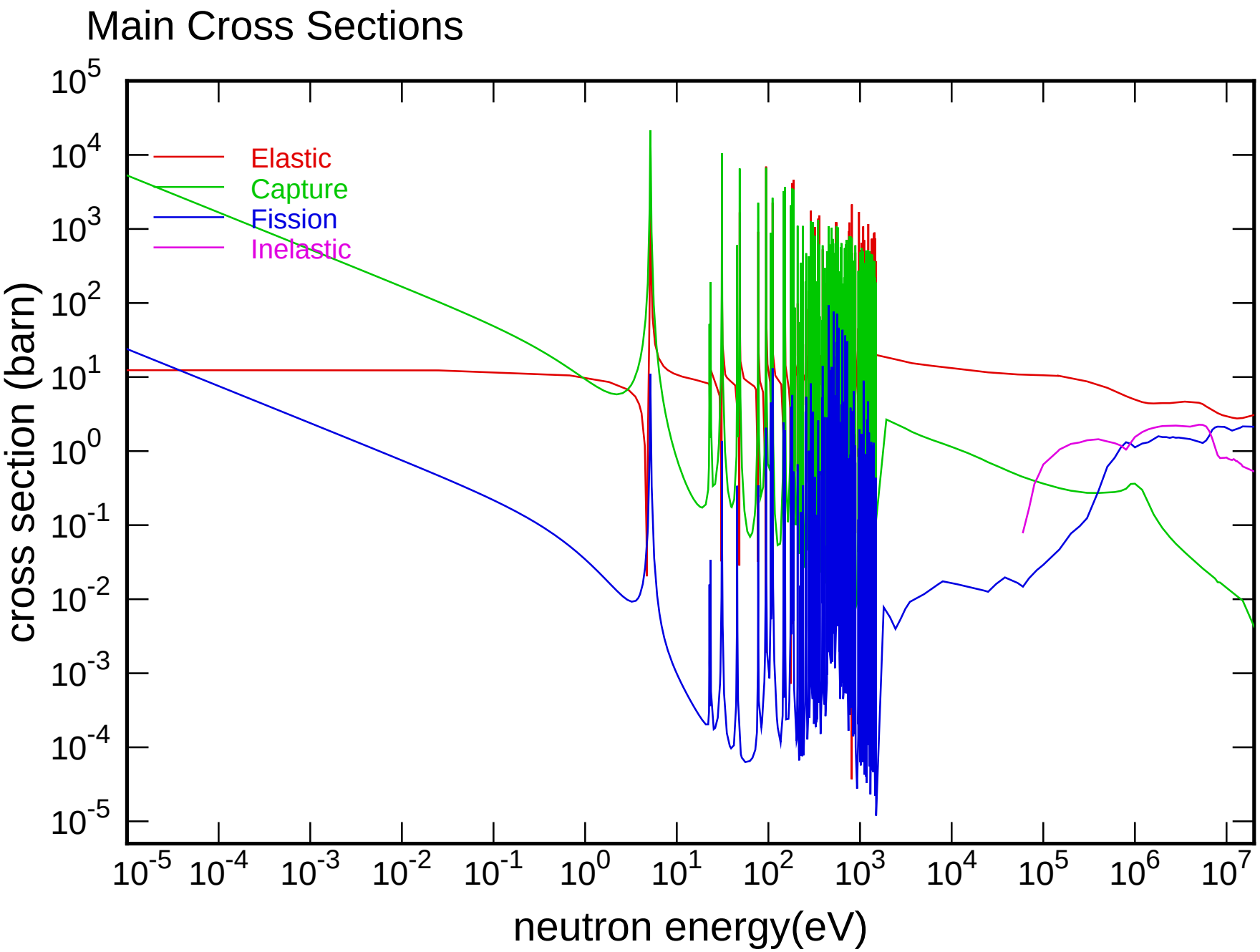
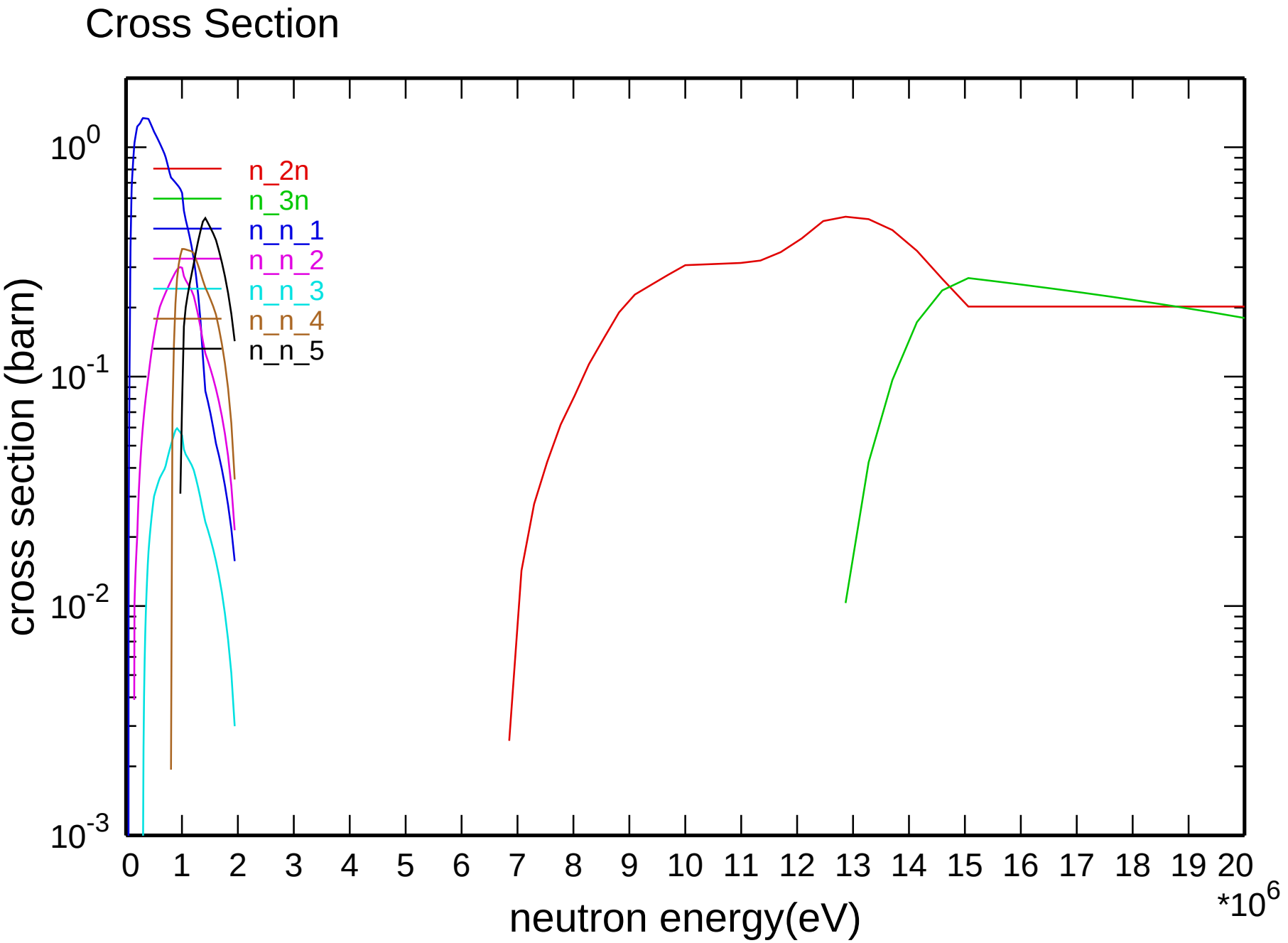
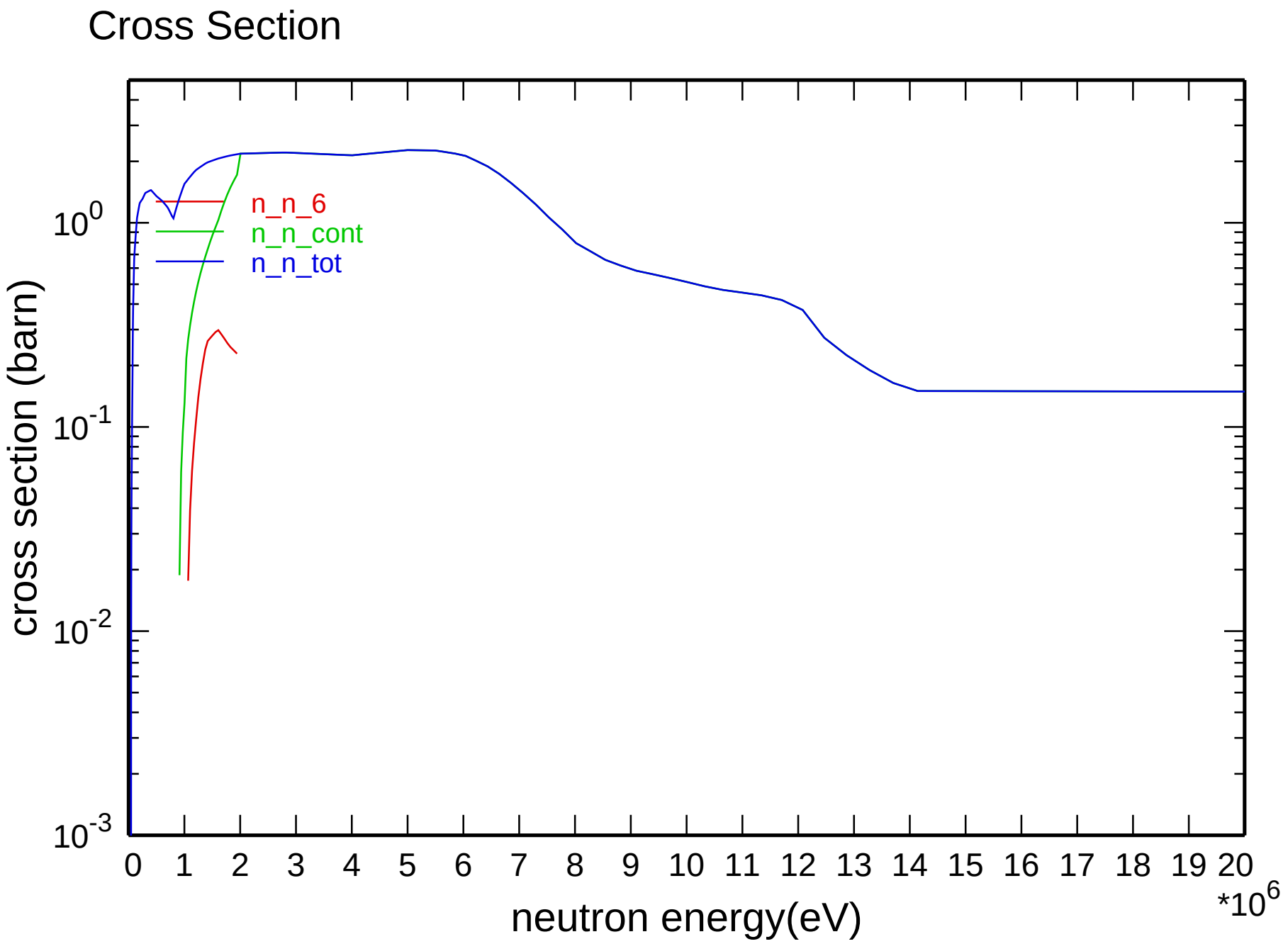
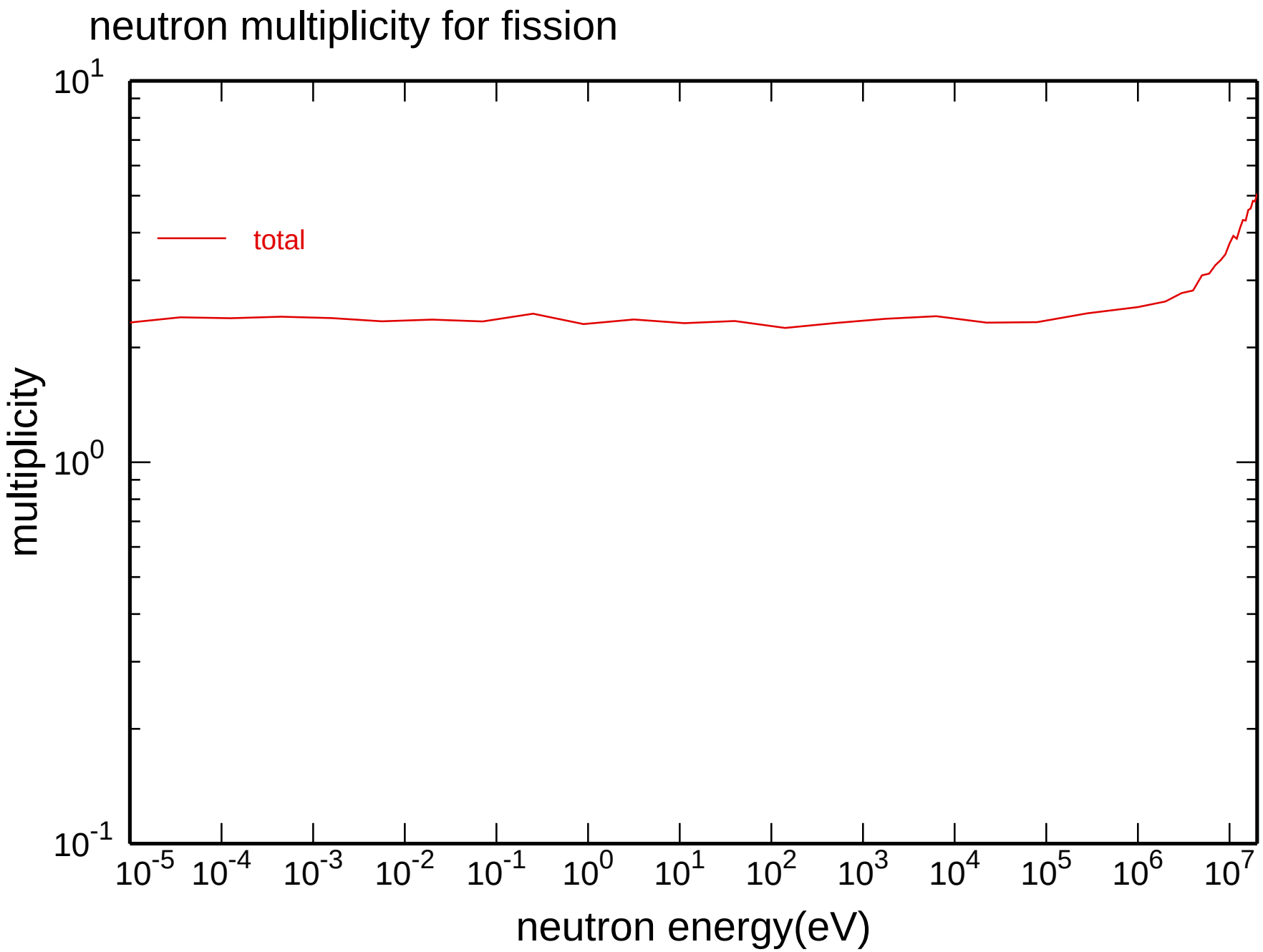
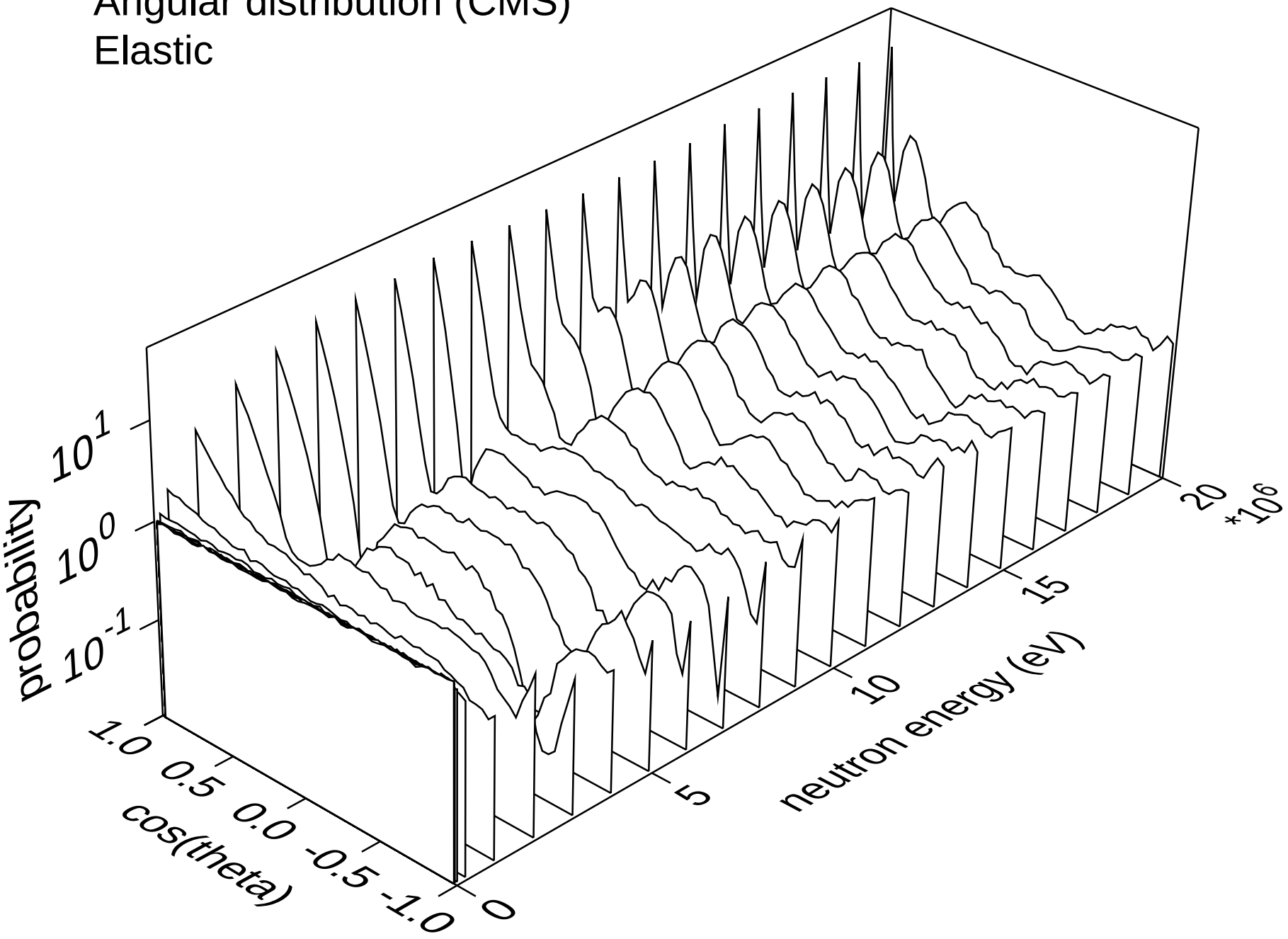
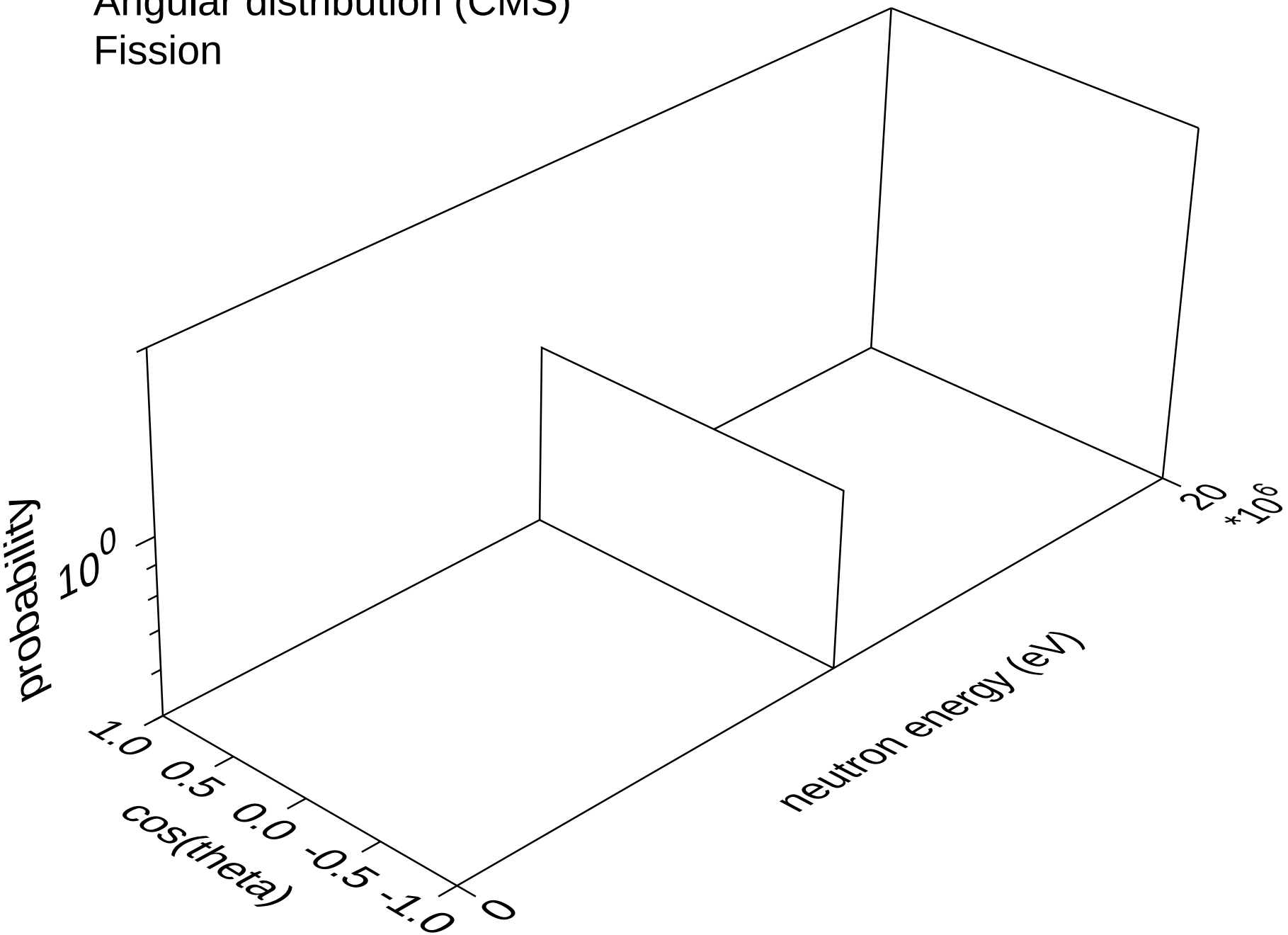

Main Cross Sections
Elastic
Capture
Fission
Inelastic
cross section (barn)
neutron energy(eV)
10^5
10^4
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7

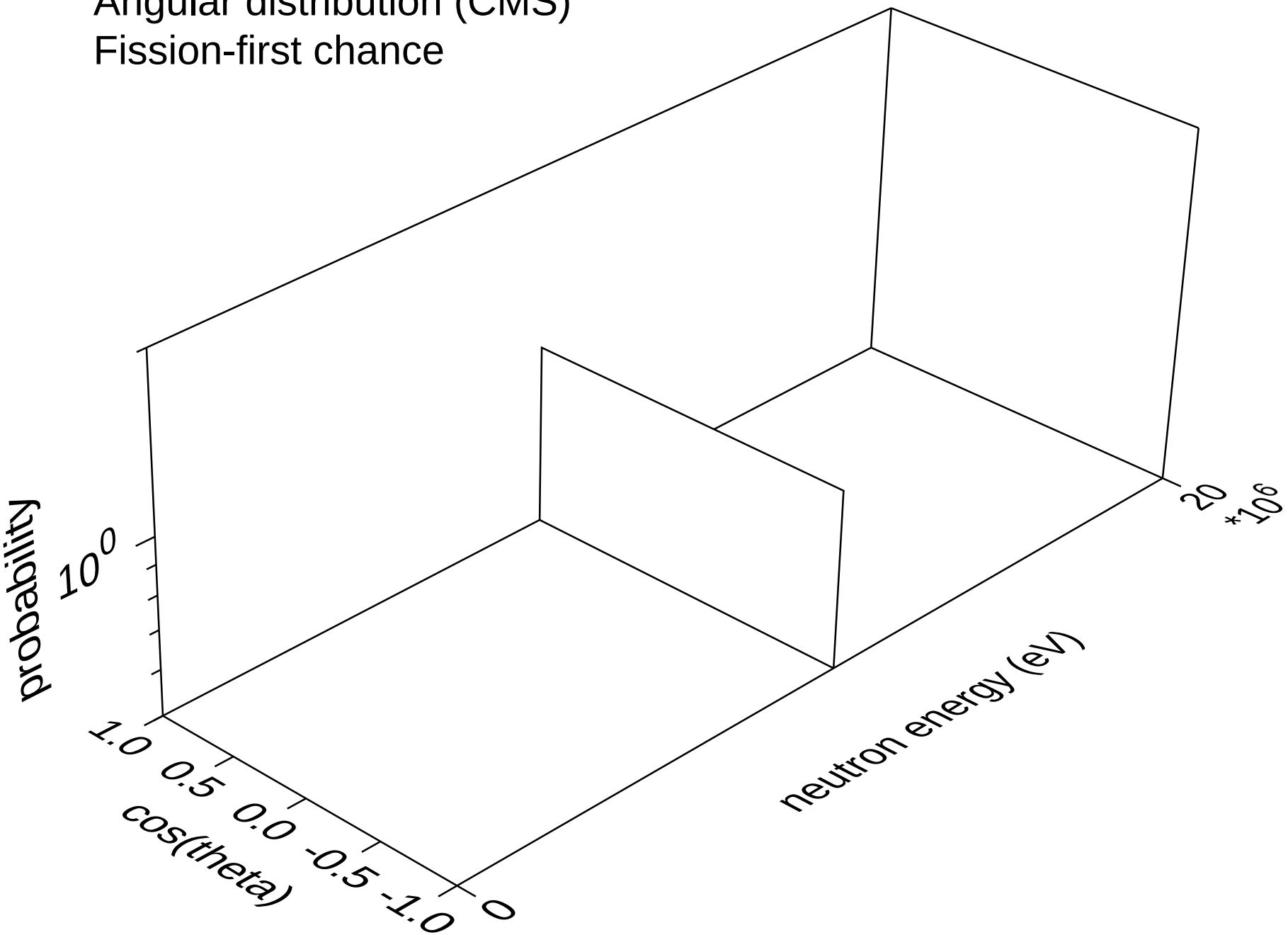

Cross Section
cross section (barn)
10^{0}
10^{-1}
10^{-2}
10^{-3}
n_2n
n_3n
n_n_1
n_n_2
n_n_3
n_n_4
n_n_5
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^{6}
neutron energy(eV)

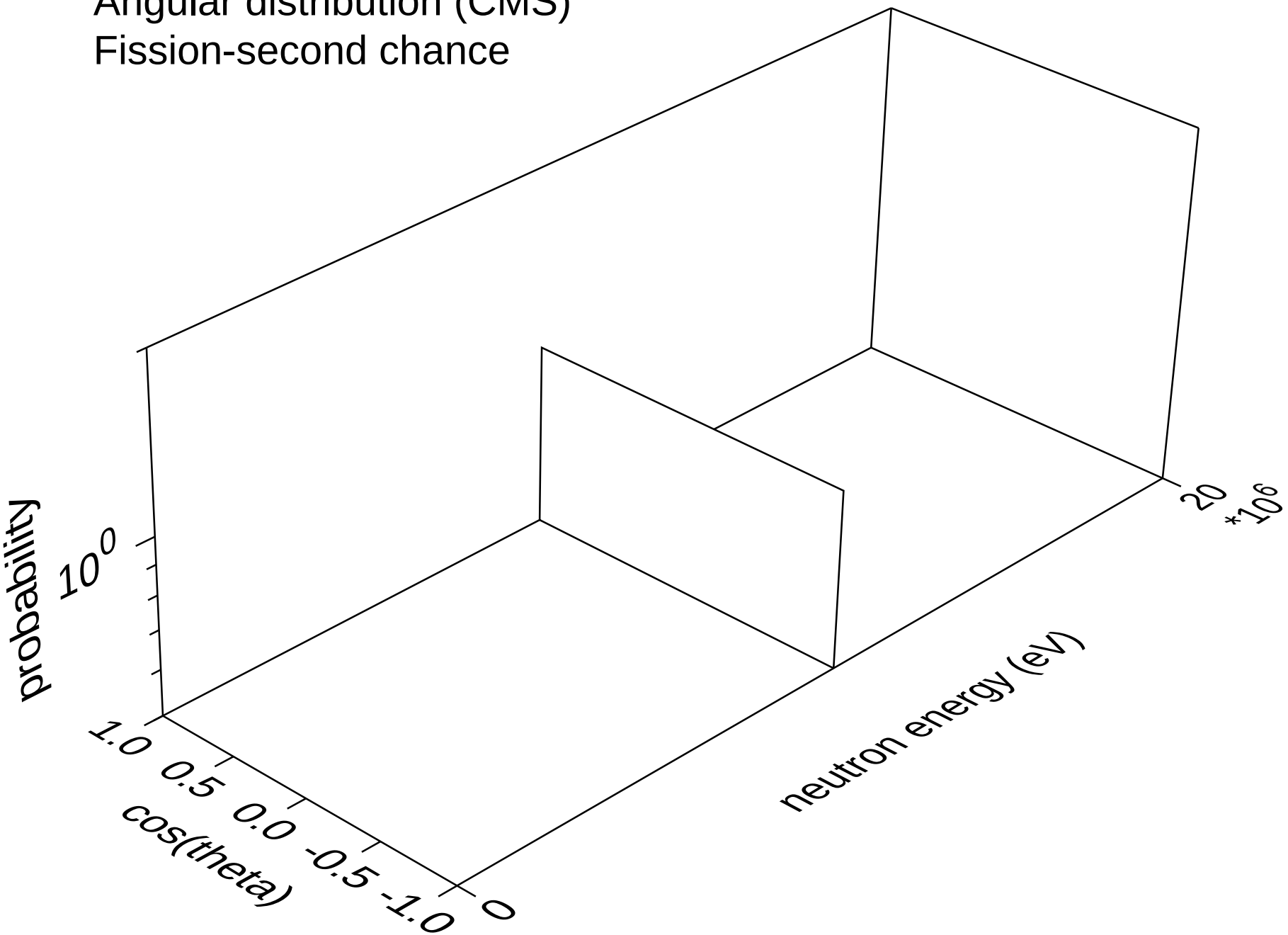

Cross Section
n_n_6
n_n_cont
n_n_tot
cross section (barn)
10^{0}
10^{-1}
10^{-2}
10^{-3}
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
*10^{6}
neutron energy(eV)

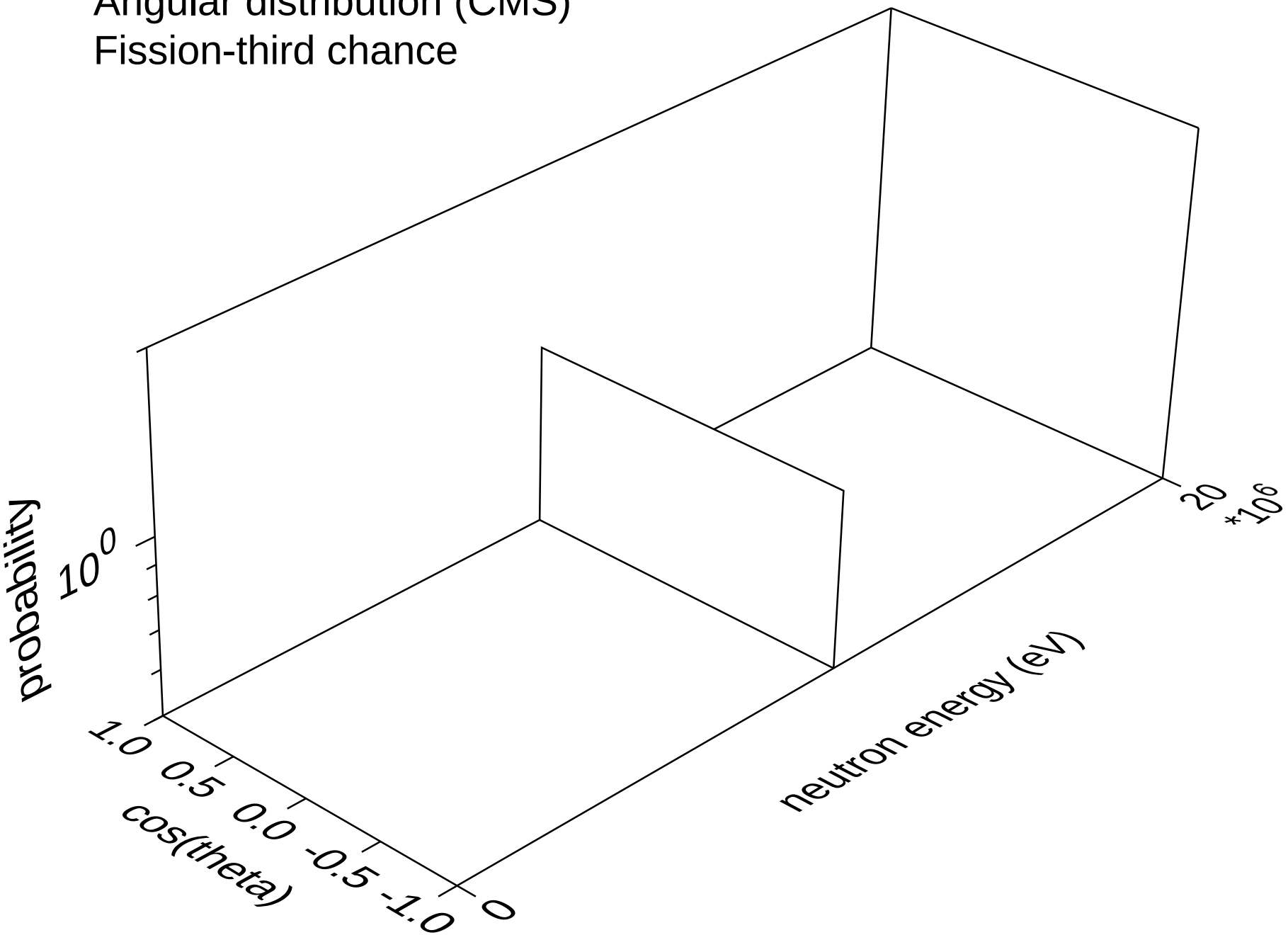

neutron multiplicity for fission
multiplicity
neutron energy(eV)
total
10^{1}
10^{0}
10^{-1}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7}

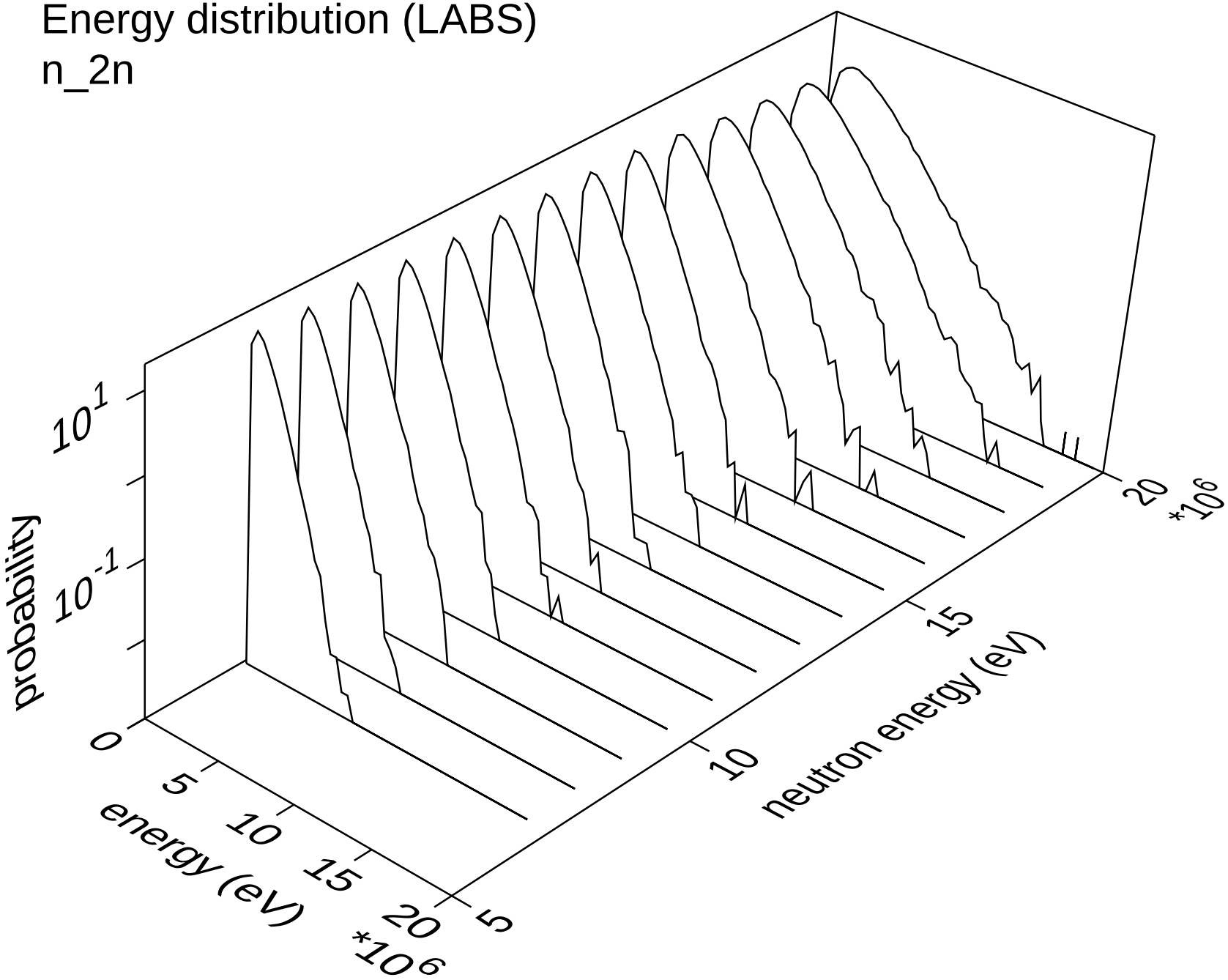

Angular distribution (CMS)
Elastic
probability
10^{1}
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

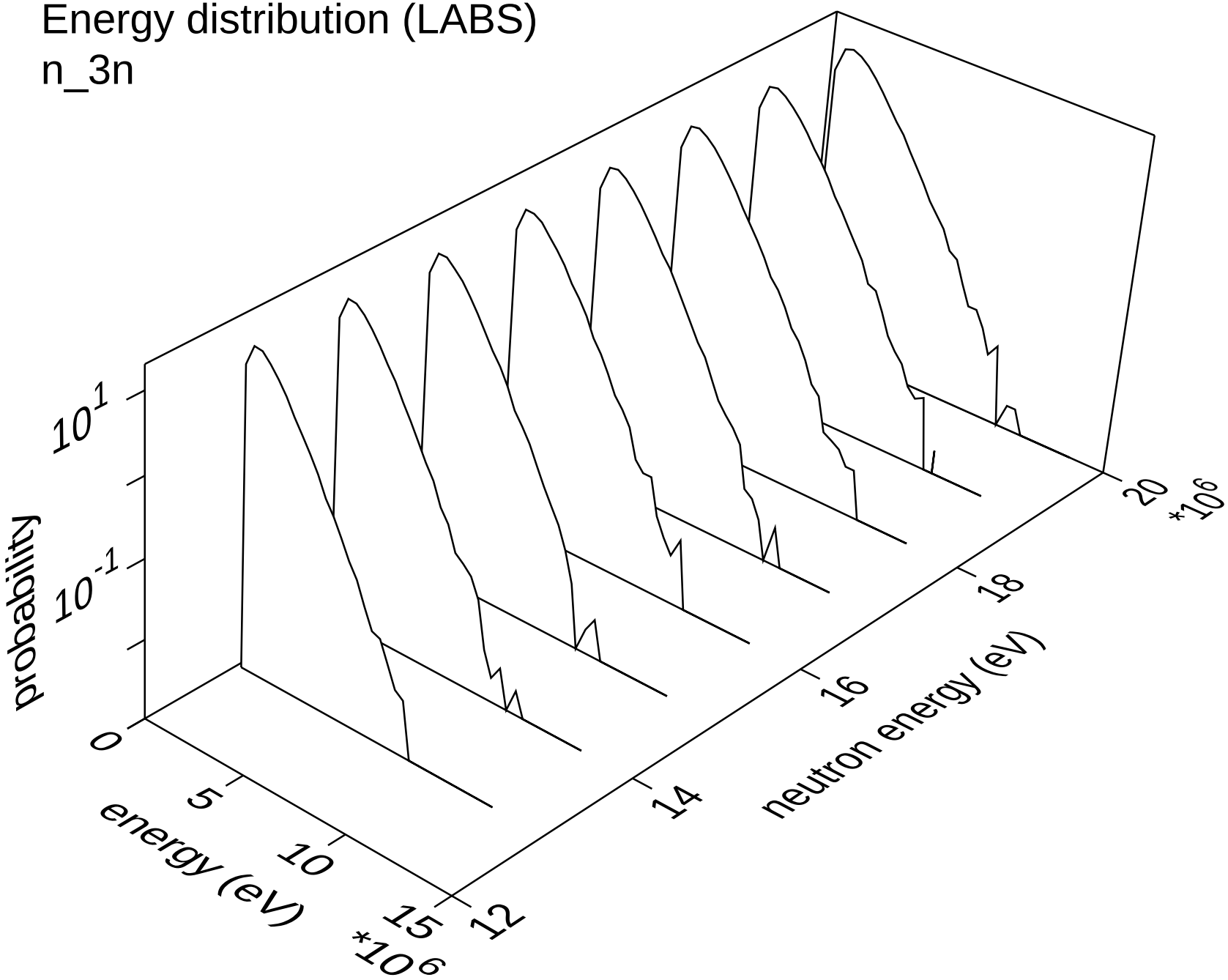

Angular distribution (CMS)
Fission
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
20
$*10^6$
neutron energy (eV)

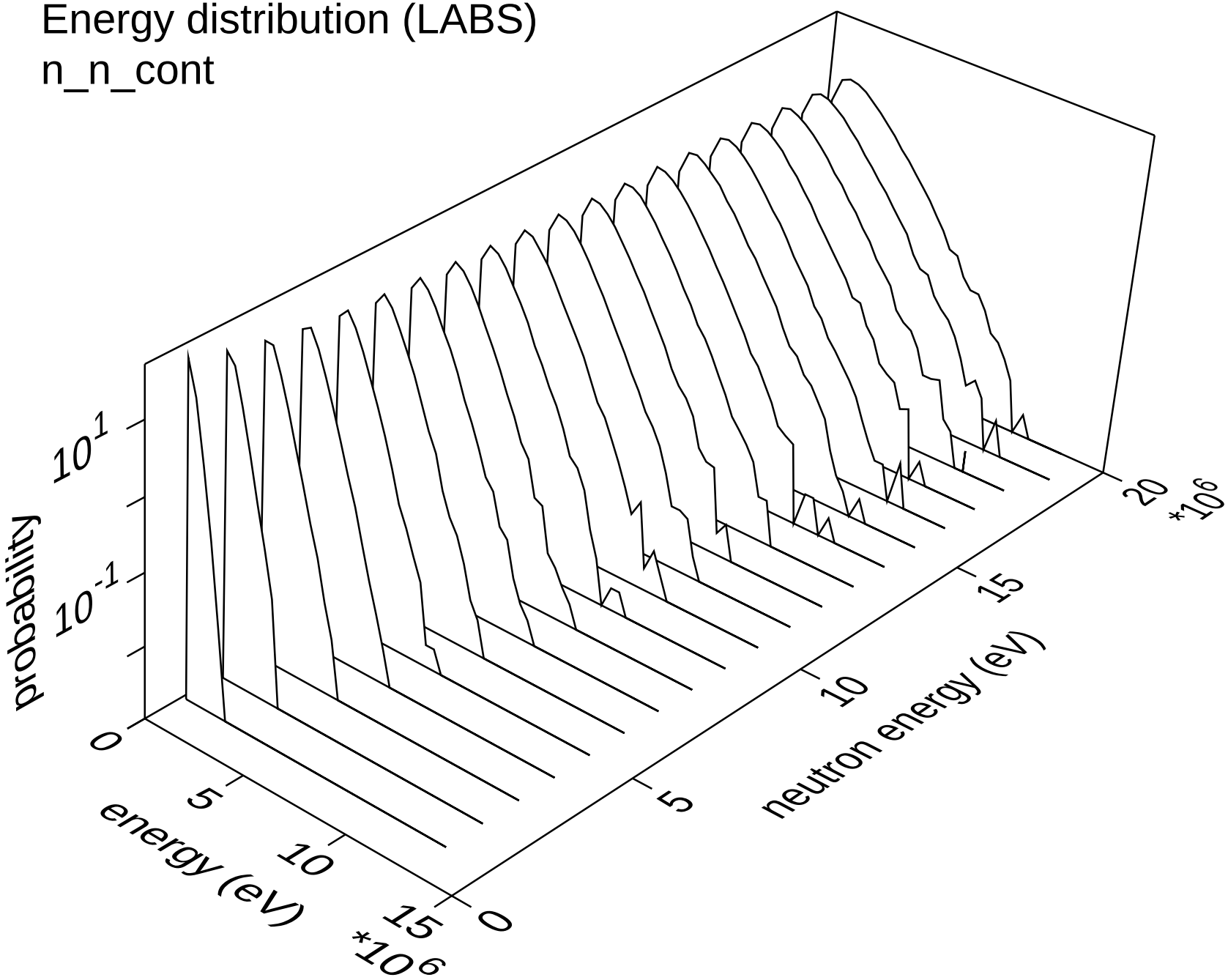

Angular distribution (CMS)
Fission-first chance
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
20
*10^6
neutron energy (eV)

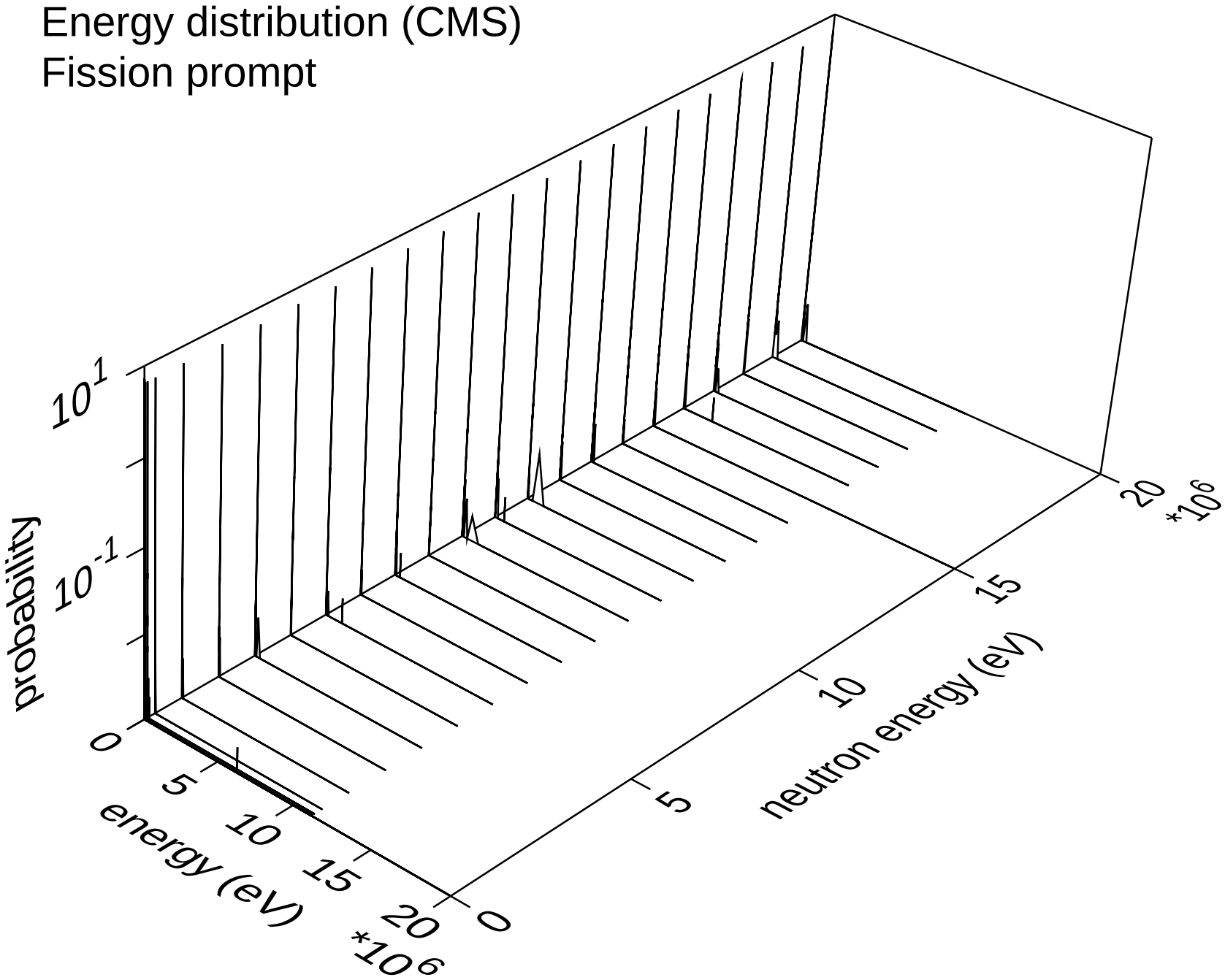

Angular distribution (CMS)
Fission-second chance
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
20
*10^6
neutron energy (eV)

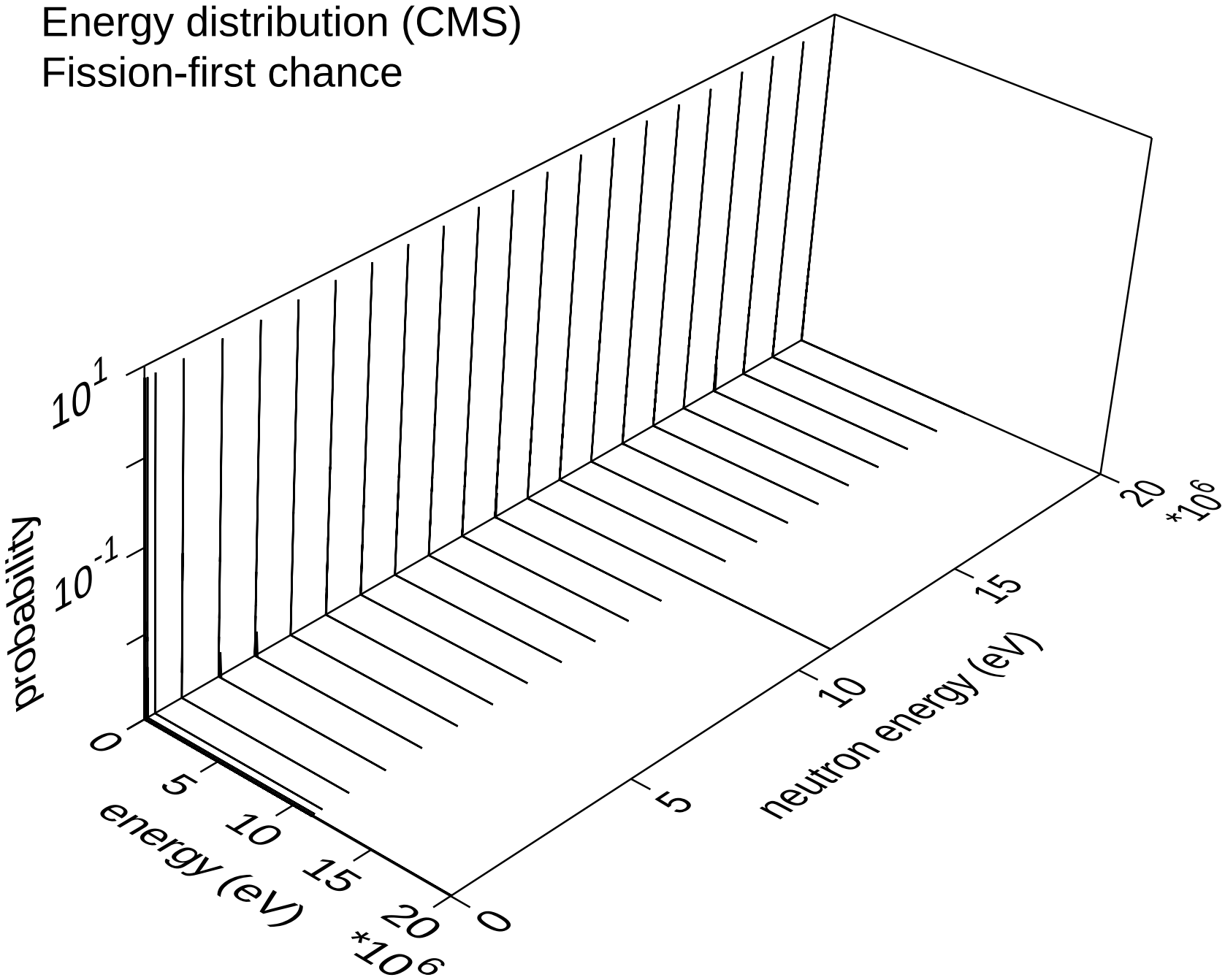

Angular distribution (CMS)
Fission-third chance
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
20
*10^6
neutron energy (eV)

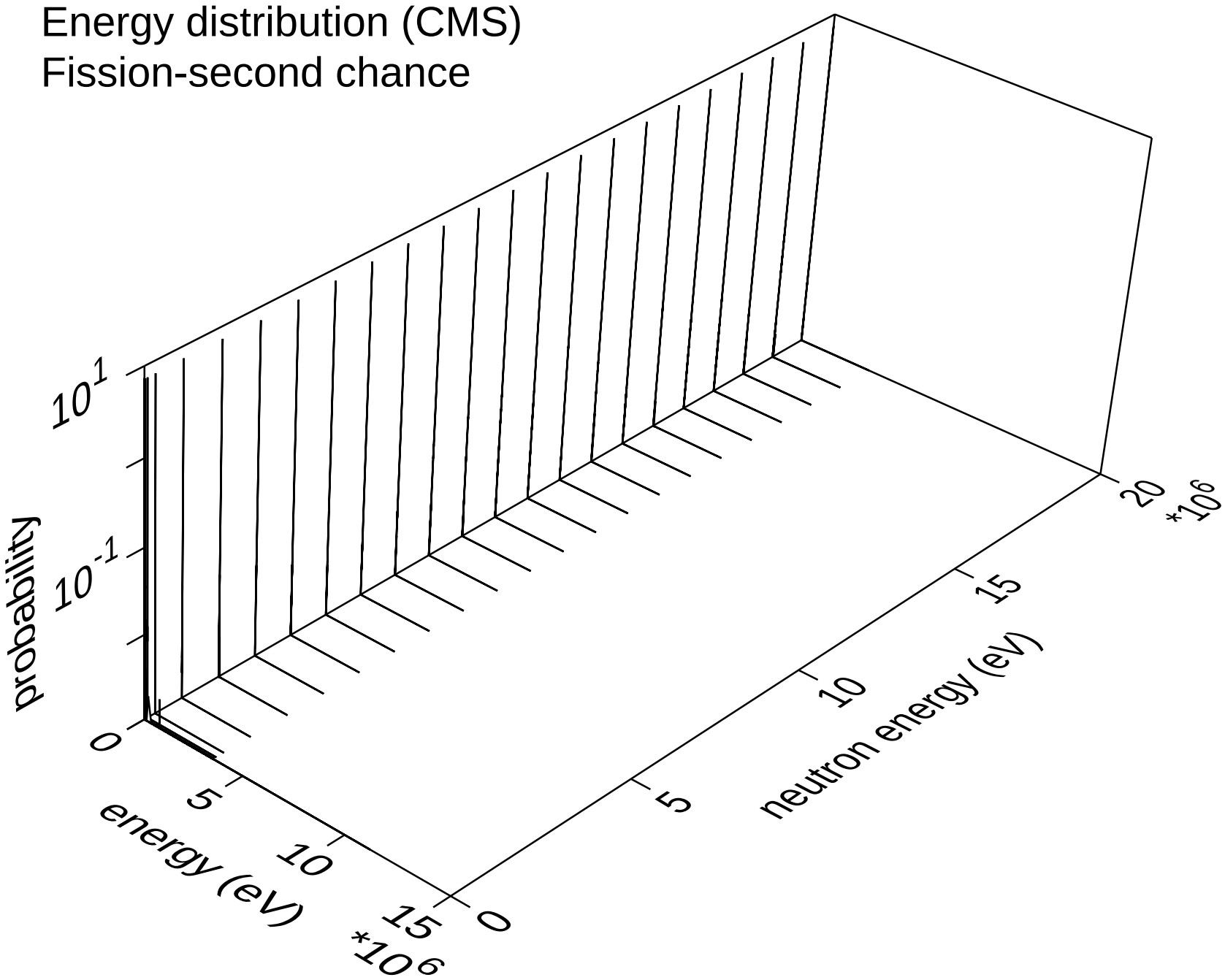

Energy distribution (LABS)
n_2n
probability
10^{1}
10^{-1}
0
5
10
15
20
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)

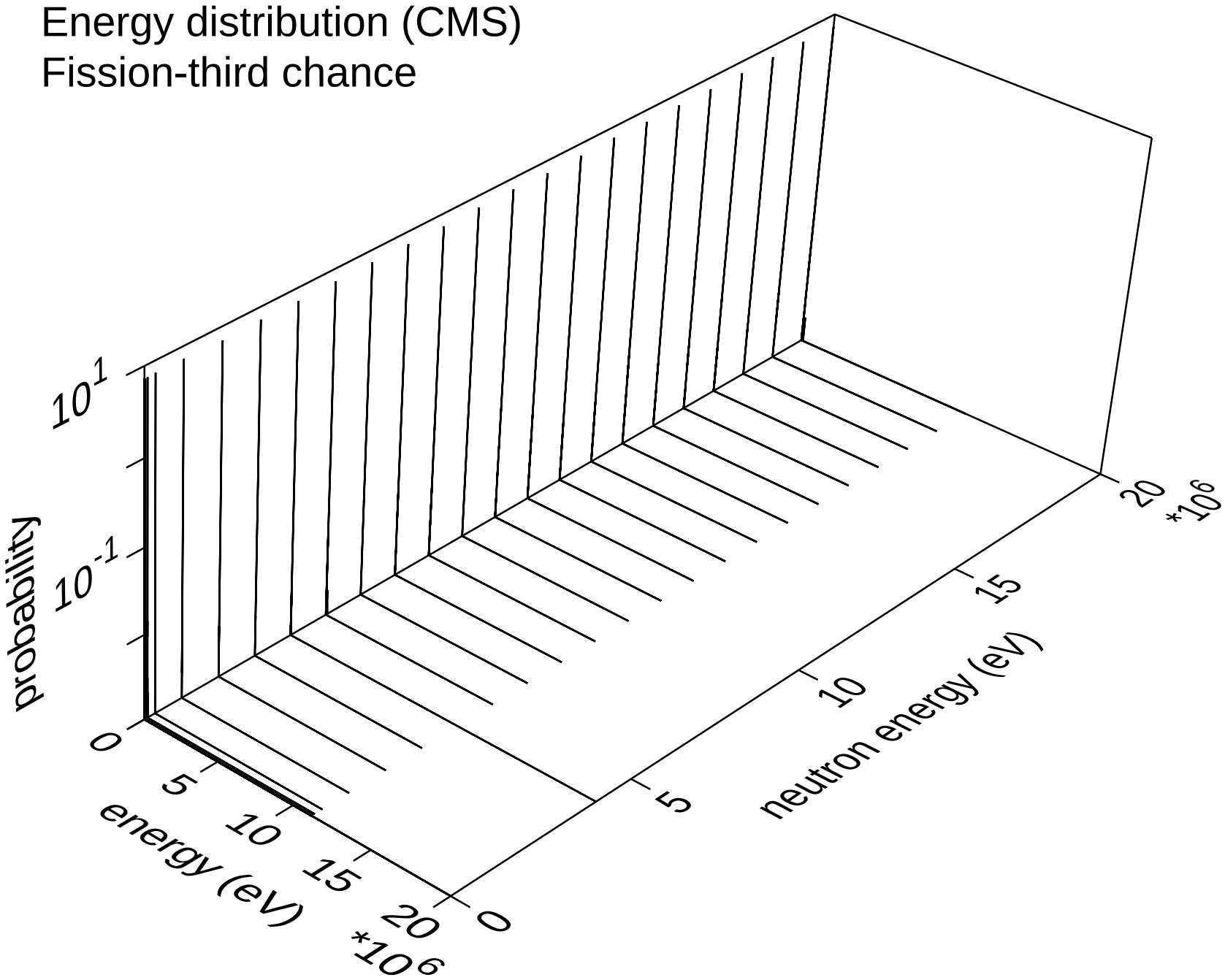

Energy distribution (LABS)
n_3n
probability
10^{1}
10^{-1}
0
5
10
15
*10^6
energy (eV)
12
14
16
18
20
*10^6
neutron energy (eV)

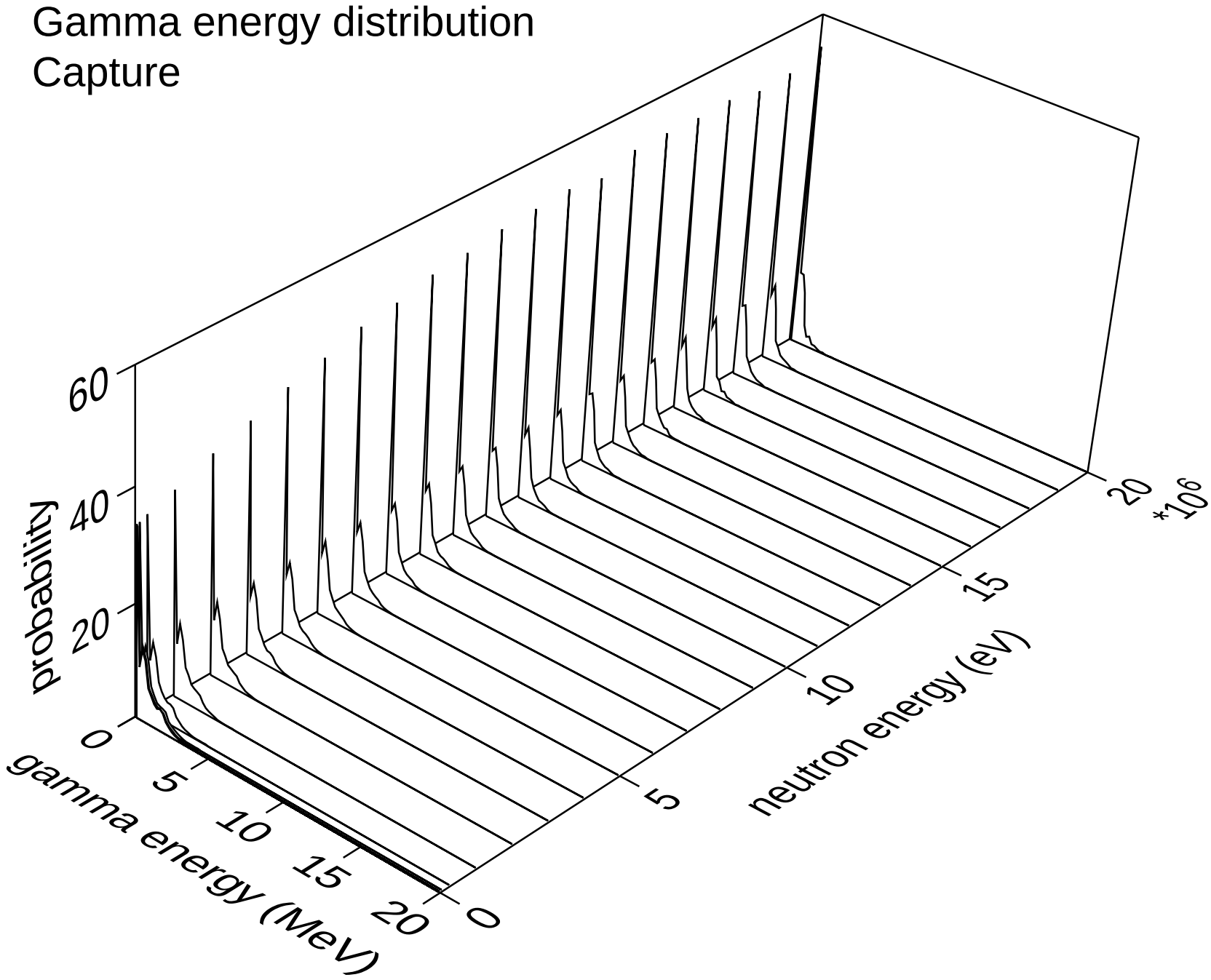

Energy distribution (LABS)
n_n_cont
probability
10^{1}
10^{-1}
0
5
10
15
*10^6
energy (eV)
0
5
10
15
20
*10^6
neutron energy (eV)

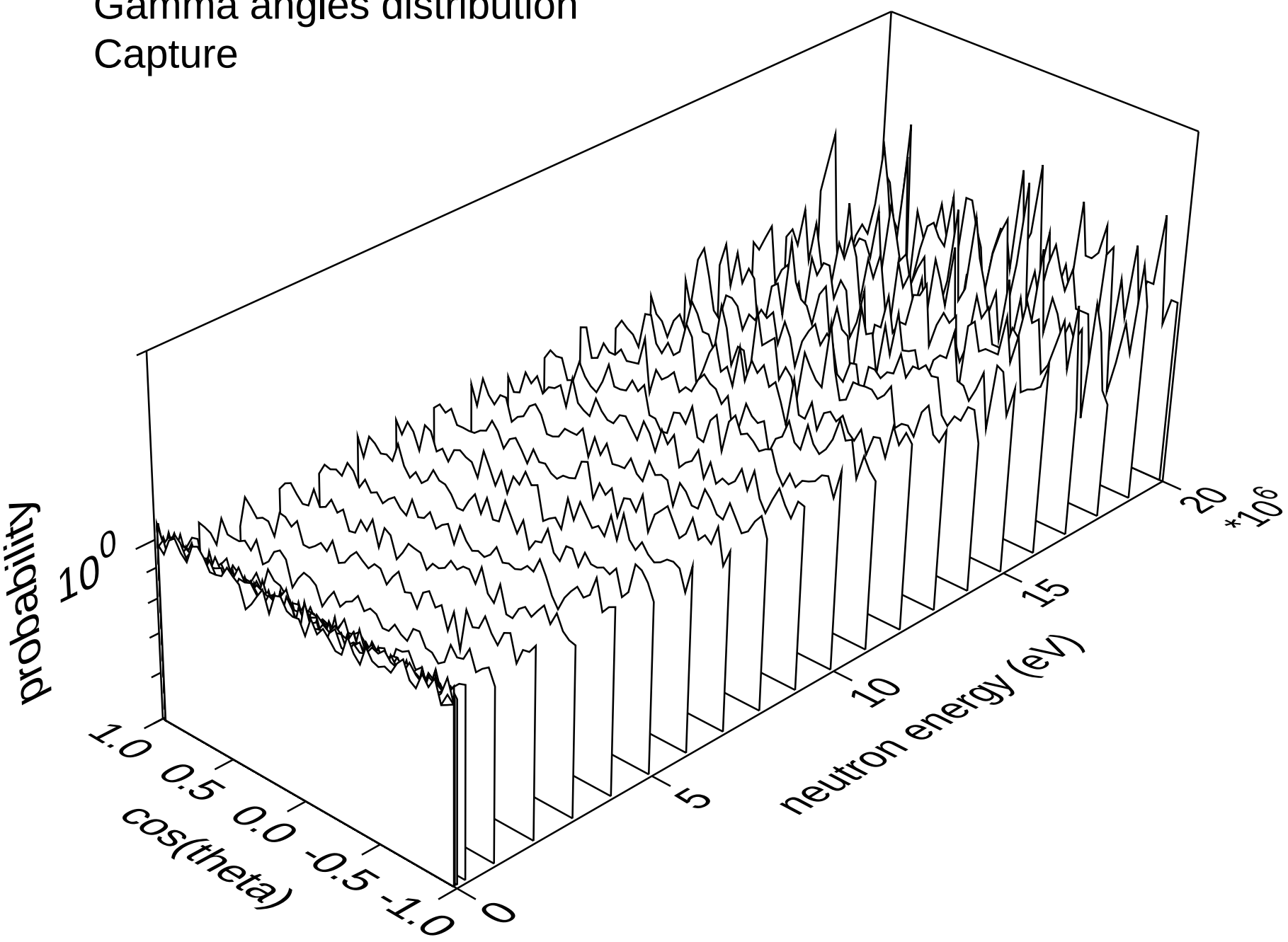

Energy distribution (CMS)
Fission prompt
probability
10^{1}
10^{-1}
0
5
10
15
20
*10^6
energy (eV)
0
5
10
15
20
*10^6
neutron energy (eV)


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

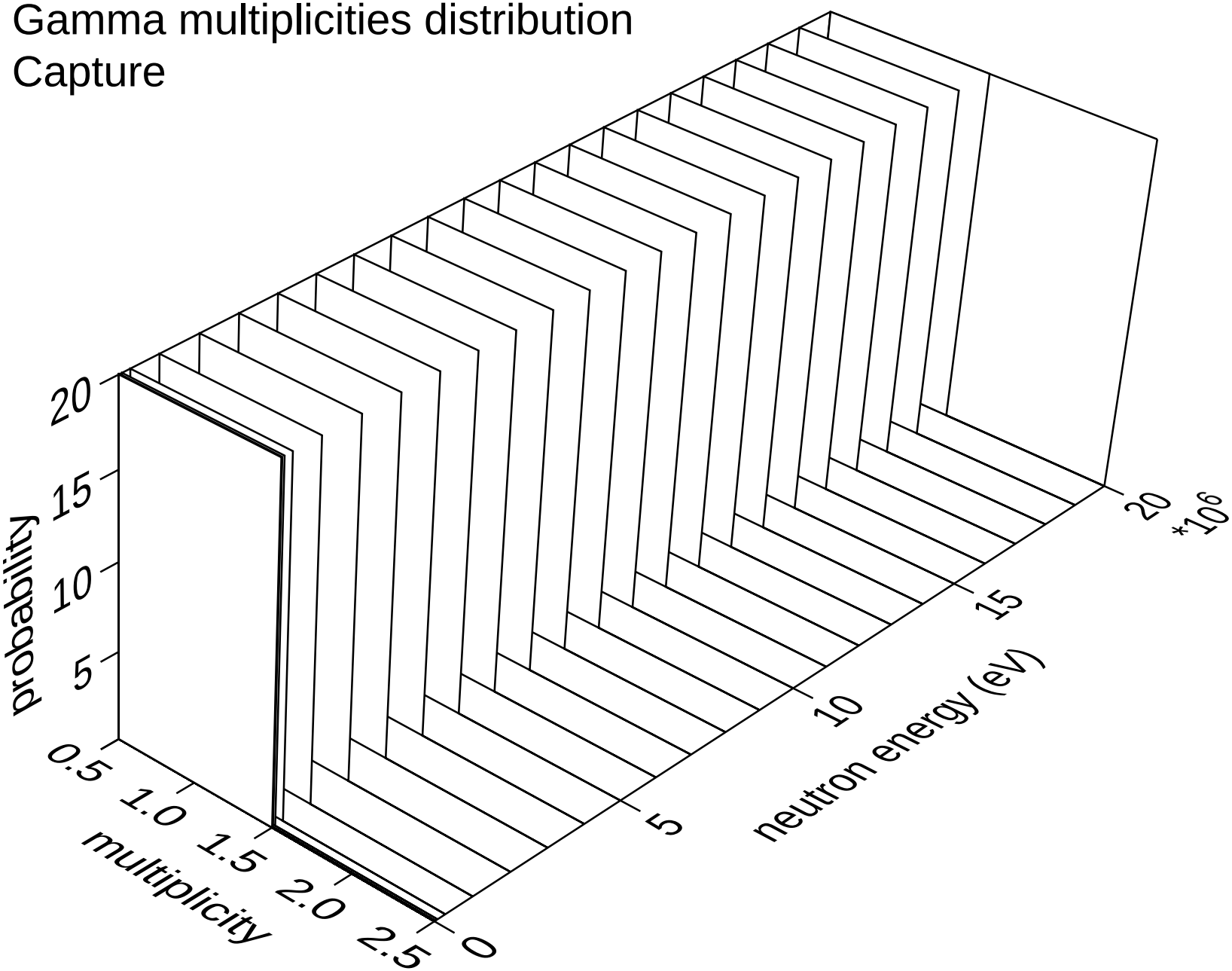

Energy distribution (CMS)
Fission-second chance
probability
10^{1}
10^{-1}
0
5
10
15
*10⁶
energy (eV)
0
5
10
15
20
*10⁶
neutron energy (eV)

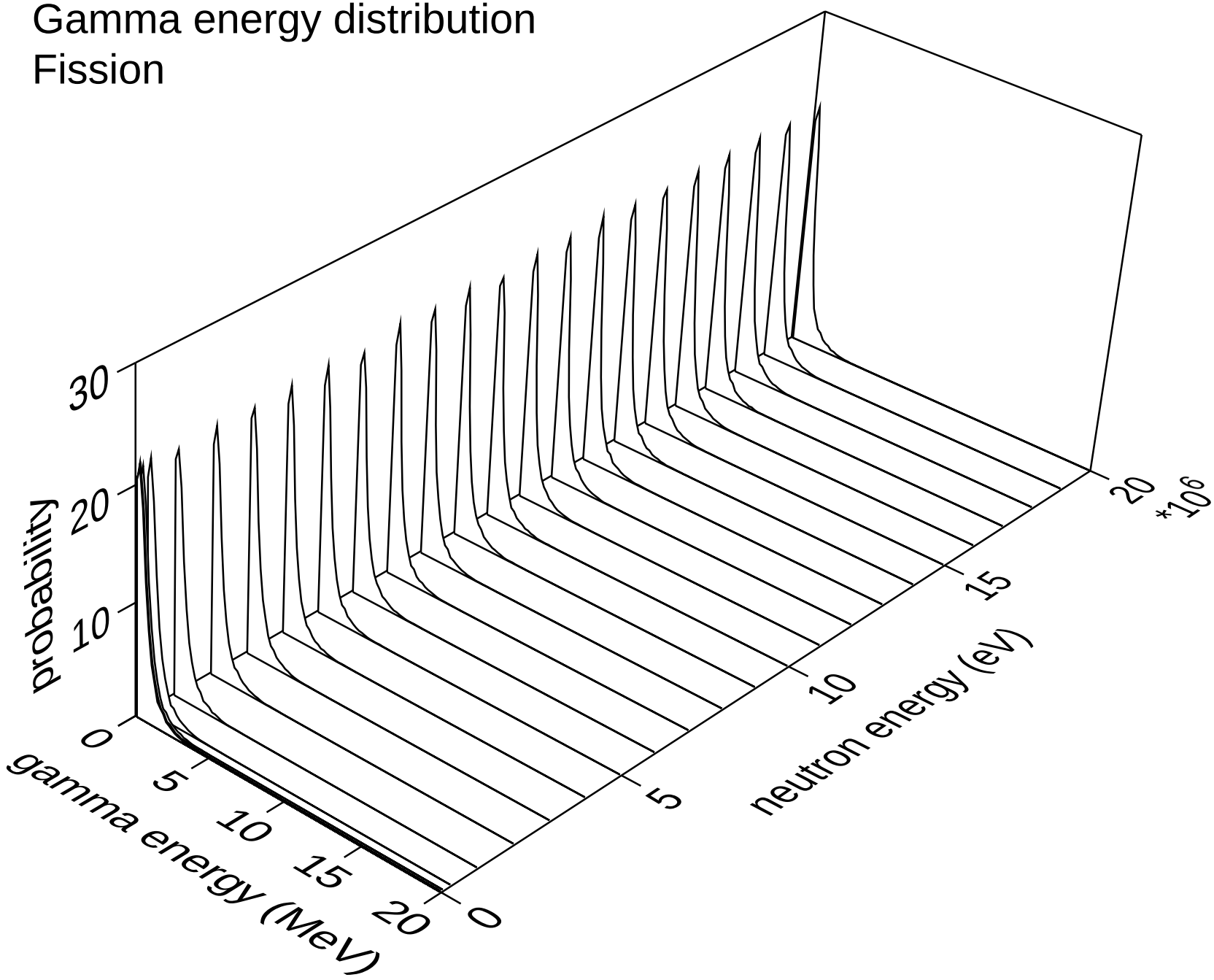

Energy distribution (CMS)
Fission-third chance
probability
10^{1}
10^{-1}
0
5
10
15
20
*10^6
energy (eV)
0
5
10
15
20
*10^6
neutron energy (eV)

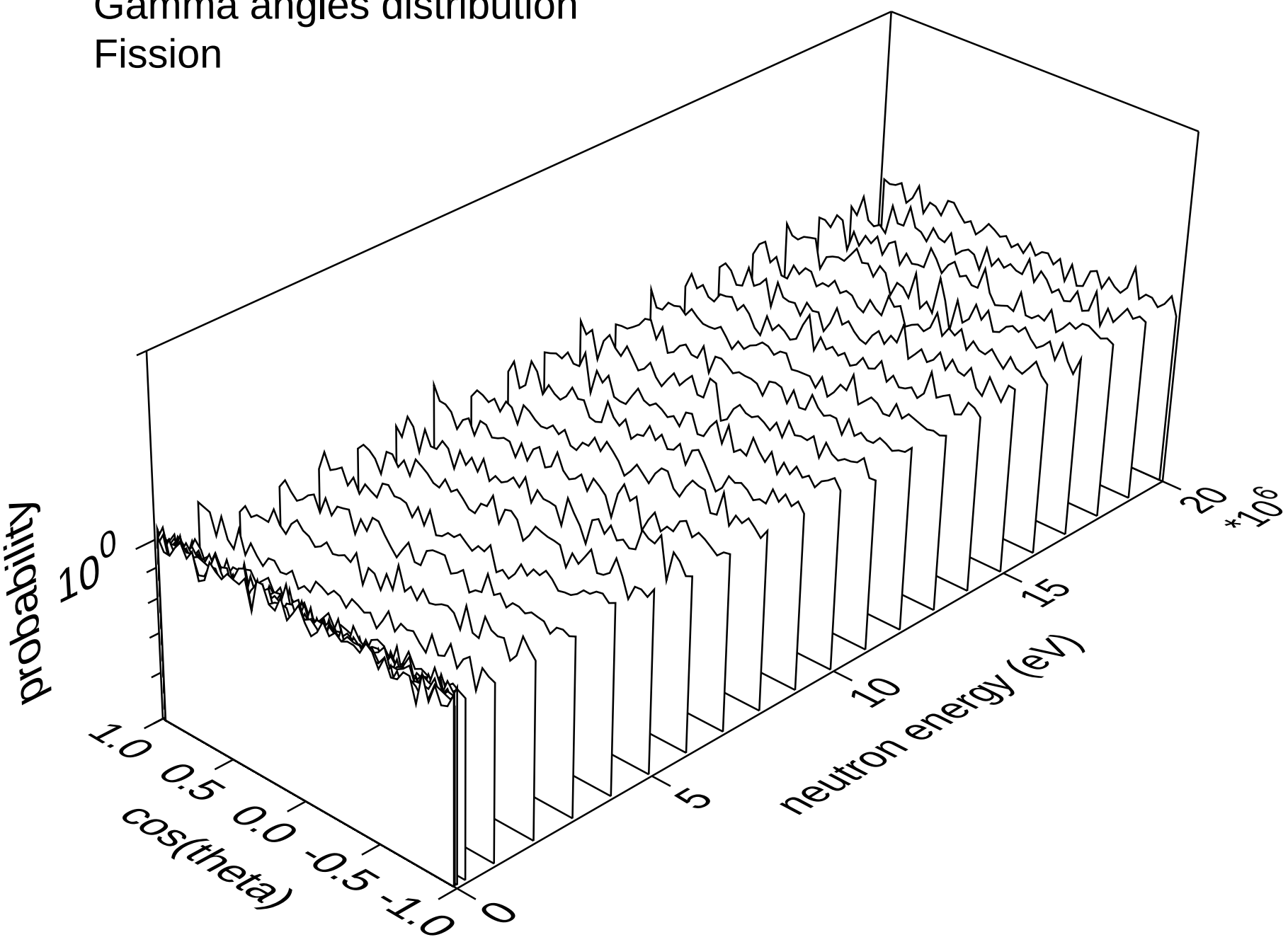

Gamma energy distribution
Capture
probability
60
40
20
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
5
10
15
20
*10^6


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

Gamma multiplicities distribution
Capture




Gamma energy distribution
Fission
probability
30
20
10
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
5
10
15
20
*10^6


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

Gamma multiplicities distribution
Fission