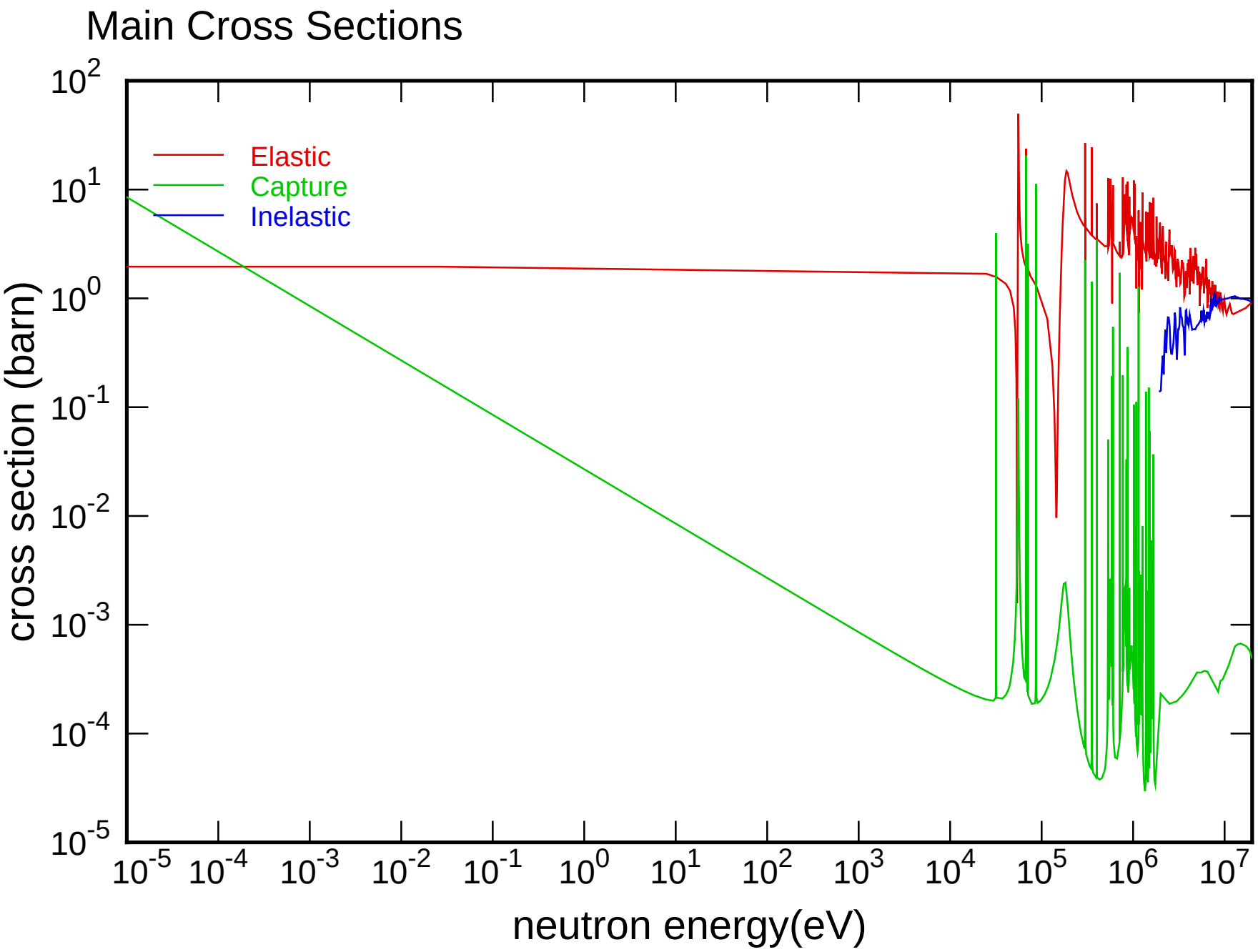
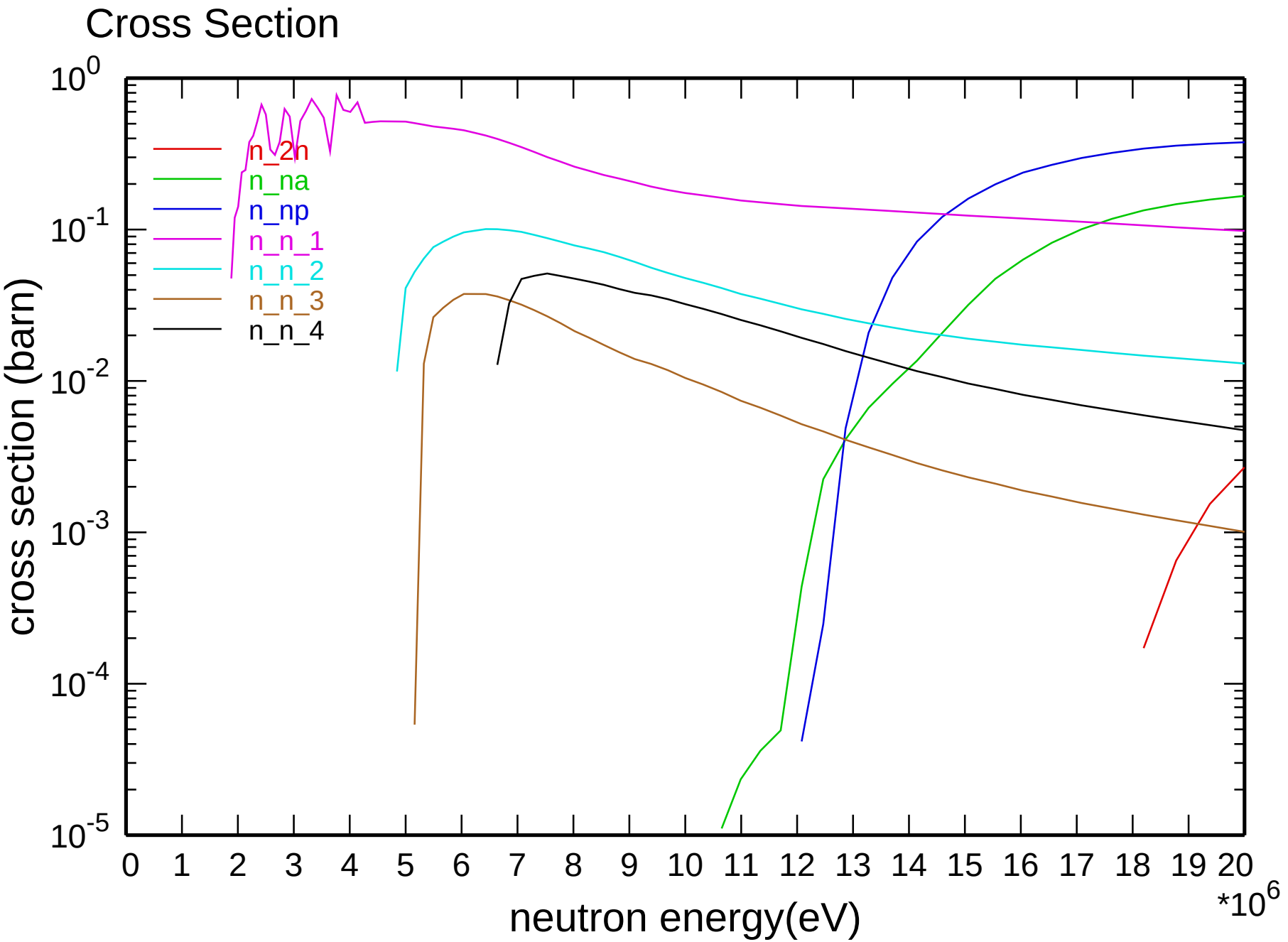
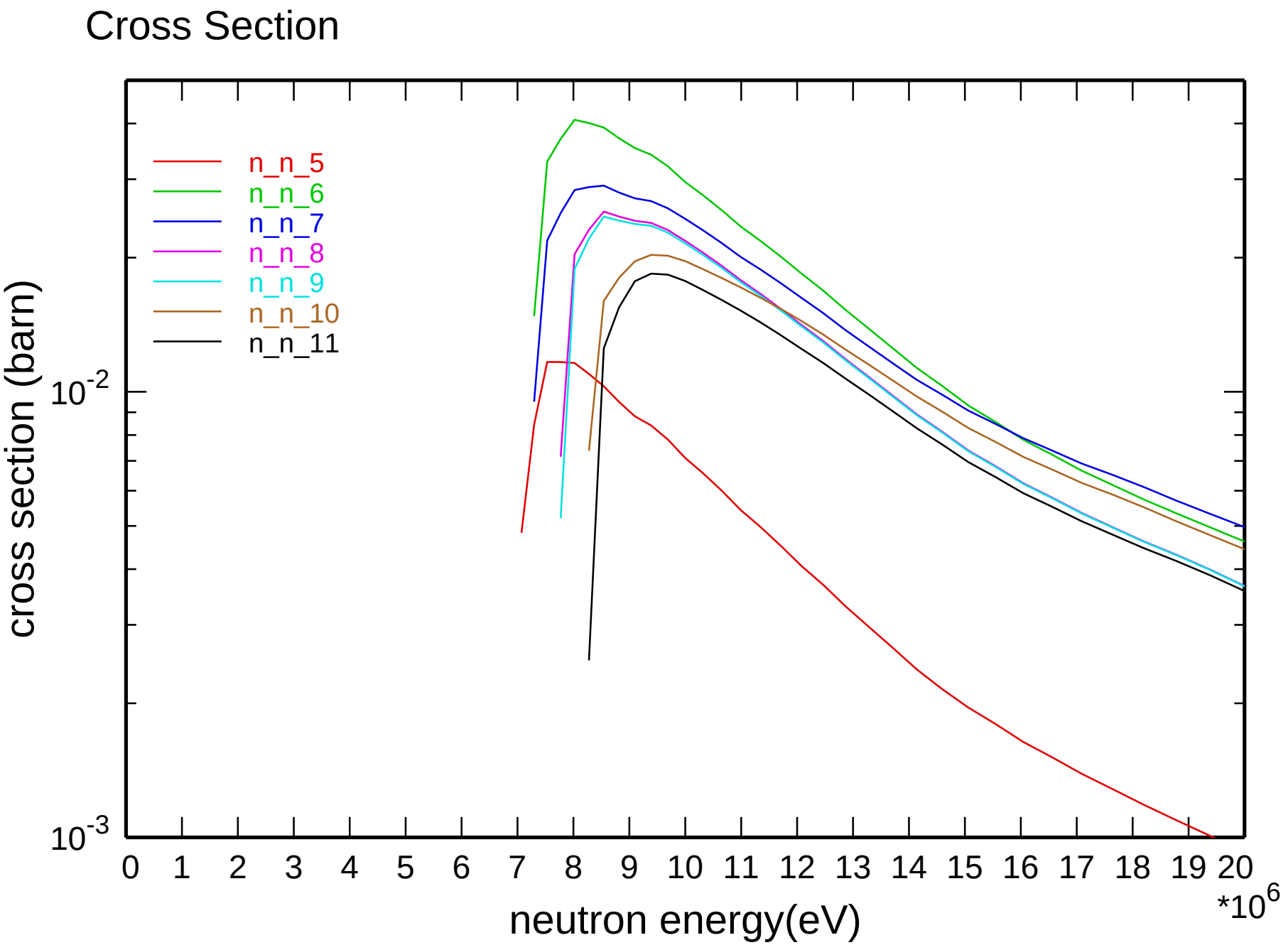
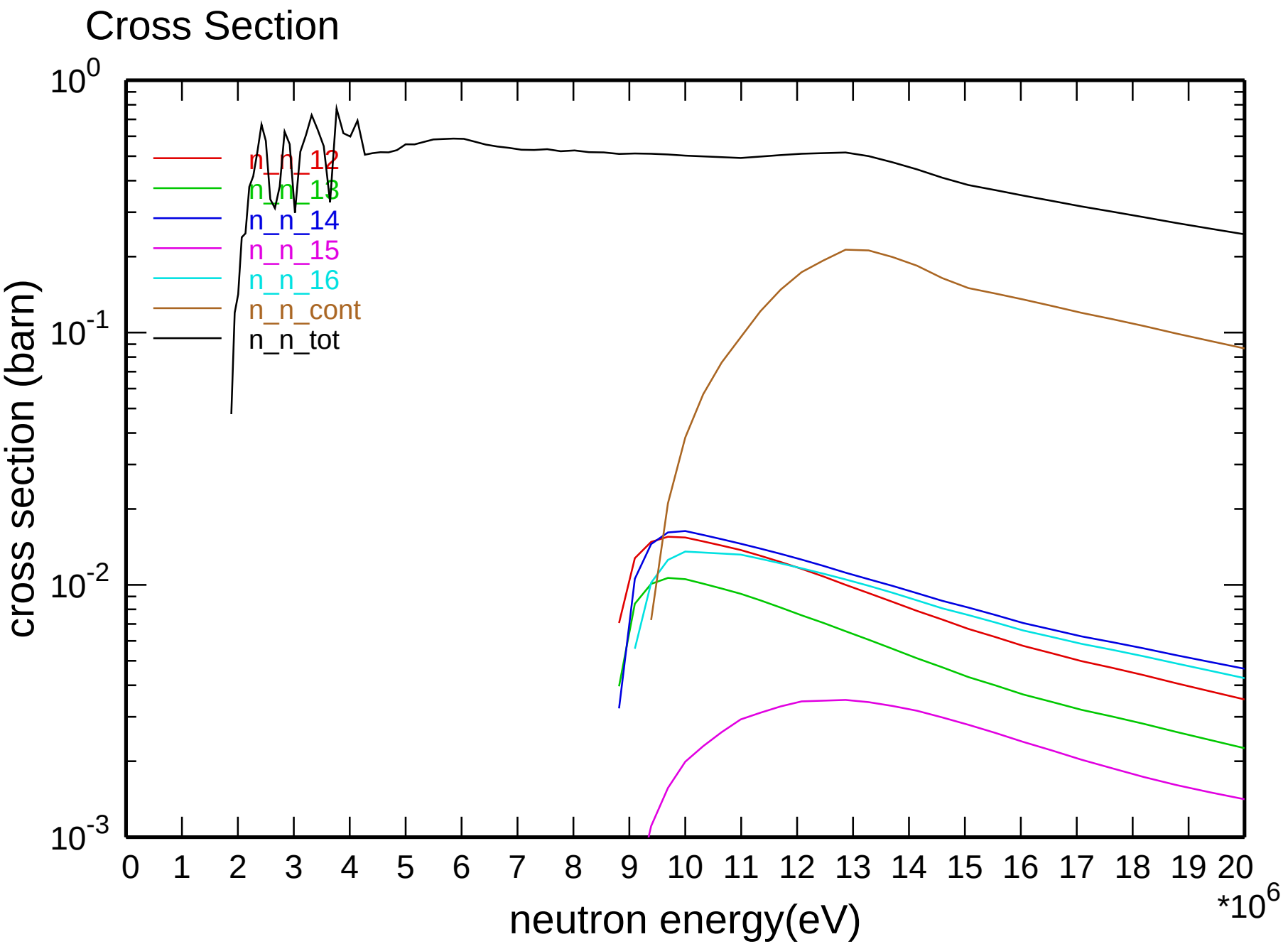
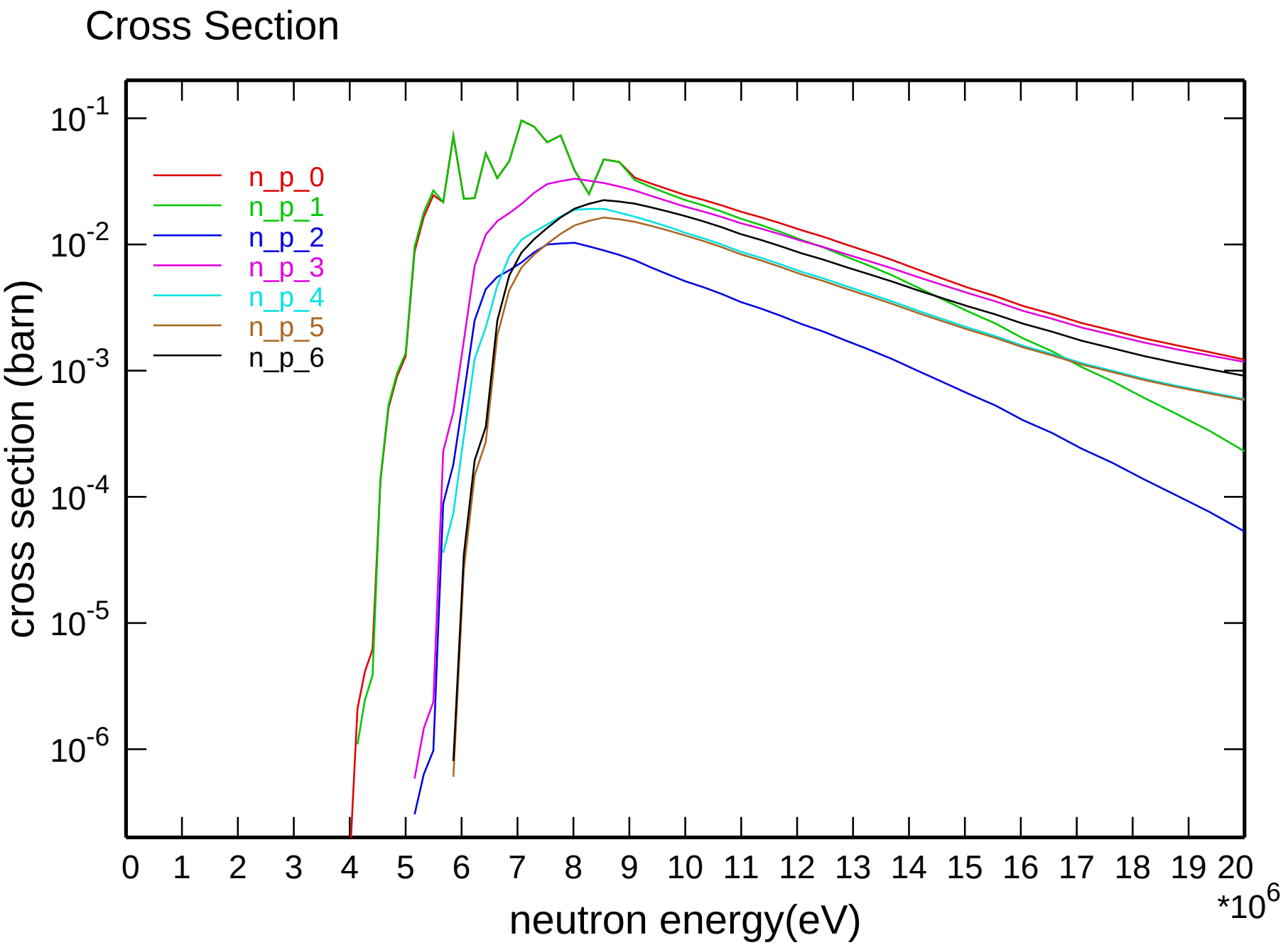
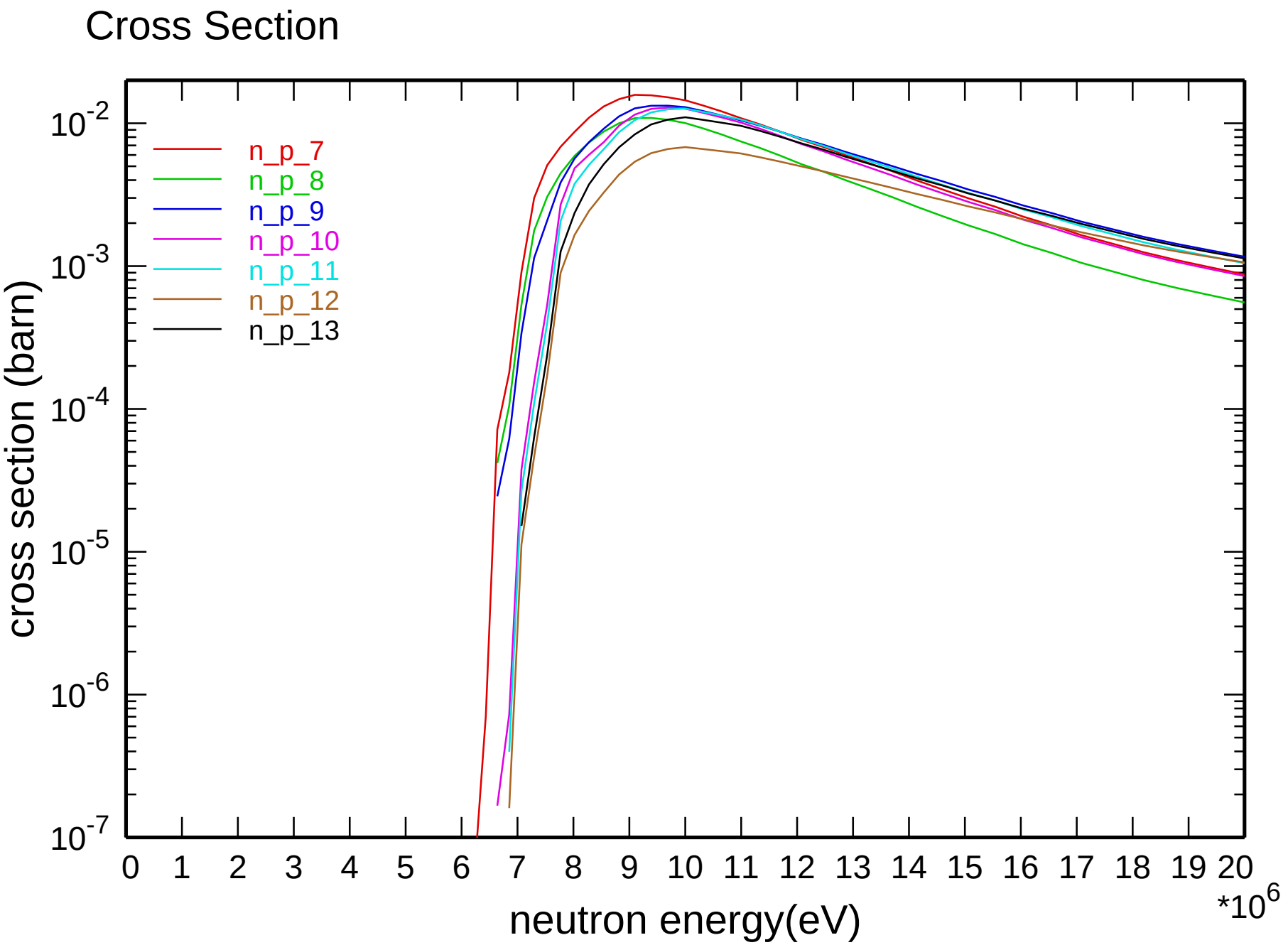

Main Cross Sections
Elastic
Capture
Inelastic
cross section (barn)
neutron energy(eV)
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7

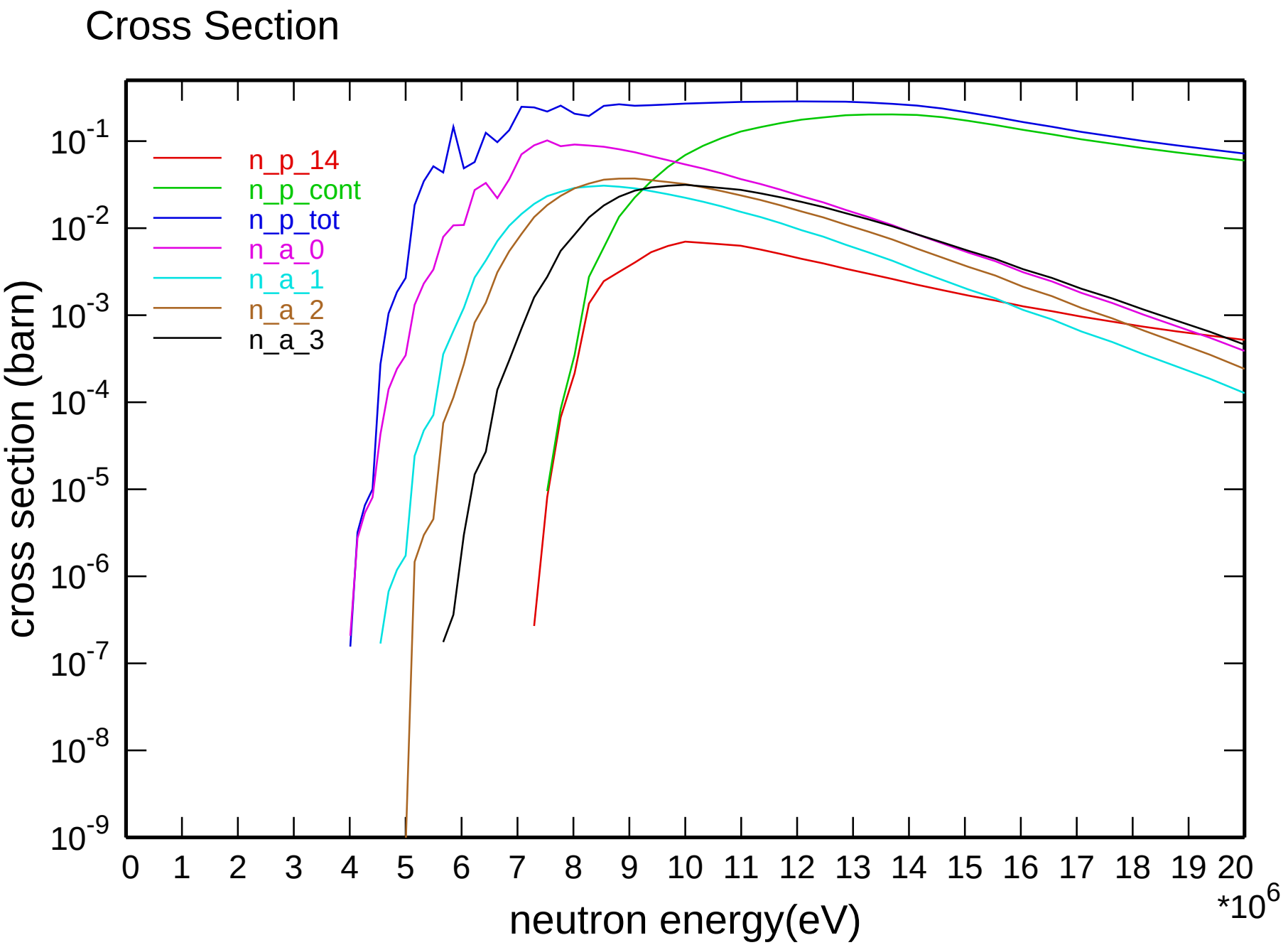

Cross Section
cross section (barn)
neutron energy(eV)
*10^6
n_2n
n_na
n_np
n_n_1
n_n_2
n_n_3
n_n_4
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

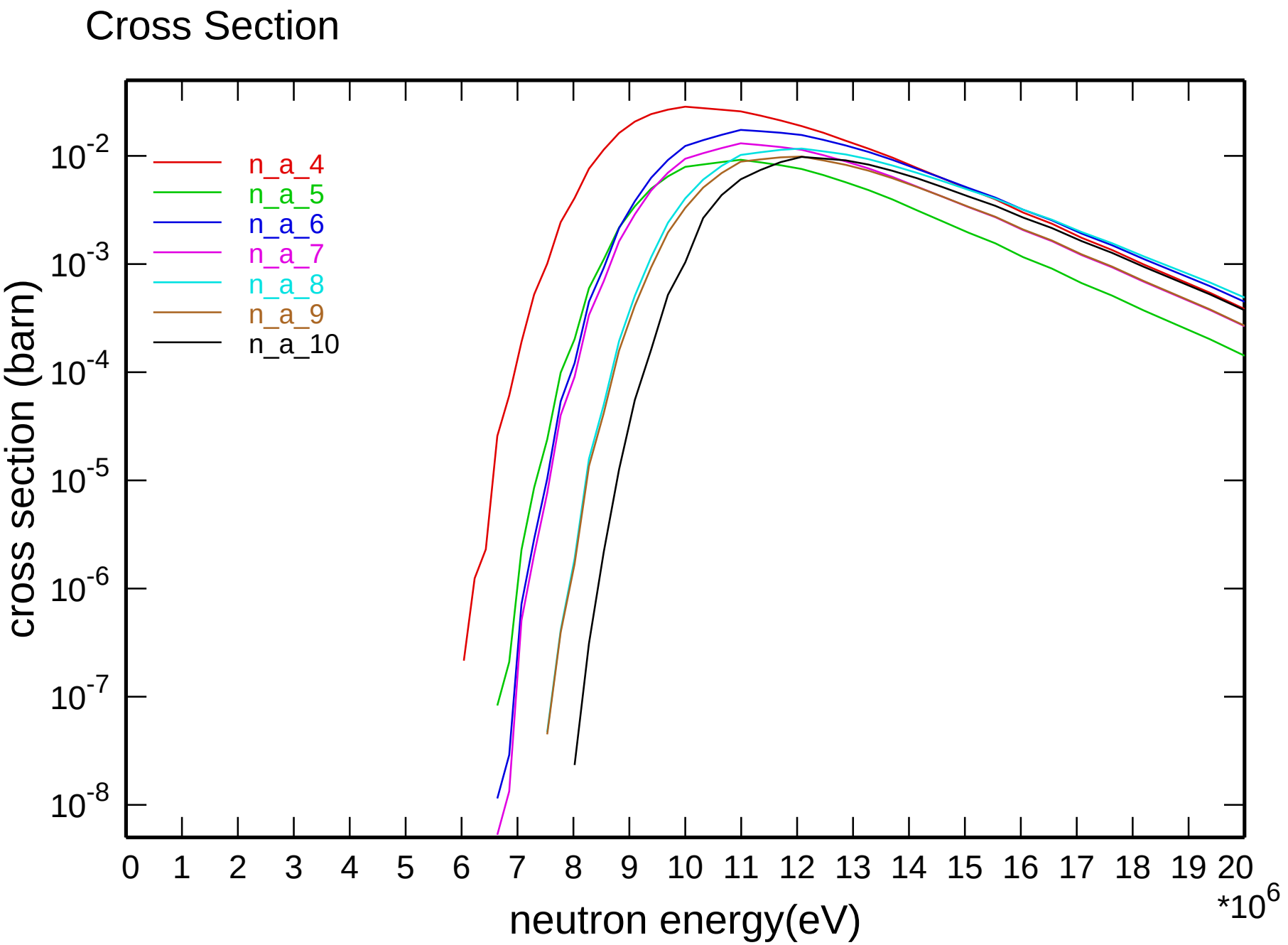

Cross Section
n_n_5
n_n_6
n_n_7
n_n_8
n_n_9
n_n_10
n_n_11
cross section (barn)
10-2
10-3
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^6
neutron energy(eV)

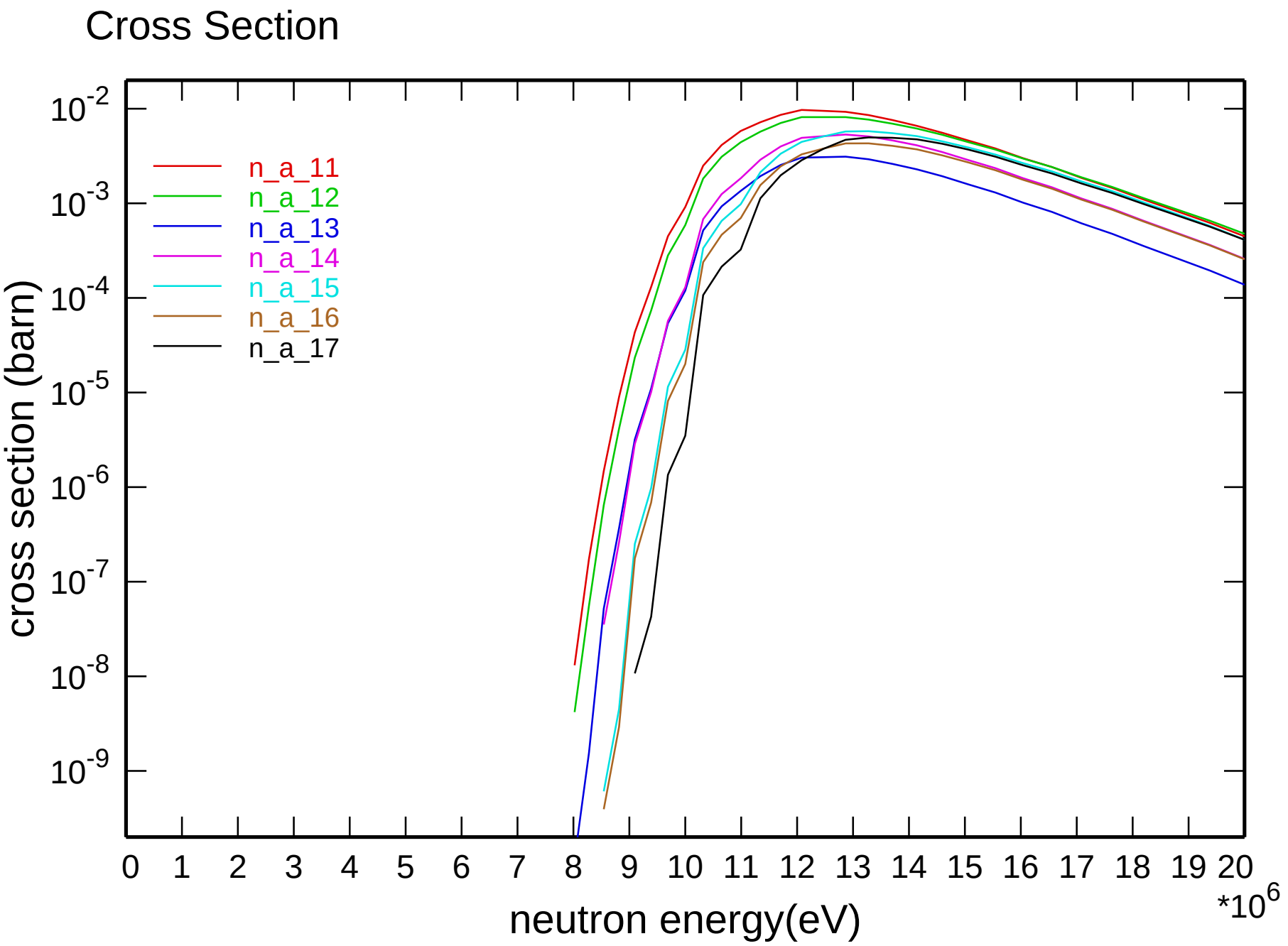

Cross Section
cross section (barn)
neutron energy(eV)
*10^6
n_n_12
n_n_13
n_n_14
n_n_15
n_n_16
n_n_cont
n_n_tot

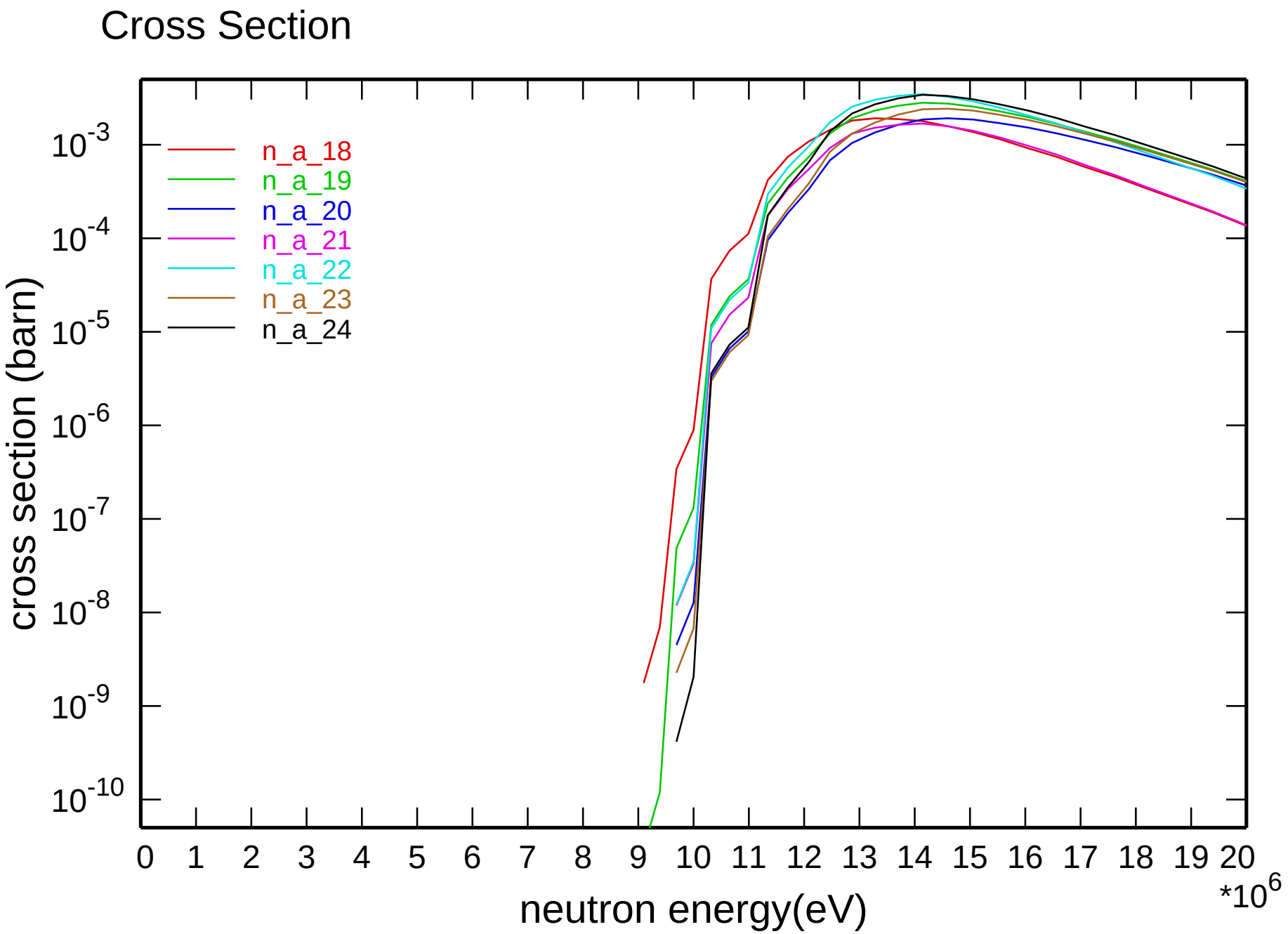

Cross Section
cross section (barn)
10-1
10-2
10-3
10-4
10-5
10-6
n_p_0
n_p_1
n_p_2
n_p_3
n_p_4
n_p_5
n_p_6
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^6
neutron energy(eV)

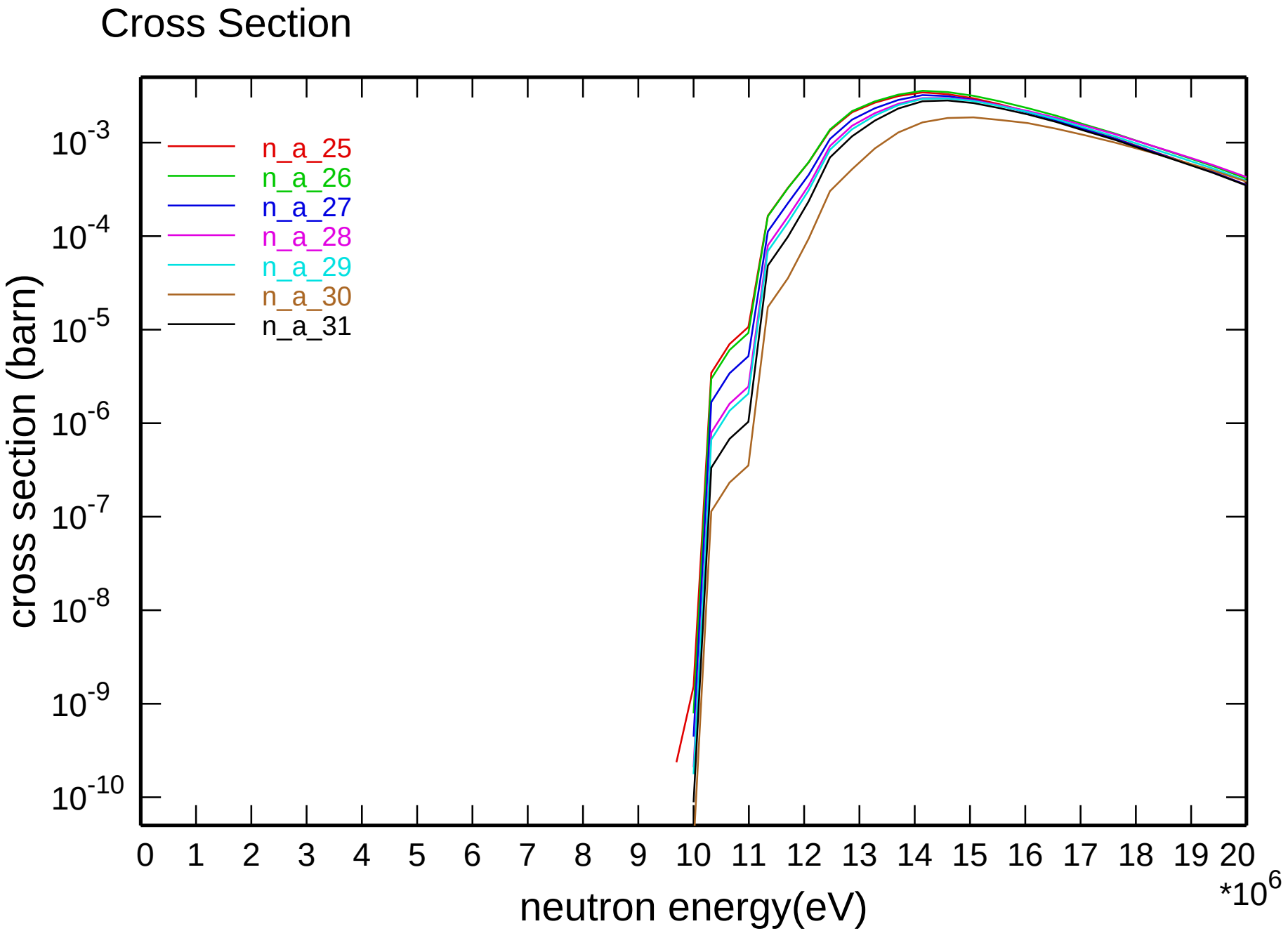

Cross Section
cross section (barn)
neutron energy(eV)
*10^6
n_p_7
n_p_8
n_p_9
n_p_10
n_p_11
n_p_12
n_p_13

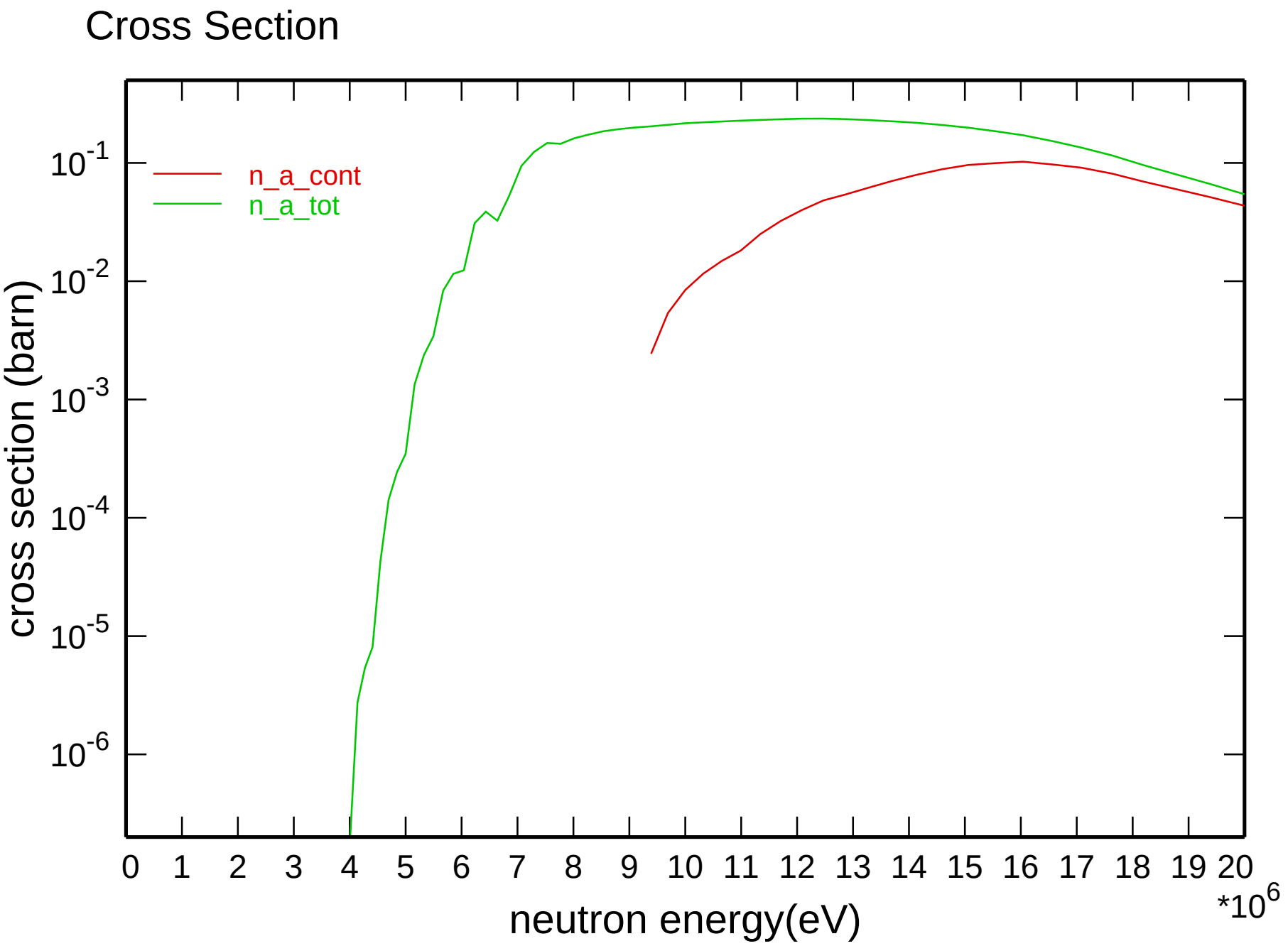

Cross Section
n_p_14
n_p_cont
n_p_tot
n_a_0
n_a_1
n_a_2
n_a_3
cross section (barn)
10-1
10-2
10-3
10-4
10-5
10-6
10-7
10-8
10-9
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^6
neutron energy(eV)

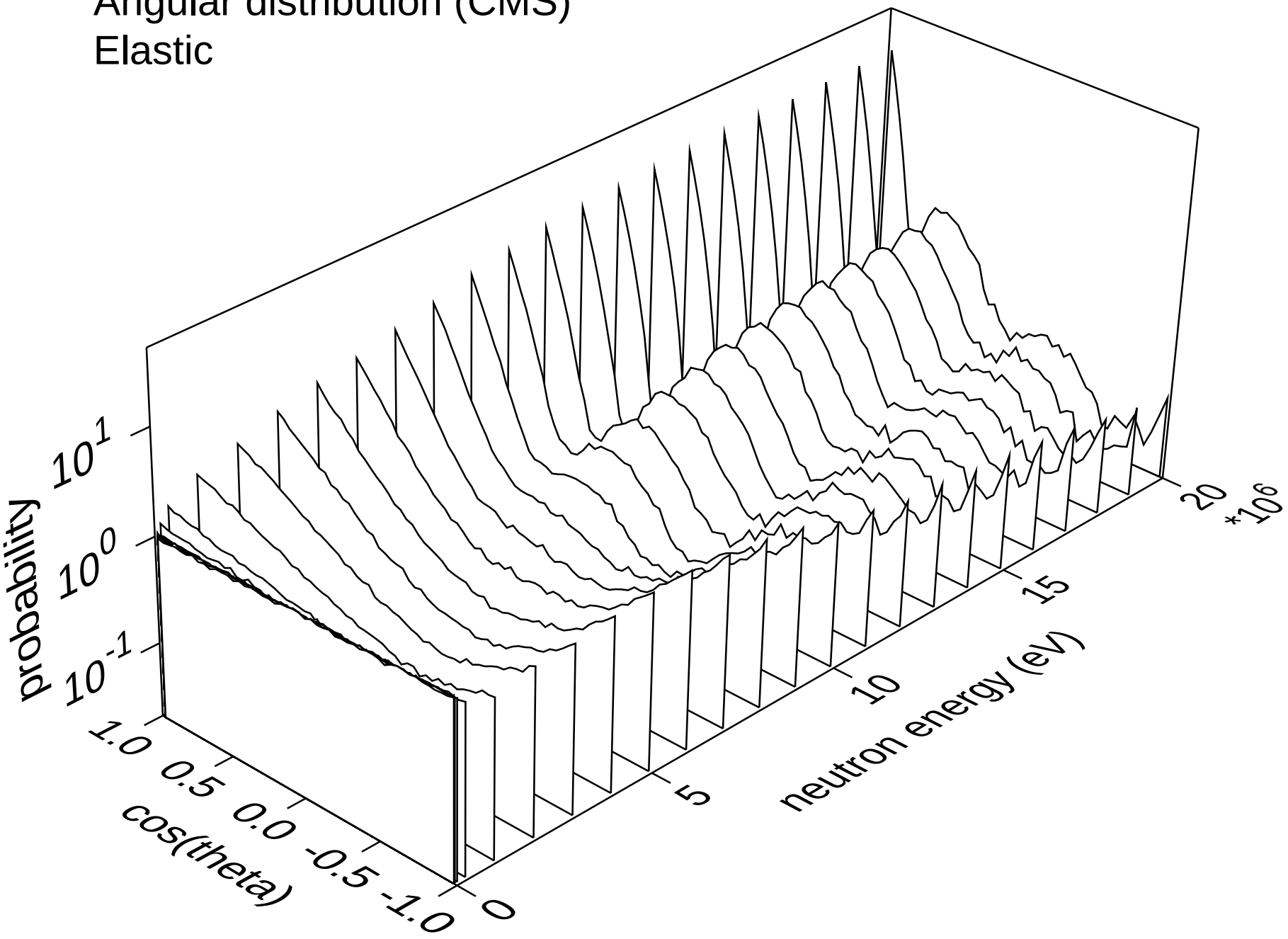

Cross Section
cross section (barn)
neutron energy(eV)
*10^6
n_a_4
n_a_5
n_a_6
n_a_7
n_a_8
n_a_9
n_a_10
10^-2
10^-3
10^-4
10^-5
10^-6
10^-7
10^-8
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

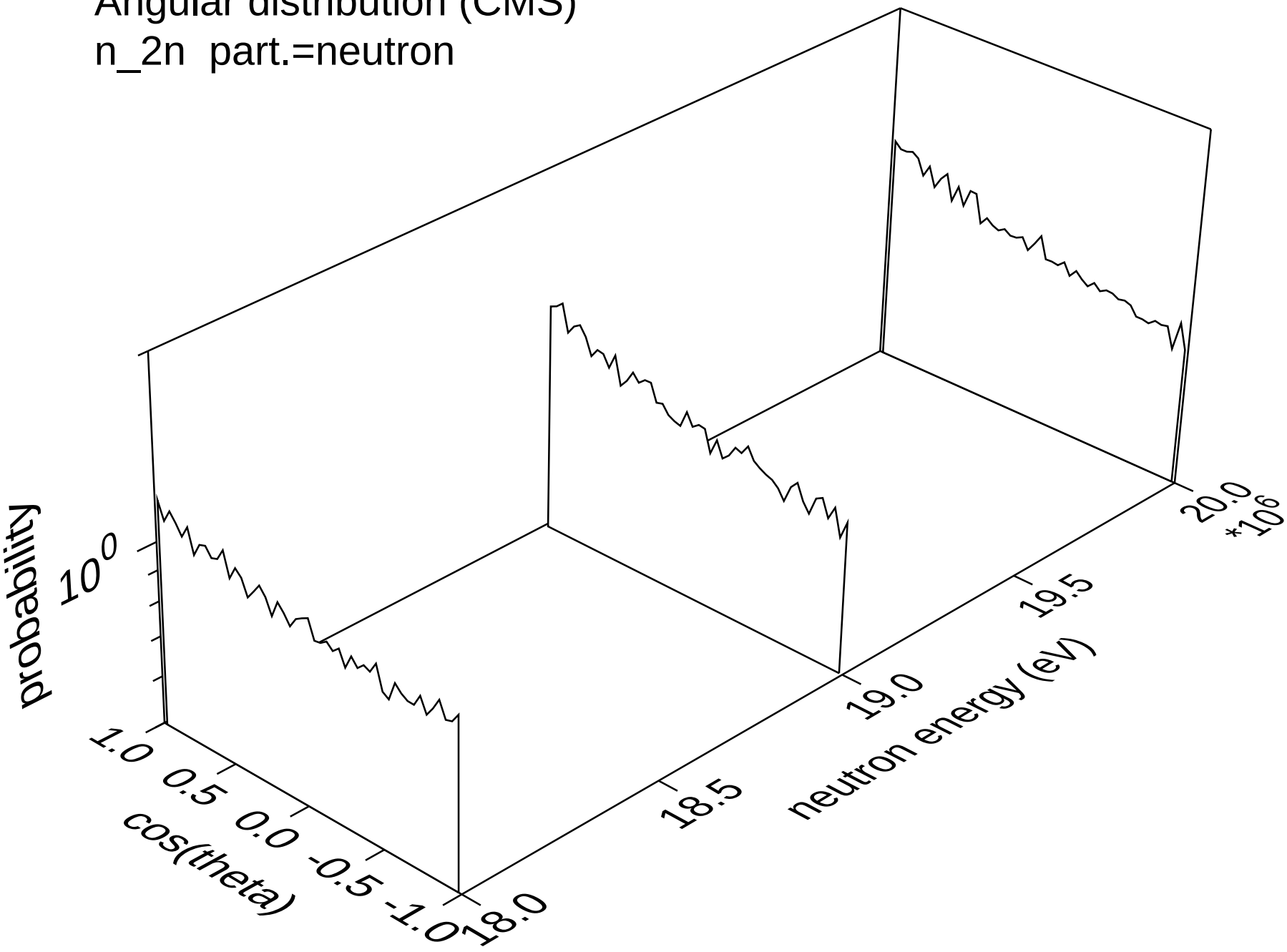

Cross Section
cross section (barn)
10-2
10-3
10-4
10-5
10-6
10-7
10-8
10-9
n_a_11
n_a_12
n_a_13
n_a_14
n_a_15
n_a_16
n_a_17
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^6
neutron energy(eV)

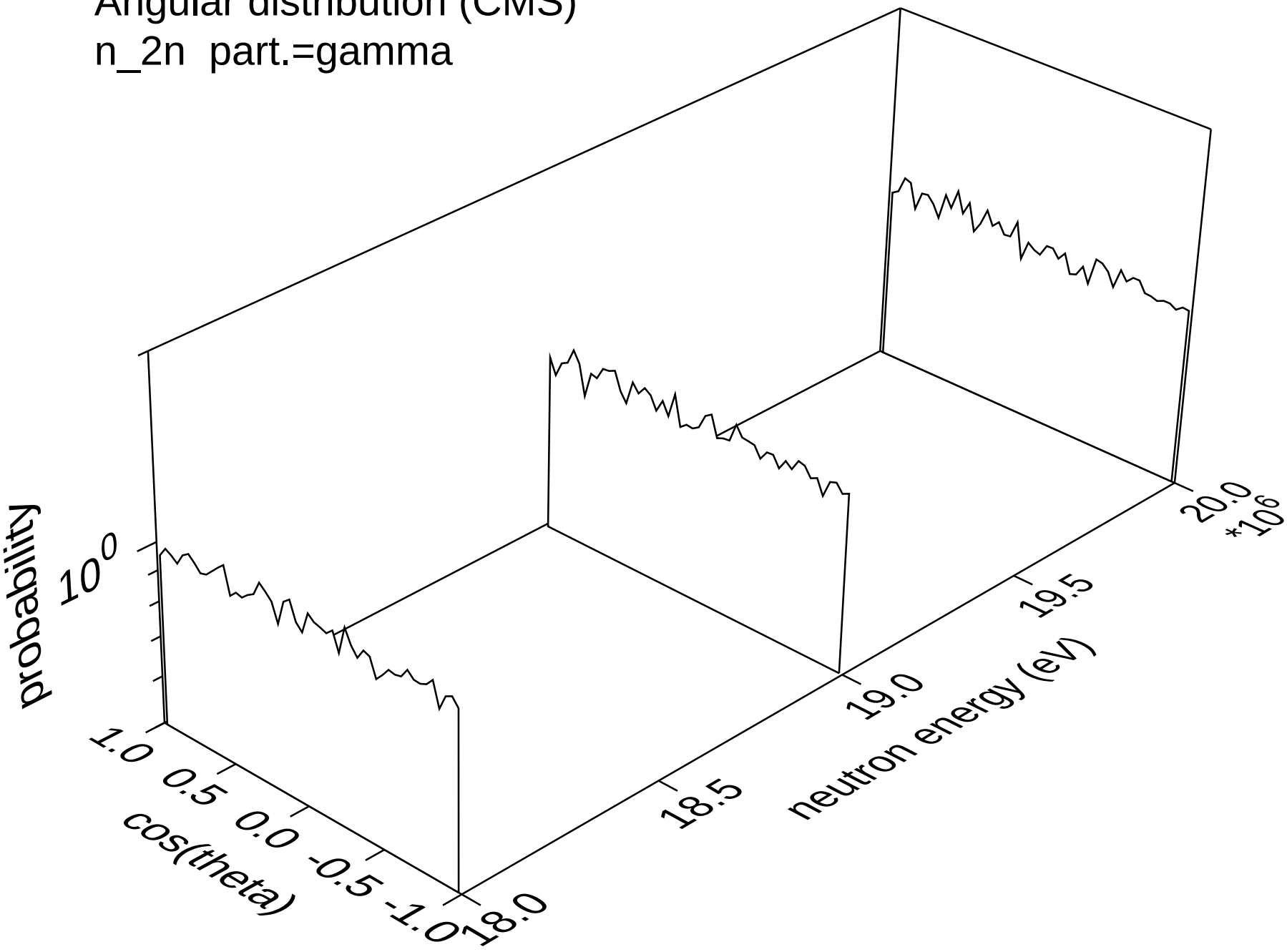

Cross Section
cross section (barn)
10-3
10-4
10-5
10-6
10-7
10-8
10-9
10-10
n_a_18
n_a_19
n_a_20
n_a_21
n_a_22
n_a_23
n_a_24
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^6
neutron energy(eV)

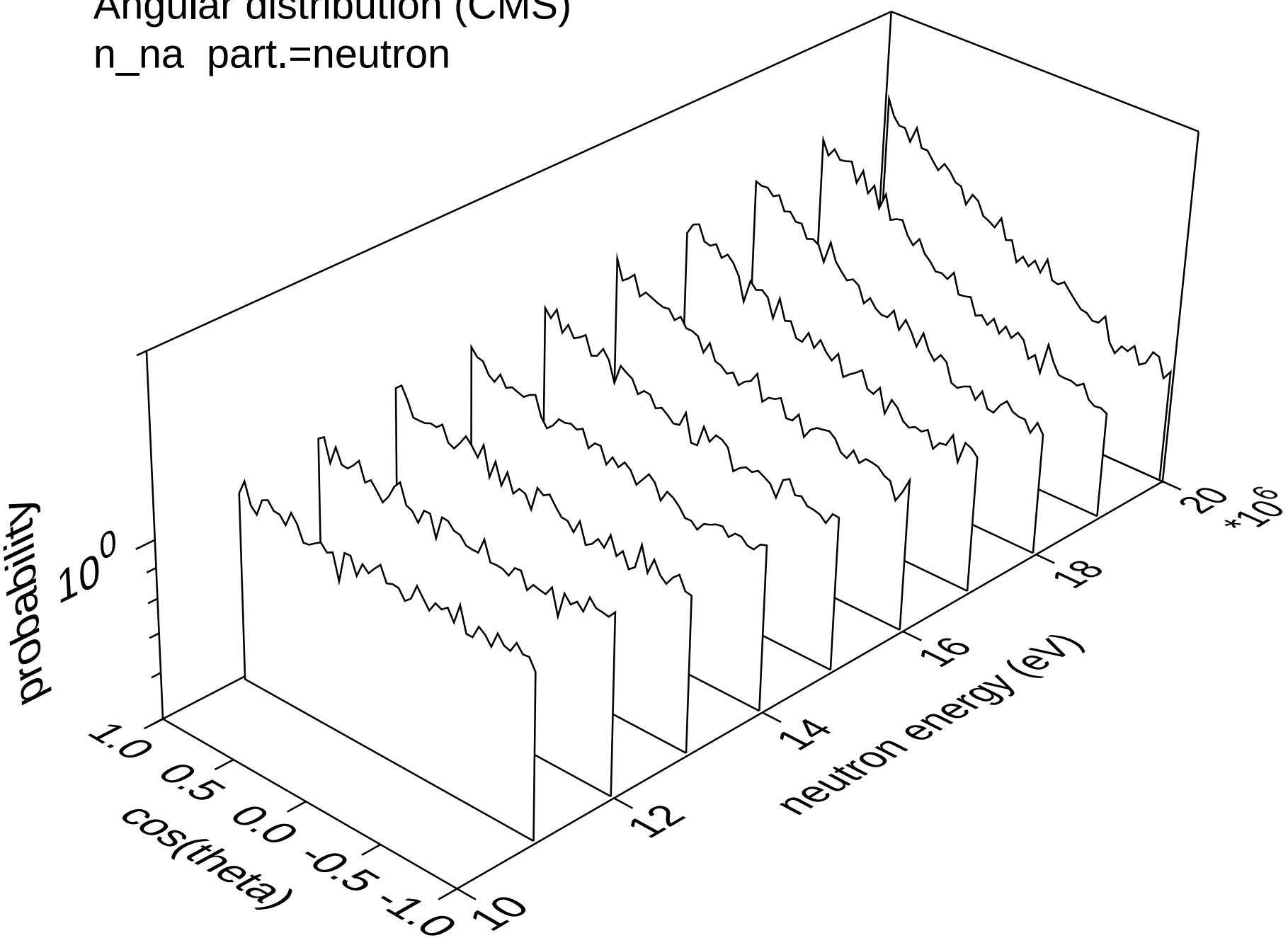

Cross Section
cross section (barn)
10-3
10-4
10-5
10-6
10-7
10-8
10-9
10-10
n_a_25
n_a_26
n_a_27
n_a_28
n_a_29
n_a_30
n_a_31
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^6
neutron energy(eV)

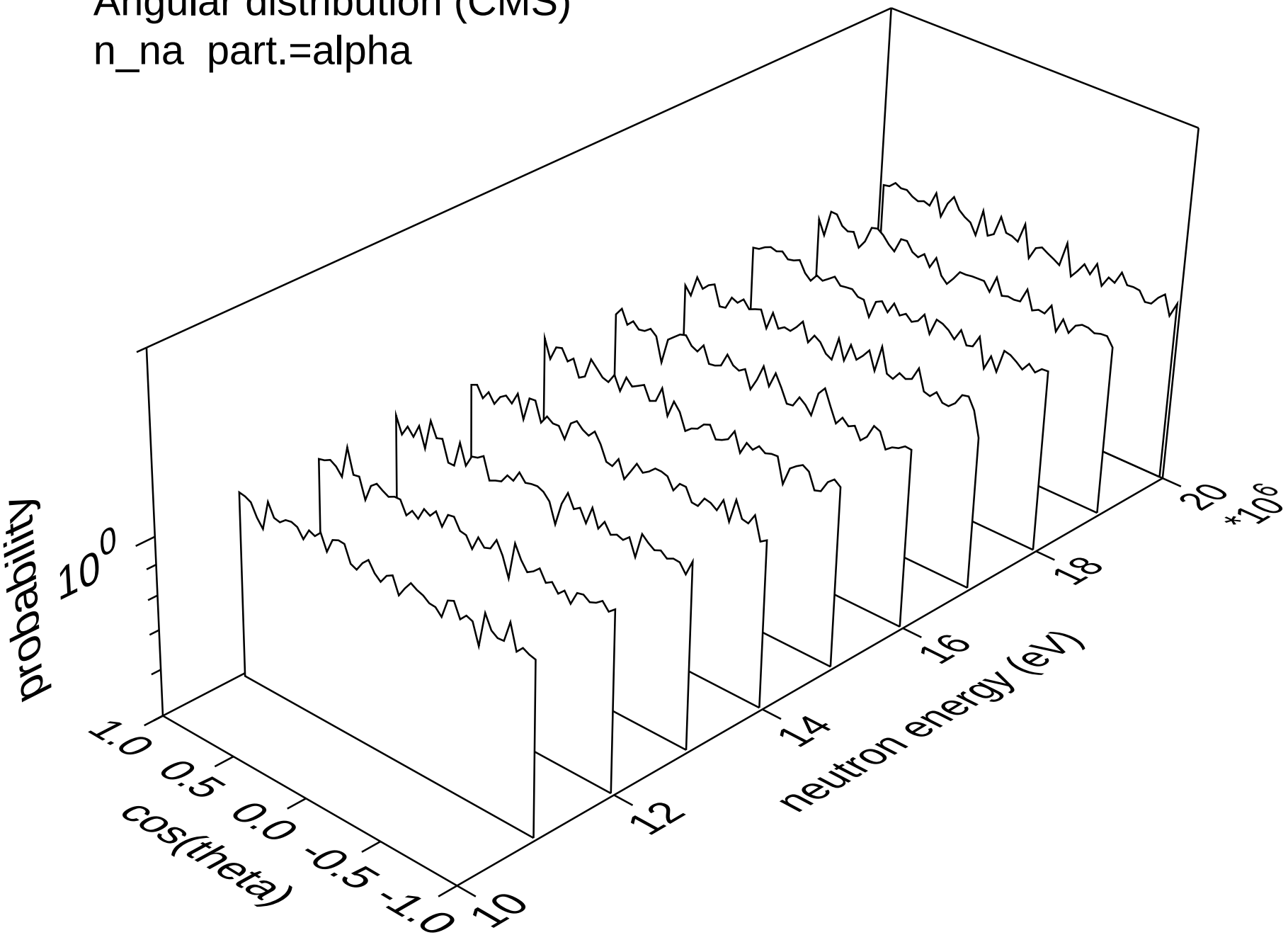

Cross Section
n_a_cont
n_a_tot
cross section (barn)
10-1
10-2
10-3
10-4
10-5
10-6
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^6
neutron energy(eV)

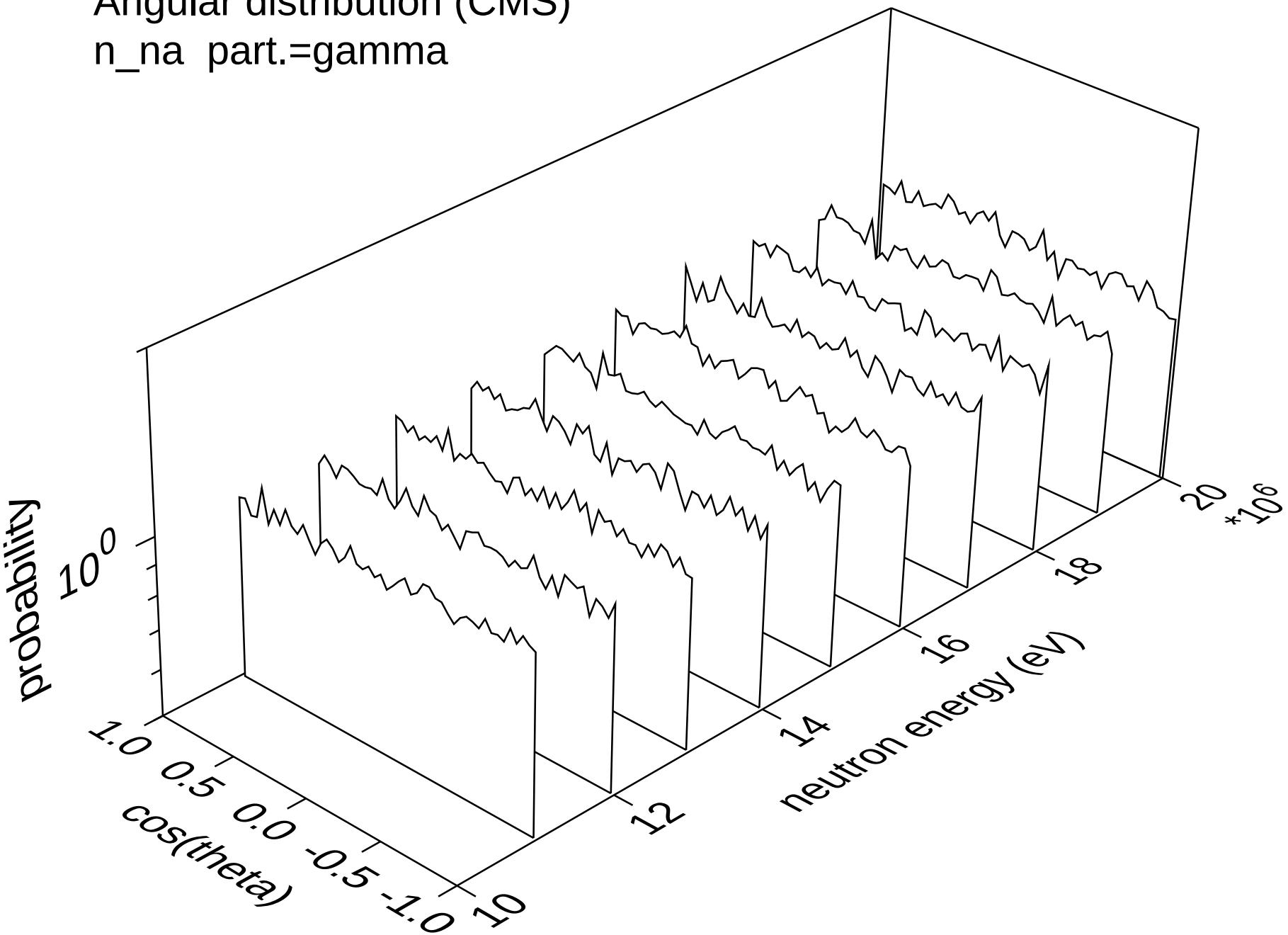

Angular distribution (CMS)
Elastic
probability
10^{1}
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

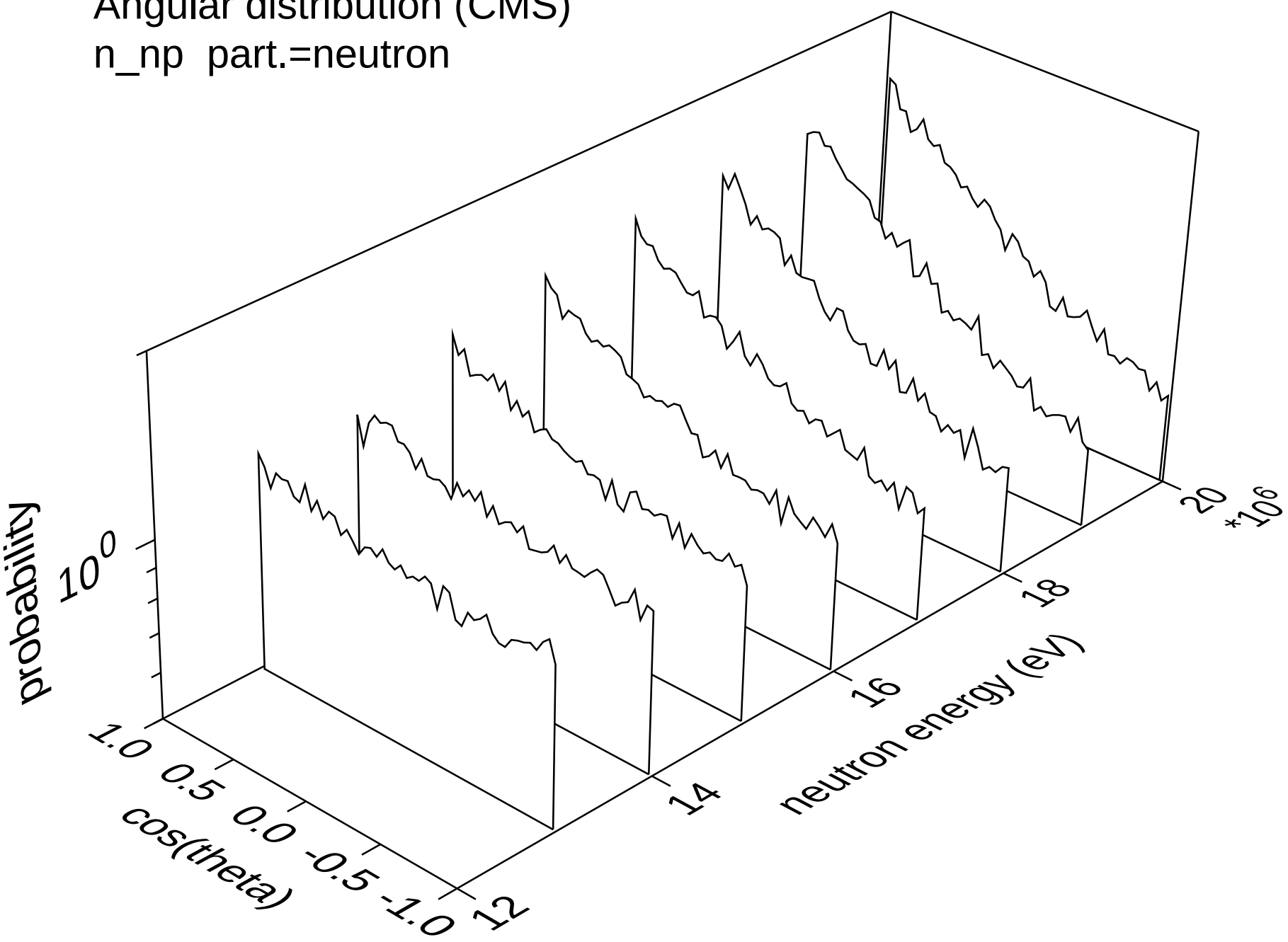

Angular distribution (CMS)
n_2n part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
18.0
18.5
19.0
19.5
20.0
*10⁶
neutron energy (eV)

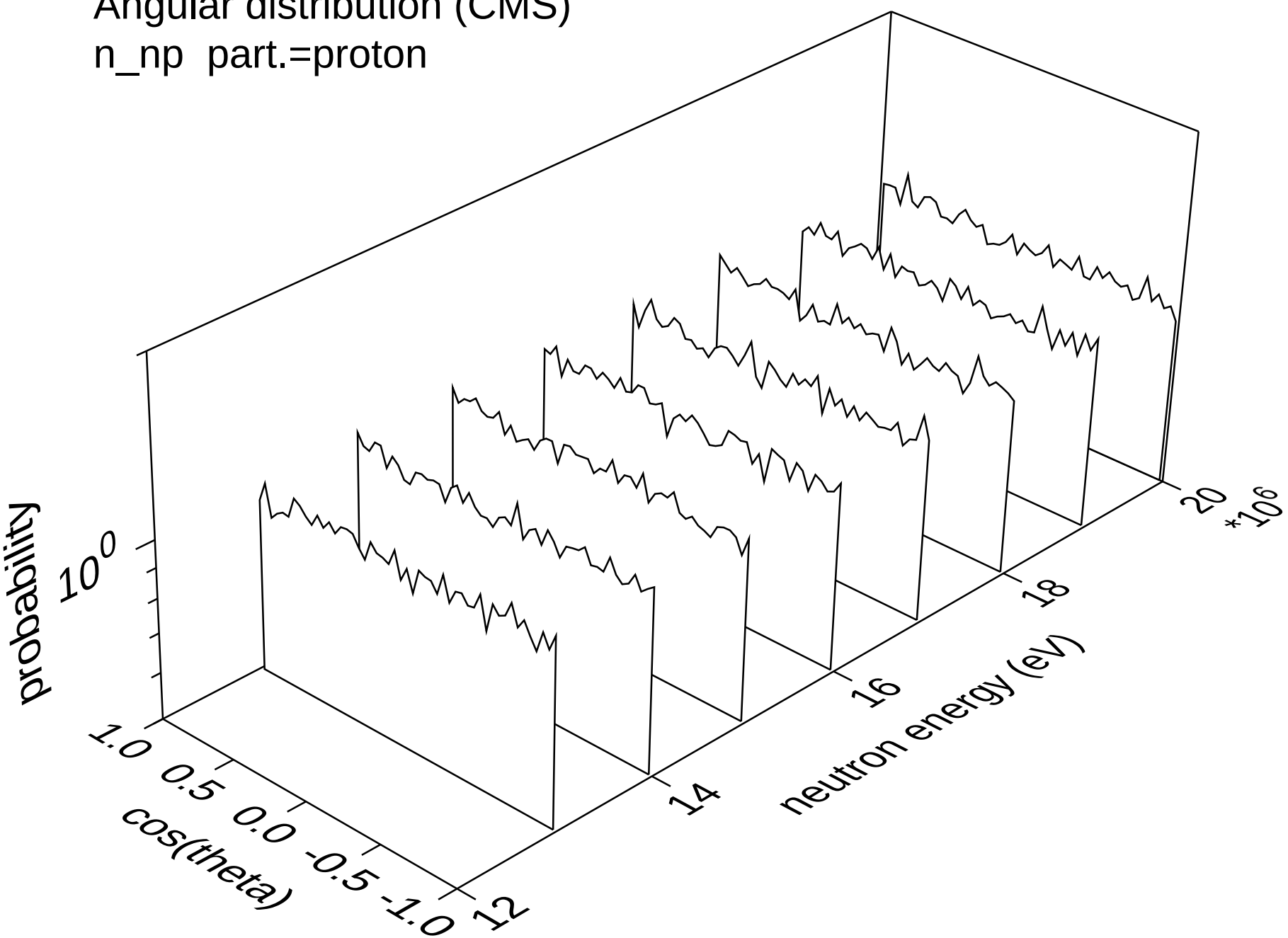

Angular distribution (CMS)
n_2n part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

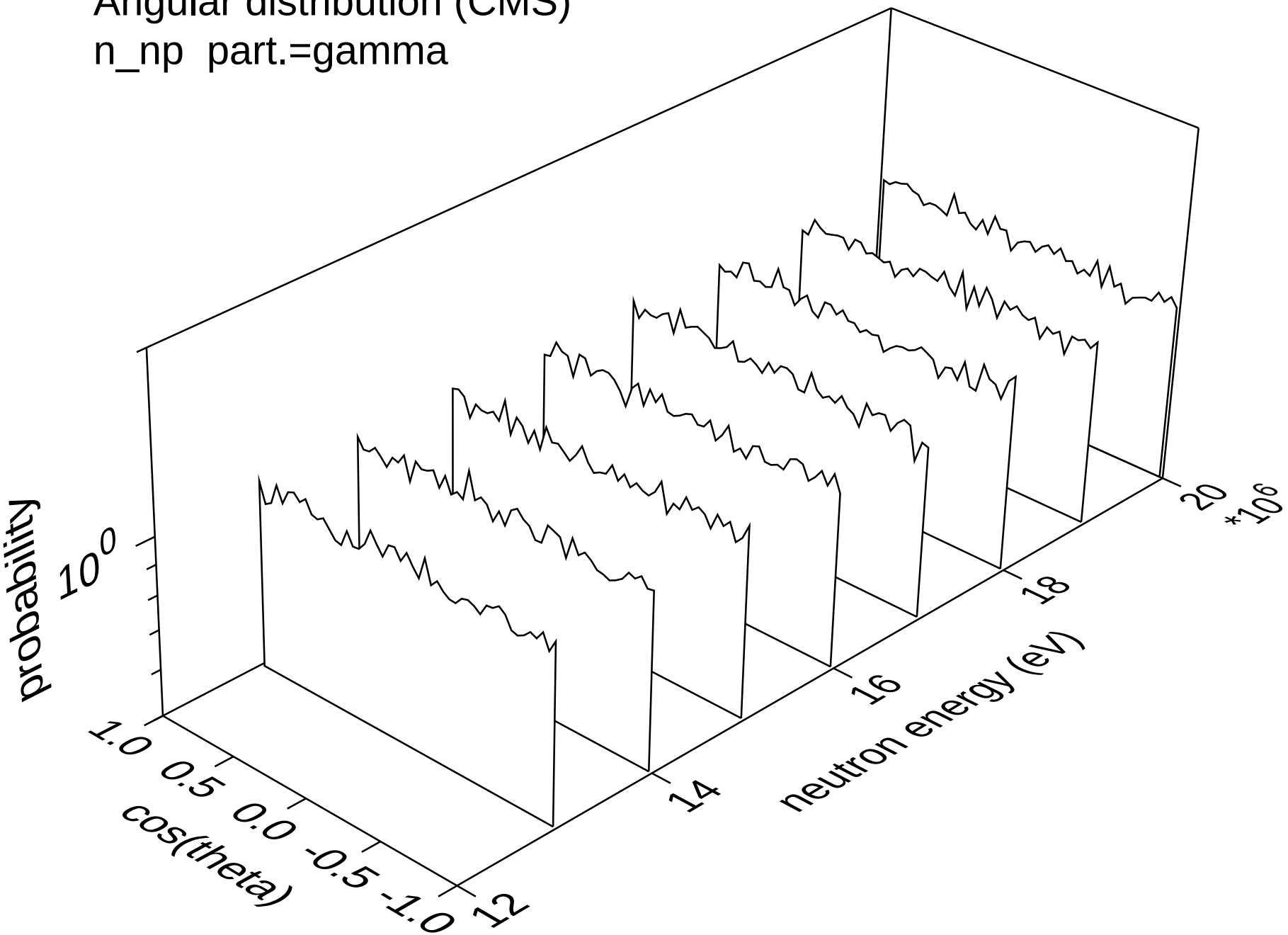

Angular distribution (CMS)
n_na part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

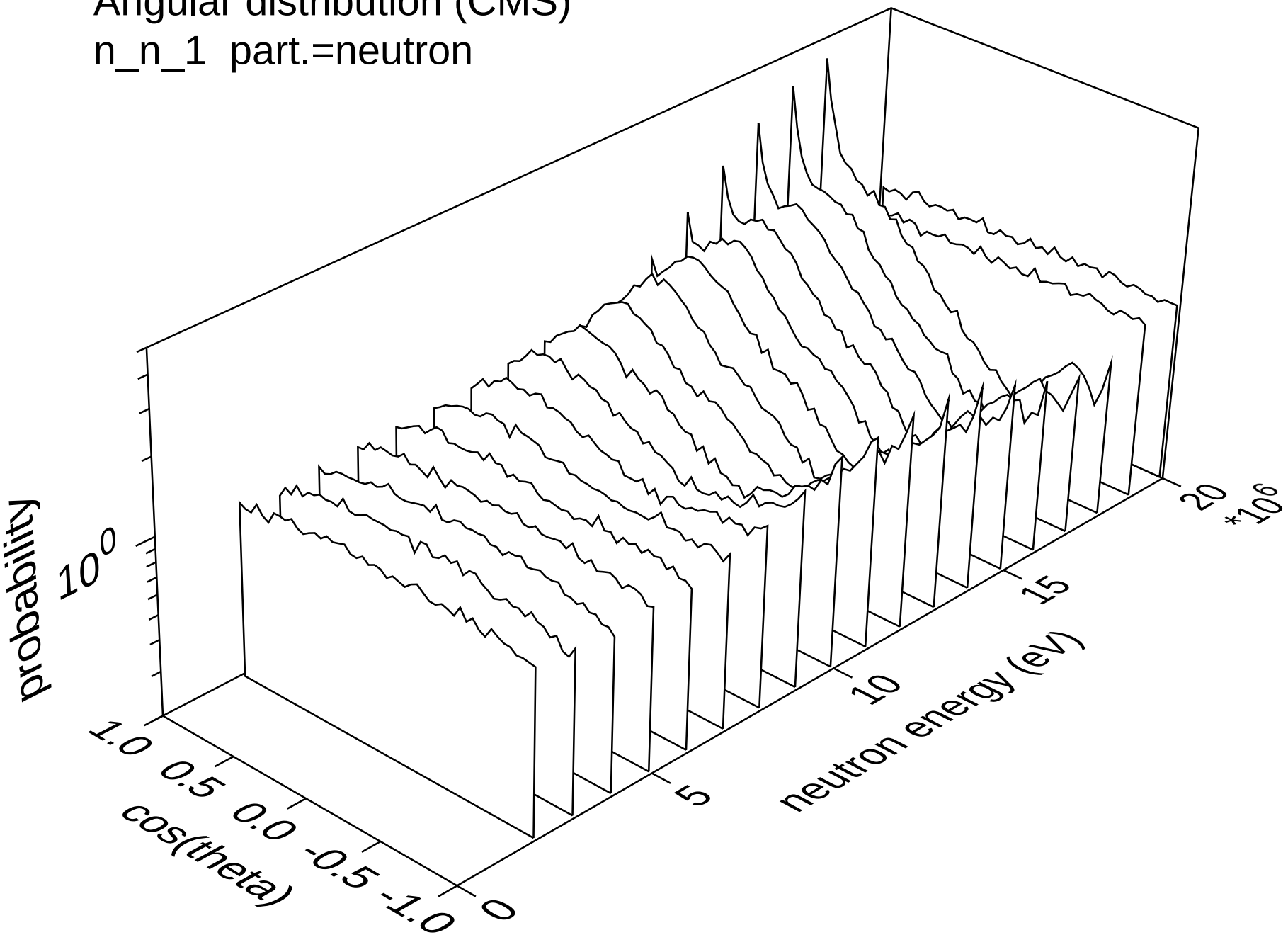

Angular distribution (CMS)
n_na part.=alpha
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

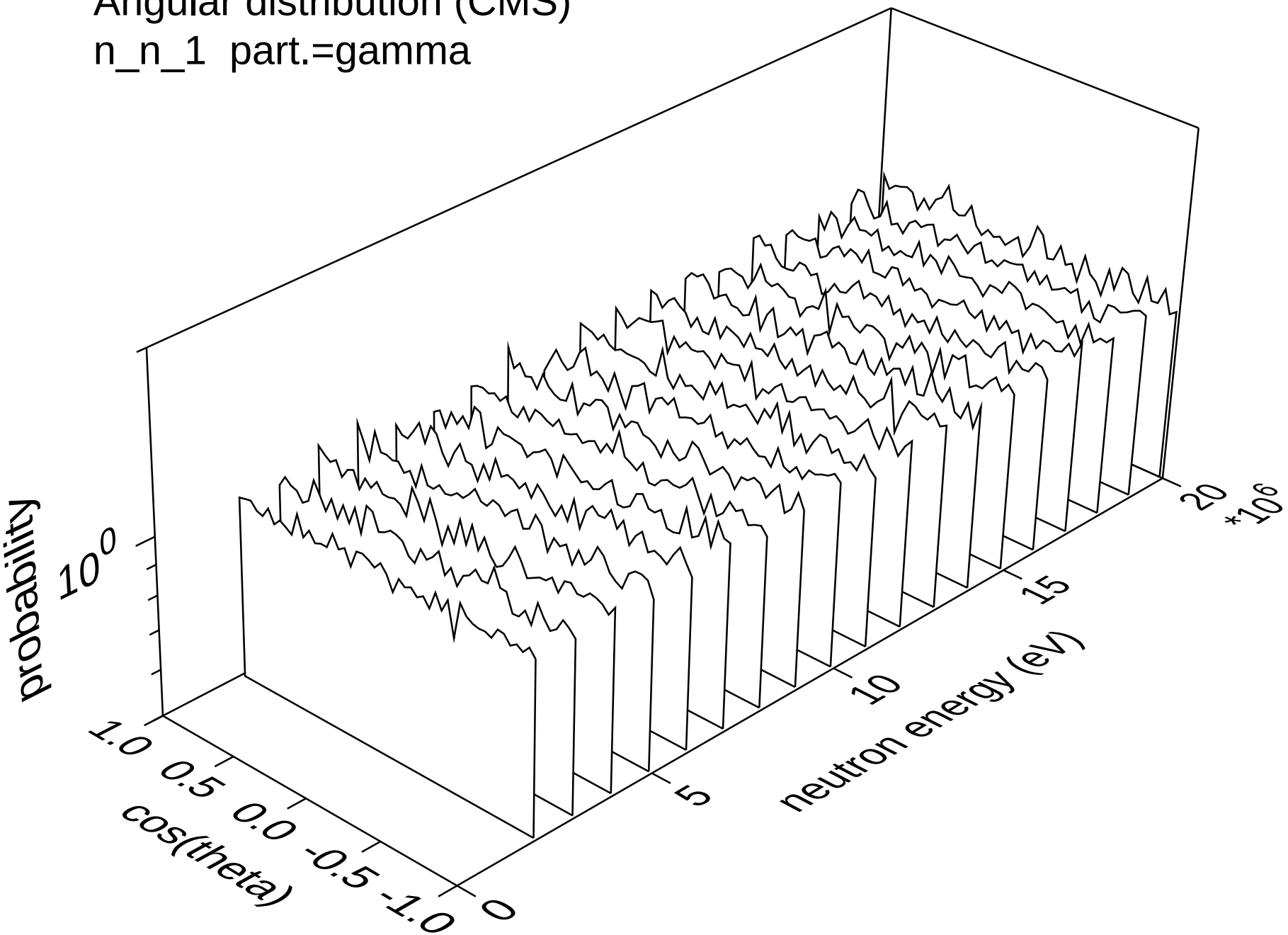

Angular distribution (CMS)
n_na part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

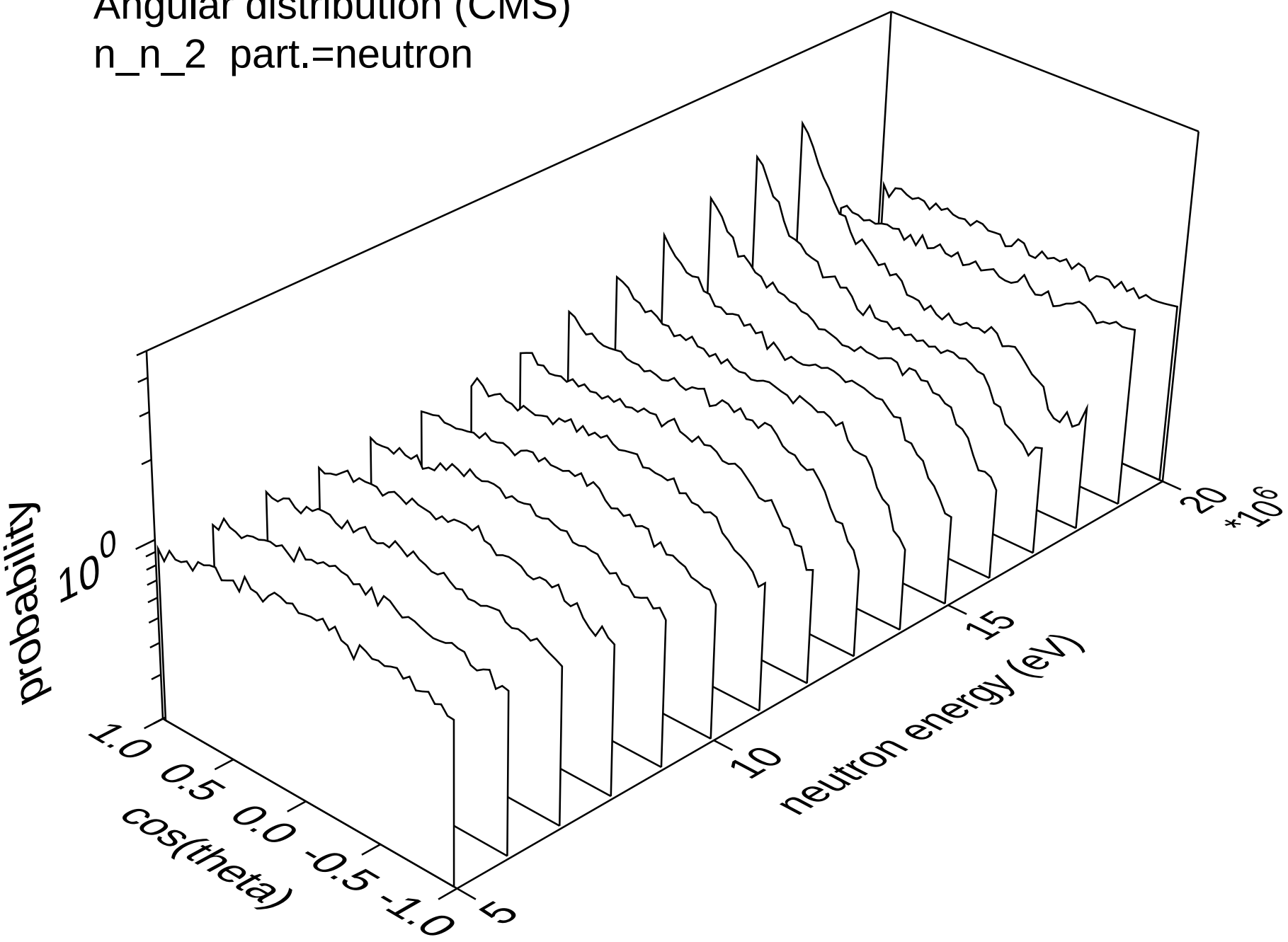

Angular distribution (CMS)
n_np part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
12
14
16
18
20
*10^6
neutron energy (eV)

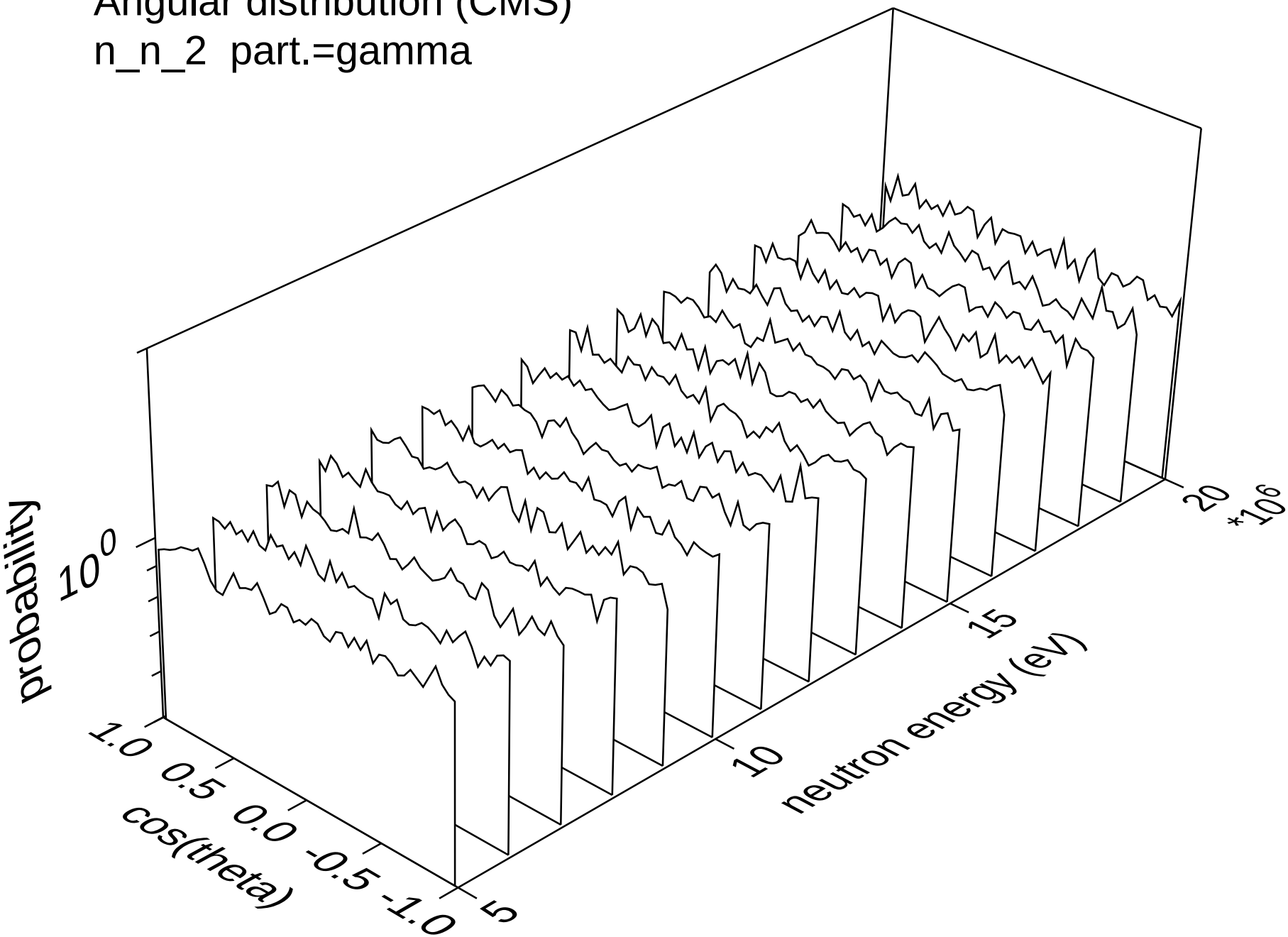

Angular distribution (CMS)
n_np part.=proton
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
12
14
16
18
20
*10^6
neutron energy (eV)

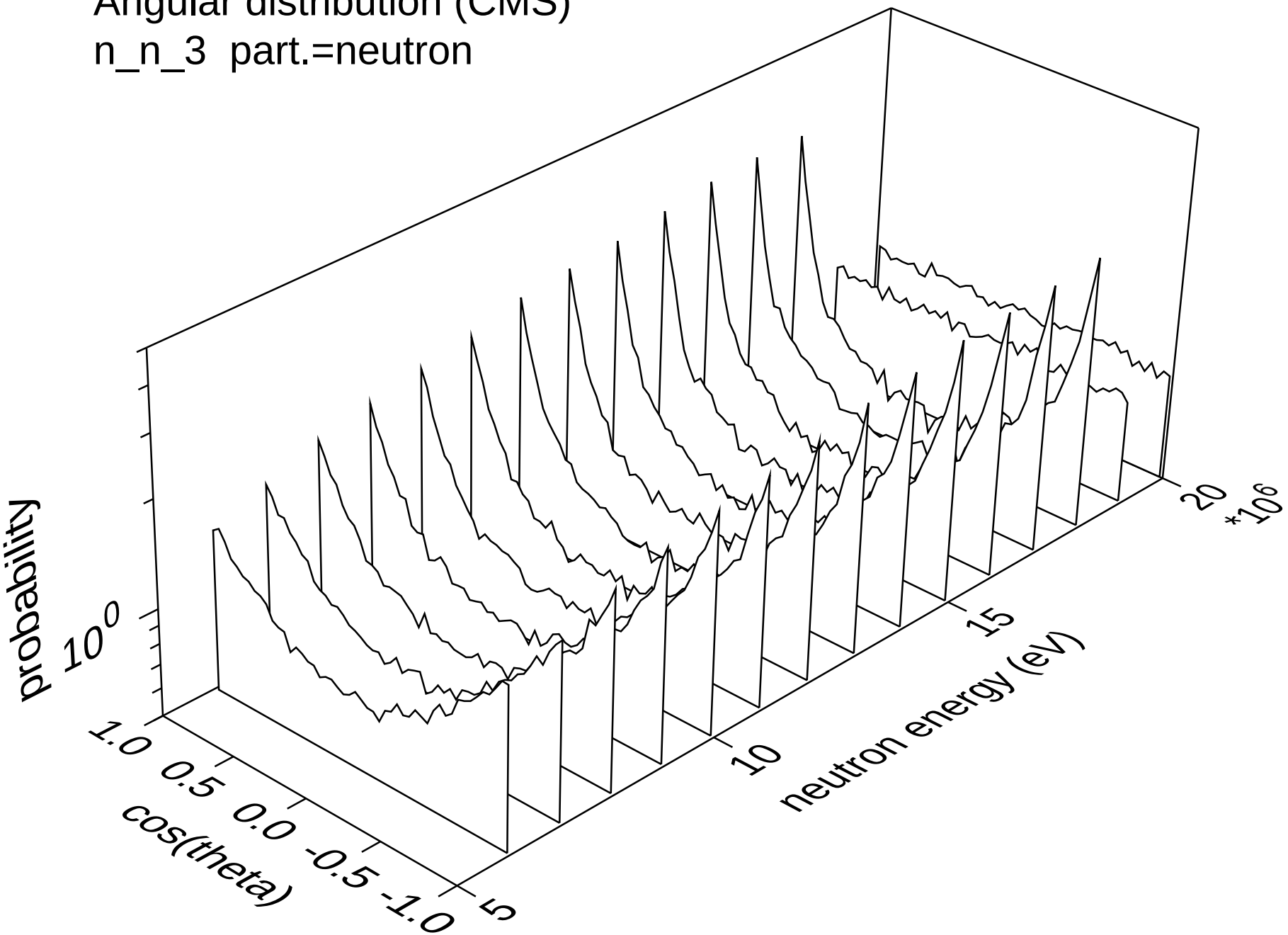

Angular distribution (CMS)
n_np part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
12
14
16
18
20
*10^6
neutron energy (eV)

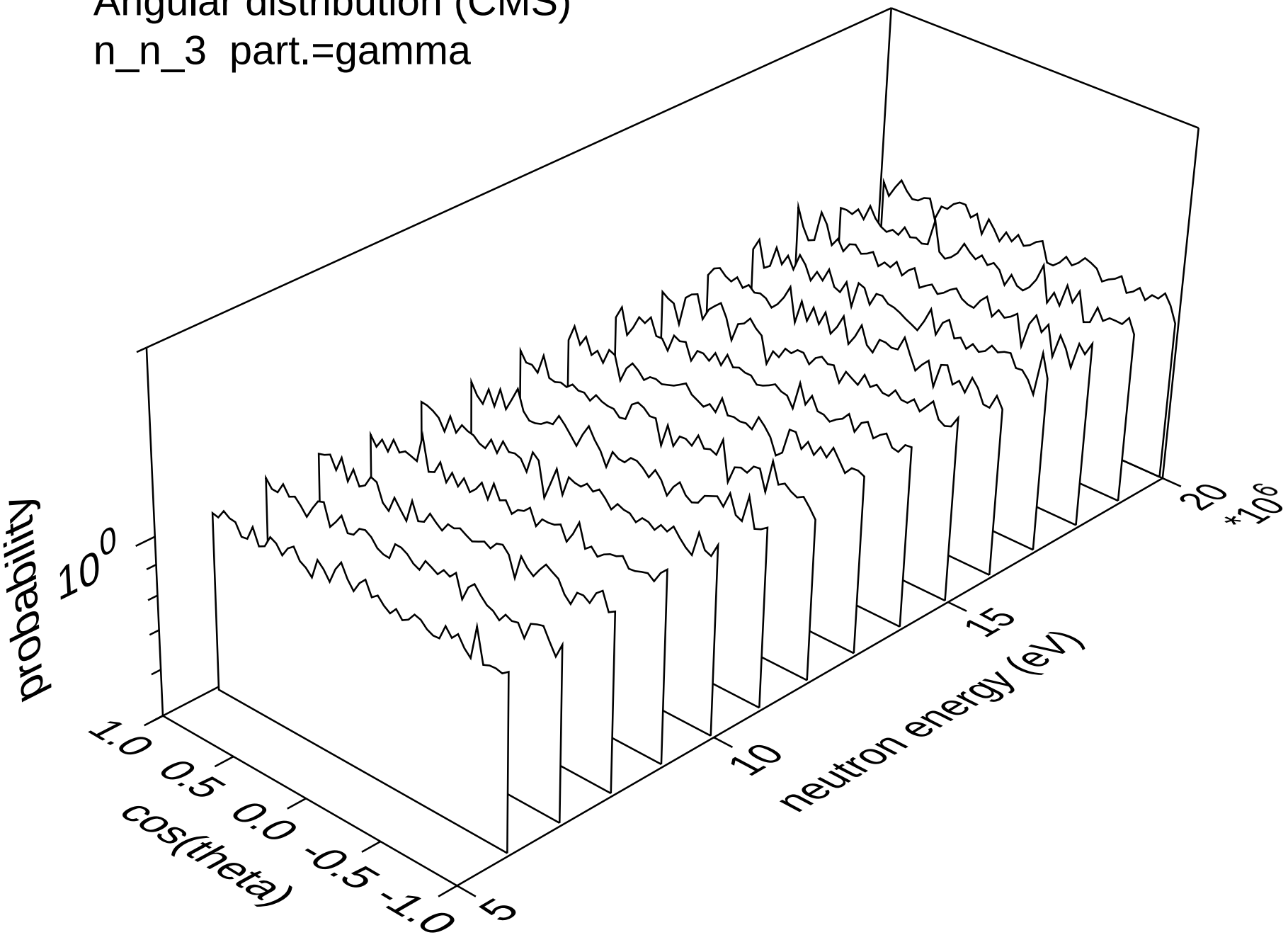

Angular distribution (CMS)
n_n_1 part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

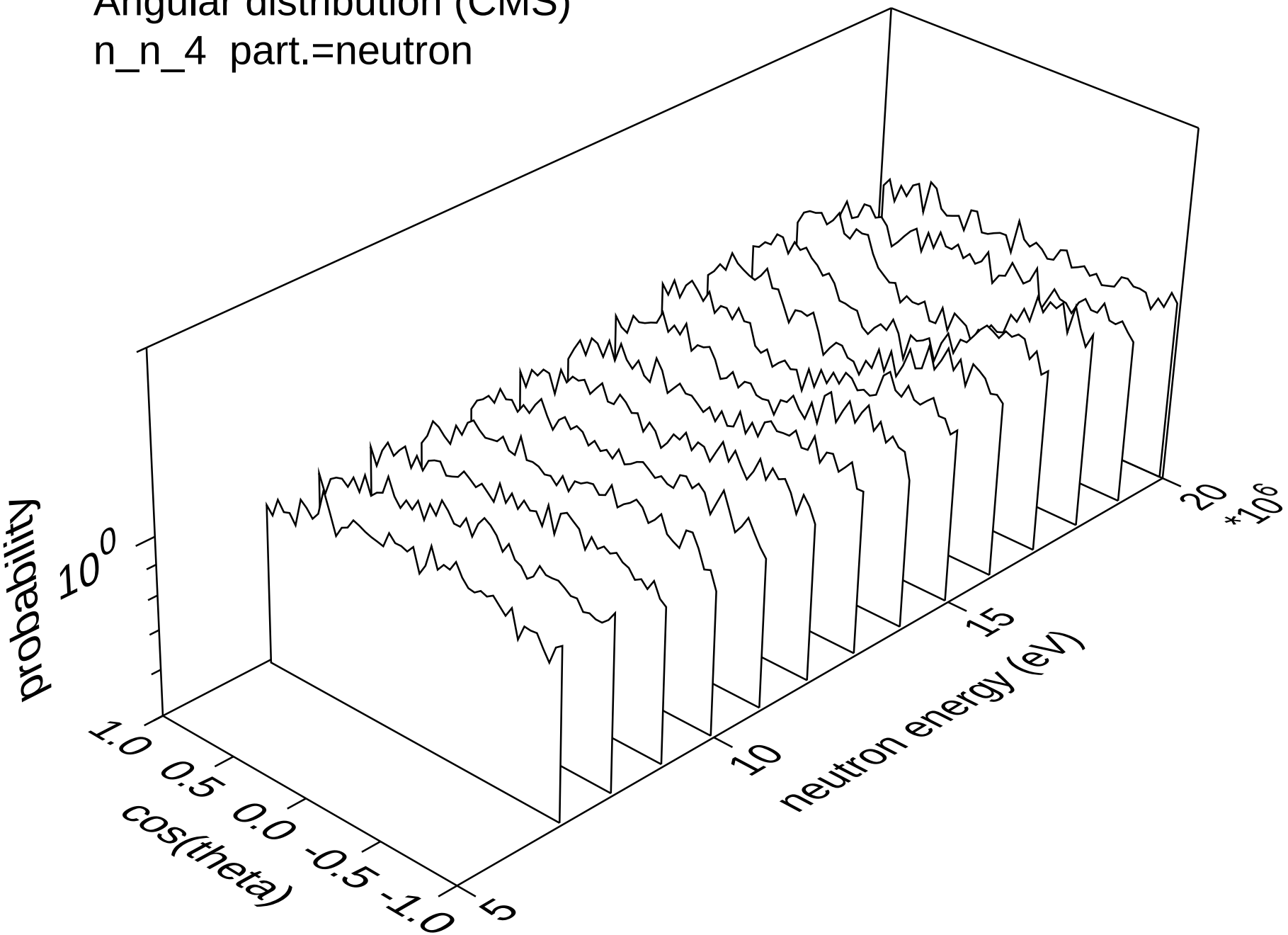

Angular distribution (CMS)
n_n_1 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

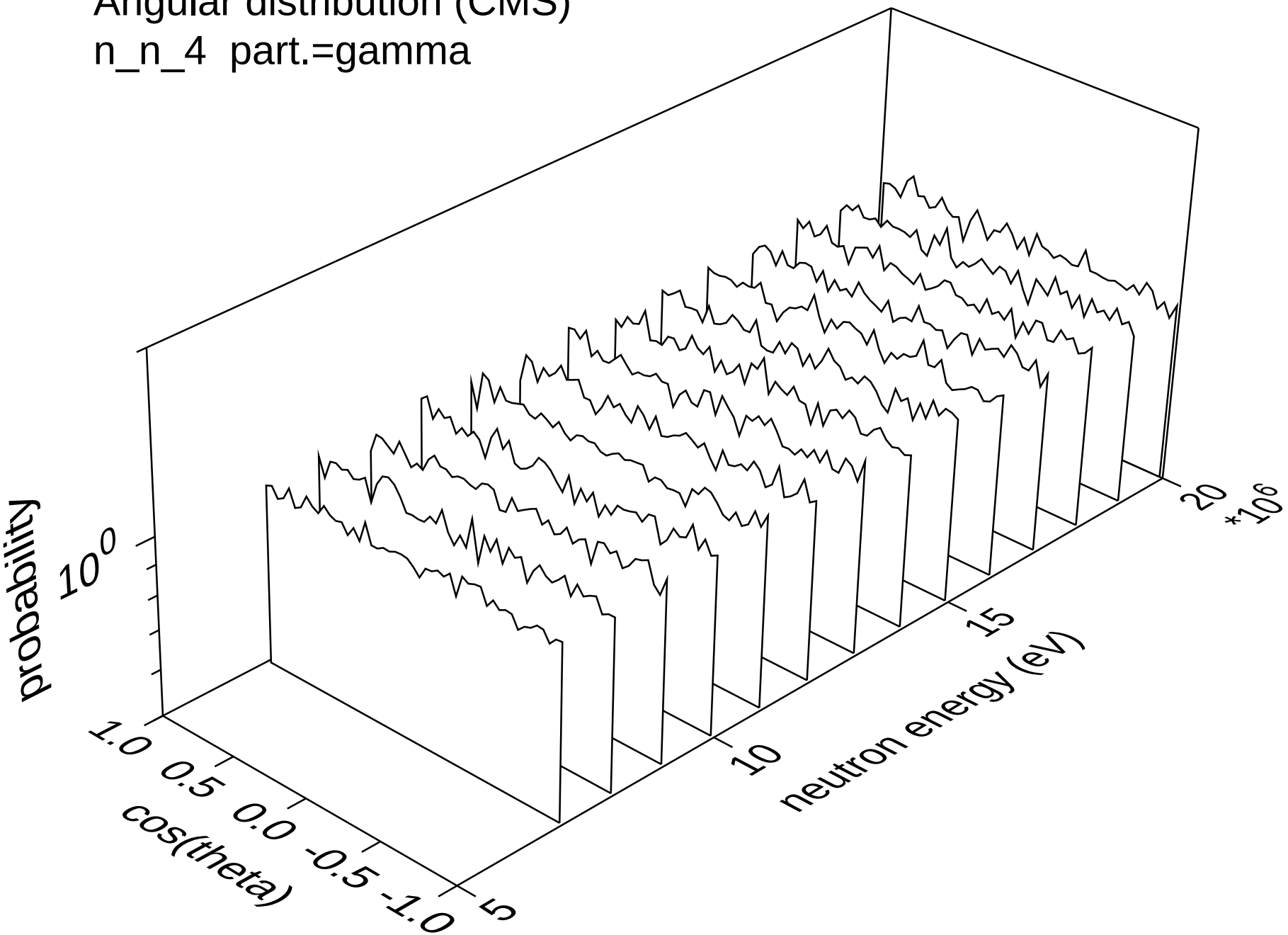

Angular distribution (CMS)
n_n_2 part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

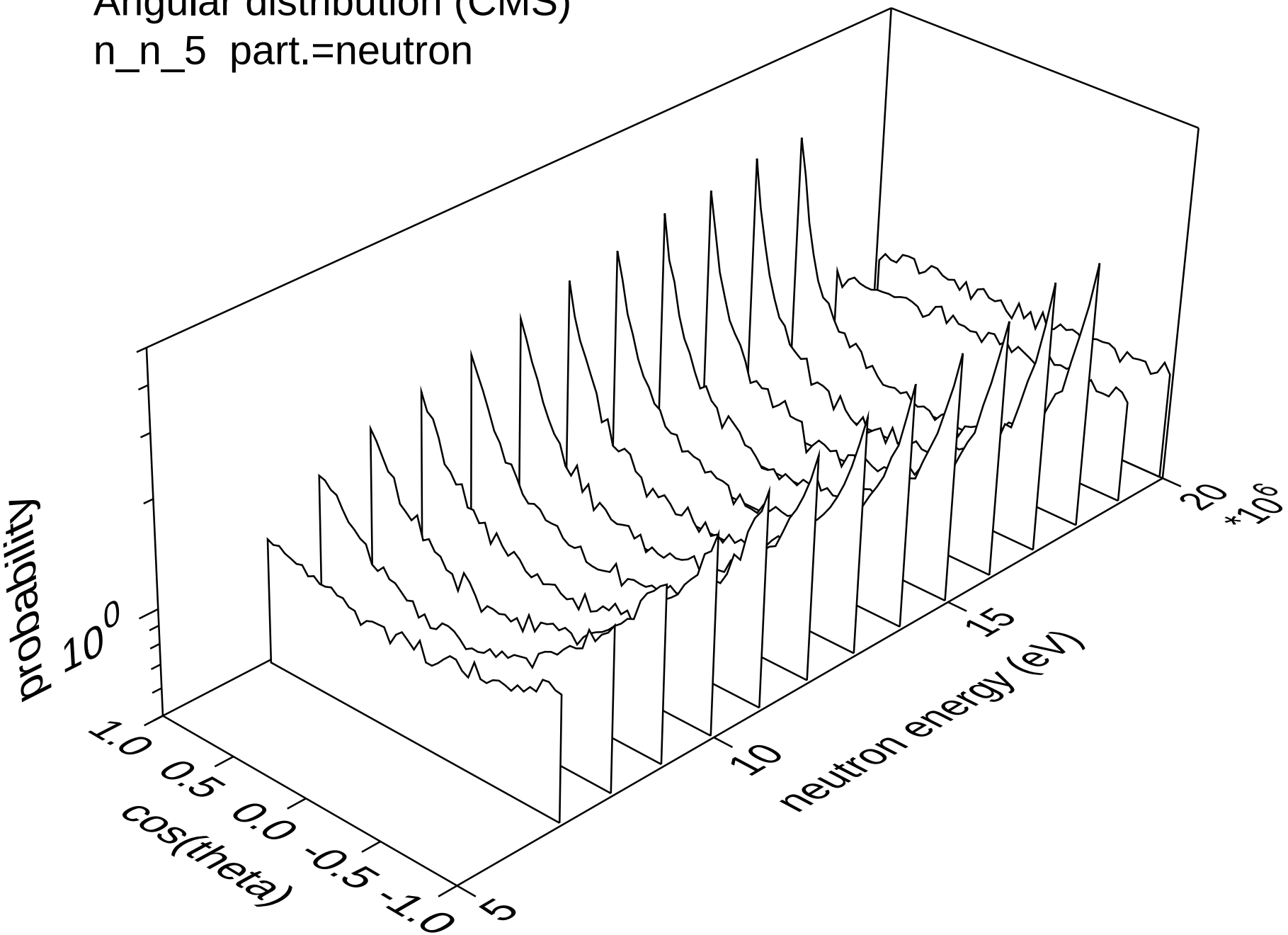

Angular distribution (CMS)
n_n_2 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

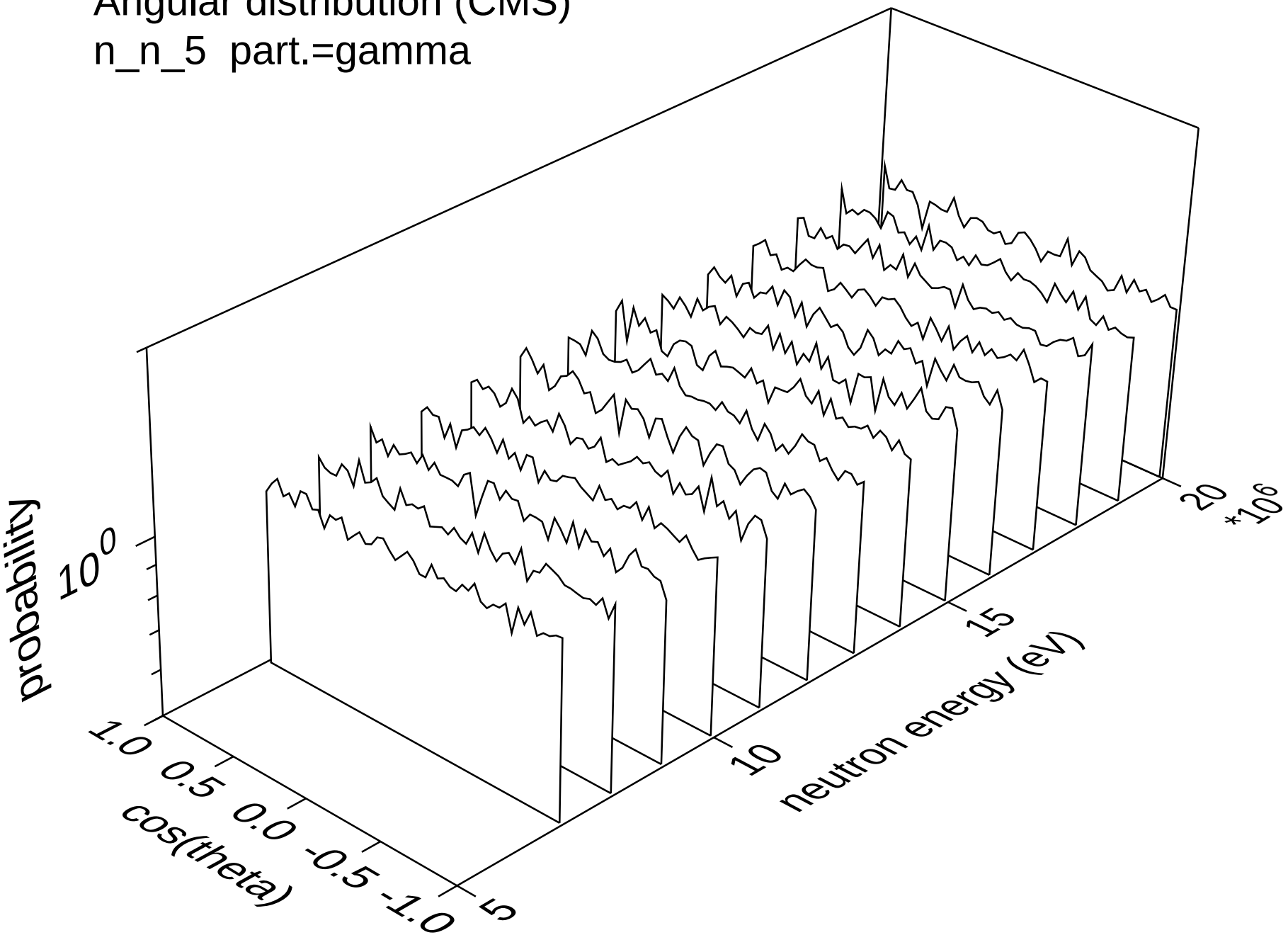

Angular distribution (CMS)
n_n_3 part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

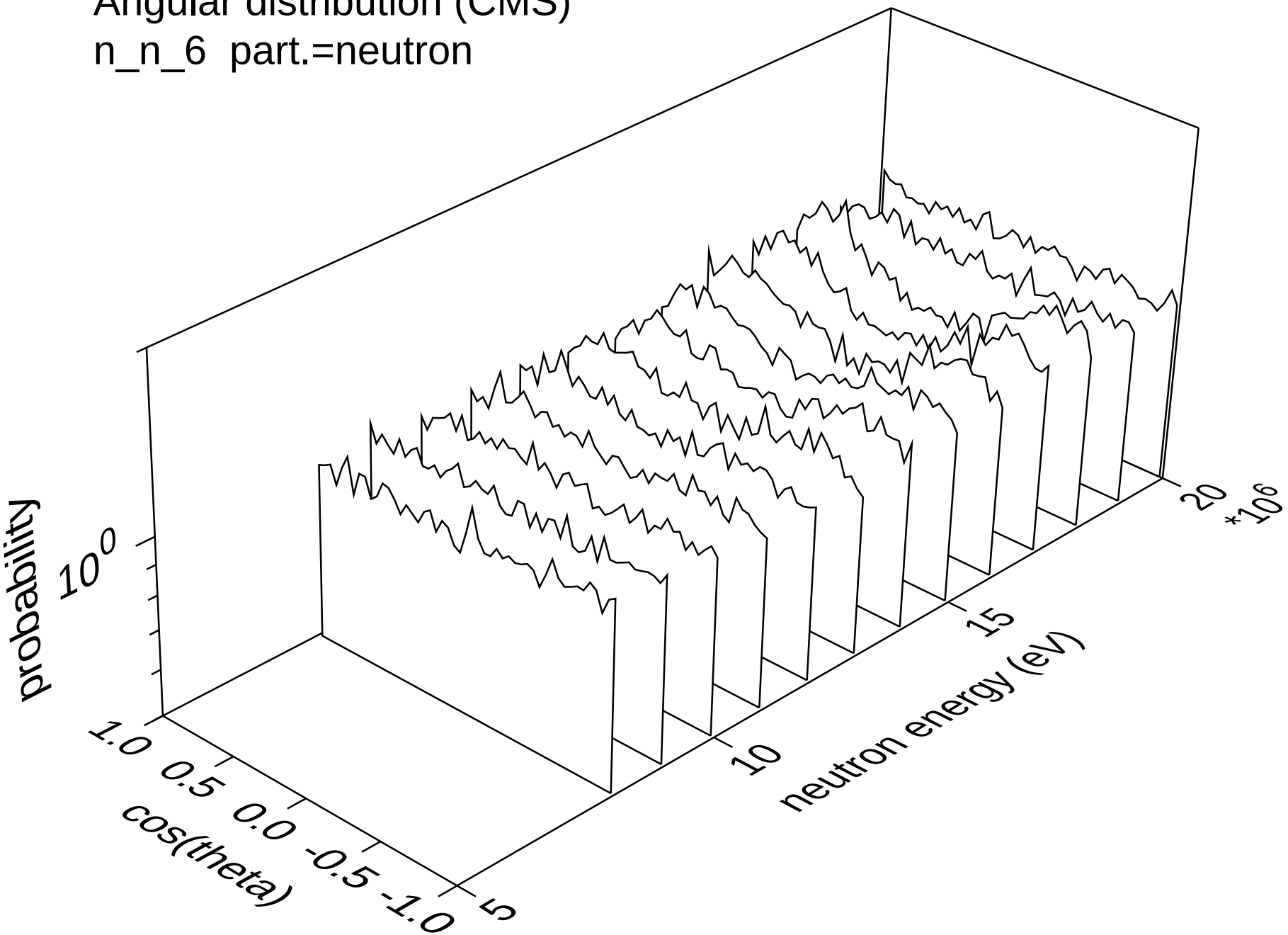

Angular distribution (CMS)
n_n_3 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

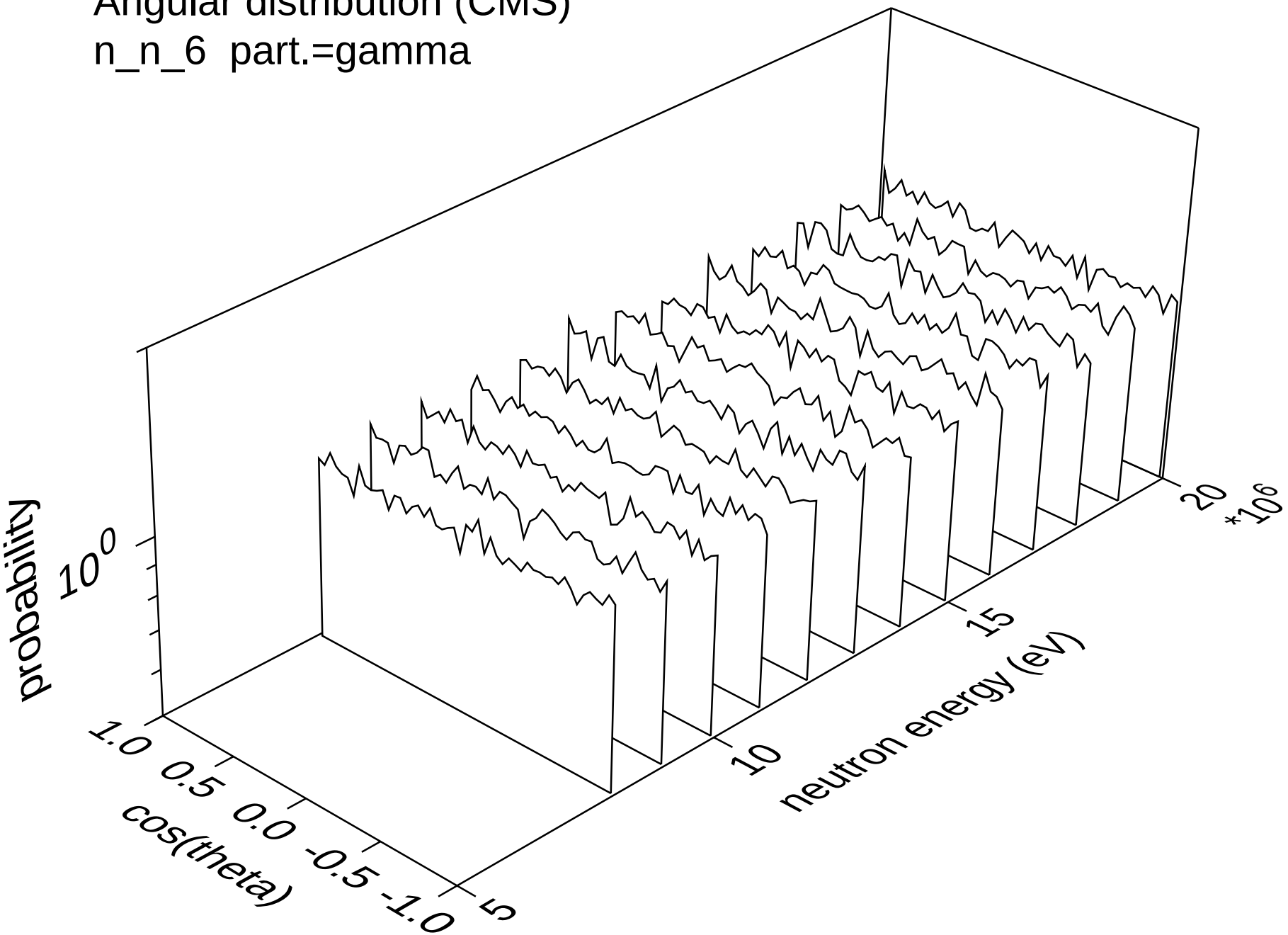

Angular distribution (CMS)
n_n_4 part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

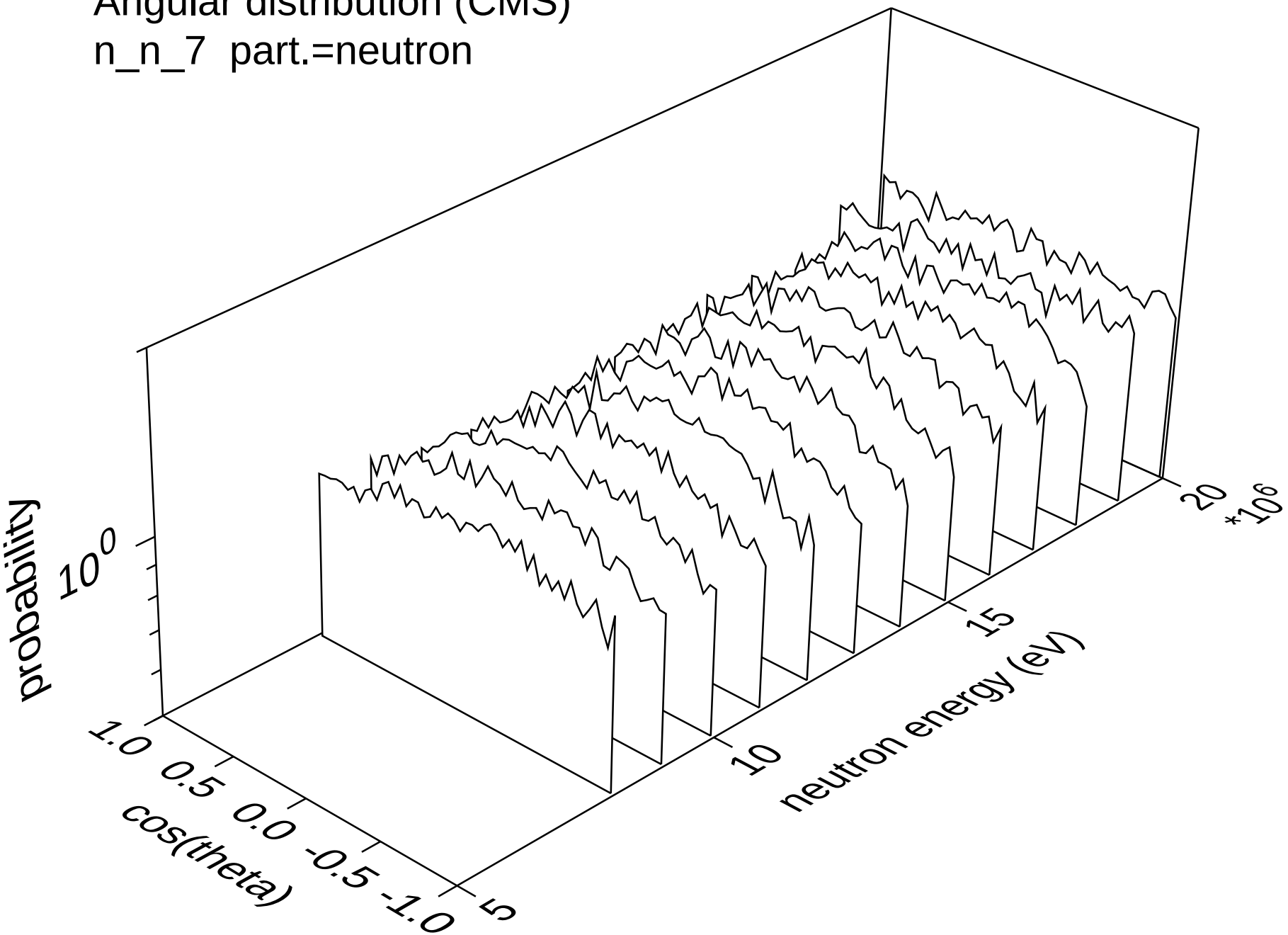

Angular distribution (CMS)
n_n_4 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

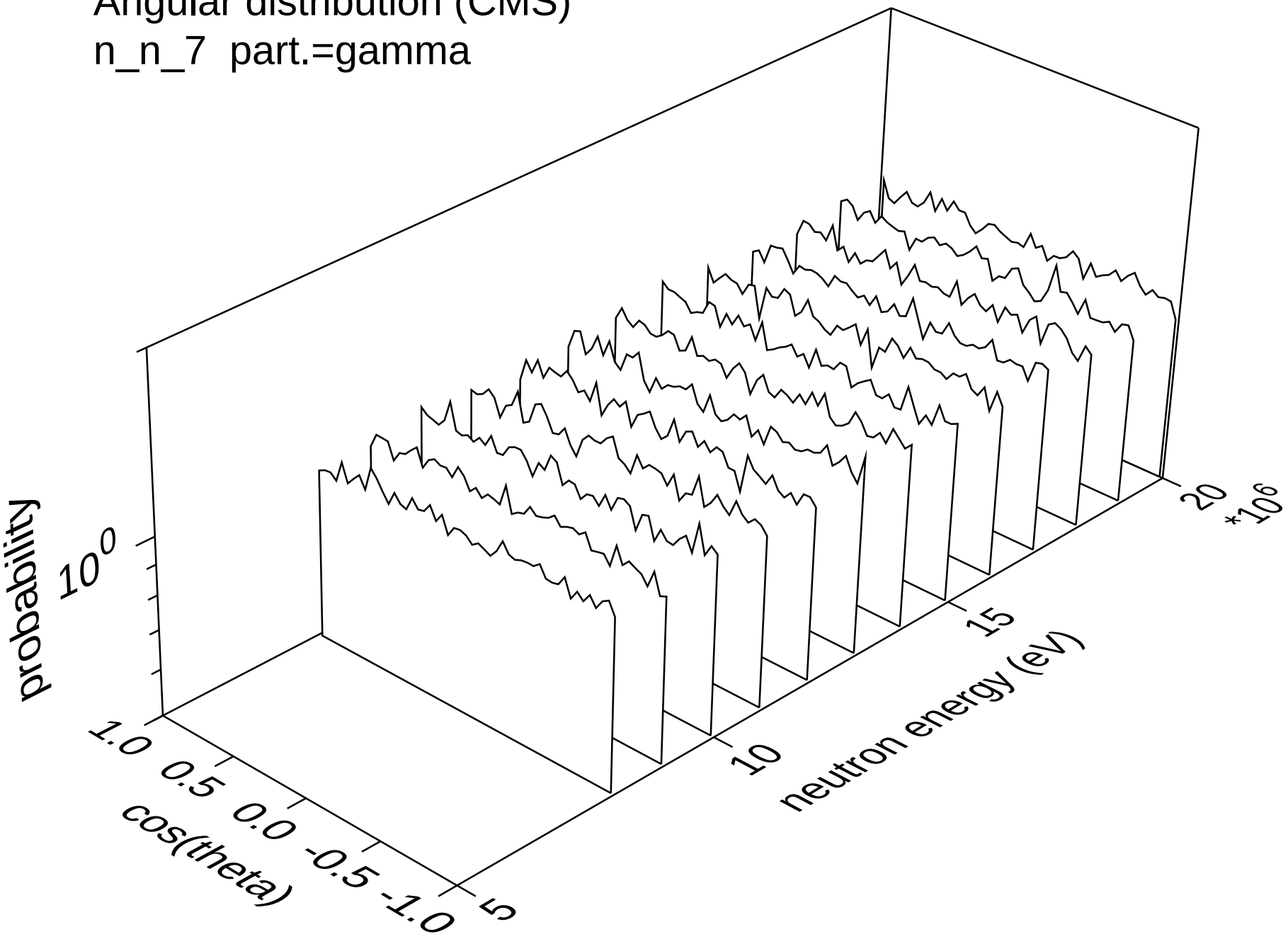

Angular distribution (CMS)
n_n_5 part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

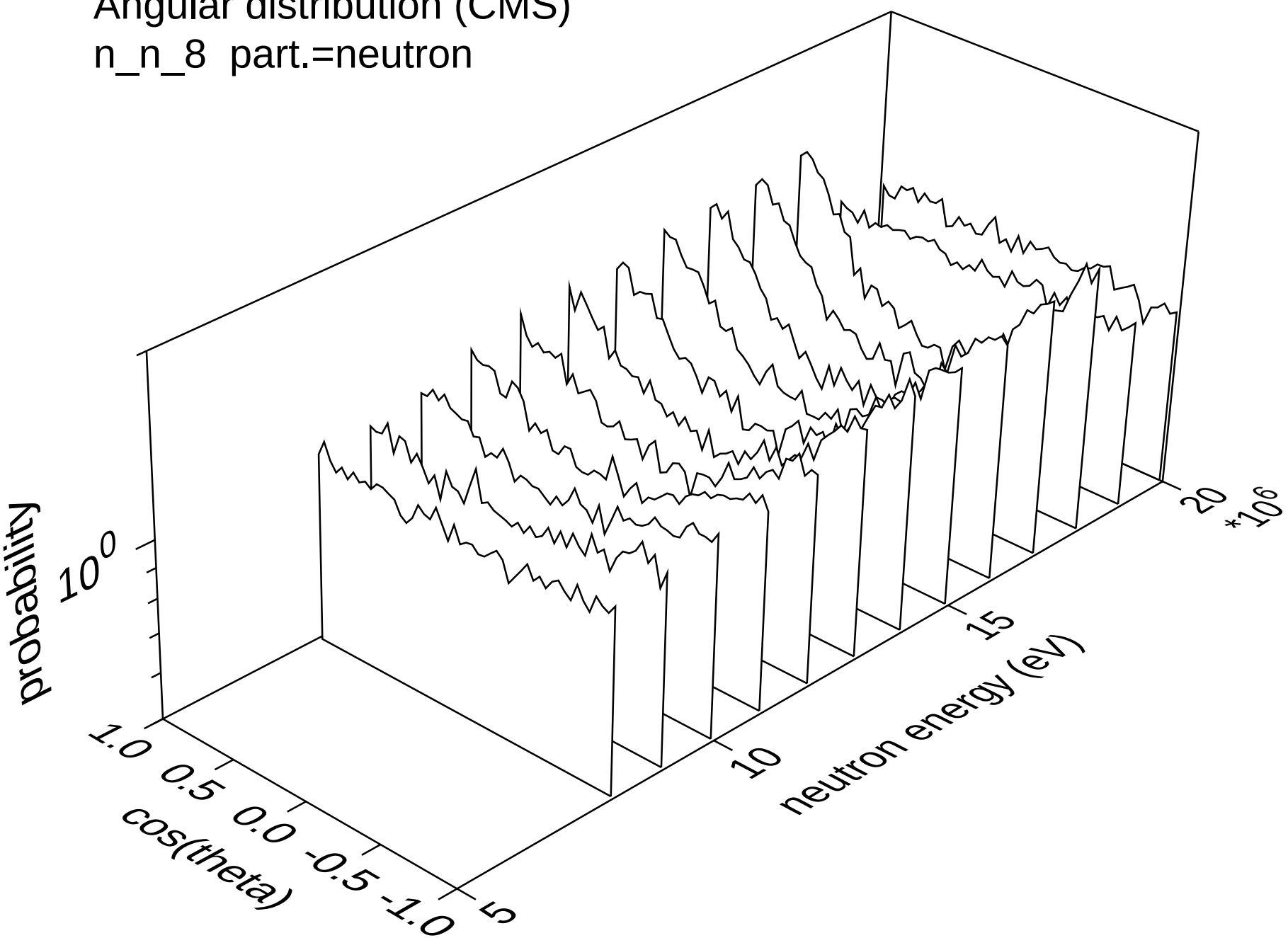

Angular distribution (CMS)
n_n_5 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

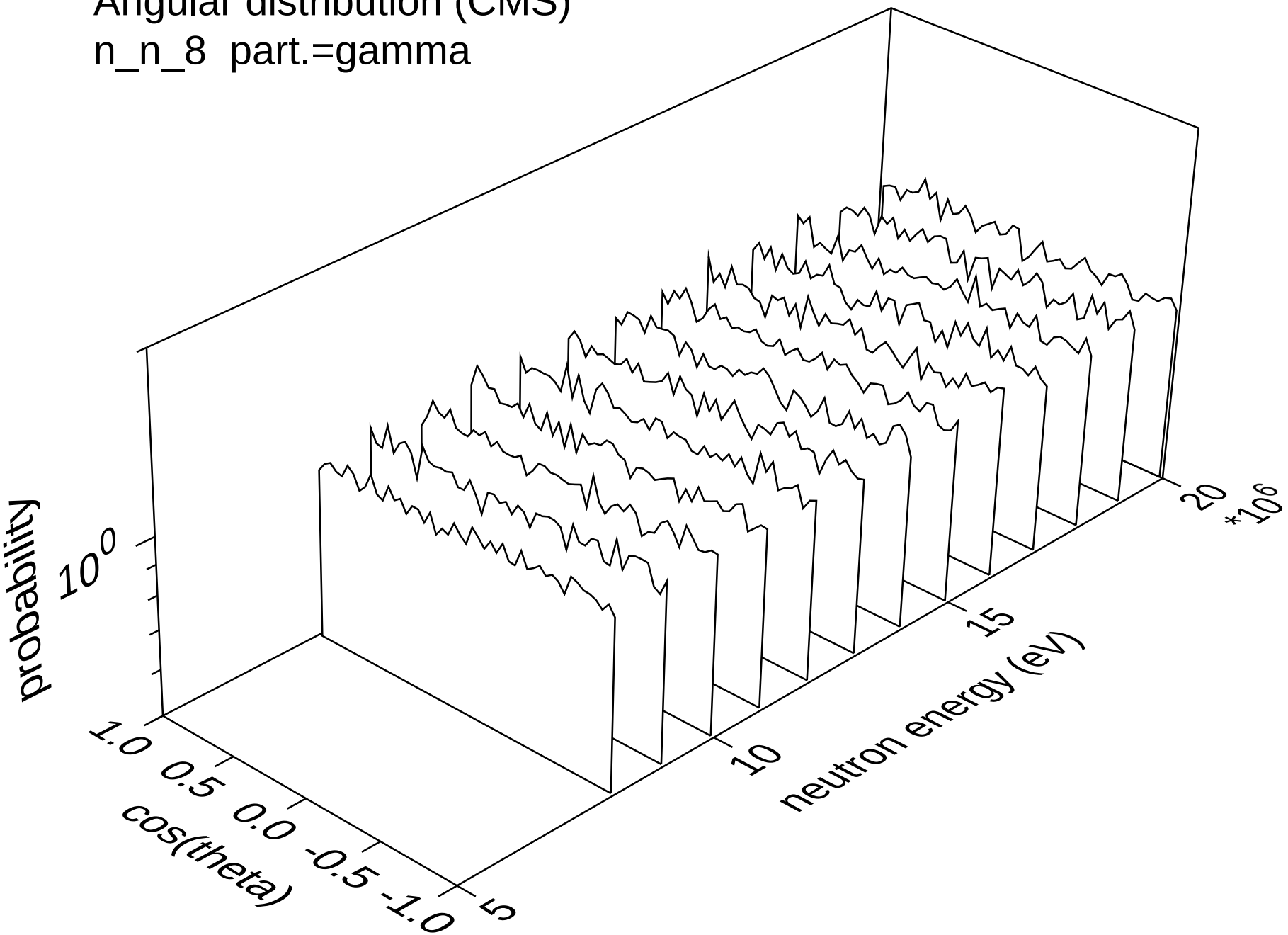

Angular distribution (CMS)
n_n_6 part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

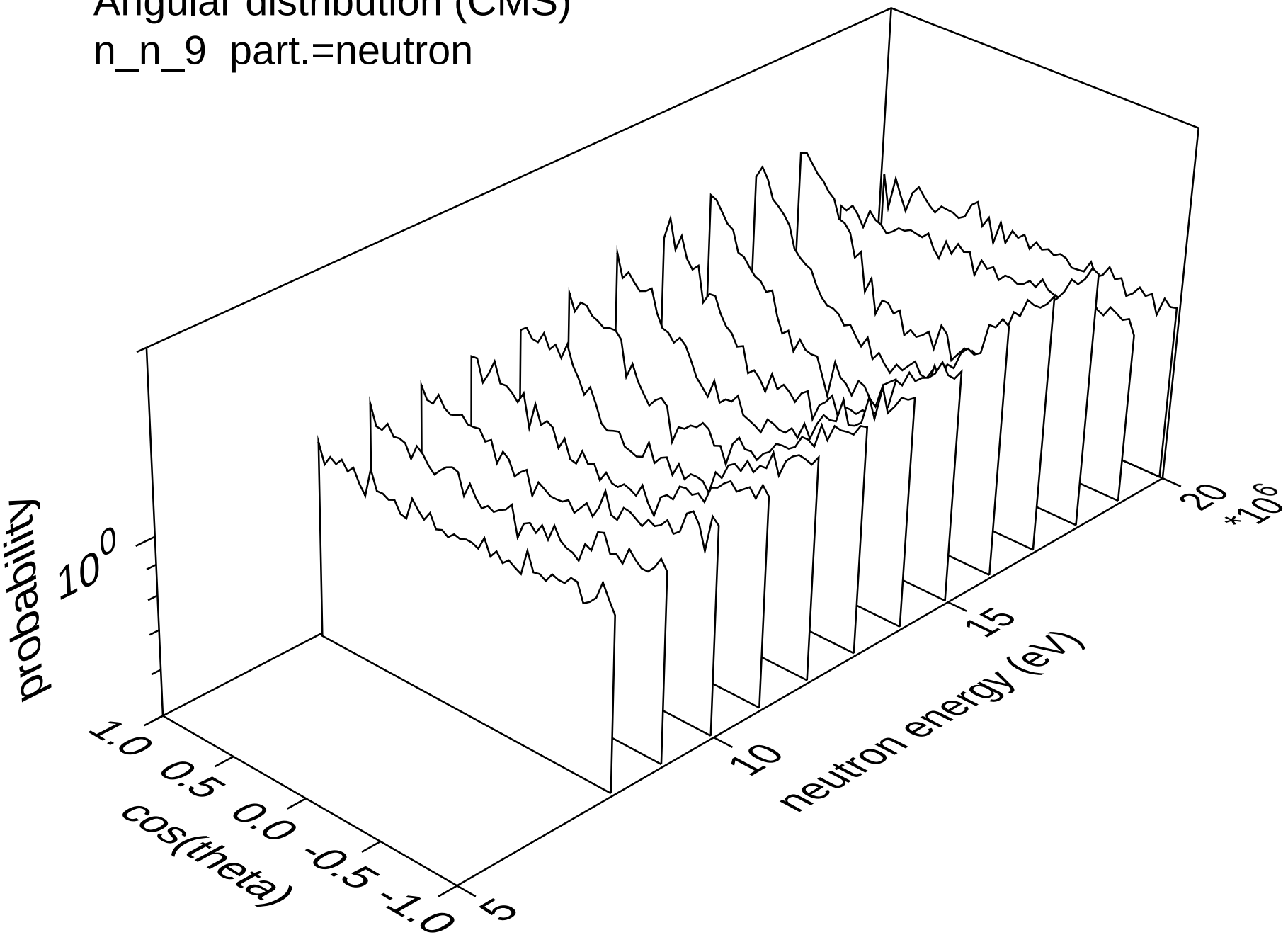

Angular distribution (CMS)
n_n_6 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

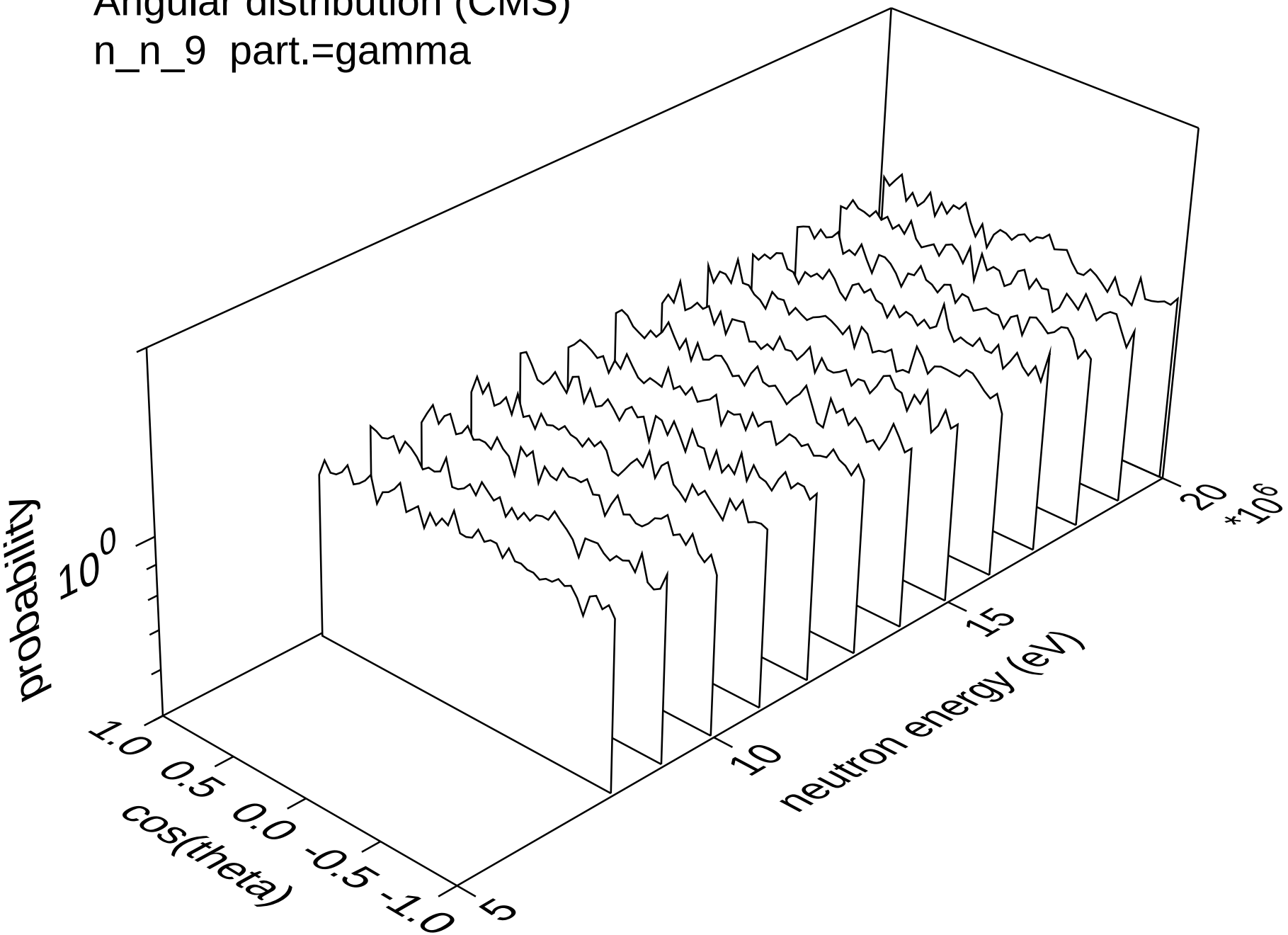

Angular distribution (CMS)
n_n_7 part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

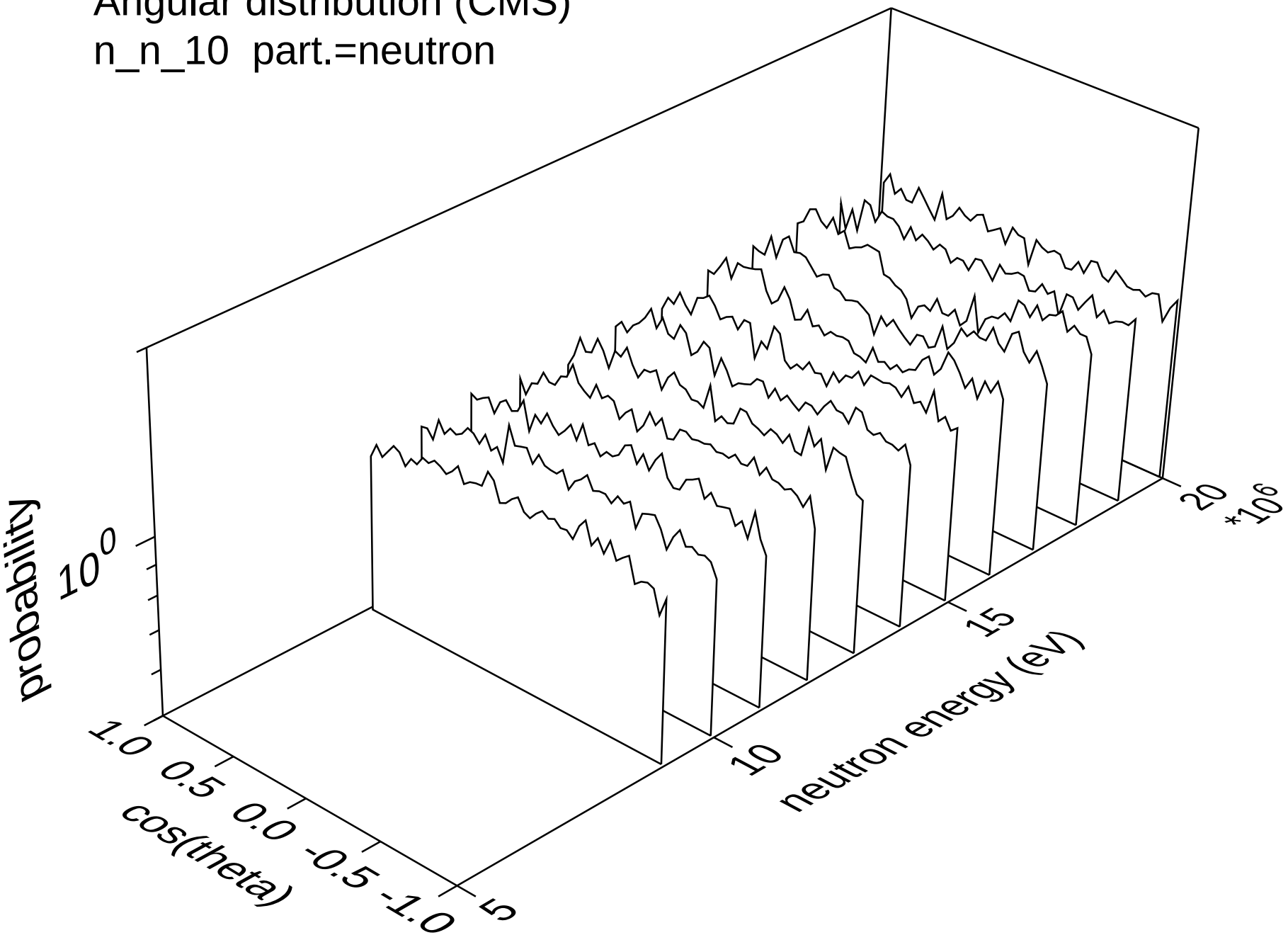

Angular distribution (CMS)
n_n_7 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

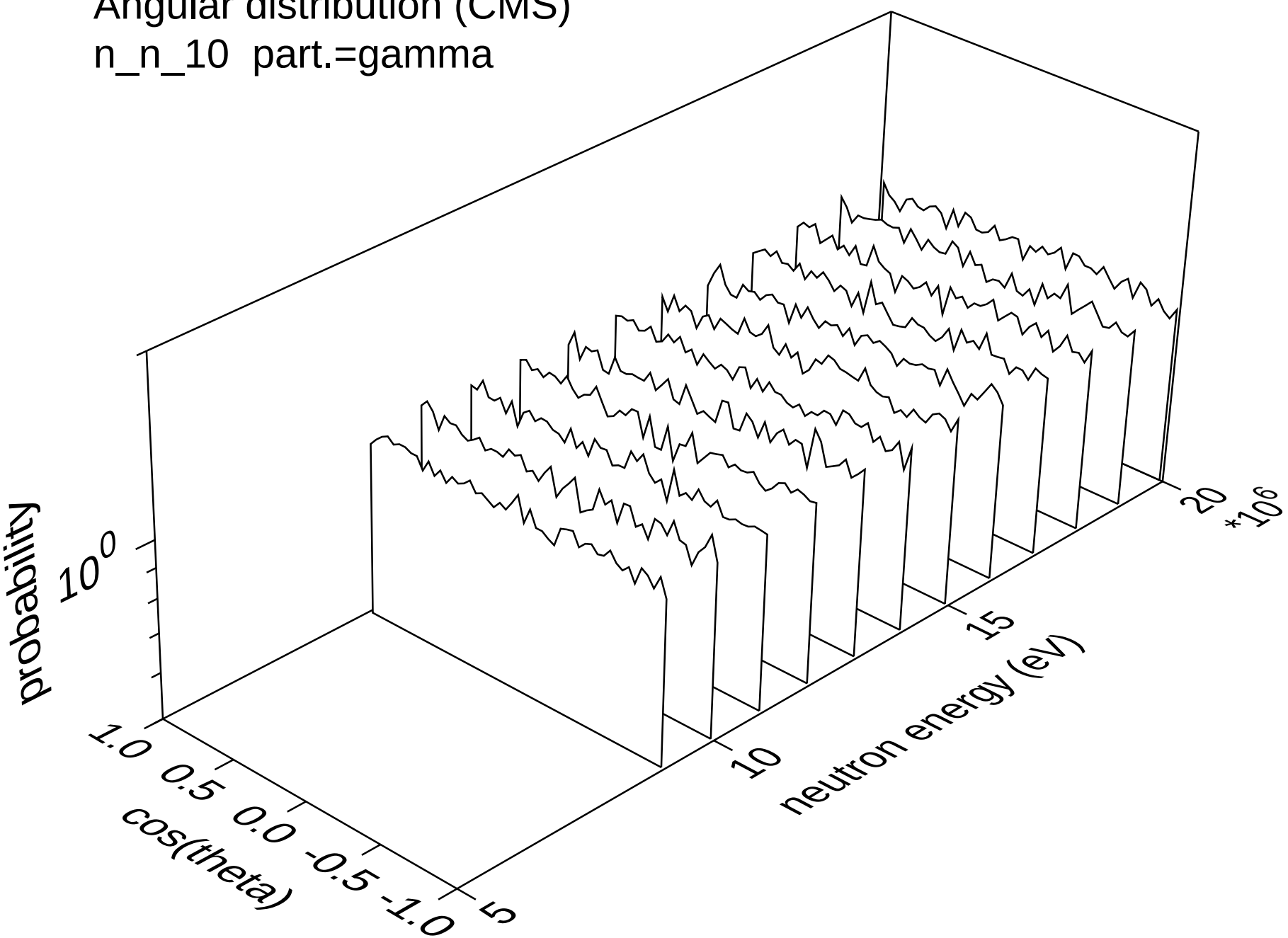

Angular distribution (CMS)
n_n_8 part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

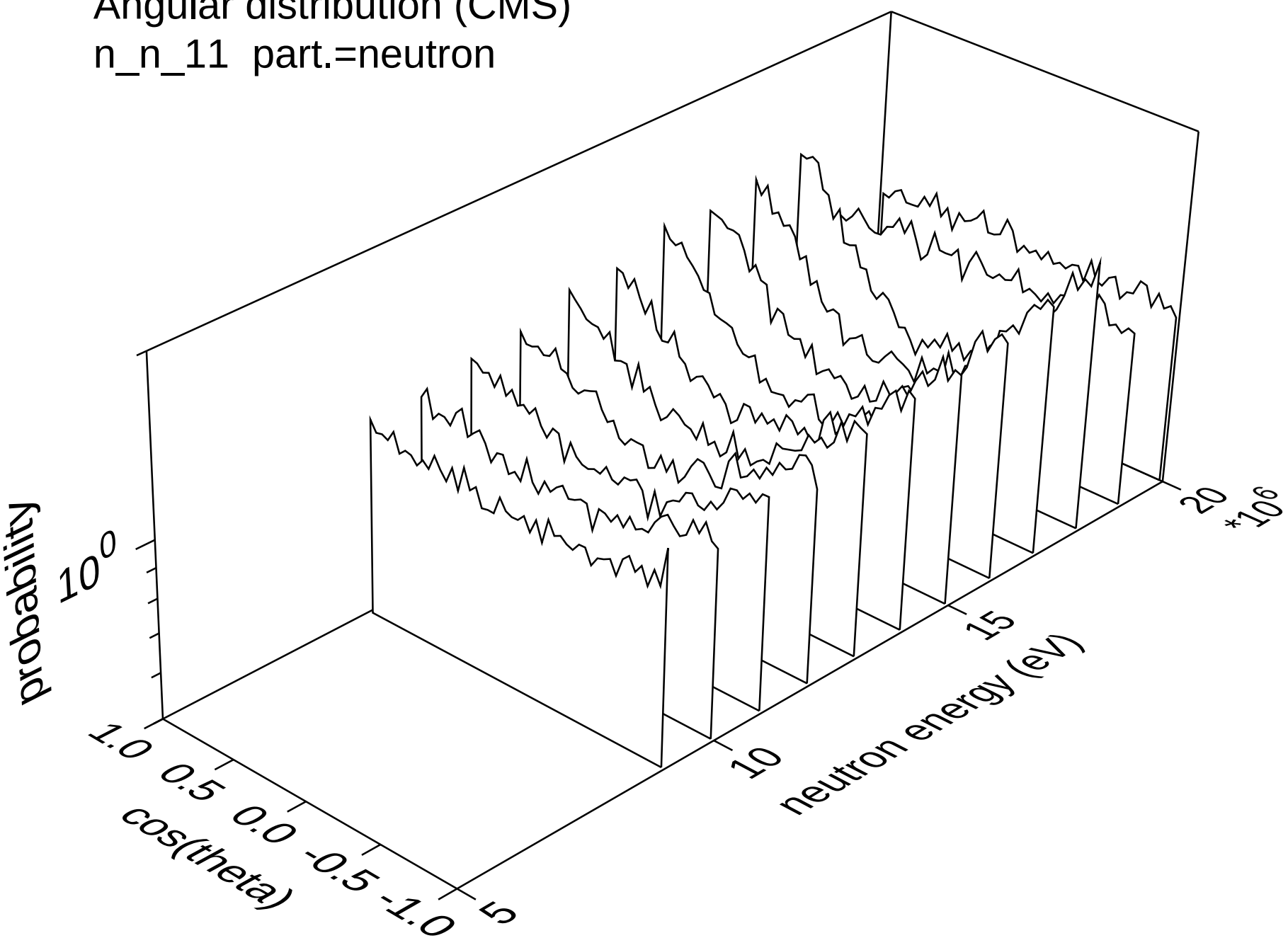

Angular distribution (CMS)
n_n_8 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

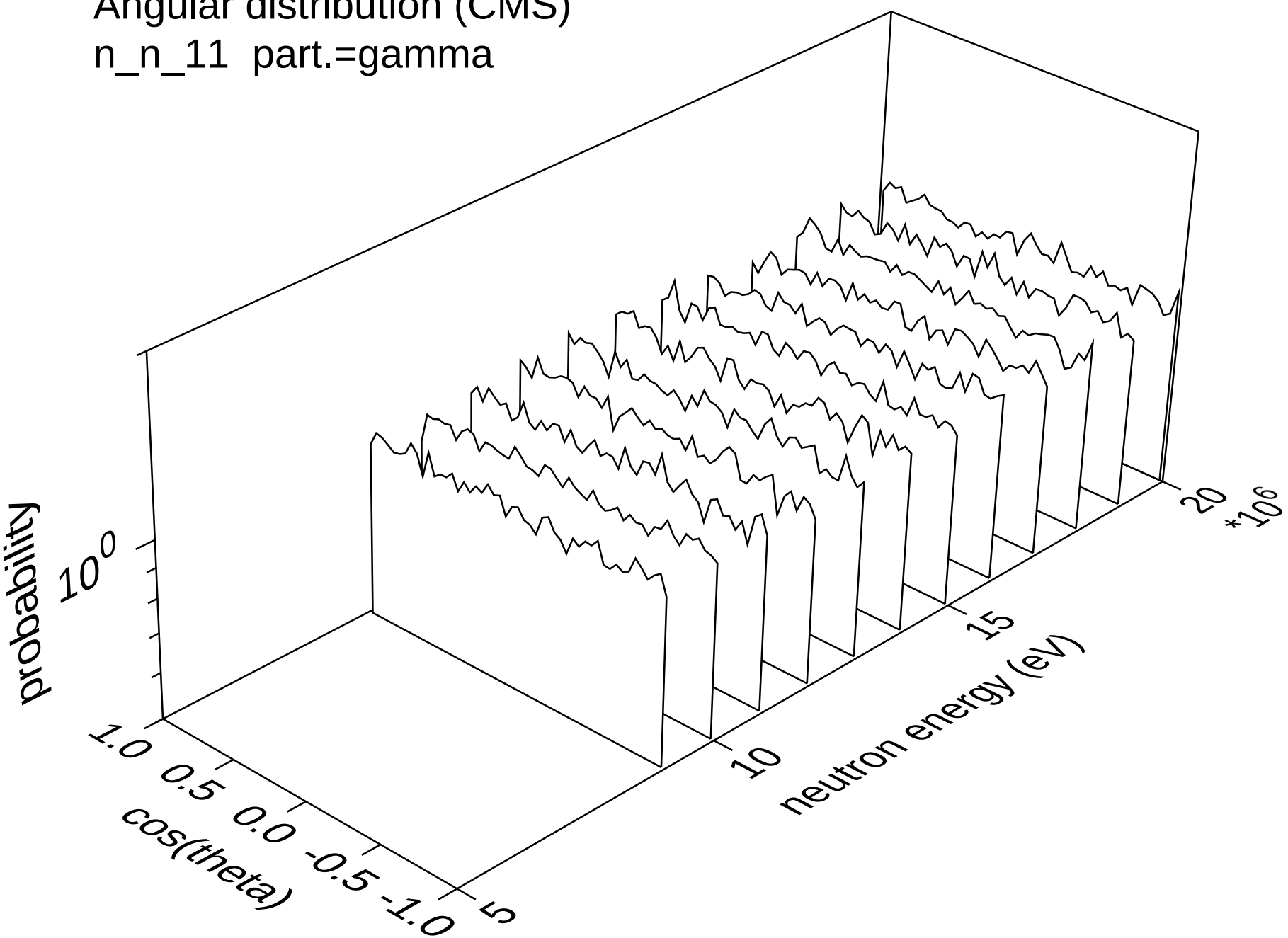

Angular distribution (CMS)
n_n_9 part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

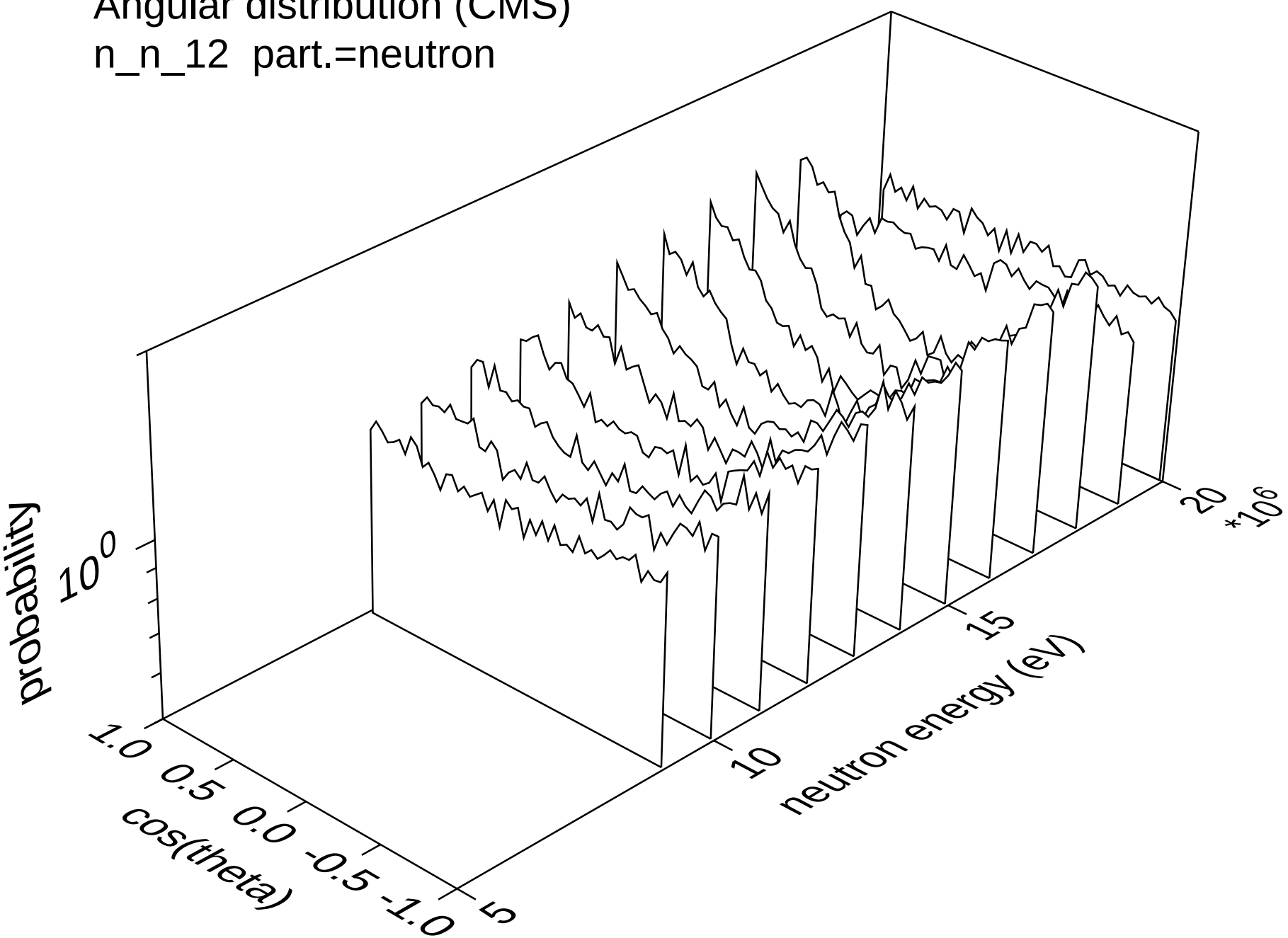

Angular distribution (CMS)
n_n_9 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

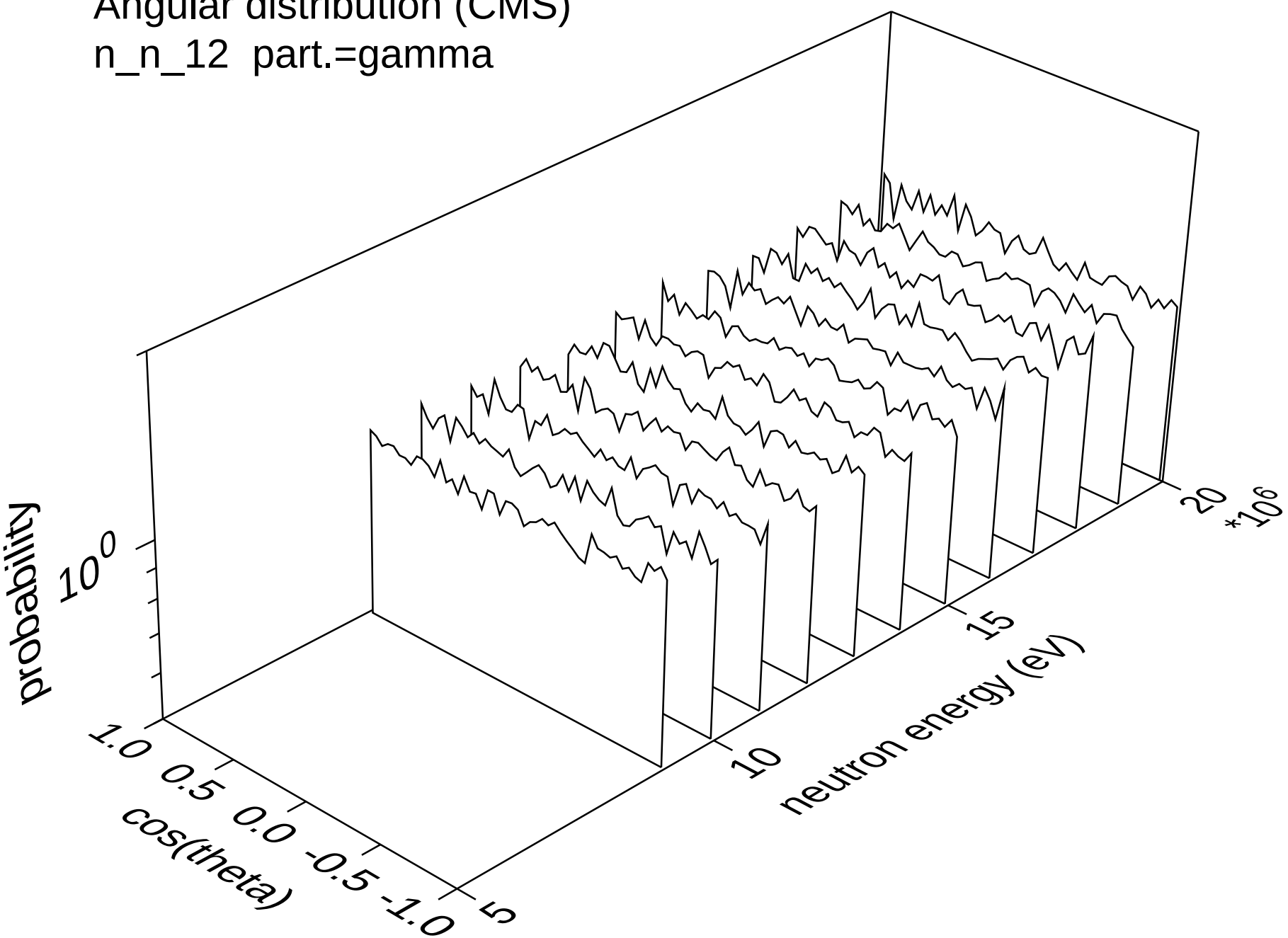

Angular distribution (CMS)
n_n_10 part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

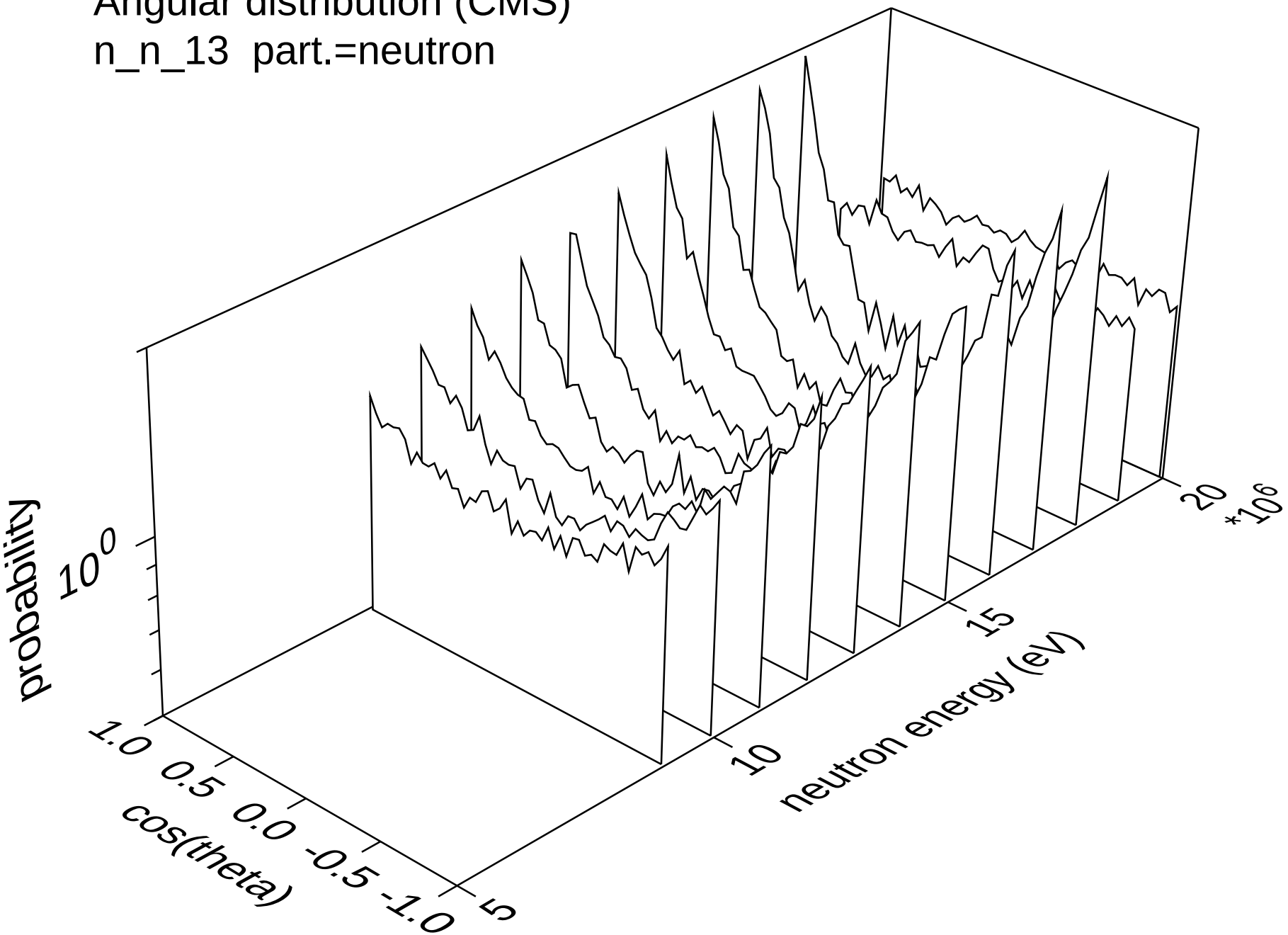

Angular distribution (CMS)
n_n_10 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

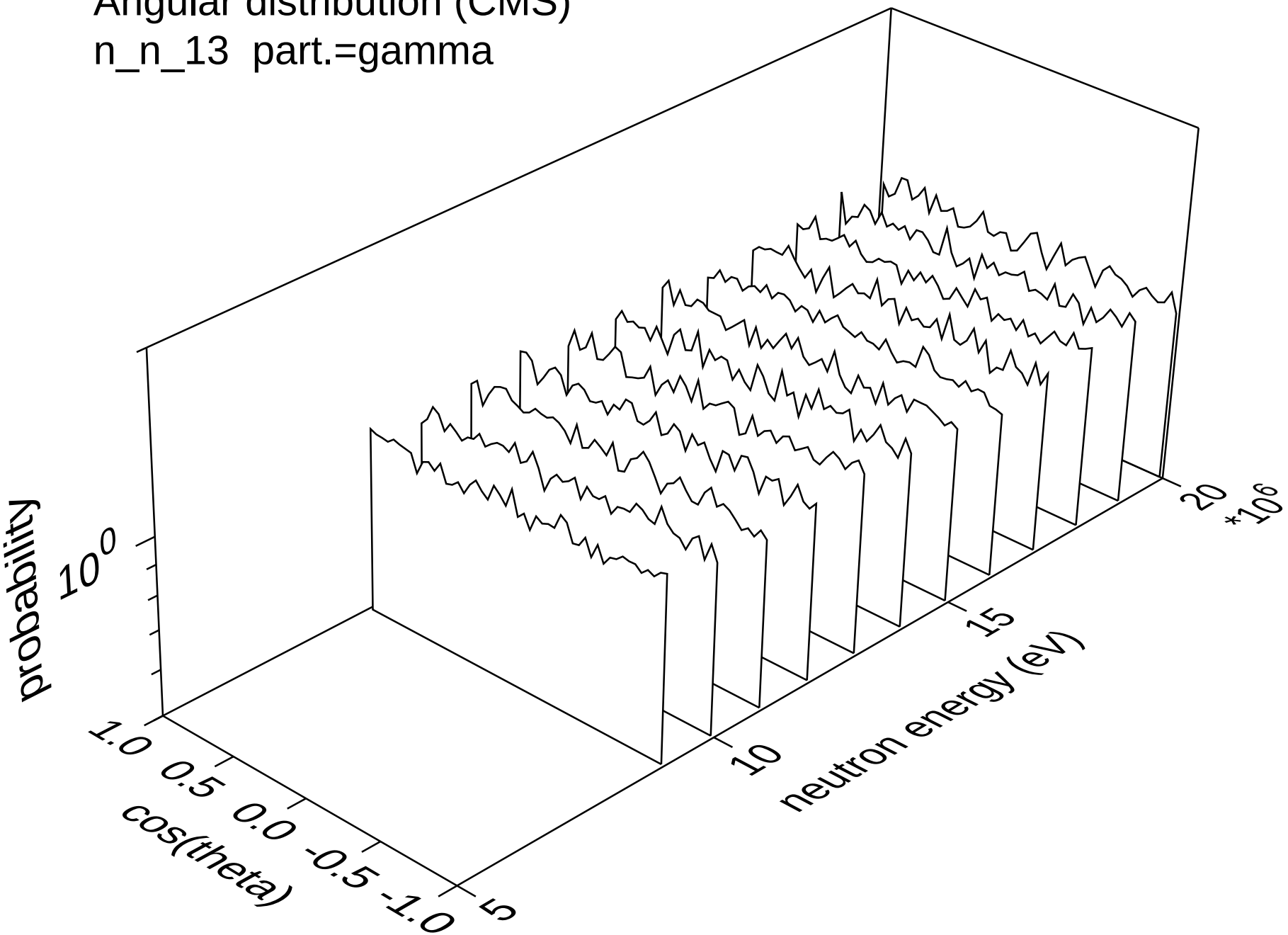

Angular distribution (CMS)
n_n_11 part.=neutron
probability
10^0
1.0 0.5 0.0 -0.5 -1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

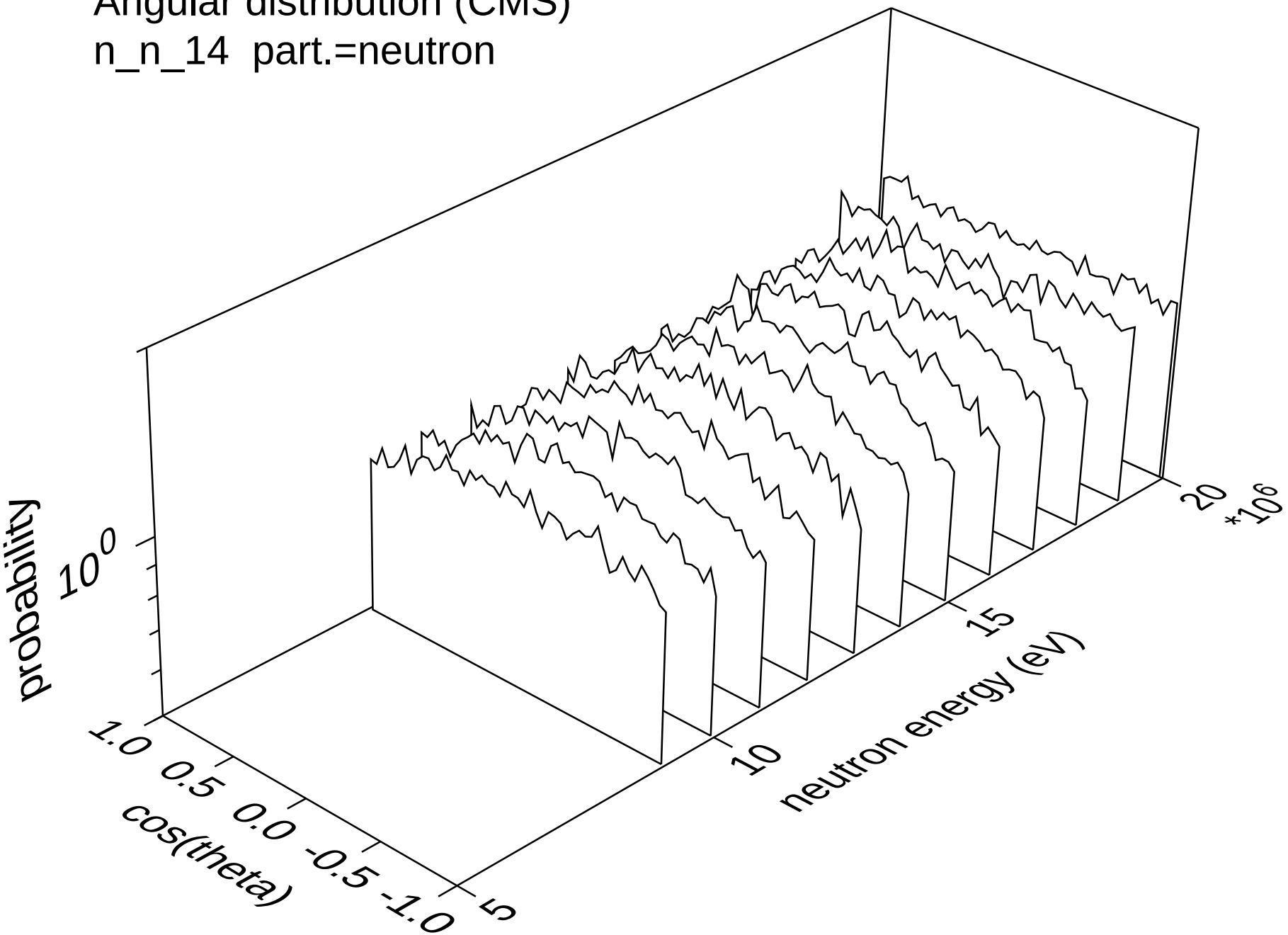

Angular distribution (CMS)
n_n_11 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

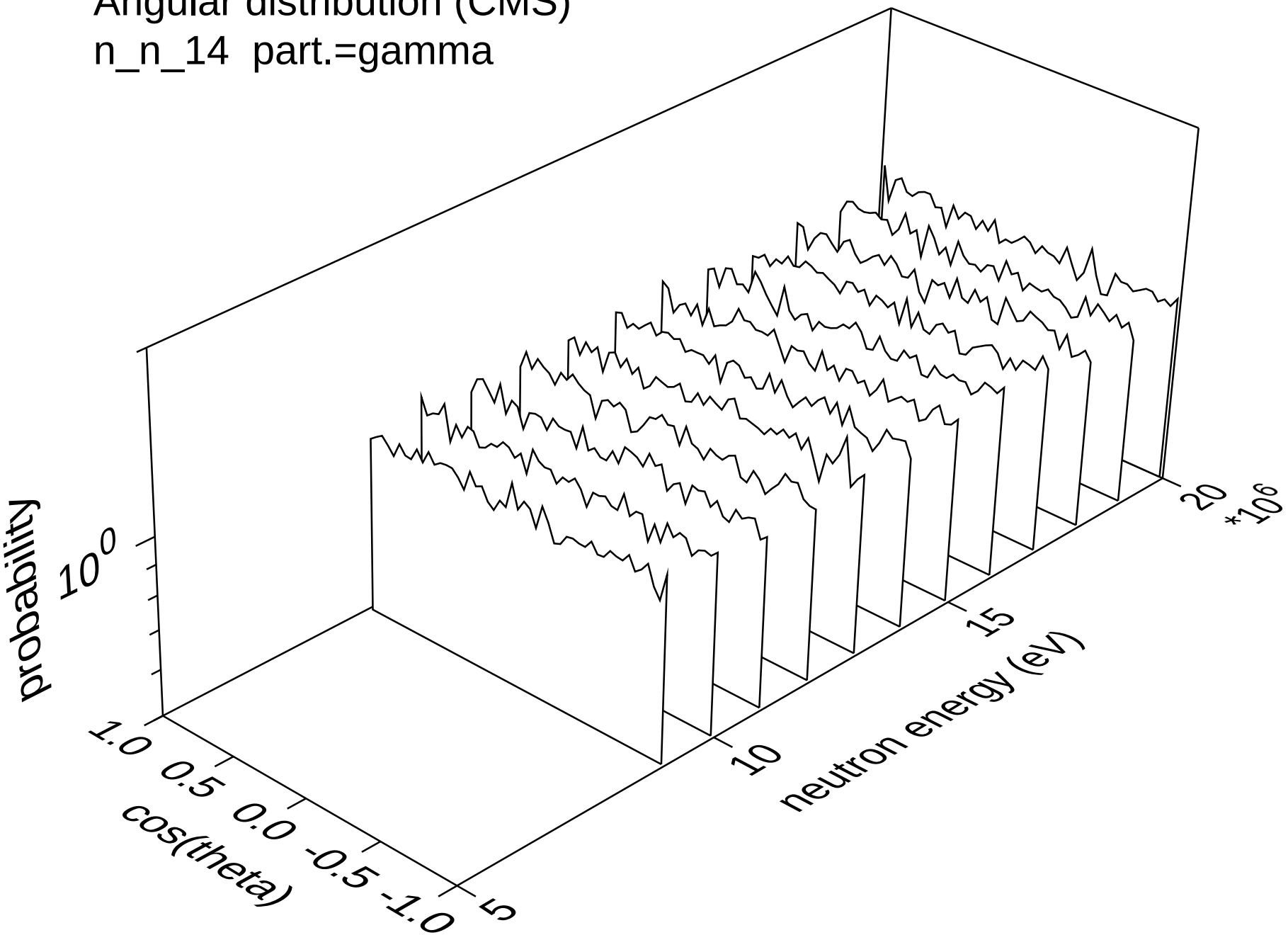

Angular distribution (CMS)
n_n_12 part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

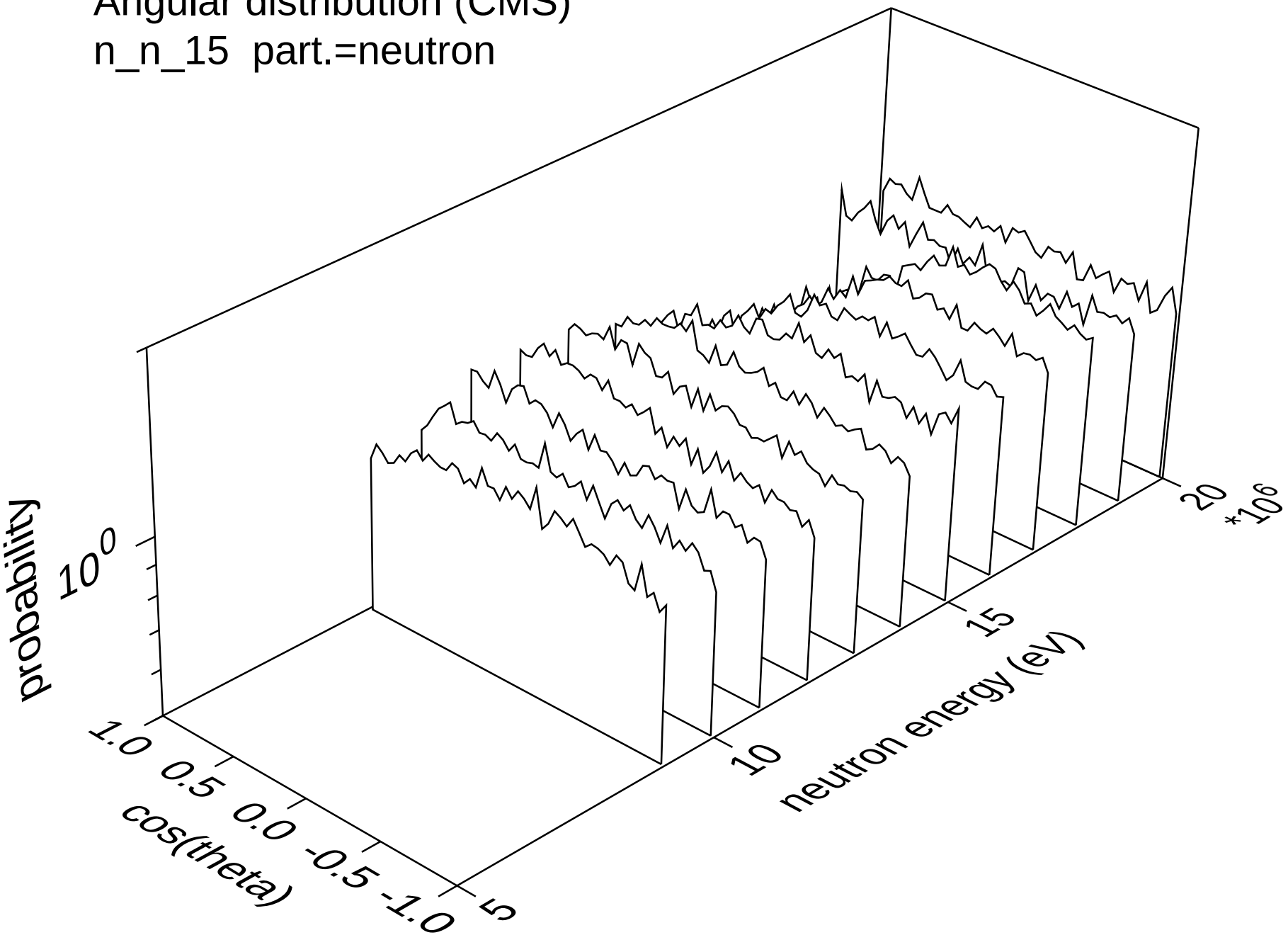

Angular distribution (CMS)
n_n_12 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

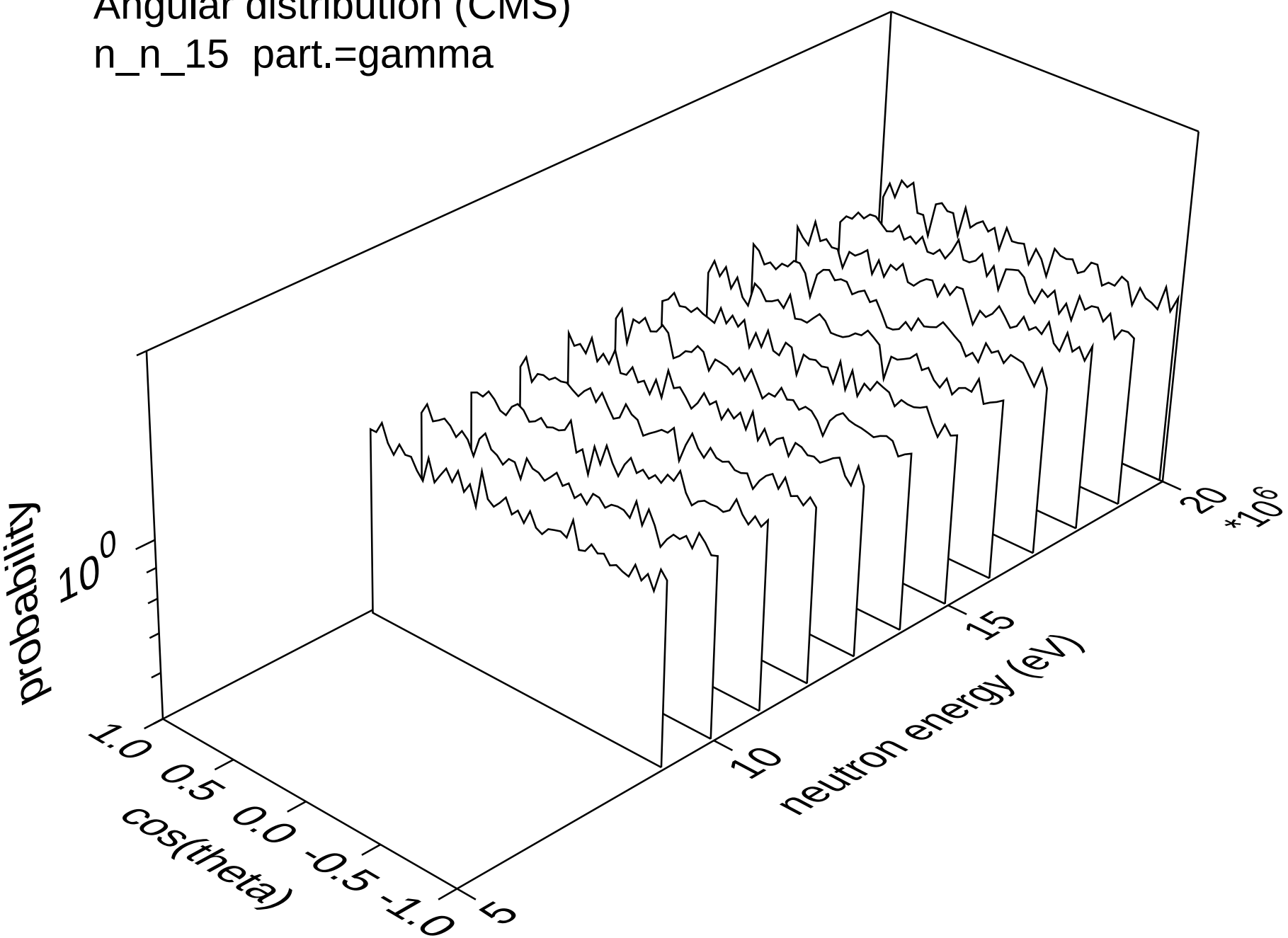

Angular distribution (CMS)
n_n_13 part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

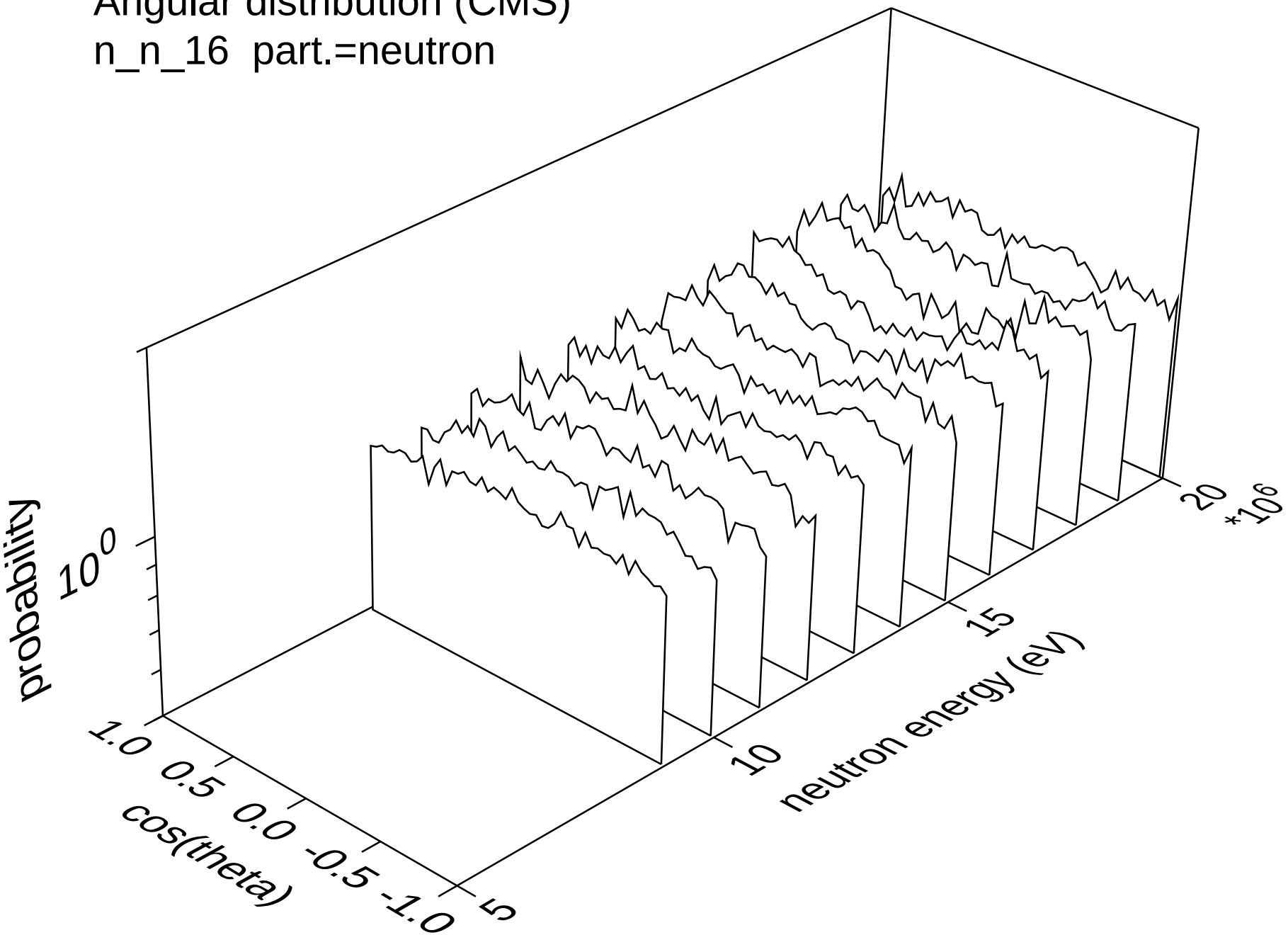

Angular distribution (CMS)
n_n_13 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

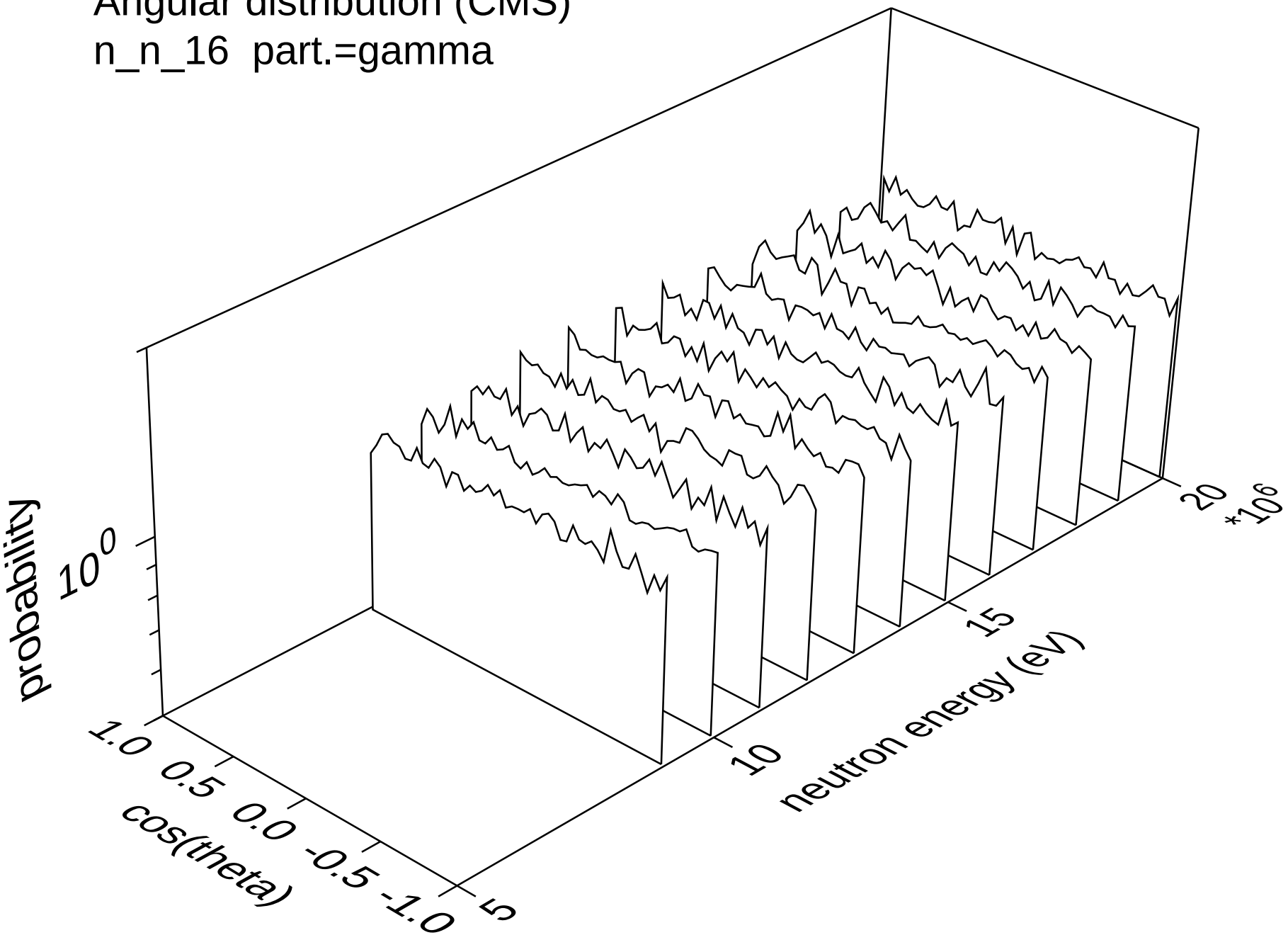

Angular distribution (CMS)
n_n_14 part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

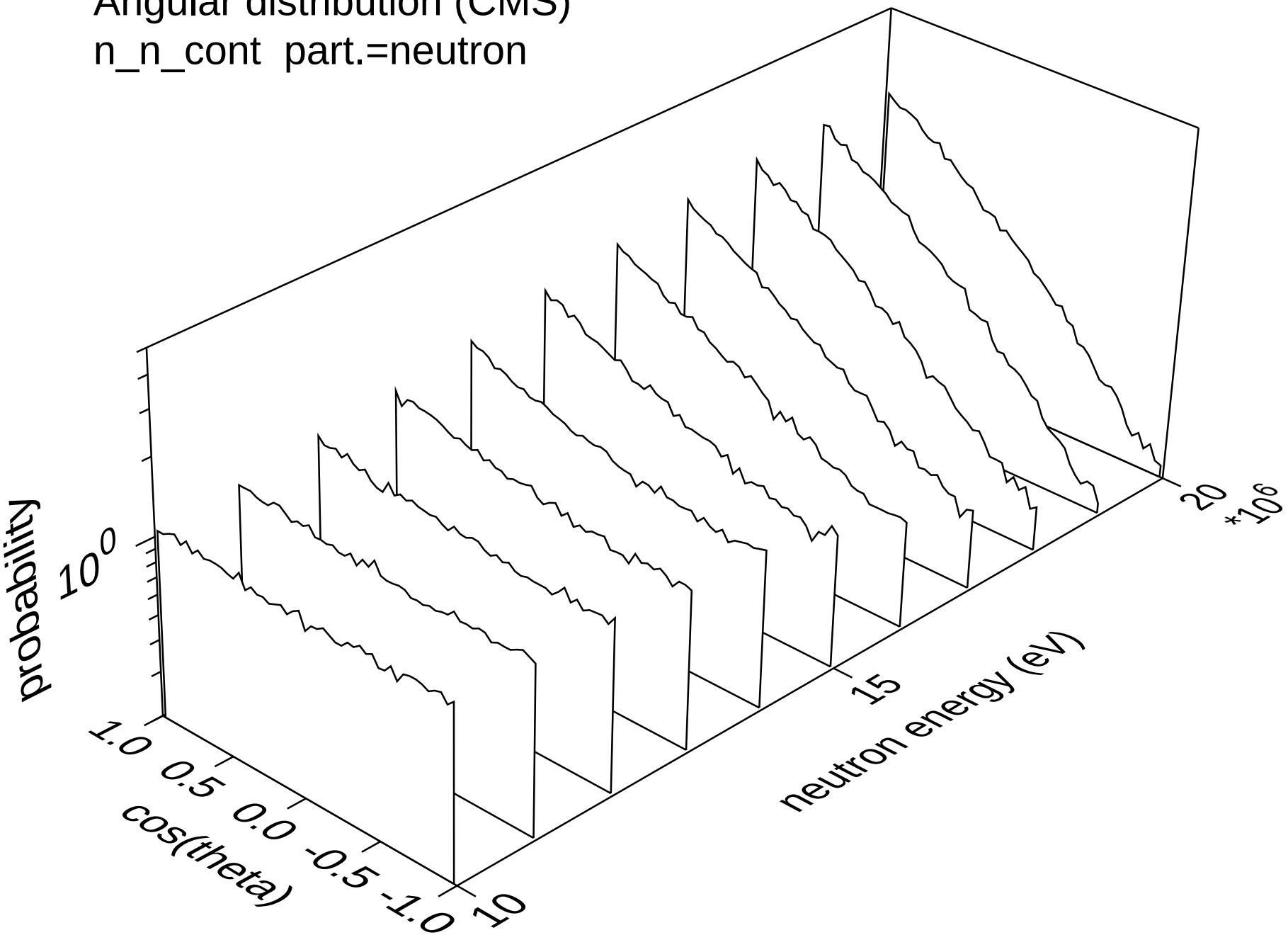

Angular distribution (CMS)
n_n_14 part.=gamma
probability
10^0
1.0 0.5 0.0 -0.5 -1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

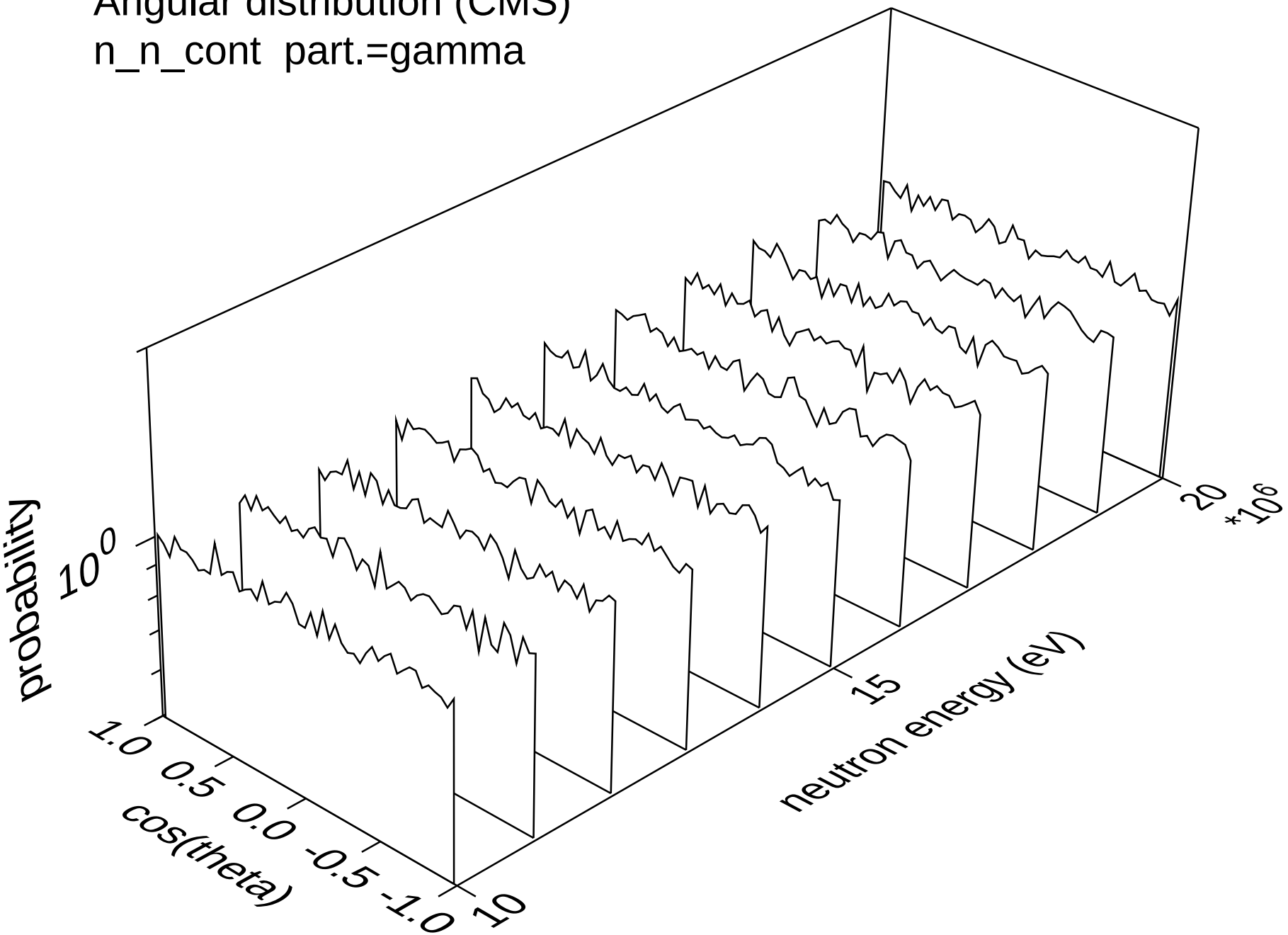

Angular distribution (CMS)
n_n_15 part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

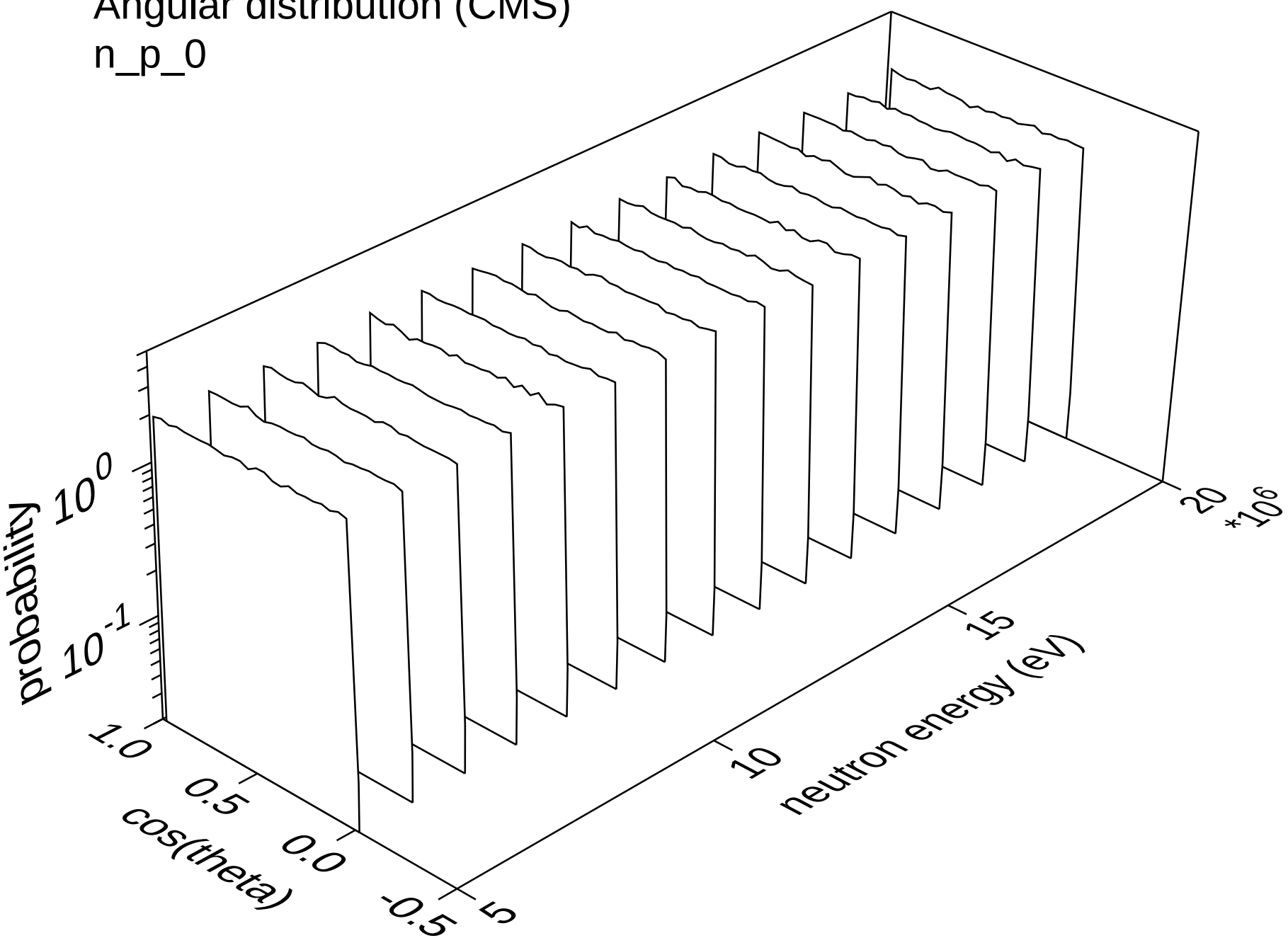

Angular distribution (CMS)
n_n_15 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

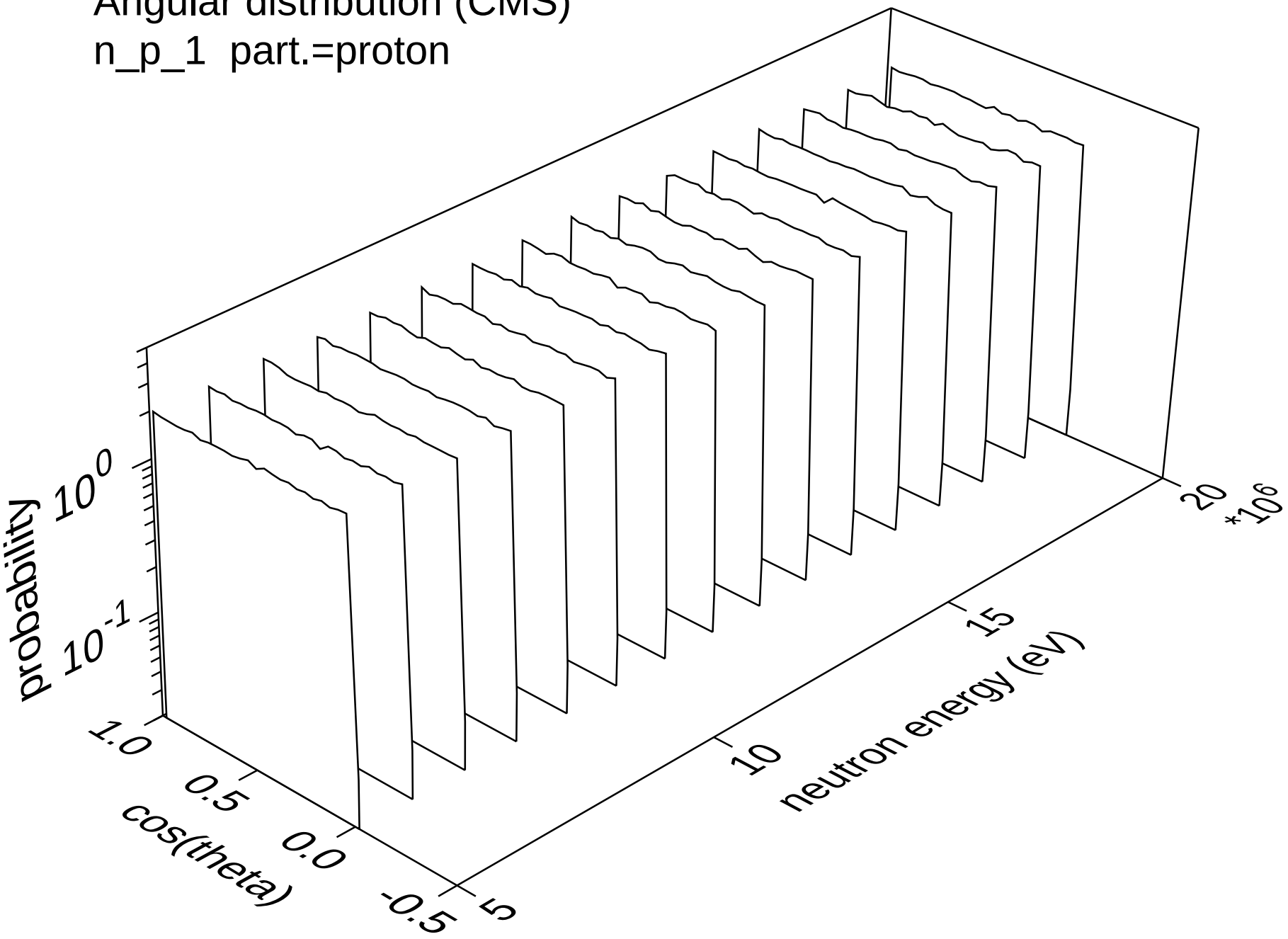

Angular distribution (CMS)
n_n_16 part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

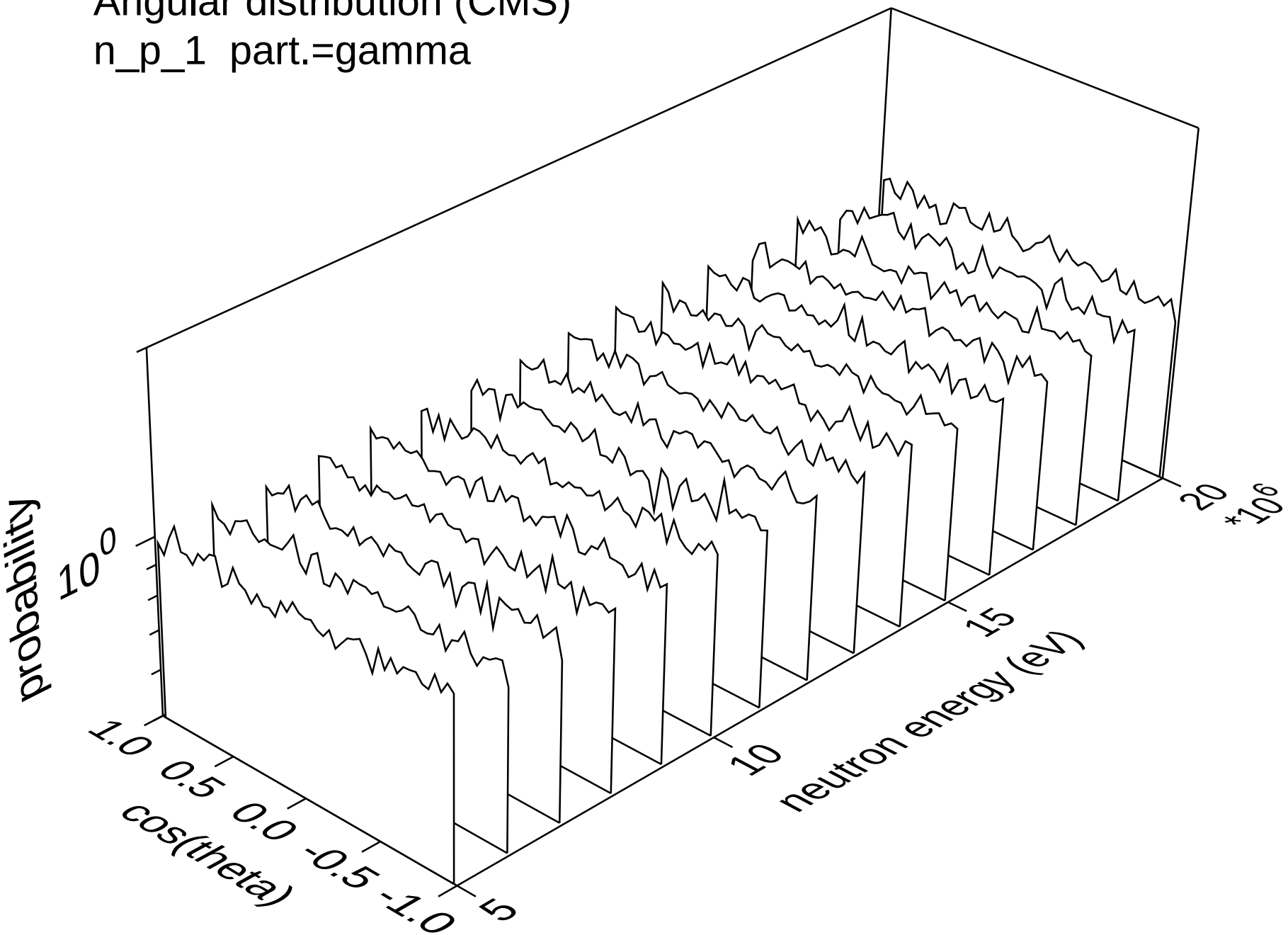

Angular distribution (CMS)
n_n_16 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

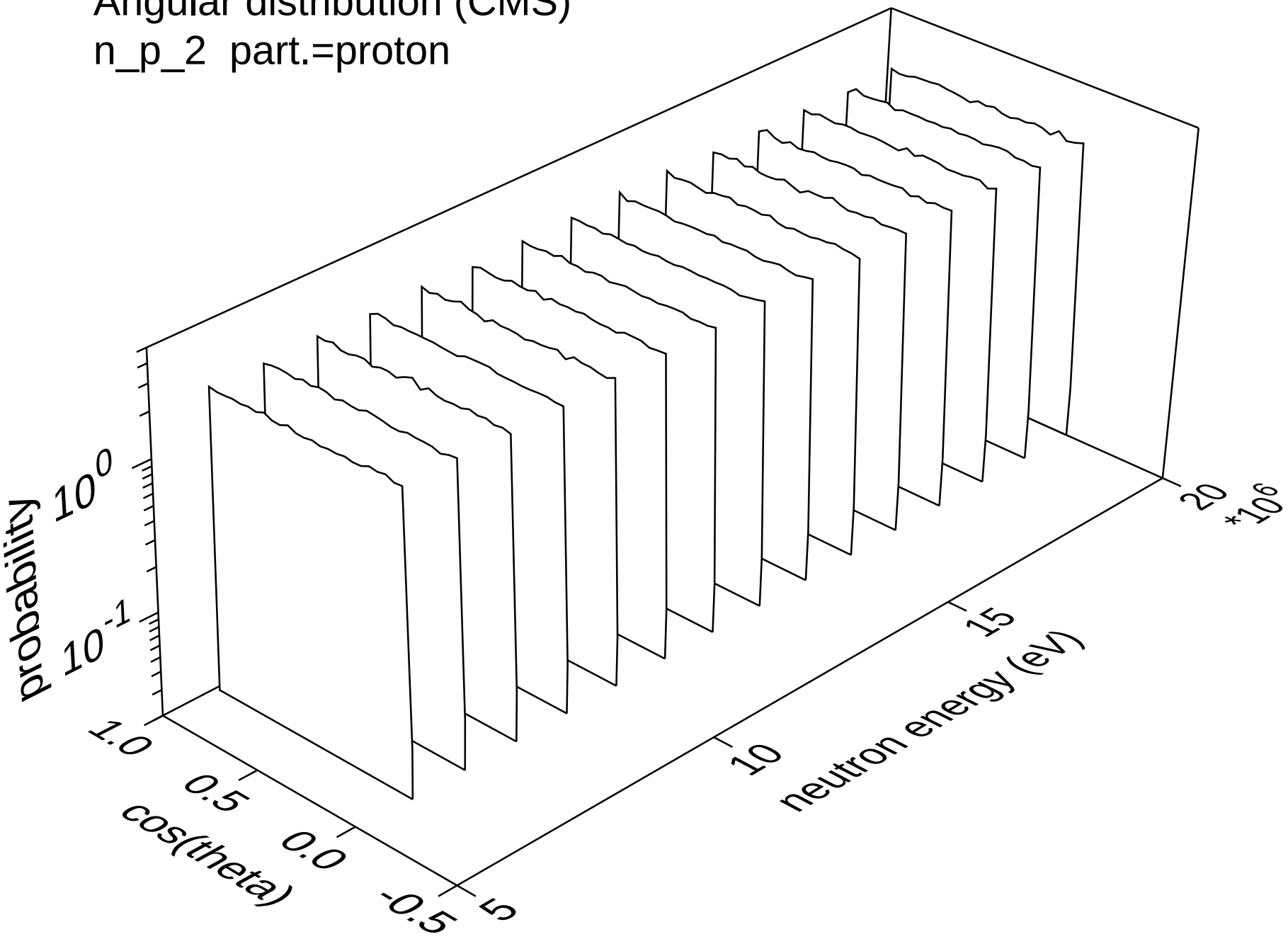

Angular distribution (CMS)
n_n_cont part.=neutron
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
*10^6
neutron energy (eV)

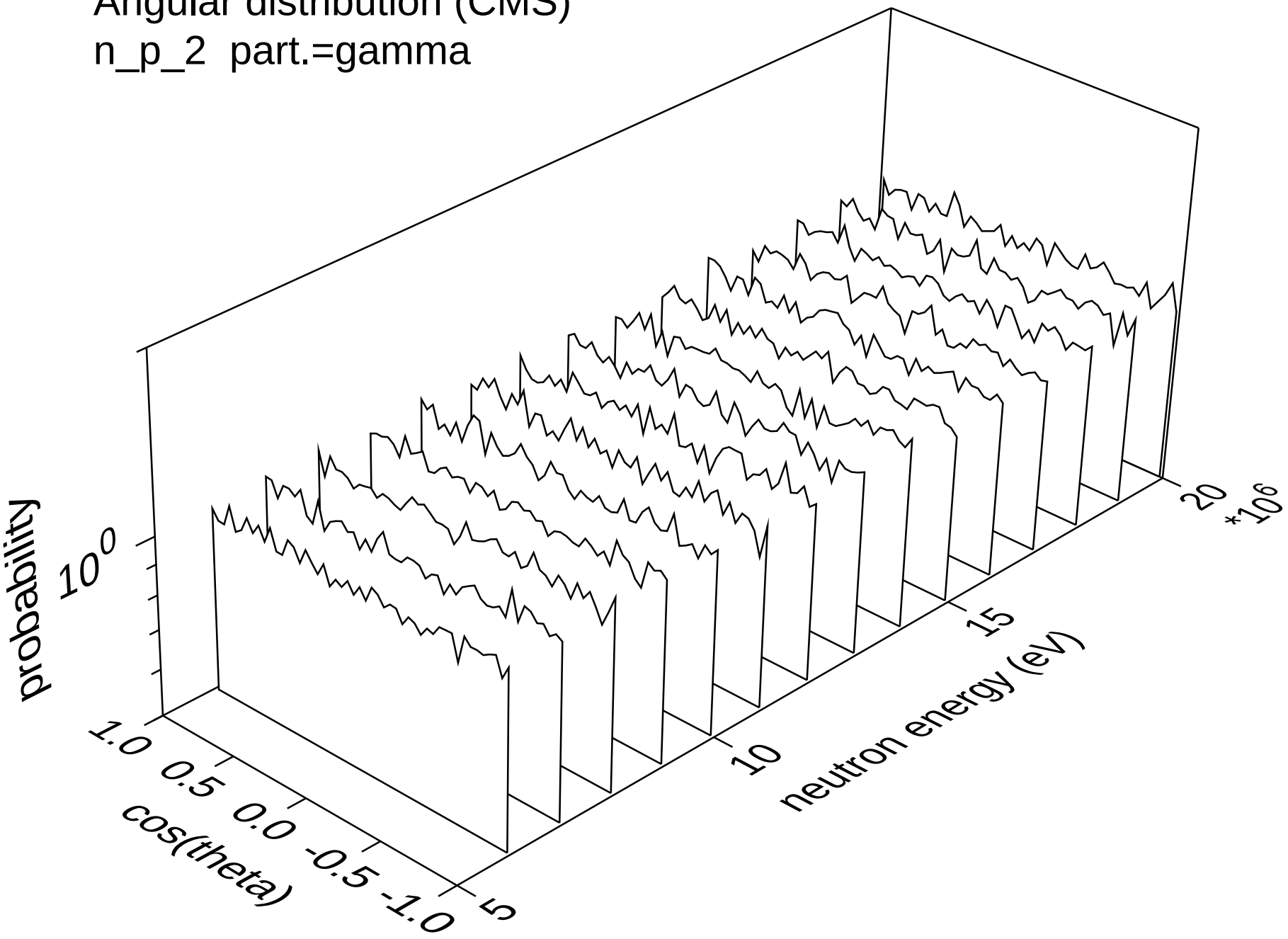

Angular distribution (CMS)
n_n_cont part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
*10^6
neutron energy (eV)

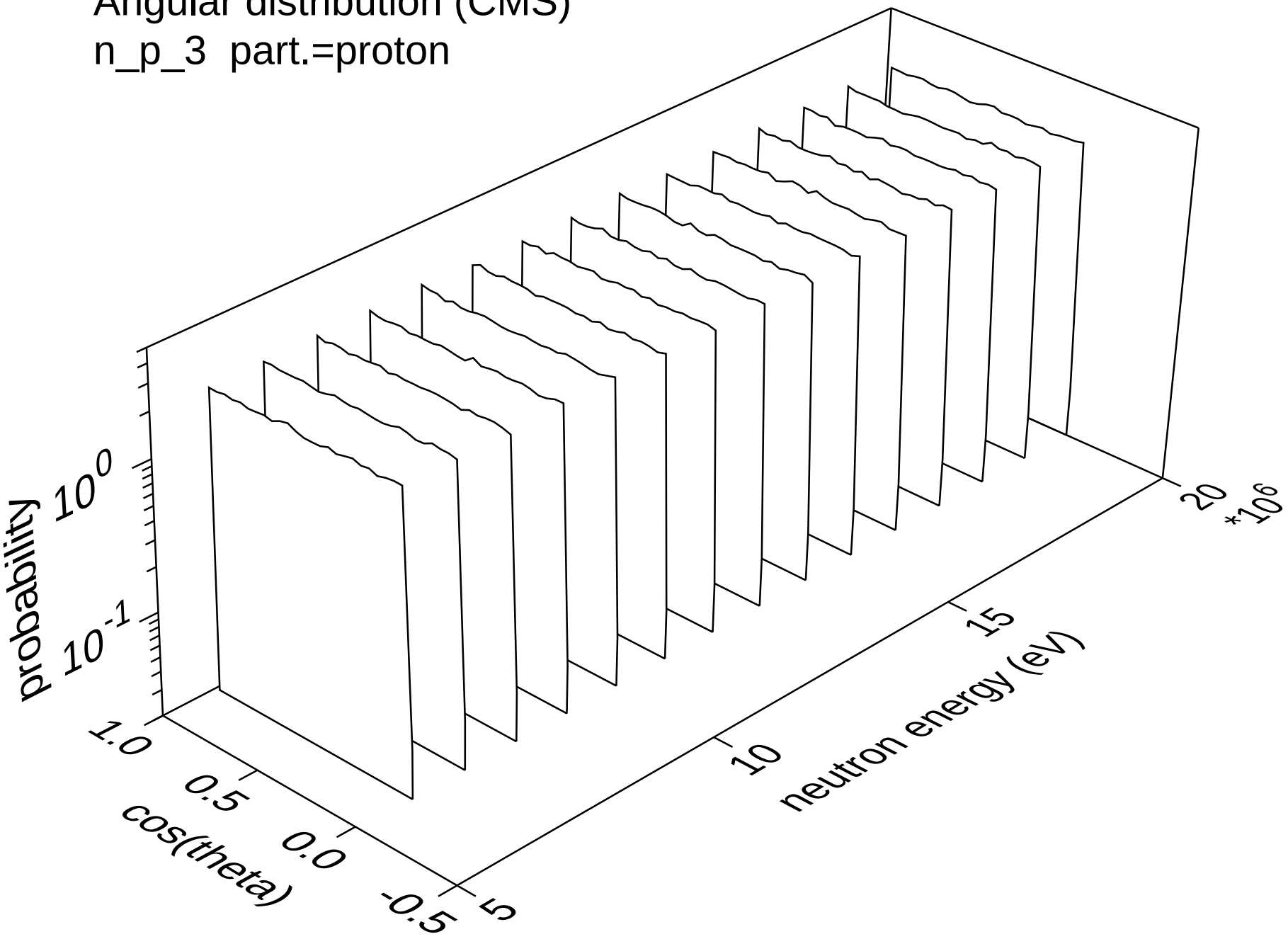

Angular distribution (CMS)
n_p_0
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

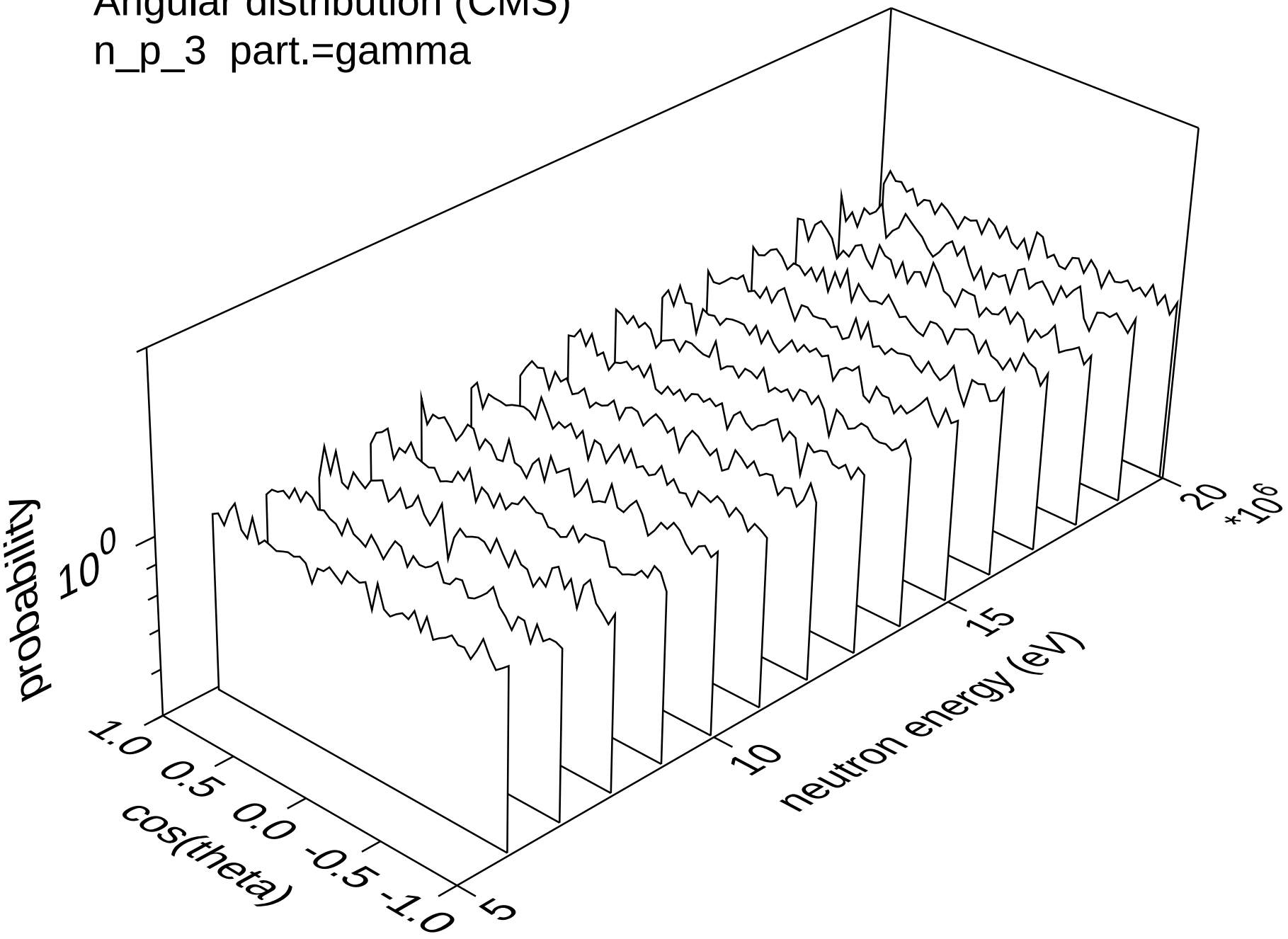

Angular distribution (CMS)
n_p_1 part.=proton
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

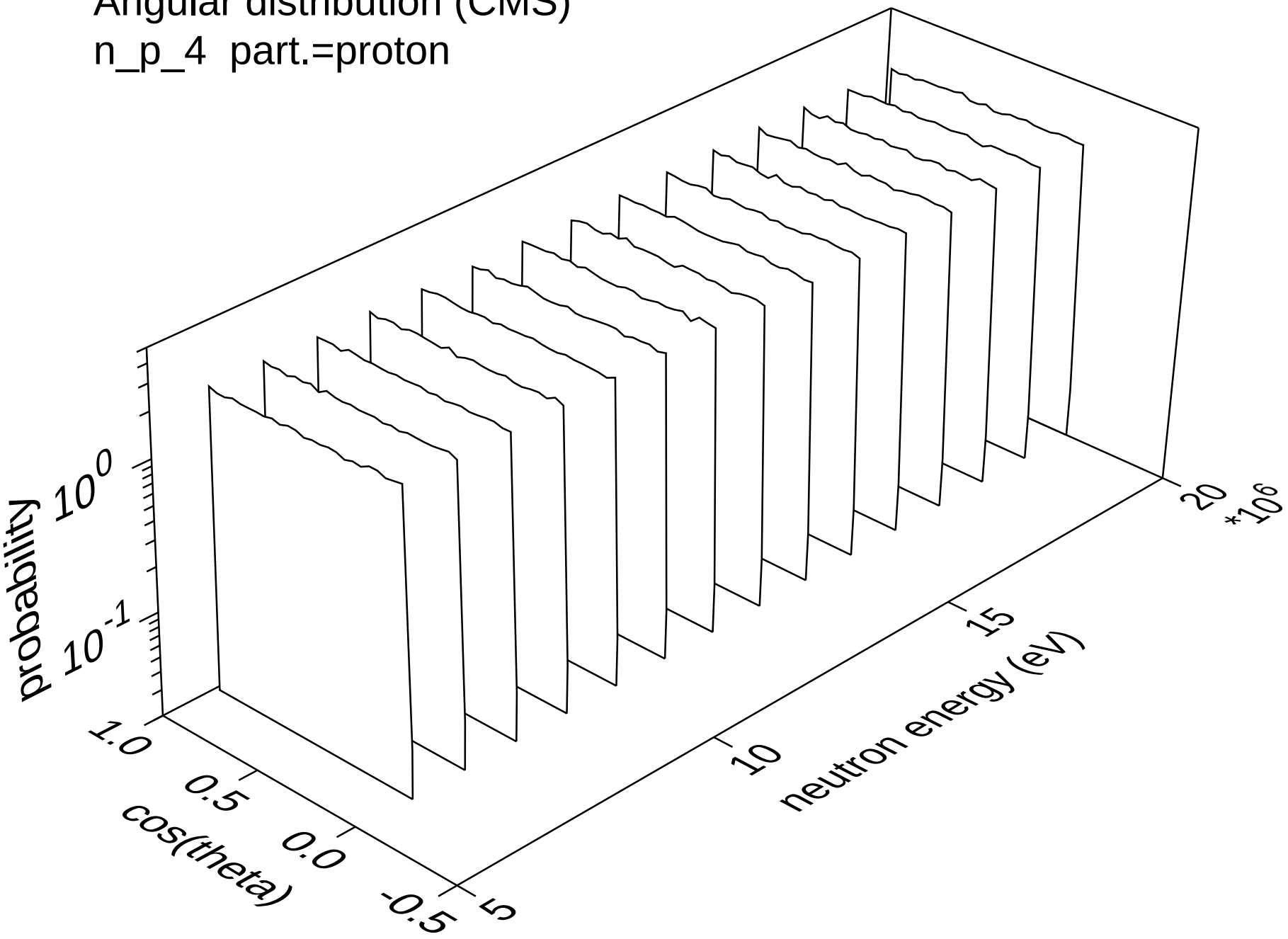

Angular distribution (CMS)
n_p_1 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

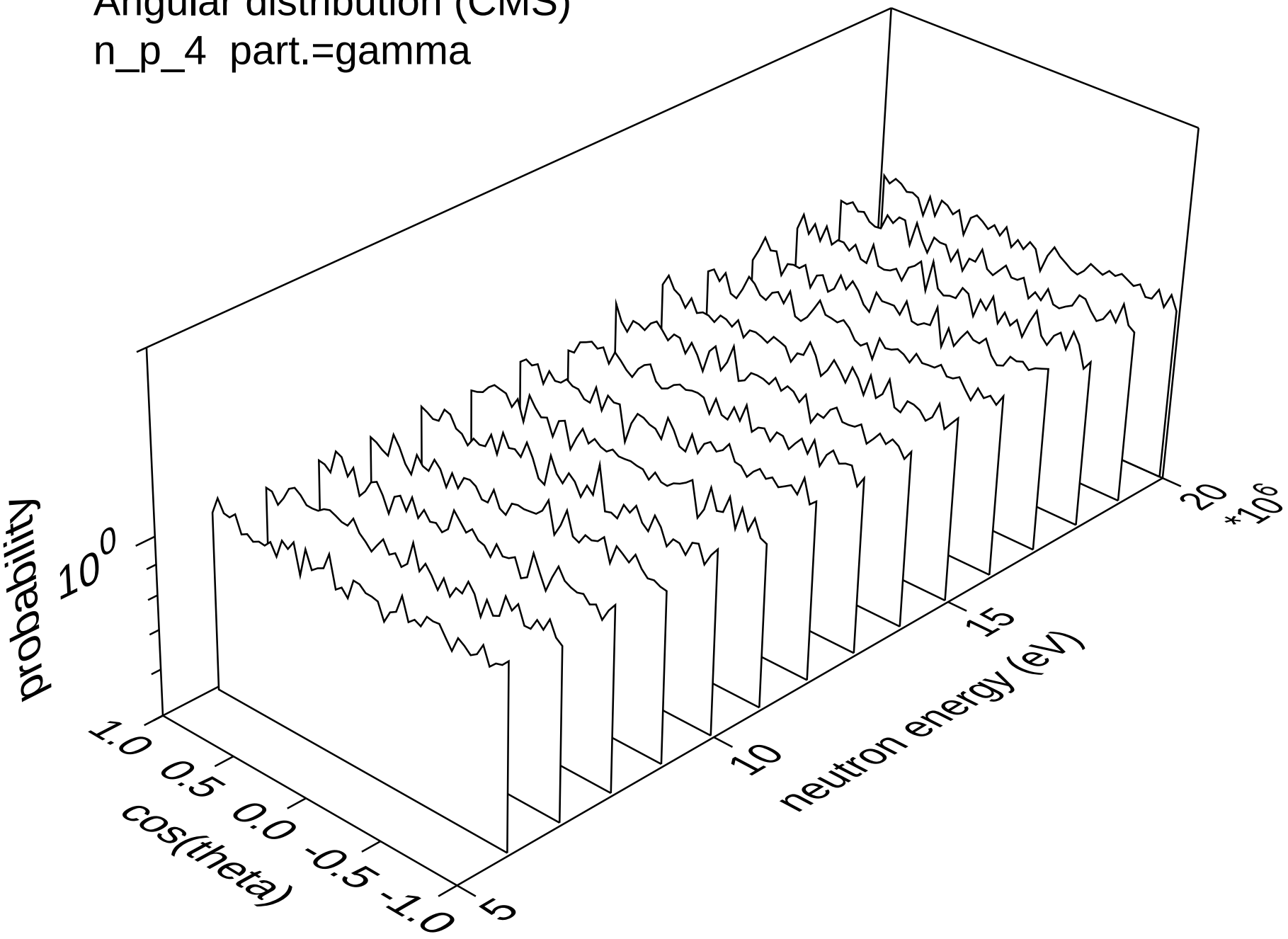

Angular distribution (CMS)
n_p_2 part.=proton
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

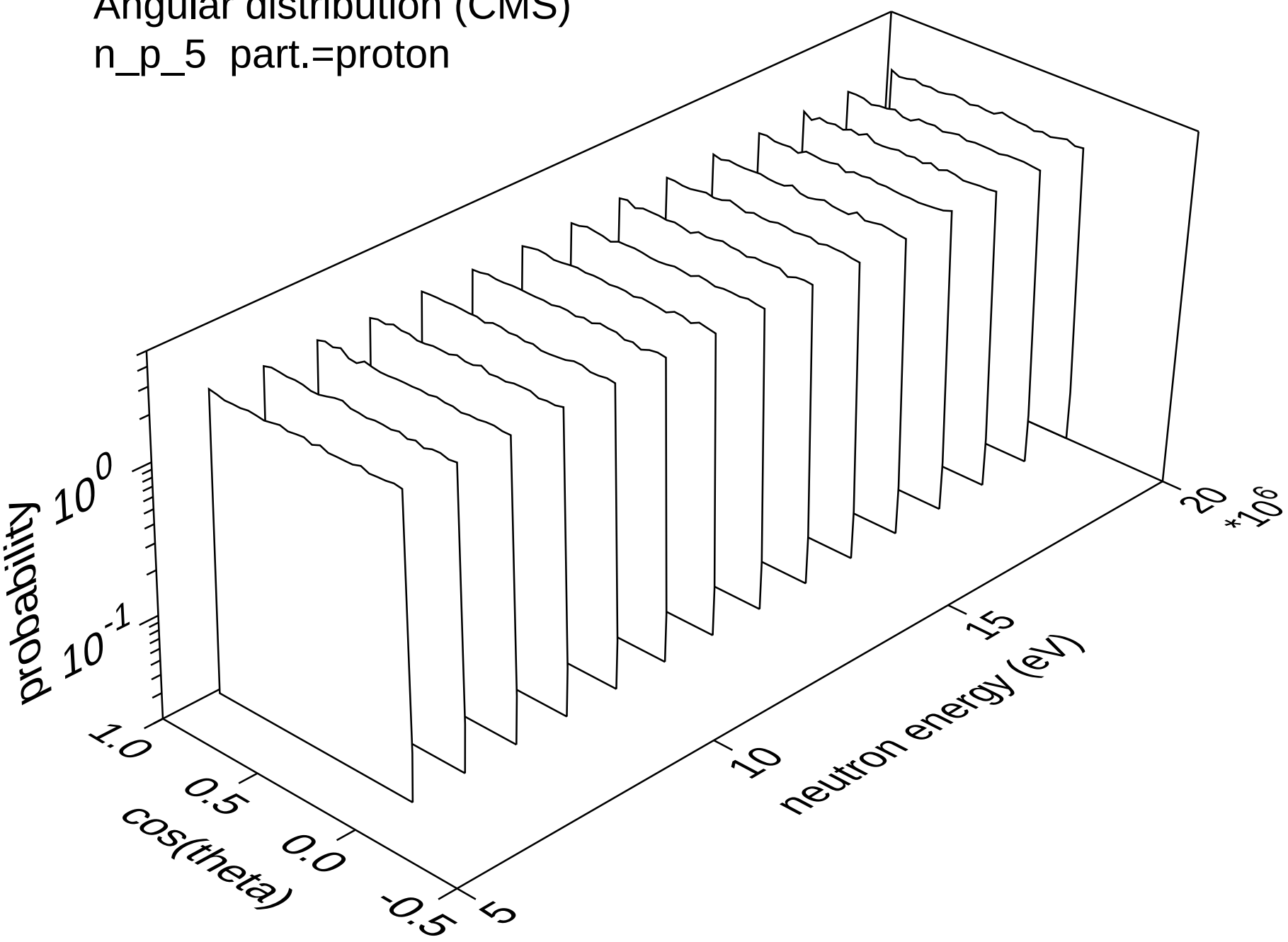

Angular distribution (CMS)
n_p_2 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

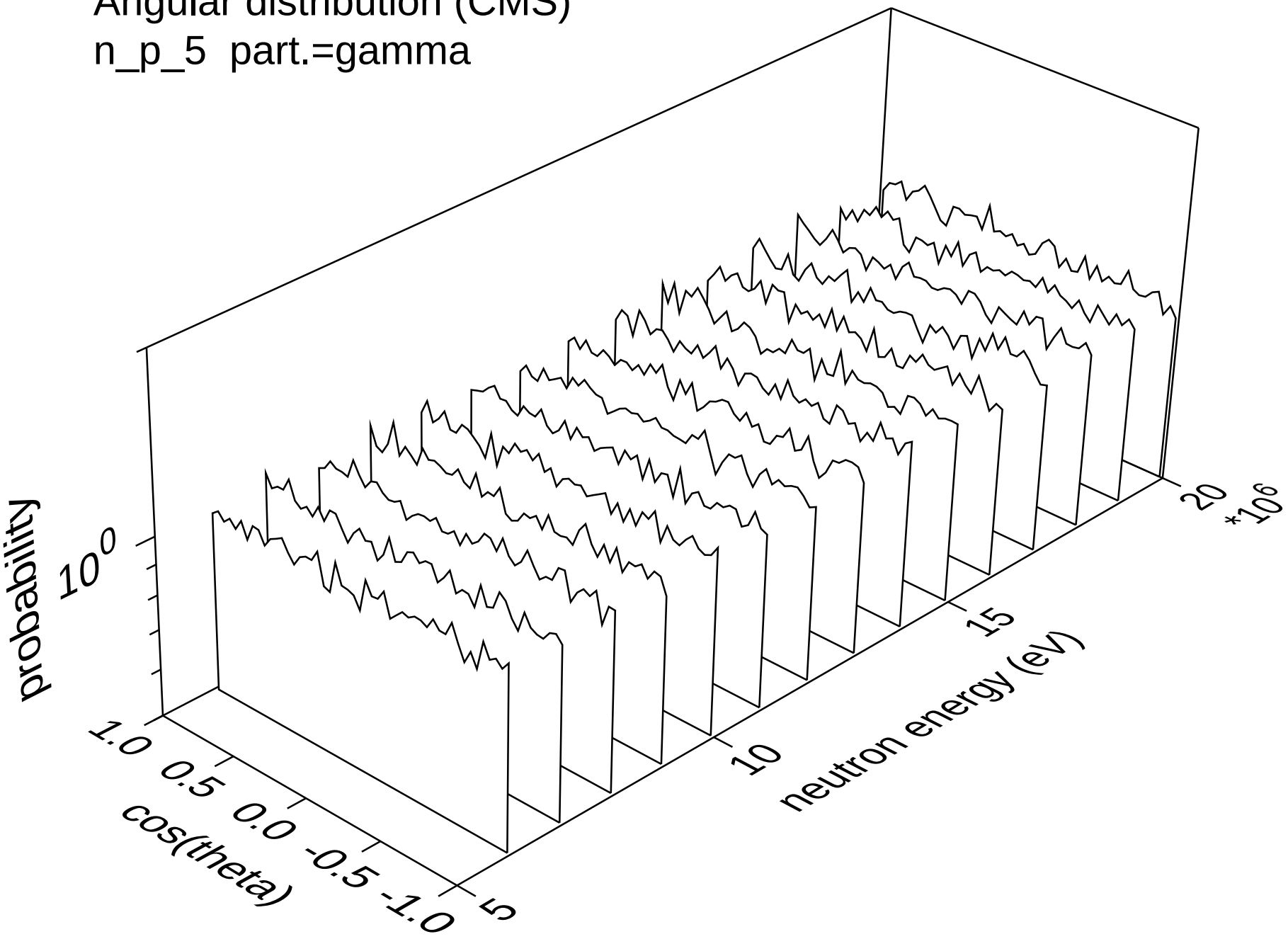

Angular distribution (CMS)
n_p_3 part.=proton
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

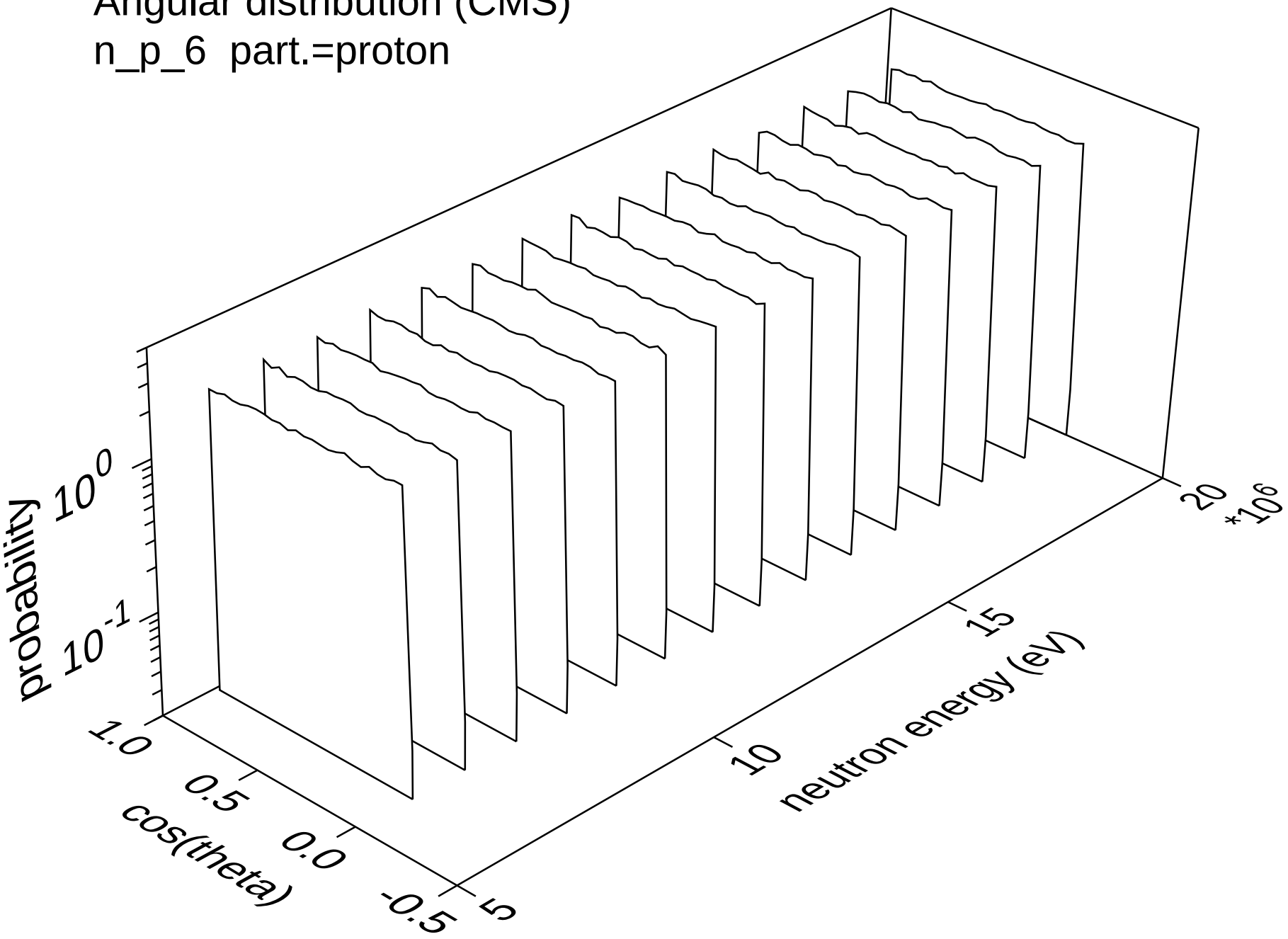

Angular distribution (CMS)
n_p_3 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

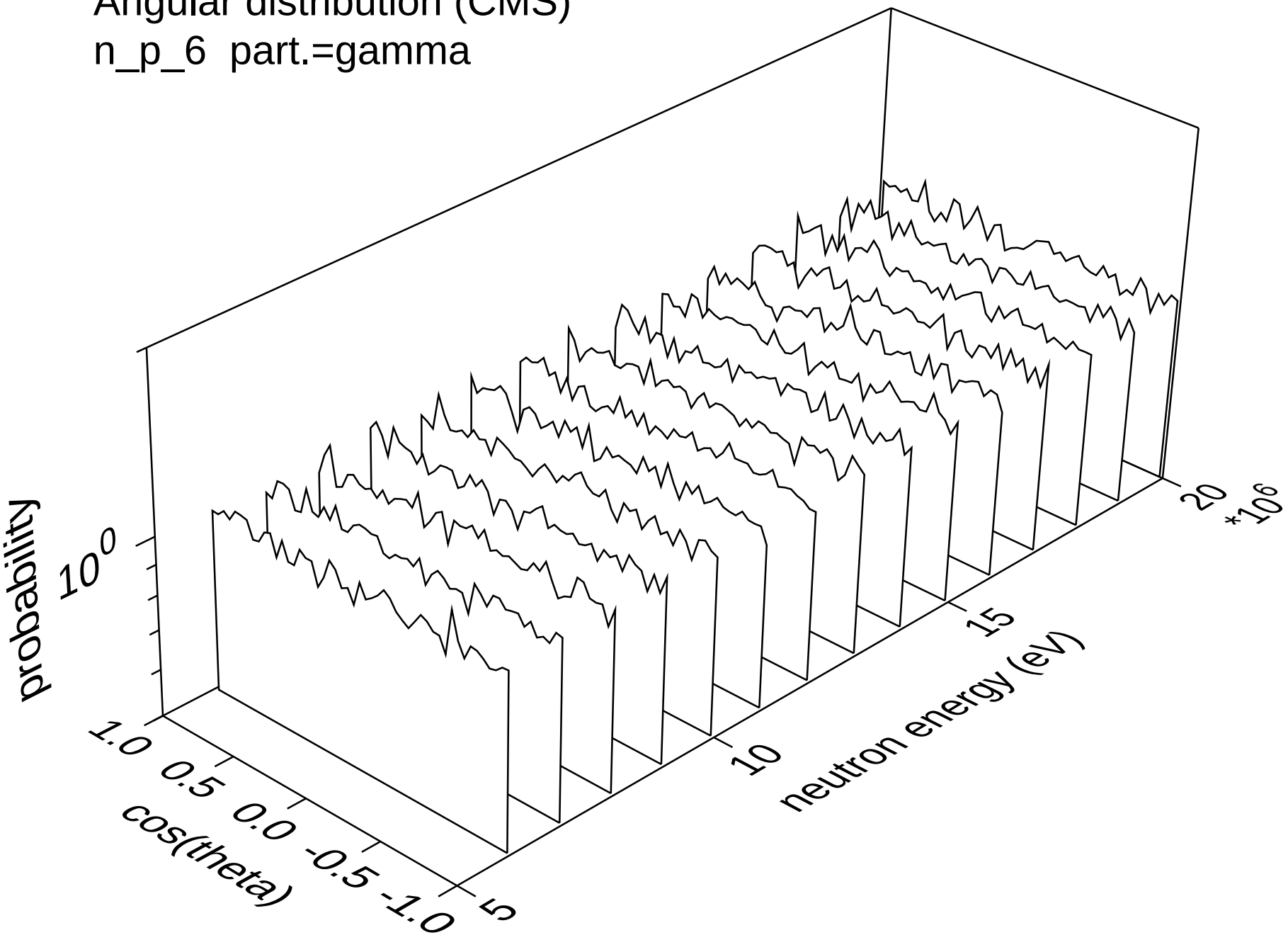

Angular distribution (CMS)
n_p_4 part.=proton
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

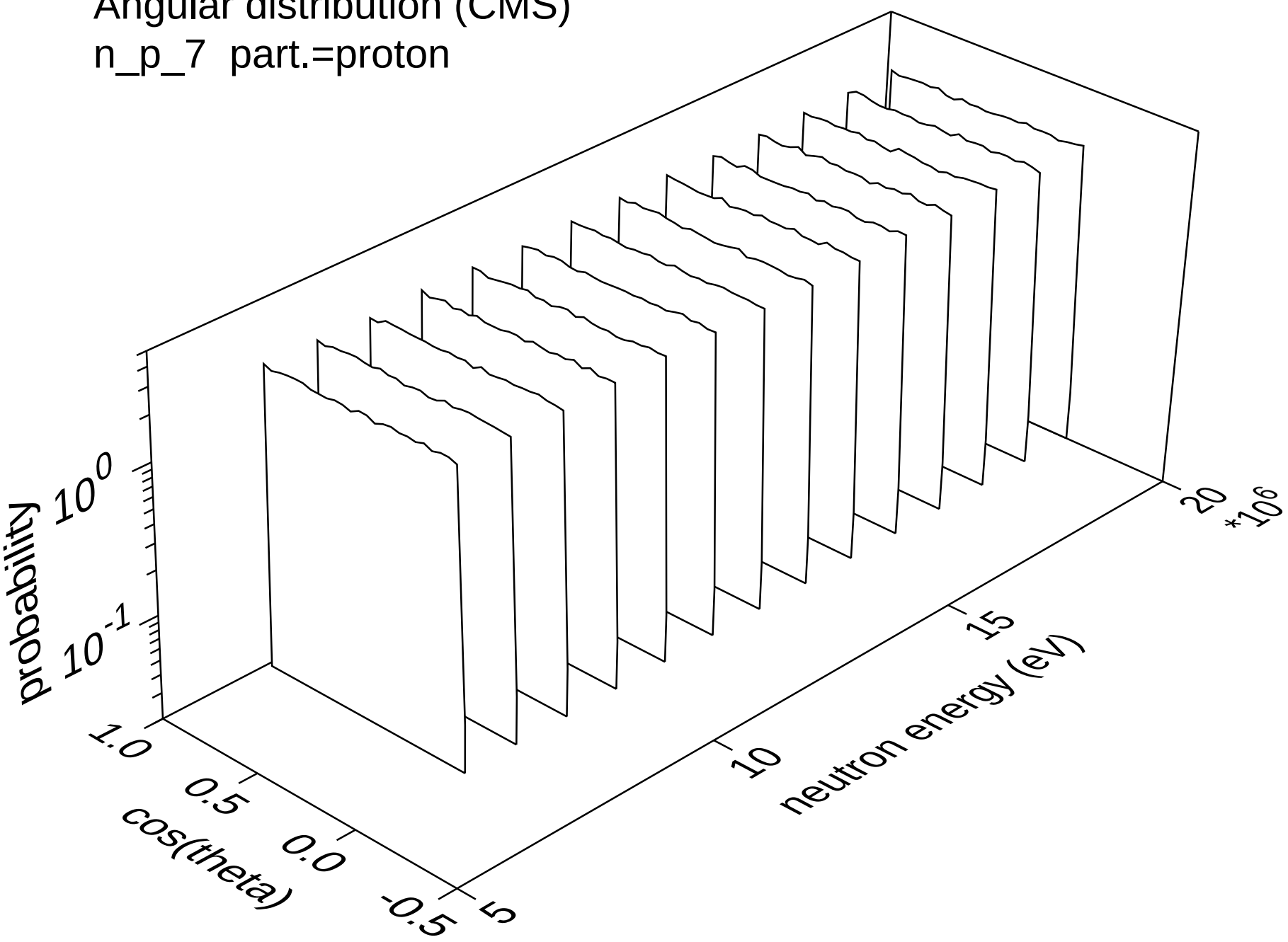

Angular distribution (CMS)
n_p_4 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

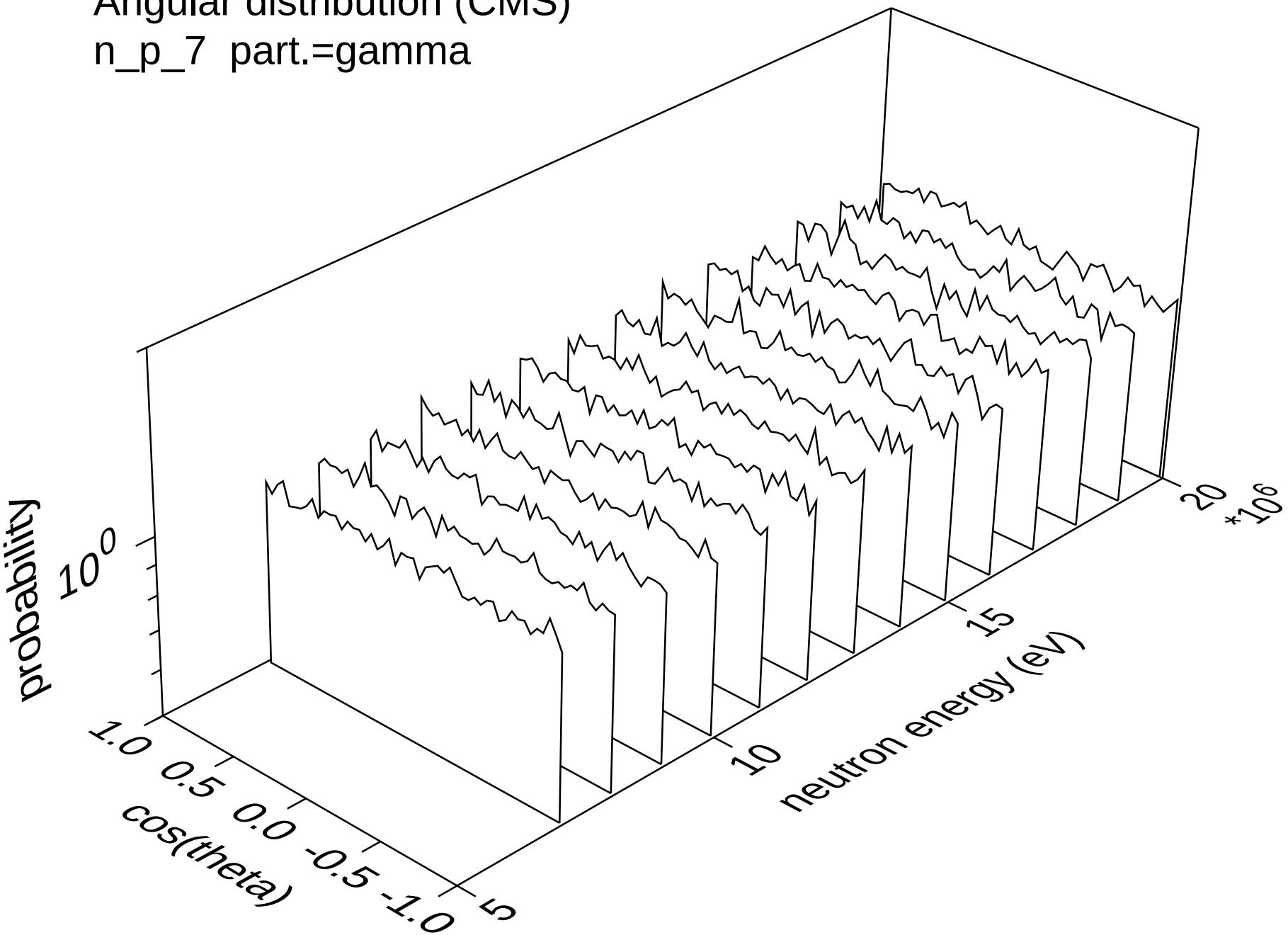

Angular distribution (CMS)
n_p_5 part.=proton
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

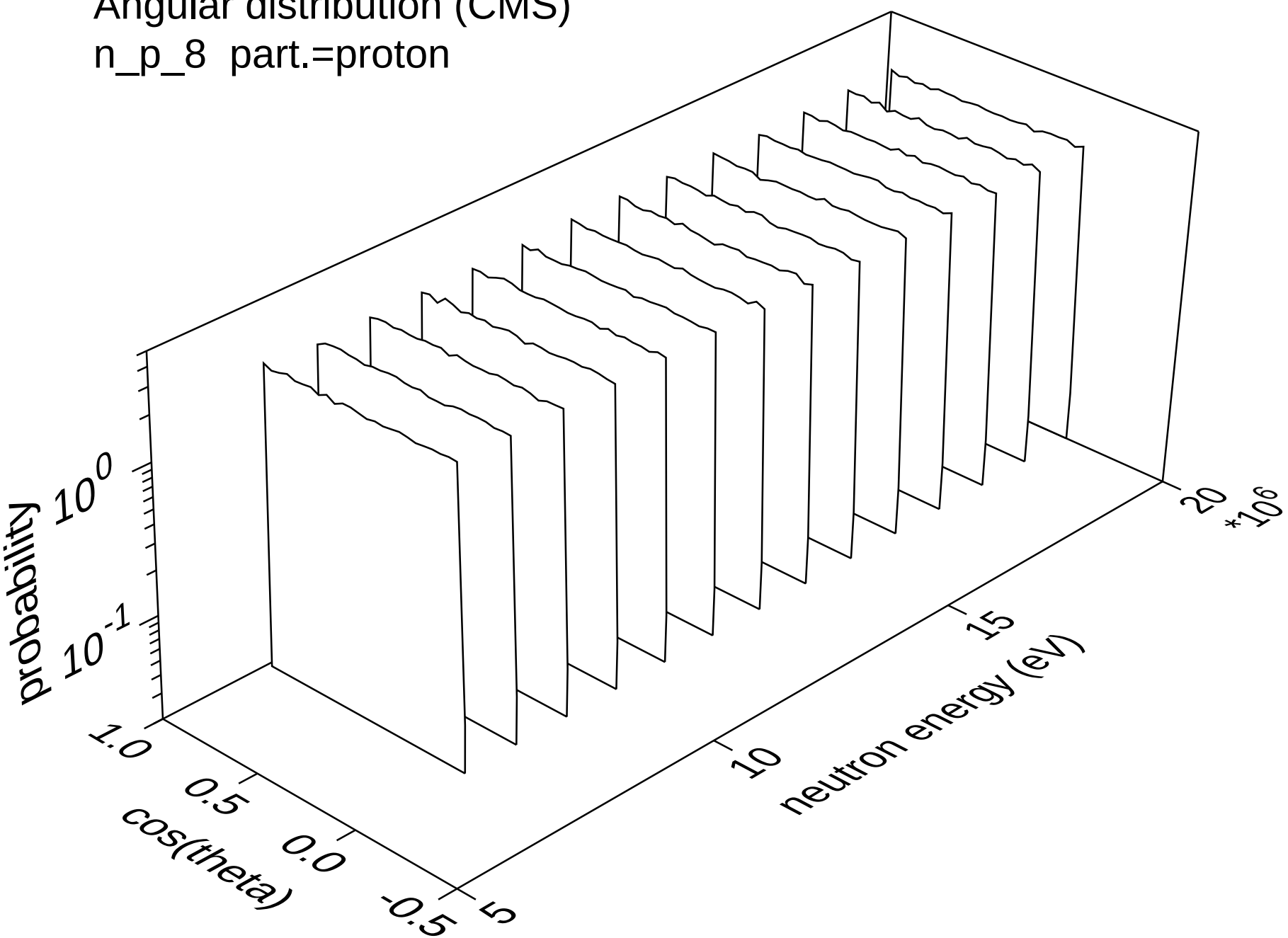

Angular distribution (CMS)
n_p_5 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

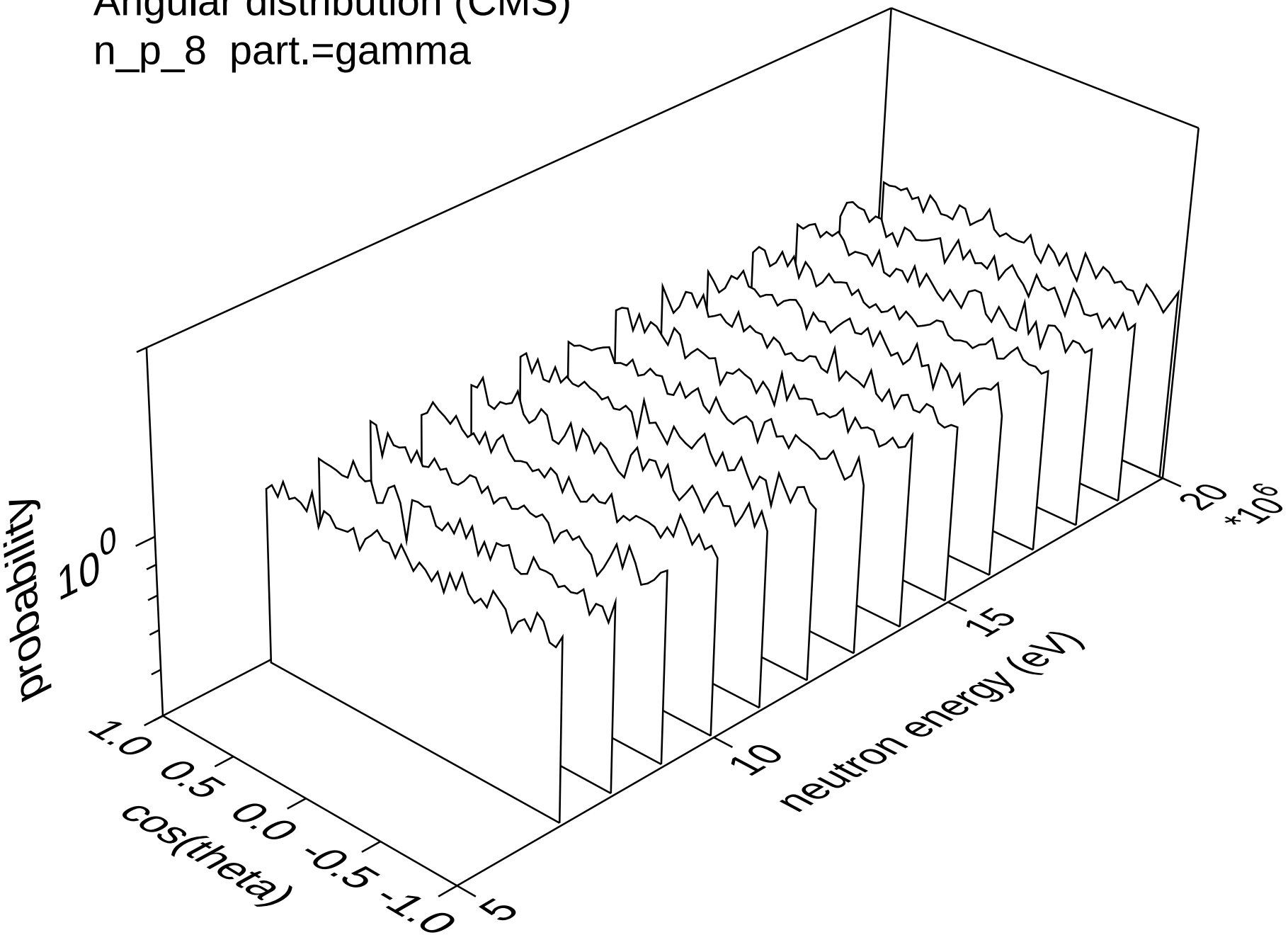

Angular distribution (CMS)
n_p_6 part.=proton
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

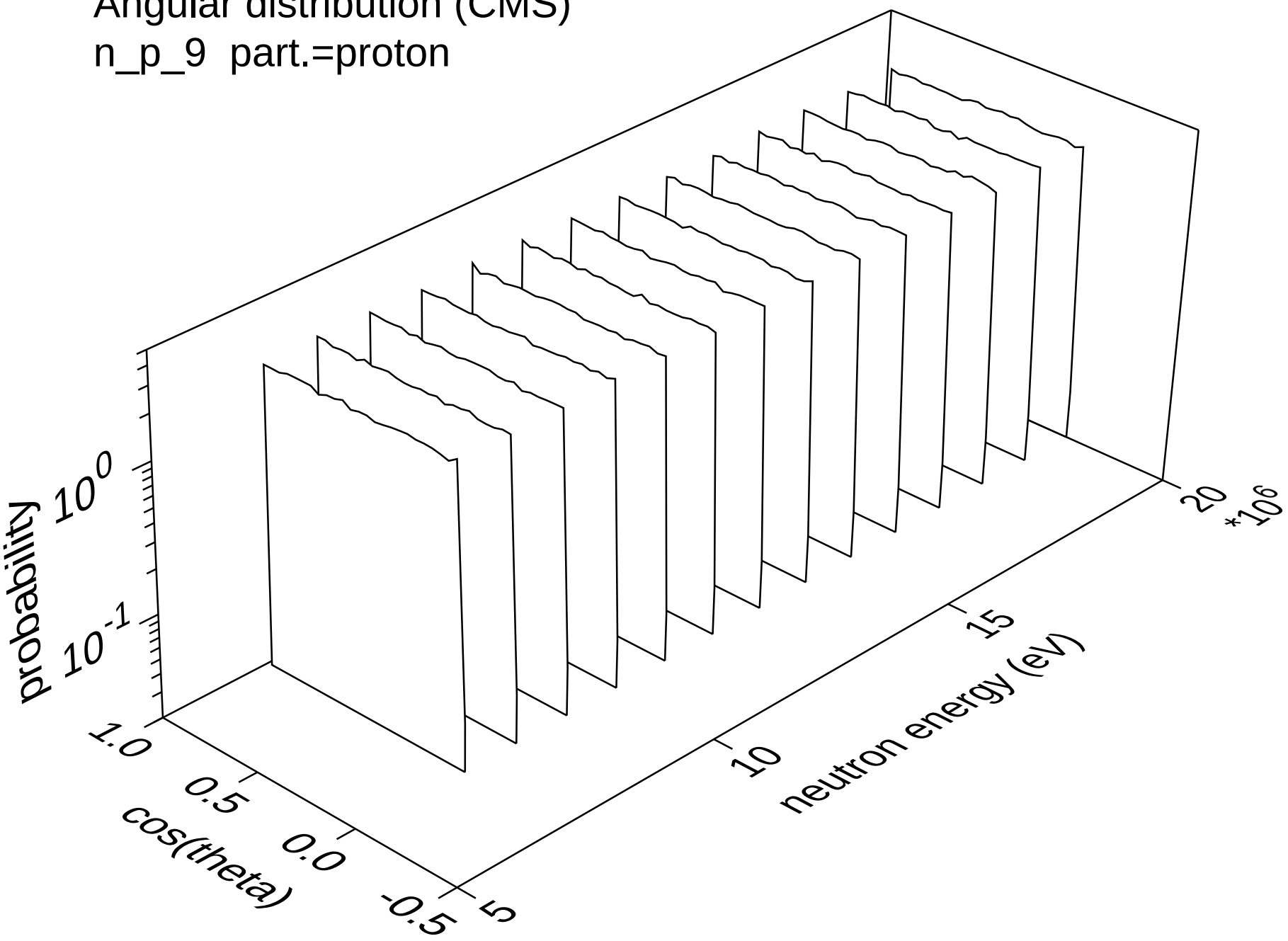

Angular distribution (CMS)
n_p_6 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

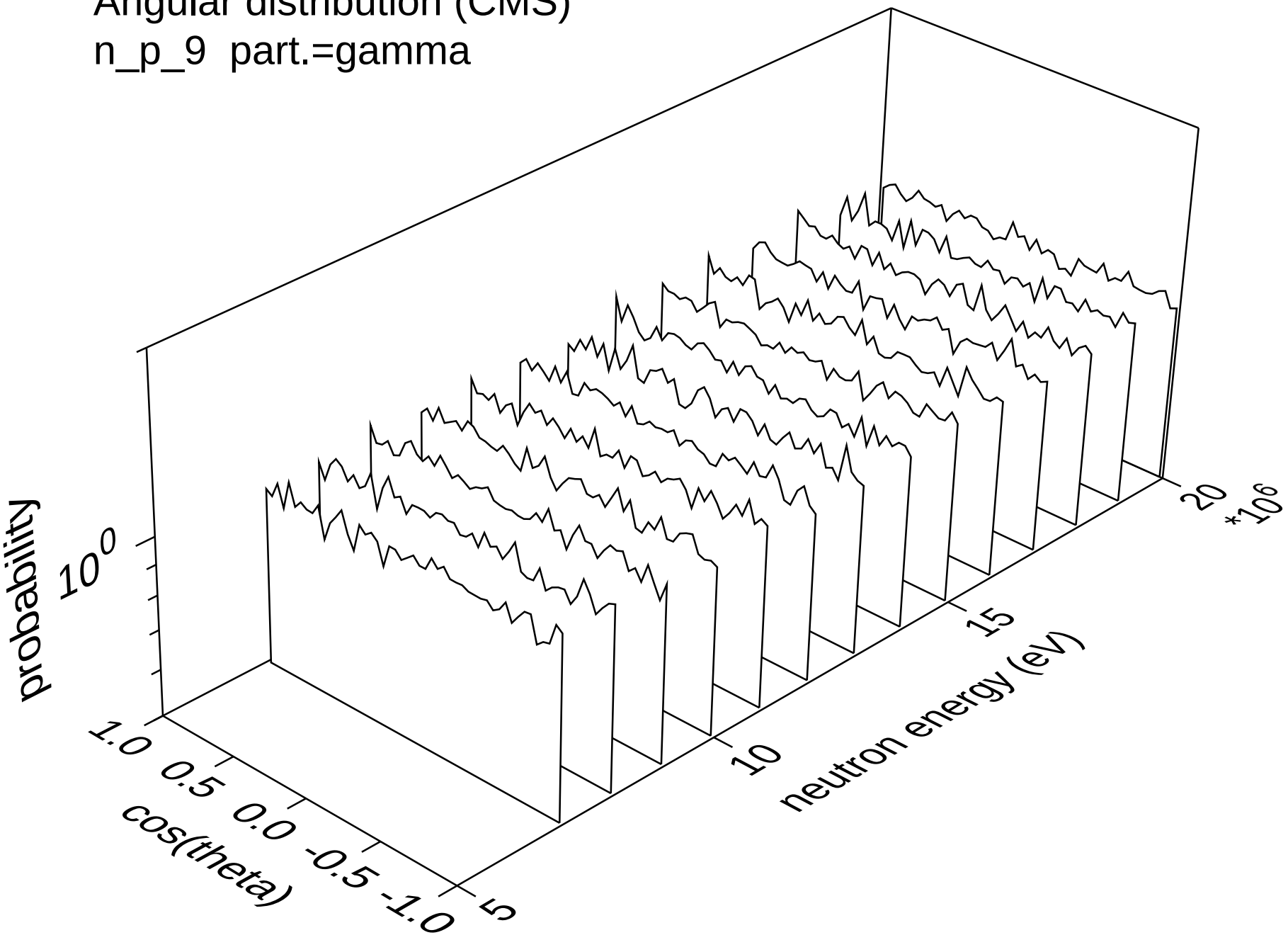

Angular distribution (CMS)
n_p_7 part.=proton
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

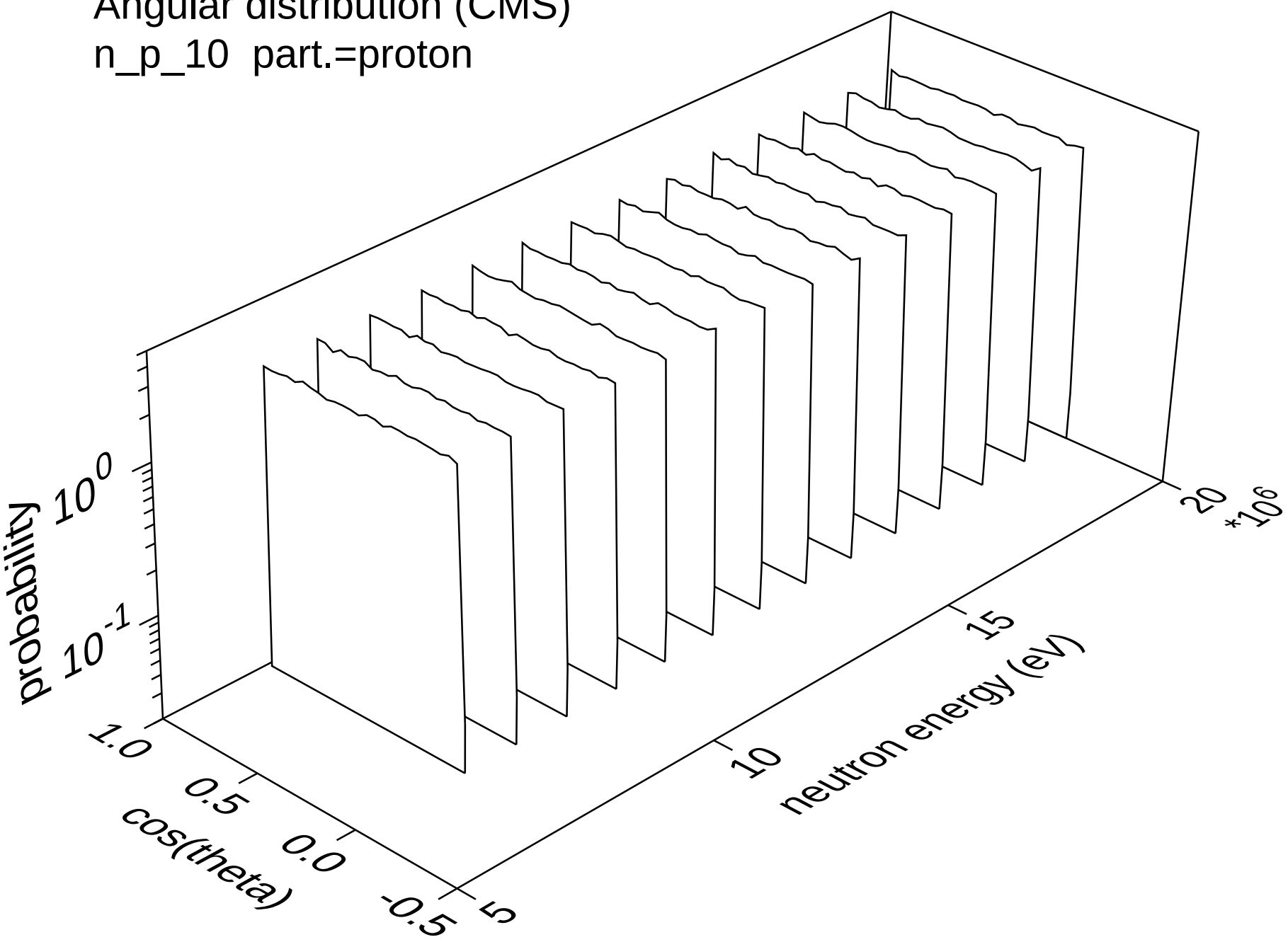

Angular distribution (CMS)
n_p_7 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

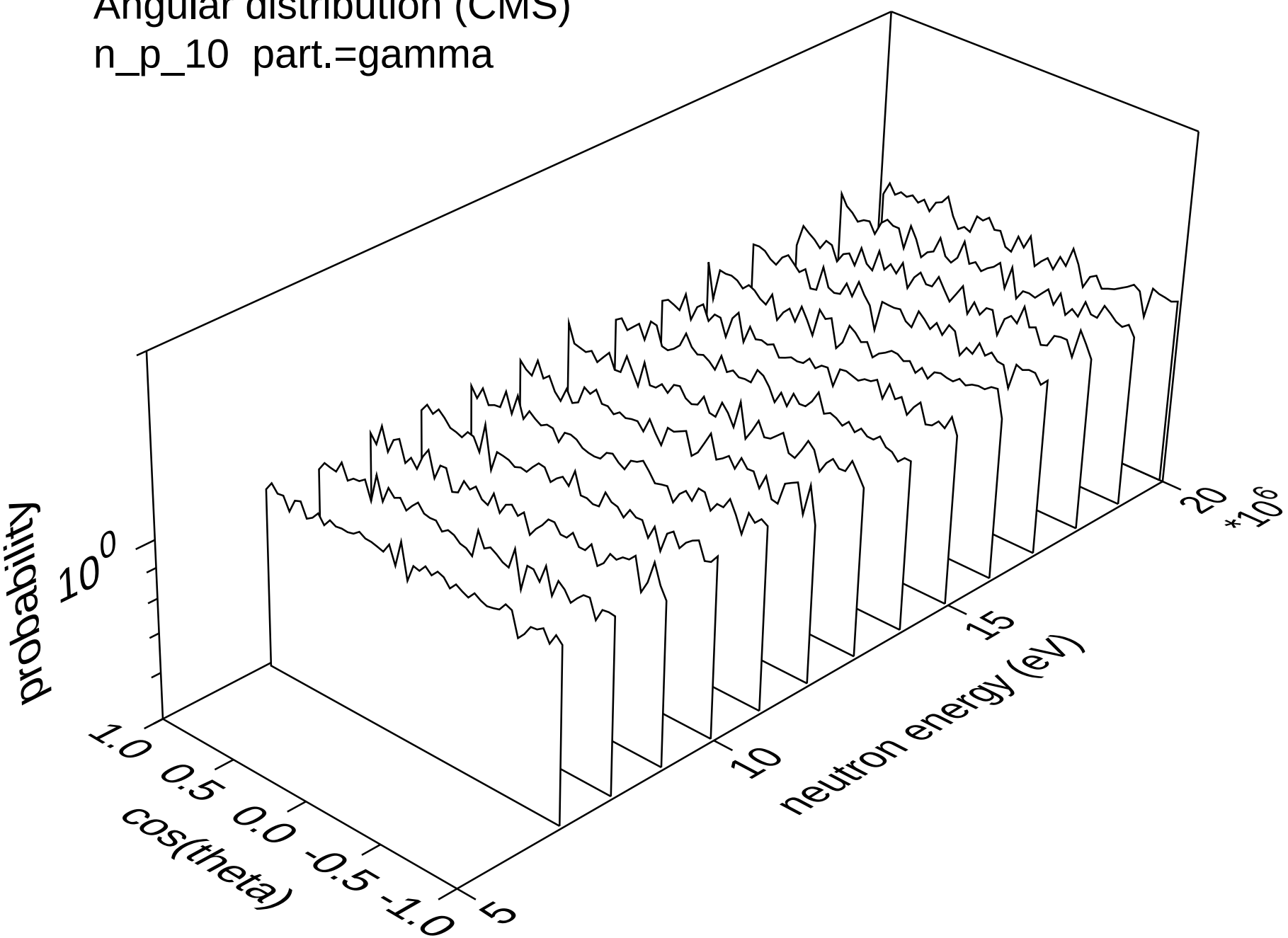

Angular distribution (CMS)
n_p_8 part.=proton
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

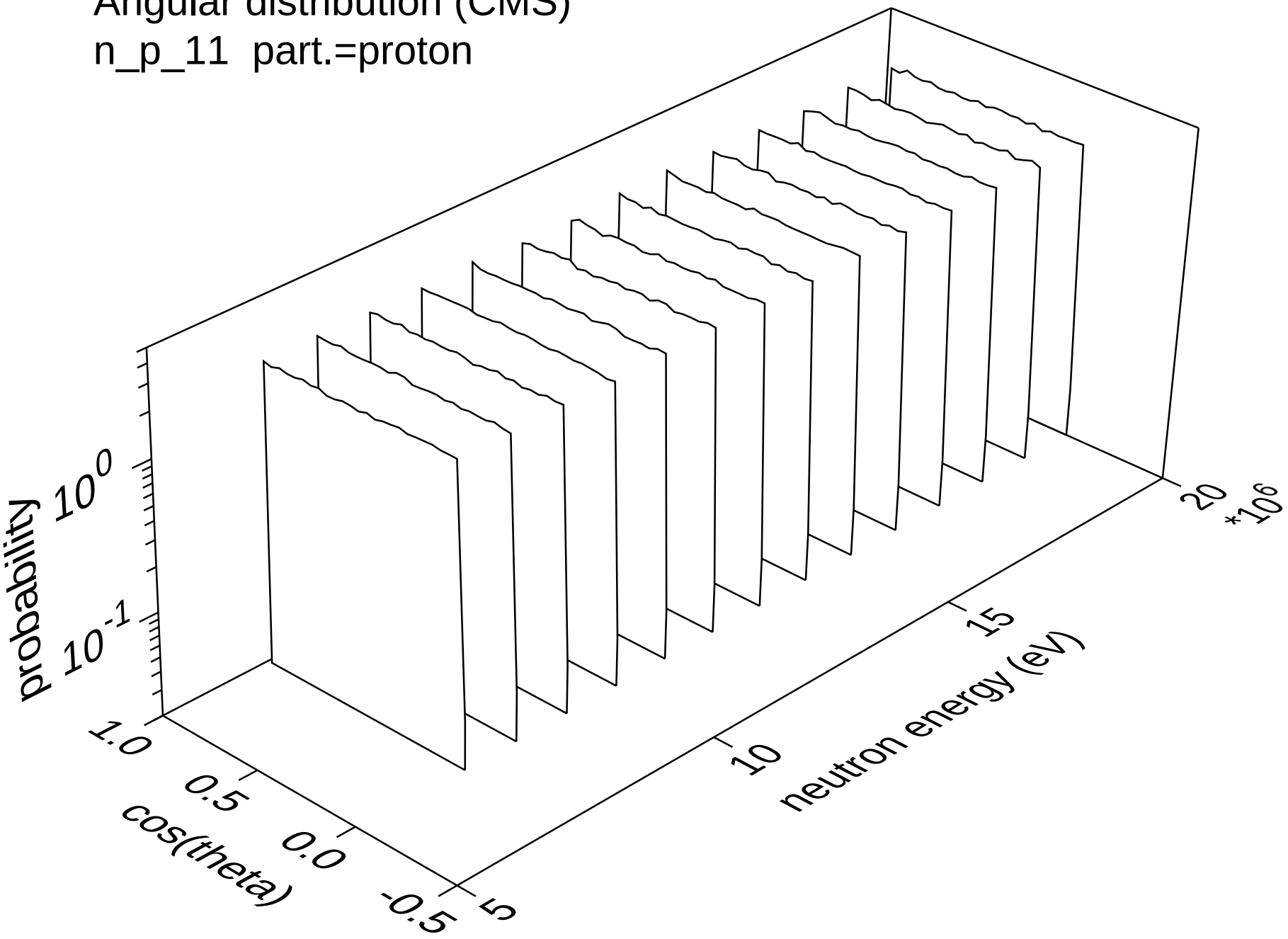

Angular distribution (CMS)
n_p_8 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

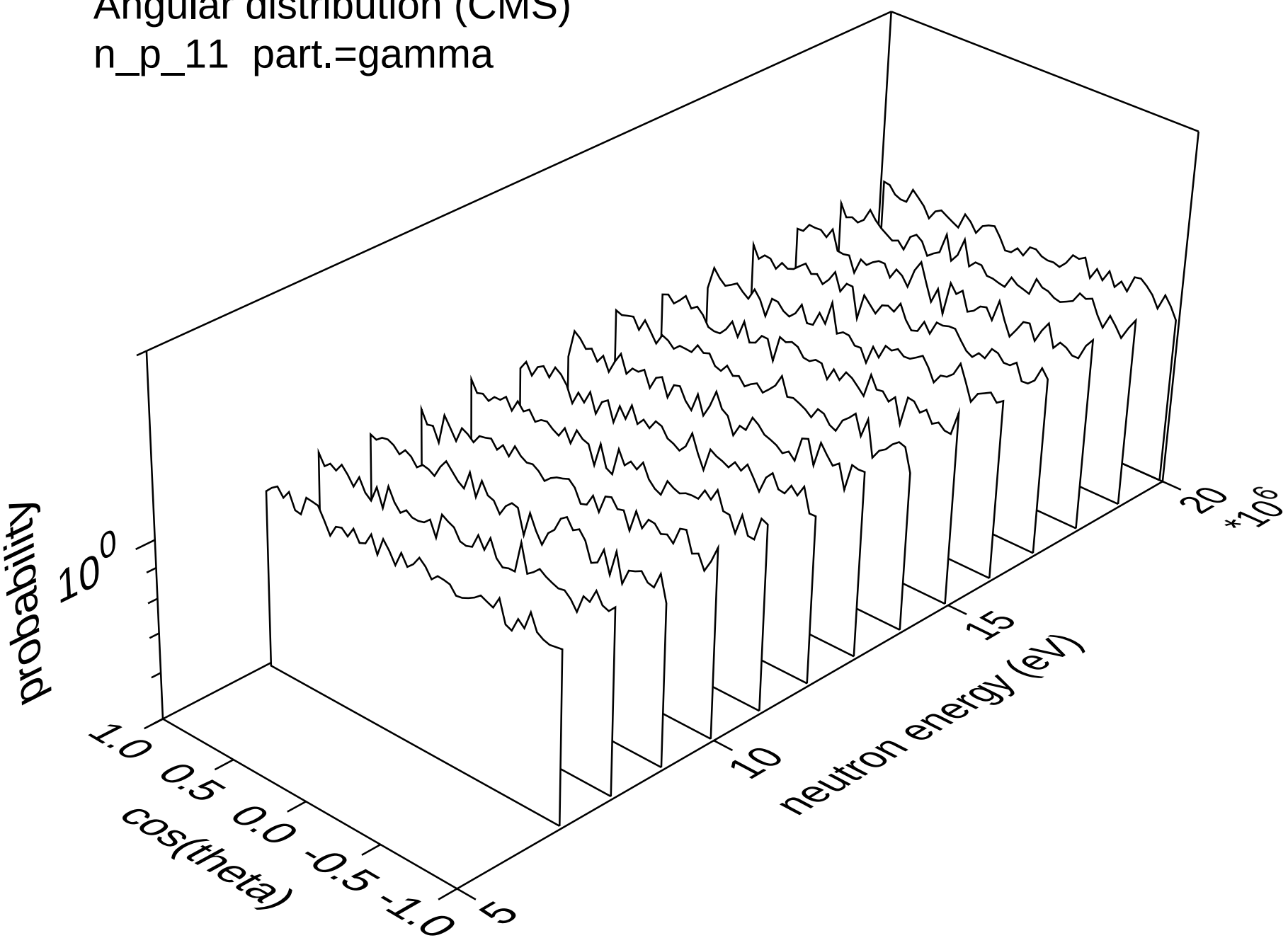

Angular distribution (CMS)
n_p_9 part.=proton
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

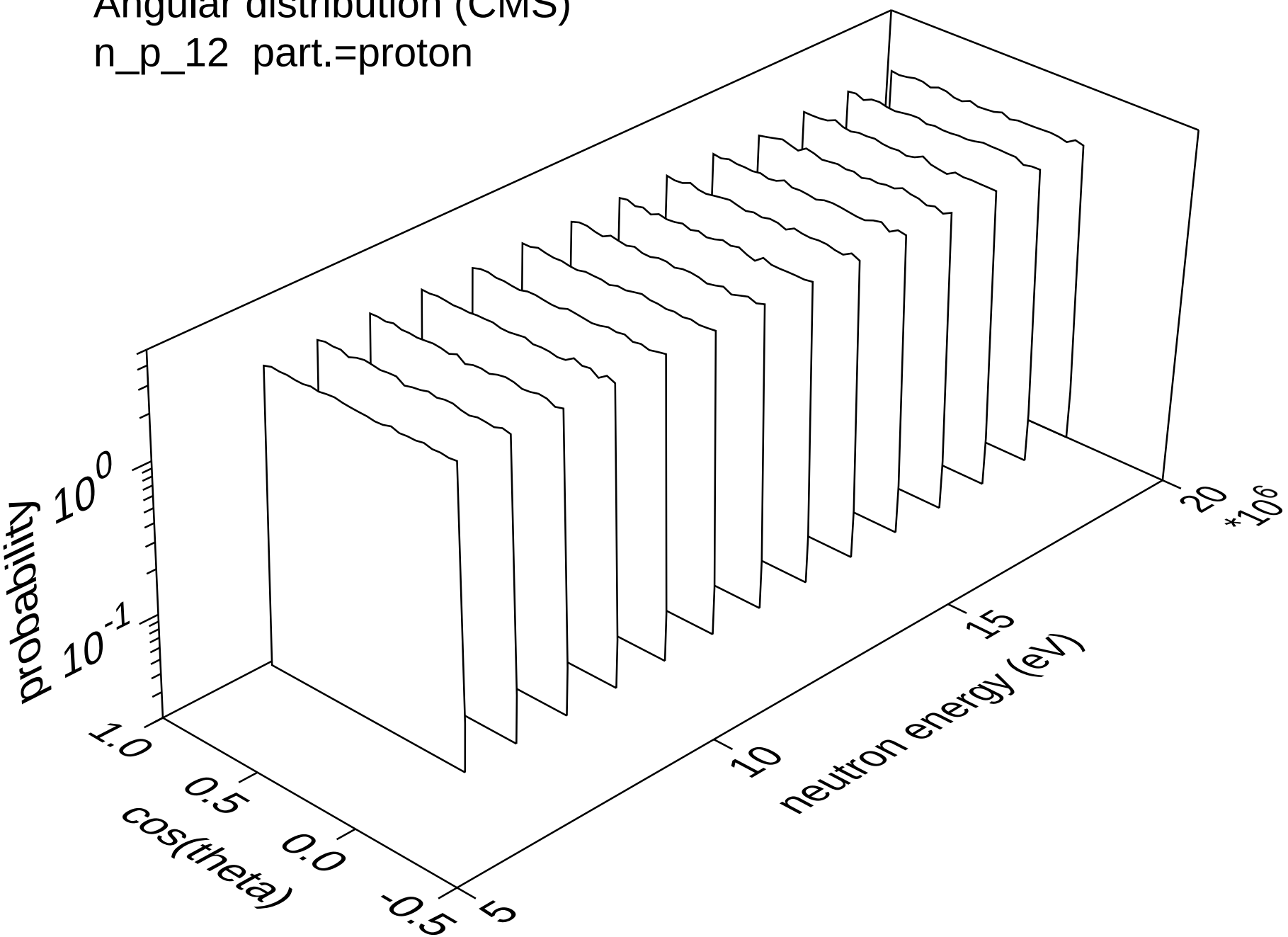

Angular distribution (CMS)
n_p_9 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

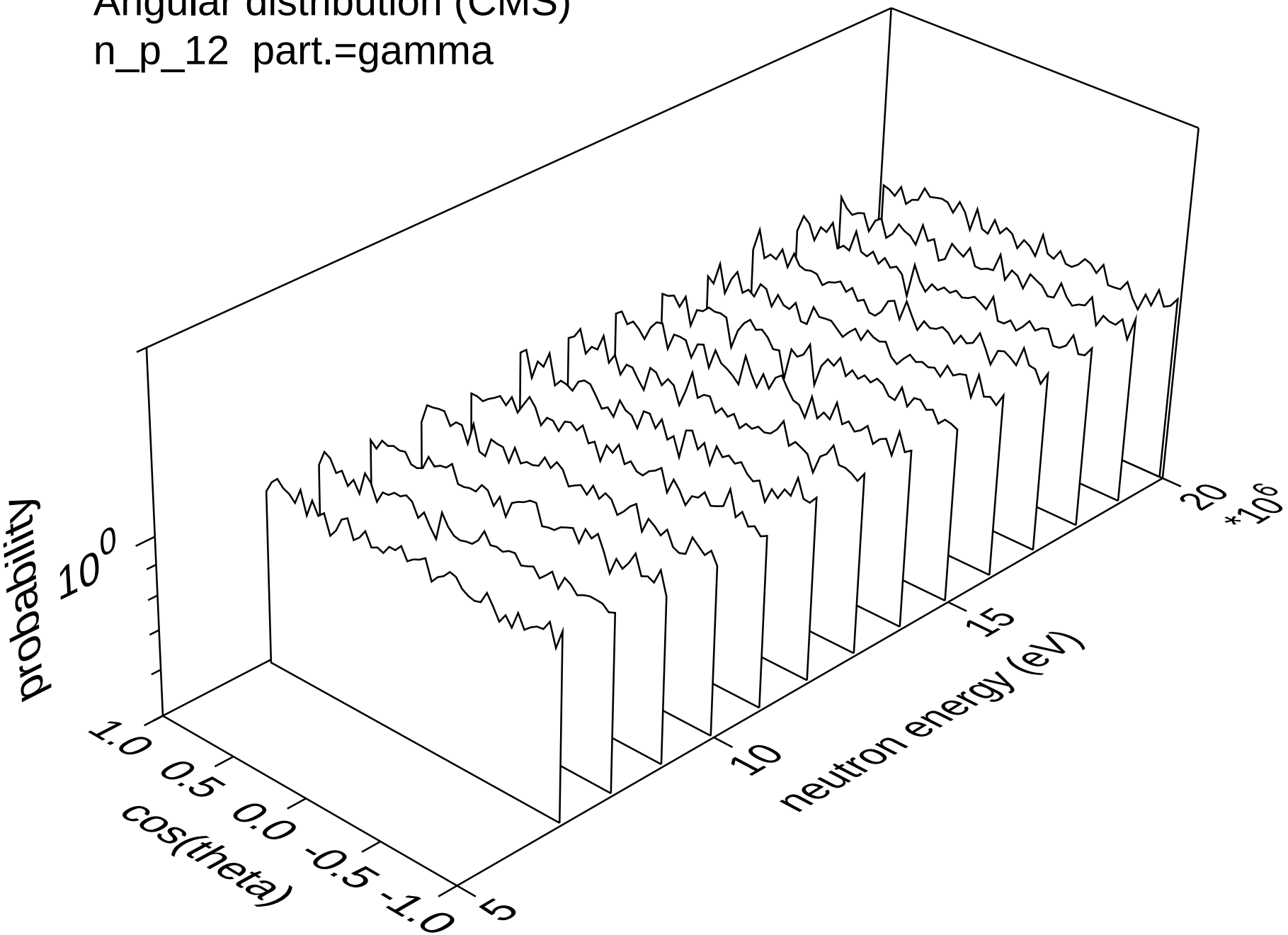

Angular distribution (CMS)
n_p_10 part.=proton
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

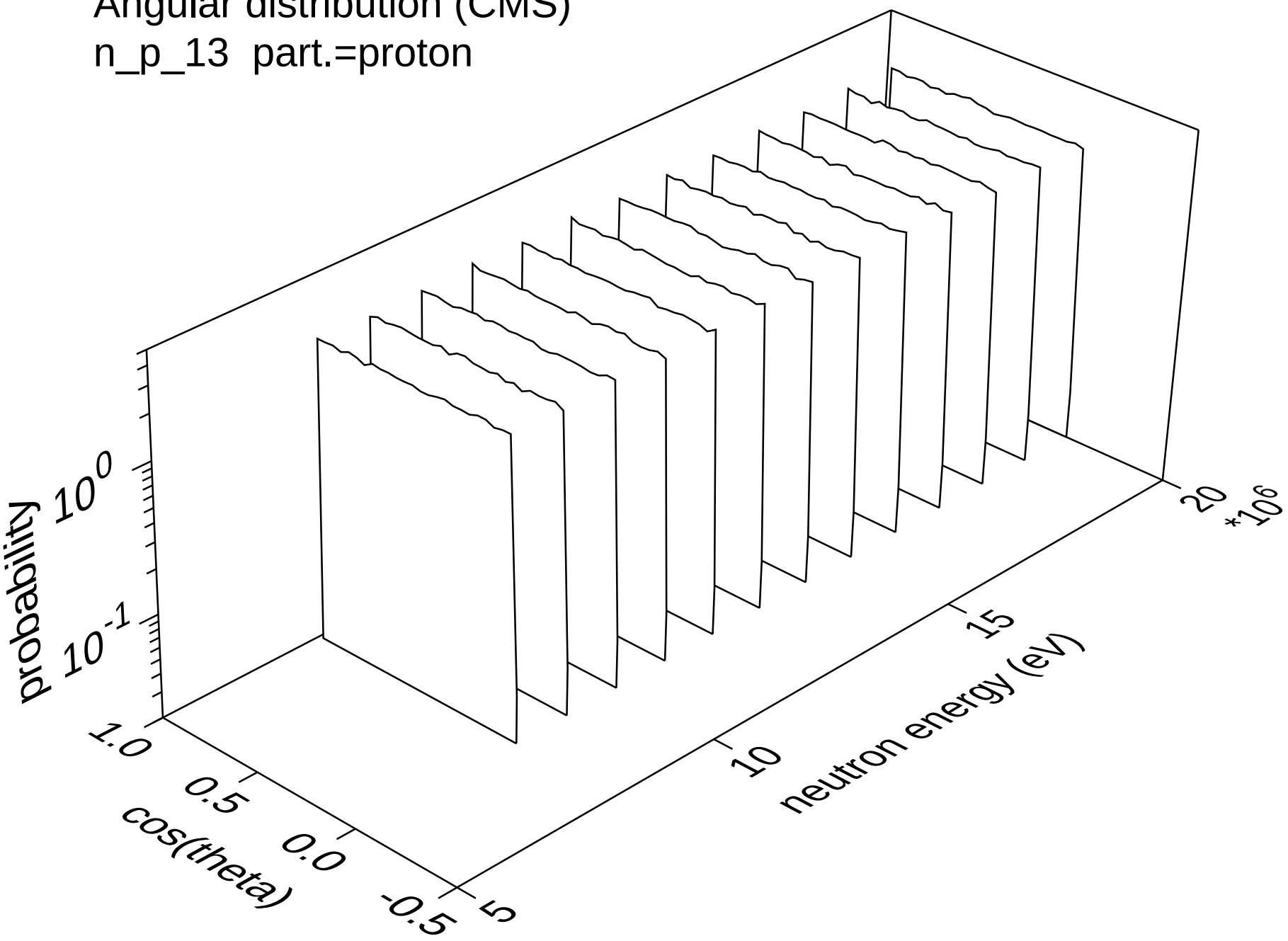

Angular distribution (CMS)
n_p_10 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

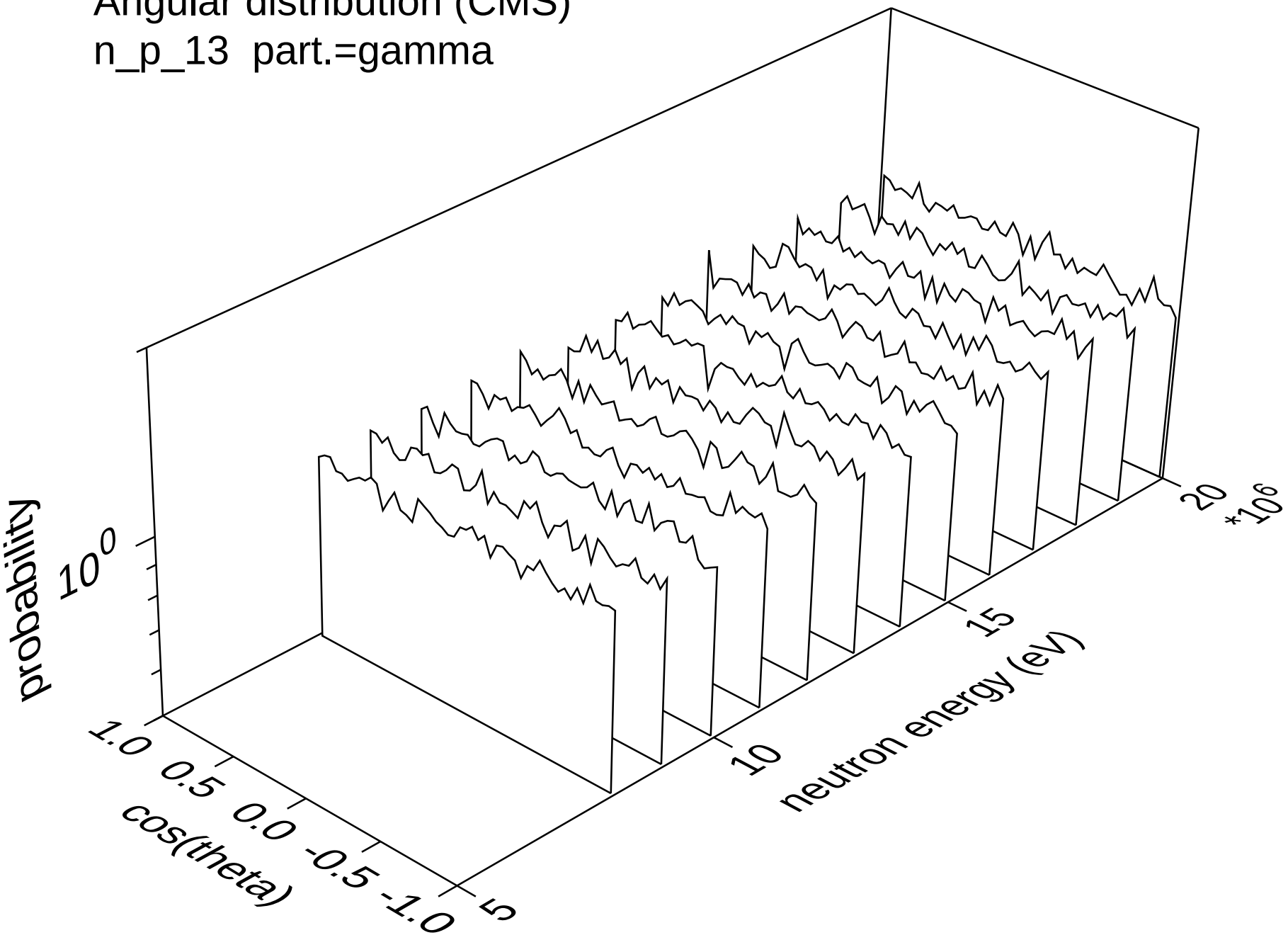

Angular distribution (CMS)
n_p_11 part.=proton
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

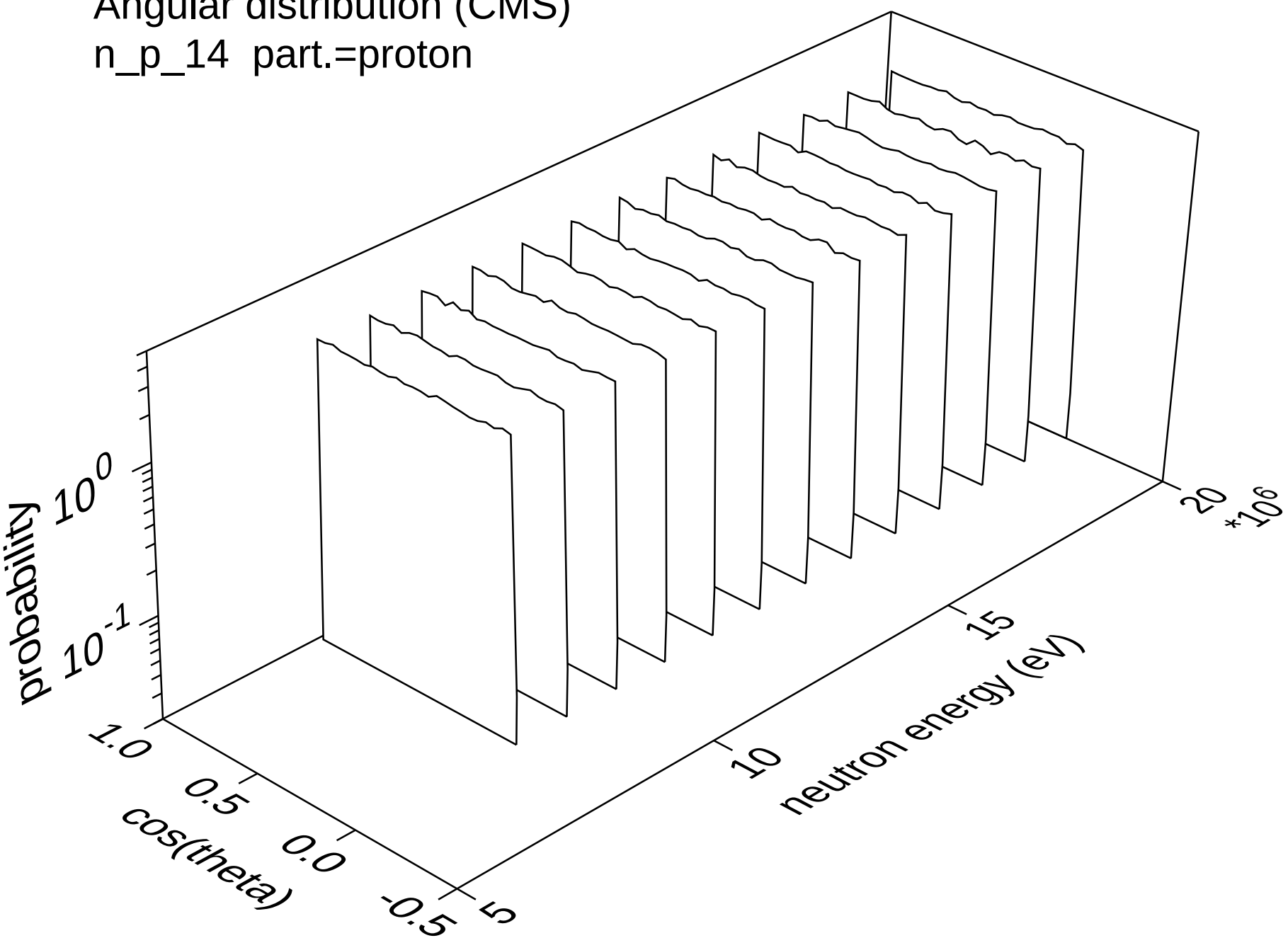

Angular distribution (CMS)
n_p_11 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

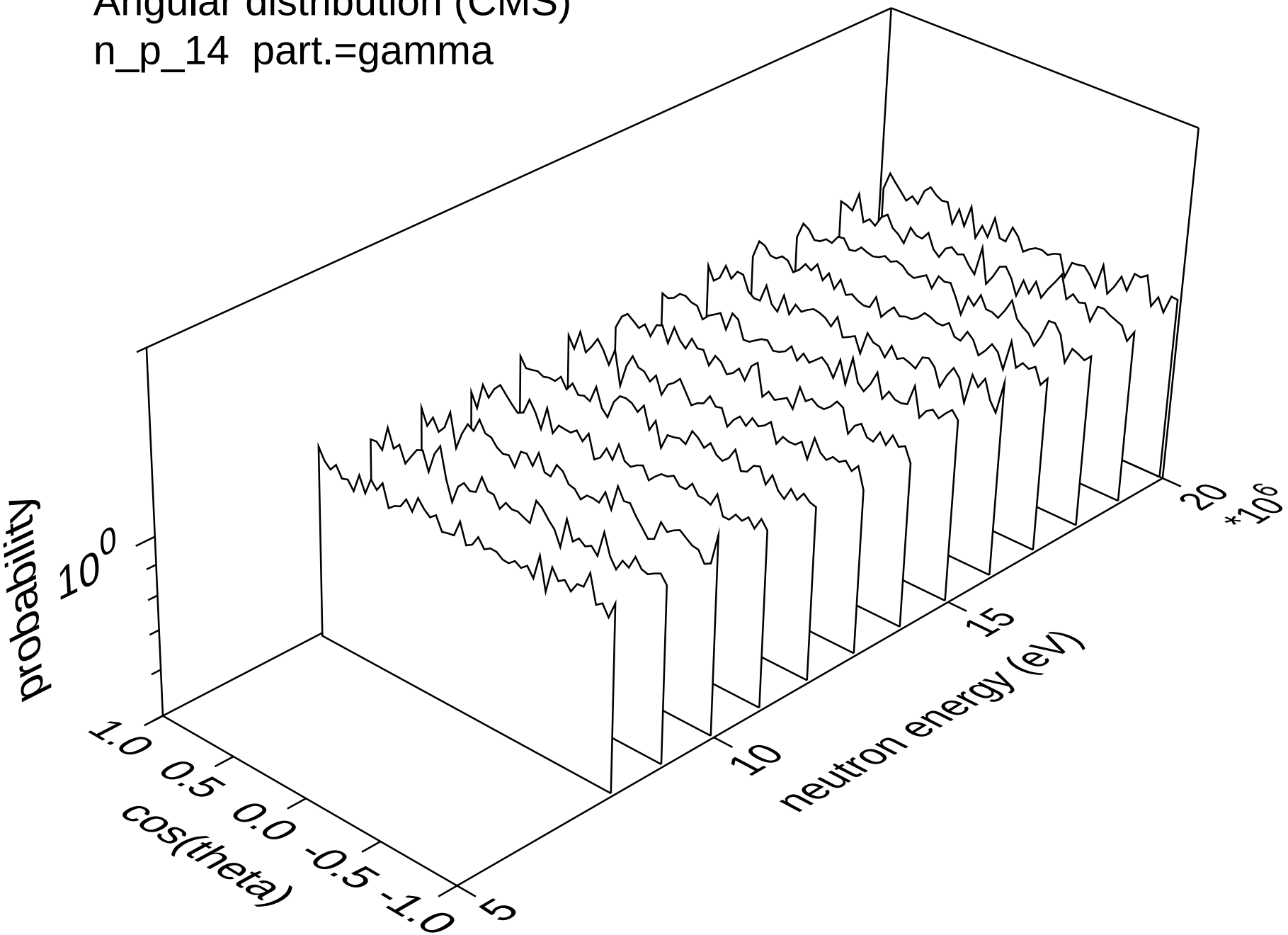

Angular distribution (CMS)
n_p_12 part.=proton
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

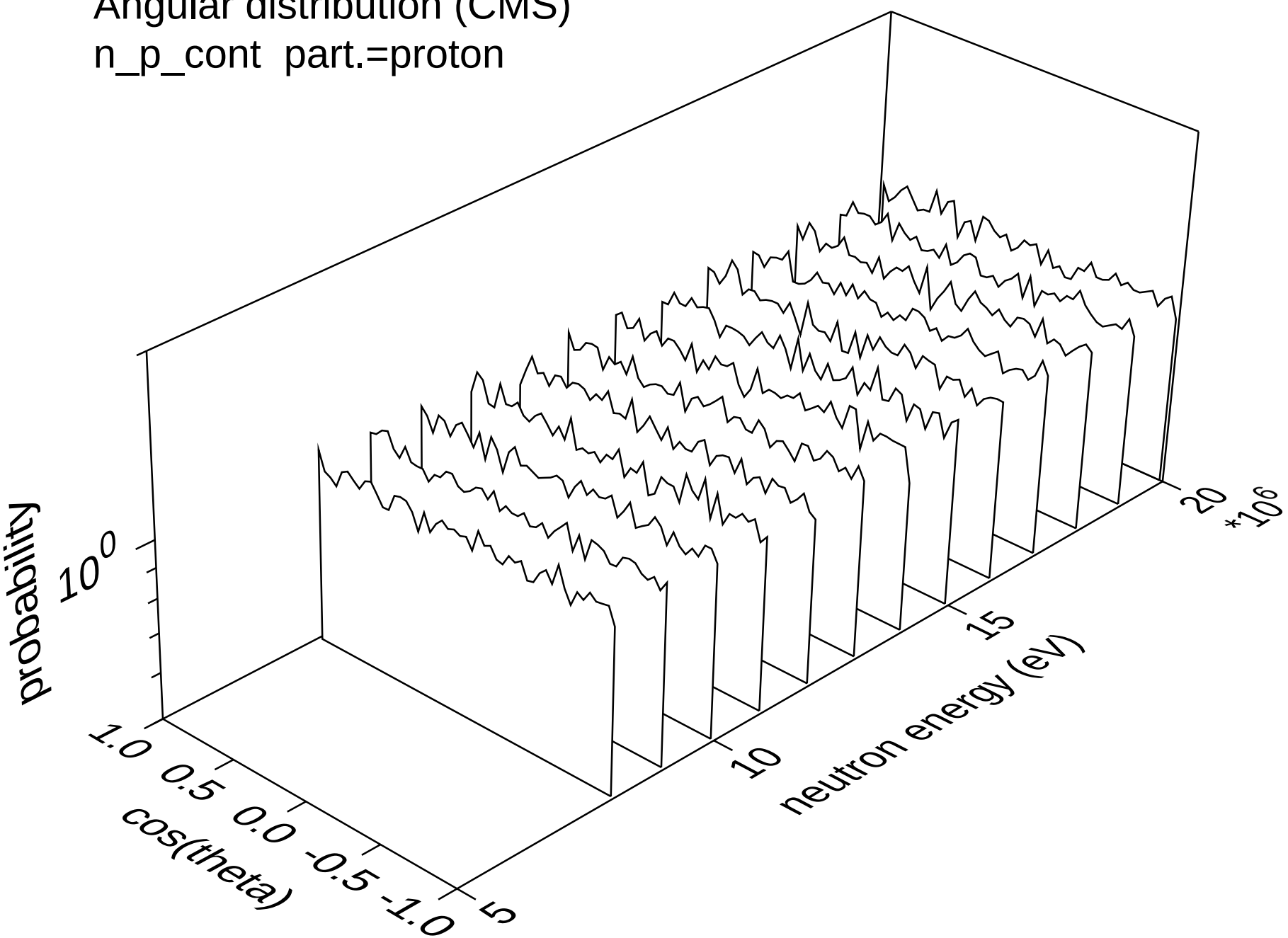

Angular distribution (CMS)
n_p_12 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

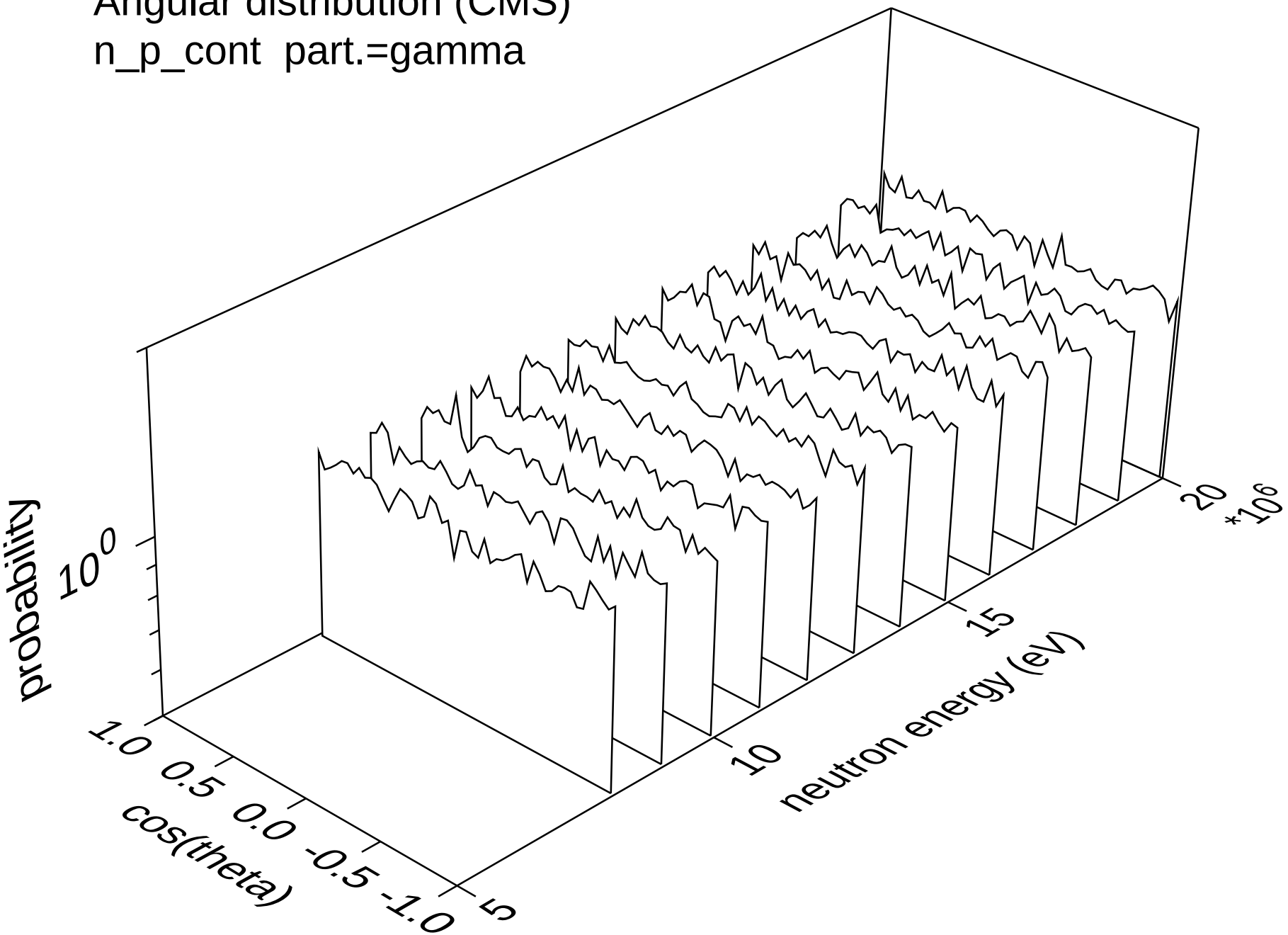

Angular distribution (CMS)
n_p_13 part.=proton
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

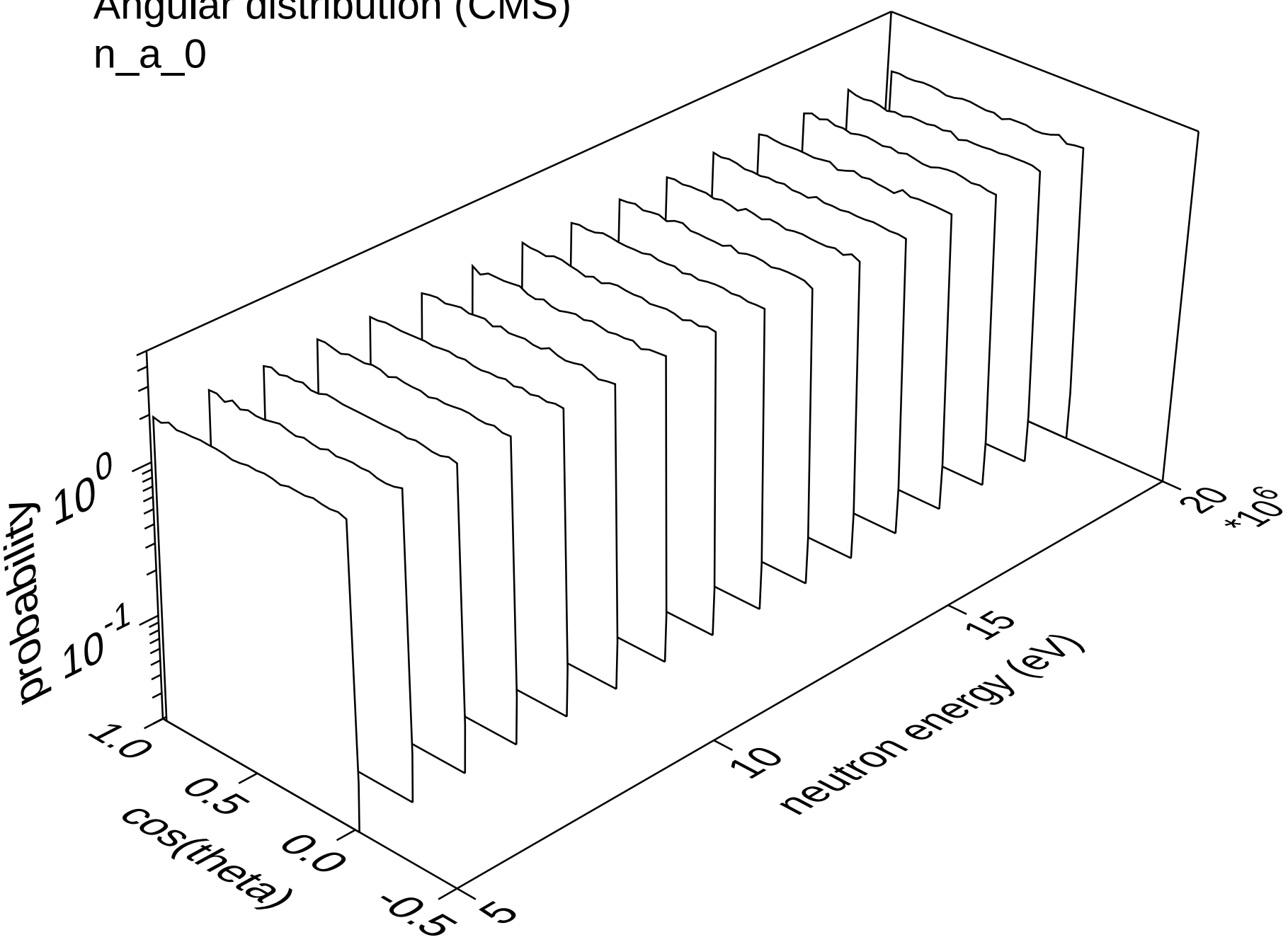

Angular distribution (CMS)
n_p_13 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

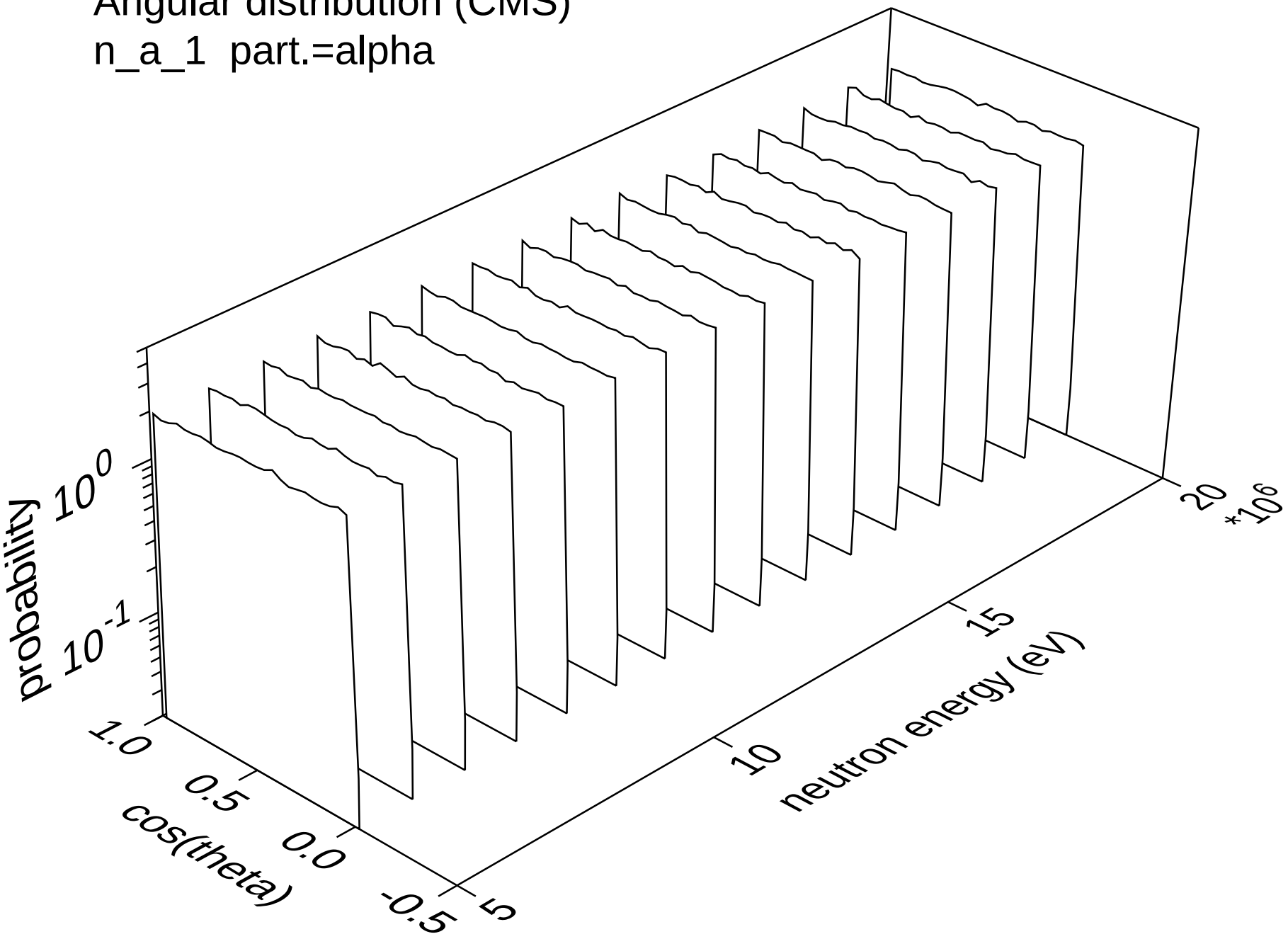

Angular distribution (CMS)
n_p_14 part.=proton
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

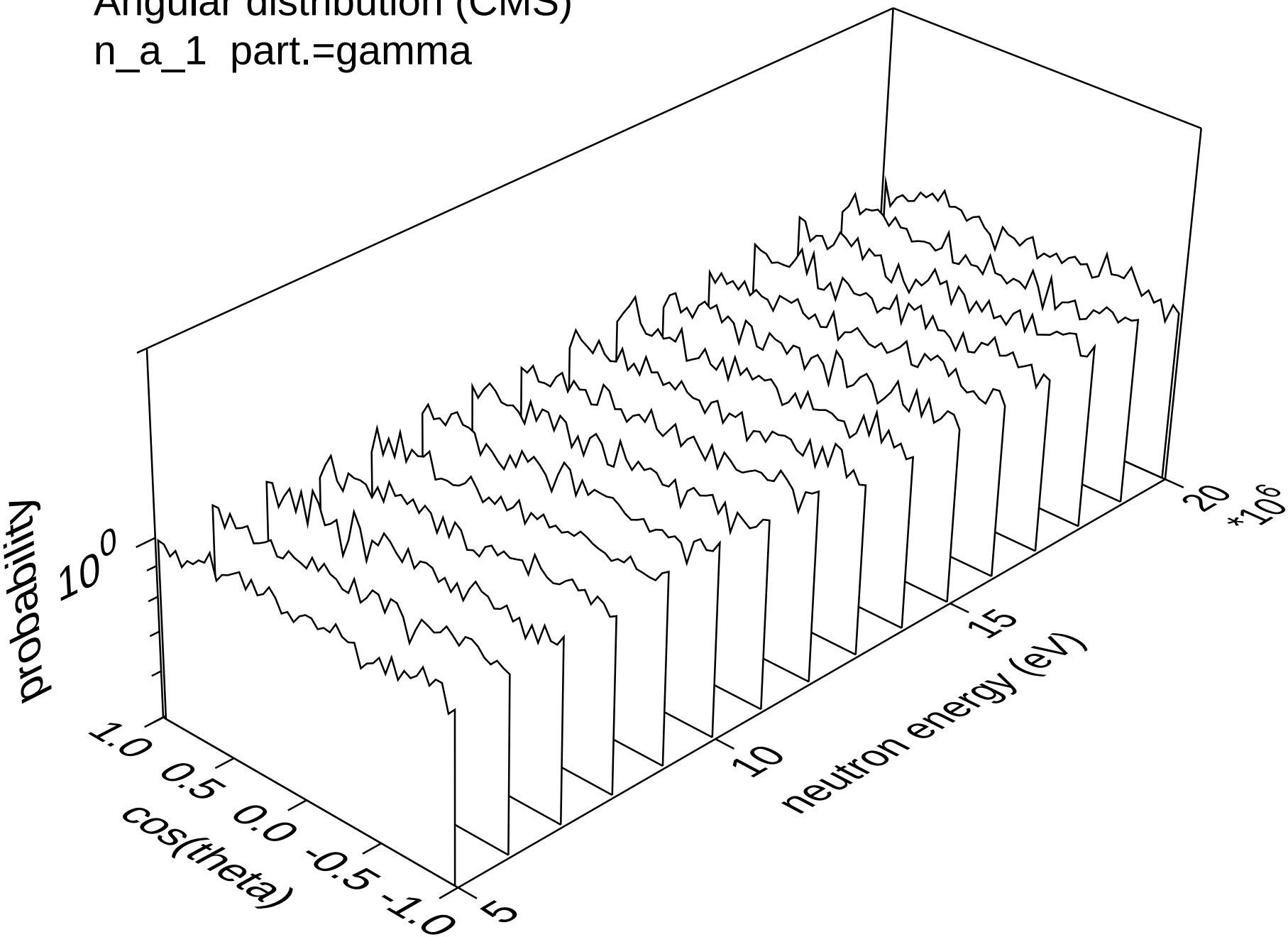

Angular distribution (CMS)
n_p_14 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

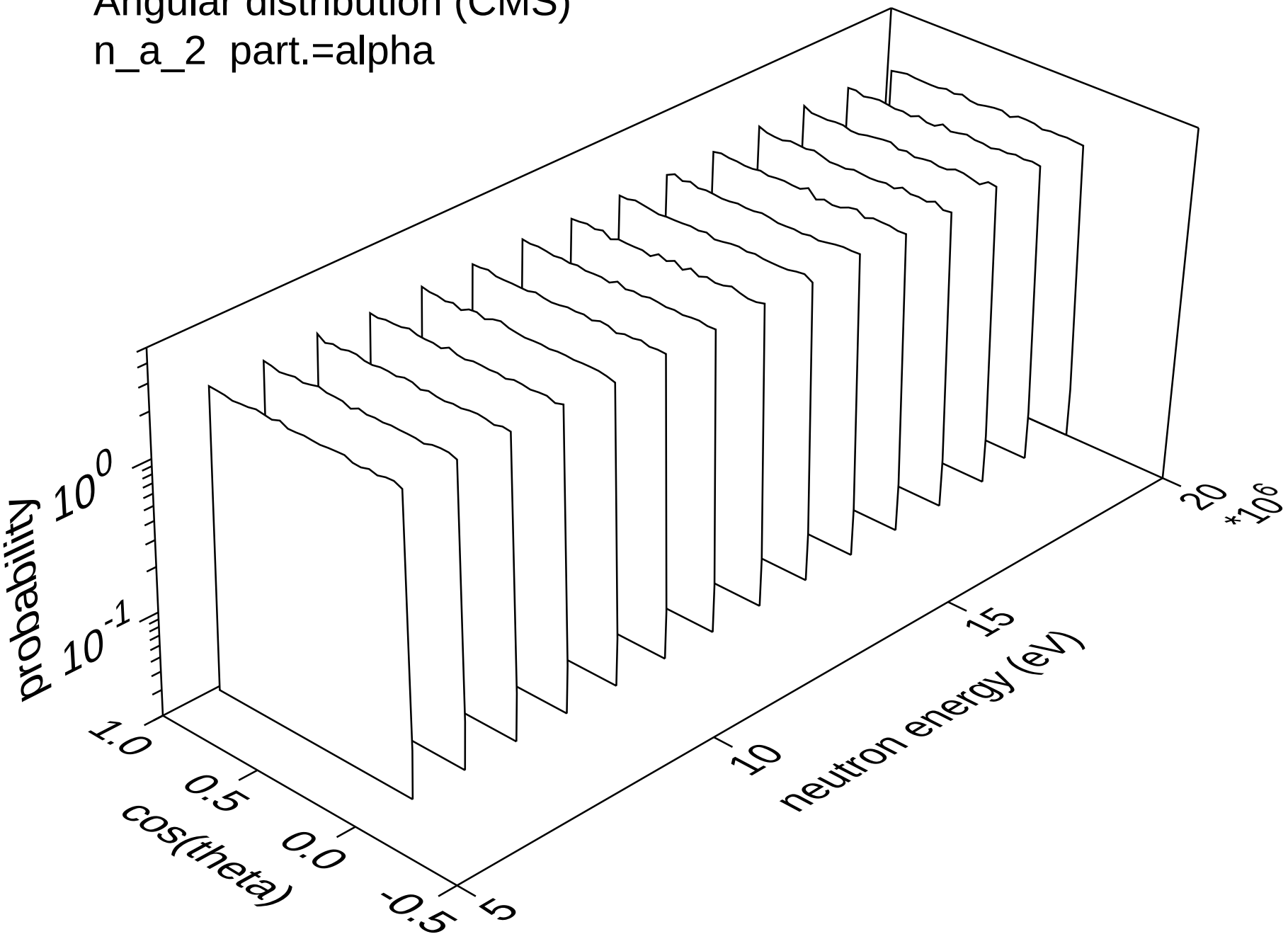

Angular distribution (CMS)
n_p_cont part.=proton
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

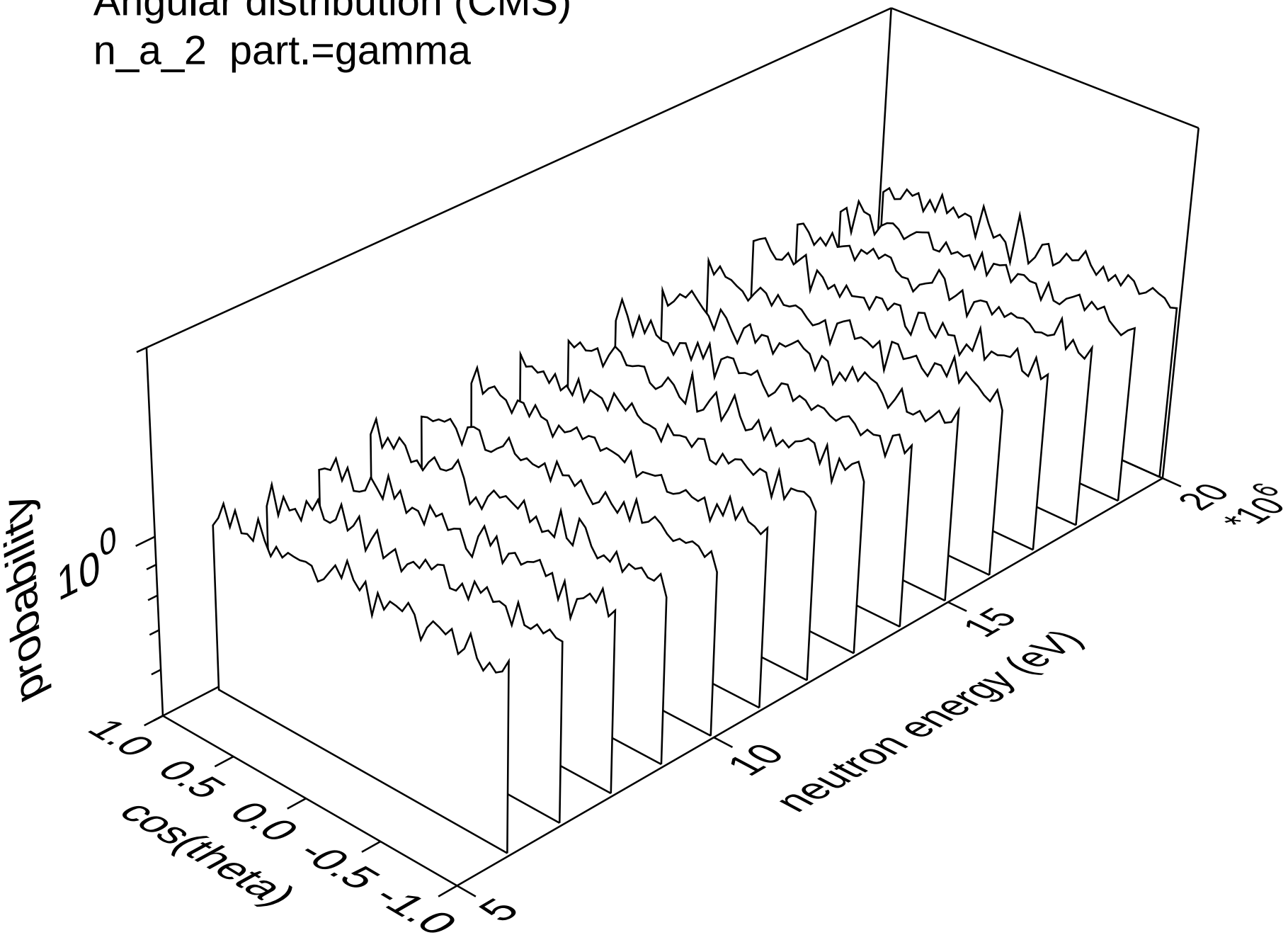

Angular distribution (CMS)
n_p_cont part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

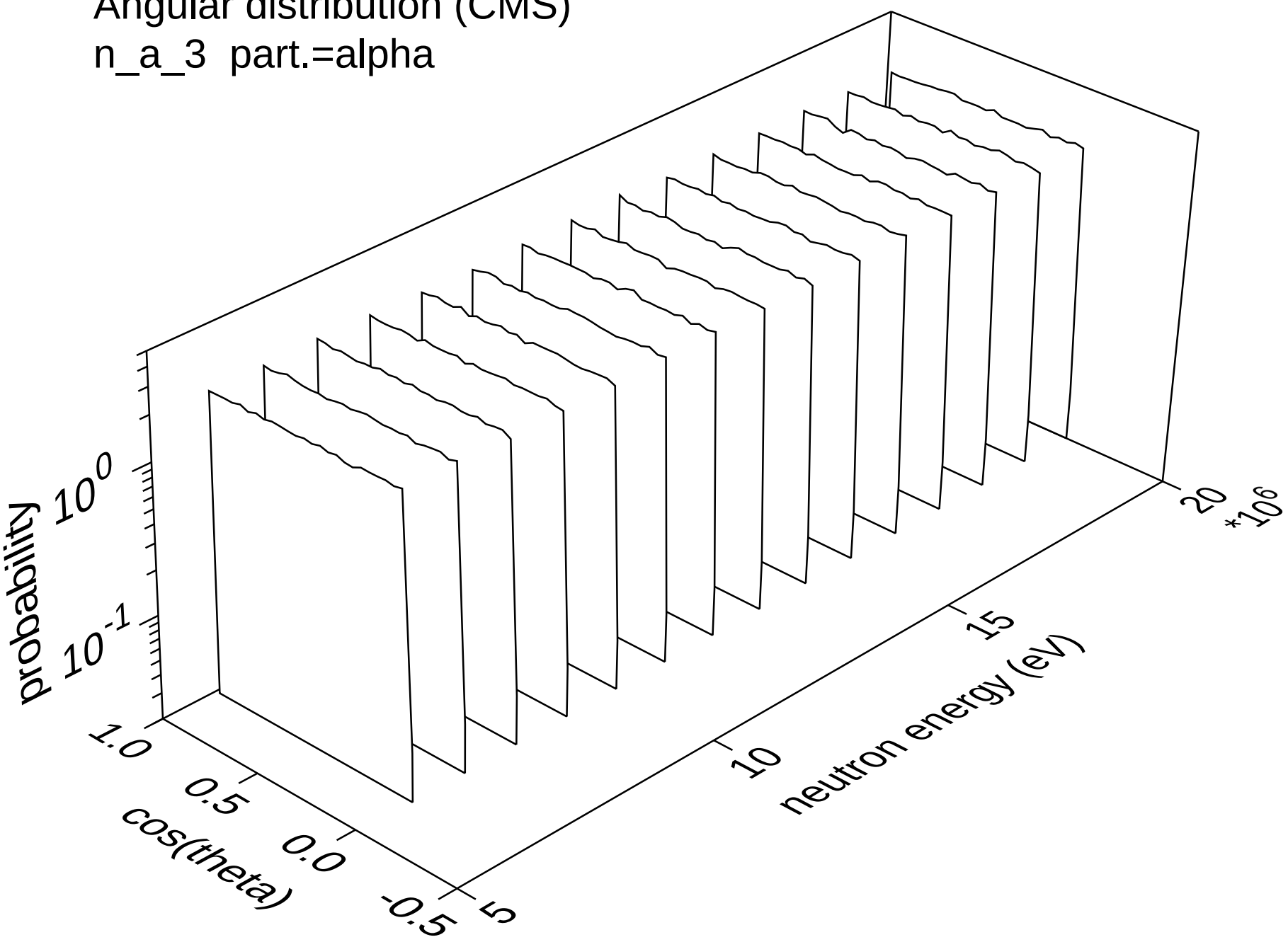

Angular distribution (CMS)
n_a_0
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

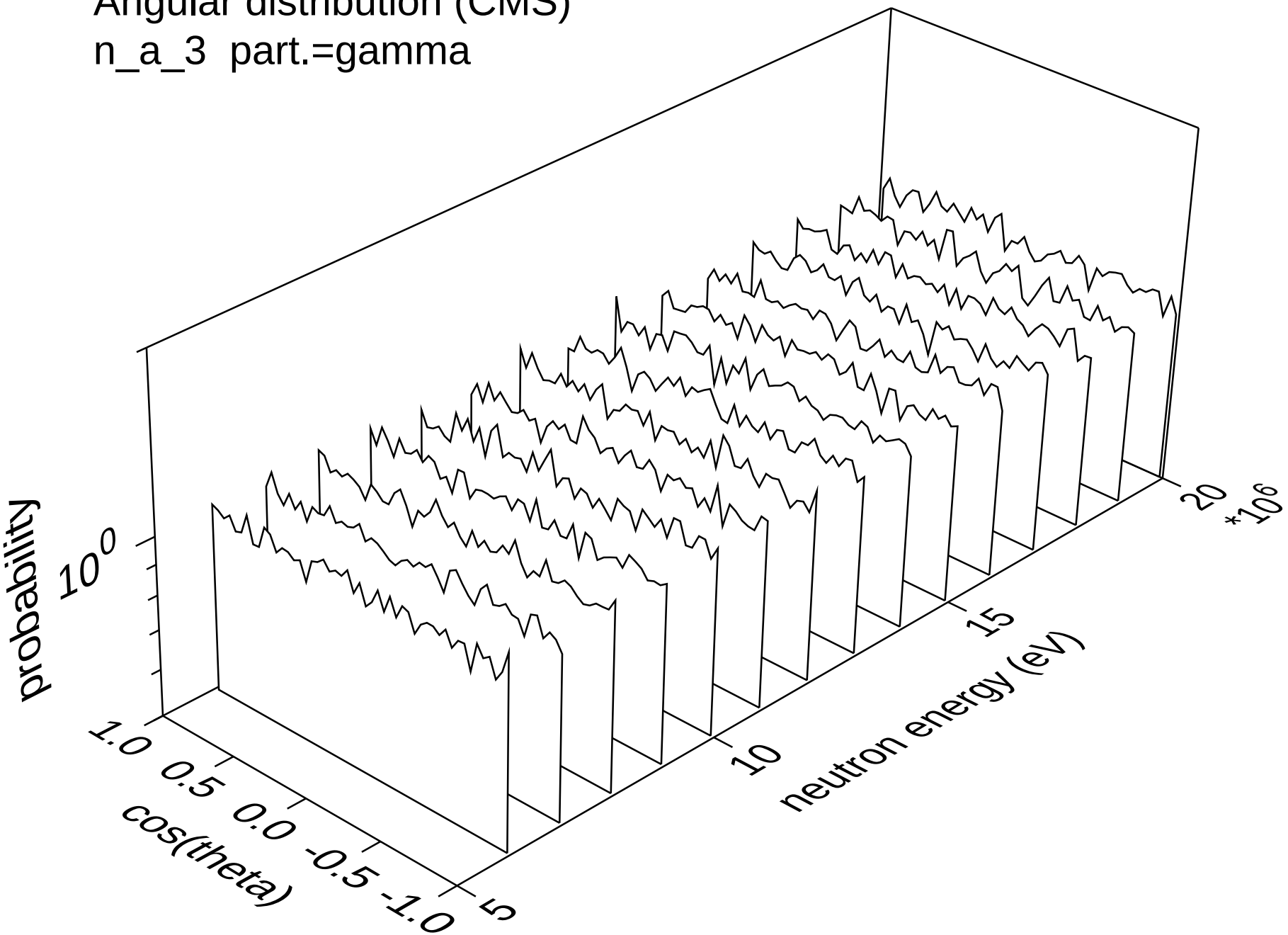

Angular distribution (CMS)
n_a_1 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

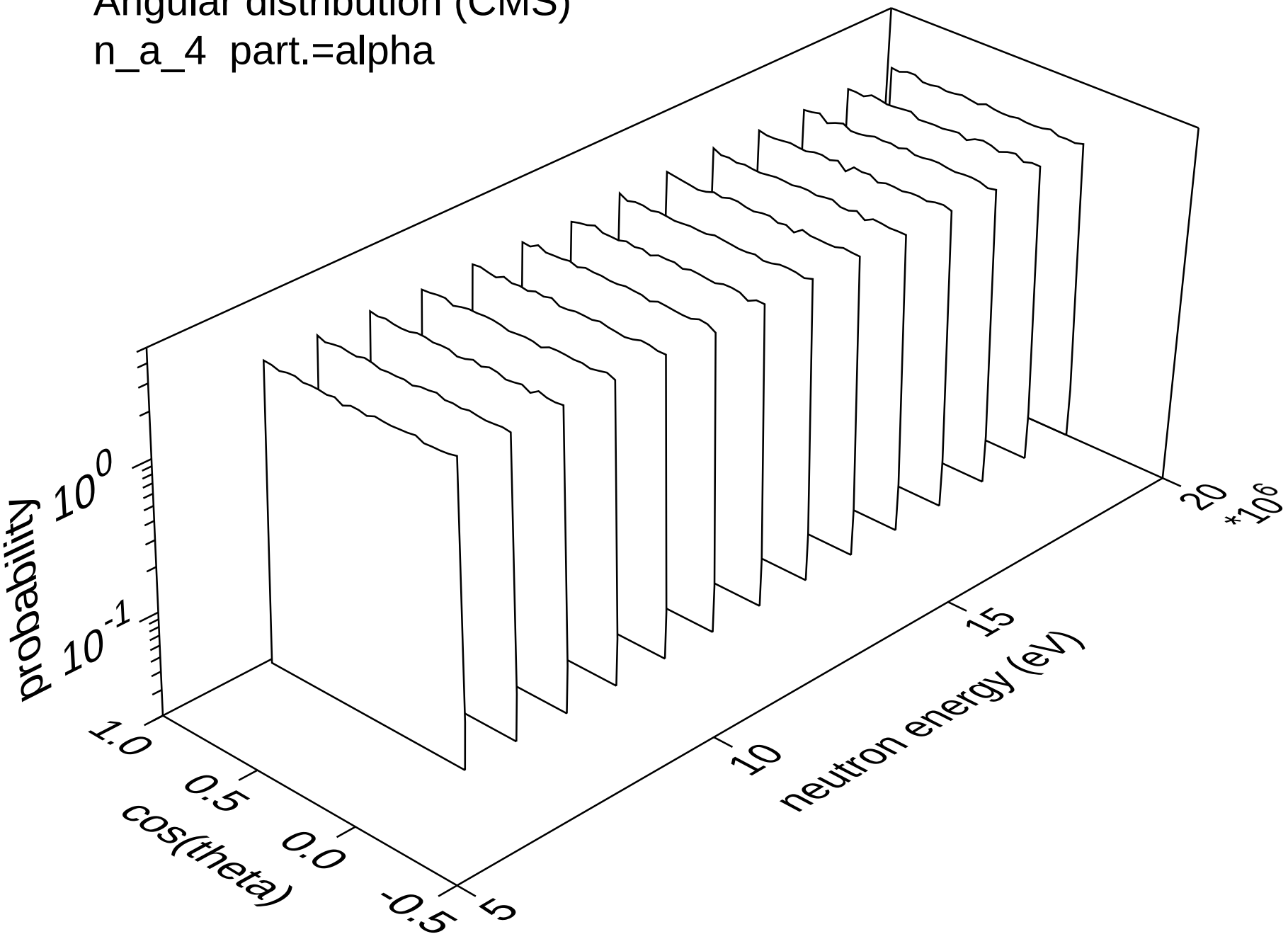

Angular distribution (CMS)
n_a_1 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

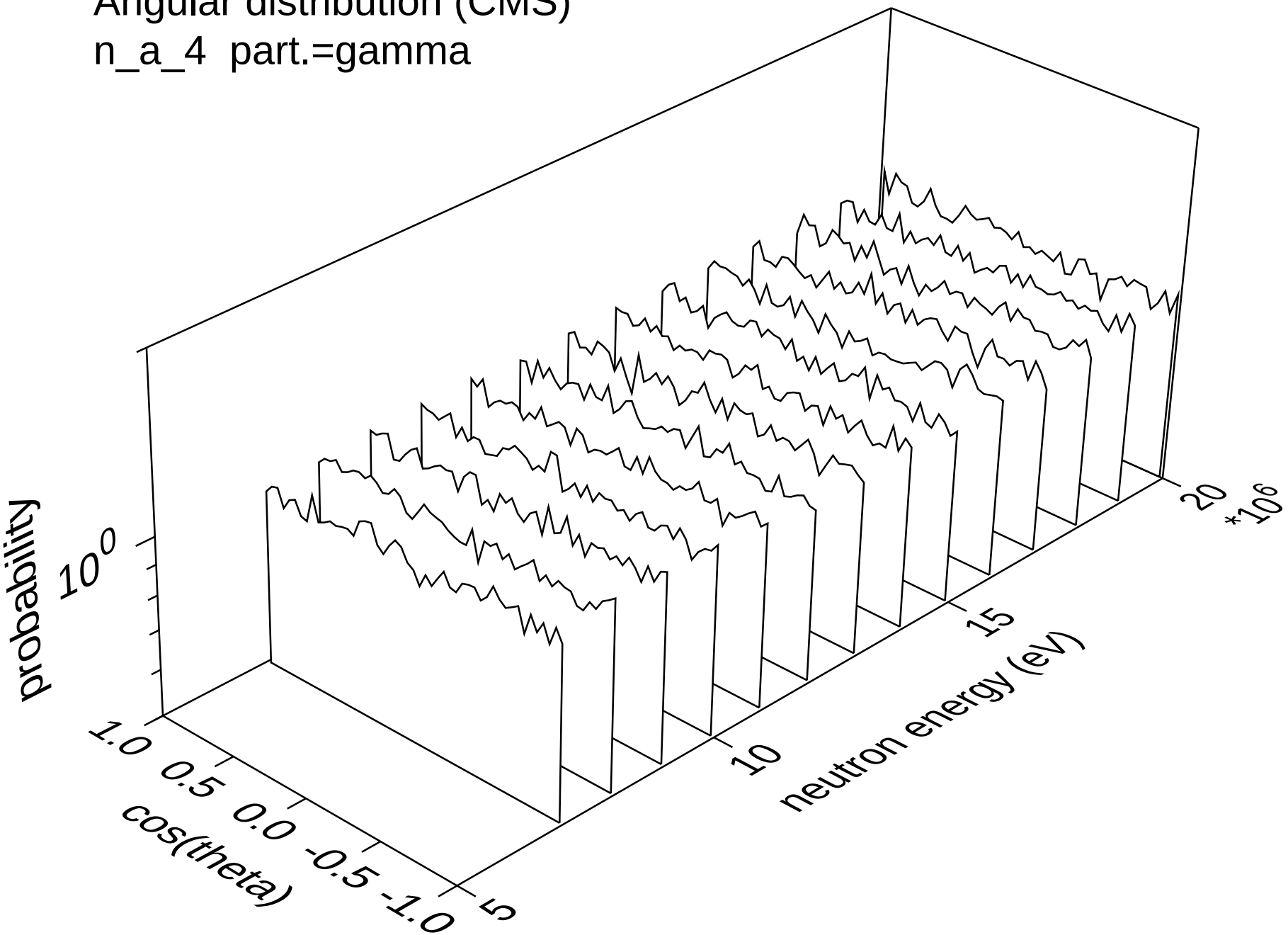

Angular distribution (CMS)
n_a_2 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

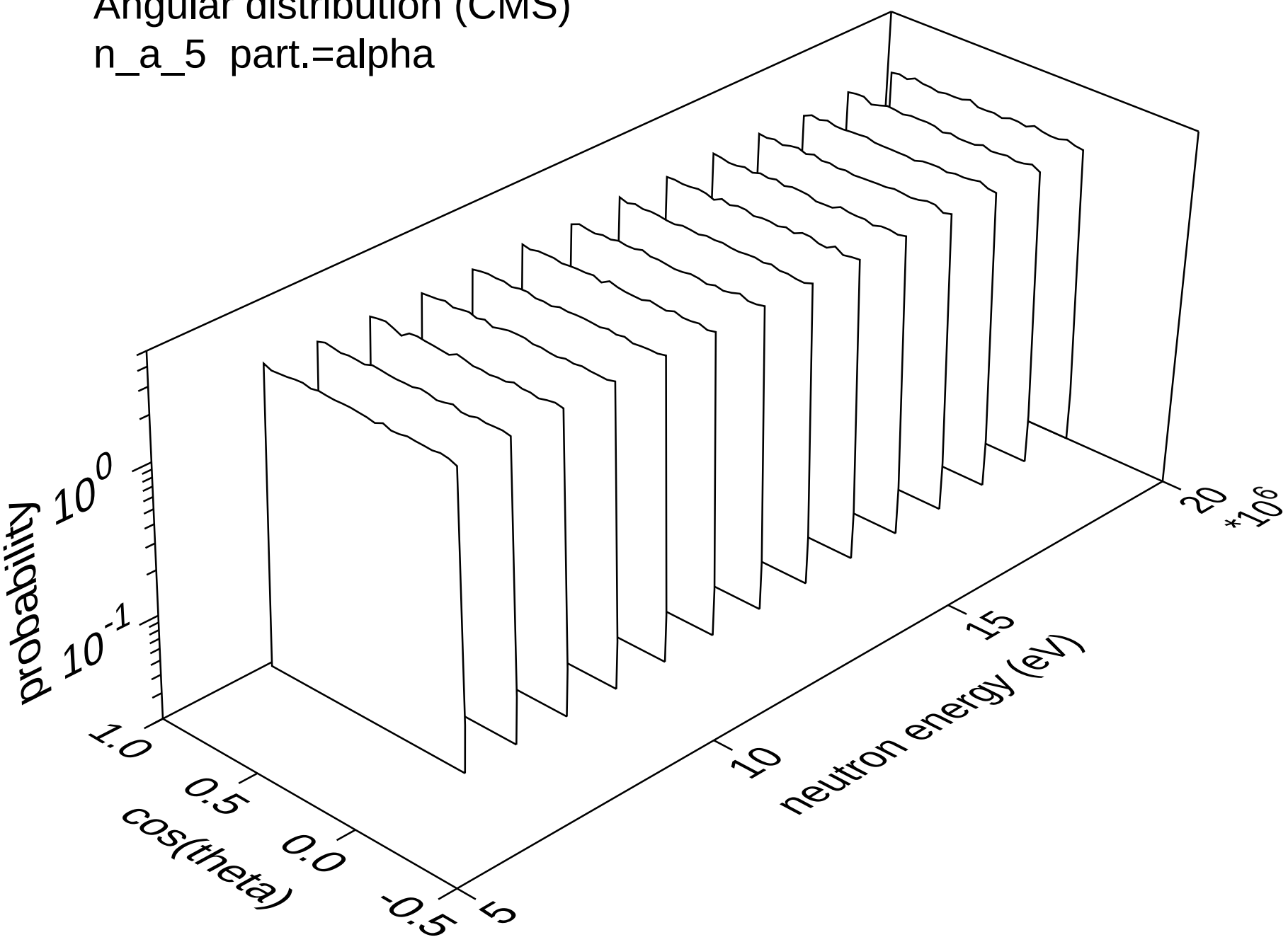

Angular distribution (CMS)
n_a_2 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

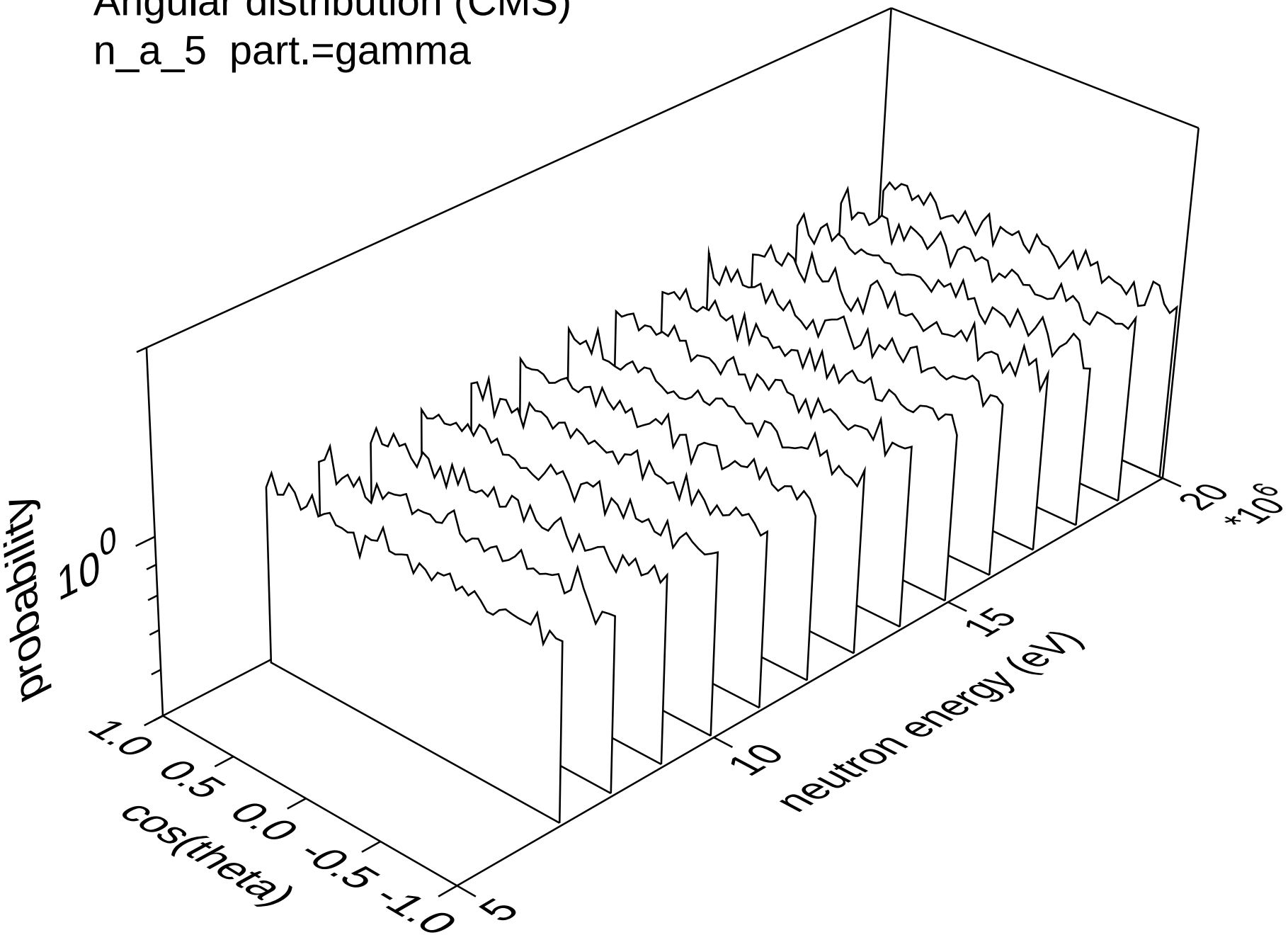

Angular distribution (CMS)
n_a_3 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

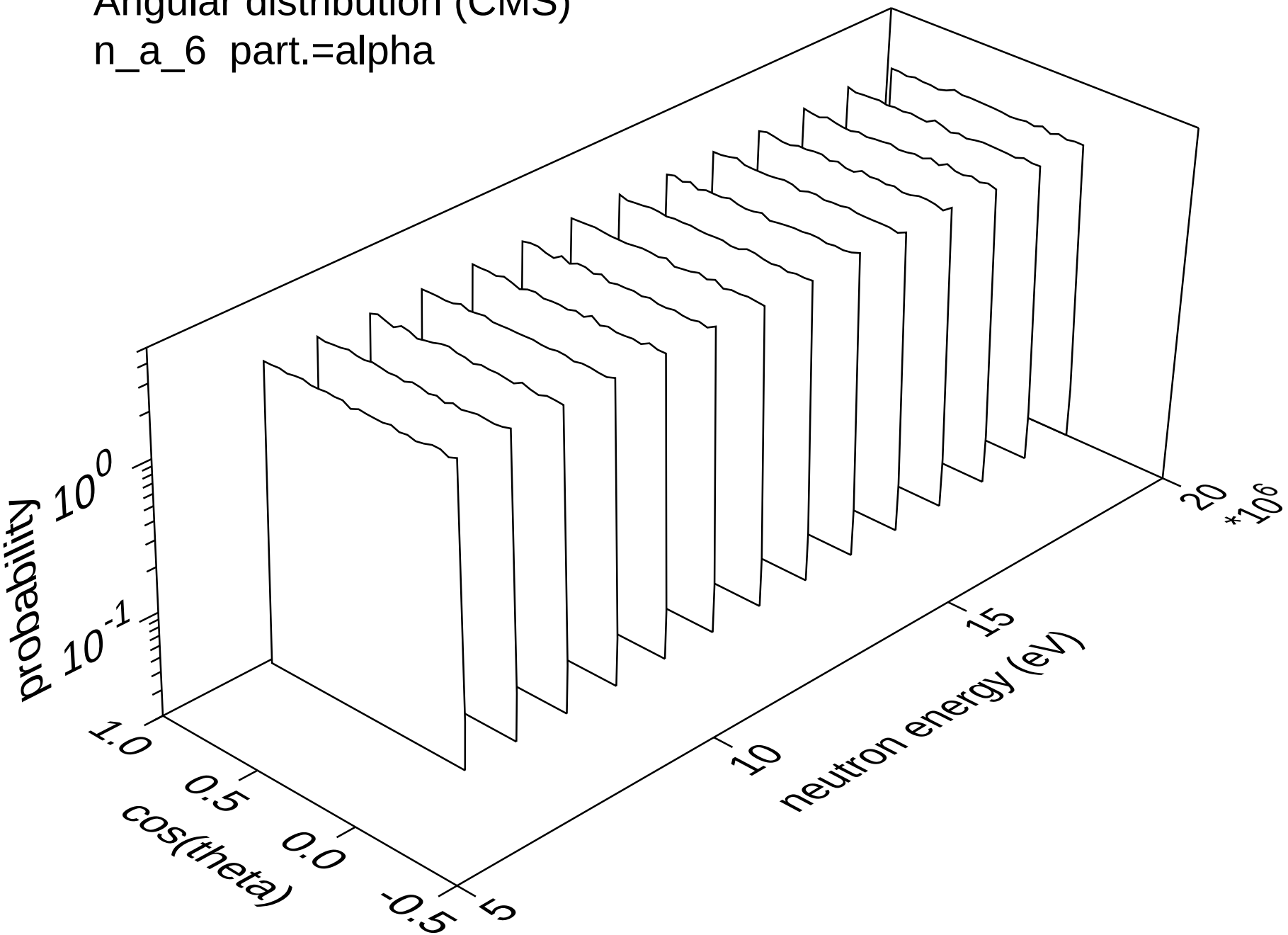

Angular distribution (CMS)
n_a_3 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

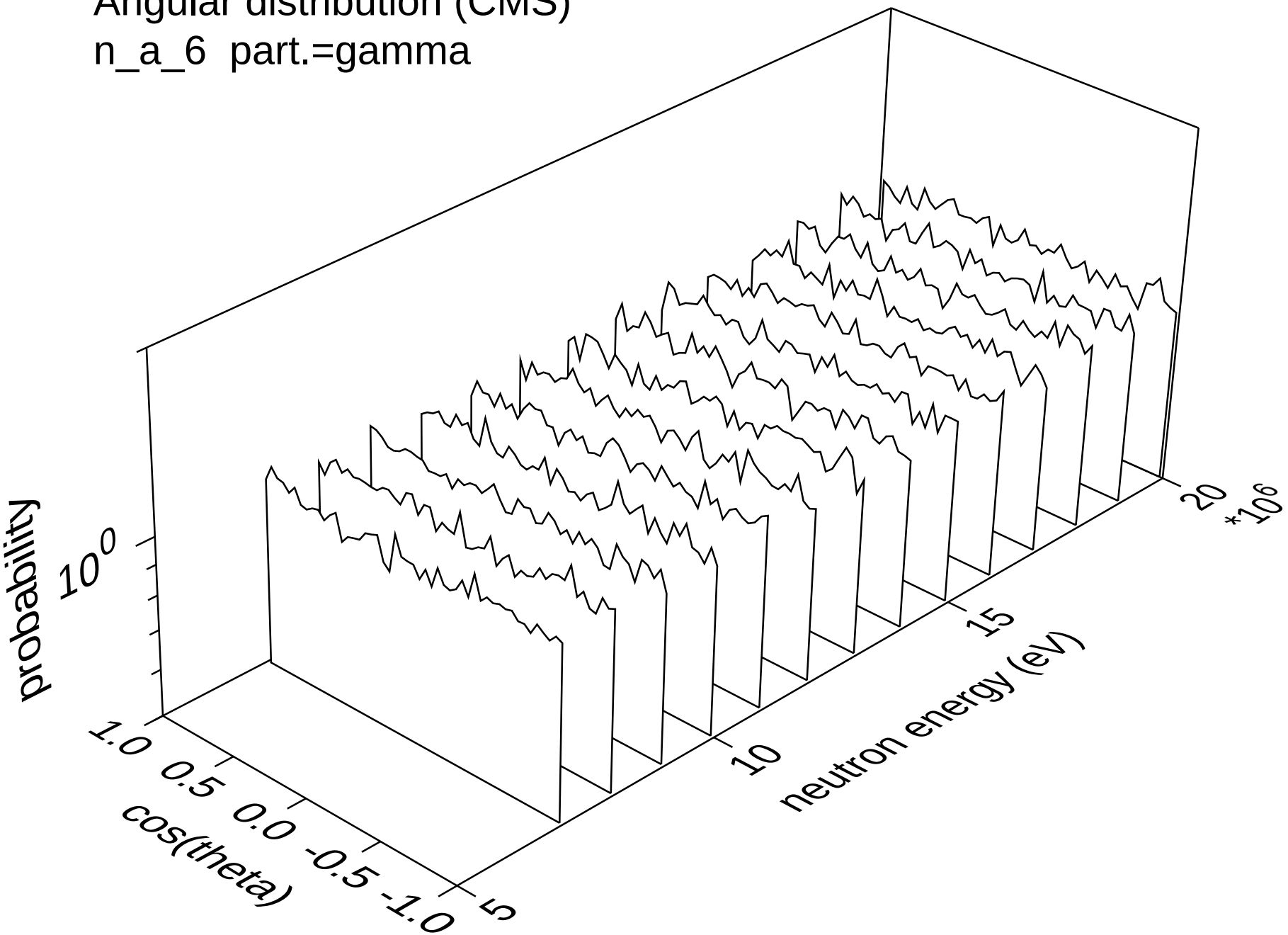

Angular distribution (CMS)
n_a_4 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

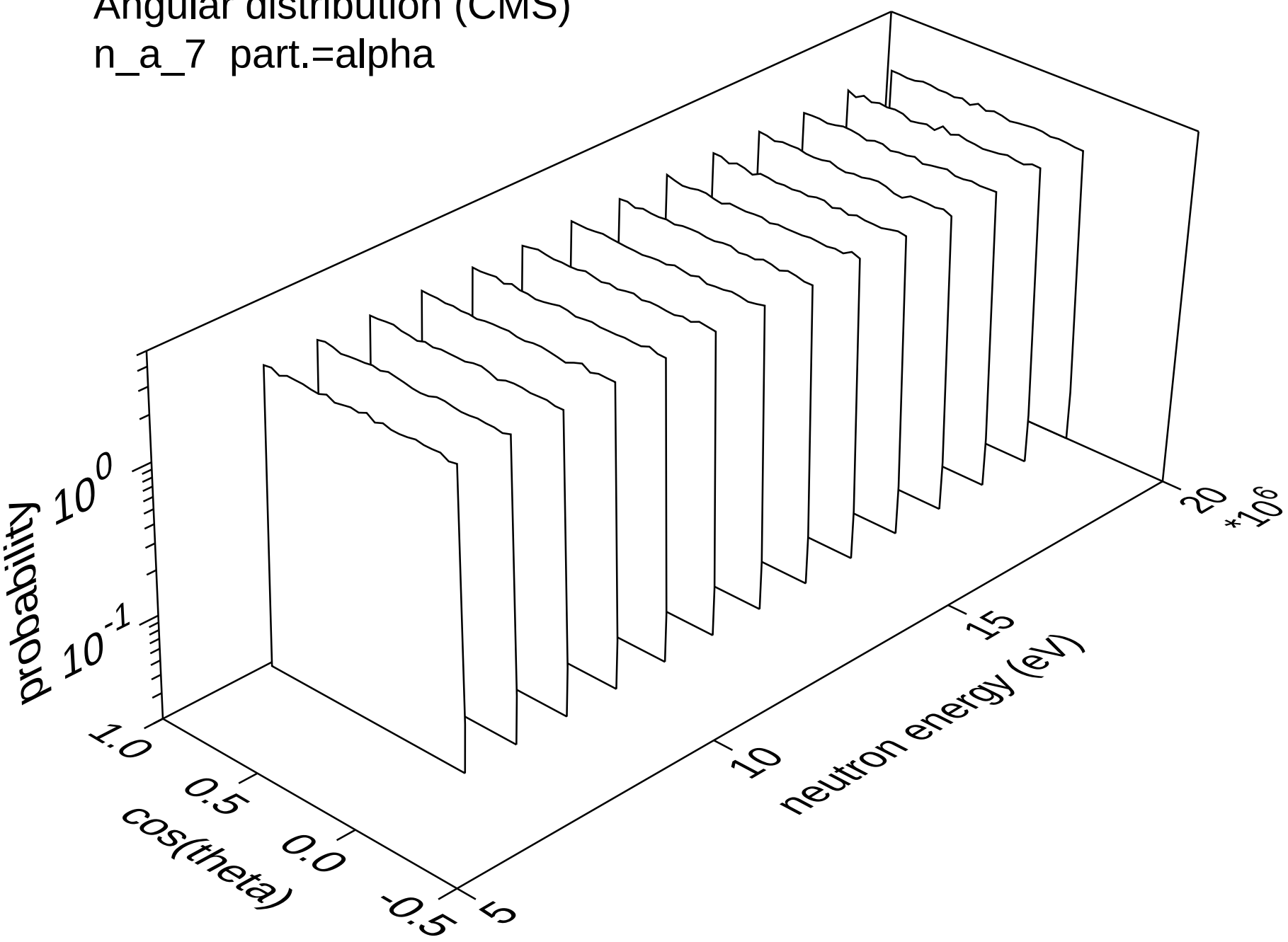

Angular distribution (CMS)
n_a_4 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

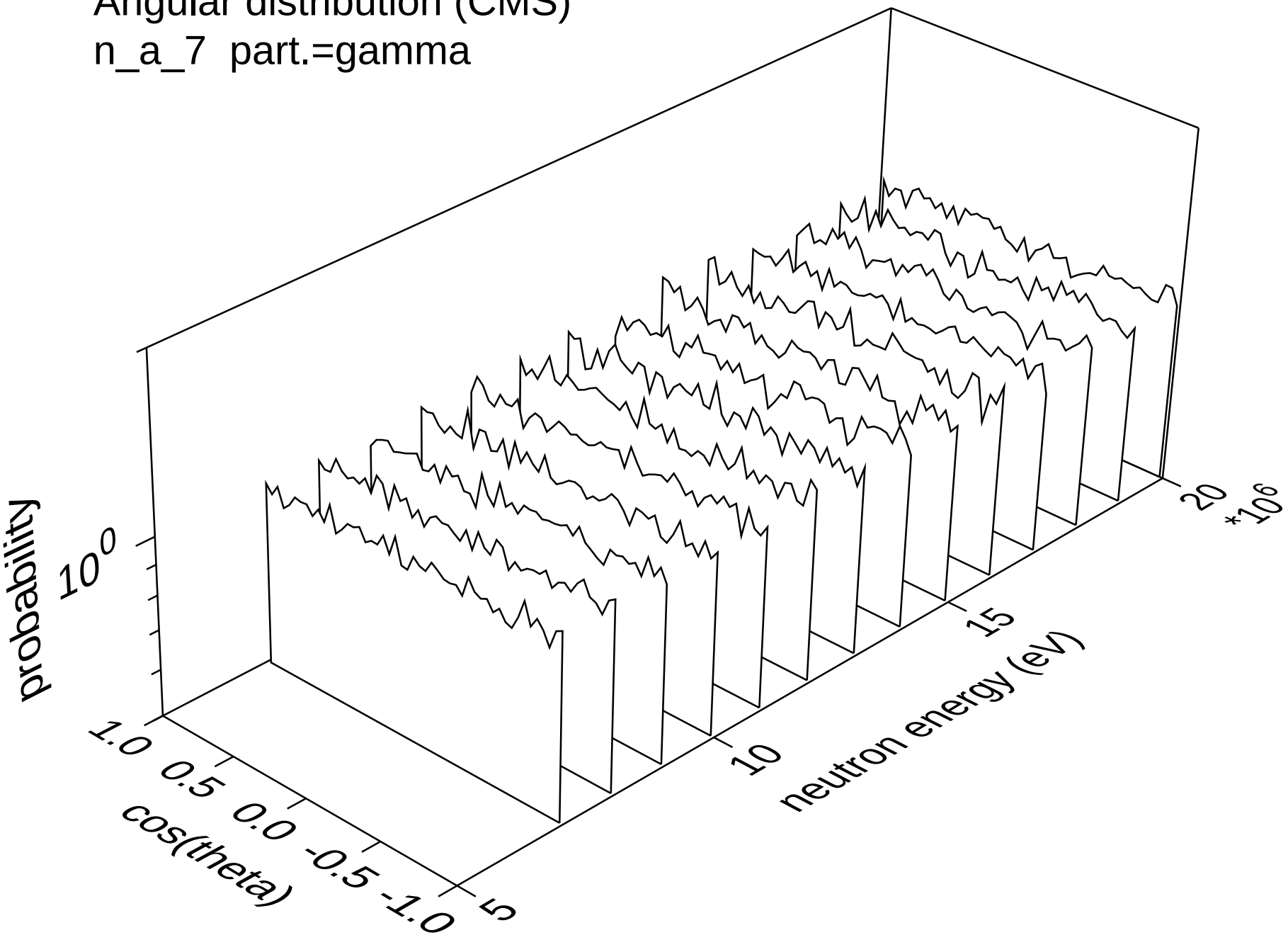

Angular distribution (CMS)
n_a_5 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

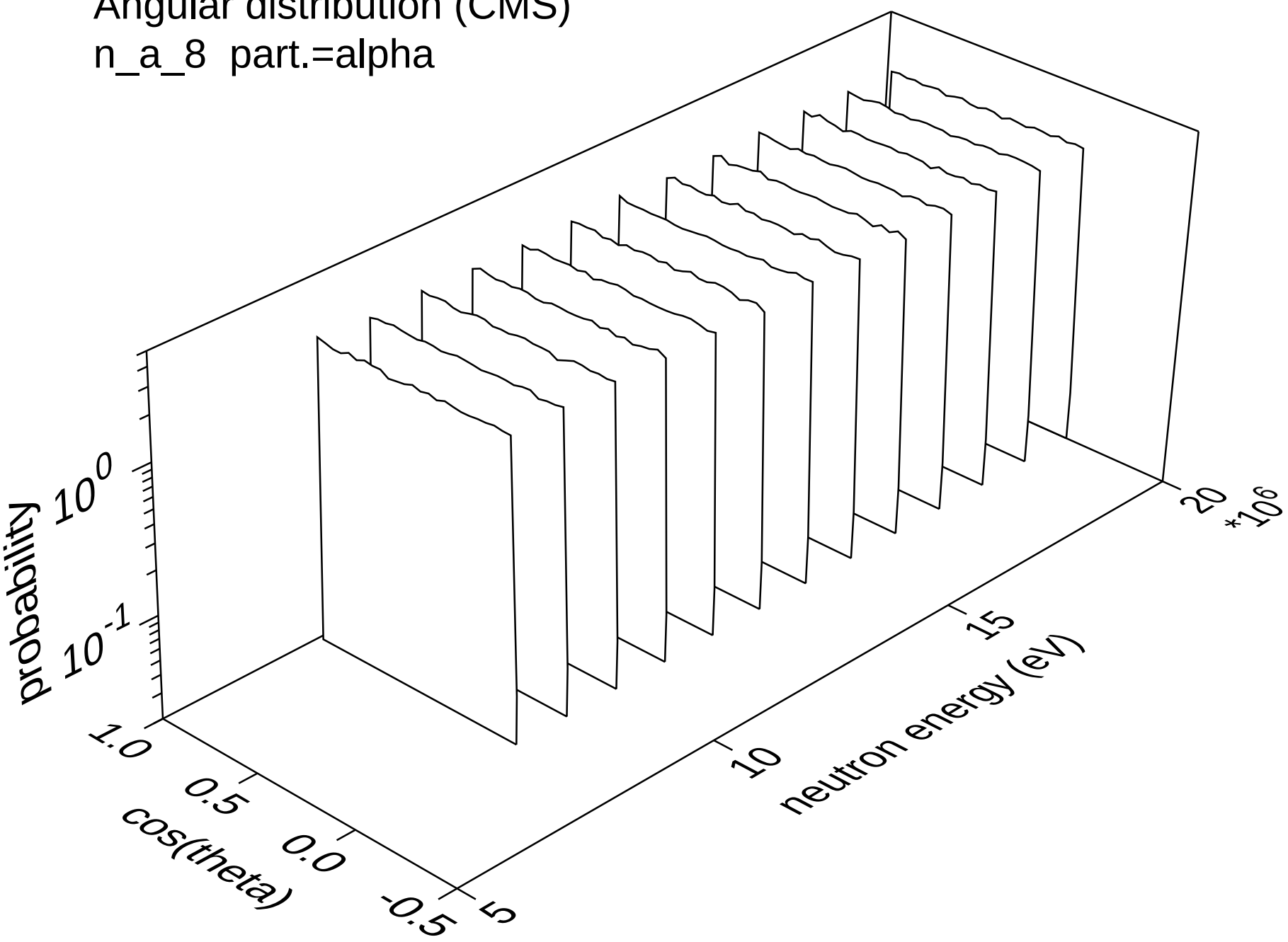

Angular distribution (CMS)
n_a_5 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

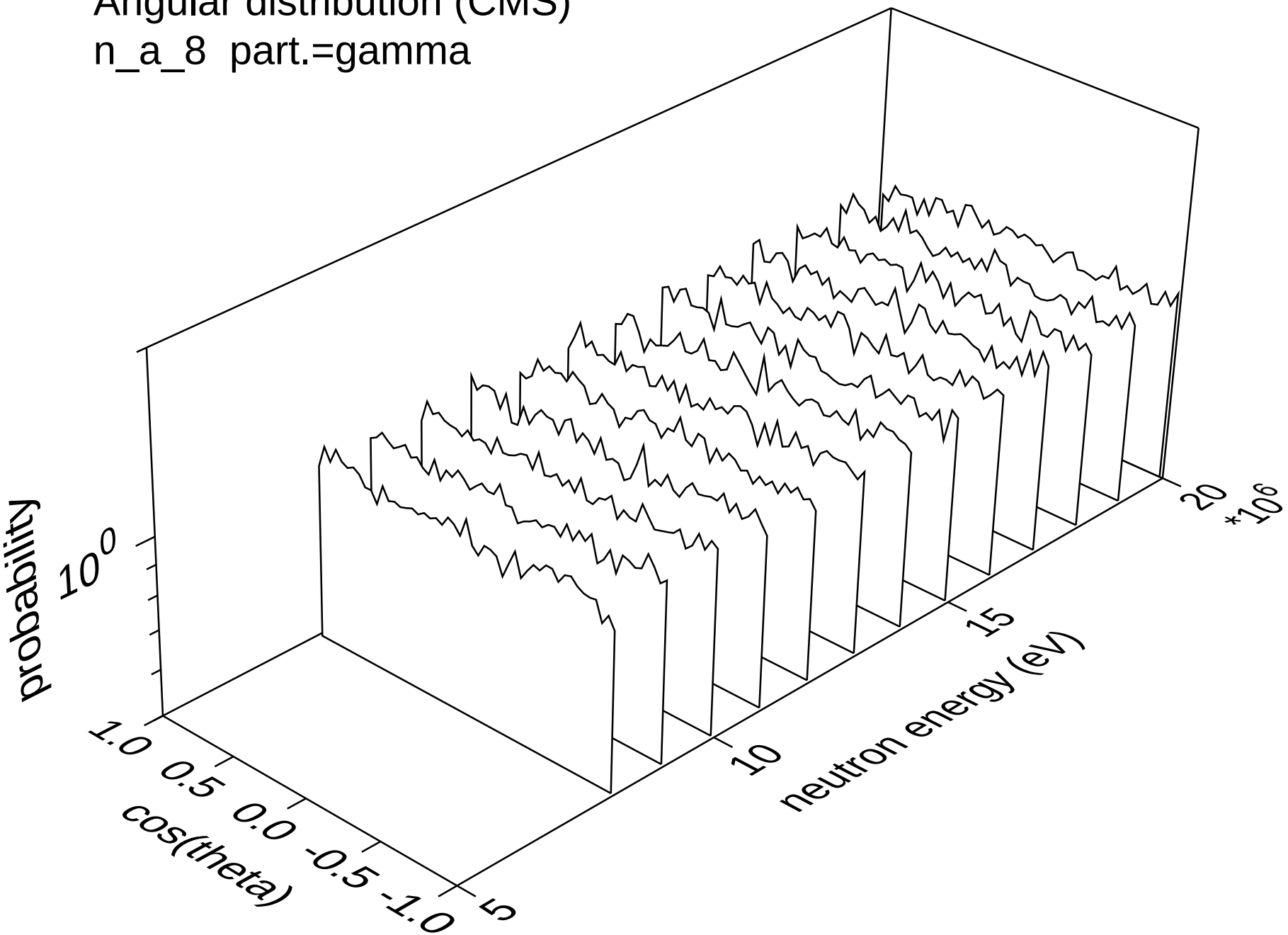

Angular distribution (CMS)
n_a_6 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

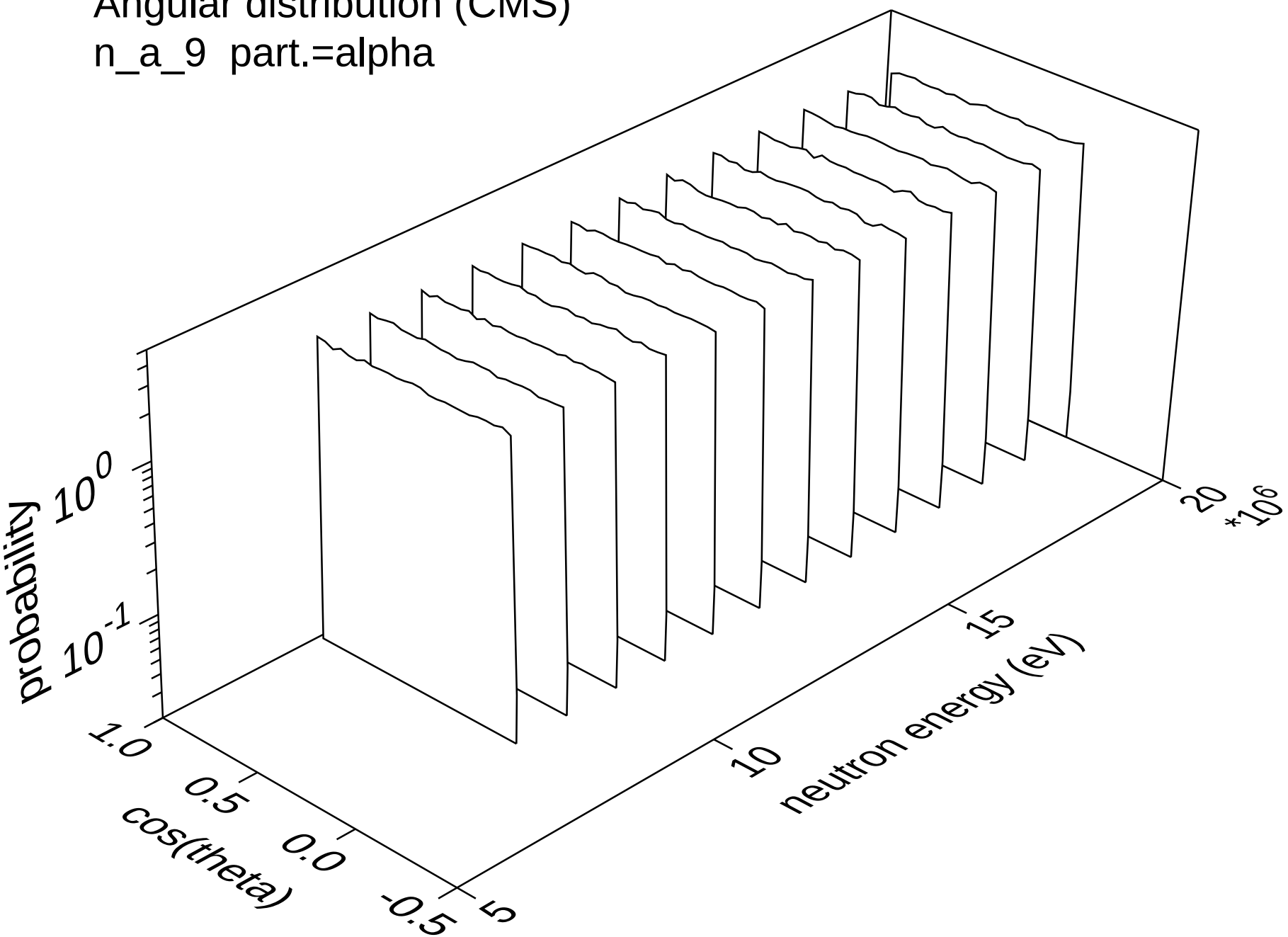

Angular distribution (CMS)
n_a_6 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

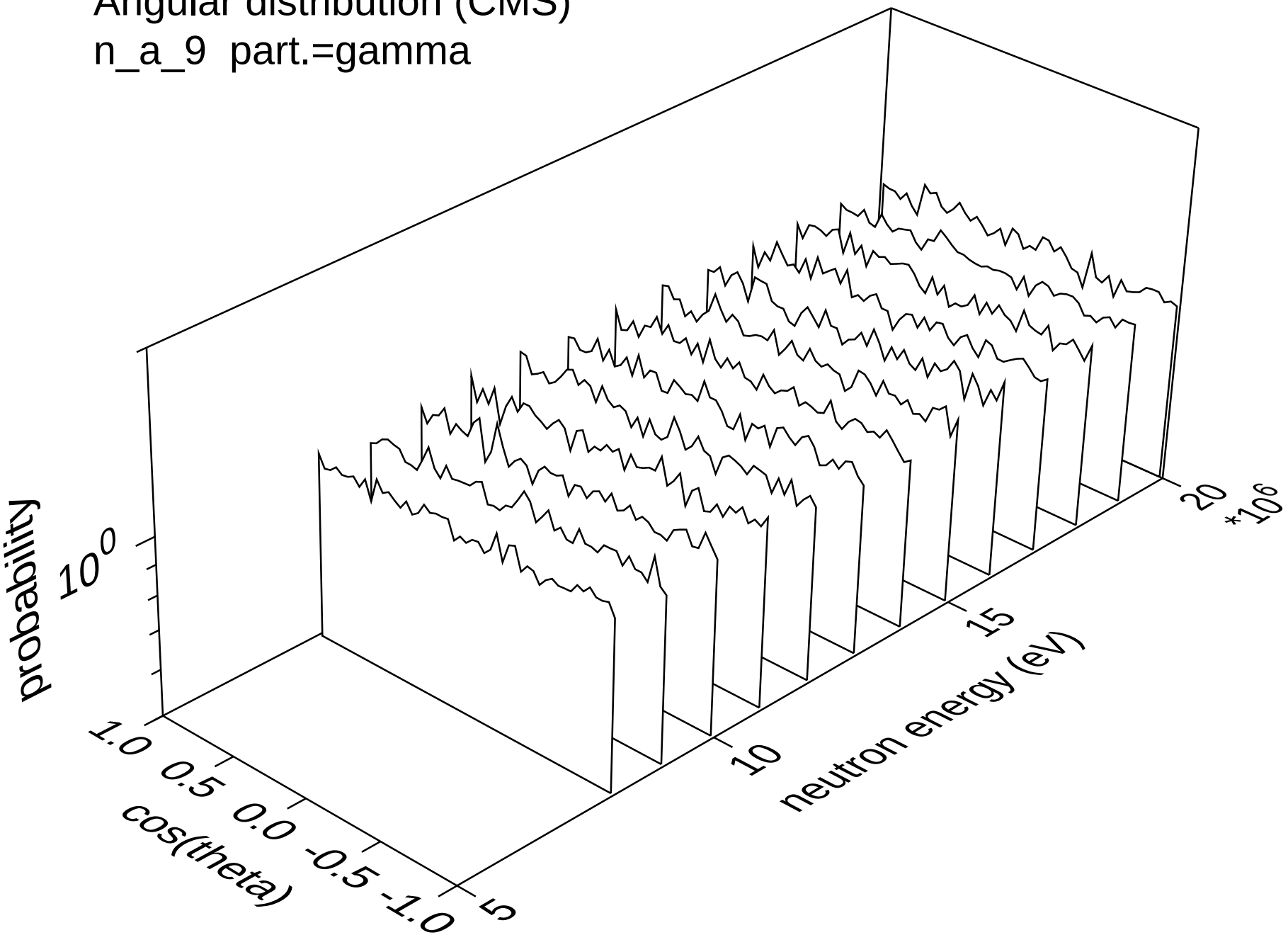

Angular distribution (CMS)
n_a_7 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

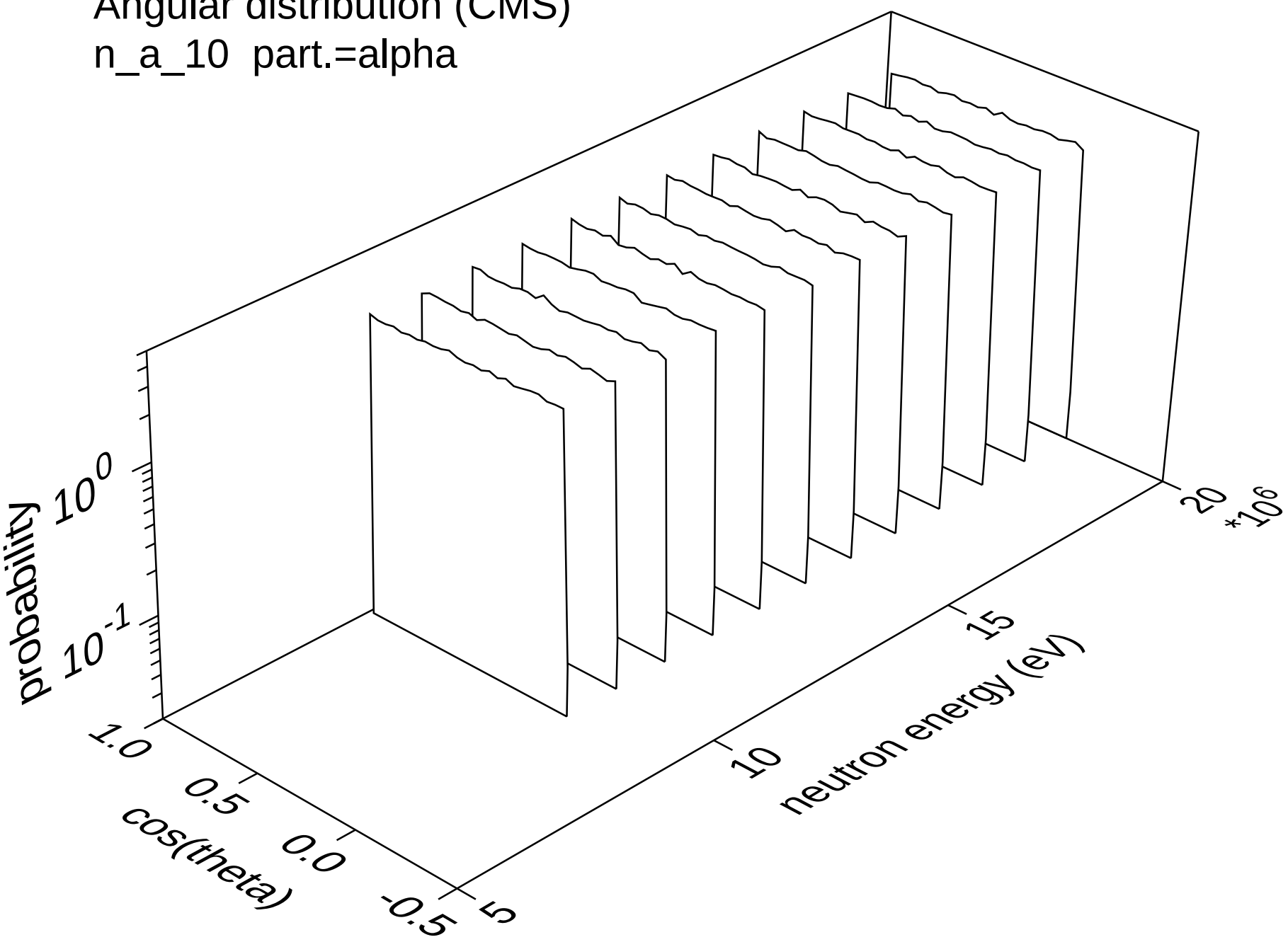

Angular distribution (CMS)
n_a_7 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

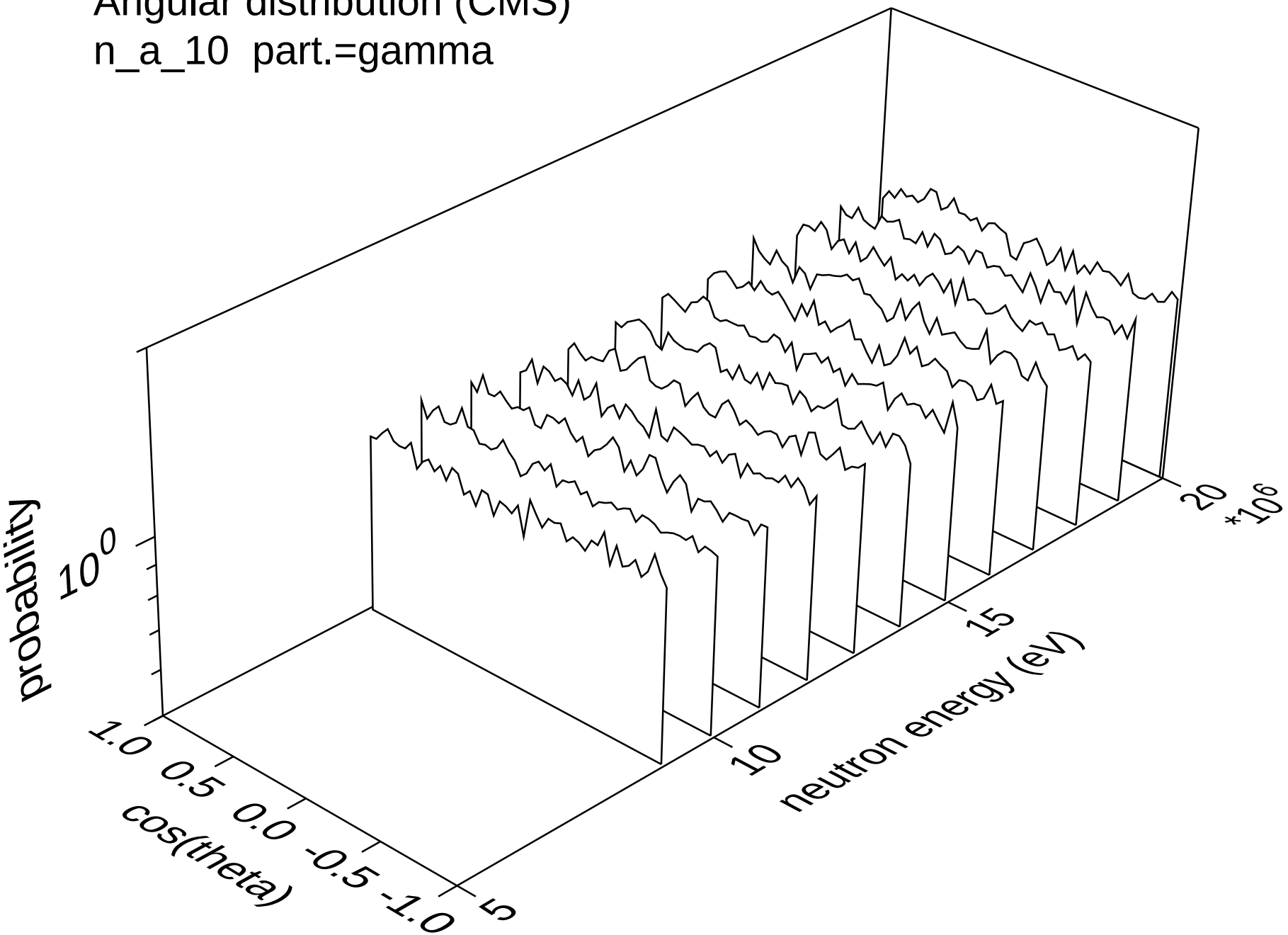

Angular distribution (CMS)
n_a_8 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

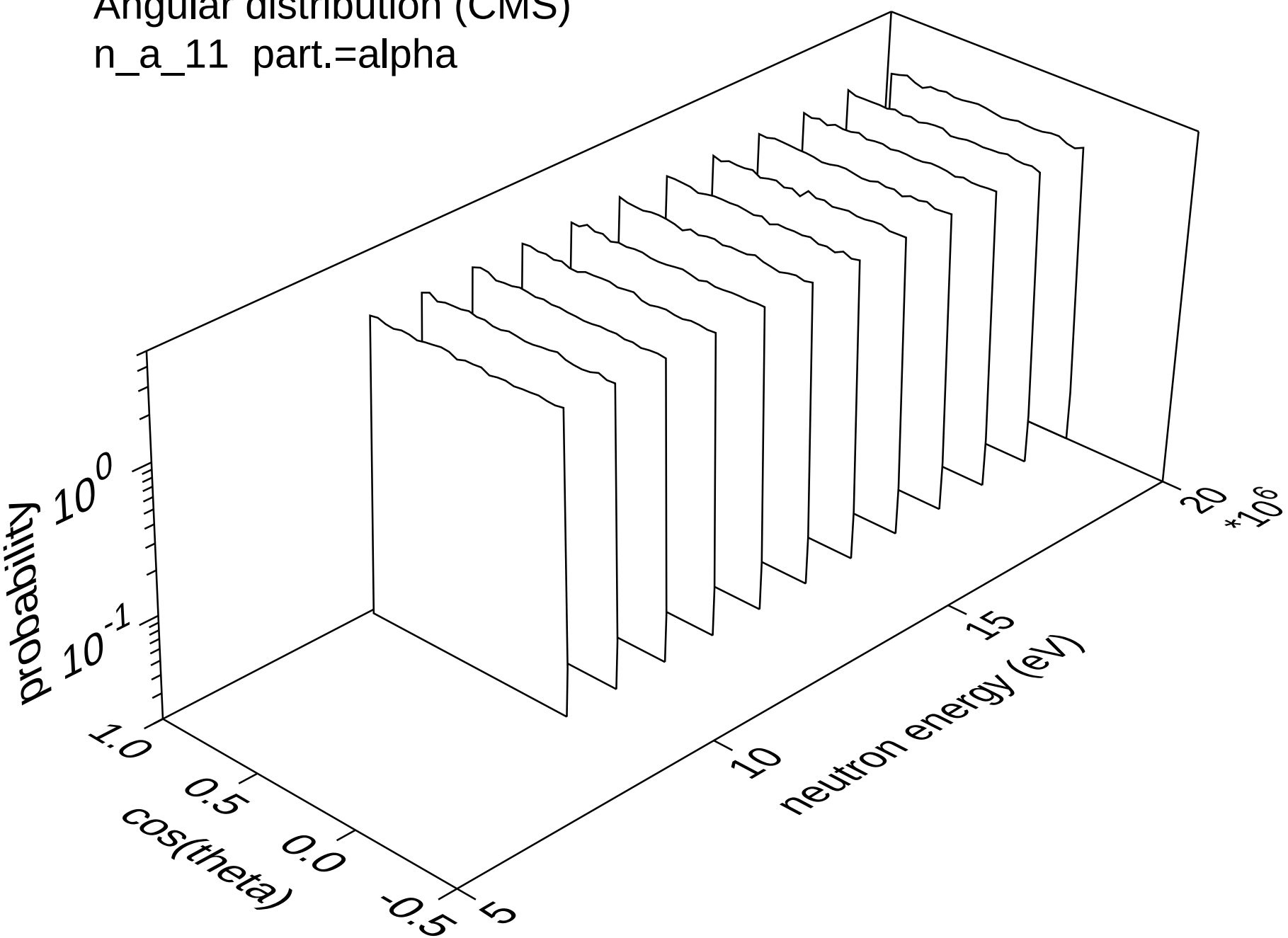

Angular distribution (CMS)
n_a_8 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

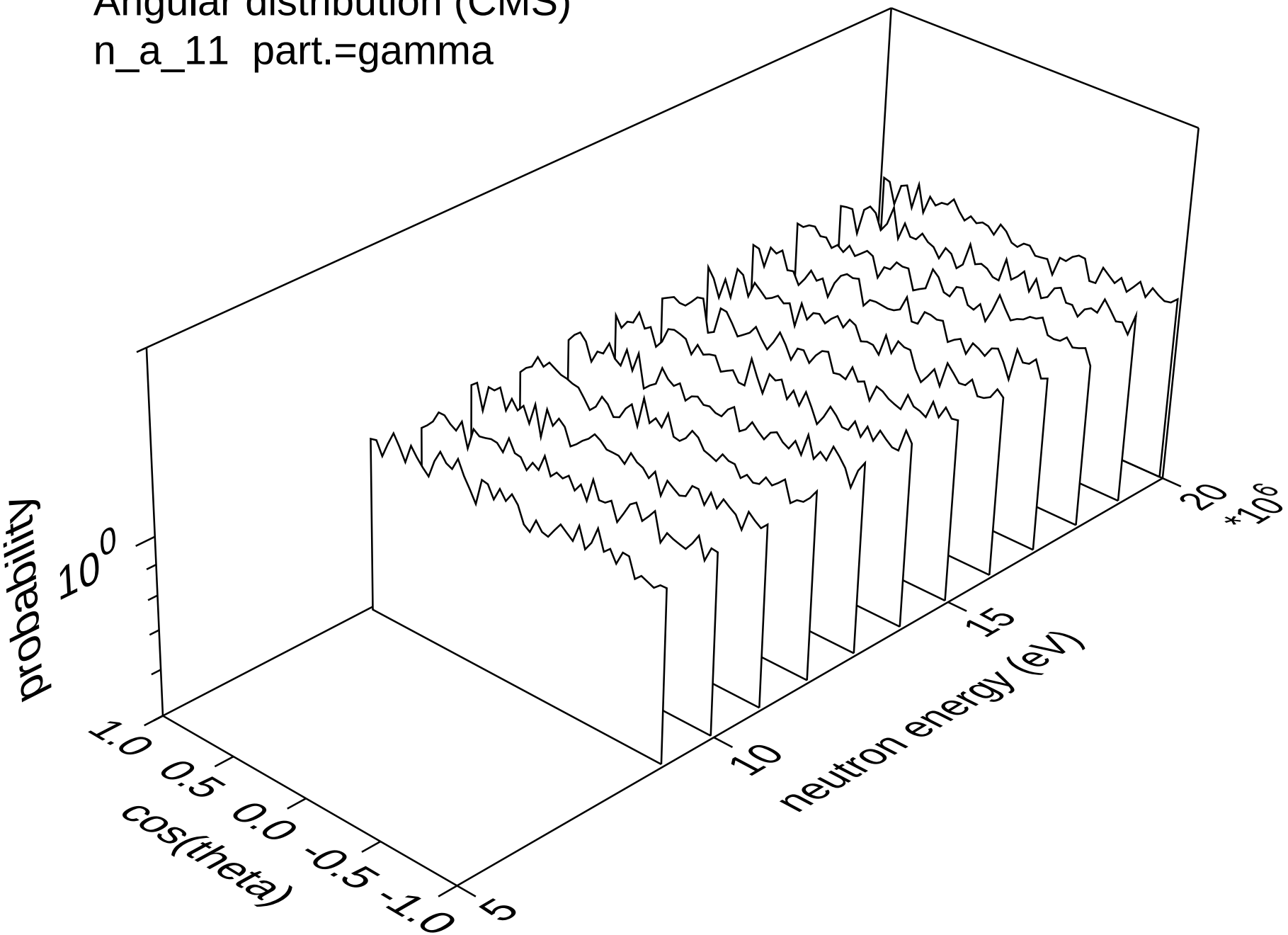

Angular distribution (CMS)
n_a_9 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

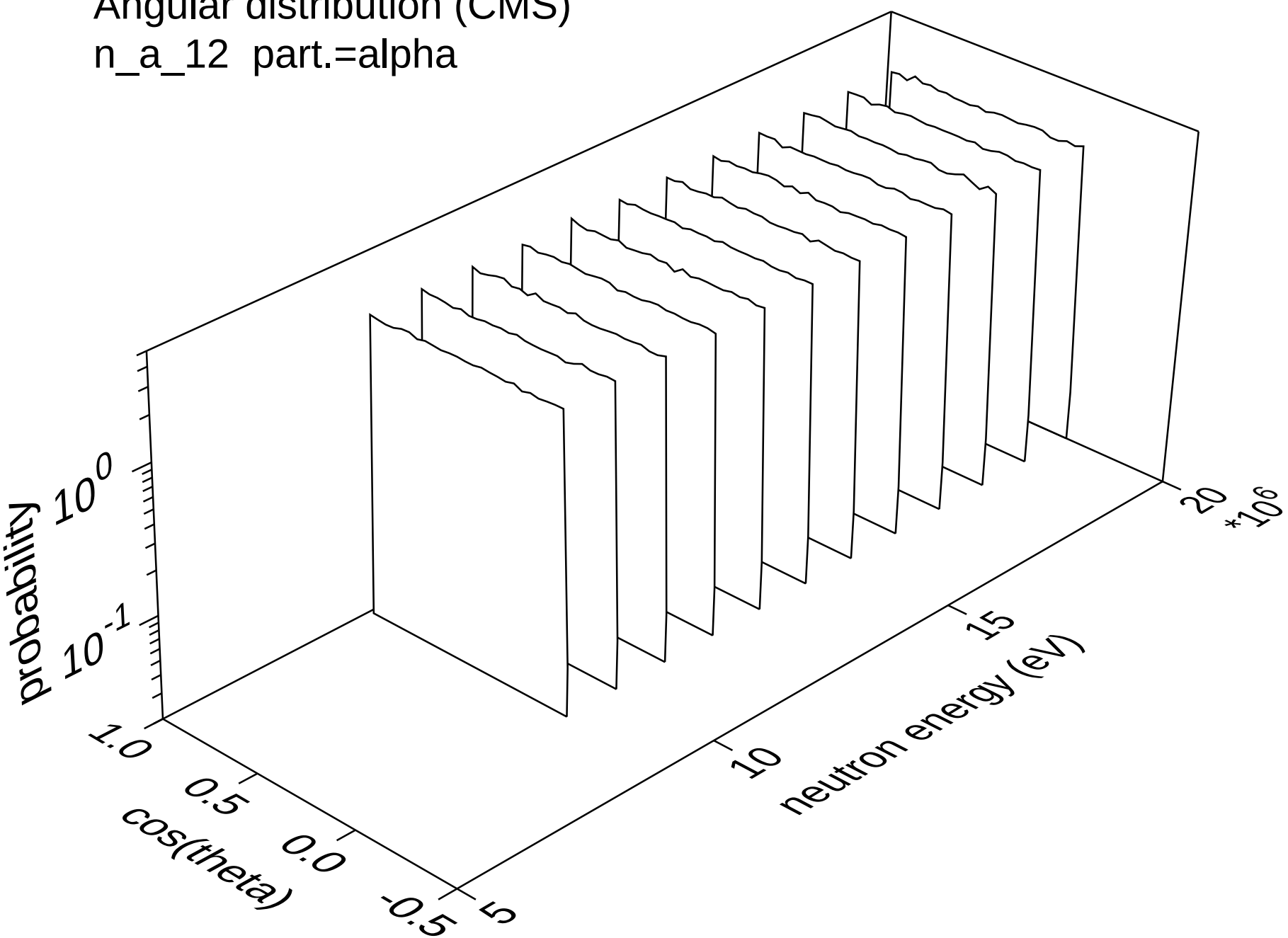

Angular distribution (CMS)
n_a_9 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

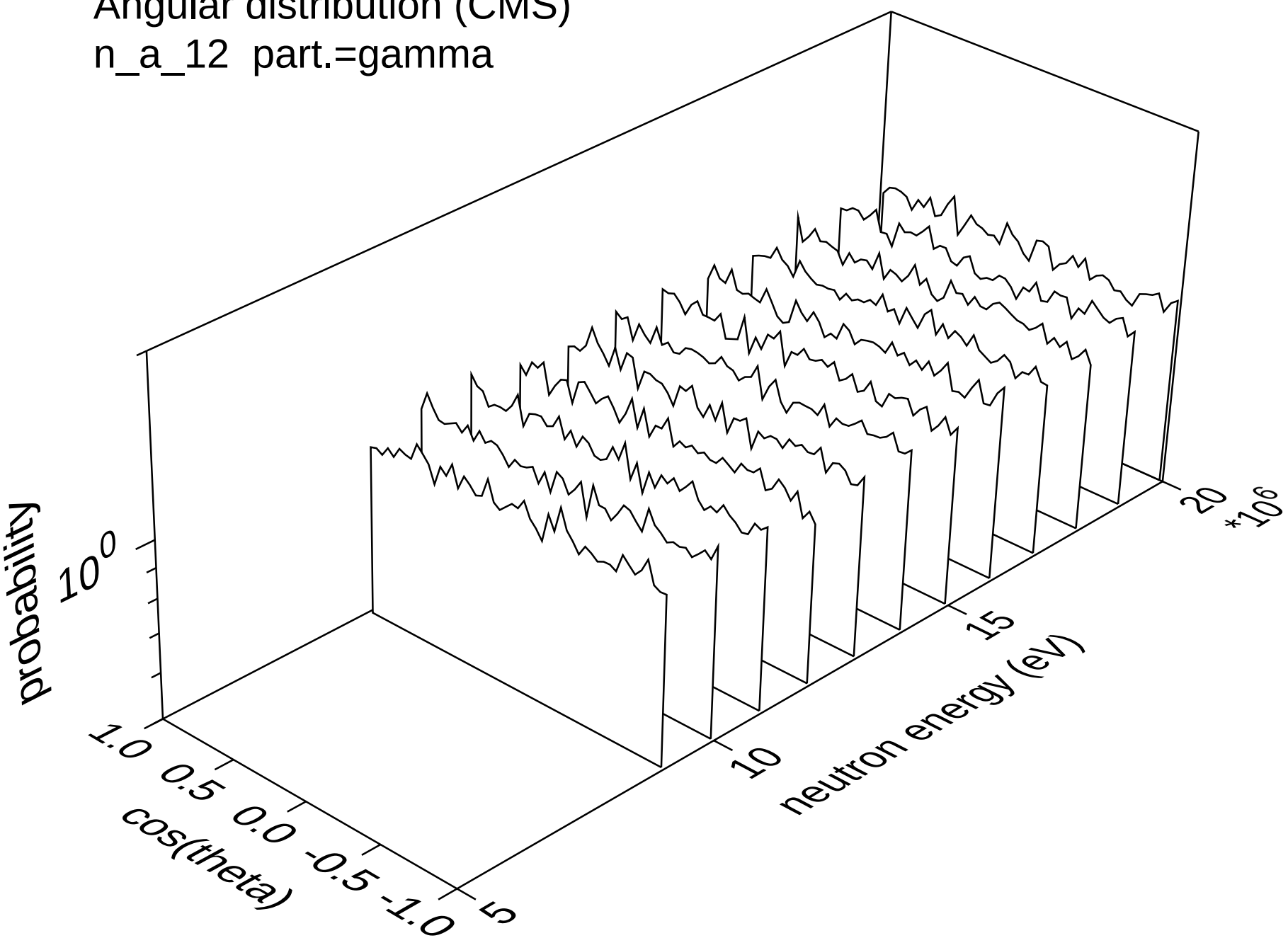

Angular distribution (CMS)
n_a_10 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

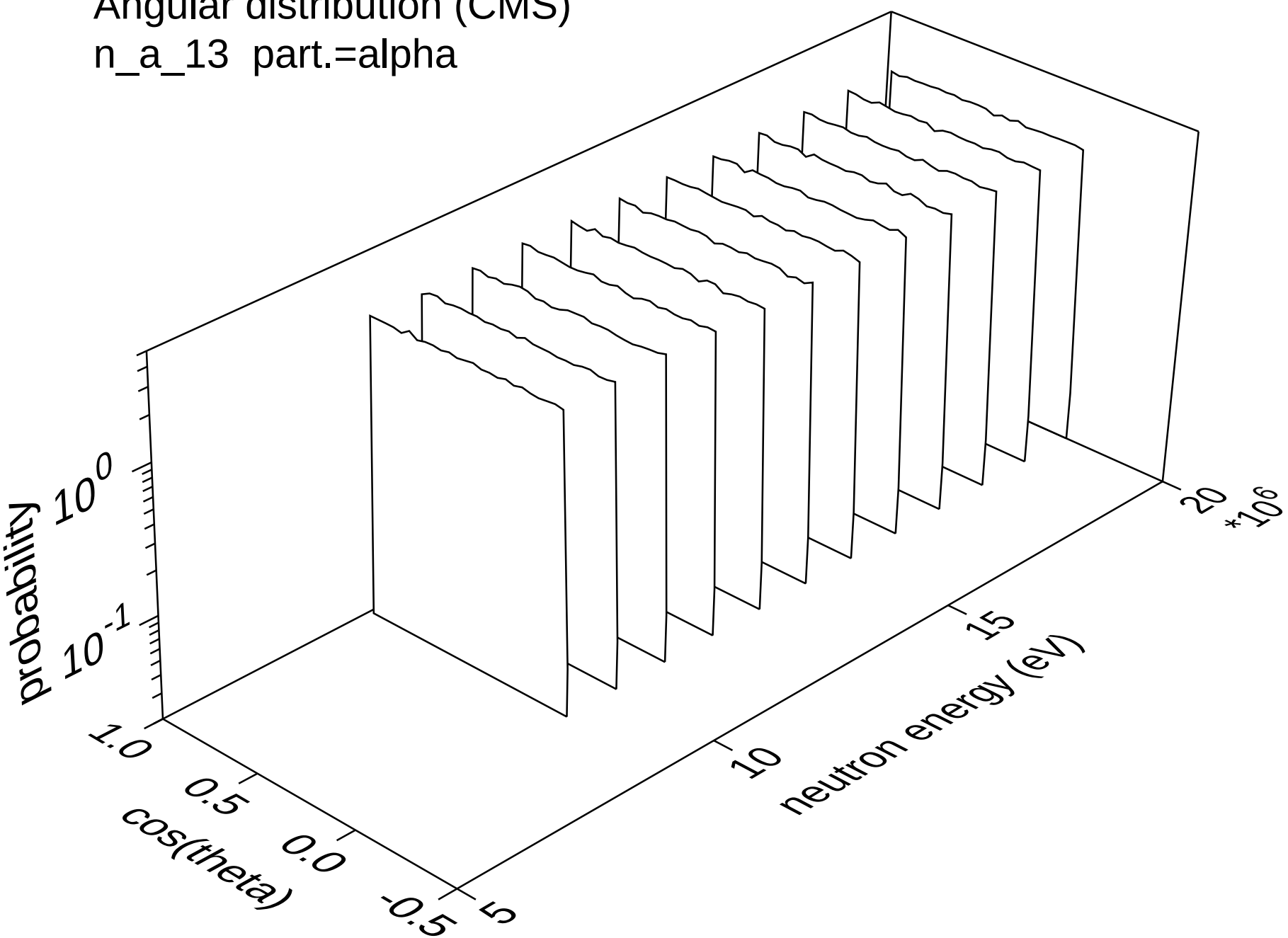

Angular distribution (CMS)
n_a_10 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

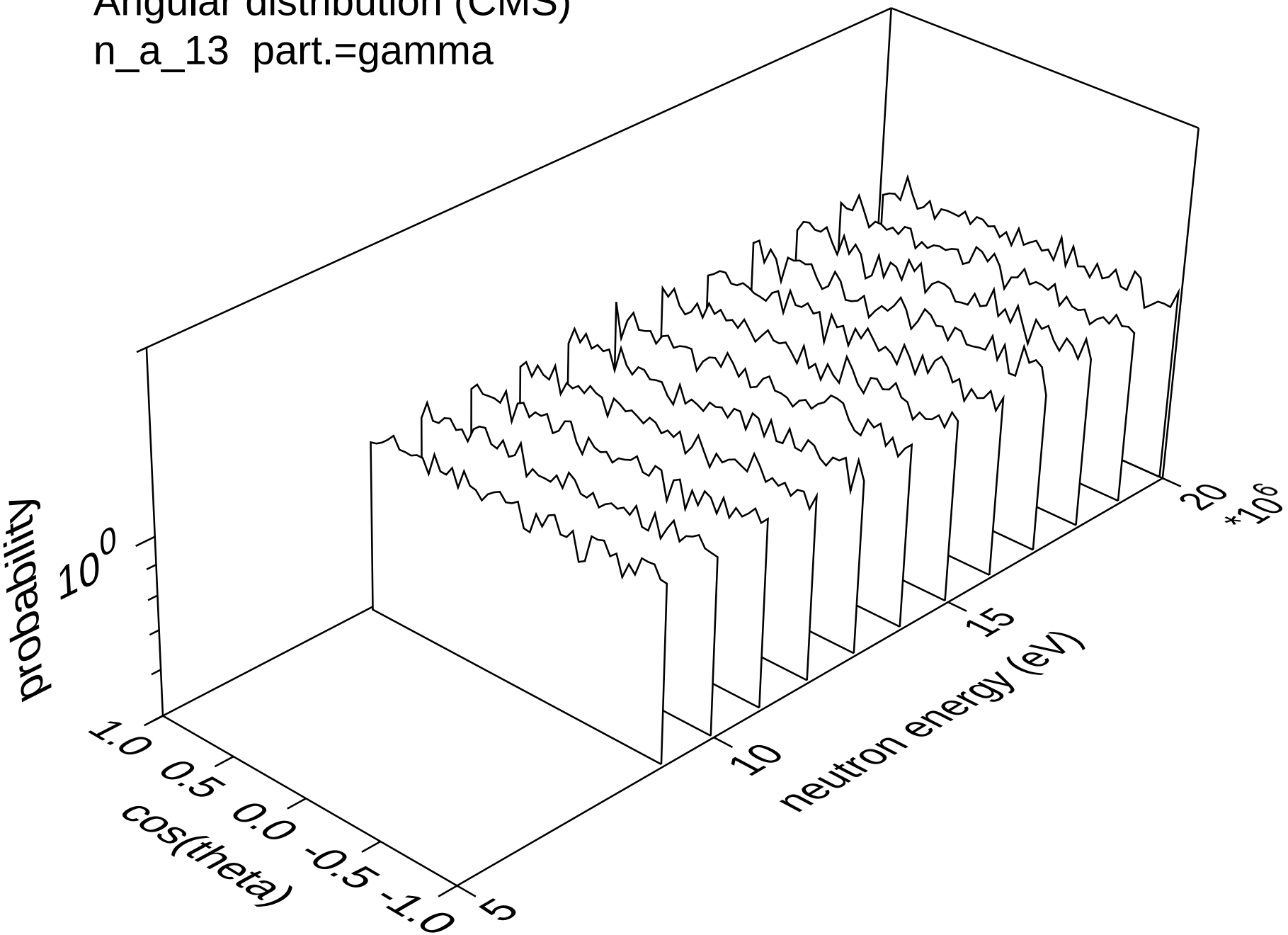

Angular distribution (CMS)
n_a_11 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

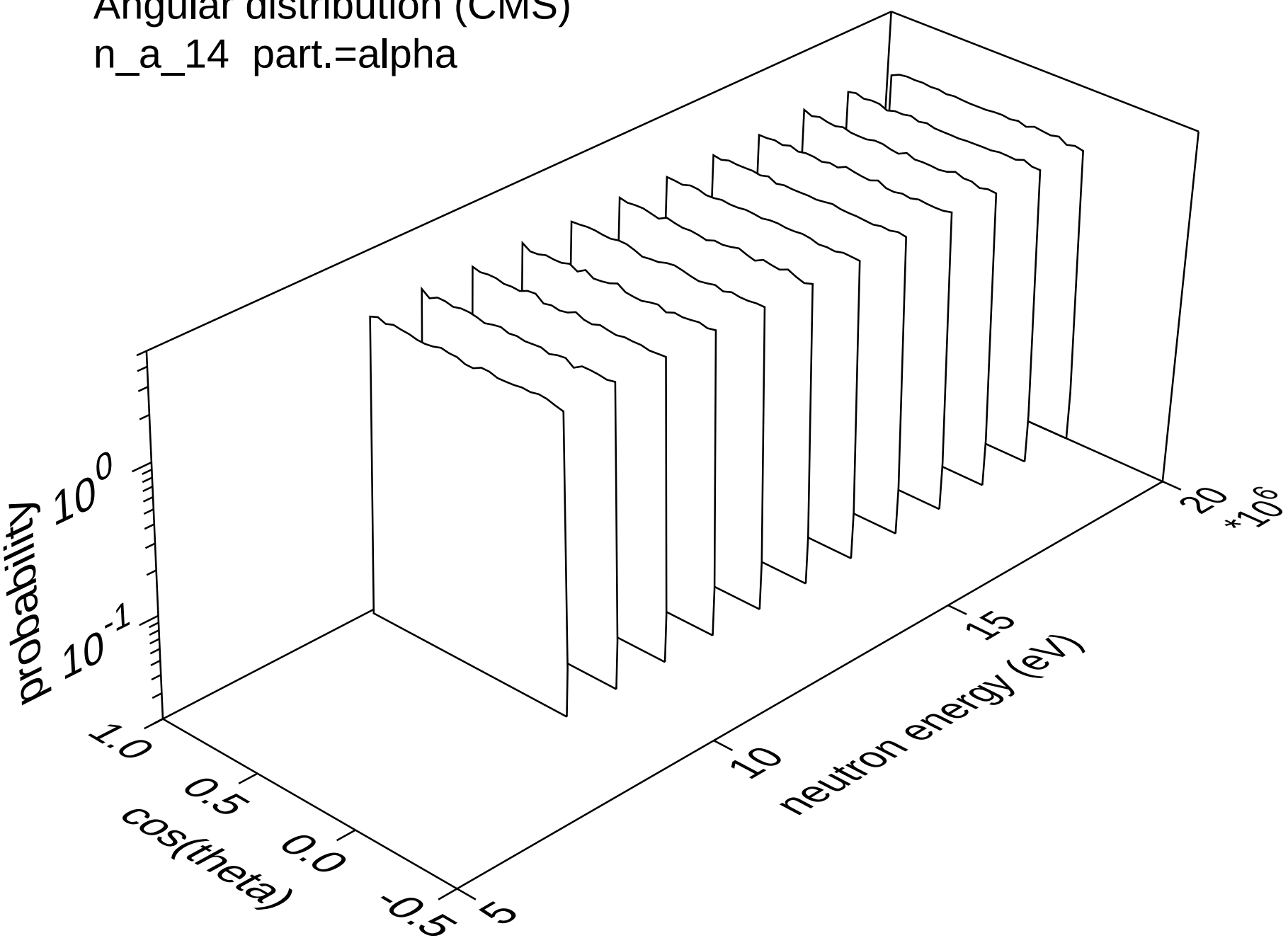

Angular distribution (CMS)
n_a_11 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

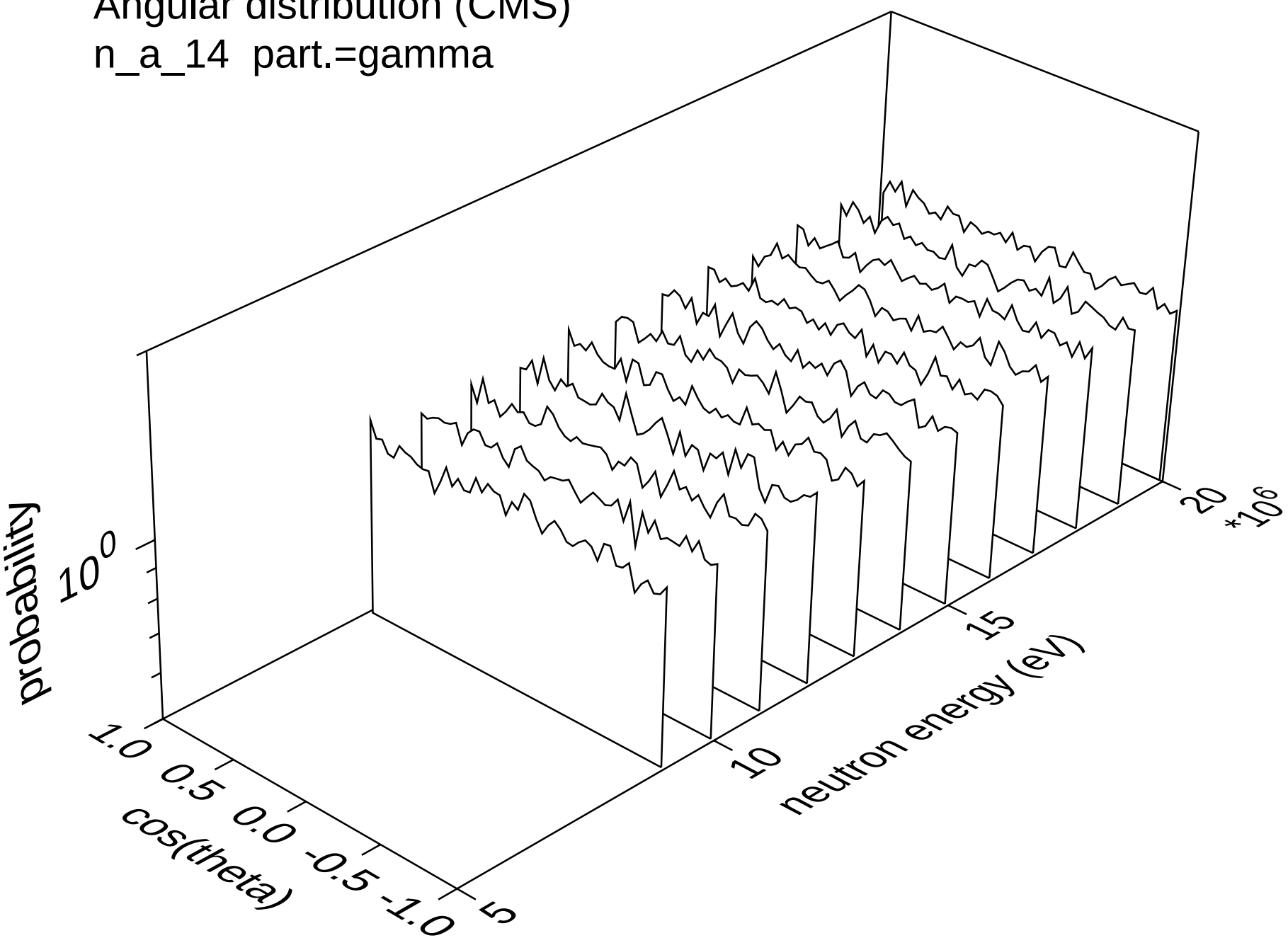

Angular distribution (CMS)
n_a_12 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

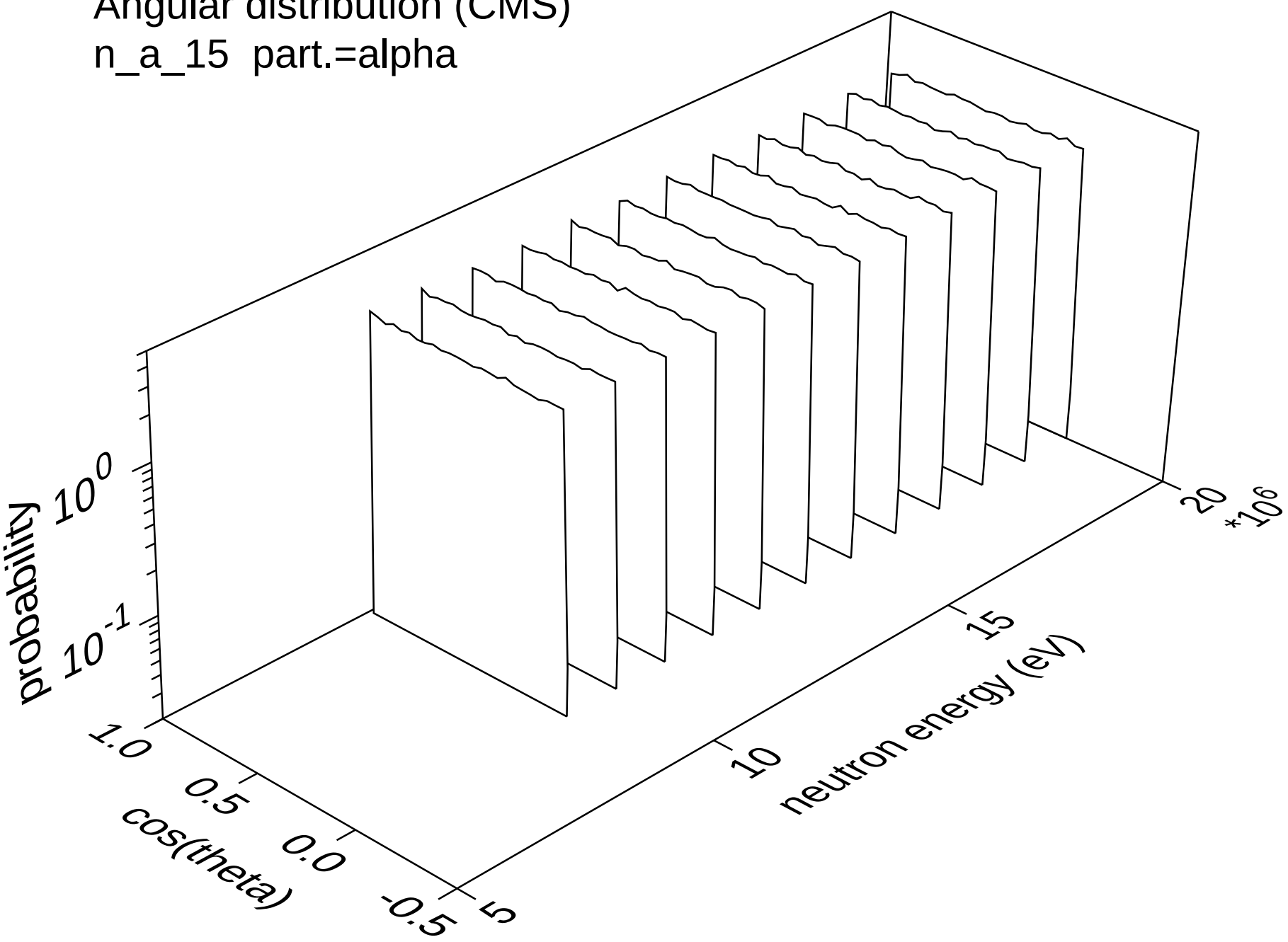

Angular distribution (CMS)
n_a_12 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

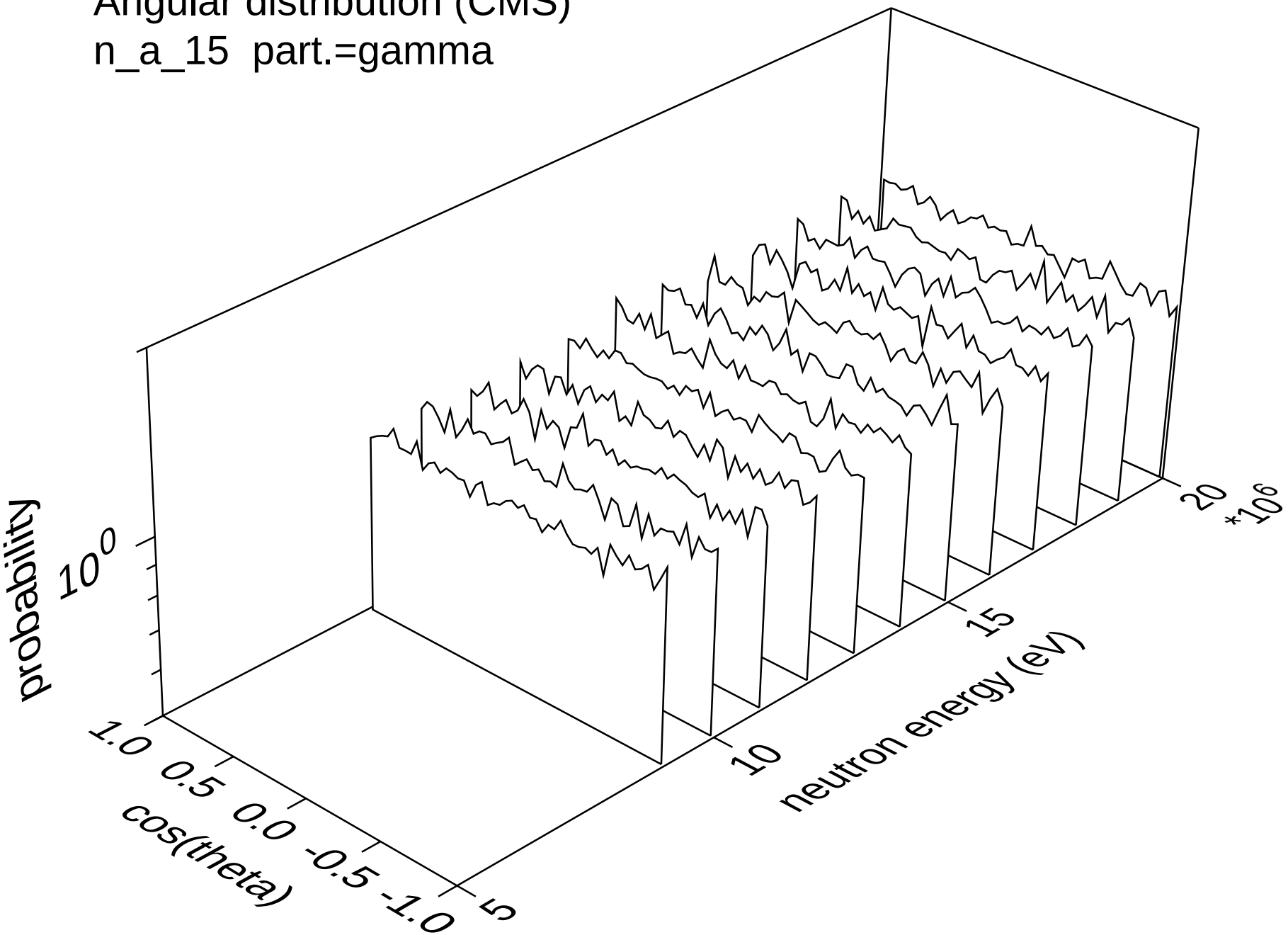

Angular distribution (CMS)
n_a_13 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

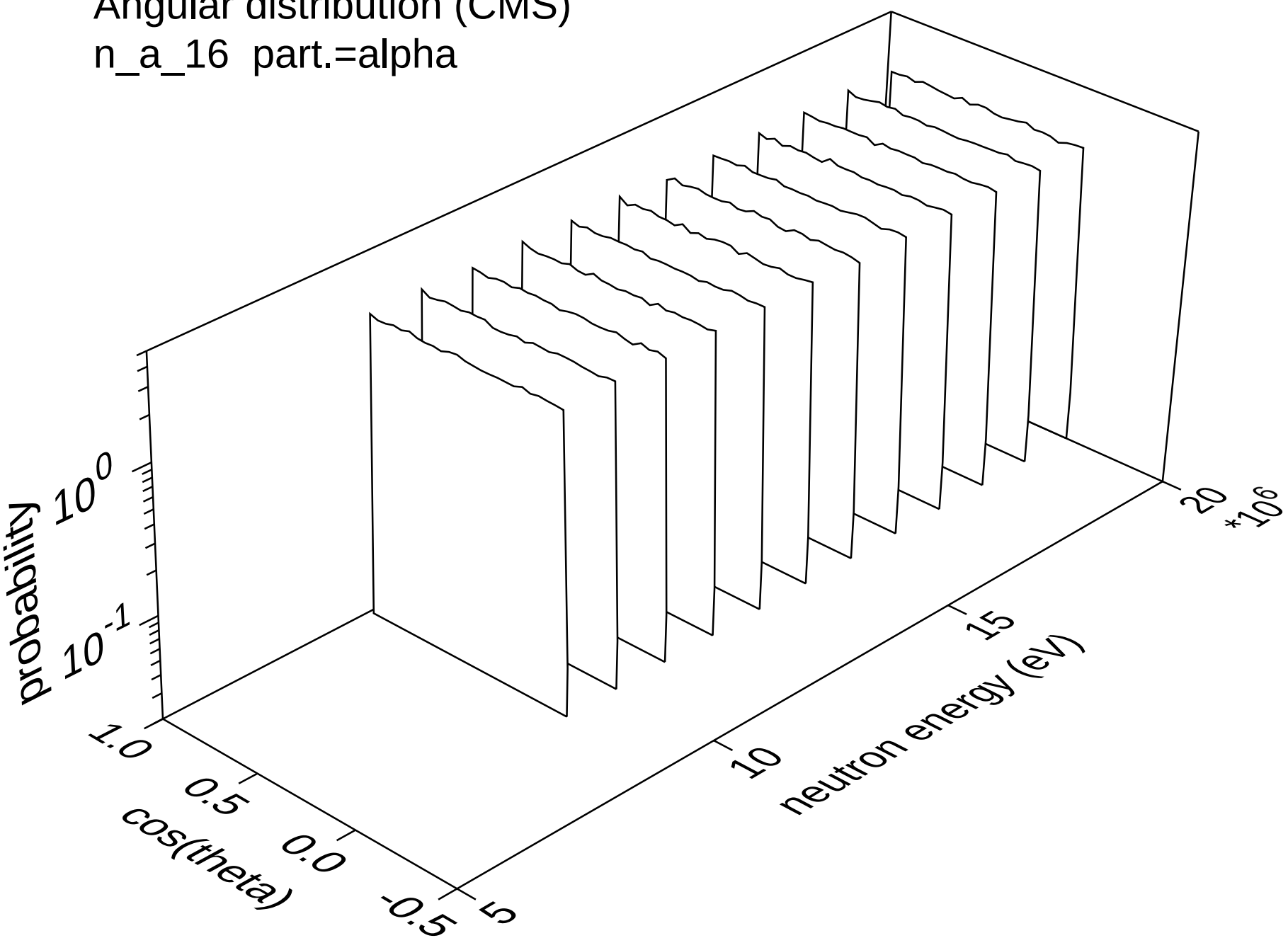

Angular distribution (CMS)
n_a_13 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

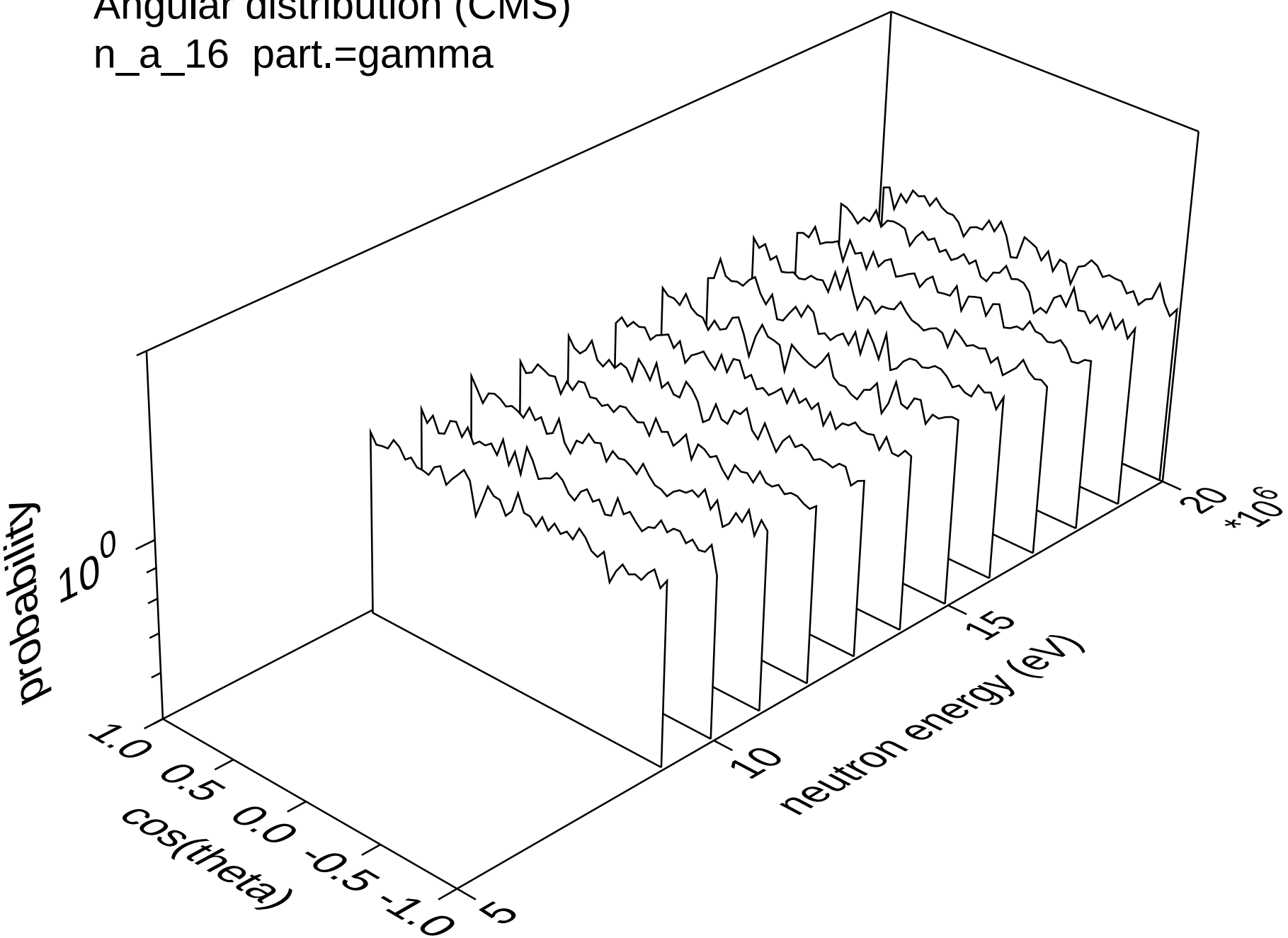

Angular distribution (CMS)
n_a_14 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

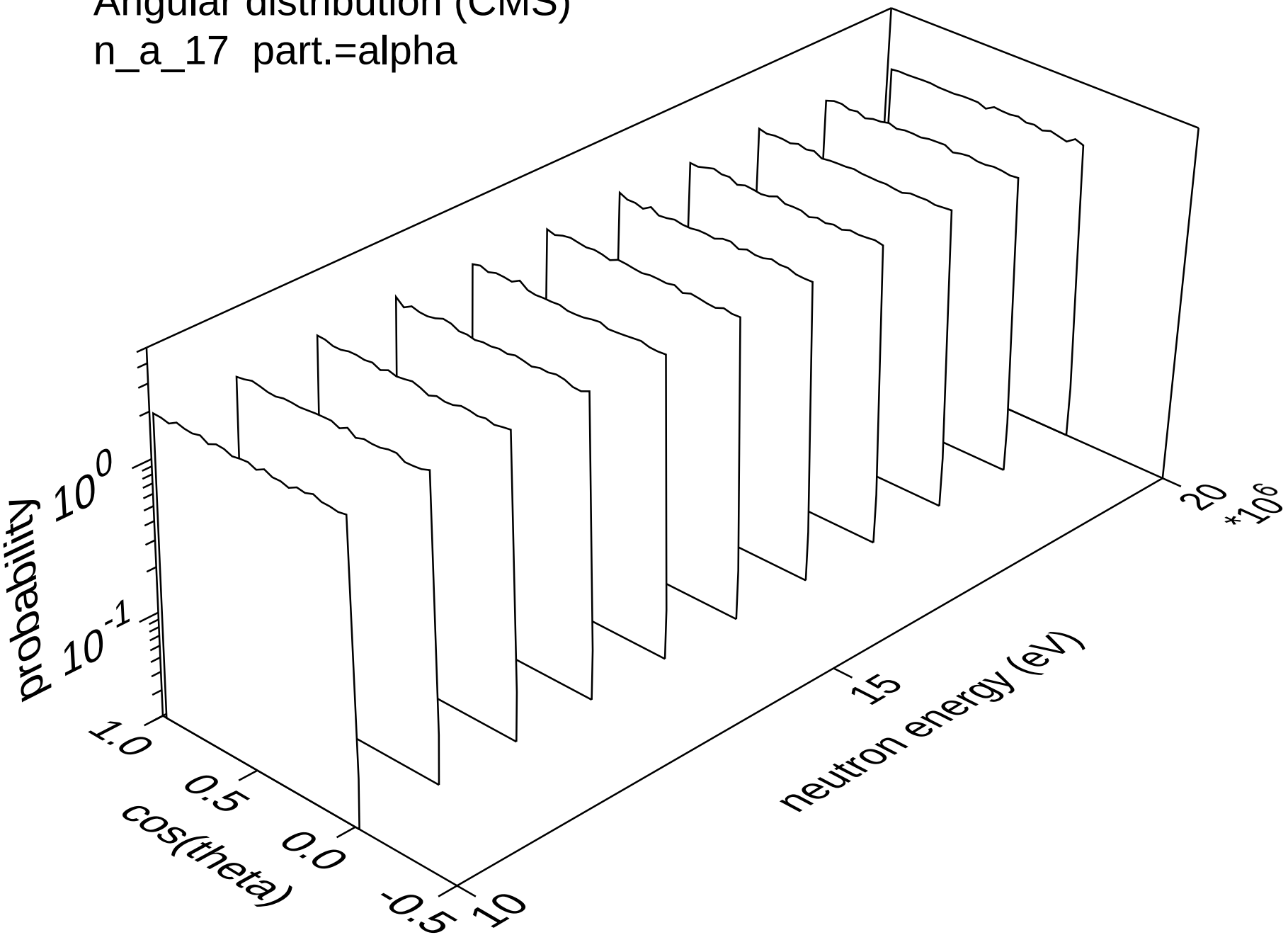

Angular distribution (CMS)
n_a_14 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

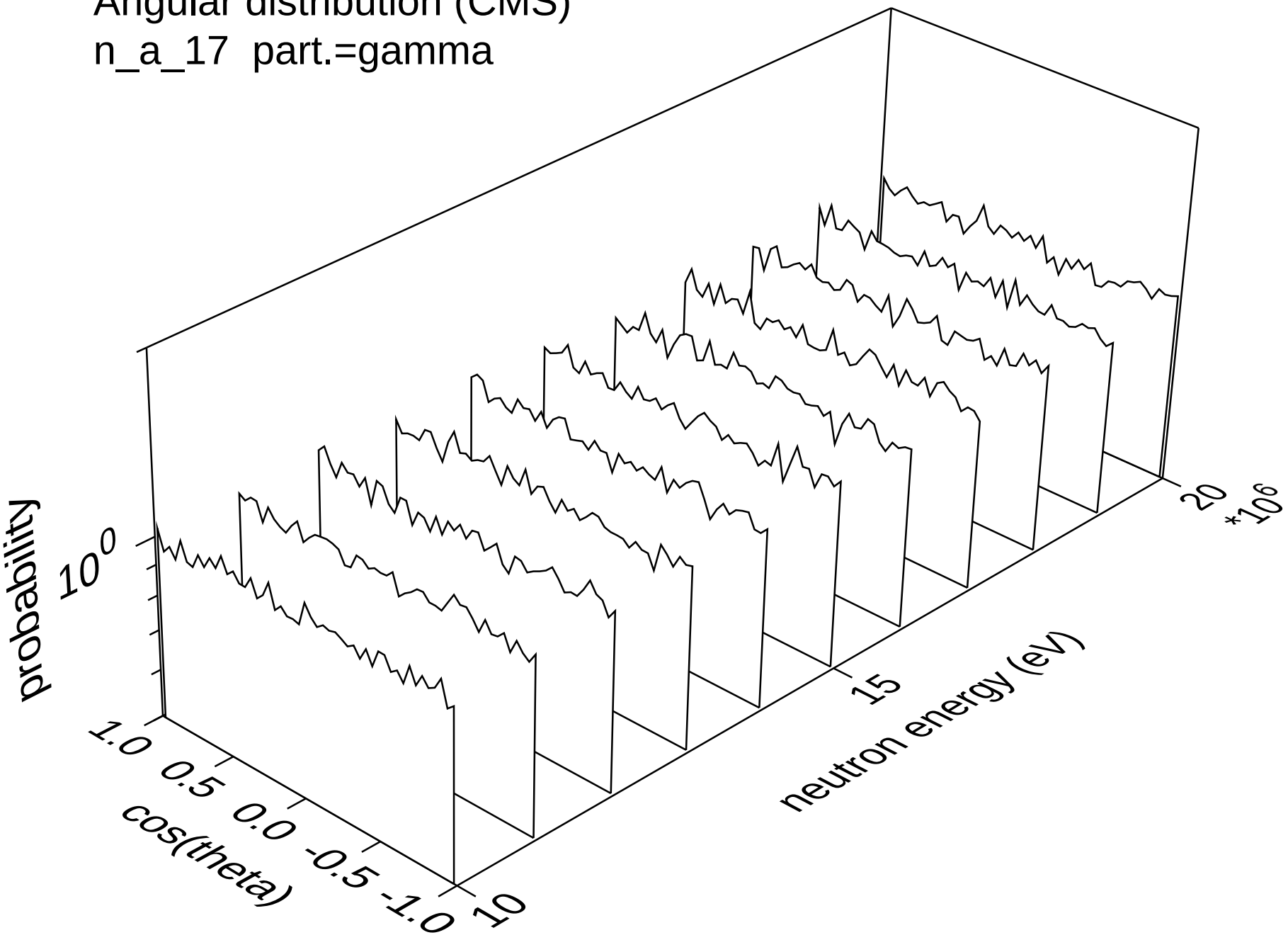

Angular distribution (CMS)
n_a_15 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

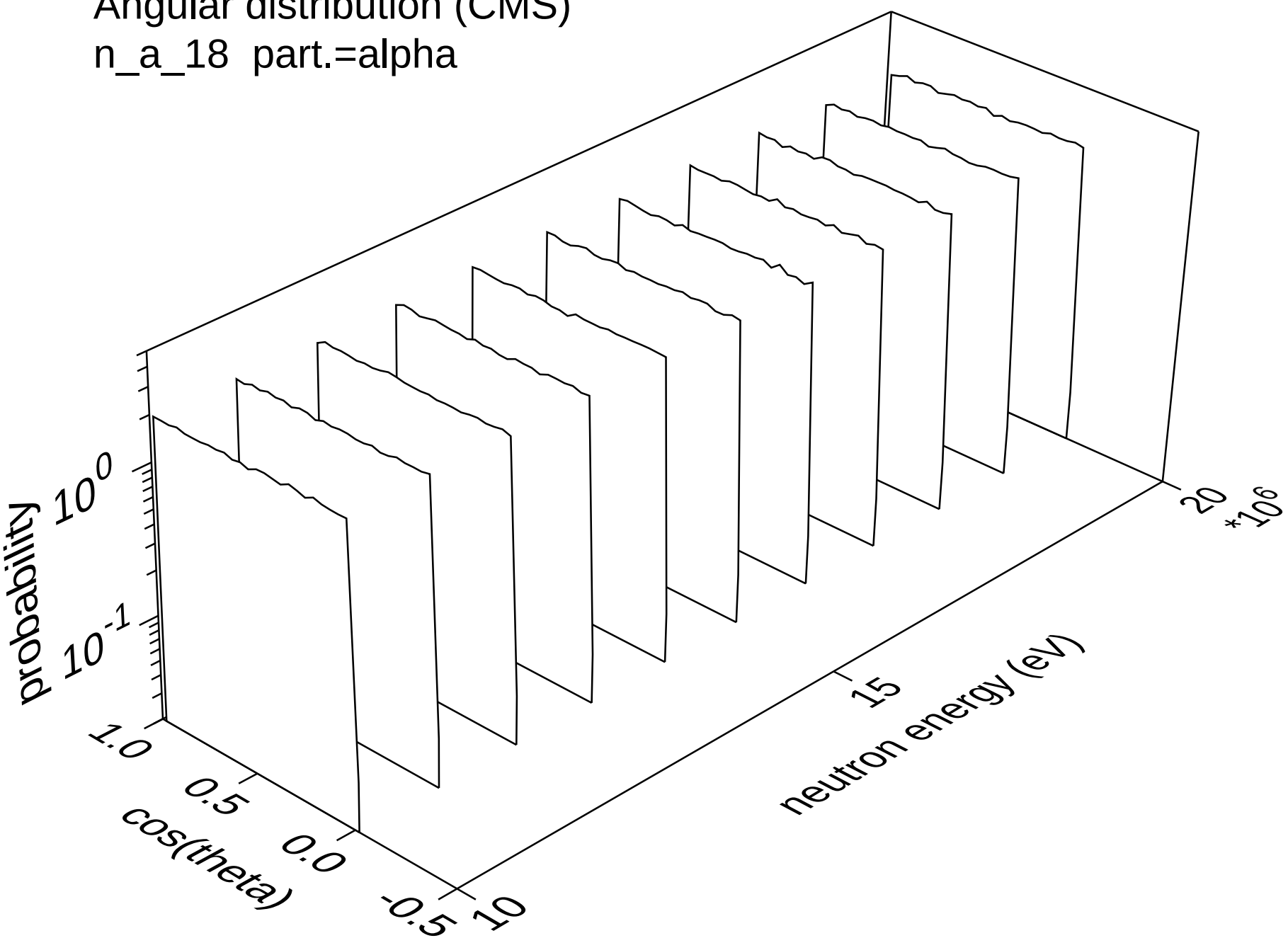

Angular distribution (CMS)
n_a_15 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

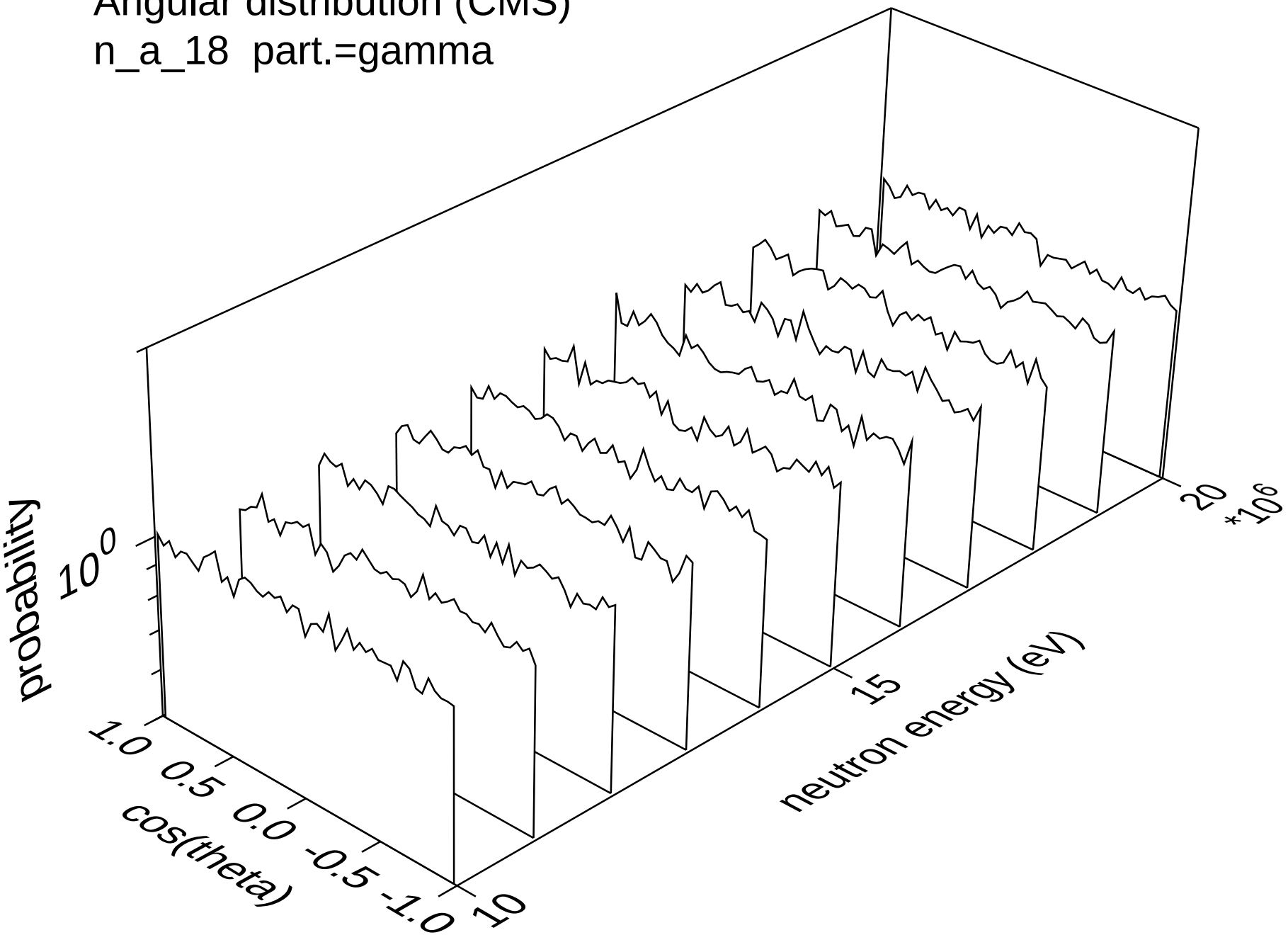

Angular distribution (CMS)
n_a_16 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

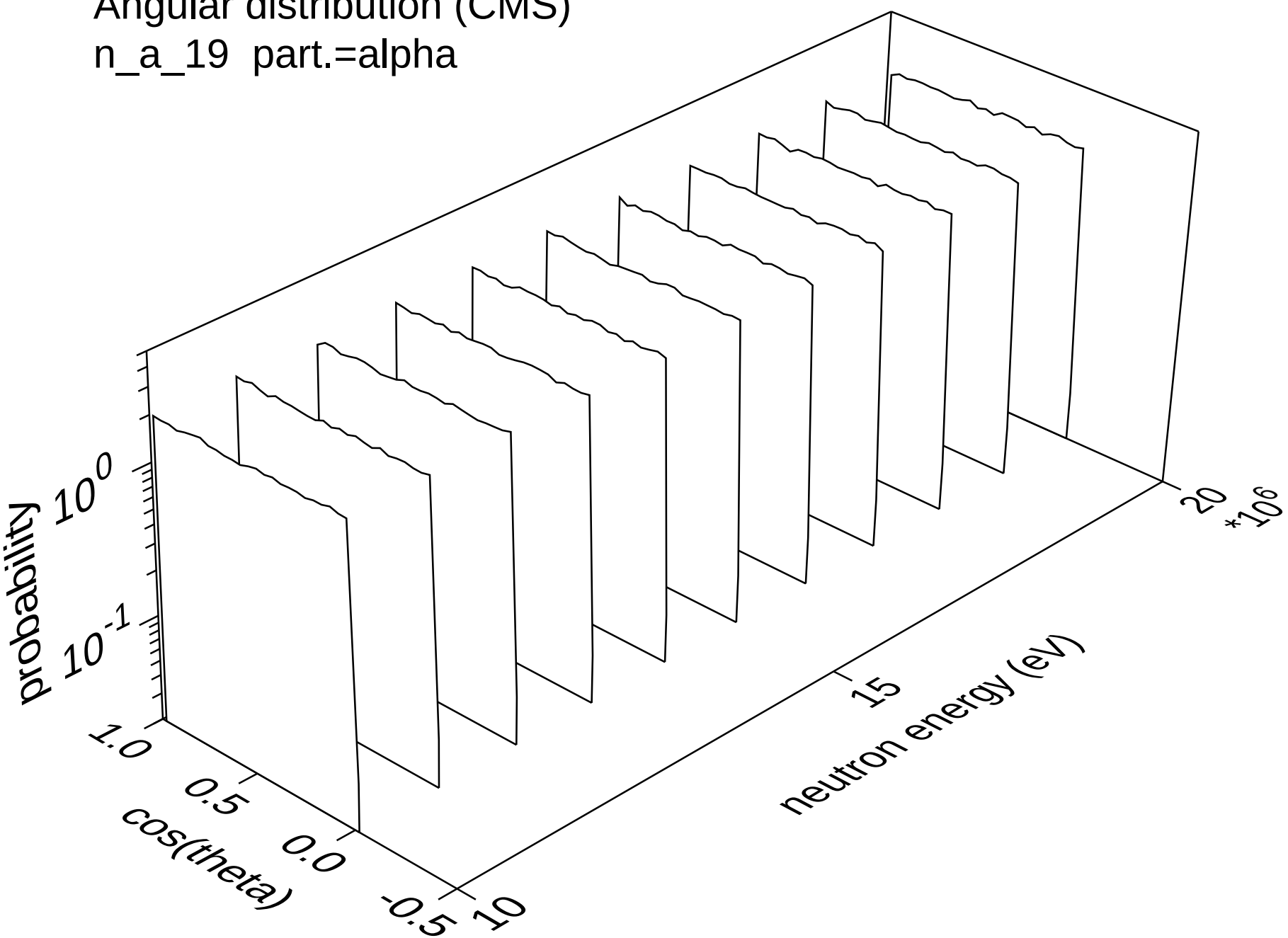

Angular distribution (CMS)
n_a_16 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

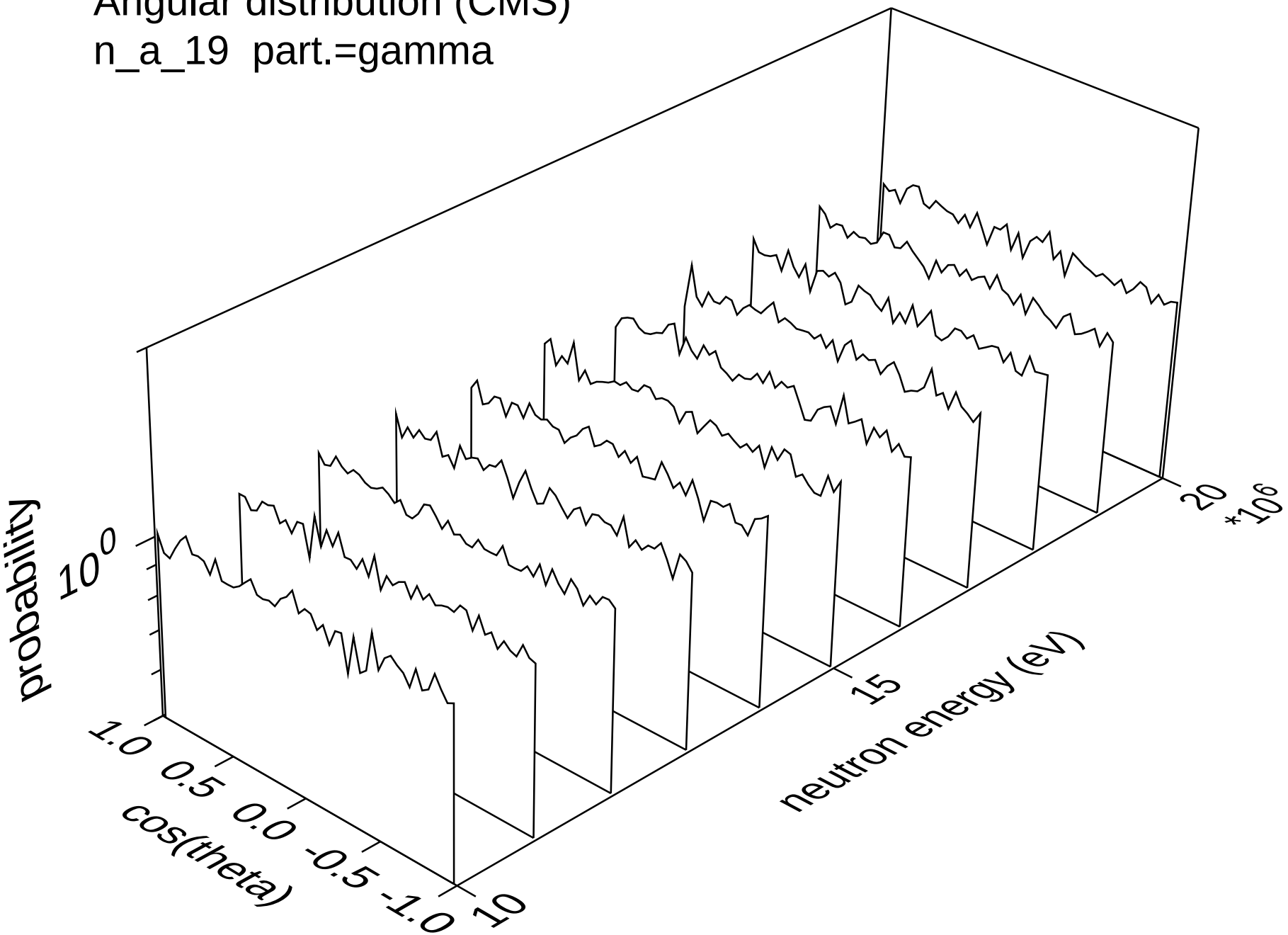

Angular distribution (CMS)
n_a_17 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
10
15
20
neutron energy (eV)
*10^6

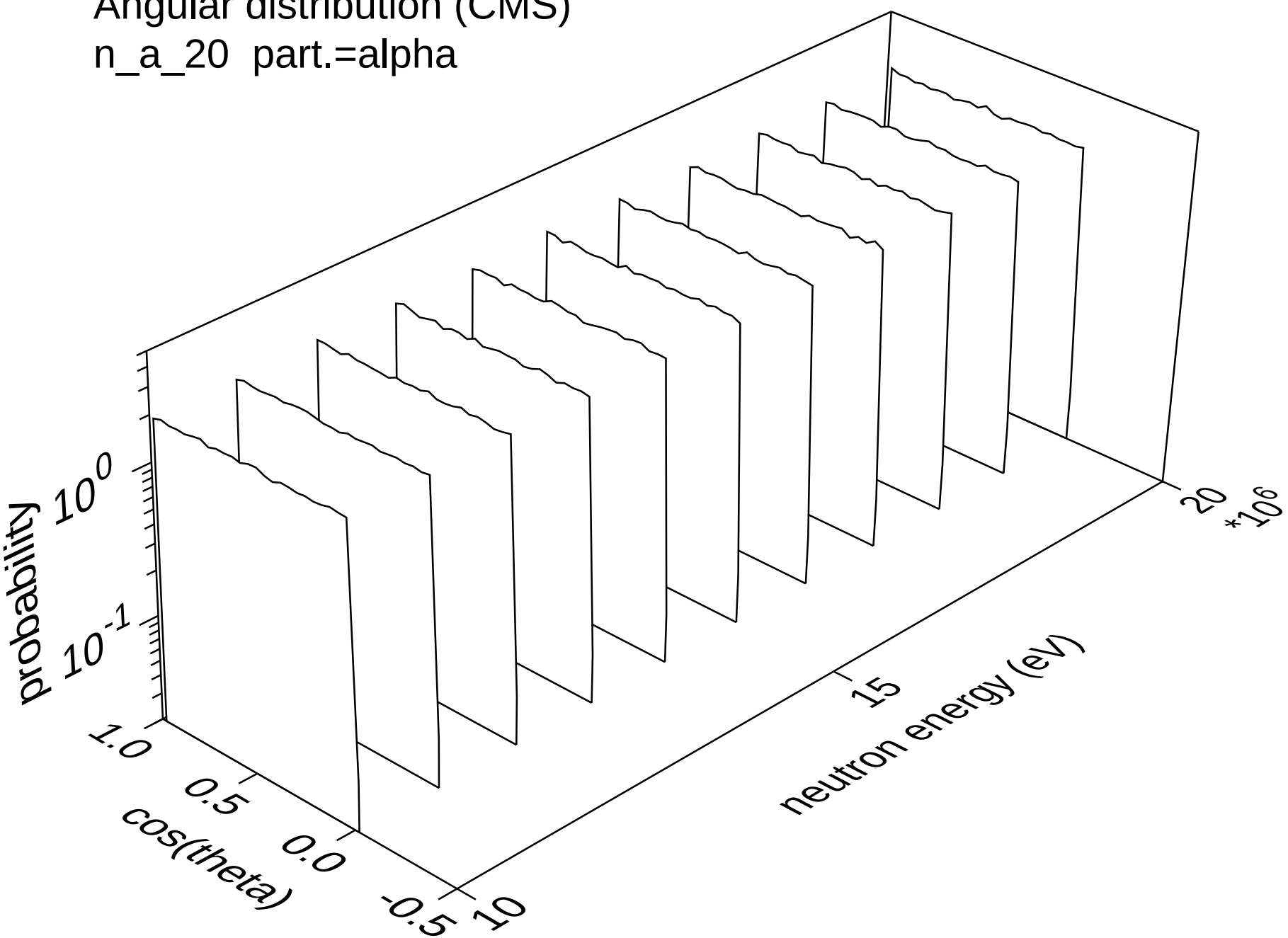

Angular distribution (CMS)
n_a_17 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
*10^6
neutron energy (eV)

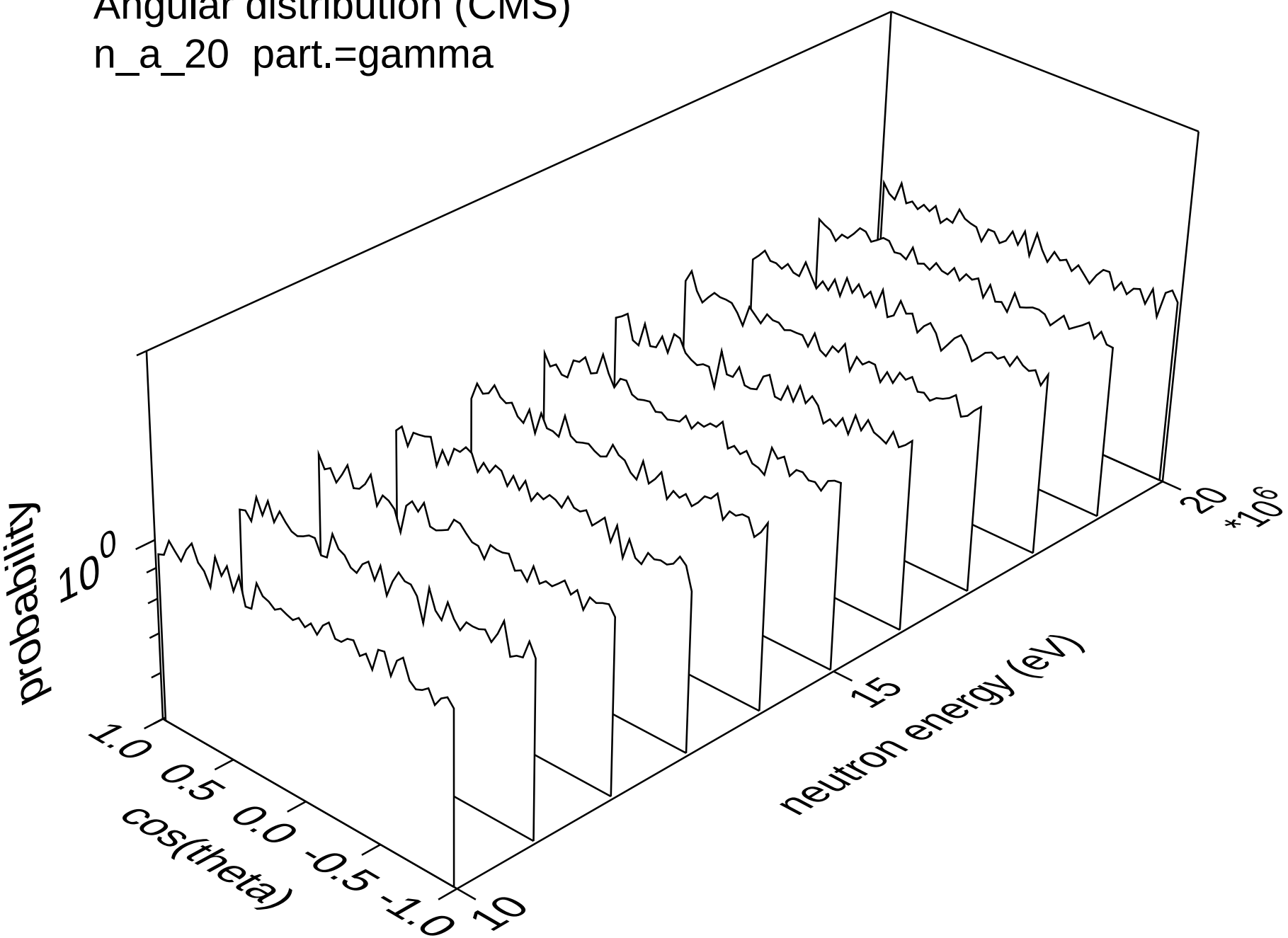

Angular distribution (CMS)
n_a_18 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
10
15
20
neutron energy (eV)
*10^6

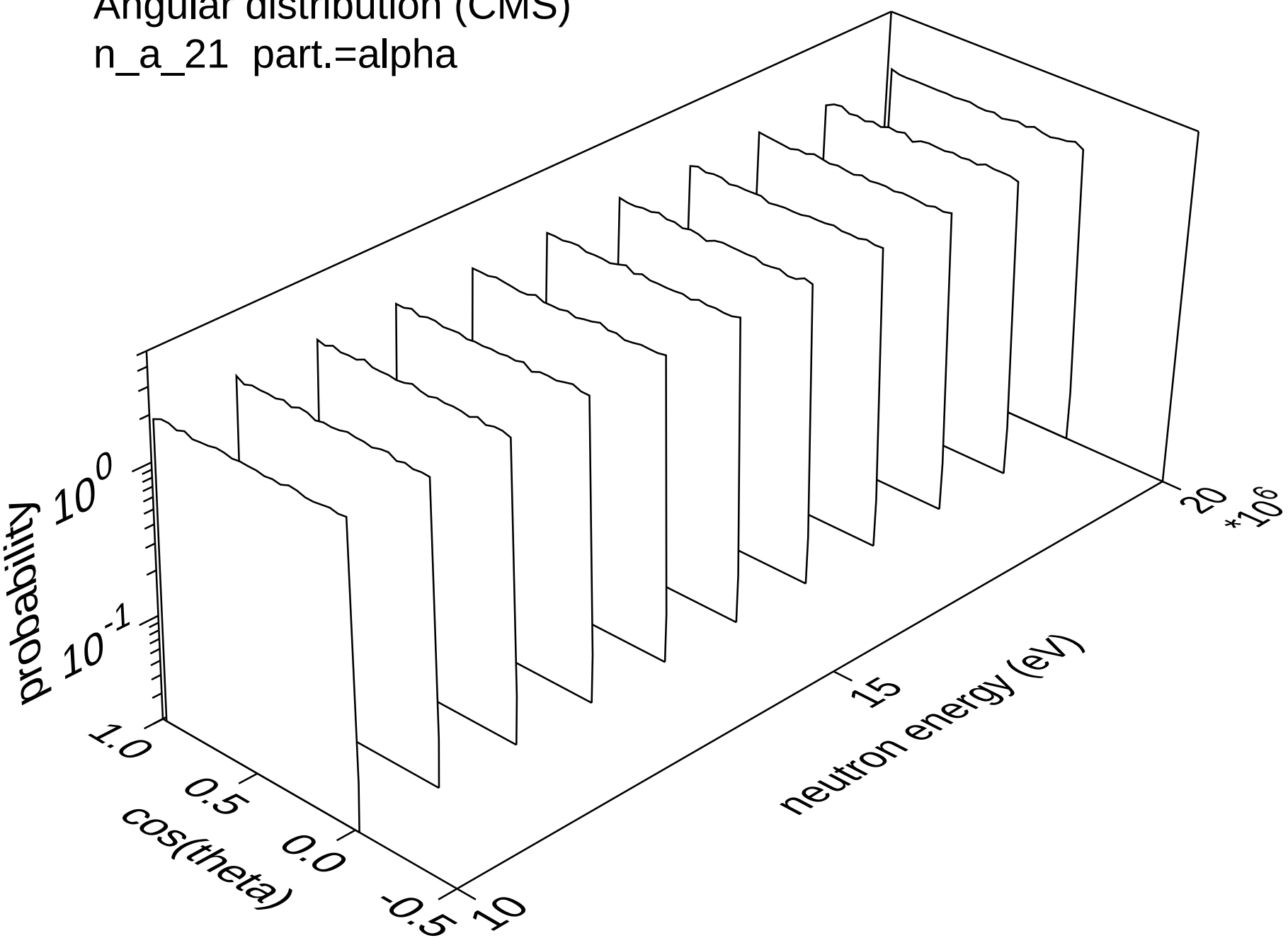

Angular distribution (CMS)
n_a_18 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
neutron energy (eV)
*10^6

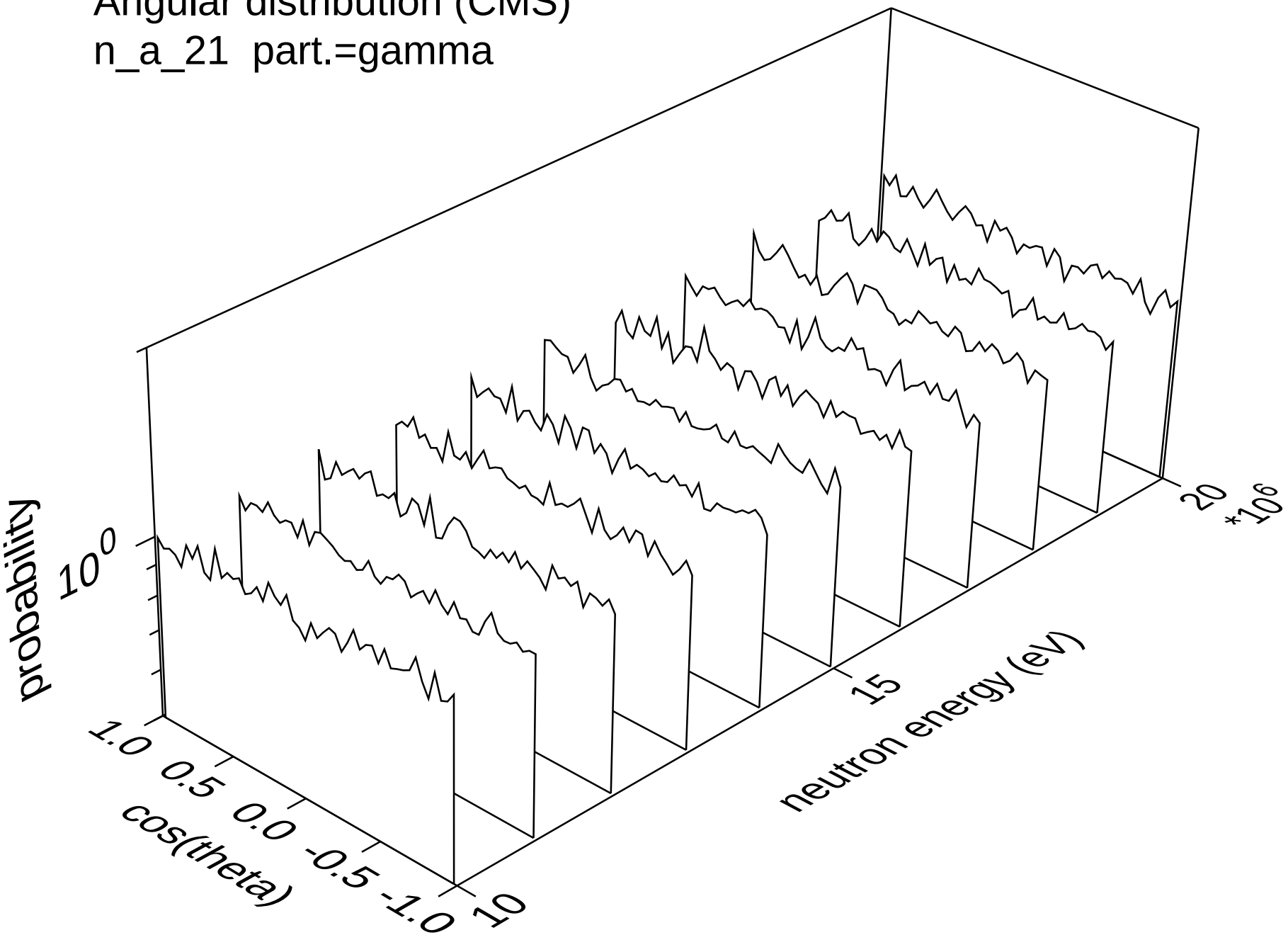

Angular distribution (CMS)
n_a_19 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
10
15
20
neutron energy (eV)
*10^6

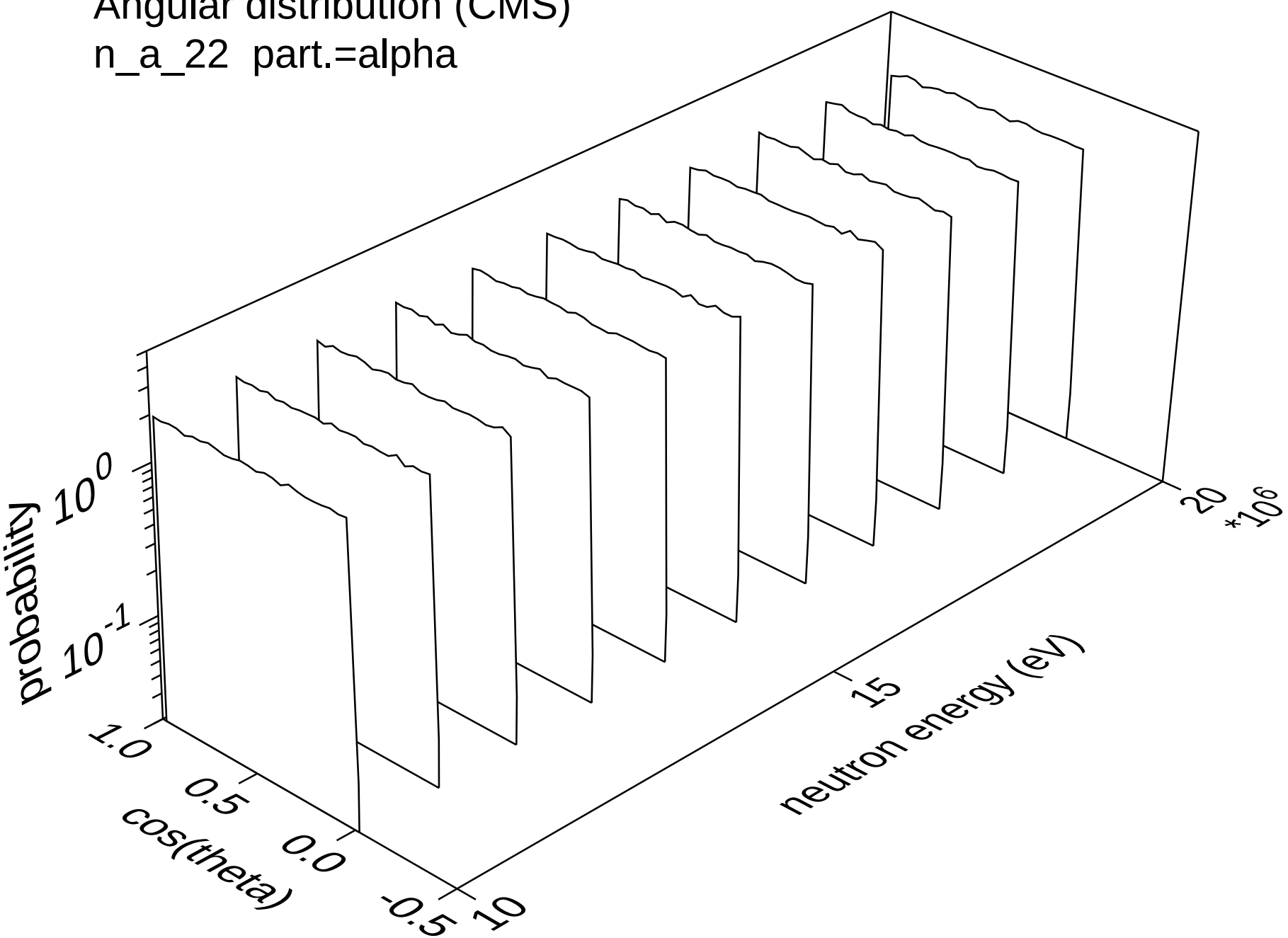

Angular distribution (CMS)
n_a_19 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
*10^6
neutron energy (eV)

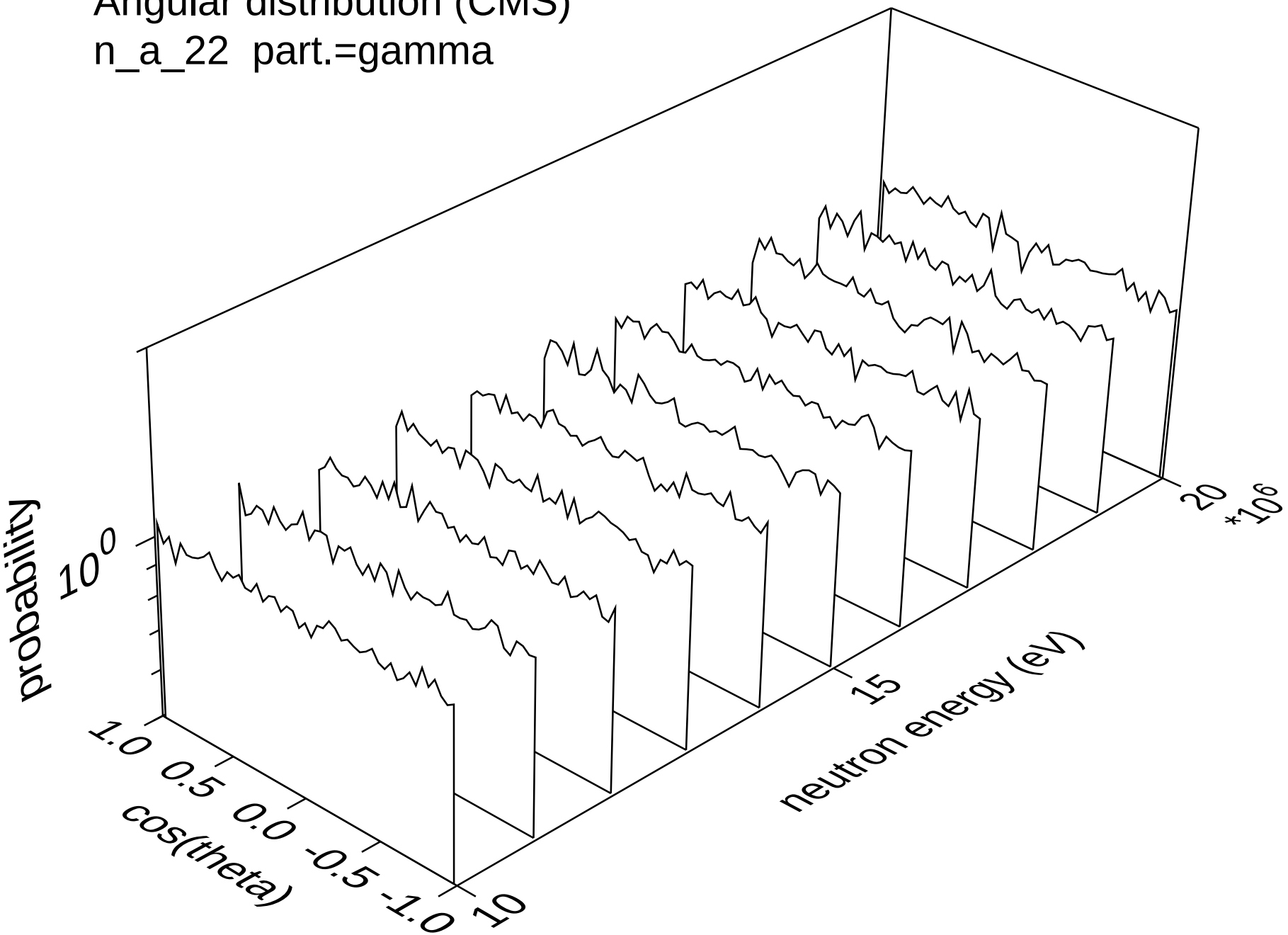

Angular distribution (CMS)
n_a_20 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
10
15
20
*10^6
neutron energy (eV)

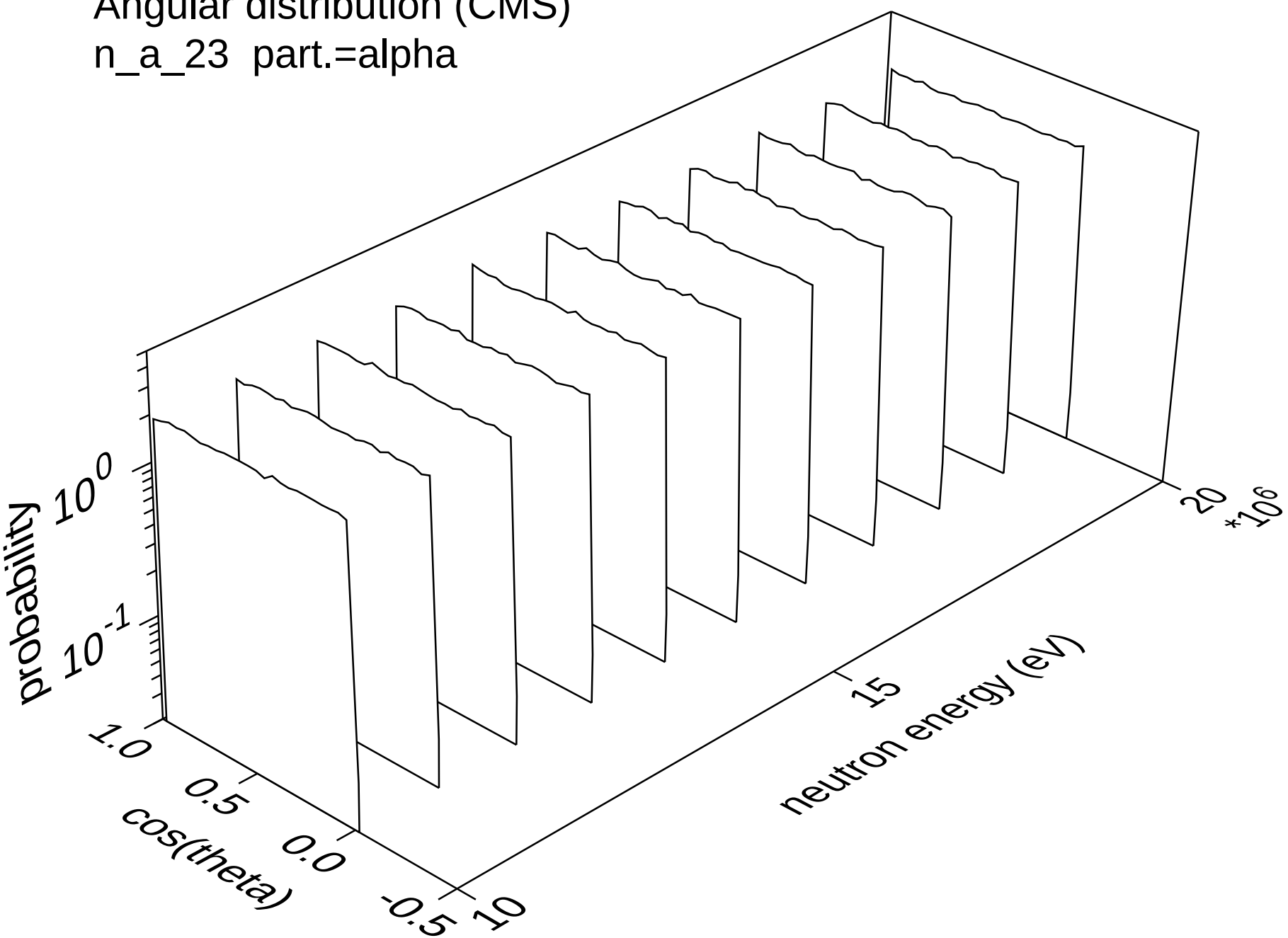

Angular distribution (CMS)
n_a_20 part.=gamma
probability
10^0
1.0 0.5 0.0 -0.5 -1.0
cos(theta)
10
15
20
*10^6
neutron energy (eV)

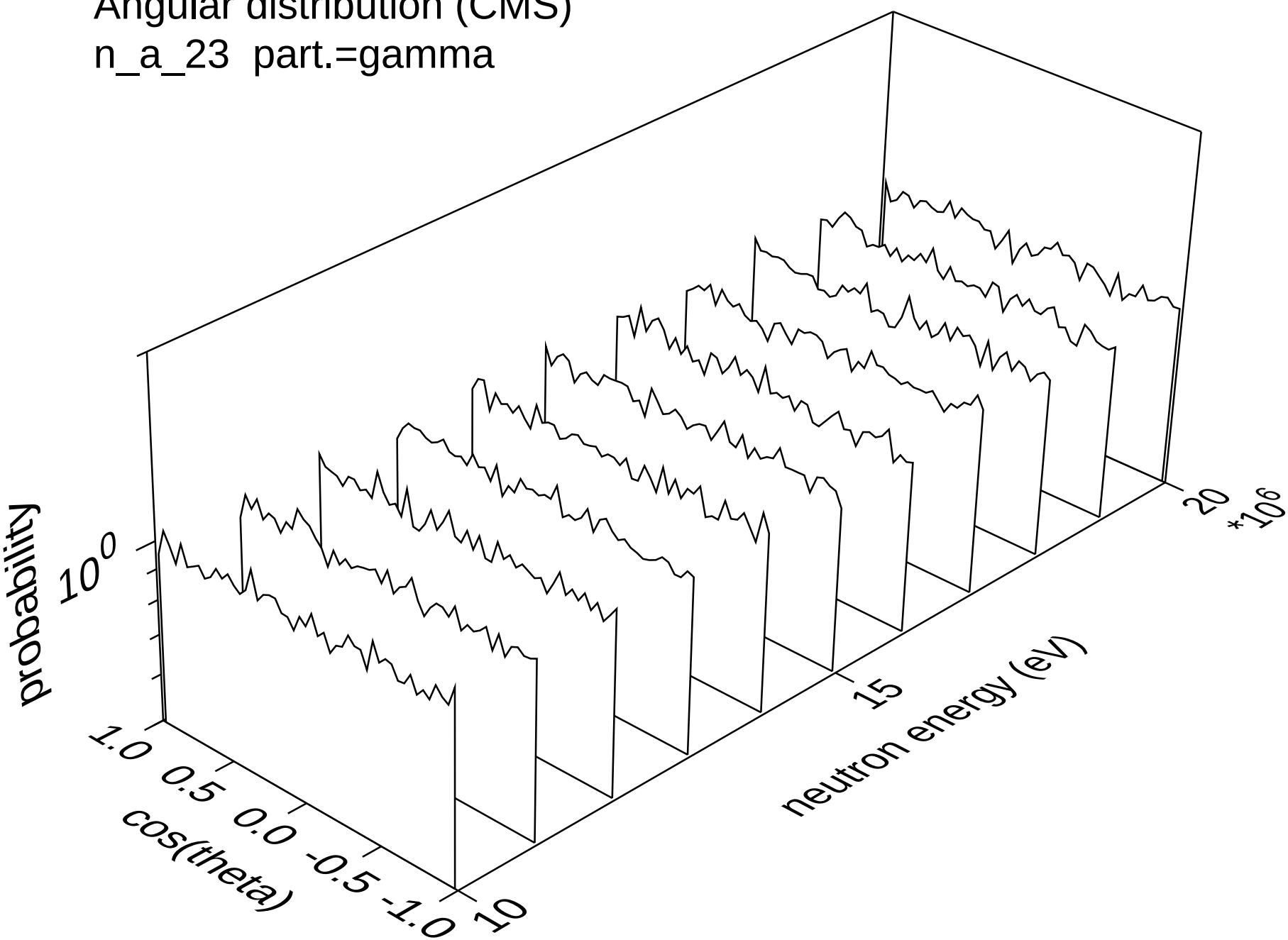

Angular distribution (CMS)
n_a_21 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
10
15
20
neutron energy (eV)
*10^6

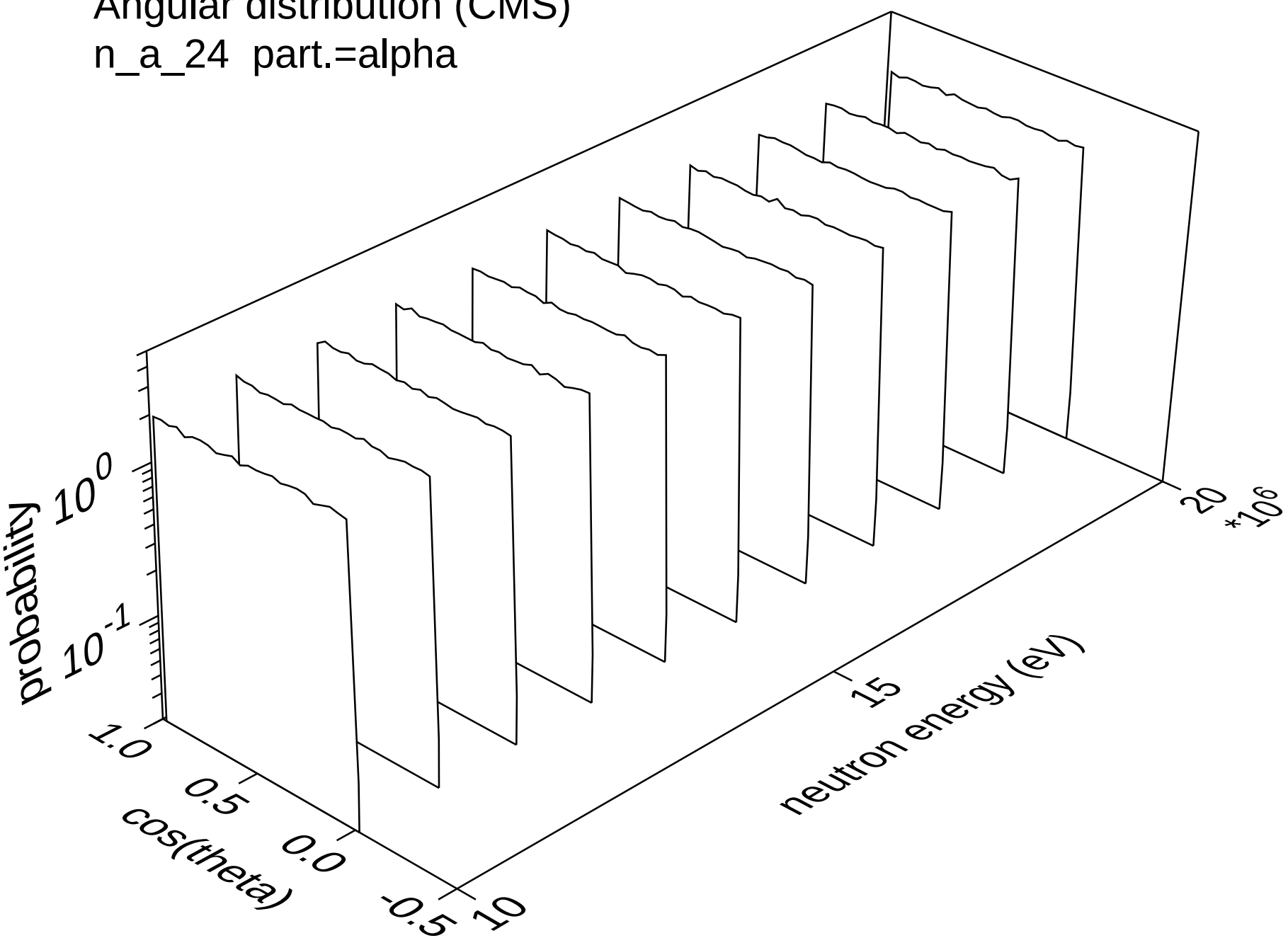

Angular distribution (CMS)
n_a_21 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
*10^6
neutron energy (eV)

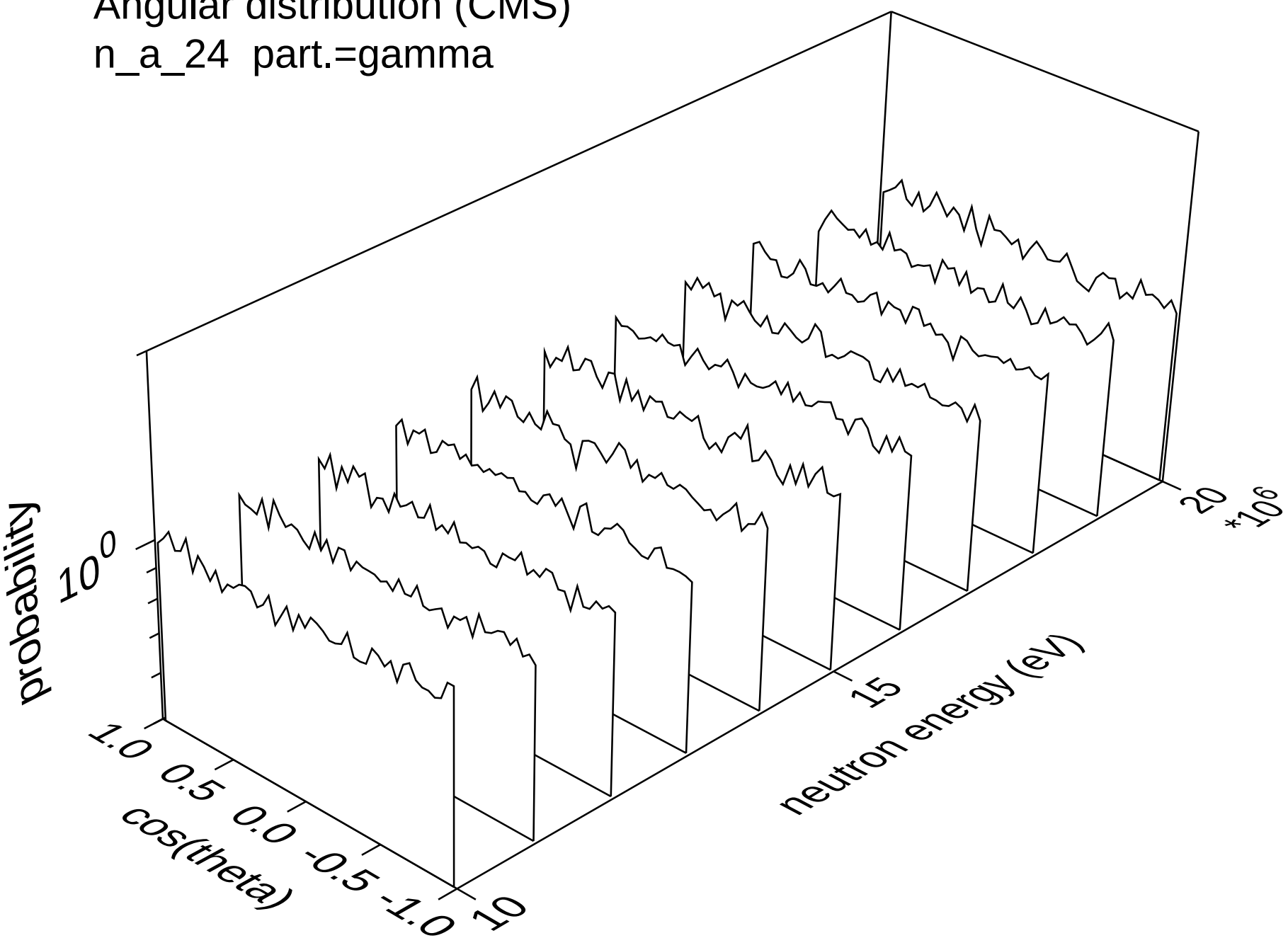

Angular distribution (CMS)
n_a_22 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
10
15
20
*10^6
neutron energy (eV)

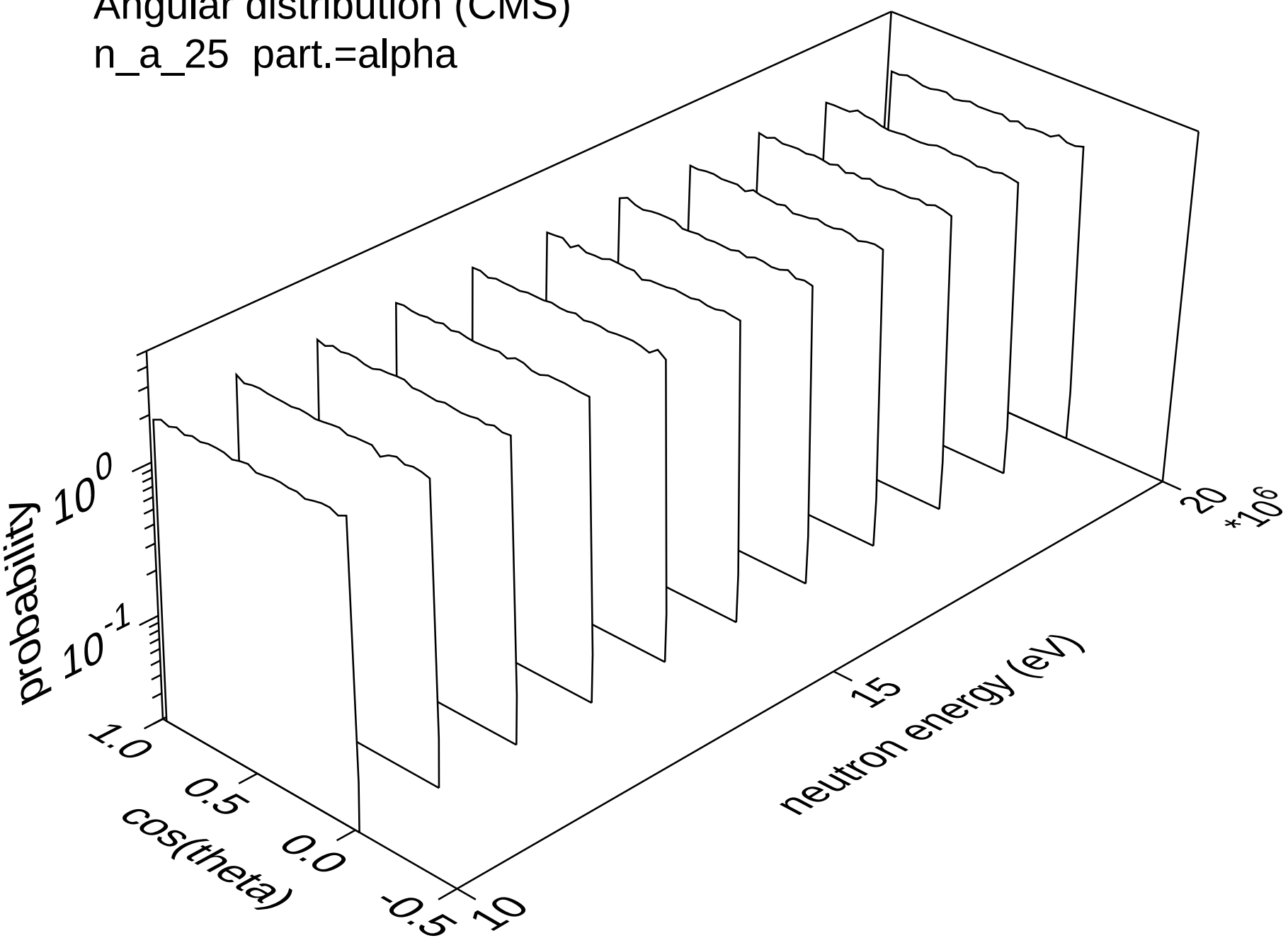

Angular distribution (CMS)
n_a_22 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
*10^6
neutron energy (eV)

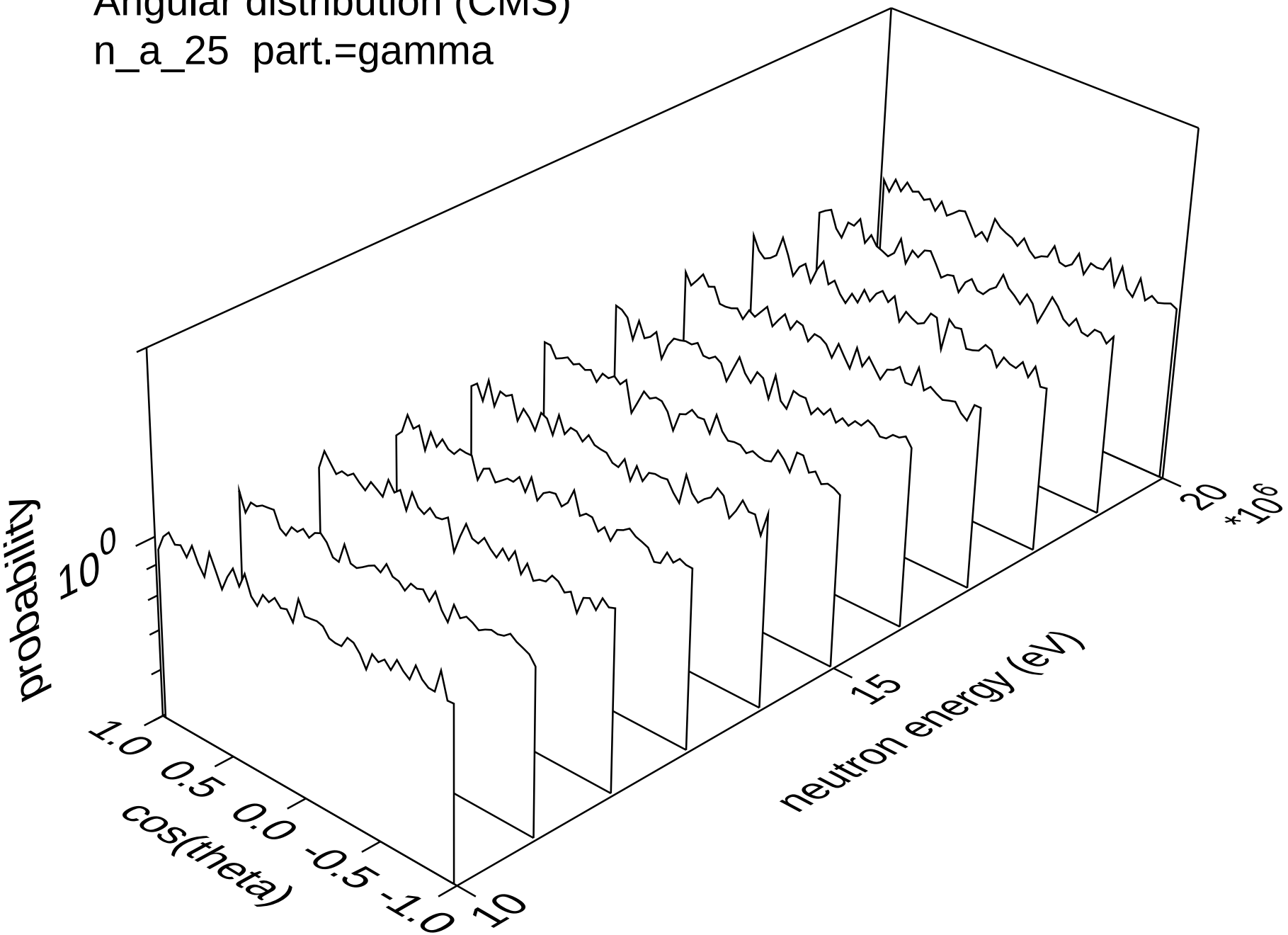

Angular distribution (CMS)
n_a_23 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
10
15
20
neutron energy (eV)
*10^6

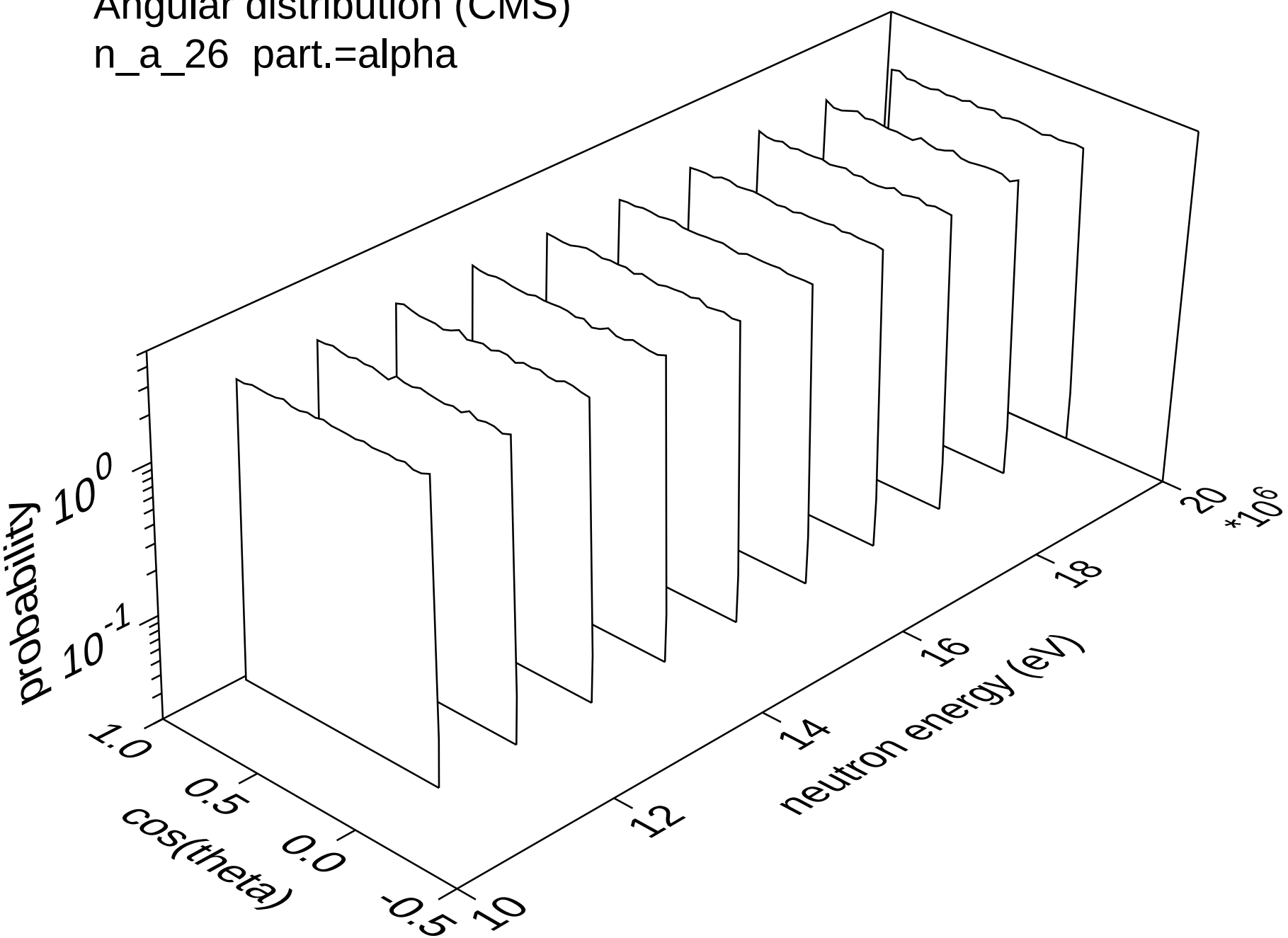

Angular distribution (CMS)
n_a_23 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
*10^6
neutron energy (eV)

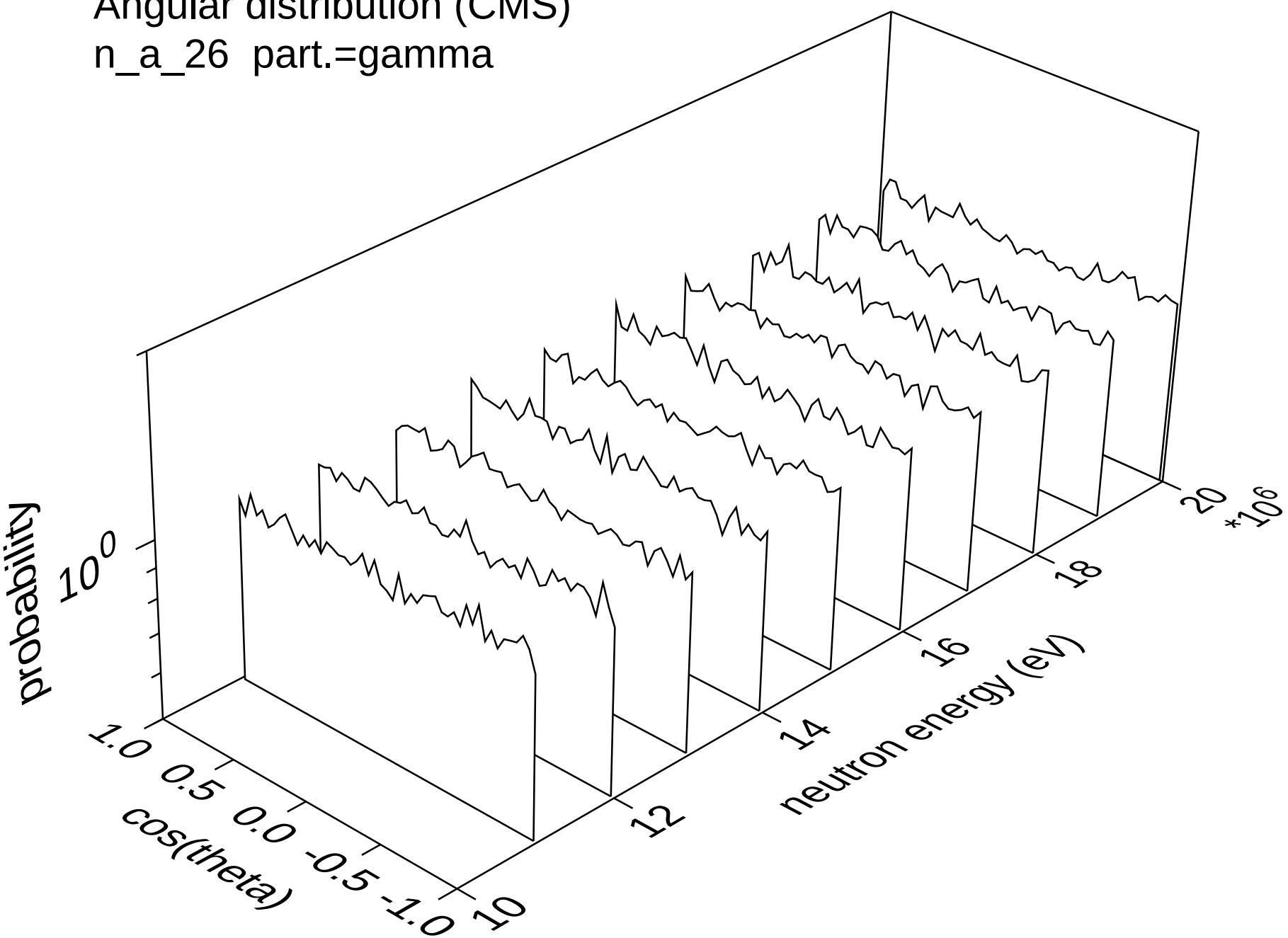

Angular distribution (CMS)
n_a_24 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
10
15
20
neutron energy (eV)
*10^6

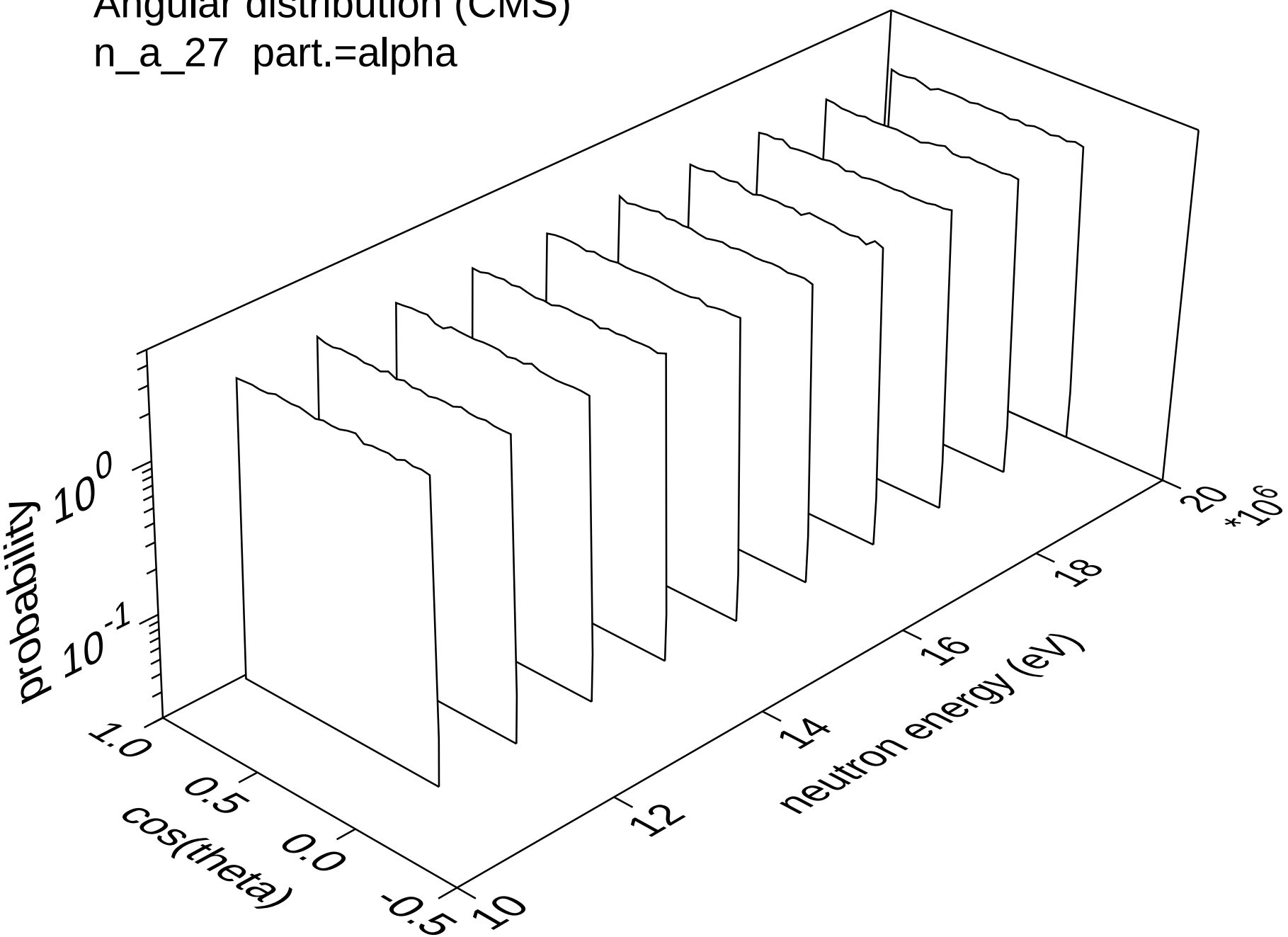

Angular distribution (CMS)
n_a_24 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
neutron energy (eV)
*10^6

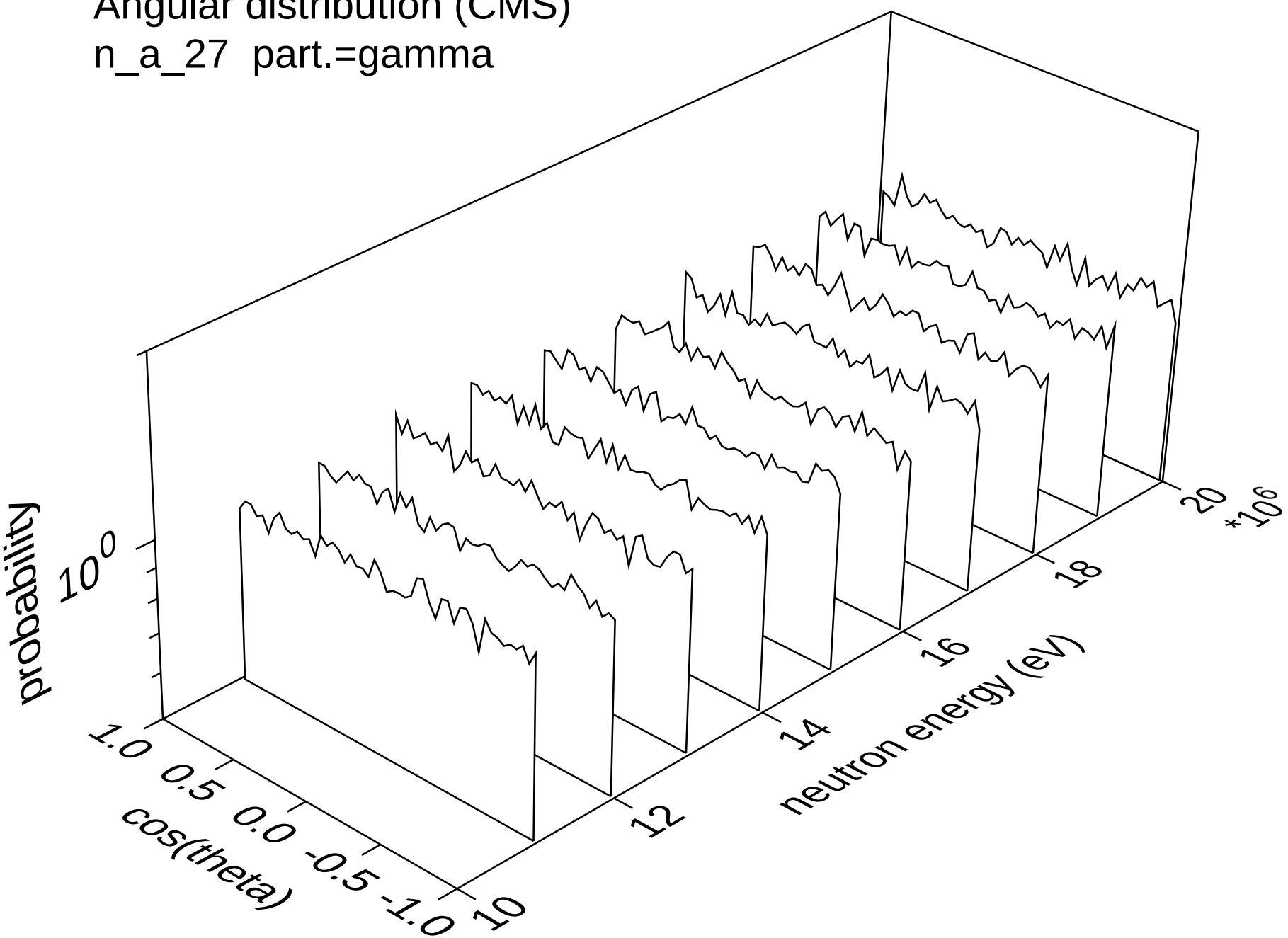

Angular distribution (CMS)
n_a_25 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
10
15
20
neutron energy (eV)
*10^6

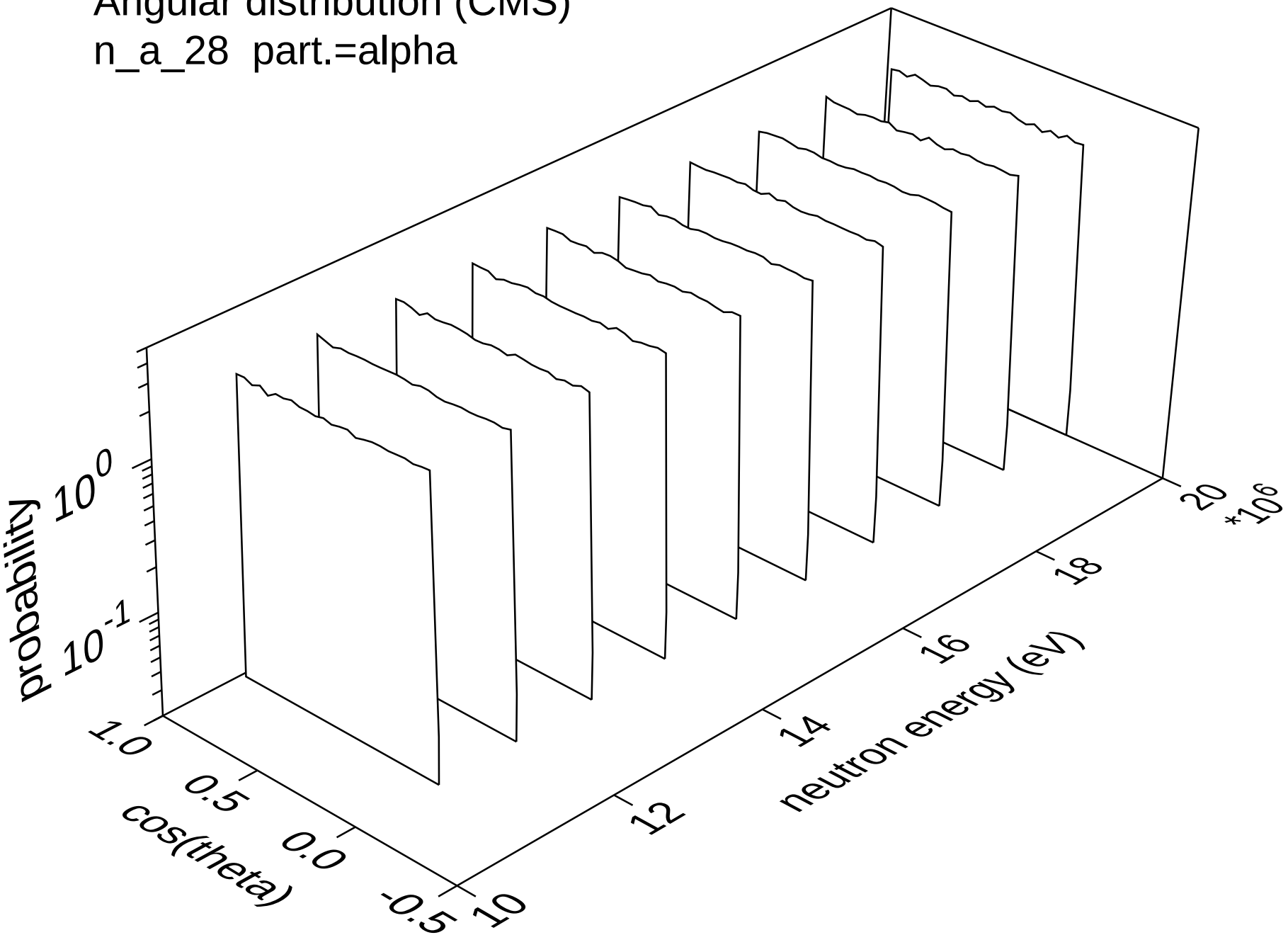

Angular distribution (CMS)
n_a_25 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
*10^6
neutron energy (eV)

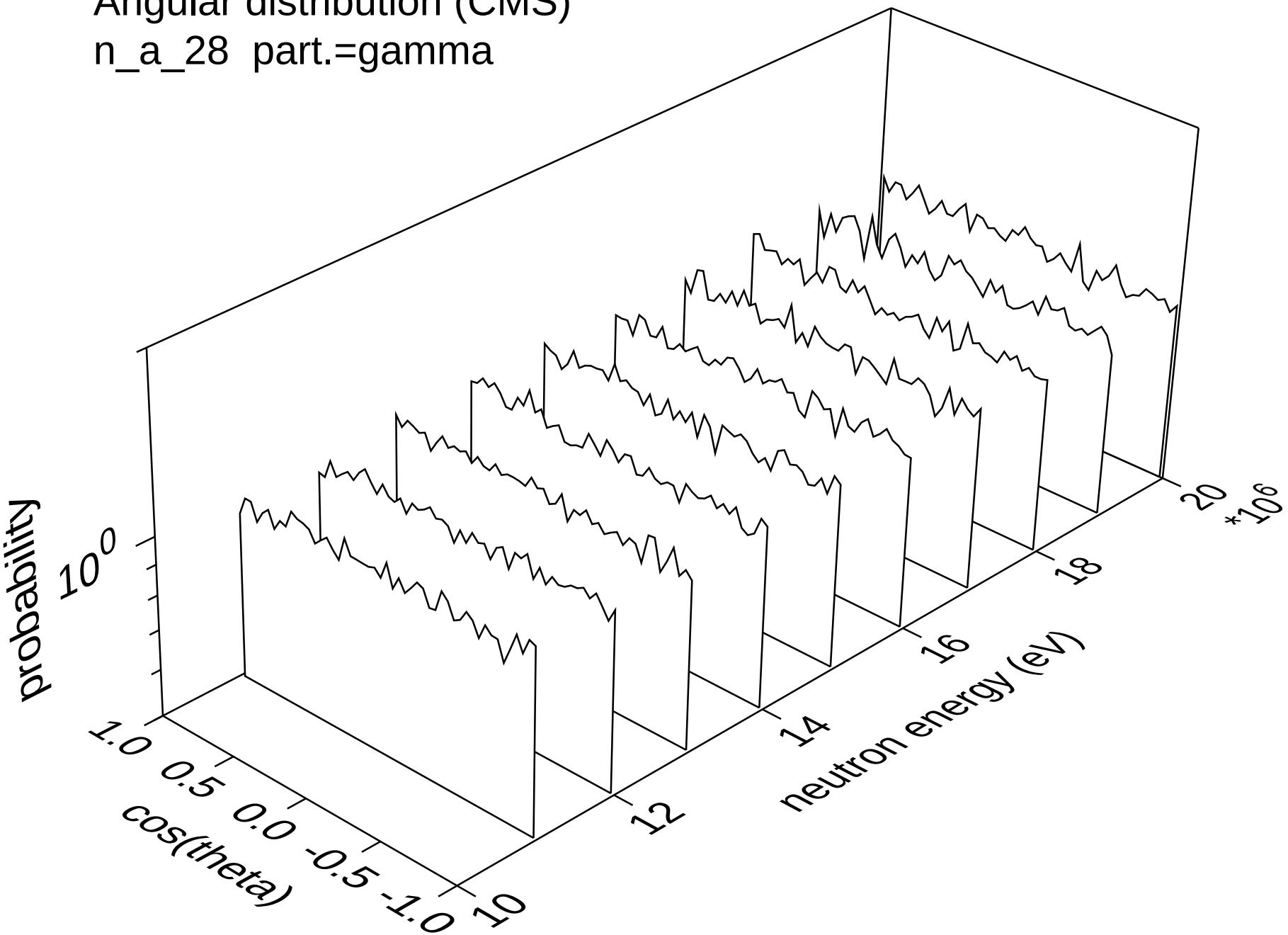

Angular distribution (CMS)
n_a_26 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

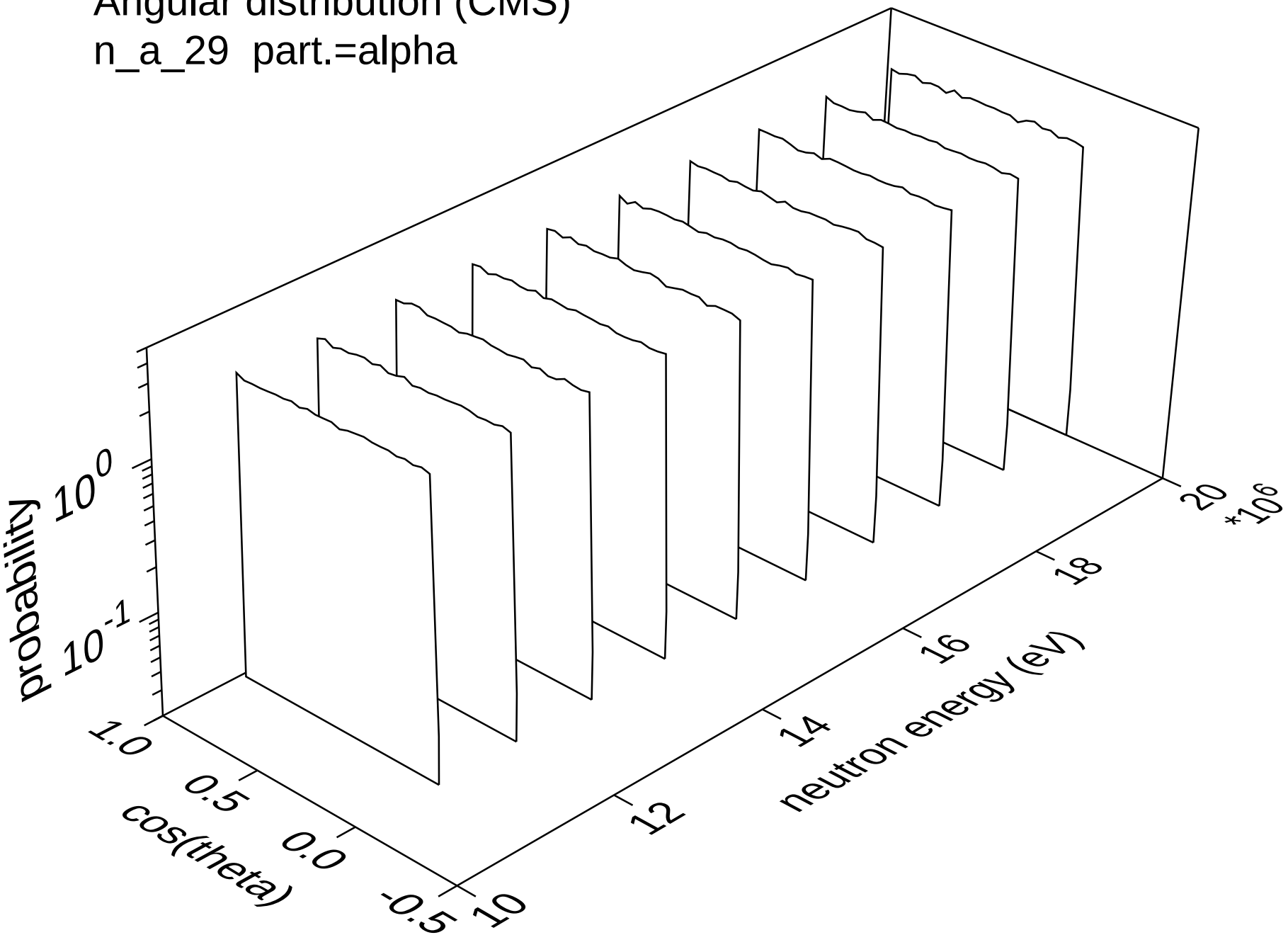

Angular distribution (CMS)
n_a_26 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

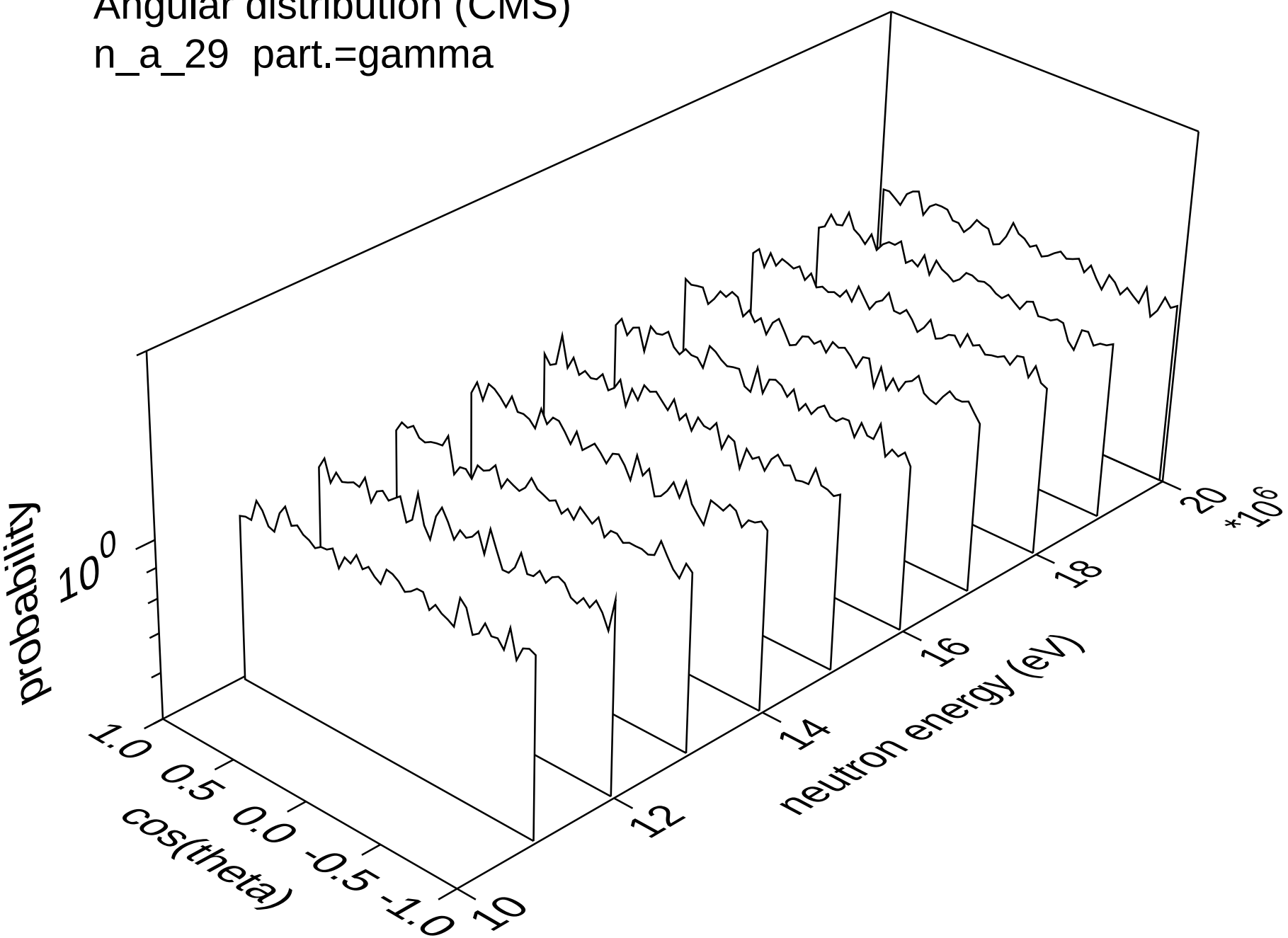

Angular distribution (CMS)
n_a_27 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

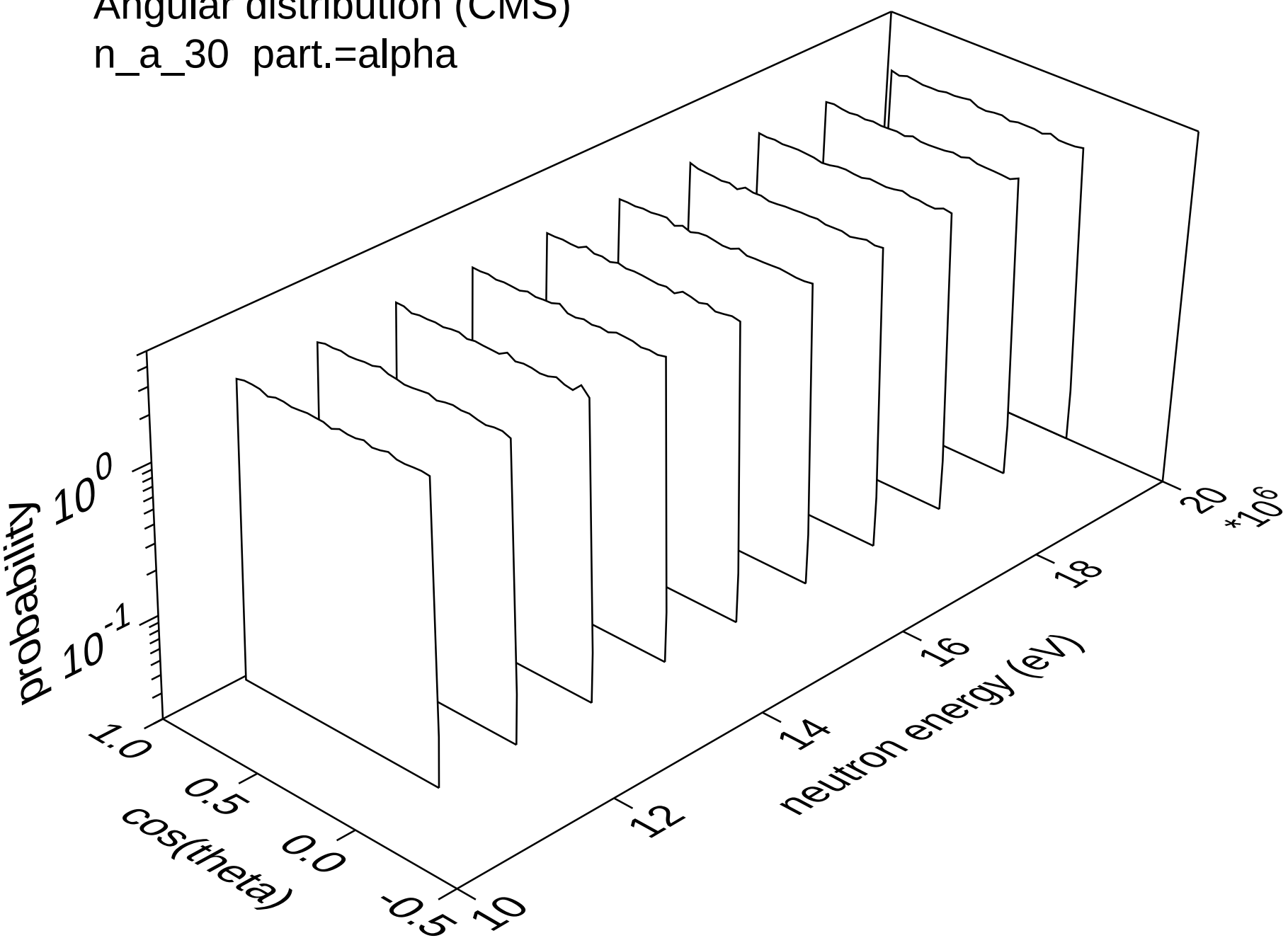

Angular distribution (CMS)
n_a_27 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

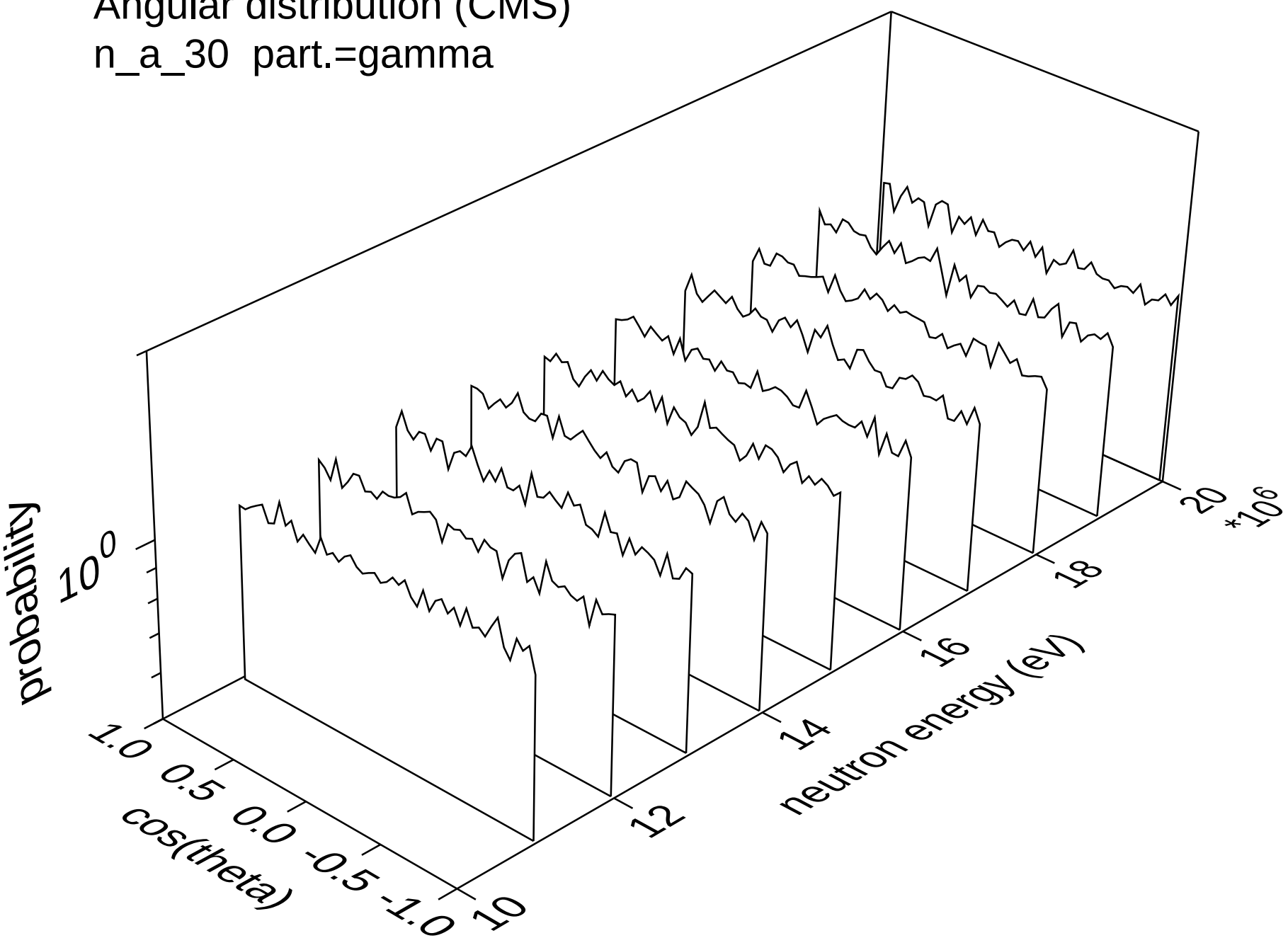

Angular distribution (CMS)
n_a_28 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

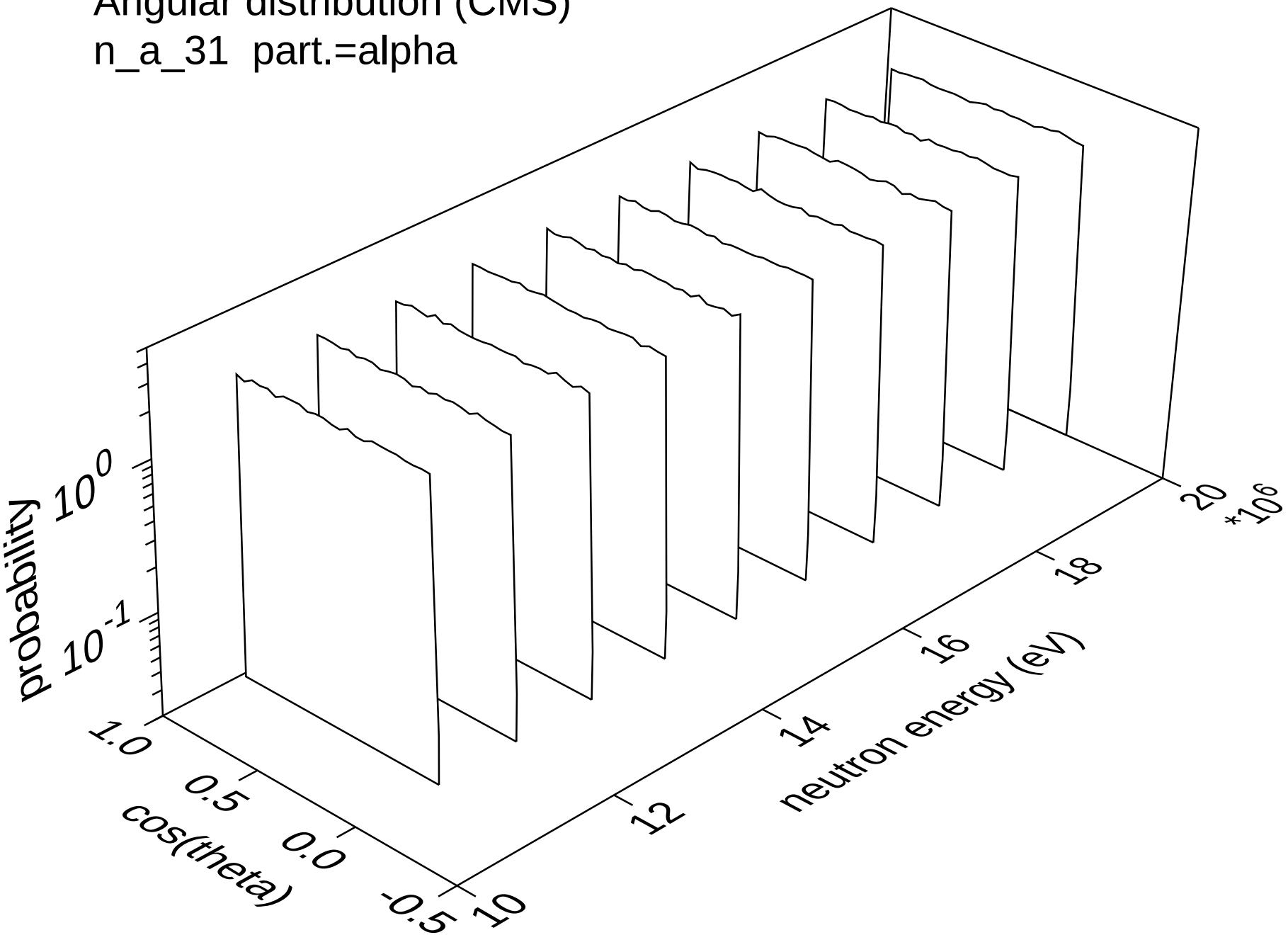

Angular distribution (CMS)
n_a_28 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

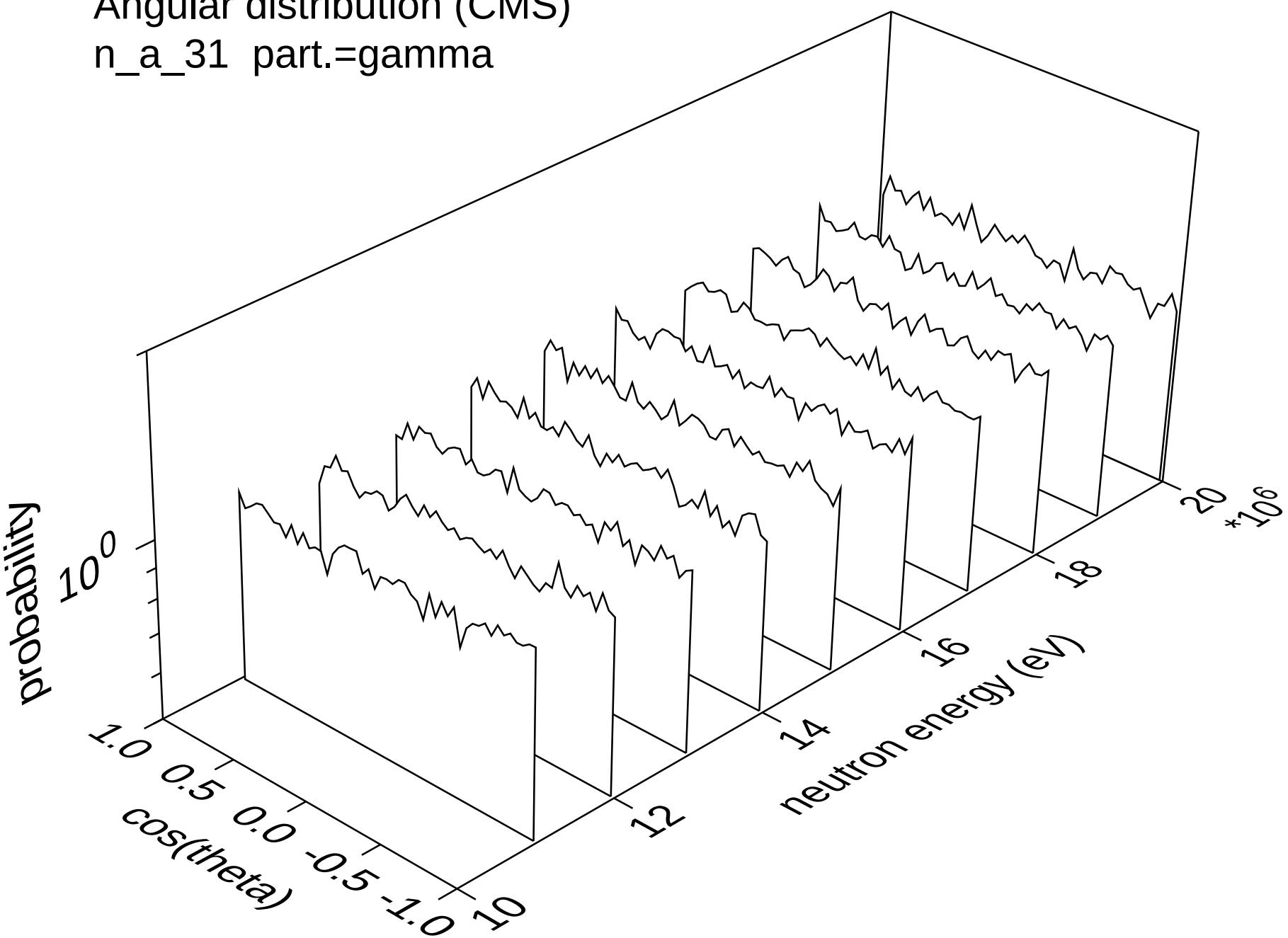

Angular distribution (CMS)
n_a_29 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

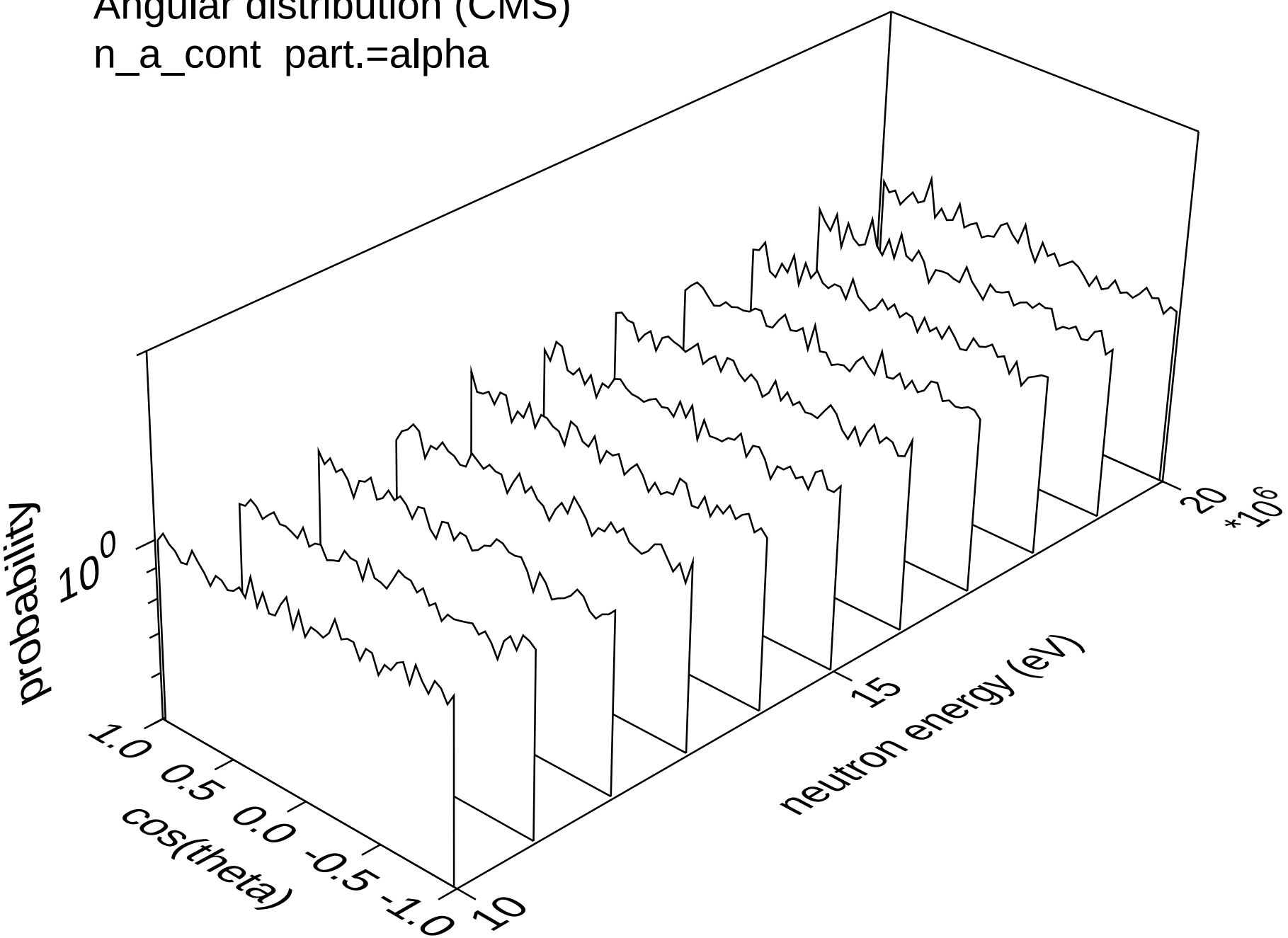

Angular distribution (CMS)
n_a_29 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

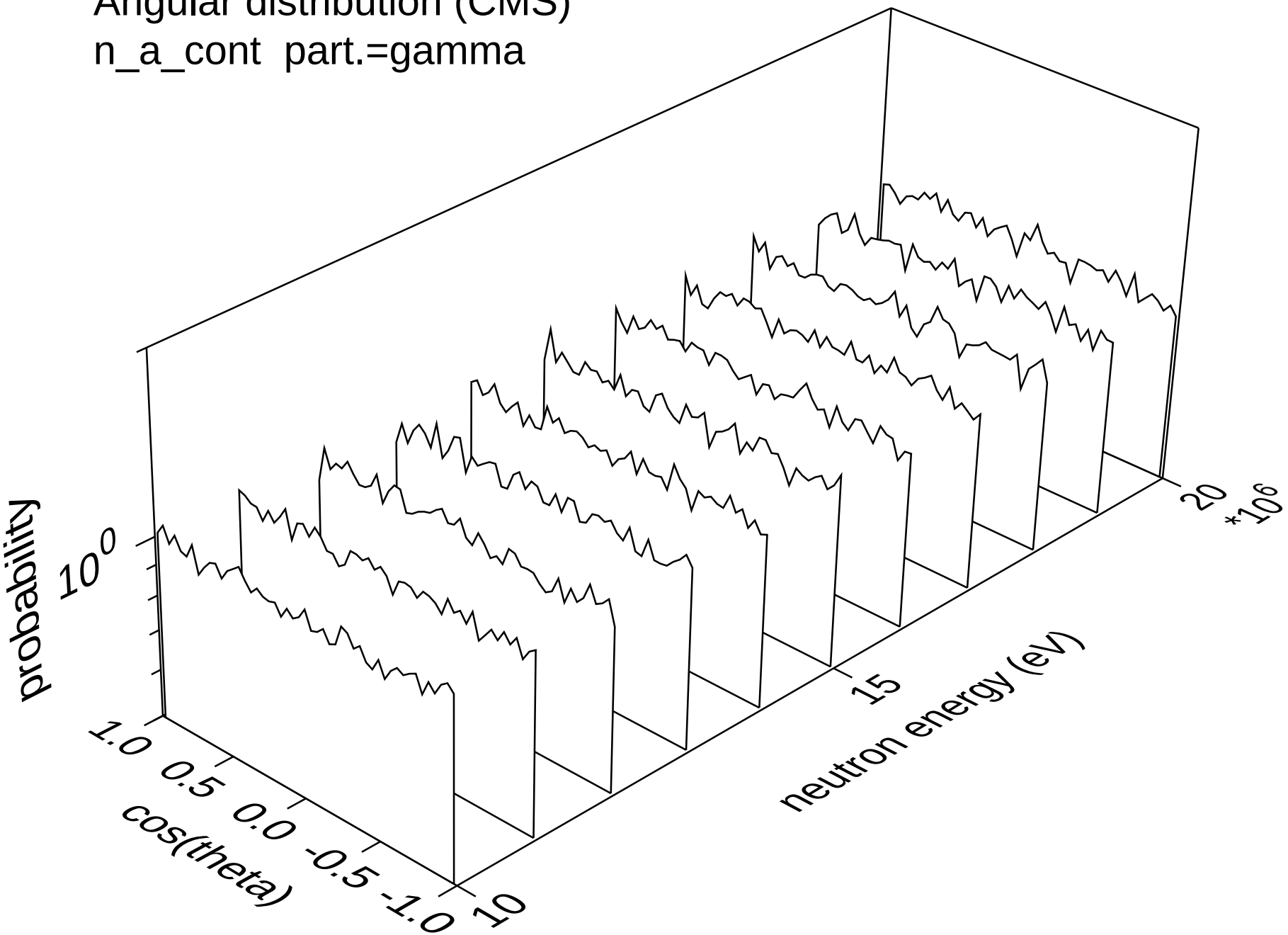

Angular distribution (CMS)
n_a_30 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

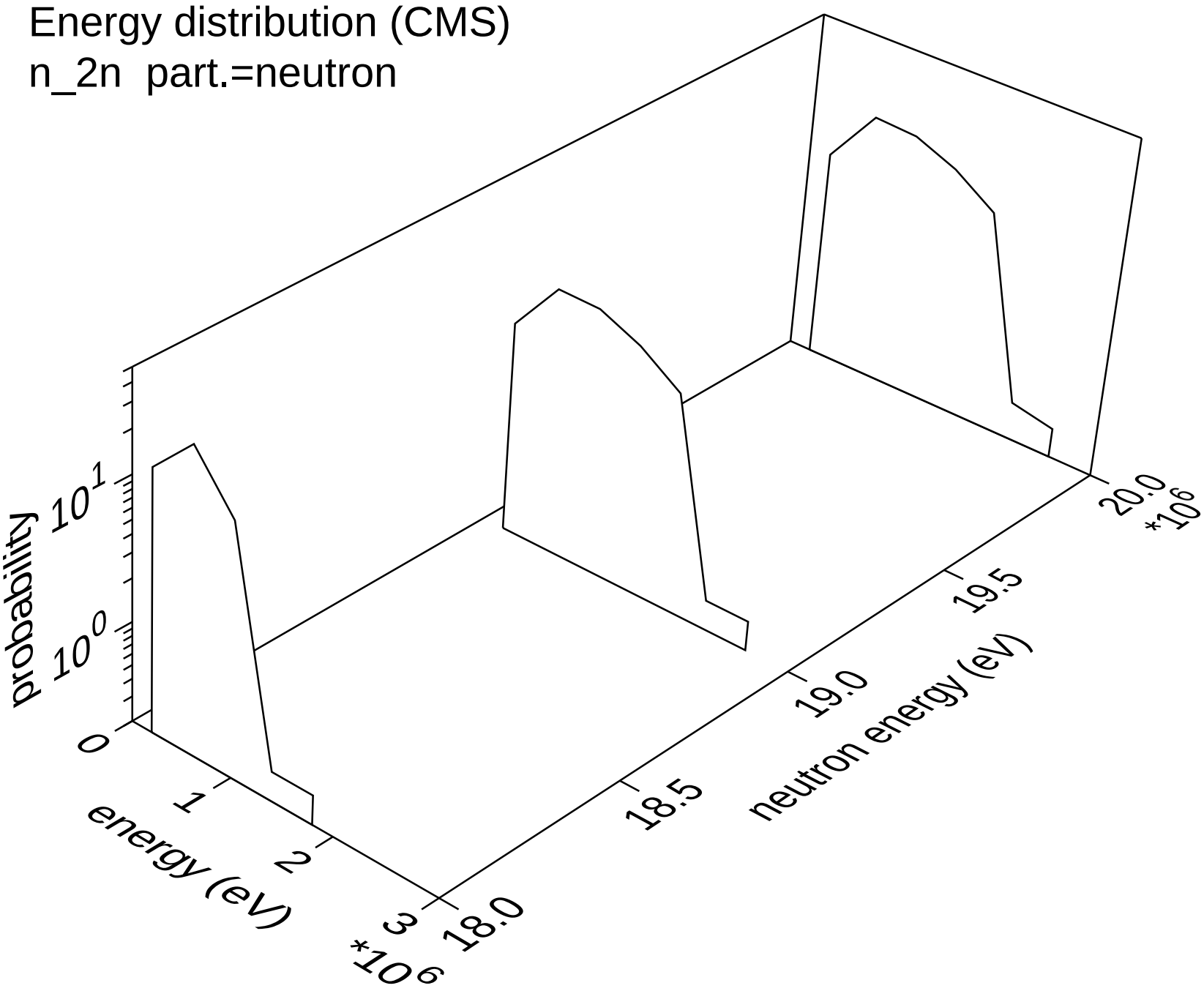

Angular distribution (CMS)
n_a_30 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

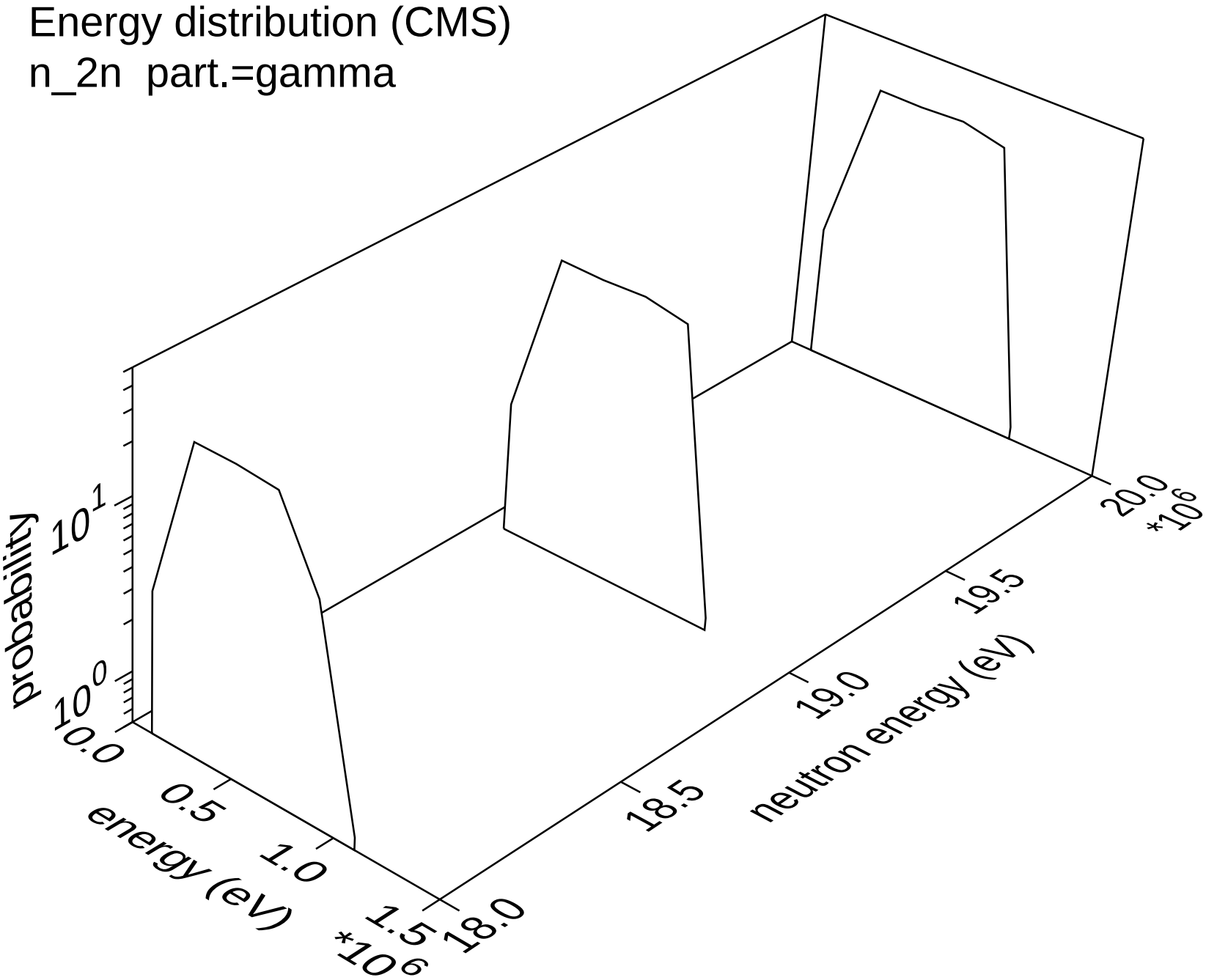

Angular distribution (CMS)
n_a_31 part.=alpha
probability
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

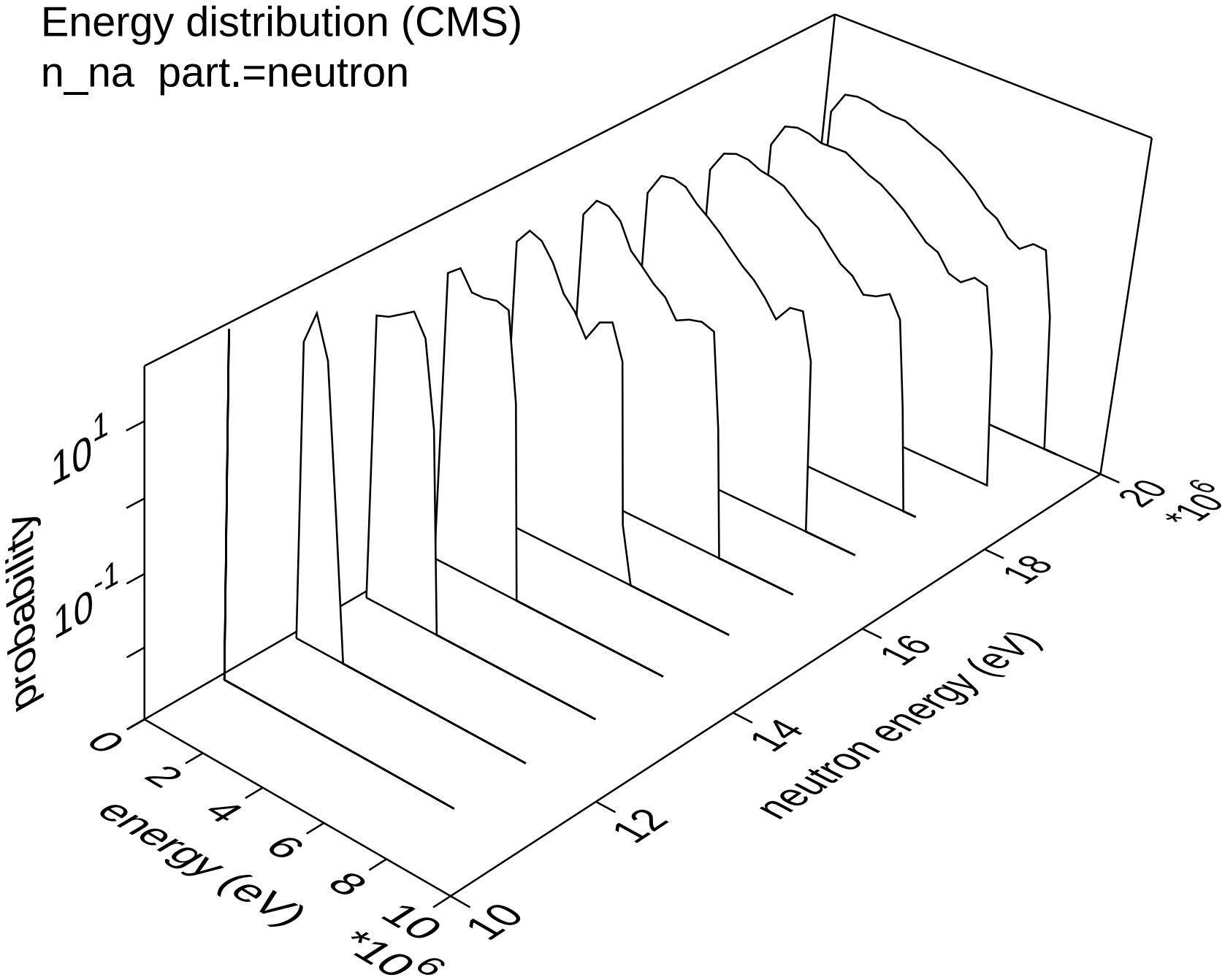

Angular distribution (CMS)
n_a_31 part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
12
14
16
18
20
*10^6
neutron energy (eV)

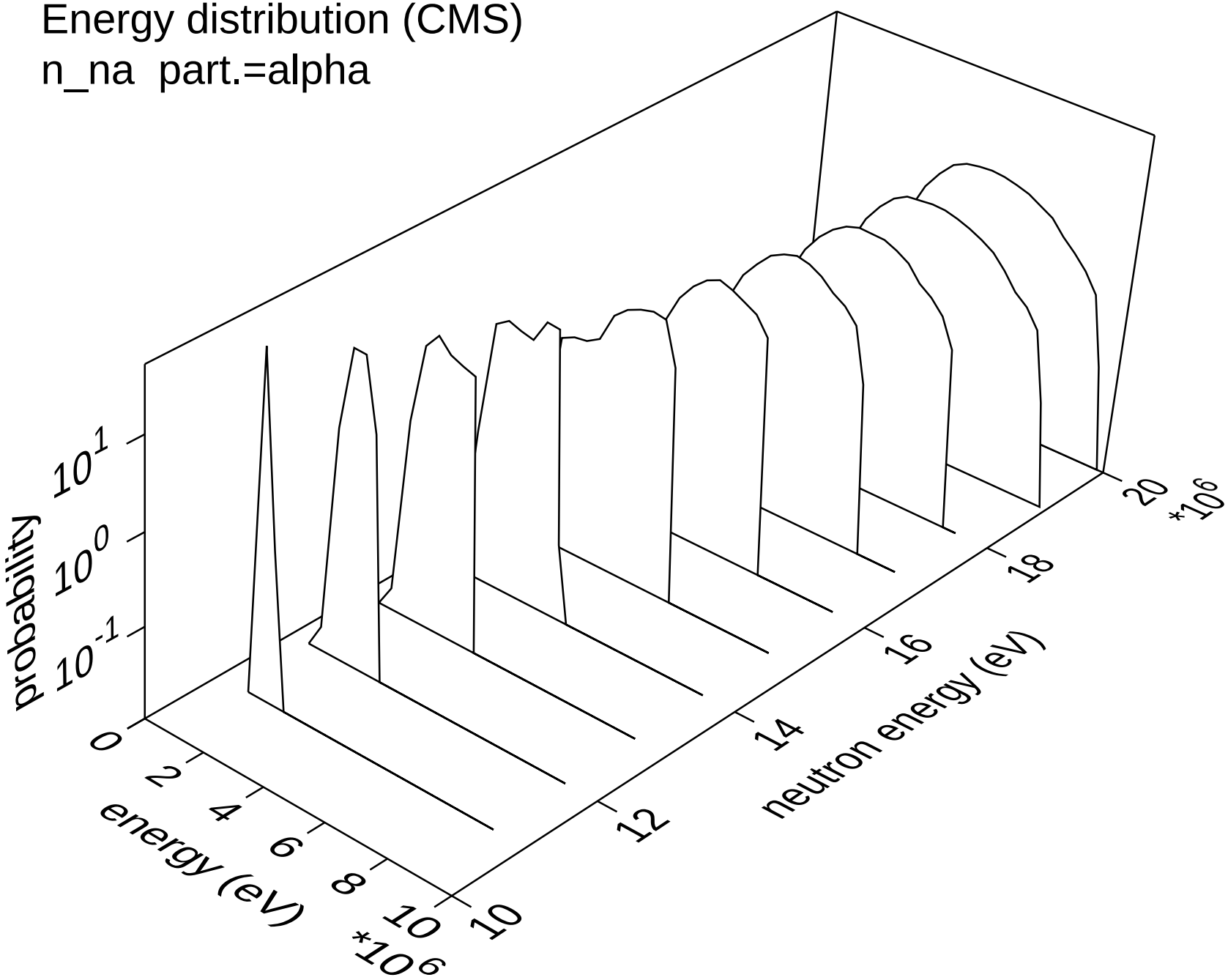

Angular distribution (CMS)
n_a_cont part.=alpha
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
*10^6
neutron energy (eV)

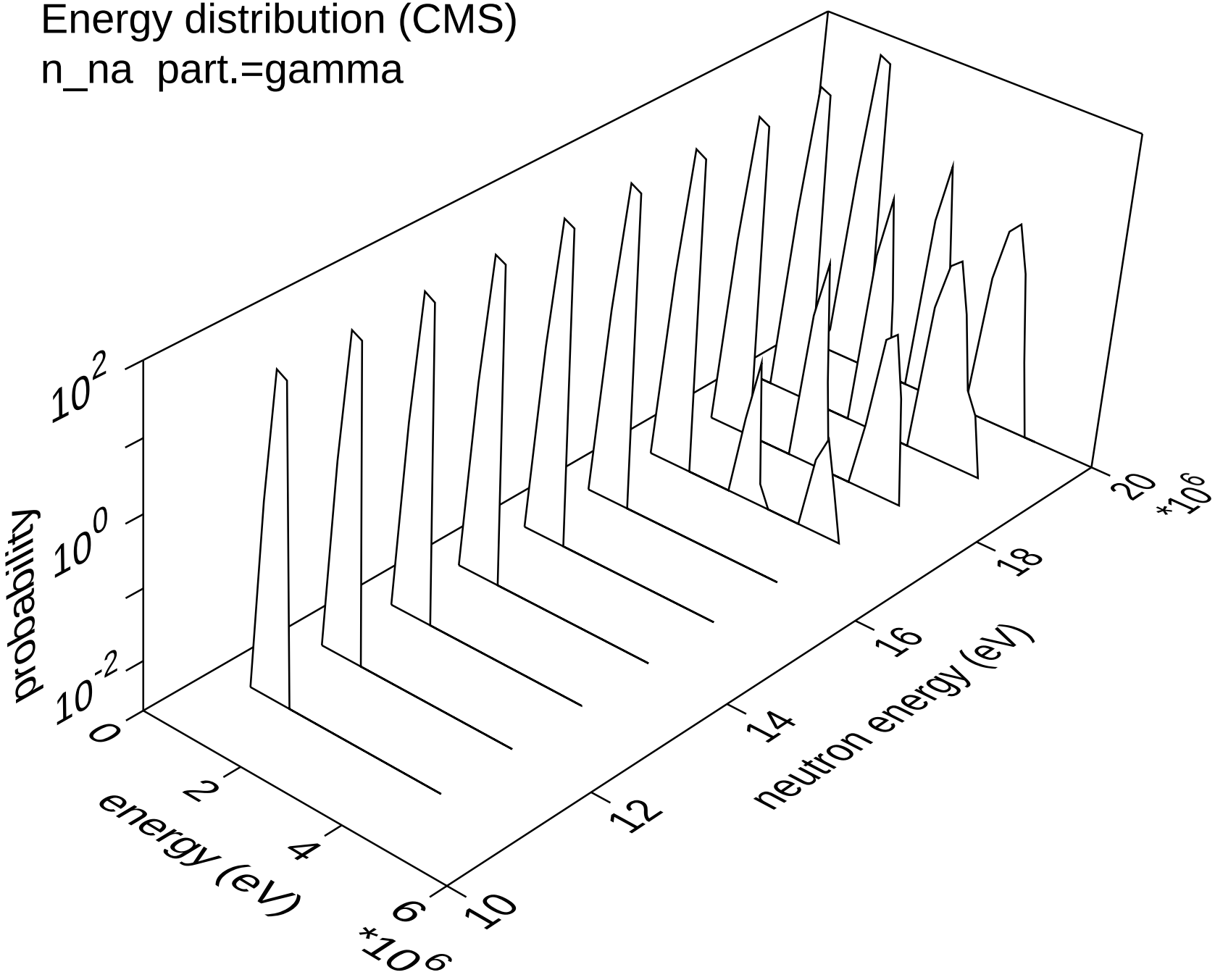

Angular distribution (CMS)
n_a_cont part.=gamma
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
10
15
20
*10^6
neutron energy (eV)

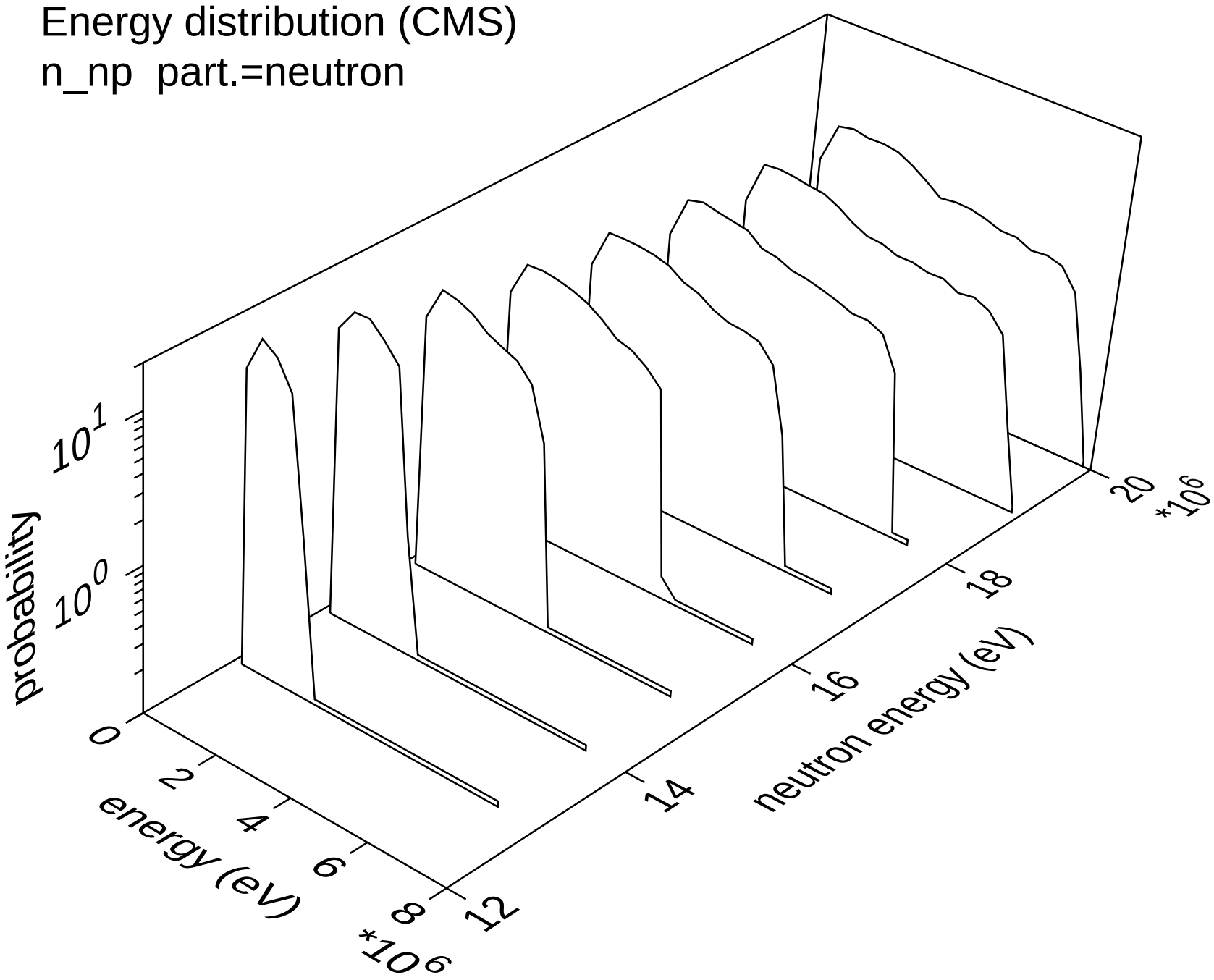

Energy distribution (CMS)
n_2n part.=neutron
probability
10^1
10^0
0
1
2
3
*10 6
energy (eV)
18.0
18.5
19.0
19.5
20.0
*10 6
neutron energy (eV)

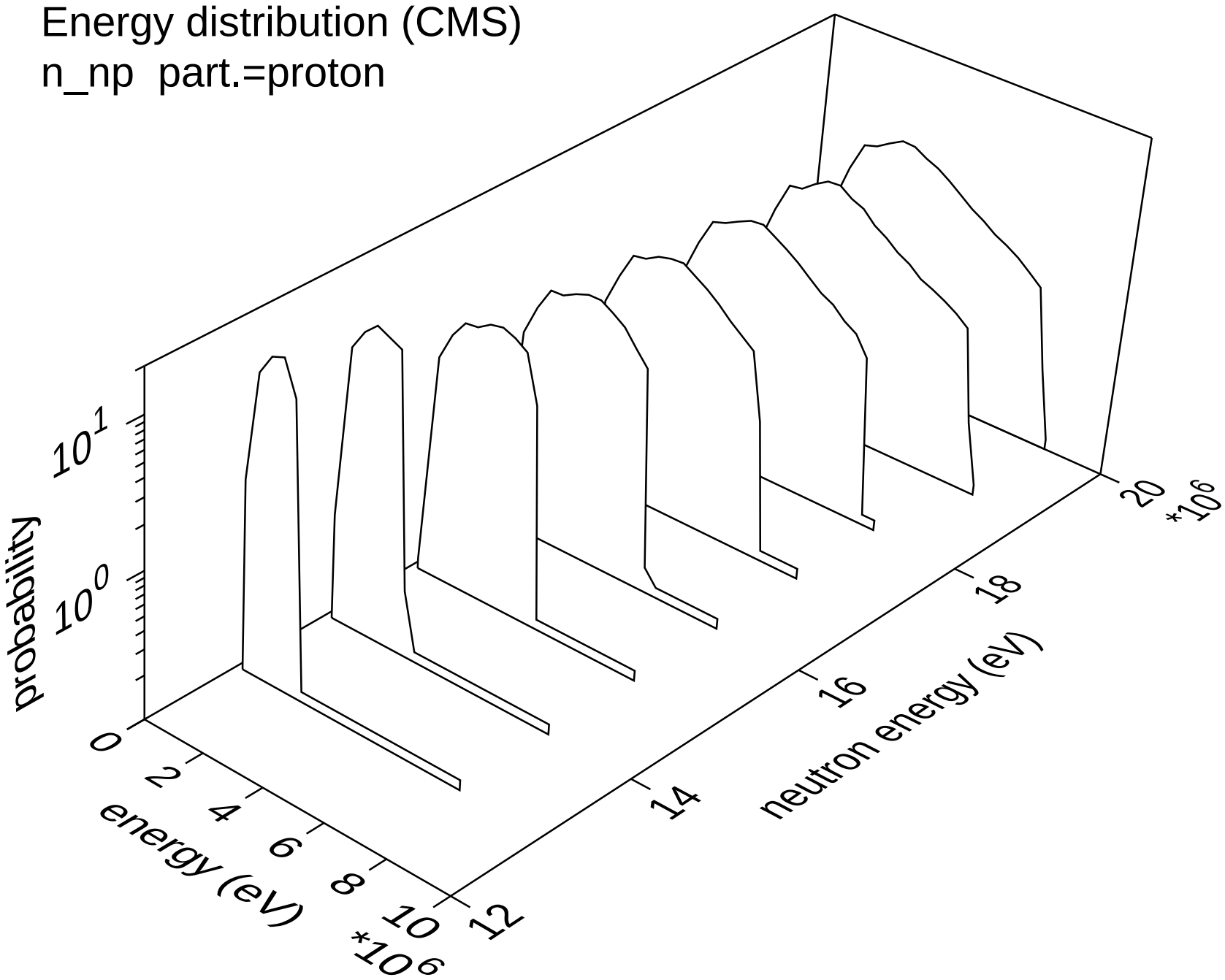

Energy distribution (CMS)
n_2n part.=gamma
probability
10^1
10^0
10.0
0.5
1.0
1.5
*10^6
energy (eV)
18.0
18.5
19.0
19.5
20.0
*10^6
neutron energy (eV)

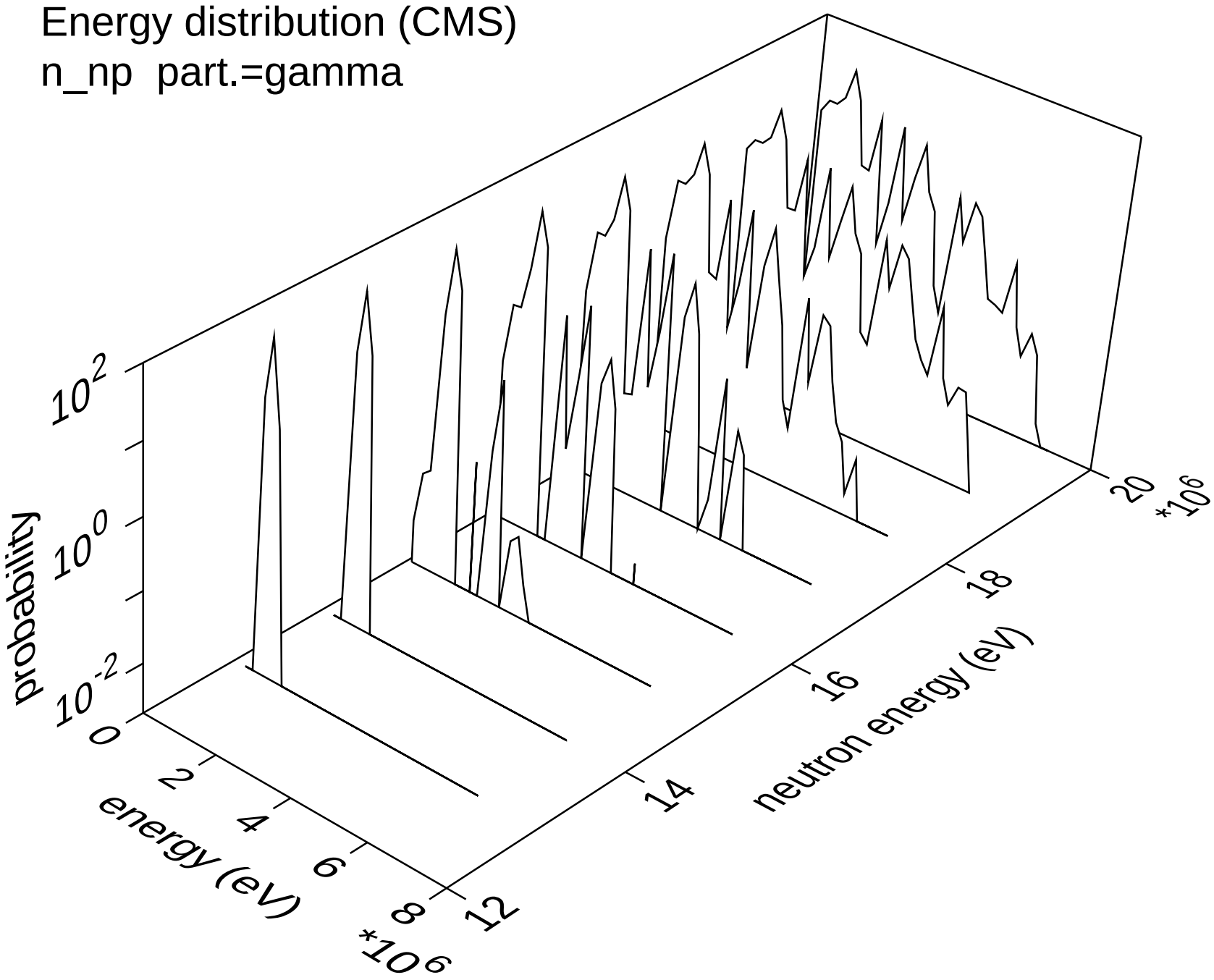

Energy distribution (CMS)
n_na part.=neutron
probability
10^{1}
10^{-1}
0
2
4
6
8
10
energy (eV)
*10^6
10
12
14
16
18
20
neutron energy (eV)
*10^6

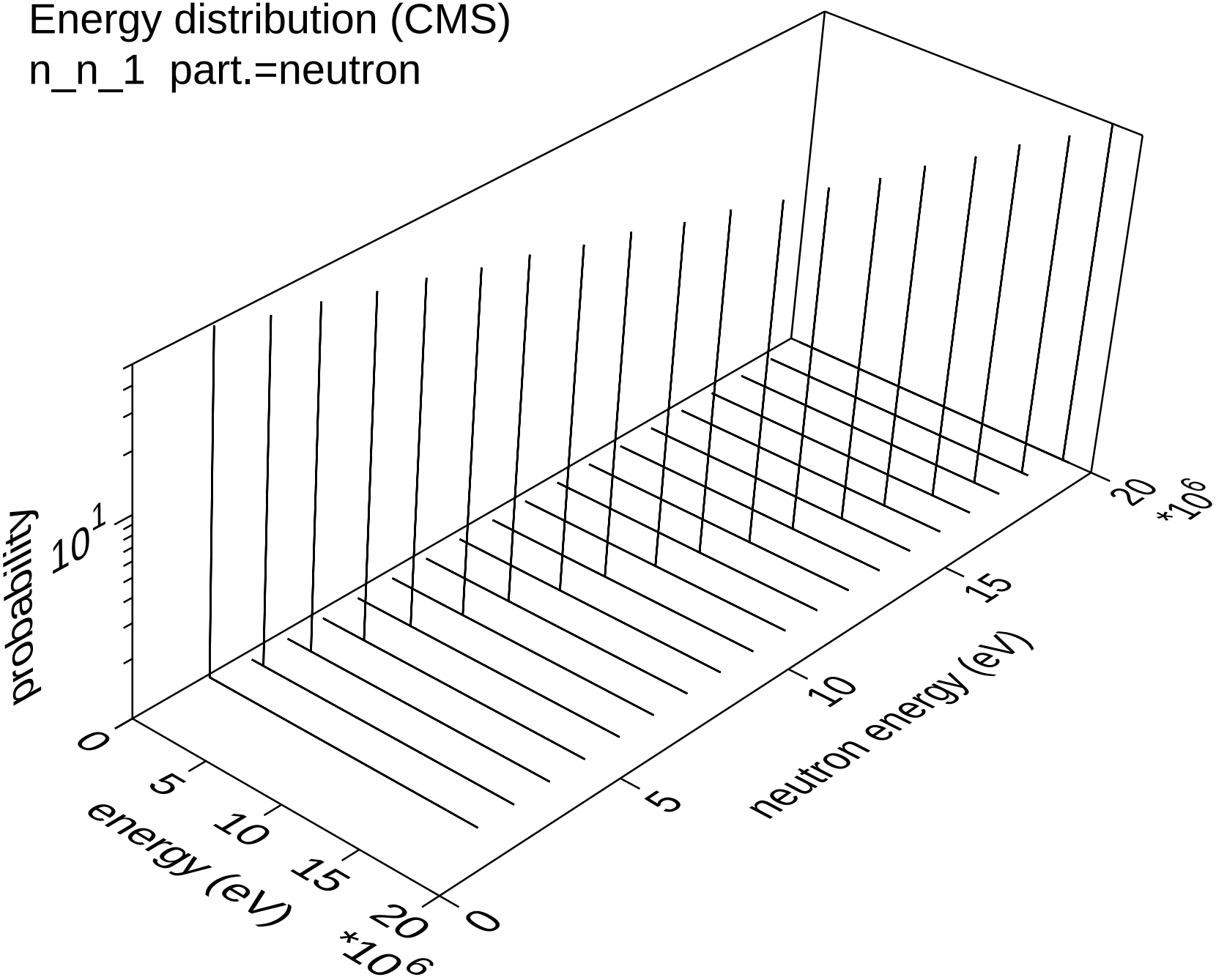

Energy distribution (CMS)
n_na part.=alpha
probability
10^{1}
10^{0}
10^{-1}
0
2
4
6
8
10
*10^6
energy (eV)
10
12
14
16
18
20
*10^6
neutron energy (eV)

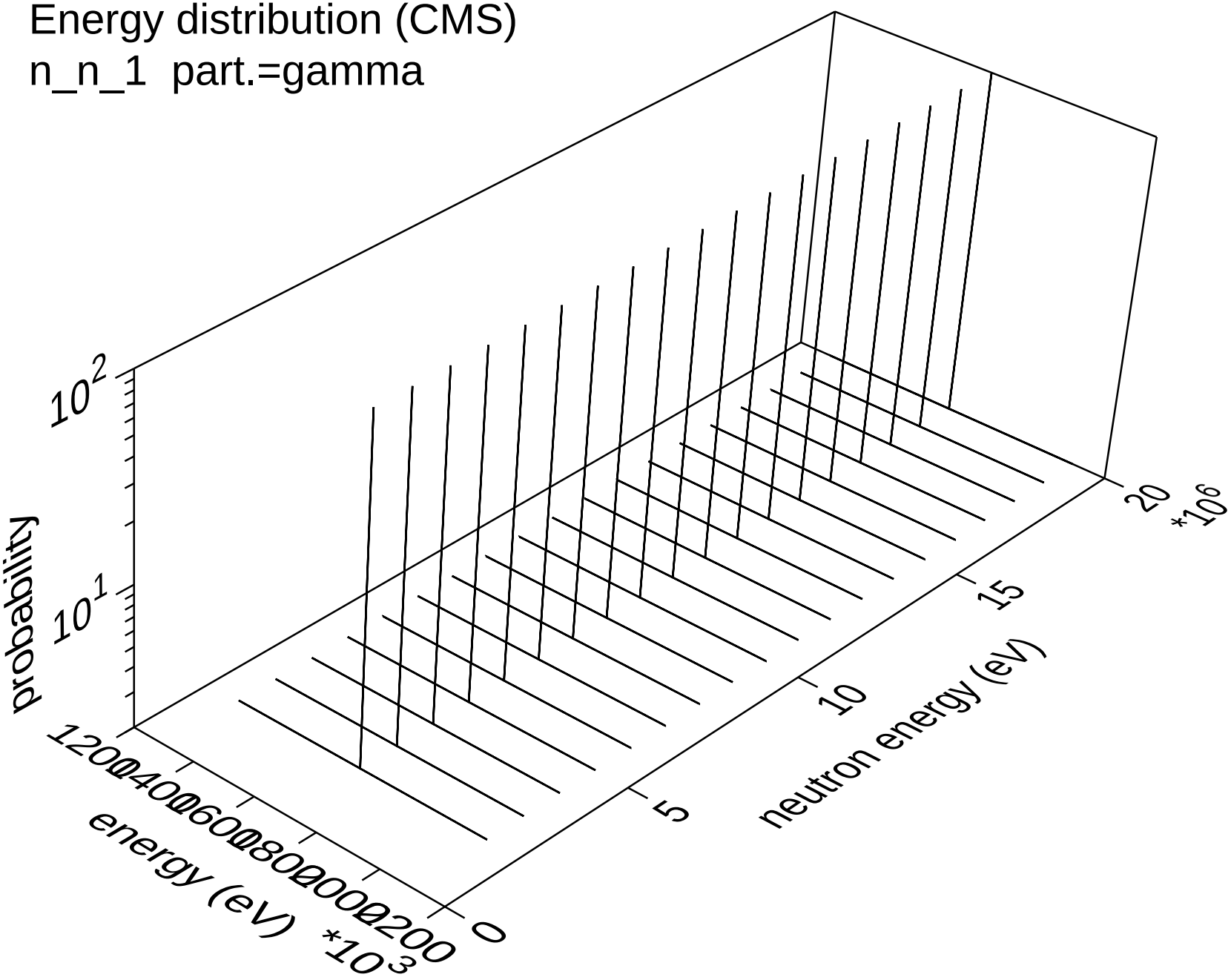

Energy distribution (CMS)
n_na part.=gamma
probability
10^{2}
10^{0}
10^{-2}
0
2
4
6
*10^6
energy (eV)
10
12
14
16
18
20
*10^6
neutron energy (eV)

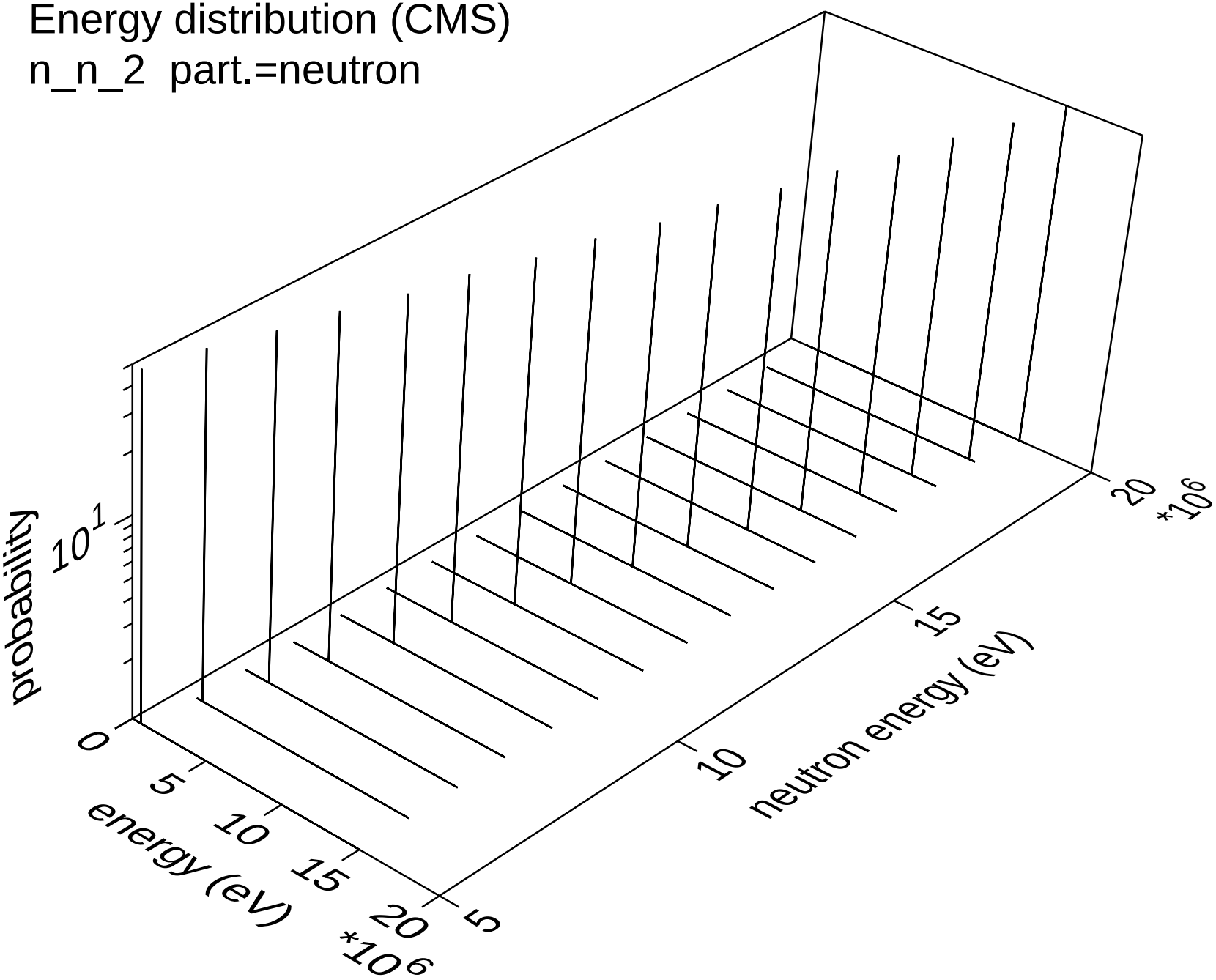

Energy distribution (CMS)
n_np part.=neutron
probability
10^1
10^0
0
2
4
6
8
*10 6
energy (eV)
12
14
16
18
20
*10^6
neutron energy (eV)

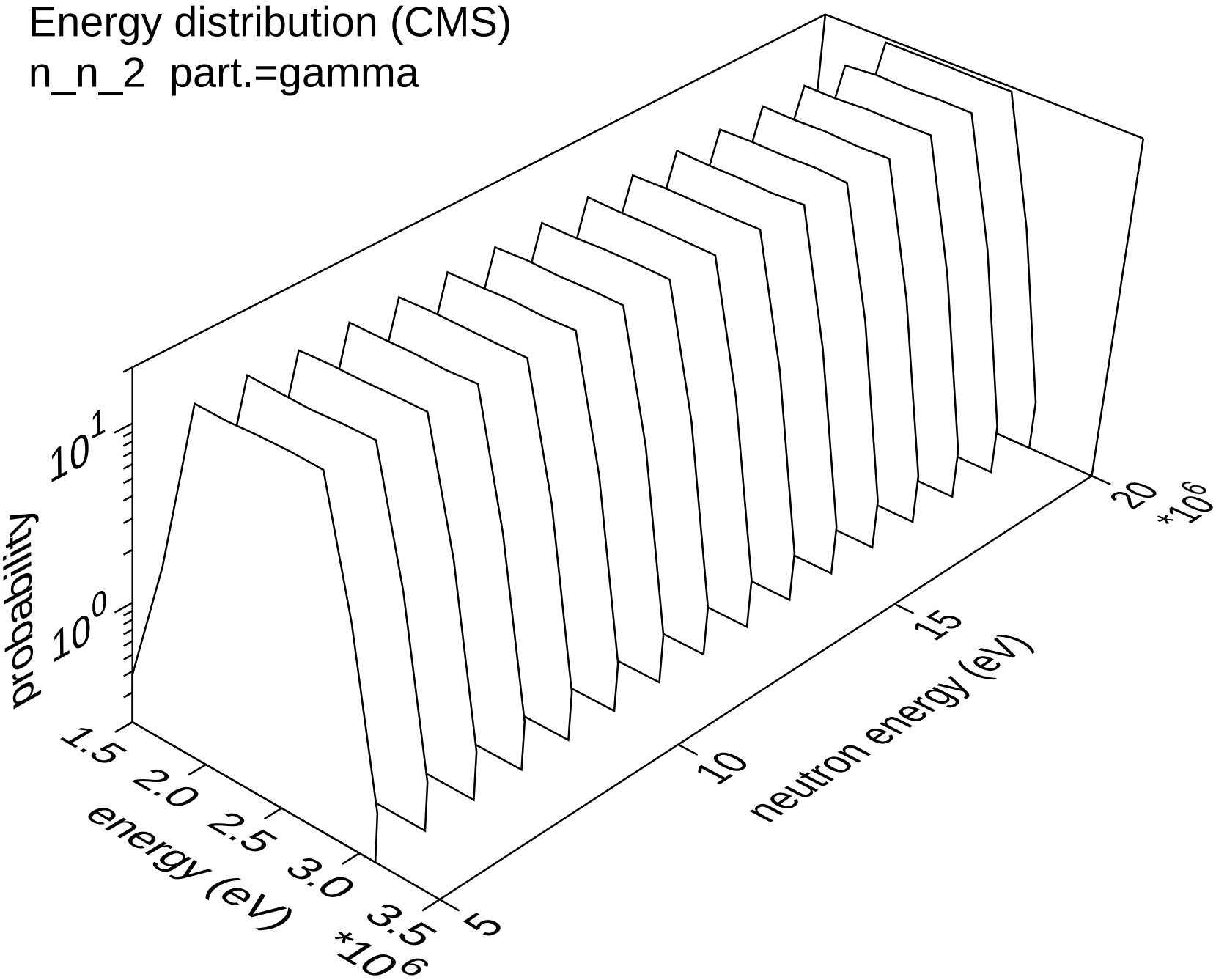

Energy distribution (CMS)
n_np part.=proton
probability
10^1
10^0
0
2
4
6
8
10
12
energy (eV)
*10^6
14
16
18
20
neutron energy (eV)
*10^6

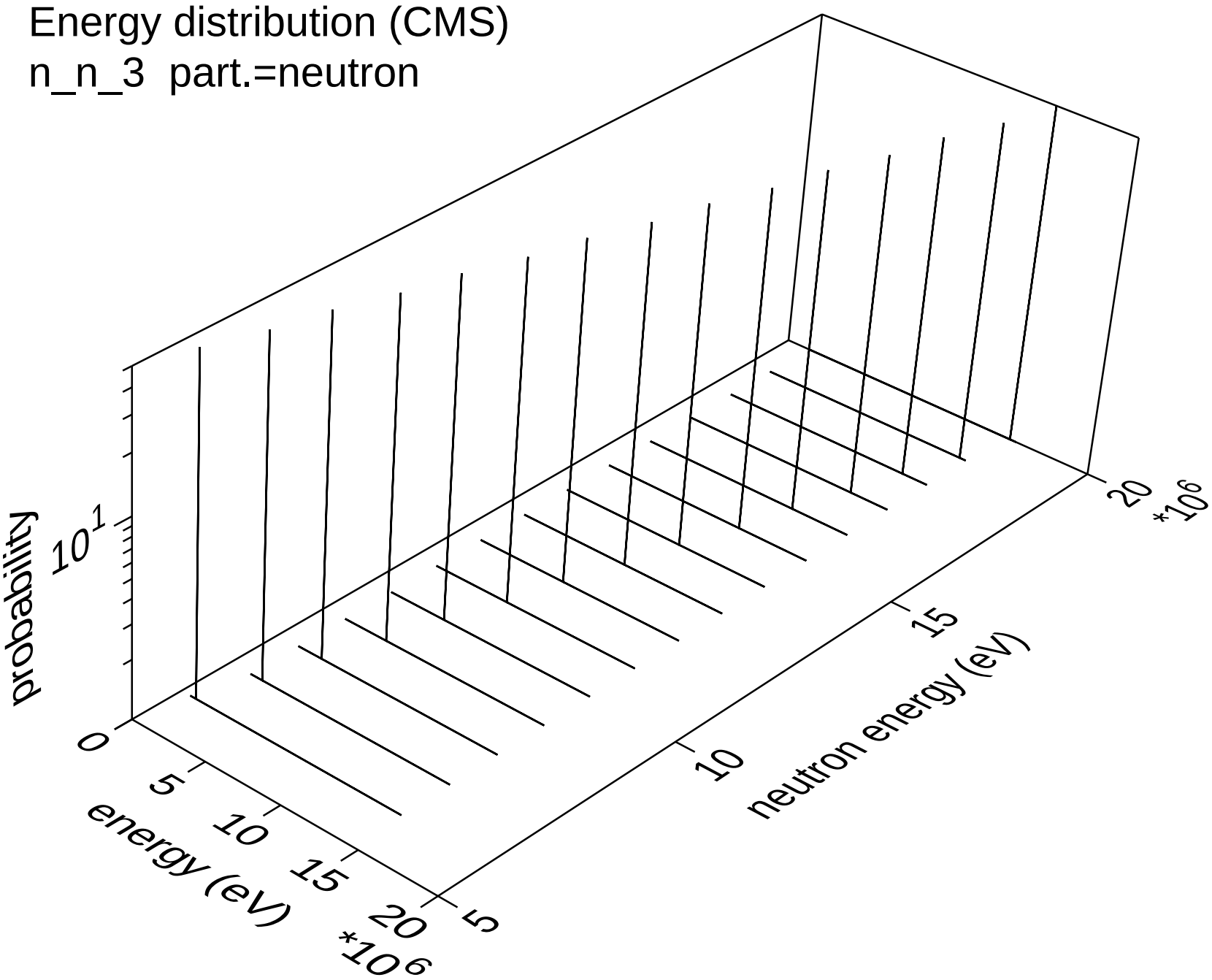

Energy distribution (CMS)
n_np part.=gamma
probability
10^{2}
10^{0}
10^{-2}
0
2
4
6
8
*10 6
energy (eV)
12
14
16
18
20
*10^6
neutron energy (eV)

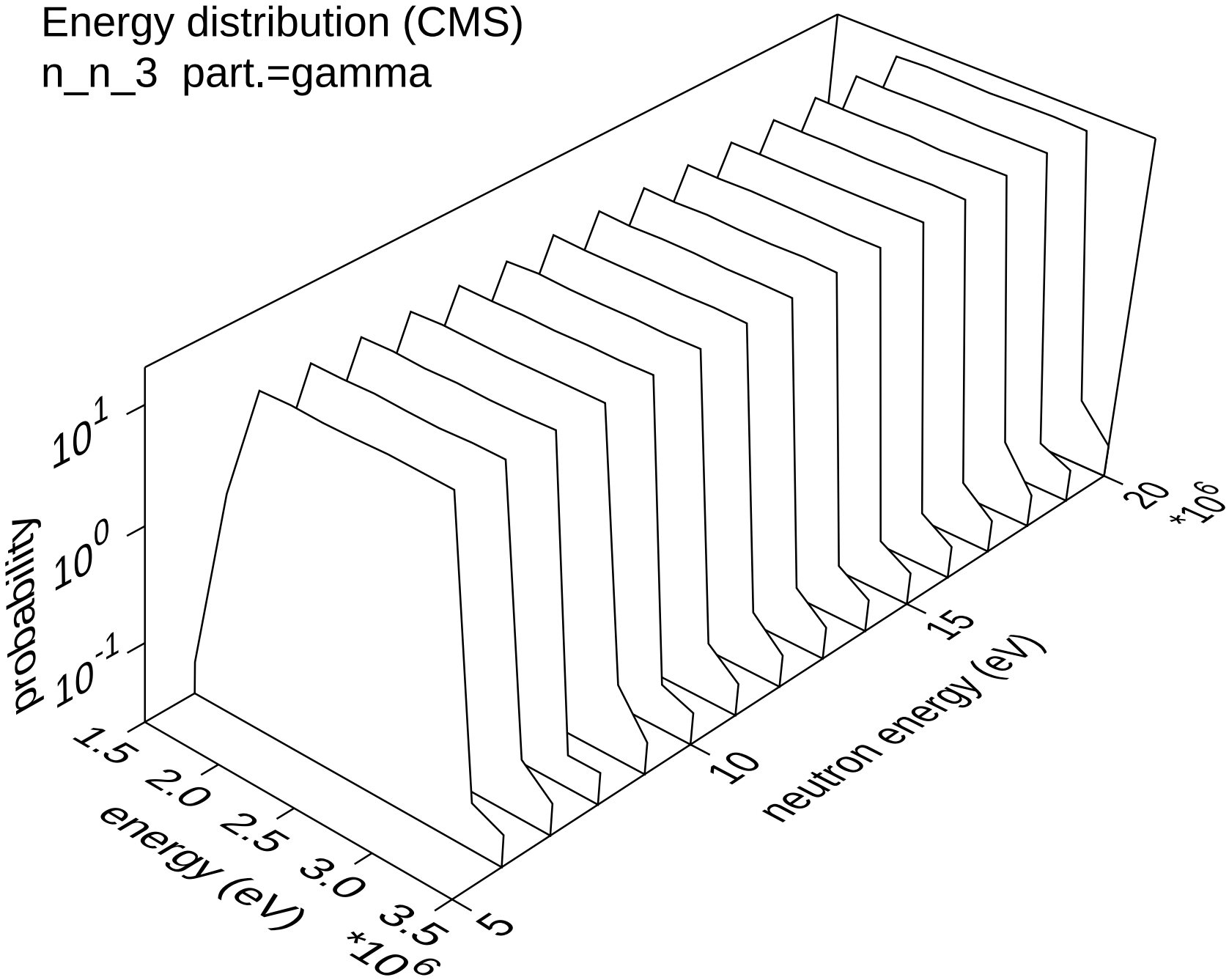

Energy distribution (CMS)
n_n_1 part.=neutron
probability
10^{-1}
0
5
10
15
20
*10^6
energy (eV)
0
5
10
15
20
*10^6
neutron energy (eV)

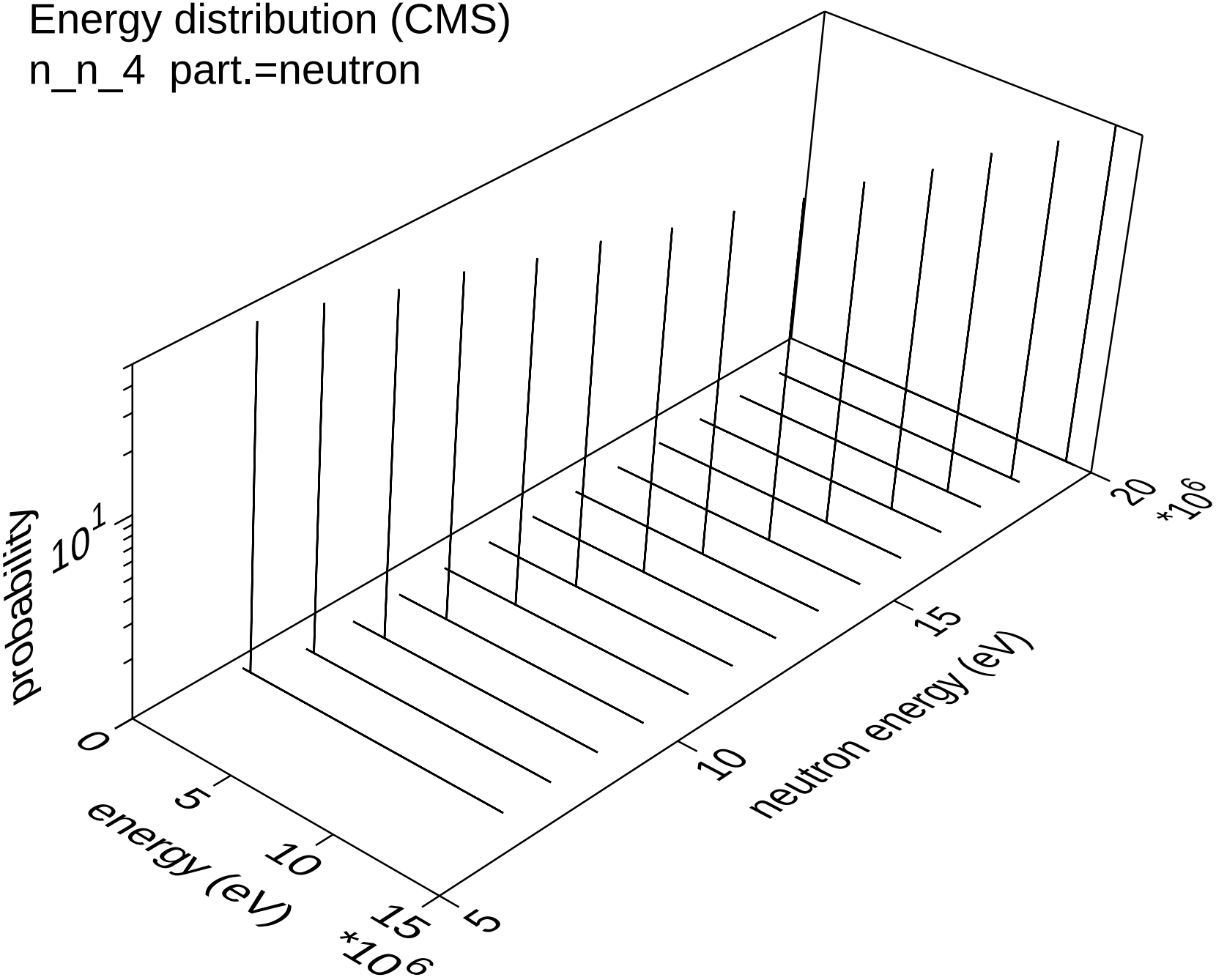

Energy distribution (CMS)
n_n_1 part.=gamma
probability
10^2
10^1
energy (eV) *10^3
0
200
400
600
800
1000
1200
neutron energy (eV)
5
10
15
20
*10^6

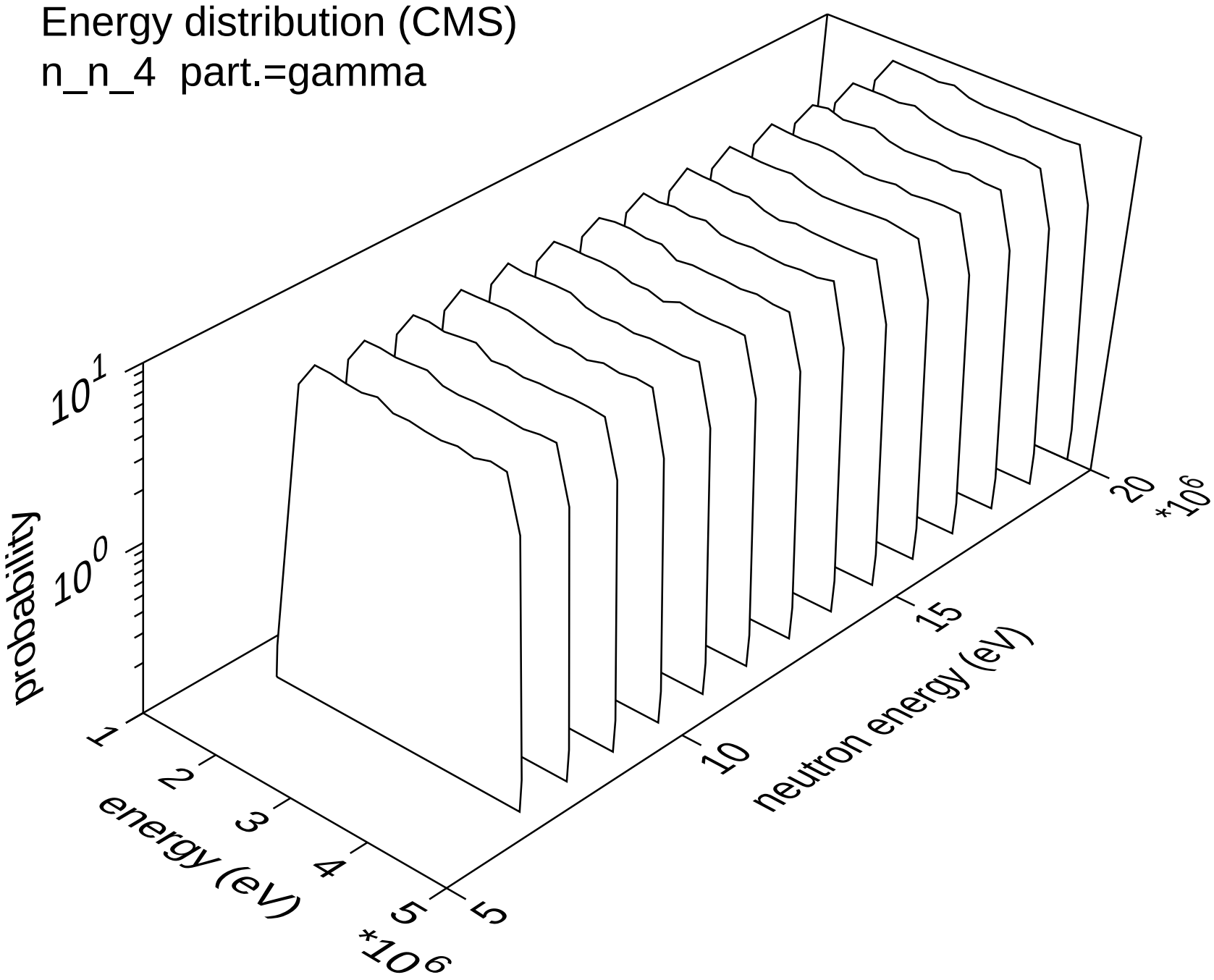

Energy distribution (CMS)
n_n_2 part.=neutron
probability
10^{1}
0
5
10
15
20
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

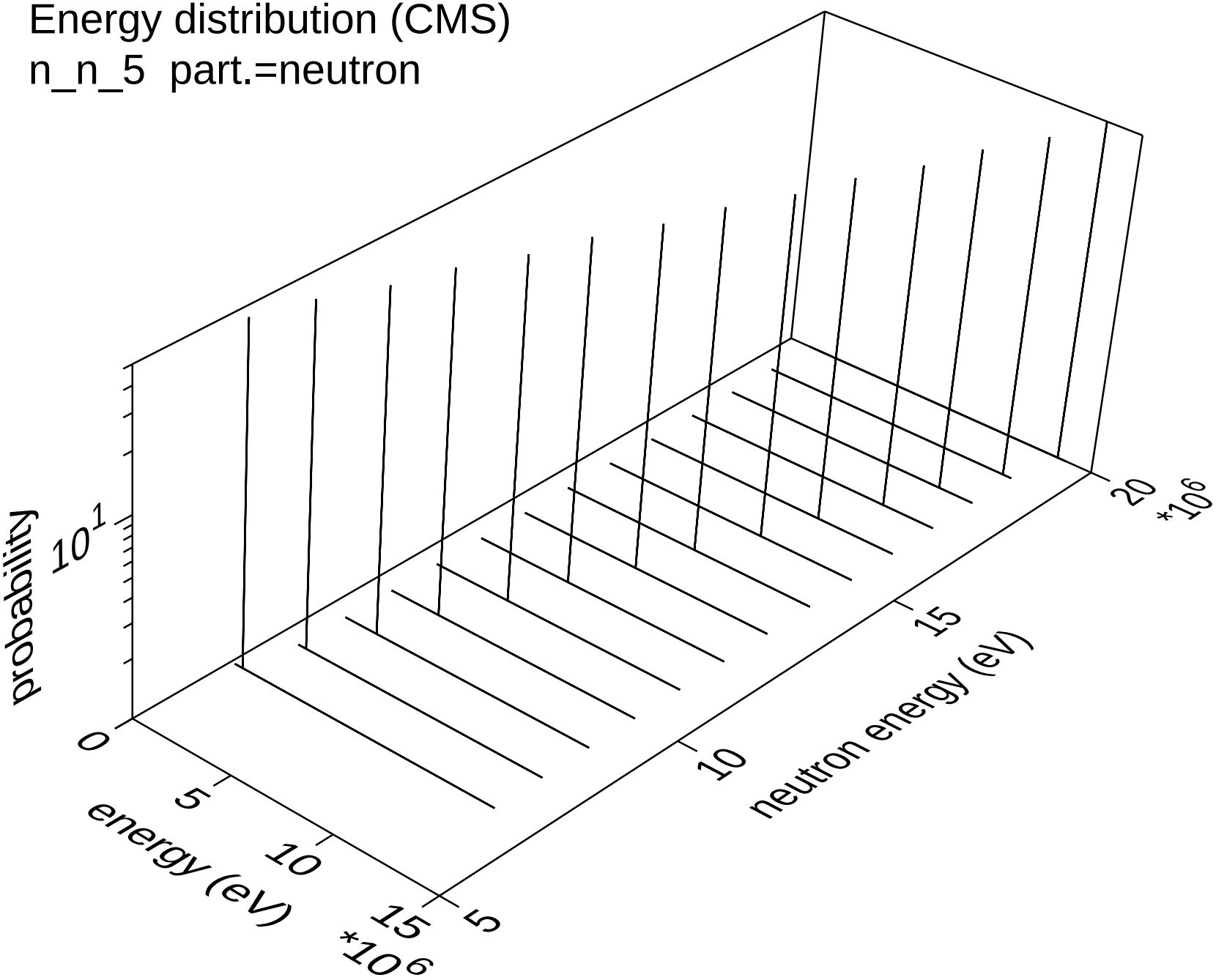

Energy distribution (CMS)
n_n_2 part.=gamma
probability
10^1
10^0
1.5
2.0
2.5
3.0
3.5
energy (eV)
*10^6
5
10
15
20
neutron energy (eV)
*10^6

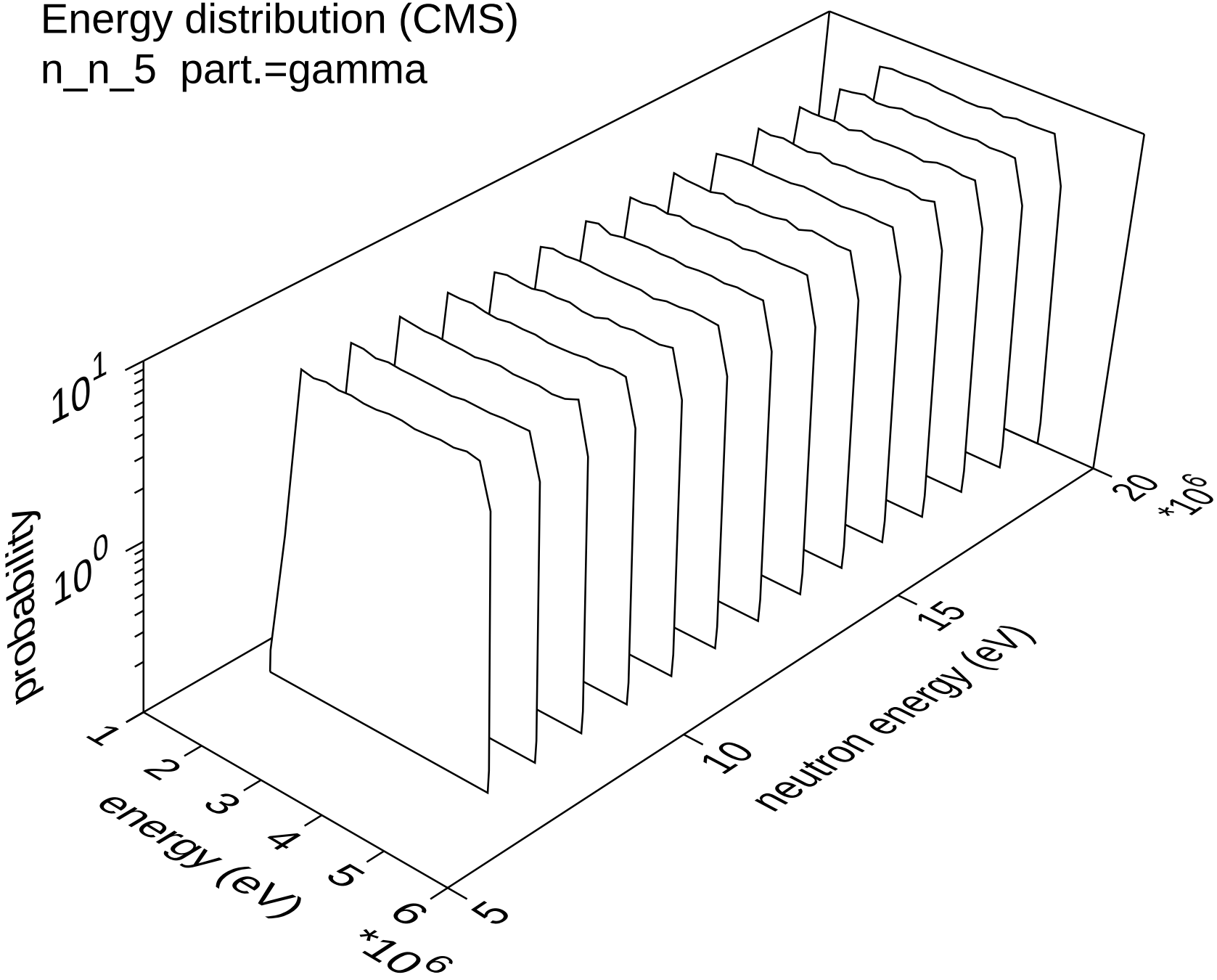

Energy distribution (CMS)
n_n_3 part.=neutron
probability
10^{1}
0
energy (eV)
5
10
15
20
*10^6
5
10
15
20
*10^6
neutron energy (eV)

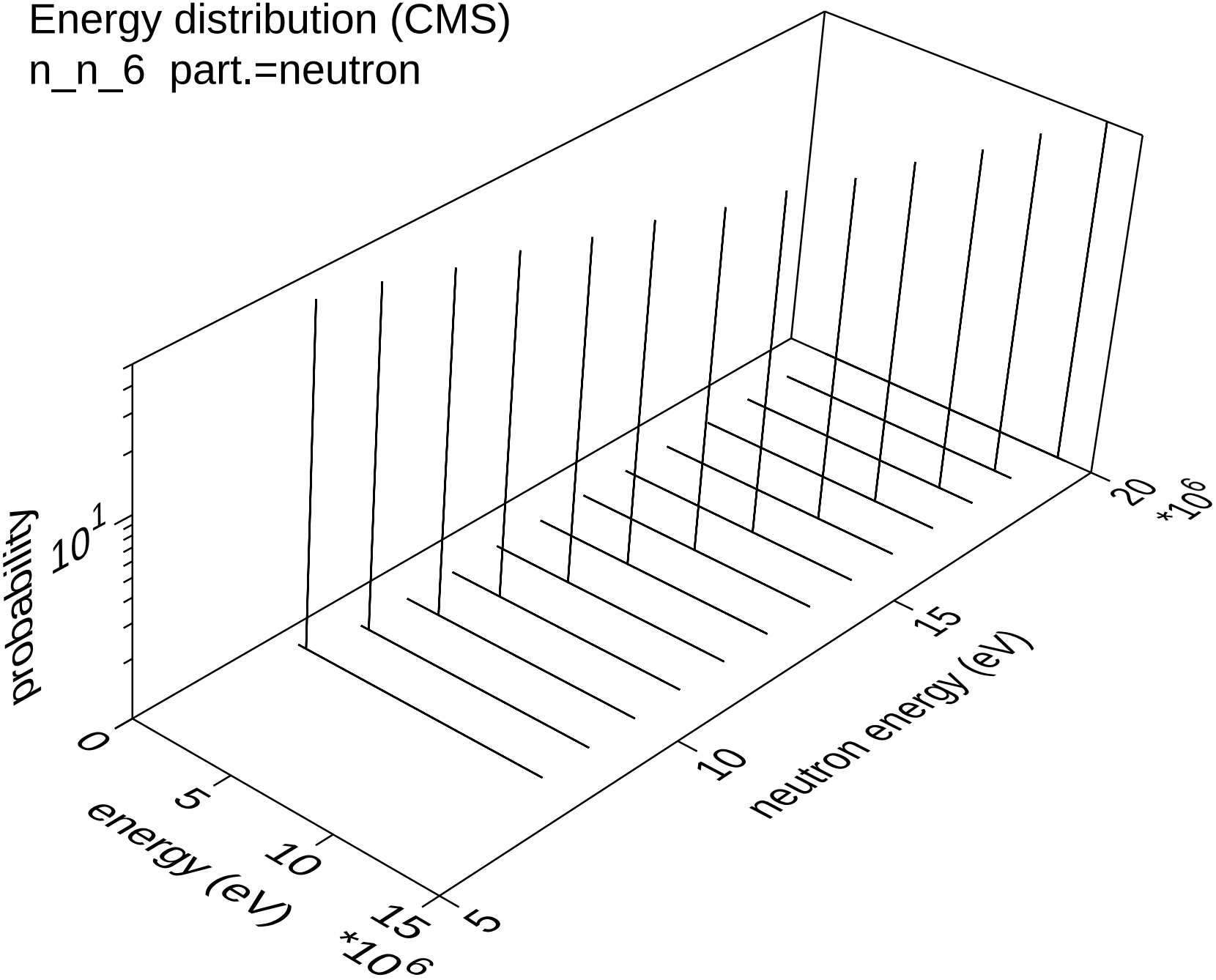

Energy distribution (CMS)
n_n_3 part.=gamma
probability
10^{1}
10^{0}
10^{-1}
1.5
2.0
2.5
3.0
3.5
energy (eV)
*10^6
5
10
15
20
neutron energy (eV)
*10^6

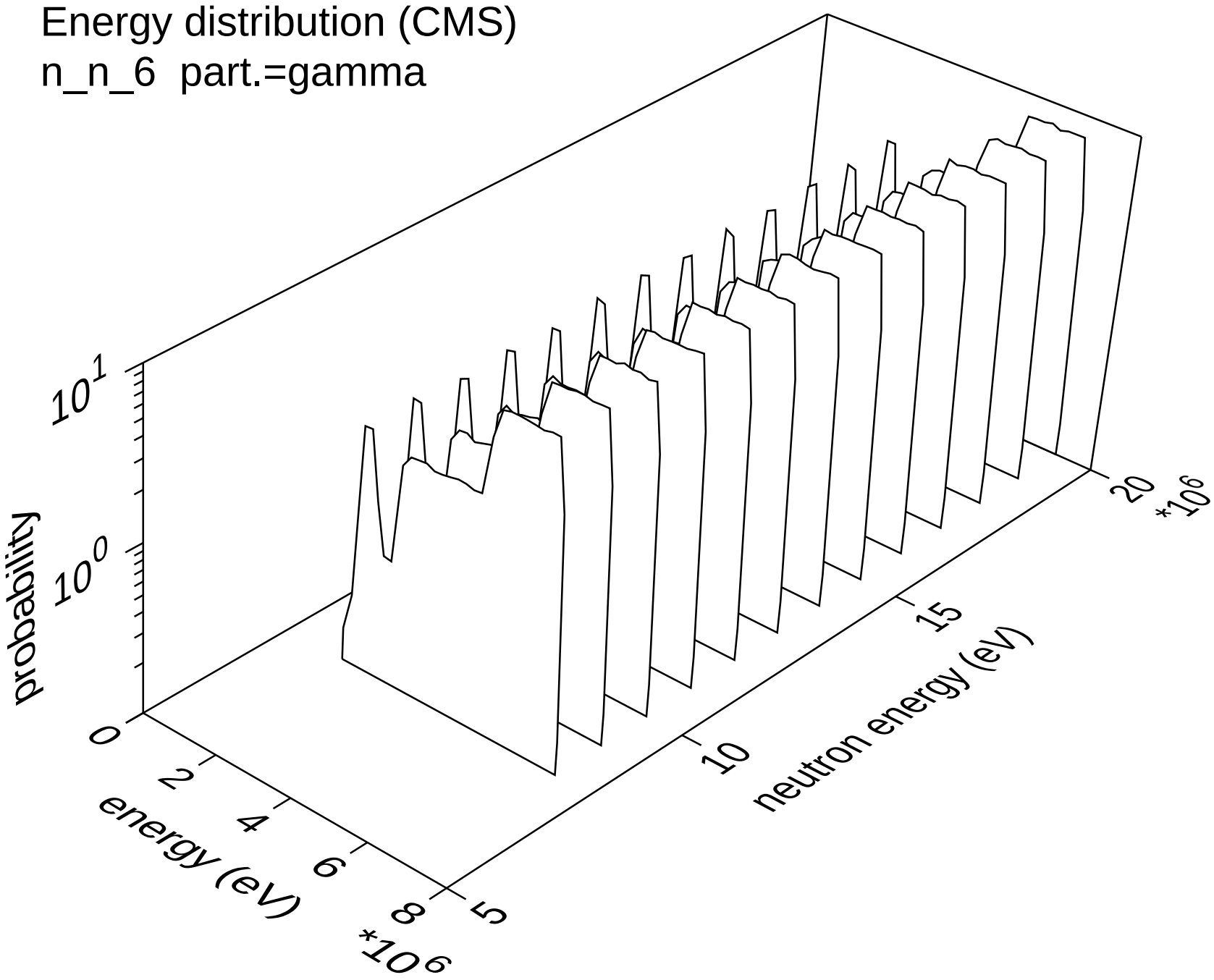

Energy distribution (CMS)
n_n_4 part.=neutron
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

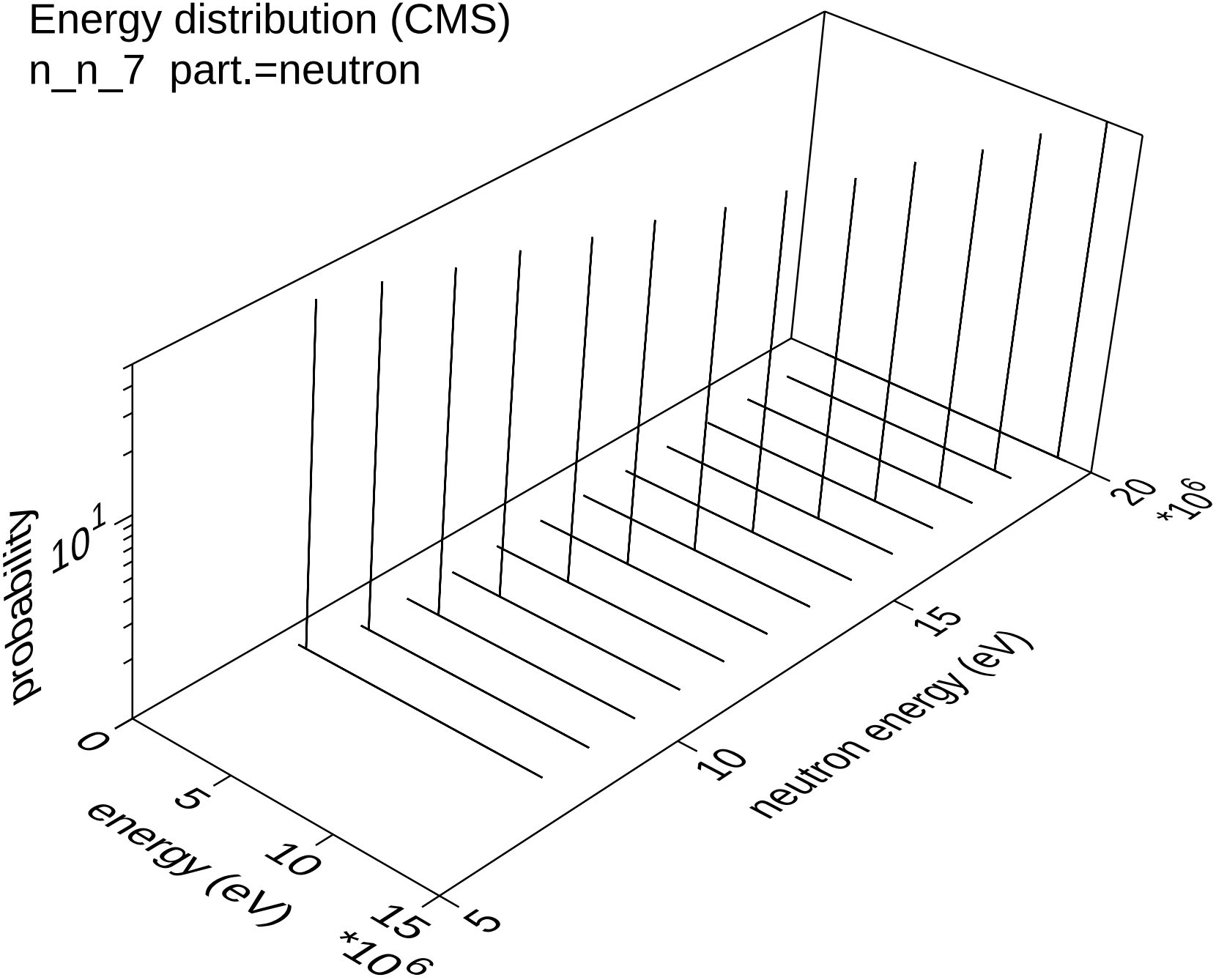

Energy distribution (CMS)
n_n_4 part.=gamma
probability
10^1
10^0
energy (eV)
1
2
3
4
5
*10 6
5
10
15
20
*10^6
neutron energy (eV)

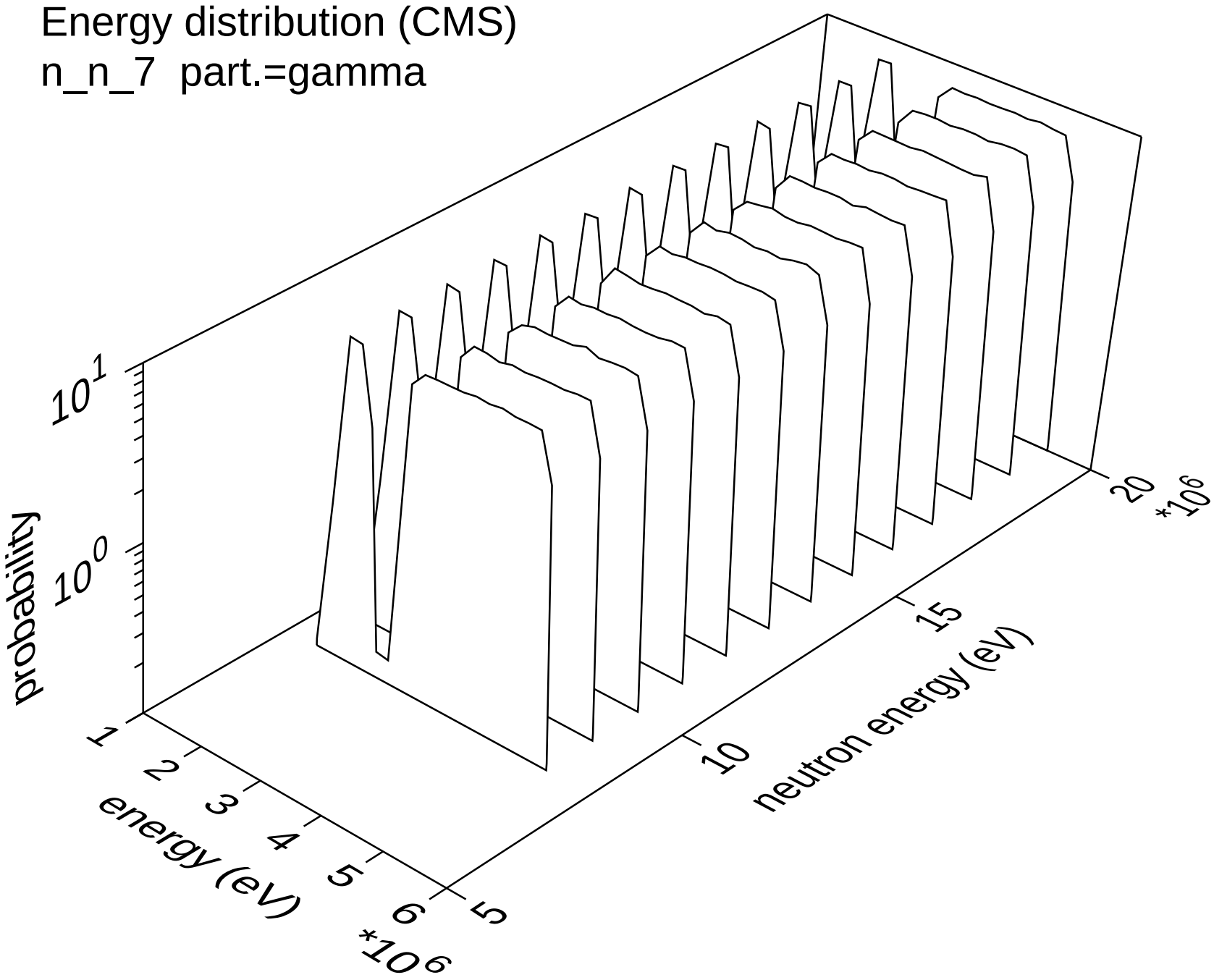

Energy distribution (CMS)
n_n_5 part.=neutron
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

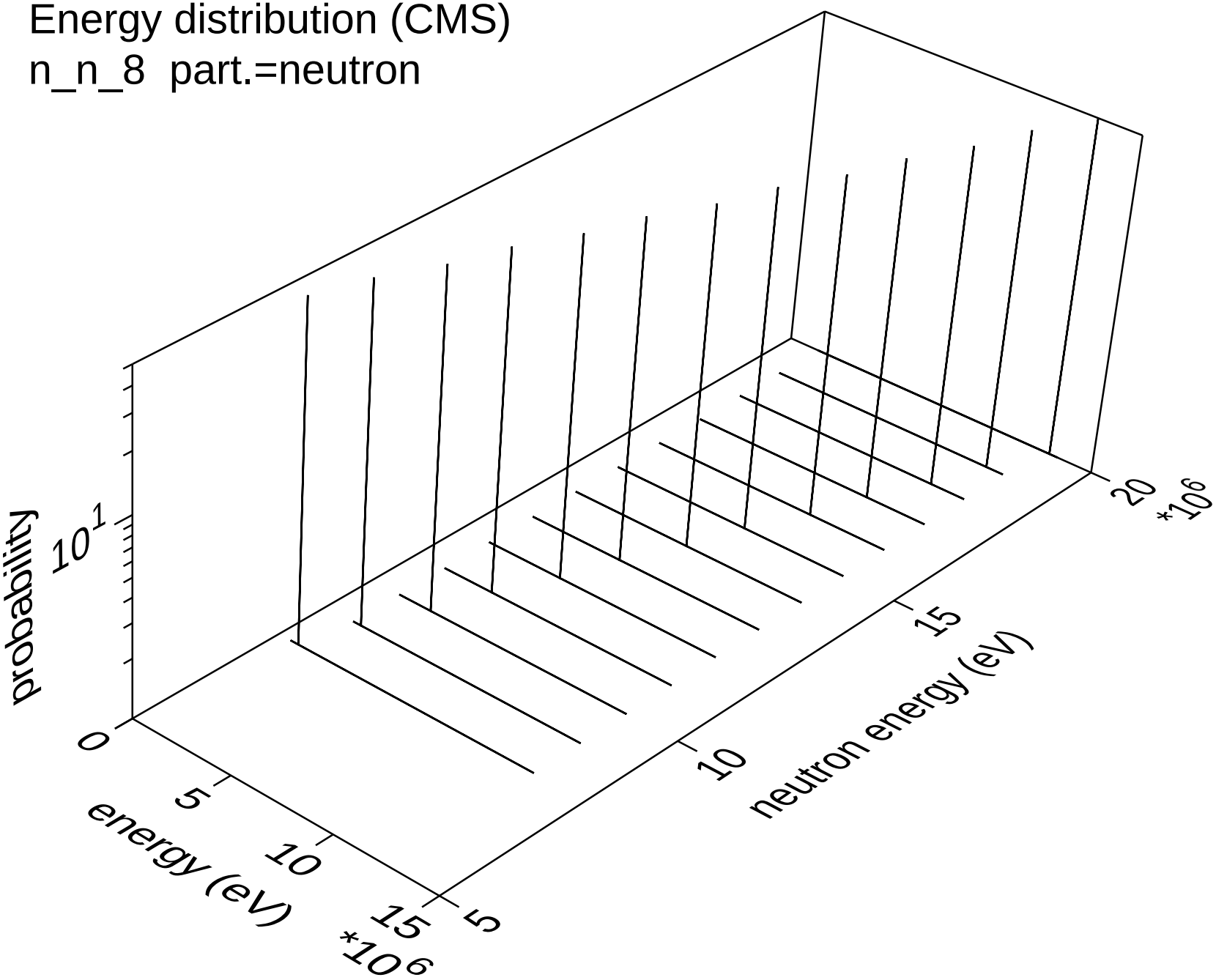

Energy distribution (CMS)
n_n_5 part.=gamma
probability
10^1
10^0
energy (eV)
1
2
3
4
5
6
*10 6
neutron energy (eV)
5
10
15
20
*10^6

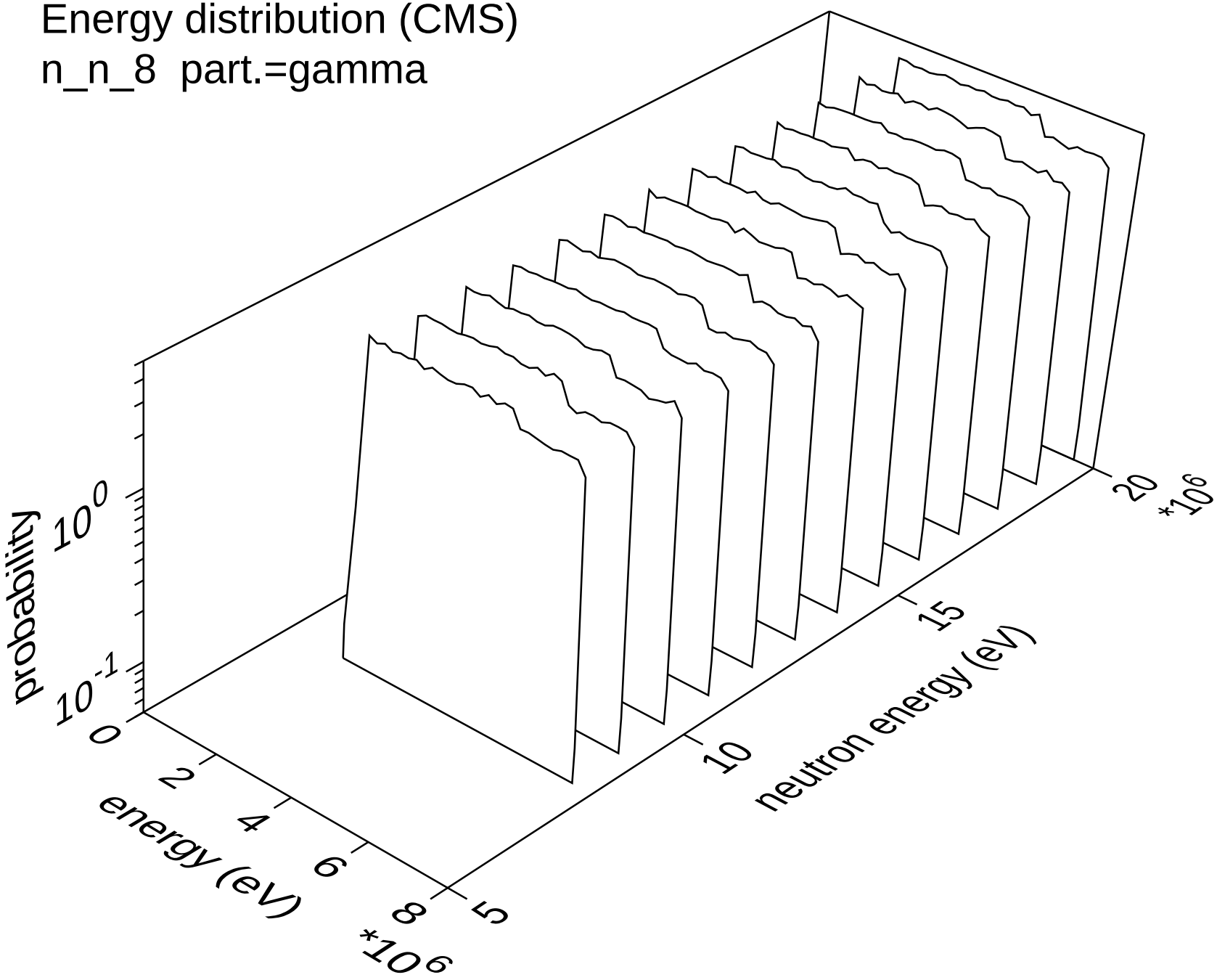

Energy distribution (CMS)
n_n_6 part.=neutron
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

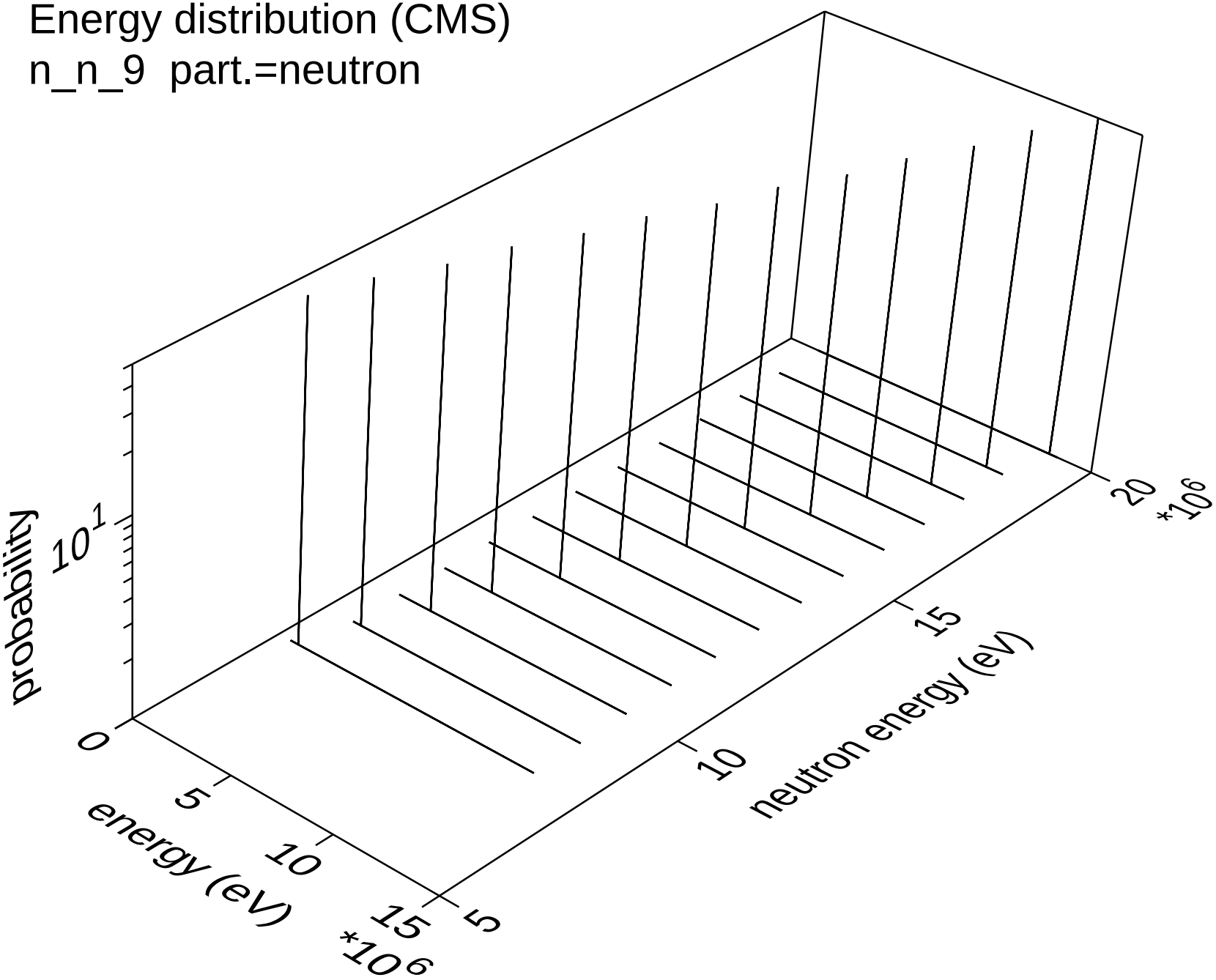

Energy distribution (CMS)
n_n_6 part.=gamma
probability
10^1
10^0
0
2
4
6
8
*10 6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

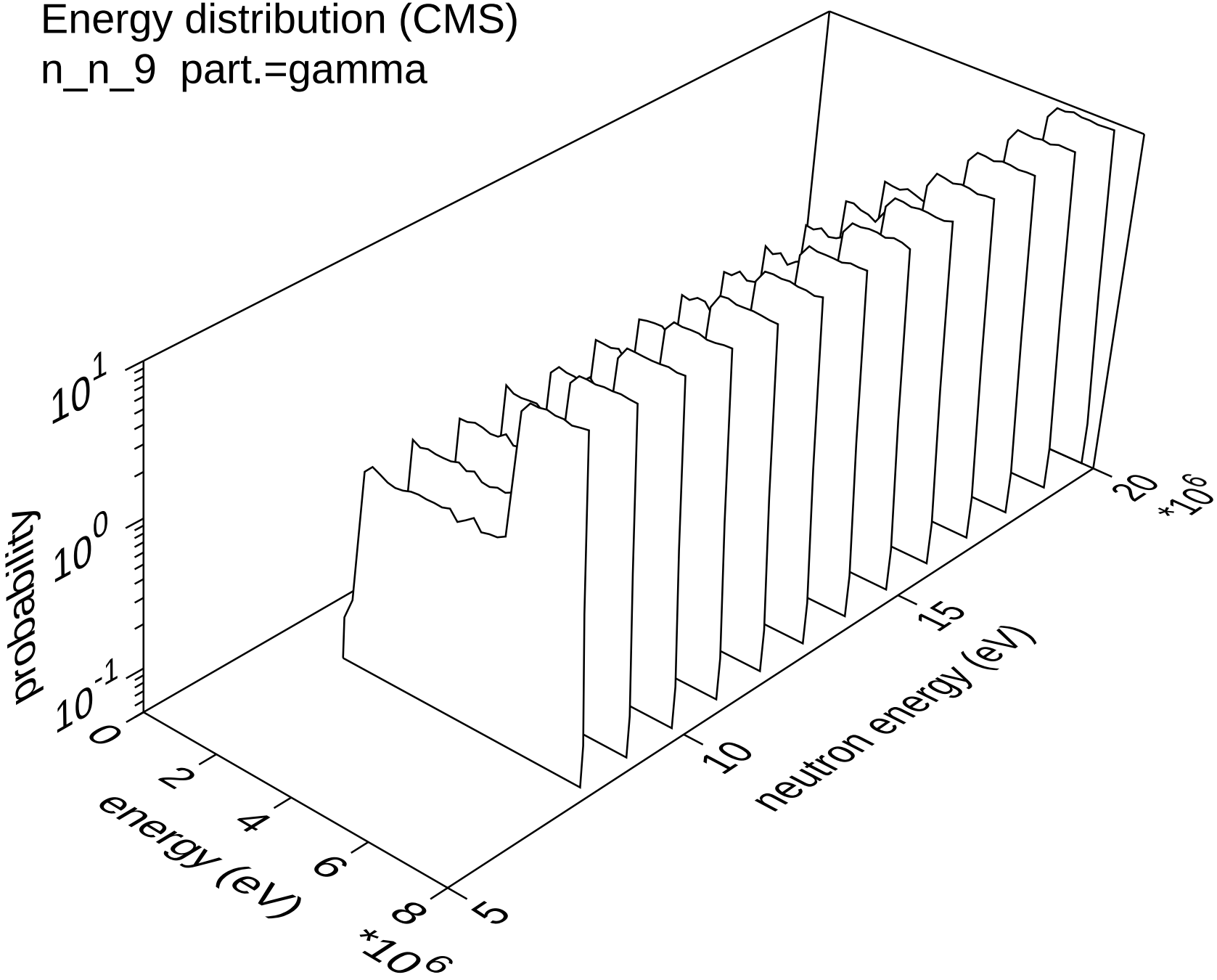

Energy distribution (CMS)
n_n_7 part.=neutron
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

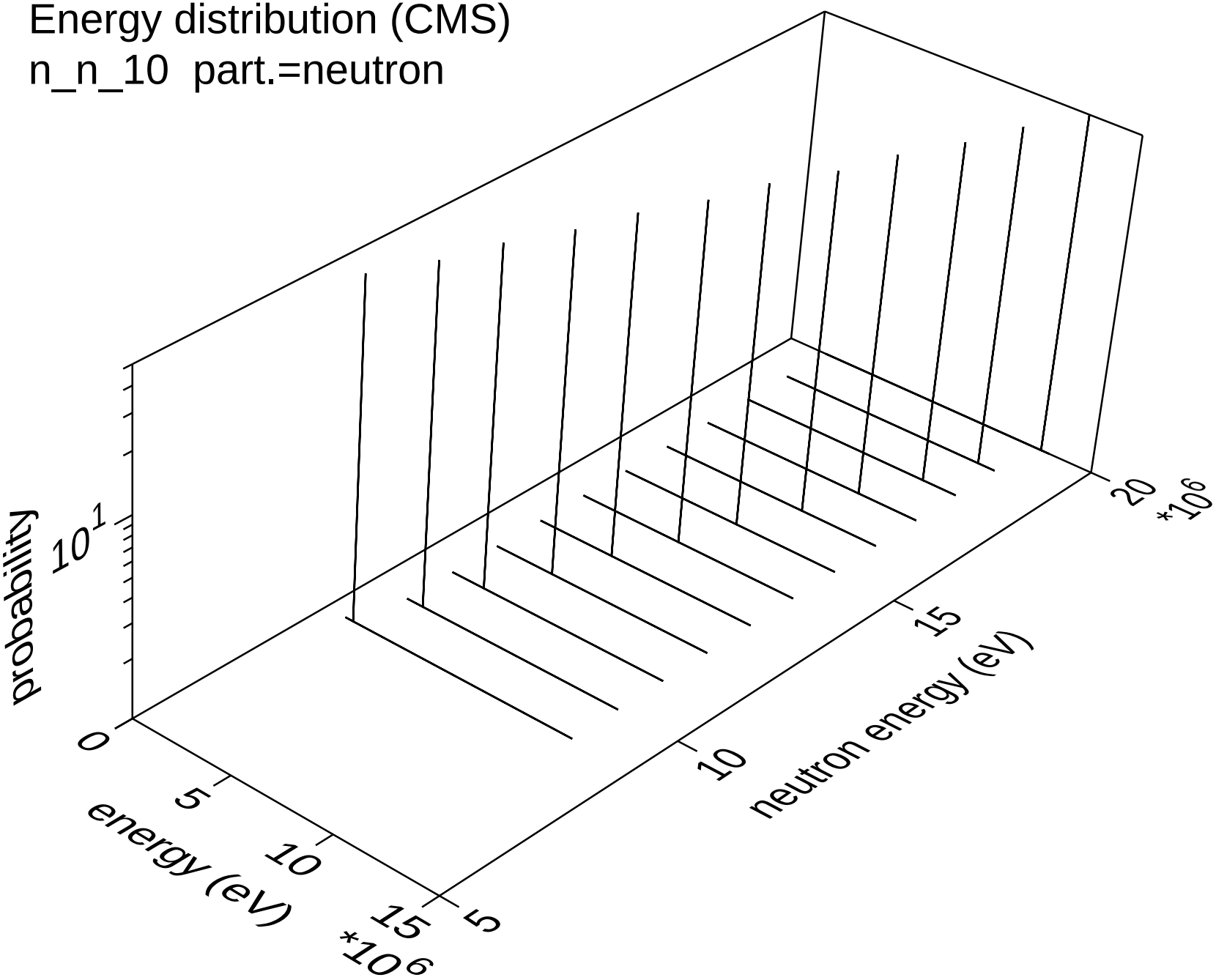

Energy distribution (CMS)
n_n_7 part.=gamma
probability
10^1
10^0
1
2
3
4
5
6
*10 6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

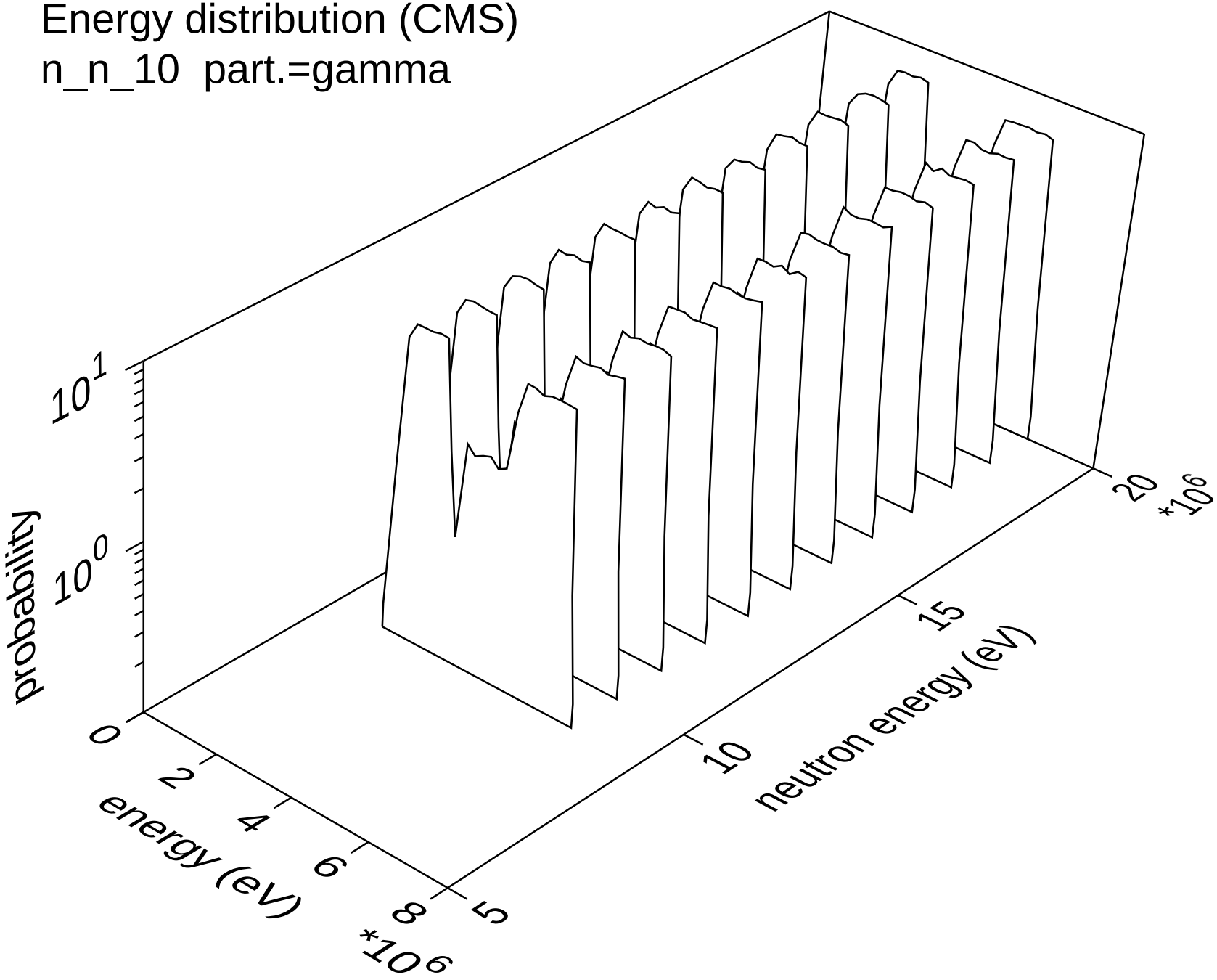

Energy distribution (CMS)
n_n_8 part.=neutron
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

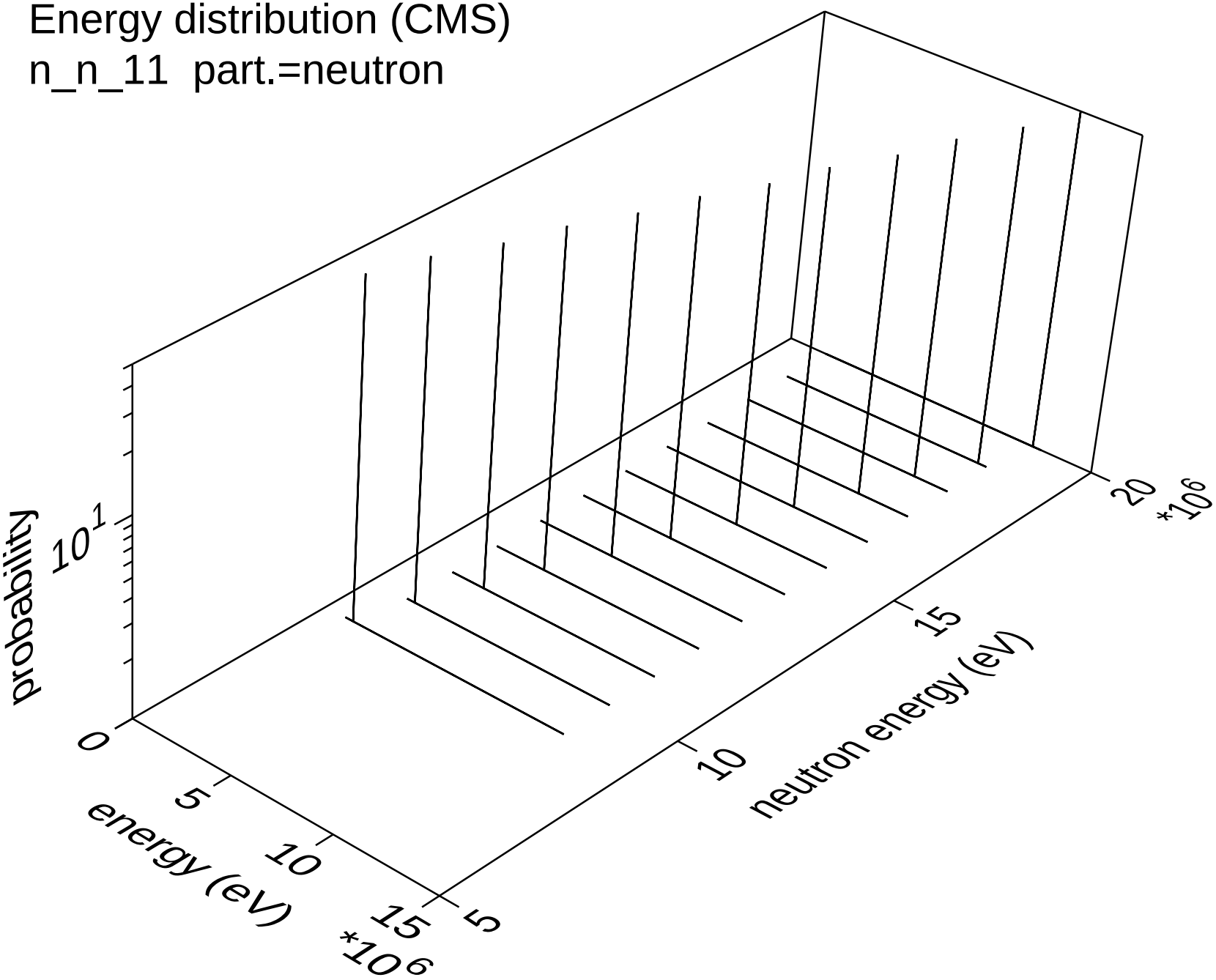

Energy distribution (CMS)
n_n_8 part.=gamma
probability
10^{0}
10^{-1}
0
2
4
6
8
*10 6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

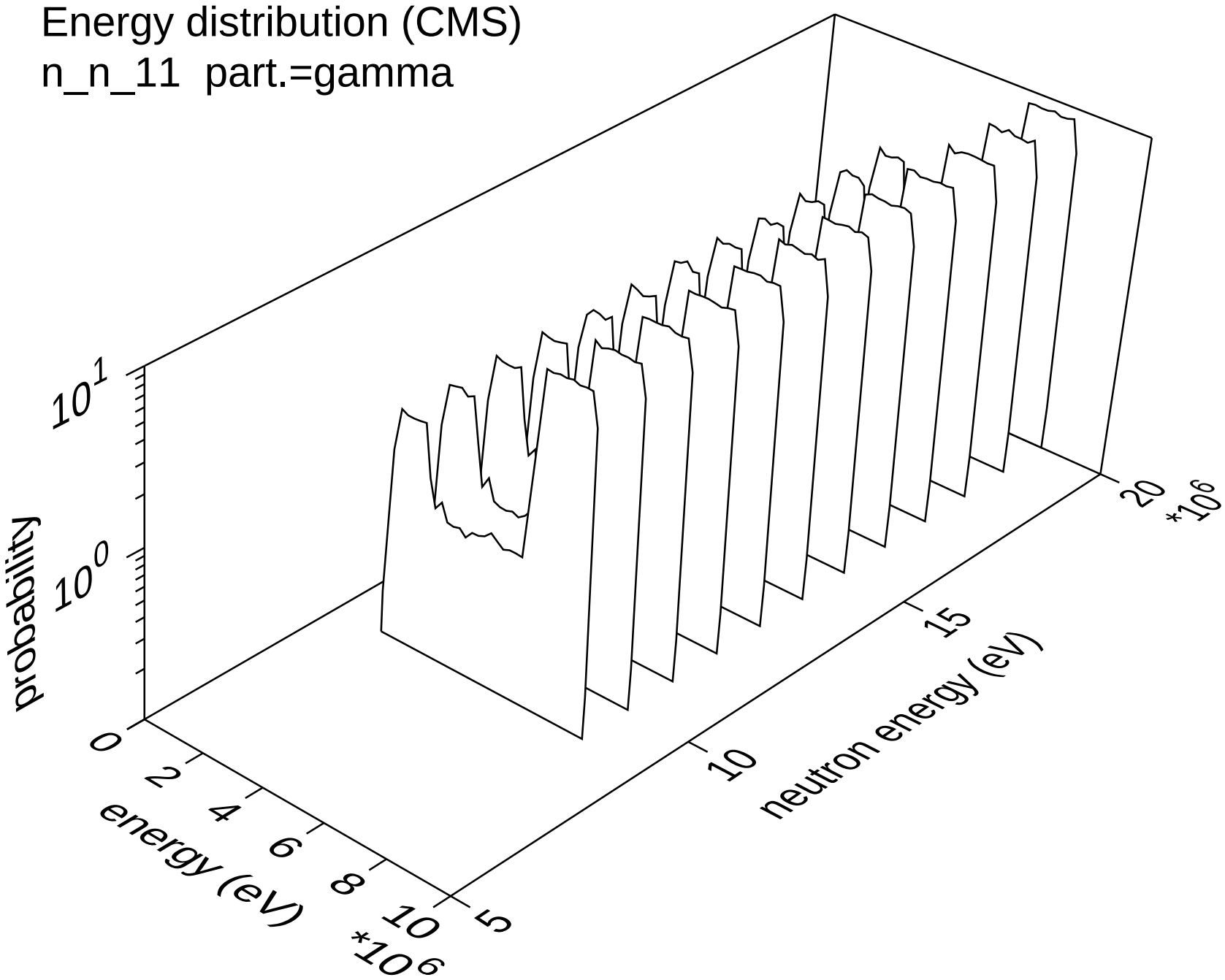

Energy distribution (CMS)
n_n_9 part.=neutron
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

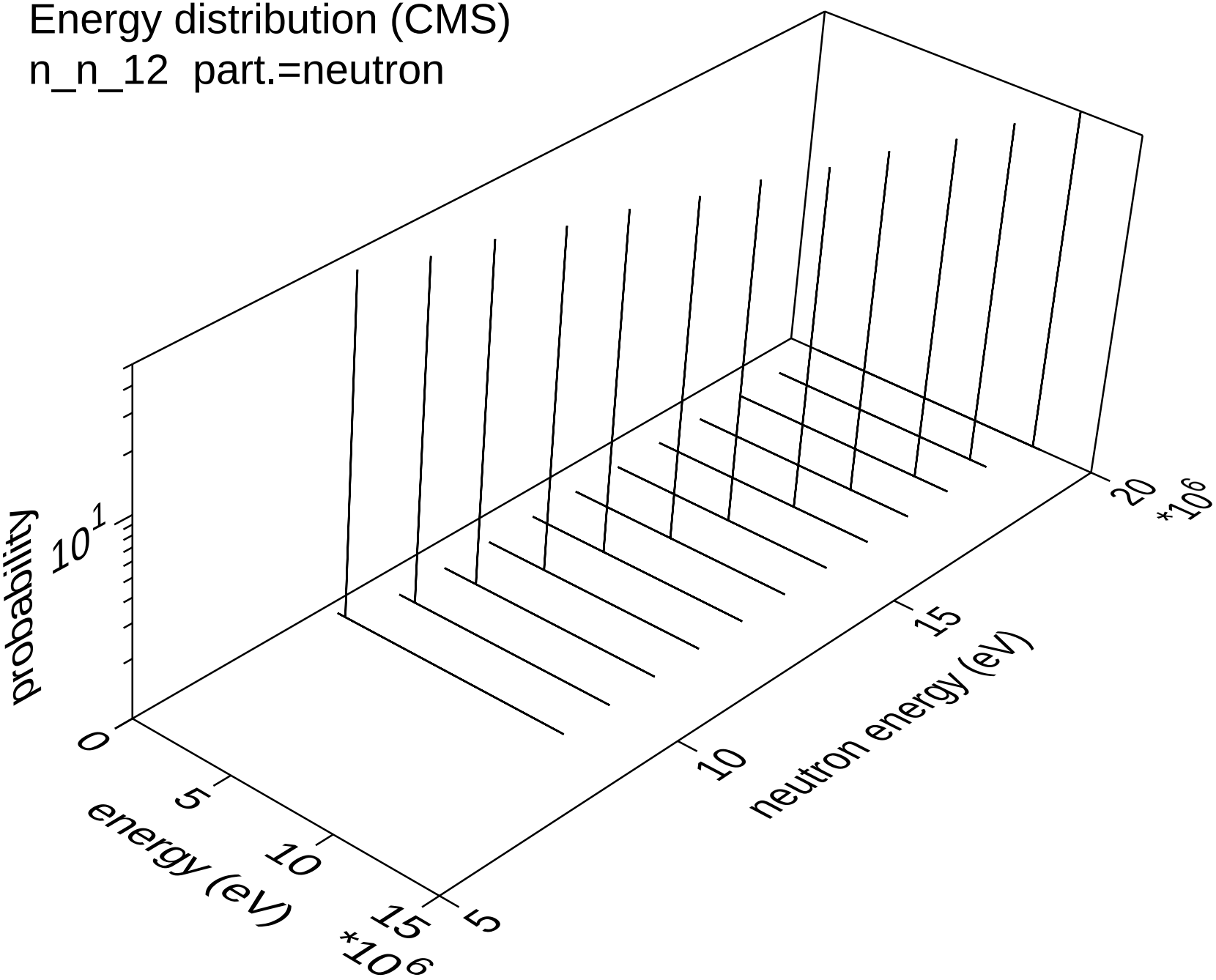

Energy distribution (CMS)
n_n_9 part.=gamma
probability
10^{1}
10^{0}
10^{-1}
0
2
4
6
8
*10 6
energy (eV)
5
10
15
20
*10⁶
neutron energy (eV)

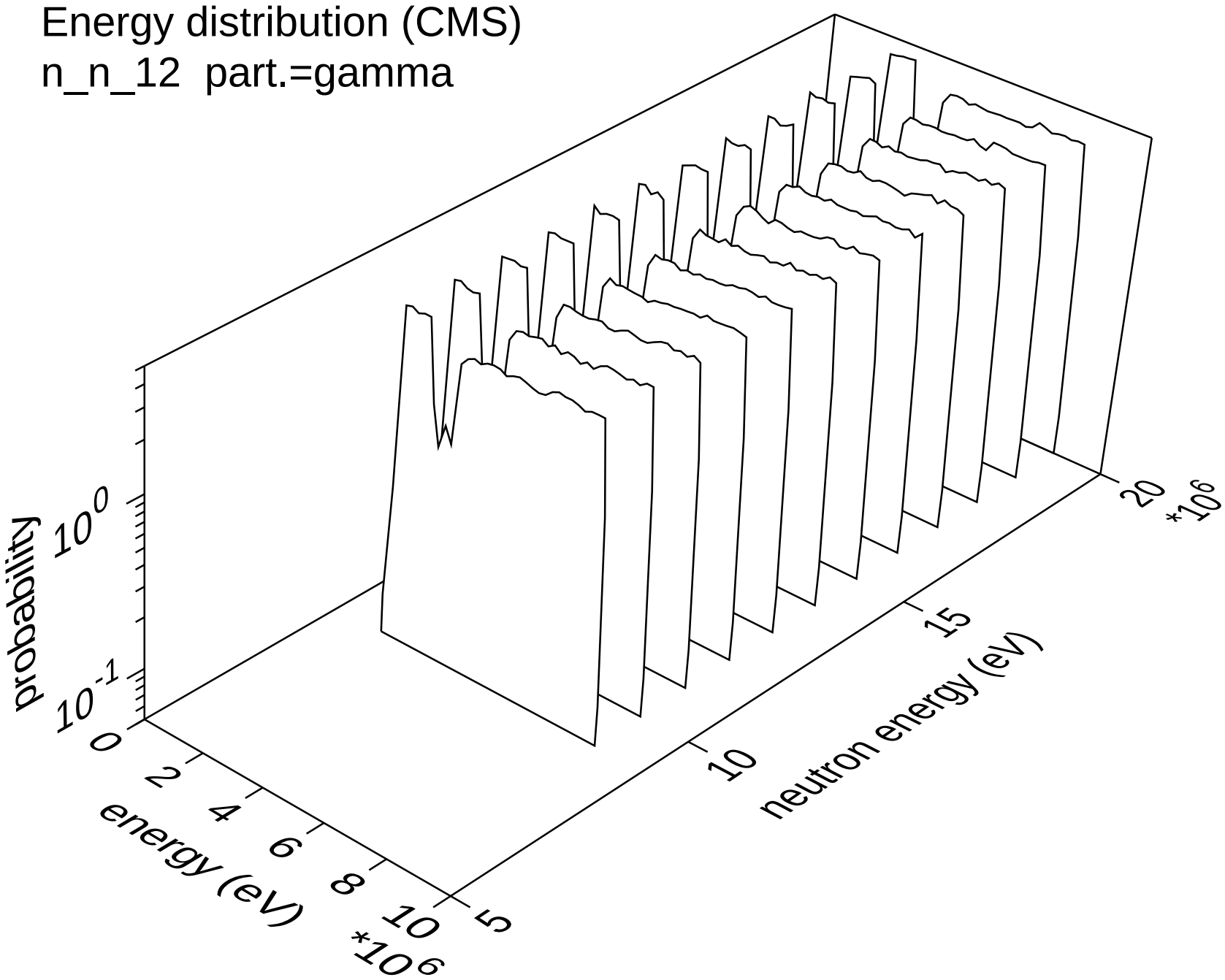

Energy distribution (CMS)
n_n_10 part.=neutron
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

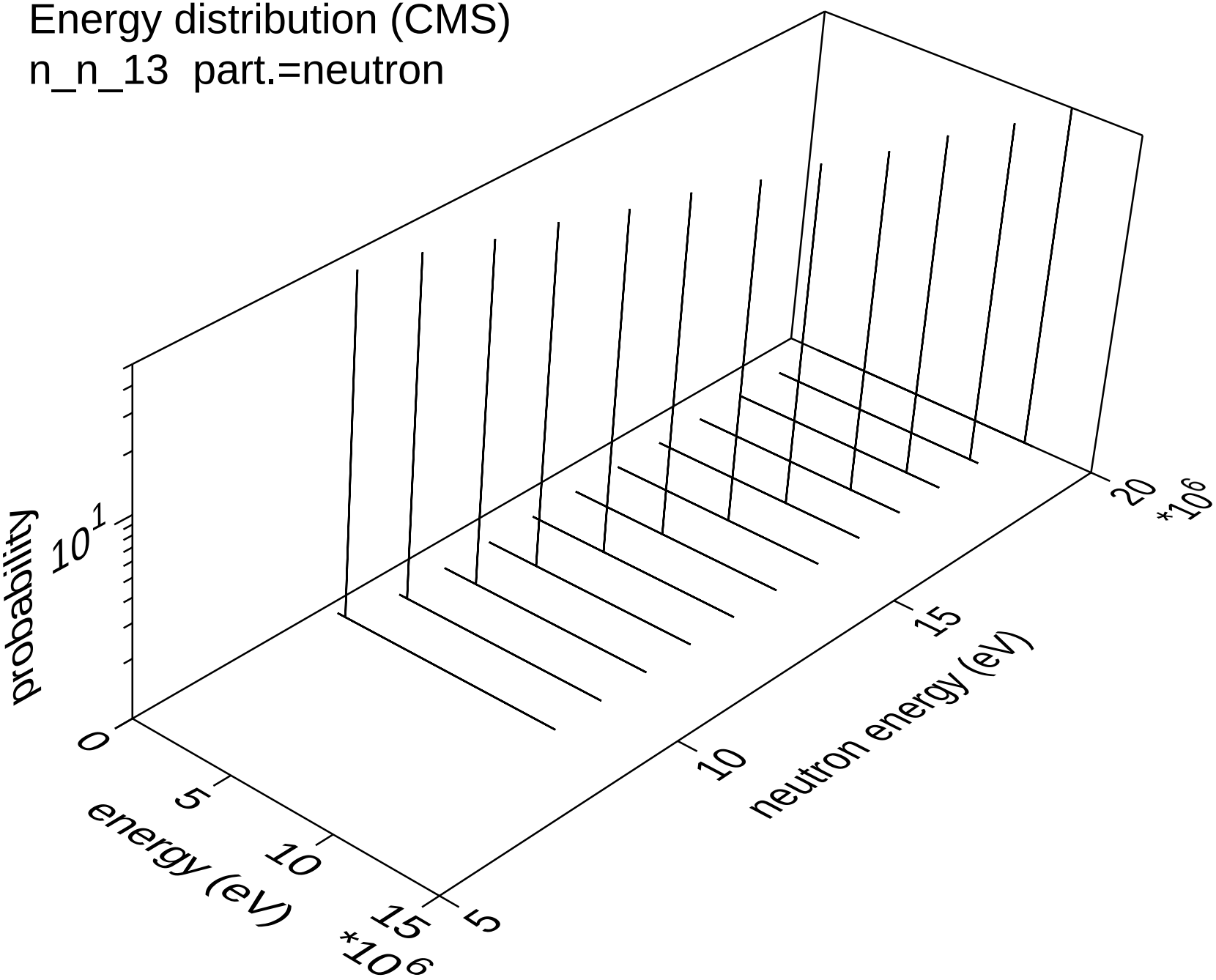

Energy distribution (CMS)
n_n_10 part.=gamma
probability
10^1
10^0
0
2
4
6
8
*10 6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

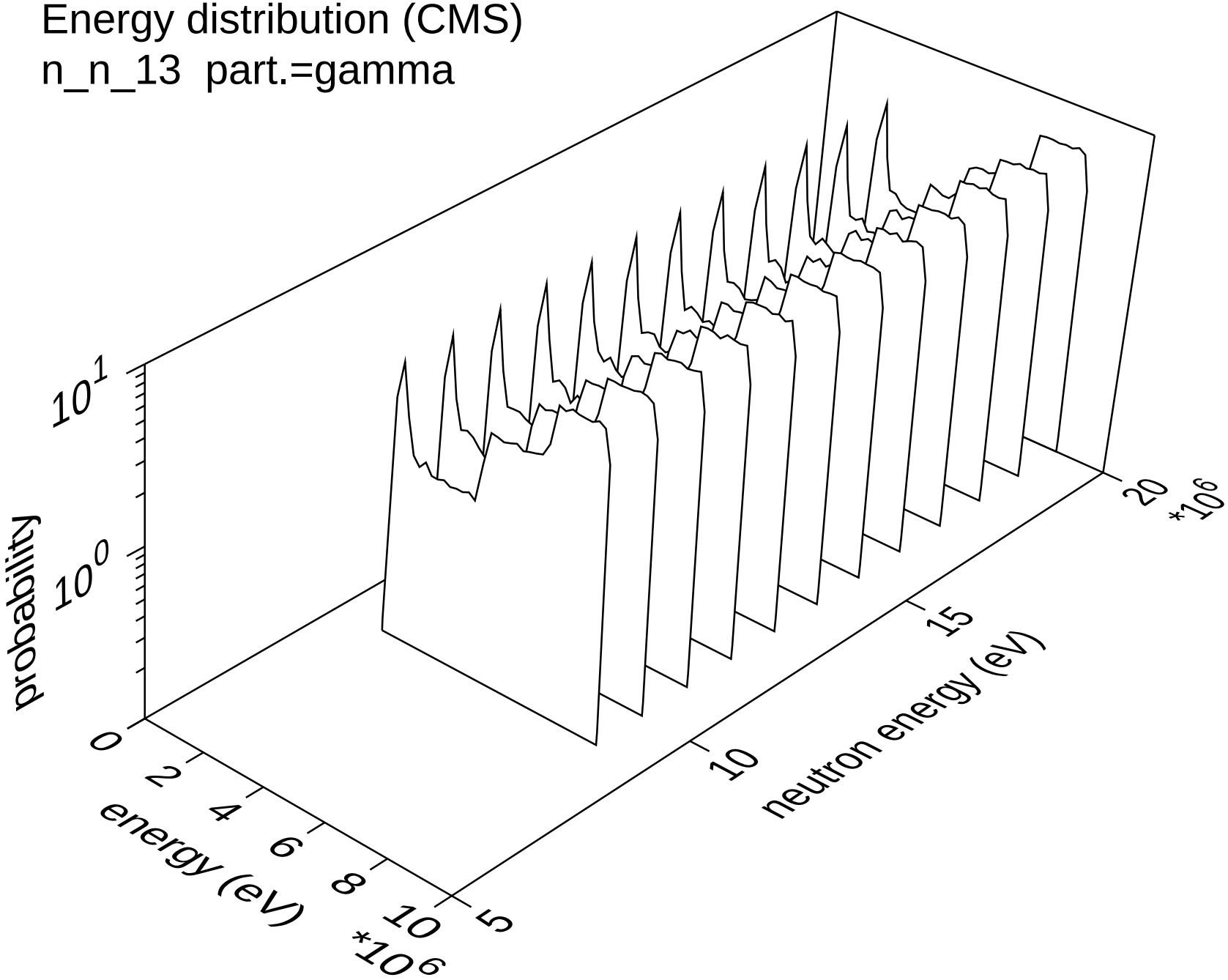

Energy distribution (CMS)
n_n_11 part.=neutron
probability
10^1
0
5
10
15
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

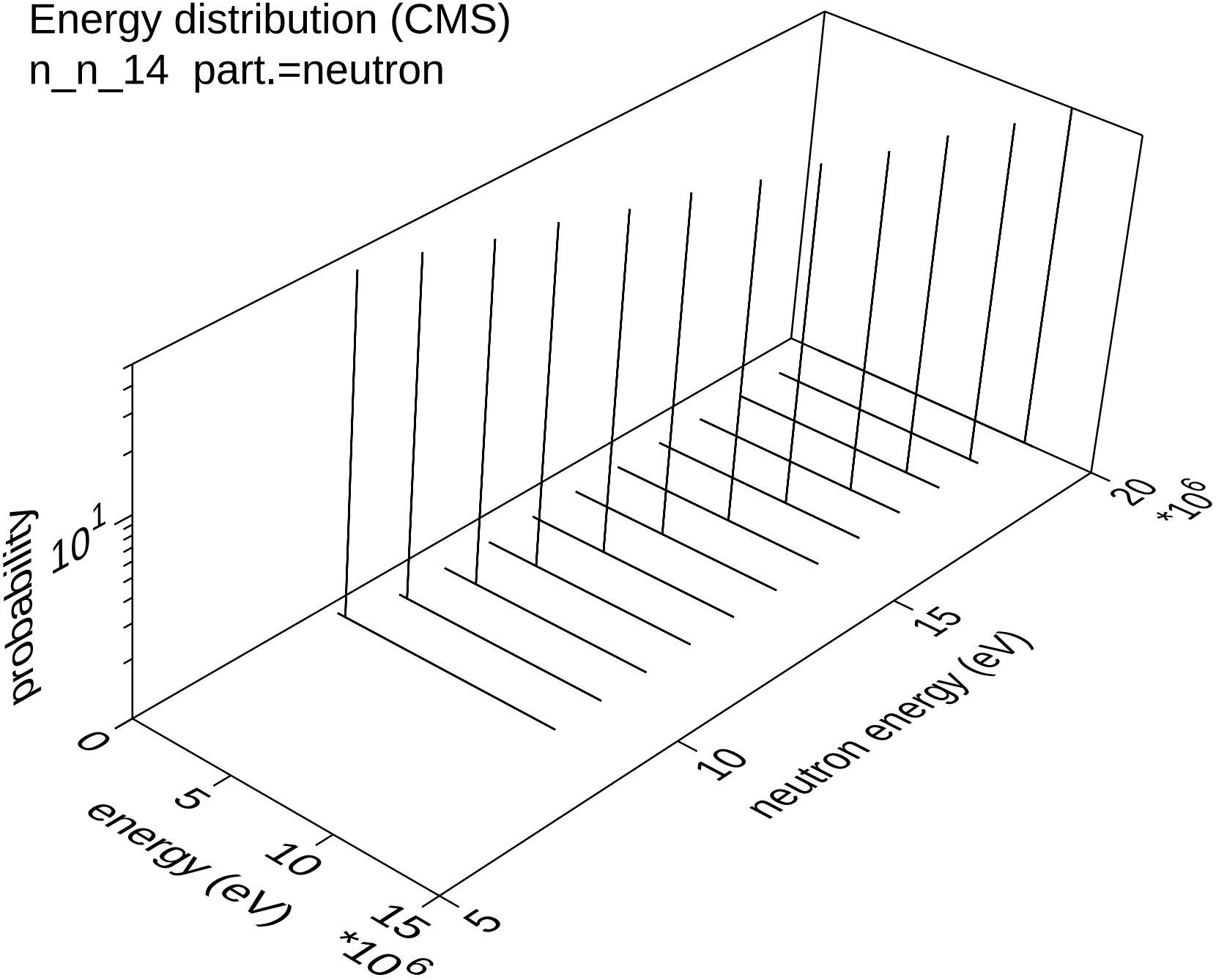

Energy distribution (CMS)
n_n_11 part.=gamma
probability
10^1
10^0
0
2
4
6
8
10
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

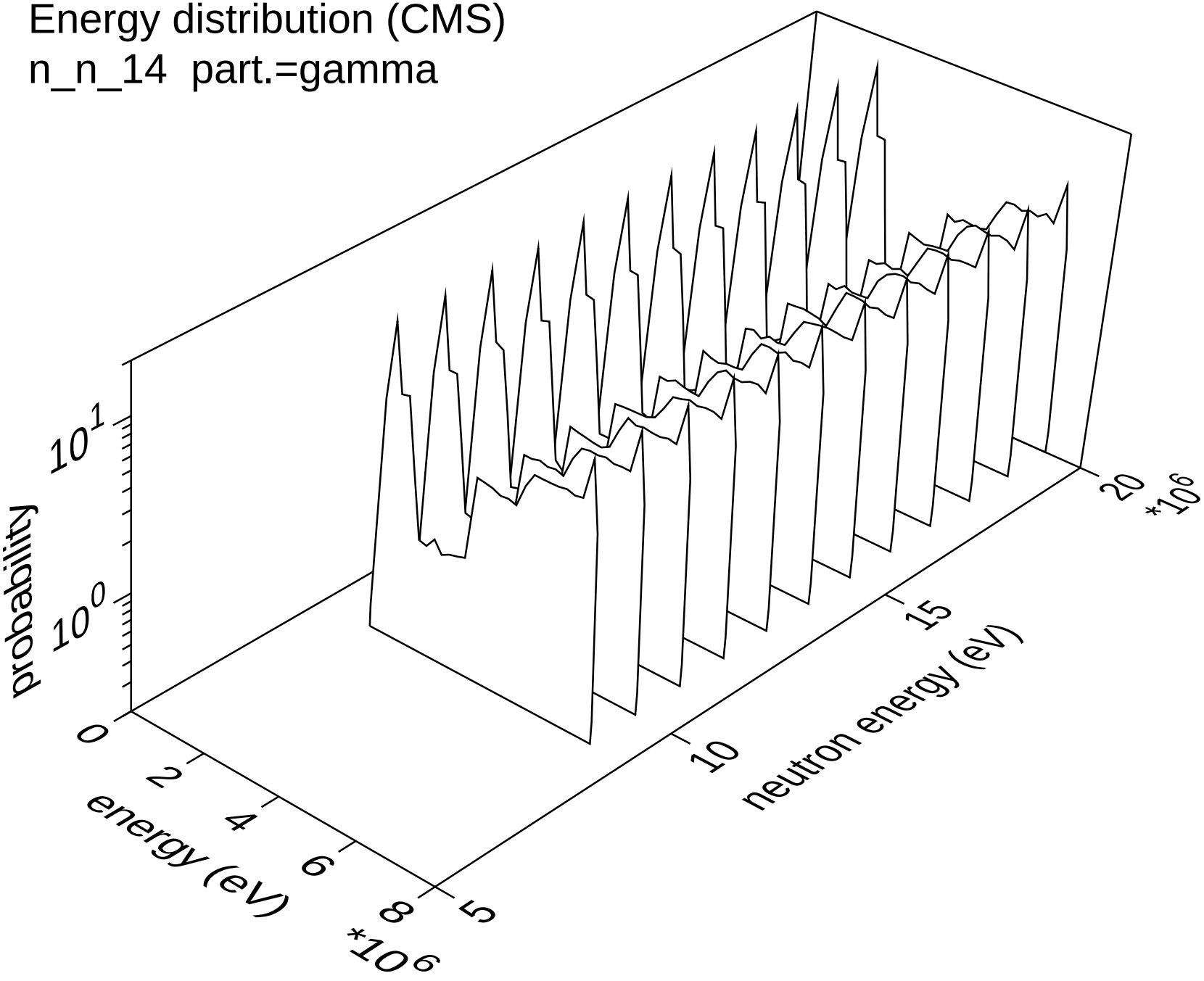

Energy distribution (CMS)
n_n_12 part.=neutron
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

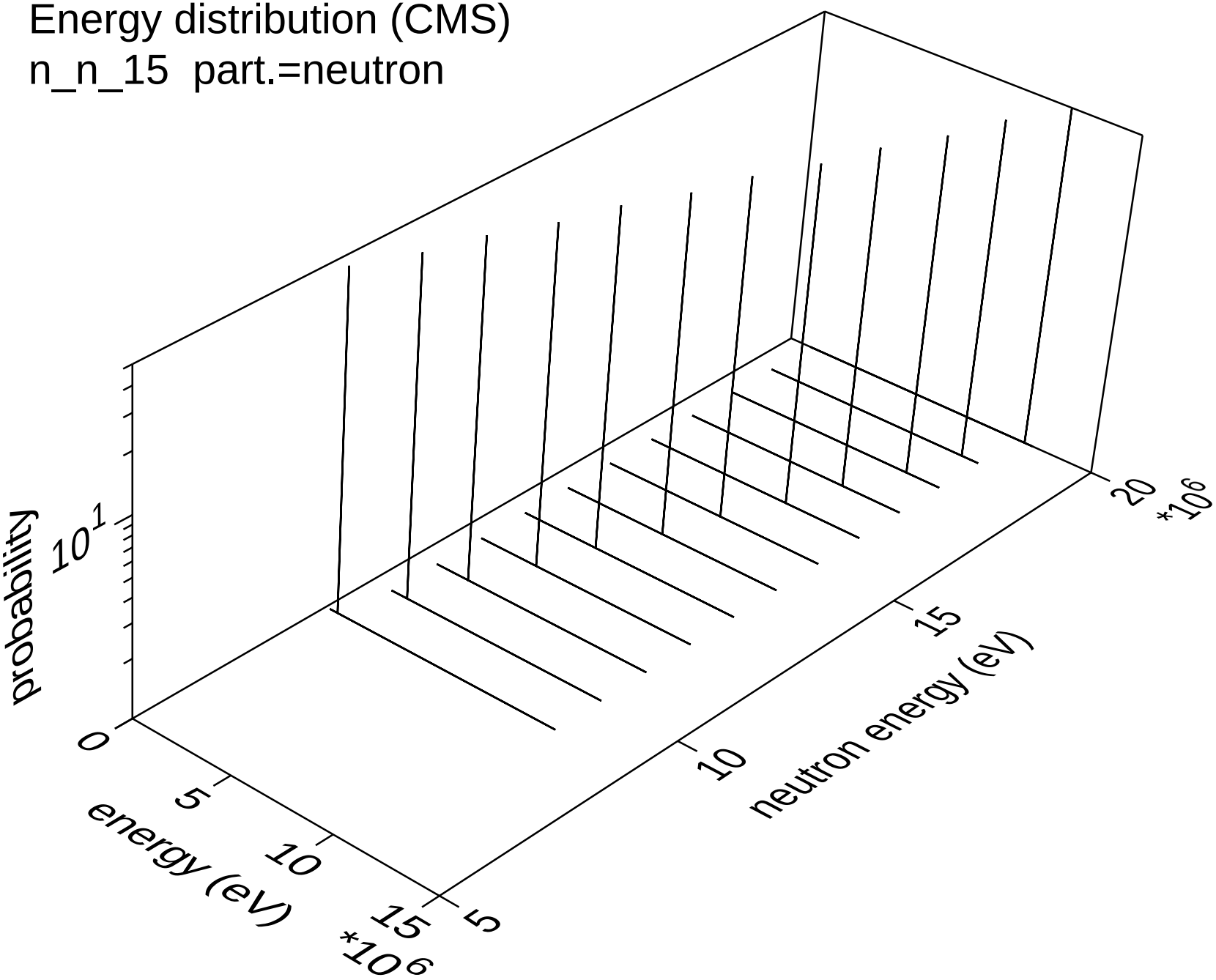

Energy distribution (CMS)
n_n_12 part.=gamma
probability
10^0
10^{-1}
0
2
4
6
8
10
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

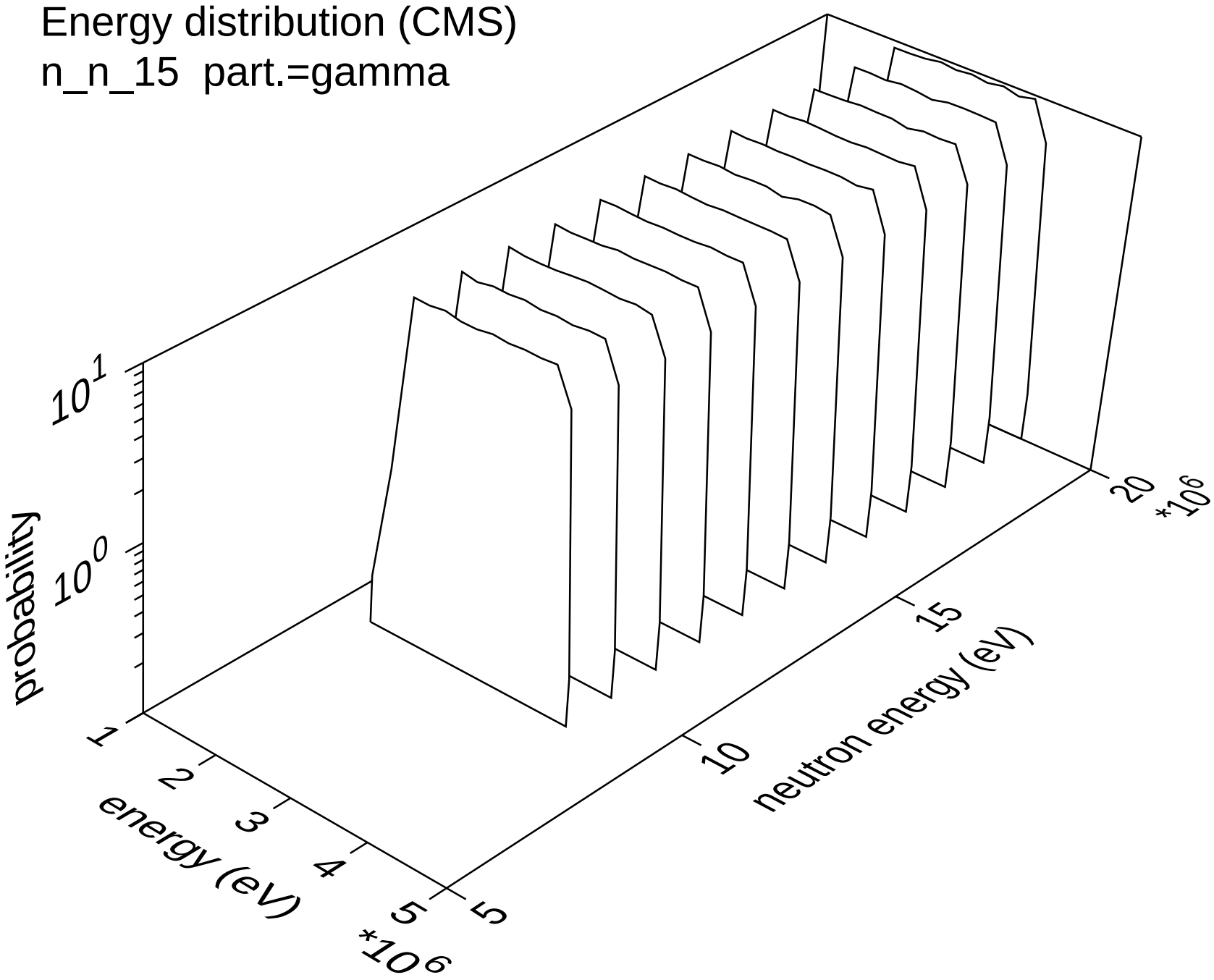

Energy distribution (CMS)
n_n_13 part.=neutron
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

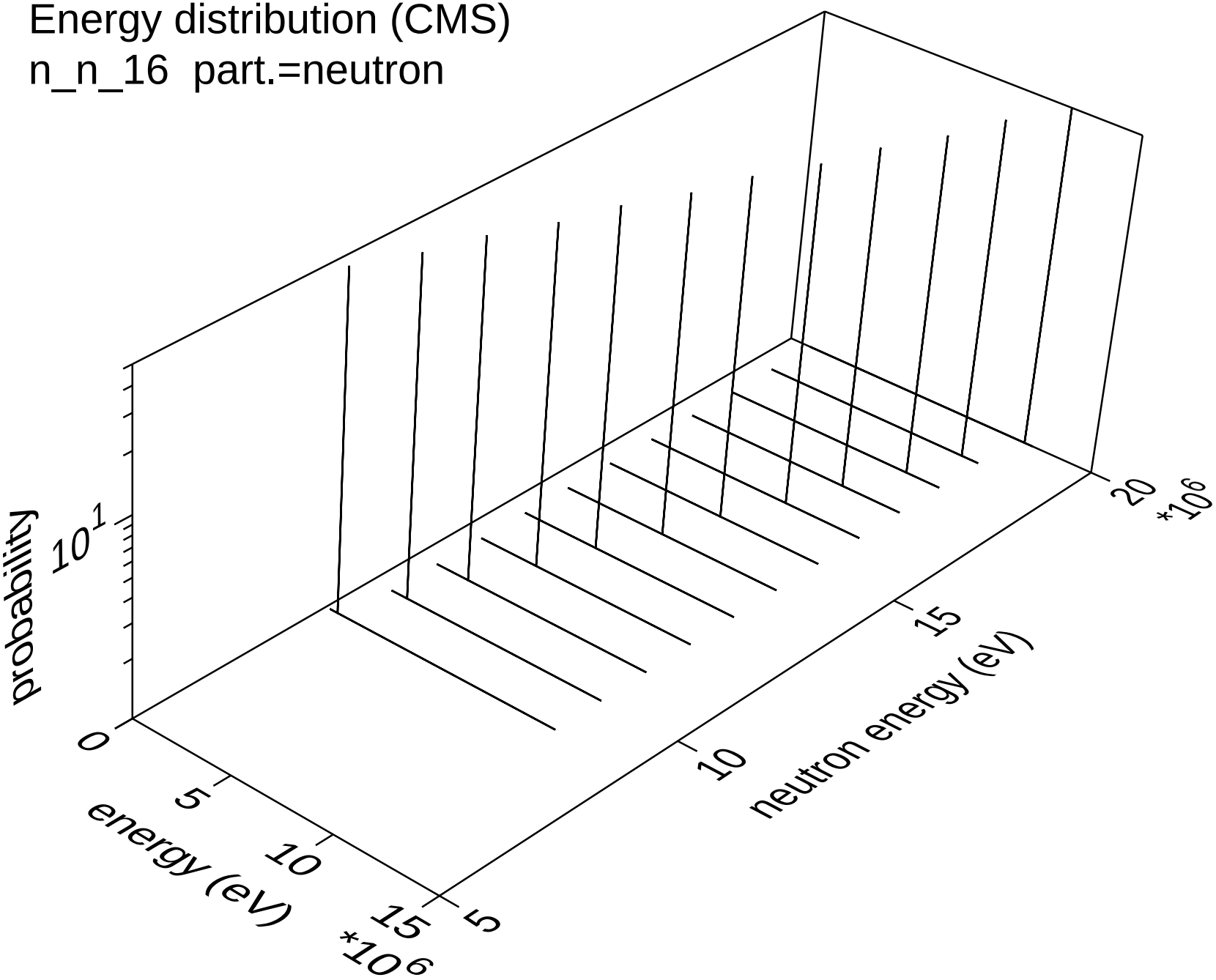

Energy distribution (CMS)
n_n_13 part.=gamma
probability
10^1
10^0
0
2
4
6
8
10
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

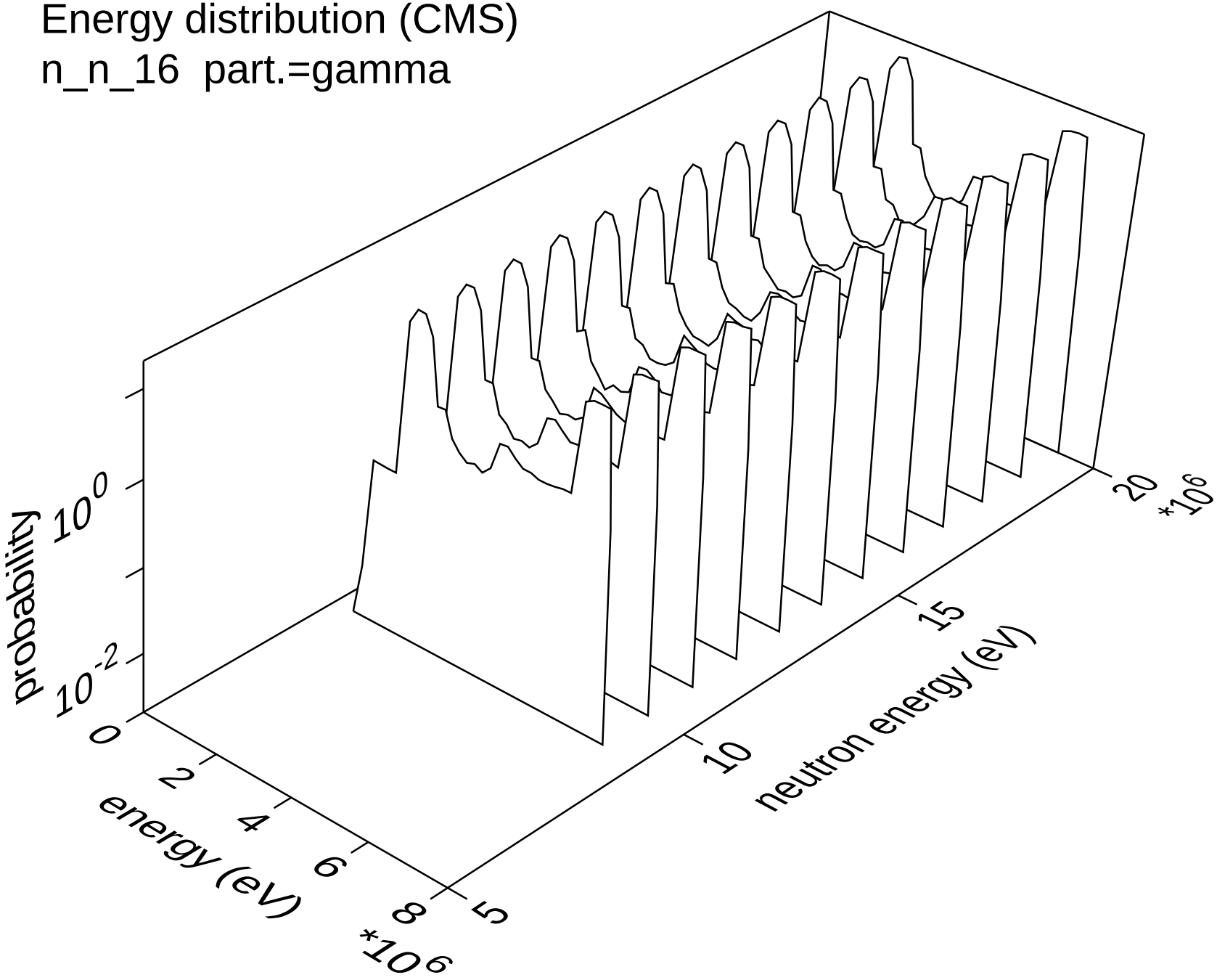

Energy distribution (CMS)
n_n_14 part.=neutron
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

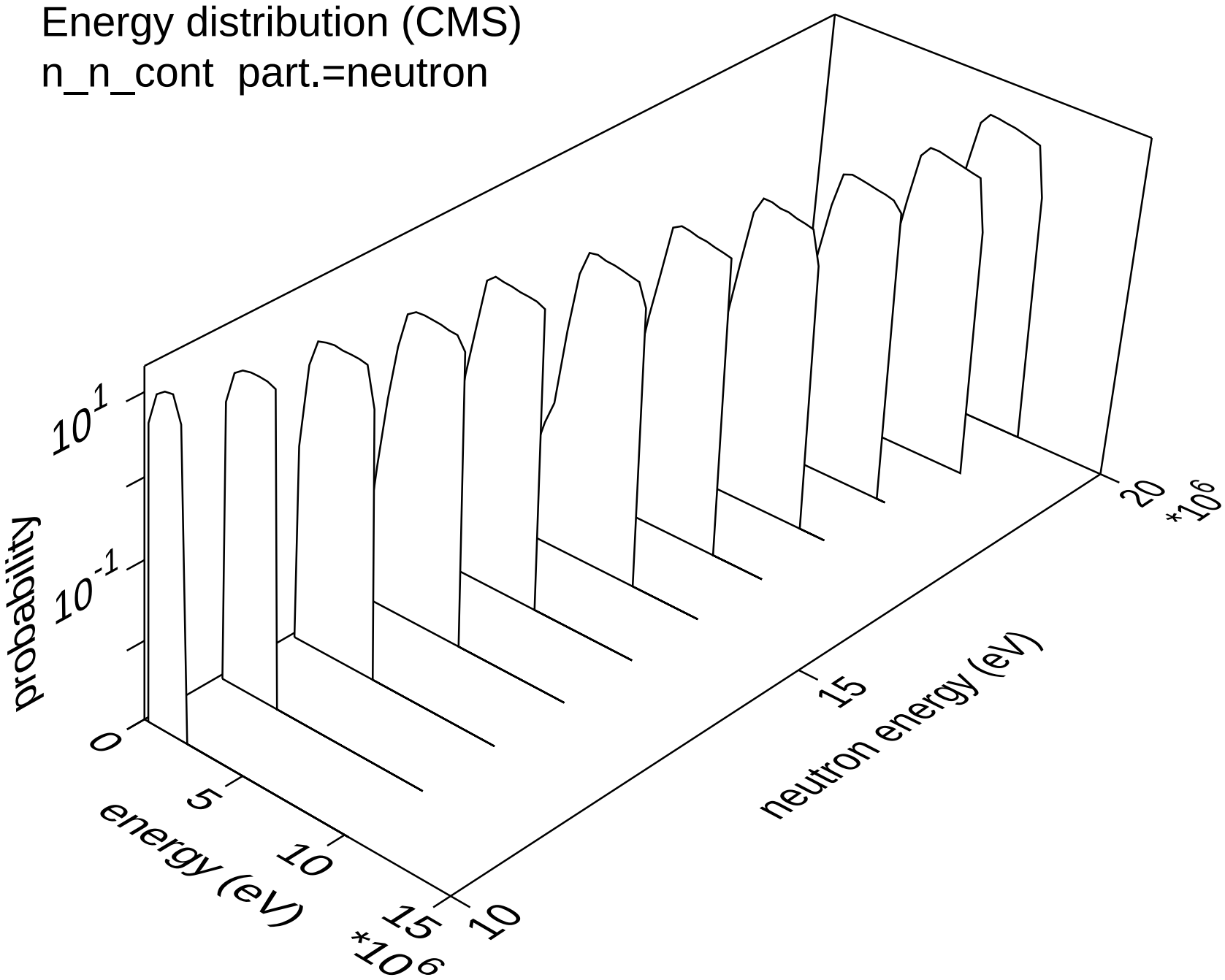

Energy distribution (CMS)
n_n_14 part.=gamma
probability
10^1
10^0
0
2
4
6
8
*10 6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

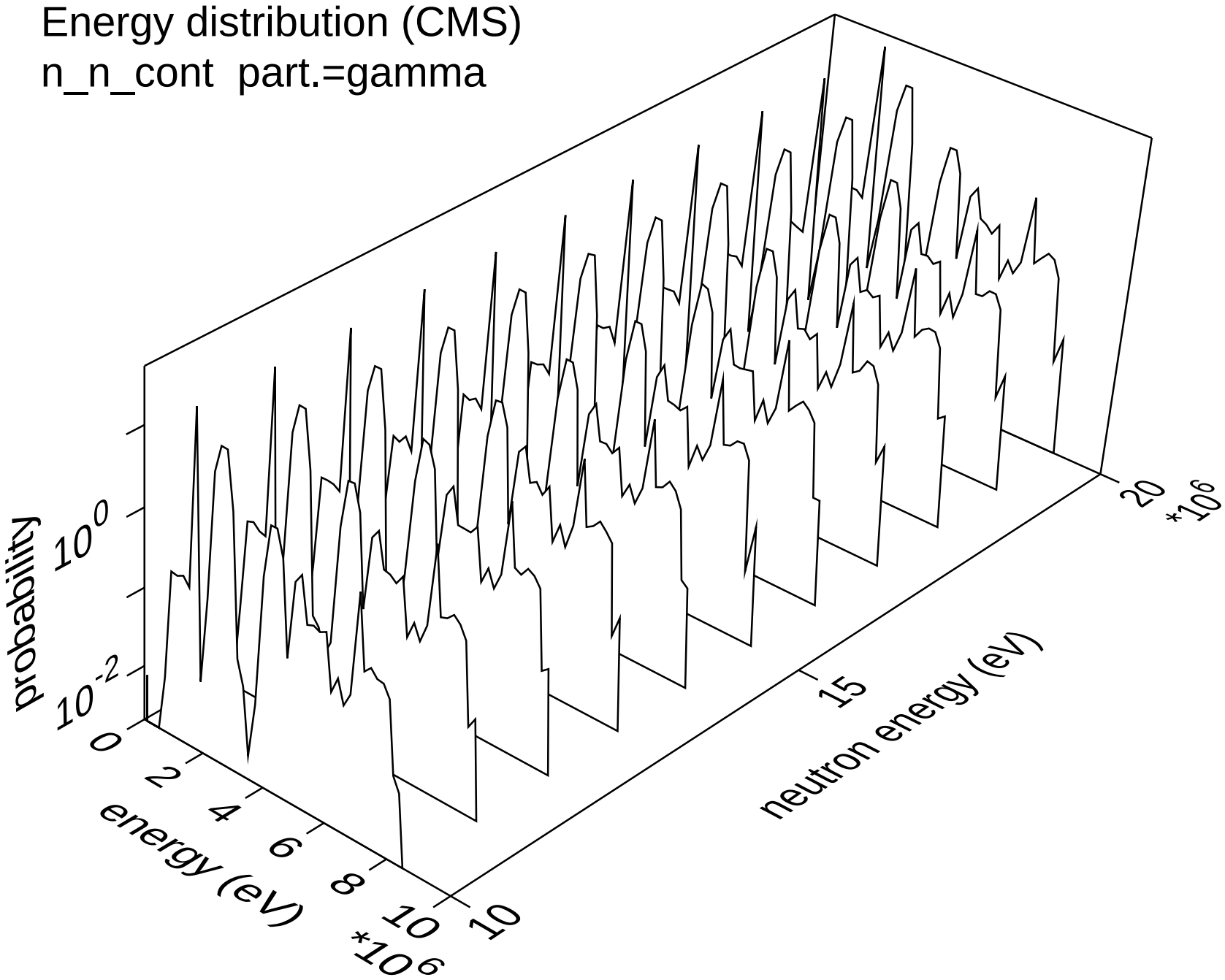

Energy distribution (CMS)
n_n_15 part.=neutron
probability
10^{1}
0
5
10
15
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

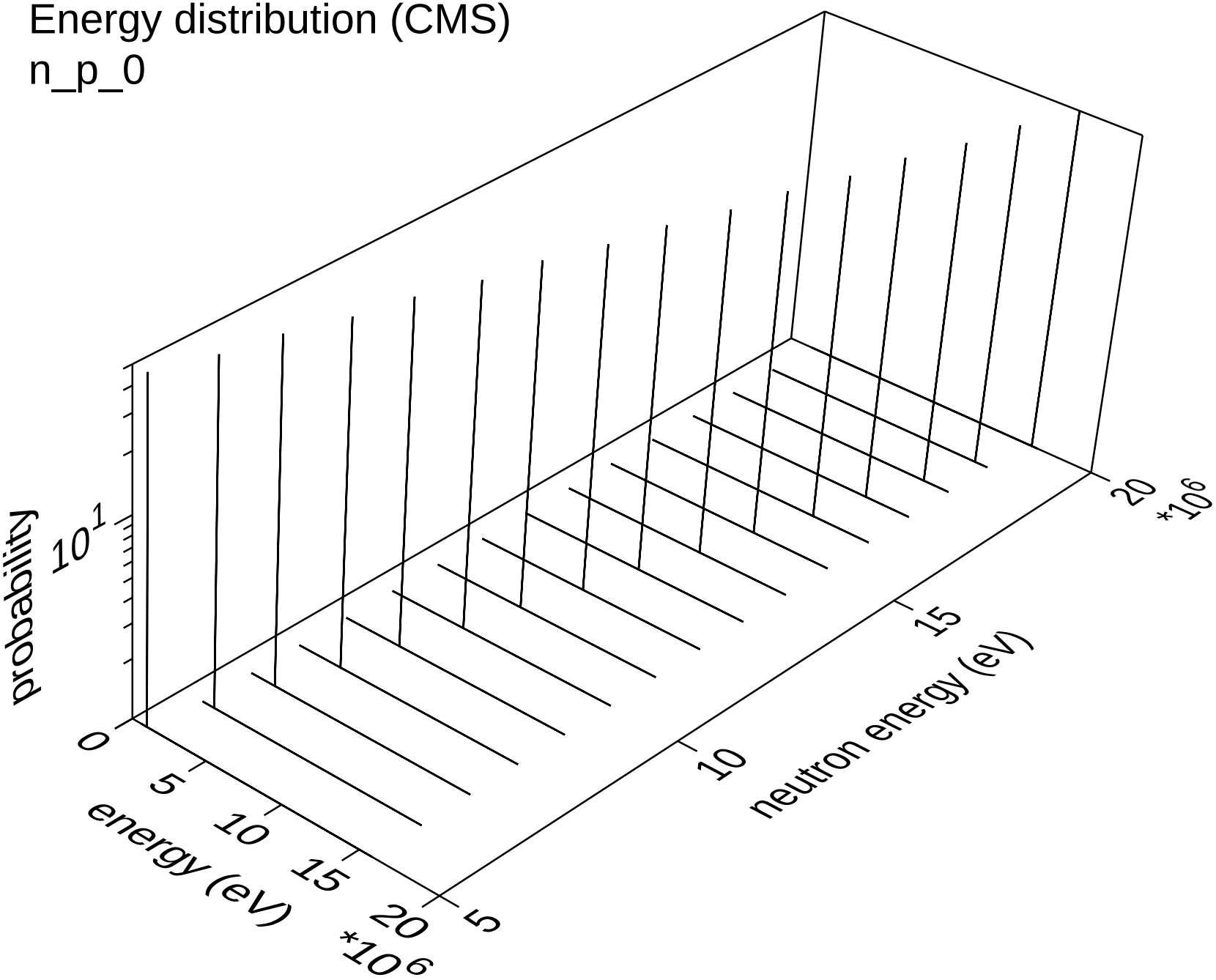

Energy distribution (CMS)
n_n_15 part.=gamma
probability
10^1
10^0
energy (eV)
1
2
3
4
5
*10 6
5
10
15
20
*10^6
neutron energy (eV)

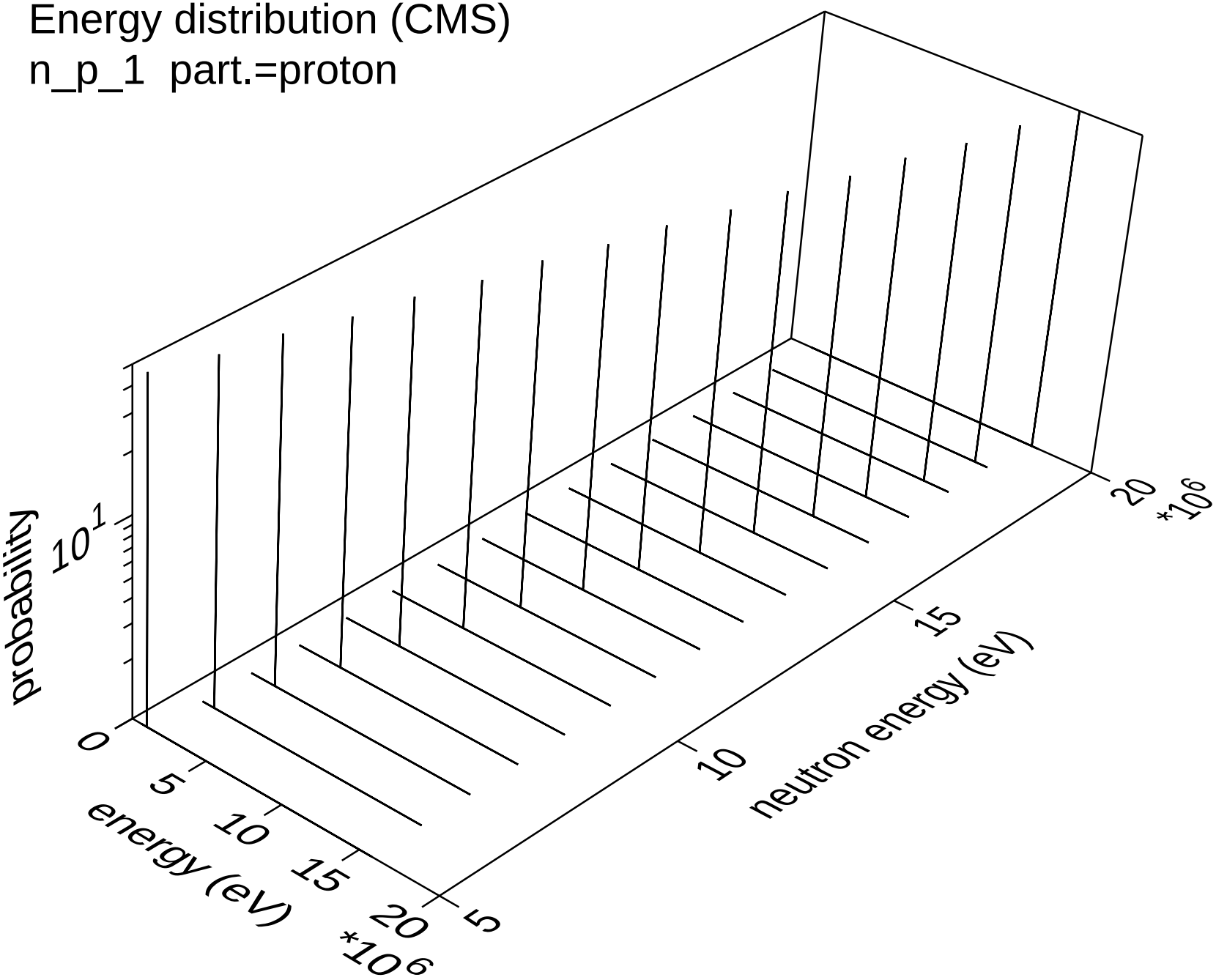

Energy distribution (CMS)
n_n_16 part.=neutron
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

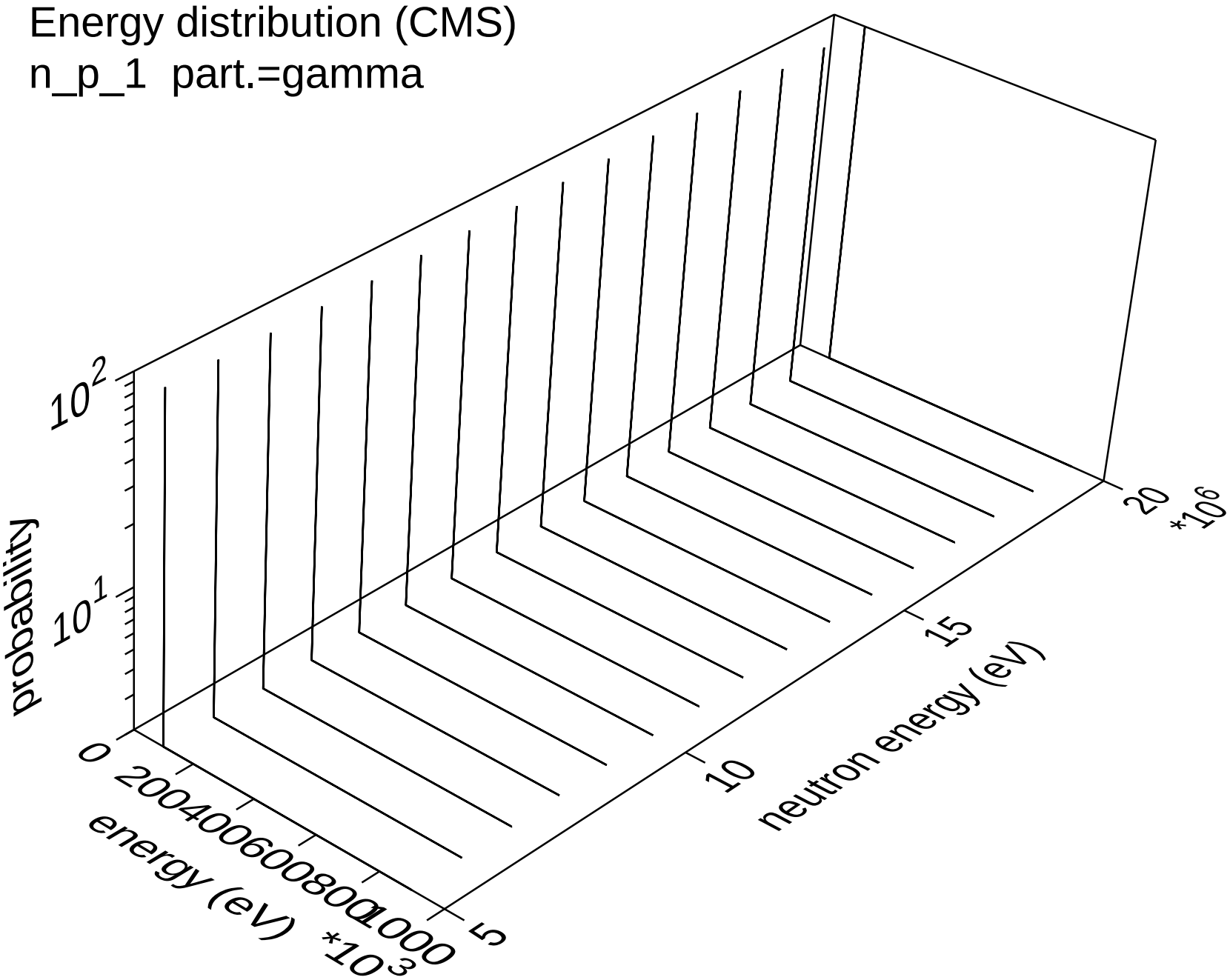

Energy distribution (CMS)
n_n_16 part.=gamma
probability
10^0
10^{-2}
0
2
4
6
8
energy (eV)
*10^6
5
10
15
20
neutron energy (eV)
*10^6

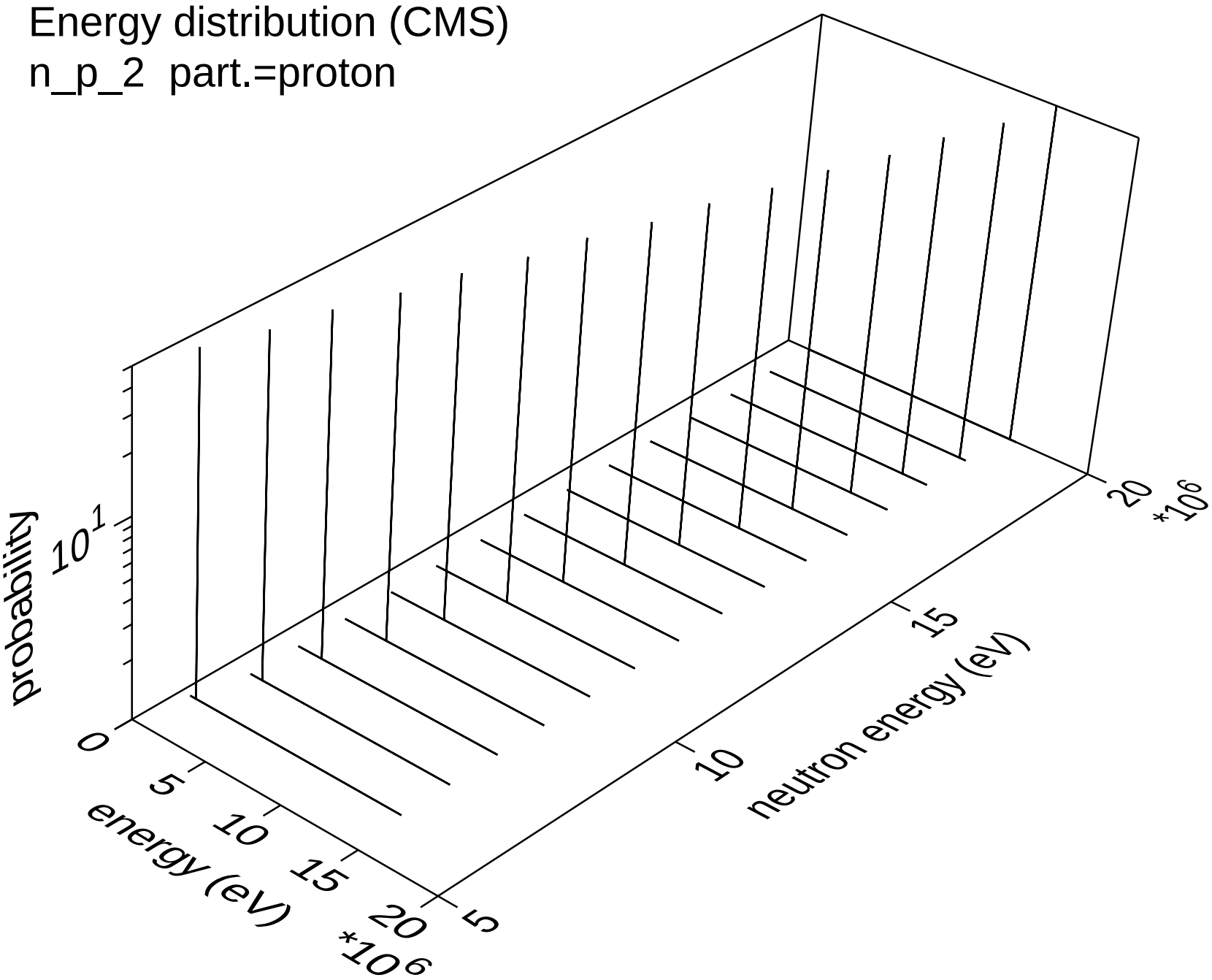

Energy distribution (CMS)
n_n_cont part.=neutron
probability
10^{1}
10^{-1}
0
5
10
15
energy (eV)
*10^6
10
15
20
neutron energy (eV)
*10^6

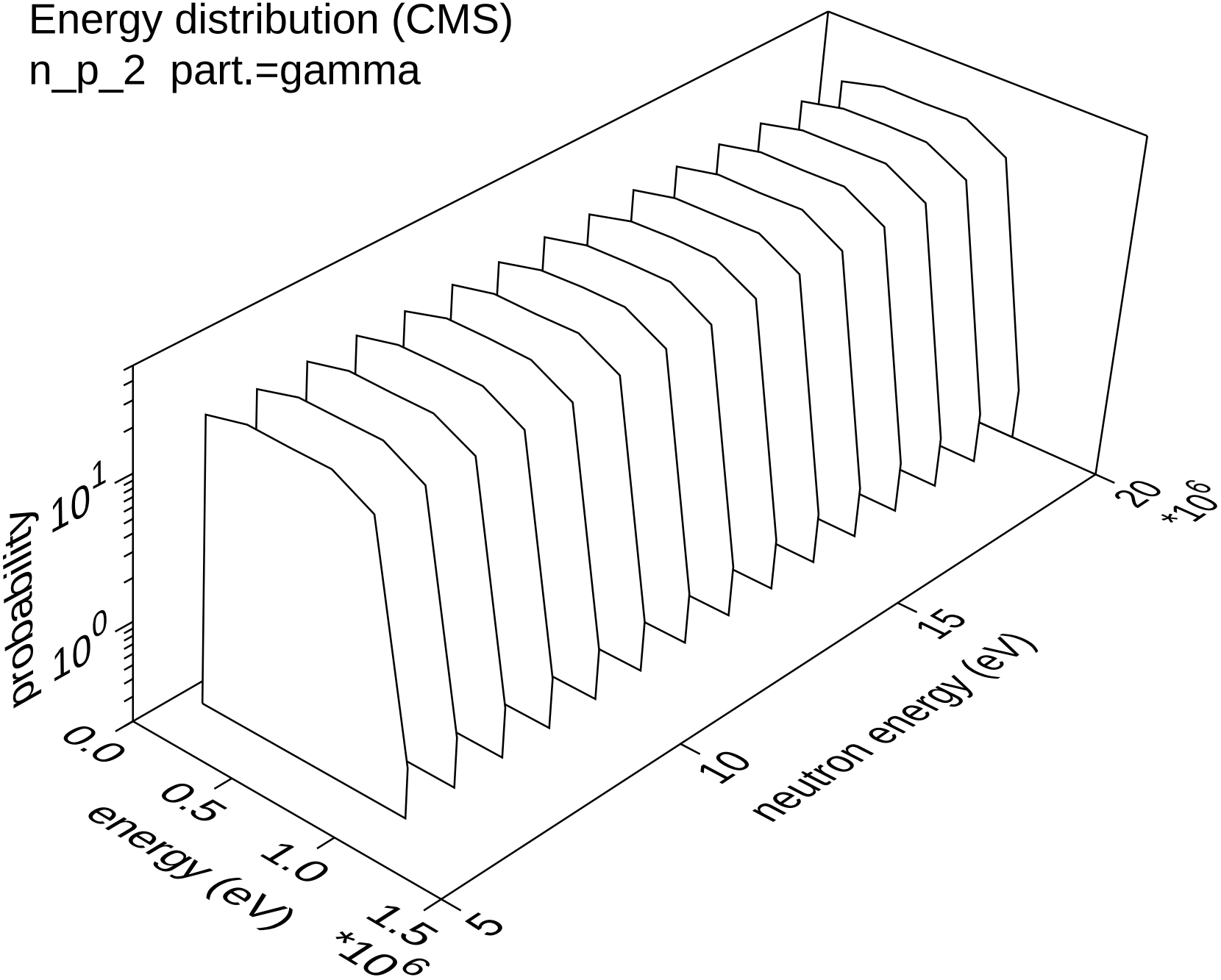

Energy distribution (CMS)
n_n_cont part.=gamma
probability
10^0
10^{-2}
0
2
4
6
8
10
*10^6
energy (eV)
10
15
20
*10^6
neutron energy (eV)

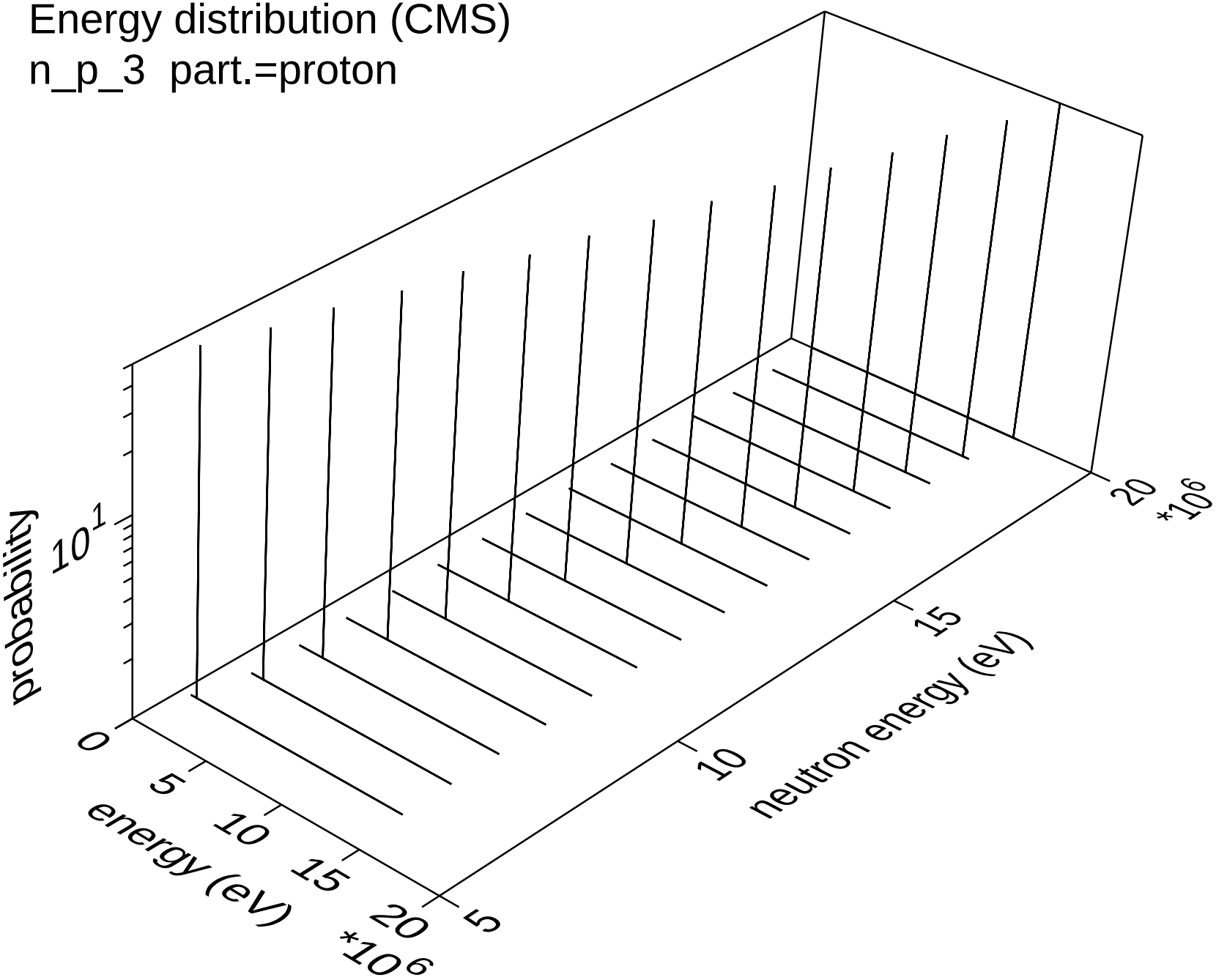

Energy distribution (CMS)
n_p_0
probability
10^{-1}
0
energy (eV)
5
10
15
20
*10^6
5
10
15
20
*10^6
neutron energy (eV)

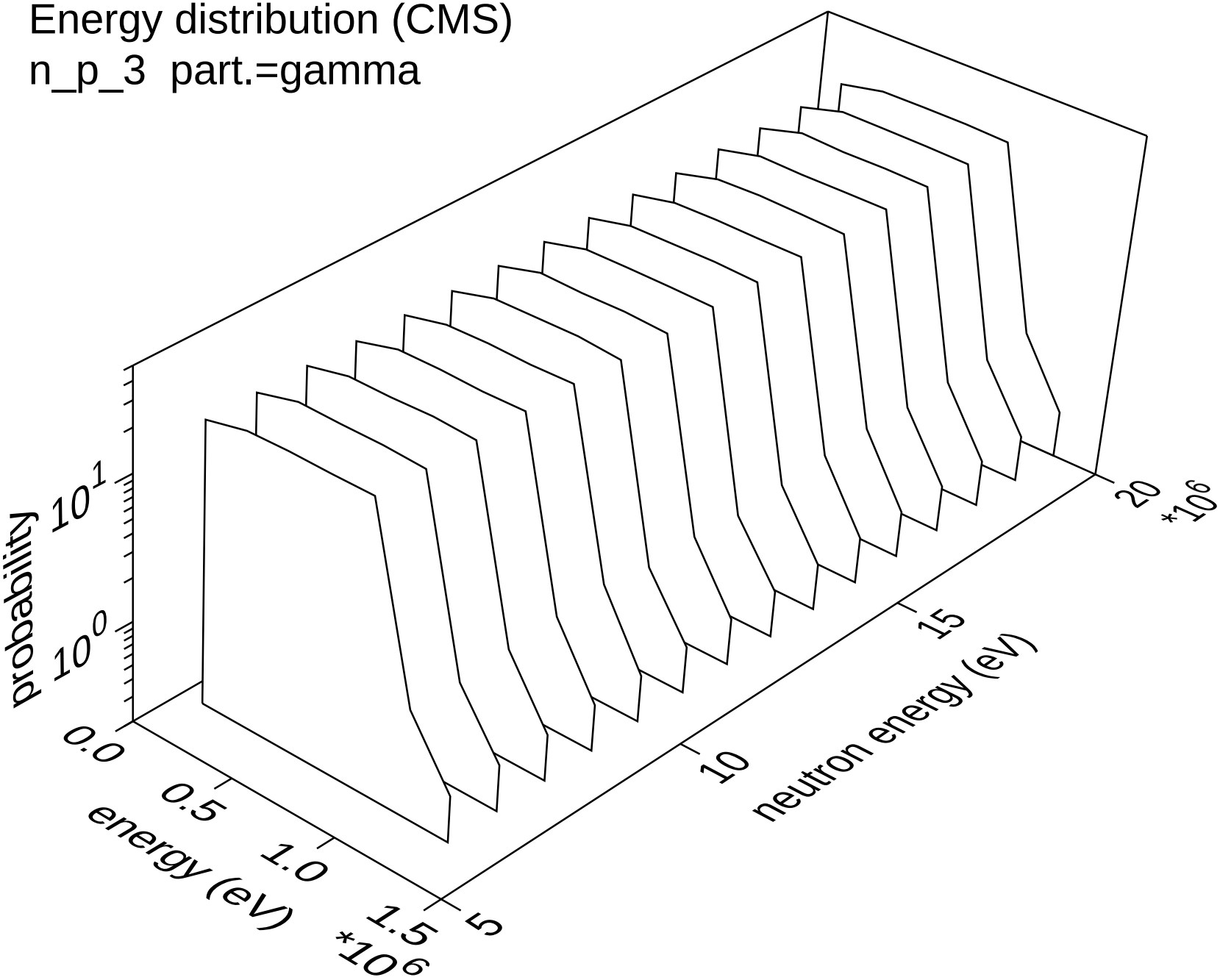

Energy distribution (CMS)
n_p_1 part.=proton
probability
10^{-1}
0
5
10
15
20
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

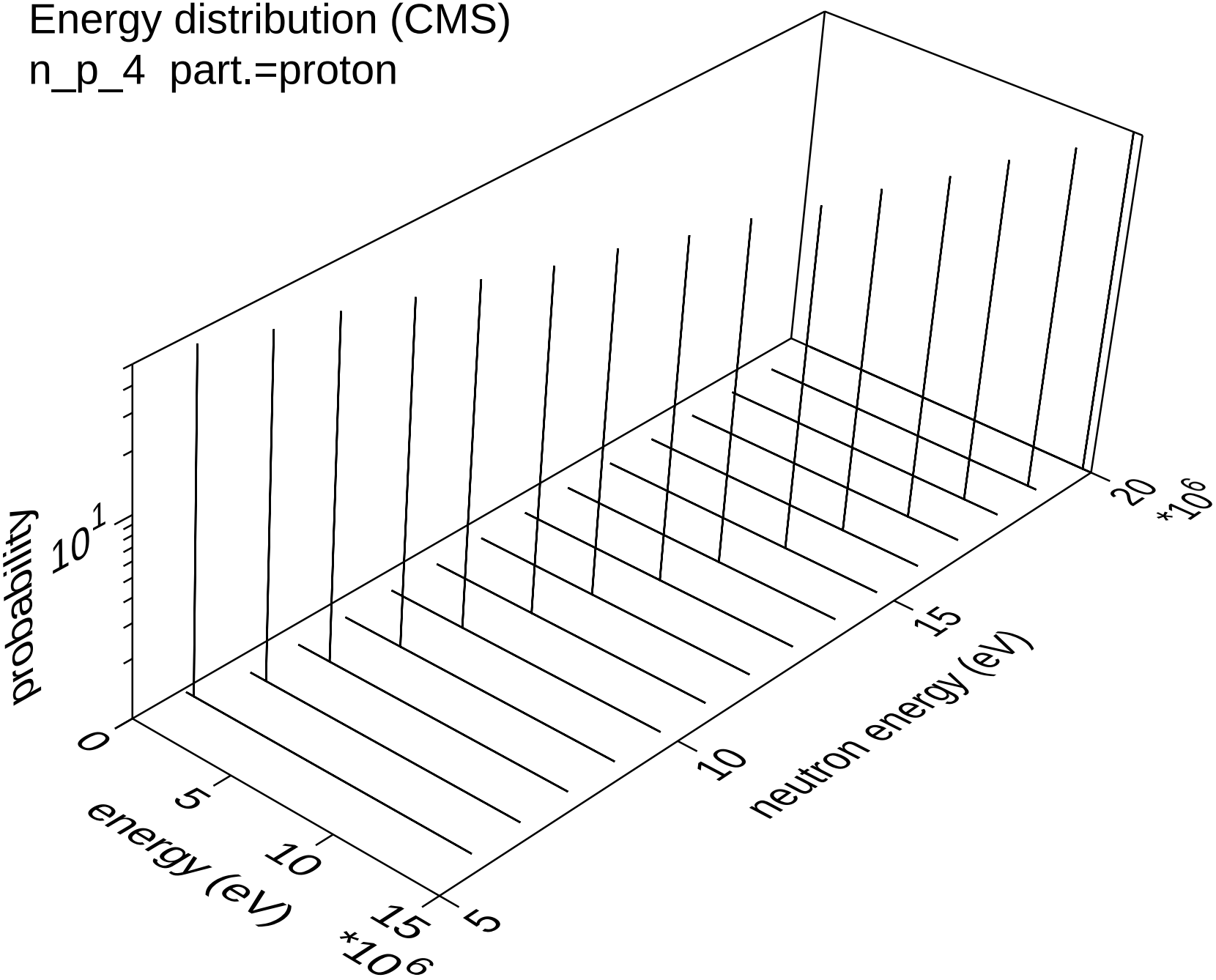

Energy distribution (CMS)
n_p_1 part.=gamma
probability
10^2
10^1
0
200
400
600
800
1000
energy (eV) *10^3
5
10
15
20
neutron energy (eV) *10^6

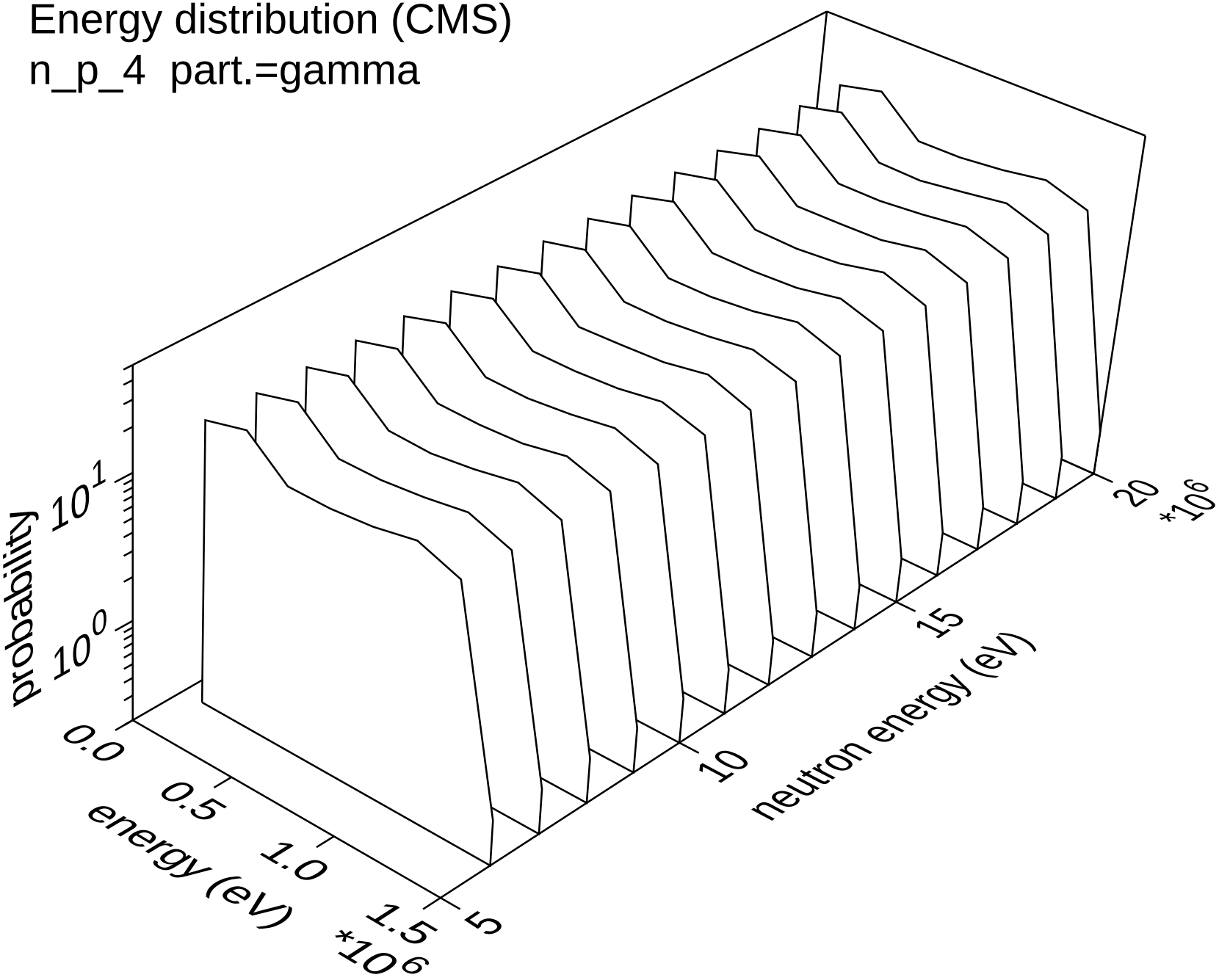

Energy distribution (CMS)
n_p_2 part.=proton
probability
10^{1}
0
5
10
15
20
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

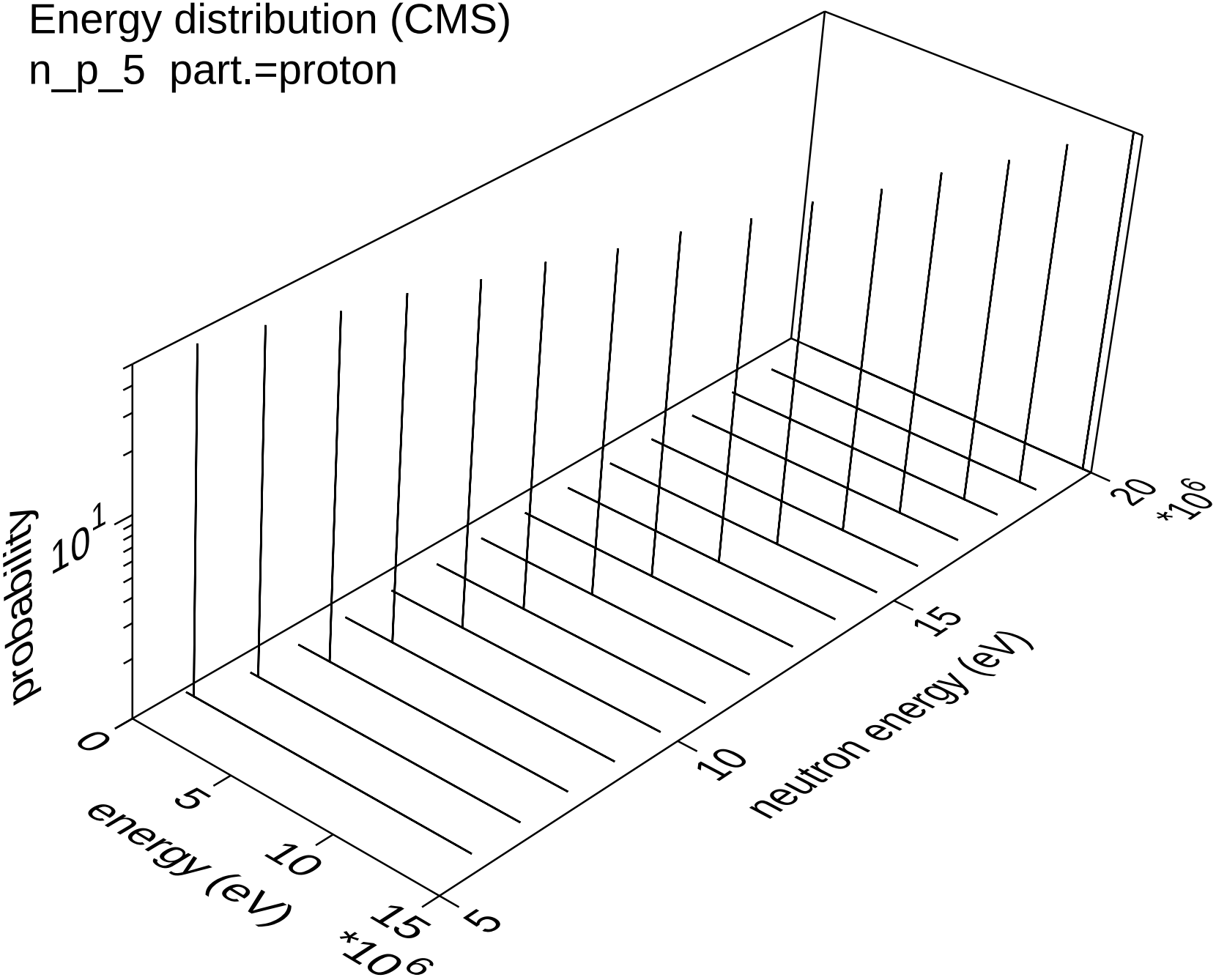

Energy distribution (CMS)
n_p_2 part.=gamma
probability
10^1
10^0
0.0
0.5
1.0
1.5
energy (eV)
*10^6
5
10
15
20
neutron energy (eV)
*10^6

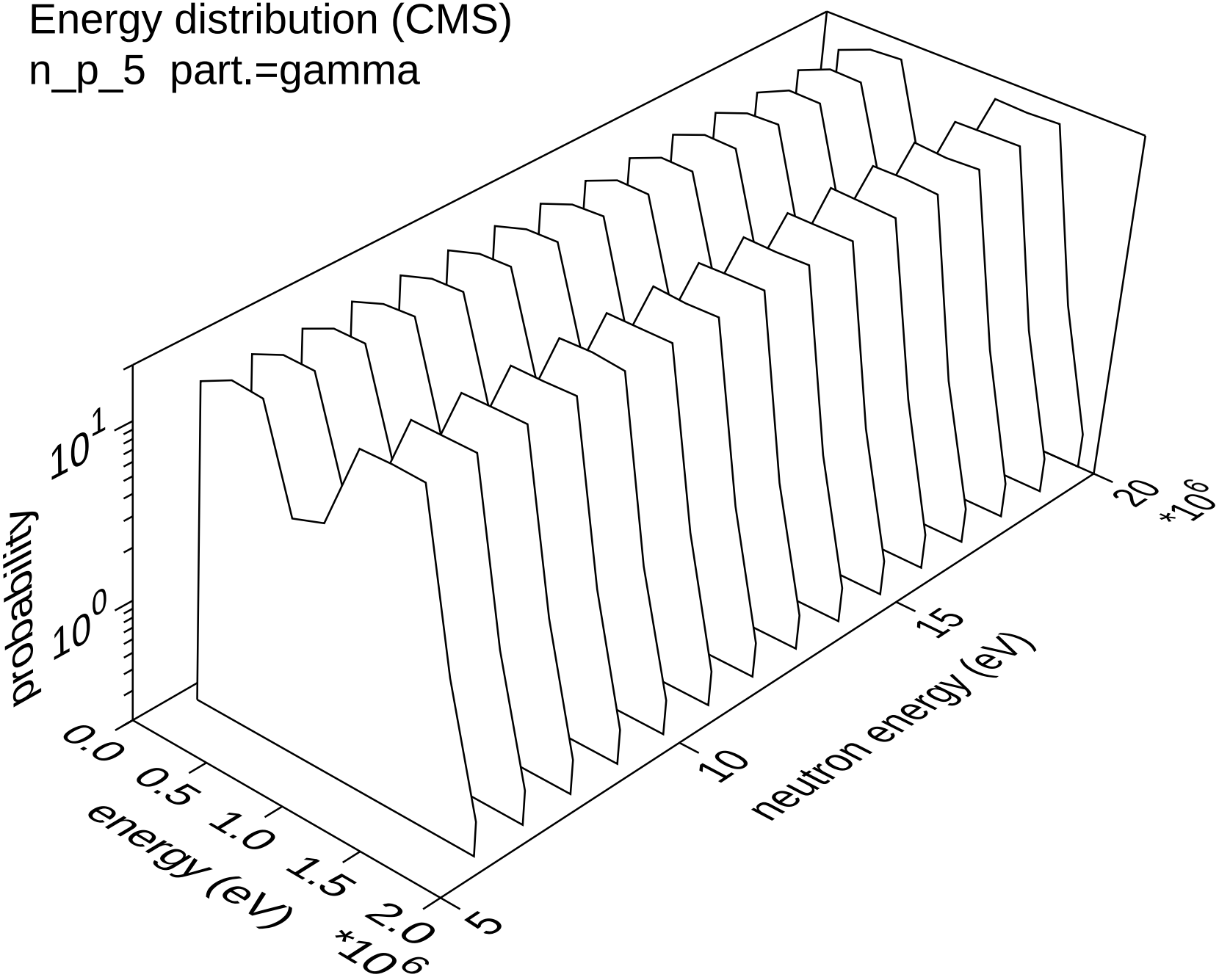

Energy distribution (CMS)
n_p_3 part.=proton
probability
10^{1}
0
5
10
15
20
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

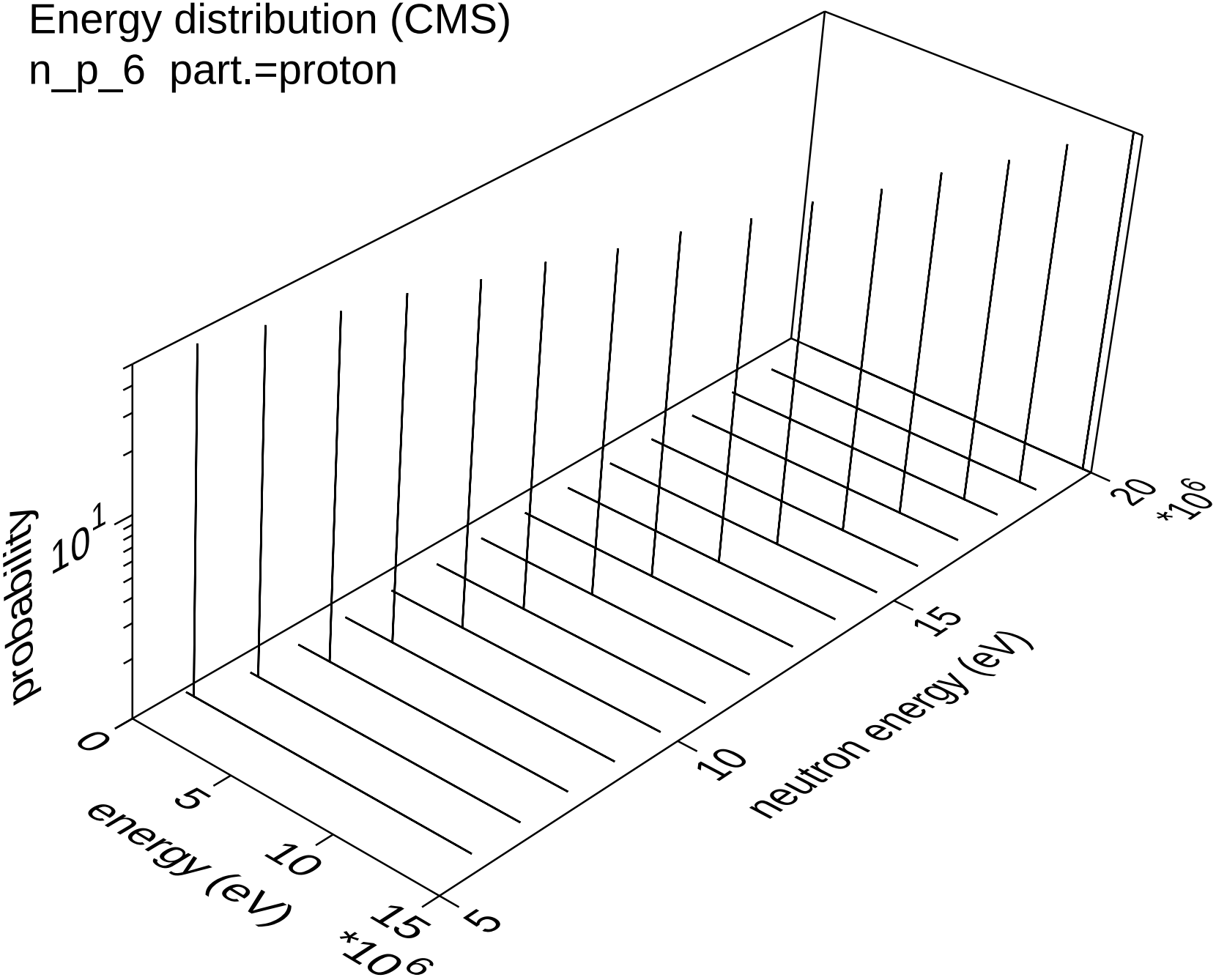

Energy distribution (CMS)
n_p_3 part.=gamma
probability
10^1
10^0
0.0
0.5
1.0
1.5
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

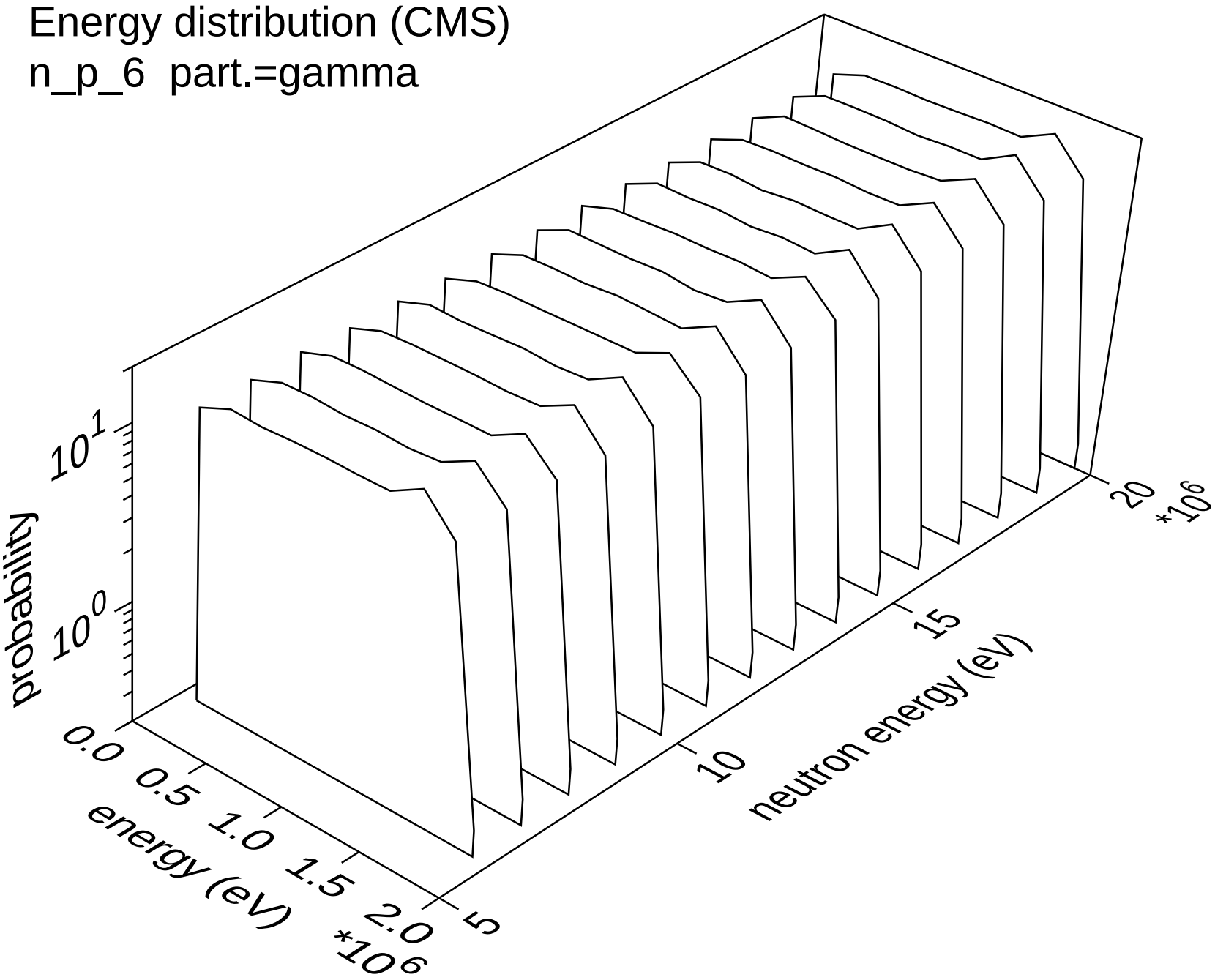

Energy distribution (CMS)
n_p_4 part.=proton
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

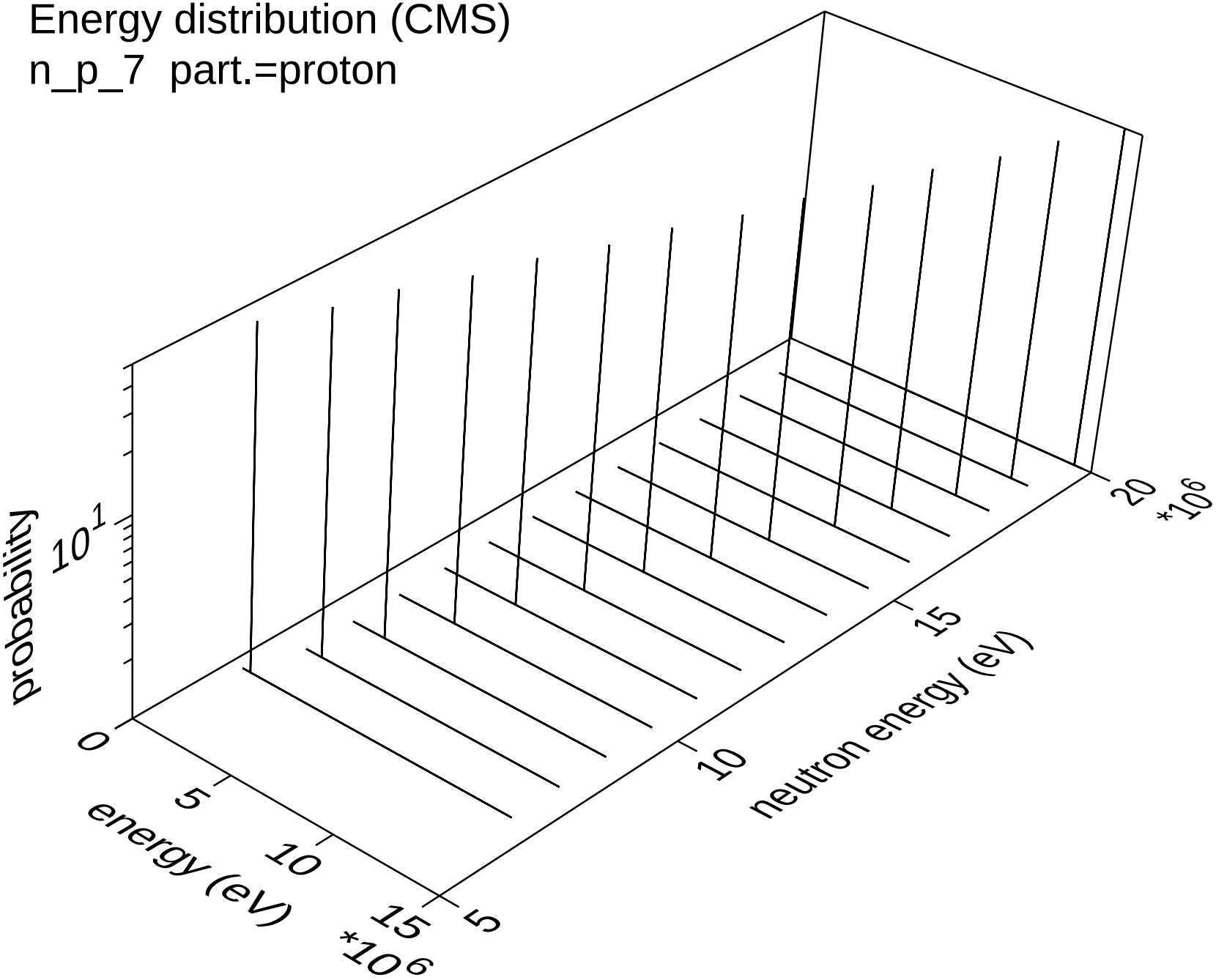

Energy distribution (CMS)
n_p_4 part.=gamma
probability
10^1
10^0
0.0
0.5
1.0
1.5
energy (eV)
*10^6
5
10
15
20
neutron energy (eV)
*10^6

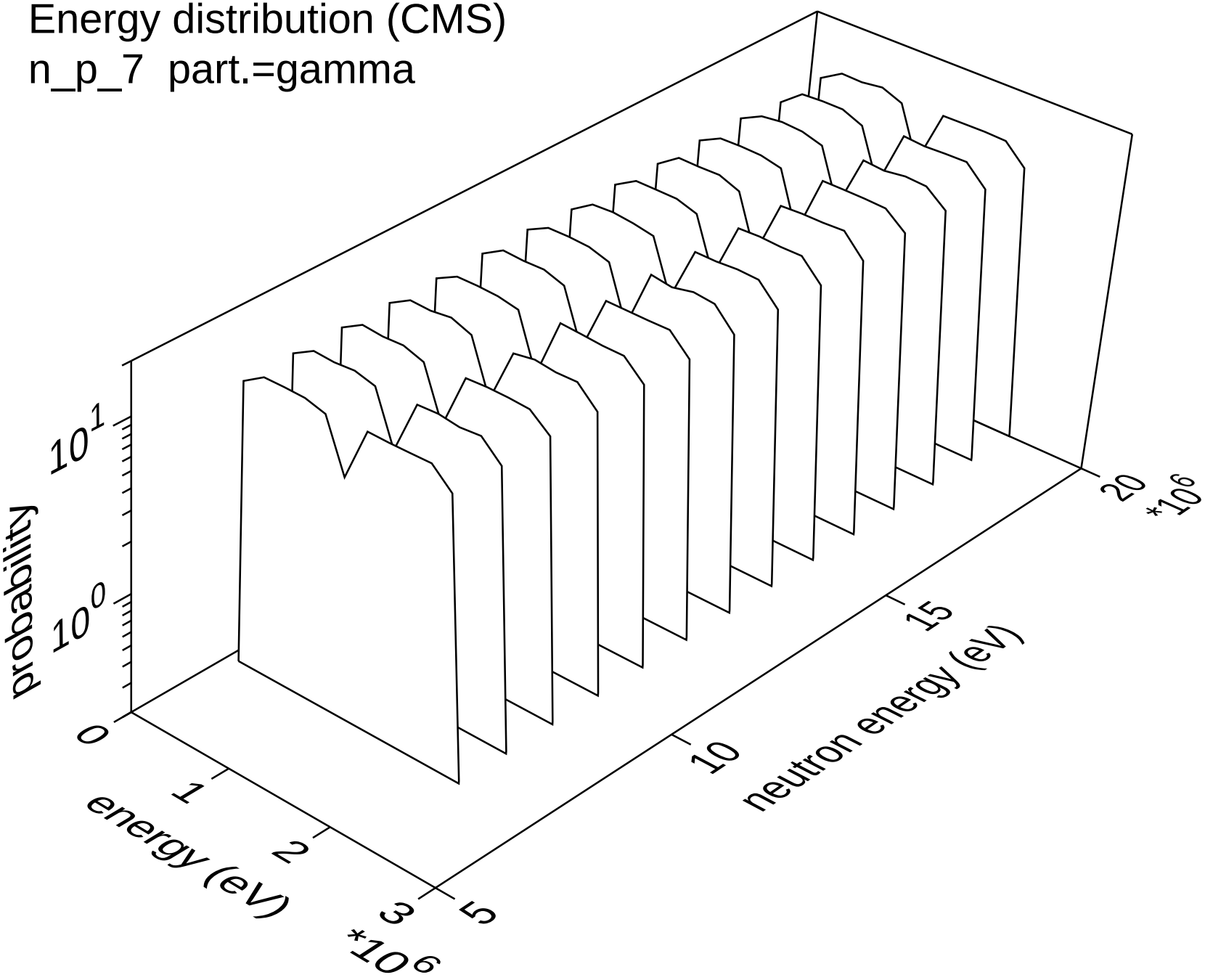

Energy distribution (CMS)
n_p_5 part.=proton
probability
10^1
0
5
10
15
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

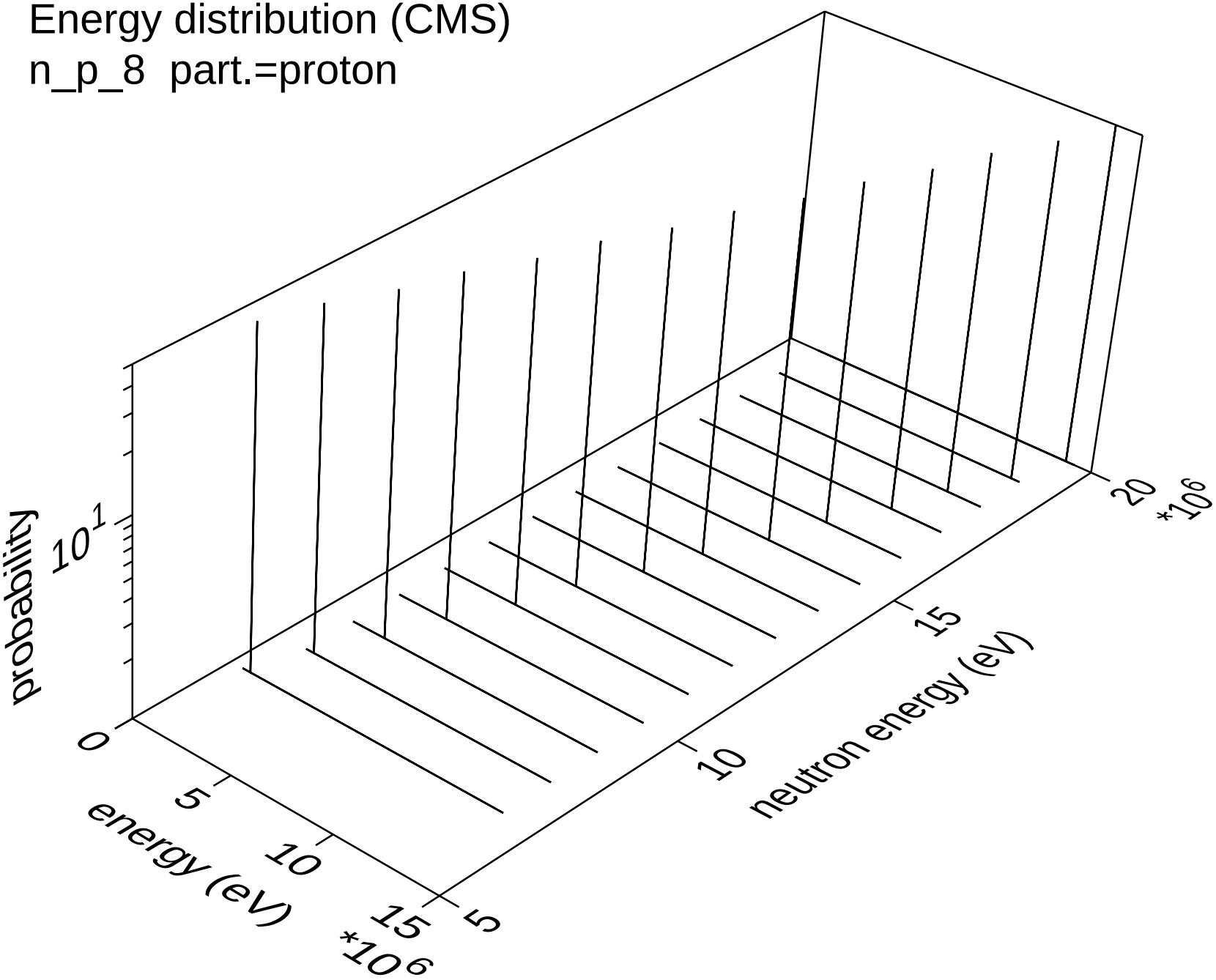

Energy distribution (CMS)
n_p_5 part.=gamma
probability
10^1
10^0
0.0
0.5
1.0
1.5
2.0
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

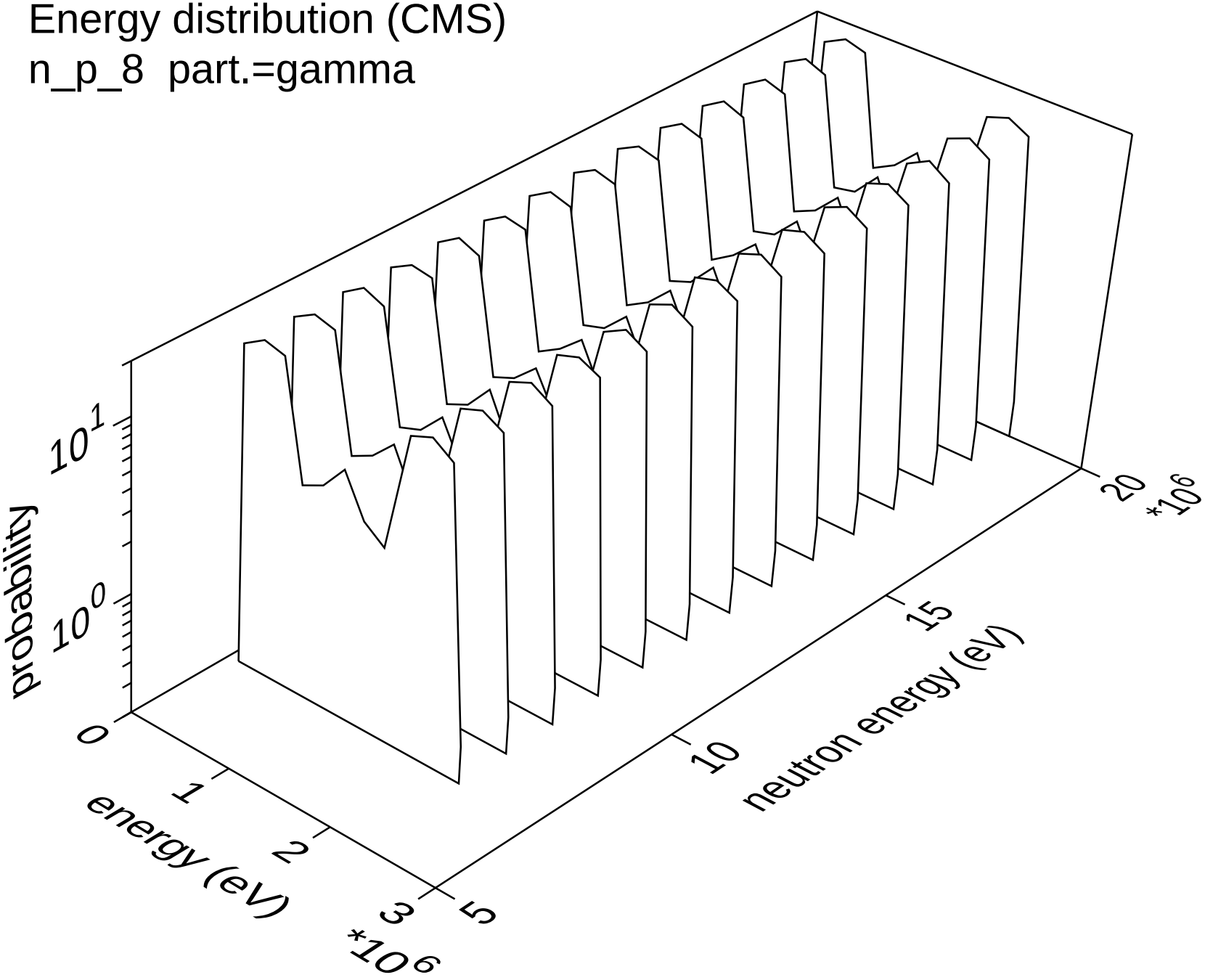

Energy distribution (CMS)
n_p_6 part.=proton
probability
10^{1}
0
5
10
15
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

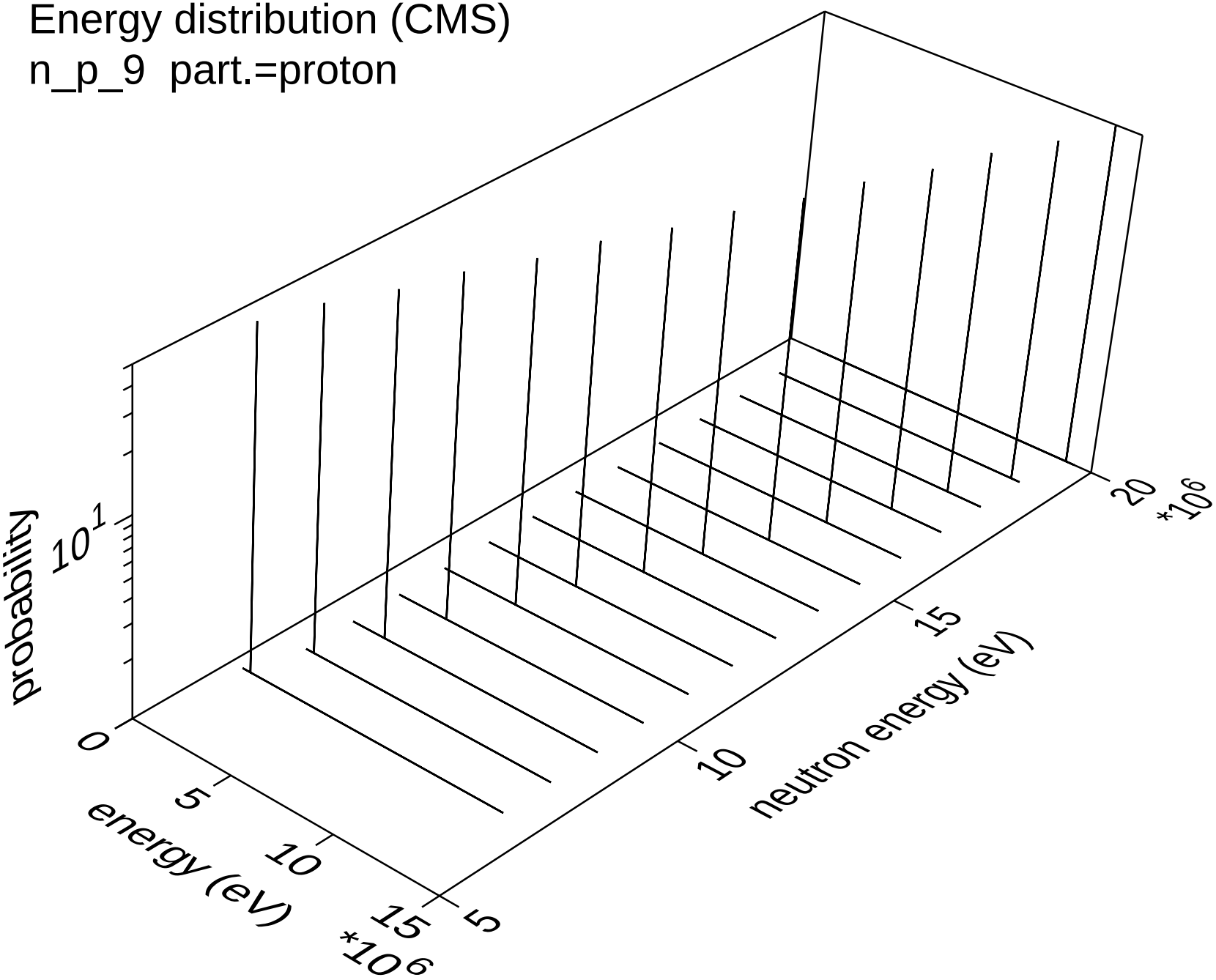

Energy distribution (CMS)
n_p_6 part.=gamma
probability
10^1
10^0
0.0
0.5
1.0
1.5
2.0
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

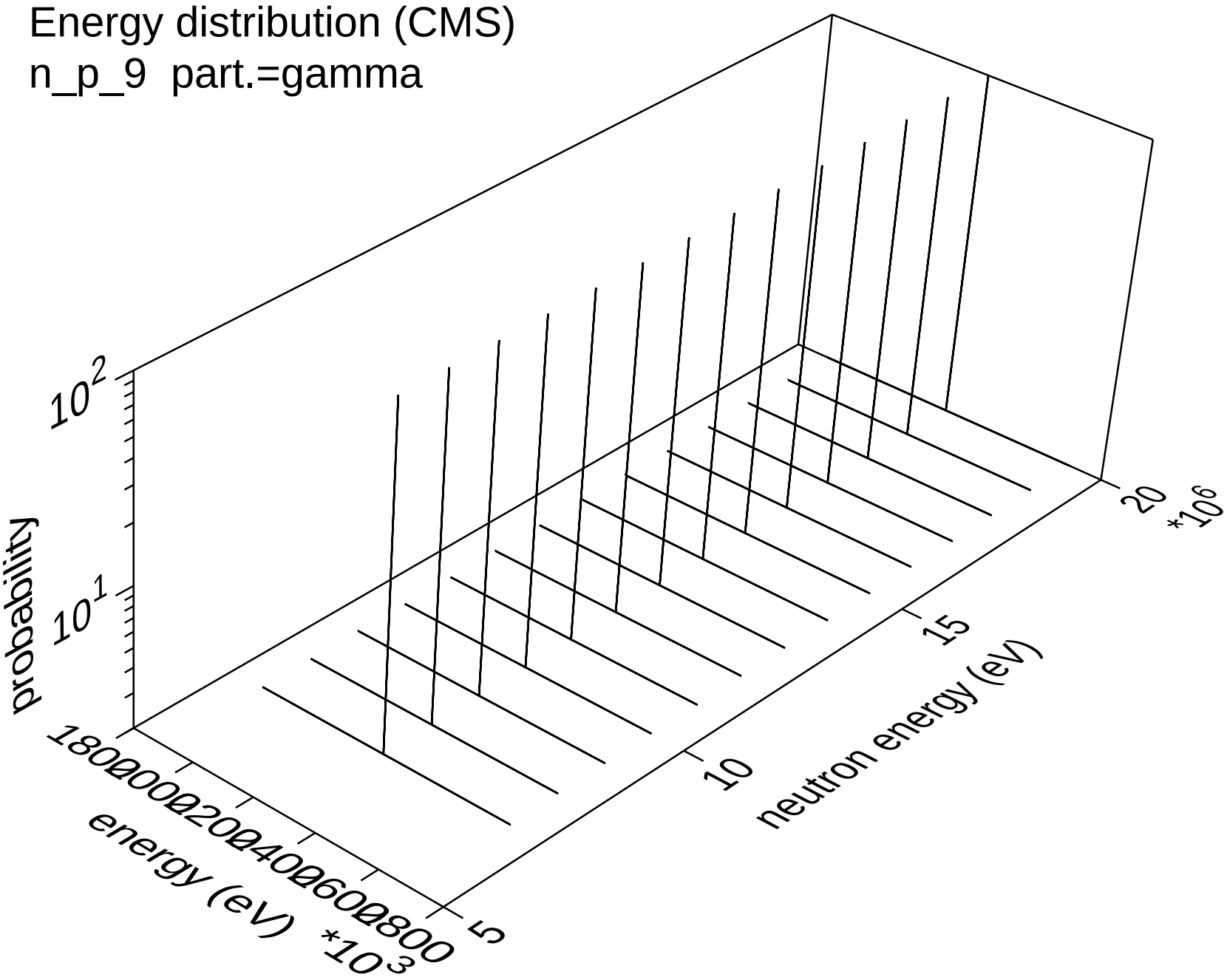

Energy distribution (CMS)
n_p_7 part.=proton
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

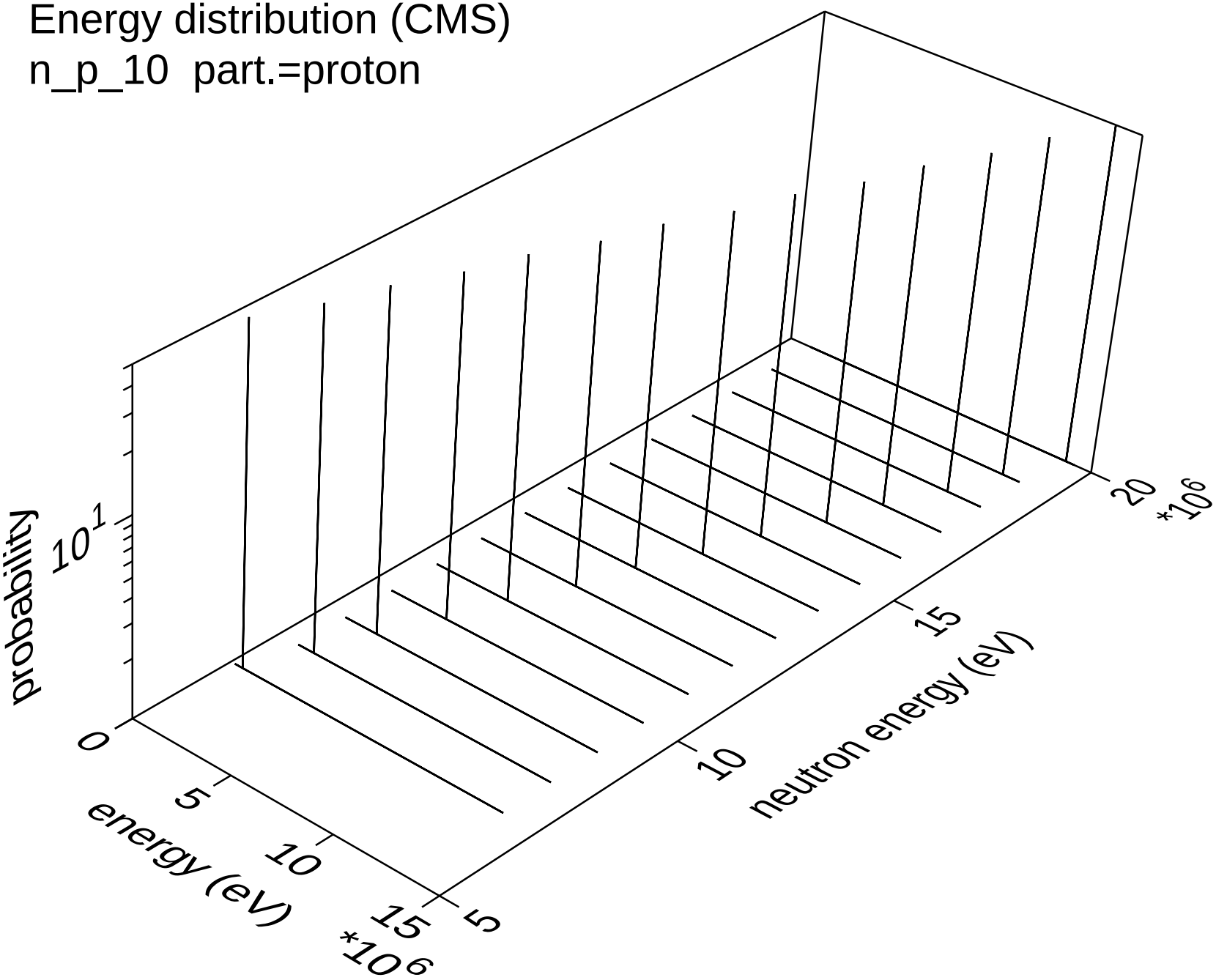

Energy distribution (CMS)
n_p_7 part.=gamma
probability
10^1
10^0
0
energy (eV)
1
2
3
*10 6
5
10
15
neutron energy (eV)
20
*10 6

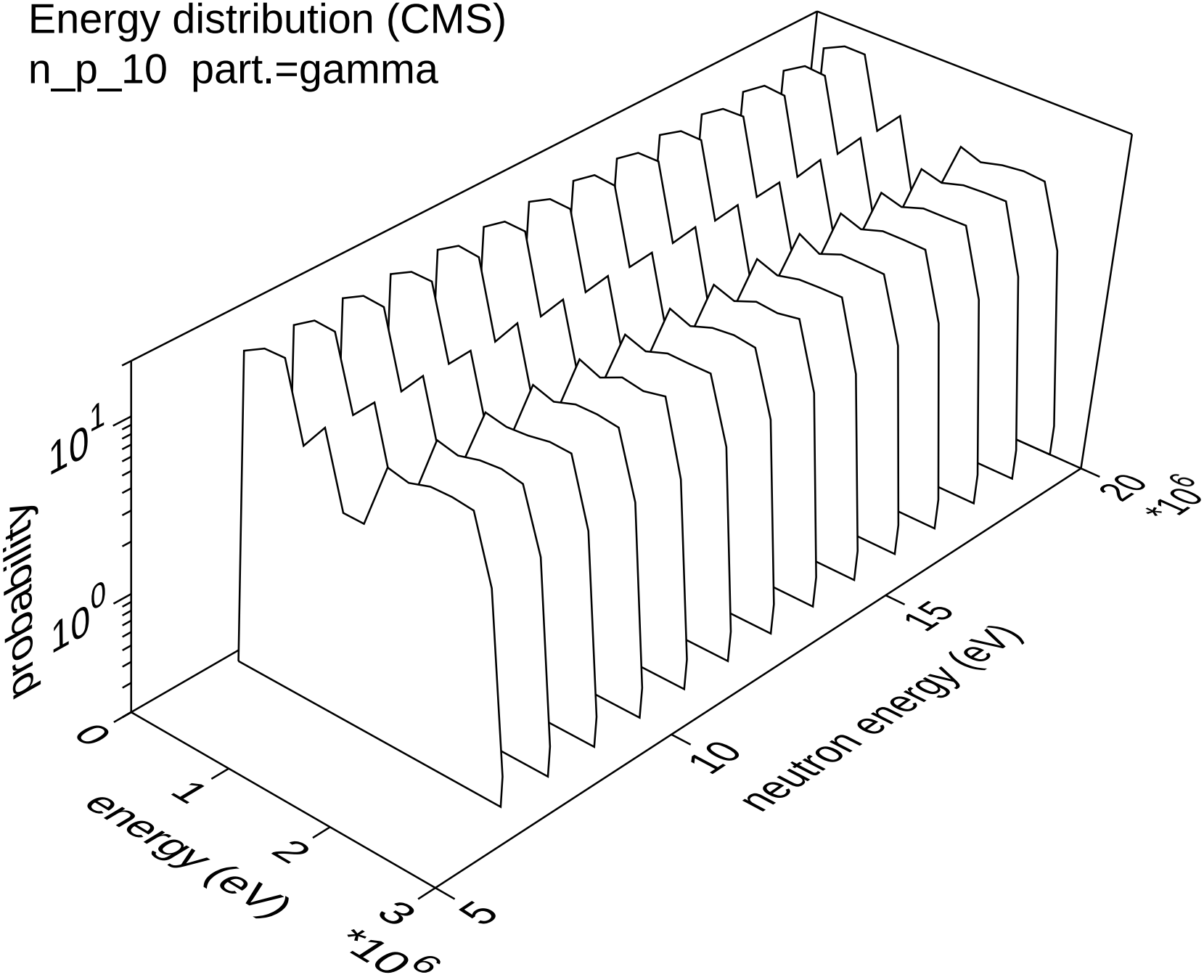

Energy distribution (CMS)
n_p_8 part.=proton
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

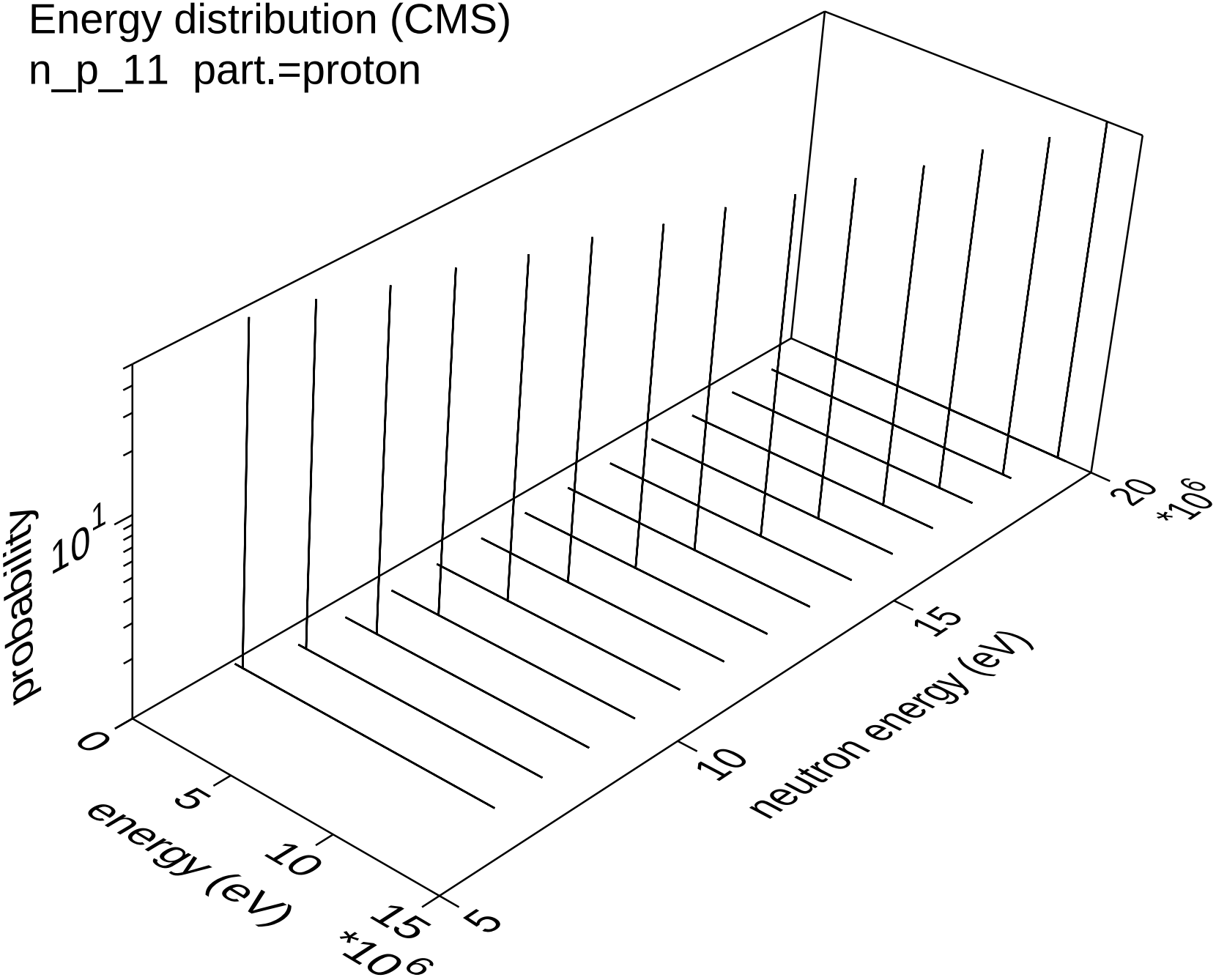

Energy distribution (CMS)
n_p_8 part.=gamma
probability
10^1
10^0
0
energy (eV)
1
2
3
*10 6
5
10
15
neutron energy (eV)
20
*10^6

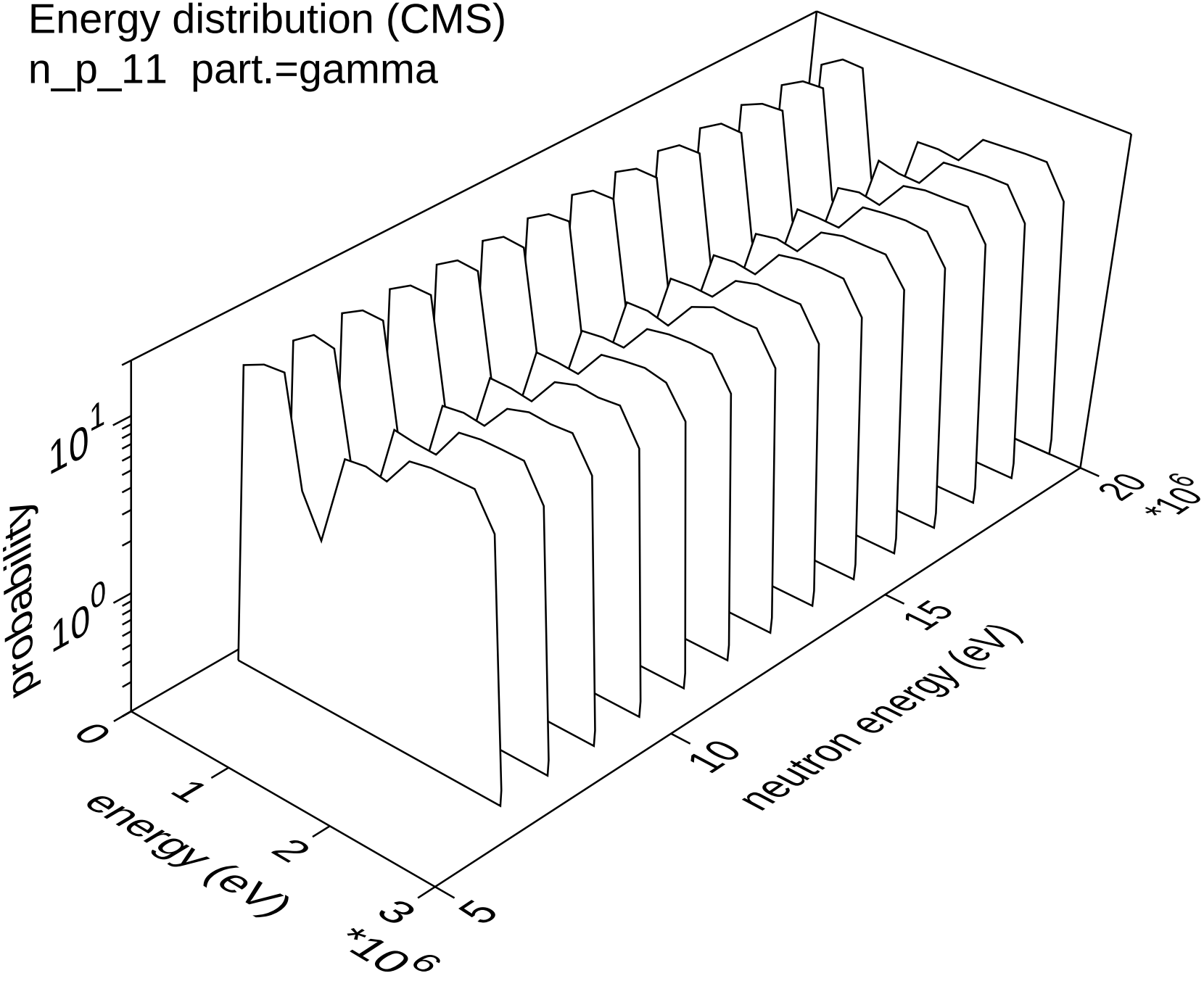

Energy distribution (CMS)
n_p_9 part.=proton
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

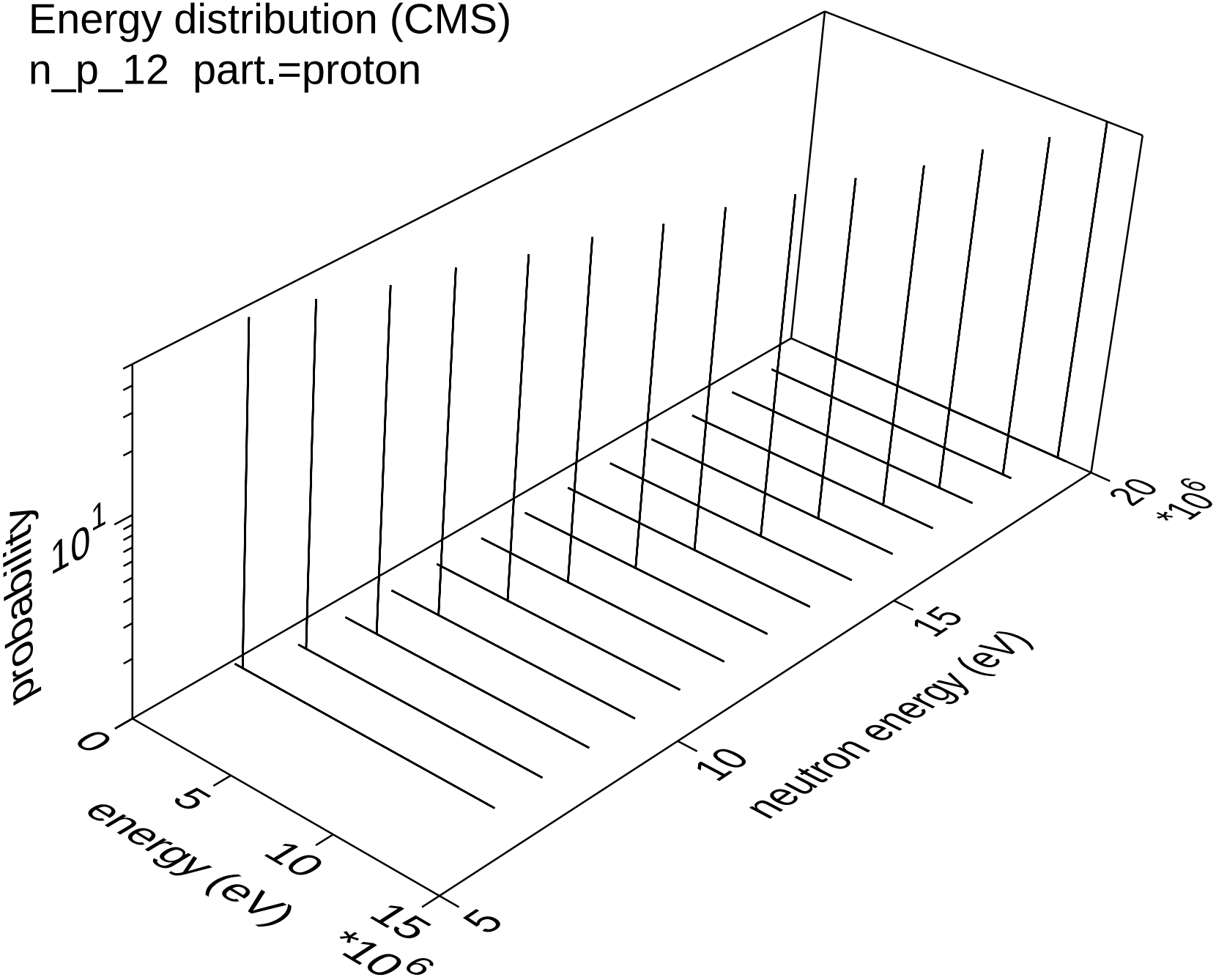

Energy distribution (CMS)
n_p_9 part.=gamma
probability
10^2
10^1
energy (eV) *10^3
0
200
400
600
800
neutron energy (eV)
5
10
15
20
*10^6

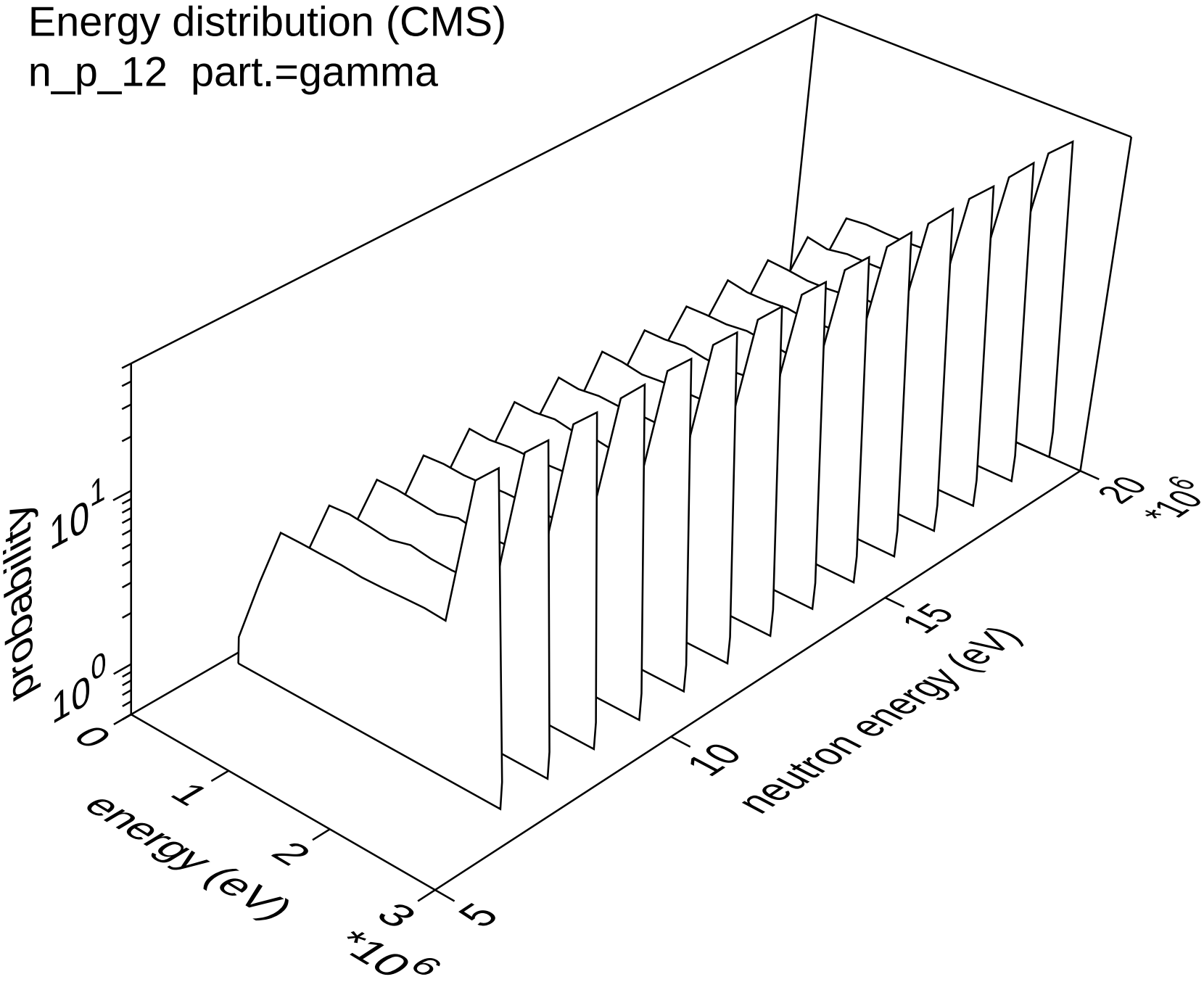

Energy distribution (CMS)
n_p_10 part.=proton
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

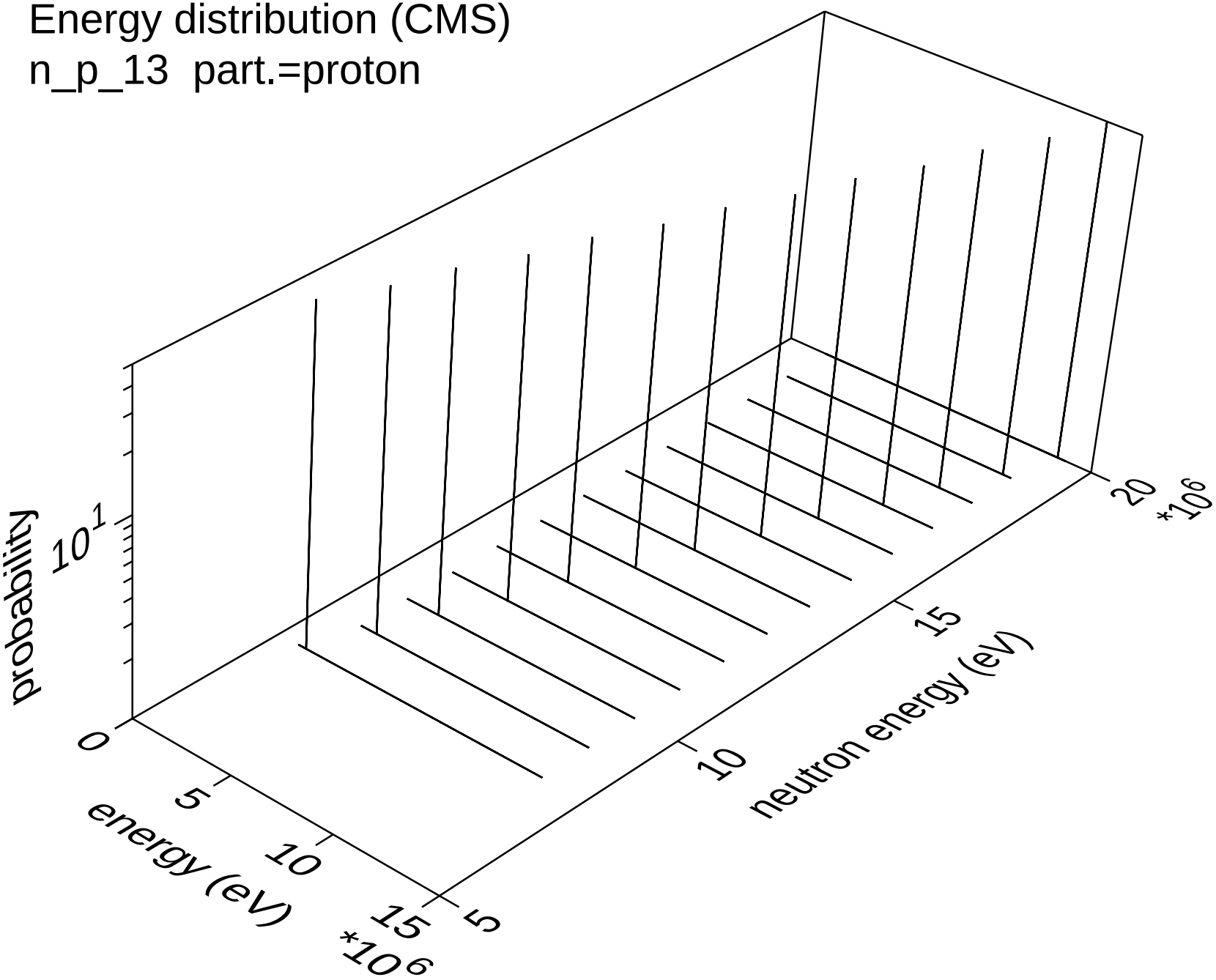

Energy distribution (CMS)
n_p_10 part.=gamma
probability
10^1
10^0
0
energy (eV)
1
2
3
*10 6
5
10
neutron energy (eV)
15
20
*10^6

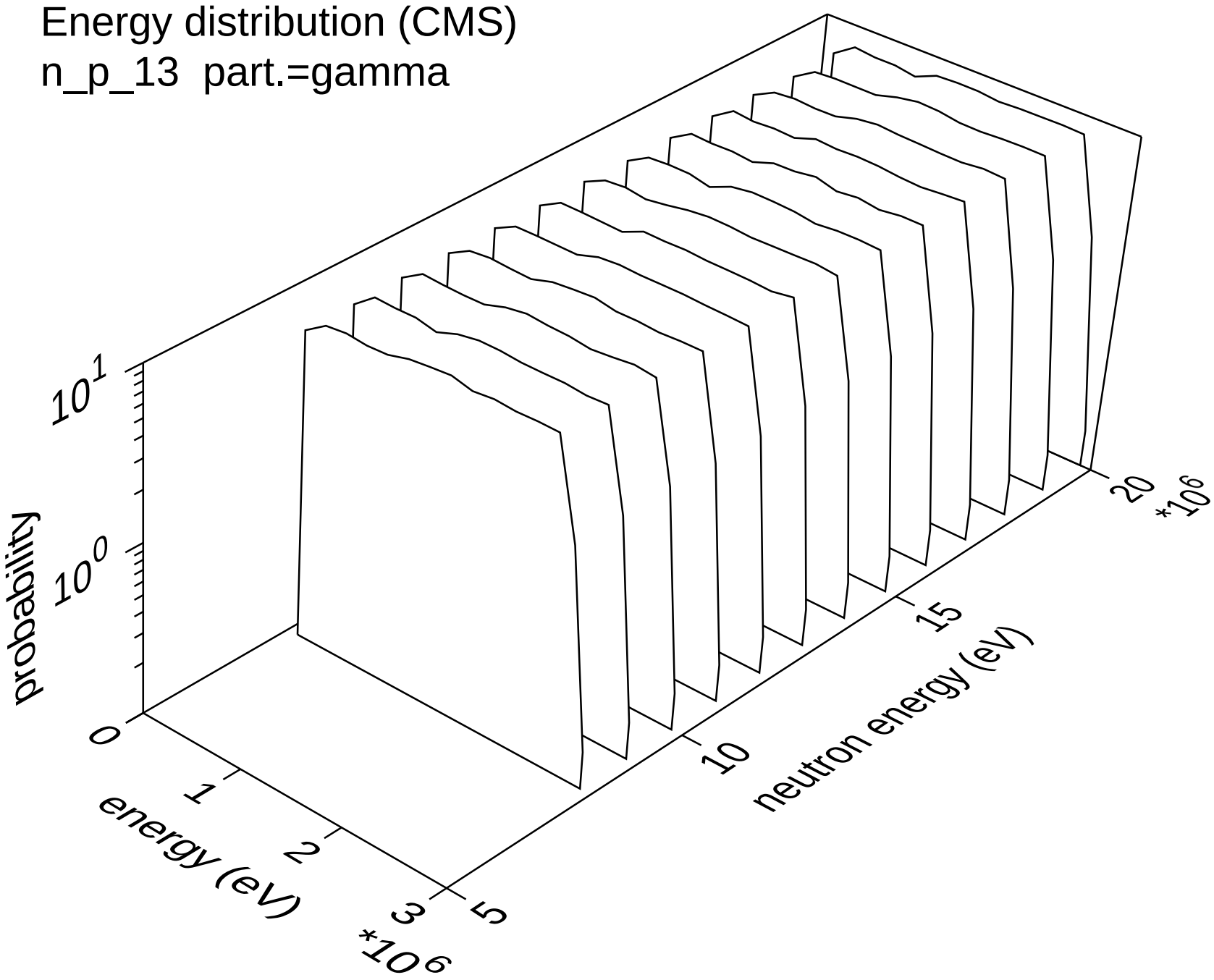

Energy distribution (CMS)
n_p_11 part.=proton
probability
10^{1}
0
5
10
15
*10⁶
energy (eV)
5
10
15
20
*10⁶
neutron energy (eV)

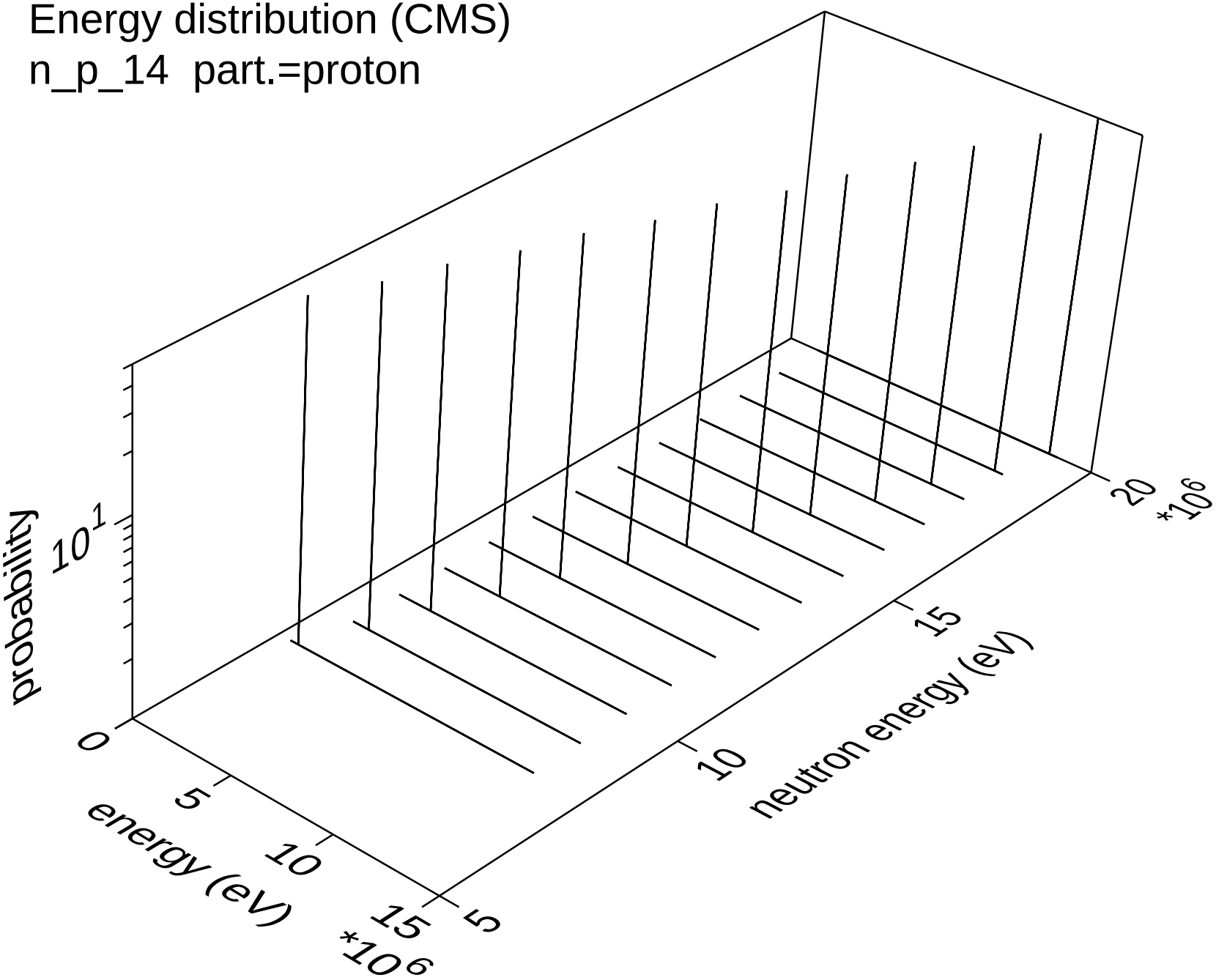

Energy distribution (CMS)
n_p_11 part.=gamma
probability
10^1
10^0
0
energy (eV)
1
2
3
*10 6
5
10
15
neutron energy (eV)
20
*10^6

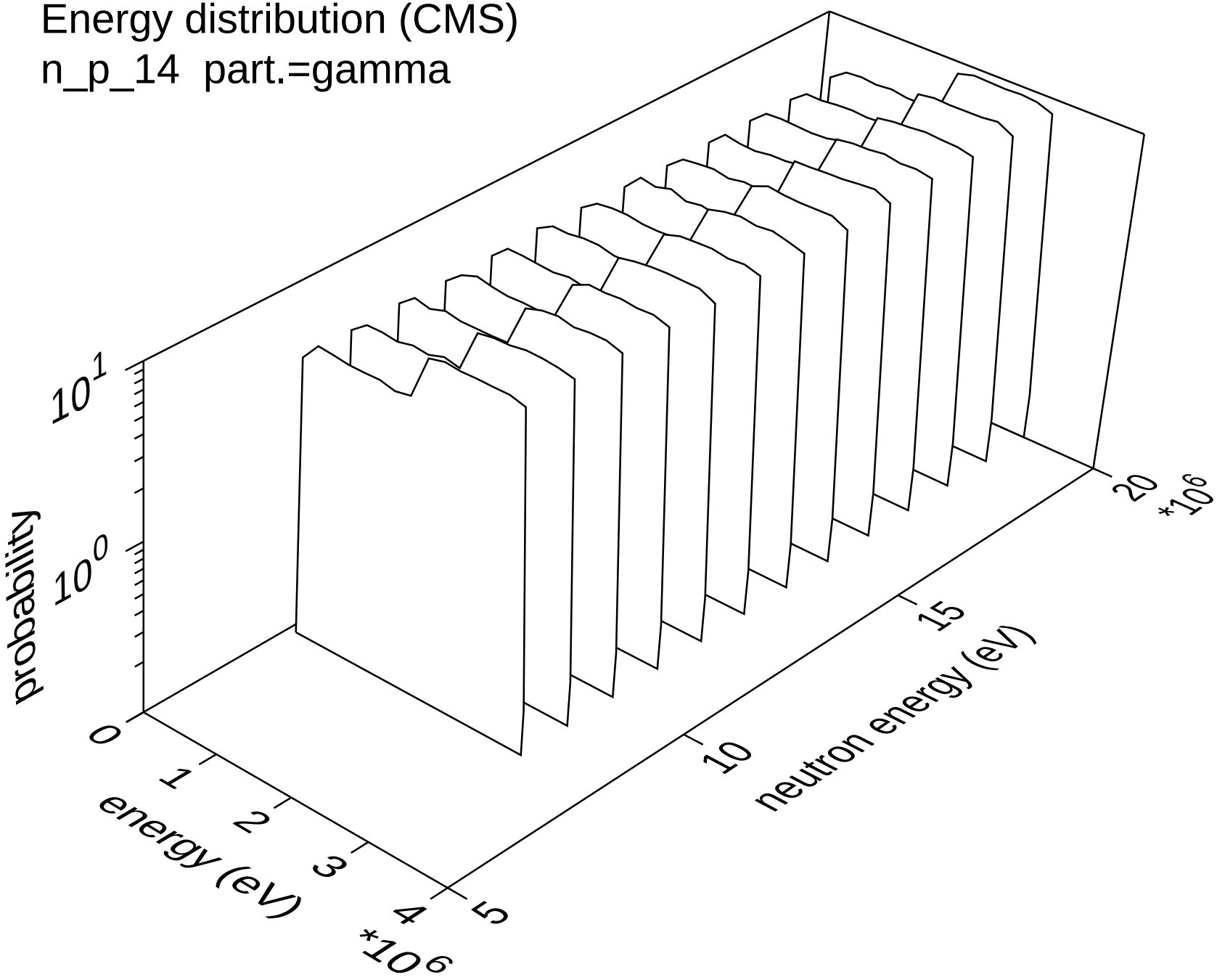

Energy distribution (CMS)
n_p_12 part.=proton
probability
10^{1}
0
5
10
15
*10⁶
energy (eV)
5
10
15
20
*10⁶
neutron energy (eV)

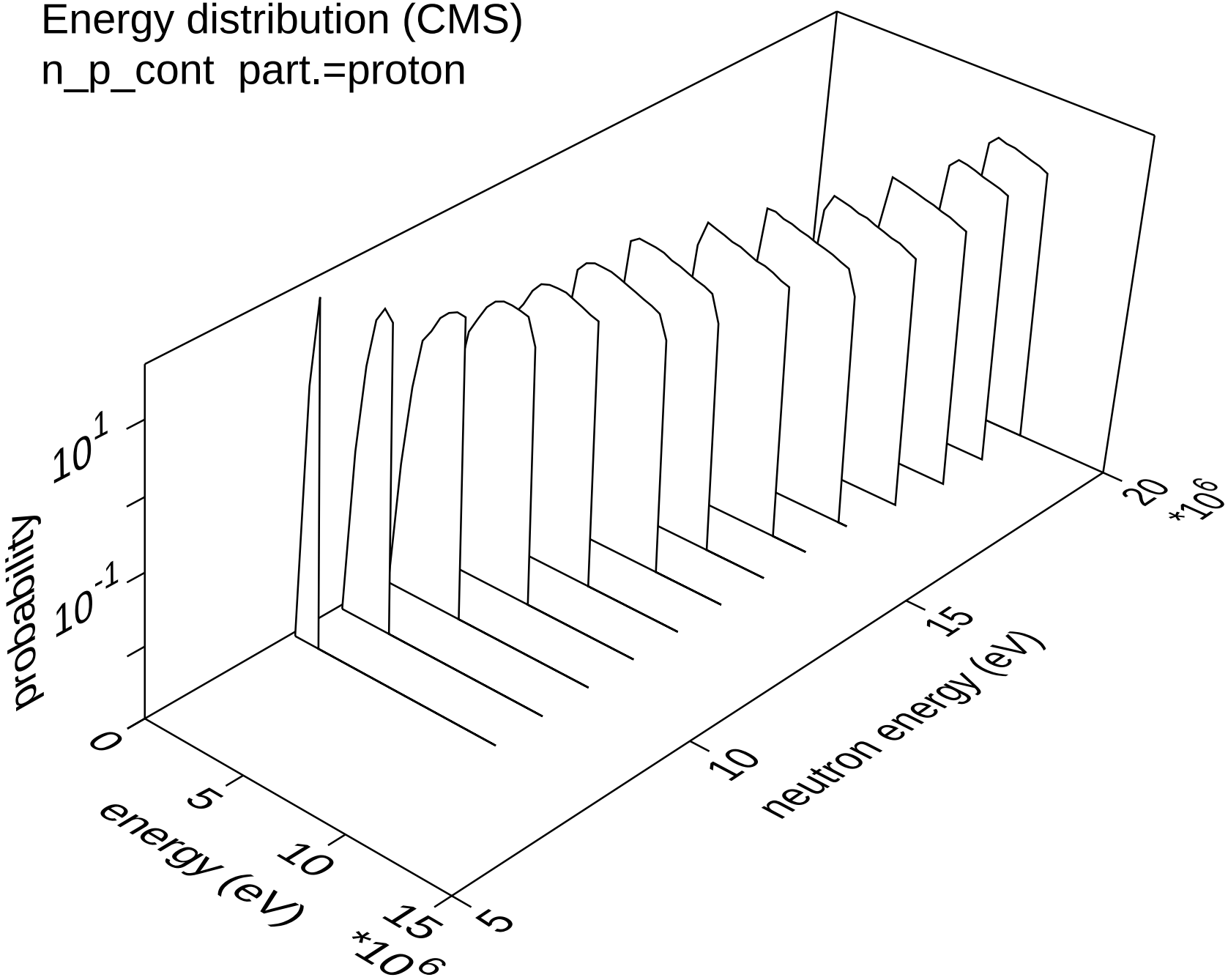

Energy distribution (CMS)
n_p_12 part.=gamma
probability
10^1
10^0
0
1
2
3
*10 6
energy (eV)
5
10
15
20
*10 6
neutron energy (eV)

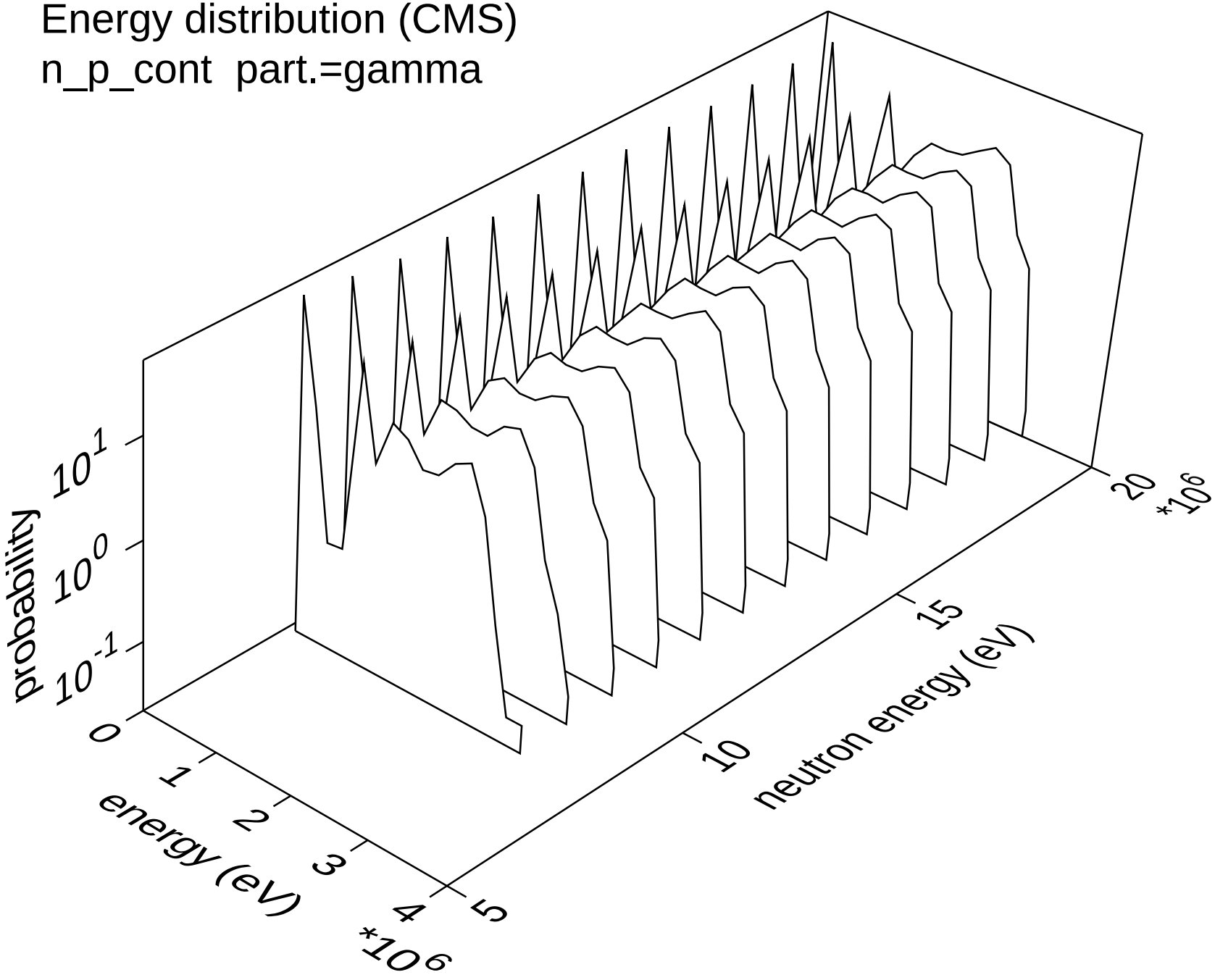

Energy distribution (CMS)
n_p_13 part.=proton
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

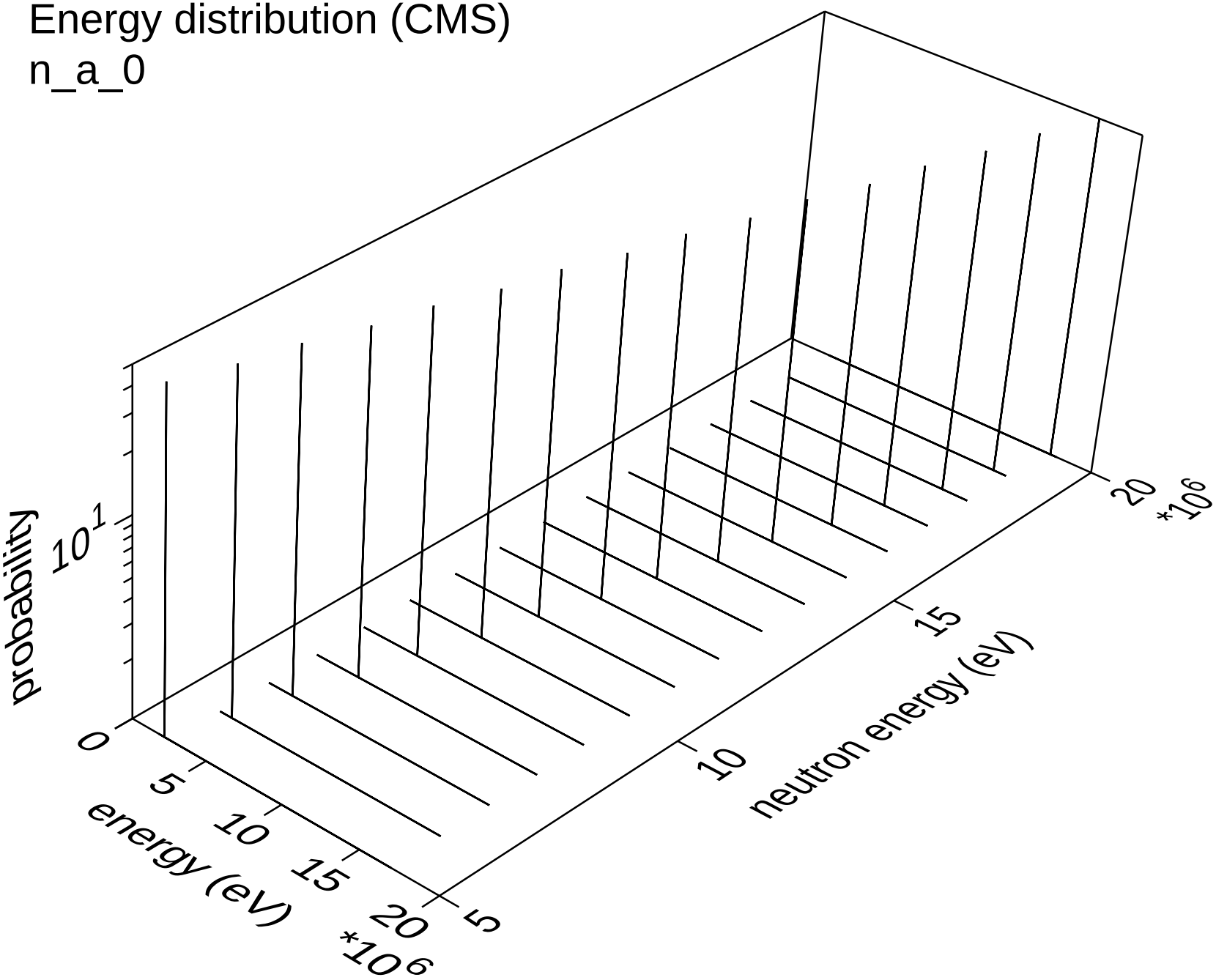

Energy distribution (CMS)
n_p_13 part.=gamma
probability
10^1
10^0
0
1
2
3
*10 6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

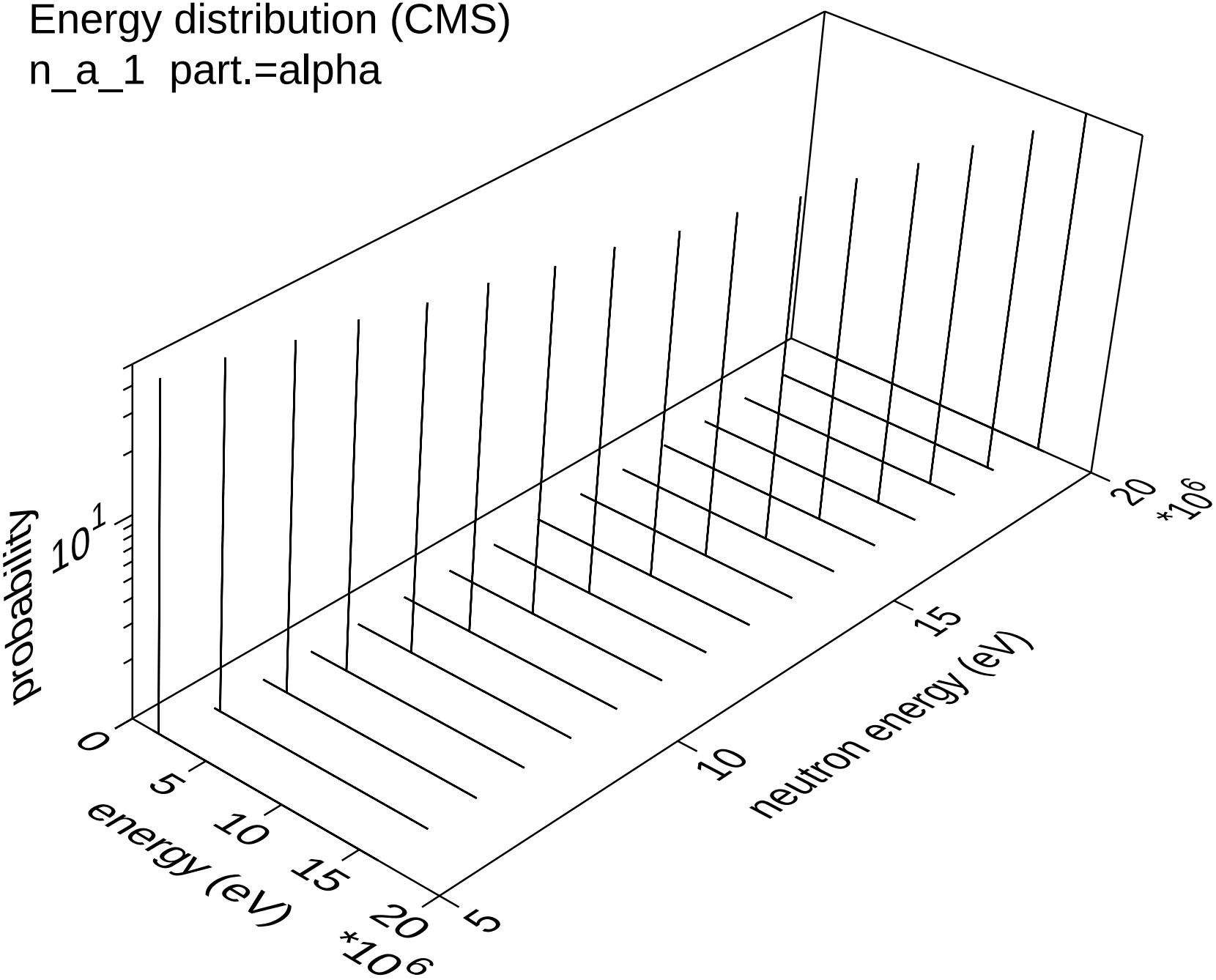

Energy distribution (CMS)
n_p_14 part.=proton
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

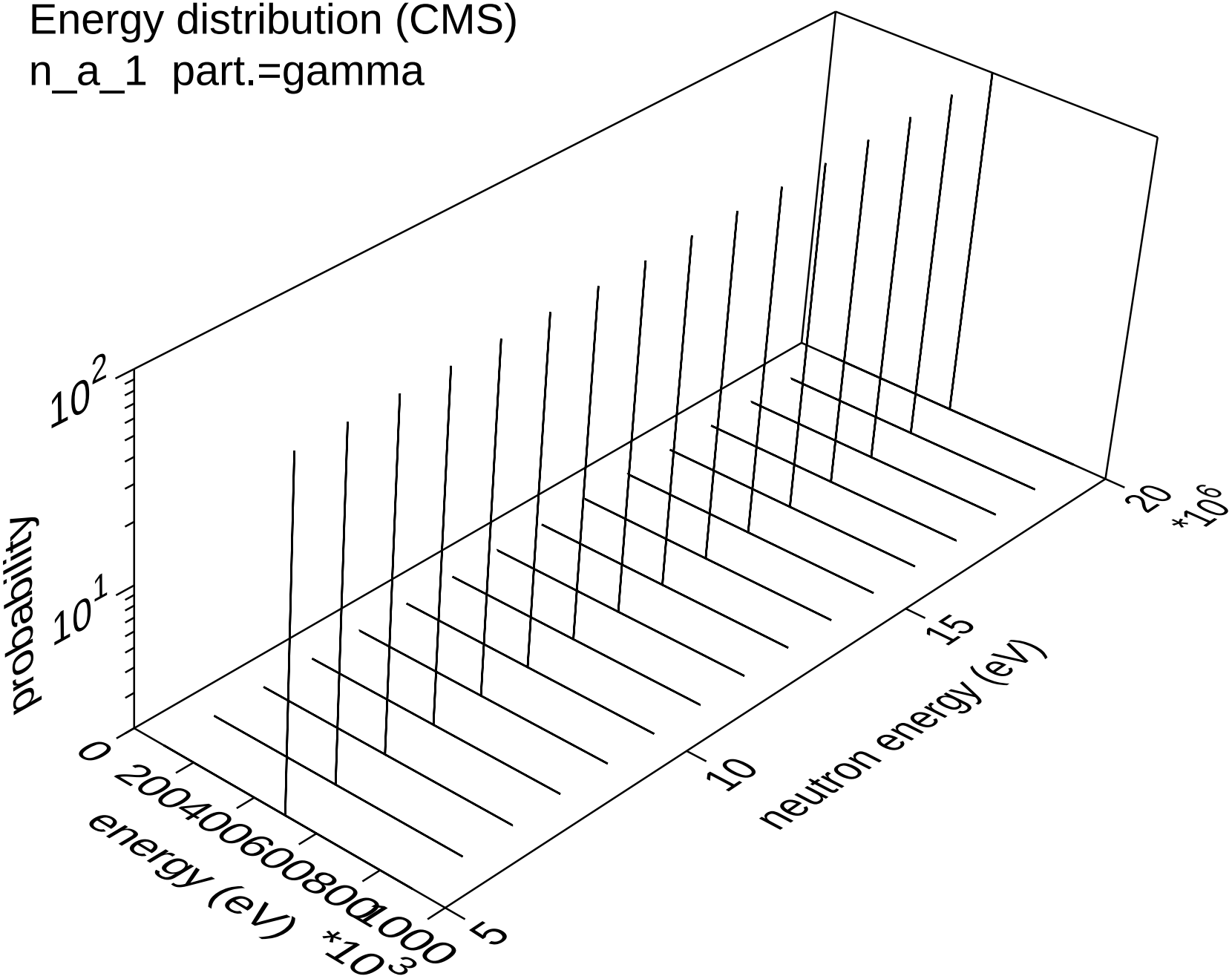

Energy distribution (CMS)
n_p_14 part.=gamma
probability
10^1
10^0
0
energy (eV)
1
2
3
4
5
*10 6
10
neutron energy (eV)
15
20
*10^6

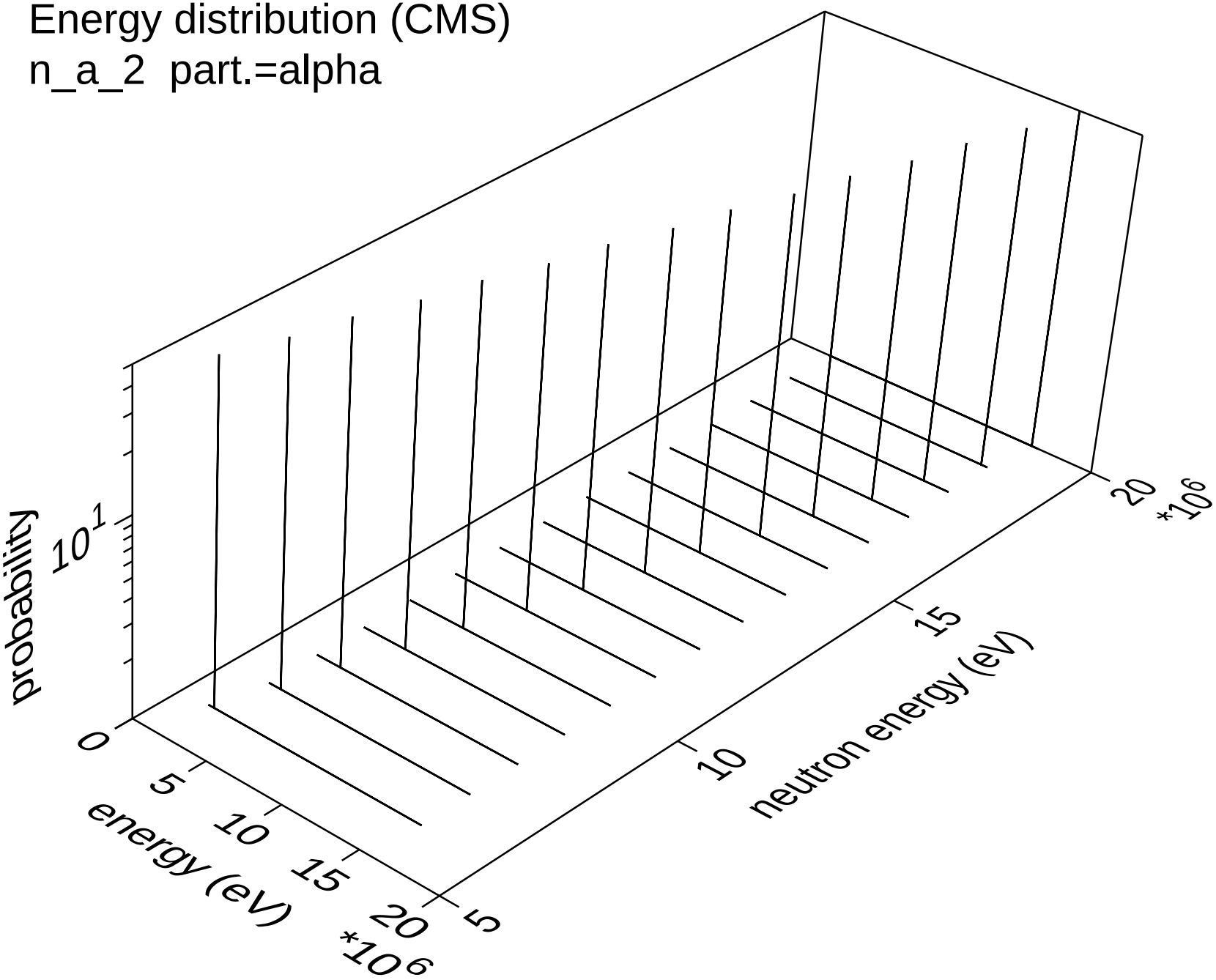

Energy distribution (CMS)
n_p_cont part.=proton
probability
10^1
10^-1
0
5
10
15
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

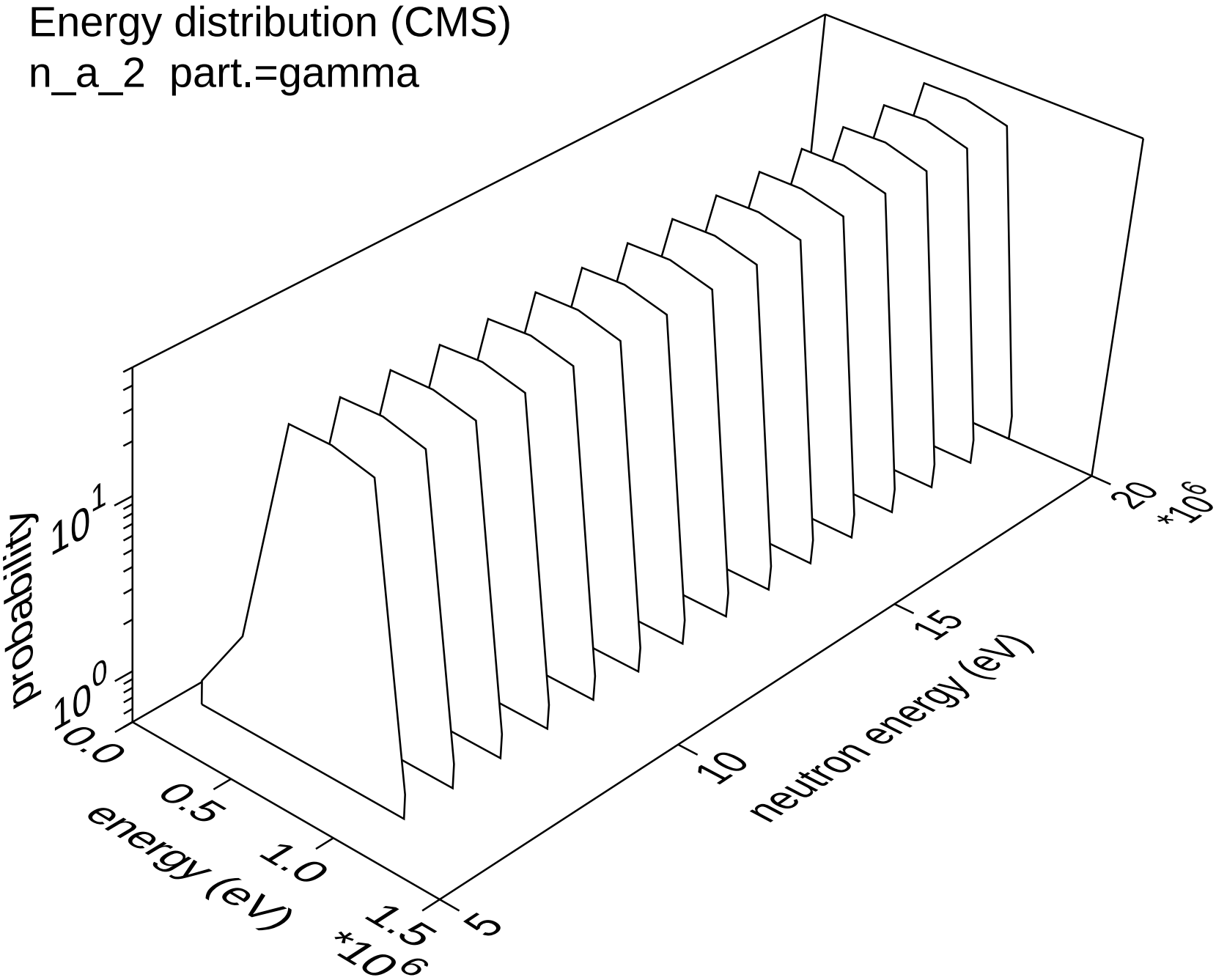

Energy distribution (CMS)
n_p_cont part.=gamma
probability
10^{1}
10^{0}
10^{-1}
0
1
2
3
4
5
energy (eV)
*10^6
10
15
20
neutron energy (eV)
*10^6

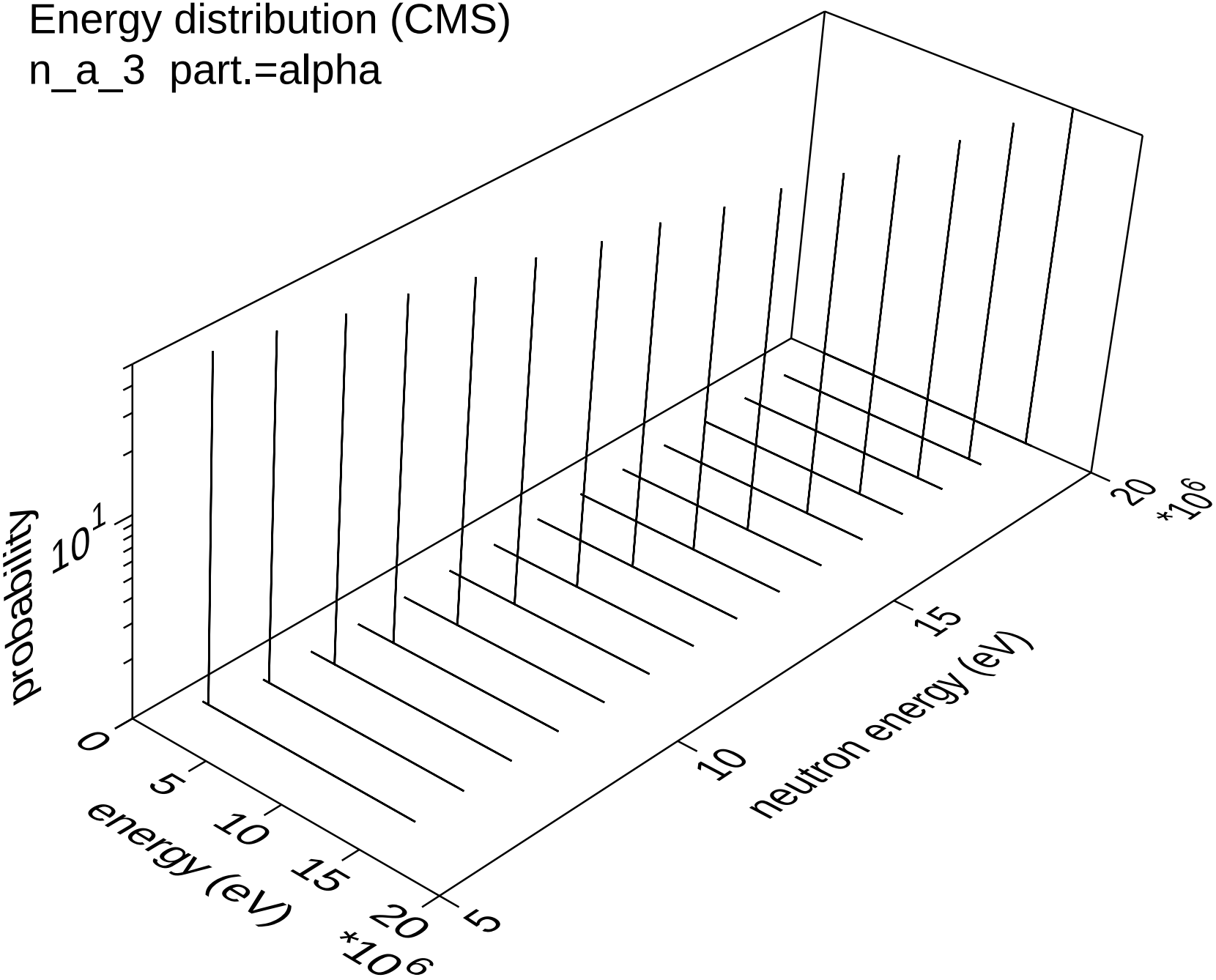

Energy distribution (CMS)
n_a_0
probability
10^{-1}
0
energy (eV)
5
10
15
20
*10^6
5
10
15
20
*10^6
neutron energy (eV)

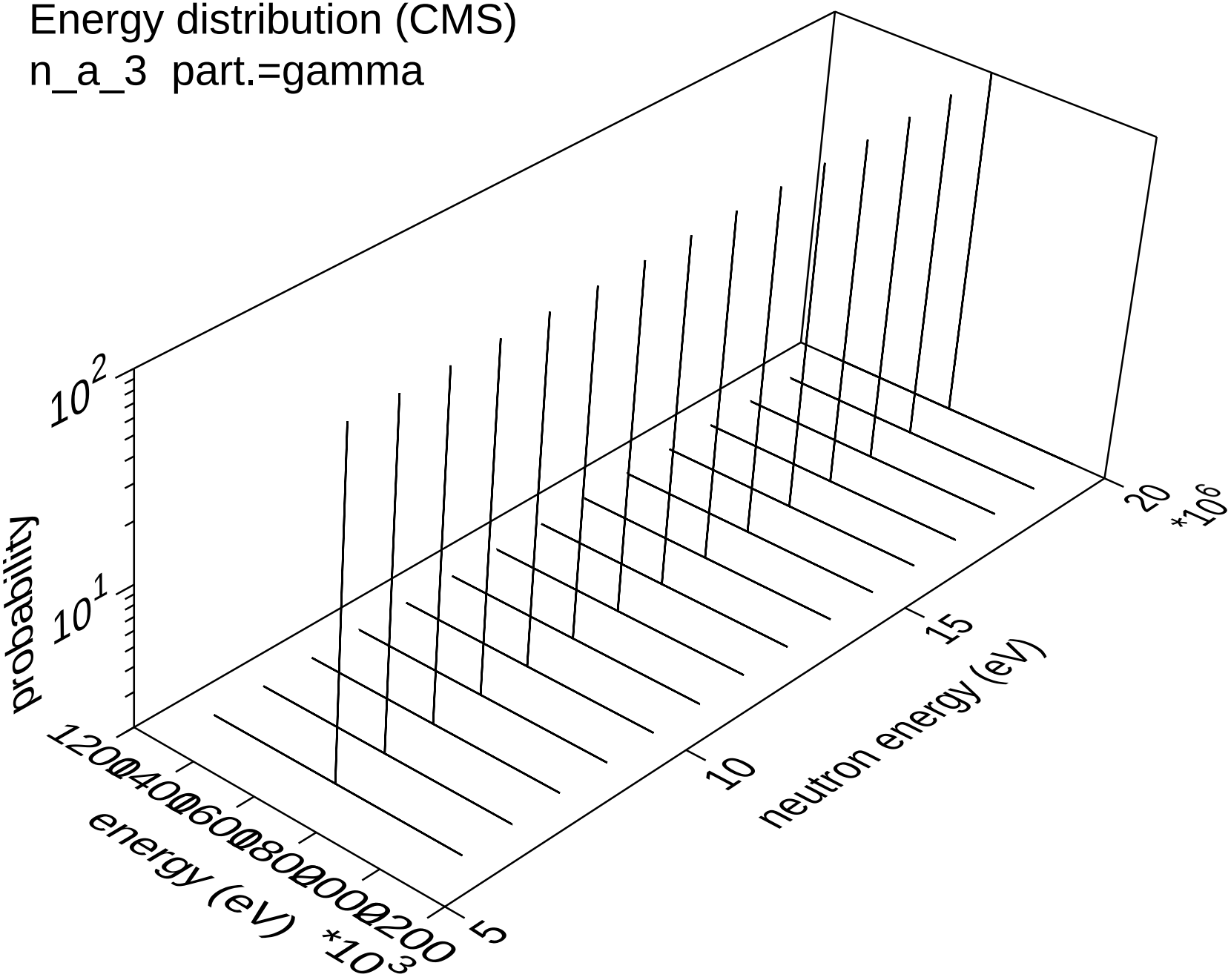

Energy distribution (CMS)
n_a_1 part.=alpha
probability
10^{-1}
0
energy (eV)
5
10
15
20
*10^6
5
10
15
20
*10^6
neutron energy (eV)

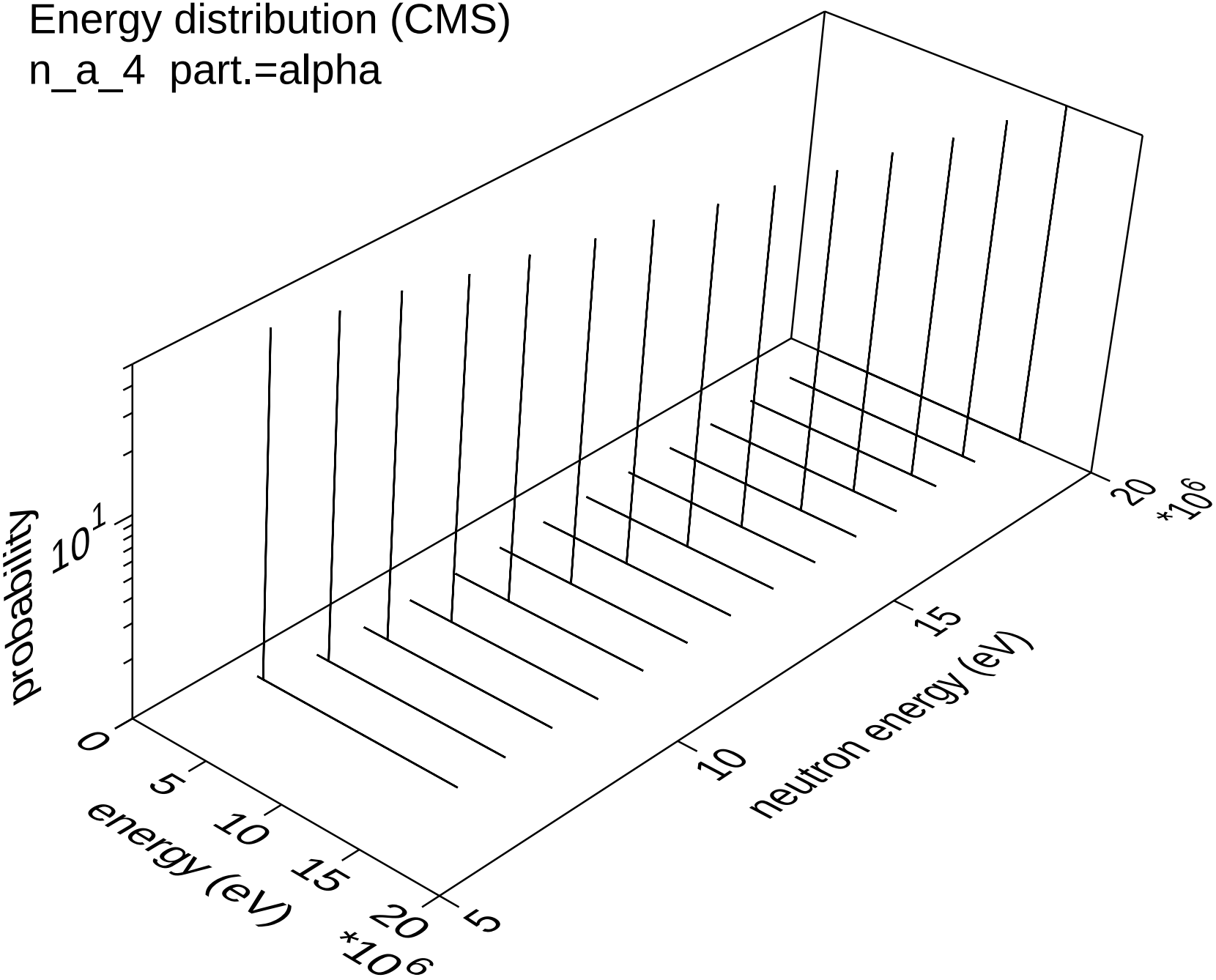

Energy distribution (CMS)
n_a_1 part.=gamma
probability
10^2
10^1
0
200
400
600
800
1000
energy (eV) *10^3
5
10
15
20
neutron energy (eV) *10^6

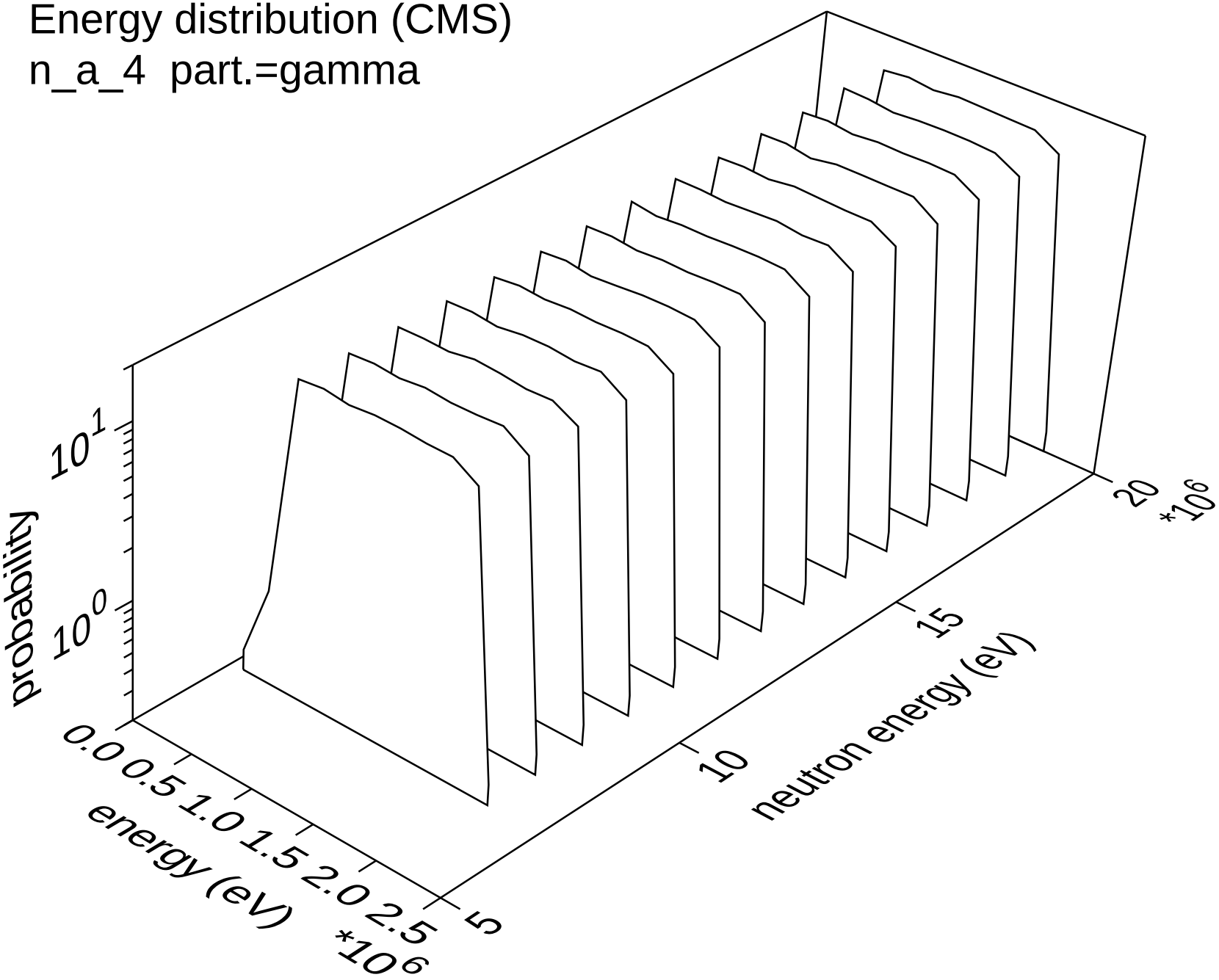

Energy distribution (CMS)
n_a_2 part.=alpha
probability
10^{-1}
0
energy (eV)
5
10
15
20
*10^6
5
10
15
20
*10^6
neutron energy (eV)

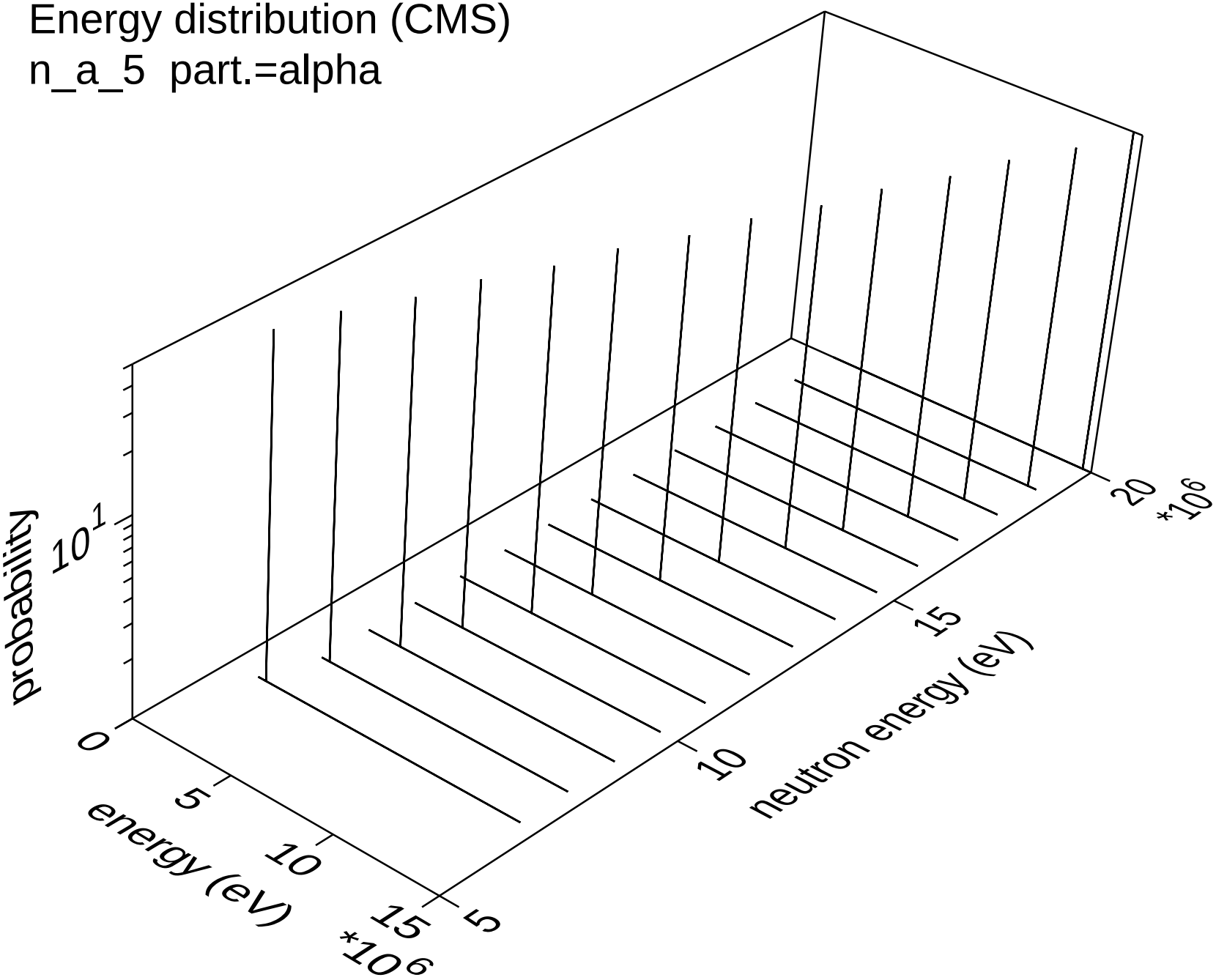

Energy distribution (CMS)
n_a_2 part.=gamma
probability
10^1
10^0
10.0
0.5
1.0
1.5
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

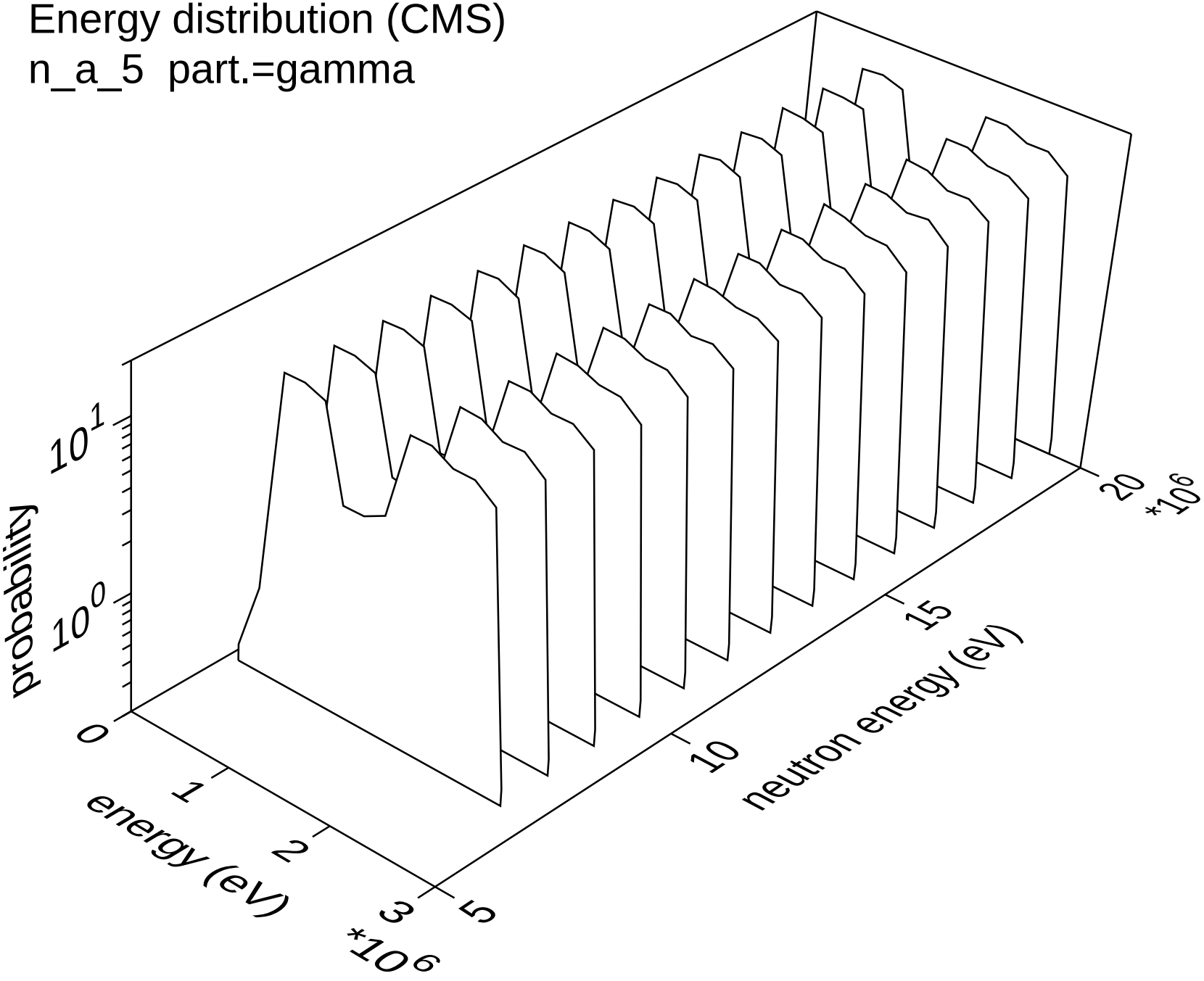

Energy distribution (CMS)
n_a_3 part.=alpha
probability
10^{-1}
0
5
10
15
20
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

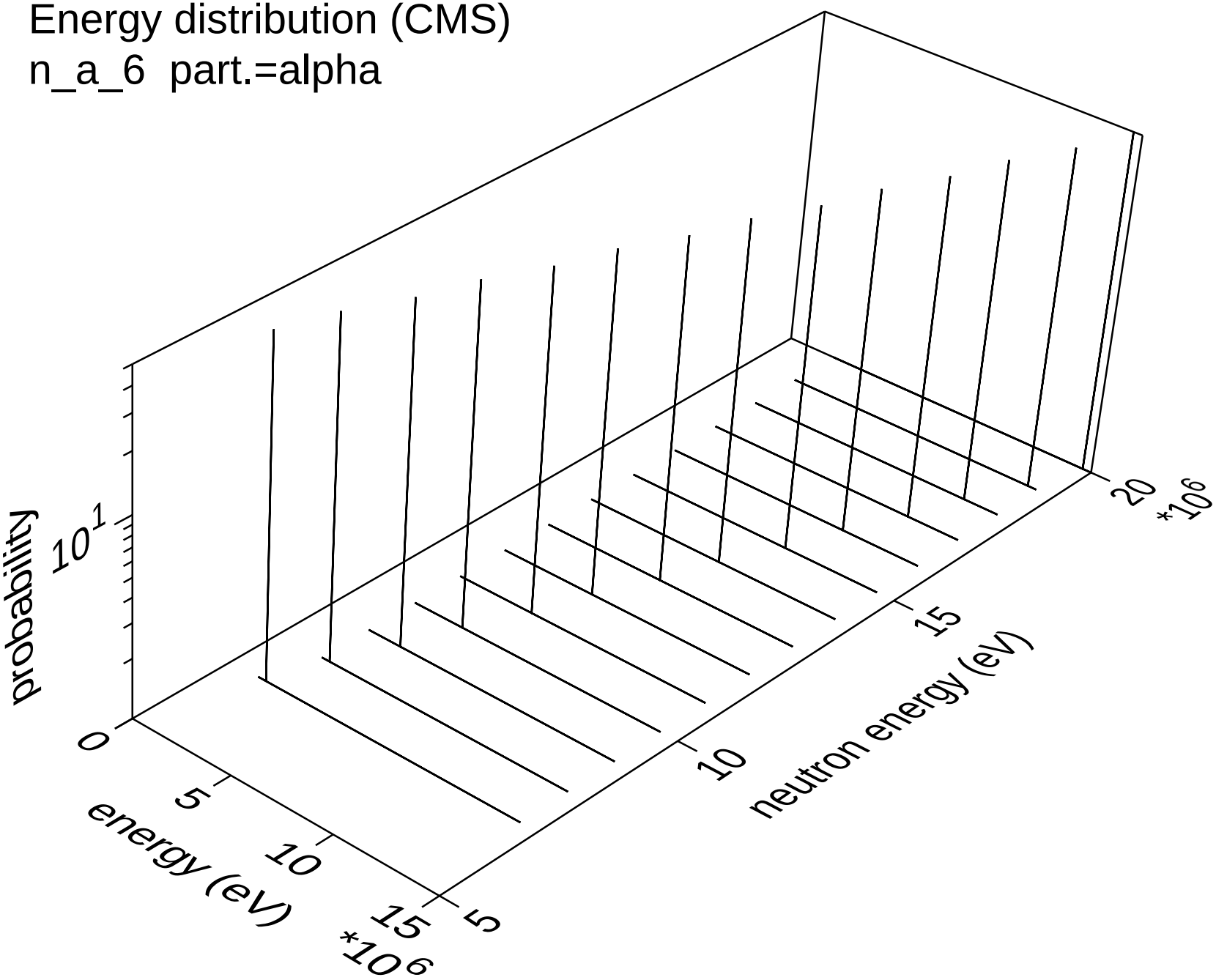

Energy distribution (CMS)
n_a_3 part.=gamma
probability
10^2
10^1
energy (eV) *10^3
1200
1400
1600
1800
2000
2200
neutron energy (eV)
5
10
15
20
*10^6

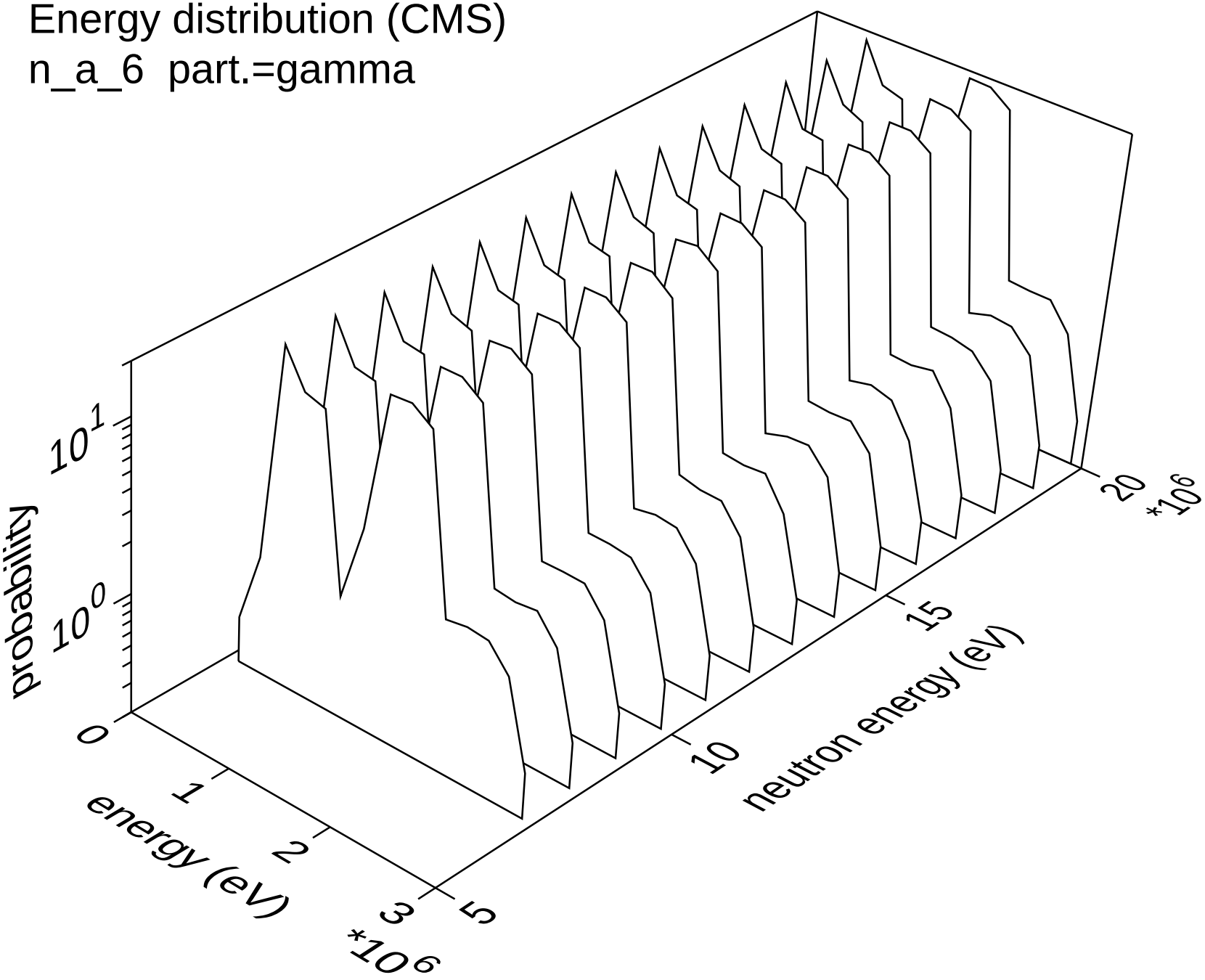

Energy distribution (CMS)
n_a_4 part.=alpha
probability
10^-1
0
energy (eV)
5
10
15
20
*10^6
5
10
15
neutron energy (eV)
20
*10^6

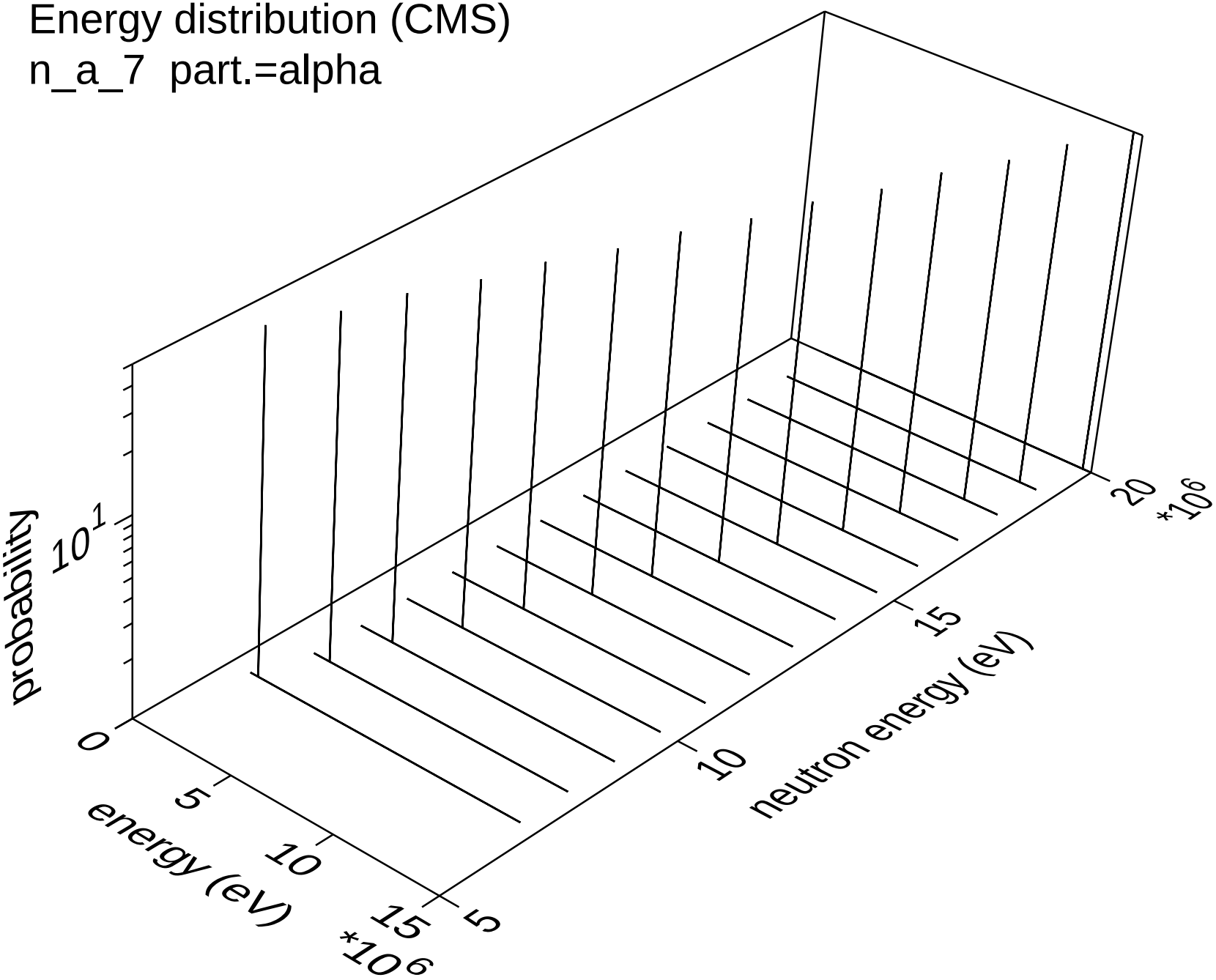

Energy distribution (CMS)
n_a_4 part.=gamma
probability
10^1
10^0
0.0 0.5 1.0 1.5 2.0 2.5
energy (eV) *10^6
5
10
15
20
neutron energy (eV) *10^6

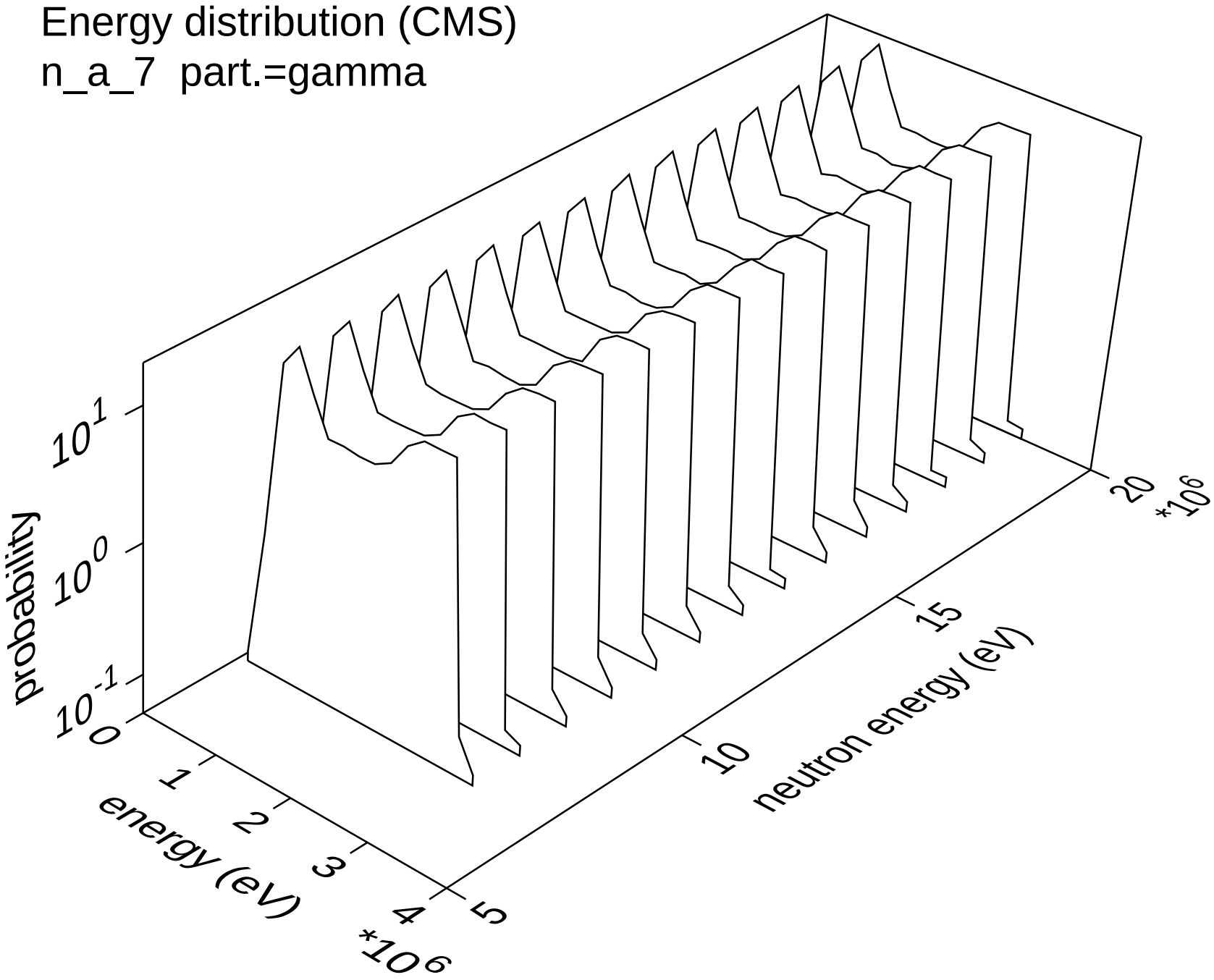

Energy distribution (CMS)
n_a_5 part.=alpha
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

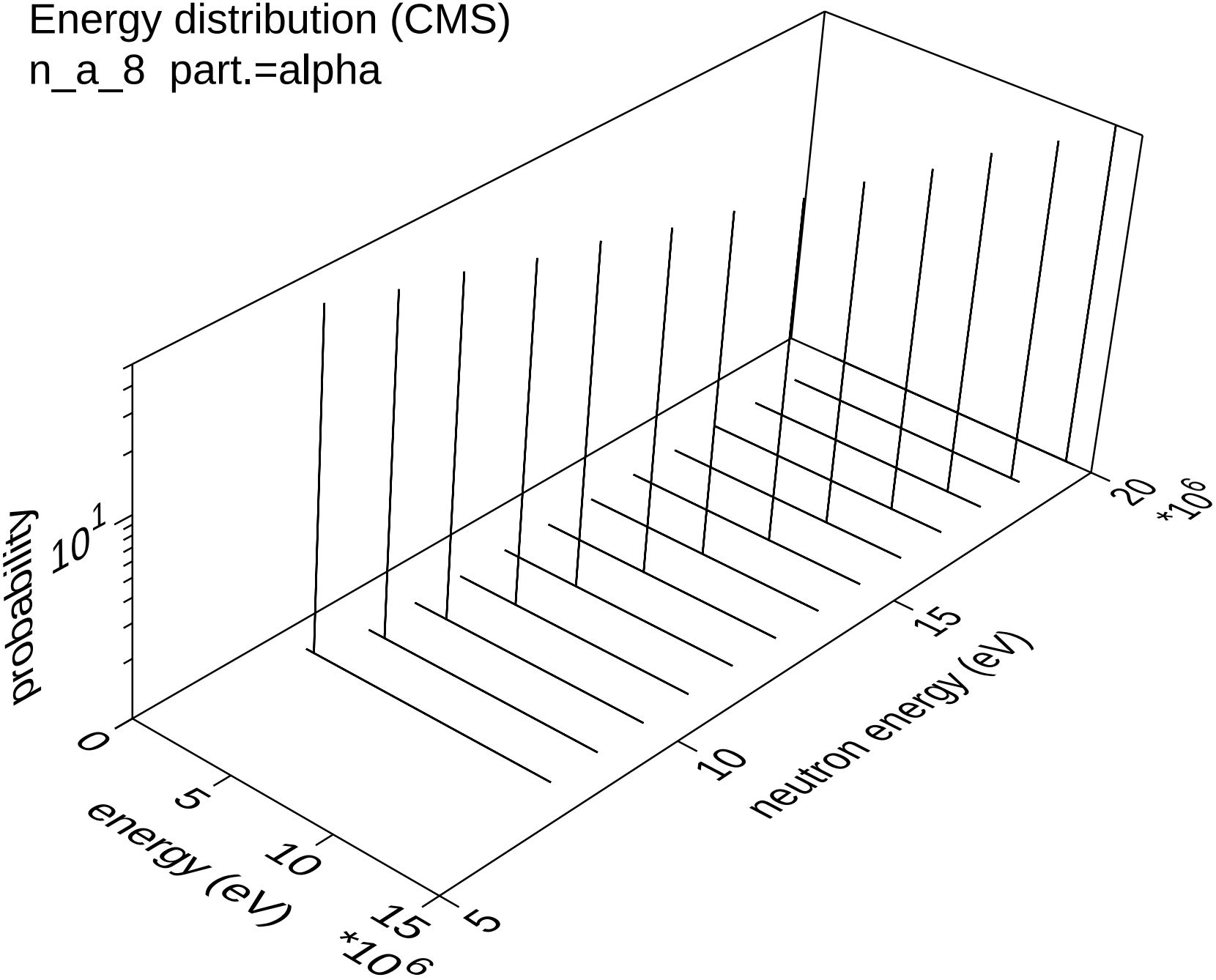

Energy distribution (CMS)
n_a_5 part.=gamma
probability
10^1
10^0
0
energy (eV)
1
2
3
*10 6
5
10
15
20
*10^6
neutron energy (eV)

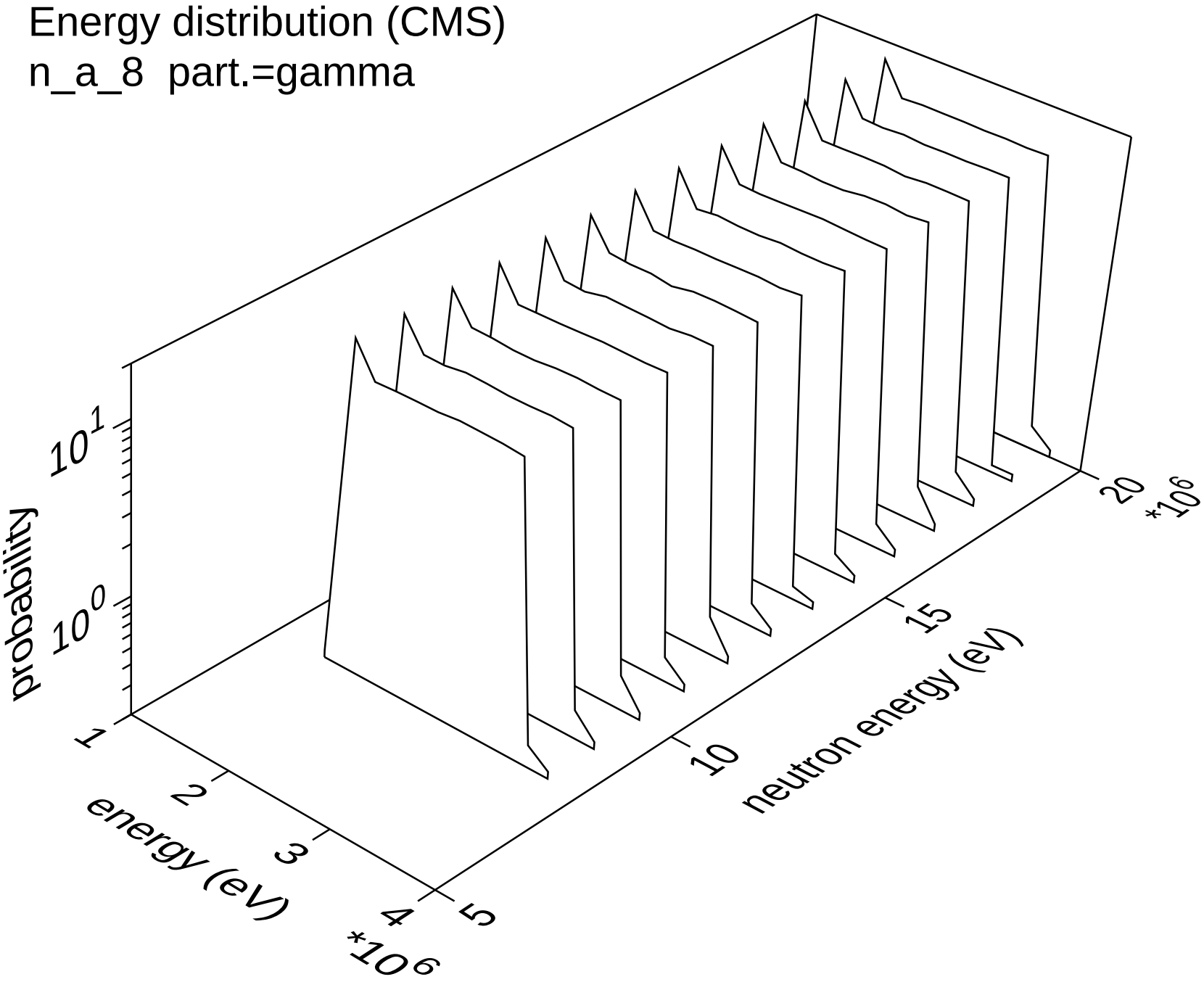

Energy distribution (CMS)
n_a_6 part.=alpha
probability
10^{1}
0
5
10
15
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

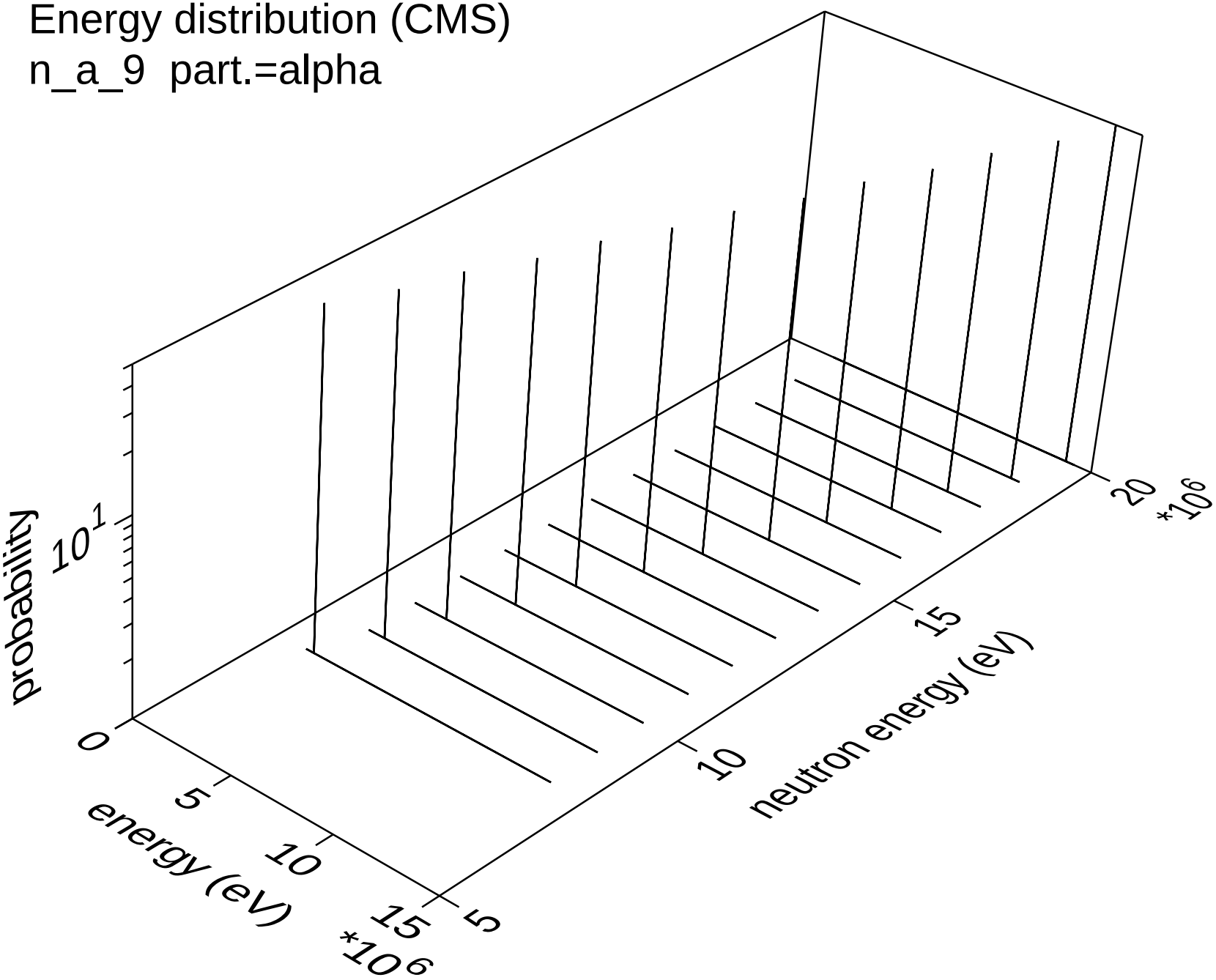

Energy distribution (CMS)
n_a_6 part.=gamma
probability
10^1
10^0
0
energy (eV)
1
2
3
*10 6
5
10
neutron energy (eV)
15
20
*10^6

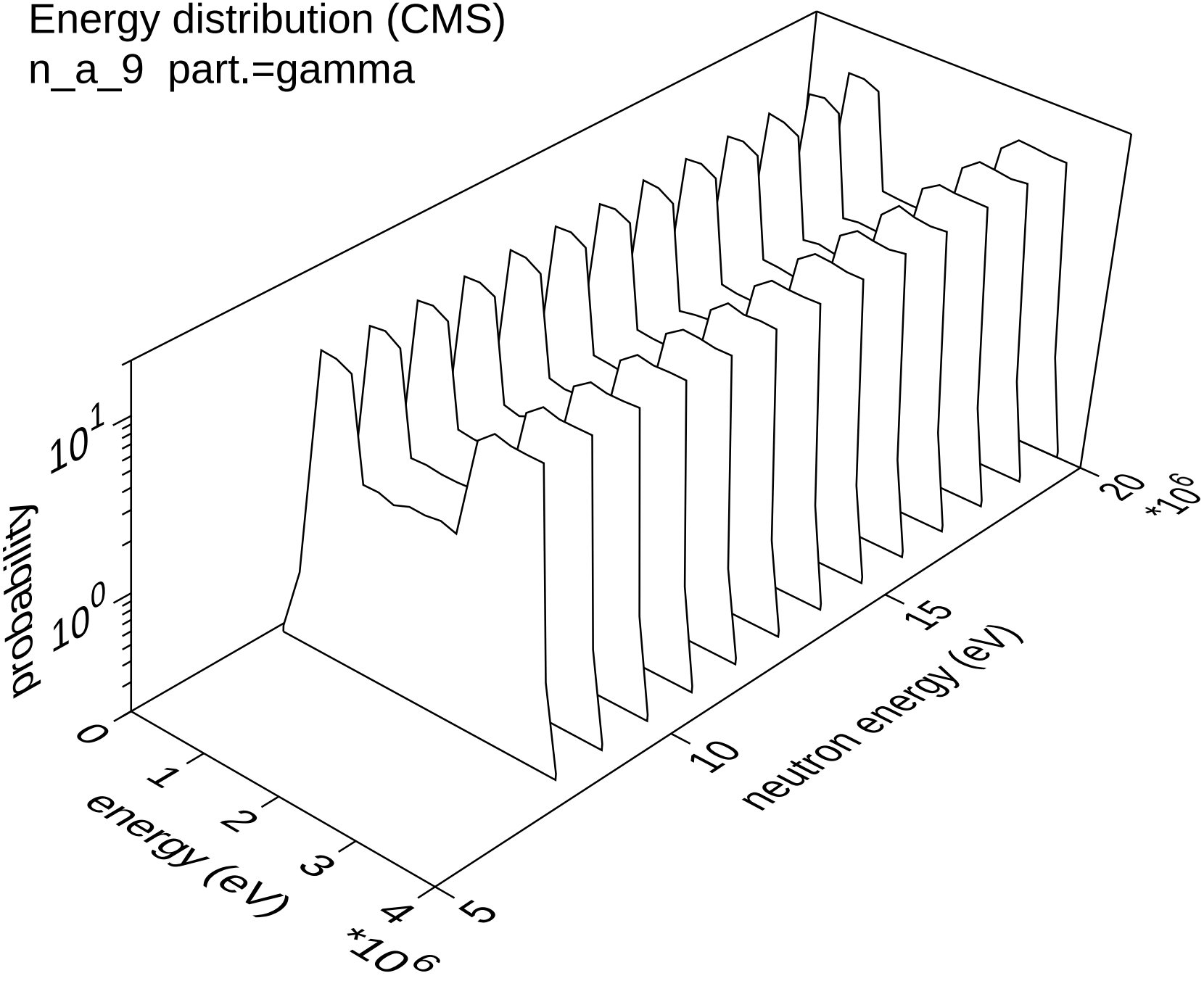

Energy distribution (CMS)
n_a_7 part.=alpha
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

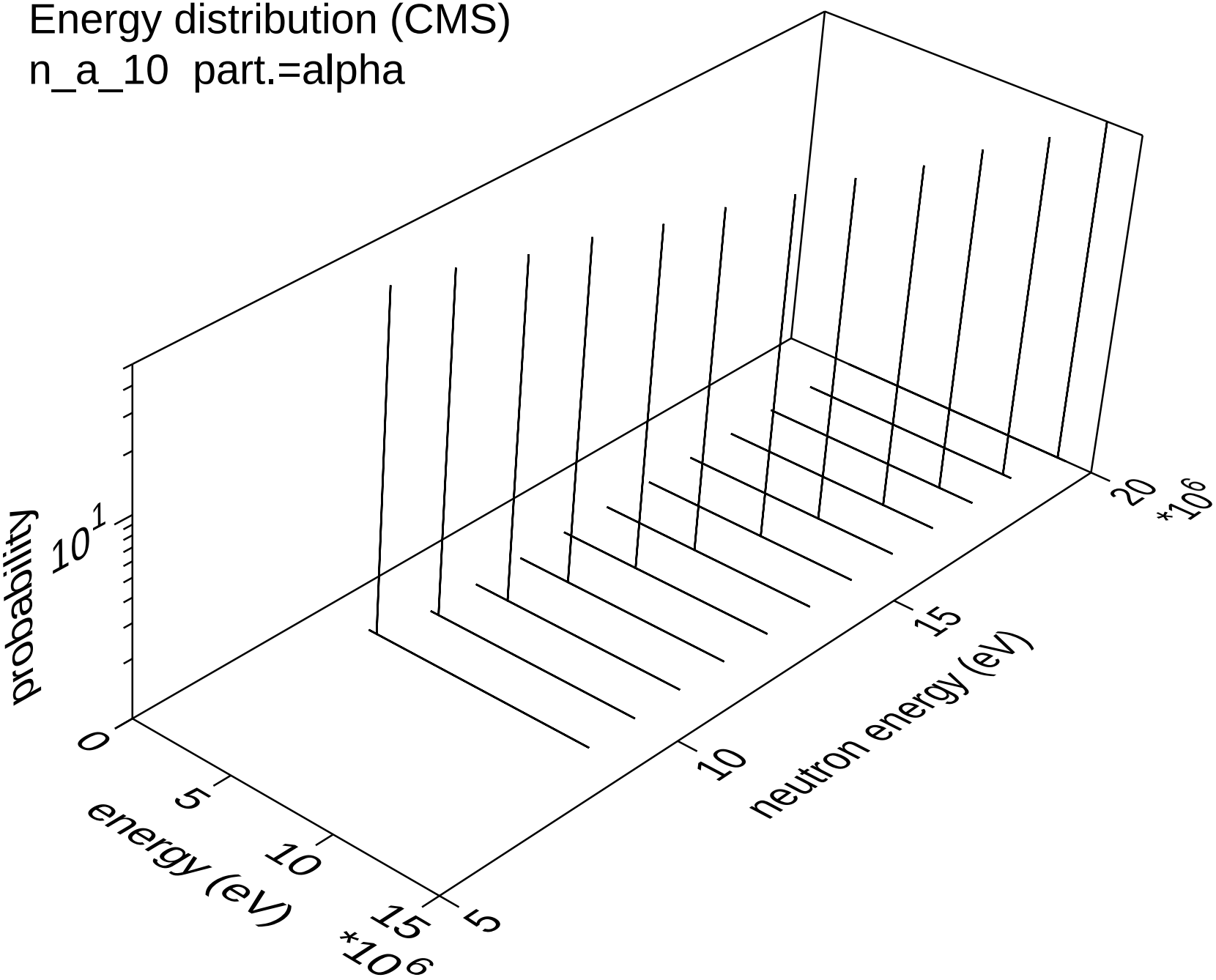

Energy distribution (CMS)
n_a_7 part.=gamma
probability
10^{1}
10^{0}
10^{-1}
0
1
2
3
4
5
*10 6
energy (eV)
10
15
20
*10^6
neutron energy (eV)

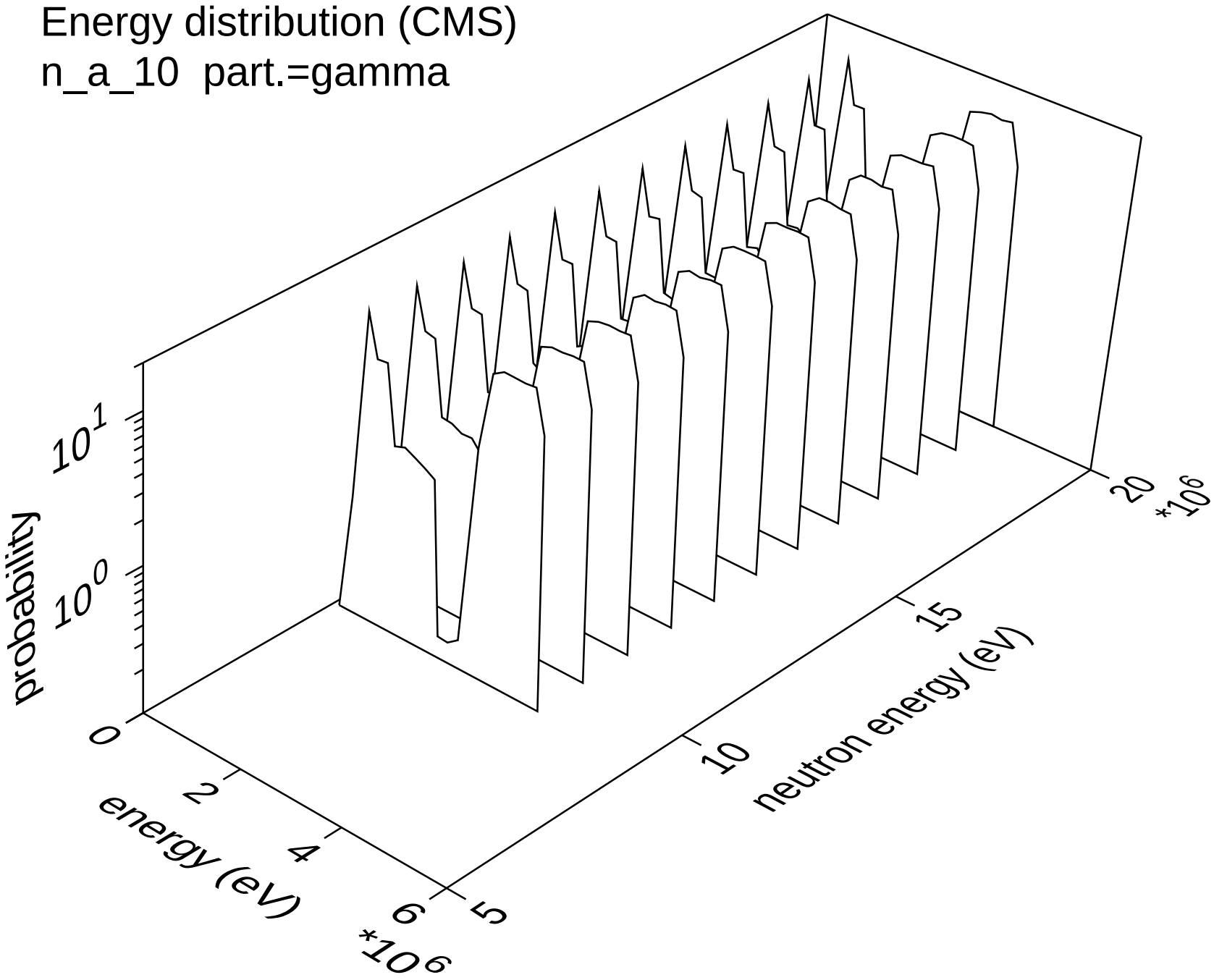

Energy distribution (CMS)
n_a_8 part.=alpha
probability
10^{-1}
0
5
10
15
*10⁶
energy (eV)
5
10
15
20
*10⁶
neutron energy (eV)

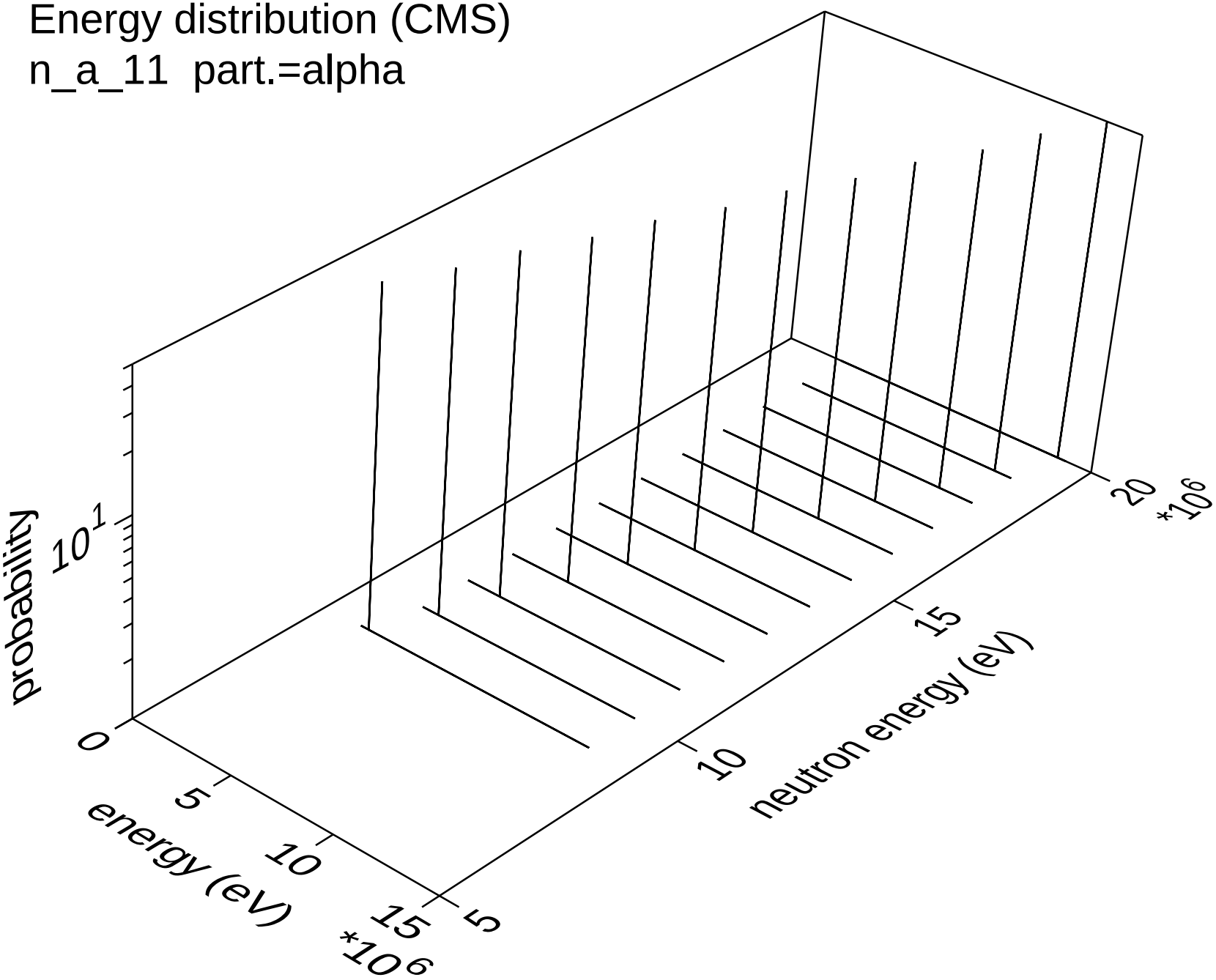

Energy distribution (CMS)
n_a_8 part.=gamma
probability
10^1
10^0
1
2
3
4
5
*10 6
energy (eV)
10
15
20
*10^6
neutron energy (eV)

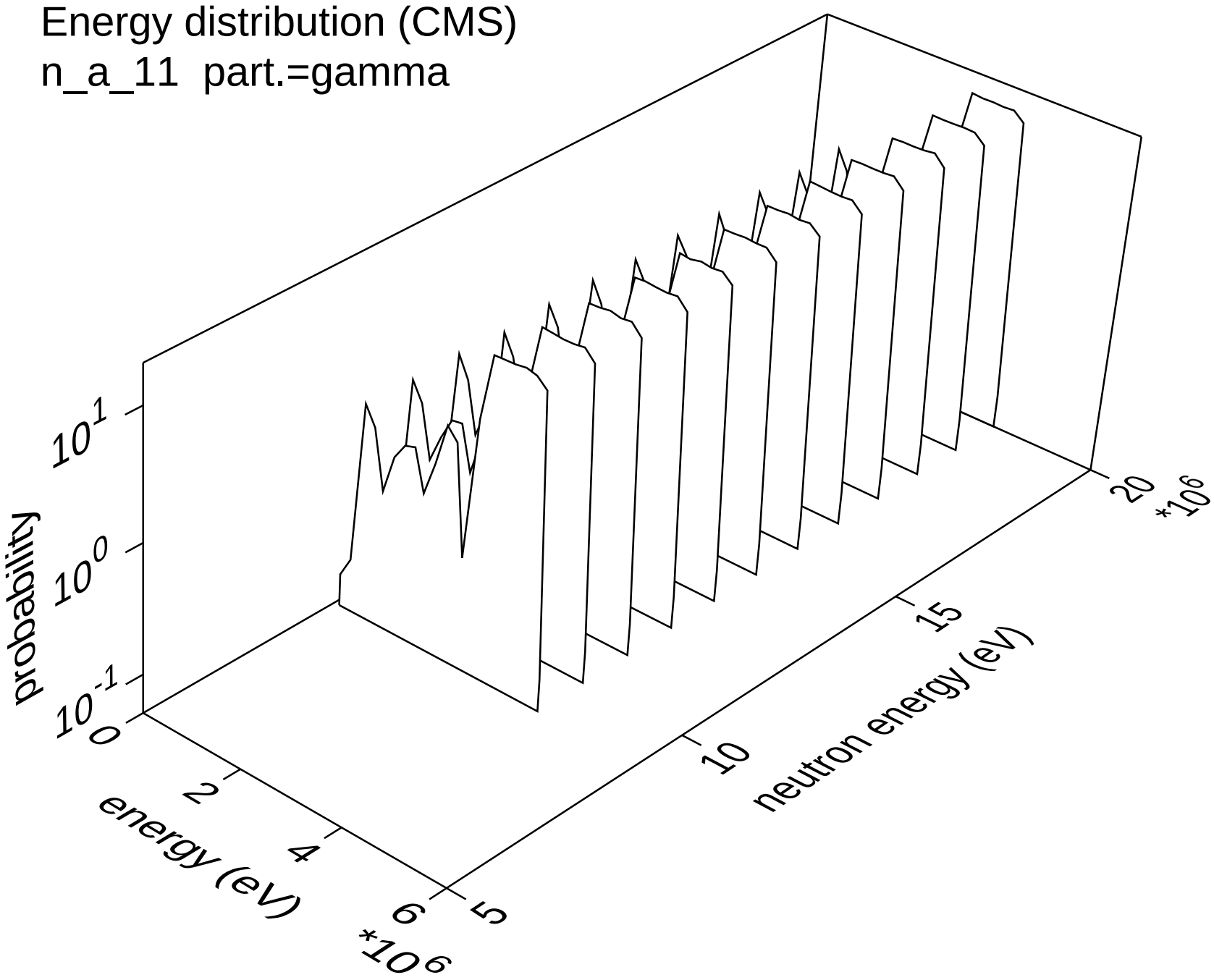

Energy distribution (CMS)
n_a_9 part.=alpha
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

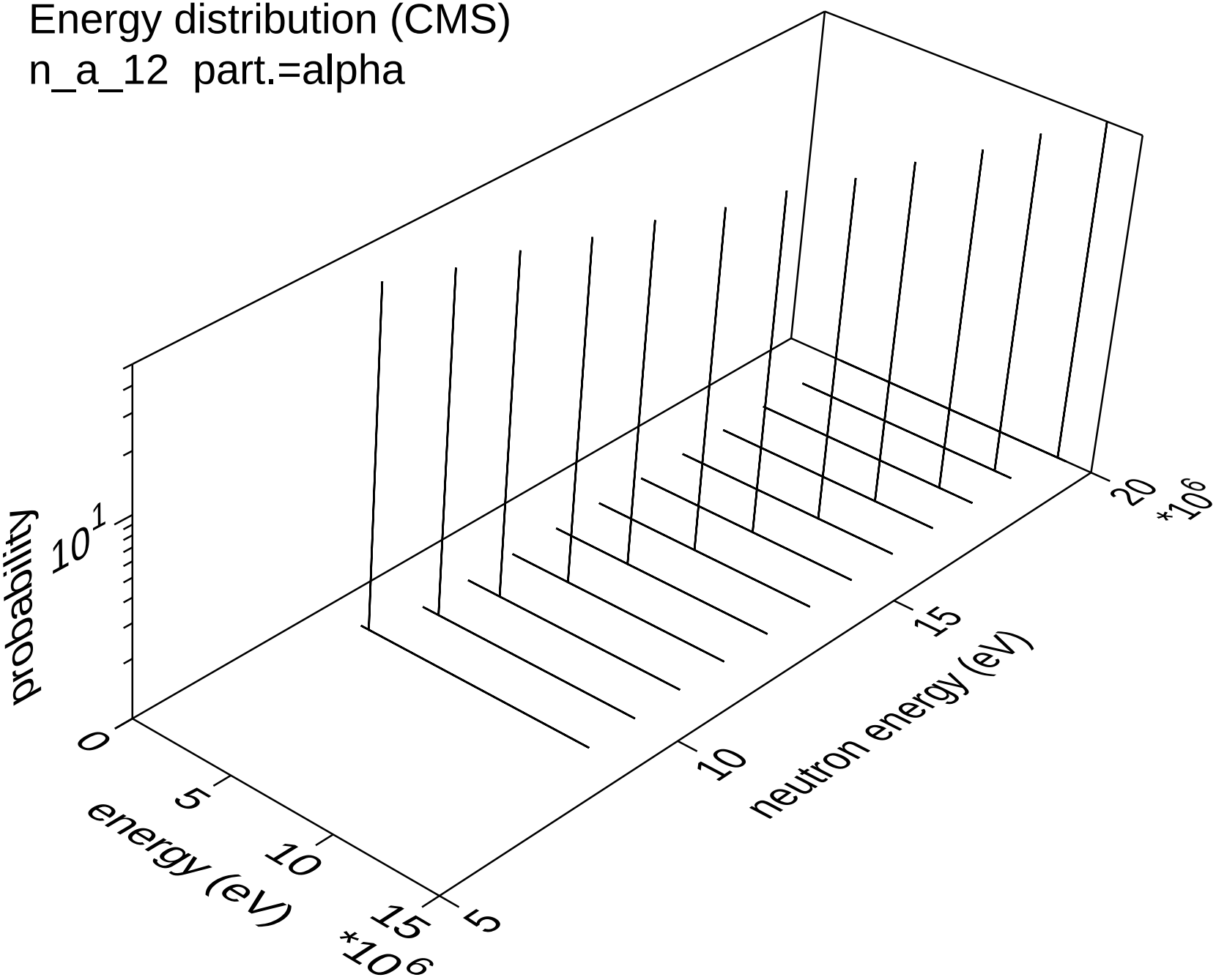

Energy distribution (CMS)
n_a_9 part.=gamma
probability
10^1
10^0
0
1
2
3
4
5
energy (eV)
*10 6
10
15
20
neutron energy (eV)
*10^6

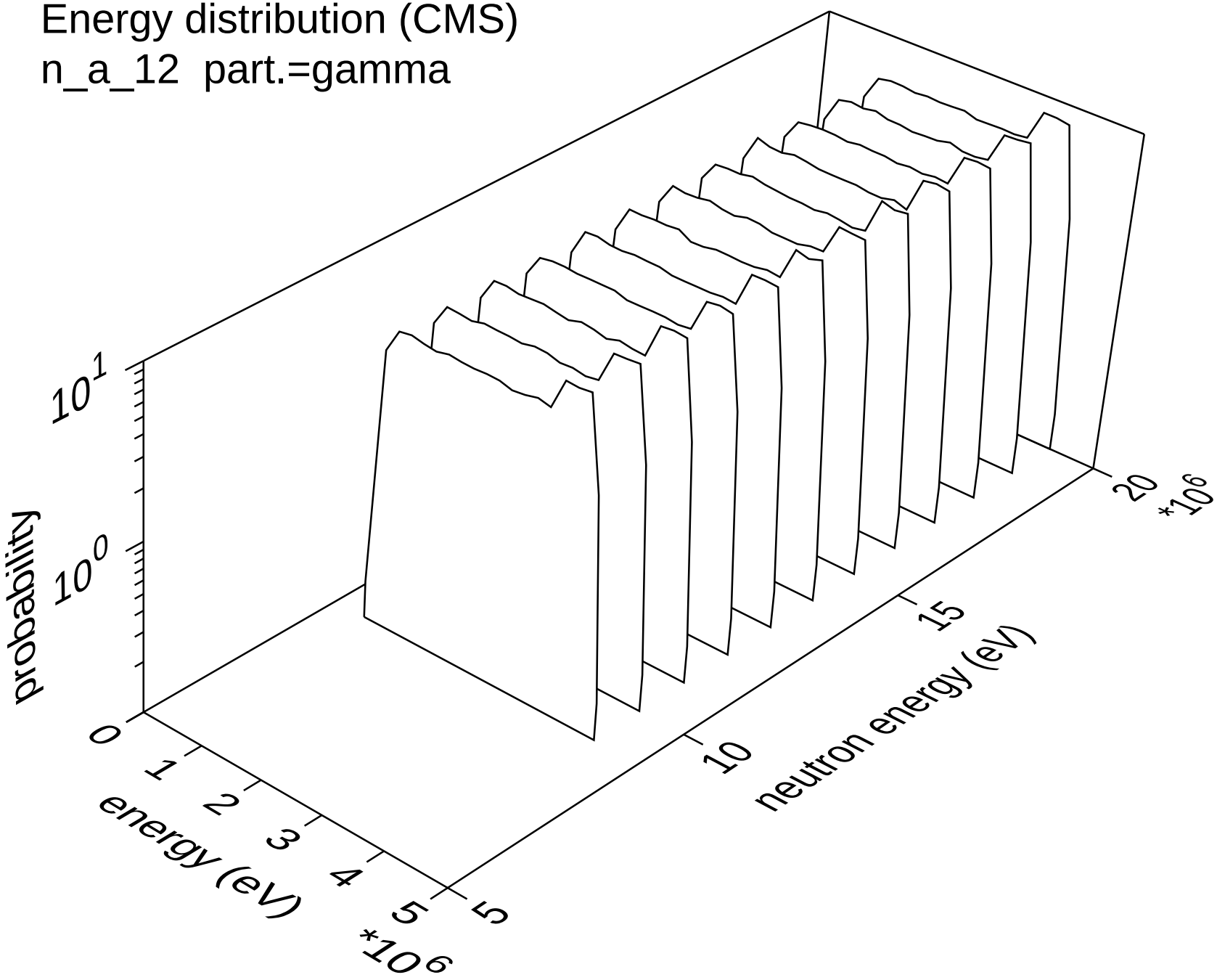

Energy distribution (CMS)
n_a_10 part.=alpha
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

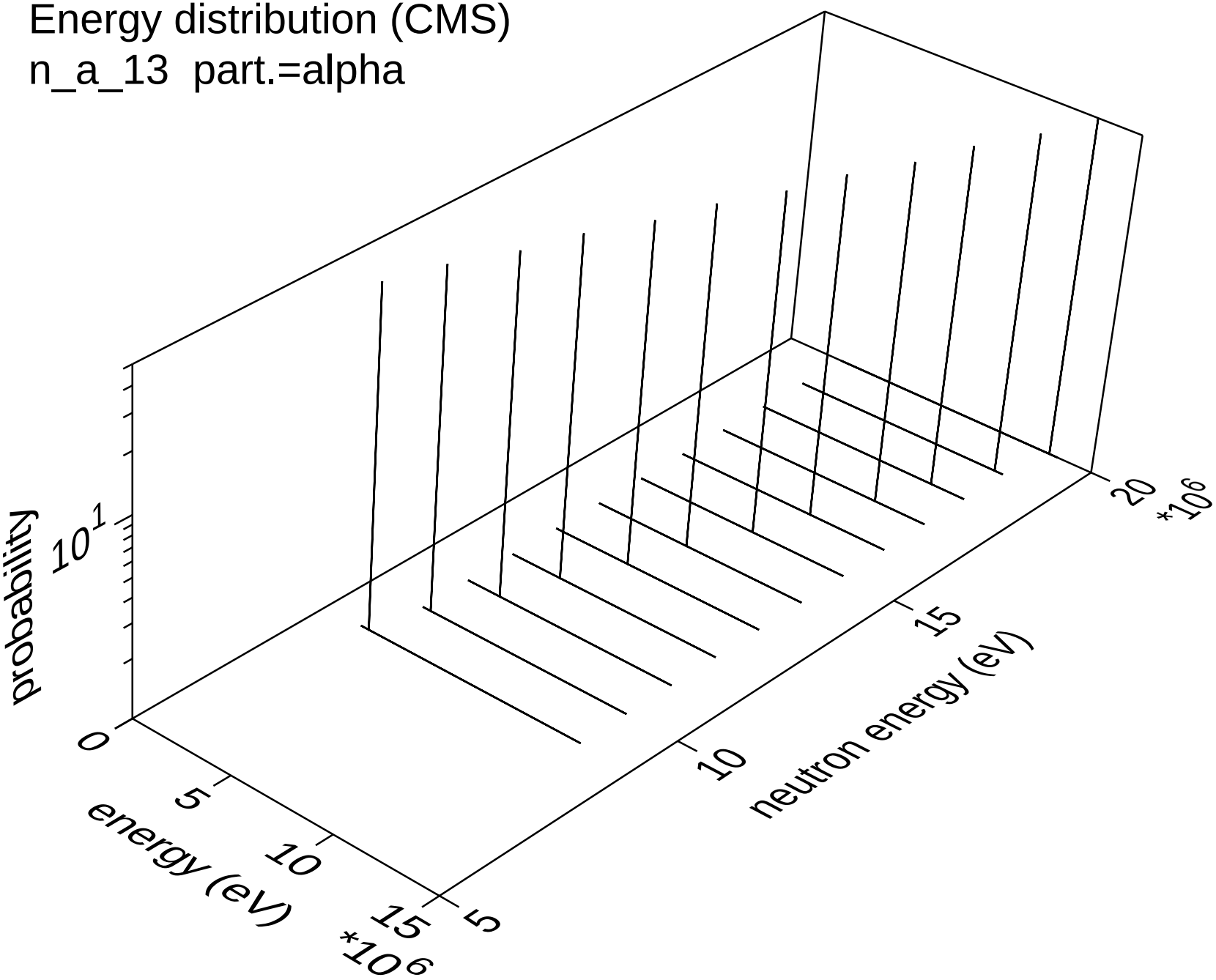

Energy distribution (CMS)
n_a_10 part.=gamma
probability
10^1
10^0
0
2
4
6
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

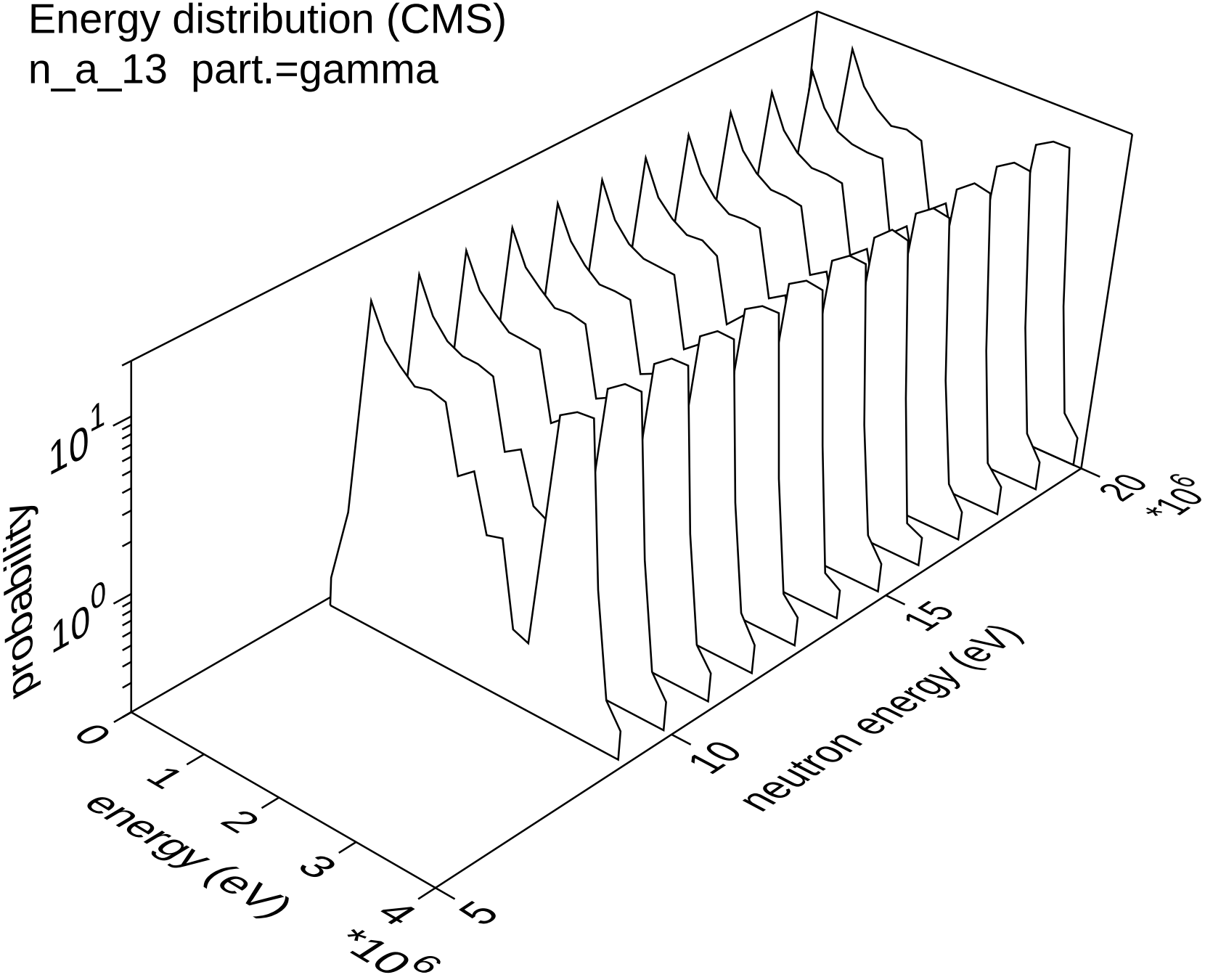

Energy distribution (CMS)
n_a_11 part.=alpha
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

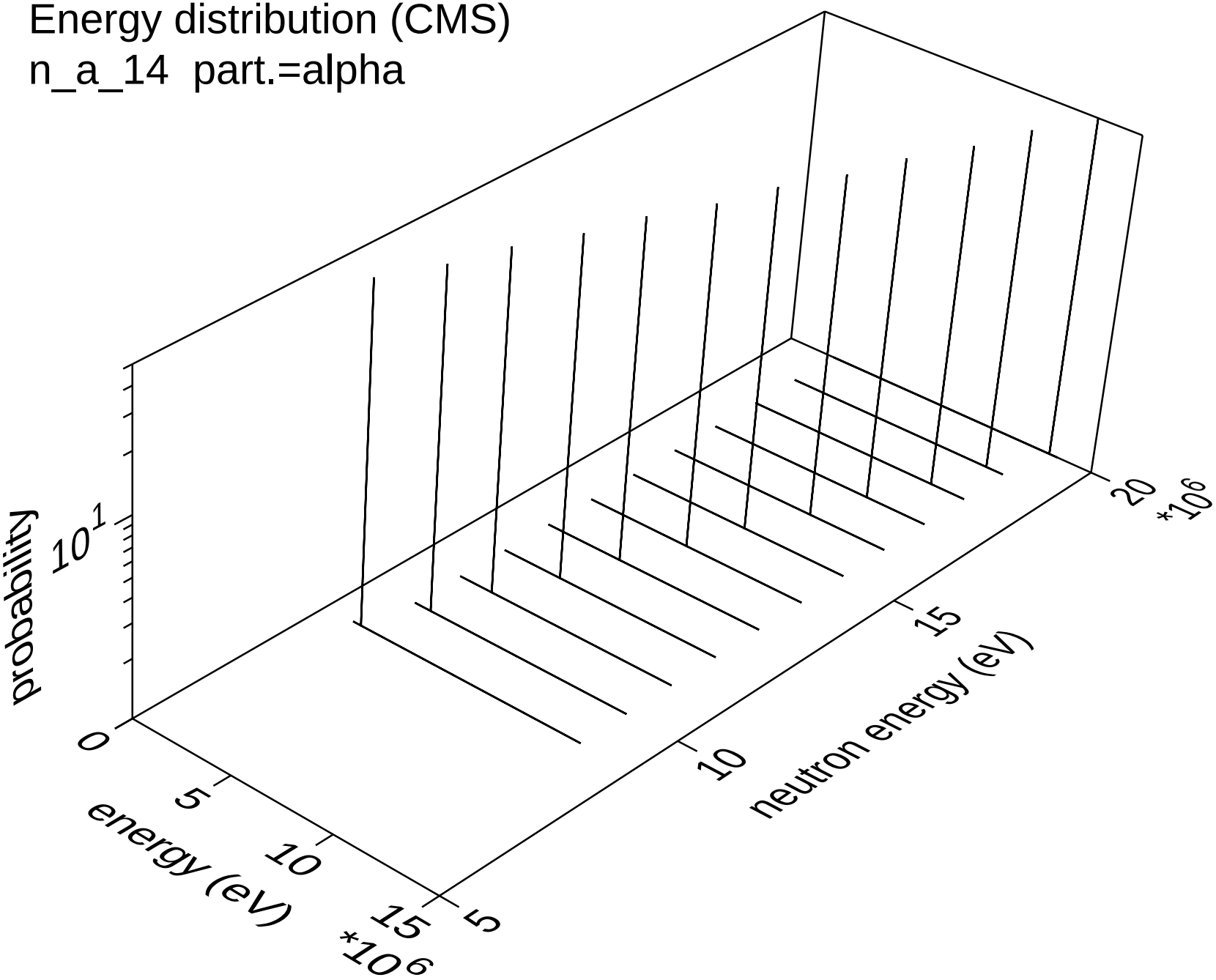

Energy distribution (CMS)
n_a_11 part.=gamma
probability
10^{1}
10^{0}
10^{-1}
0
2
4
6
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)


Energy distribution (CMS)
n_a_12 part.=alpha
probability
10^1
0
5
10
15
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

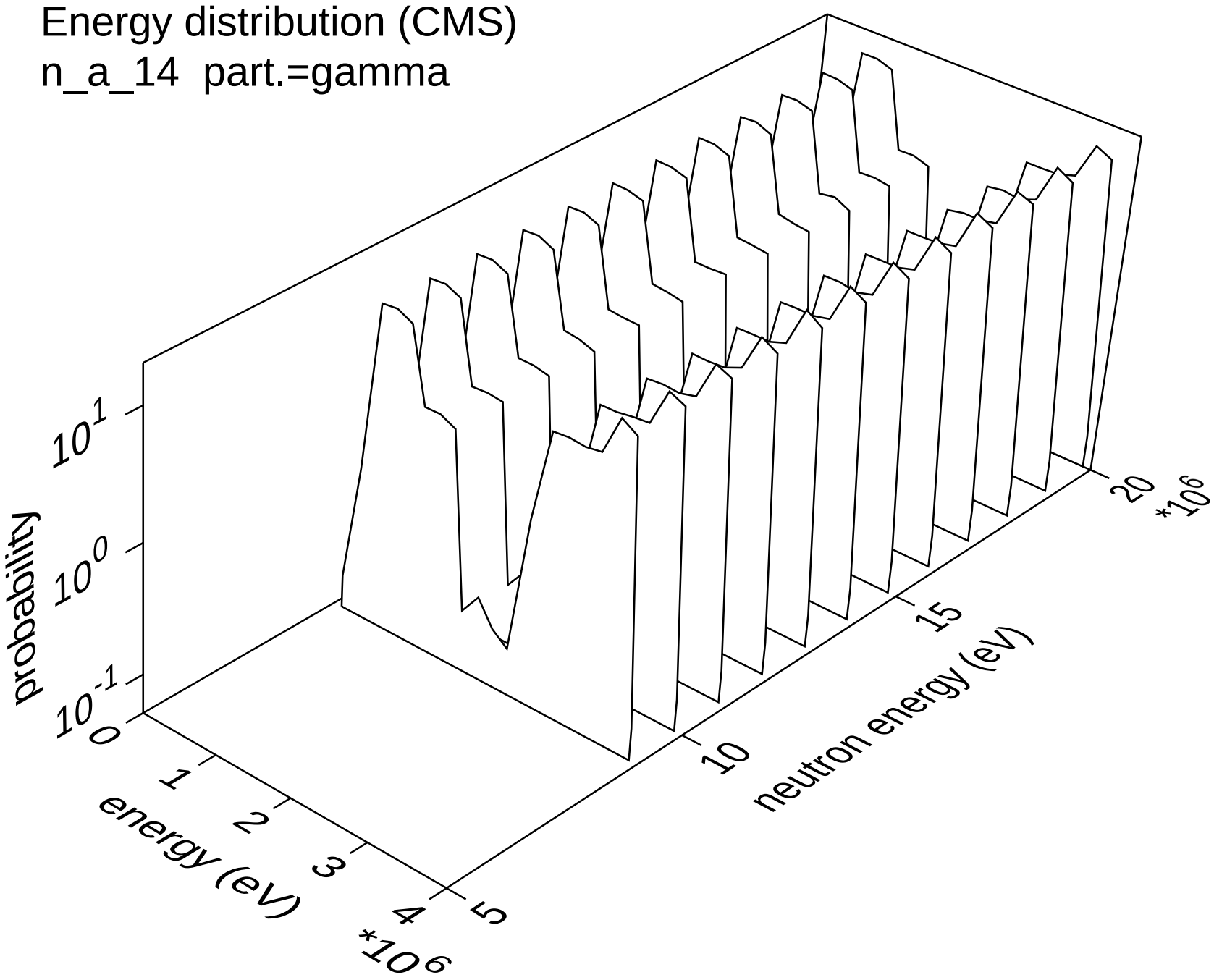

Energy distribution (CMS)
n_a_12 part.=gamma
probability
10^1
10^0
0
1
2
3
4
5
*10 6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

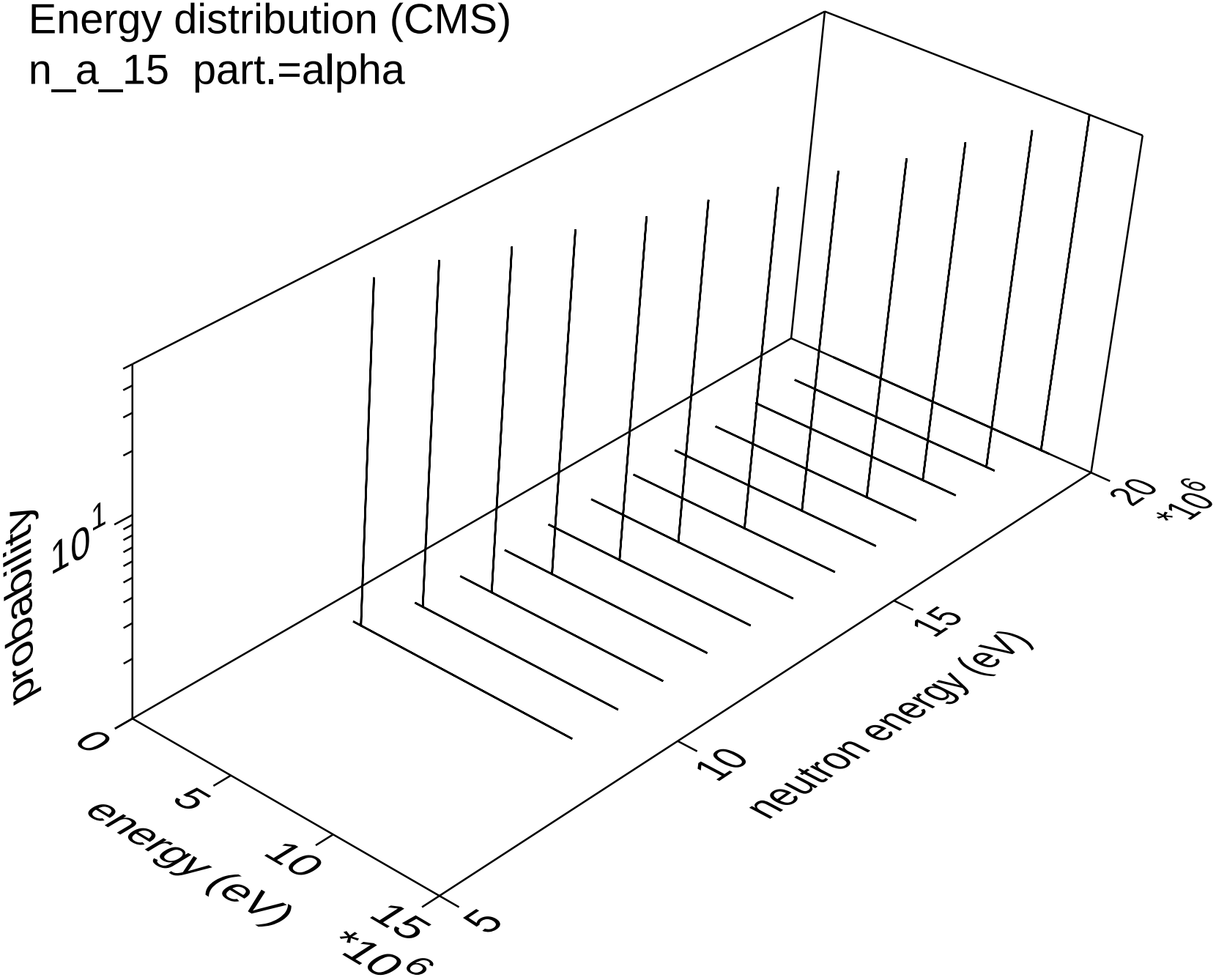

Energy distribution (CMS)
n_a_13 part.=alpha
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

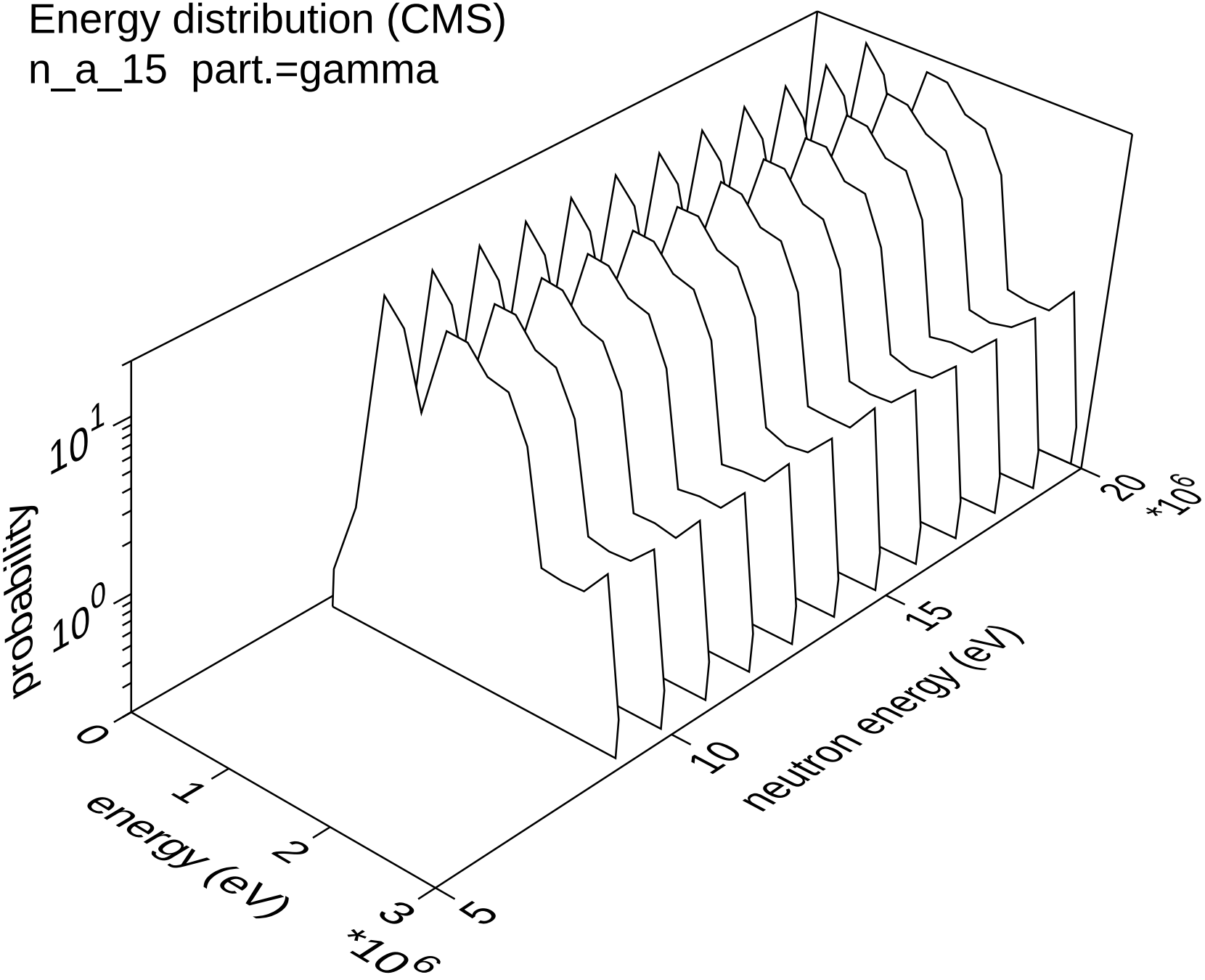

Energy distribution (CMS)
n_a_13 part.=gamma
probability
10^1
10^0
0
1
2
3
4
5
energy (eV)
*10 6
10
15
20
neutron energy (eV)
*10^6

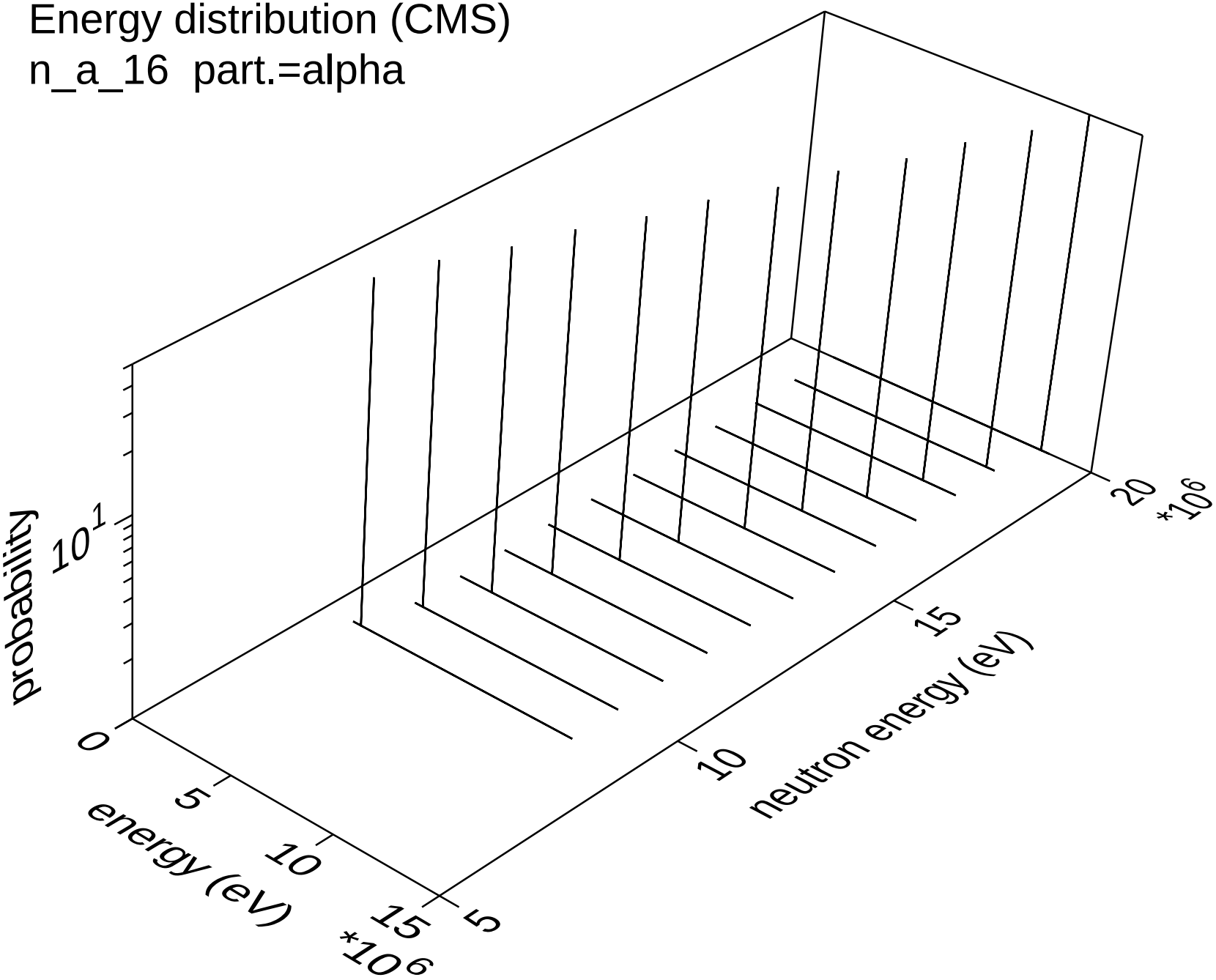


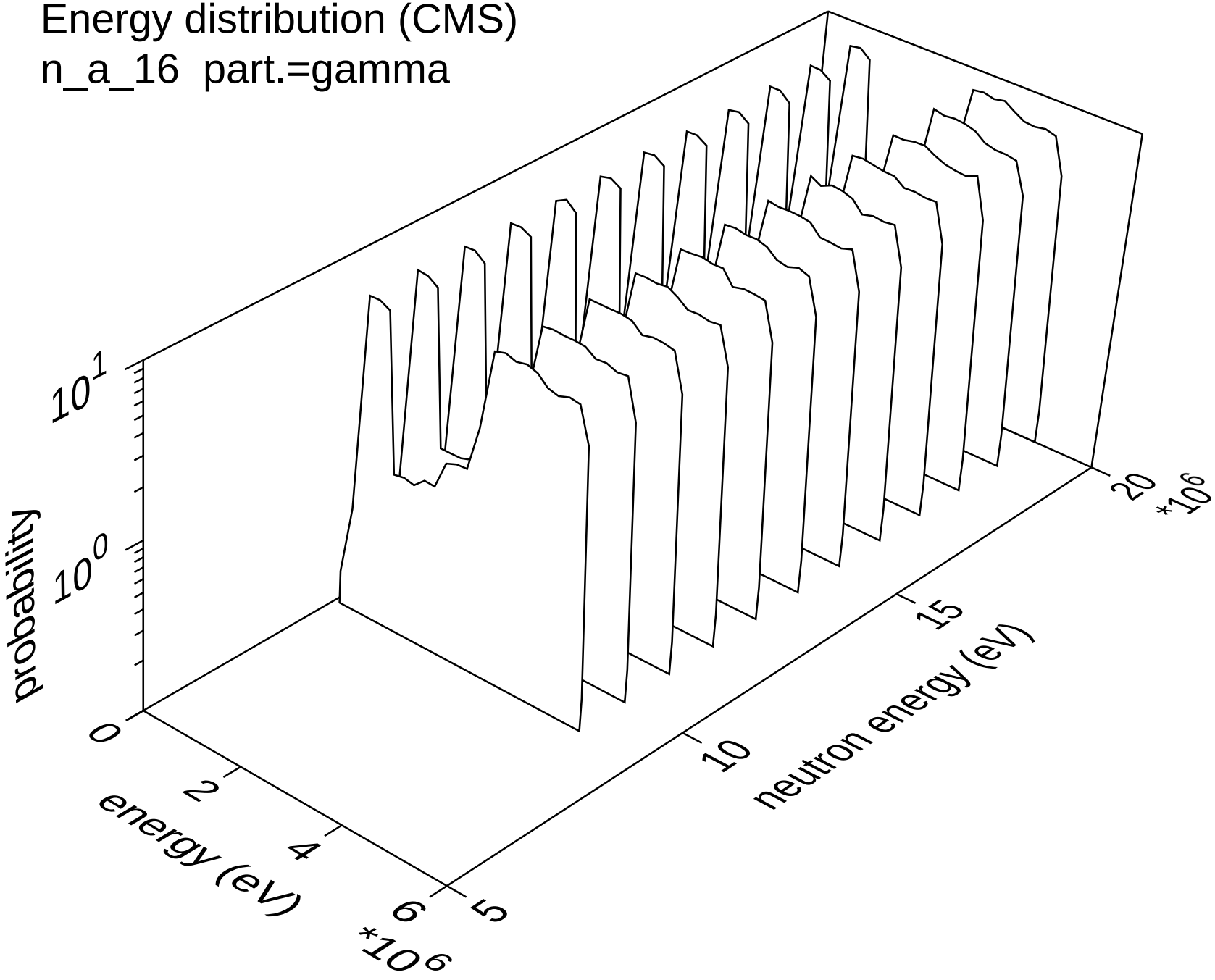
Energy distribution (CMS)
n_a_14 part.=alpha
probability
10^1
0
5
10
15
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

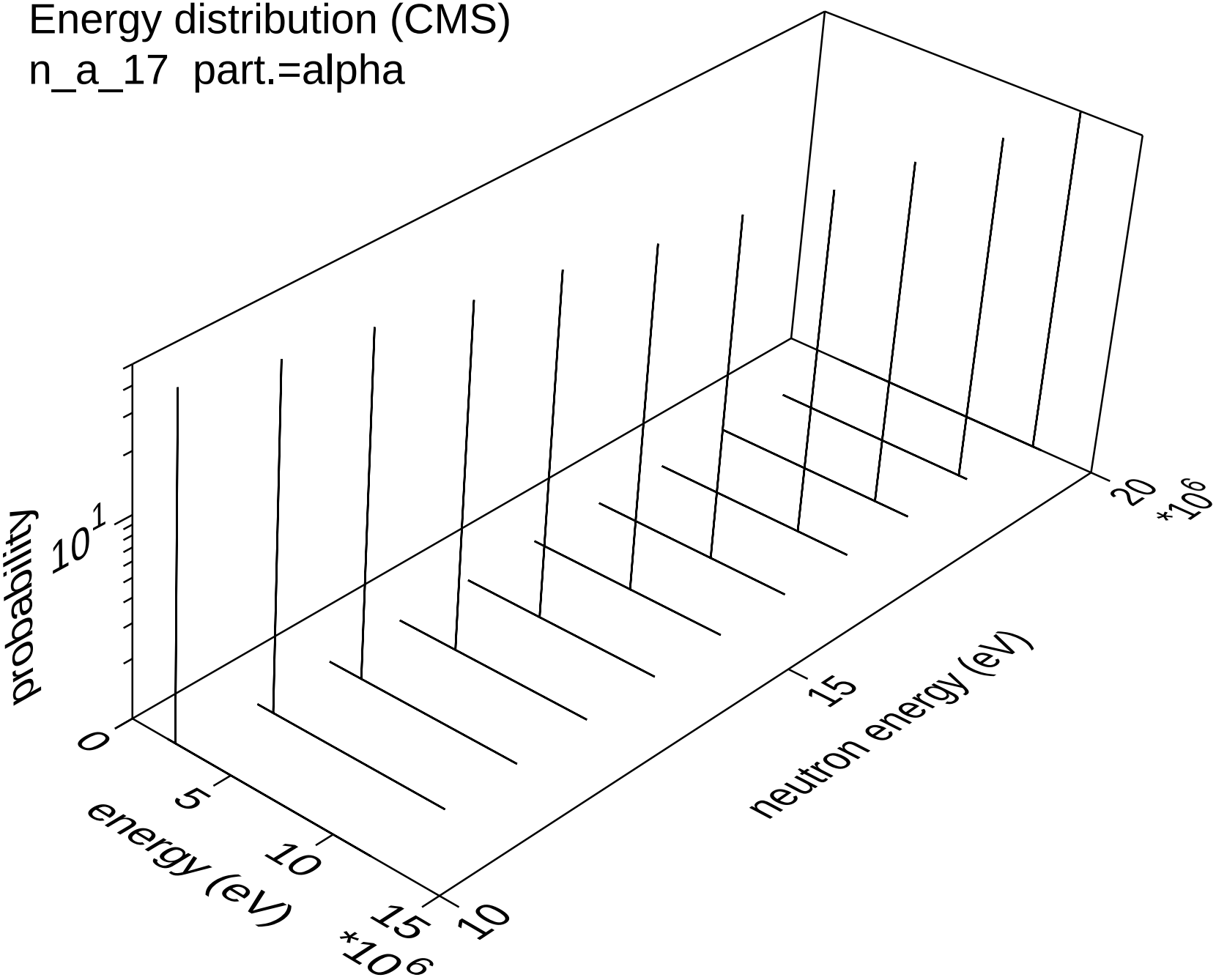

Energy distribution (CMS)
n_a_14 part.=gamma
probability
10^{1}
10^{0}
10^{-1}
0
1
2
3
4
5
energy (eV)
*10 6
10
15
20
neutron energy (eV)
*10^6

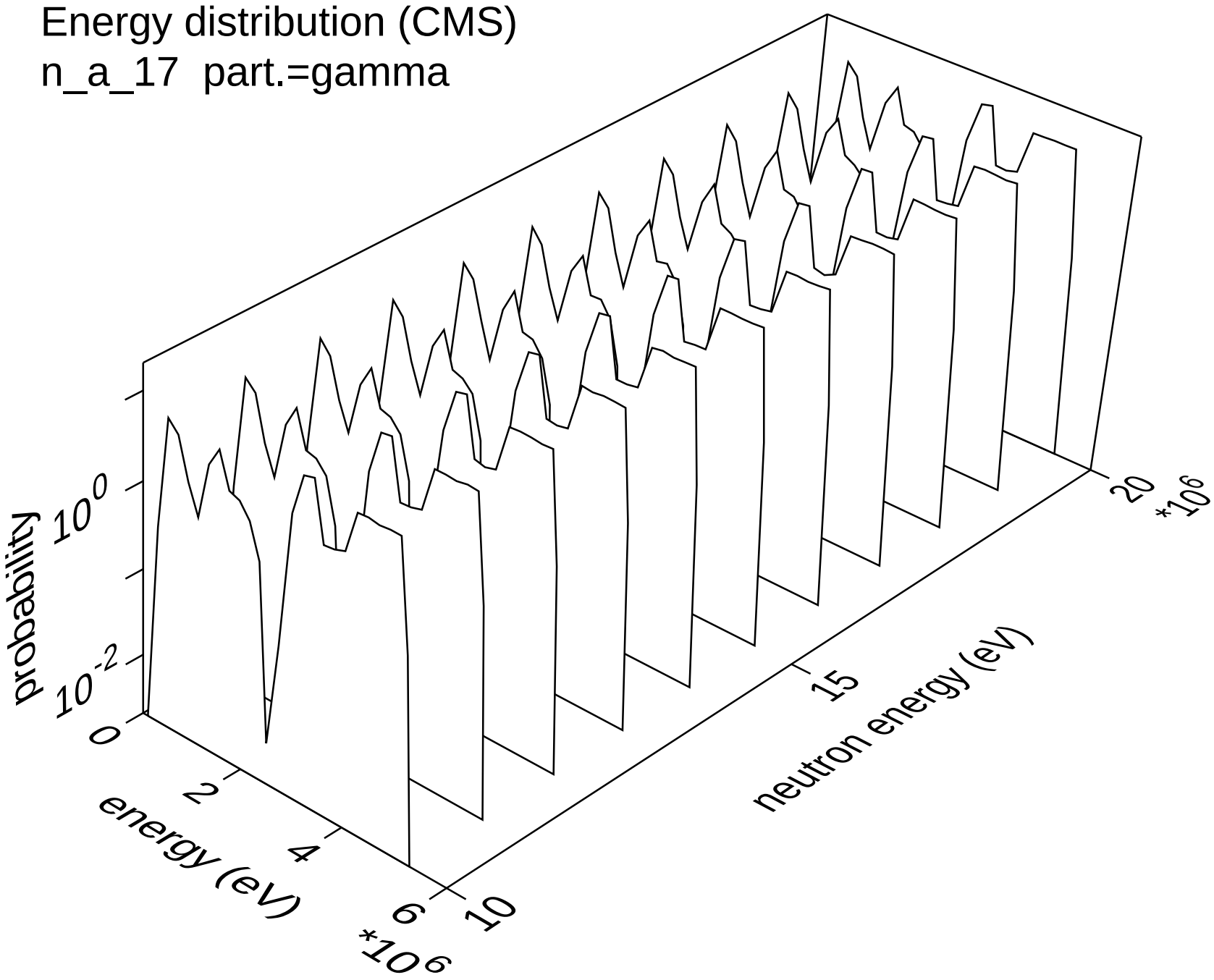

Energy distribution (CMS)
n_a_15 part.=alpha
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

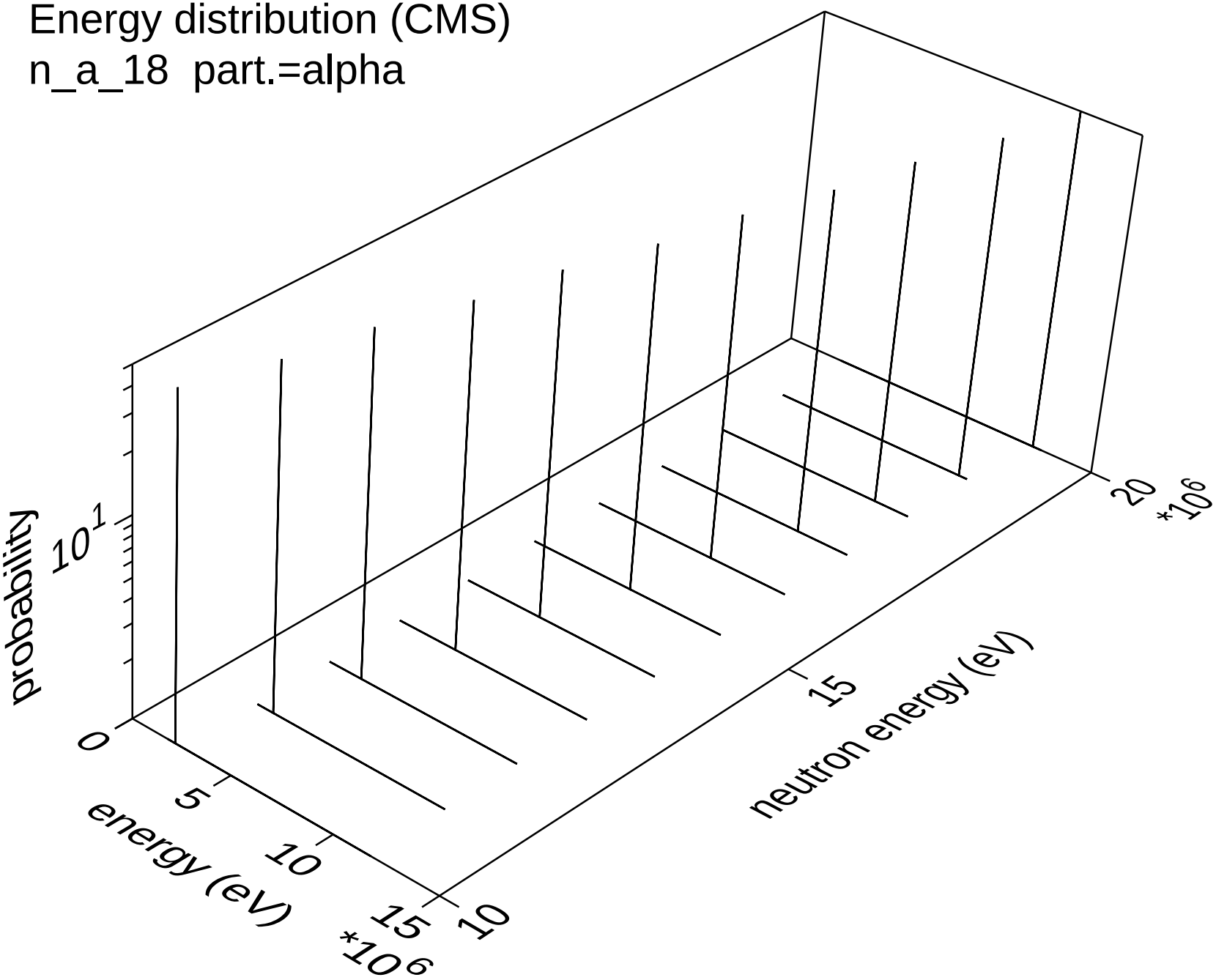

Energy distribution (CMS)
n_a_15 part.=gamma
probability
10^1
10^0
0
energy (eV)
1
2
3
*10 6
5
10
15
neutron energy (eV)
20
*10 6

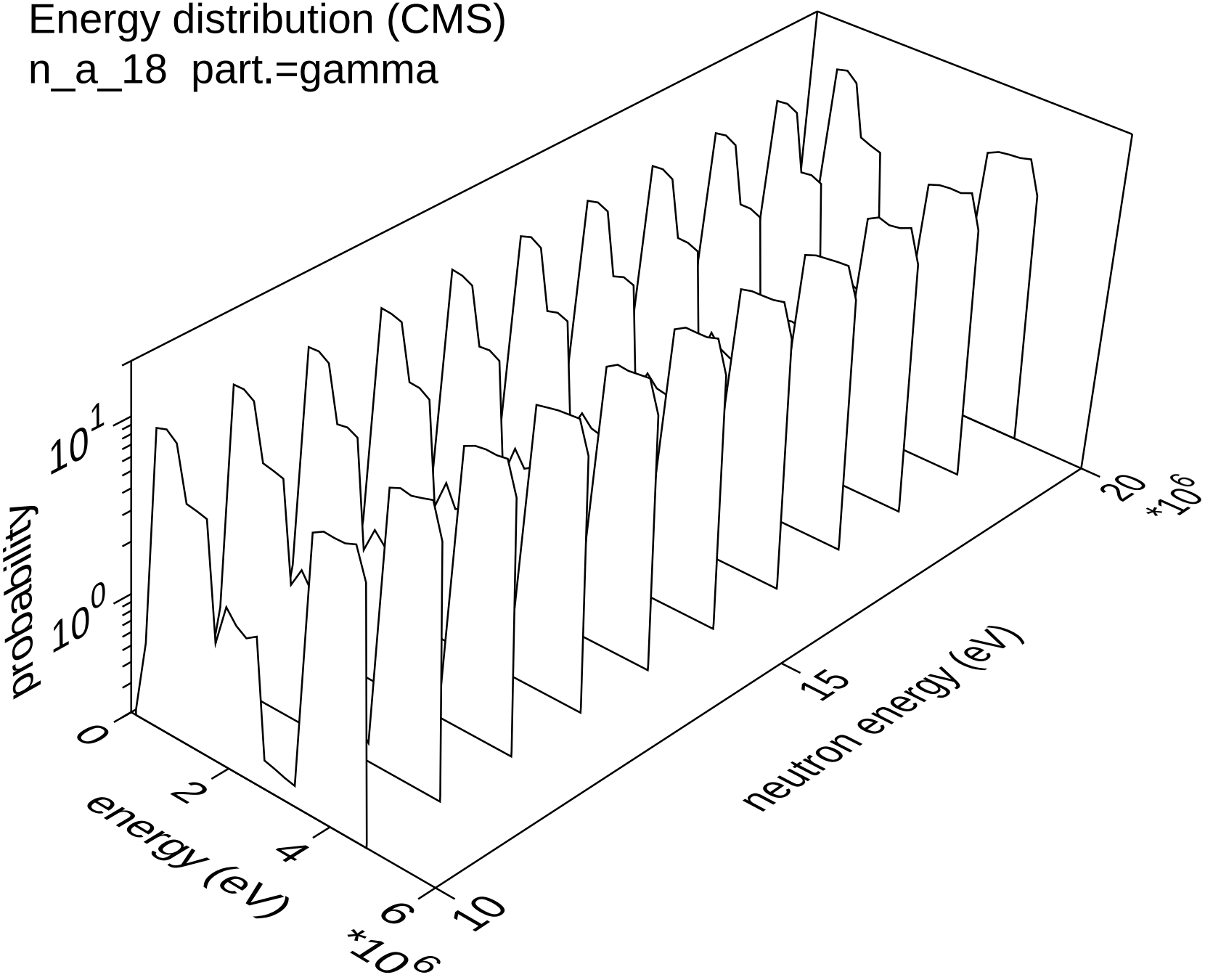

Energy distribution (CMS)
n_a_16 part.=alpha
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
5
10
15
20
*10^6
neutron energy (eV)

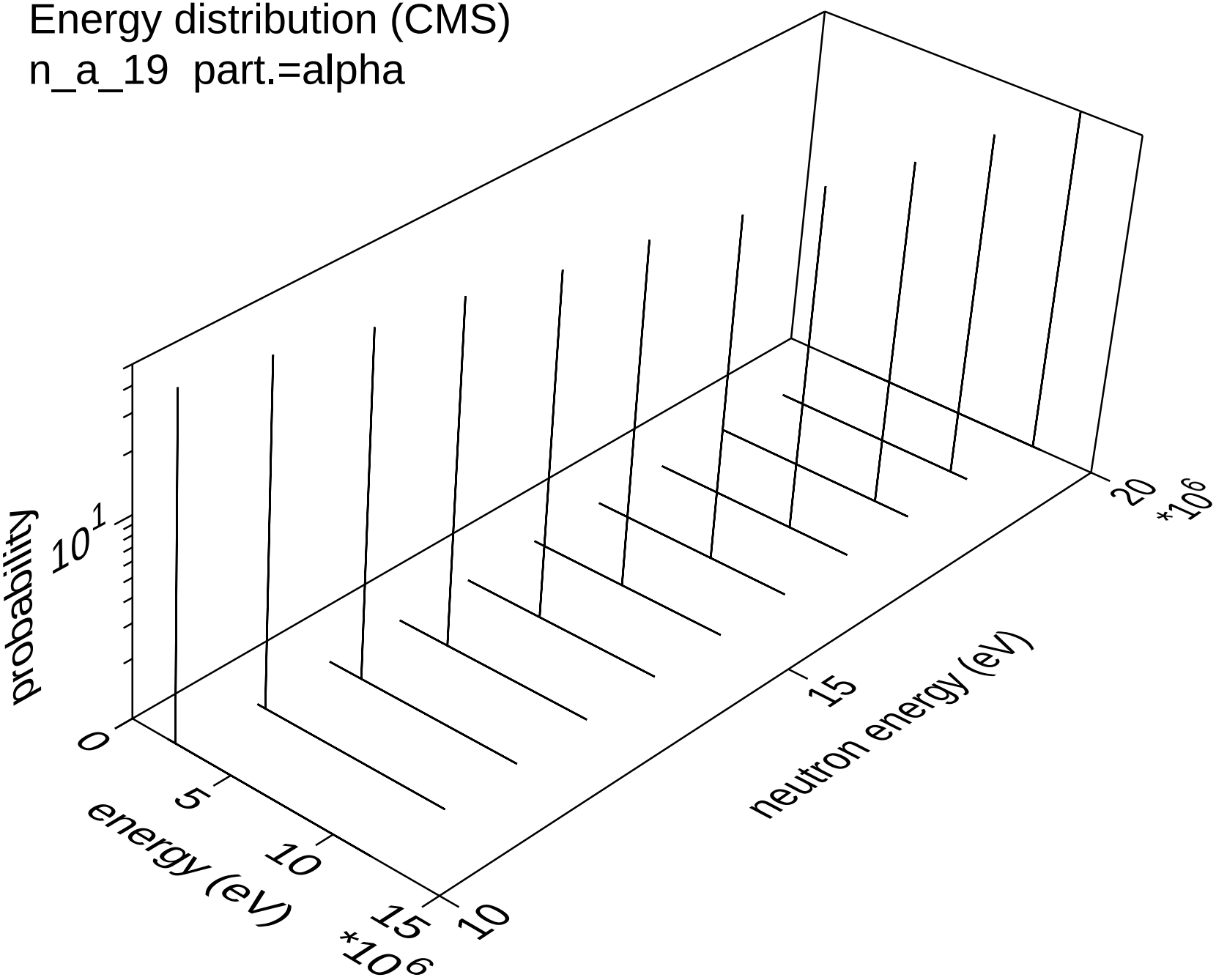

Energy distribution (CMS)
n_a_16 part.=gamma
probability
10^1
10^0
0
2
4
6
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

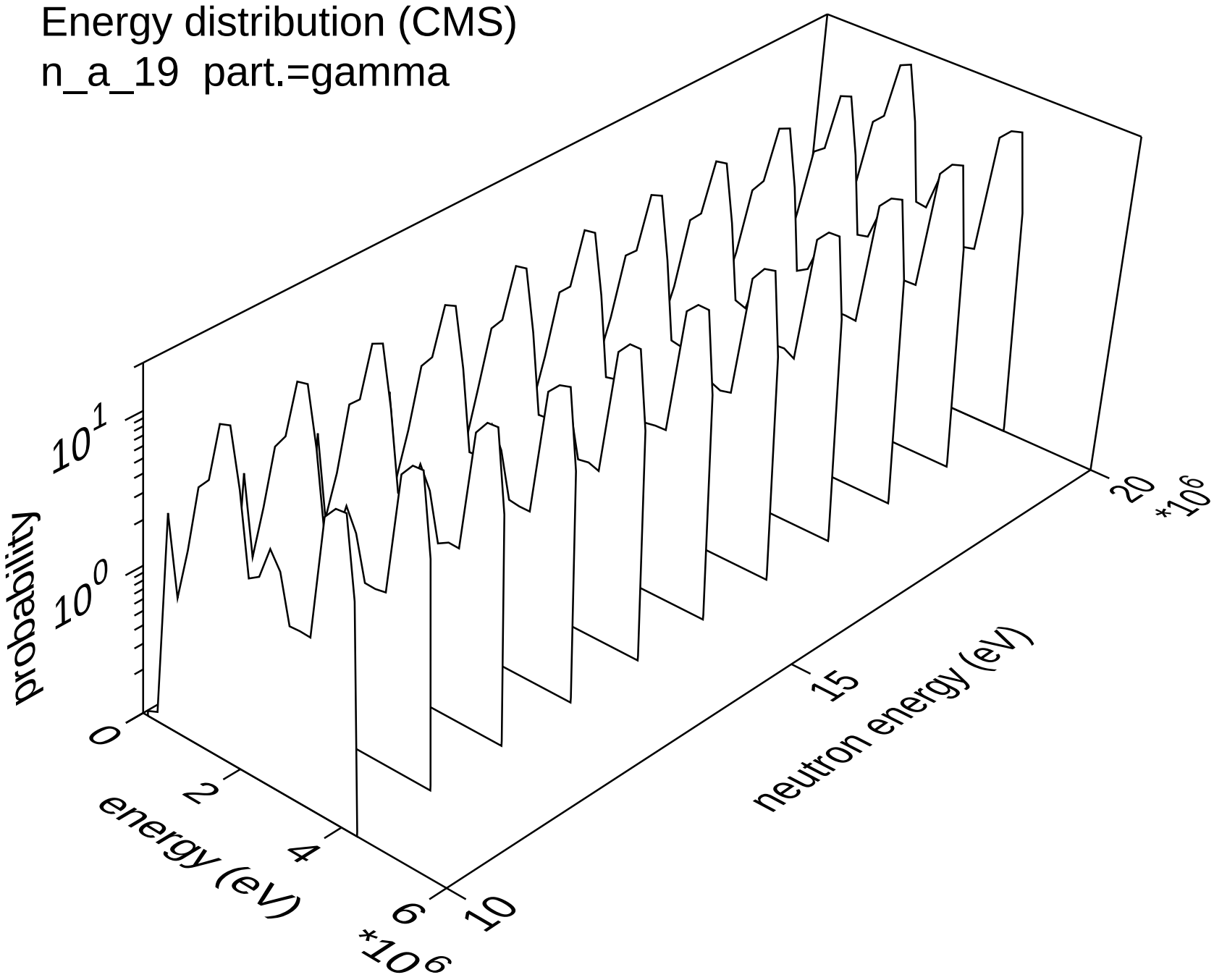

Energy distribution (CMS)
n_a_17 part.=alpha
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
10
15
neutron energy (eV)
20
*10^6

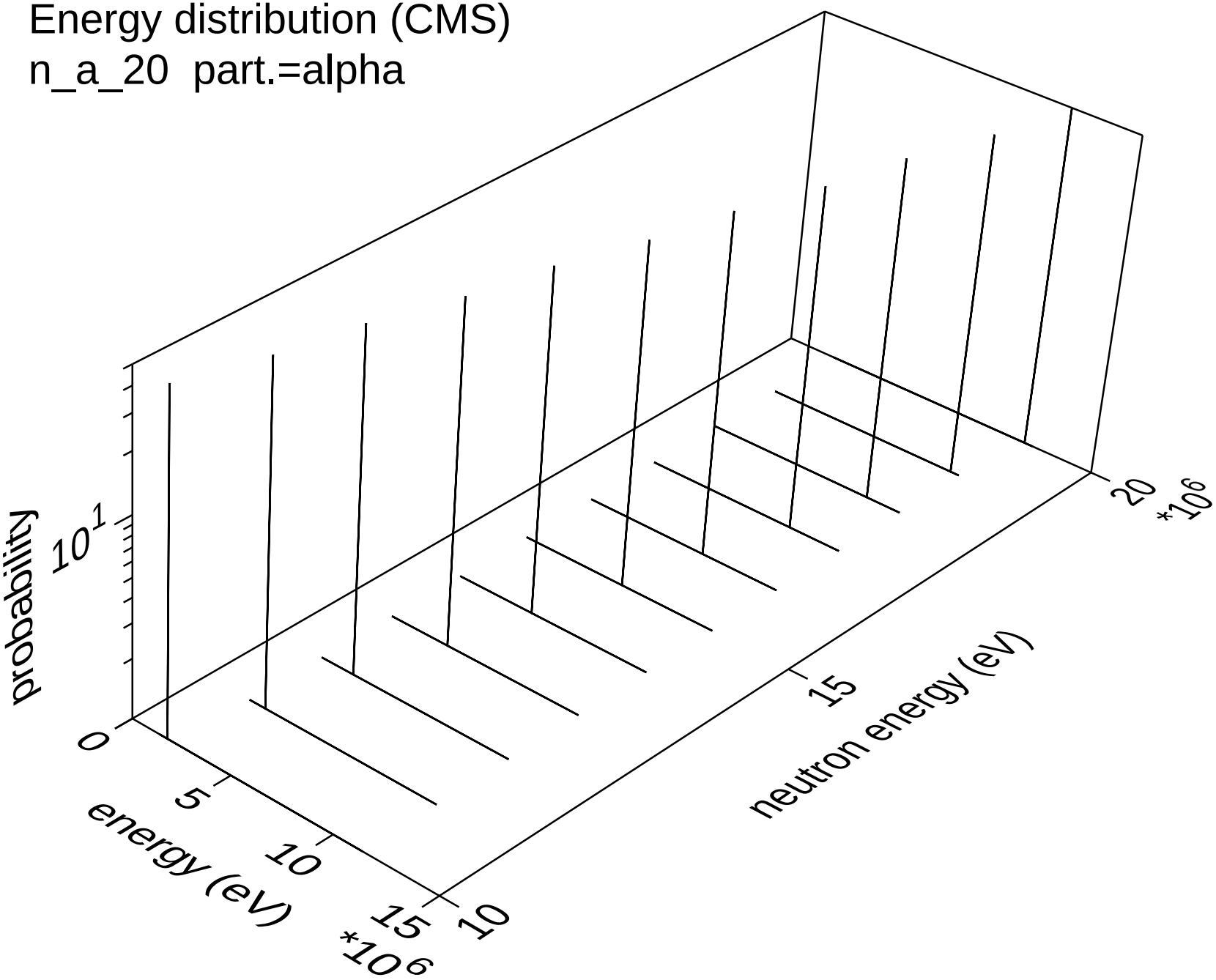

Energy distribution (CMS)
n_a_17 part.=gamma
probability
10^0
10^{-2}
0
2
4
6
*10^6
energy (eV)
10
15
20
*10^6
neutron energy (eV)

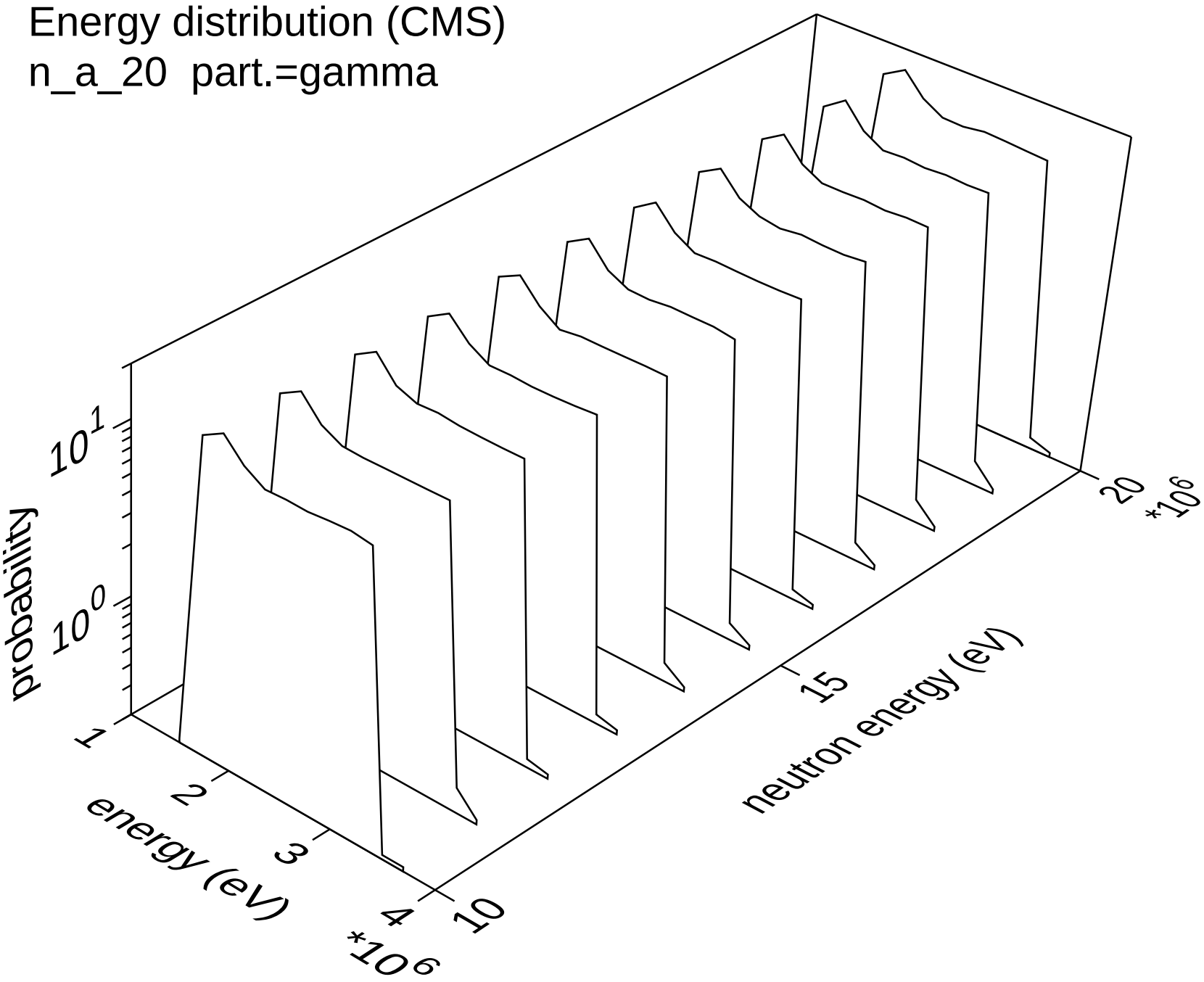

Energy distribution (CMS)
n_a_18 part.=alpha
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
10
15
neutron energy (eV)
20
*10^6

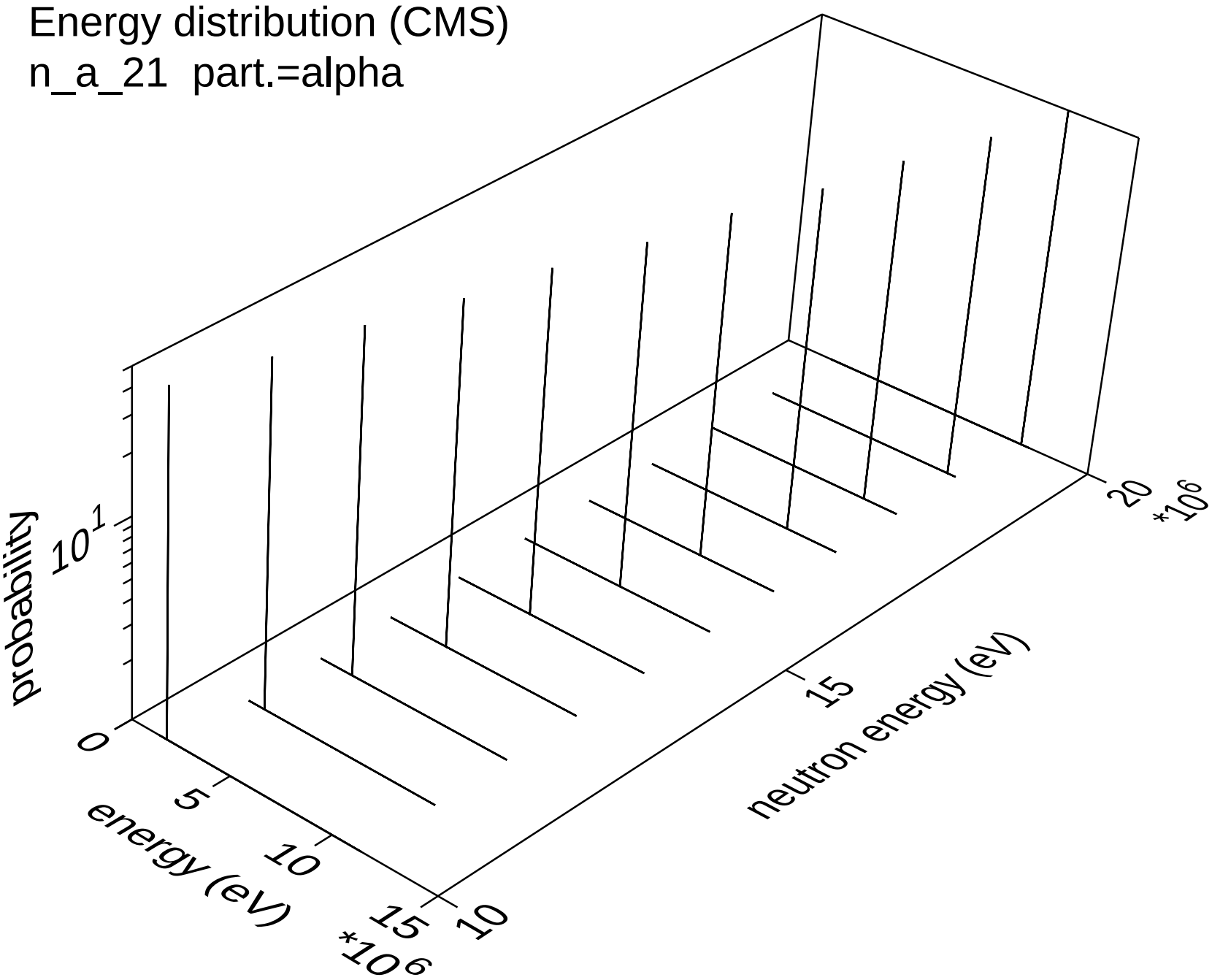

Energy distribution (CMS)
n_a_18 part.=gamma
probability
10^1
10^0
0
2
4
6
*10^6
energy (eV)
10
15
20
*10^6
neutron energy (eV)

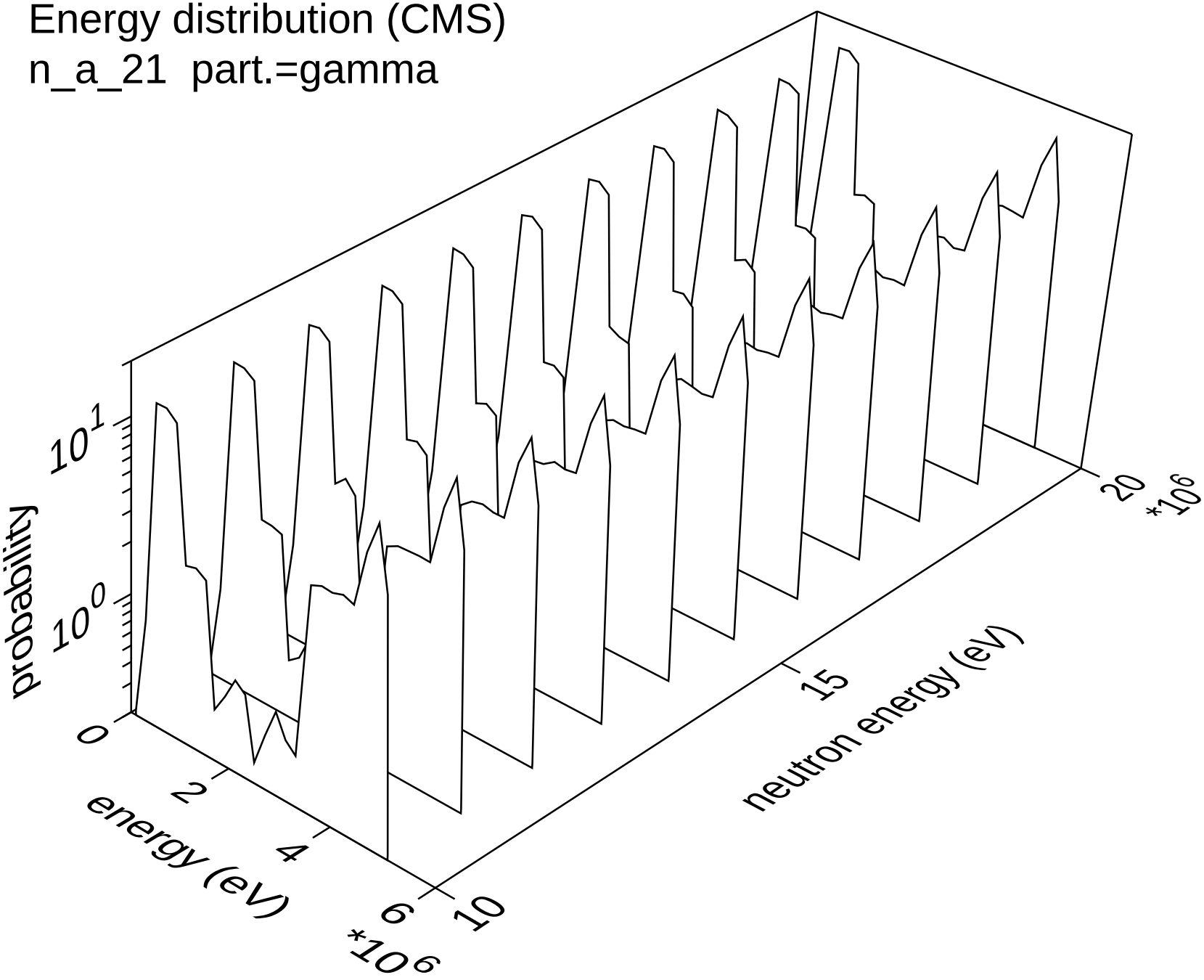

Energy distribution (CMS)
n_a_19 part.=alpha
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
10
15
neutron energy (eV)
20
*10^6

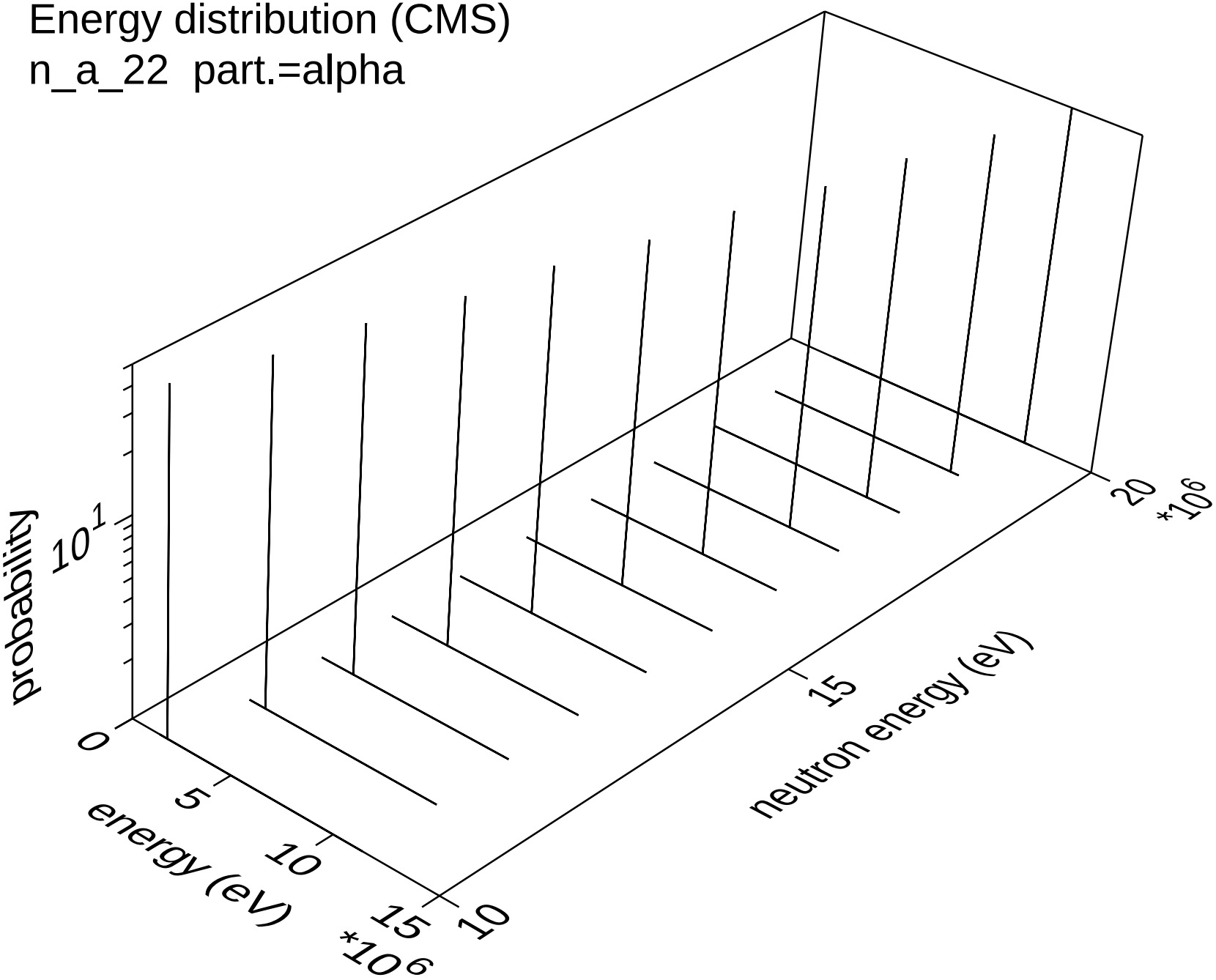

Energy distribution (CMS)
n_a_19 part.=gamma
probability
10^1
10^0
0
2
4
6
*10^6
energy (eV)
10
15
20
*10^6
neutron energy (eV)

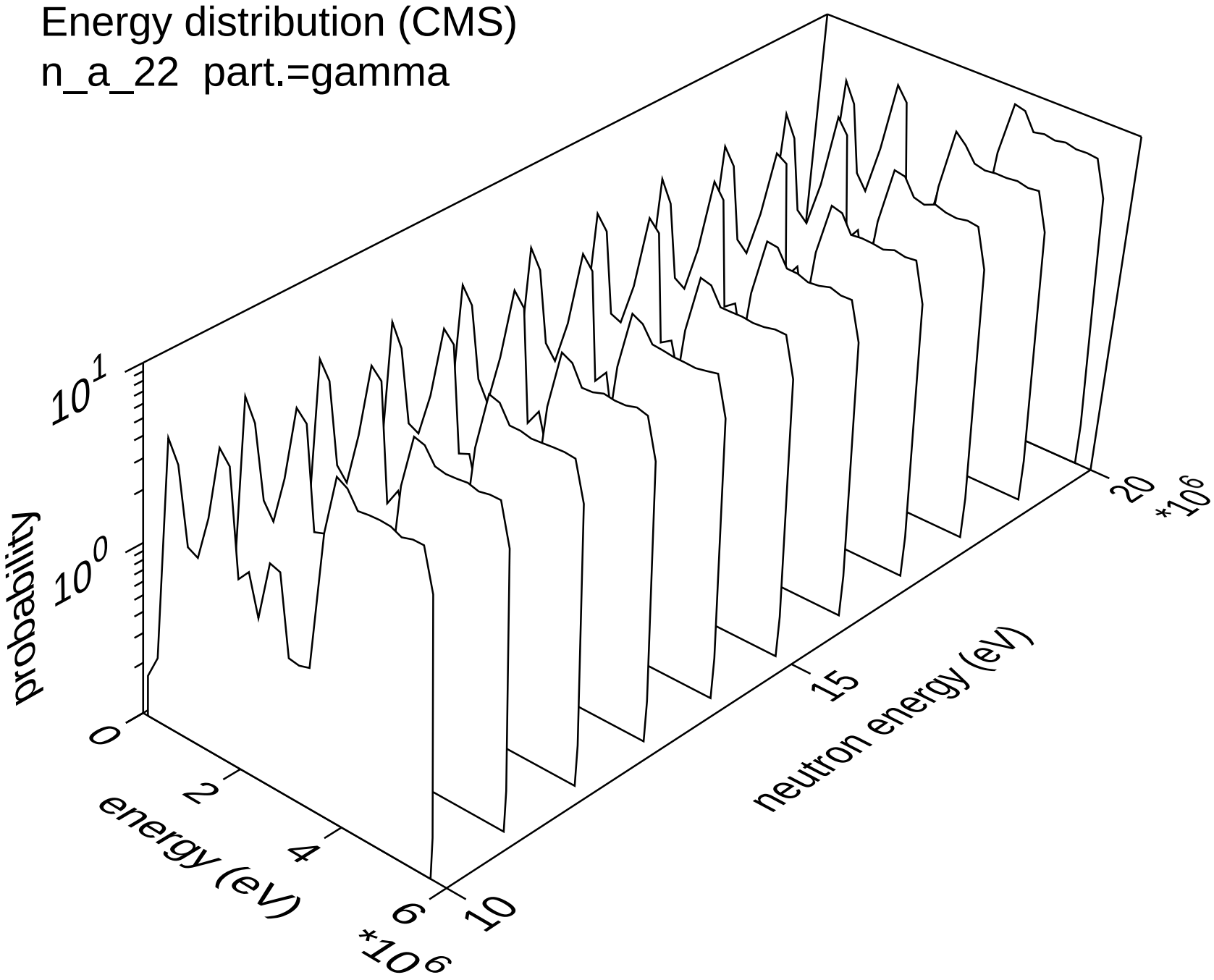

Energy distribution (CMS)
n_a_20 part.=alpha
probability
10^{-1}
0
energy (eV)
5
10
15
*10^6
10
15
neutron energy (eV)
20
*10^6

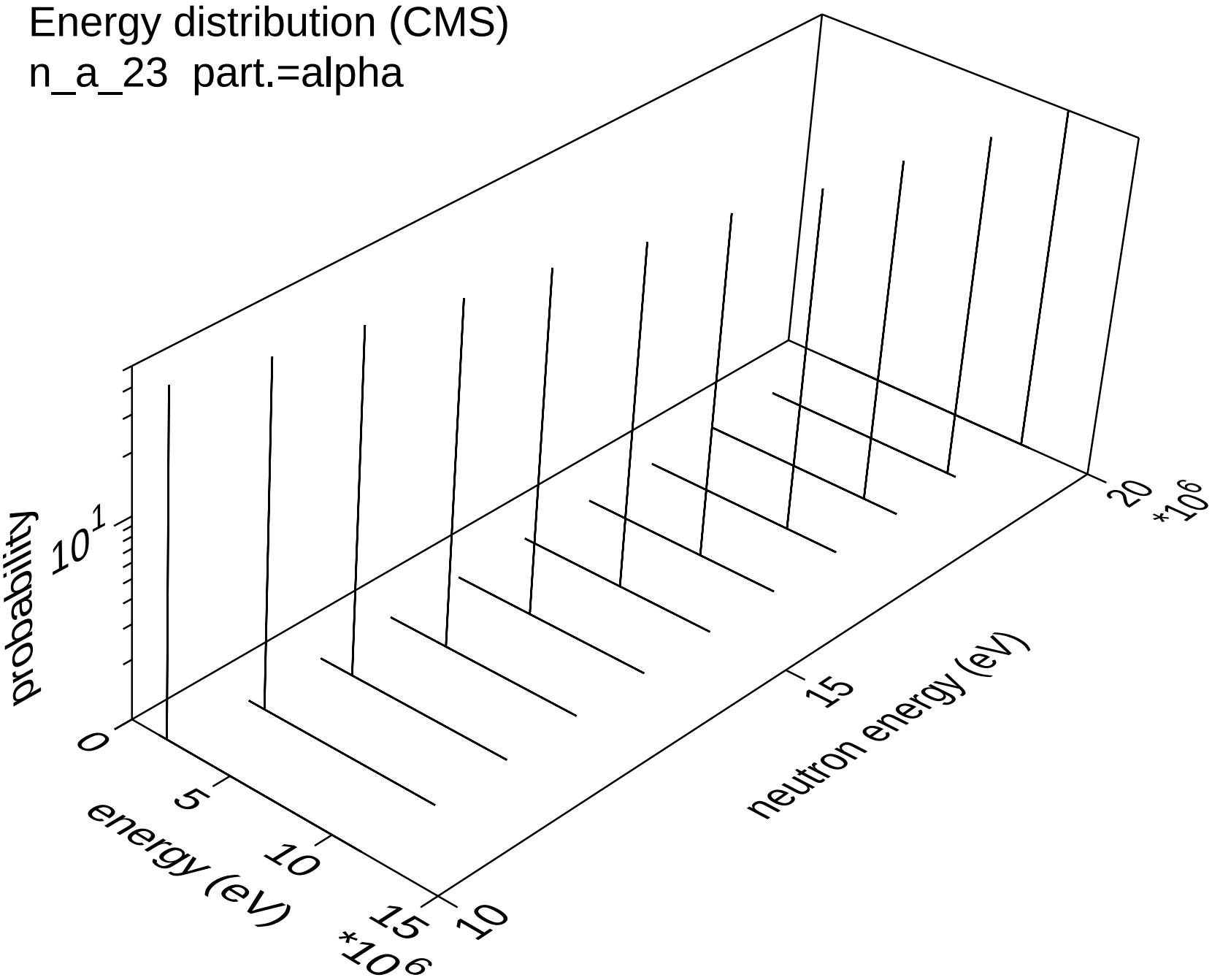

Energy distribution (CMS)
n_a_20 part.=gamma
probability
10^1
10^0
1
2
3
4
energy (eV)
*10 6
10
15
20
*10^6
neutron energy (eV)

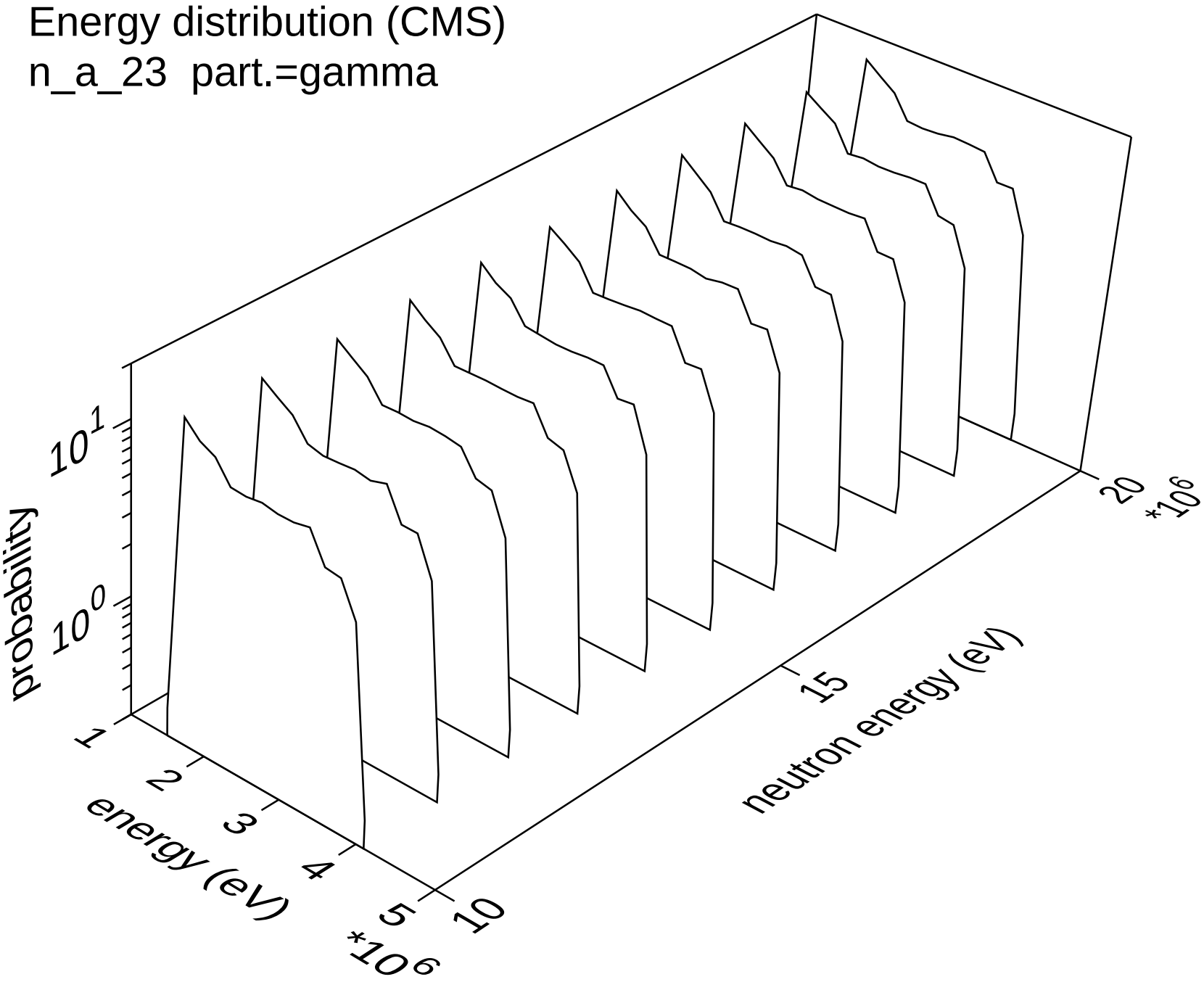

Energy distribution (CMS)
n_a_21 part.=alpha
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
10
15
neutron energy (eV)
20
*10^6

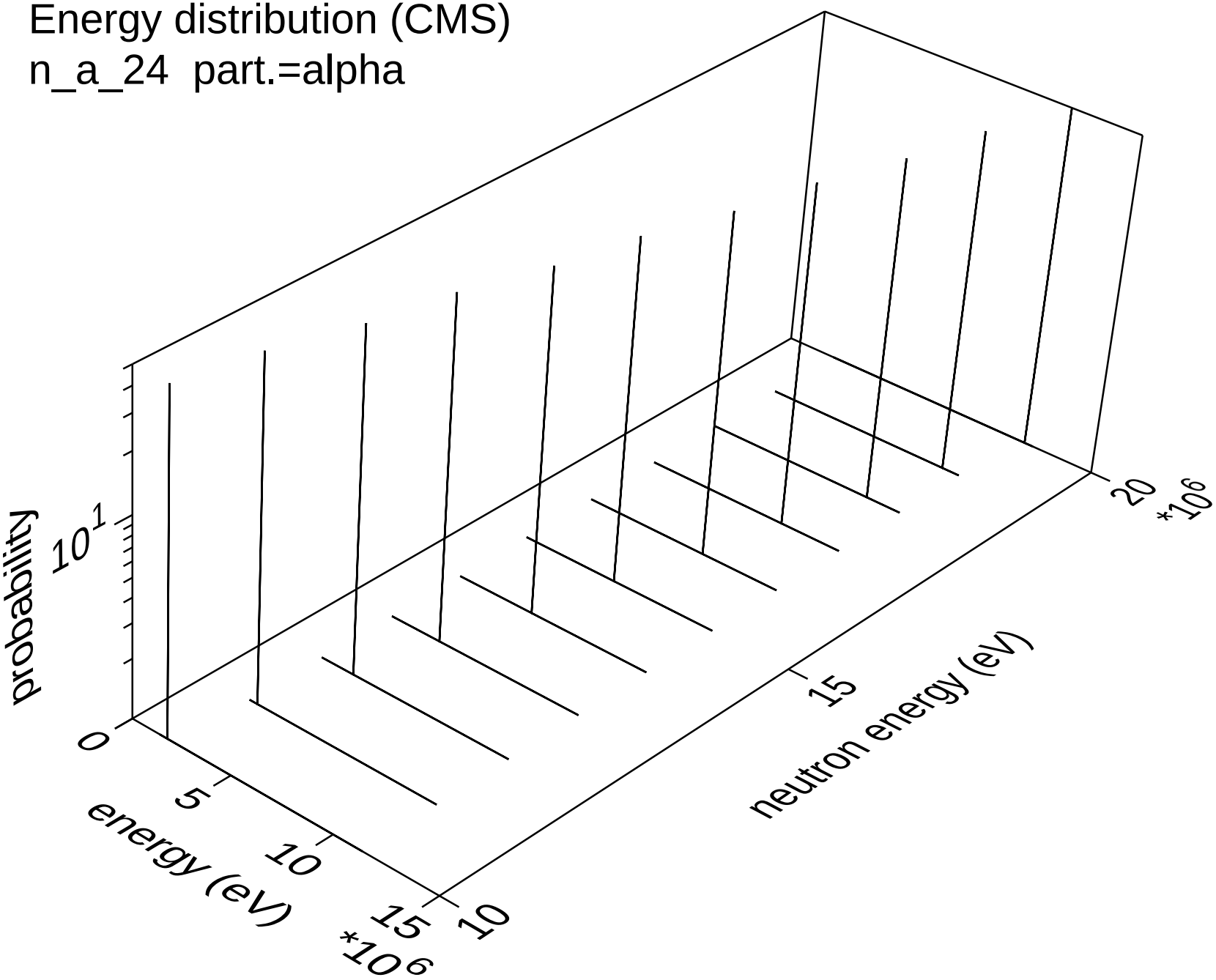

Energy distribution (CMS)
n_a_21 part.=gamma
probability
10^1
10^0
0
2
4
6
*10^6
energy (eV)
10
15
20
*10^6
neutron energy (eV)

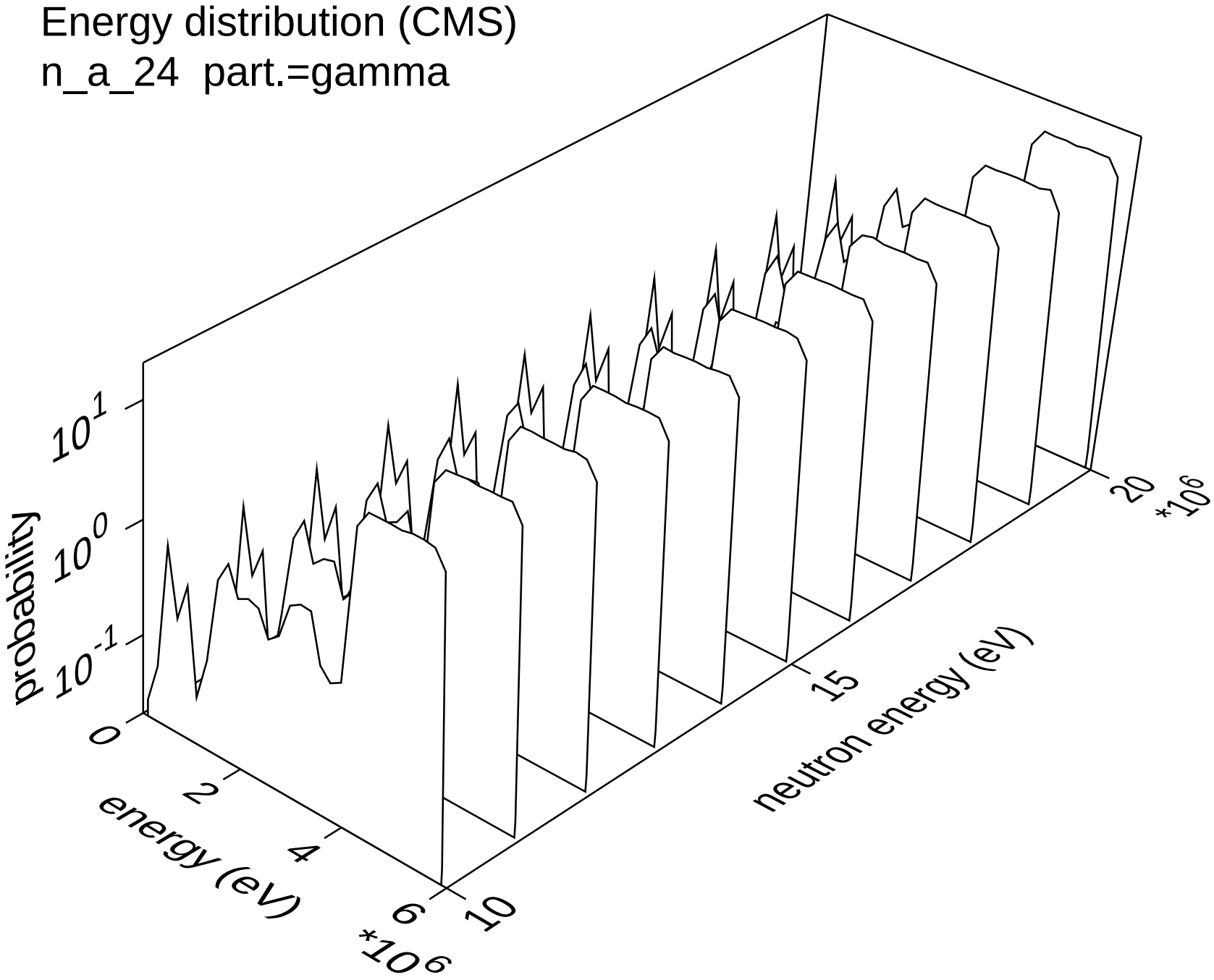

Energy distribution (CMS)
n_a_22 part.=alpha
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
10
15
neutron energy (eV)
20
*10^6

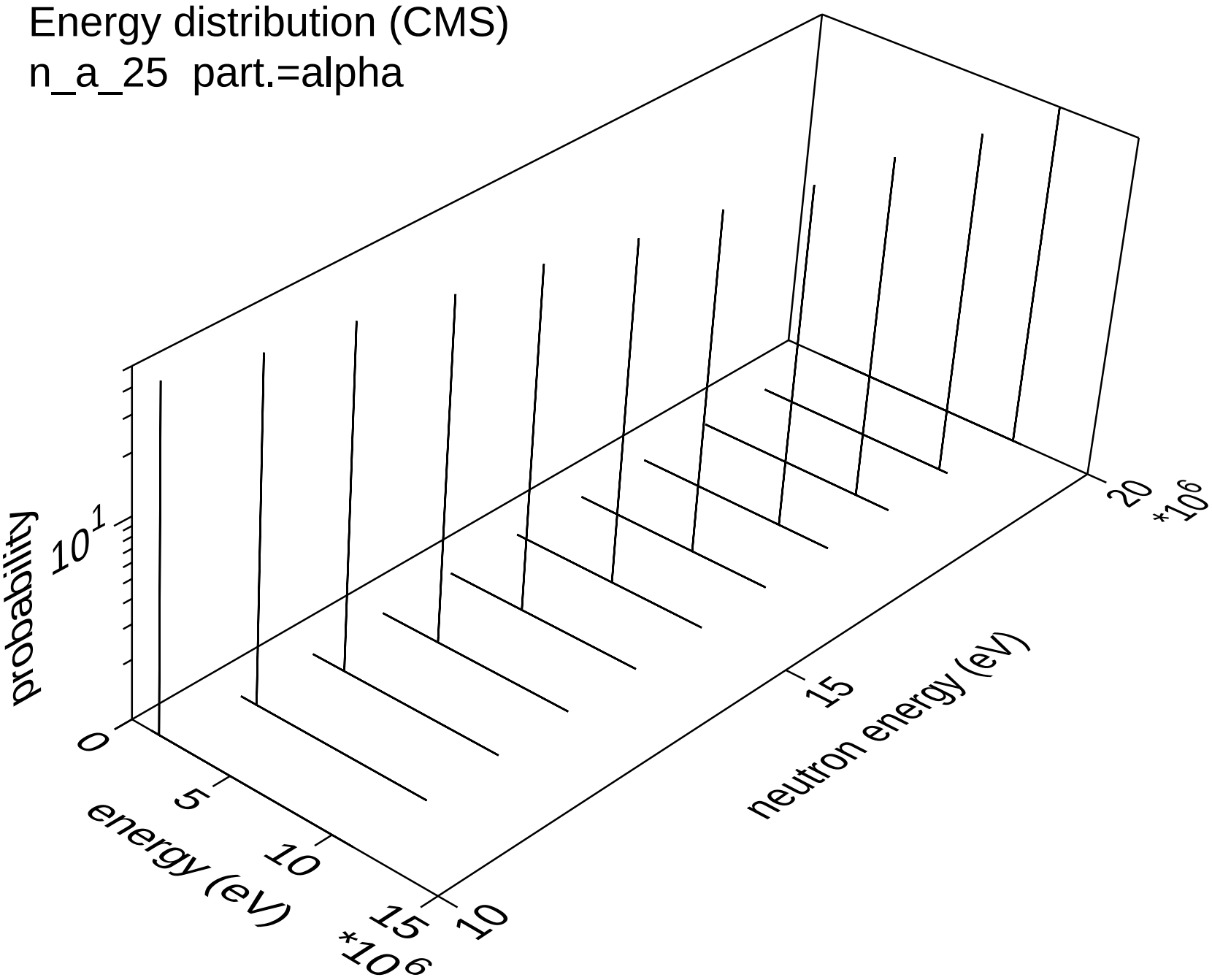

Energy distribution (CMS)
n_a_22 part.=gamma
probability
10^1
10^0
0
2
4
6
*10^6
energy (eV)
10
15
20
*10^6
neutron energy (eV)

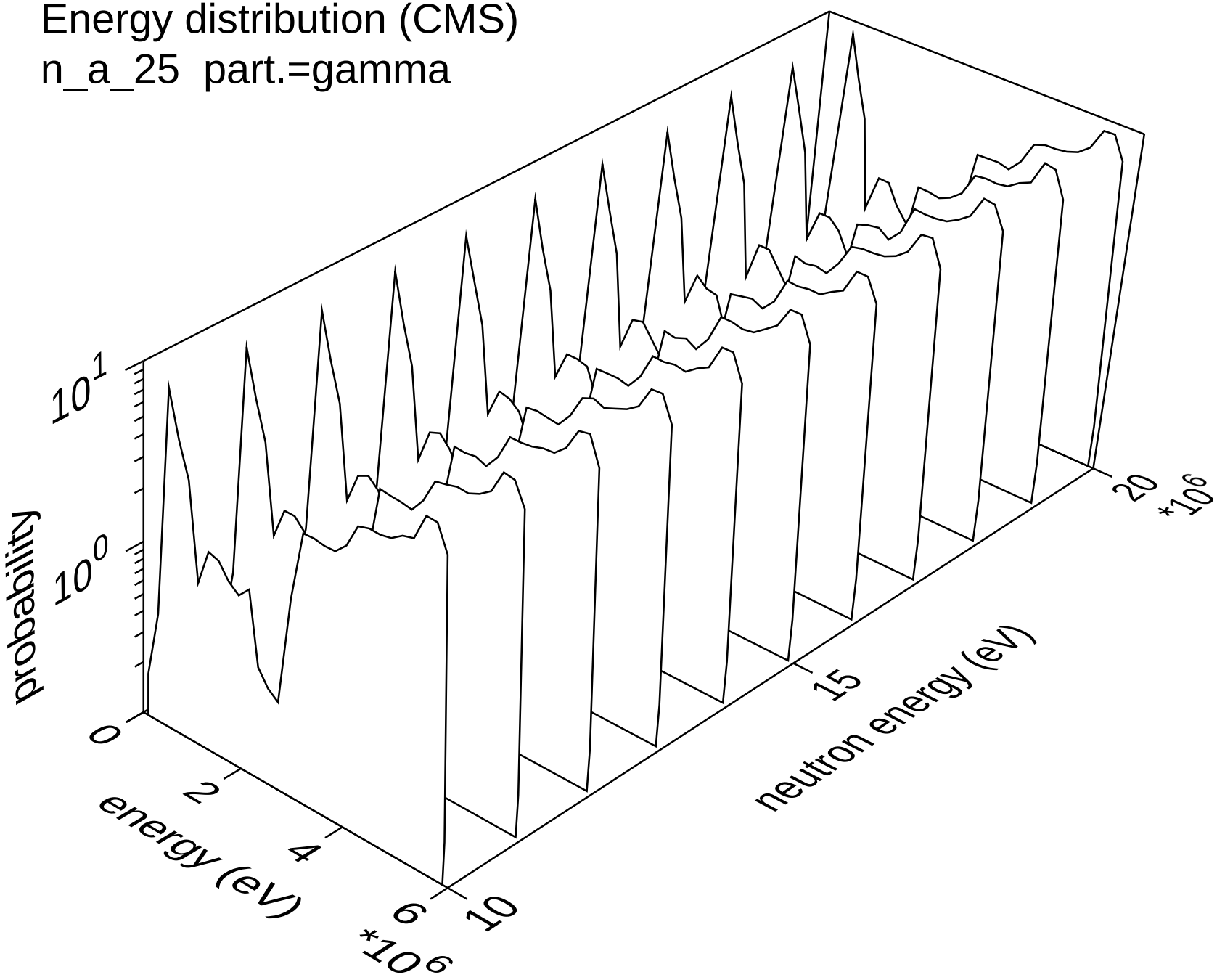

Energy distribution (CMS)
n_a_23 part.=alpha
probability
10^{-1}
0
energy (eV)
5
10
15
*10^6
10
15
neutron energy (eV)
20
*10^6

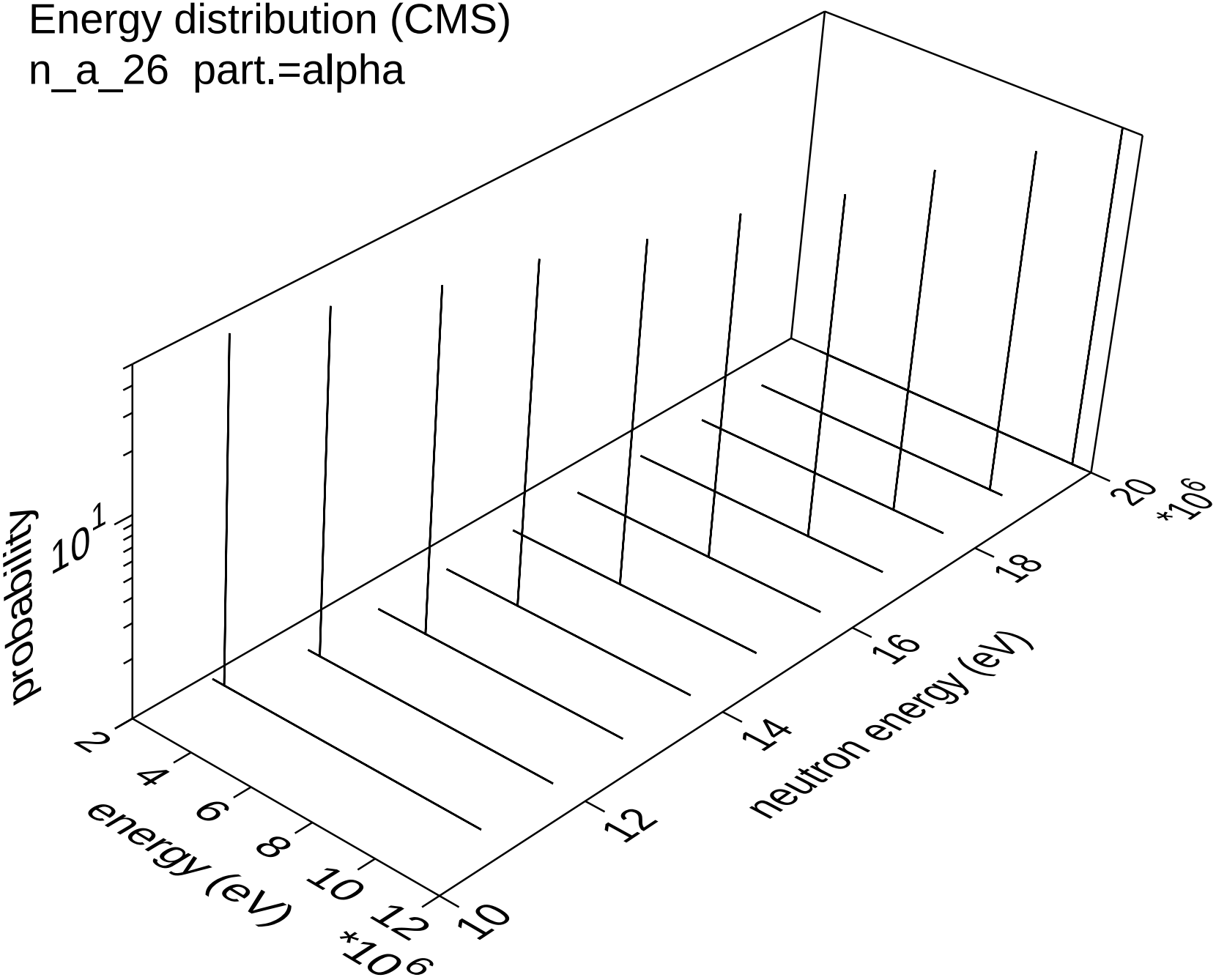

Energy distribution (CMS)
n_a_23 part.=gamma
probability
10^1
10^0
1
2
3
4
5
*10 6
energy (eV)
10
15
20
*10 6
neutron energy (eV)

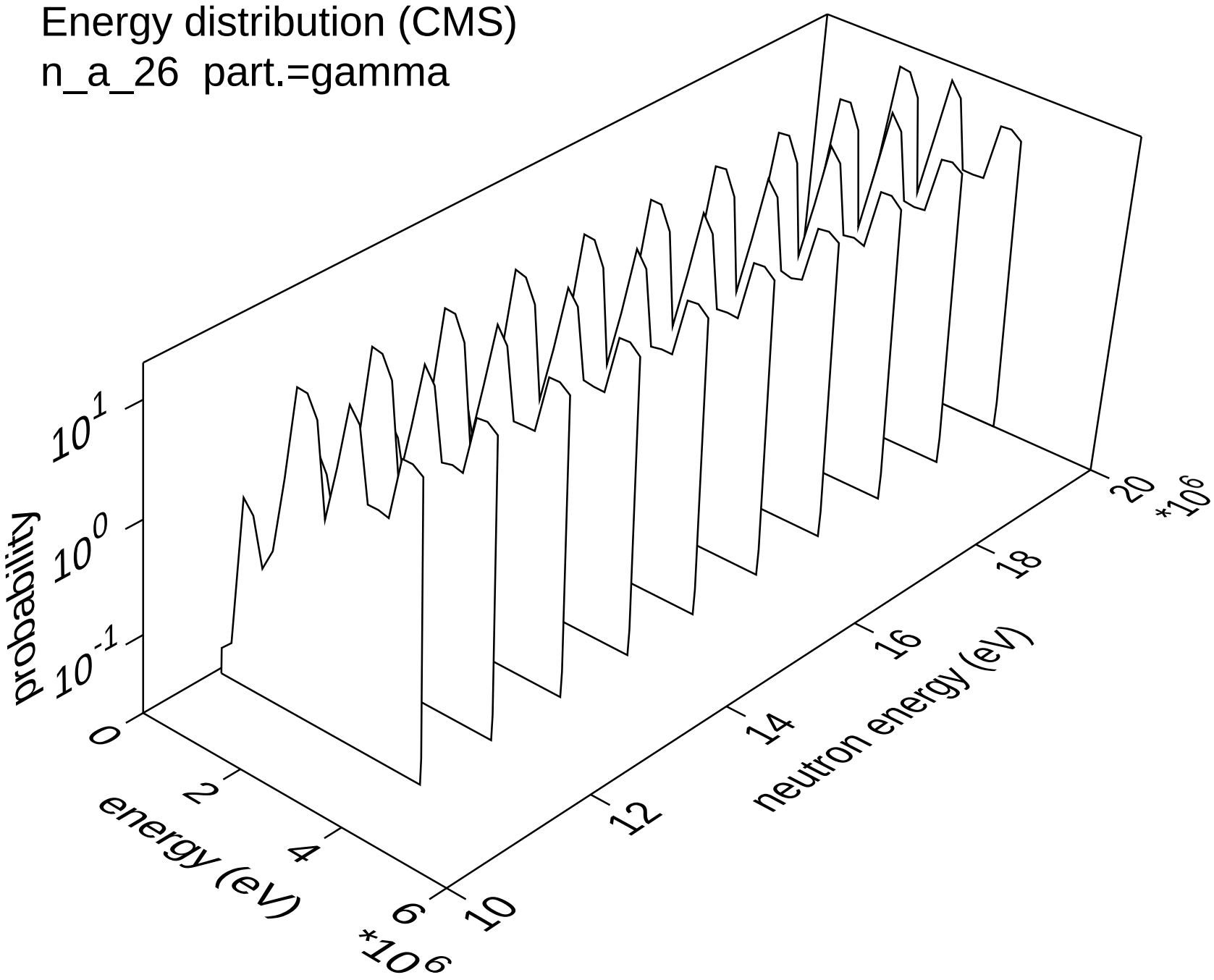

Energy distribution (CMS)
n_a_24 part.=alpha
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
10
15
neutron energy (eV)
20
*10^6

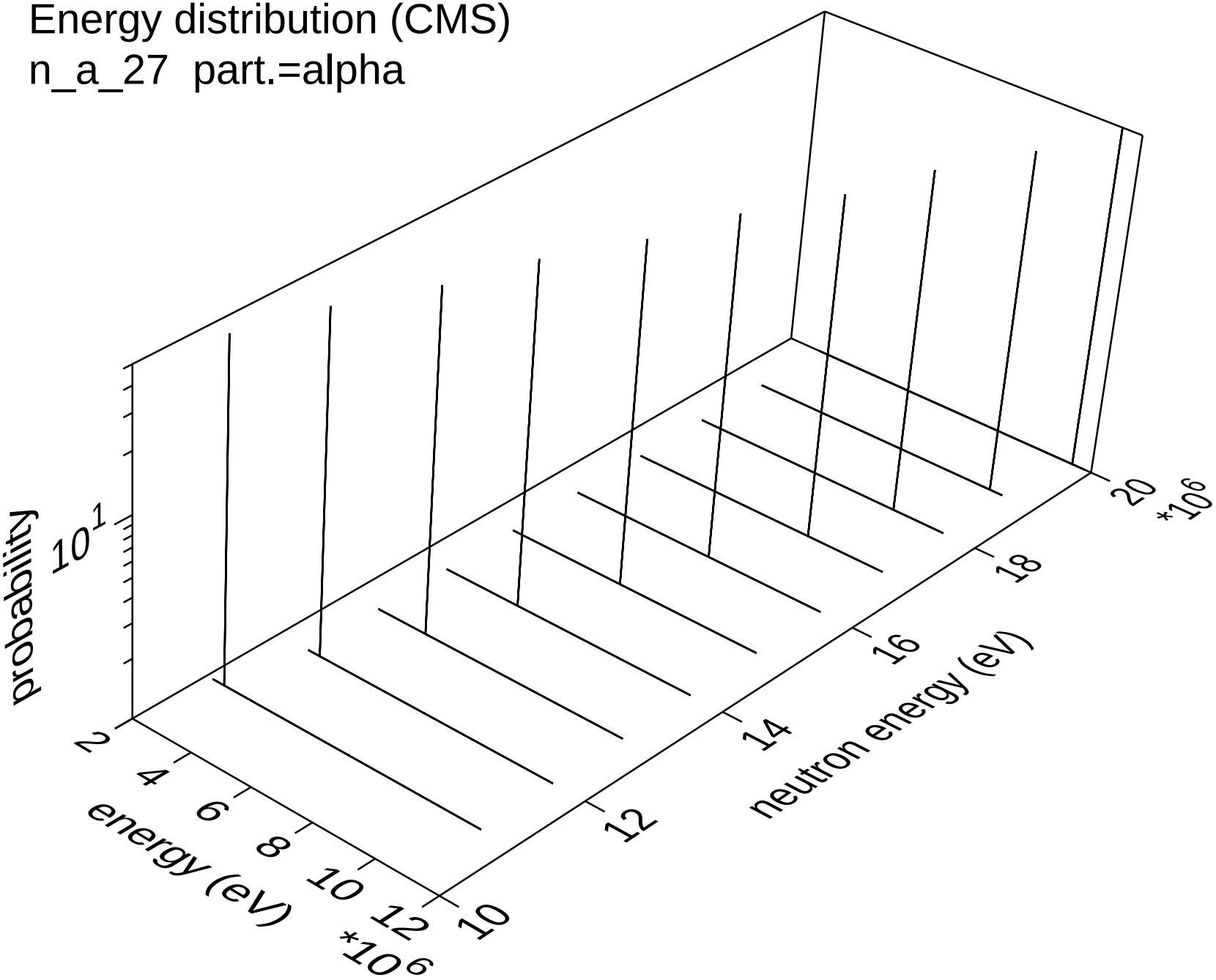

Energy distribution (CMS)
n_a_24 part.=gamma
probability
10^{1}
10^{0}
10^{-1}
0
2
4
6
*10^6
energy (eV)
10
15
20
*10^6
neutron energy (eV)

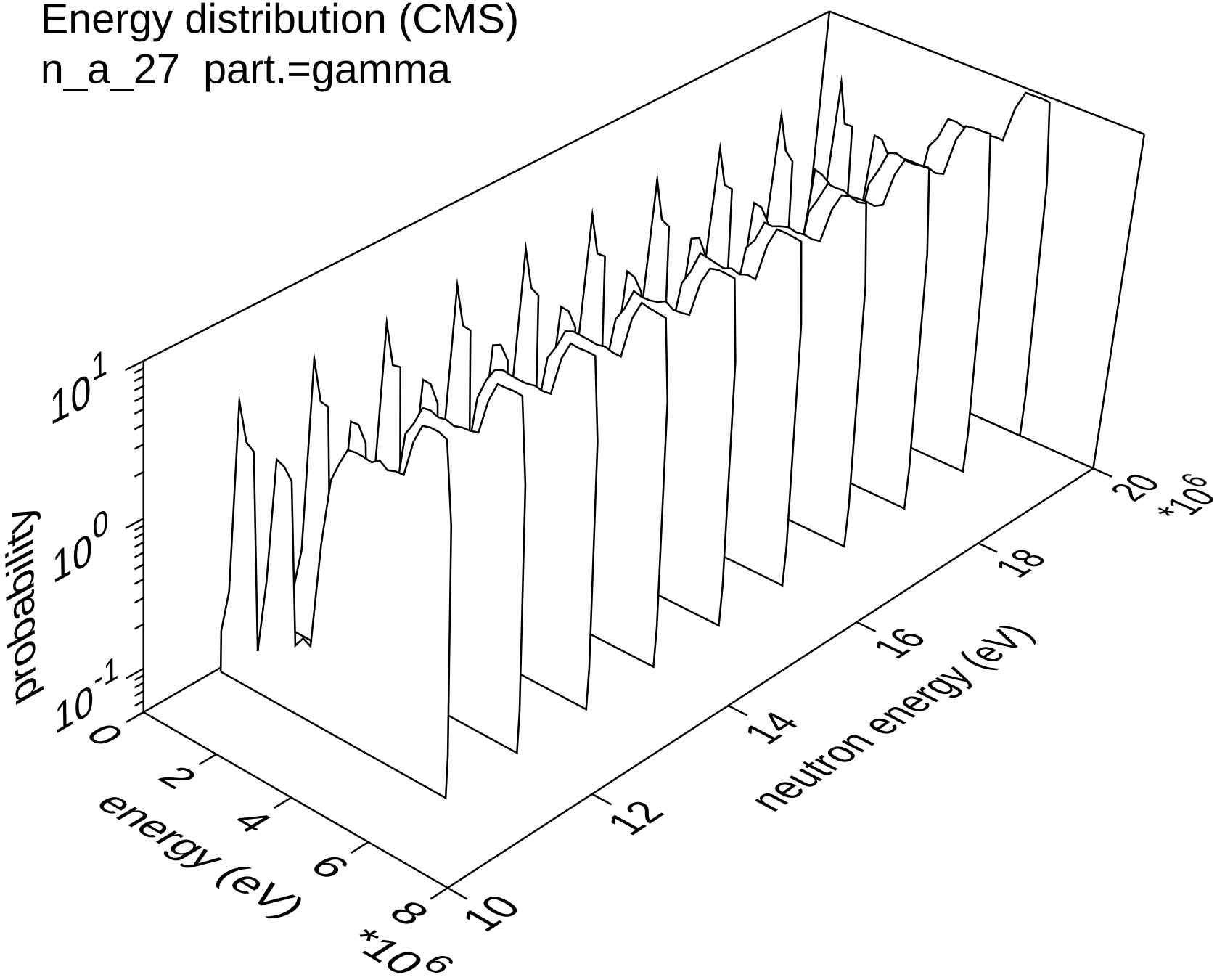

Energy distribution (CMS)
n_a_25 part.=alpha
probability
10^{1}
0
5
10
15
*10^6
energy (eV)
10
15
20
*10^6
neutron energy (eV)

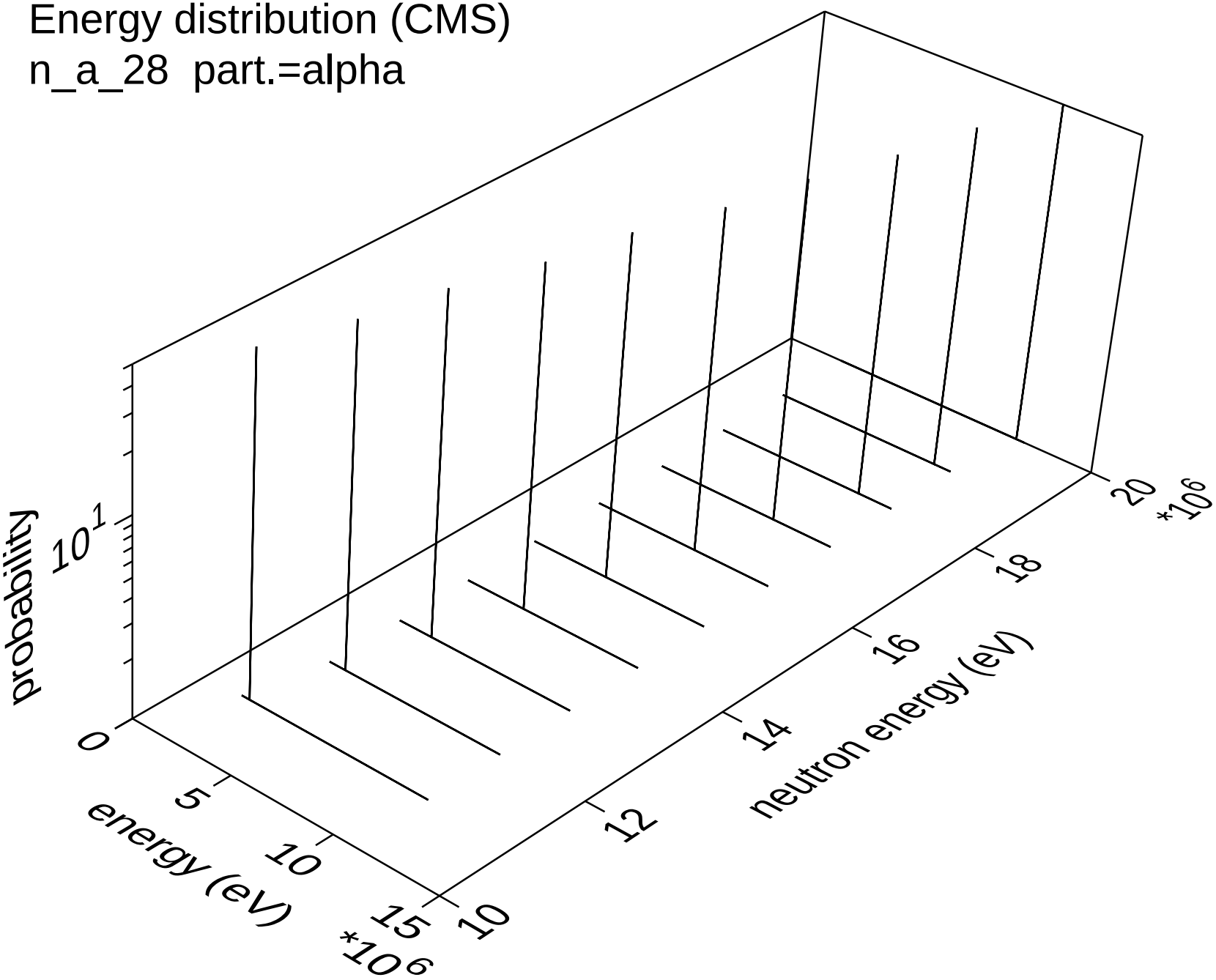

Energy distribution (CMS)
n_a_25 part.=gamma
probability
10^1
10^0
0
2
4
6
*10^6
energy (eV)
10
15
20
*10^6
neutron energy (eV)

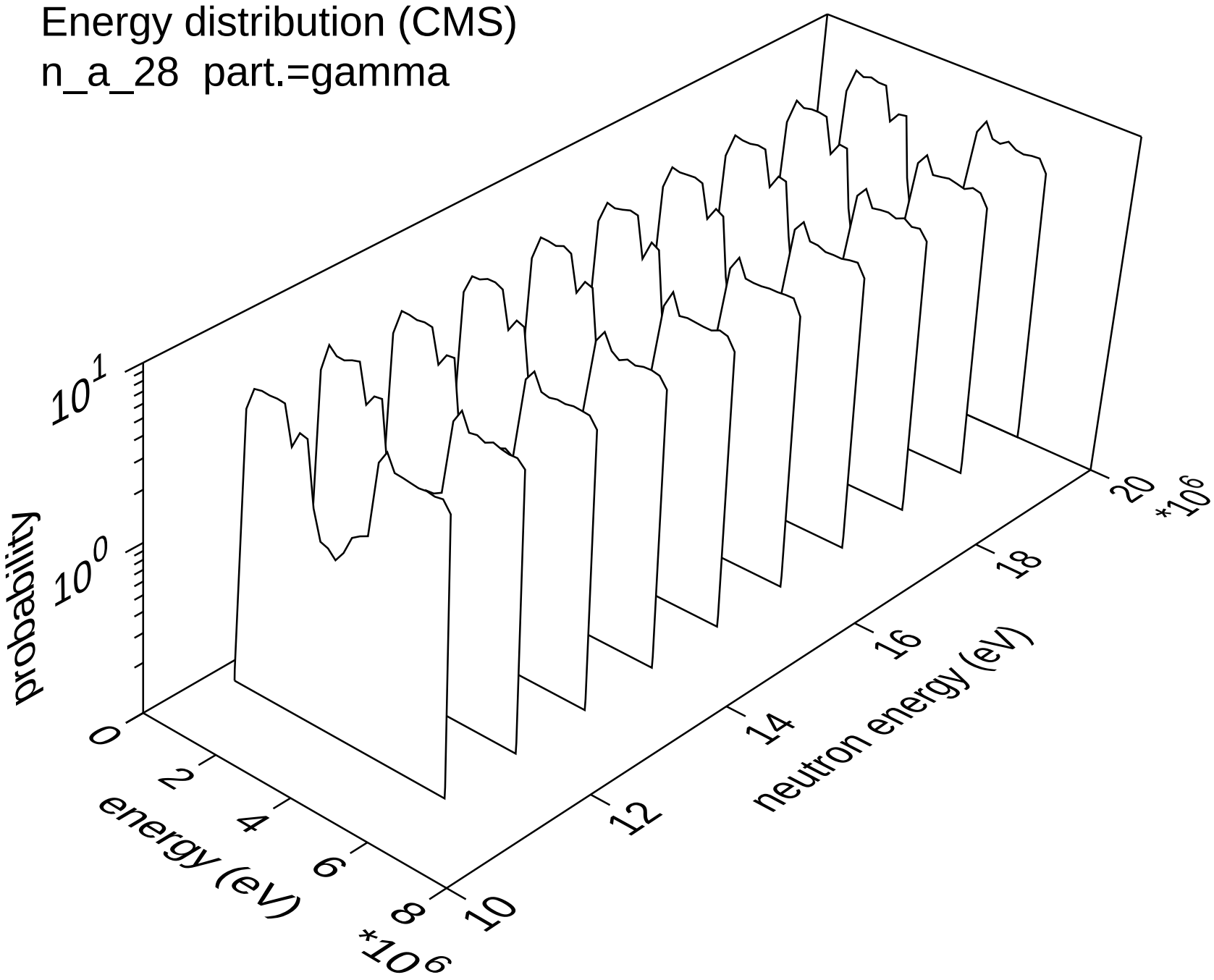

Energy distribution (CMS)
n_a_26 part.=alpha
probability
10^{-1}
2
4
6
8
10
12
energy (eV)
*10^6
10
12
14
16
18
20
neutron energy (eV)
*10^6

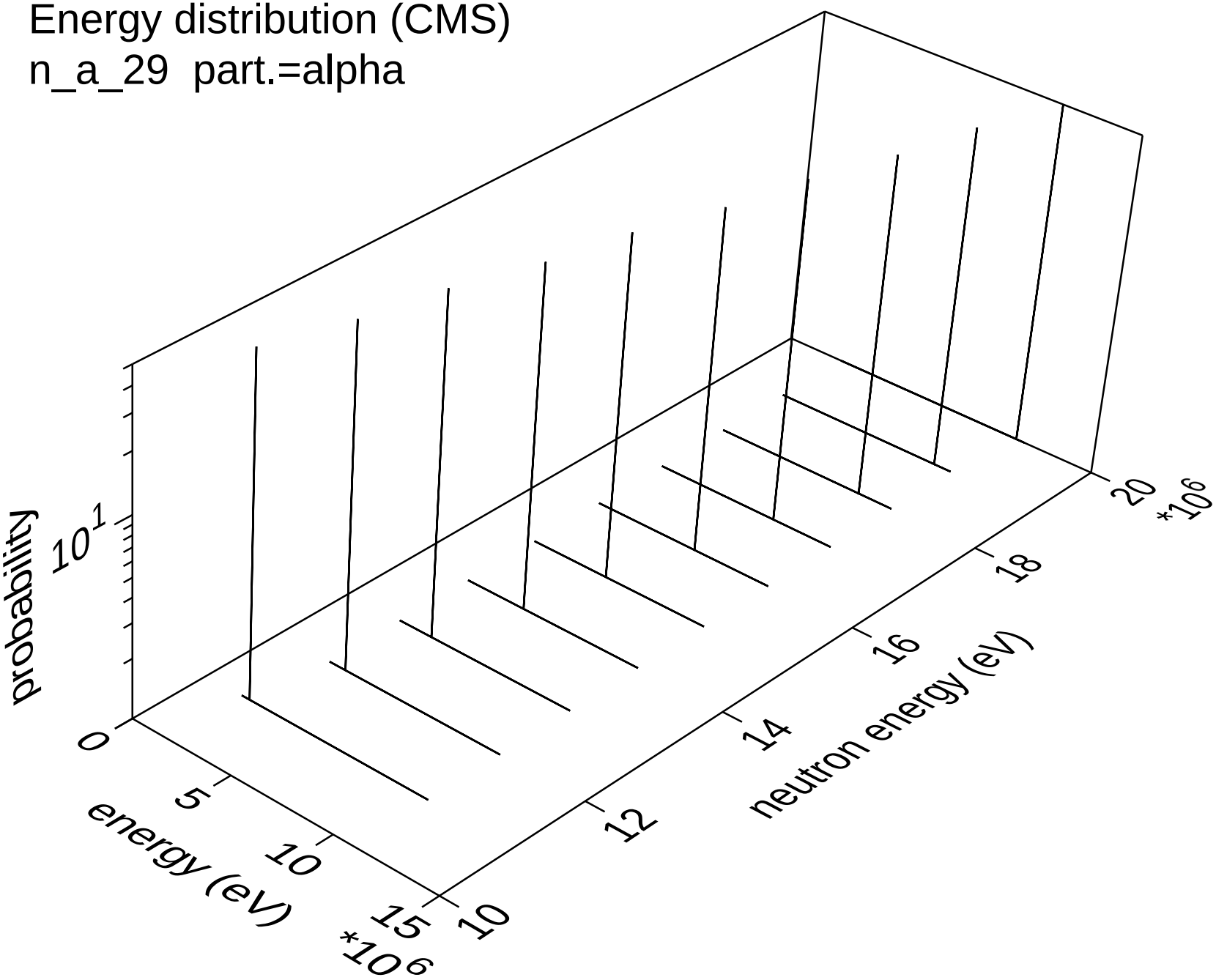

Energy distribution (CMS)
n_a_26 part.=gamma
probability
10^{1}
10^{0}
10^{-1}
0
2
4
6
*10^6
energy (eV)
10
12
14
16
18
20
*10^6
neutron energy (eV)

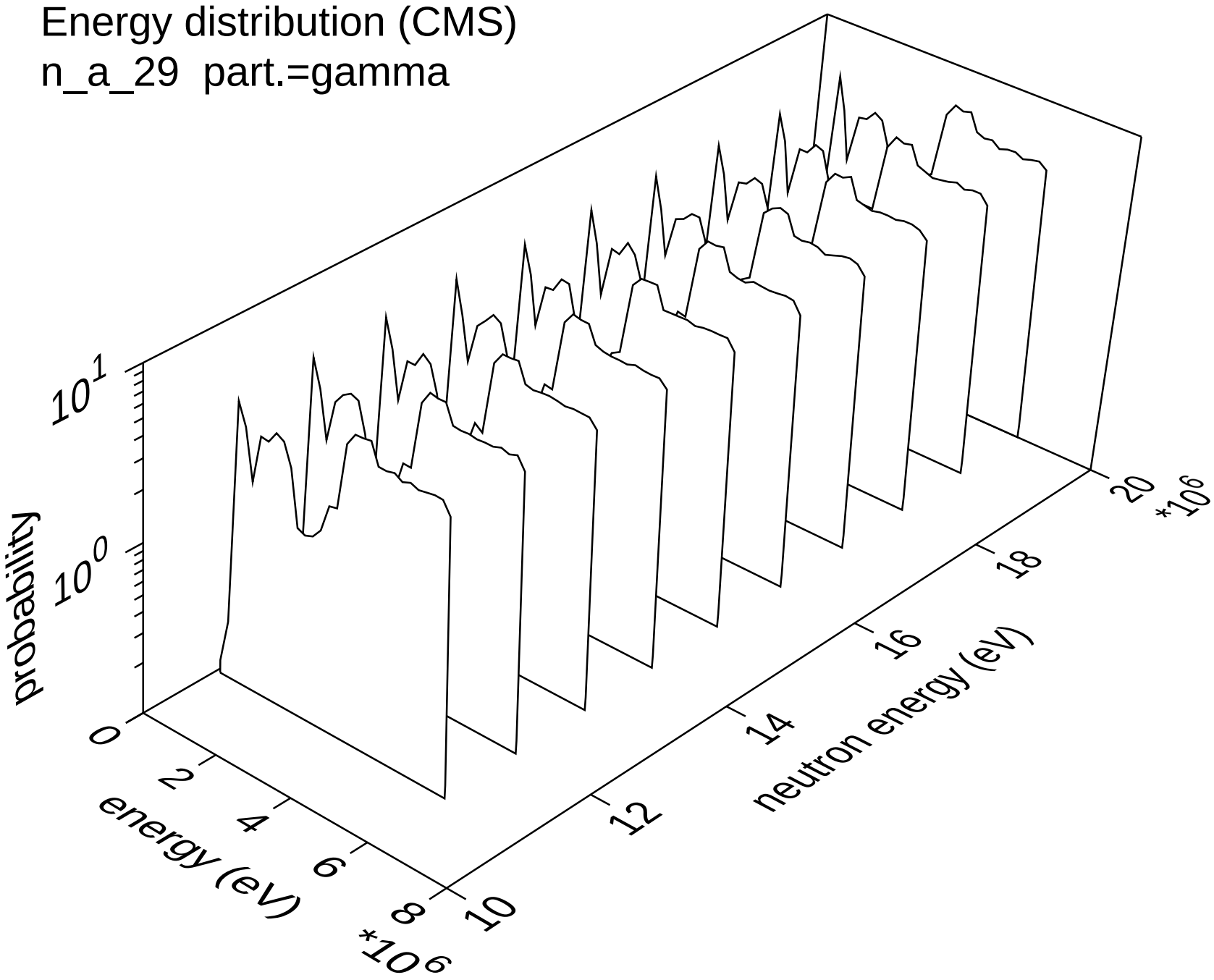

Energy distribution (CMS)
n_a_27 part.=alpha
probability
10^{-1}
2
4
6
8
10
12
energy (eV)
*10^6
10
12
14
16
18
20
neutron energy (eV)
*10^6

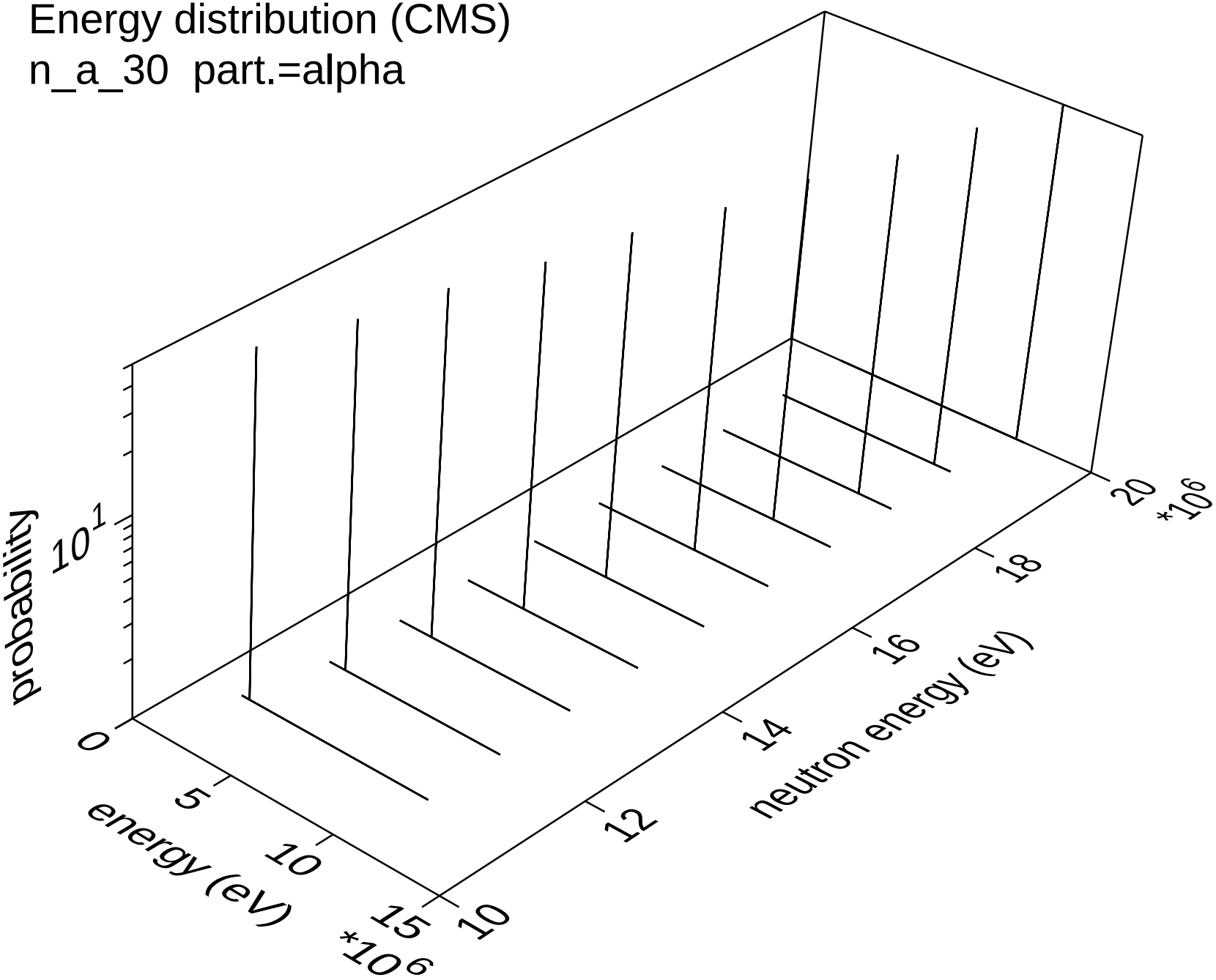

Energy distribution (CMS)
n_a_27 part.=gamma
probability
10^{1}
10^{0}
10^{-1}
energy (eV)
0
2
4
6
8
10
*10 6
neutron energy (eV)
12
14
16
18
20
*10^6

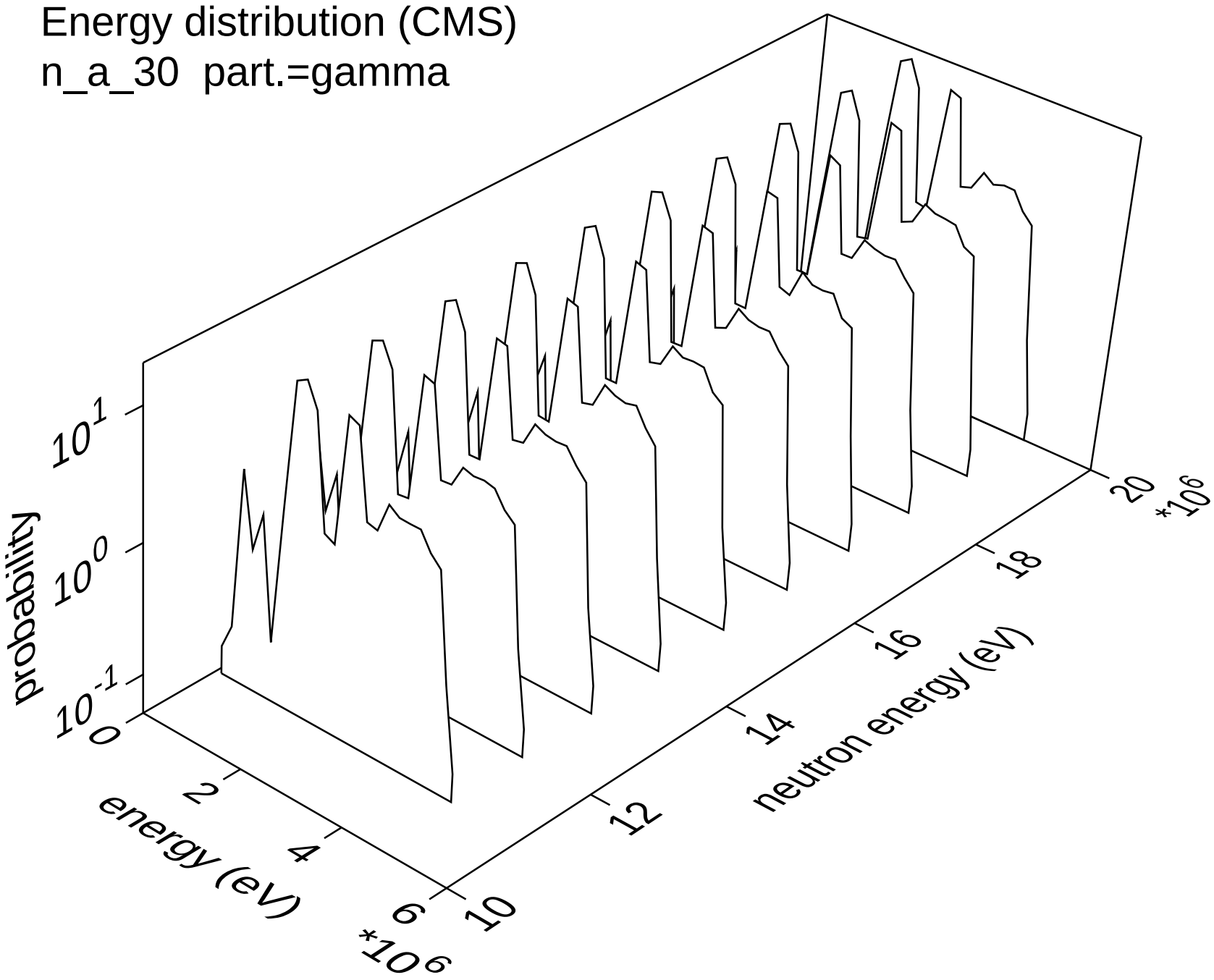

Energy distribution (CMS)
n_a_28 part.=alpha
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
10
12
14
16
18
20
*10^6
neutron energy (eV)

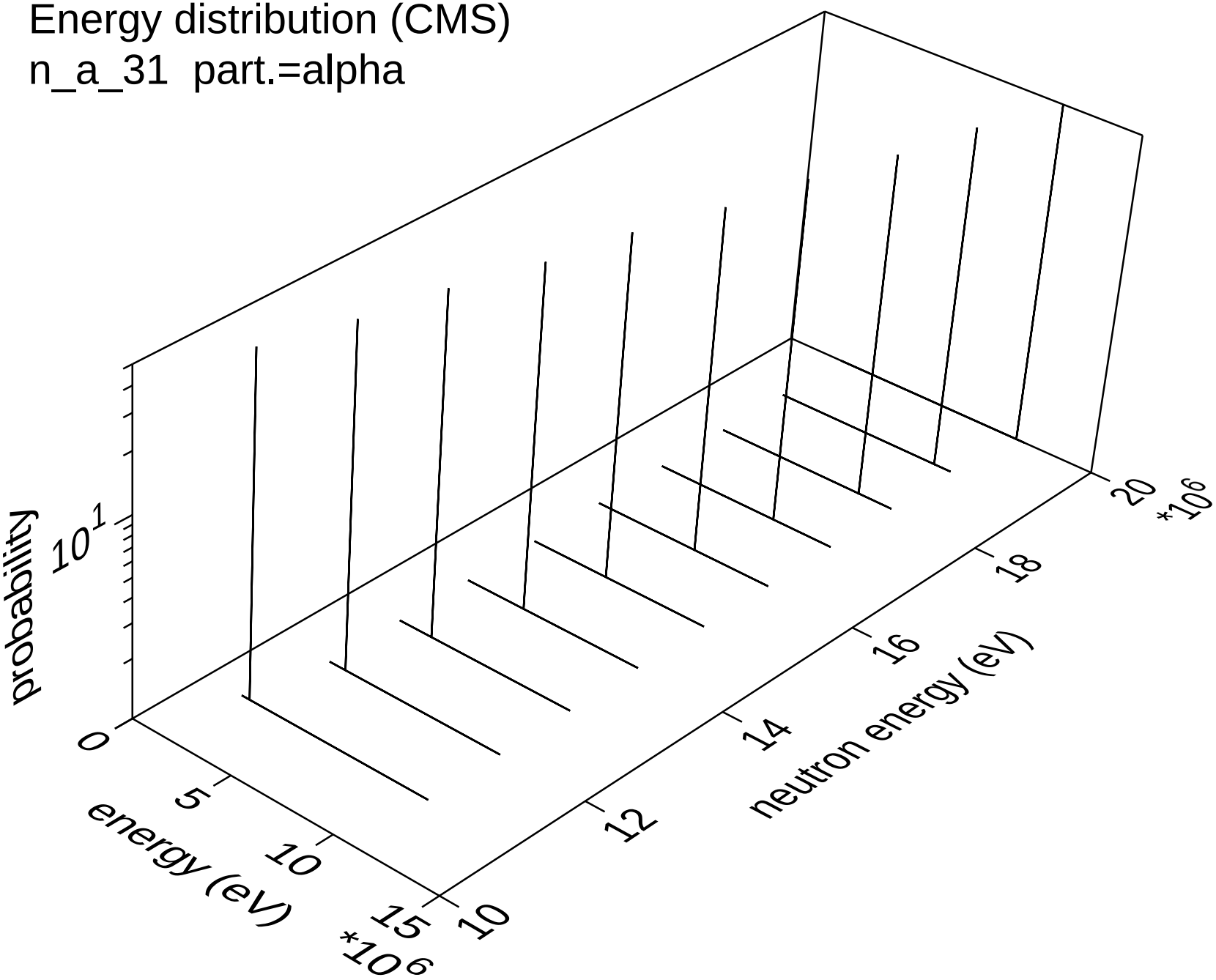

Energy distribution (CMS)
n_a_28 part.=gamma
probability
10^1
10^0
0
2
4
6
8
10
*10 6
energy (eV)
12
14
16
18
20
*10^6
neutron energy (eV)

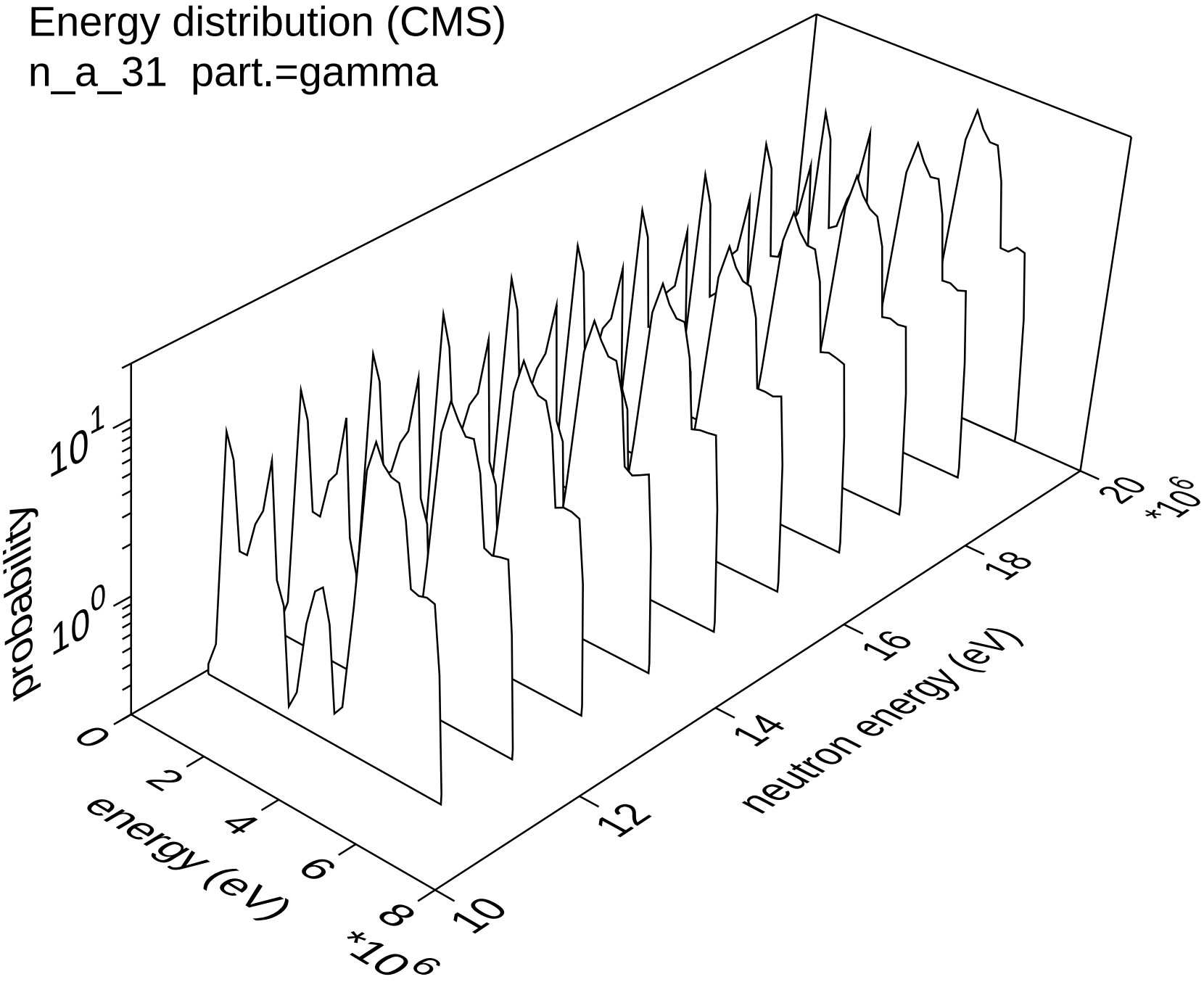

Energy distribution (CMS)
n_a_29 part.=alpha
probability
10^{1}
0
energy (eV)
5
10
15
*10^6
10
12
14
16
18
20
*10^6
neutron energy (eV)

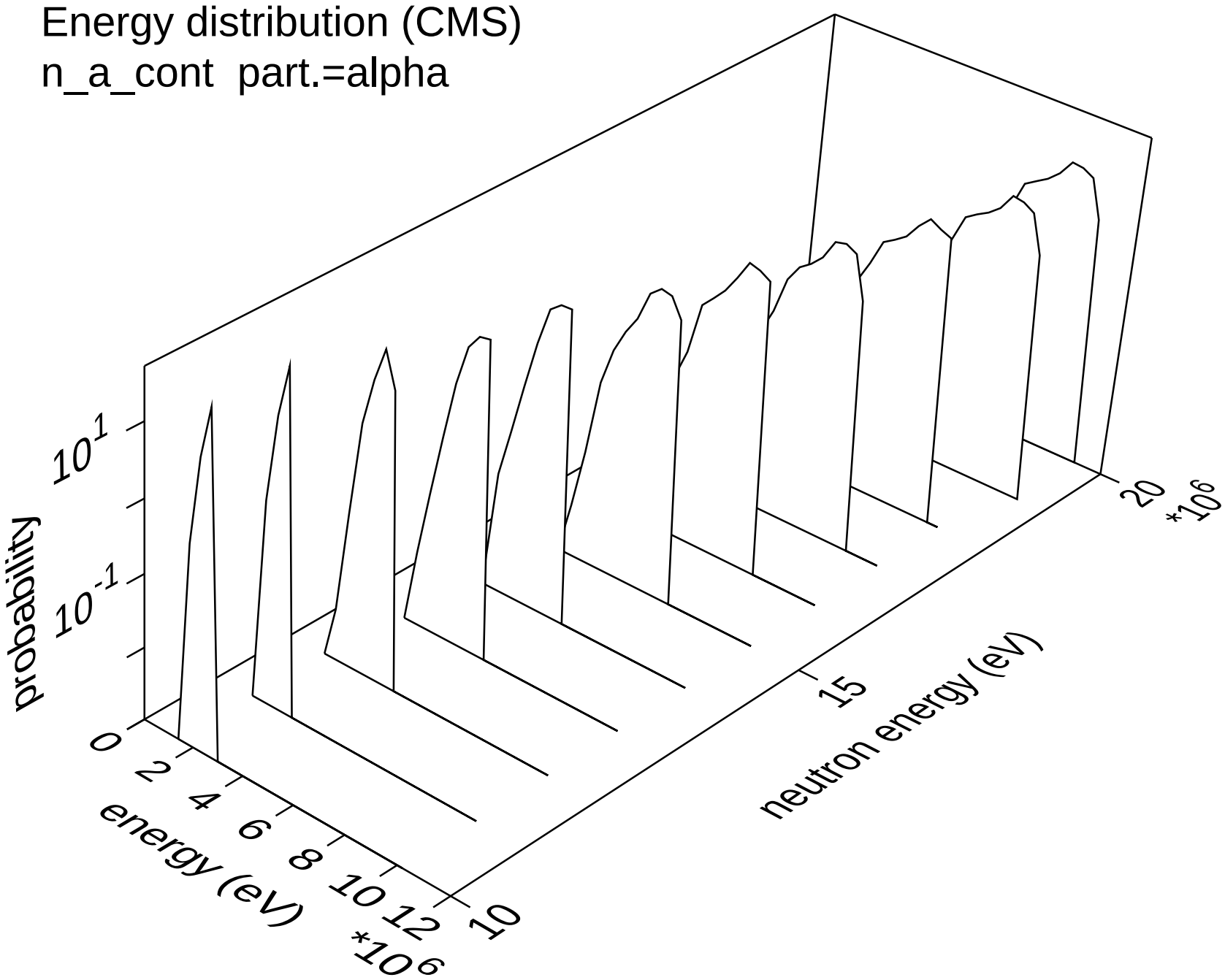

Energy distribution (CMS)
n_a_29 part.=gamma
probability
10^1
10^0
0
2
4
6
8
10
energy (eV)
*10^6
12
14
16
18
20
neutron energy (eV)
*10^6

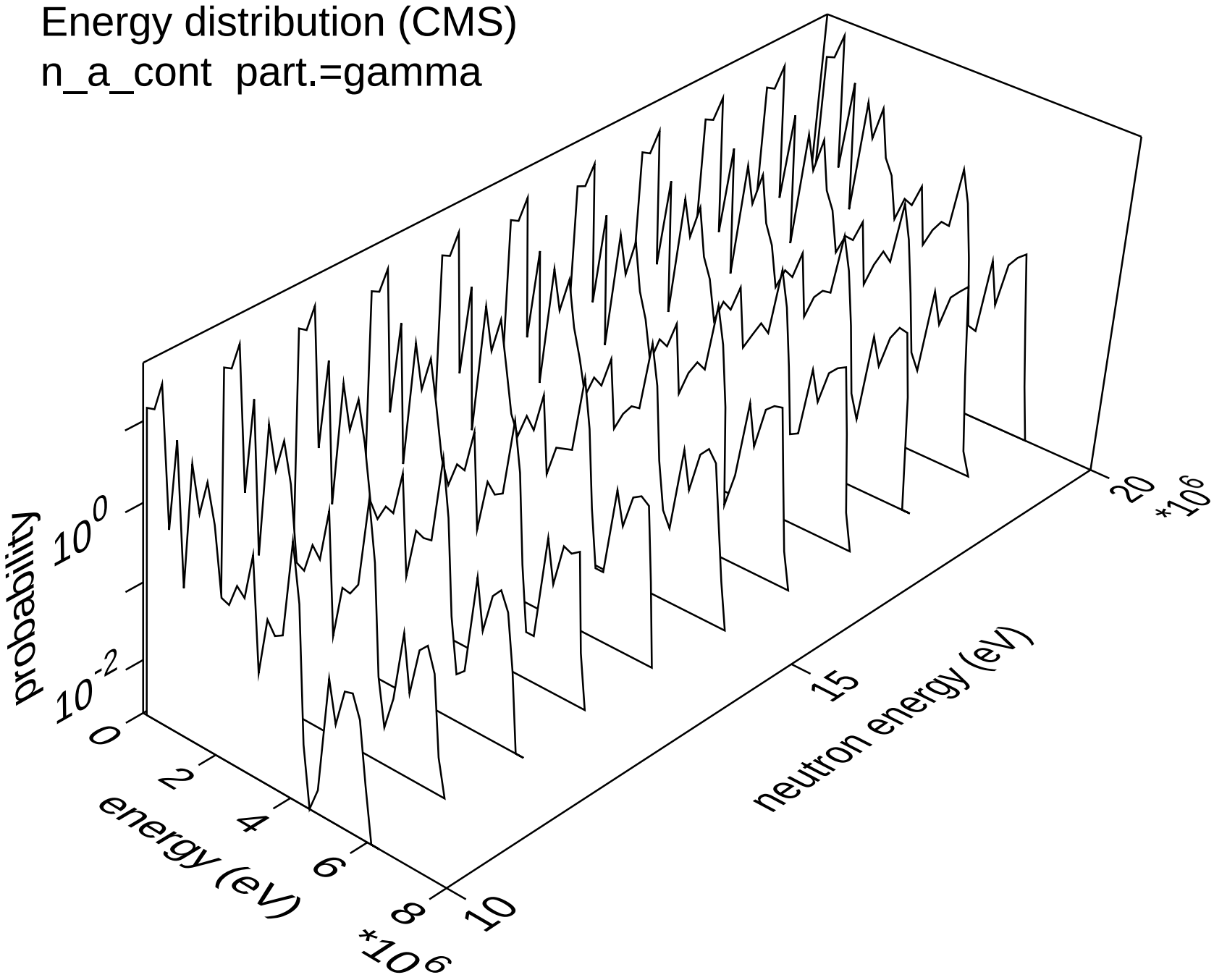

Energy distribution (CMS)
n_a_30 part.=alpha
probability
10^{-1}
0
energy (eV)
5
10
15
*10^6
10
12
14
16
18
20
*10^6
neutron energy (eV)


Energy distribution (CMS)
n_a_30 part.=gamma
probability
10^{1}
10^{0}
10^{-1}
0
2
4
6
*10^6
energy (eV)
10
12
14
16
18
20
*10^6
neutron energy (eV)


Energy distribution (CMS)
n_a_31 part.=alpha
probability
10^{-1}
0
energy (eV)
5
10
15
*10^6
10
12
14
16
18
20
*10^6
neutron energy (eV)


Energy distribution (CMS)
n_a_31 part.=gamma
probability
10^1
10^0
0
2
4
6
8
10
*10^6
energy (eV)
12
14
16
18
20
*10^6
neutron energy (eV)


Energy distribution (CMS)
n_a_cont part.=alpha
probability
10^{1}
10^{-1}
0
2
4
6
8
10
12
energy (eV)
*10 6
10
15
20
neutron energy (eV)
*10 6


Energy distribution (CMS)
n_a_cont part.=gamma
probability
10^{0}
10^{-2}
0
2
4
6
8
10
*10 6
energy (eV)
15
20
*10^6
neutron energy (eV)