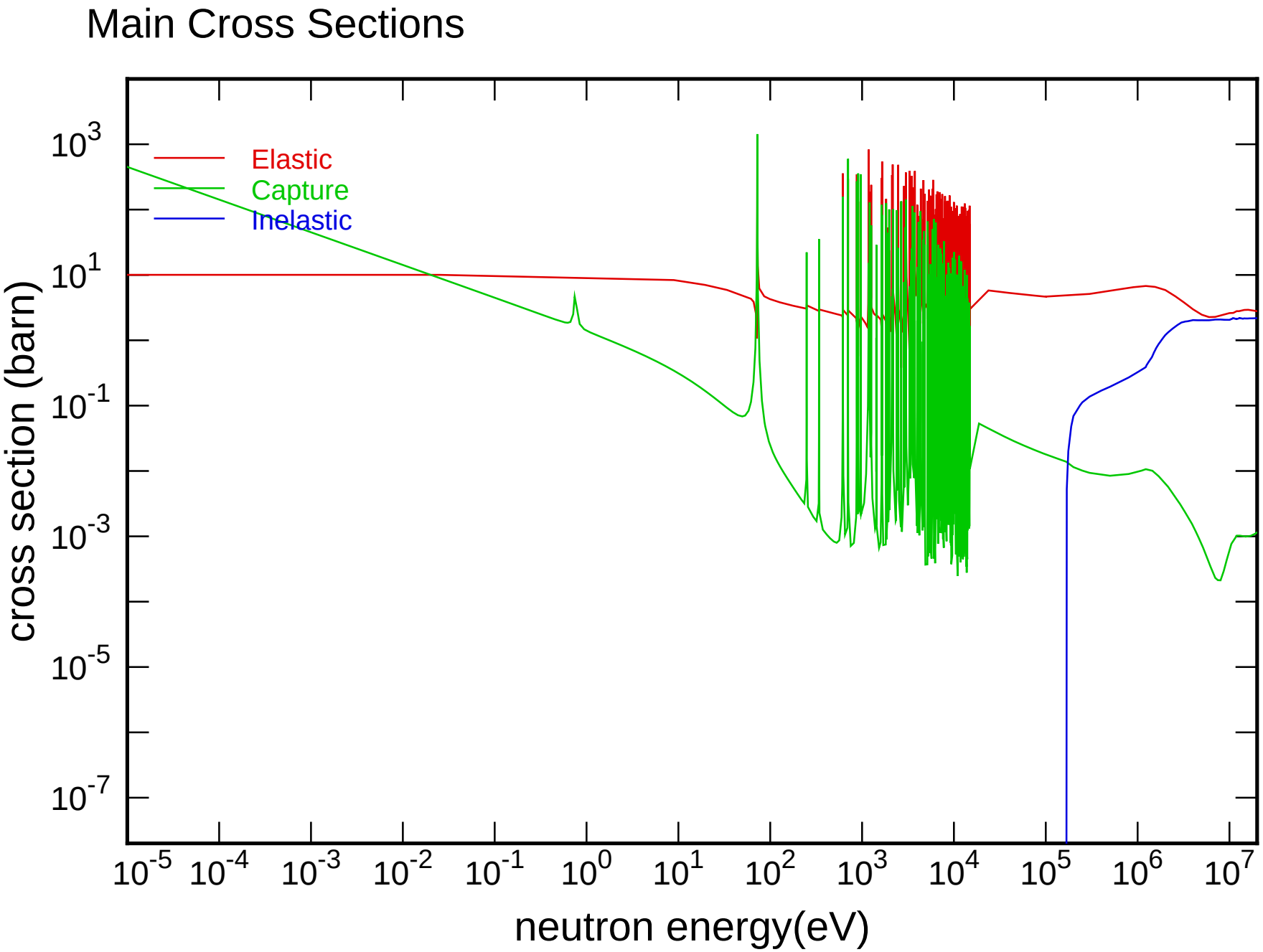
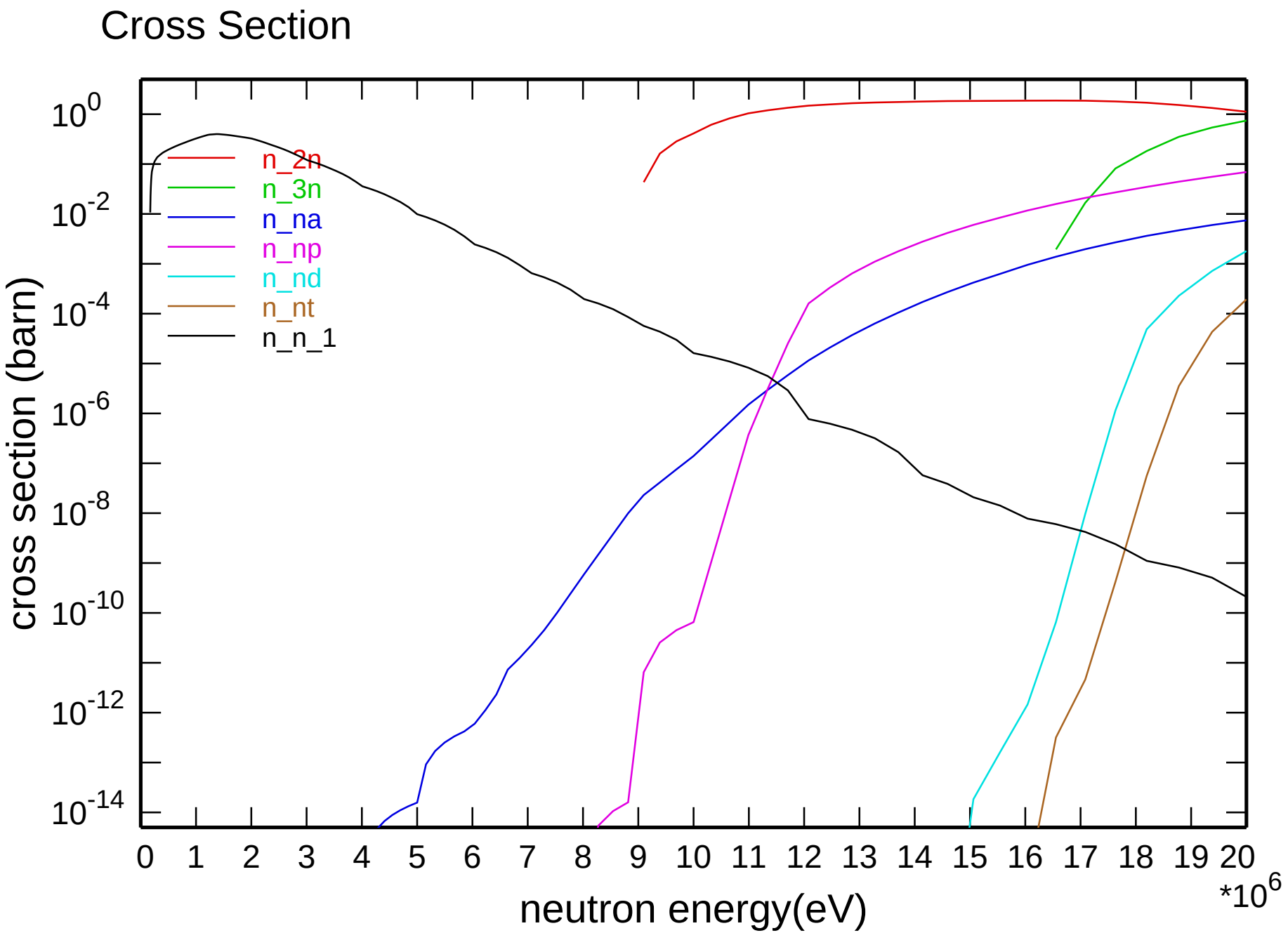
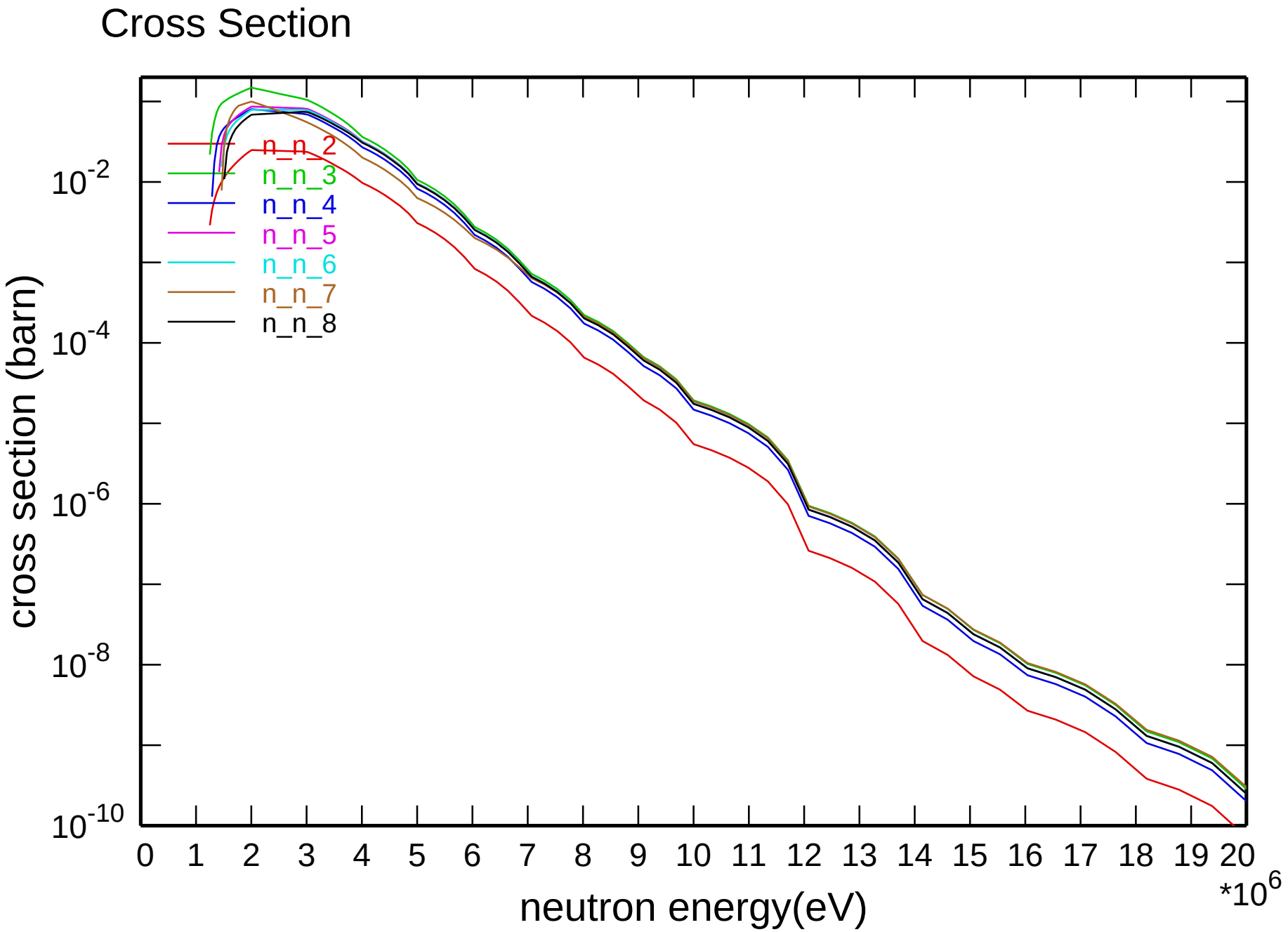
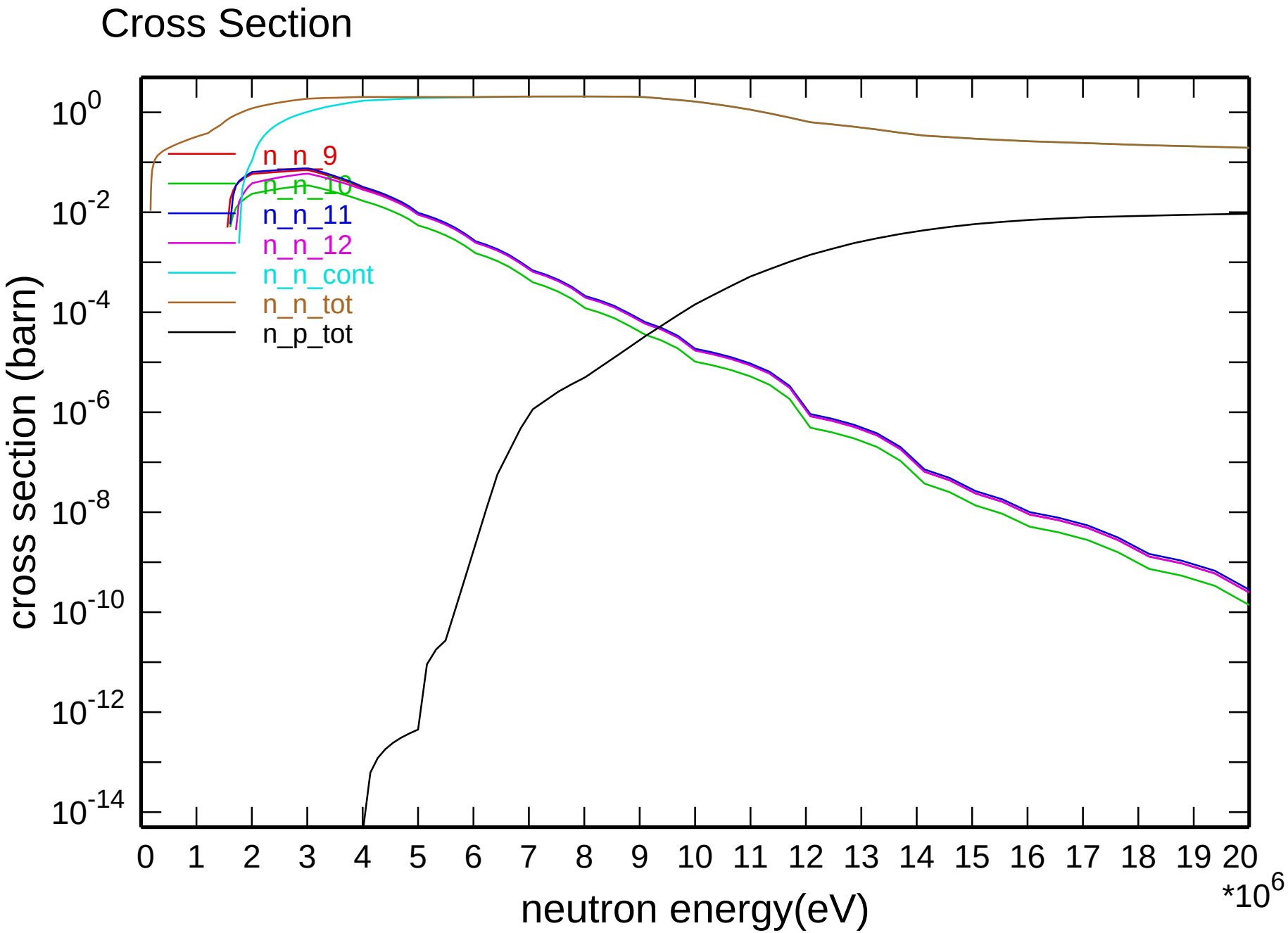
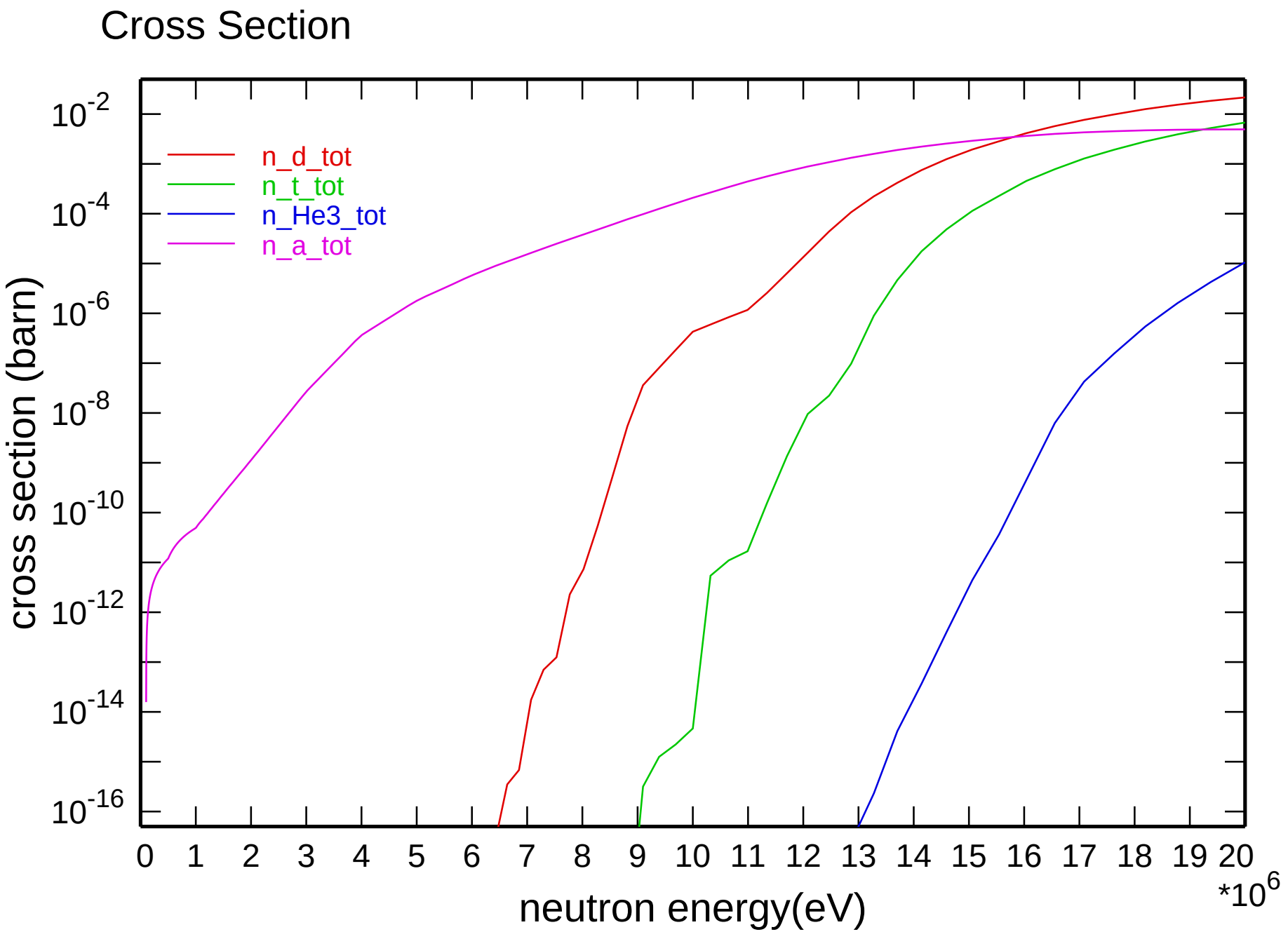
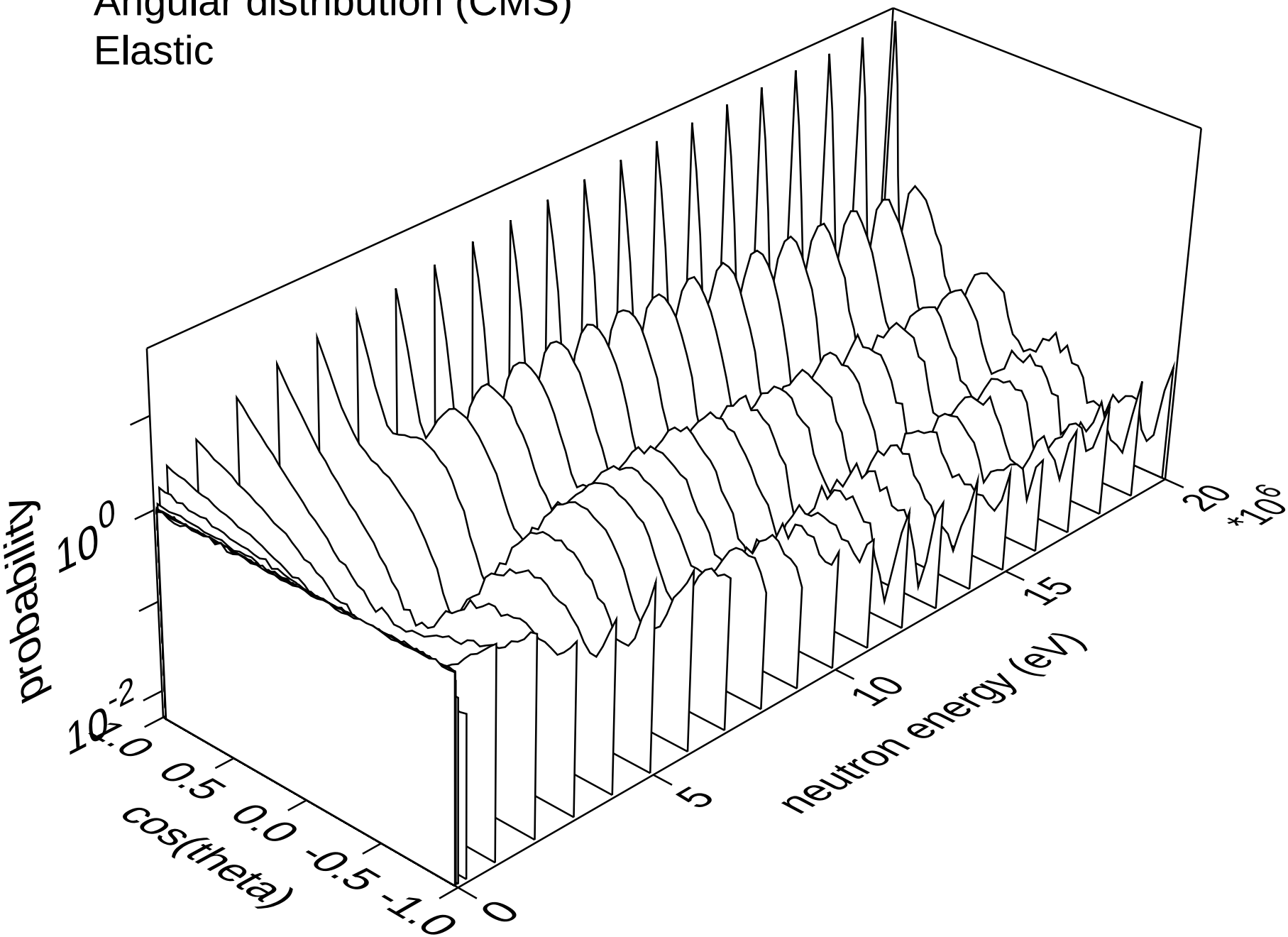

Main Cross Sections
Elastic
Capture
Inelastic
cross section (barn)
10^{3}
10^{1}
10^{-1}
10^{-3}
10^{-5}
10^{-7}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7}
neutron energy(eV)

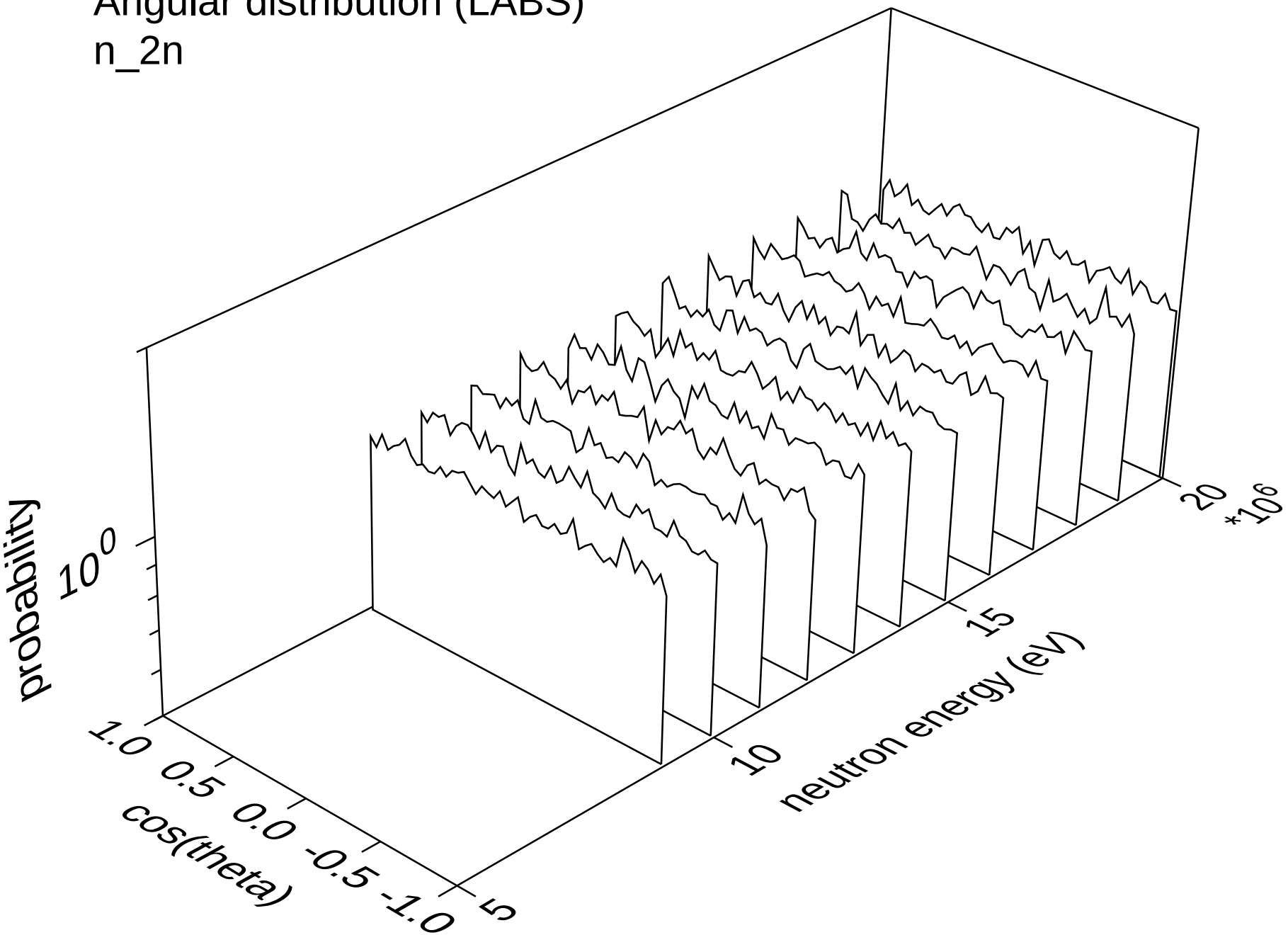

Cross Section
cross section (barn)
10^{0}
10^{-2}
10^{-4}
10^{-6}
10^{-8}
10^{-10}
10^{-12}
10^{-14}
n_2n
n_3n
n_na
n_np
n_nd
n_nt
n_n_1
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
neutron energy(eV)
*10^{6}

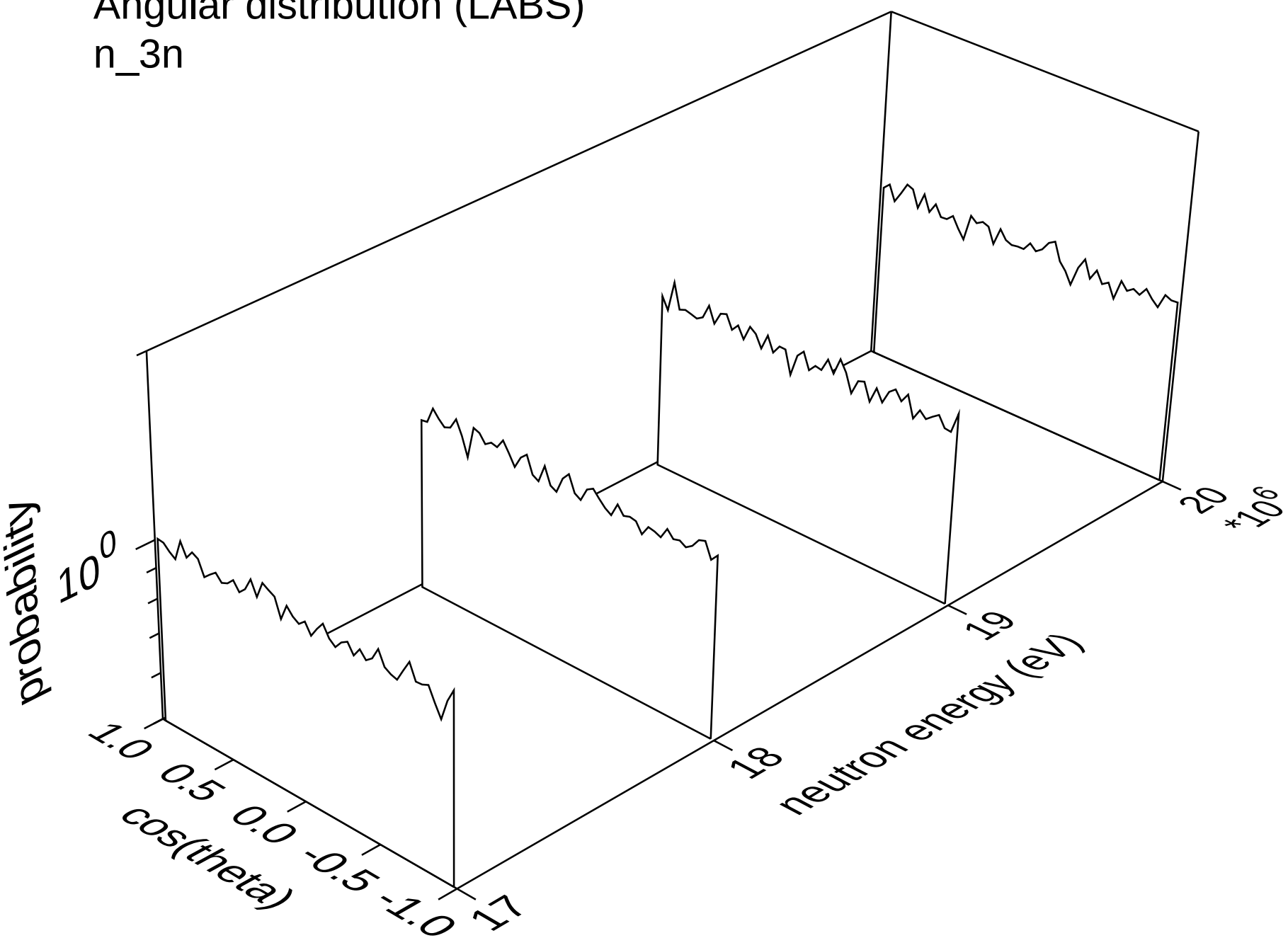

Cross Section
n_n_2
n_n_3
n_n_4
n_n_5
n_n_6
n_n_7
n_n_8
cross section (barn)
10-2
10-4
10-6
10-8
10-10
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^6
neutron energy(eV)

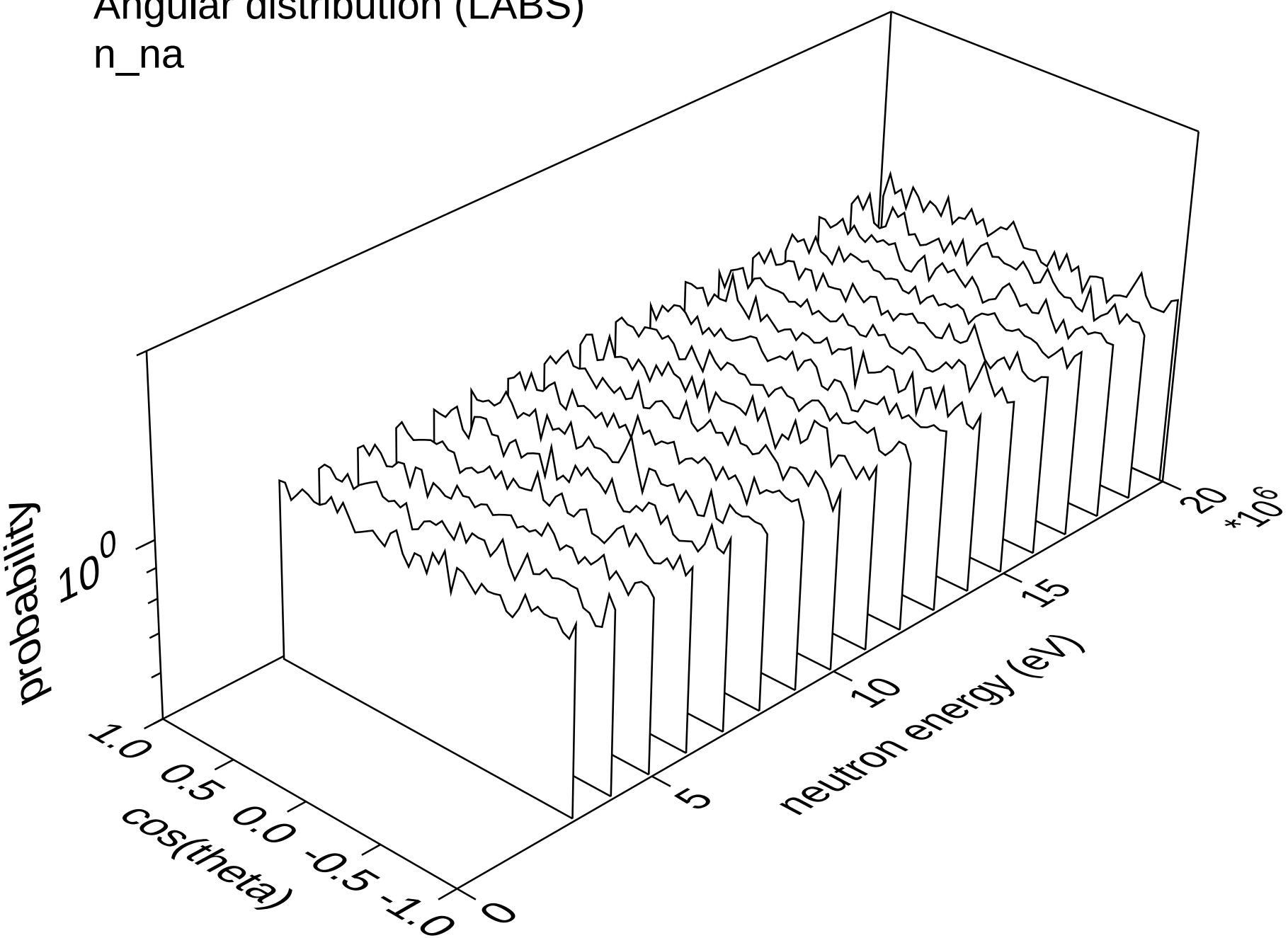

Cross Section
cross section (barn)
neutron energy(eV)
*10^6
n_n_9
n_n_10
n_n_11
n_n_12
n_n_cont
n_n_tot
n_p_tot

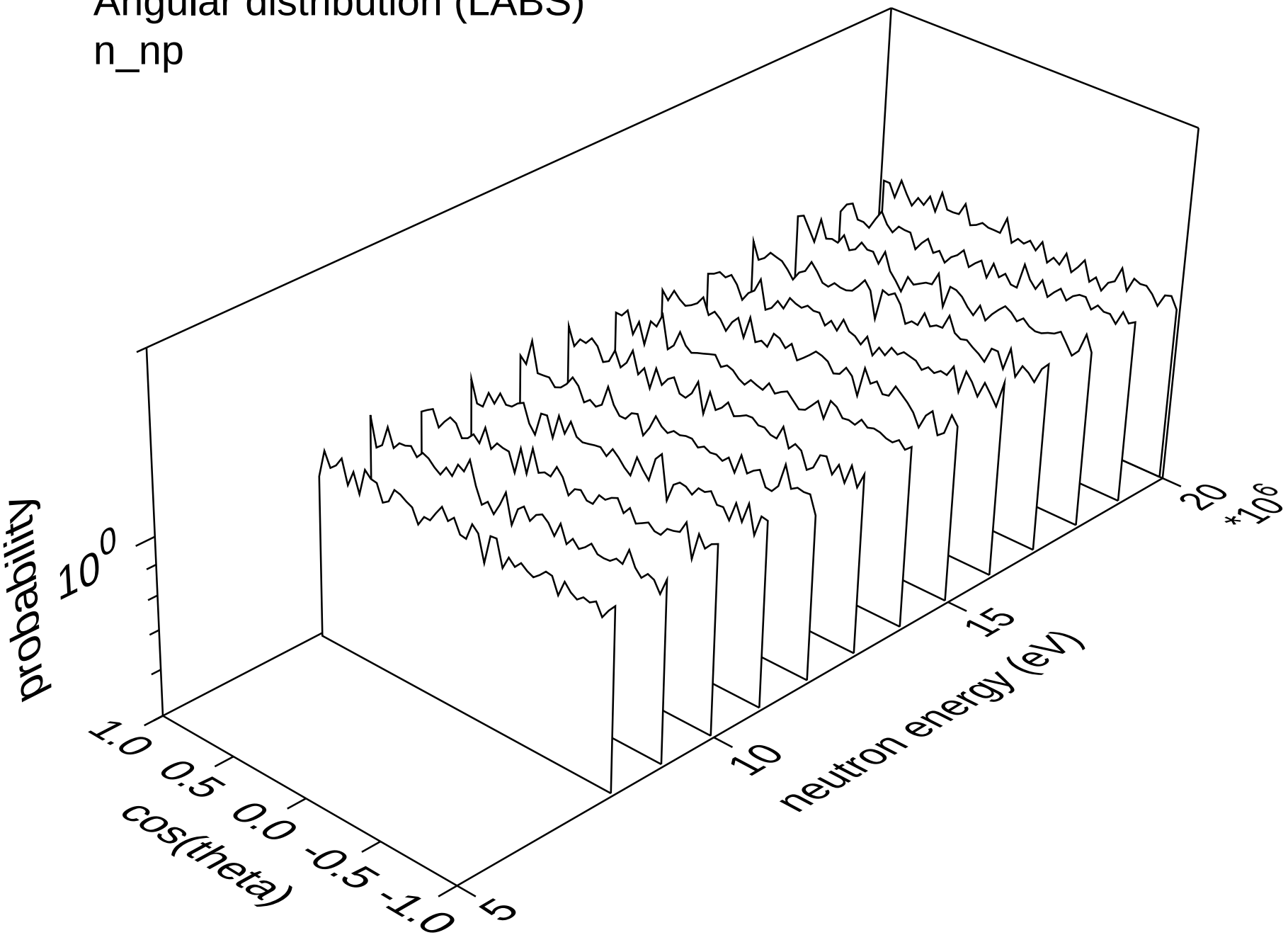

Cross Section
n_d_tot
n_t_tot
n_He3_tot
n_a_tot
cross section (barn)
10-2
10-4
10-6
10-8
10-10
10-12
10-14
10-16
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^6
neutron energy(eV)

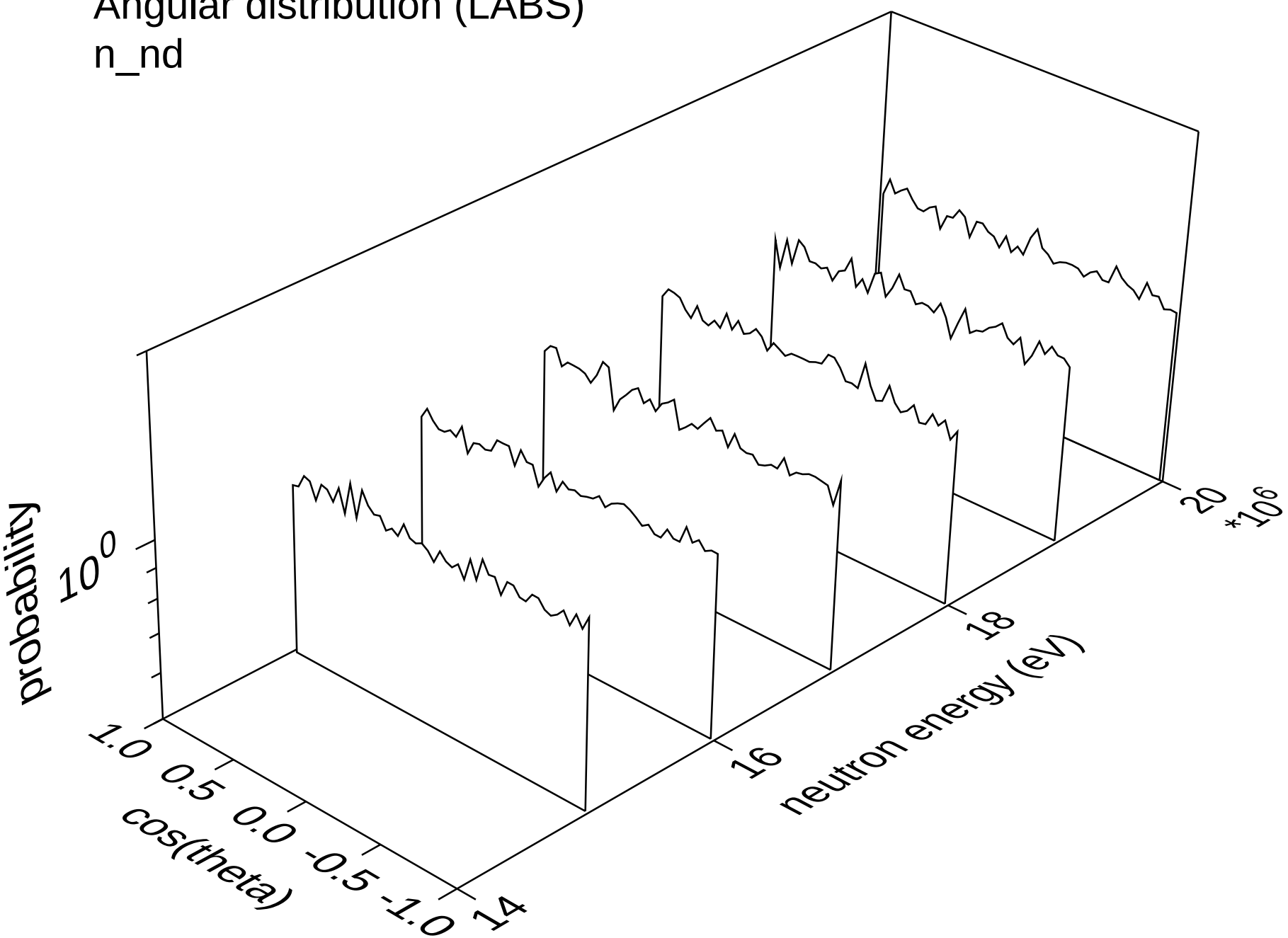

Angular distribution (CMS)
Elastic
probability
10^{0}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

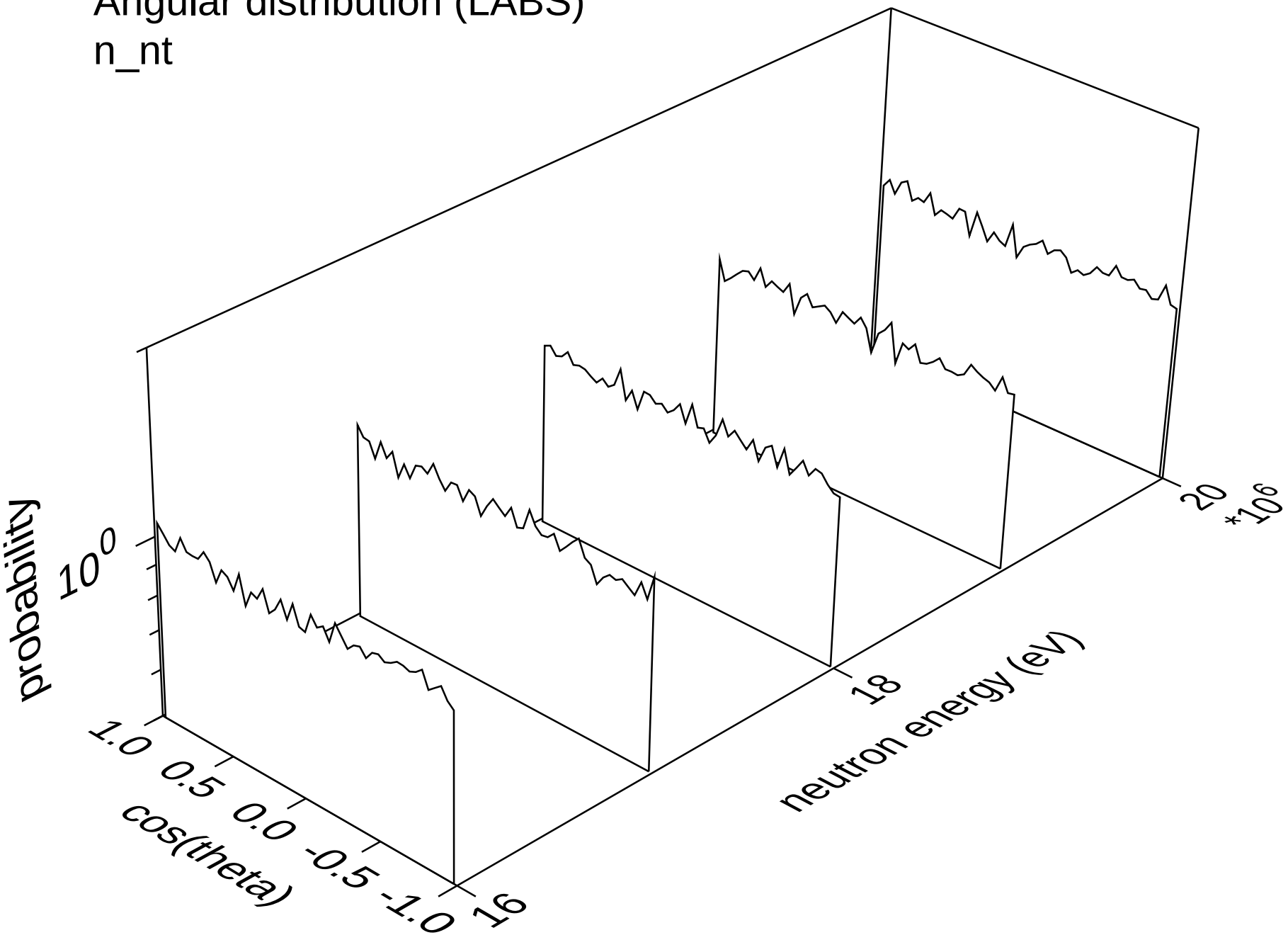

Angular distribution (LABS)
n_2n
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

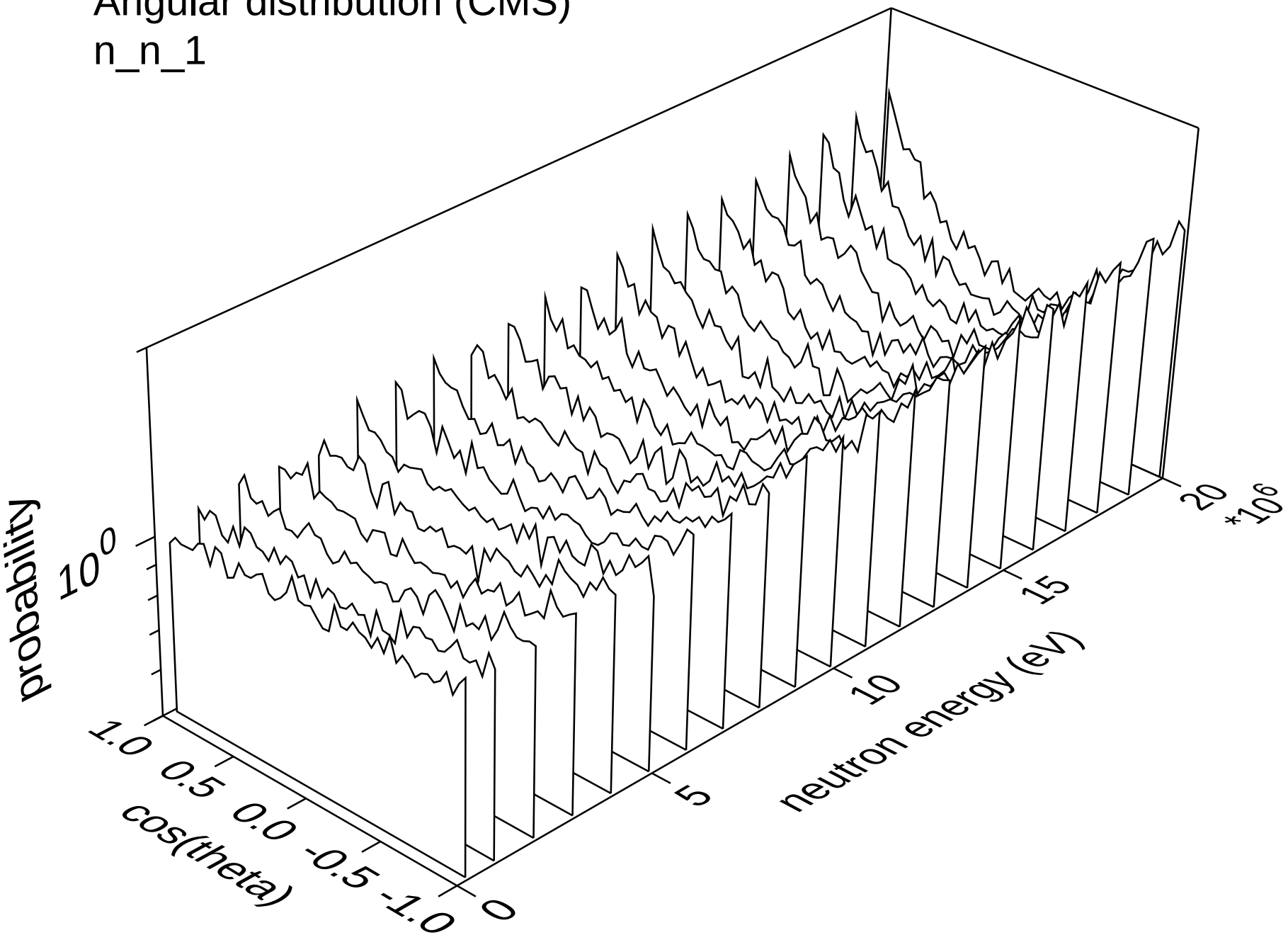

Angular distribution (LABS)
n_3n
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
17
18
19
20
*10^6
neutron energy (eV)

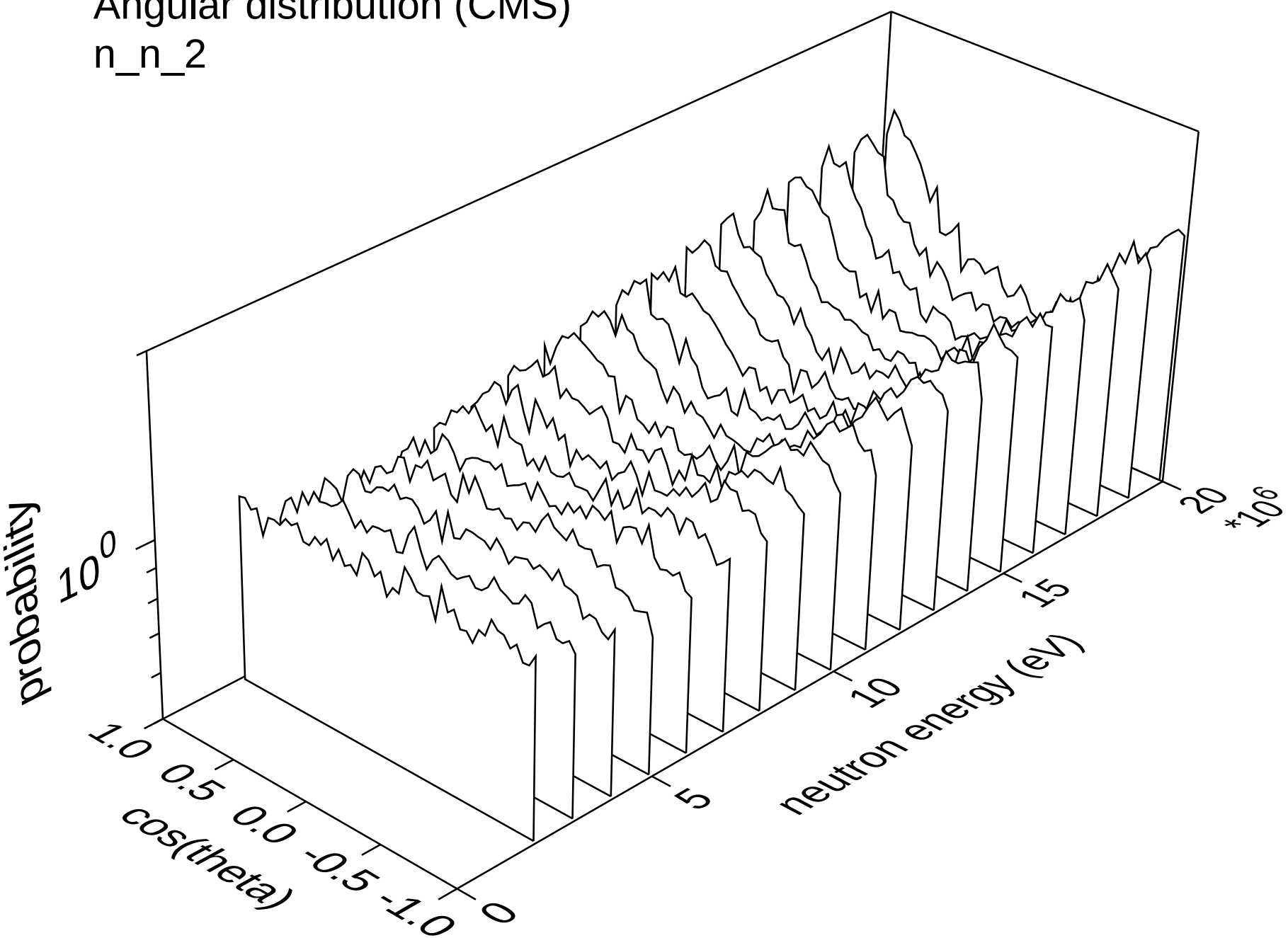

Angular distribution (LABS)
n_na
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

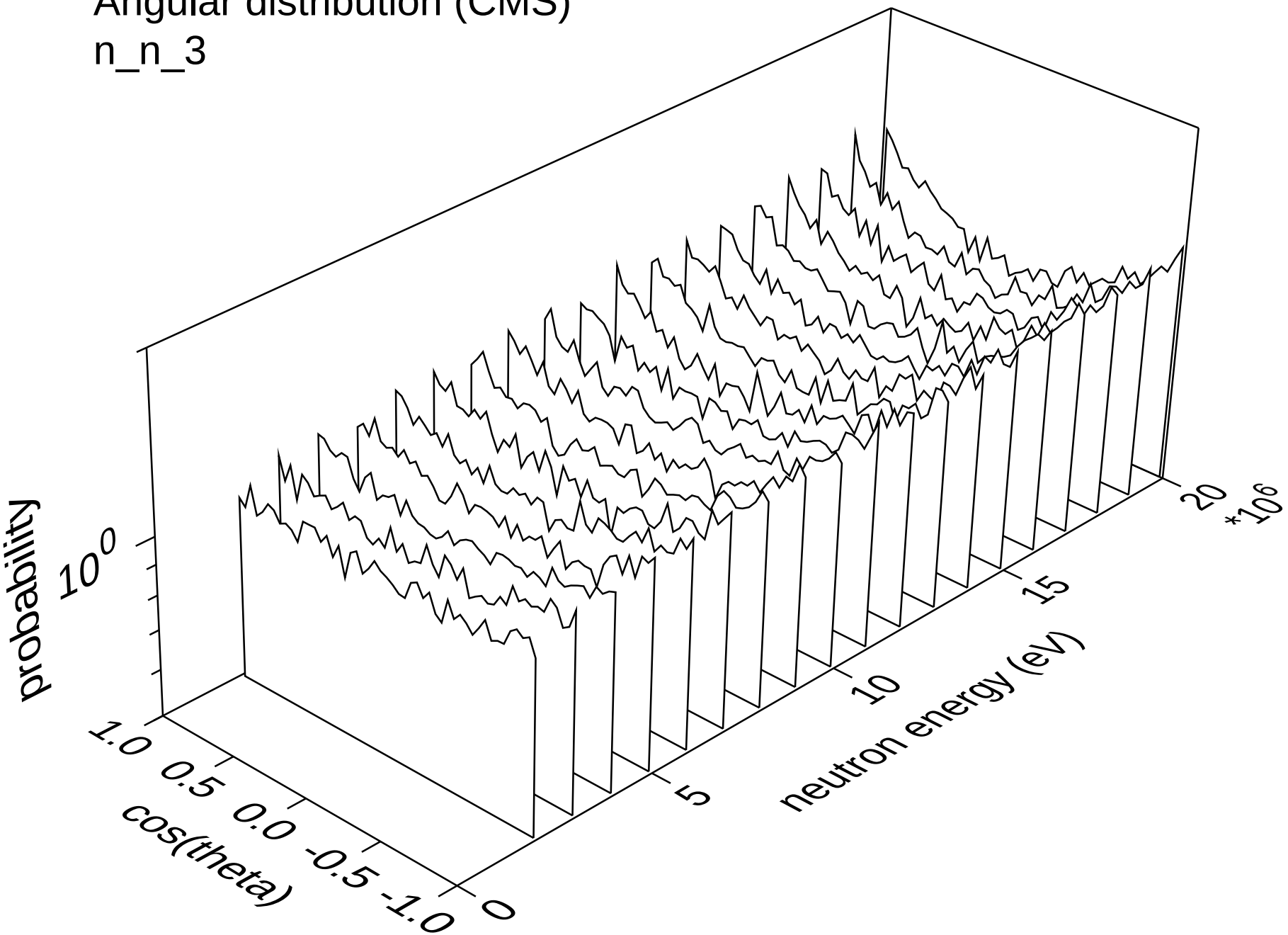

Angular distribution (LABS)
n_np
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
5
10
15
20
*10^6
neutron energy (eV)

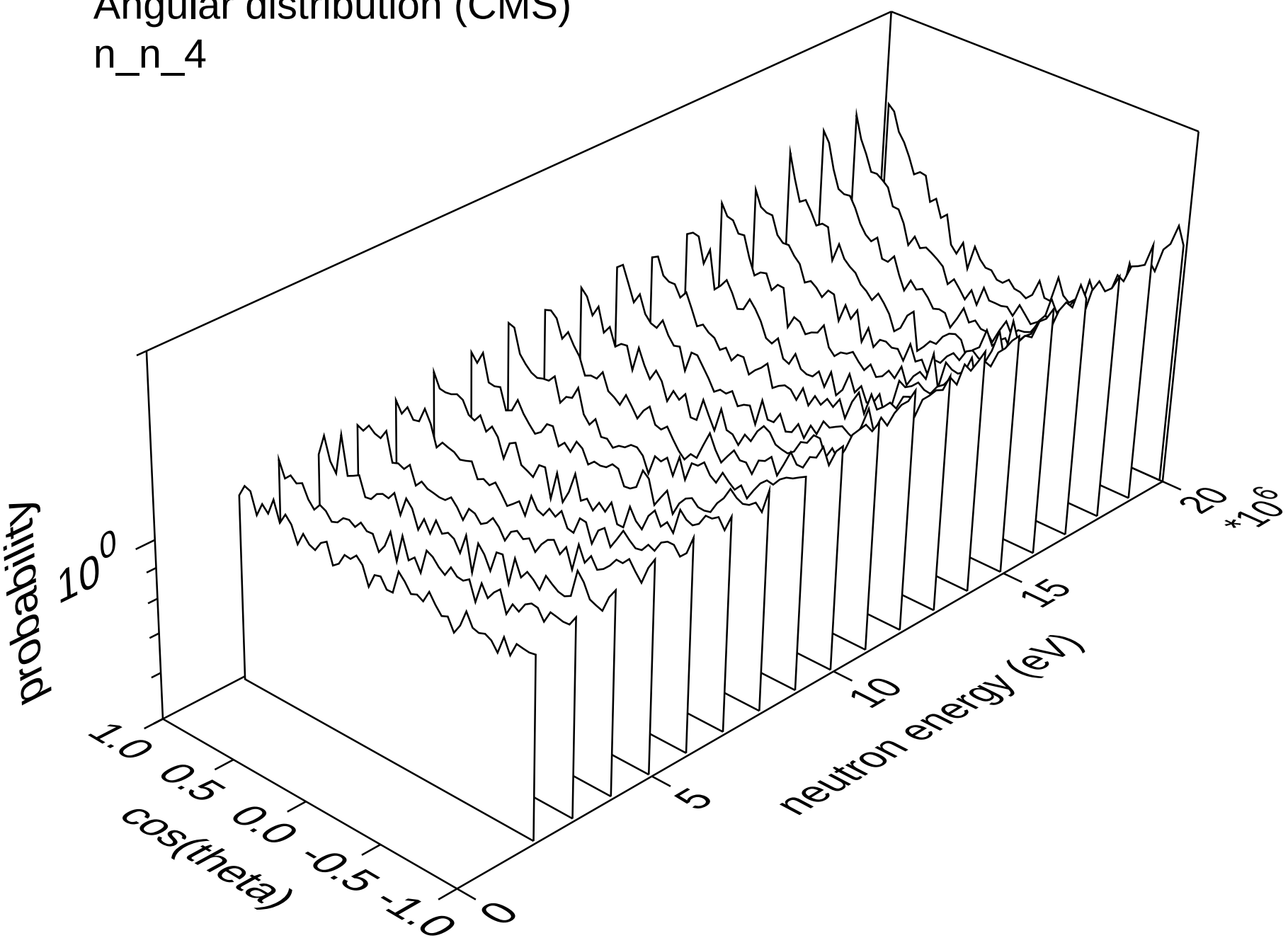

Angular distribution (LABS)
n_nd
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
14
16
18
20
*10^6
neutron energy (eV)

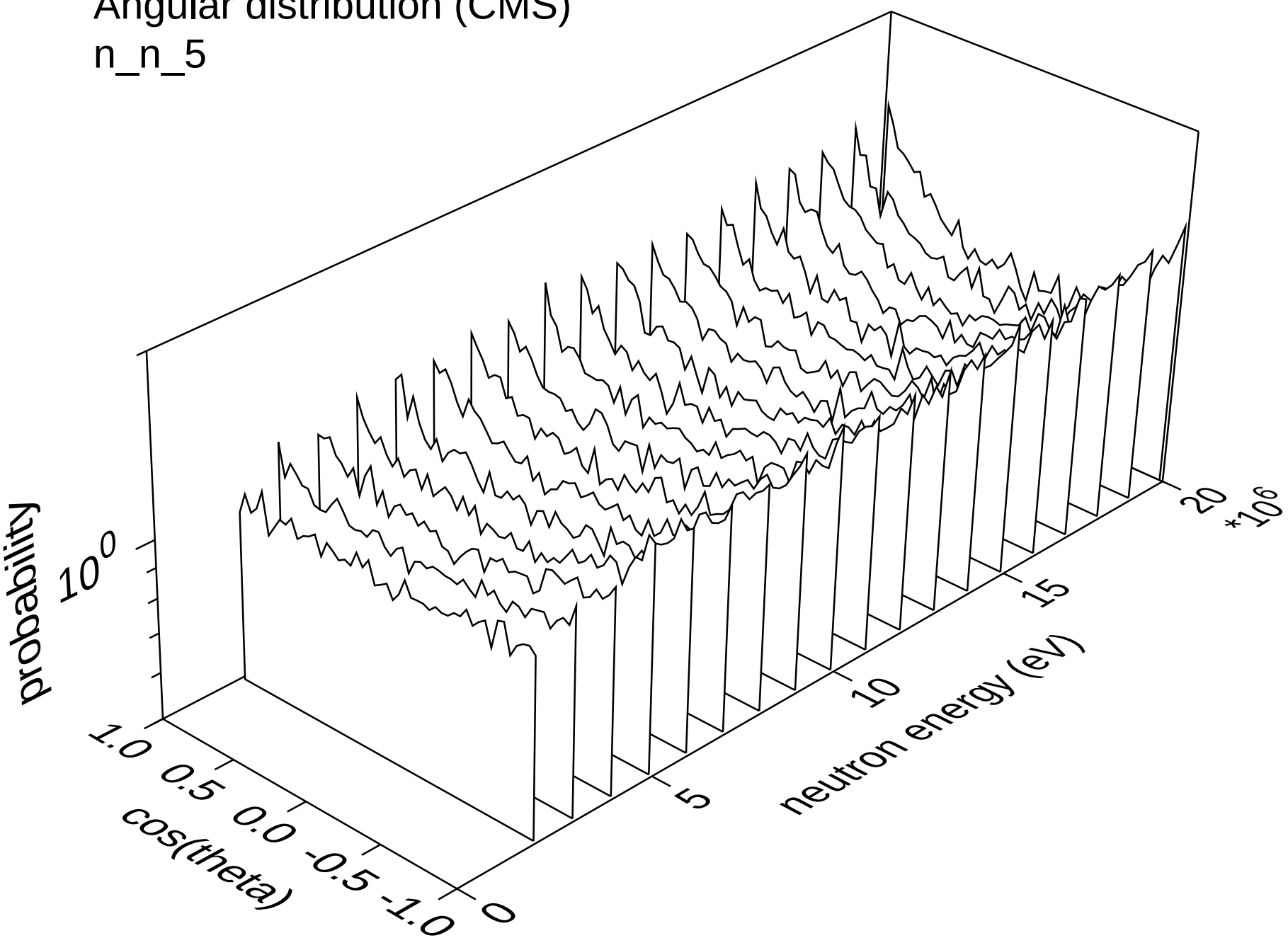

Angular distribution (LABS)
n_nt
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
16
18
20
*10^6
neutron energy (eV)

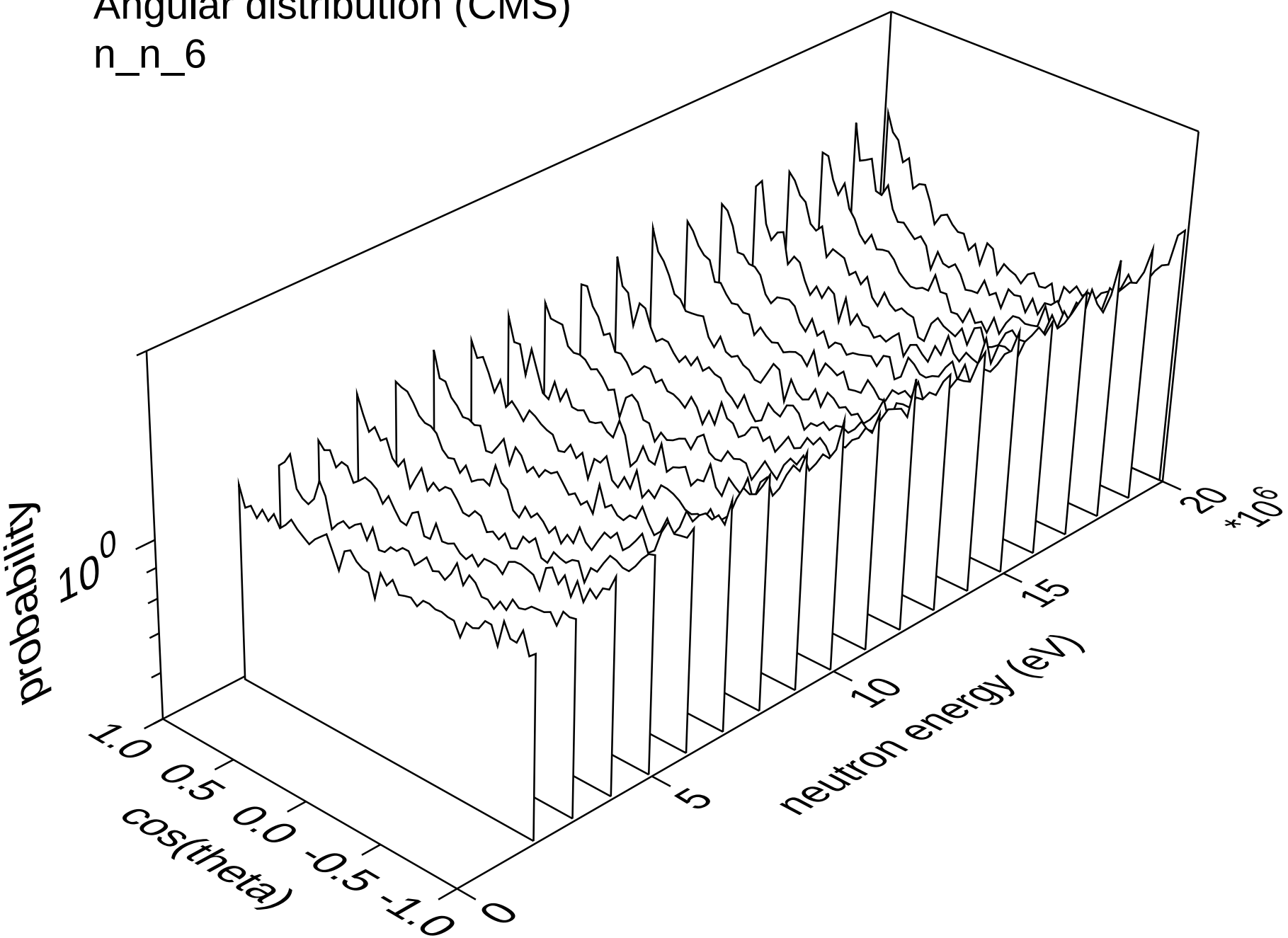

Angular distribution (CMS)
n_n_1
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

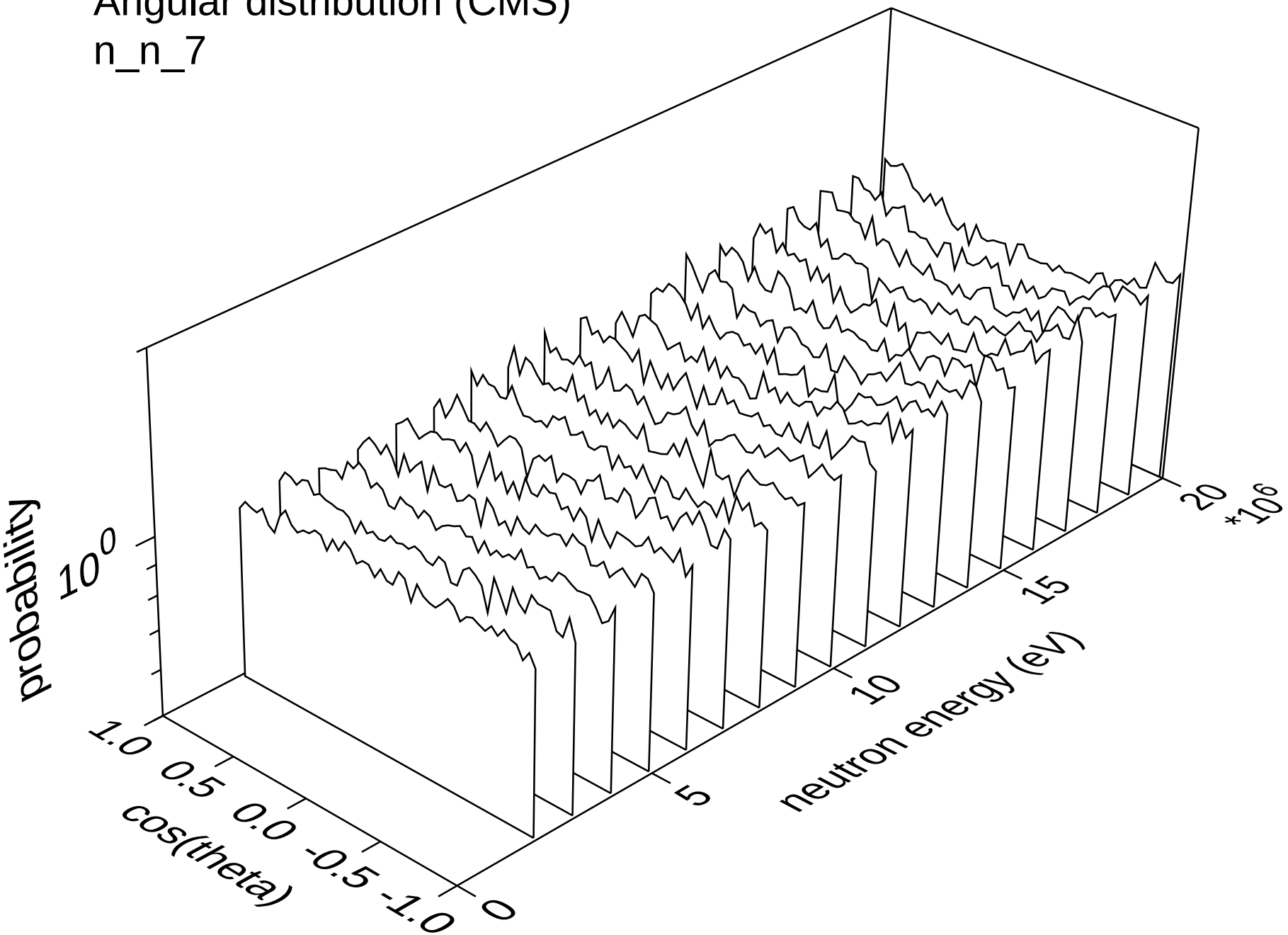

Angular distribution (CMS)
n_n_2
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

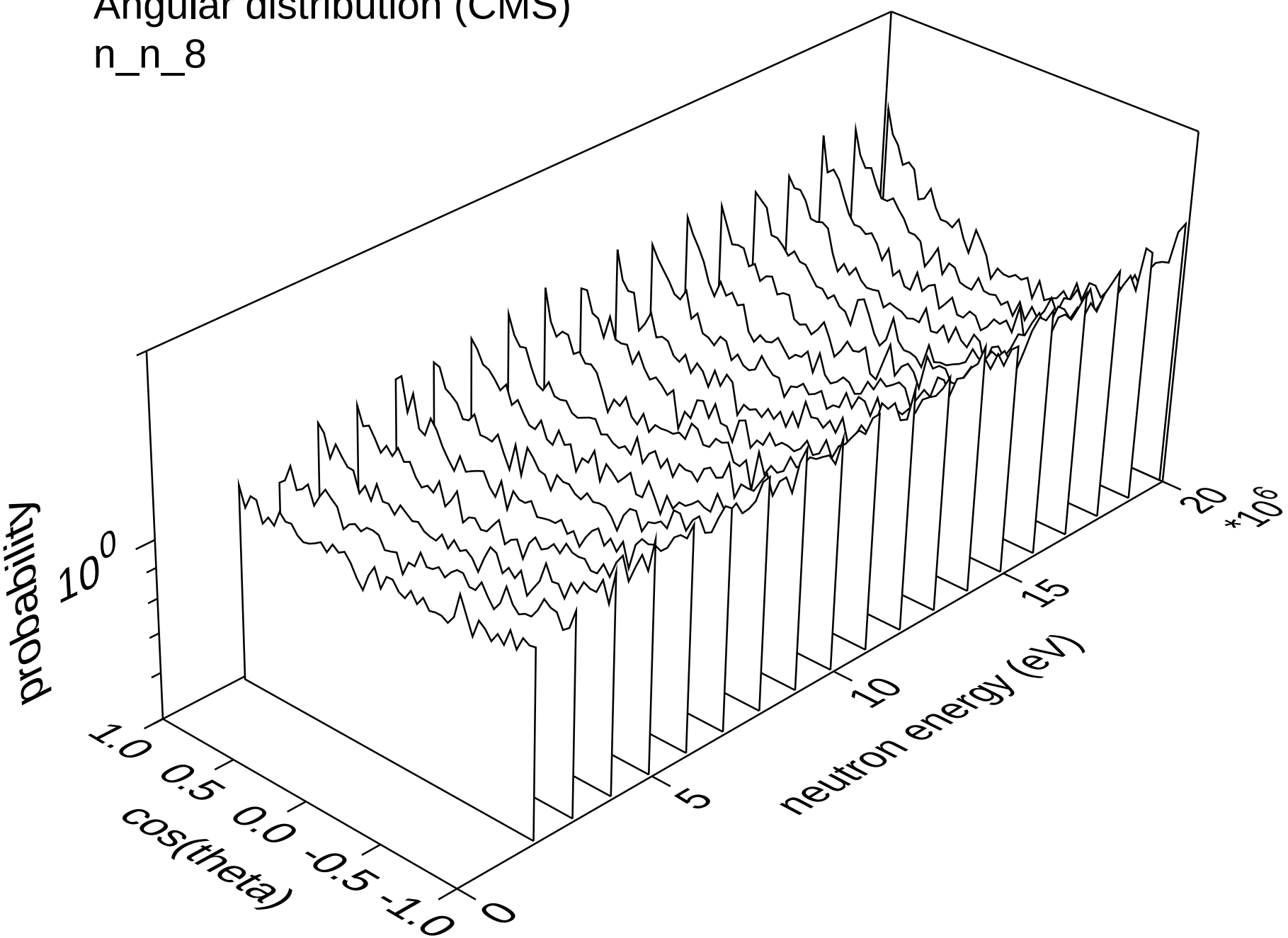

Angular distribution (CMS)
n_n_3
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
neutron energy (eV)
*10^6

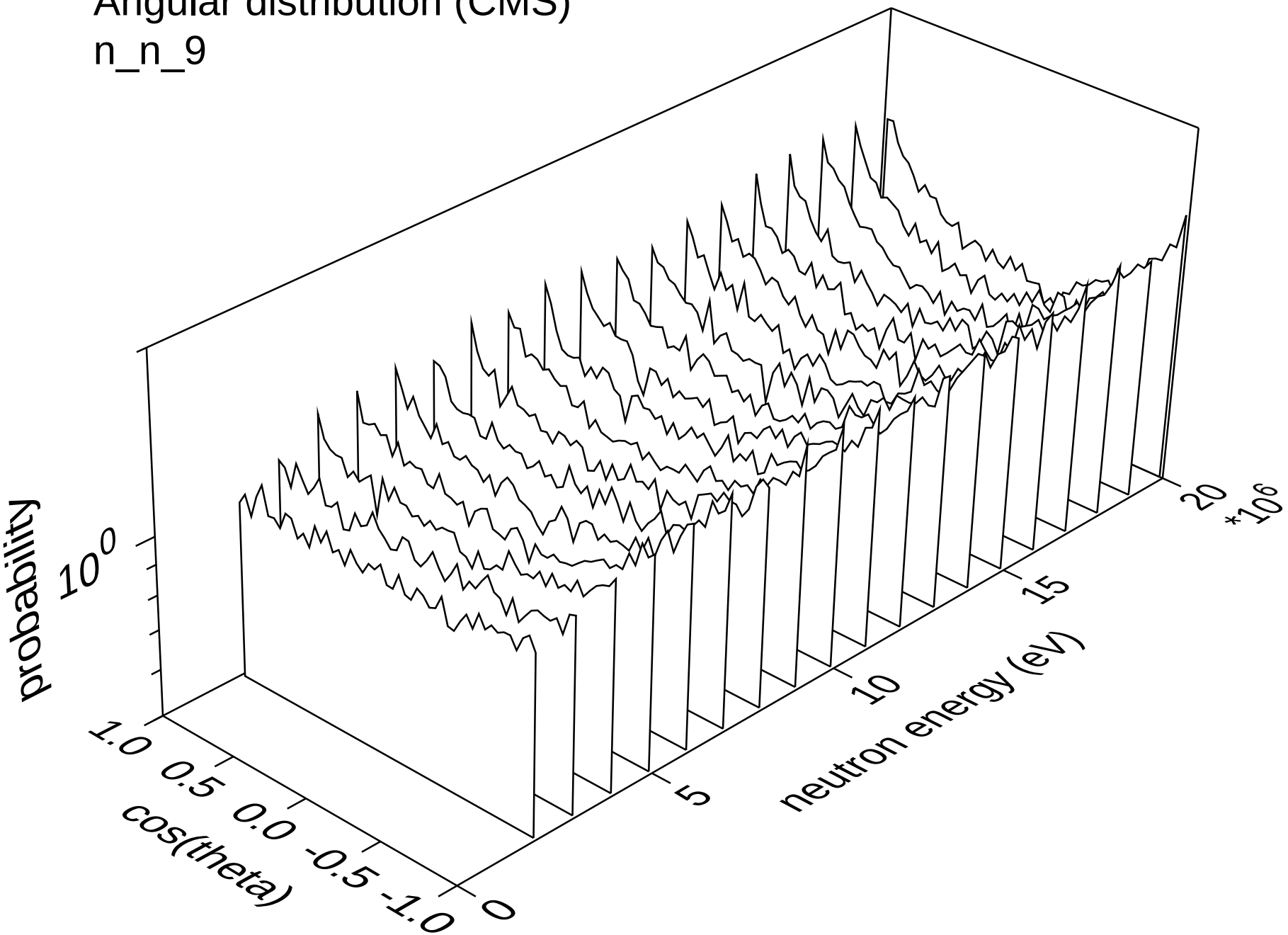

Angular distribution (CMS)
n_n_4
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

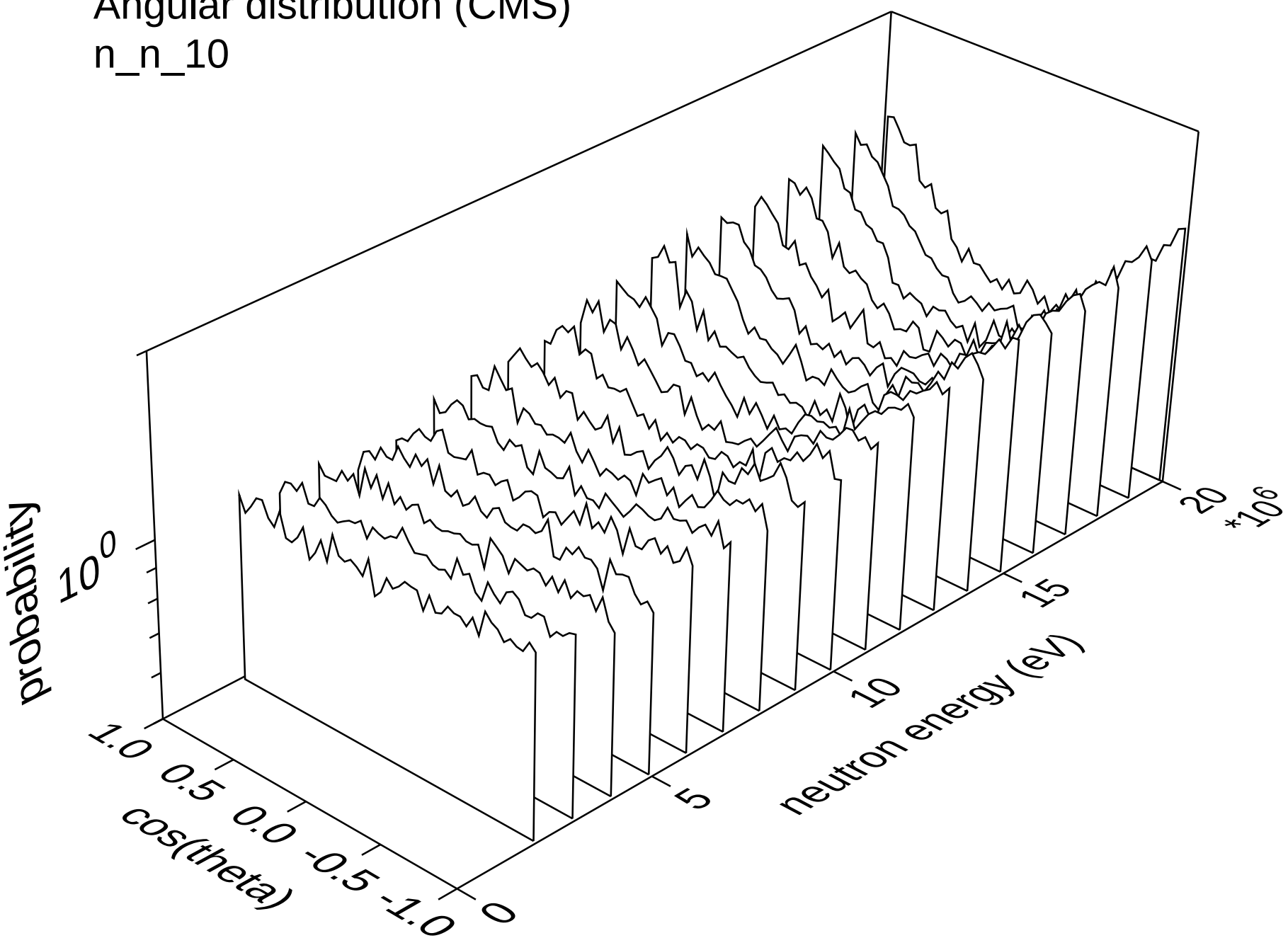

Angular distribution (CMS)
n_n_5
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

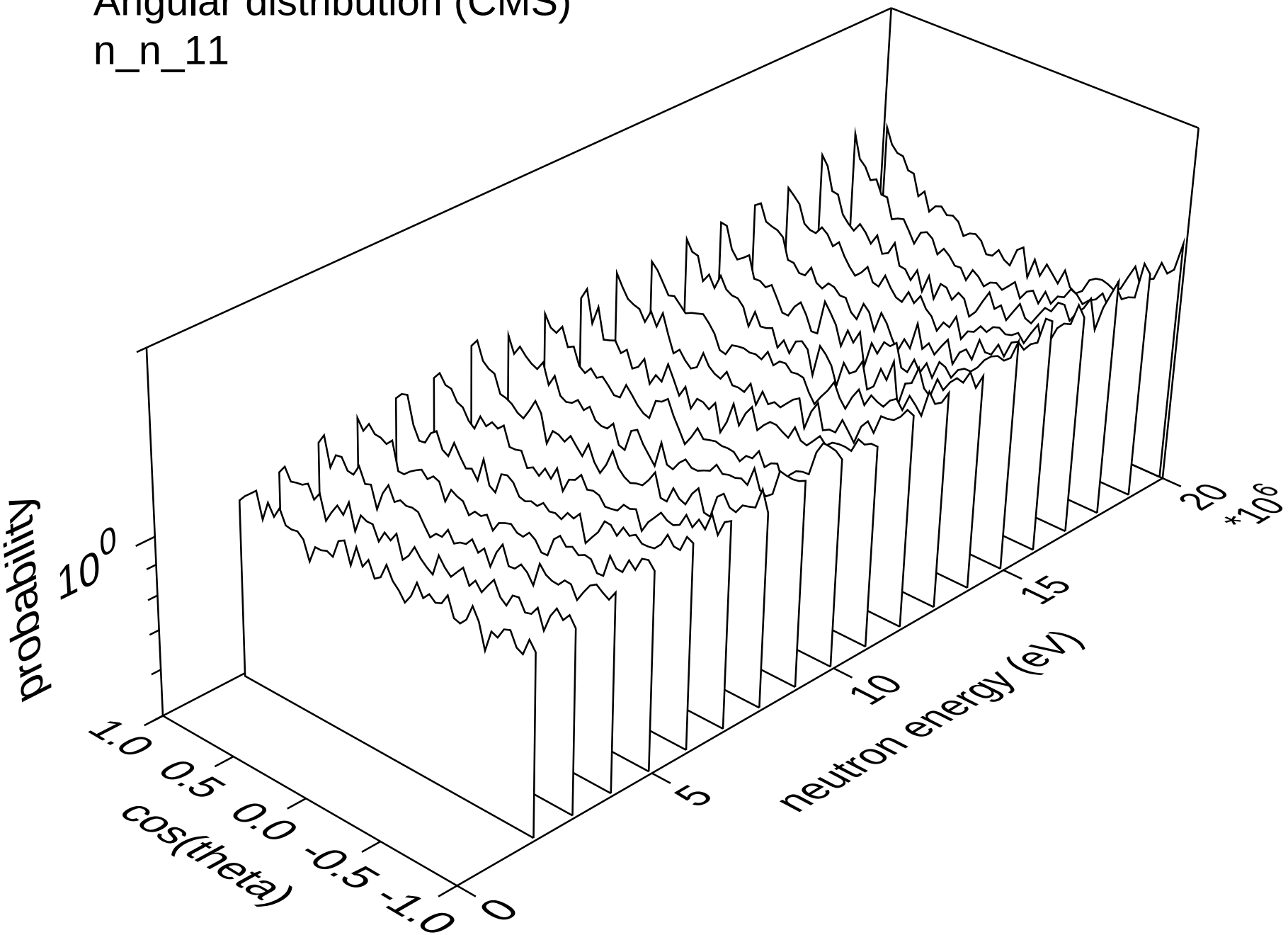

Angular distribution (CMS)
n_n_6
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

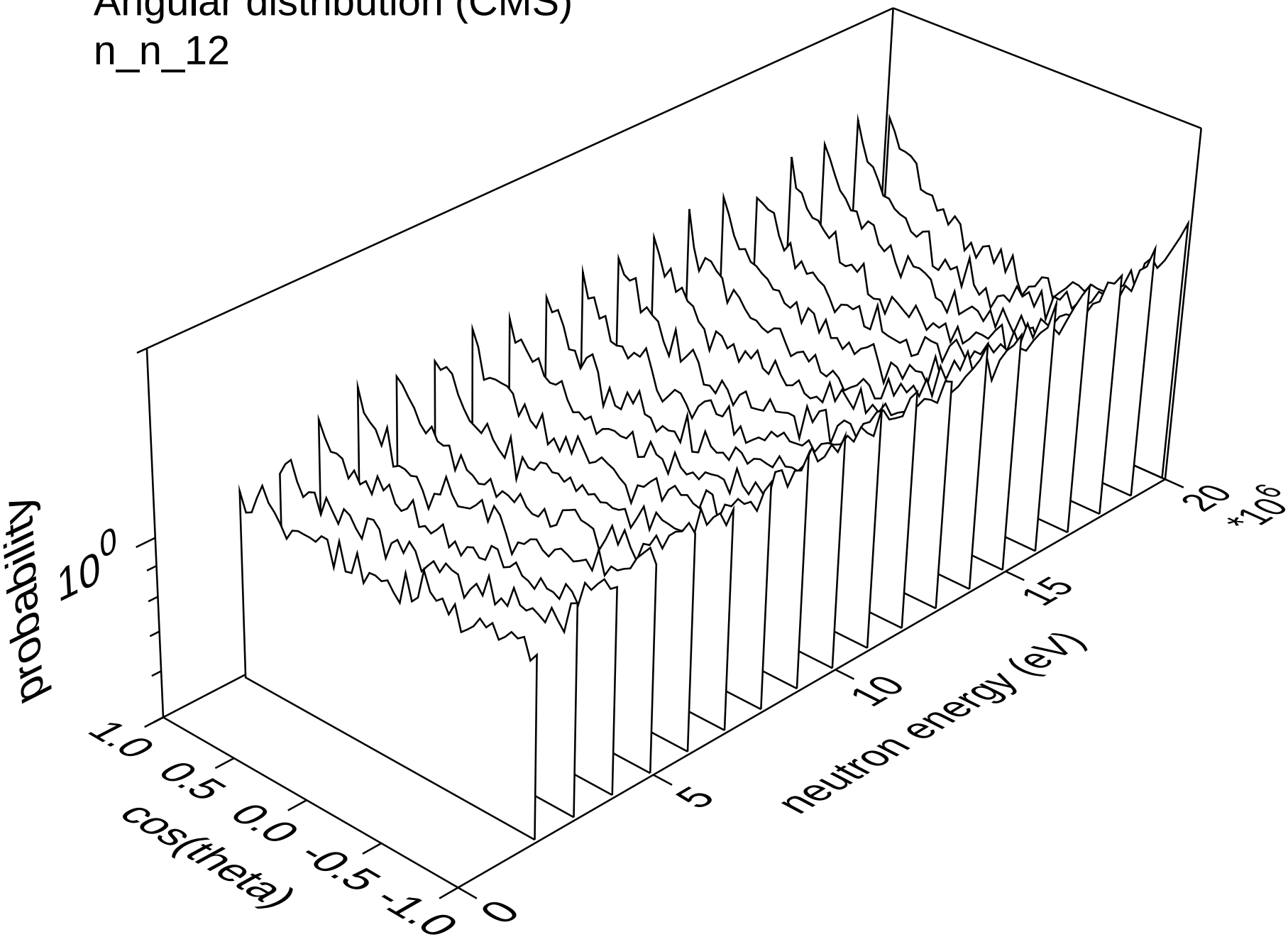

Angular distribution (CMS)
n_n_7
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

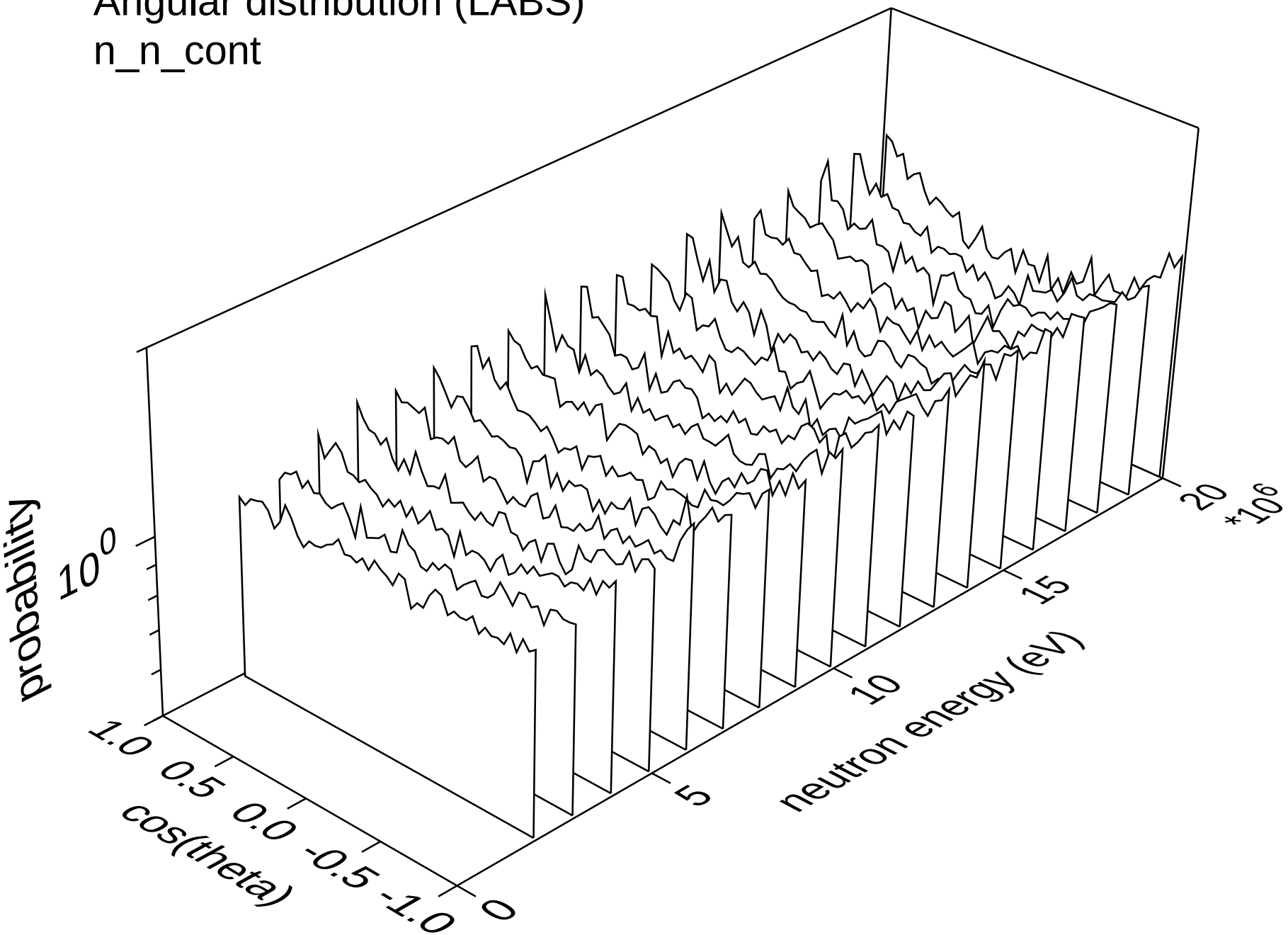

Angular distribution (CMS)
n_n_8
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

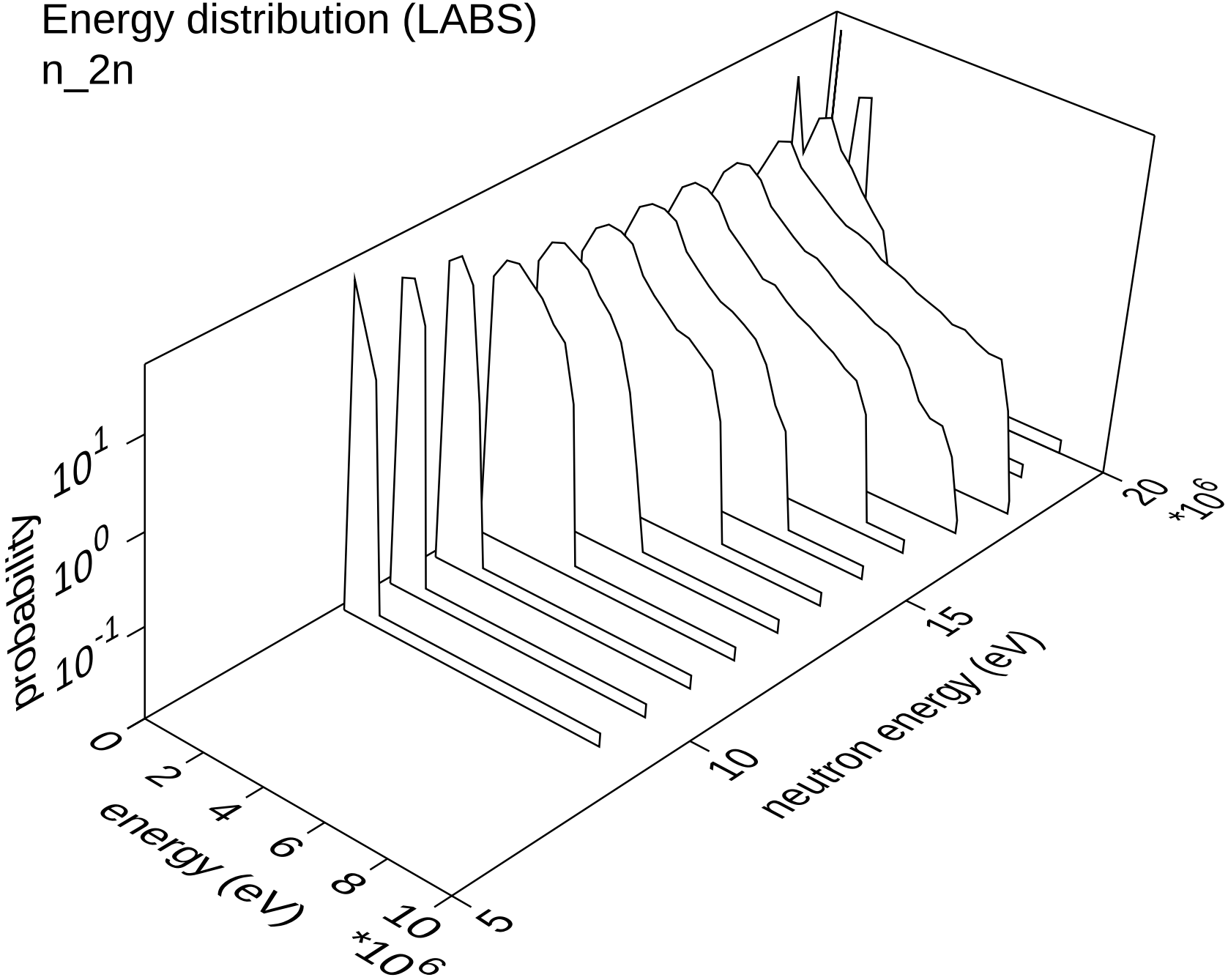

Angular distribution (CMS)
n_n_9
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

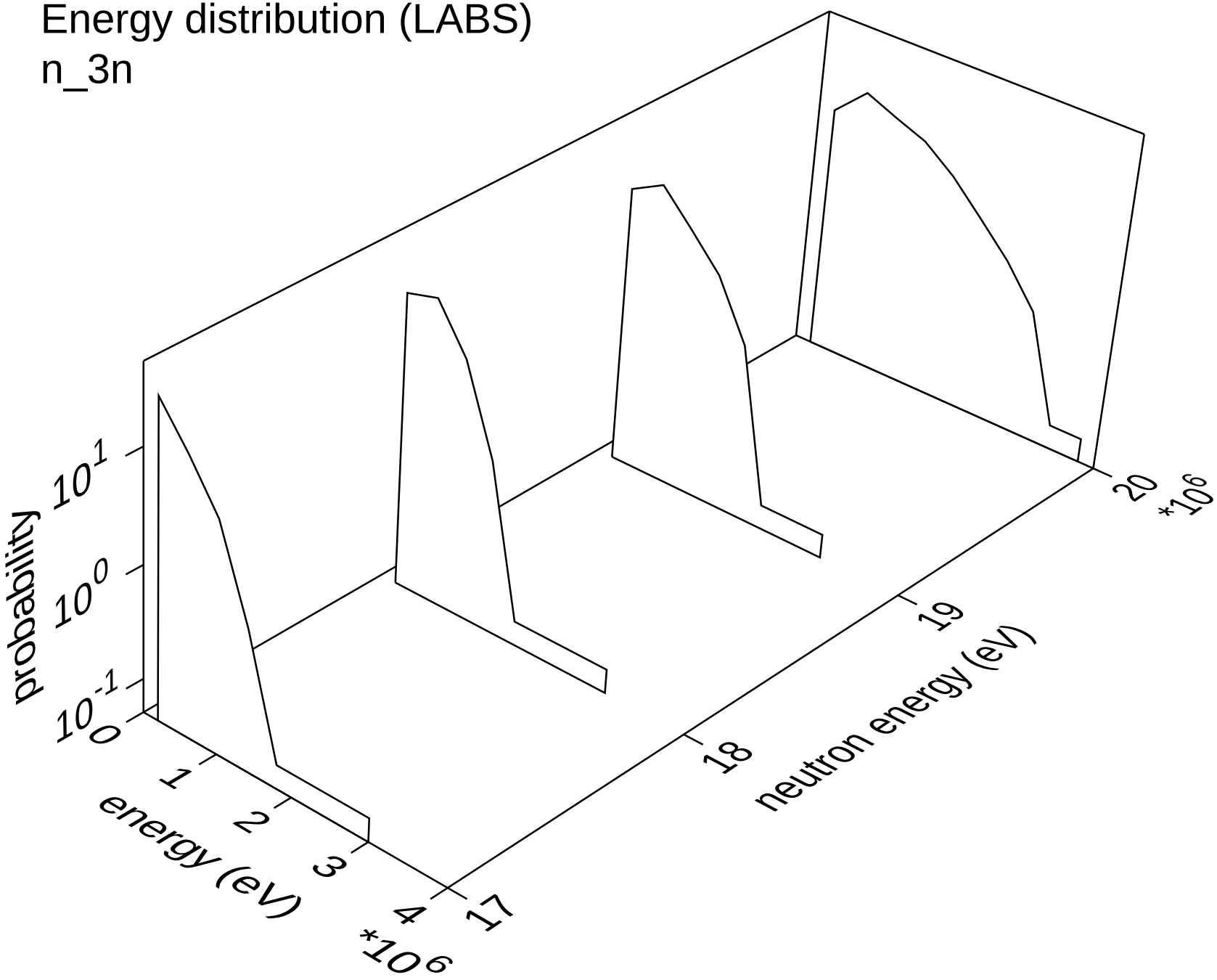

Angular distribution (CMS)
n_n_10
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

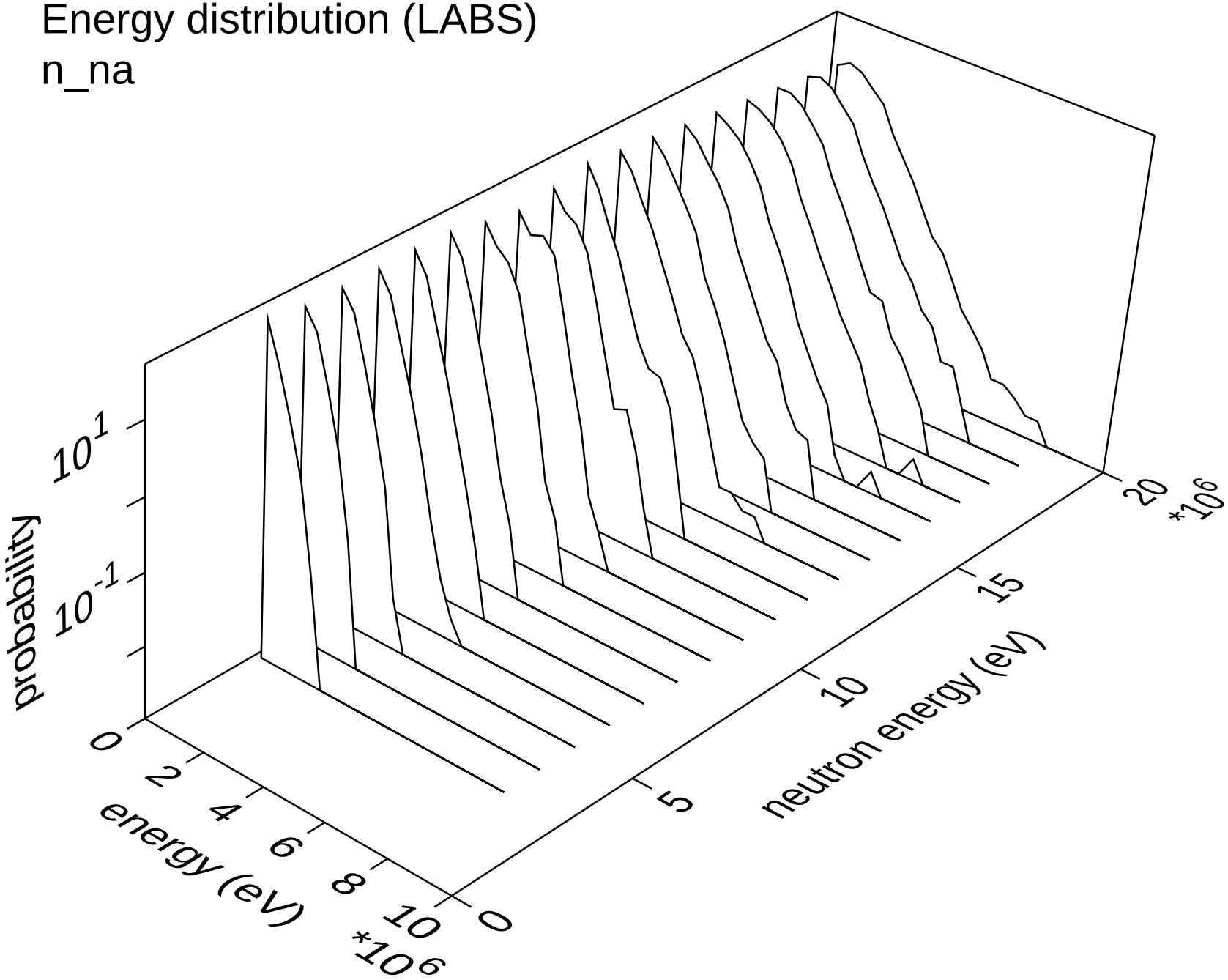

Angular distribution (CMS)
n_n_11
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

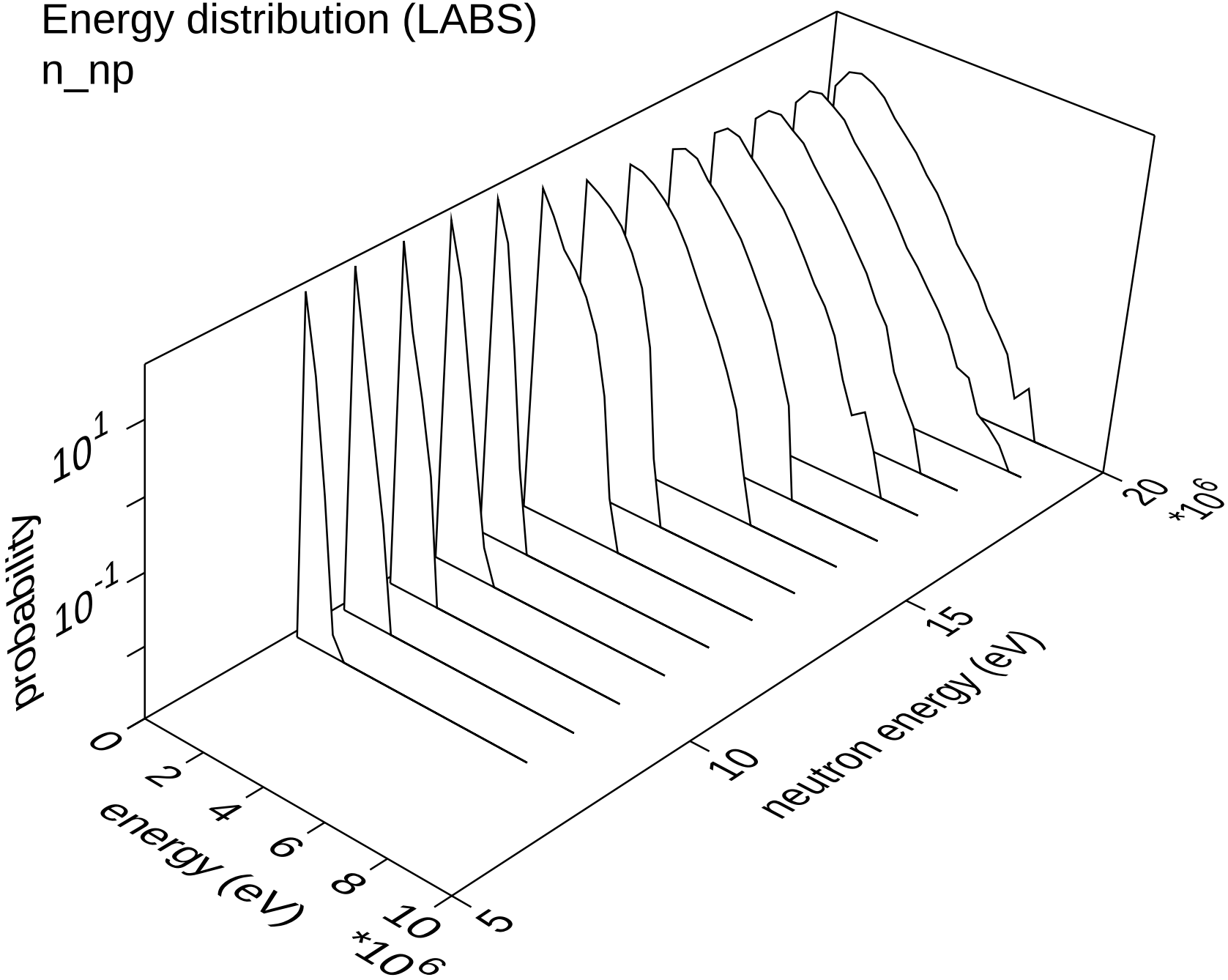

Angular distribution (CMS)
n_n_12
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
neutron energy (eV)
*10^6

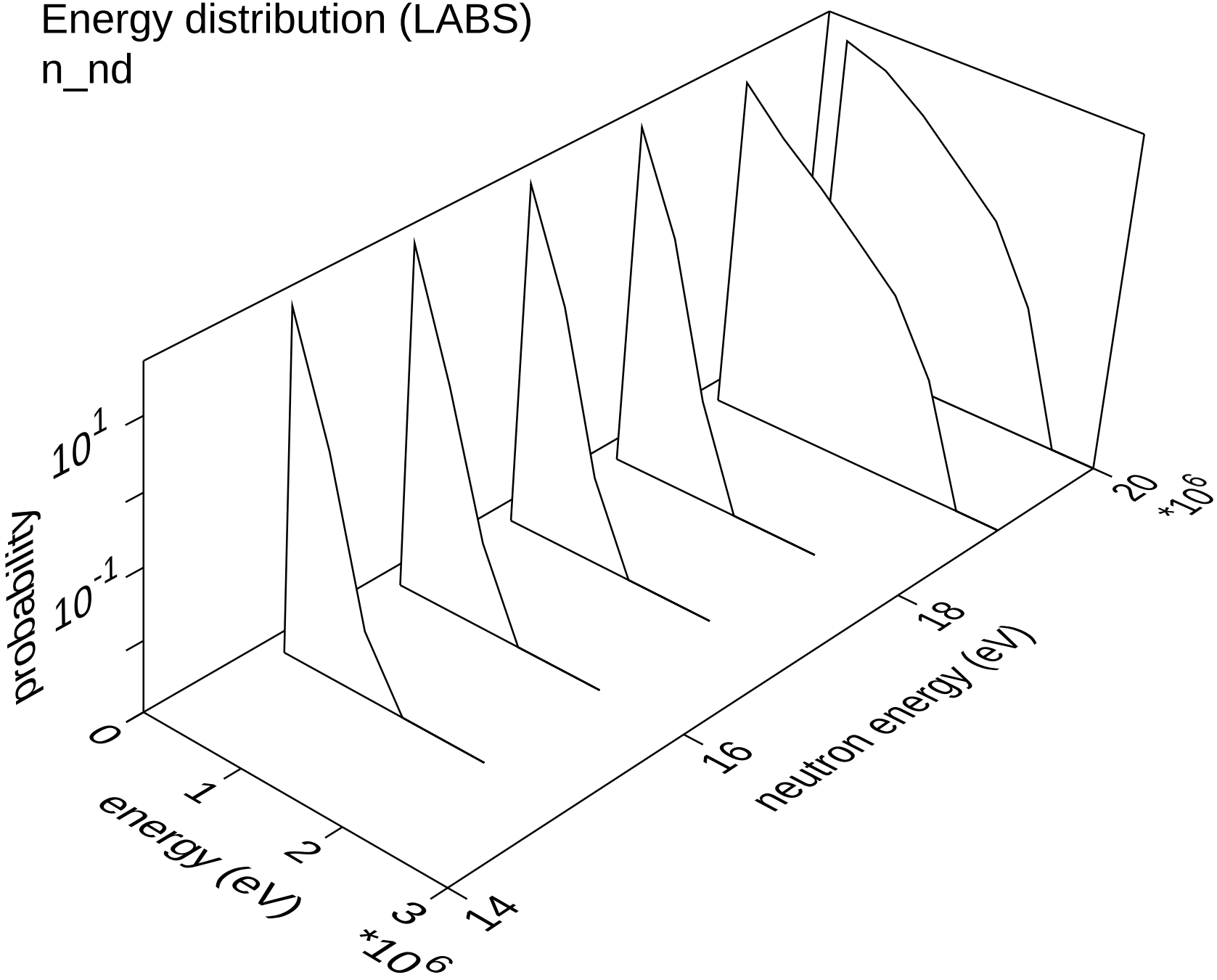

Angular distribution (LABS)
n_n_cont
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

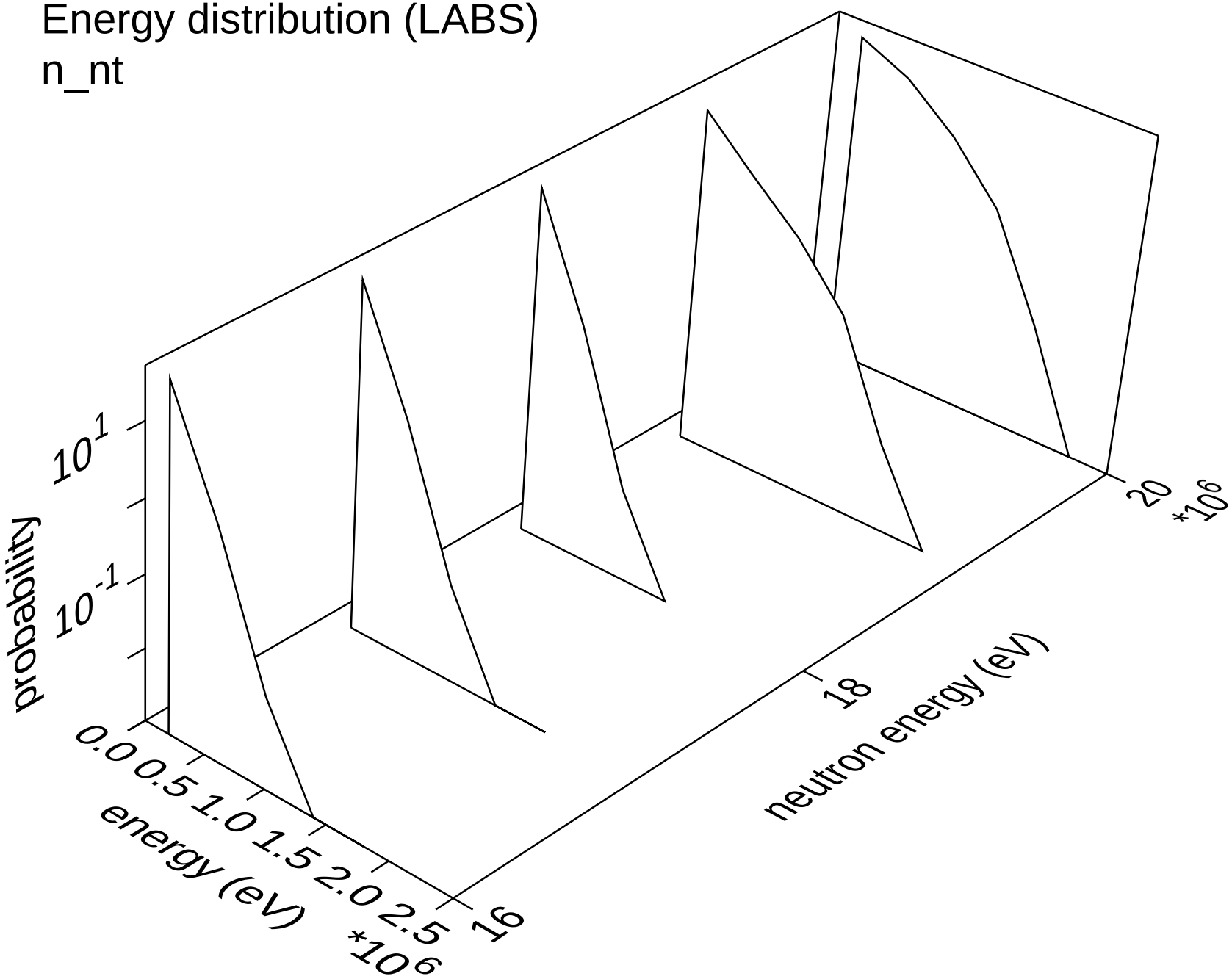

Energy distribution (LABS)
n_2n
probability
10^{1}
10^{0}
10^{-1}
0
2
4
6
8
10
energy (eV)
*10^6
5
10
15
20
neutron energy (eV)
*10^6

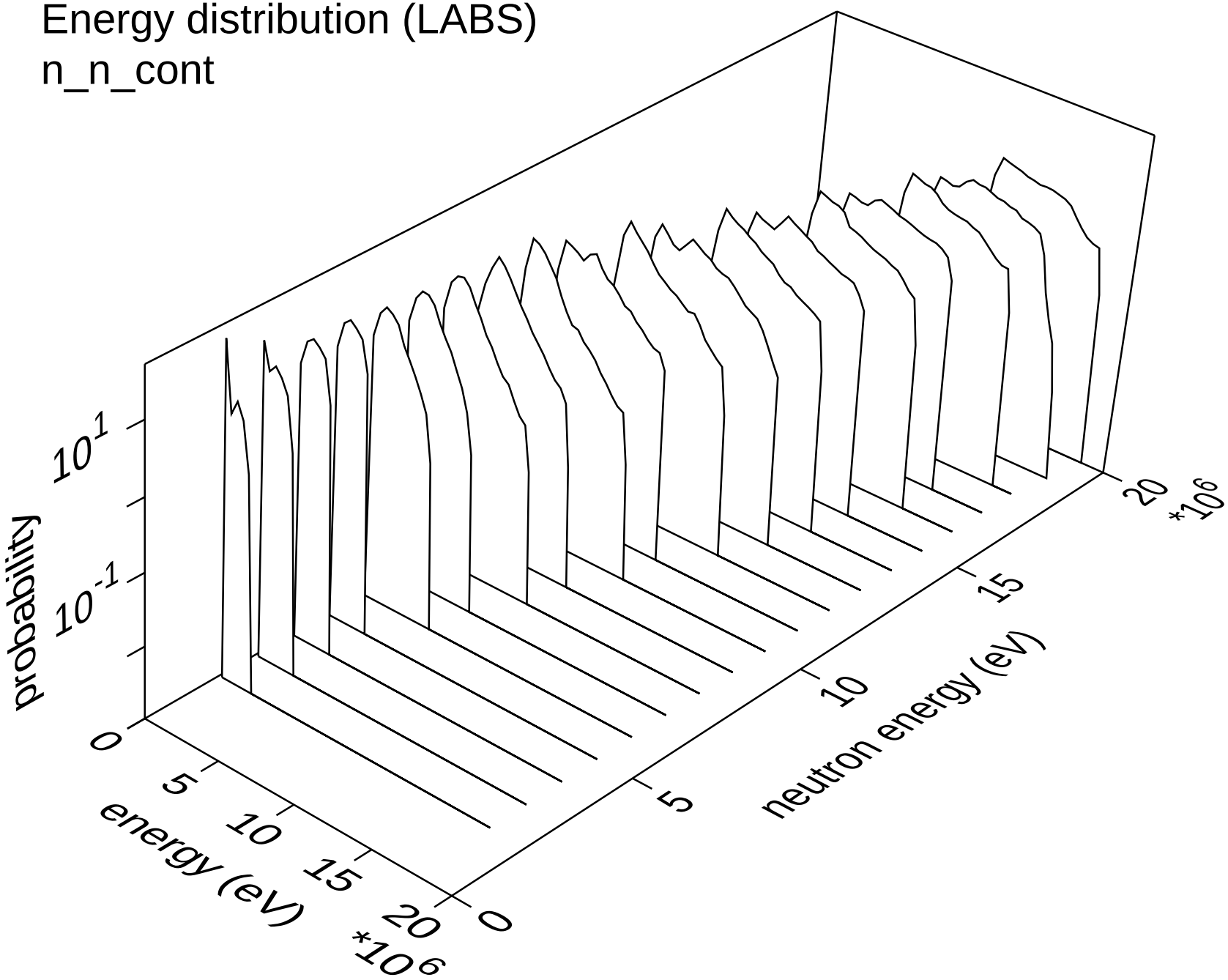

Energy distribution (LABS)
n_3n
probability
10^{1}
10^{0}
10^{-1}
0
1
2
3
4
energy (eV)
*10^6
17
18
19
20
neutron energy (eV)
*10^6


Energy distribution (LABS)
n_na
probability
10^{1}
10^{-1}
0
2
4
6
8
10
*10^6
energy (eV)
0
5
10
15
20
*10^6
neutron energy (eV)


Energy distribution (LABS)
n_np
probability
10^{1}
10^{-1}
0
2
4
6
8
10
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)


Energy distribution (LABS)
n_nd
probability
10^{1}
10^{-1}
0
1
2
3
energy (eV)
*10 6
14
16
18
20
neutron energy (eV)
*10^6


Energy distribution (LABS)
n_nt
probability
10^{1}
10^{-1}
0.0
0.5
1.0
1.5
2.0
2.5
*10^6
energy (eV)
16
18
20
*10^6
neutron energy (eV)


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