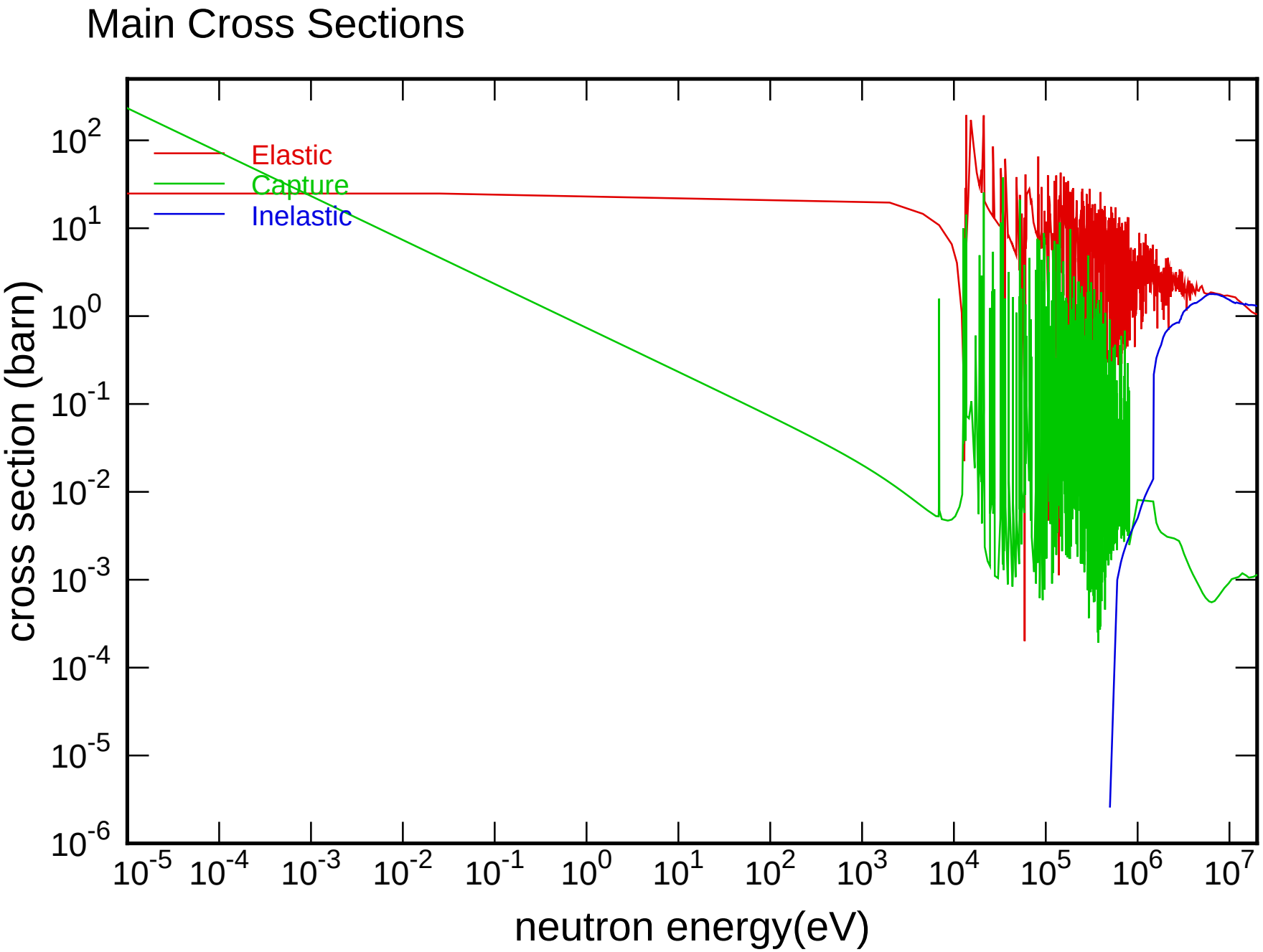
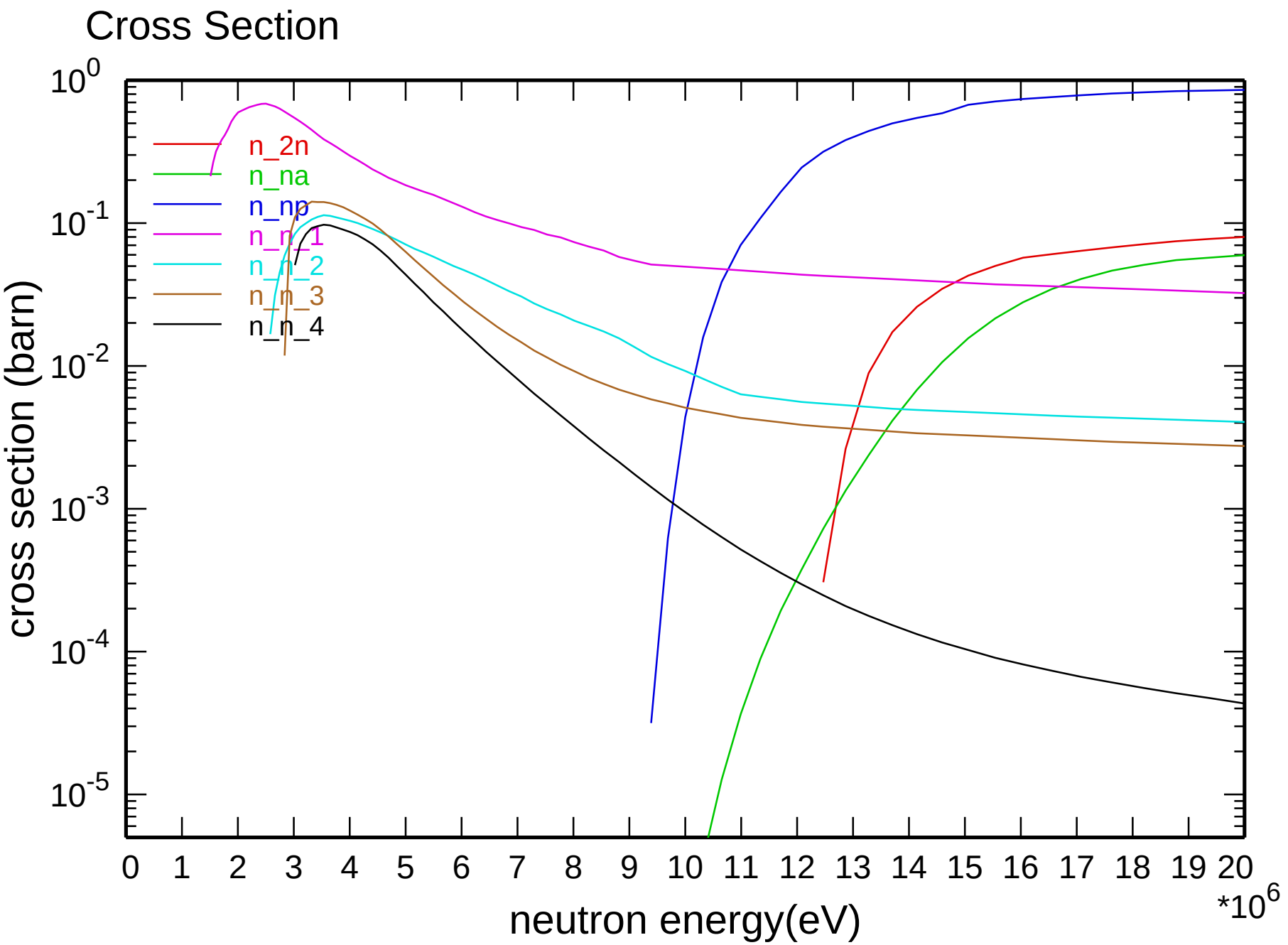
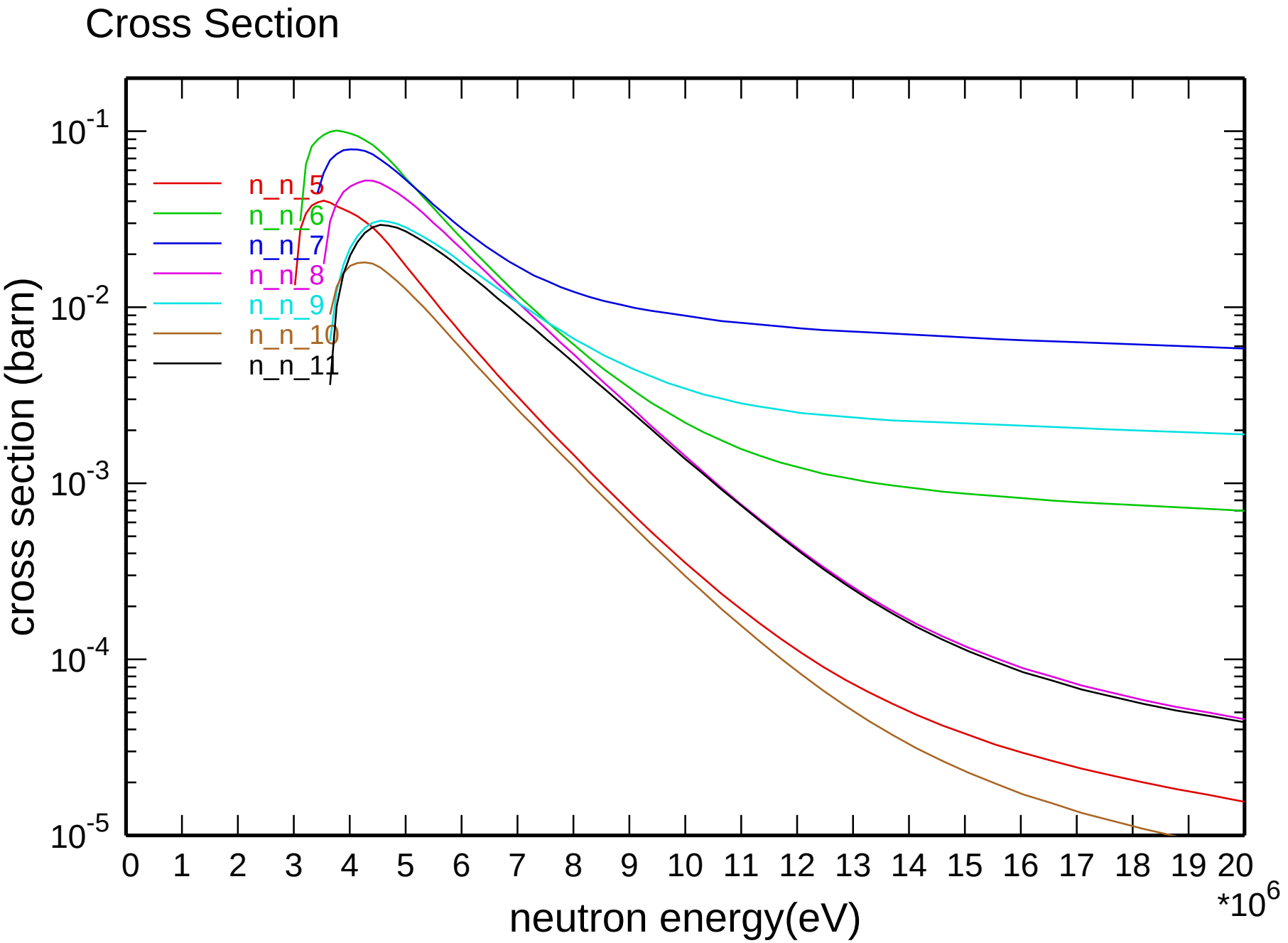
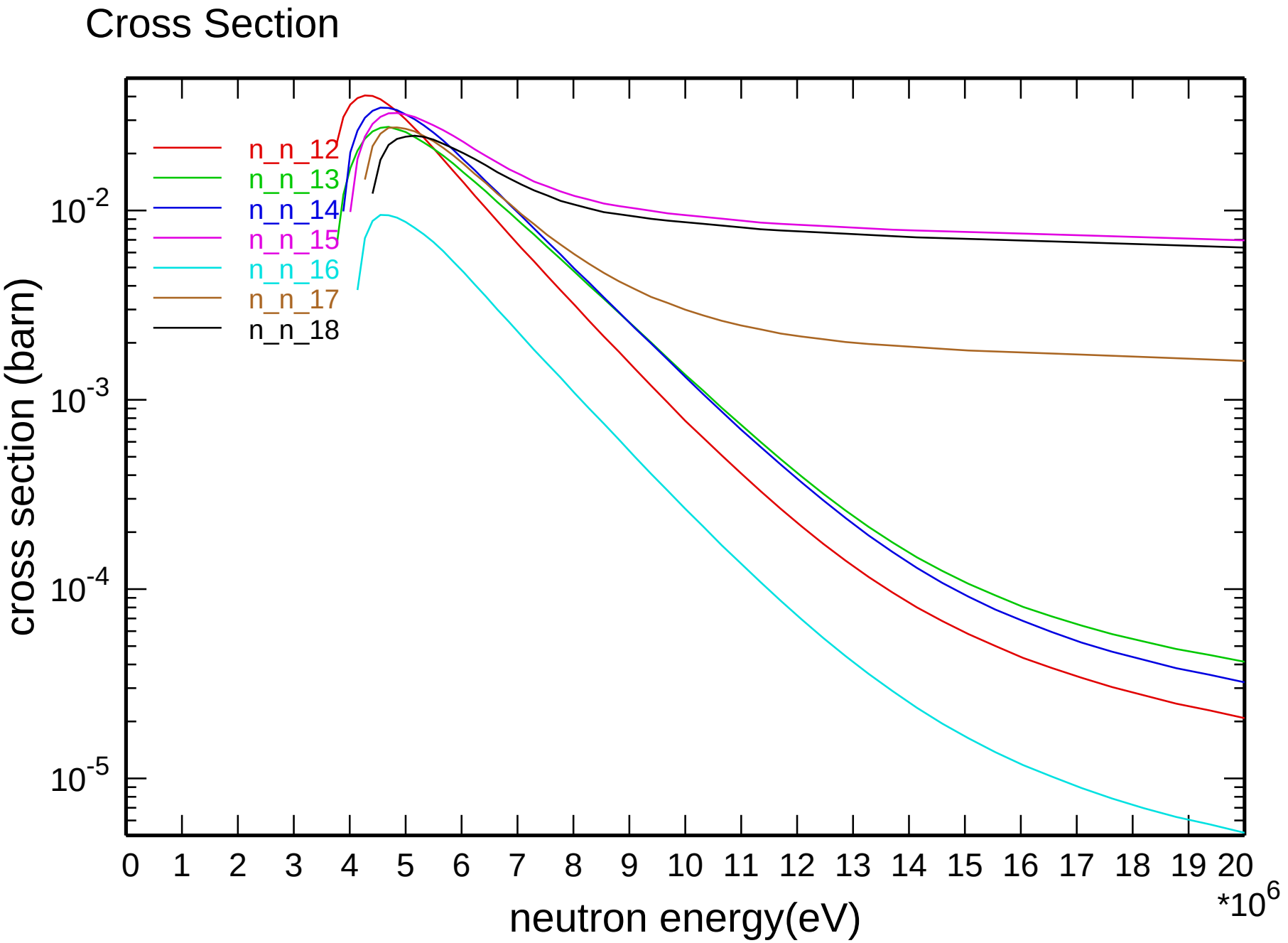
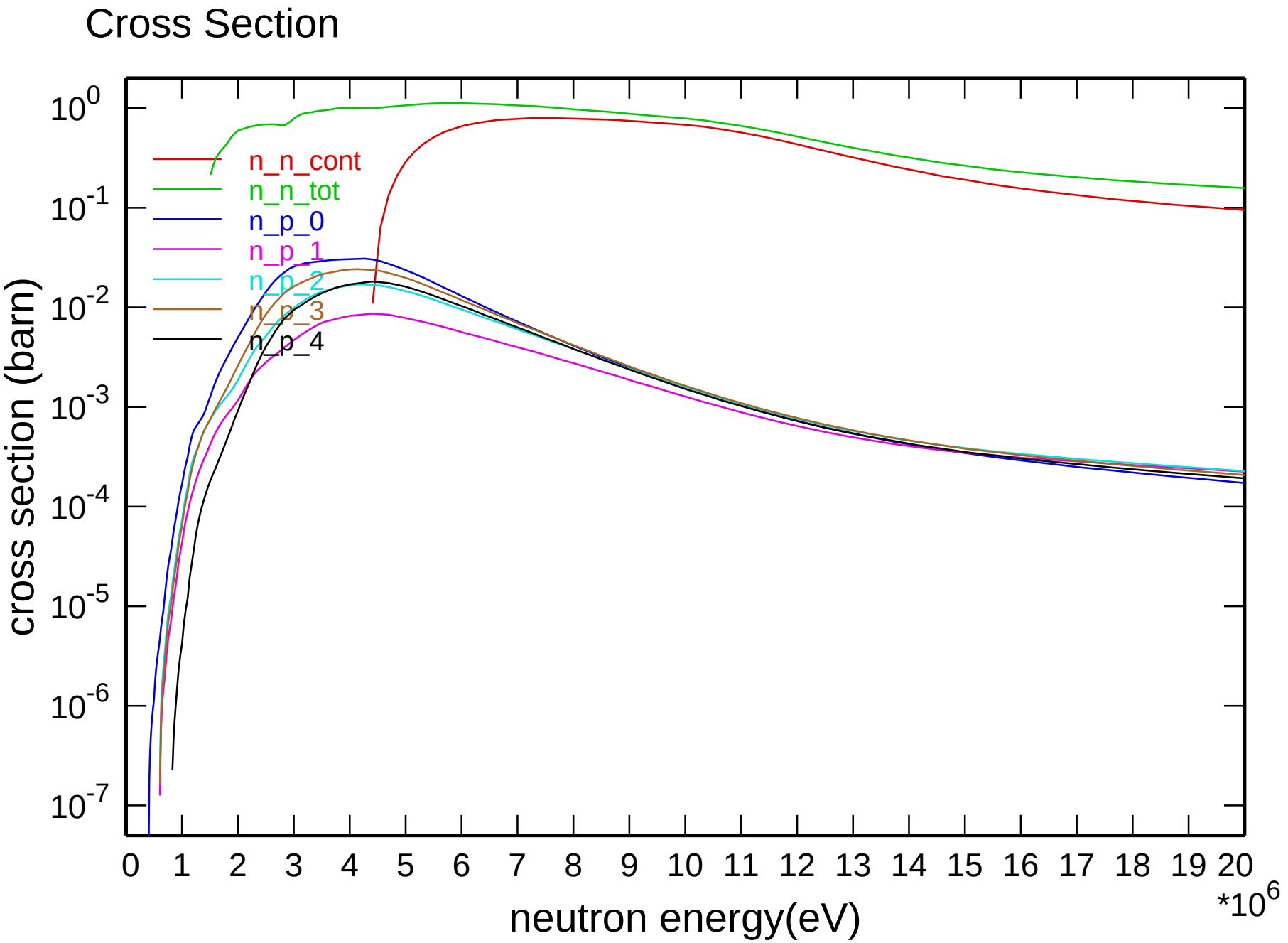
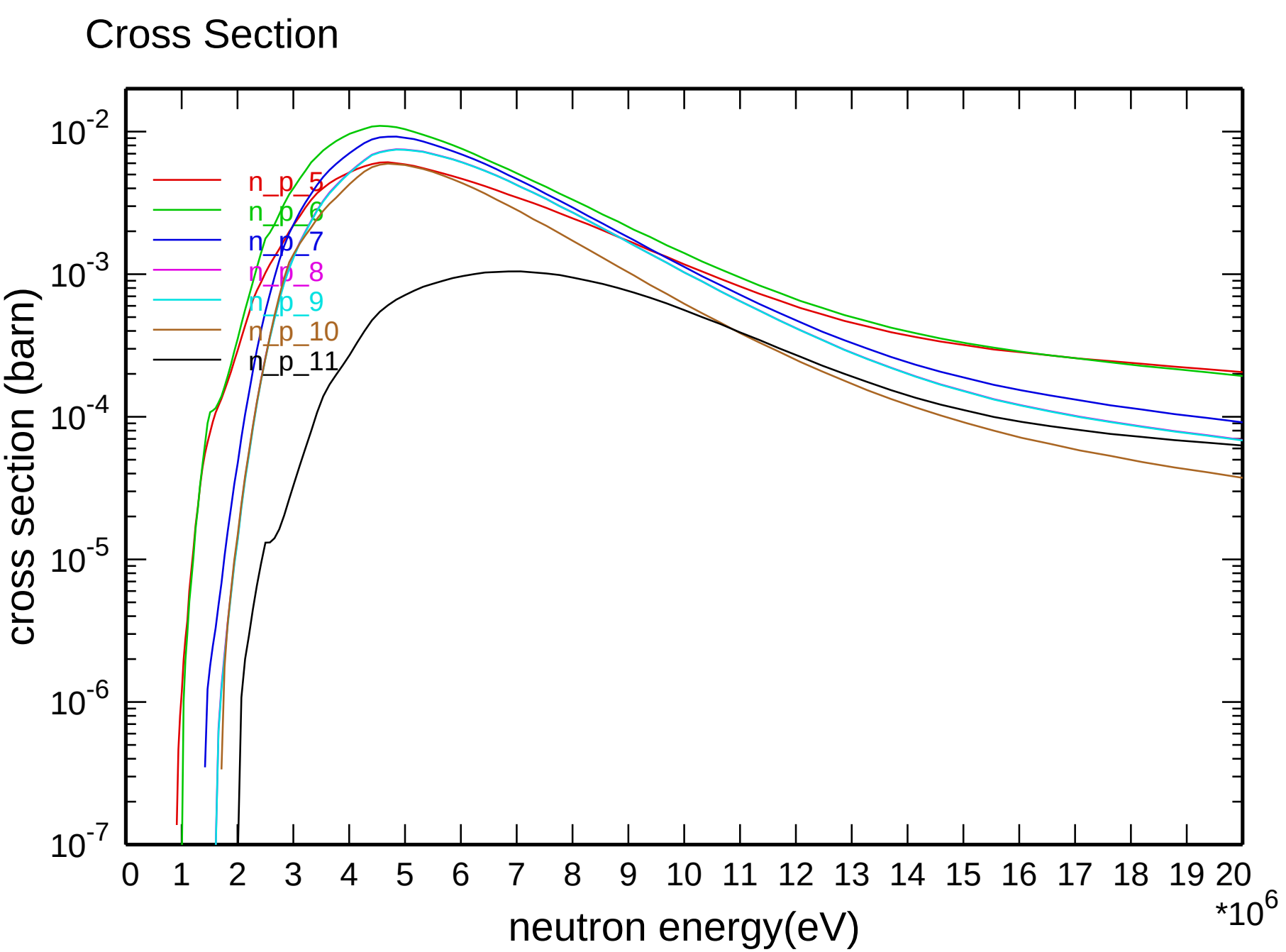

Main Cross Sections
Elastic
Capture
Inelastic
cross section (barn)
neutron energy(eV)
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7

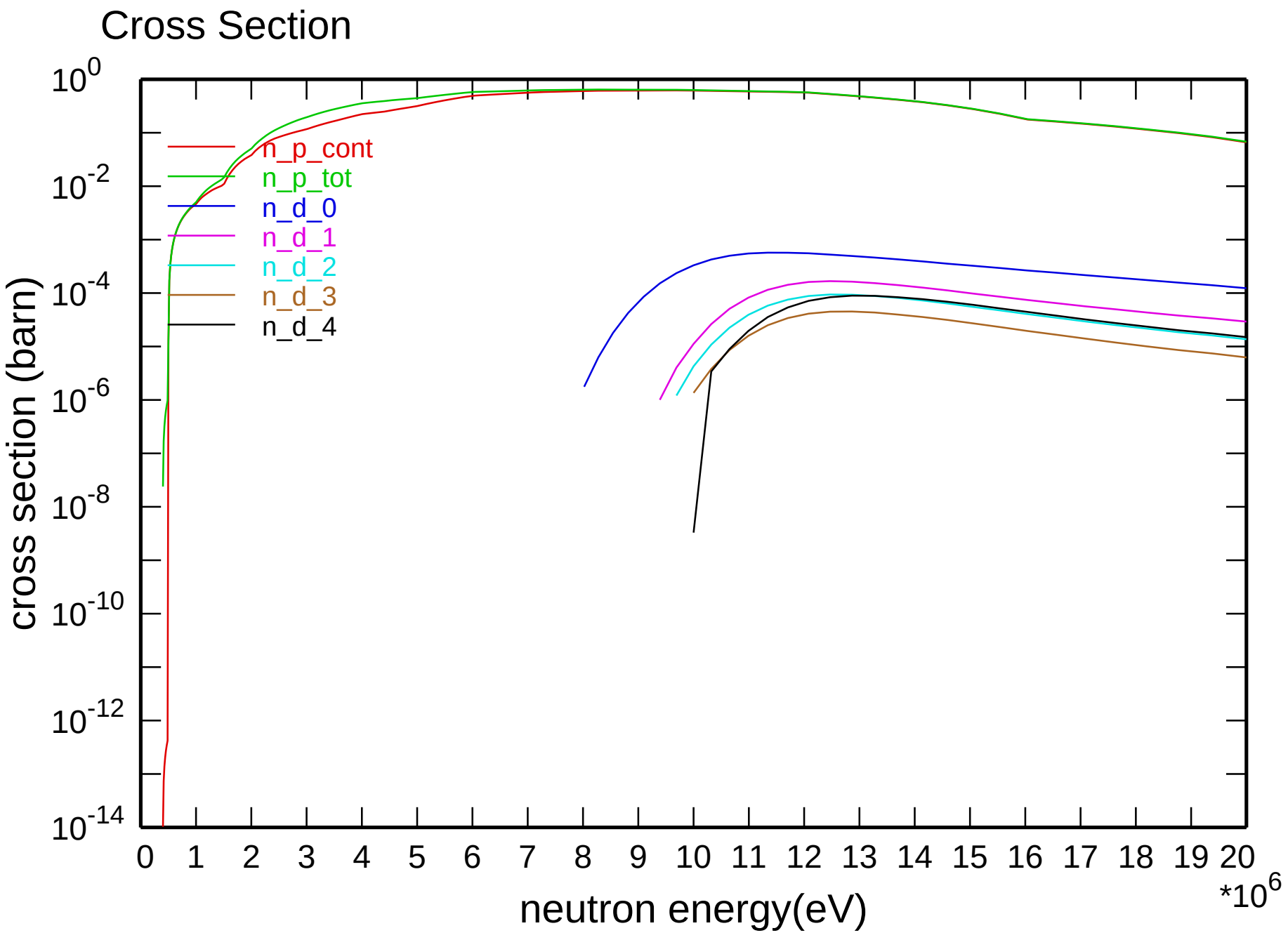

Cross Section
cross section (barn)
neutron energy(eV)
*10^6
n_2n
n_na
n_np
n_n_1
n_n_2
n_n_3
n_n_4
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

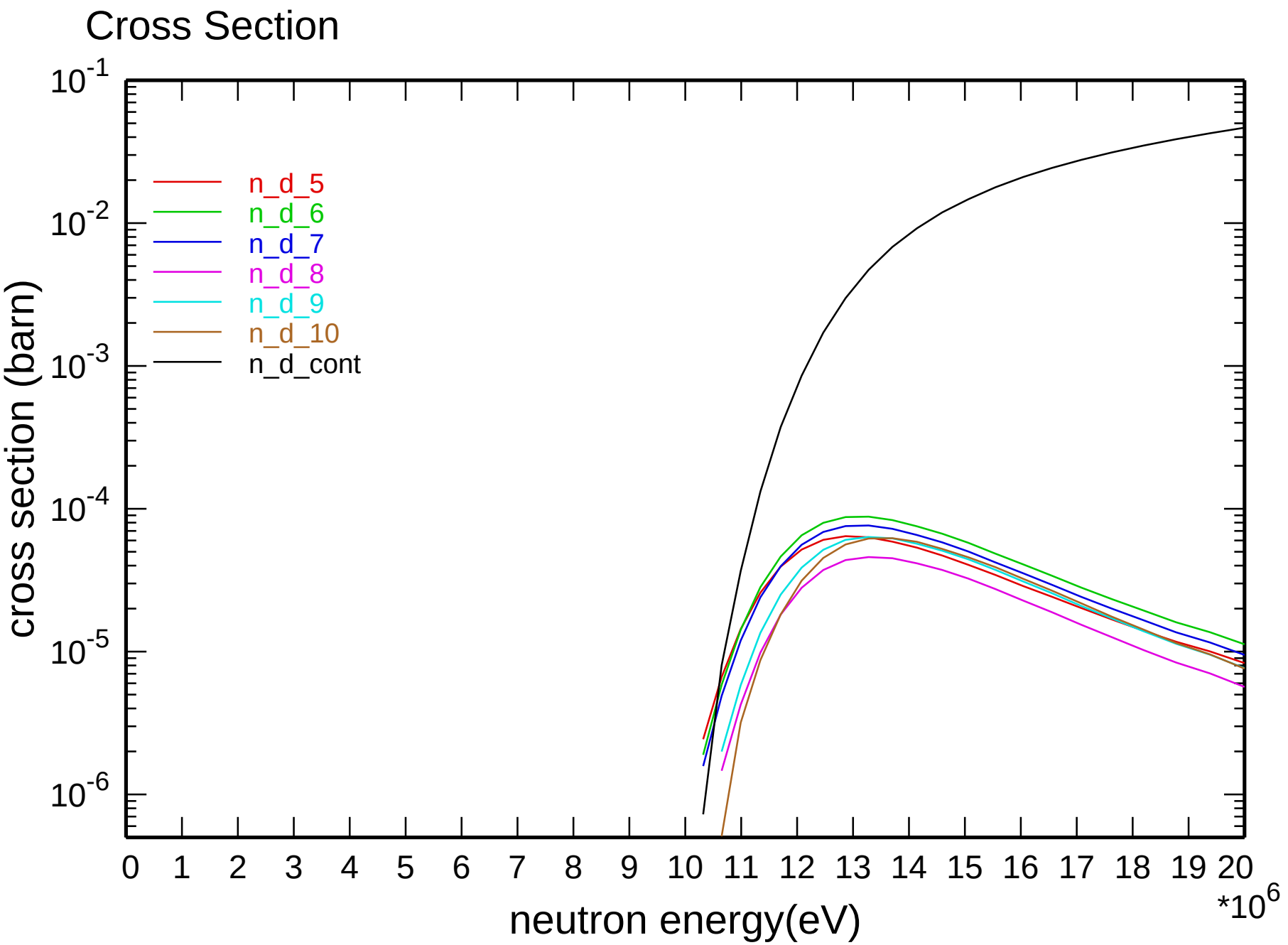

Cross Section
cross section (barn)
neutron energy(eV)
*10^6
n_n_5
n_n_6
n_n_7
n_n_8
n_n_9
n_n_10
n_n_11

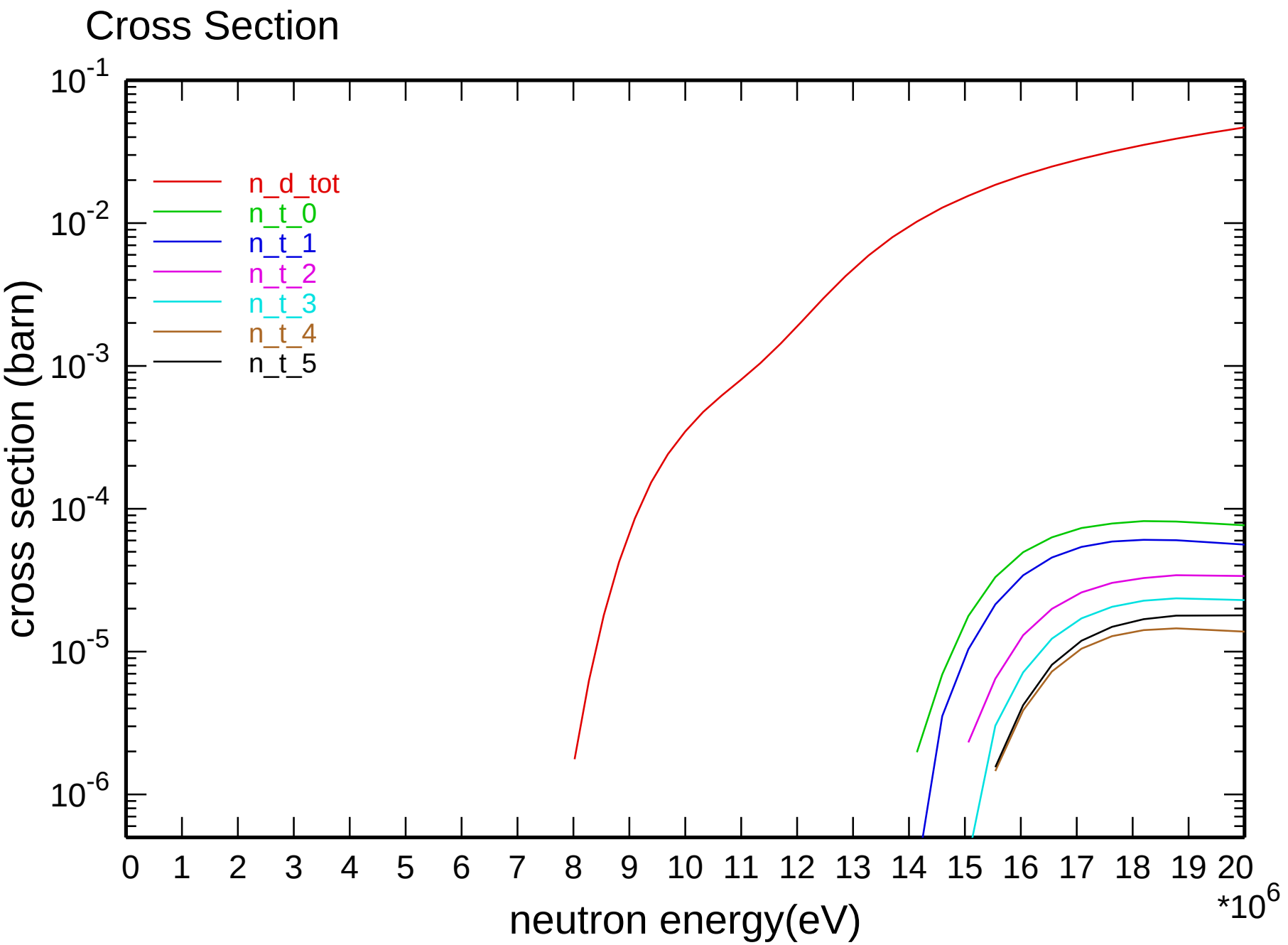

Cross Section
n_n_12
n_n_13
n_n_14
n_n_15
n_n_16
n_n_17
n_n_18
cross section (barn)
10-2
10-3
10-4
10-5
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^6
neutron energy(eV)

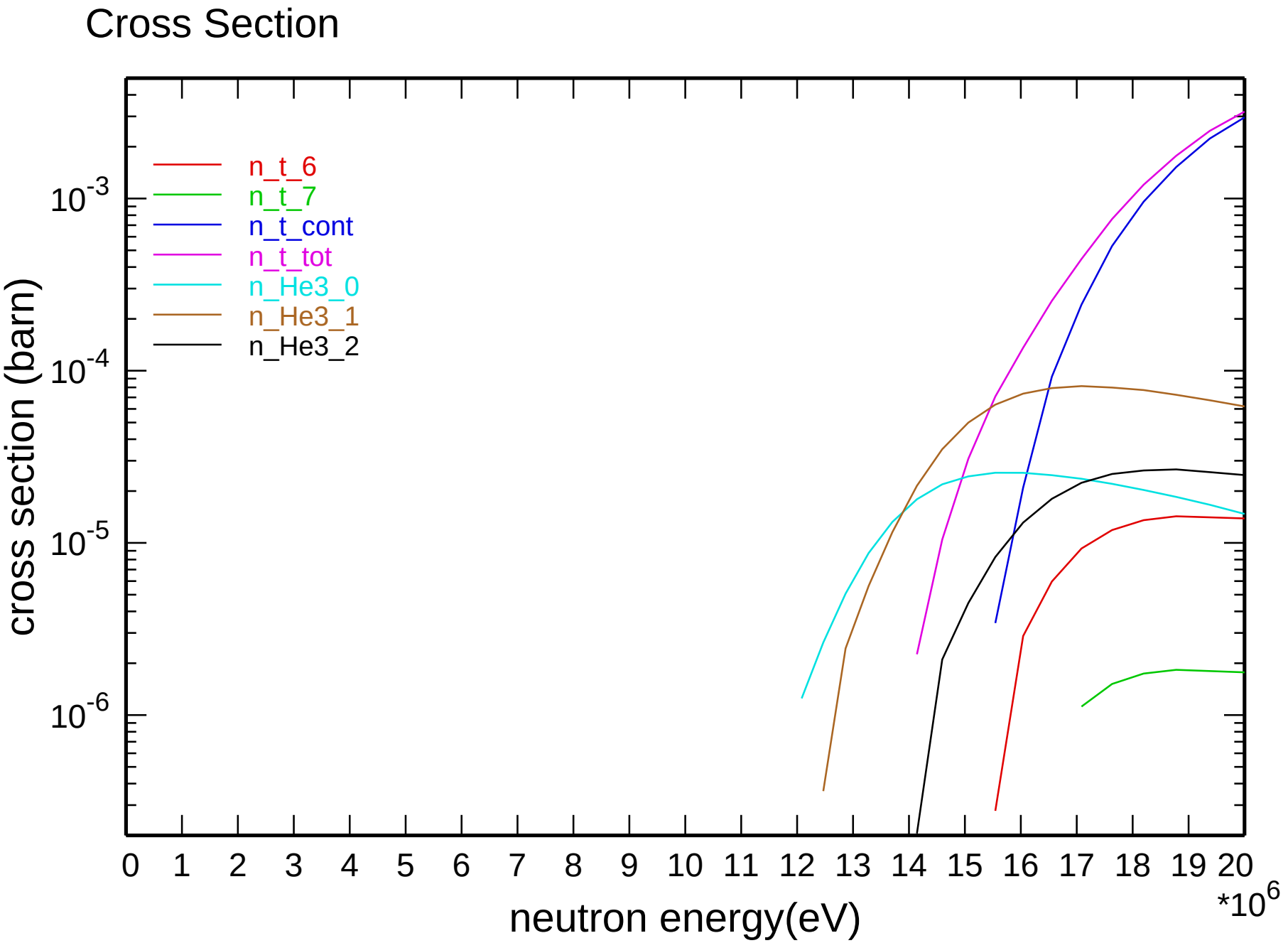

Cross Section
cross section (barn)
neutron energy(eV)
*10^6
n_n_cont
n_n_tot
n_p_0
n_p_1
n_p_2
n_p_3
n_p_4

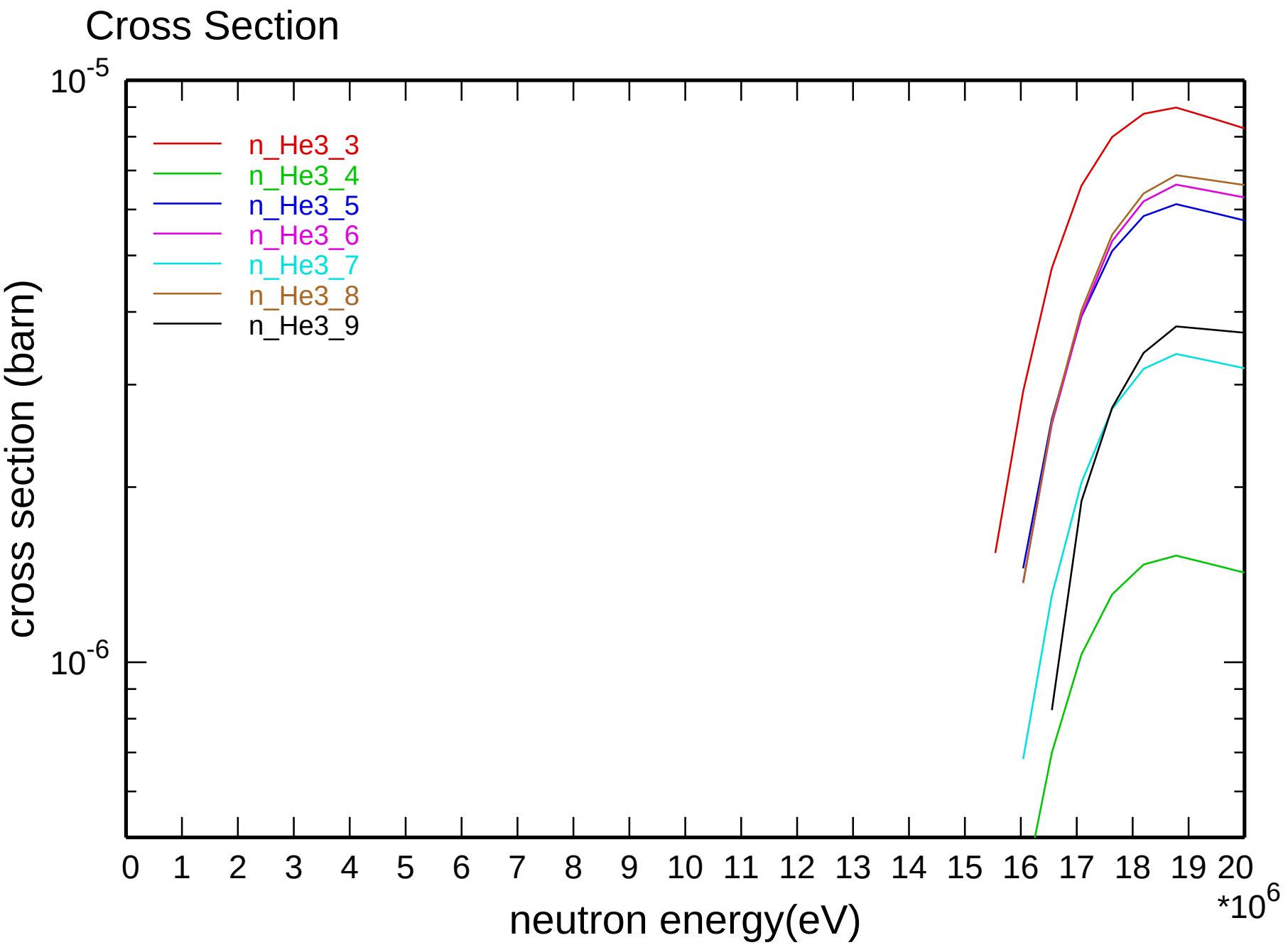

Cross Section
cross section (barn)
neutron energy(eV)
*10^6
n_p_5
n_p_6
n_p_7
n_p_8
n_p_9
n_p_10
n_p_11

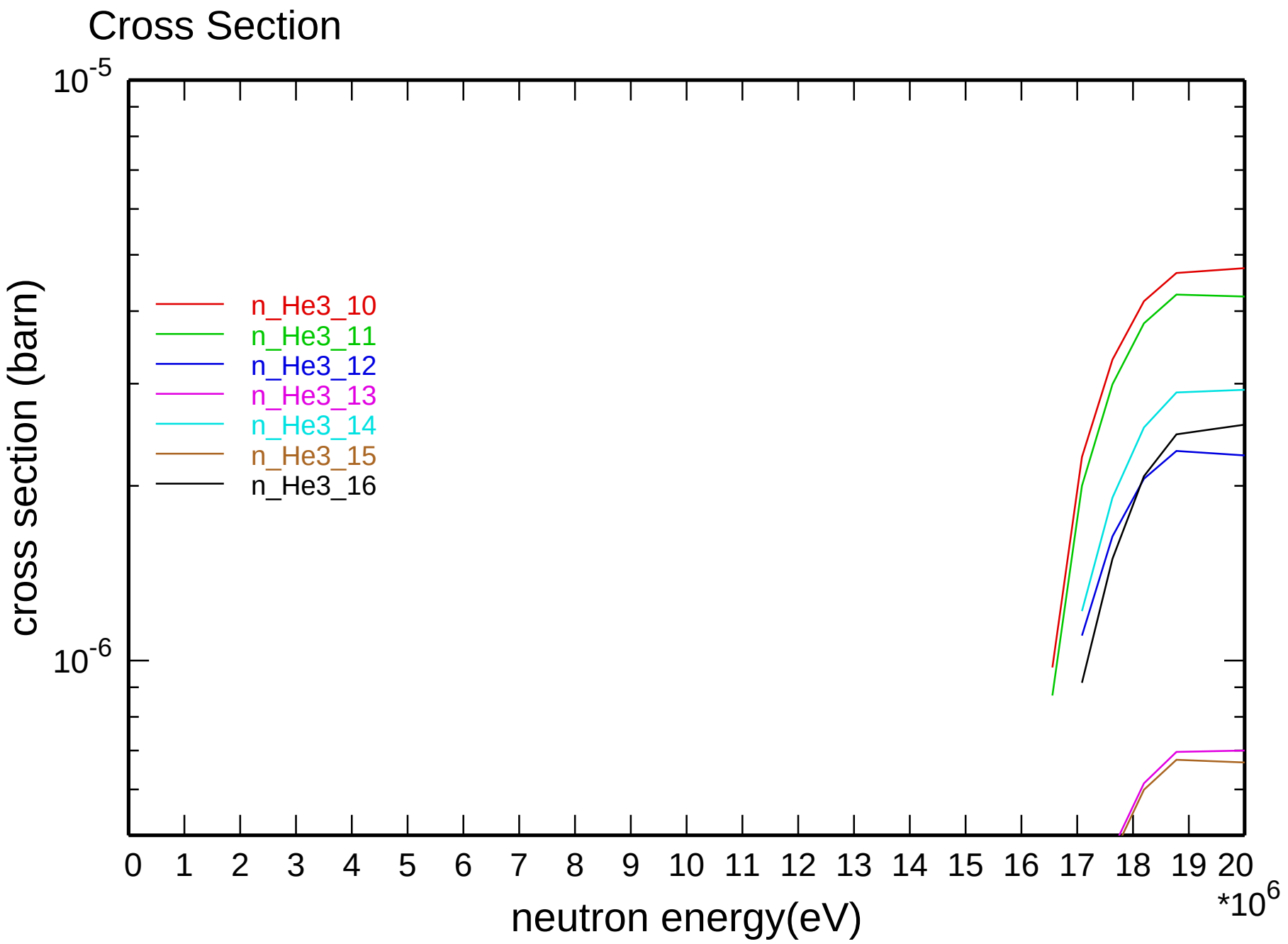

Cross Section
cross section (barn)
neutron energy(eV)
*10^6
n_p_cont
n_p_tot
n_d_0
n_d_1
n_d_2
n_d_3
n_d_4
10^0
10^-2
10^-4
10^-6
10^-8
10^-10
10^-12
10^-14
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

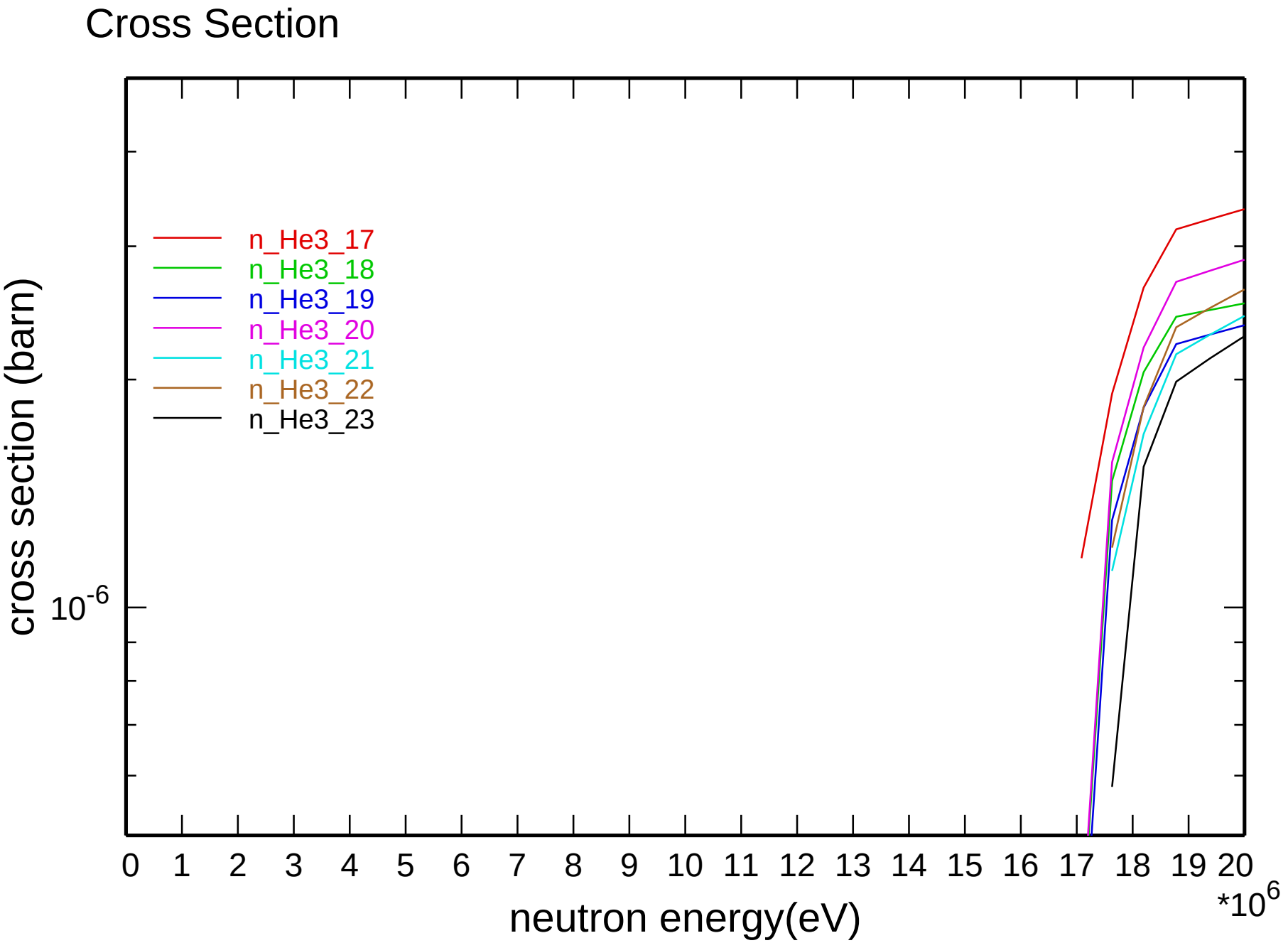

Cross Section
cross section (barn)
neutron energy(eV)
*10^6
n_d_5
n_d_6
n_d_7
n_d_8
n_d_9
n_d_10
n_d_cont

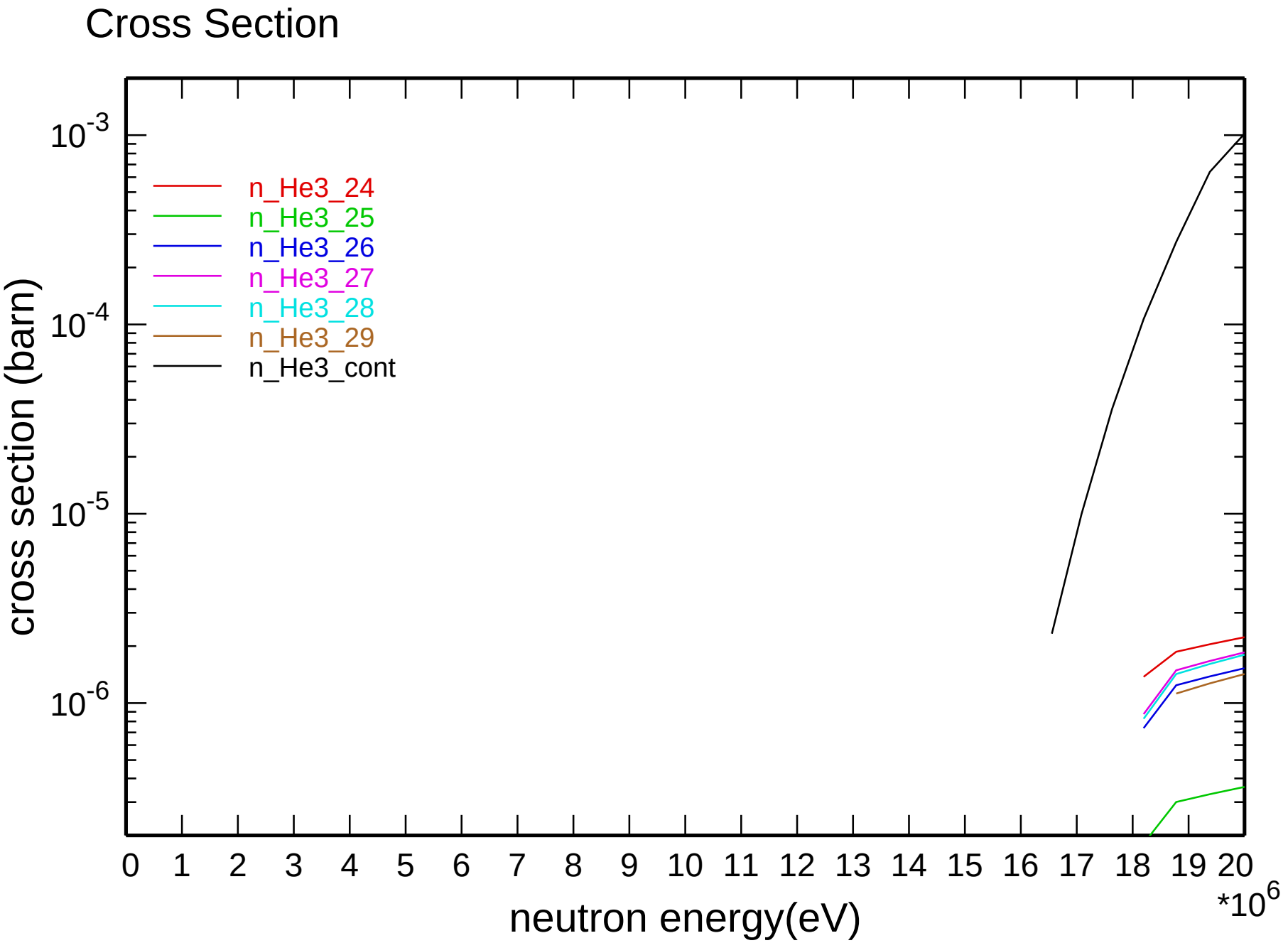

Cross Section
cross section (barn)
neutron energy(eV)
*10^6
n_d_tot
n_t_0
n_t_1
n_t_2
n_t_3
n_t_4
n_t_5
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

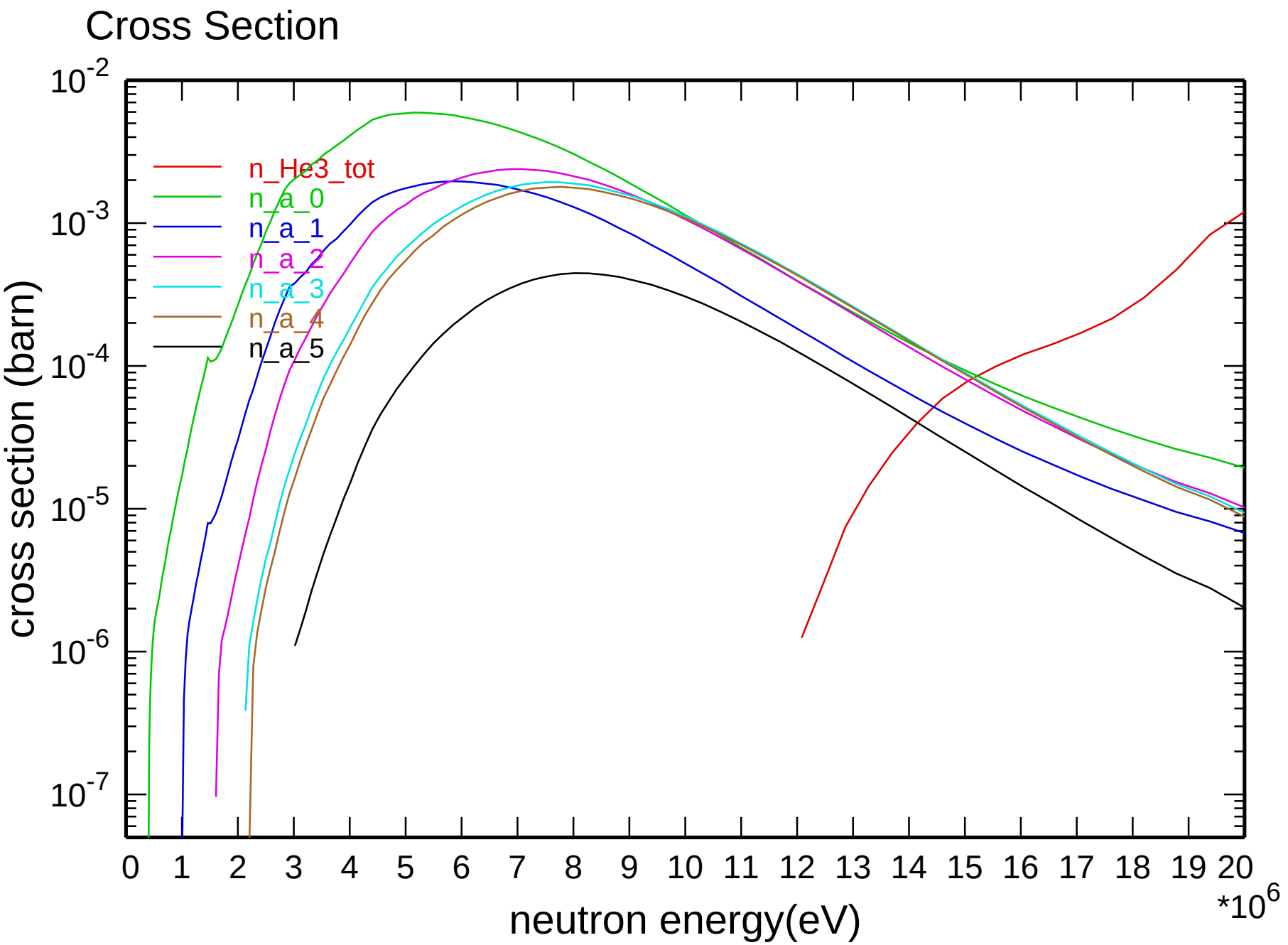

Cross Section
n_t_6
n_t_7
n_t_cont
n_t_tot
n_He3_0
n_He3_1
n_He3_2
cross section (barn)
10-3
10-4
10-5
10-6
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^6
neutron energy(eV)

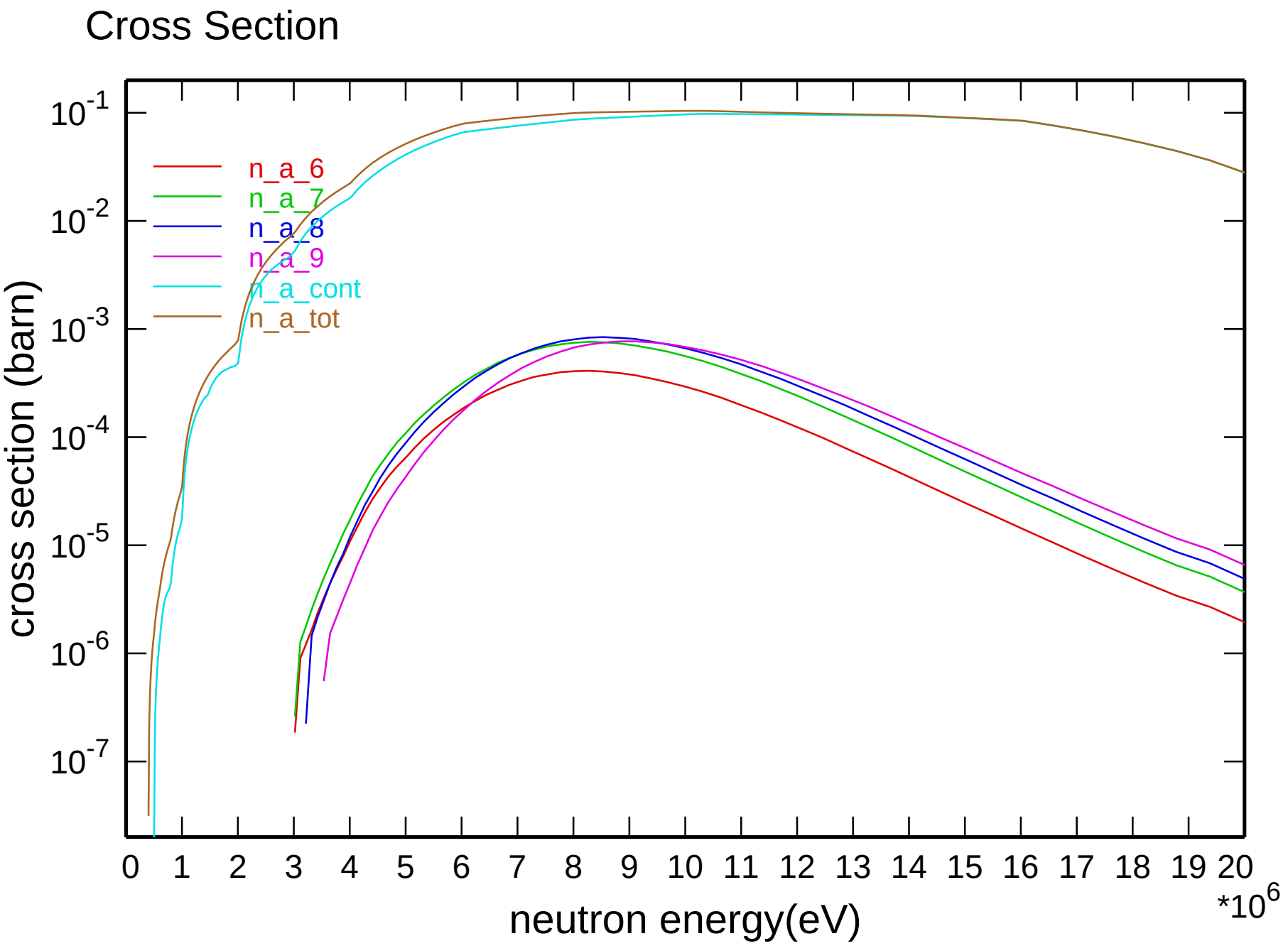

Cross Section
10^{-5}
10^{-6}
cross section (barn)
n_He3_3
n_He3_4
n_He3_5
n_He3_6
n_He3_7
n_He3_8
n_He3_9
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^{6}
neutron energy(eV)

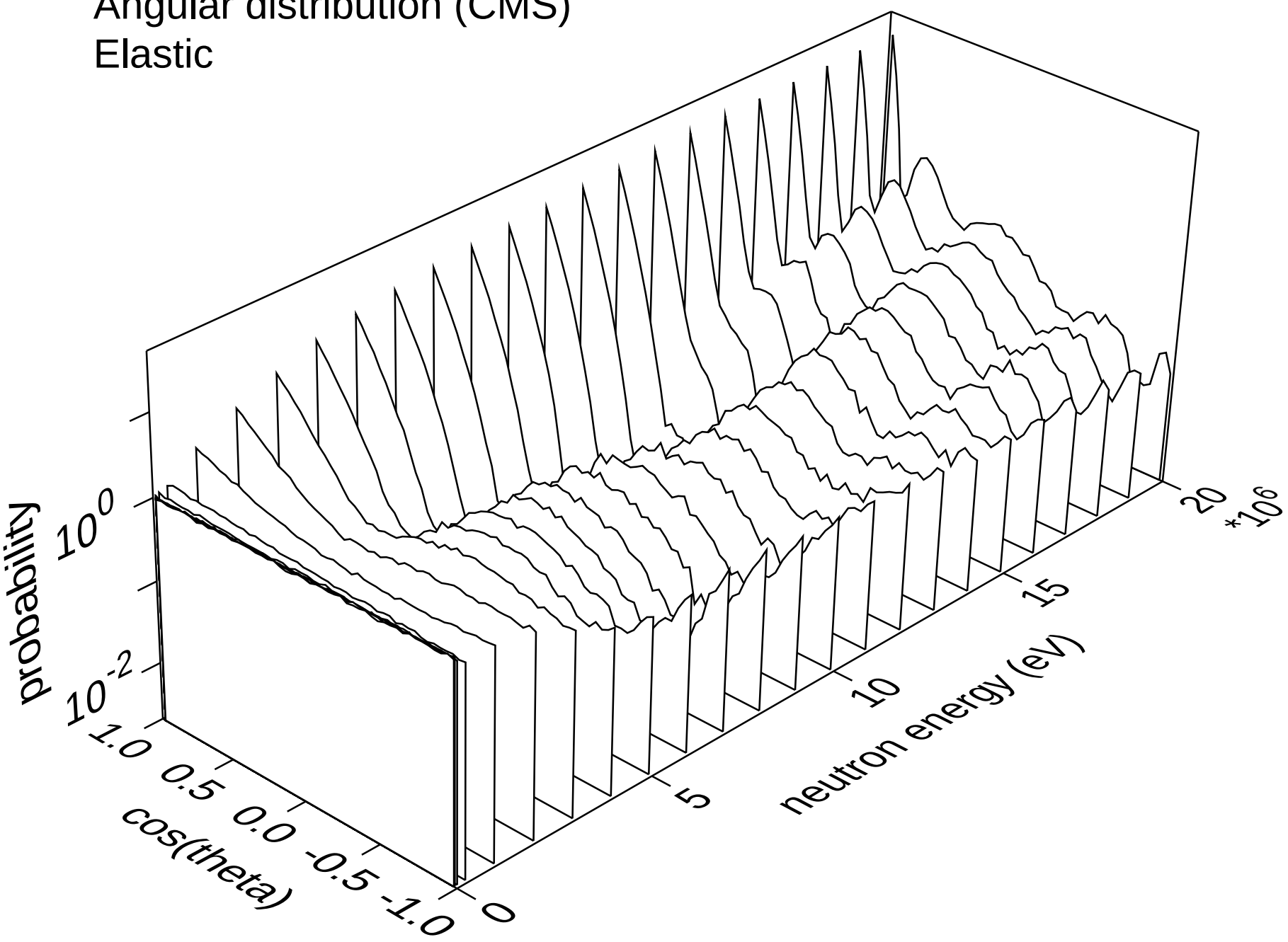

Cross Section
cross section (barn)
10-5
10-6
n_He3_10
n_He3_11
n_He3_12
n_He3_13
n_He3_14
n_He3_15
n_He3_16
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^6
neutron energy(eV)

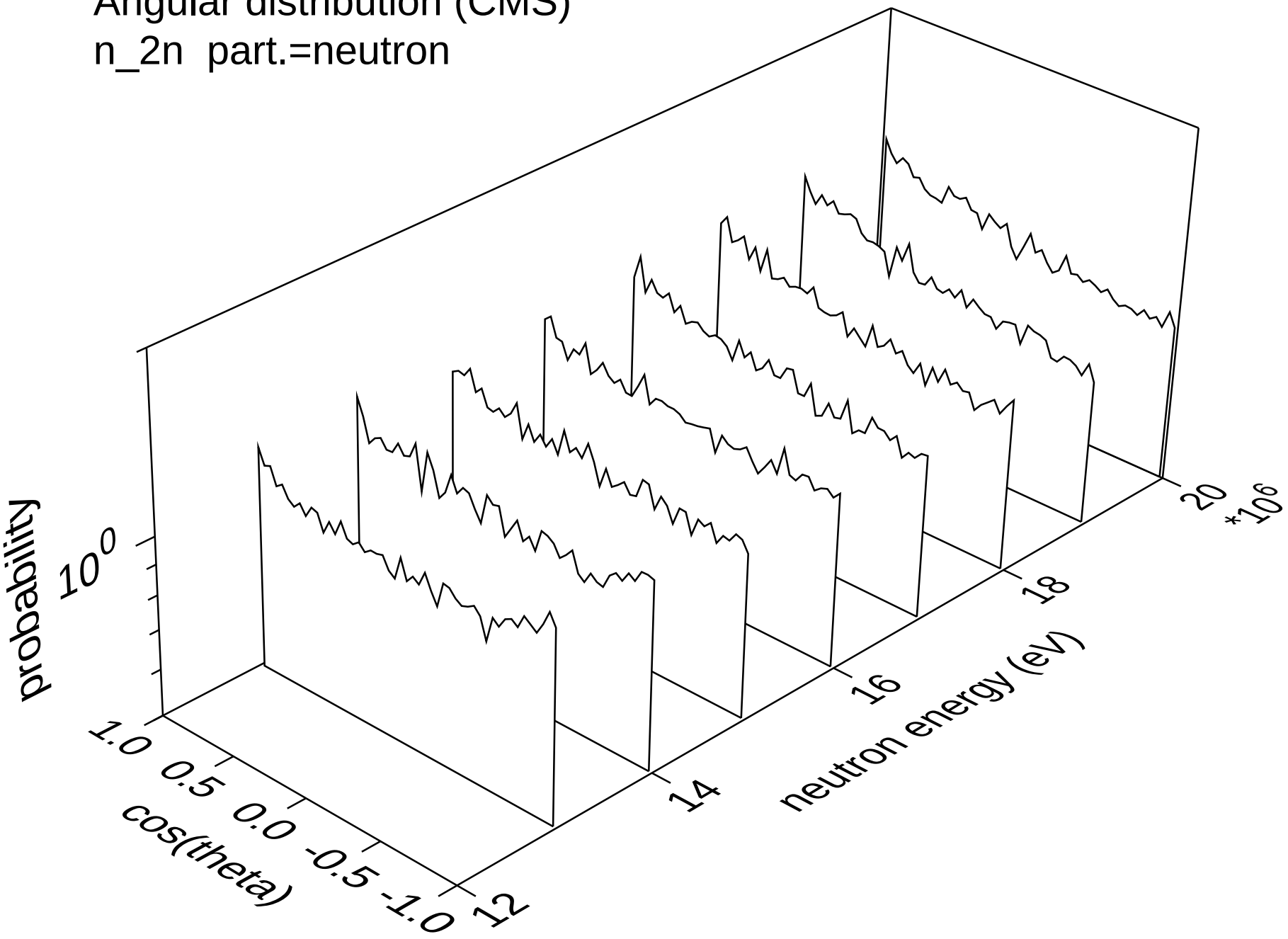

Cross Section
n_He3_17
n_He3_18
n_He3_19
n_He3_20
n_He3_21
n_He3_22
n_He3_23
cross section (barn)
10-6
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^6
neutron energy(eV)

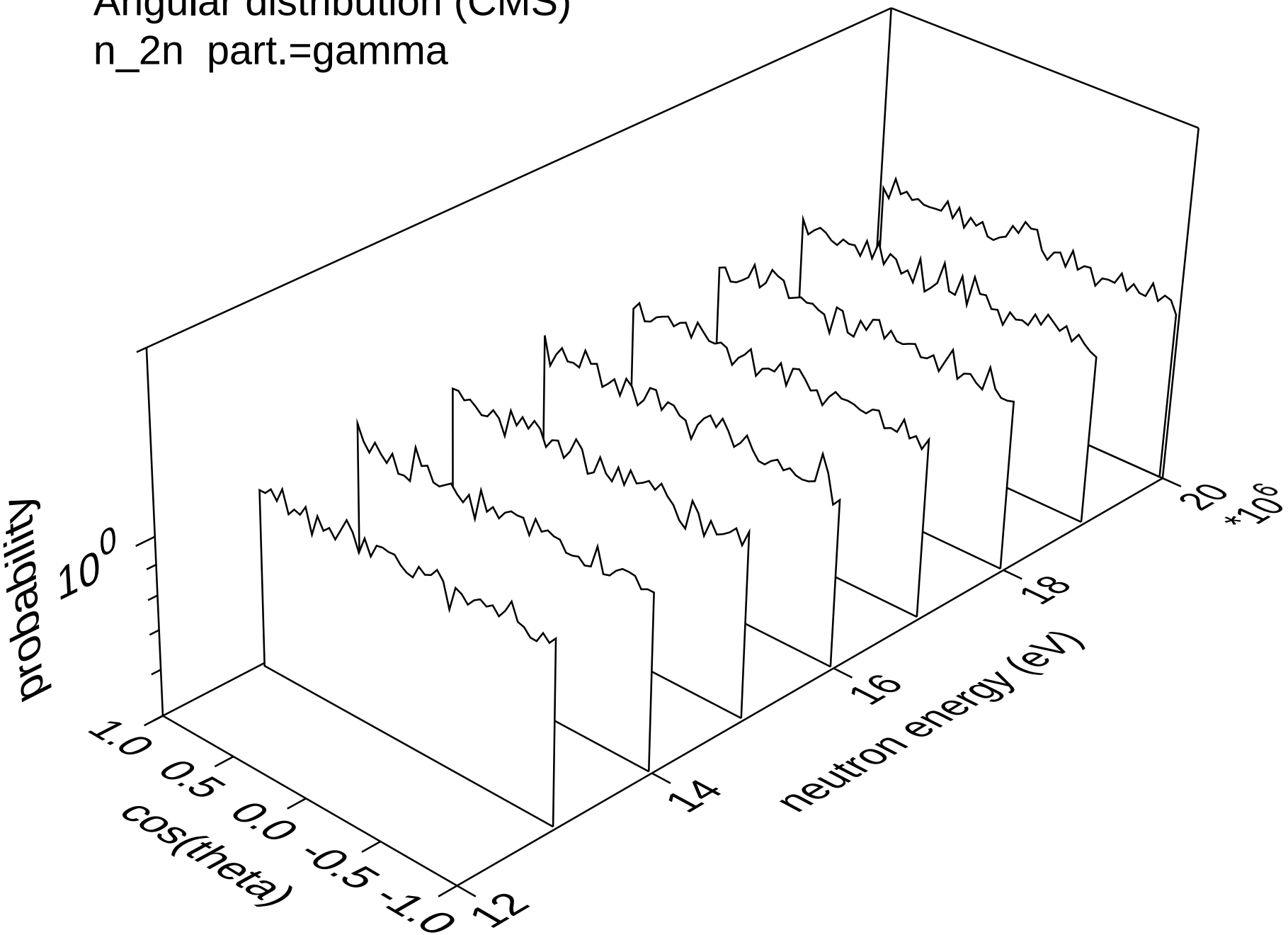

Cross Section
cross section (barn)
10-3
10-4
10-5
10-6
n_He3_24
n_He3_25
n_He3_26
n_He3_27
n_He3_28
n_He3_29
n_He3_cont
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^6
neutron energy(eV)

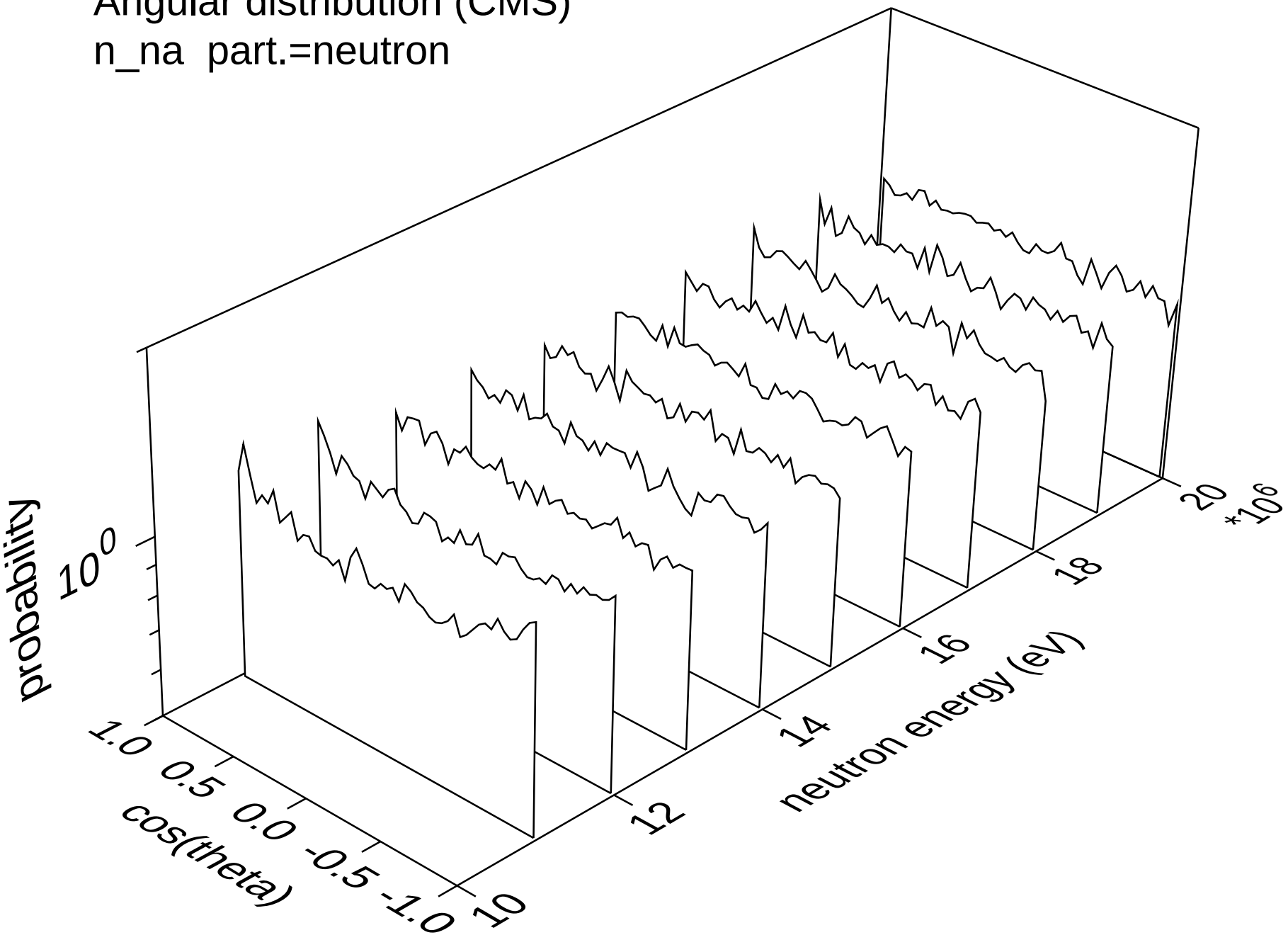

Cross Section
cross section (barn)
neutron energy(eV)
*10^6
n_He3_tot
n_a_0
n_a_1
n_a_2
n_a_3
n_a_4
n_a_5

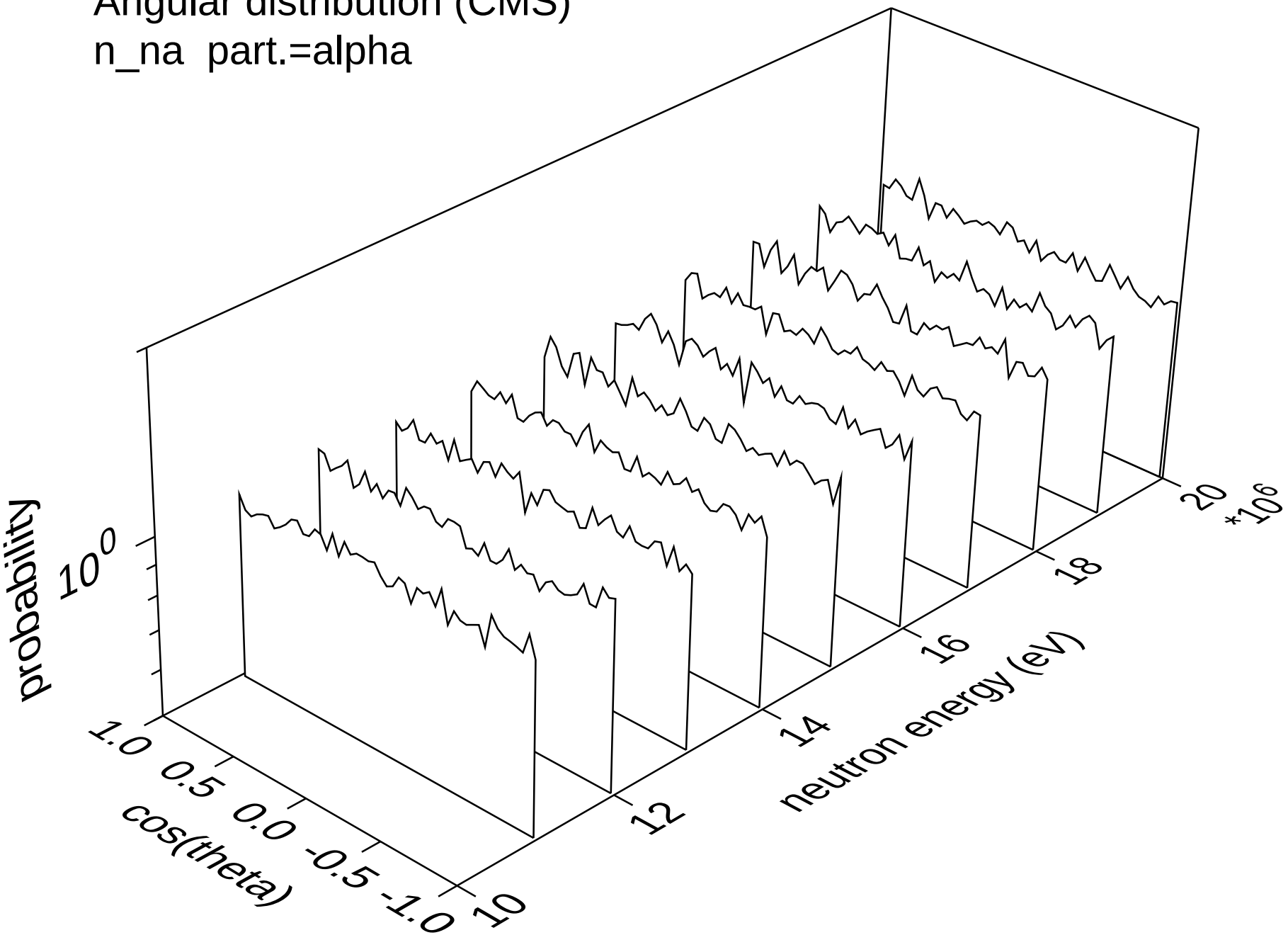

Cross Section
cross section (barn)
10-1
10-2
10-3
10-4
10-5
10-6
10-7
n_a_6
n_a_7
n_a_8
n_a_9
n_a_cont
n_a_tot
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^6
neutron energy(eV)

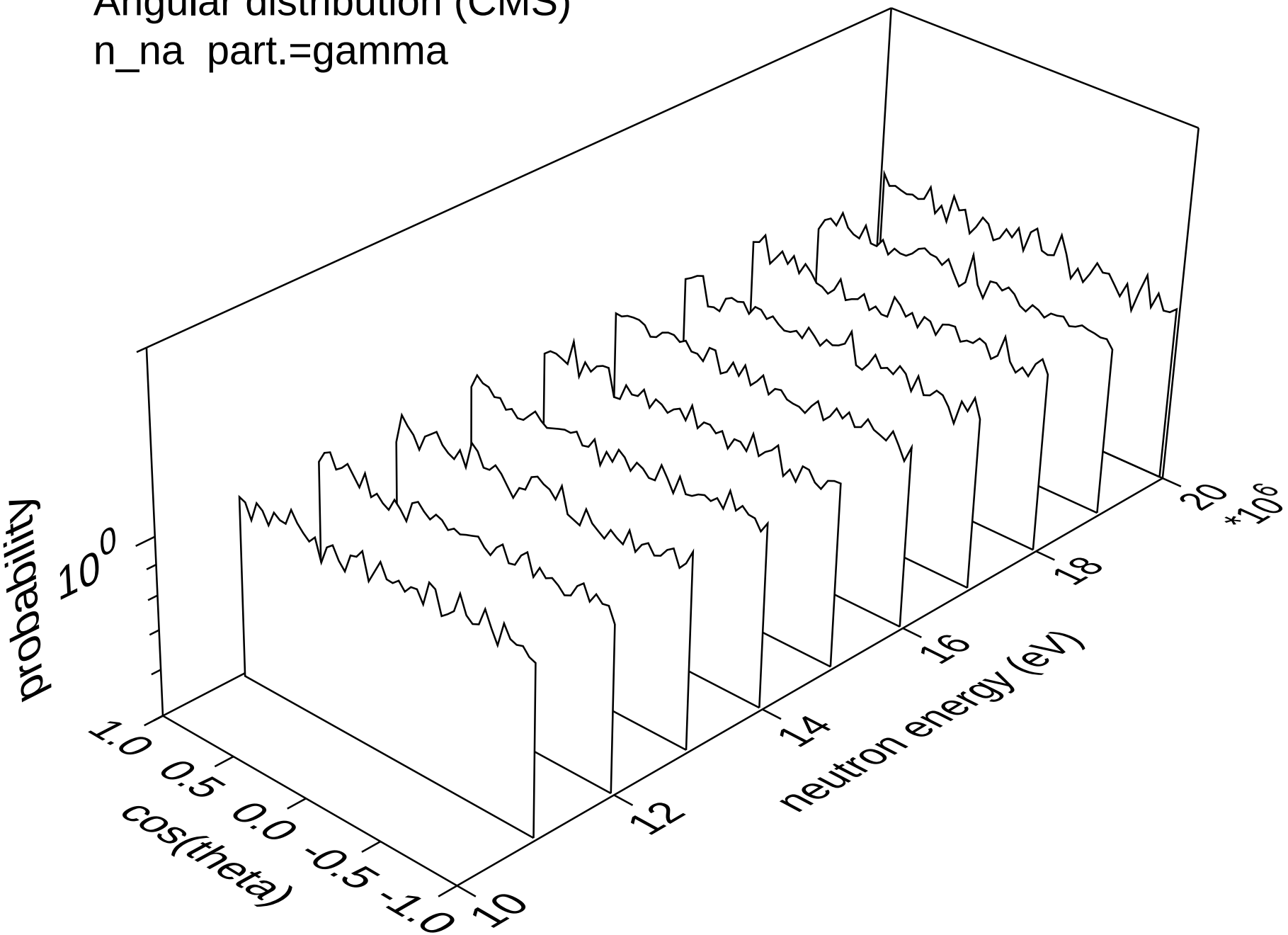

Angular distribution (CMS)
Elastic
probability
10^{0}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

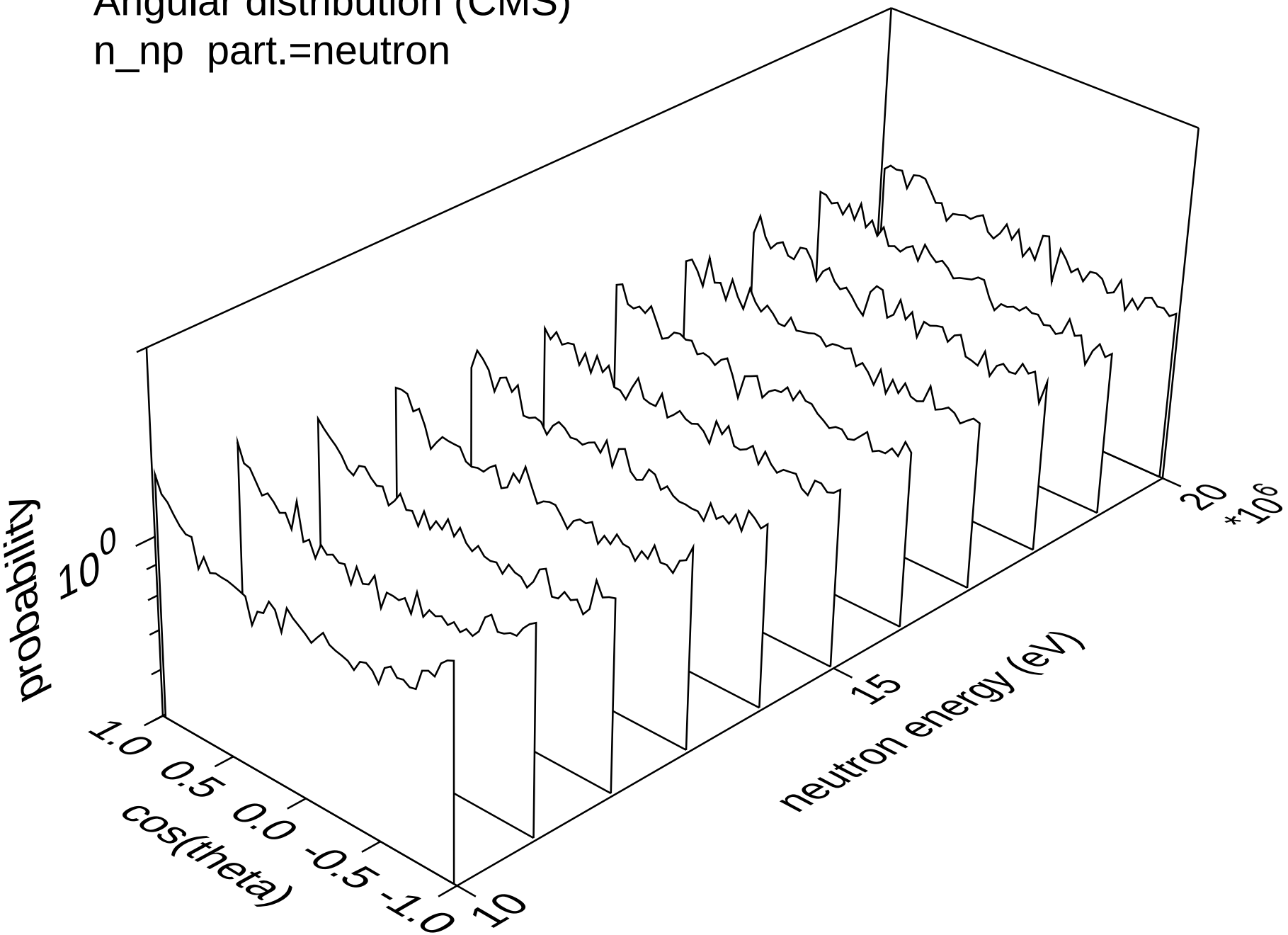

Angular distribution (CMS)
n_2n part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
12
14
16
18
20
*10^6
neutron energy (eV)

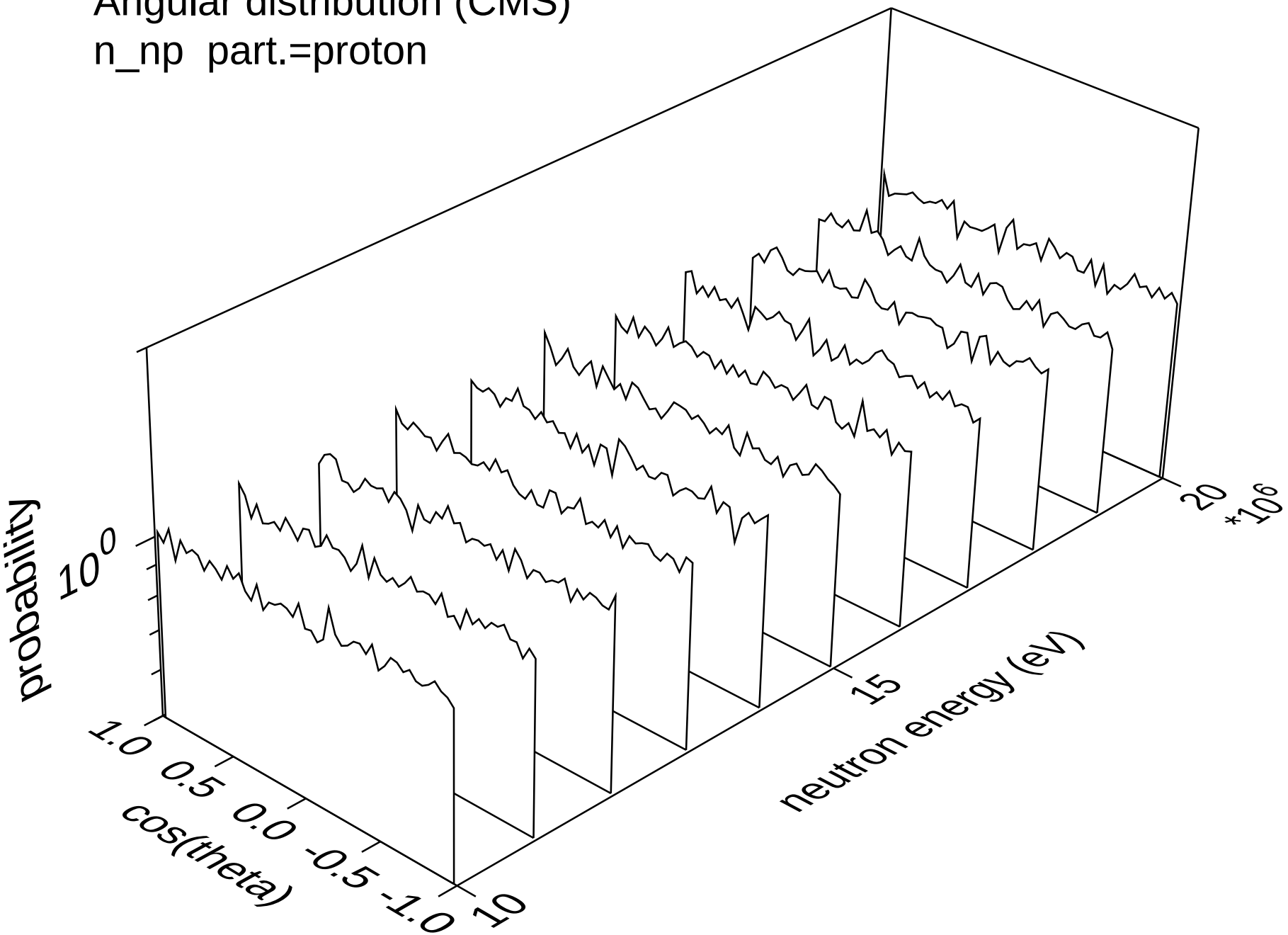

Angular distribution (CMS)
n_2n part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
12
14
16
18
20
*10^6
neutron energy (eV)

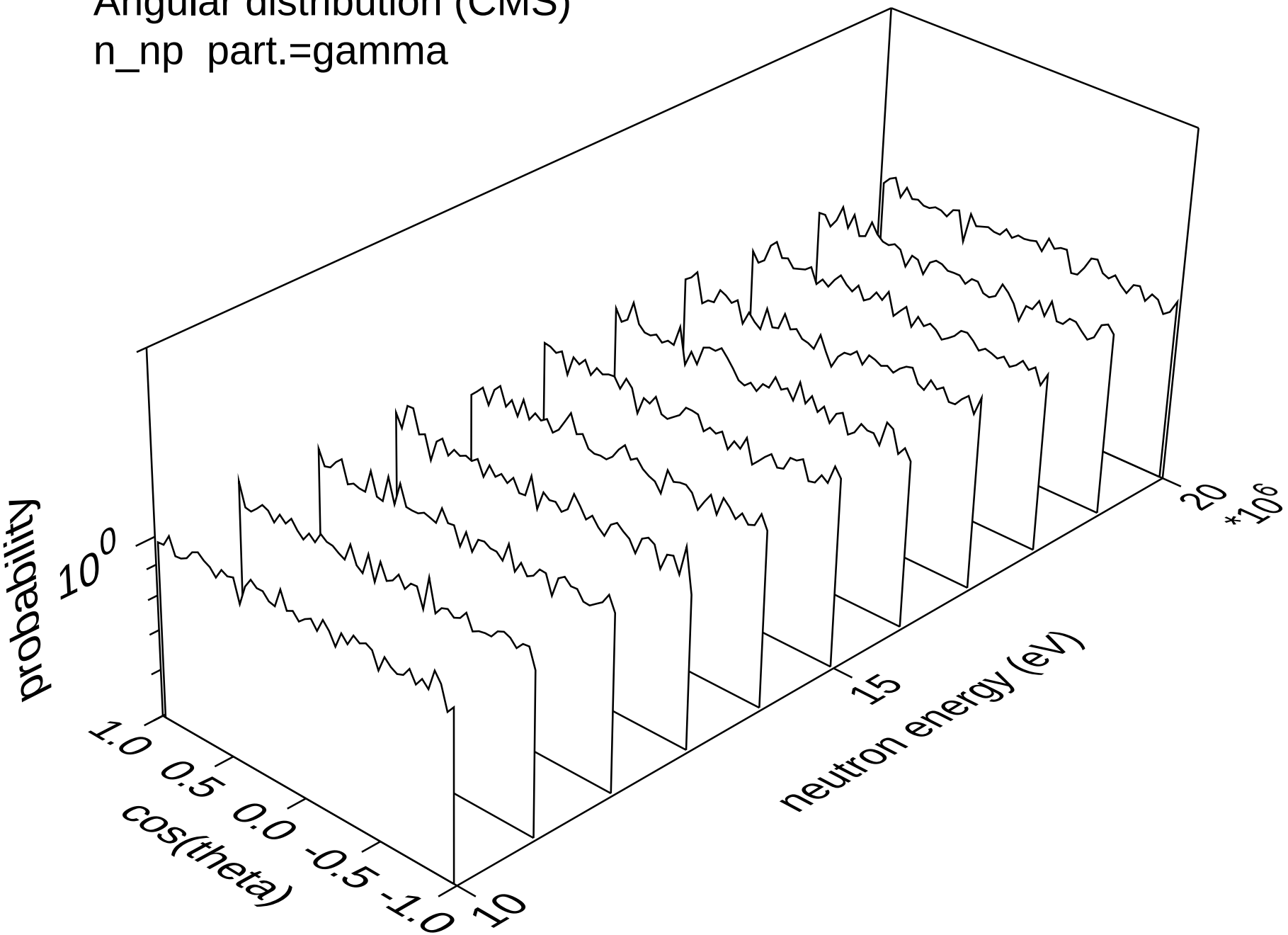

Angular distribution (CMS)
n_na part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

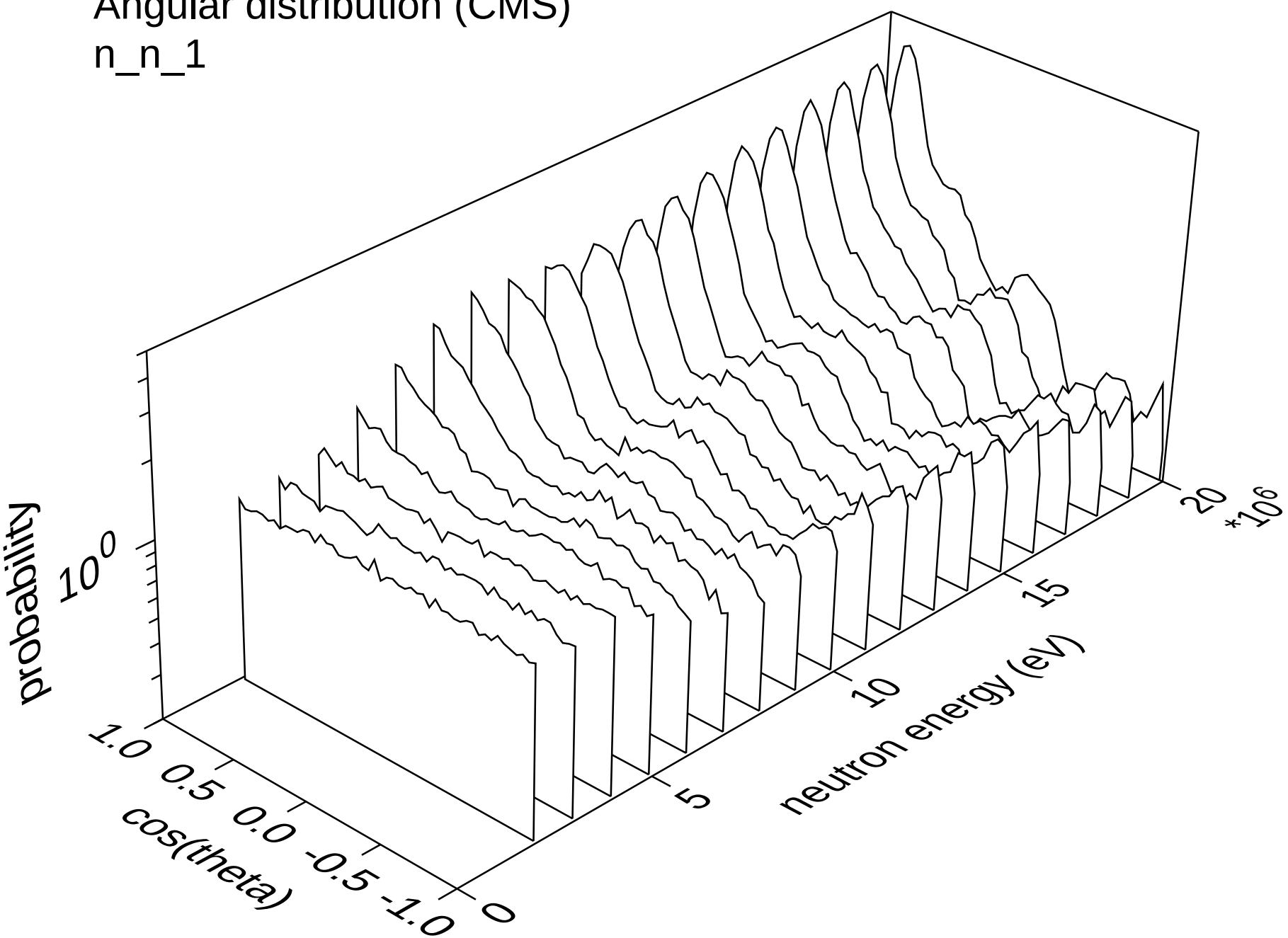

Angular distribution (CMS)
n_na part.=alpha
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

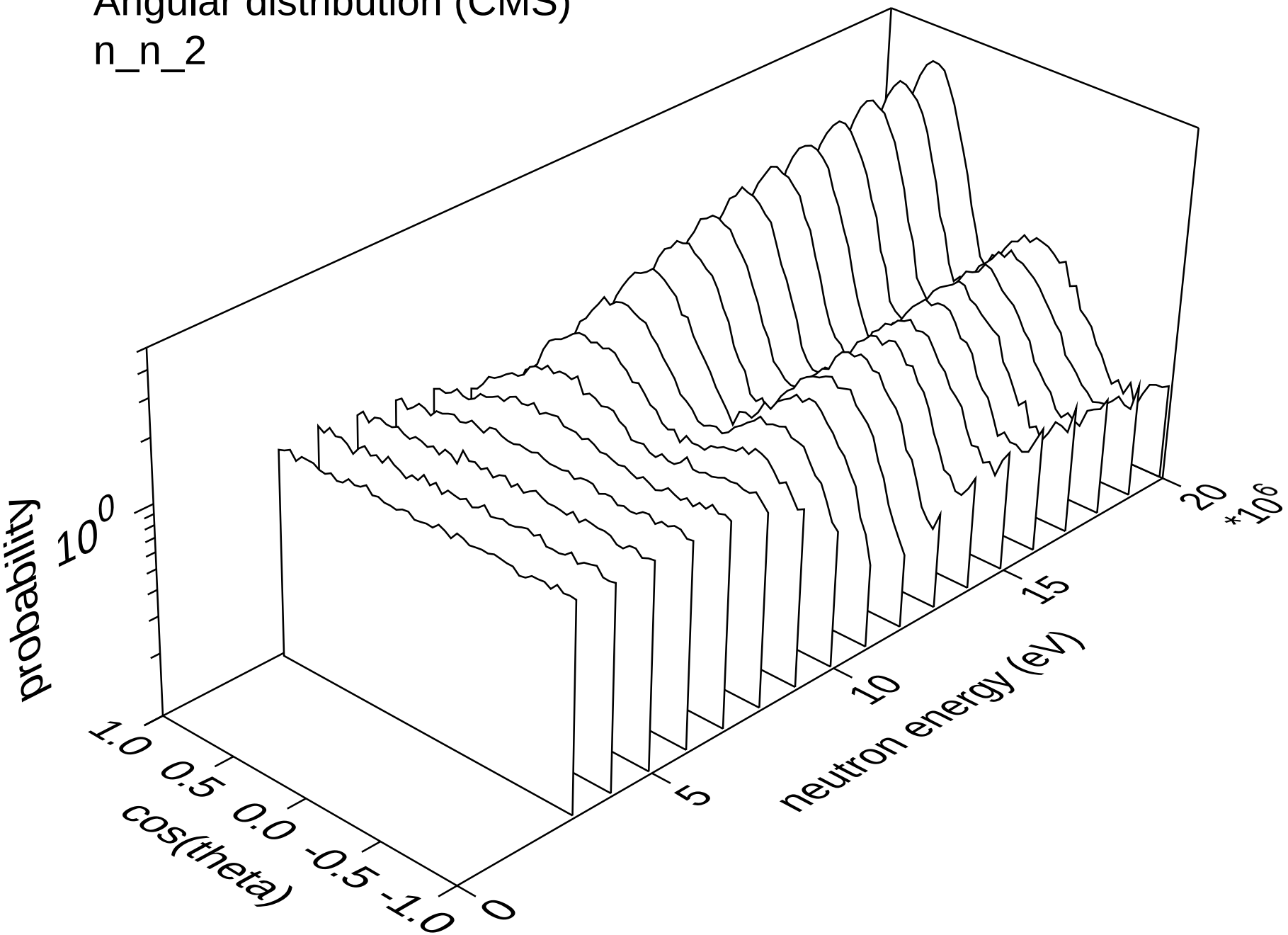

Angular distribution (CMS)
n_na part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

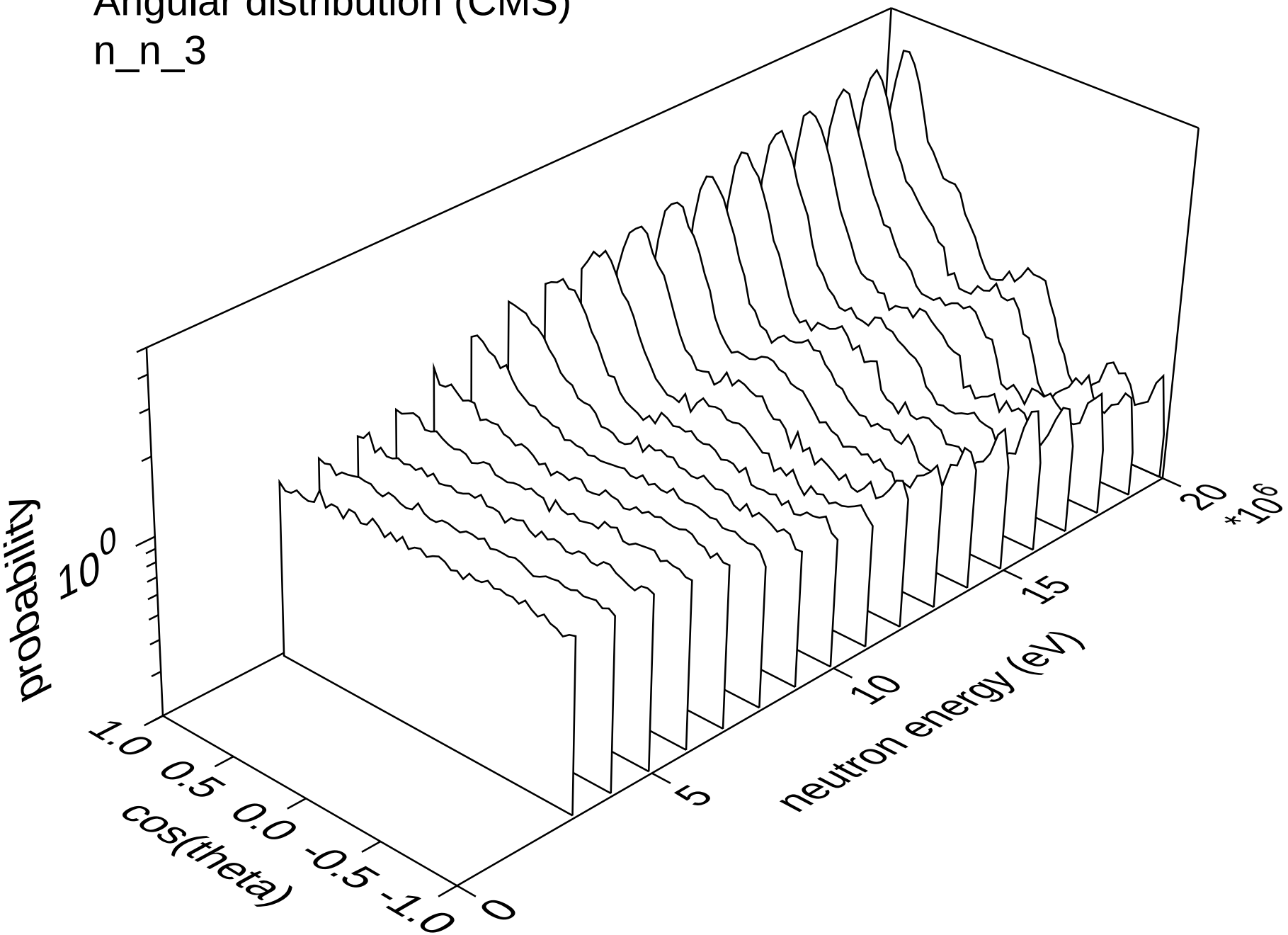

Angular distribution (CMS)
n_np part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
neutron energy (eV)
*10^6

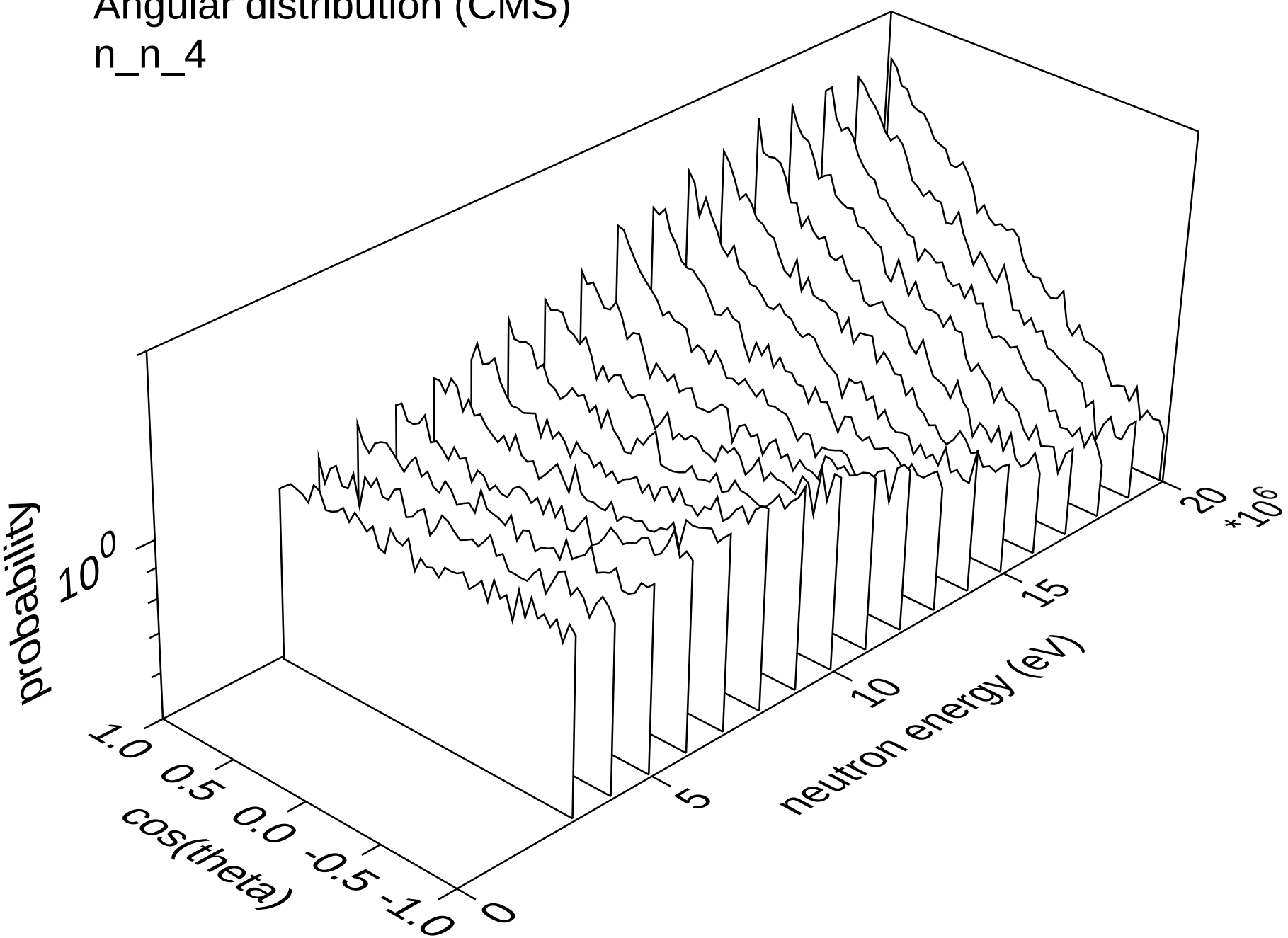

Angular distribution (CMS)
n_np part.=proton
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
*10^6
neutron energy (eV)

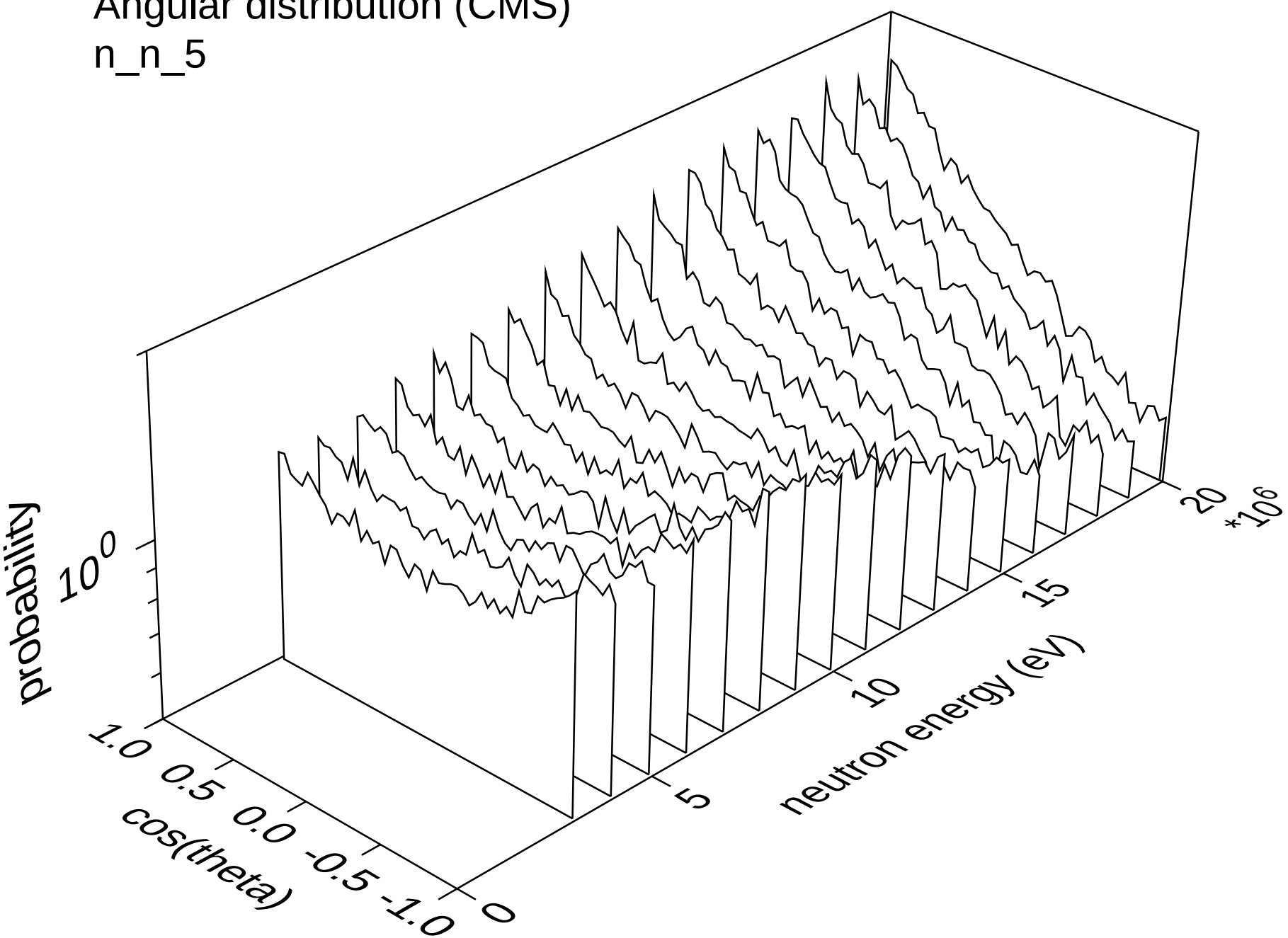

Angular distribution (CMS)
n_np part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
*10^6
neutron energy (eV)

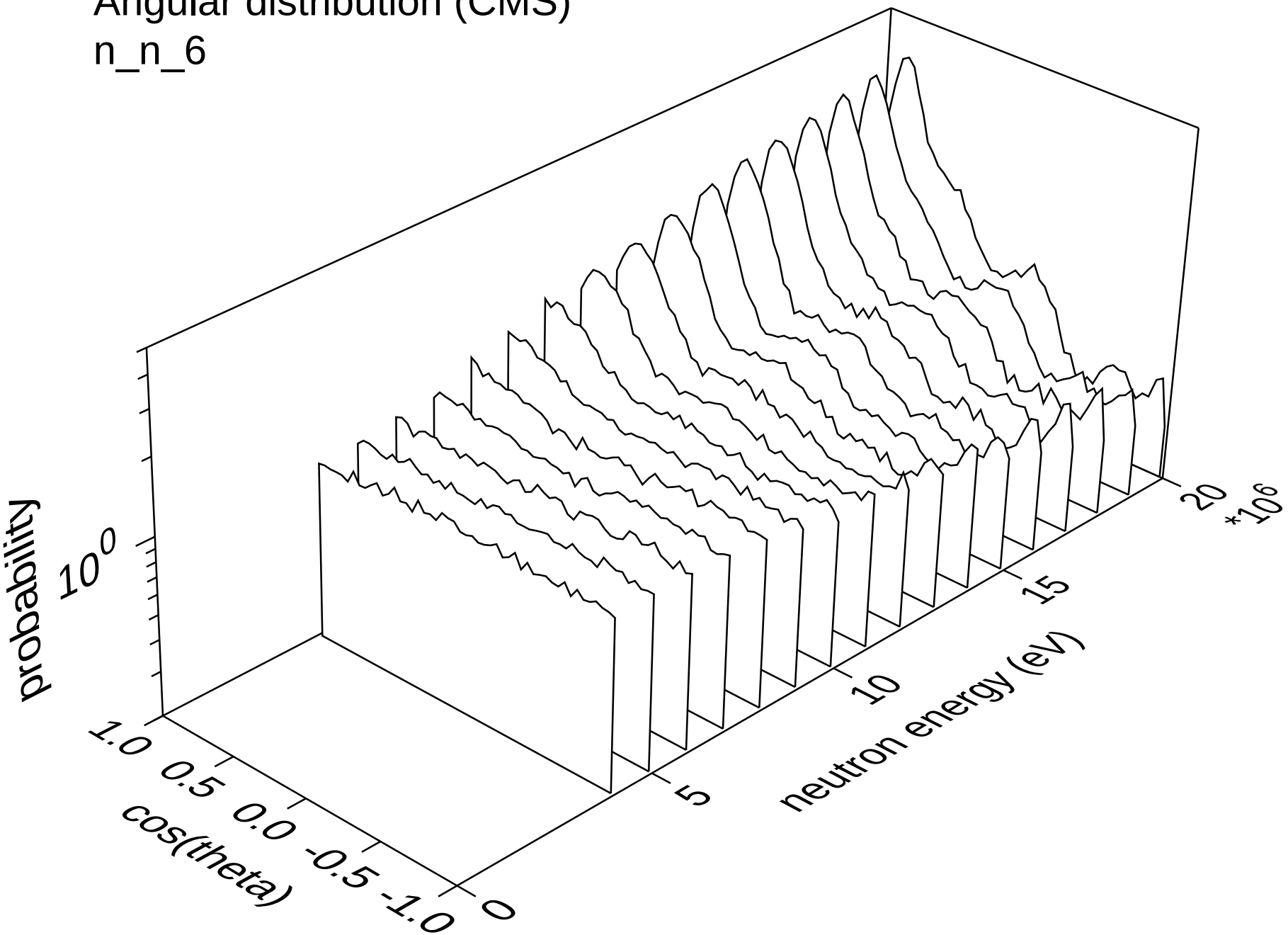

Angular distribution (CMS)
n_n_1
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

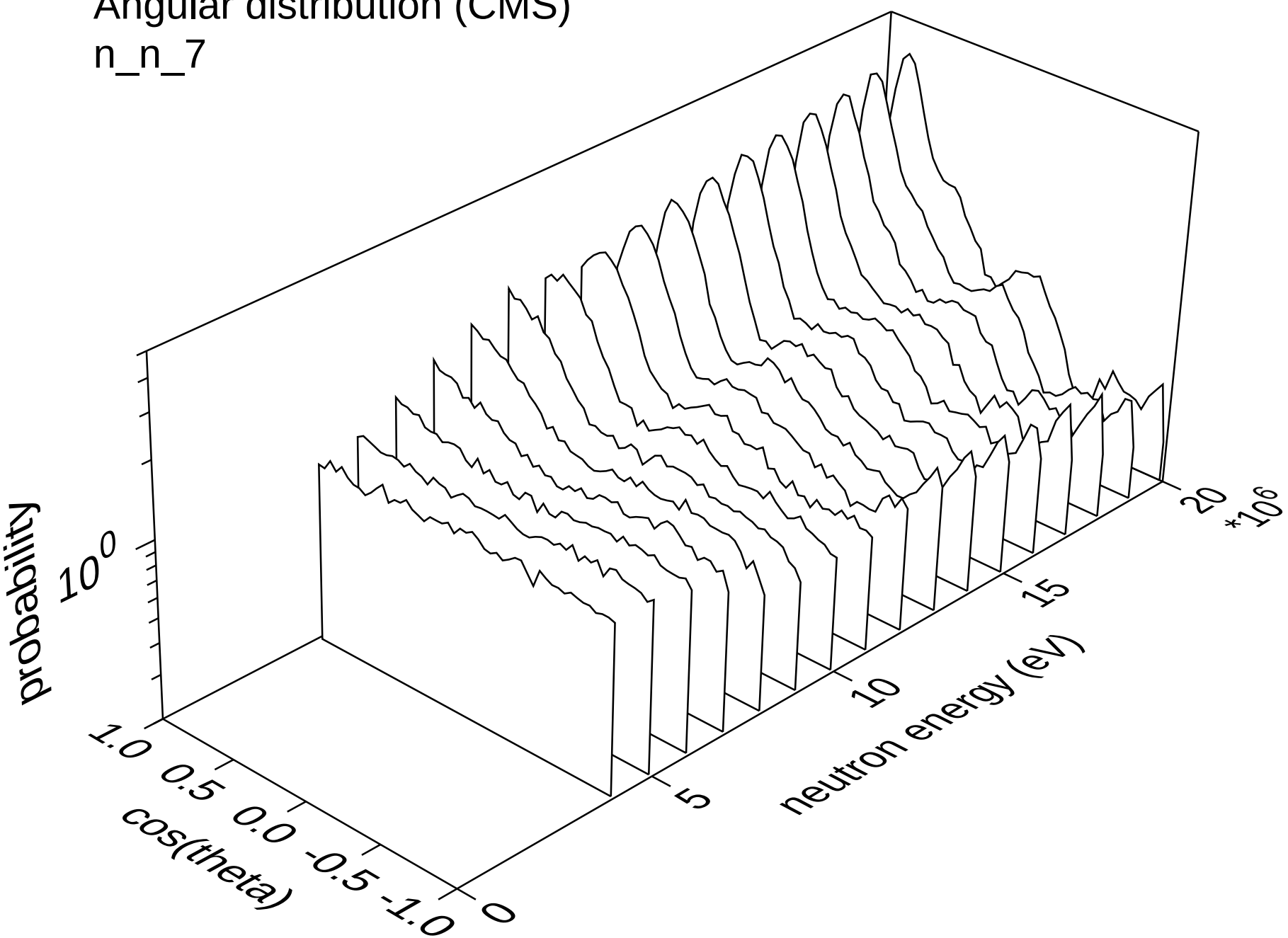

Angular distribution (CMS)
n_n_2
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

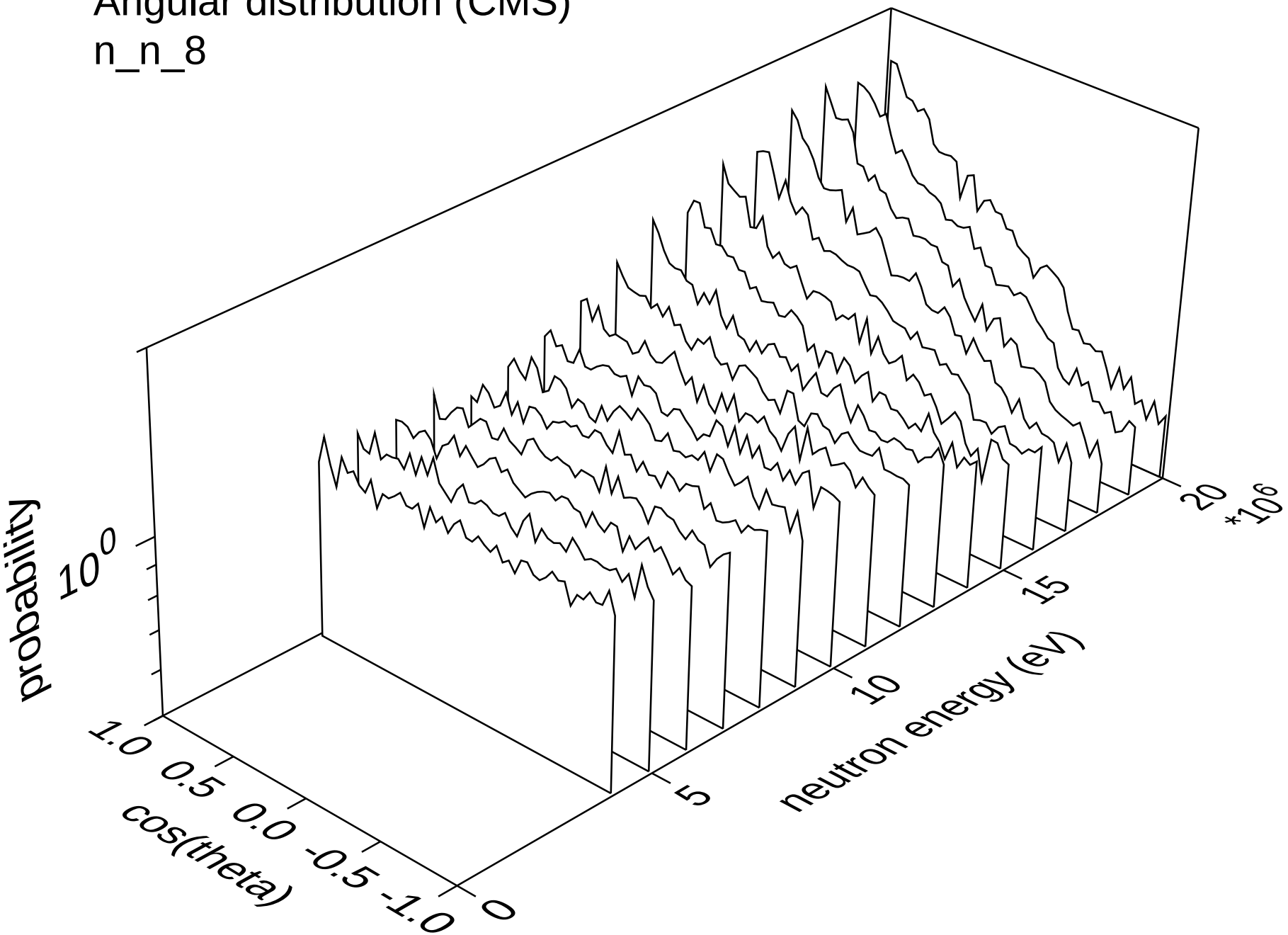

Angular distribution (CMS)
n_n_3
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

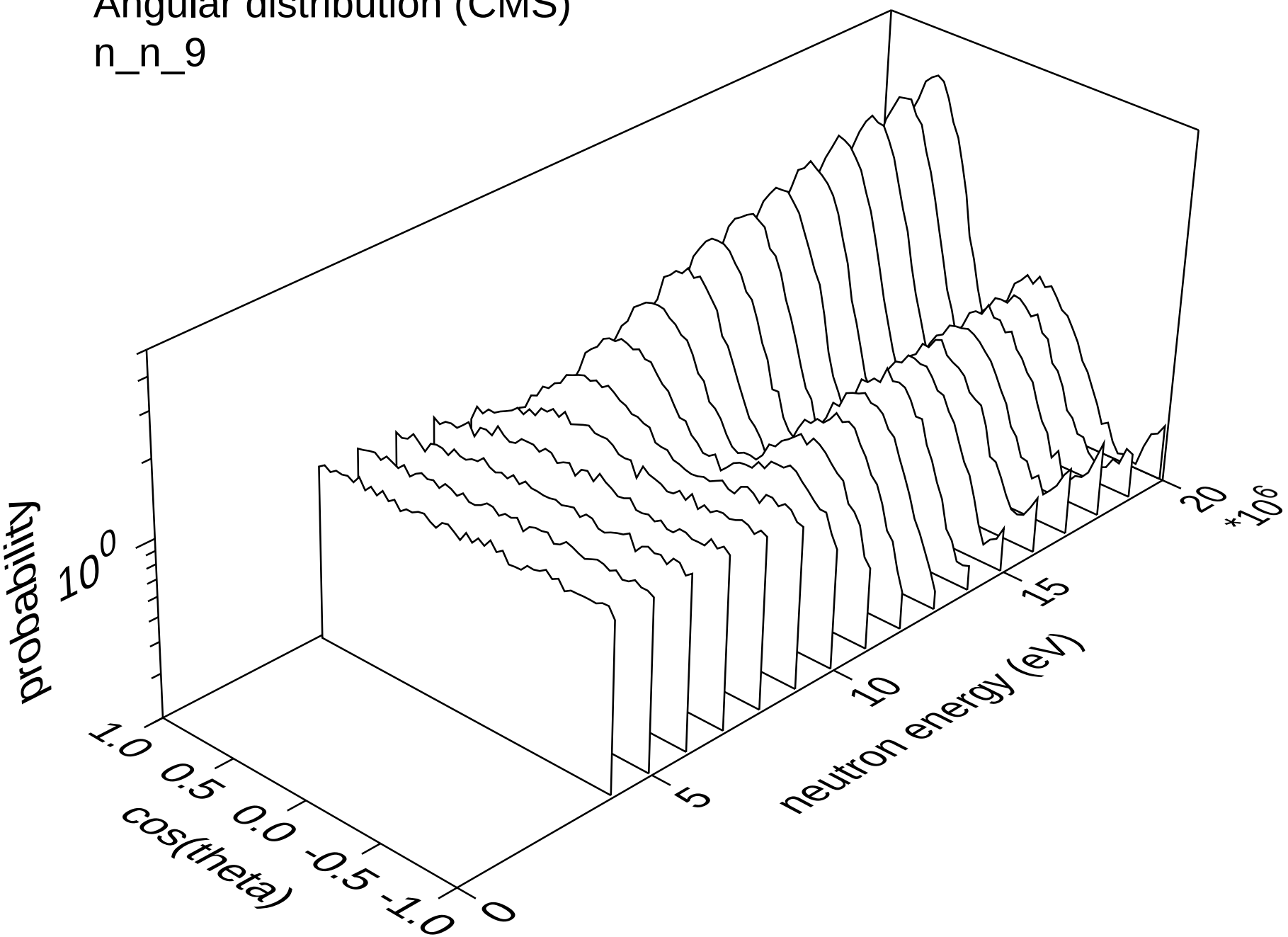

Angular distribution (CMS)
n_n_4
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

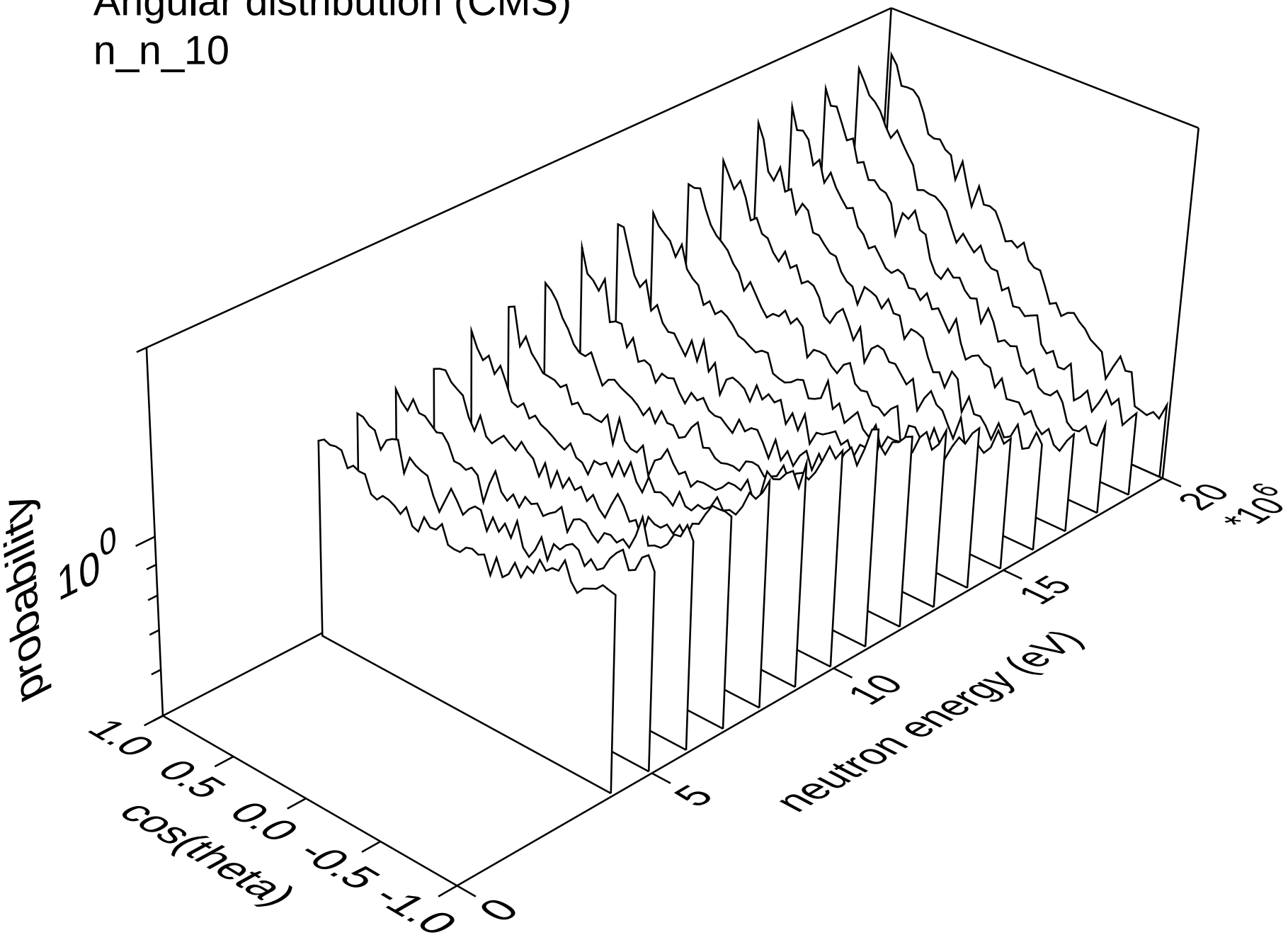

Angular distribution (CMS)
n_n_5
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

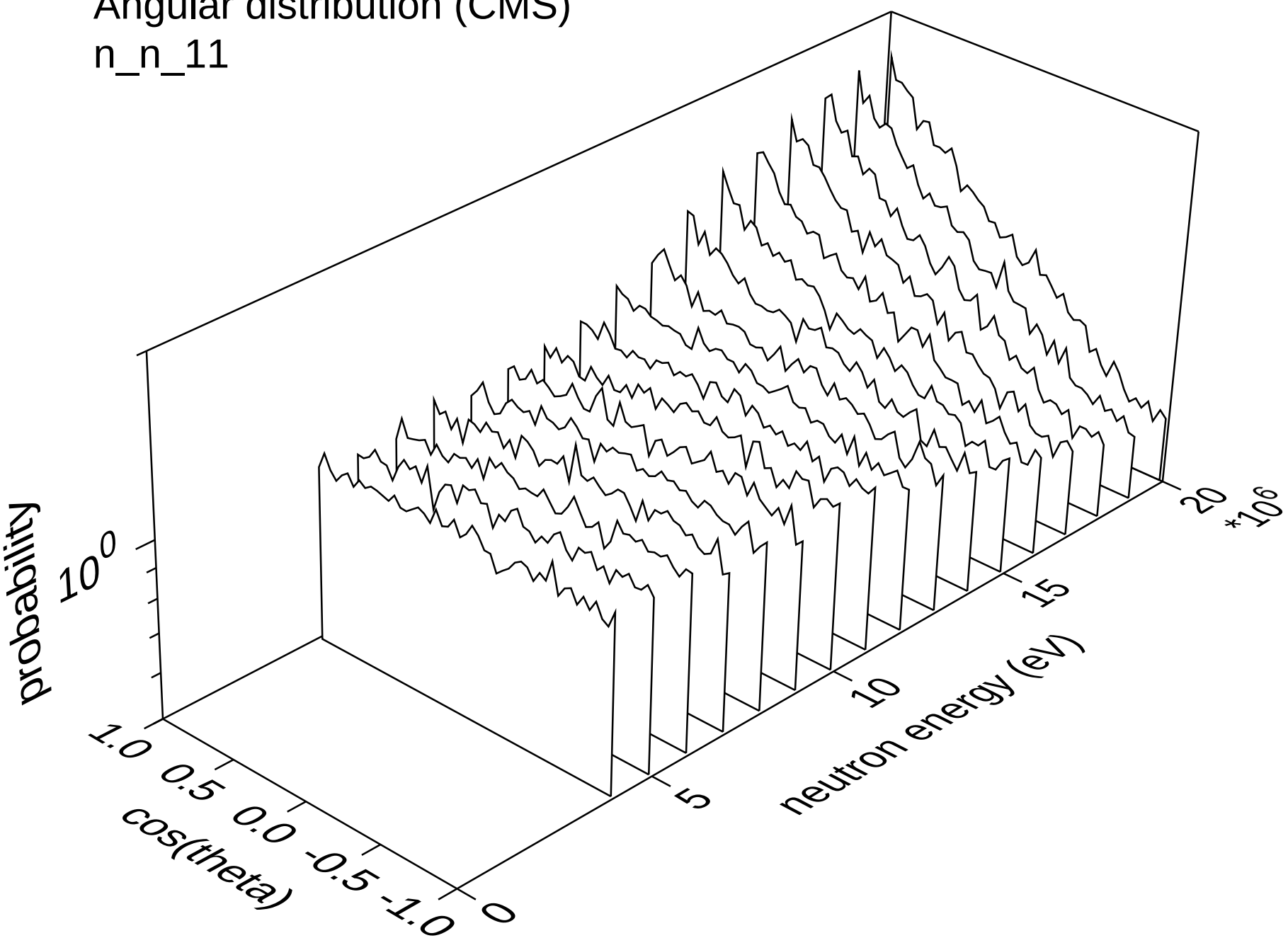

Angular distribution (CMS)
n_n_6
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

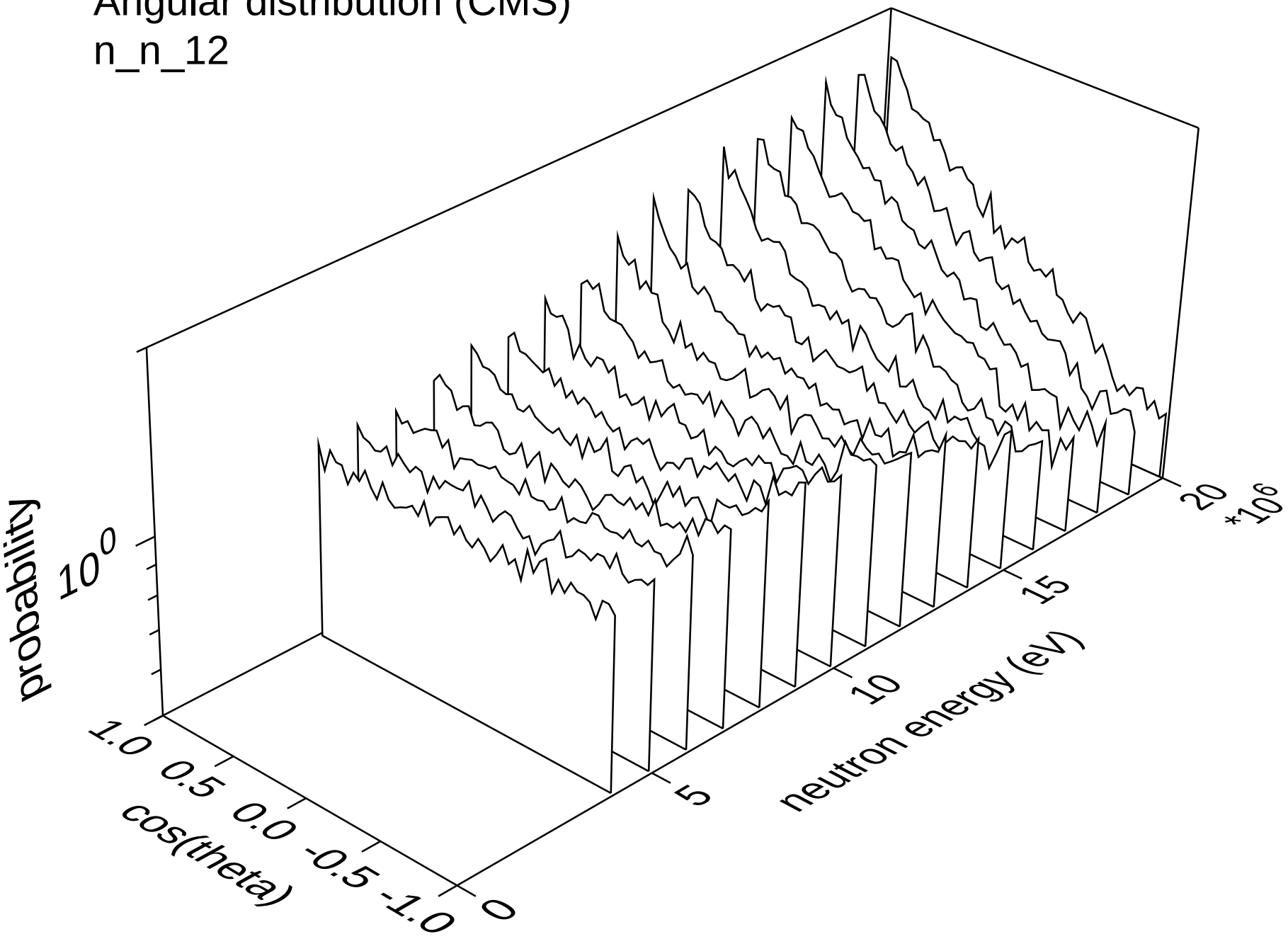

Angular distribution (CMS)
n_n_7
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

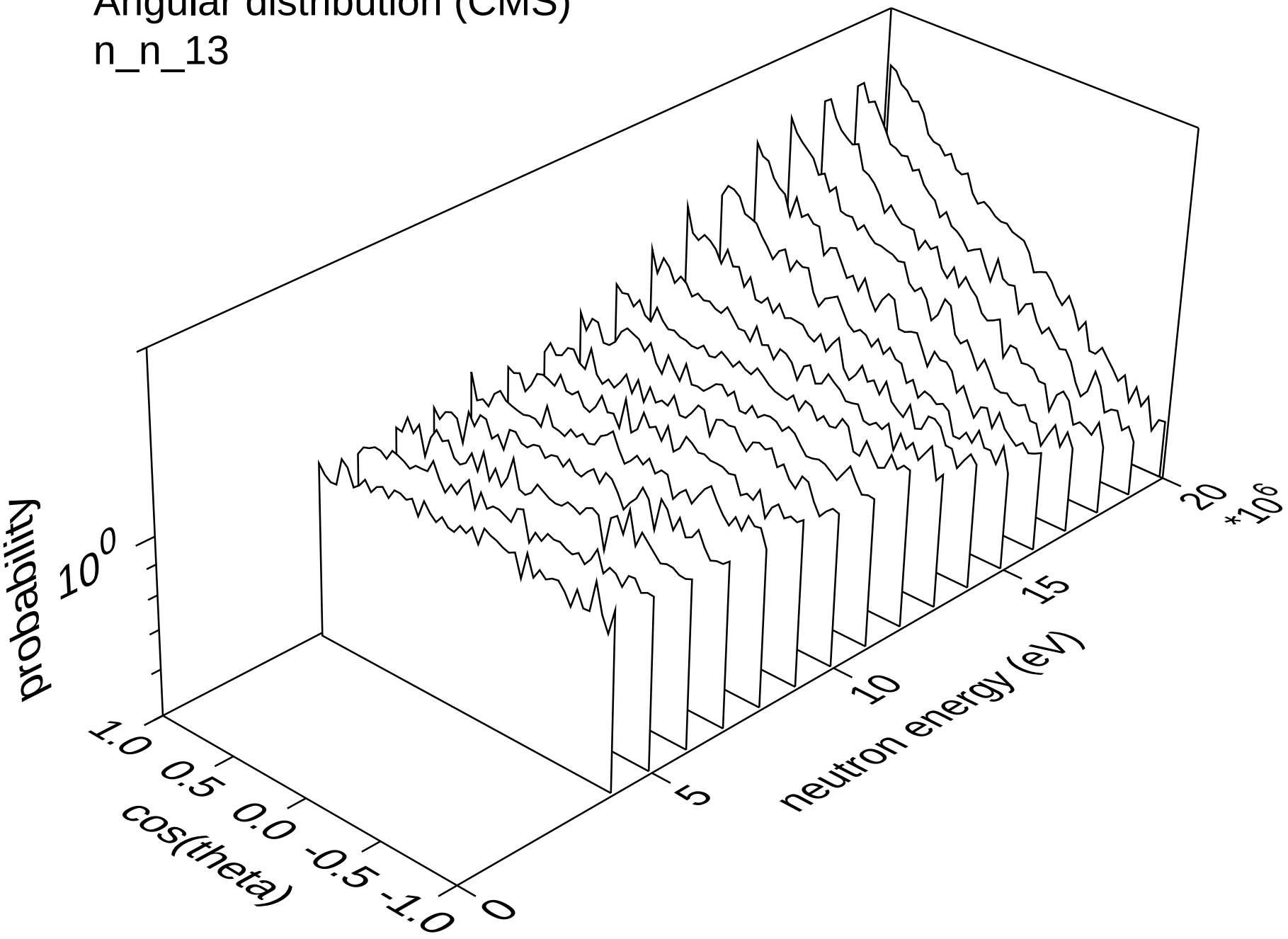

Angular distribution (CMS)
n_n_8
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

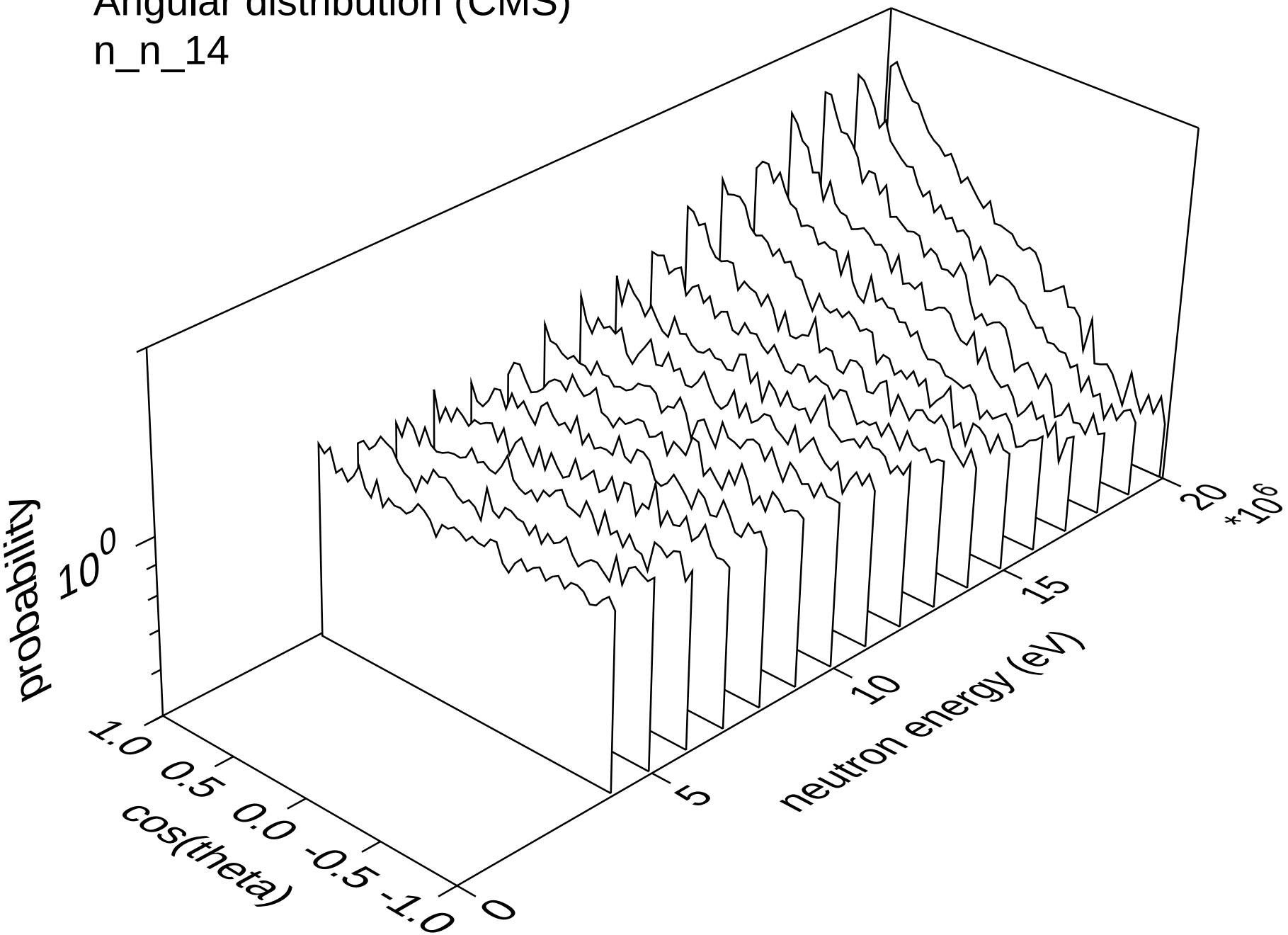

Angular distribution (CMS)
n_n_9
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

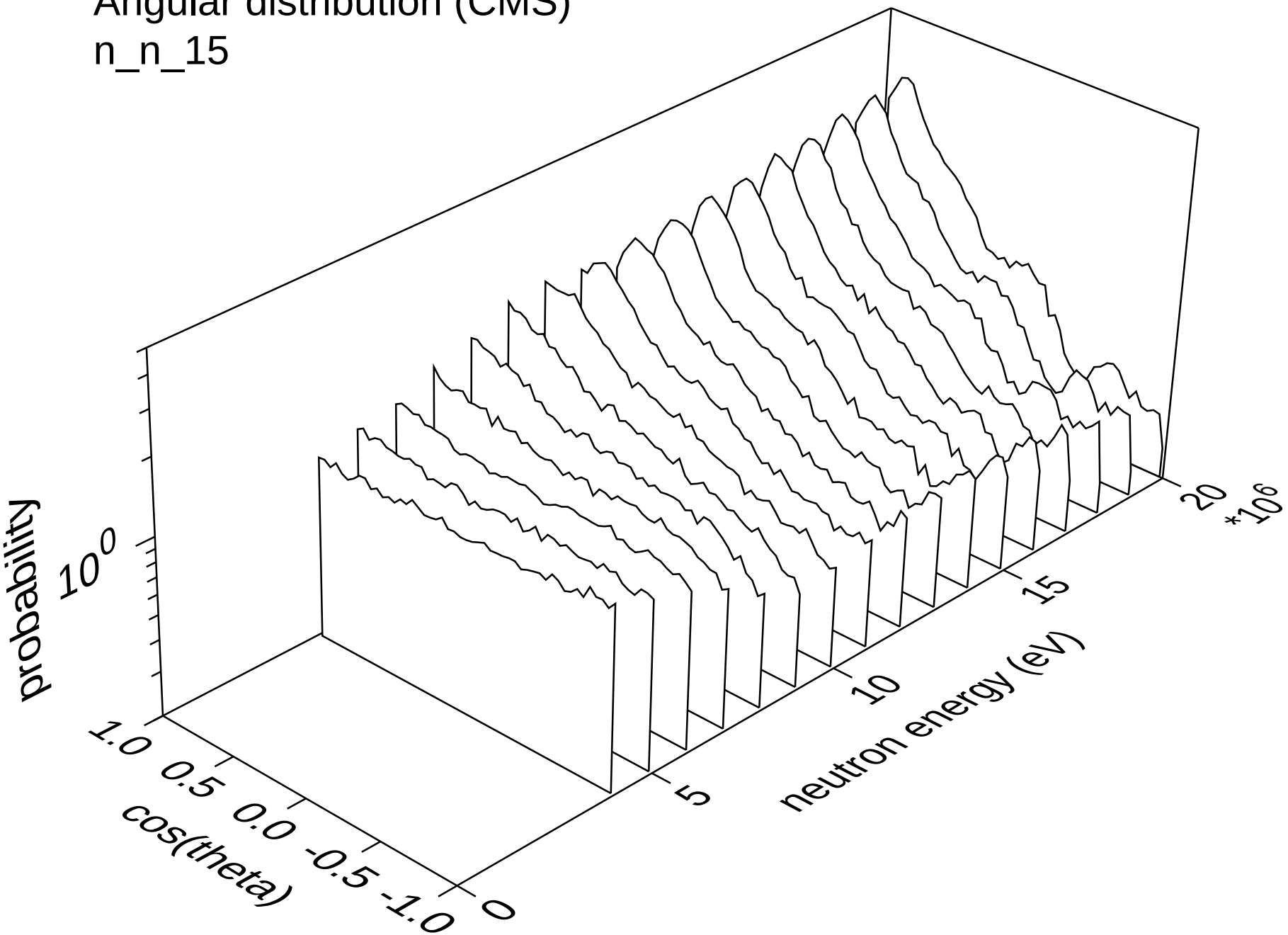

Angular distribution (CMS)
n_n_10
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

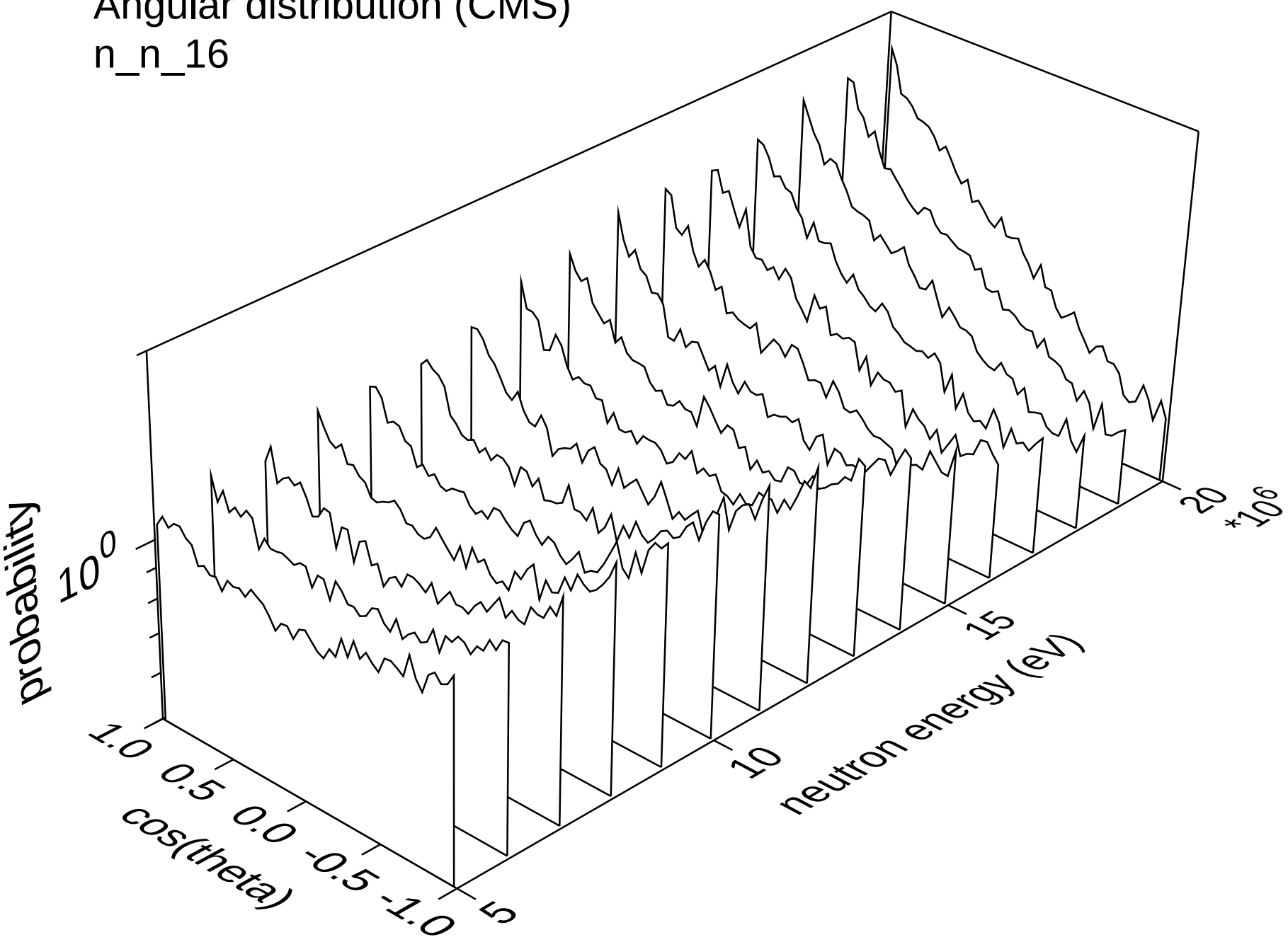

Angular distribution (CMS)
n_n_11
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

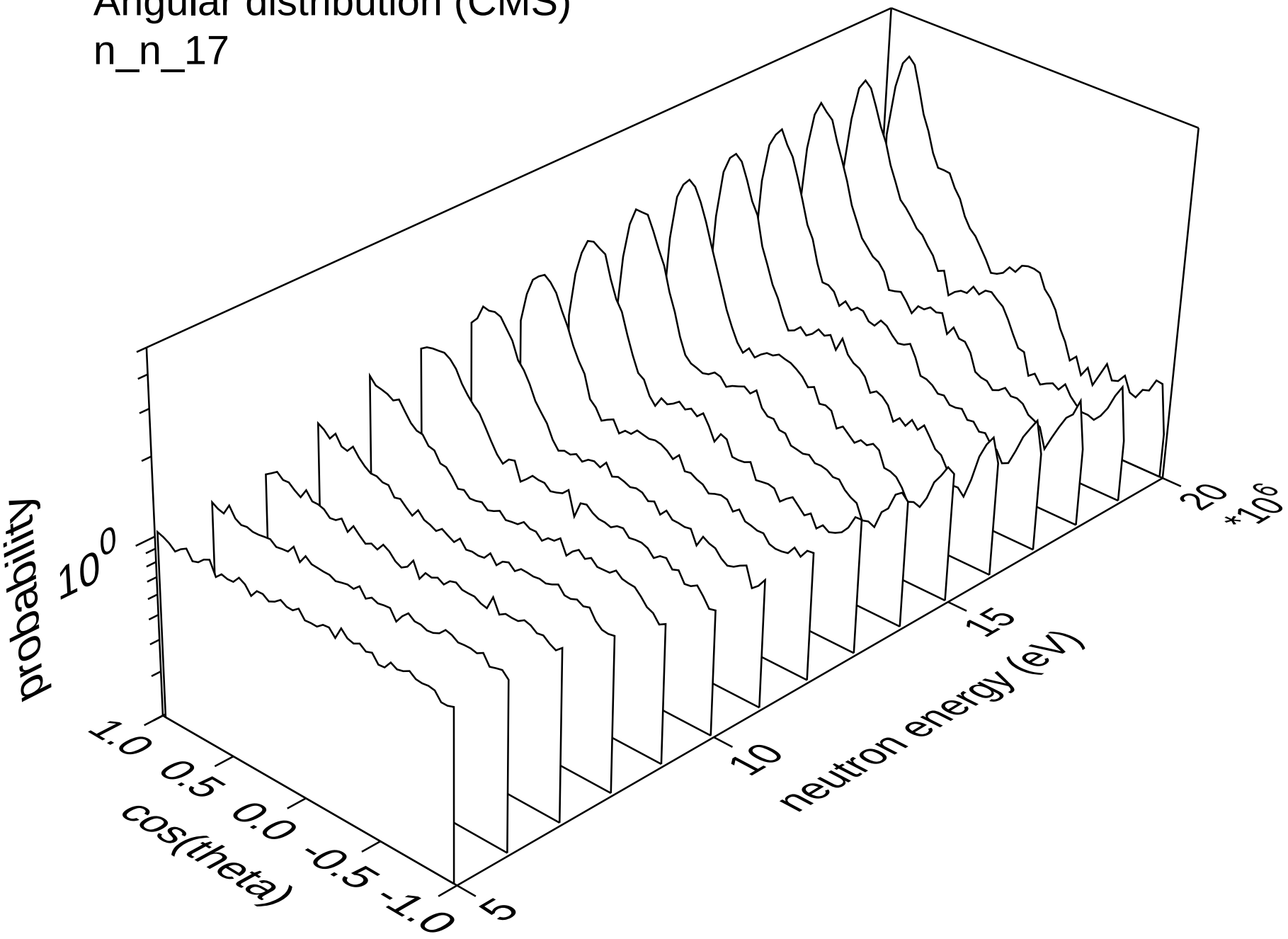

Angular distribution (CMS)
n_n_12
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

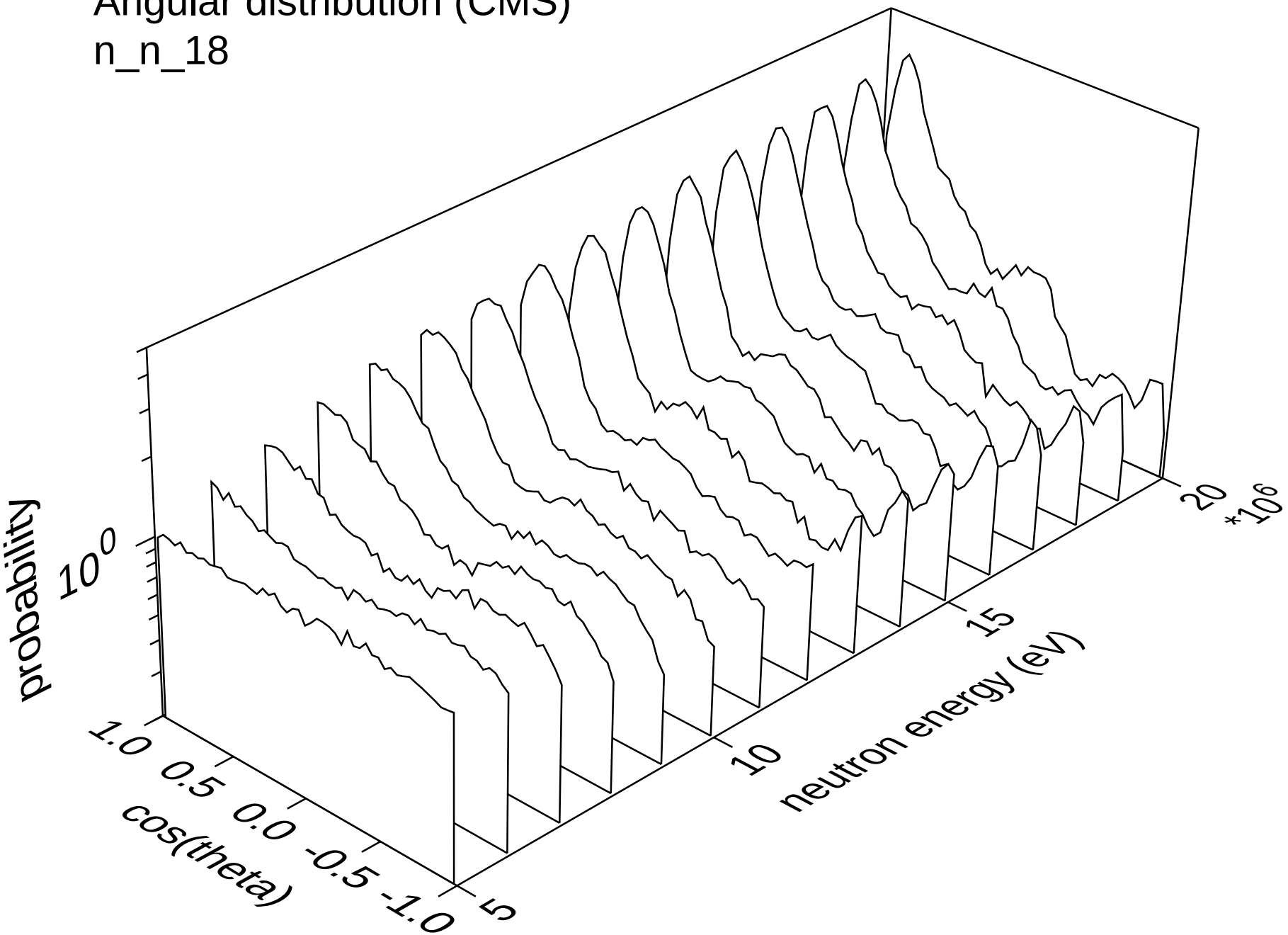

Angular distribution (CMS)
n_n_13
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

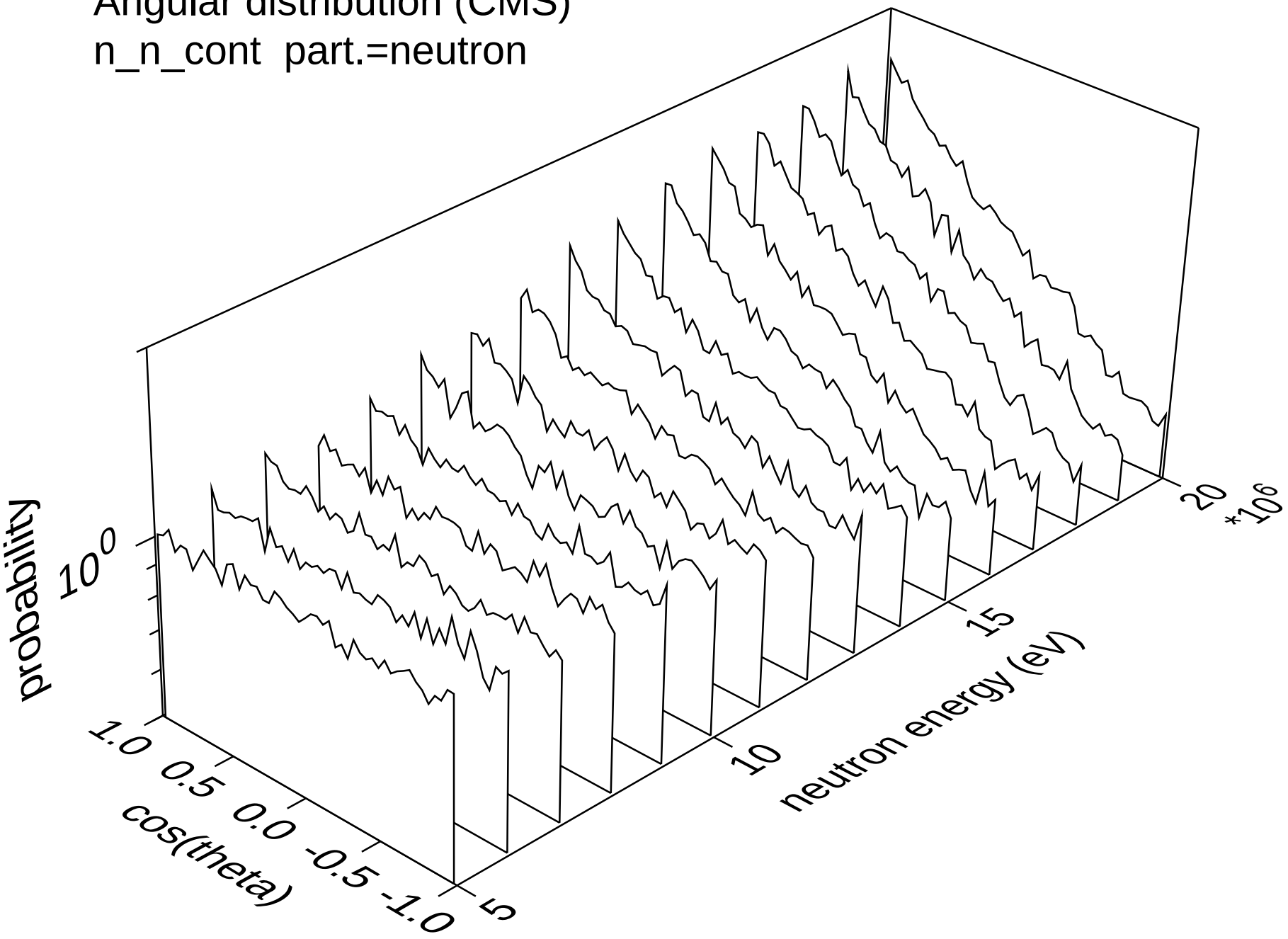

Angular distribution (CMS)
n_n_14
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

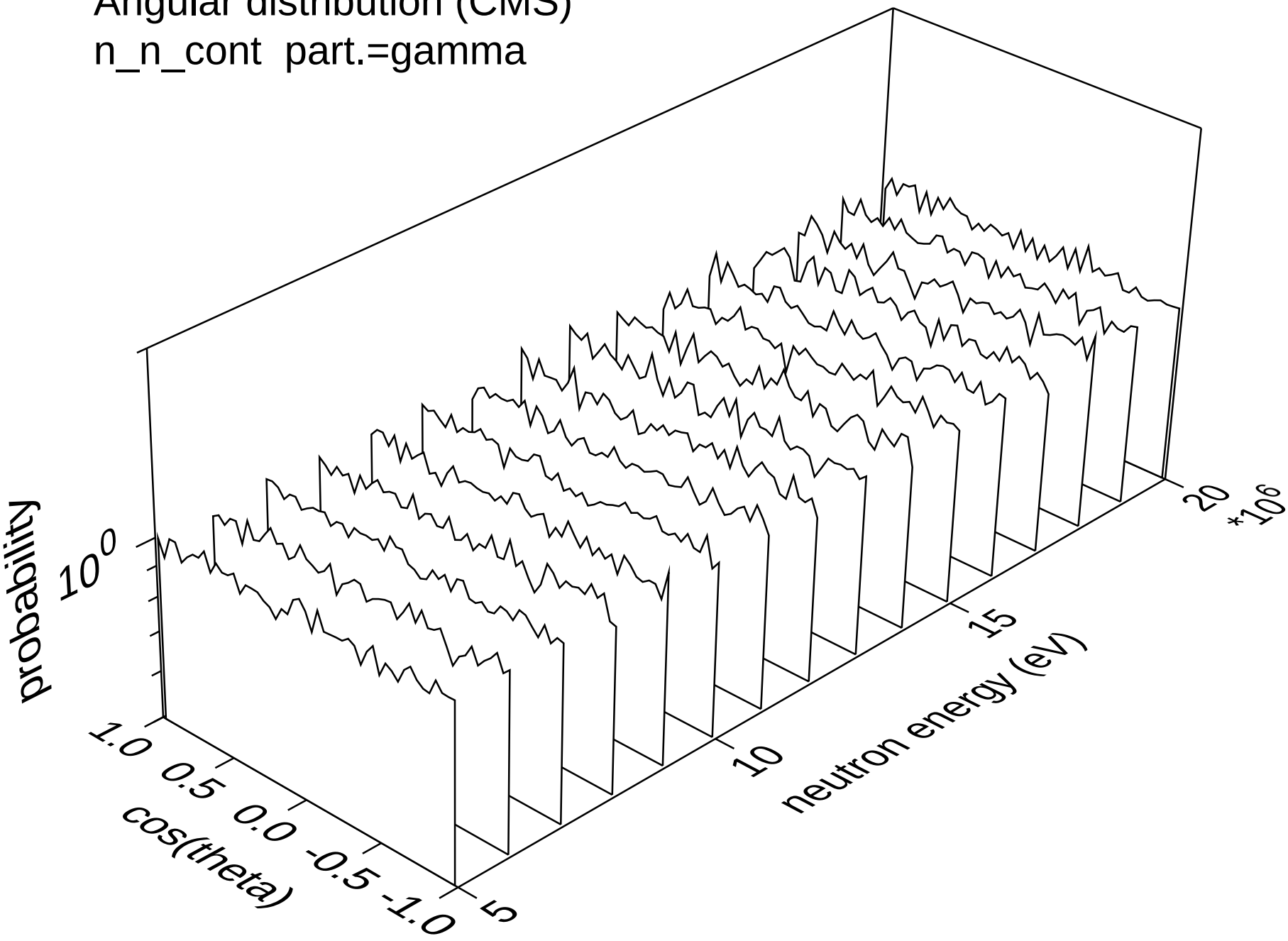

Angular distribution (CMS)
n_n_15
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

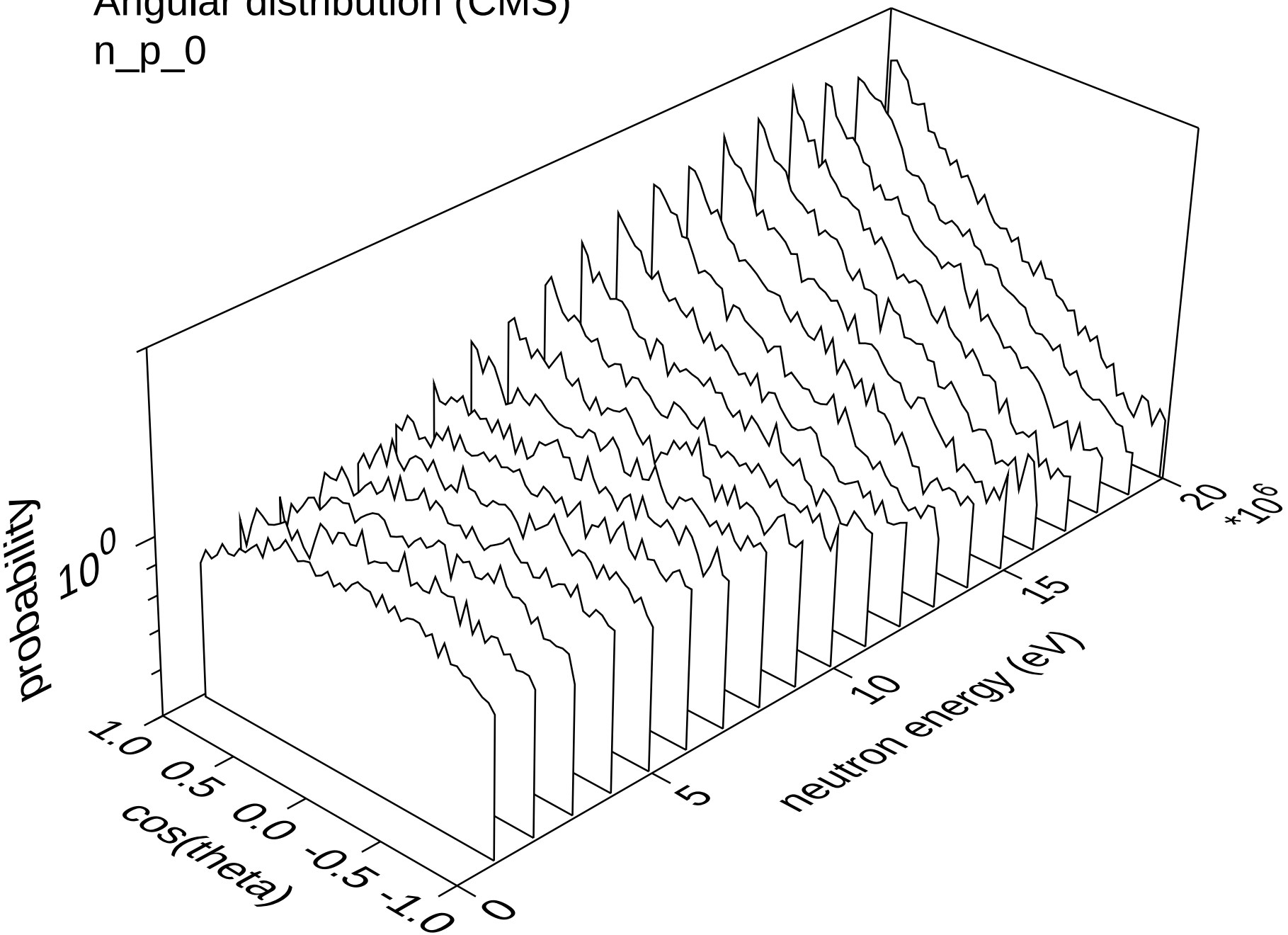

Angular distribution (CMS)
n_n_16
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

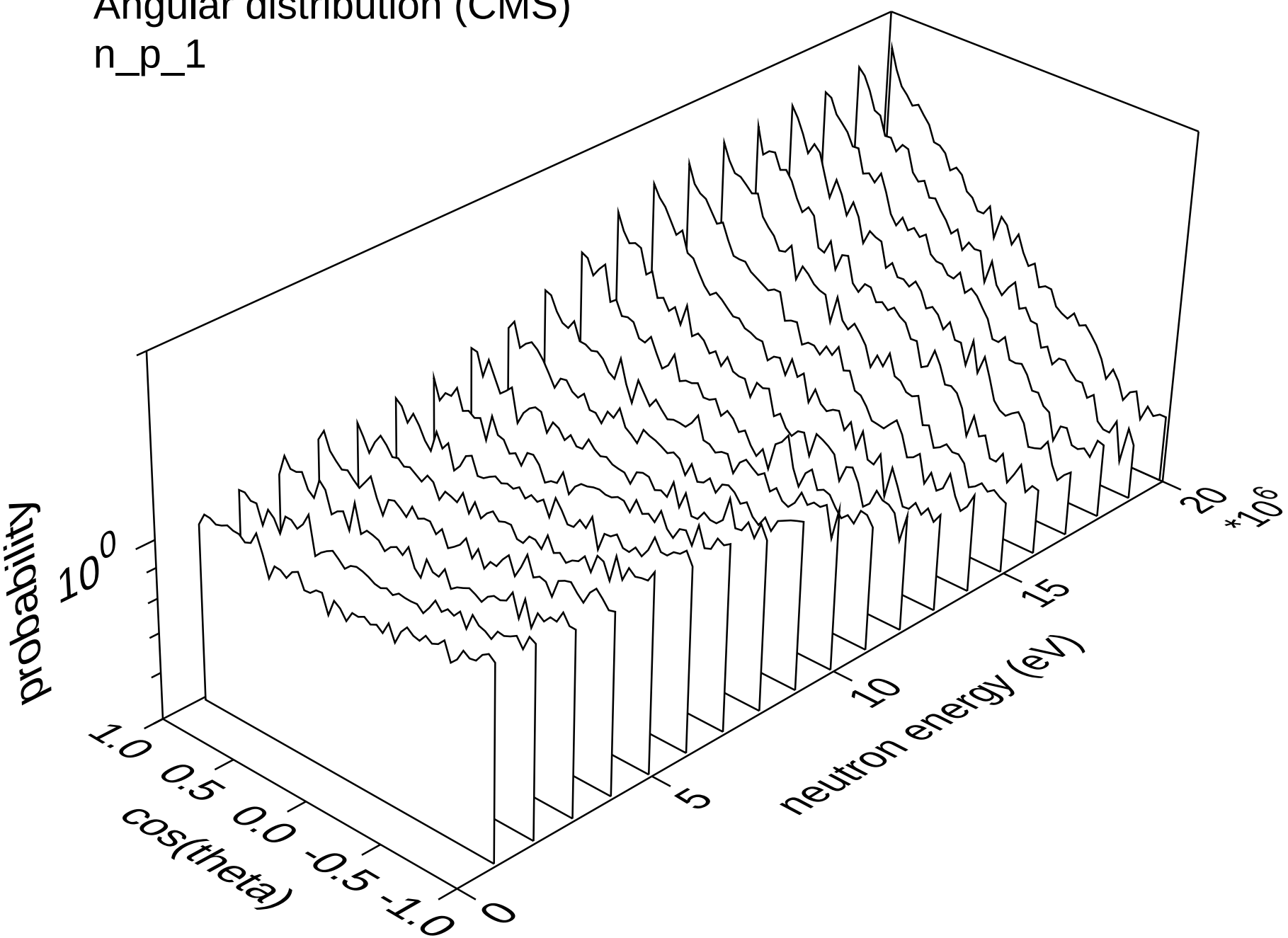

Angular distribution (CMS)
n_n_17
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

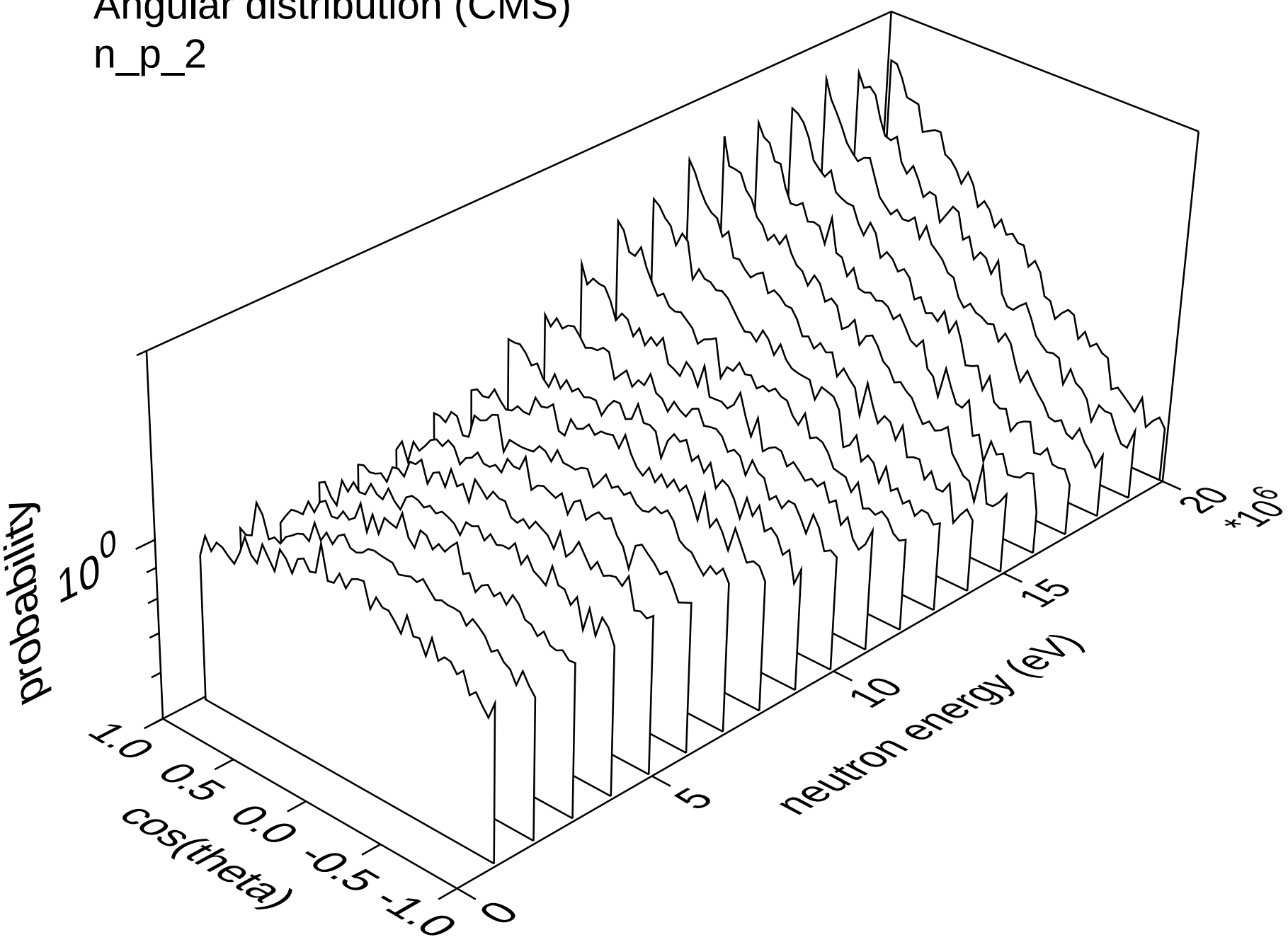

Angular distribution (CMS)
n_n_18
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

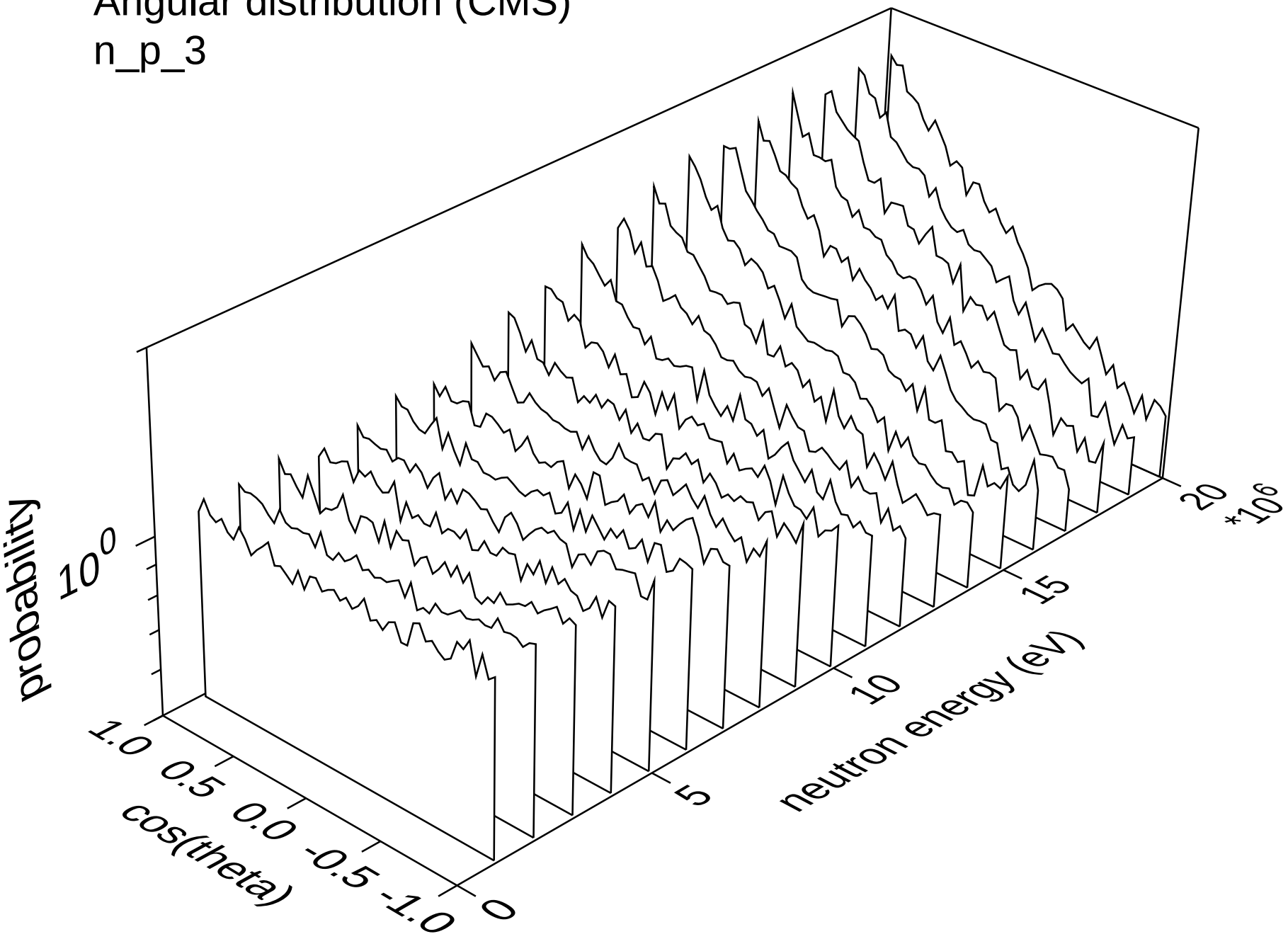

Angular distribution (CMS)
n_n_cont part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

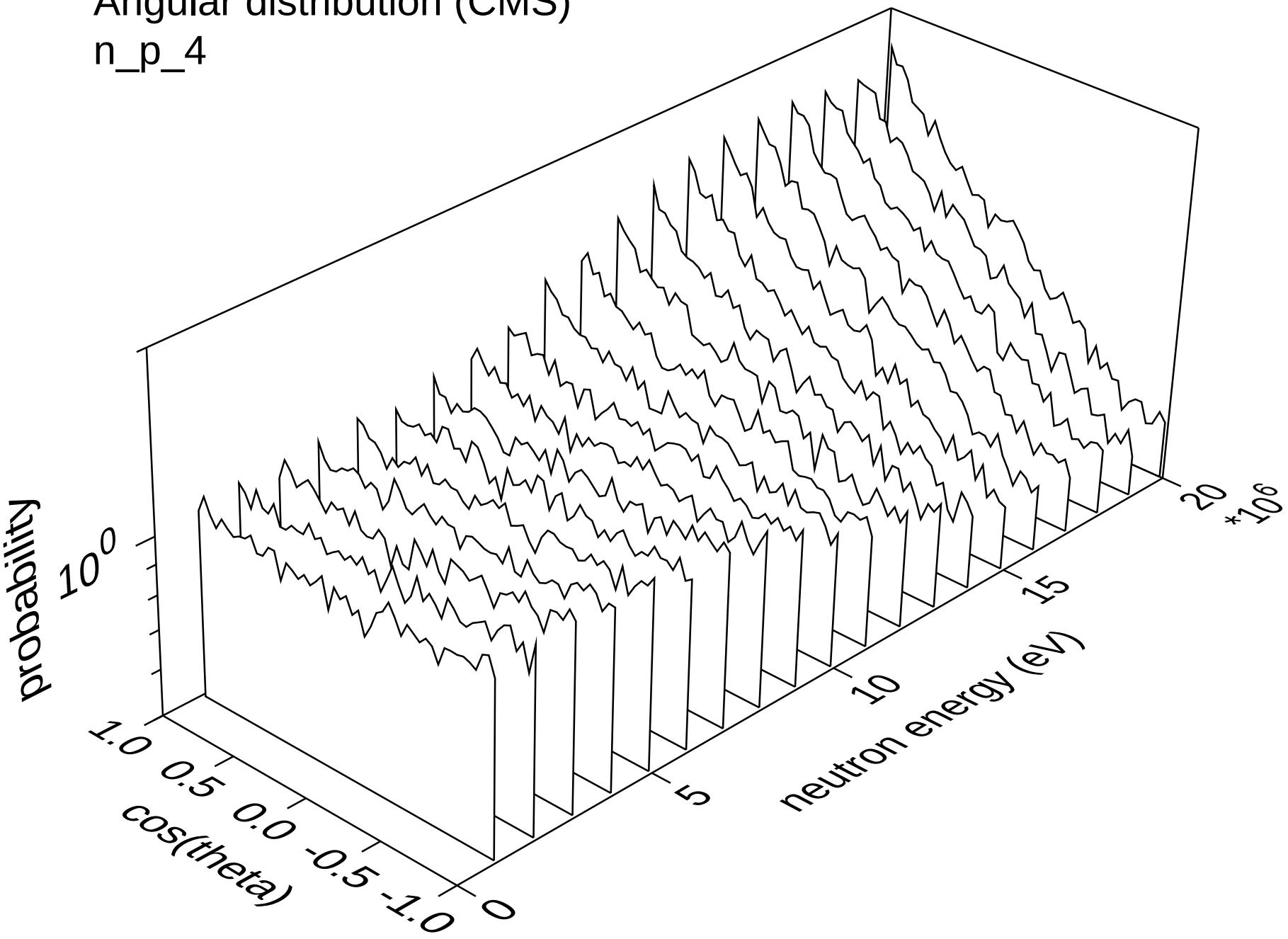

Angular distribution (CMS)
n_n_cont part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

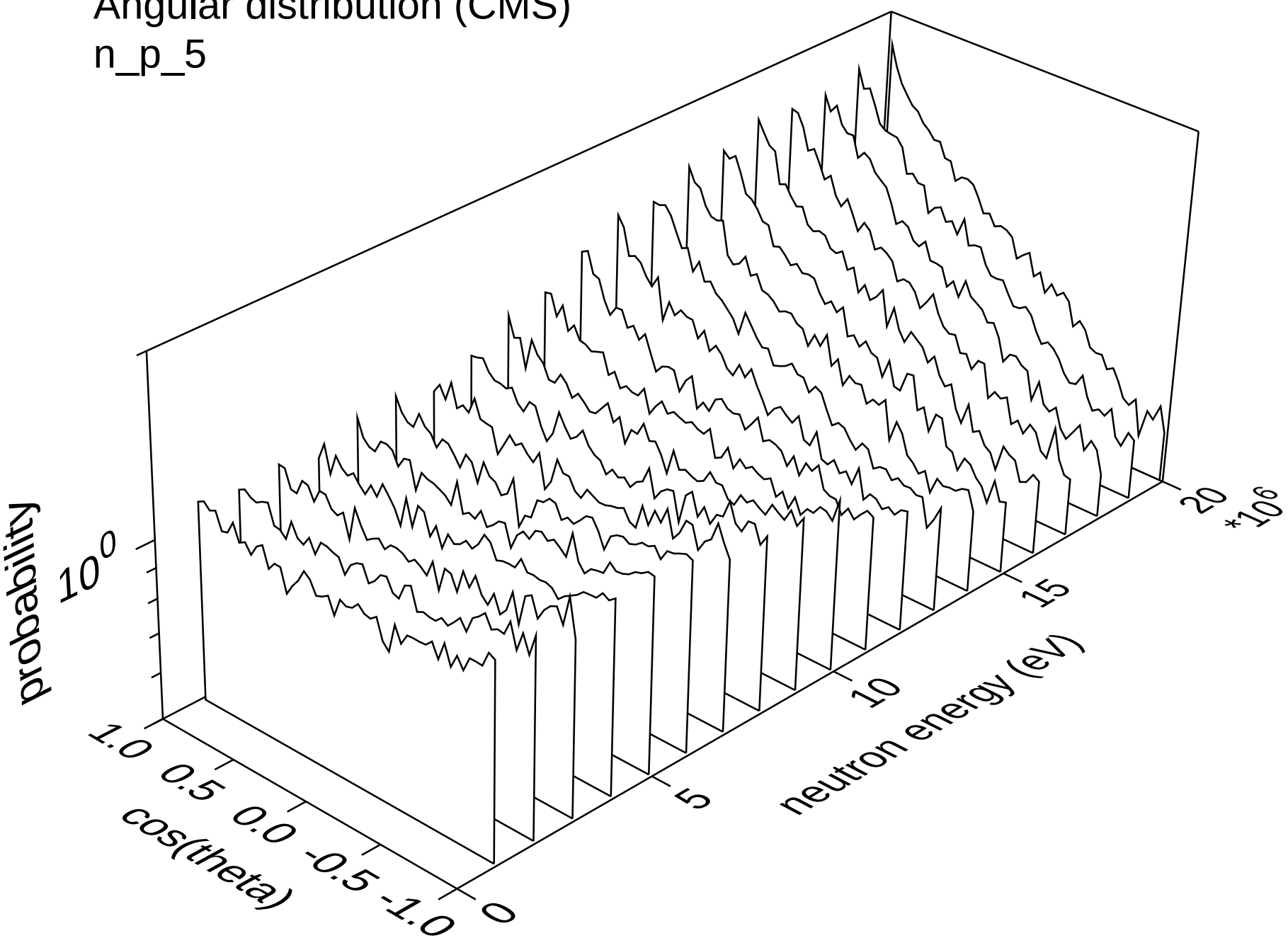

Angular distribution (CMS)
n_p_0
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

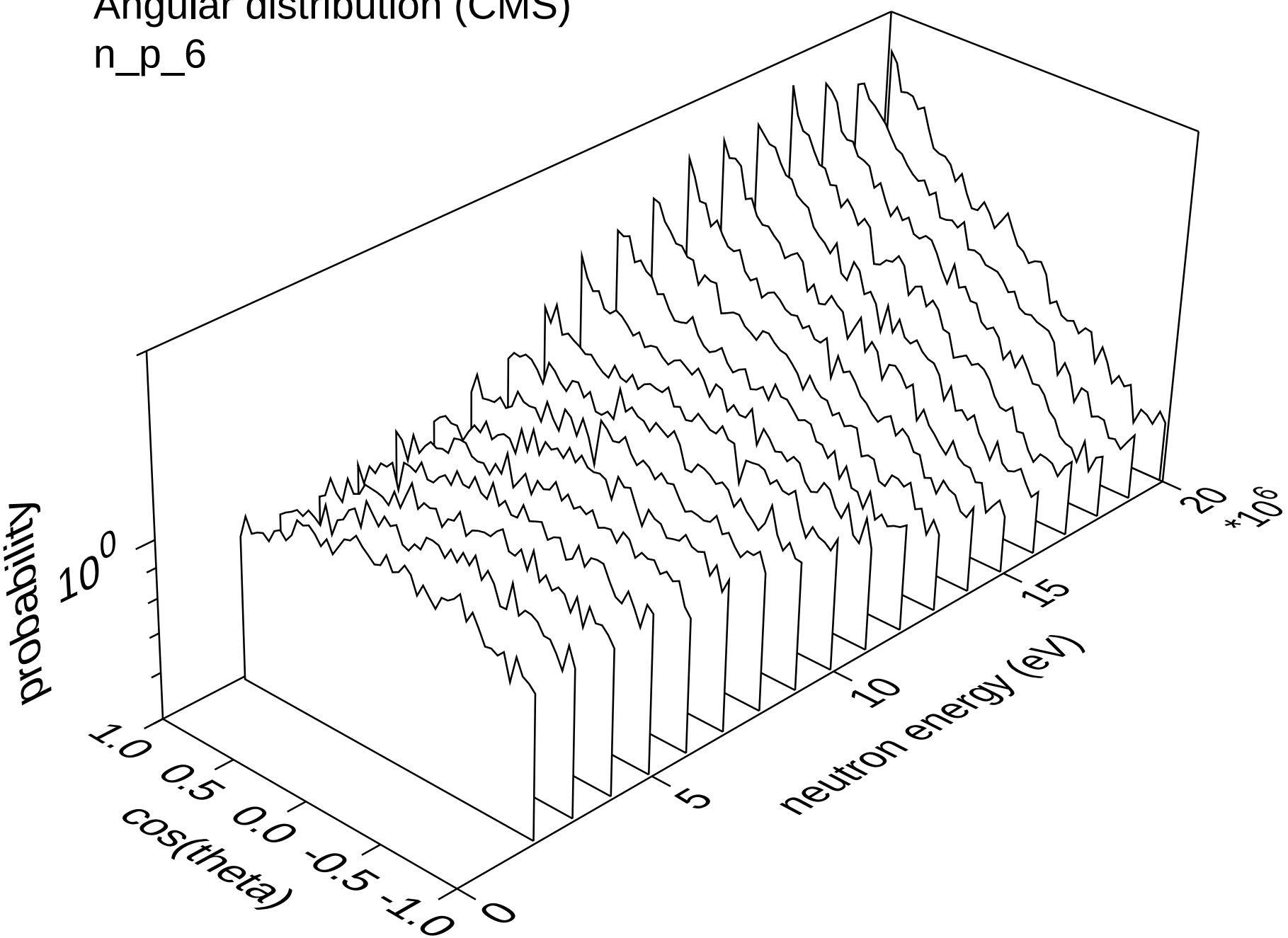

Angular distribution (CMS)
n_p_1
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

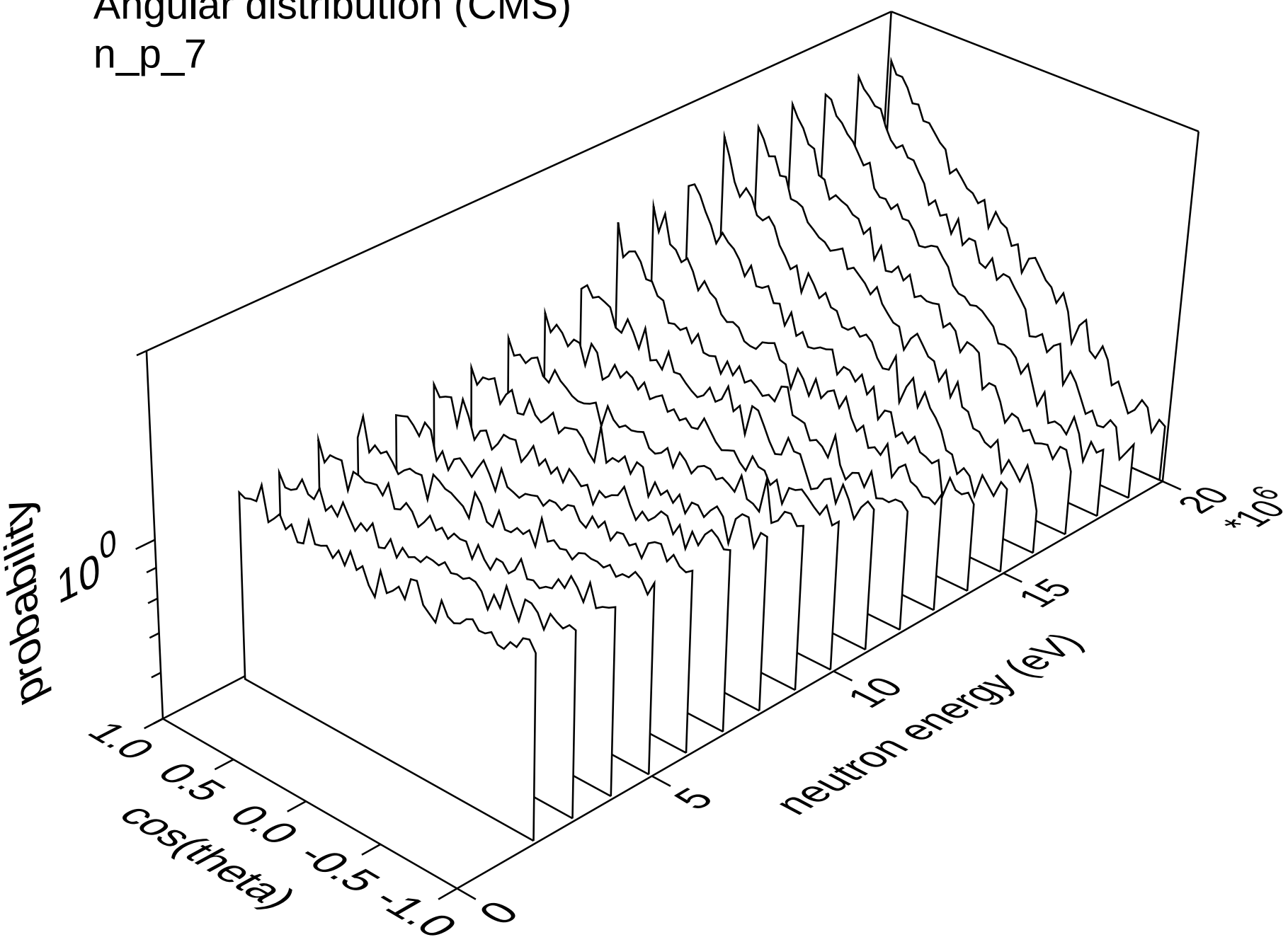

Angular distribution (CMS)
n_p_2
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

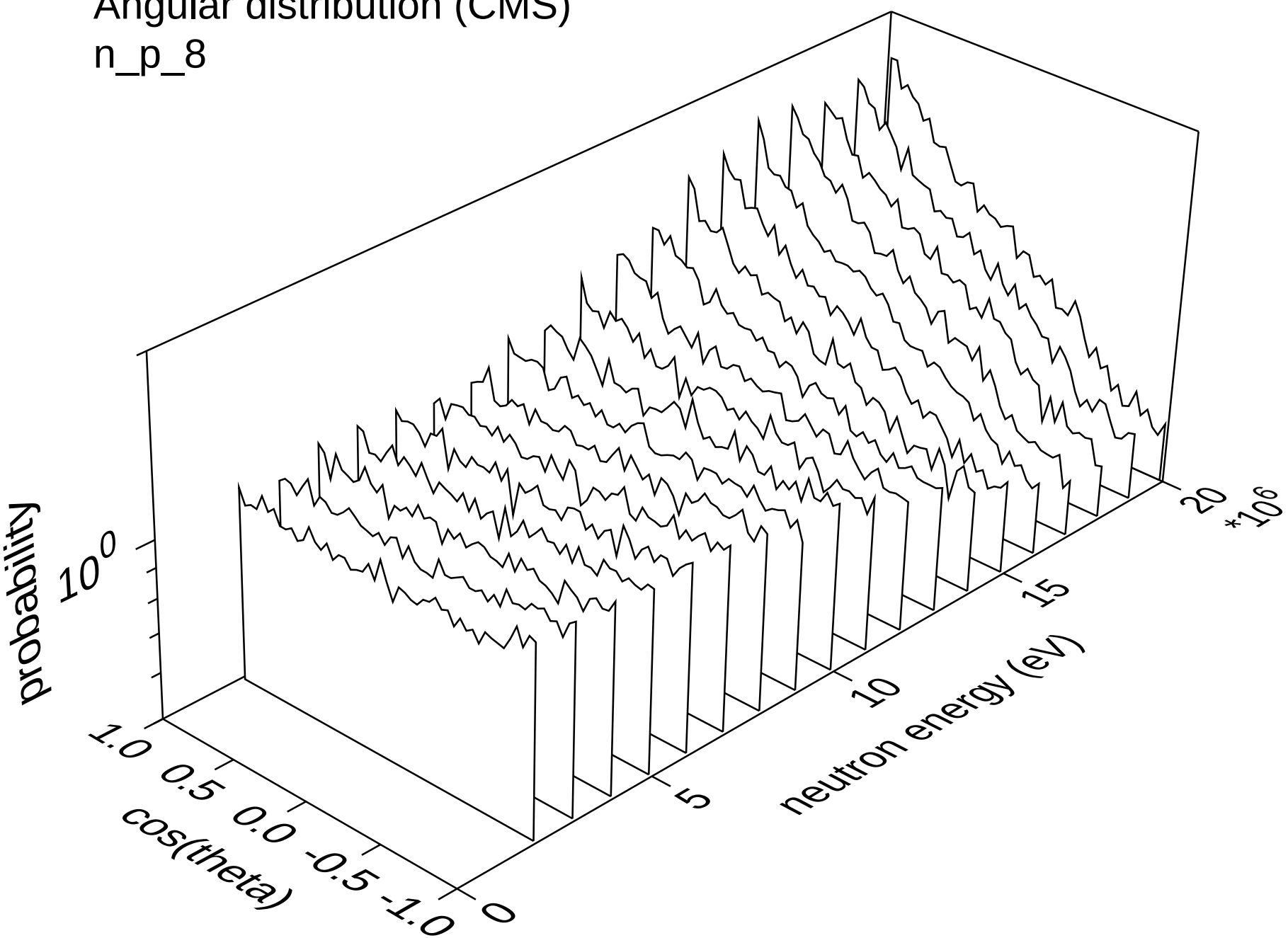

Angular distribution (CMS)
n_p_3
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

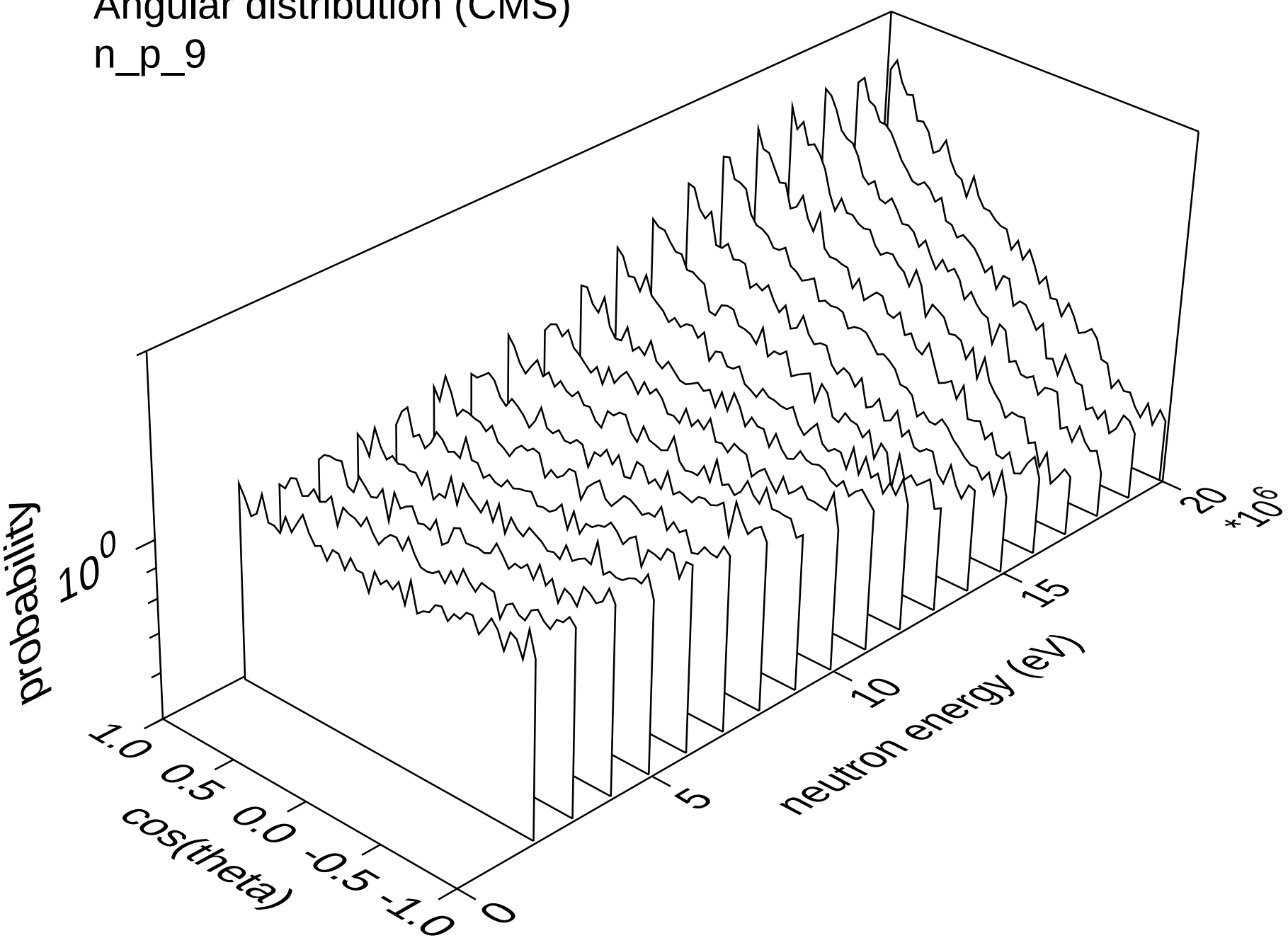

Angular distribution (CMS)
n_p_4
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

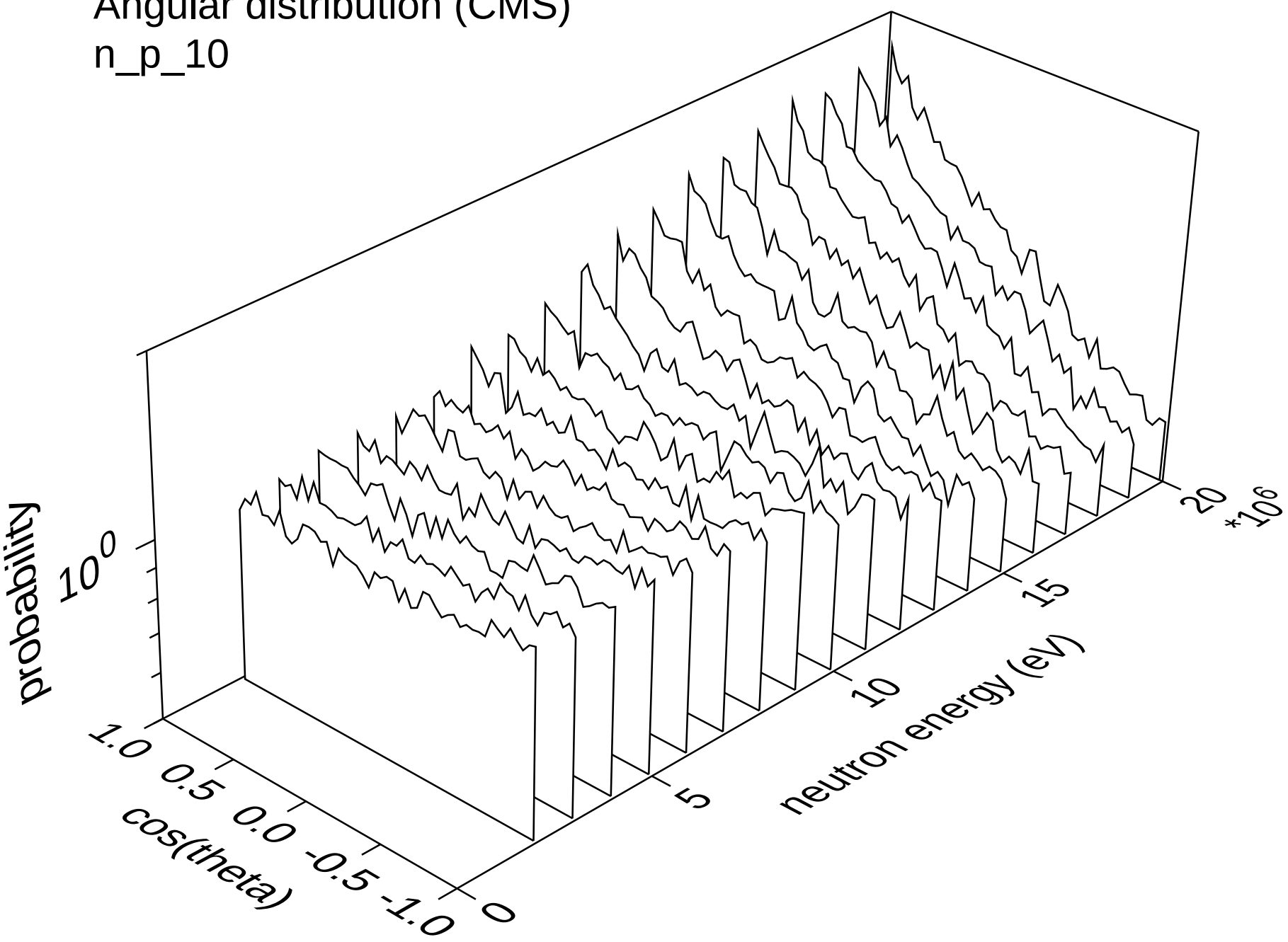

Angular distribution (CMS)
n_p_5
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

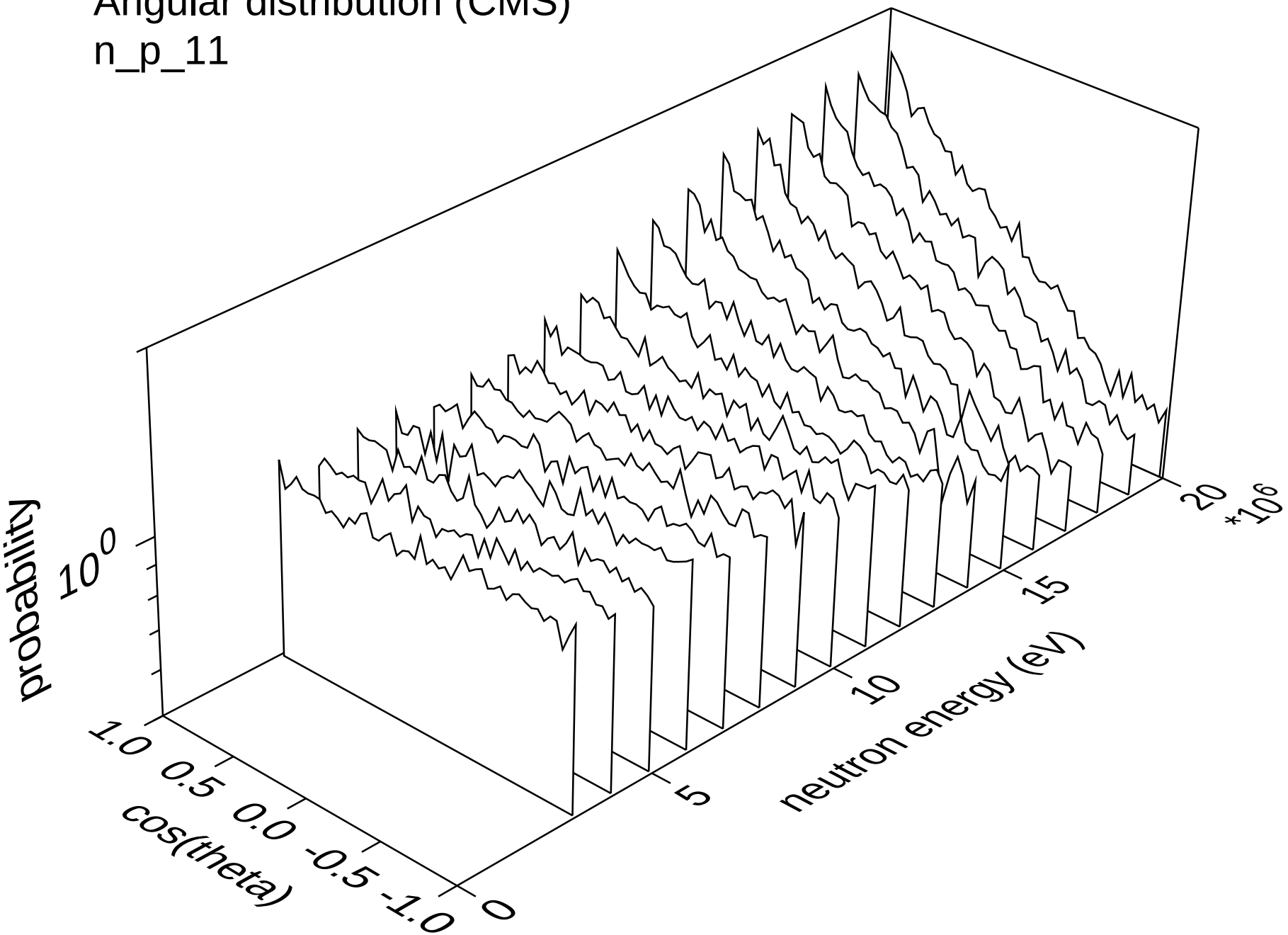

Angular distribution (CMS)
n_p_6
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

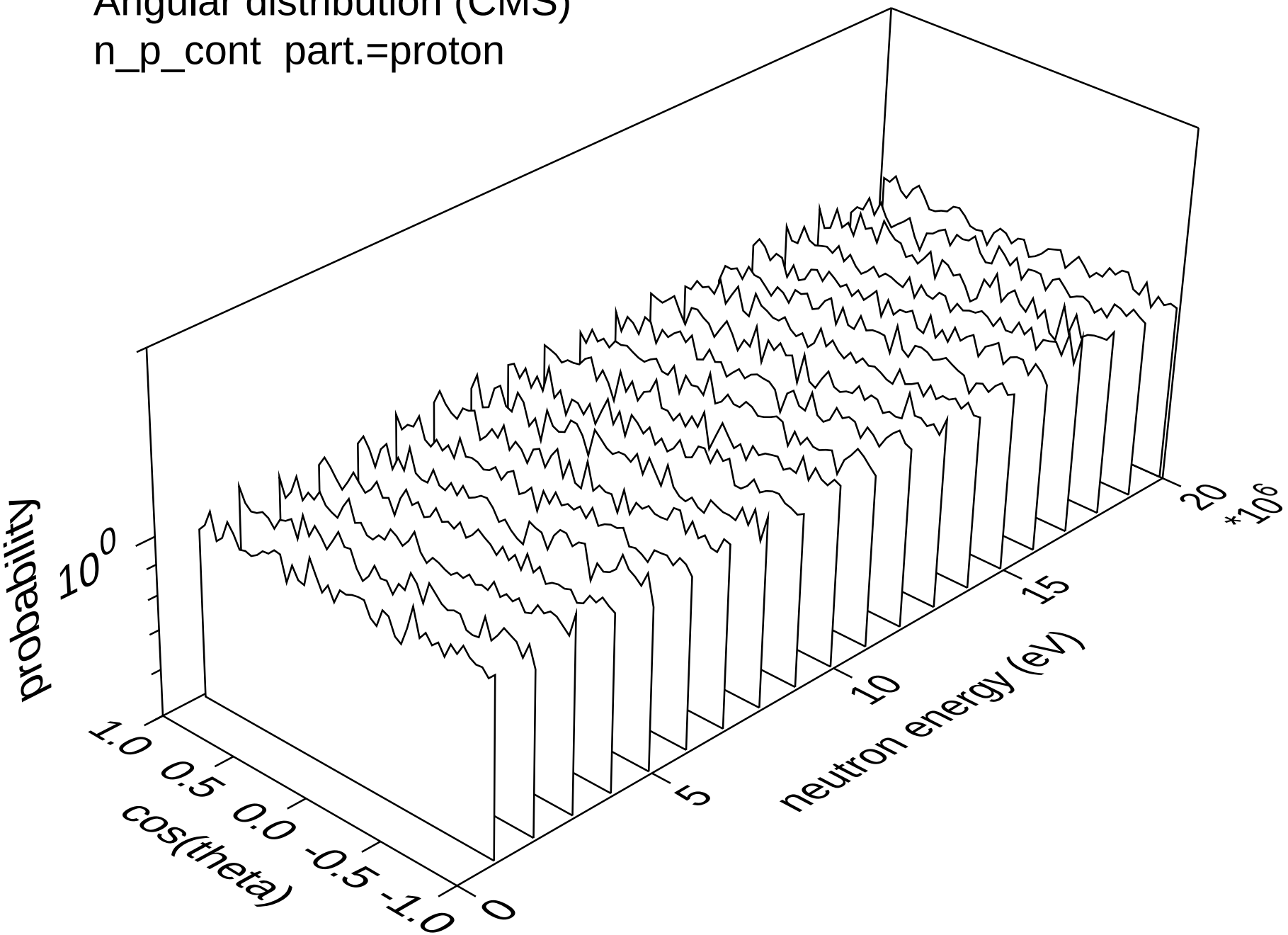

Angular distribution (CMS)
n_p_7
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
neutron energy (eV)
*10^6

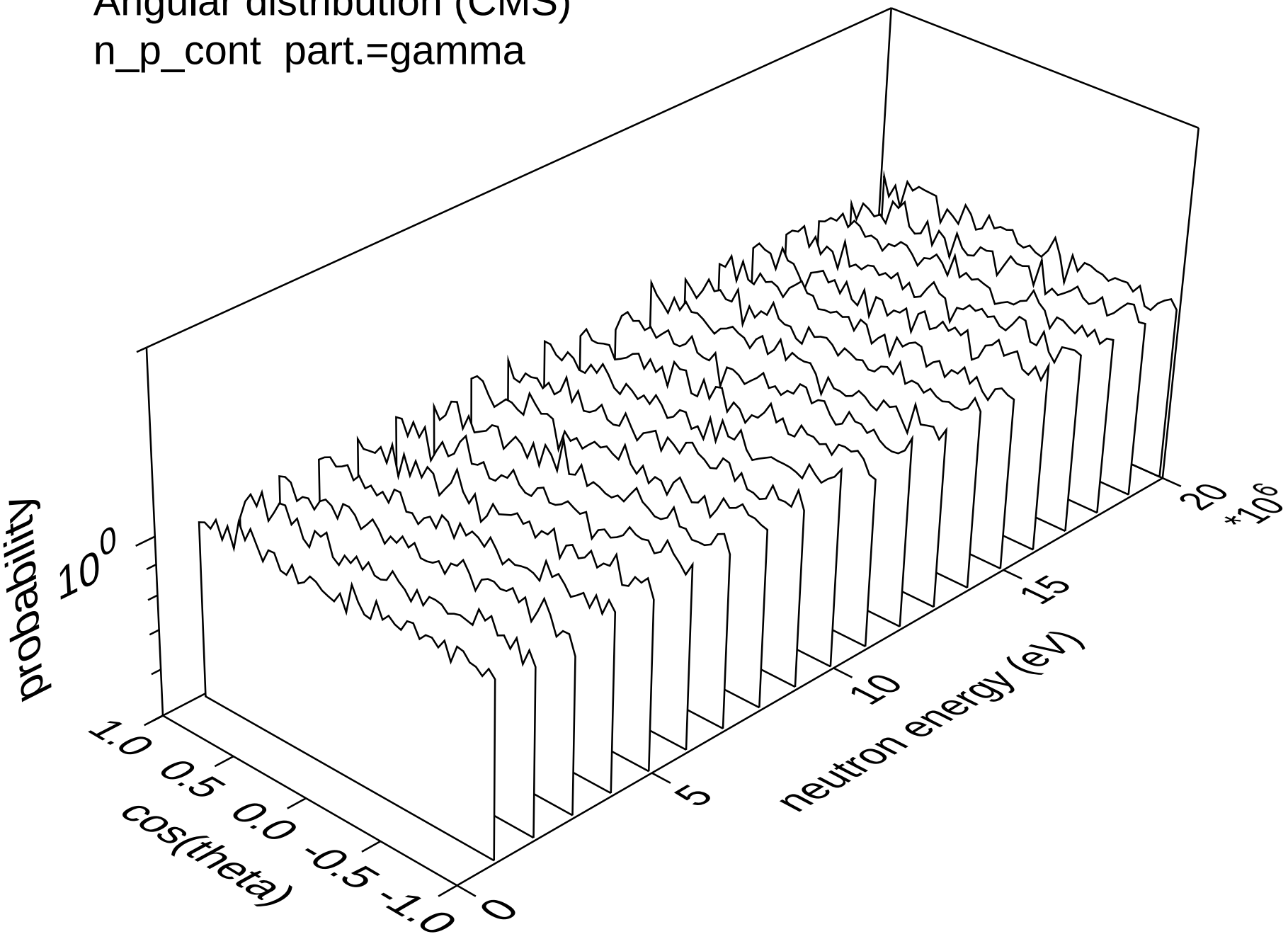

Angular distribution (CMS)
n_p_8
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

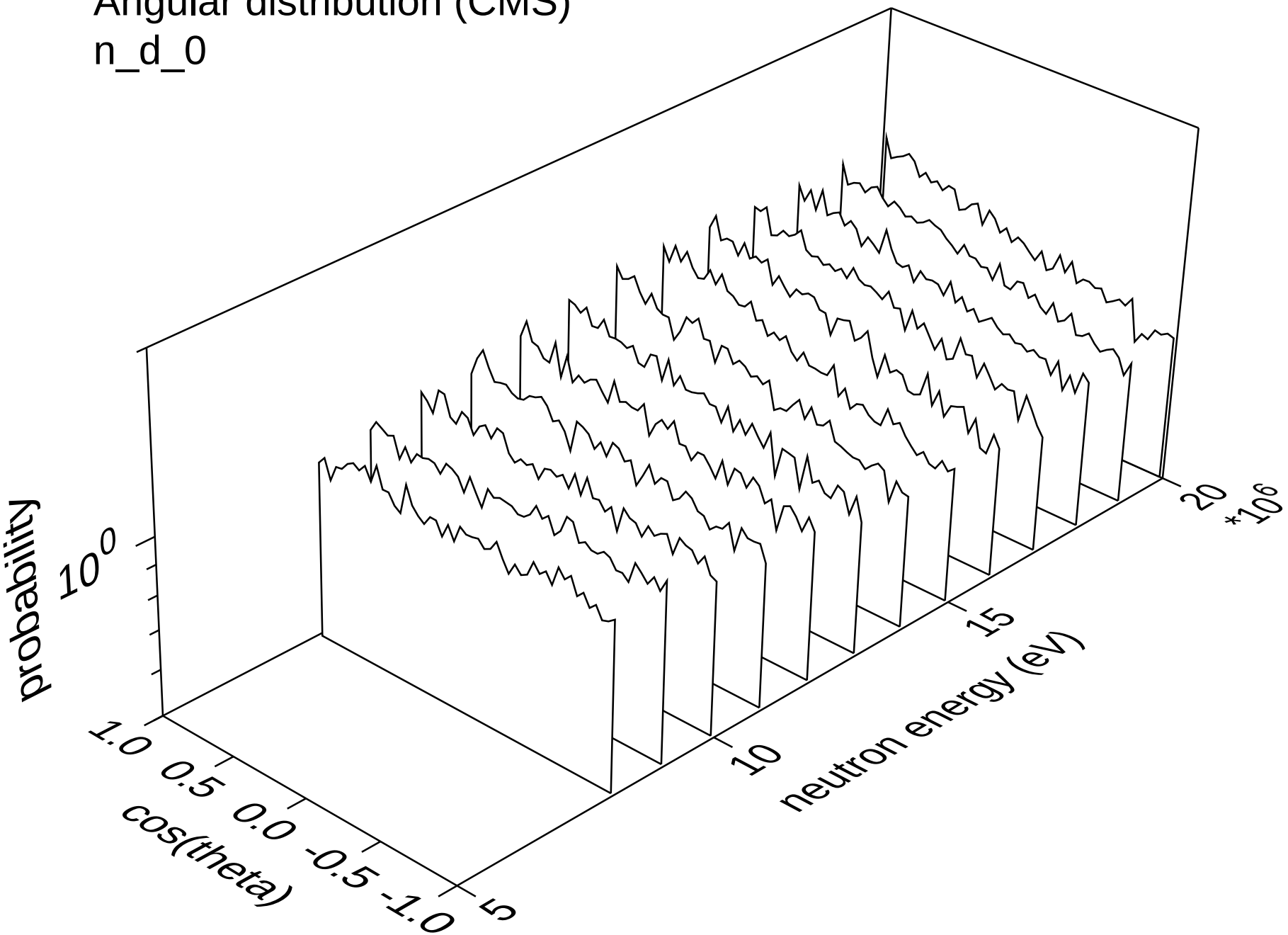

Angular distribution (CMS)
n_p_9
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

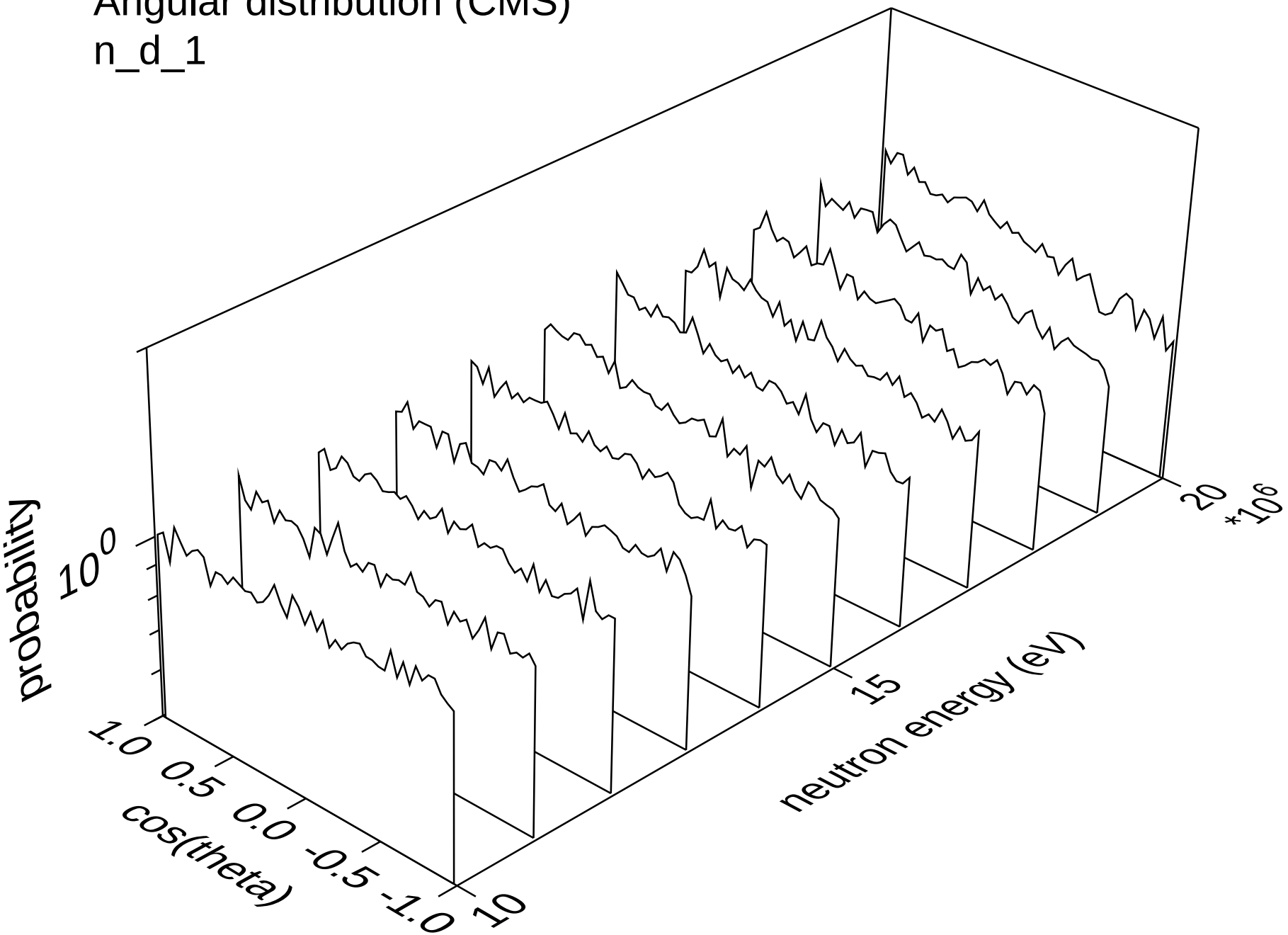

Angular distribution (CMS)
n_p_10
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

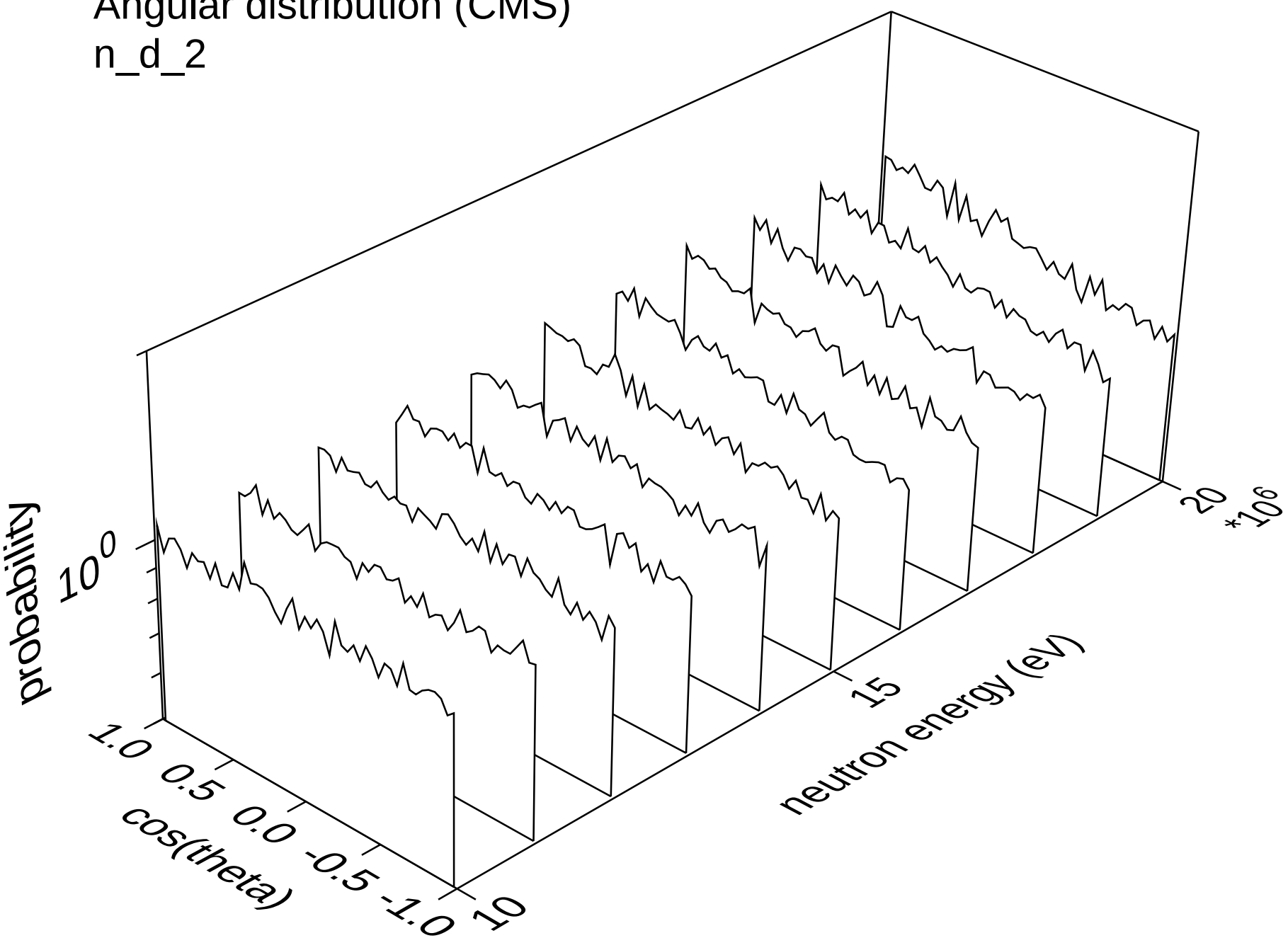

Angular distribution (CMS)
n_p_11
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

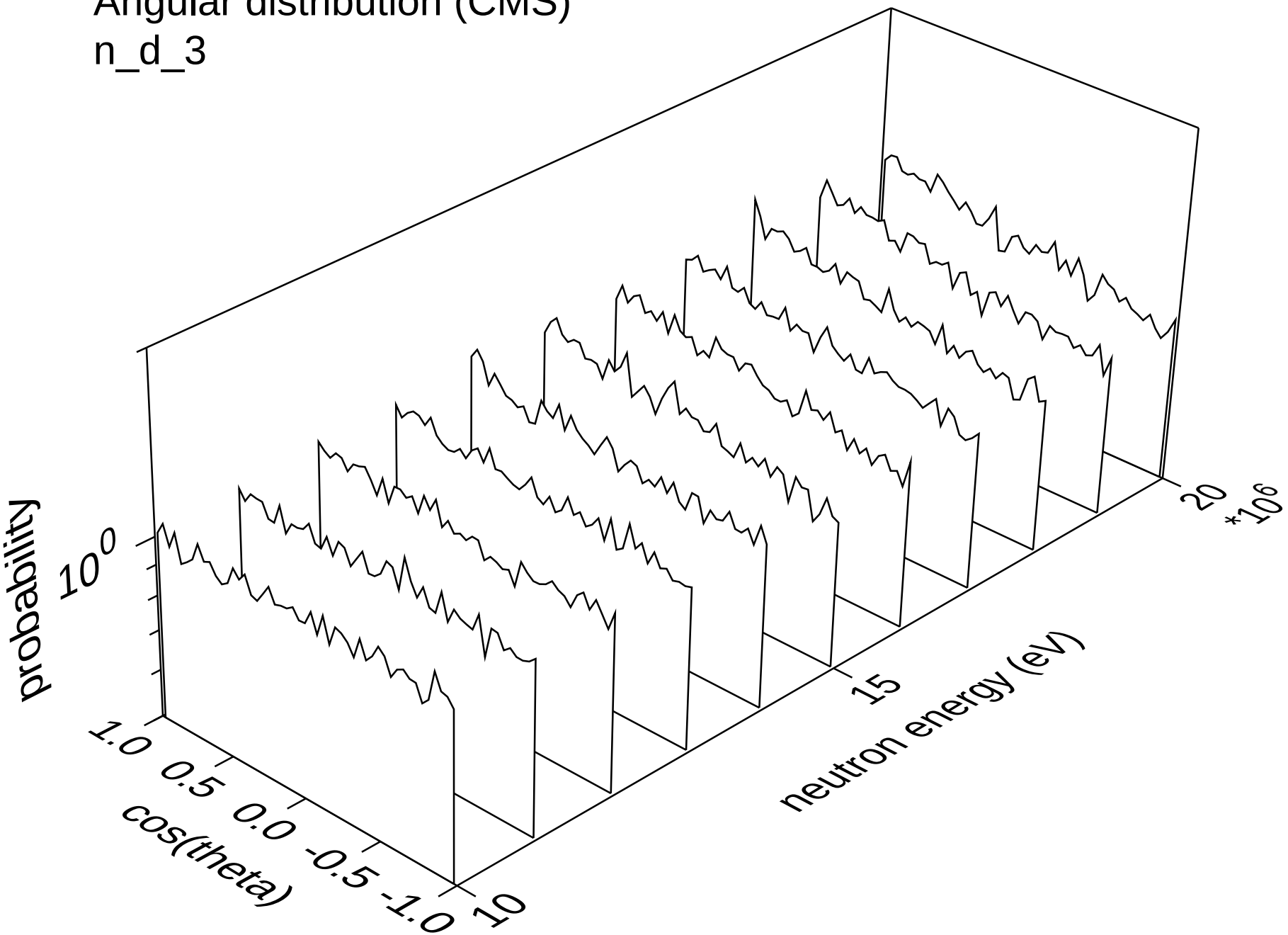

Angular distribution (CMS)
n_p_cont part.=proton
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

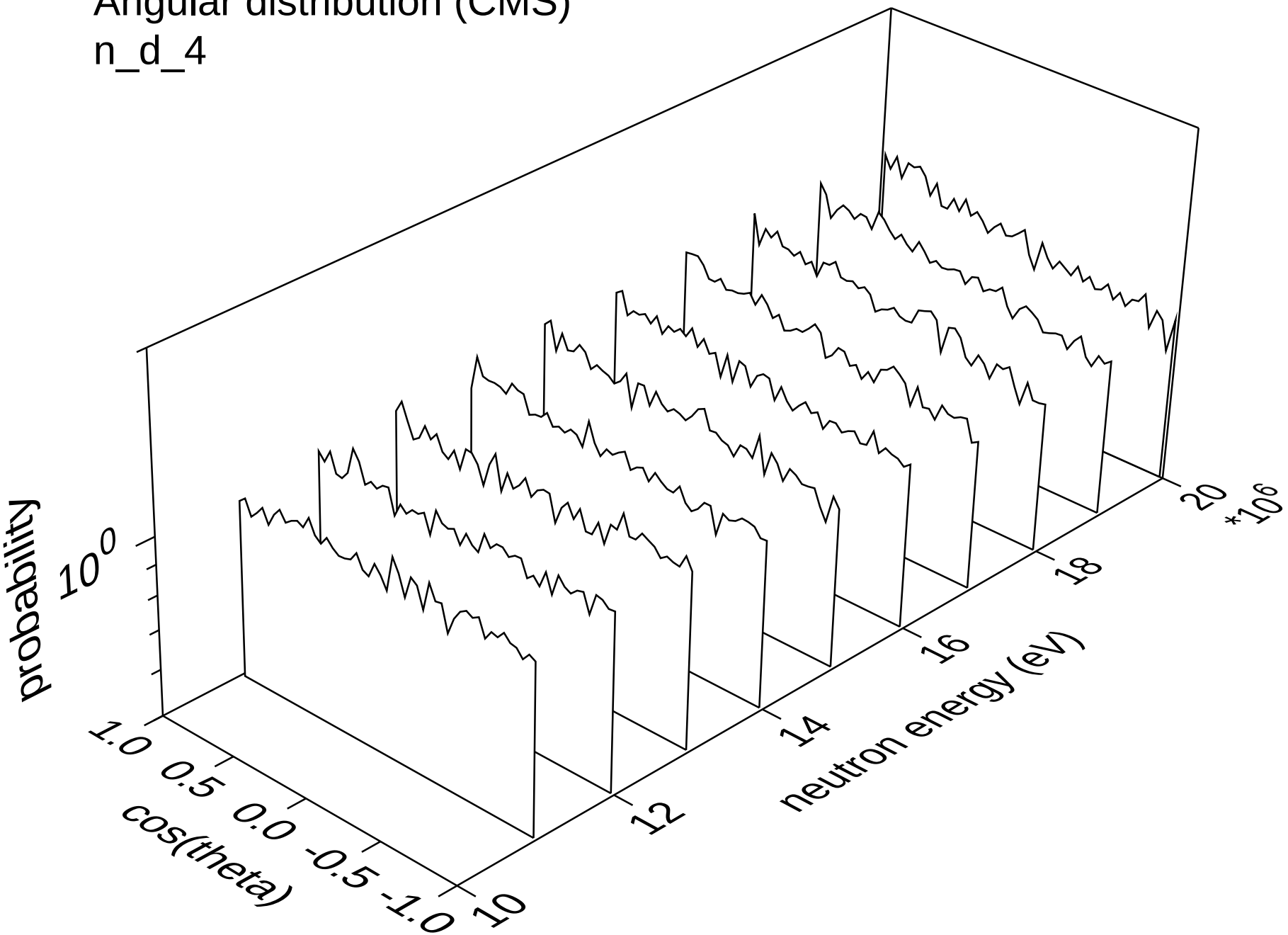

Angular distribution (CMS)
n_p_cont part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

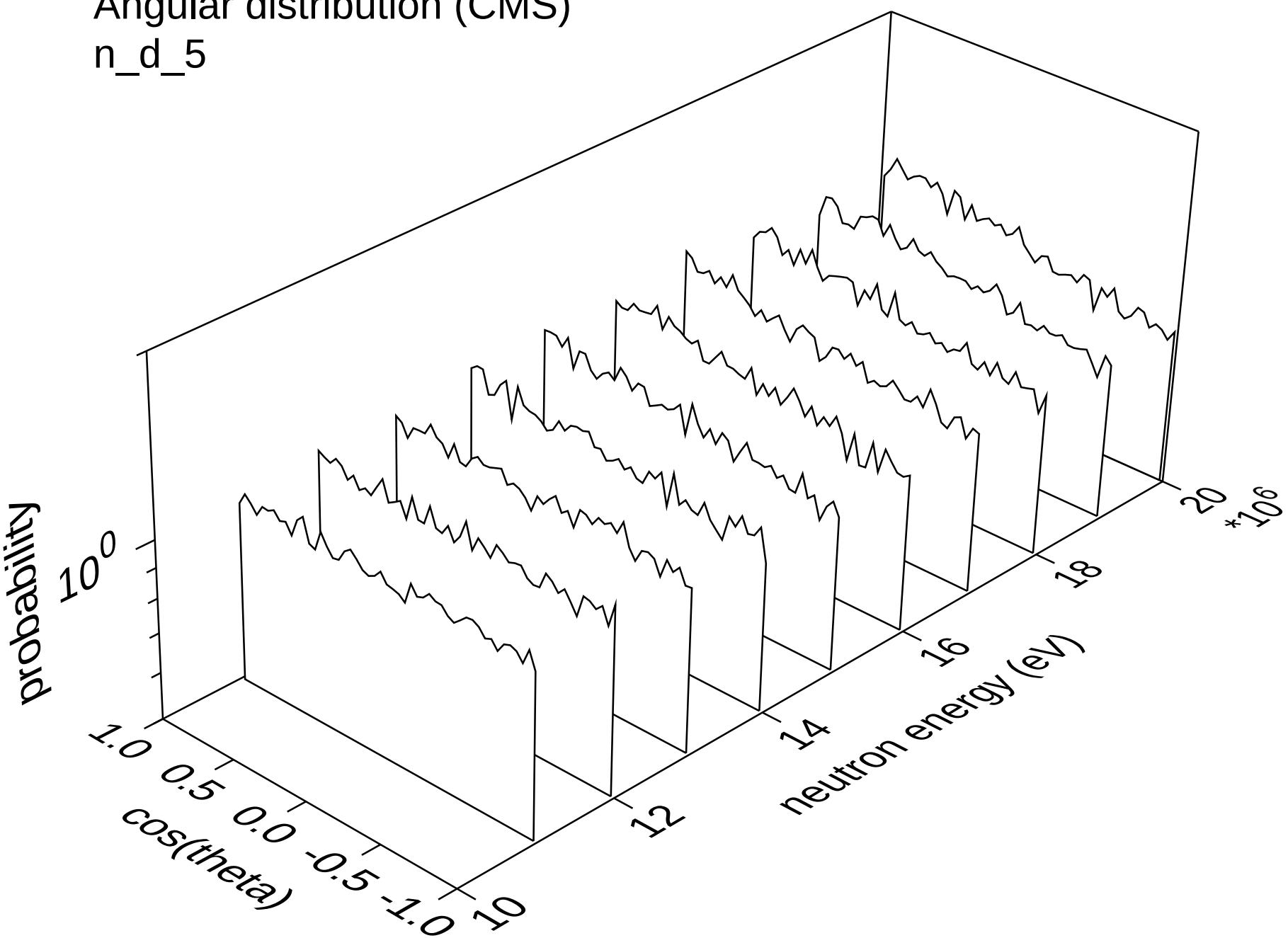

Angular distribution (CMS)
n_d_0
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

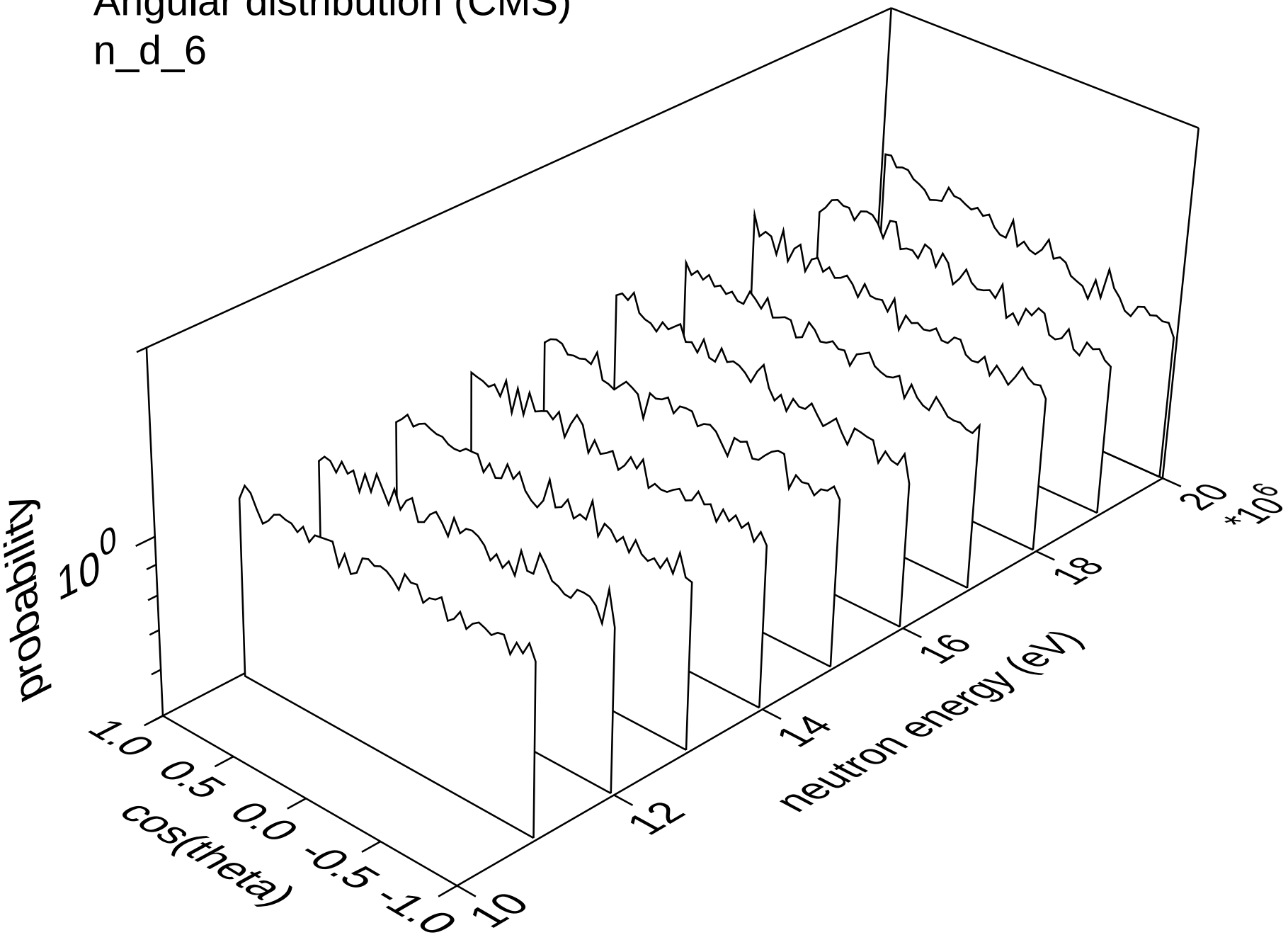

Angular distribution (CMS)
n_d_1
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
*10^6
neutron energy (eV)

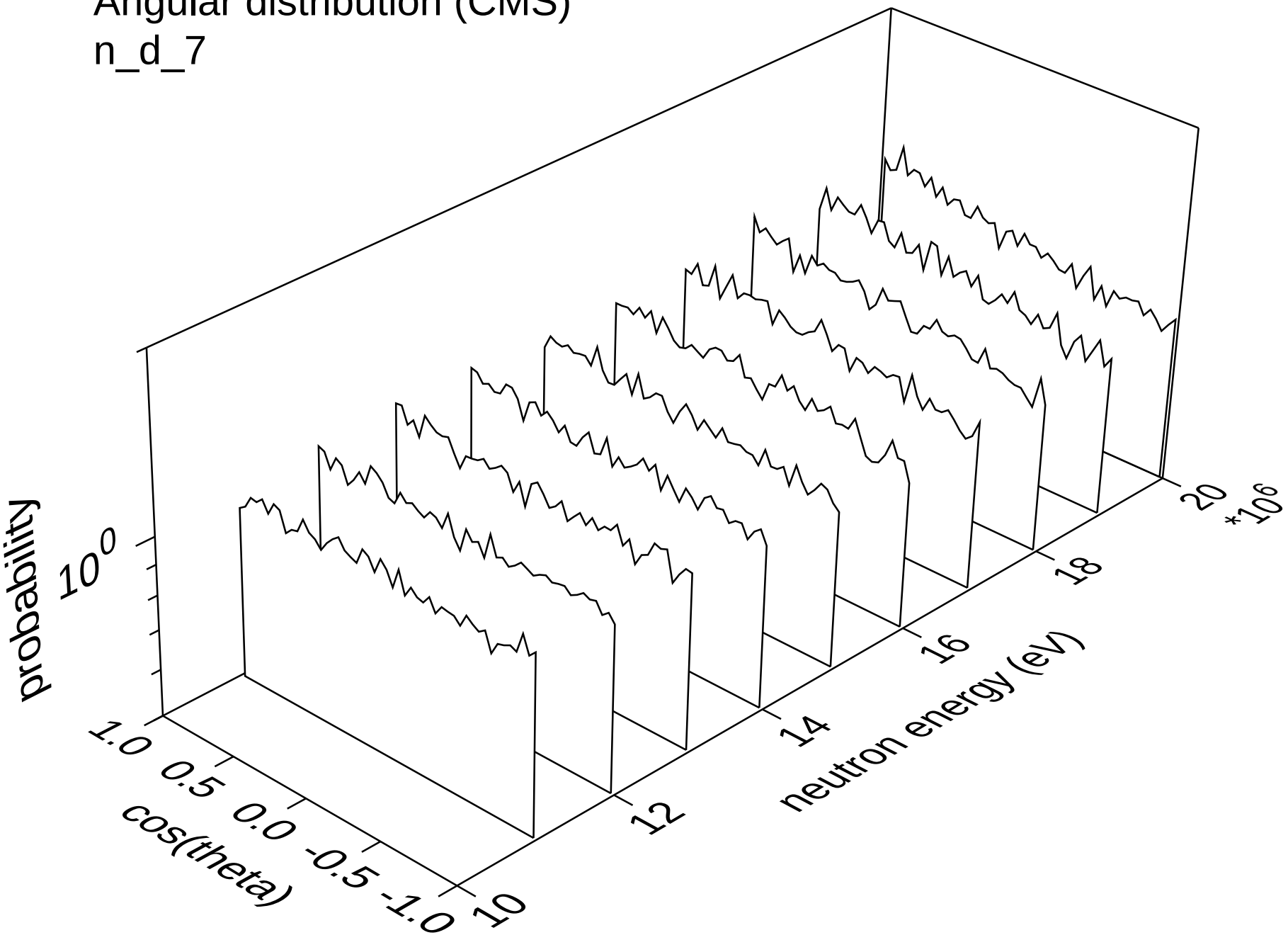

Angular distribution (CMS)
n_d_2
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
*10^6
neutron energy (eV)

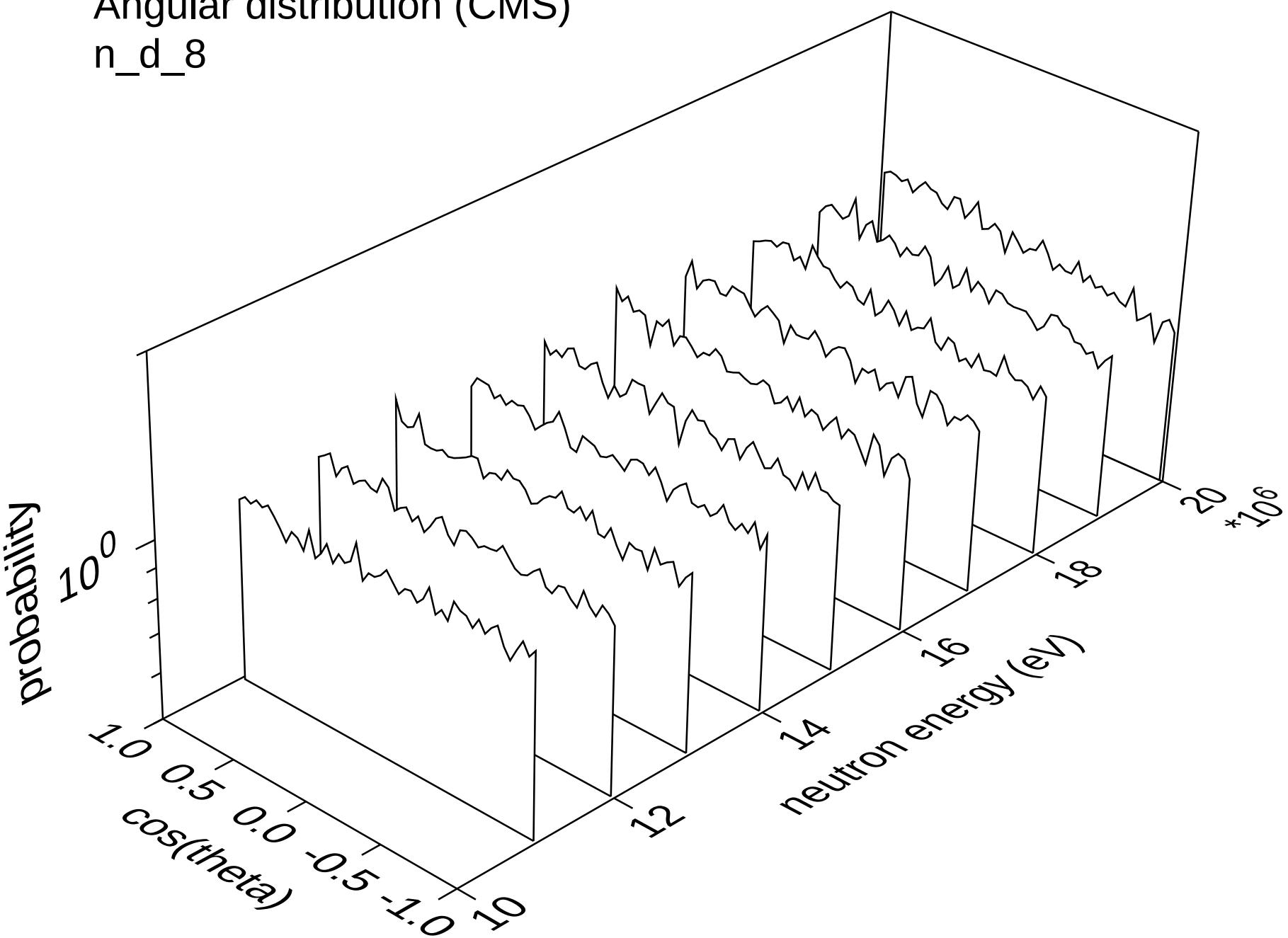

Angular distribution (CMS)
n_d_3
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
*10^6
neutron energy (eV)

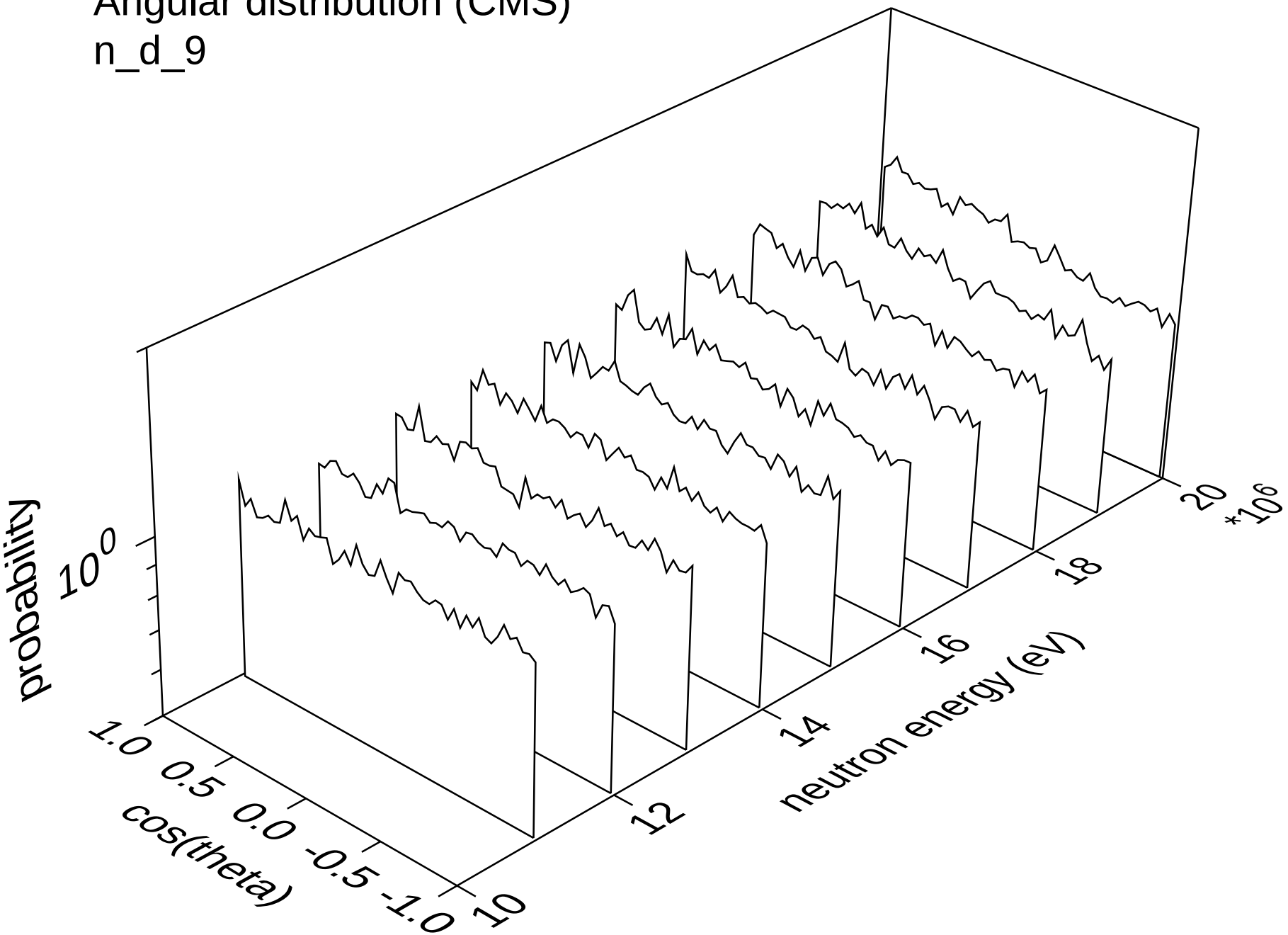

Angular distribution (CMS)
n_d_4
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

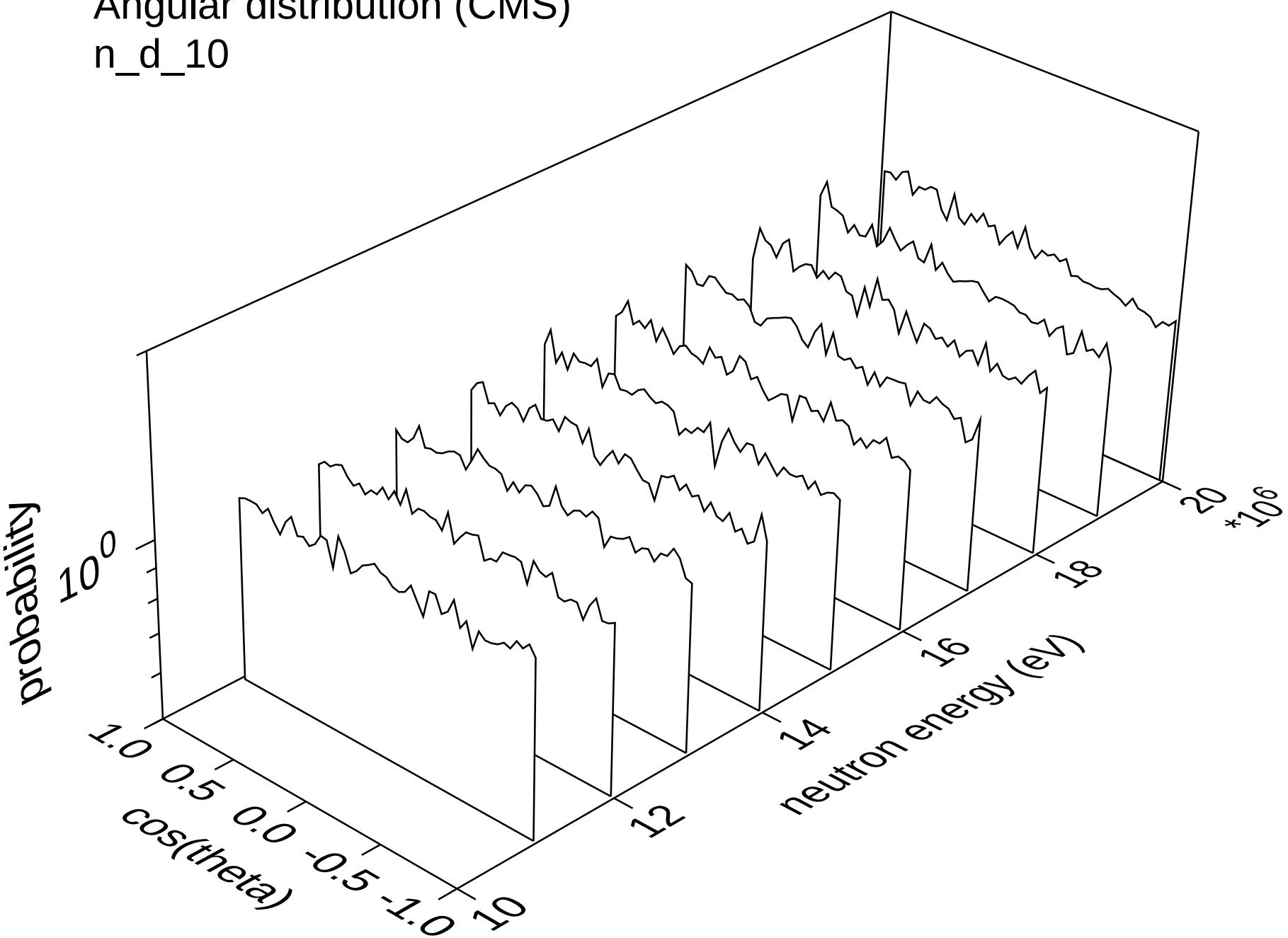

Angular distribution (CMS)
n_d_5
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

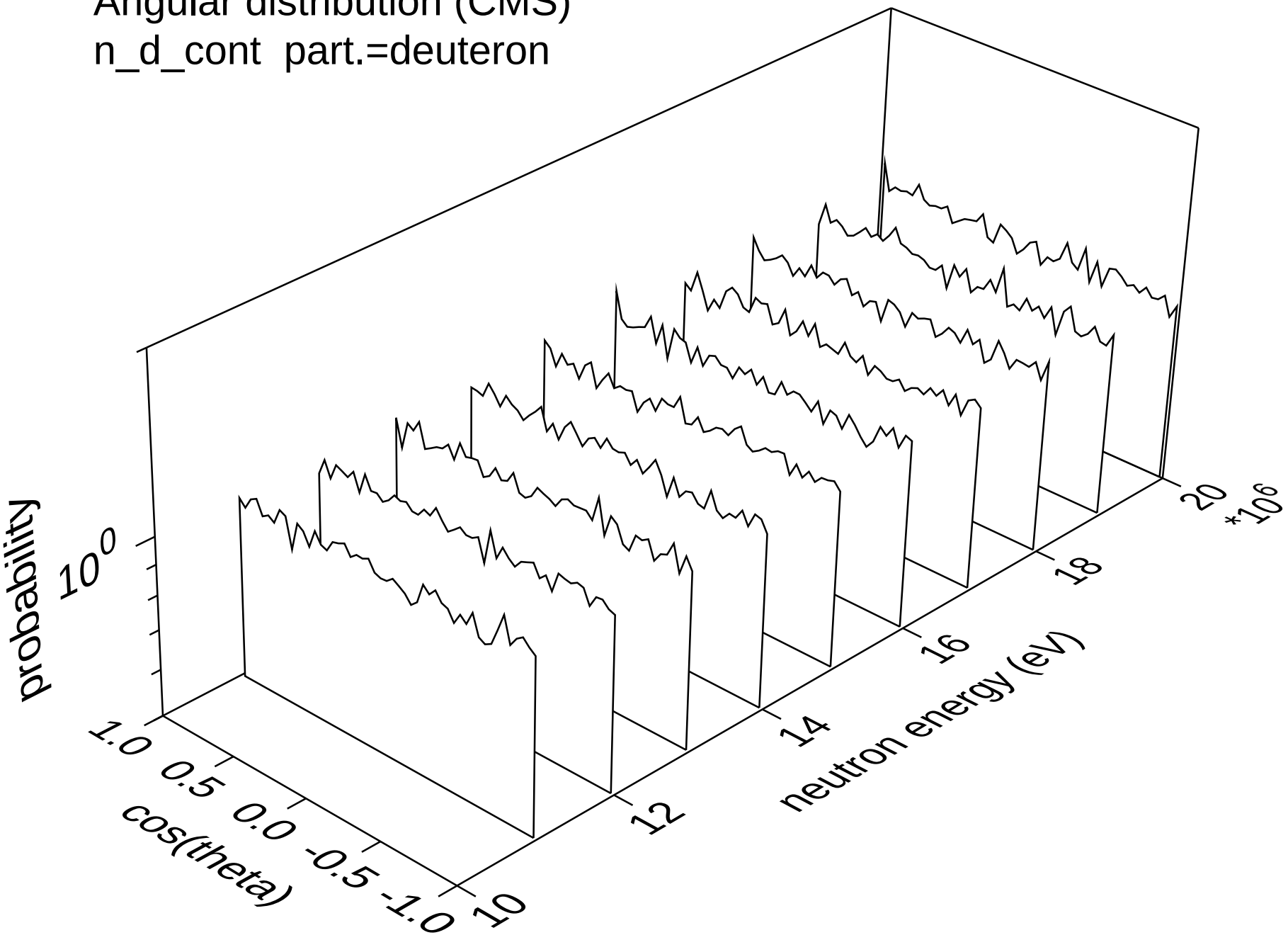

Angular distribution (CMS)
n_d_6
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

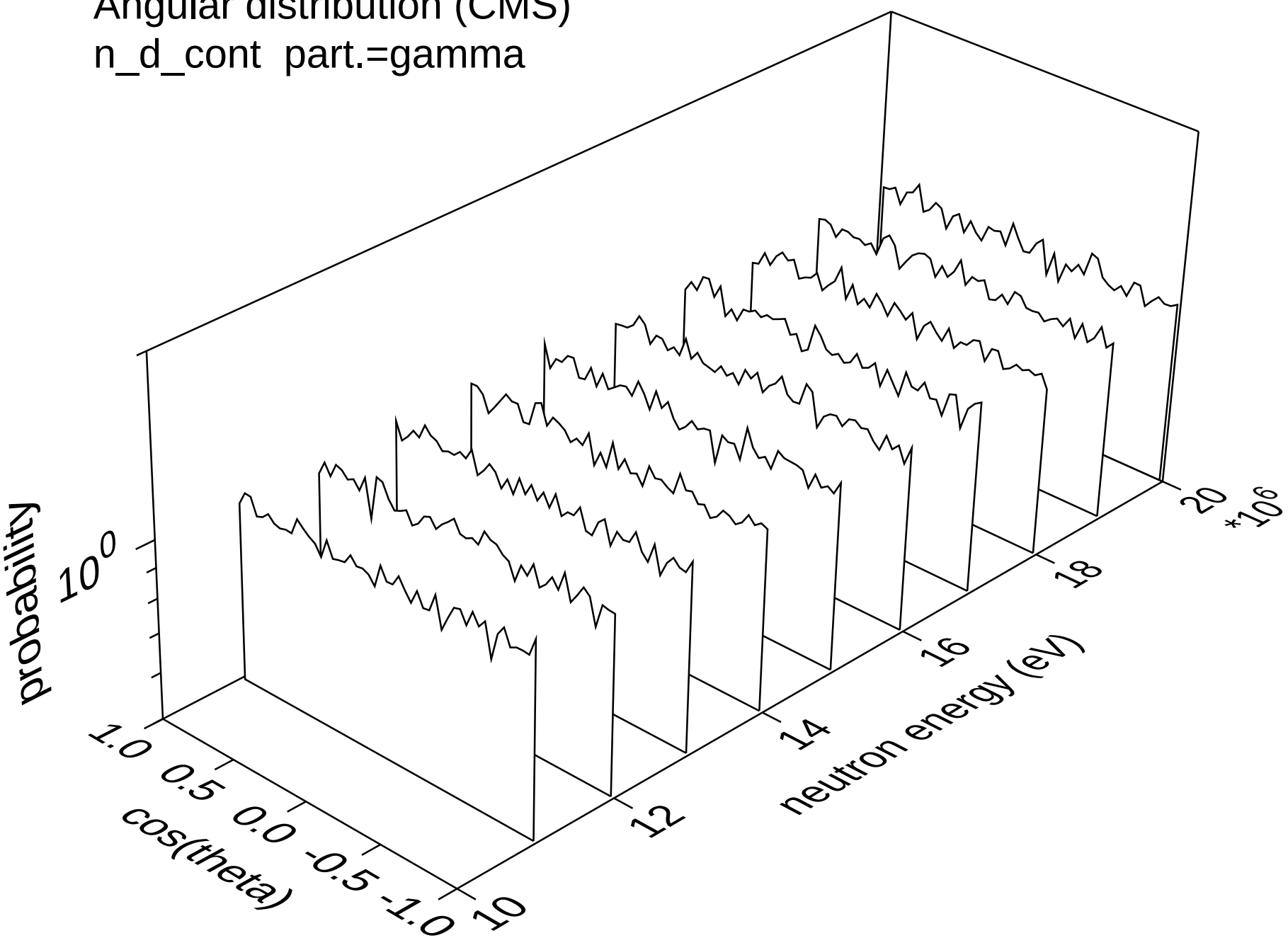

Angular distribution (CMS)
n_d_7
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

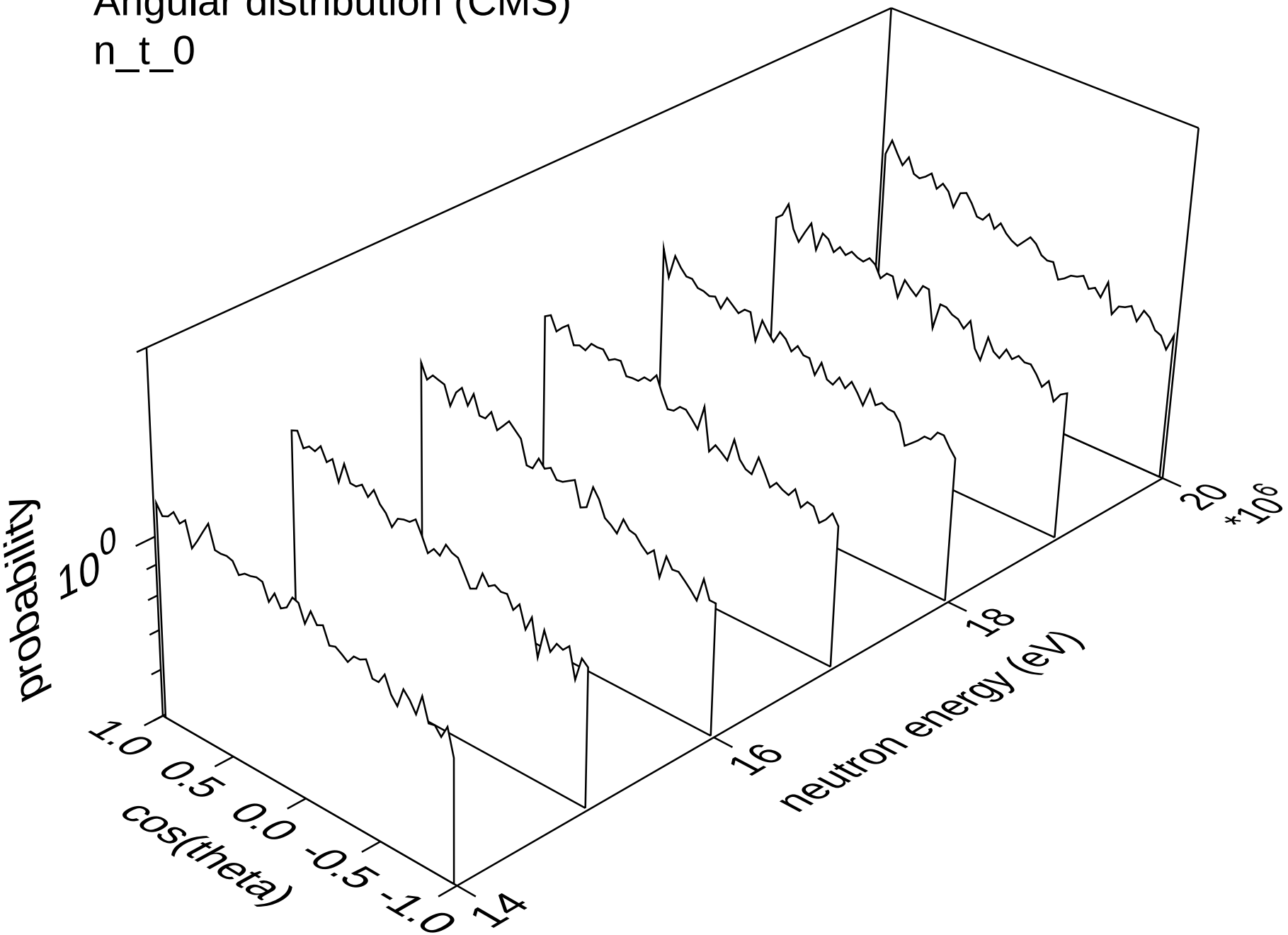

Angular distribution (CMS)
n_d_8
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

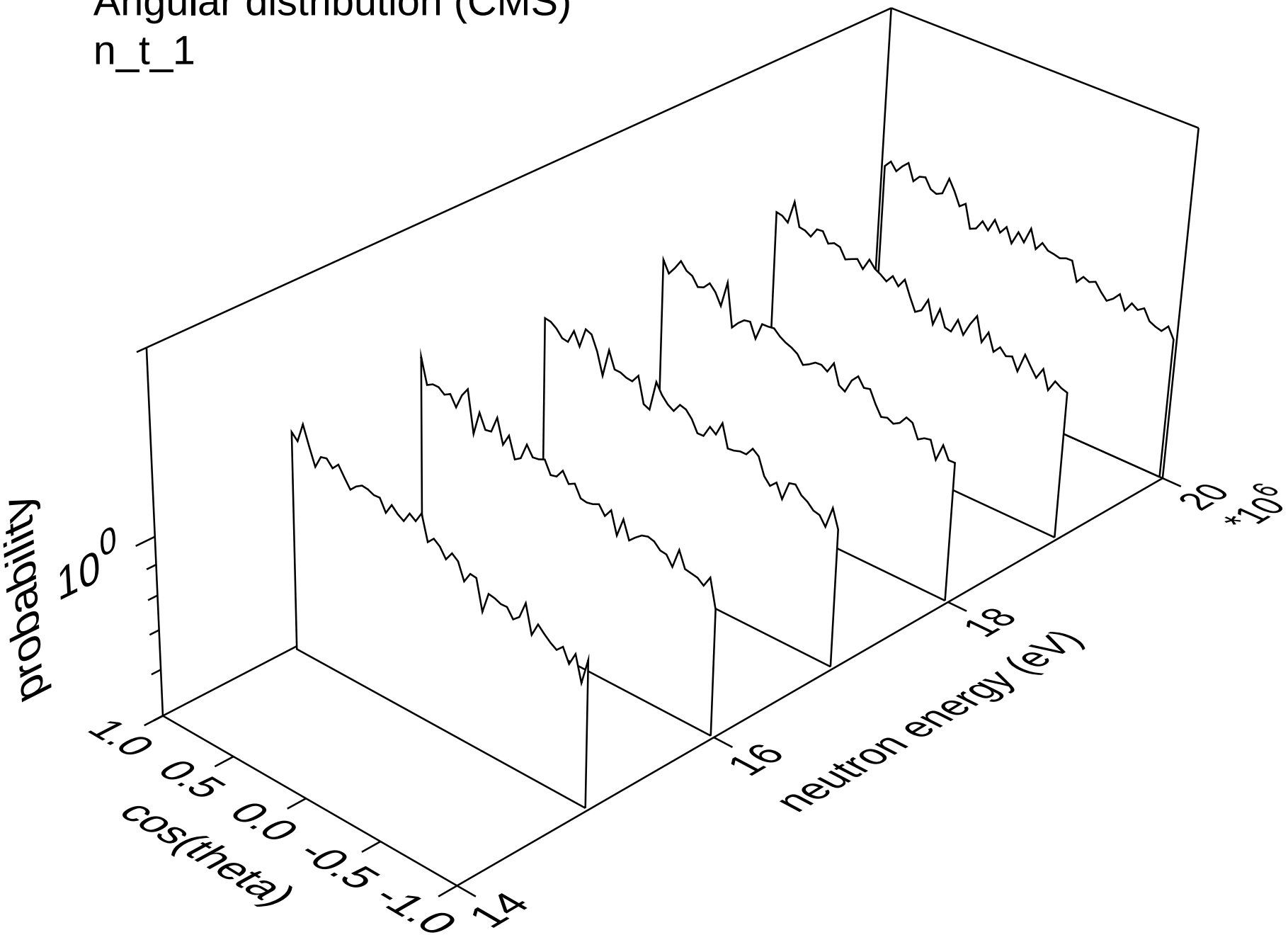

Angular distribution (CMS)
n_d_9
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

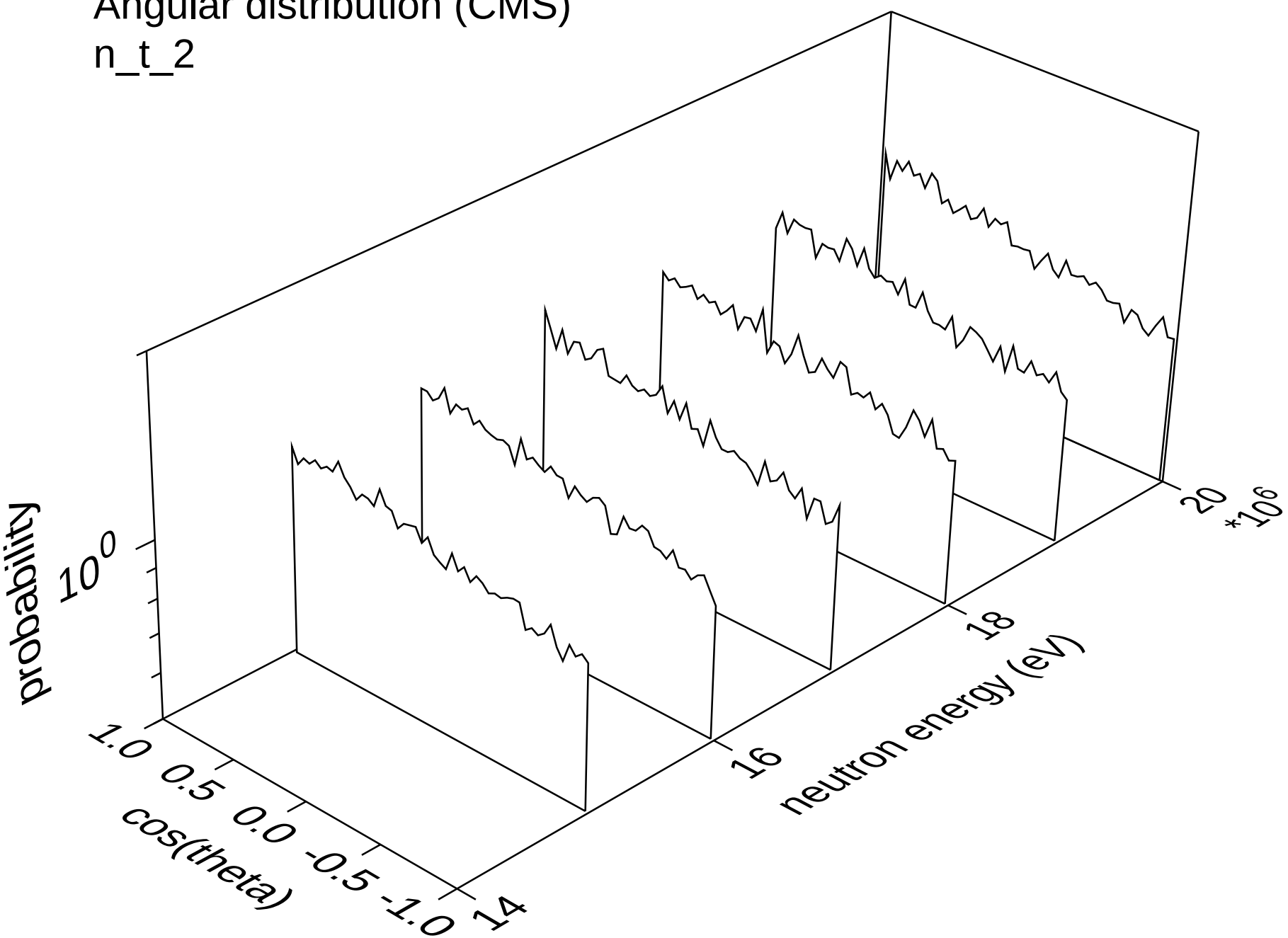

Angular distribution (CMS)
n_d_10
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

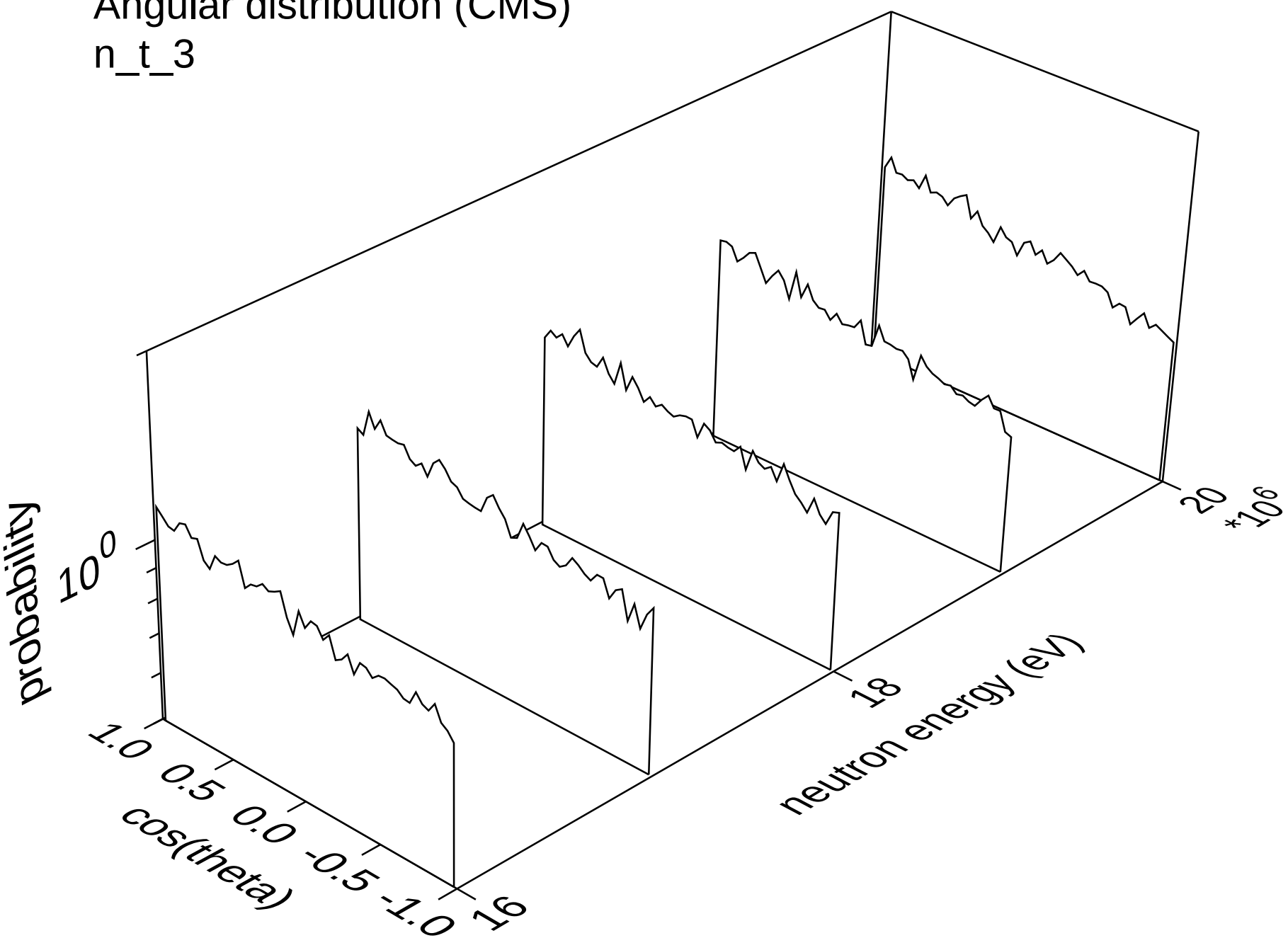

Angular distribution (CMS)
n_d_cont part.=deuteron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

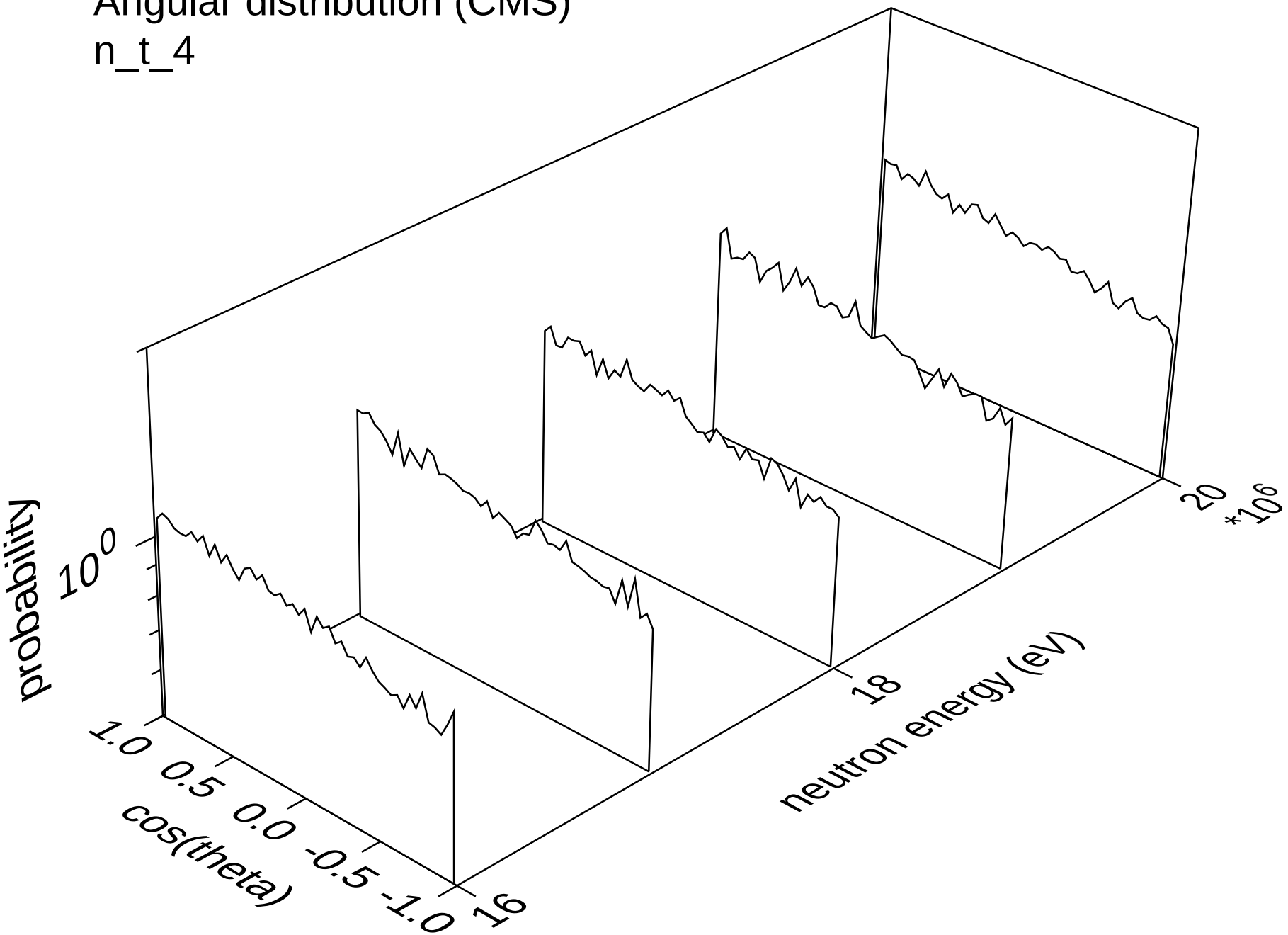

Angular distribution (CMS)
n_d_cont part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

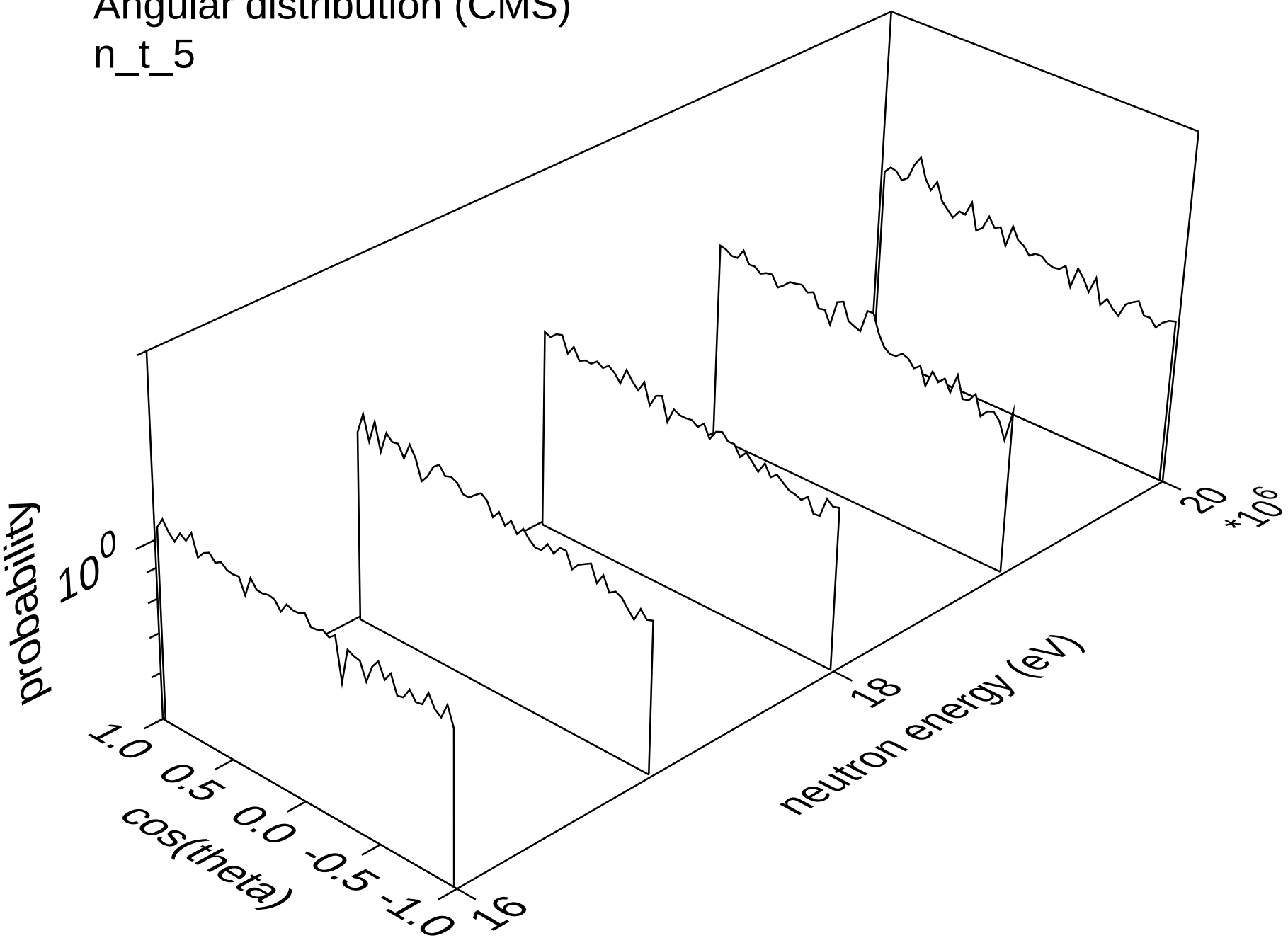

Angular distribution (CMS)
n_t_0
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
14
16
18
20
*10^6
neutron energy (eV)

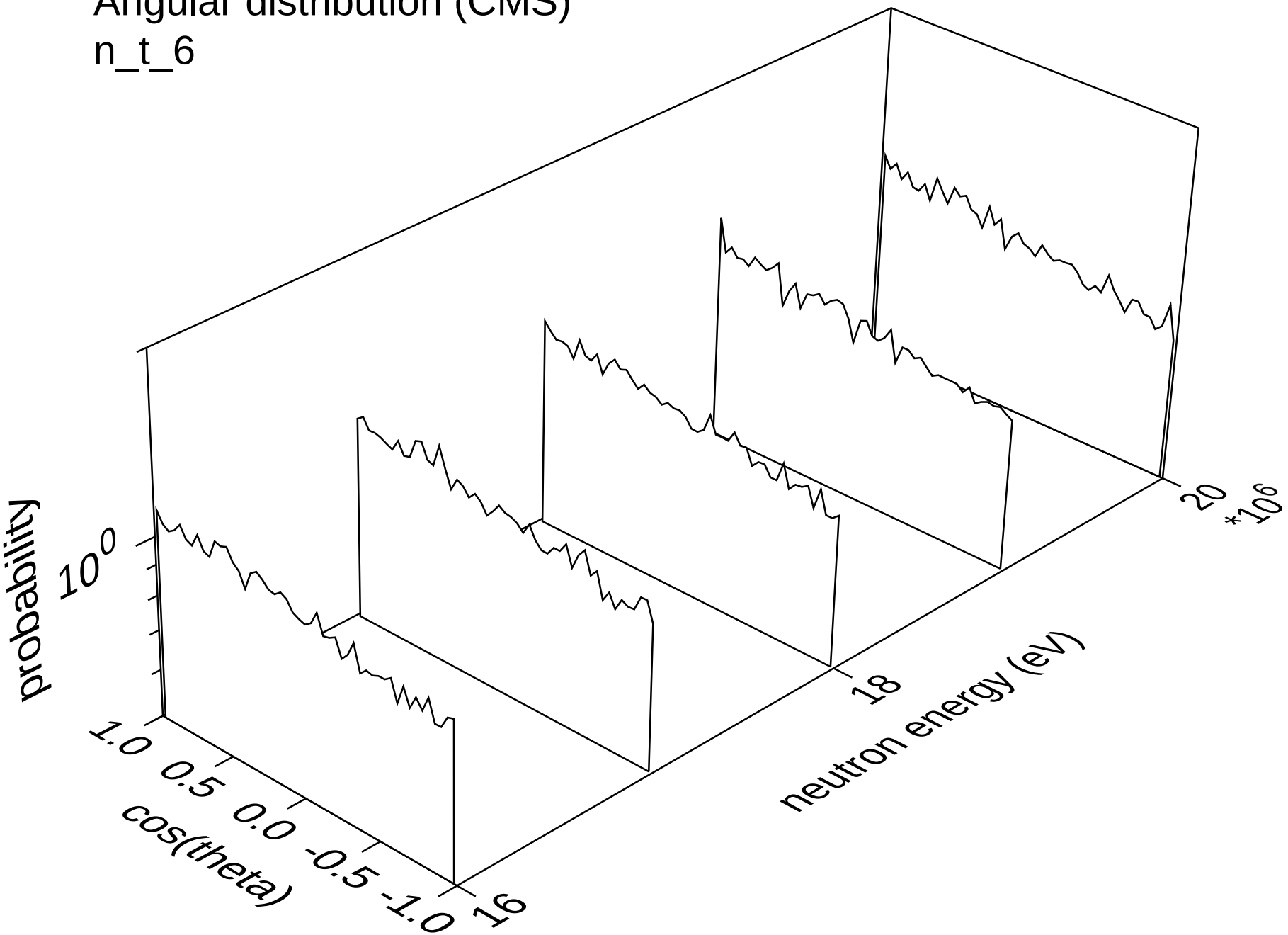

Angular distribution (CMS)
n_t_1
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
14
16
18
20
*10^6
neutron energy (eV)

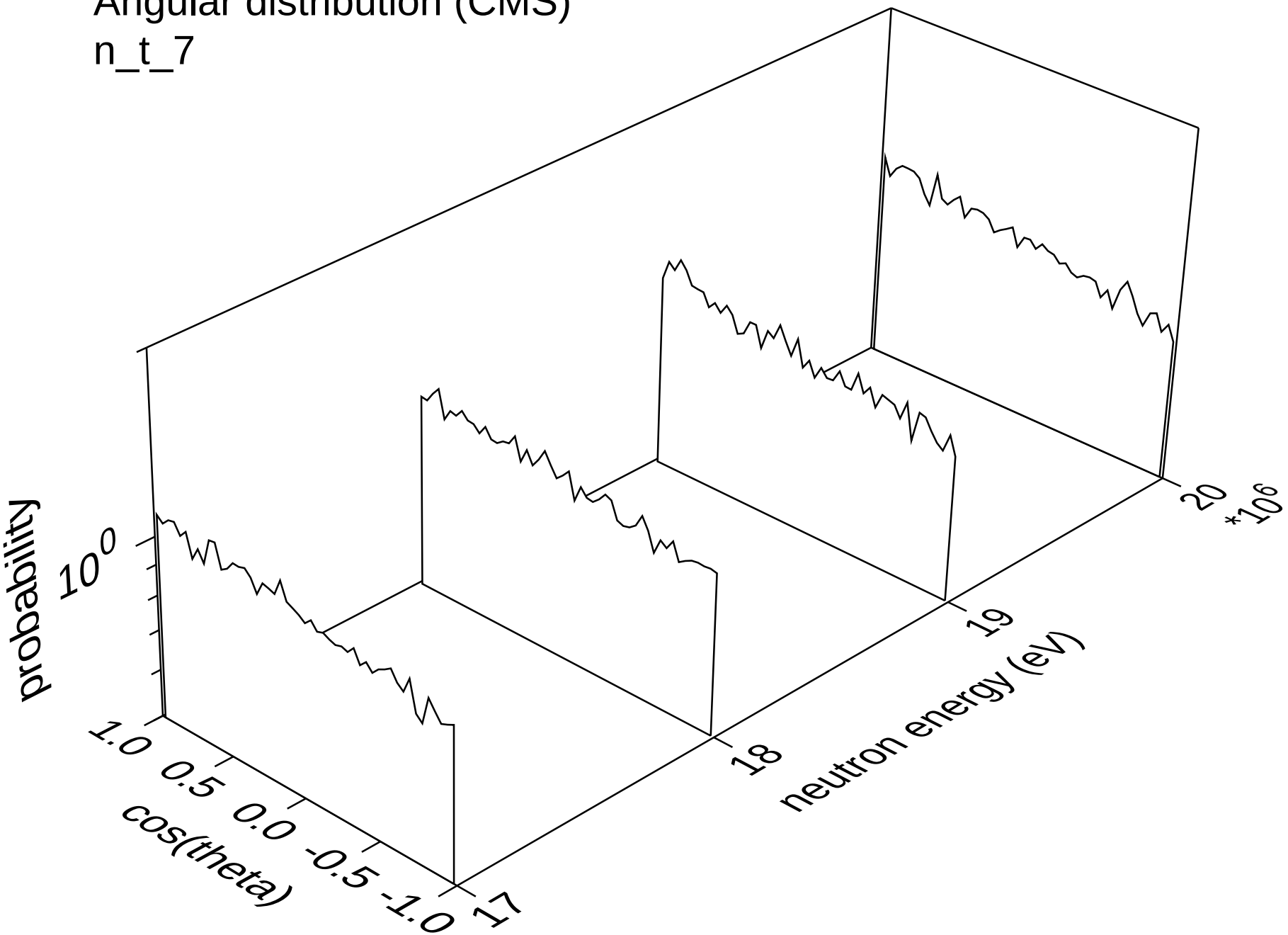

Angular distribution (CMS)
n_t_2
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
14
16
18
20
*10^6
neutron energy (eV)

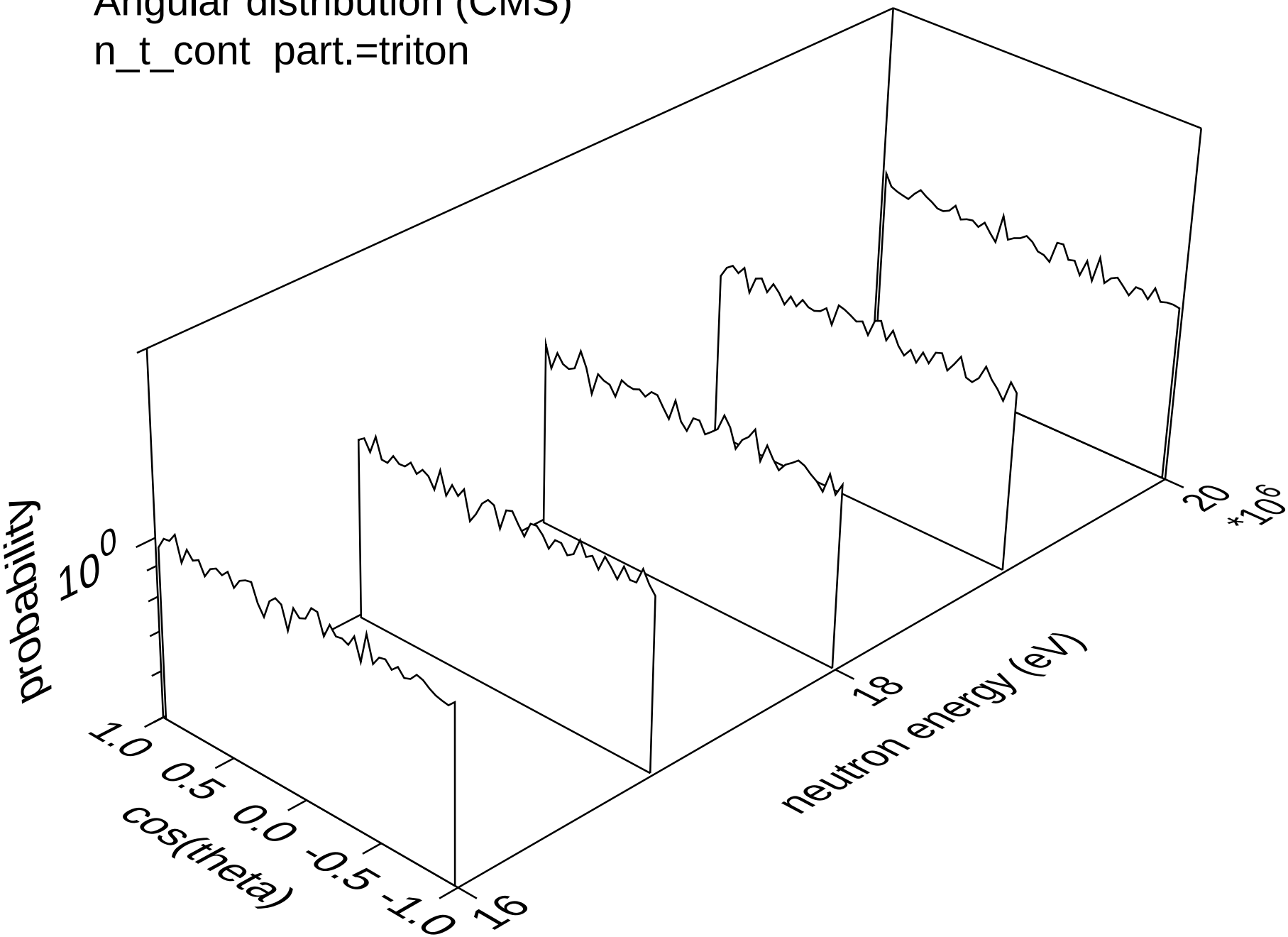

Angular distribution (CMS)
n_t_3
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

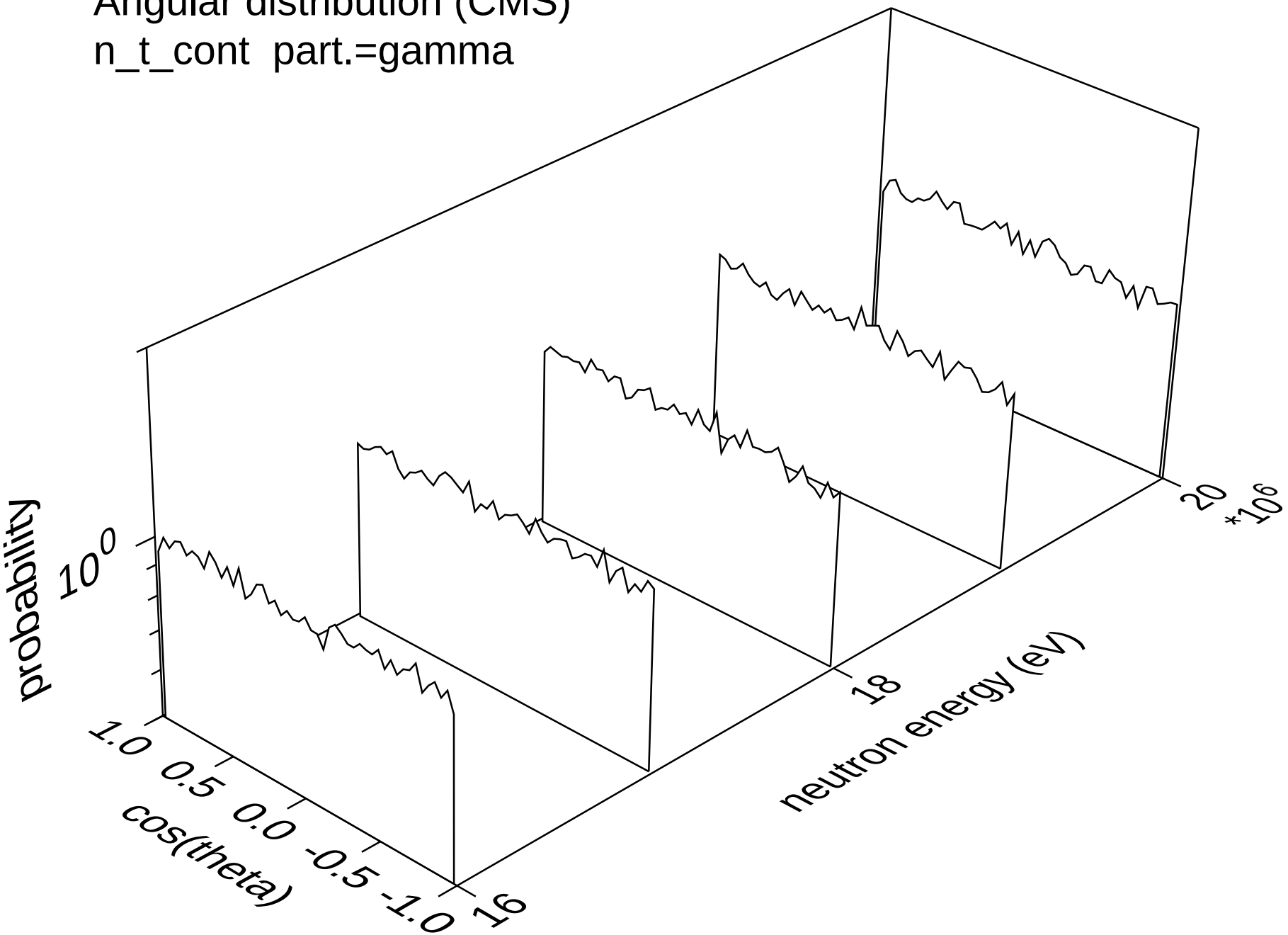

Angular distribution (CMS)
n_t_4
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

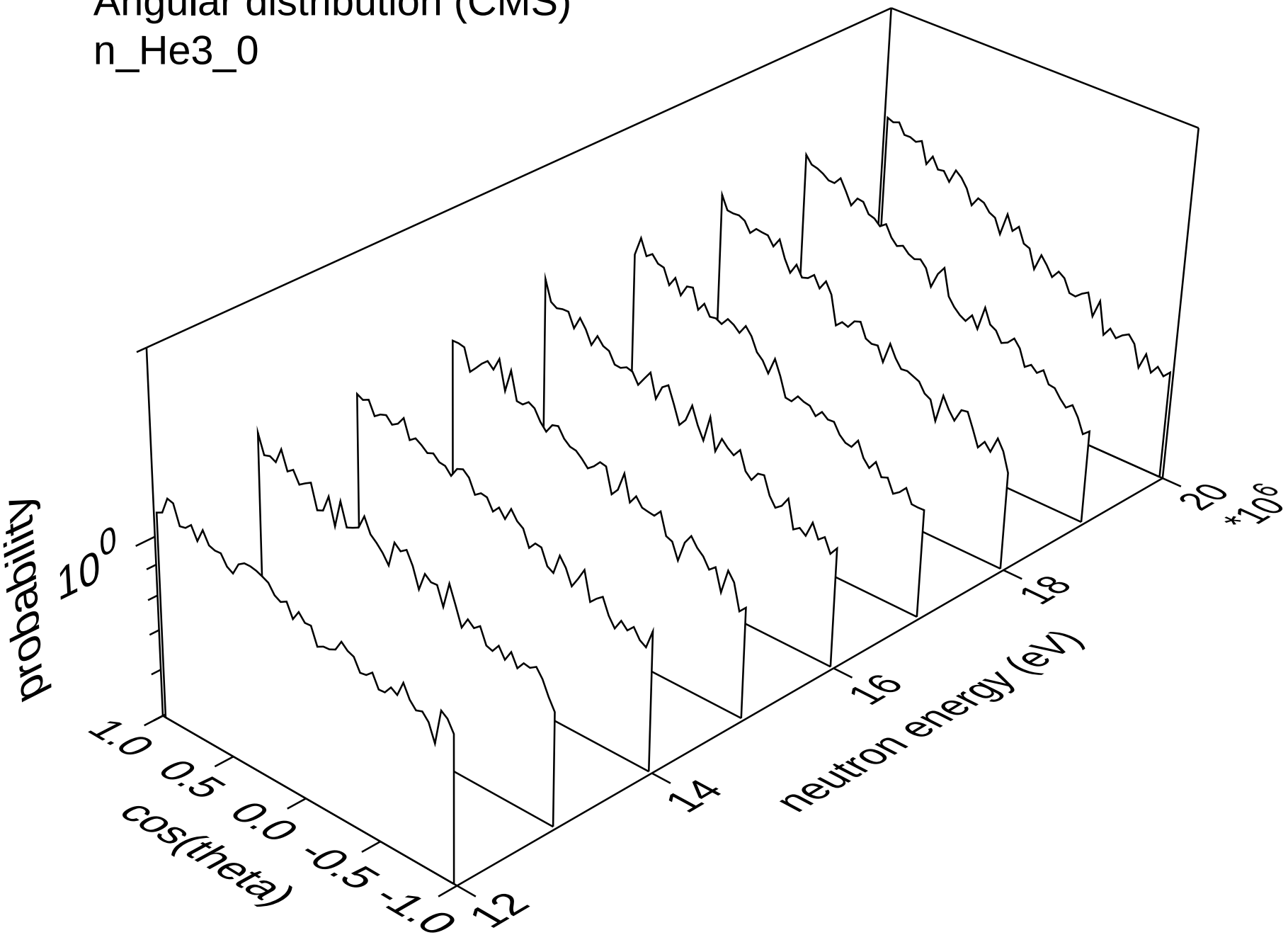

Angular distribution (CMS)
n_t_5
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

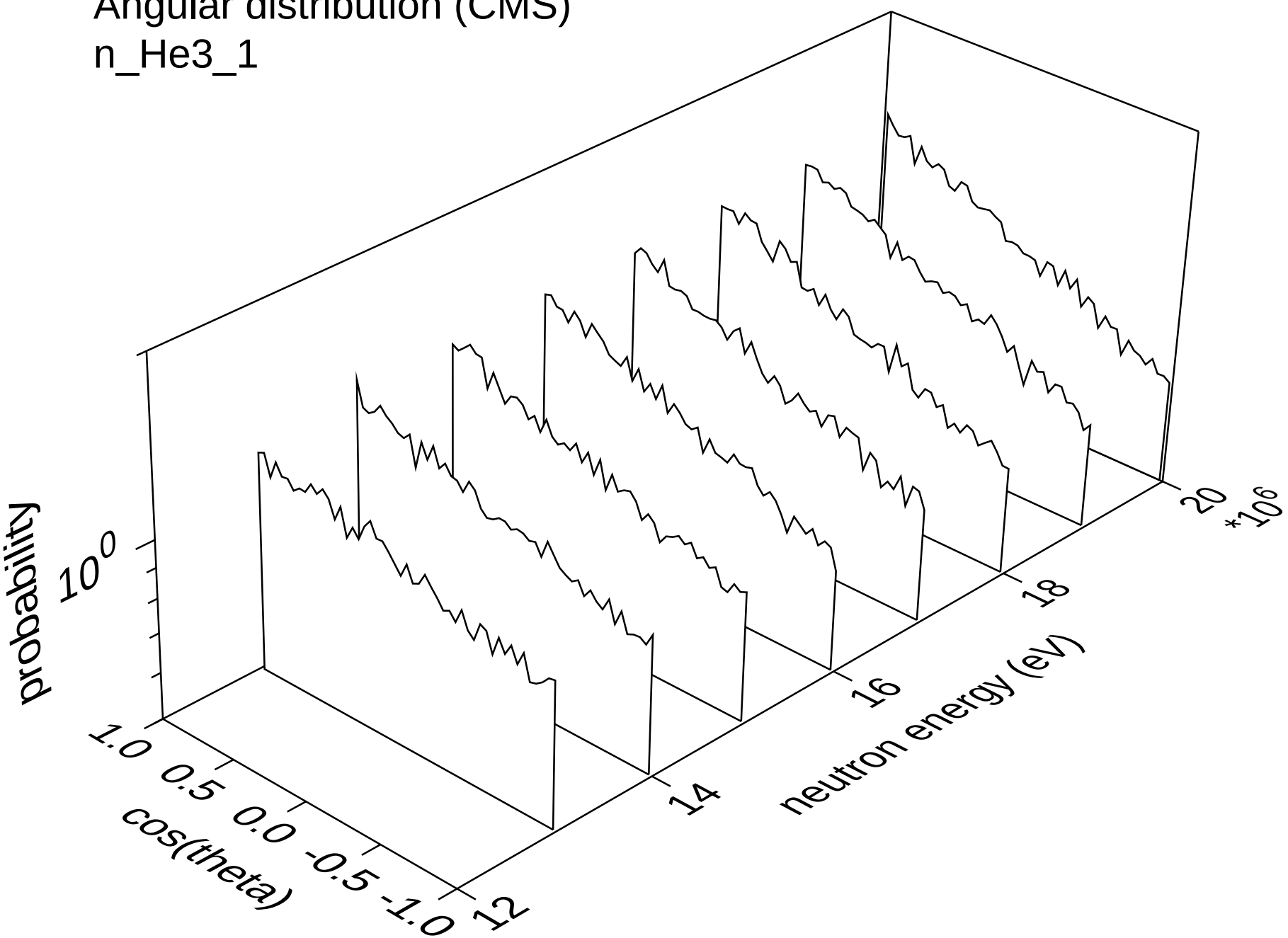

Angular distribution (CMS)
n_t_6
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

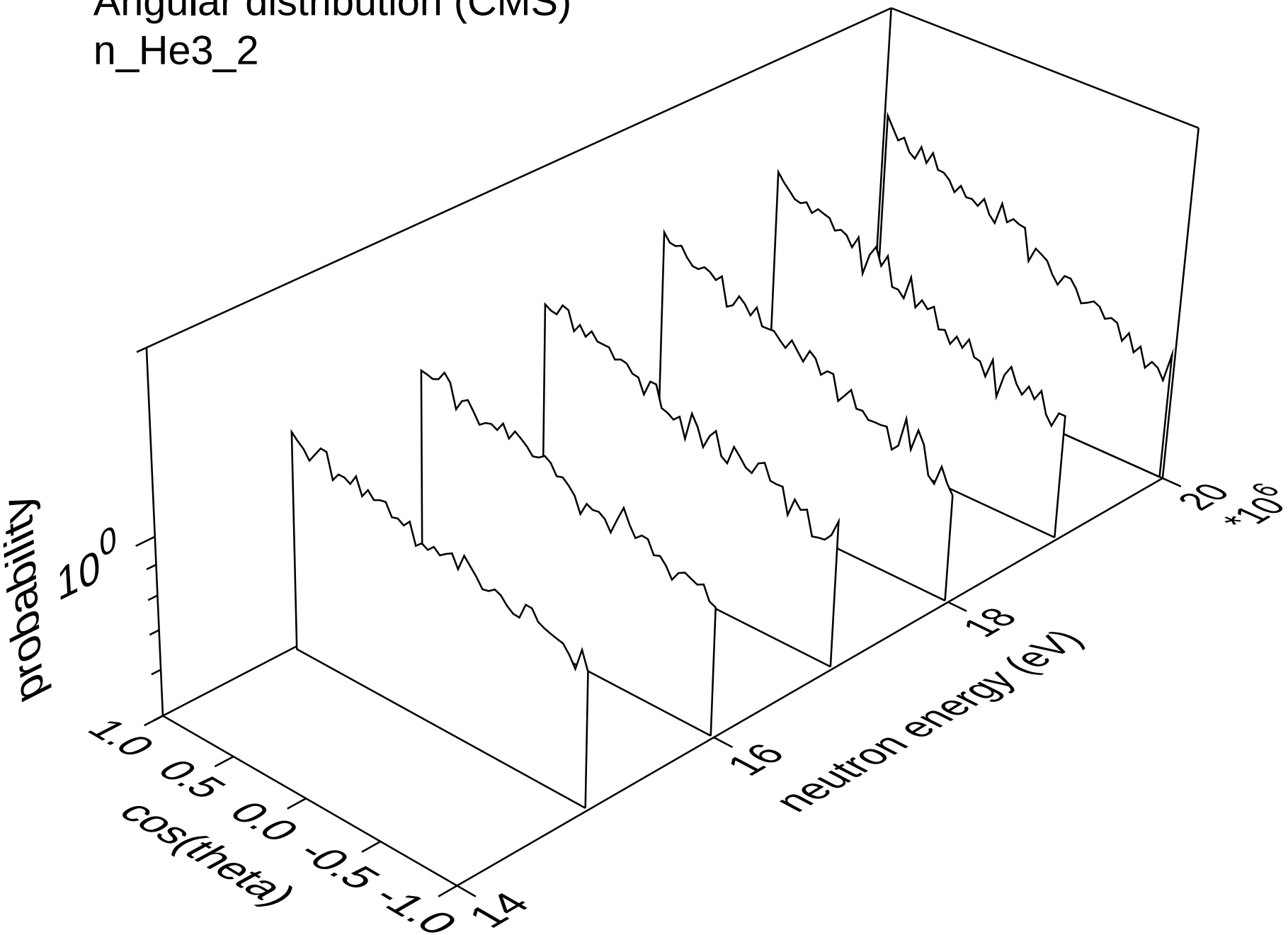

Angular distribution (CMS)
n_t_7
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)

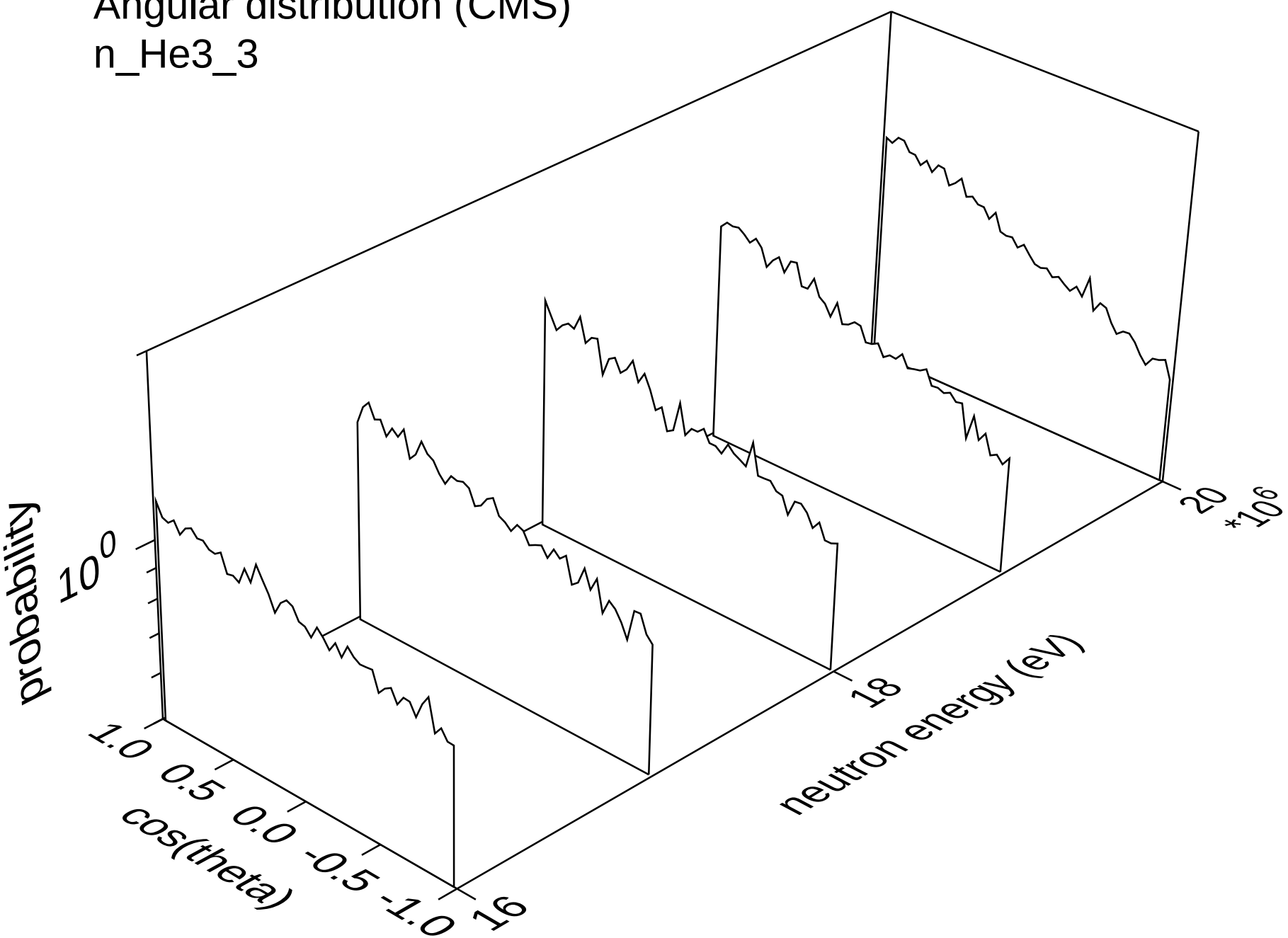

Angular distribution (CMS)
n_t_cont part.=triton
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

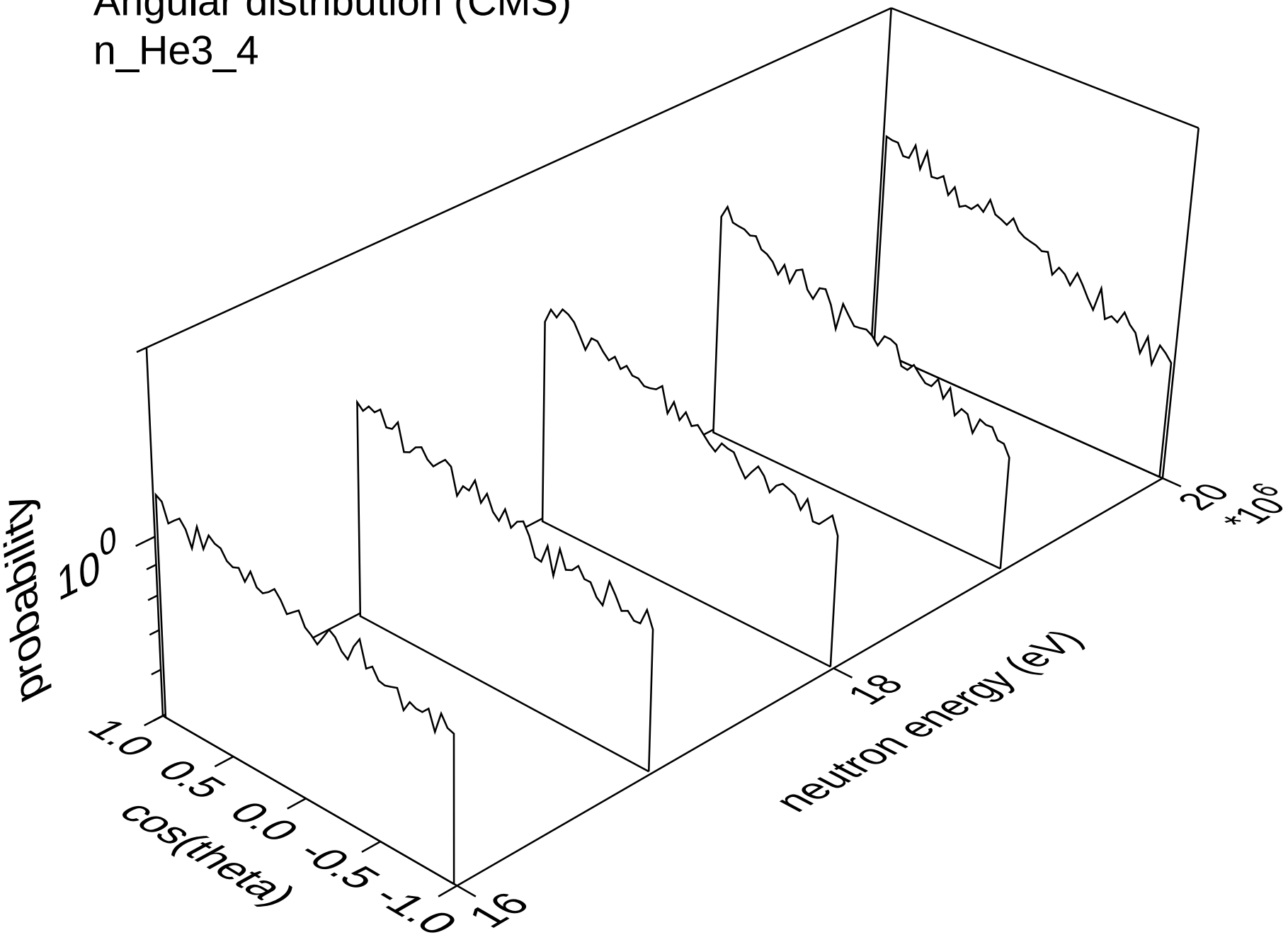

Angular distribution (CMS)
n_t_cont part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

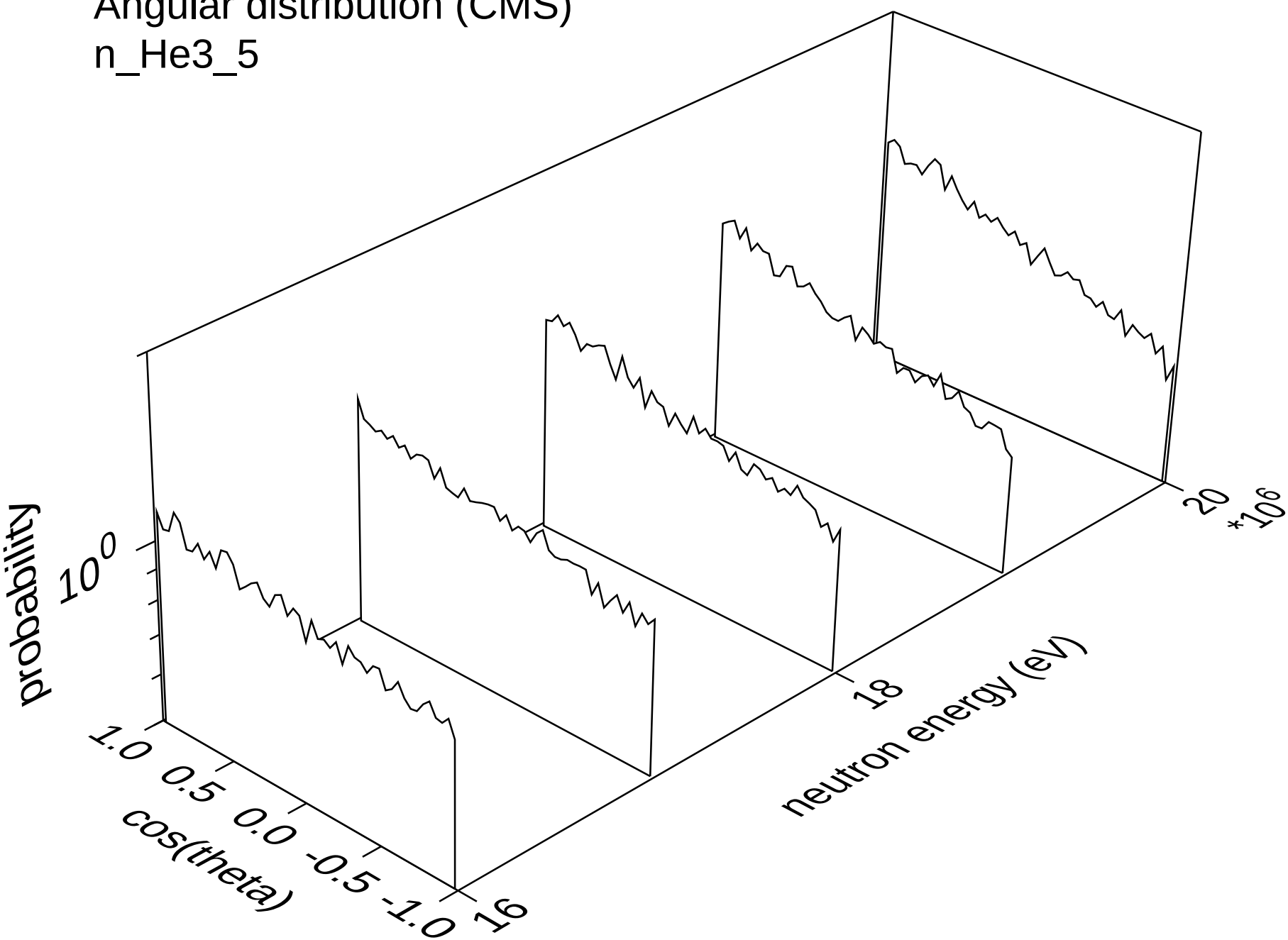

Angular distribution (CMS)
n_He3_0
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
12
14
16
18
20
*10^6
neutron energy (eV)

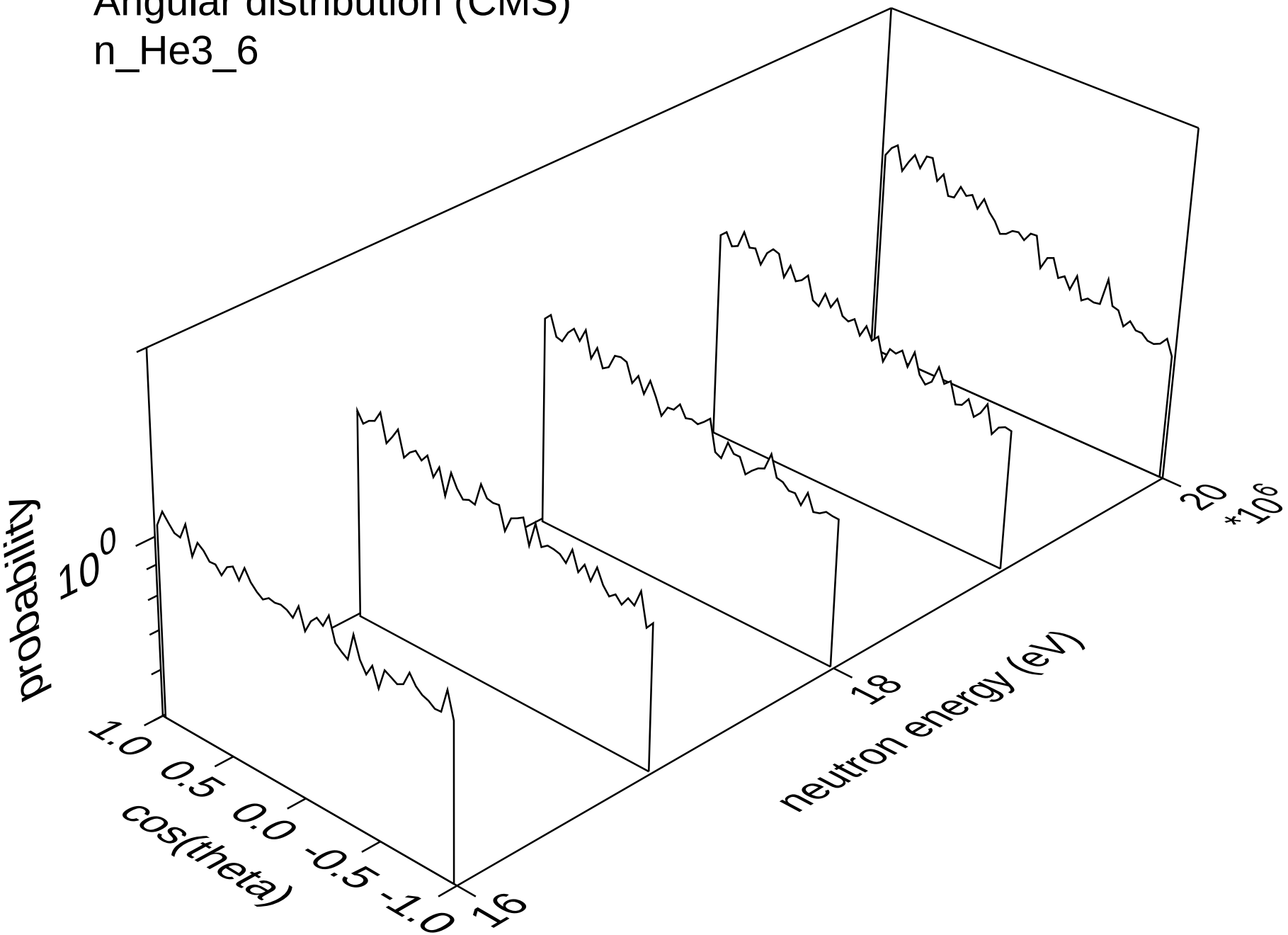

Angular distribution (CMS)
n_He3_1
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
12
14
16
18
20
*10^6
neutron energy (eV)

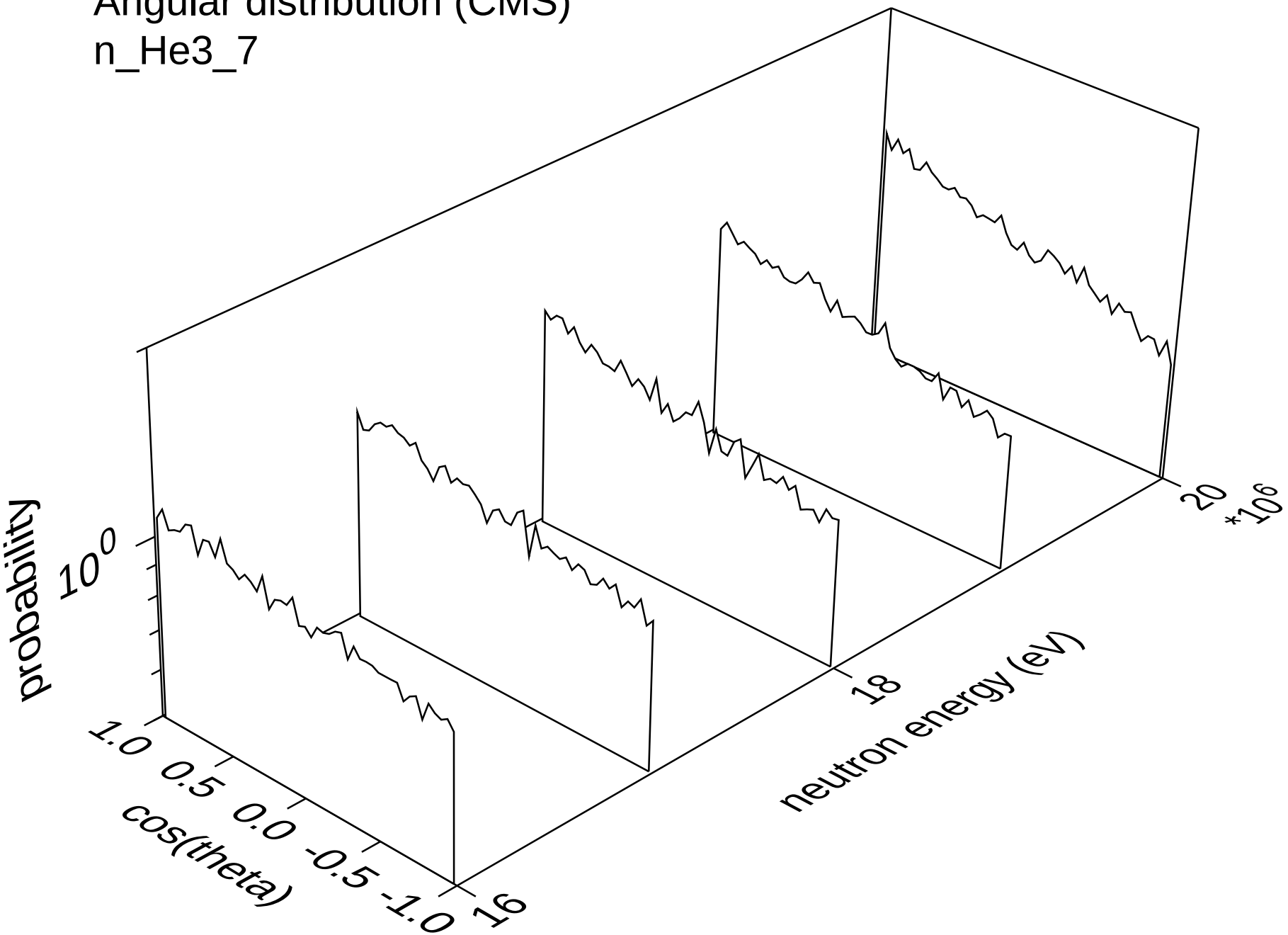

Angular distribution (CMS)
n_He3_2
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
14
16
18
20
*10^6
neutron energy (eV)

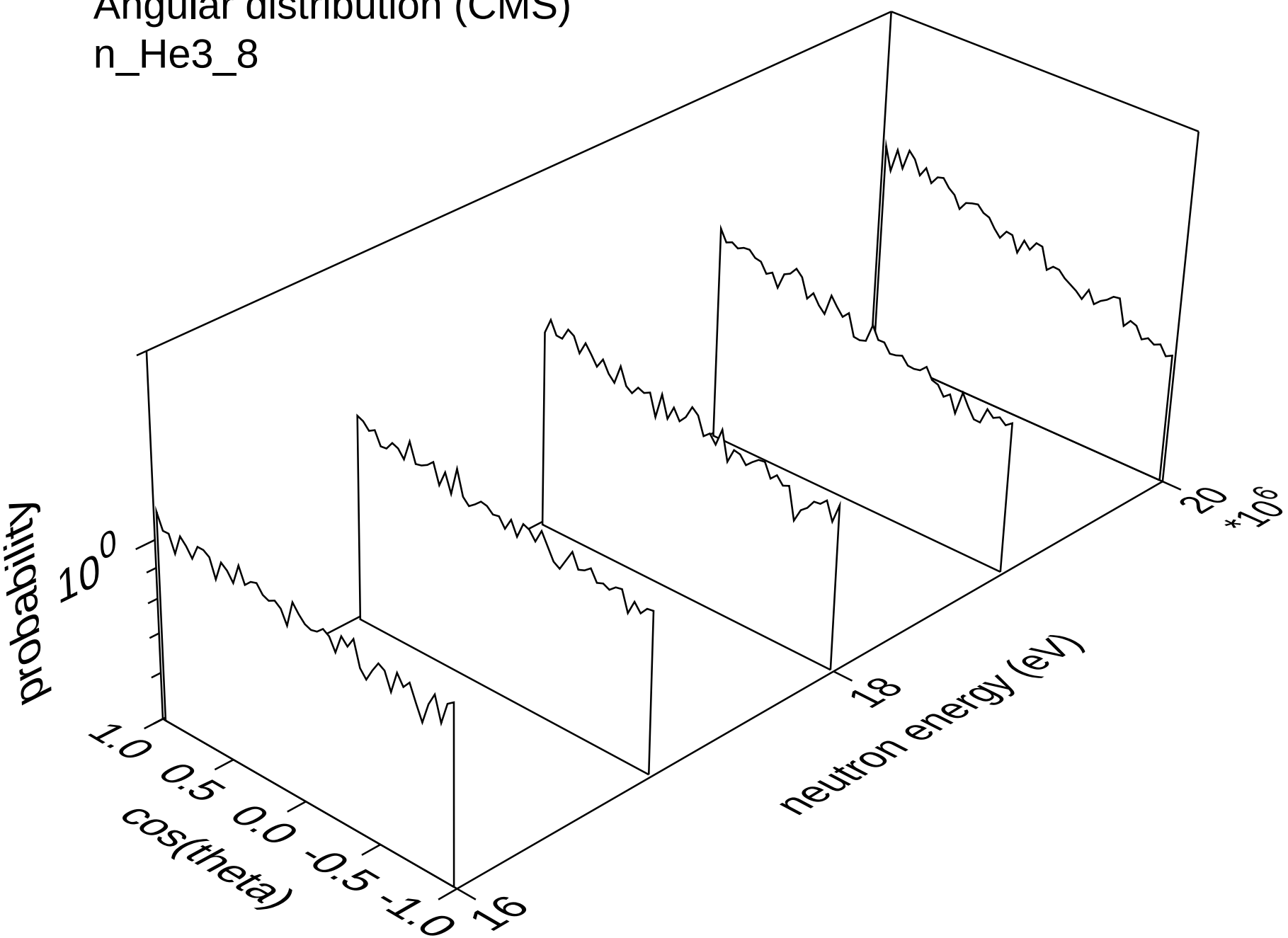

Angular distribution (CMS)
n_He3_3
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

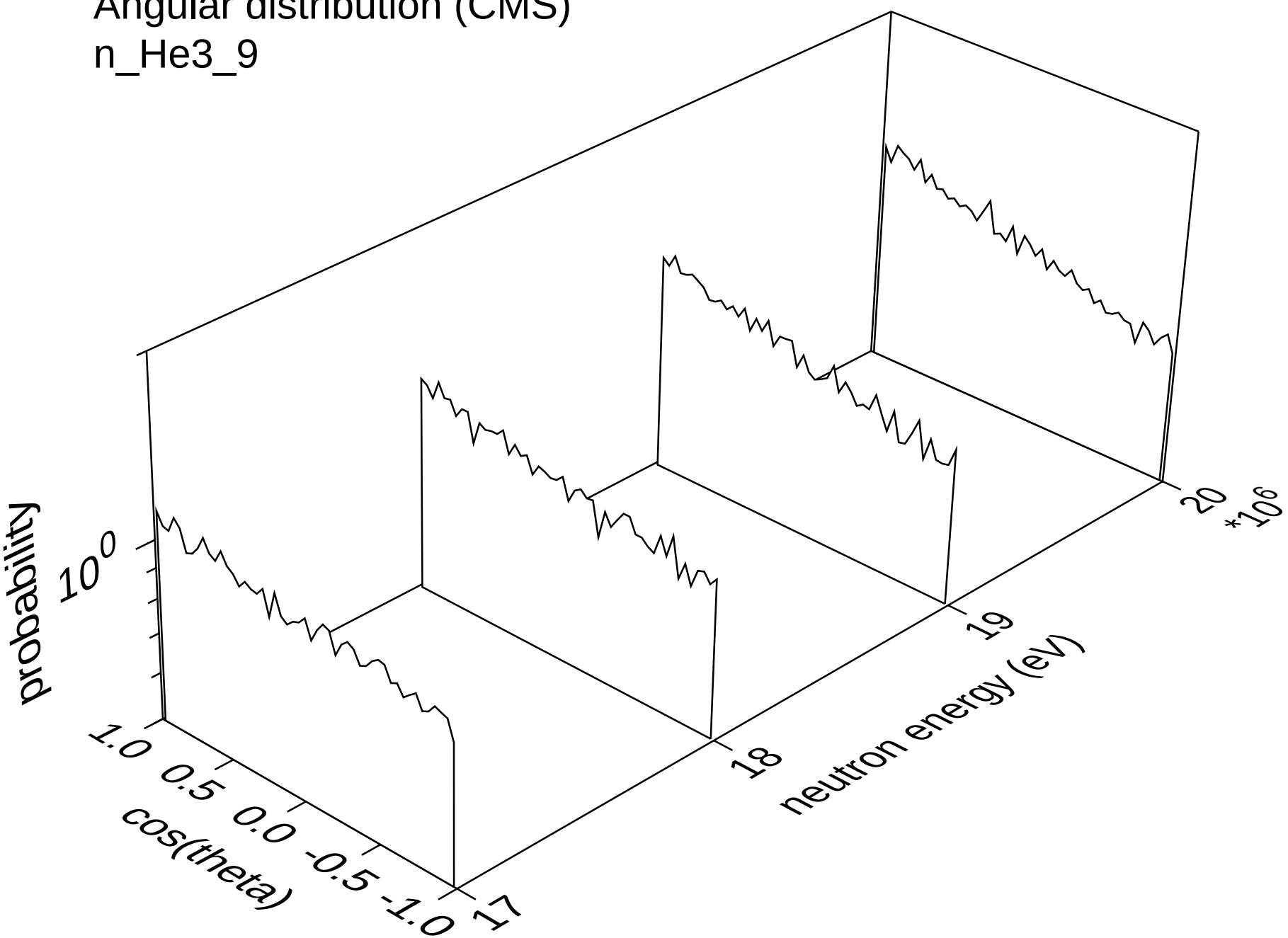

Angular distribution (CMS)
n_He3_4
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

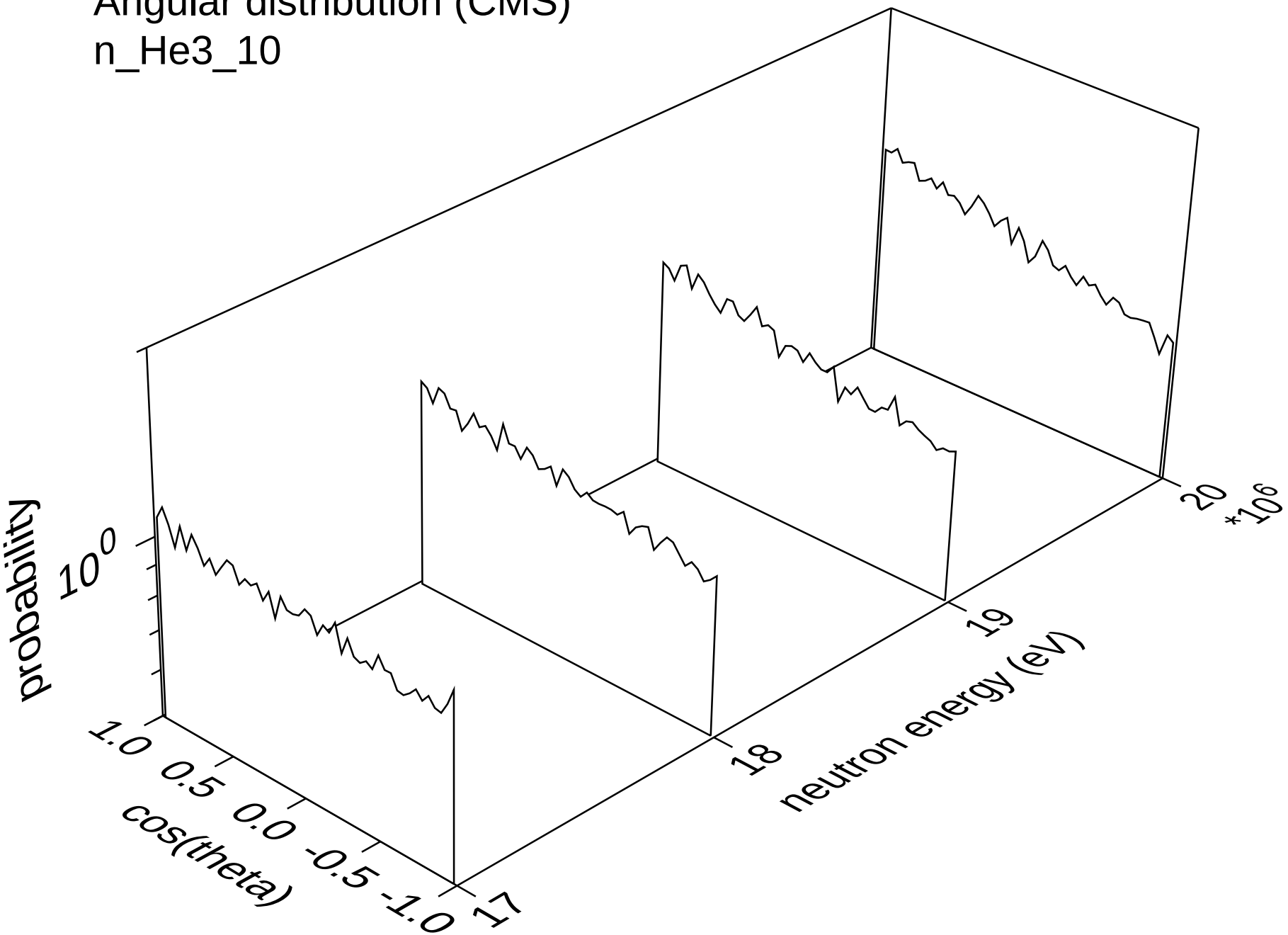

Angular distribution (CMS)
n_He3_5
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

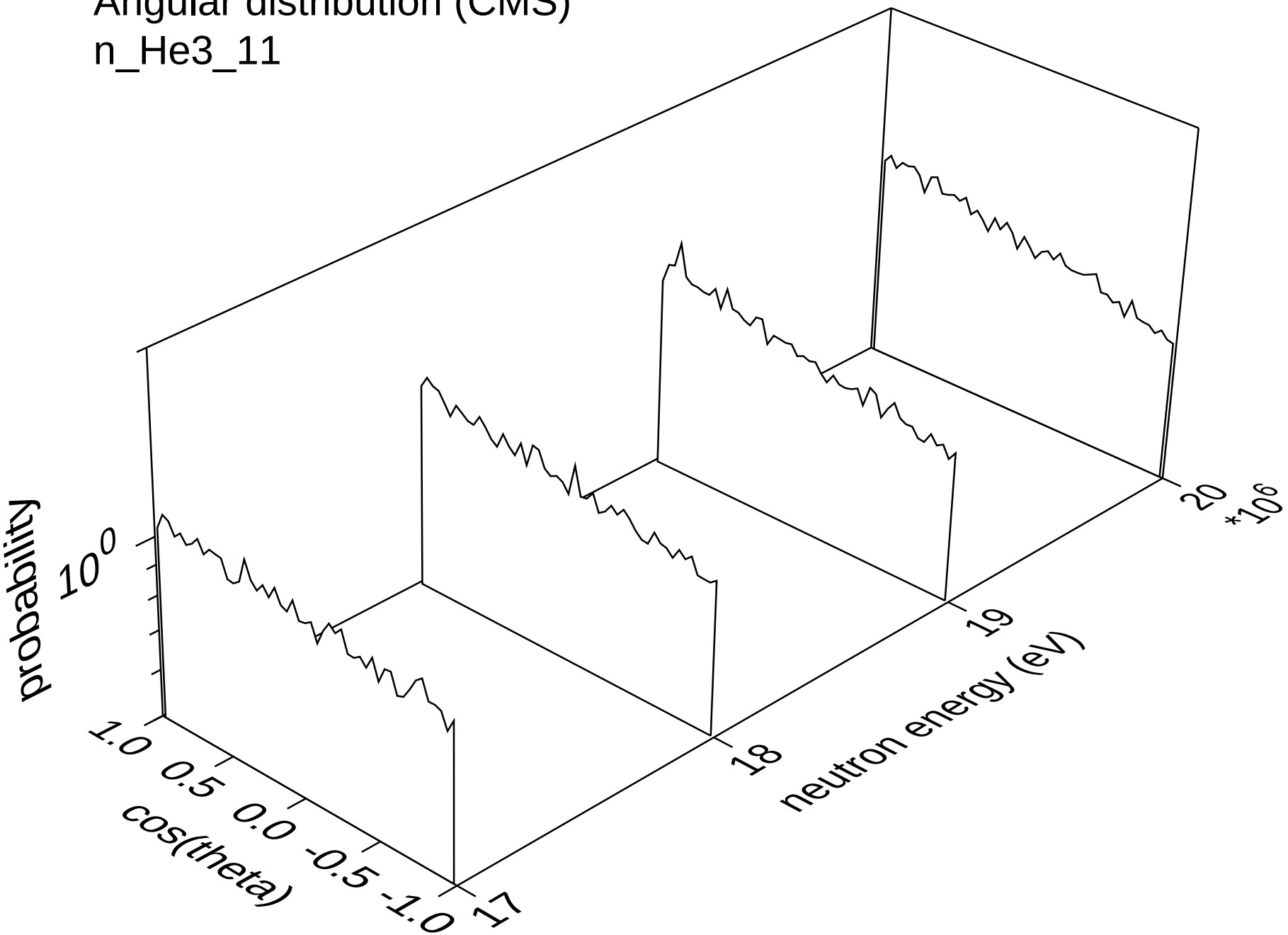

Angular distribution (CMS)
n_He3_6
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

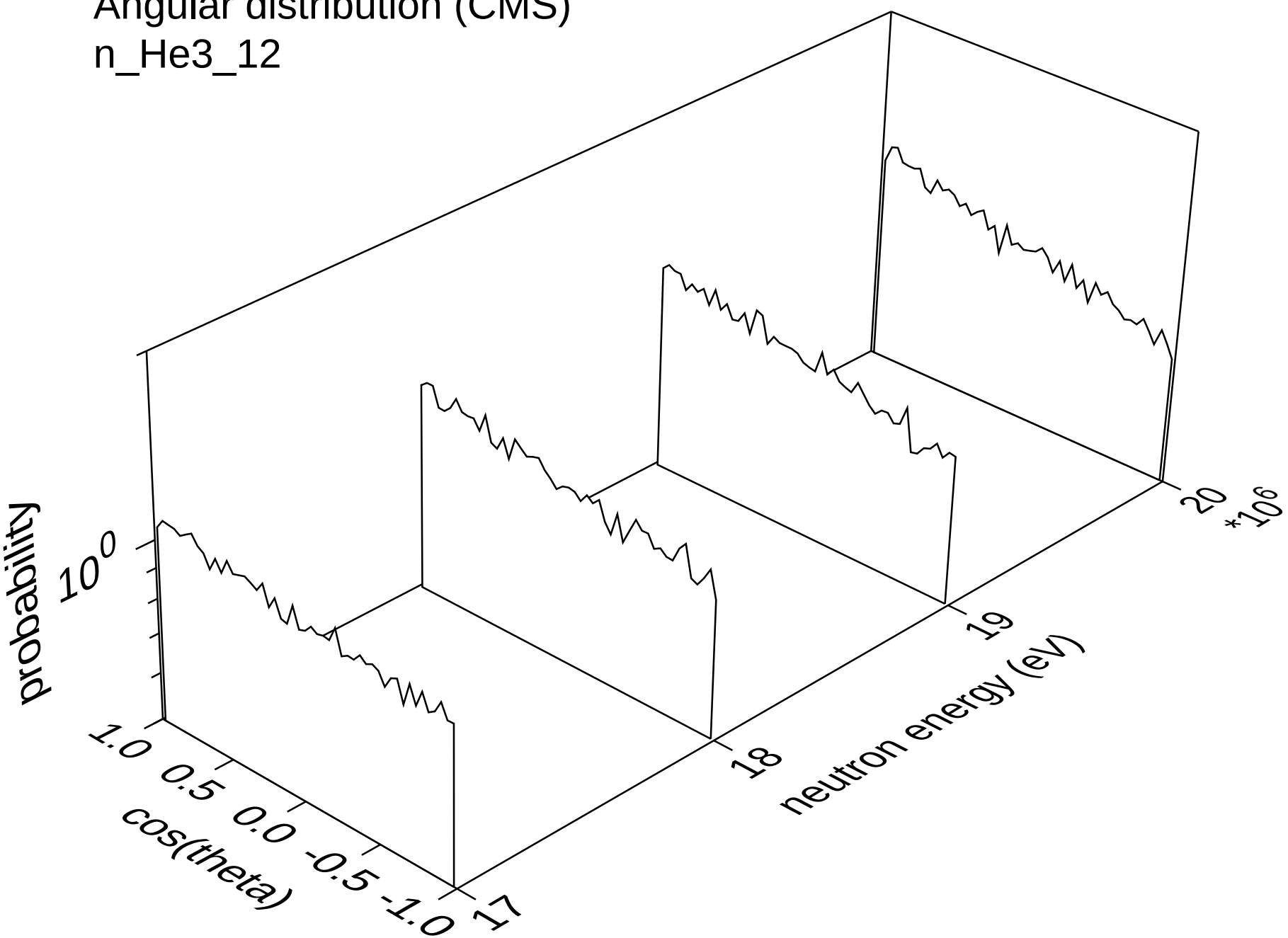

Angular distribution (CMS)
n_He3_7
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)


Angular distribution (CMS)
n_He3_8
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)


Angular distribution (CMS)
n_He3_9
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)


Angular distribution (CMS)
n_He3_10
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)


Angular distribution (CMS)
n_He3_11
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)


Angular distribution (CMS)
n_He3_12
probability
10^0
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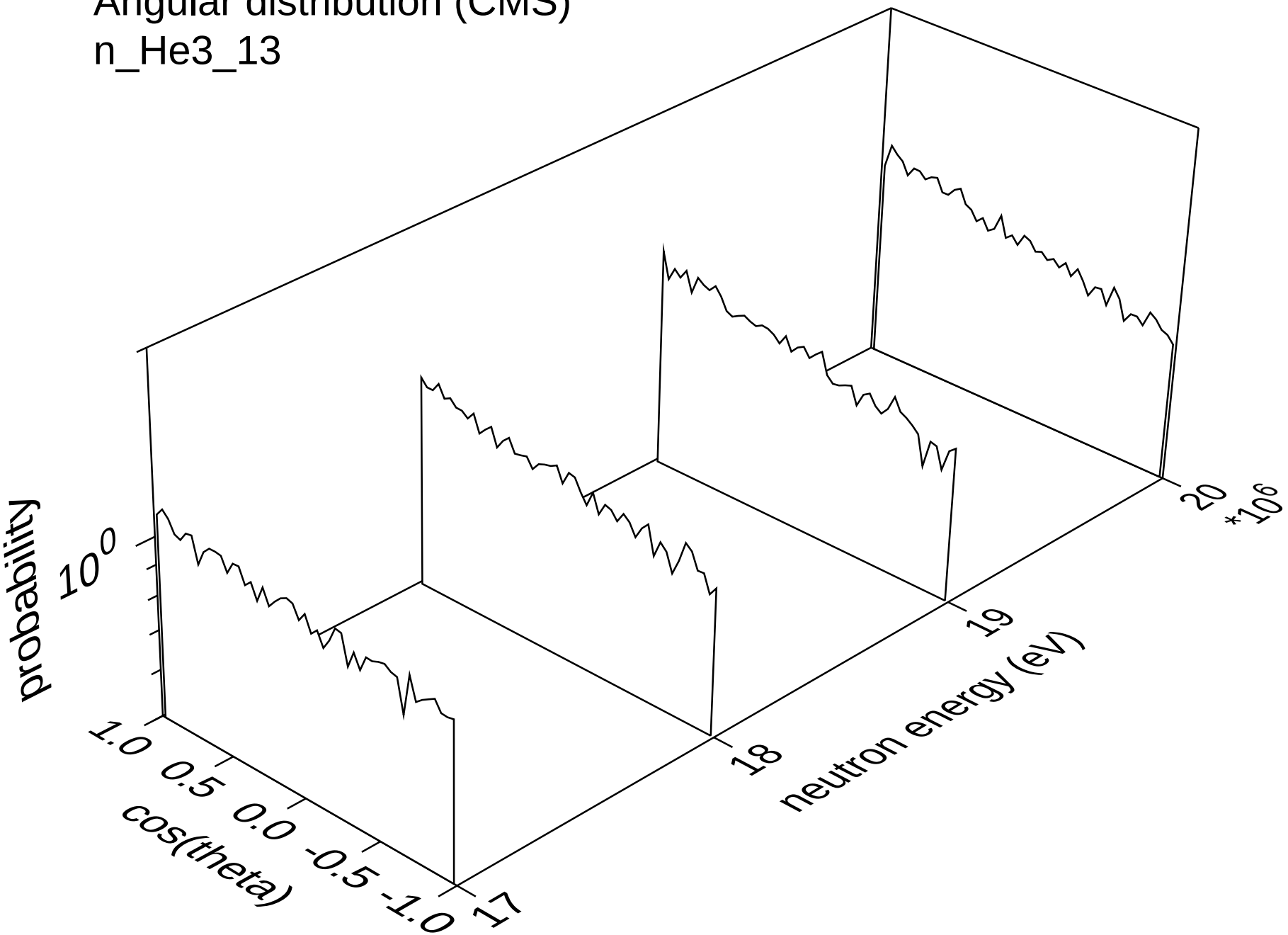
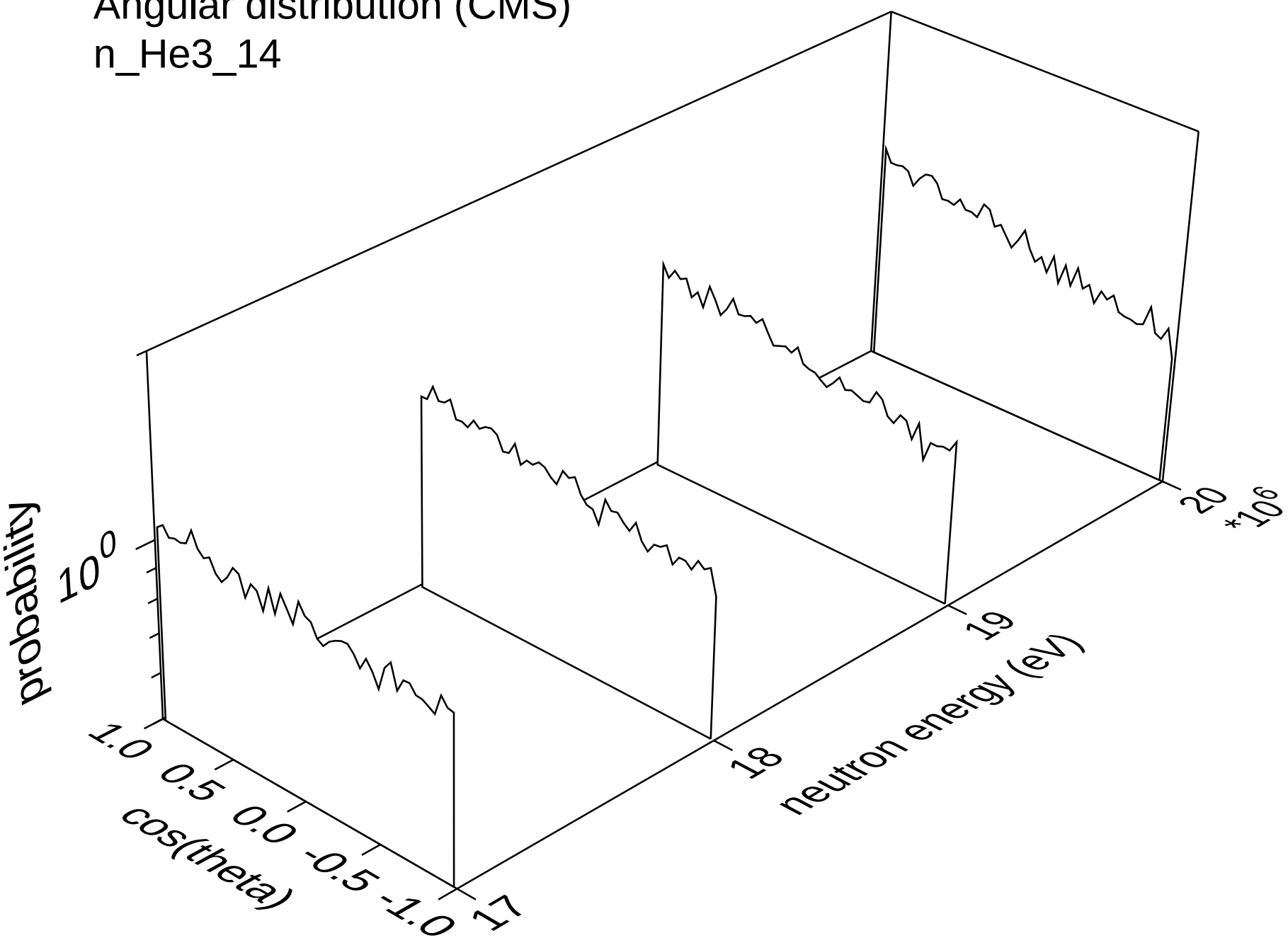
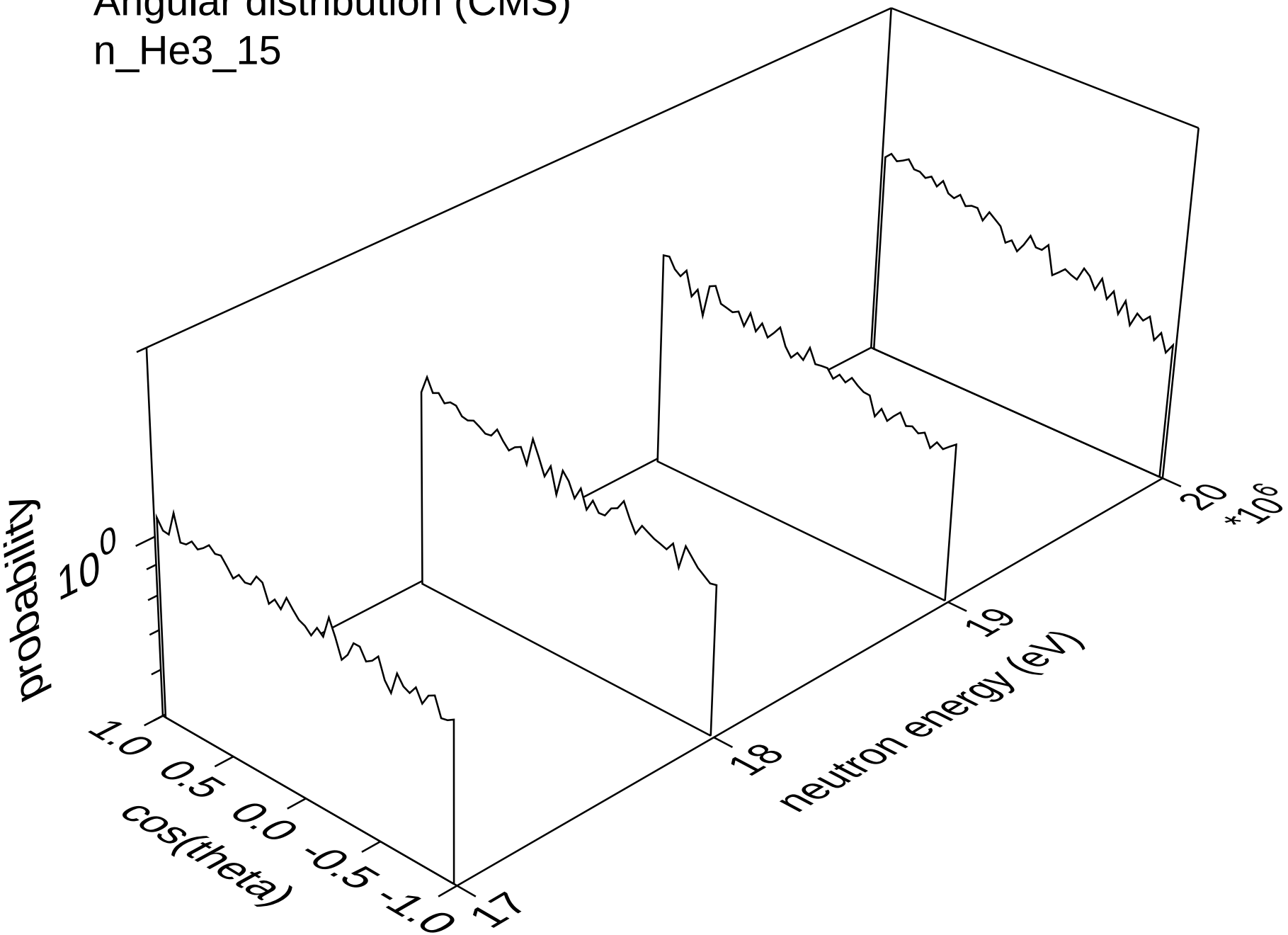
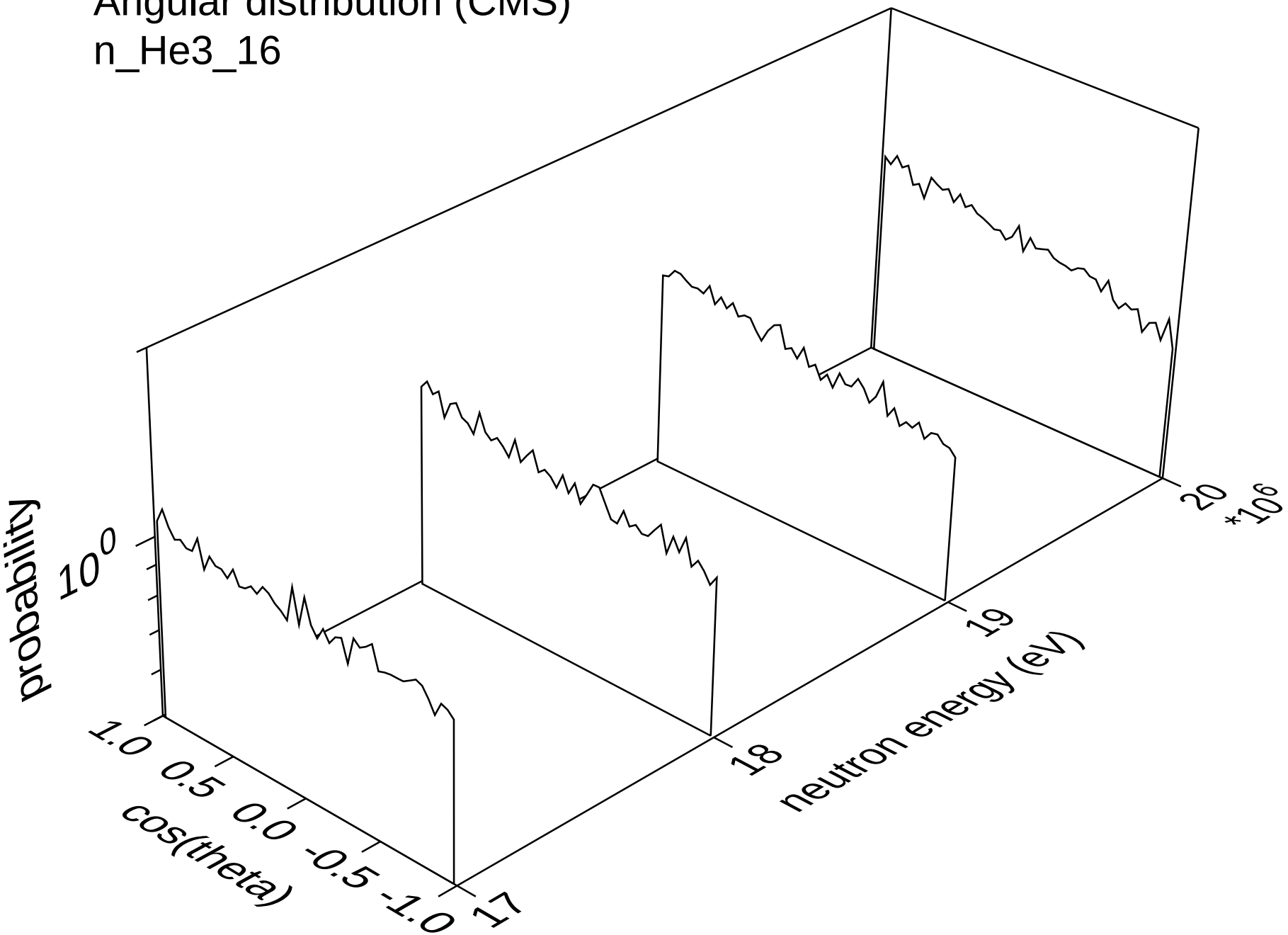
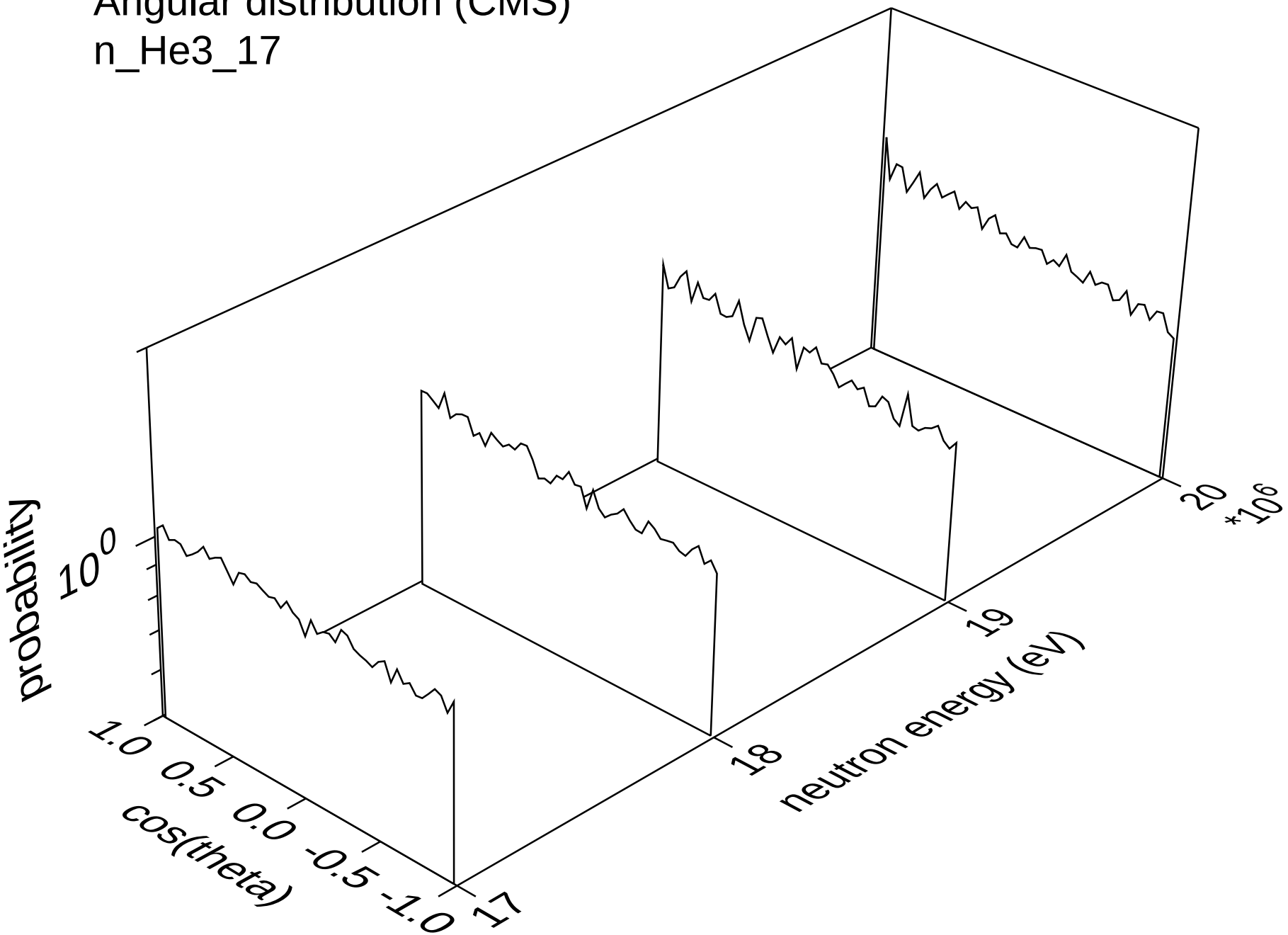
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)

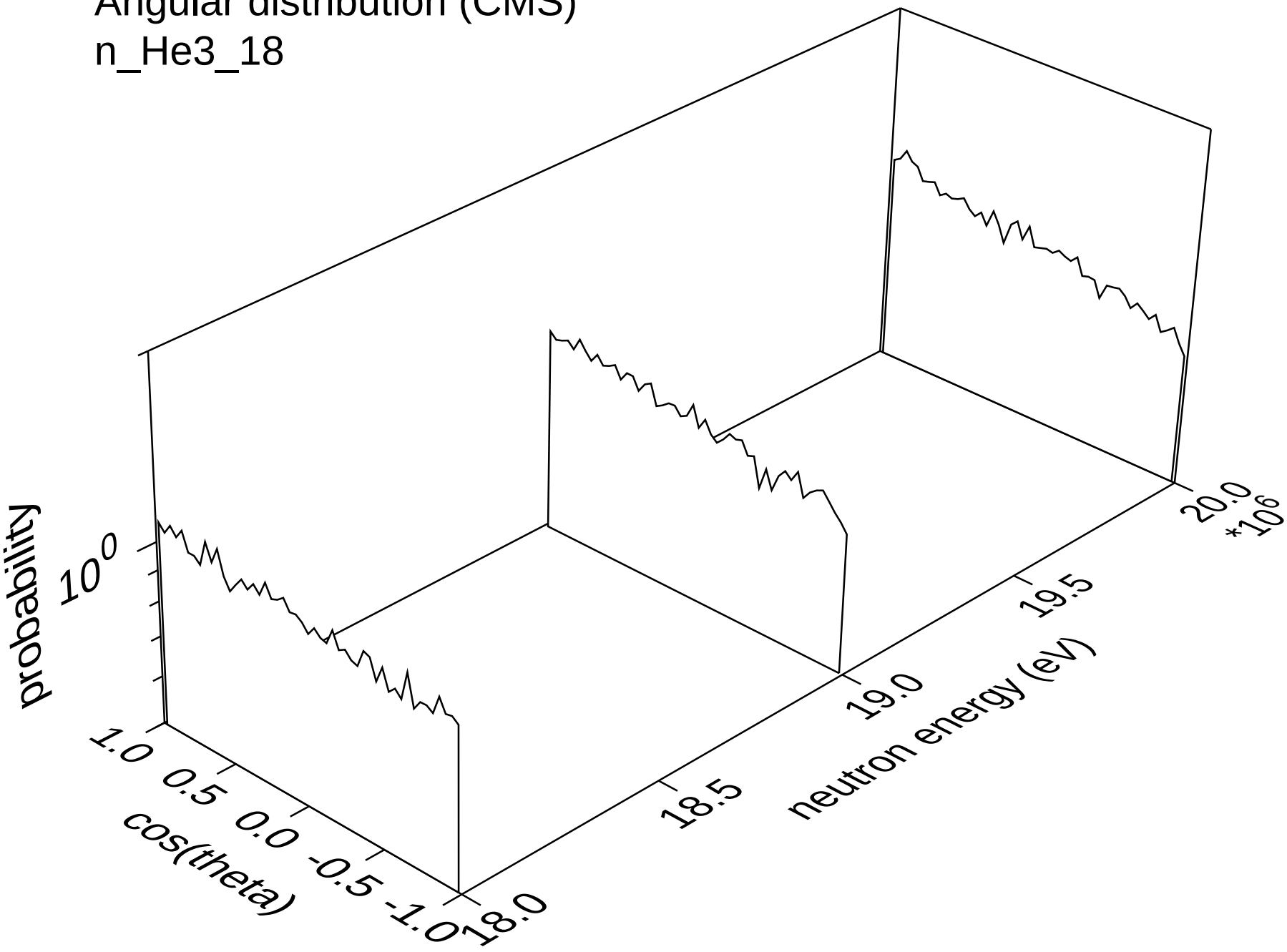

Angular distribution (CMS)
n_He3_13
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)

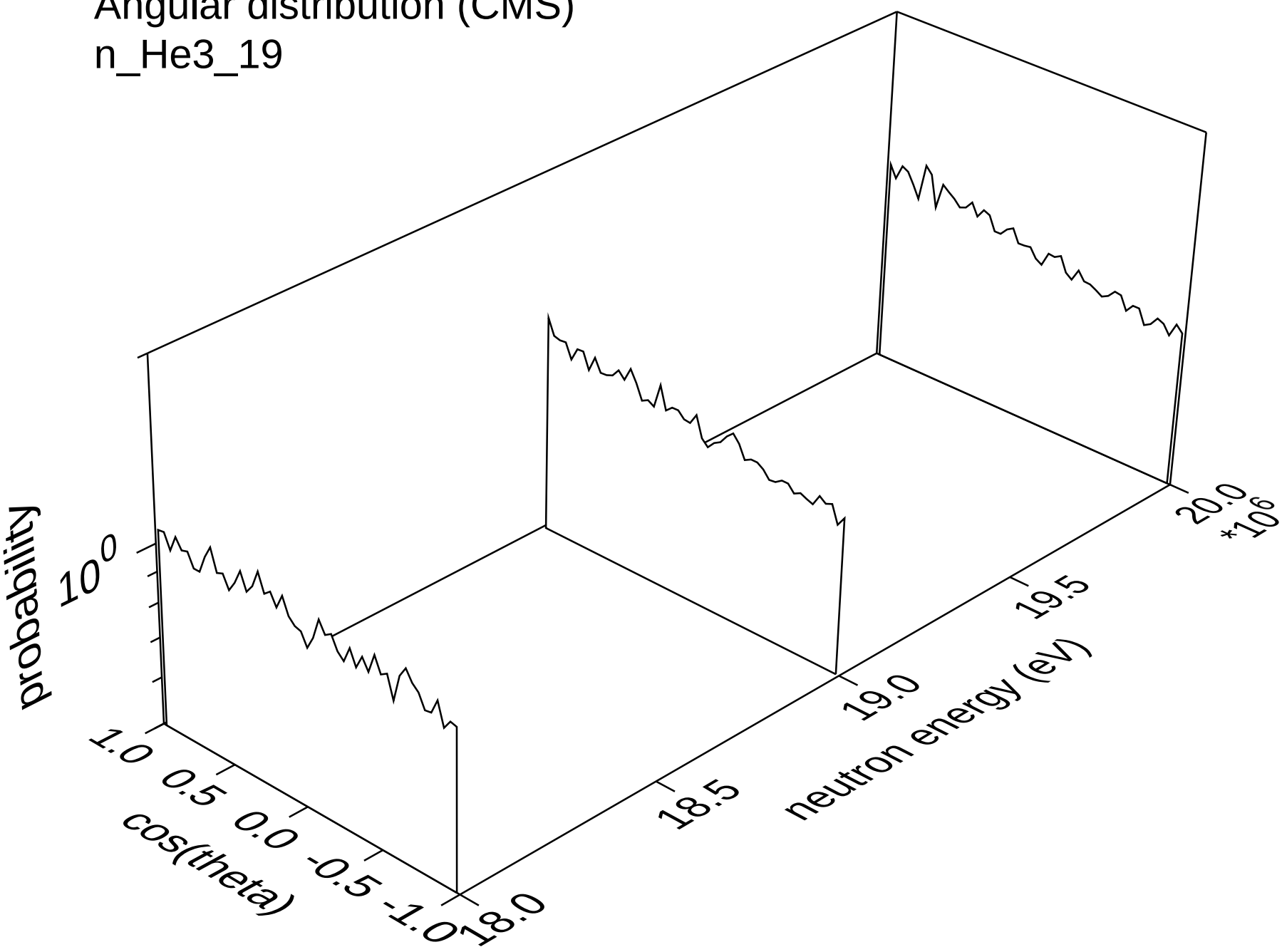

Angular distribution (CMS)
n_He3_14
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)

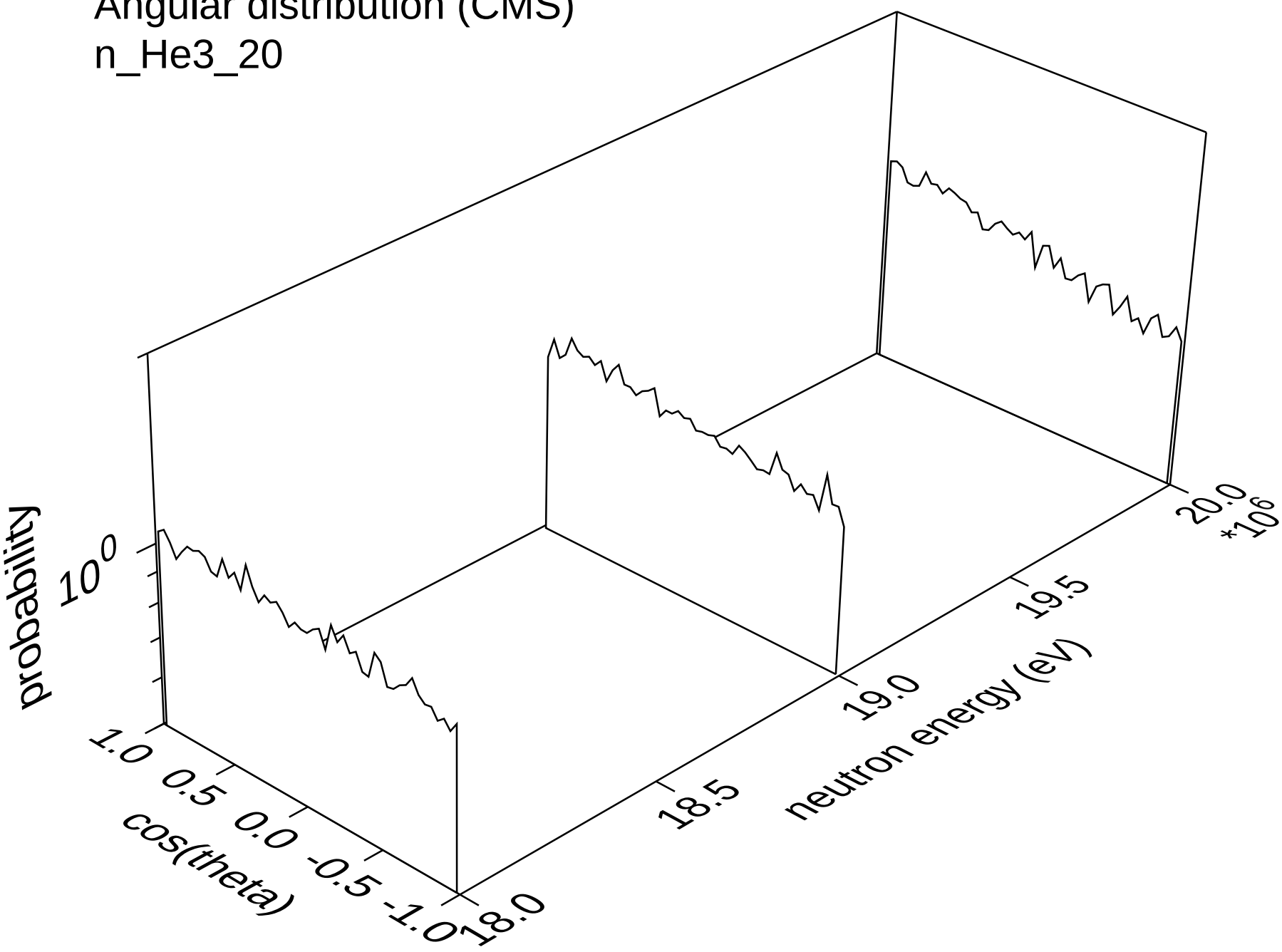

Angular distribution (CMS)
n_He3_15
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)

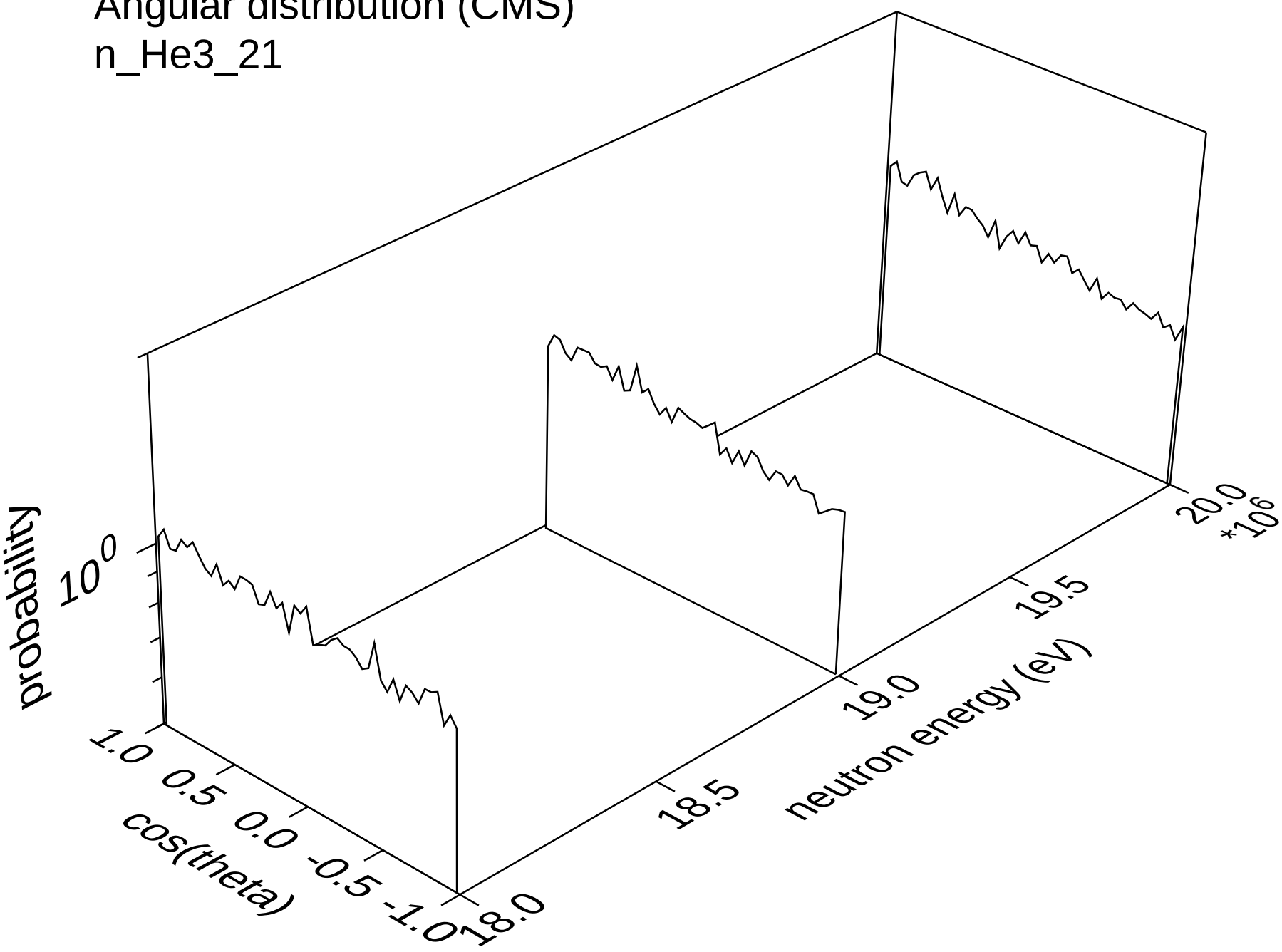

Angular distribution (CMS)
n_He3_16
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)

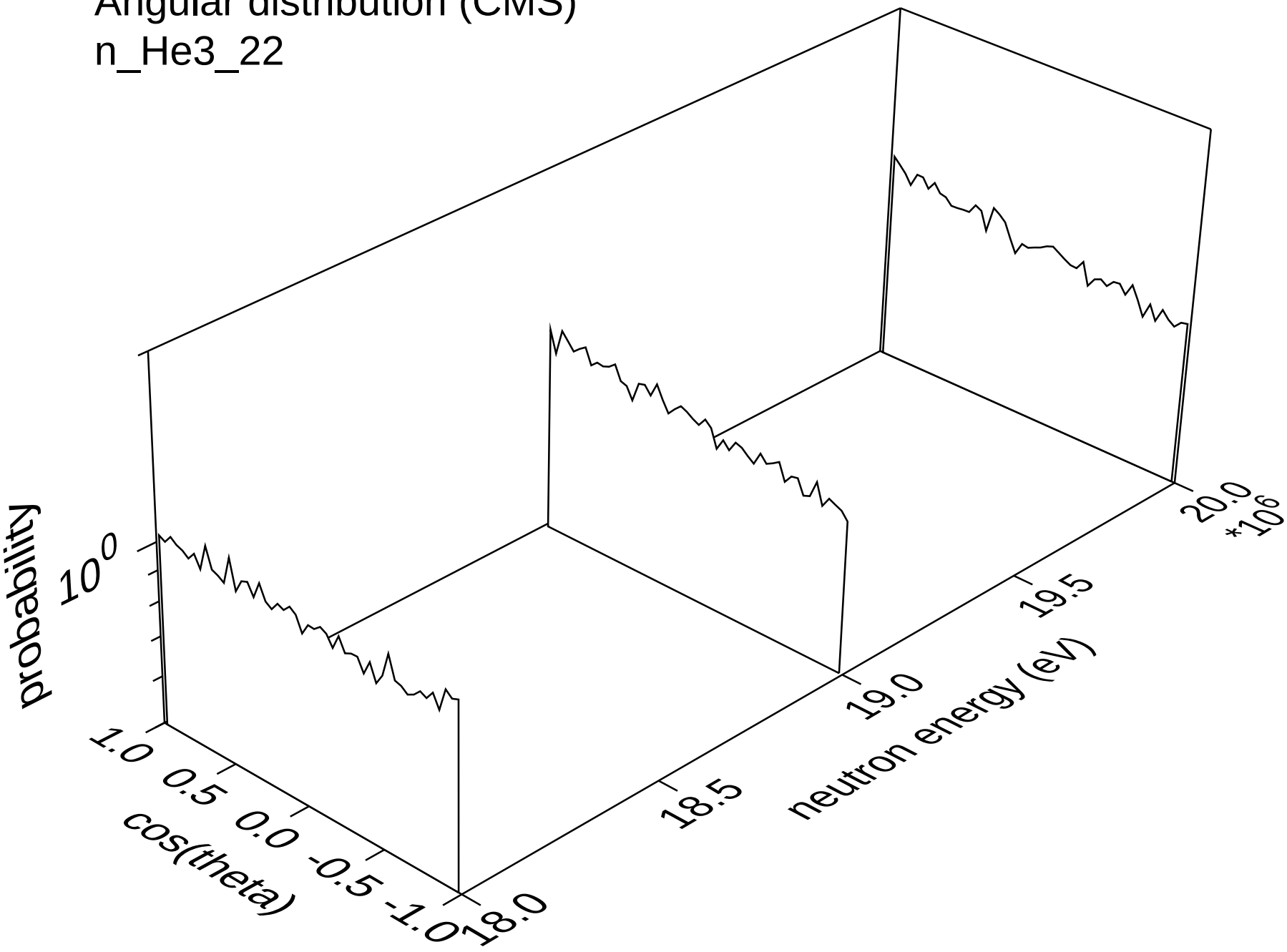

Angular distribution (CMS)
n_He3_17
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)

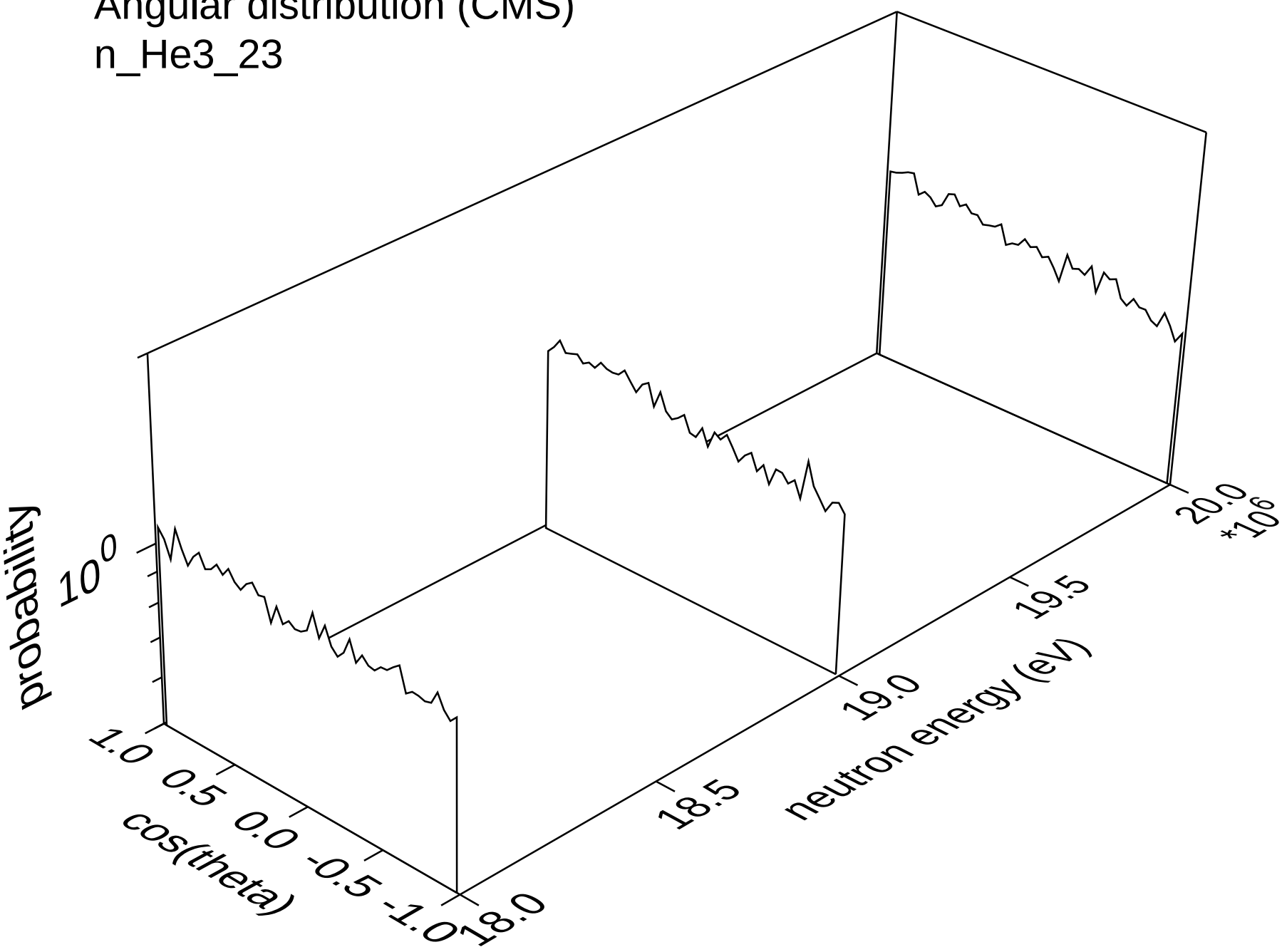

Angular distribution (CMS)
n_He3_18
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

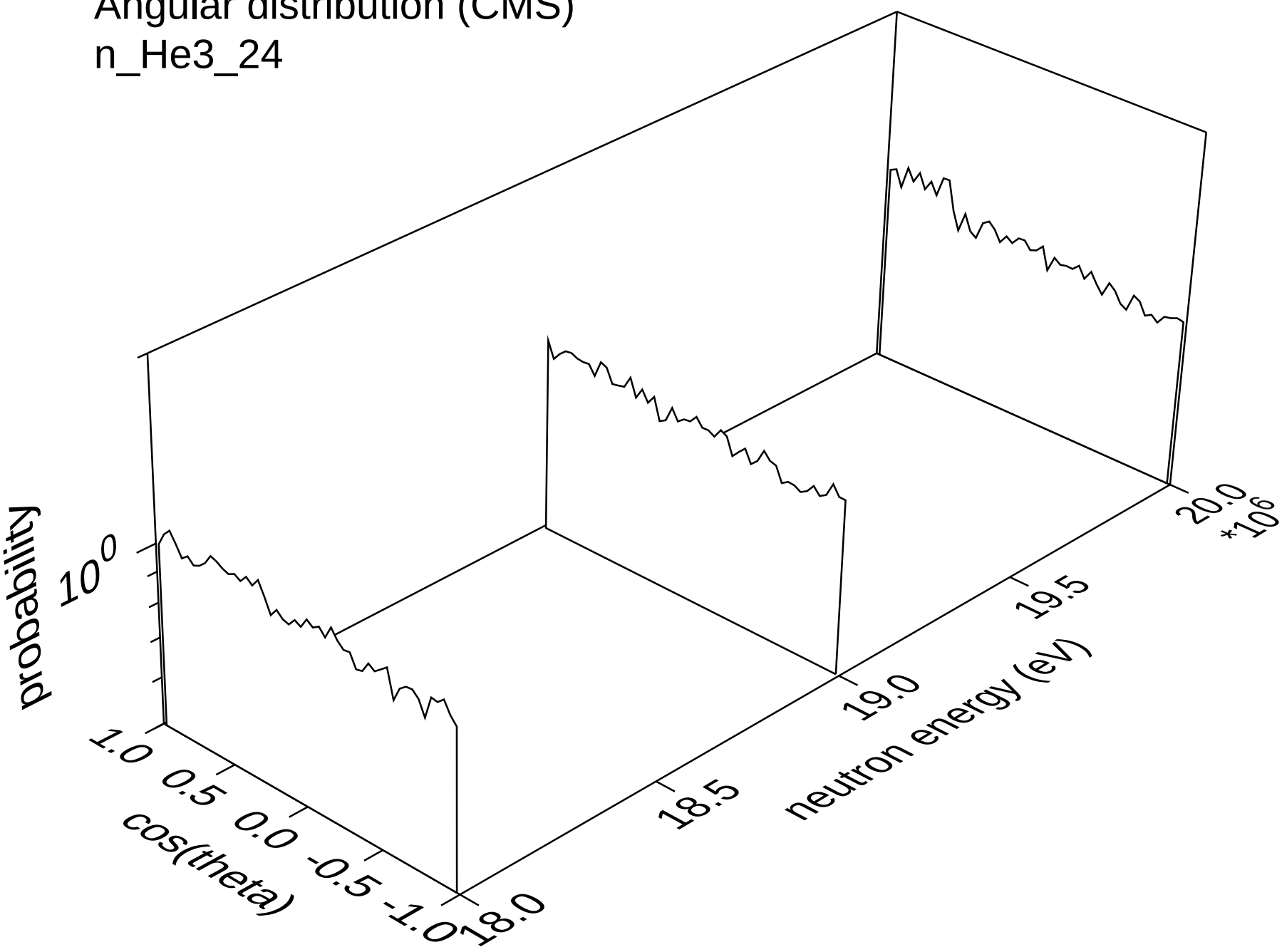

Angular distribution (CMS)
n_He3_19
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

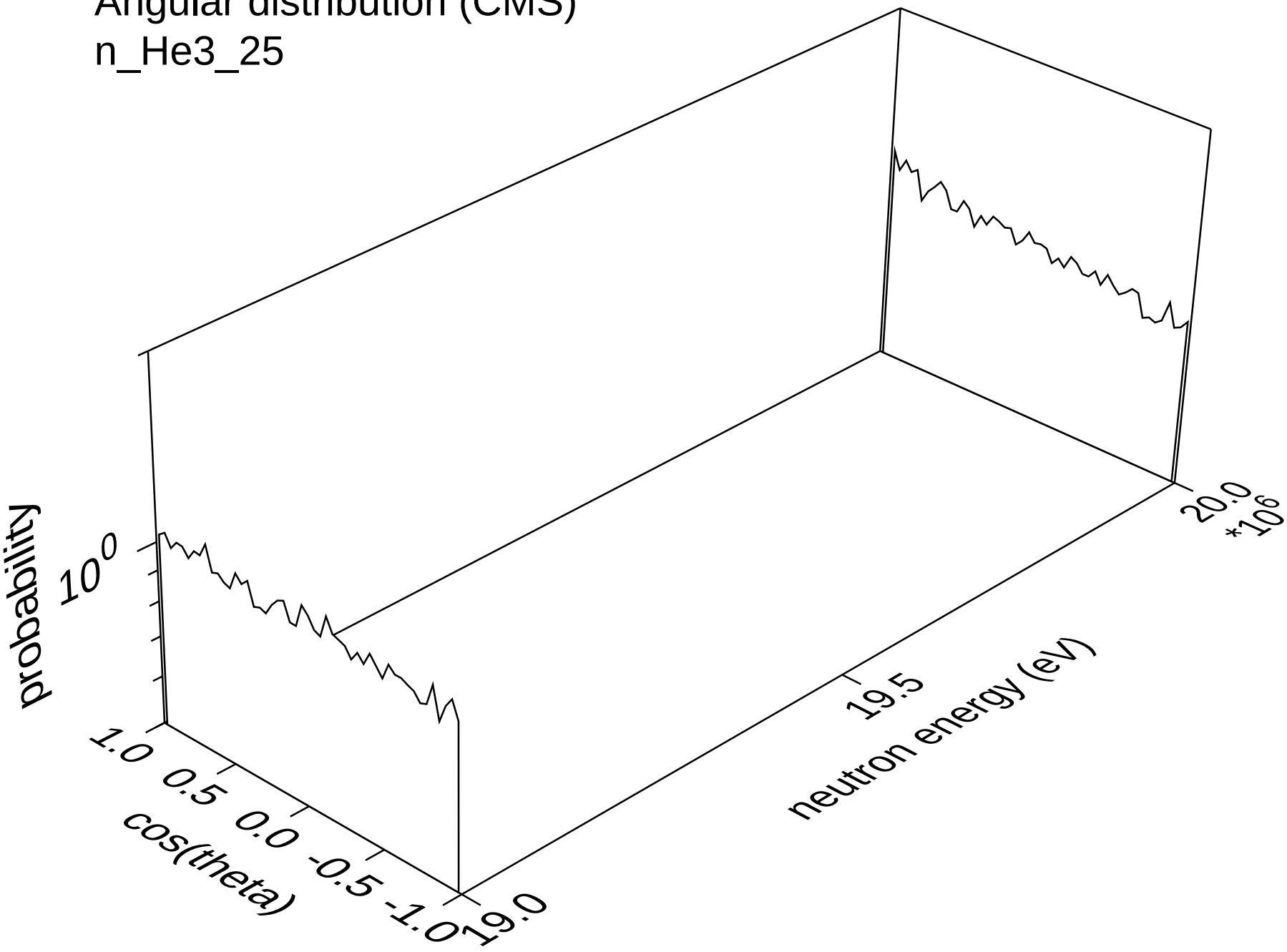

Angular distribution (CMS)
n_He3_20
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

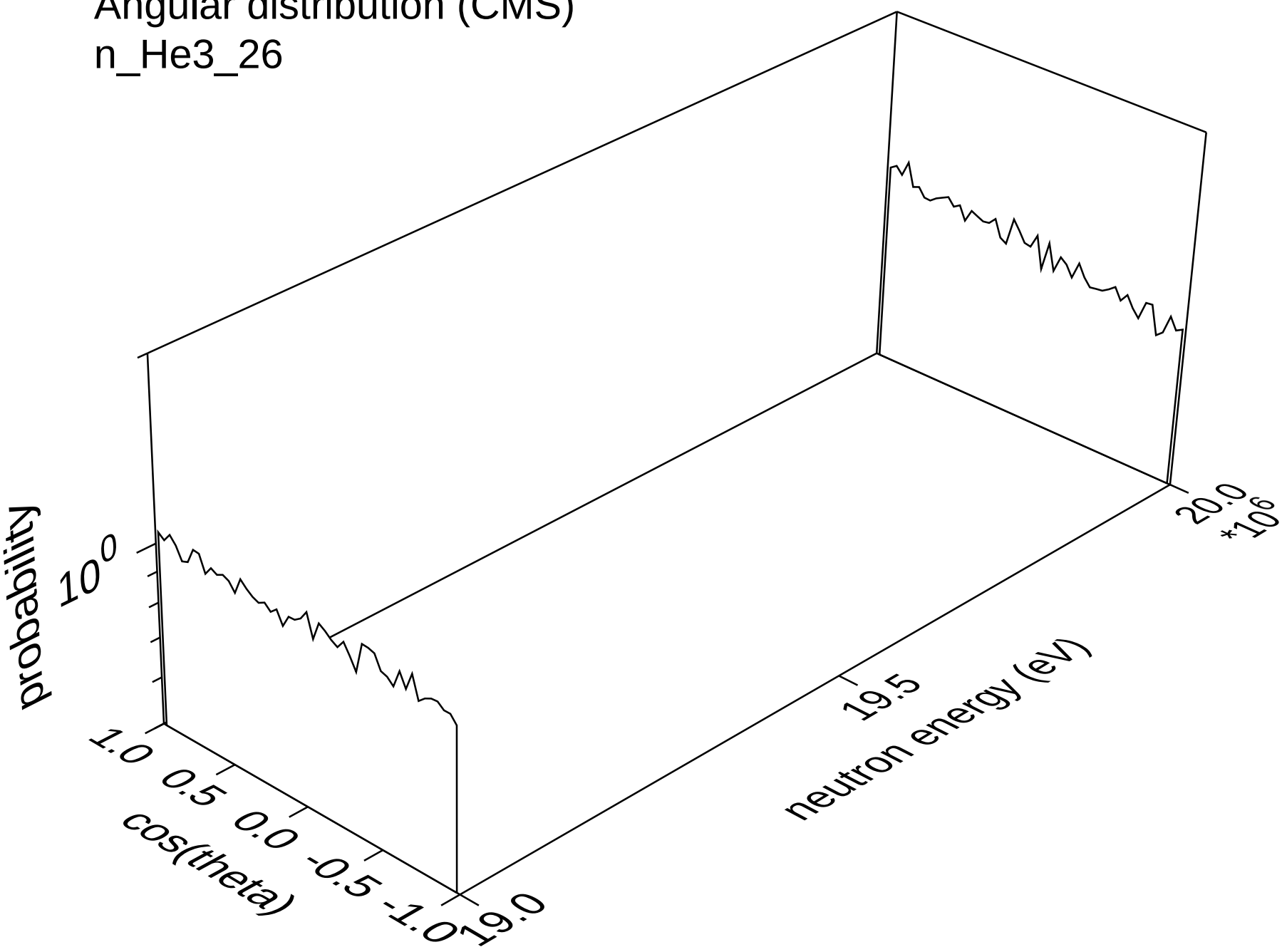

Angular distribution (CMS)
n_He3_21
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

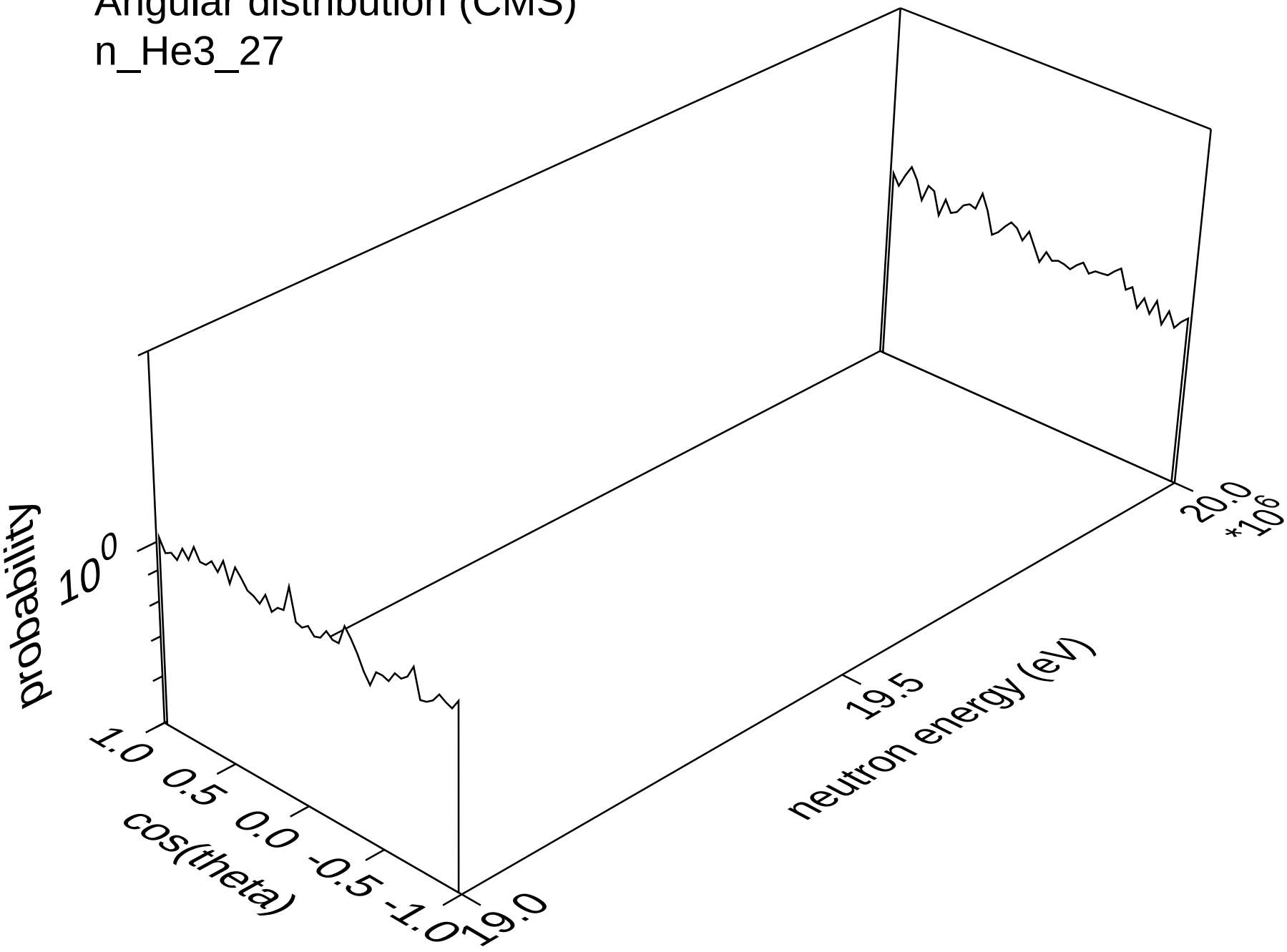

Angular distribution (CMS)
n_He3_22
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

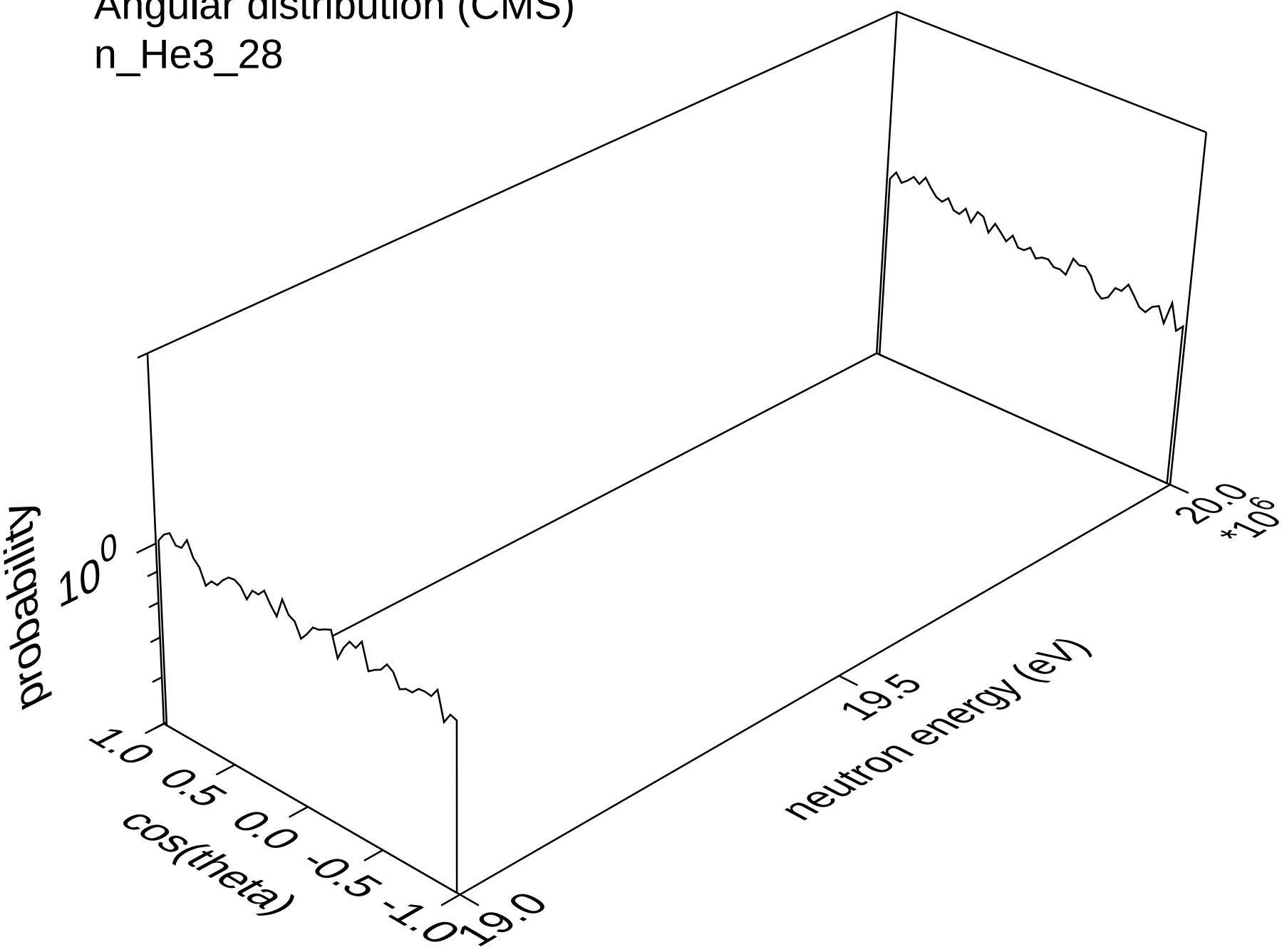

Angular distribution (CMS)
n_He3_23
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

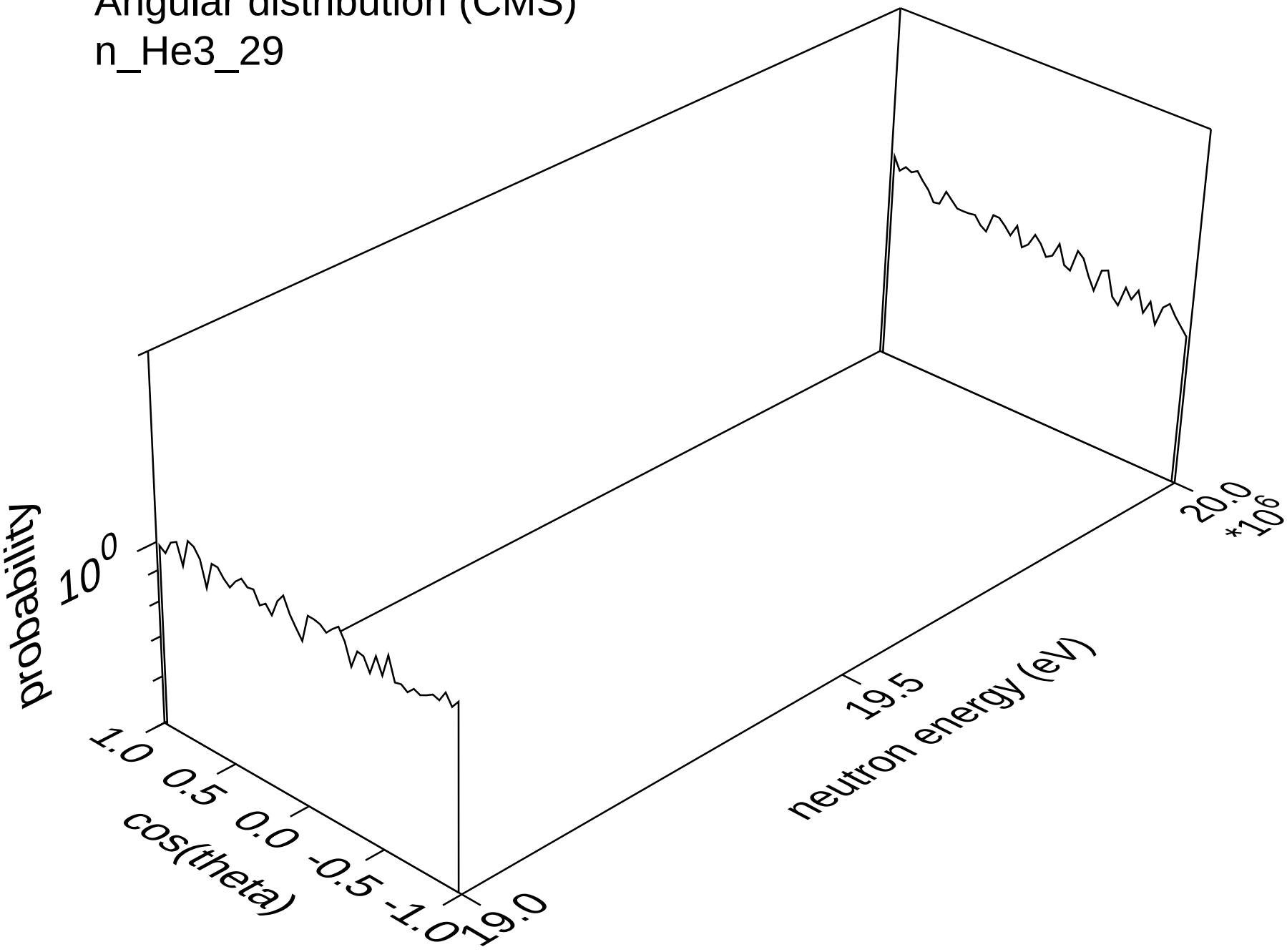

Angular distribution (CMS)
n_He3_24
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

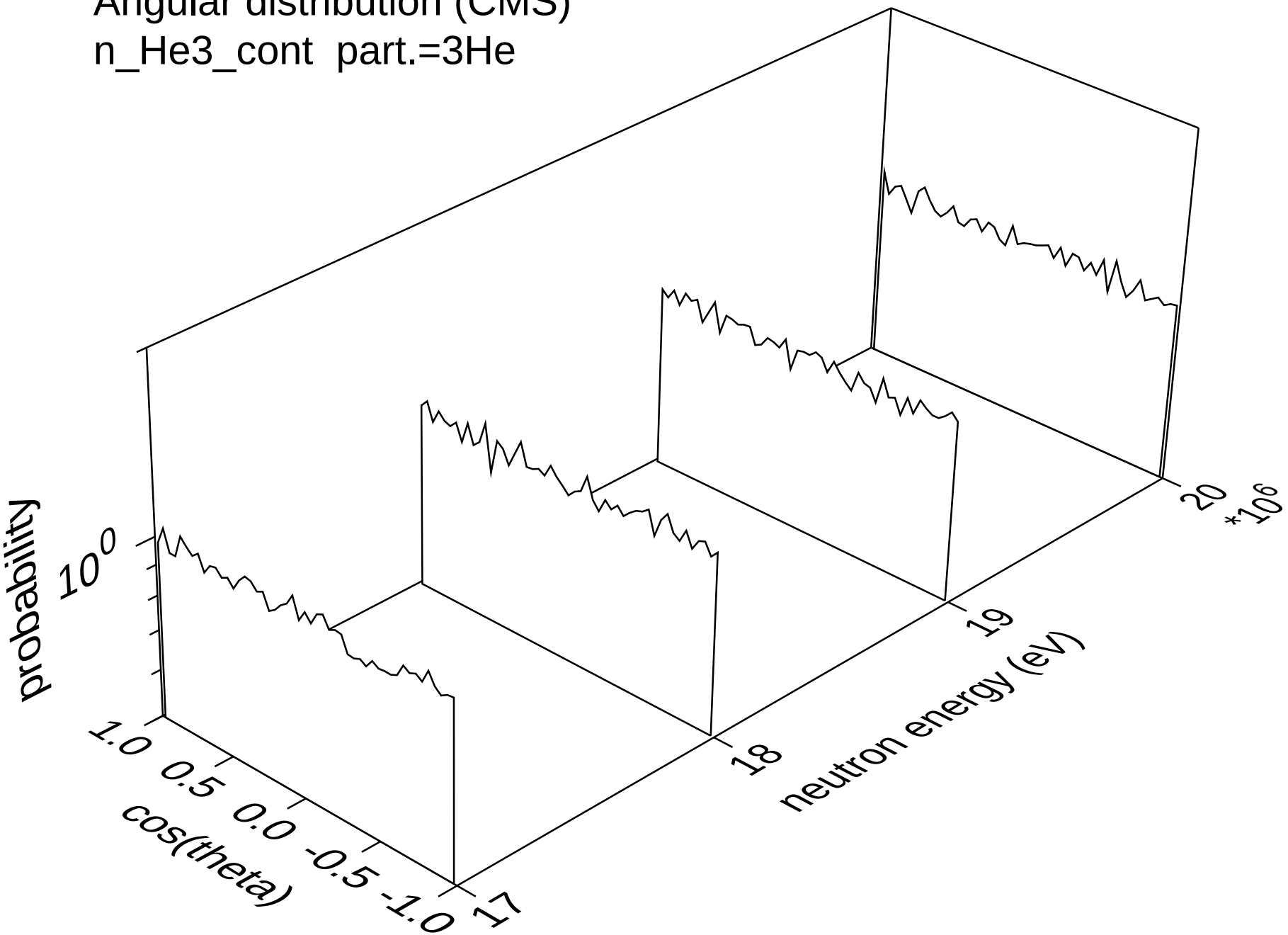

Angular distribution (CMS)
n_He3_25
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
19.0
19.5
20.0
*10^6
neutron energy (eV)

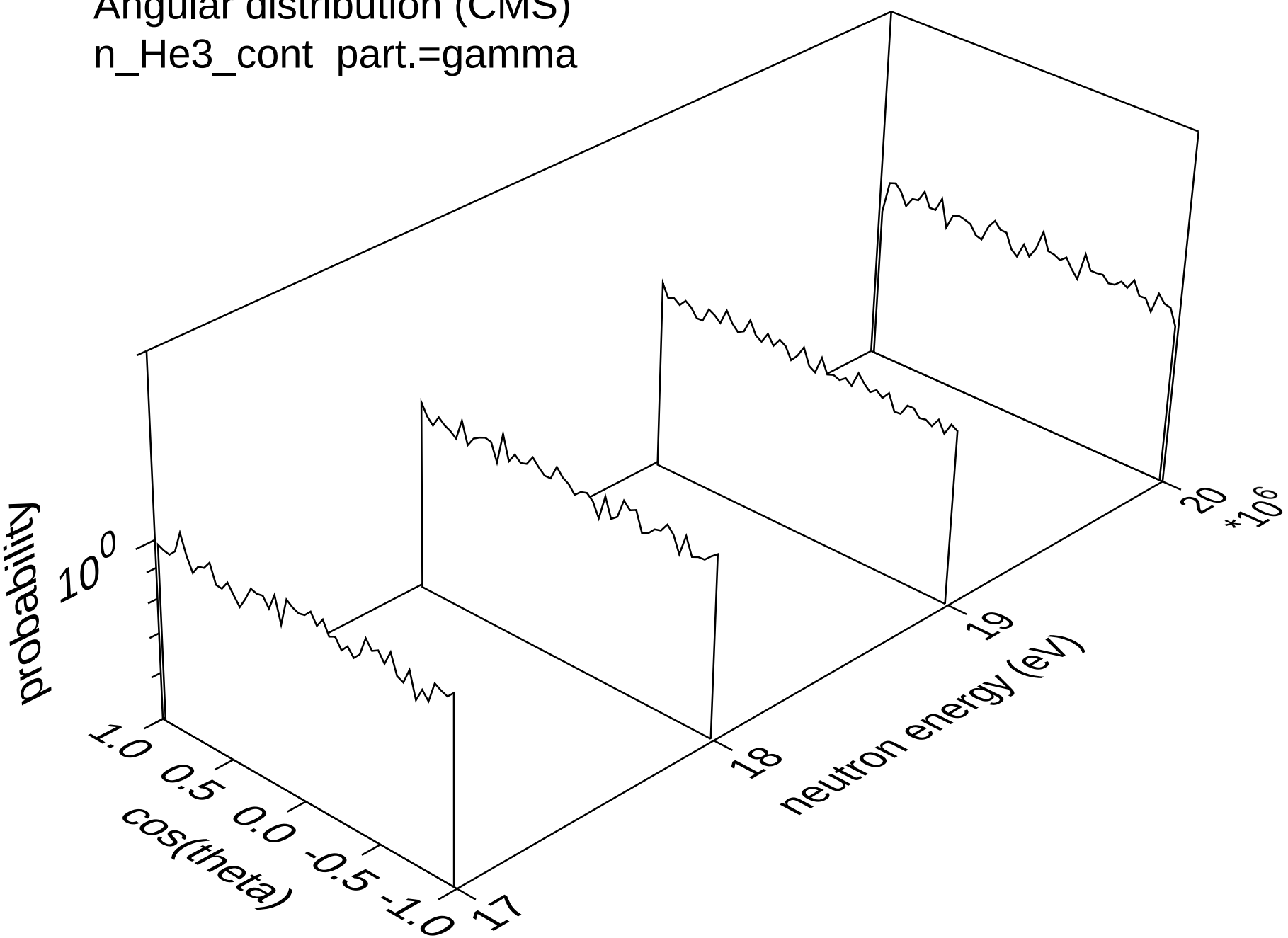

Angular distribution (CMS)
n_He3_26
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
19.0
19.5
20.0
*10^6
neutron energy (eV)

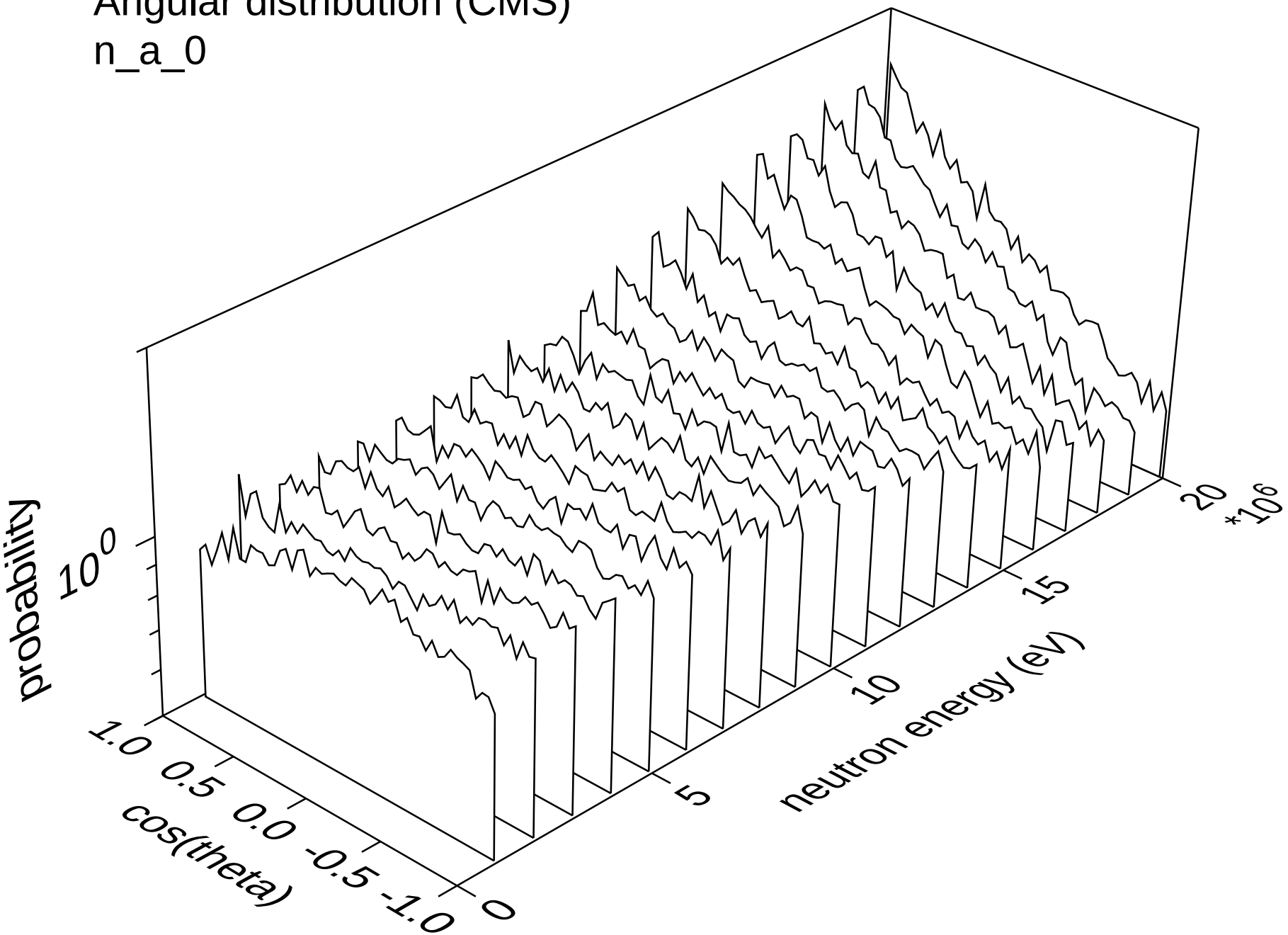

Angular distribution (CMS)
n_He3_27
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
19.0
19.5
20.0
$*10^6$
neutron energy (eV)

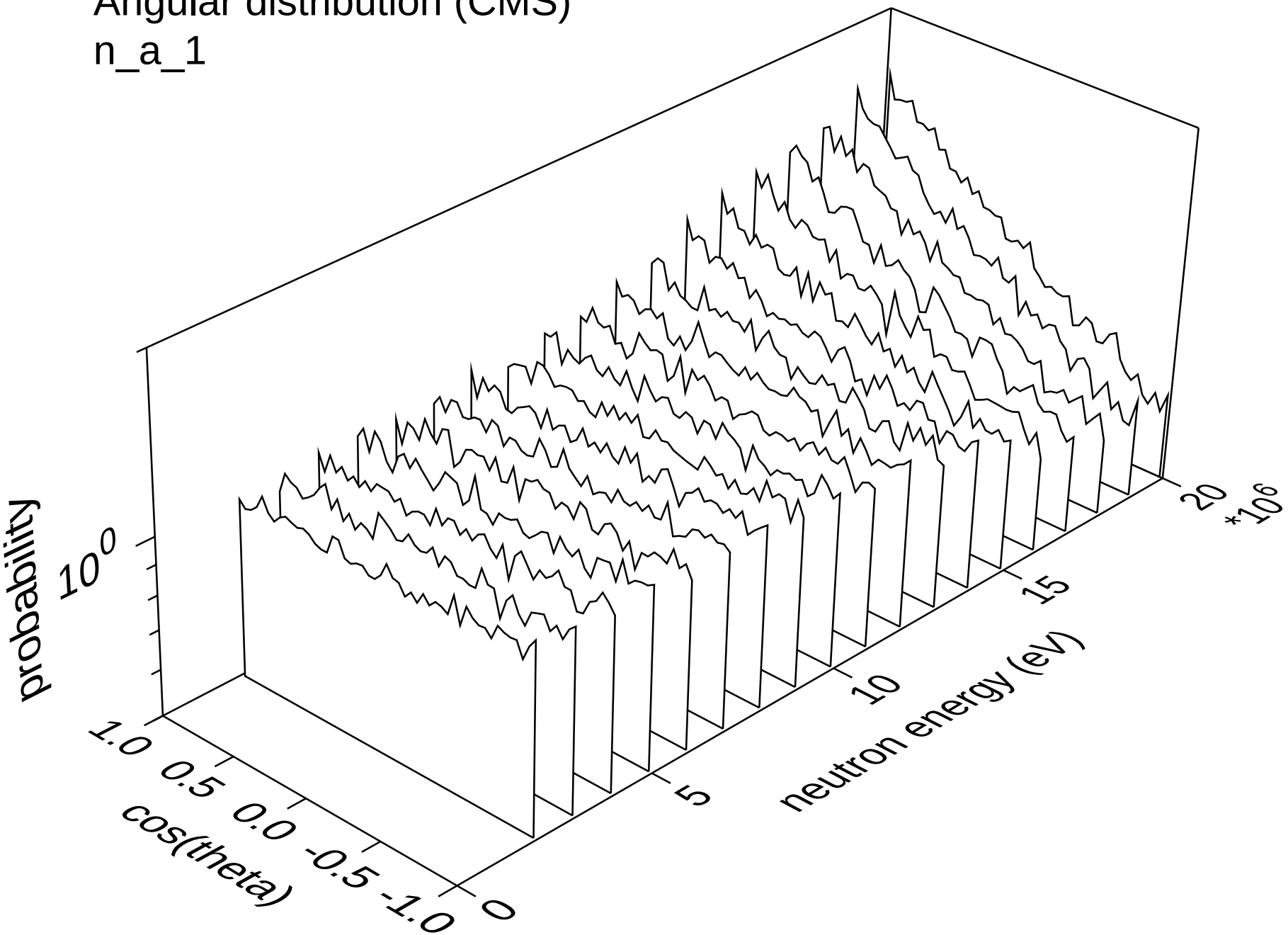

Angular distribution (CMS)
n_He3_28
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
19.0
19.5
20.0
*10^6
neutron energy (eV)

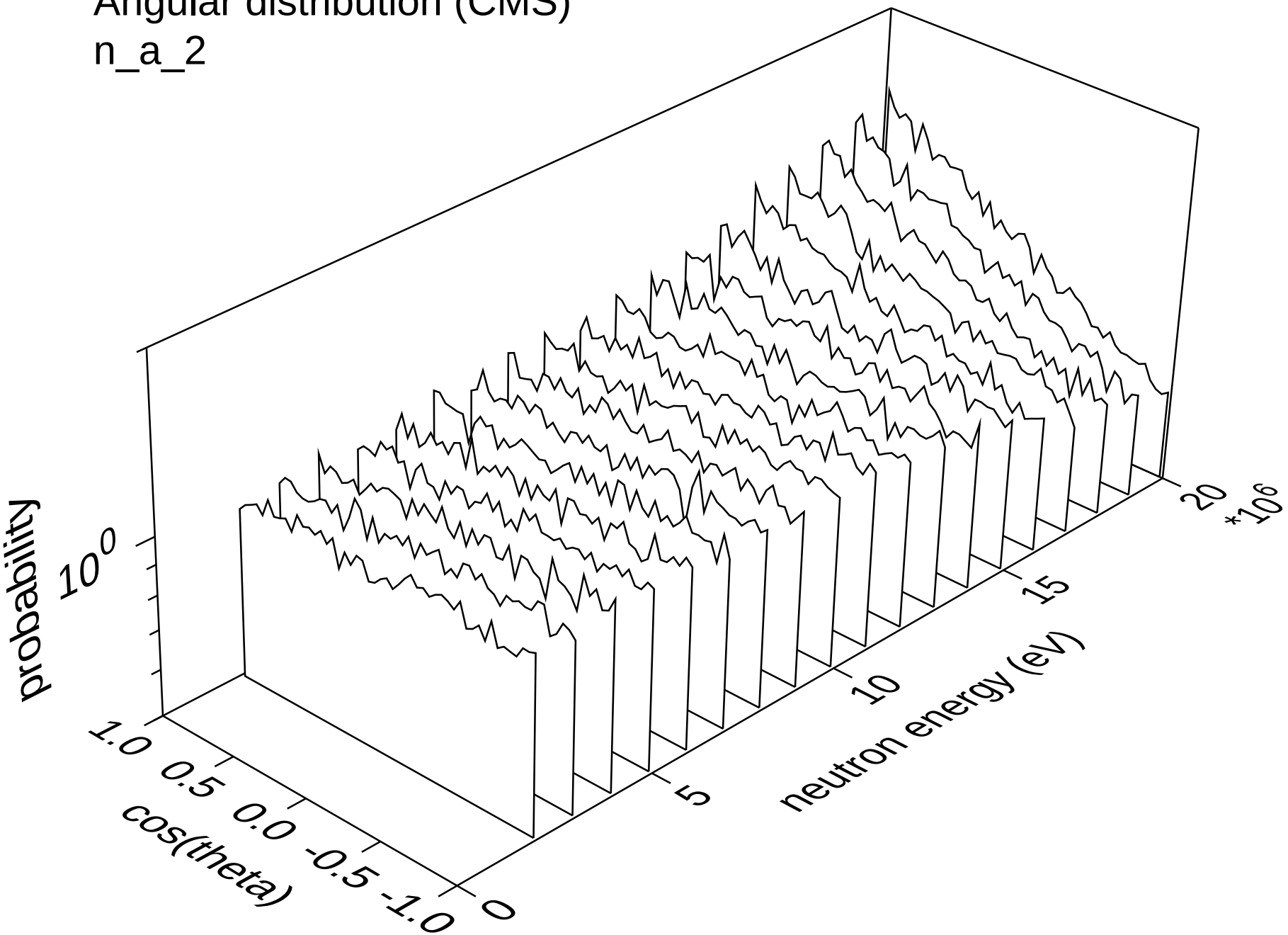

Angular distribution (CMS)
n_He3_29
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
19.0
19.5
20.0
*10^6
neutron energy (eV)

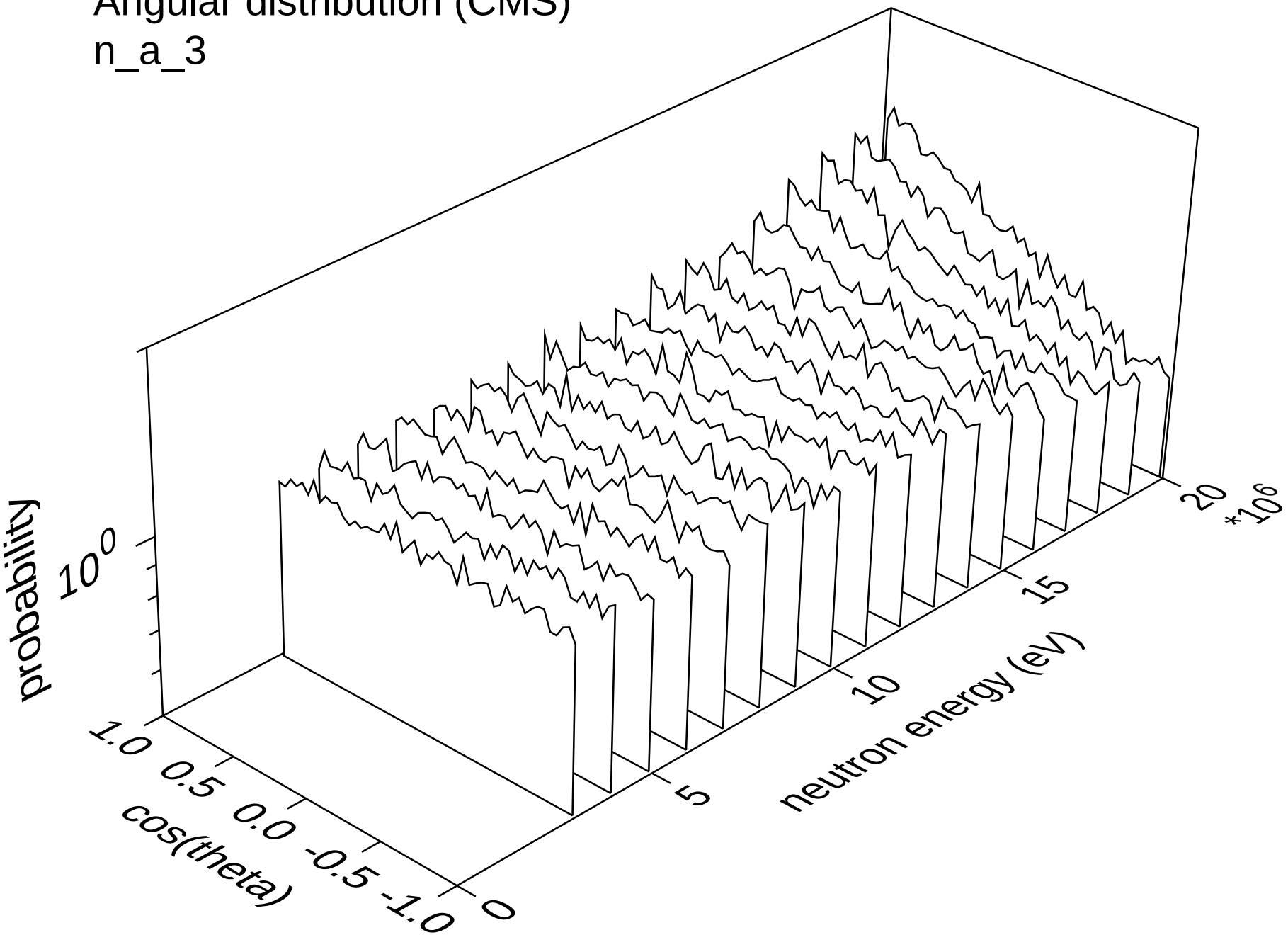

Angular distribution (CMS)
n_He3_cont part.=3He
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)

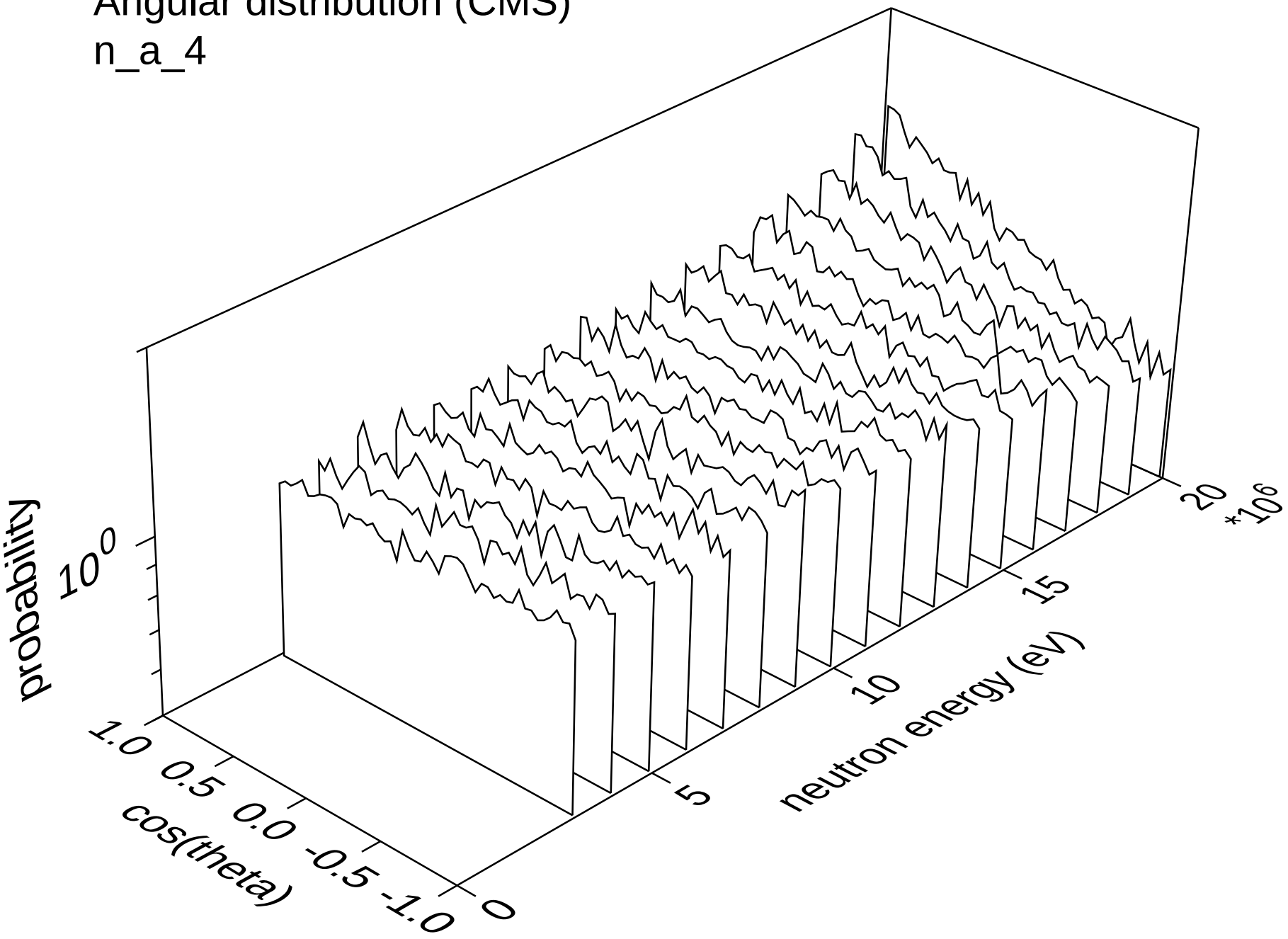

Angular distribution (CMS)
n_He3_cont part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)

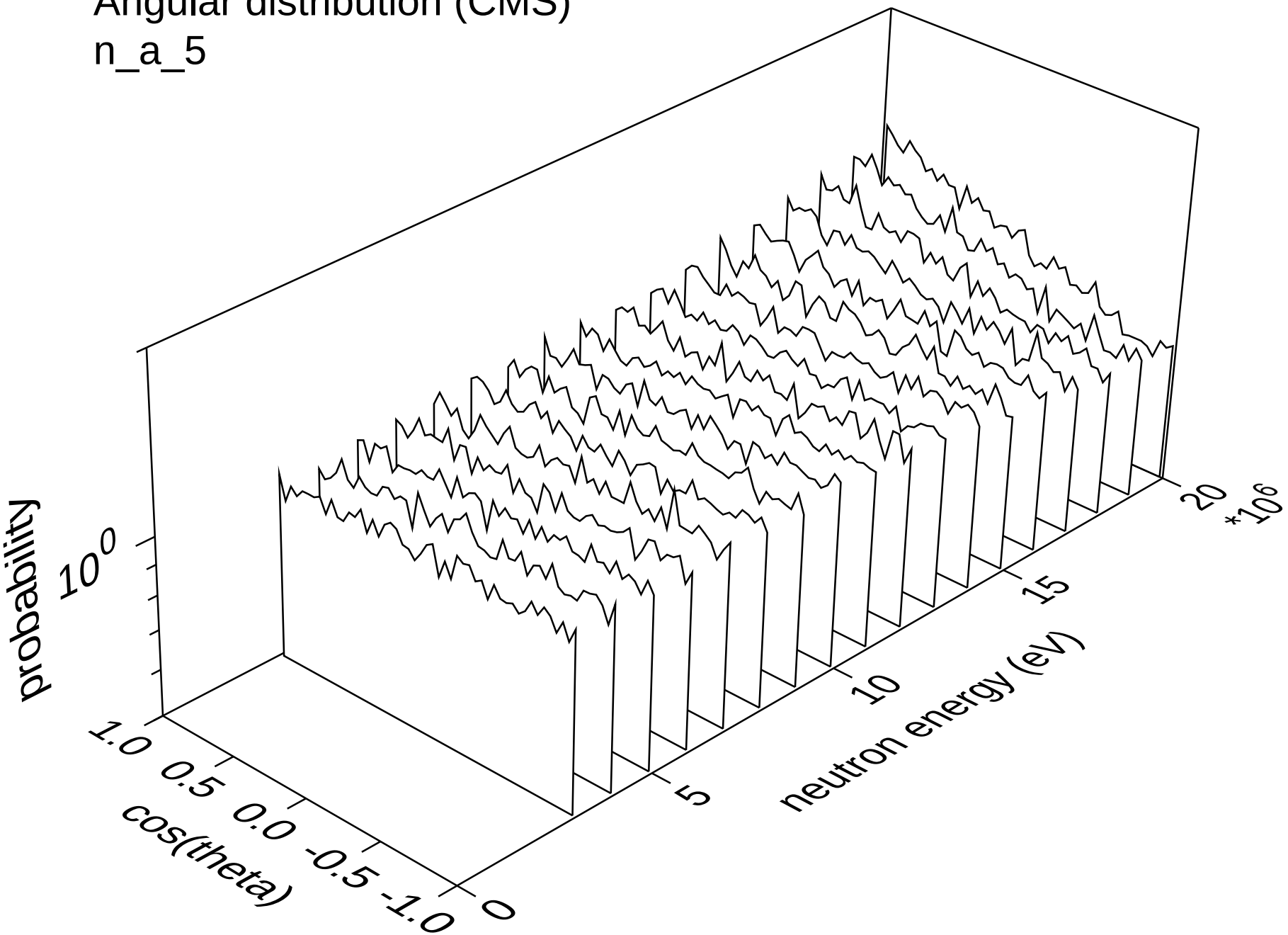

Angular distribution (CMS)
n_a_0
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

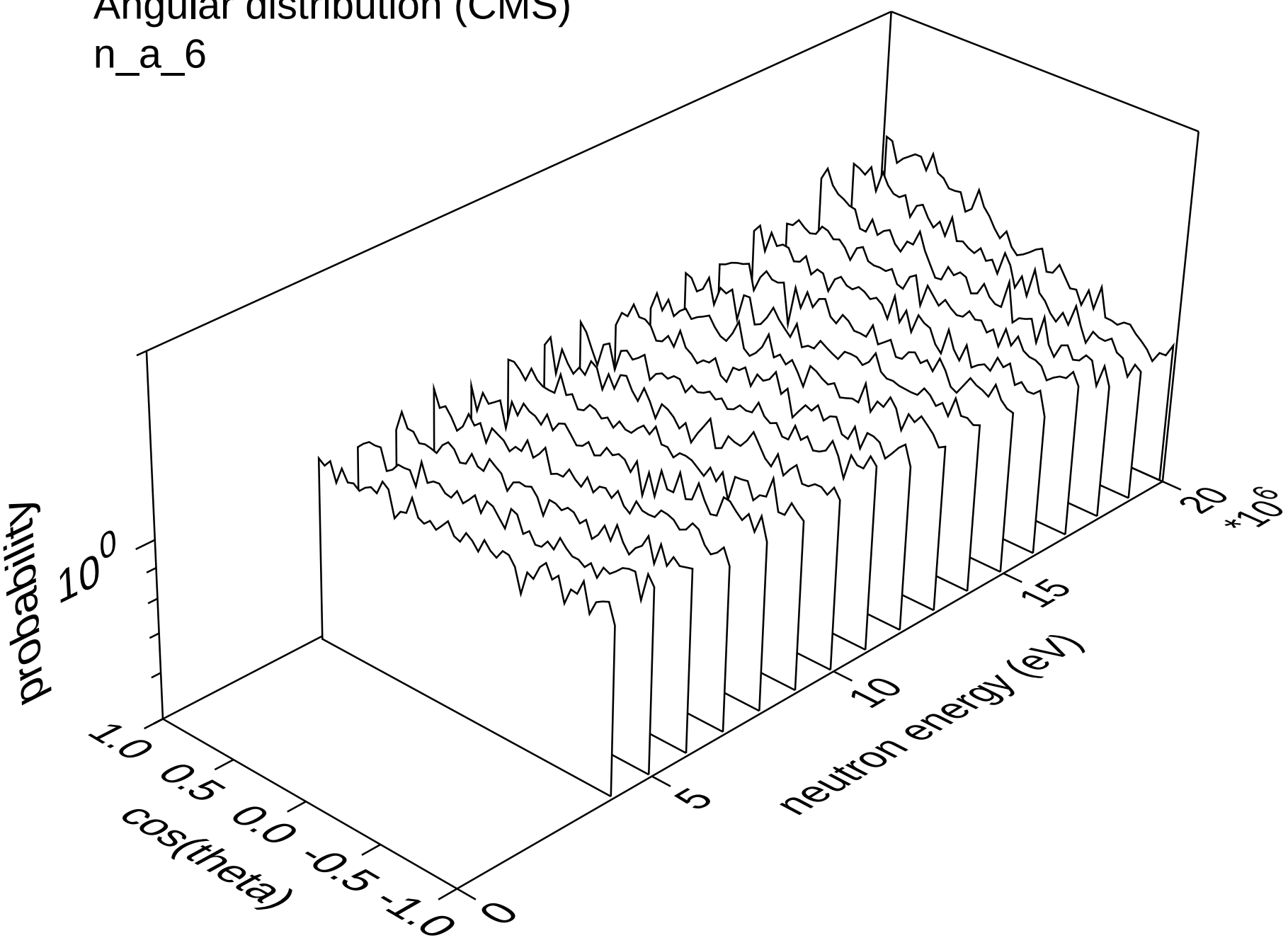

Angular distribution (CMS)
n_a_1
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

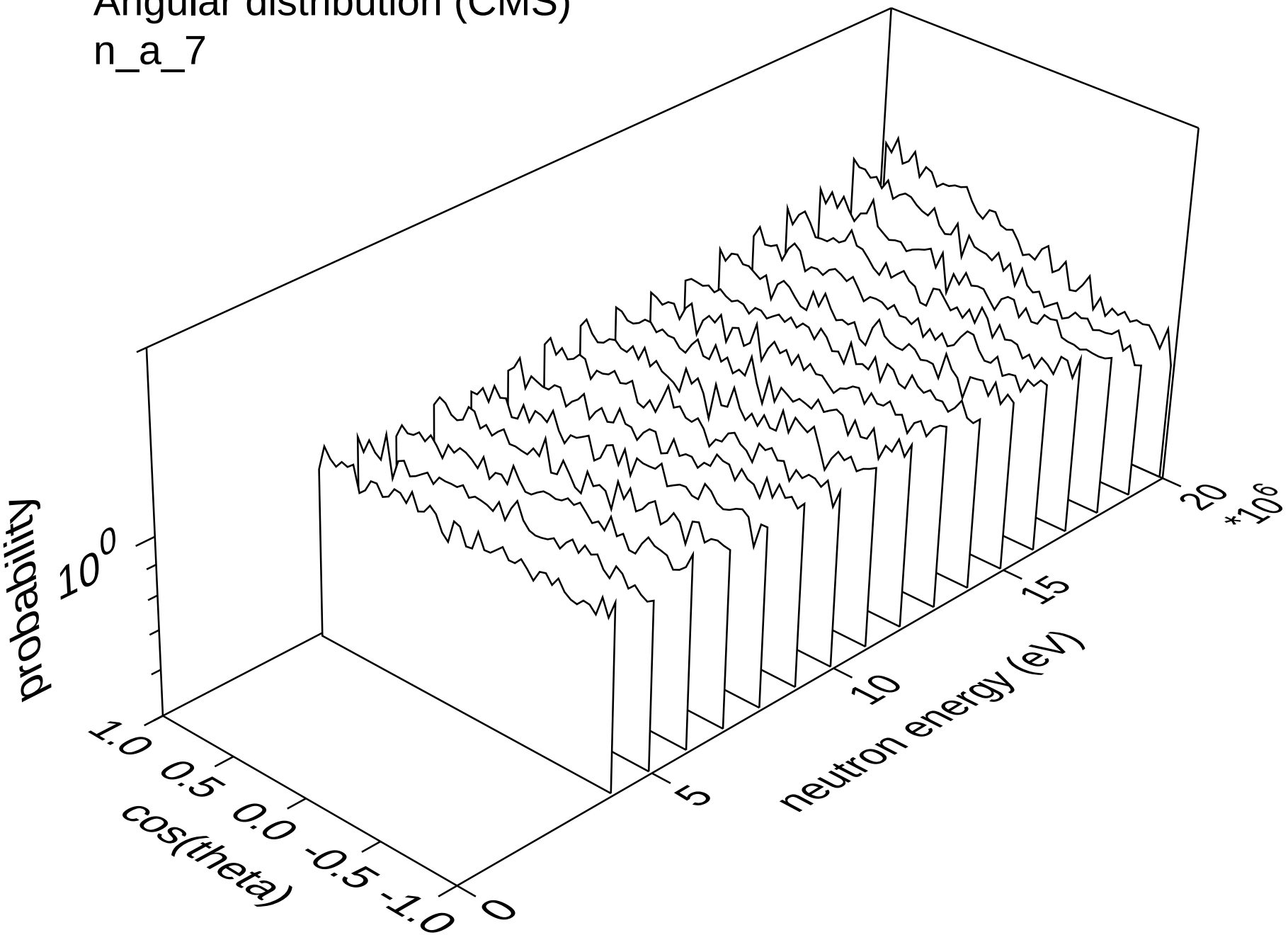

Angular distribution (CMS)
n_a_2
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

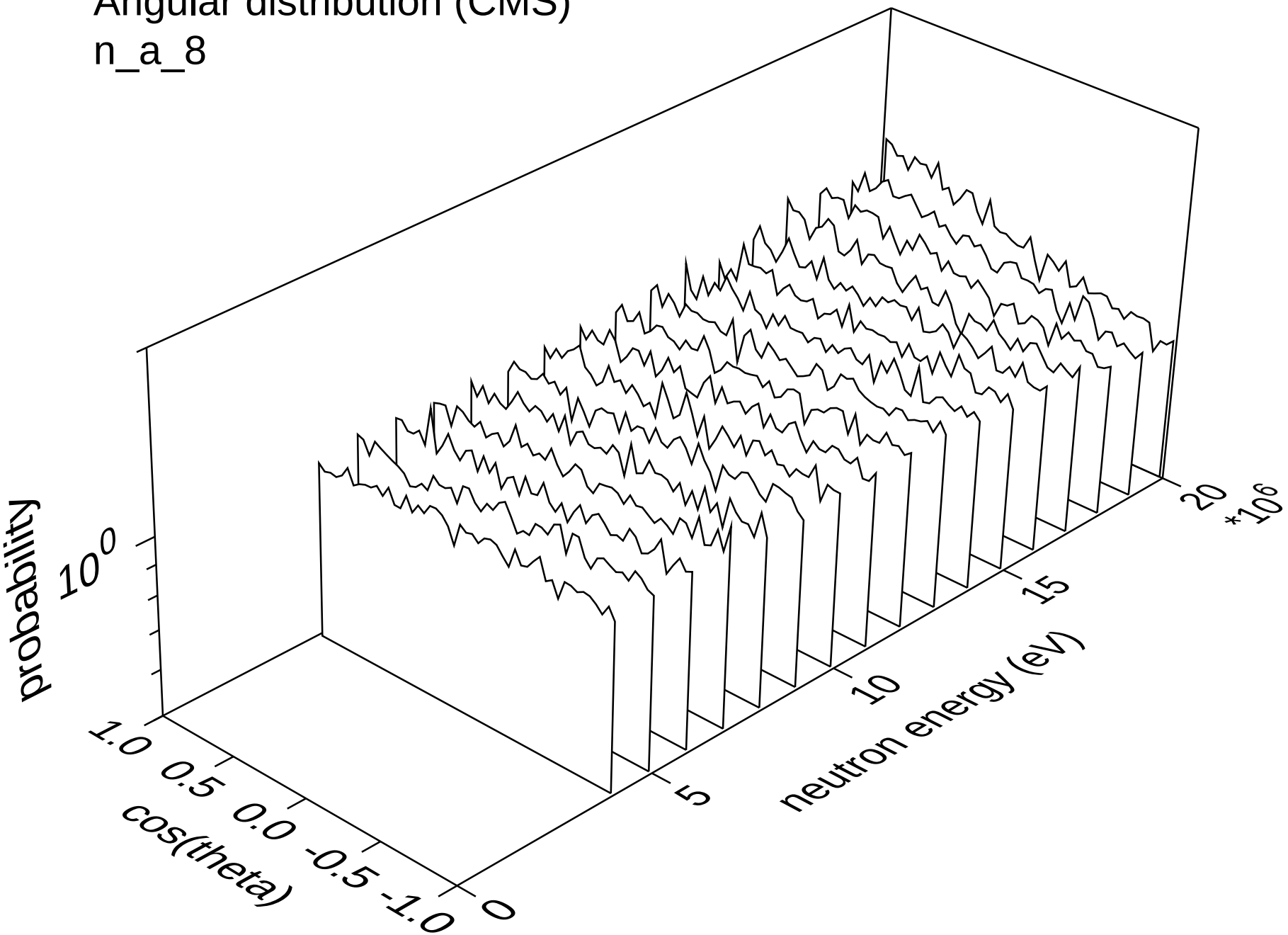

Angular distribution (CMS)
n_a_3
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

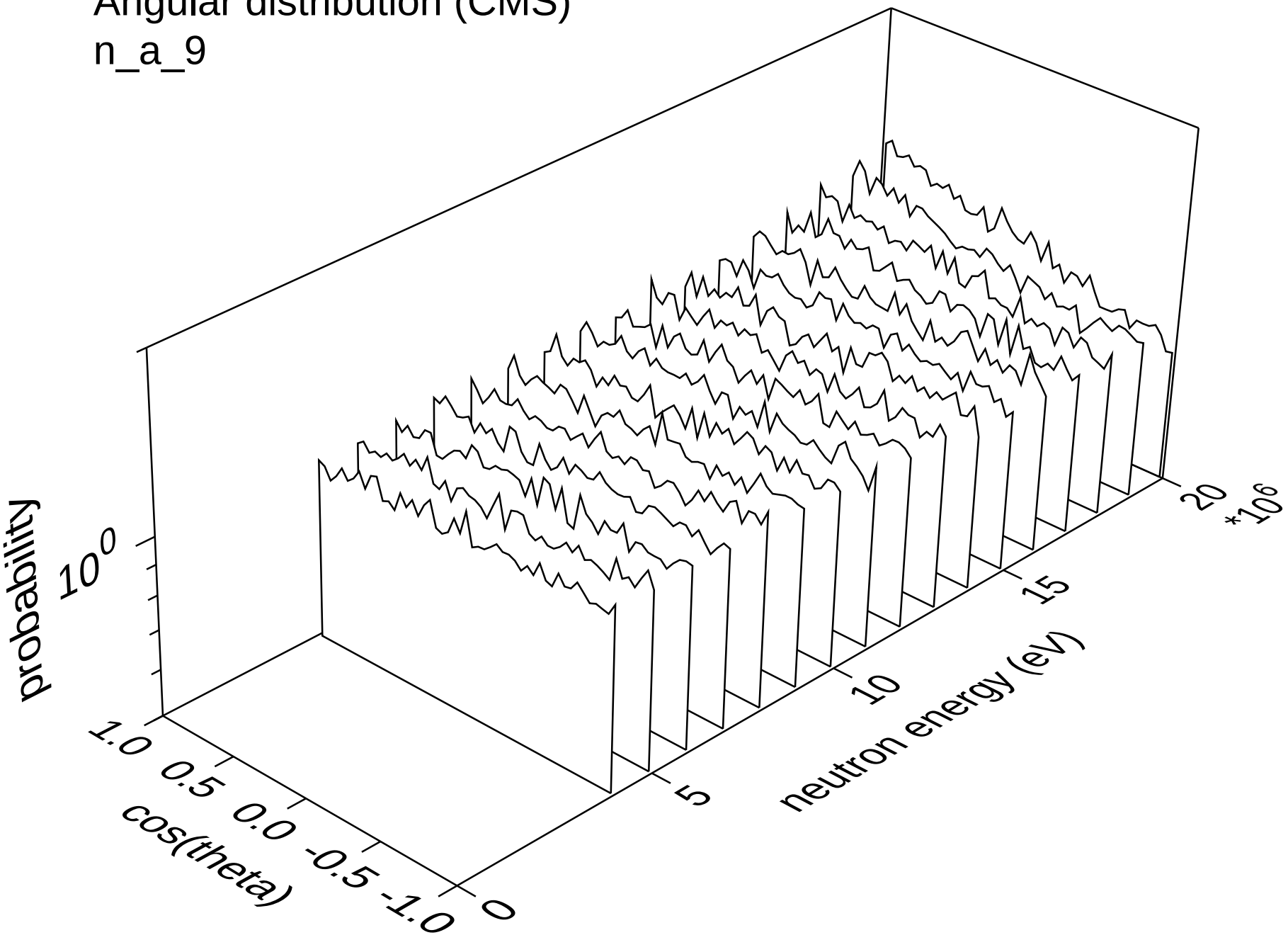

Angular distribution (CMS)
n_a_4
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

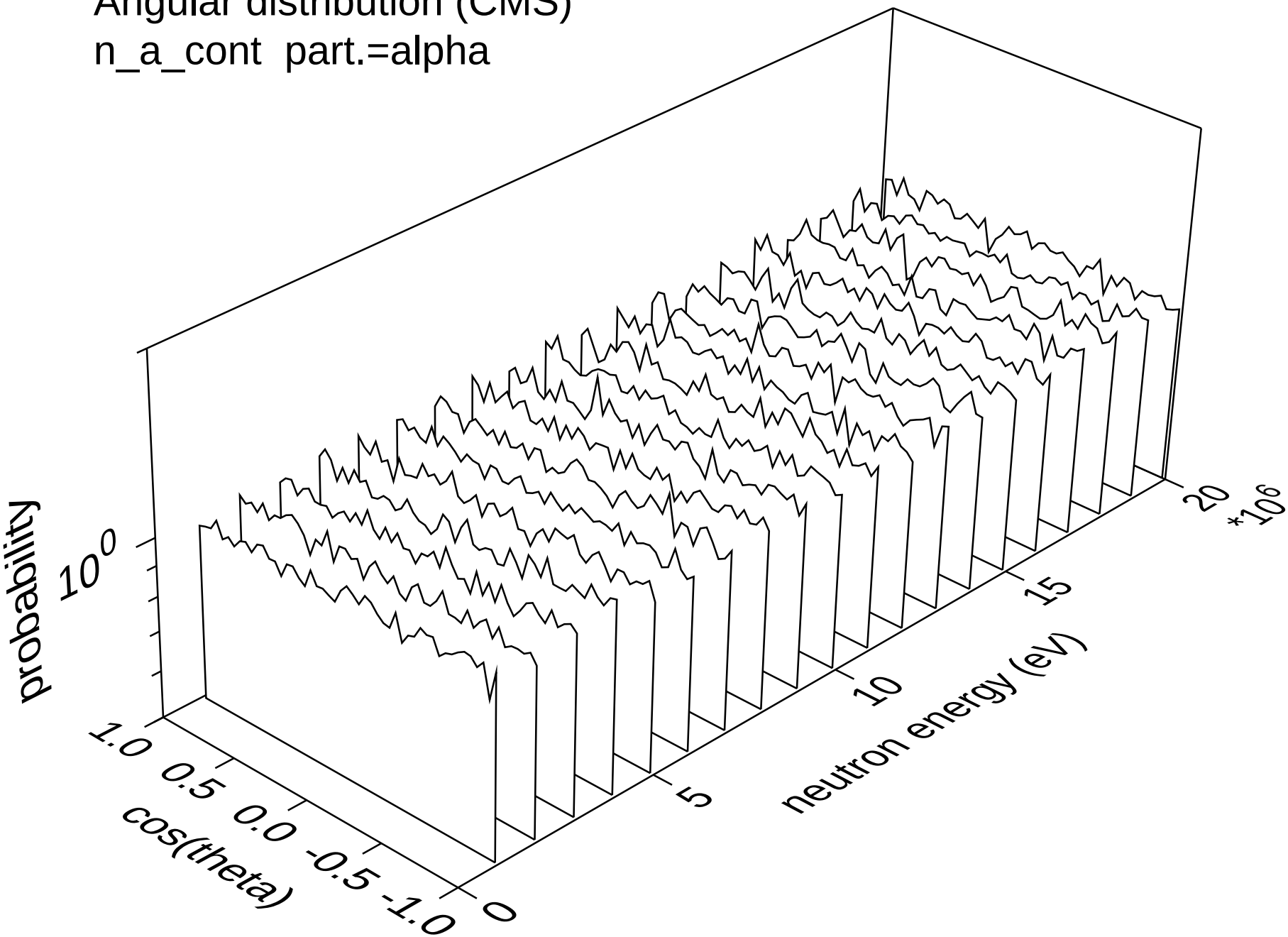

Angular distribution (CMS)
n_a_5
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

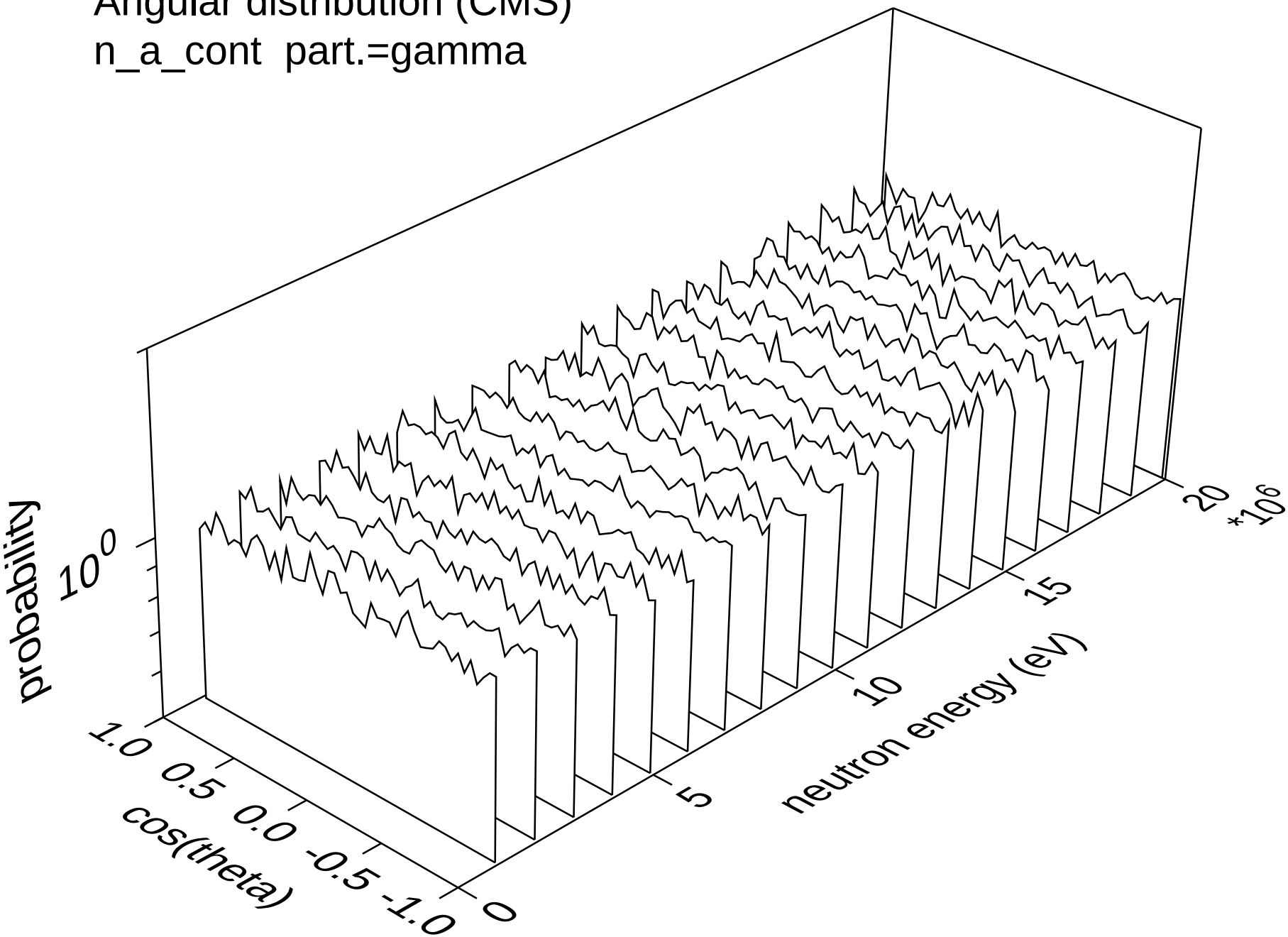

Angular distribution (CMS)
n_a_6
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

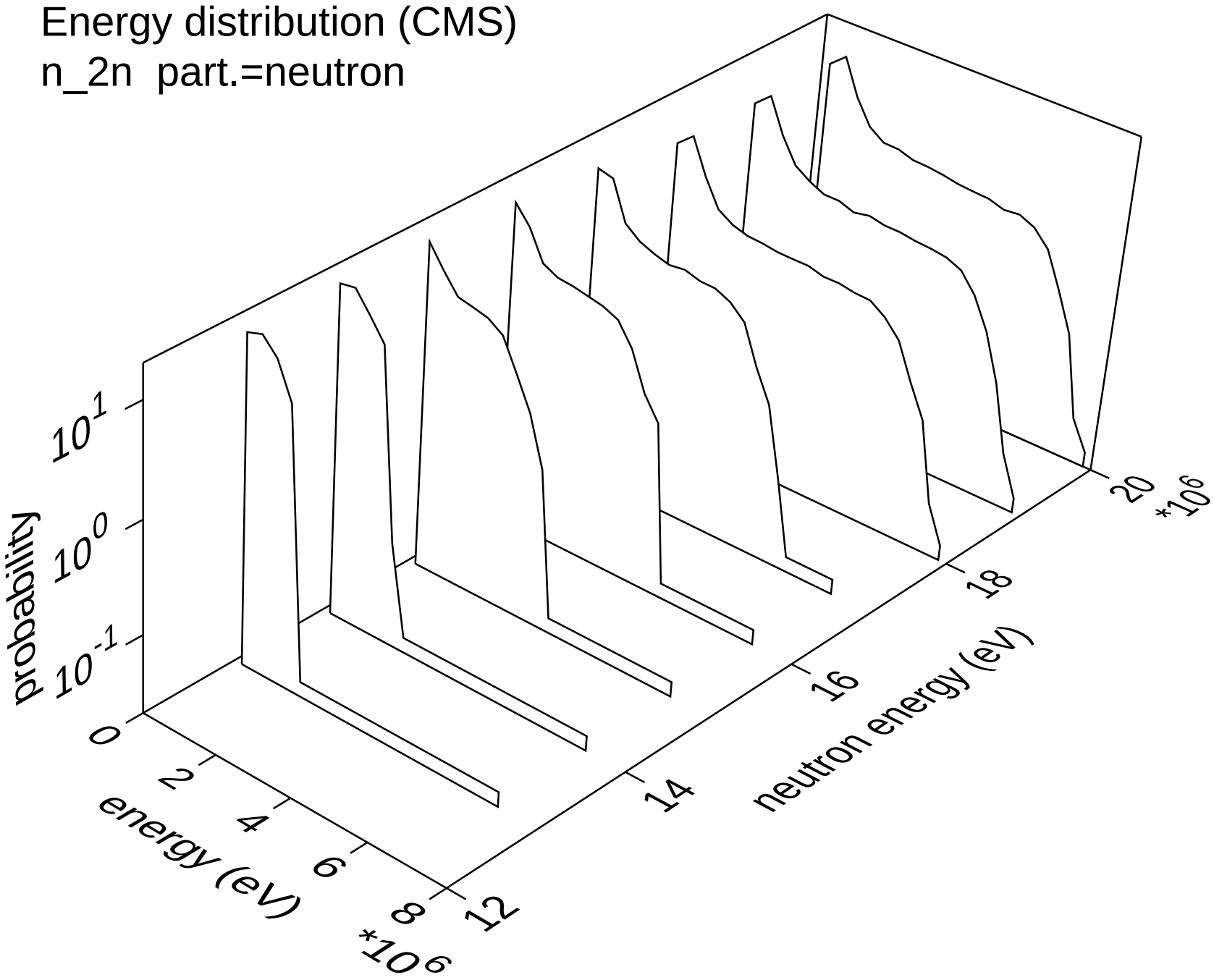

Angular distribution (CMS)
n_a_7
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

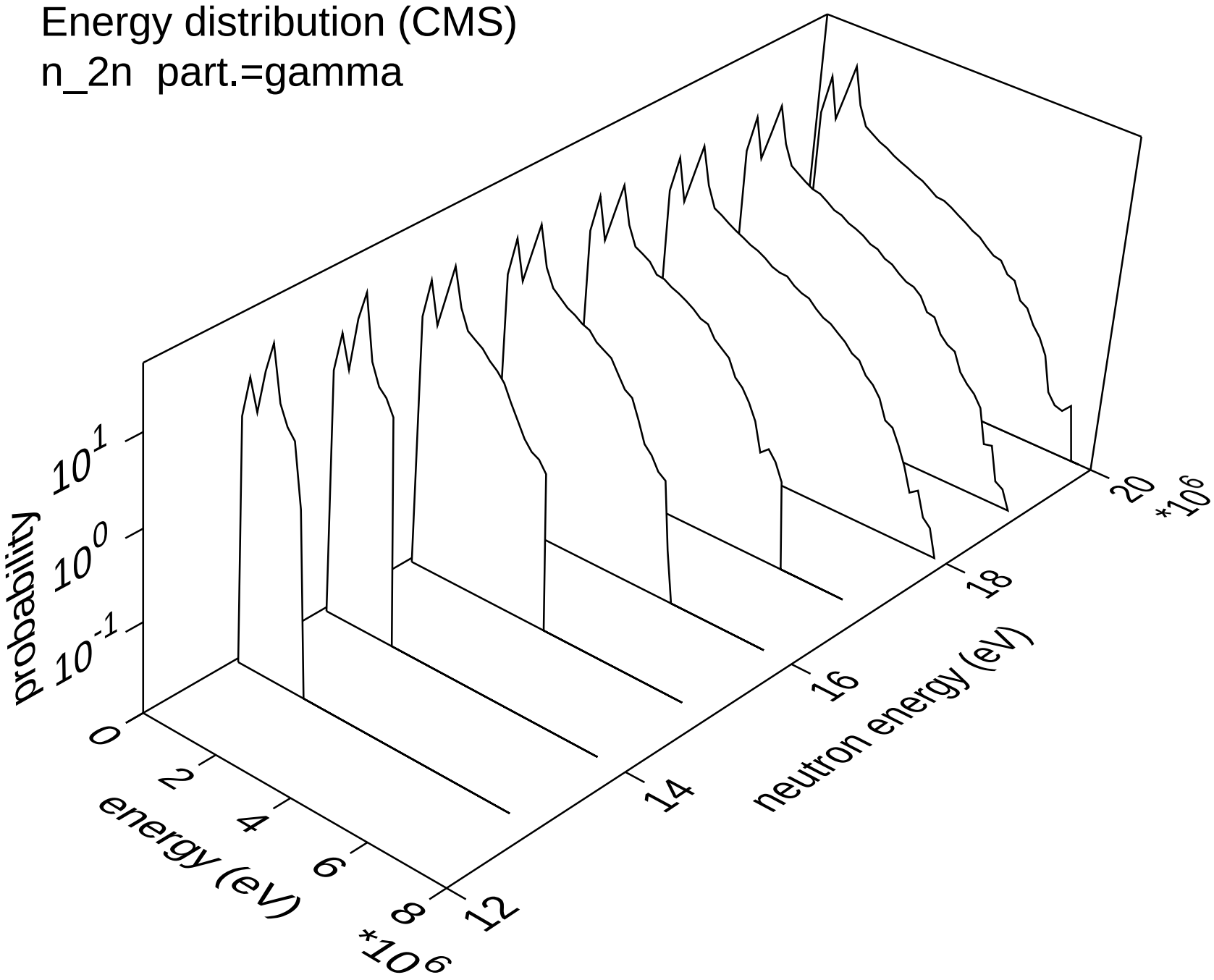

Angular distribution (CMS)
n_a_8
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

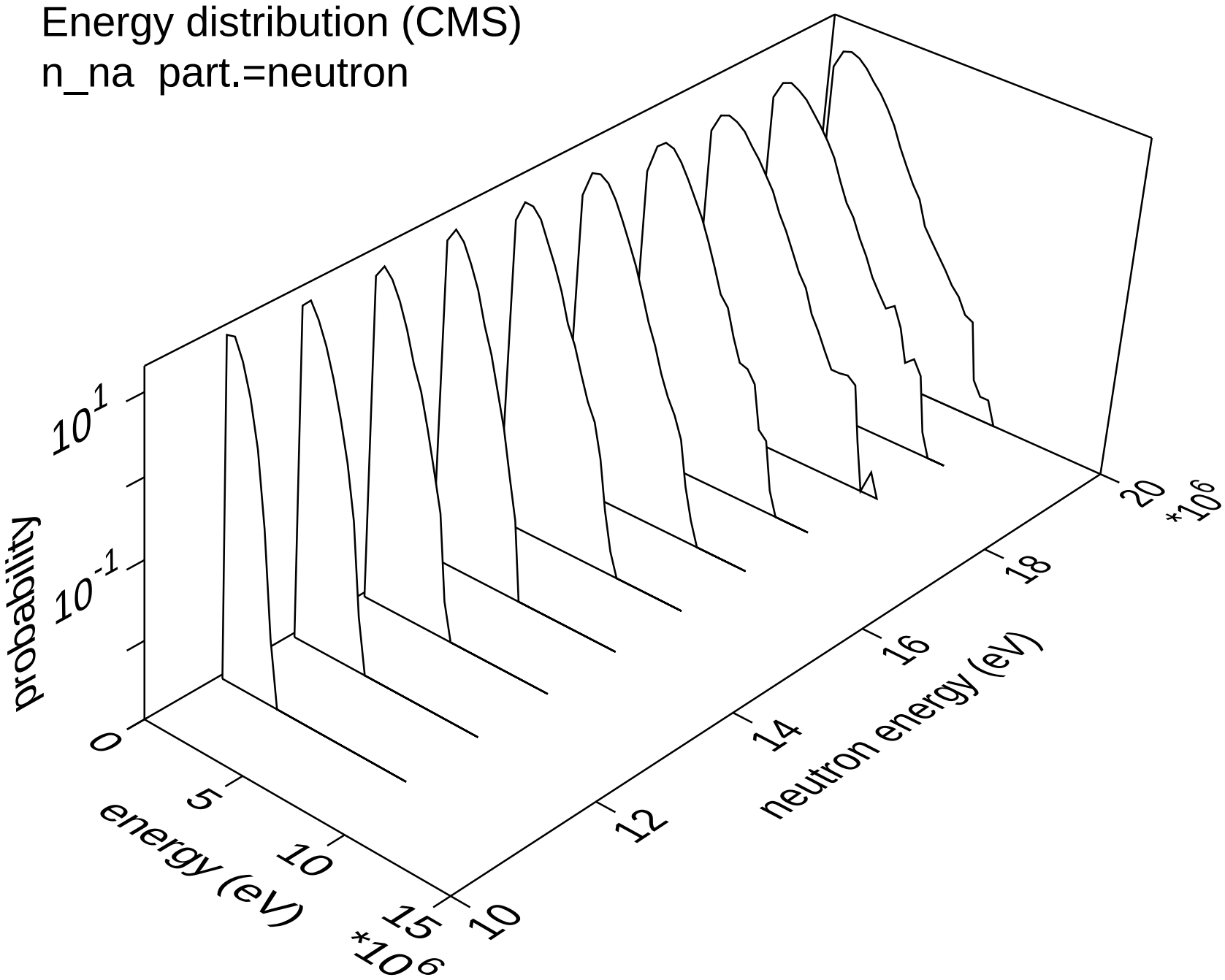

Angular distribution (CMS)
n_a_9
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

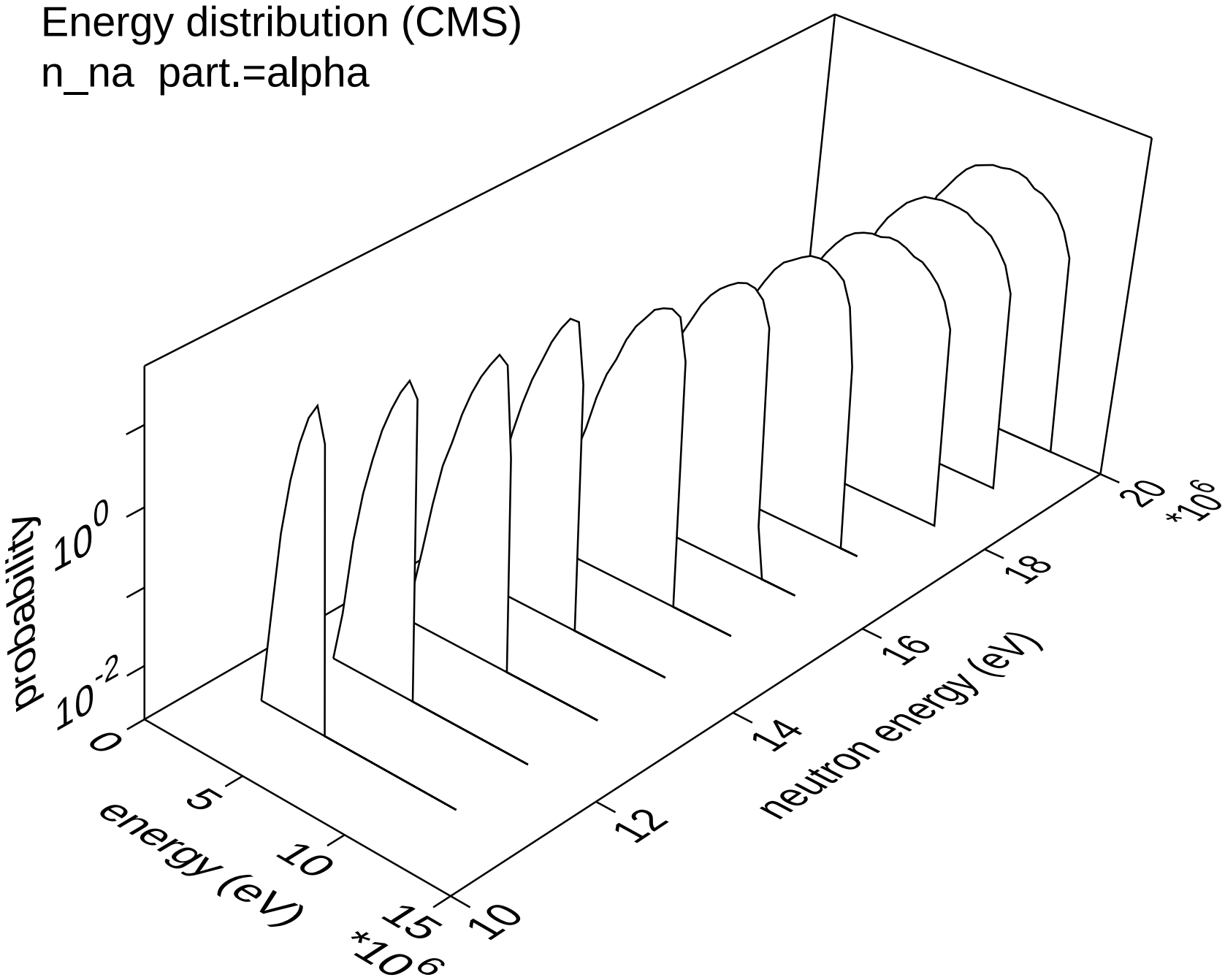

Angular distribution (CMS)
n_a_cont part.=alpha
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

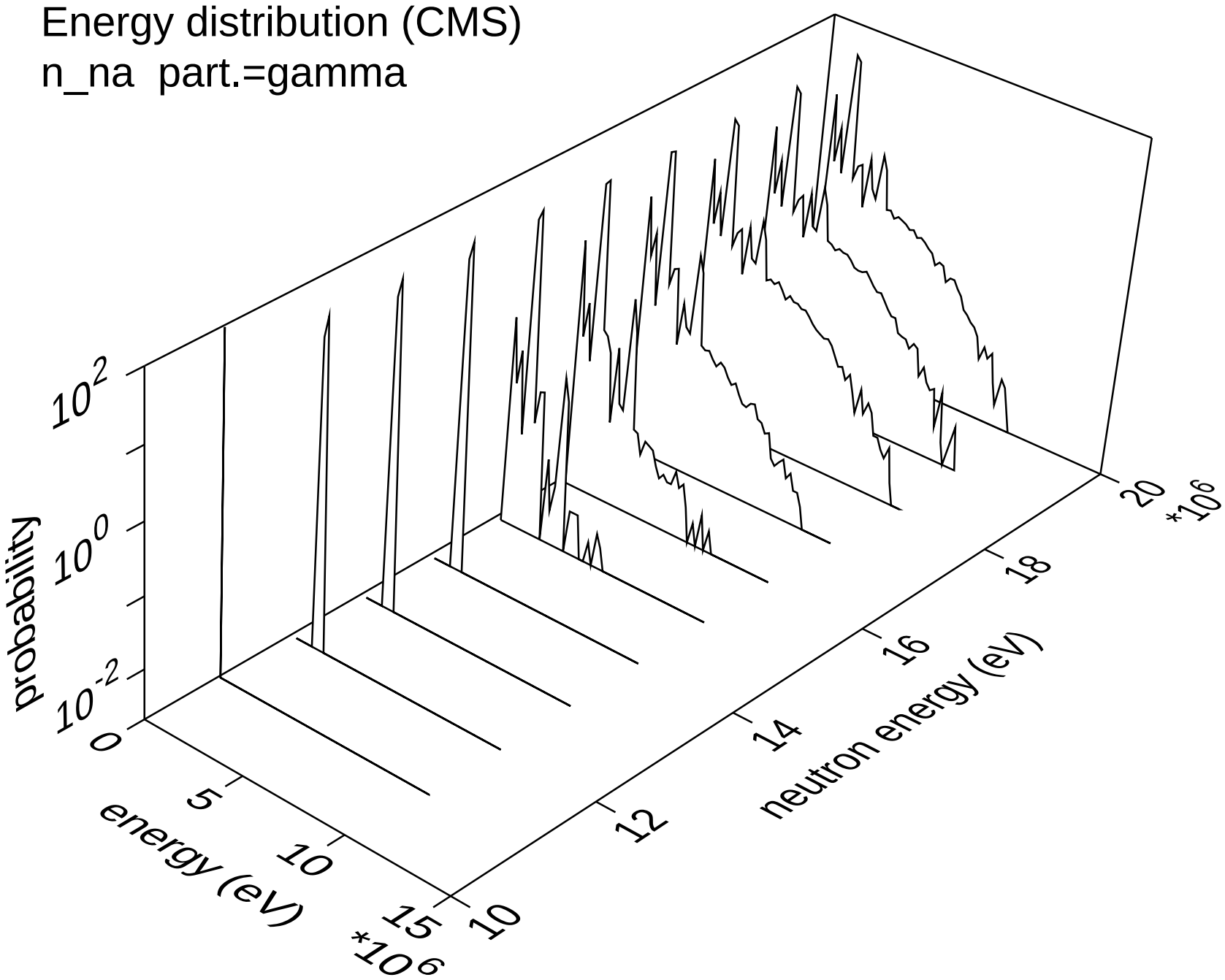

Angular distribution (CMS)
n_a_cont part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

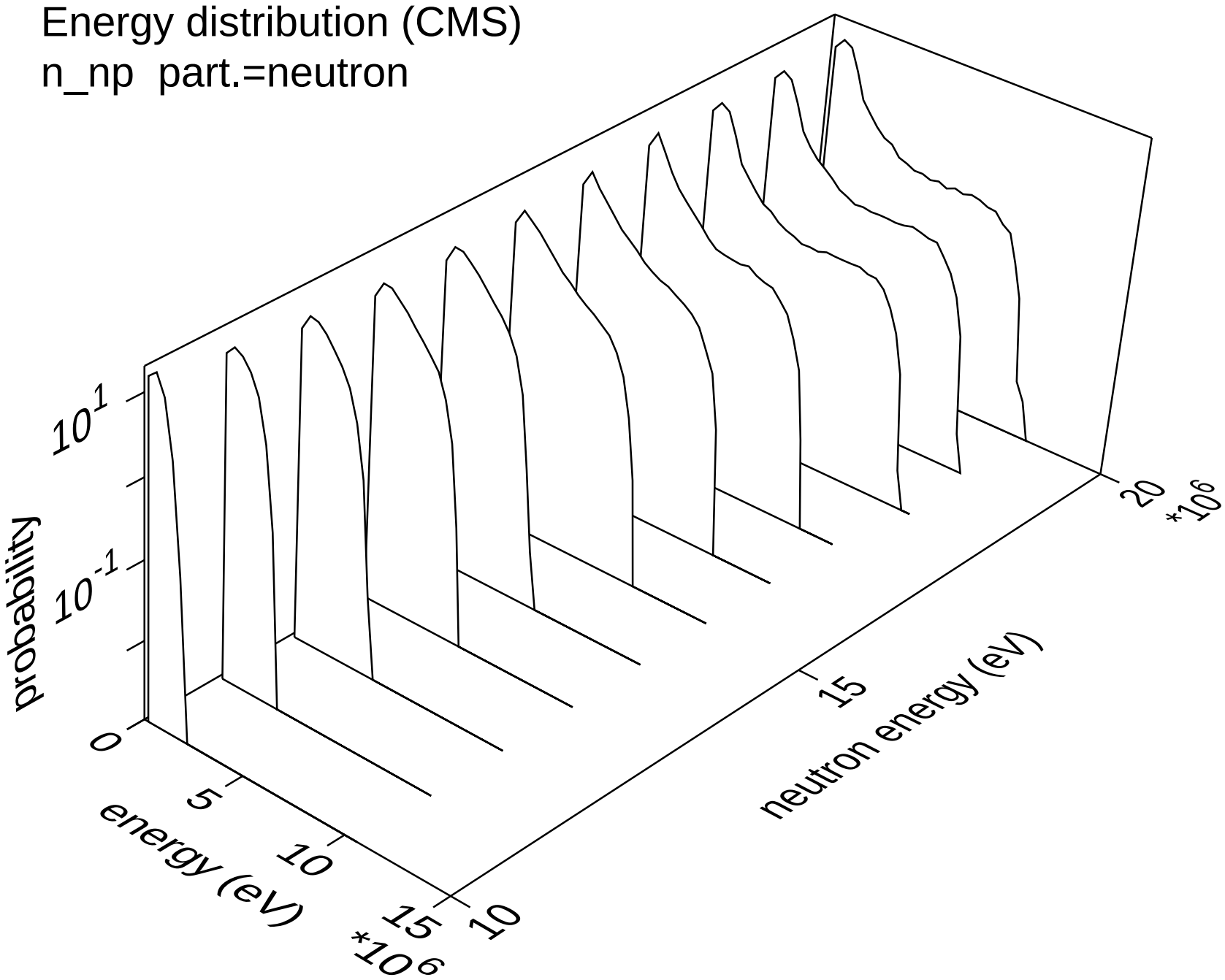

Energy distribution (CMS)
n_2n part.=neutron
probability
10^{1}
10^{0}
10^{-1}
0
2
4
6
8
*10 6
energy (eV)
12
14
16
18
20
*10^6
neutron energy (eV)

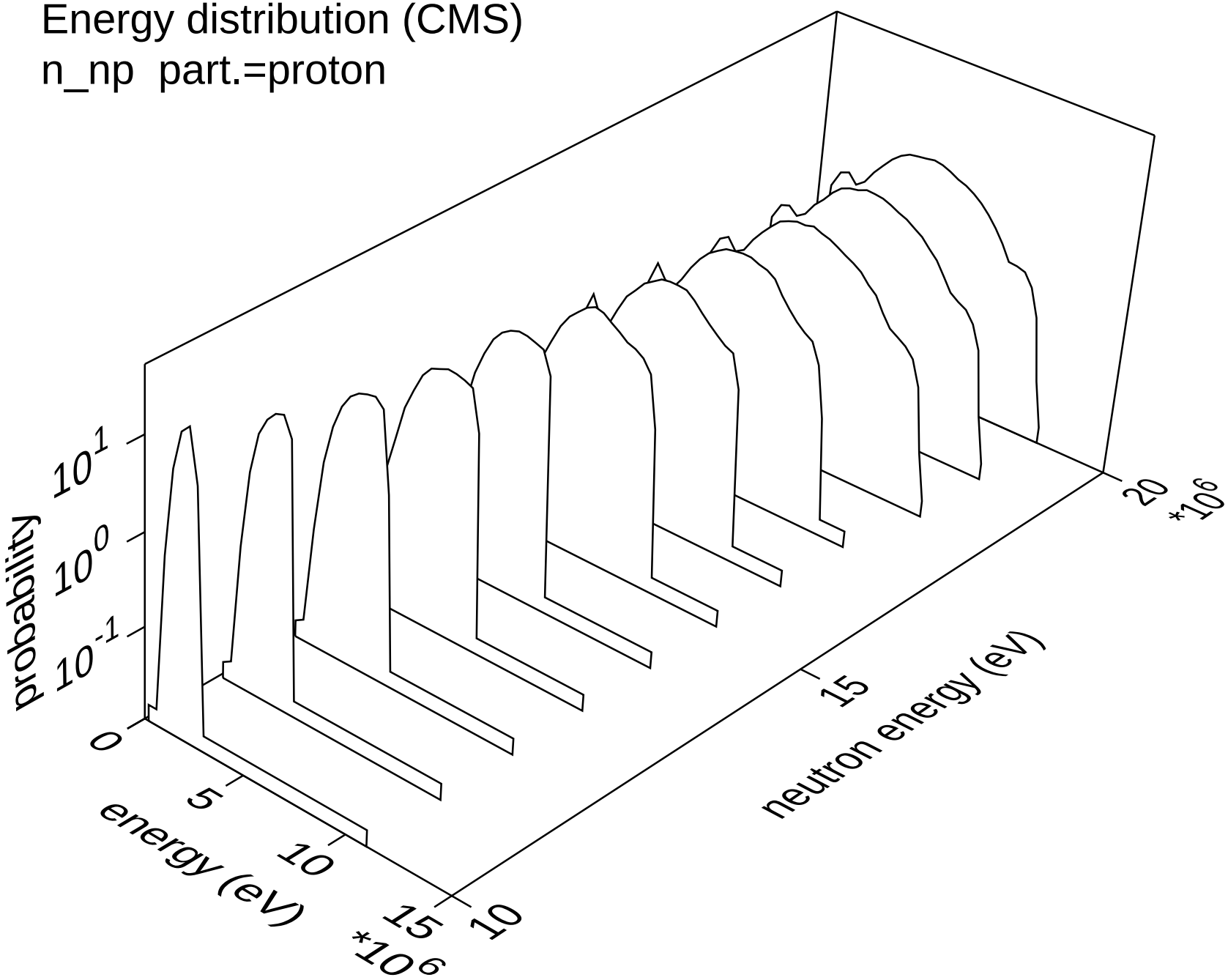

Energy distribution (CMS)
n_2n part.=gamma
probability
10^{1}
10^{0}
10^{-1}
0
2
4
6
8
*10^6
energy (eV)
12
14
16
18
20
*10^6
neutron energy (eV)

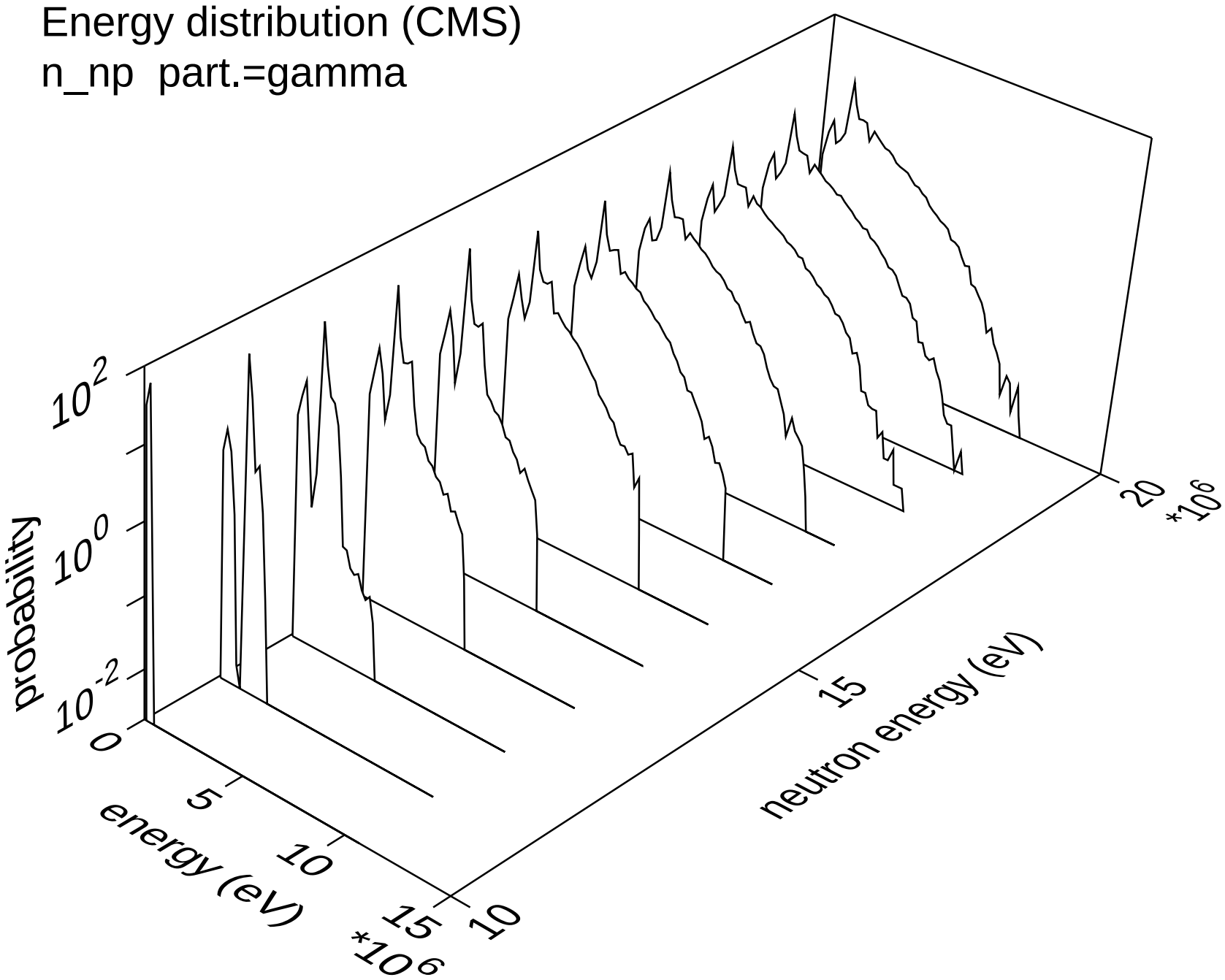

Energy distribution (CMS)
n_na part.=neutron
probability
10^{1}
10^{-1}
0
5
10
15
*10^6
energy (eV)
10
12
14
16
18
20
*10^6
neutron energy (eV)

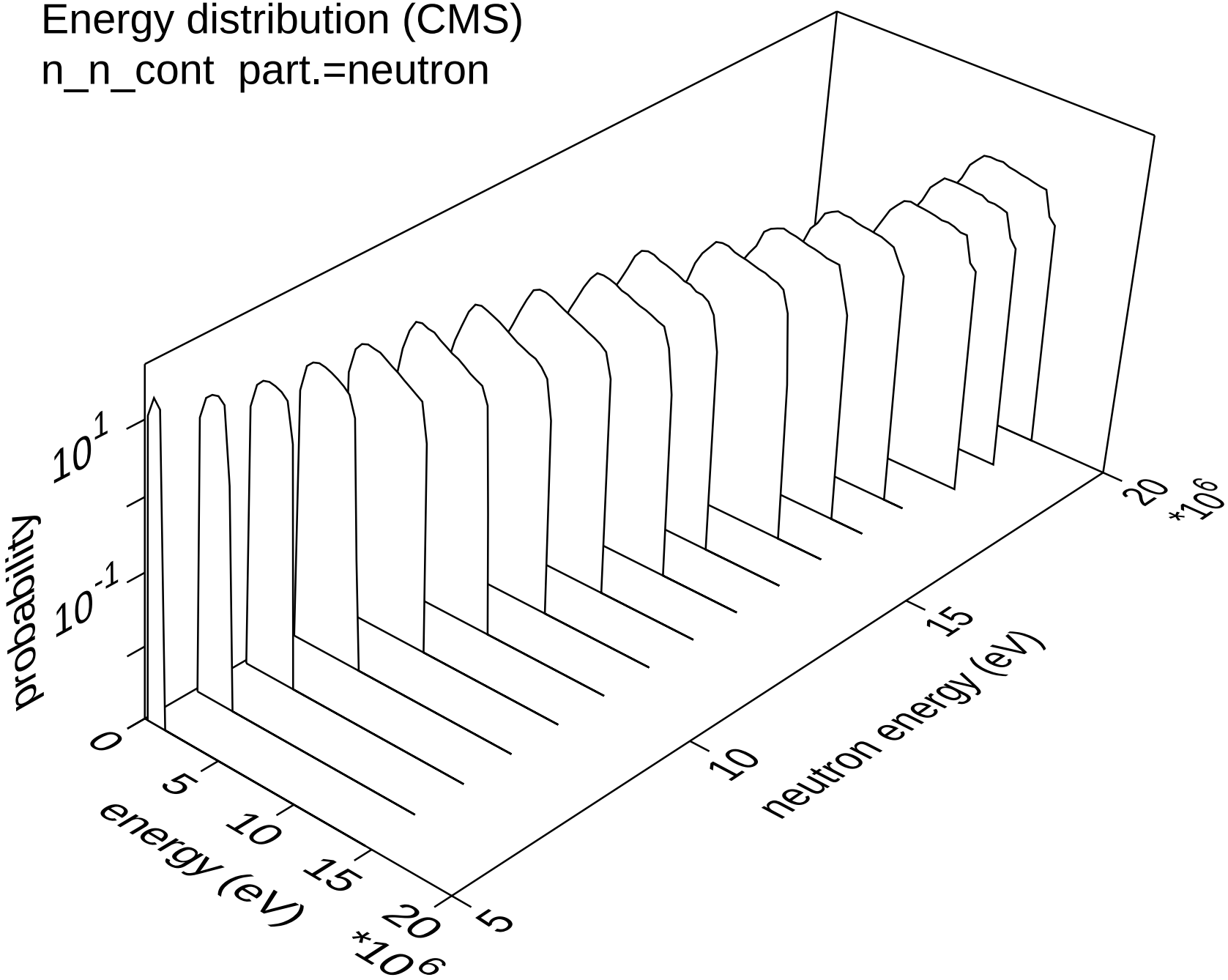

Energy distribution (CMS)
n_na part.=alpha
probability
10^0
10^{-2}
0
5
10
15
*10^6
energy (eV)
10
12
14
16
18
20
*10^6
neutron energy (eV)

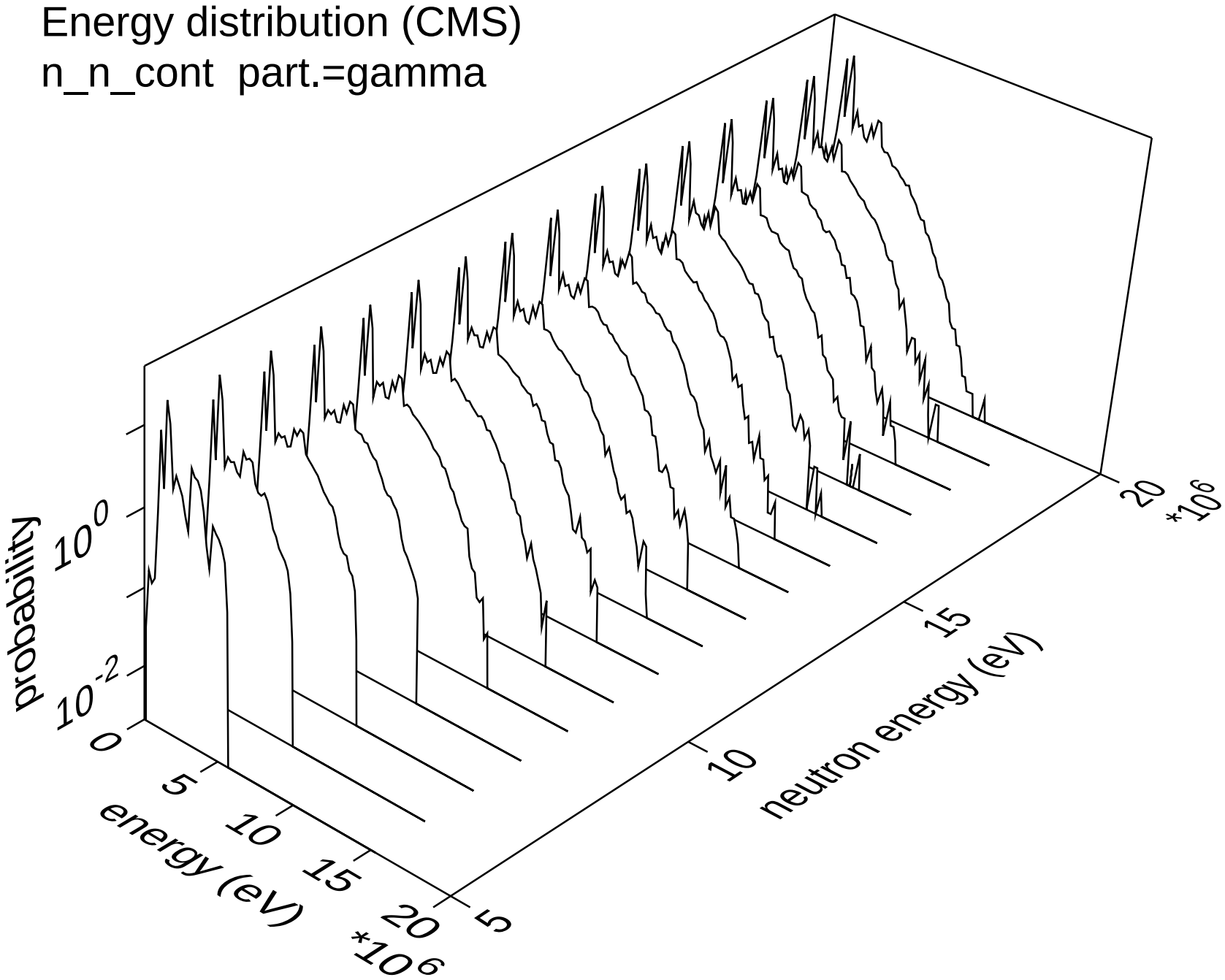

Energy distribution (CMS)
n_na part.=gamma
probability
10^{2}
10^{0}
10^{-2}
0
5
10
15
energy (eV)
*10^6
10
12
14
16
18
20
neutron energy (eV)
*10^6

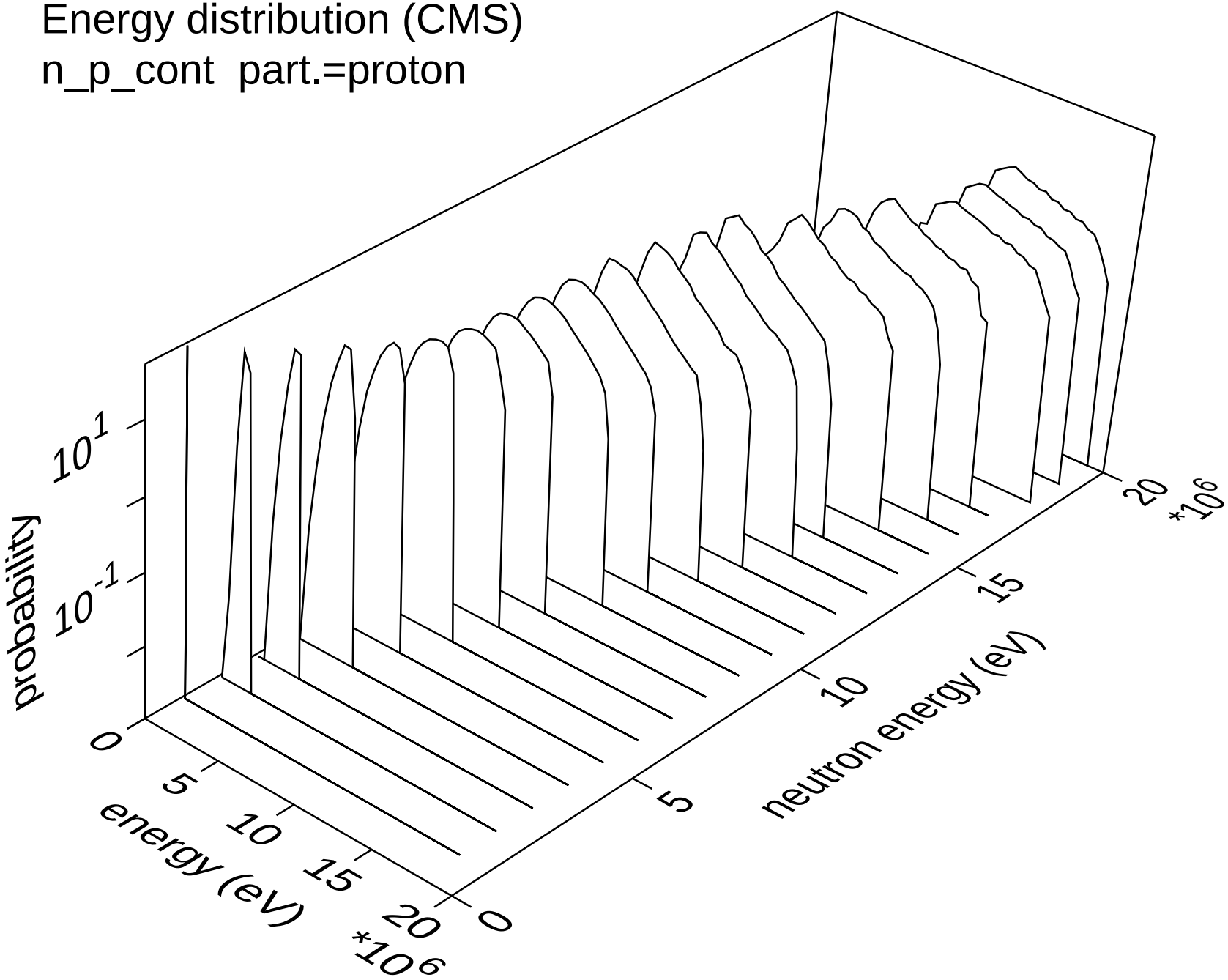

Energy distribution (CMS)
n_np part.=neutron
probability
10^{1}
10^{-1}
0
5
10
15
energy (eV)
*10^6
10
15
20
neutron energy (eV)
*10^6

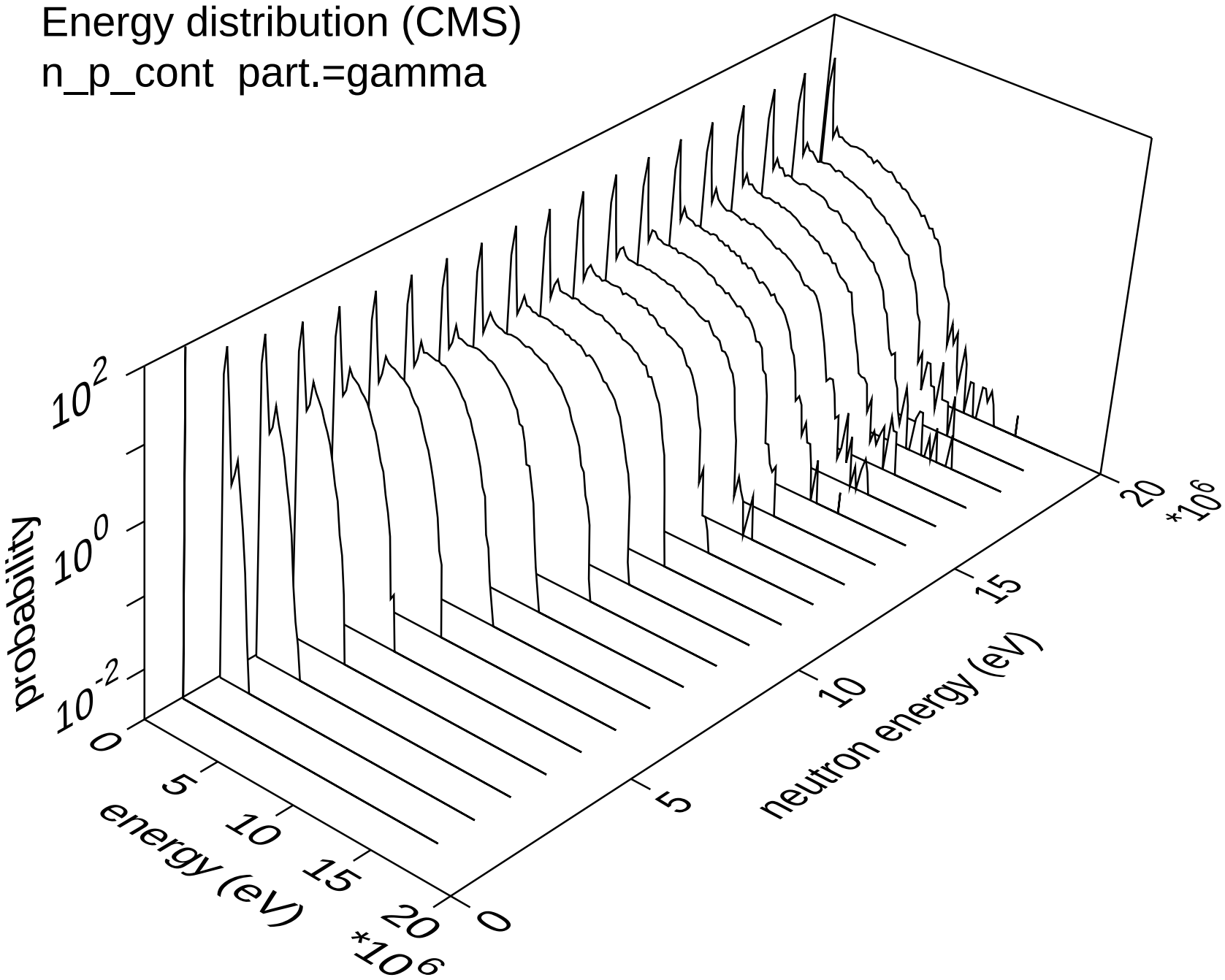

Energy distribution (CMS)
n_np part.=proton
probability
10^{1}
10^{0}
10^{-1}
0
5
10
15
energy (eV)
*10^6
10
15
20
neutron energy (eV)
*10^6

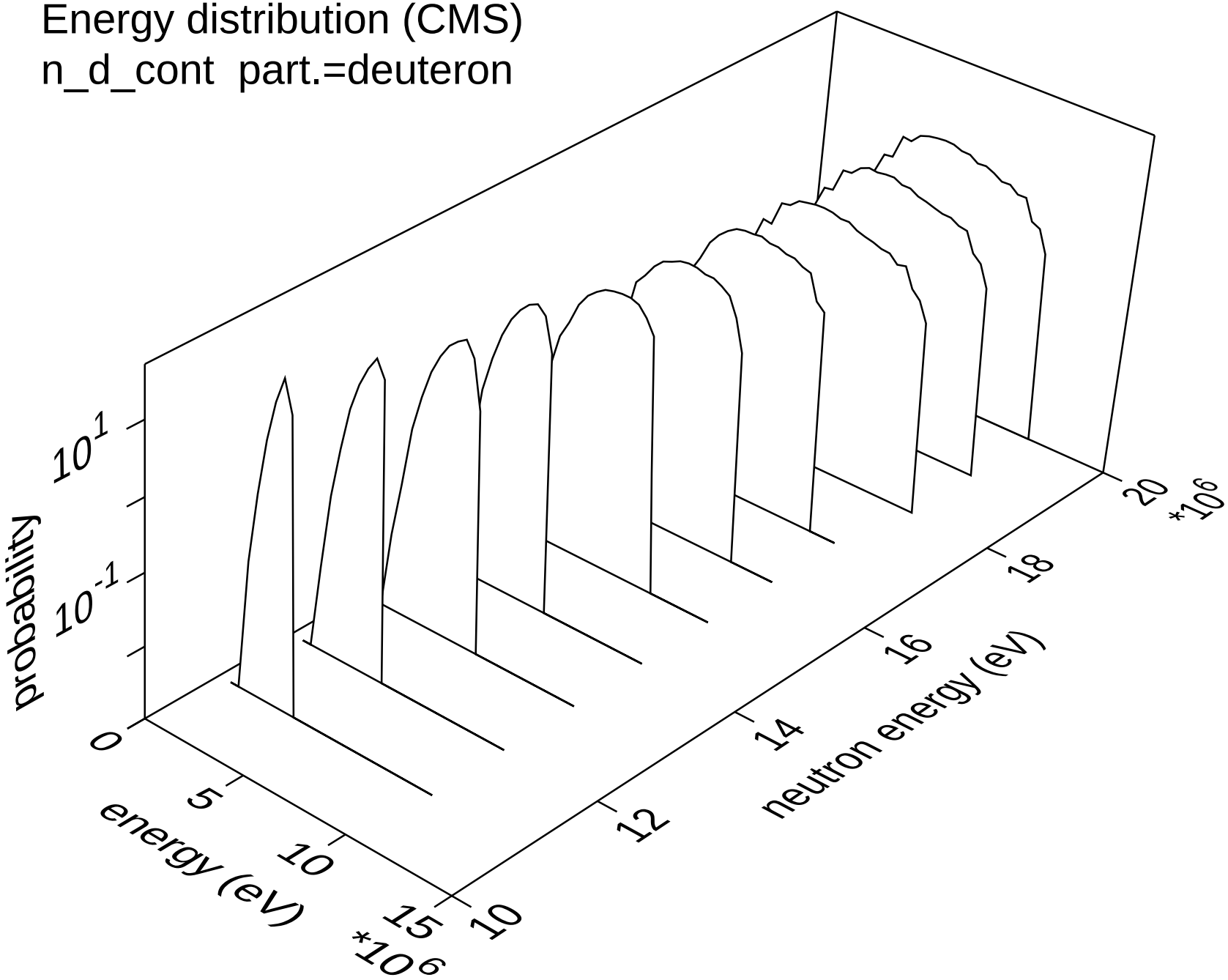

Energy distribution (CMS)
n_np part.=gamma
probability
10^{2}
10^{0}
10^{-2}
0
5
10
15
energy (eV)
*10^6
10
15
20
neutron energy (eV)
*10^6

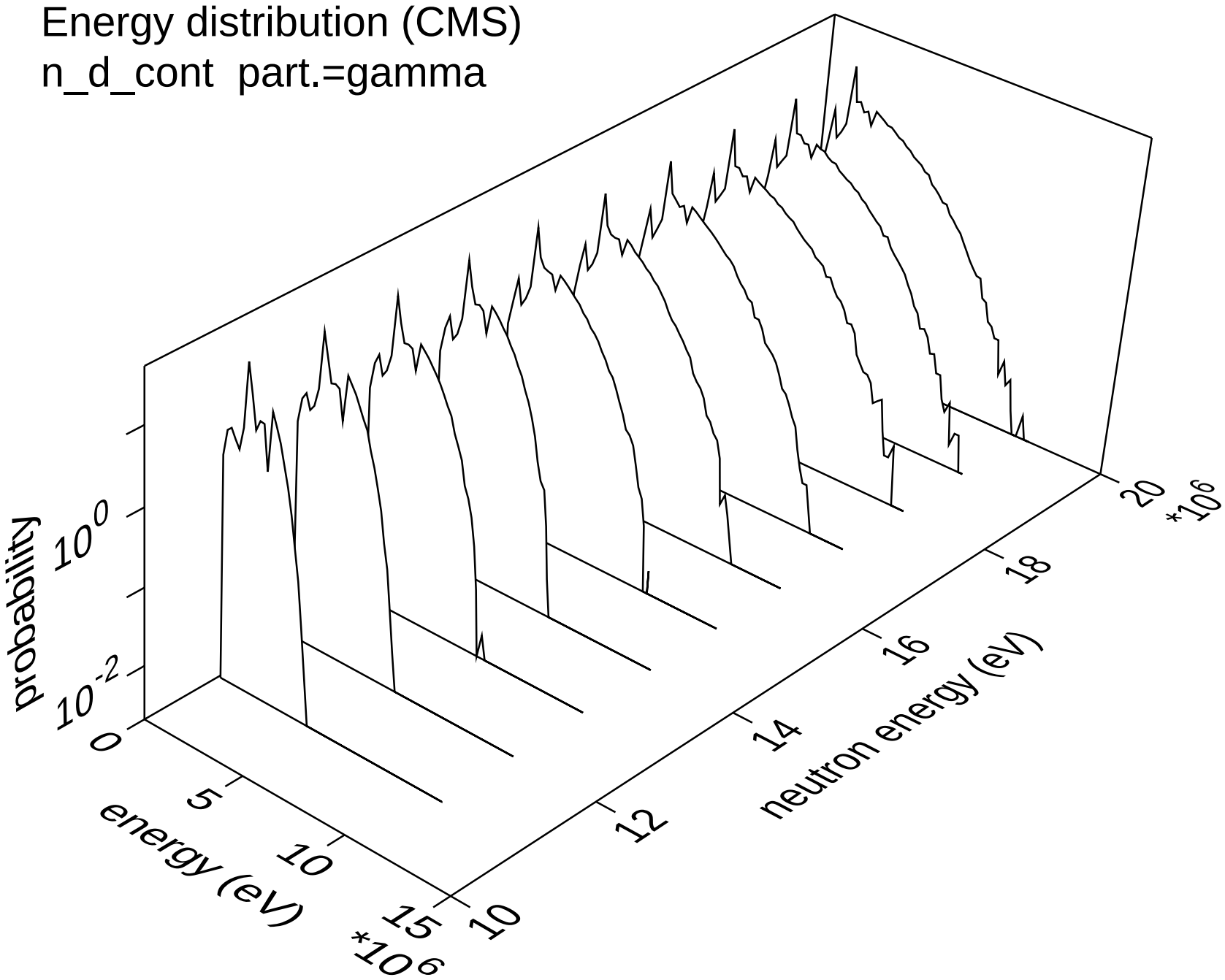

Energy distribution (CMS)
n_n_cont part.=neutron
probability
10^1
10^-1
0
5
10
15
20
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

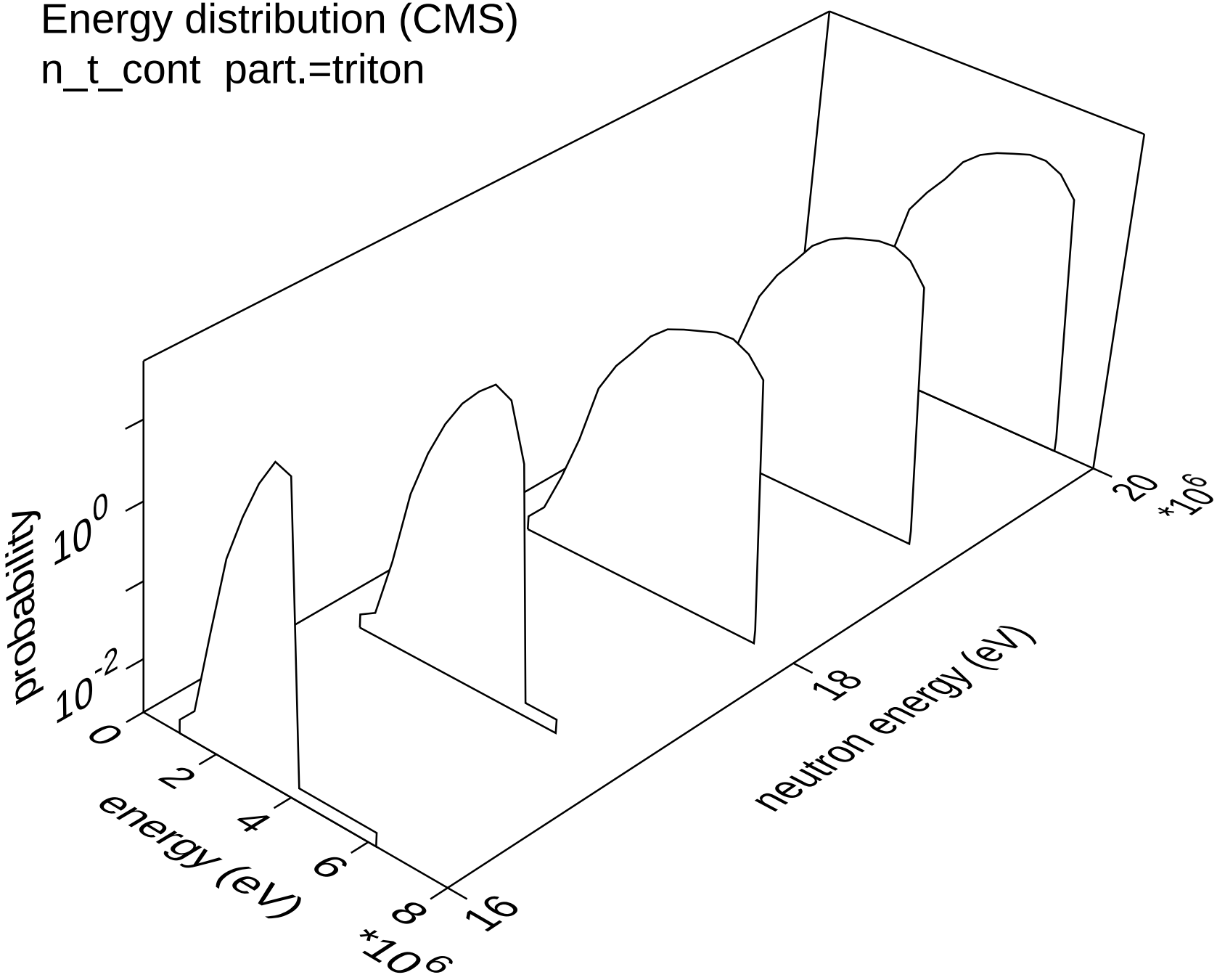

Energy distribution (CMS)
n_n_cont part.=gamma
probability
10^0
10^{-2}
0
5
10
15
20
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

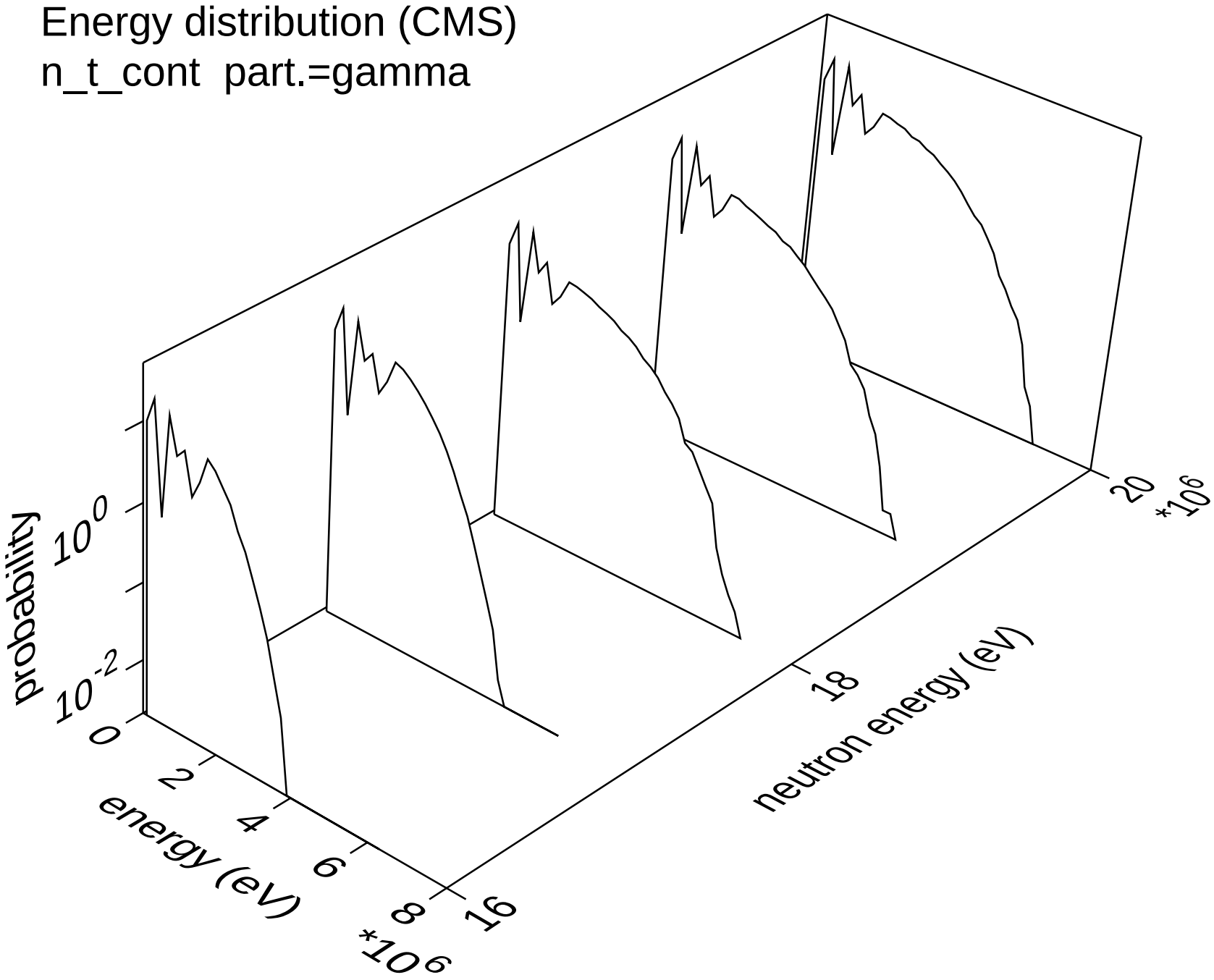

Energy distribution (CMS)
n_p_cont part.=proton
probability
10^{1}
10^{-1}
0
5
10
15
20
*10^6
energy (eV)
0
5
10
15
20
*10^6
neutron energy (eV)

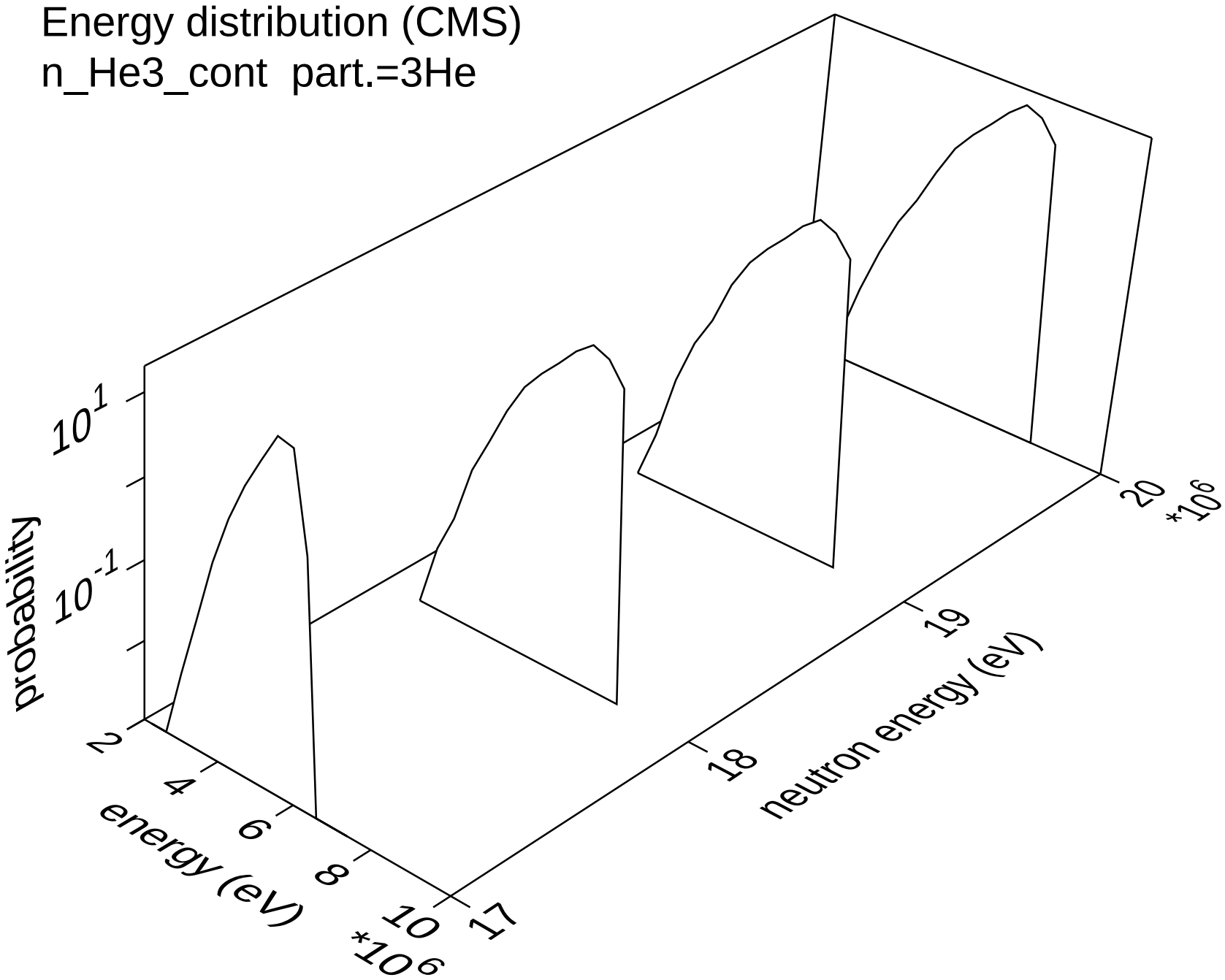

Energy distribution (CMS)
n_p_cont part.=gamma
probability
10^{2}
10^{0}
10^{-2}
0
5
10
15
20
*10^6
energy (eV)
0
5
10
15
20
*10^6
neutron energy (eV)

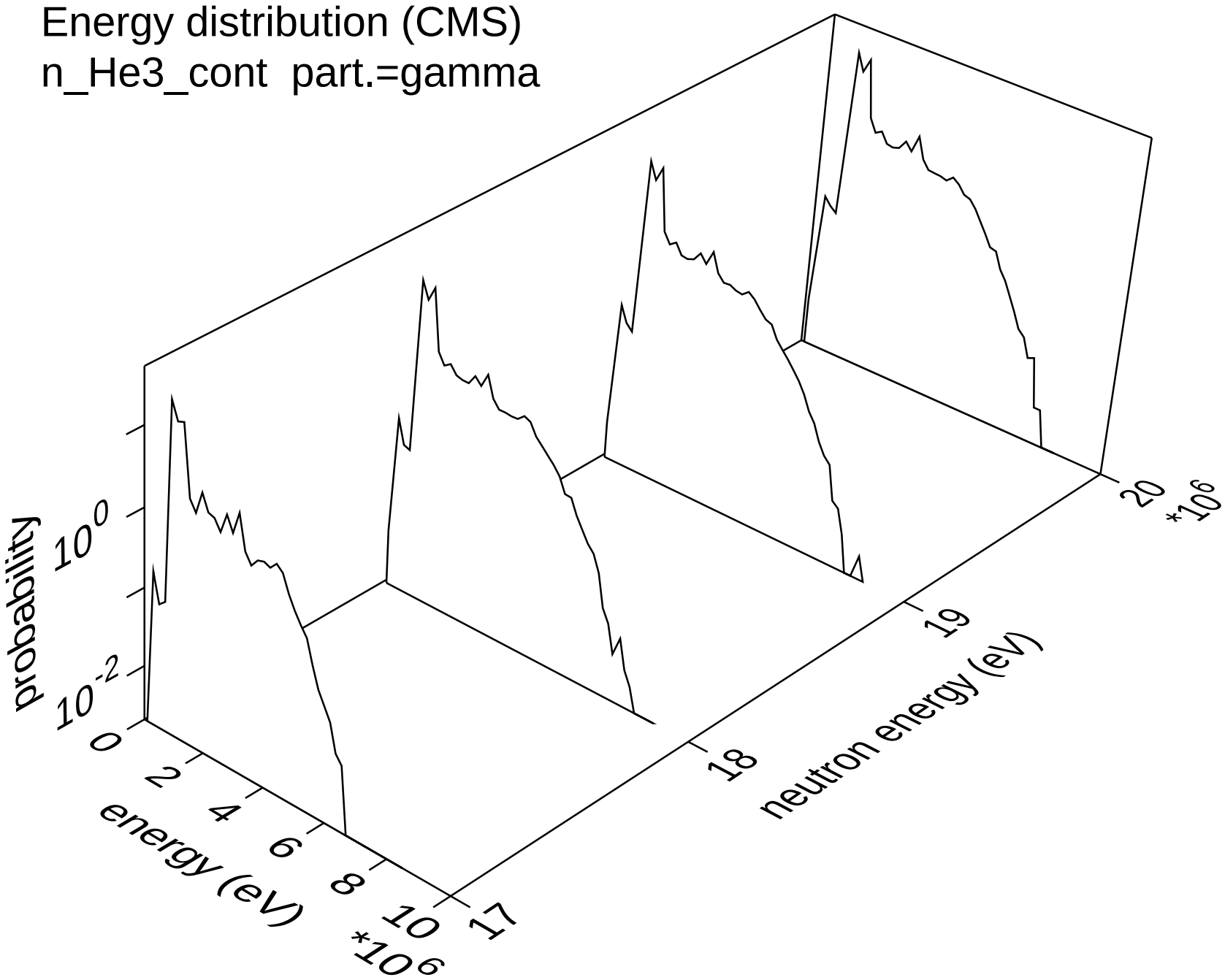

Energy distribution (CMS)
n_d_cont part.=deuteron
probability
10^{1}
10^{-1}
0
5
10
15
*10^6
energy (eV)
10
12
14
16
18
20
*10^6
neutron energy (eV)

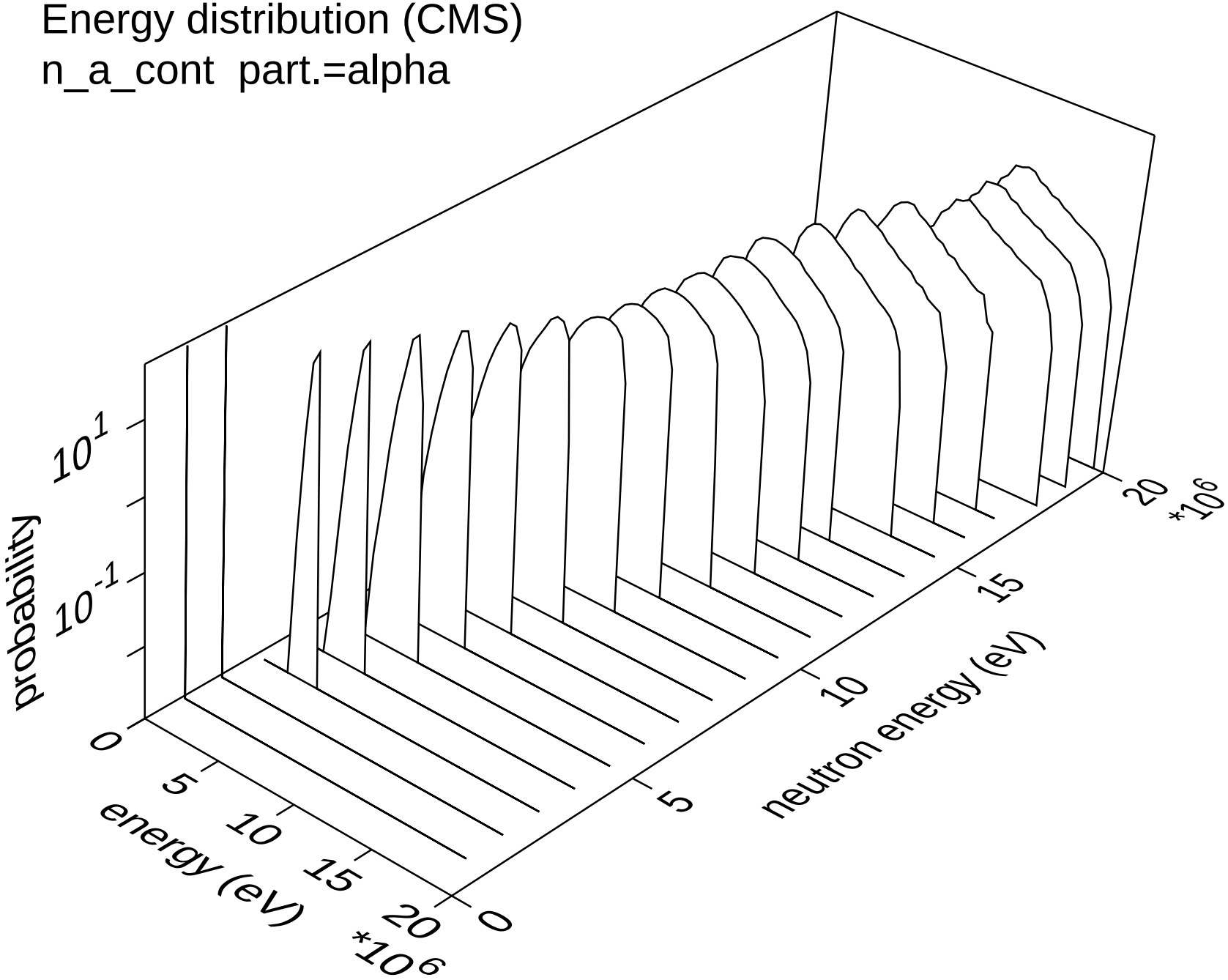

Energy distribution (CMS)
n_d_cont part.=gamma
probability
10^{0}
10^{-2}
0
5
10
15
*10^6
energy (eV)
10
12
14
16
18
20
*10^6
neutron energy (eV)

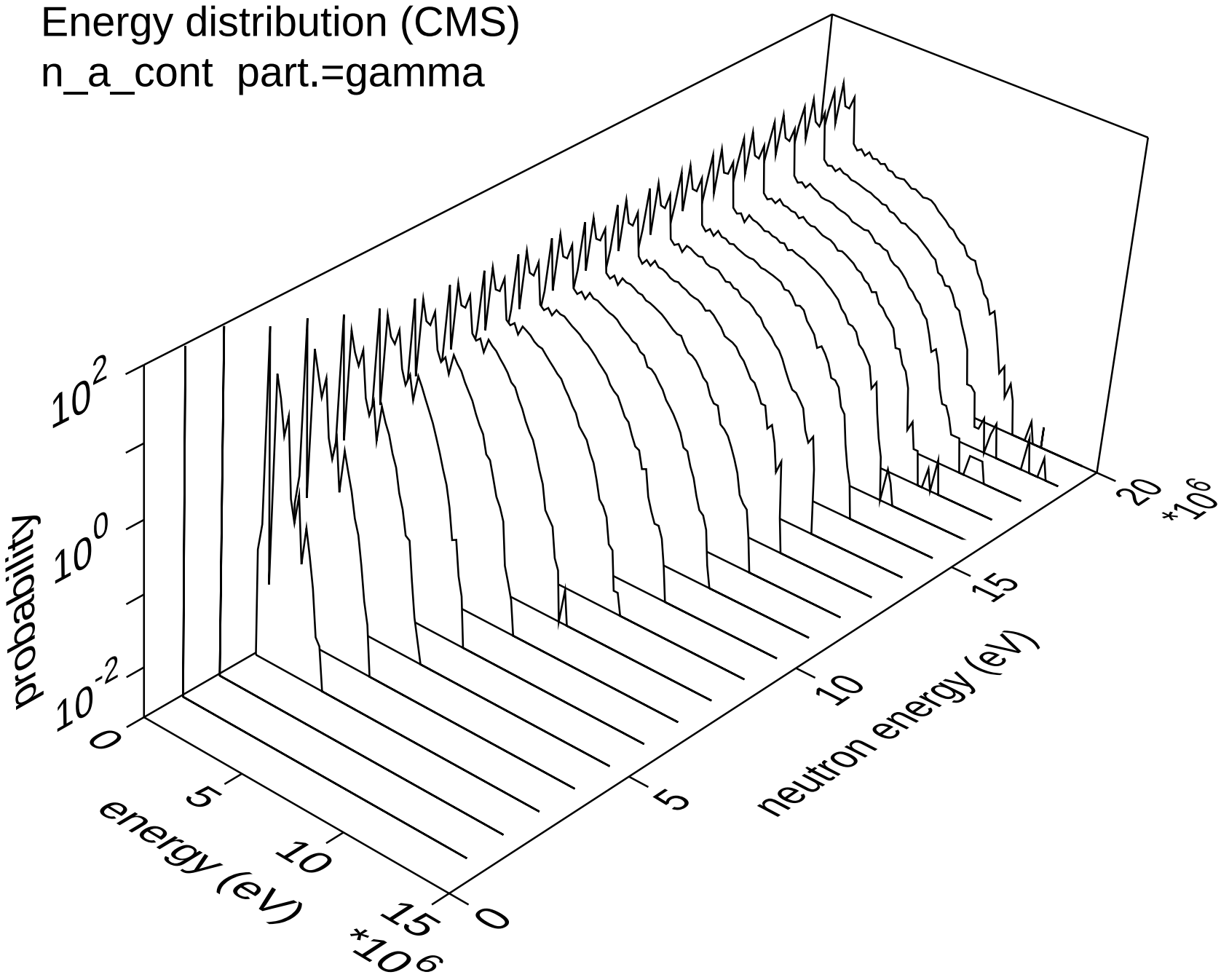

Energy distribution (CMS)
n_t_cont part.=triton
probability
10^0
10^{-2}
0
2
4
6
8
*10 6
energy (eV)
16
18
20
*10⁶
neutron energy (eV)

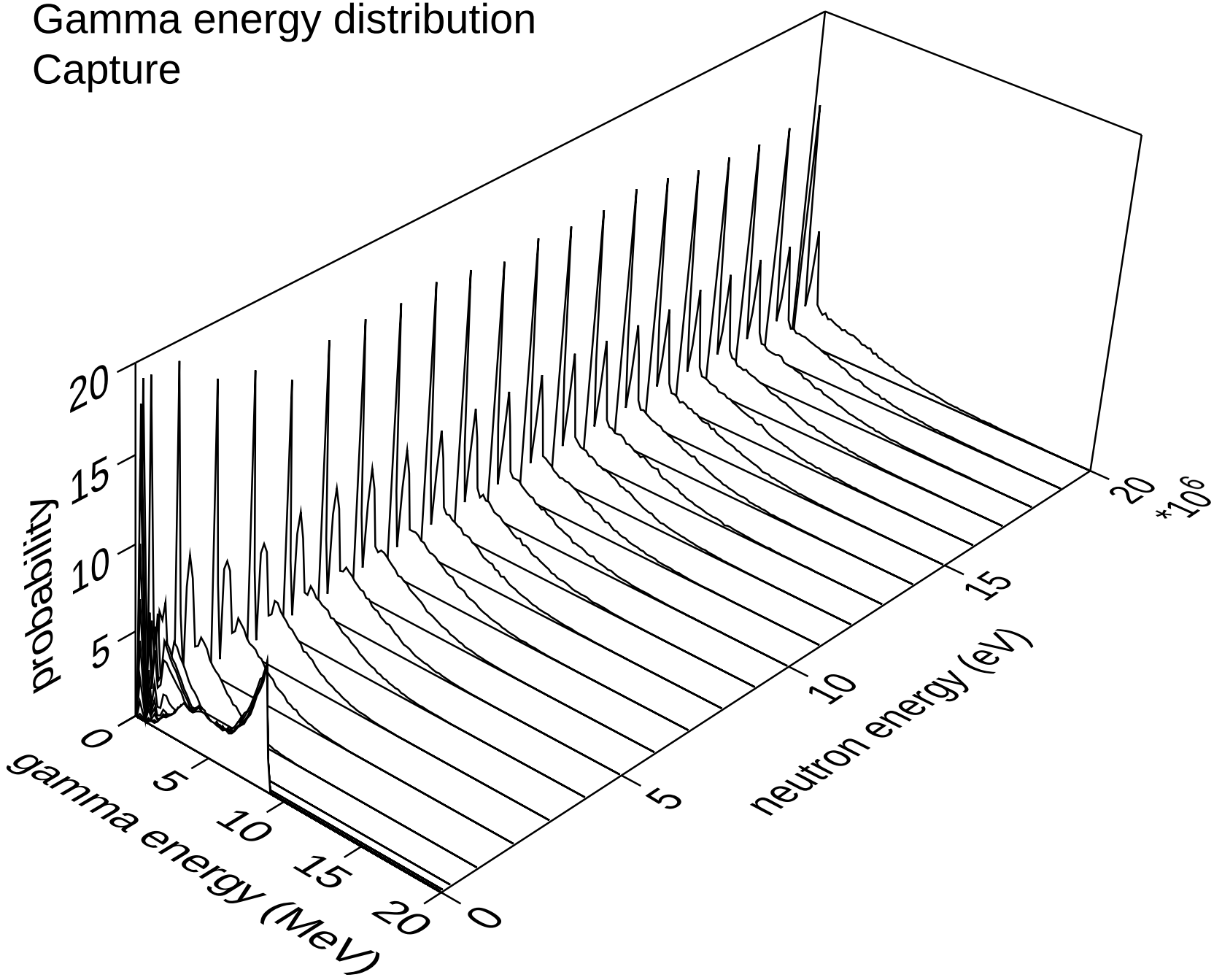

Energy distribution (CMS)
n_t_cont part.=gamma
probability
10^{0}
10^{-2}
0
2
4
6
8
*10 6
energy (eV)
16
18
20
*10⁶
neutron energy (eV)

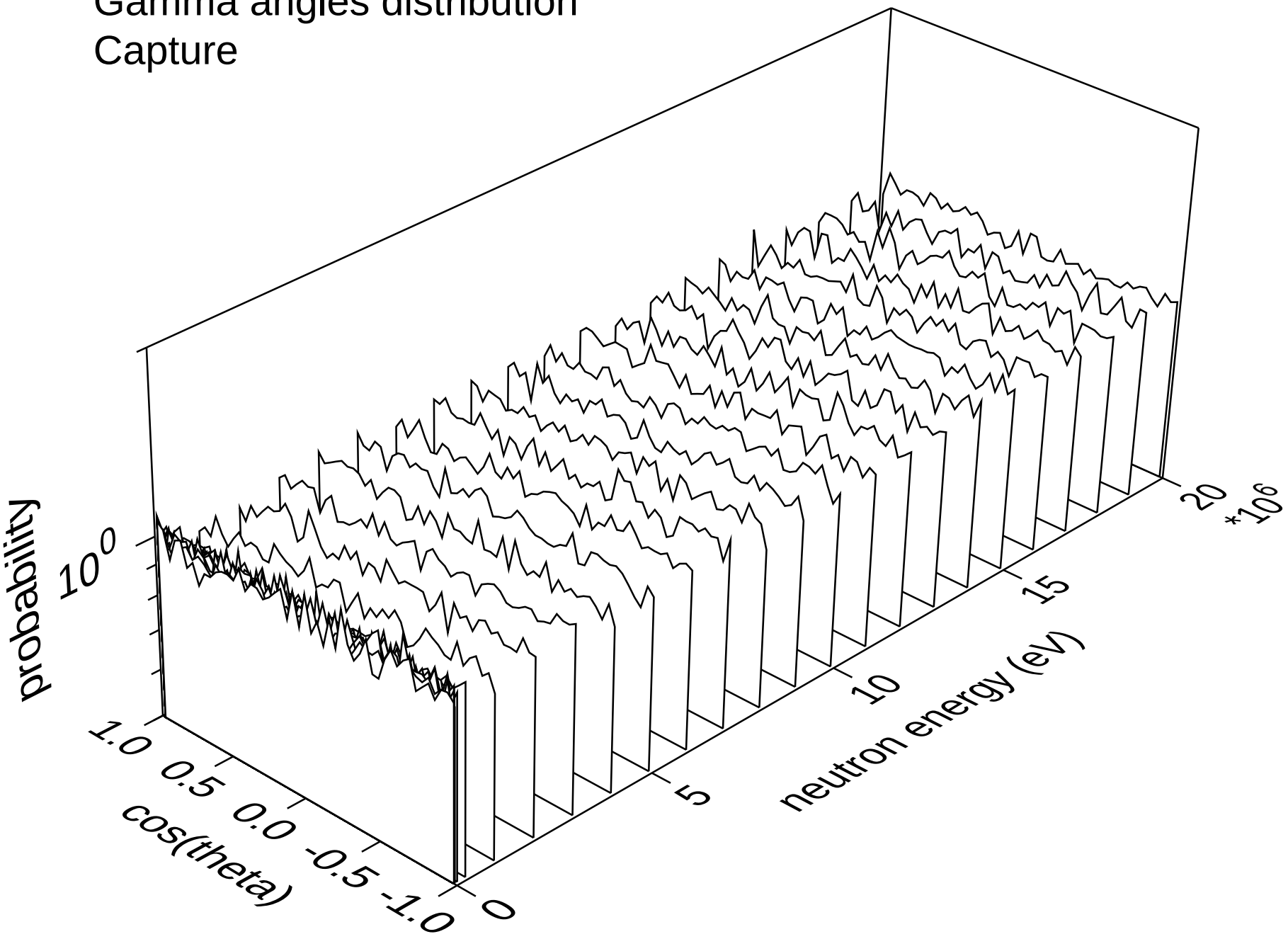

Energy distribution (CMS)
n_He3_cont part.=3He
probability
10^{1}
10^{-1}
2
4
6
8
10
*10^6
energy (eV)
17
18
19
20
*10^6
neutron energy (eV)


Energy distribution (CMS)
n_He3_cont part.=gamma
probability
10^0
10^-2
0
2
4
6
8
10
*10^6
energy (eV)
17
18
19
20
*10^6
neutron energy (eV)

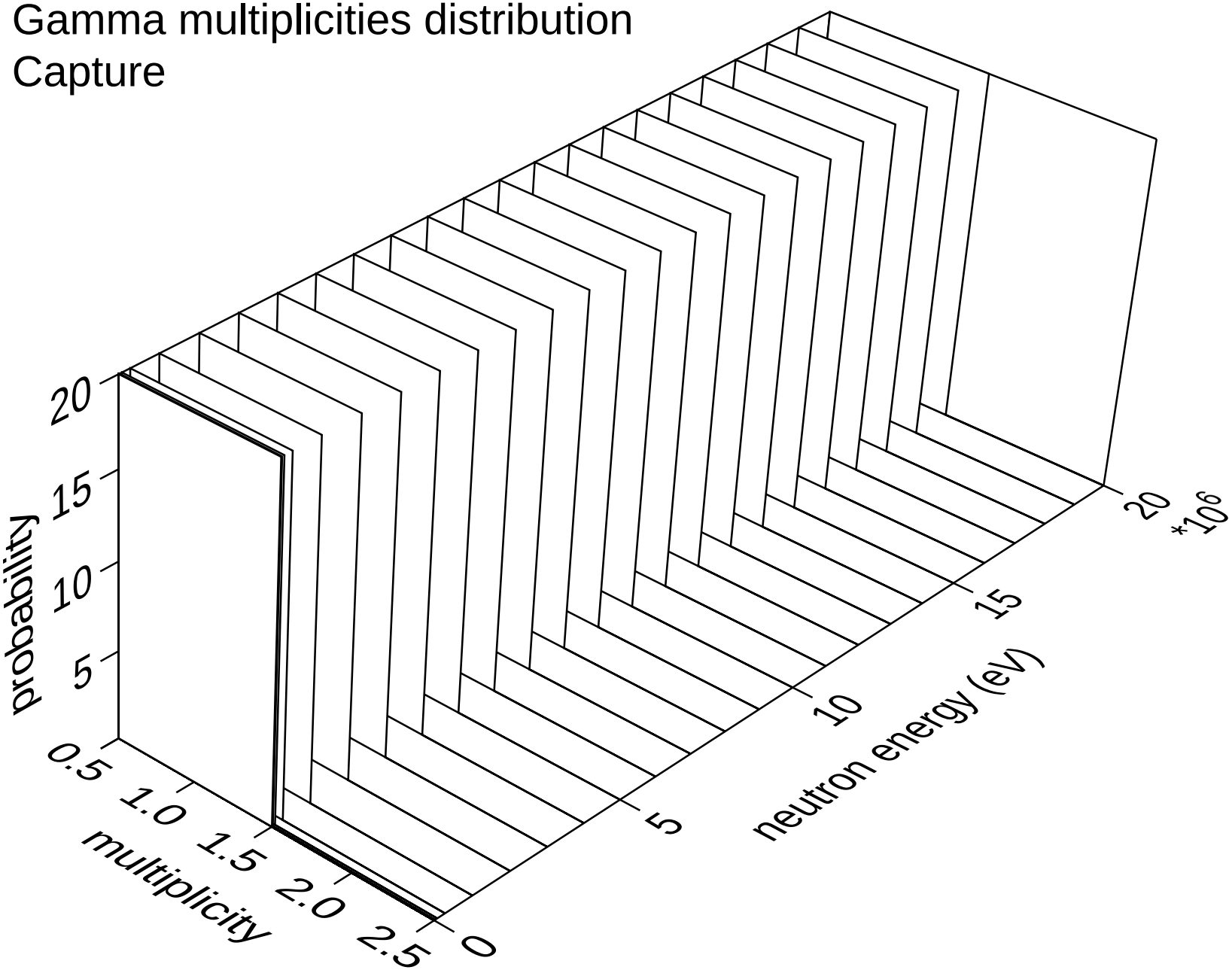

Energy distribution (CMS)
n_a_cont part.=alpha
probability
10^{1}
10^{-1}
0
5
10
15
20
*10^6
energy (eV)
0
5
10
15
20
*10^6
neutron energy (eV)

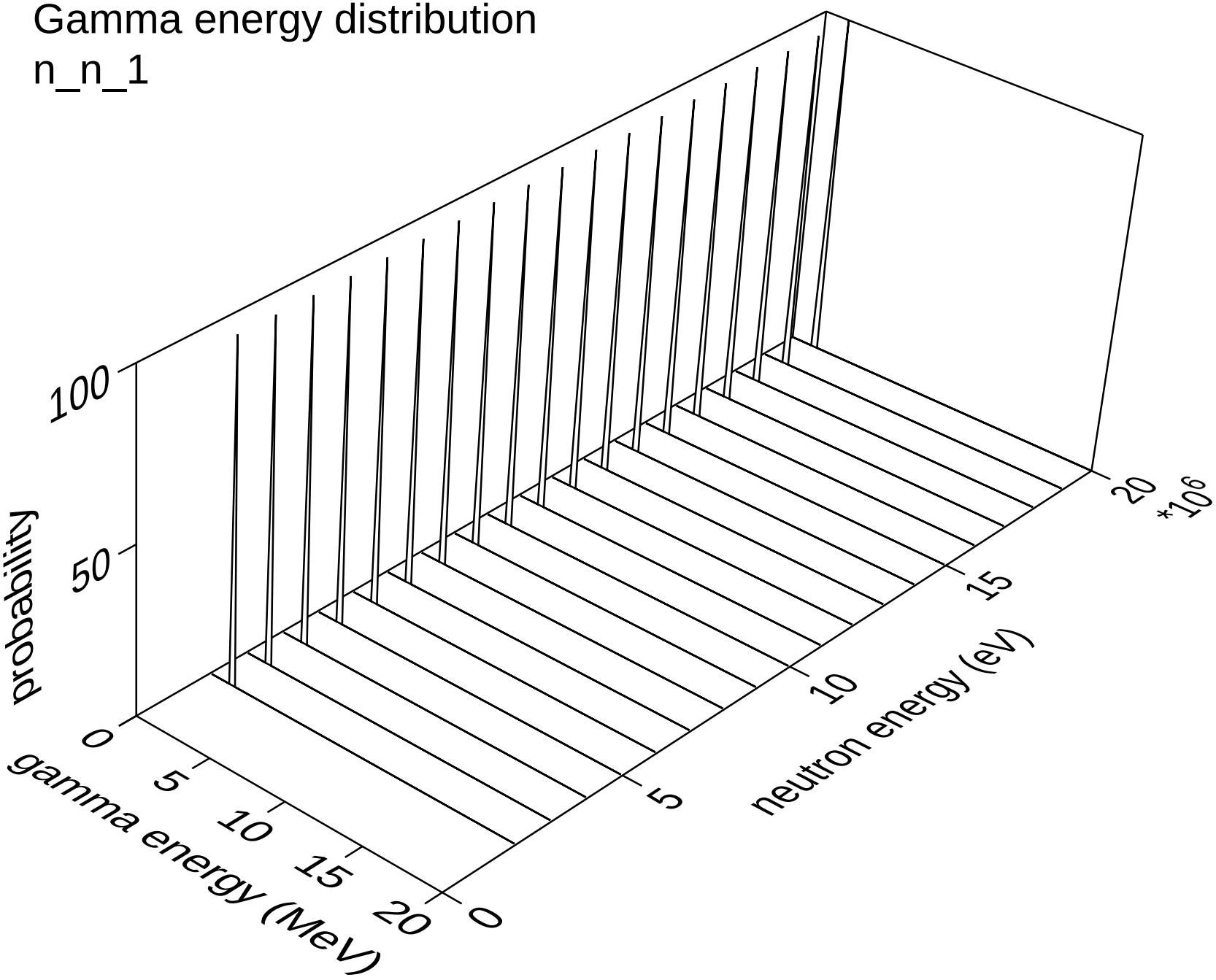

Energy distribution (CMS)
n_a_cont part.=gamma
probability
10^{2}
10^{0}
10^{-2}
0
5
10
15
*10^6
energy (eV)
0
5
10
15
20
*10^6
neutron energy (eV)

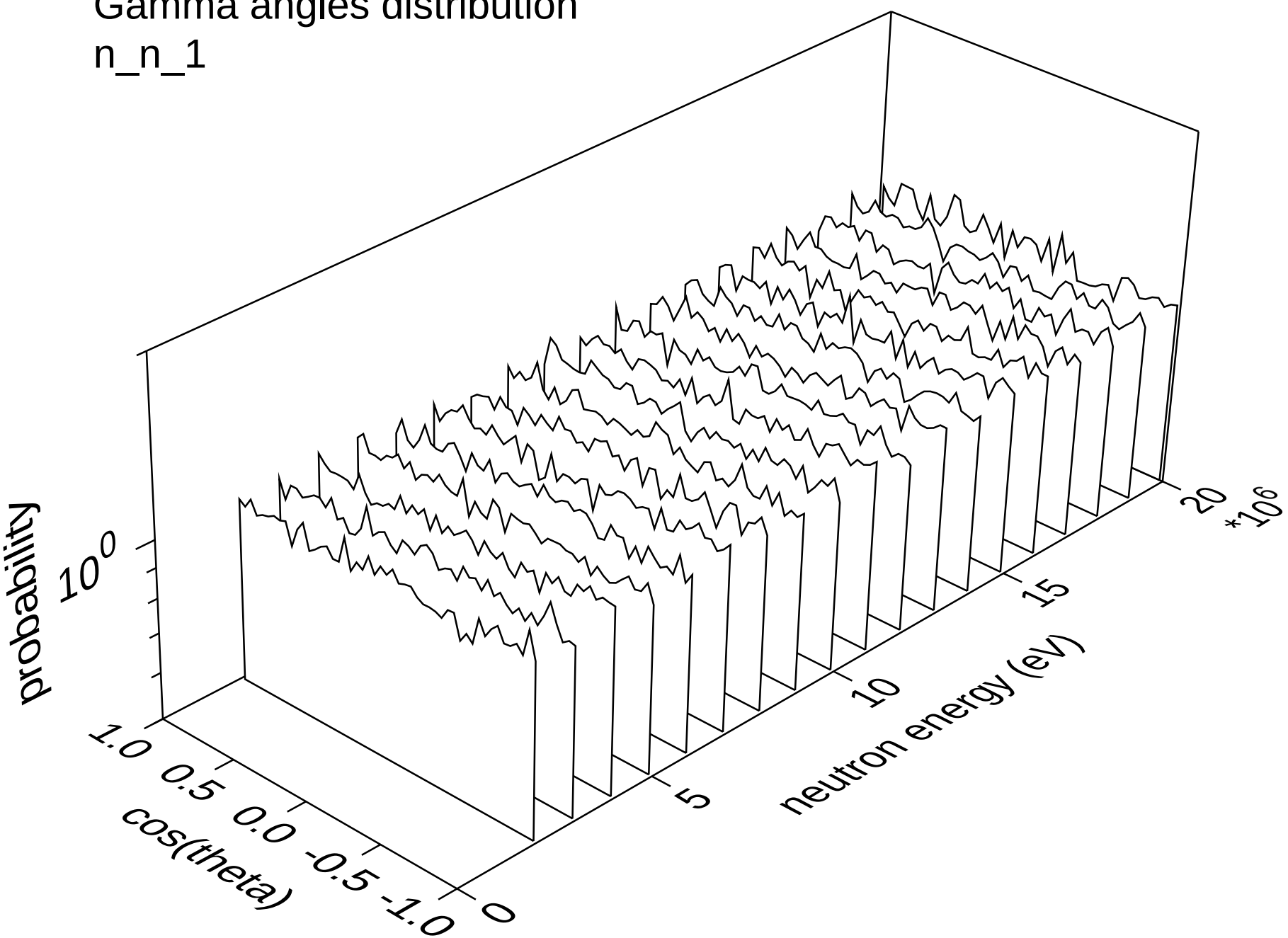

Gamma energy distribution
Capture
probability
0
5
10
15
20
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
*10^6


Gamma angles distribution
Capture
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
neutron energy (eV)
*10^6

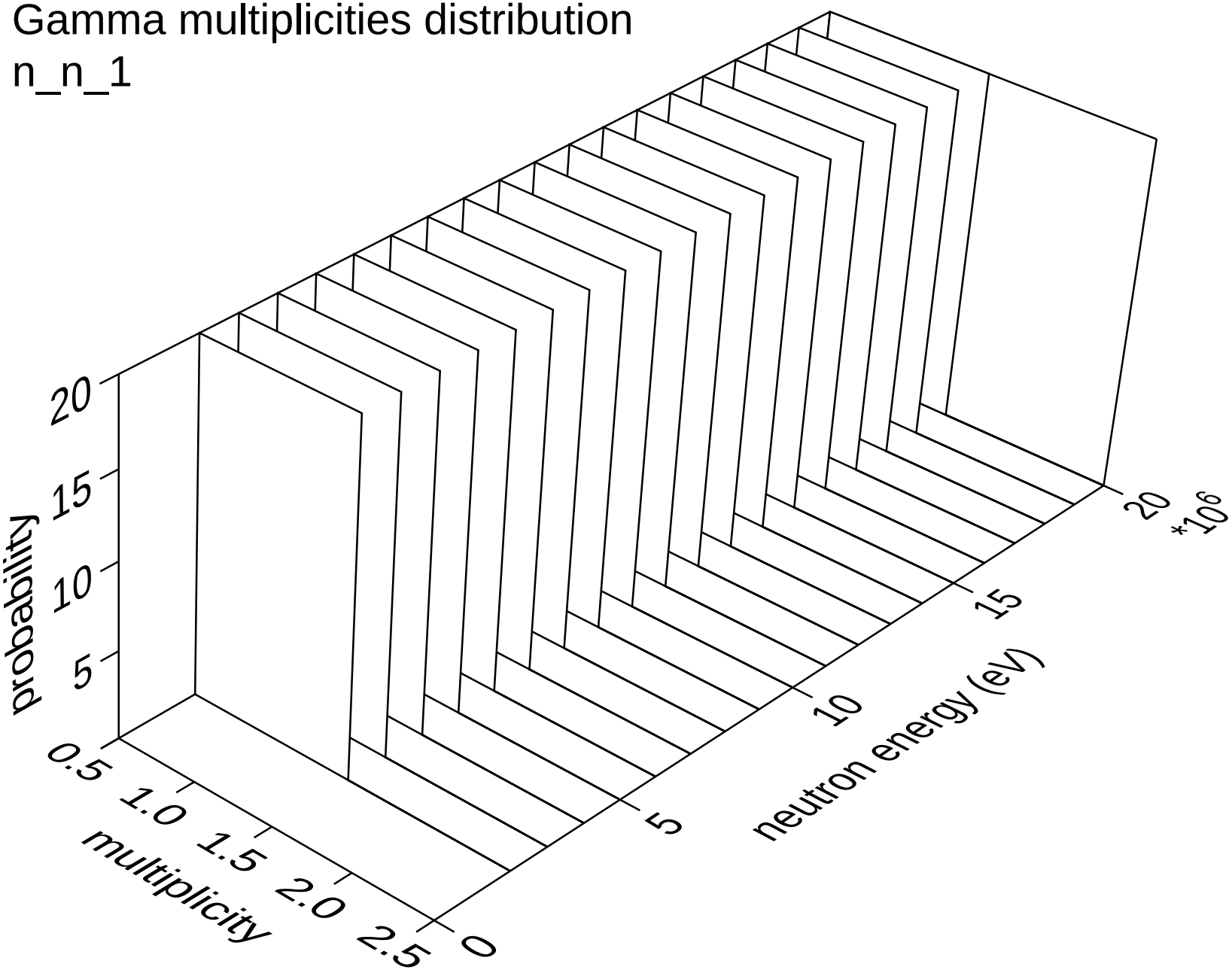
Gamma multiplicities distribution
Capture

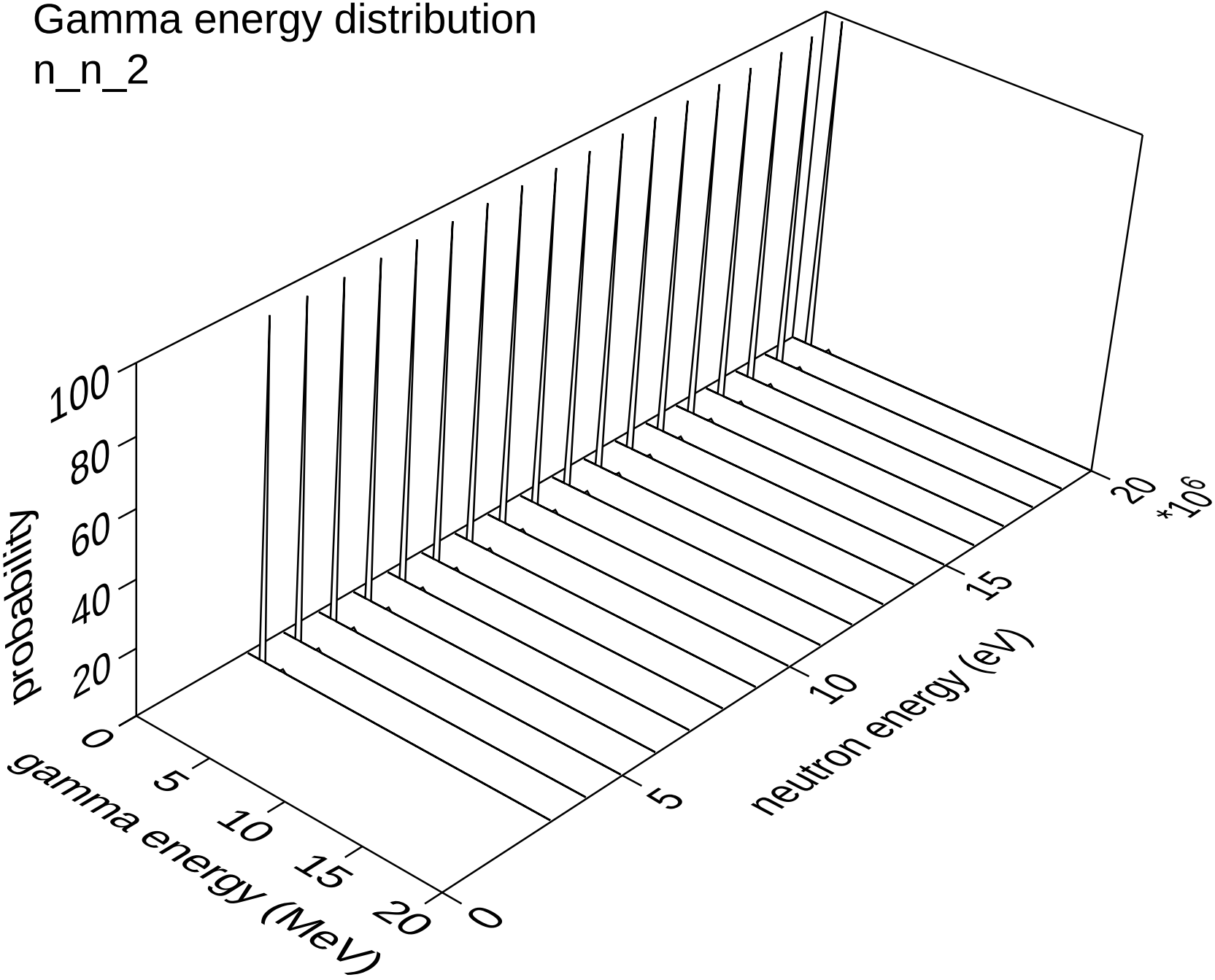


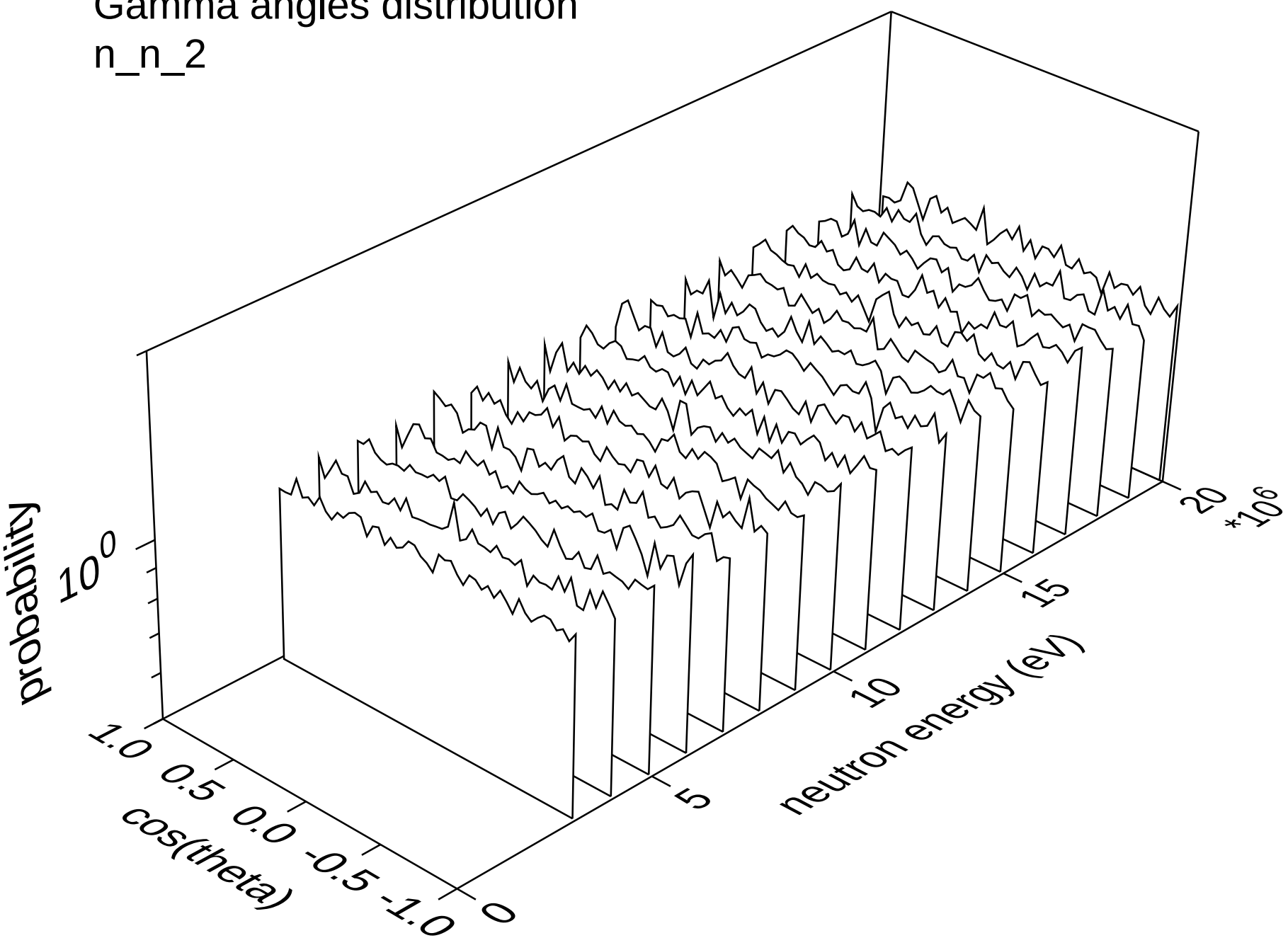

Gamma energy distribution
n_n_1
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6

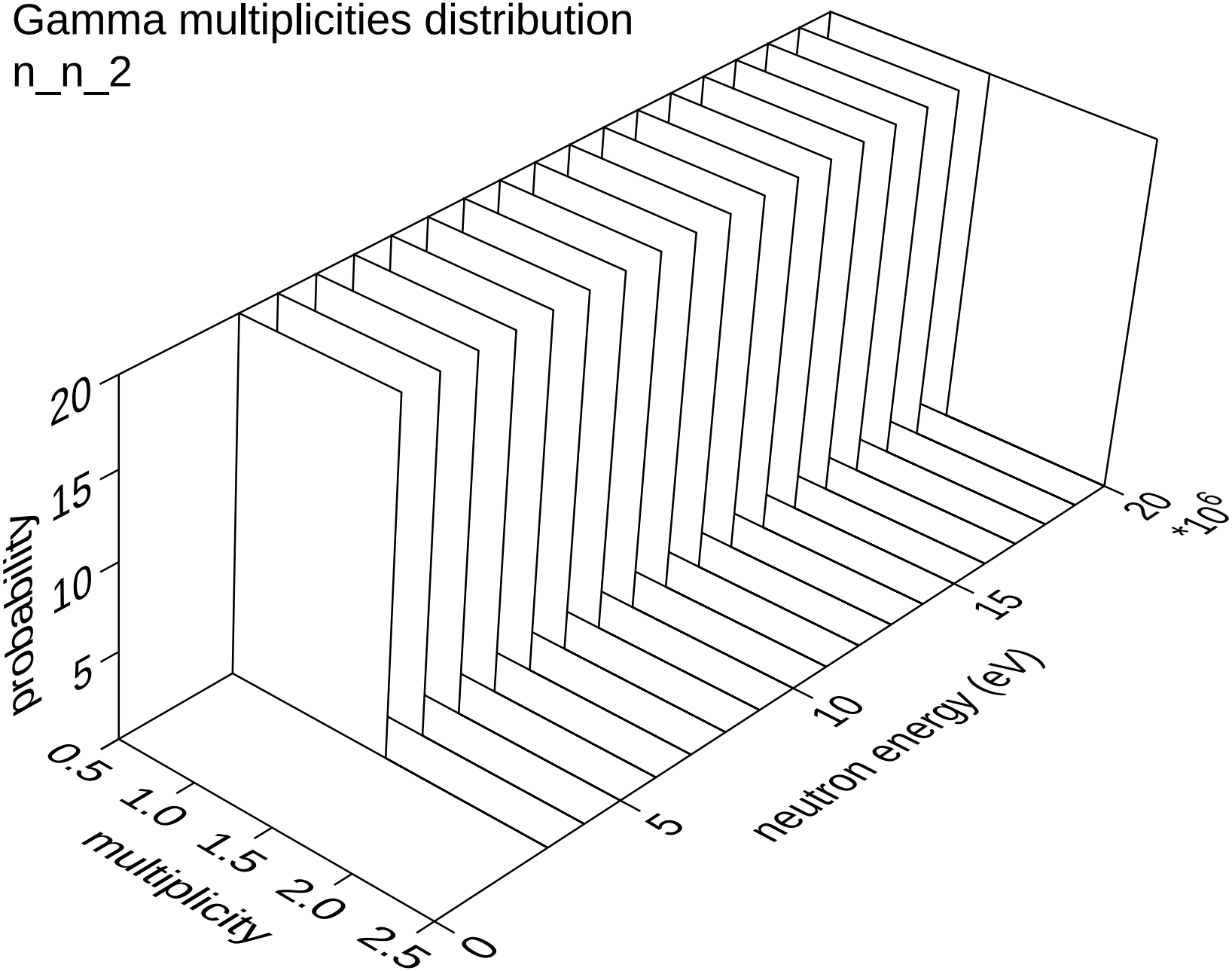

Gamma angles distribution
n_n_1
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

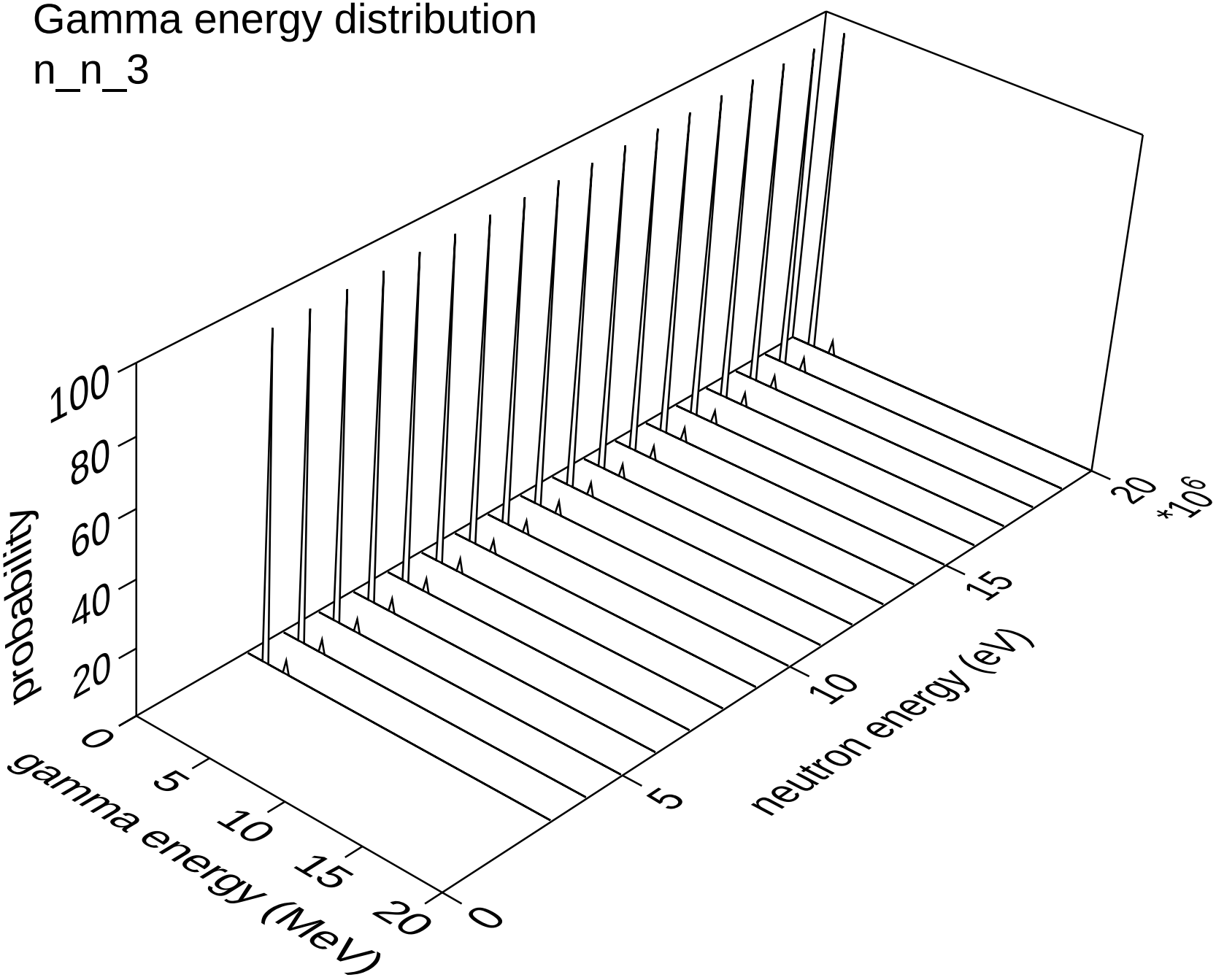
Gamma multiplicities distribution
n_n_1

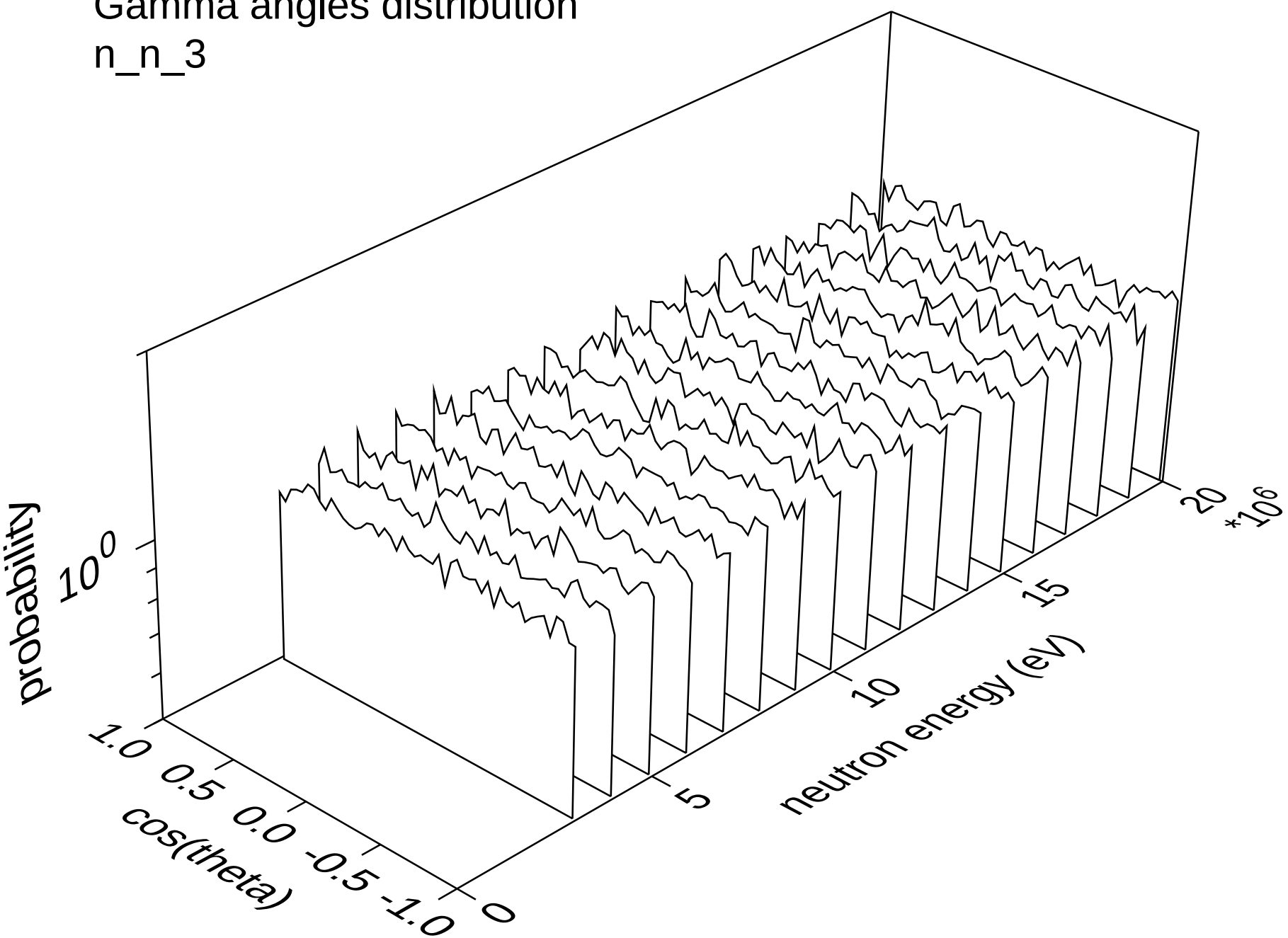



Gamma energy distribution
n_n_2
probability
100
80
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6

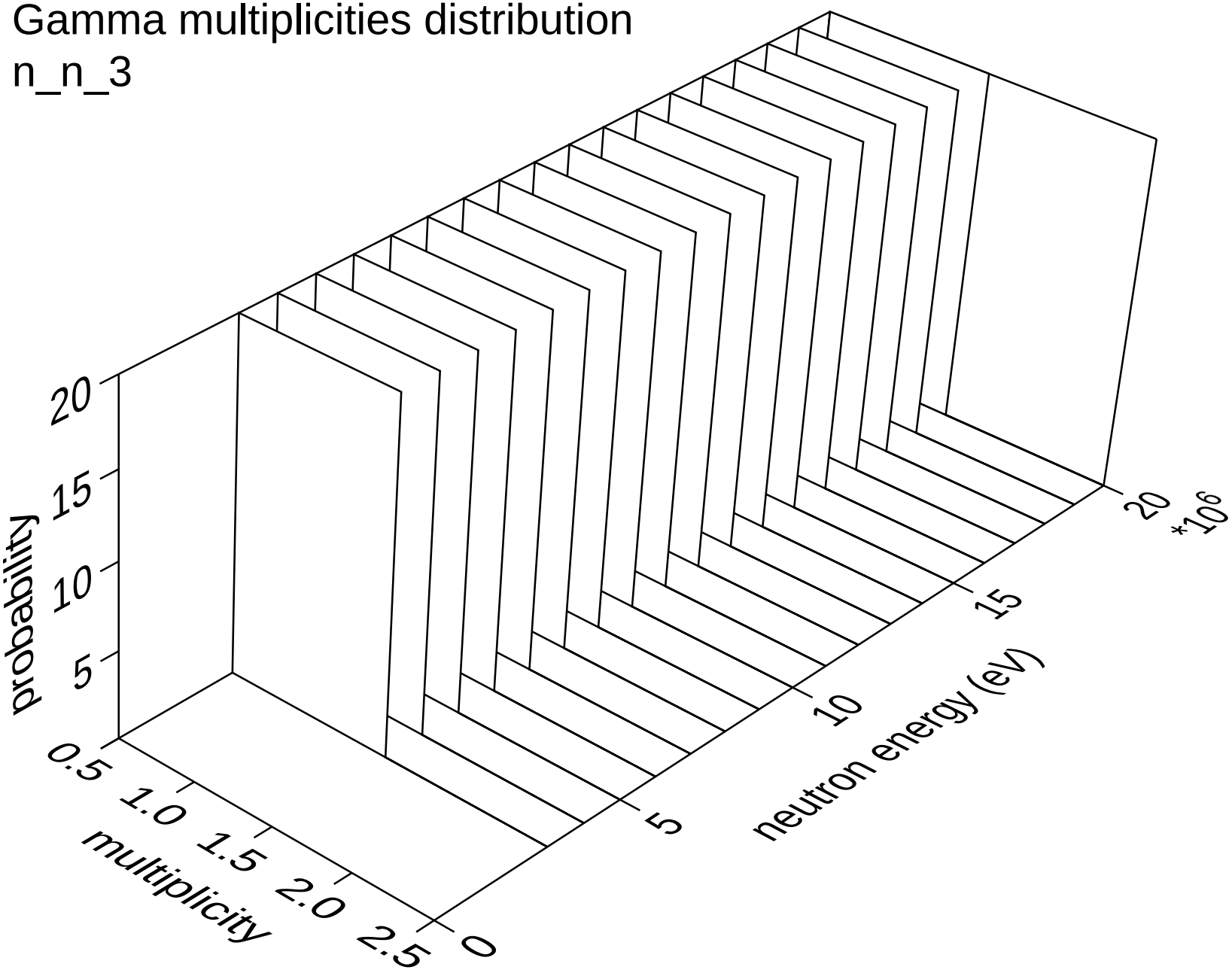

Gamma angles distribution
n_n_2
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

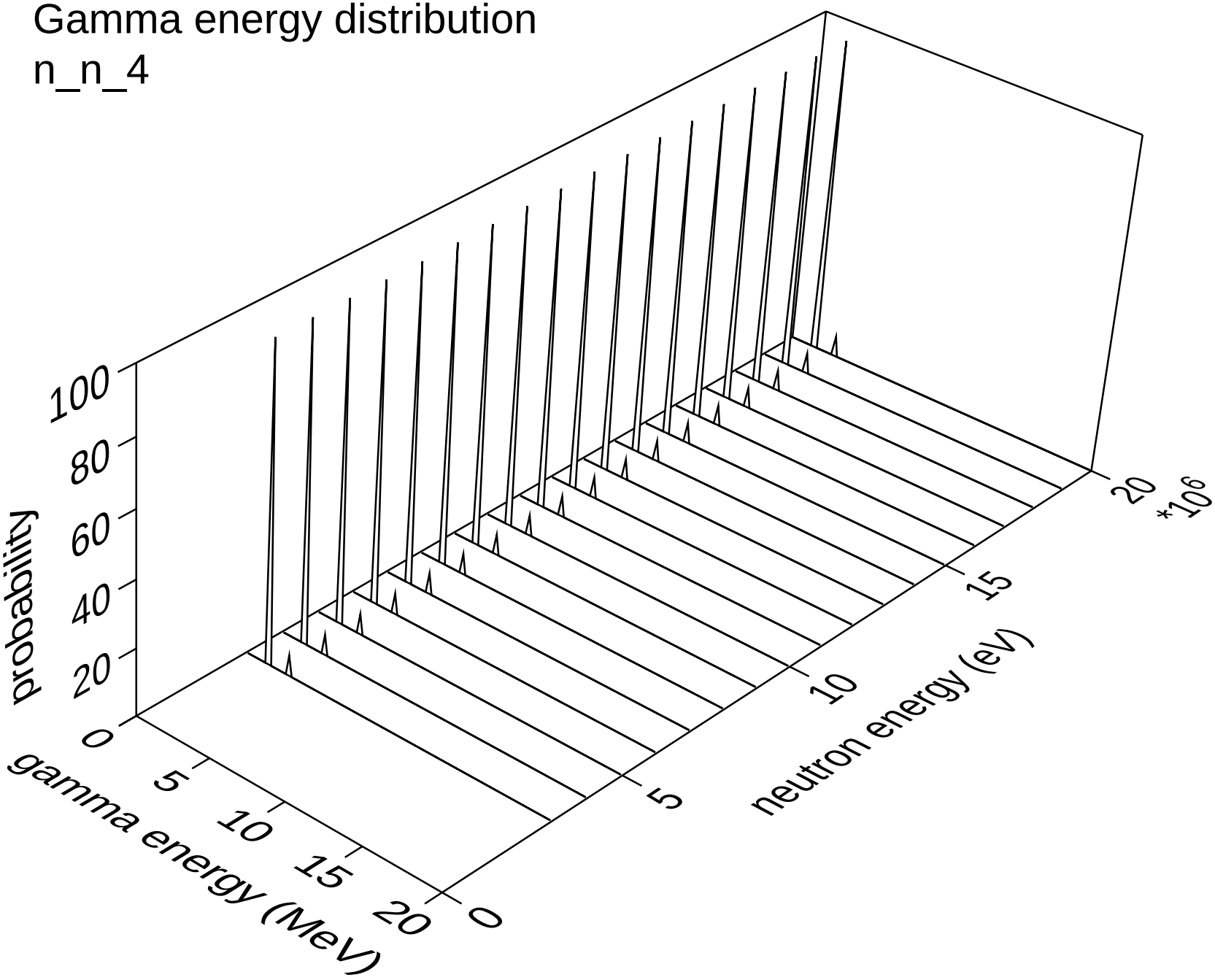

Gamma multiplicities distribution
n_n_2
probability
20
15
10
5
0.5
1.0
1.5
2.0
2.5
multiplicity
0
5
10
15
20
*10^6
neutron energy (eV)

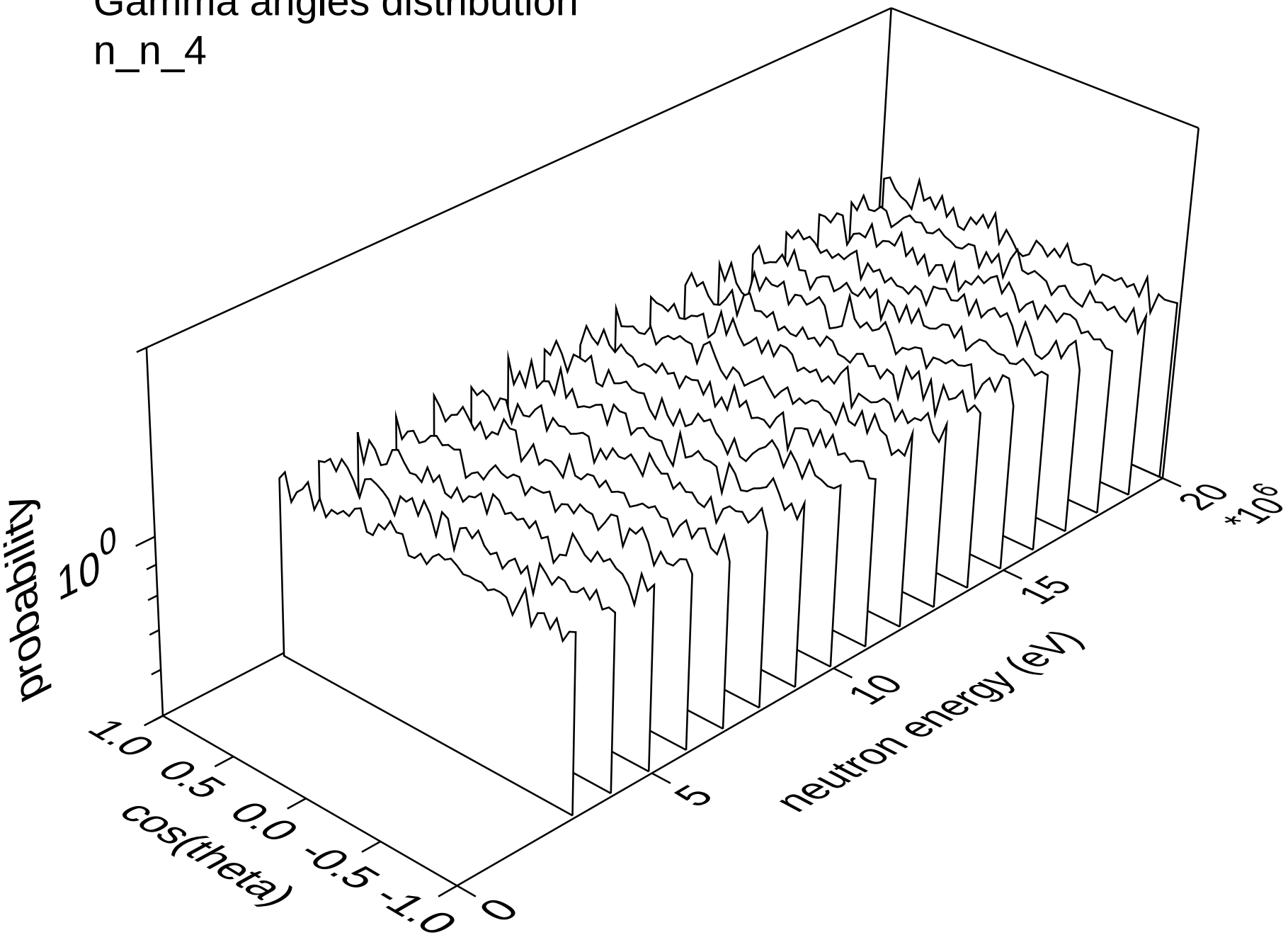

Gamma energy distribution
n_n_3
probability
100
80
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
5
10
15
20
*10^6

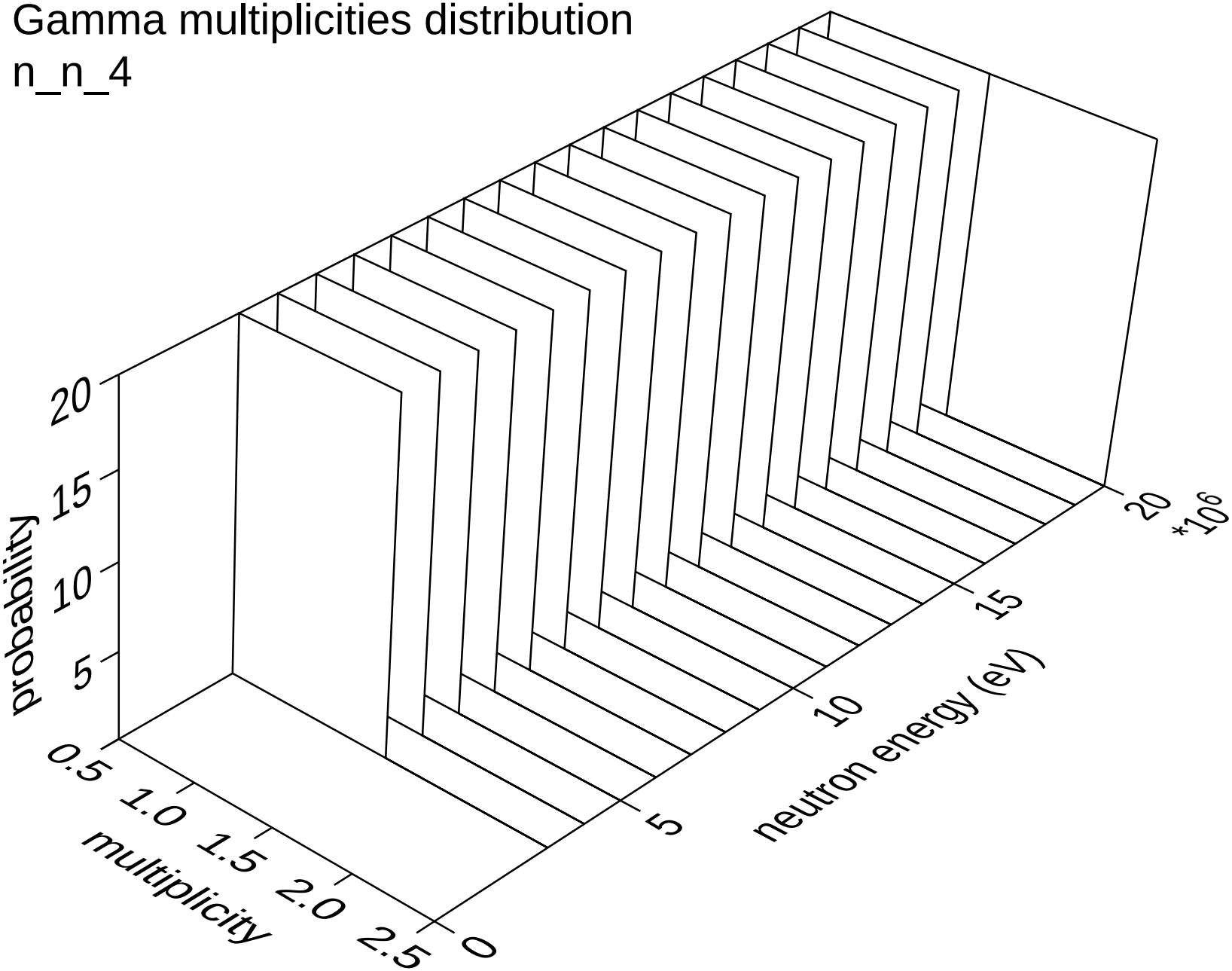

Gamma angles distribution
n_n_3
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

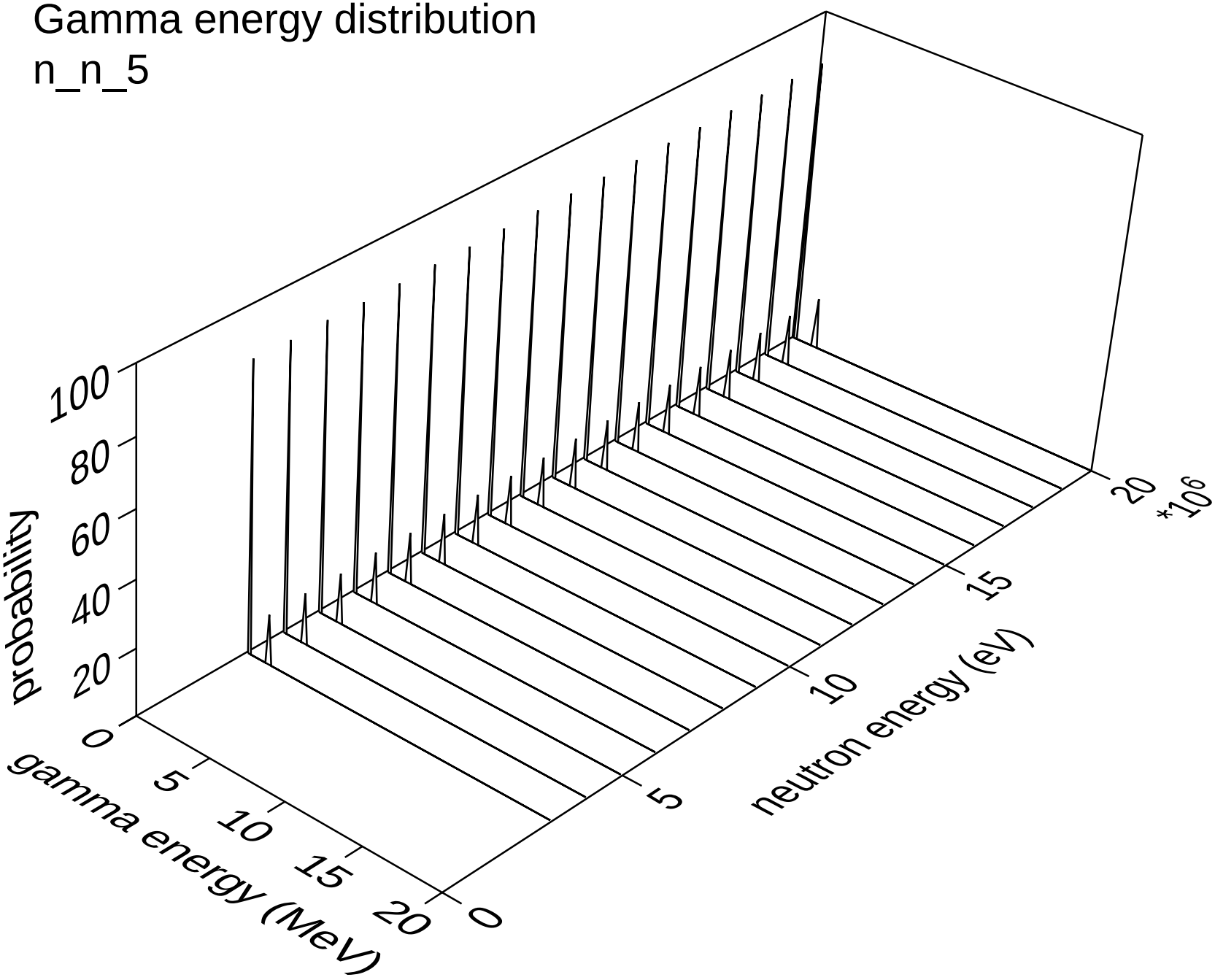
Gamma multiplicities distribution
n_n_3

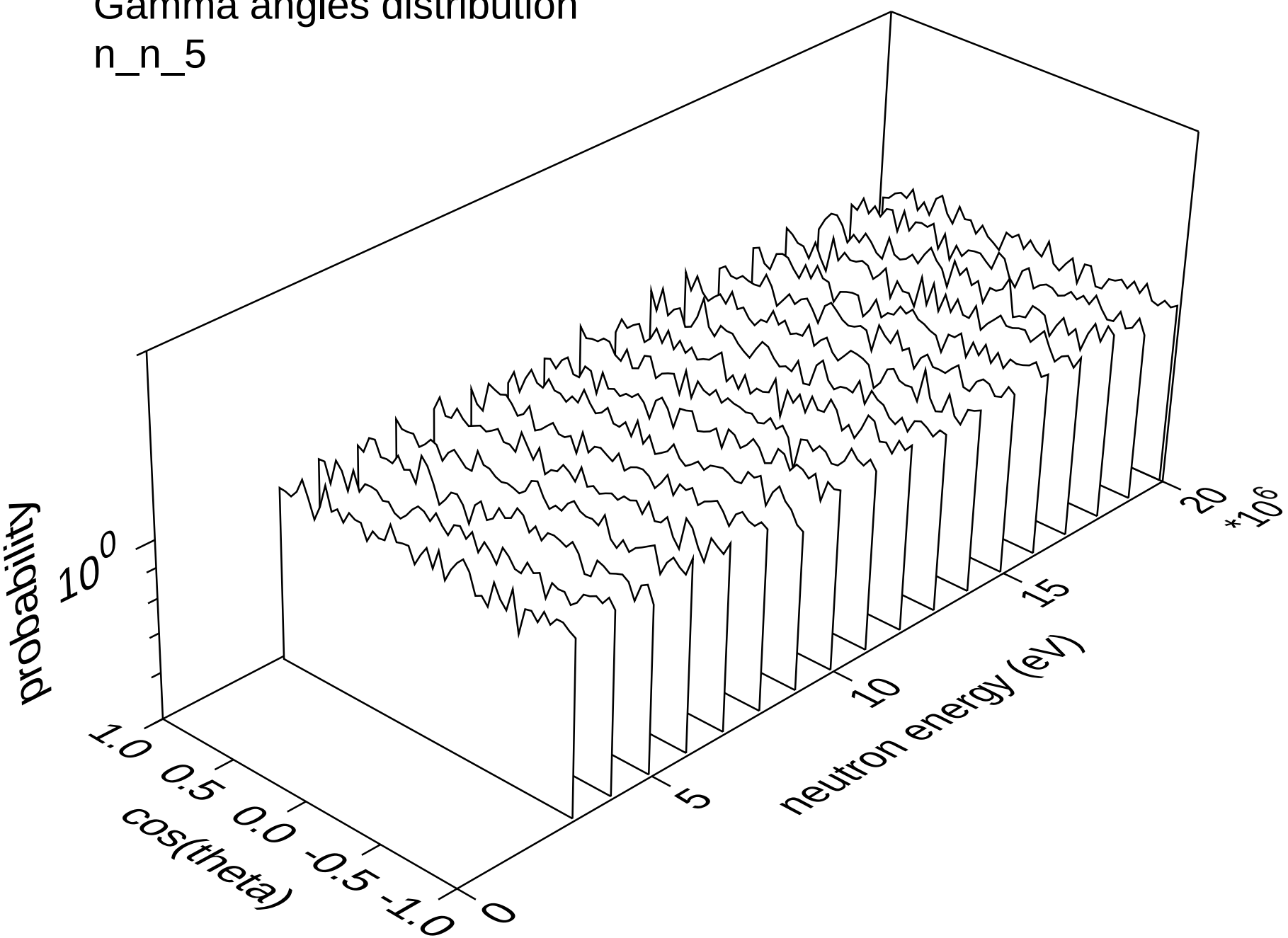



Gamma energy distribution
n_n_4
probability
100
80
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6

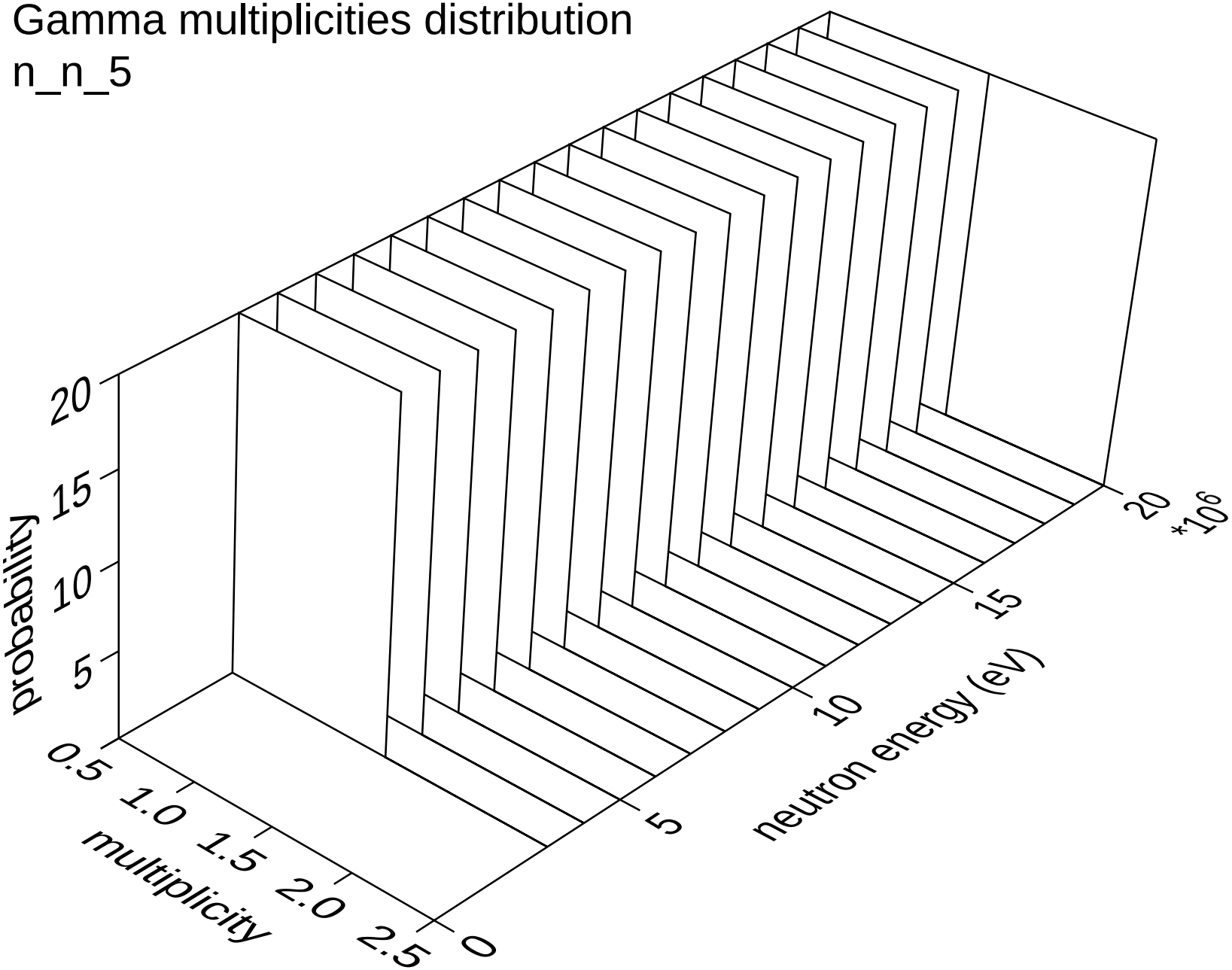

Gamma angles distribution
n_n_4
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
neutron energy (eV)
*10^6

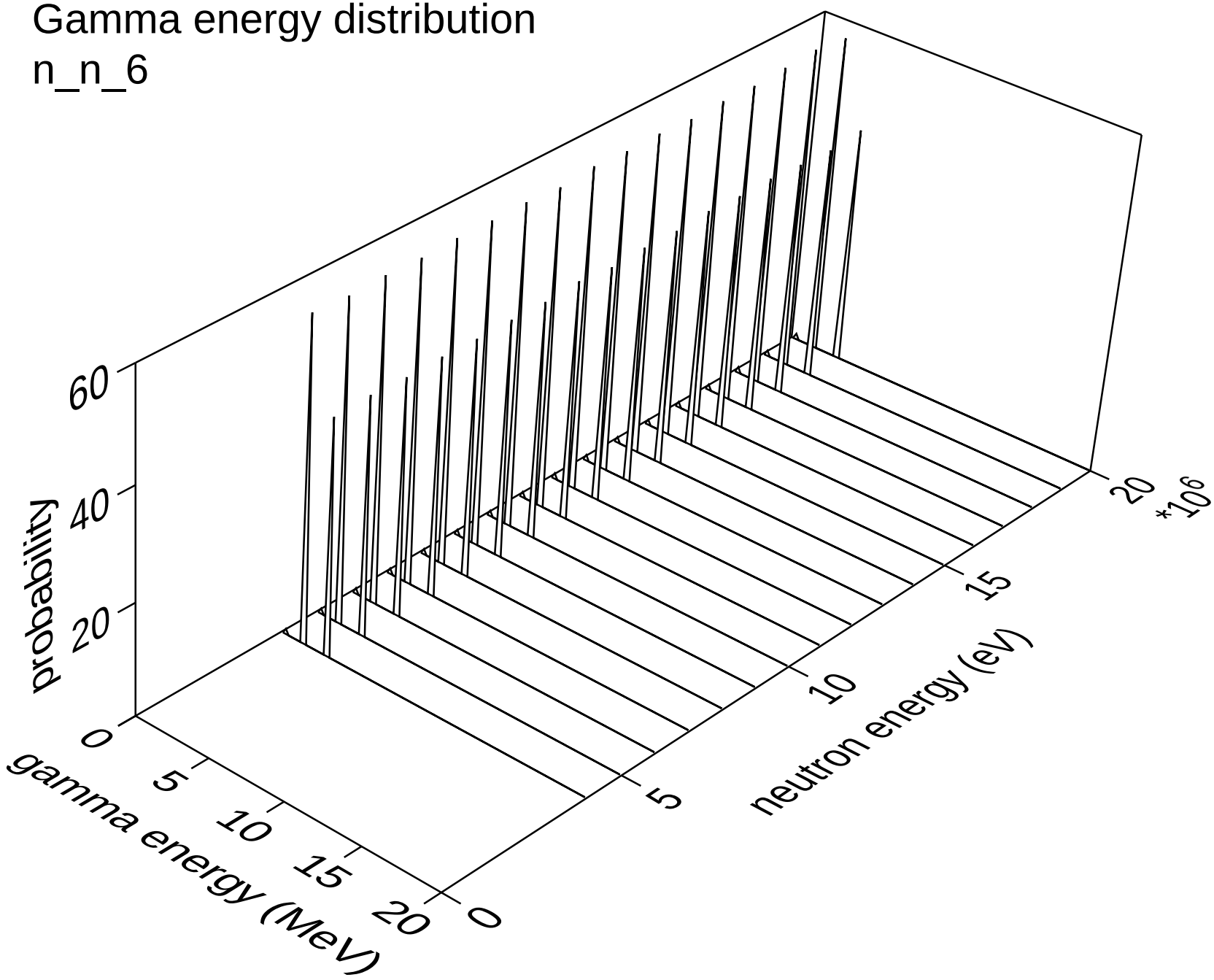

Gamma multiplicities distribution
n_n_4
probability
20
15
10
5
0.5
1.0
1.5
2.0
2.5
multiplicity
0
5
10
15
20
*10^6
neutron energy (eV)

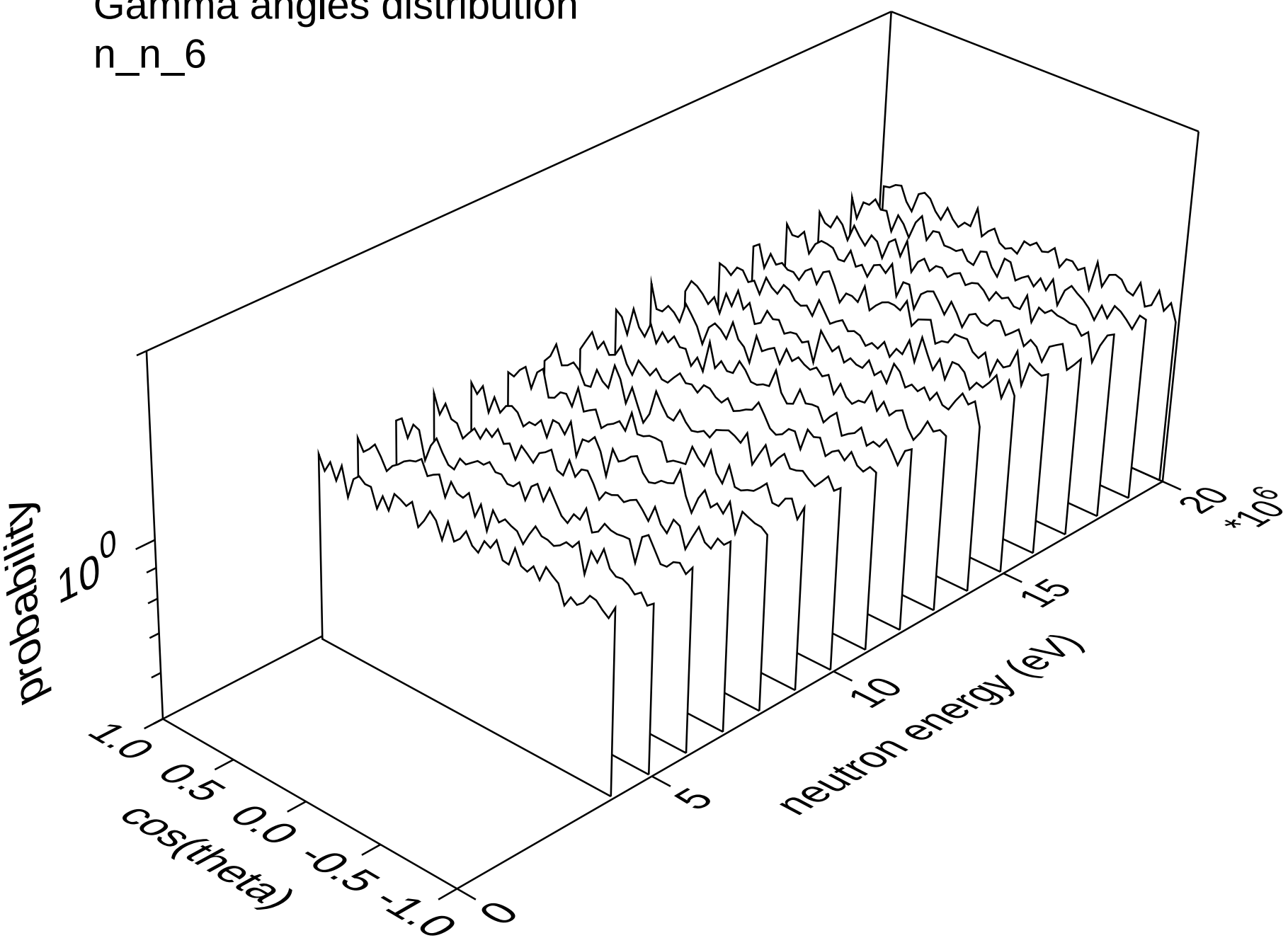

Gamma energy distribution
n_n_5
probability
100
80
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_n_5
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

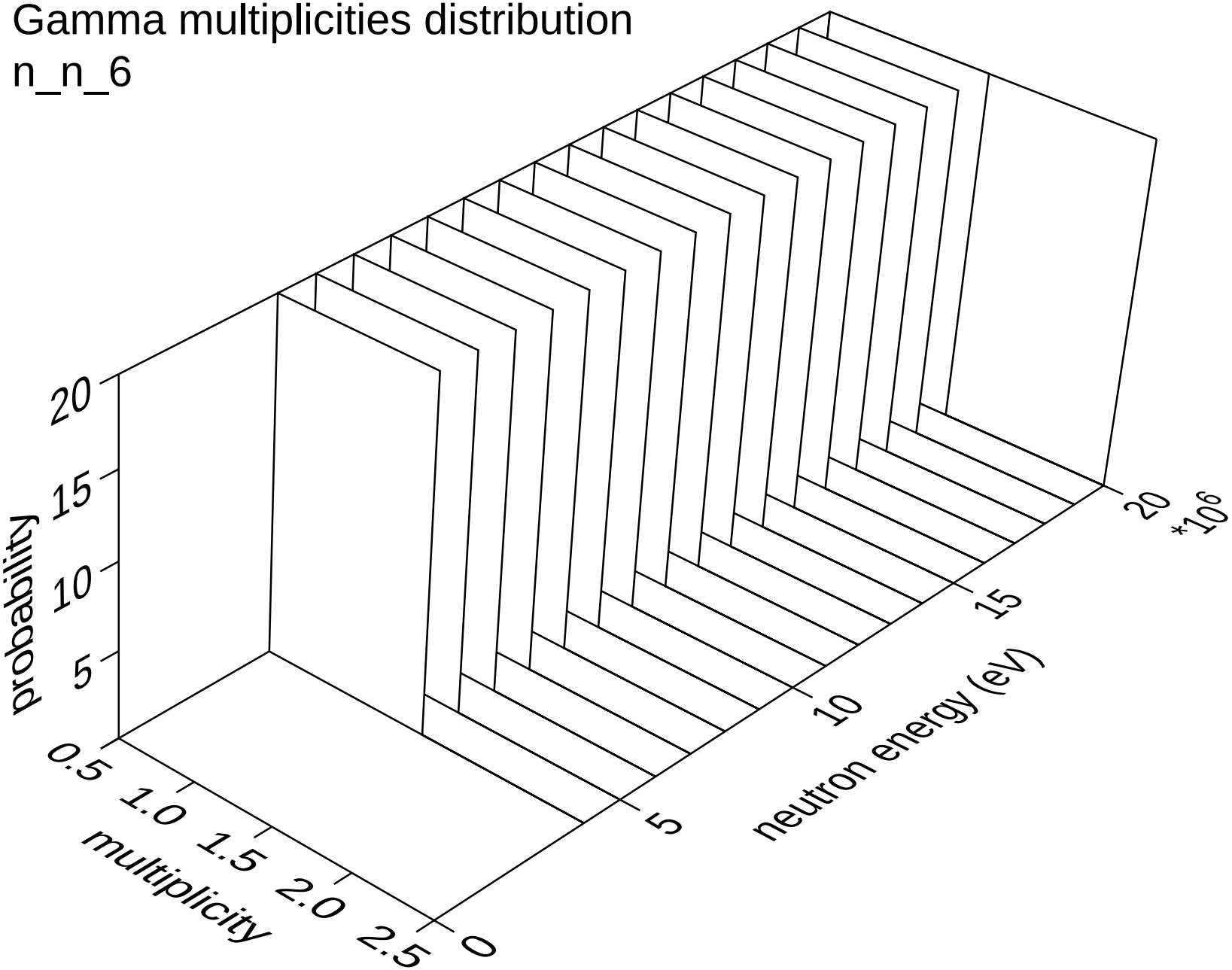
Gamma multiplicities distribution
n_n_5

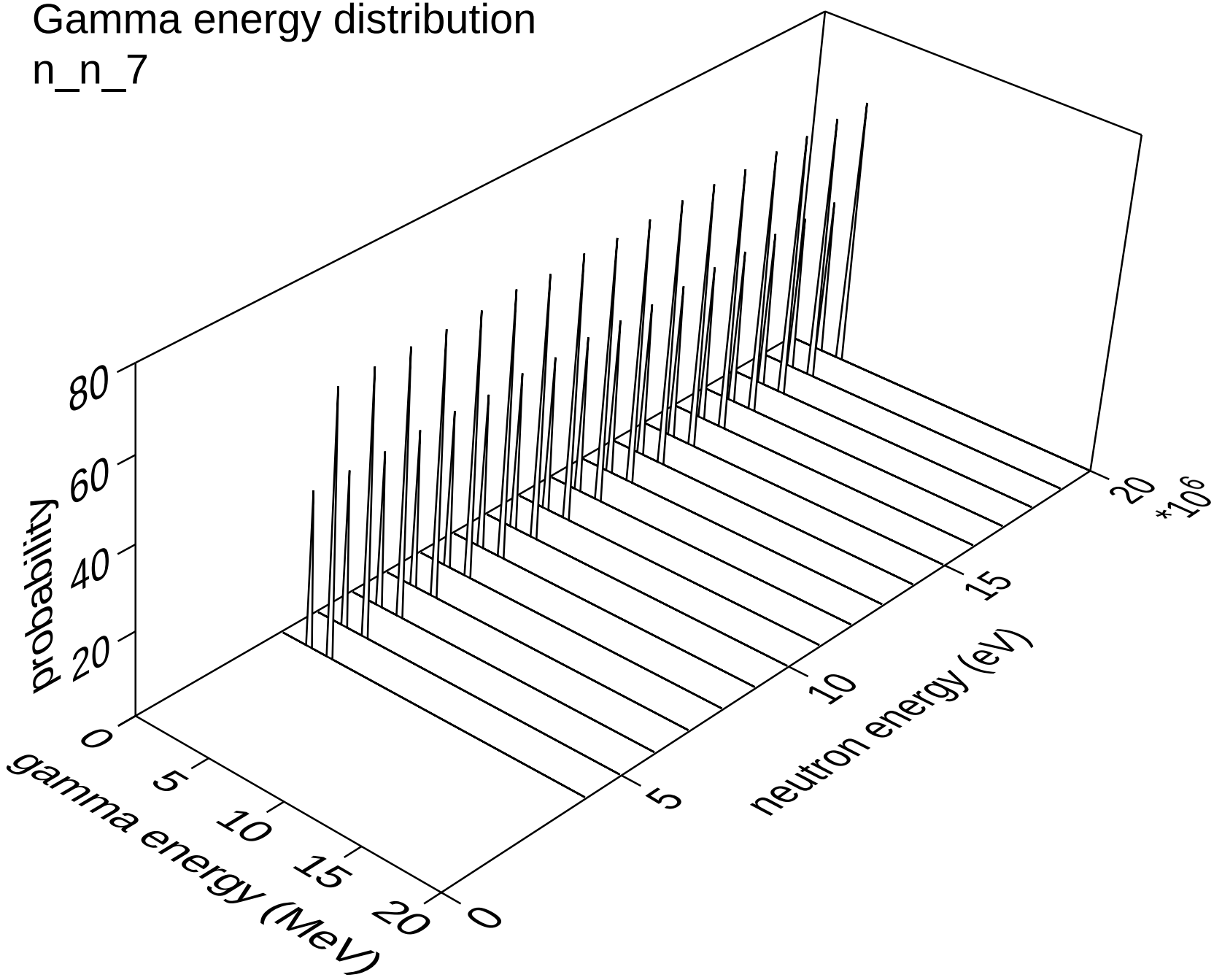


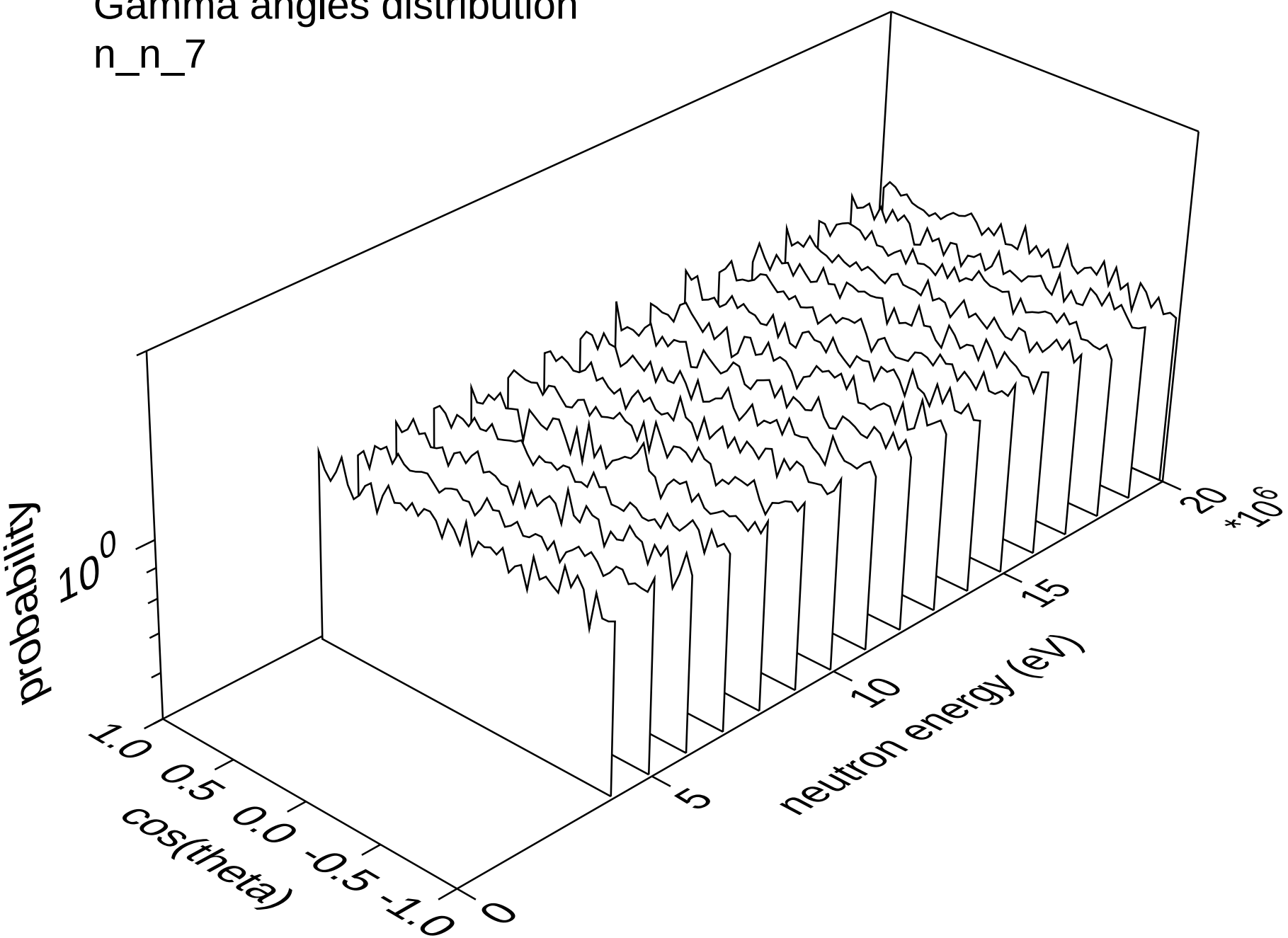

Gamma energy distribution
n_n_6
probability
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_n_6
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

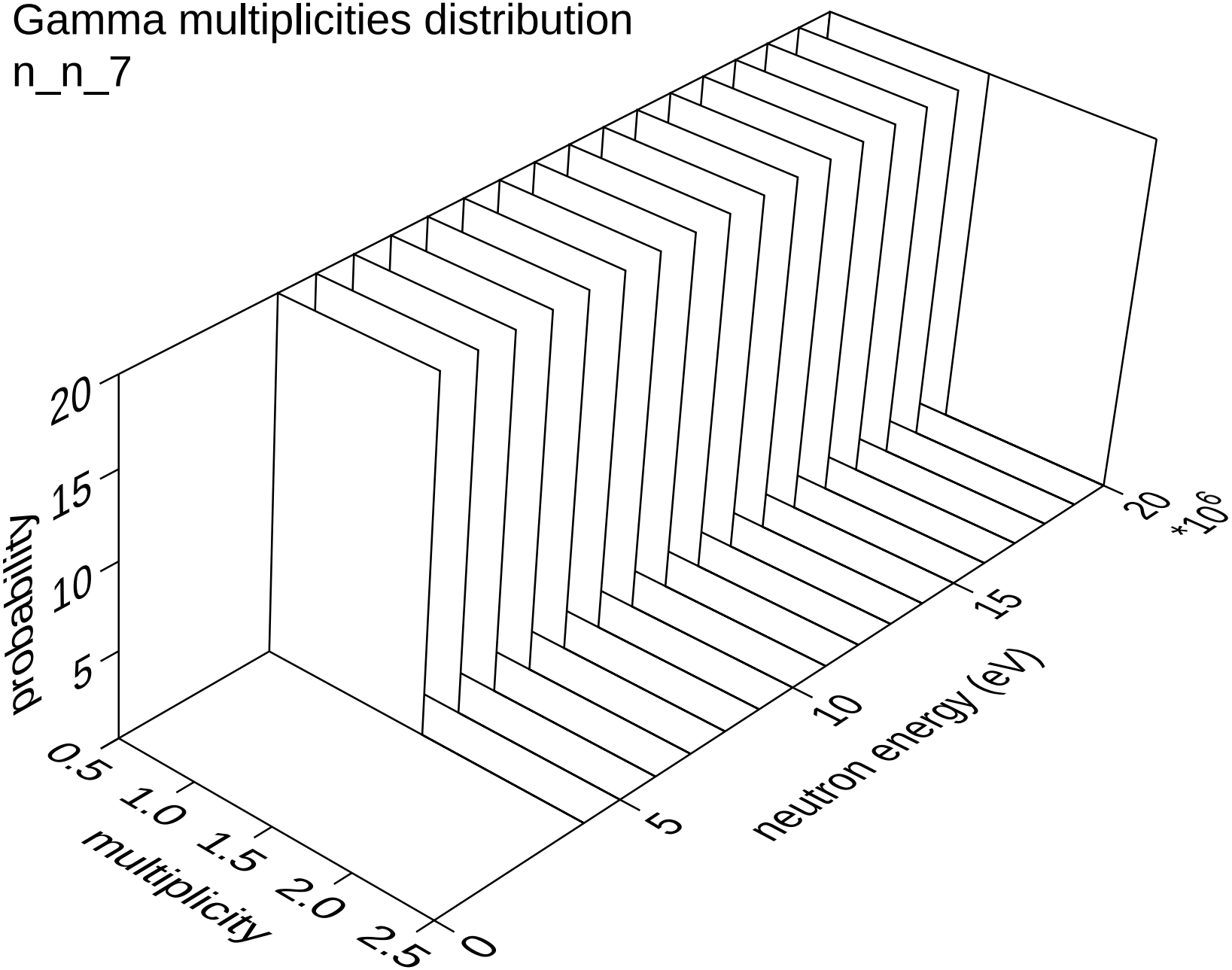
Gamma multiplicities distribution
n_n_6

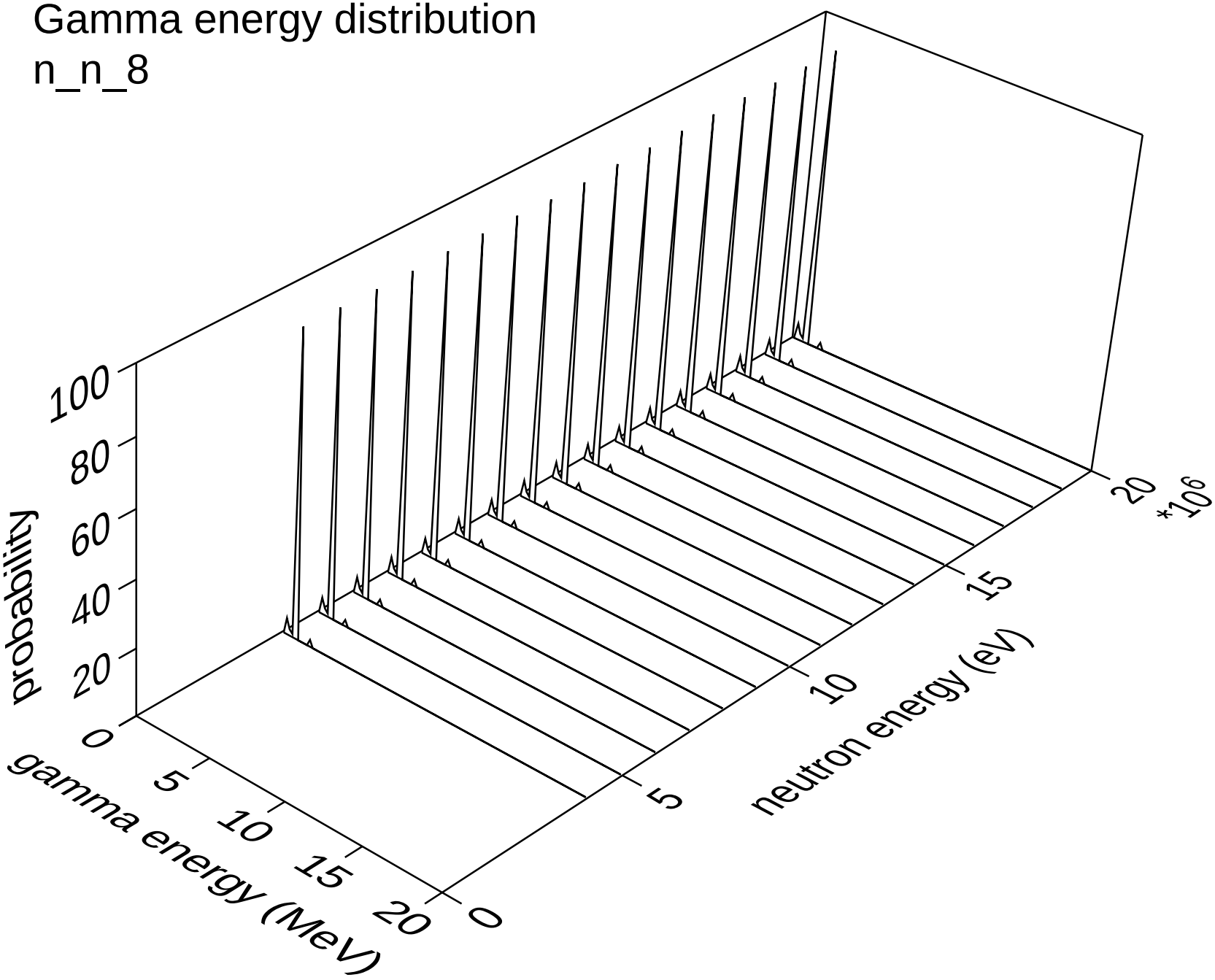


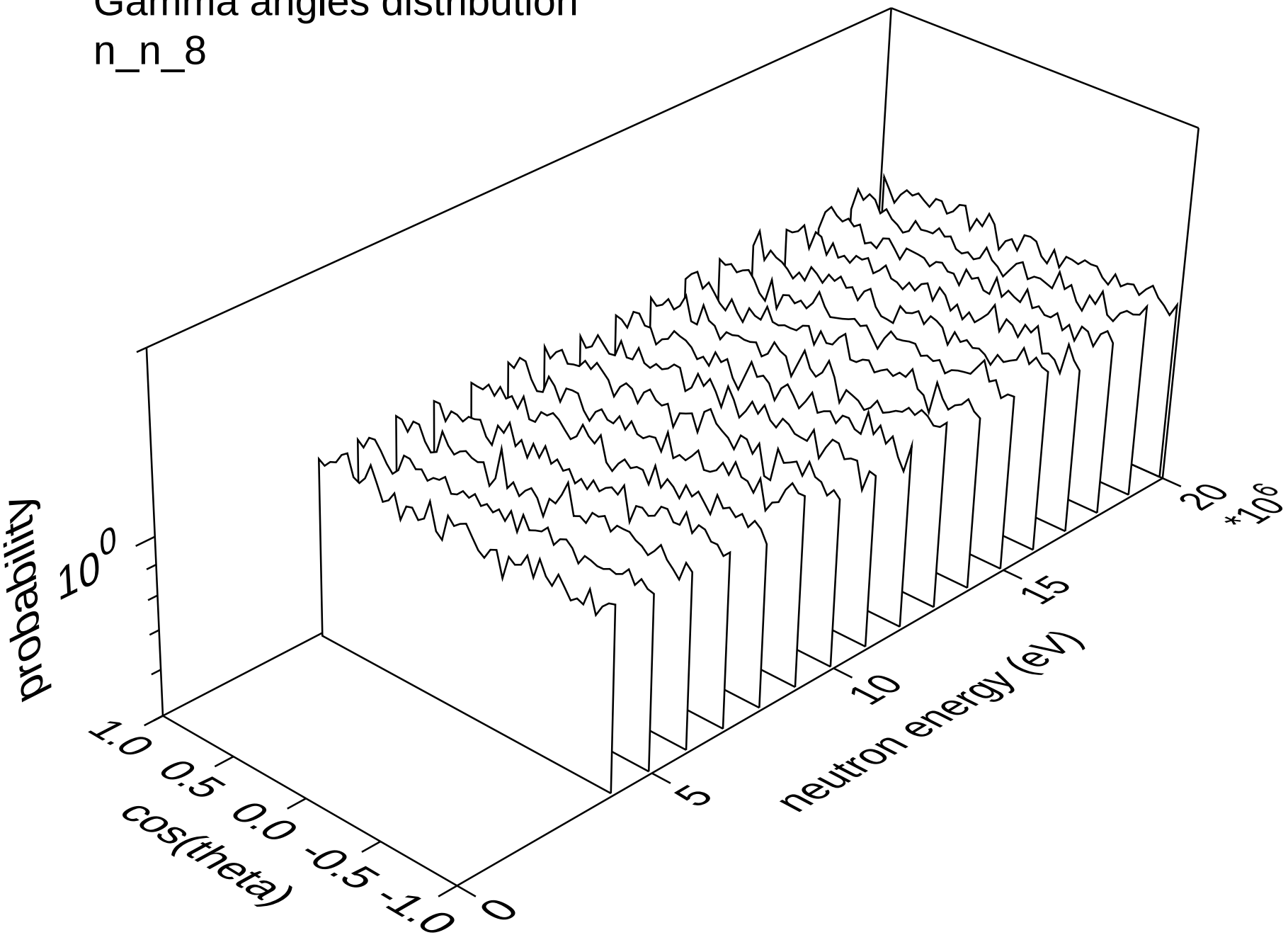

Gamma energy distribution
n_n_7
probability
0
20
40
60
80
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_n_7
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

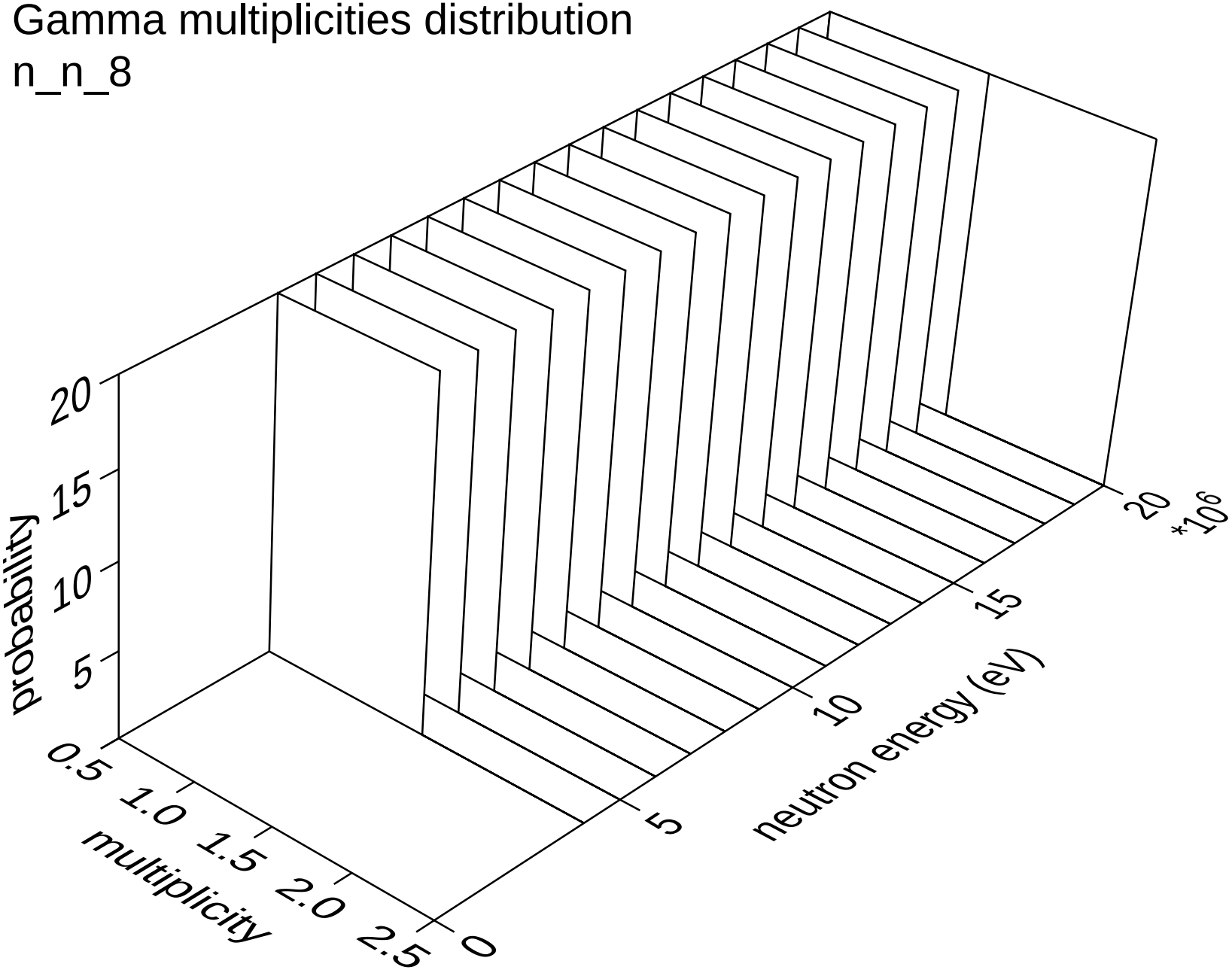
Gamma multiplicities distribution
n_n_7

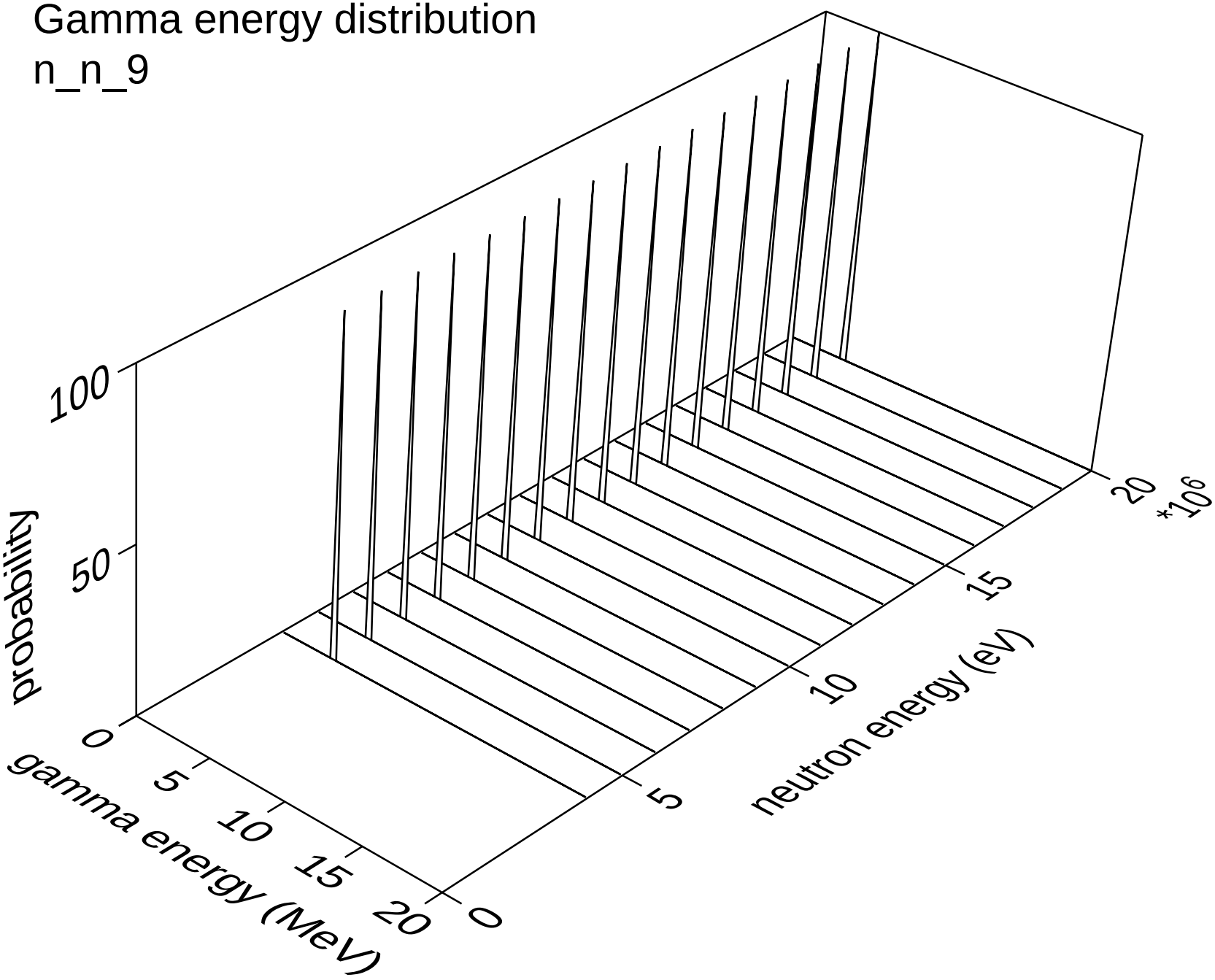


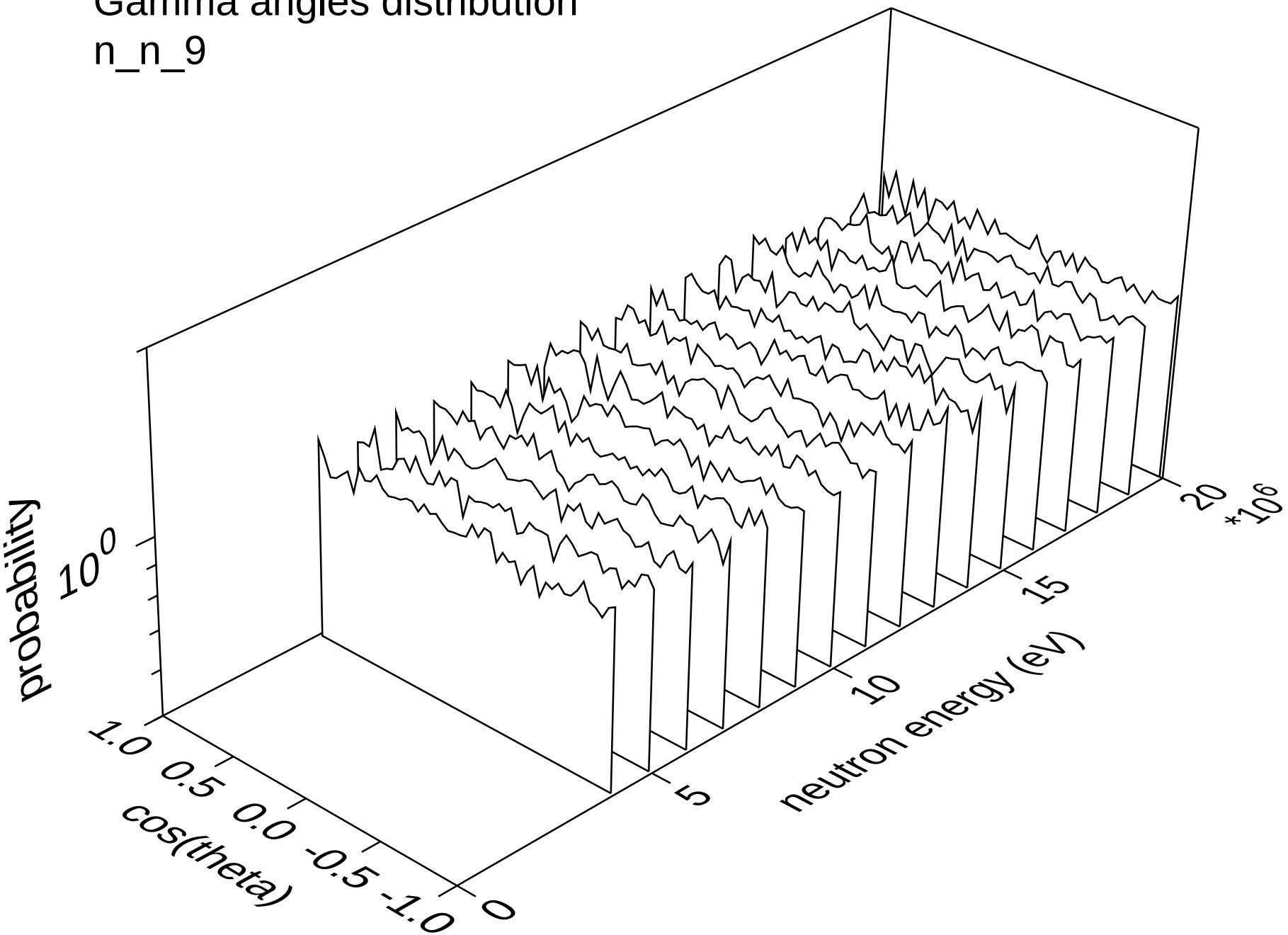

Gamma energy distribution
n_n_8
probability
100
80
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_n_8
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

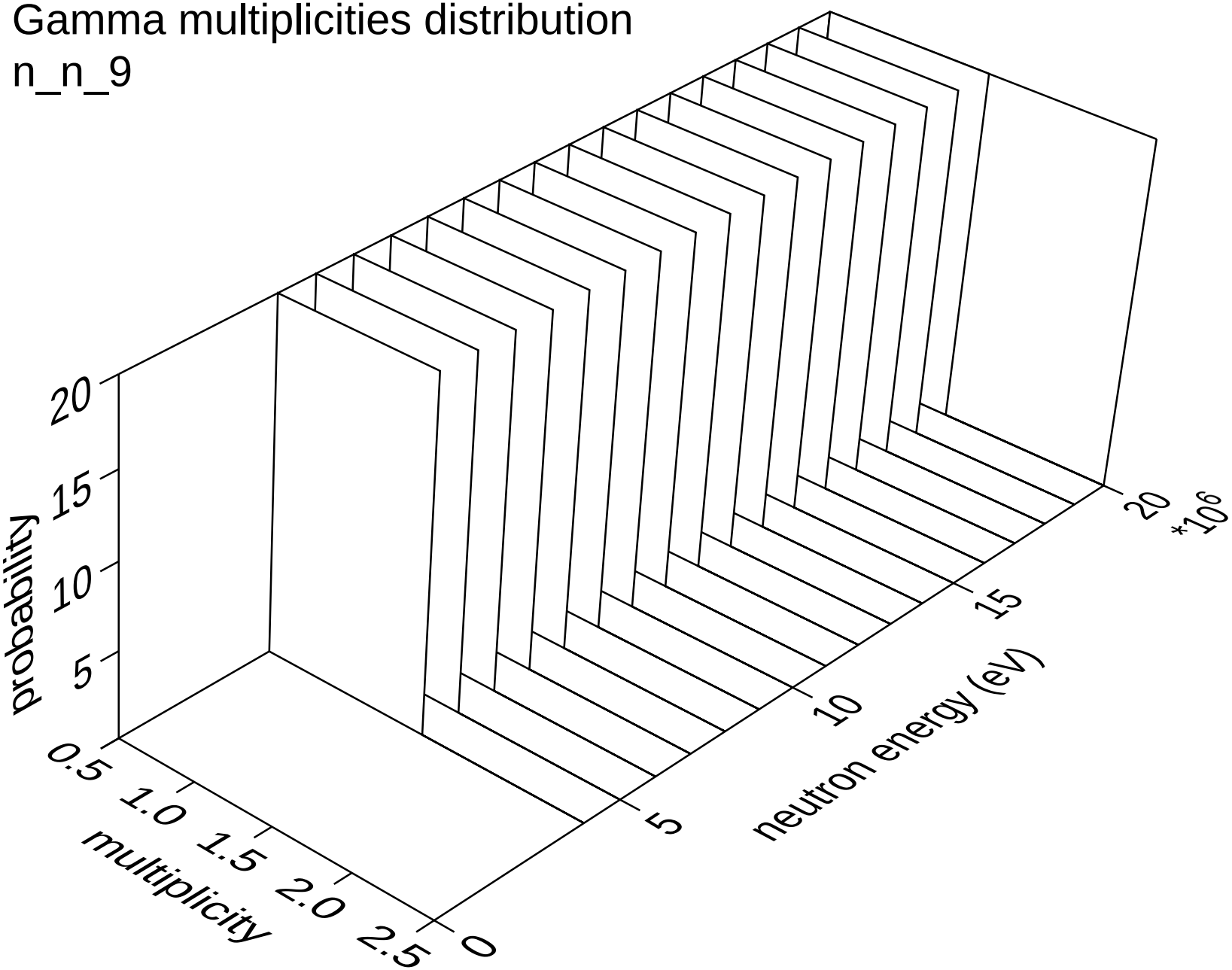
Gamma multiplicities distribution
n_n_8

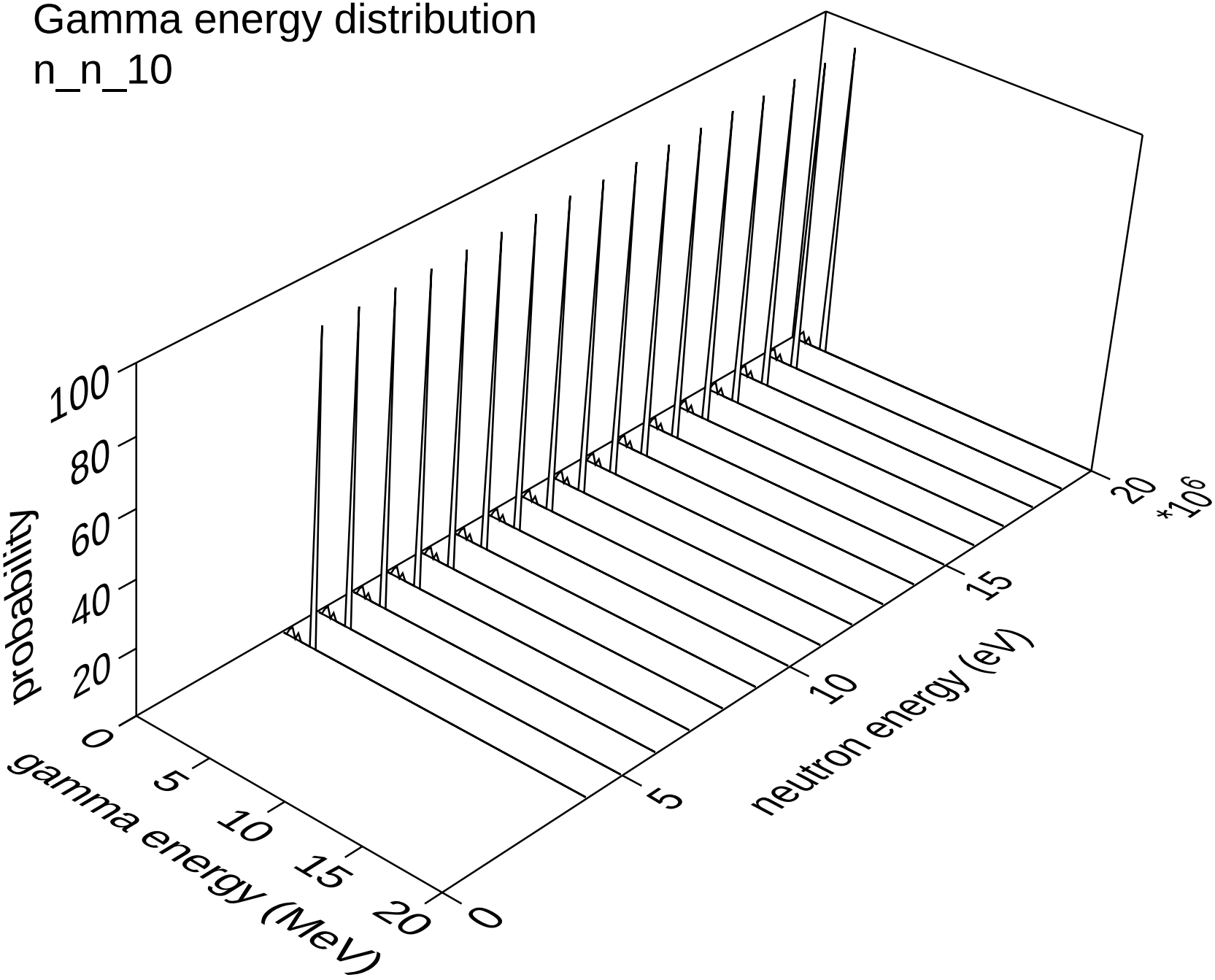


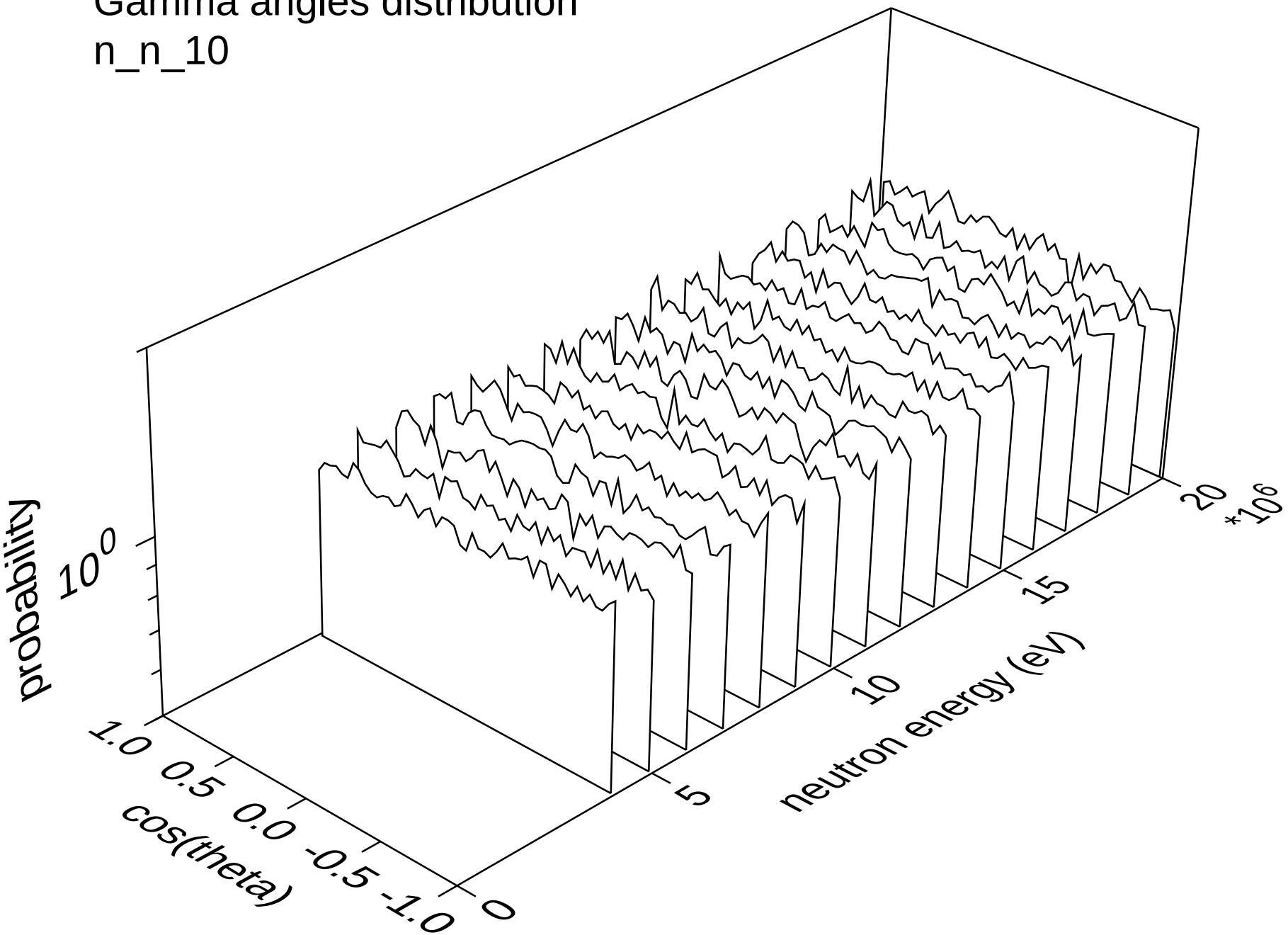

Gamma energy distribution
n_n_9
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_n_9
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

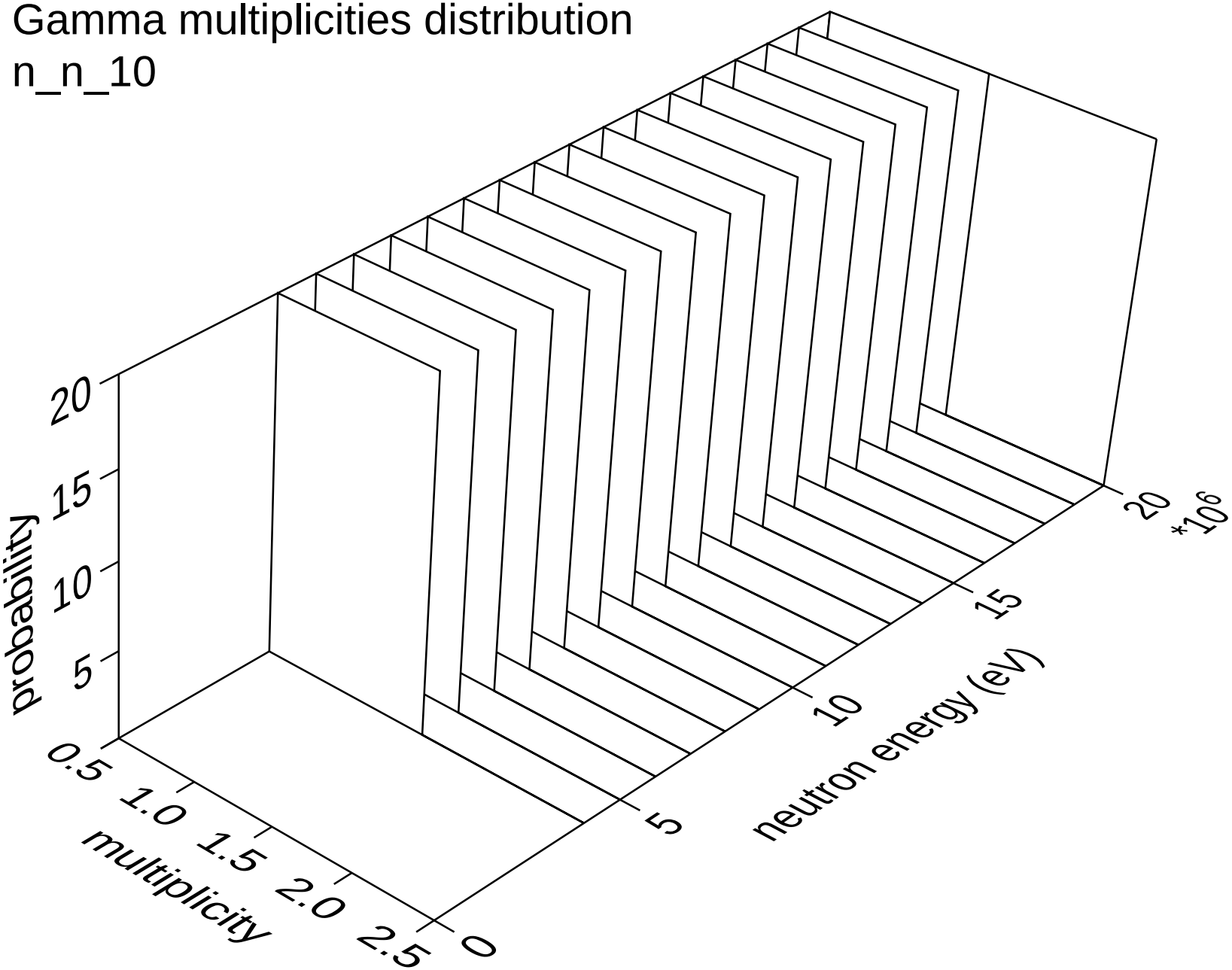
Gamma multiplicities distribution
n_n_9

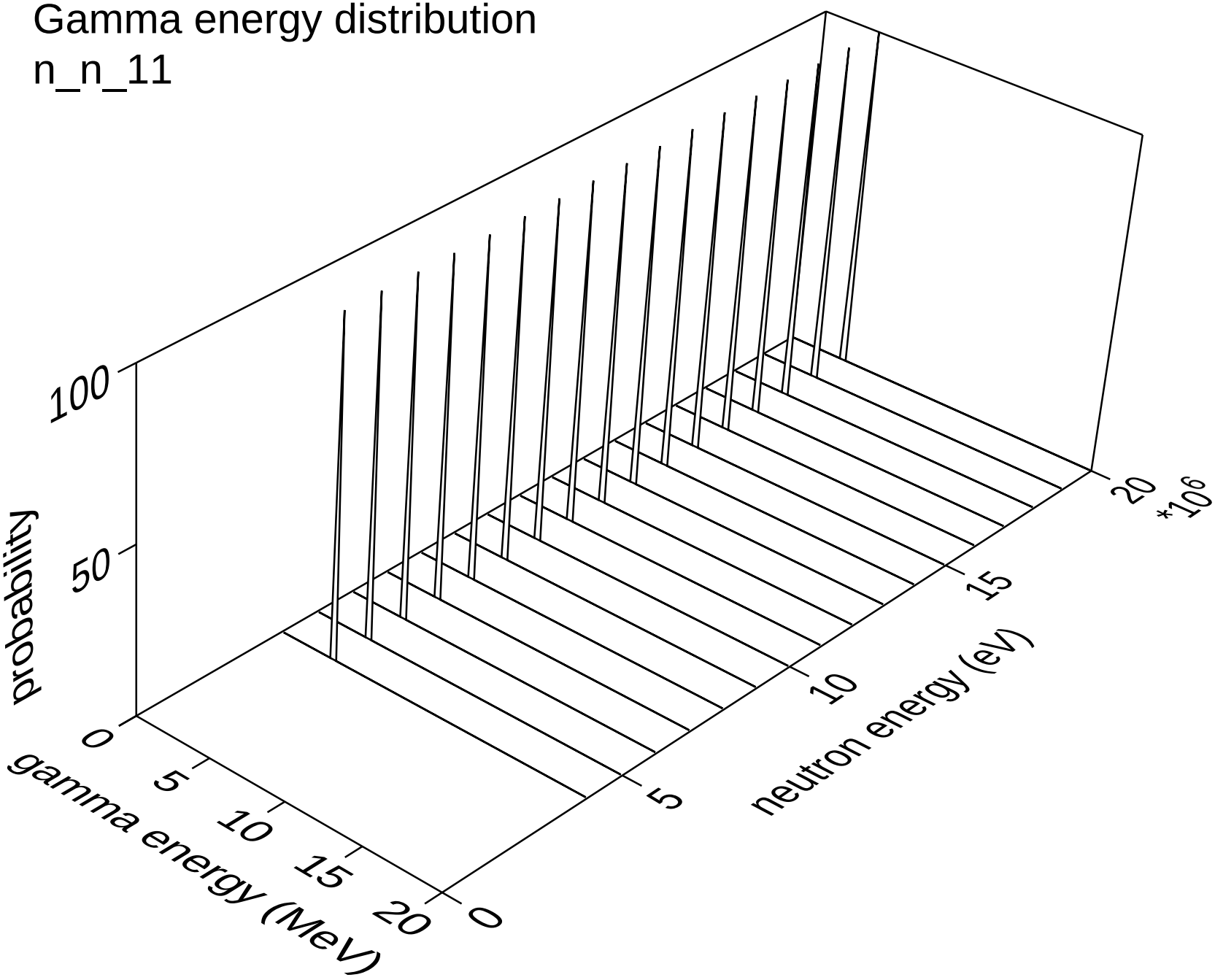


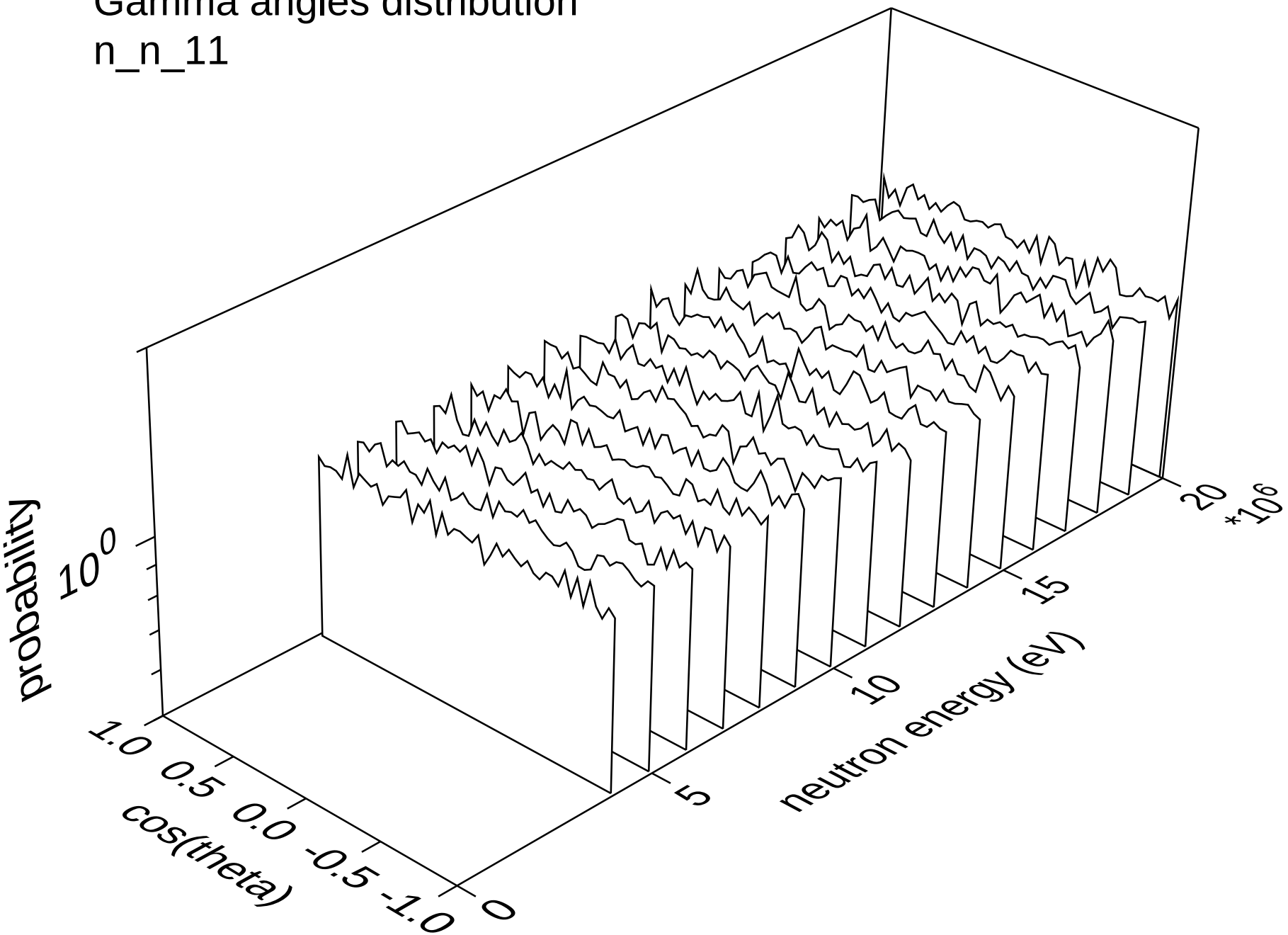

Gamma energy distribution
n_n_10
probability
100
80
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_n_10
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

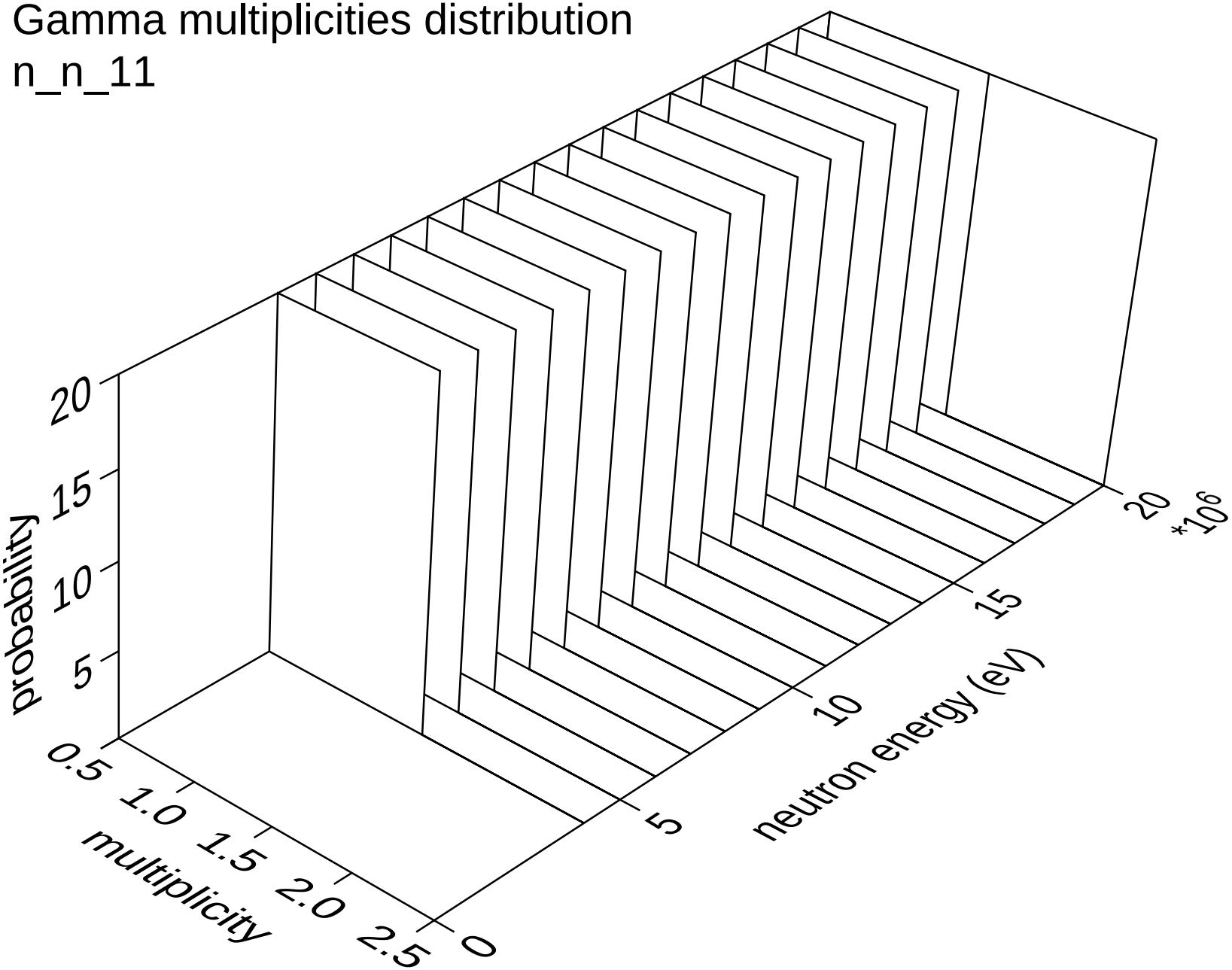
Gamma multiplicities distribution
n_n_10

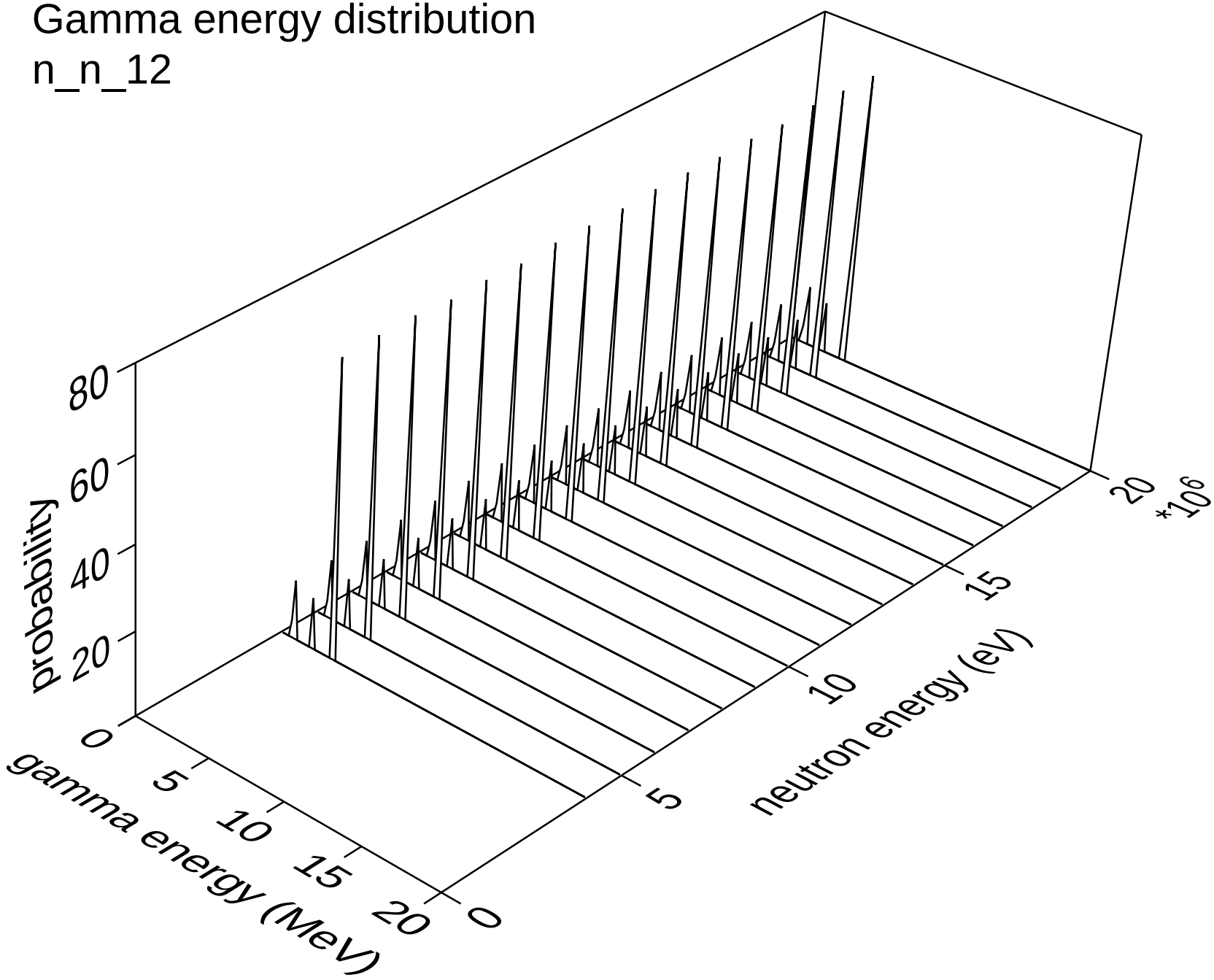


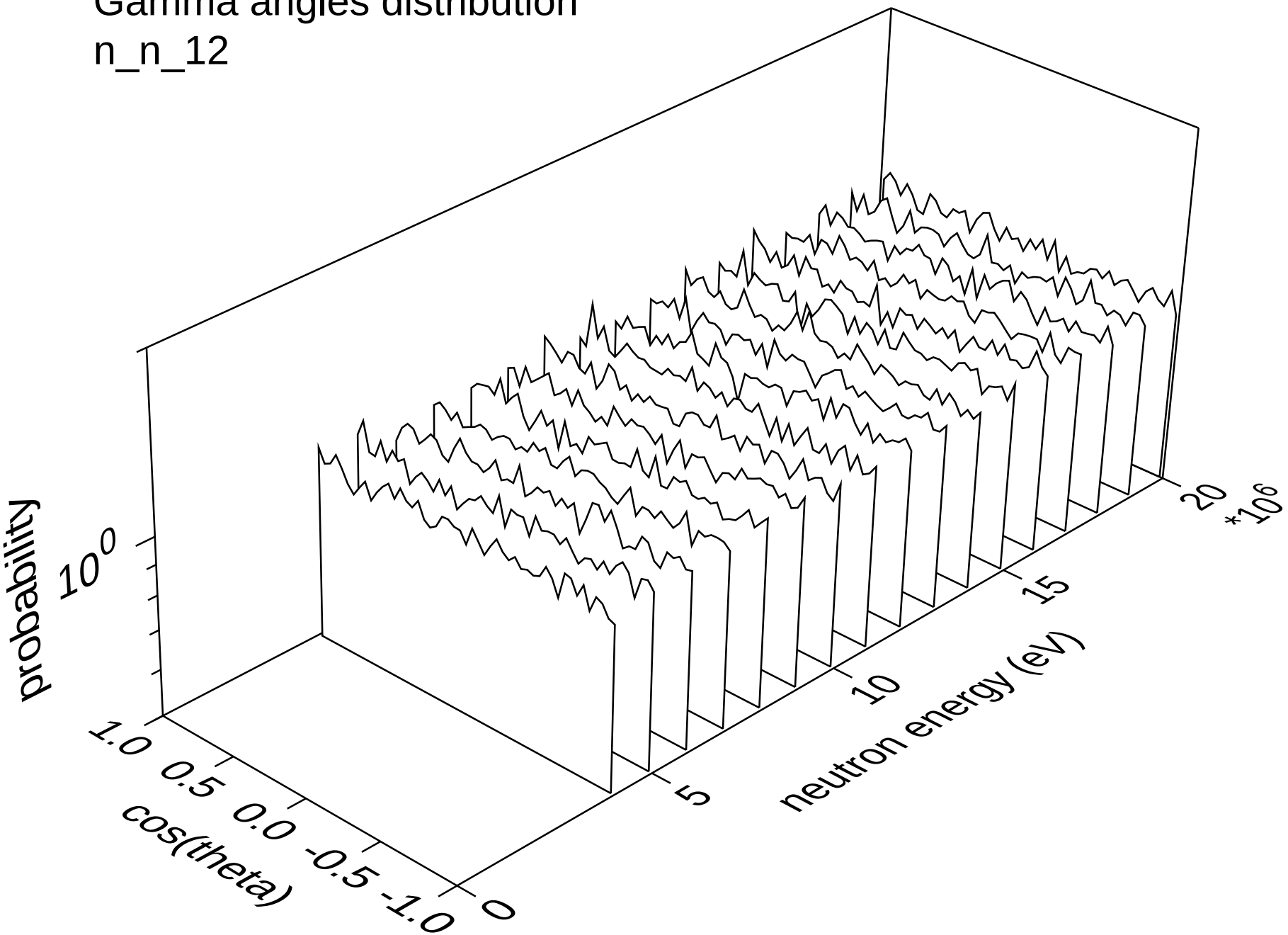

Gamma energy distribution
n_n_11
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_n_11
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

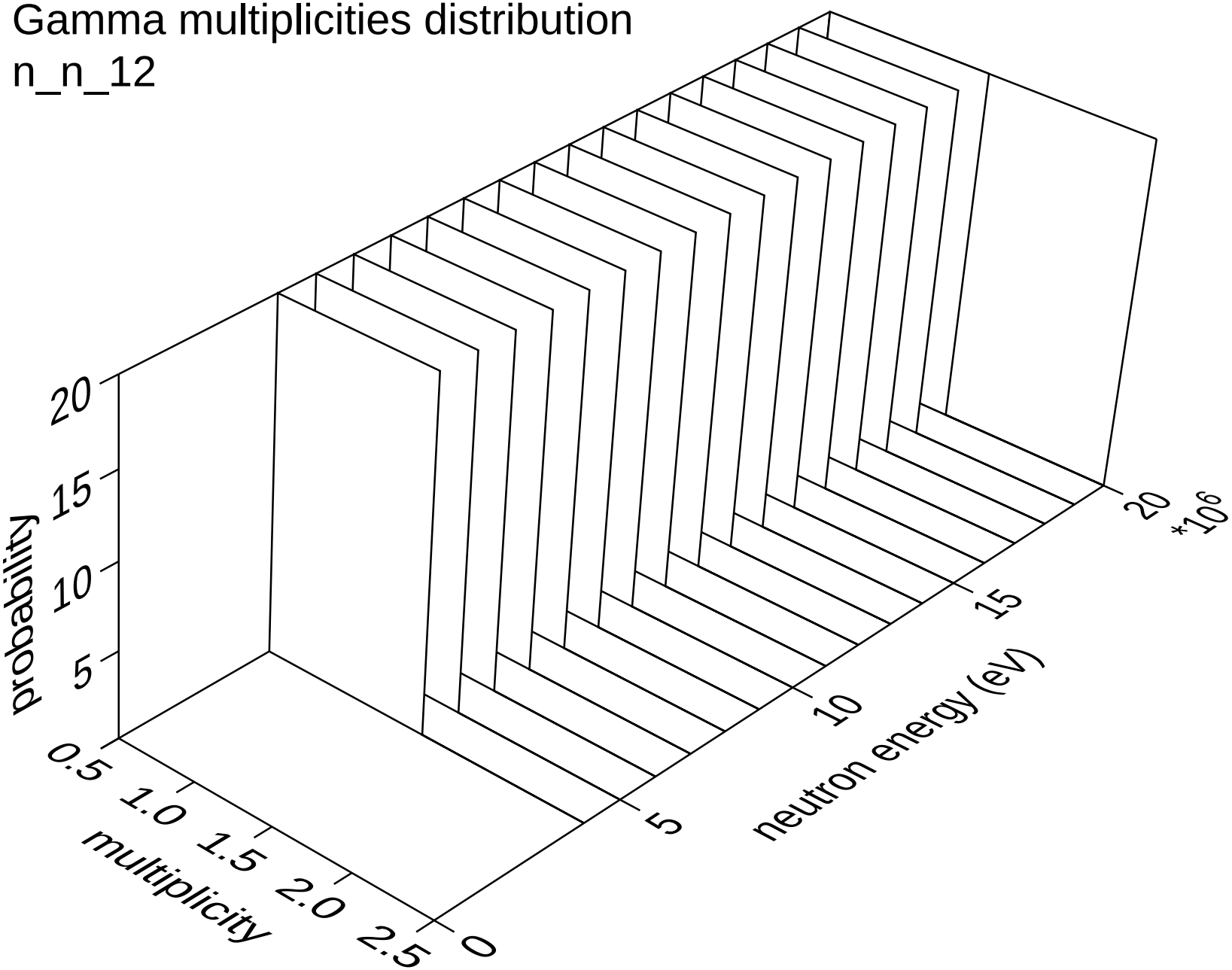
Gamma multiplicities distribution
n_n_11

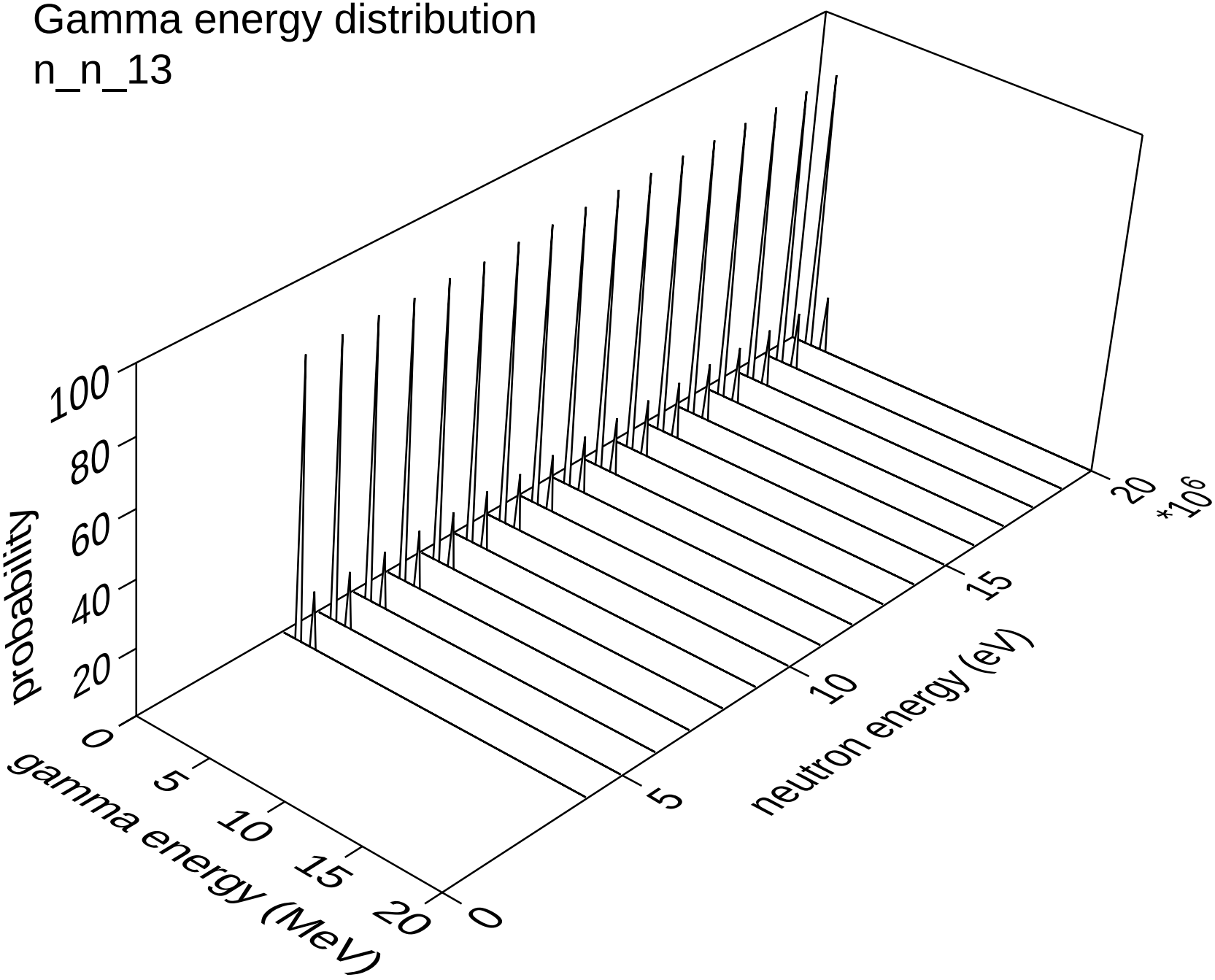


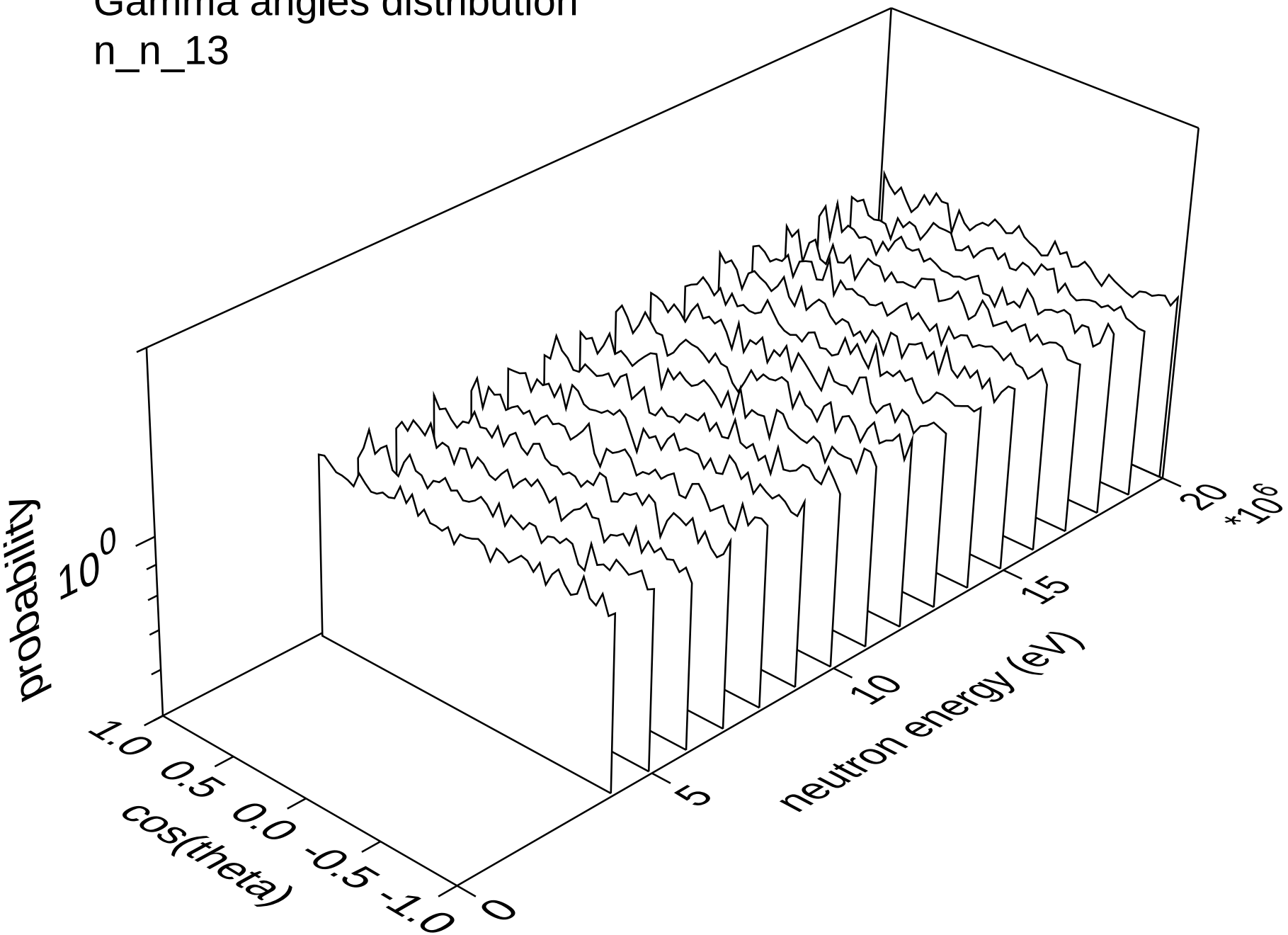

Gamma energy distribution
n_n_12
probability
80
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_n_12
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

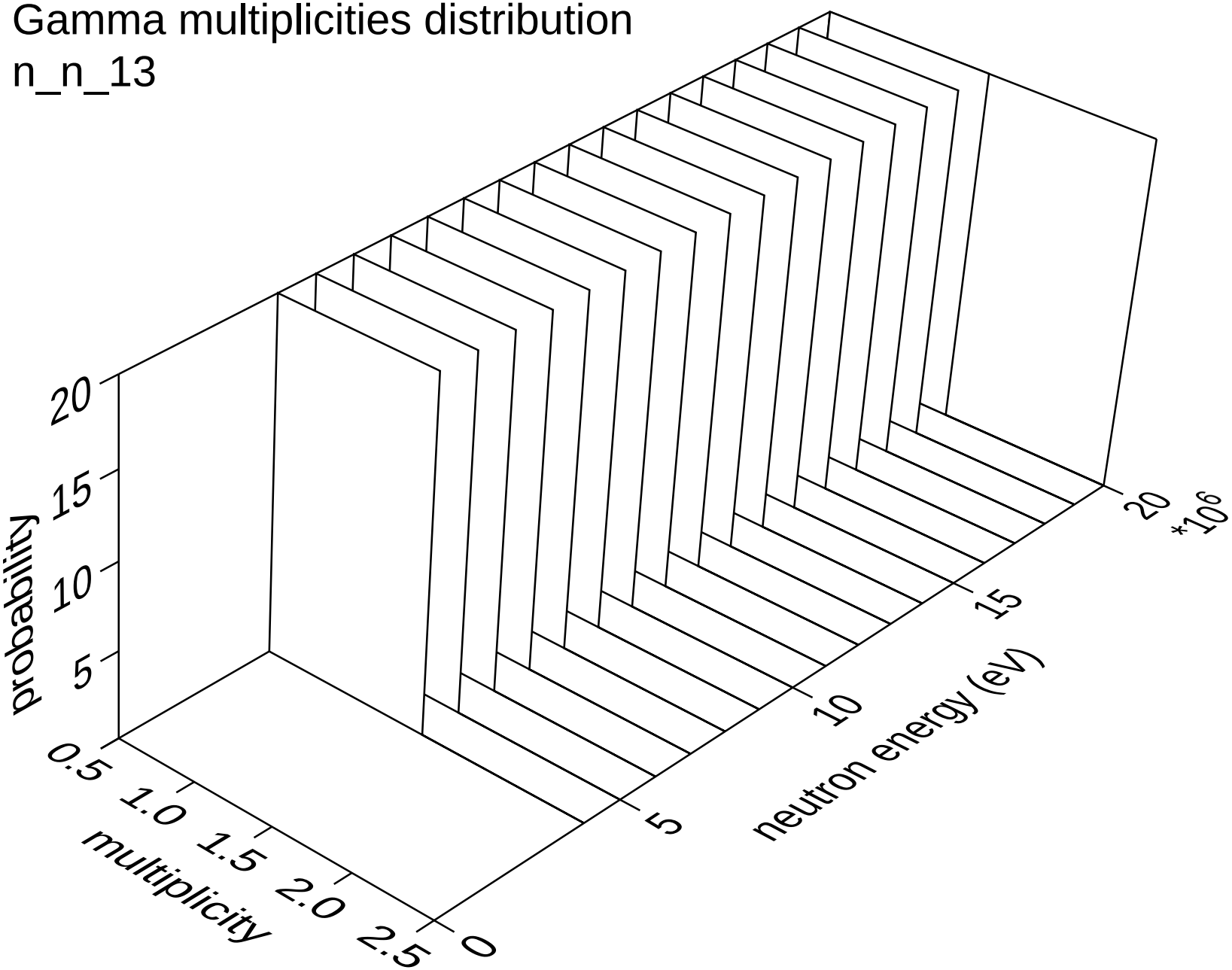
Gamma multiplicities distribution
n_n_12

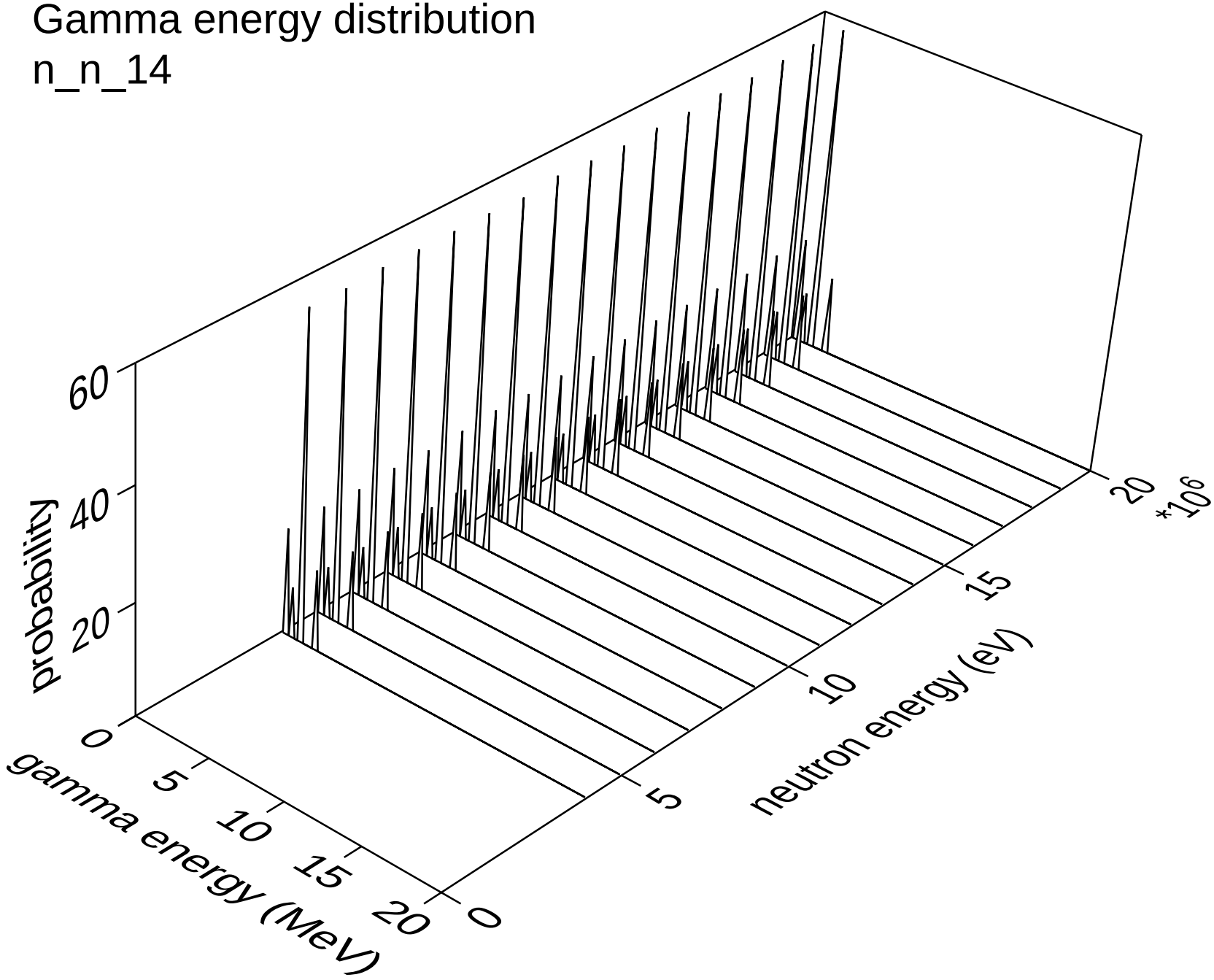


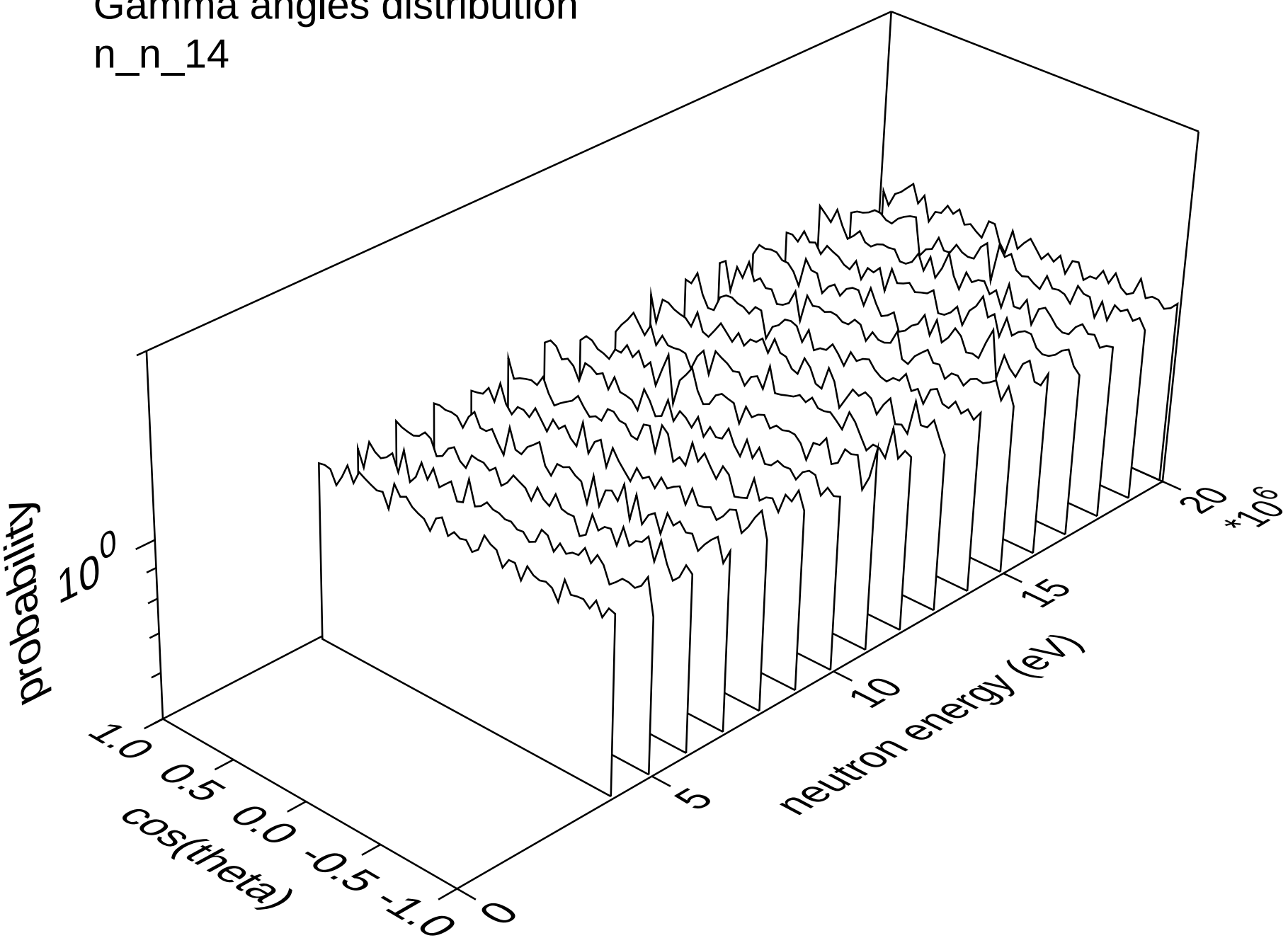

Gamma energy distribution
n_n_13
probability
100
80
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_n_13
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

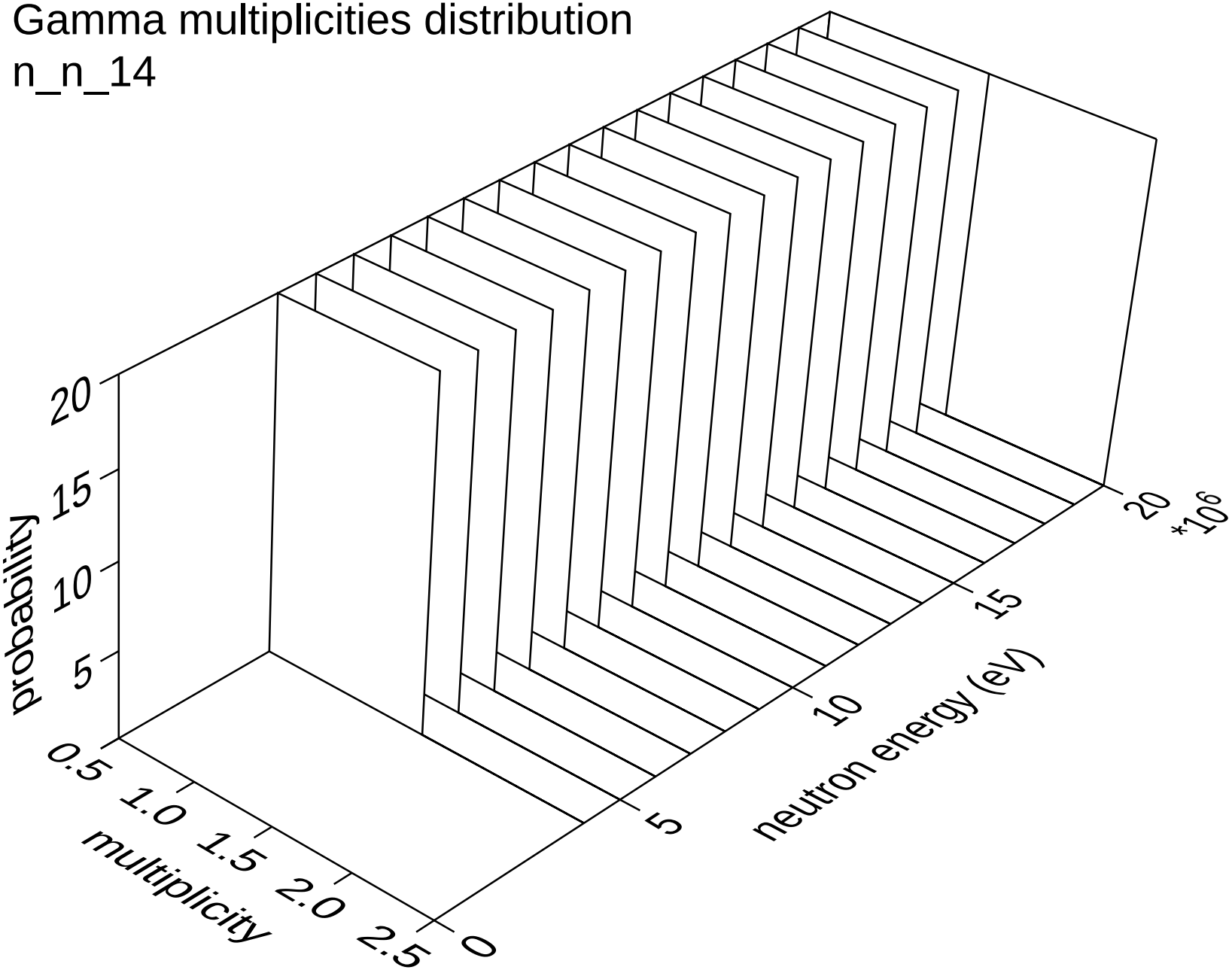
Gamma multiplicities distribution
n_n_13

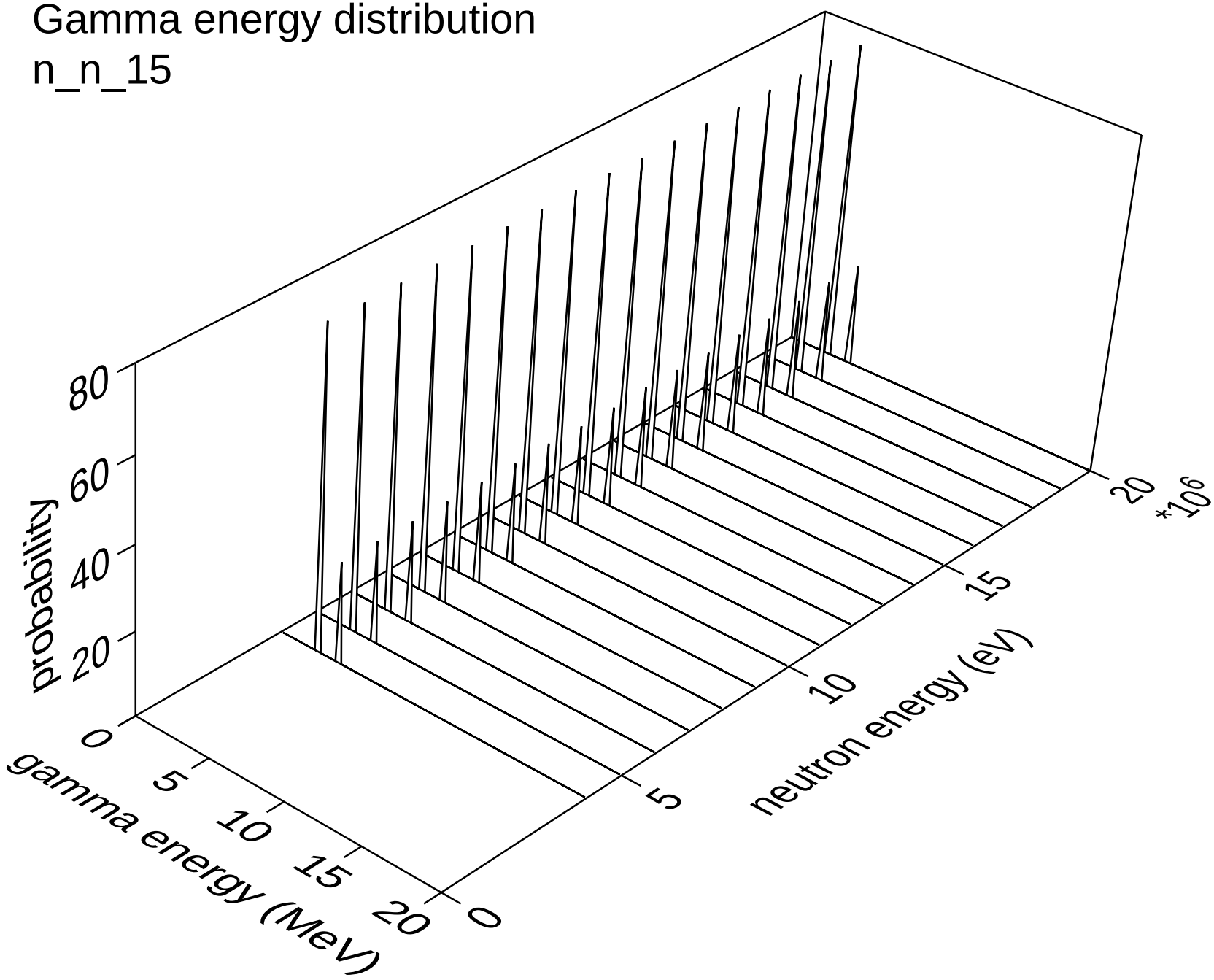


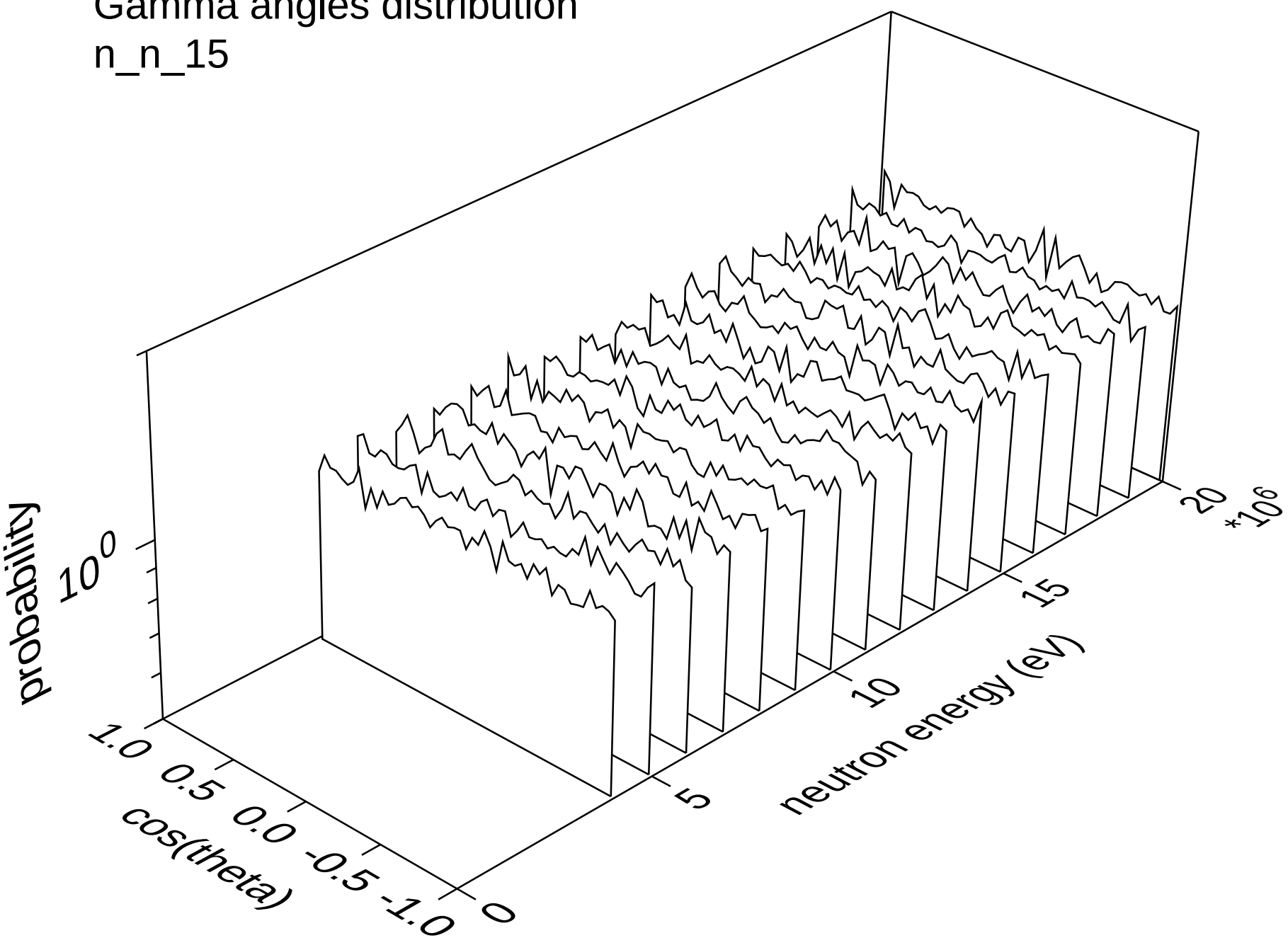

Gamma energy distribution
n_n_14
probability
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
5
10
15
20
*10^6


Gamma angles distribution
n_n_14
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

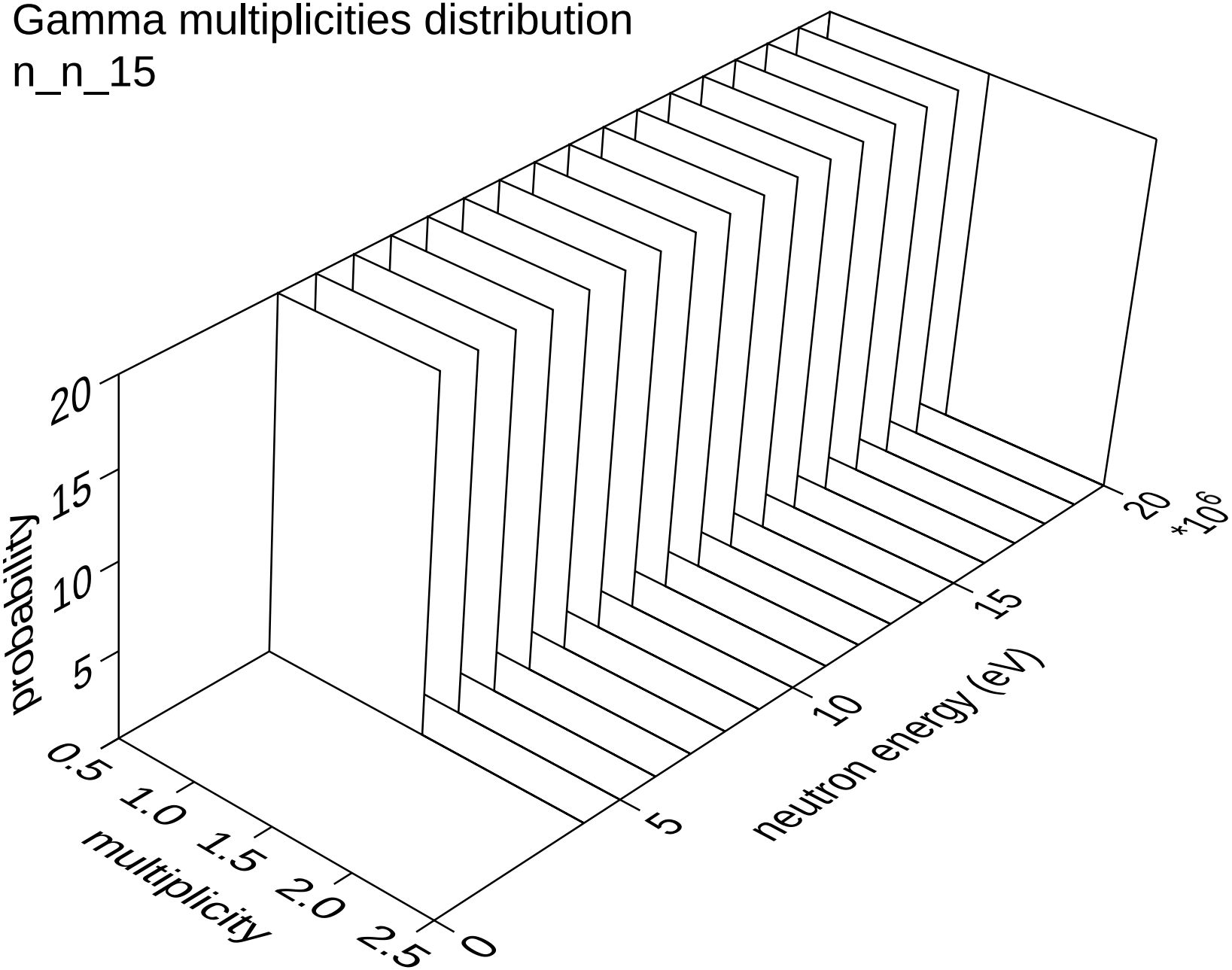
Gamma multiplicities distribution
n_n_14

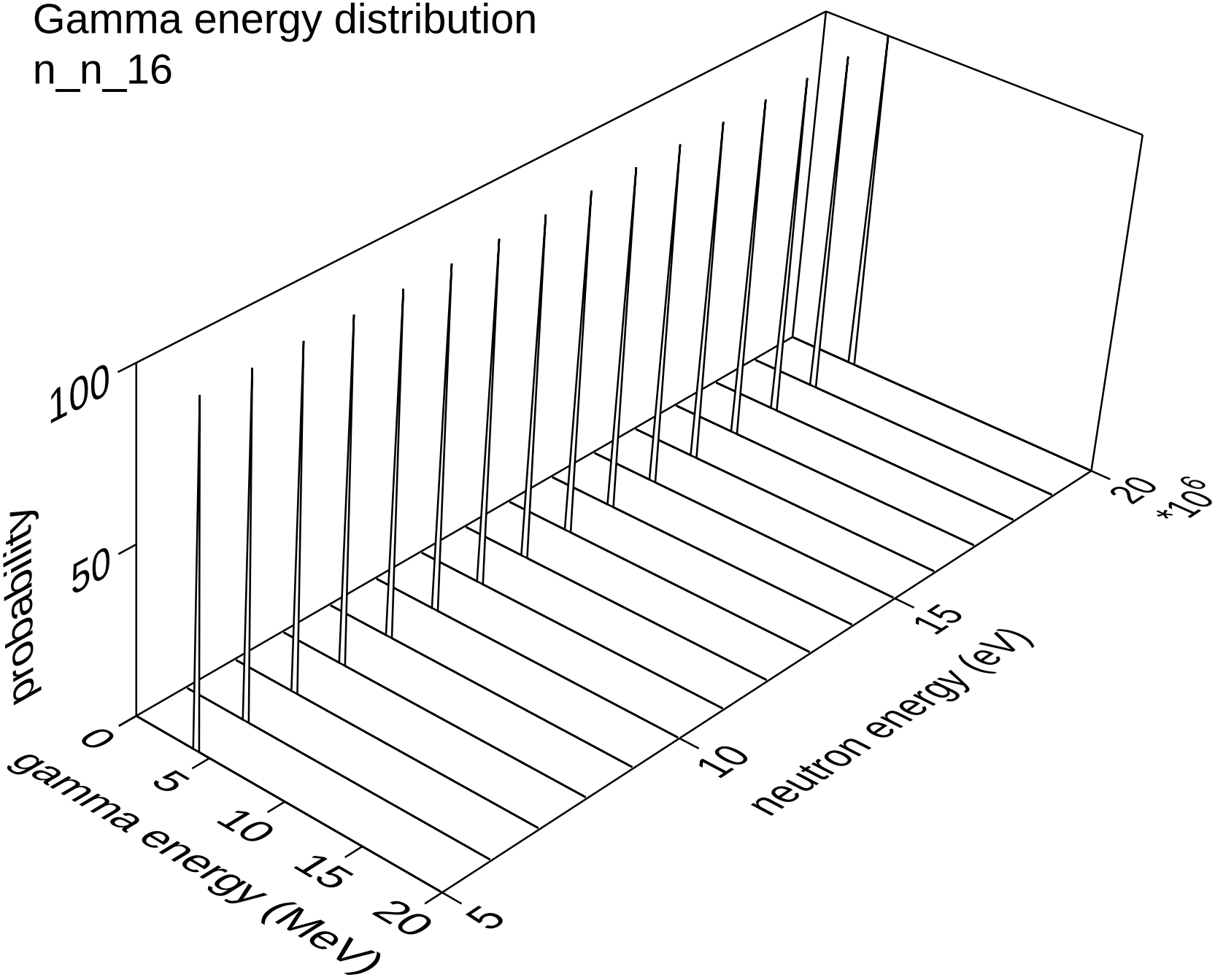


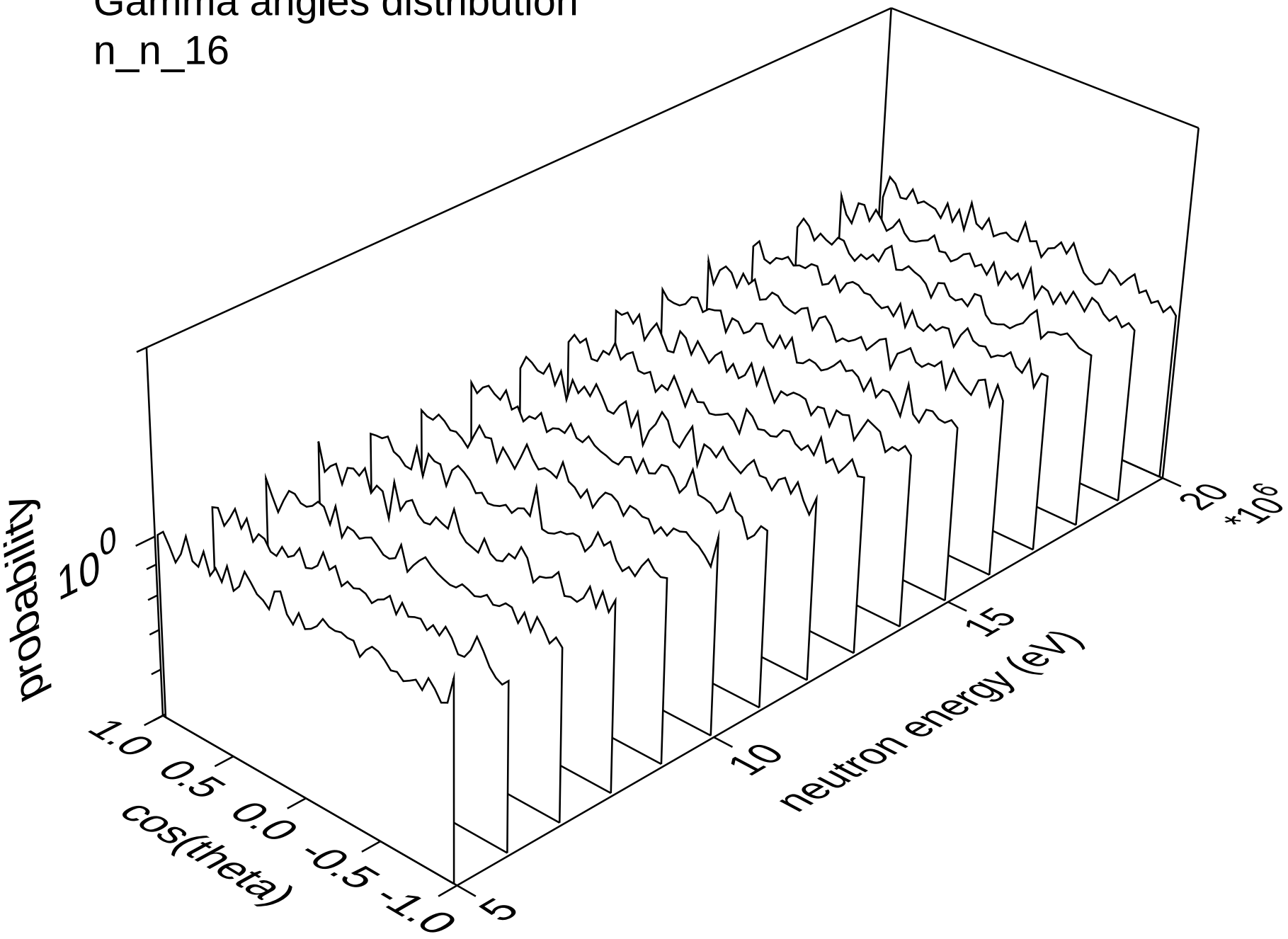

Gamma energy distribution
n_n_15
probability
0
20
40
60
80
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_n_15
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

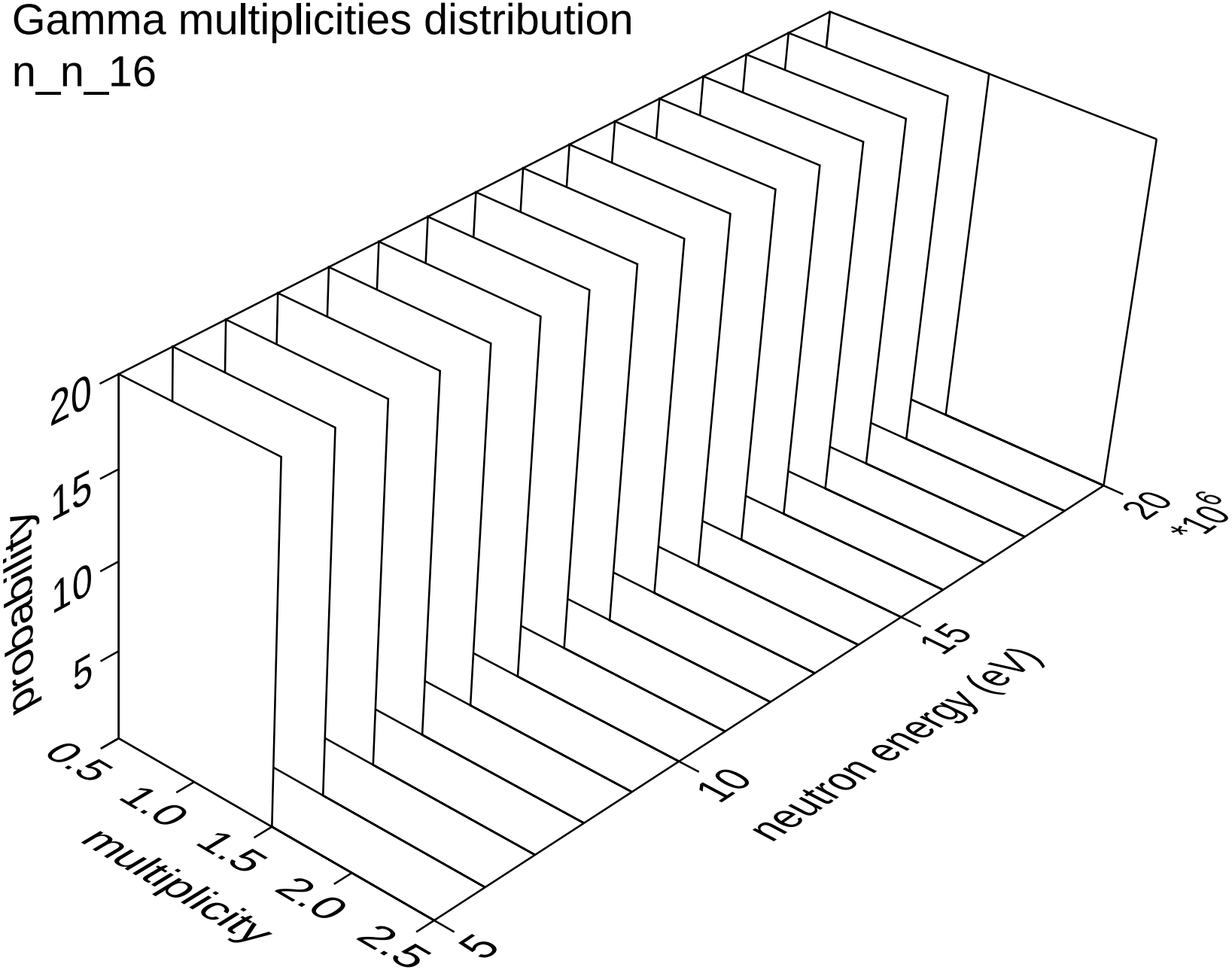
Gamma multiplicities distribution
n_n_15

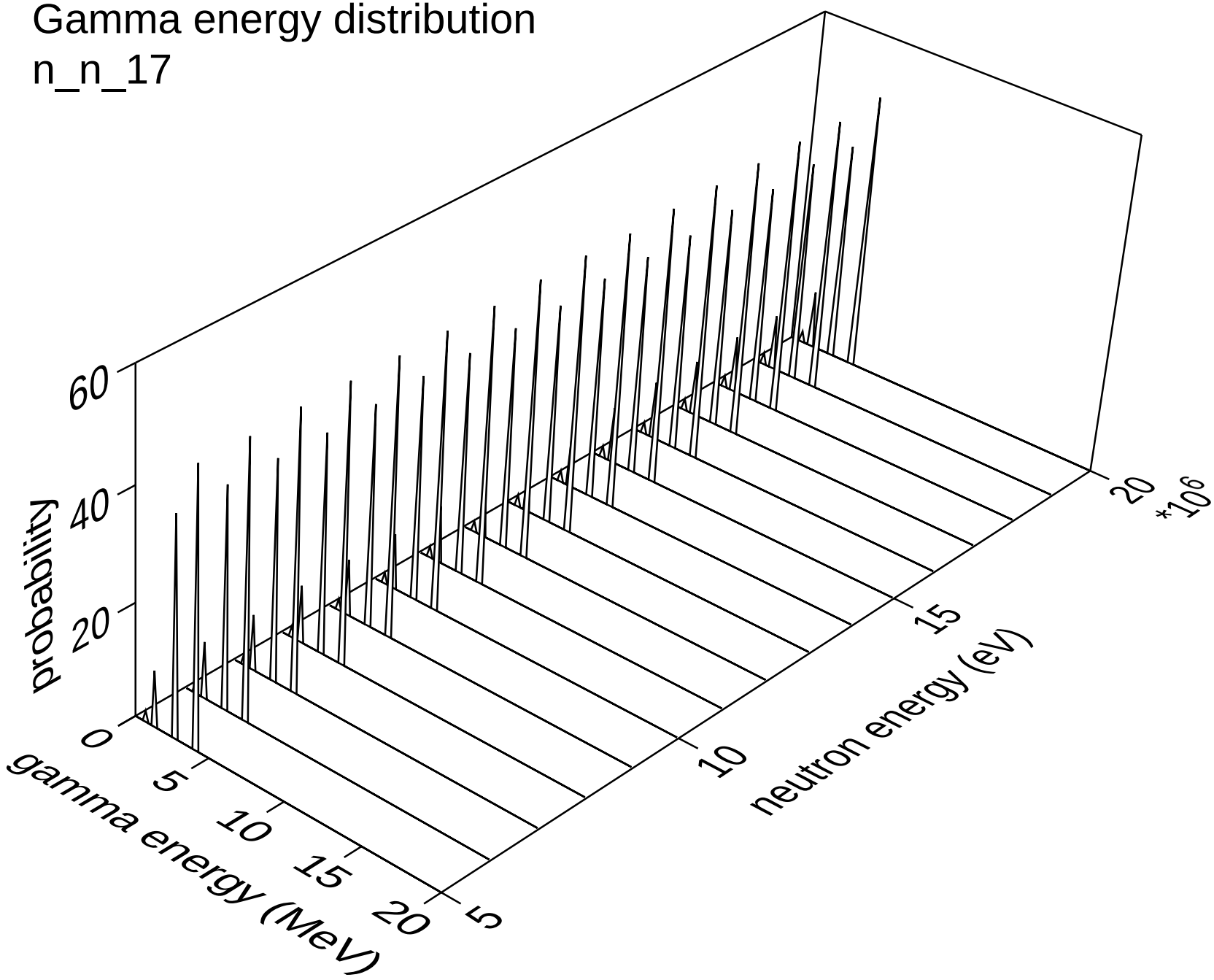


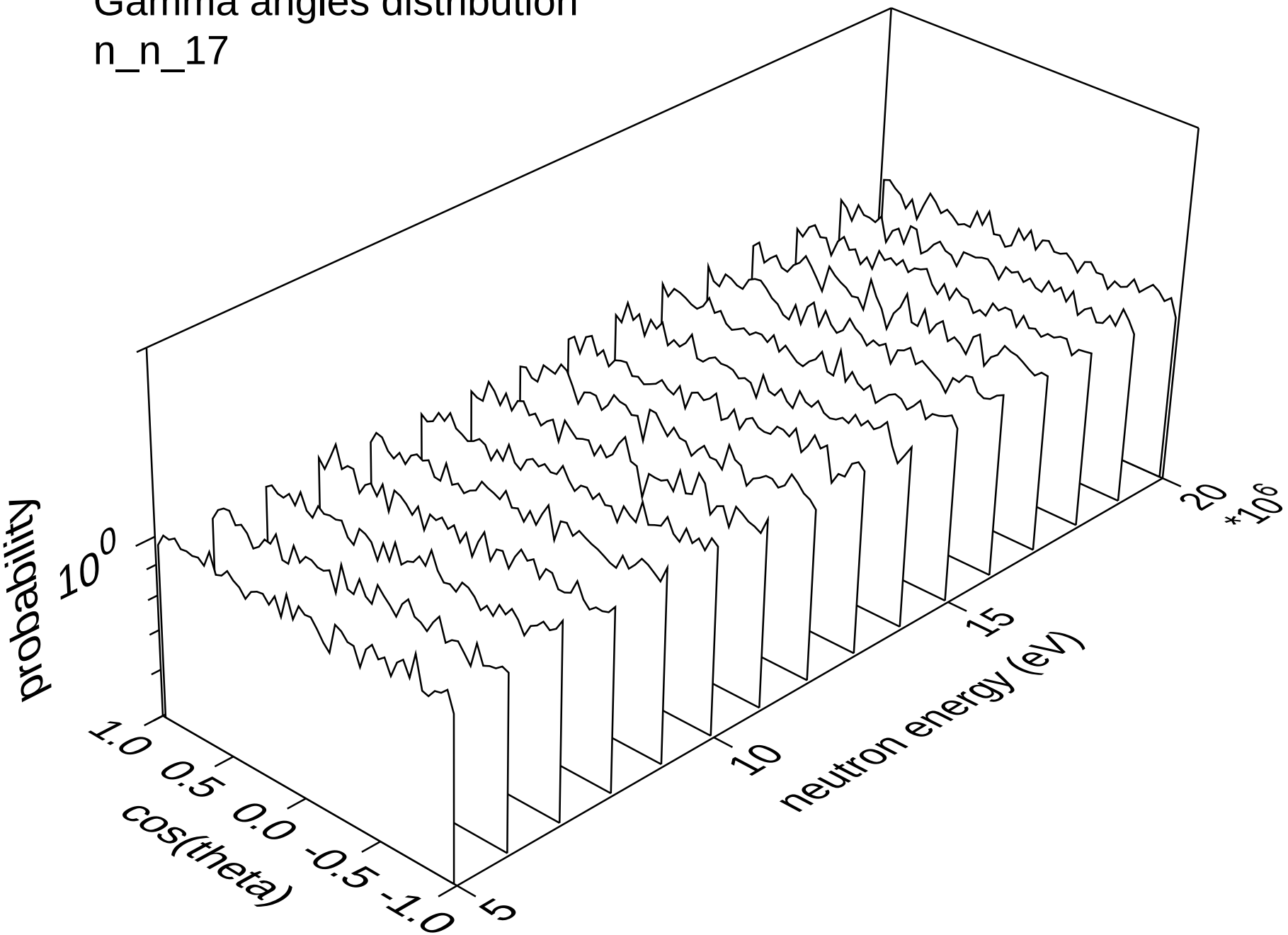

Gamma energy distribution
n_n_16
probability
100
50
0
gamma energy (MeV)
5
10
15
20
5
neutron energy (eV)
10
15
20
*10^6


Gamma angles distribution
n_n_16
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

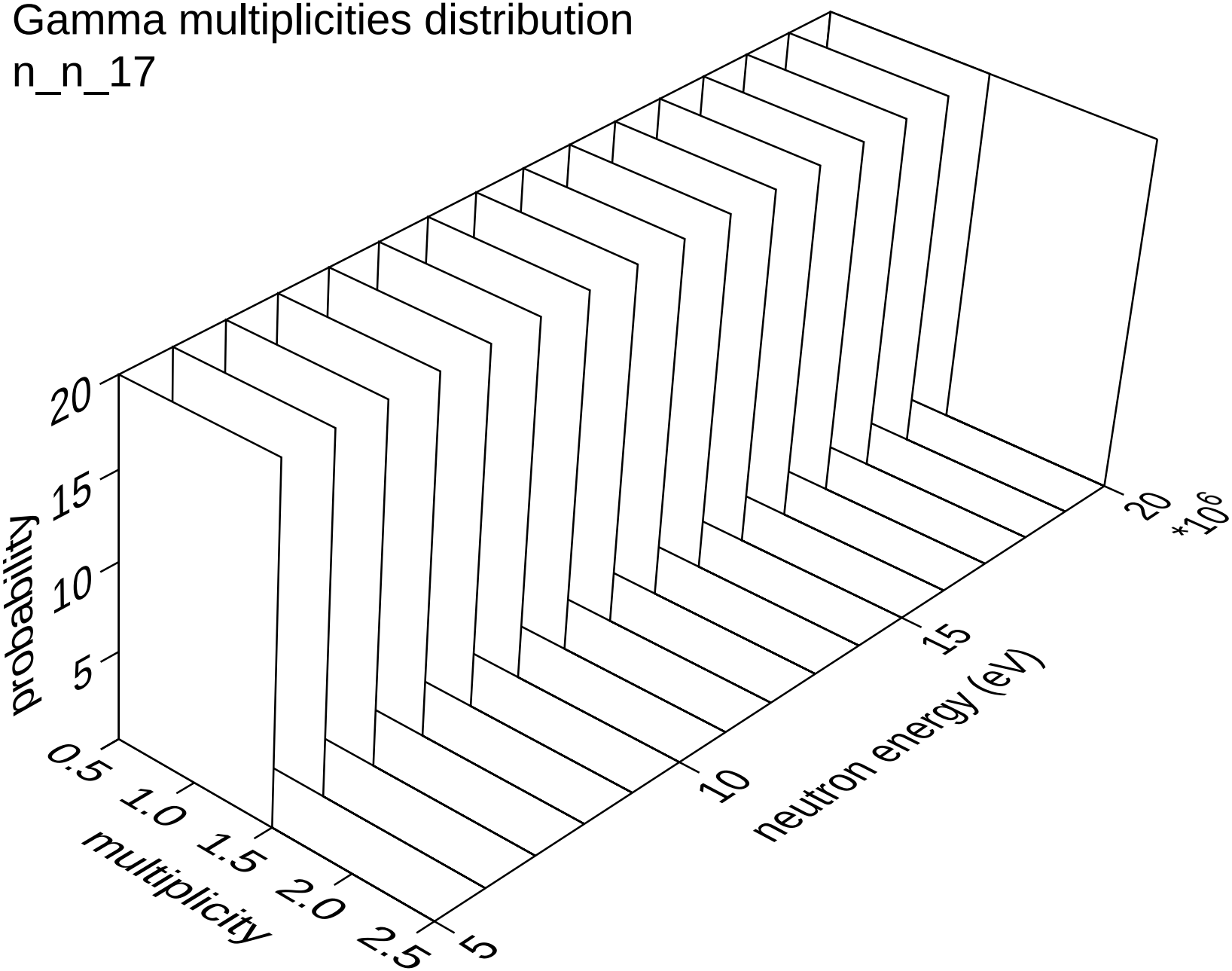
Gamma multiplicities distribution
n_n_16

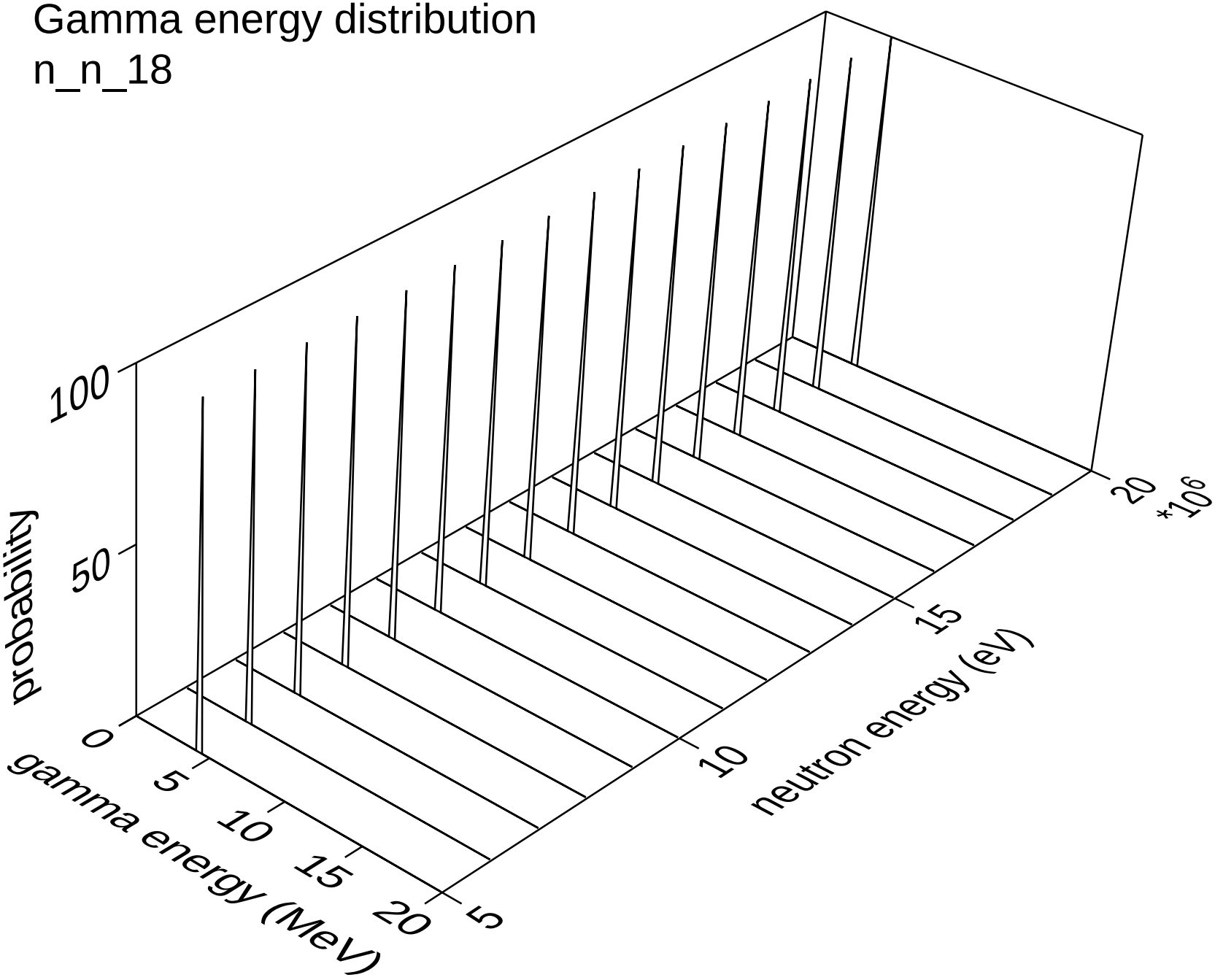


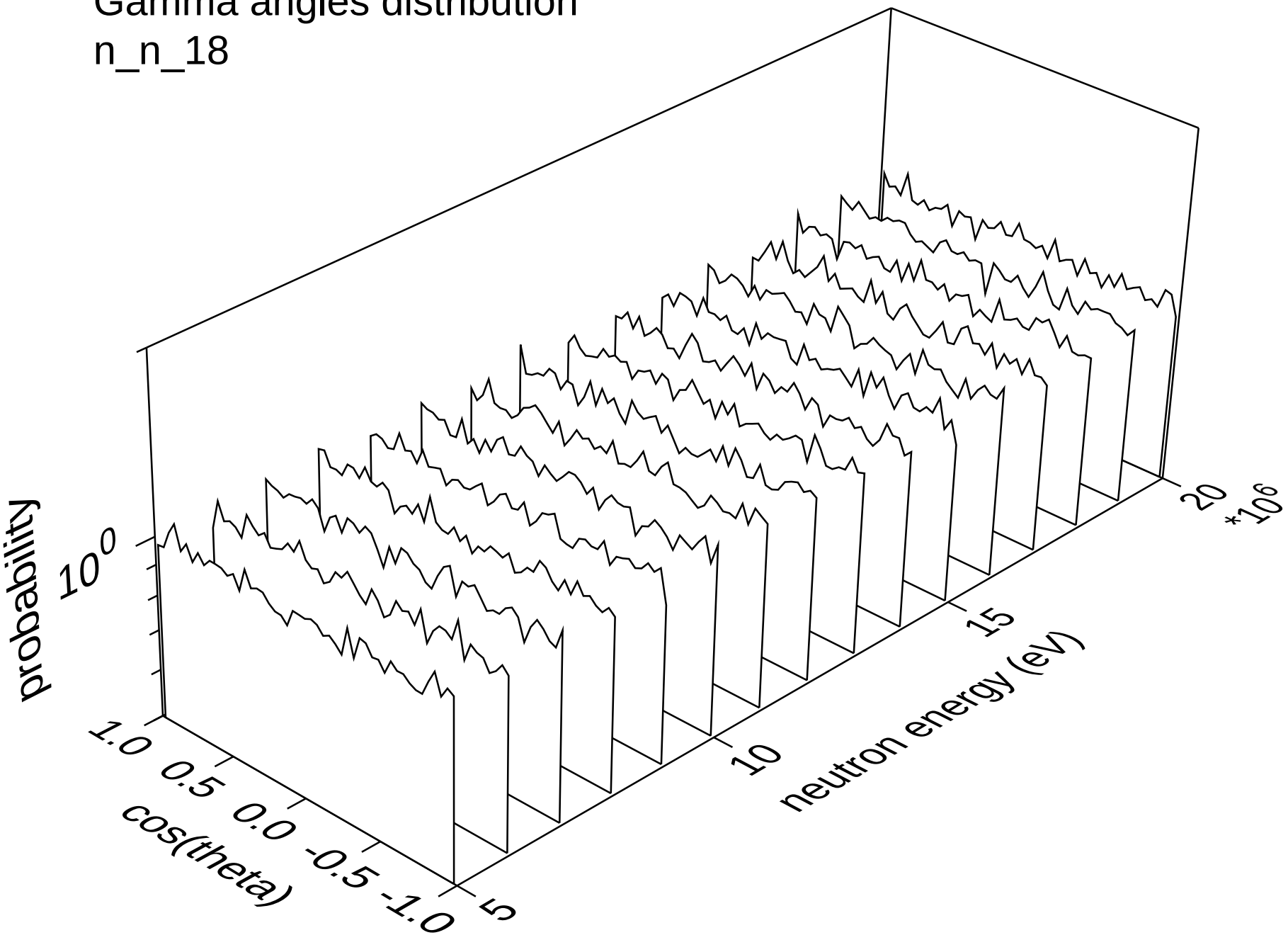

Gamma energy distribution
n_n_17
probability
0
20
40
60
gamma energy (MeV)
5
10
15
20
neutron energy (eV)
10
15
20
*10^6


Gamma angles distribution
n_n_17
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

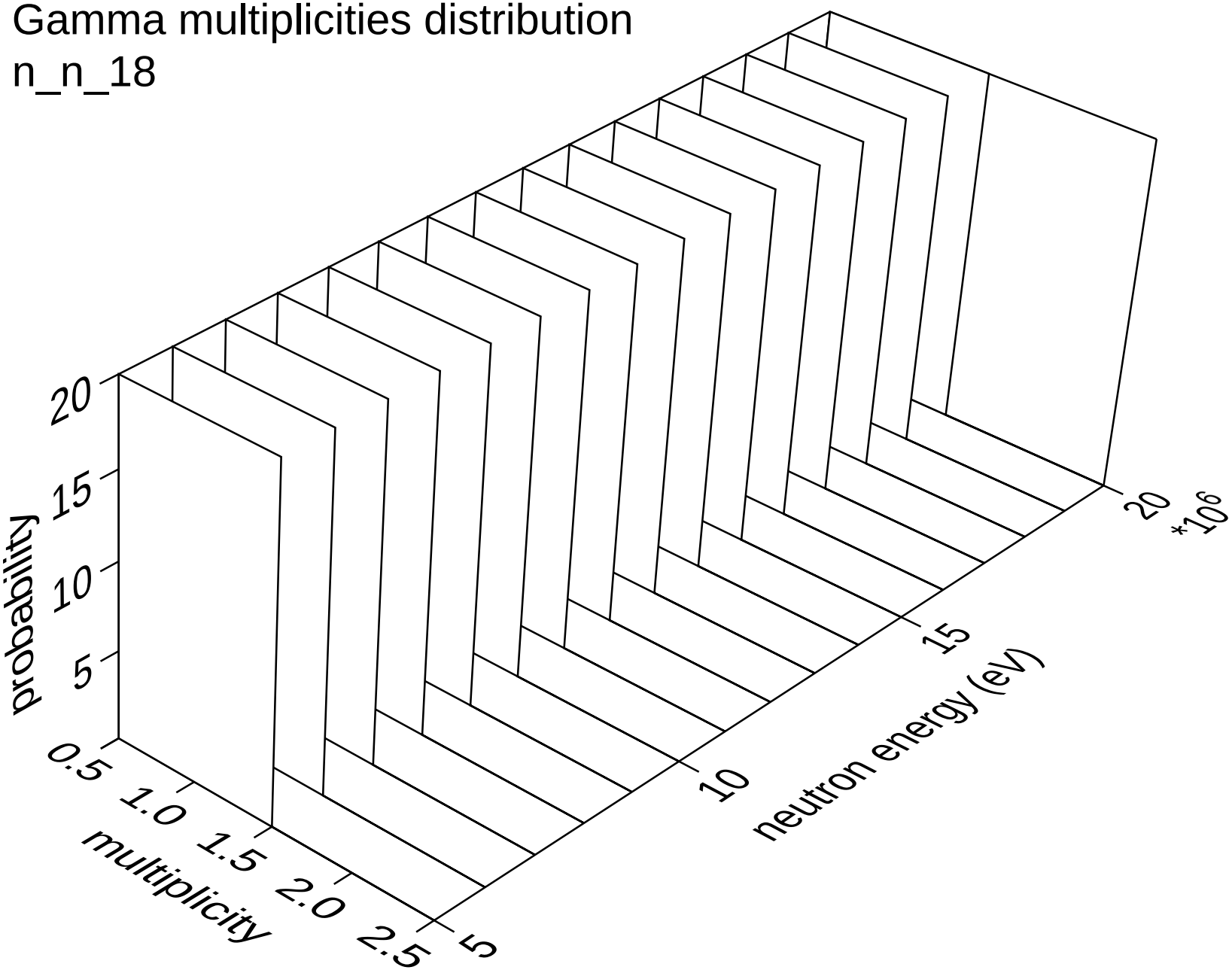
Gamma multiplicities distribution
n_n_17

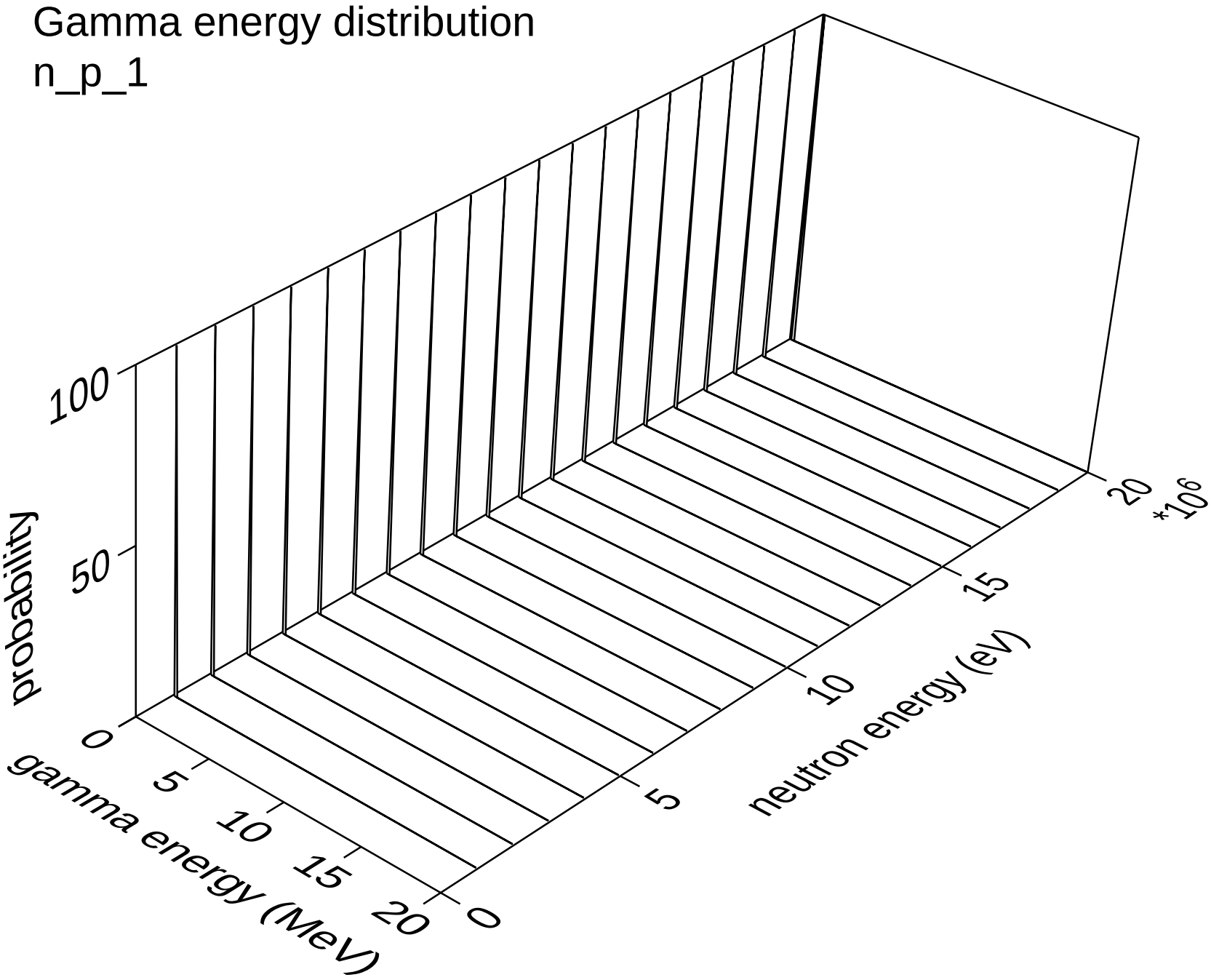


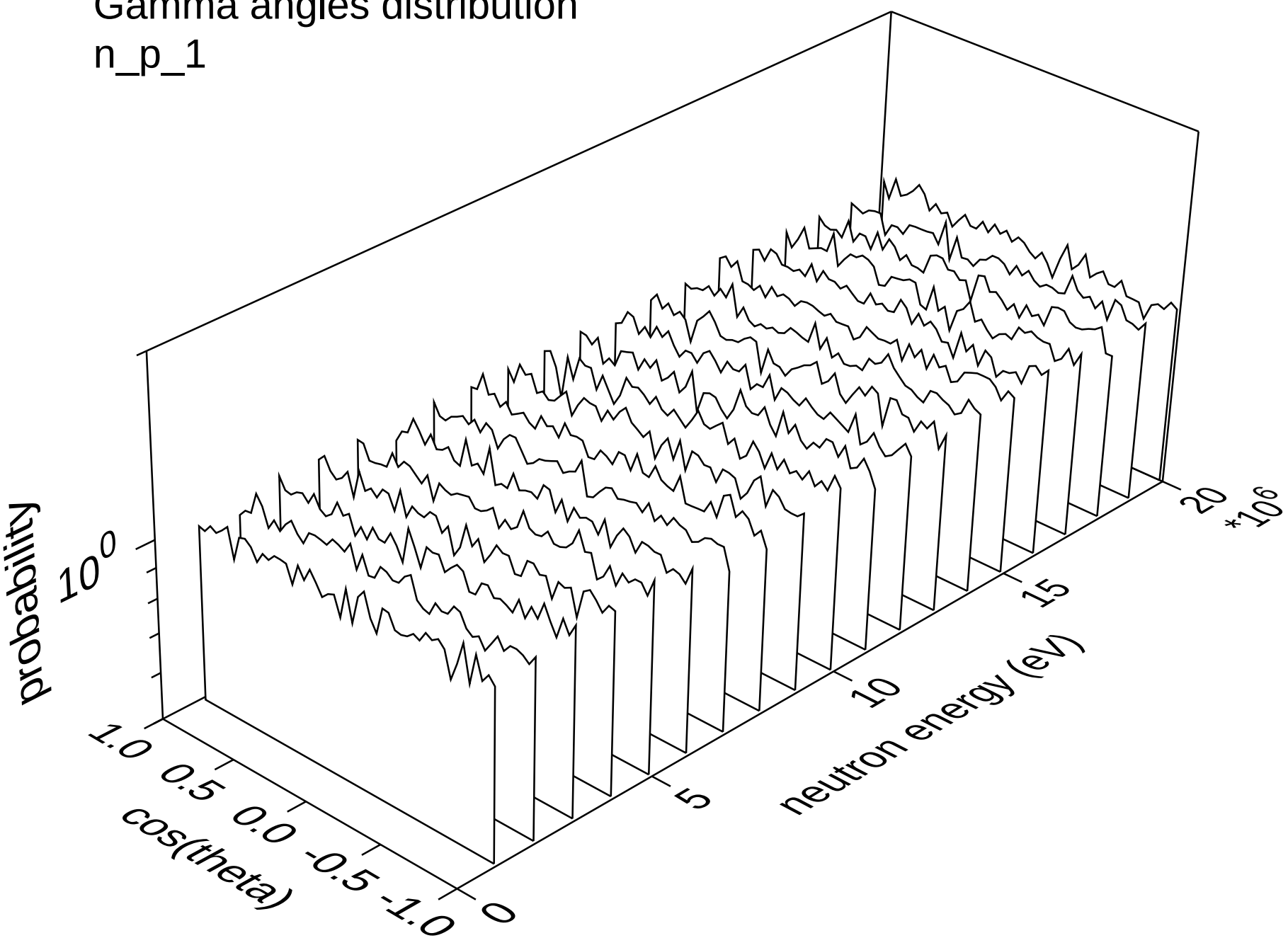

Gamma energy distribution
n_n_18
probability
100
50
0
gamma energy (MeV)
5
10
15
20
5
neutron energy (eV)
10
15
20
*10^6


Gamma angles distribution
n_n_18
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

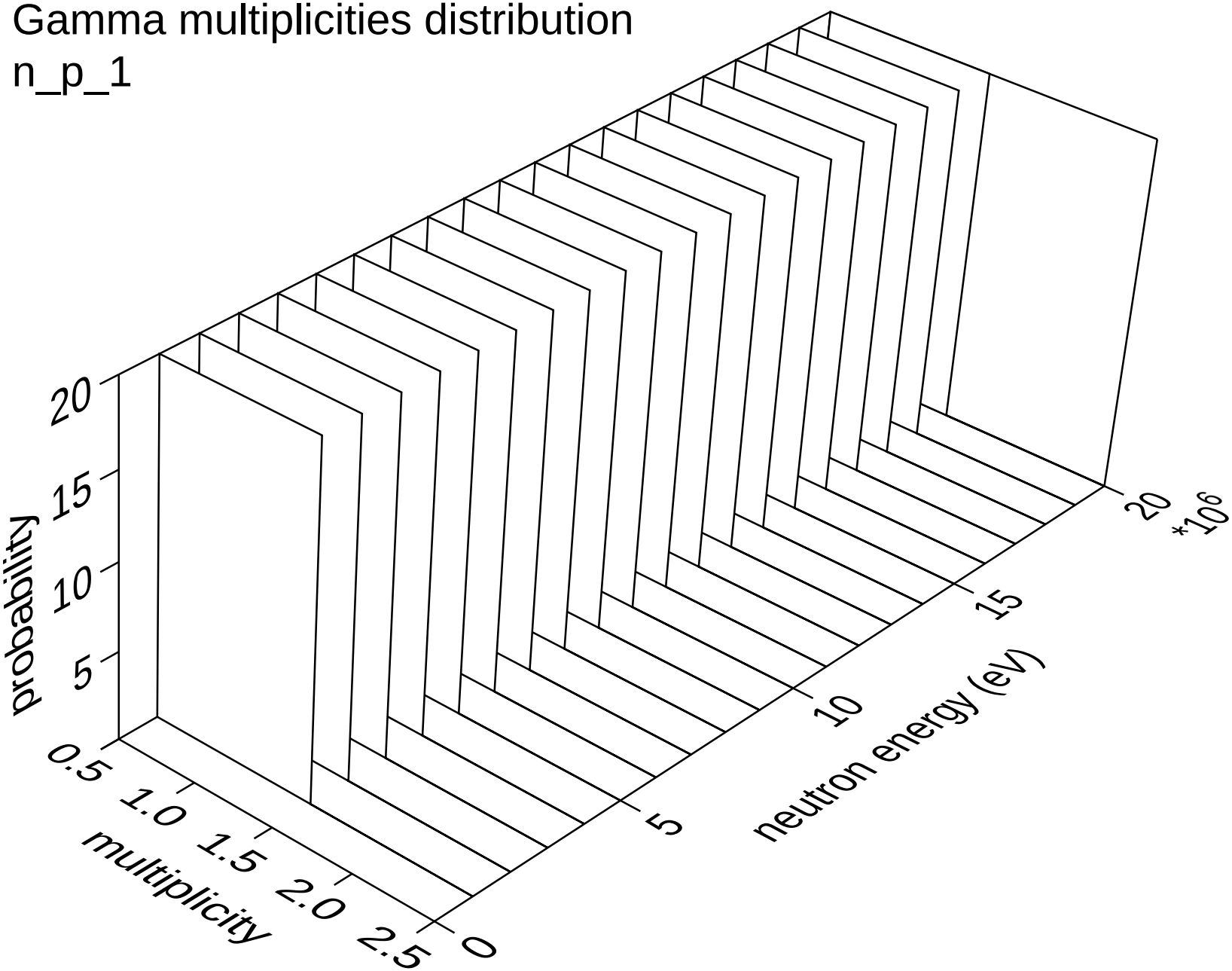
Gamma multiplicities distribution
n_n_18

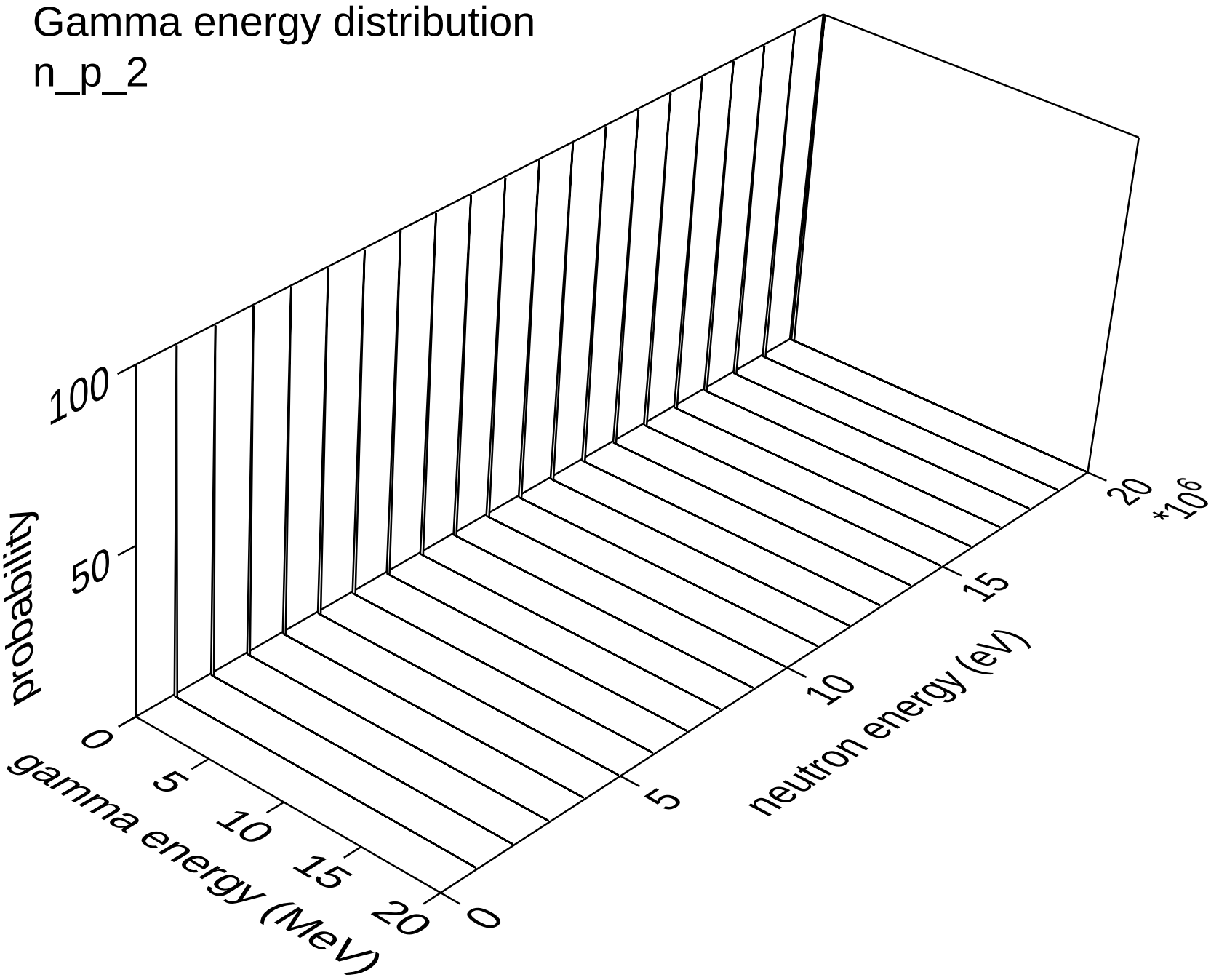


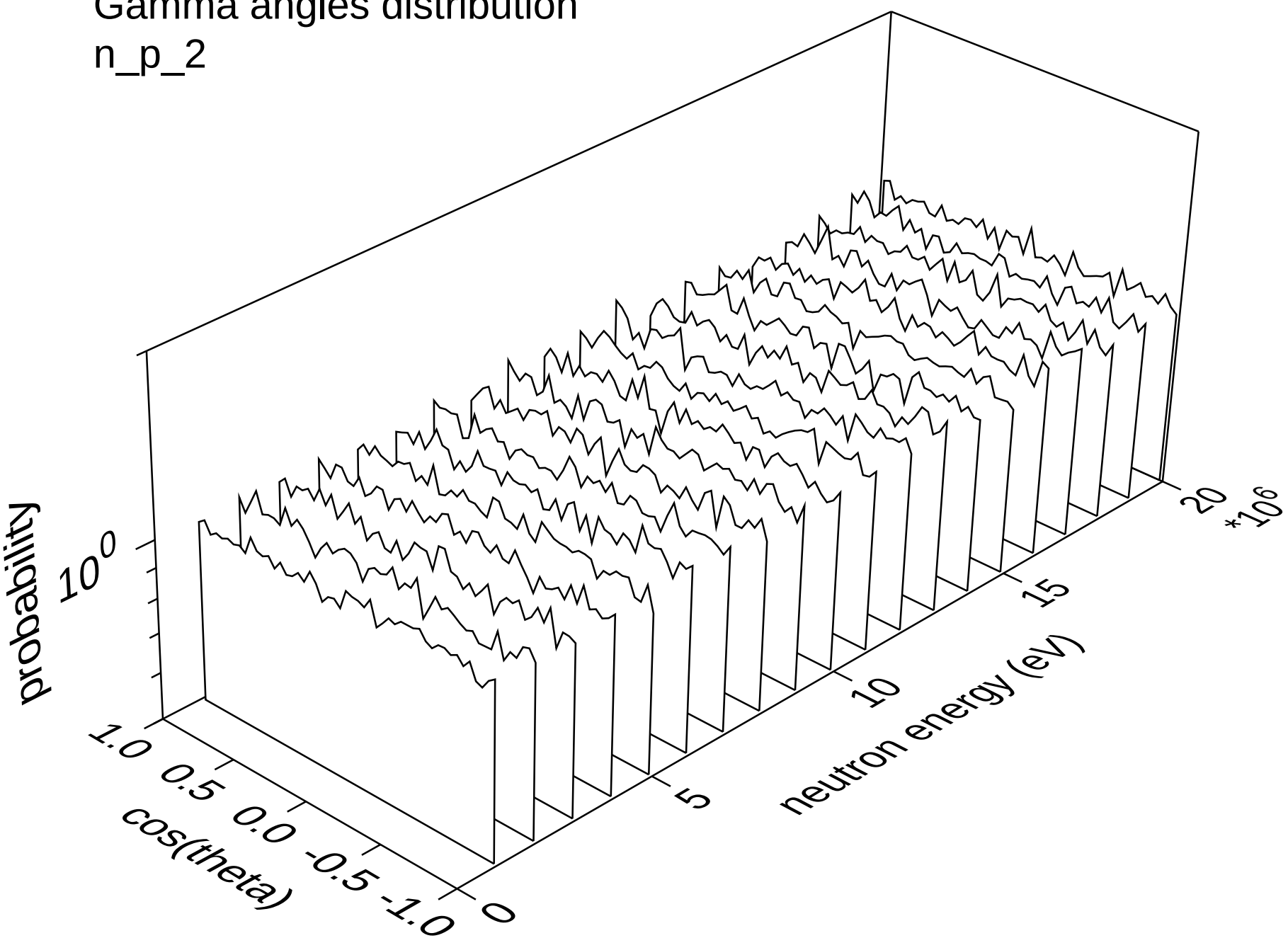

Gamma energy distribution
n_p_1
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_p_1
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

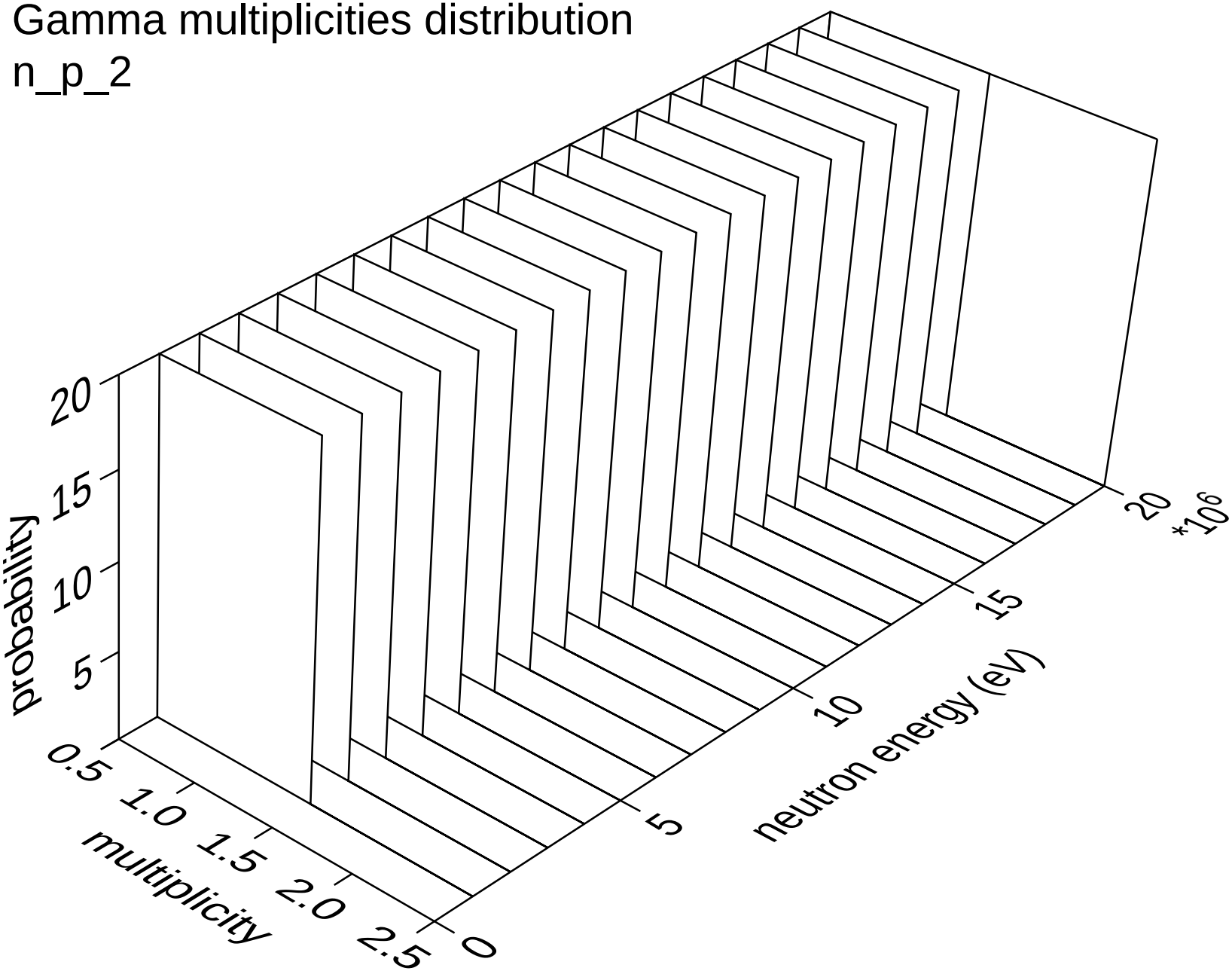
Gamma multiplicities distribution
n_p_1

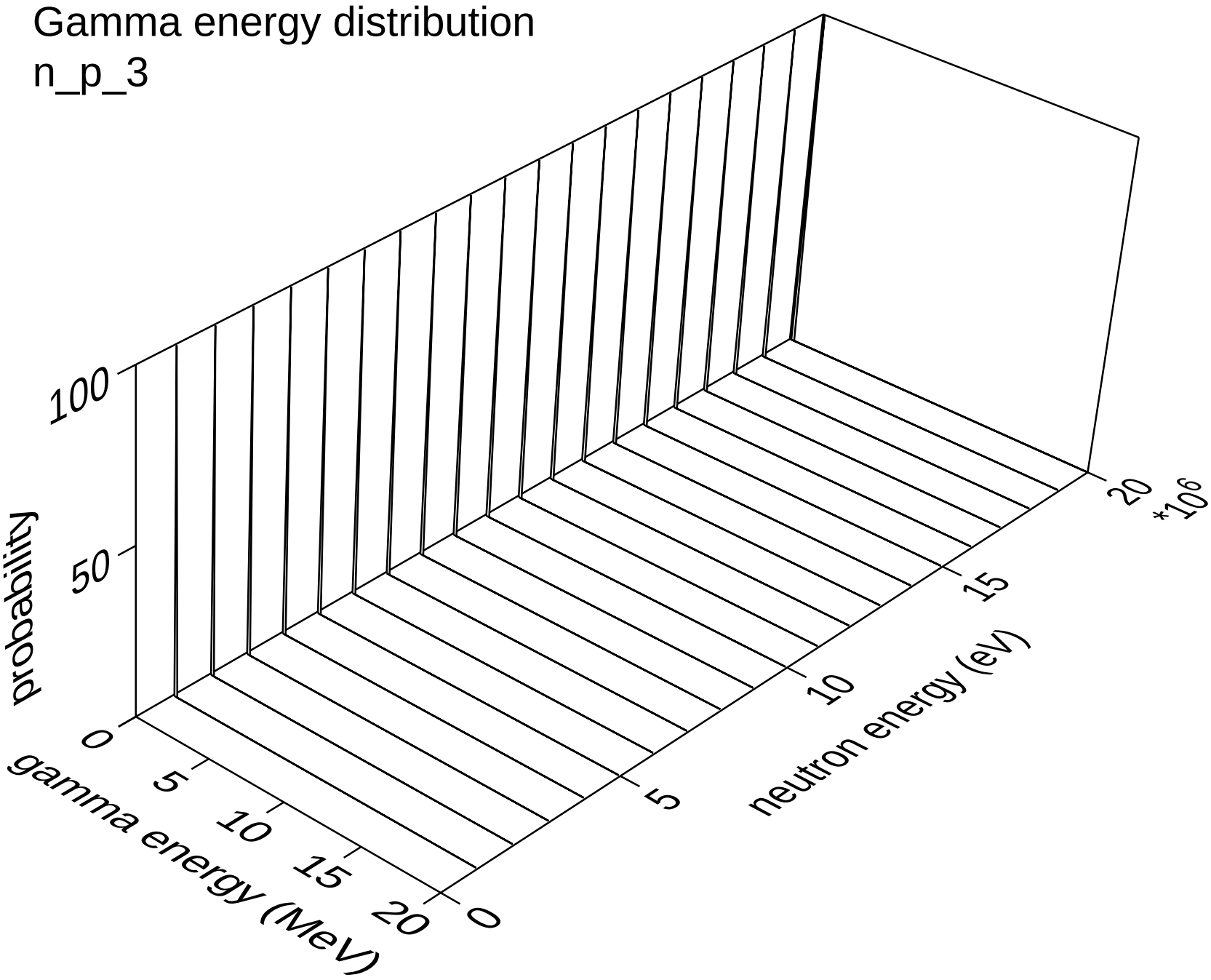


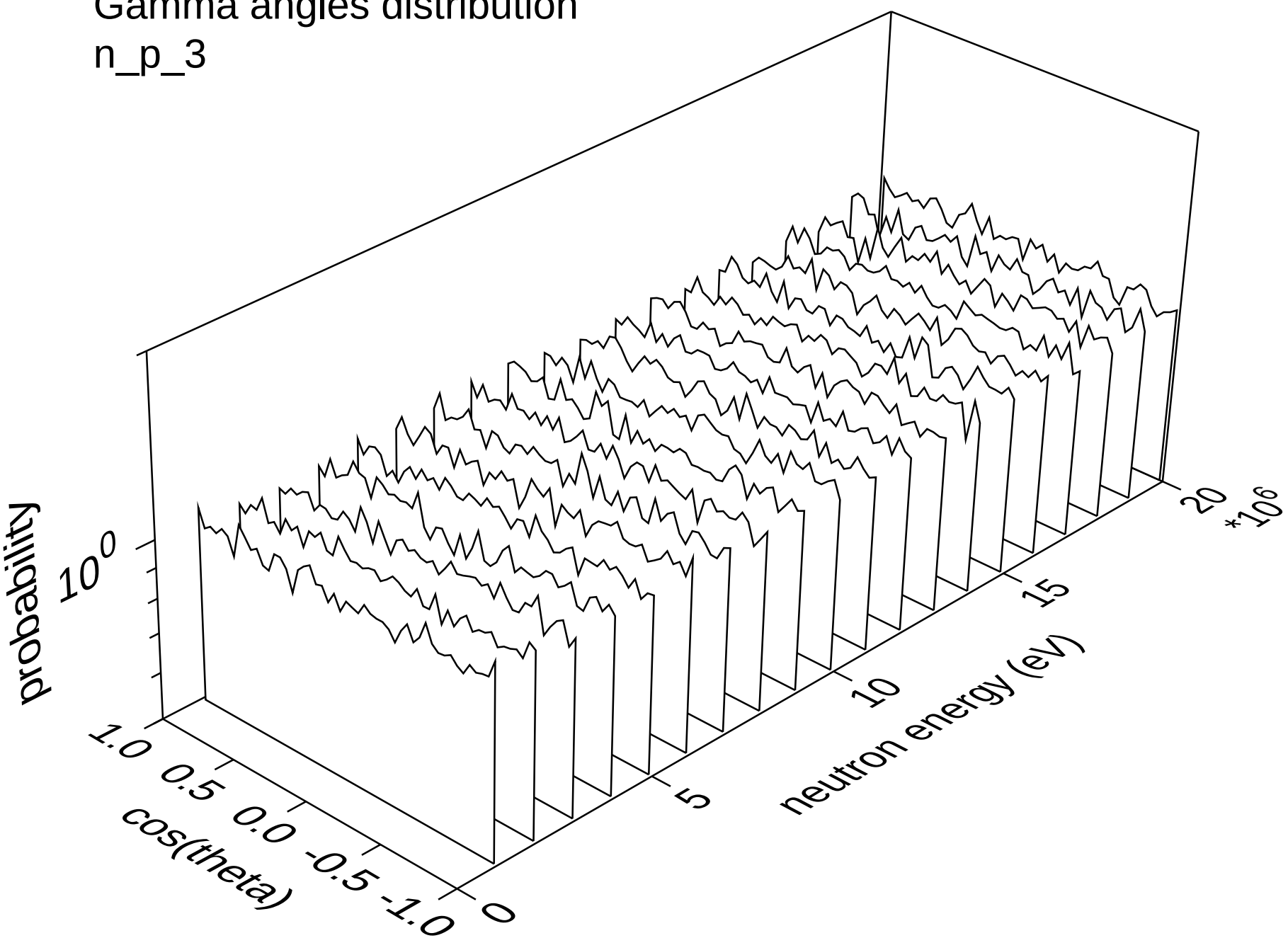

Gamma energy distribution
n_p_2
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_p_2
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

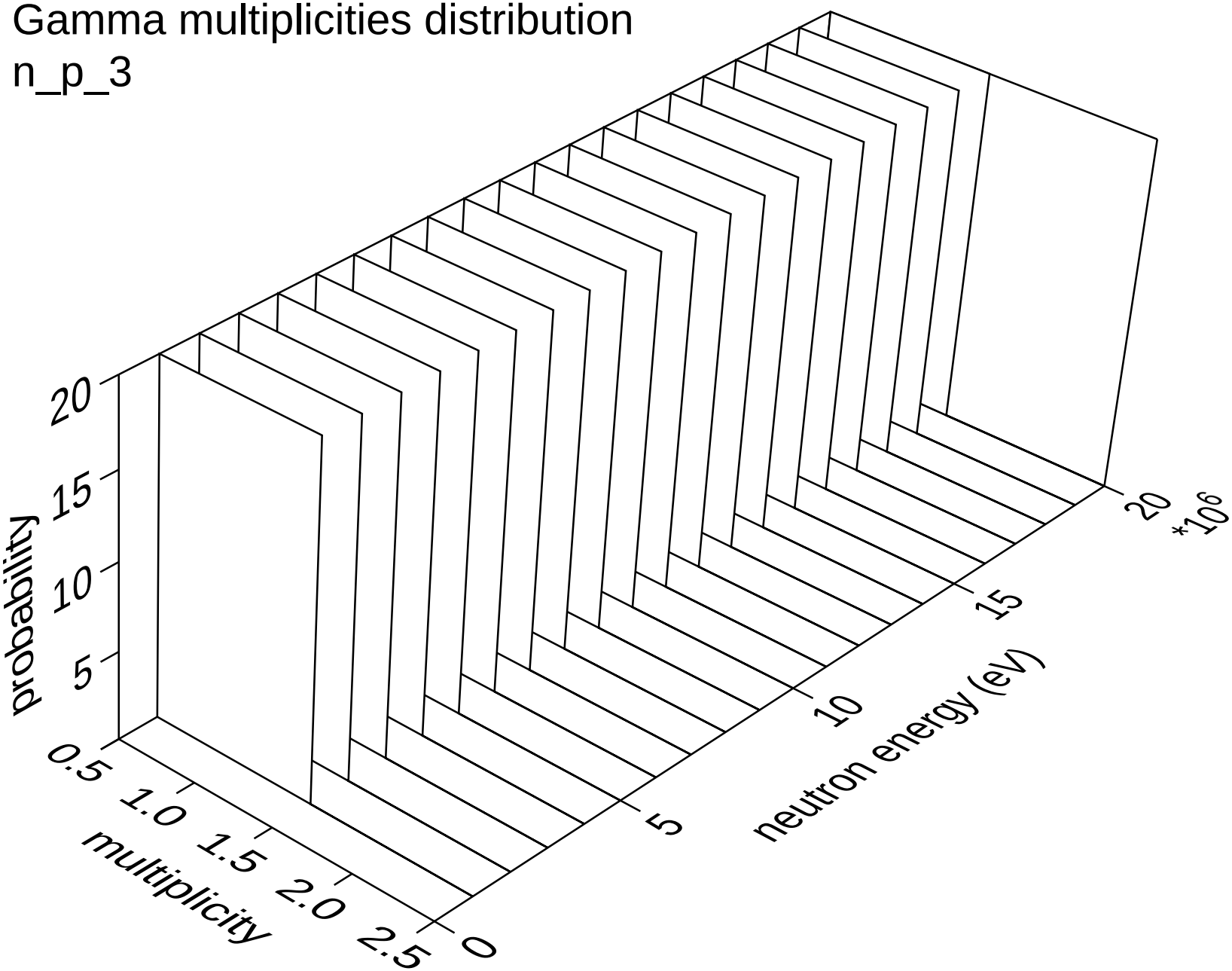
Gamma multiplicities distribution
n_p_2

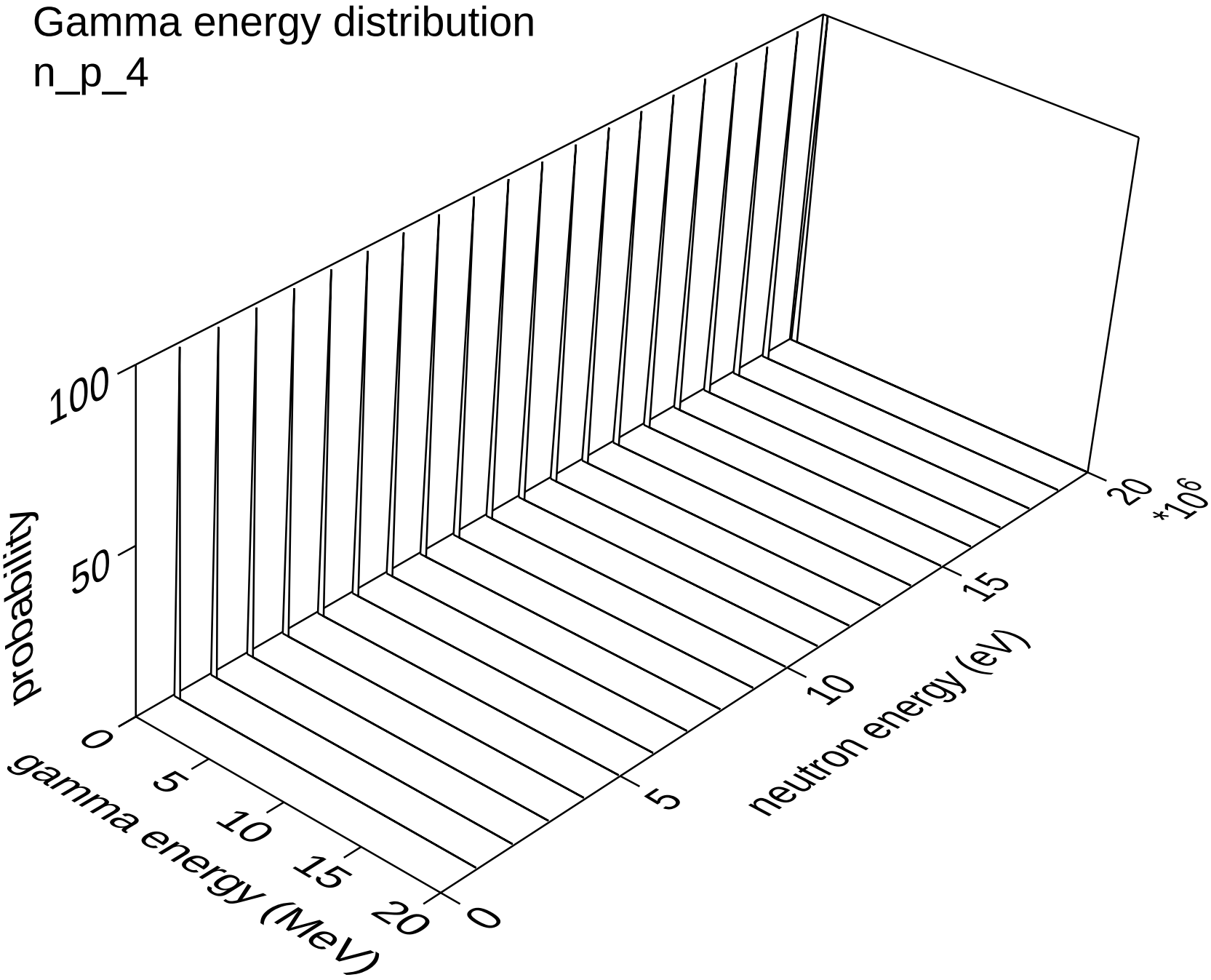


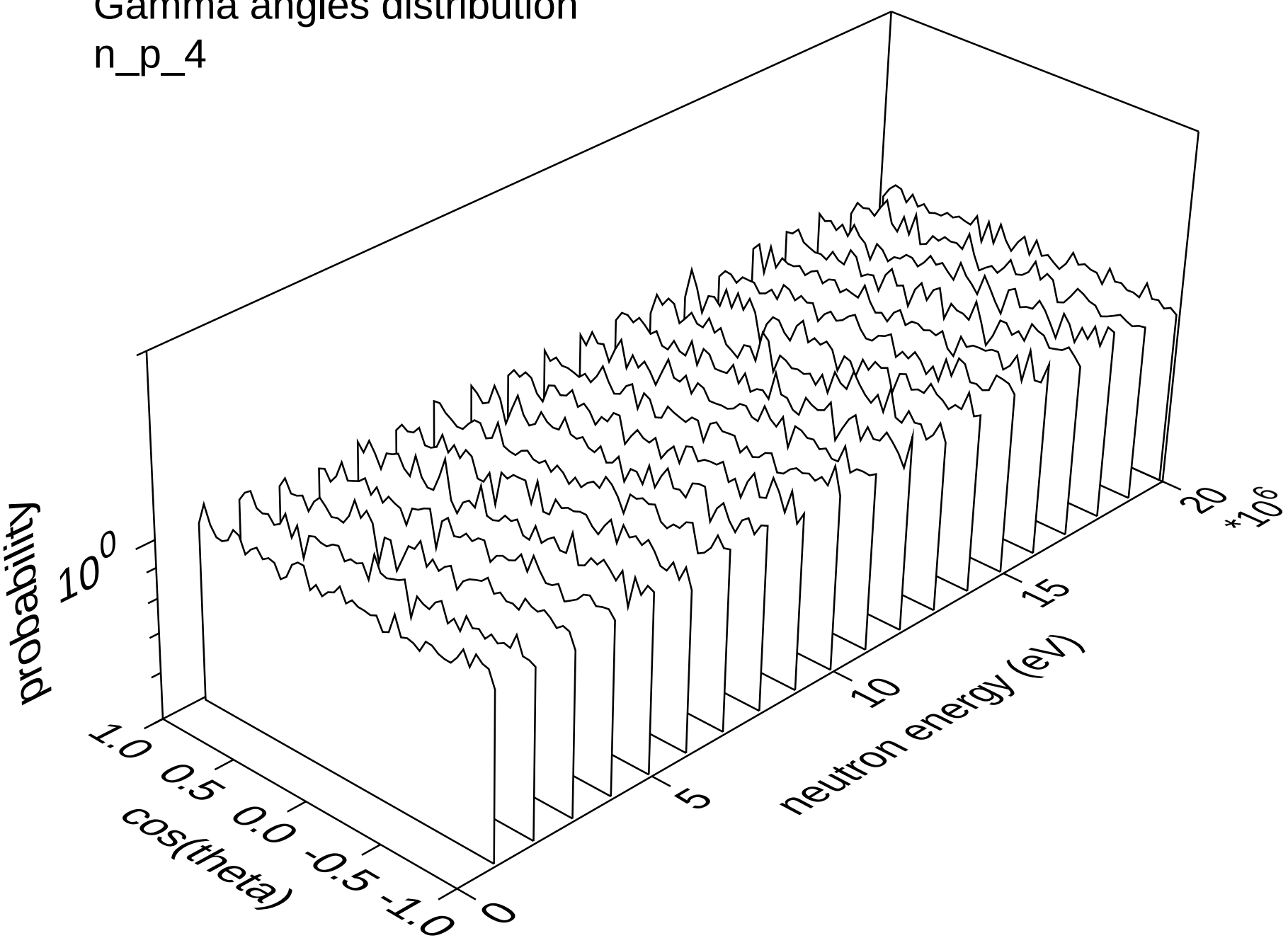

Gamma energy distribution
n_p_3
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_p_3
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

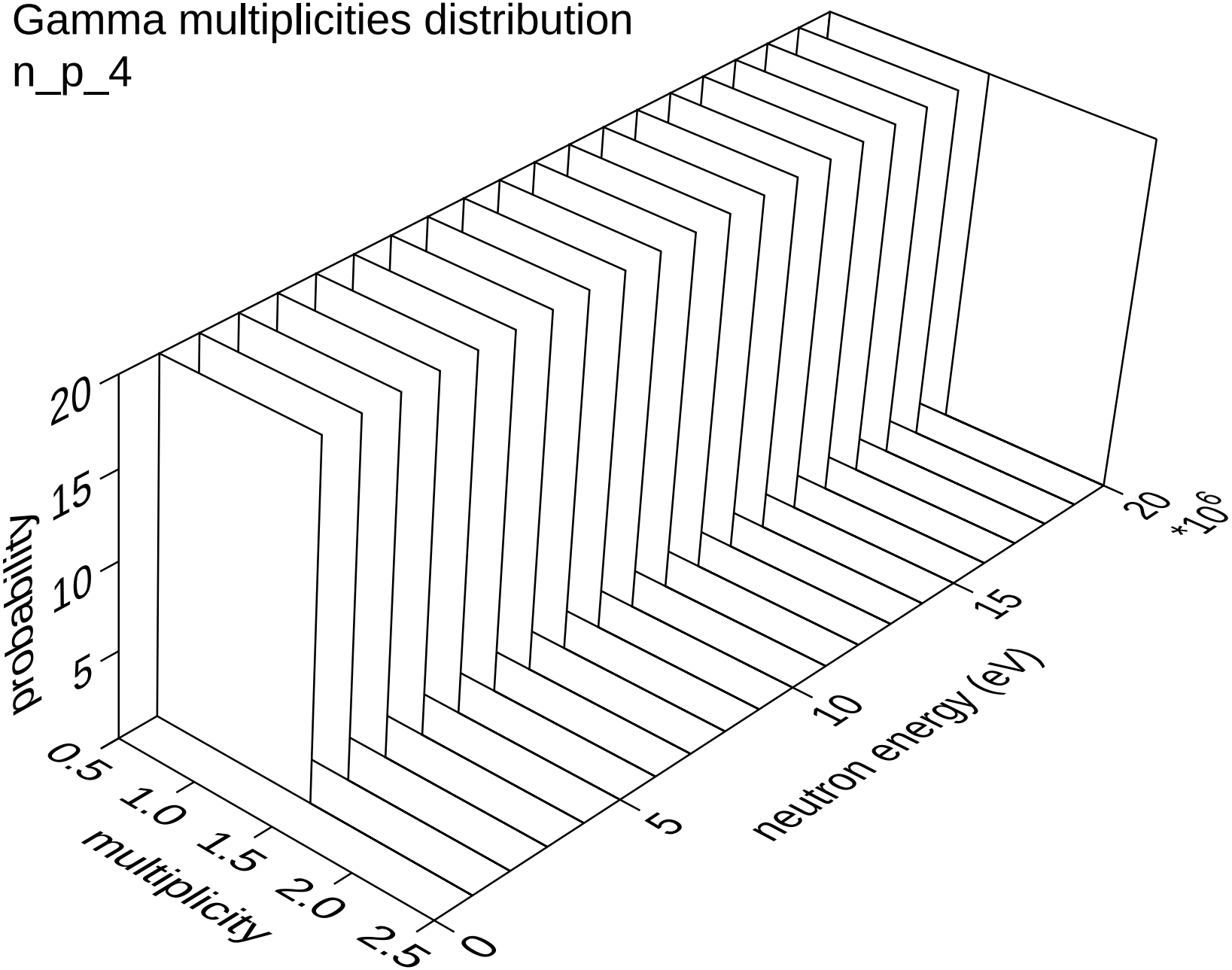
Gamma multiplicities distribution
n_p_3

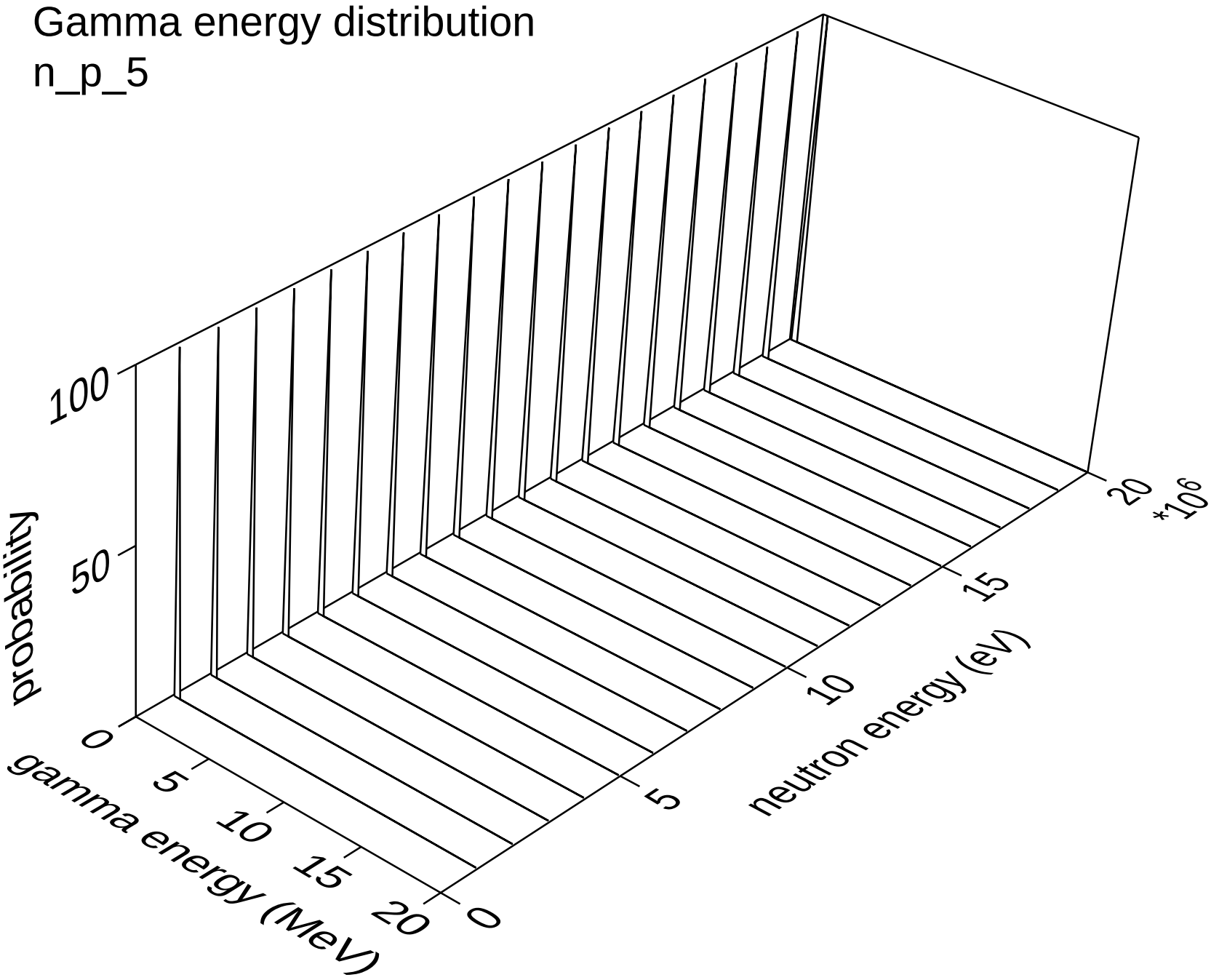


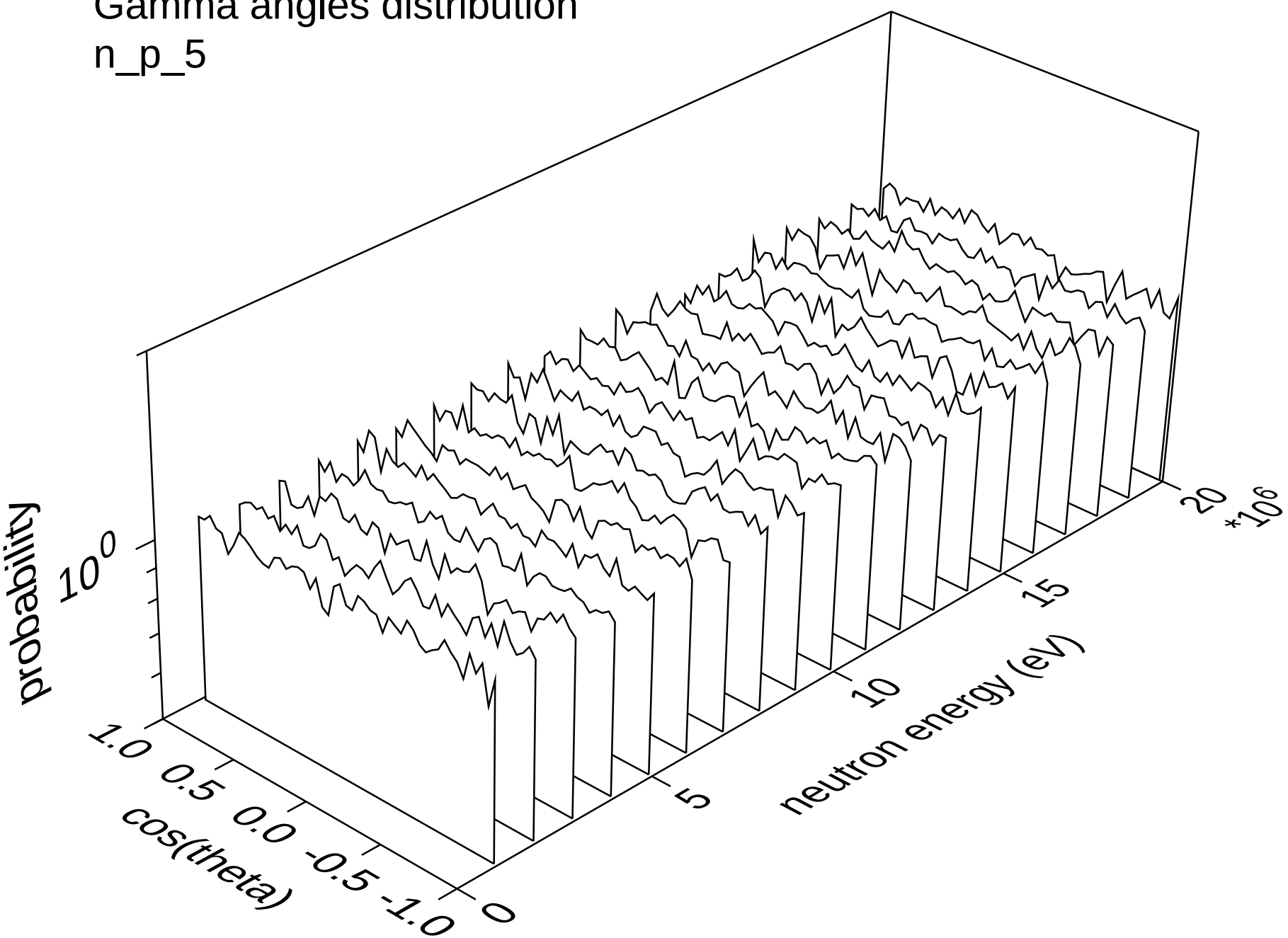

Gamma energy distribution
n_p_4
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_p_4
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

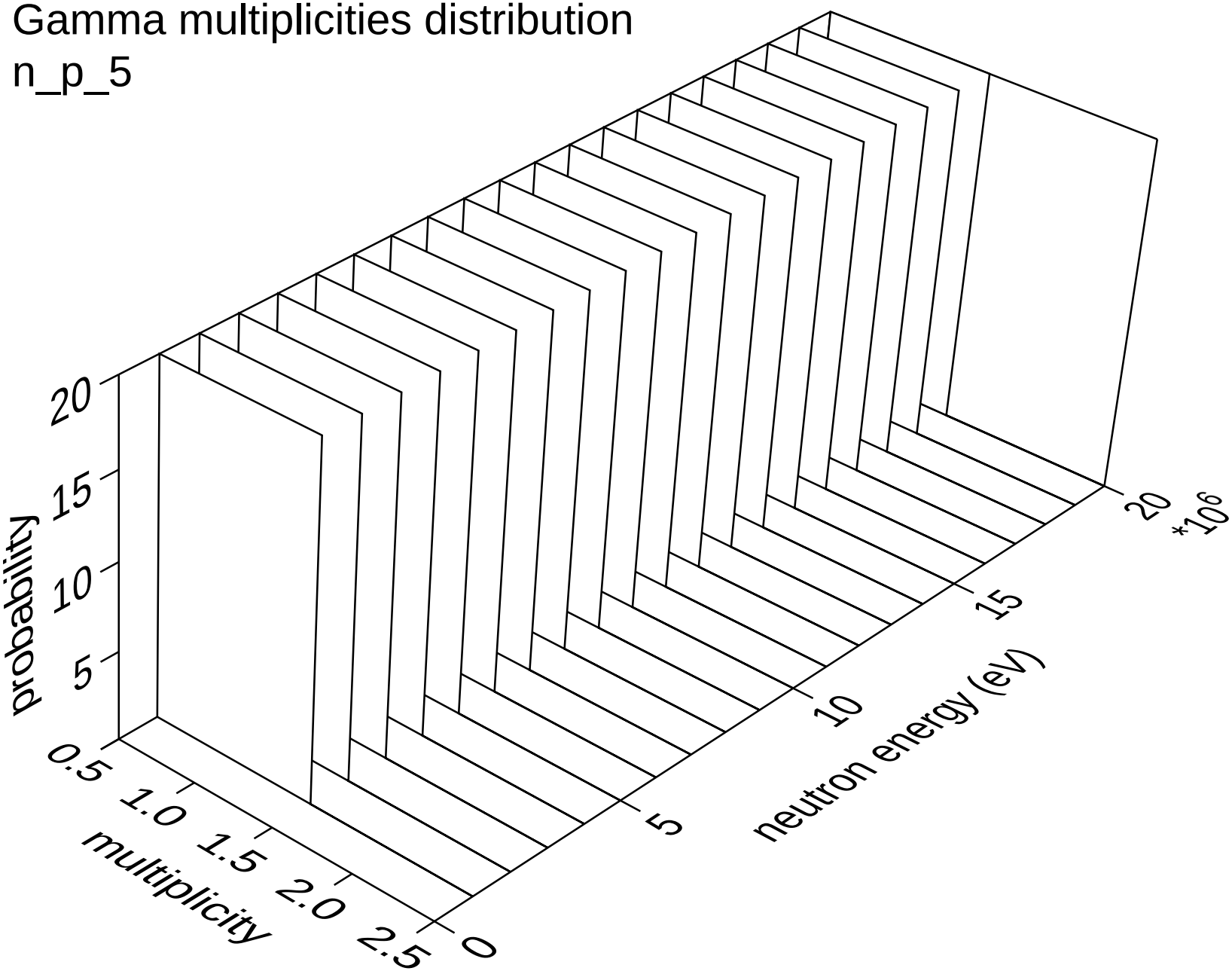
Gamma multiplicities distribution
n_p_4

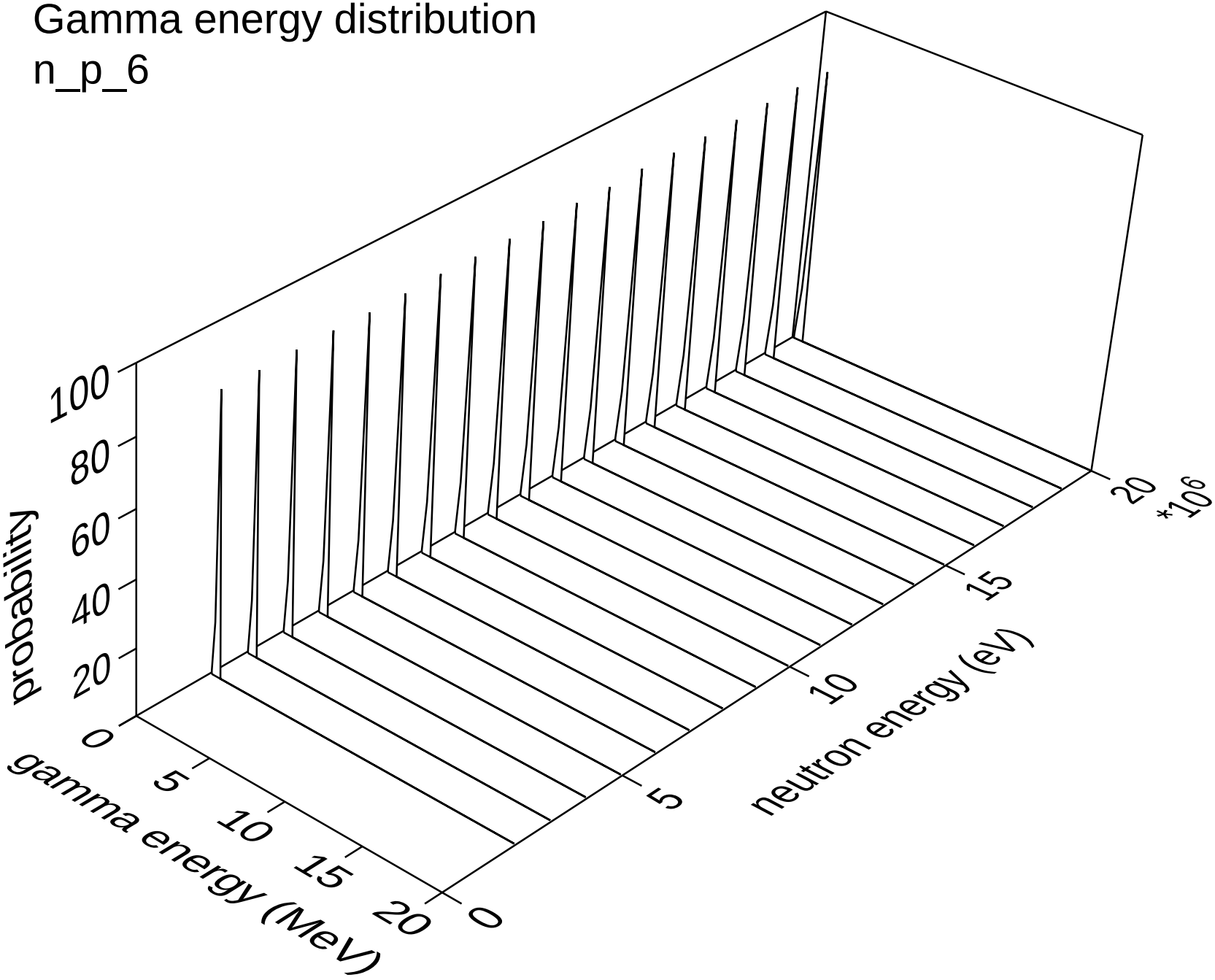


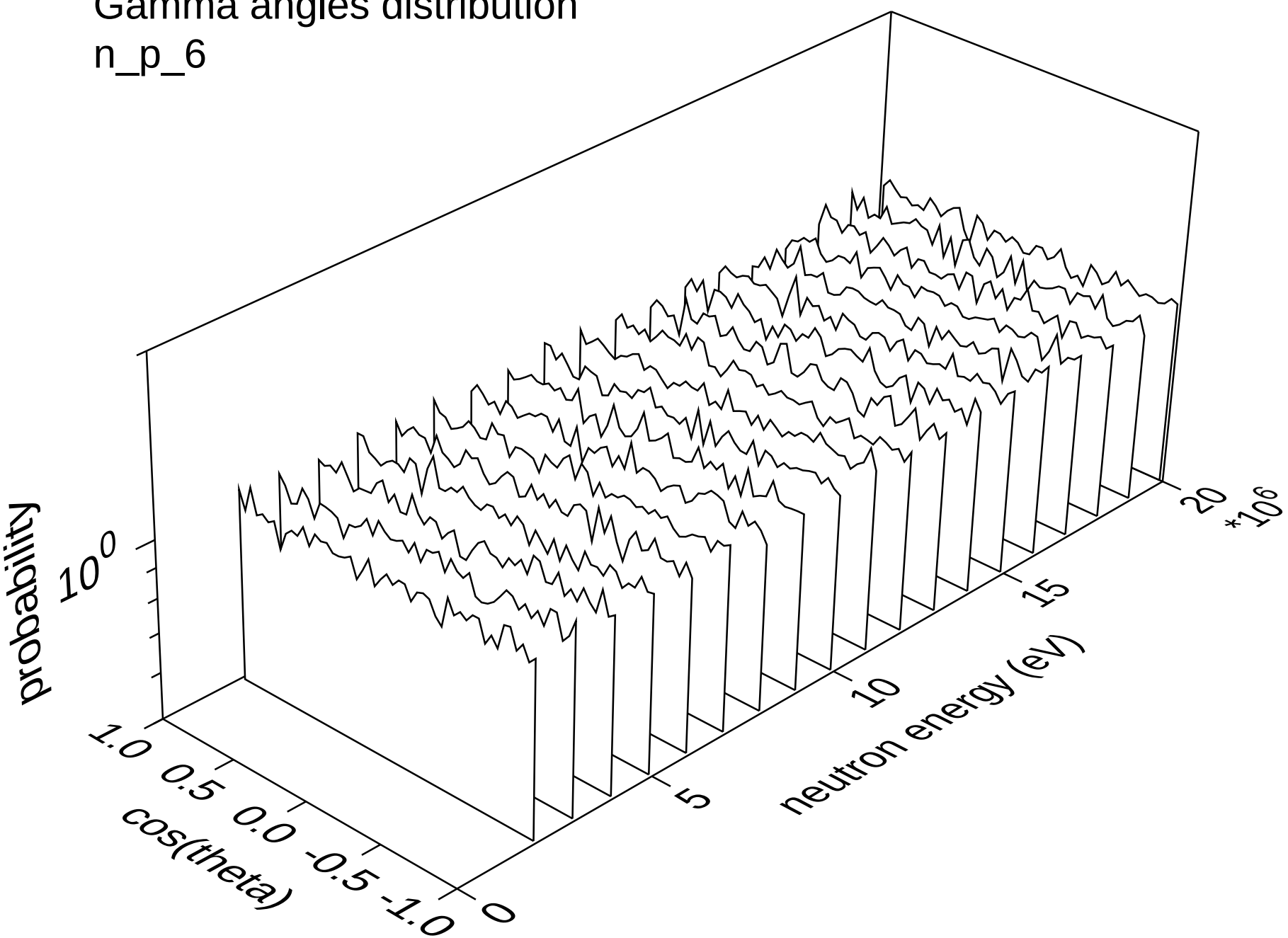

Gamma energy distribution
n_p_5
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_p_5
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

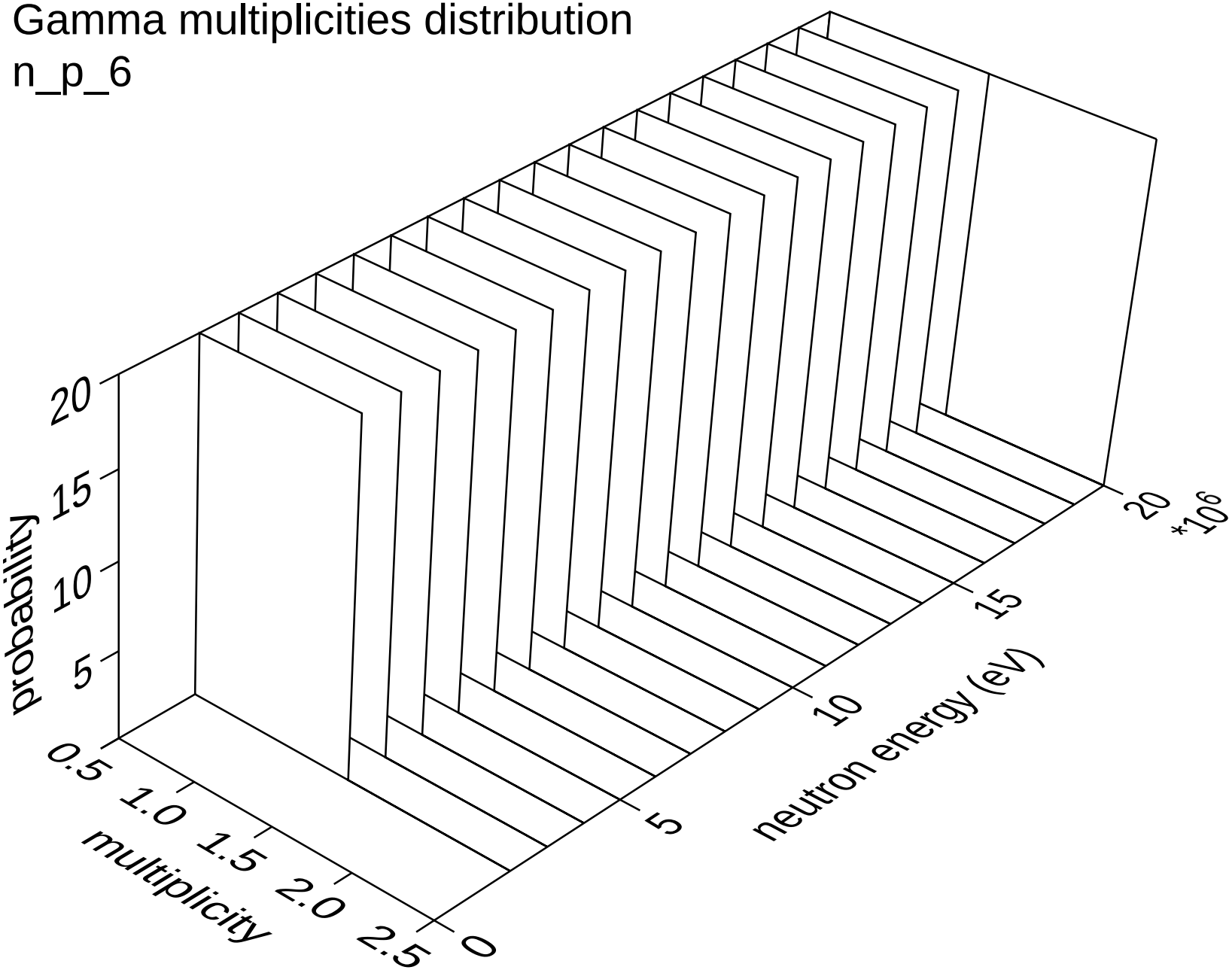
Gamma multiplicities distribution
n_p_5

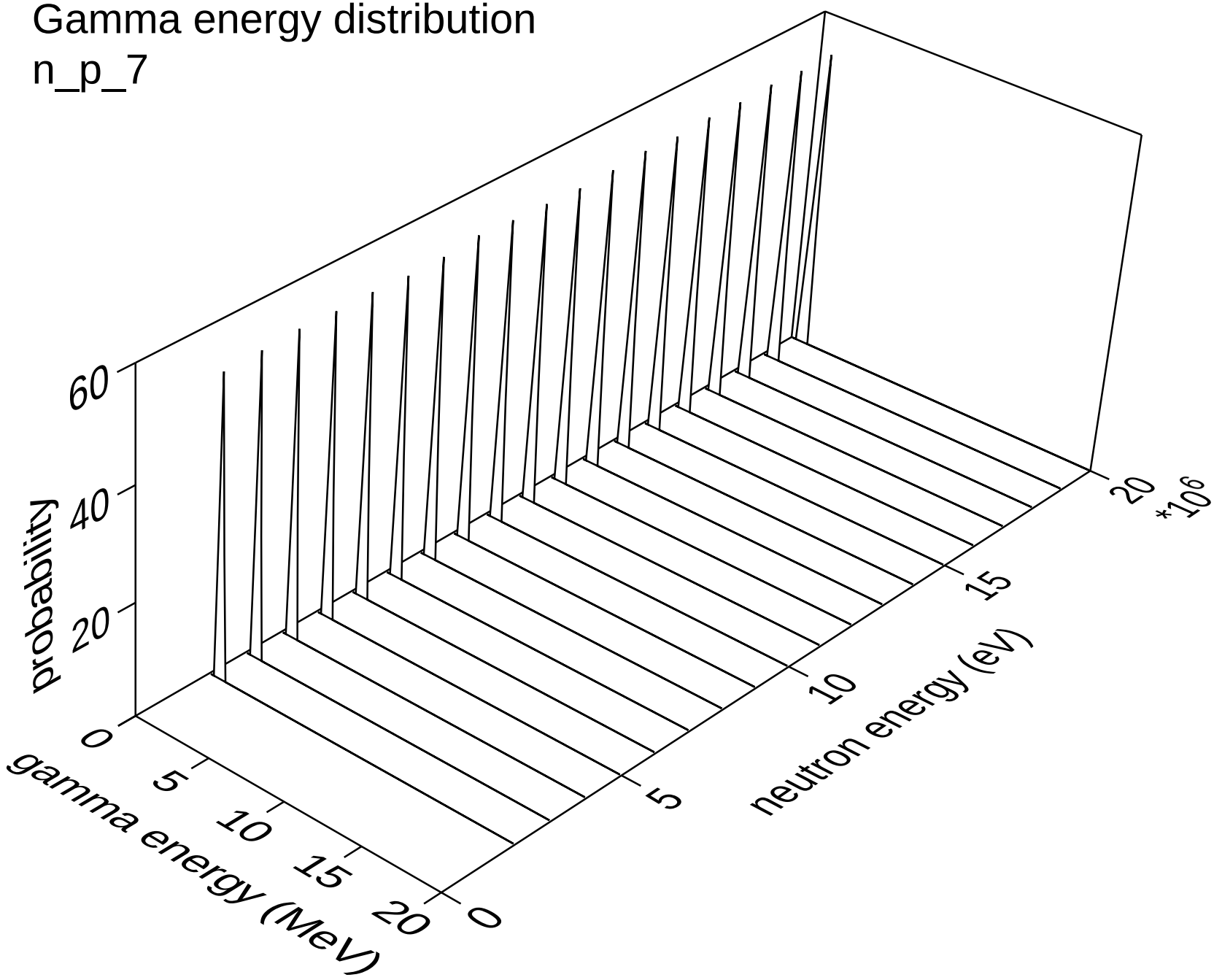


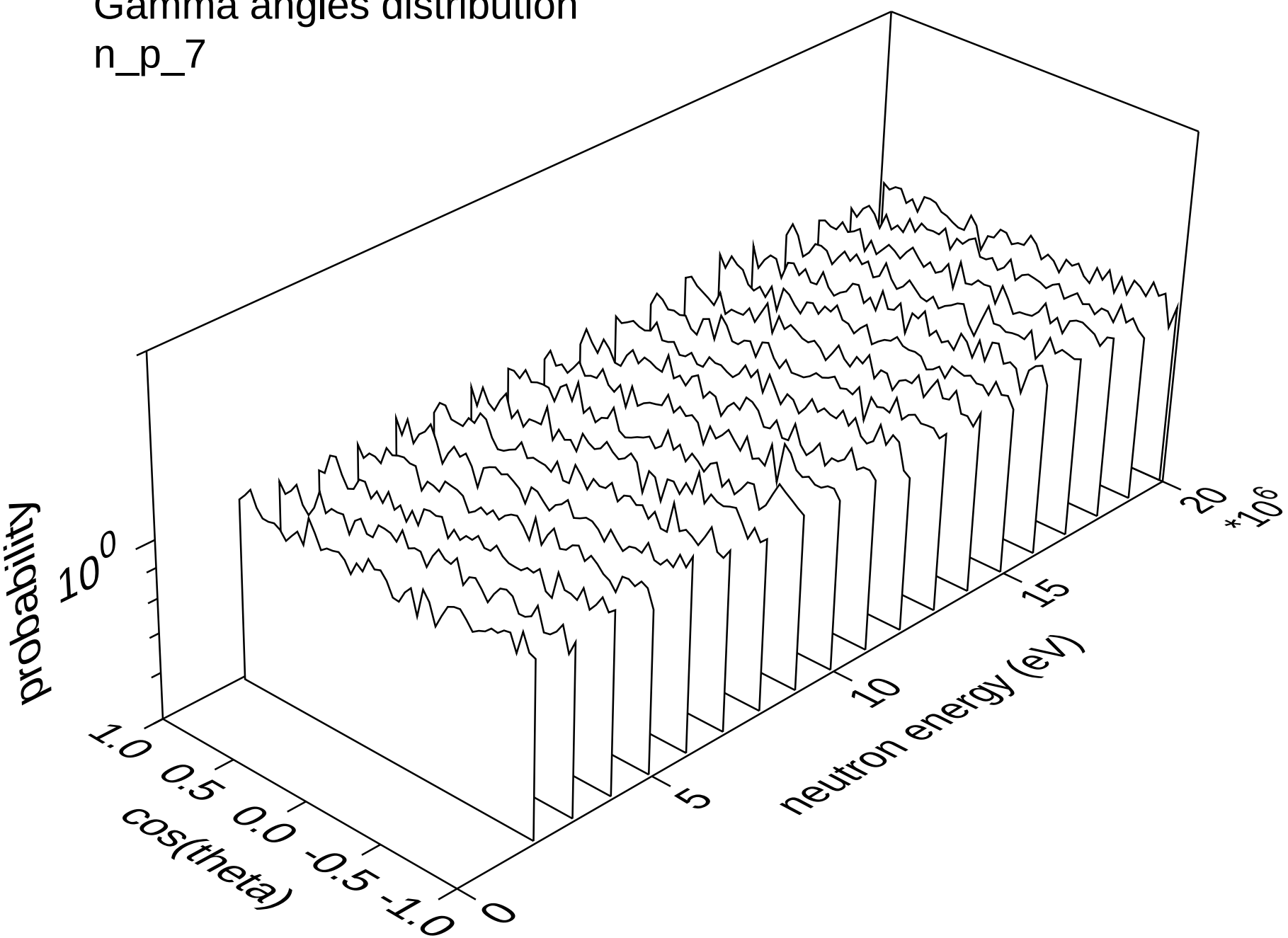

Gamma energy distribution
n_p_6
probability
100
80
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
5
10
15
20
*10^6


Gamma angles distribution
n_p_6
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
neutron energy (eV)
*10^6

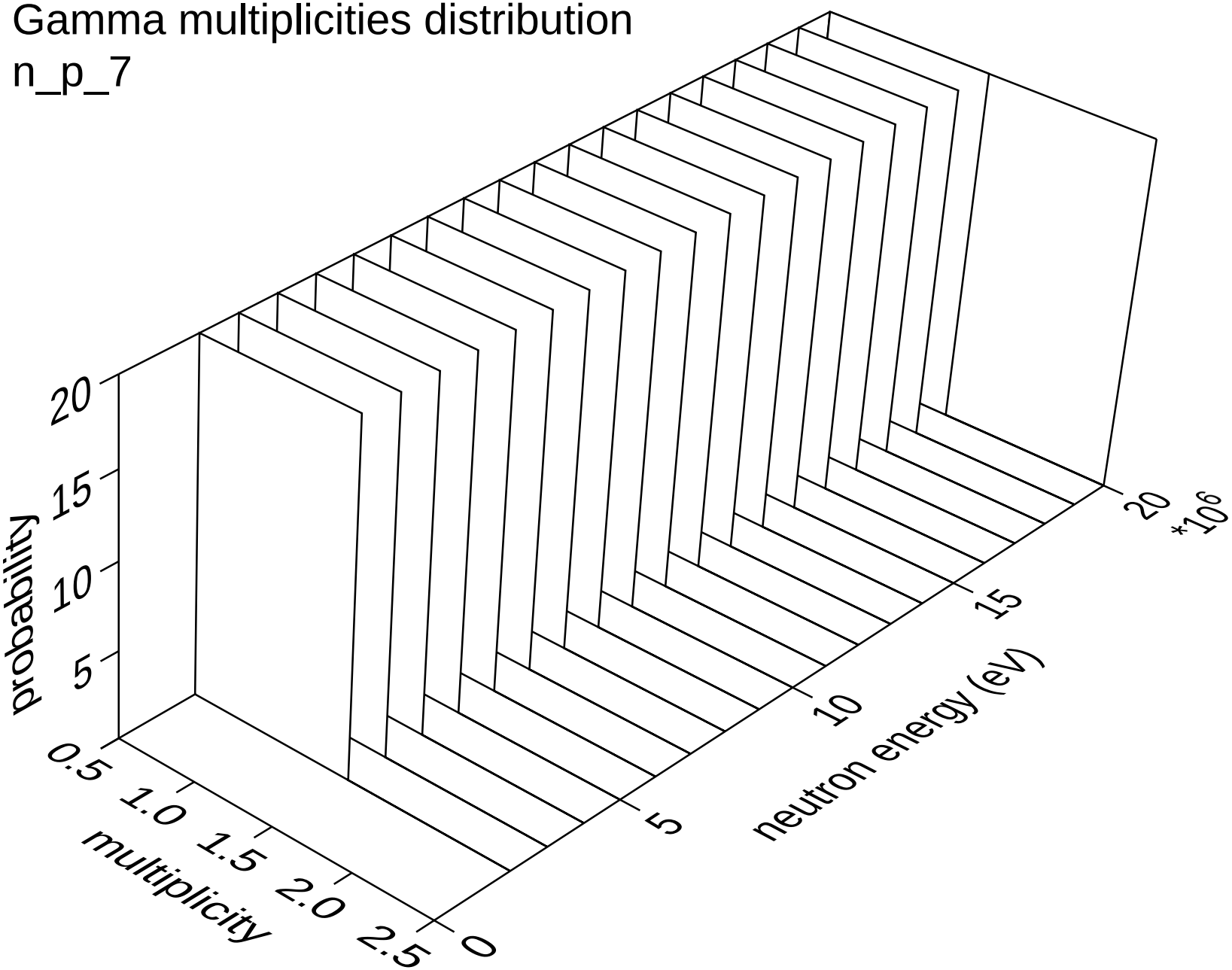
Gamma multiplicities distribution
n_p_6

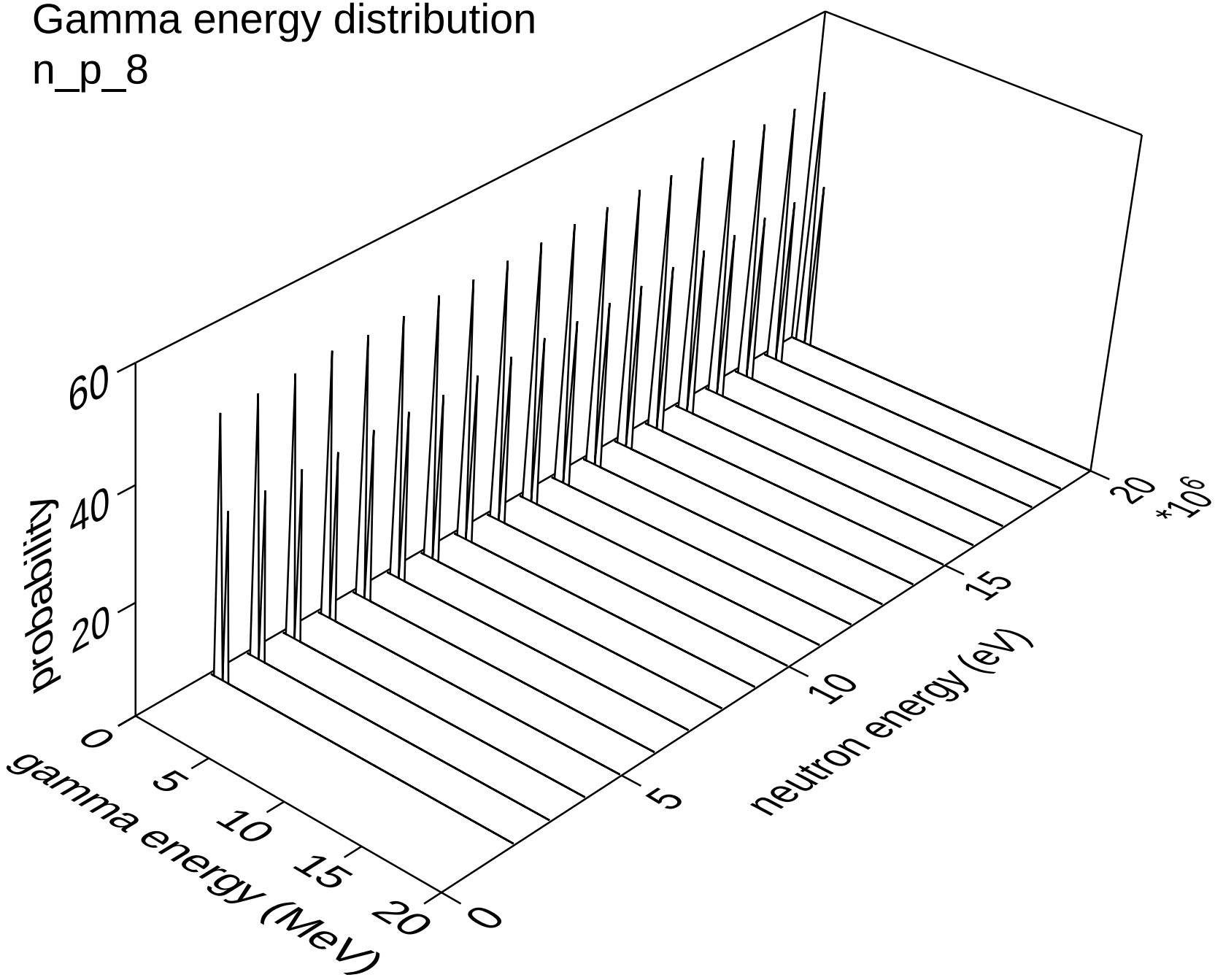


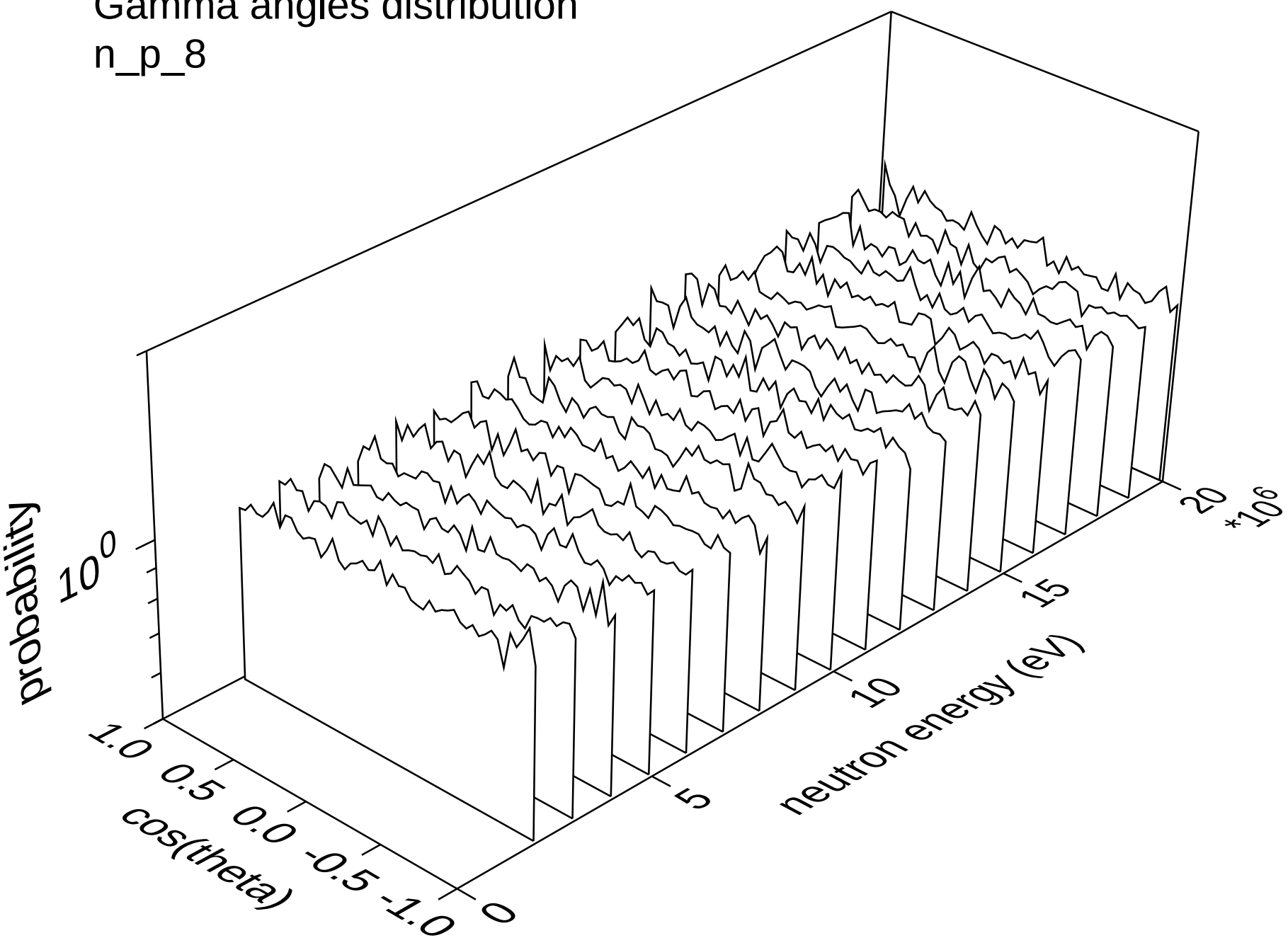

Gamma energy distribution
n_p_7
probability
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_p_7
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

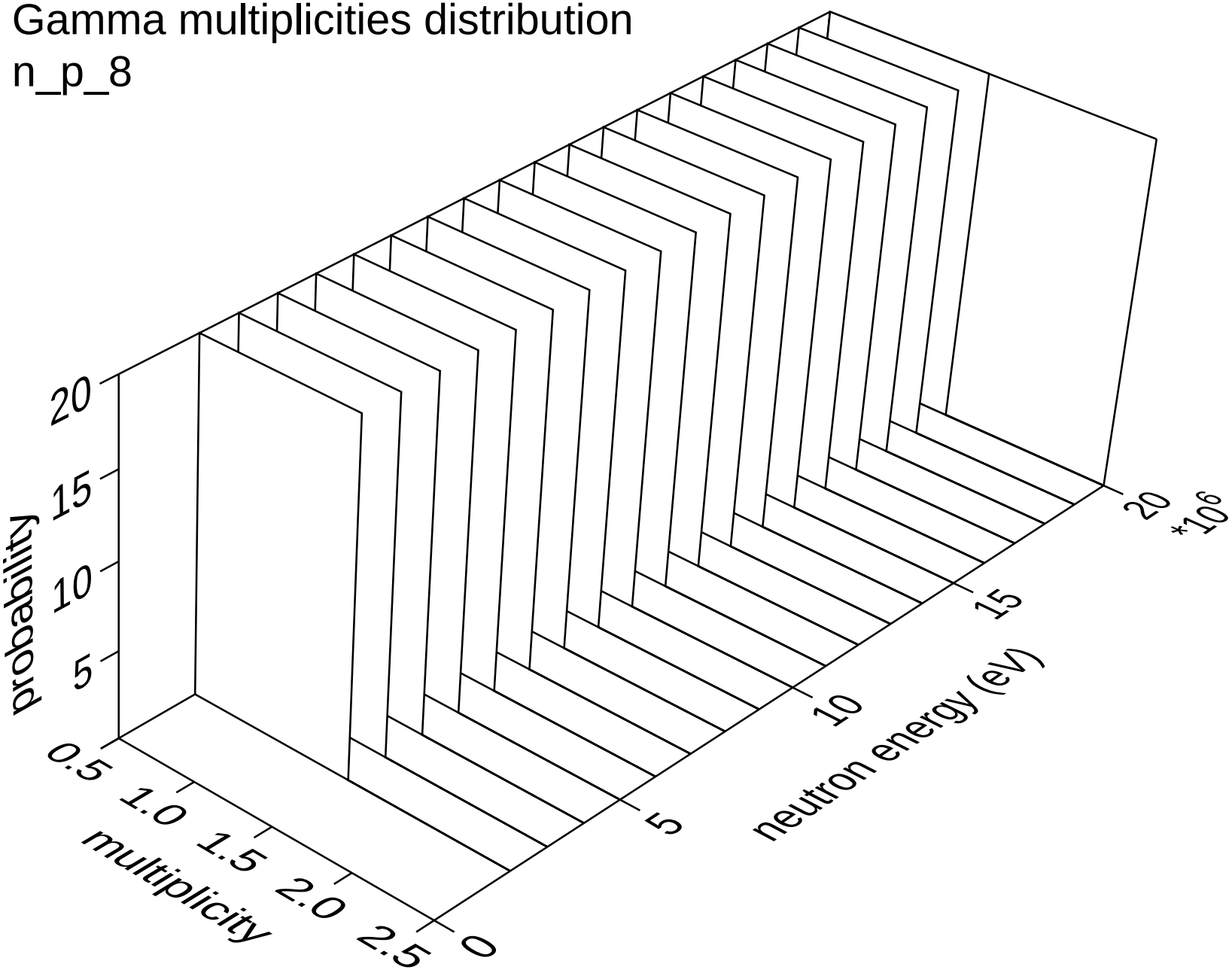
Gamma multiplicities distribution
n_p_7

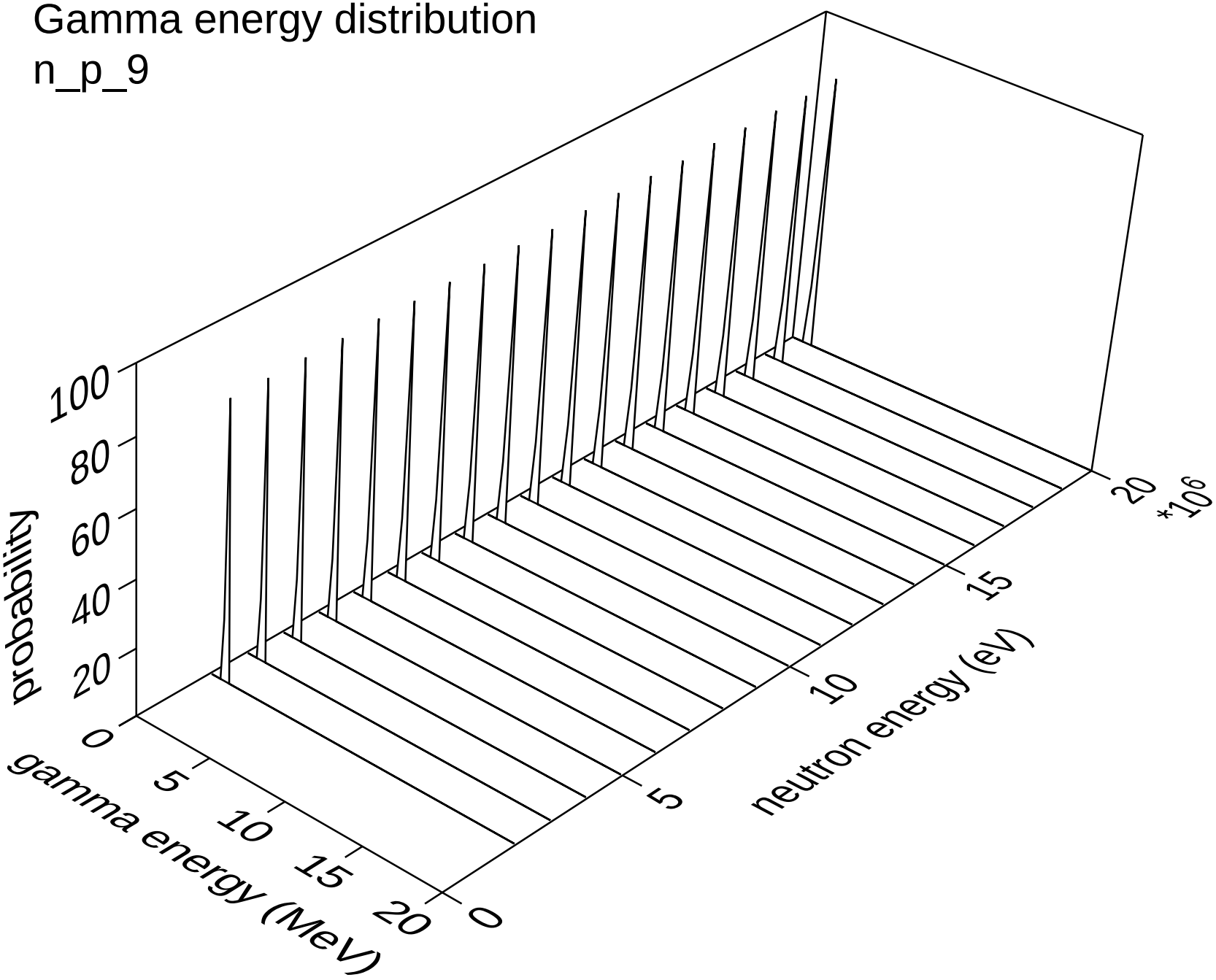


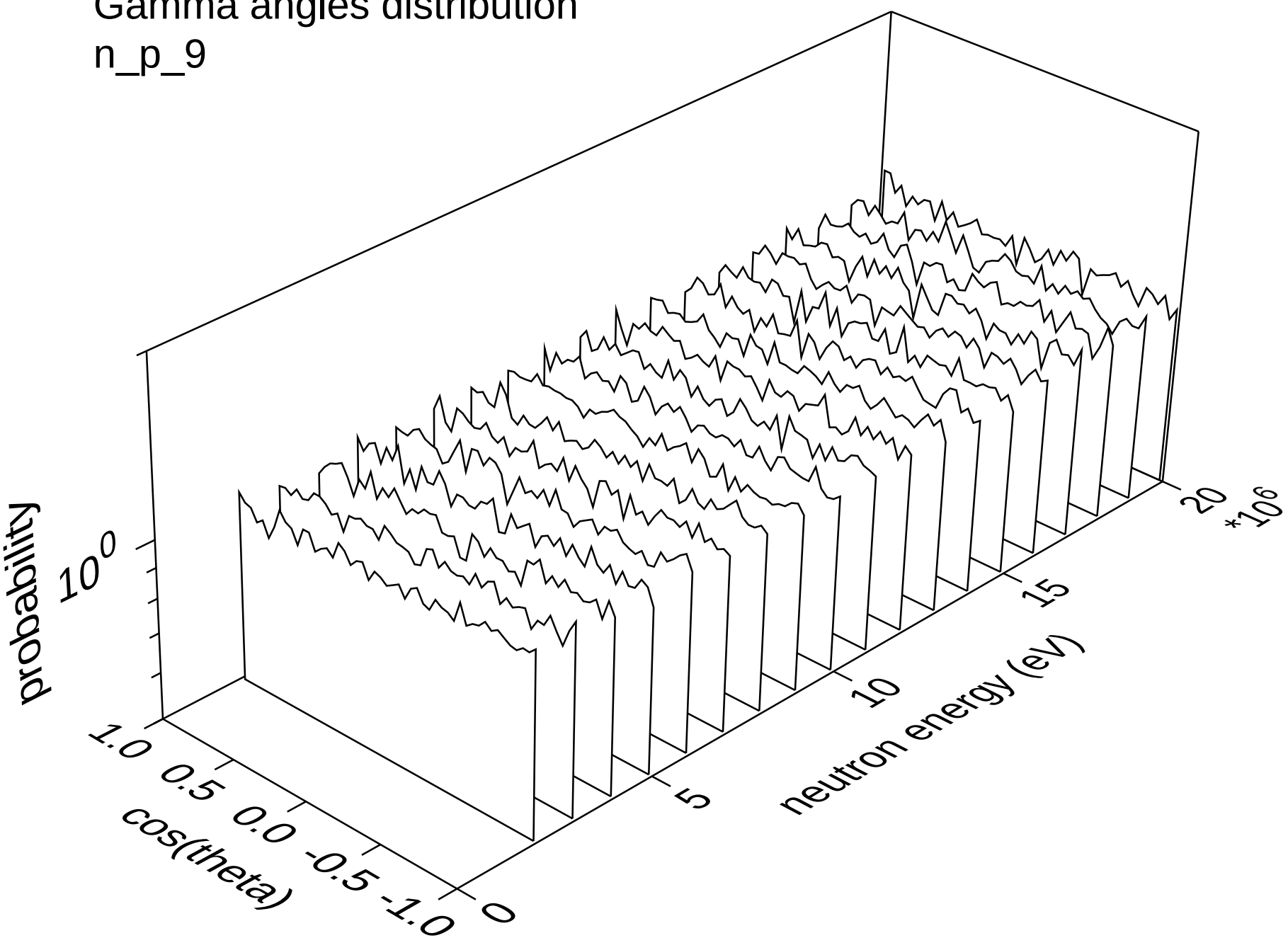

Gamma energy distribution
n_p_8
probability
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_p_8
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

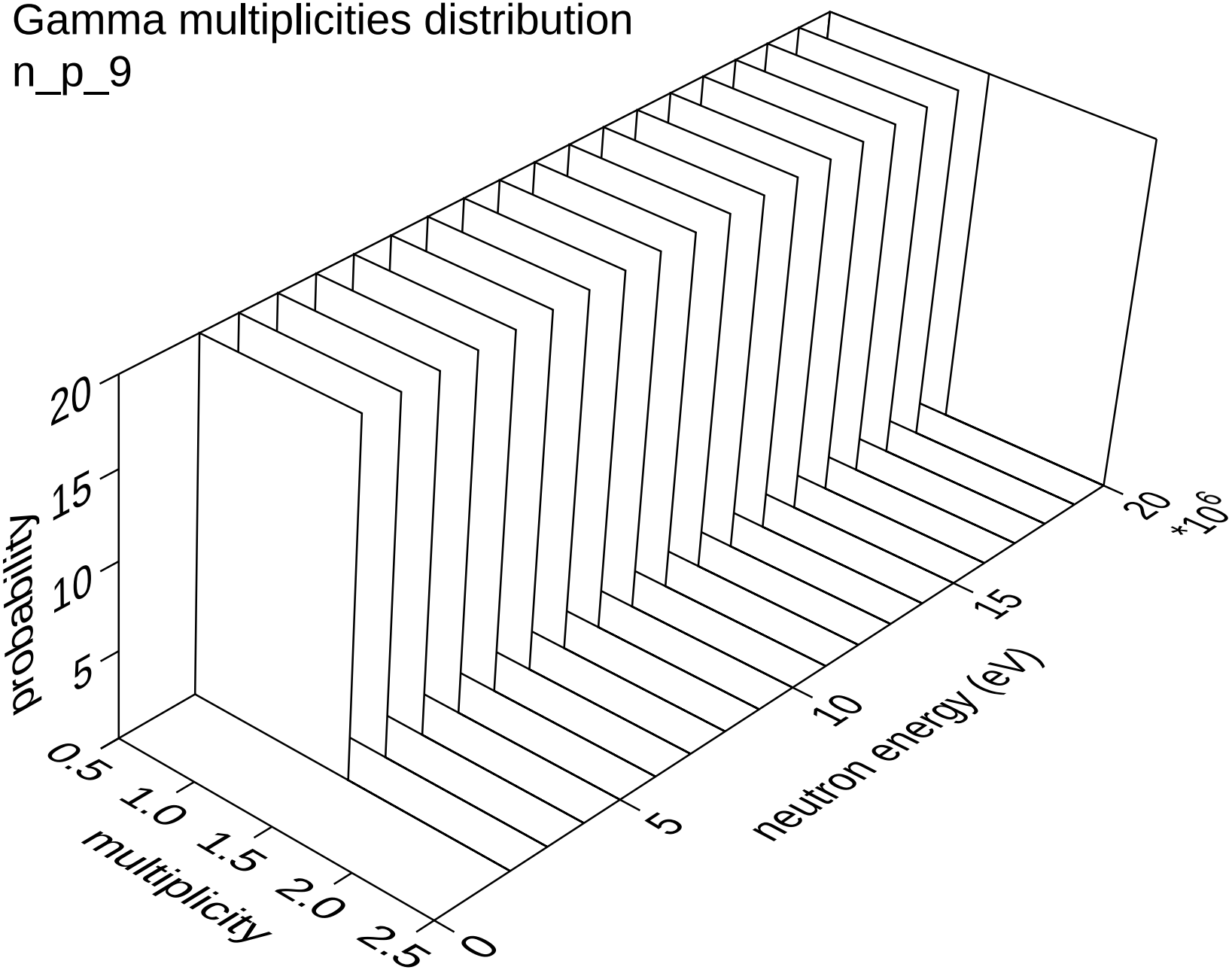
Gamma multiplicities distribution
n_p_8

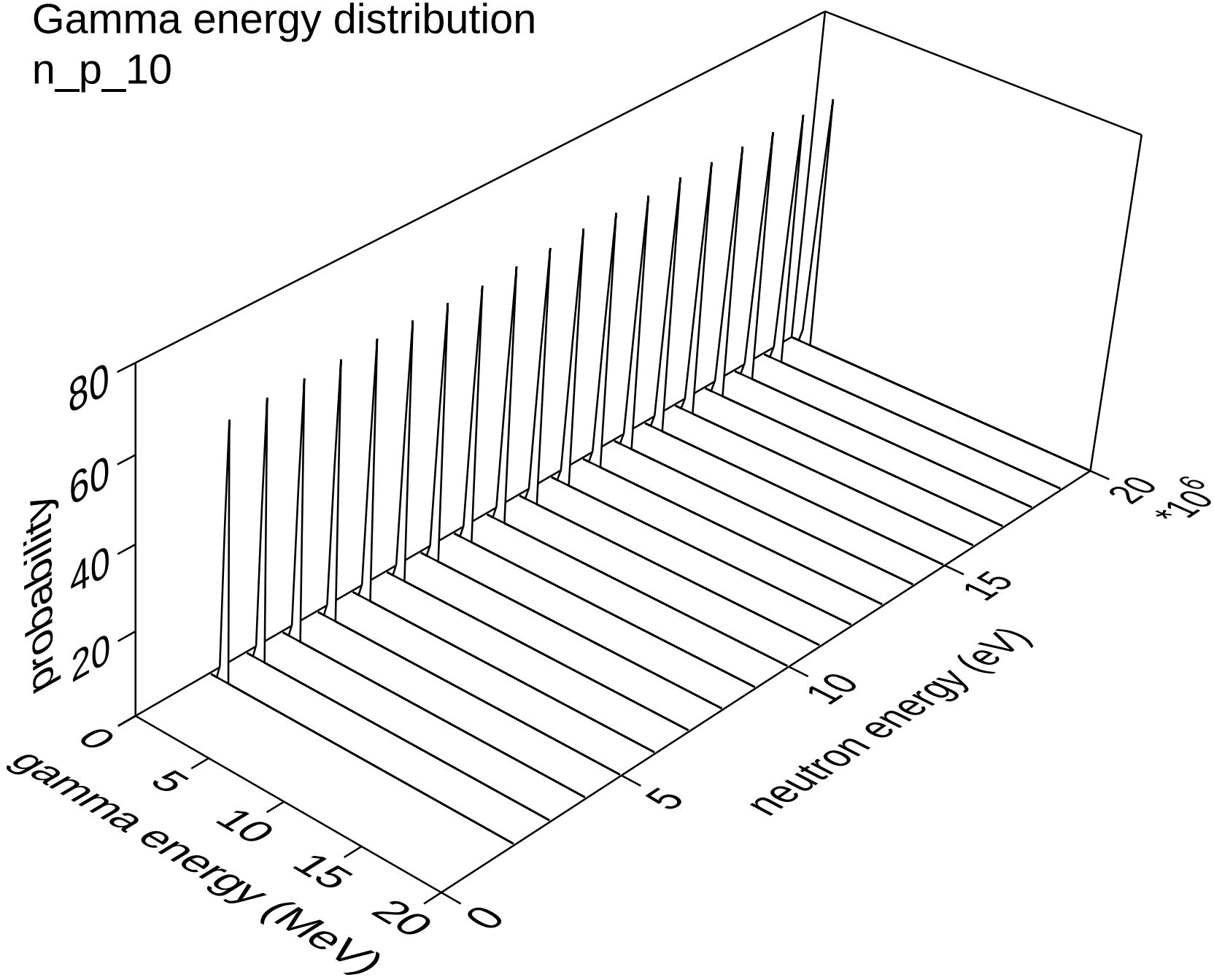


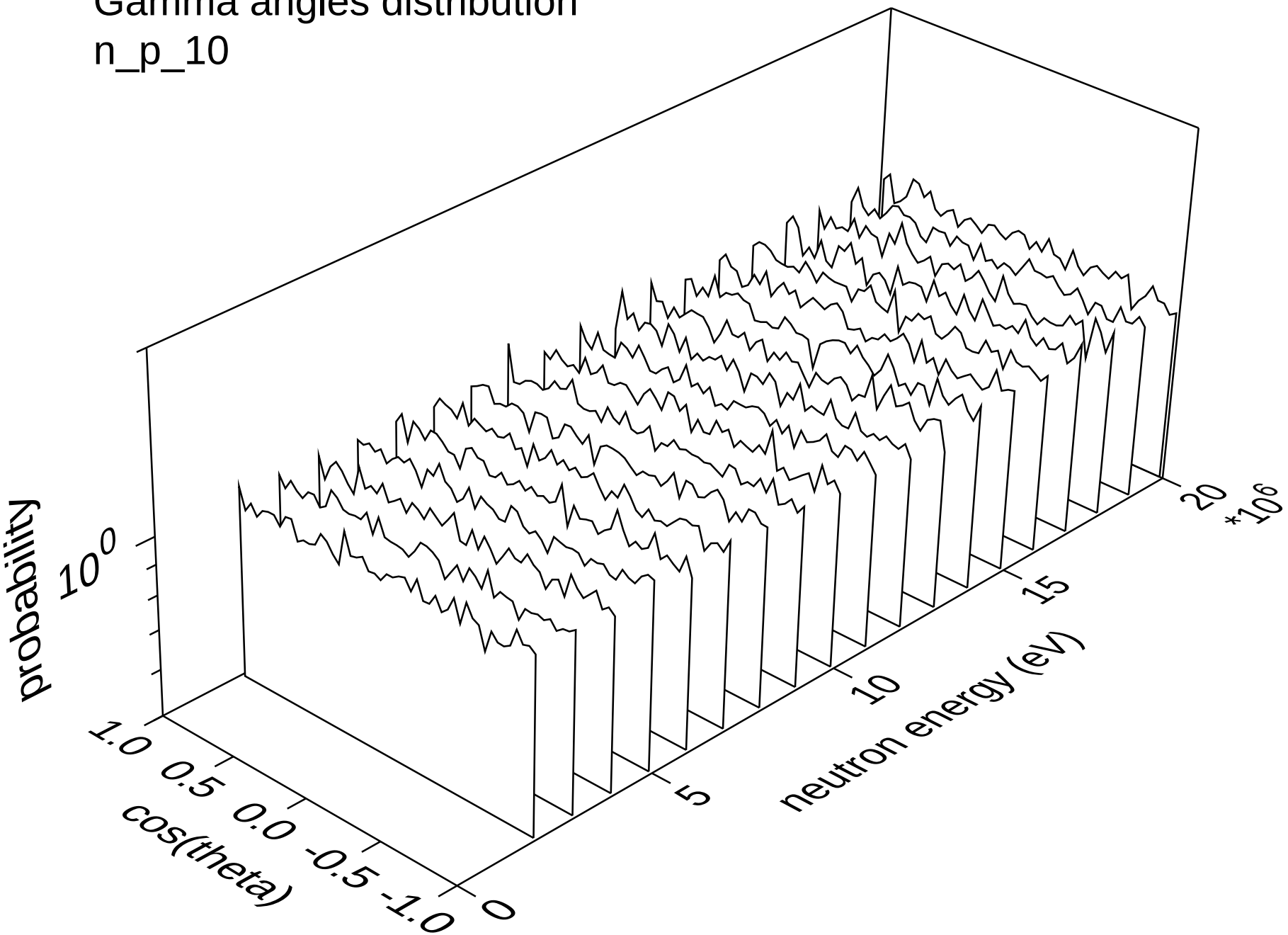

Gamma energy distribution
n_p_9
probability
100
80
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
5
10
15
20
*10^6


Gamma angles distribution
n_p_9
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

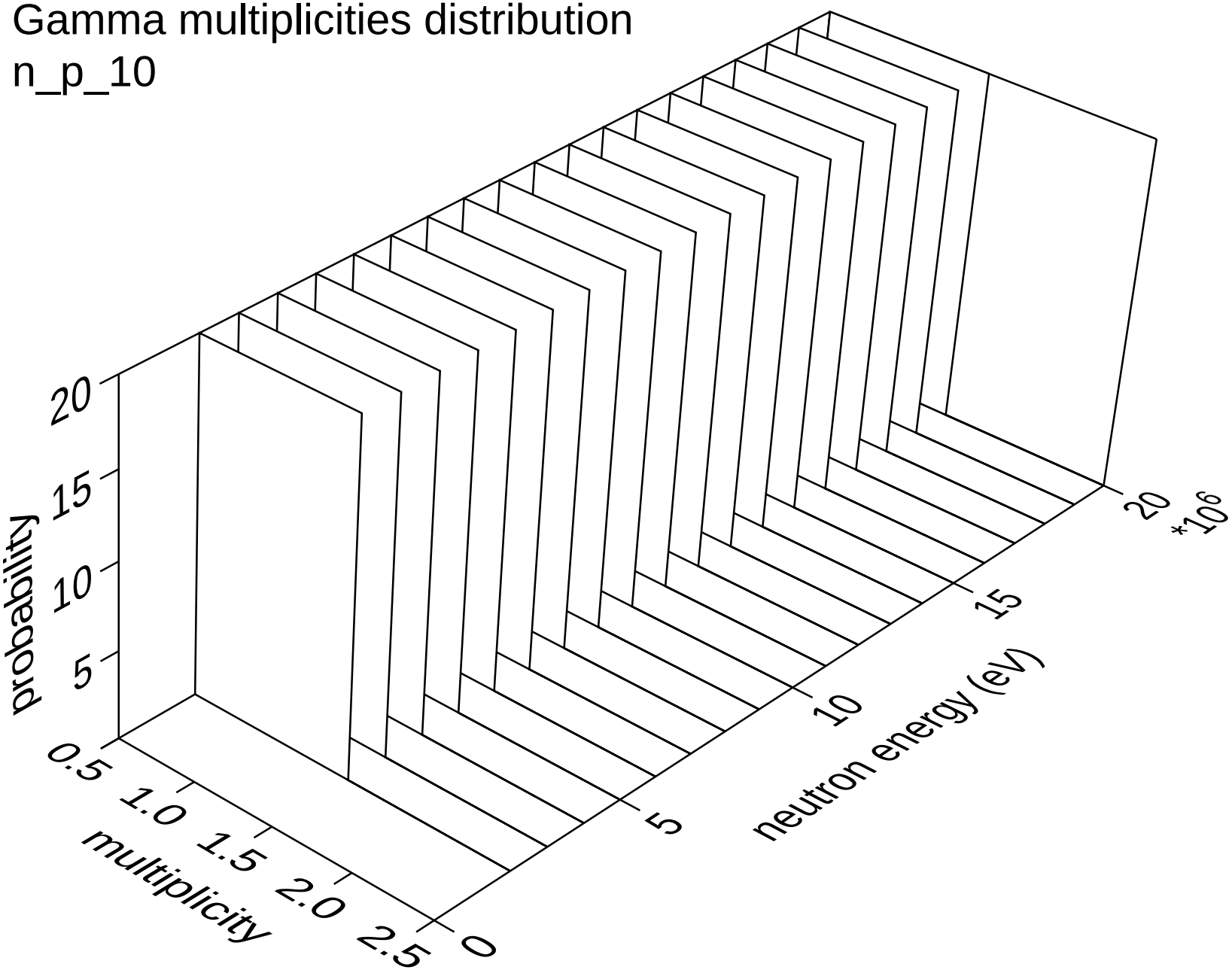
Gamma multiplicities distribution
n_p_9

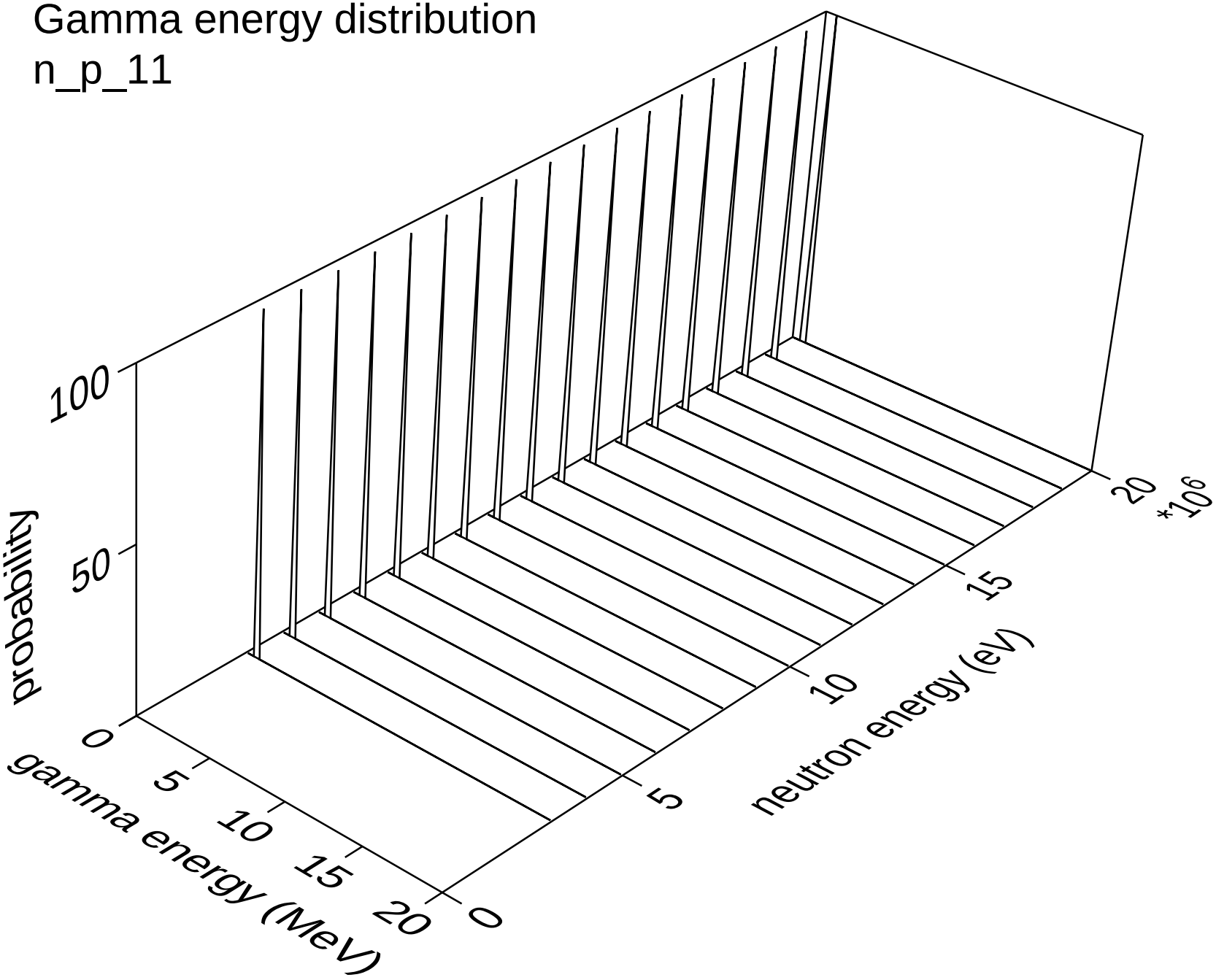


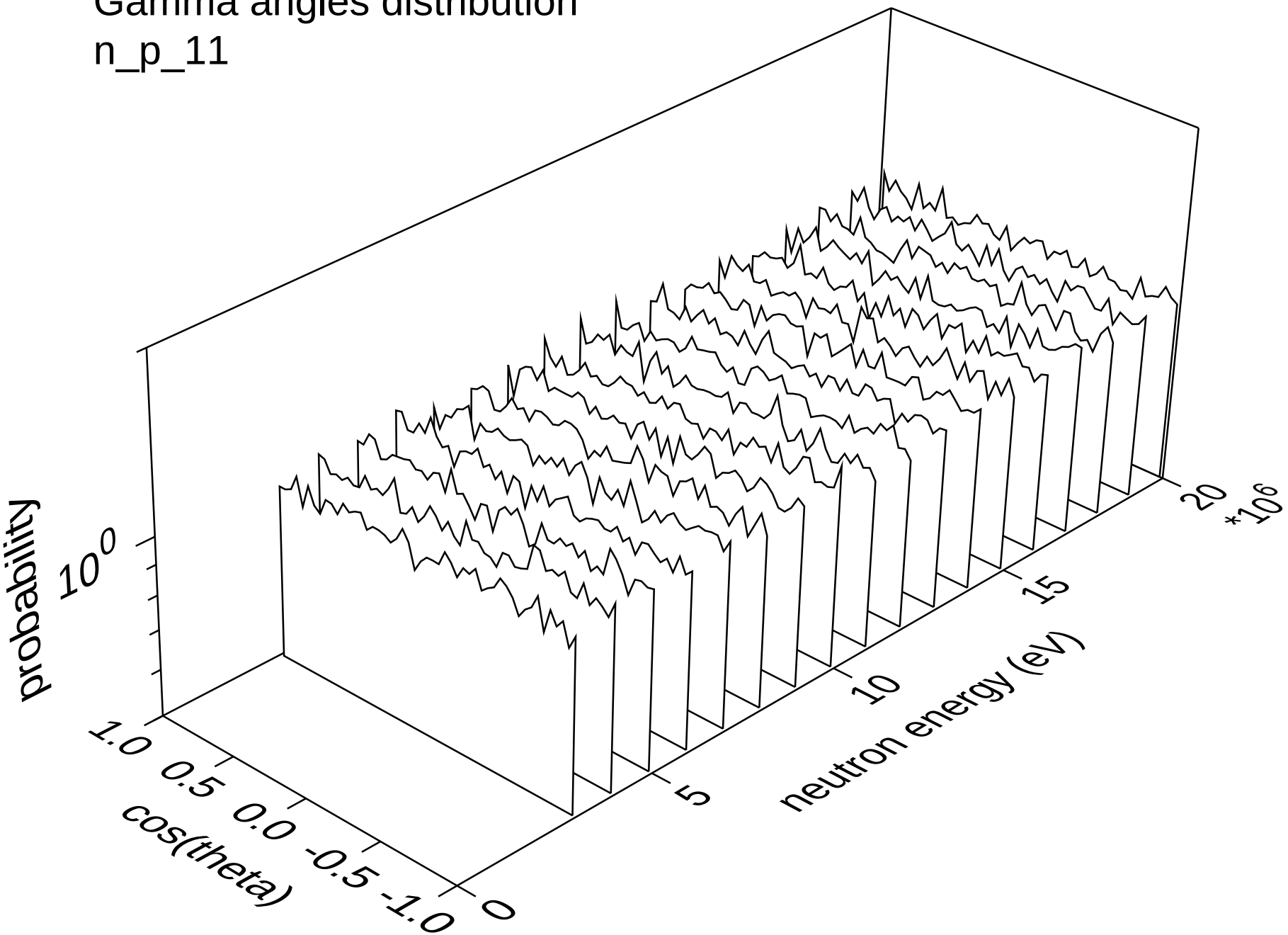

Gamma energy distribution
n_p_10
probability
80
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
5
10
15
20
*10^6


Gamma angles distribution
n_p_10
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

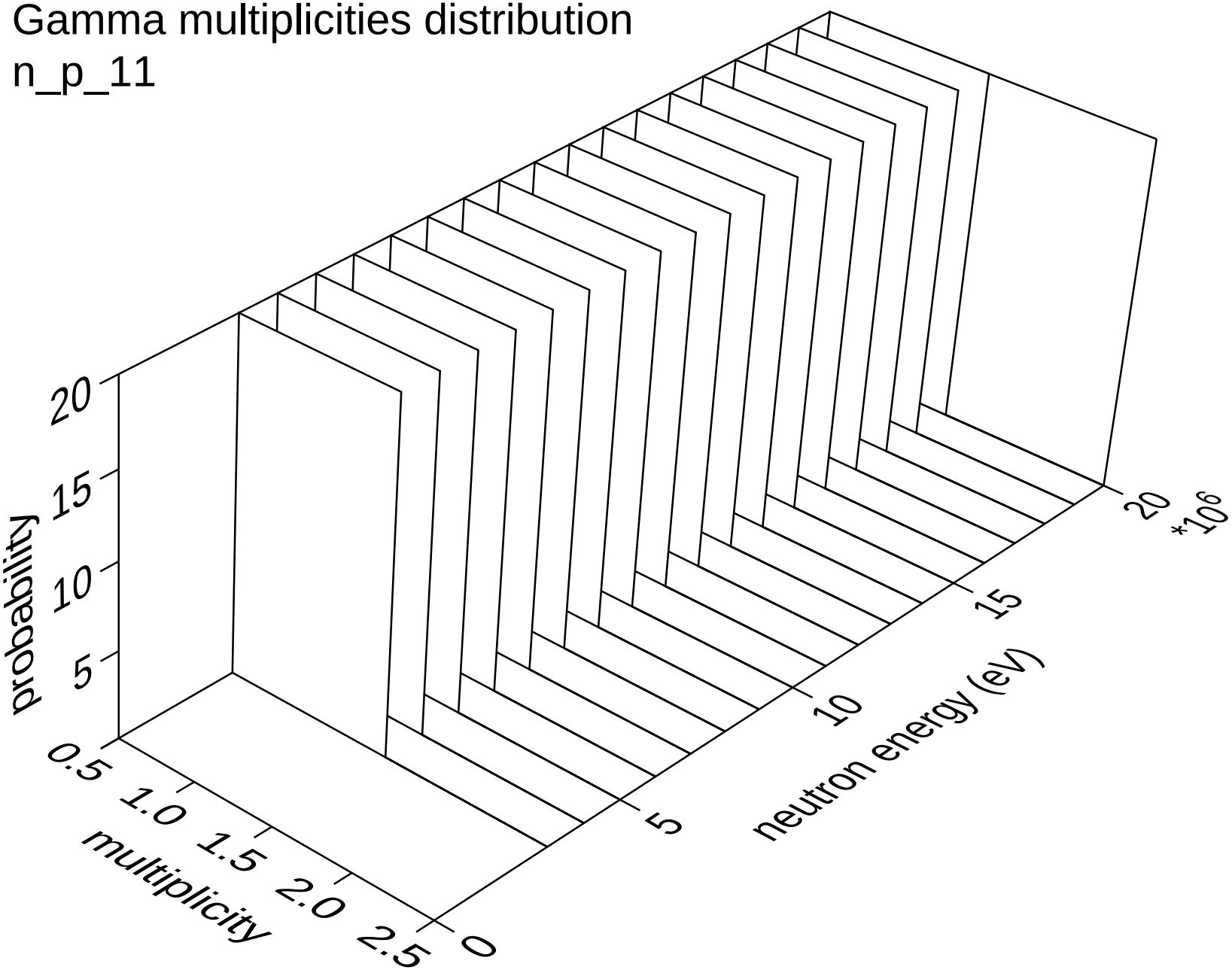
Gamma multiplicities distribution
n_p_10

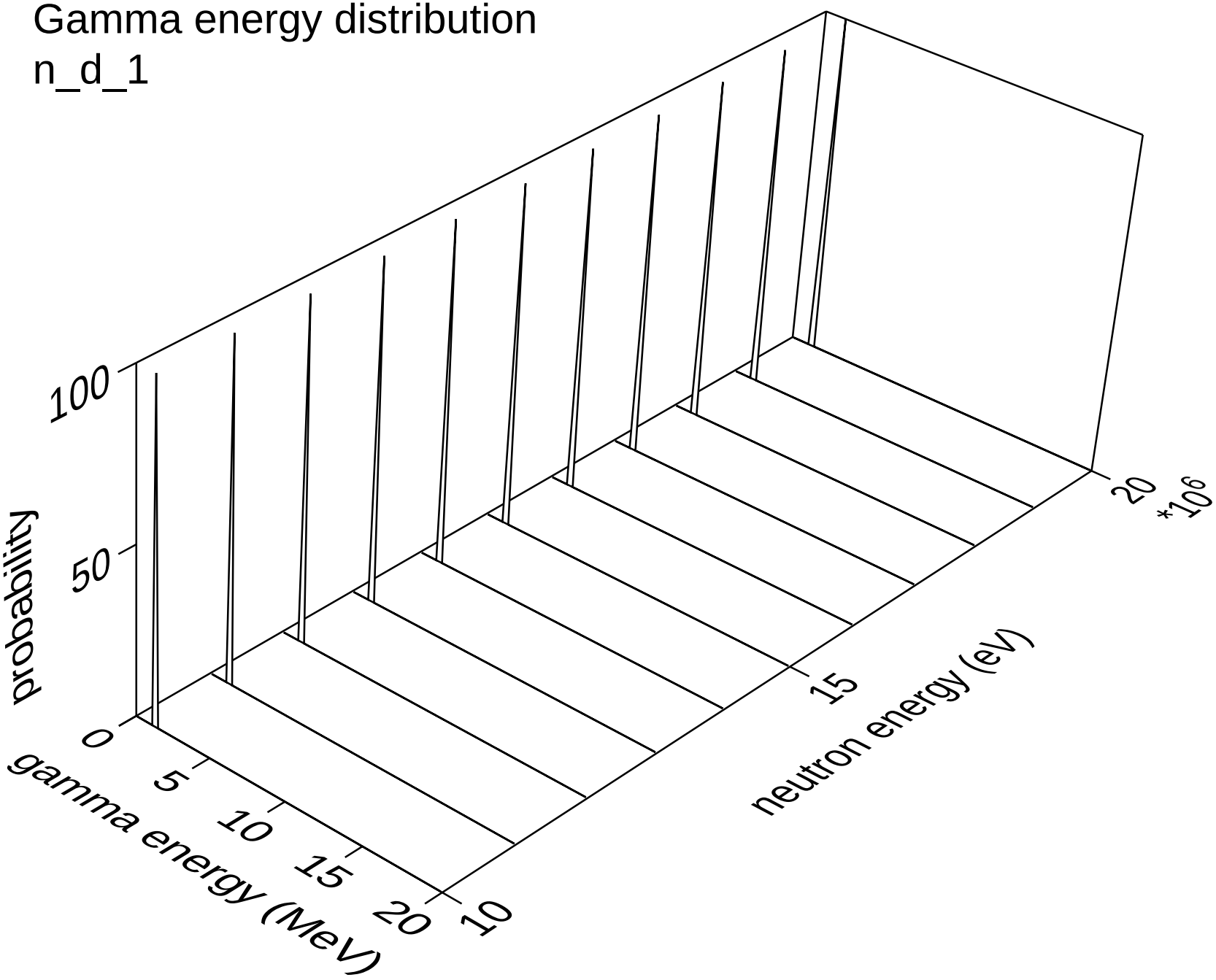


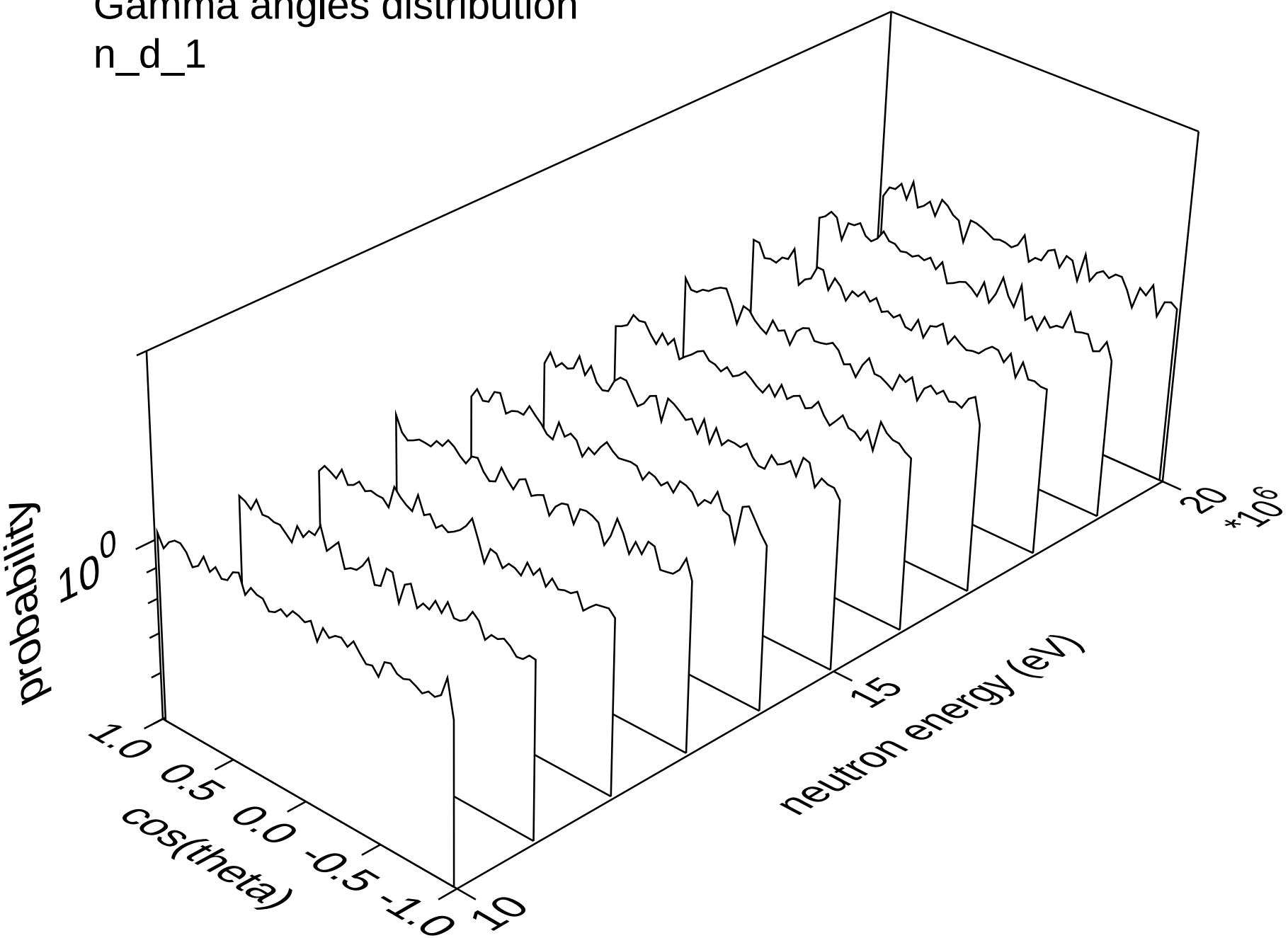

Gamma energy distribution
n_p_11
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6

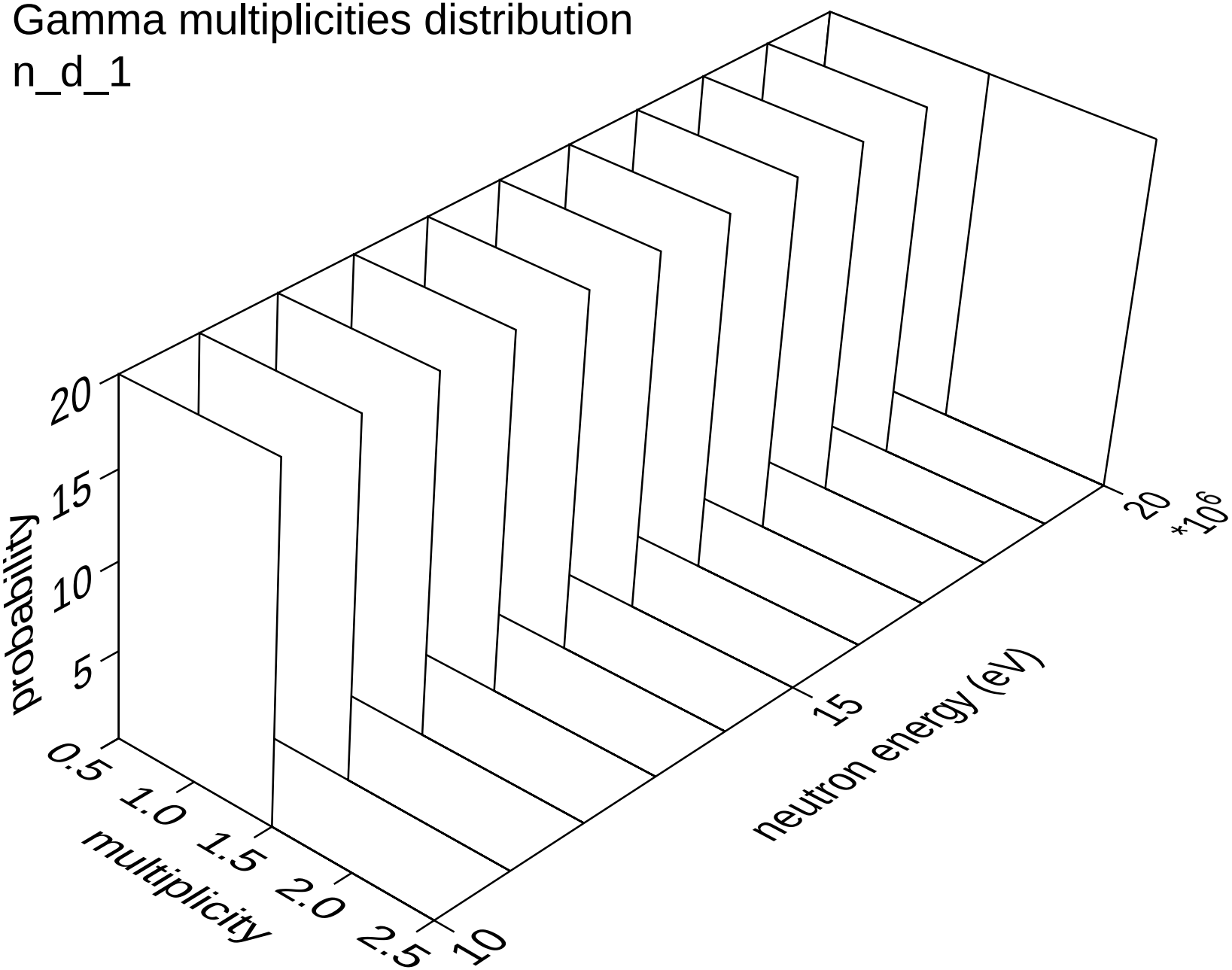

Gamma angles distribution
n_p_11
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

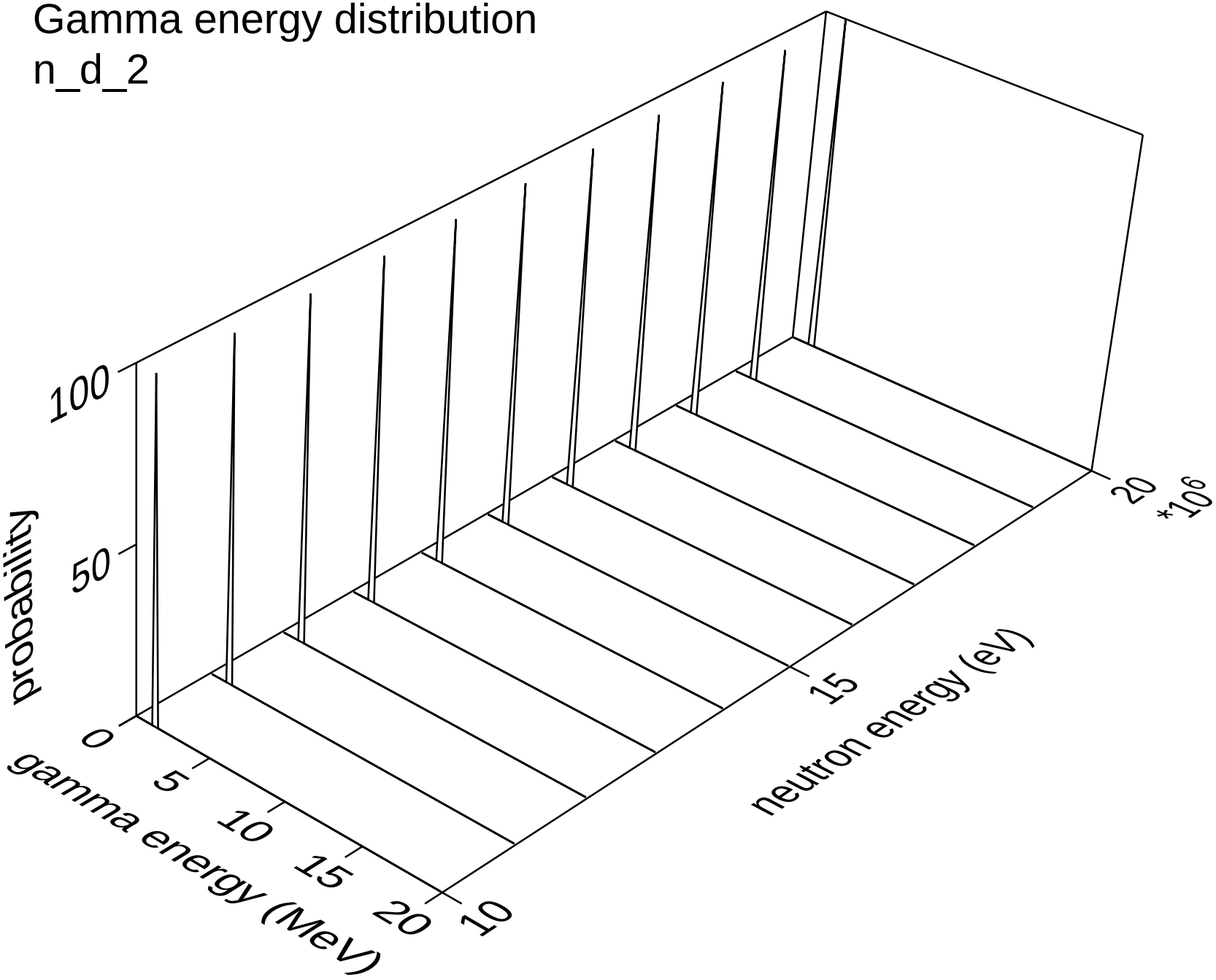
Gamma multiplicities distribution
n_p_11

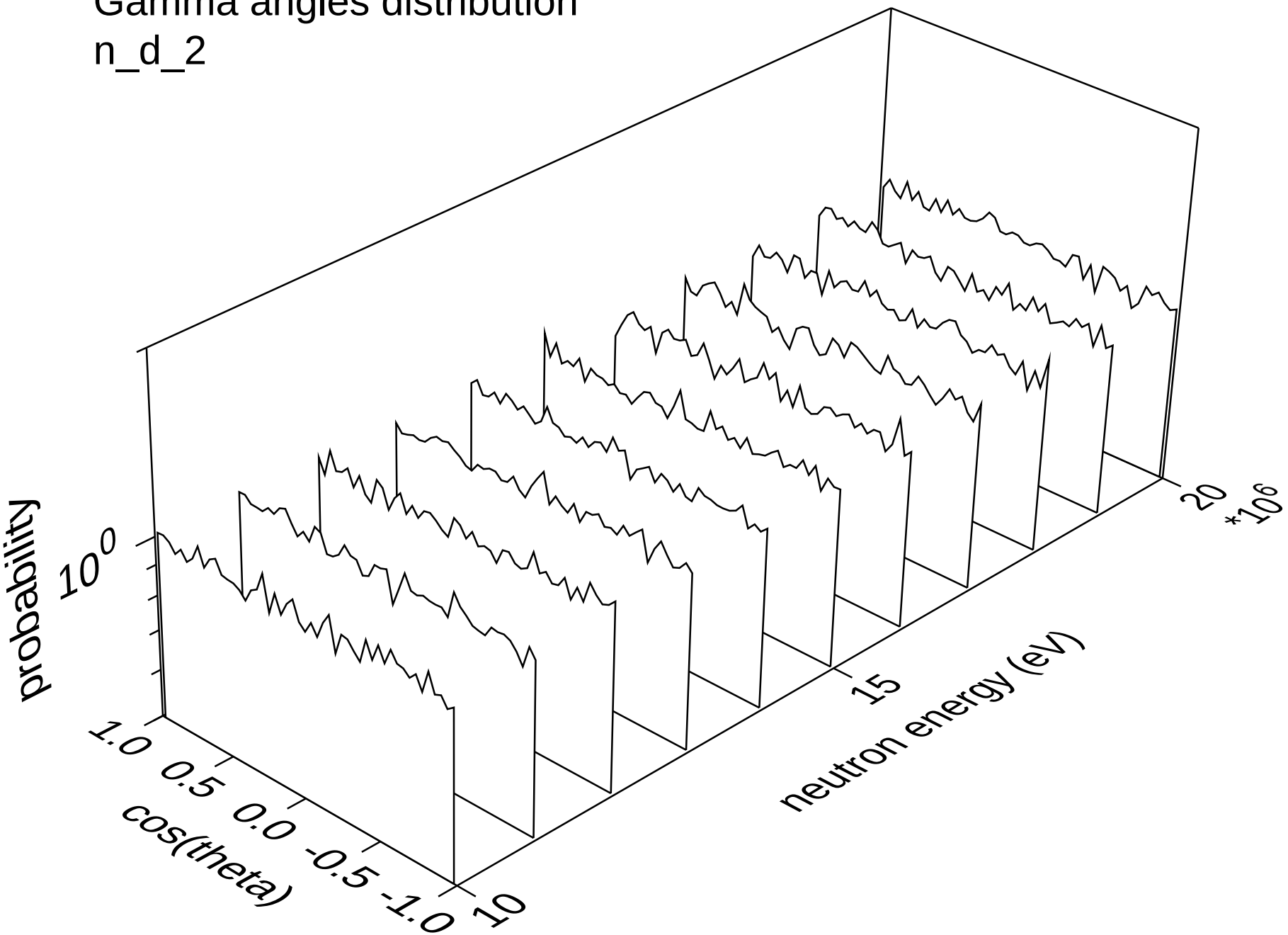



Gamma energy distribution
n_d_1
probability
100
50
0
gamma energy (MeV)
5
10
15
20
10
neutron energy (eV)
15
20
*10^6

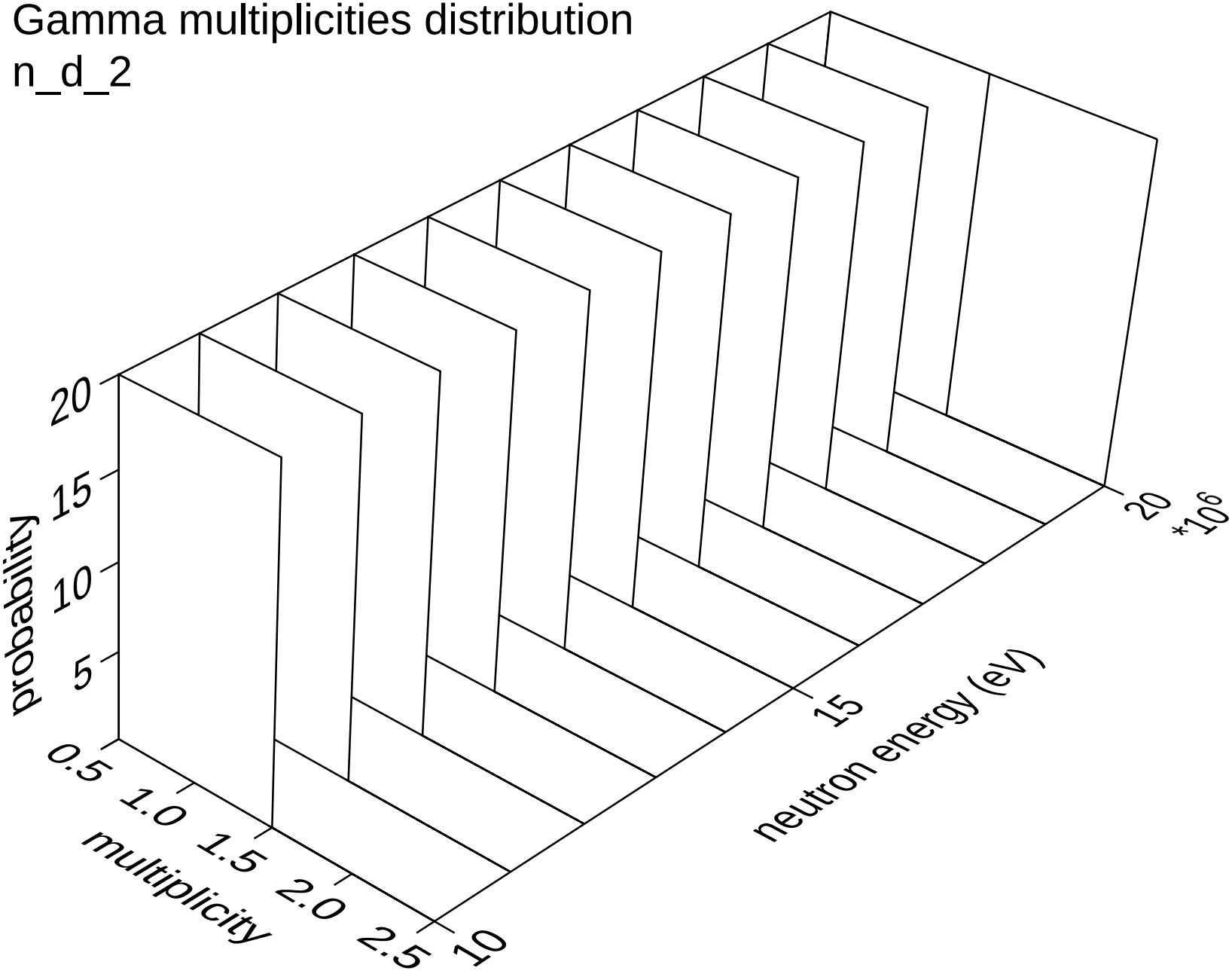

Gamma angles distribution
n_d_1
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
neutron energy (eV)
*10^6

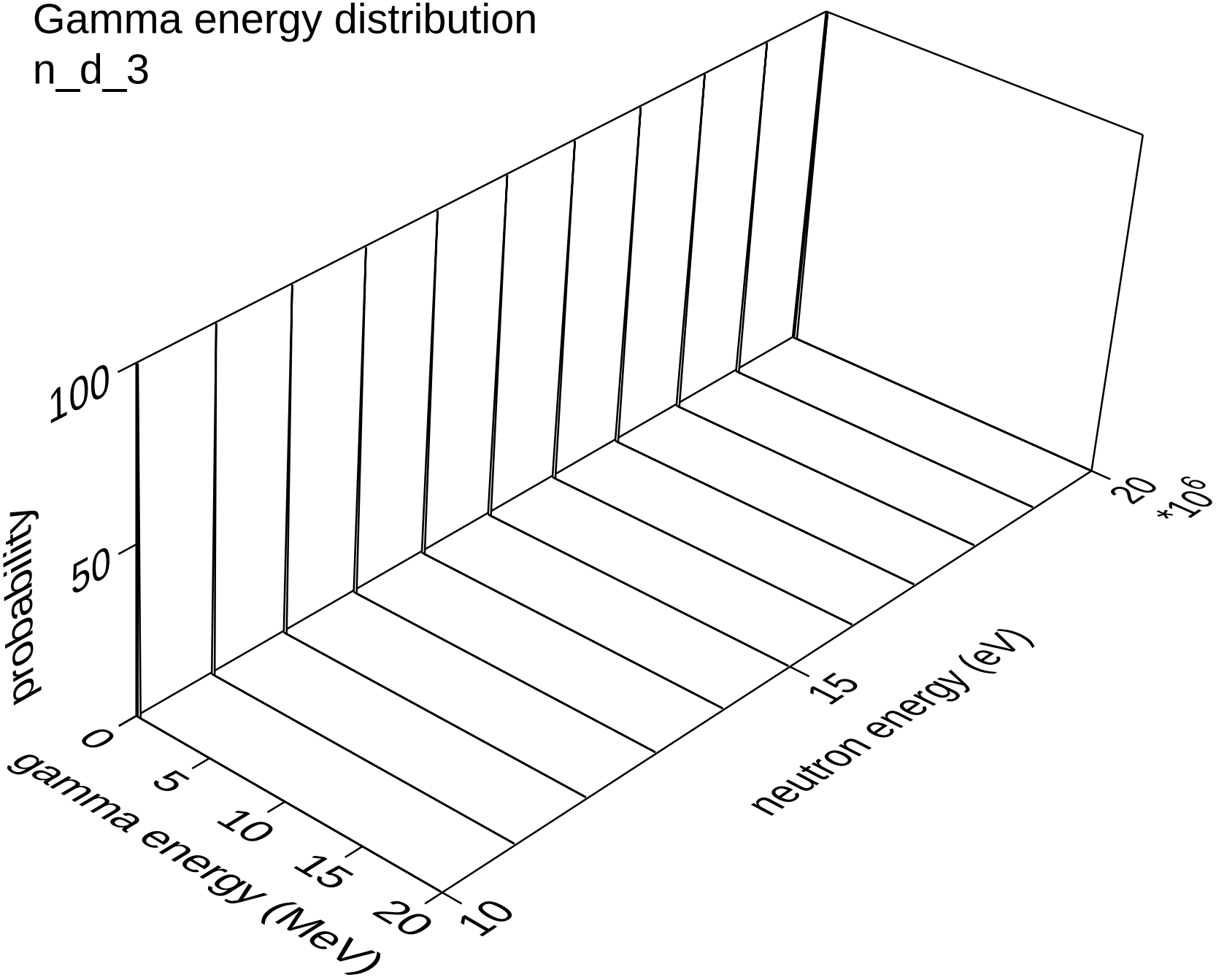

Gamma multiplicities distribution
n_d_1
probability
20
15
10
5
0.5
1.0
1.5
2.0
2.5
multiplicity
15
20
*10^6
neutron energy (eV)

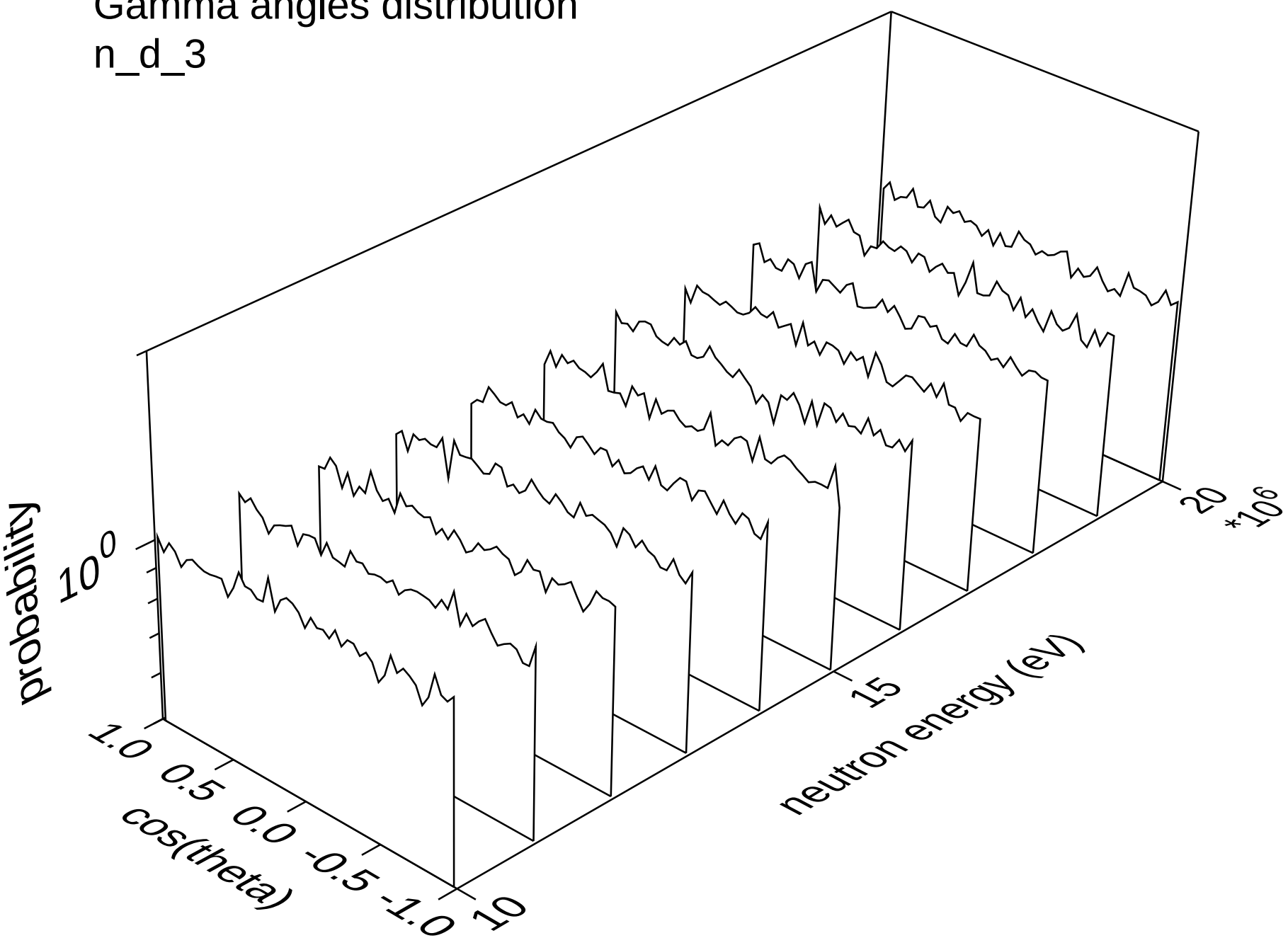

Gamma energy distribution
n_d_2
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
10
15
20
*10^6


Gamma angles distribution
n_d_2
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
*10^6
neutron energy (eV)

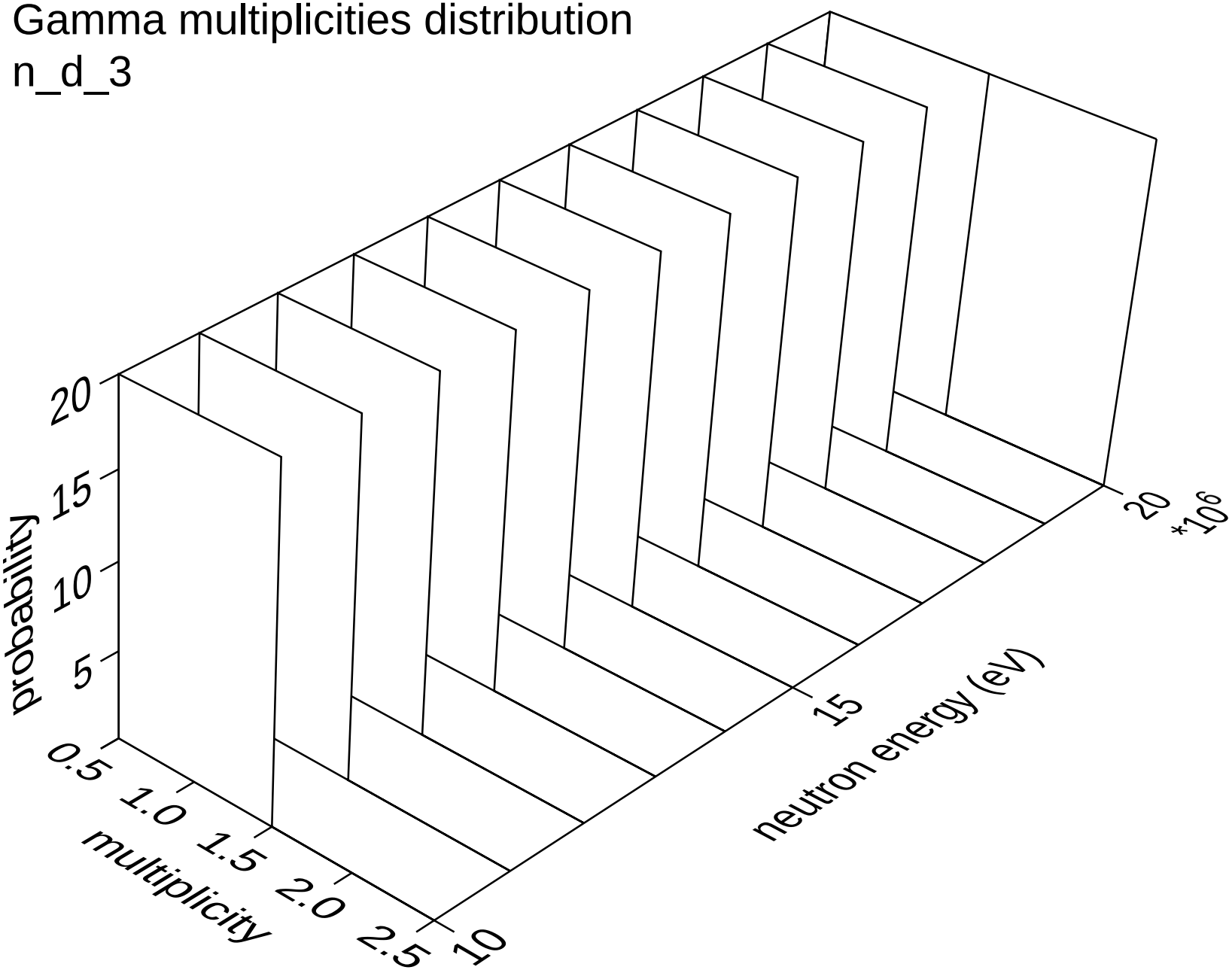
Gamma multiplicities distribution
n_d_2

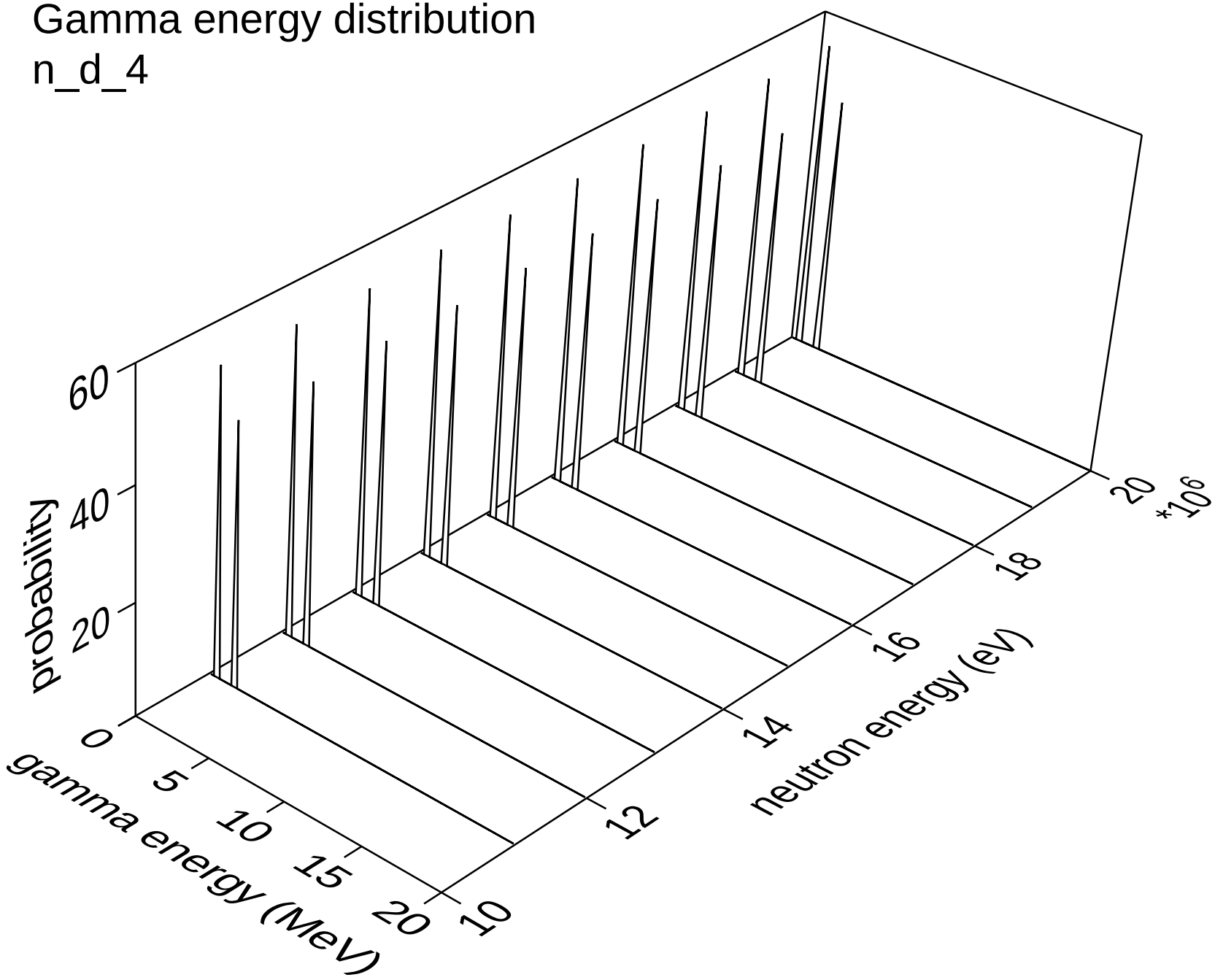


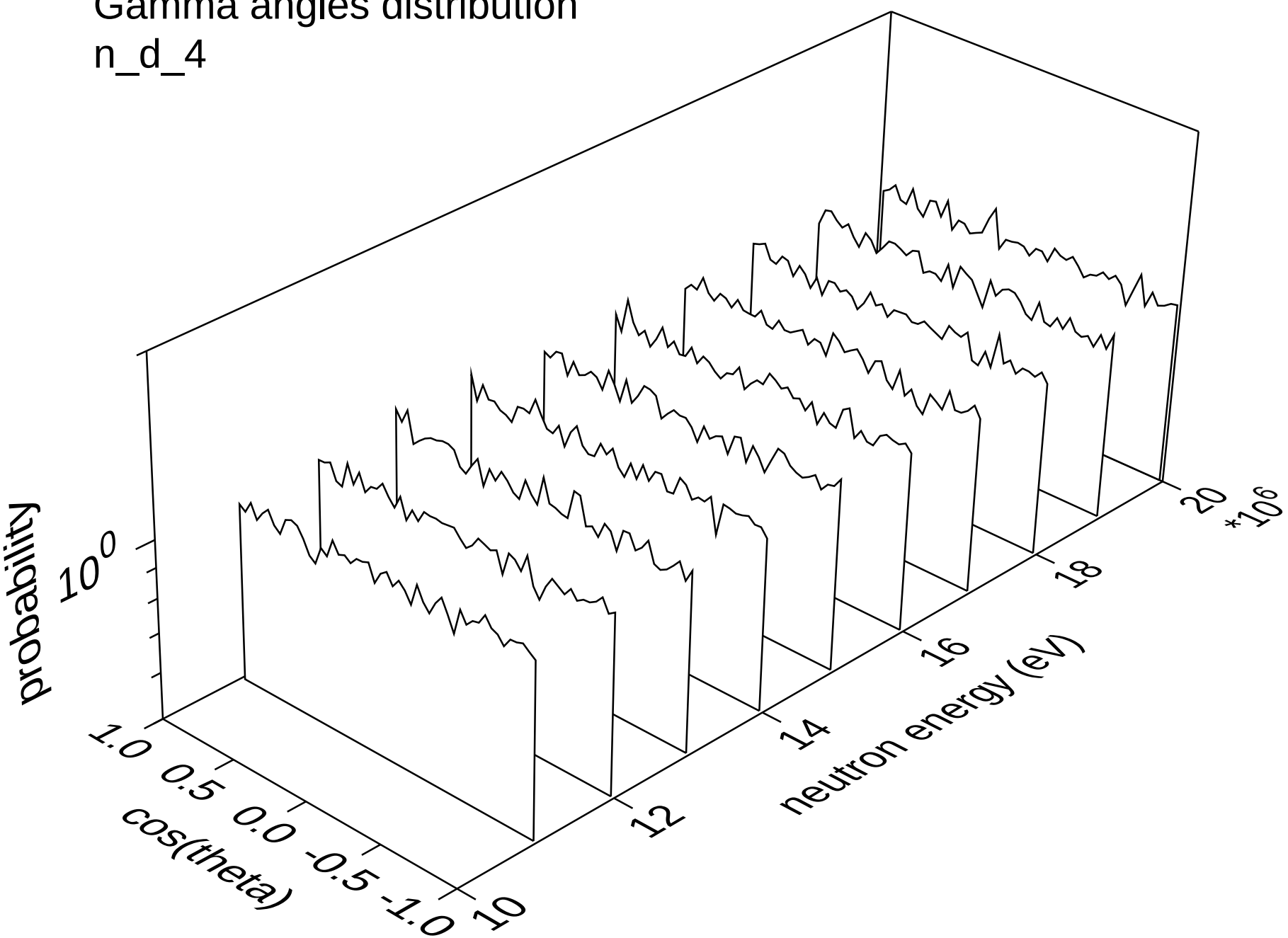

Gamma energy distribution
n_d_3
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
10
15
20
*10^6


Gamma angles distribution
n_d_3
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
neutron energy (eV)
*10^6

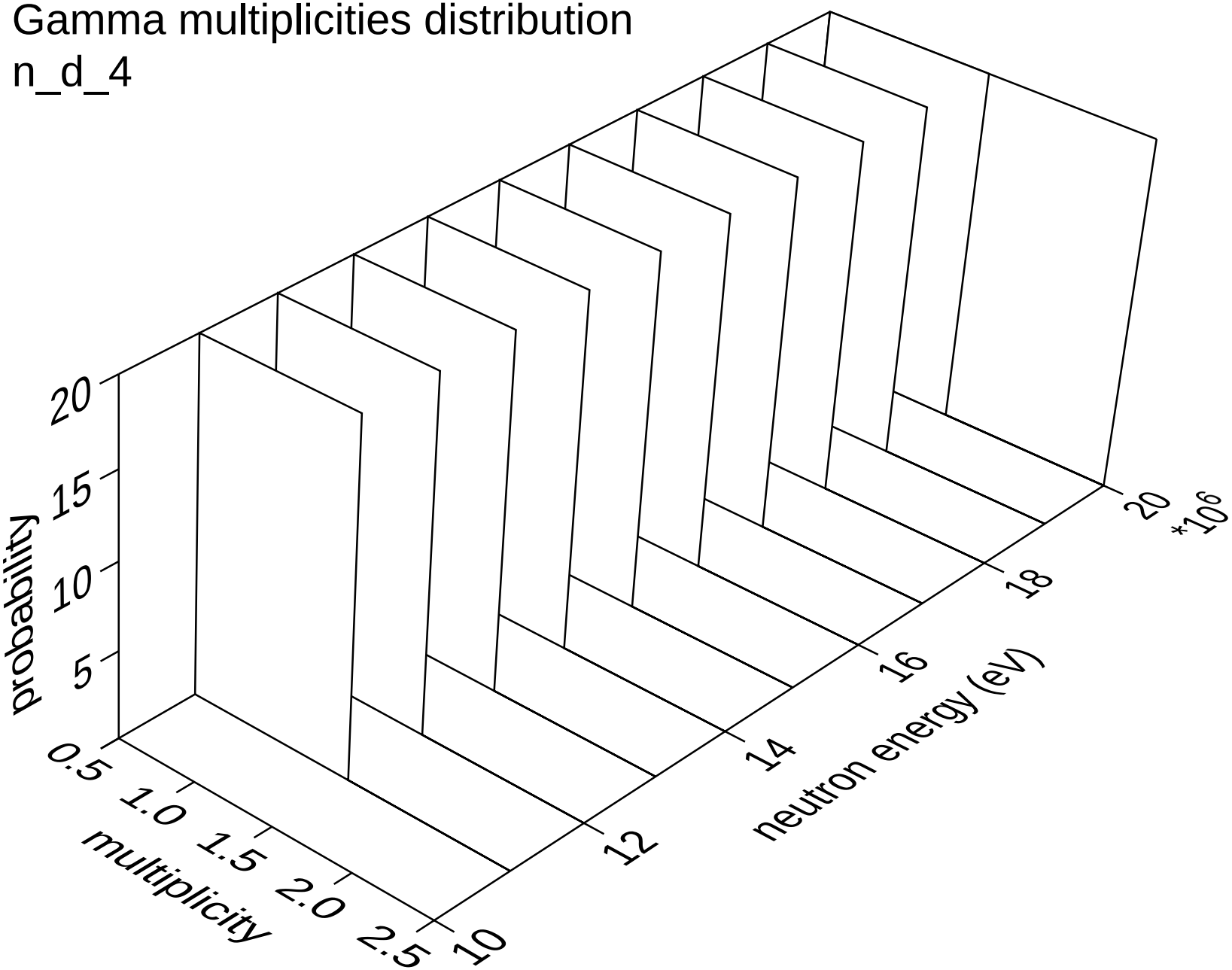
Gamma multiplicities distribution
n_d_3

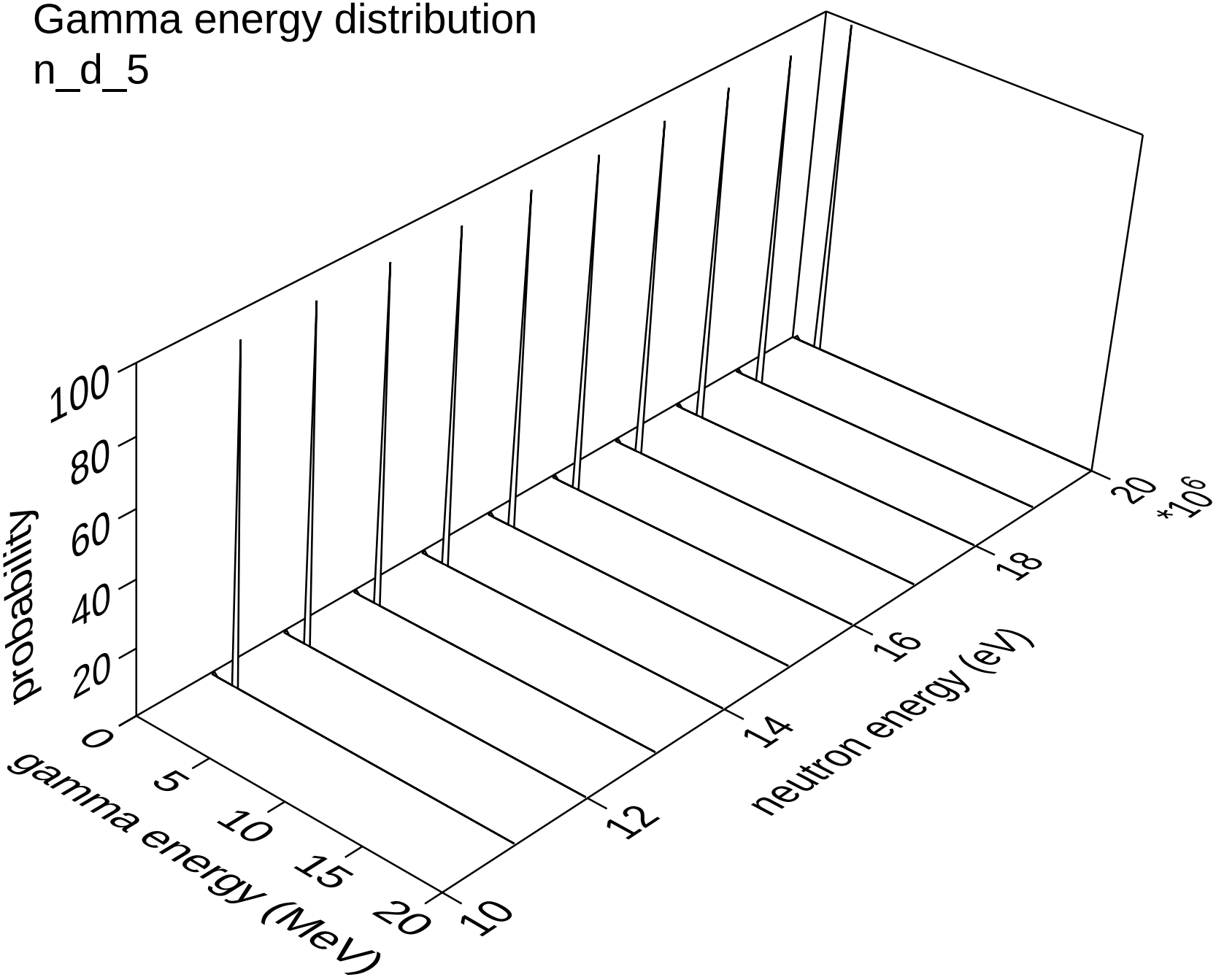


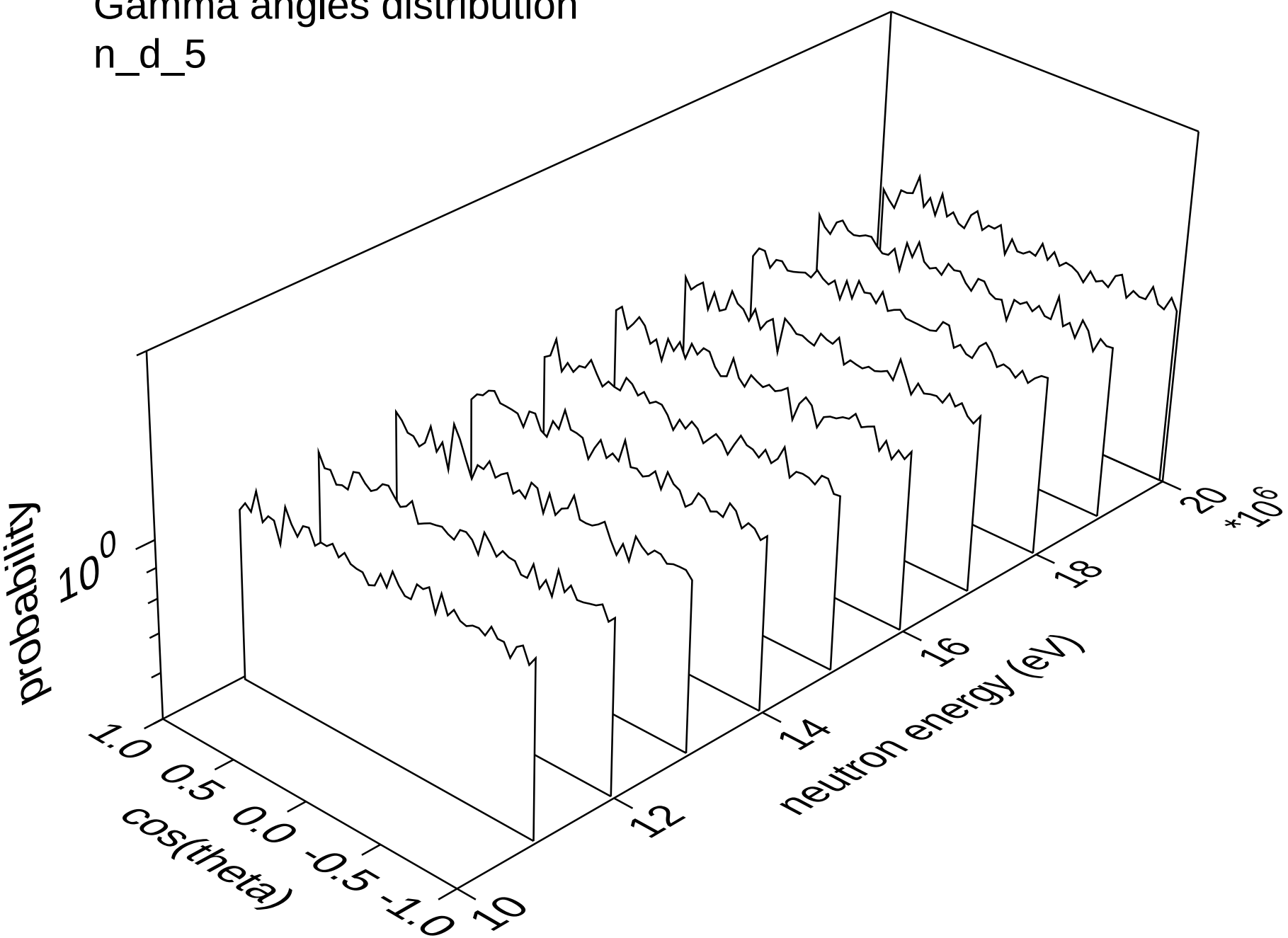

Gamma energy distribution
n_d_4
probability
60
40
20
0
gamma energy (MeV)
5
10
15
20
neutron energy (eV)
10
12
14
16
18
20
*10^6


Gamma angles distribution
n_d_4
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

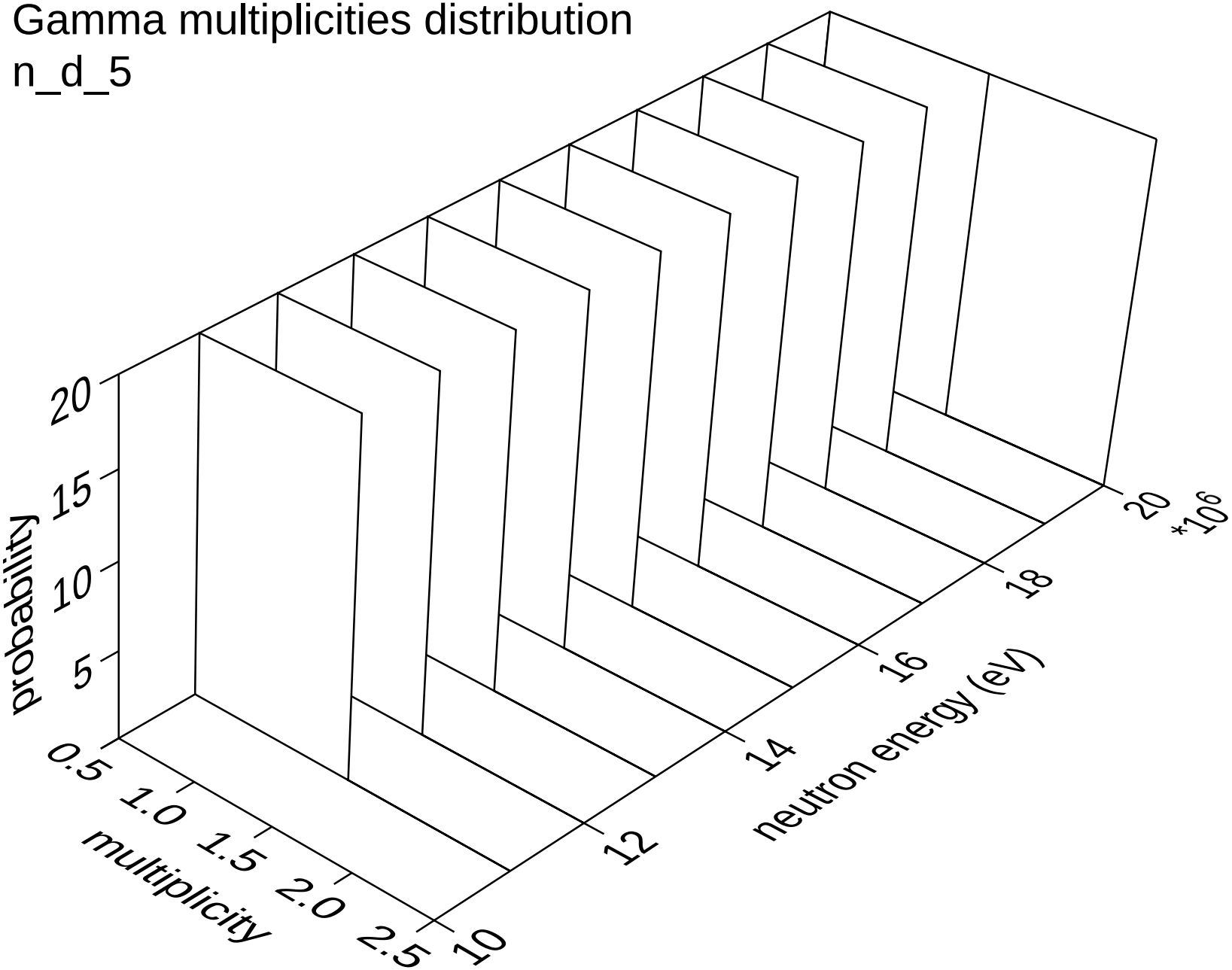
Gamma multiplicities distribution
n_d_4

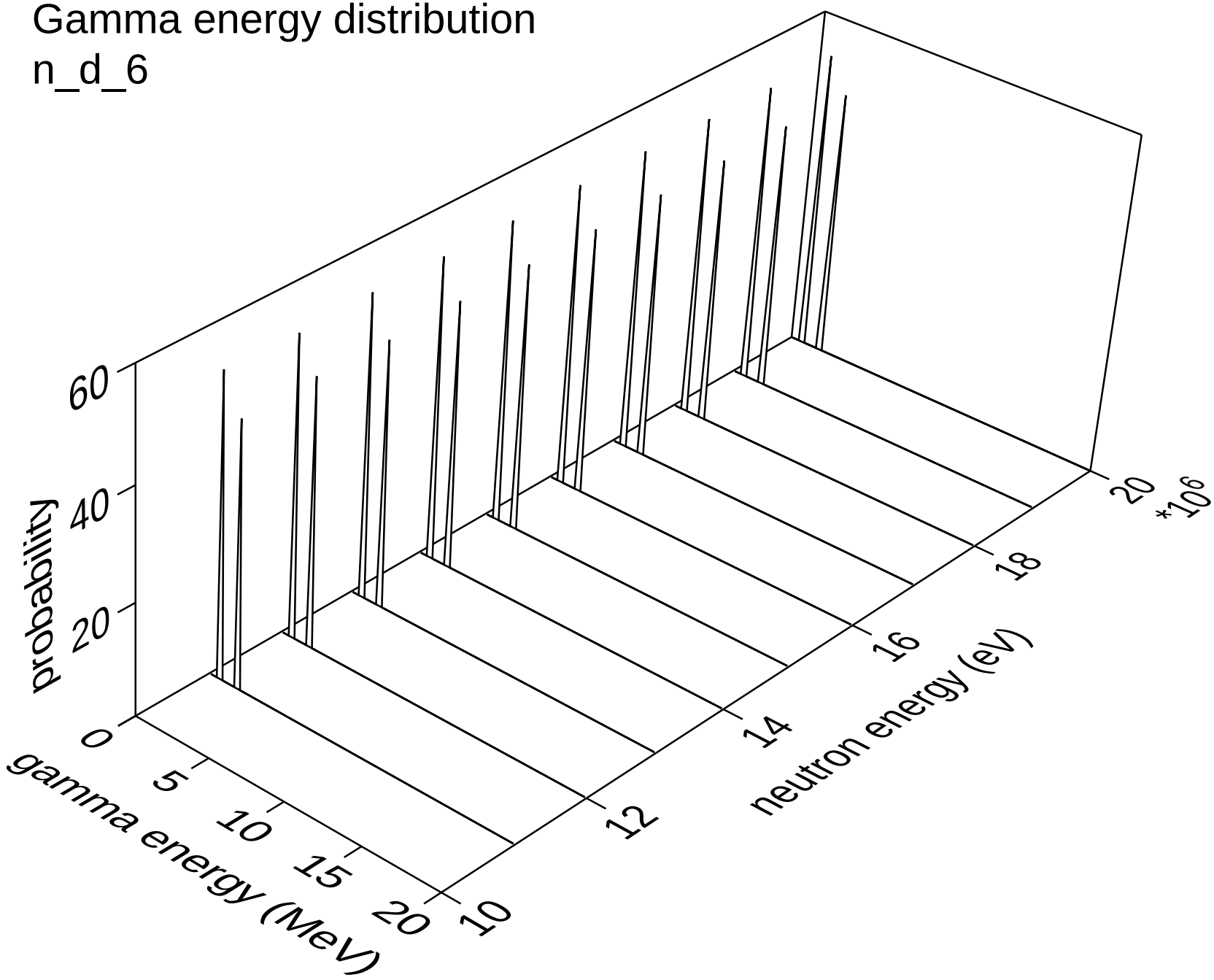


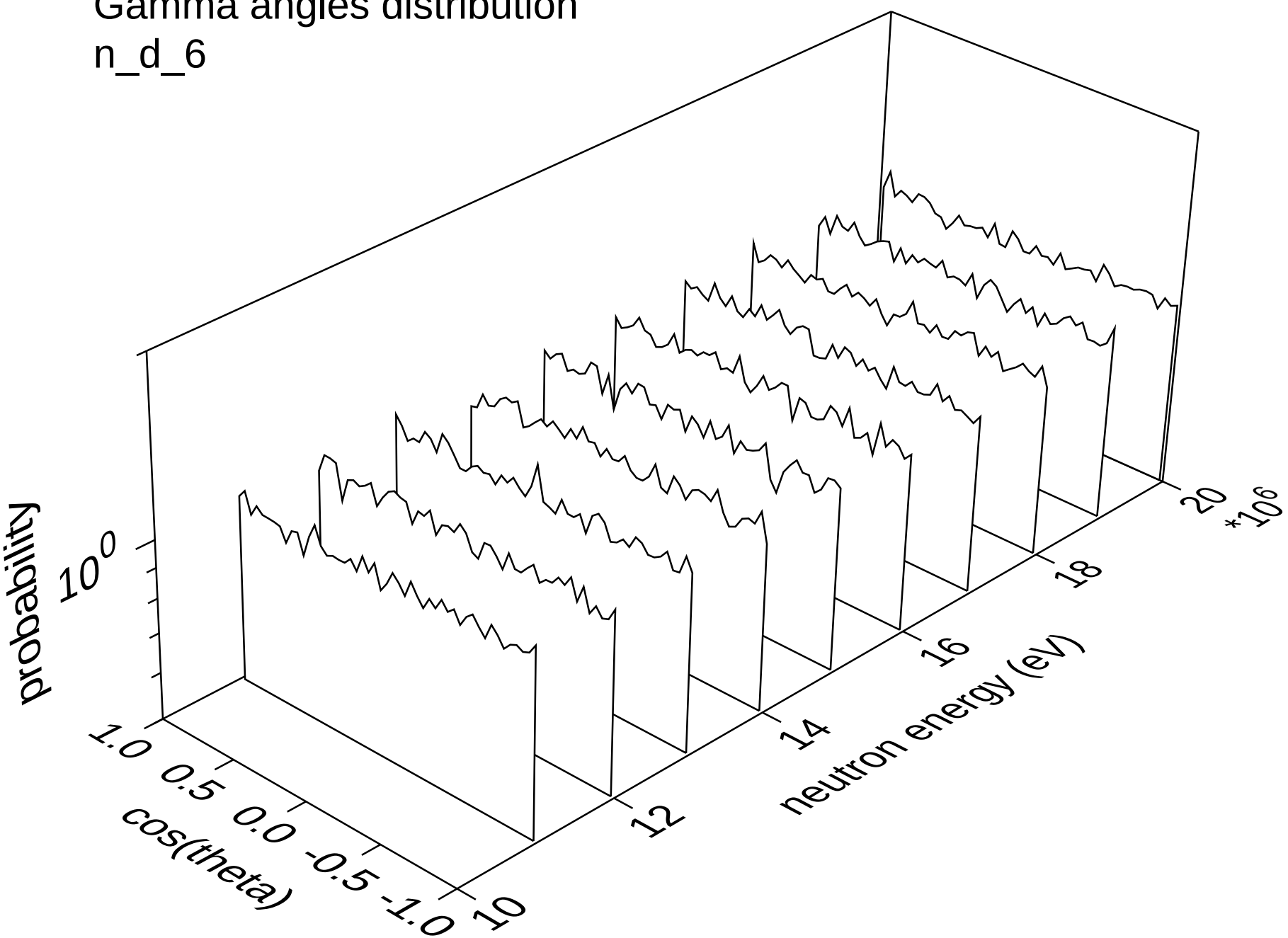

Gamma energy distribution
n_d_5
probability
100
80
60
40
20
0
gamma energy (MeV)
5
10
15
20
10
12
14
16
18
20
*10^6
neutron energy (eV)


Gamma angles distribution
n_d_5
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

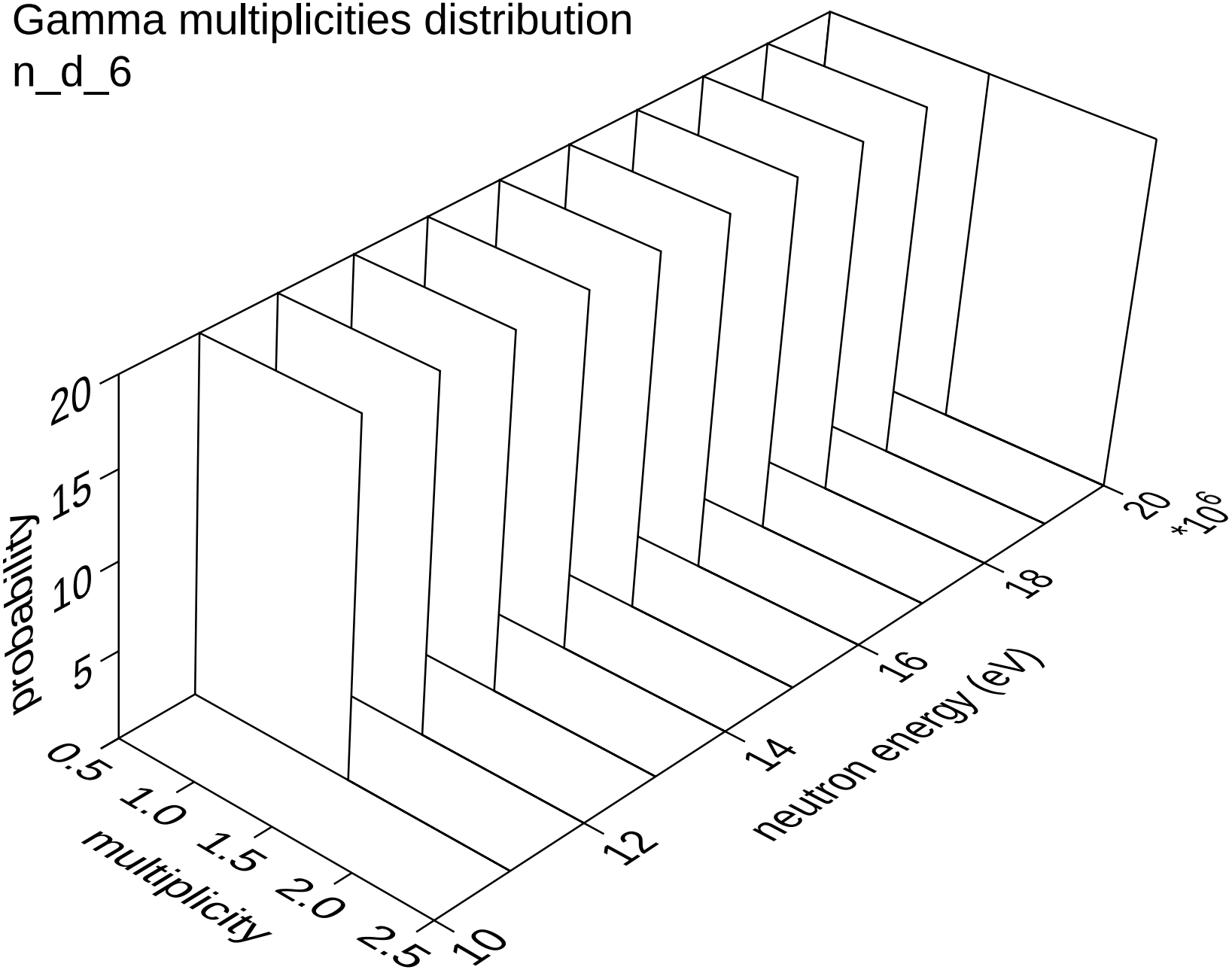
Gamma multiplicities distribution
n_d_5

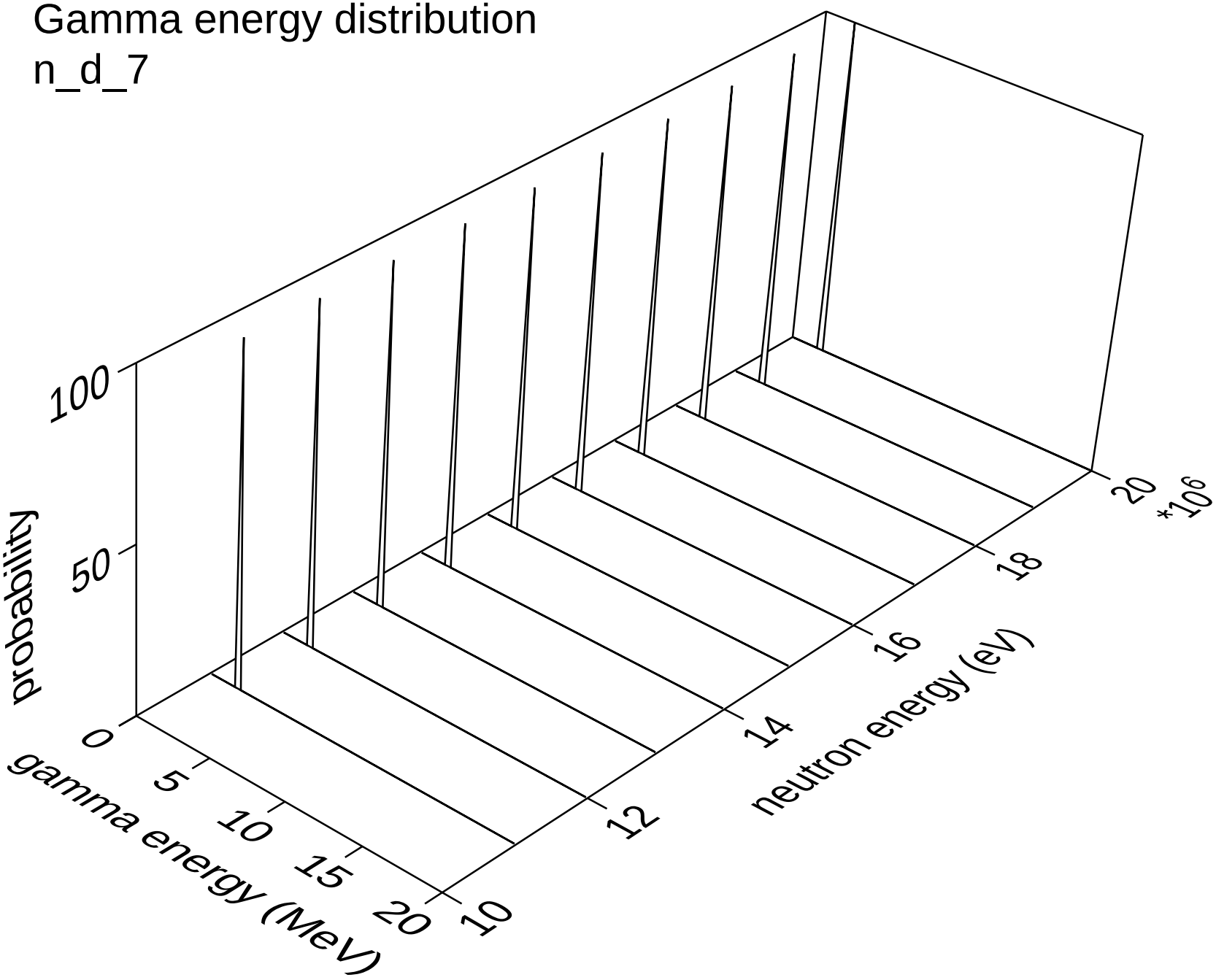


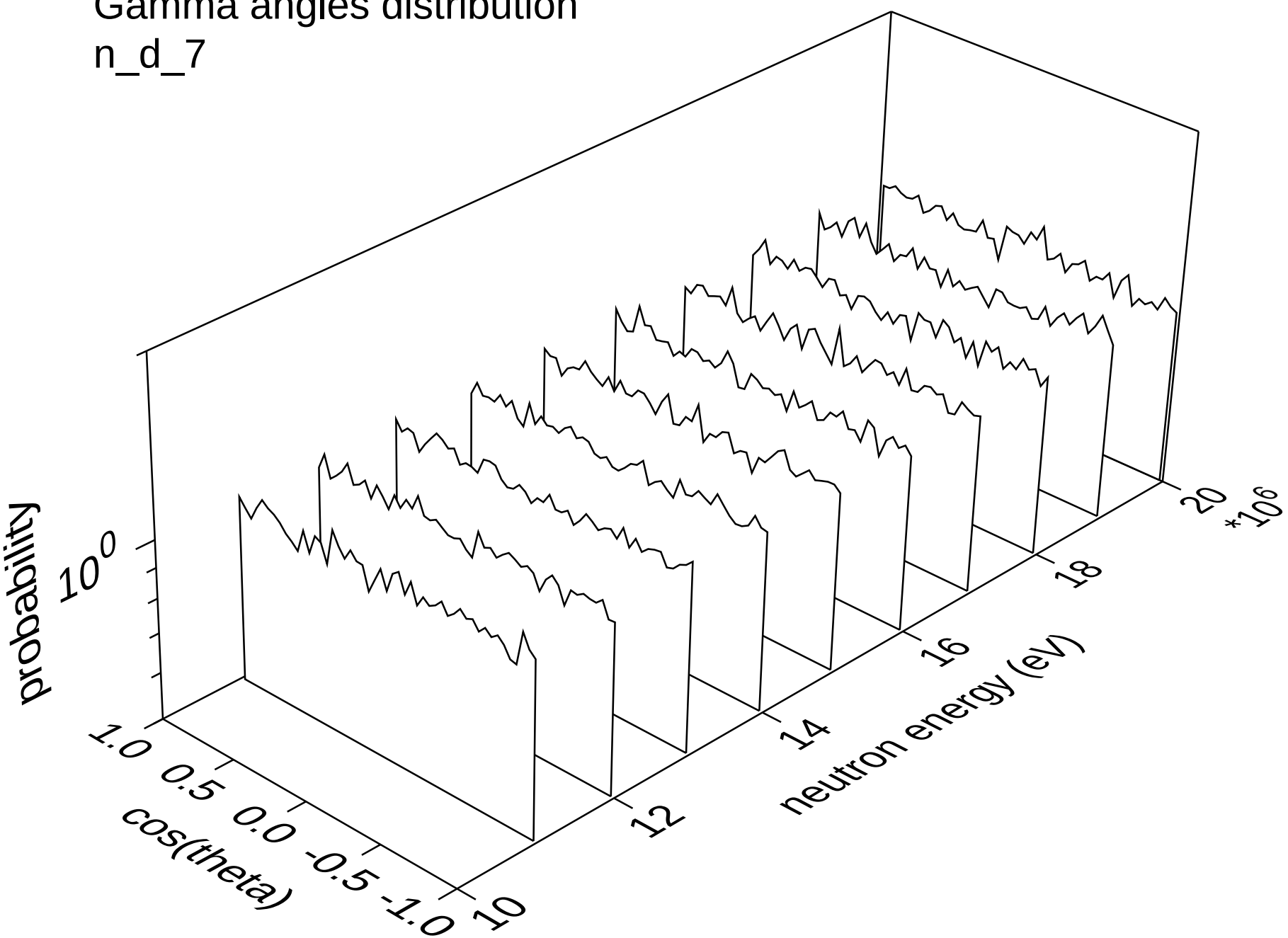

Gamma energy distribution
n_d_6
probability
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
10
12
14
16
18
20
*10^6


Gamma angles distribution
n_d_6
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

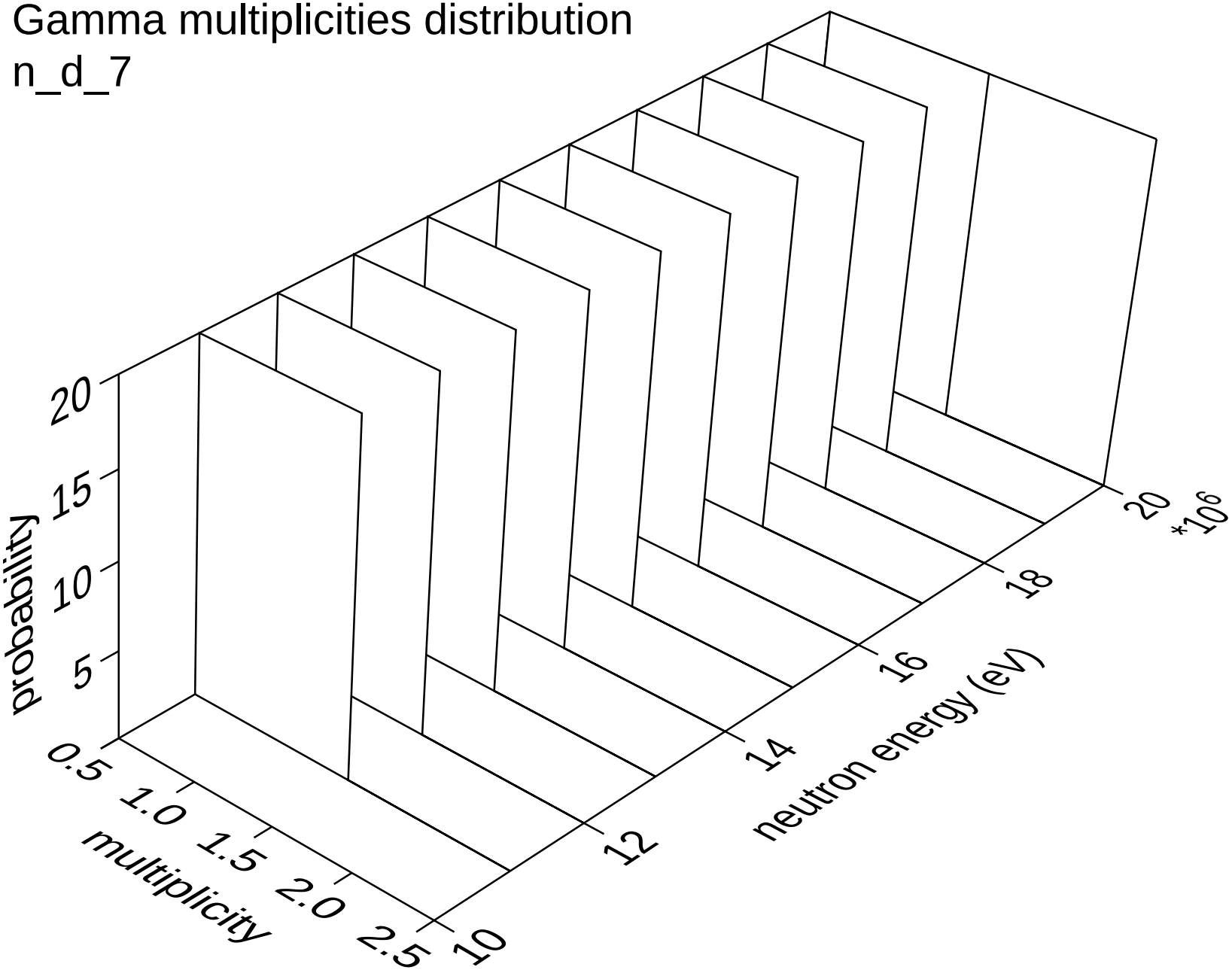
Gamma multiplicities distribution
n_d_6

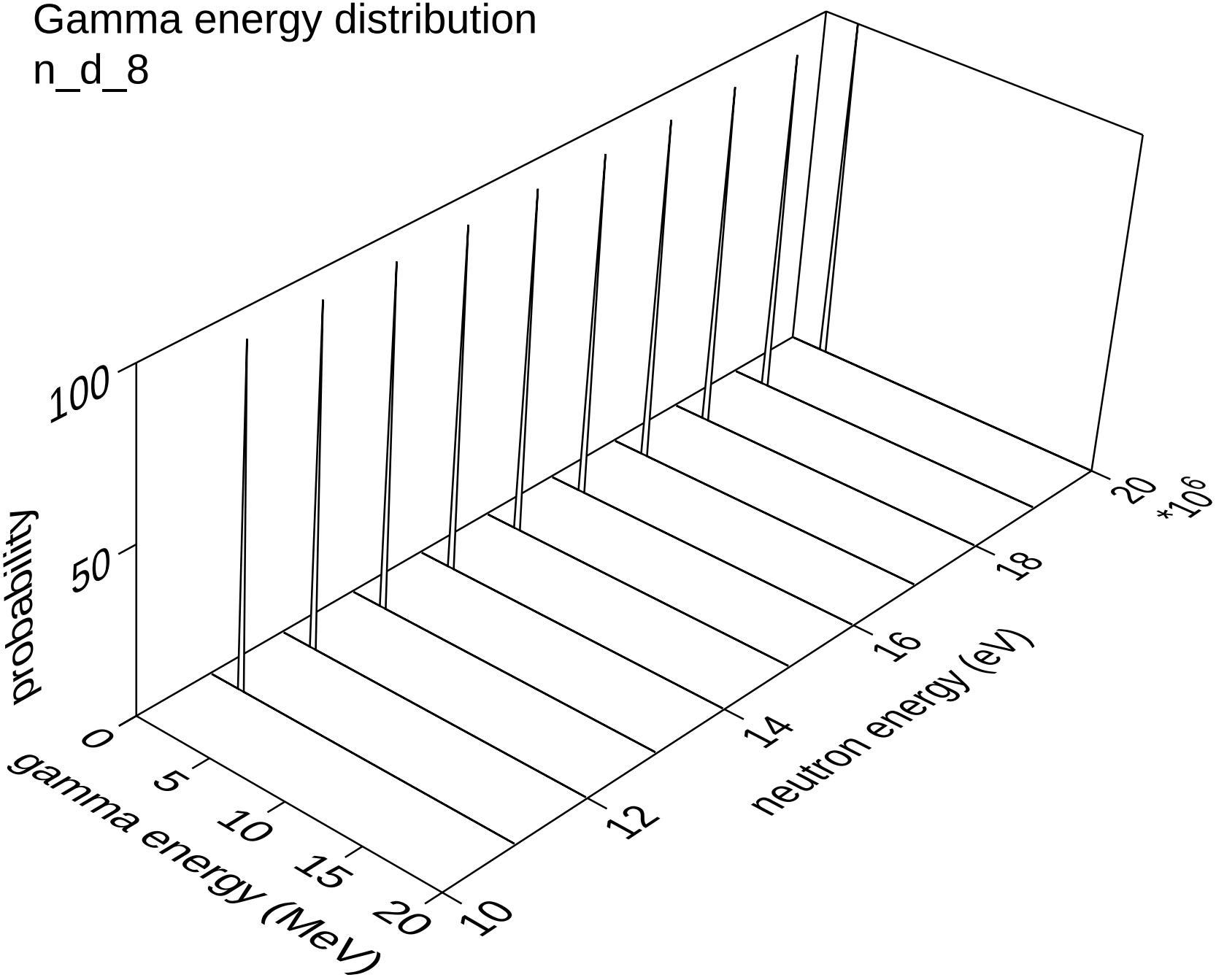


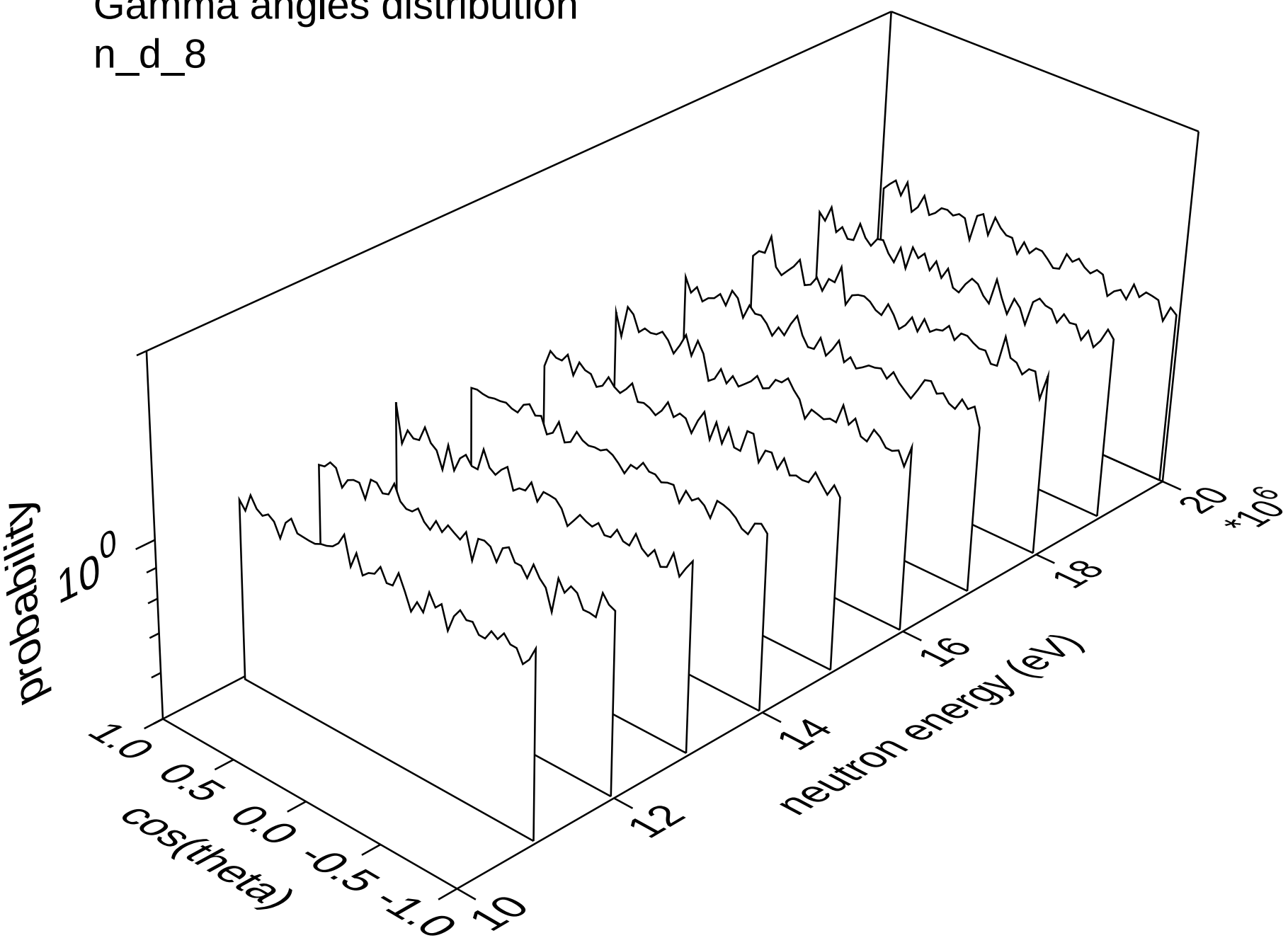

Gamma energy distribution
n_d_7
probability
100
50
0
gamma energy (MeV)
5
10
15
20
10
12
14
16
18
20
*10^6
neutron energy (eV)


Gamma angles distribution
n_d_7
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

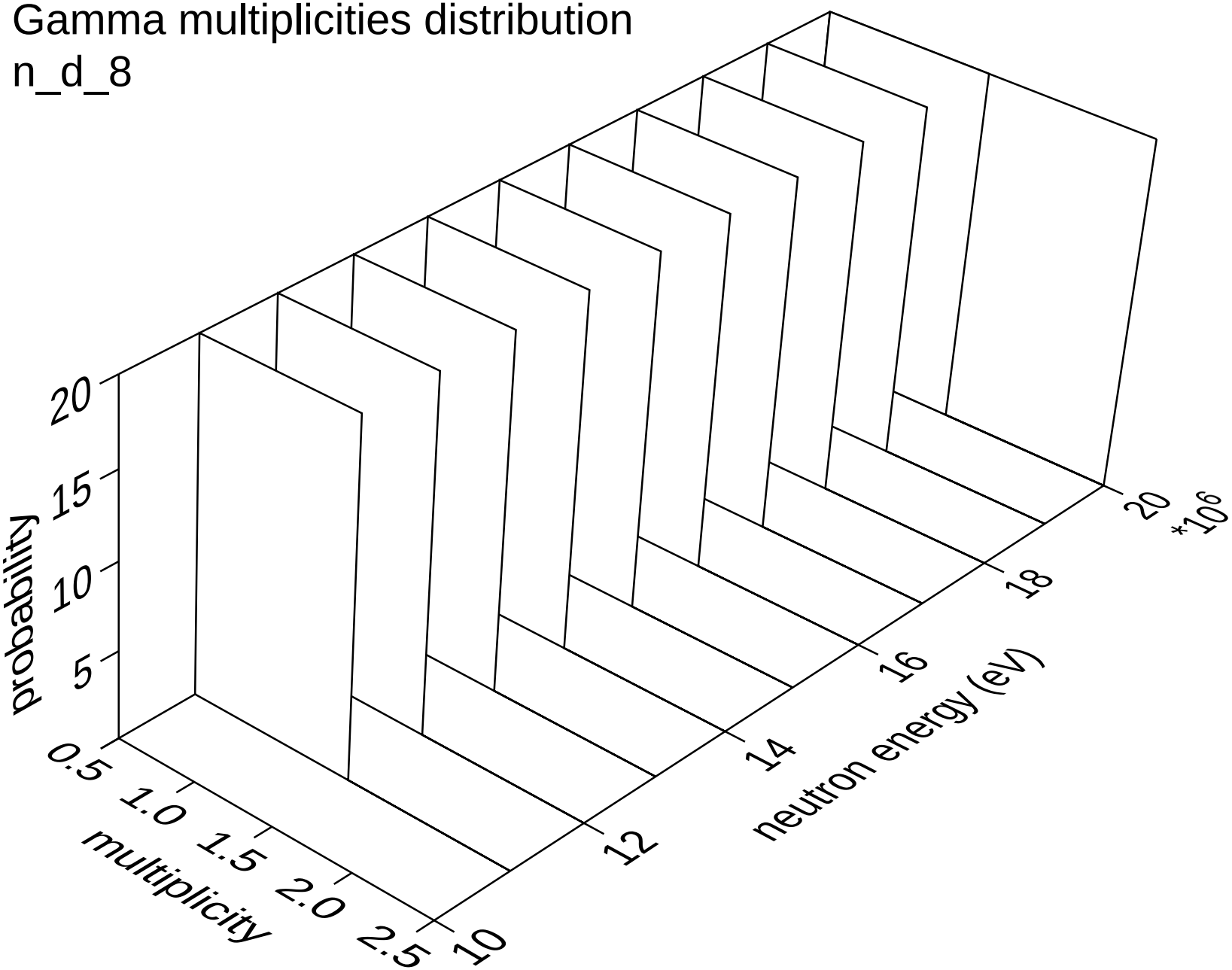
Gamma multiplicities distribution
n_d_7

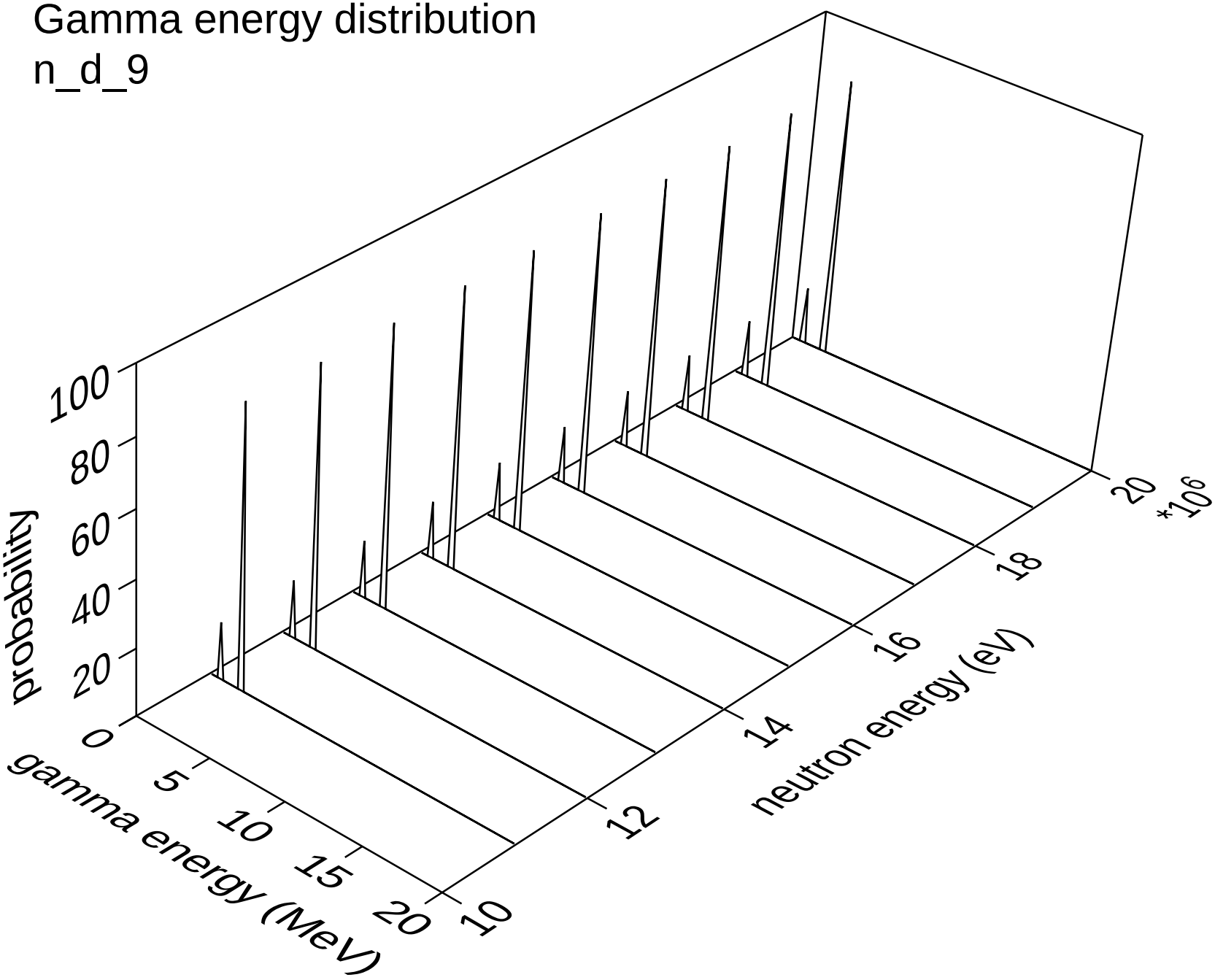


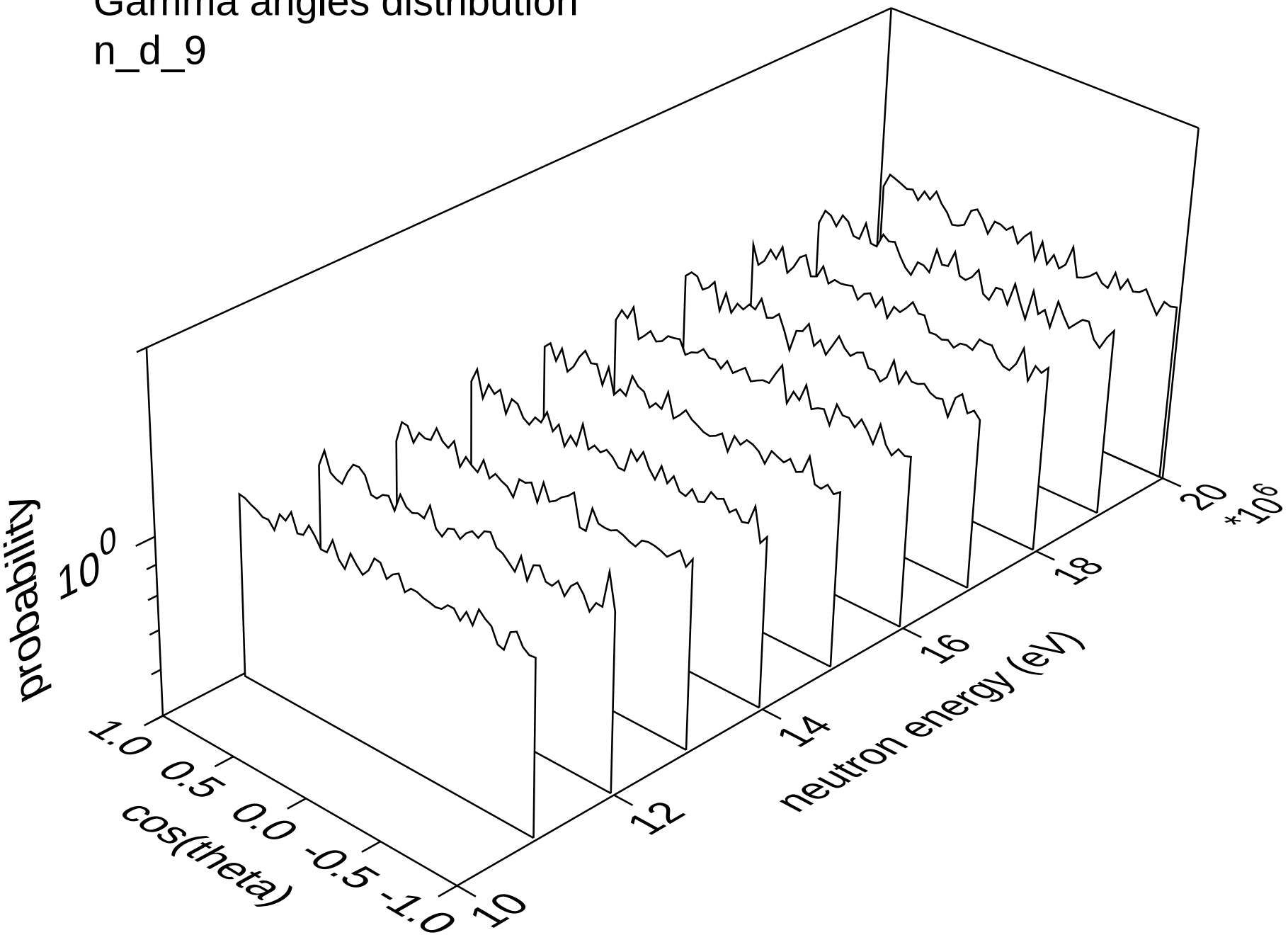

Gamma energy distribution
n_d_8
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
10
12
14
16
18
20
*10^6


Gamma angles distribution
n_d_8
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

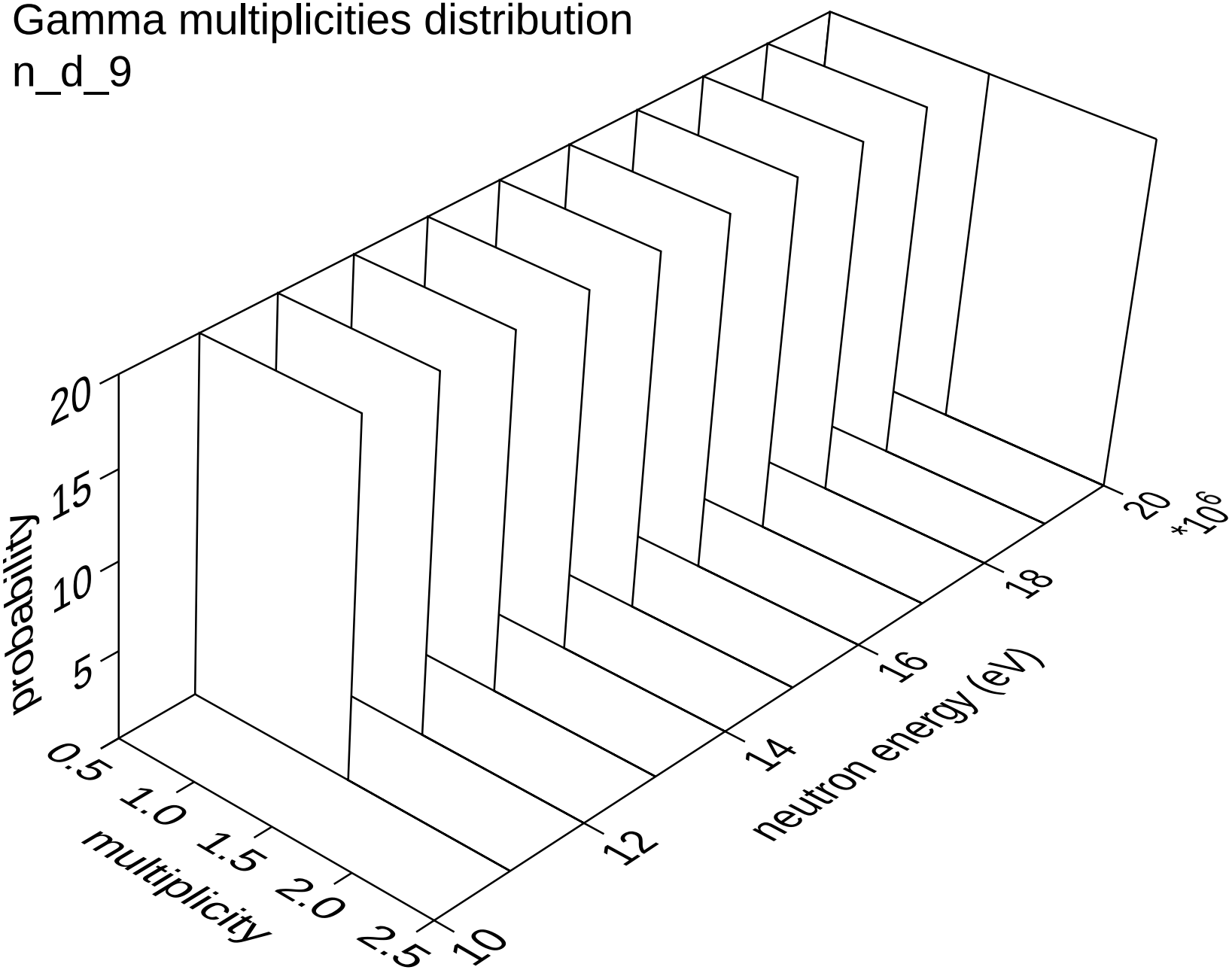
Gamma multiplicities distribution
n_d_8

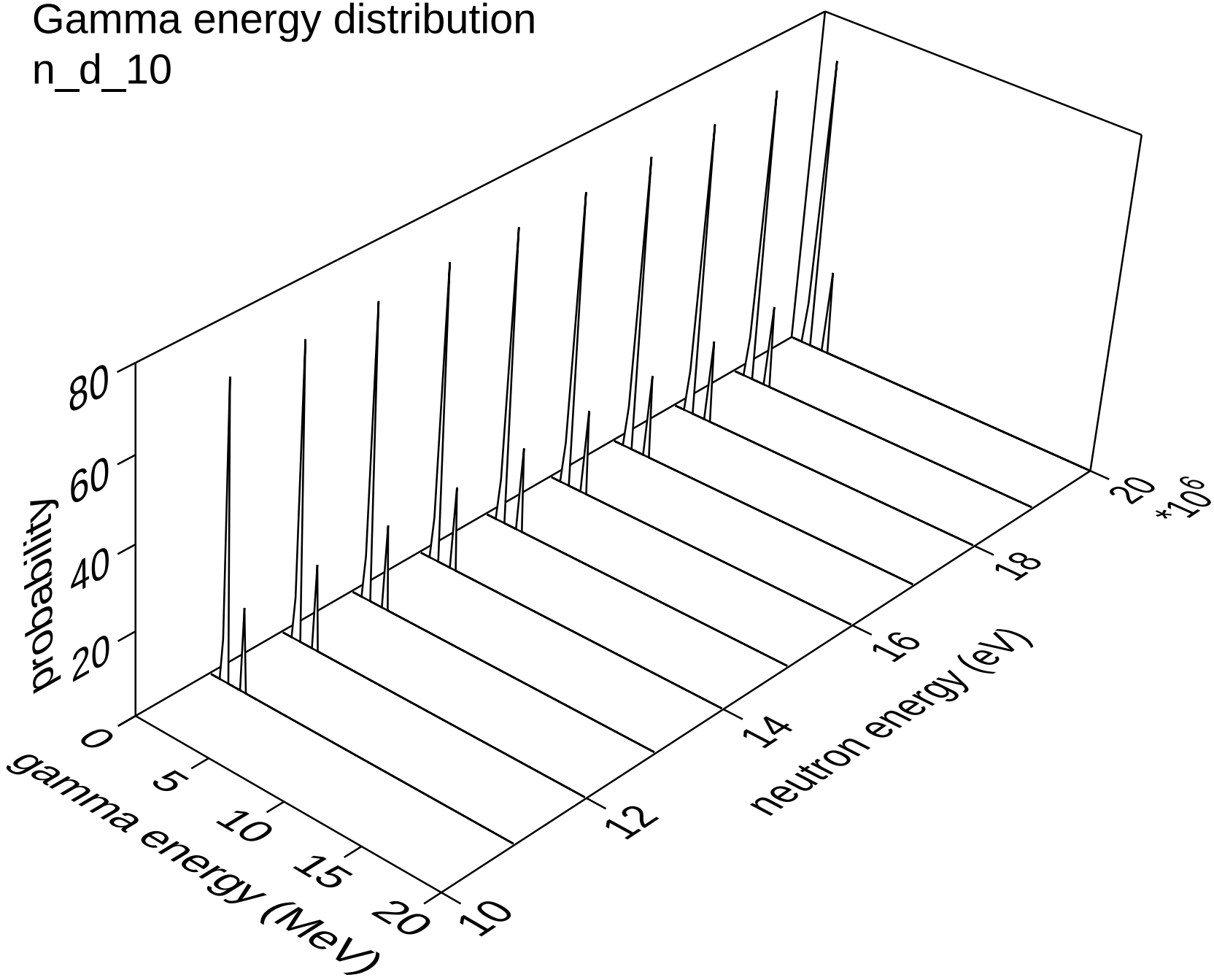


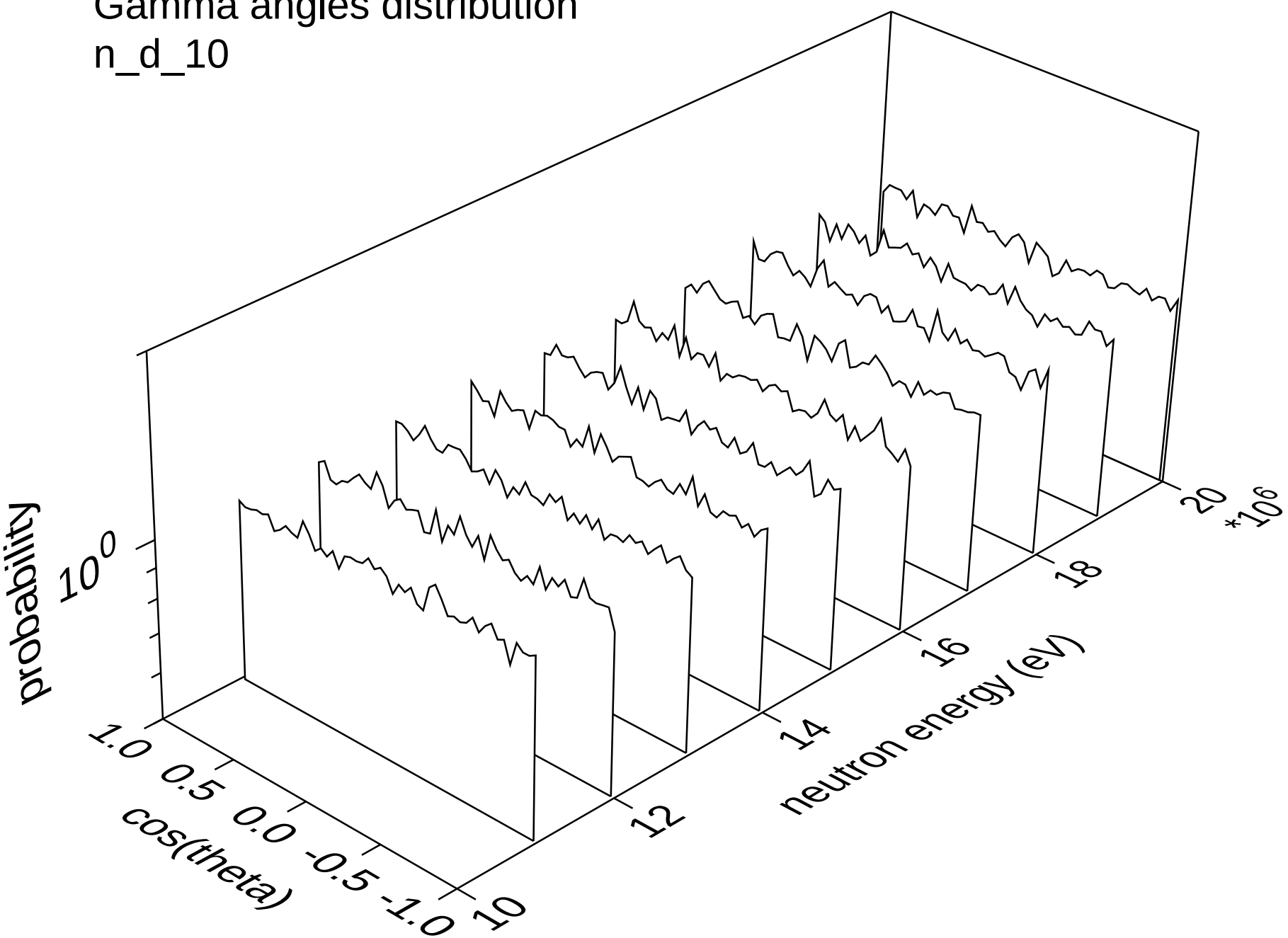

Gamma energy distribution
n_d_9
probability
100
80
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
10
12
14
16
18
20
*10^6

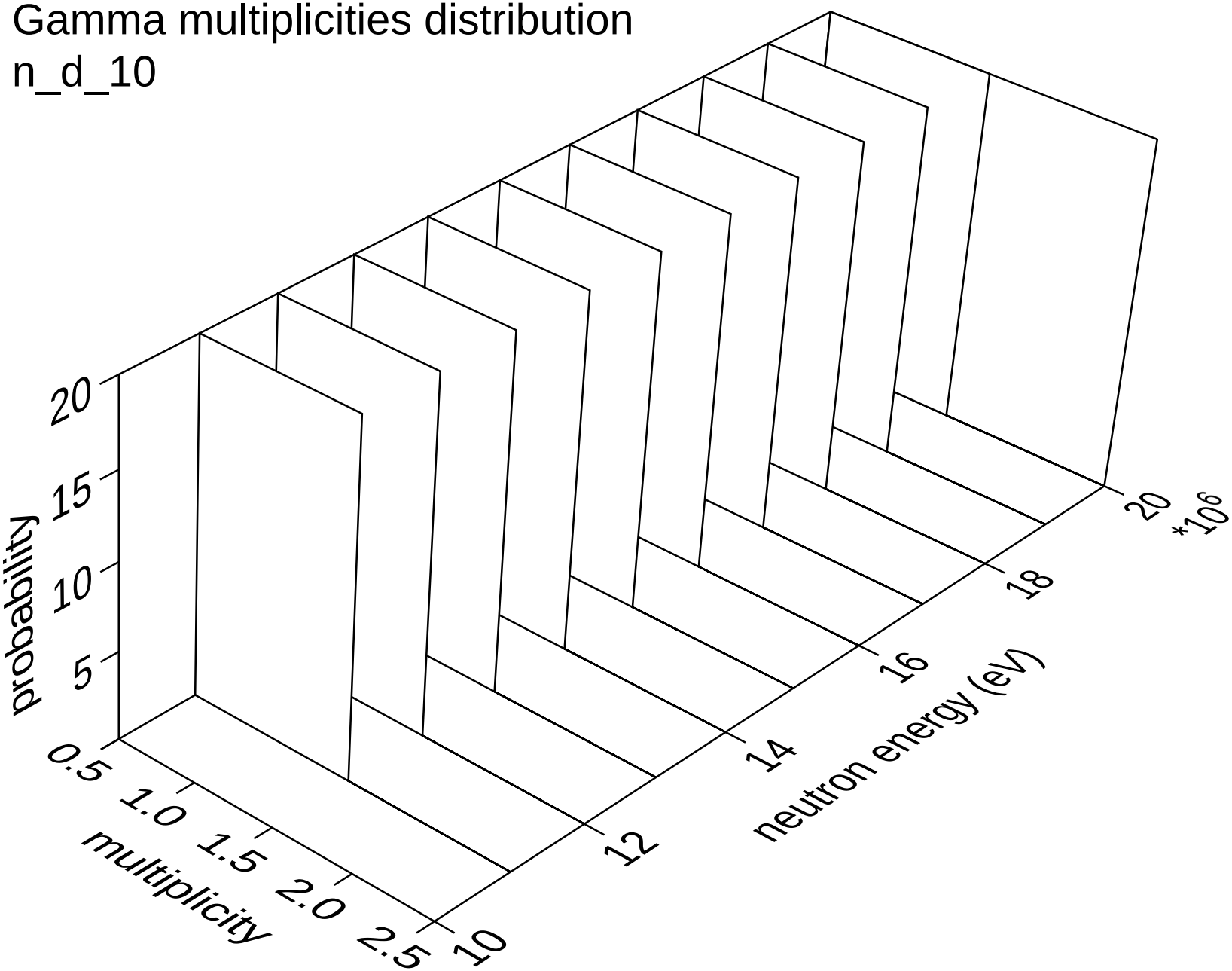

Gamma angles distribution
n_d_9
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

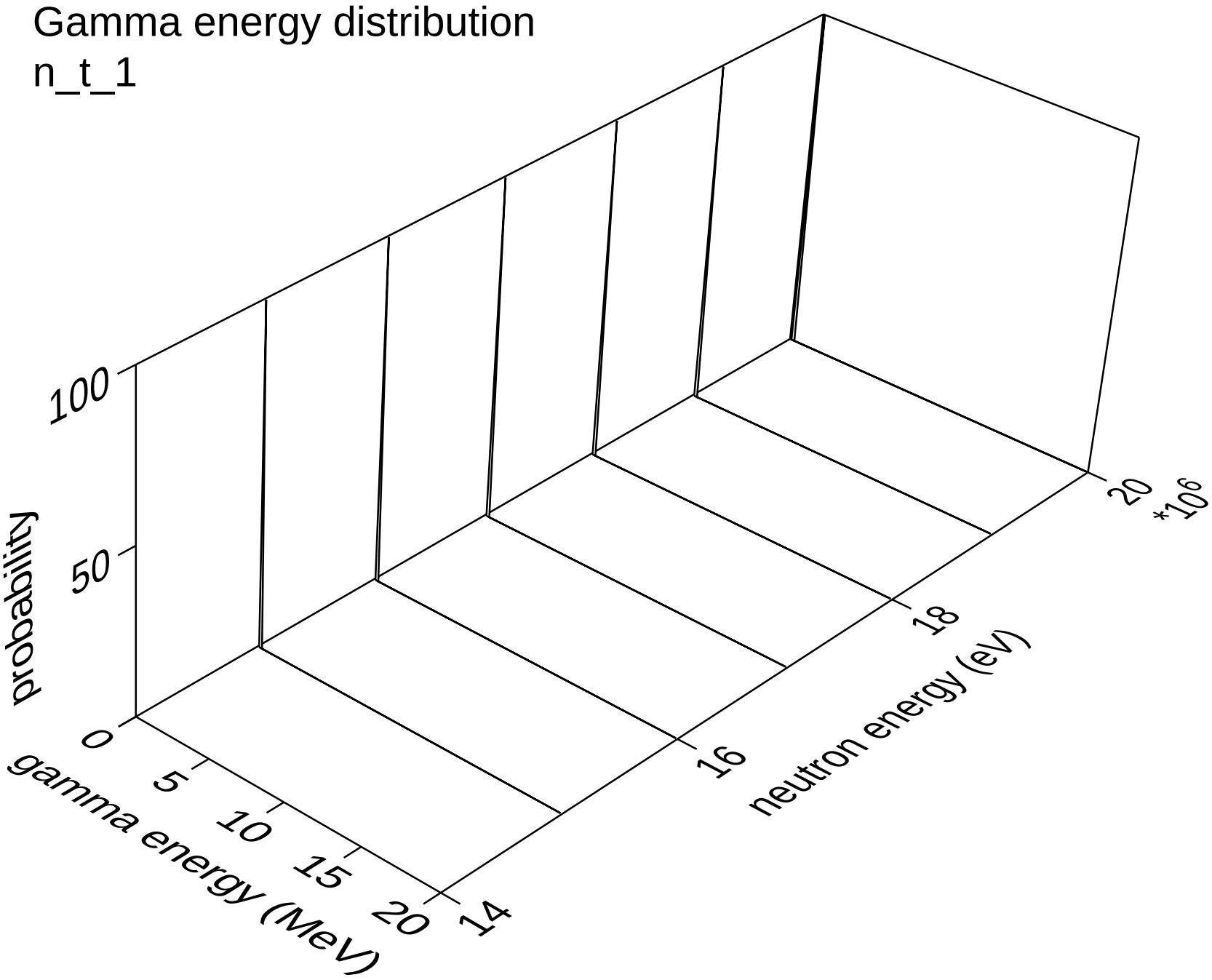
Gamma multiplicities distribution
n_d_9

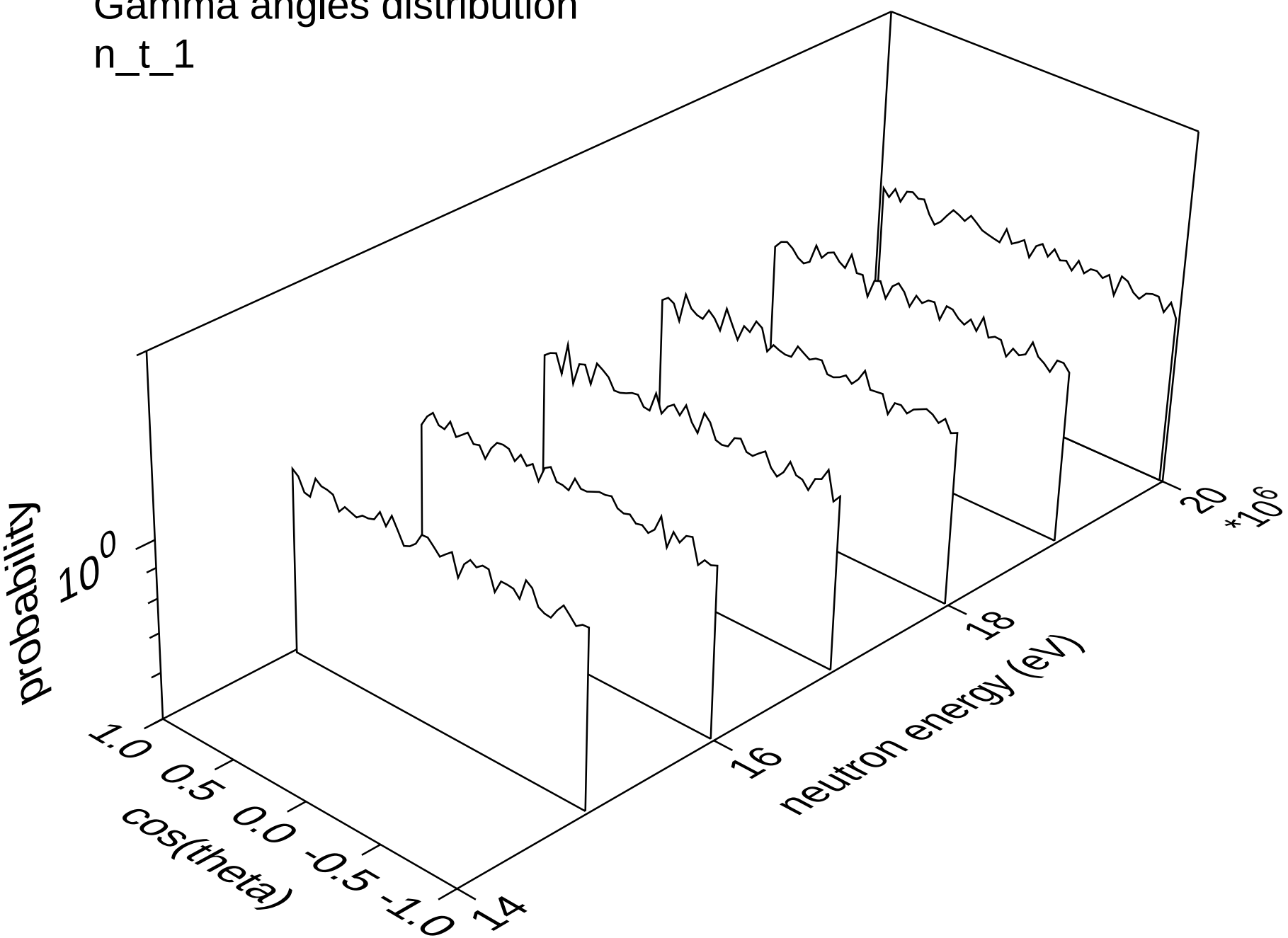


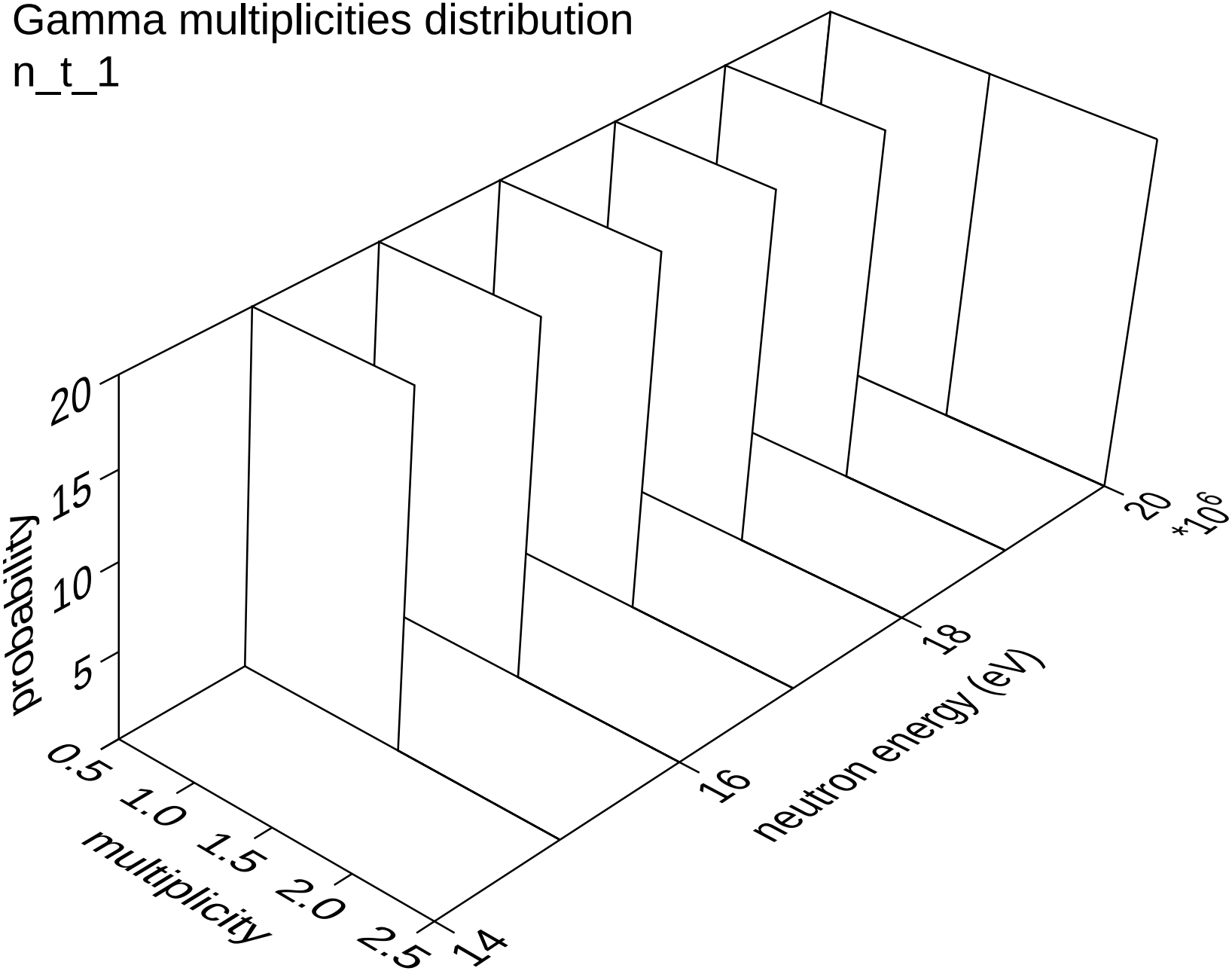

Gamma energy distribution
n_d_10
probability
80
60
40
20
0
gamma energy (MeV)
5
10
15
20
neutron energy (eV)
10
12
14
16
18
20
*10^6

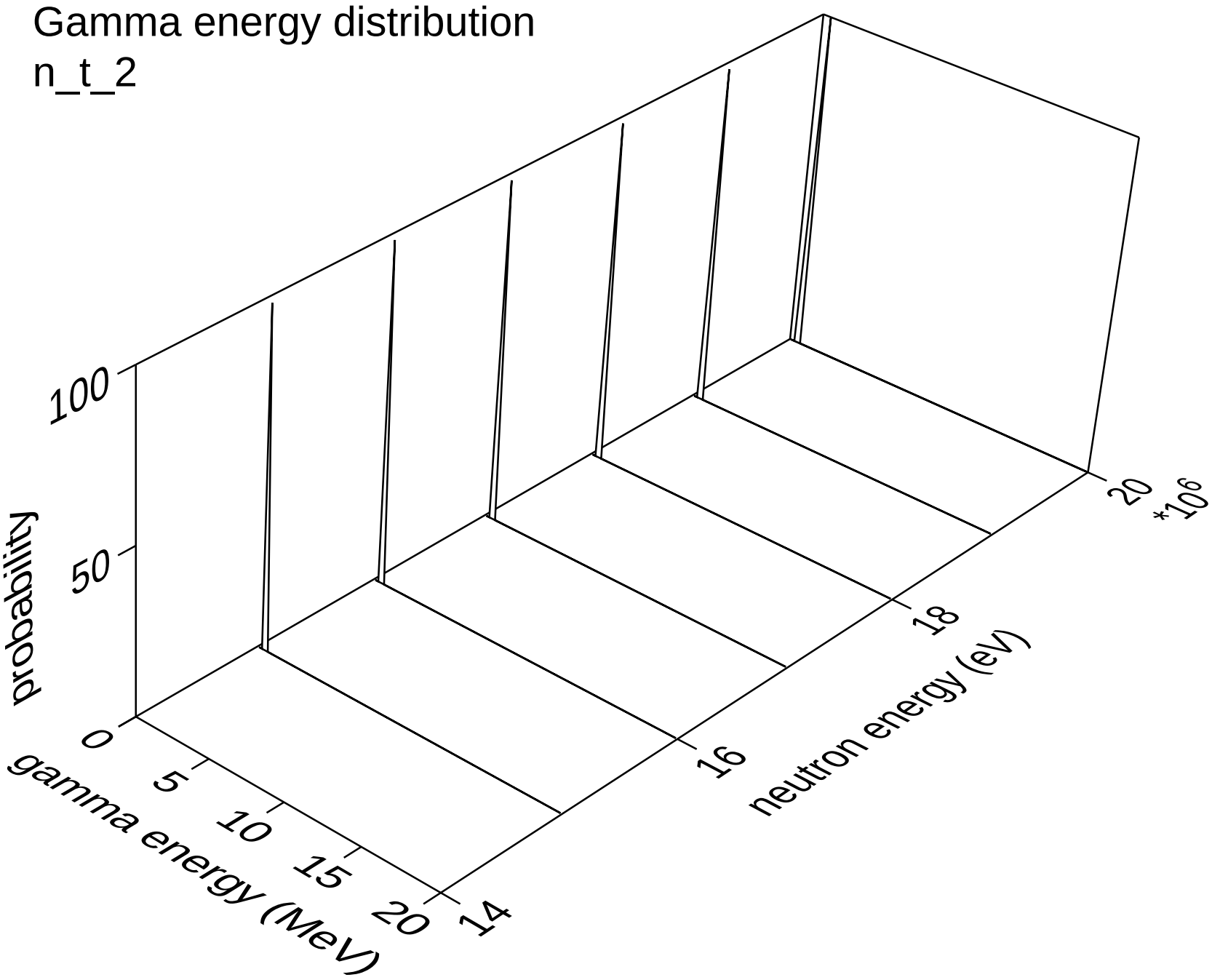

Gamma angles distribution
n_d_10
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

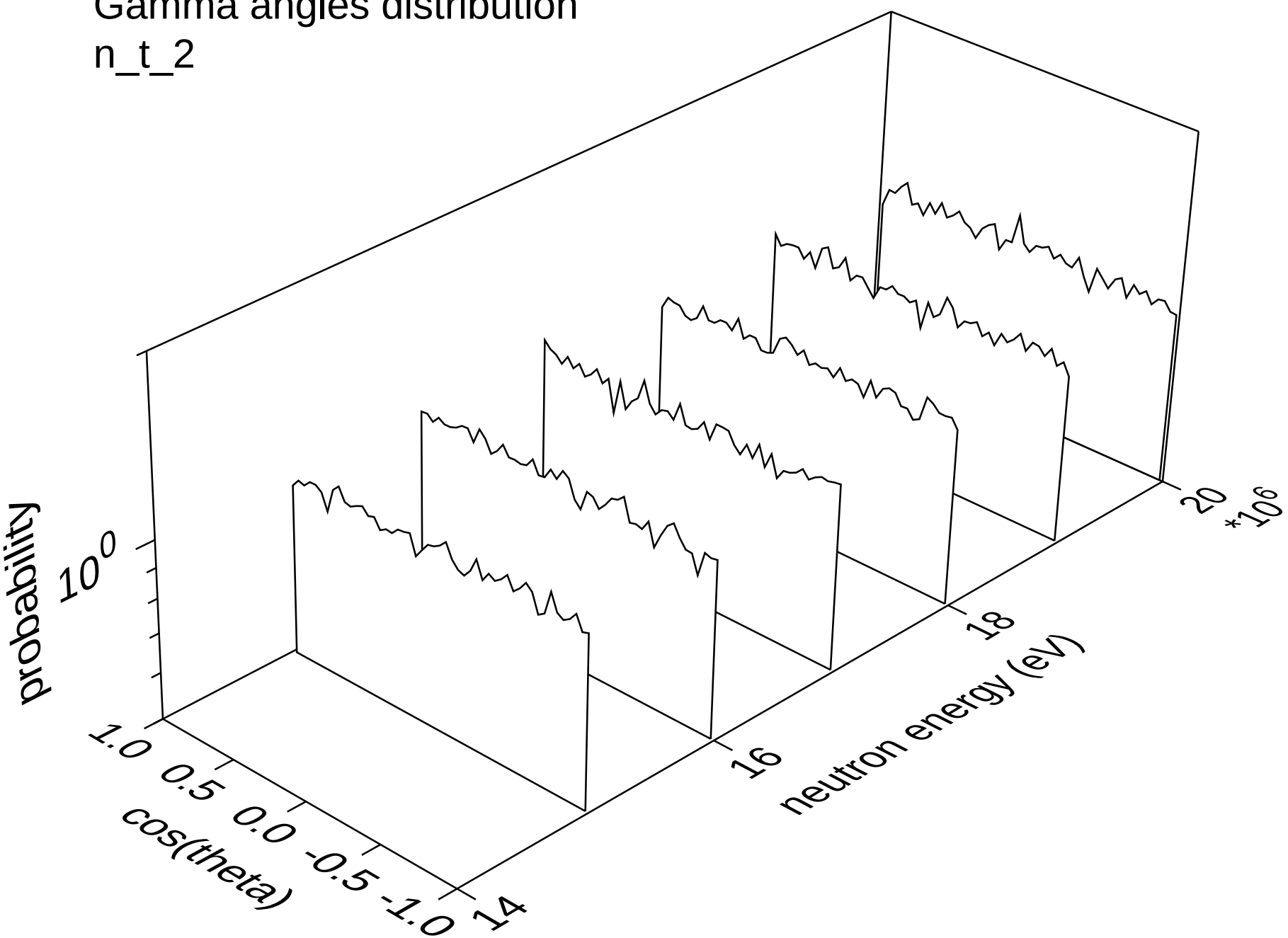

Gamma multiplicities distribution
n_d_10
probability
20
15
10
5
0.5
1.0
1.5
2.0
2.5
multiplicity
10
12
14
16
18
20
*10^6
neutron energy (eV)

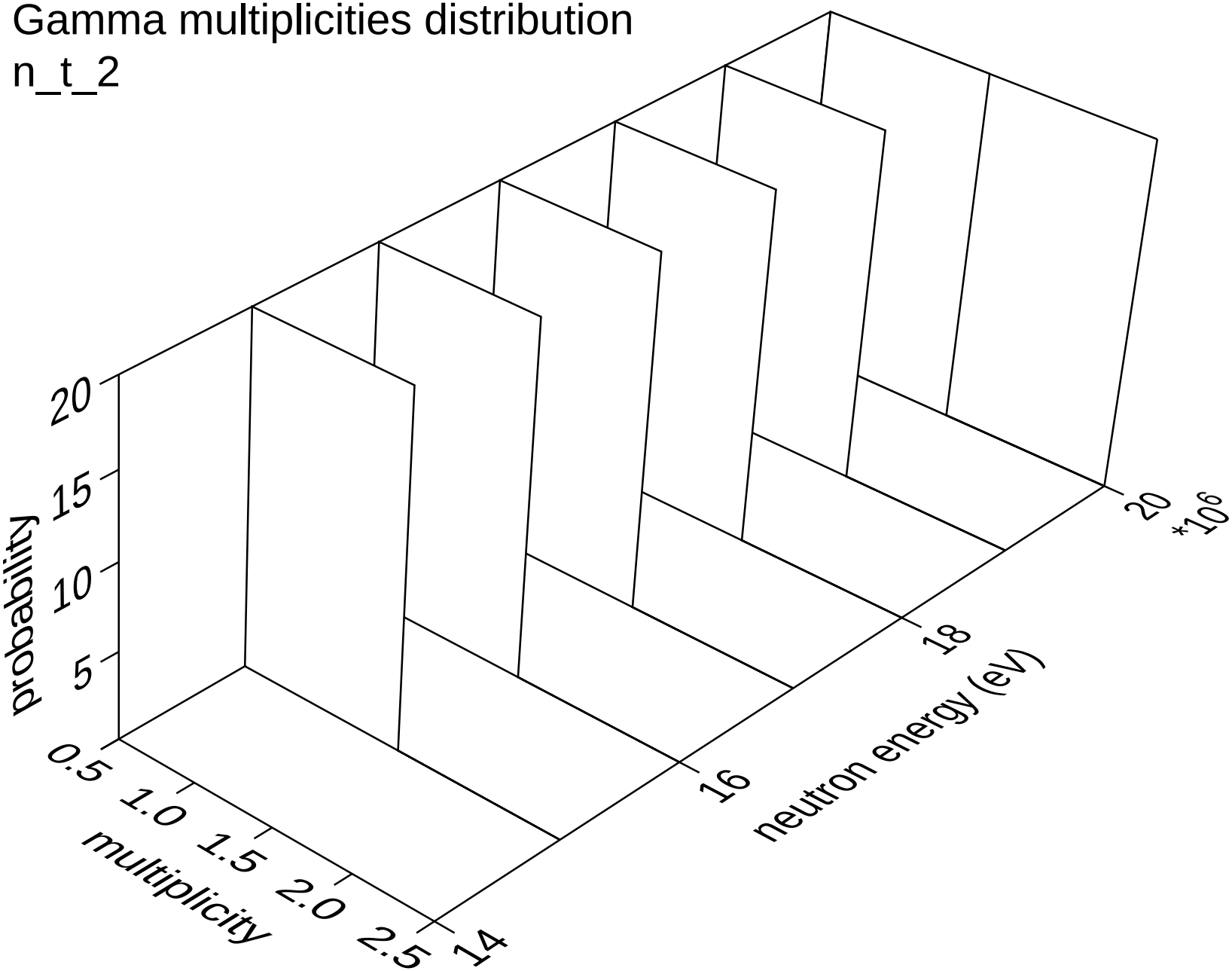

Gamma energy distribution
n_t_1
probability
100
50
0
gamma energy (MeV)
5
10
15
20
14
16
neutron energy (eV)
18
20
*10^6

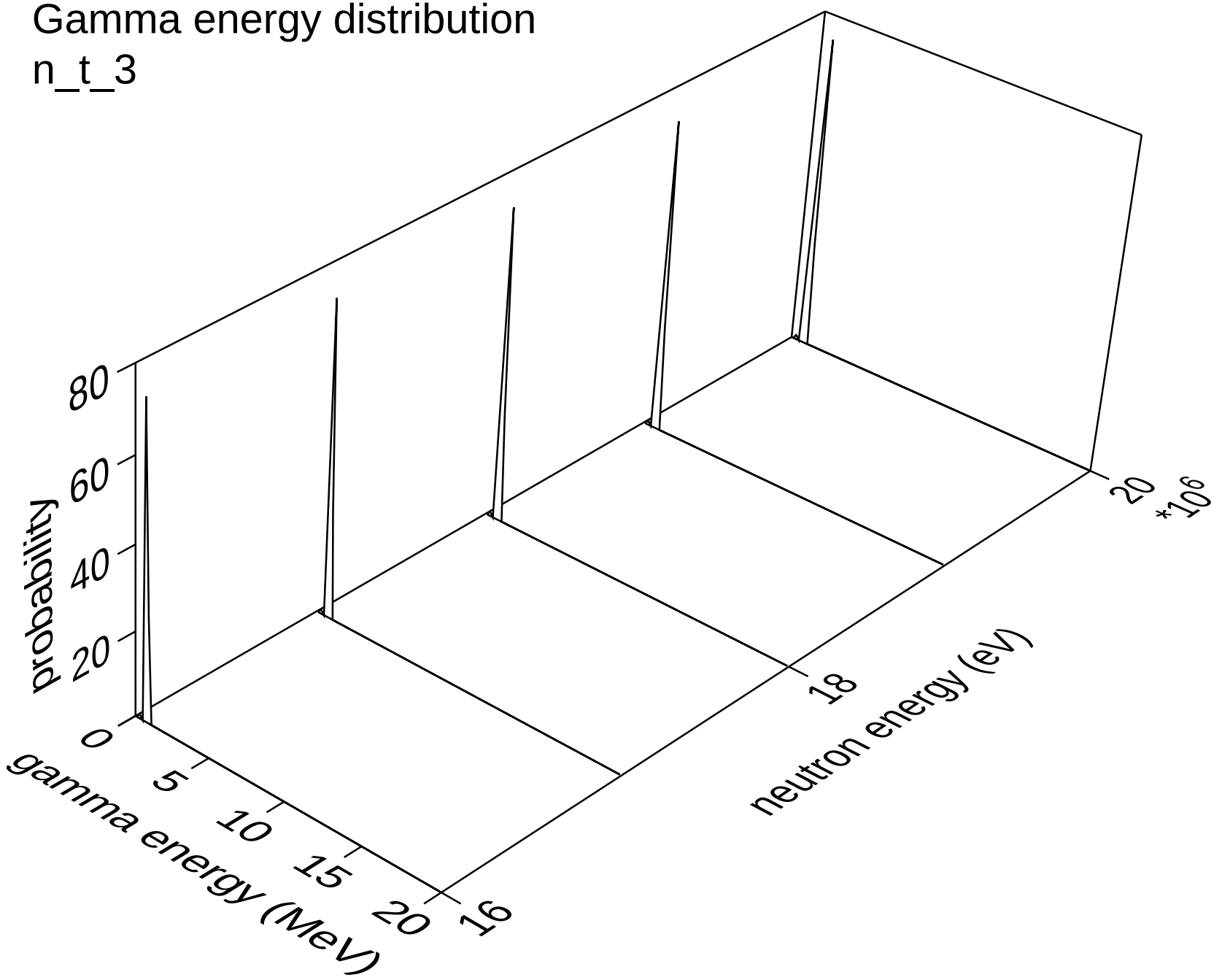

Gamma angles distribution
n_t_1
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
14
16
18
20
*10^6
neutron energy (eV)

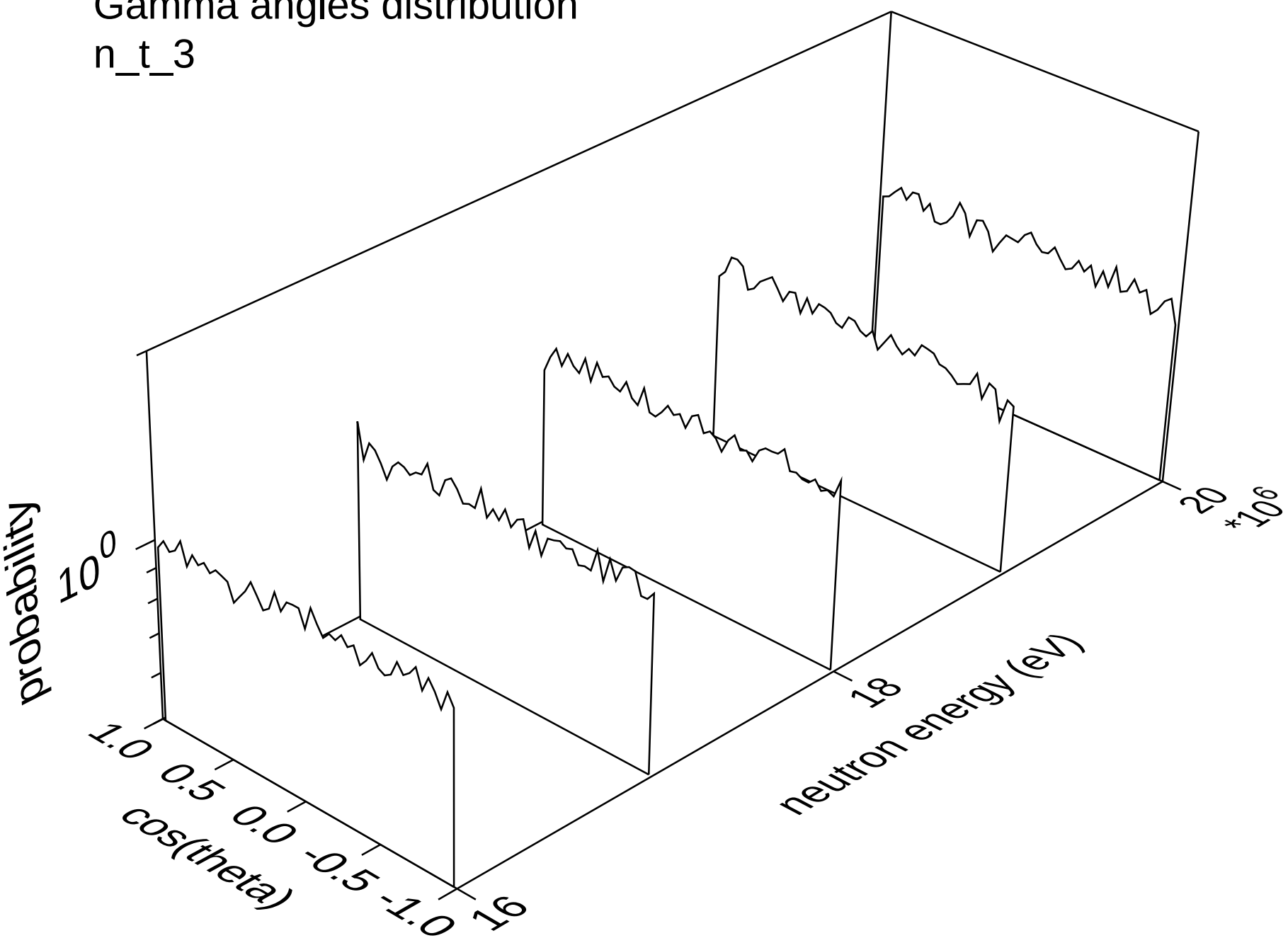

Gamma multiplicities distribution
n_t_1
probability
20
15
10
5
0.5
1.0
1.5
2.0
2.5
multiplicity
14
16
18
20
*10^6
neutron energy (eV)

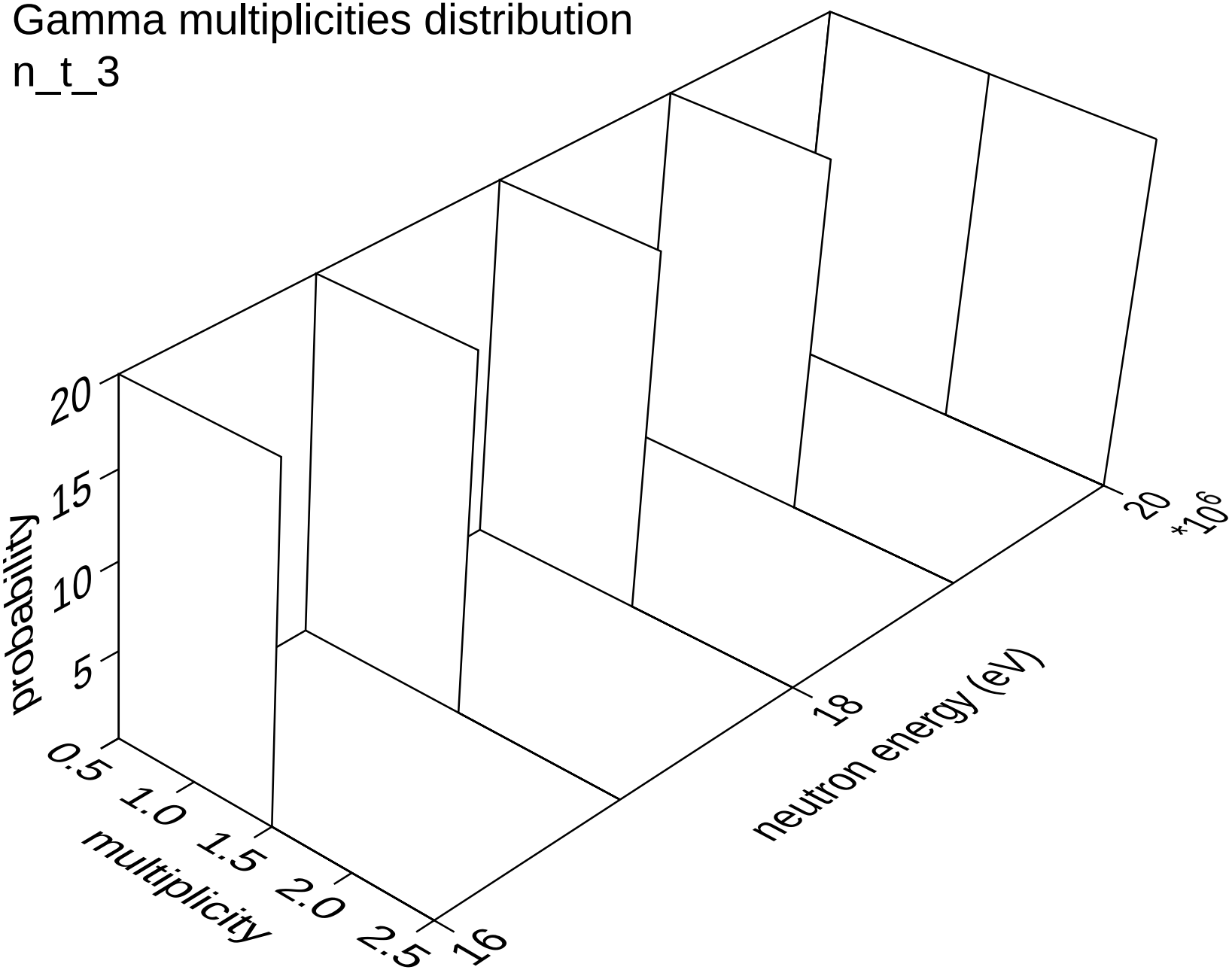

Gamma energy distribution
n_t_2
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
14
16
18
20
*10^6
neutron energy (eV)

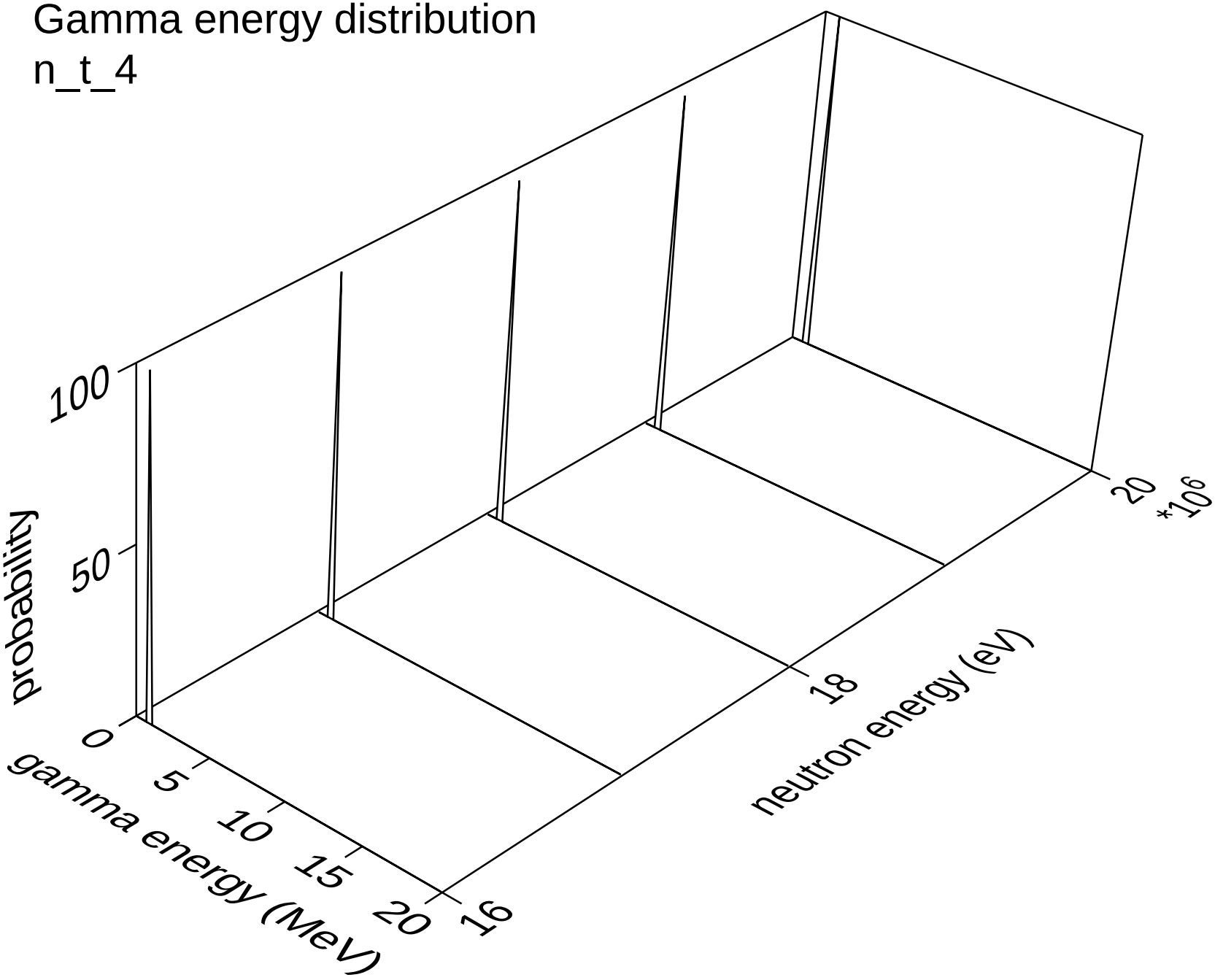

Gamma angles distribution
n_t_2
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
14
16
18
20
*10^6
neutron energy (eV)

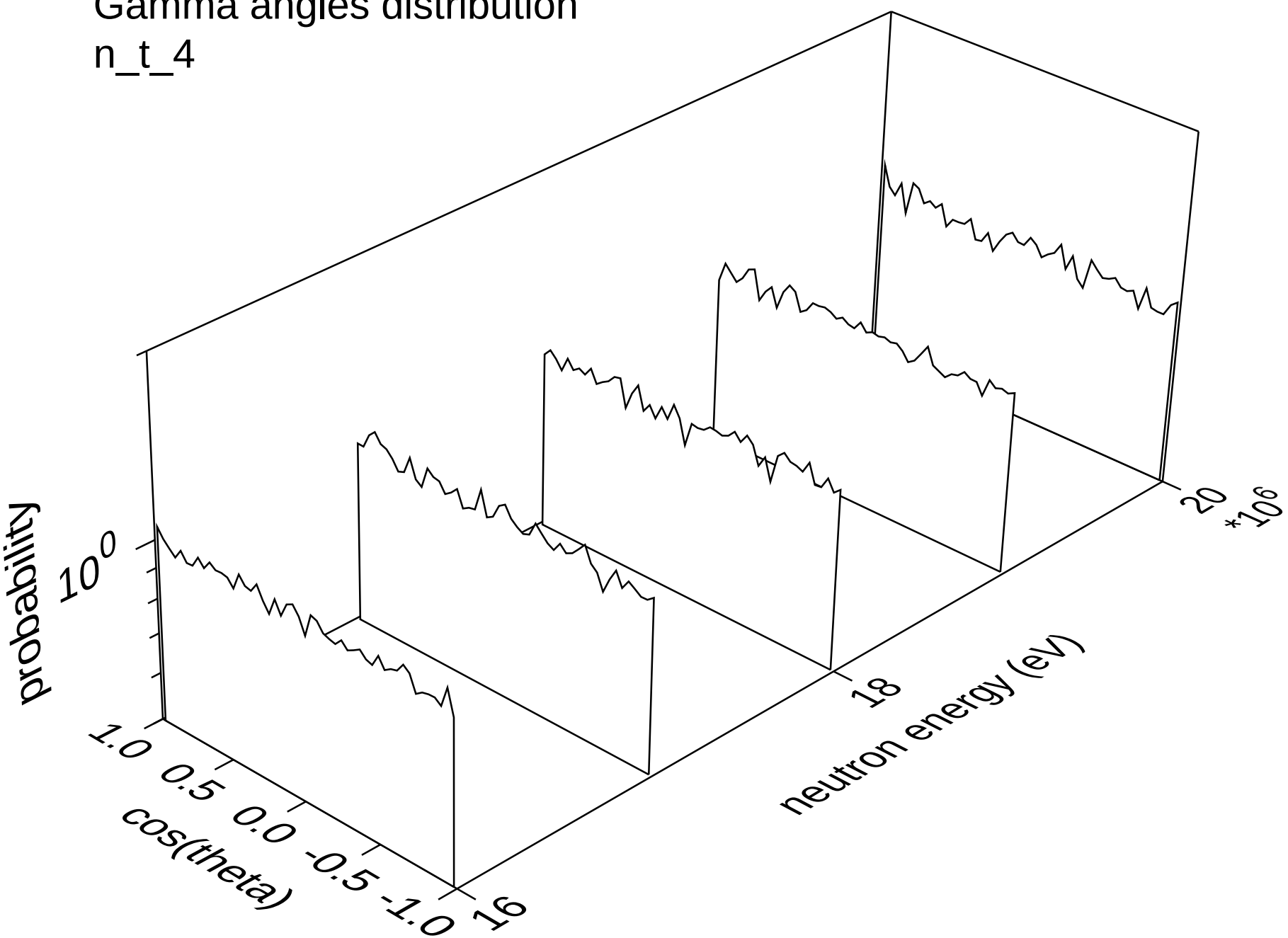

Gamma multiplicities distribution
n_t_2
probability
20
15
10
5
0.5
1.0
1.5
2.0
2.5
multiplicity
14
16
18
20
*10^6
neutron energy (eV)


Gamma energy distribution
n_t_3
probability
0
20
40
60
80
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
16
18
20
*10^6

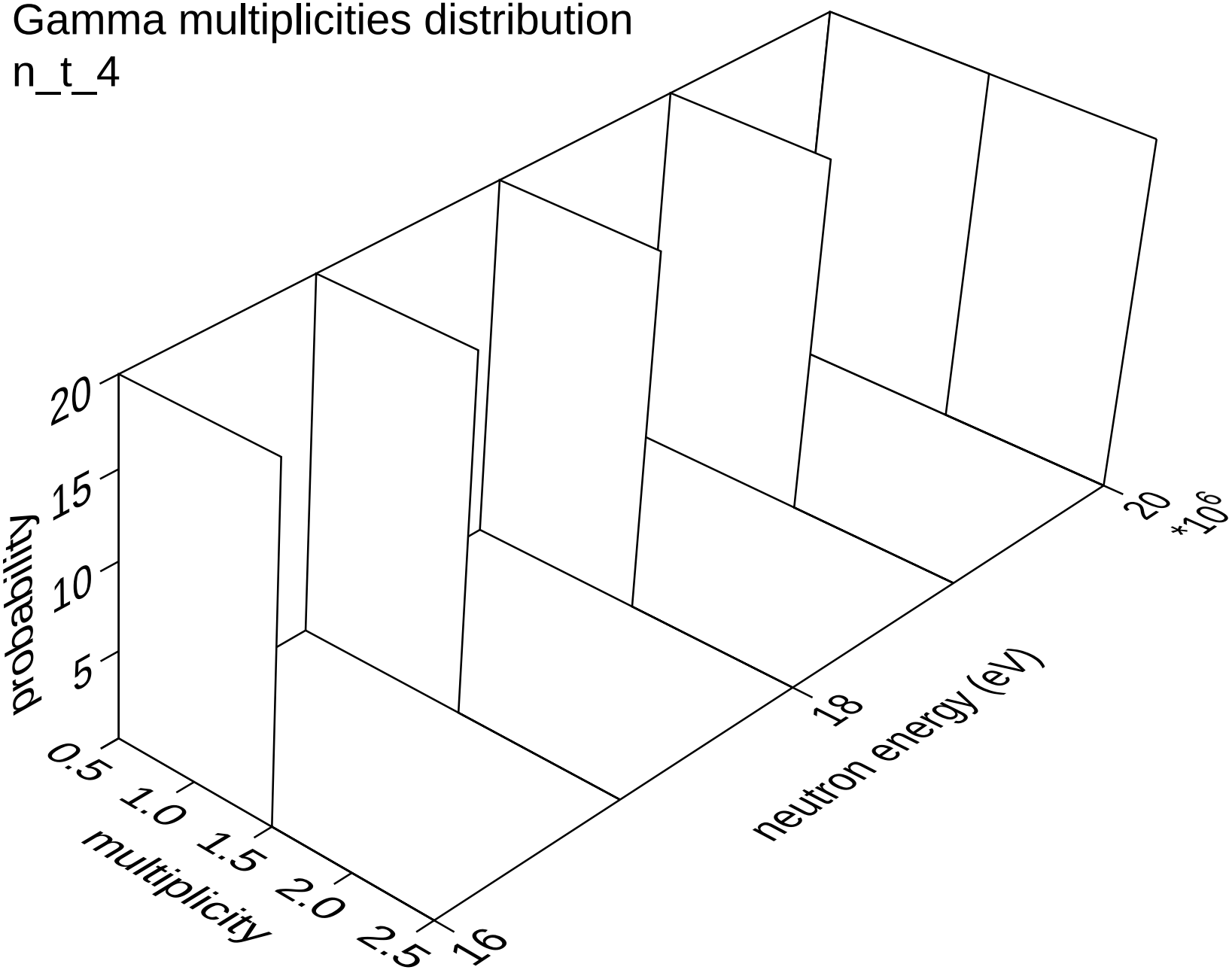

Gamma angles distribution
n_t_3
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

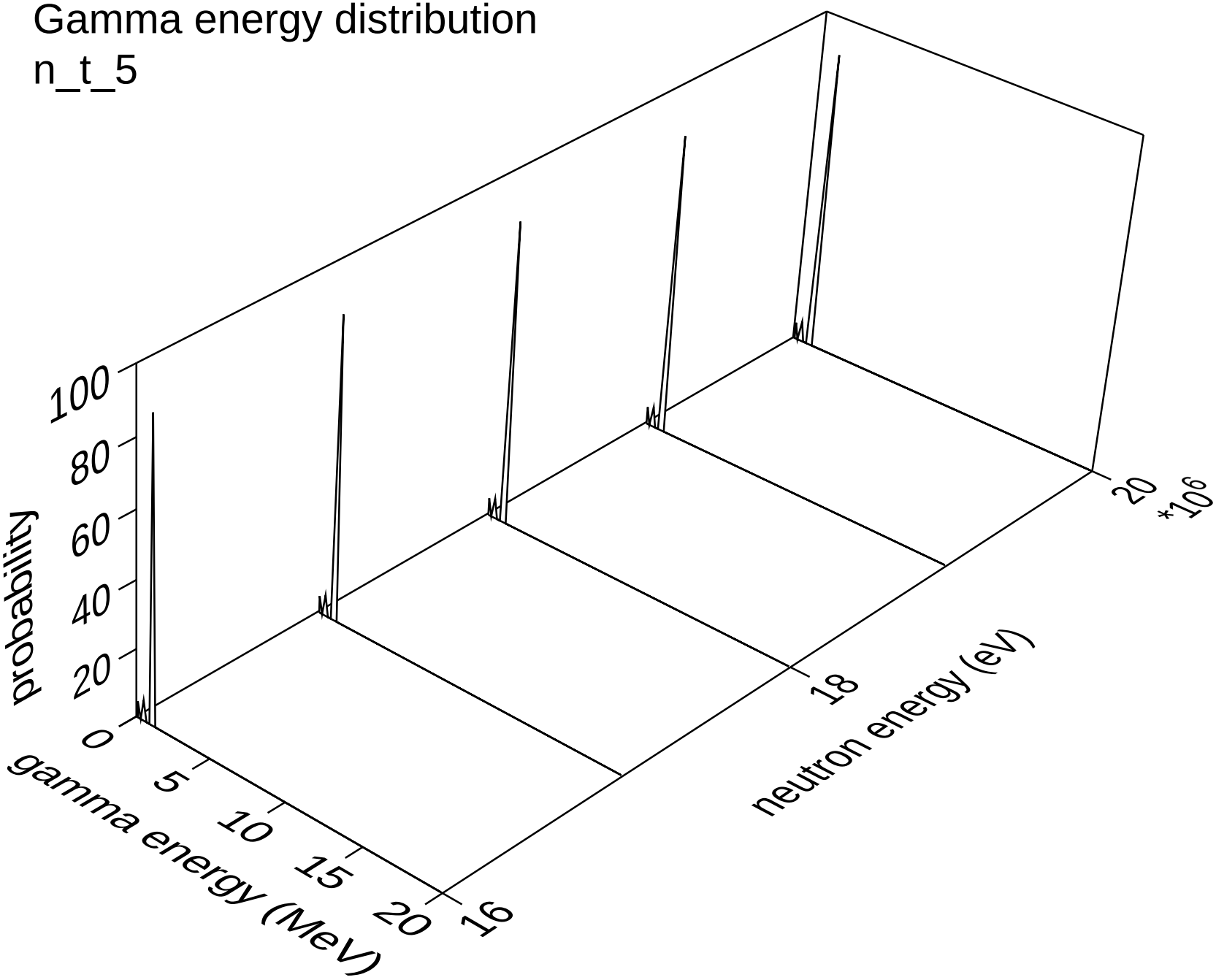

Gamma multiplicities distribution
n_t_3
probability
20
15
10
5
0.5
1.0
1.5
2.0
2.5
multiplicity
16
18
20
*10^6
neutron energy (eV)

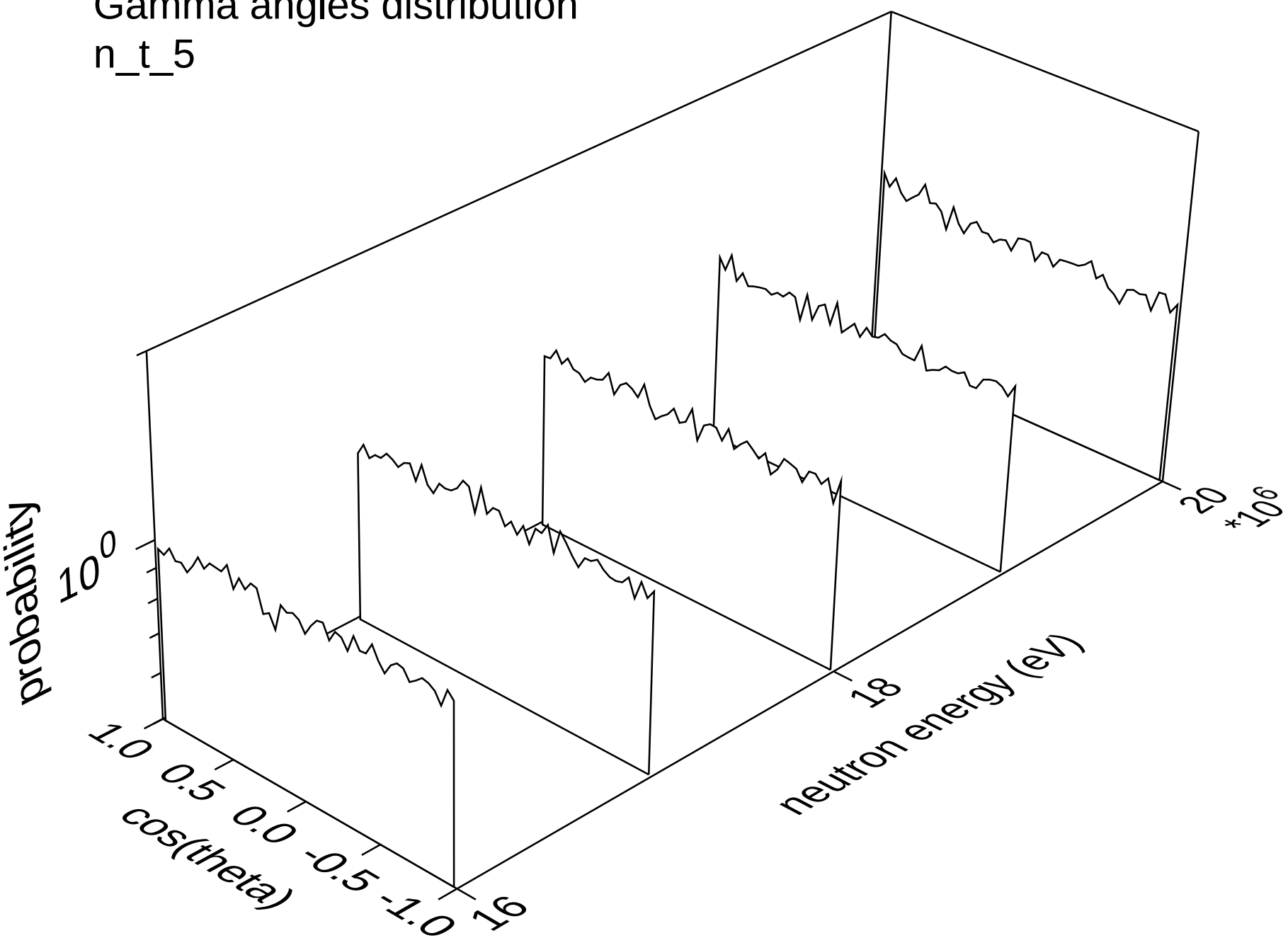

Gamma energy distribution
n_t_4
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
16
18
20
*10^6


Gamma angles distribution
n_t_4
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

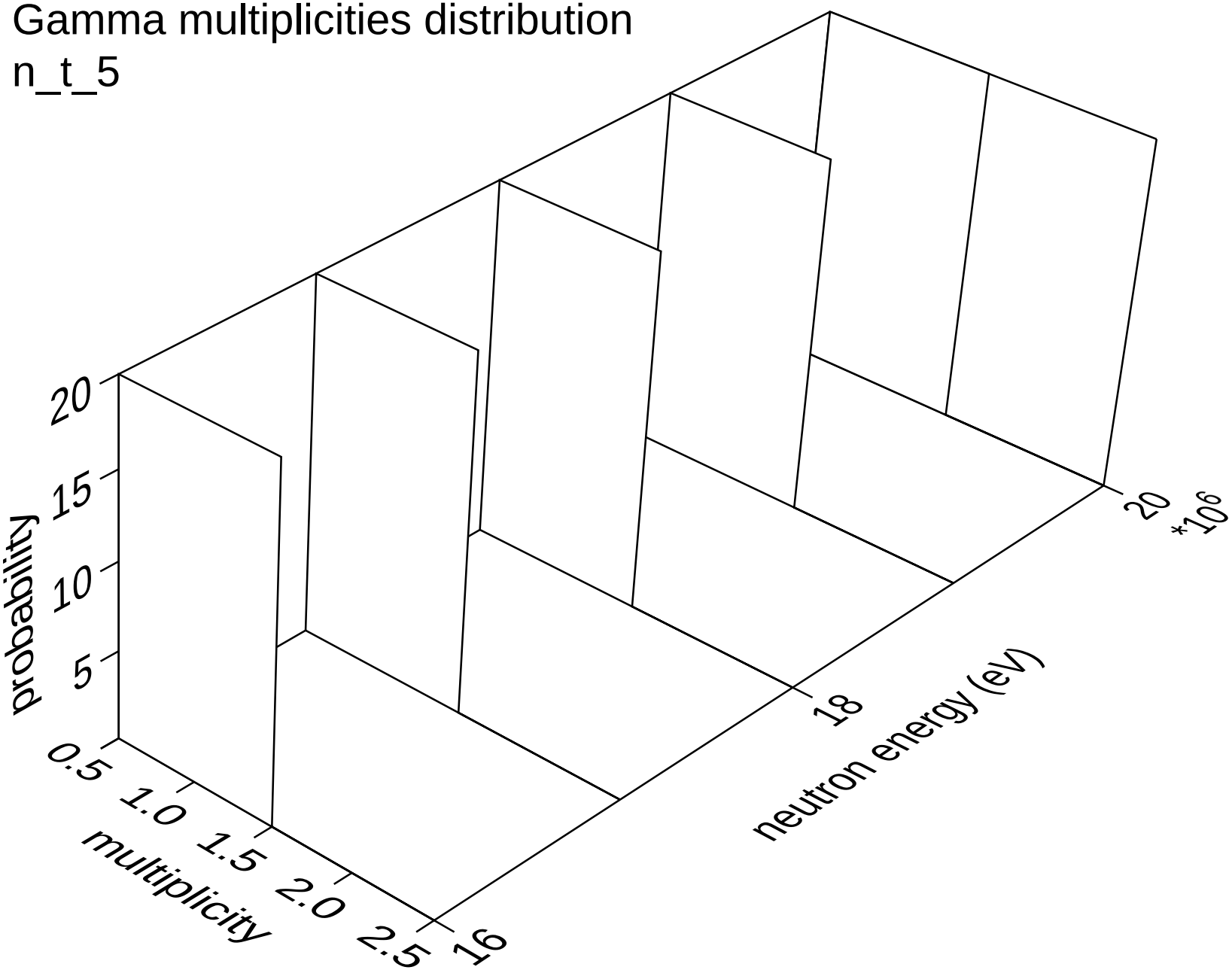
Gamma multiplicities distribution
n_t_4

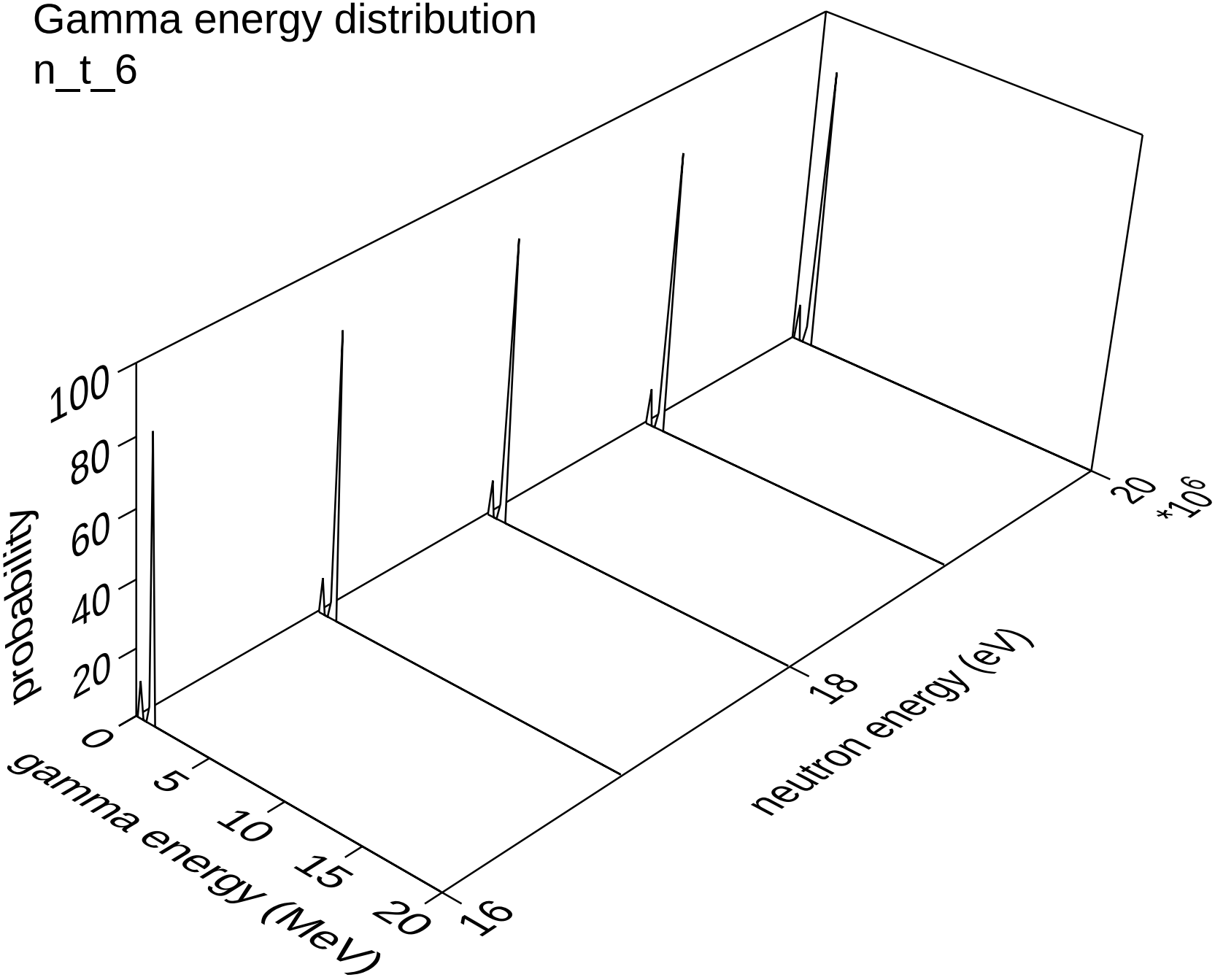


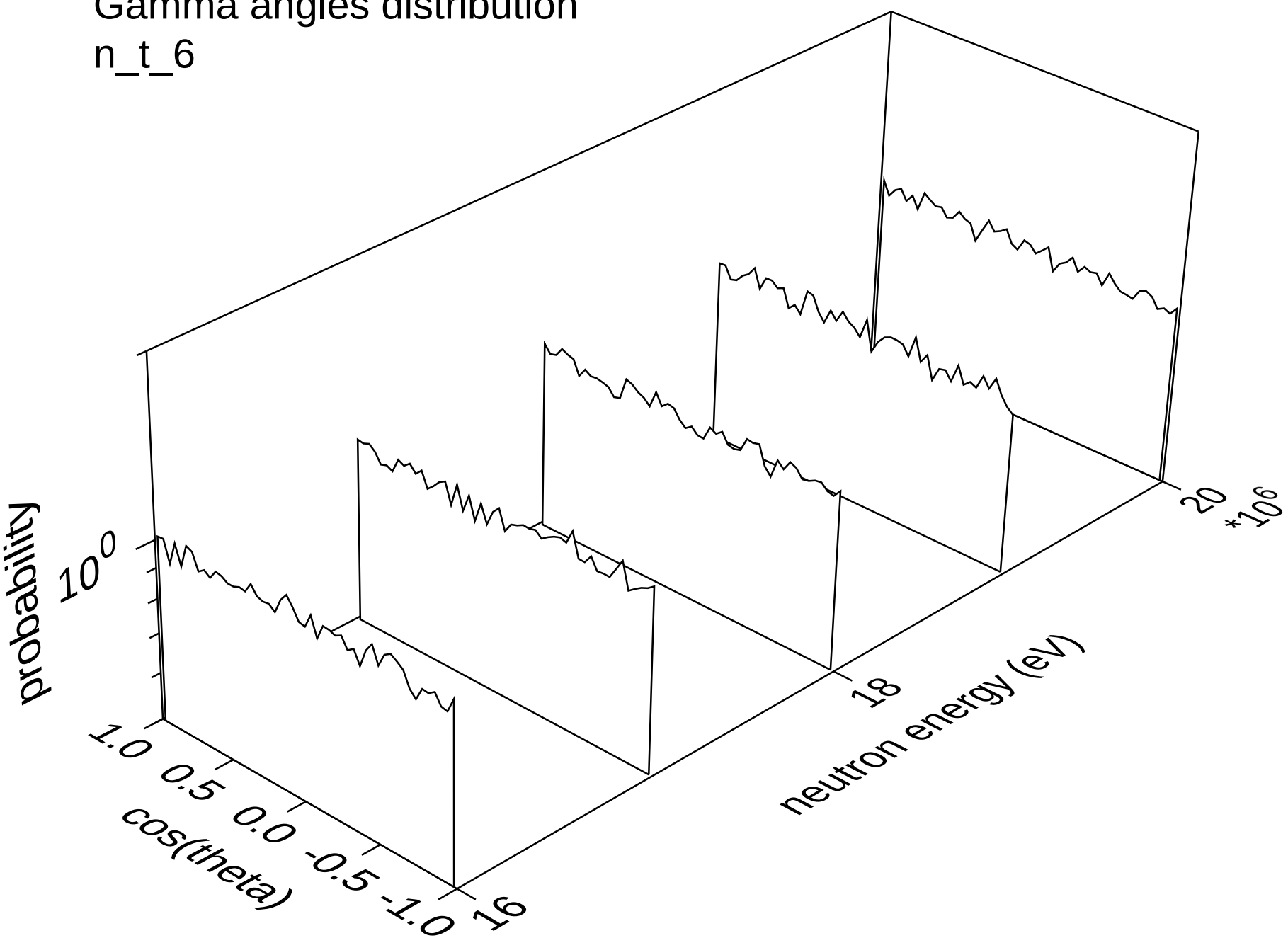

Gamma energy distribution
n_t_5
probability
100
80
60
40
20
0
gamma energy (MeV)
5
10
15
20
16
neutron energy (eV)
18
20
*10^6


Gamma angles distribution
n_t_5
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

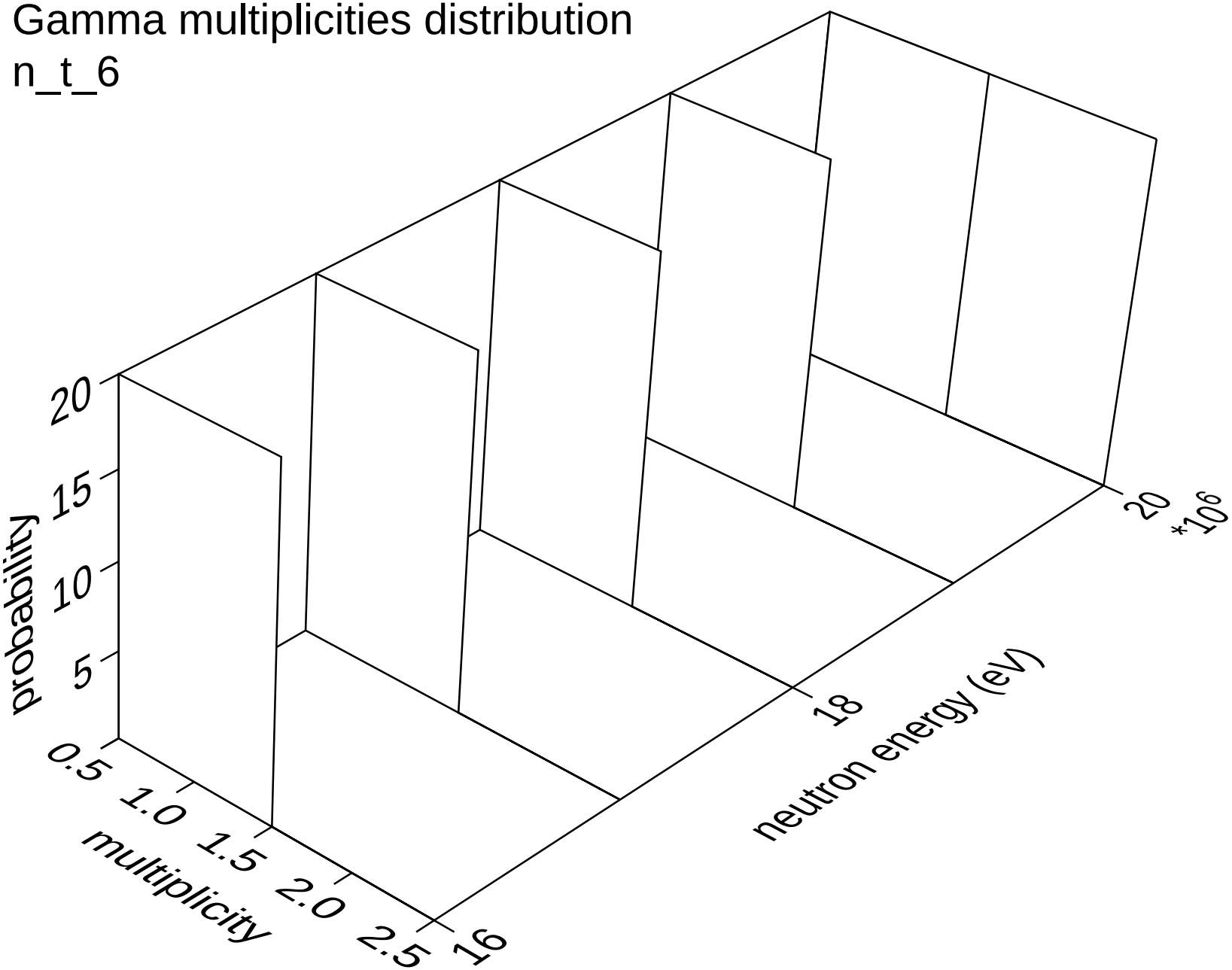
Gamma multiplicities distribution
n_t_5

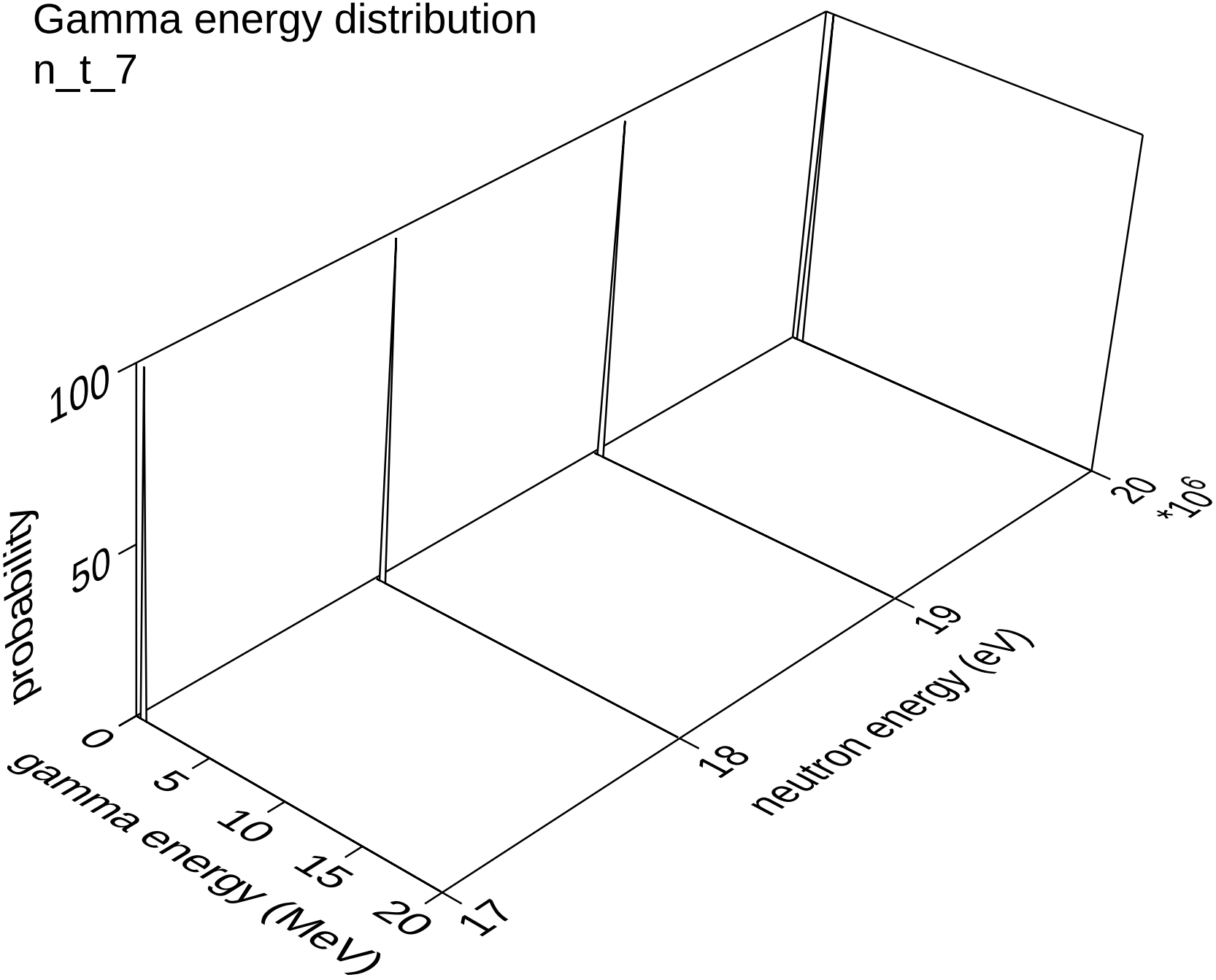


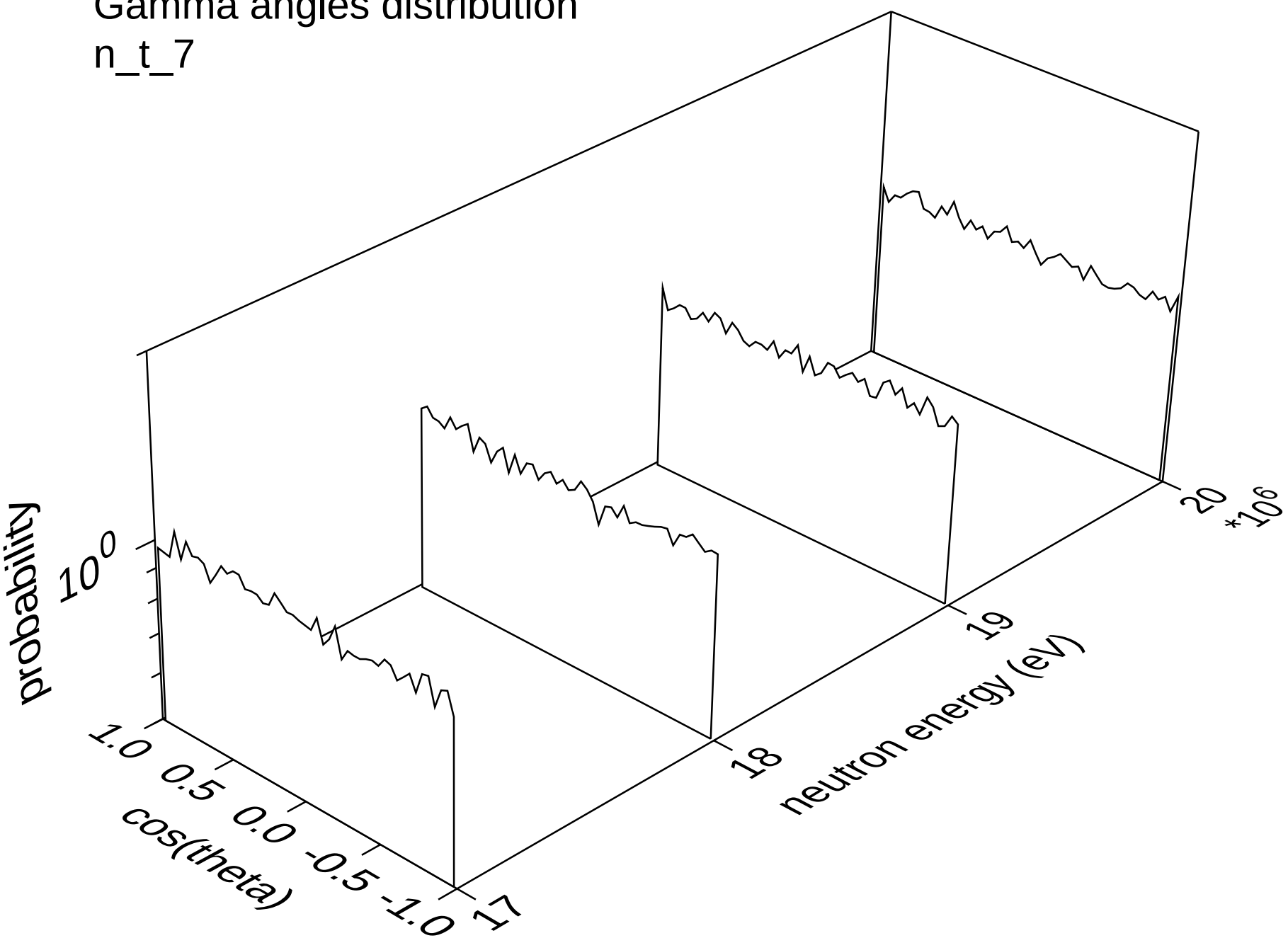

Gamma energy distribution
n_t_6
probability
100
80
60
40
20
0
gamma energy (MeV)
5
10
15
20
16
neutron energy (eV)
18
20
*10^6


Gamma angles distribution
n_t_6
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

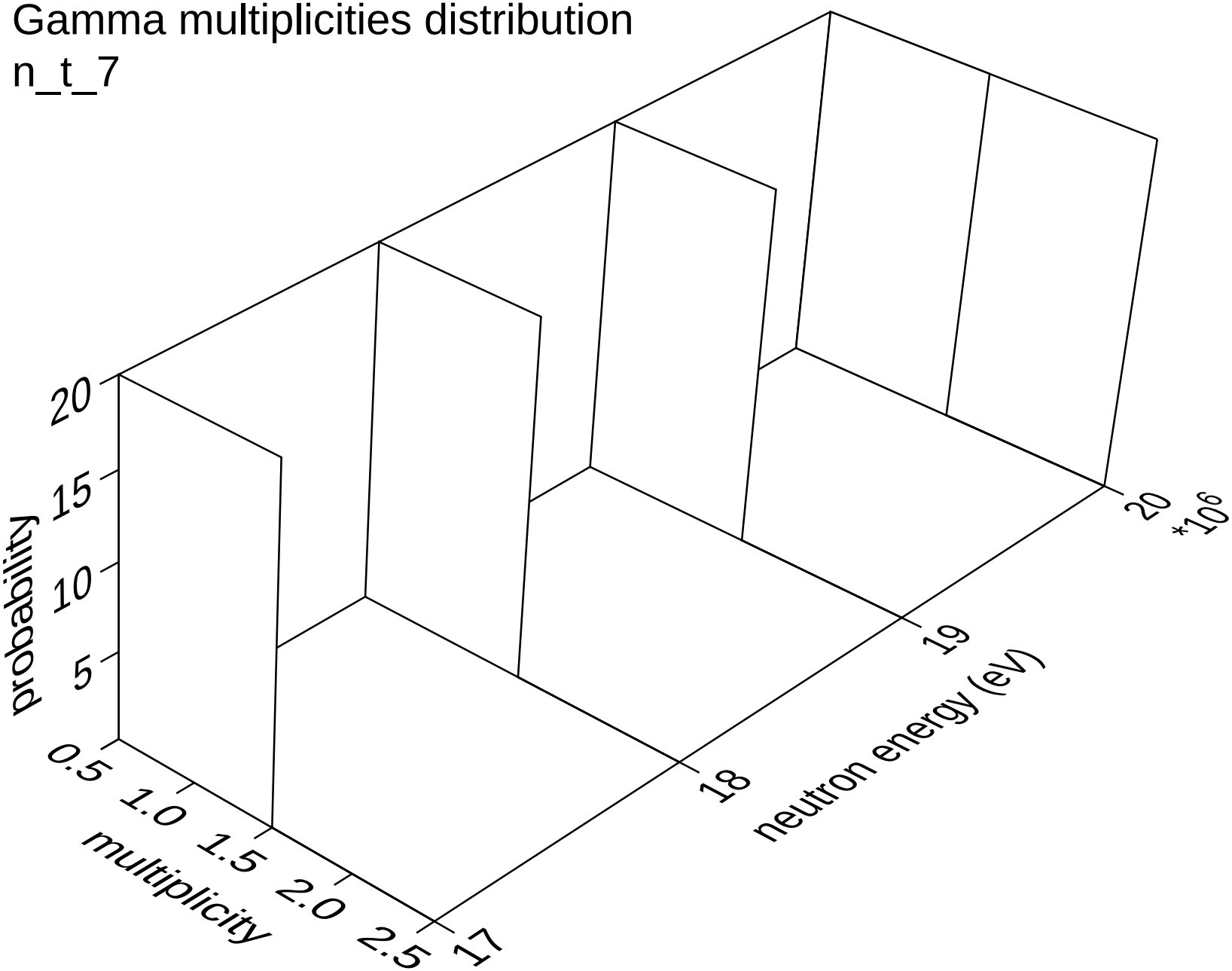
Gamma multiplicities distribution
n_t_6

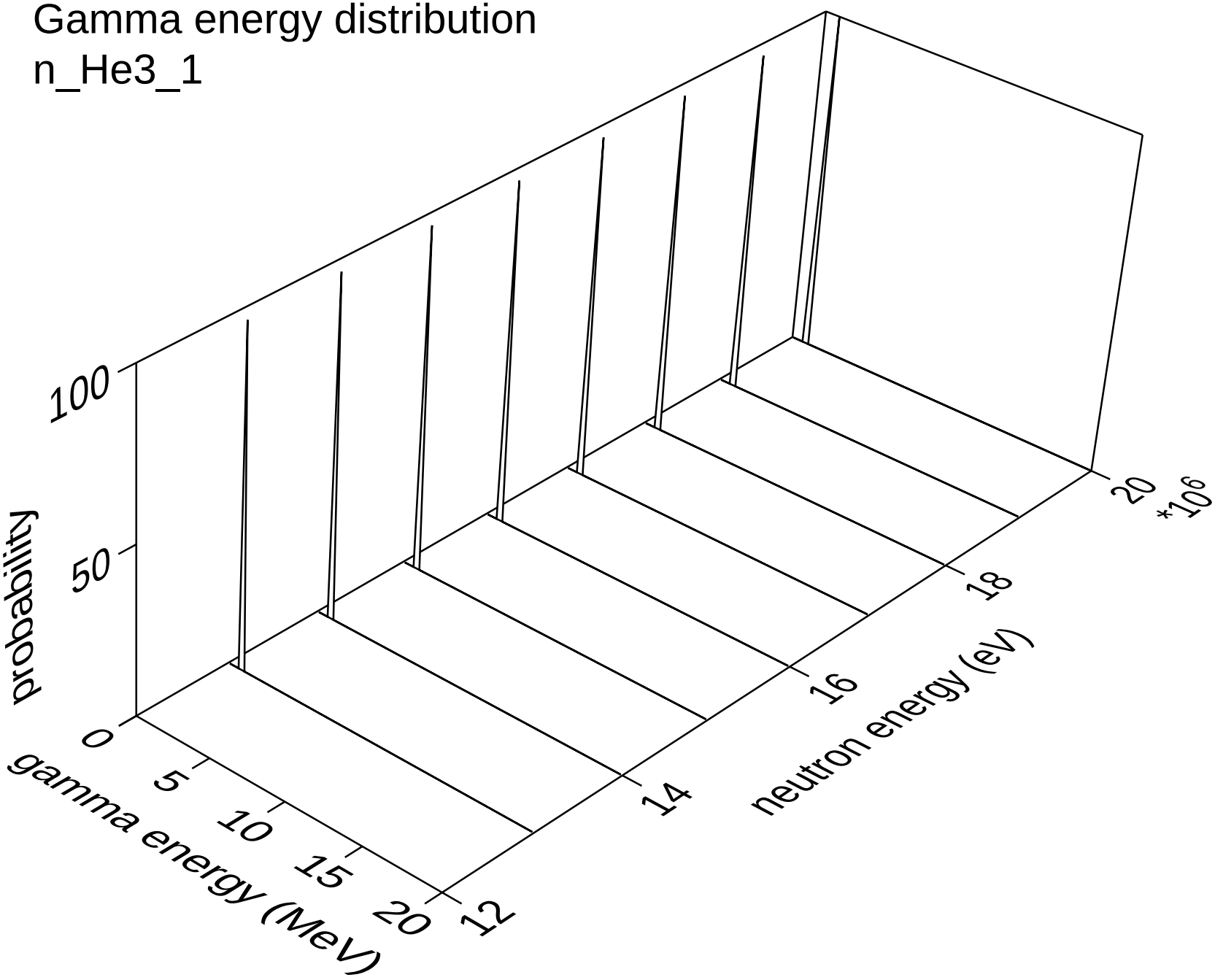


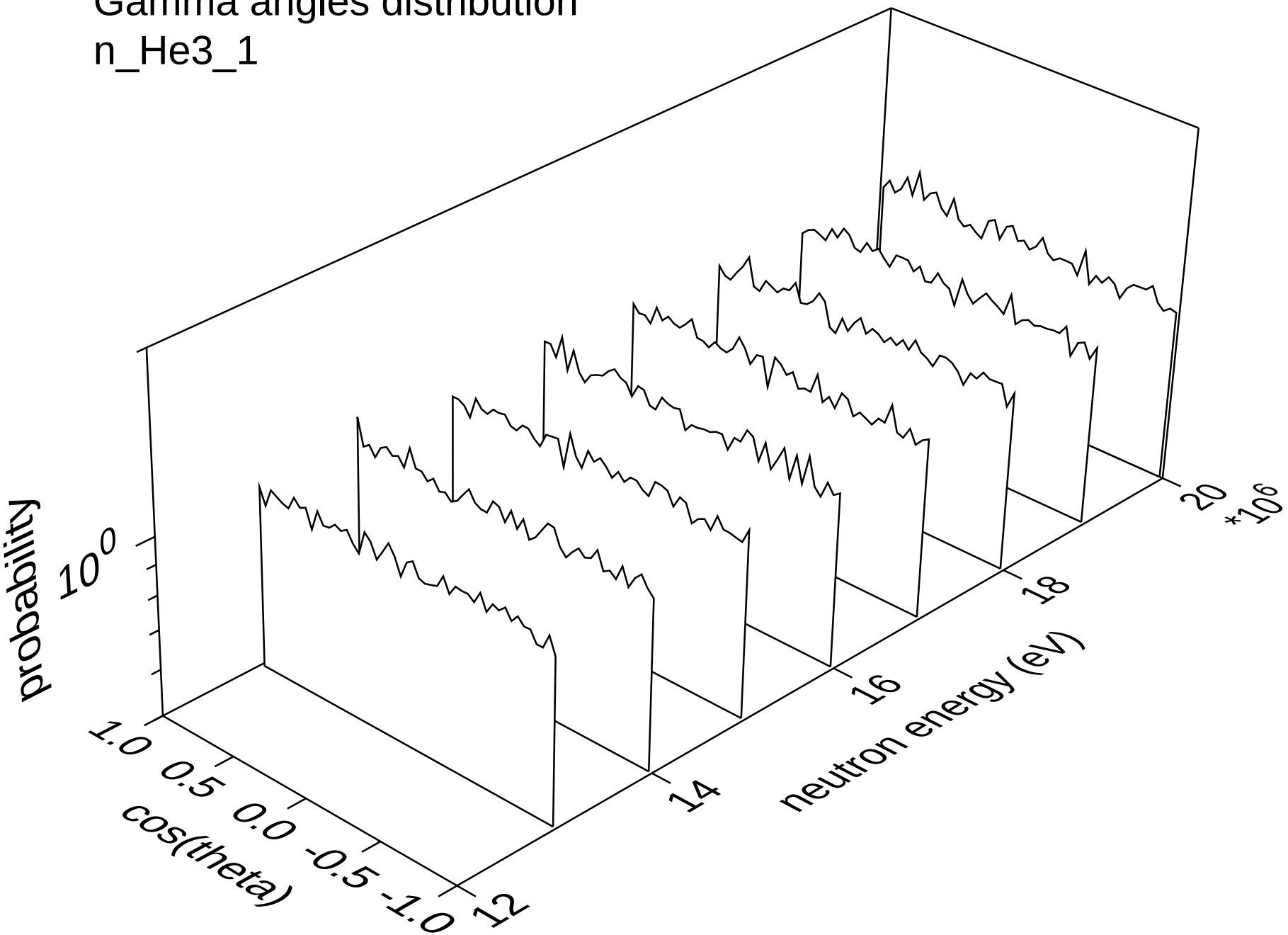

Gamma energy distribution
n_t_7
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
17
18
19
20
*10^6
neutron energy (eV)


Gamma angles distribution
n_t_7
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)

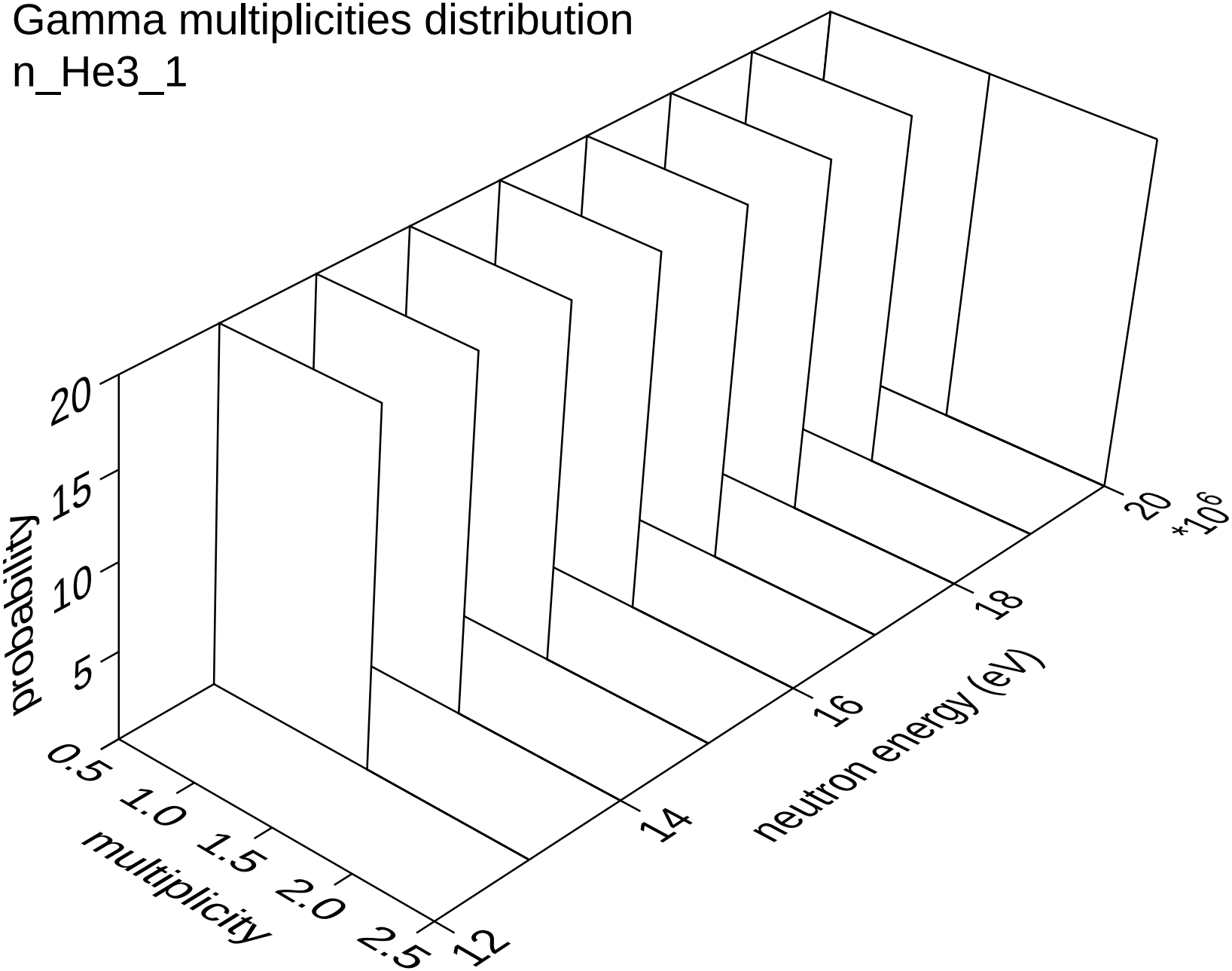
Gamma multiplicities distribution
n_t_7

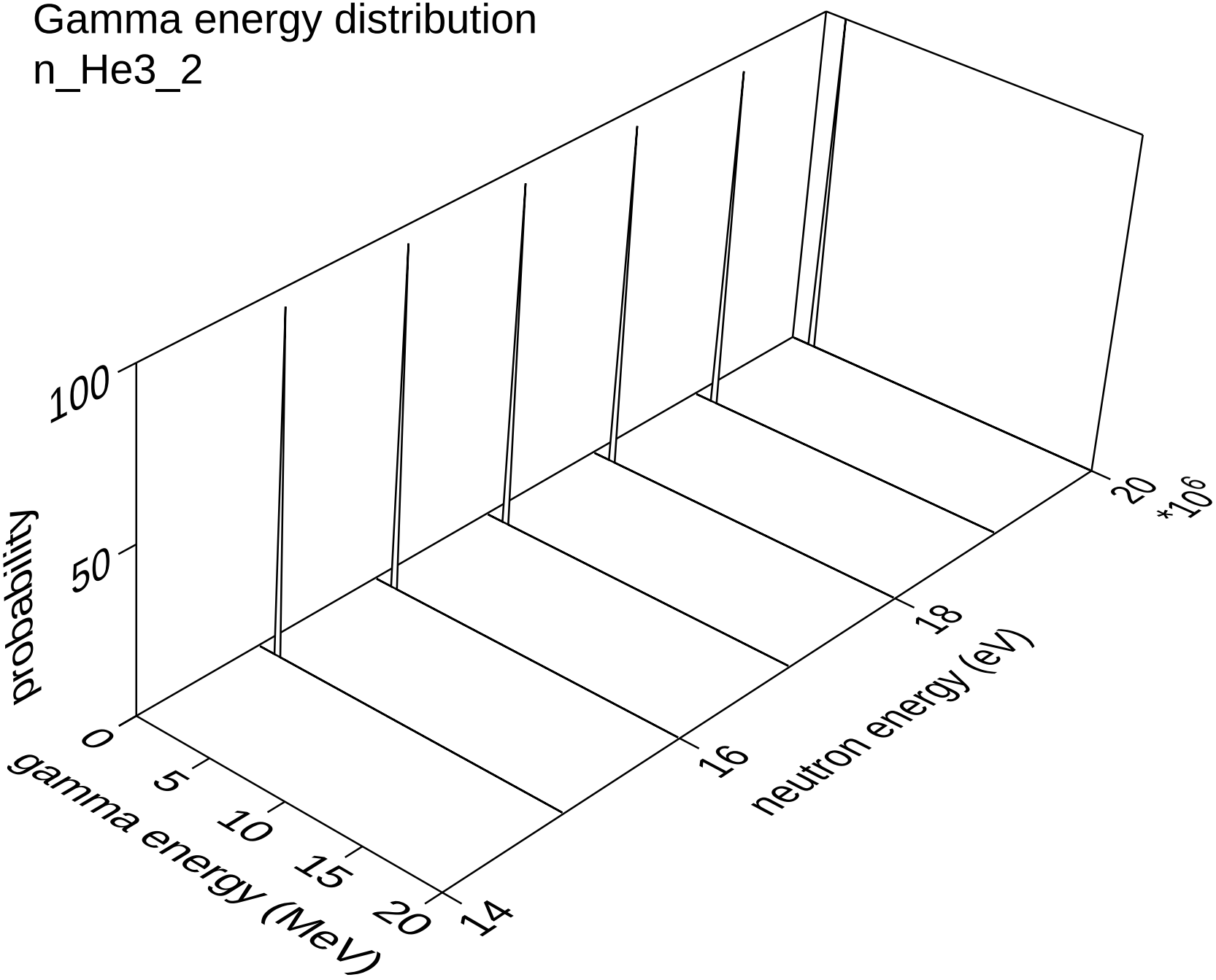


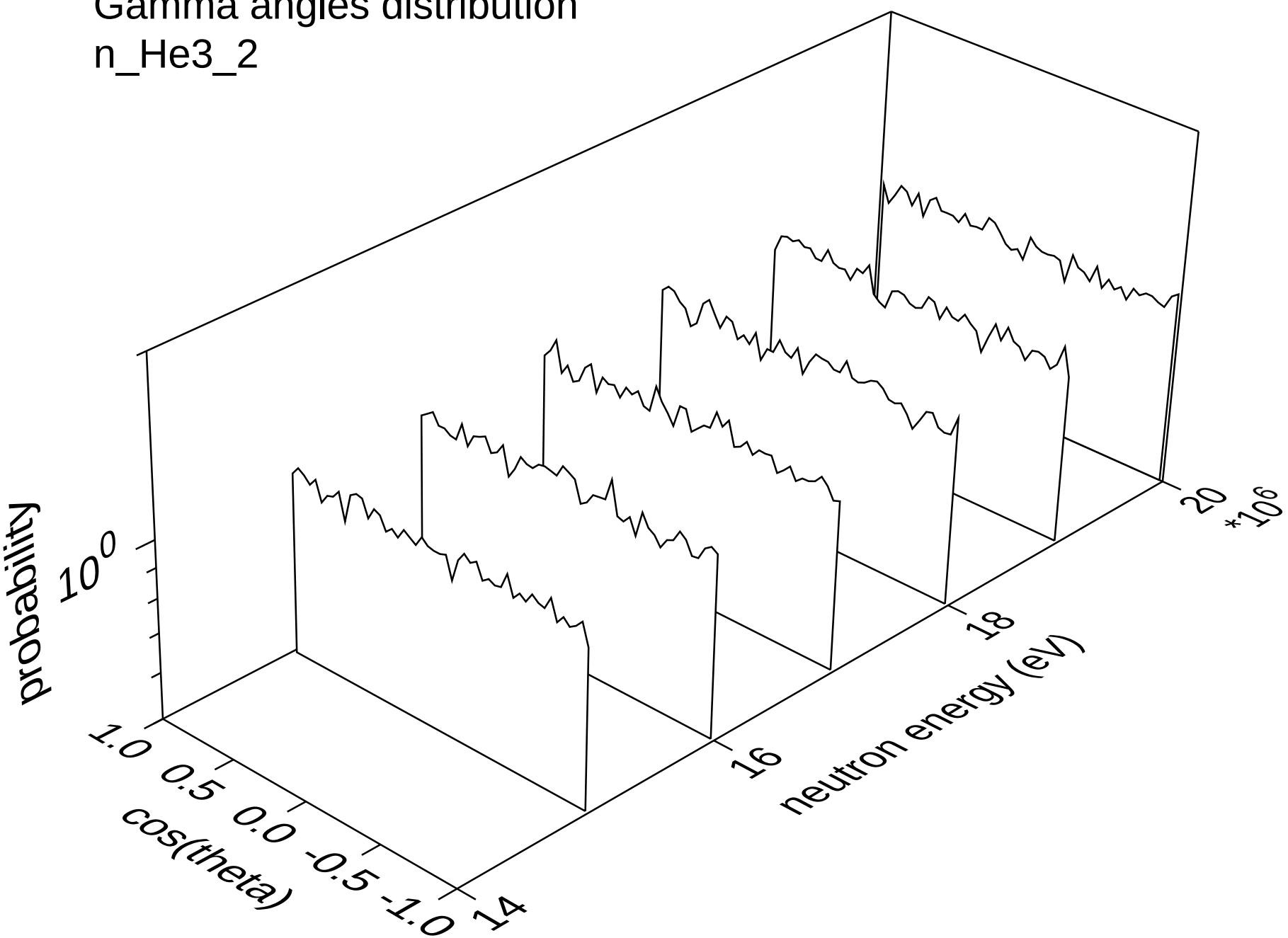

Gamma energy distribution
n_He3_1
probability
100
50
0
gamma energy (MeV)
5
10
15
20
12
14
16
18
20
*10^6
neutron energy (eV)


Gamma angles distribution
n_He3_1
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
12
14
16
18
20
*10^6
neutron energy (eV)

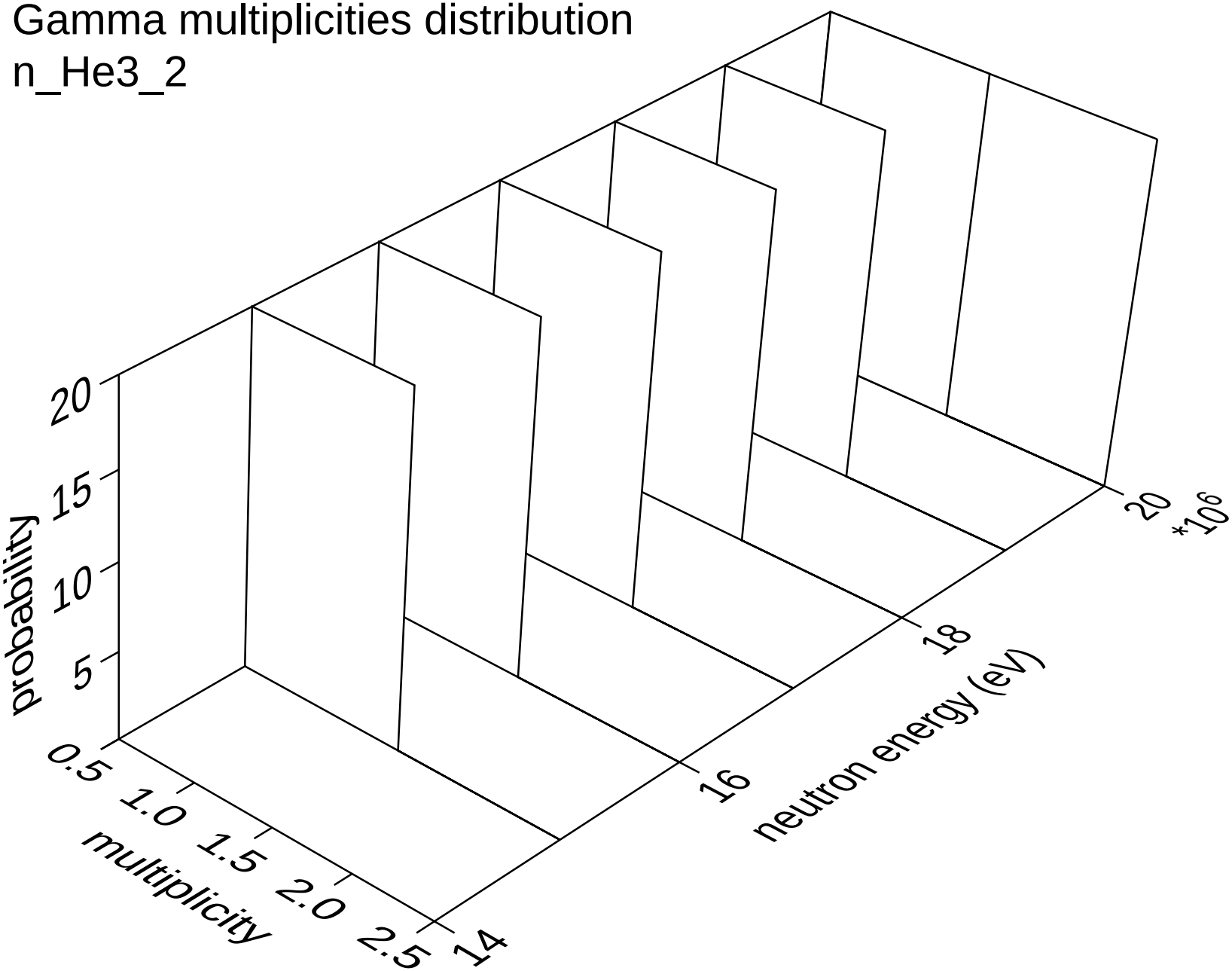
Gamma multiplicities distribution
n_He3_1

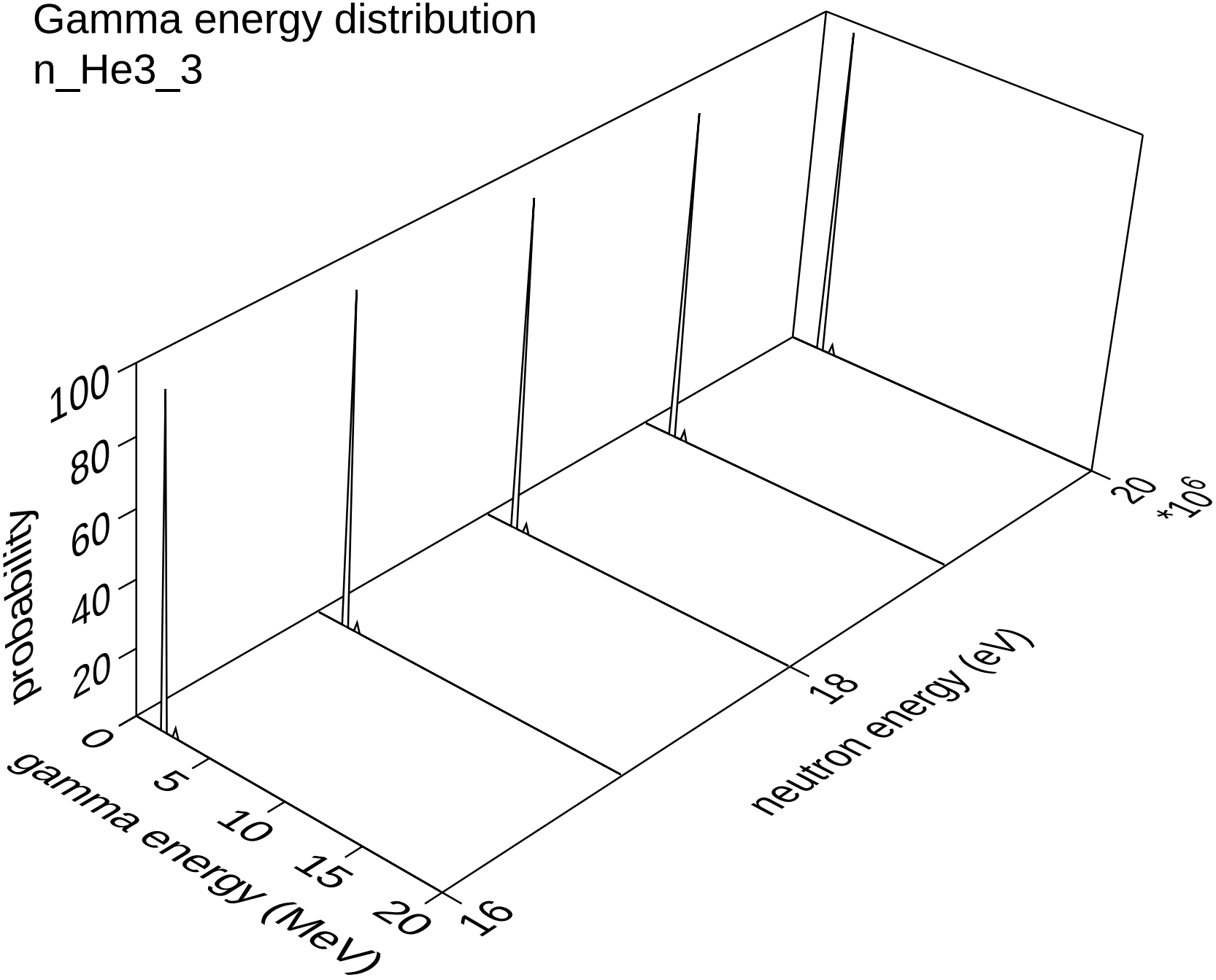


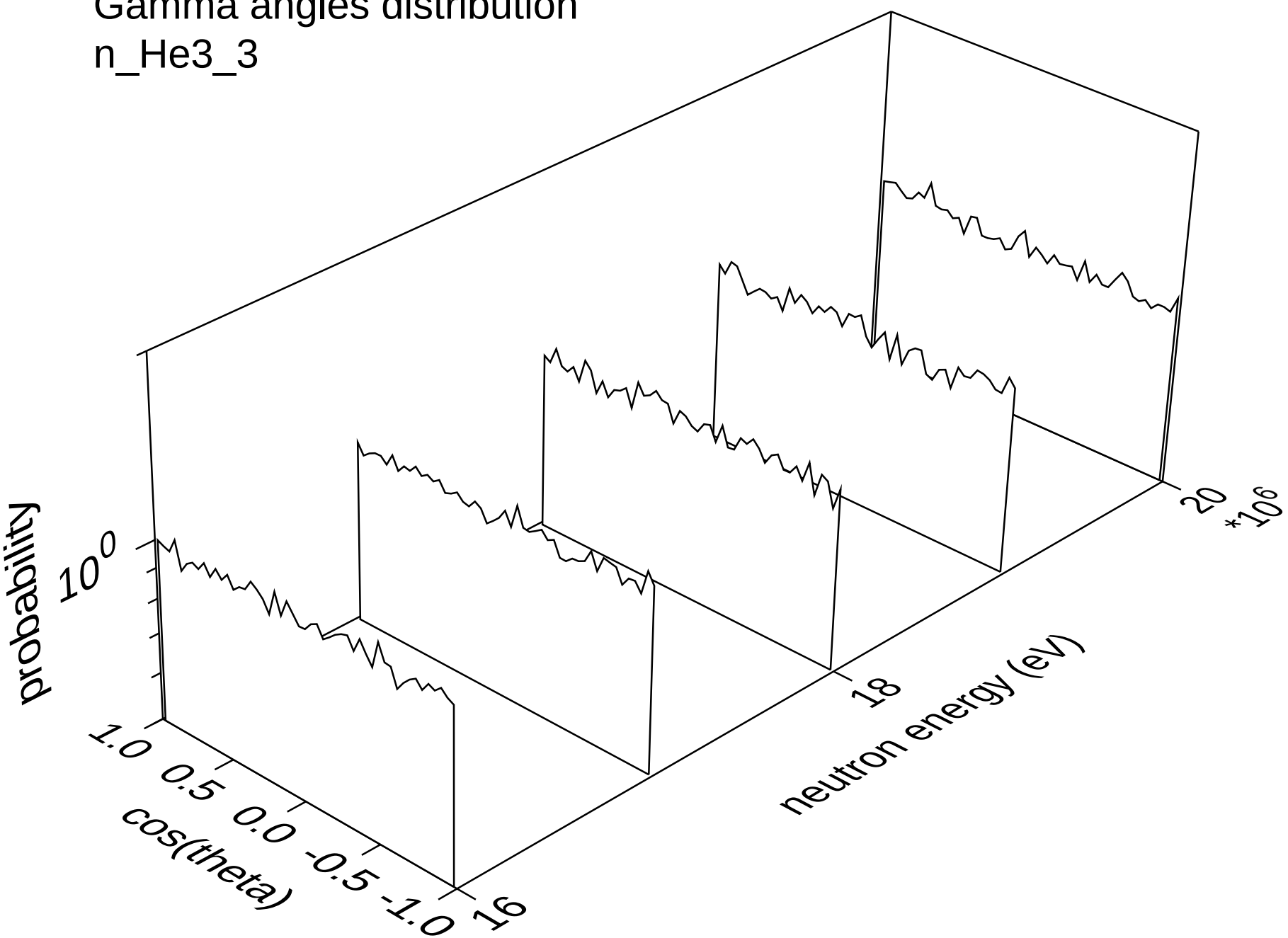

Gamma energy distribution
n_He3_2
probability
100
50
0
gamma energy (MeV)
5
10
15
20
14
16
18
20
*10^6
neutron energy (eV)

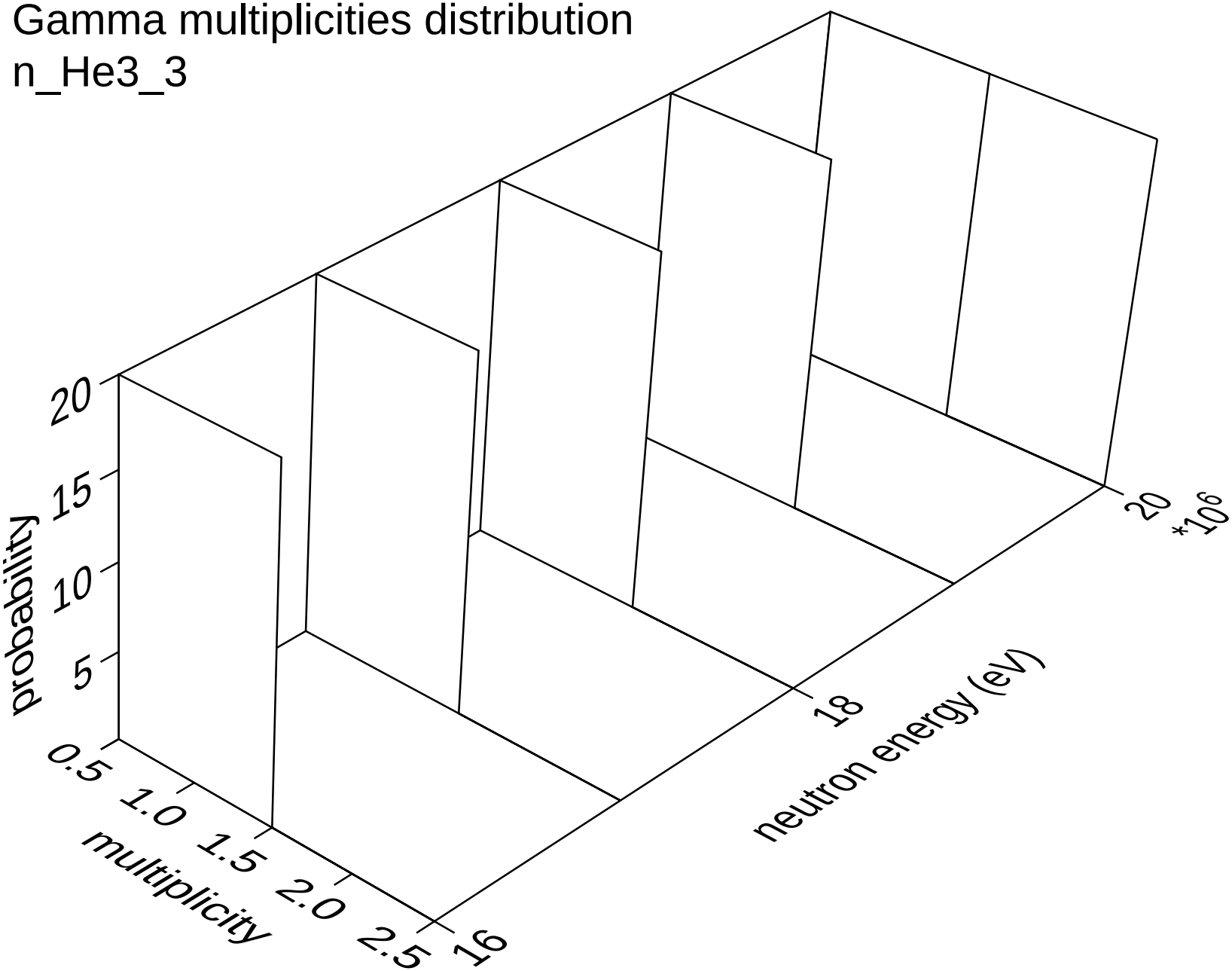

Gamma angles distribution
n_He3_2
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
14
16
18
20
*10^6
neutron energy (eV)

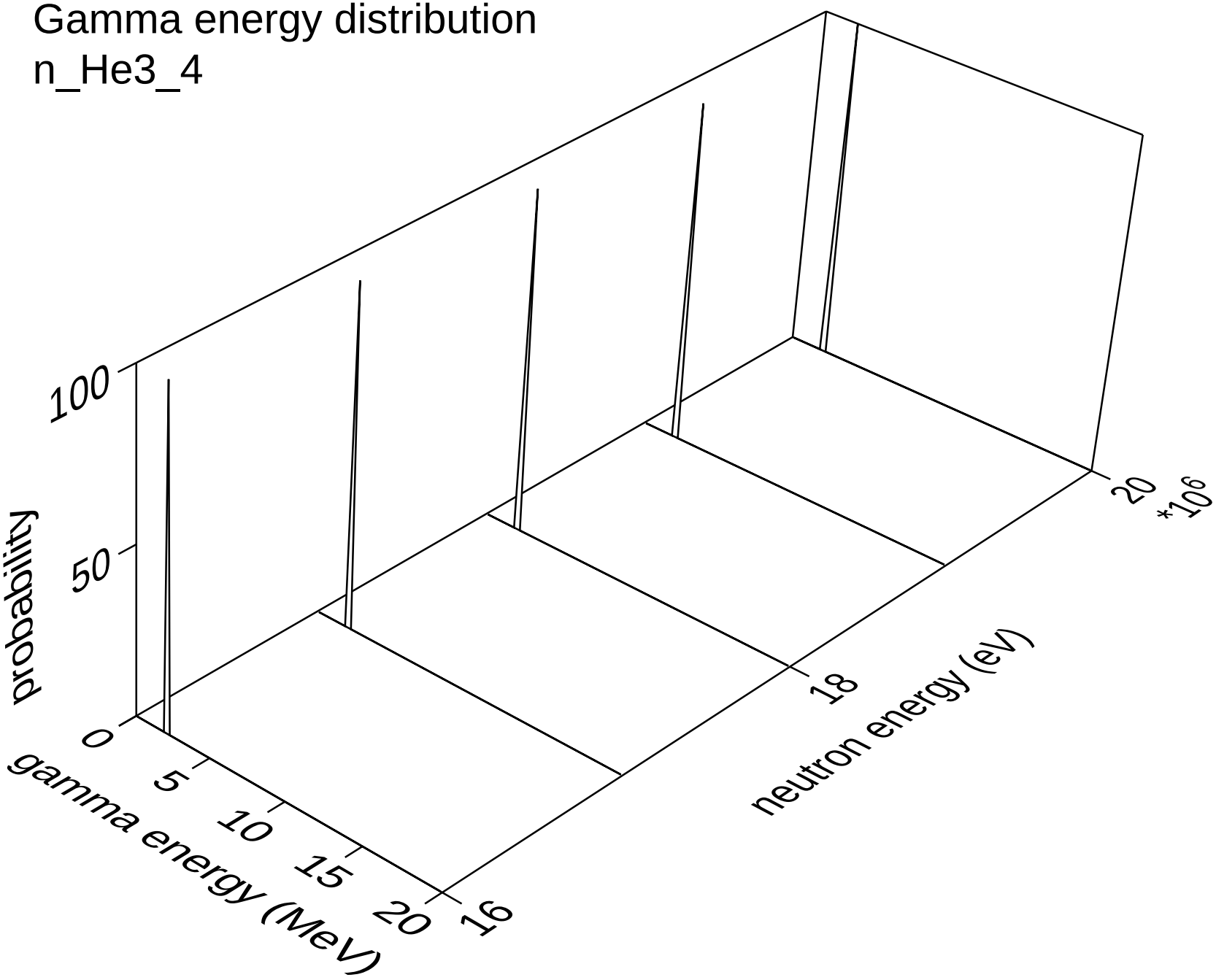
Gamma multiplicities distribution
n_He3_2

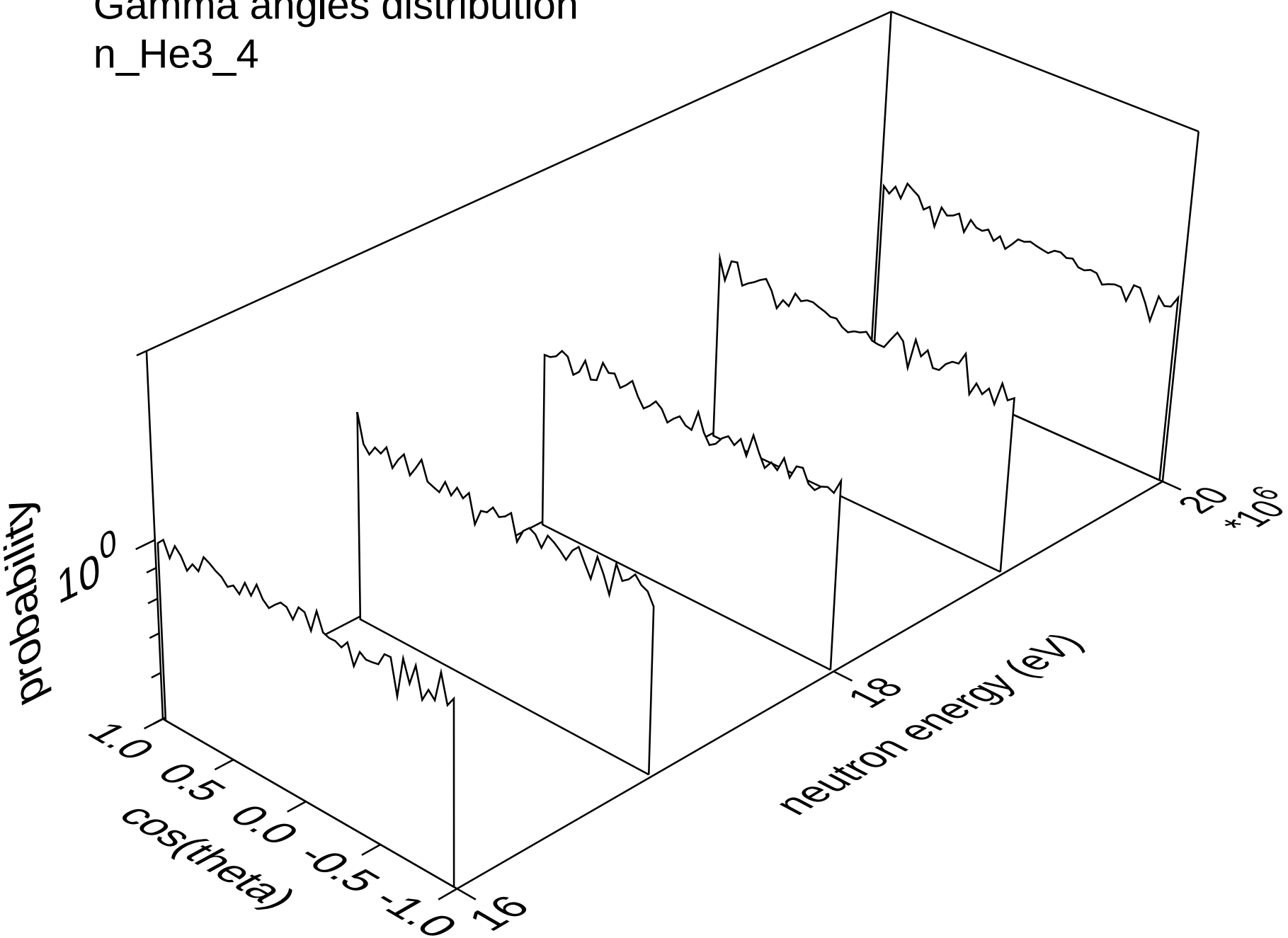


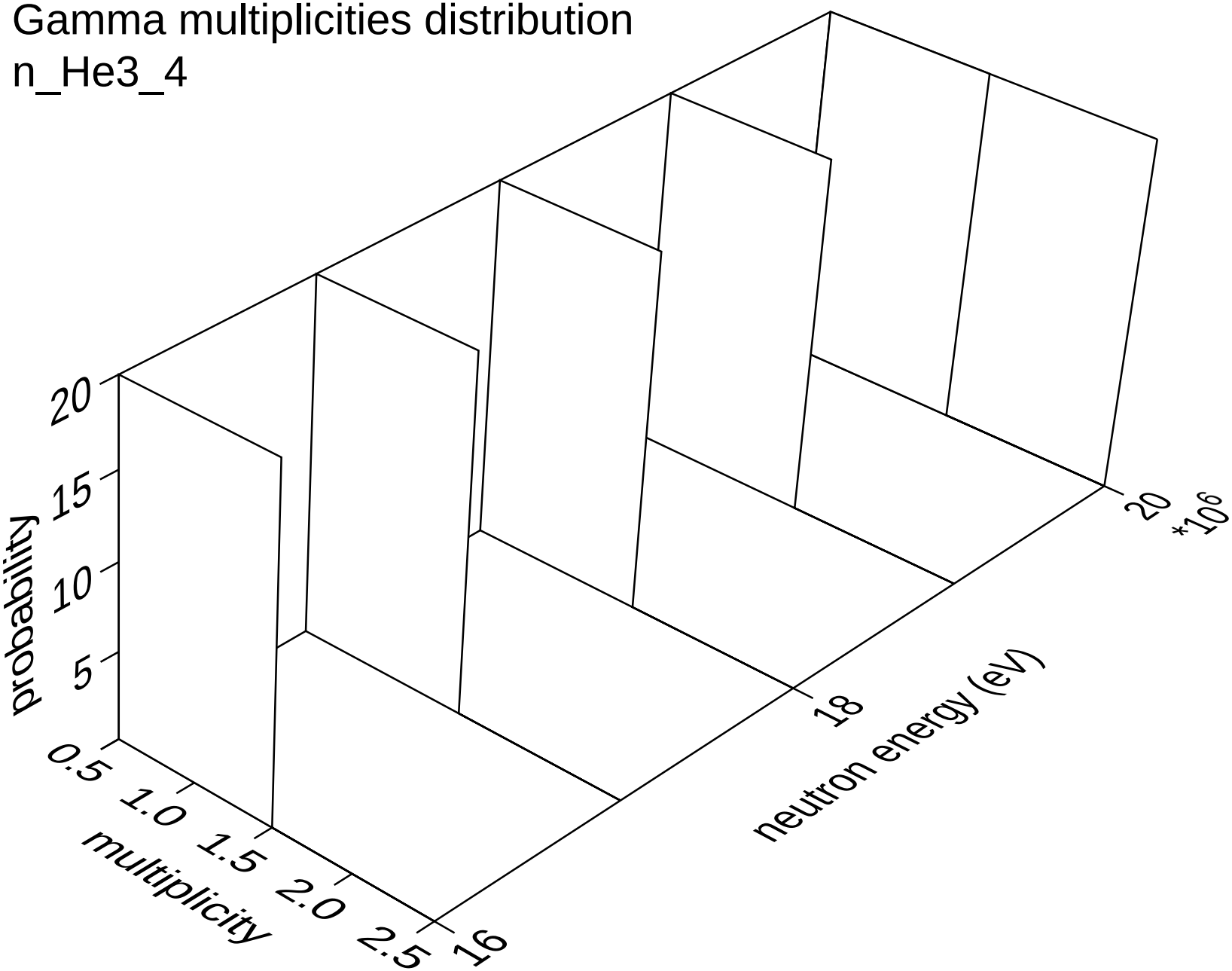

Gamma energy distribution
n_He3_3
probability
100
80
60
40
20
0
gamma energy (MeV)
5
10
15
20
16
neutron energy (eV)
18
20
*10^6

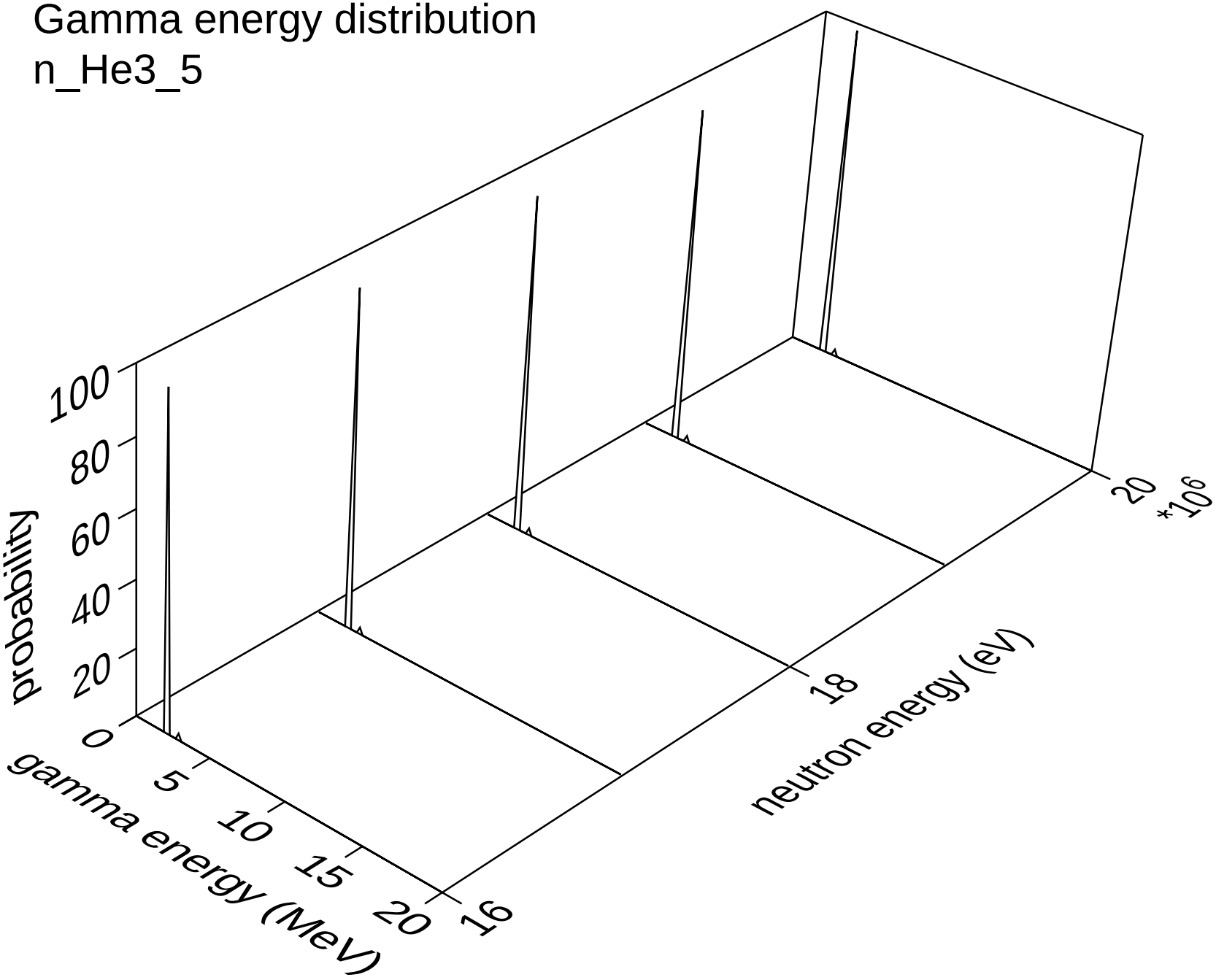

Gamma angles distribution
n_He3_3
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

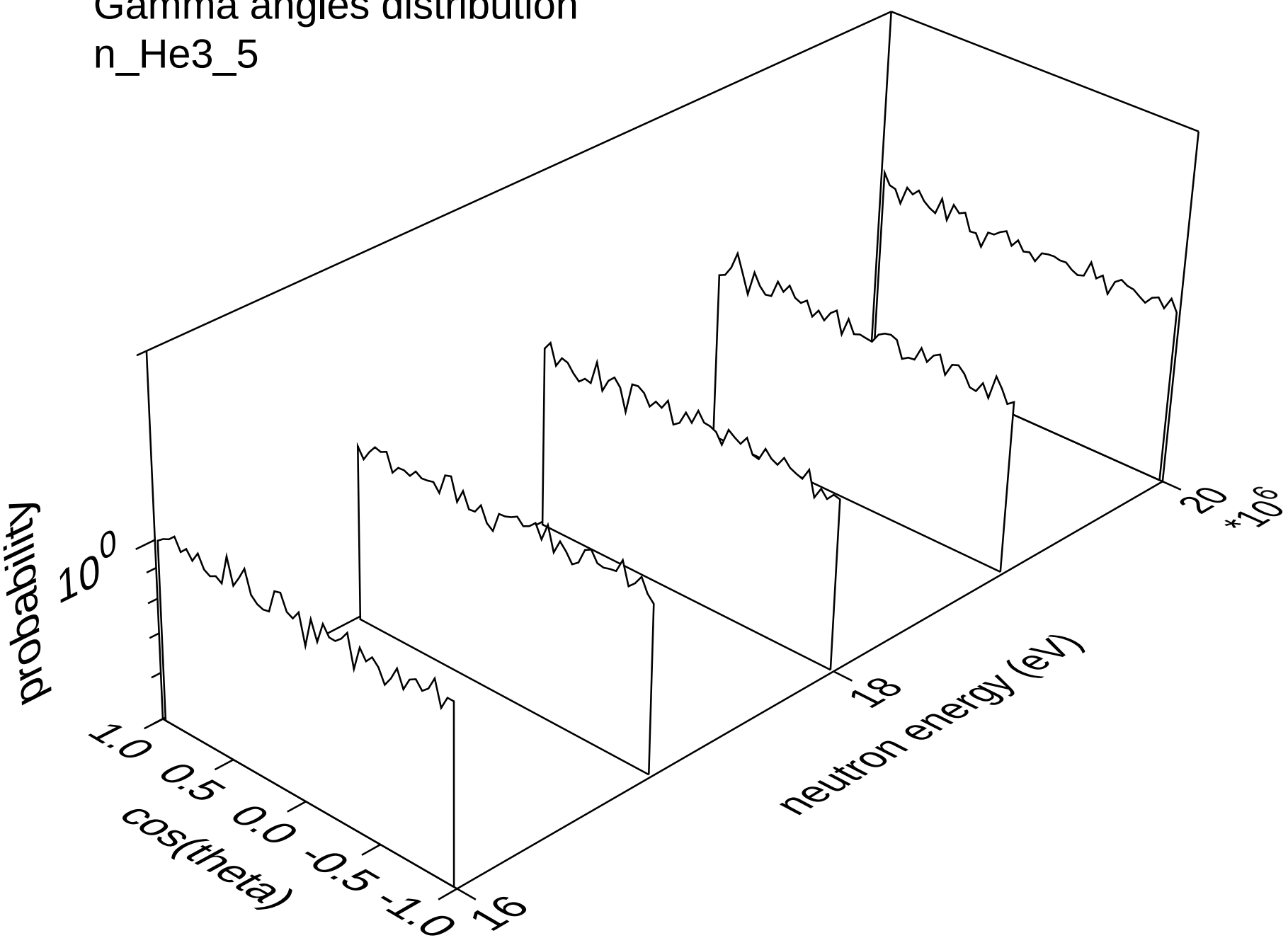

Gamma multiplicities distribution
n_He3_3
probability
20
15
10
5
0.5
1.0
1.5
2.0
2.5
multiplicity
16
18
20
*10^6
neutron energy (eV)

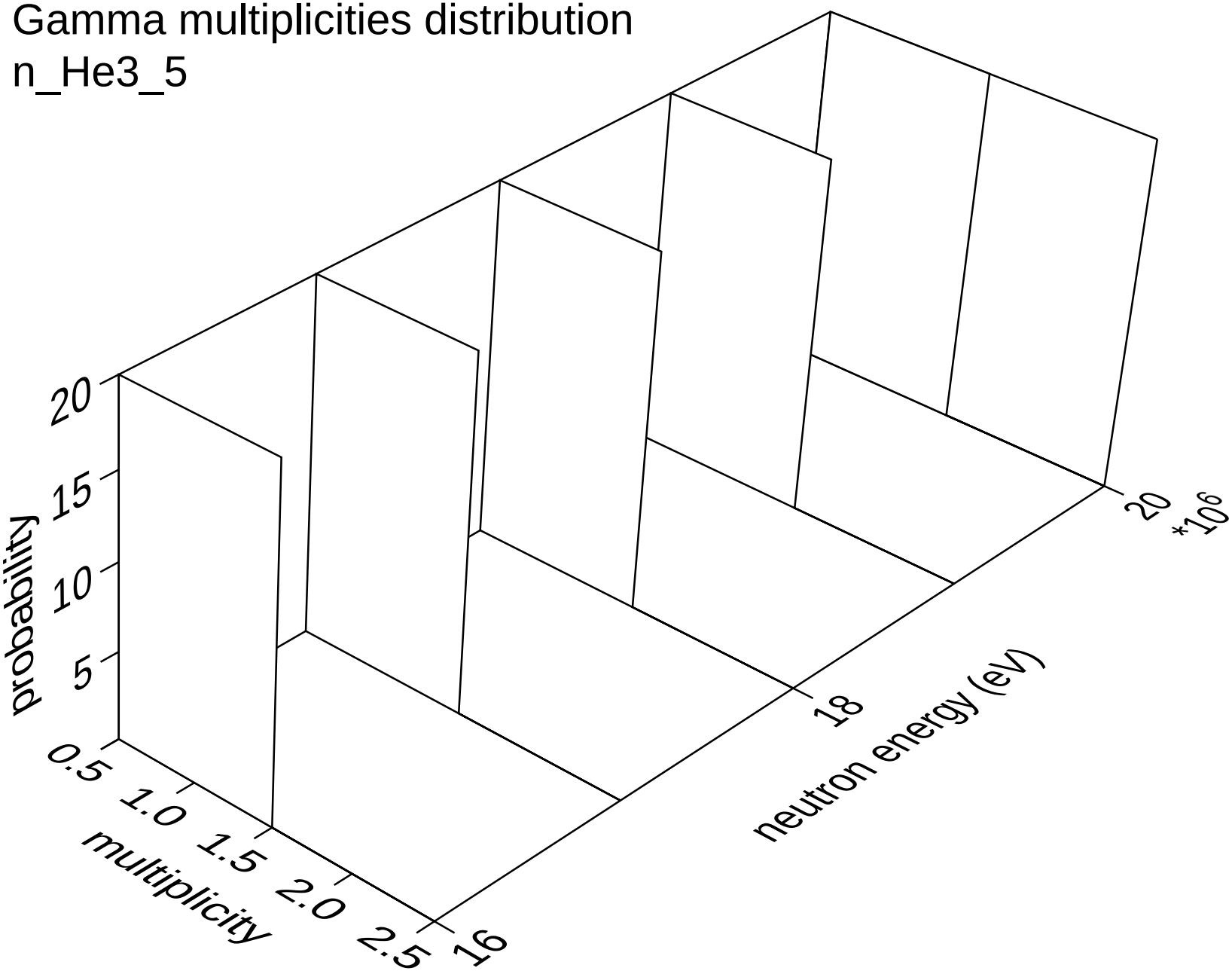

Gamma energy distribution
n_He3_4
probability
100
50
0
gamma energy (MeV)
5
10
15
20
16
neutron energy (eV)
18
20
*10^6

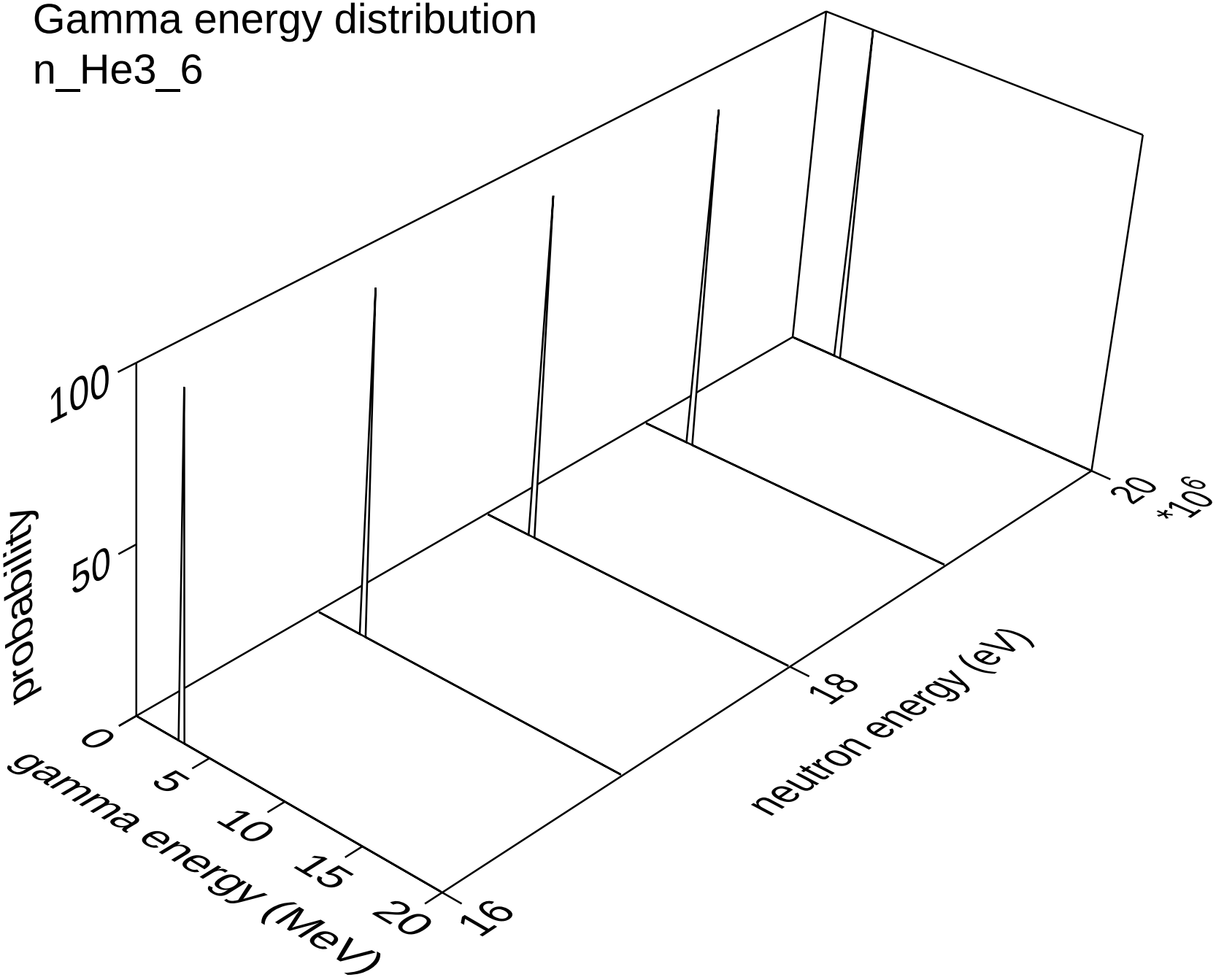

Gamma angles distribution
n_He3_4
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

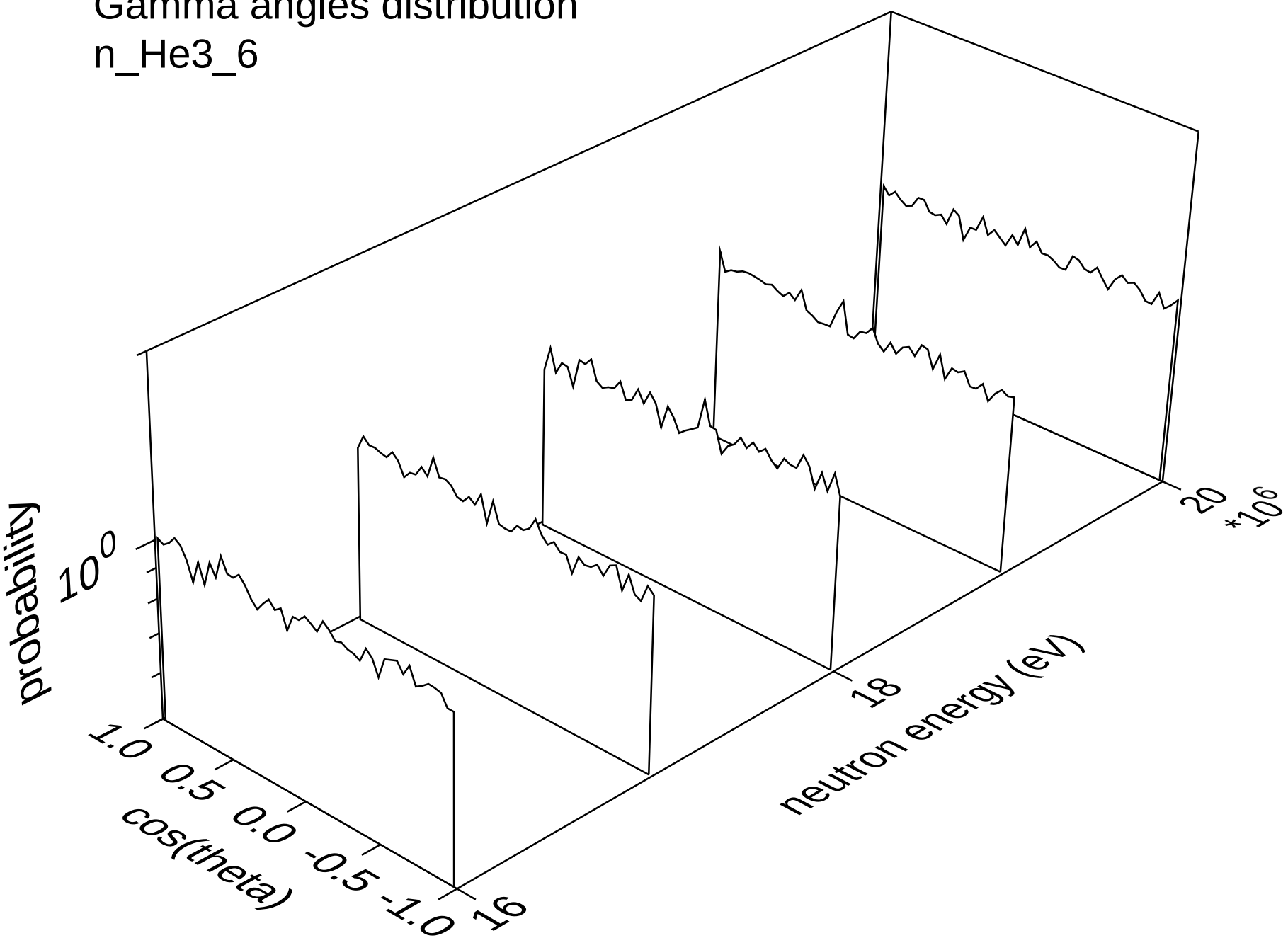

Gamma multiplicities distribution
n_He3_4
probability
20
15
10
5
0.5
1.0
1.5
2.0
2.5
multiplicity
16
18
20
*10^6
neutron energy (eV)

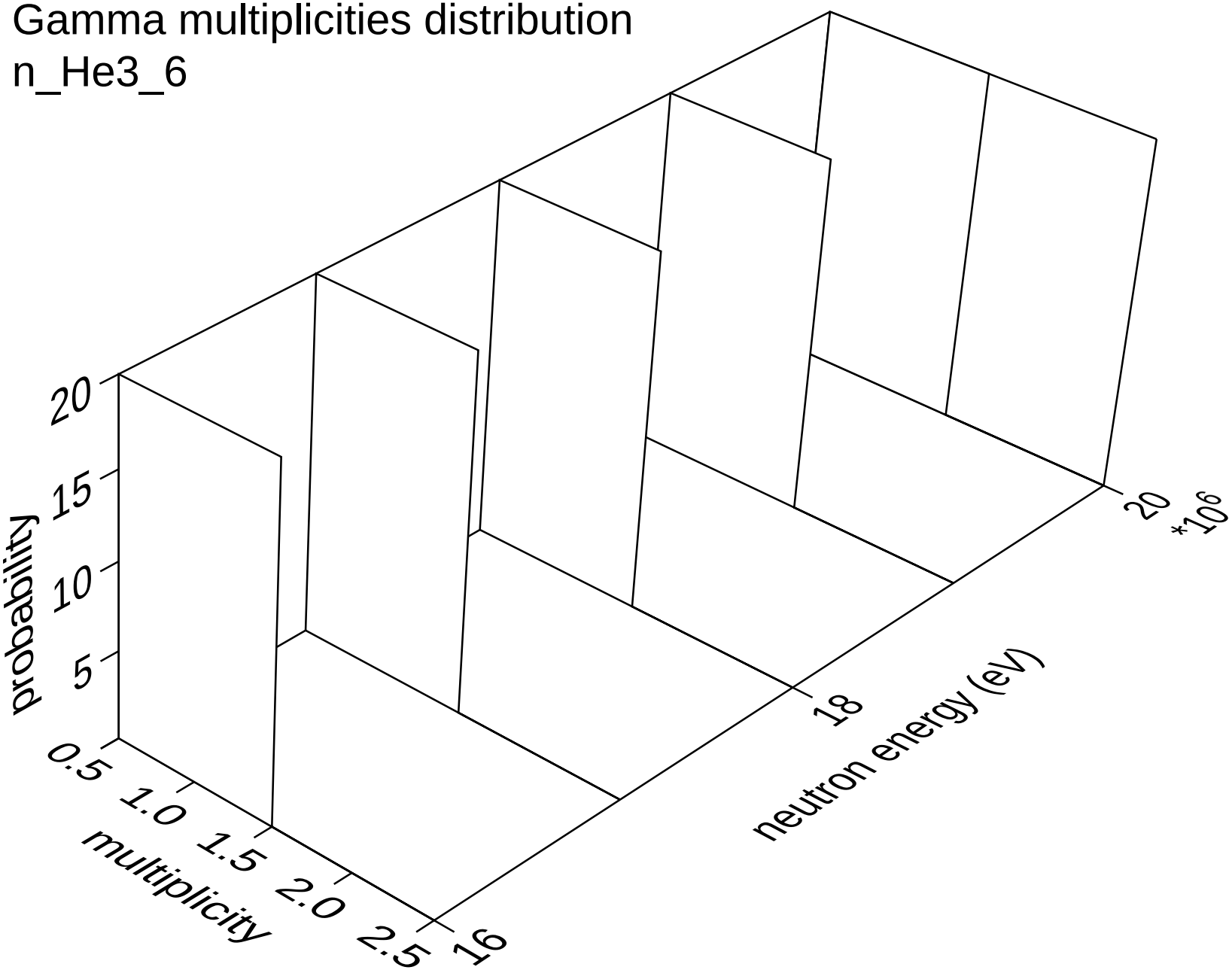

Gamma energy distribution
n_He3_5
probability
100
80
60
40
20
0
gamma energy (MeV)
5
10
15
20
16
neutron energy (eV)
18
20
*10^6

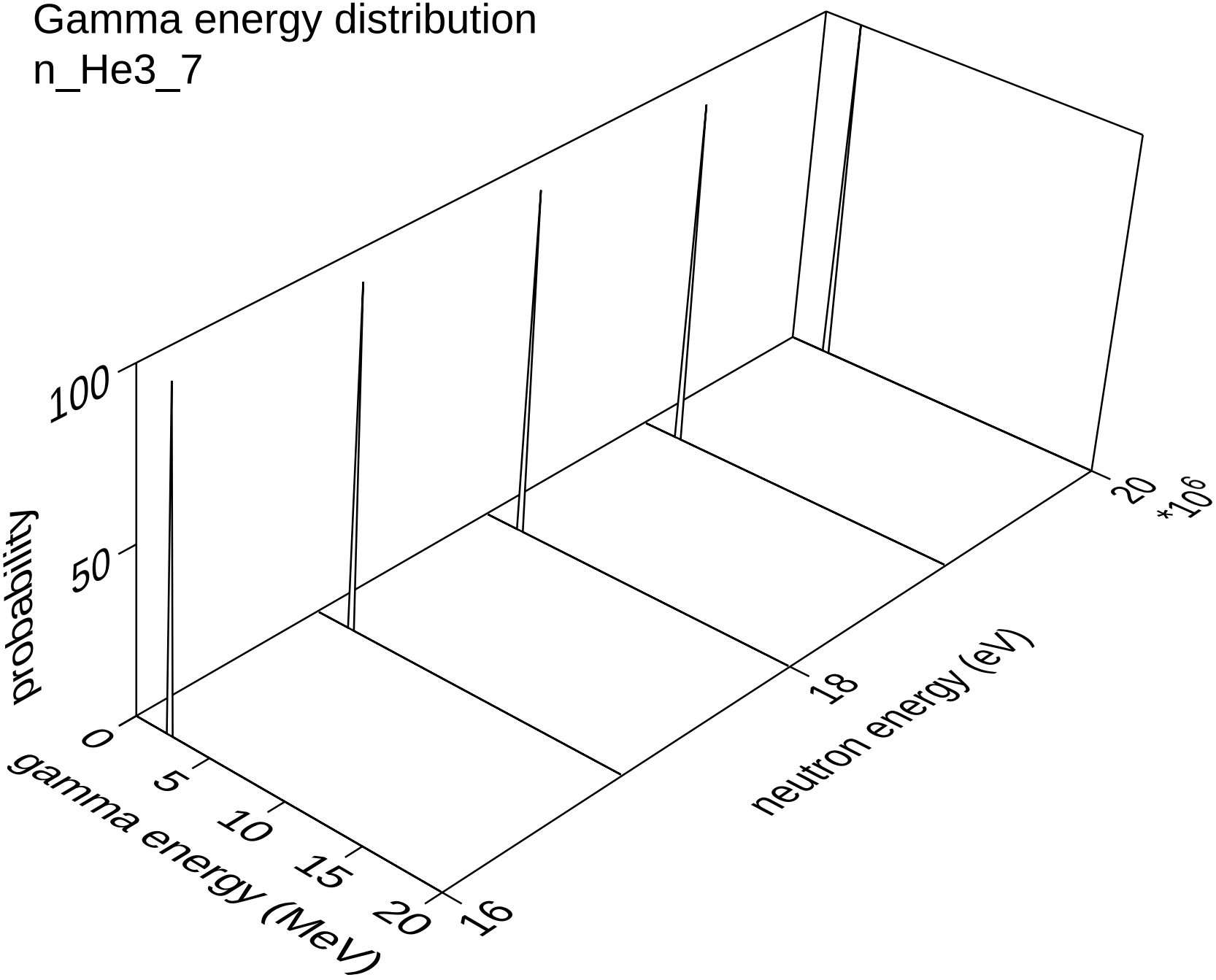

Gamma angles distribution
n_He3_5
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

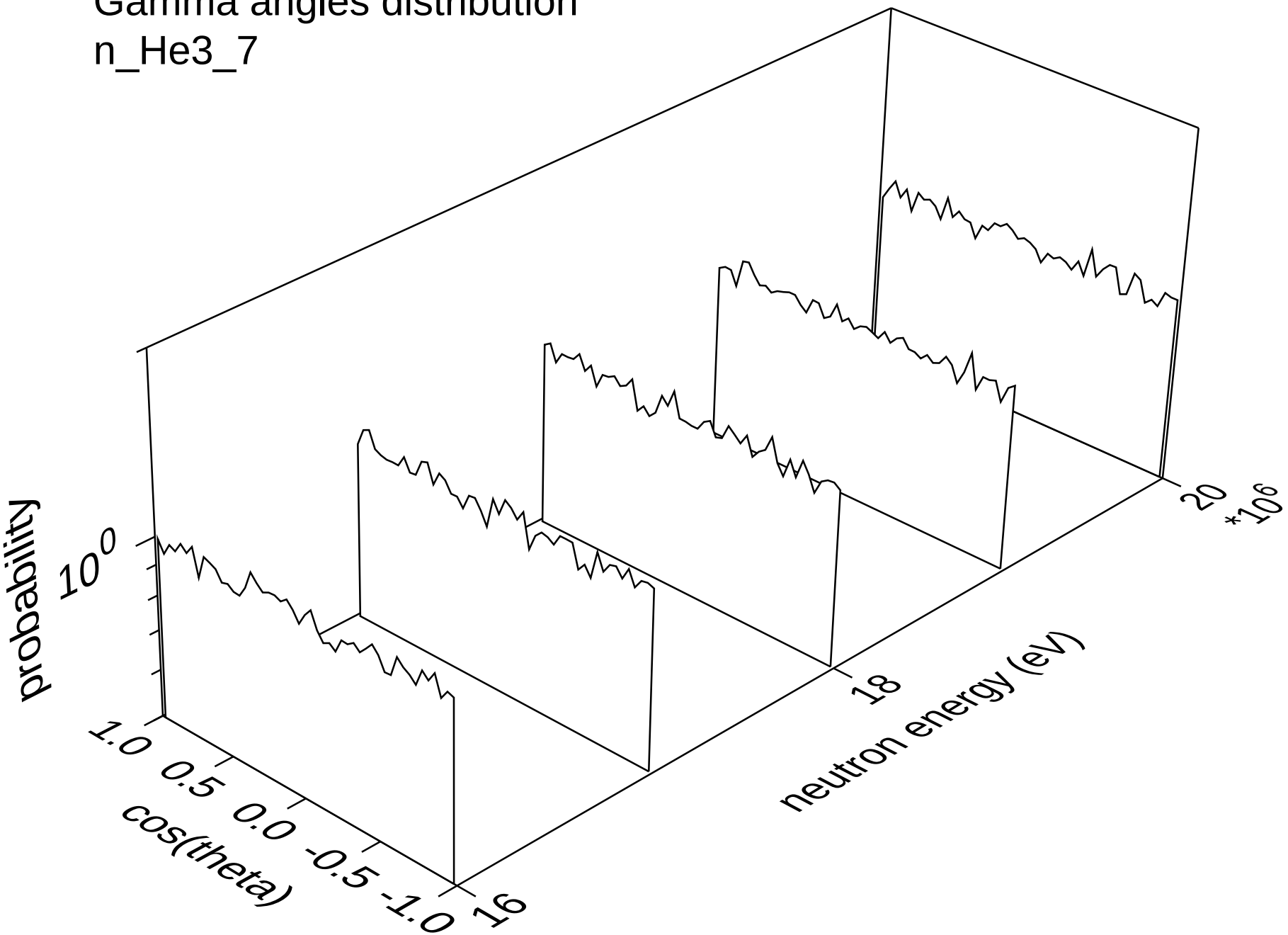

Gamma multiplicities distribution
n_He3_5
probability
20
15
10
5
0.5
1.0
1.5
2.0
2.5
multiplicity
16
18
20
*10^6
neutron energy (eV)

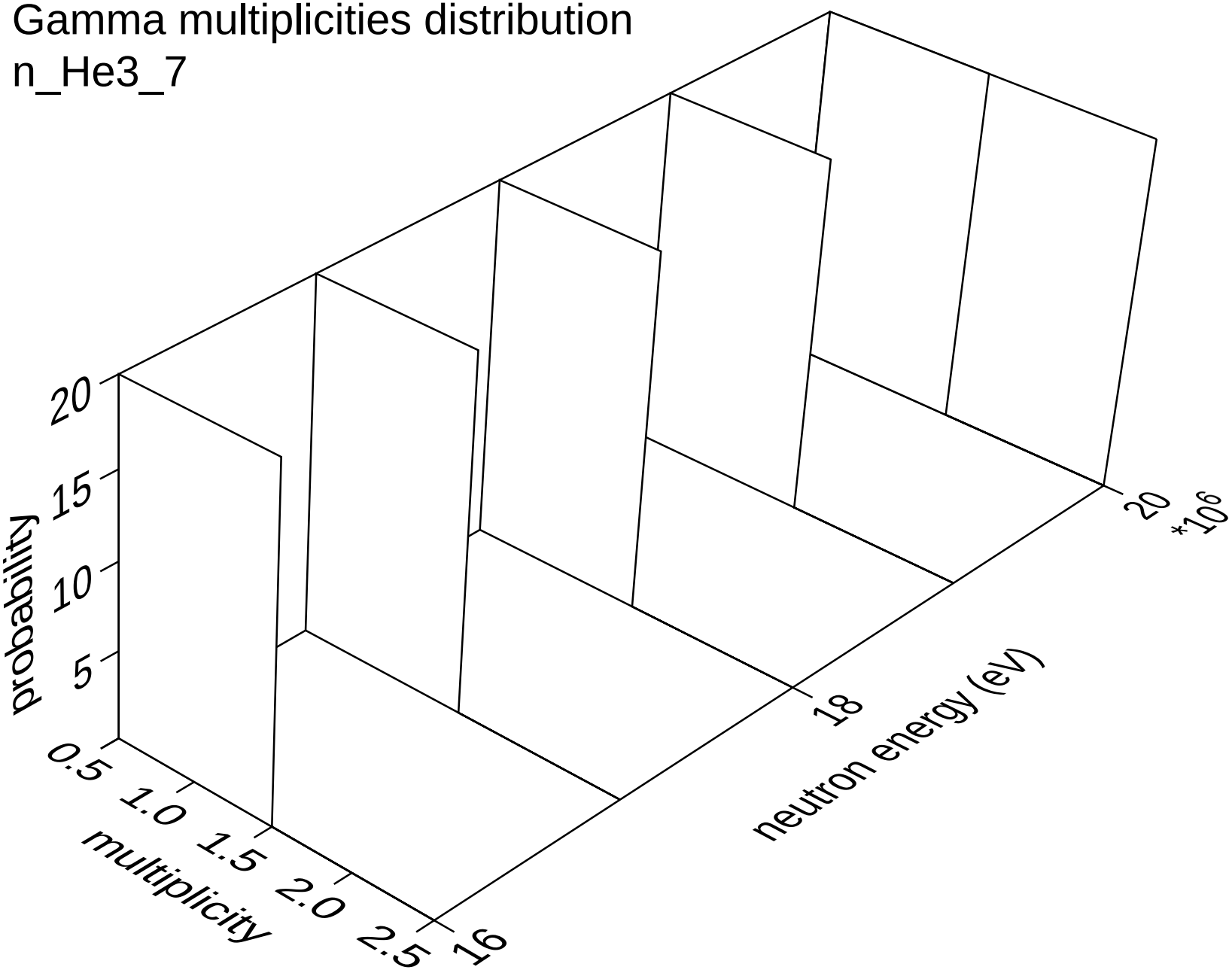

Gamma energy distribution
n_He3_6
probability
100
50
0
gamma energy (MeV)
5
10
15
20
16
neutron energy (eV)
18
20
*10^6

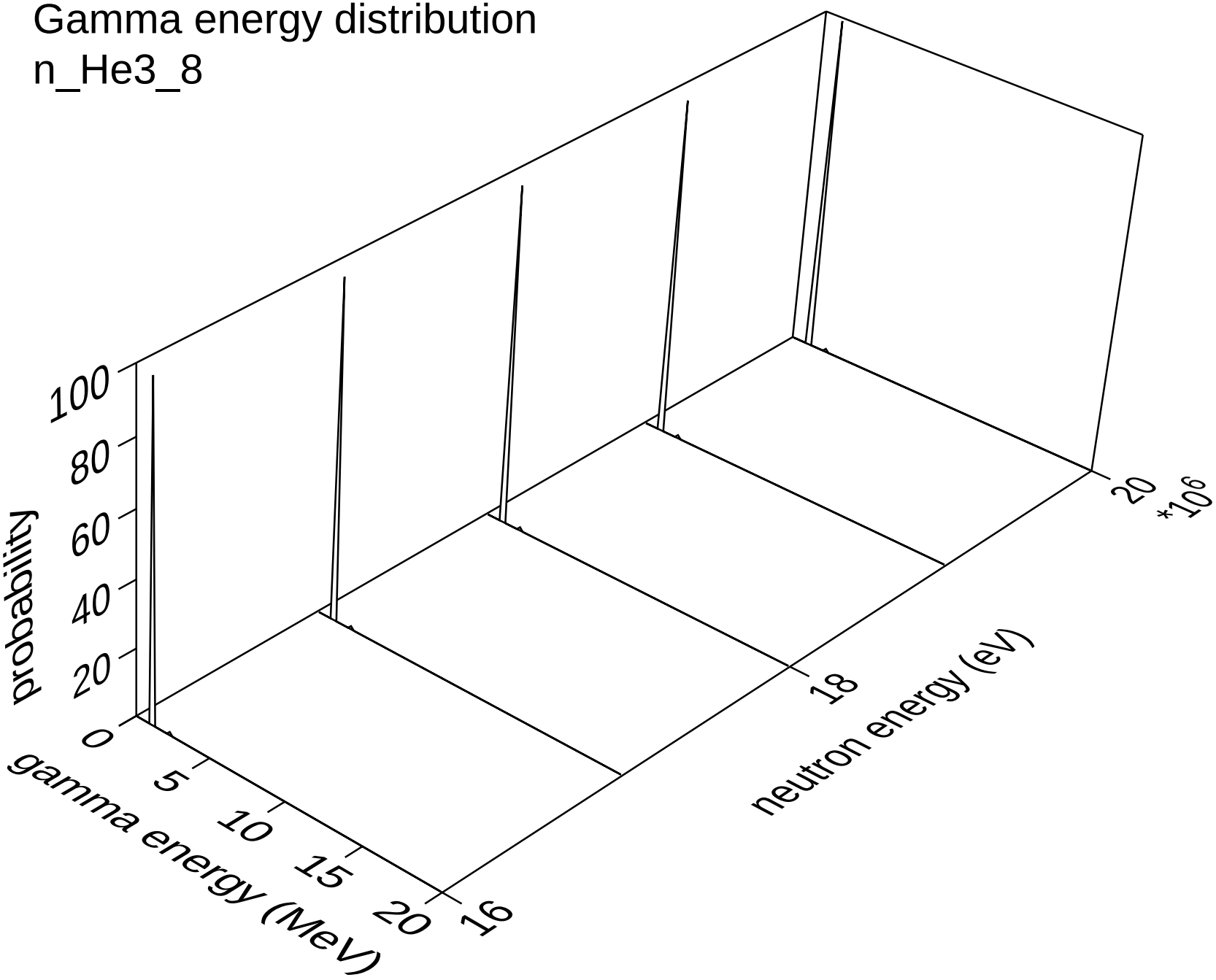

Gamma angles distribution
n_He3_6
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

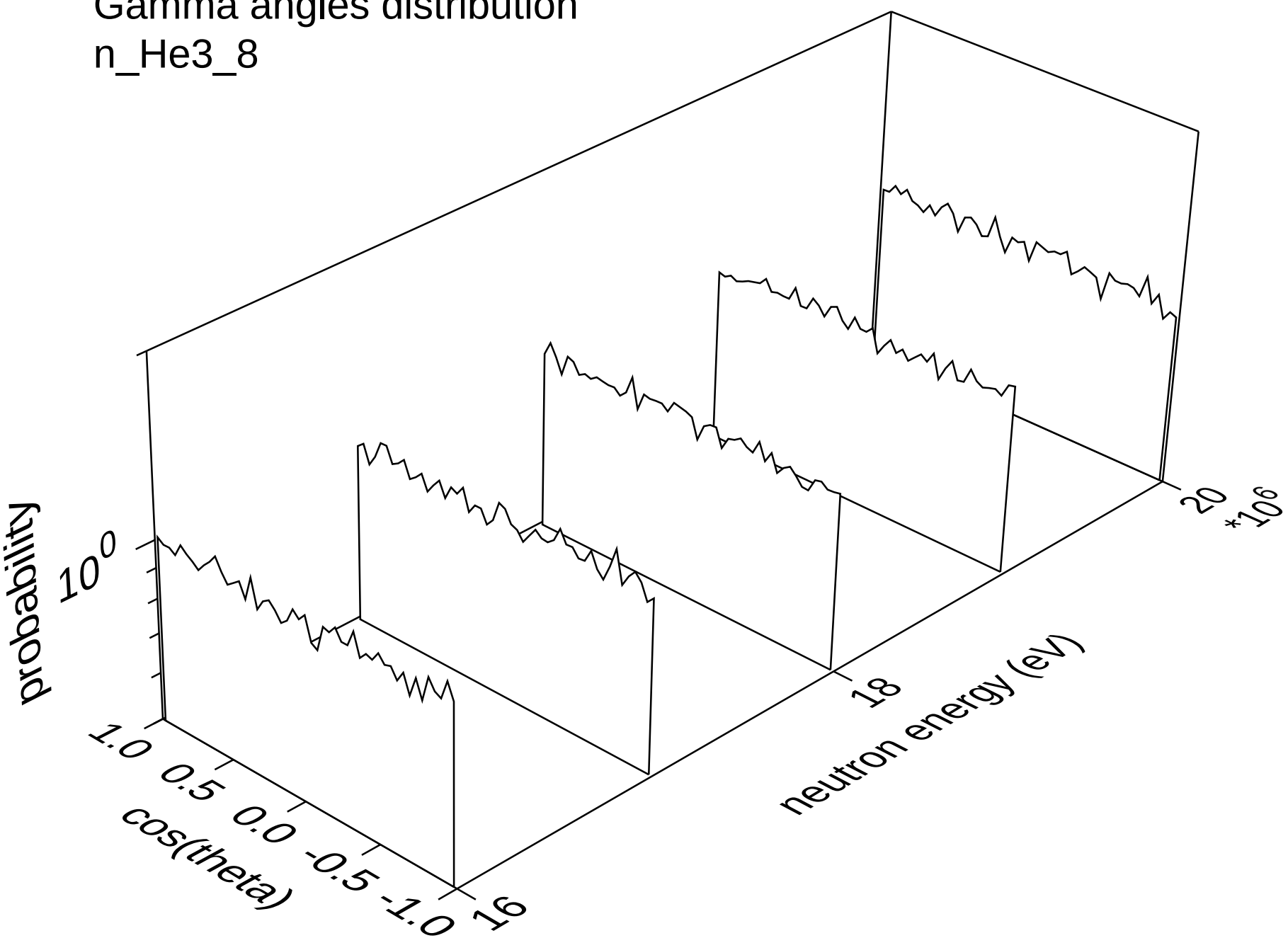

Gamma multiplicities distribution
n_He3_6
probability
20
15
10
5
0.5
1.0
1.5
2.0
2.5
multiplicity
16
18
20
*10^6
neutron energy (eV)


Gamma energy distribution
n_He3_7
probability
100
50
0
gamma energy (MeV)
5
10
15
20
16
neutron energy (eV)
18
20
*10^6

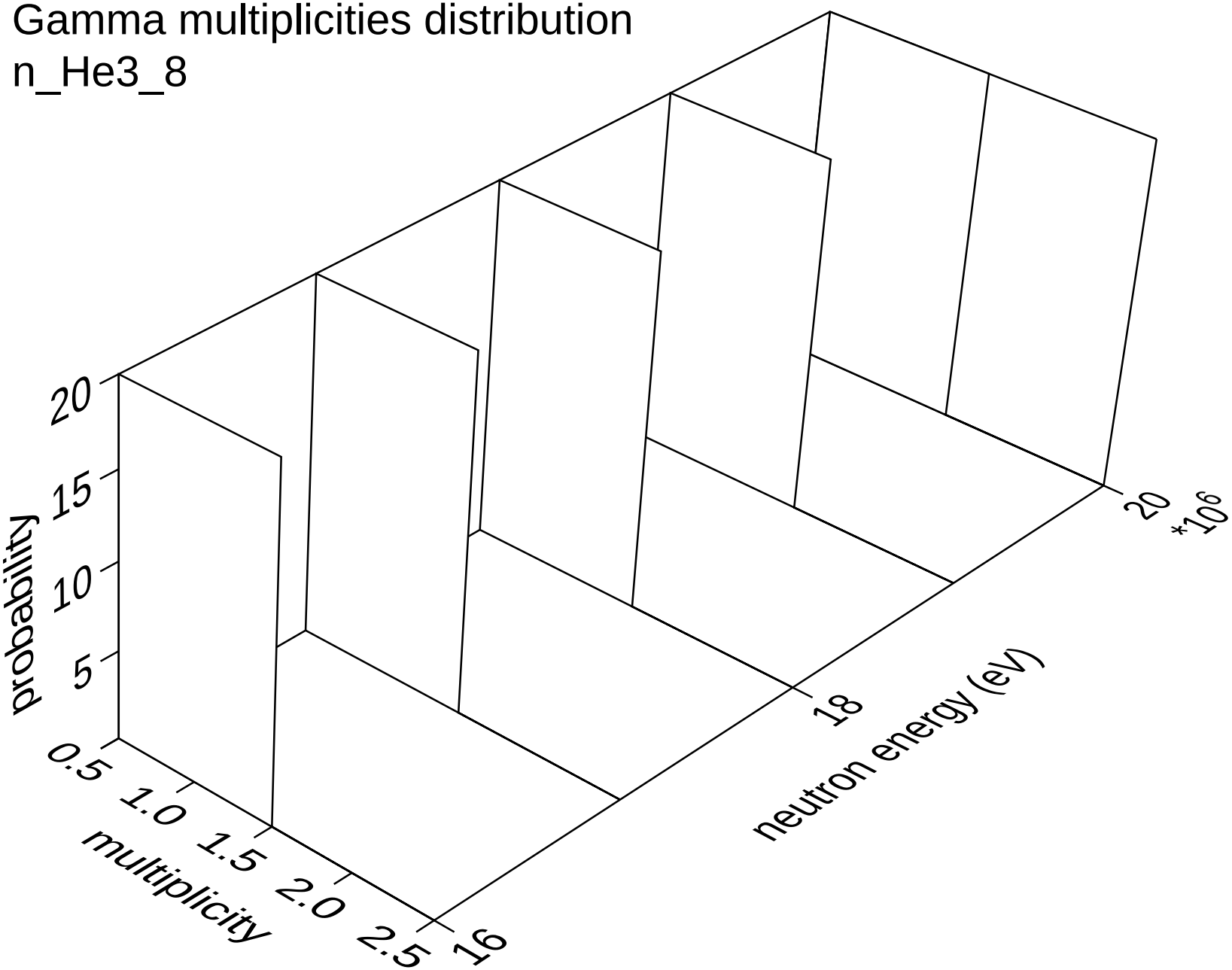

Gamma angles distribution
n_He3_7
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

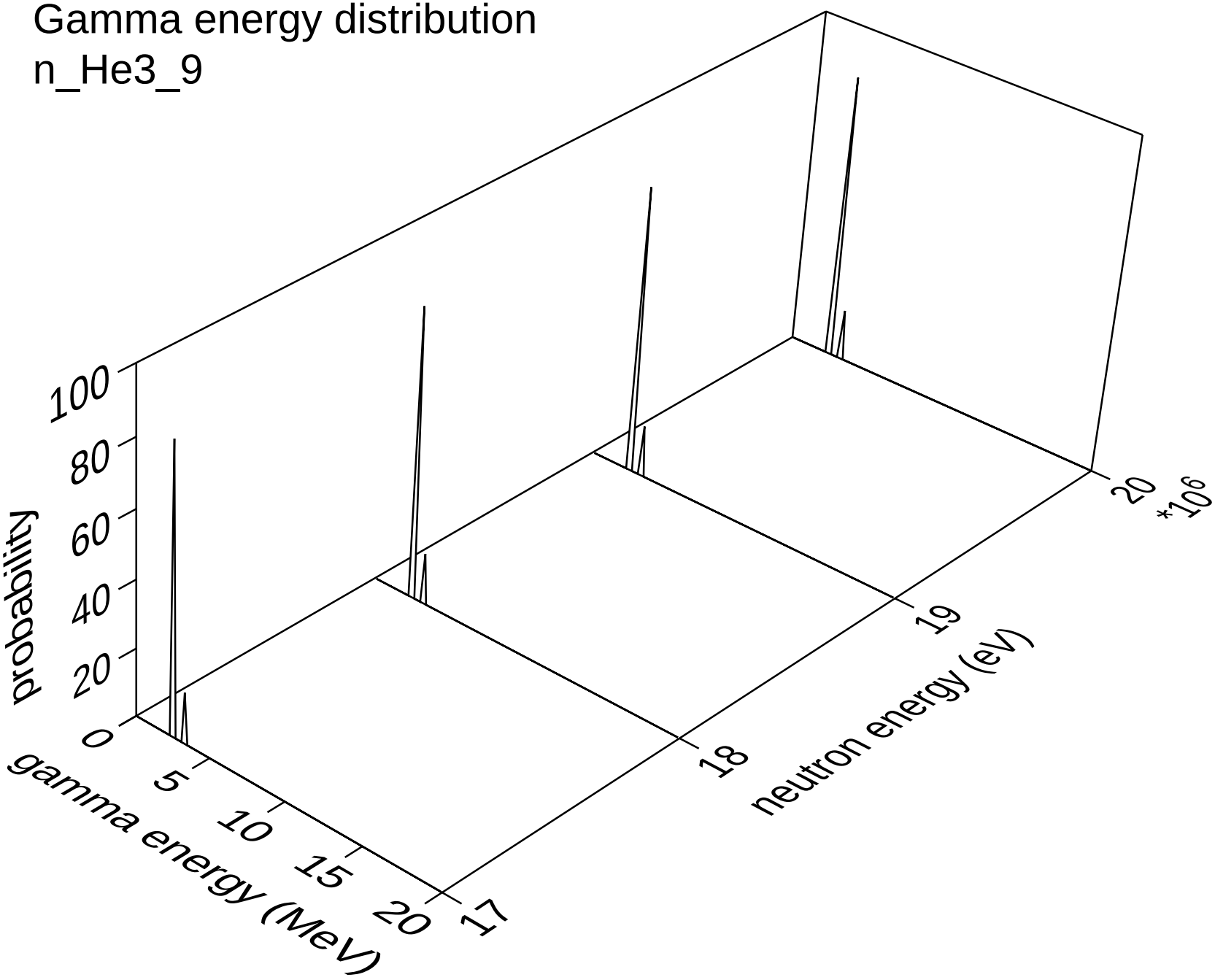

Gamma multiplicities distribution
n_He3_7
probability
20
15
10
5
0.5
1.0
1.5
2.0
2.5
multiplicity
16
18
20
*10^6
neutron energy (eV)

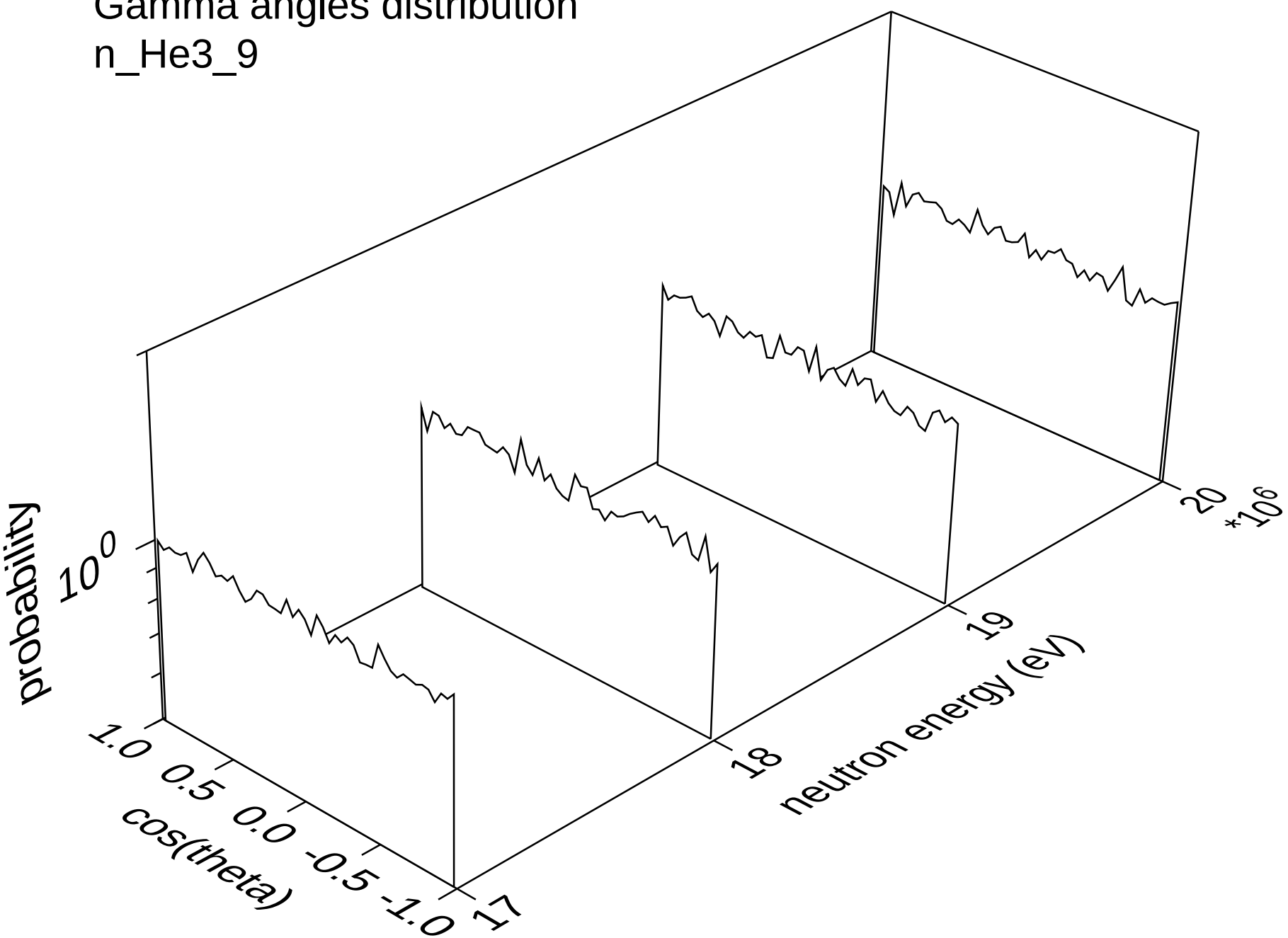

Gamma energy distribution
n_He3_8
probability
100
80
60
40
20
0
gamma energy (MeV)
5
10
15
20
16
neutron energy (eV)
18
20
*10^6


Gamma angles distribution
n_He3_8
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

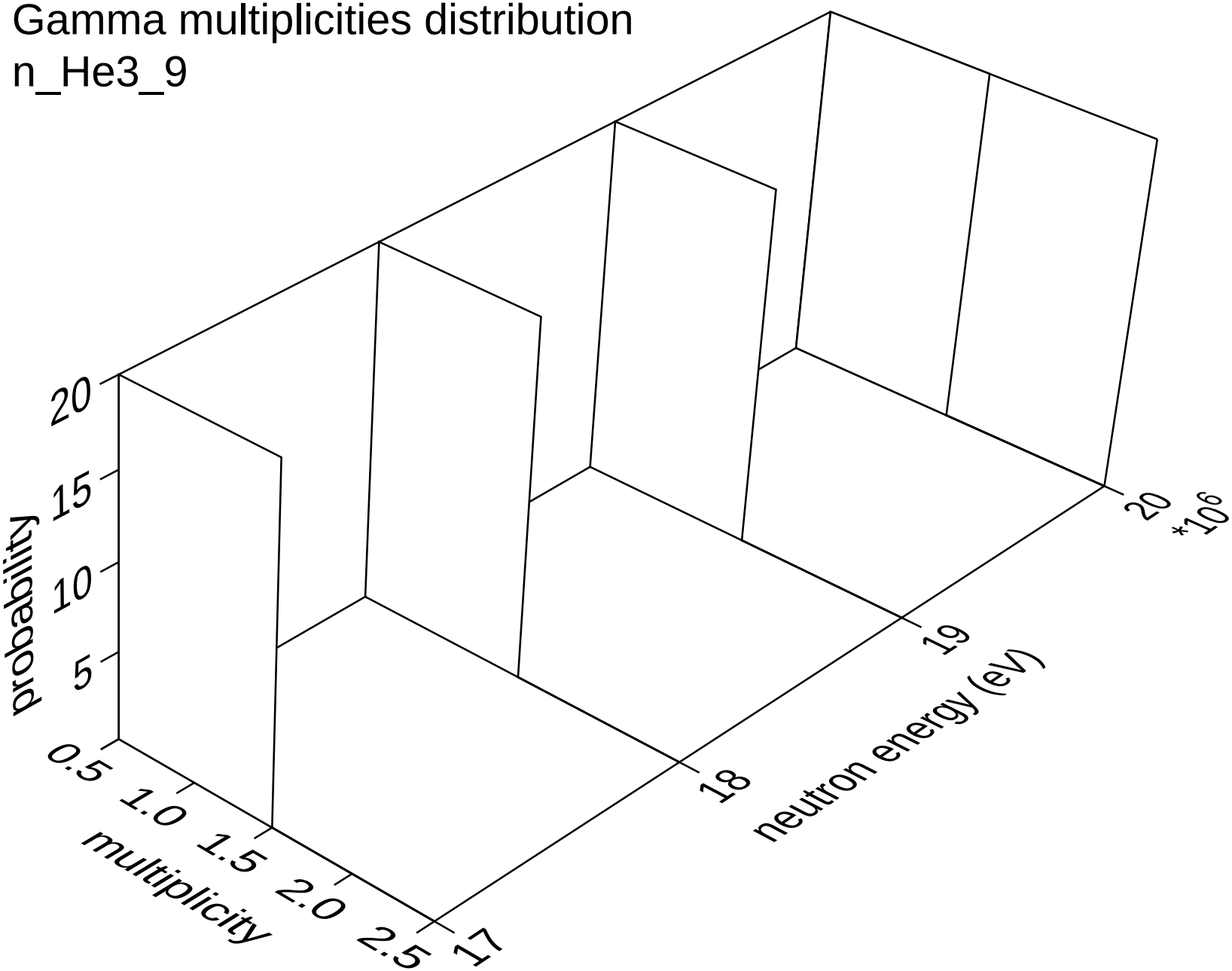
Gamma multiplicities distribution
n_He3_8

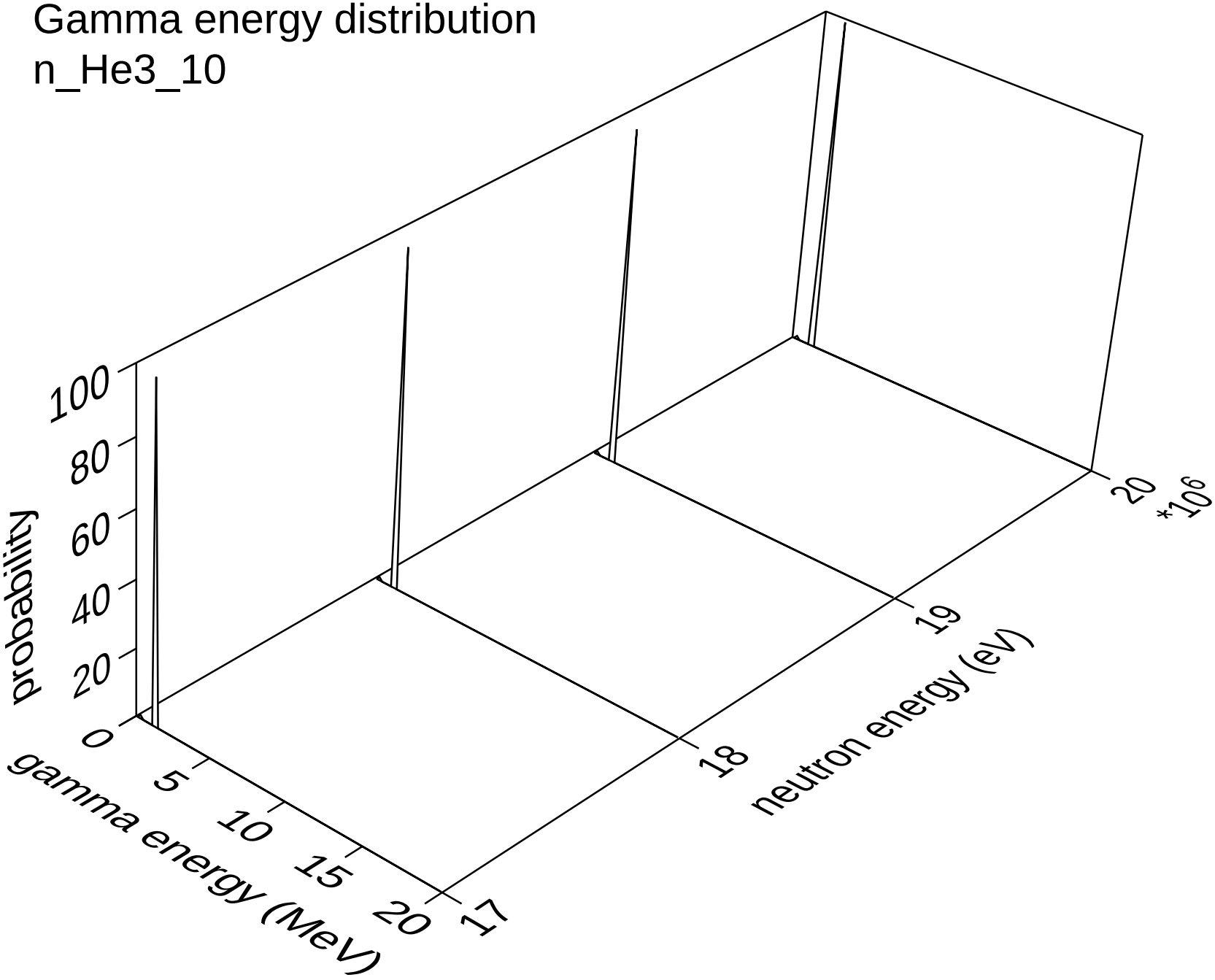


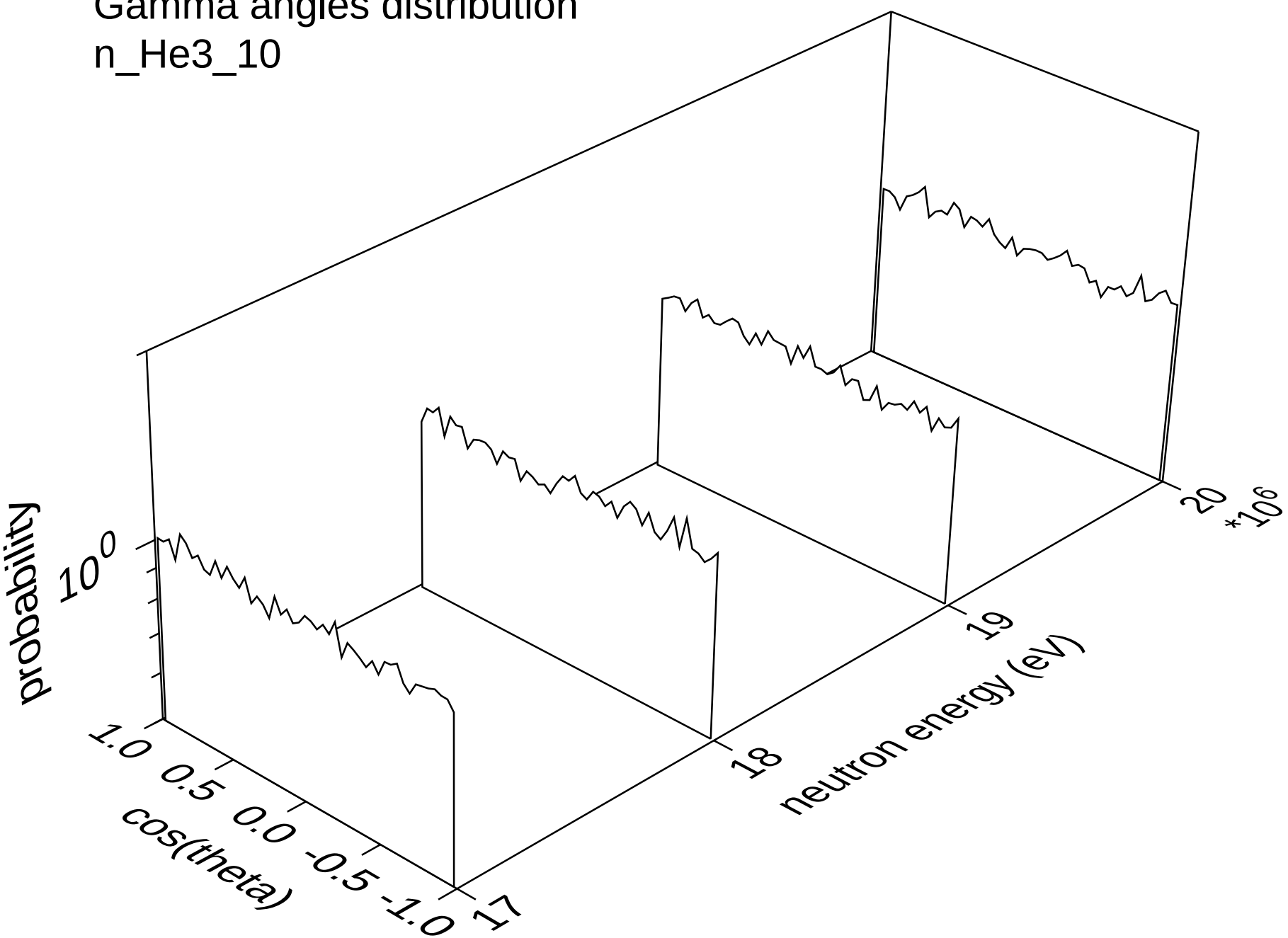

Gamma energy distribution
n_He3_9
probability
100
80
60
40
20
0
gamma energy (MeV)
5
10
15
20
17
18
19
20
*10^6
neutron energy (eV)


Gamma angles distribution
n_He3_9
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)

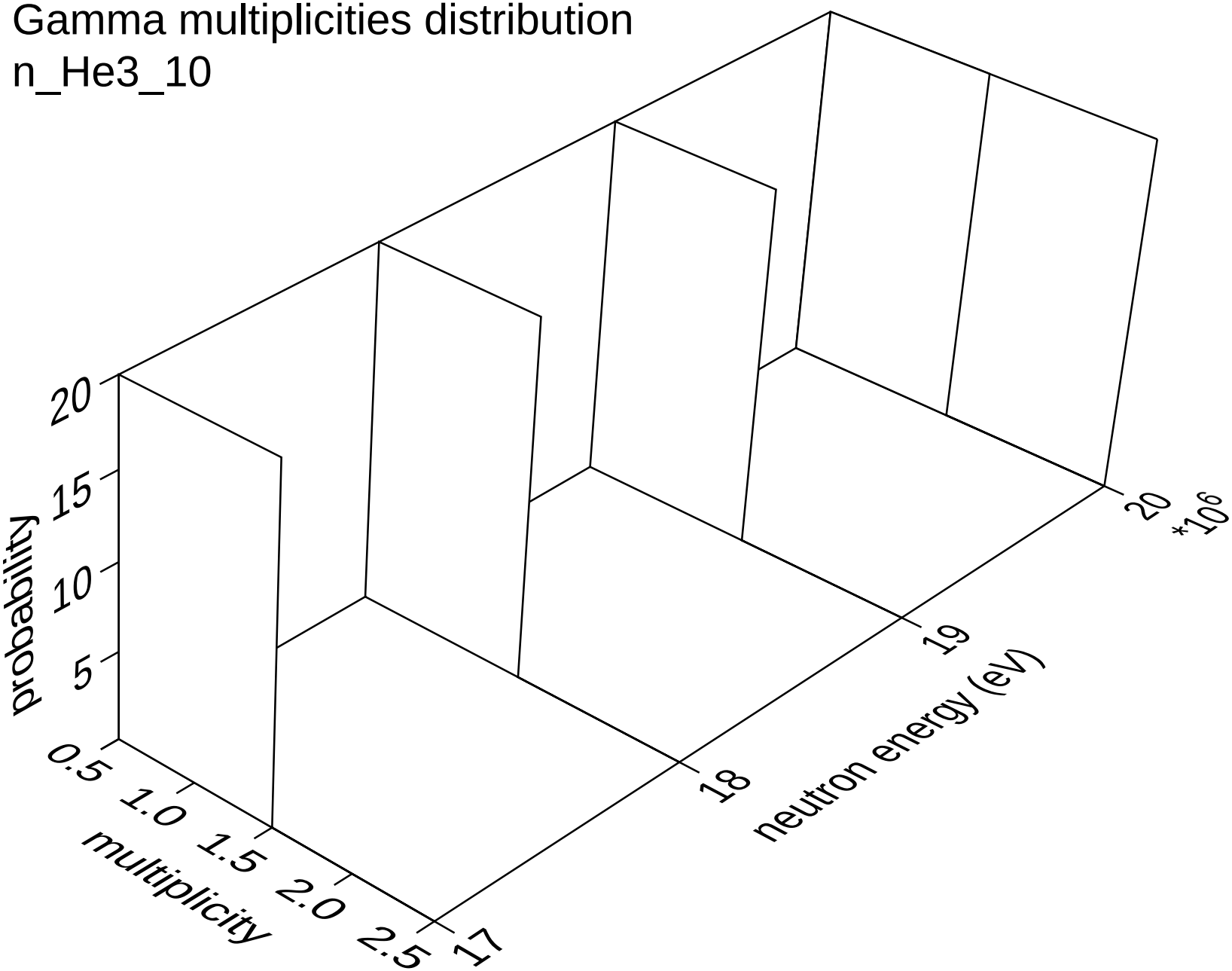
Gamma multiplicities distribution
n_He3_9

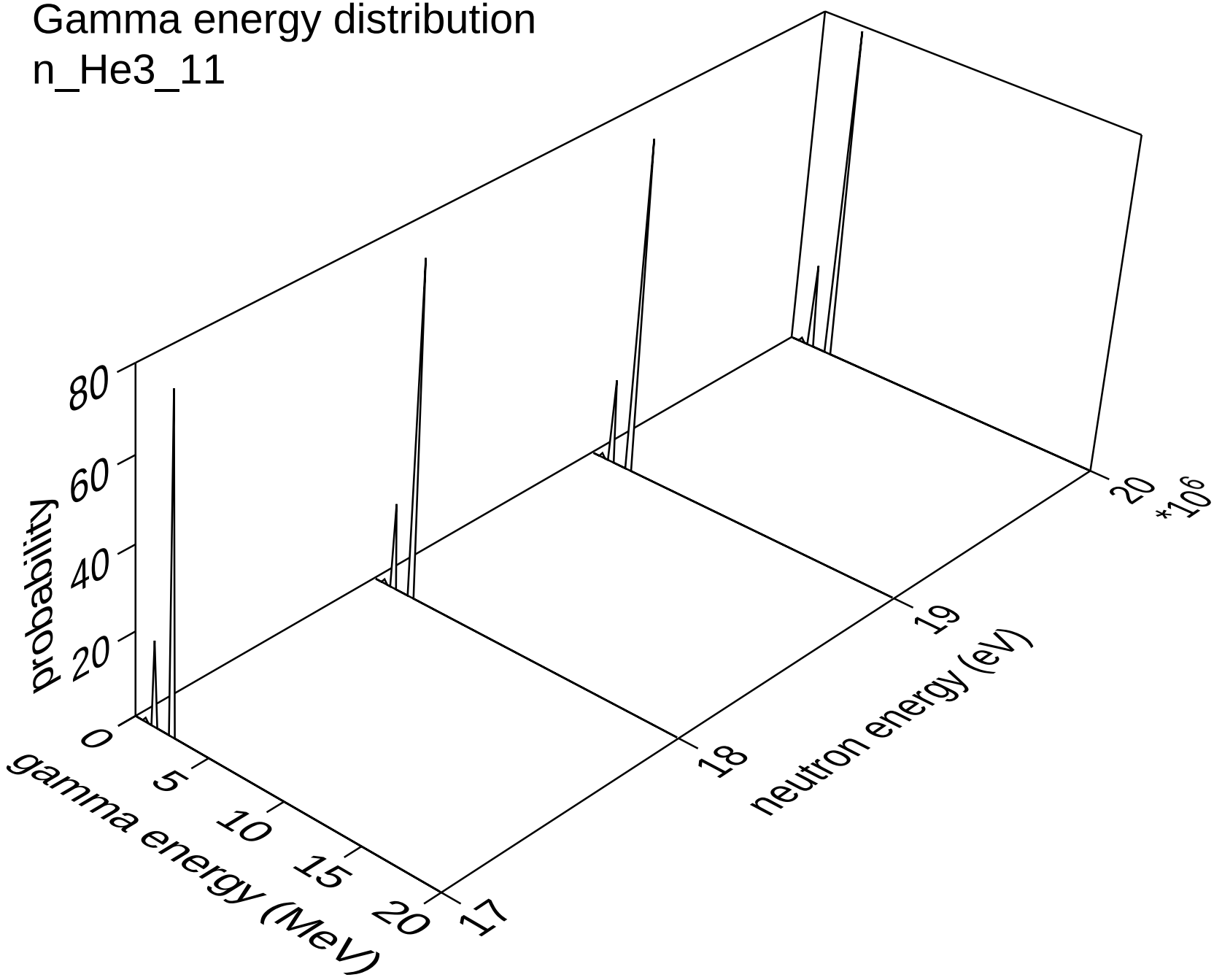


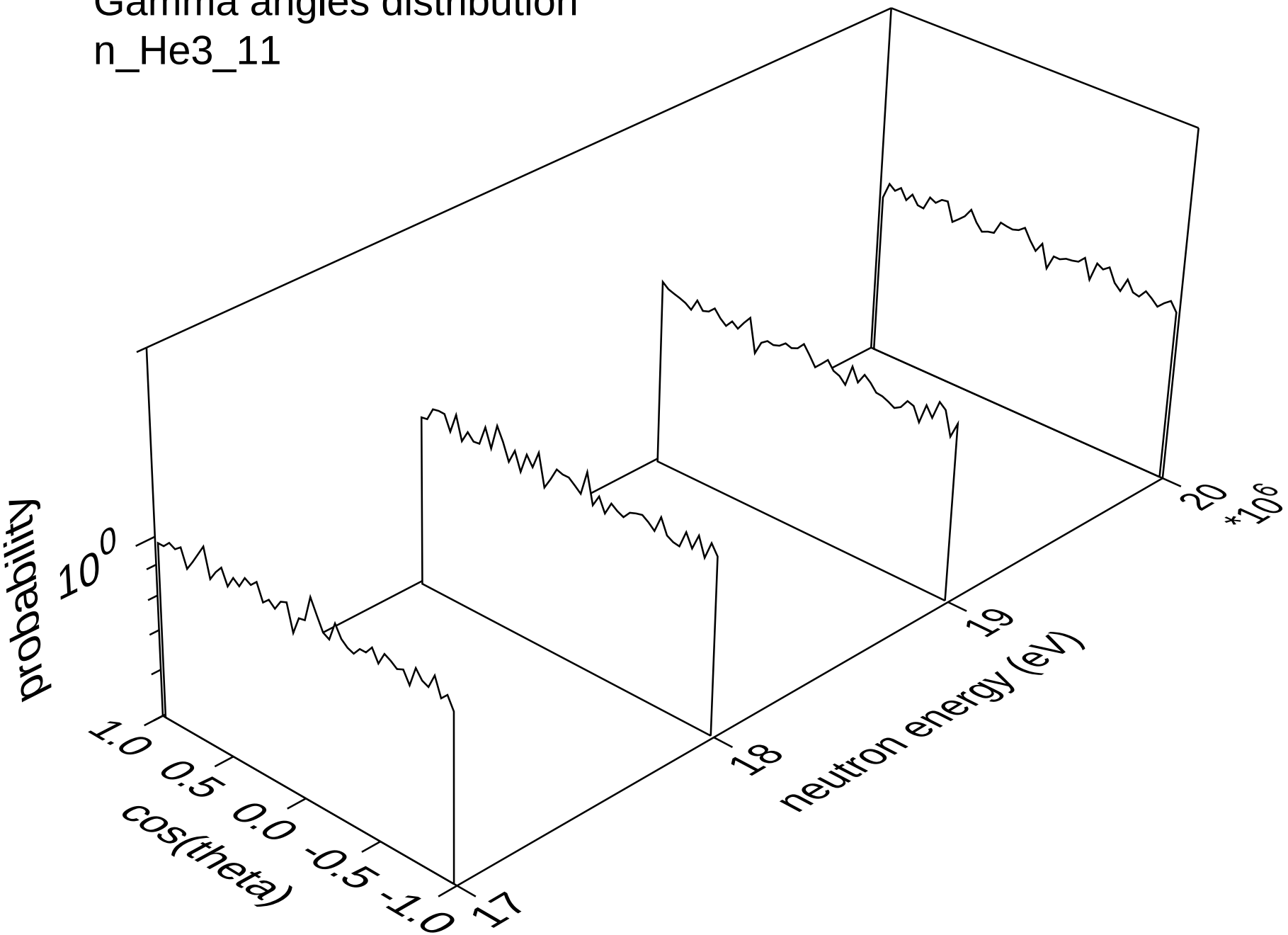

Gamma energy distribution
n_He3_10
probability
100
80
60
40
20
0
gamma energy (MeV)
5
10
15
20
17
18
neutron energy (eV)
19
20
*10^6


Gamma angles distribution
n_He3_10
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)

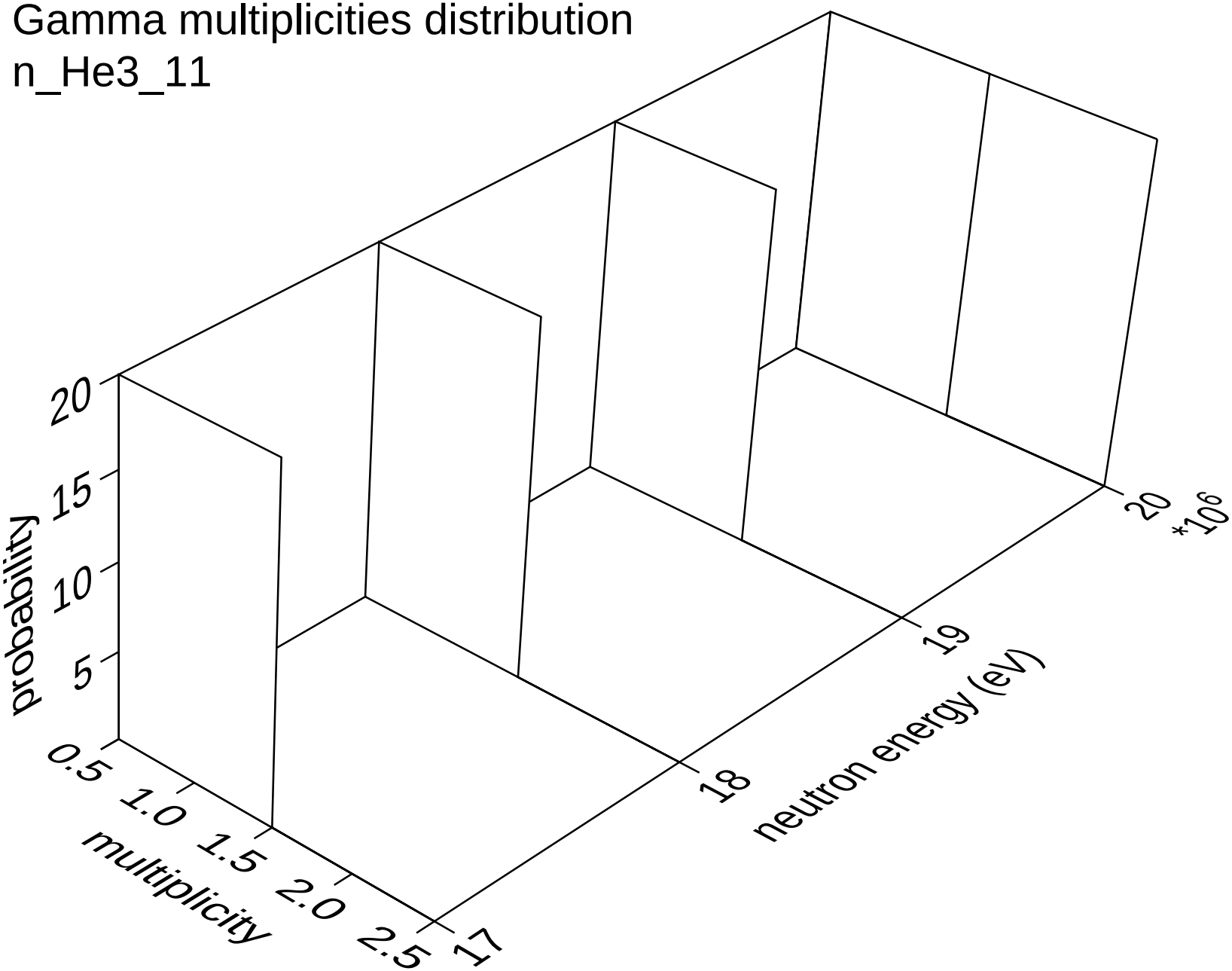
Gamma multiplicities distribution
n_He3_10

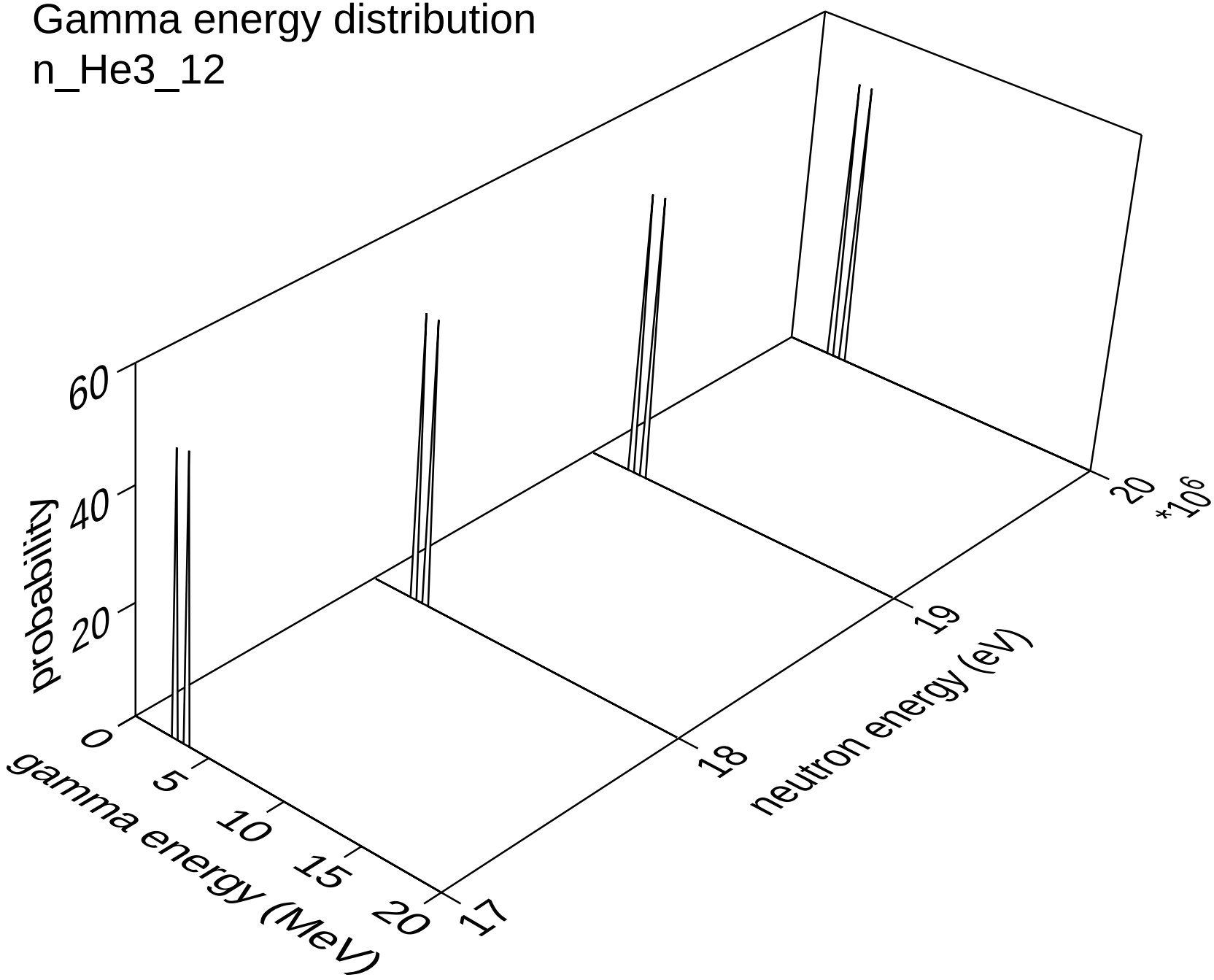


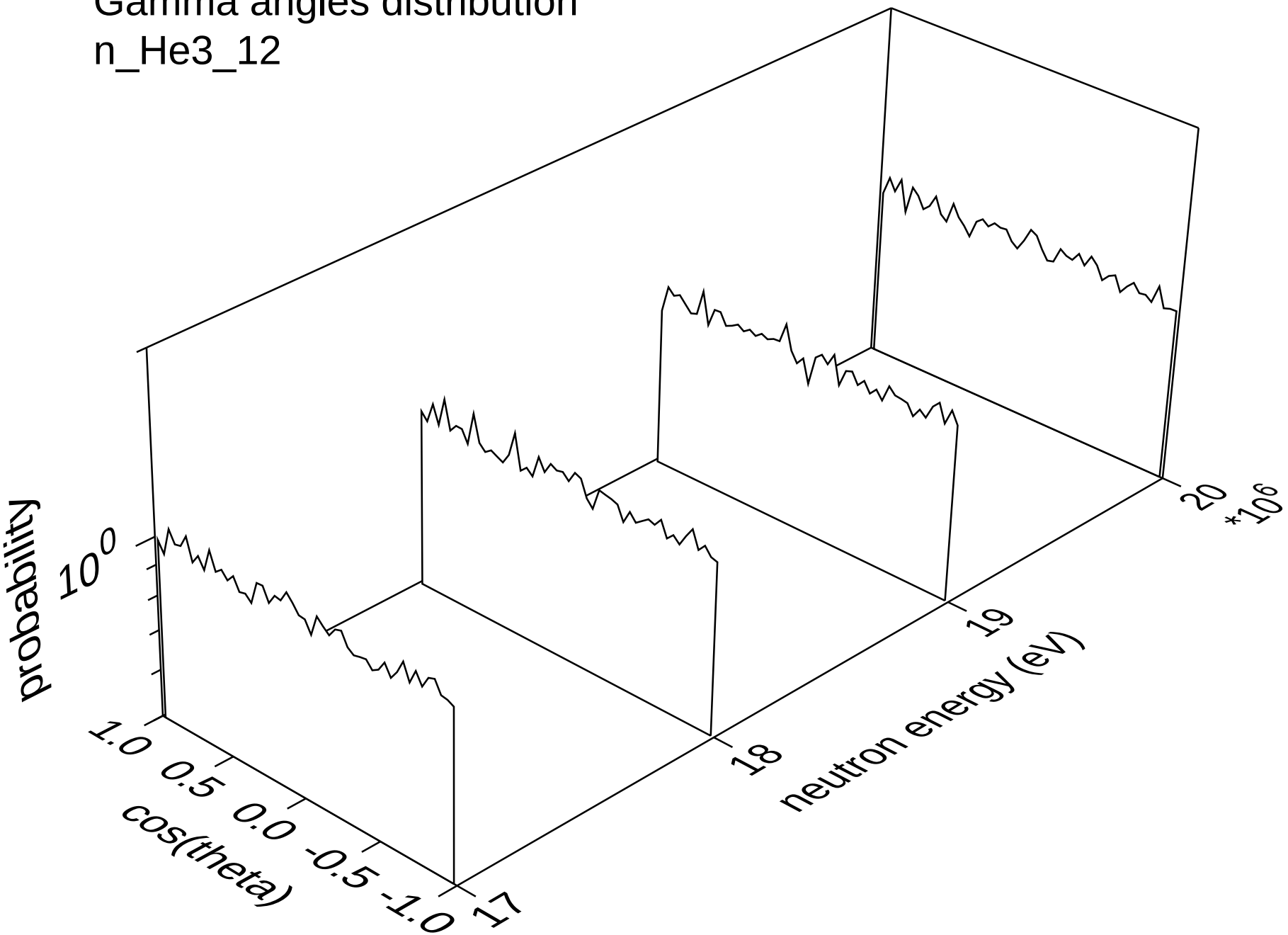

Gamma energy distribution
n_He3_11
probability
0
20
40
60
80
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
17
18
19
20
*10^6


Gamma angles distribution
n_He3_11
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)

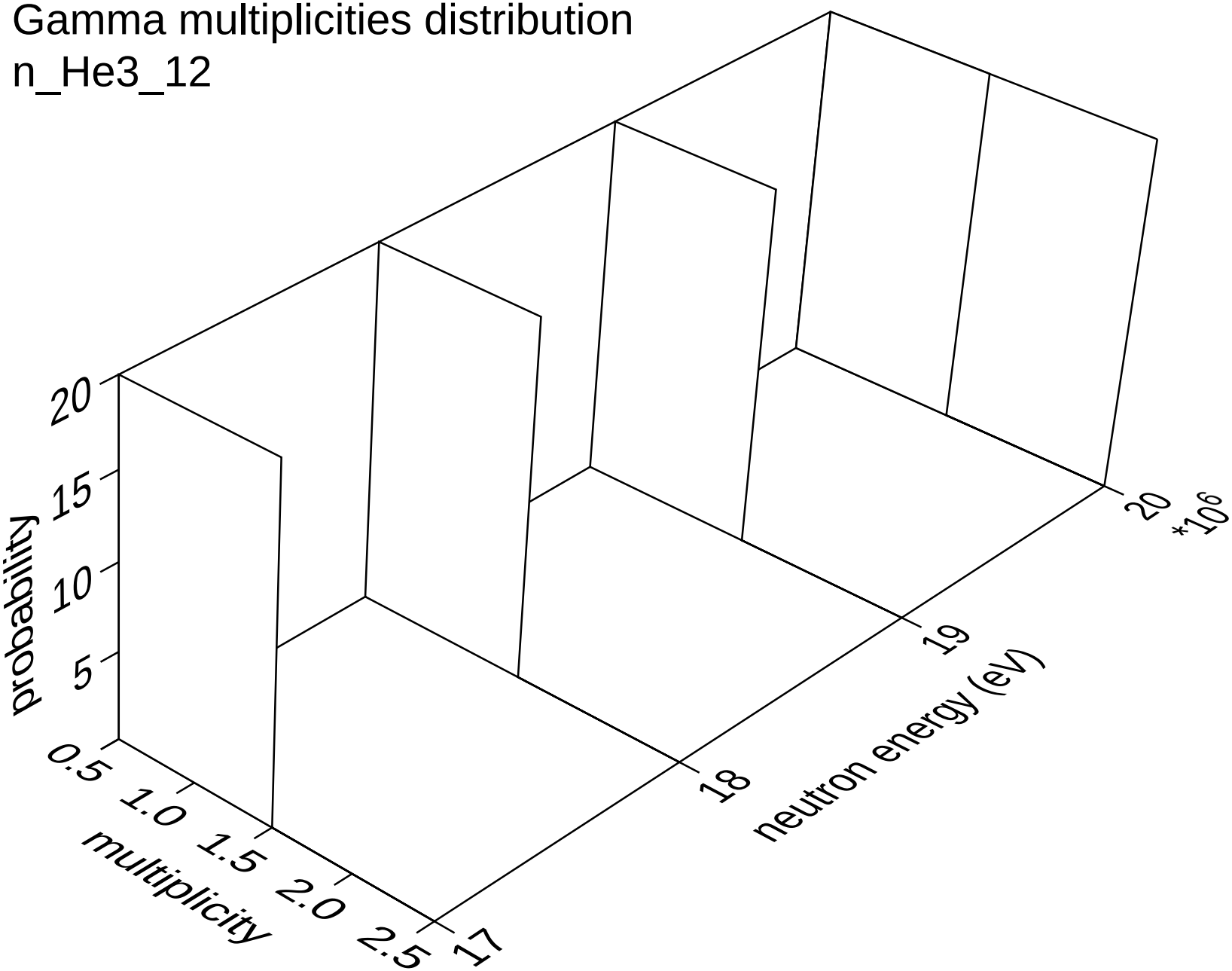
Gamma multiplicities distribution
n_He3_11

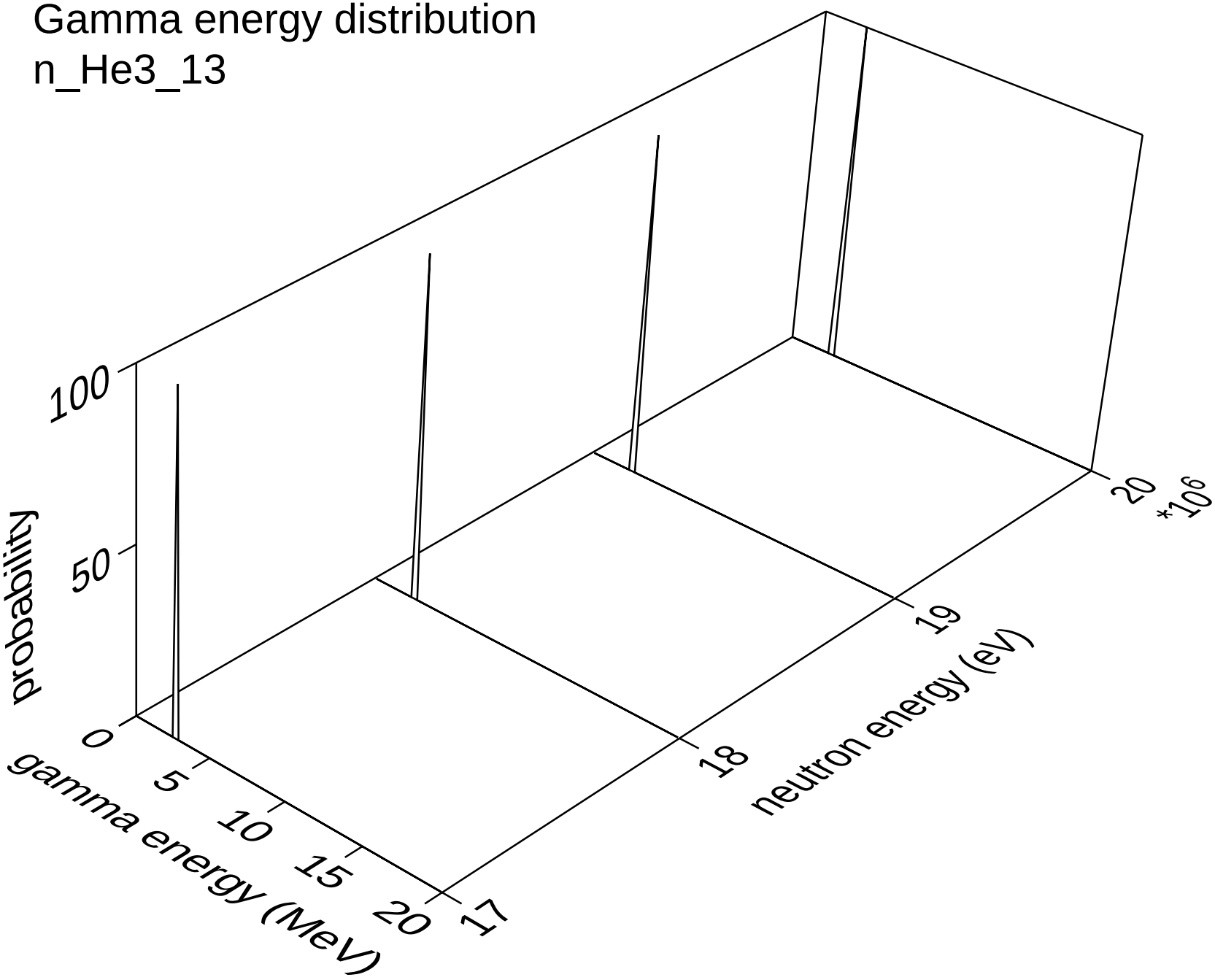


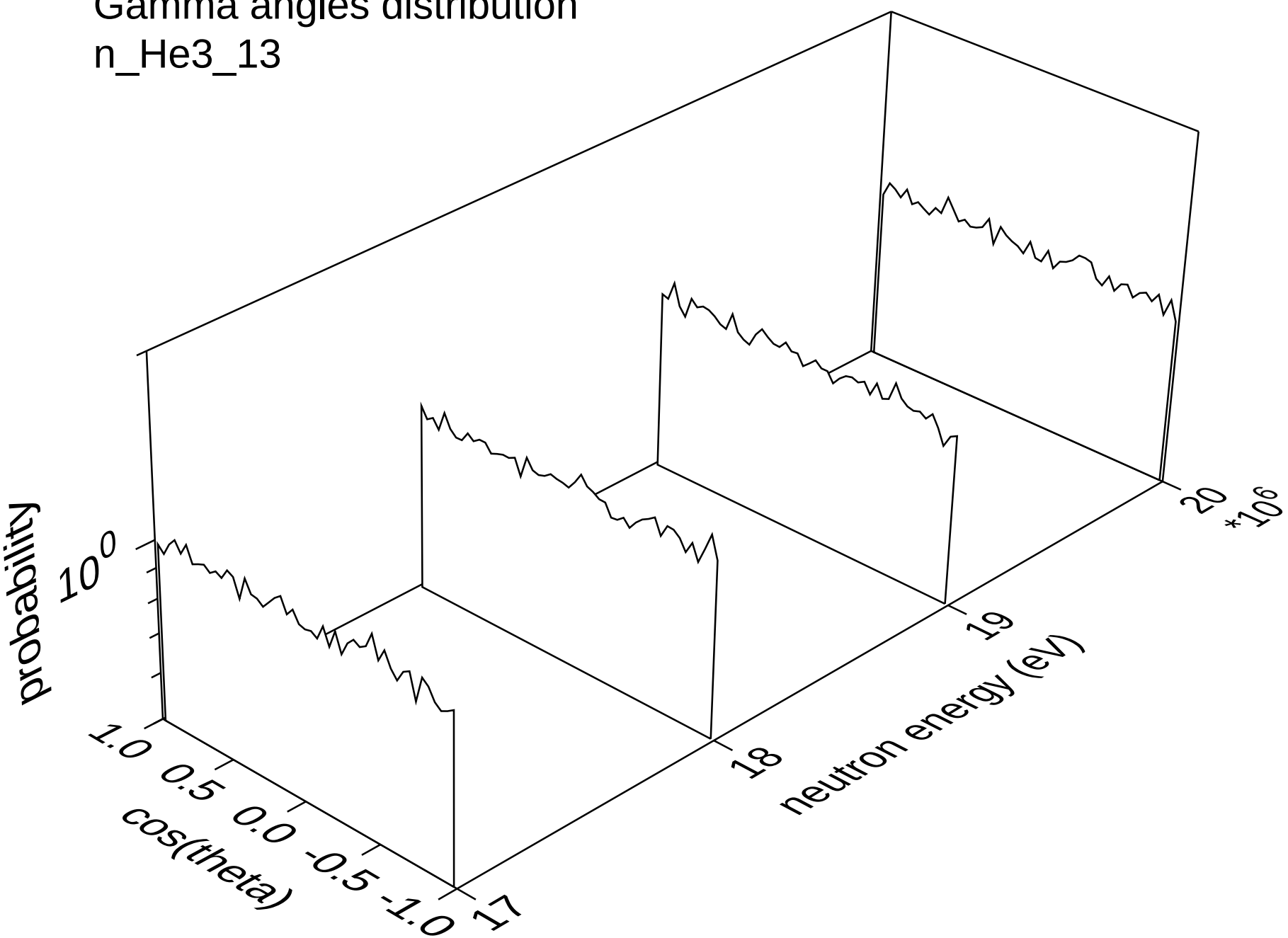

Gamma energy distribution
n_He3_12
probability
60
40
20
0
gamma energy (MeV)
5
10
15
20
17
18
neutron energy (eV)
19
20
*10^6


Gamma angles distribution
n_He3_12
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)

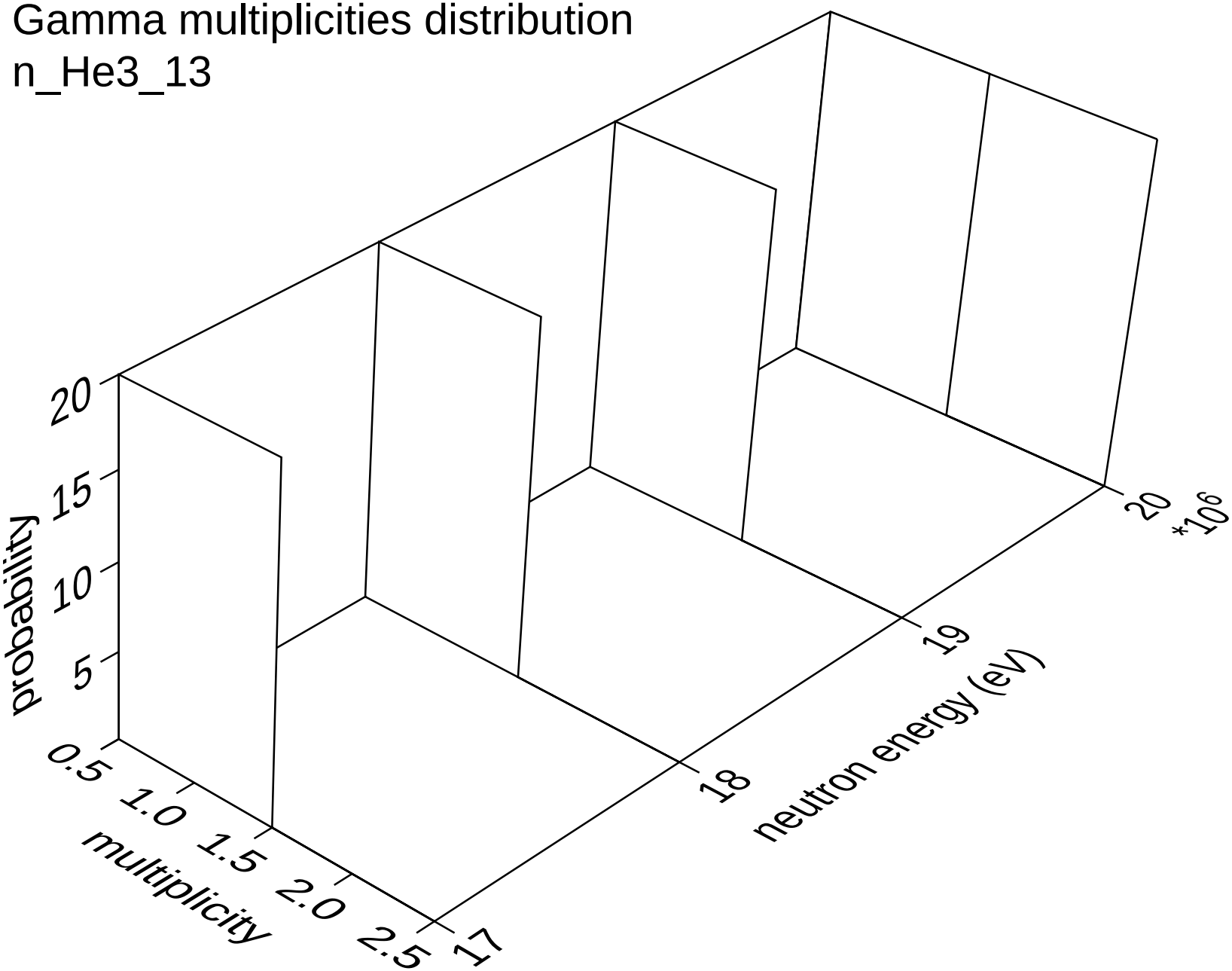
Gamma multiplicities distribution
n_He3_12

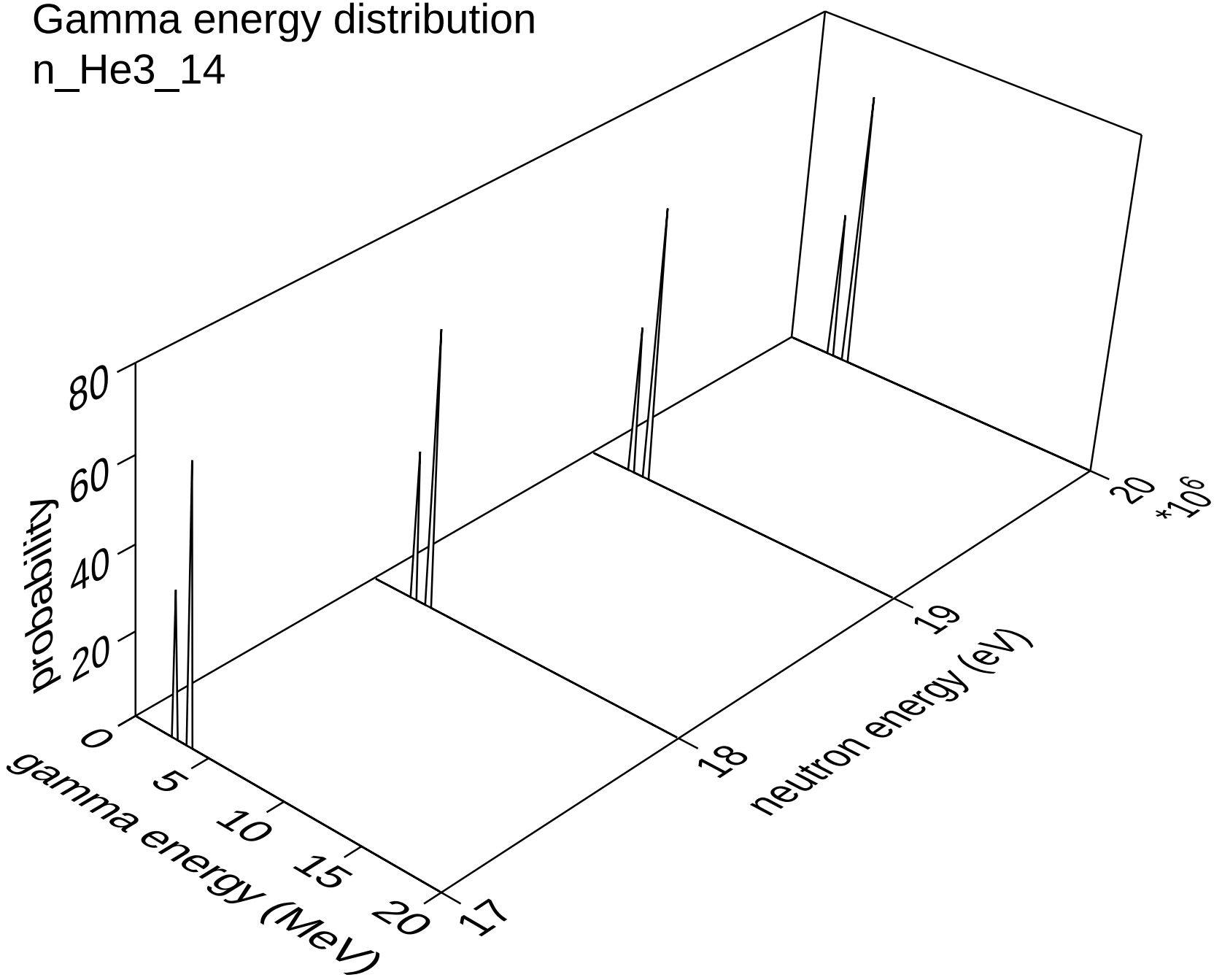


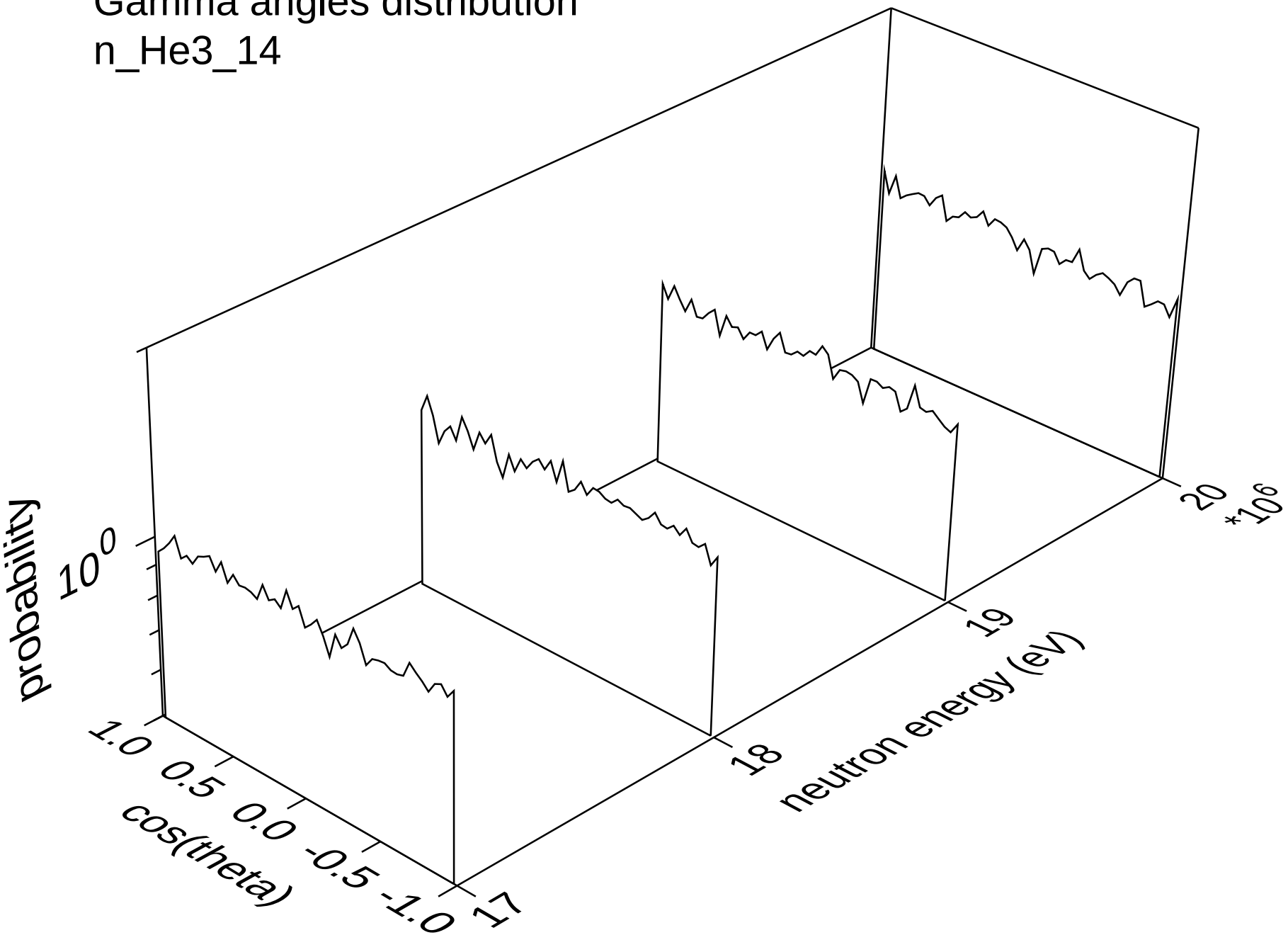

Gamma energy distribution
n_He3_13
probability
100
50
0
gamma energy (MeV)
5
10
15
20
17
18
neutron energy (eV)
19
20
*10^6


Gamma angles distribution
n_He3_13
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)

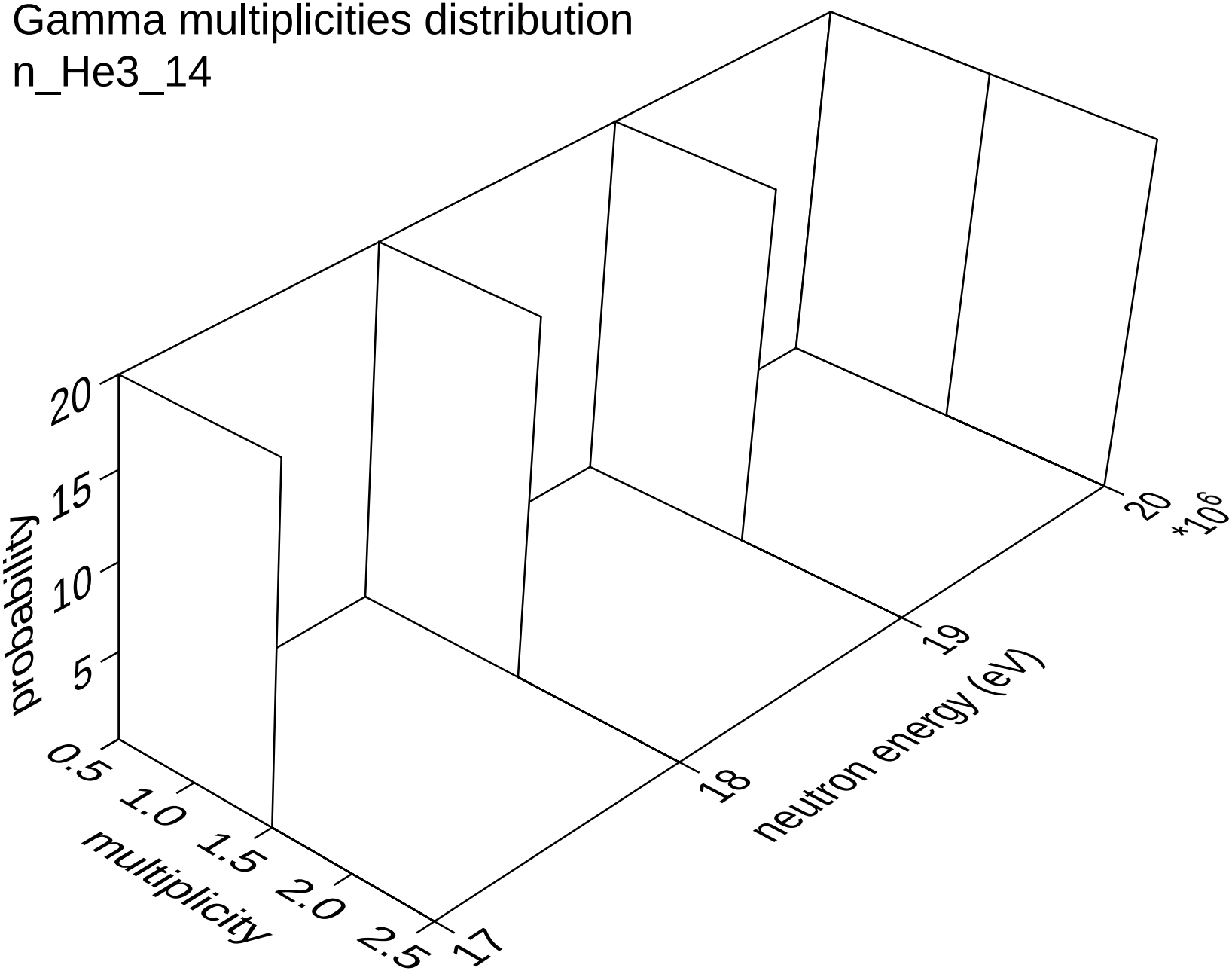
Gamma multiplicities distribution
n_He3_13

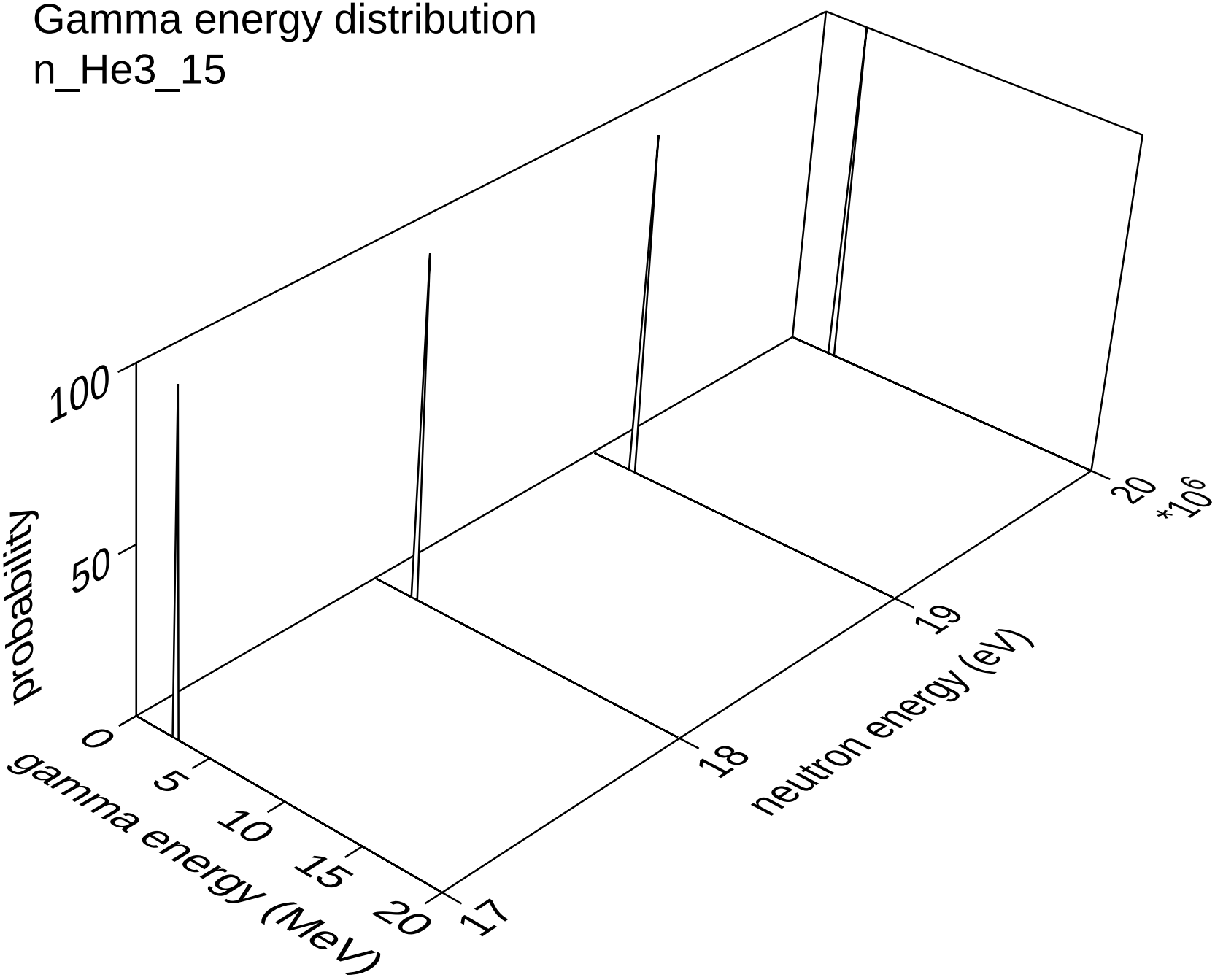


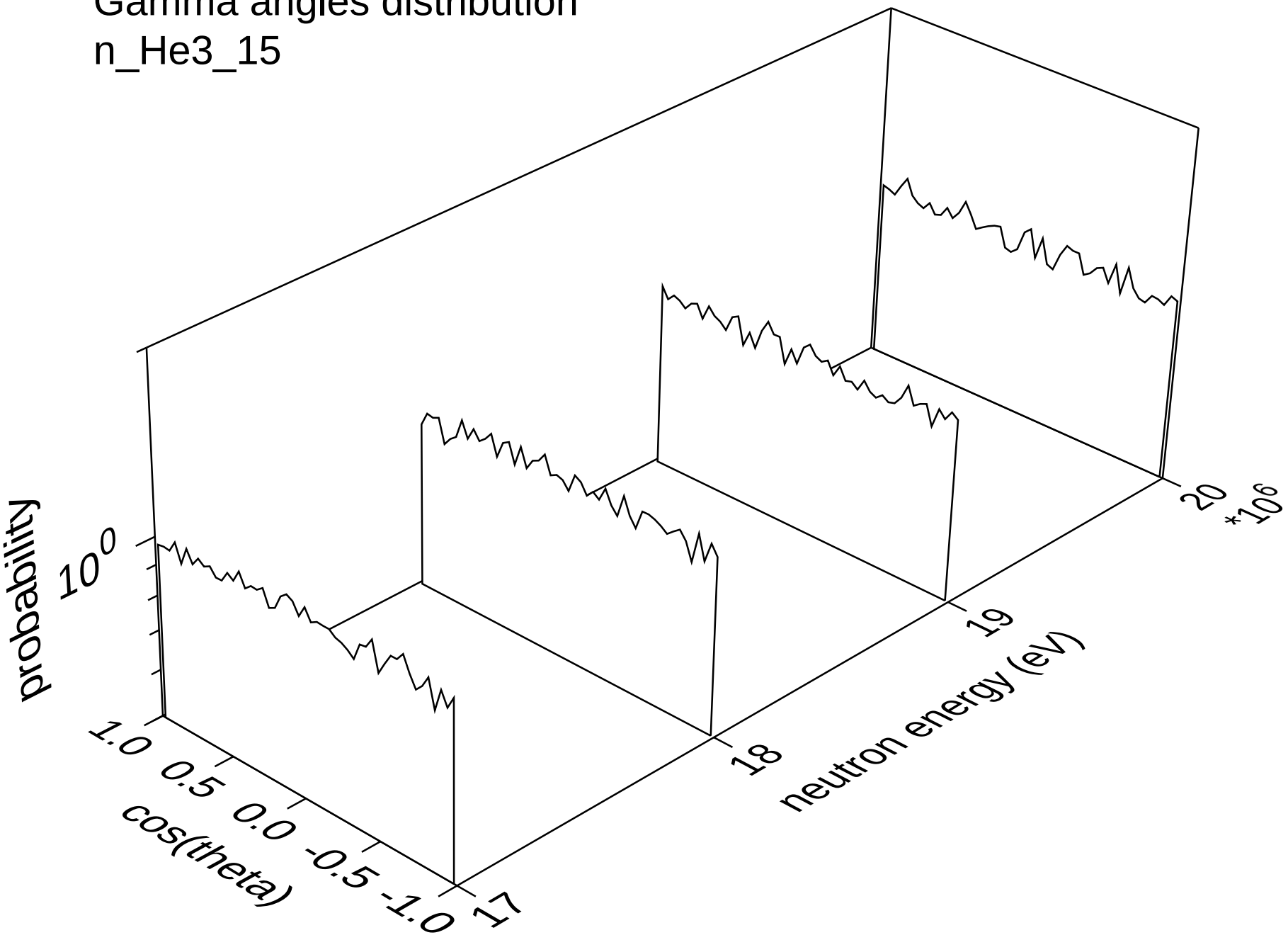

Gamma energy distribution
n_He3_14
probability
0
20
40
60
80
gamma energy (MeV)
5
10
15
20
17
18
19
20
*10^6
neutron energy (eV)


Gamma angles distribution
n_He3_14
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)

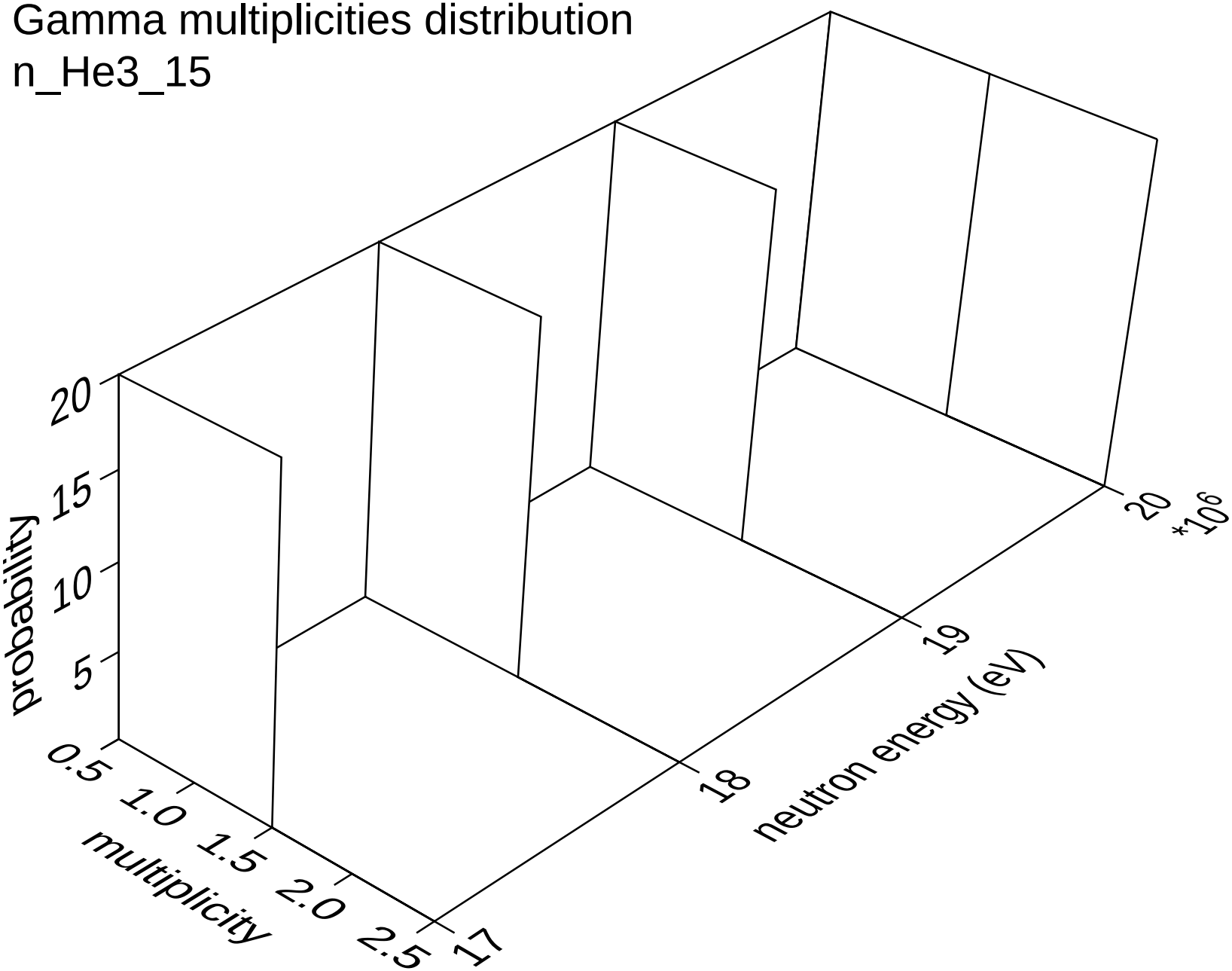
Gamma multiplicities distribution
n_He3_14

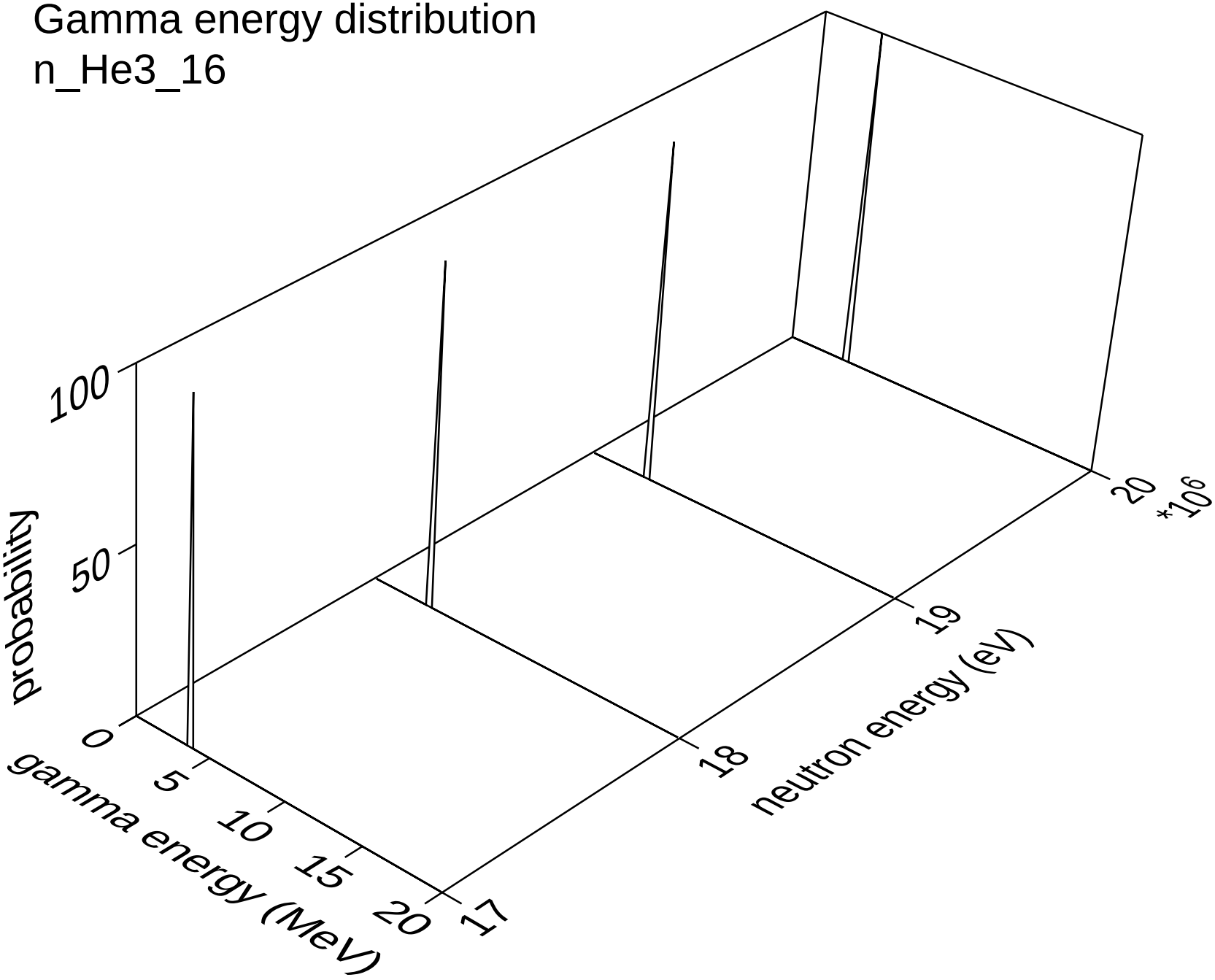


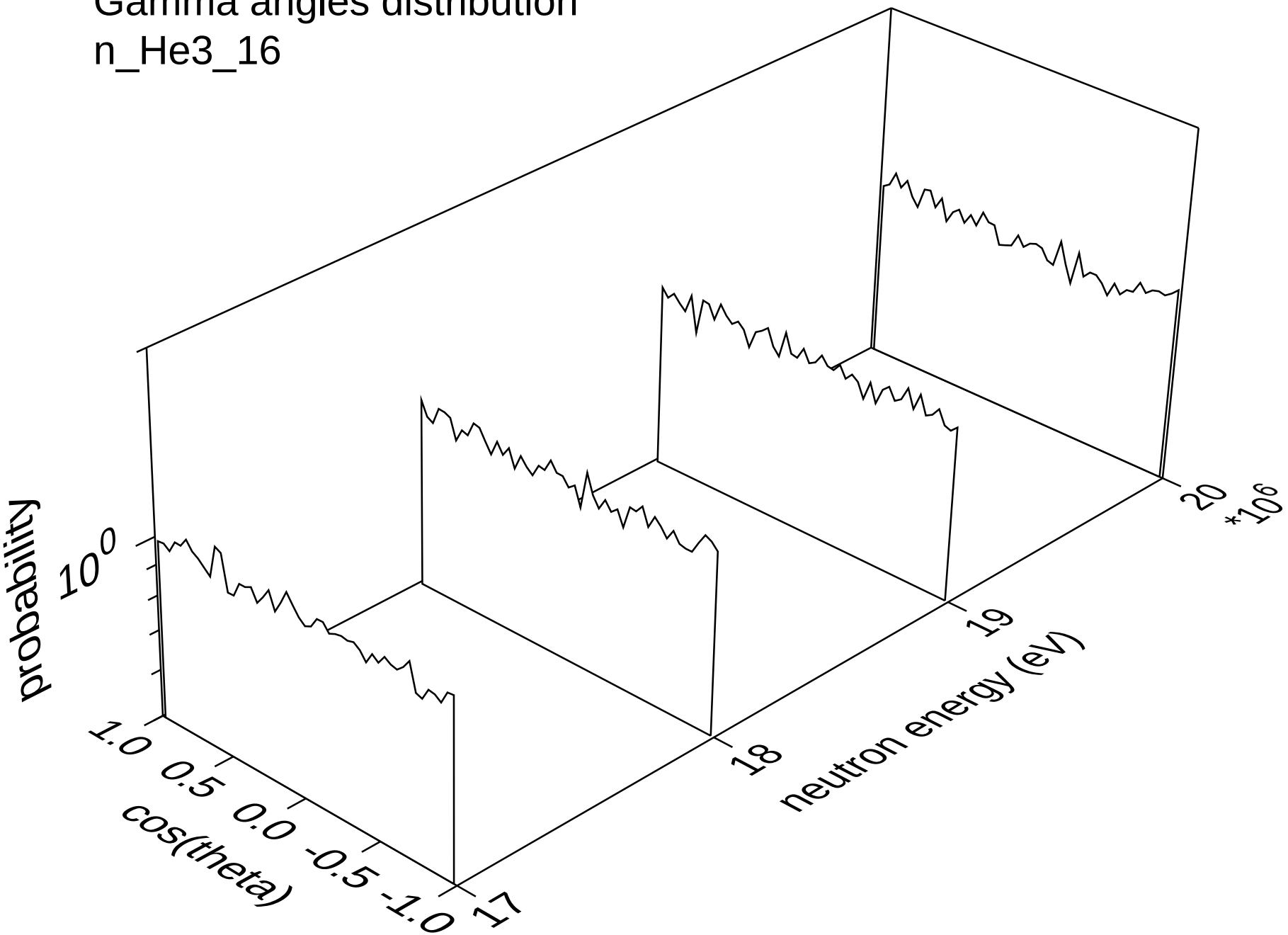

Gamma energy distribution
n_He3_15
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
17
18
19
20
*10^6


Gamma angles distribution
n_He3_15
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)

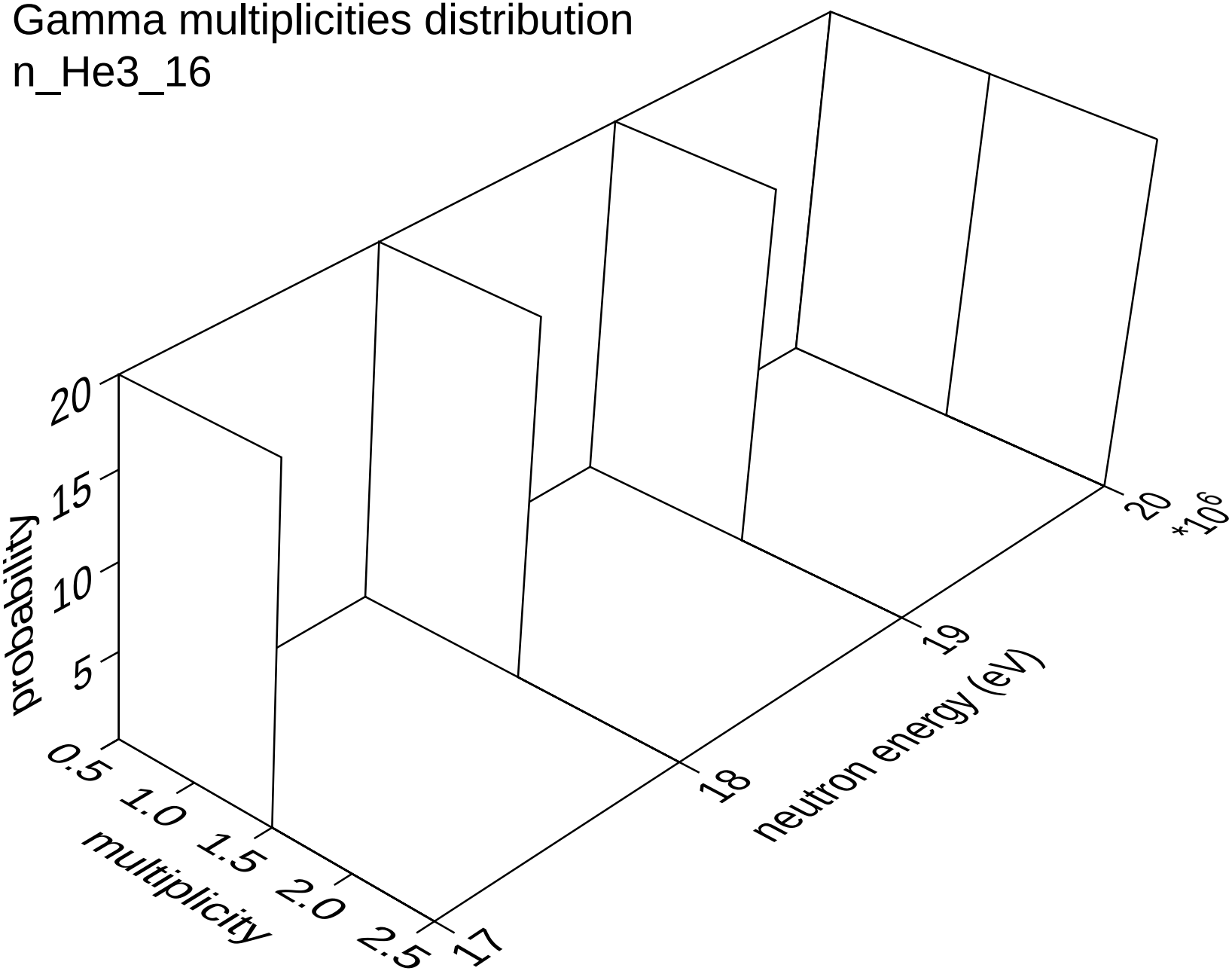
Gamma multiplicities distribution
n_He3_15

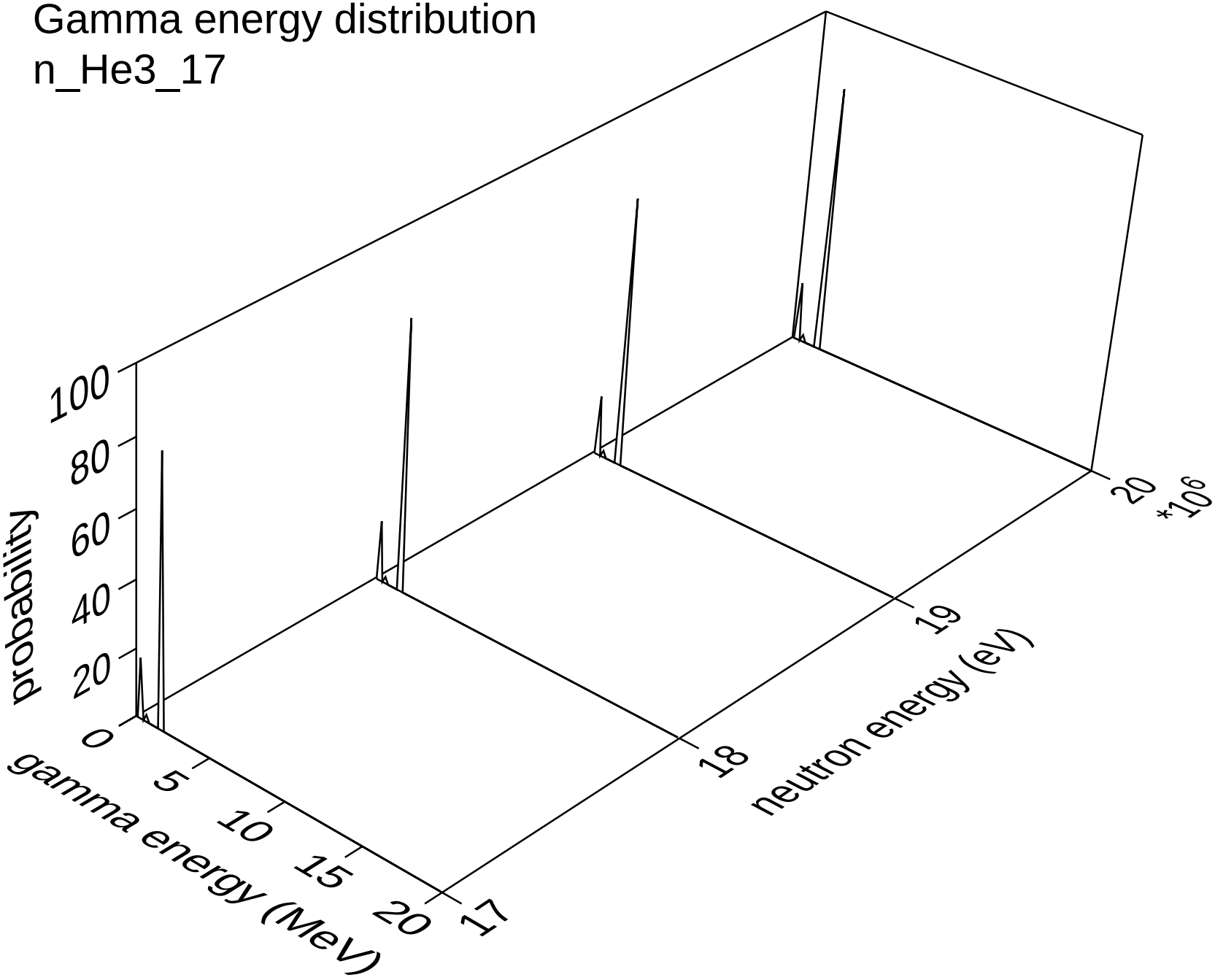


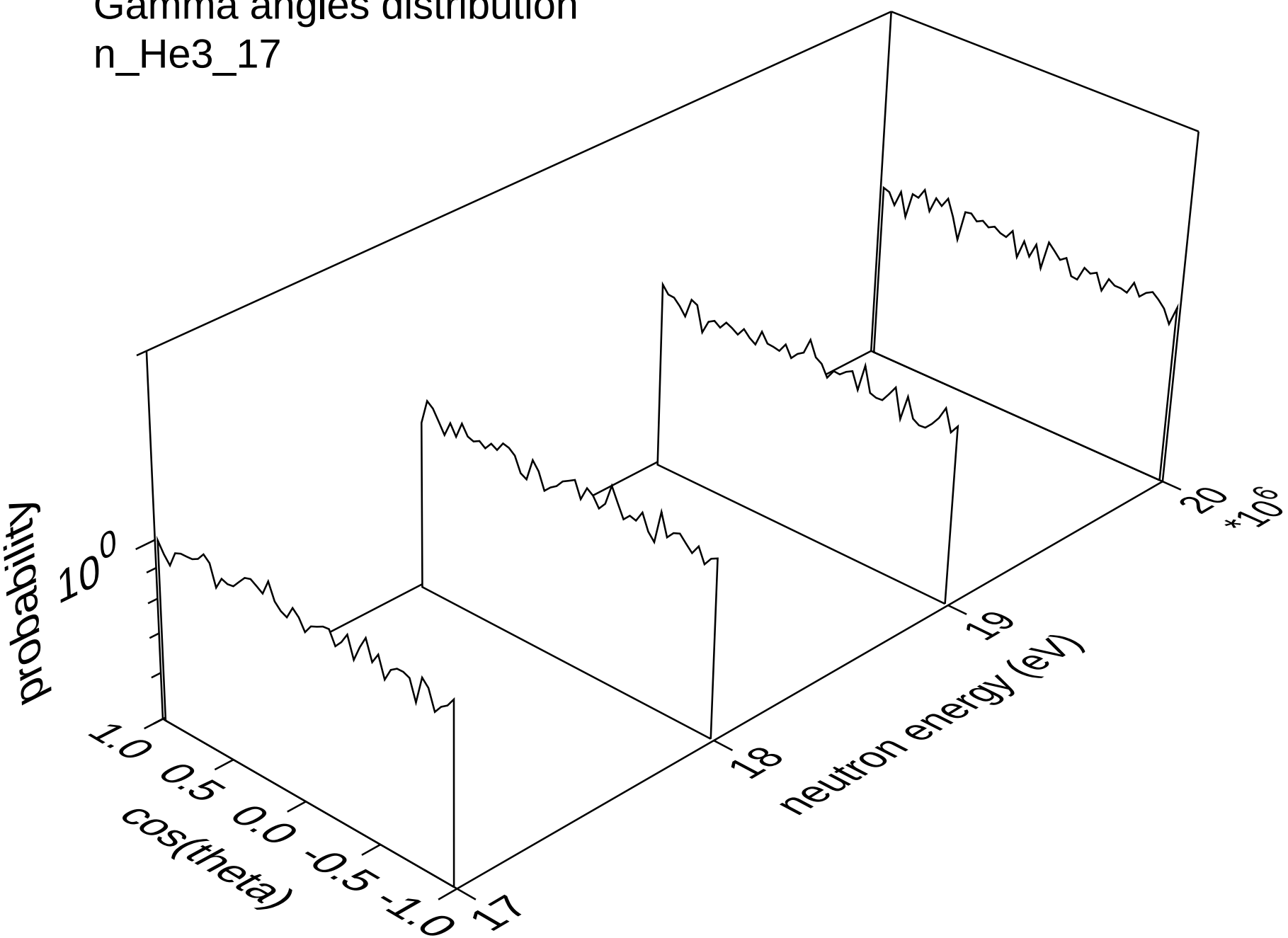

Gamma energy distribution
n_He3_16
probability
100
50
0
gamma energy (MeV)
5
10
15
20
17
18
neutron energy (eV)
19
20
*10^6


Gamma angles distribution
n_He3_16
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)

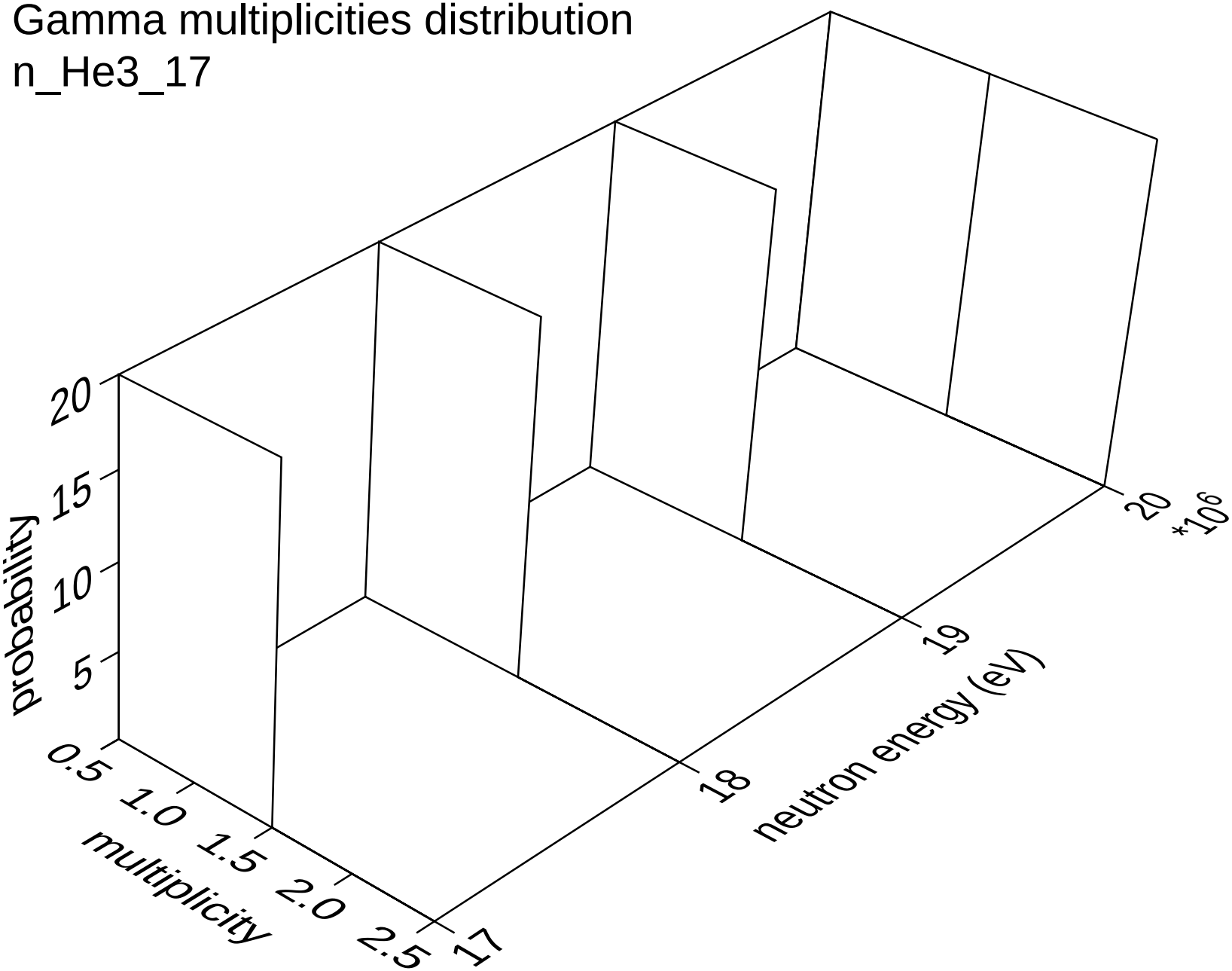
Gamma multiplicities distribution
n_He3_16

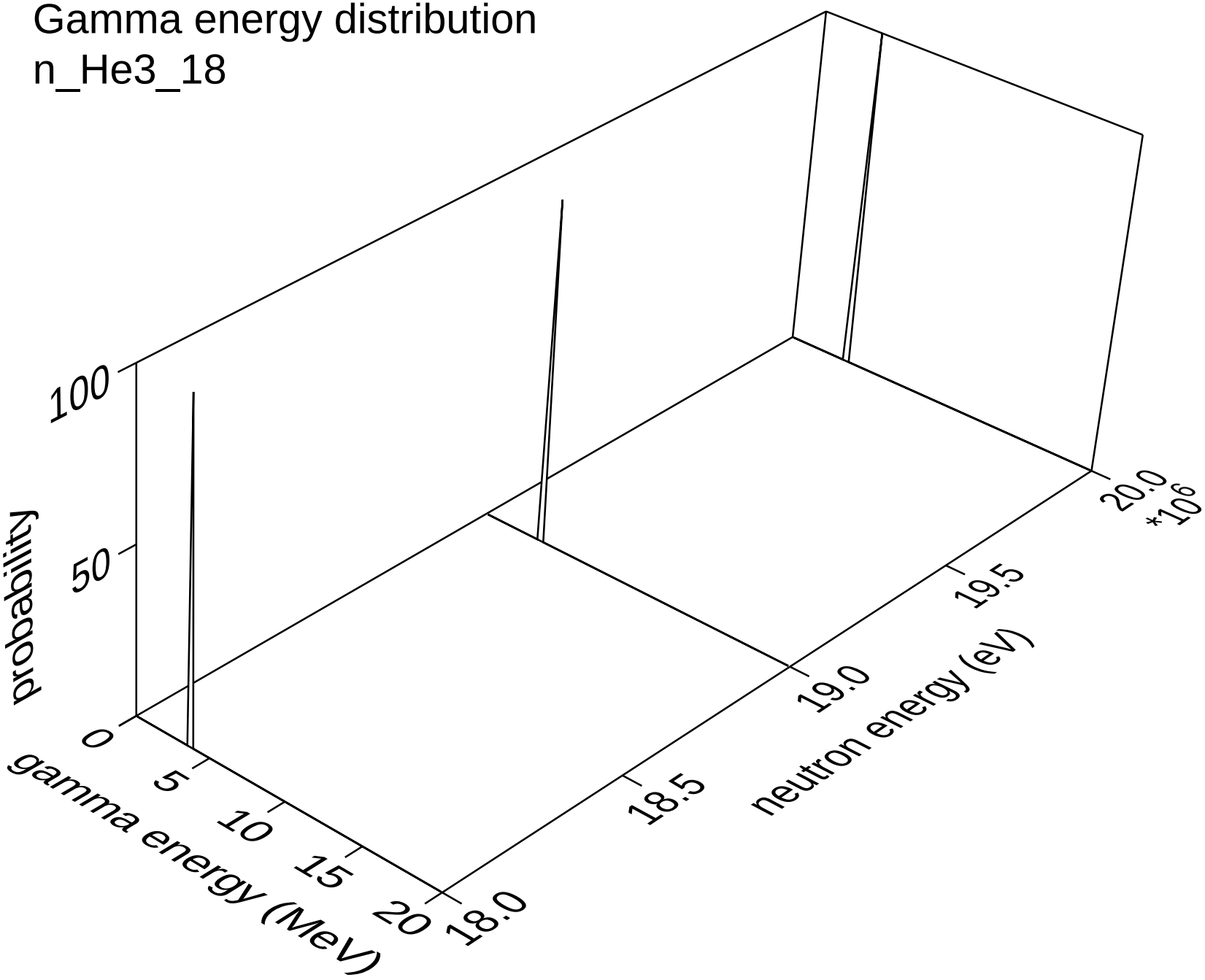


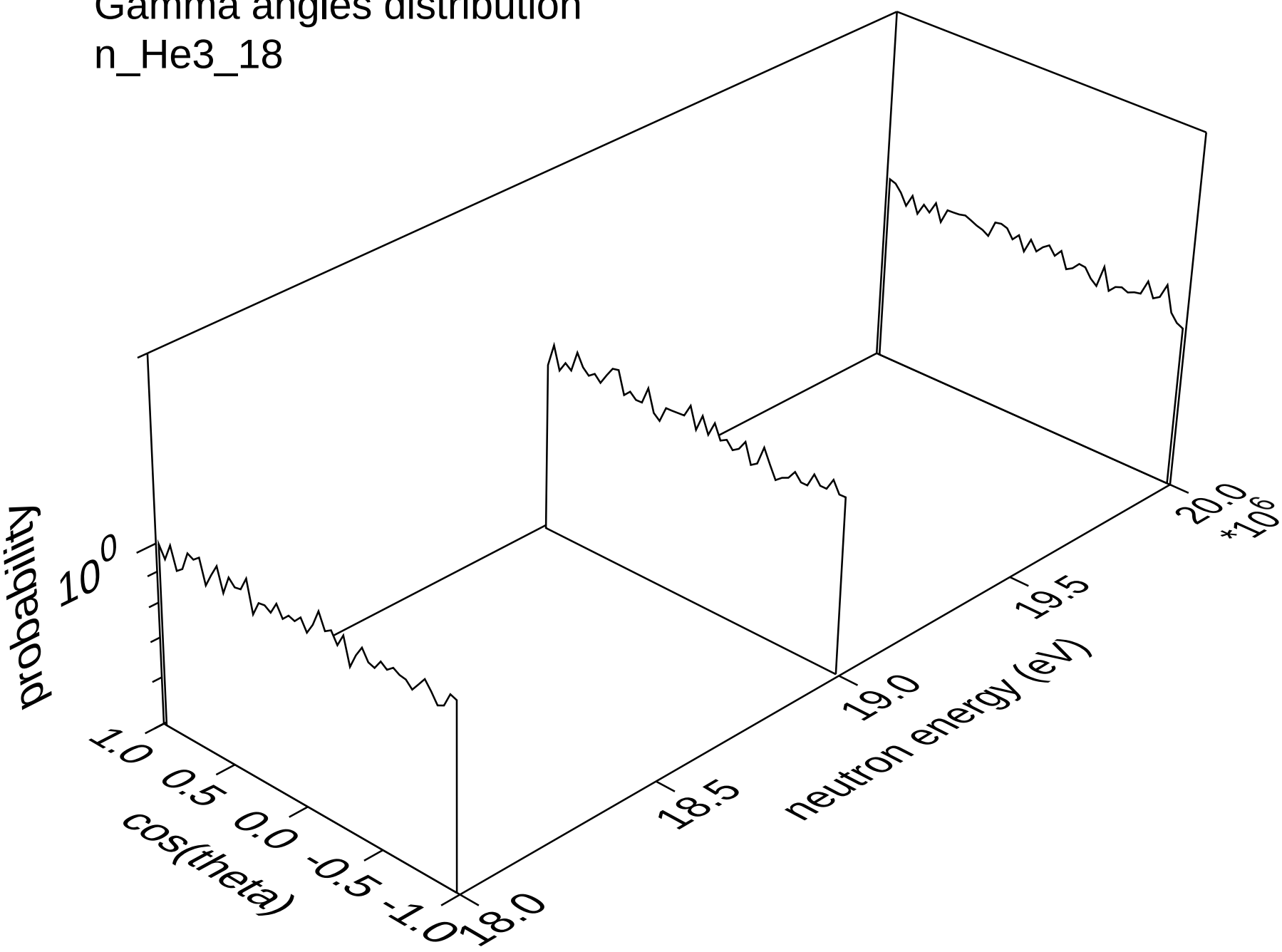

Gamma energy distribution
n_He3_17
probability
100
80
60
40
20
0
gamma energy (MeV)
5
10
15
20
17
18
19
20
*10^6
neutron energy (eV)


Gamma angles distribution
n_He3_17
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)

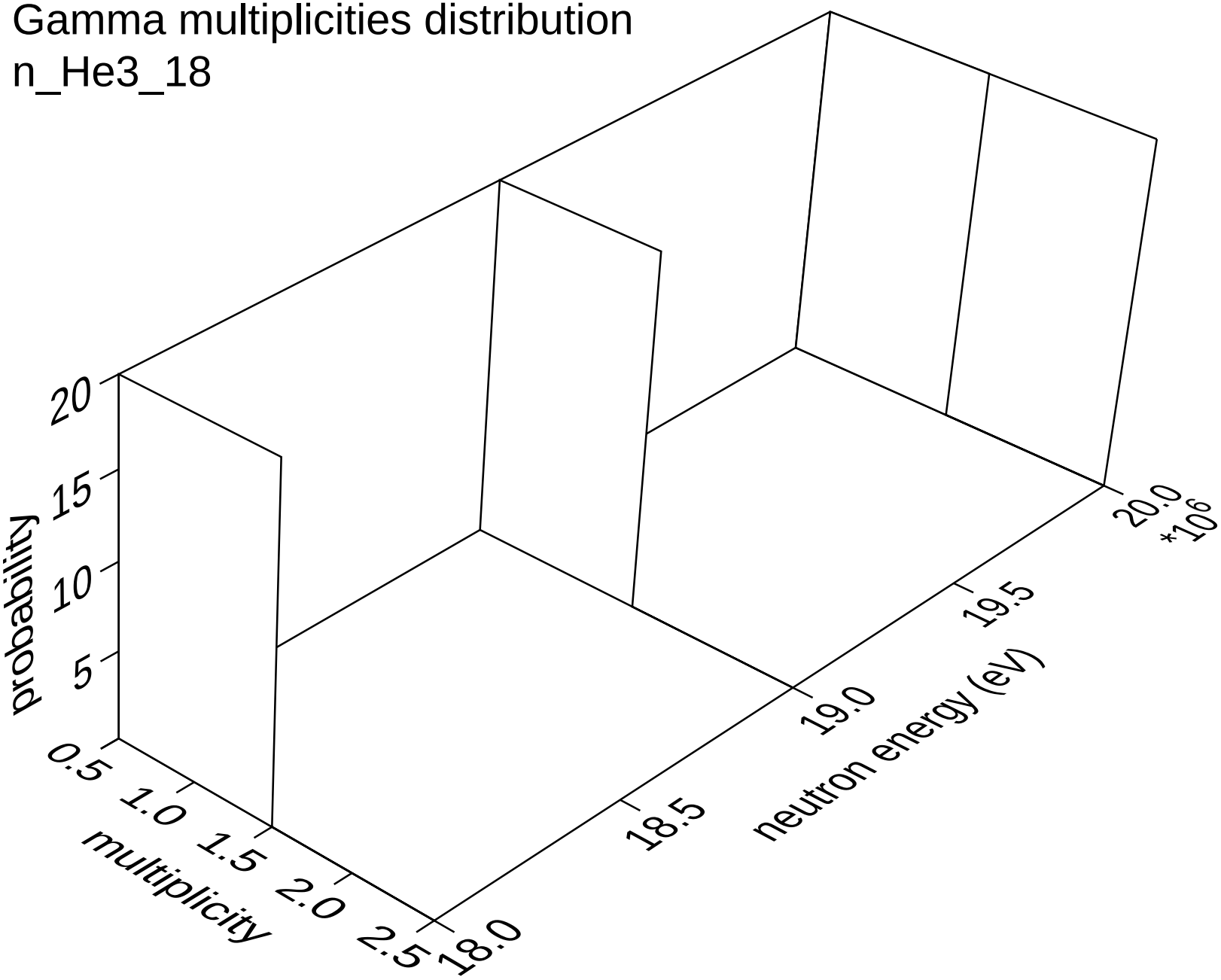
Gamma multiplicities distribution
n_He3_17

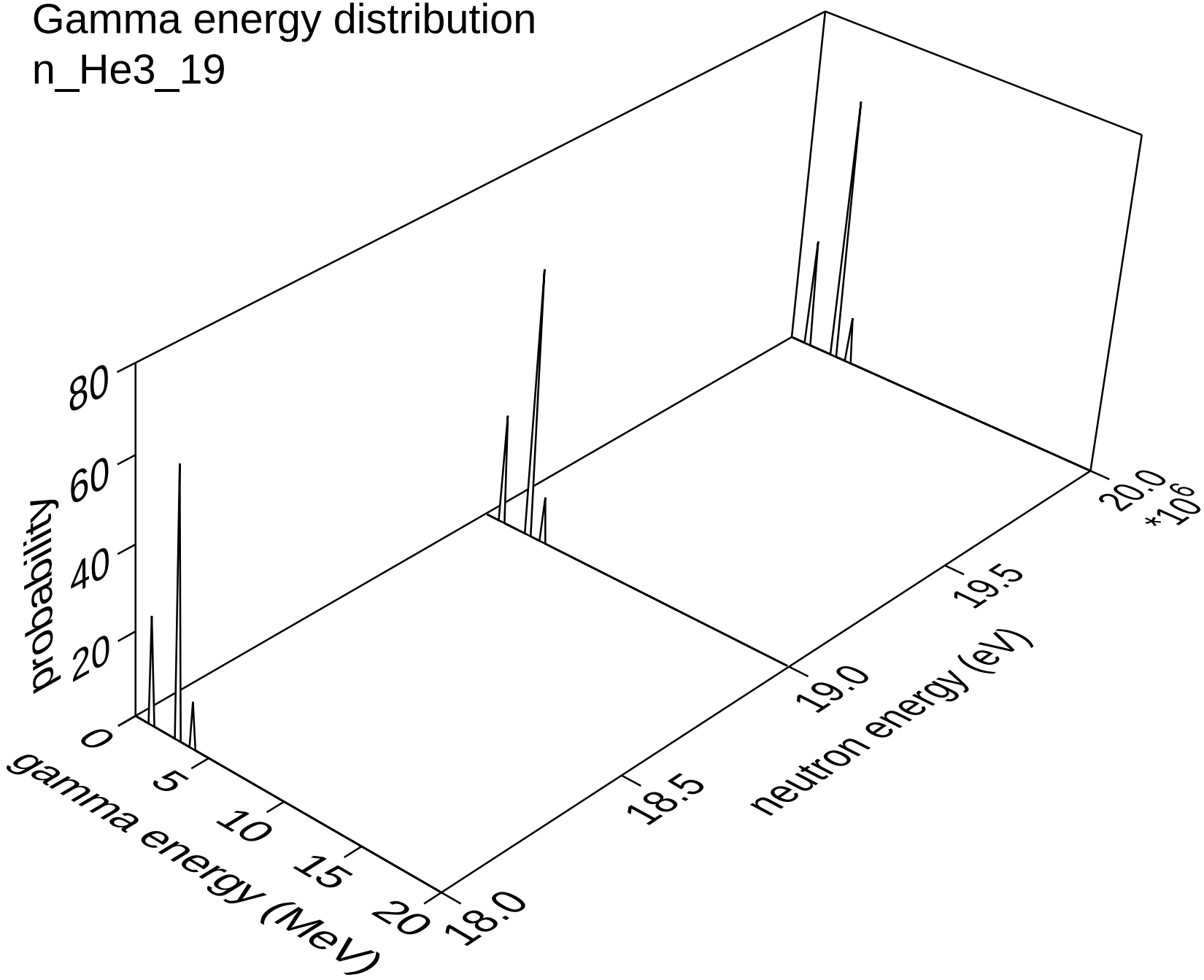


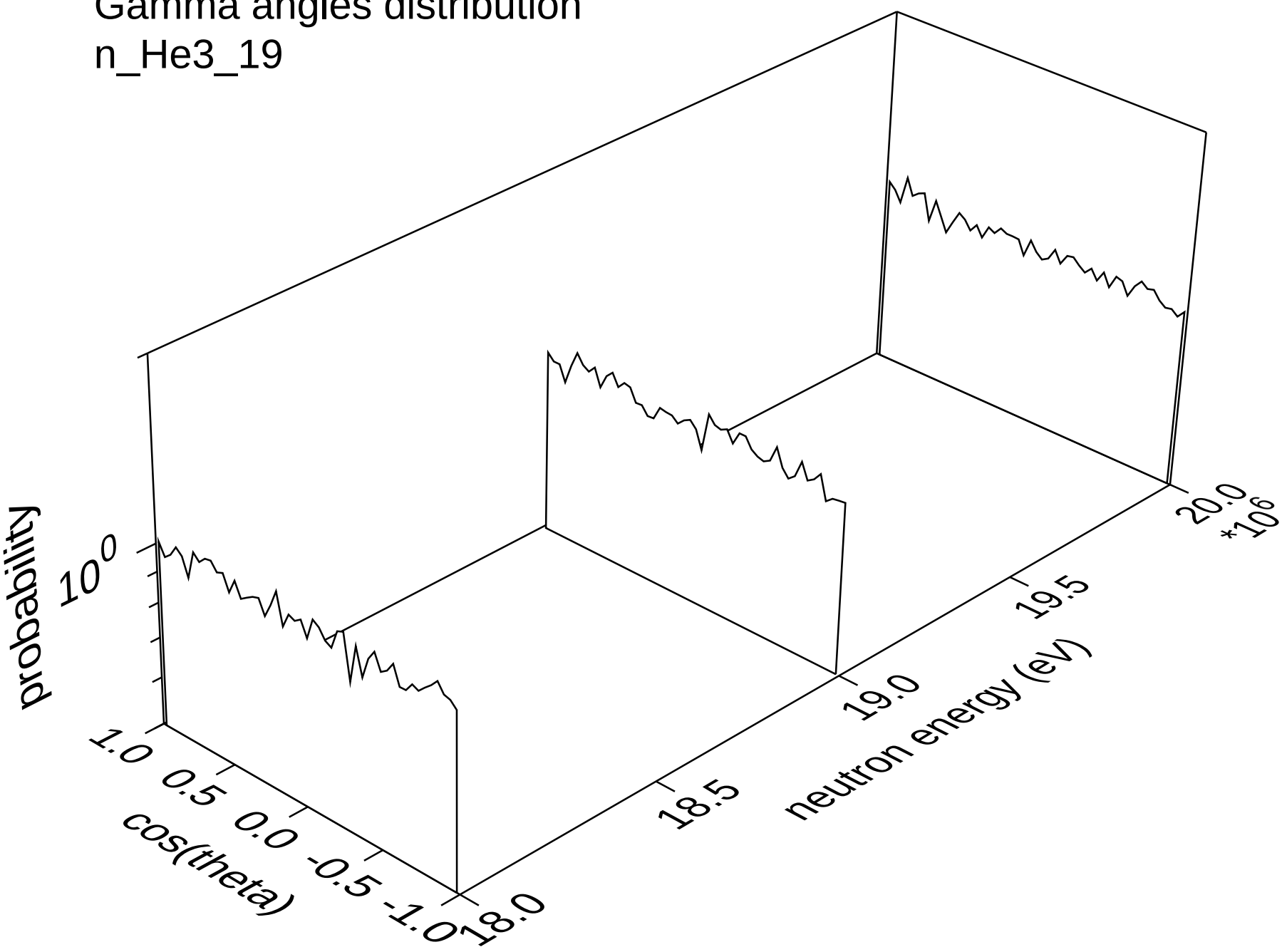

Gamma energy distribution
n_He3_18
probability
100
50
0
gamma energy (MeV)
5
10
15
20
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)


Gamma angles distribution
n_He3_18
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

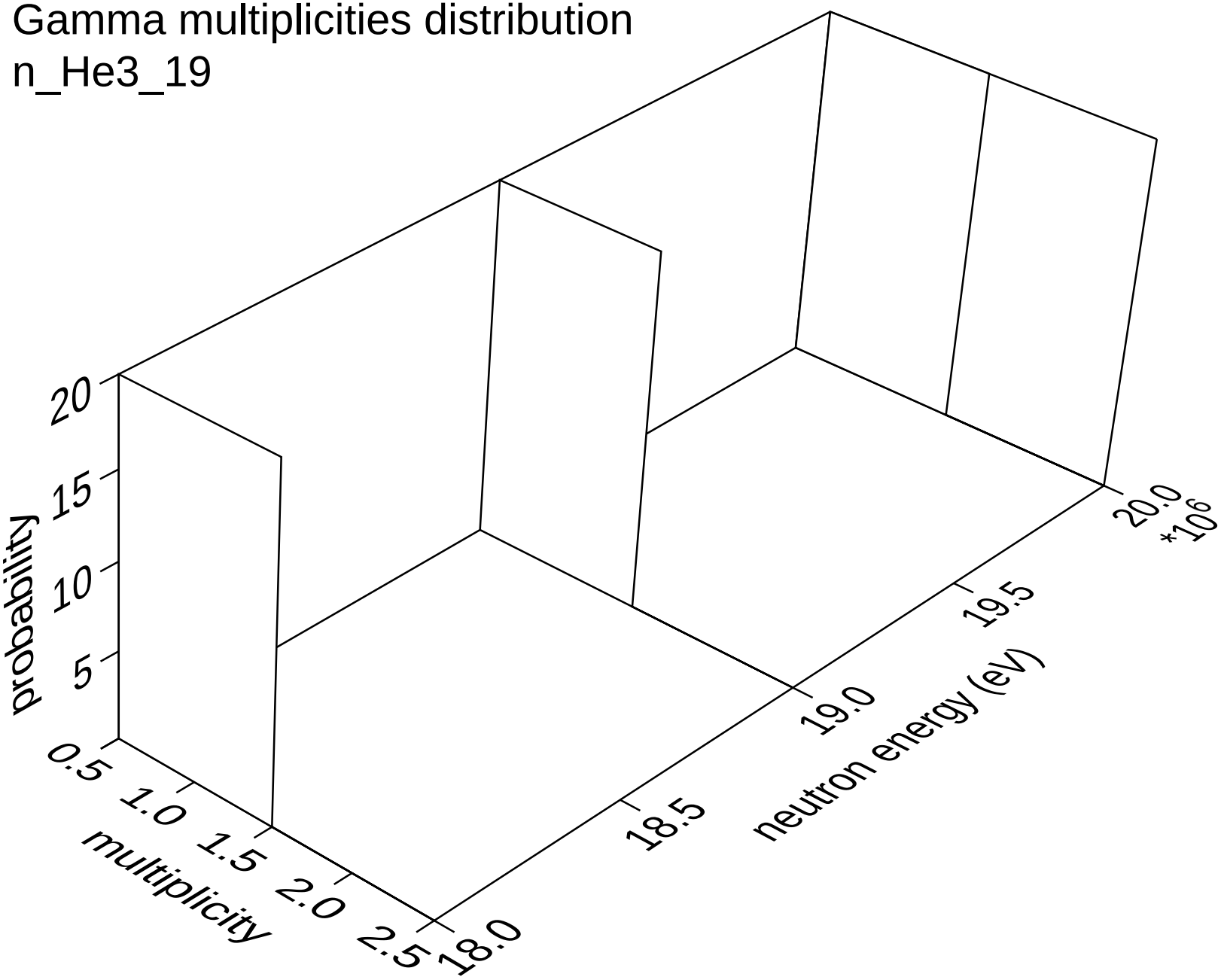
Gamma multiplicities distribution
n_He3_18

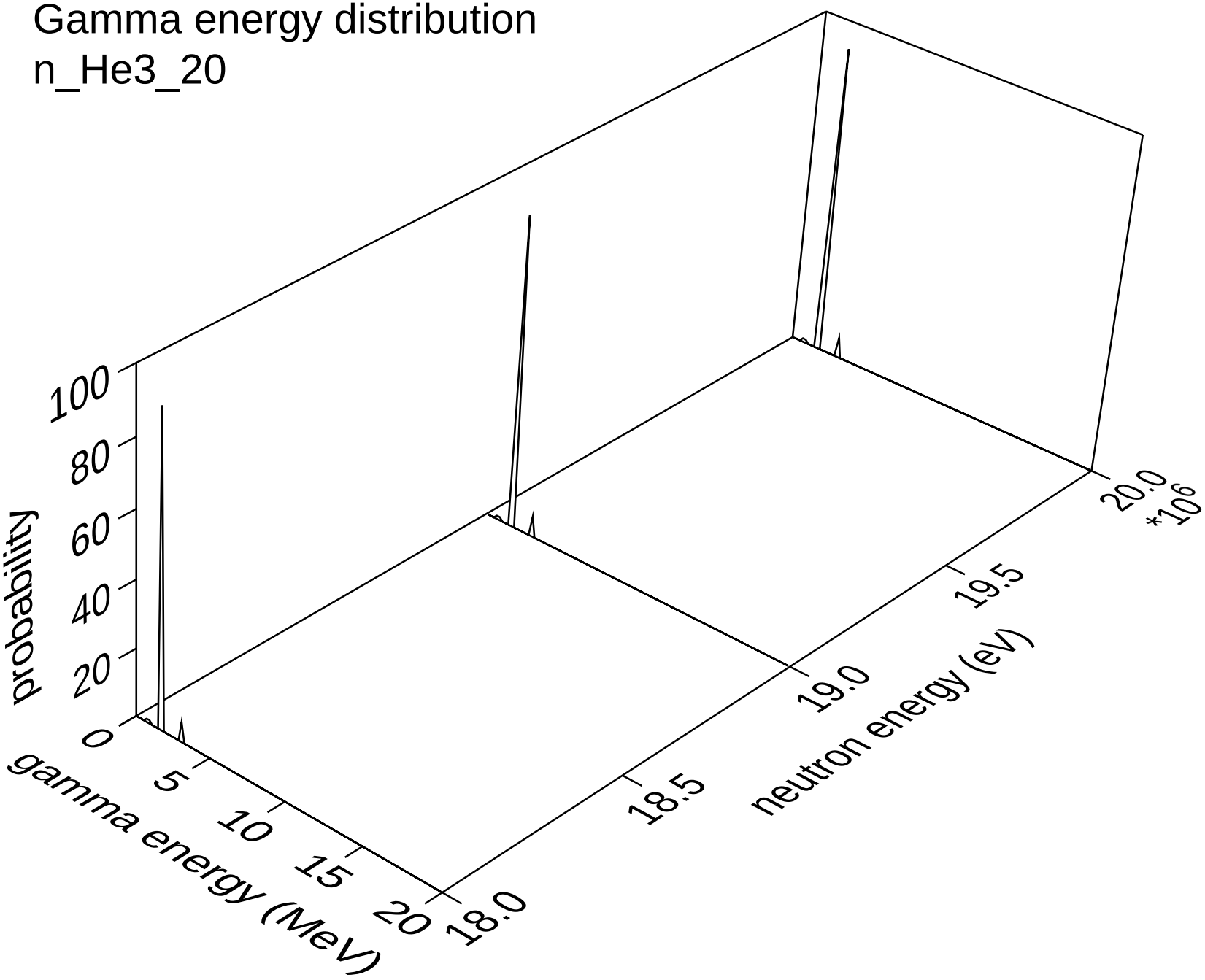


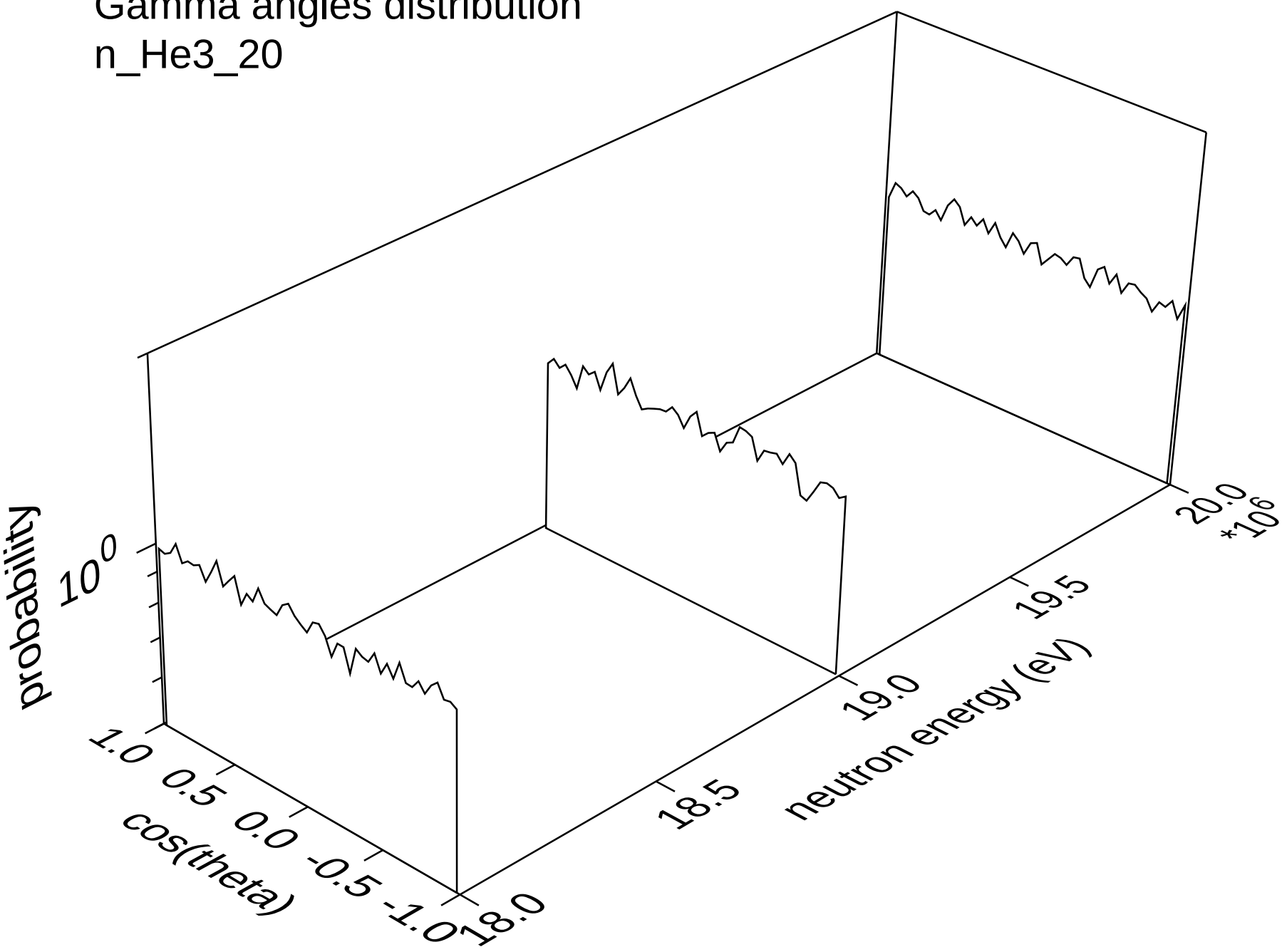

Gamma energy distribution
n_He3_19
probability
0
20
40
60
80
gamma energy (MeV)
5
10
15
20
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

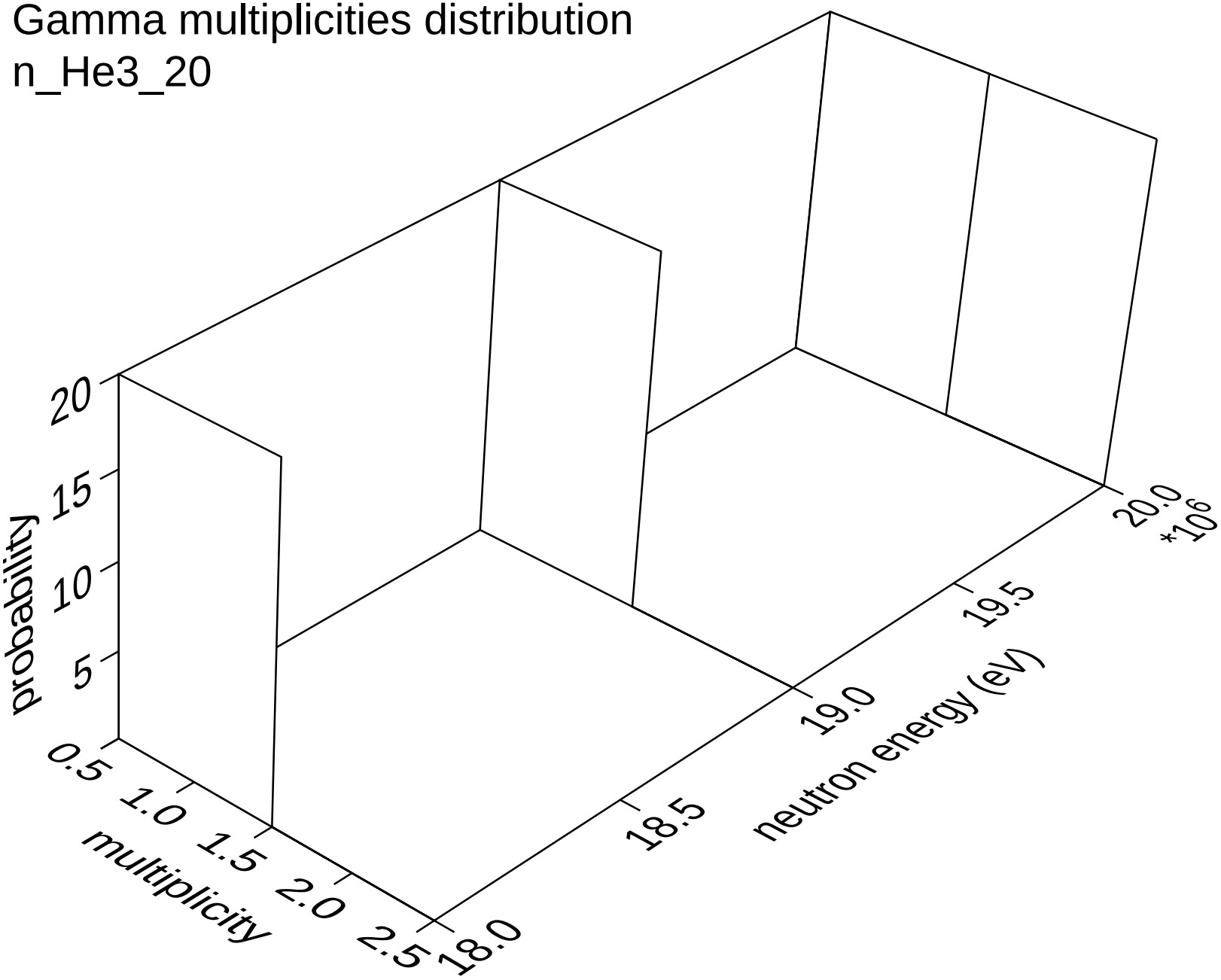

Gamma angles distribution
n_He3_19
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

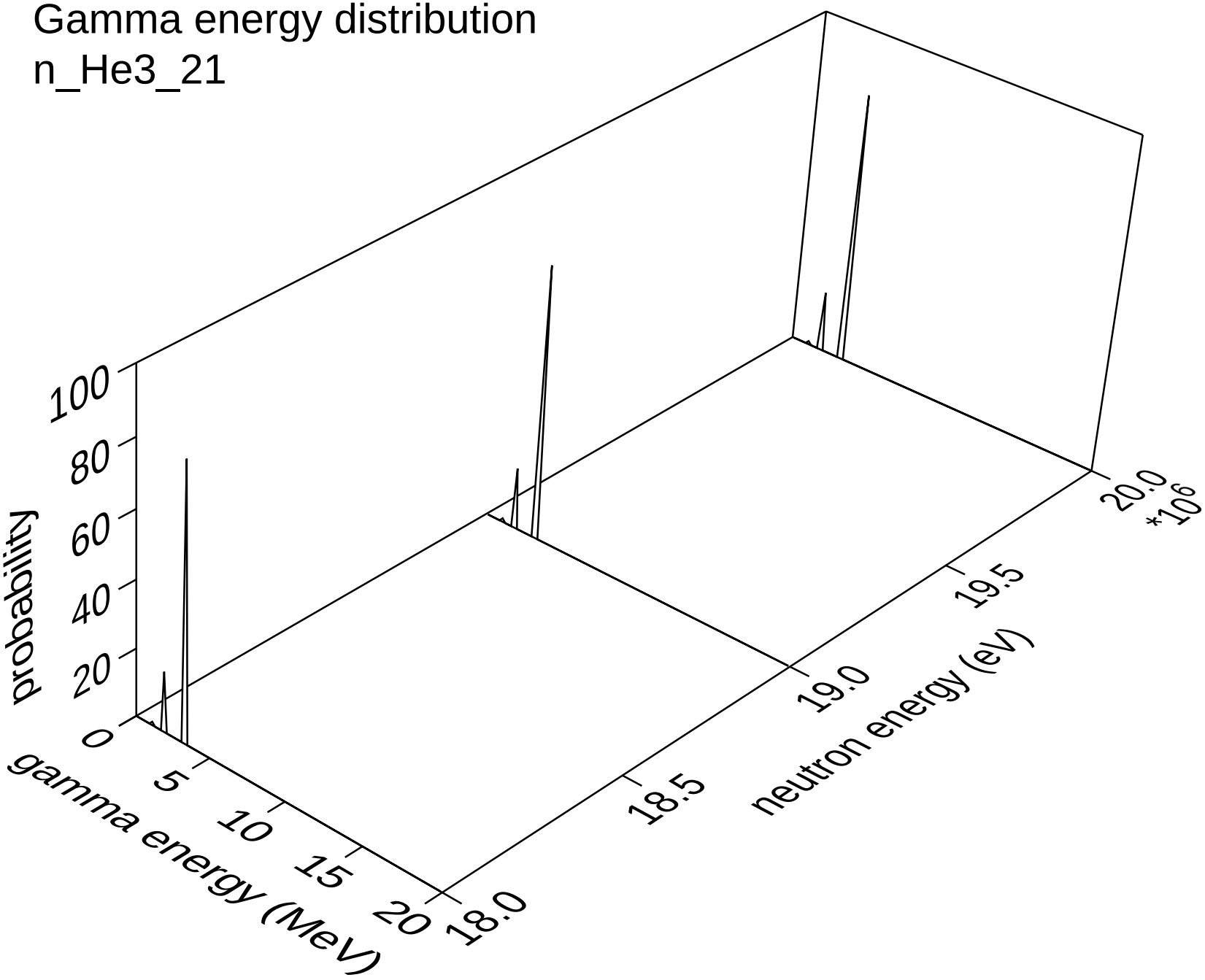
Gamma multiplicities distribution
n_He3_19

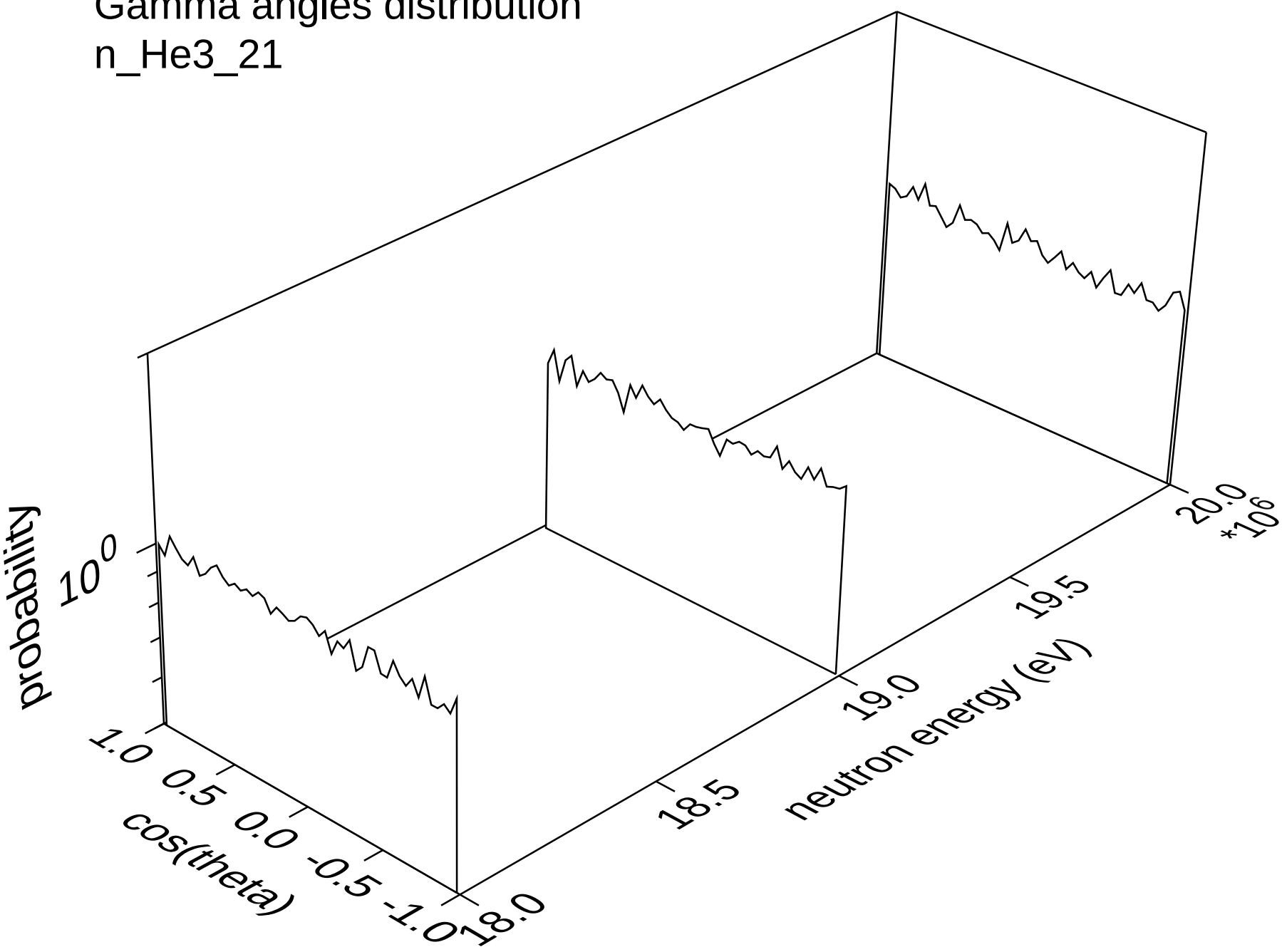



Gamma energy distribution
n_He3_20
probability
100
80
60
40
20
0
gamma energy (MeV)
5
10
15
20
neutron energy (eV)
18.0
18.5
19.0
19.5
20.0
*10^6

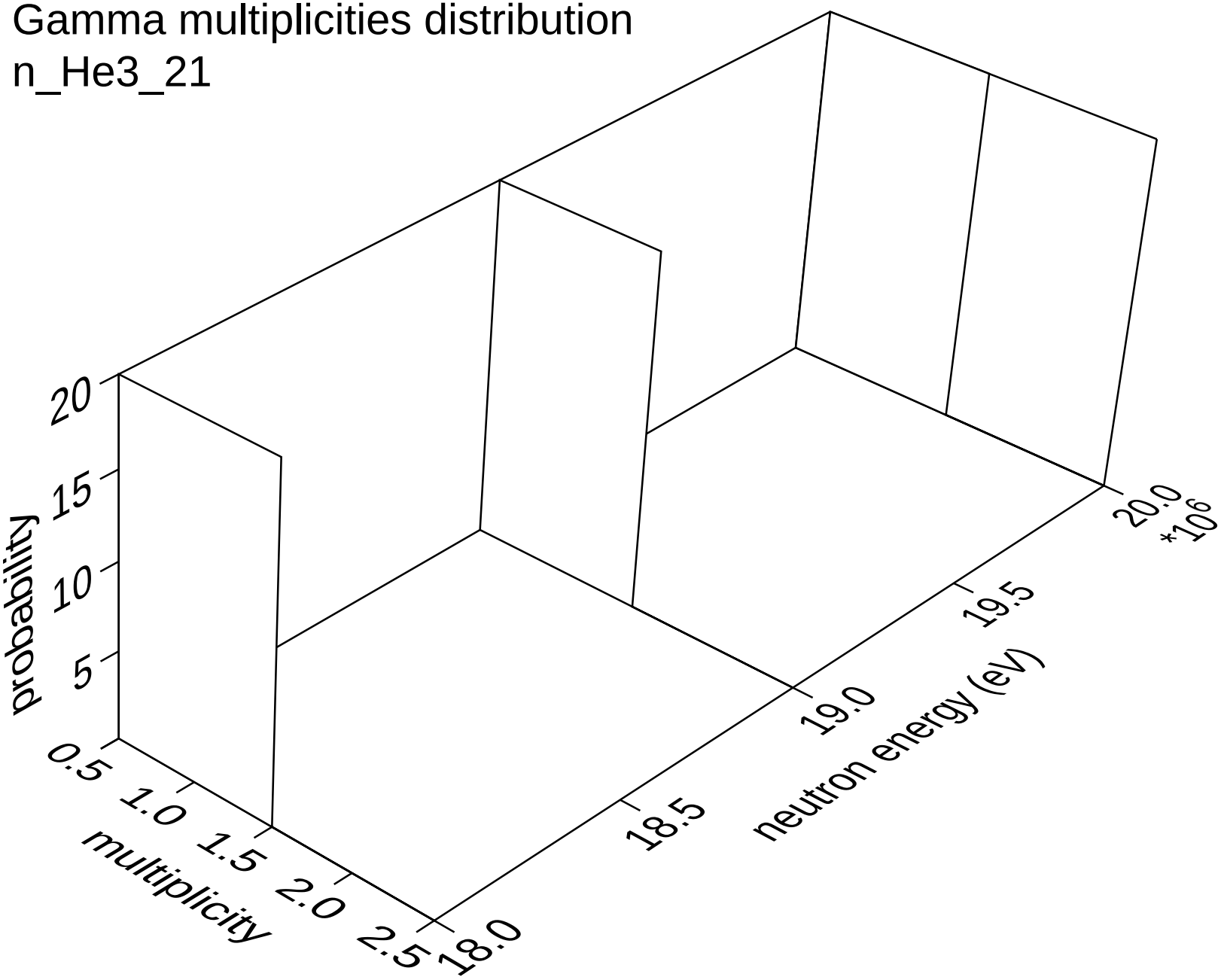

Gamma angles distribution
n_He3_20
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

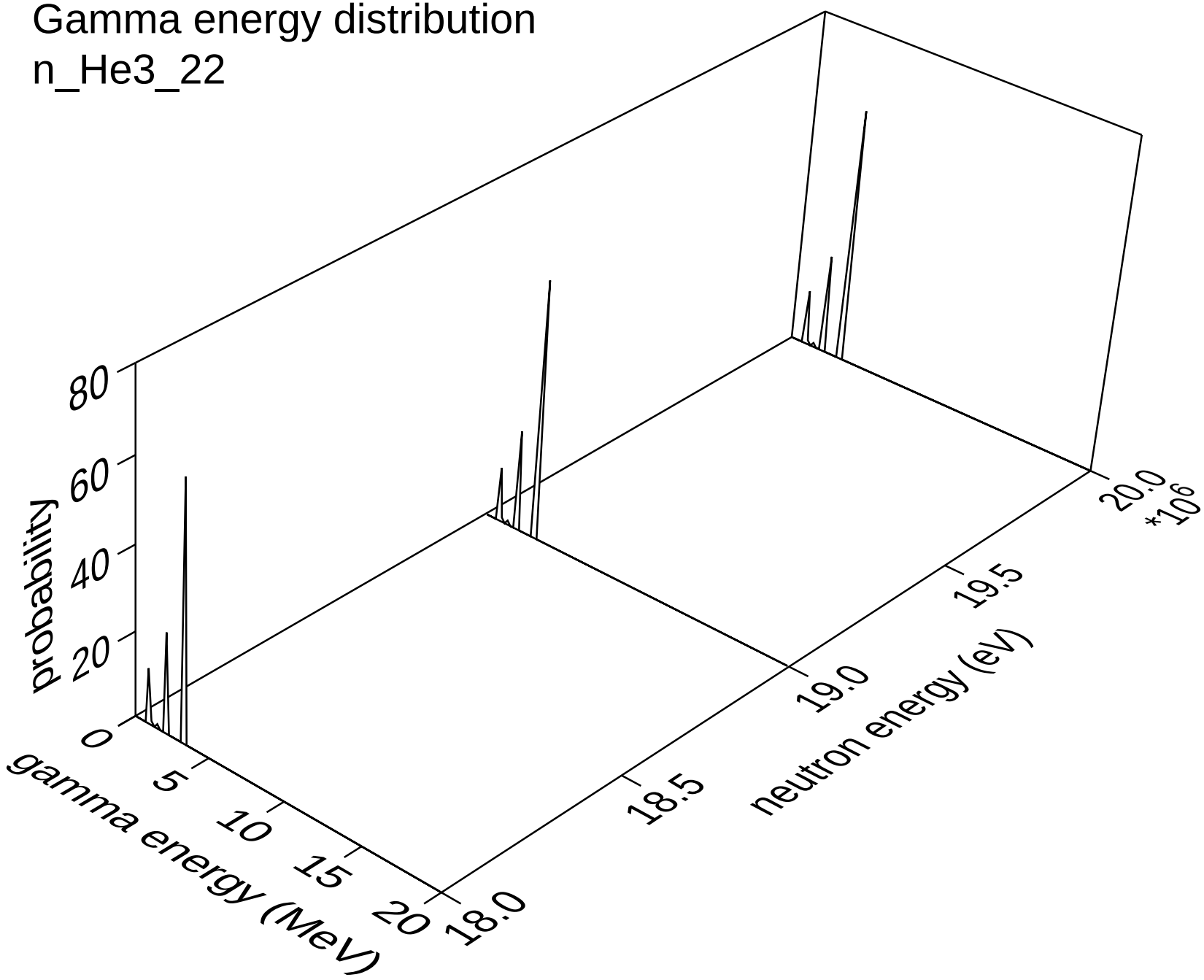

Gamma multiplicities distribution
n_He3_20
probability
20
15
10
5
0.5
1.0
1.5
2.0
2.5
multiplicity
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

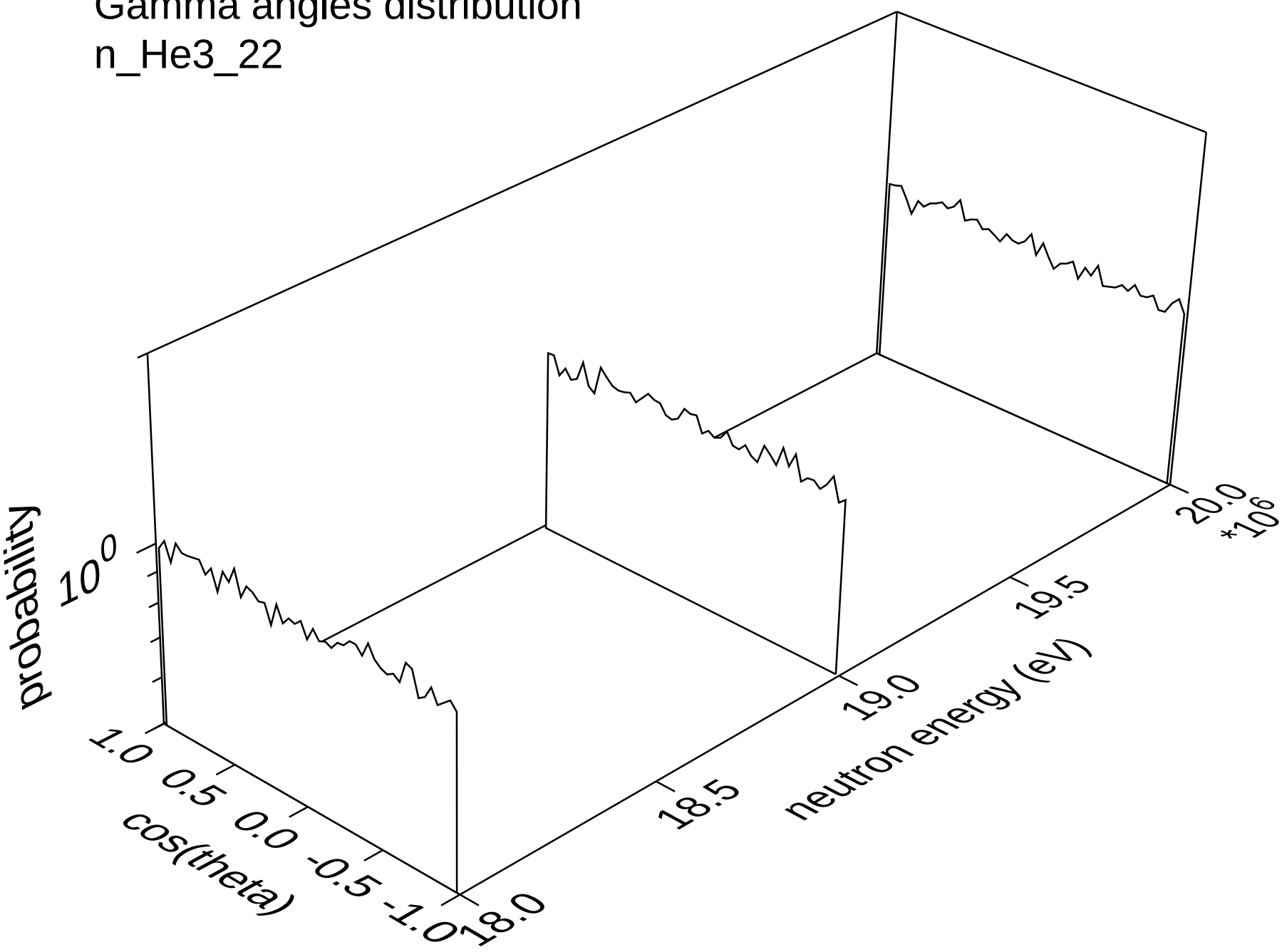

Gamma energy distribution
n_He3_21
probability
100
80
60
40
20
0
gamma energy (MeV)
5
10
15
20
neutron energy (eV)
18.0
18.5
19.0
19.5
20.0
*10^6

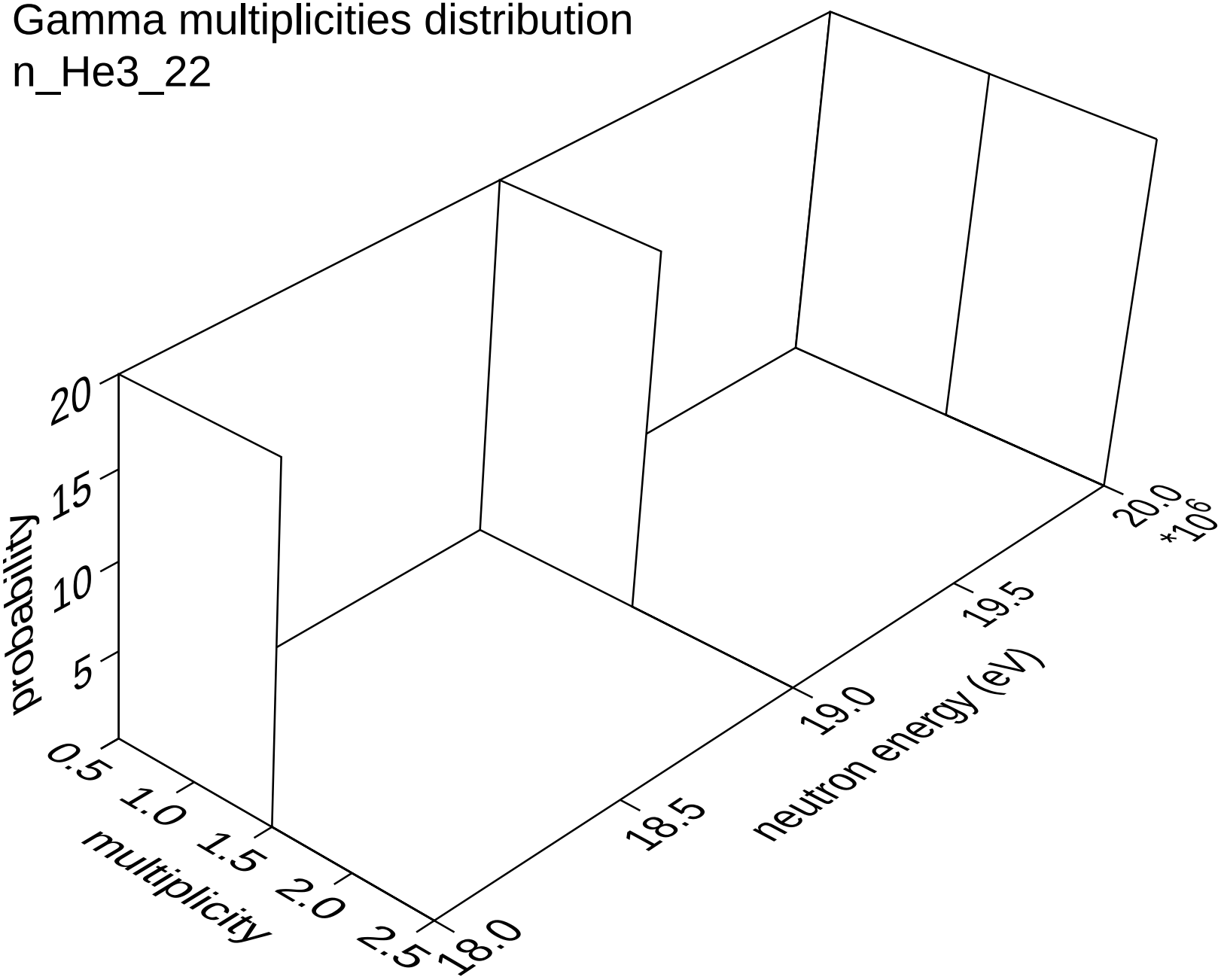

Gamma angles distribution
n_He3_21
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

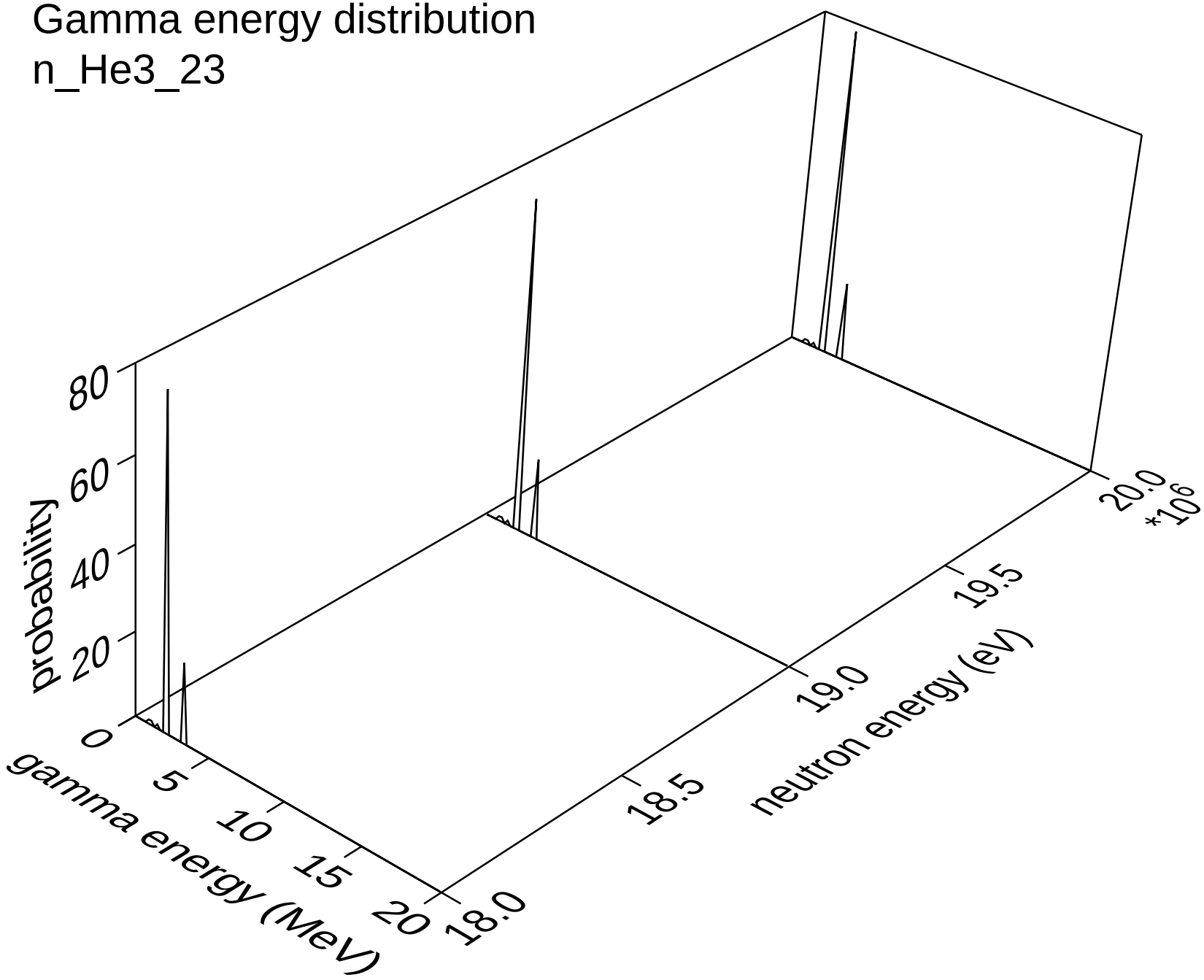
Gamma multiplicities distribution
n_He3_21

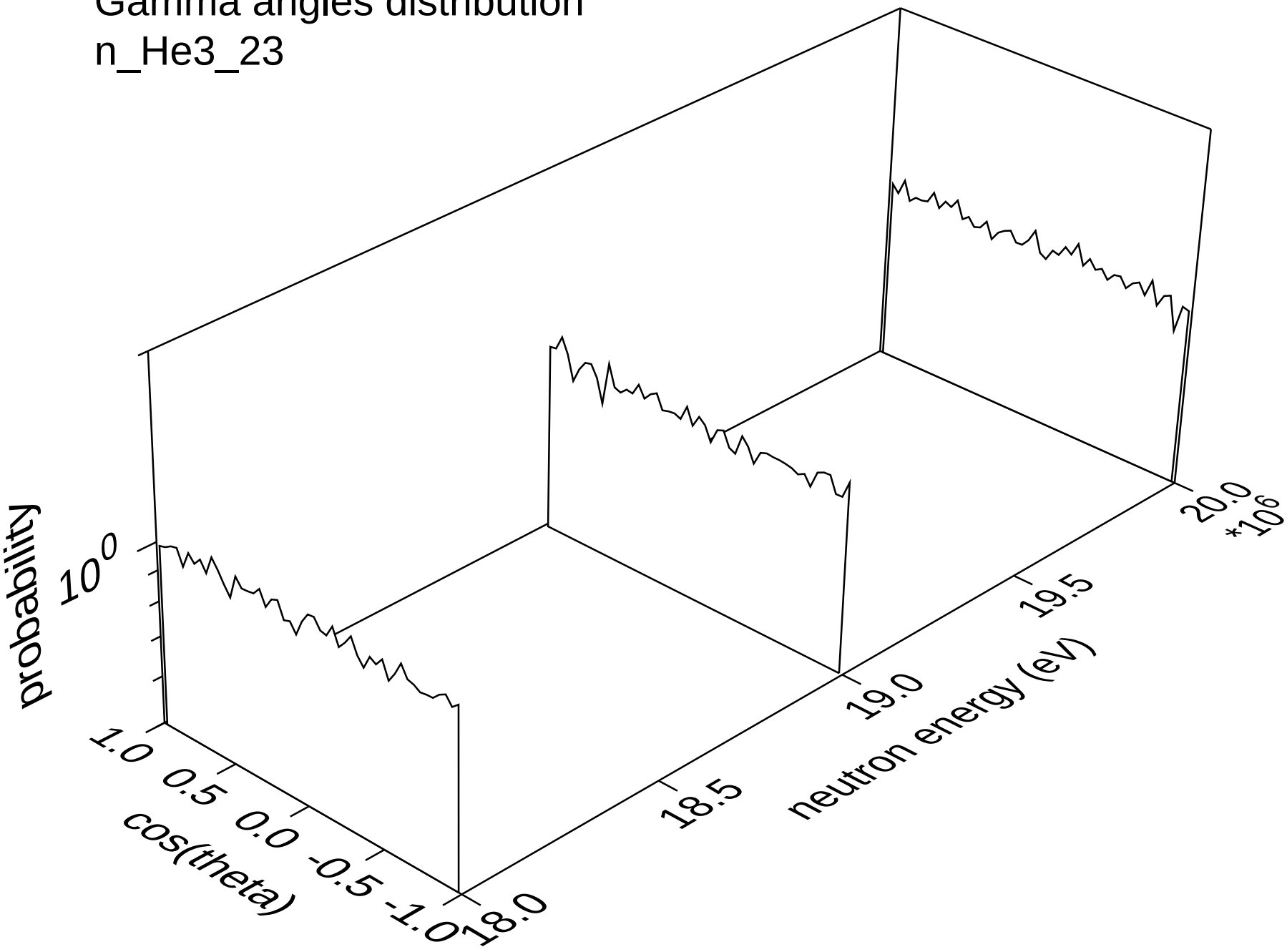



Gamma energy distribution
n_He3_22
probability
0
20
40
60
80
gamma energy (MeV)
5
10
15
20
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

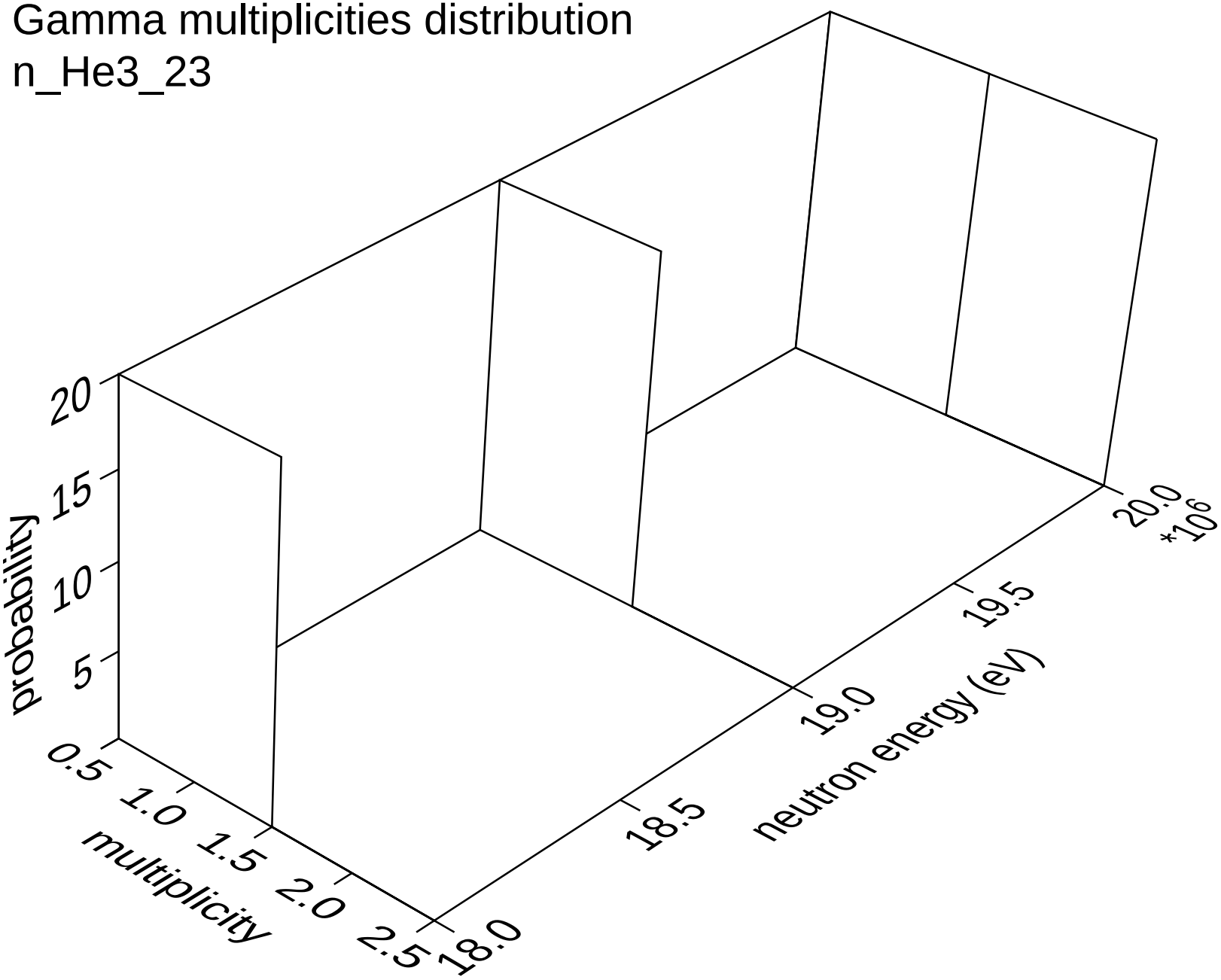

Gamma angles distribution
n_He3_22
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

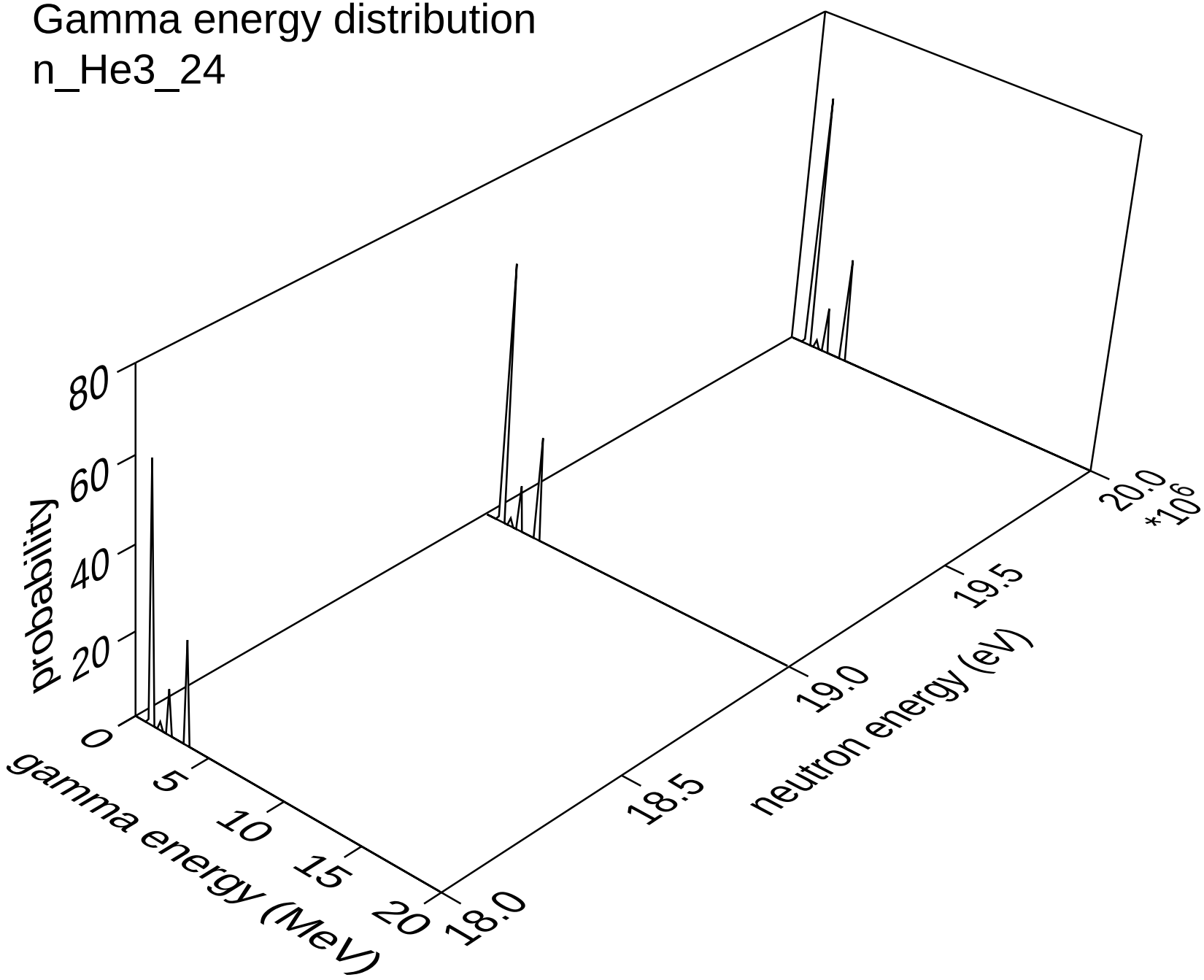

Gamma multiplicities distribution
n_He3_22
probability
20
15
10
5
0.5
1.0
1.5
2.0
2.5
multiplicity
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

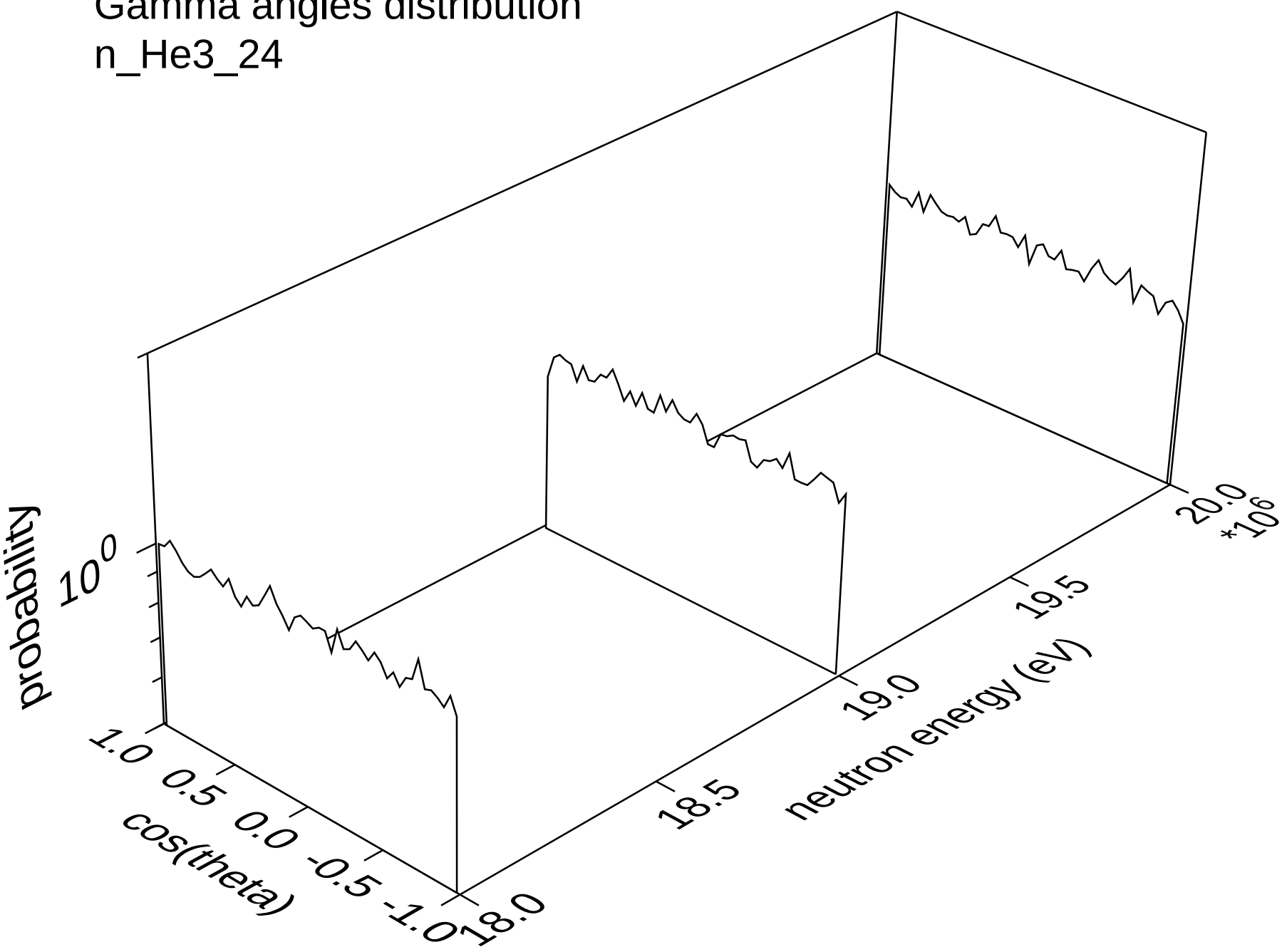

Gamma energy distribution
n_He3_23
probability
0
20
40
60
80
gamma energy (MeV)
5
10
15
20
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

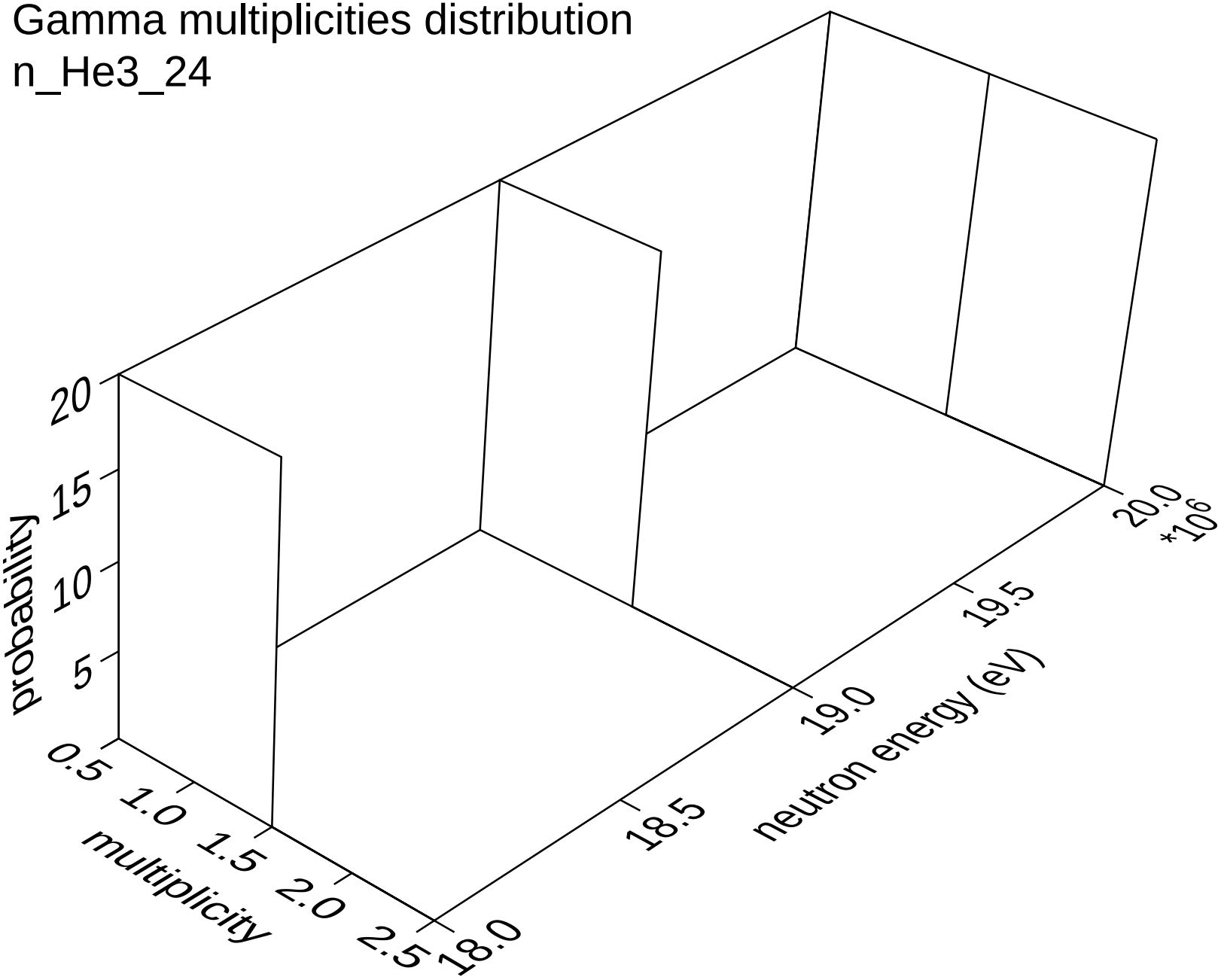

Gamma angles distribution
n_He3_23
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

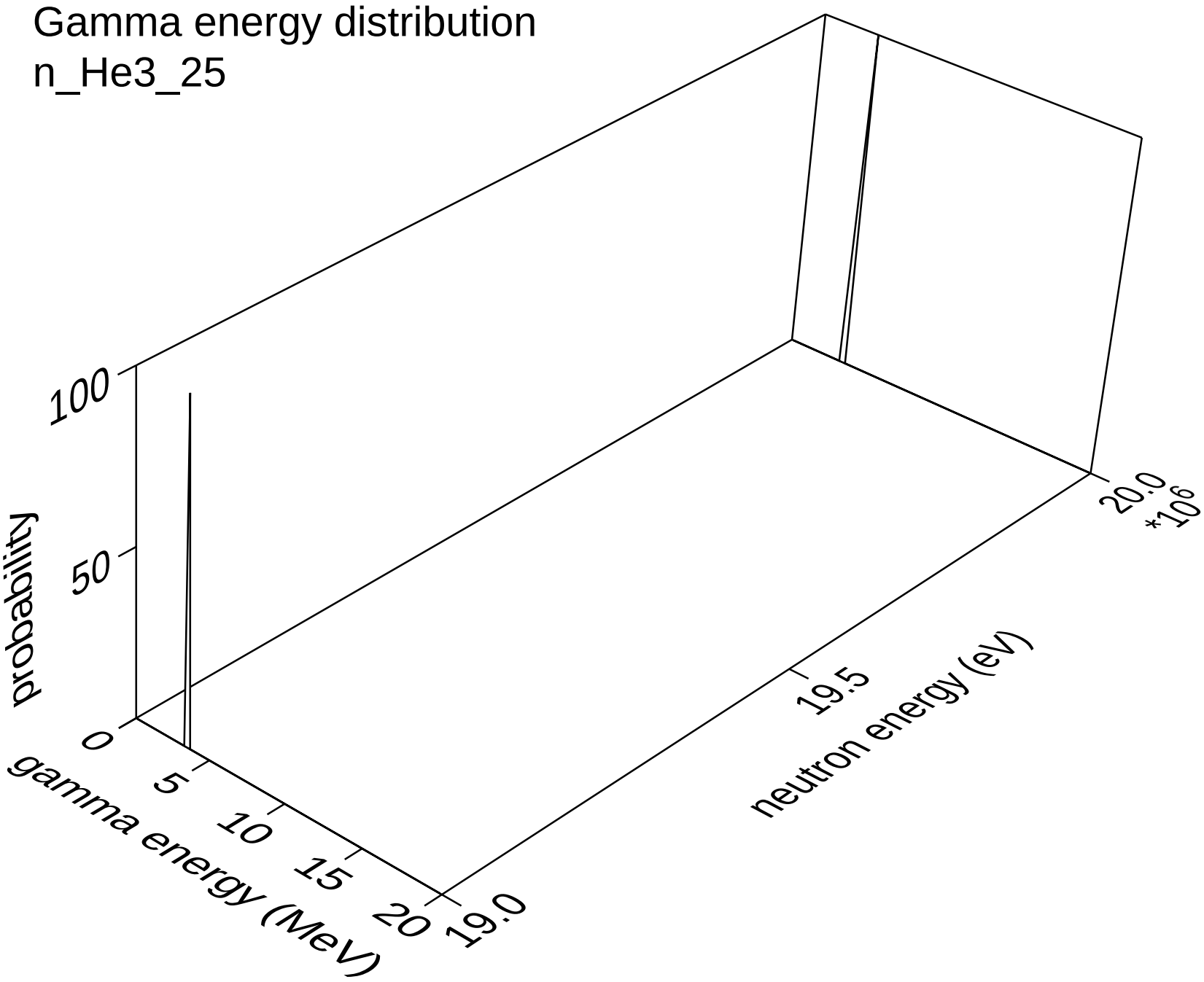
Gamma multiplicities distribution
n_He3_23

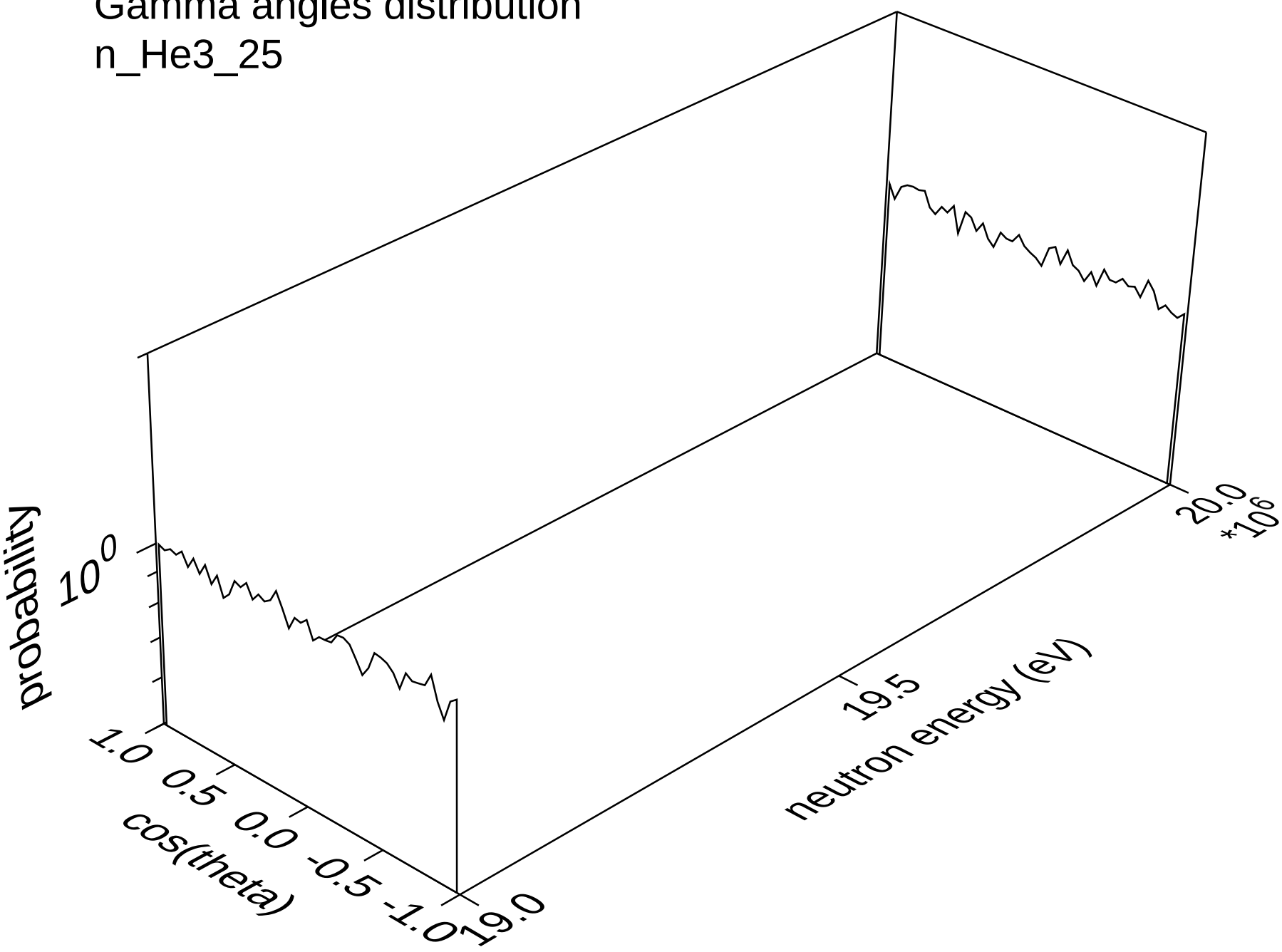



Gamma energy distribution
n_He3_24
probability
0
20
40
60
80
gamma energy (MeV)
5
10
15
20
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

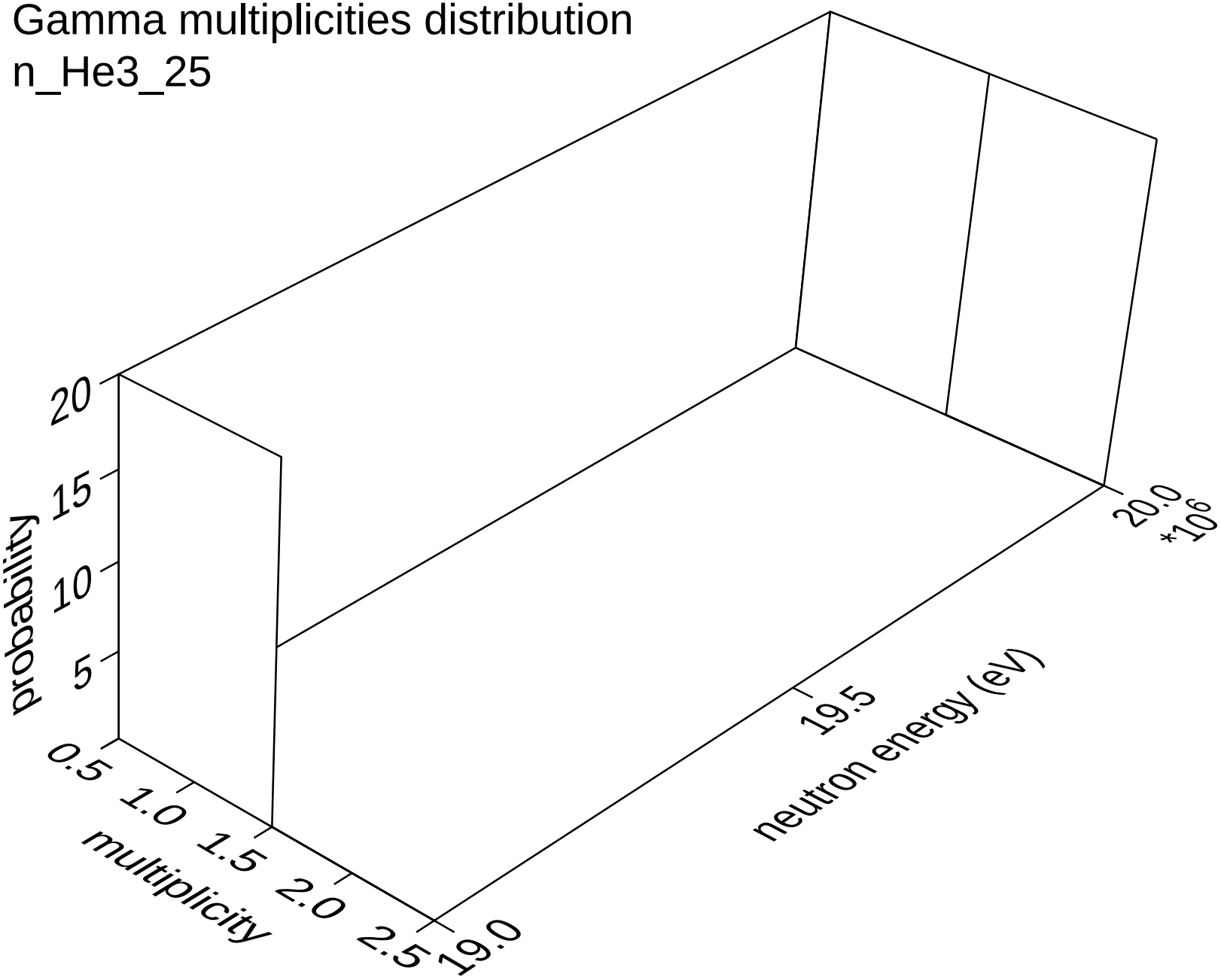

Gamma angles distribution
n_He3_24
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

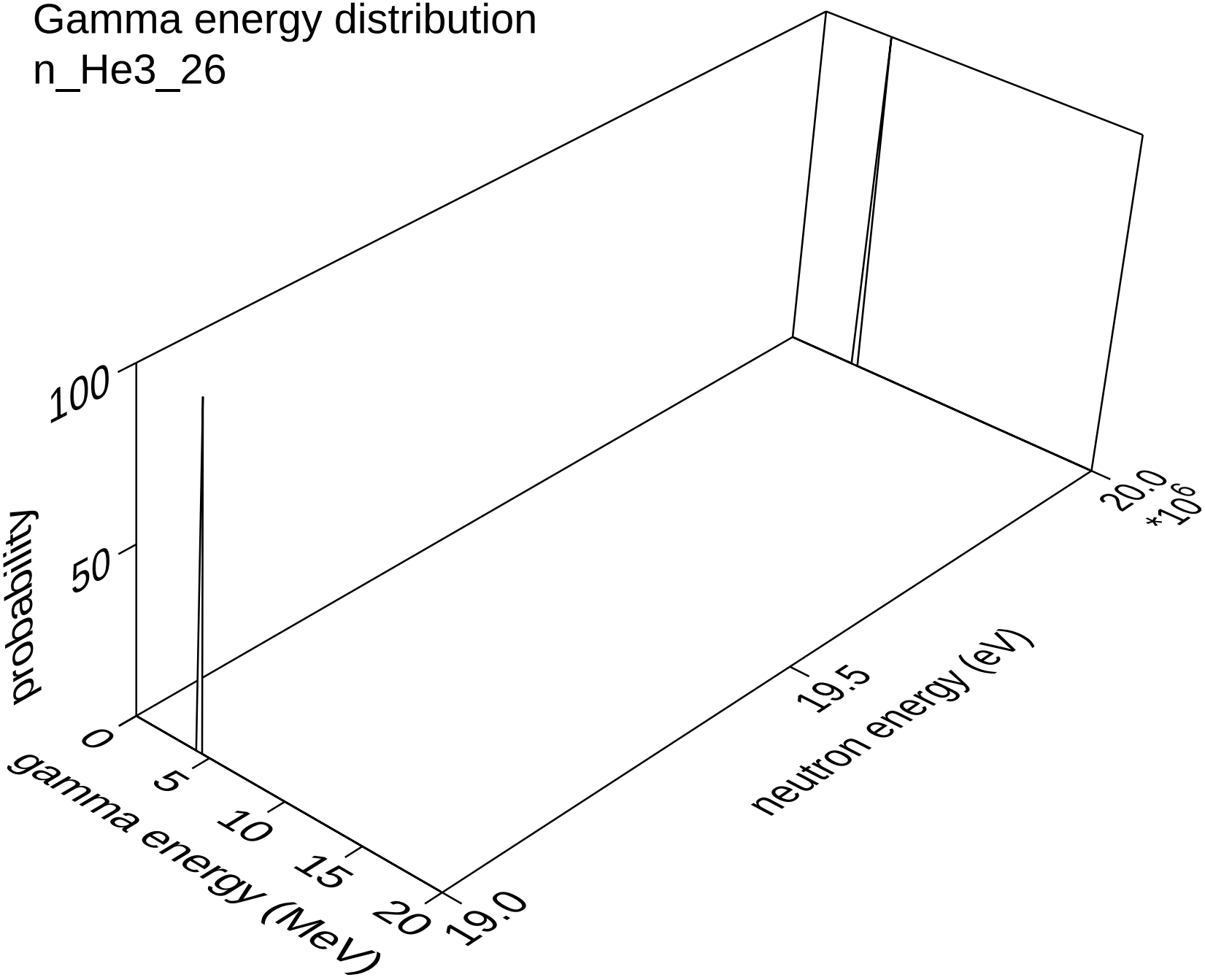

Gamma multiplicities distribution
n_He3_24
probability
20
15
10
5
0.5
1.0
1.5
2.0
2.5
multiplicity
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

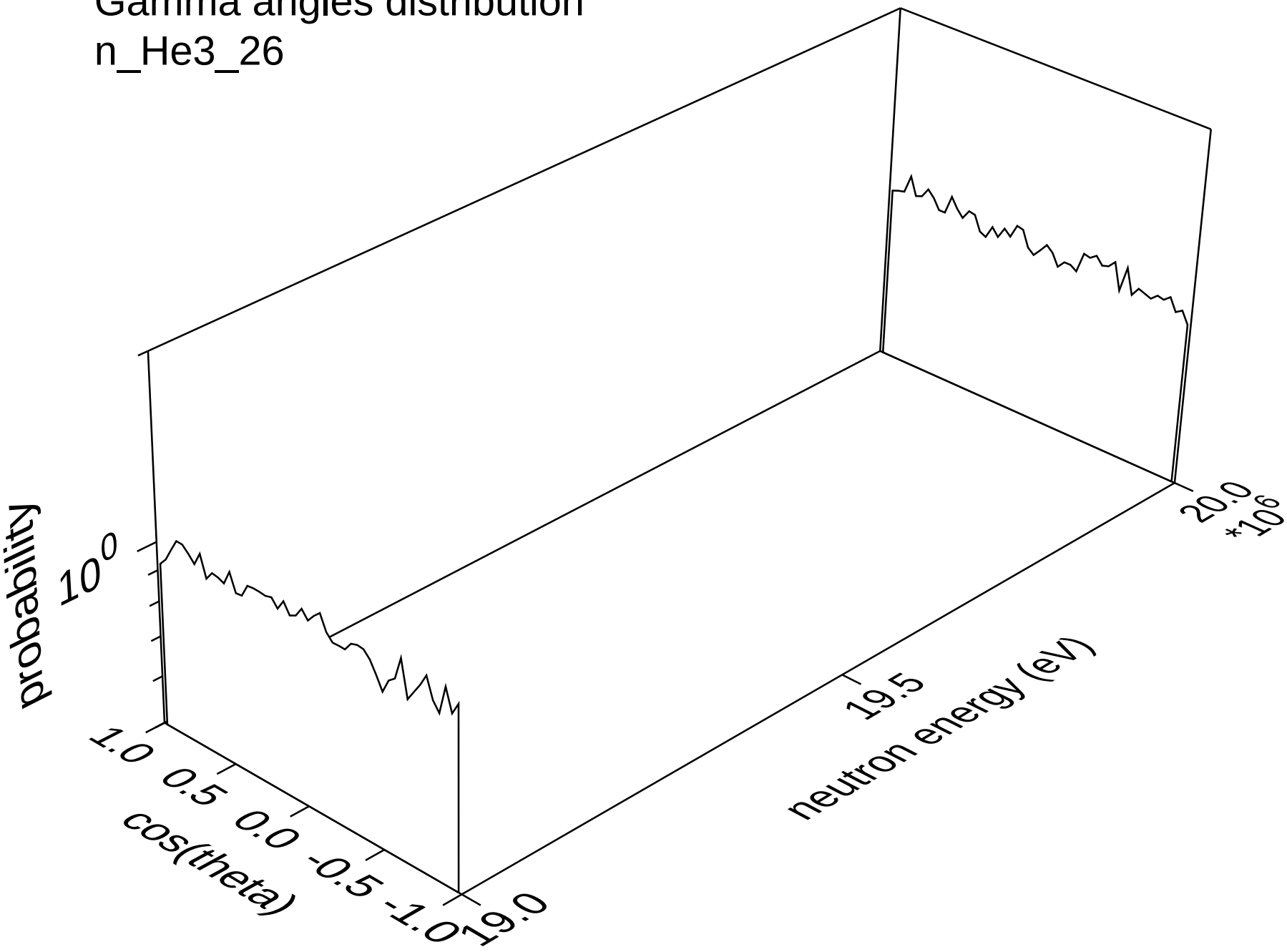

Gamma energy distribution
n_He3_25
probability
100
50
0
gamma energy (MeV)
5
10
15
20
neutron energy (eV)
19.0
19.5
20.0
*10^6


Gamma angles distribution
n_He3_25
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
19.0
19.5
20.0
*10^6
neutron energy (eV)

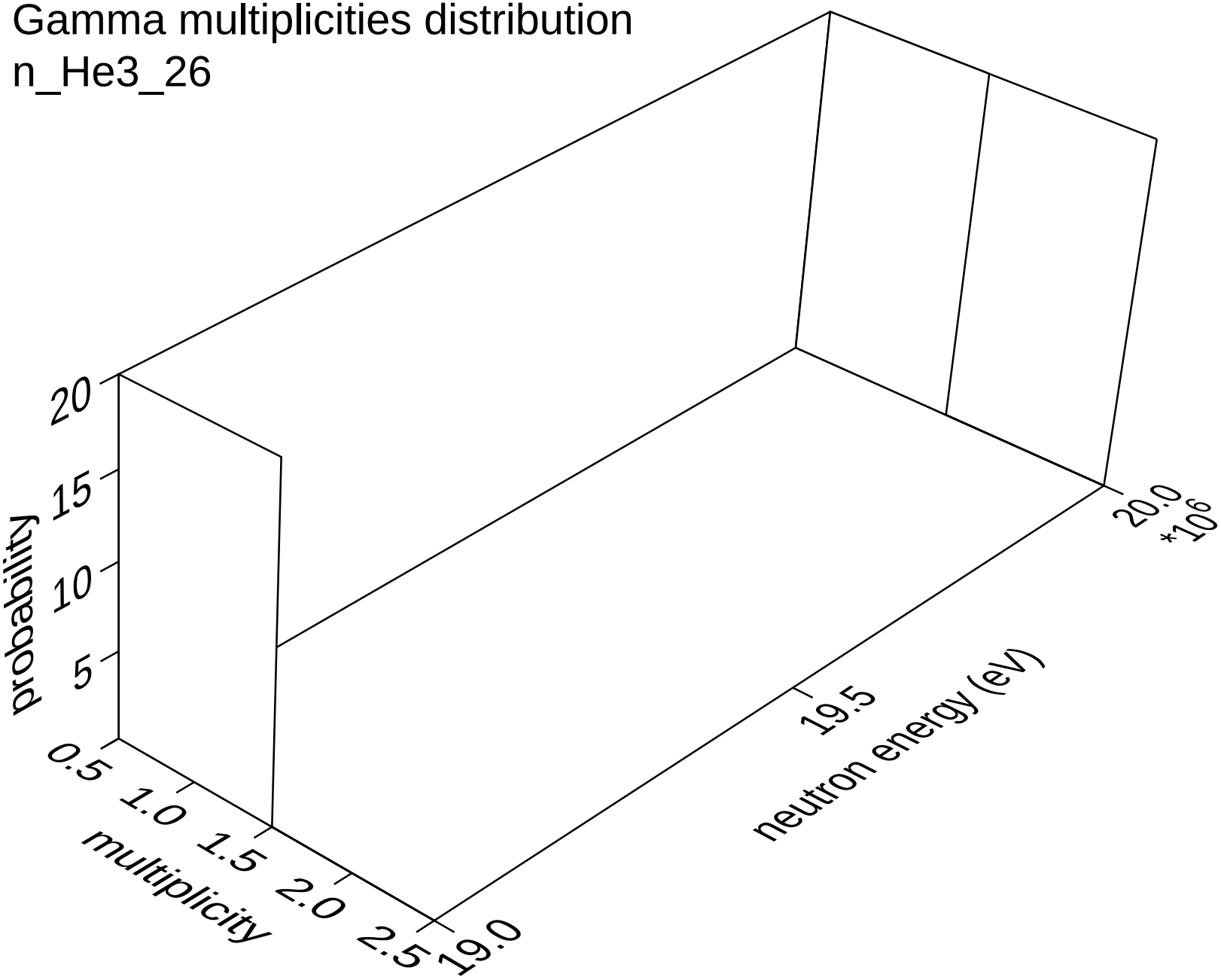
Gamma multiplicities distribution
n_He3_25

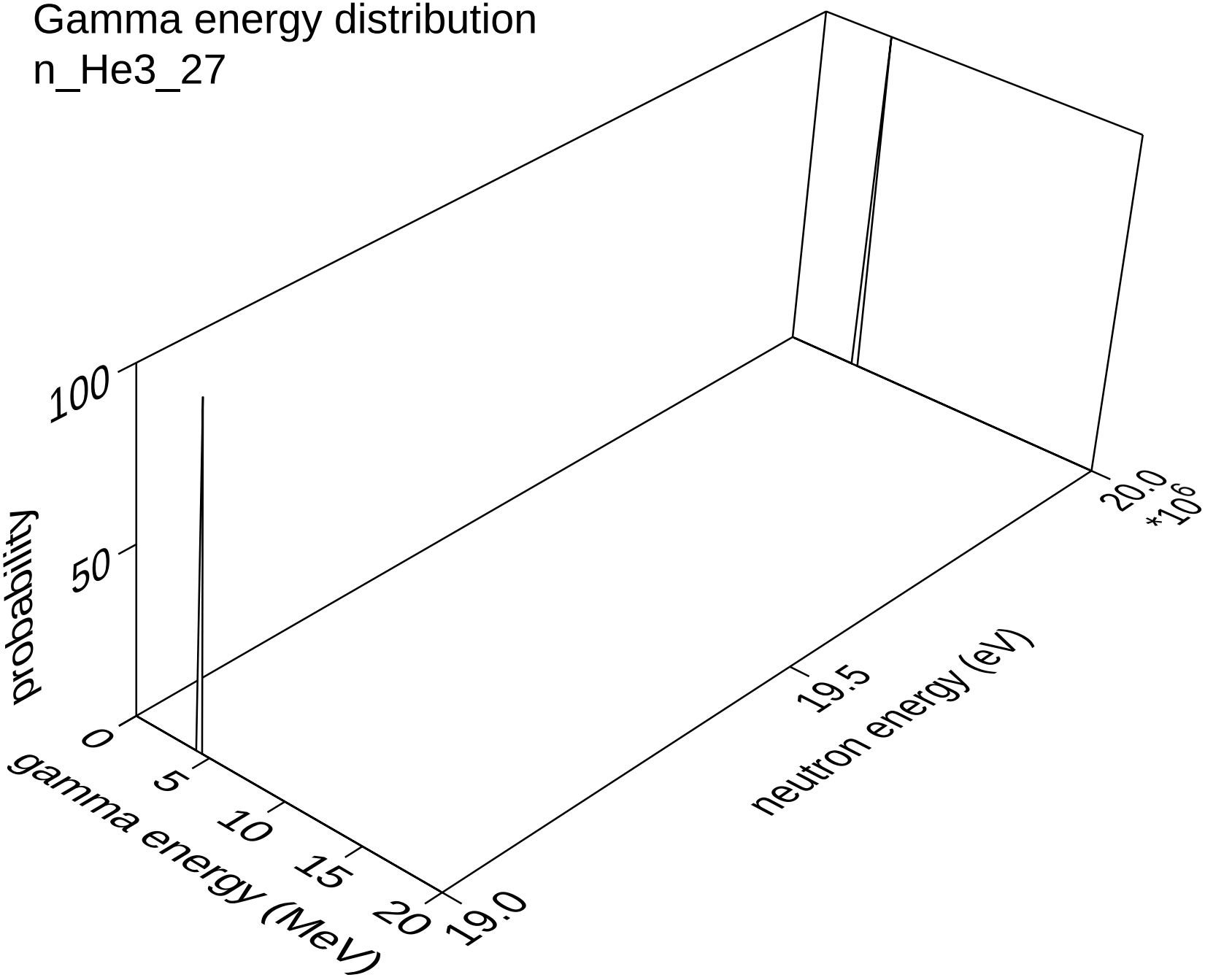


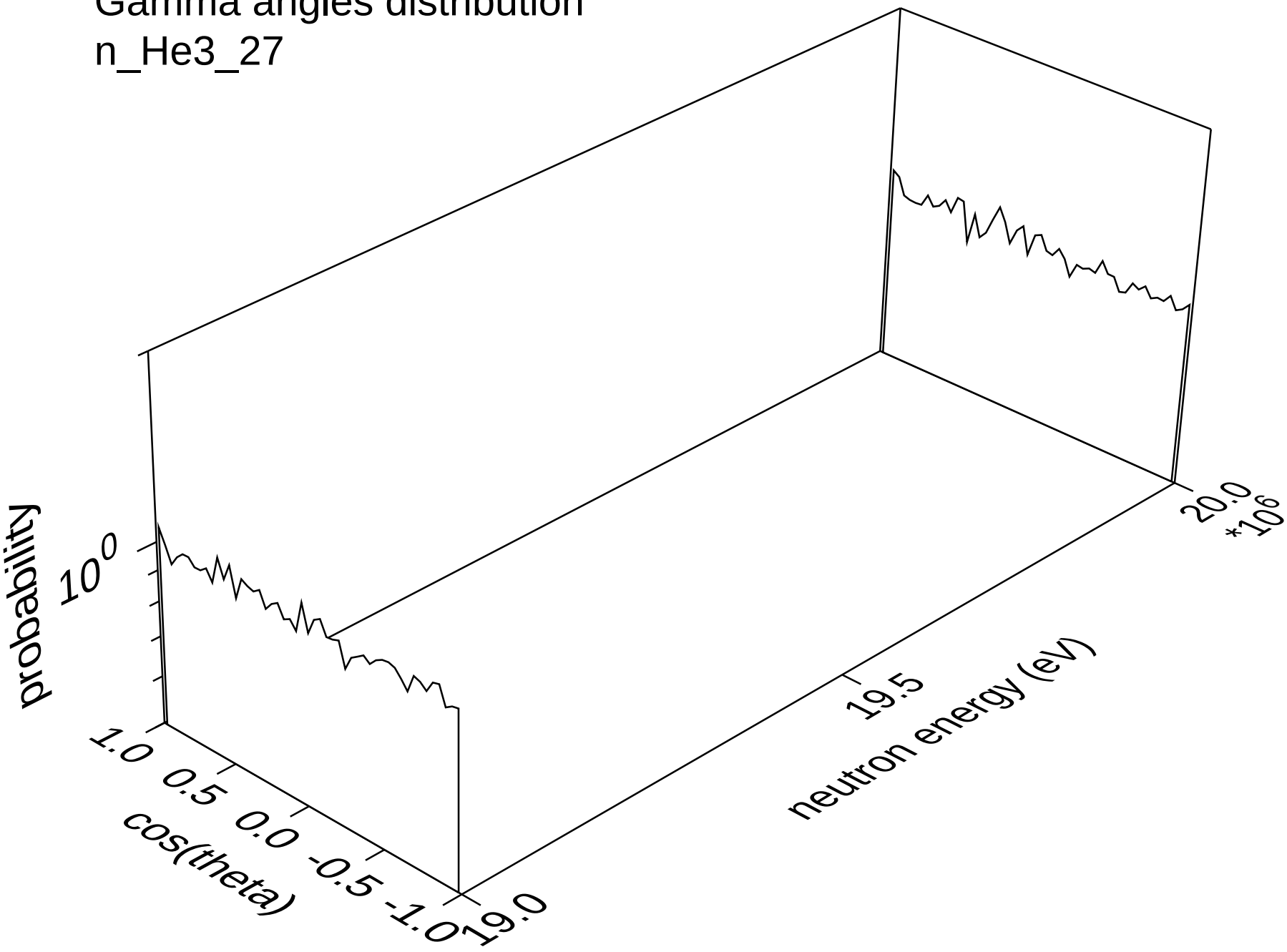

Gamma energy distribution
n_He3_26
probability
100
50
0
gamma energy (MeV)
5
10
15
20
neutron energy (eV)
19.0
19.5
20.0
*10⁶


Gamma angles distribution
n_He3_26
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
19.0
19.5
20.0
*10^6
neutron energy (eV)

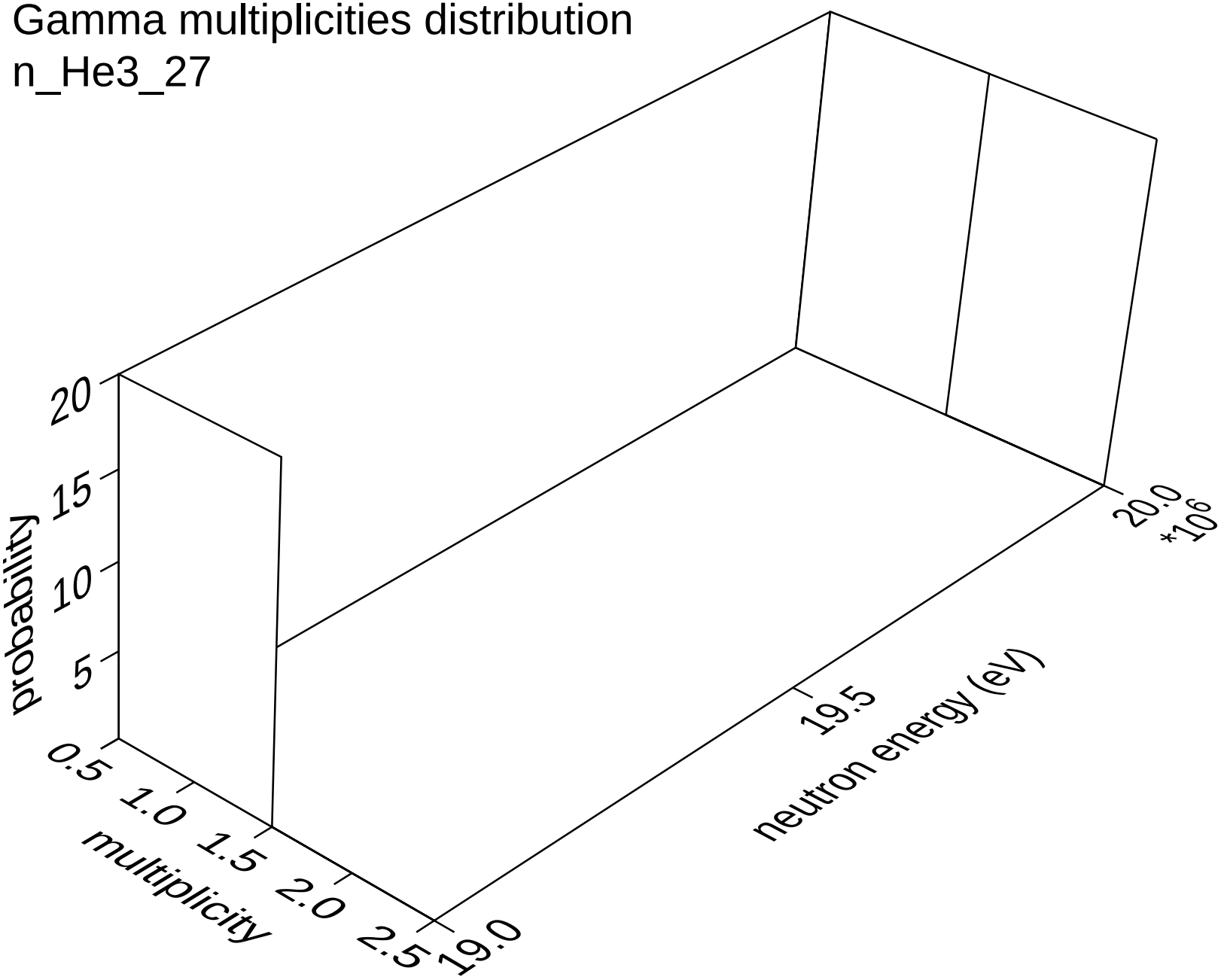
Gamma multiplicities distribution
n_He3_26

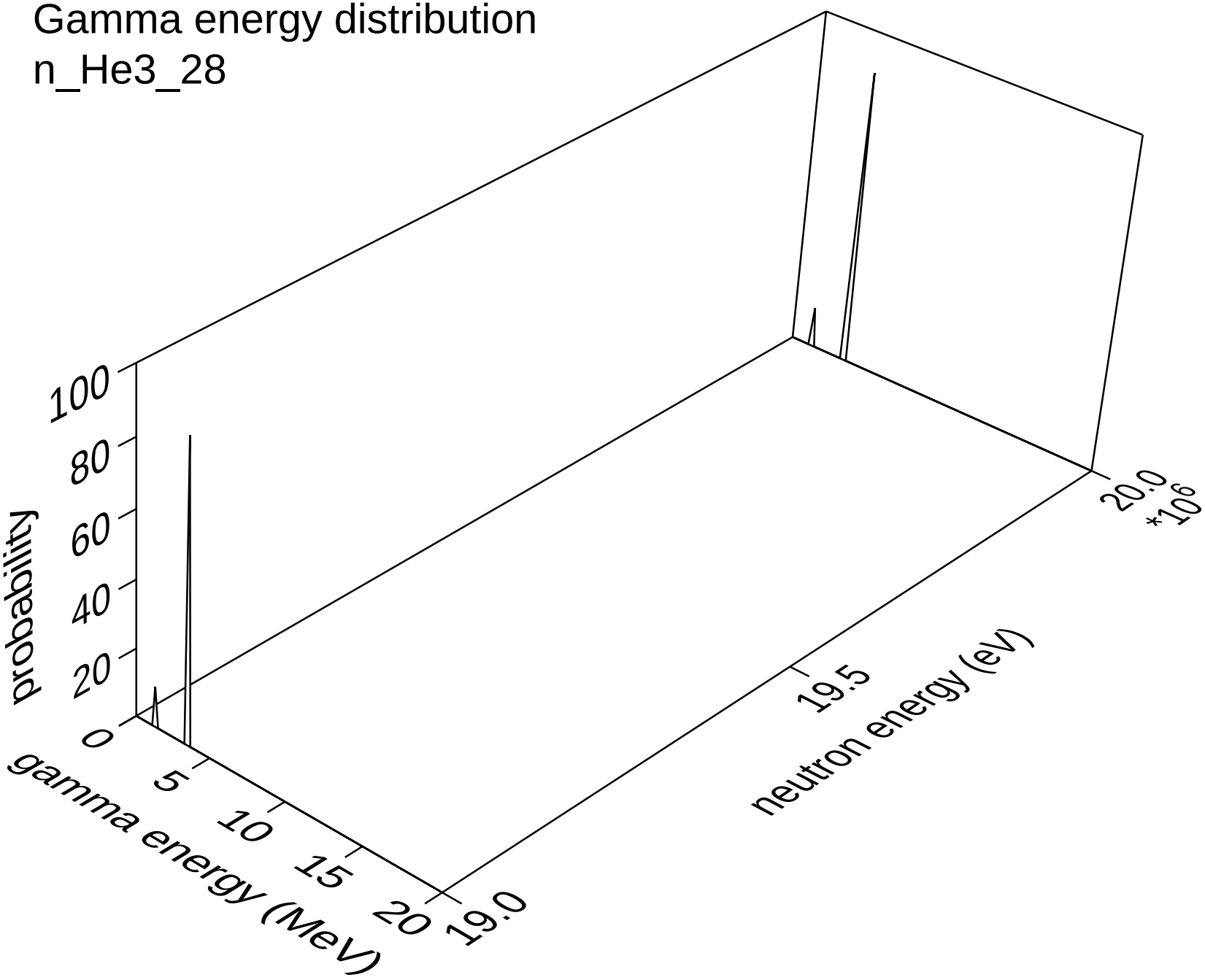


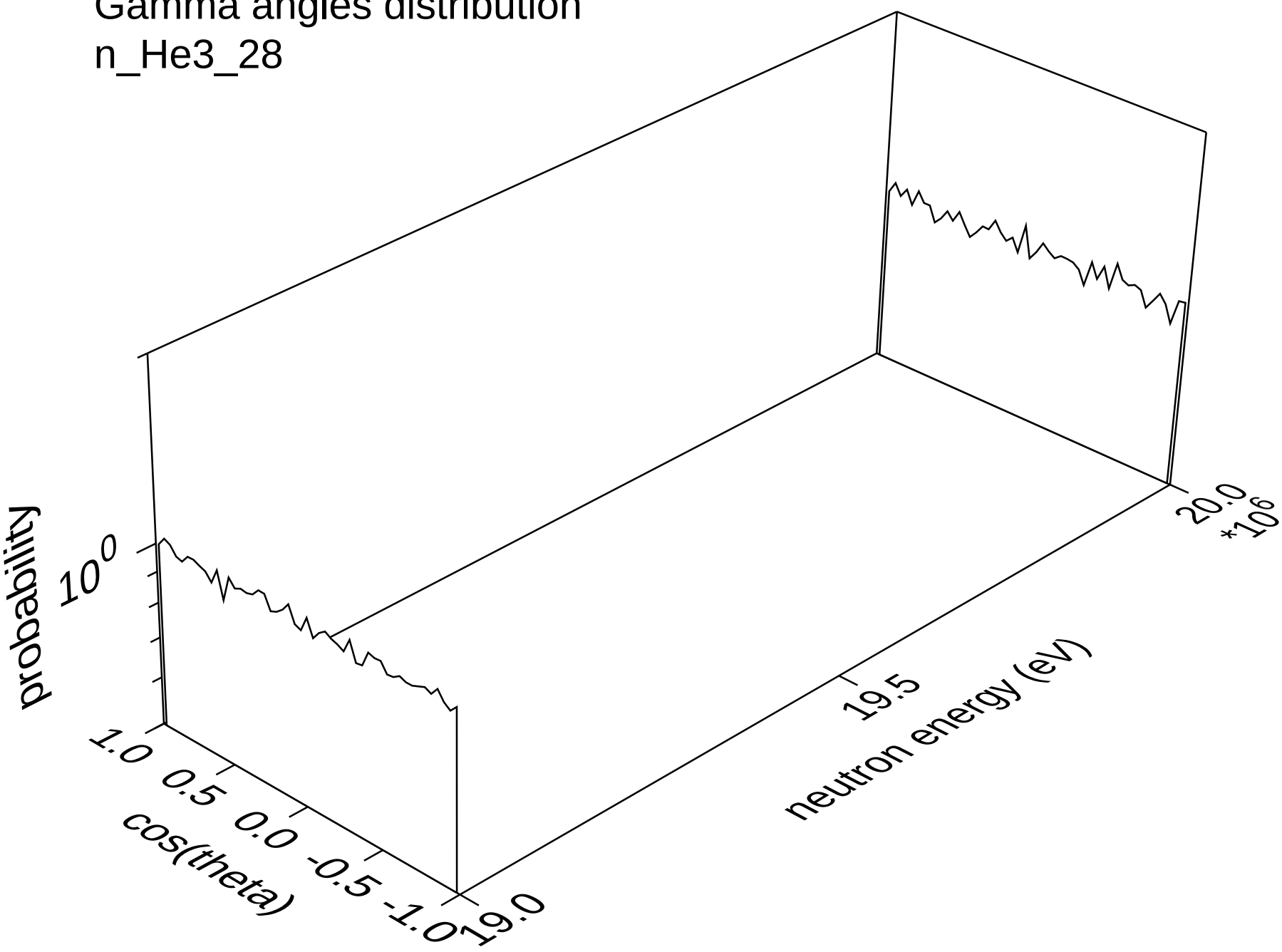

Gamma energy distribution
n_He3_27
probability
100
50
0
gamma energy (MeV)
5
10
15
20
neutron energy (eV)
19.0
19.5
20.0
*10^6


Gamma angles distribution
n_He3_27
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
19.0
19.5
20.0
*10^6
neutron energy (eV)

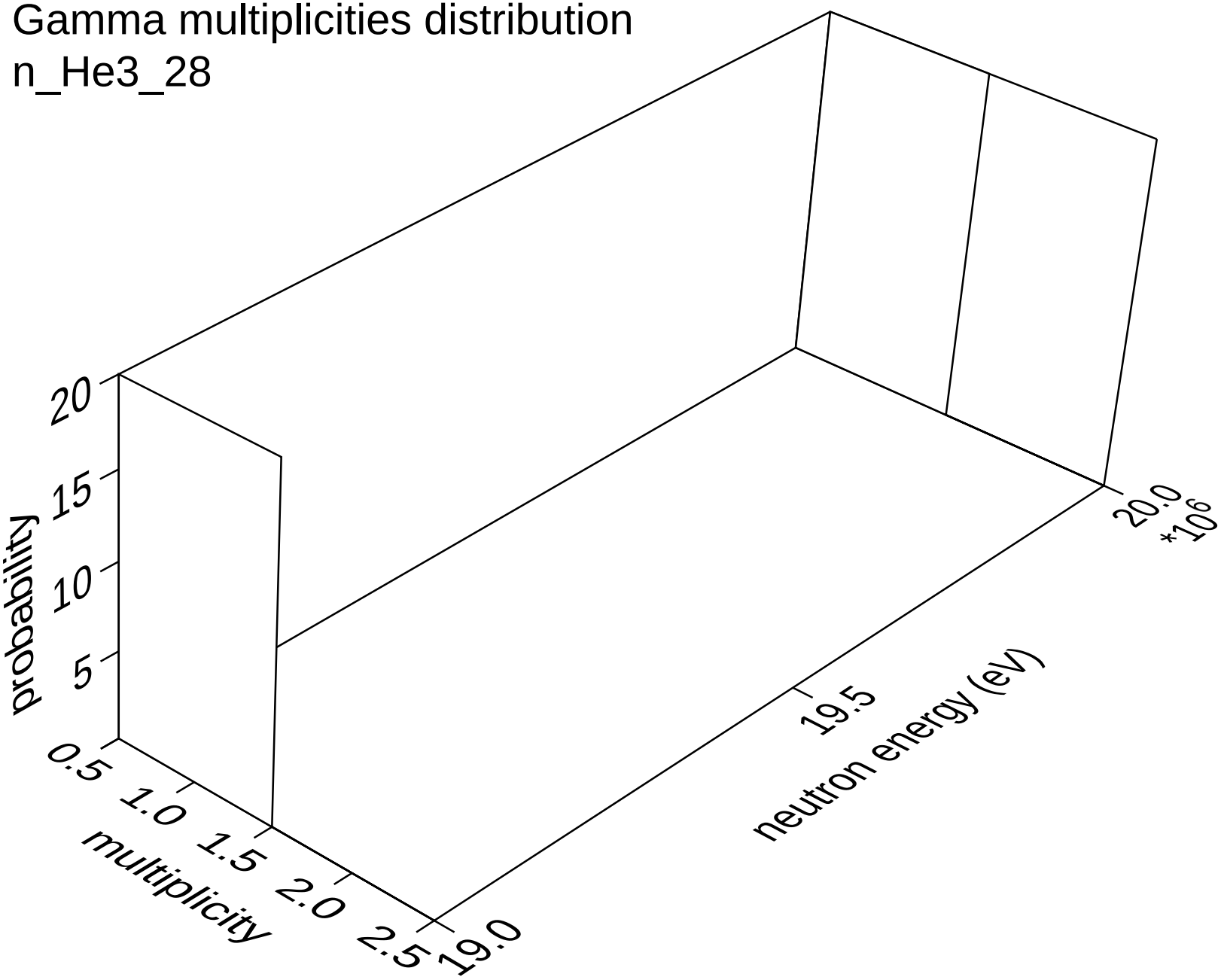
Gamma multiplicities distribution
n_He3_27

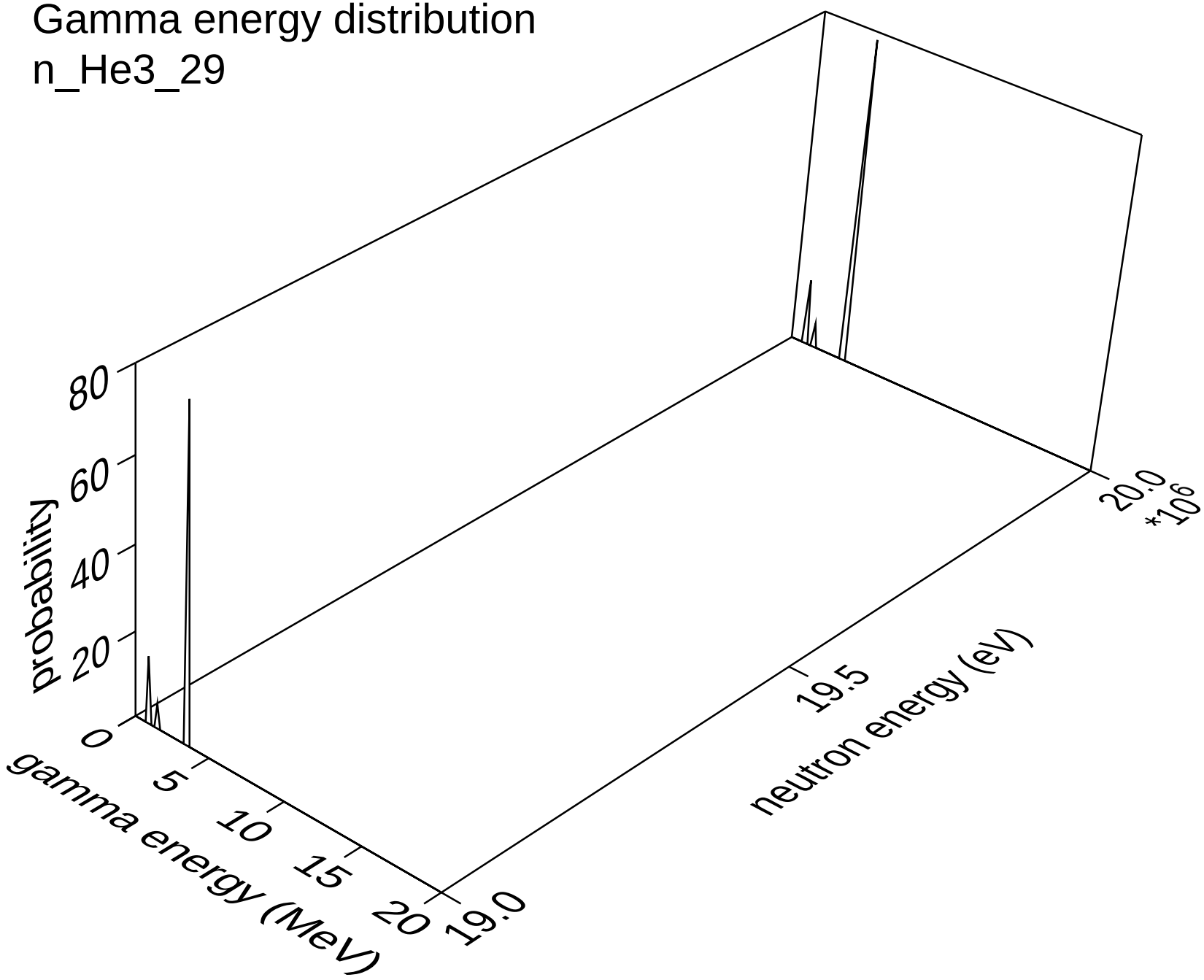


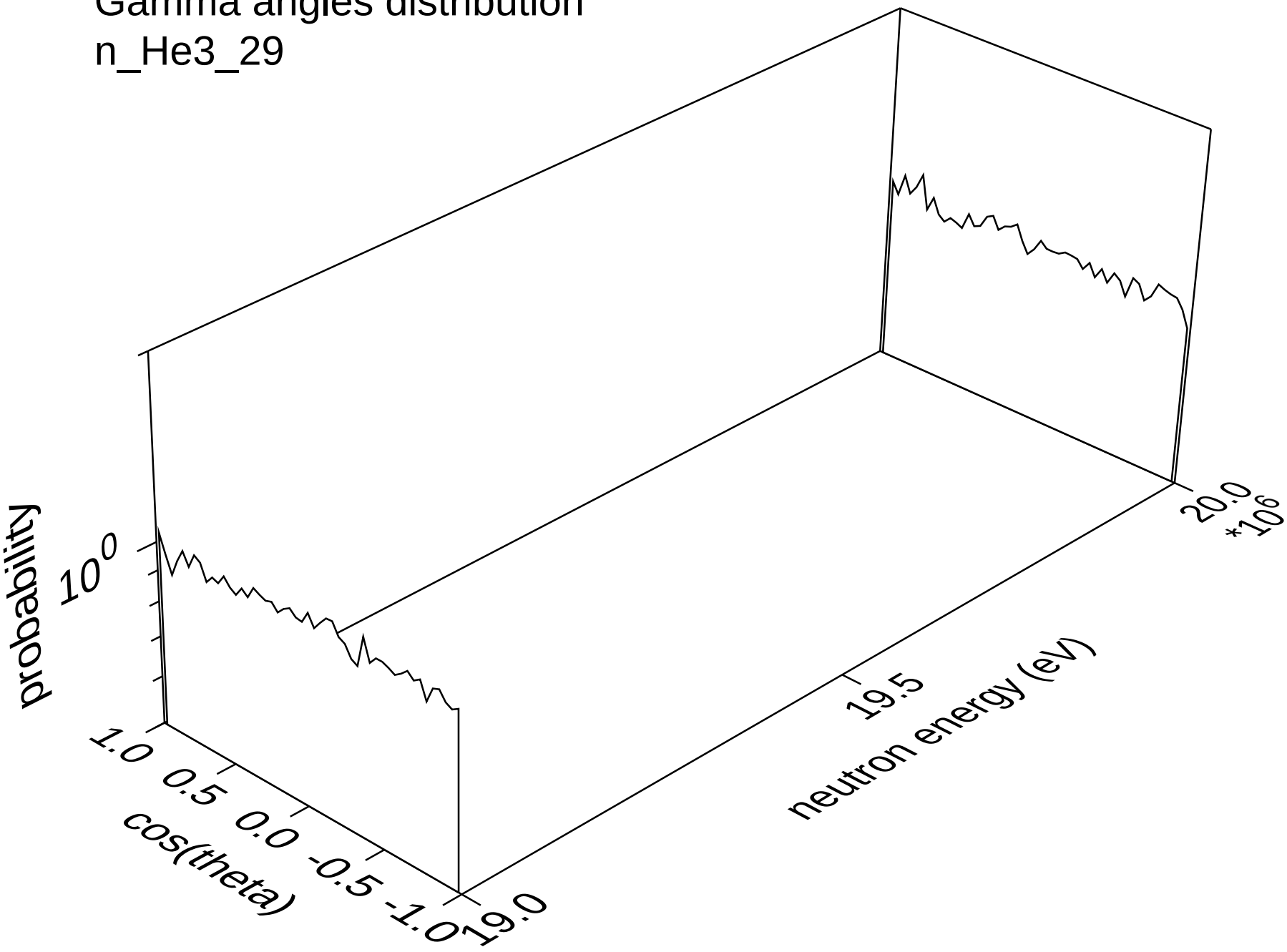

Gamma energy distribution
n_He3_28
probability
100
80
60
40
20
0
gamma energy (MeV)
5
10
15
20
19.0
19.5
20.0
*10^6
neutron energy (eV)


Gamma angles distribution
n_He3_28
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
19.0
19.5
20.0
*10^6
neutron energy (eV)

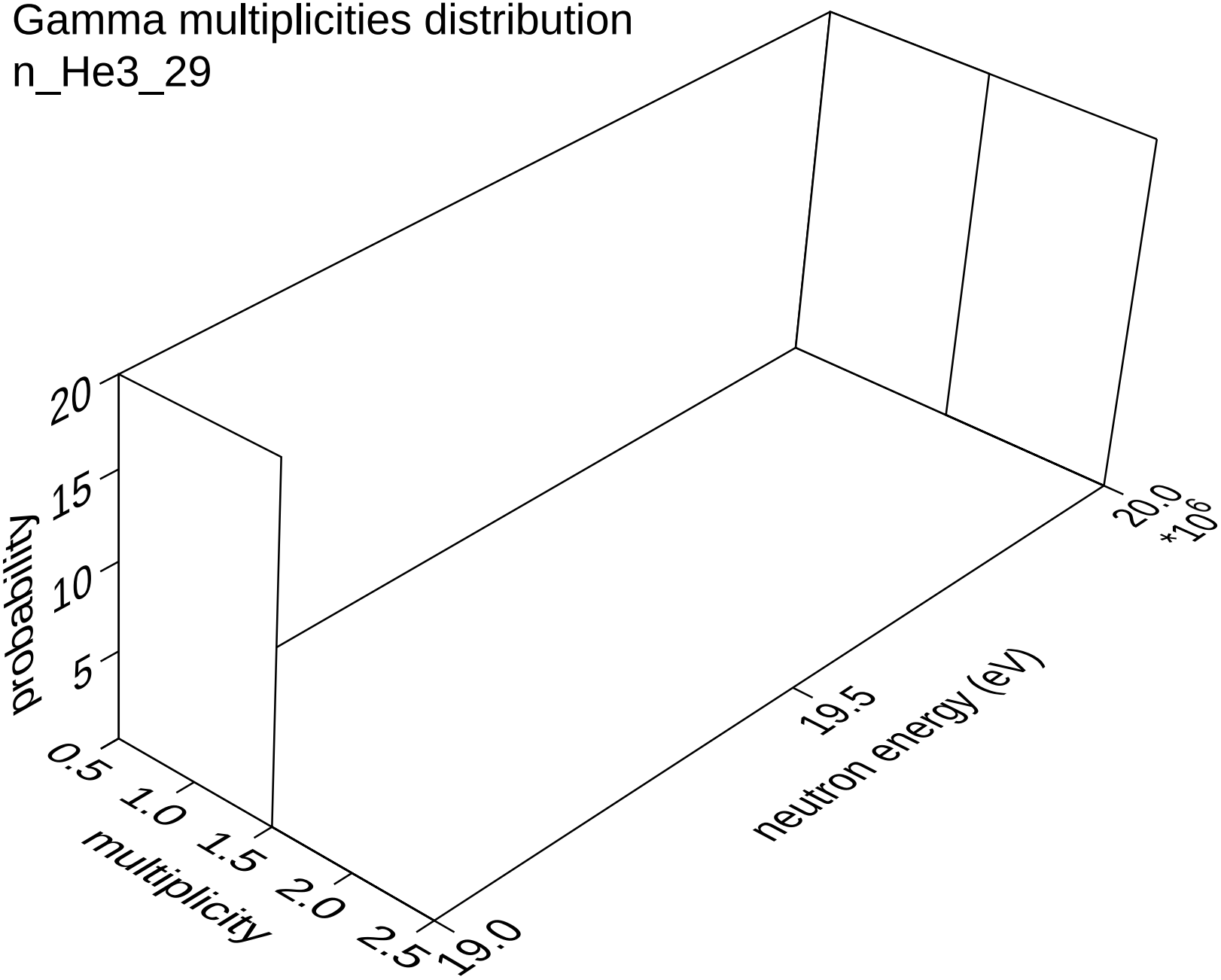
Gamma multiplicities distribution
n_He3_28

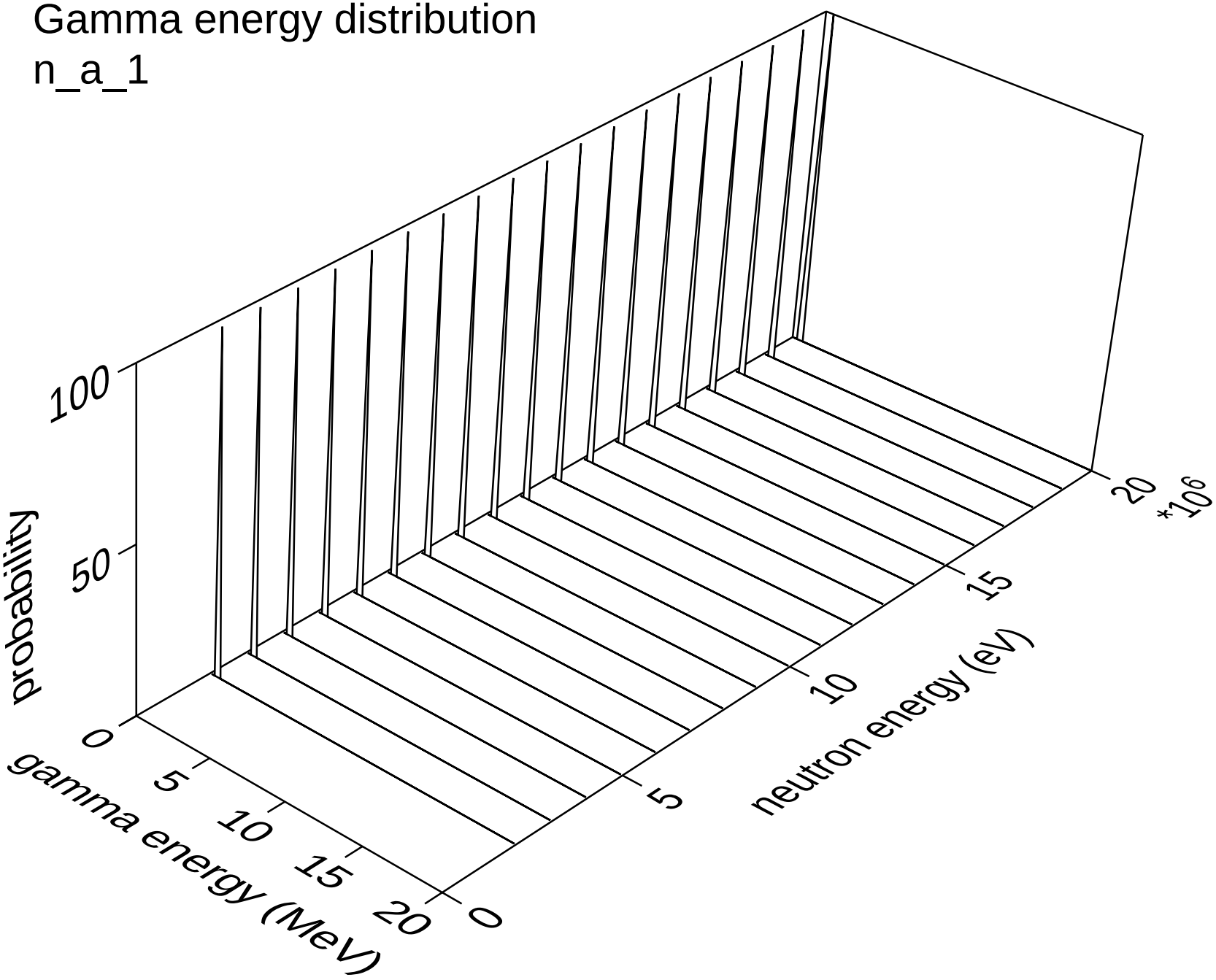


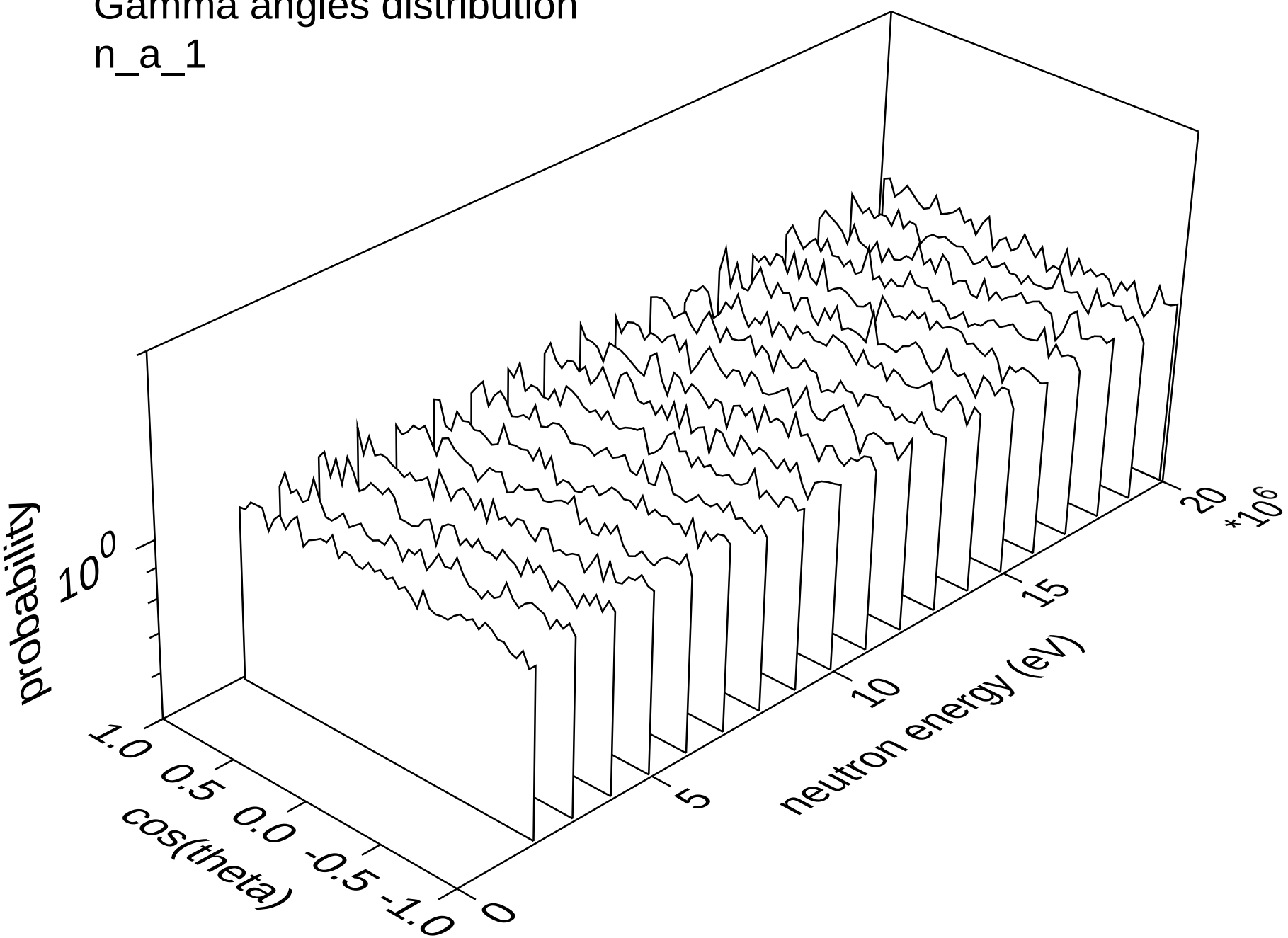

Gamma energy distribution
n_He3_29
probability
80
60
40
20
0
gamma energy (MeV)
5
10
15
20
19.0
19.5
20.0
*10^6
neutron energy (eV)


Gamma angles distribution
n_He3_29
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
19.0
19.5
20.0
*10^6
neutron energy (eV)

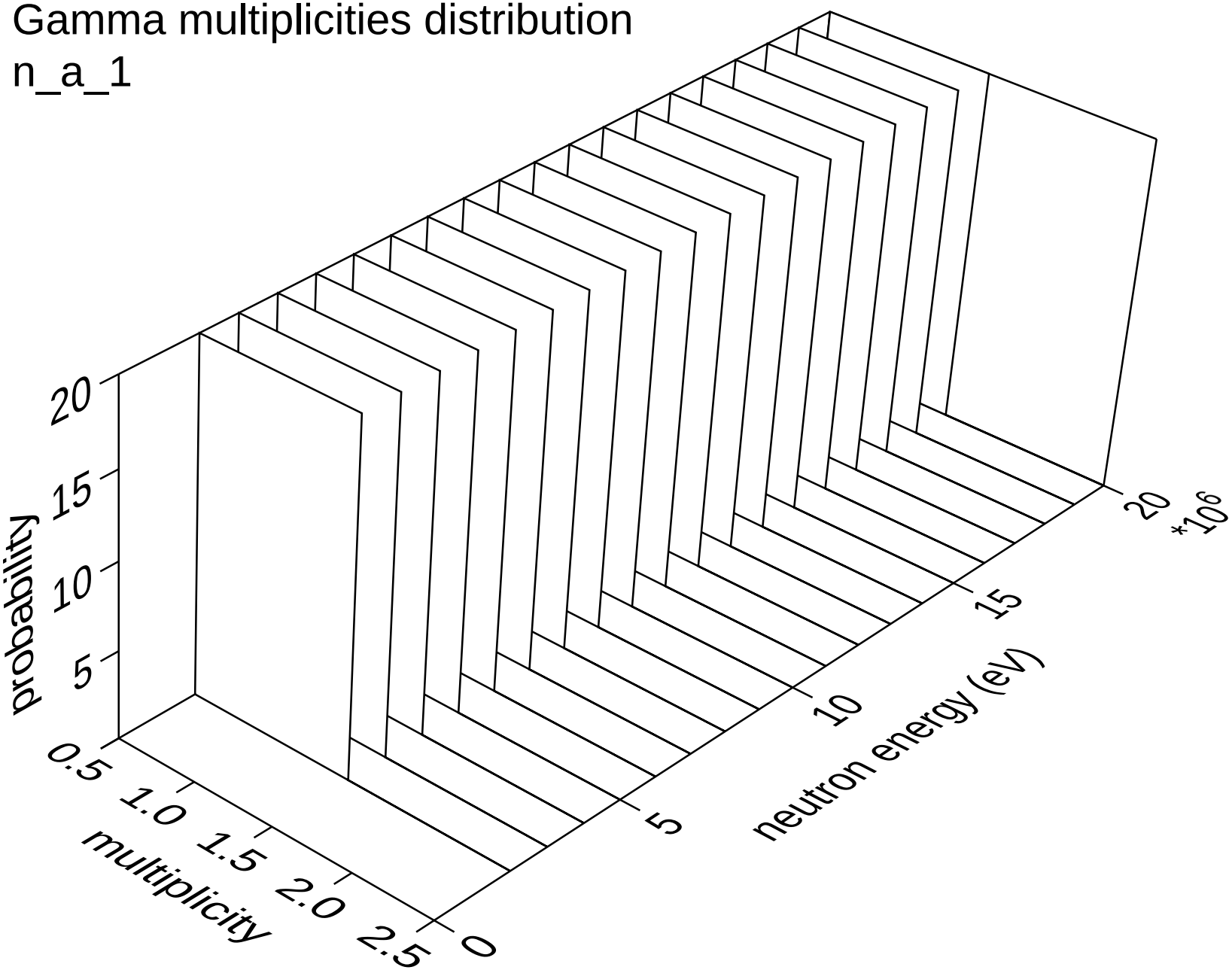
Gamma multiplicities distribution
n_He3_29

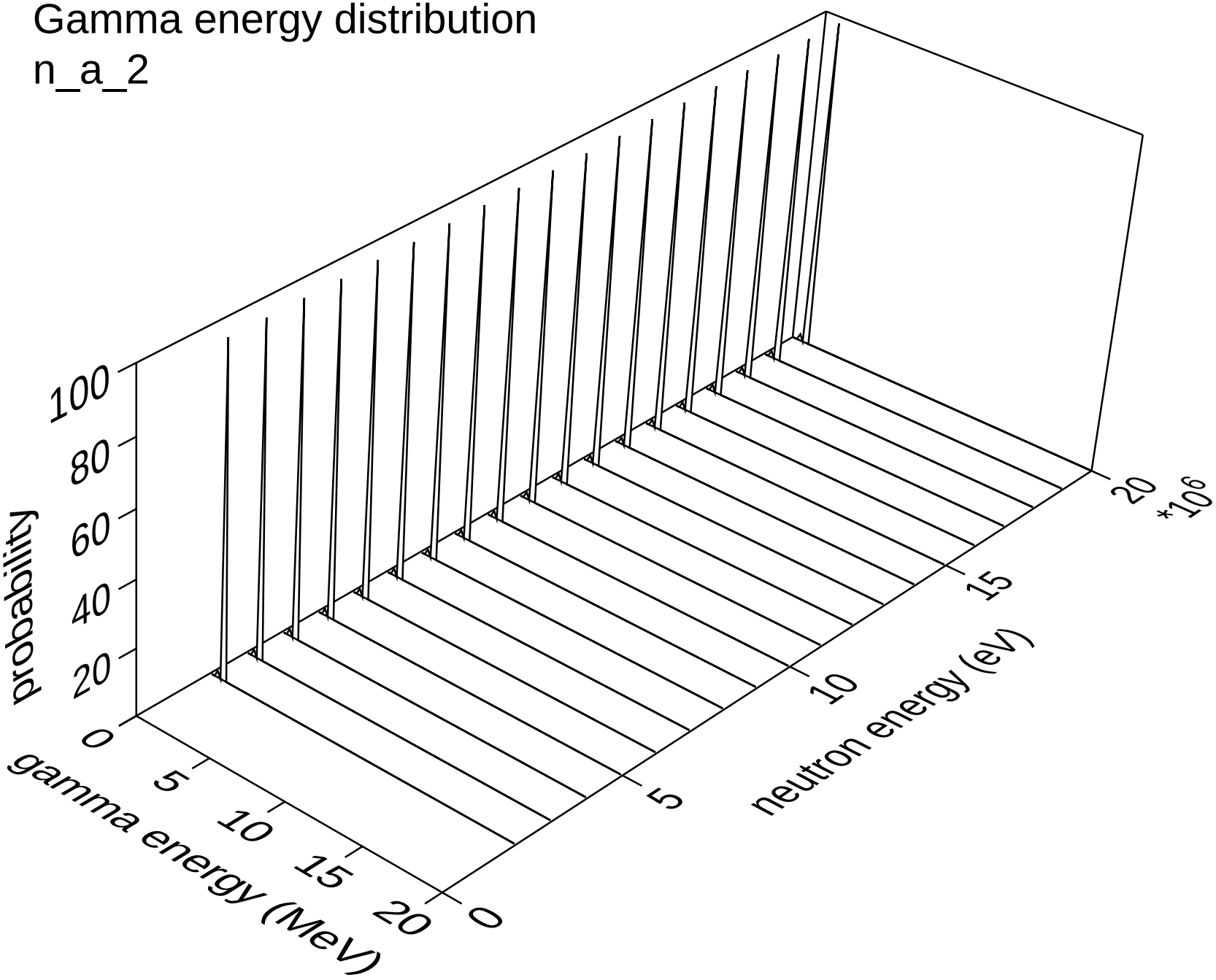


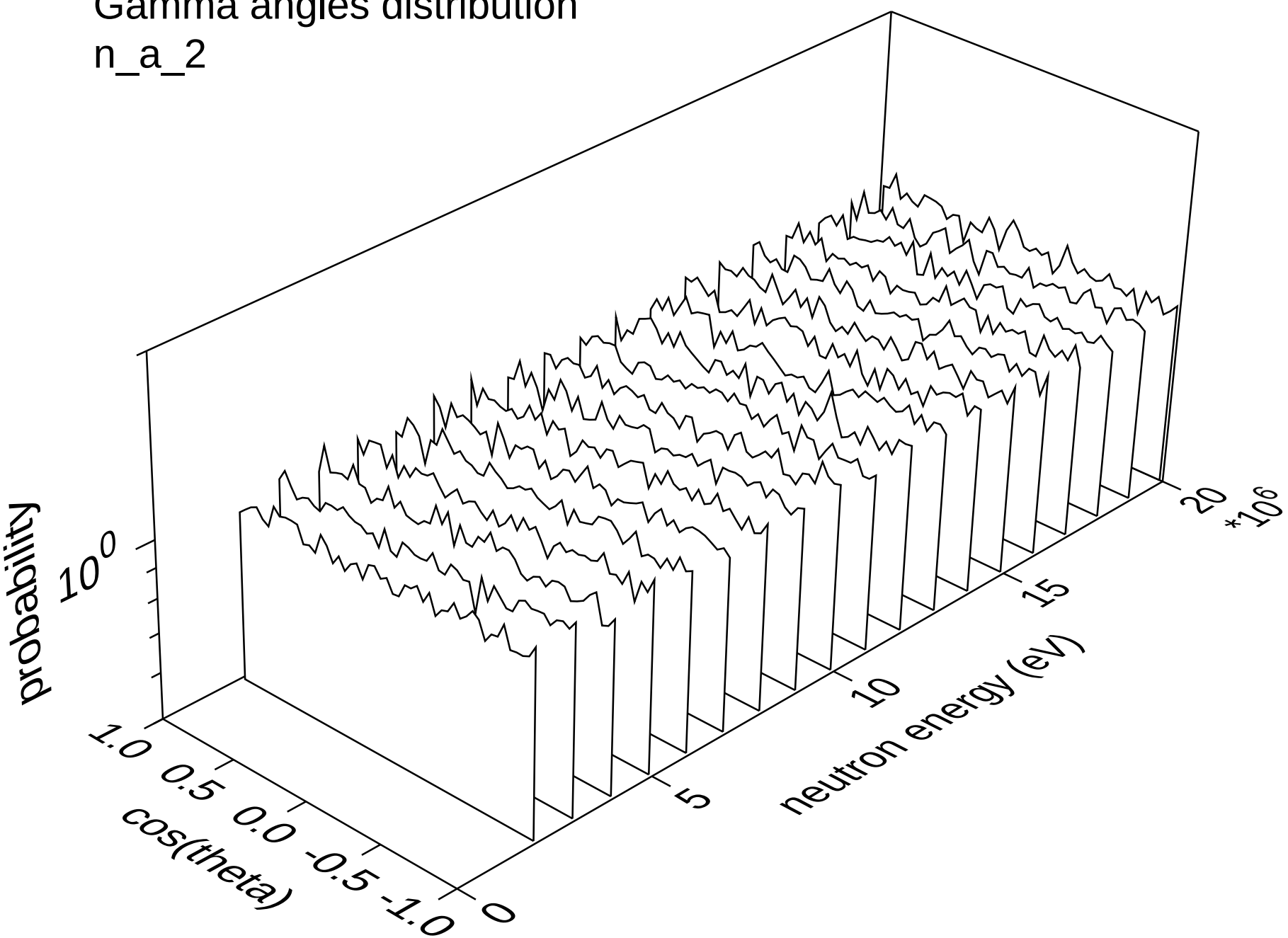

Gamma energy distribution
n_a_1
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_a_1
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

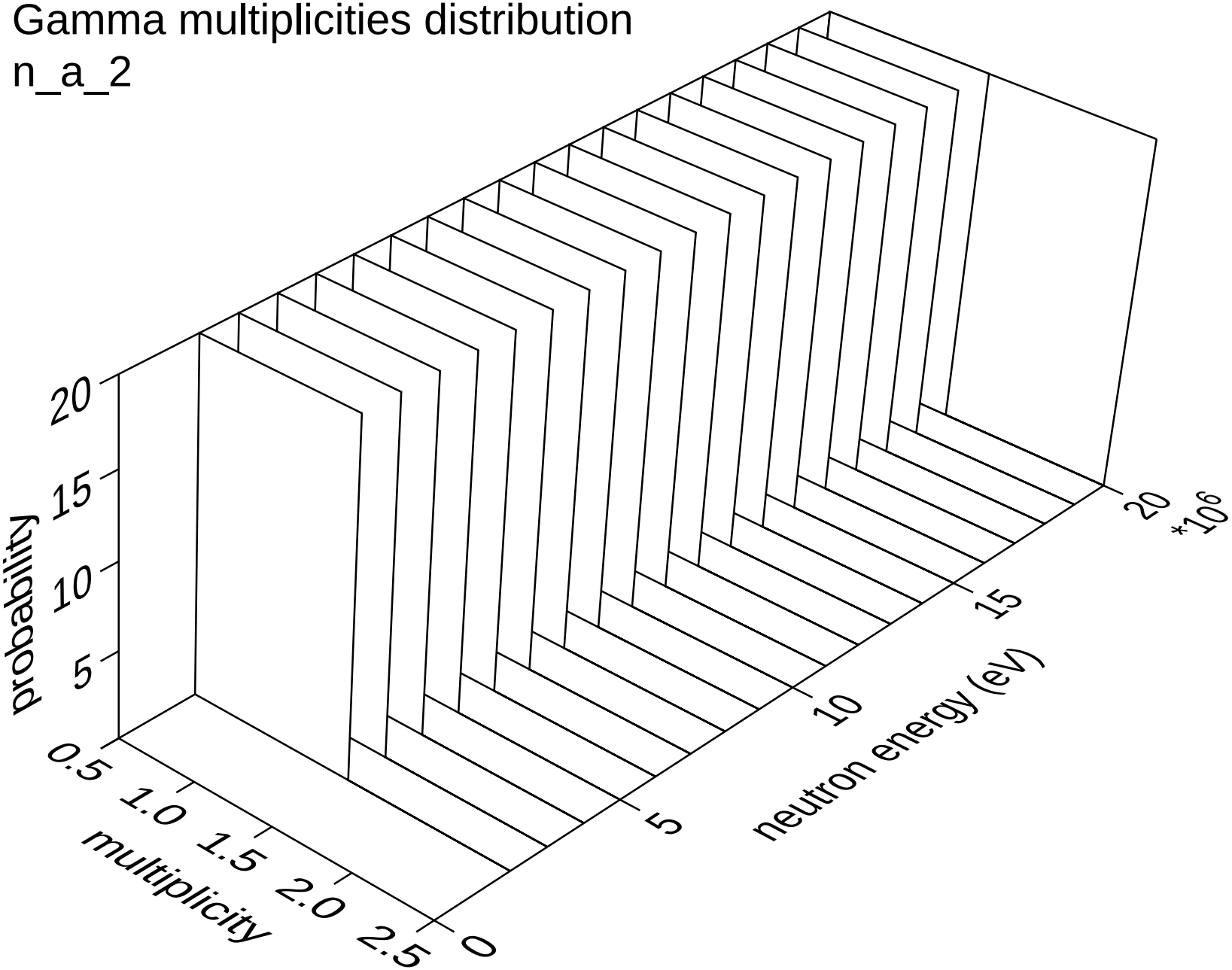
Gamma multiplicities distribution
n_a_1

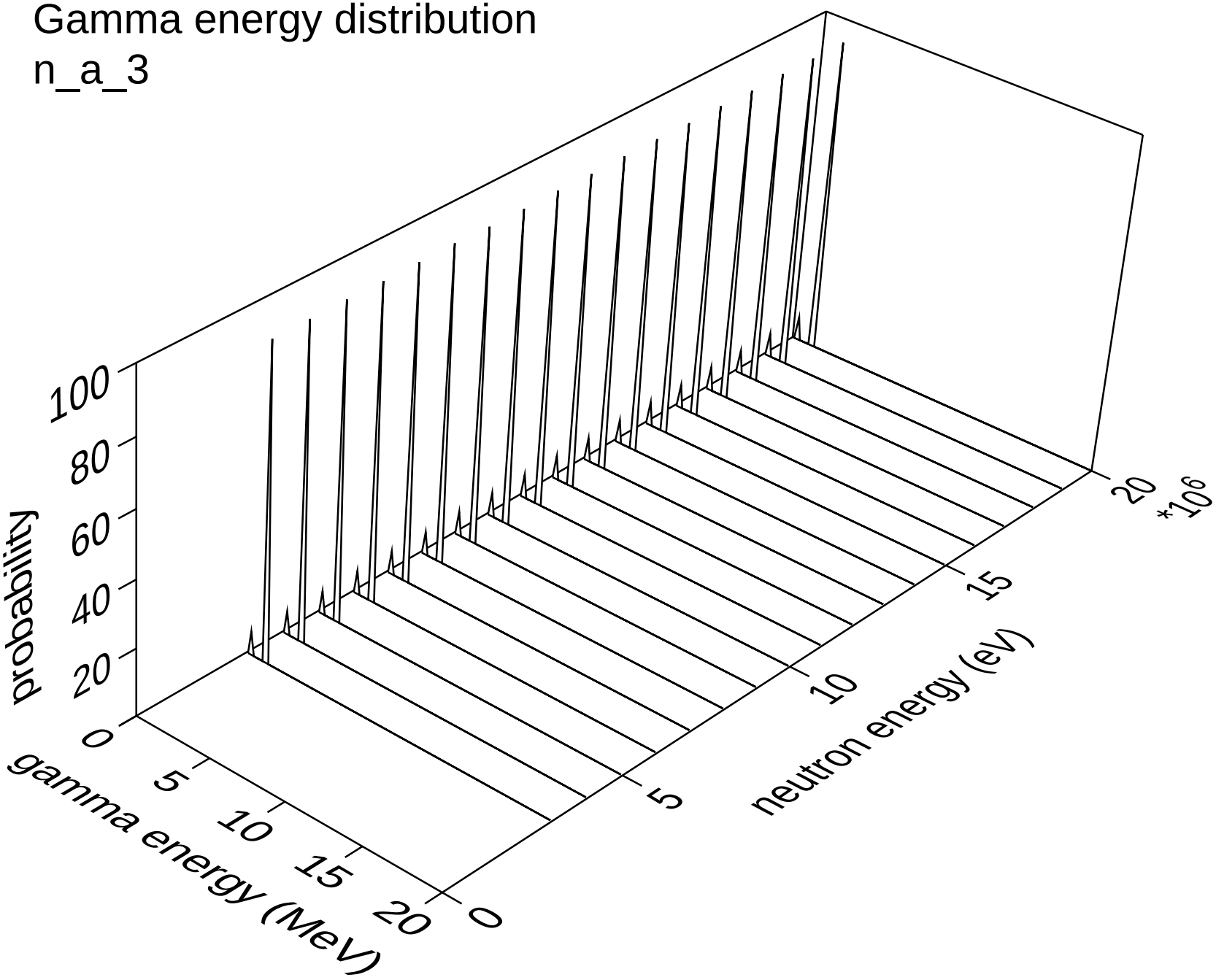


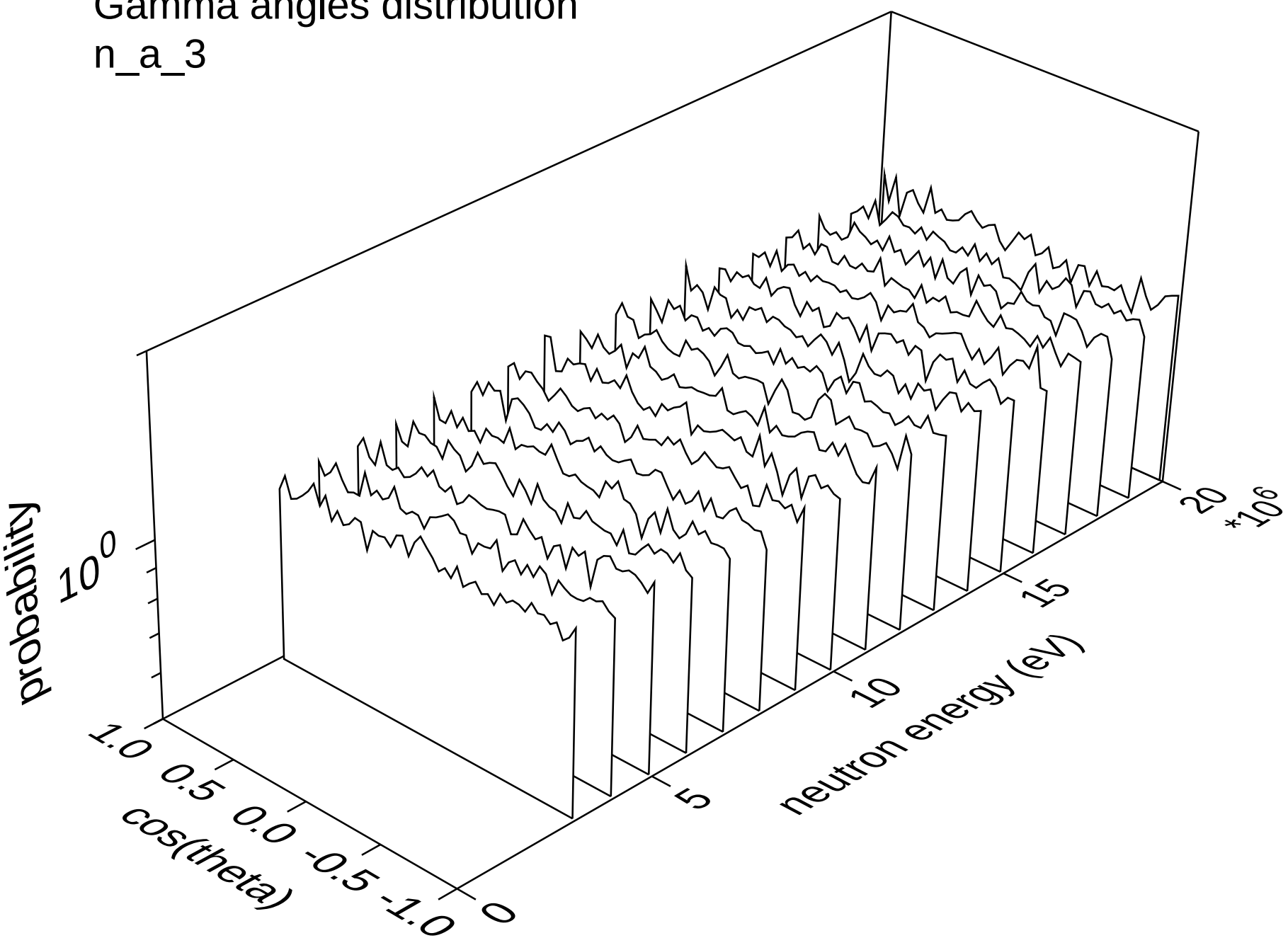

Gamma energy distribution
n_a_2
probability
100
80
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_a_2
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

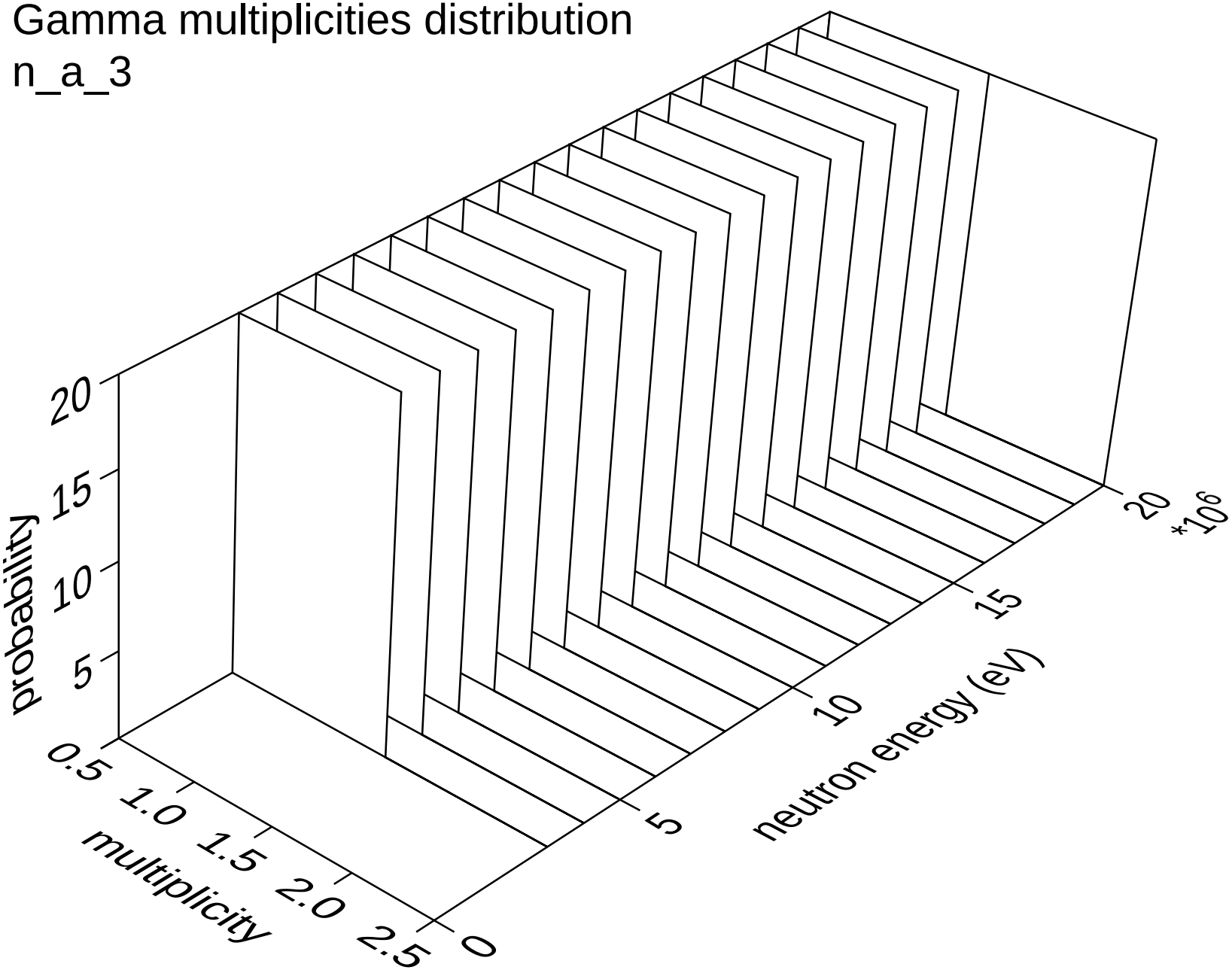
Gamma multiplicities distribution
n_a_2

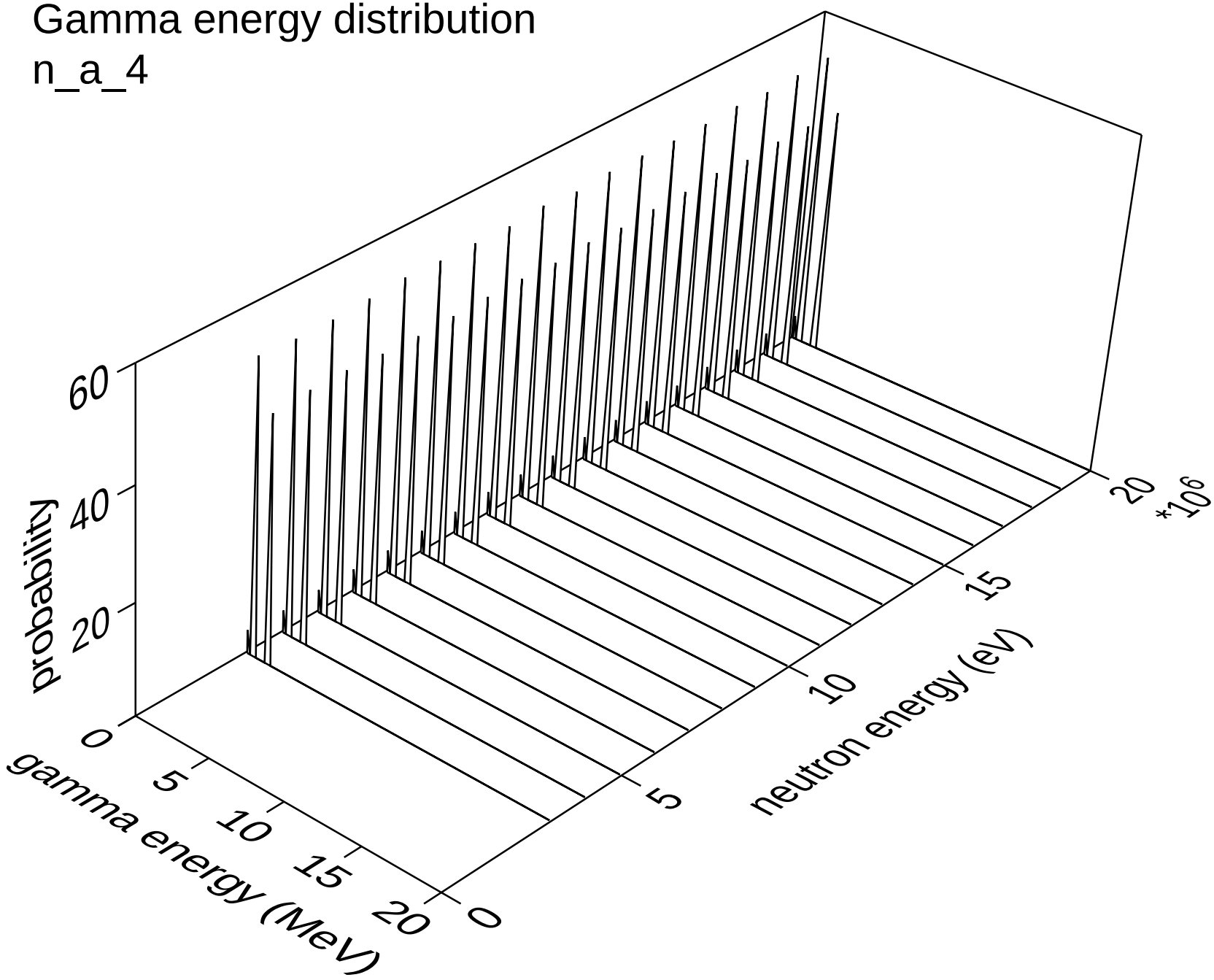


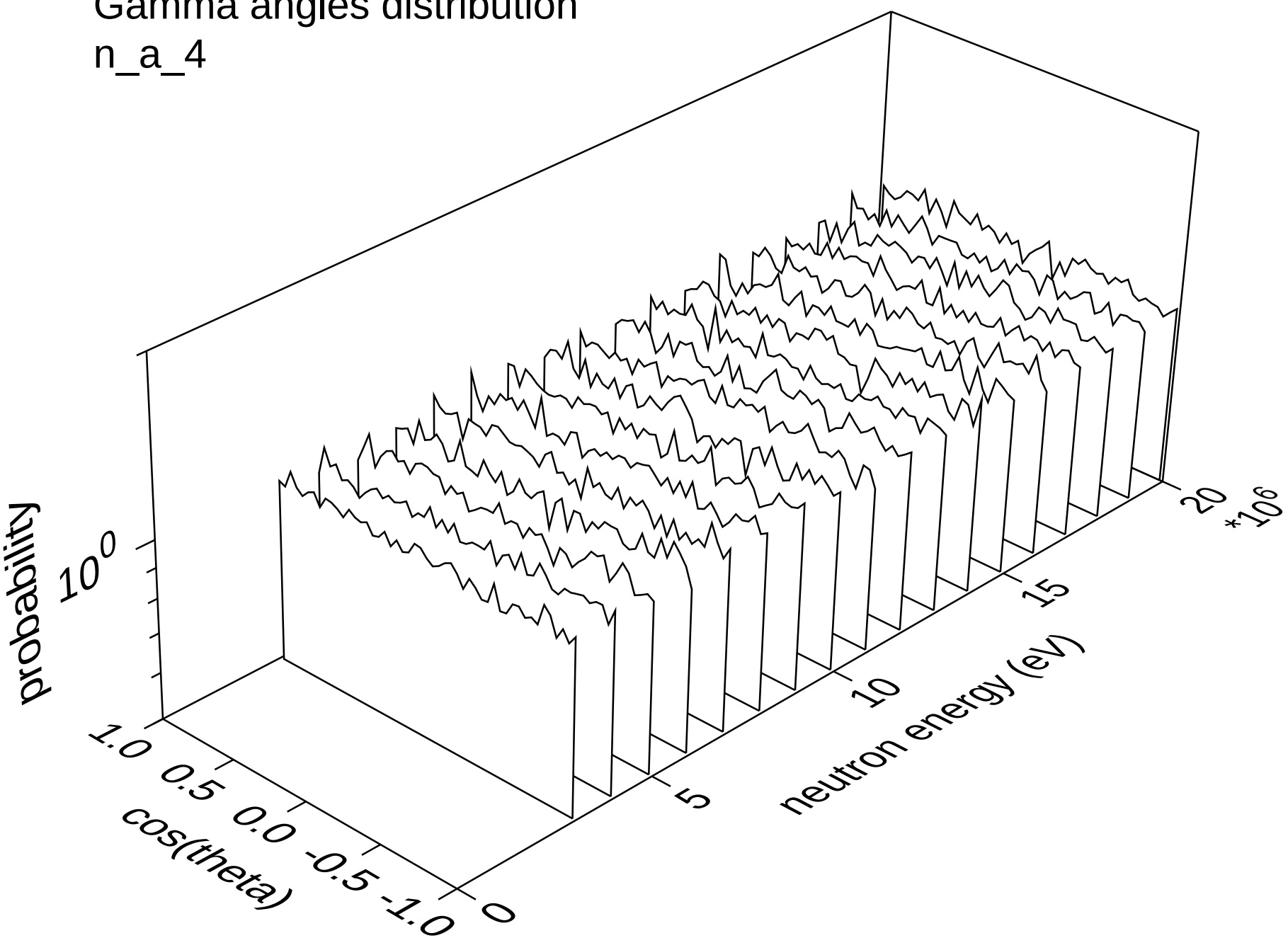

Gamma energy distribution
n_a_3
probability
100
80
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_a_3
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

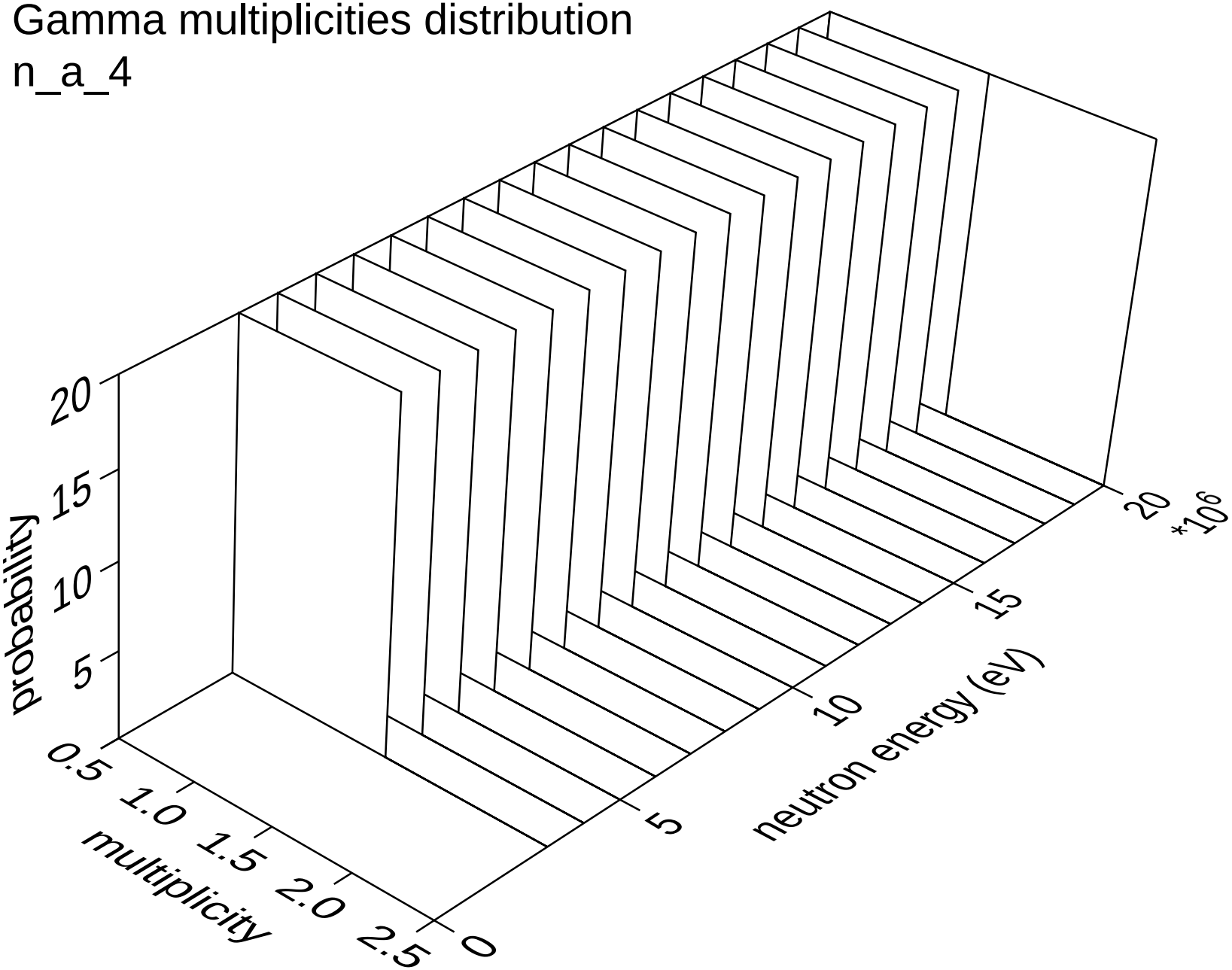
Gamma multiplicities distribution
n_a_3

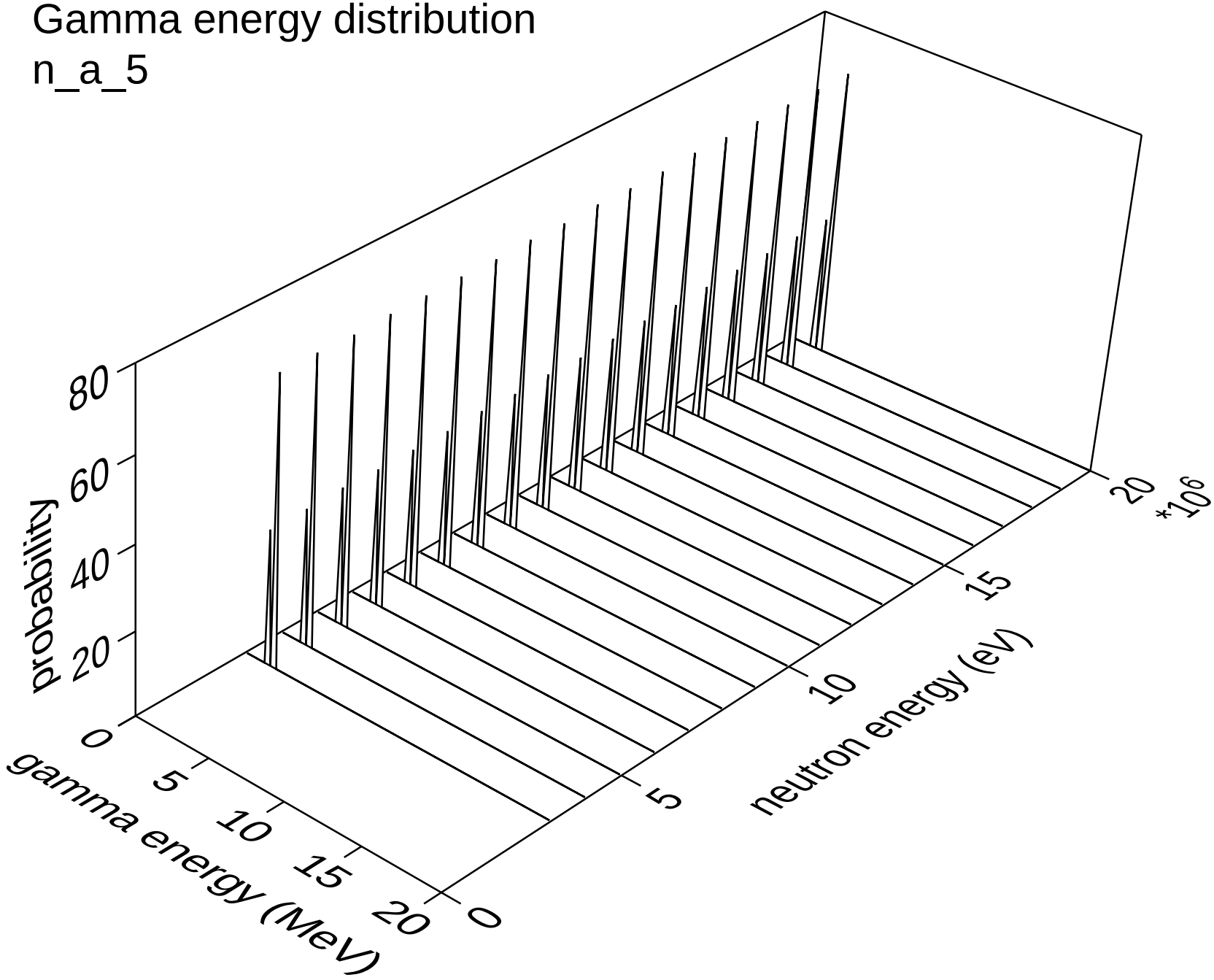


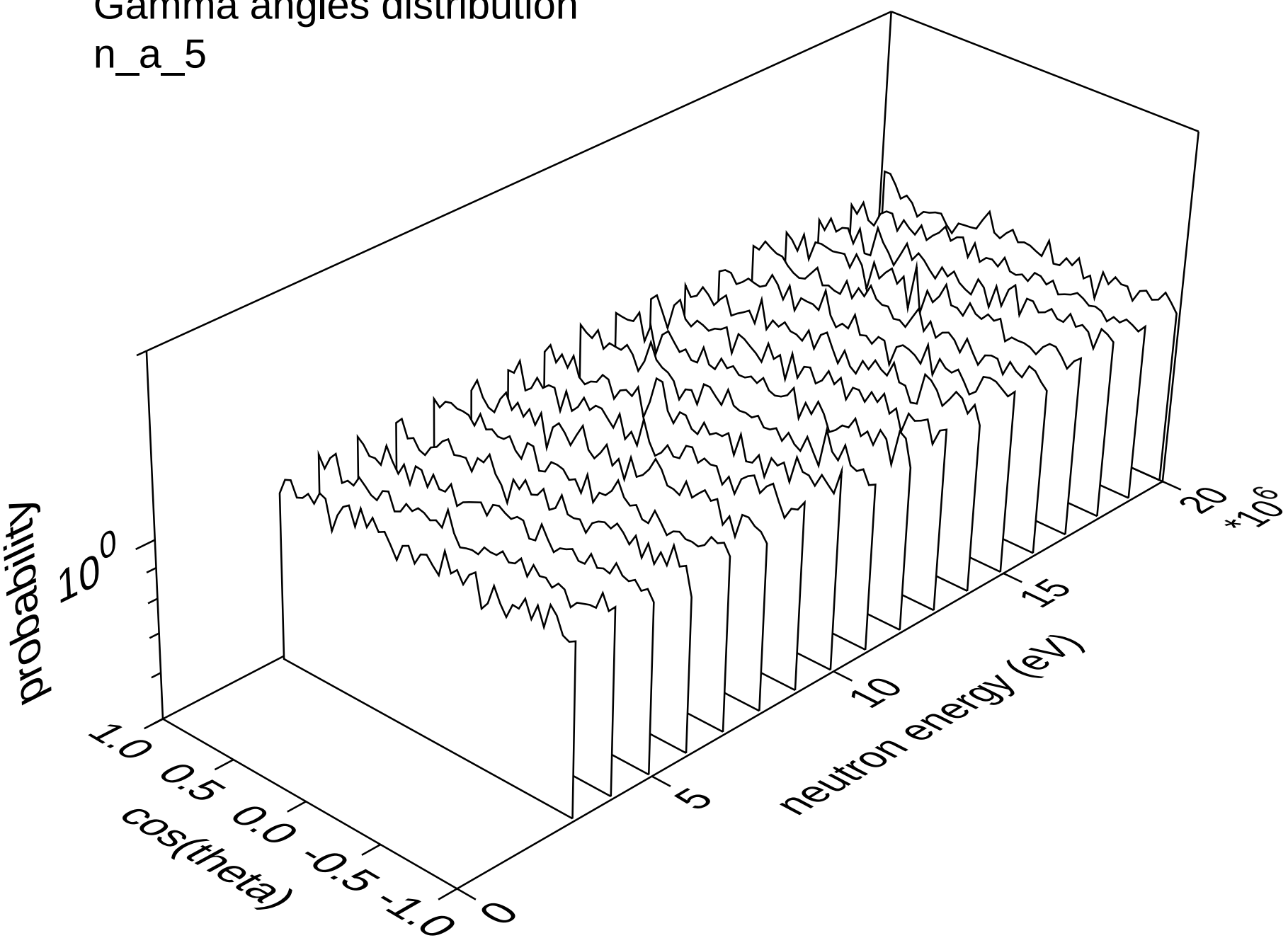

Gamma energy distribution
n_a_4
probability
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_a_4
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

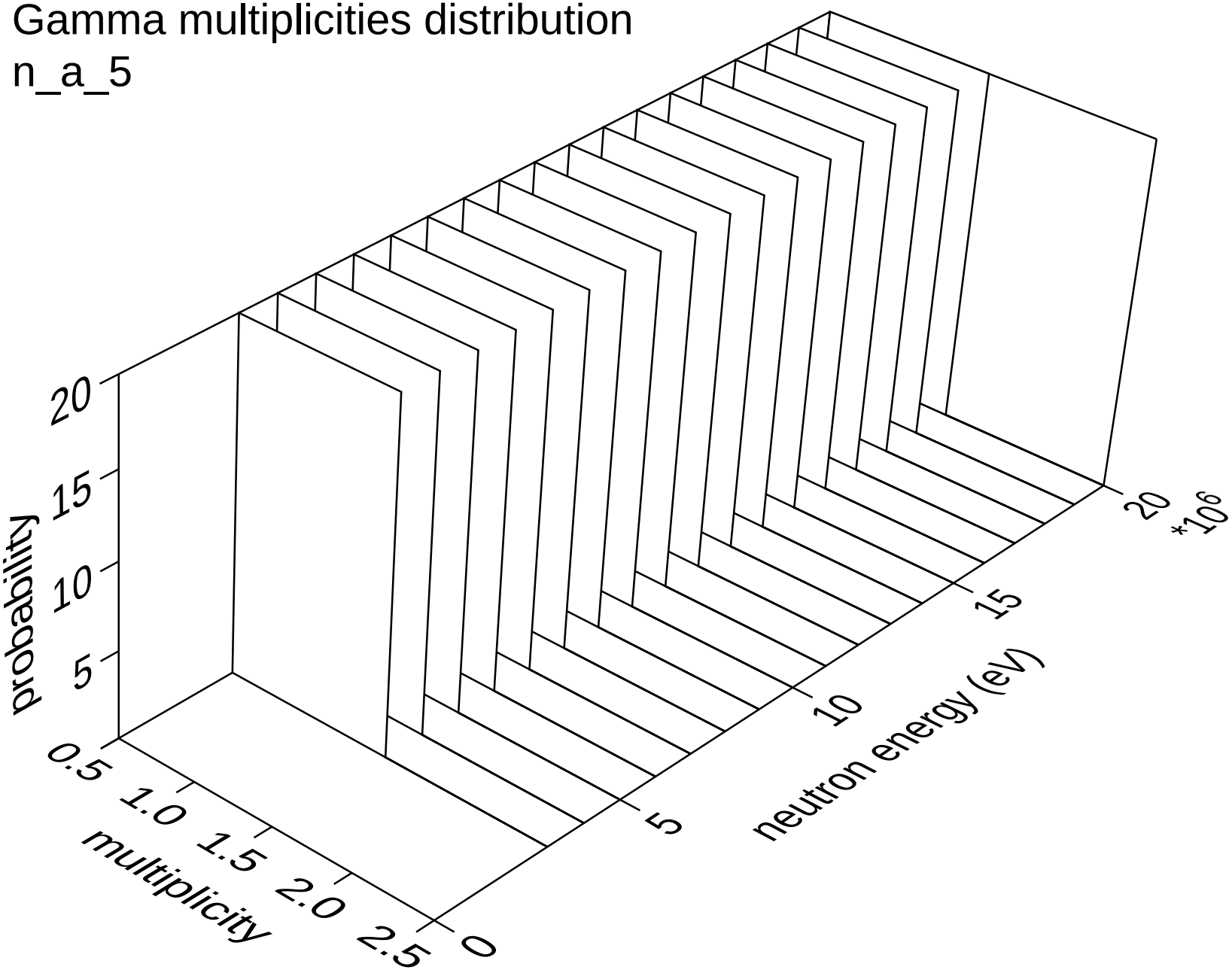
Gamma multiplicities distribution
n_a_4

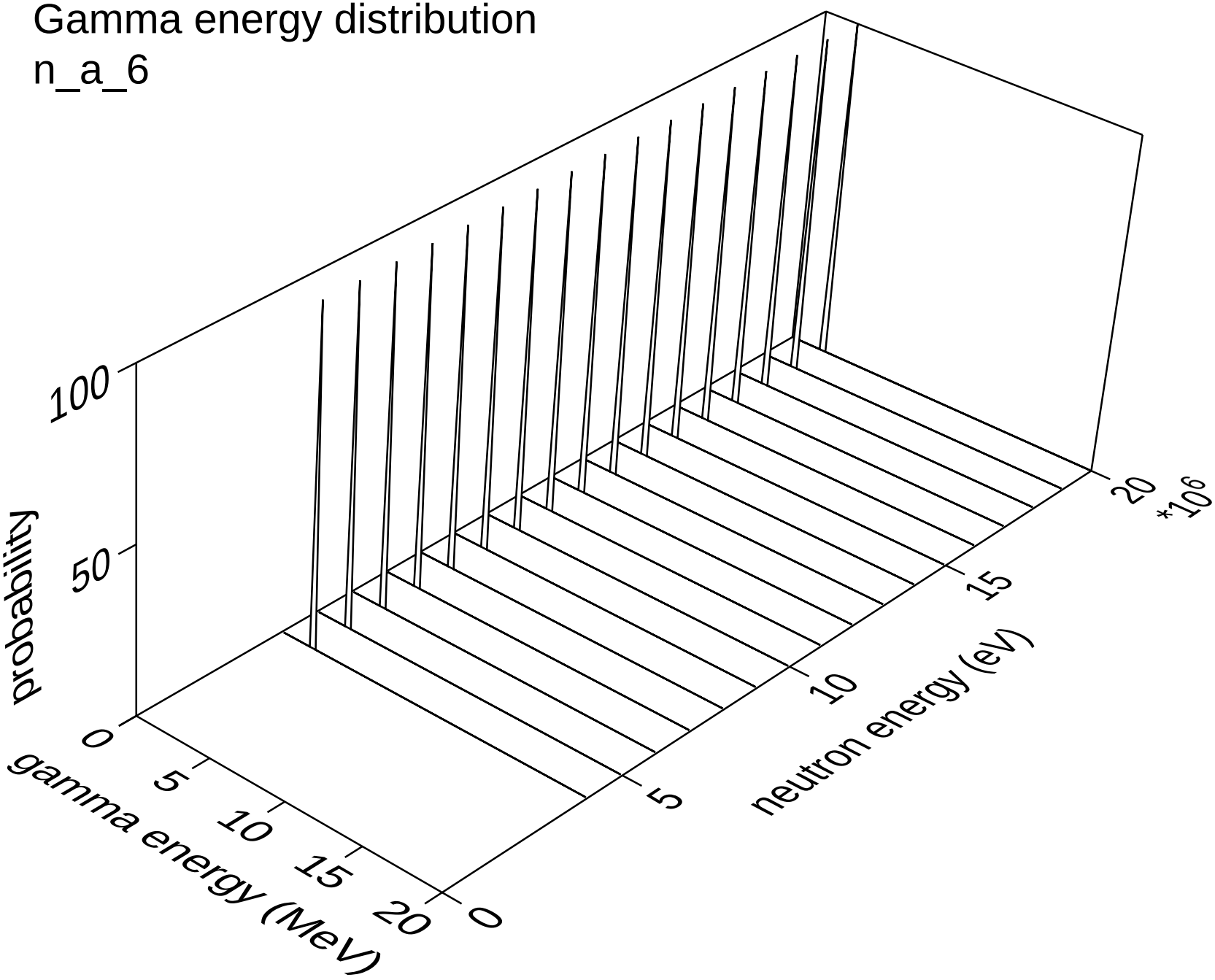


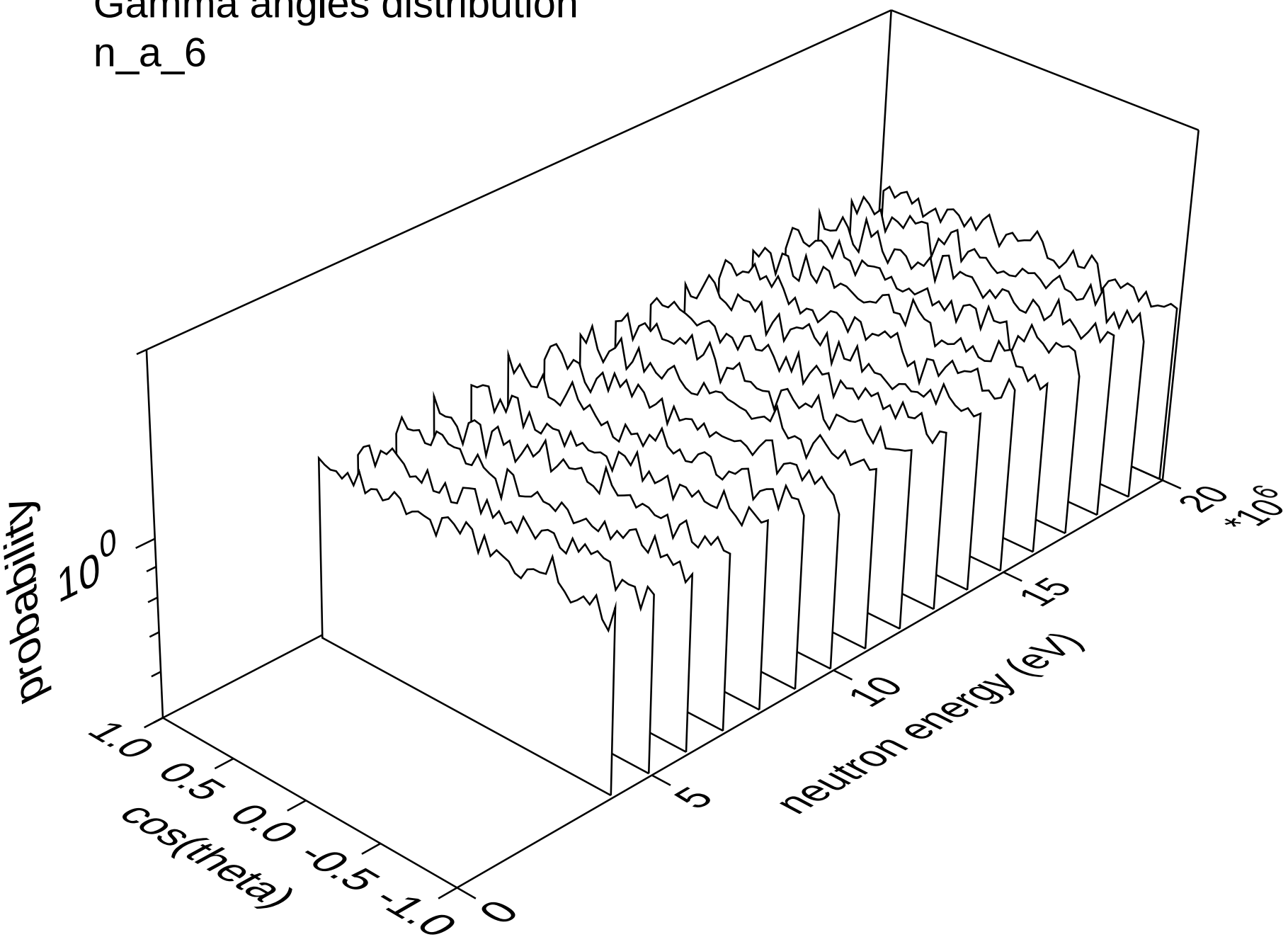

Gamma energy distribution
n_a_5
probability
0
20
40
60
80
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
5
10
15
20
*10^6


Gamma angles distribution
n_a_5
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

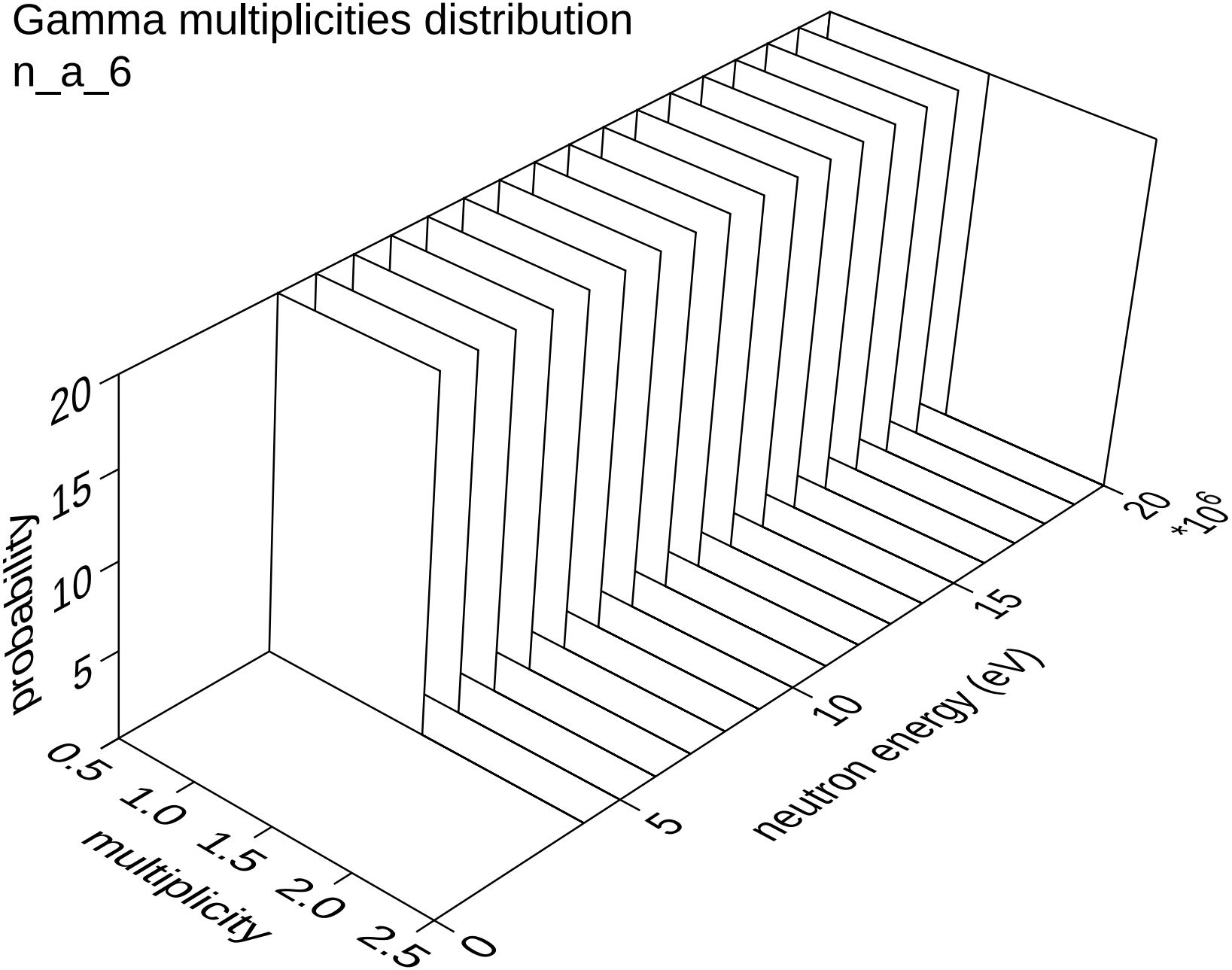
Gamma multiplicities distribution
n_a_5

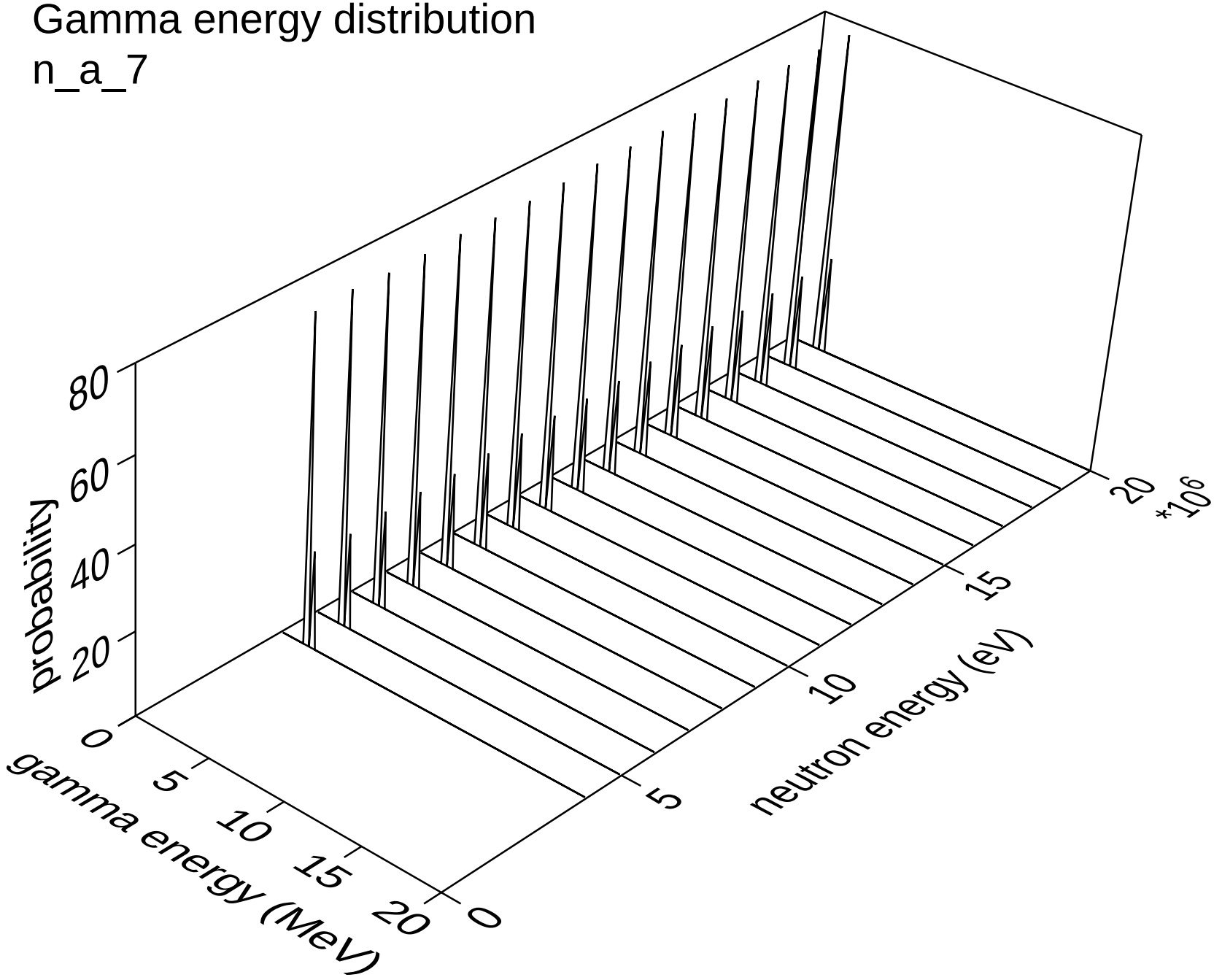


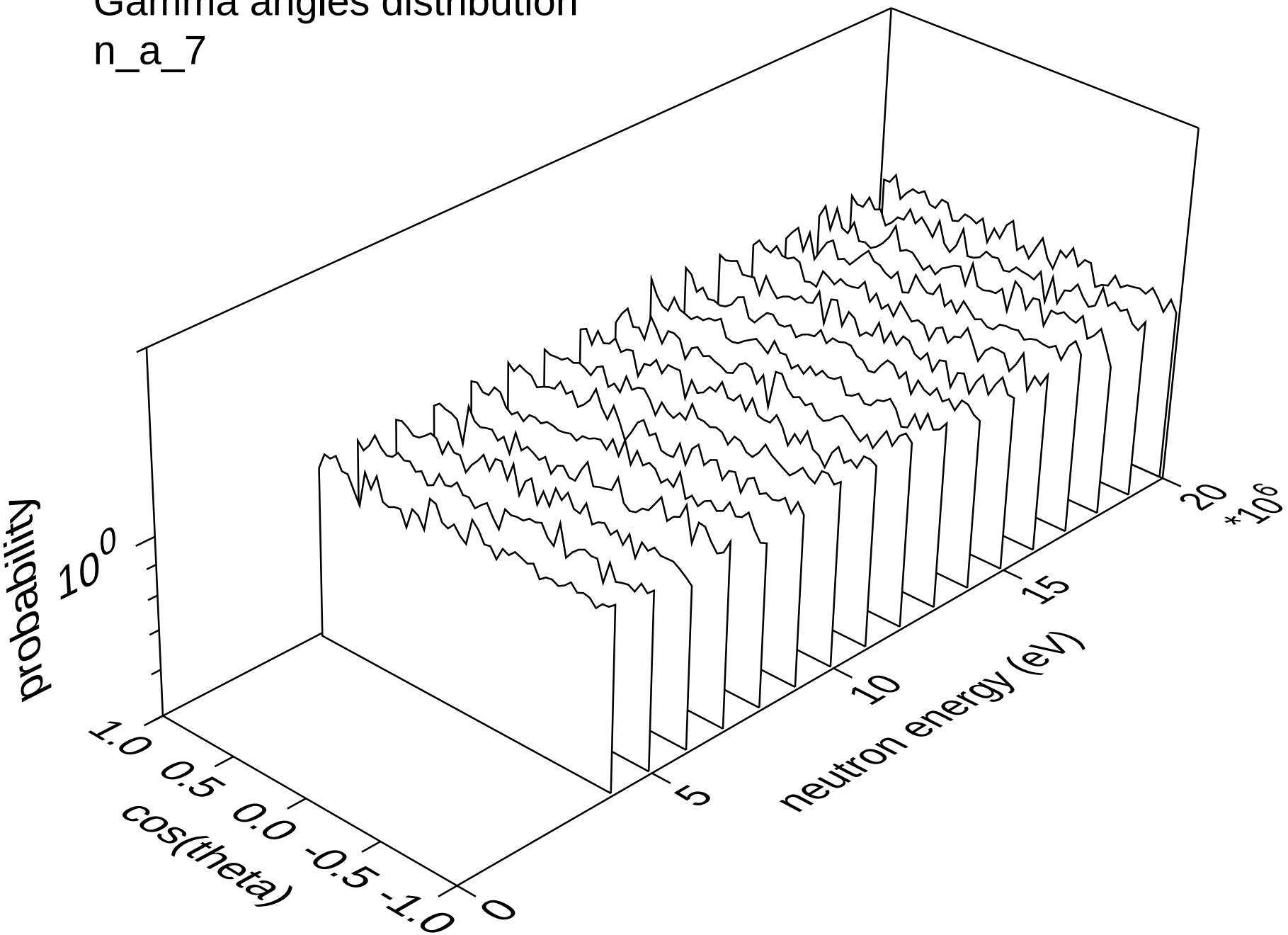

Gamma energy distribution
n_a_6
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_a_6
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

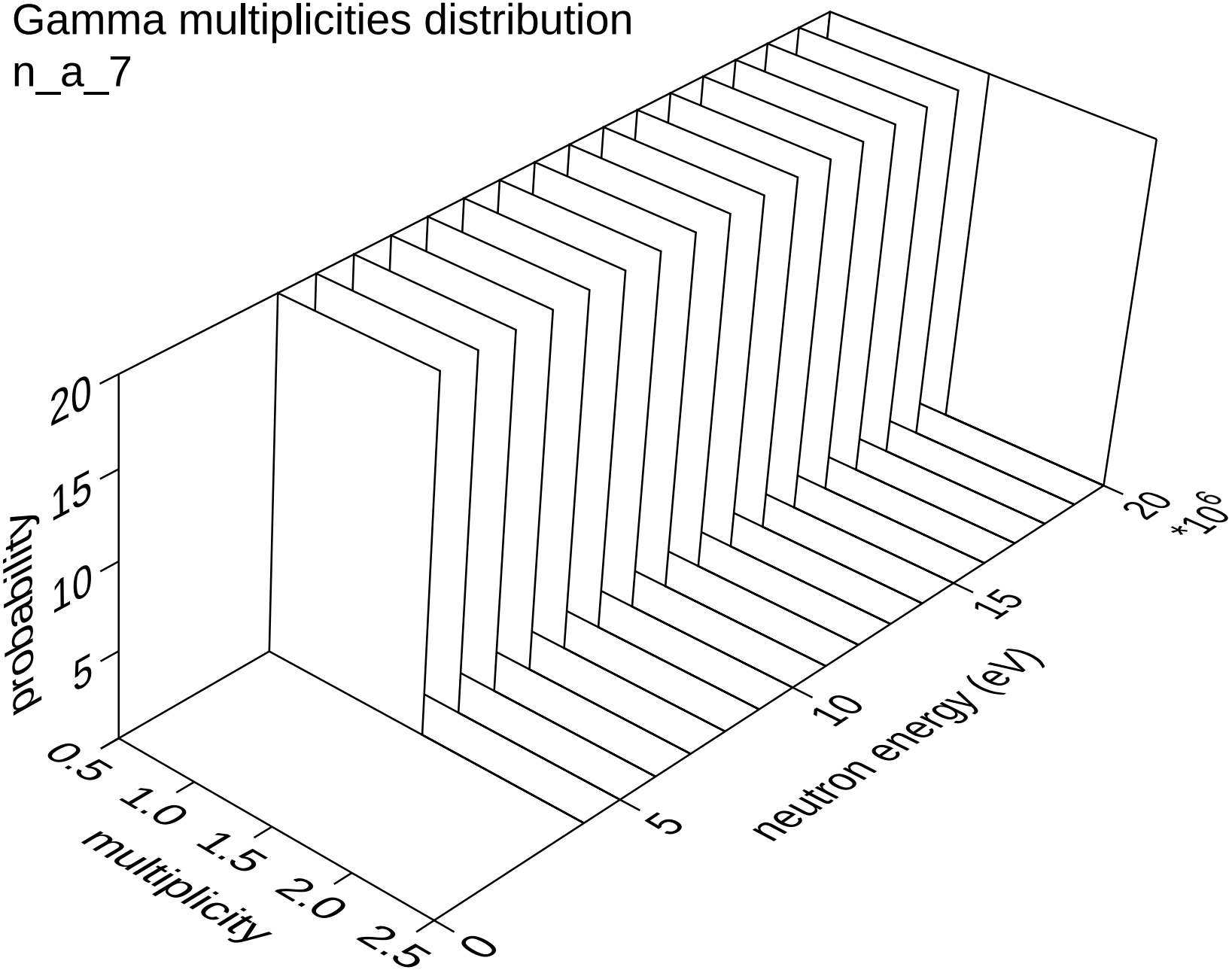
Gamma multiplicities distribution
n_a_6

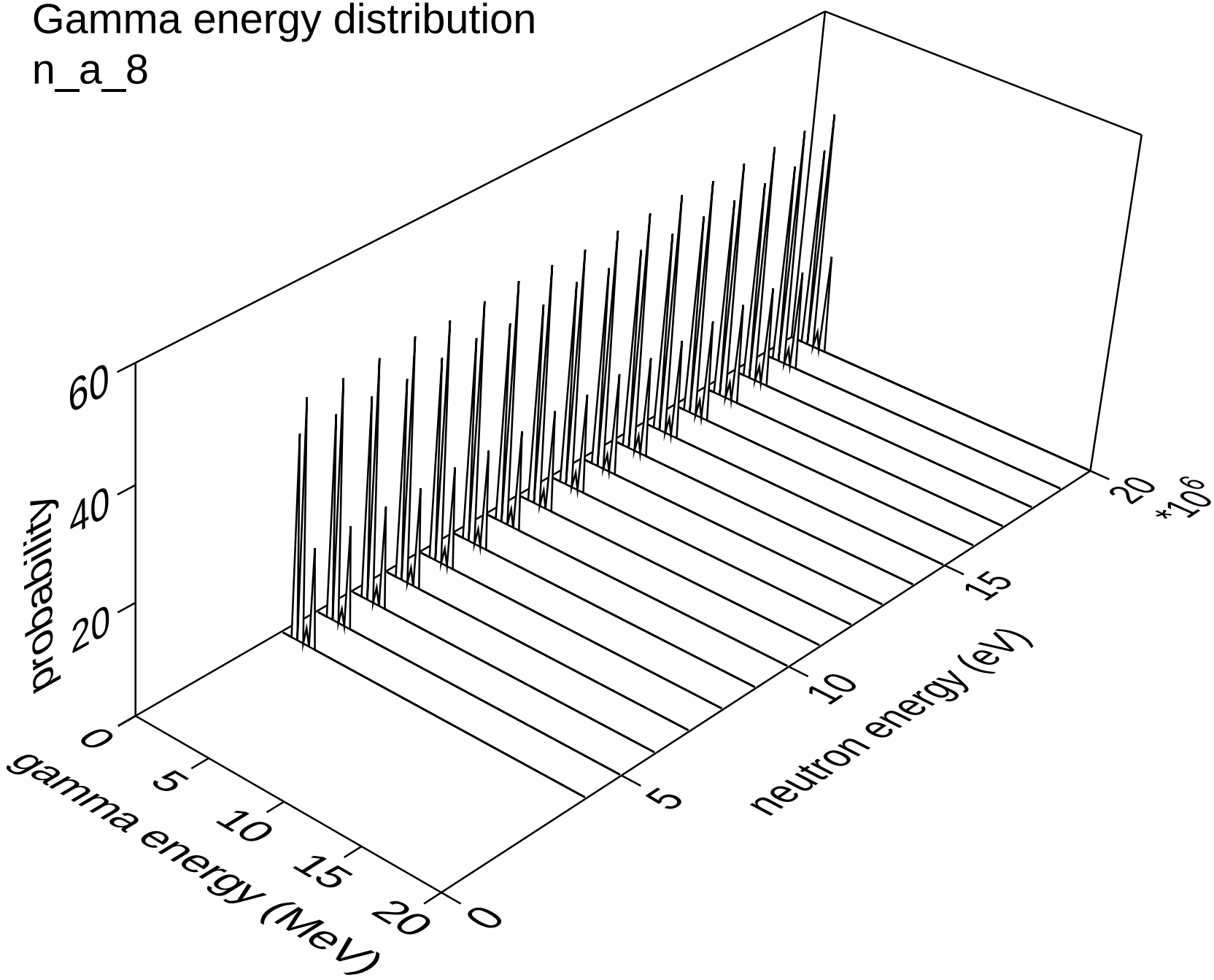


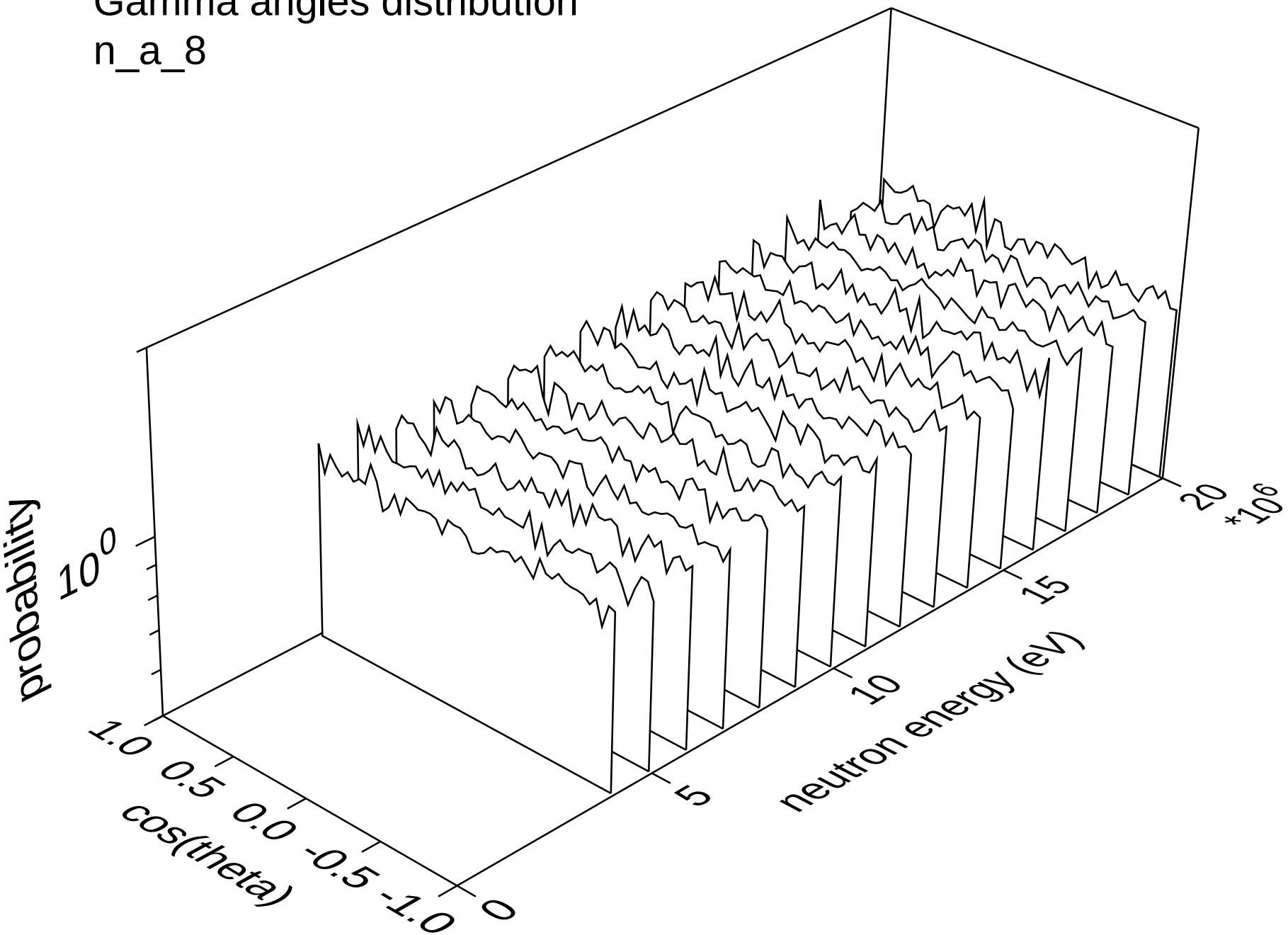

Gamma energy distribution
n_a_7
probability
80
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
5
10
15
20
*10^6


Gamma angles distribution
n_a_7
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

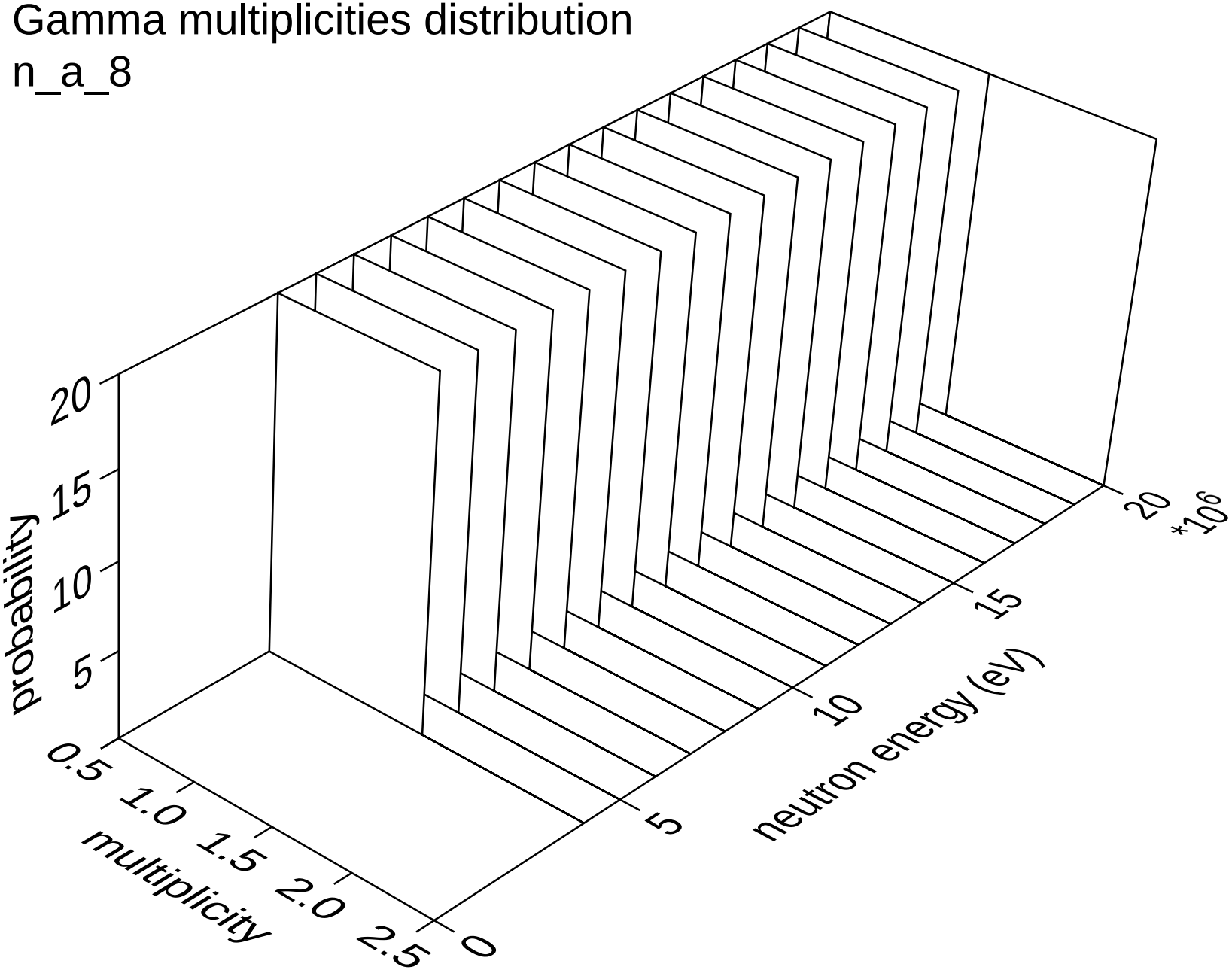
Gamma multiplicities distribution
n_a_7

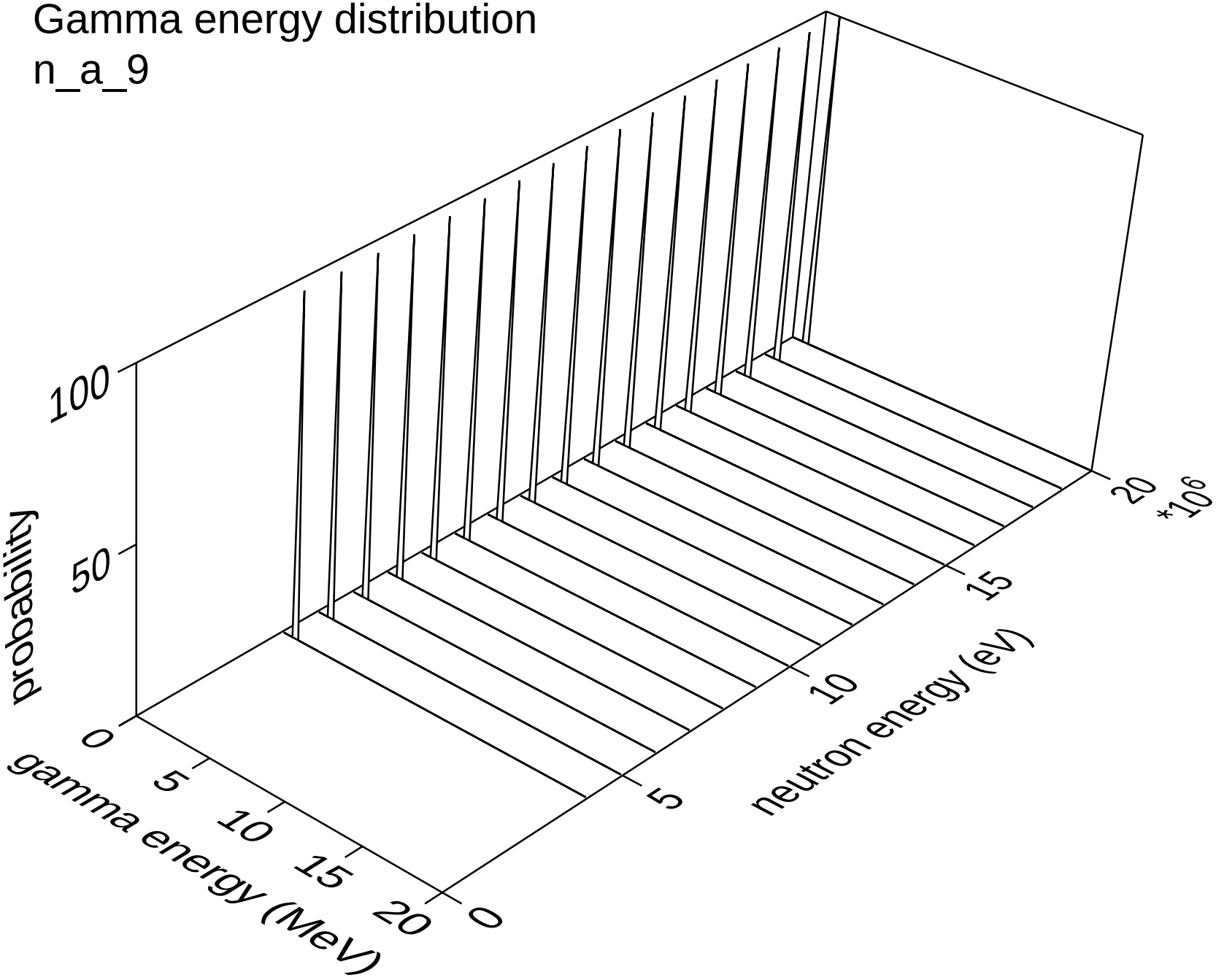


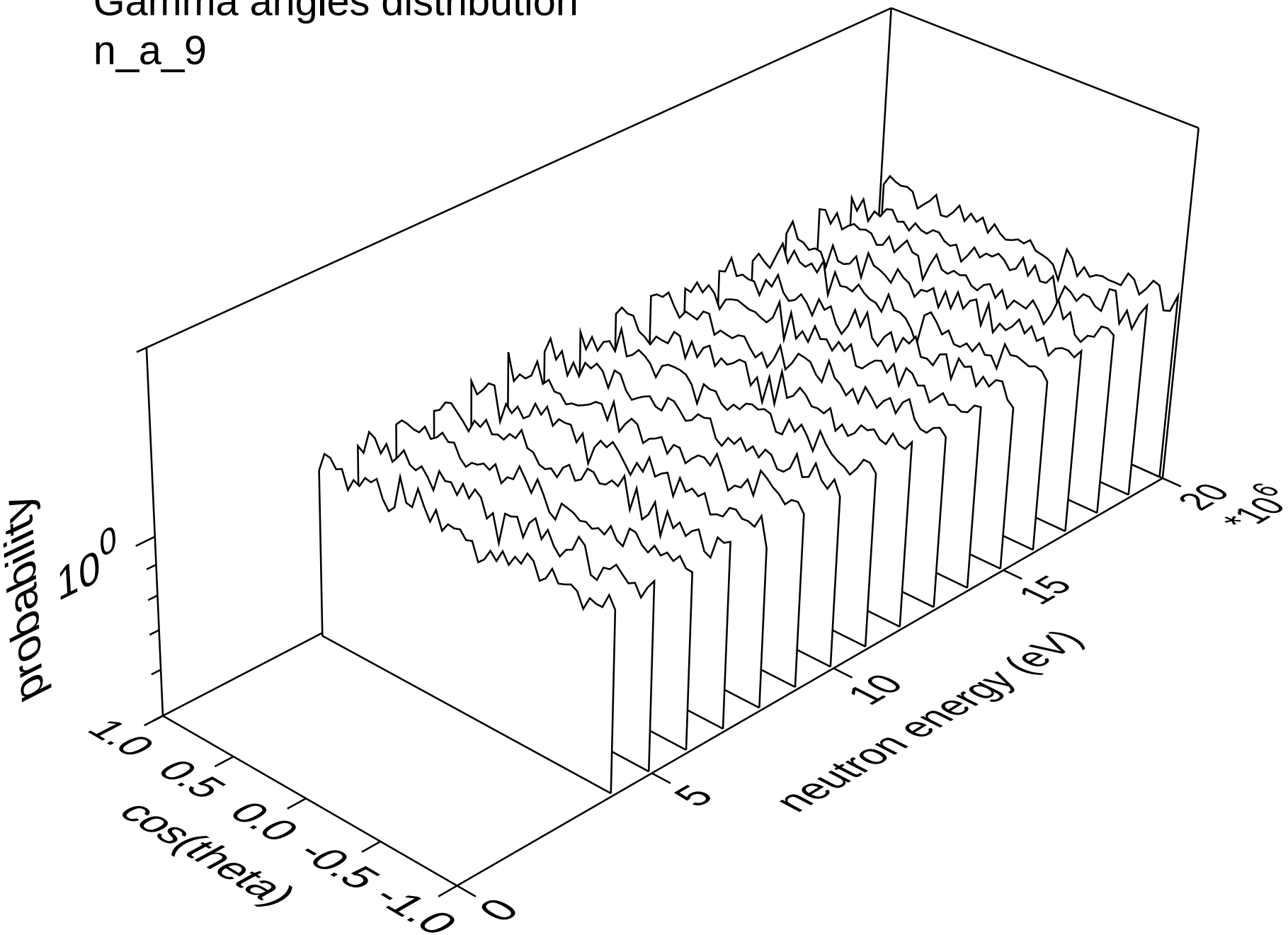
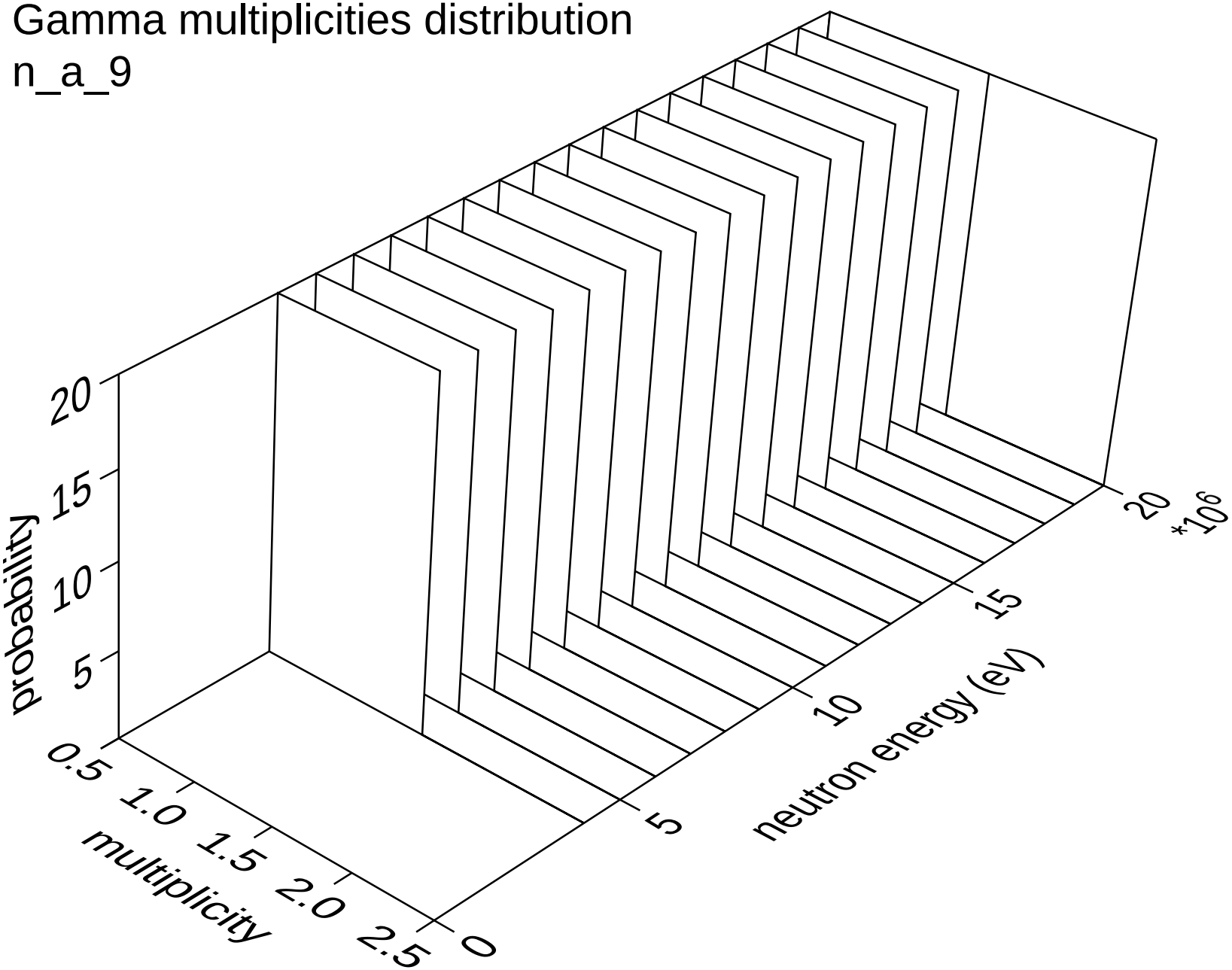

Gamma energy distribution
n_a_8
probability
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_a_8
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

Gamma multiplicities distribution
n_a_8




Gamma energy distribution
n_a_9
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_a_9
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

Gamma multiplicities distribution
n_a_9