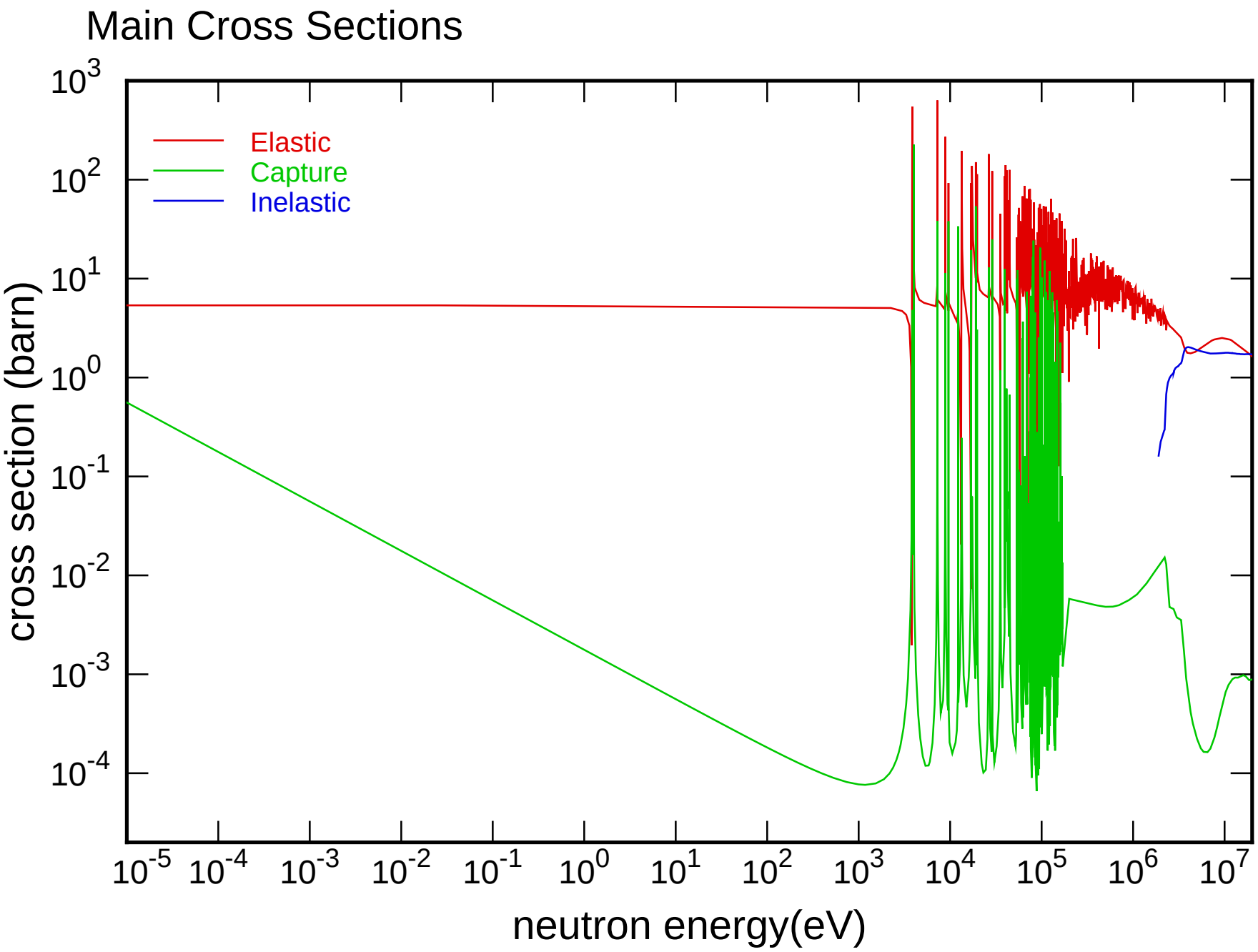
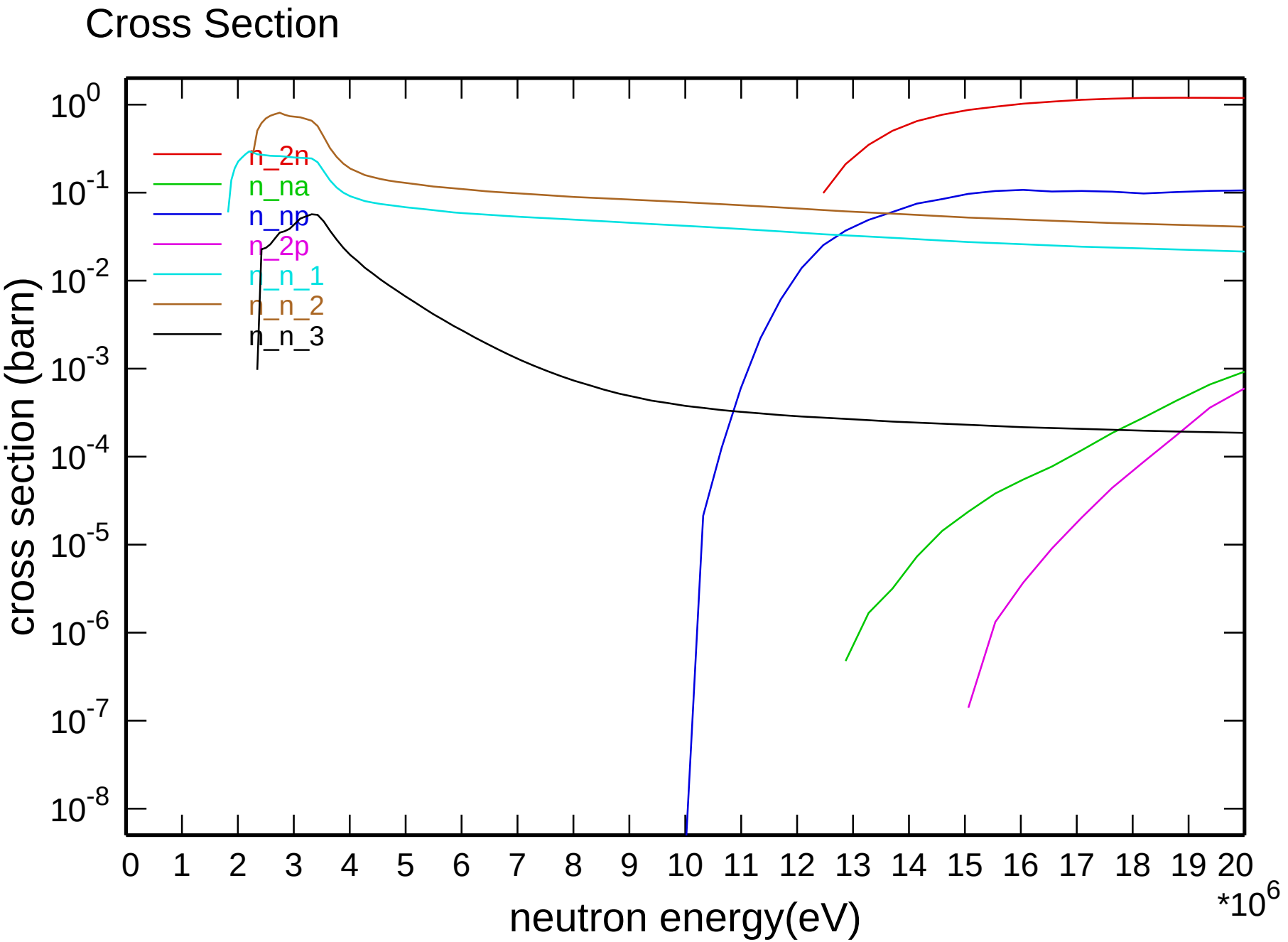
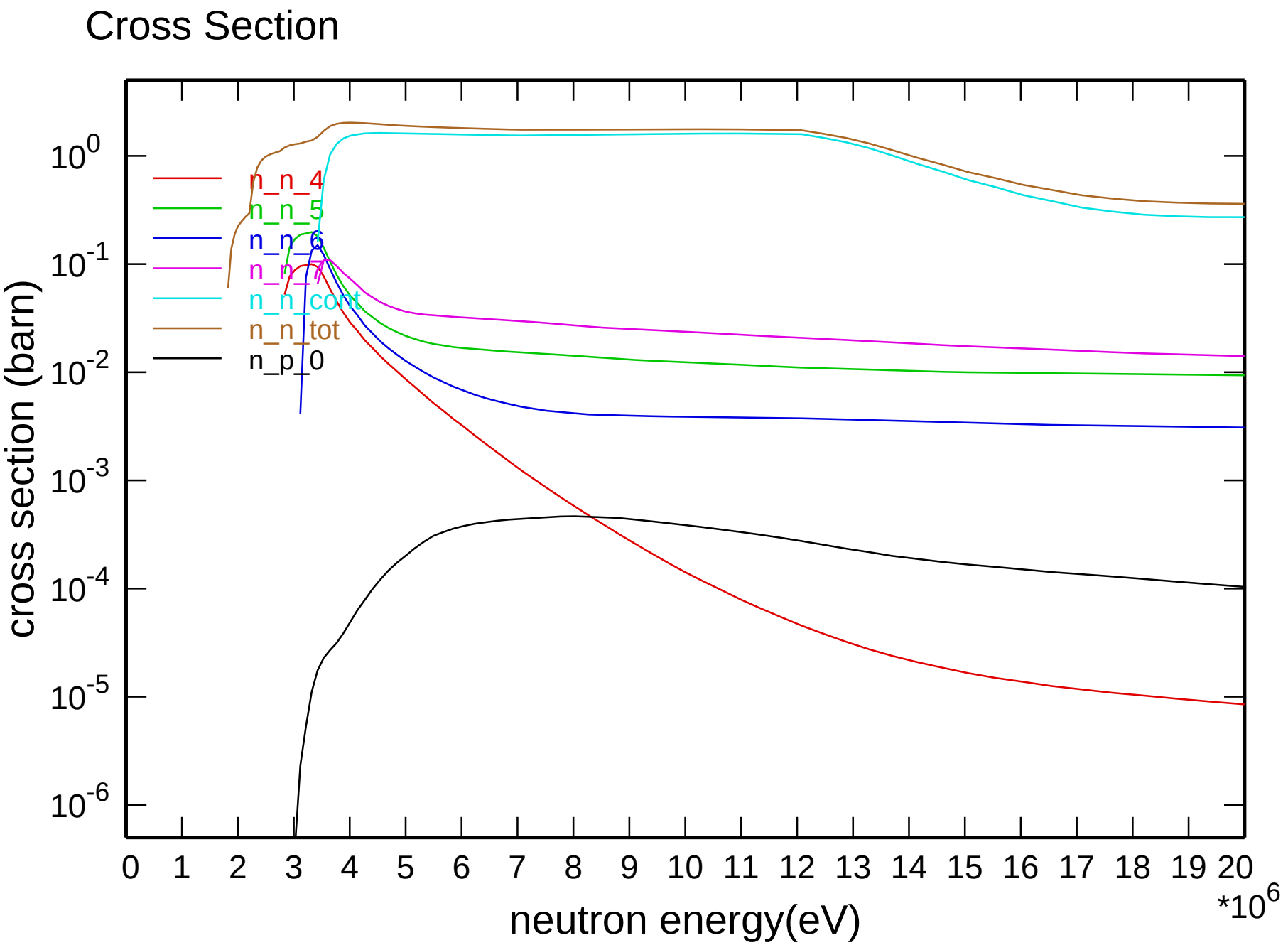
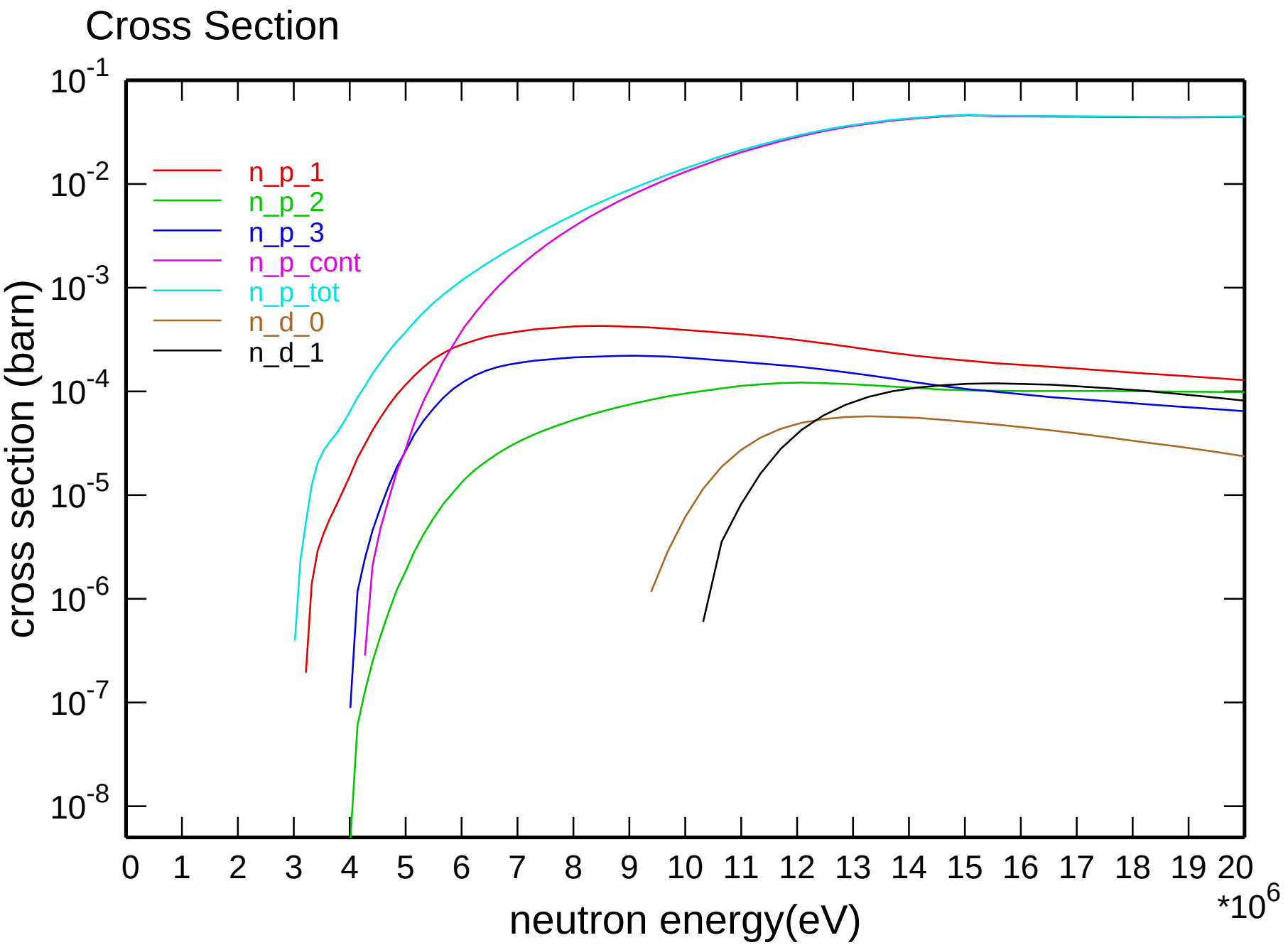
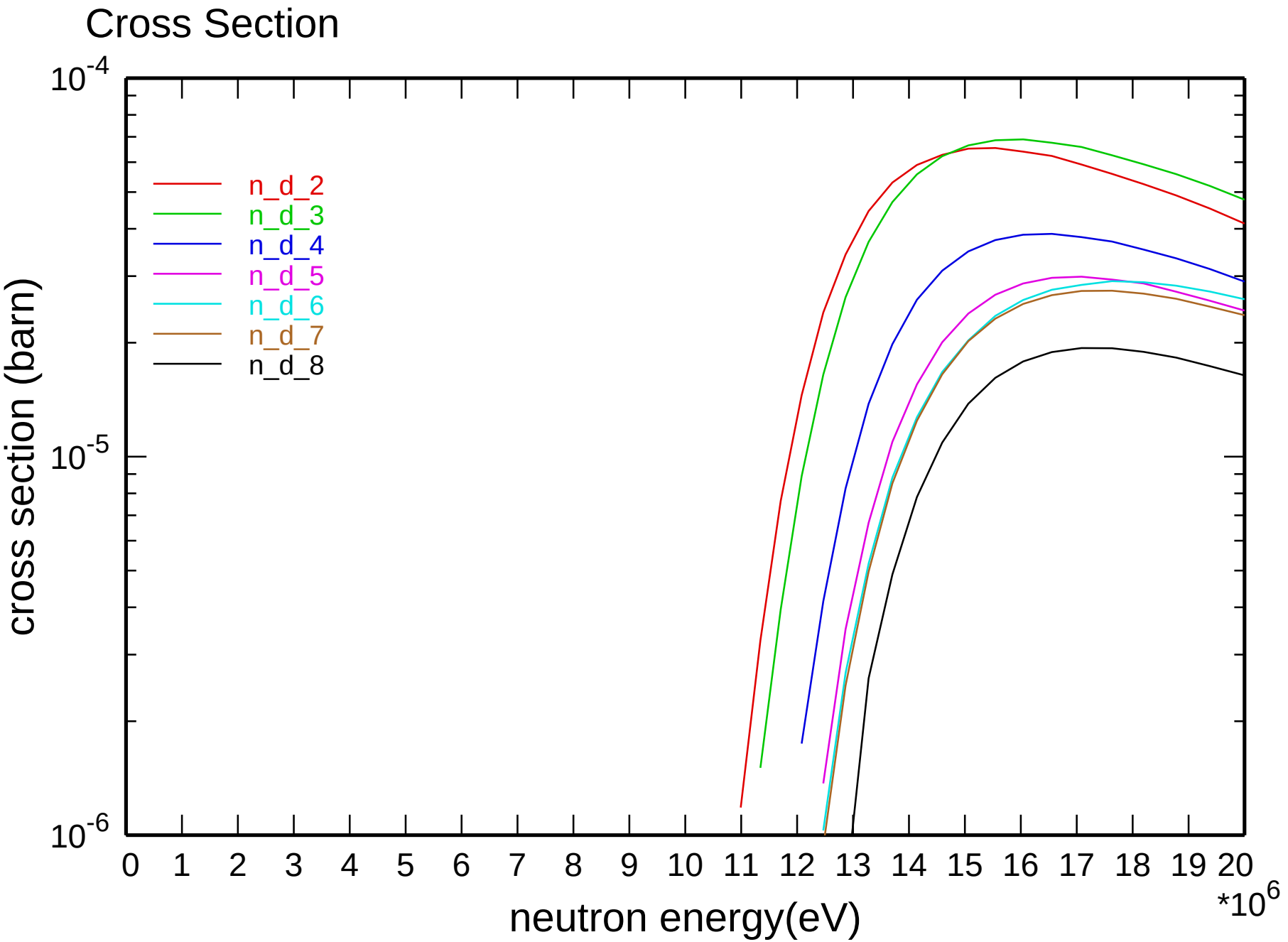
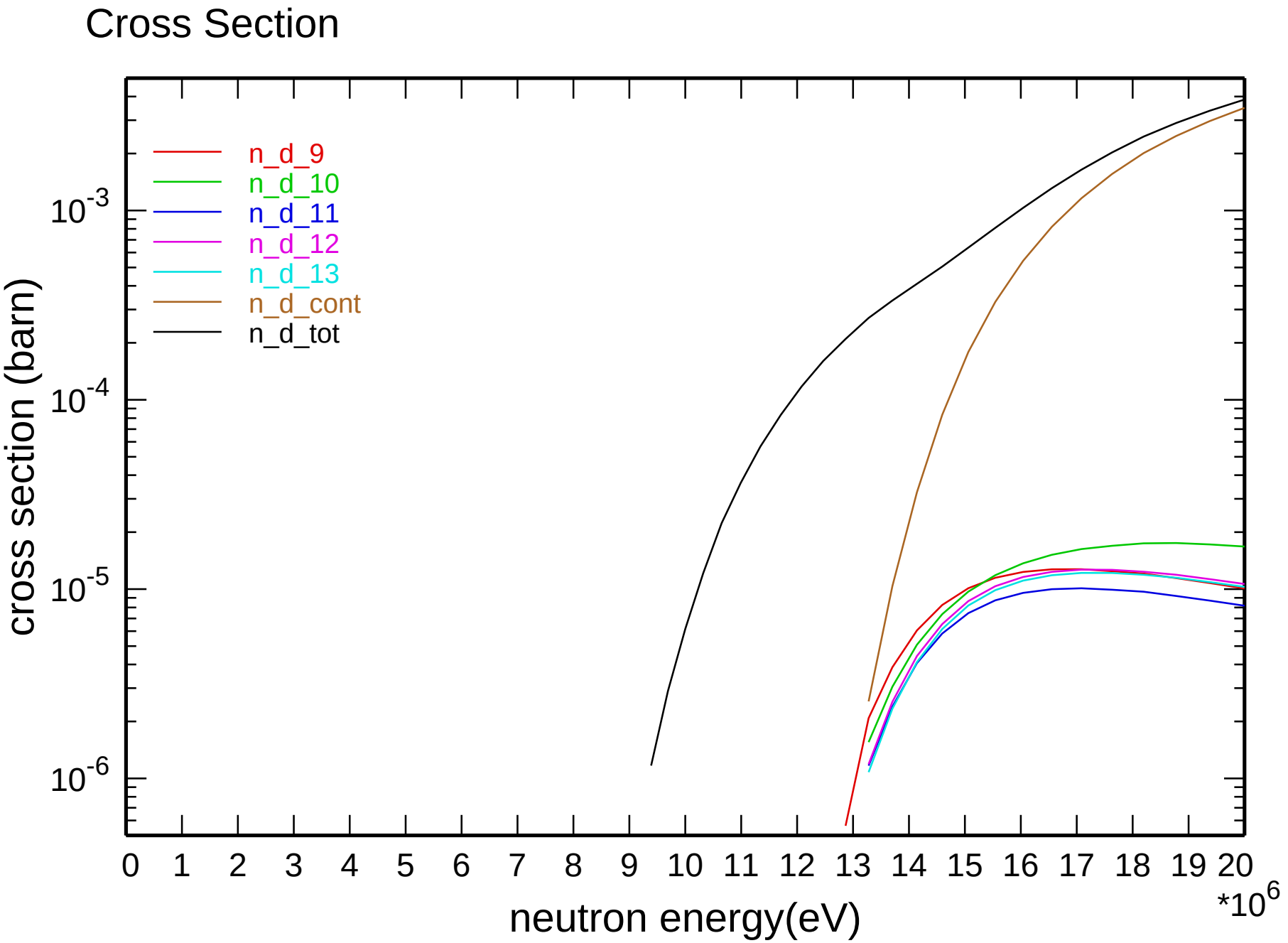

Main Cross Sections
Elastic
Capture
Inelastic
cross section (barn)
neutron energy(eV)
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1
10^2
10^3
10^4
10^5
10^6
10^7

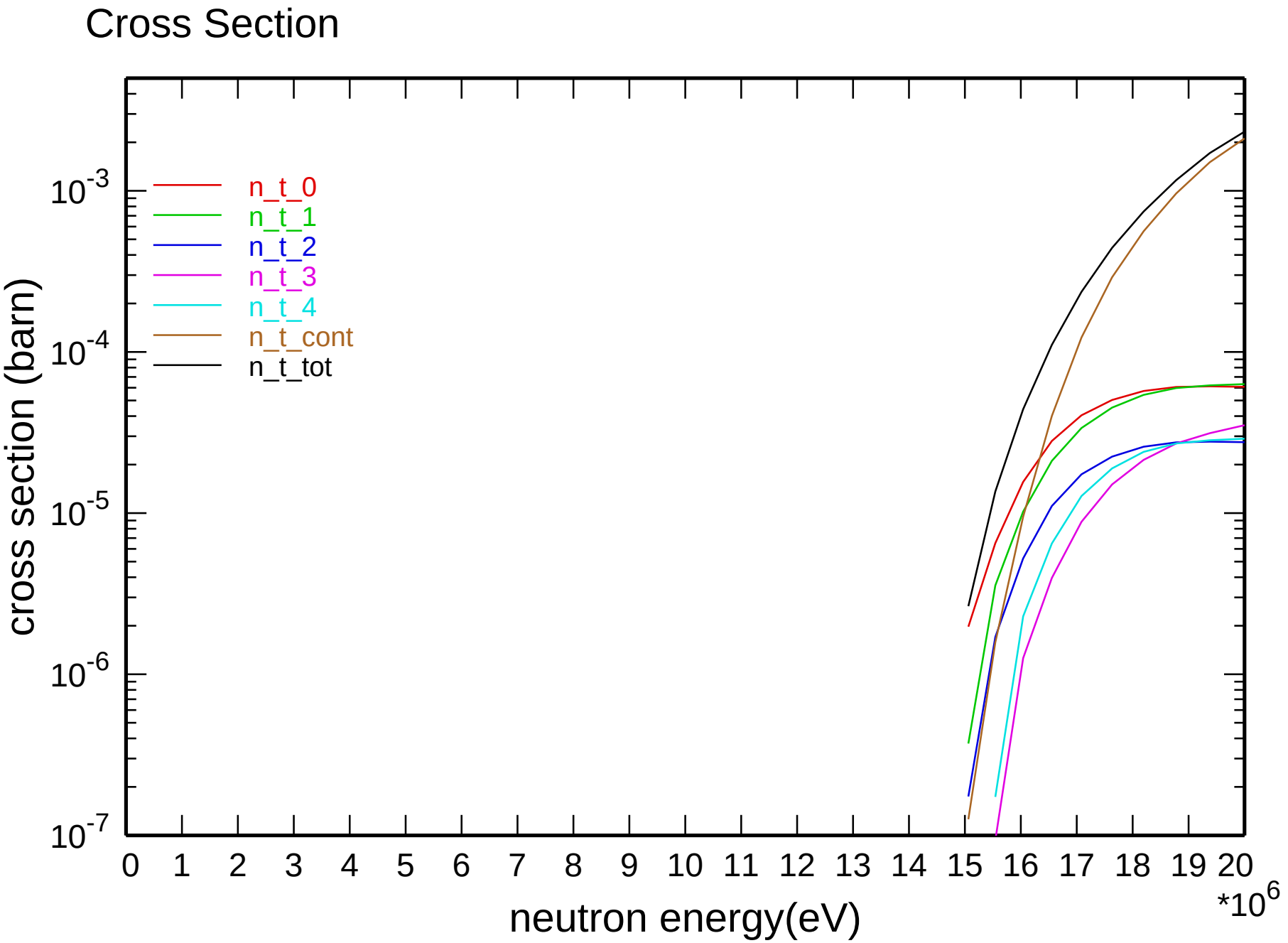

Cross Section
cross section (barn)
neutron energy(eV)
*10^6
n_2n
n_na
n_np
n_2p
n_n_1
n_n_2
n_n_3

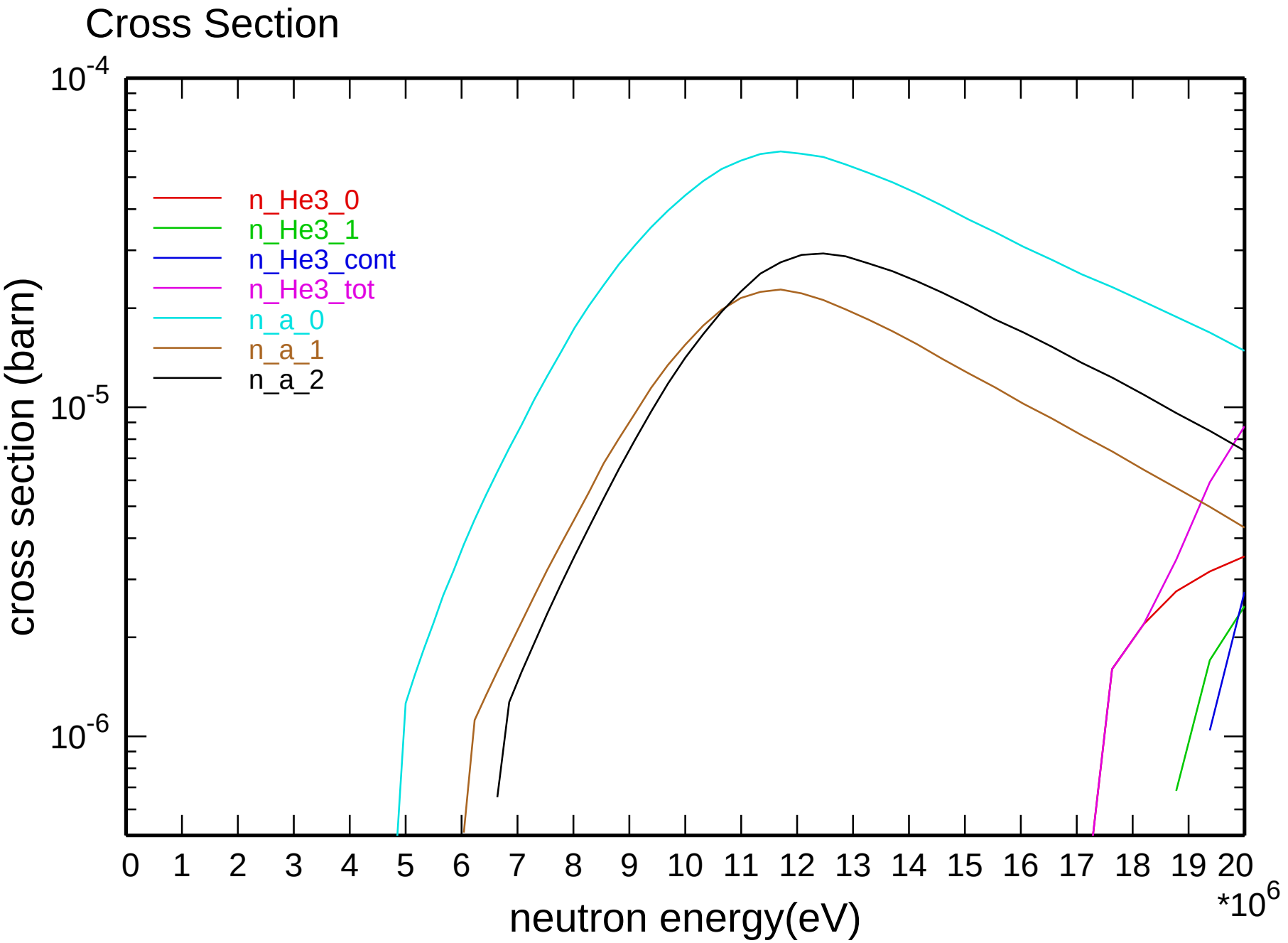

Cross Section
cross section (barn)
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-6}
n_n_4
n_n_5
n_n_6
n_n_7
n_n_cont
n_n_tot
n_p_0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^{6}
neutron energy(eV)

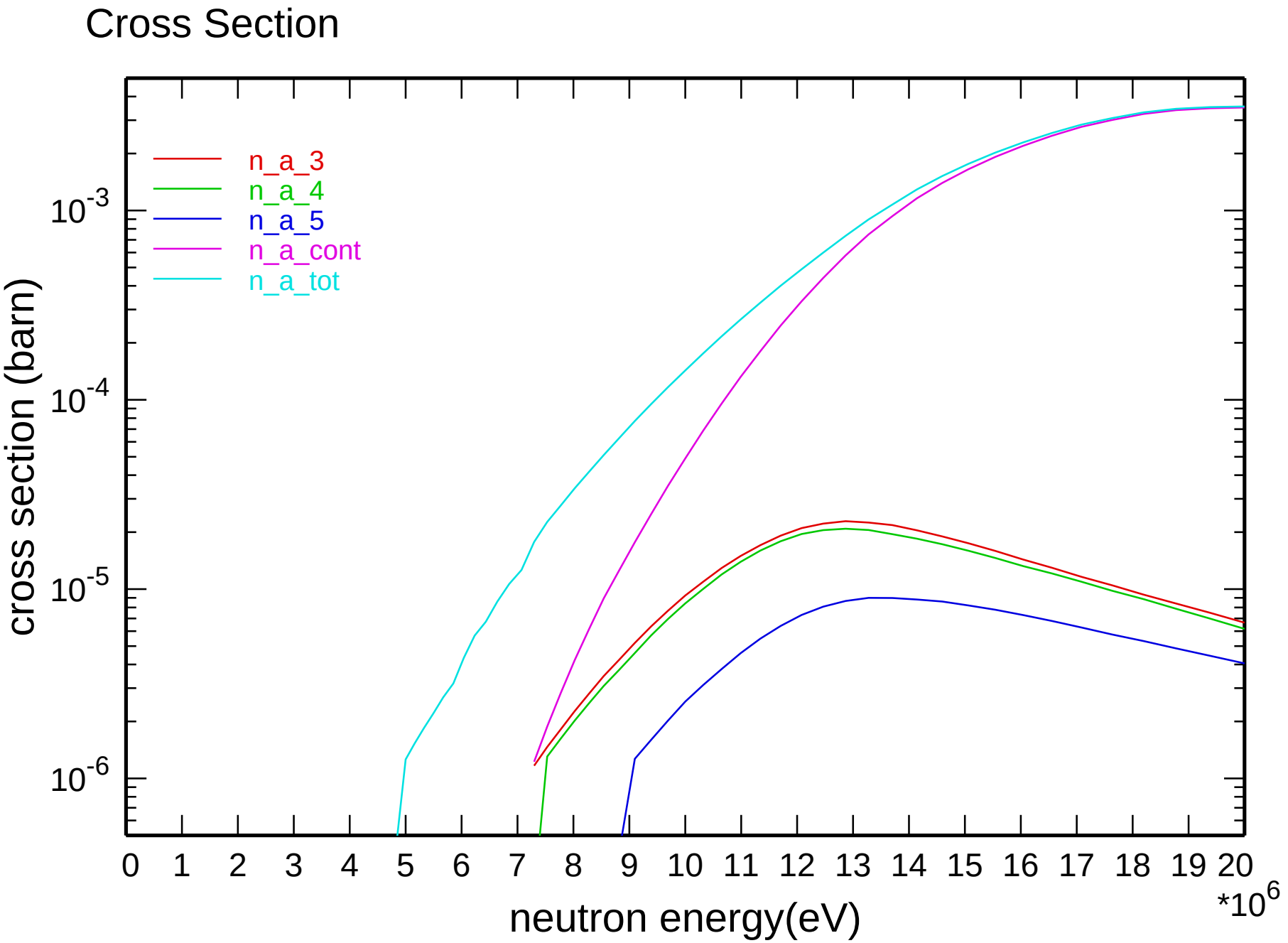

Cross Section
cross section (barn)
neutron energy(eV)
*10^6
n_p_1
n_p_2
n_p_3
n_p_cont
n_p_tot
n_d_0
n_d_1
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
10^-7
10^-8
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

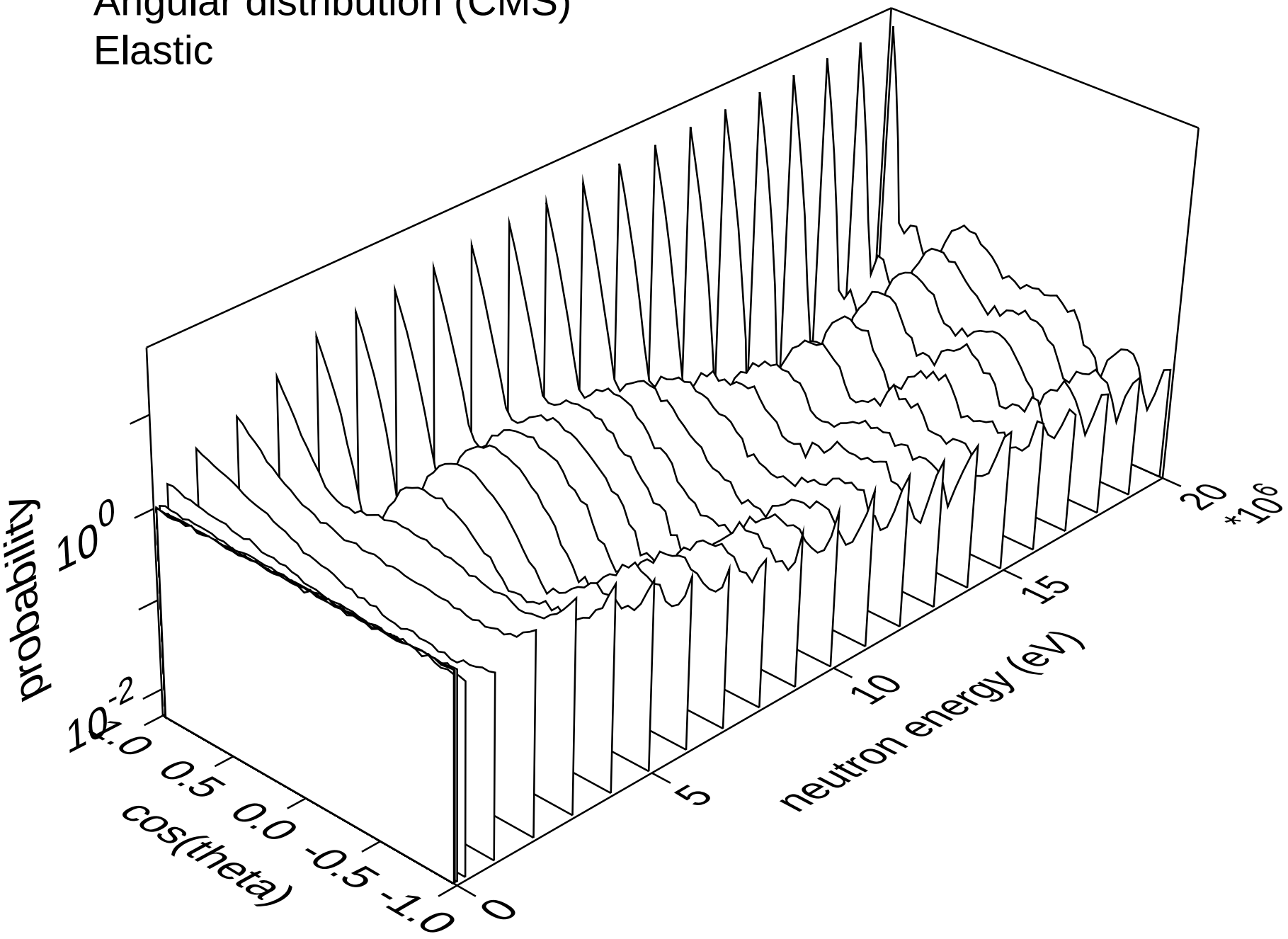

Cross Section
cross section (barn)
10-4
10-5
10-6
n_d_2
n_d_3
n_d_4
n_d_5
n_d_6
n_d_7
n_d_8
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^6
neutron energy(eV)

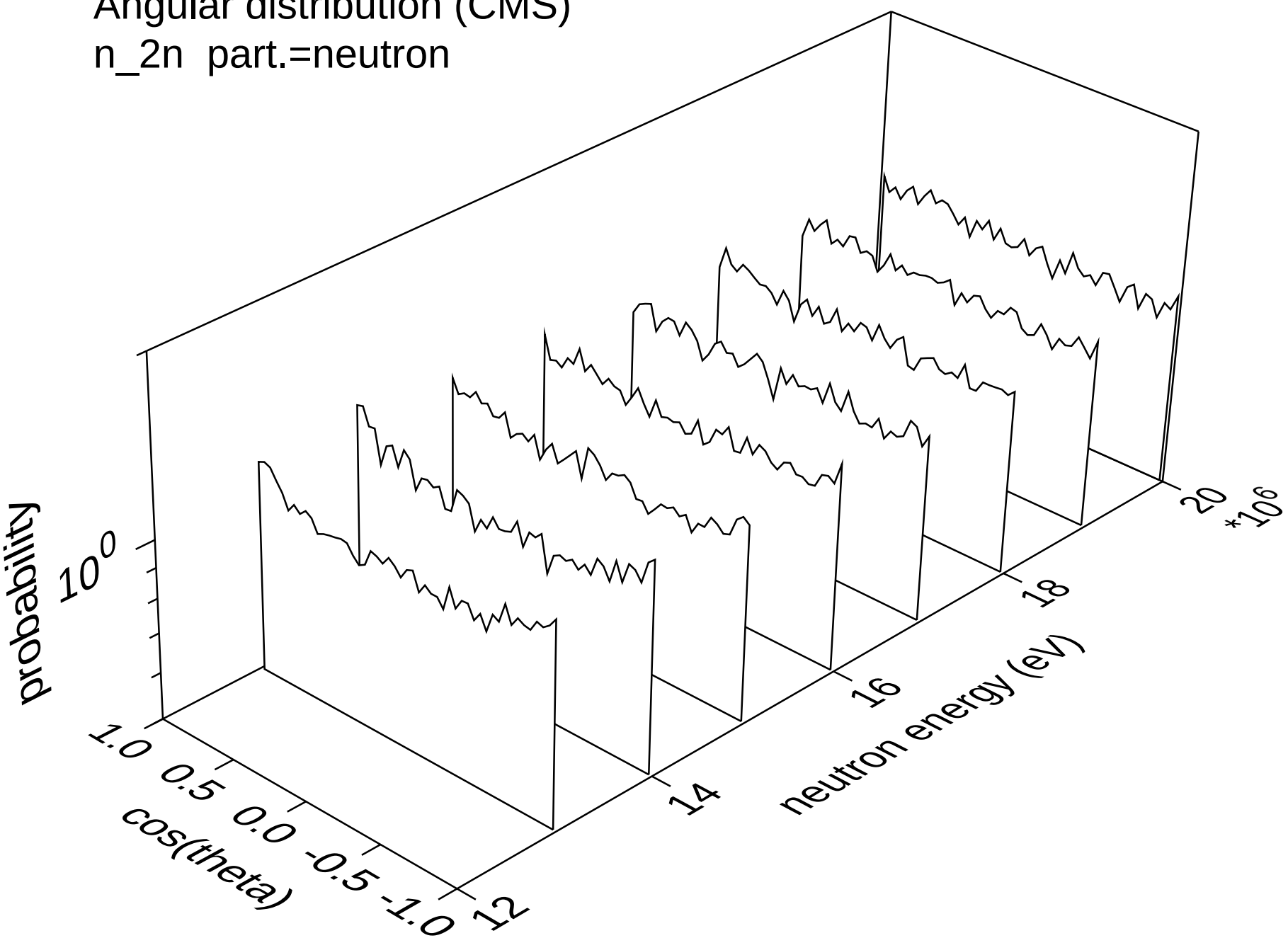

Cross Section
n_d_9
n_d_10
n_d_11
n_d_12
n_d_13
n_d_cont
n_d_tot
cross section (barn)
10-3
10-4
10-5
10-6
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^6
neutron energy(eV)

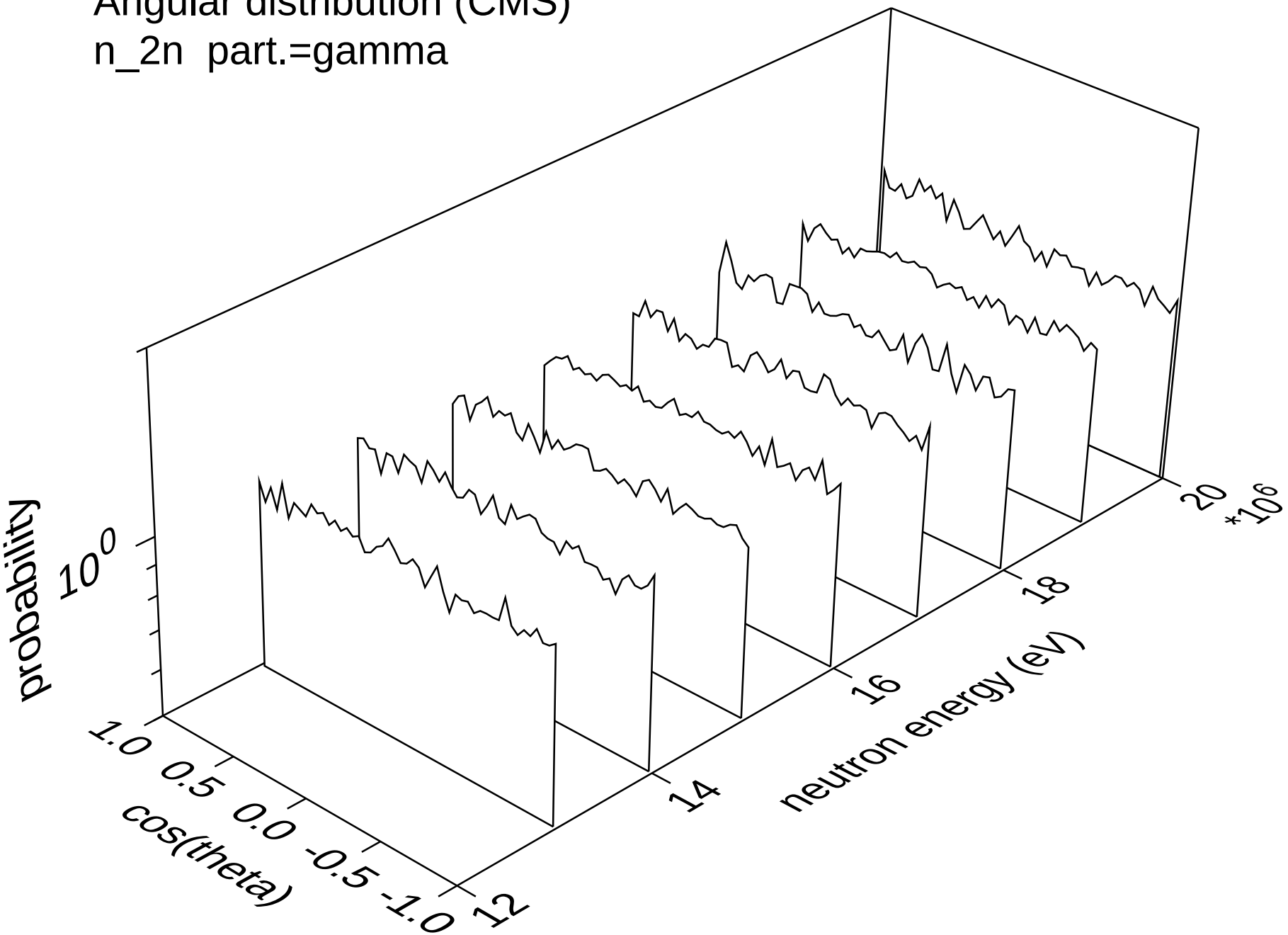

Cross Section
cross section (barn)
10-3
10-4
10-5
10-6
10-7
n_t_0
n_t_1
n_t_2
n_t_3
n_t_4
n_t_cont
n_t_tot
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^6
neutron energy(eV)

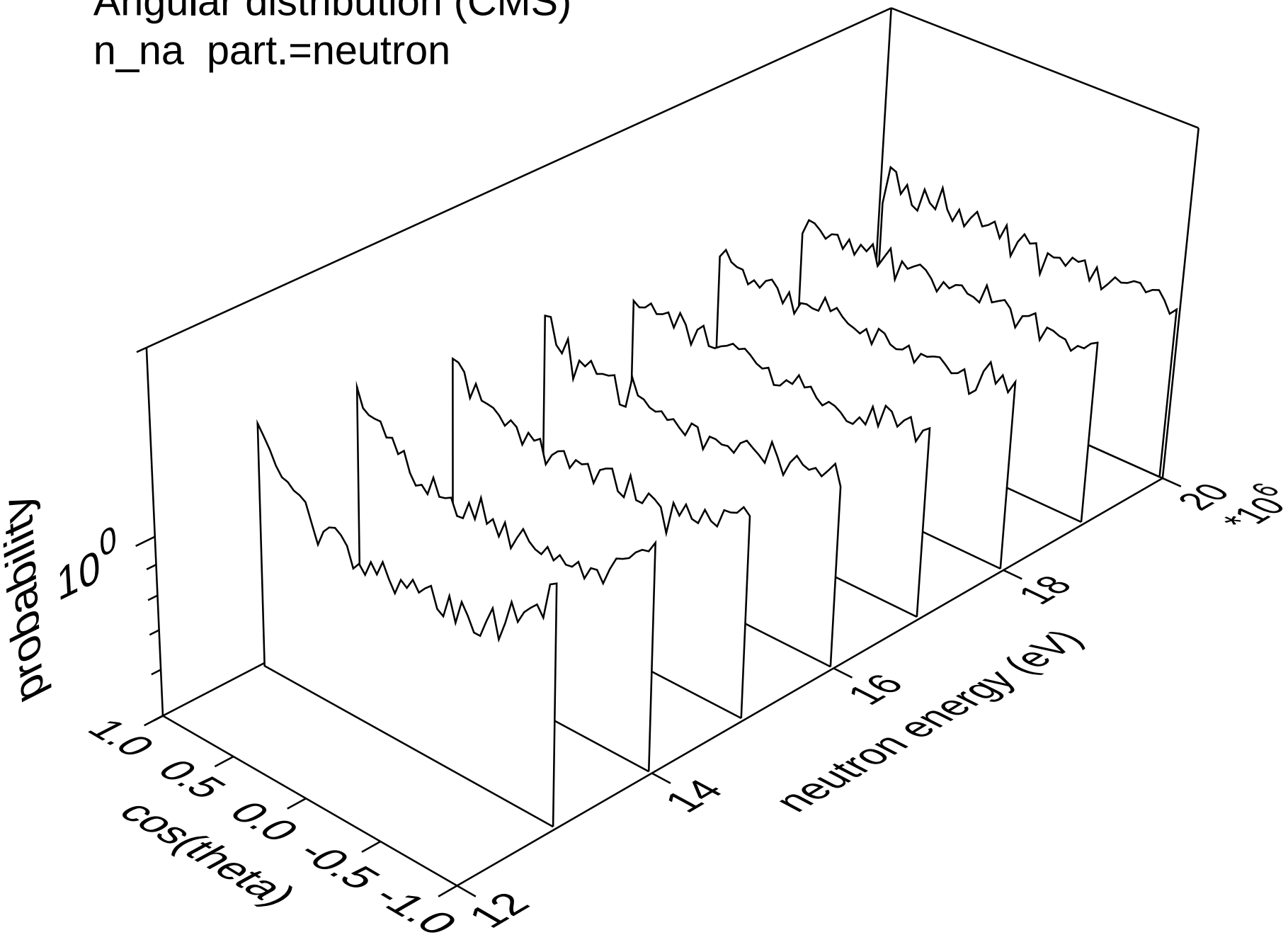

Cross Section
cross section (barn)
10-4
10-5
10-6
n_He3_0
n_He3_1
n_He3_cont
n_He3_tot
n_a_0
n_a_1
n_a_2
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^6
neutron energy(eV)

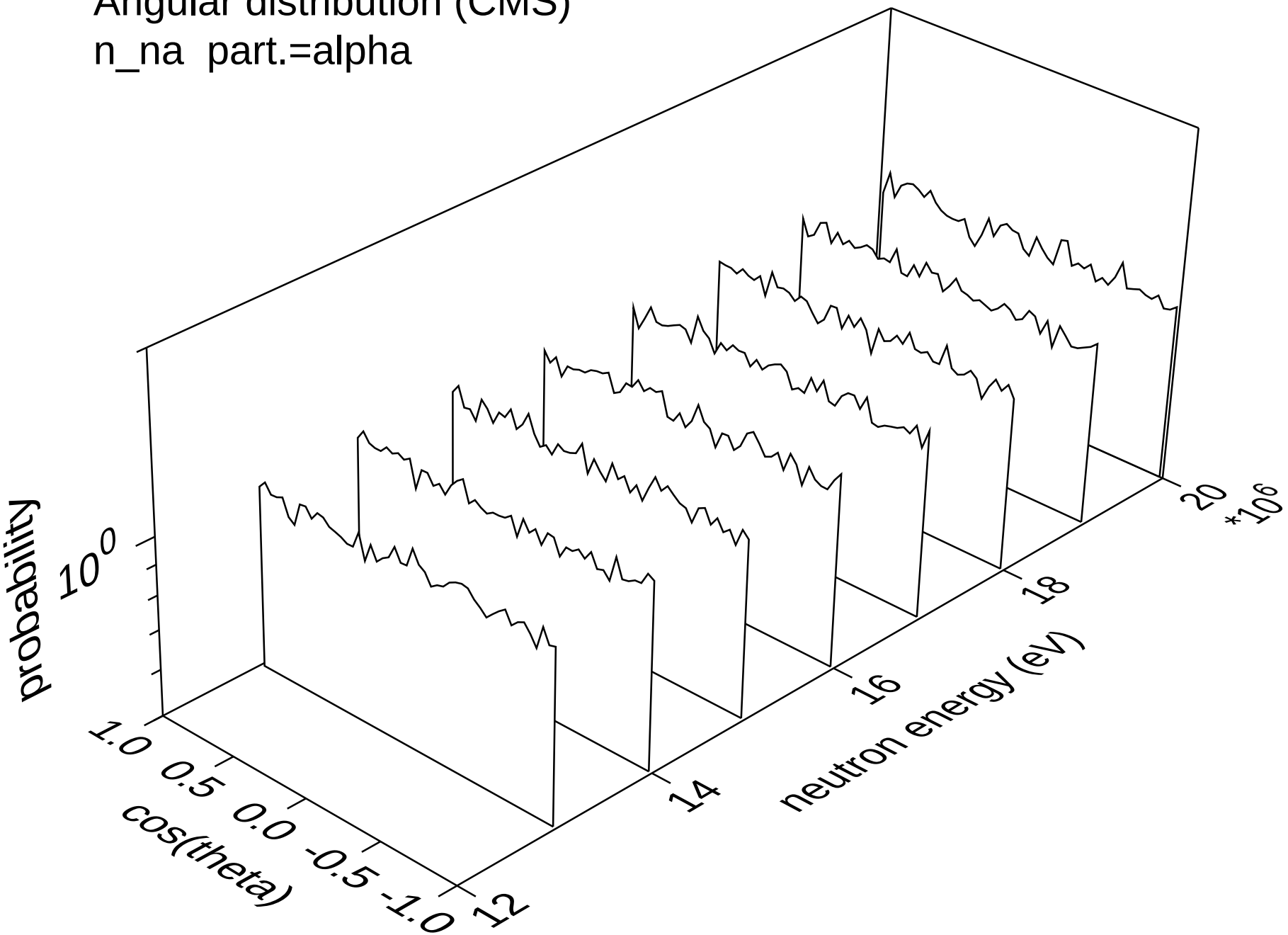

Cross Section
n_a_3
n_a_4
n_a_5
n_a_cont
n_a_tot
cross section (barn)
10-3
10-4
10-5
10-6
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^6
neutron energy(eV)

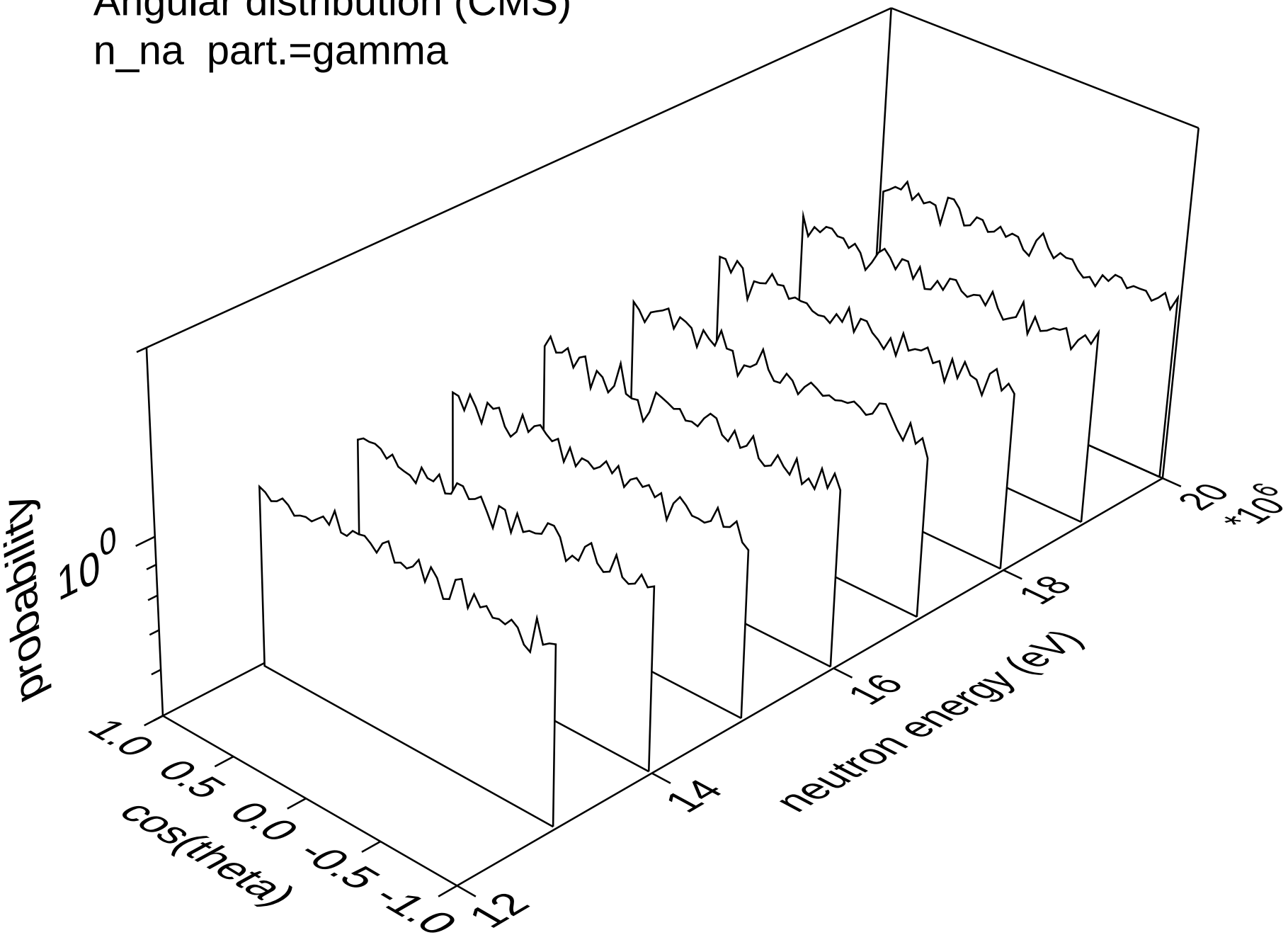

Angular distribution (CMS)
Elastic
probability
10^{0}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
neutron energy (eV)
*10^6

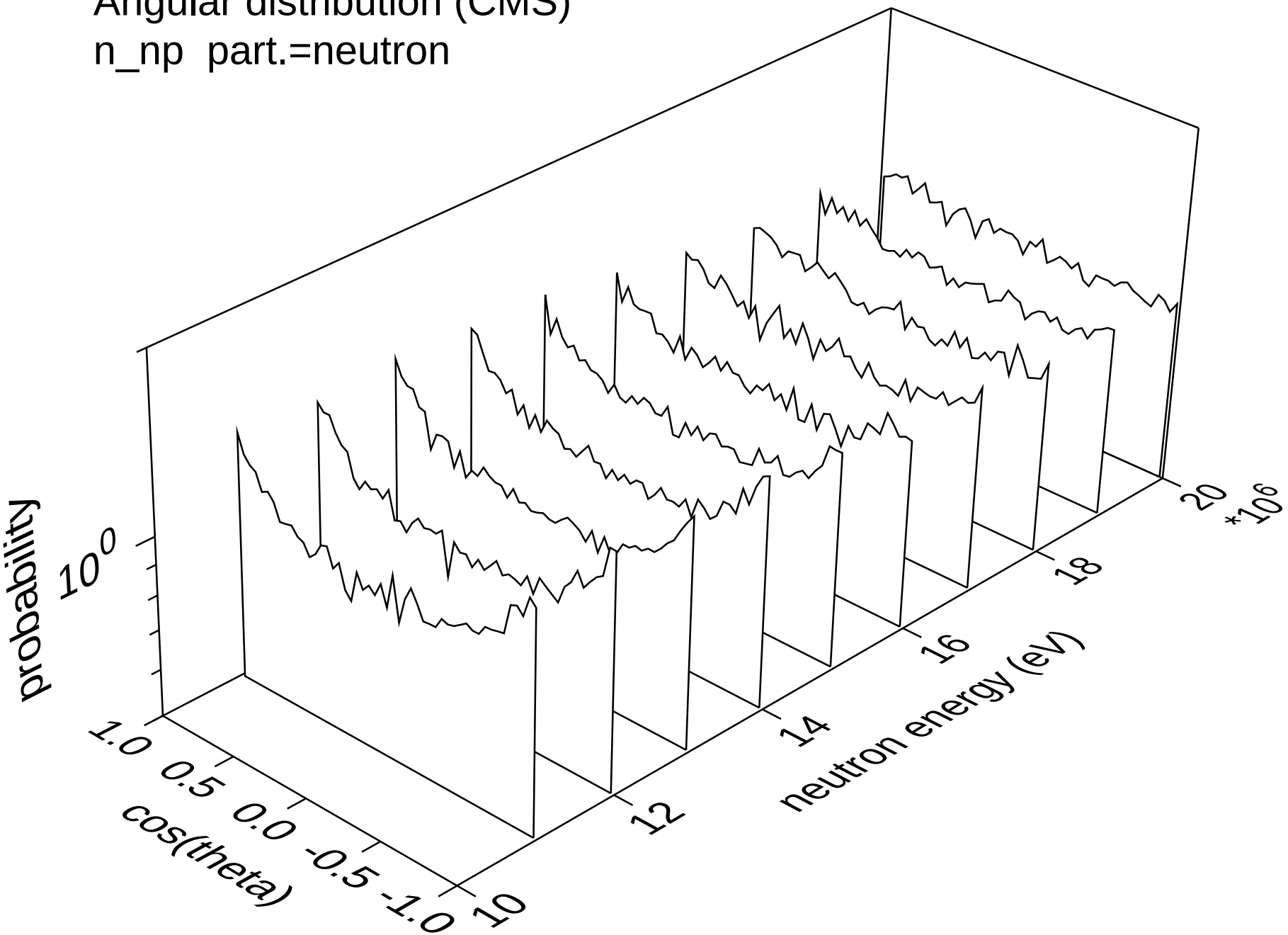

Angular distribution (CMS)
n_2n part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
12
14
16
18
20
*10^6
neutron energy (eV)

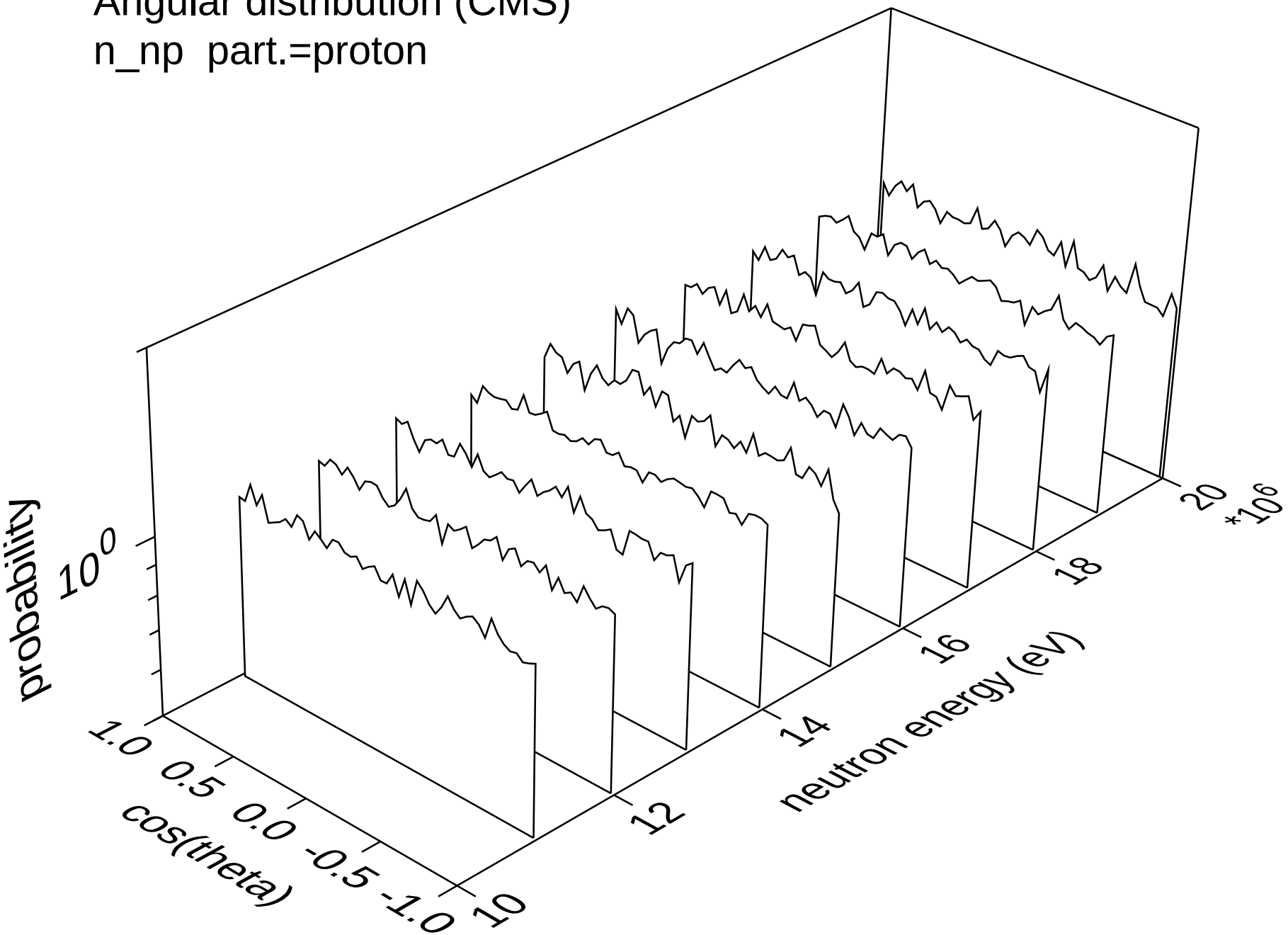

Angular distribution (CMS)
n_2n part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
12
14
16
18
20
*10^6
neutron energy (eV)

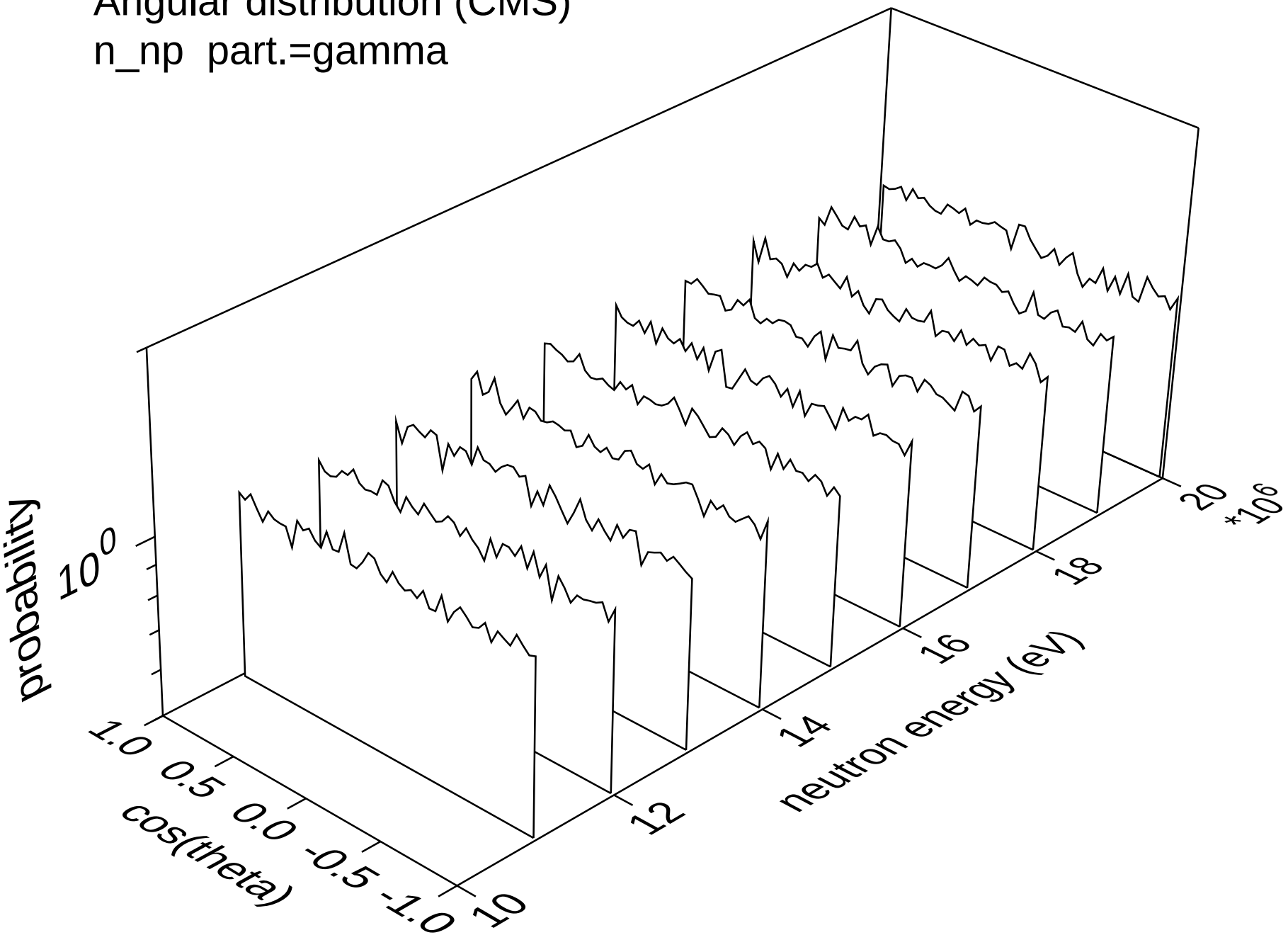

Angular distribution (CMS)
n_na part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
12
14
16
18
20
*10^6
neutron energy (eV)

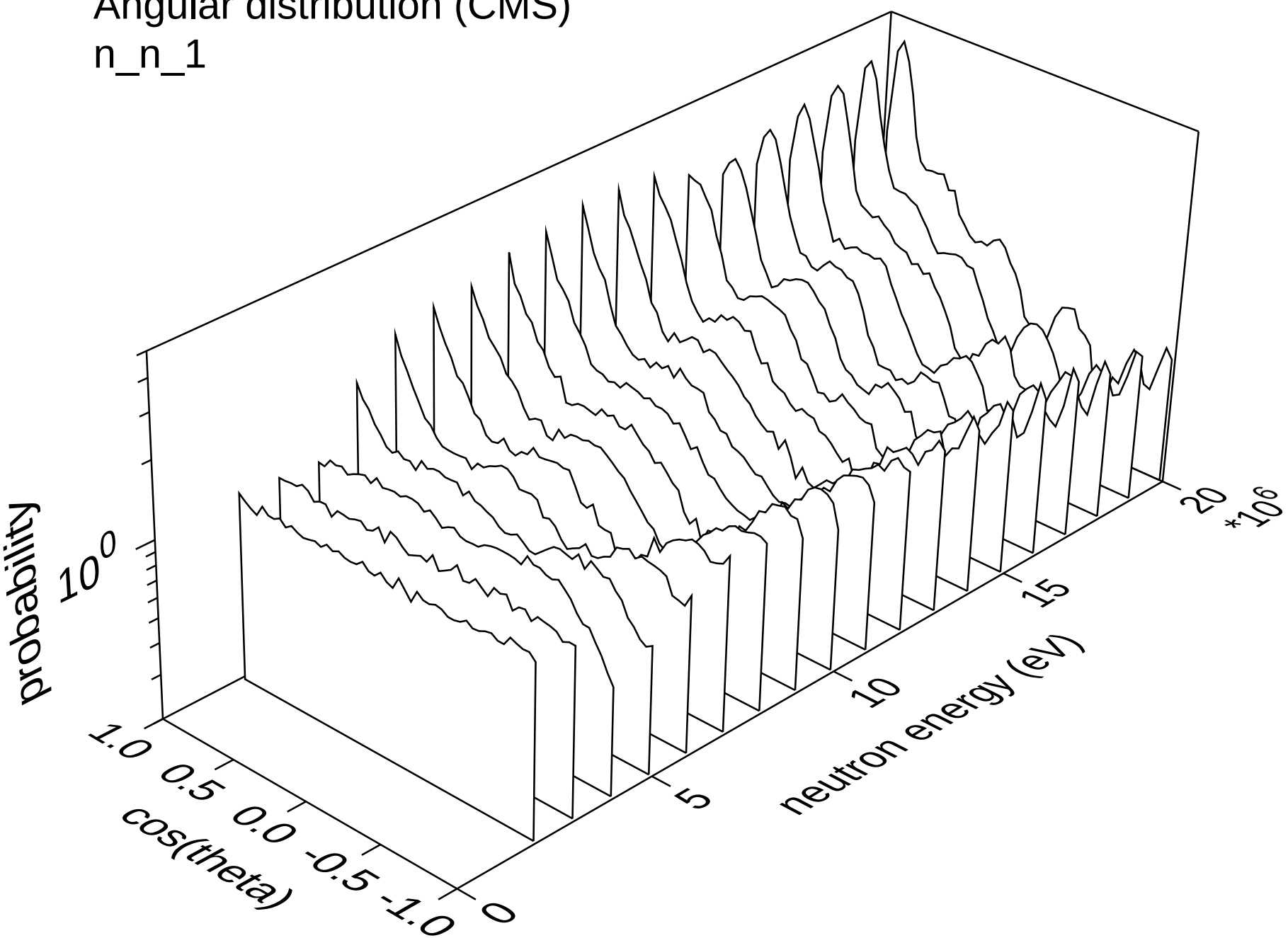

Angular distribution (CMS)
n_na part.=alpha
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
12
14
16
18
20
*10^6
neutron energy (eV)

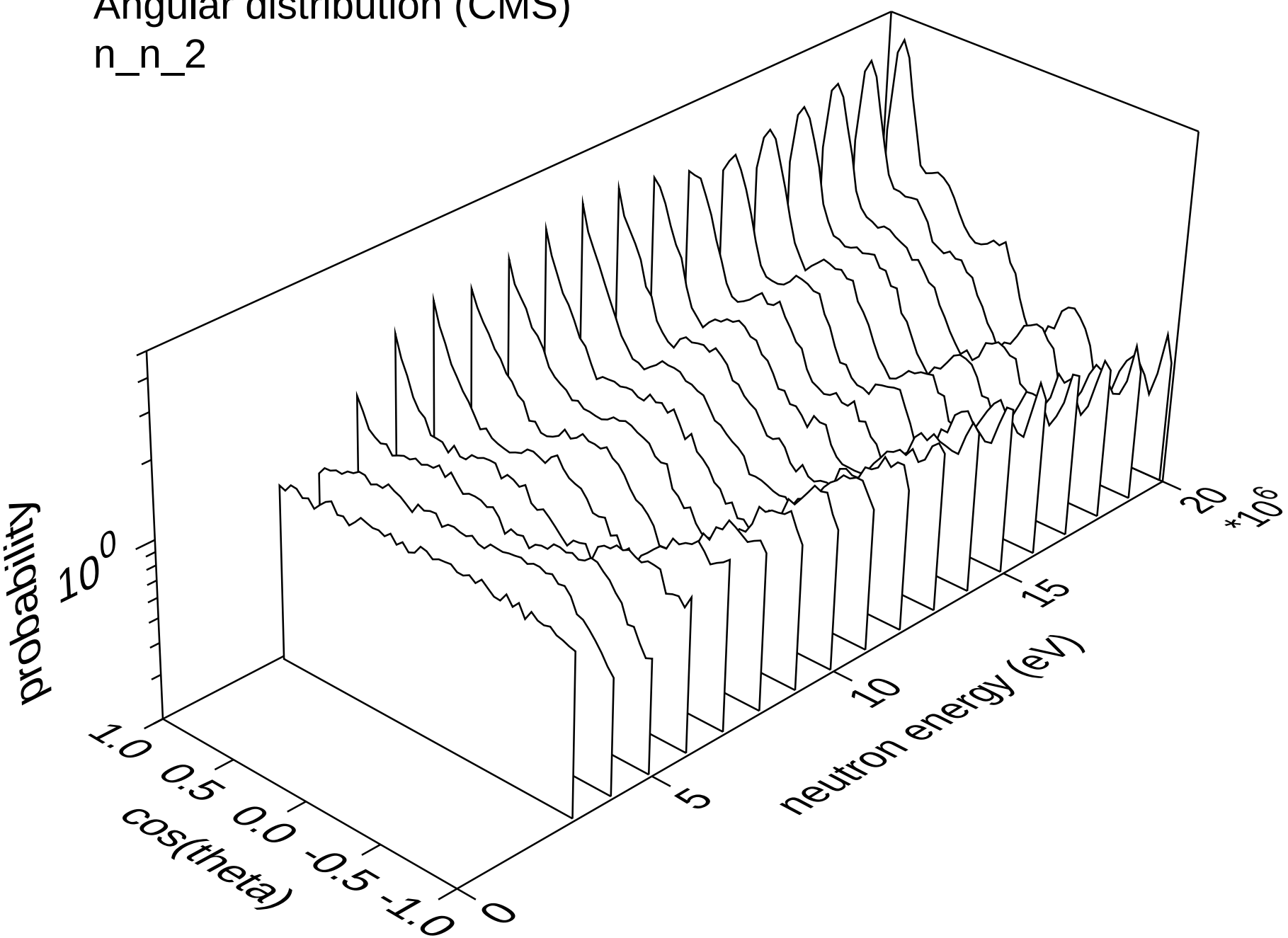

Angular distribution (CMS)
n_na part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
12
14
16
18
20
*10^6
neutron energy (eV)

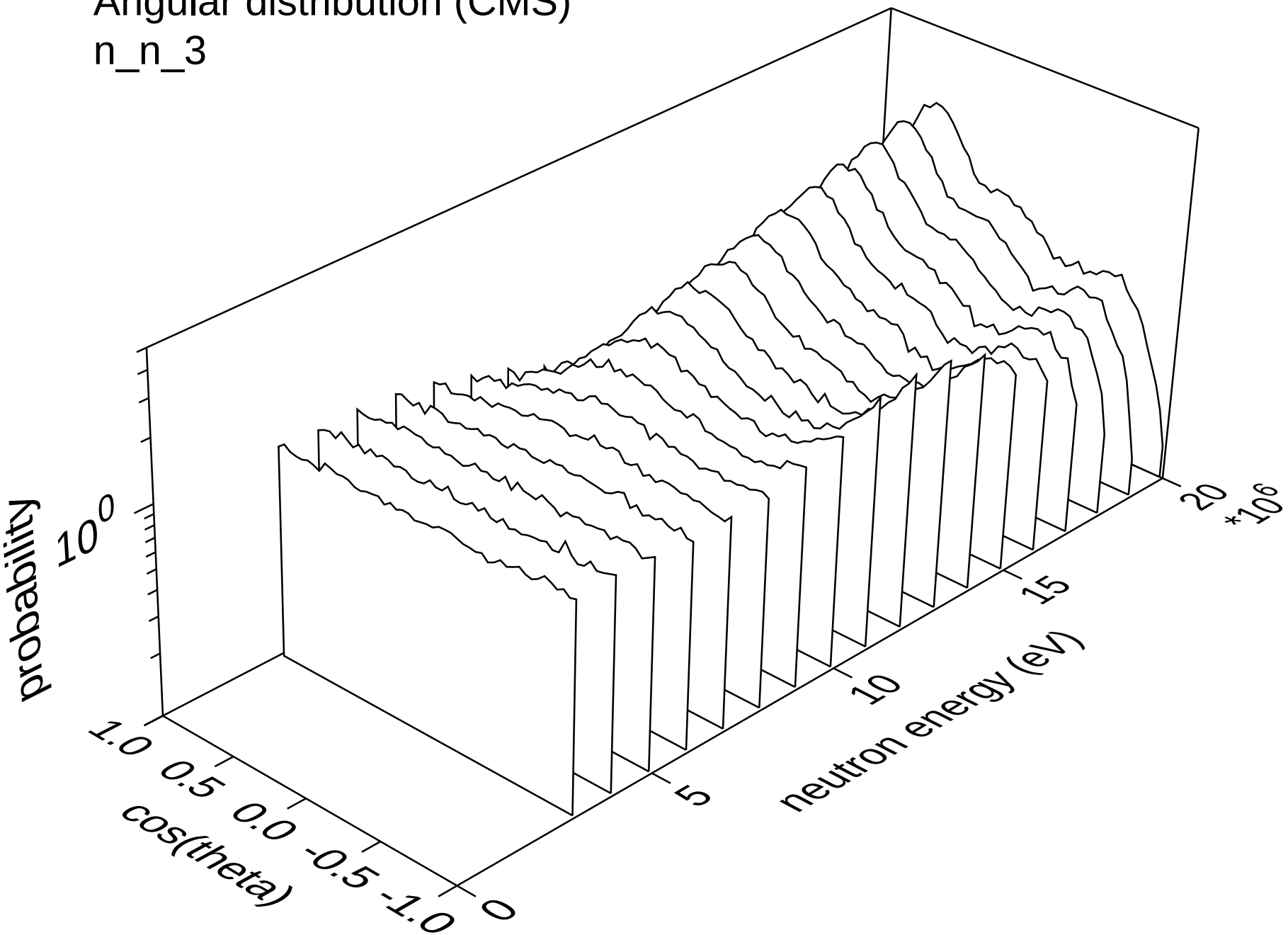

Angular distribution (CMS)
n_np part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

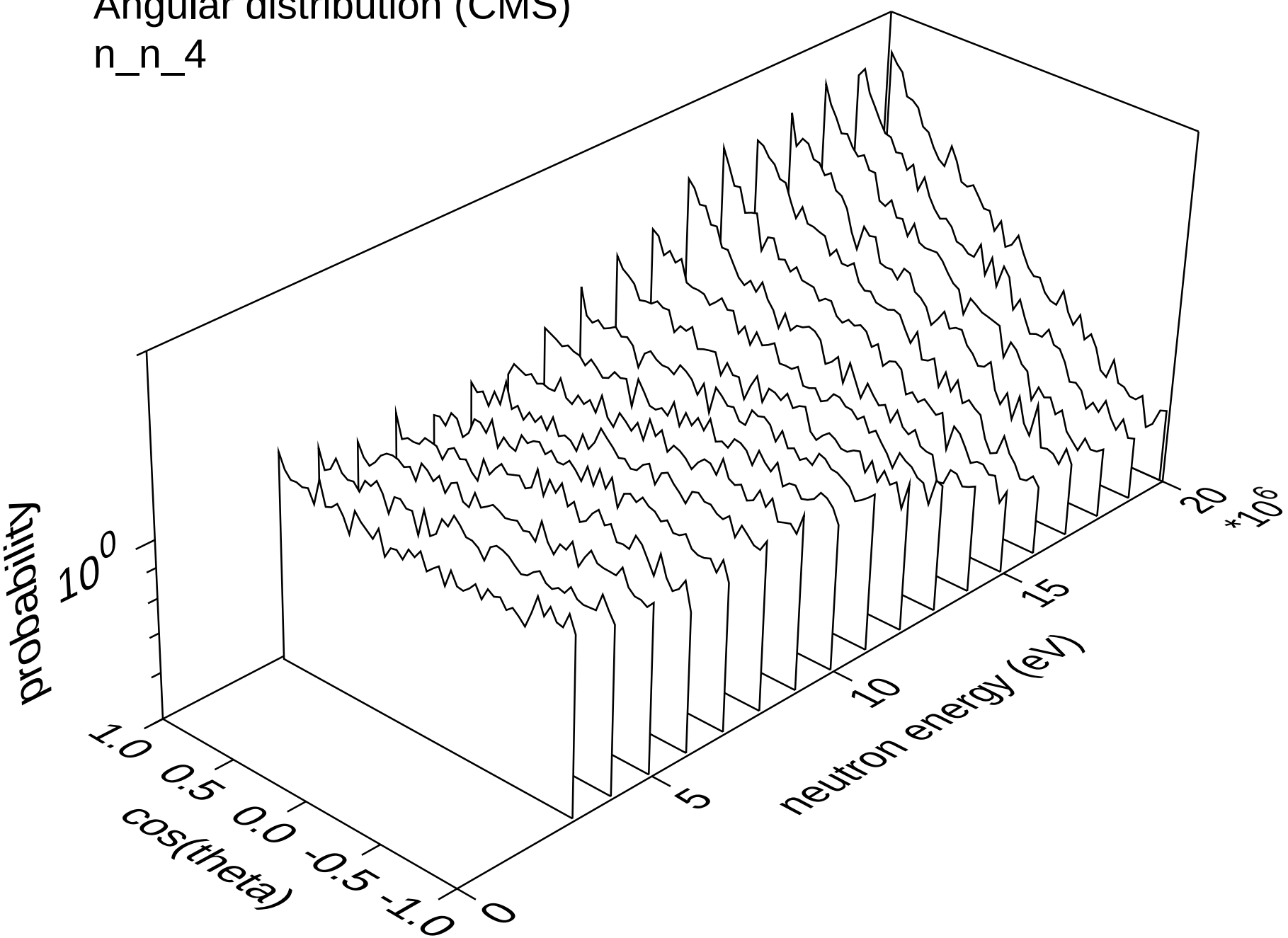

Angular distribution (CMS)
n_np part.=proton
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

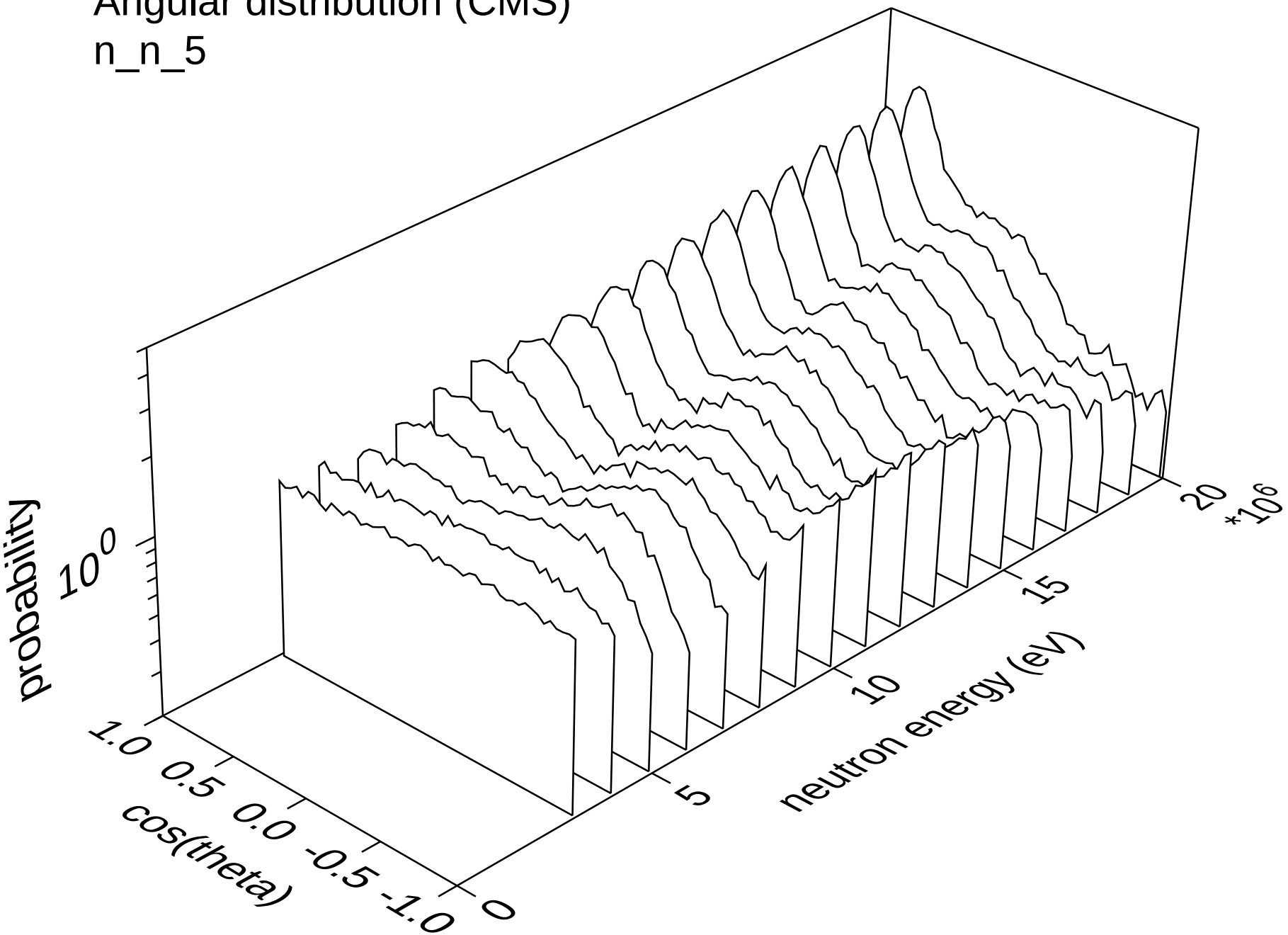

Angular distribution (CMS)
n_np part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

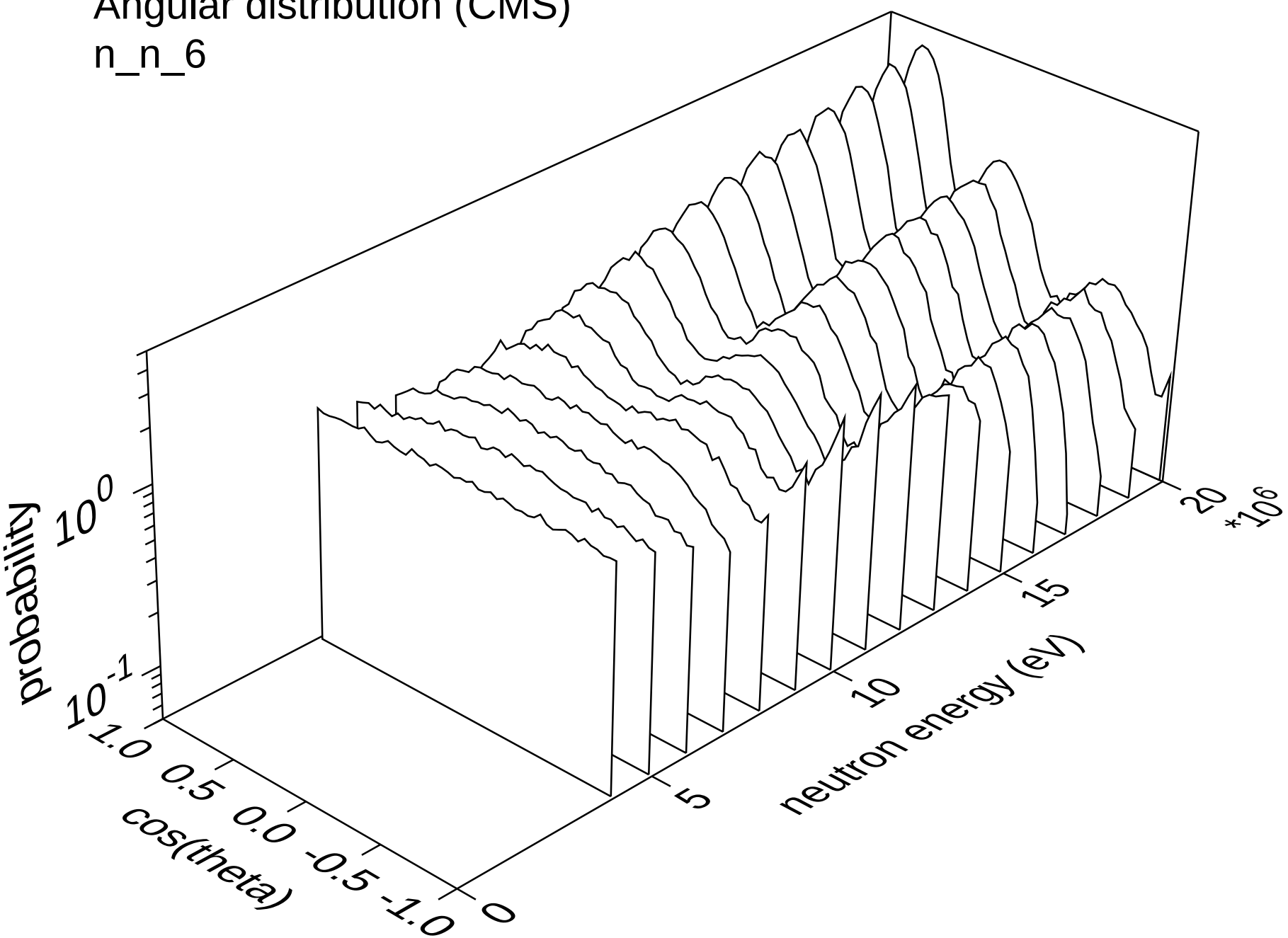

Angular distribution (CMS)
n_n_1
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

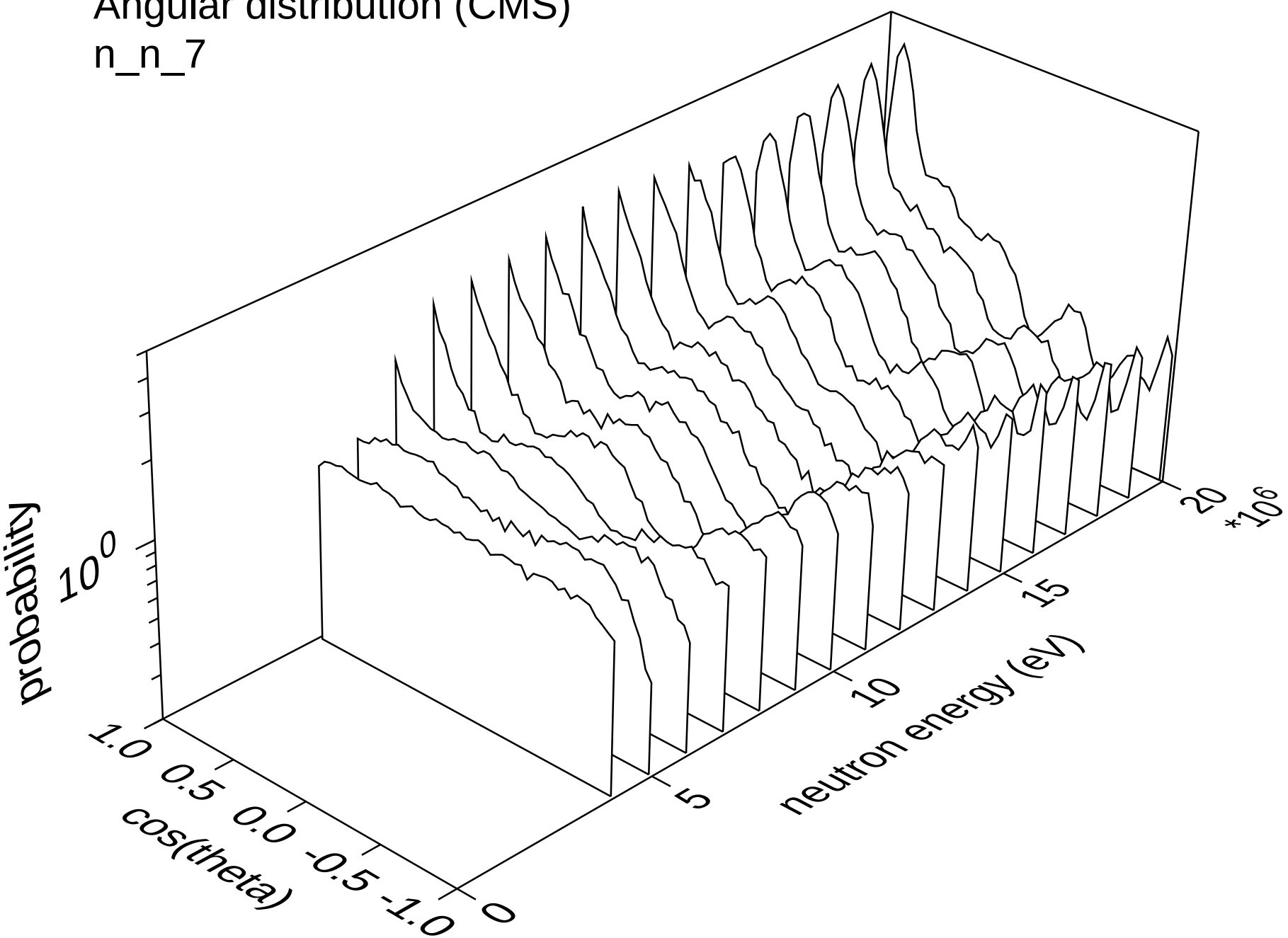

Angular distribution (CMS)
n_n_2
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

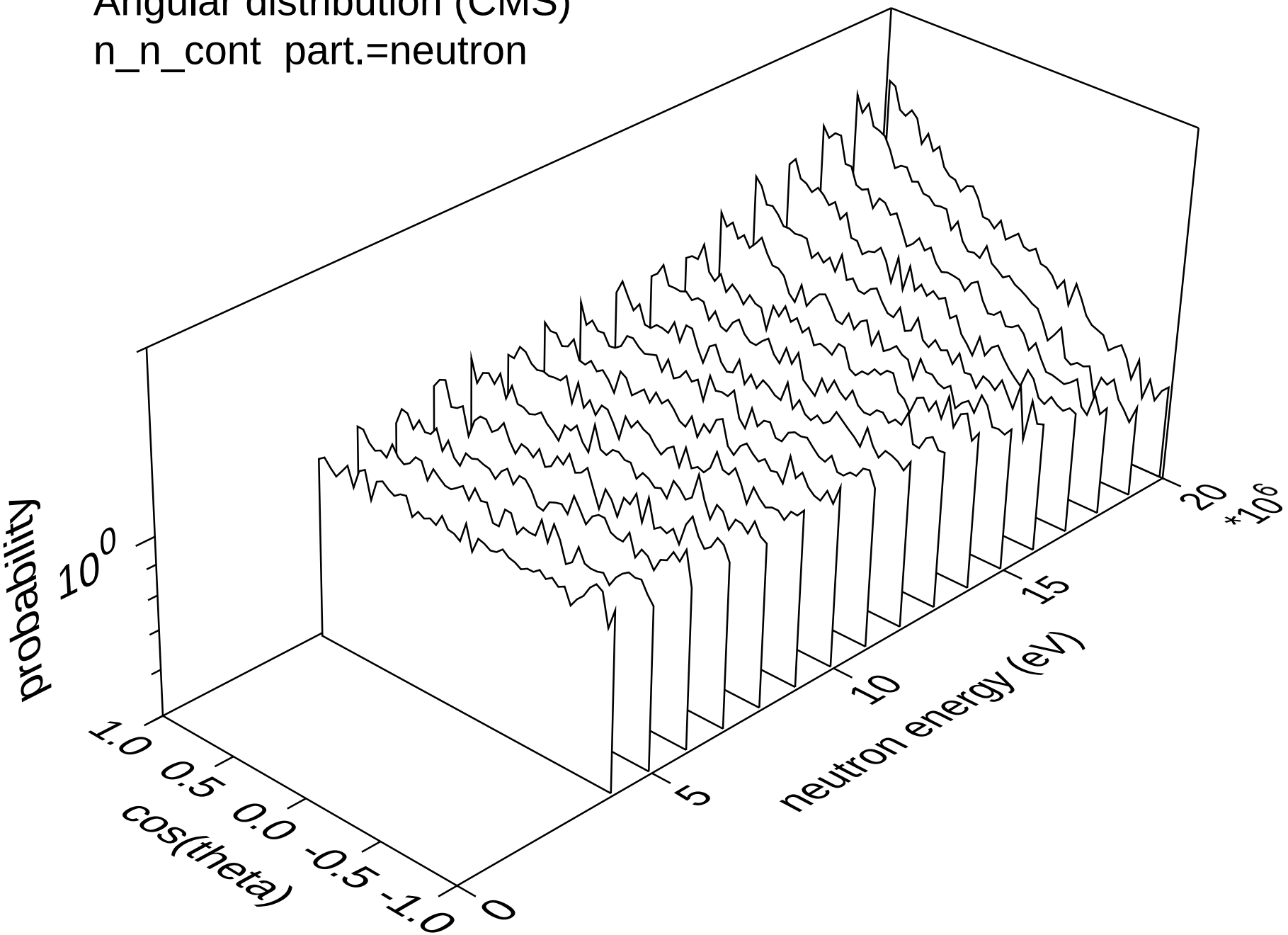

Angular distribution (CMS)
n_n_3
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

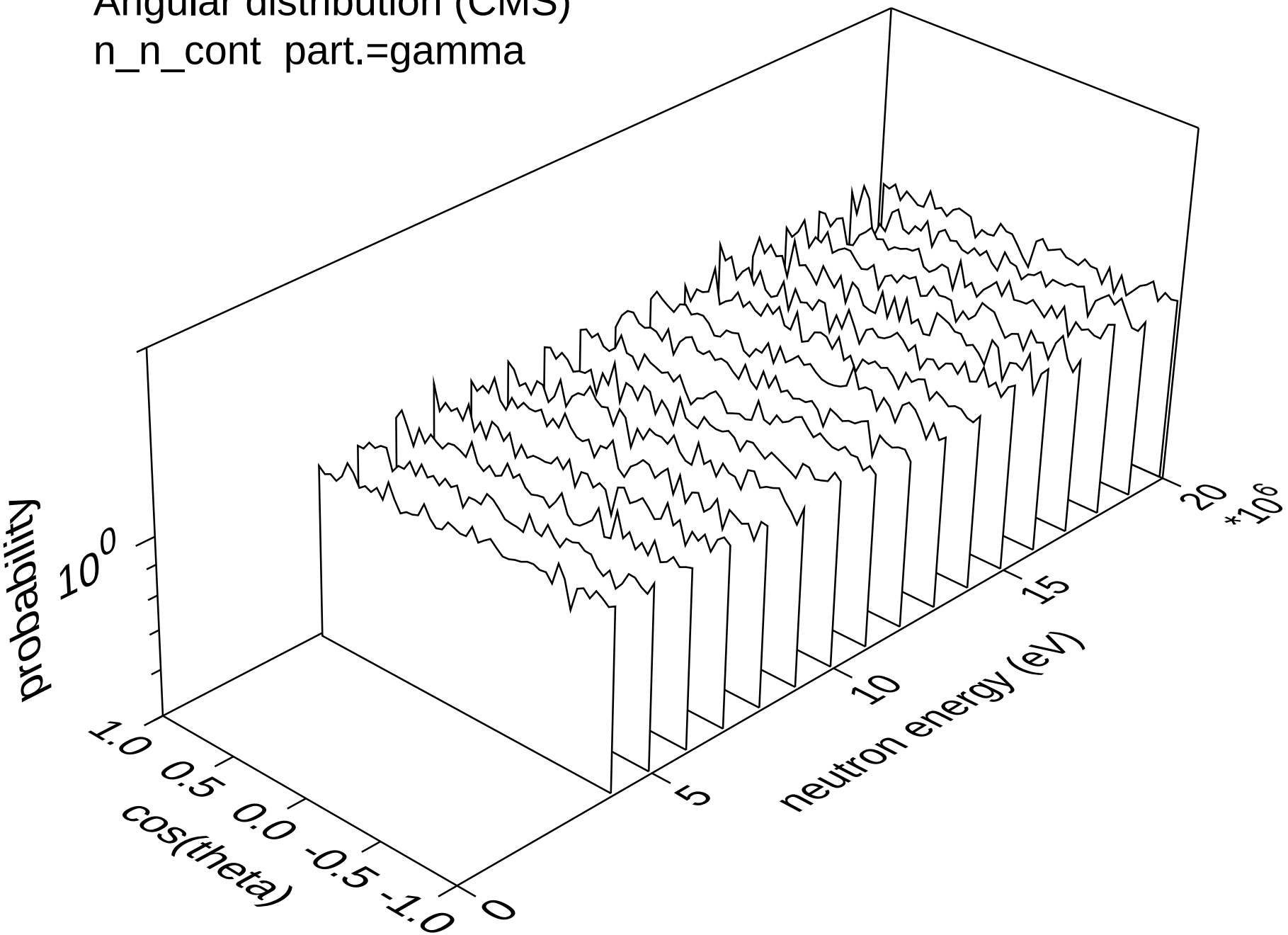

Angular distribution (CMS)
n_n_4
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

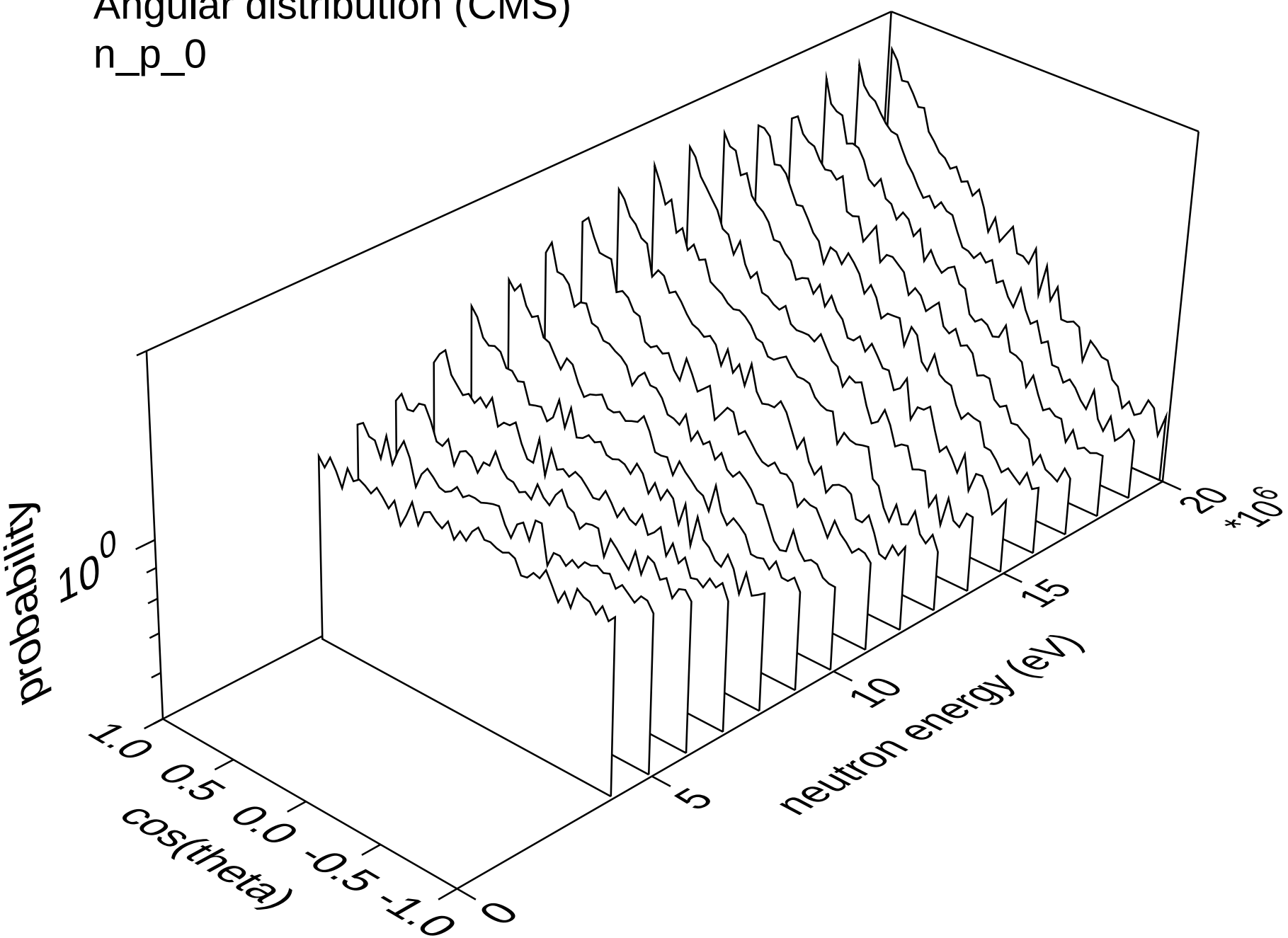

Angular distribution (CMS)
n_n_5
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

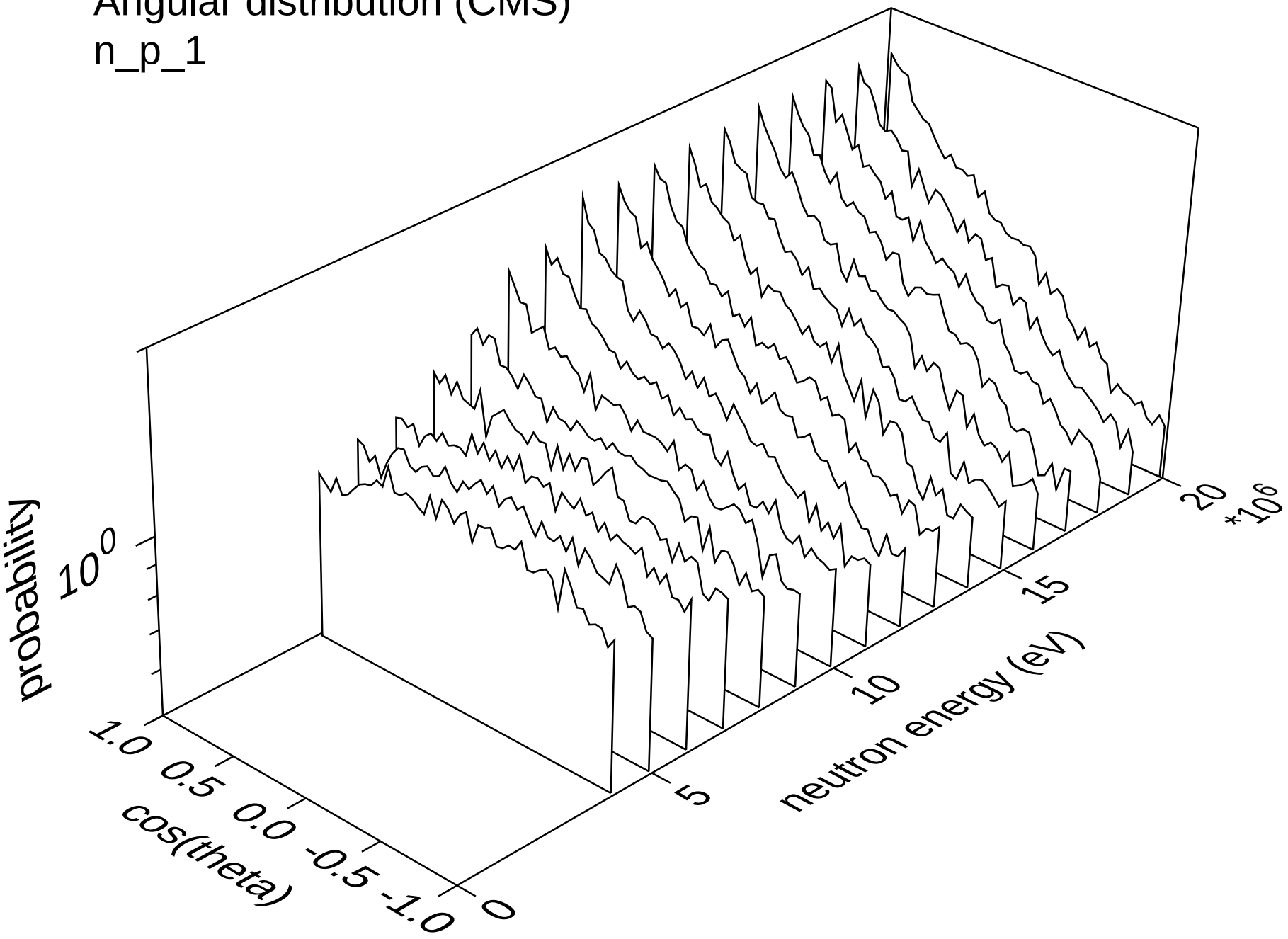

Angular distribution (CMS)
n_n_6
probability
10^0
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

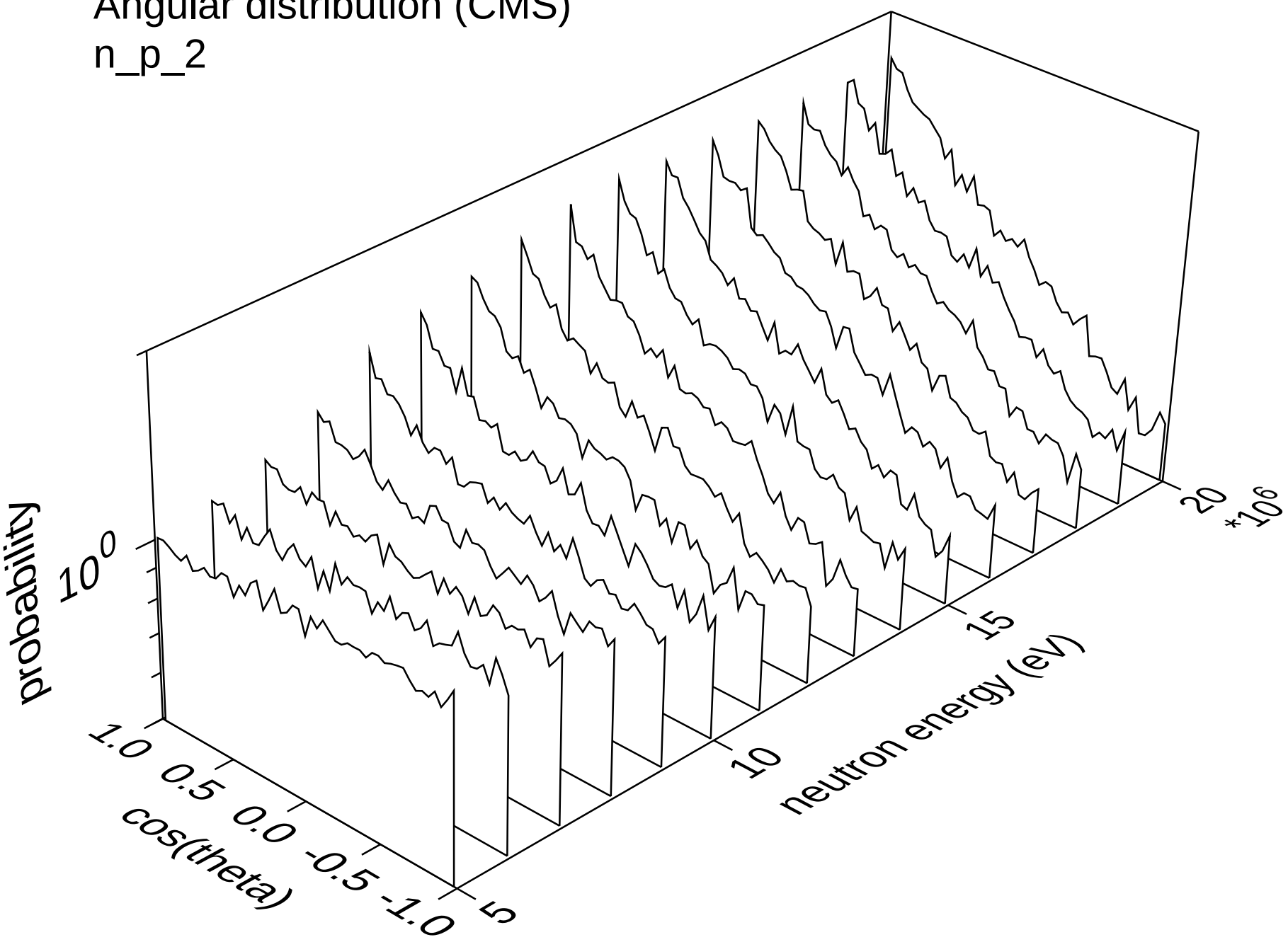

Angular distribution (CMS)
n_n_7
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

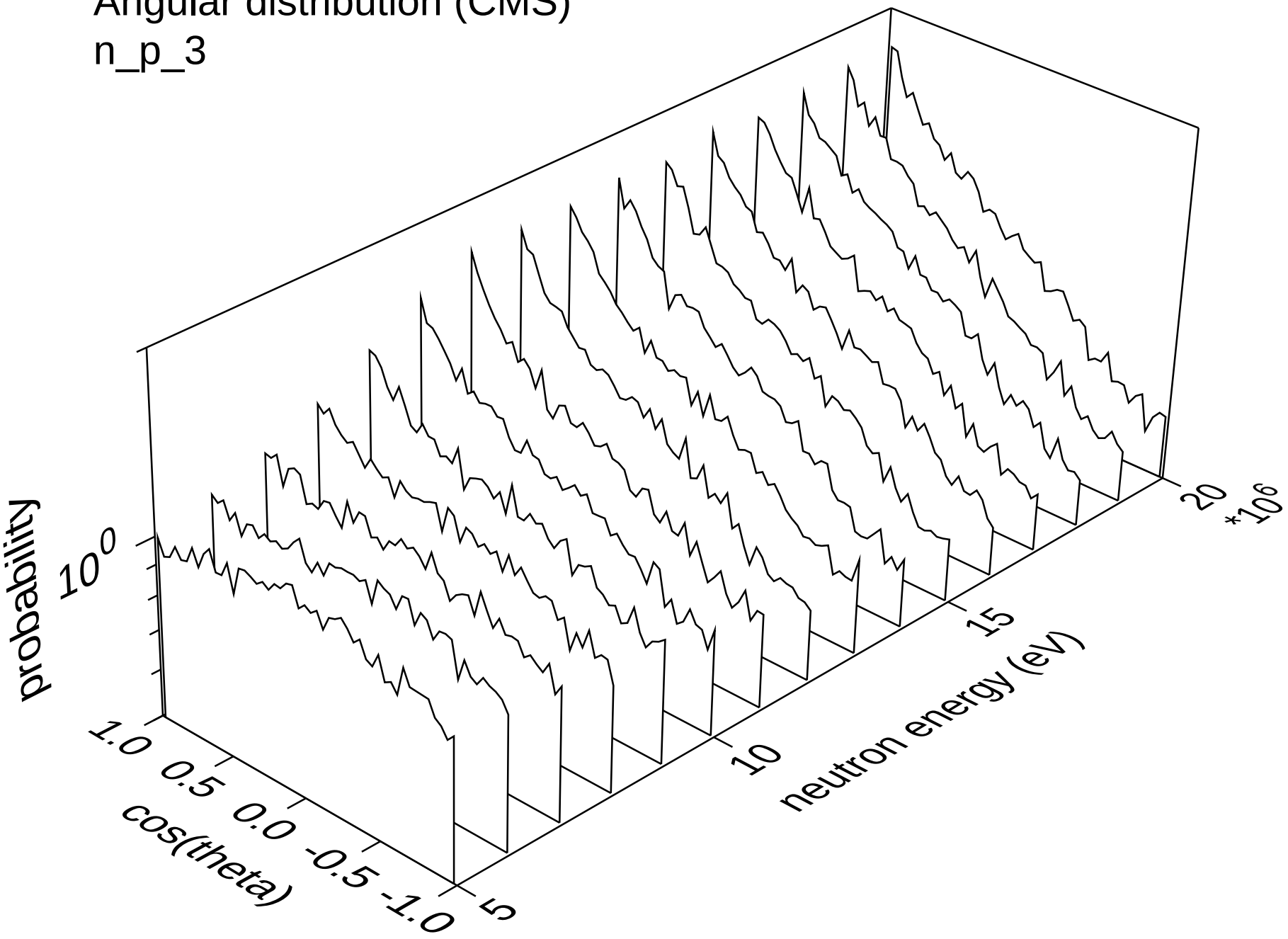

Angular distribution (CMS)
n_n_cont part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

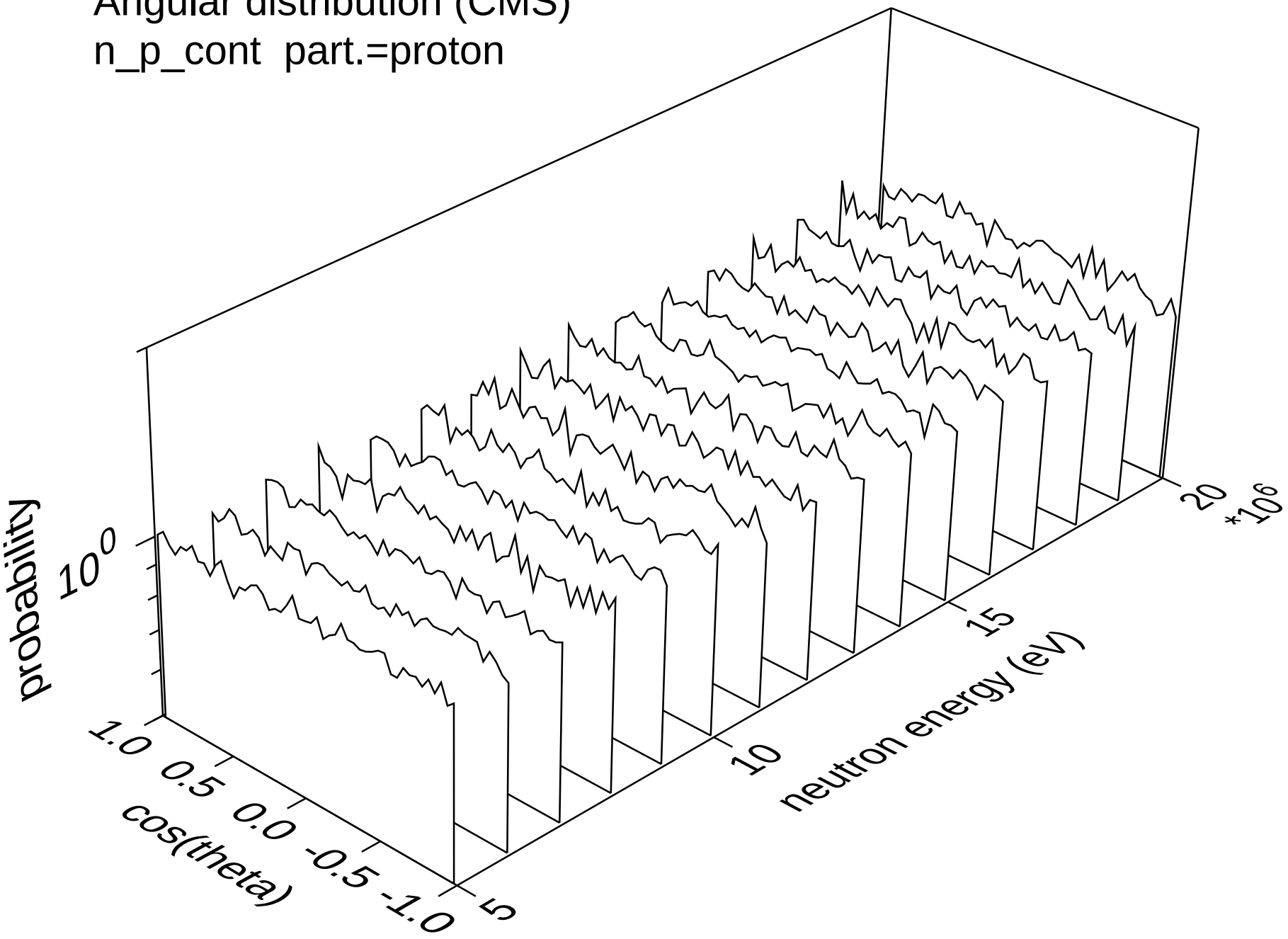

Angular distribution (CMS)
n_n_cont part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

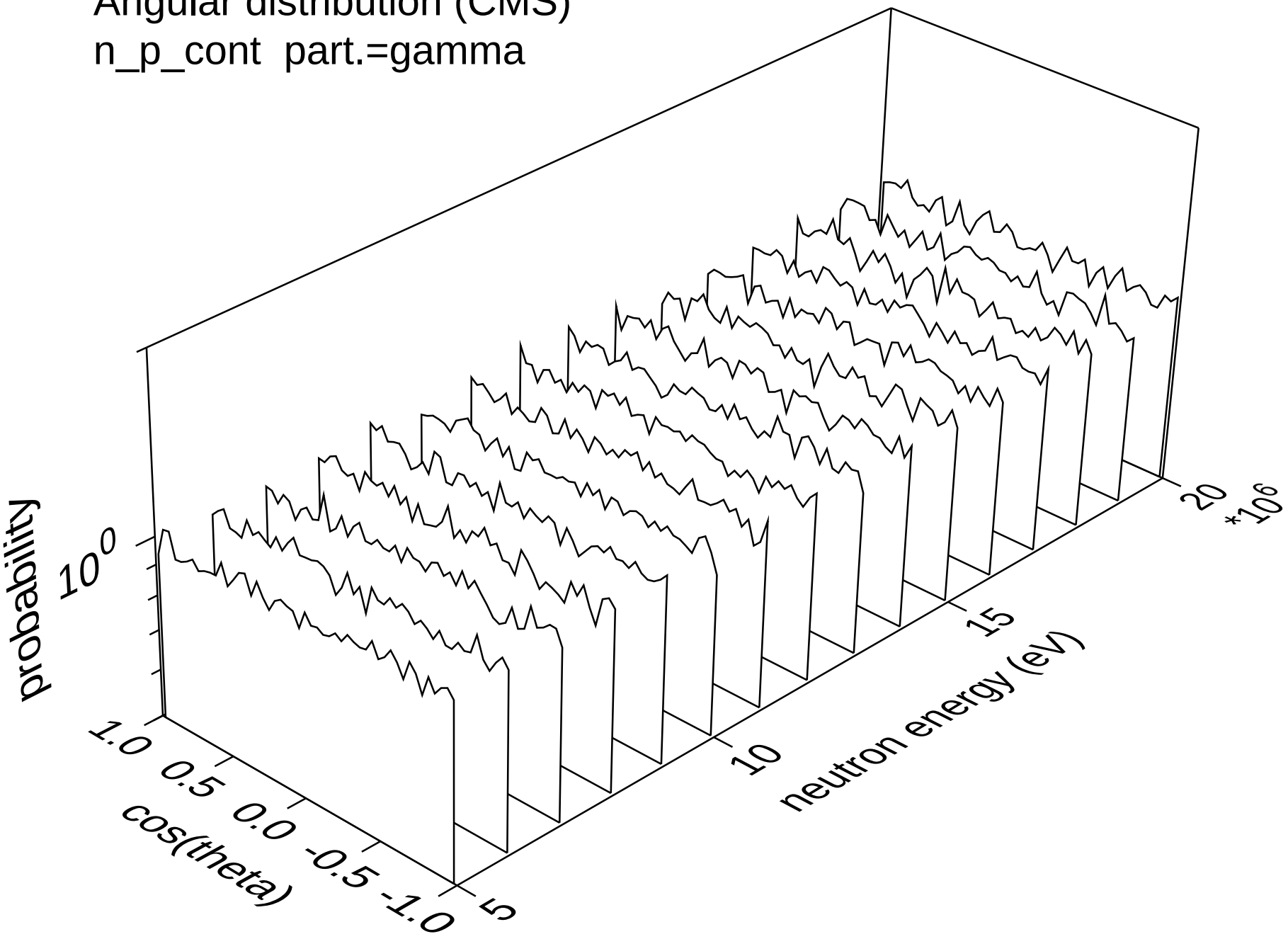

Angular distribution (CMS)
n_p_0
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

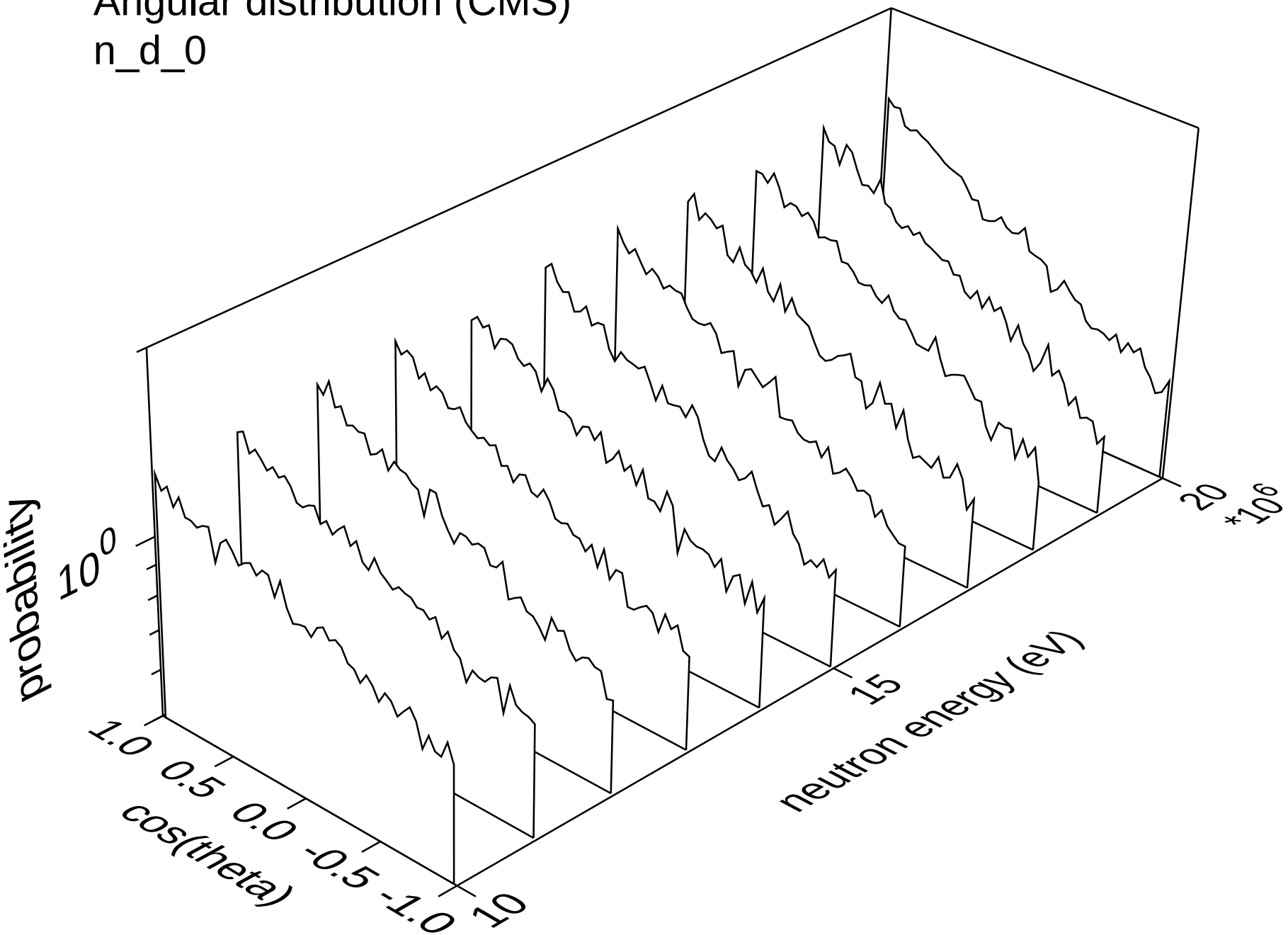

Angular distribution (CMS)
n_p_1
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

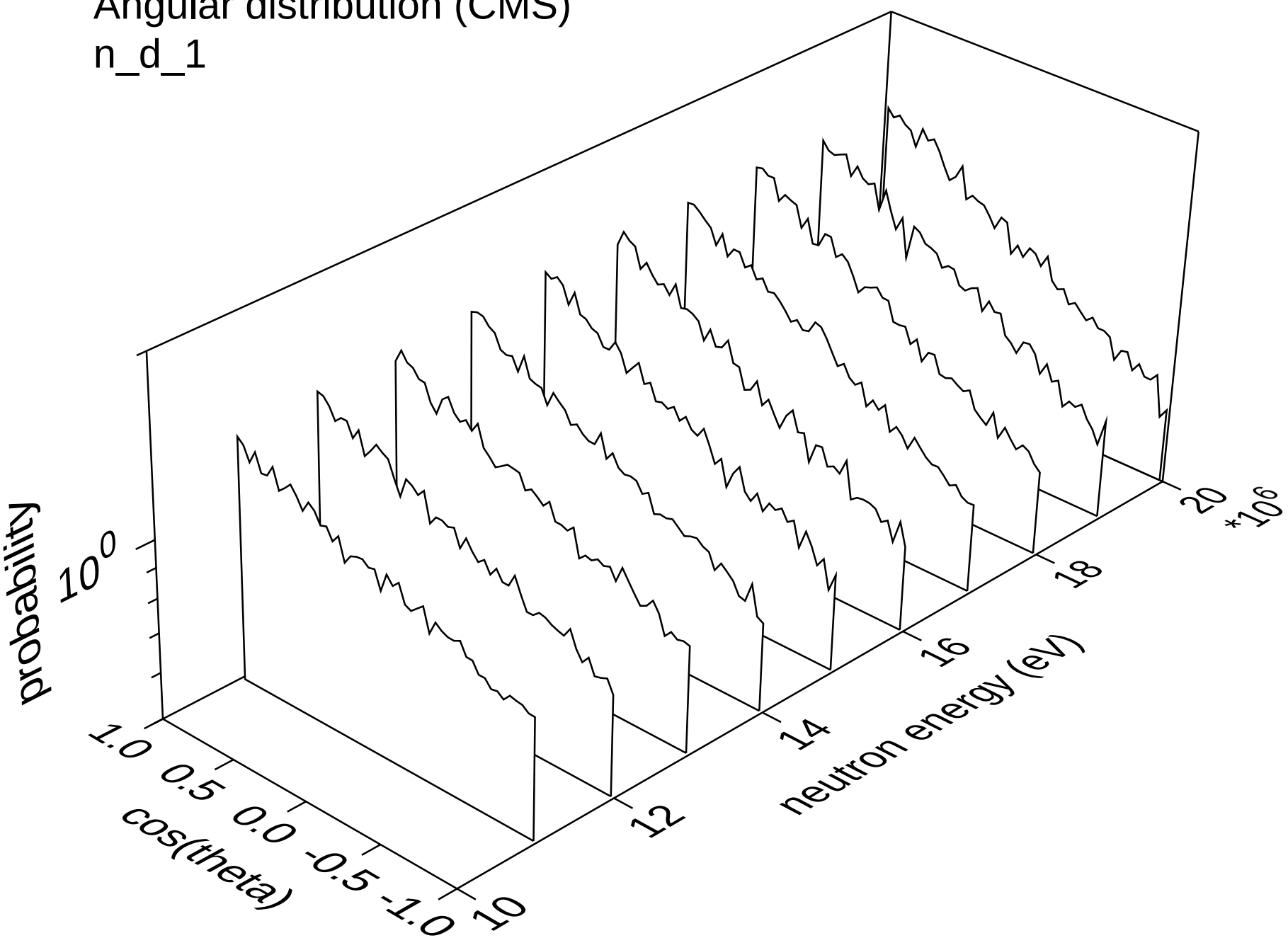

Angular distribution (CMS)
n_p_2
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

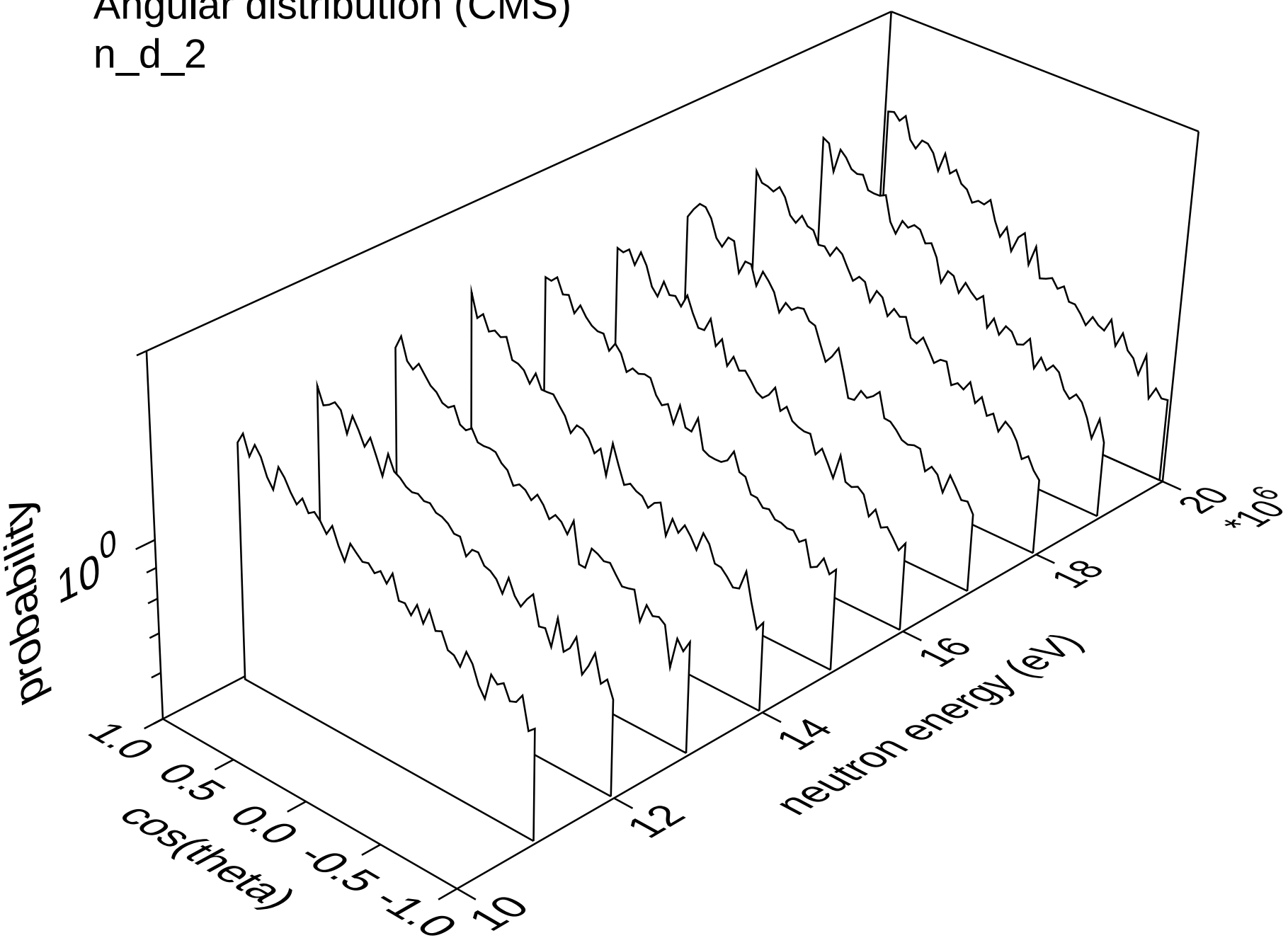

Angular distribution (CMS)
n_p_3
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

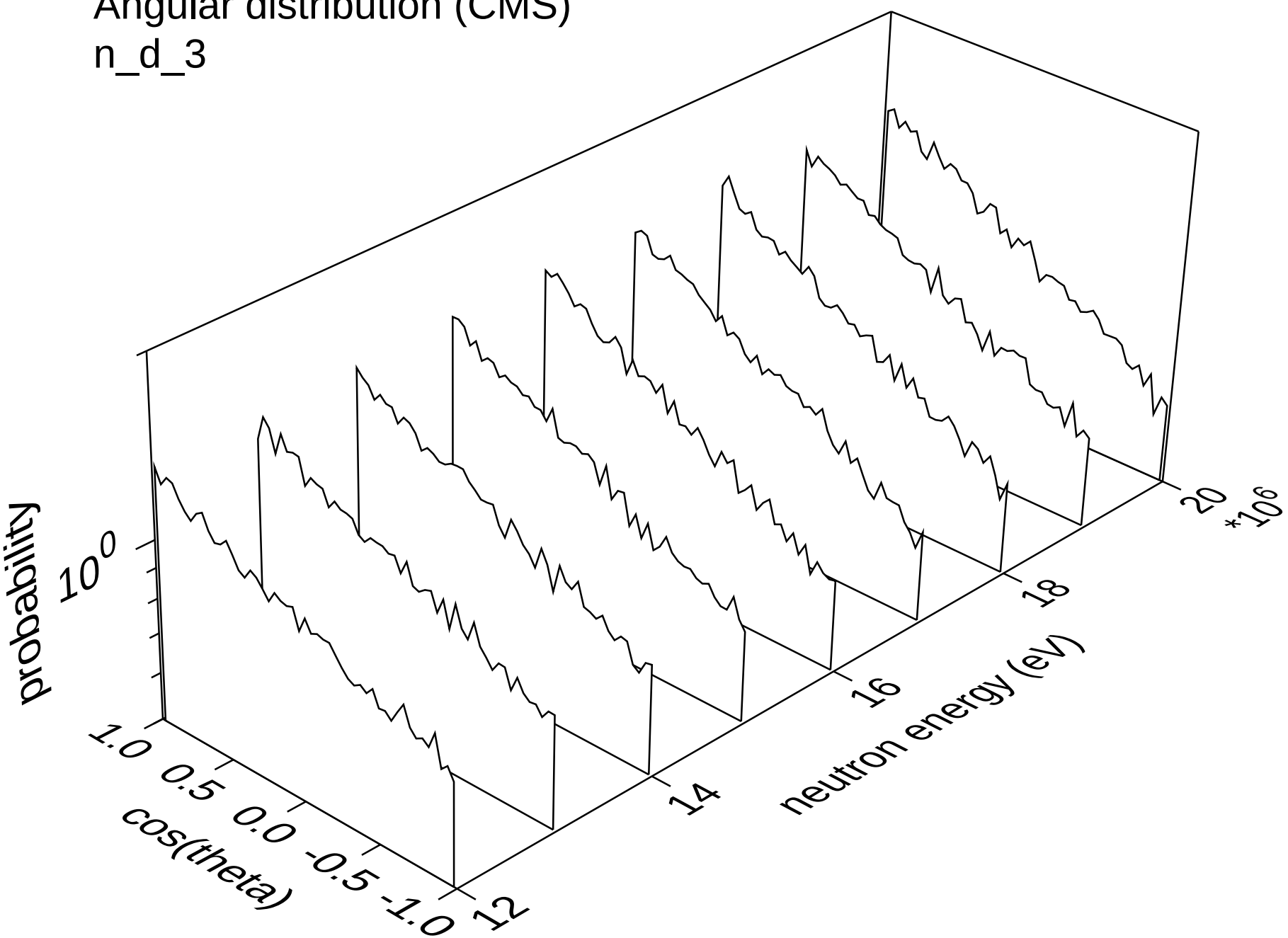

Angular distribution (CMS)
n_p_cont part.=proton
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

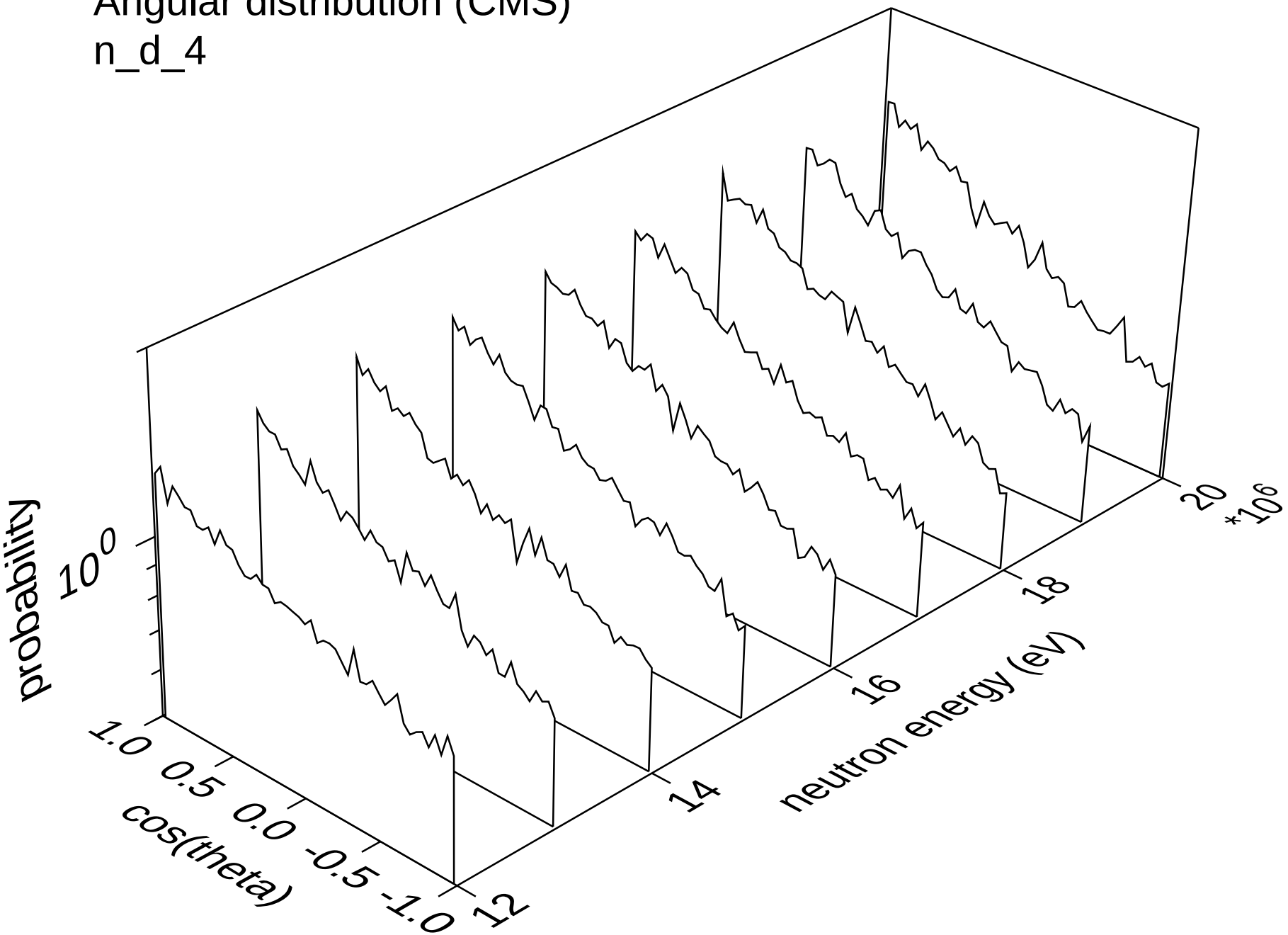

Angular distribution (CMS)
n_p_cont part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

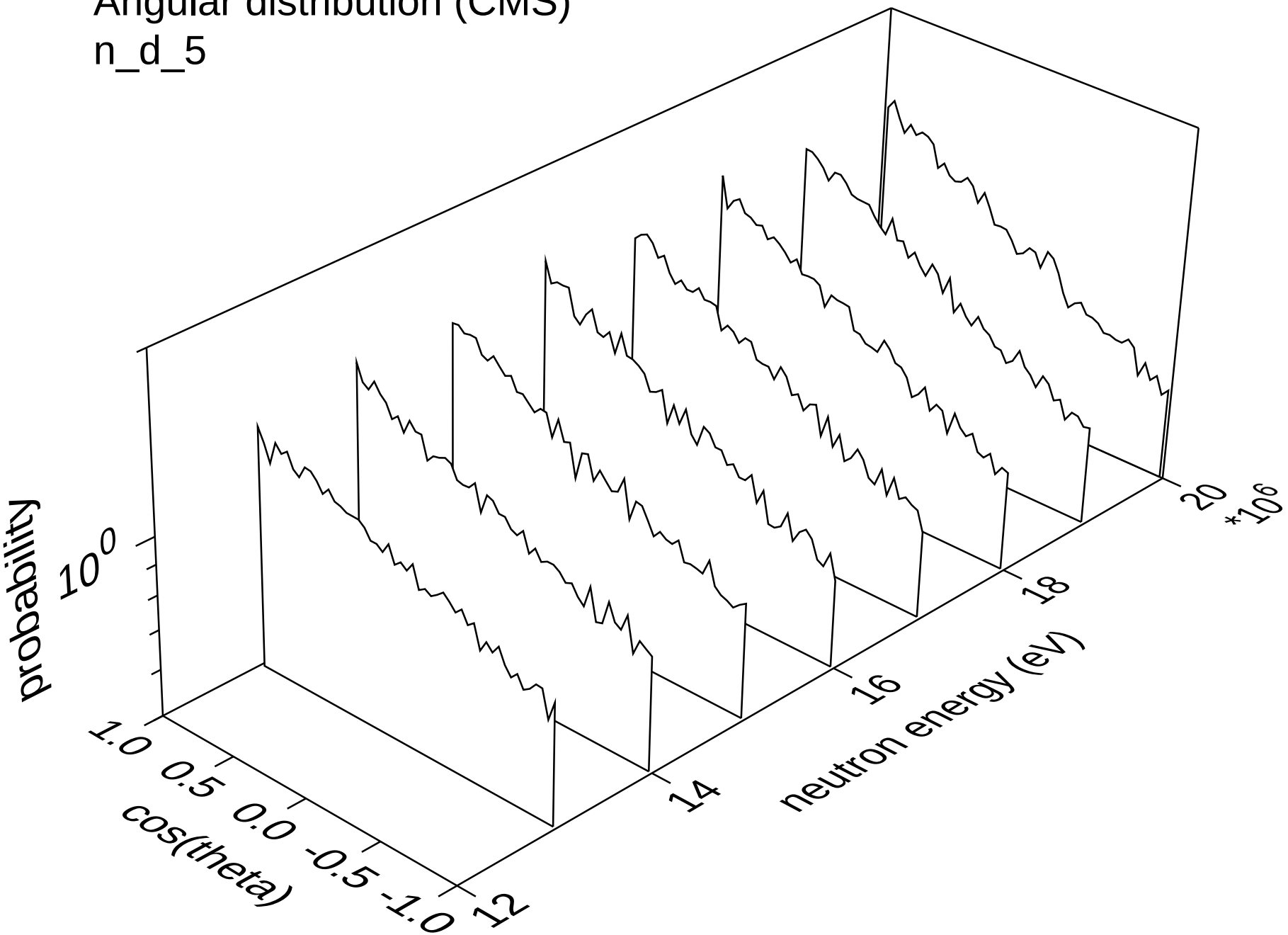

Angular distribution (CMS)
n_d_0
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
*10^6
neutron energy (eV)

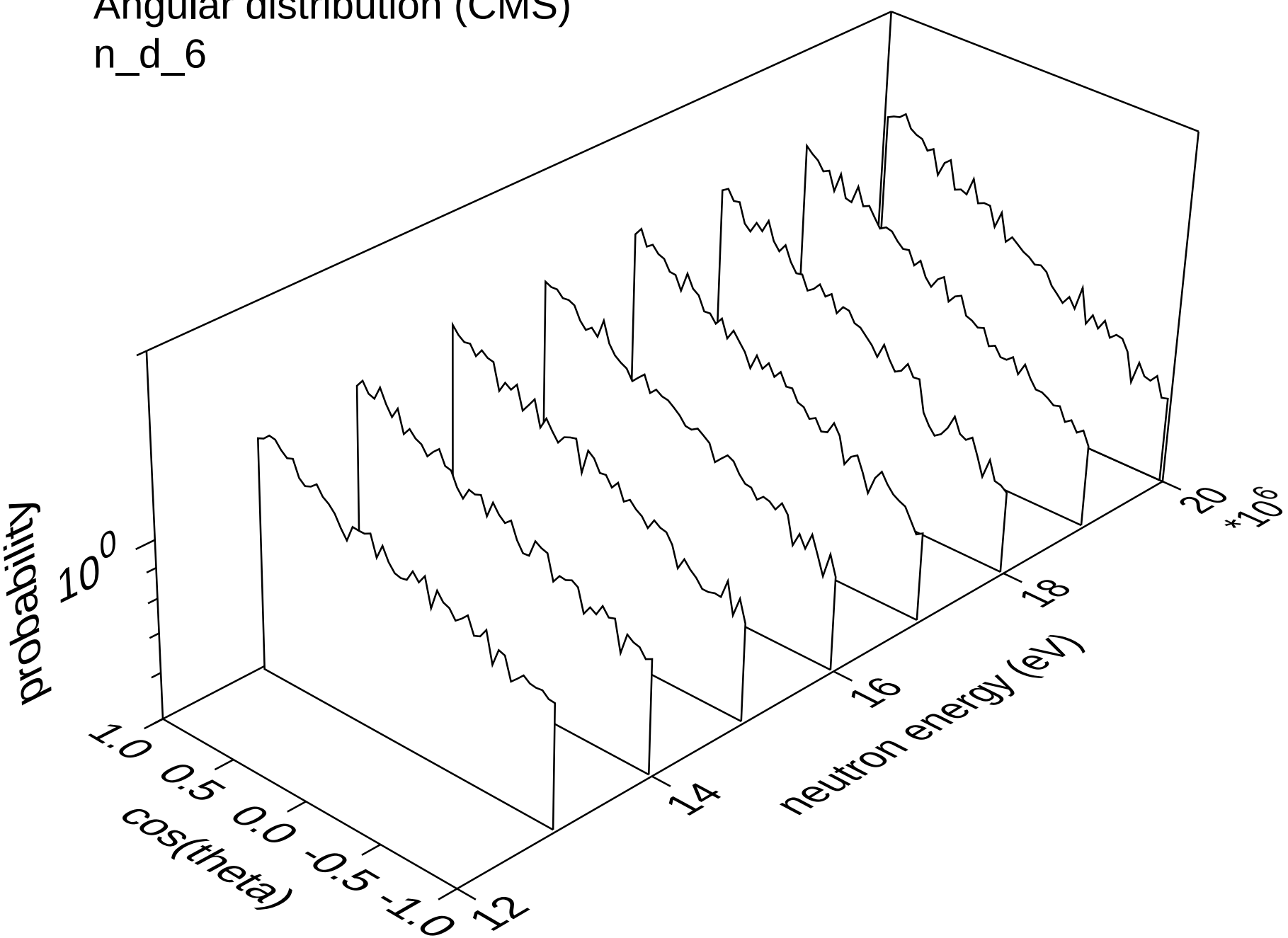

Angular distribution (CMS)
n_d_1
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

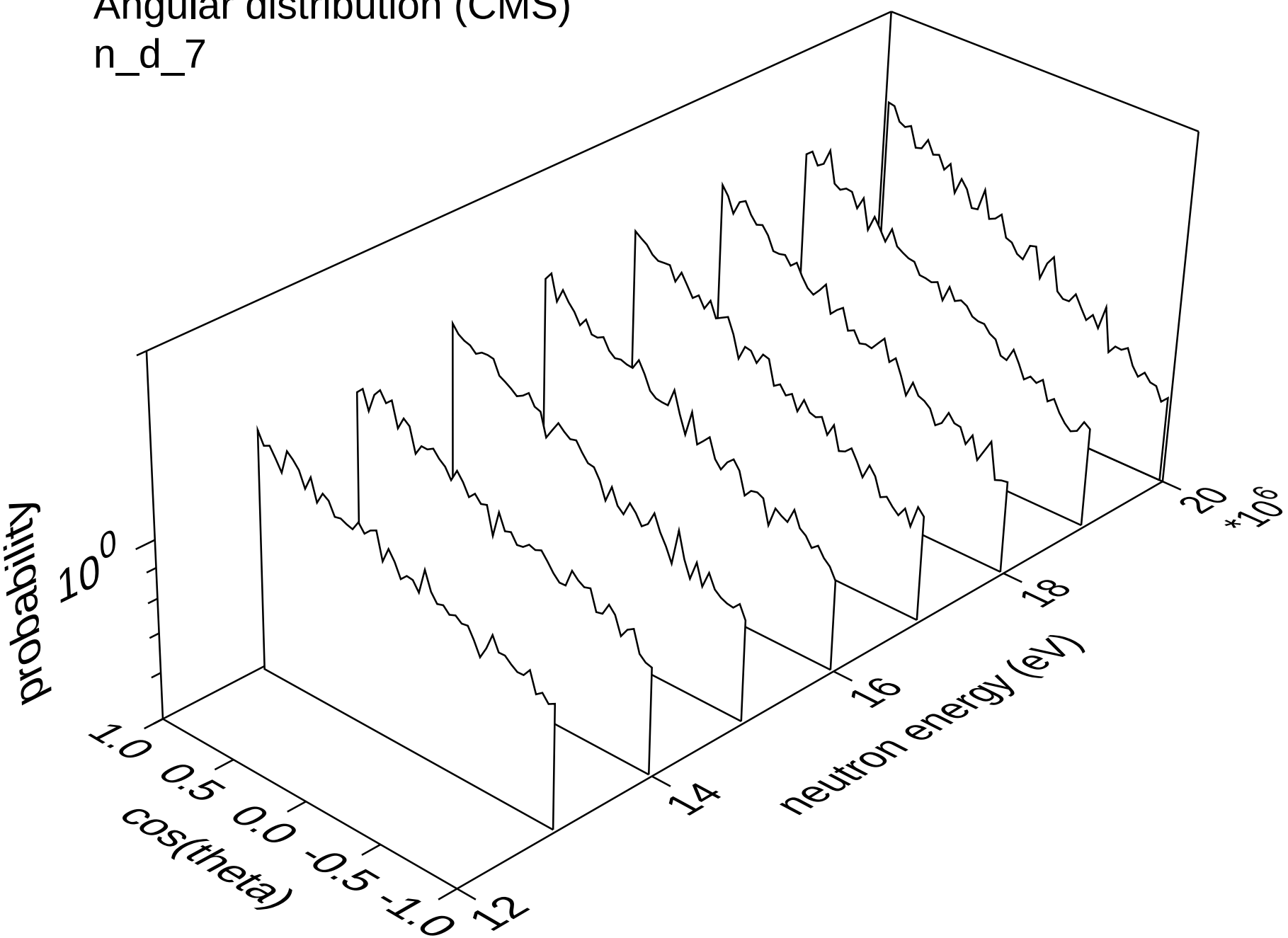

Angular distribution (CMS)
n_d_2
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

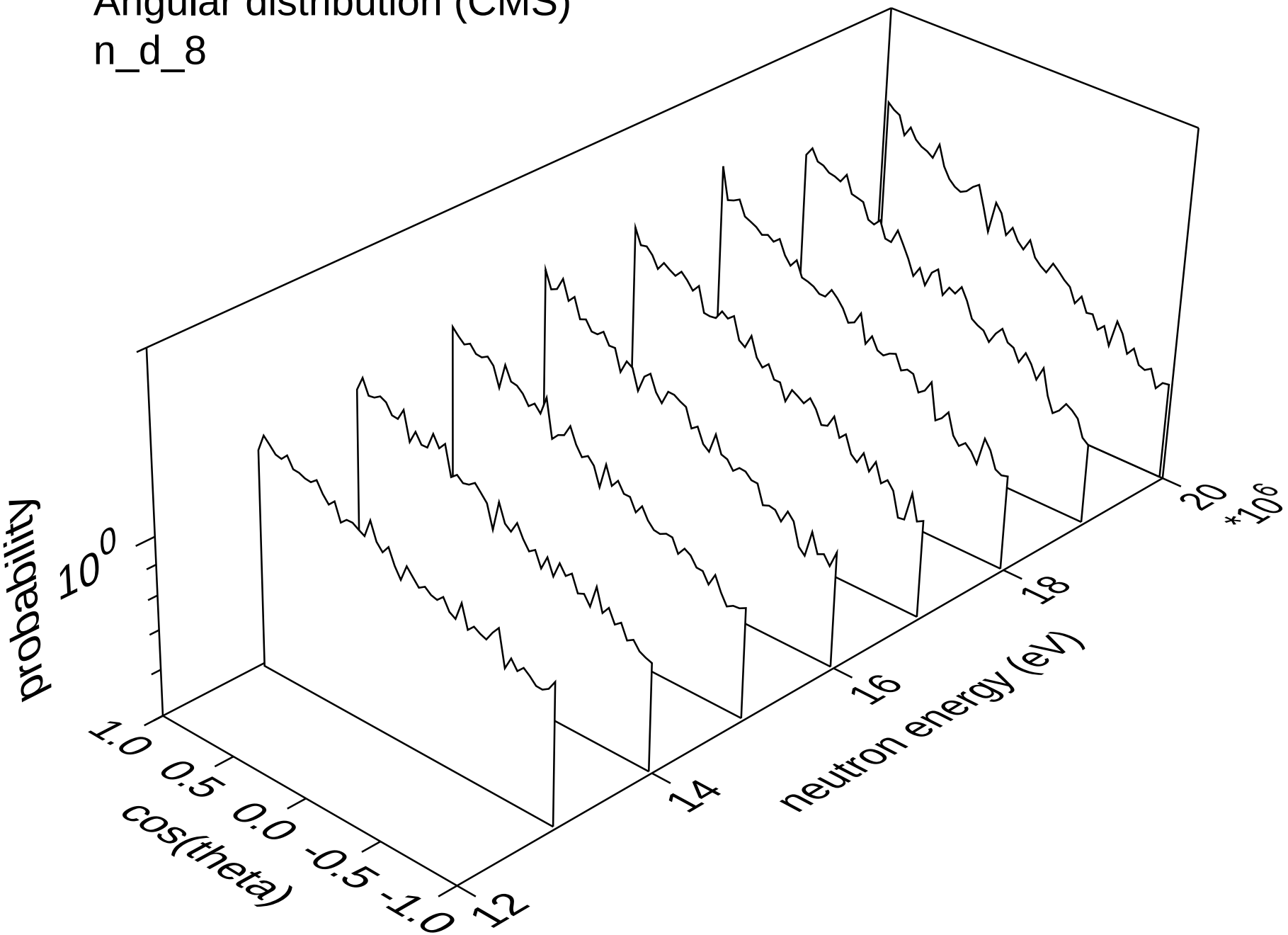

Angular distribution (CMS)
n_d_3
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
12
14
16
18
20
*10^6
neutron energy (eV)

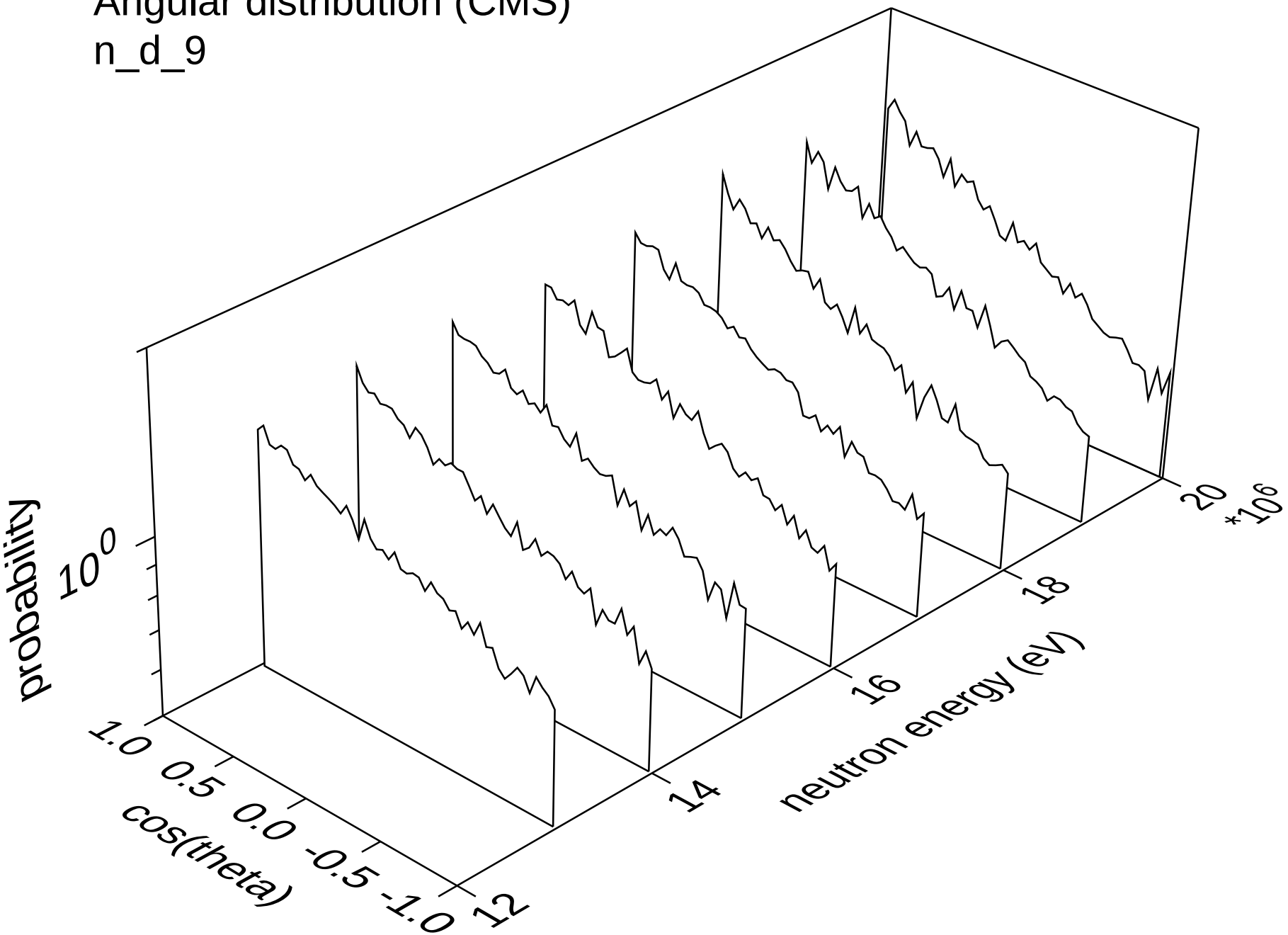

Angular distribution (CMS)
n_d_4
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
12
14
16
18
20
*10^6
neutron energy (eV)

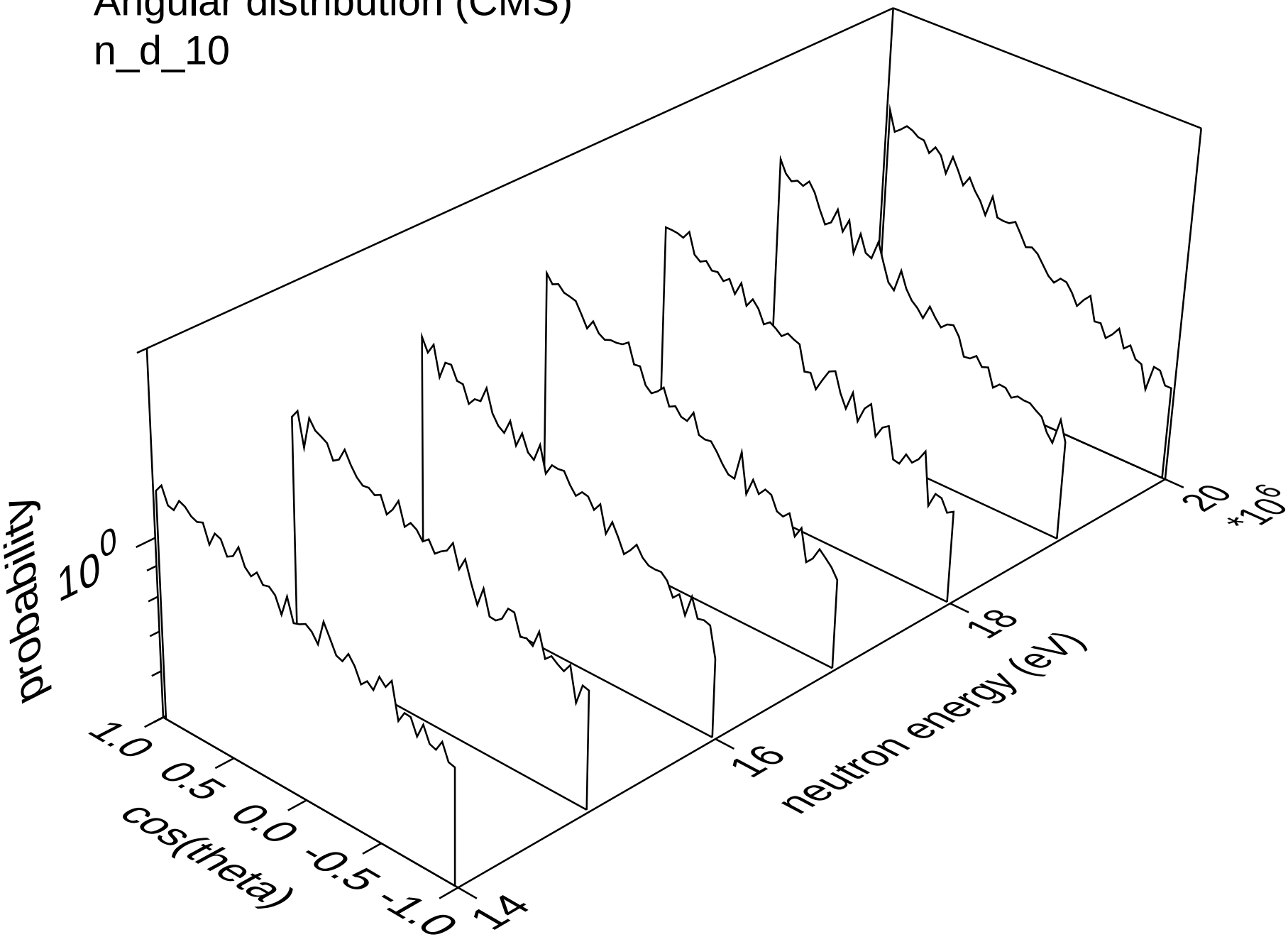

Angular distribution (CMS)
n_d_5
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
12
14
16
18
20
*10^6
neutron energy (eV)

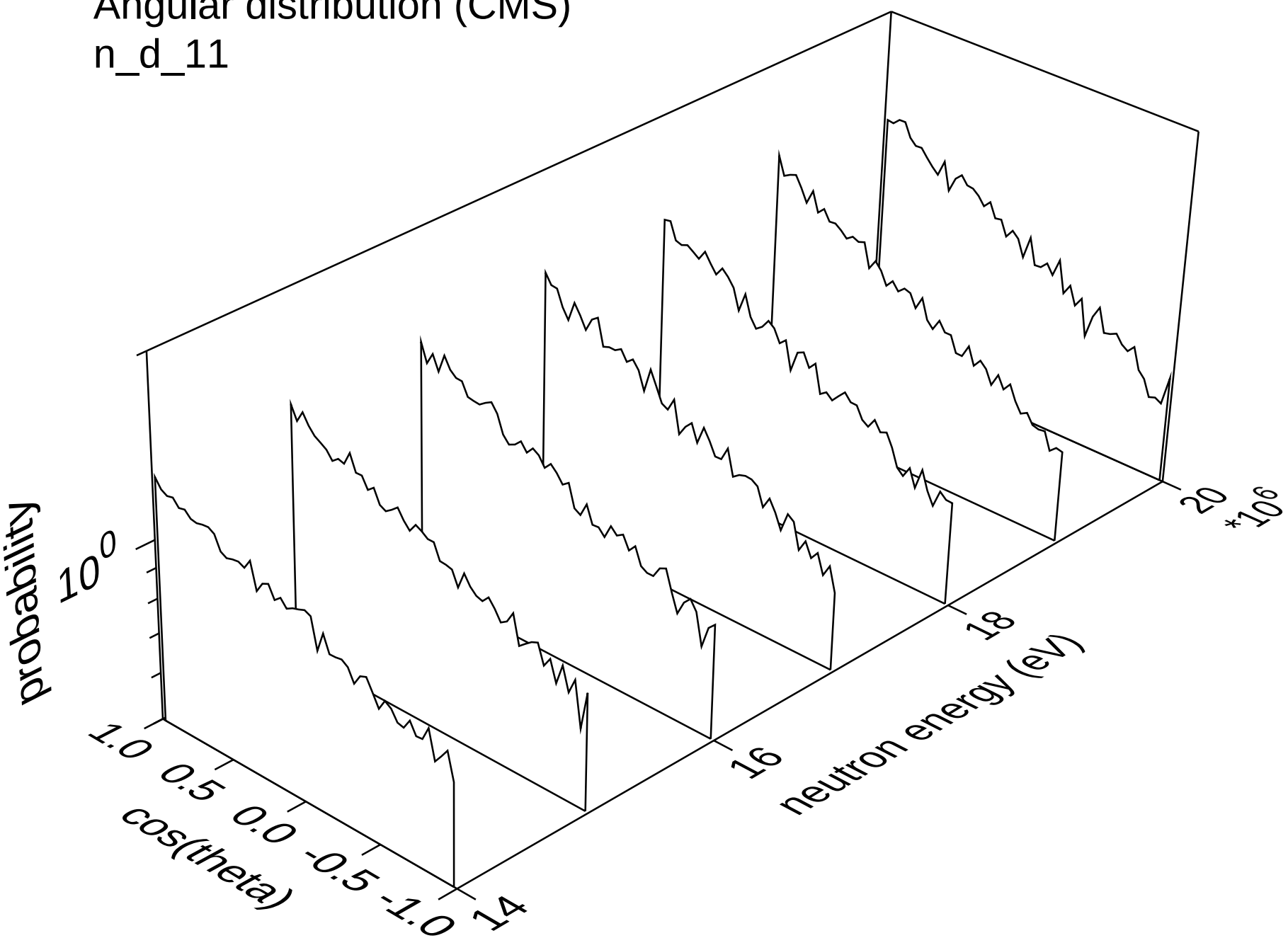

Angular distribution (CMS)
n_d_6
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
12
14
16
18
20
*10^6
neutron energy (eV)

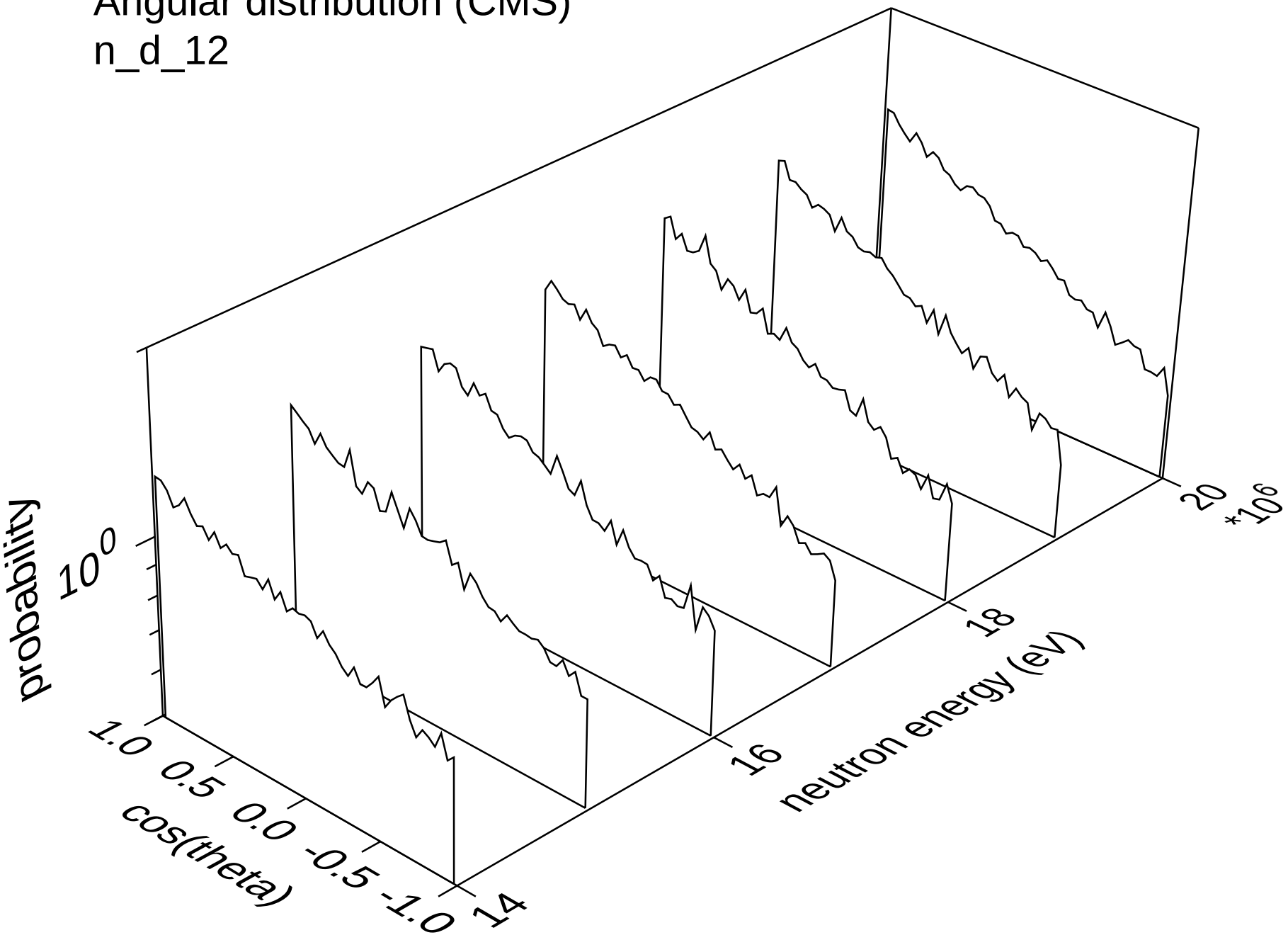

Angular distribution (CMS)
n_d_7
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
12
14
16
18
20
*10^6
neutron energy (eV)

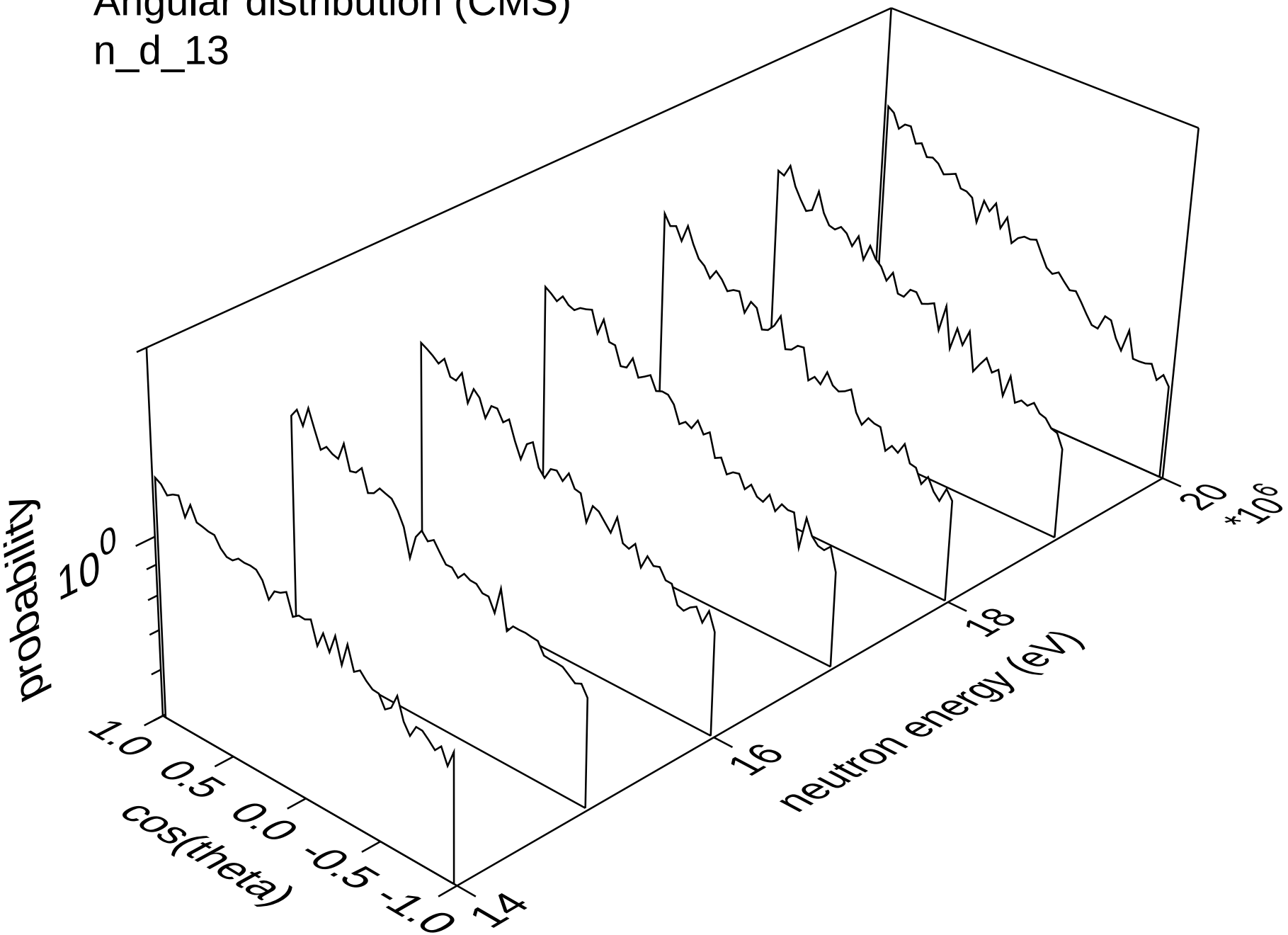

Angular distribution (CMS)
n_d_8
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
12
14
16
18
20
*10^6
neutron energy (eV)

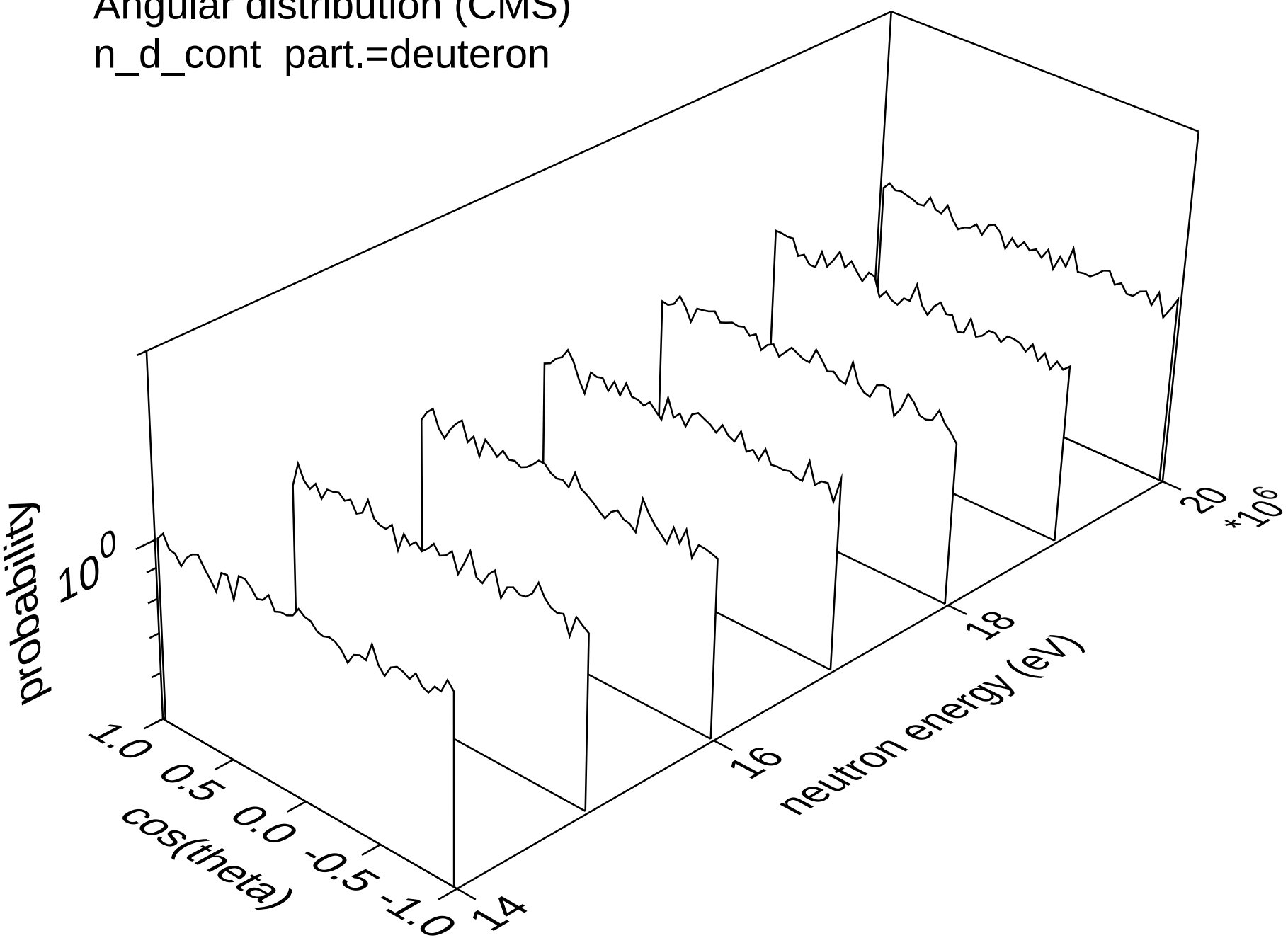

Angular distribution (CMS)
n_d_9
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
12
14
16
18
20
*10^6
neutron energy (eV)

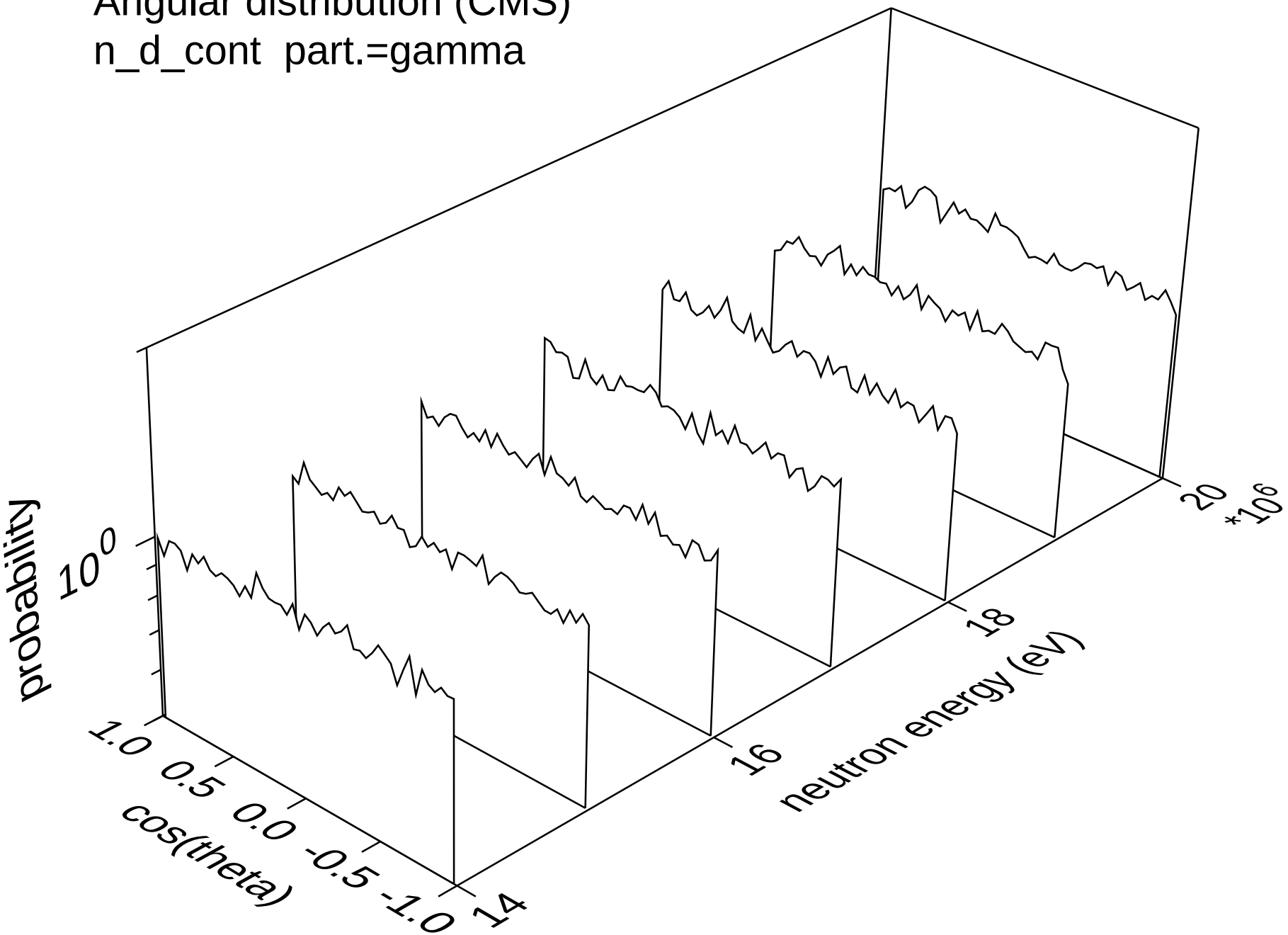

Angular distribution (CMS)
n_d_10
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
14
16
18
20
*10^6
neutron energy (eV)

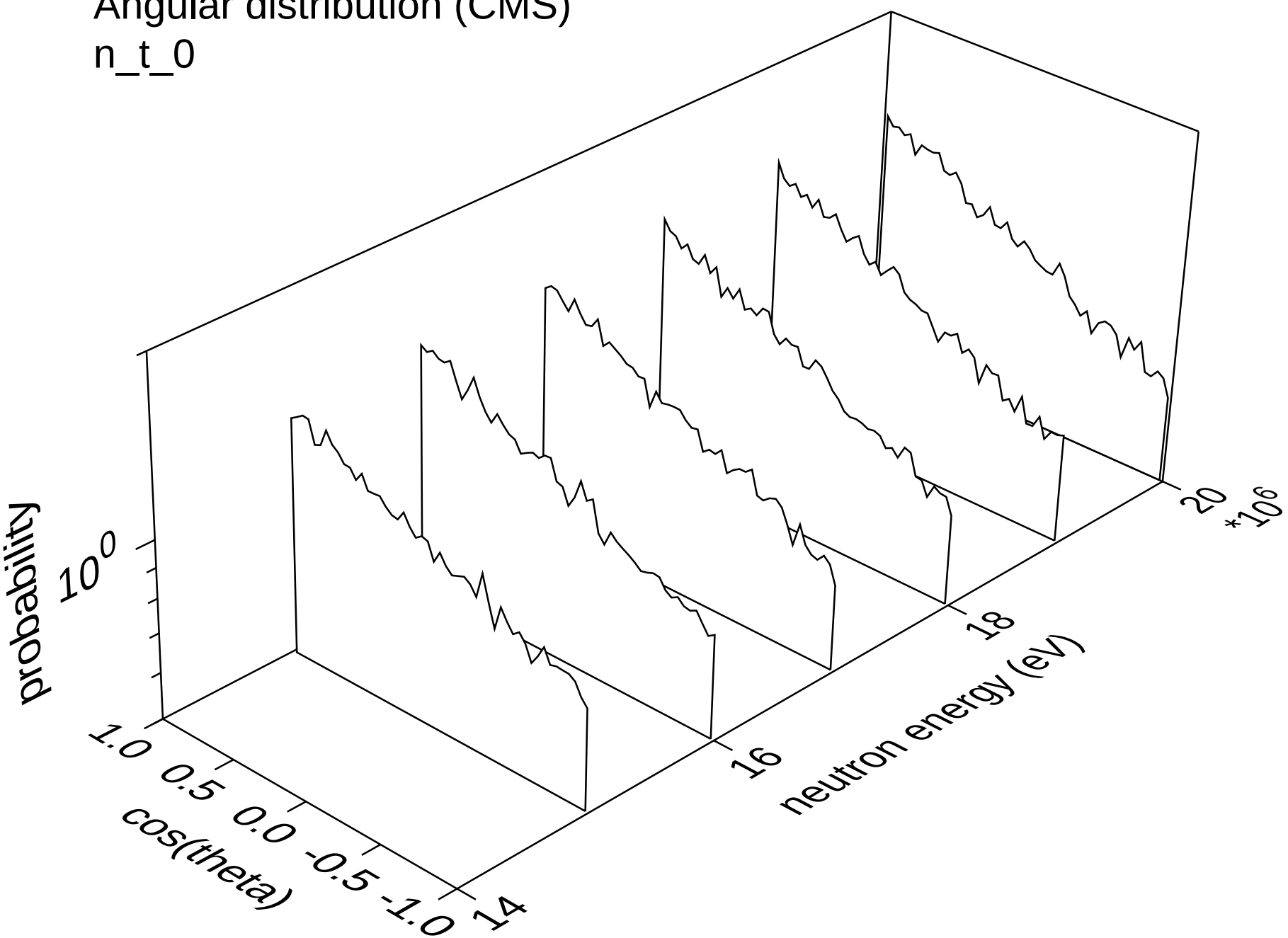

Angular distribution (CMS)
n_d_11
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
14
16
18
20
*10^6
neutron energy (eV)

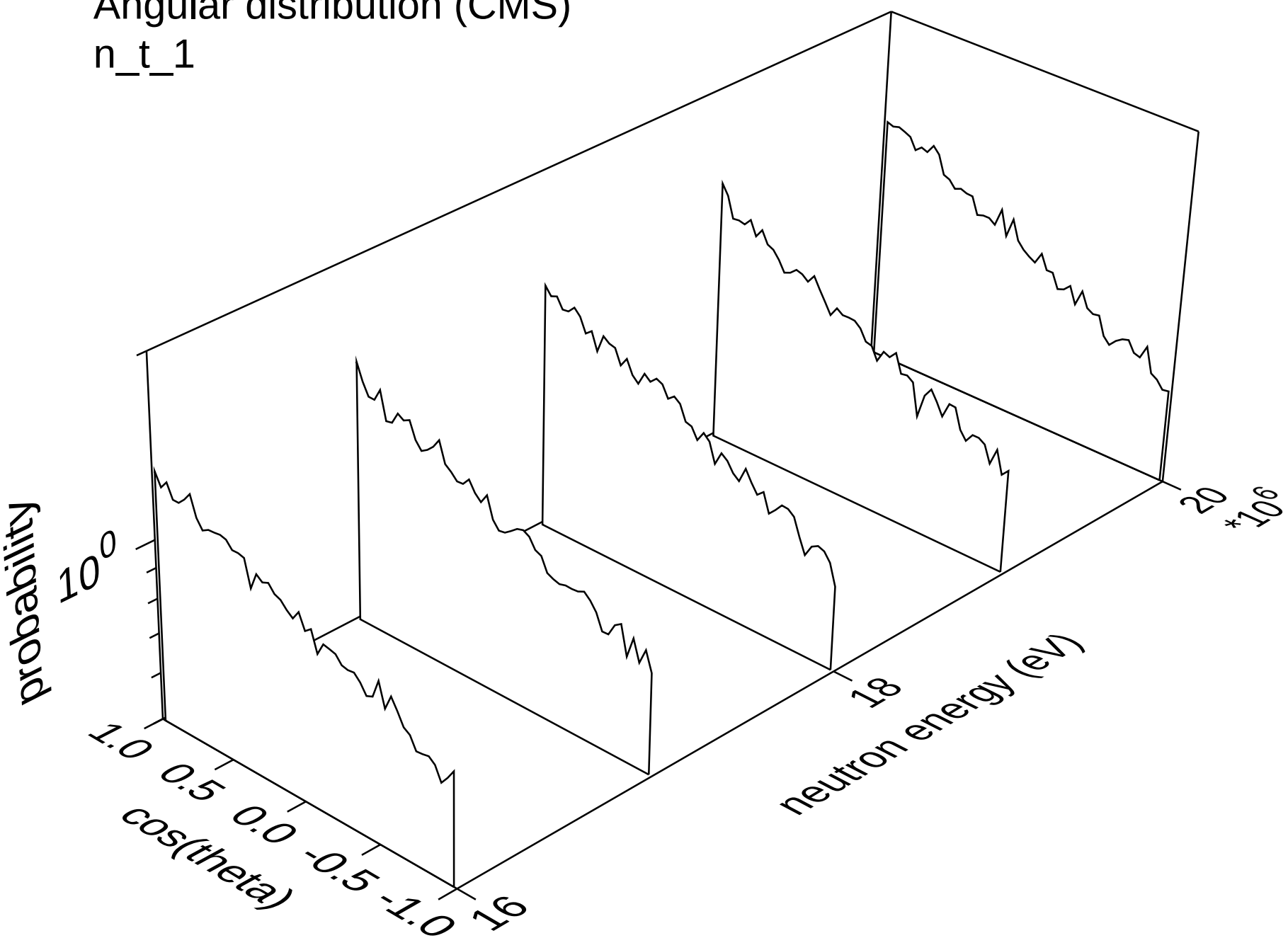

Angular distribution (CMS)
n_d_12
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
14
16
18
20
*10^6
neutron energy (eV)

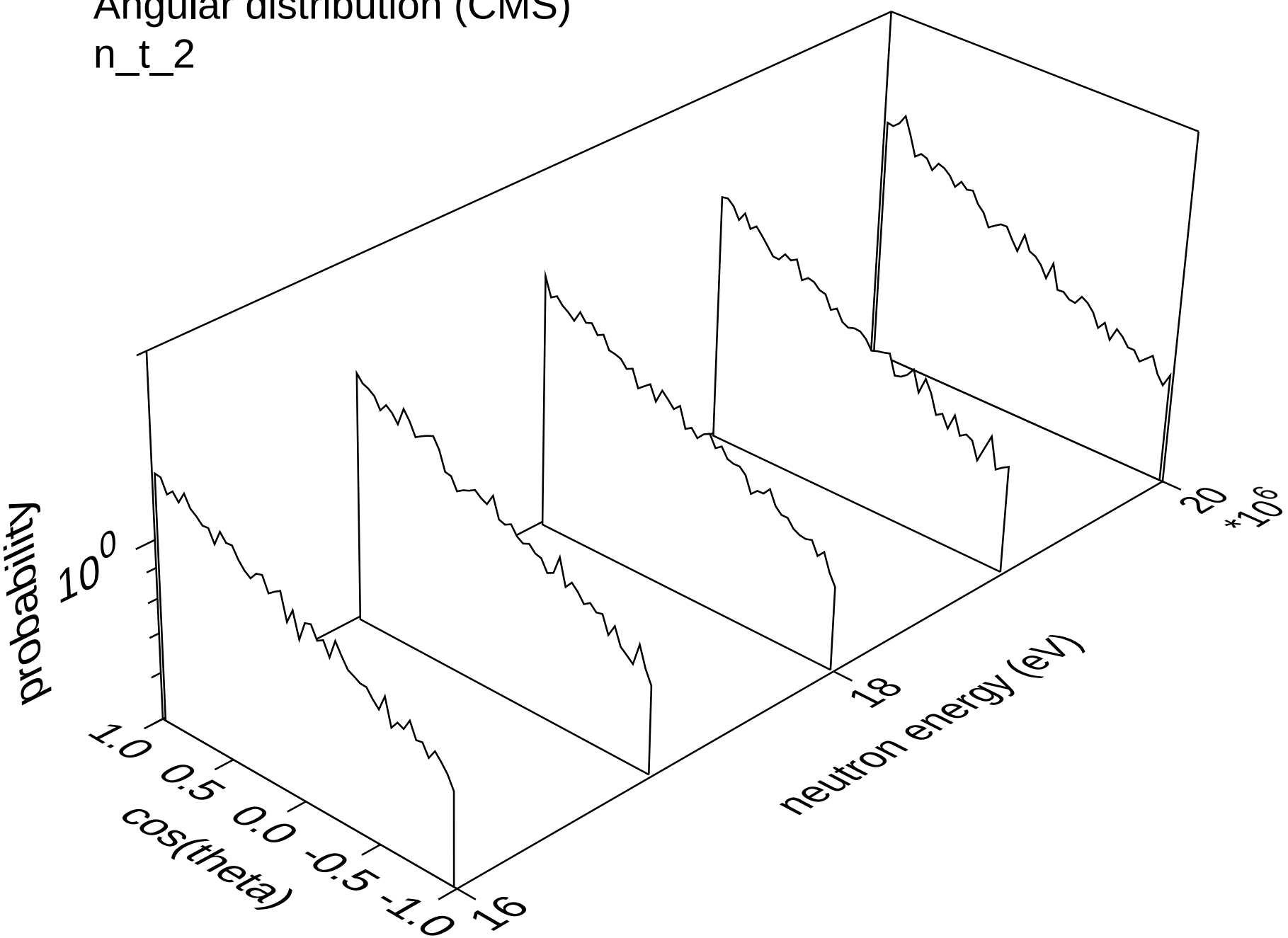

Angular distribution (CMS)
n_d_13
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
14
16
18
20
*10^6
neutron energy (eV)

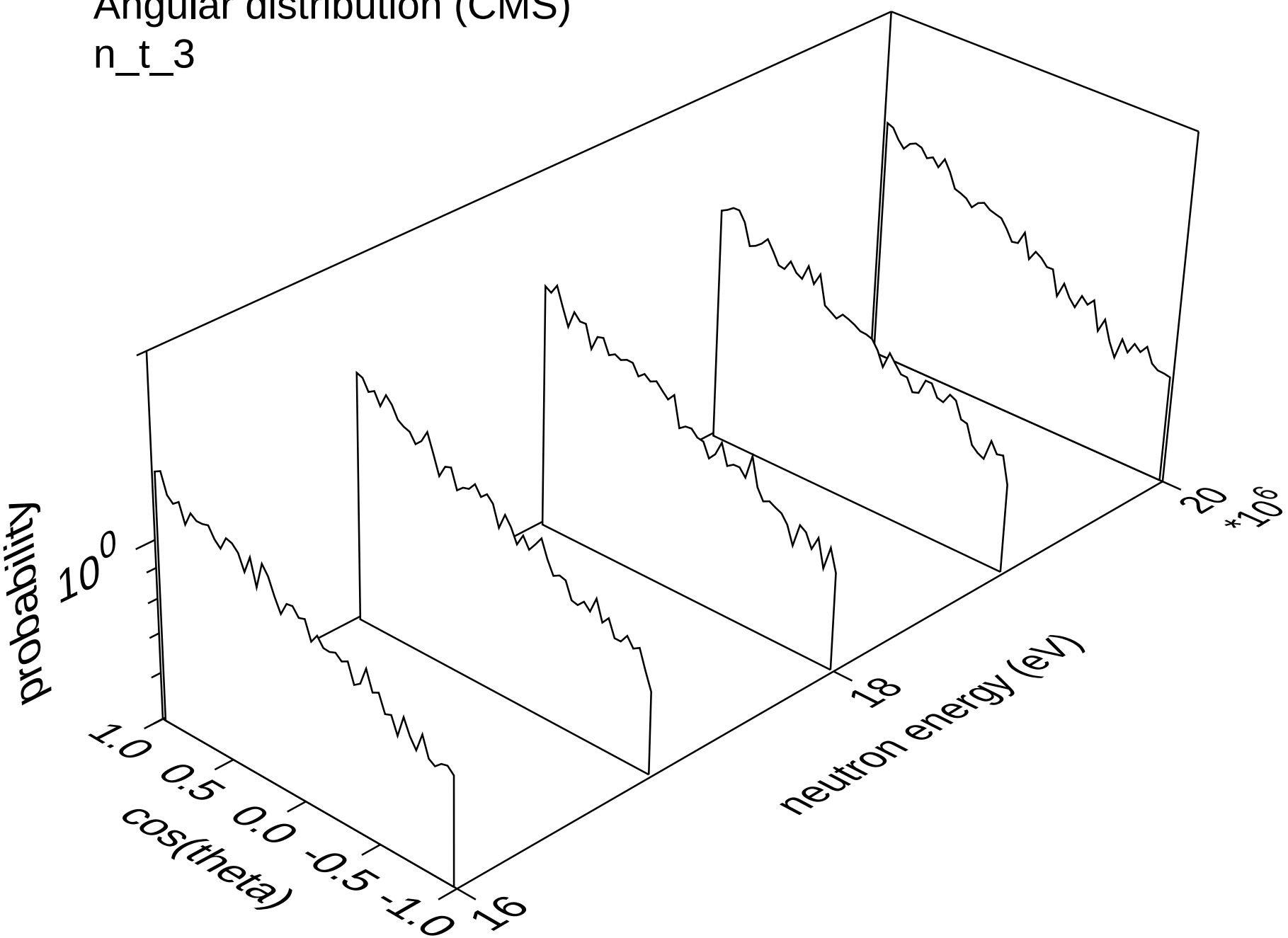

Angular distribution (CMS)
n_d_cont part.=deuteron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
14
16
18
20
*10^6
neutron energy (eV)

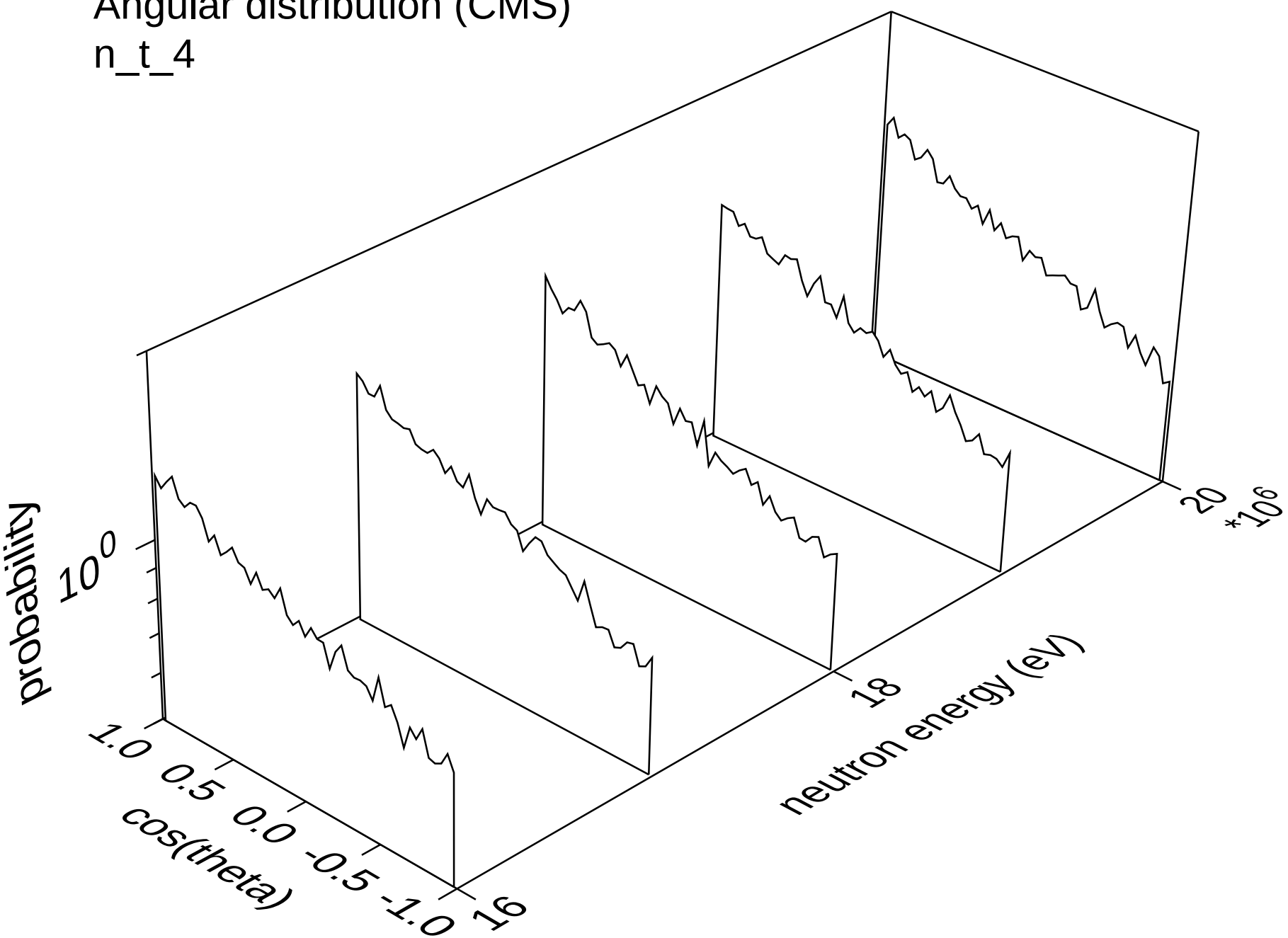

Angular distribution (CMS)
n_d_cont part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
14
16
18
20
*10^6
neutron energy (eV)

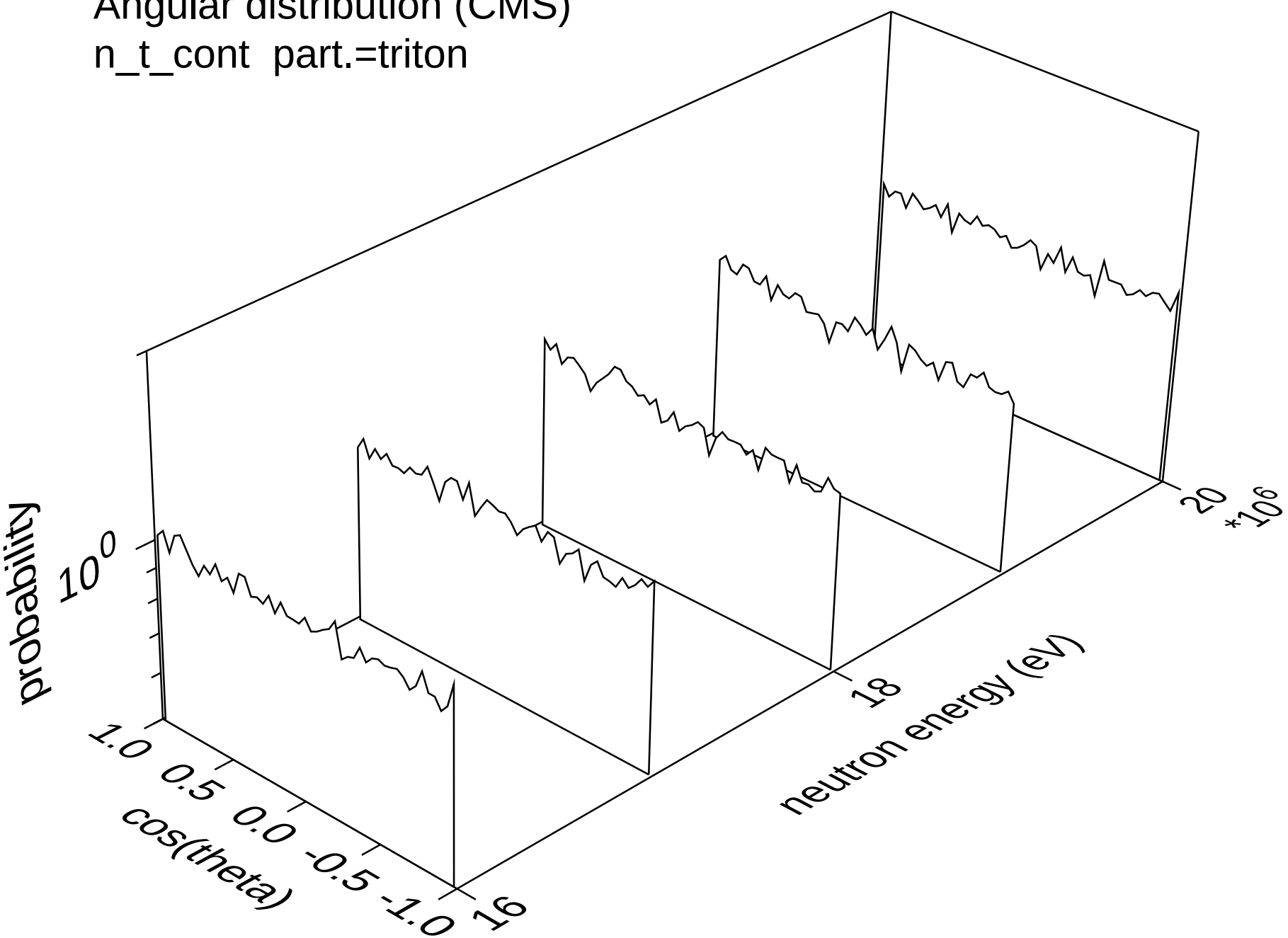

Angular distribution (CMS)
n_t_0
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
14
16
18
20
*10^6
neutron energy (eV)

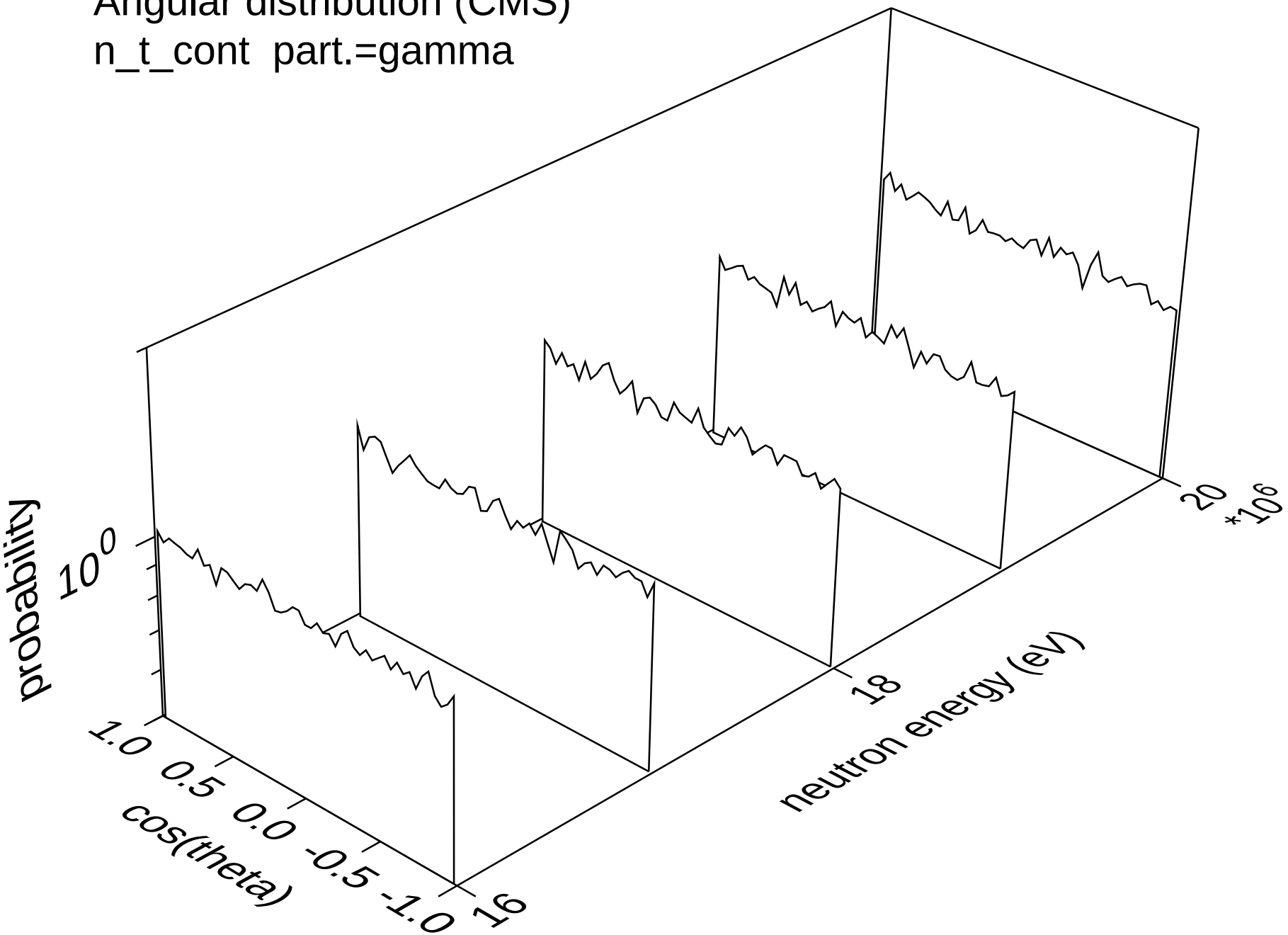

Angular distribution (CMS)
n_t_1
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

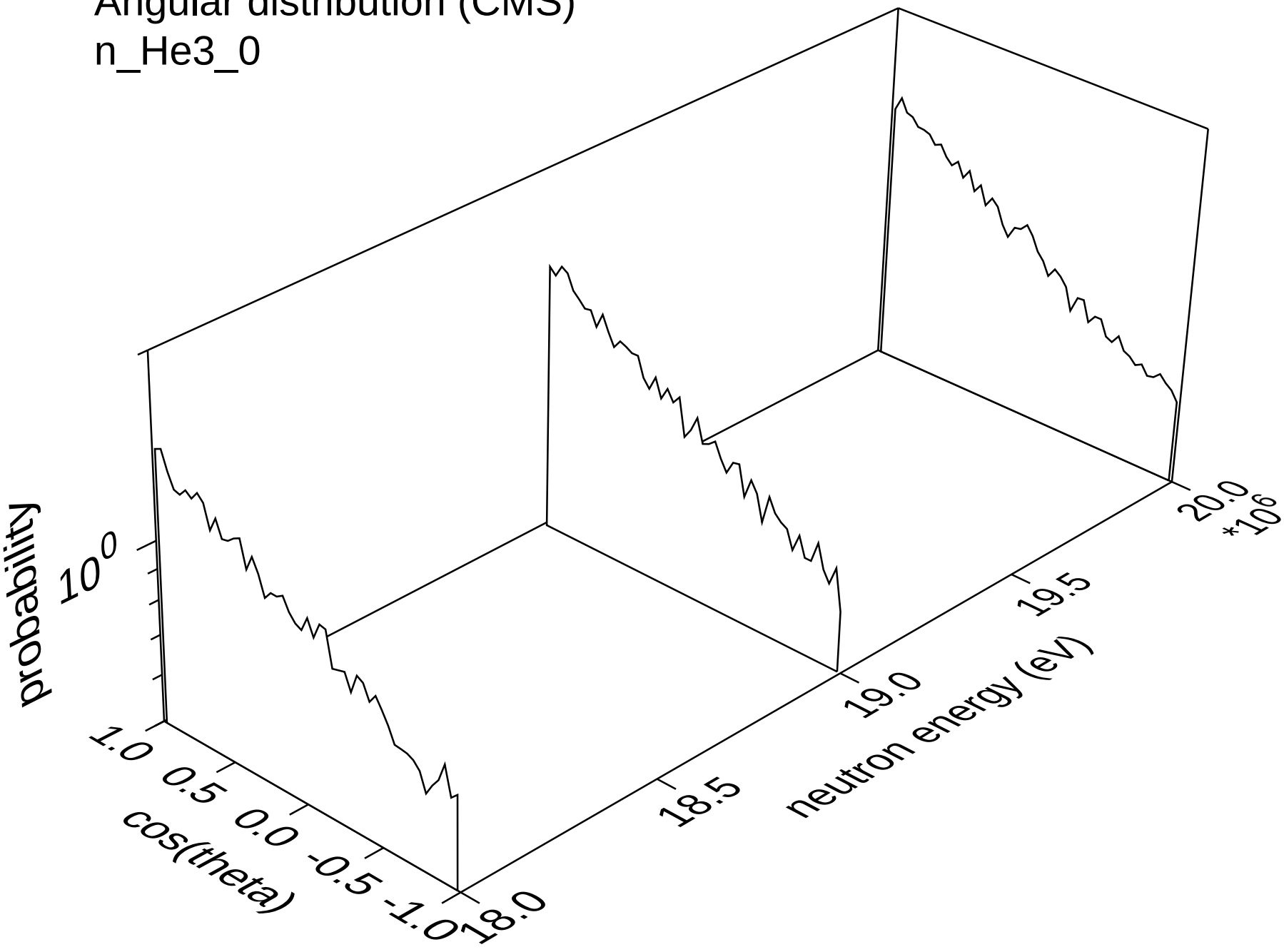

Angular distribution (CMS)
n_t_2
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

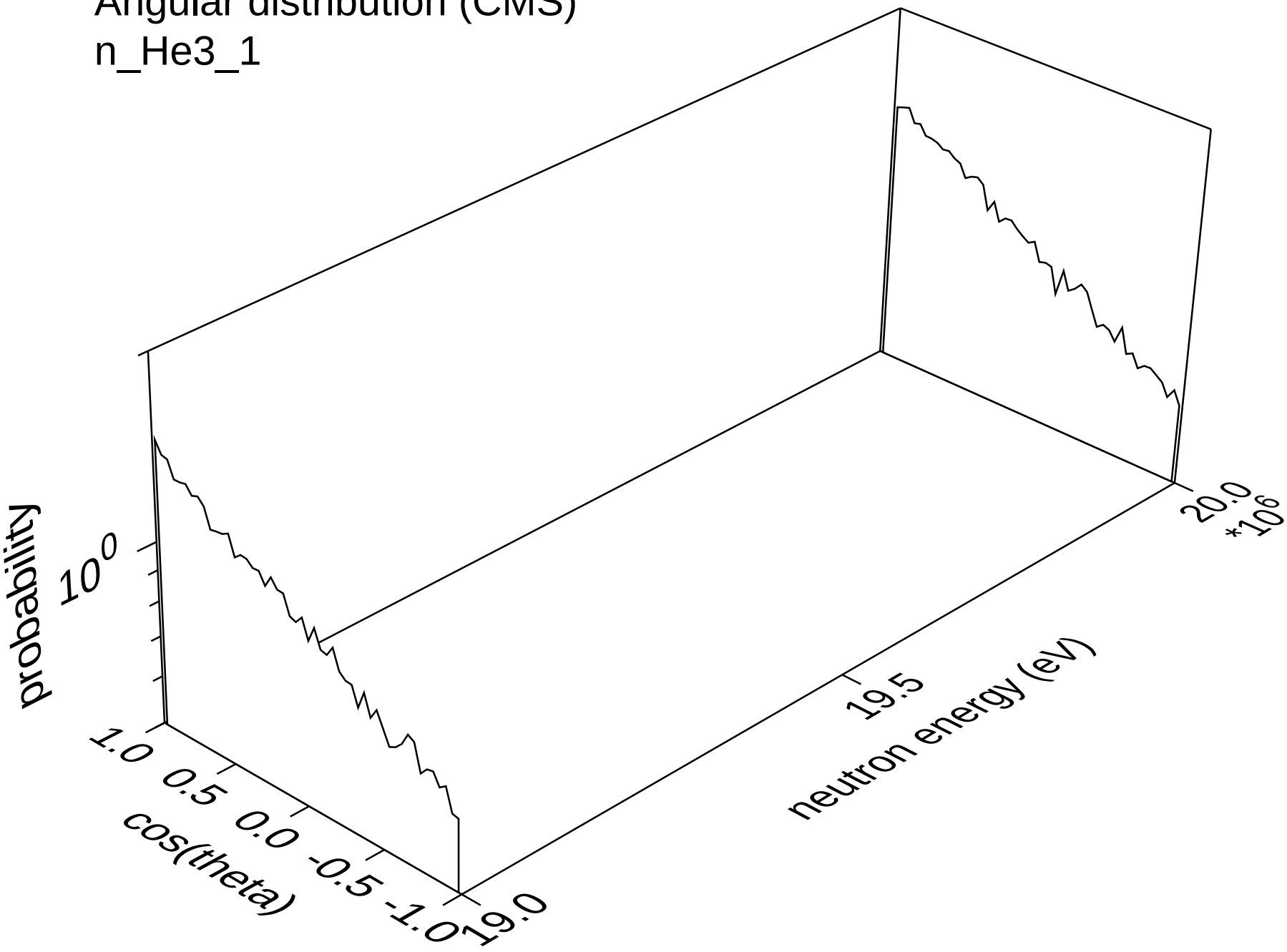

Angular distribution (CMS)
n_t_3
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

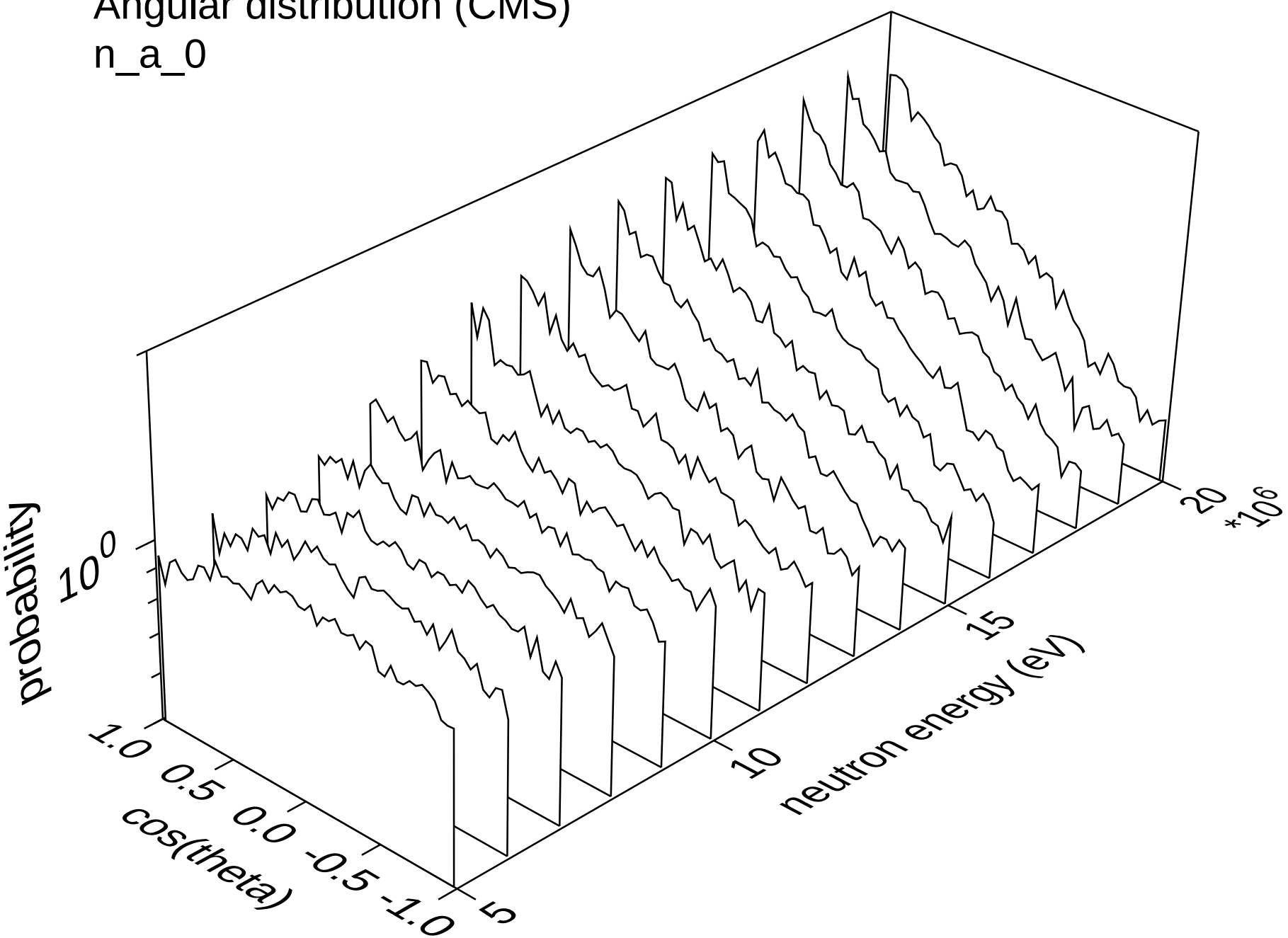

Angular distribution (CMS)
n_t_4
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

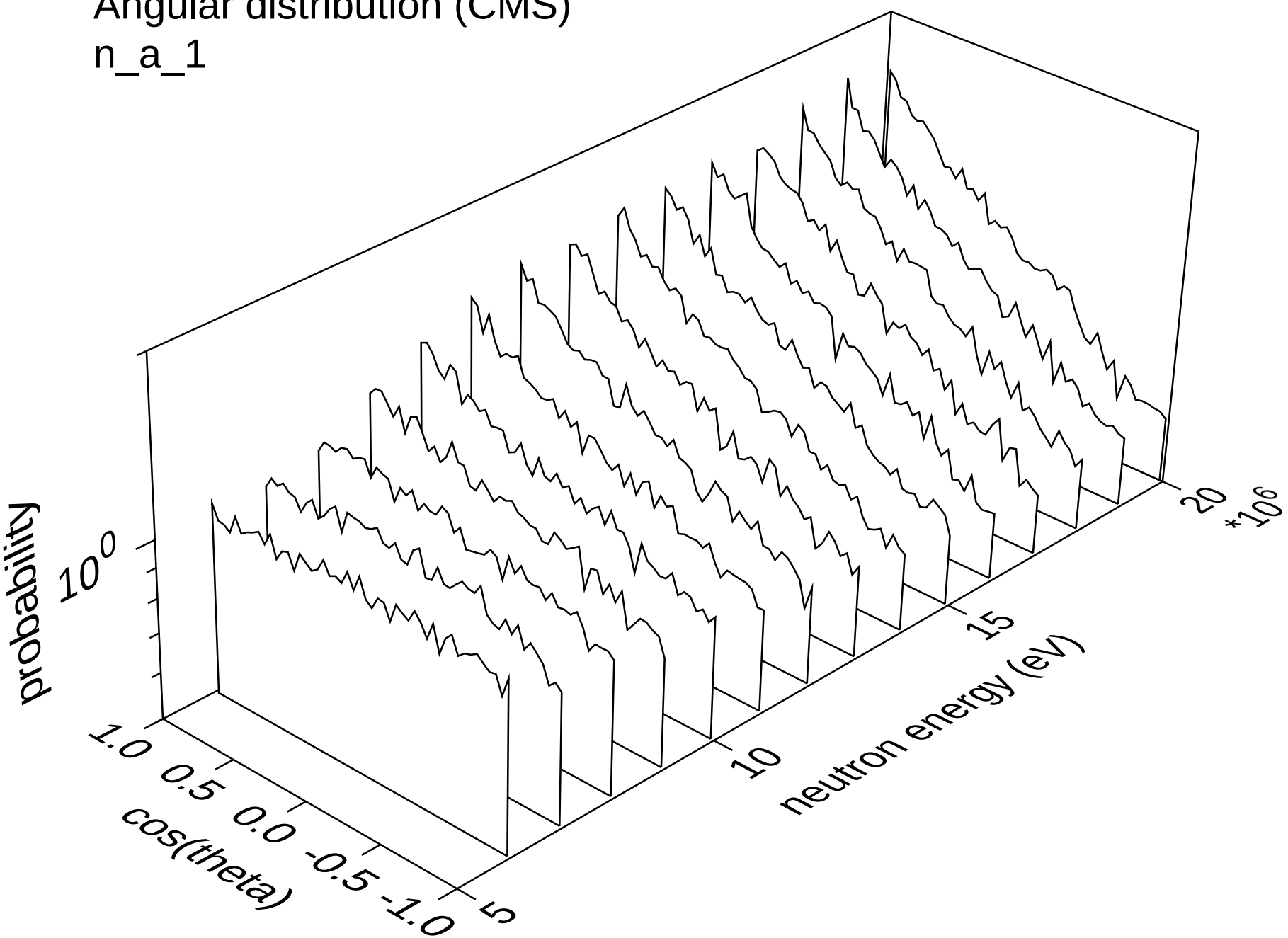

Angular distribution (CMS)
n_t_cont part.=triton
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

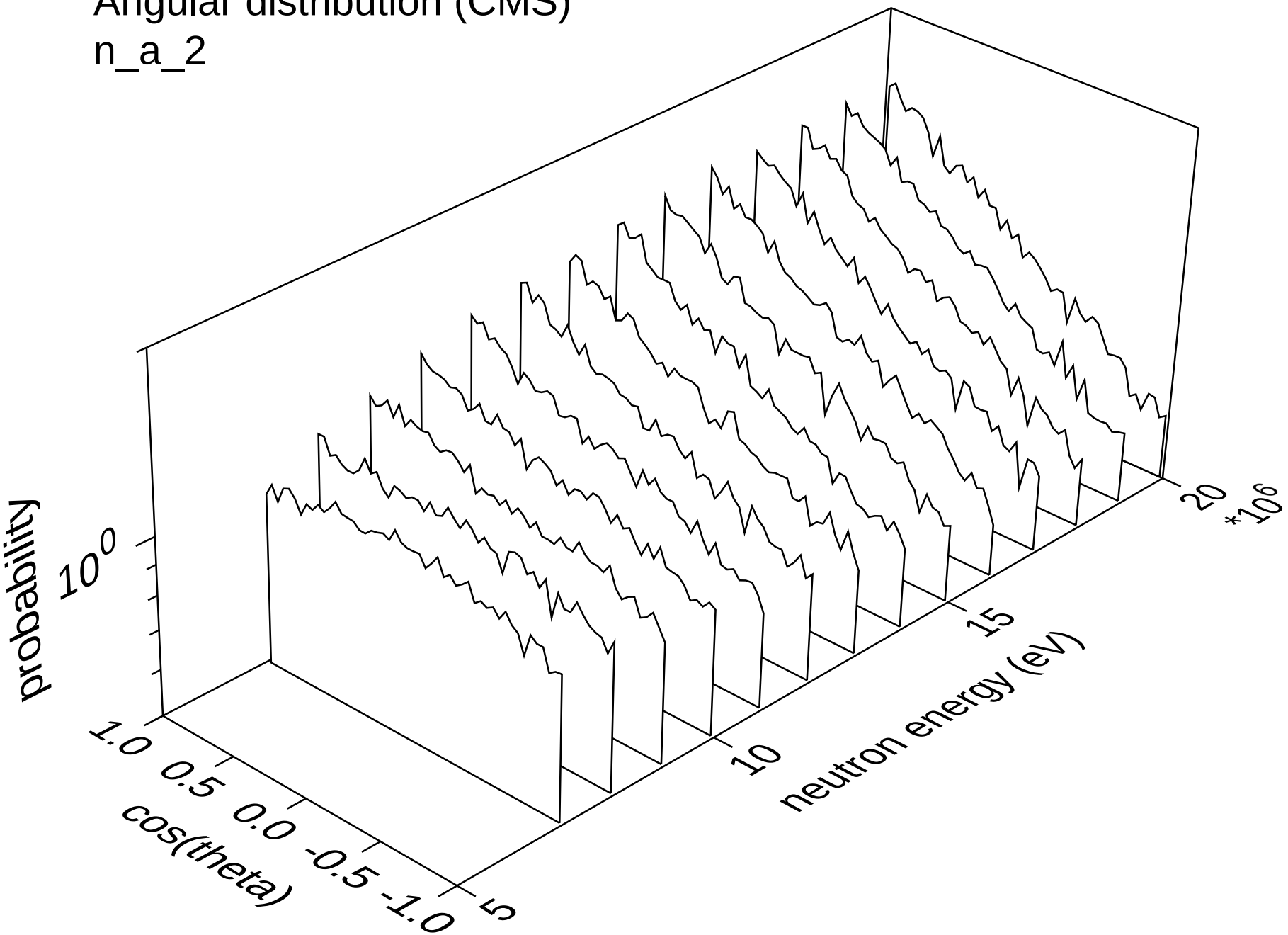

Angular distribution (CMS)
n_t_cont part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

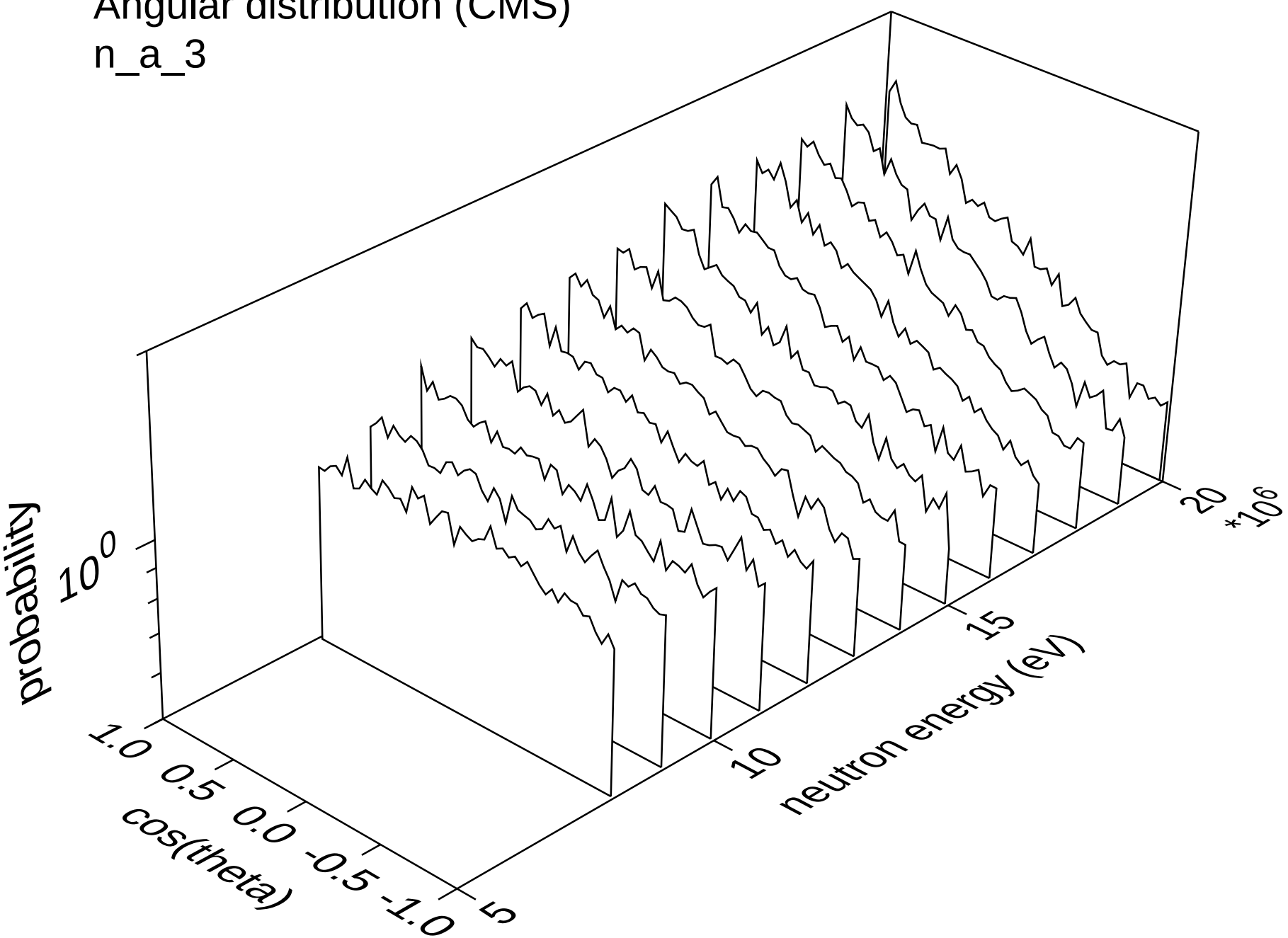

Angular distribution (CMS)
n_He3_0
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

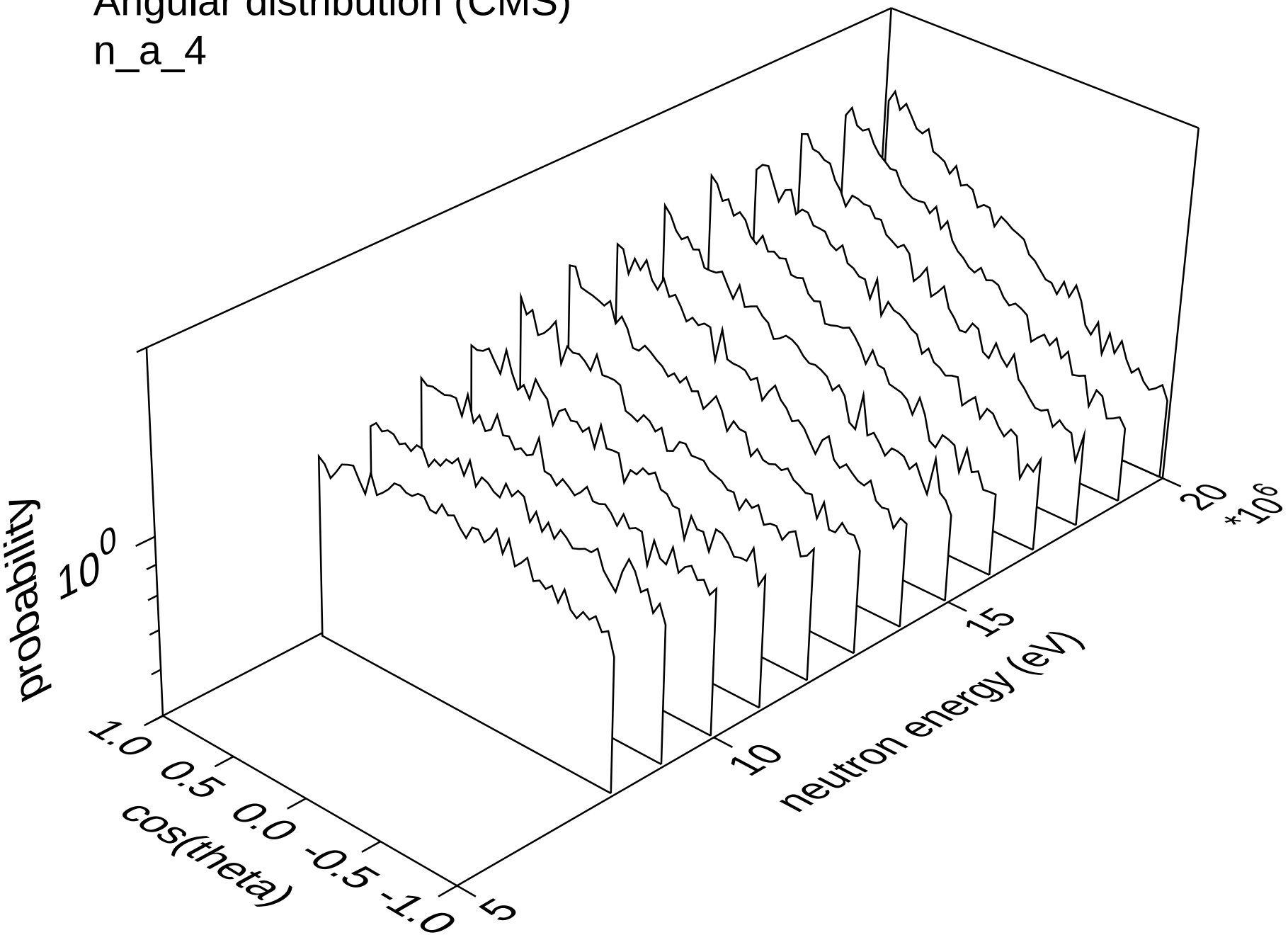

Angular distribution (CMS)
n_He3_1
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
19.0
19.5
20.0
*10^6
neutron energy (eV)

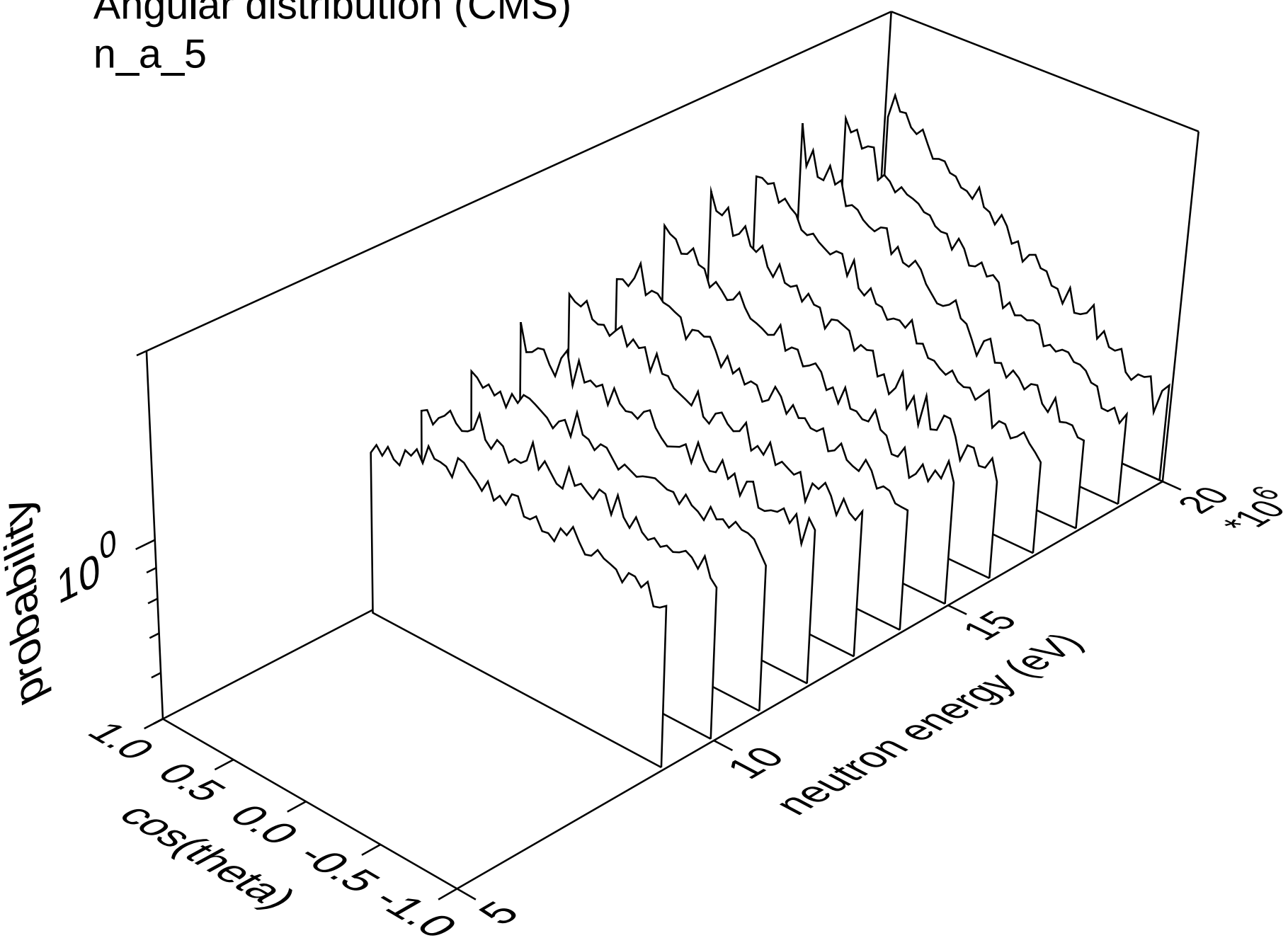

Angular distribution (CMS)
n_a_0
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

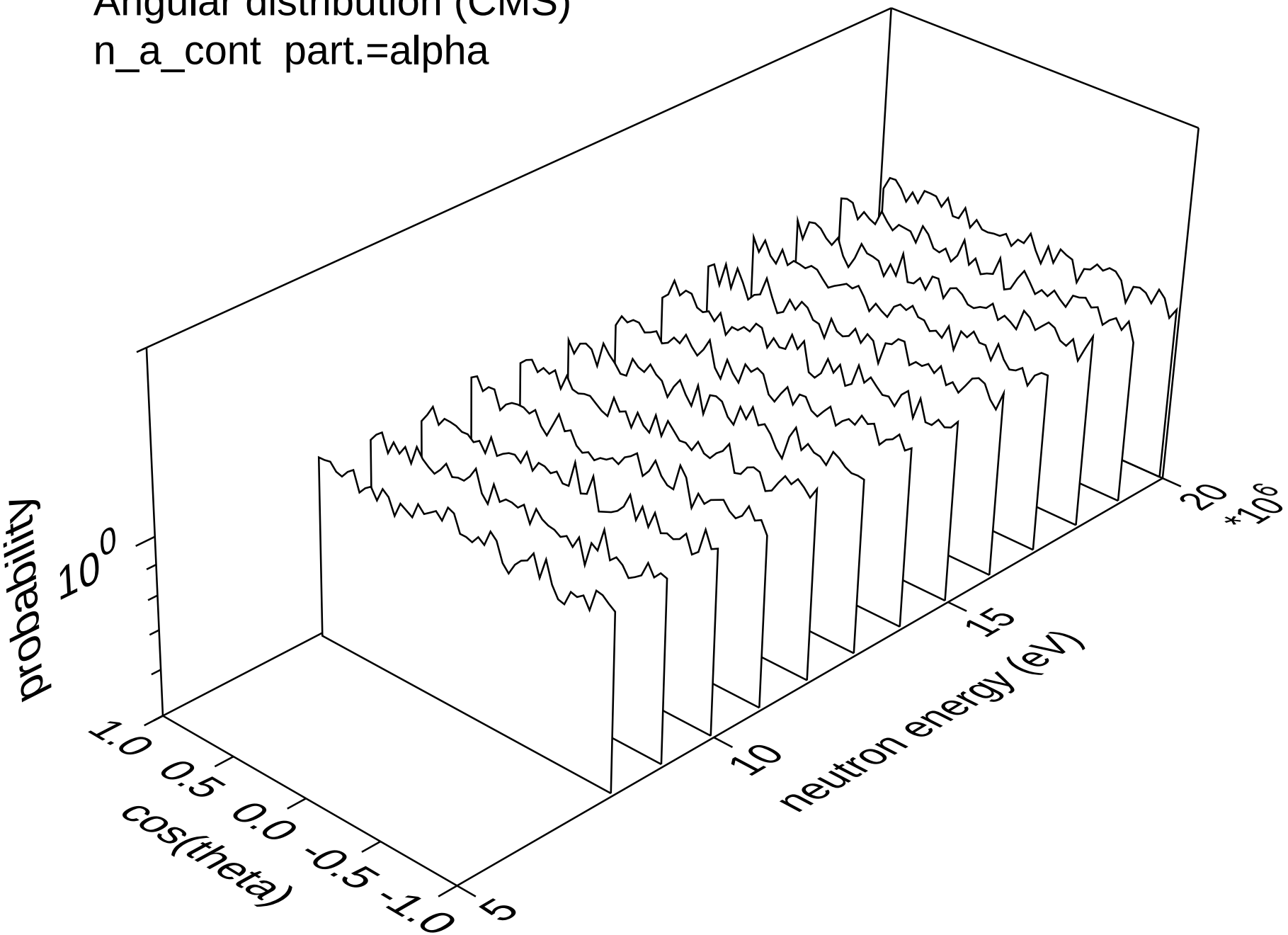

Angular distribution (CMS)
n_a_1
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

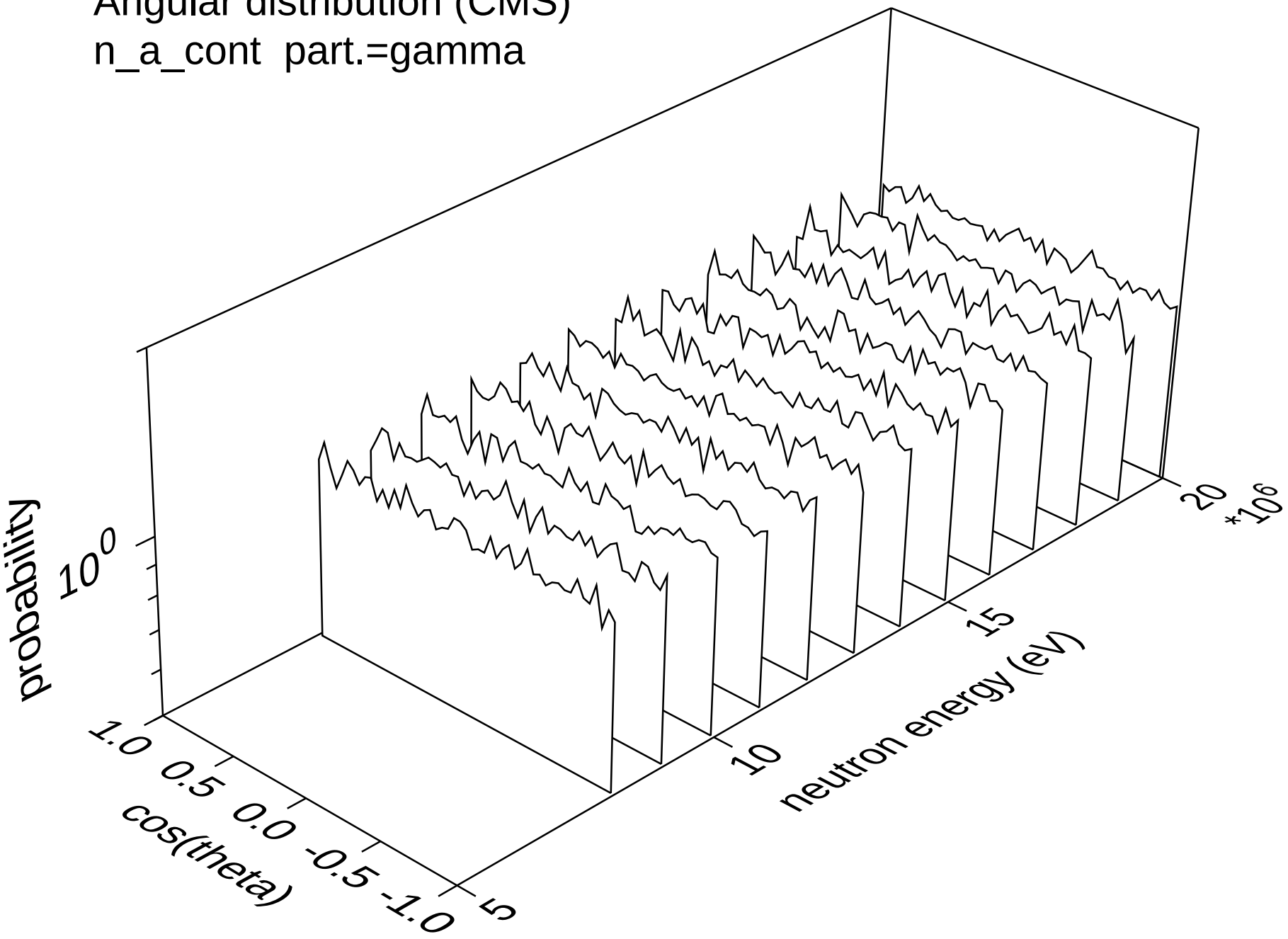

Angular distribution (CMS)
n_a_2
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

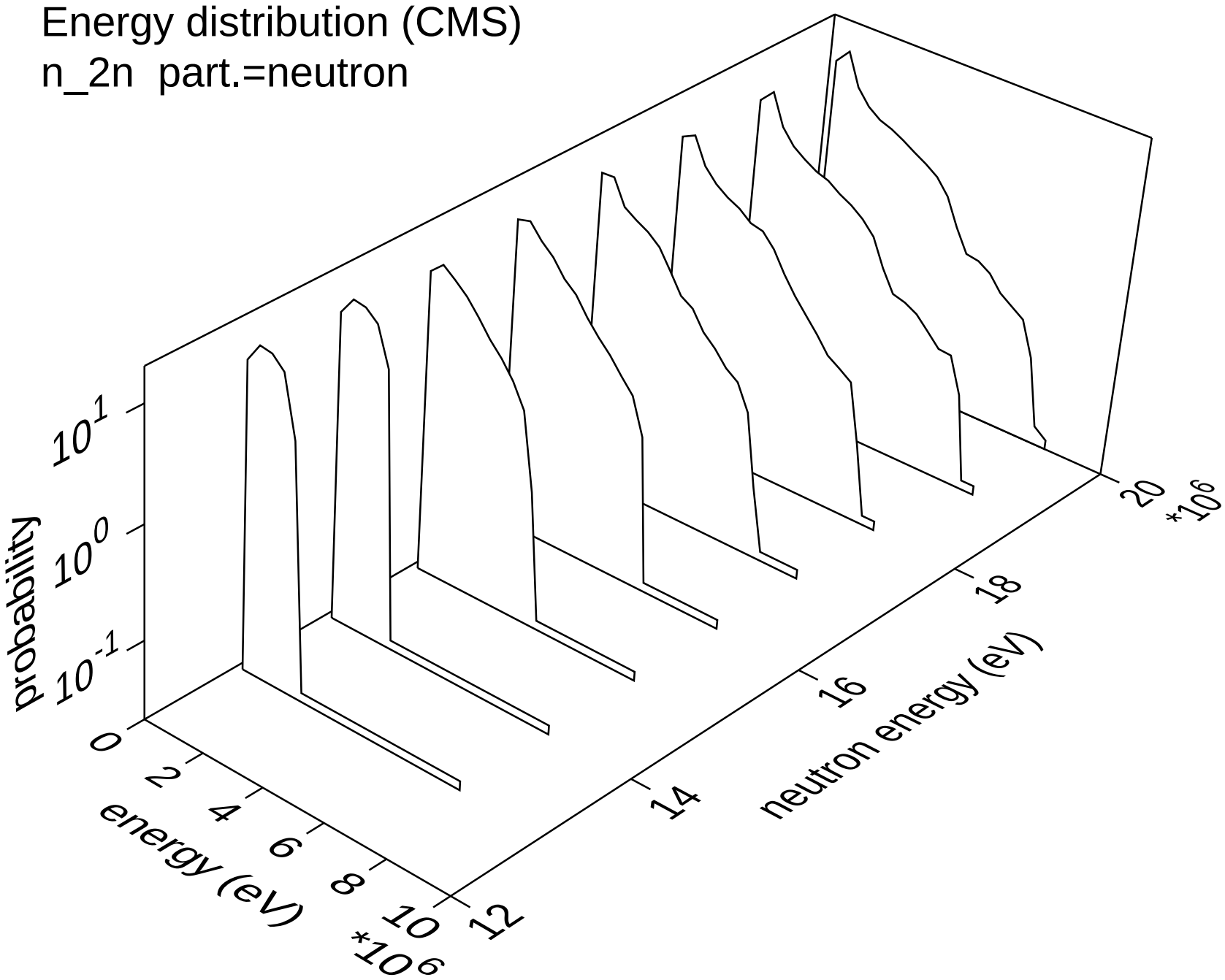

Angular distribution (CMS)
n_a_3
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

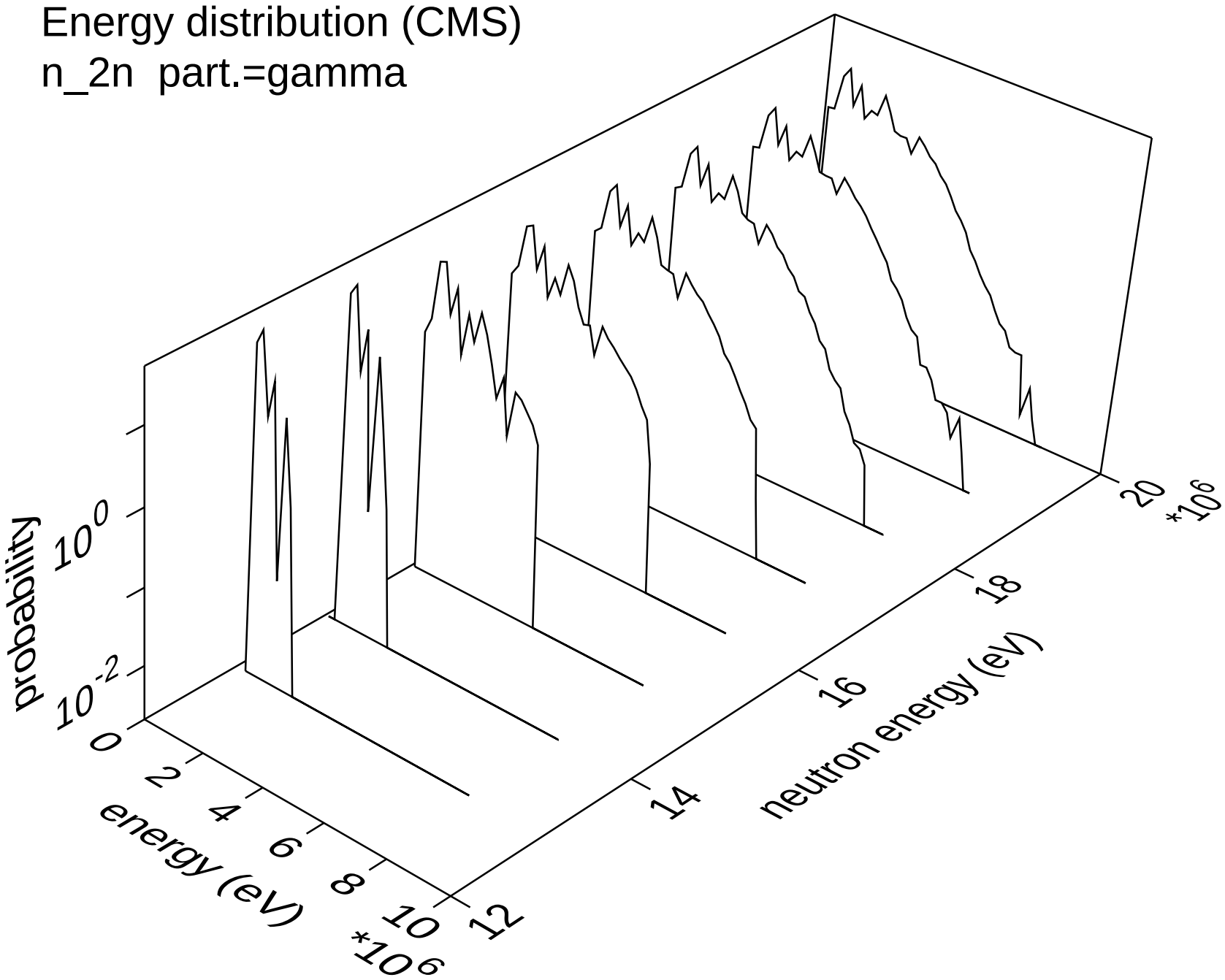

Angular distribution (CMS)
n_a_4
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

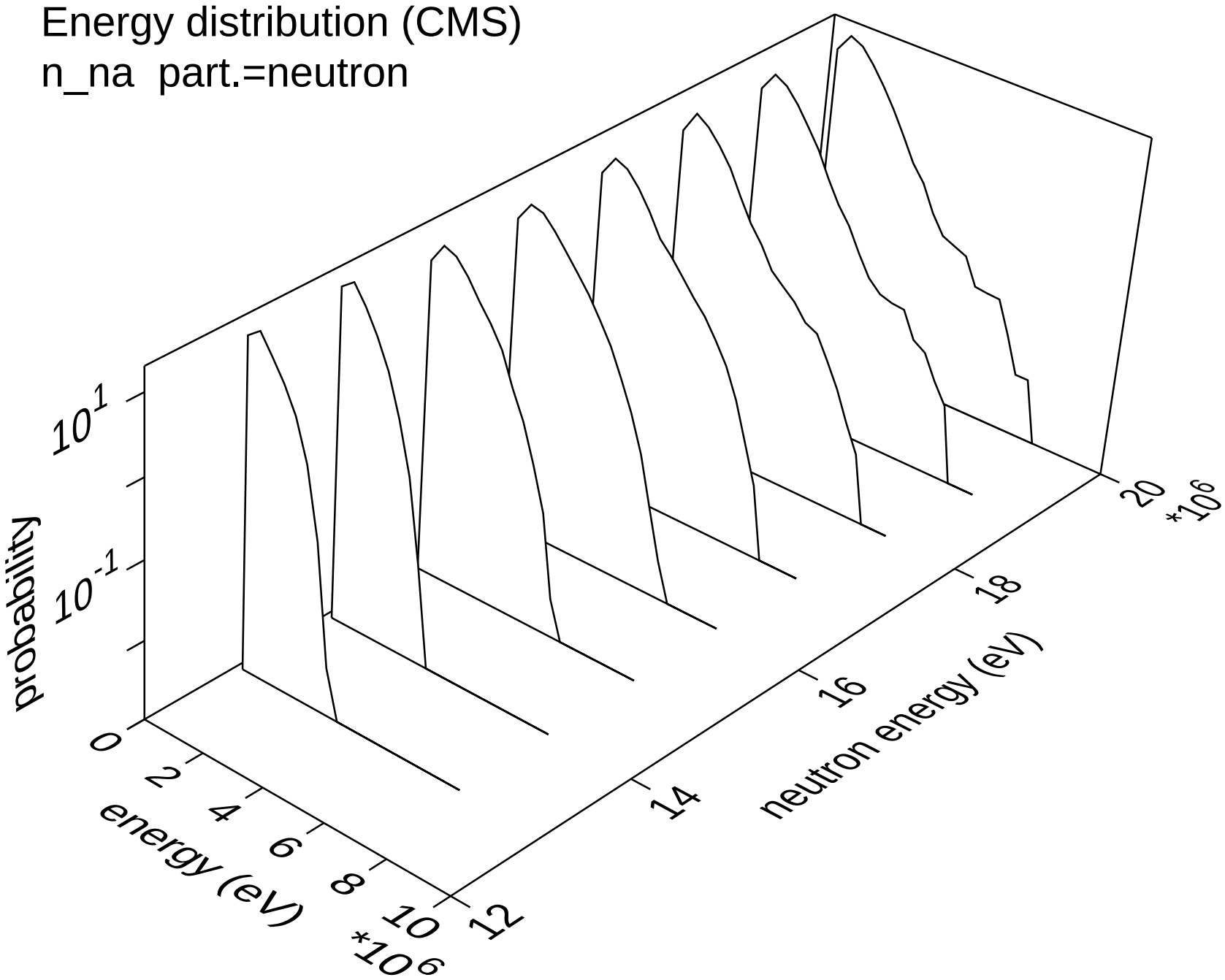

Angular distribution (CMS)
n_a_5
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

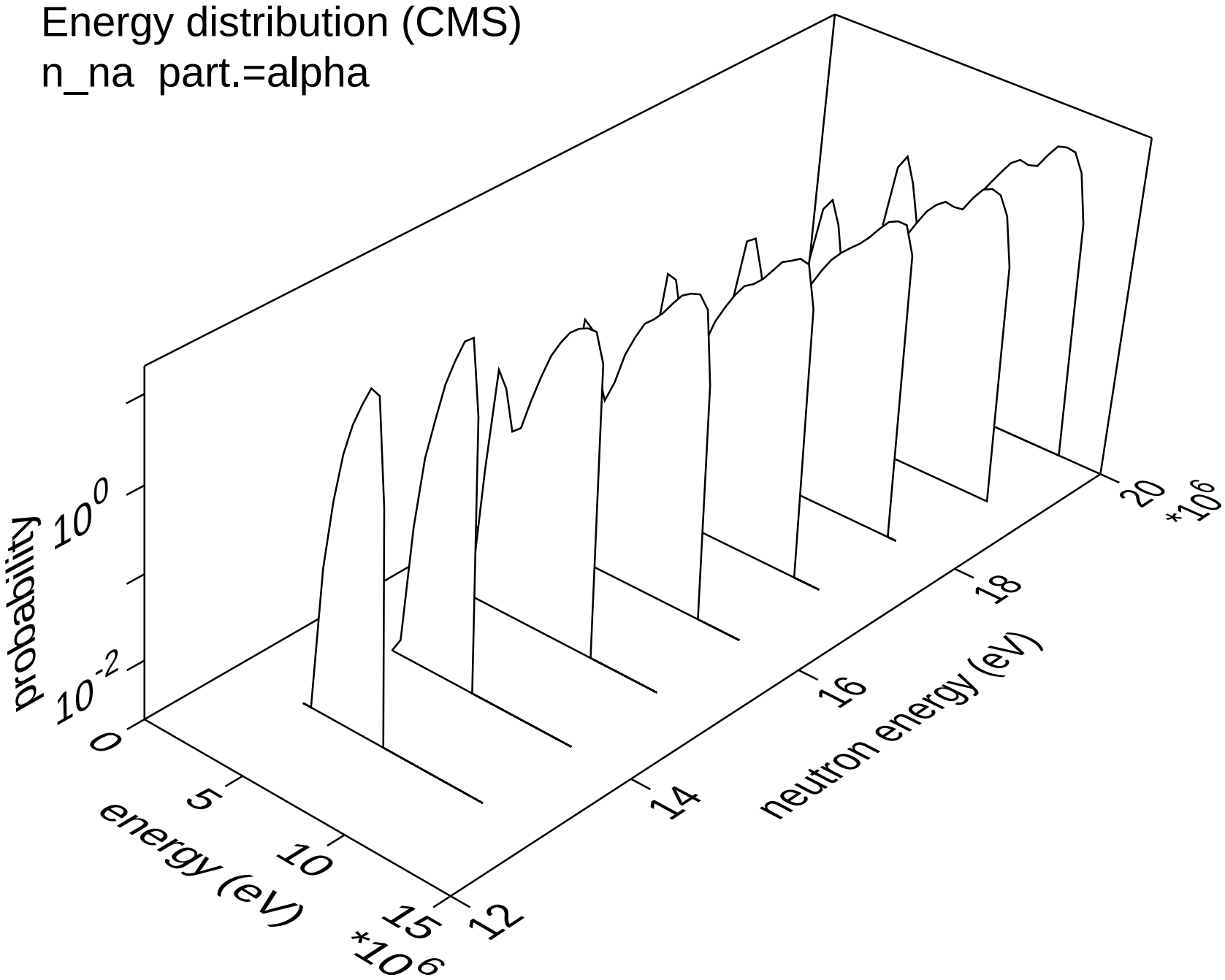

Angular distribution (CMS)
n_a_cont part.=alpha
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

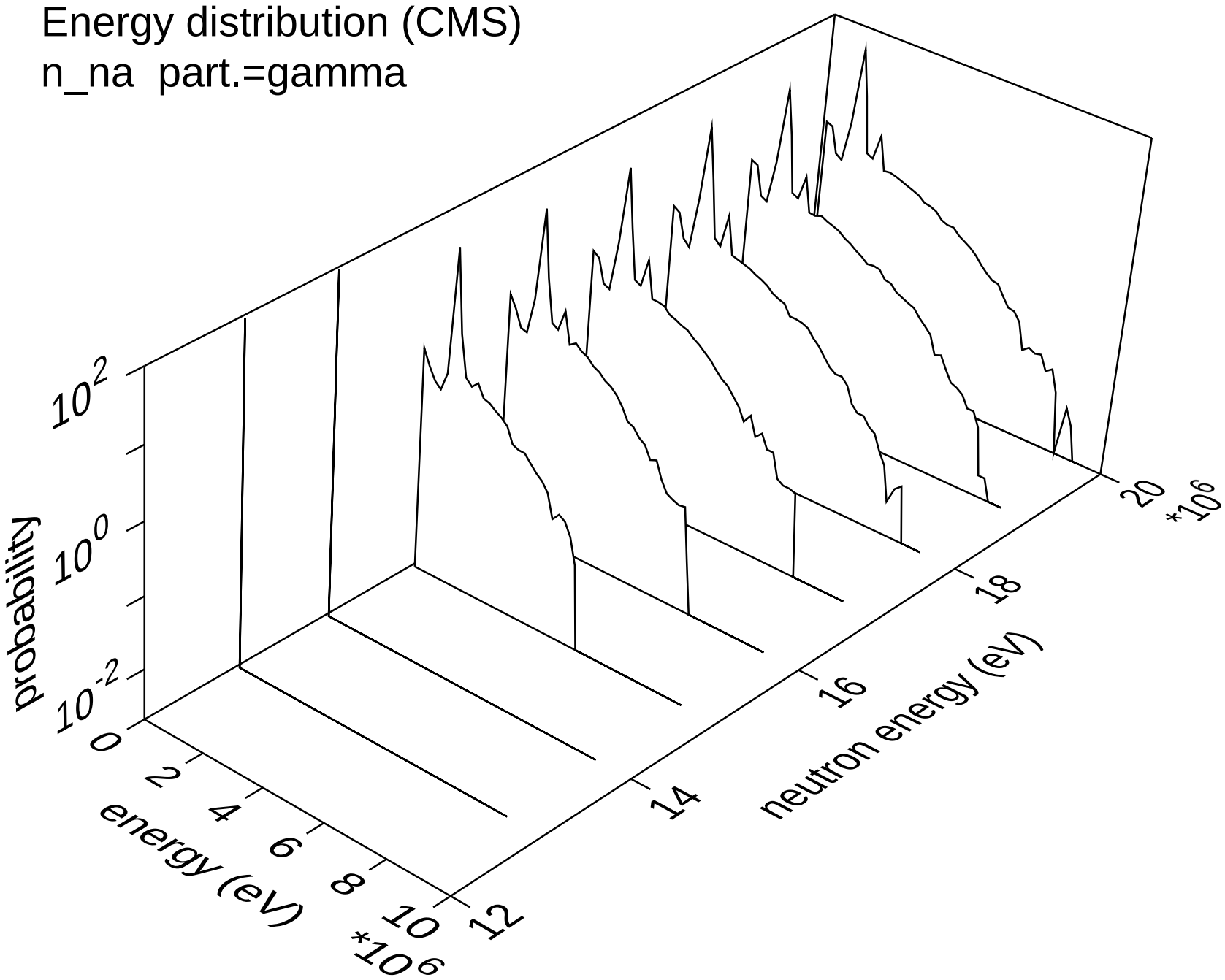

Angular distribution (CMS)
n_a_cont part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10⁶
neutron energy (eV)

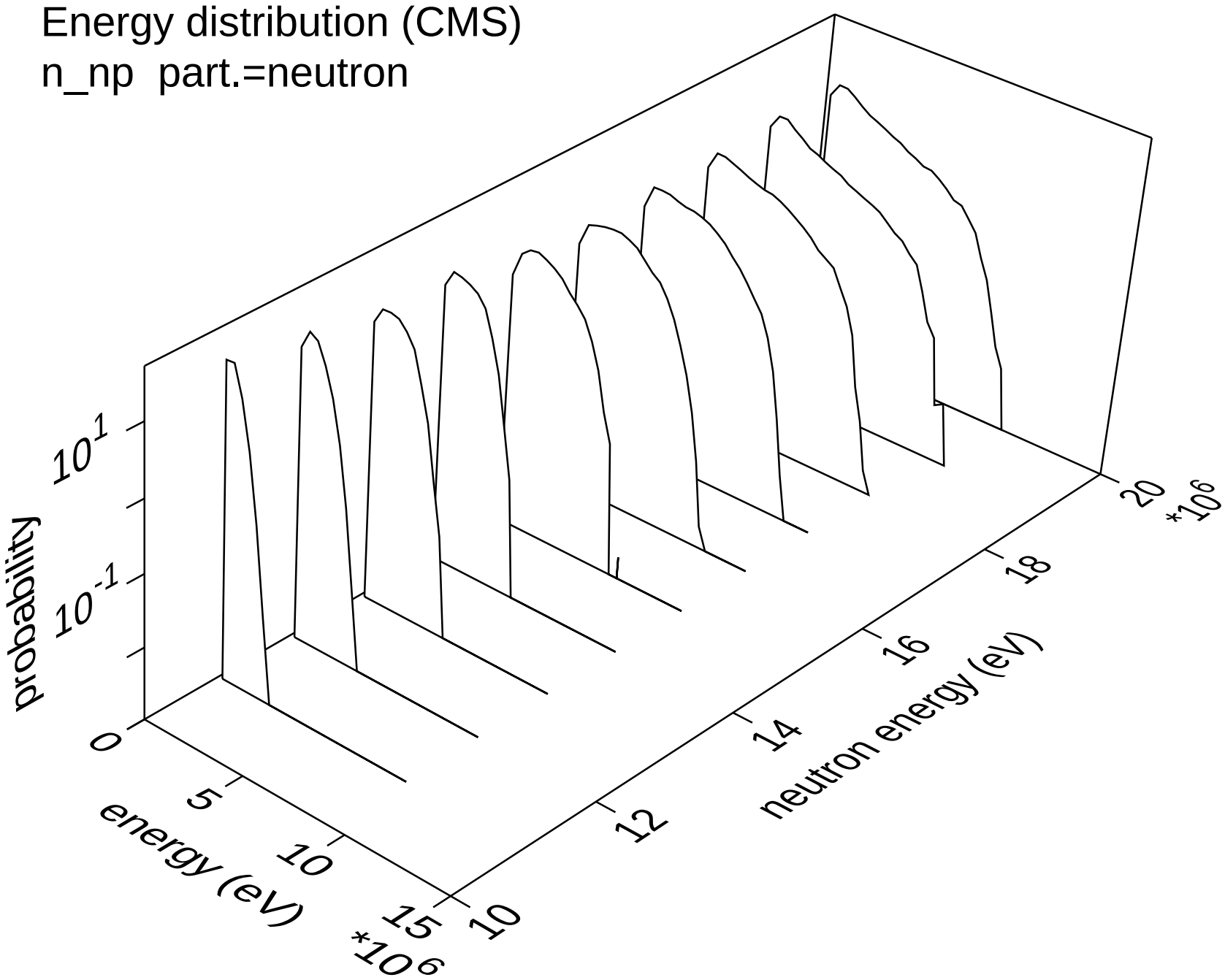

Energy distribution (CMS)
n_2n part.=neutron
probability
10^{1}
10^{0}
10^{-1}
0
2
4
6
8
10
12
energy (eV)
*10^6
14
16
18
20
neutron energy (eV)
*10^6

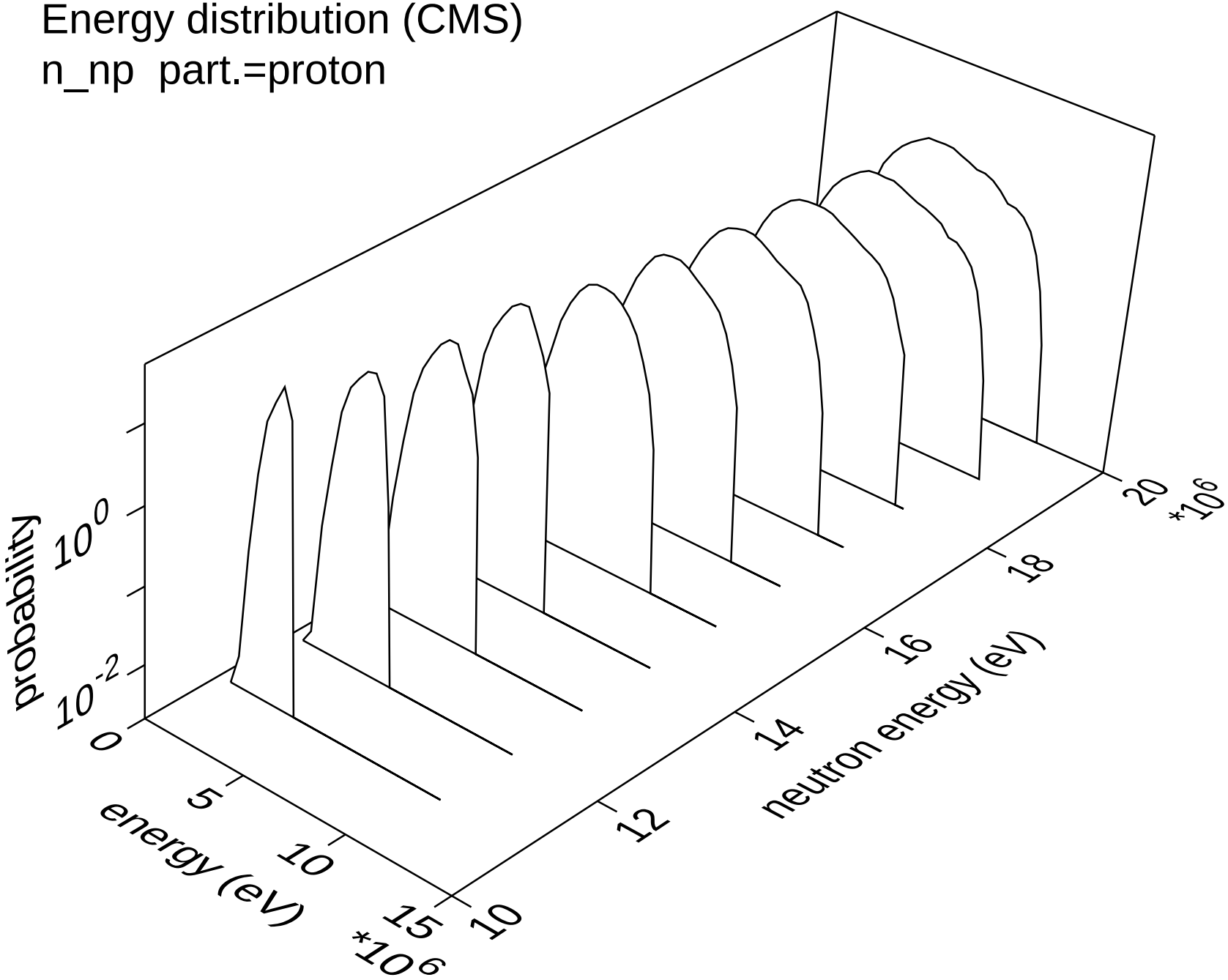

Energy distribution (CMS)
n_2n part.=gamma
probability
10^0
10^{-2}
0
2
4
6
8
10
12
energy (eV)
*10^6
14
16
18
20
neutron energy (eV)
*10^6

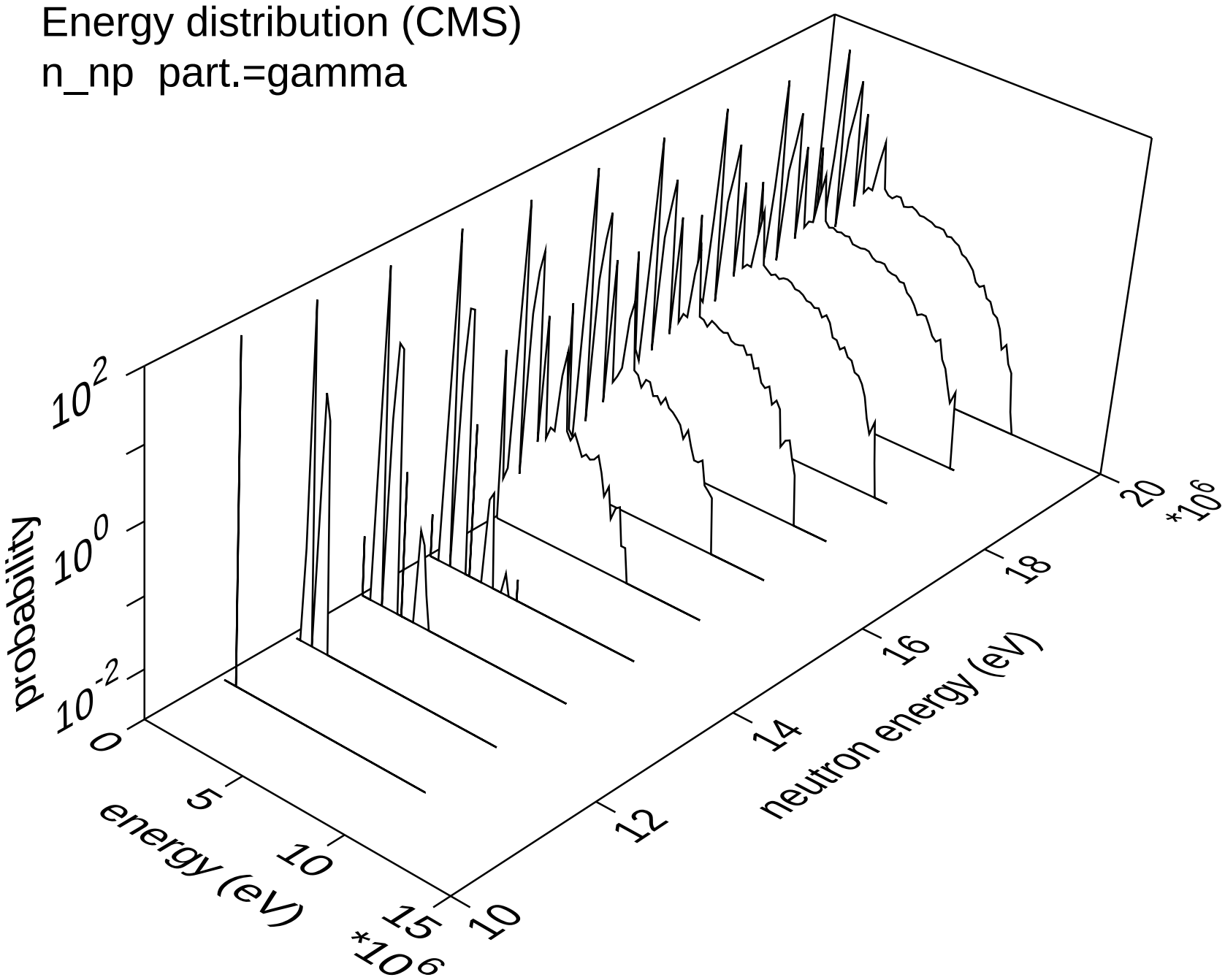

Energy distribution (CMS)
n_na part.=neutron
probability
10^{1}
10^{-1}
0
2
4
6
8
10
12
energy (eV)
*10^6
14
16
18
20
neutron energy (eV)
*10^6

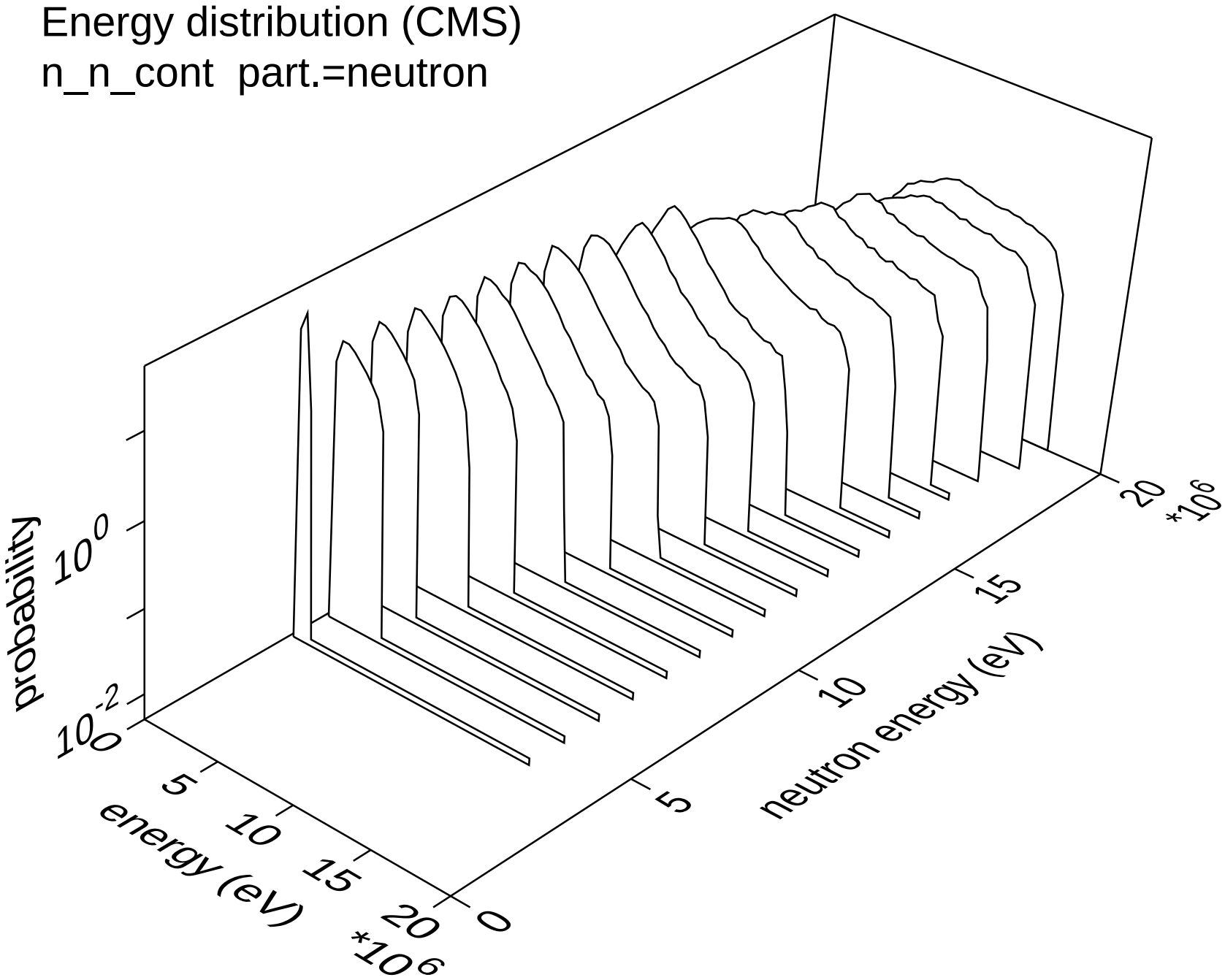

Energy distribution (CMS)
n_na part.=alpha
probability
10^0
10^{-2}
0
5
10
15
*10^6
energy (eV)
12
14
16
18
20
*10^6
neutron energy (eV)

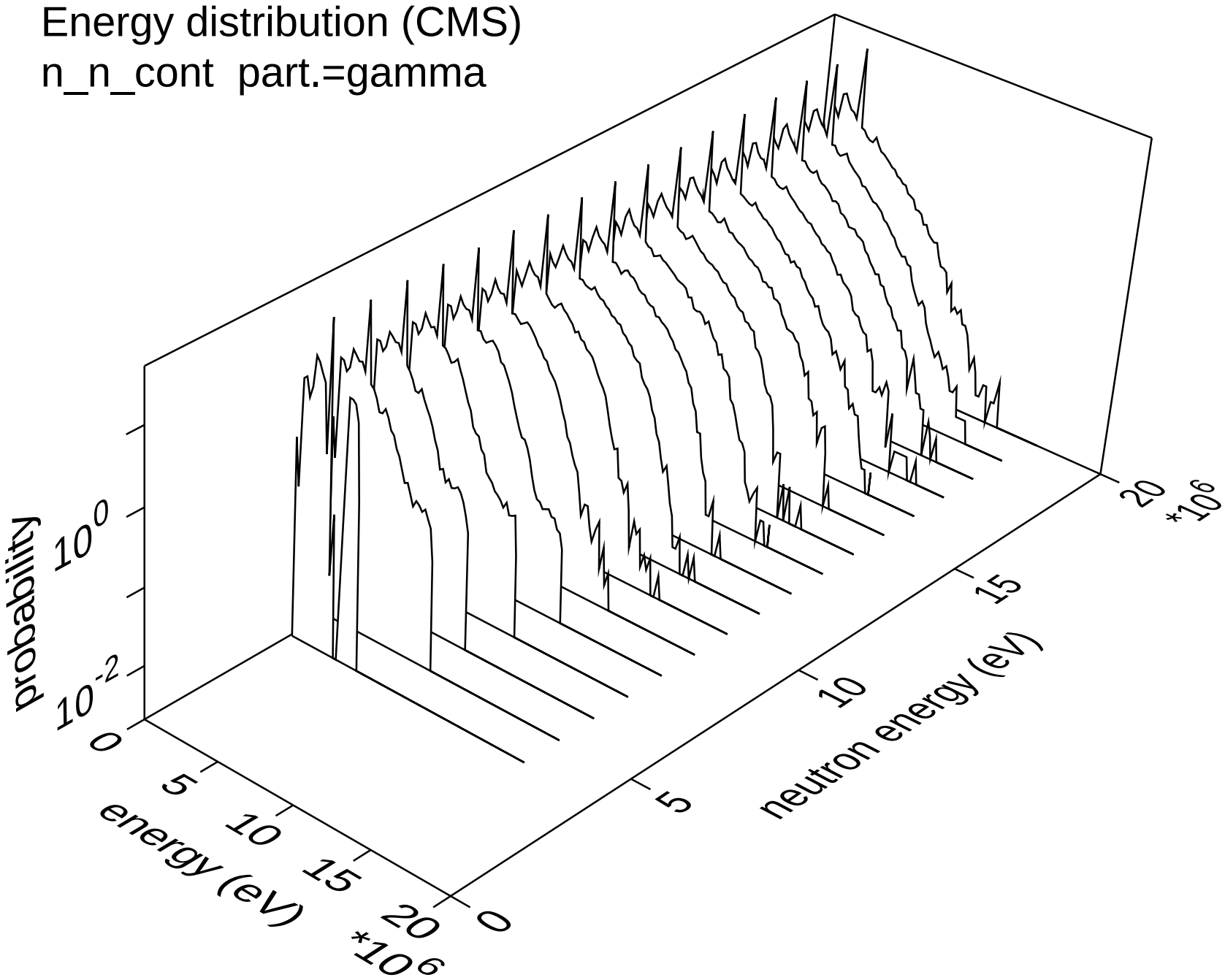

Energy distribution (CMS)
n_na part.=gamma
probability
10^{2}
10^{0}
10^{-2}
0
2
4
6
8
10
12
*10^6
energy (eV)
14
16
18
20
*10^6
neutron energy (eV)

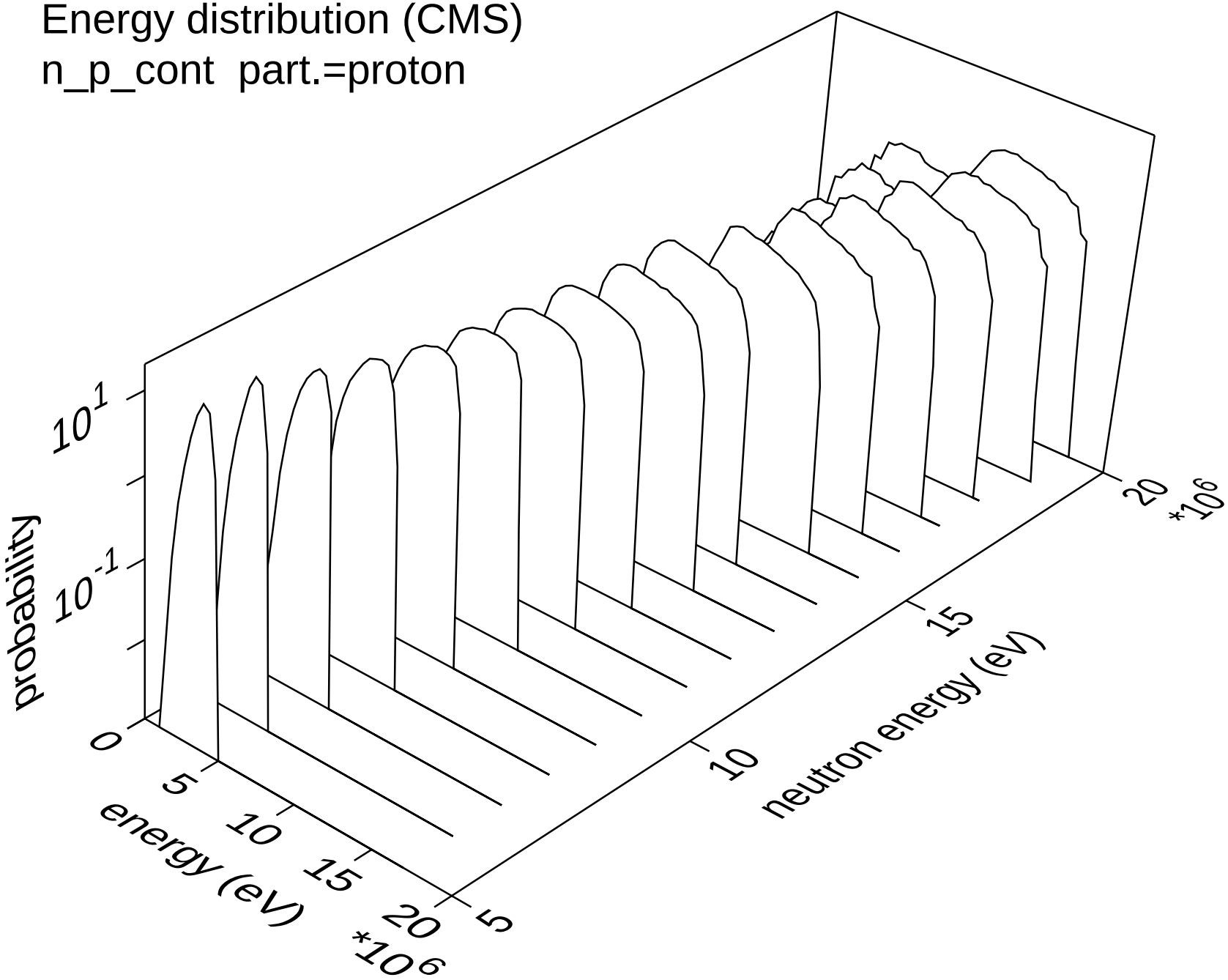

Energy distribution (CMS)
n_np part.=neutron
probability
10^{1}
10^{-1}
0
5
10
15
*10^6
energy (eV)
10
12
14
16
18
20
*10^6
neutron energy (eV)

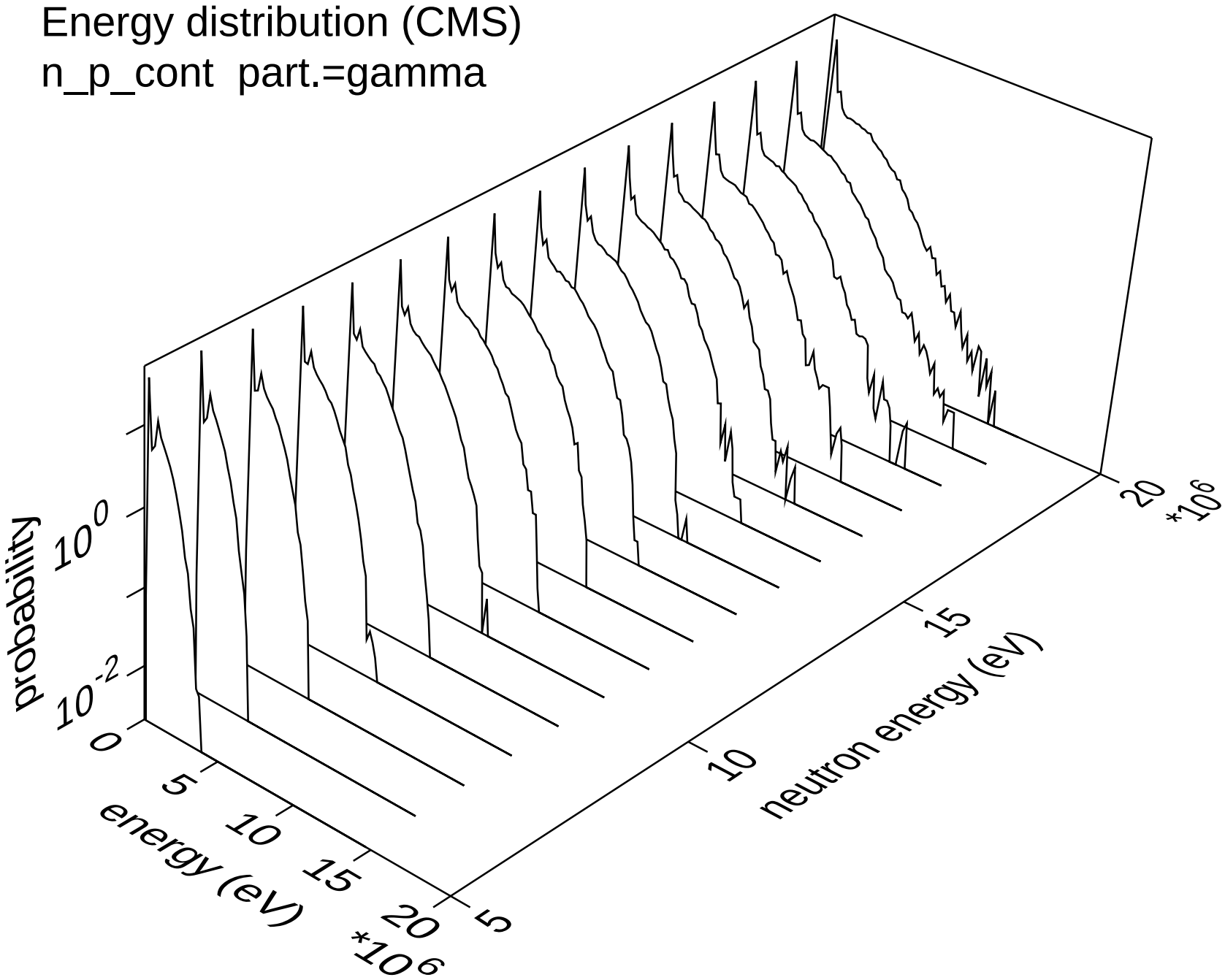

Energy distribution (CMS)
n_np part.=proton
probability
10^0
10^{-2}
0
energy (eV)
5
10
15
*10^6
10
12
14
16
18
20
*10^6
neutron energy (eV)

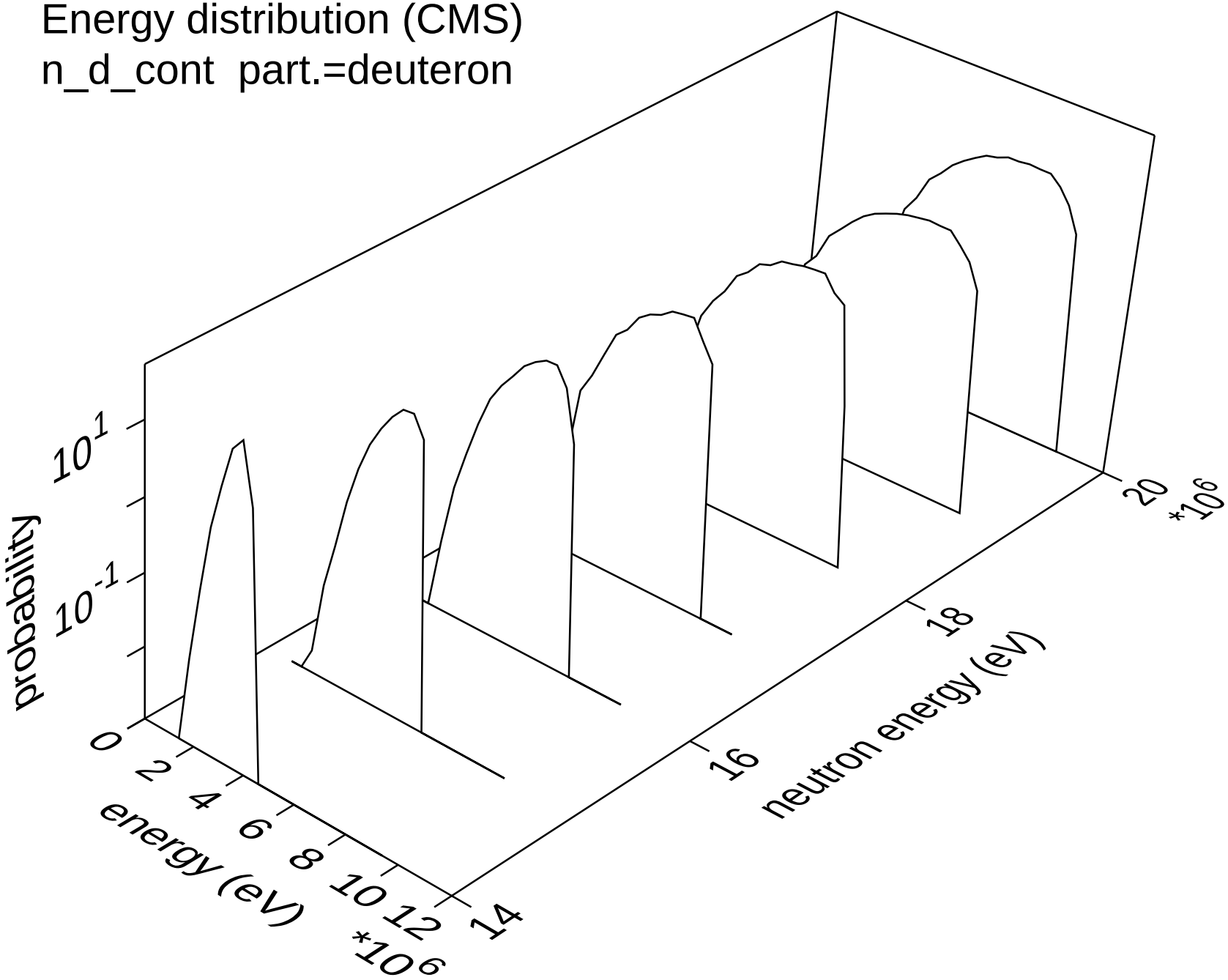

Energy distribution (CMS)
n_np part.=gamma
probability
10^{2}
10^{0}
10^{-2}
0
5
10
15
energy (eV)
*10^6
10
12
14
16
18
20
neutron energy (eV)
*10^6

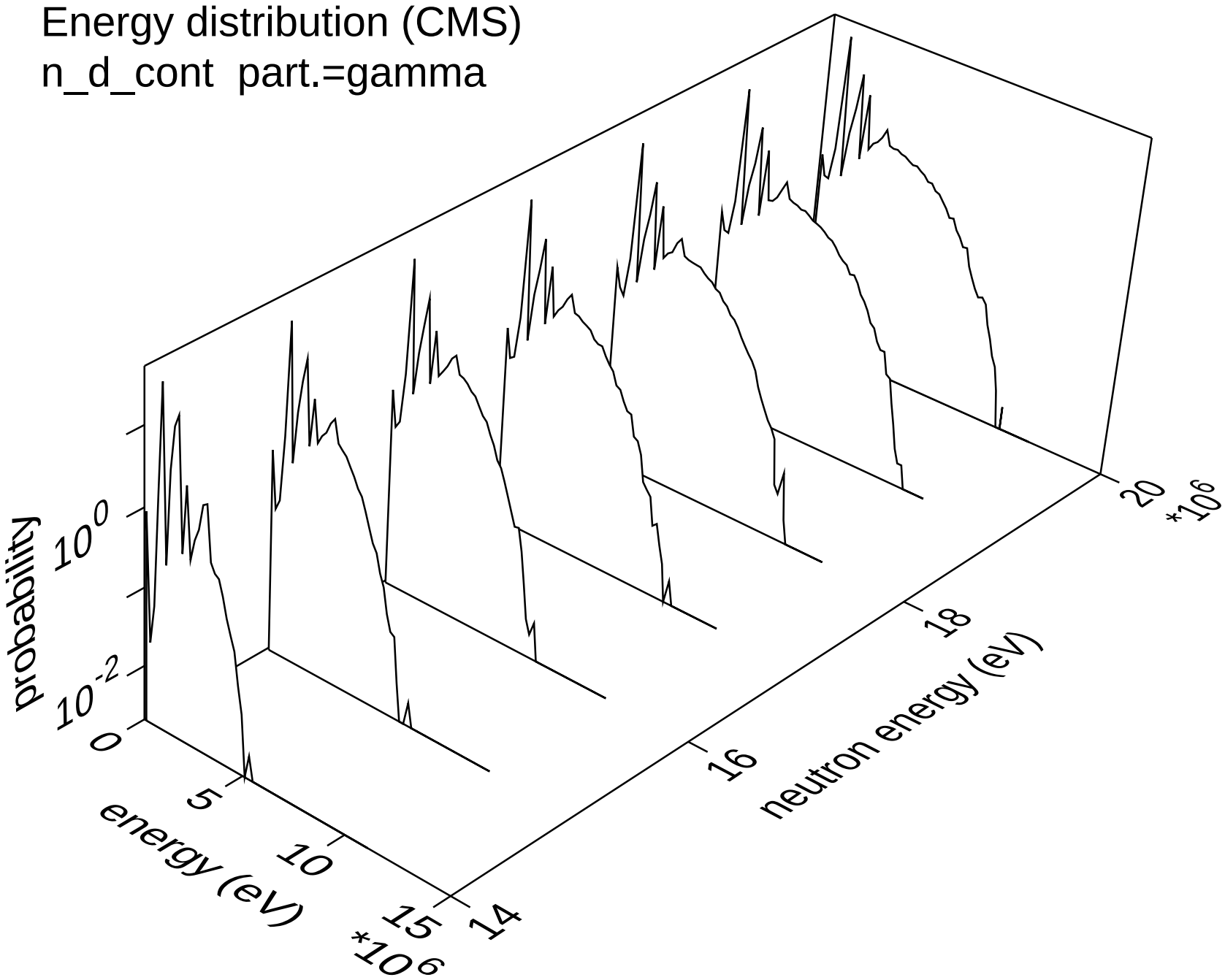

Energy distribution (CMS)
n_n_cont part.=neutron
probability
10^{0}
10^{-2}
0
5
10
15
20
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

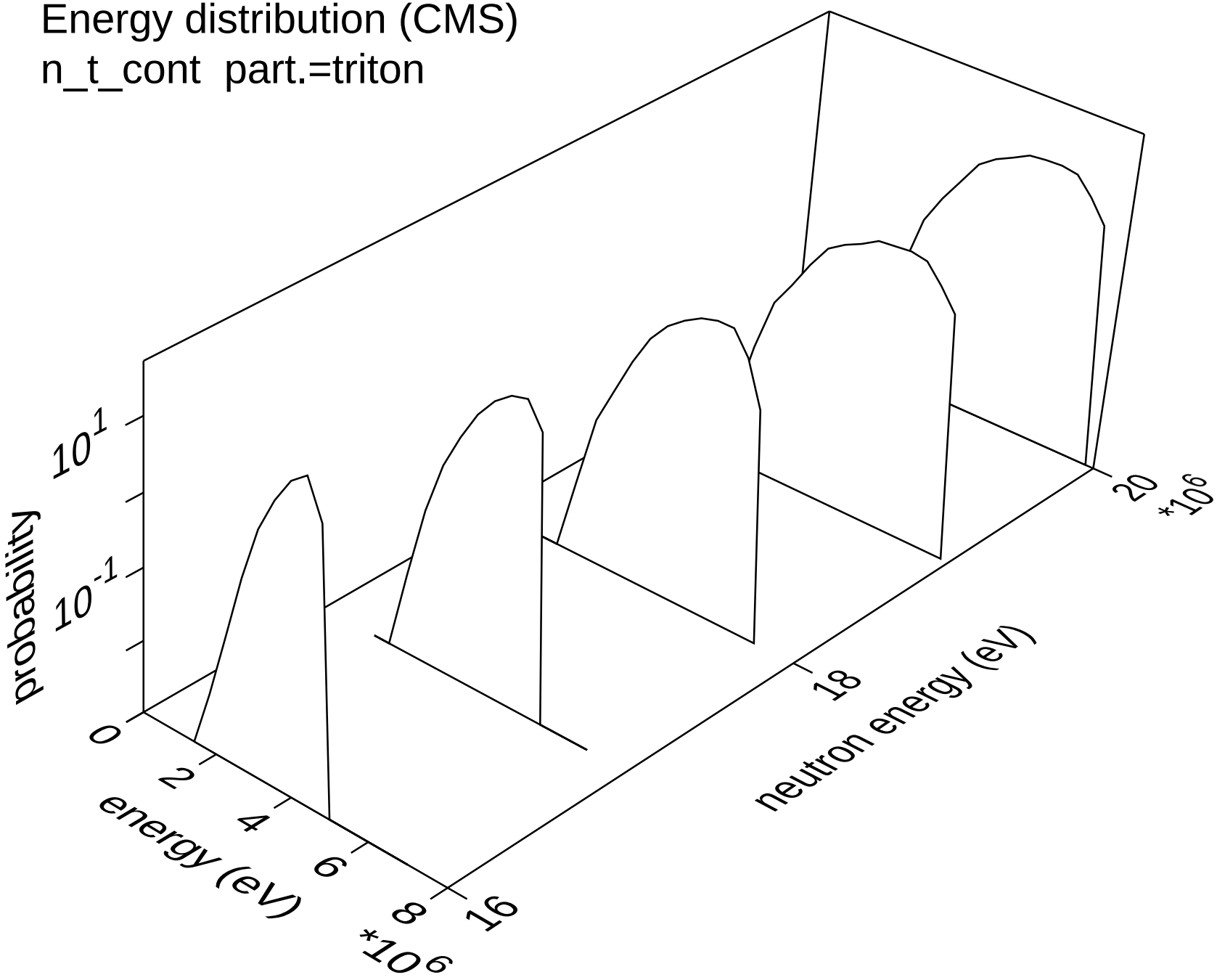

Energy distribution (CMS)
n_n_cont part.=gamma
probability
10^0
10^{-2}
0
5
10
15
20
*10^6
energy (eV)
0
5
10
15
20
*10^6
neutron energy (eV)

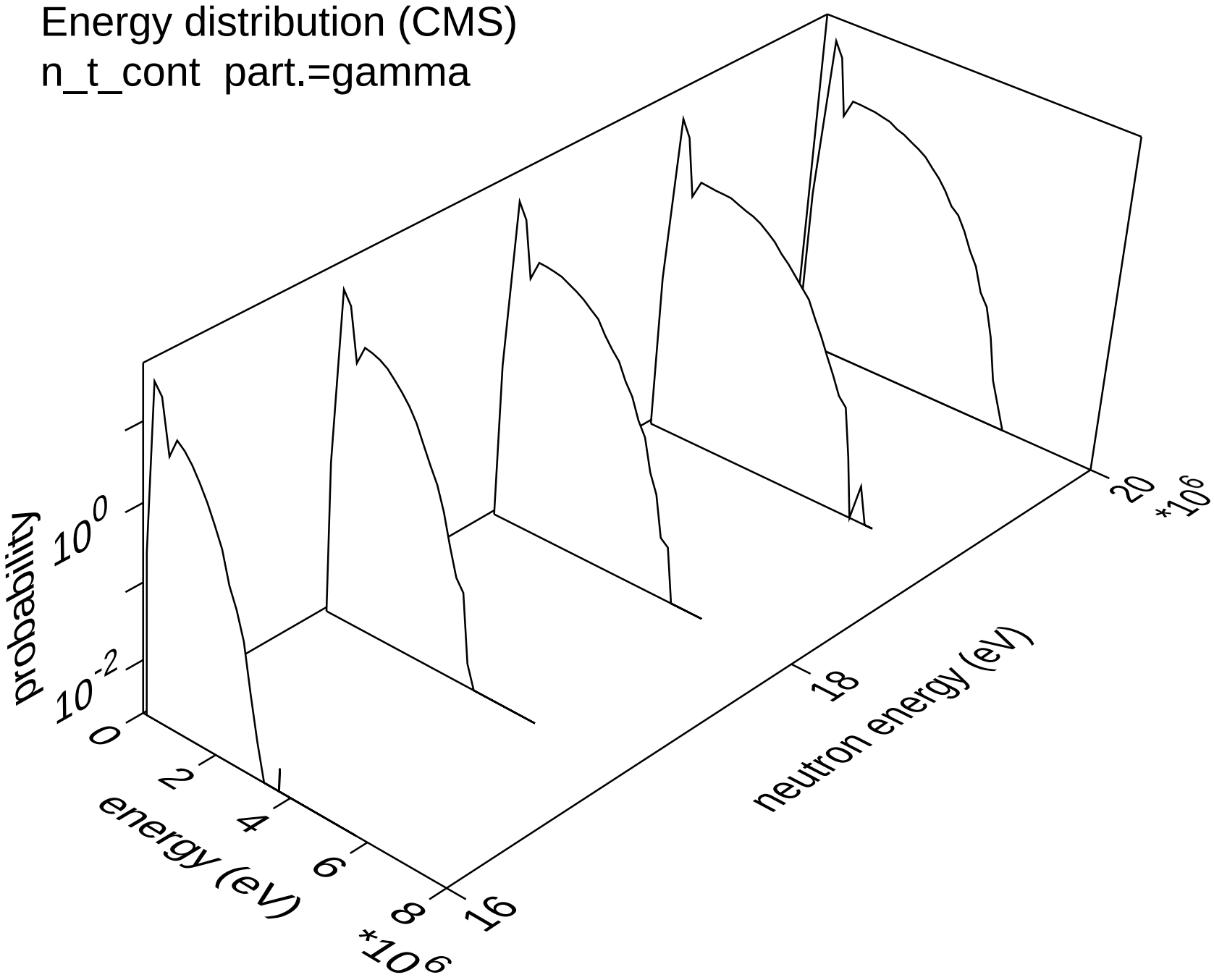

Energy distribution (CMS)
n_p_cont part.=proton
probability
10^{1}
10^{-1}
0
5
10
15
20
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

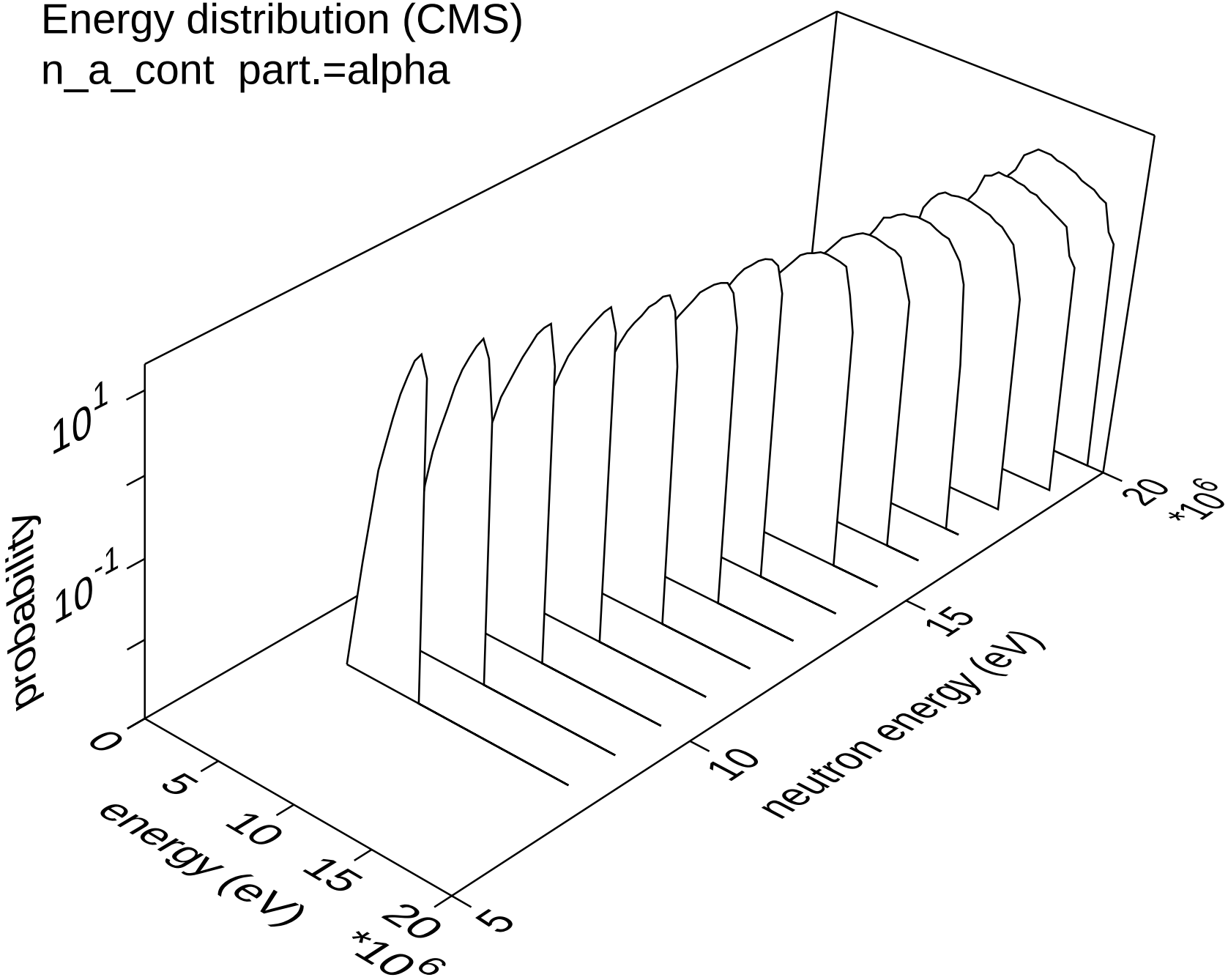

Energy distribution (CMS)
n_p_cont part.=gamma
probability
10^0
10^-2
0
5
10
15
20
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

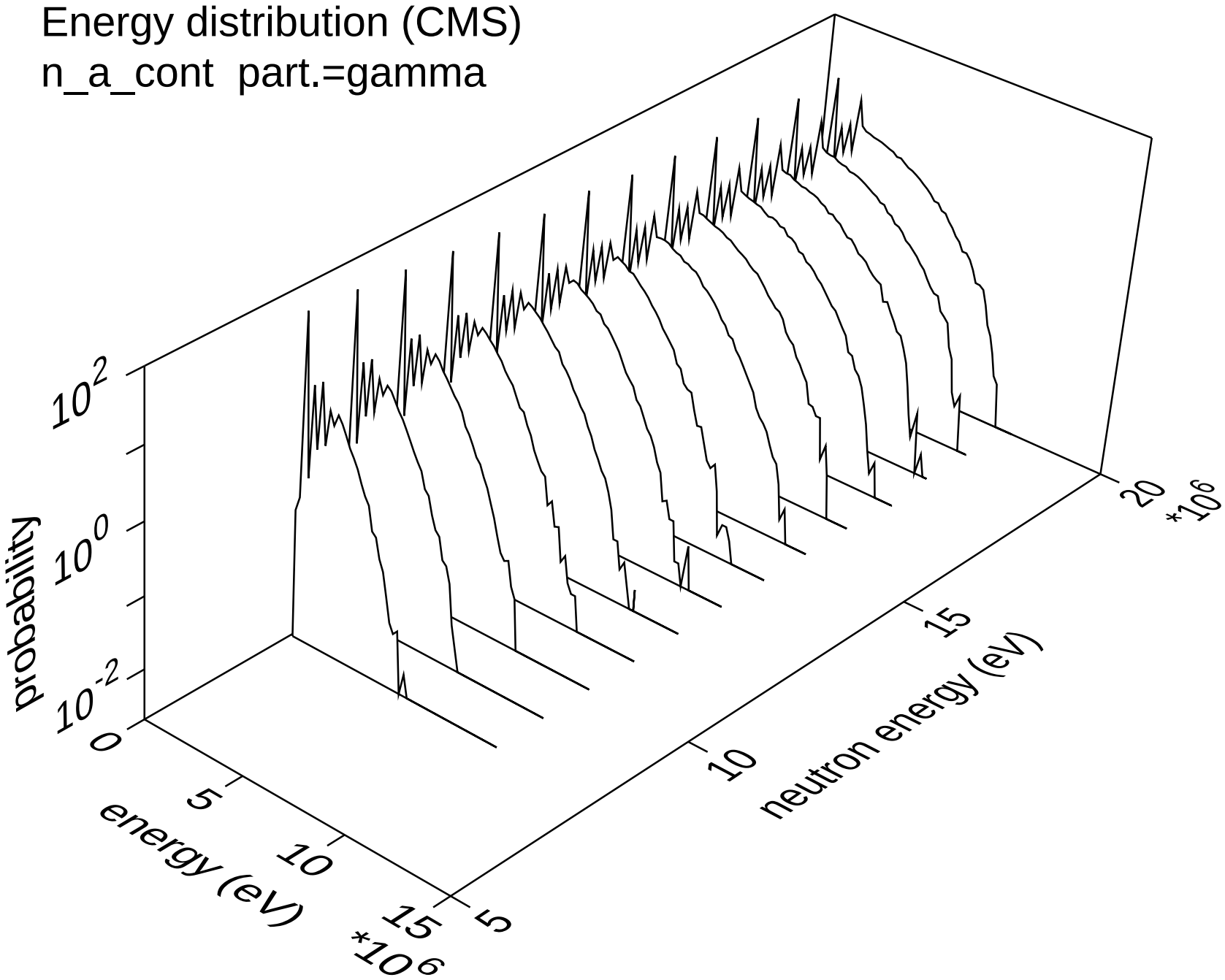

Energy distribution (CMS)
n_d_cont part.=deuteron
probability
10^{1}
10^{-1}
0
2
4
6
8
10
12
14
energy (eV)
*10 6
16
18
20
neutron energy (eV)
*10 6

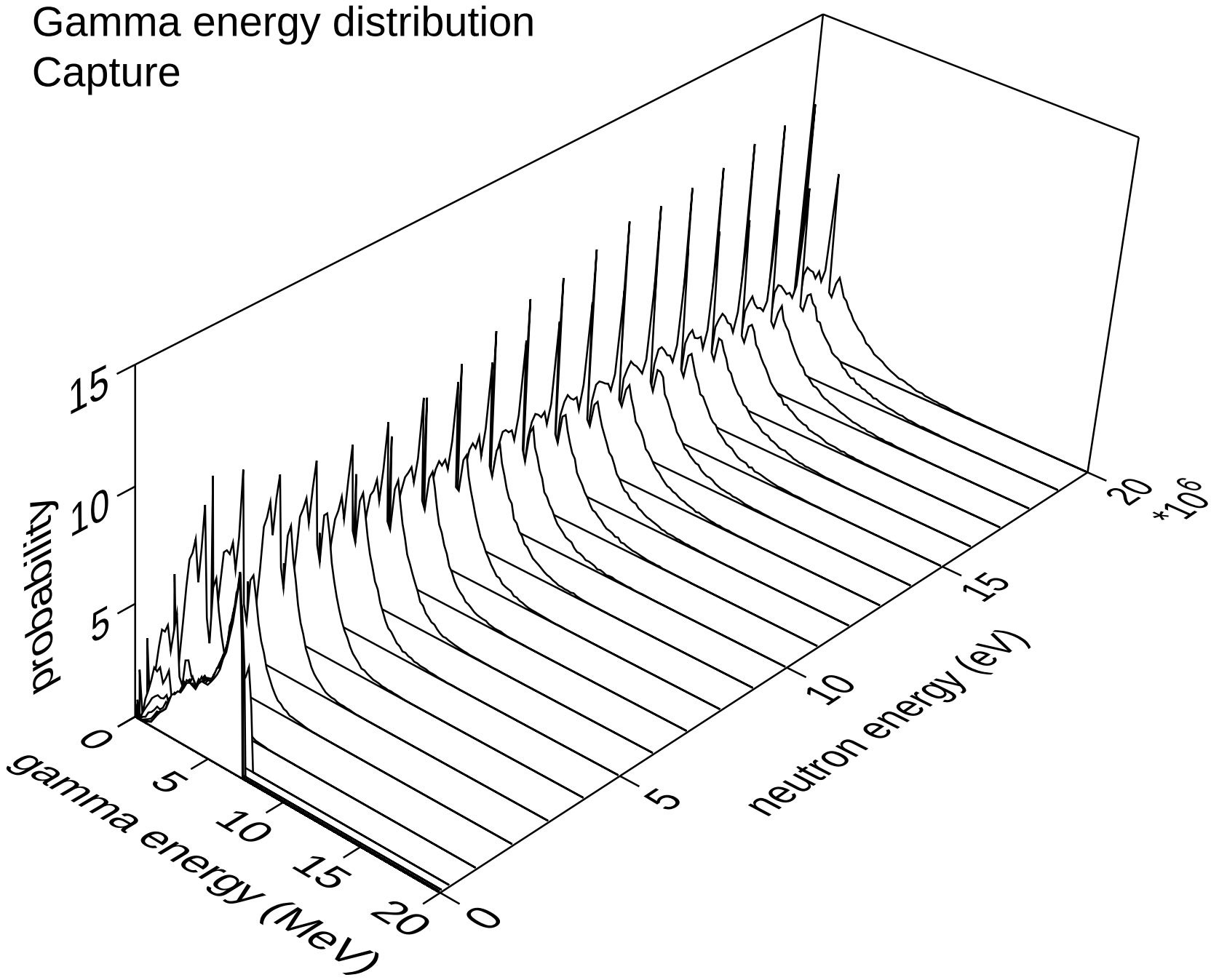

Energy distribution (CMS)
n_d_cont part.=gamma
probability
10^0
10^-2
0
5
10
15
*10^6
energy (eV)
14
16
18
20
*10^6
neutron energy (eV)

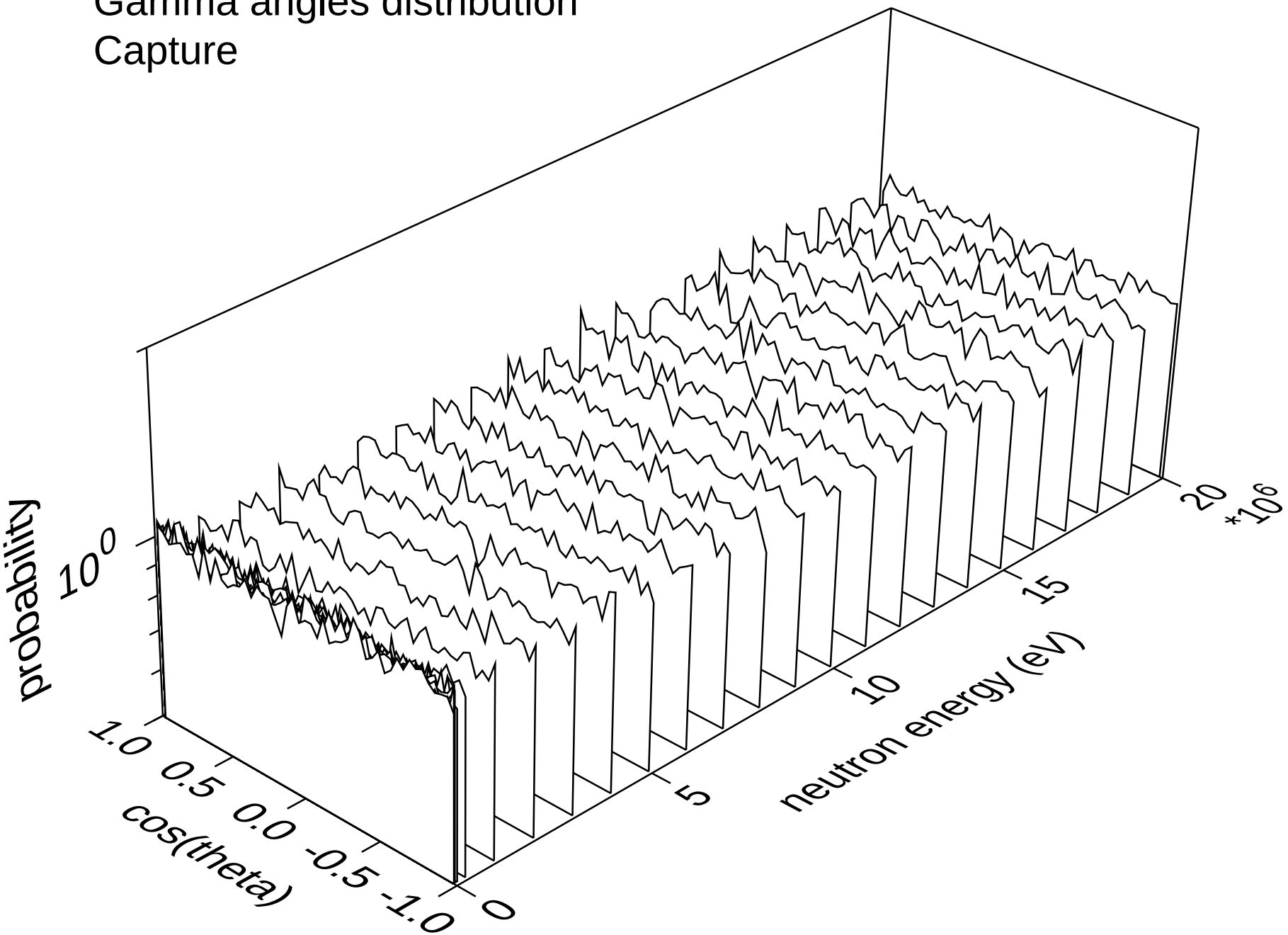

Energy distribution (CMS)
n_t_cont part.=triton
probability
10^{1}
10^{-1}
0
2
4
6
8
*10 6
energy (eV)
16
18
20
*10^6
neutron energy (eV)


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
*10^6
neutron energy (eV)

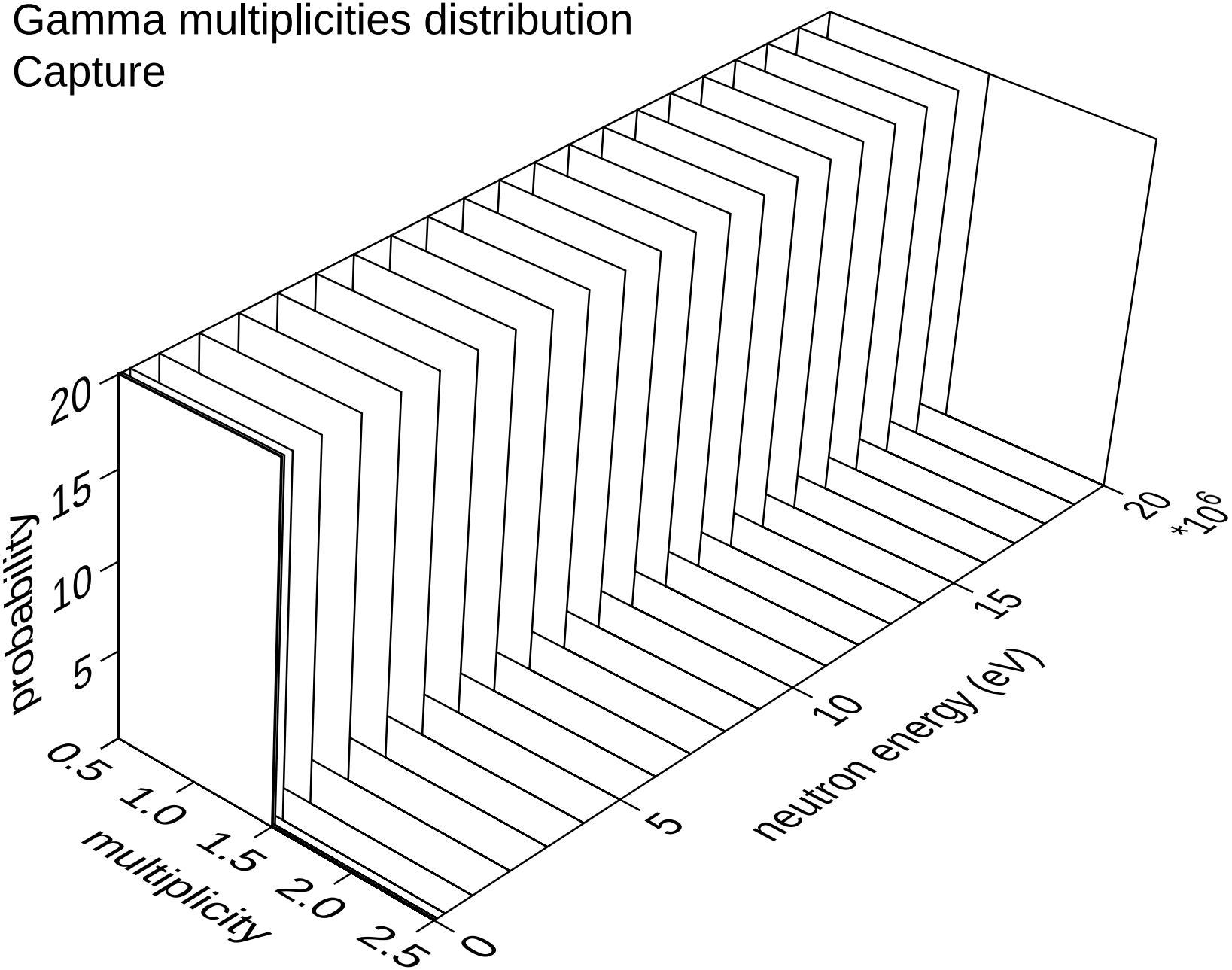

Energy distribution (CMS)
n_a_cont part.=alpha
probability
10^1
10^-1
0
5
10
15
20
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

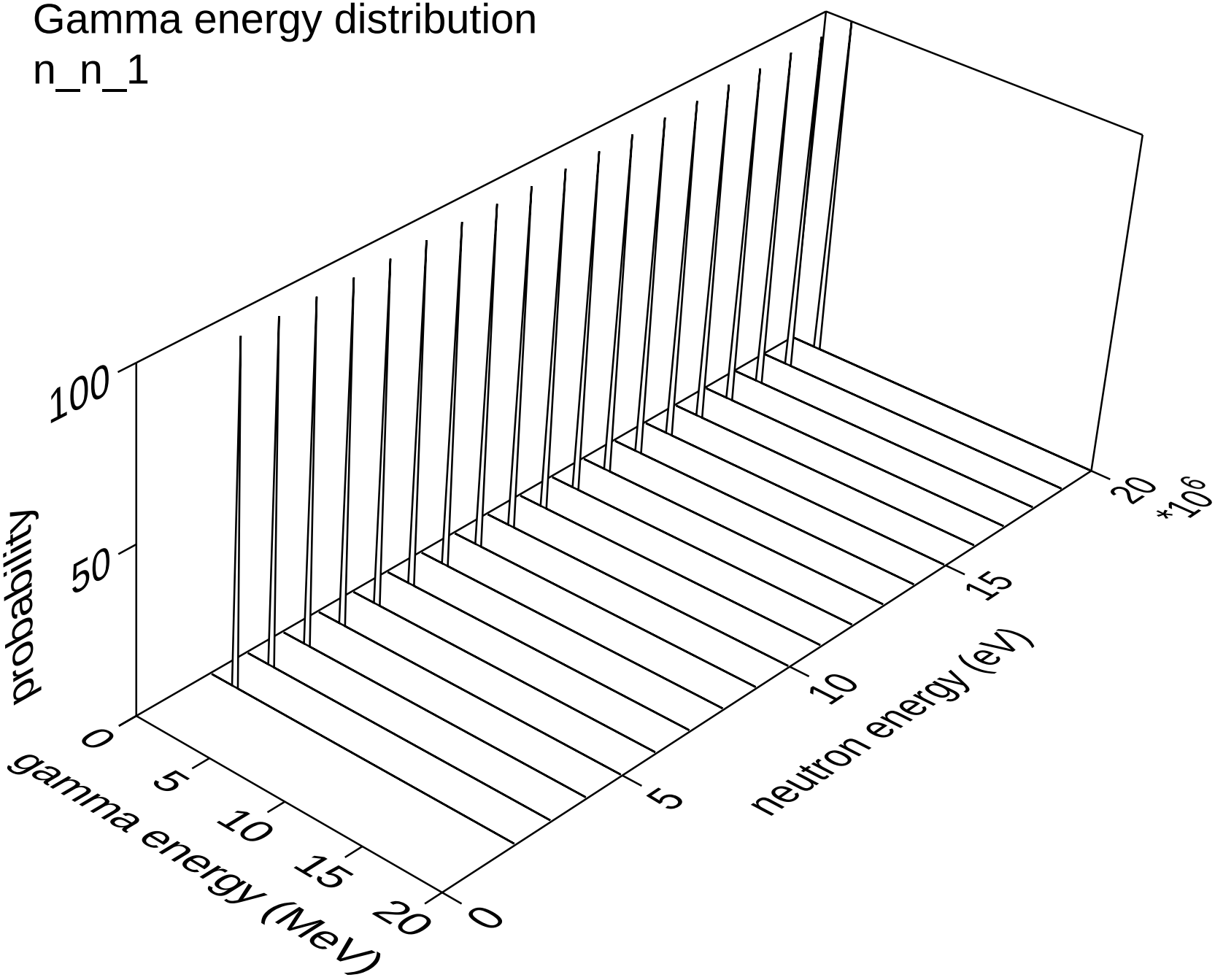

Energy distribution (CMS)
n_a_cont part.=gamma
probability
10^{2}
10^{0}
10^{-2}
0
5
10
15
energy (eV)
*10^6
5
10
15
20
neutron energy (eV)
*10^6

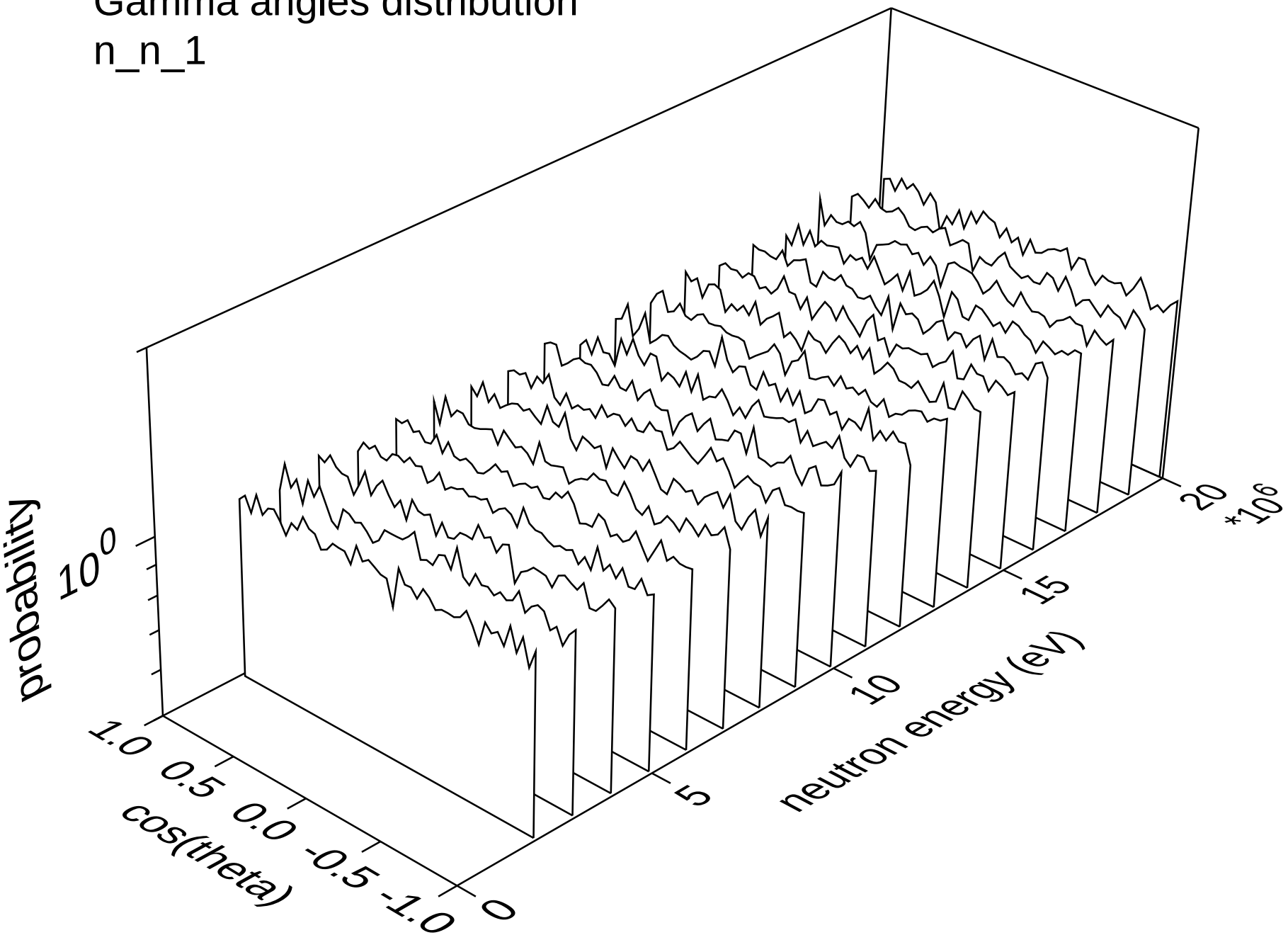

Gamma energy distribution
Capture
probability
15
10
5
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


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

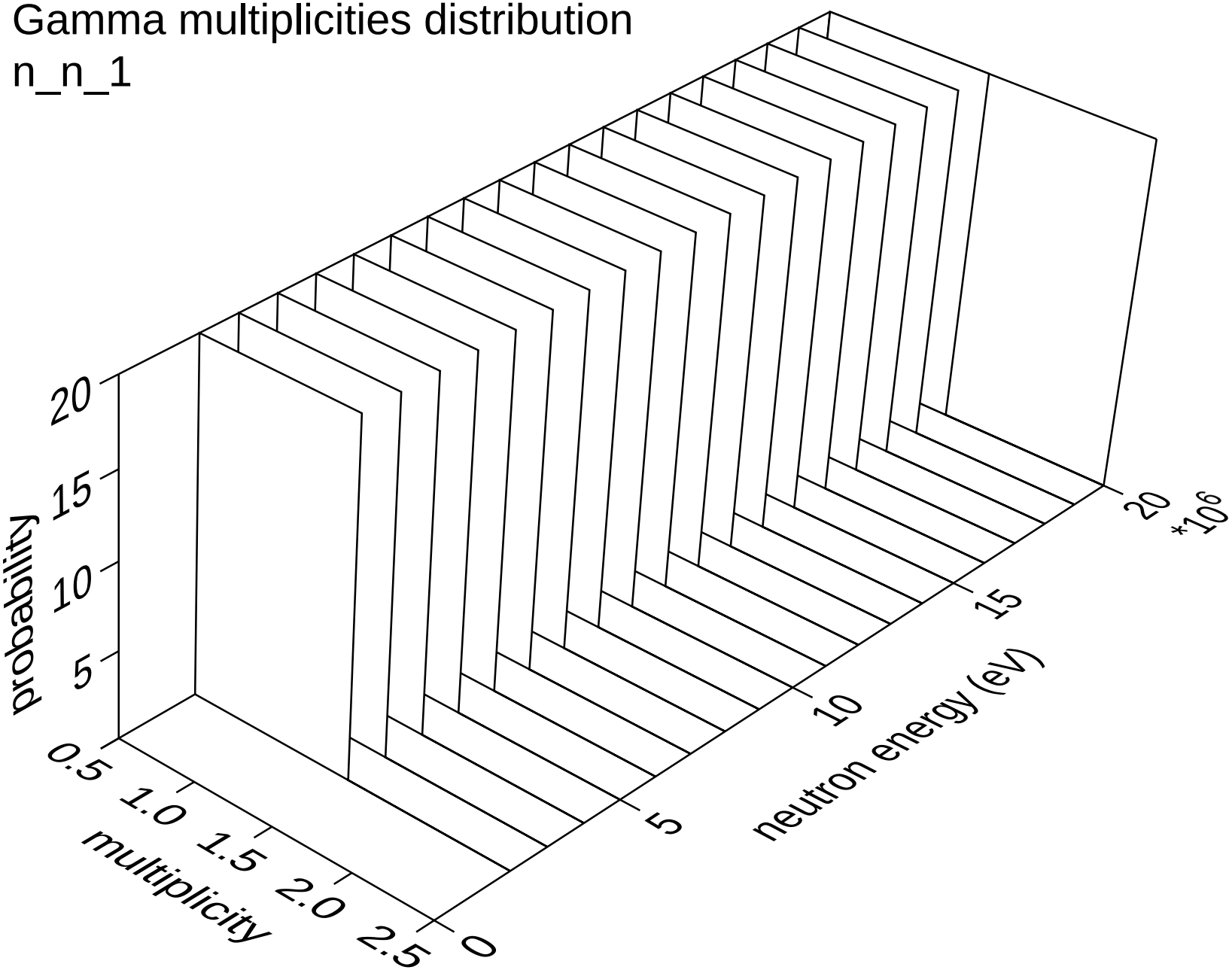
Gamma multiplicities distribution
Capture

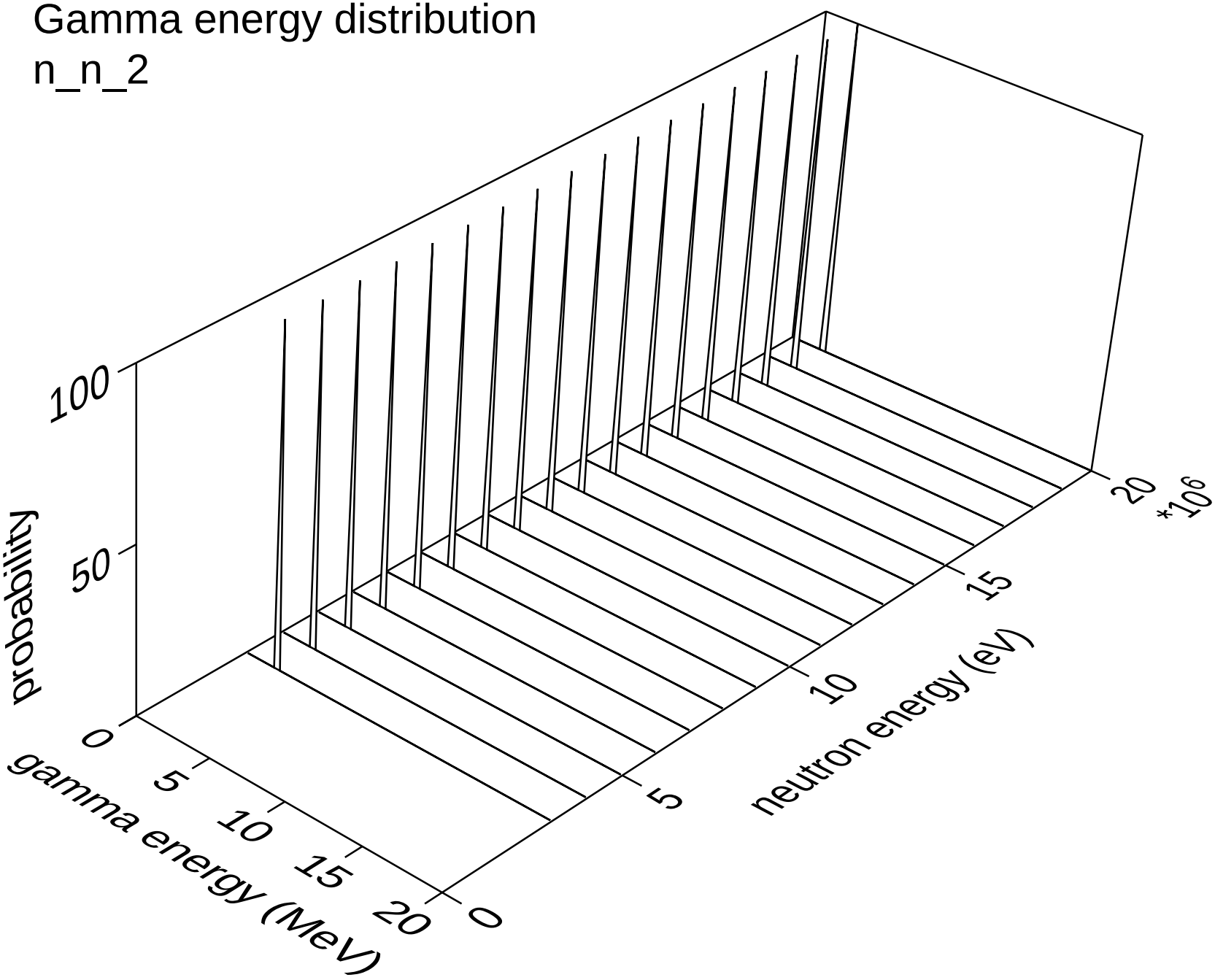


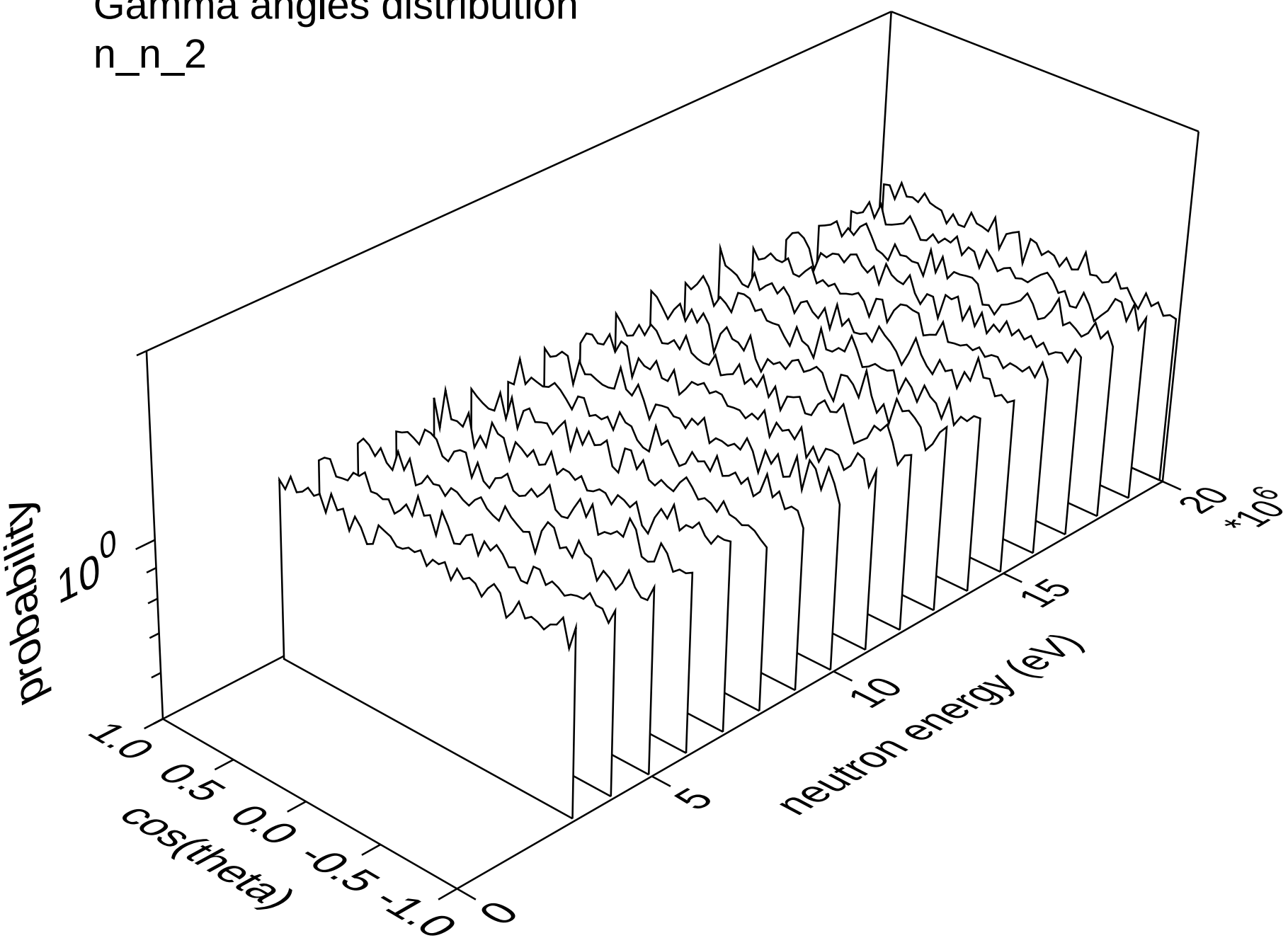

Gamma energy distribution
n_n_1
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6

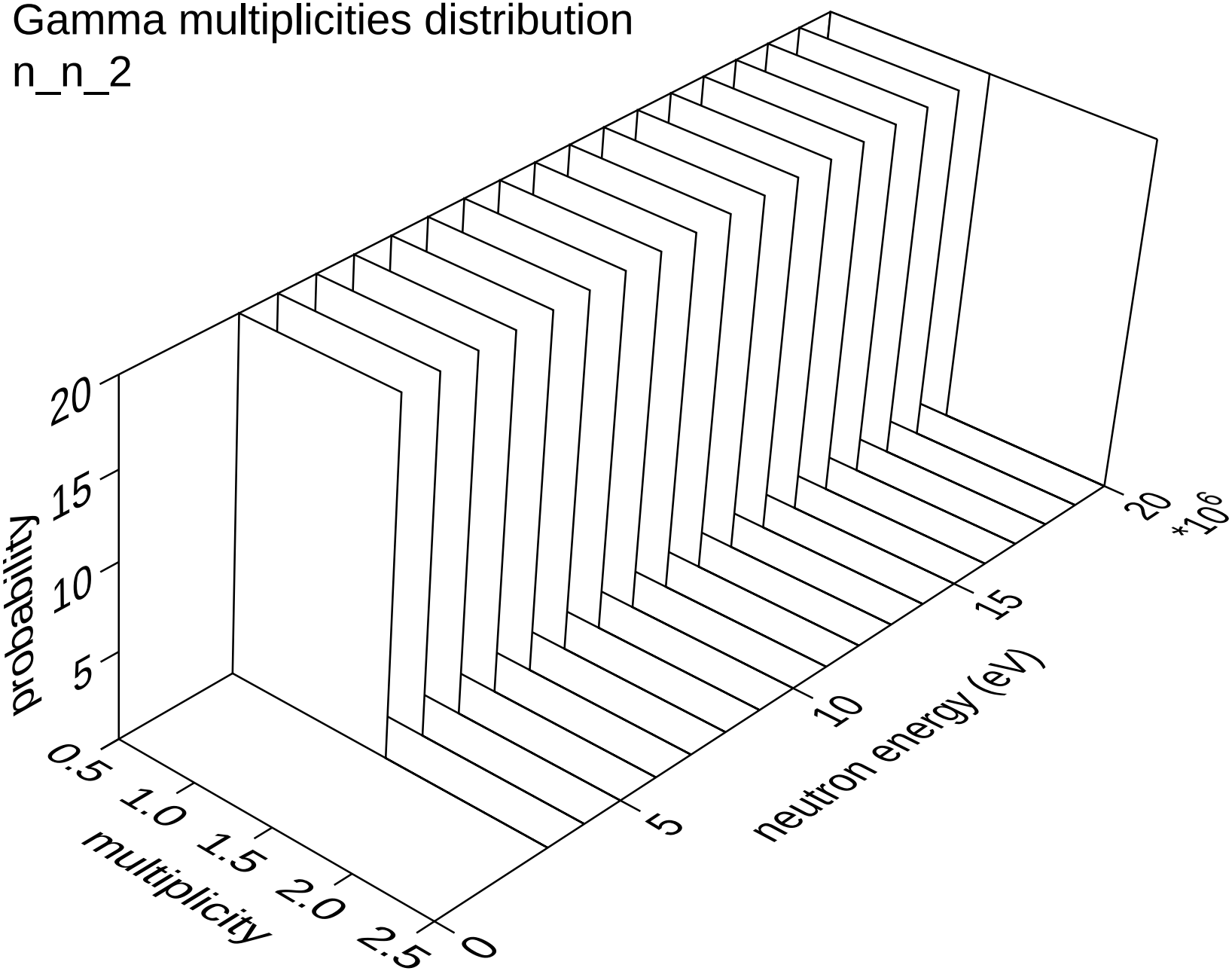

Gamma angles distribution
n_n_1
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
neutron energy (eV)
*10^6

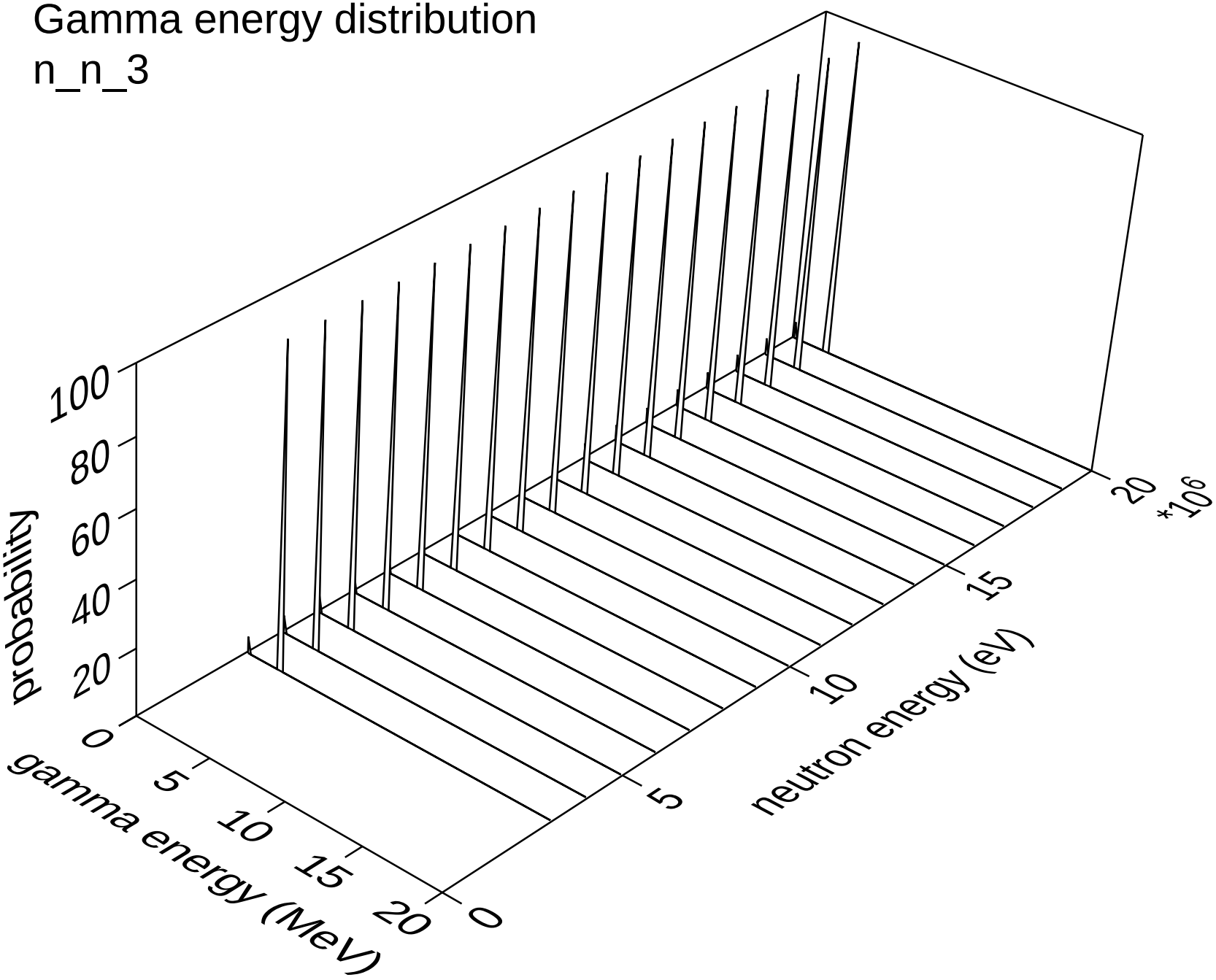
Gamma multiplicities distribution
n_n_1

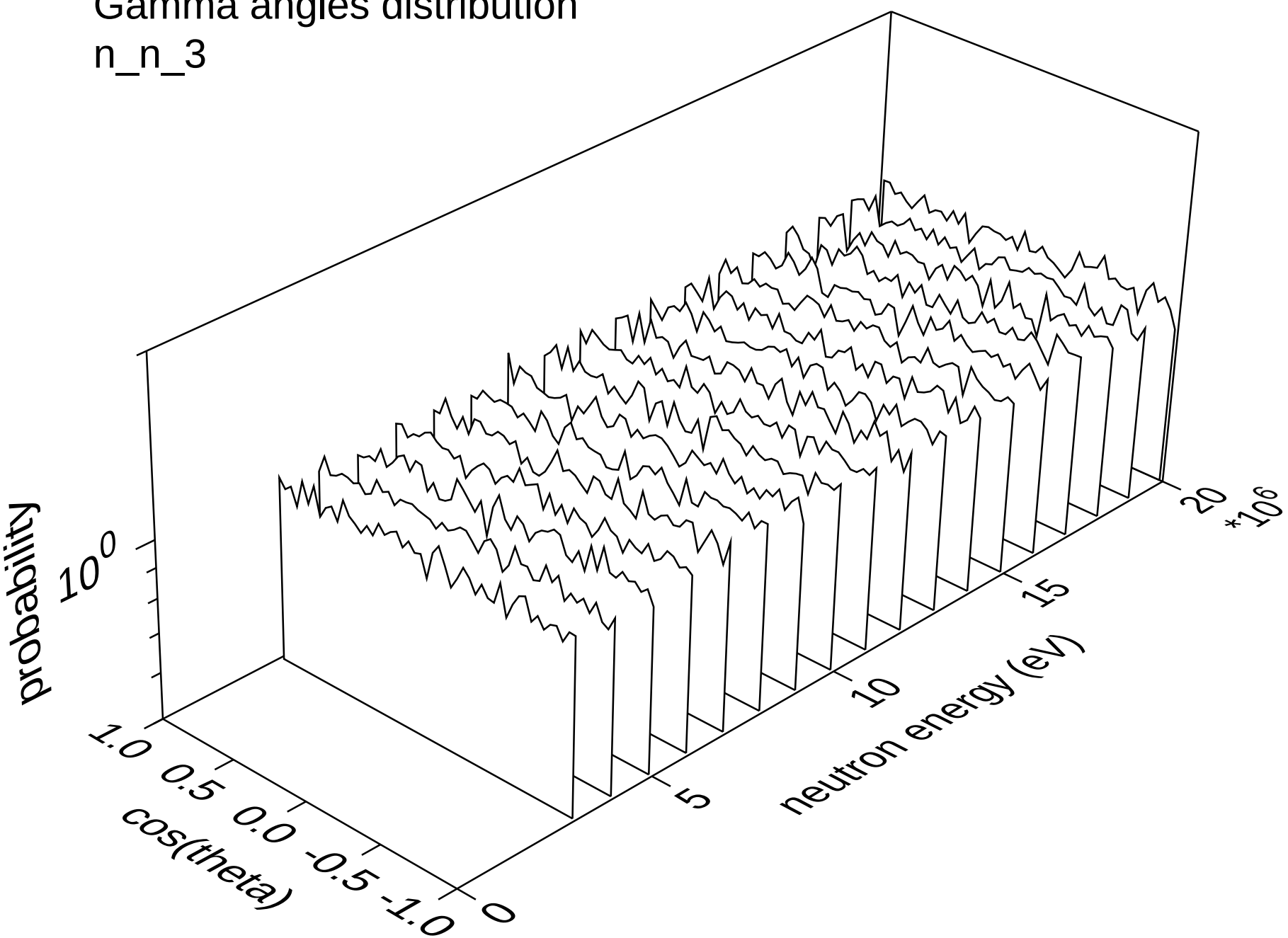



Gamma energy distribution
n_n_2
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6

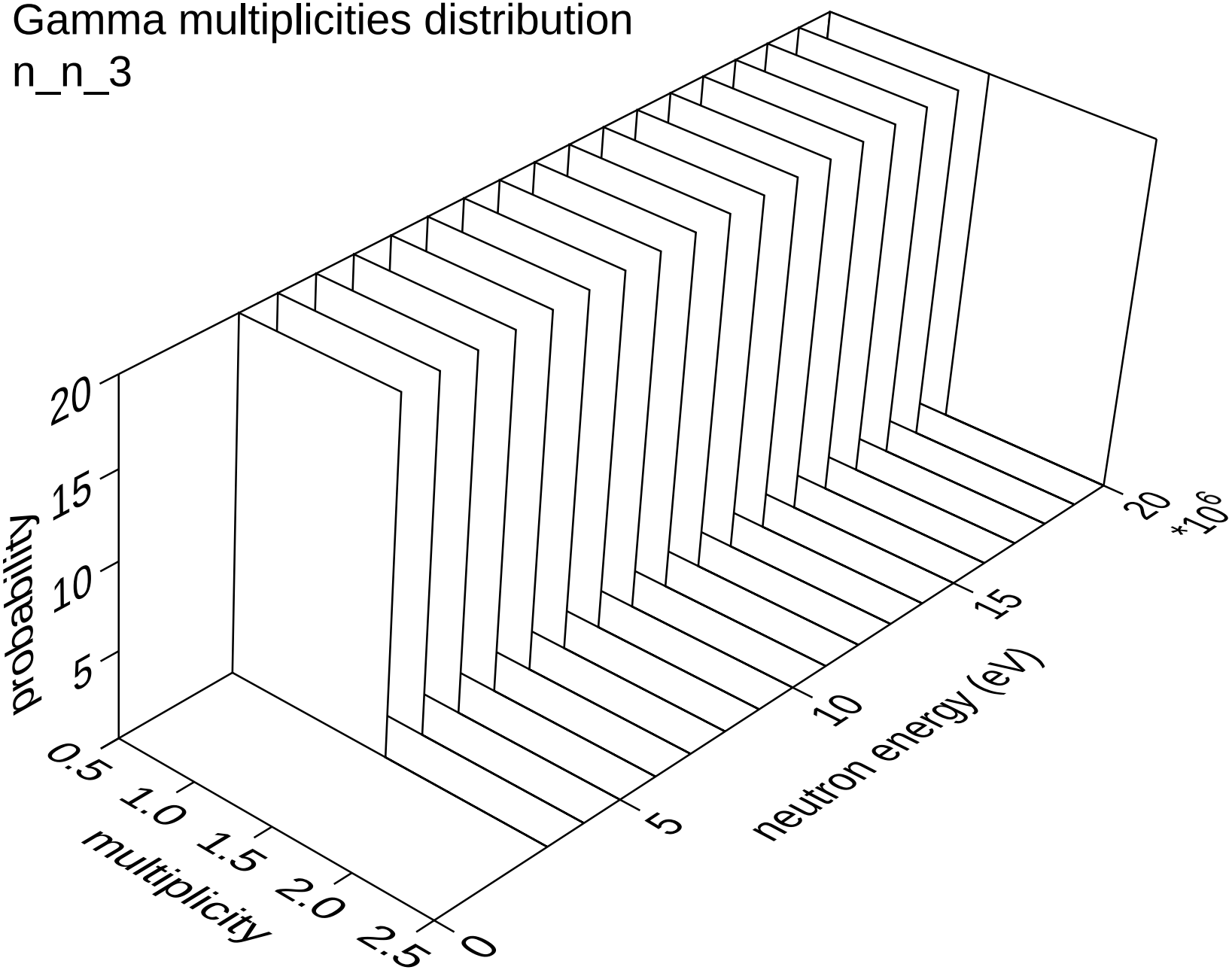

Gamma angles distribution
n_n_2
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

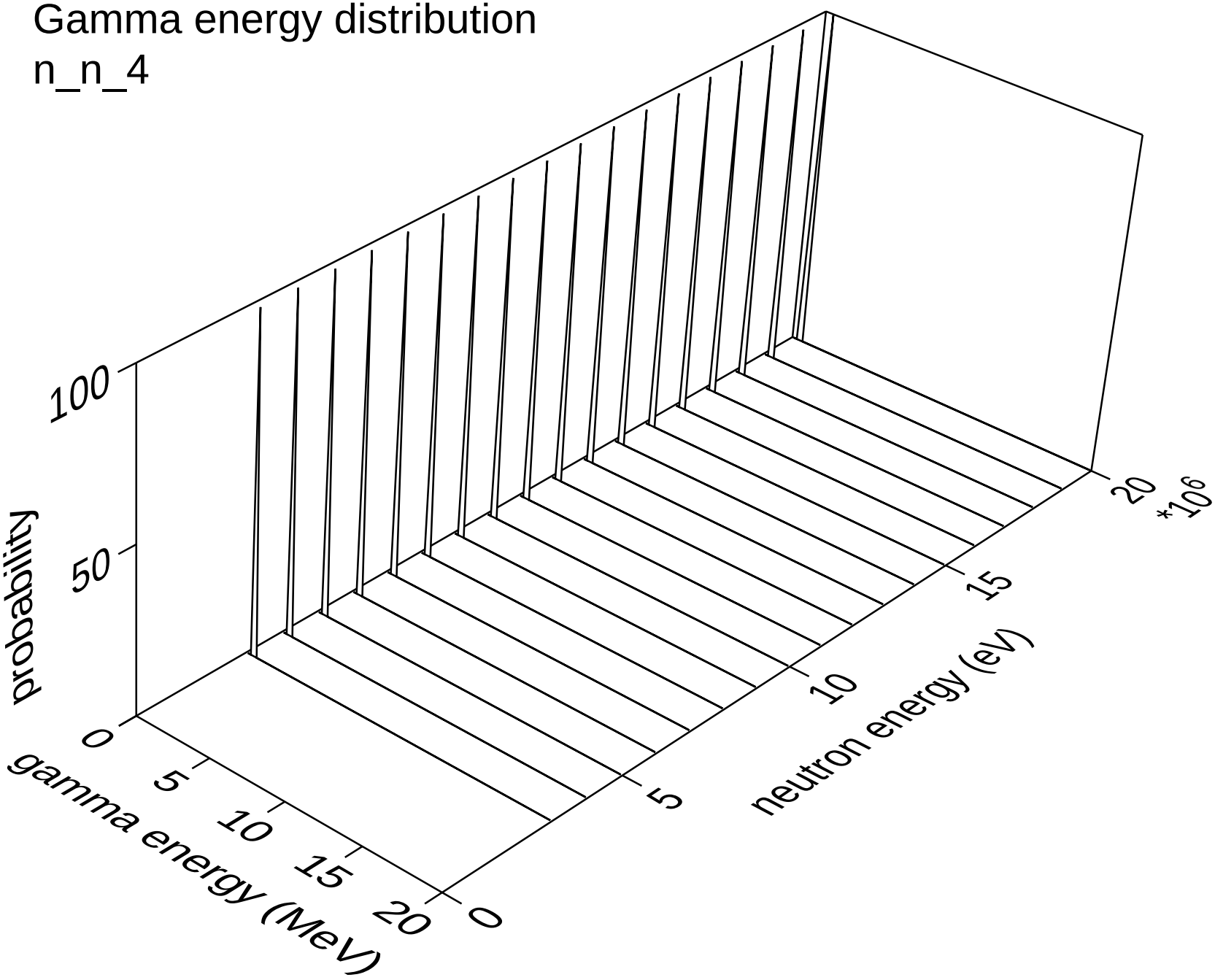

Gamma multiplicities distribution
n_n_2
probability
20
15
10
5
0.5
1.0
1.5
2.0
2.5
multiplicity
0
5
10
15
20
*10^6
neutron energy (eV)

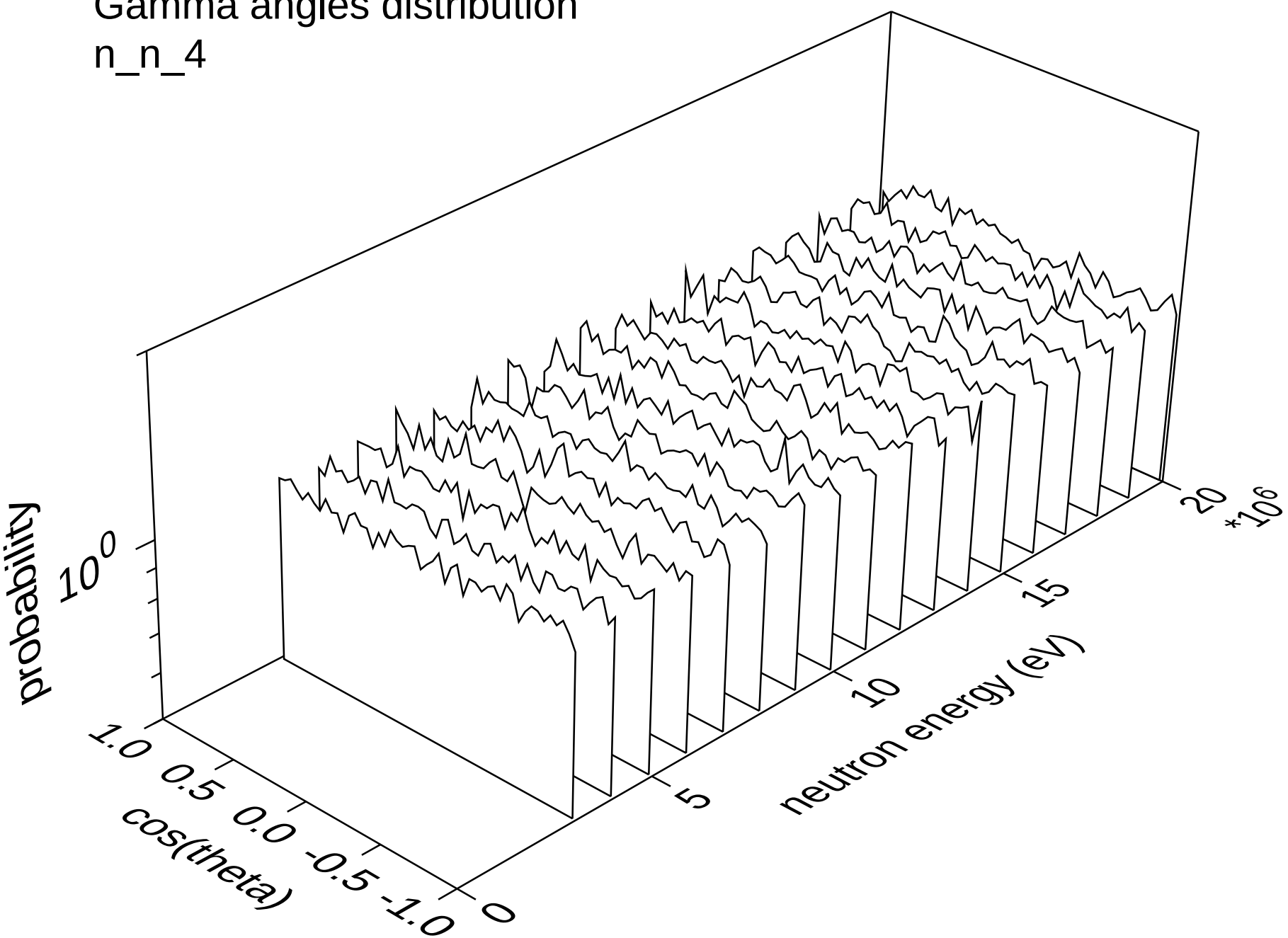

Gamma energy distribution
n_n_3
probability
100
80
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
5
10
15
20
*10^6

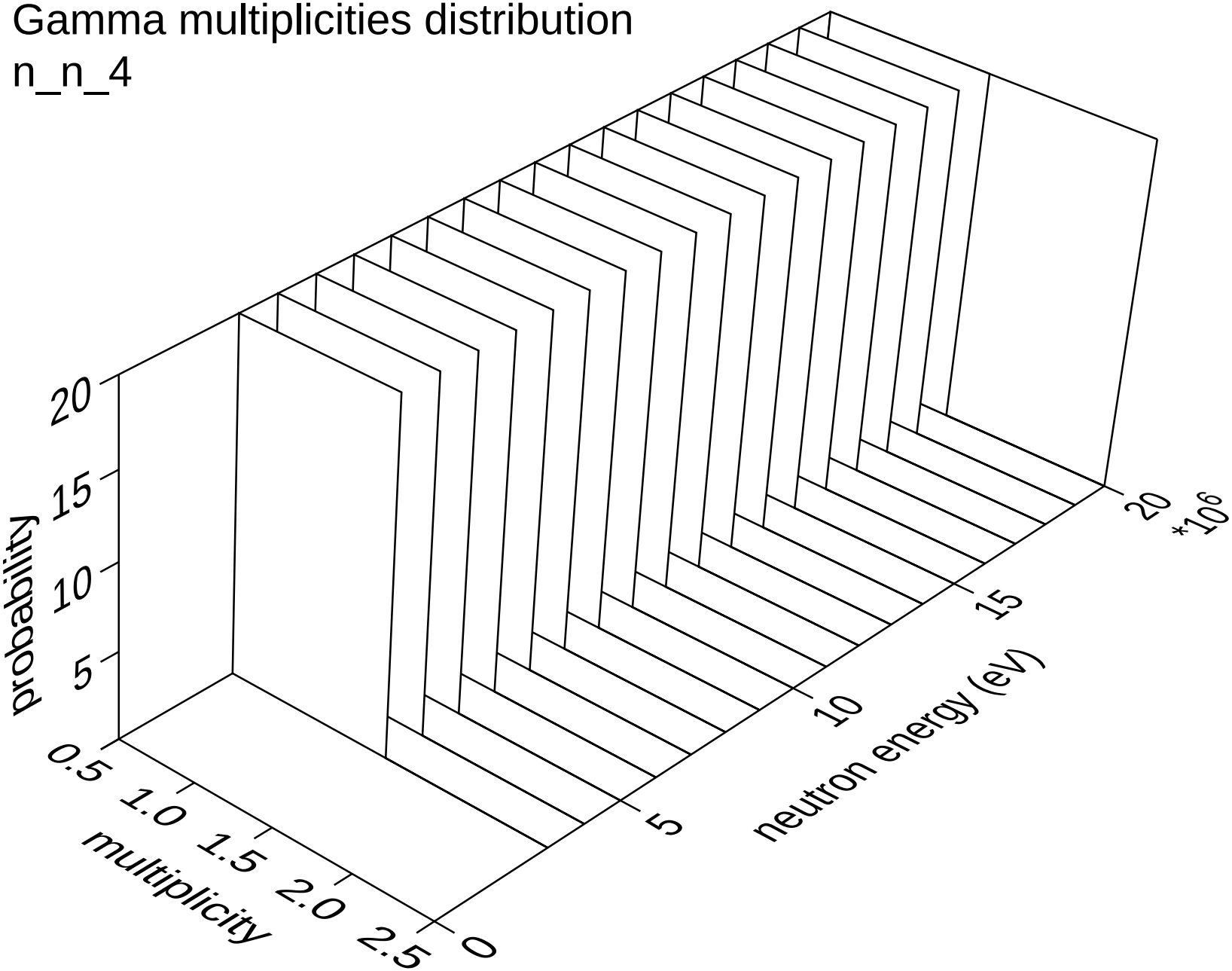

Gamma angles distribution
n_n_3
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

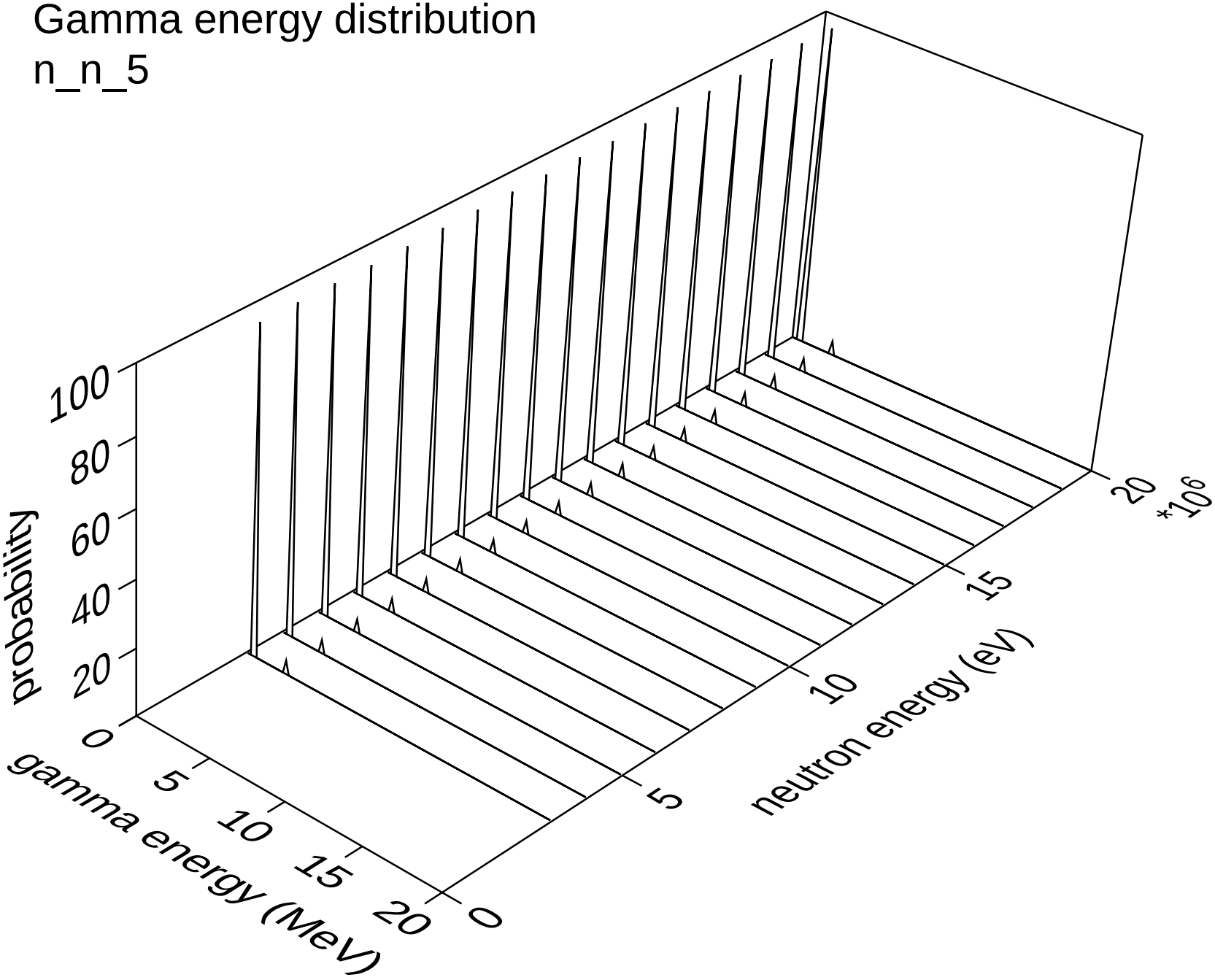
Gamma multiplicities distribution
n_n_3

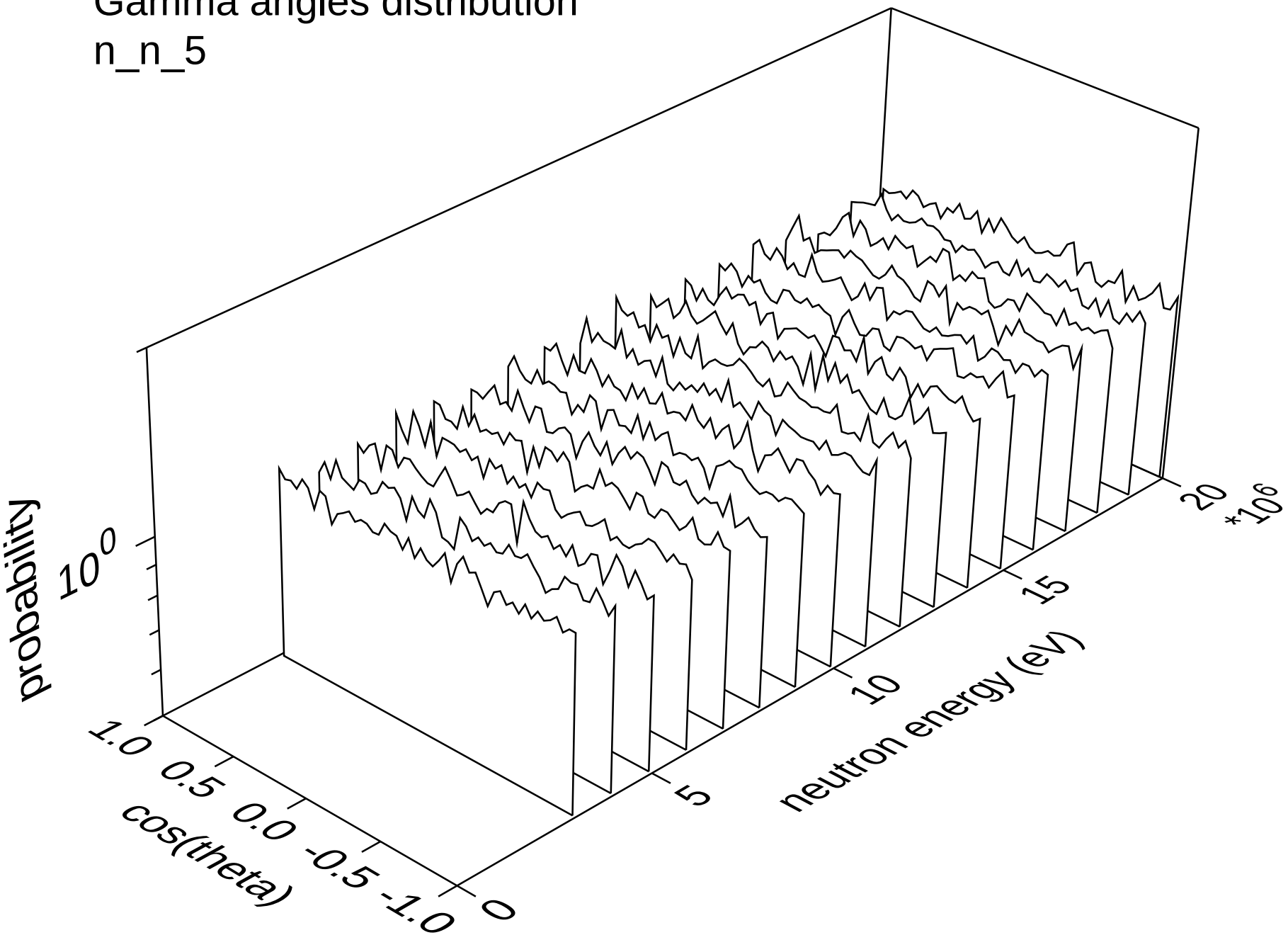



Gamma energy distribution
n_n_4
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6

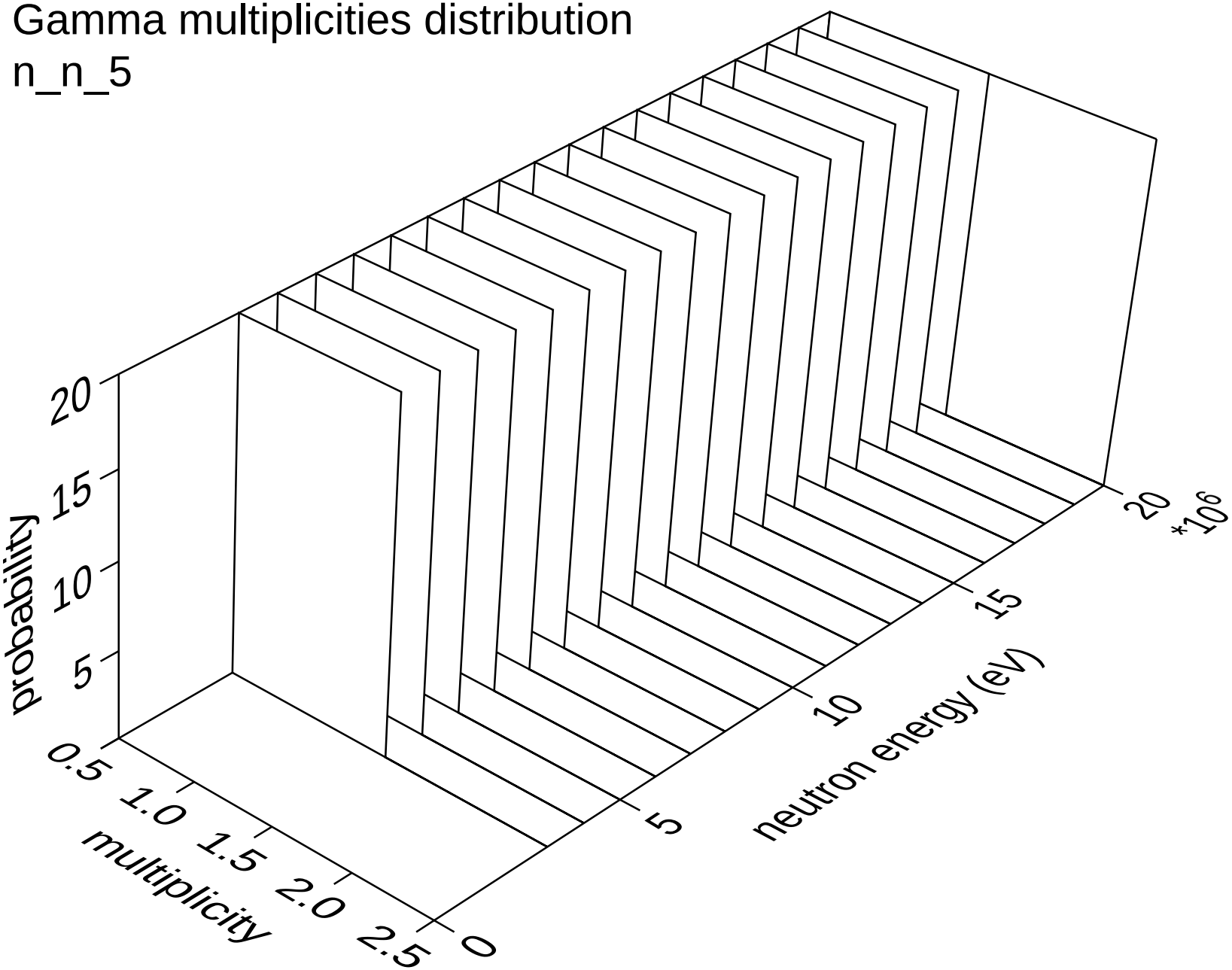

Gamma angles distribution
n_n_4
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

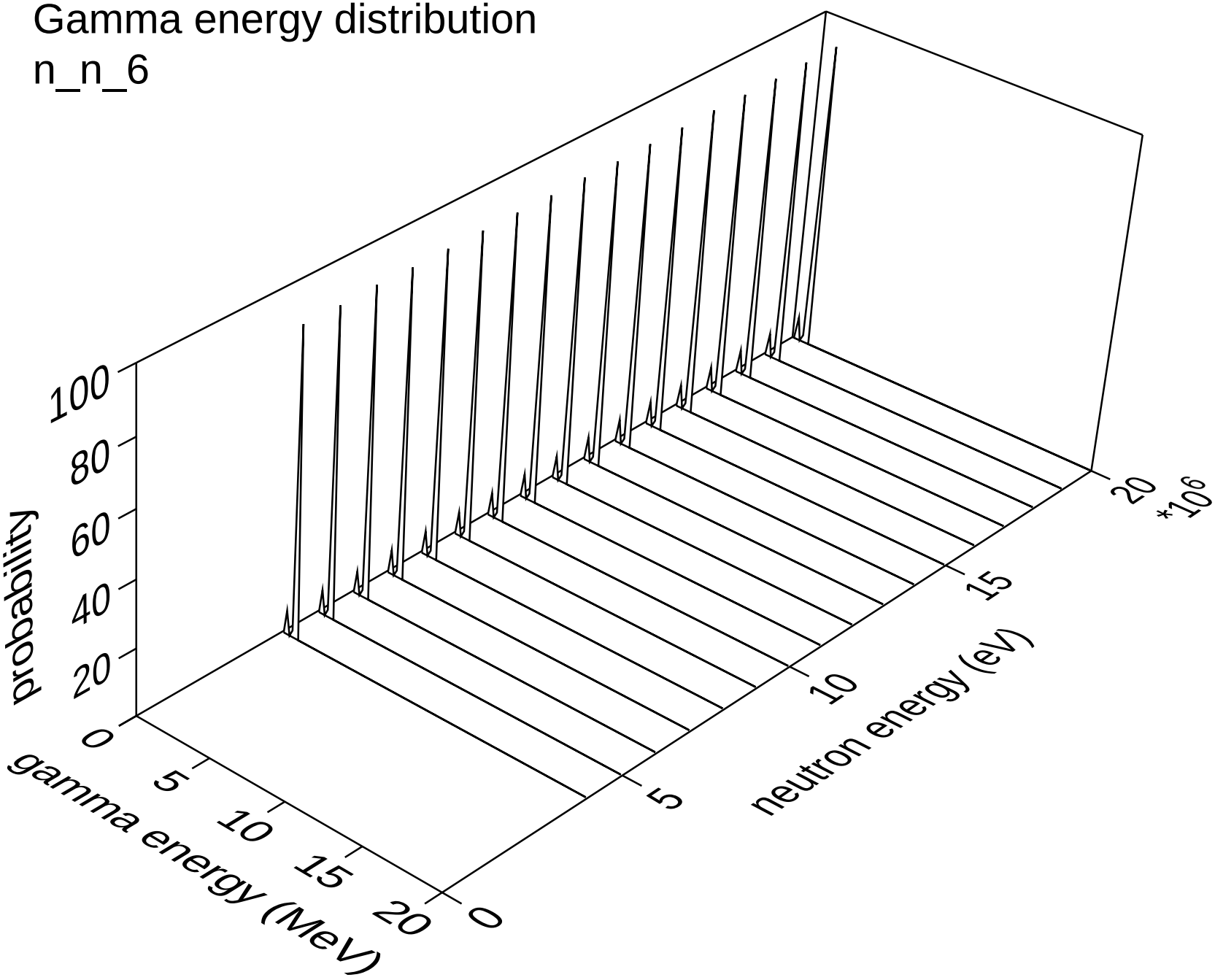

Gamma multiplicities distribution
n_n_4
probability
20
15
10
5
0.5
1.0
1.5
2.0
2.5
multiplicity
0
5
10
15
20
*10^6
neutron energy (eV)

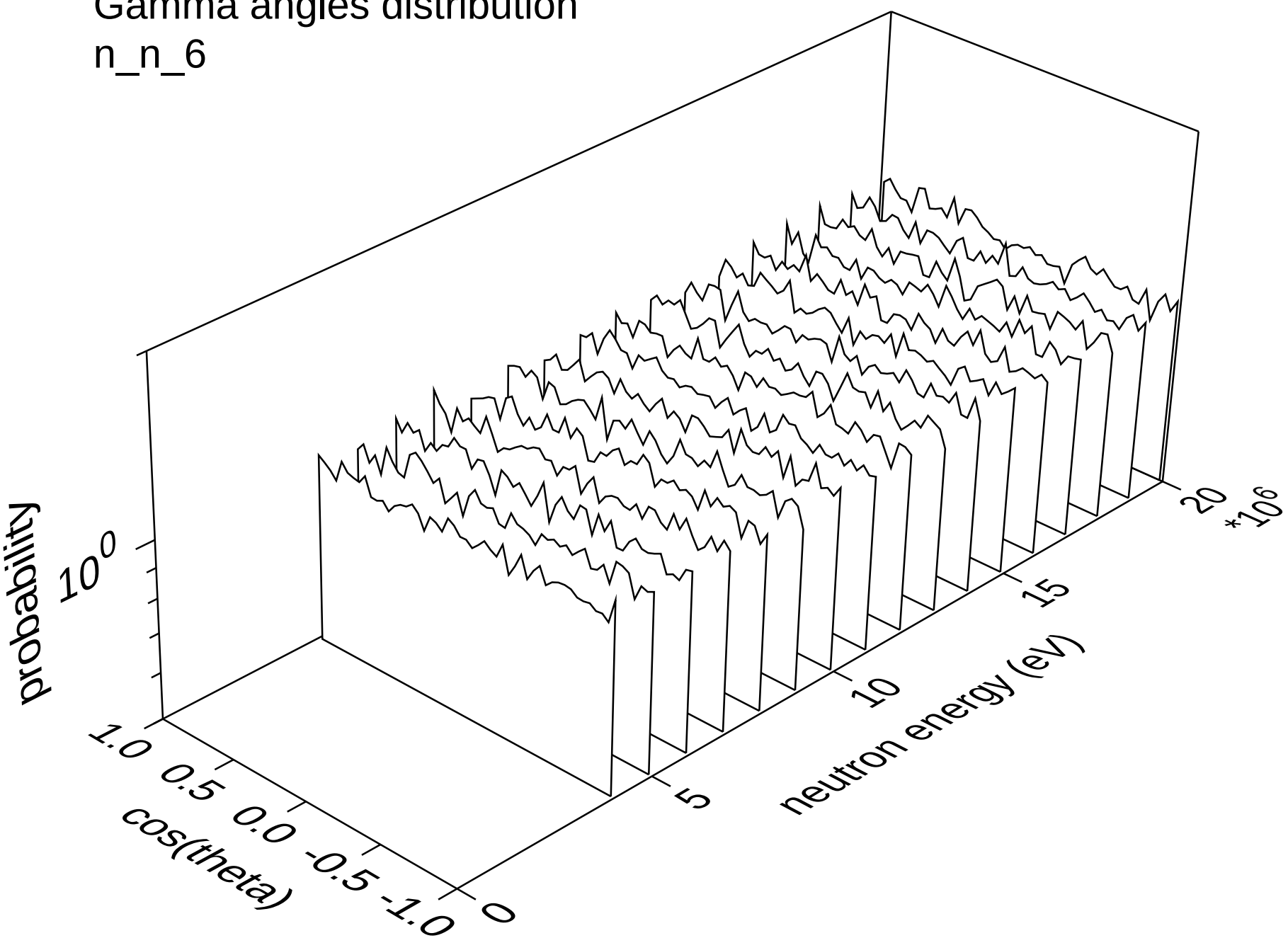

Gamma energy distribution
n_n_5
probability
100
80
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


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)

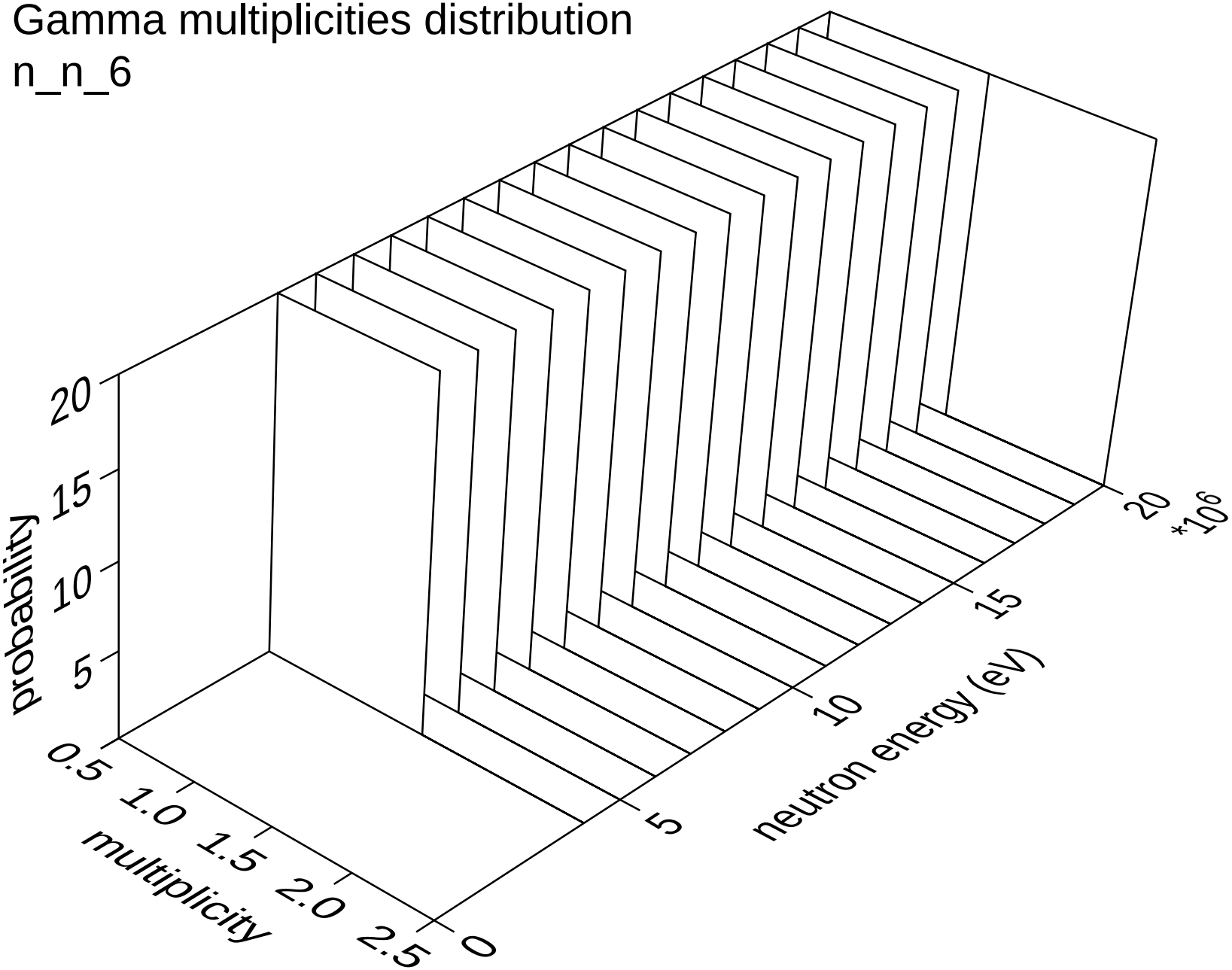
Gamma multiplicities distribution
n_n_5

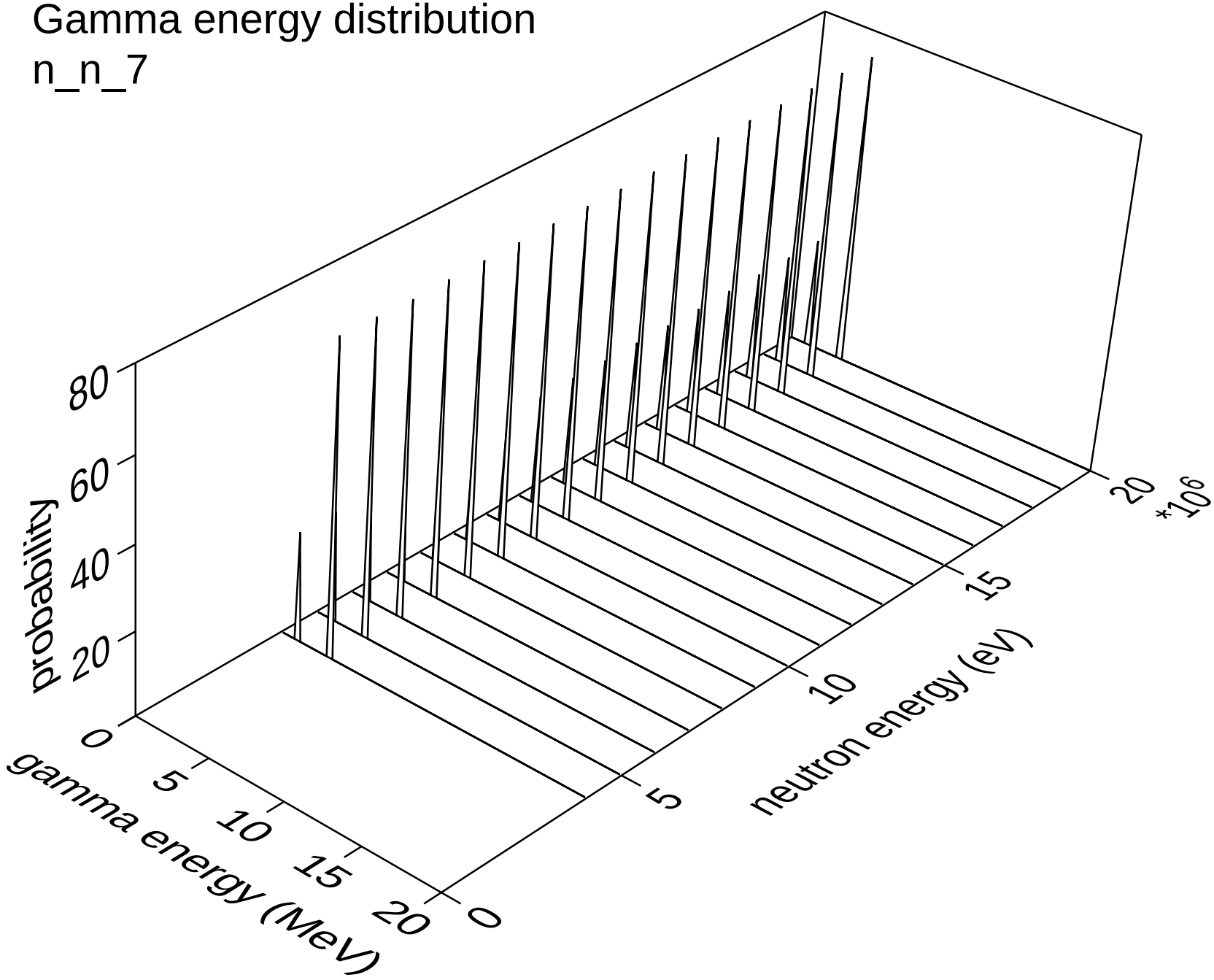


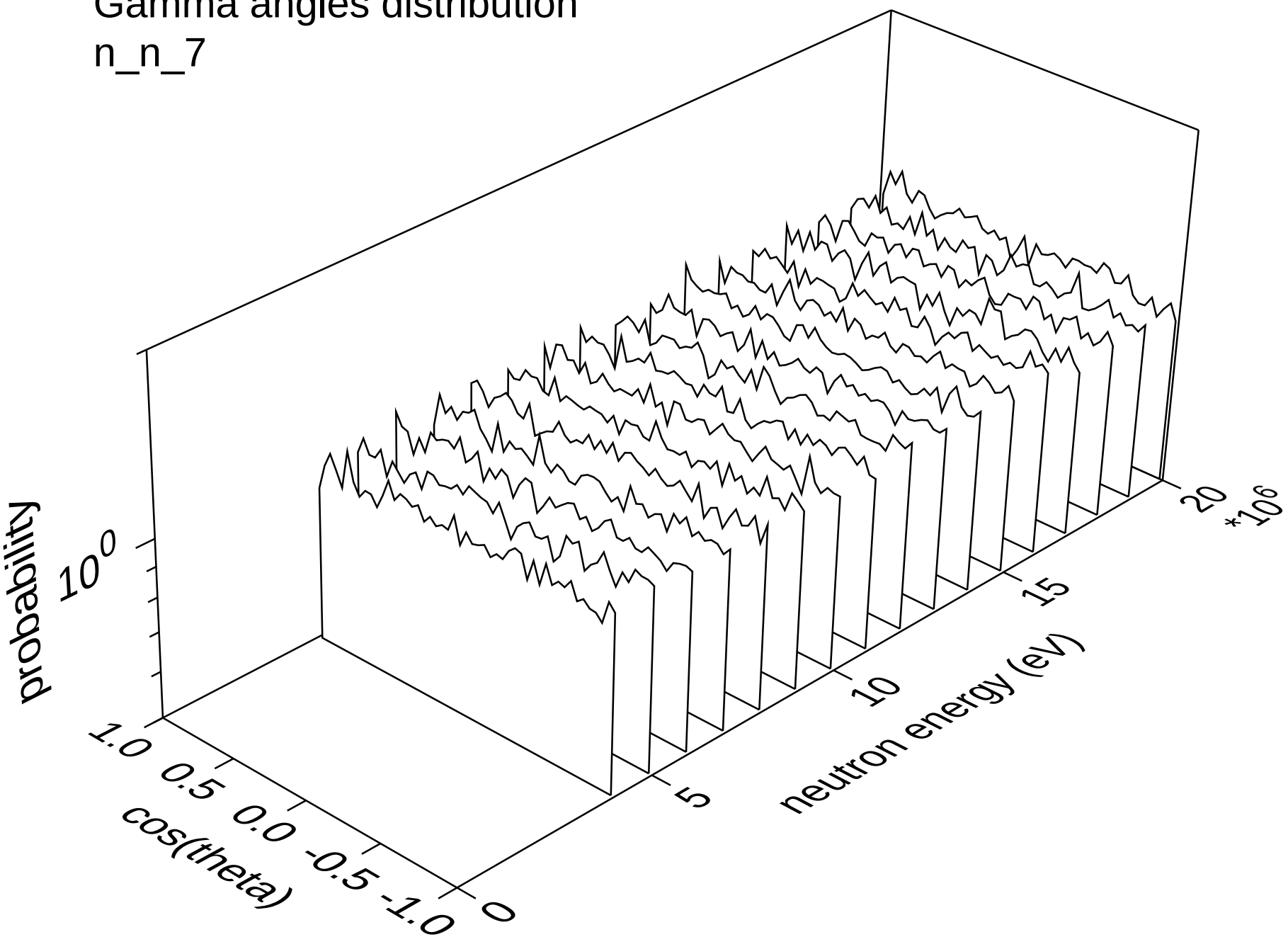

Gamma energy distribution
n_n_6
probability
100
80
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_n_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)

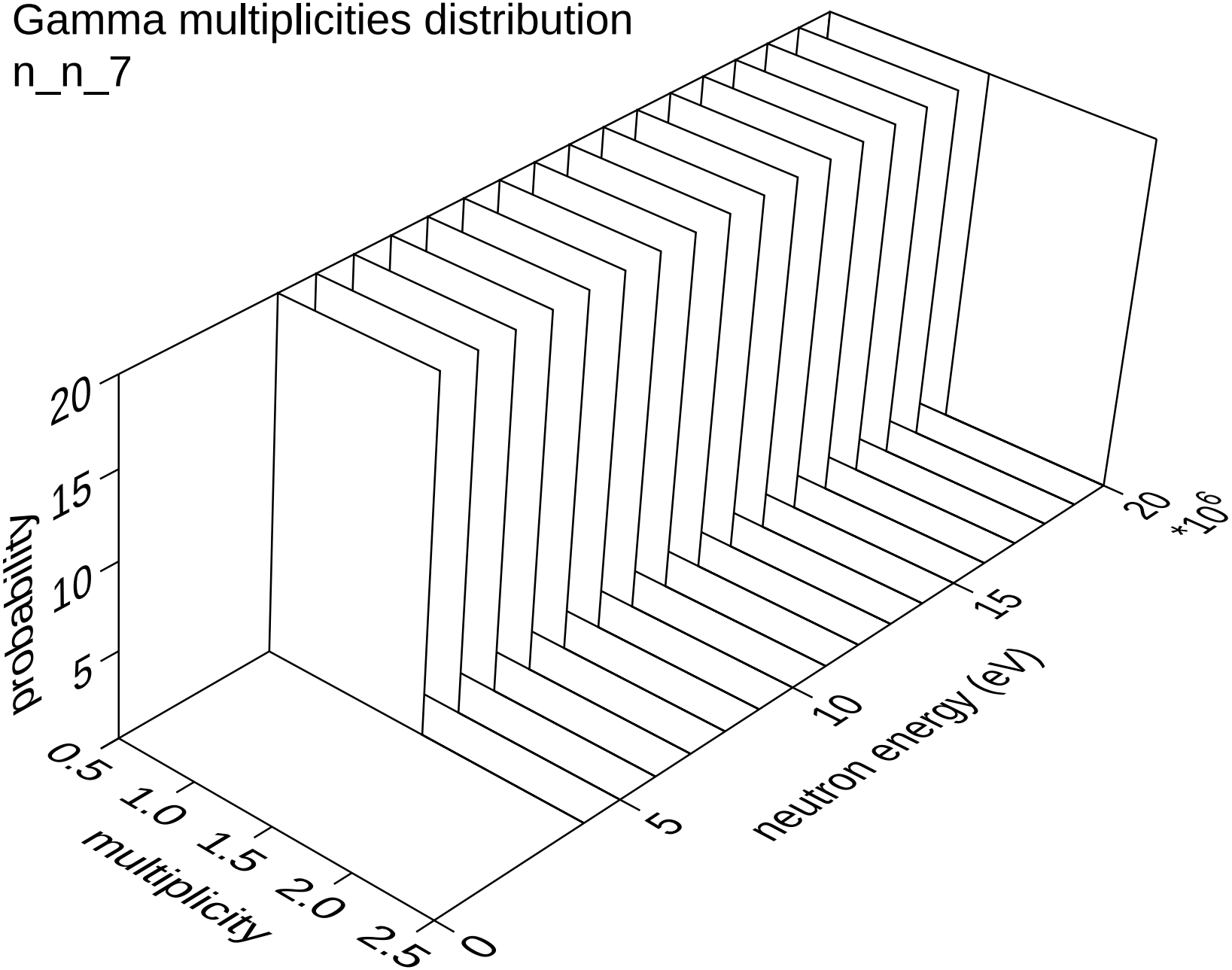
Gamma multiplicities distribution
n_n_6

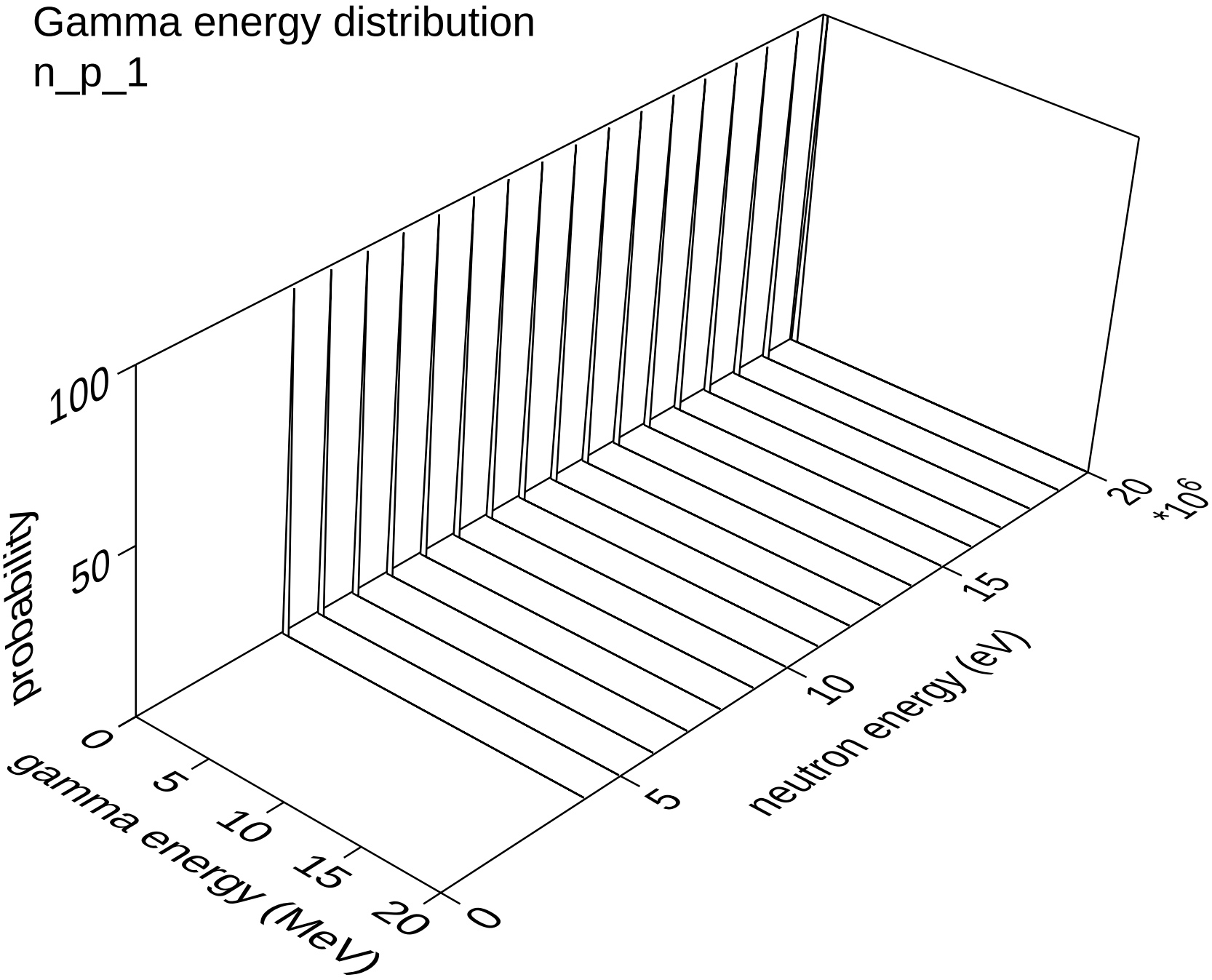


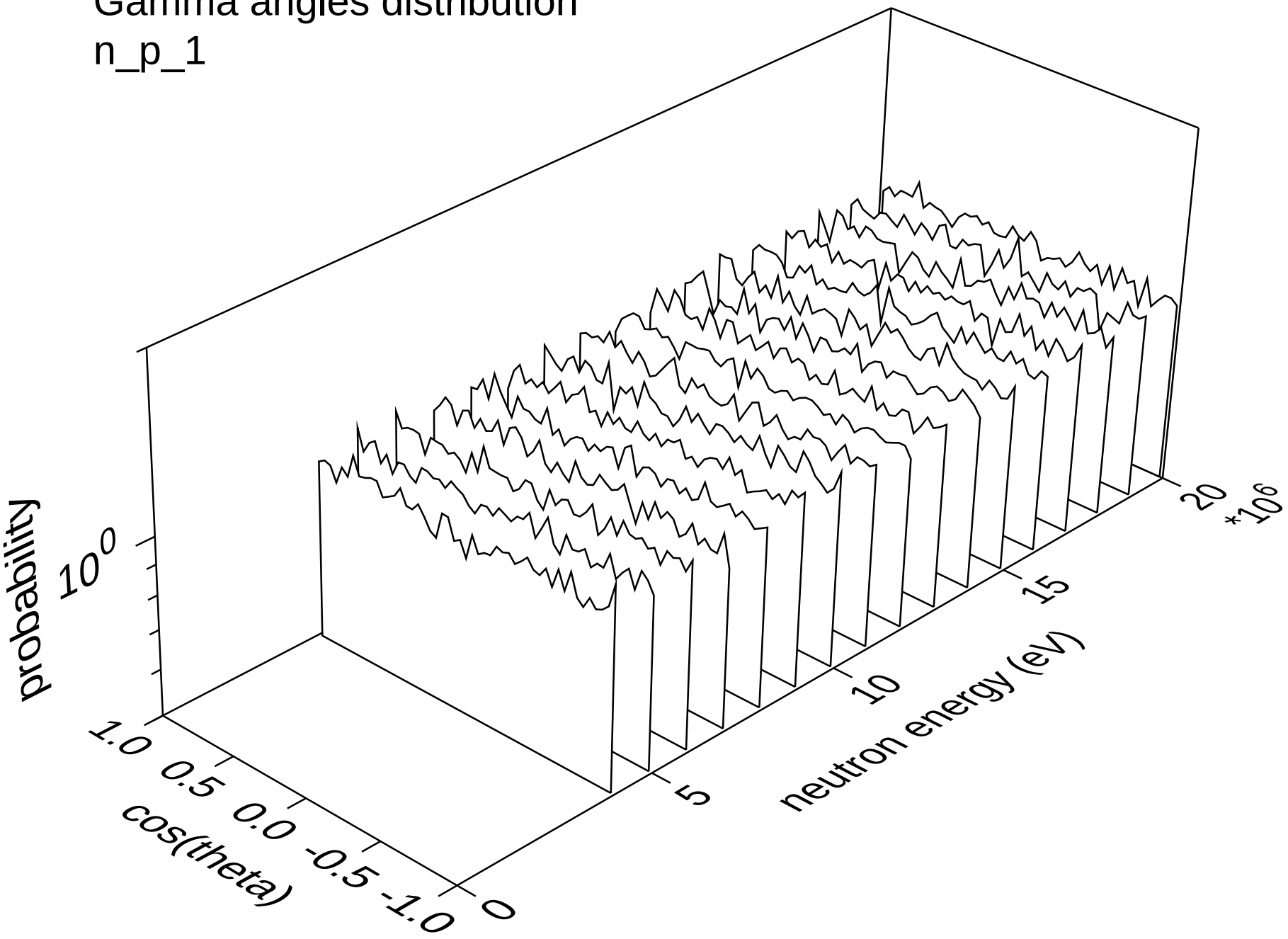

Gamma energy distribution
n_n_7
probability
80
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


Gamma angles distribution
n_n_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)

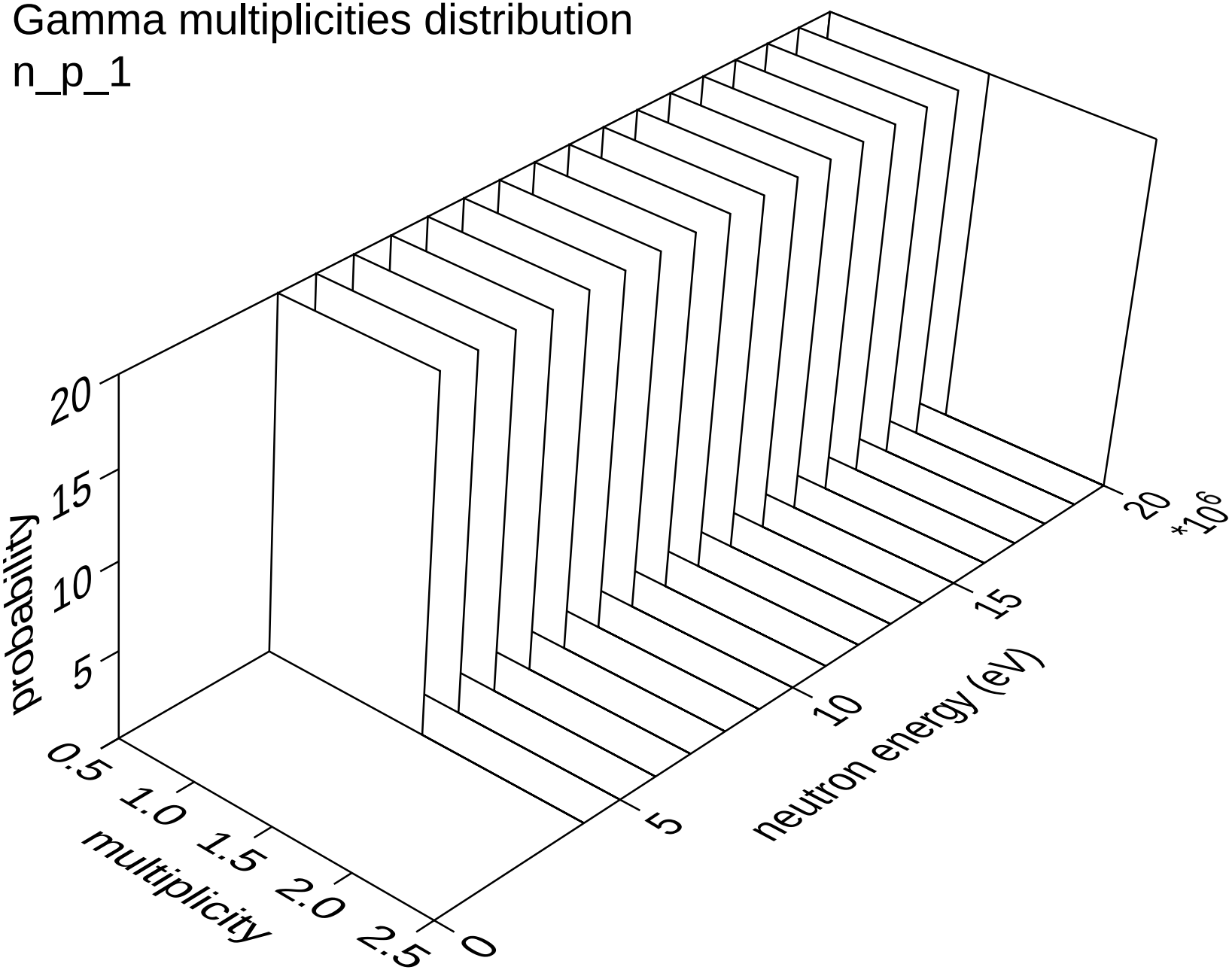
Gamma multiplicities distribution
n_n_7

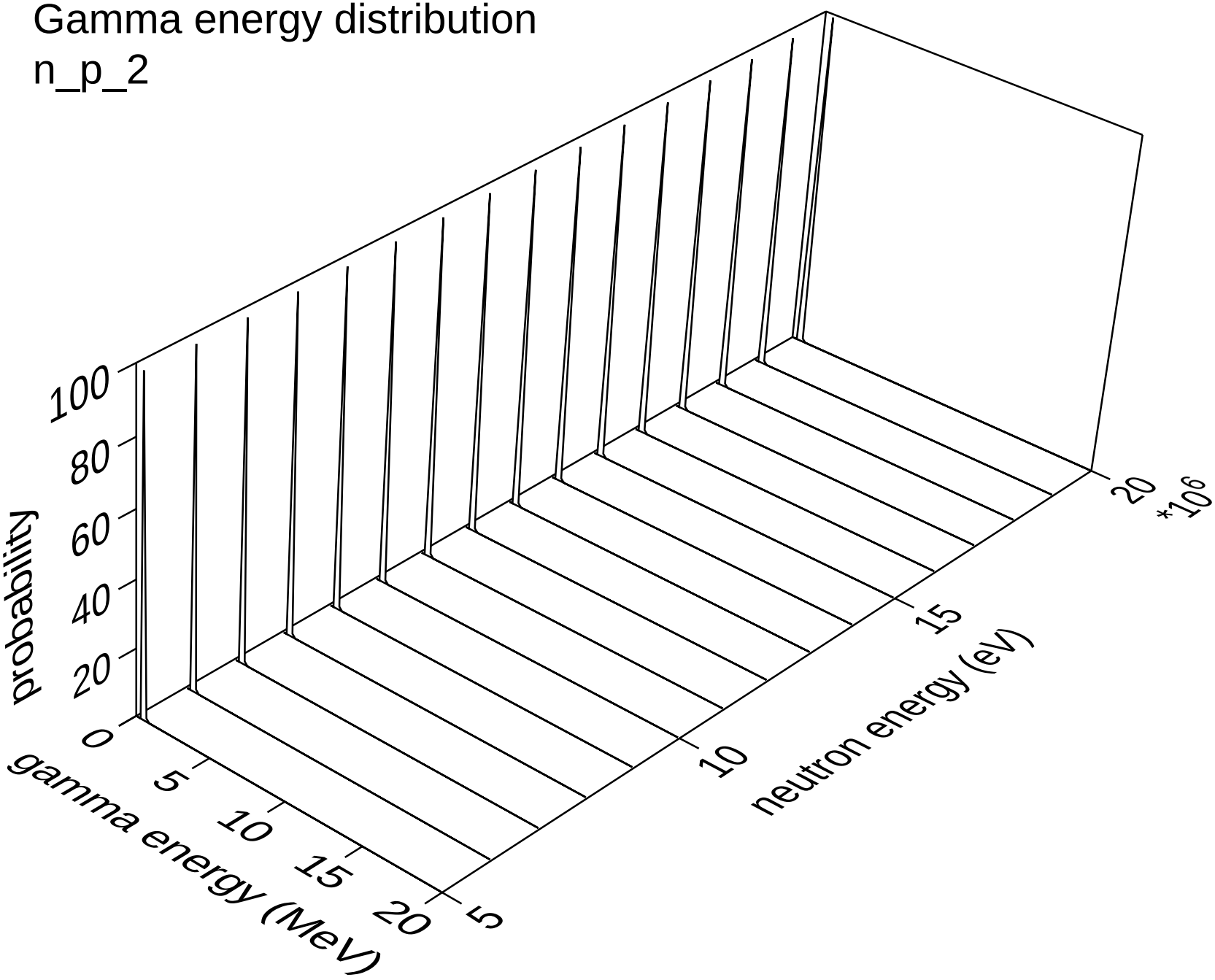


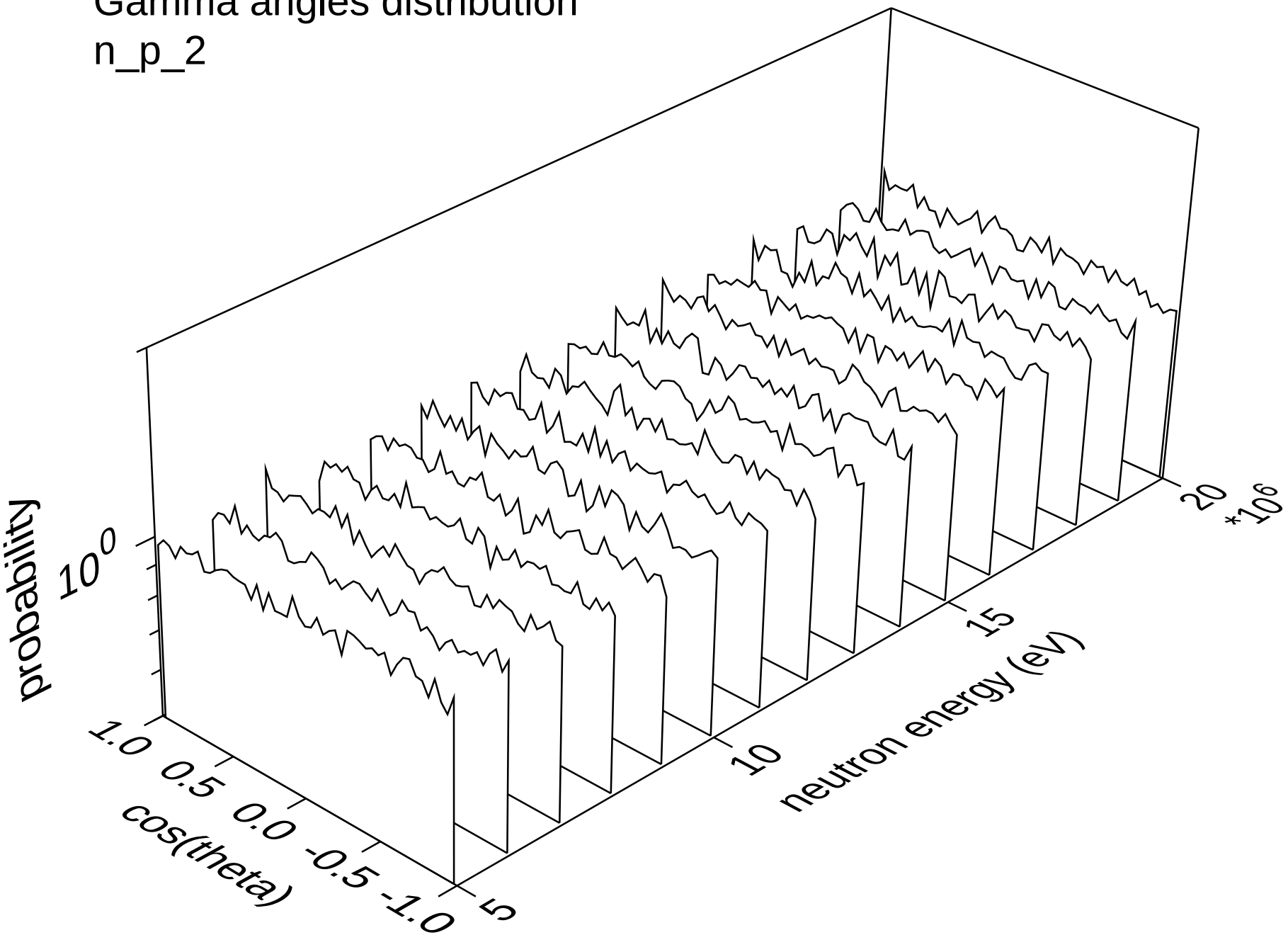

Gamma energy distribution
n_p_1
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
0
5
10
15
20
*10^6


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)

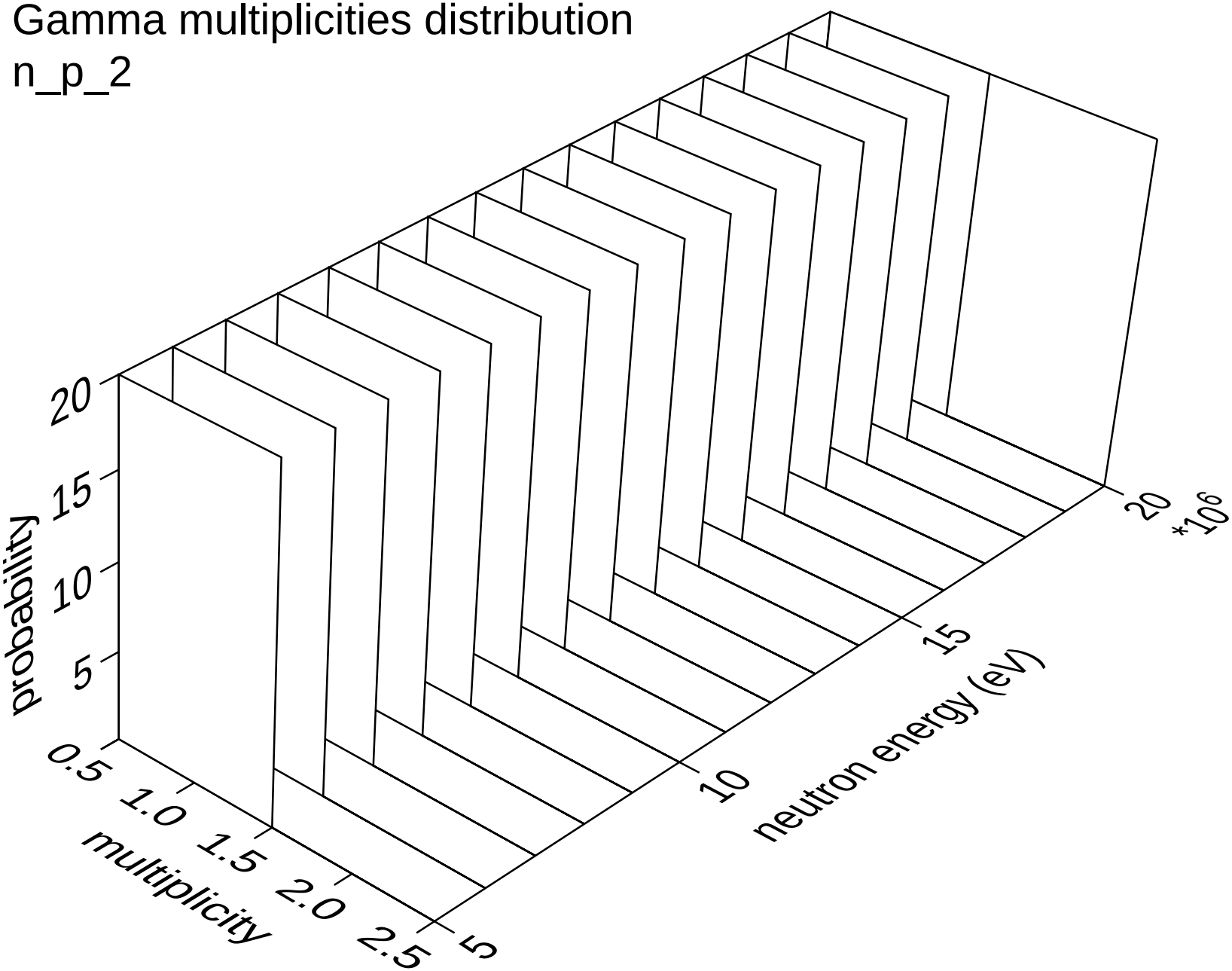
Gamma multiplicities distribution
n_p_1

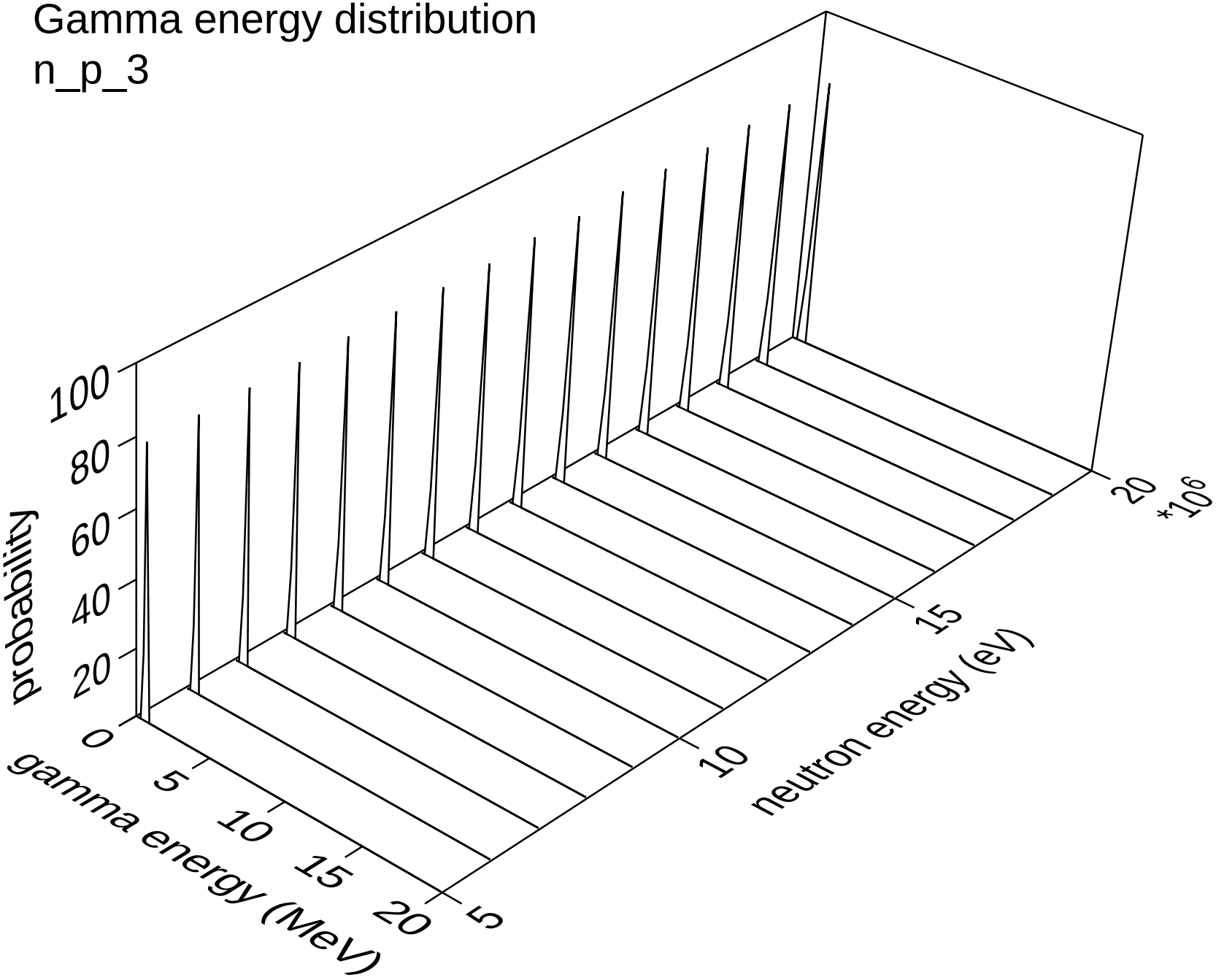


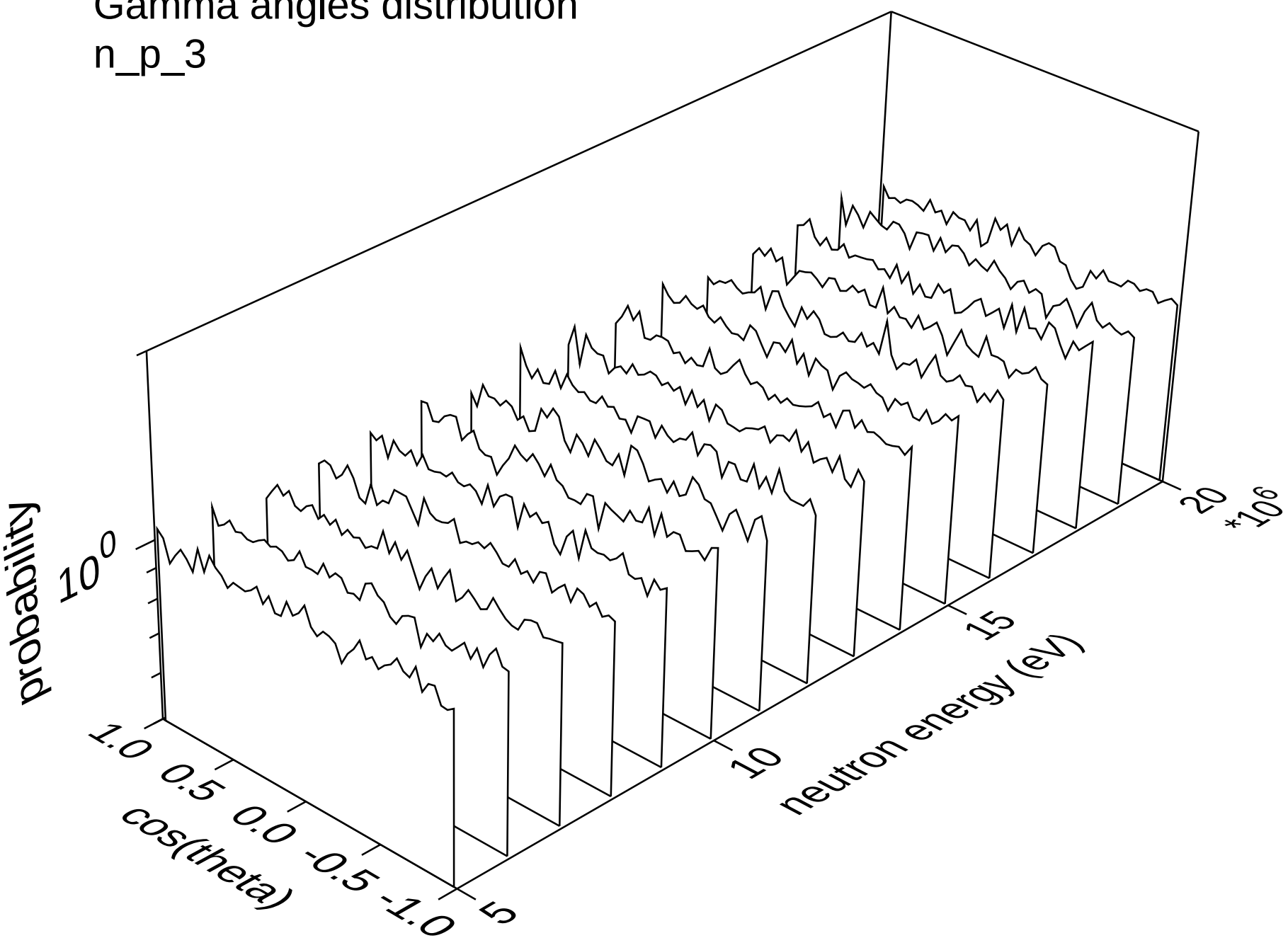

Gamma energy distribution
n_p_2
probability
100
80
60
40
20
0
gamma energy (MeV)
5
10
15
20
neutron energy (eV)
10
15
20
*10^6


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

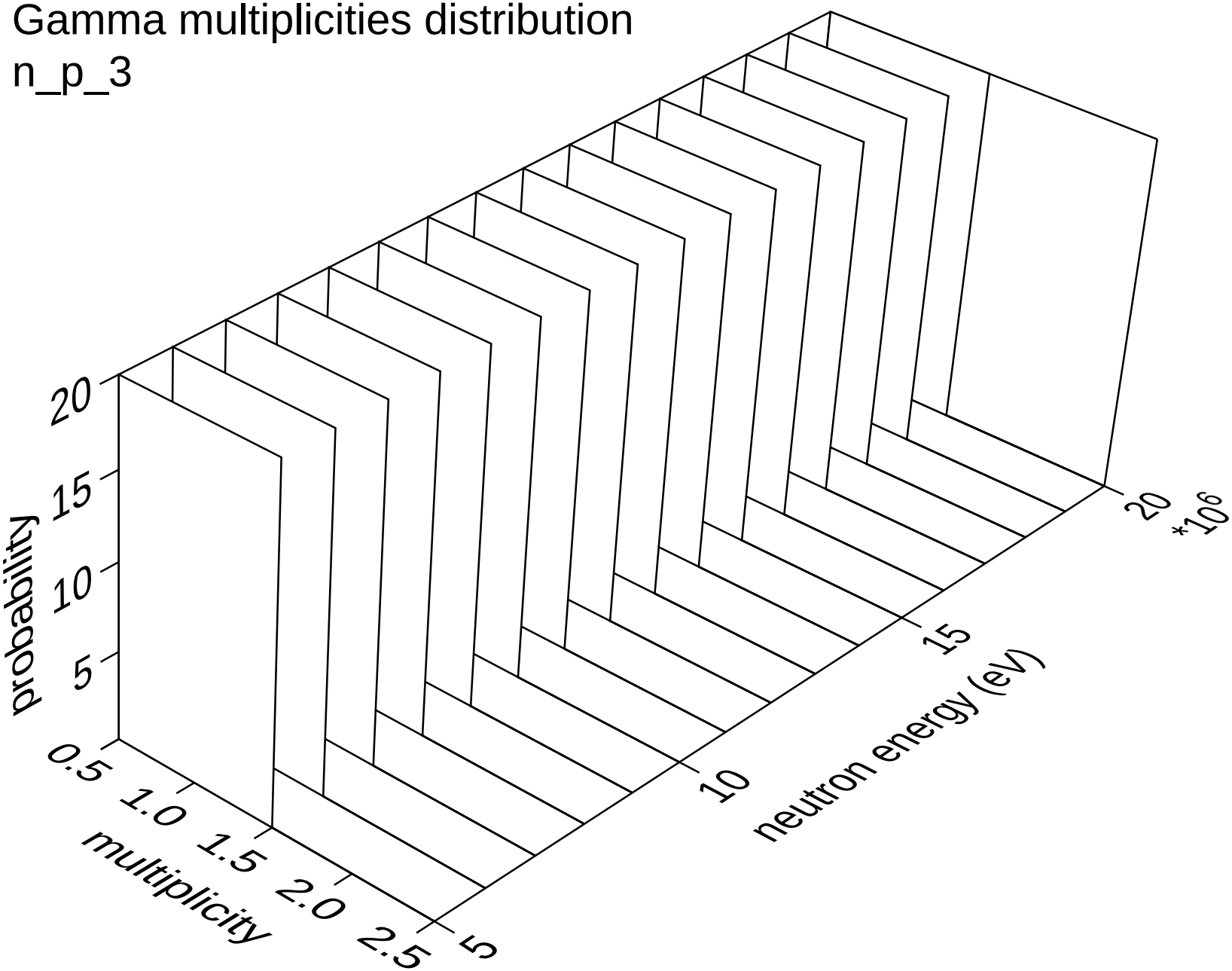
Gamma multiplicities distribution
n_p_2

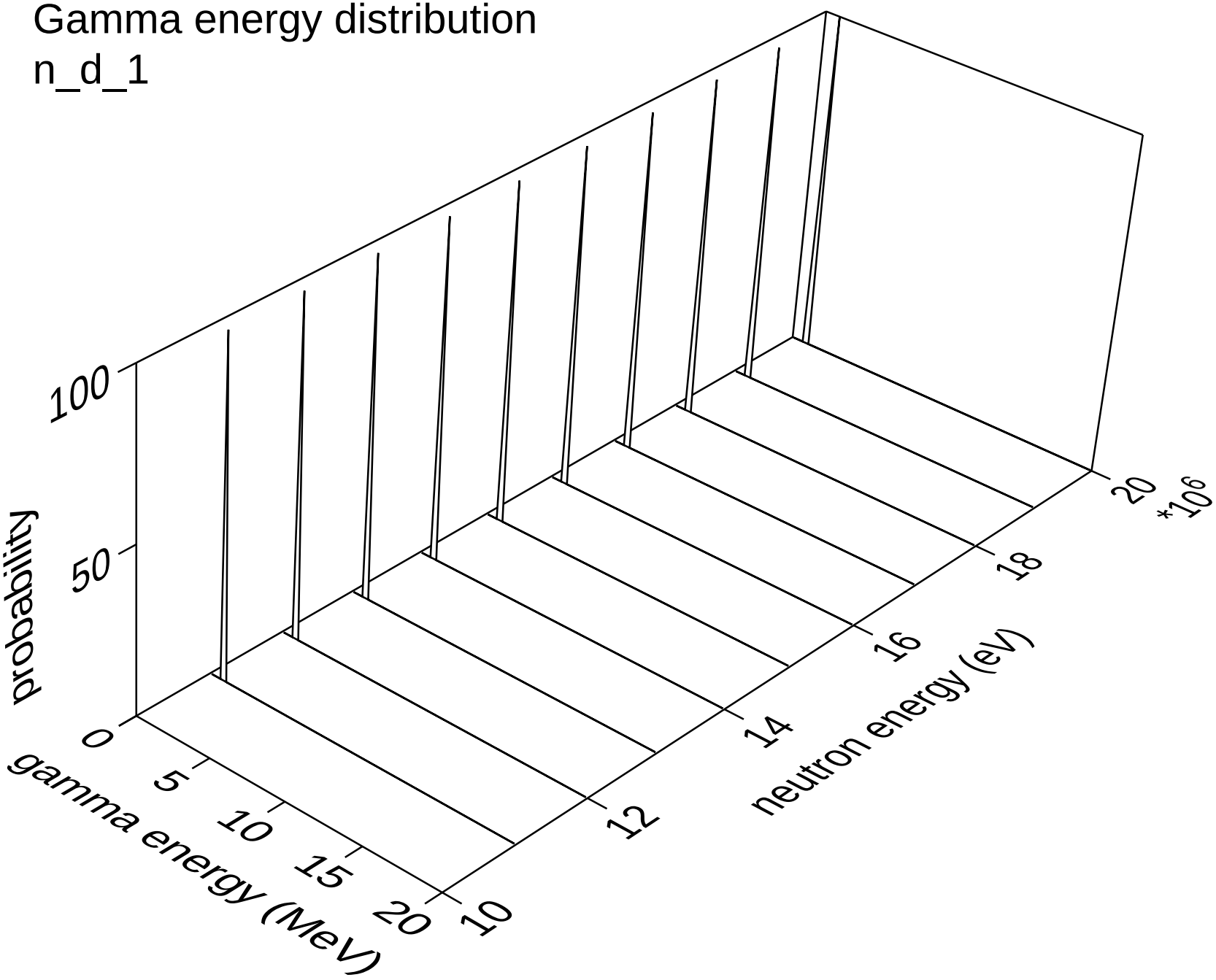


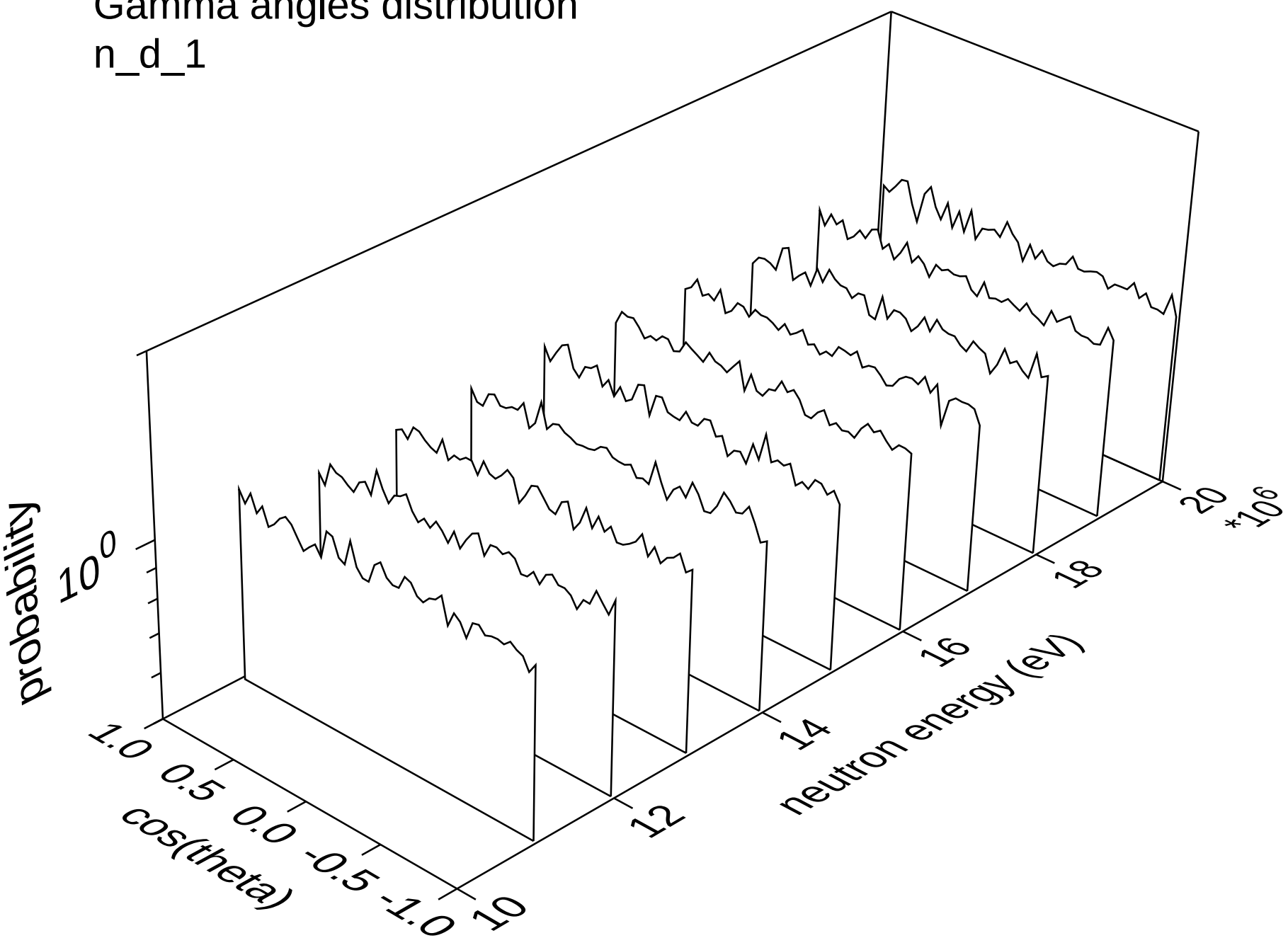

Gamma energy distribution
n_p_3
probability
100
80
60
40
20
0
gamma energy (MeV)
5
10
15
20
neutron energy (eV)
10
15
20
*10^6


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

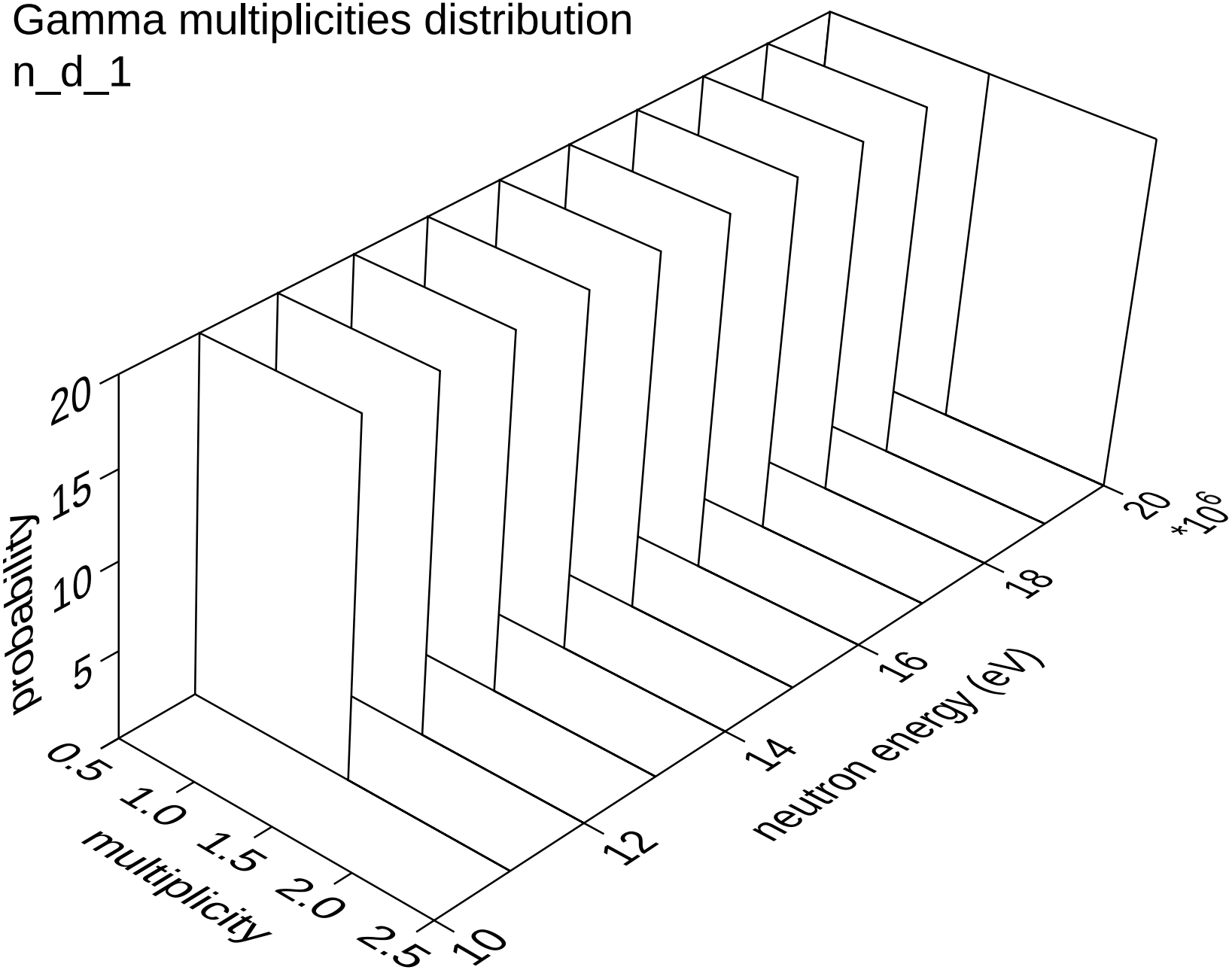
Gamma multiplicities distribution
n_p_3

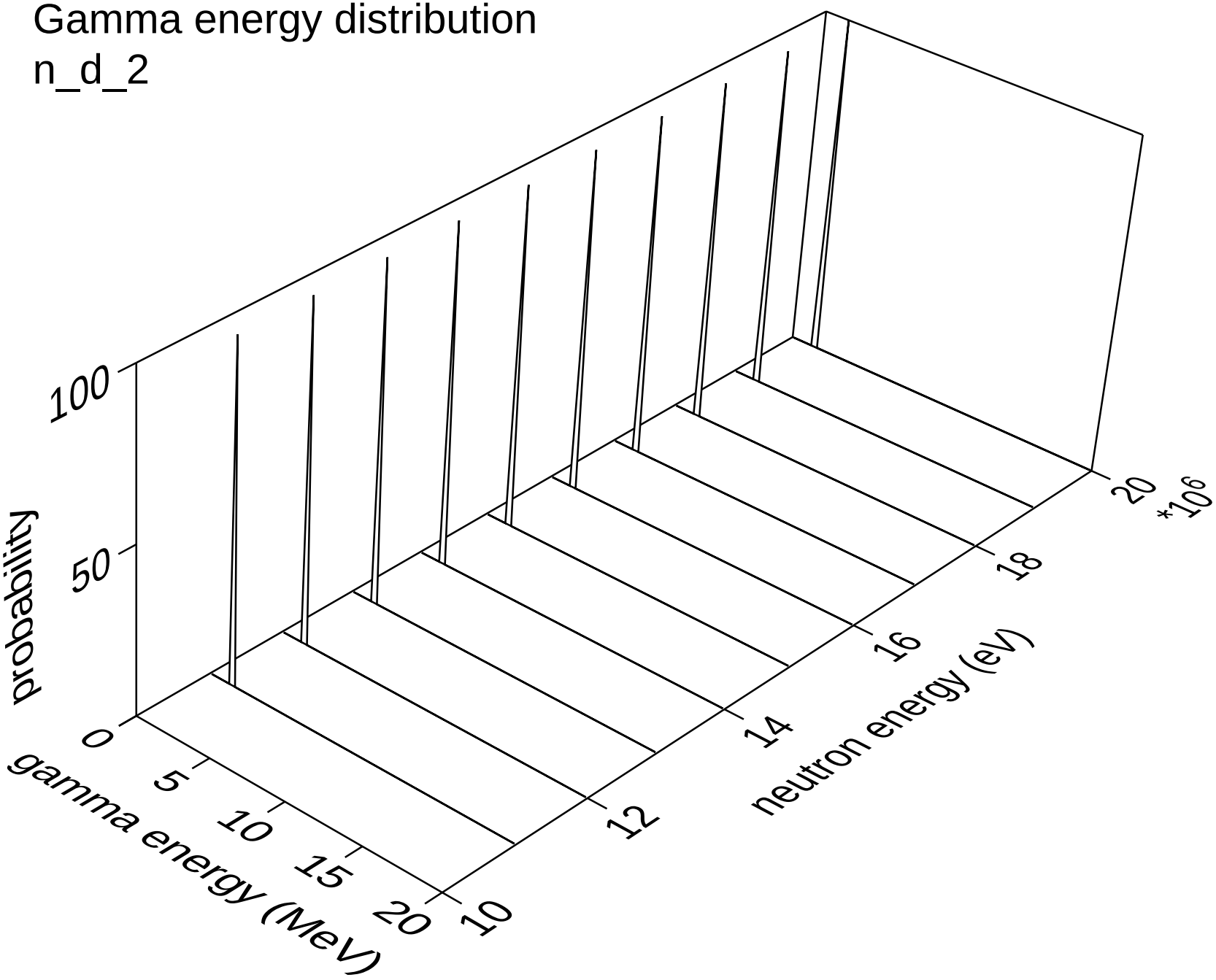


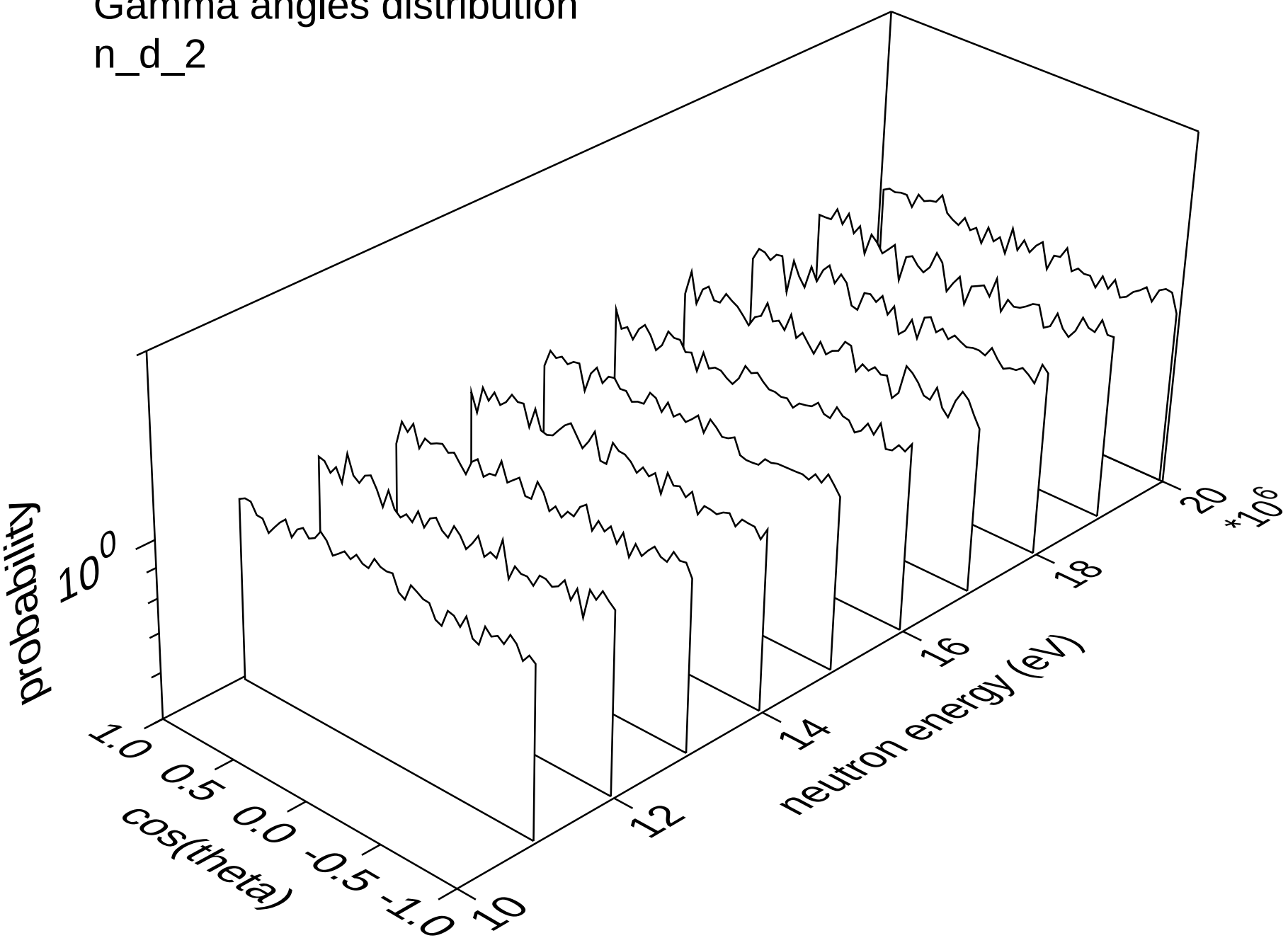

Gamma energy distribution
n_d_1
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
10
12
14
16
18
20
*10^6


Gamma angles distribution
n_d_1
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)

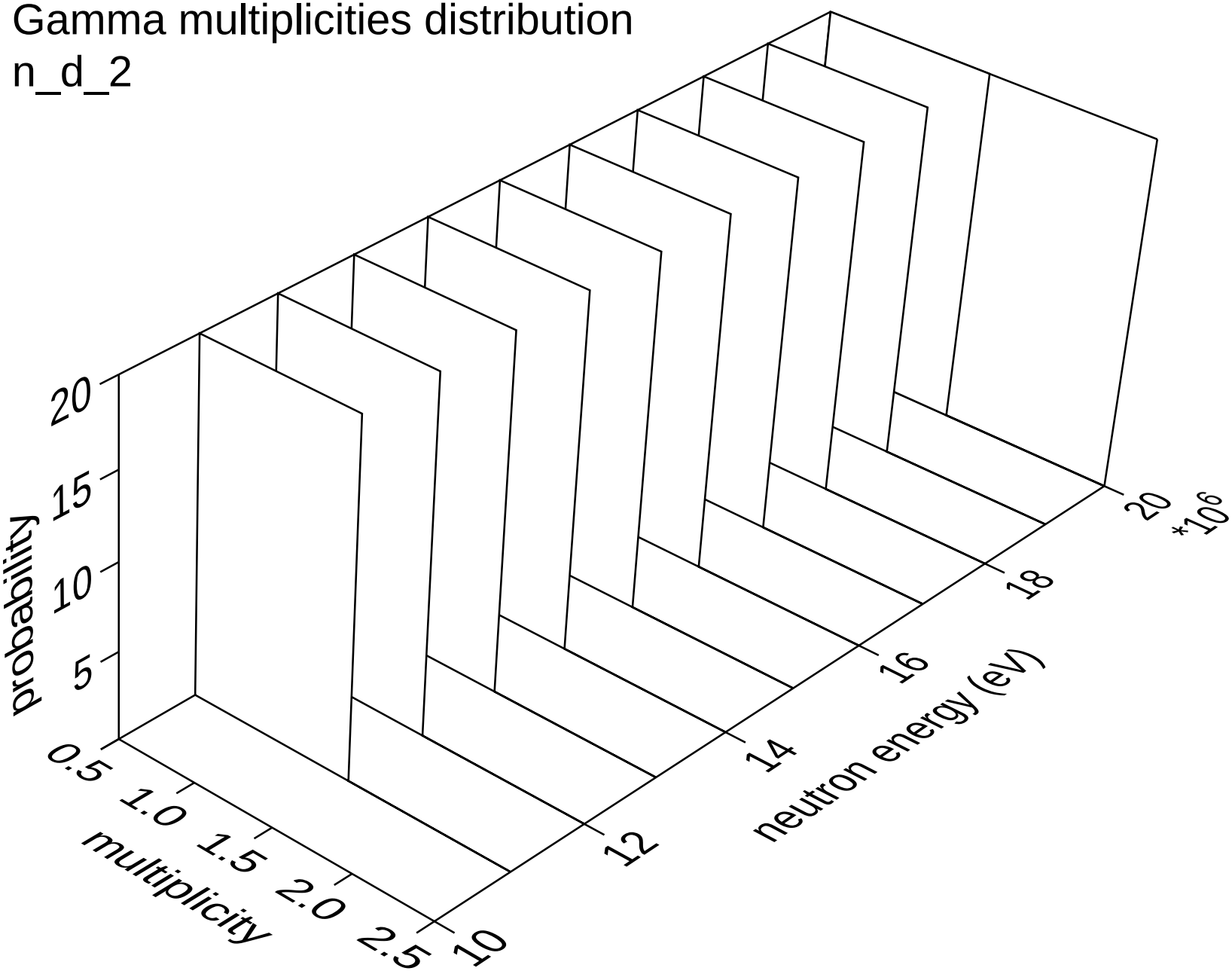
Gamma multiplicities distribution
n_d_1

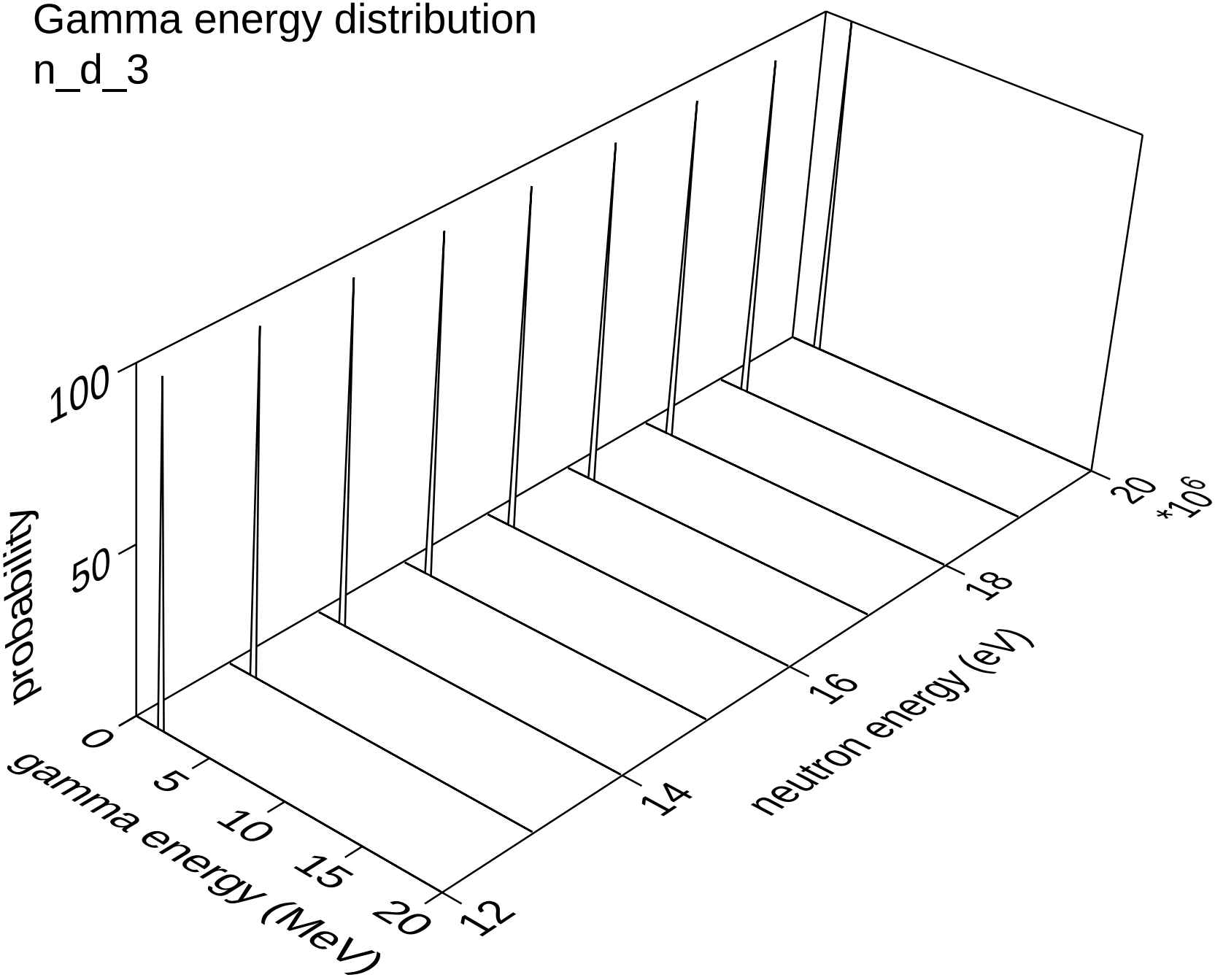


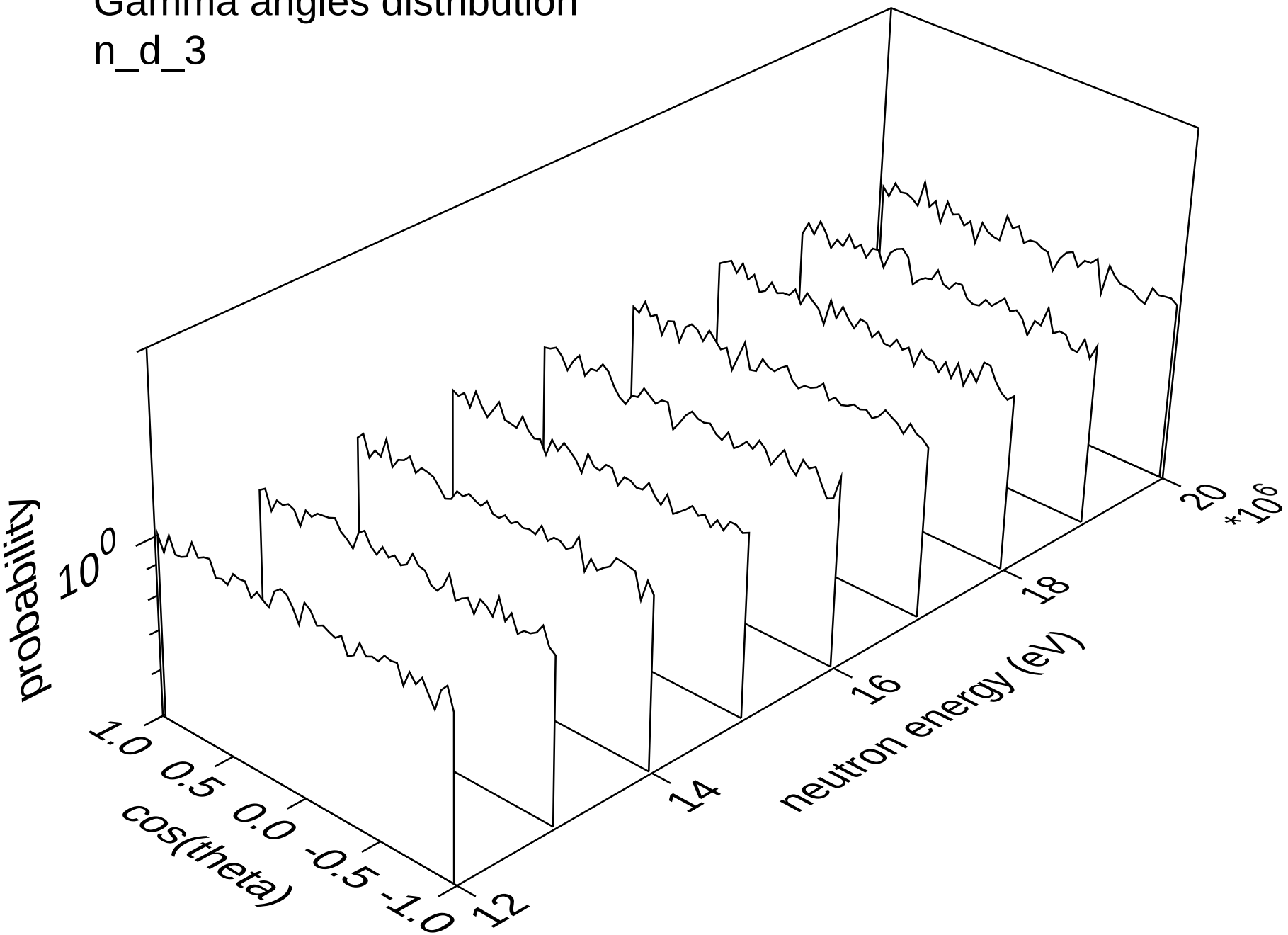

Gamma energy distribution
n_d_2
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
10
12
14
16
18
20
*10^6


Gamma angles distribution
n_d_2
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)

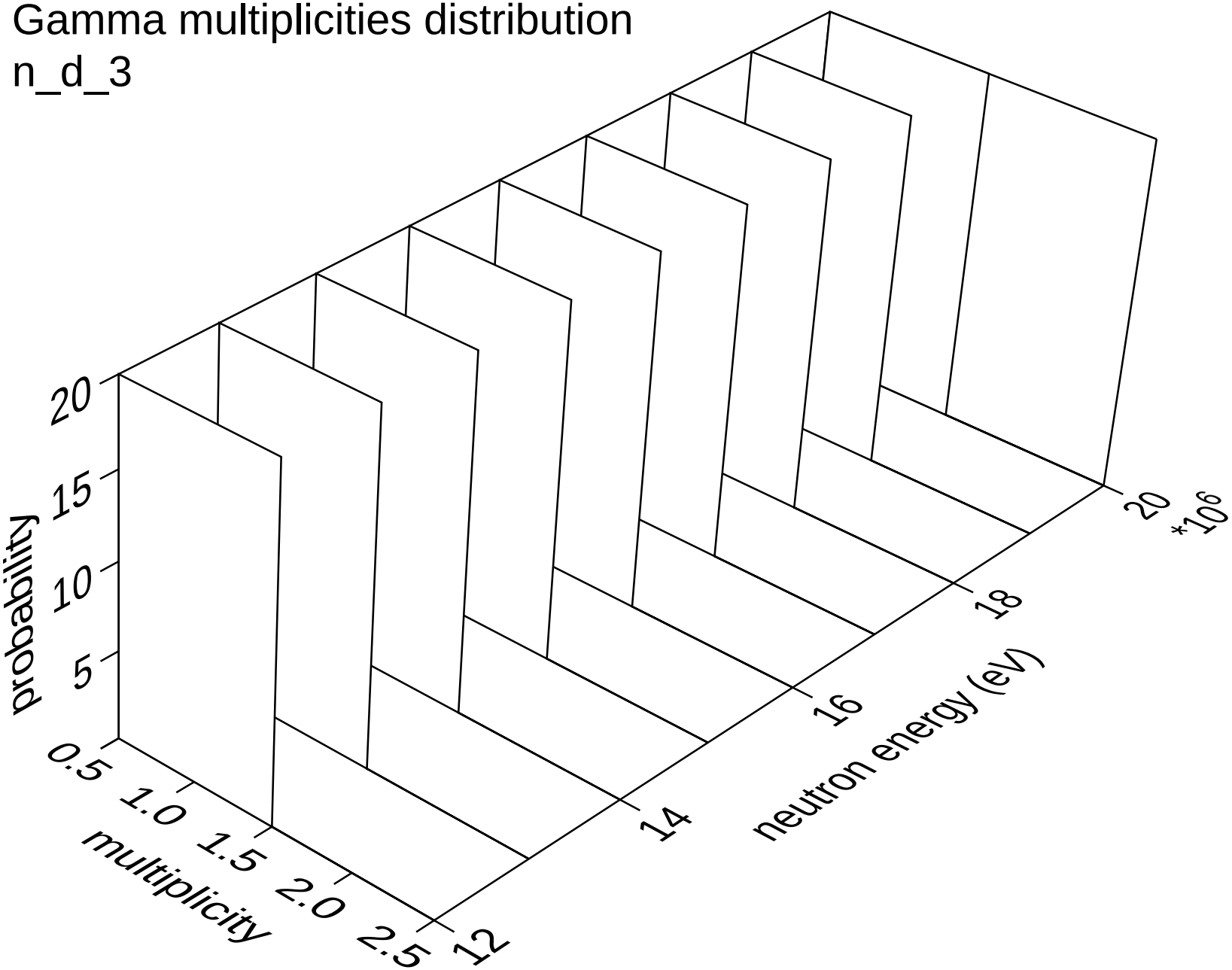
Gamma multiplicities distribution
n_d_2

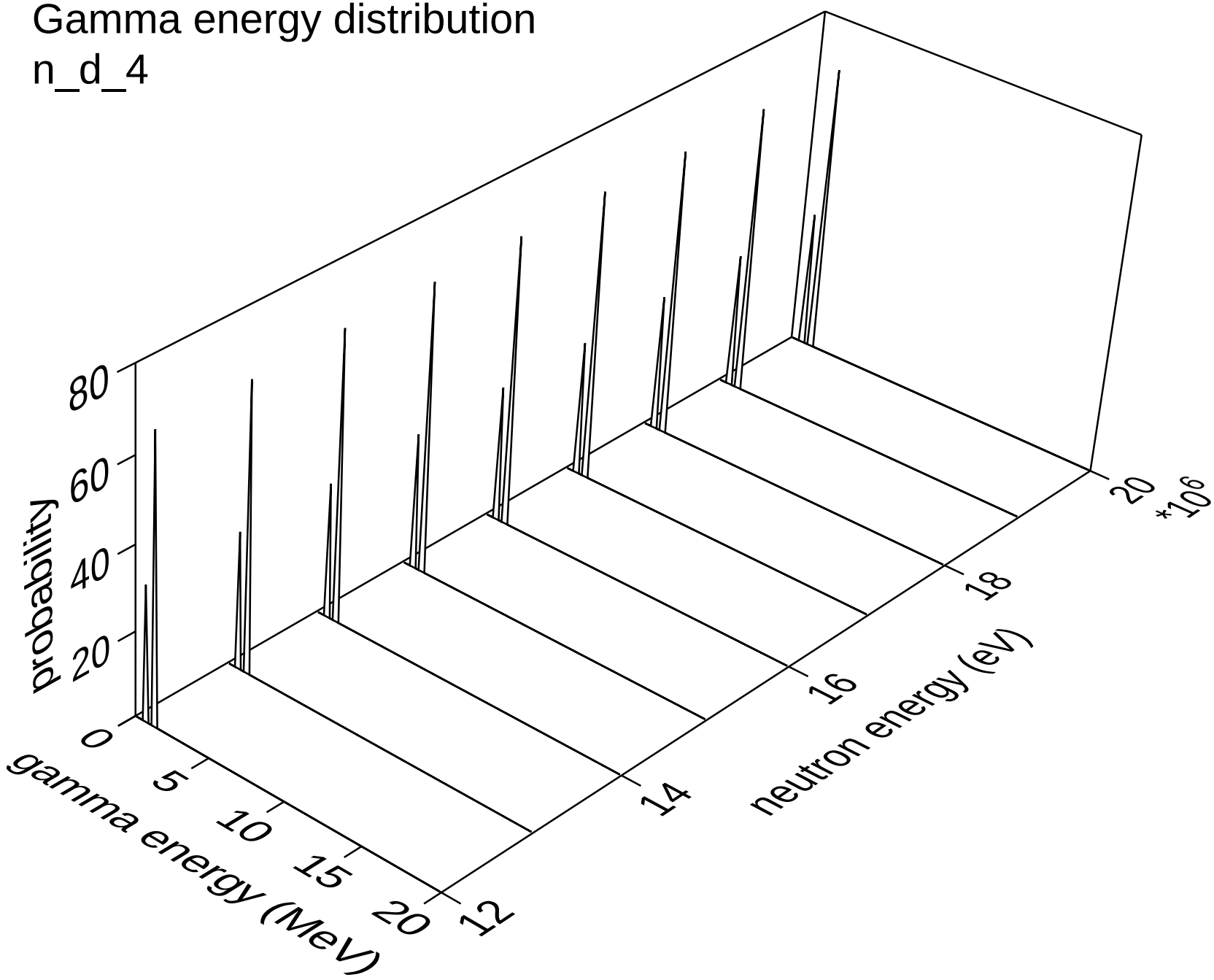


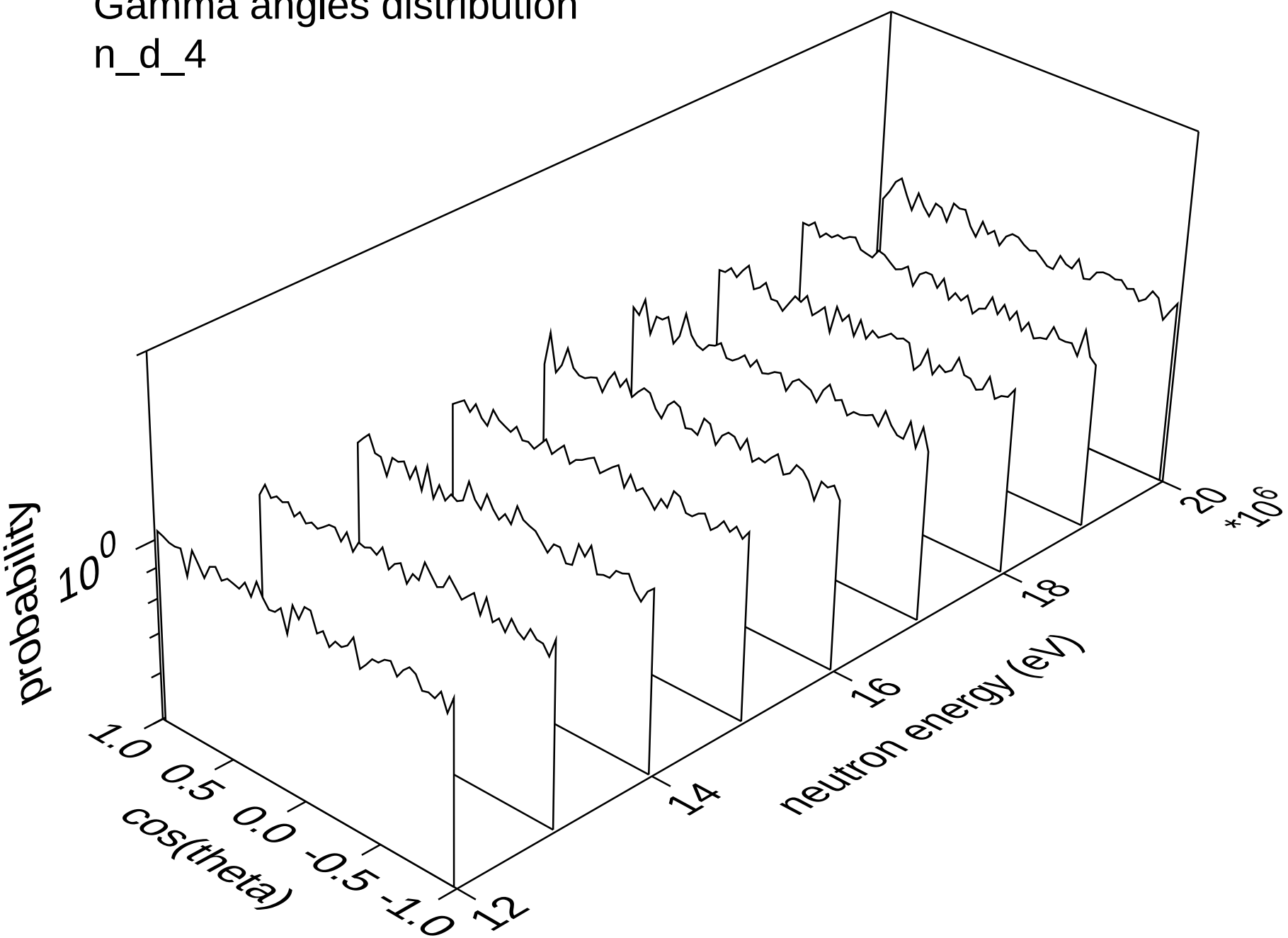

Gamma energy distribution
n_d_3
probability
100
50
0
gamma energy (MeV)
5
10
15
20
12
14
16
18
20
*10^6
neutron energy (eV)


Gamma angles distribution
n_d_3
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)

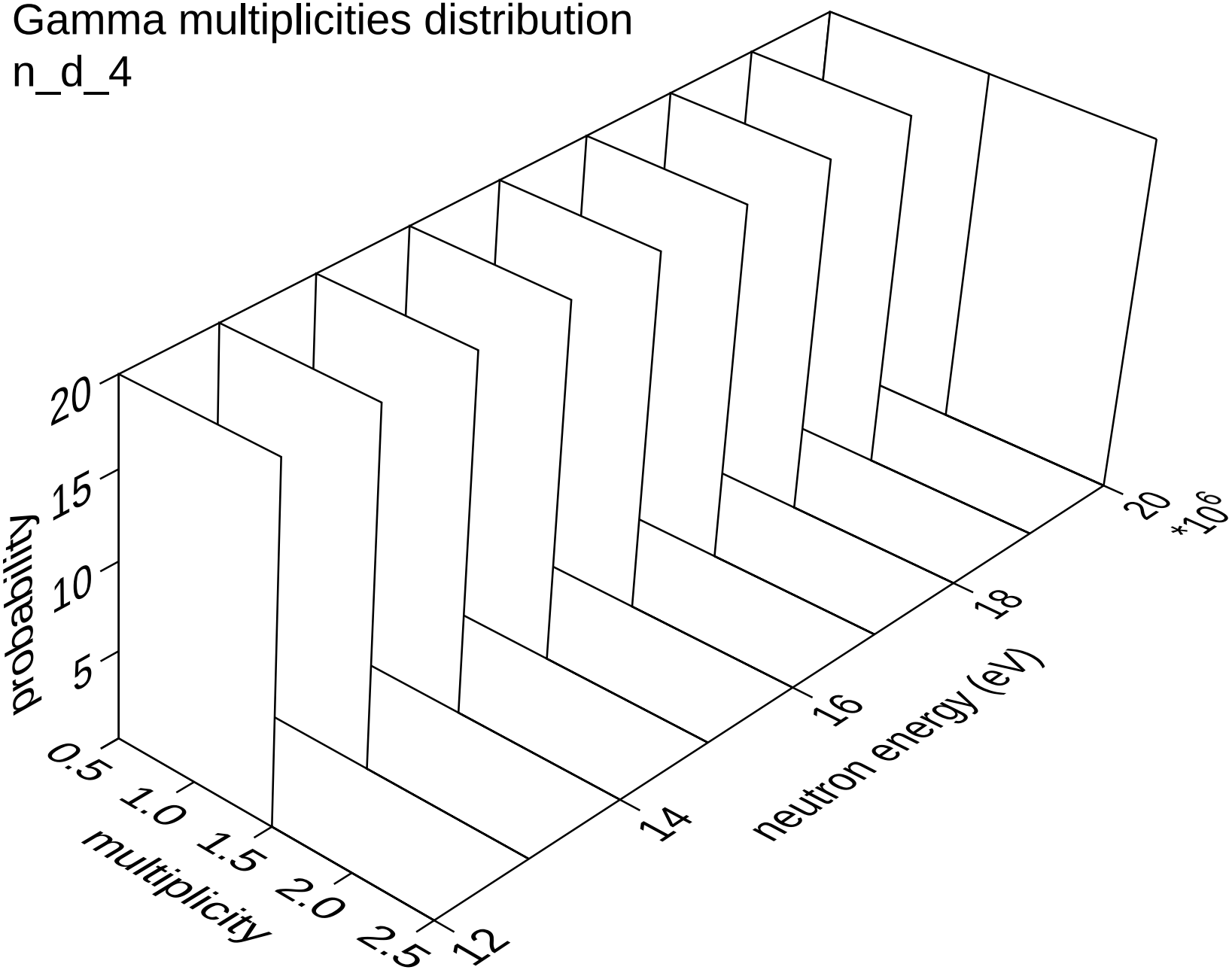
Gamma multiplicities distribution
n_d_3

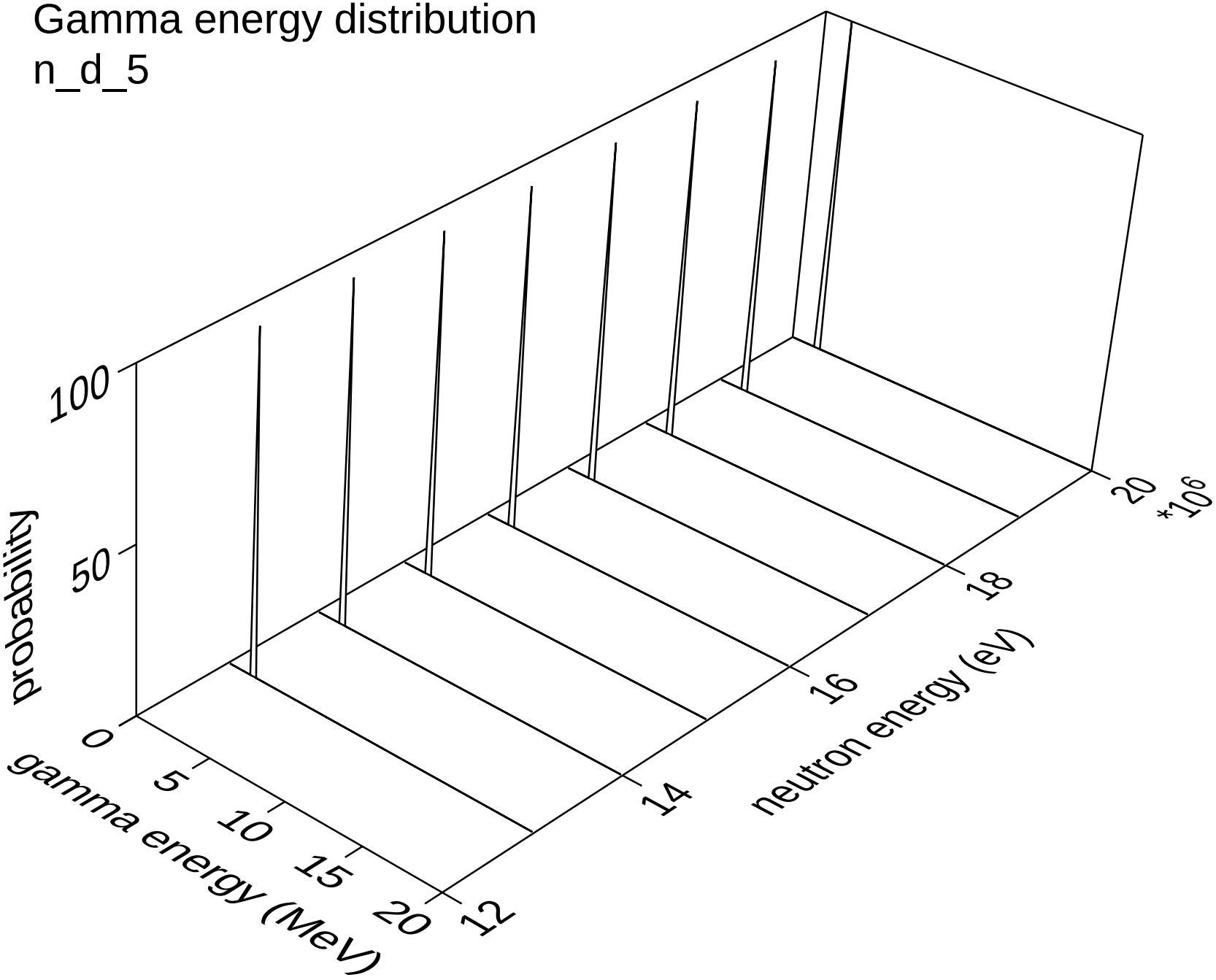


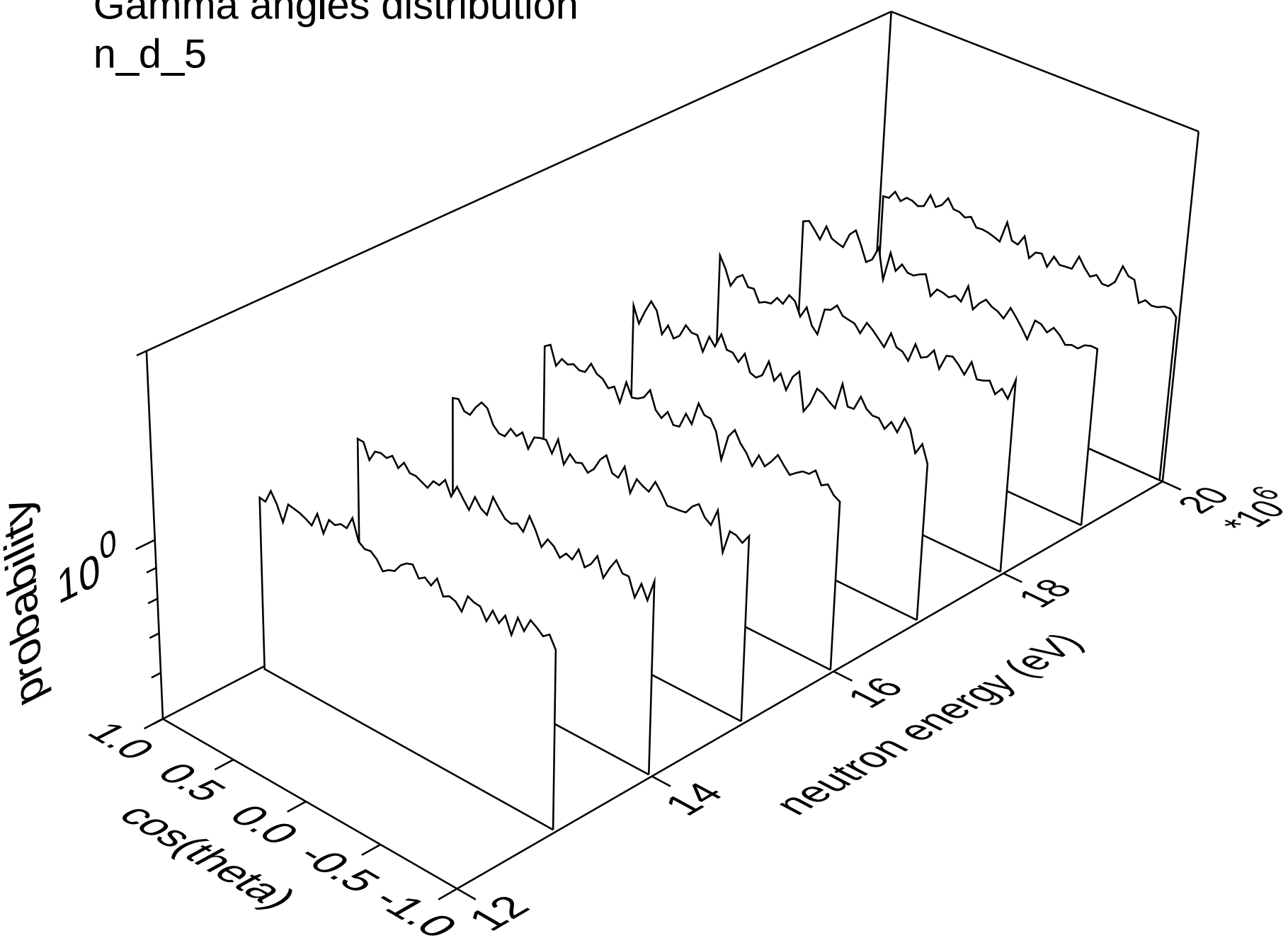

Gamma energy distribution
n_d_4
probability
0
20
40
60
80
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
12
14
16
18
20
*10^6


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

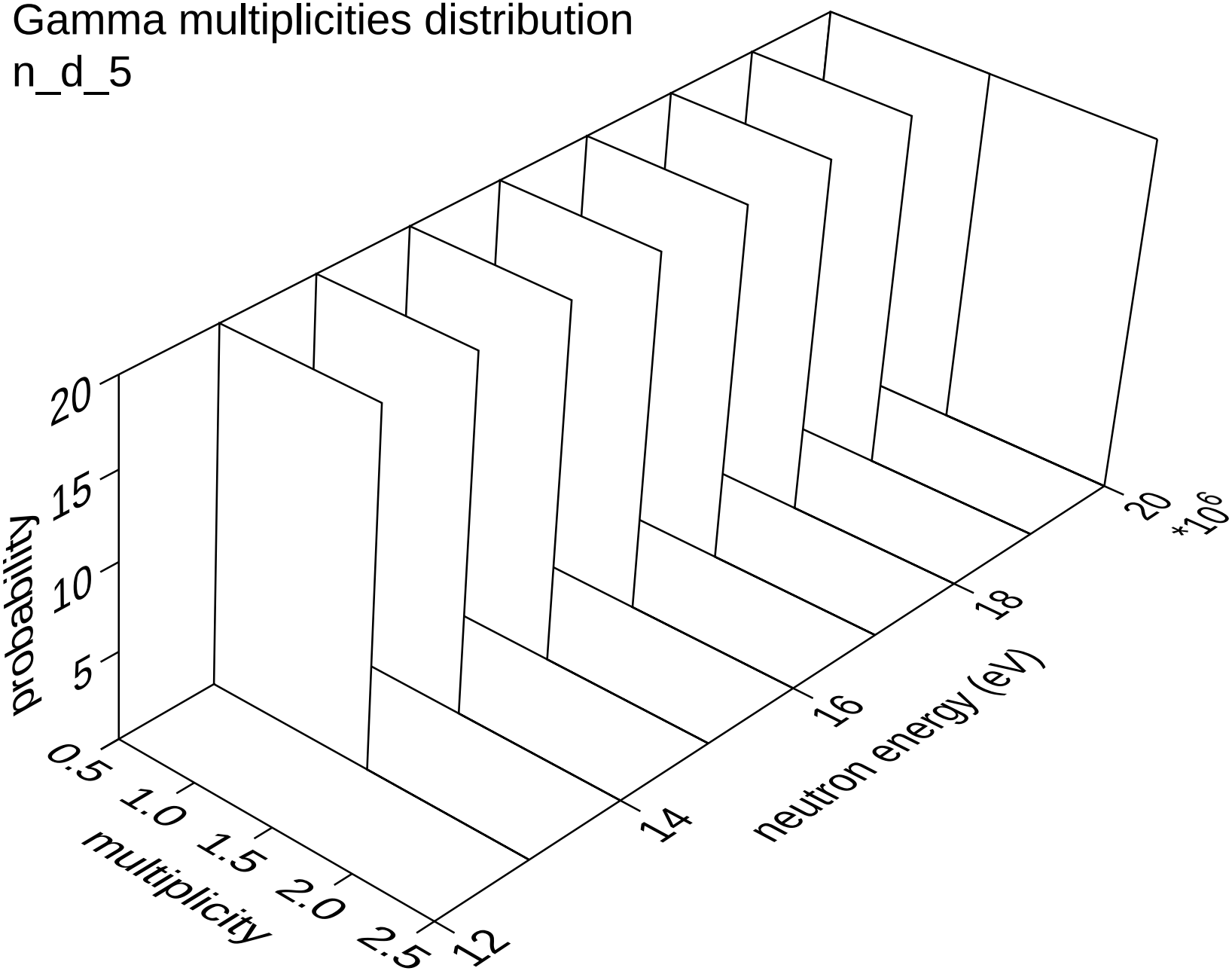
Gamma multiplicities distribution
n_d_4

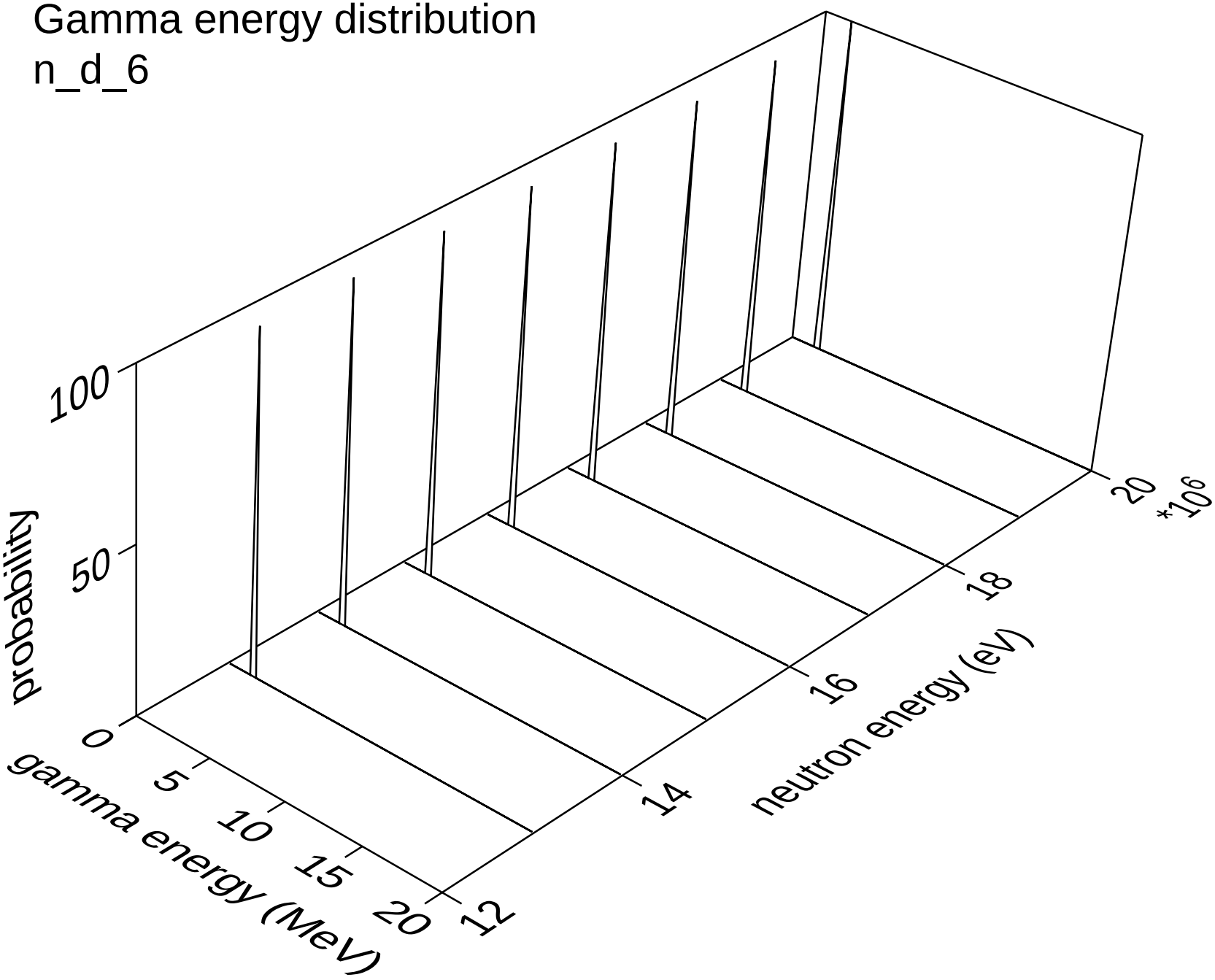


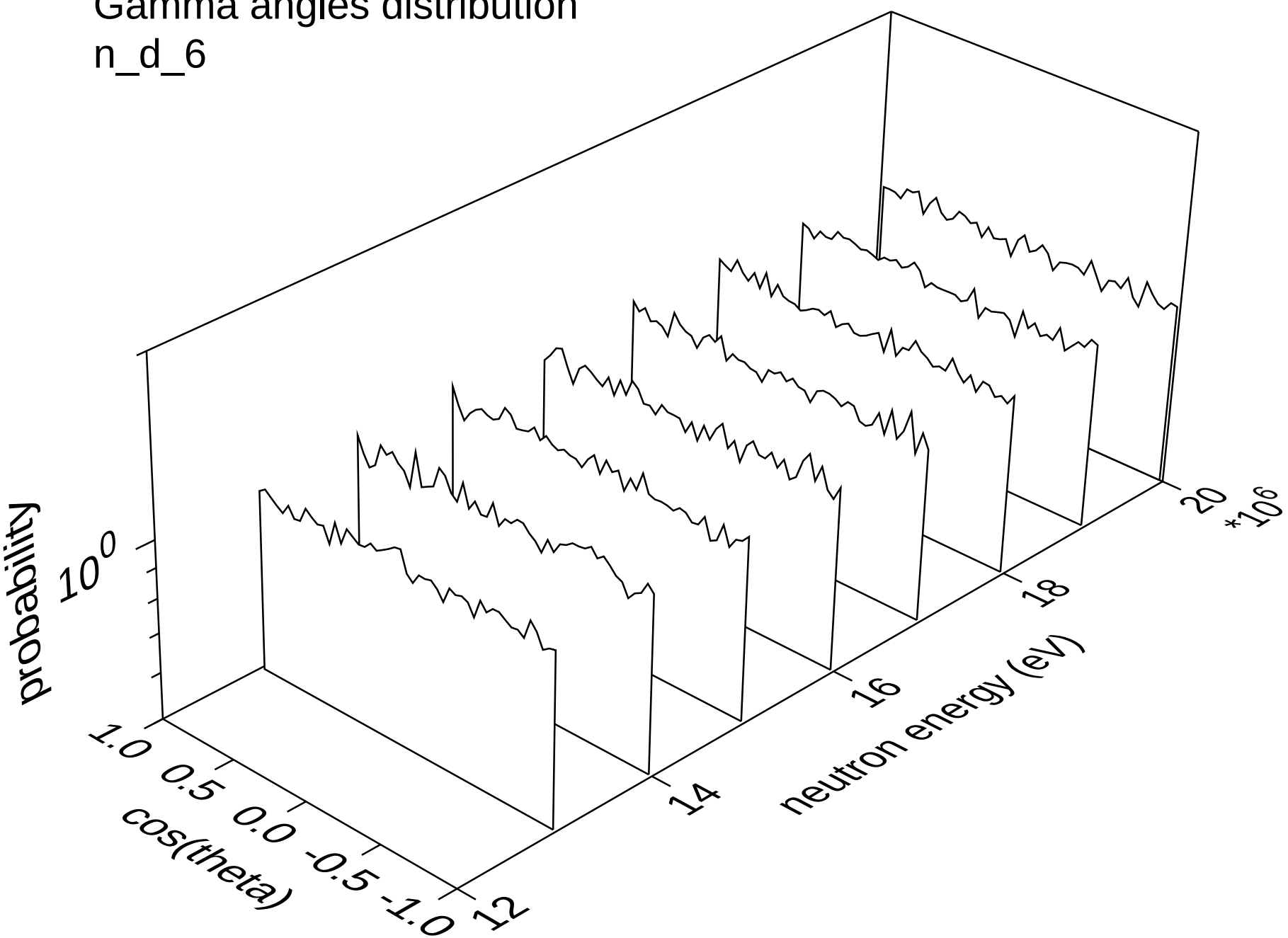

Gamma energy distribution
n_d_5
probability
100
50
0
gamma energy (MeV)
5
10
15
20
12
14
16
18
20
*10^6
neutron energy (eV)


Gamma angles distribution
n_d_5
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)

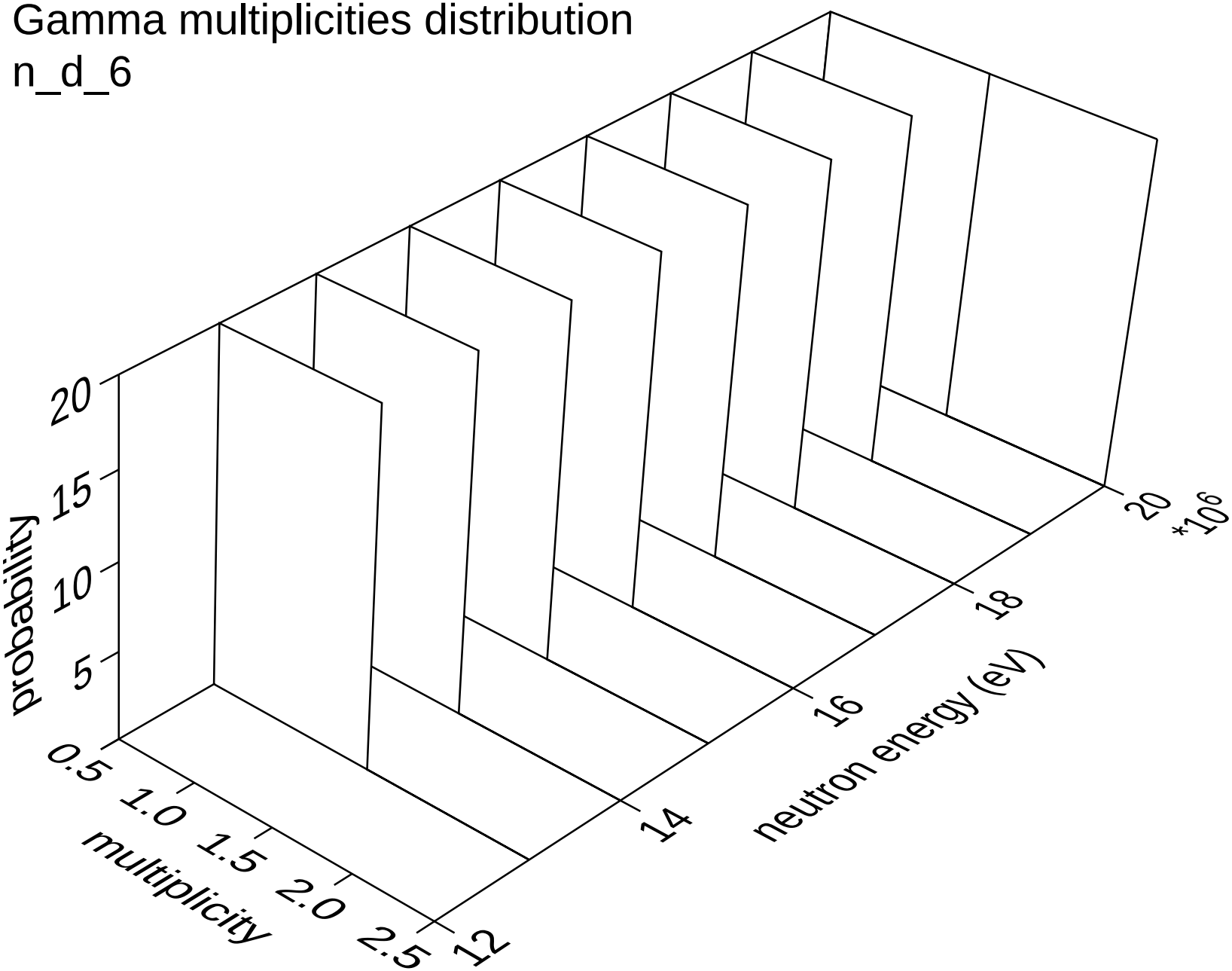
Gamma multiplicities distribution
n_d_5

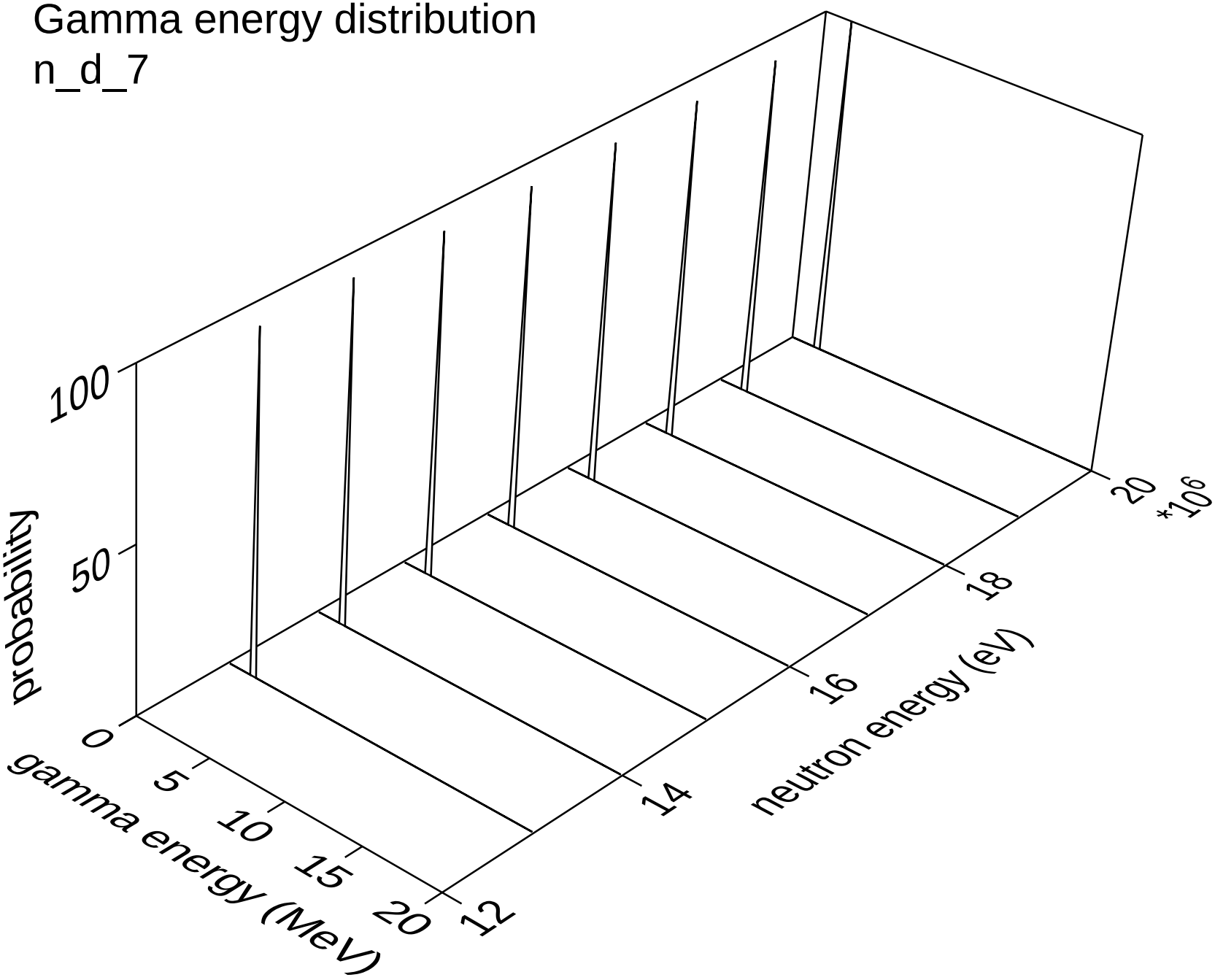


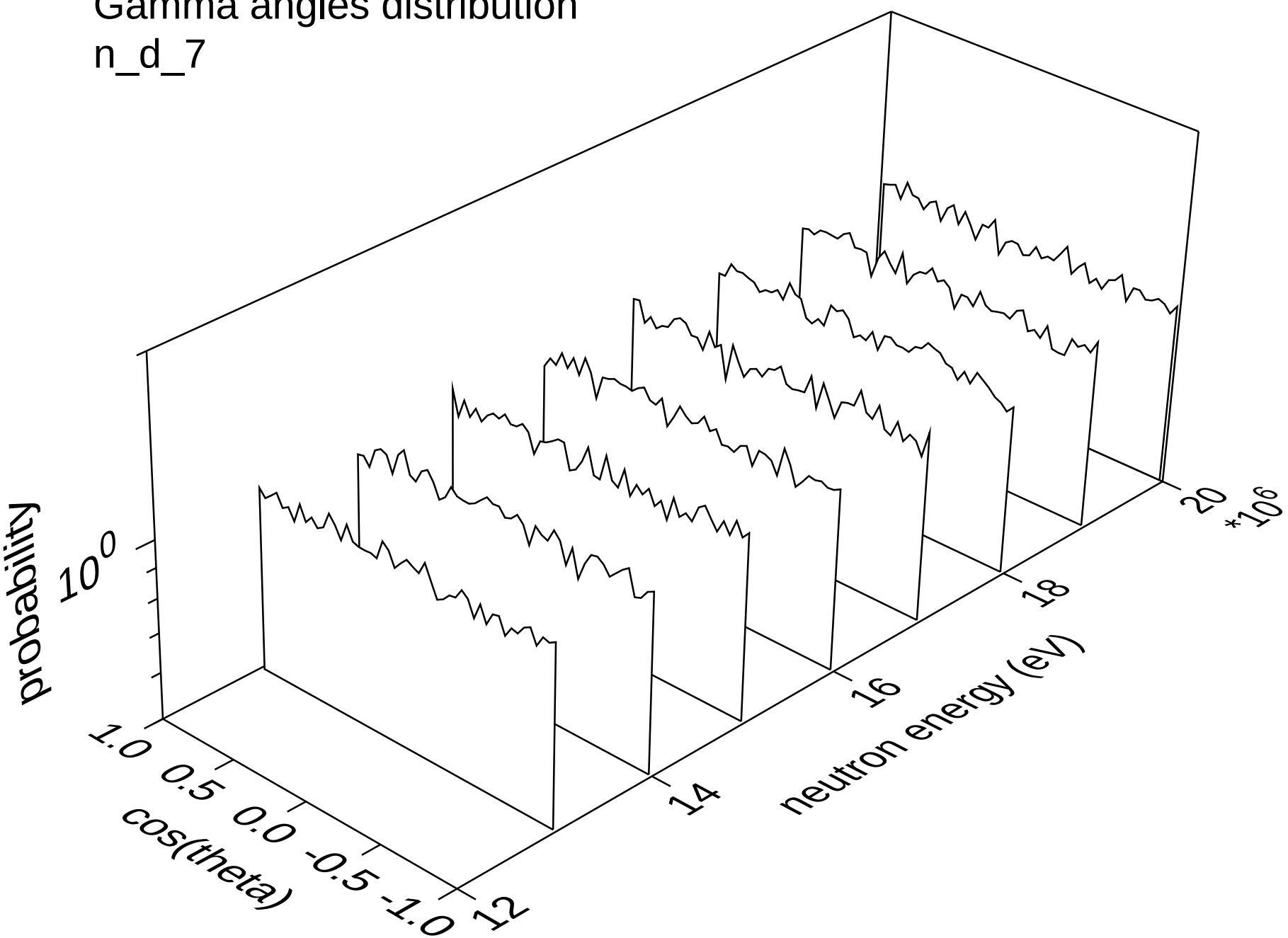

Gamma energy distribution
n_d_6
probability
100
50
0
gamma energy (MeV)
5
10
15
20
12
14
16
18
20
*10^6
neutron energy (eV)


Gamma angles distribution
n_d_6
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)

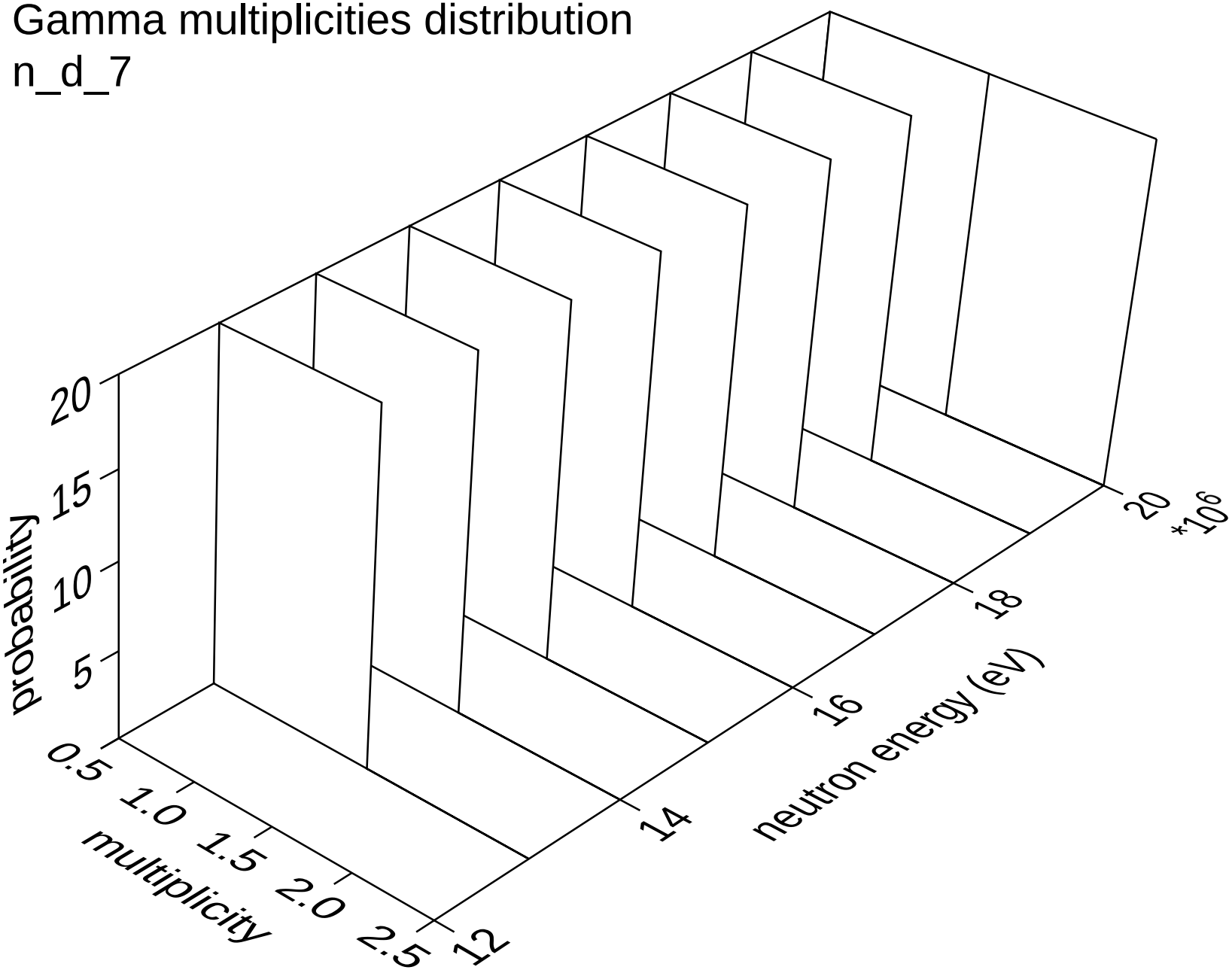
Gamma multiplicities distribution
n_d_6

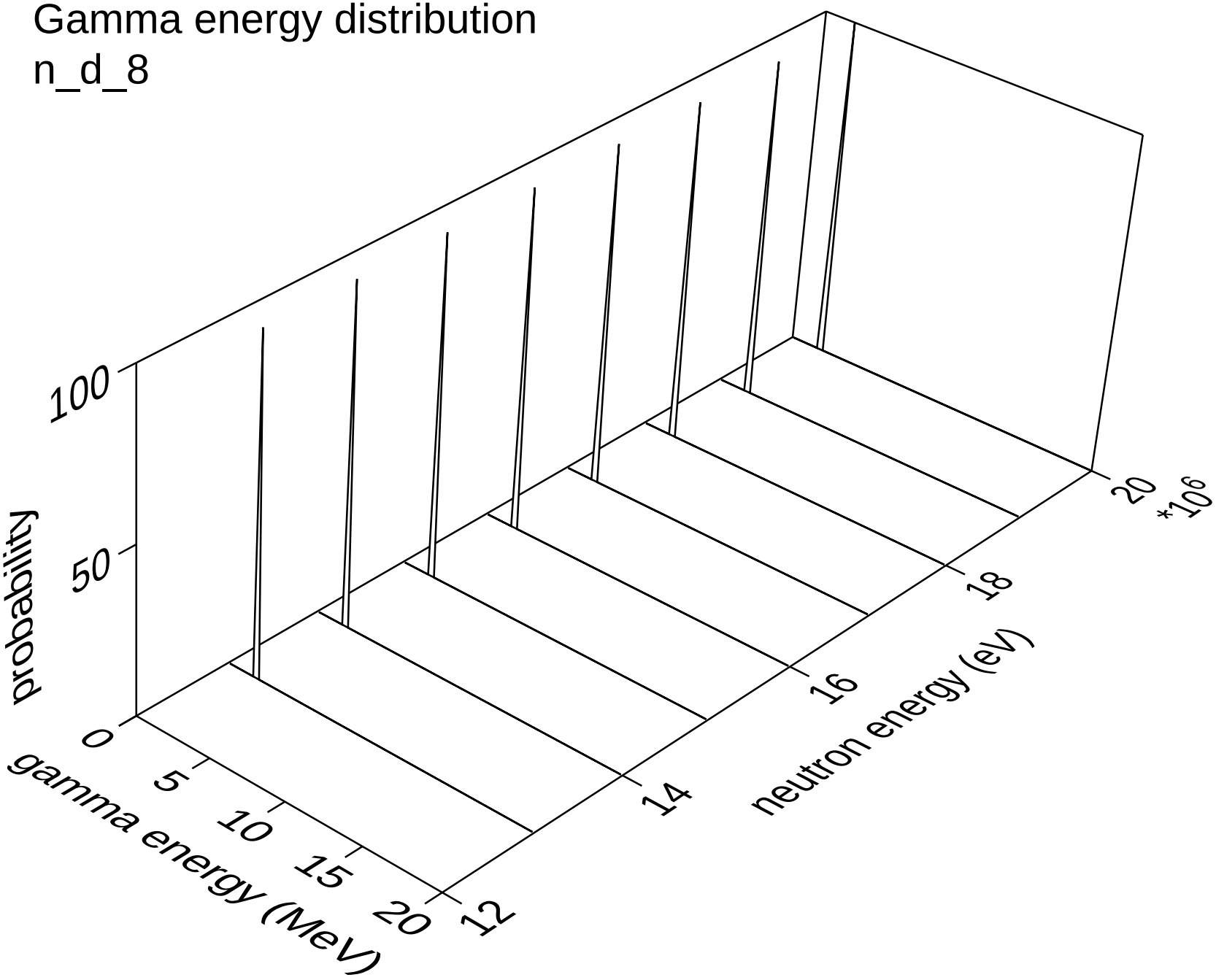


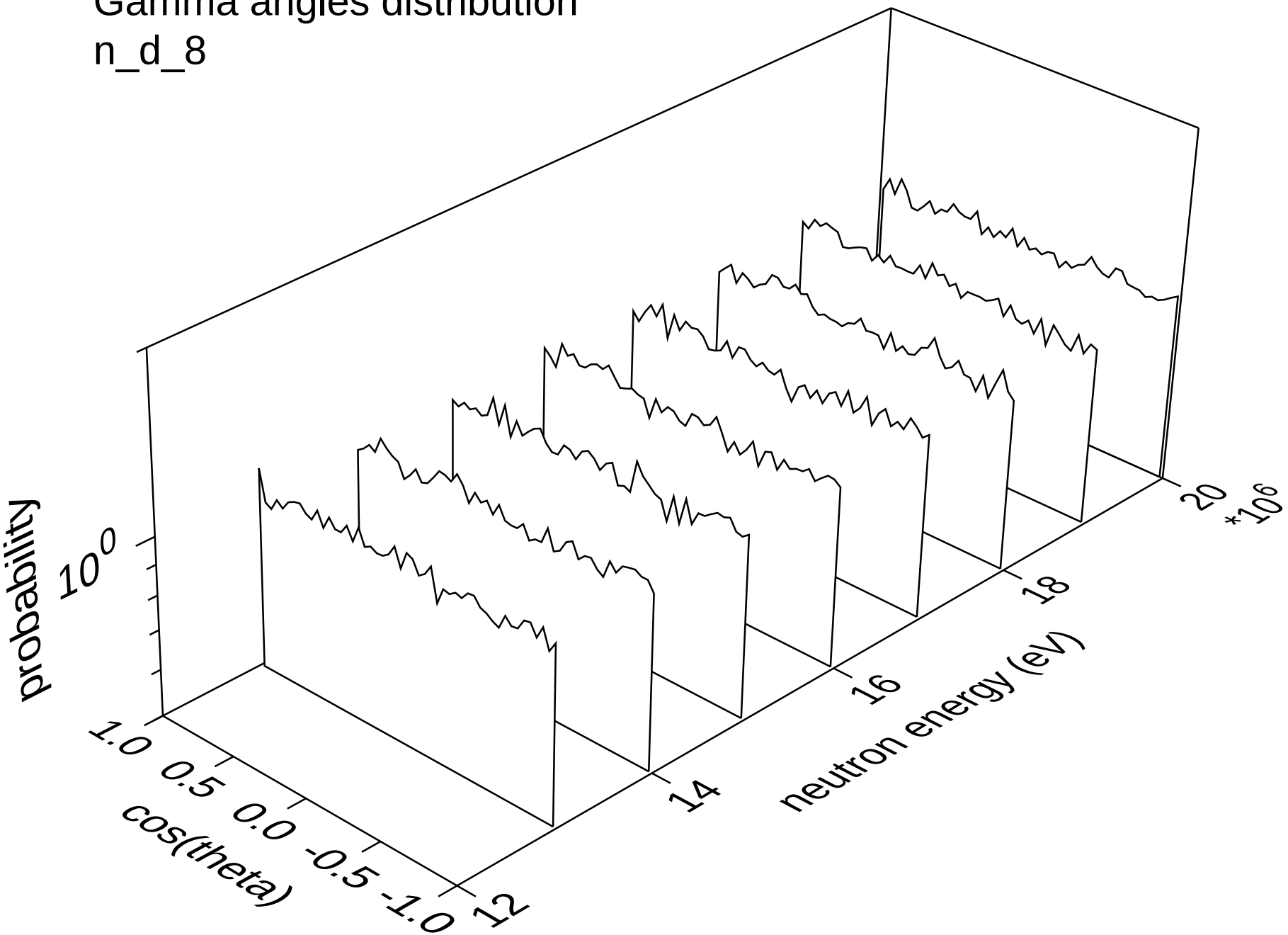

Gamma energy distribution
n_d_7
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
12
14
16
18
20
*10^6


Gamma angles distribution
n_d_7
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)

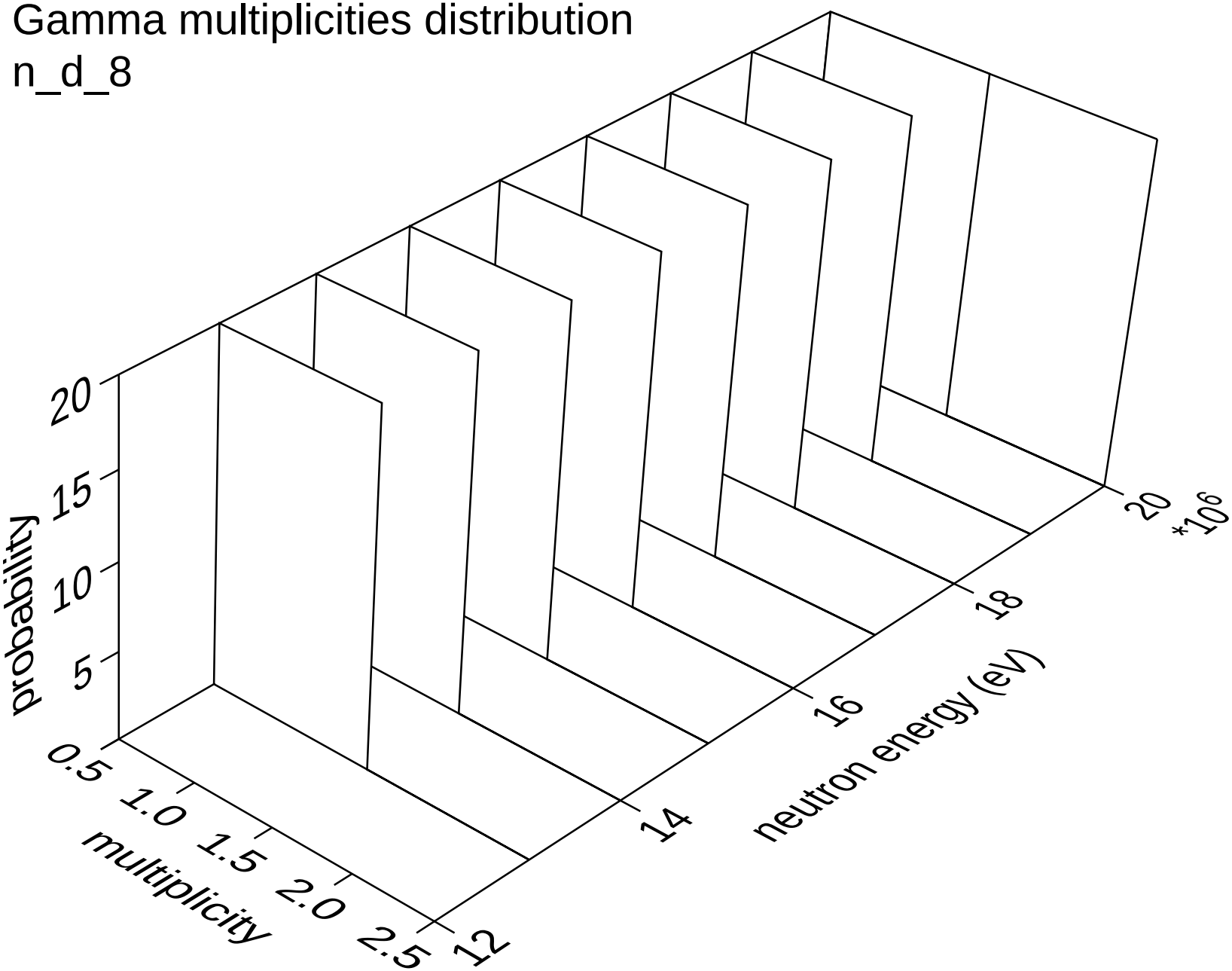
Gamma multiplicities distribution
n_d_7

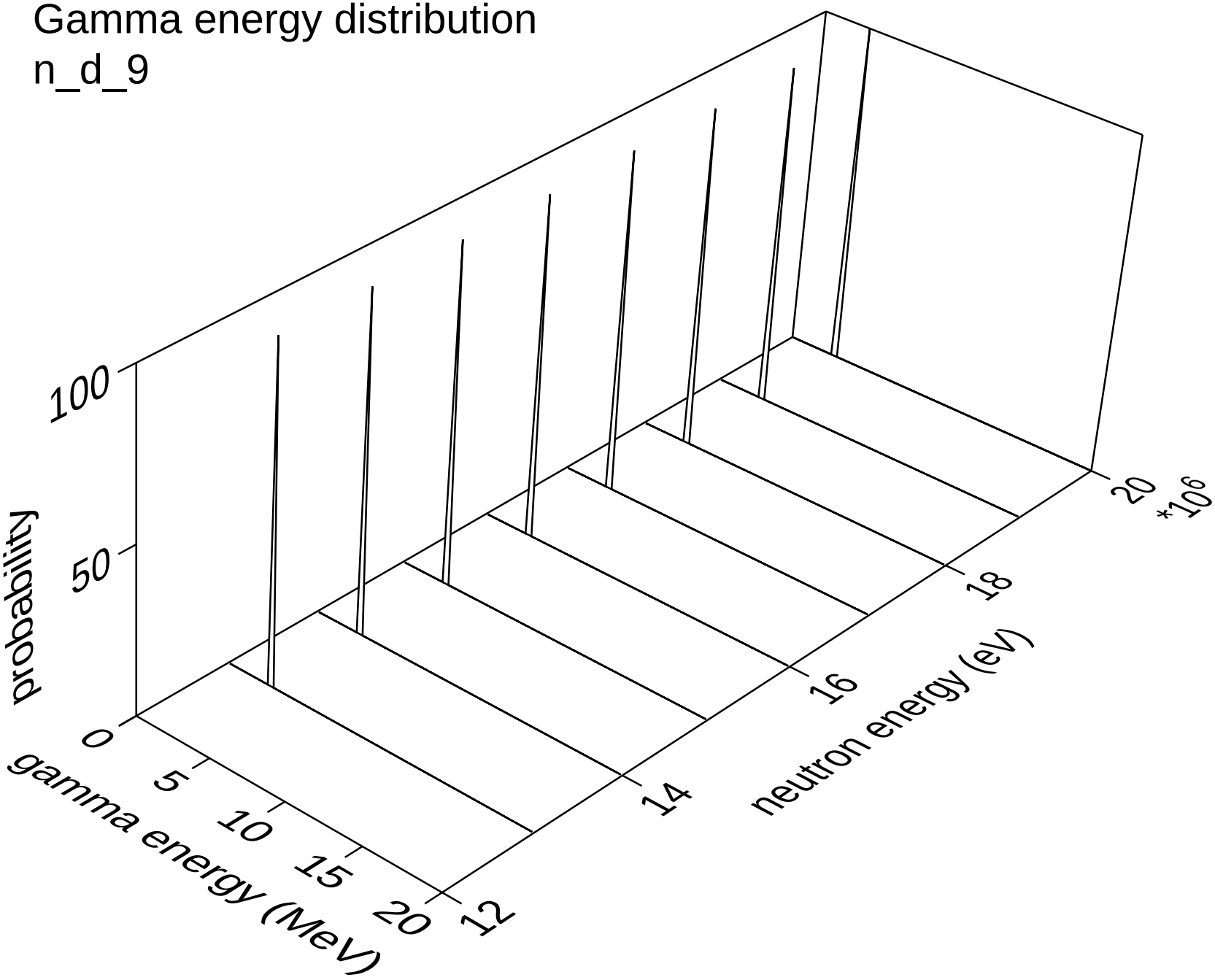


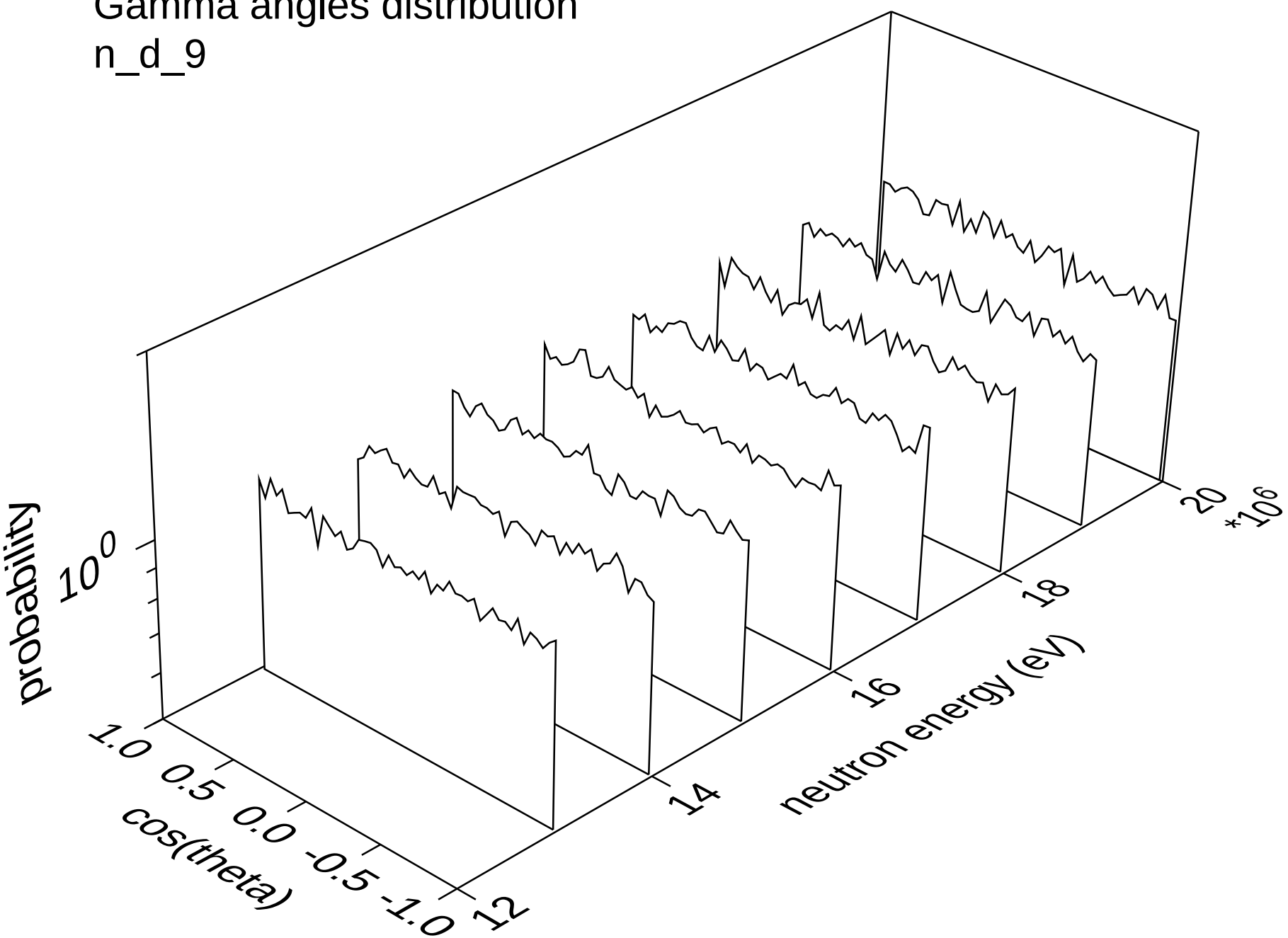

Gamma energy distribution
n_d_8
probability
100
50
0
gamma energy (MeV)
5
10
15
20
12
14
16
18
20
*10^6
neutron energy (eV)


Gamma angles distribution
n_d_8
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)

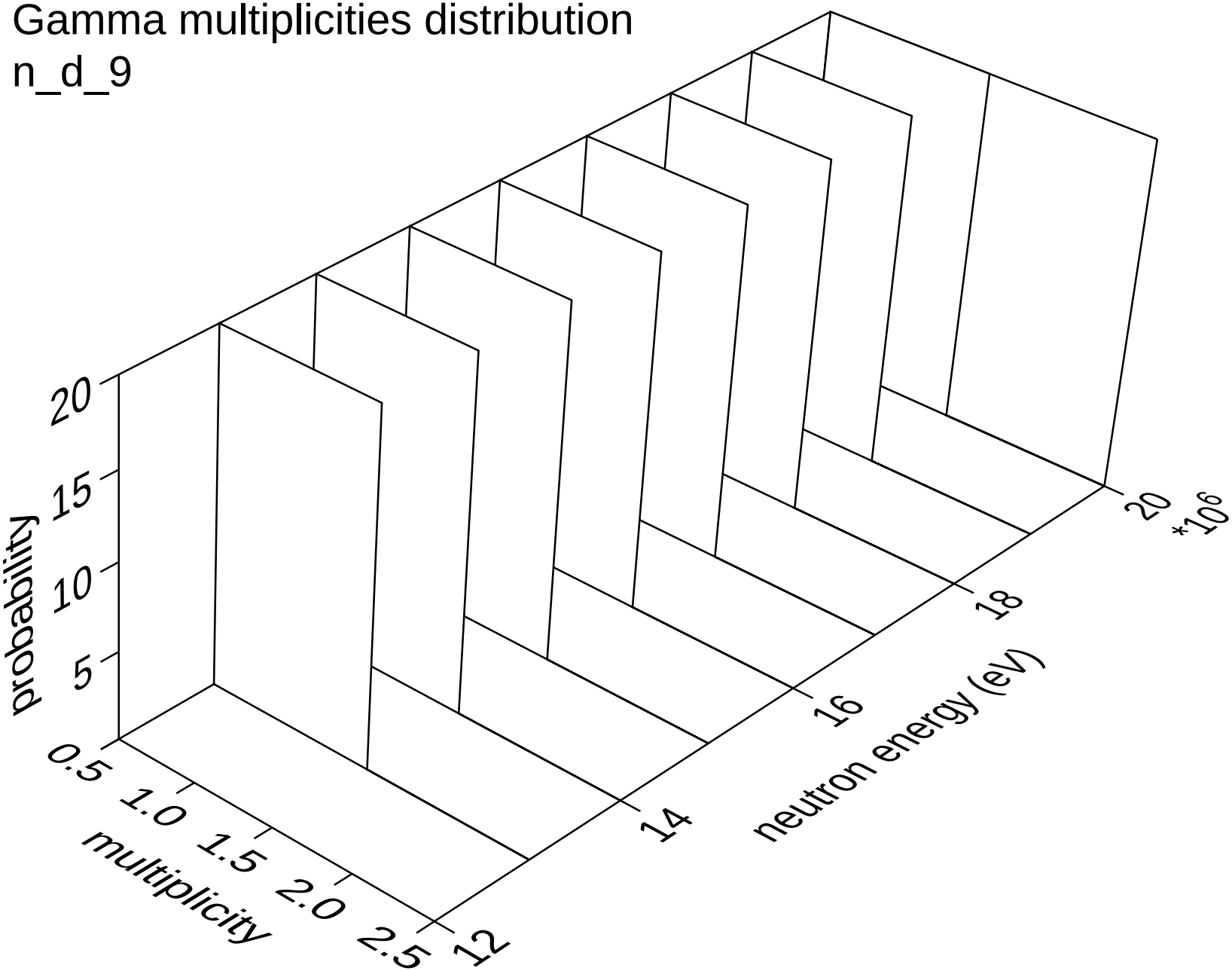
Gamma multiplicities distribution
n_d_8

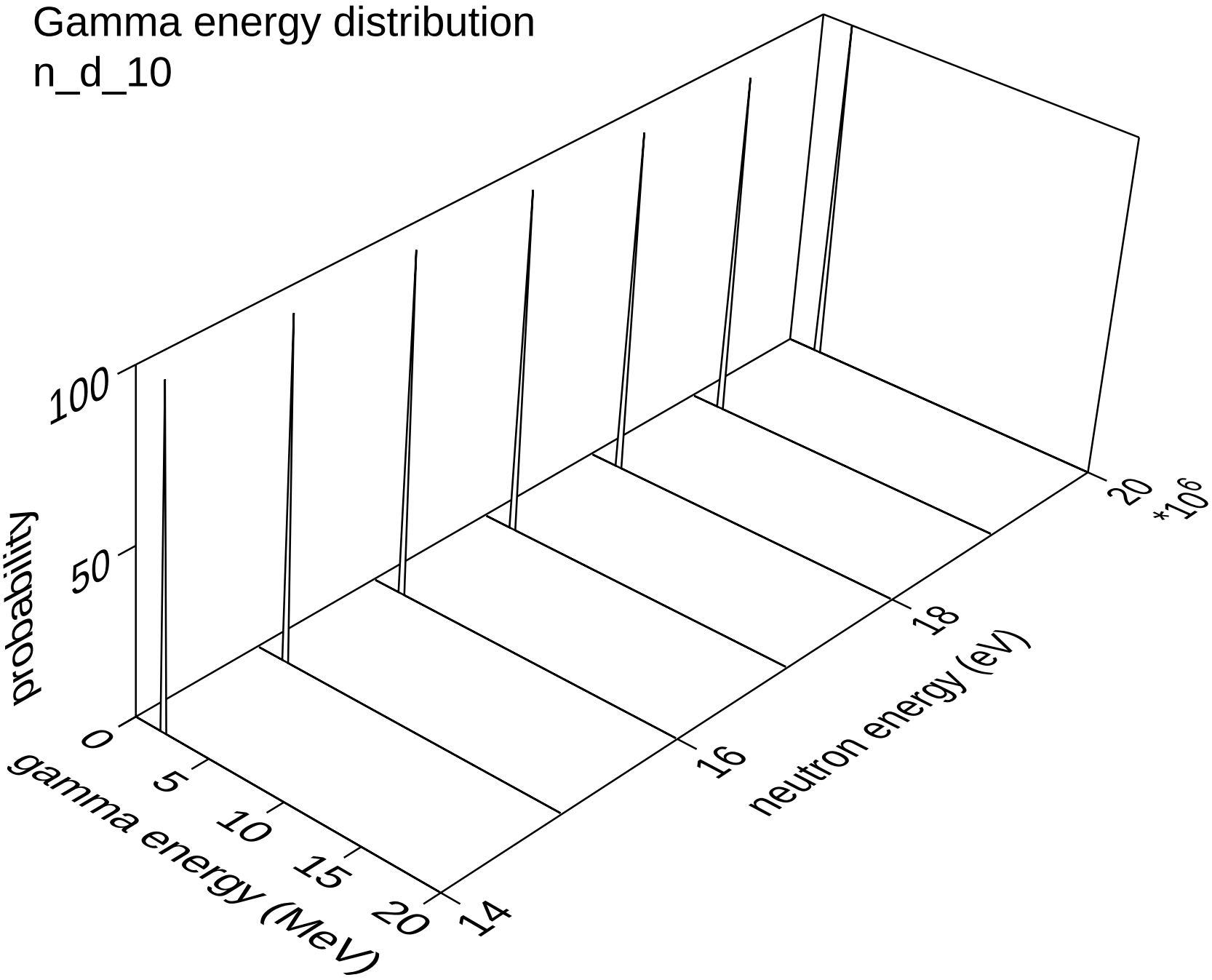


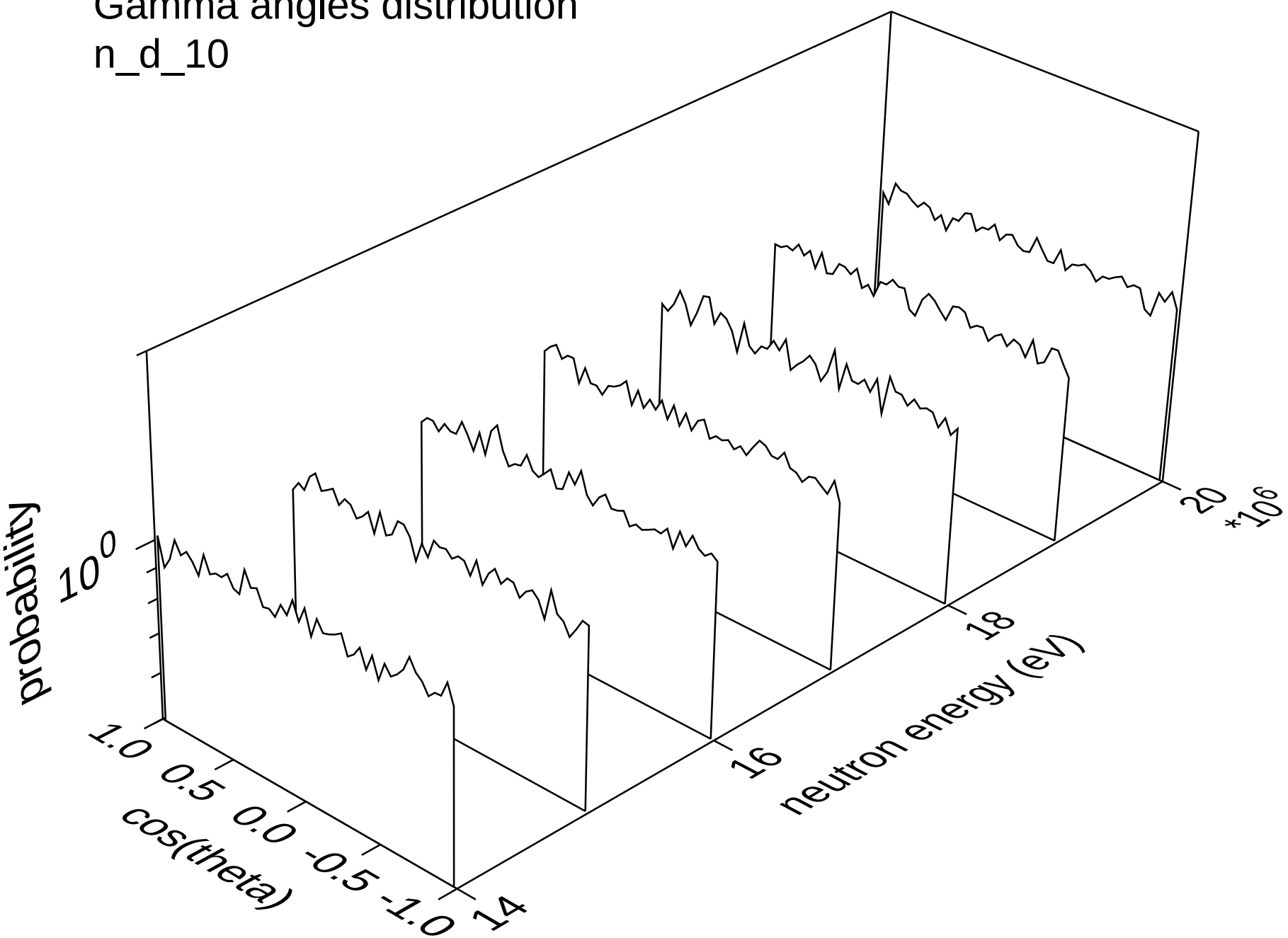

Gamma energy distribution
n_d_9
probability
100
50
0
gamma energy (MeV)
5
10
15
20
12
14
16
18
20
*10^6
neutron energy (eV)


Gamma angles distribution
n_d_9
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)

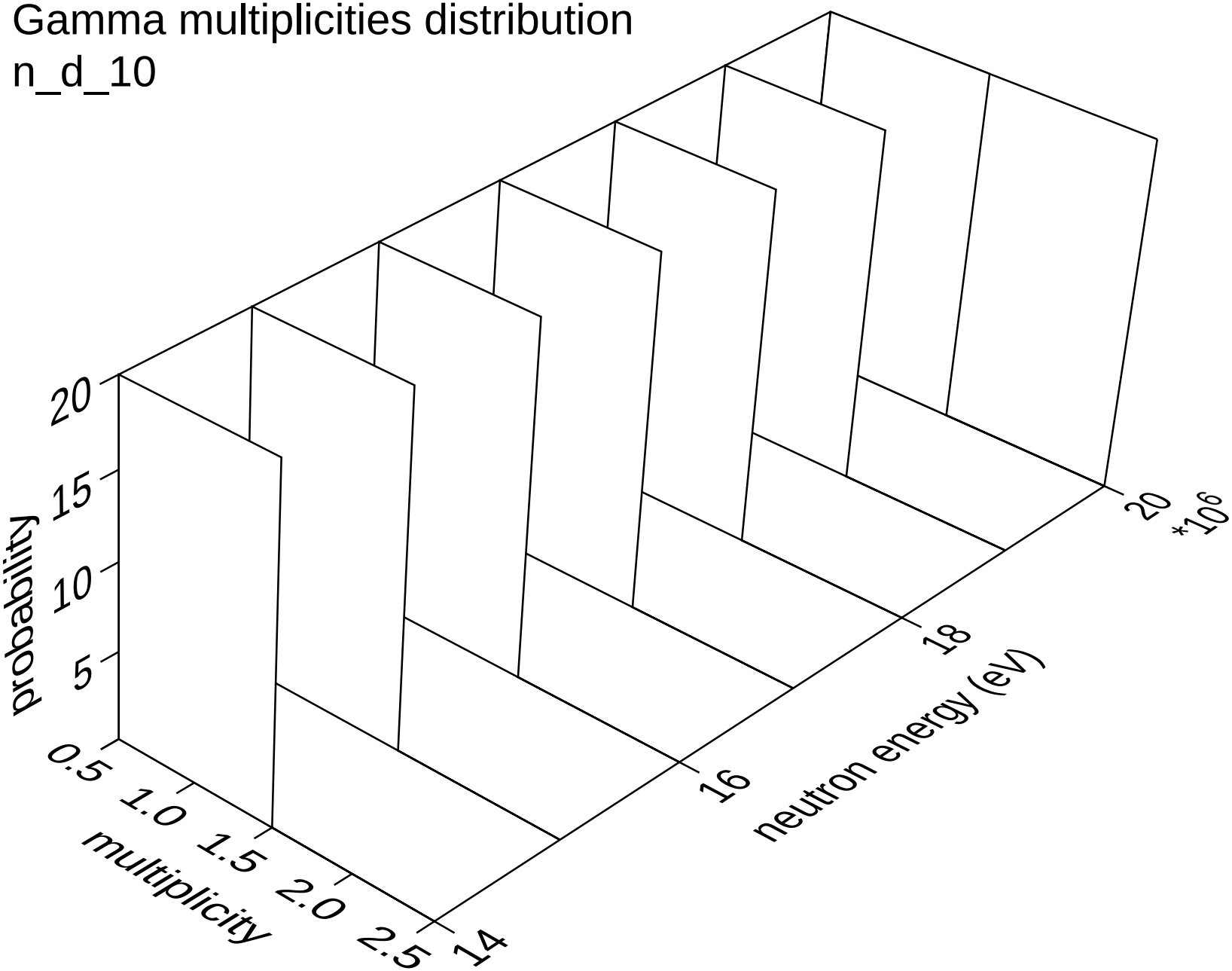
Gamma multiplicities distribution
n_d_9

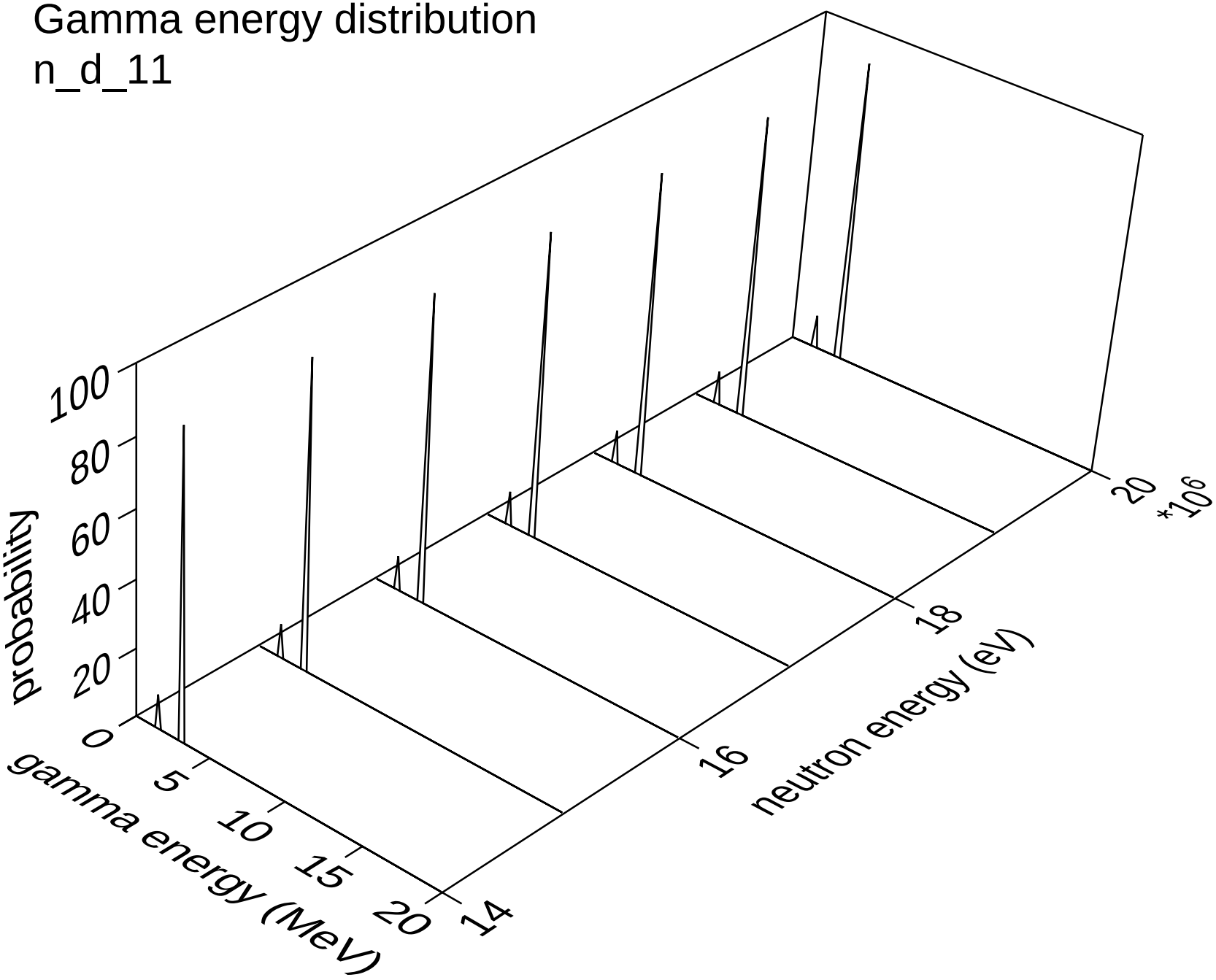


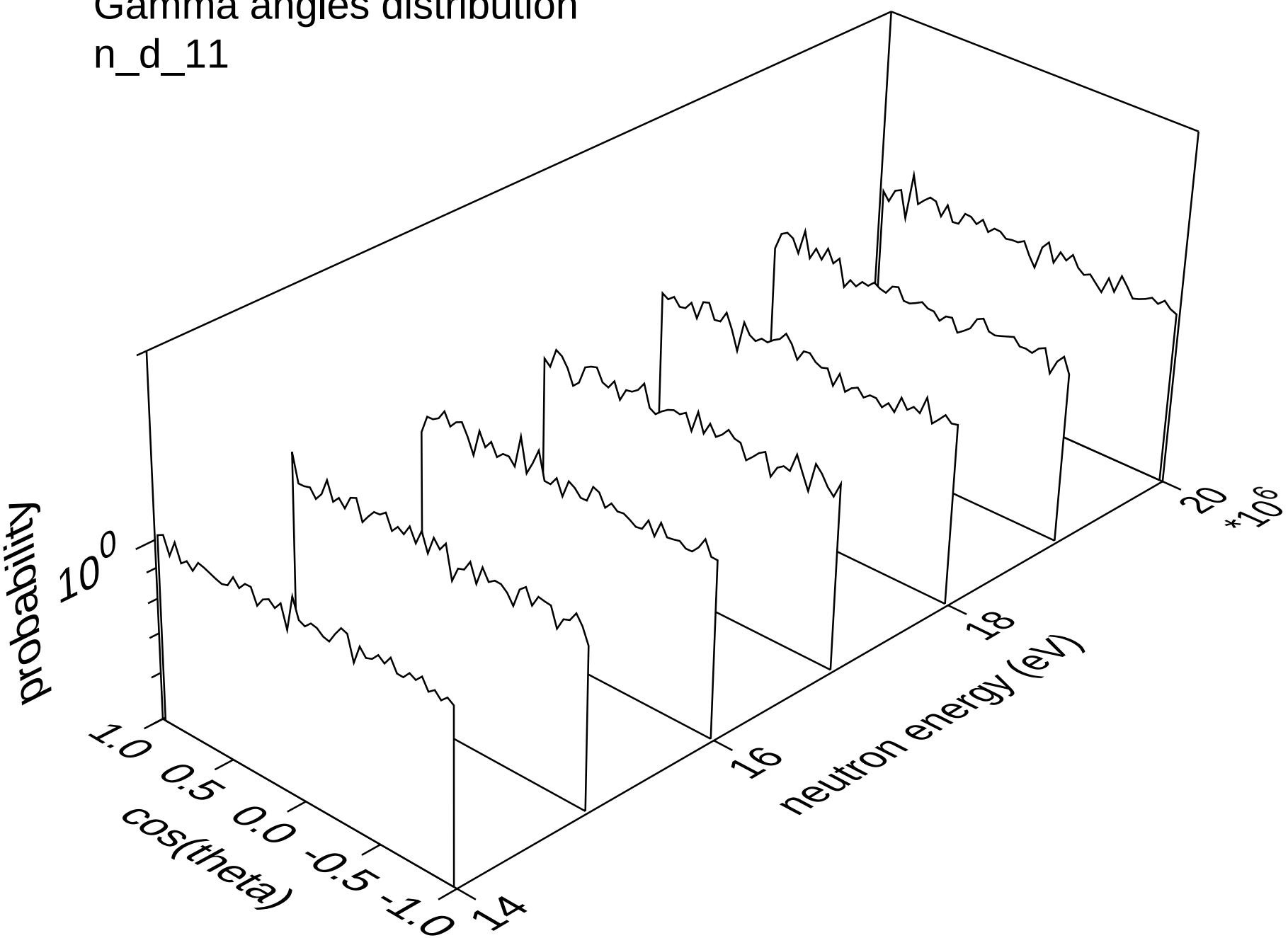

Gamma energy distribution
n_d_10
probability
100
50
0
gamma energy (MeV)
5
10
15
20
14
16
18
20
*10^6
neutron energy (eV)


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

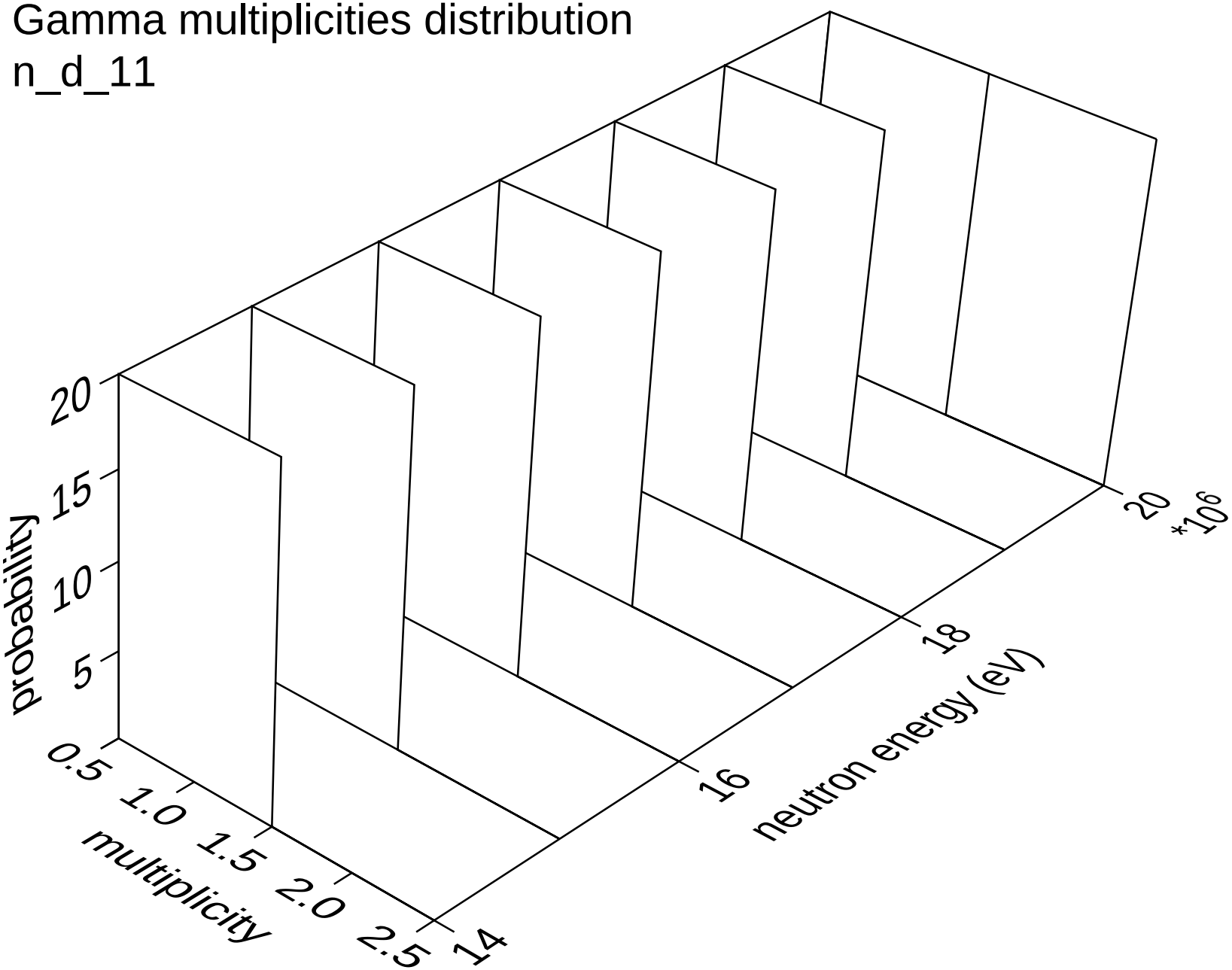
Gamma multiplicities distribution
n_d_10

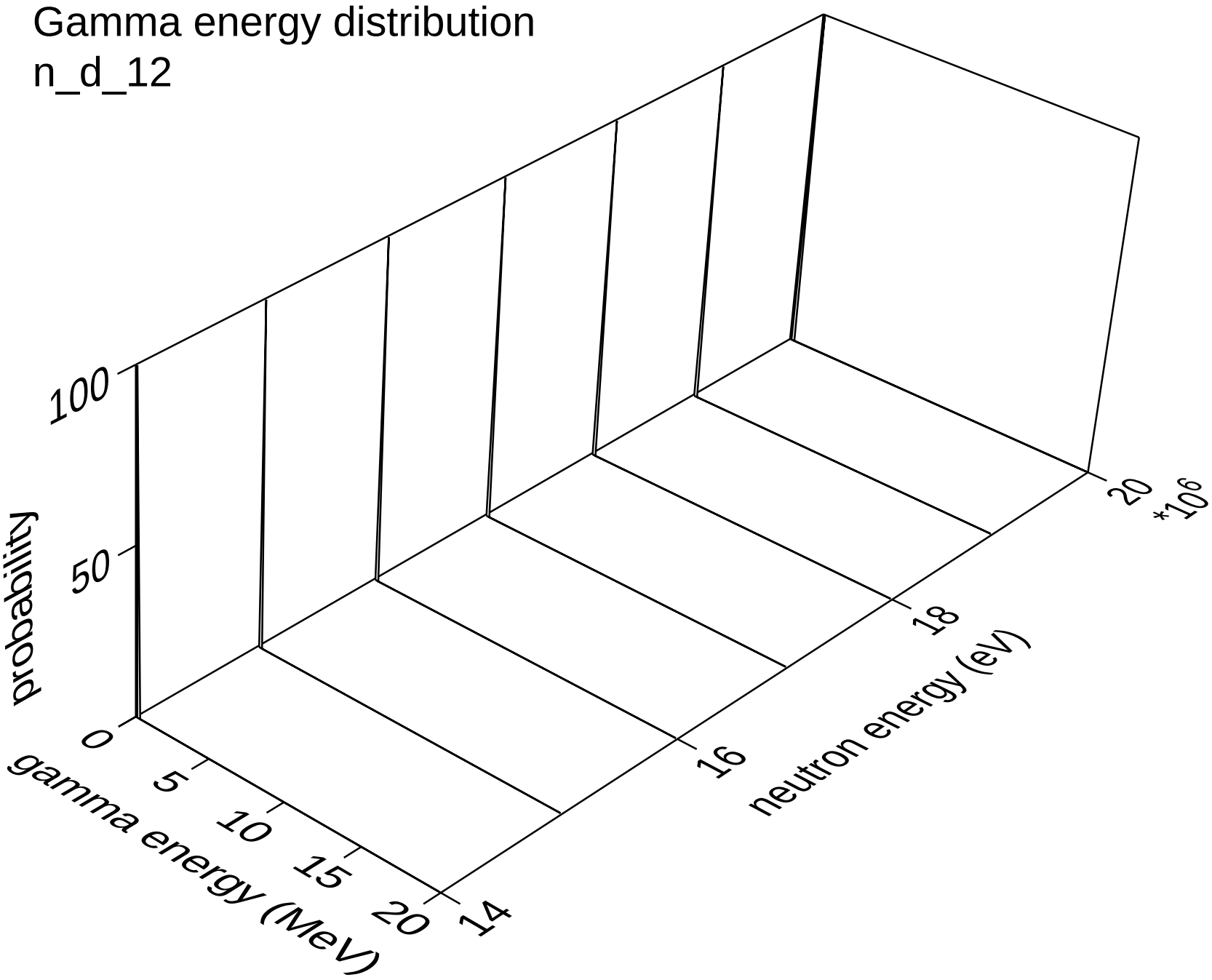


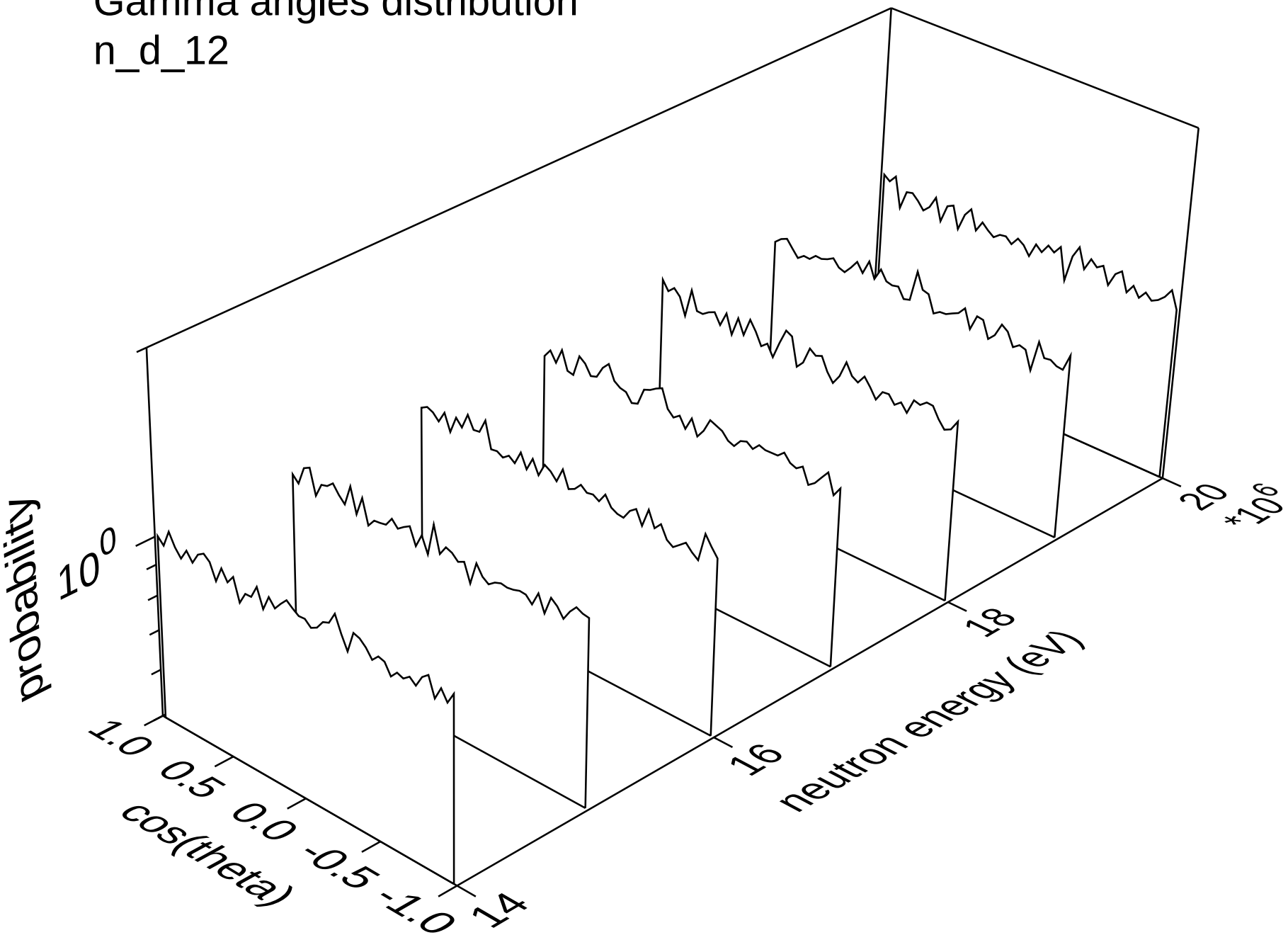

Gamma energy distribution
n_d_11
probability
100
80
60
40
20
0
gamma energy (MeV)
5
10
15
20
14
16
18
20
*10^6
neutron energy (eV)


Gamma angles distribution
n_d_11
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
14
16
18
20
*10^6
neutron energy (eV)

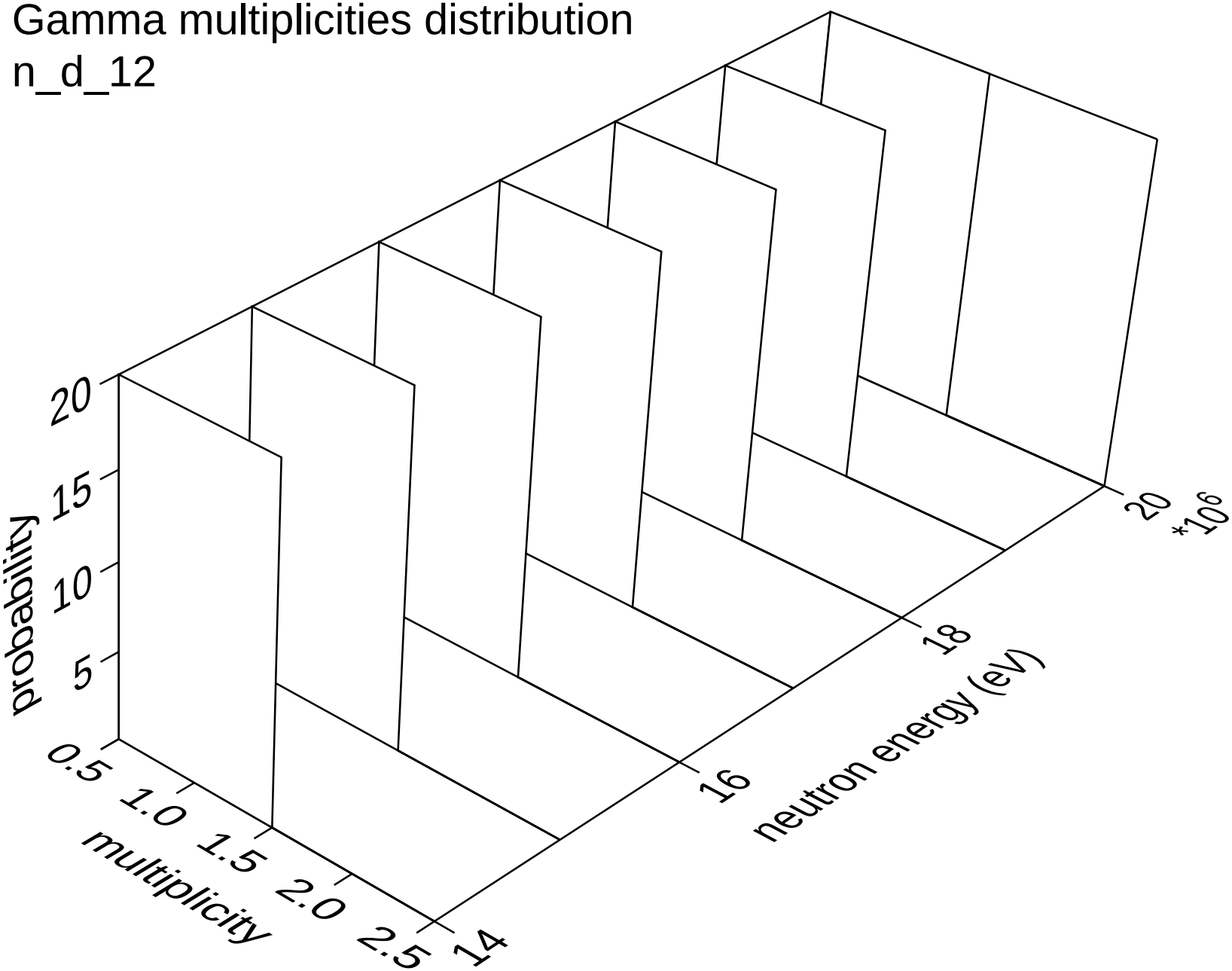
Gamma multiplicities distribution
n_d_11

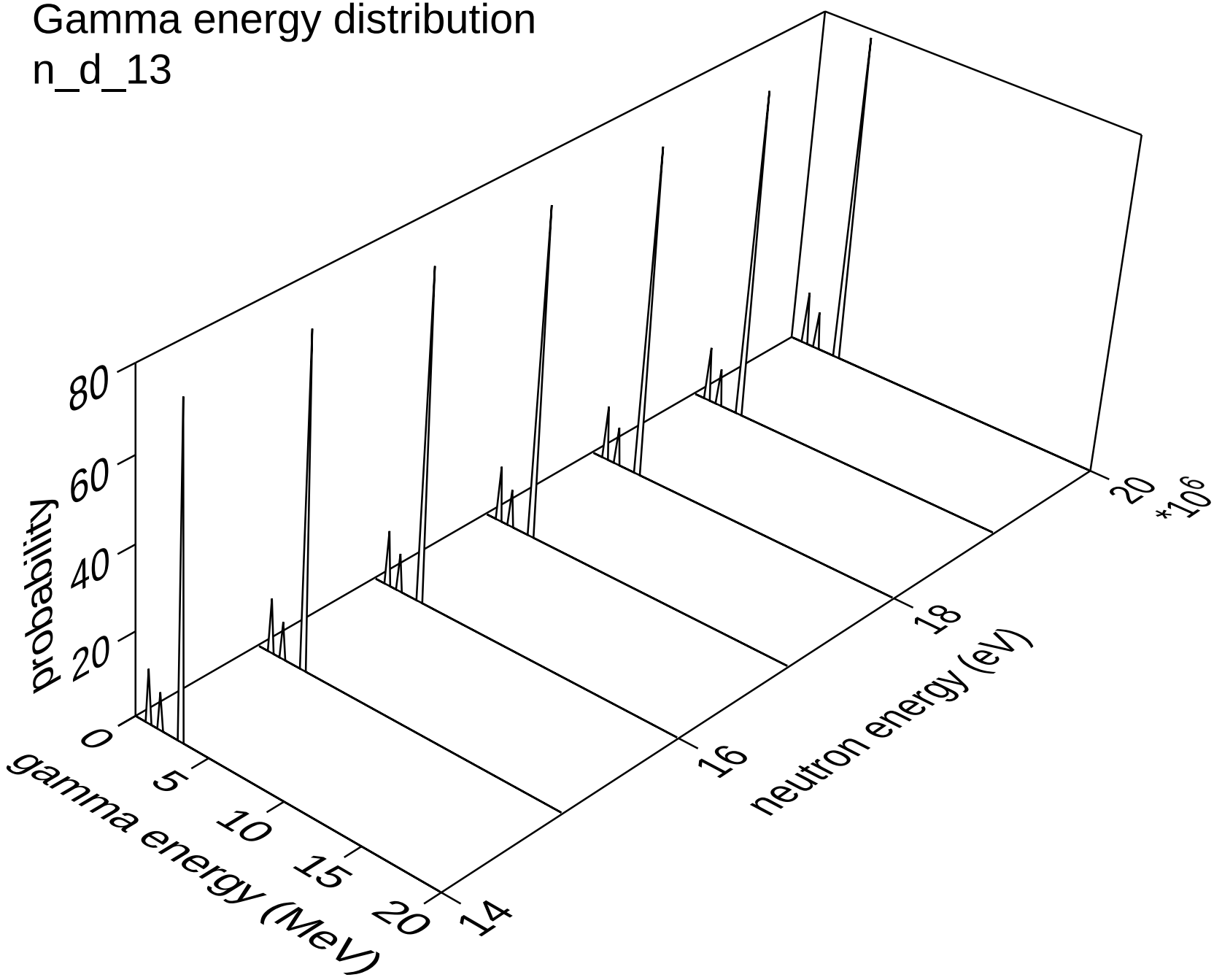


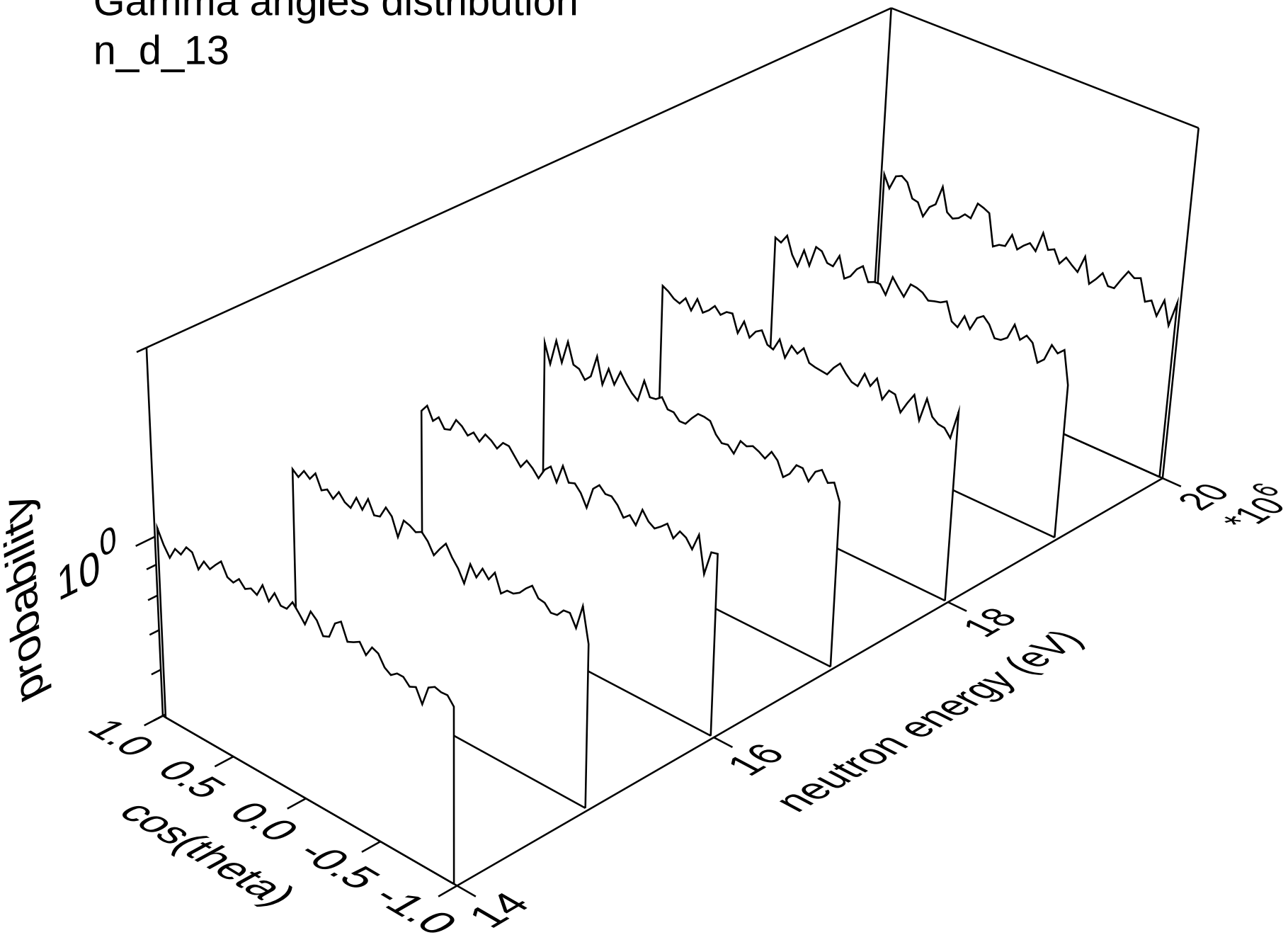

Gamma energy distribution
n_d_12
probability
100
50
0
gamma energy (MeV)
5
10
15
20
14
16
18
20
*10^6
neutron energy (eV)


Gamma angles distribution
n_d_12
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
14
16
18
20
*10^6
neutron energy (eV)

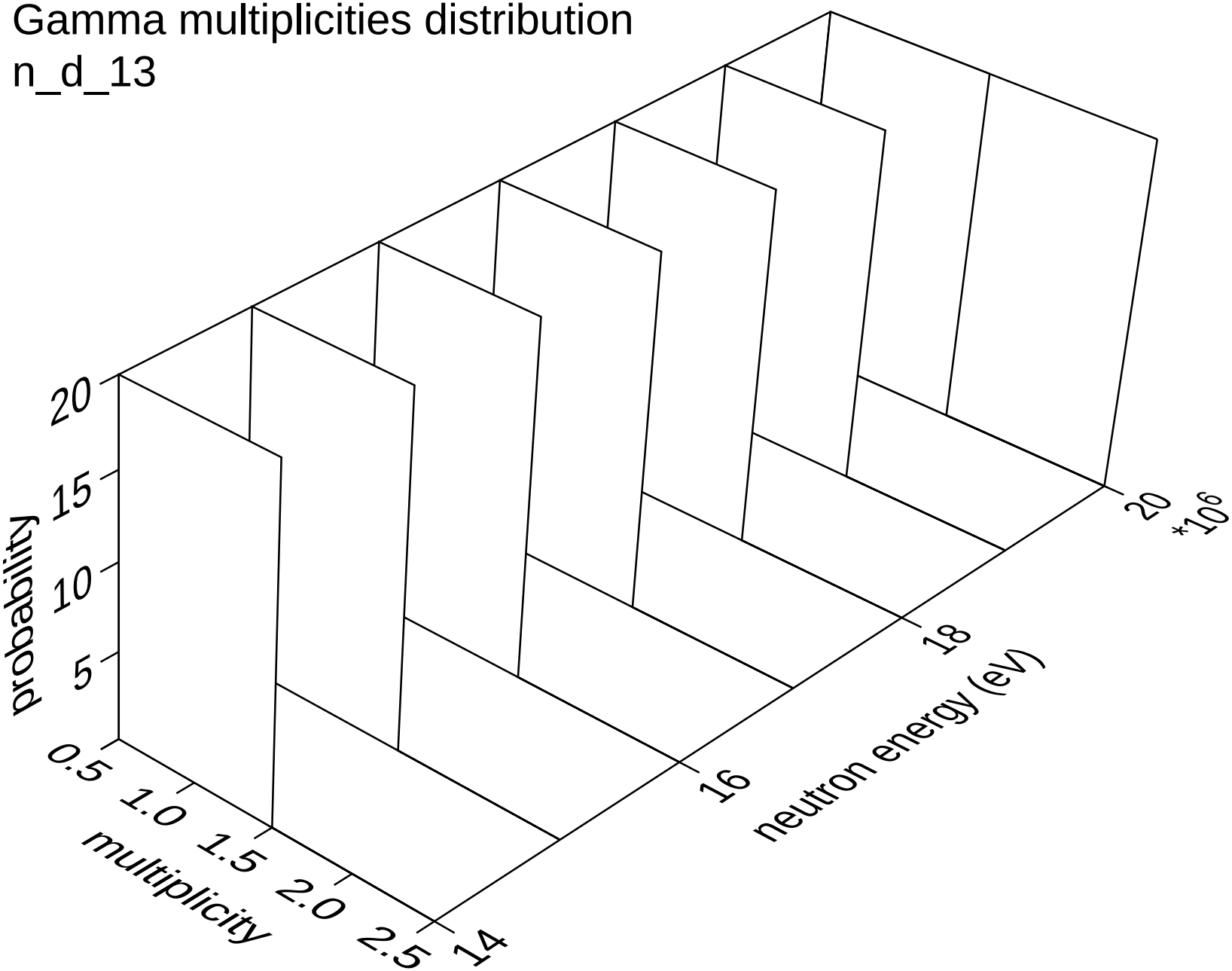
Gamma multiplicities distribution
n_d_12

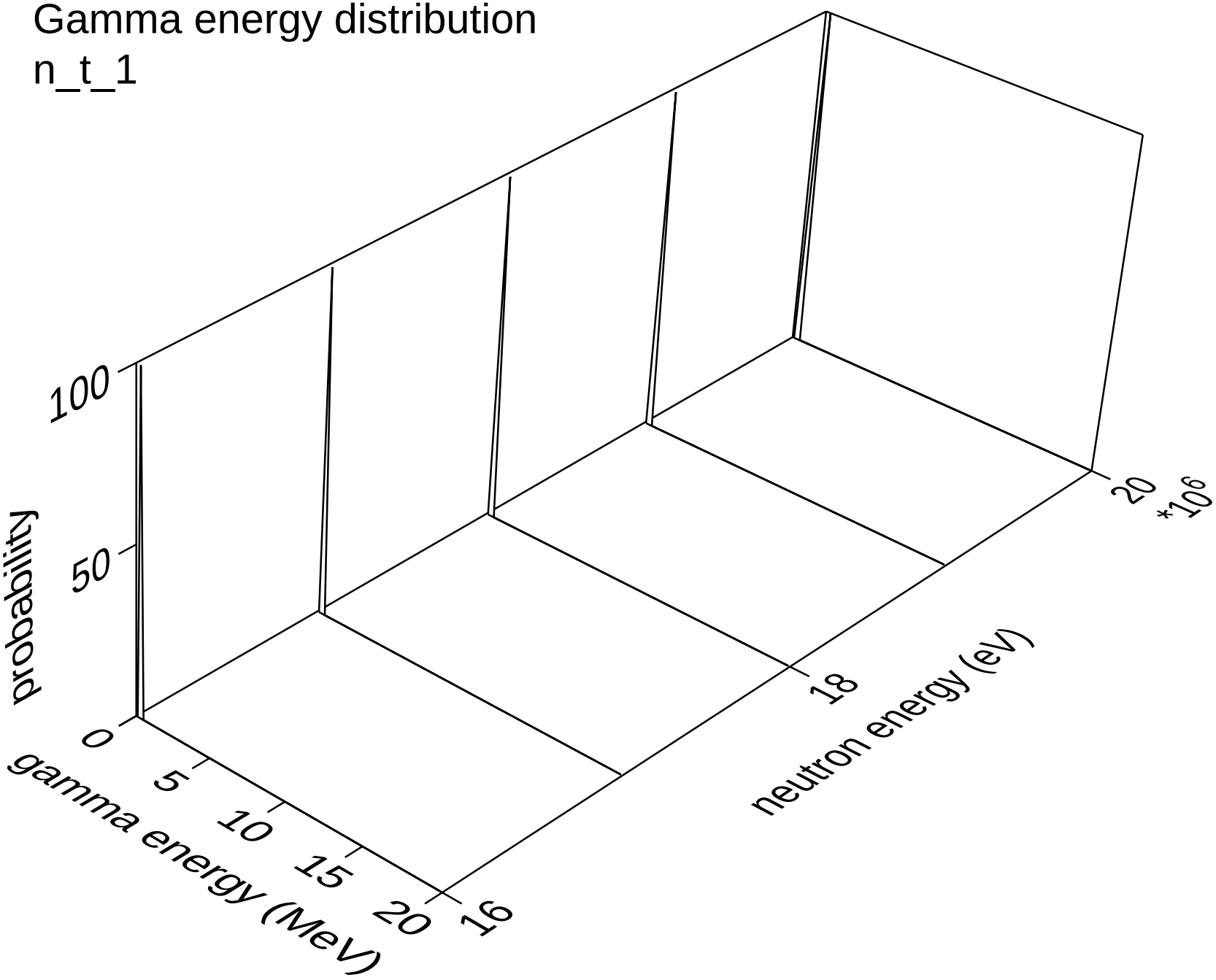


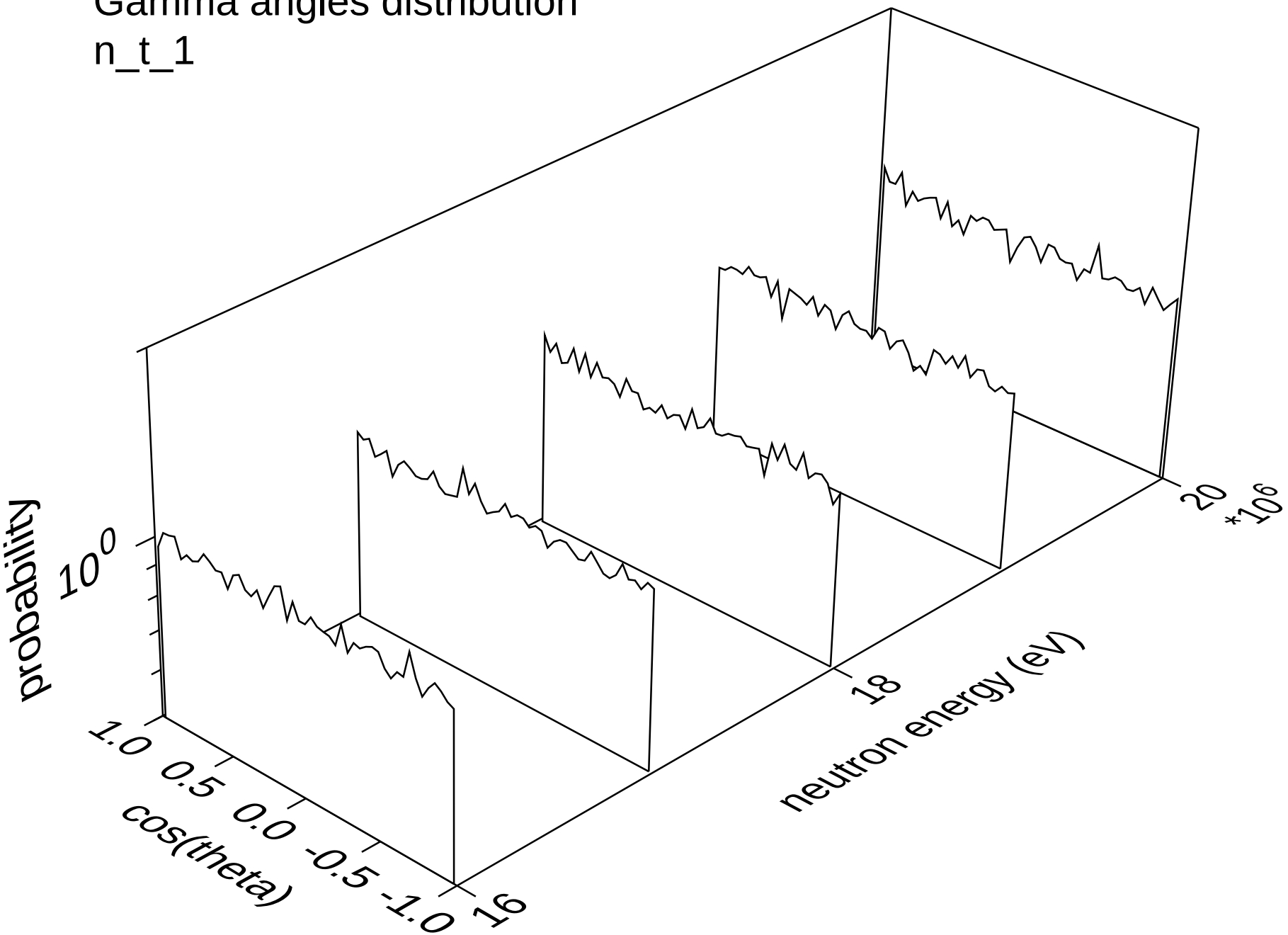

Gamma energy distribution
n_d_13
probability
0
20
40
60
80
gamma energy (MeV)
5
10
15
20
14
16
18
neutron energy (eV)
20
*10^6

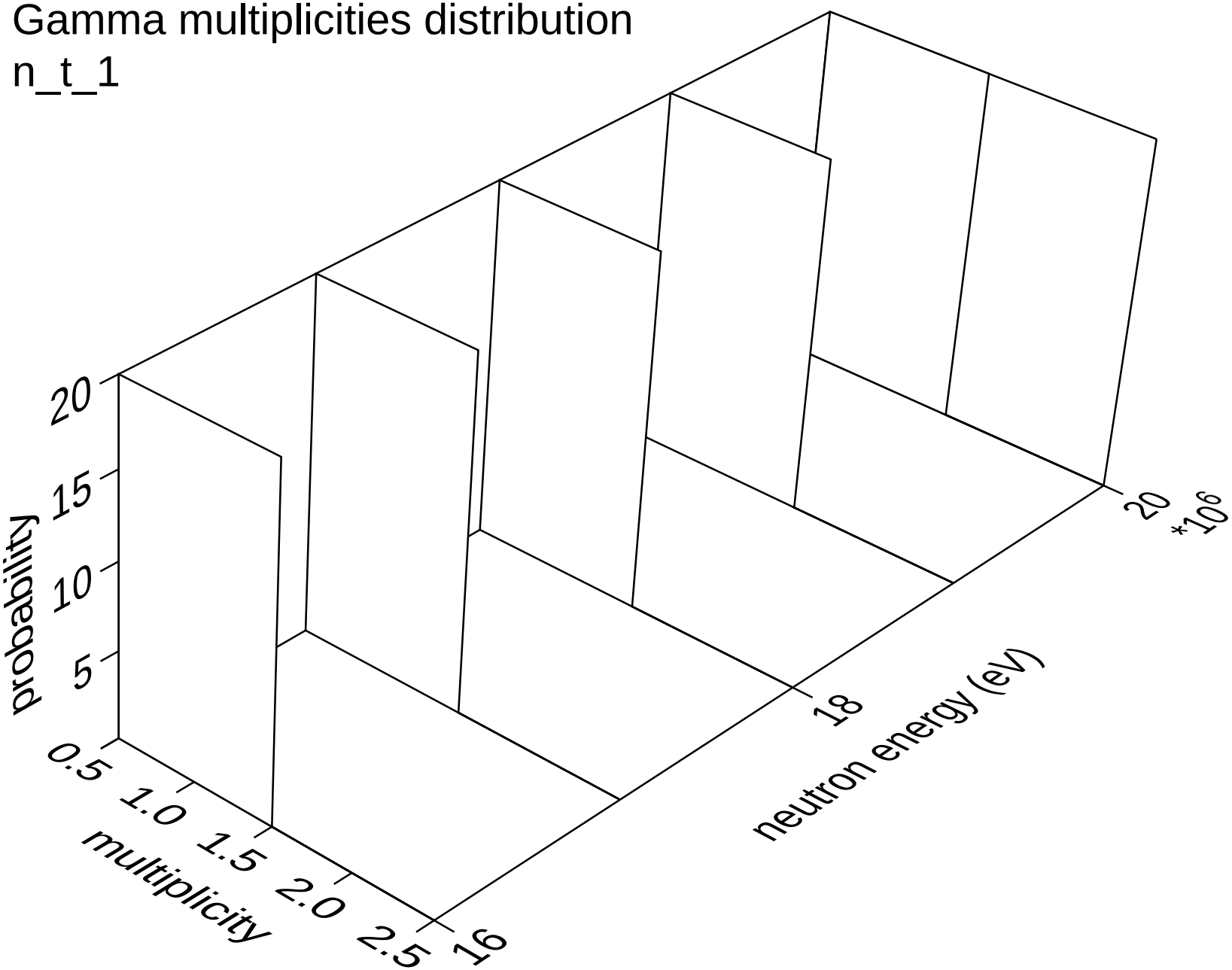

Gamma angles distribution
n_d_13
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
14
16
18
20
*10^6
neutron energy (eV)

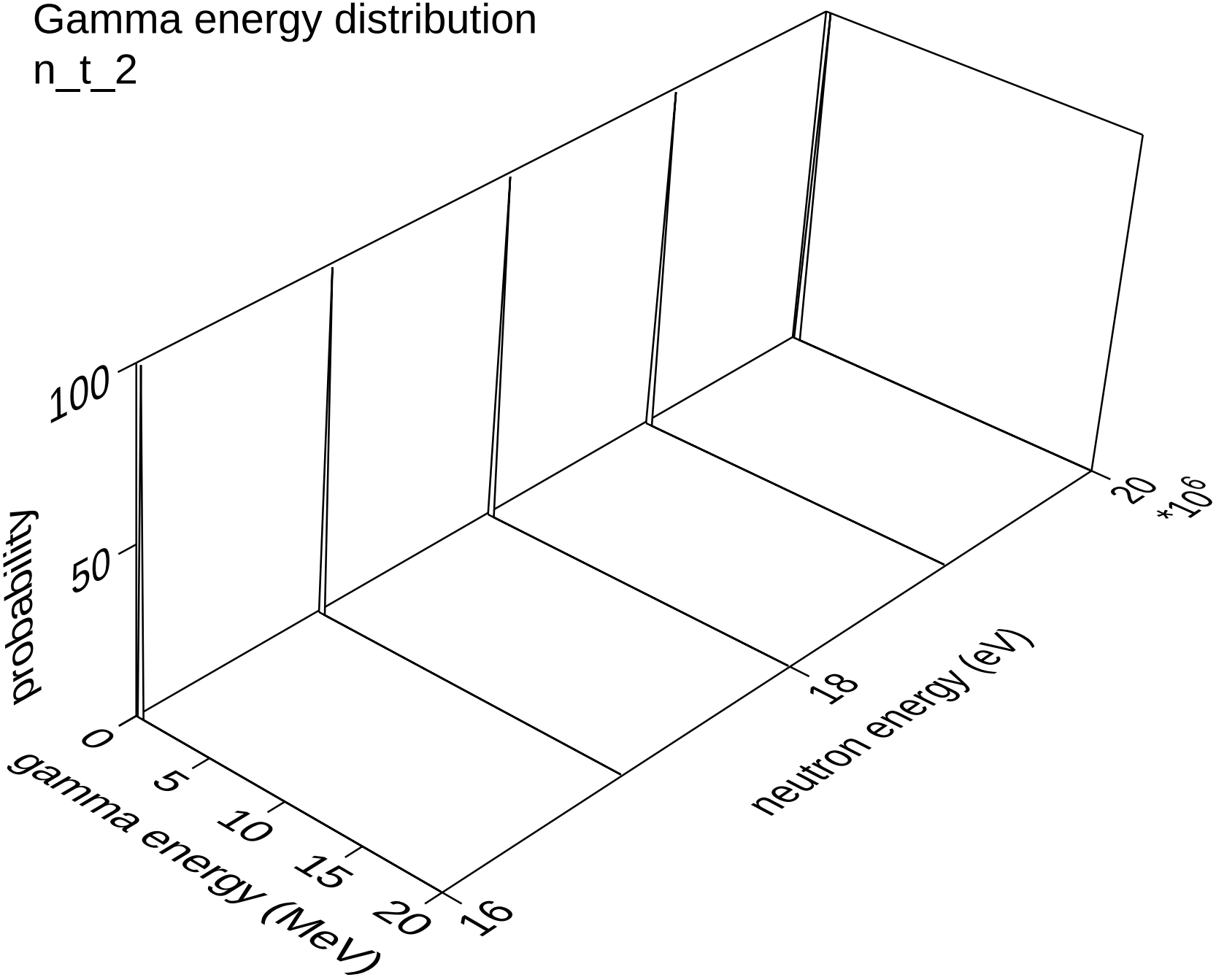
Gamma multiplicities distribution
n_d_13

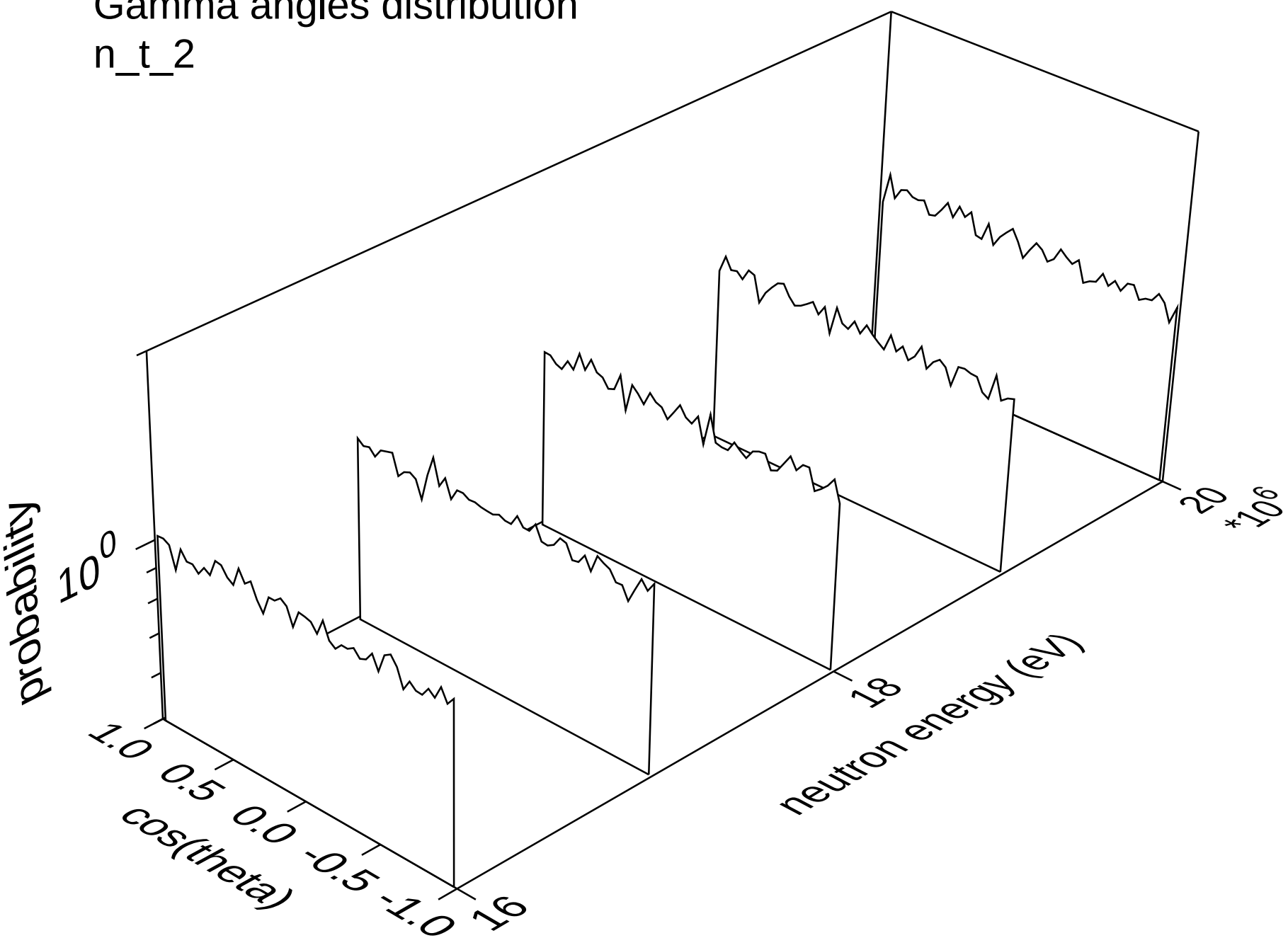



Gamma energy distribution
n_t_1
probability
100
50
0
gamma energy (MeV)
5
10
15
20
16
neutron energy (eV)
18
20
*10^6

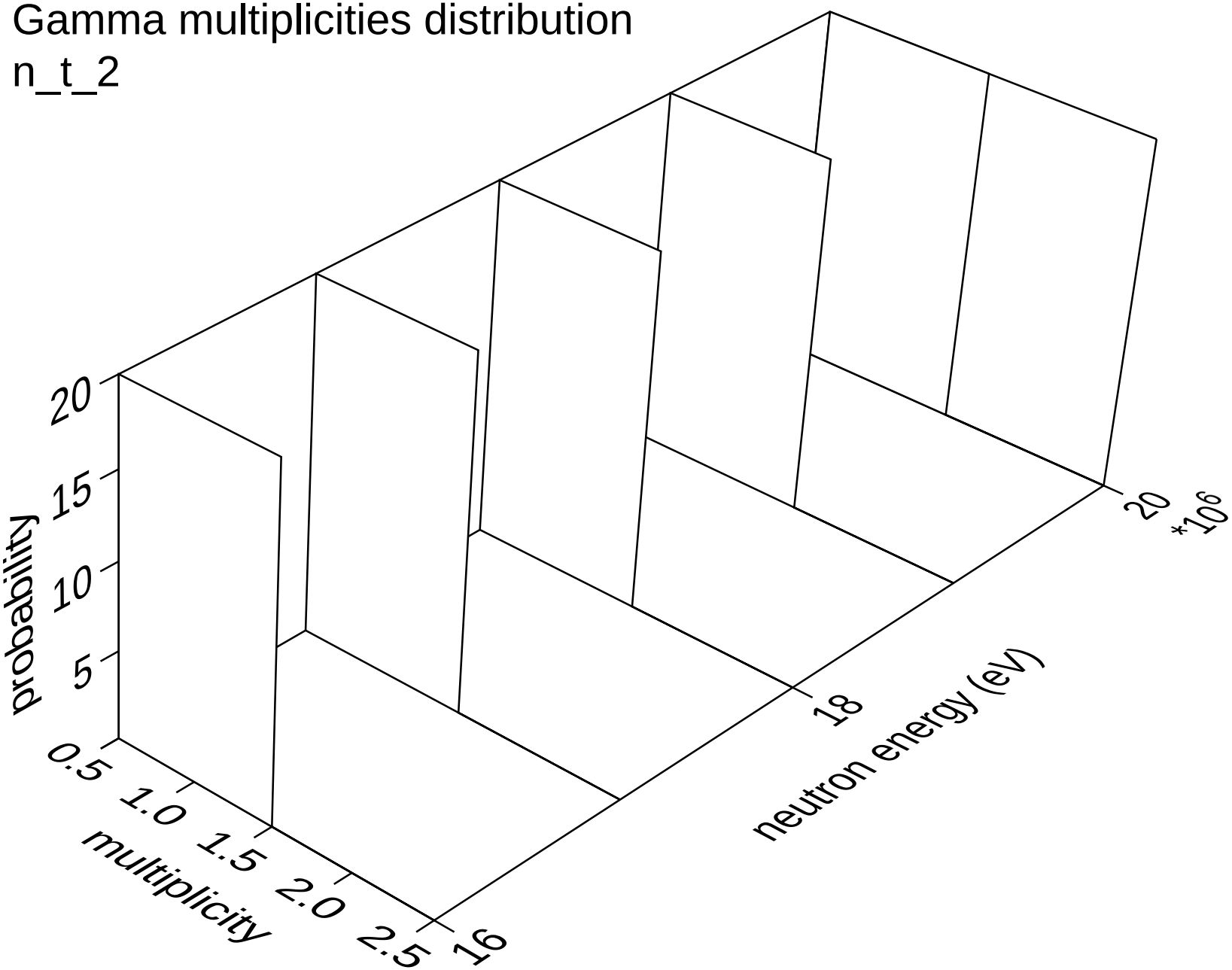

Gamma angles distribution
n_t_1
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

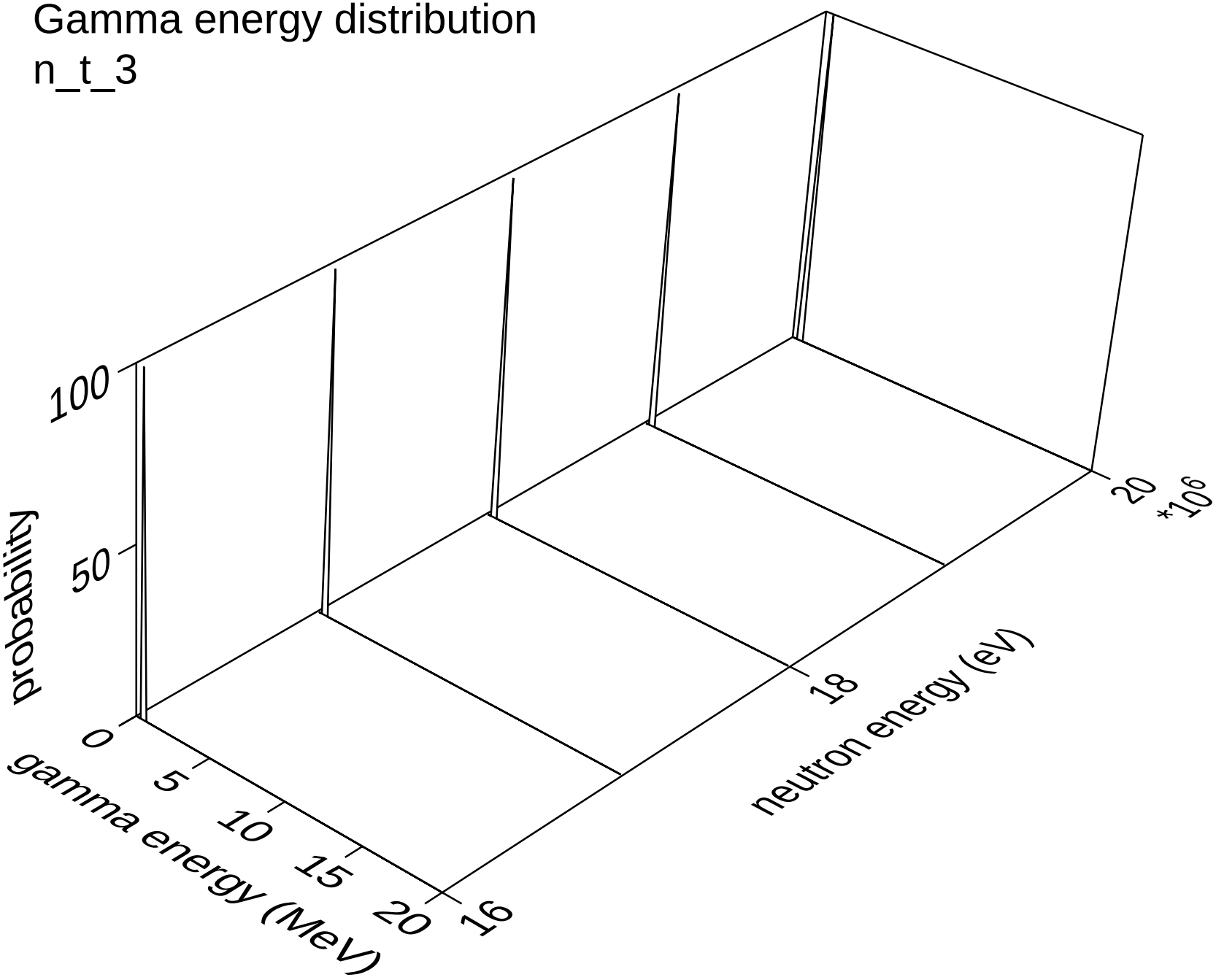

Gamma multiplicities distribution
n_t_1
probability
20
15
10
5
0.5
1.0
1.5
2.0
2.5
multiplicity
16
18
20
*10^6
neutron energy (eV)

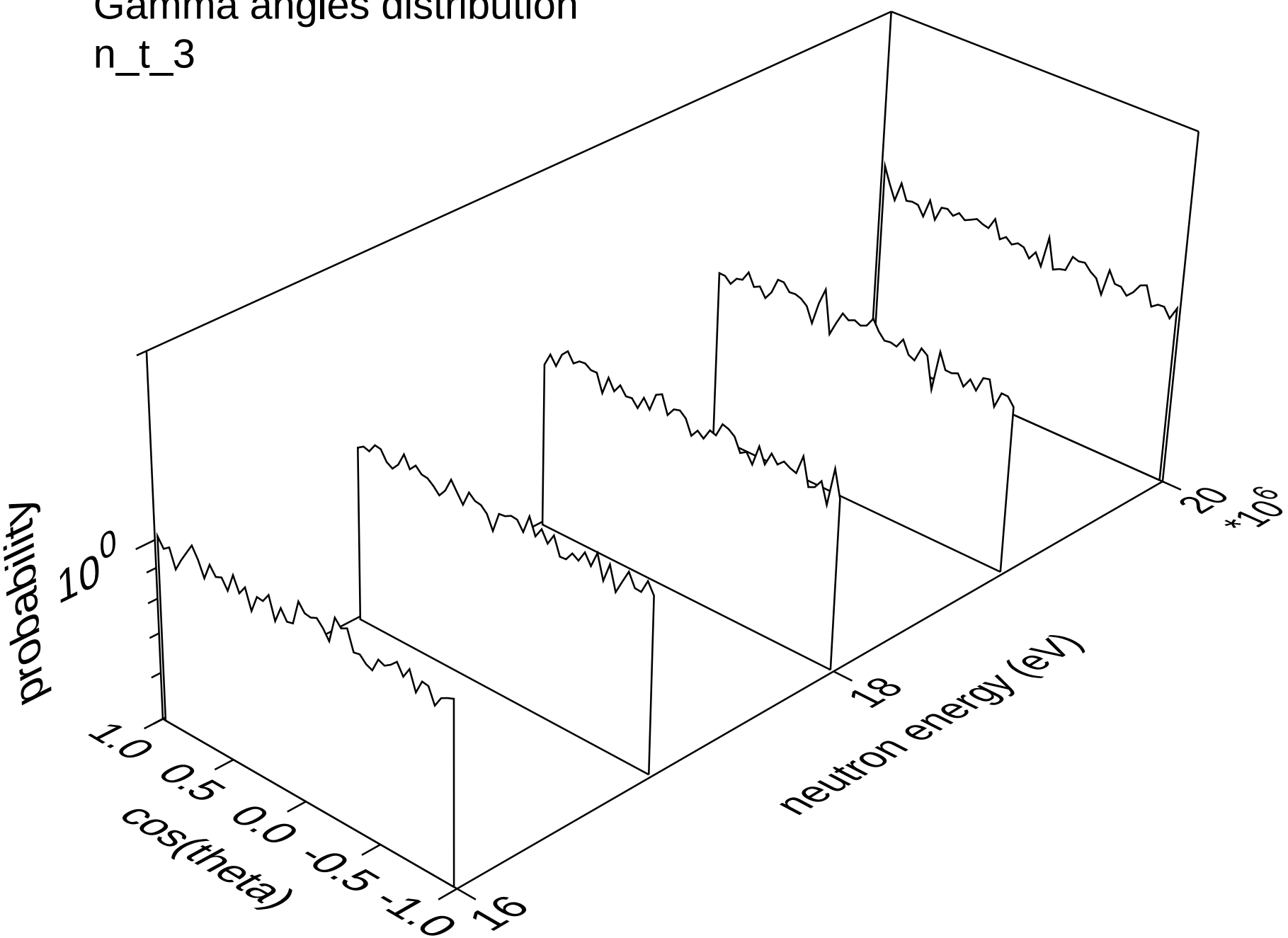

Gamma energy distribution
n_t_2
probability
100
50
0
gamma energy (MeV)
5
10
15
20
16
neutron energy (eV)
18
20
*10^6

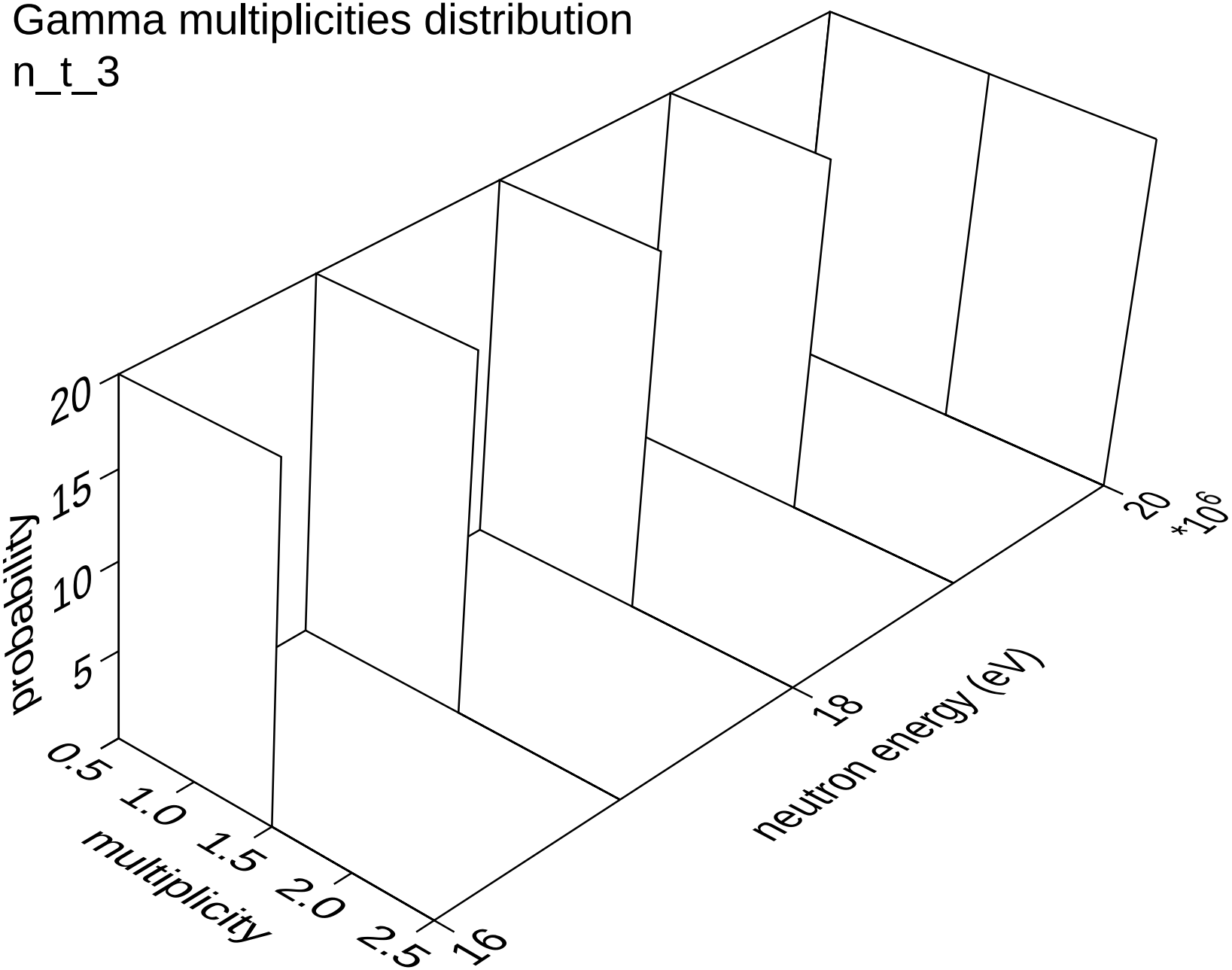

Gamma angles distribution
n_t_2
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

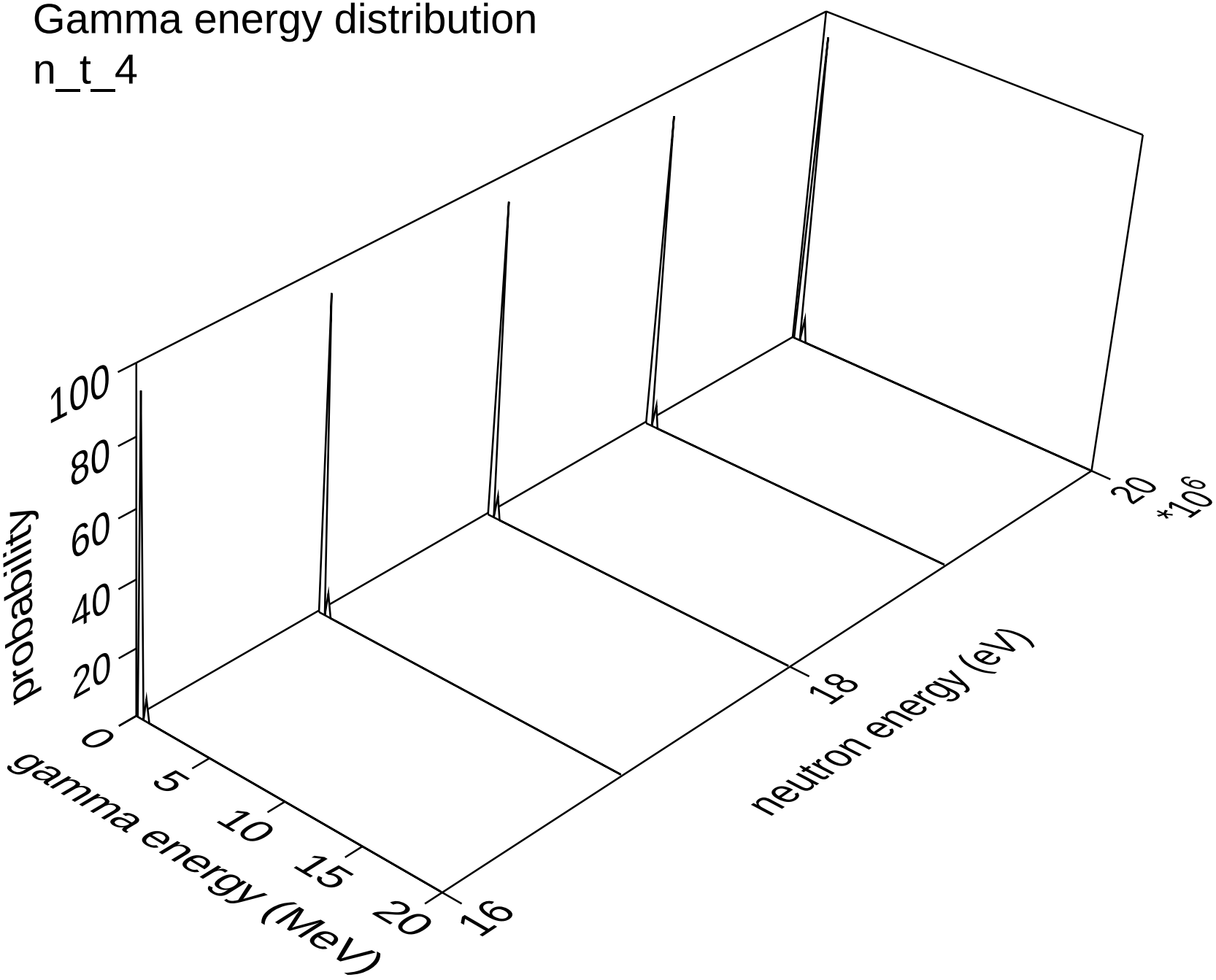
Gamma multiplicities distribution
n_t_2

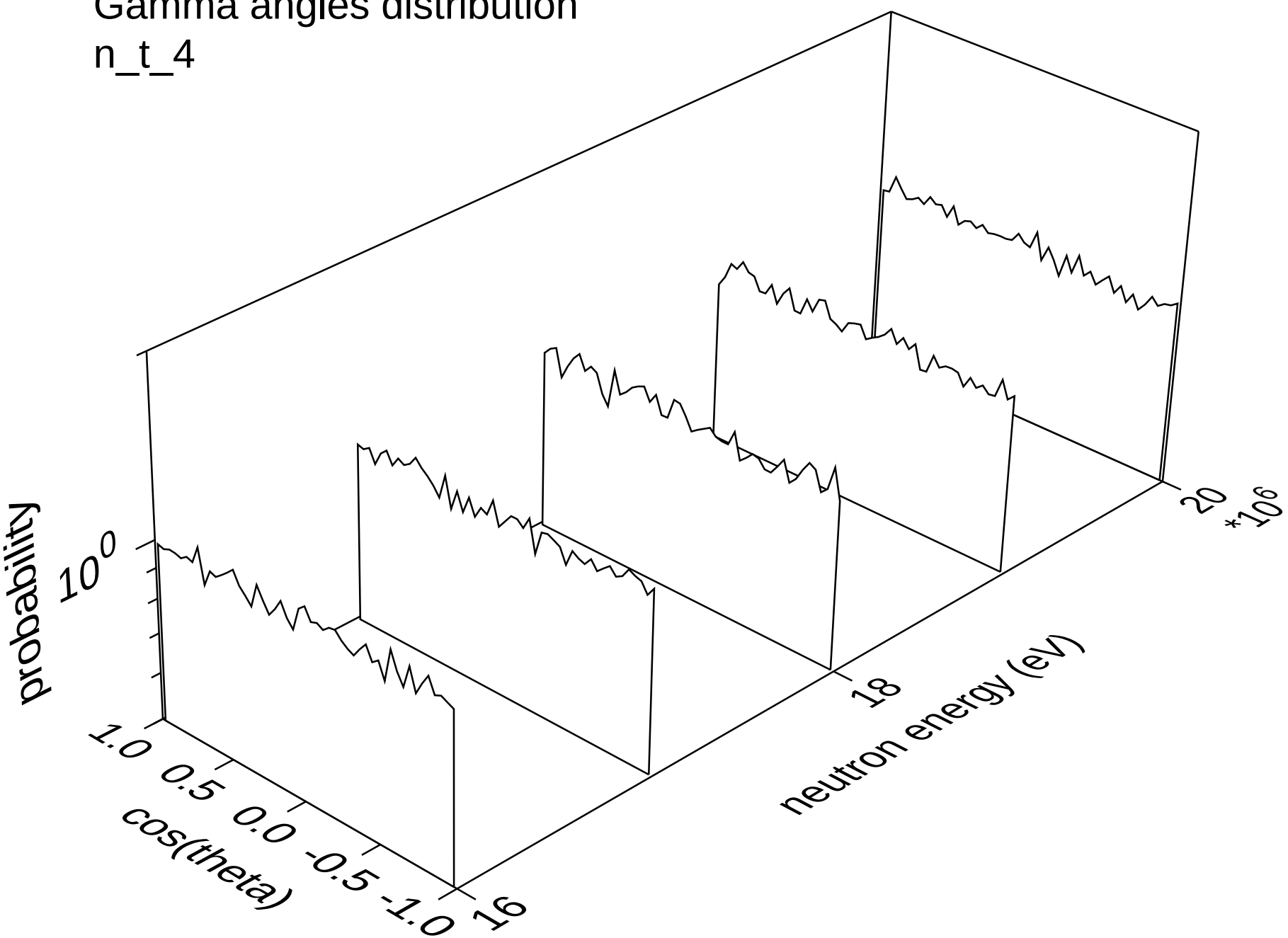



Gamma energy distribution
n_t_3
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
16
18
20
*10^6

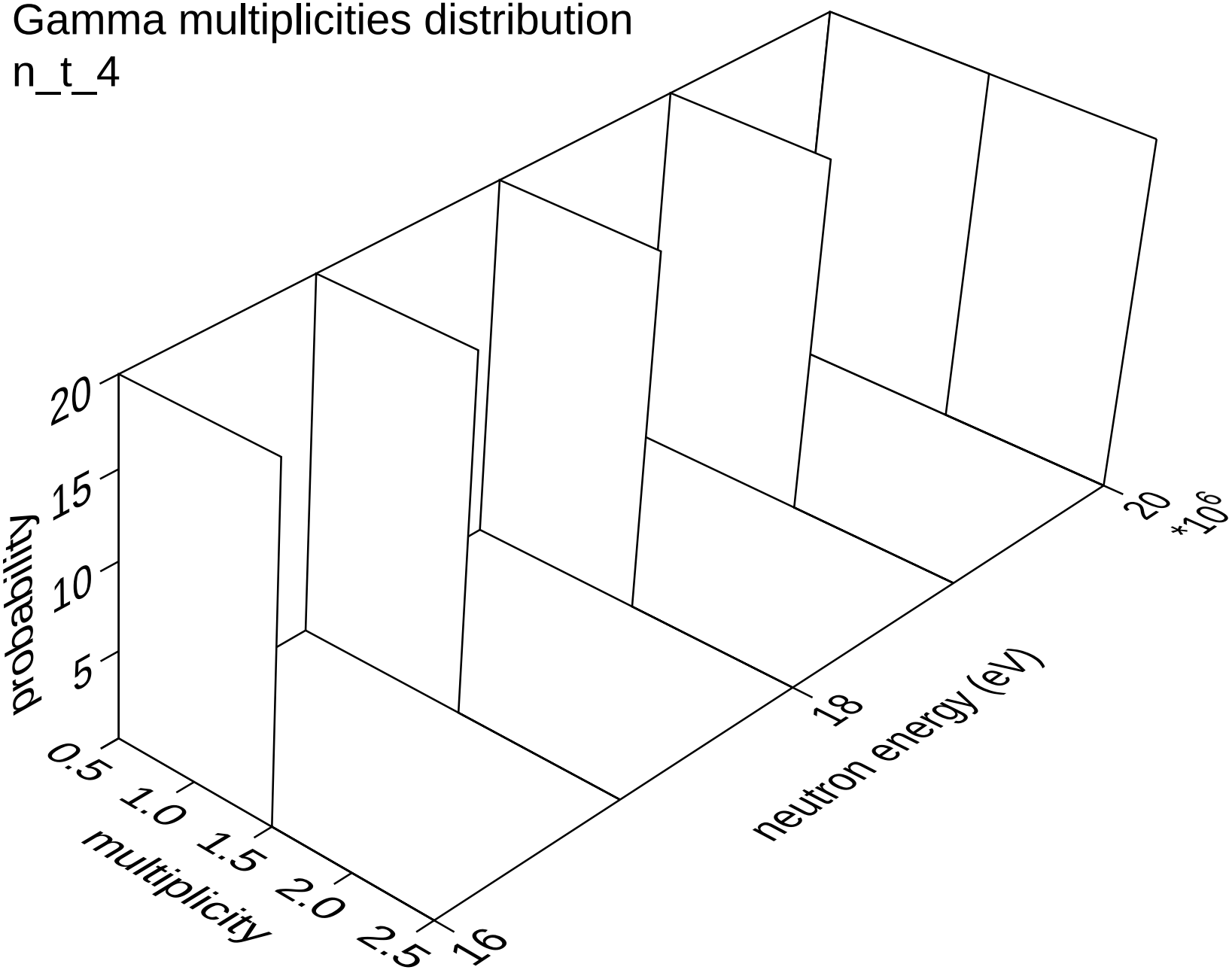

Gamma angles distribution
n_t_3
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

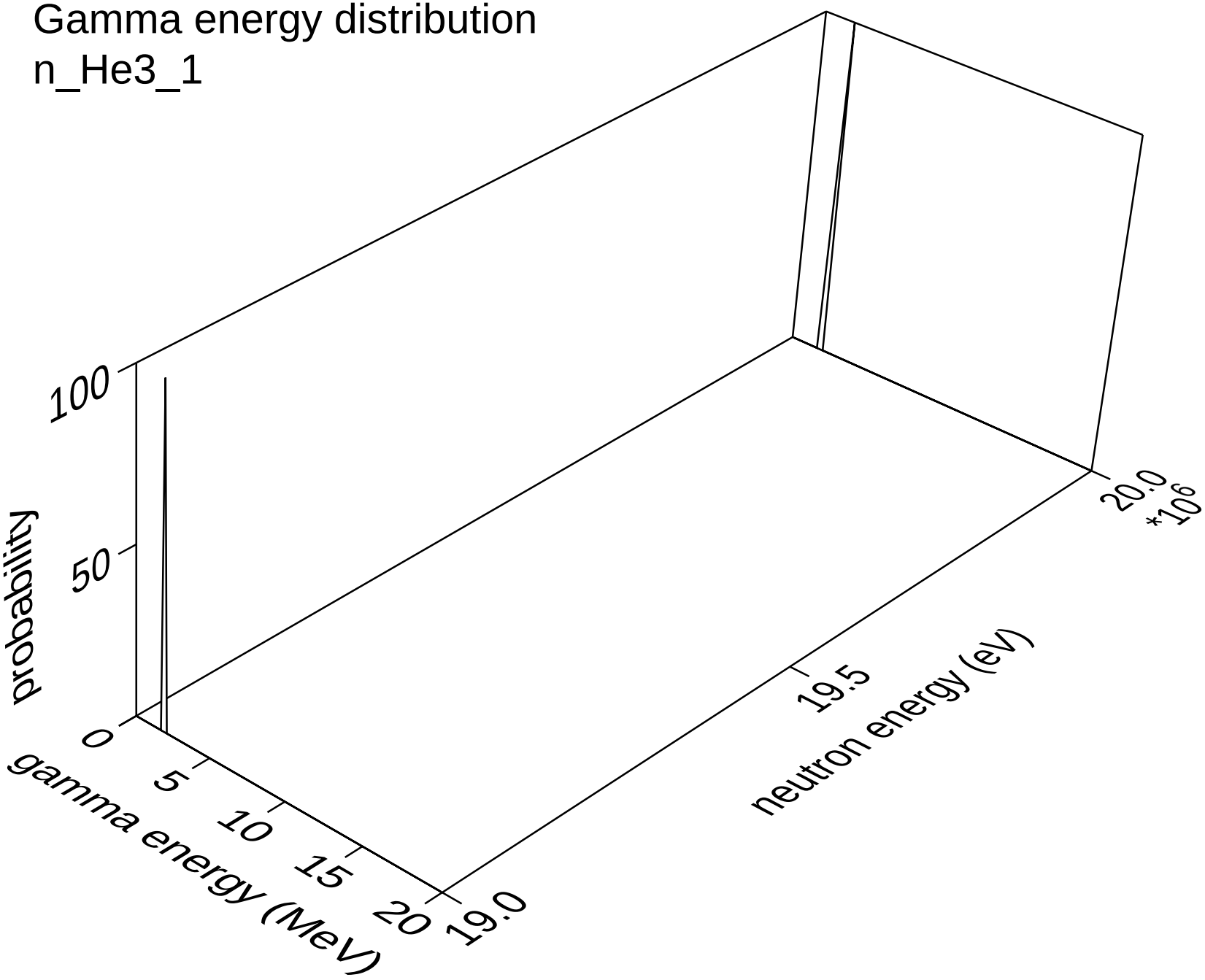

Gamma multiplicities distribution
n_t_3
probability
20
15
10
5
0.5
1.0
1.5
2.0
2.5
multiplicity
16
18
20
*10^6
neutron energy (eV)

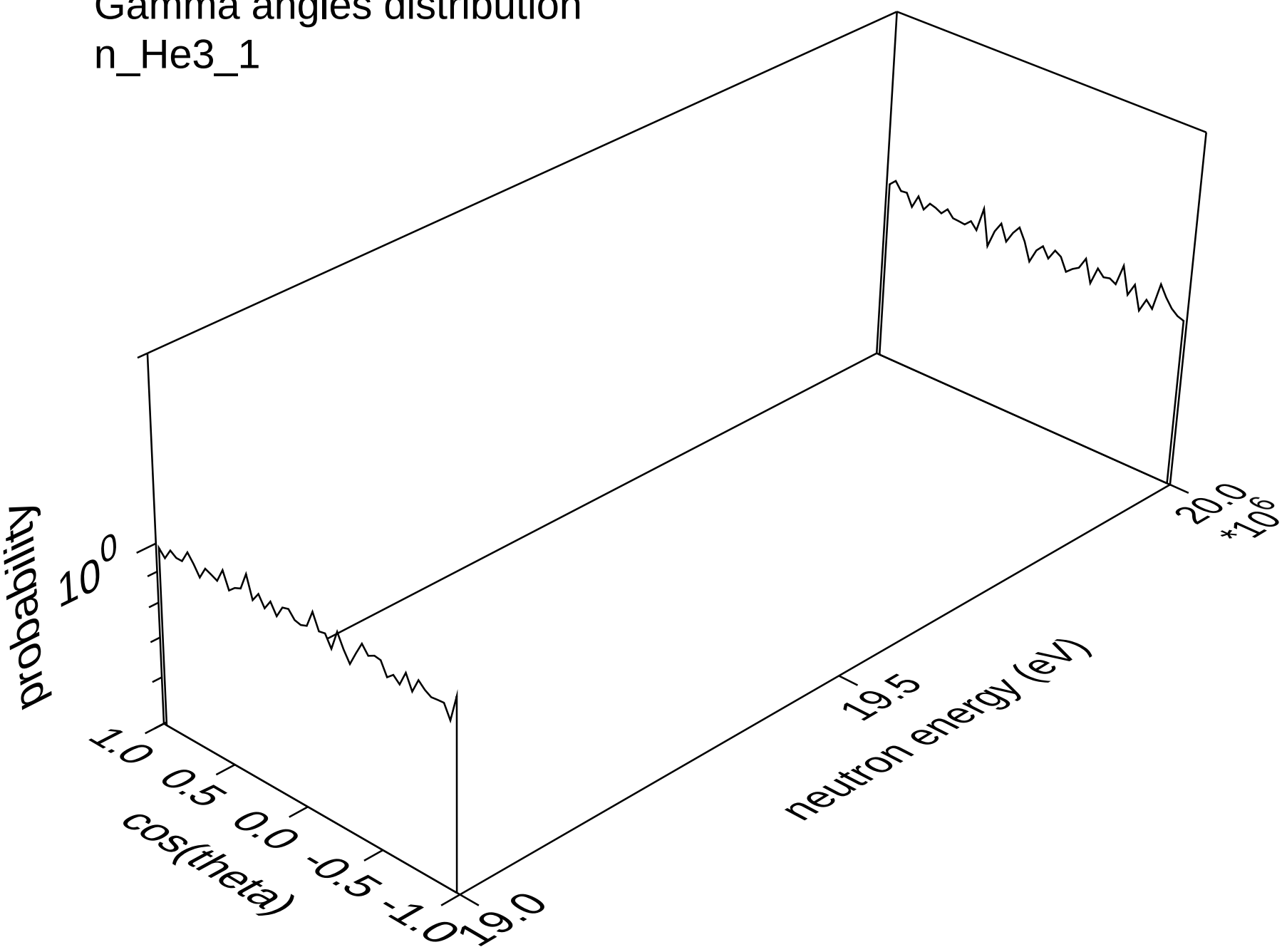

Gamma energy distribution
n_t_4
probability
100
80
60
40
20
0
gamma energy (MeV)
5
10
15
20
16
neutron energy (eV)
18
20
*10^6


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

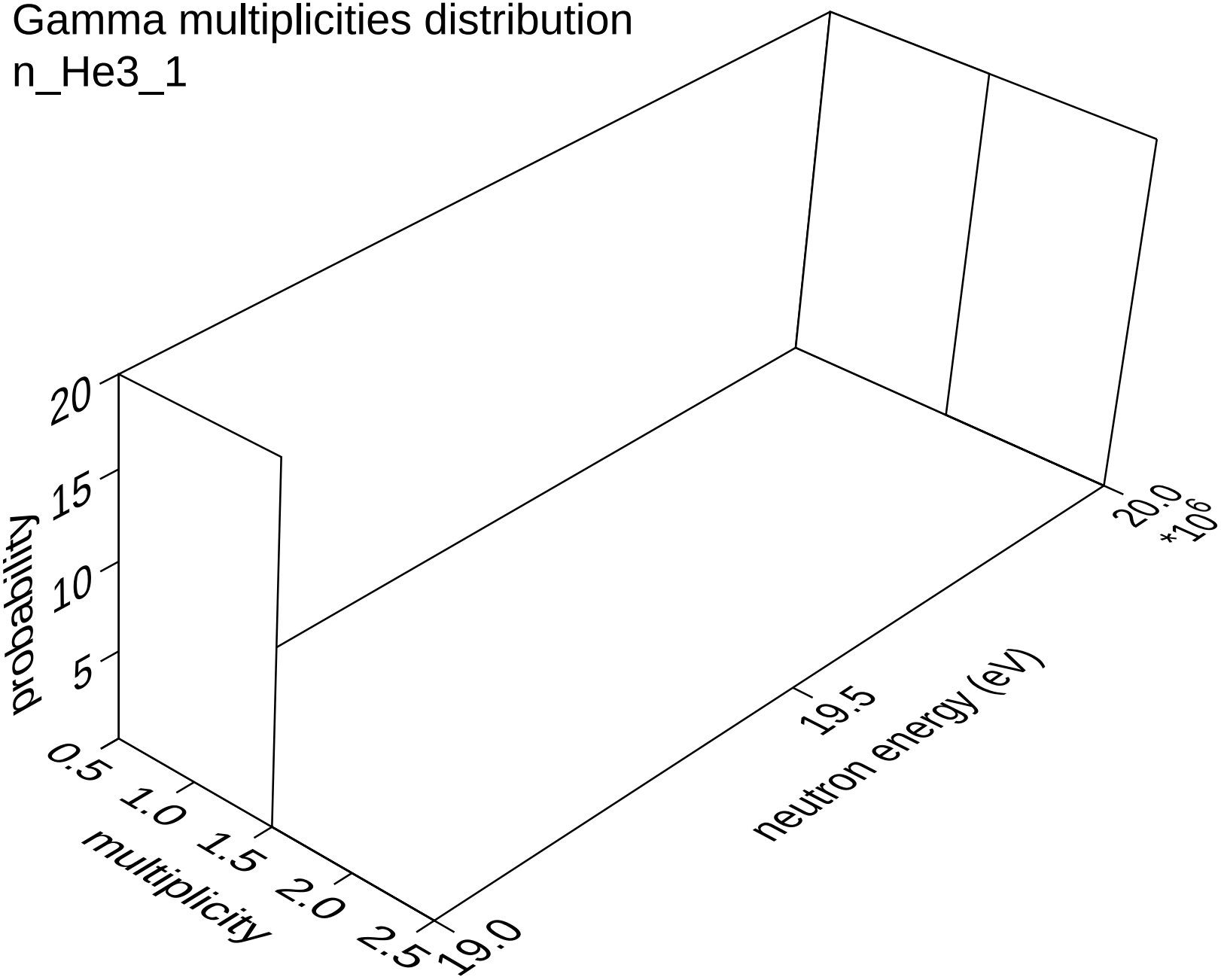
Gamma multiplicities distribution
n_t_4

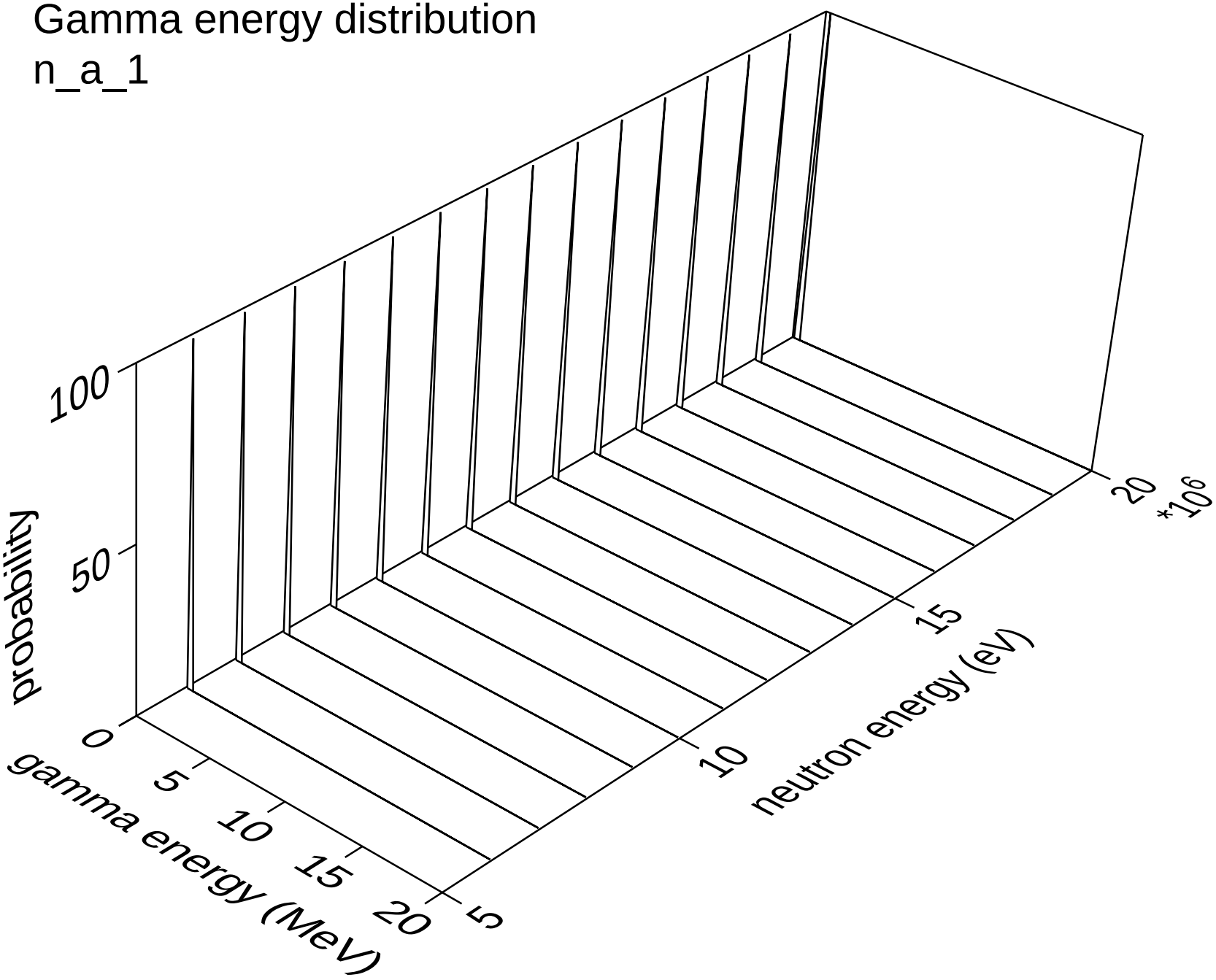


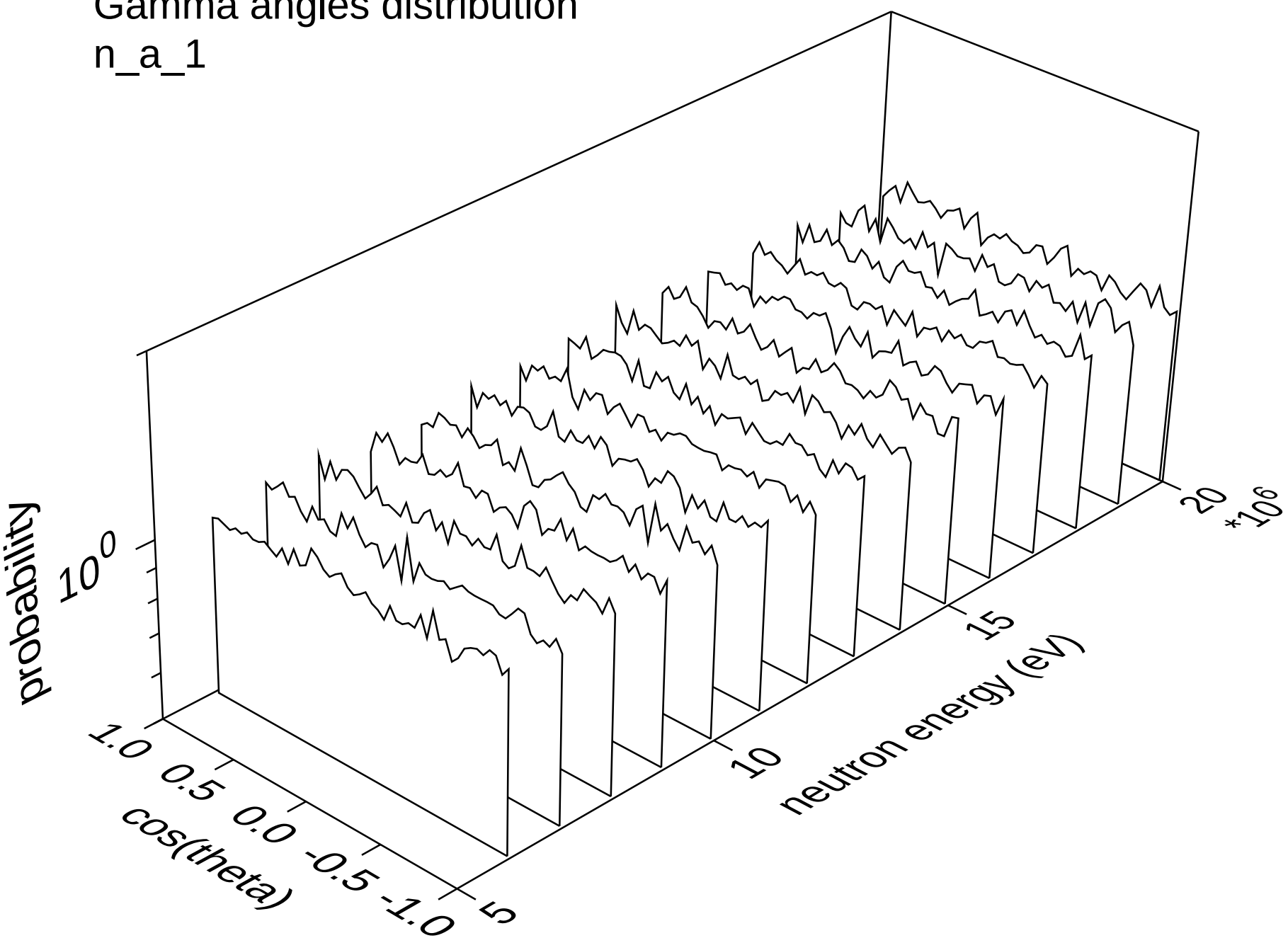

Gamma energy distribution
n_He3_1
probability
100
50
0
gamma energy (MeV)
5
10
15
20
neutron energy (eV)
19.0
19.5
20.0
*10^6


Gamma angles distribution
n_He3_1
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)

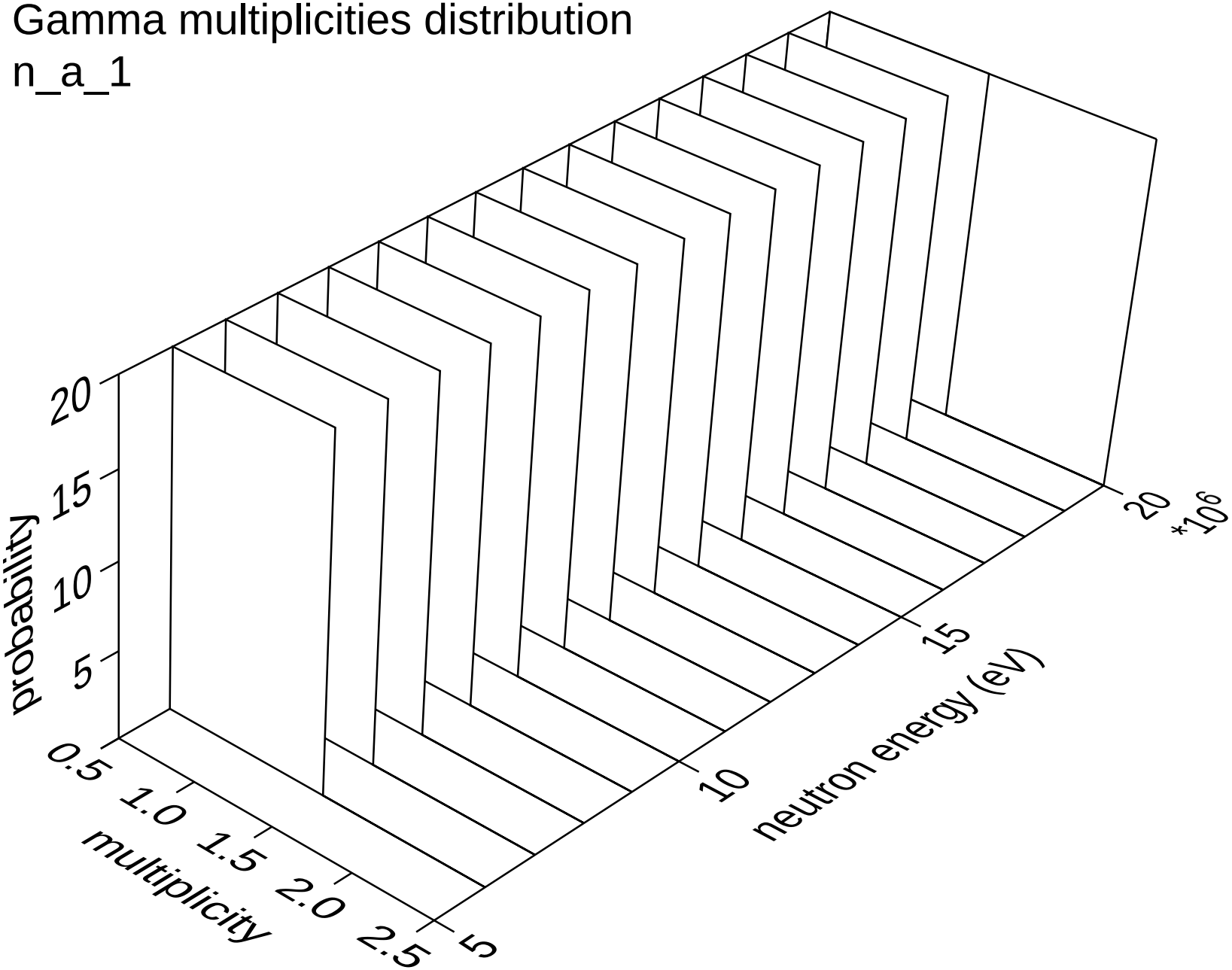
Gamma multiplicities distribution
n_He3_1

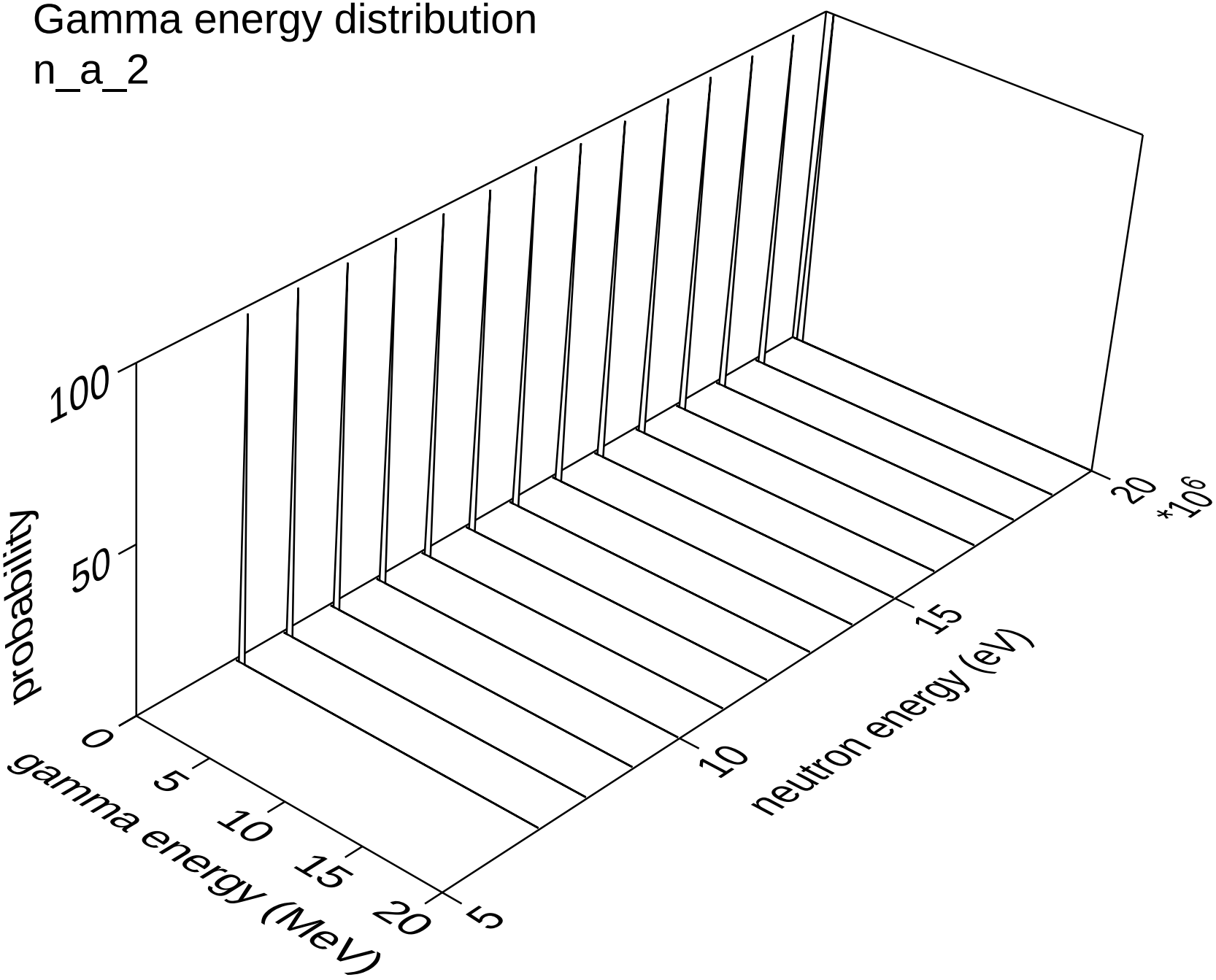


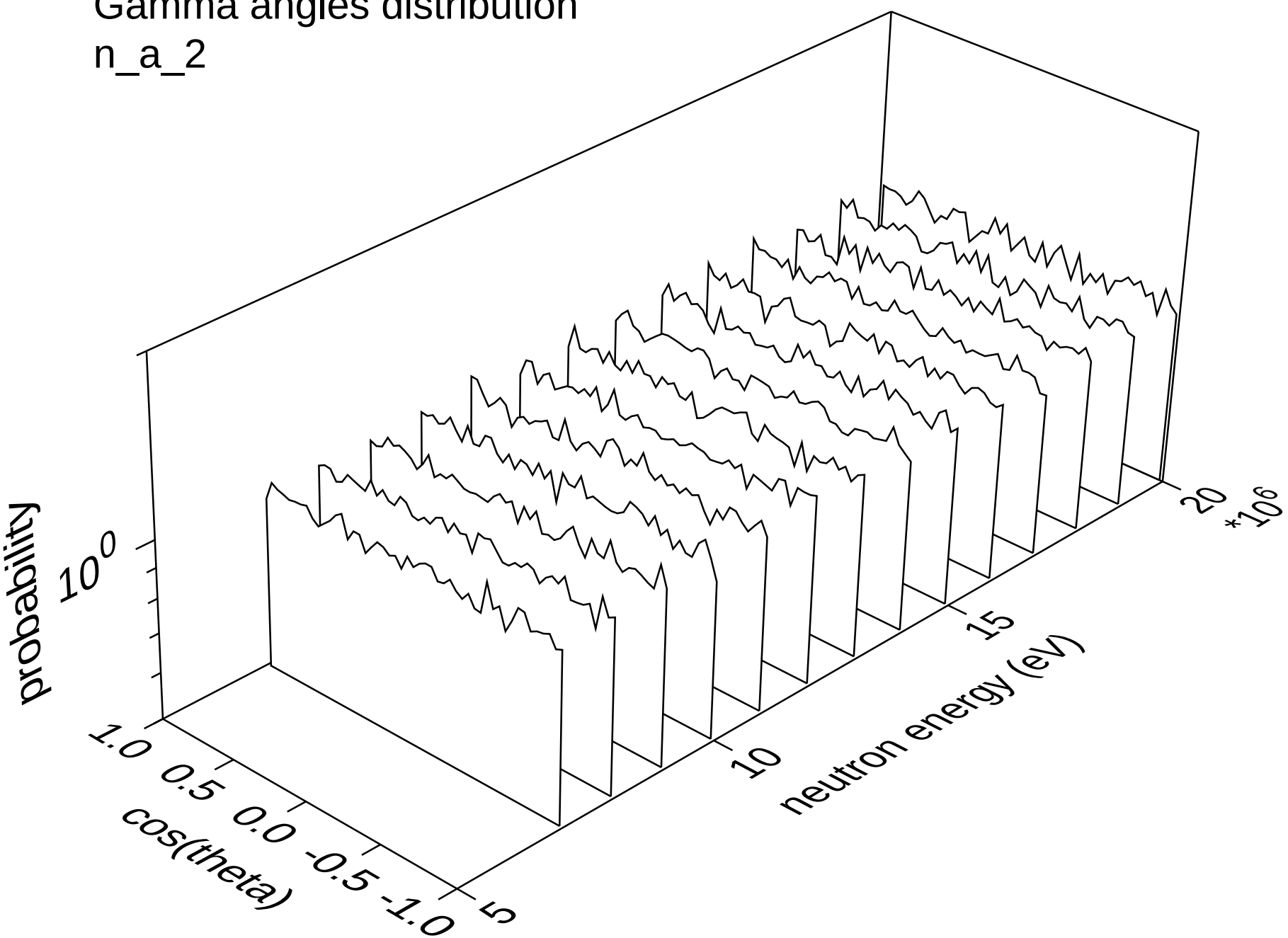

Gamma energy distribution
n_a_1
probability
100
50
0
gamma energy (MeV)
0
5
10
15
20
5
neutron energy (eV)
10
15
20
*10^6


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

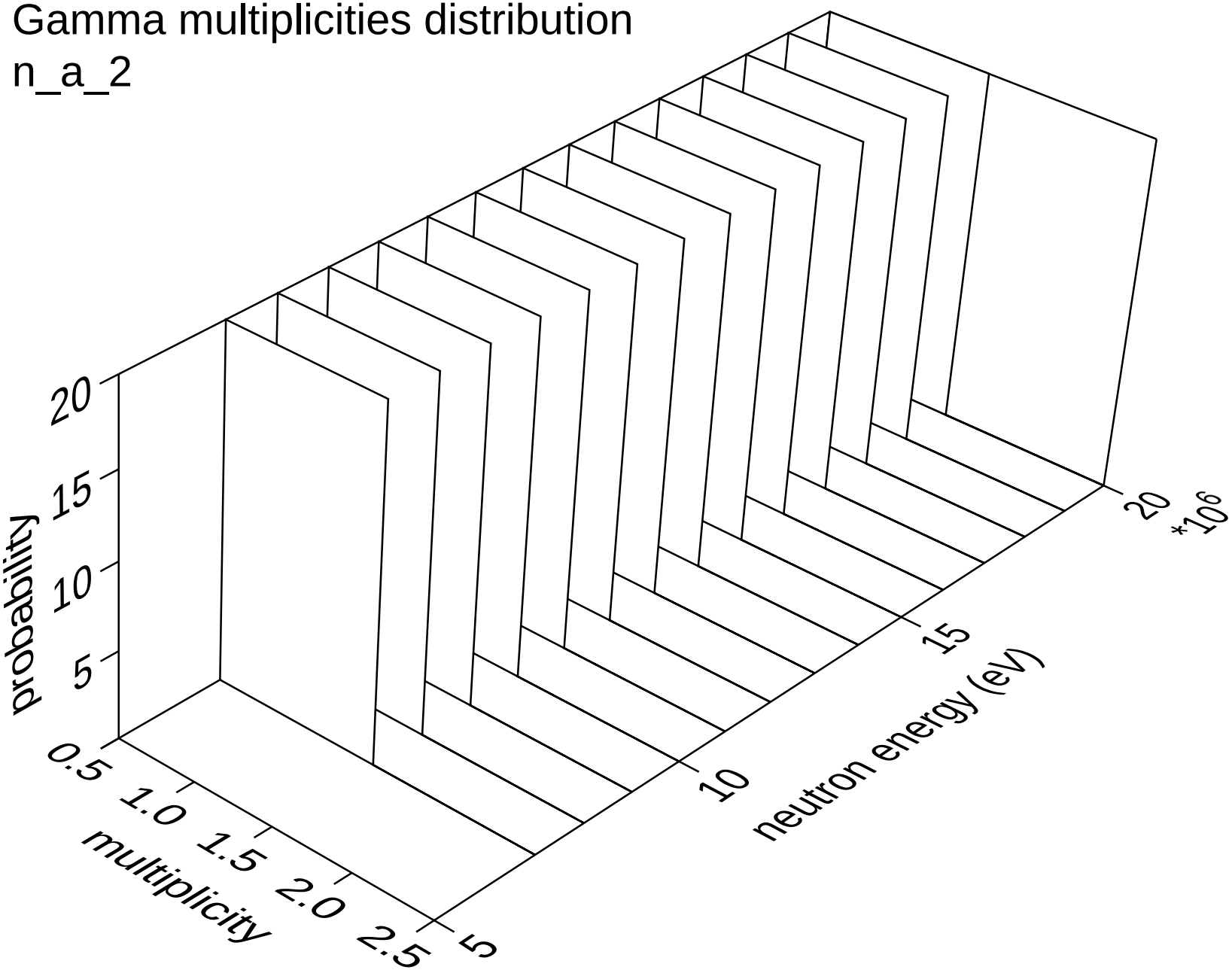
Gamma multiplicities distribution
n_a_1

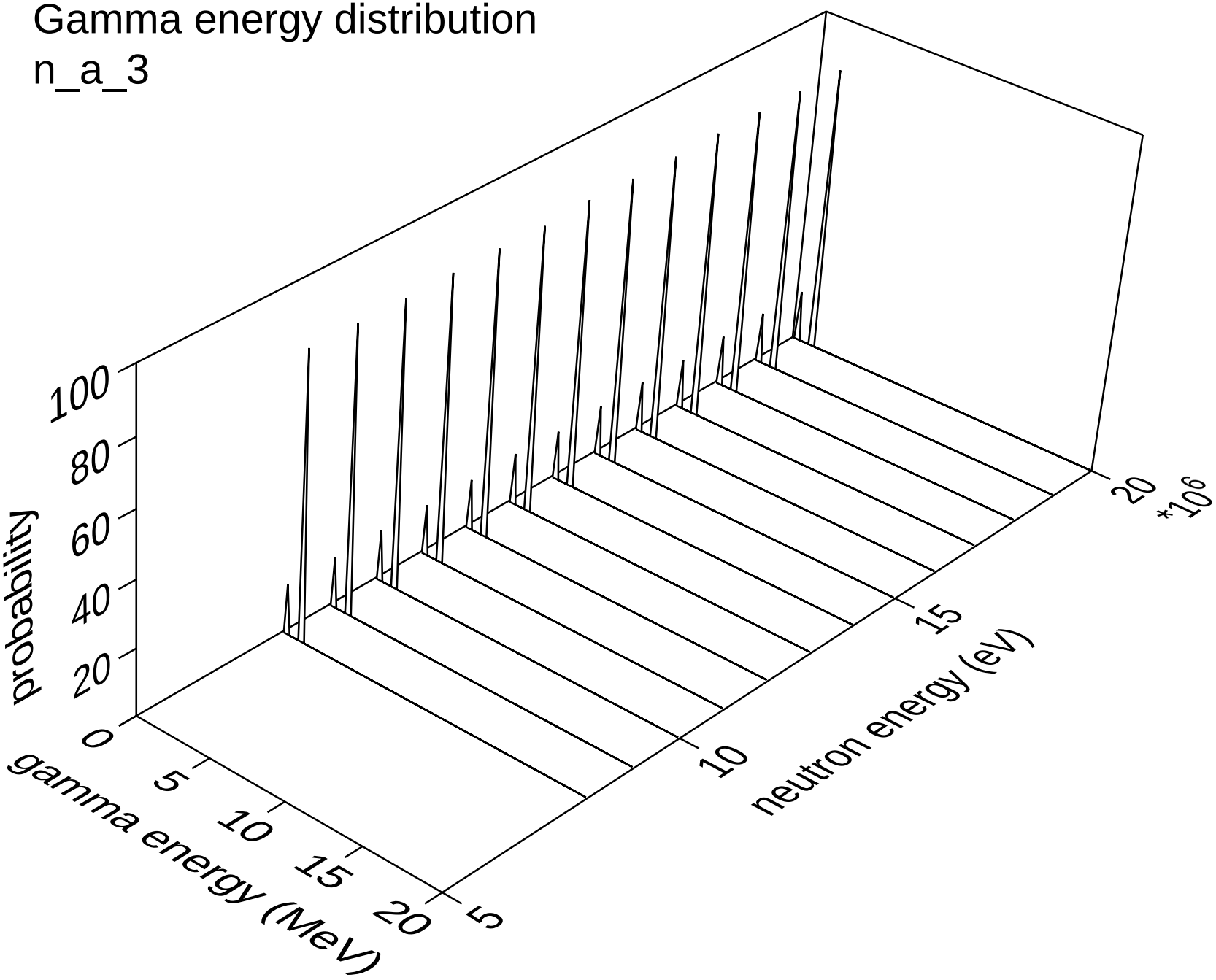


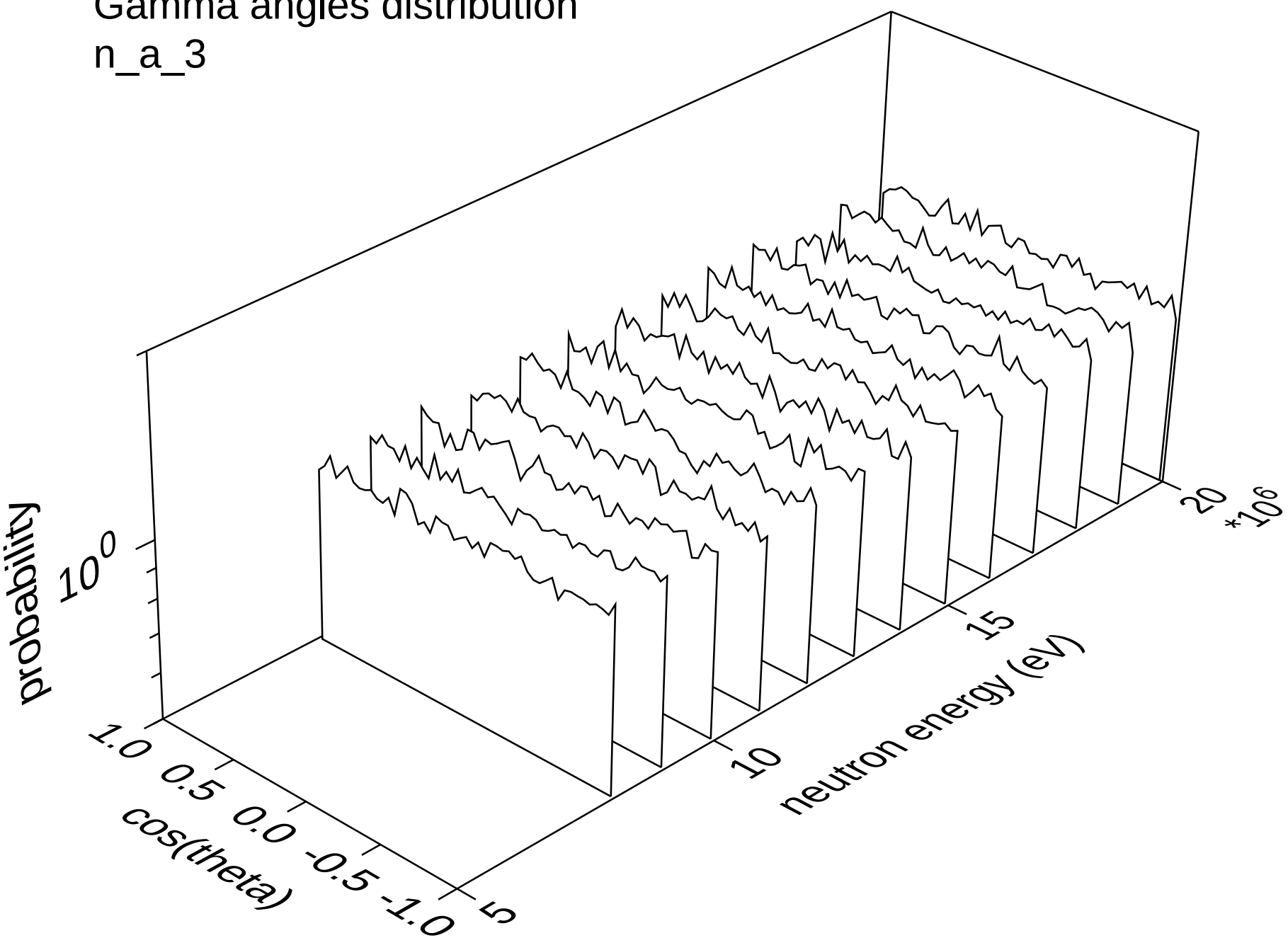

Gamma energy distribution
n_a_2
probability
100
50
0
gamma energy (MeV)
5
10
15
20
5
neutron energy (eV)
10
15
20
*10^6


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

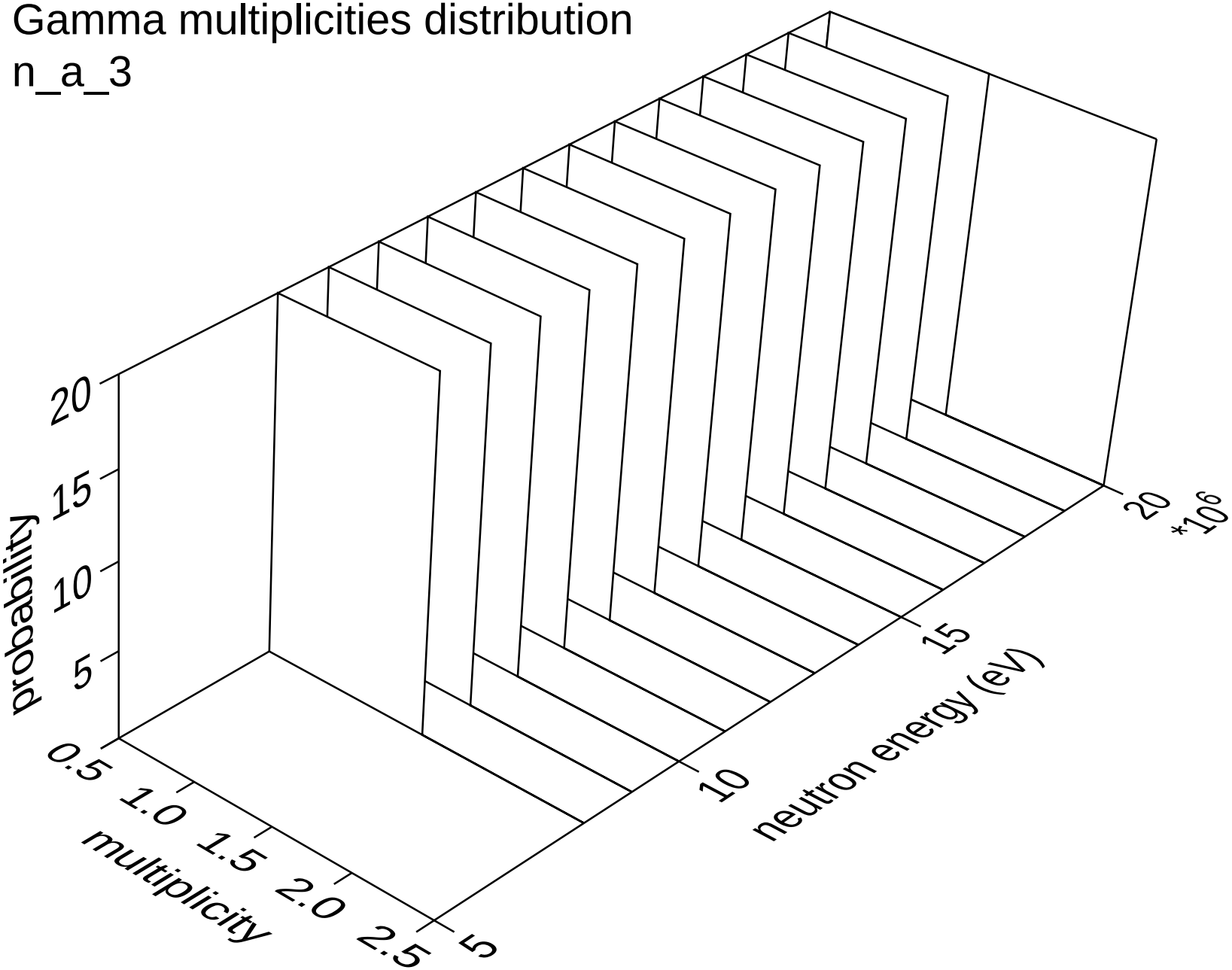
Gamma multiplicities distribution
n_a_2

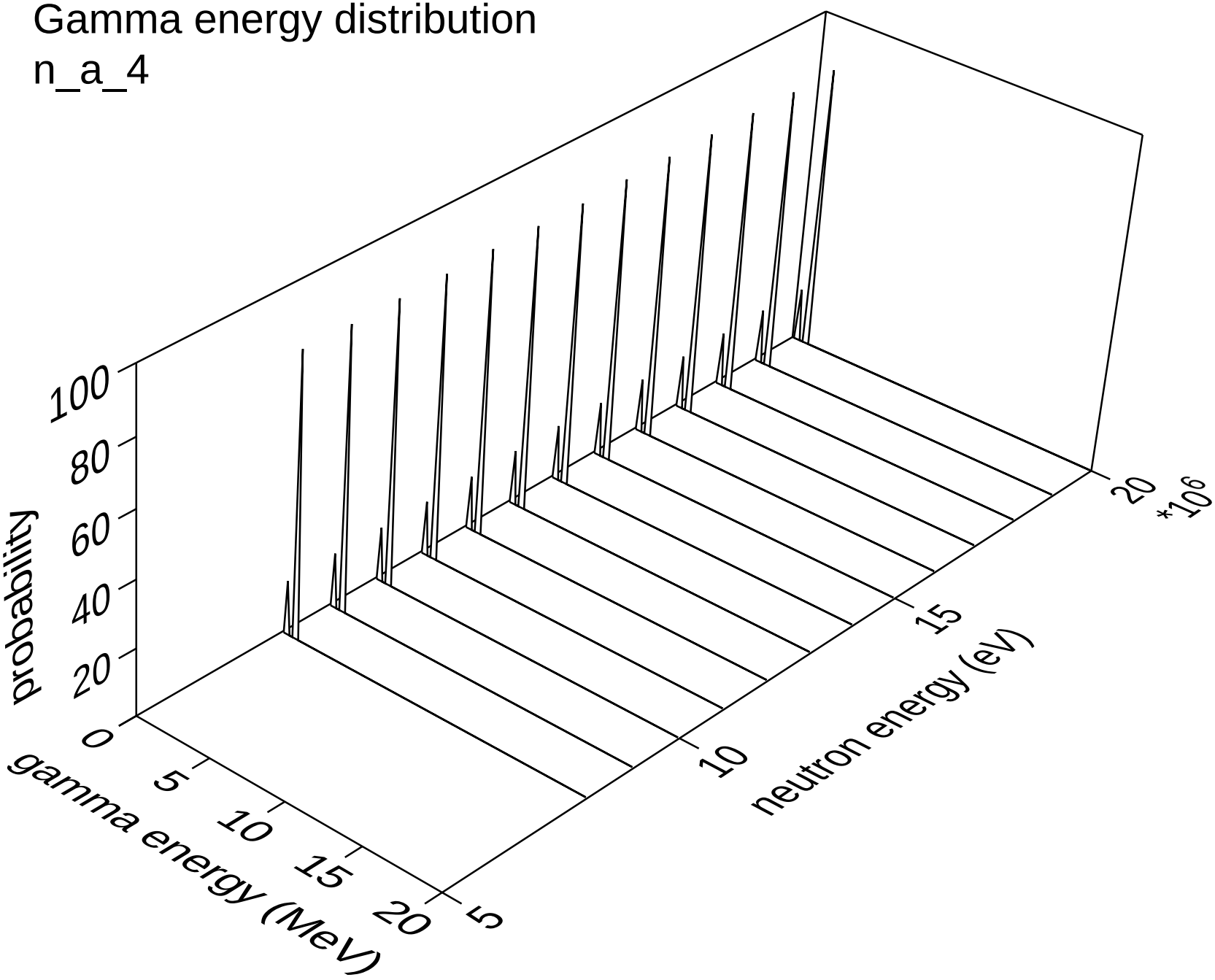


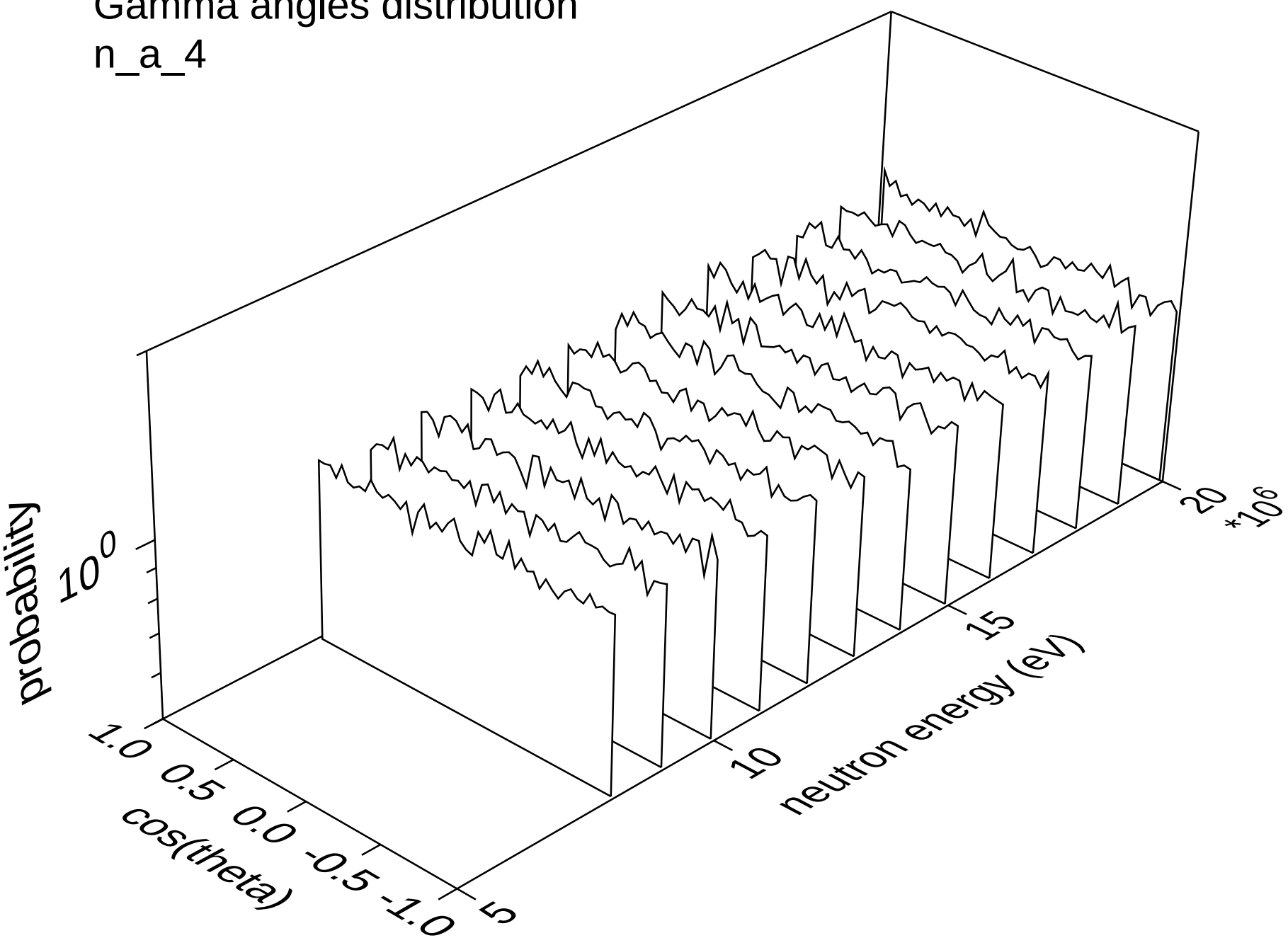

Gamma energy distribution
n_a_3
probability
100
80
60
40
20
0
gamma energy (MeV)
5
10
15
20
neutron energy (eV)
5
10
15
20
*10^6


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

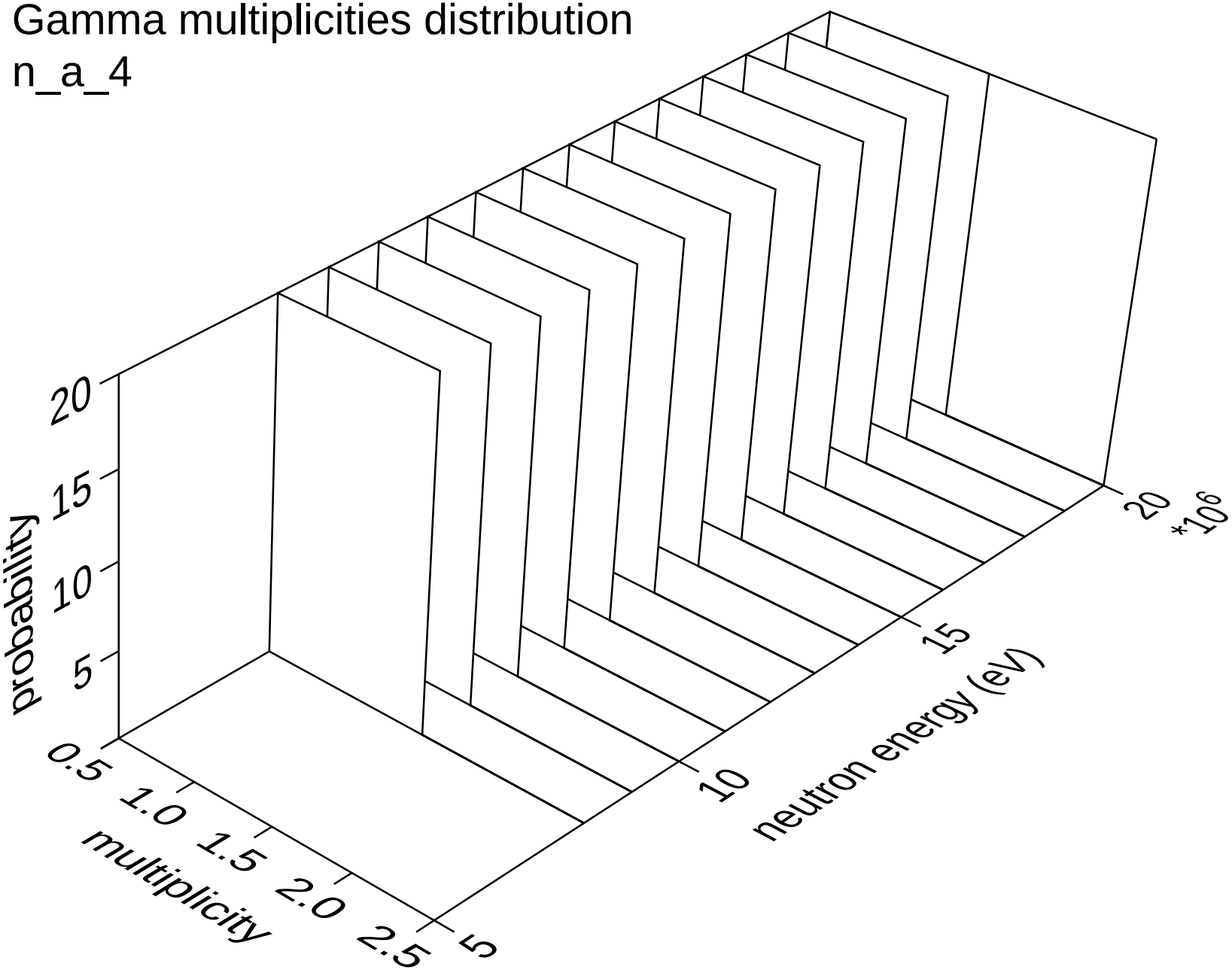
Gamma multiplicities distribution
n_a_3

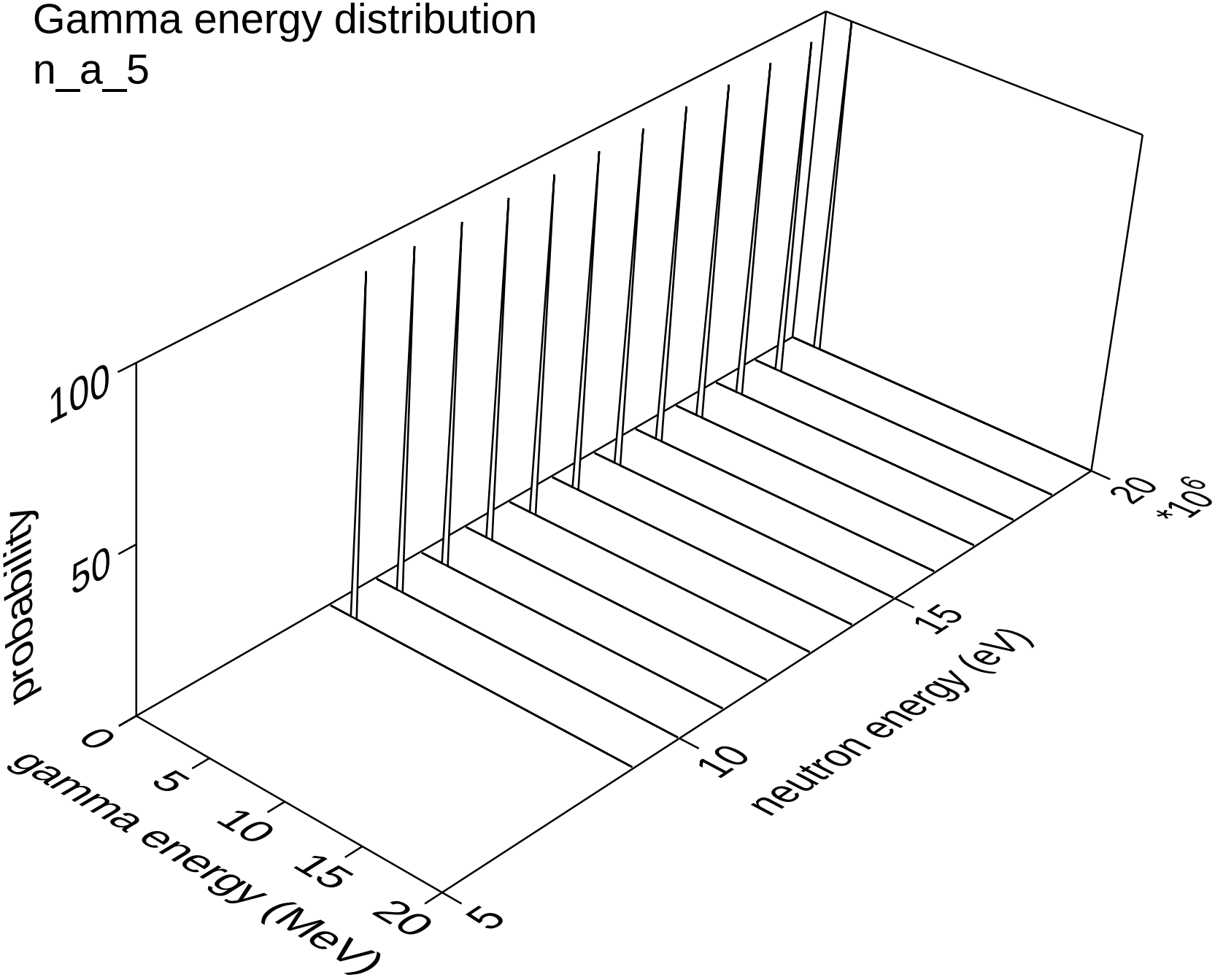


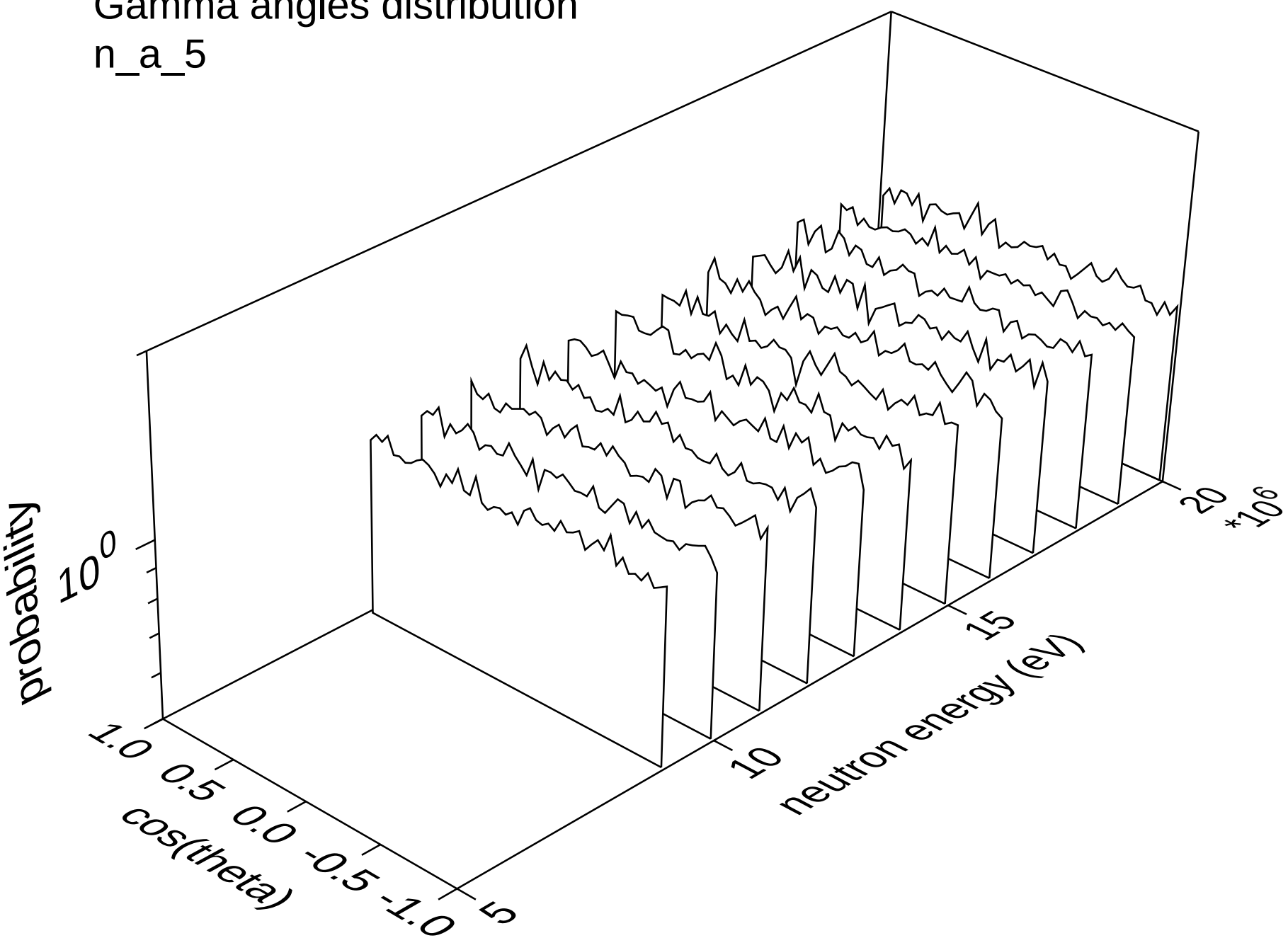
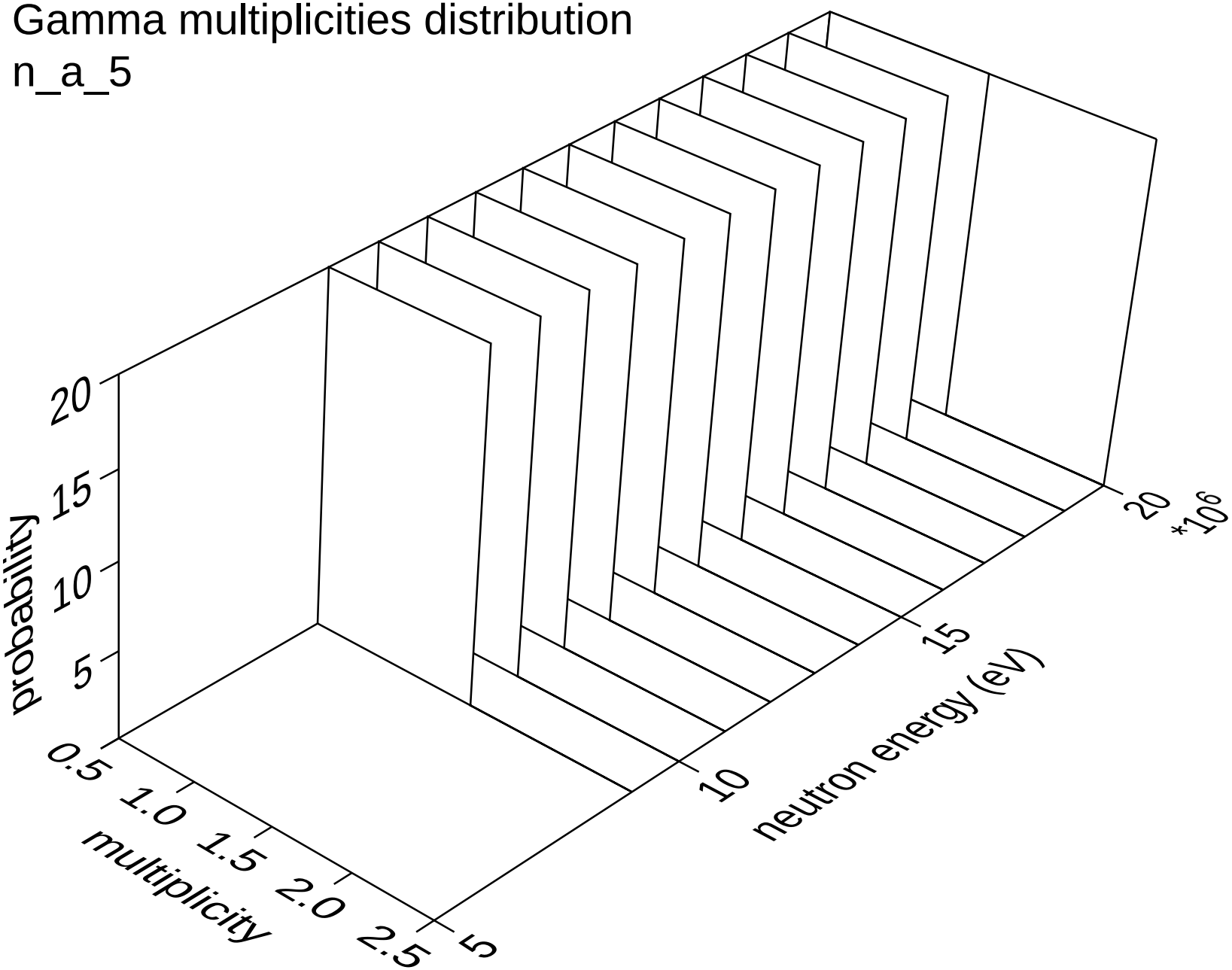

Gamma energy distribution
n_a_4
probability
100
80
60
40
20
0
gamma energy (MeV)
5
10
15
20
neutron energy (eV)
10
15
20
*10^6


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

Gamma multiplicities distribution
n_a_4




Gamma energy distribution
n_a_5
probability
100
50
0
gamma energy (MeV)
5
10
15
20
5
neutron energy (eV)
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)
5
10
15
20
*10^6
neutron energy (eV)

Gamma multiplicities distribution
n_a_5