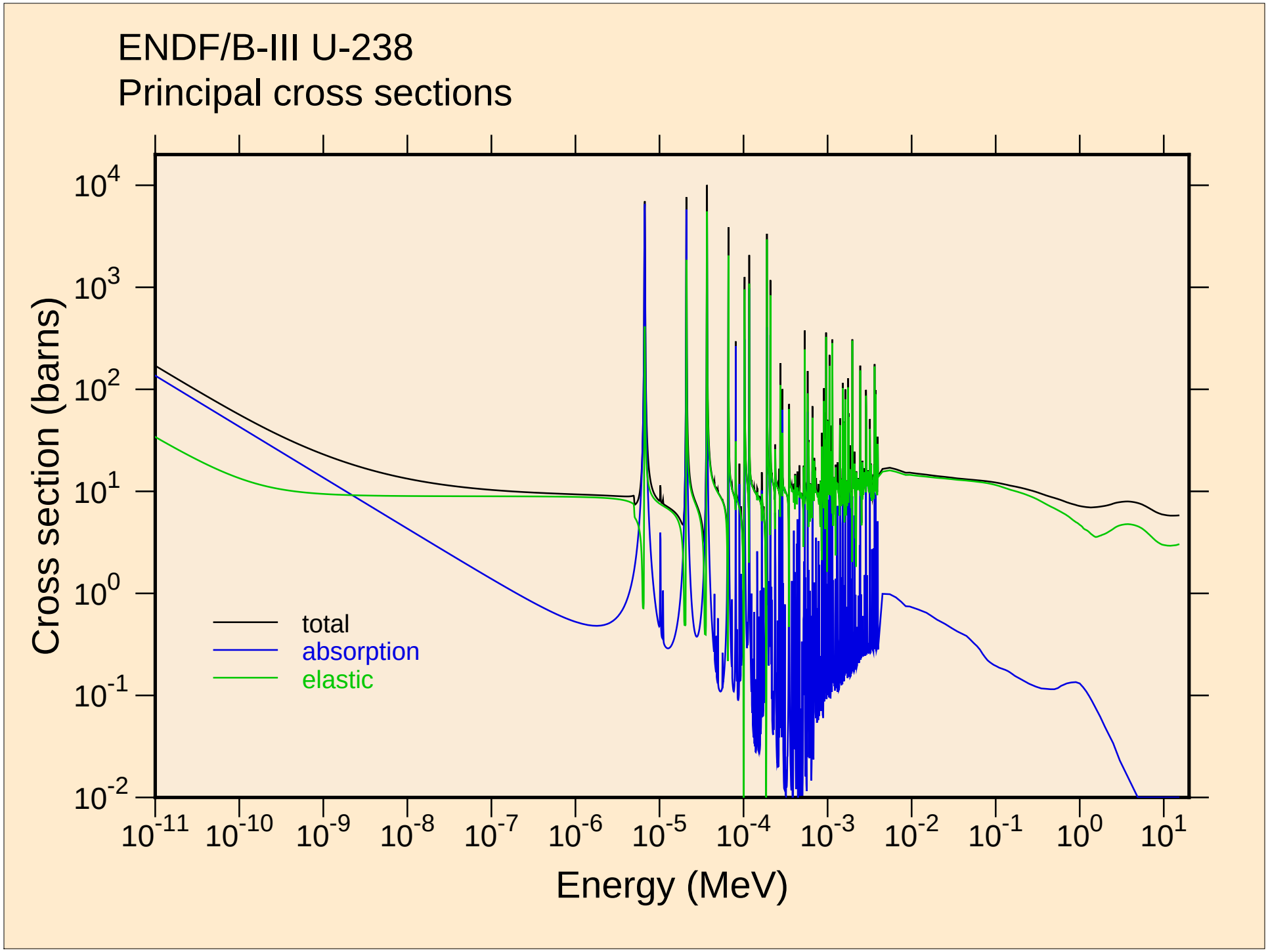
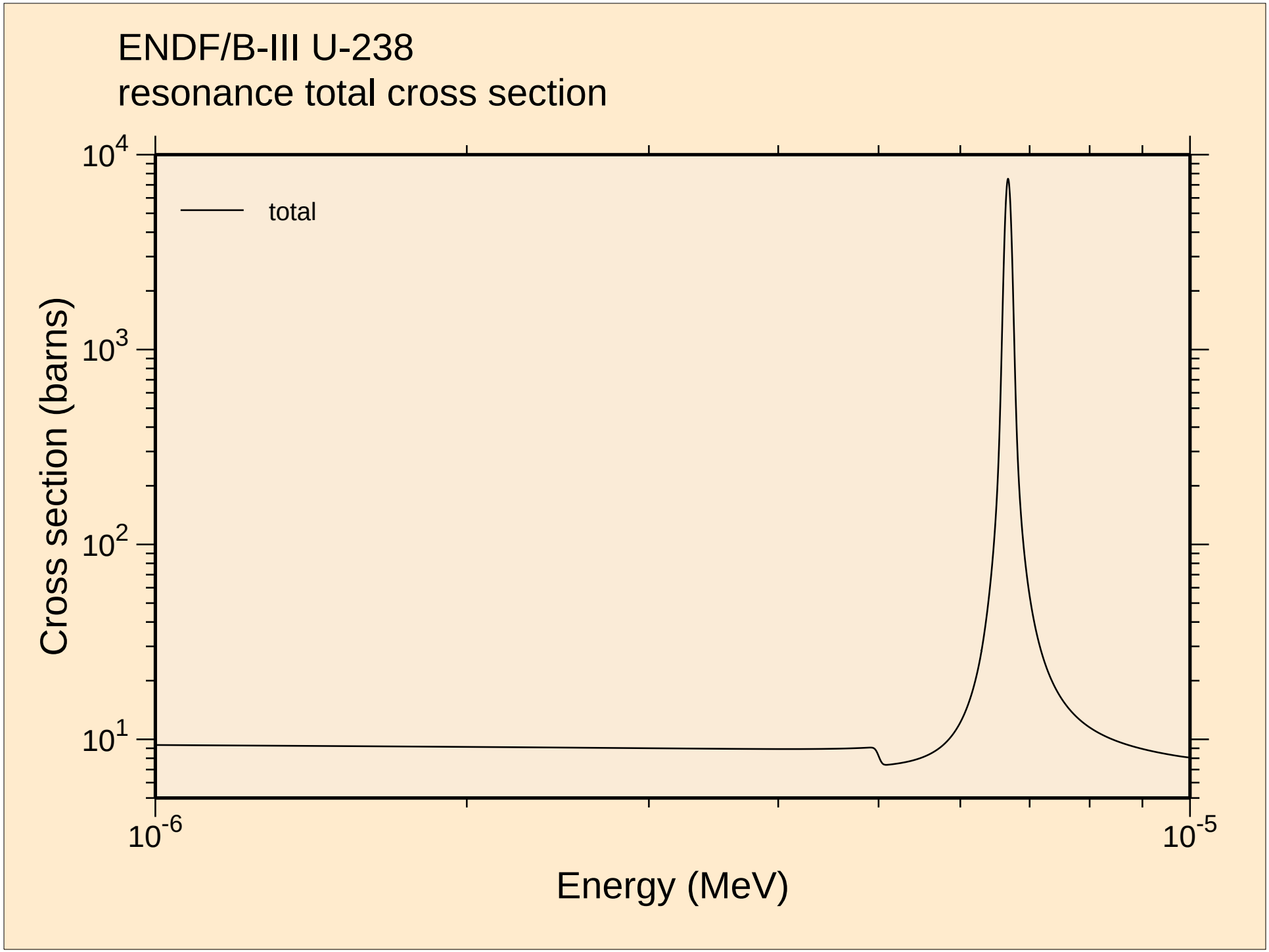
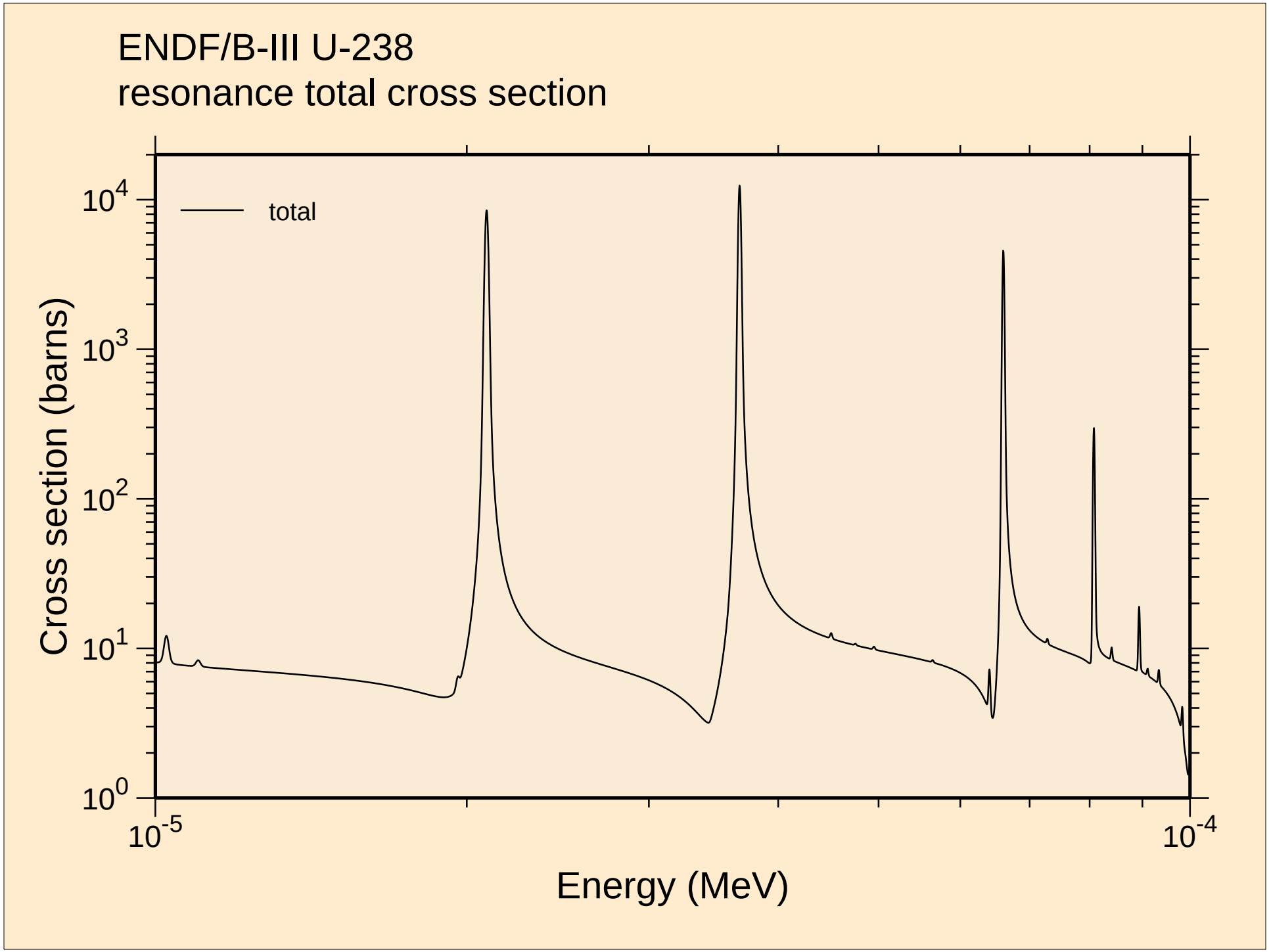
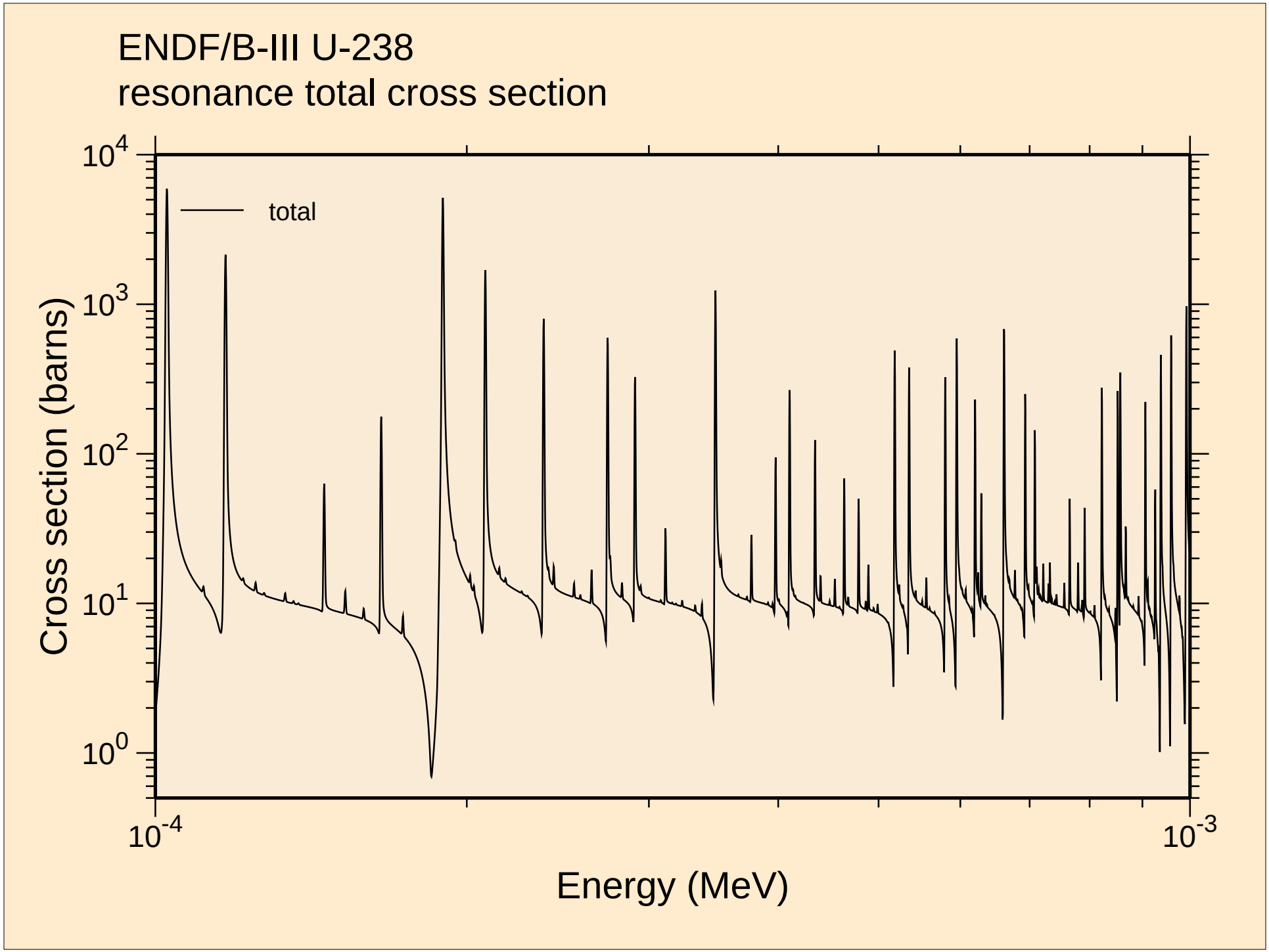
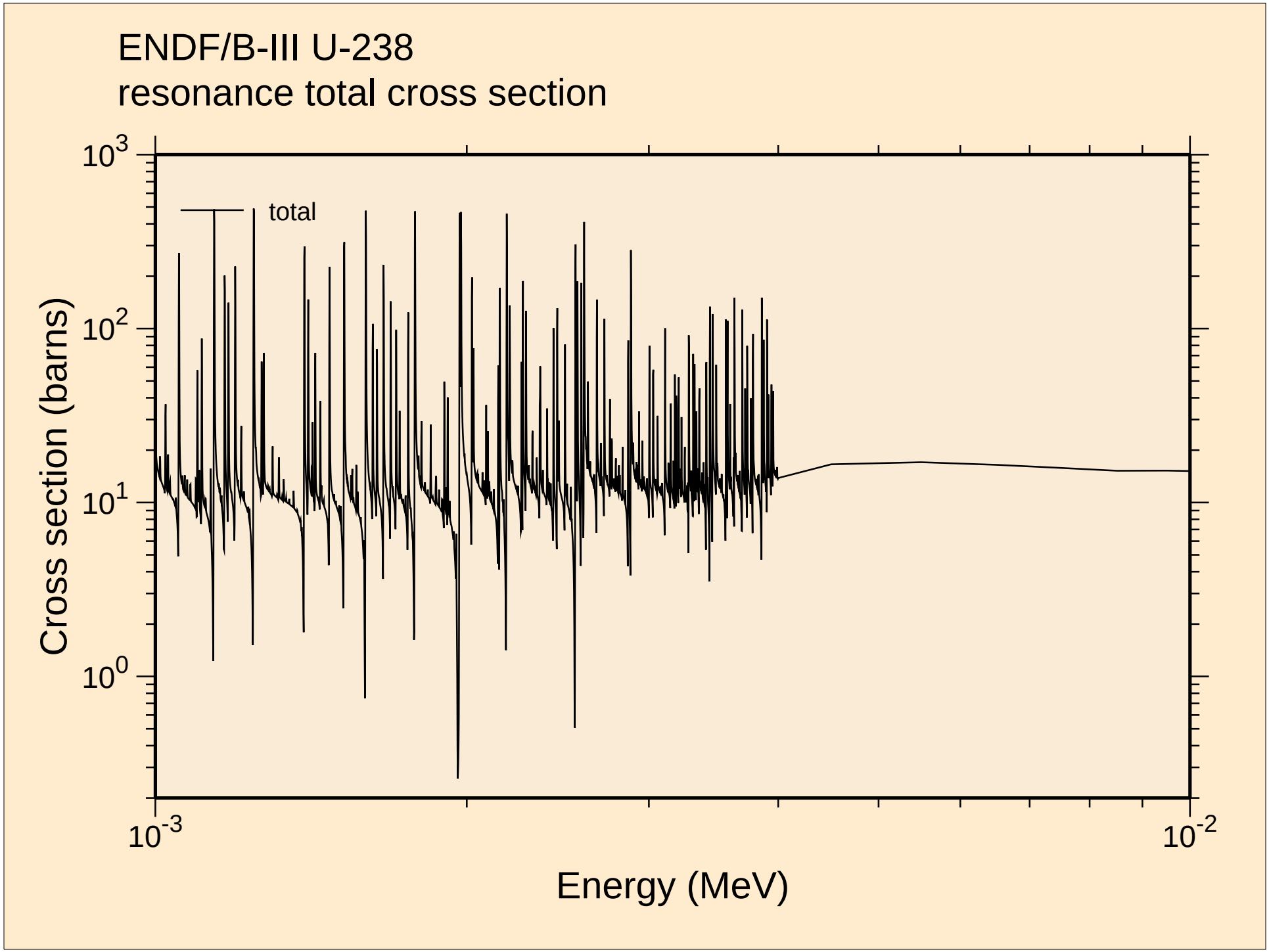
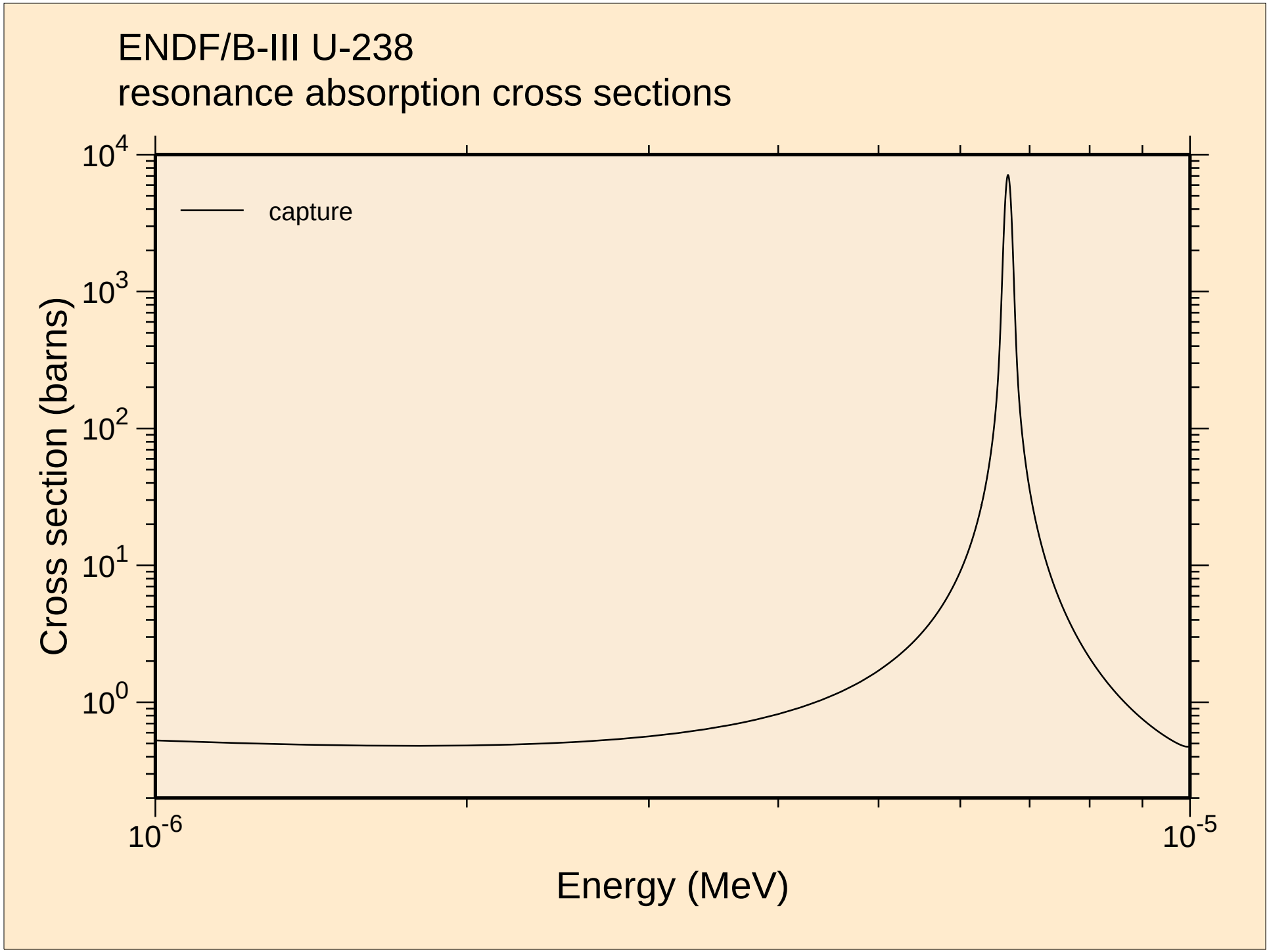

ENDF/B-III U-238
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
10^4
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-11
10^-10
10^-9
10^-8
10^-7
10^-6
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1

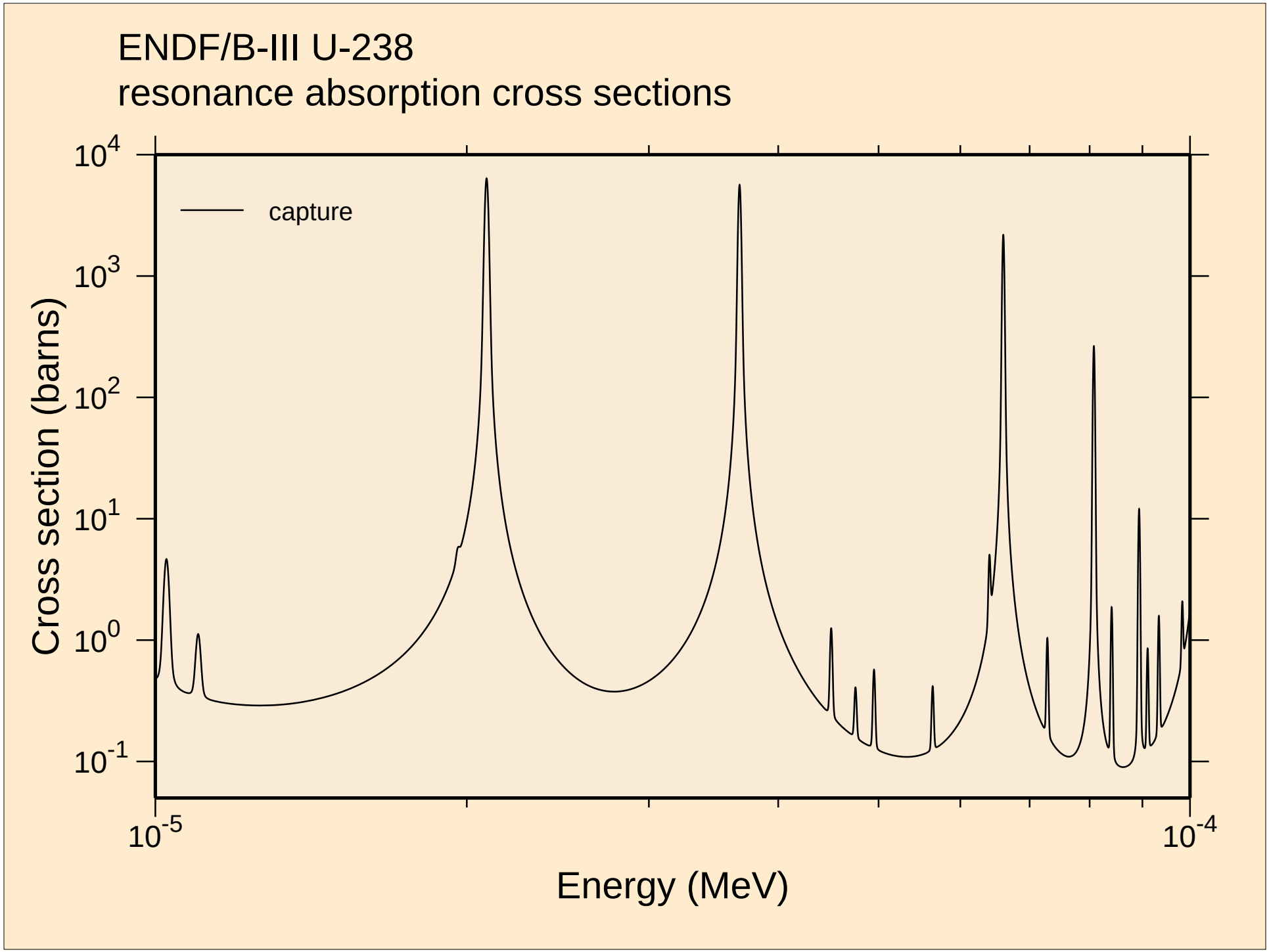

ENDF/B-III U-238
resonance total cross section
total
Cross section (barns)
10^4
10^3
10^2
10^1
10^{-6}
10^{-5}
Energy (MeV)

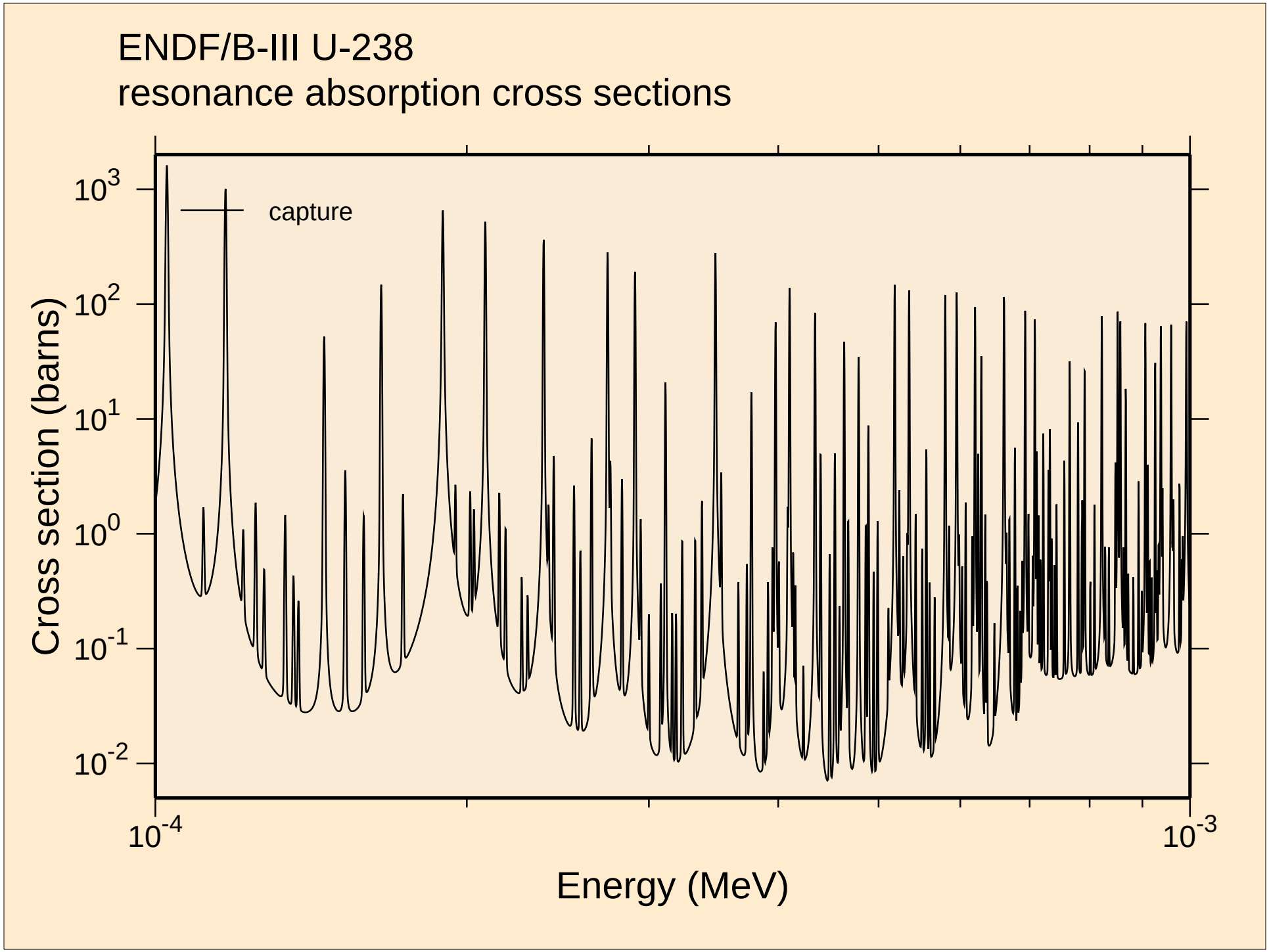

ENDF/B-III U-238
resonance total cross section
total
Cross section (barns)
10^4
10^3
10^2
10^1
10^0
10^{-5}
10^{-4}
Energy (MeV)

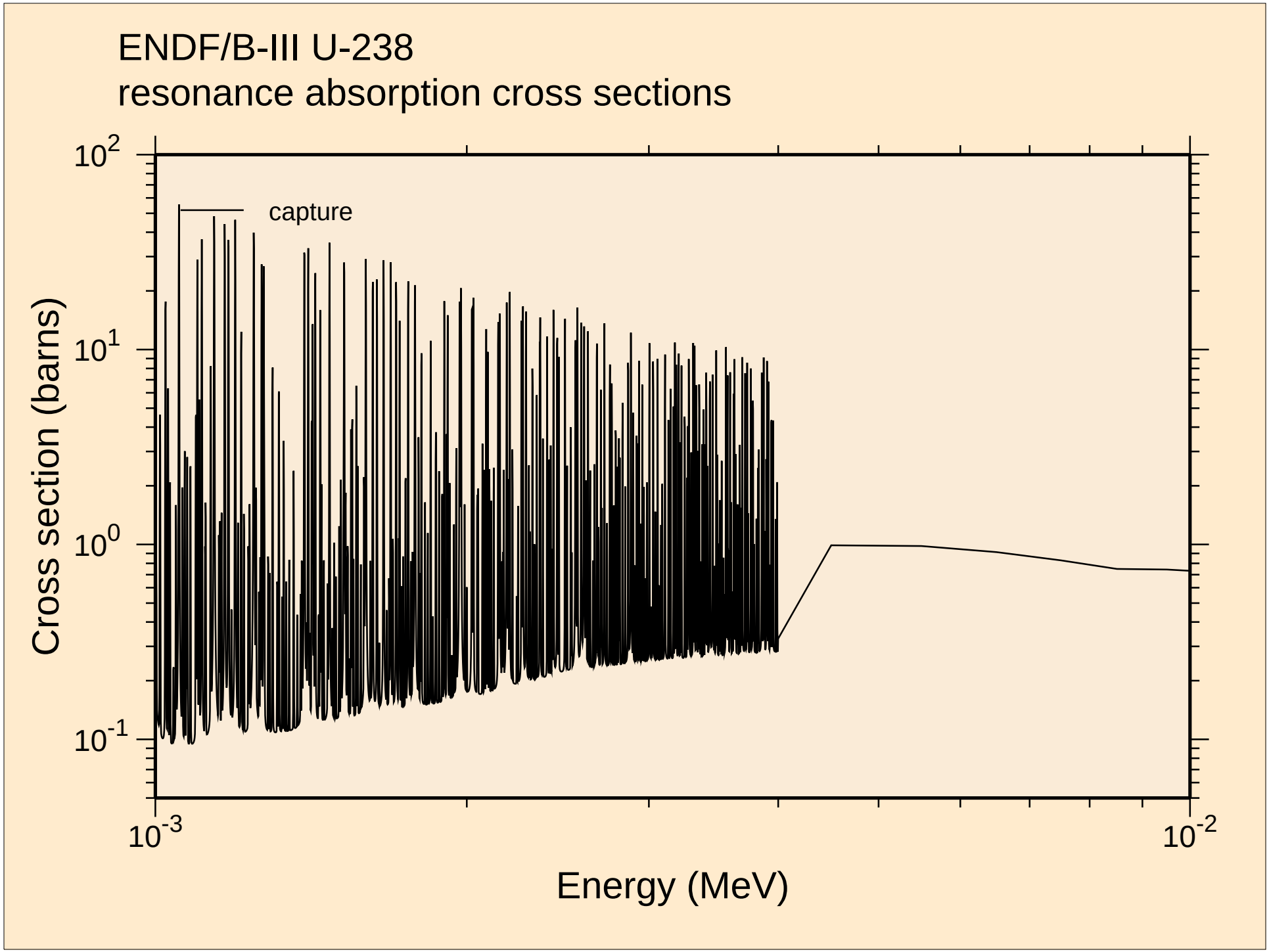

ENDF/B-III U-238
resonance total cross section
total
Cross section (barns)
10^4
10^3
10^2
10^1
10^0
10^{-4}
10^{-3}
Energy (MeV)

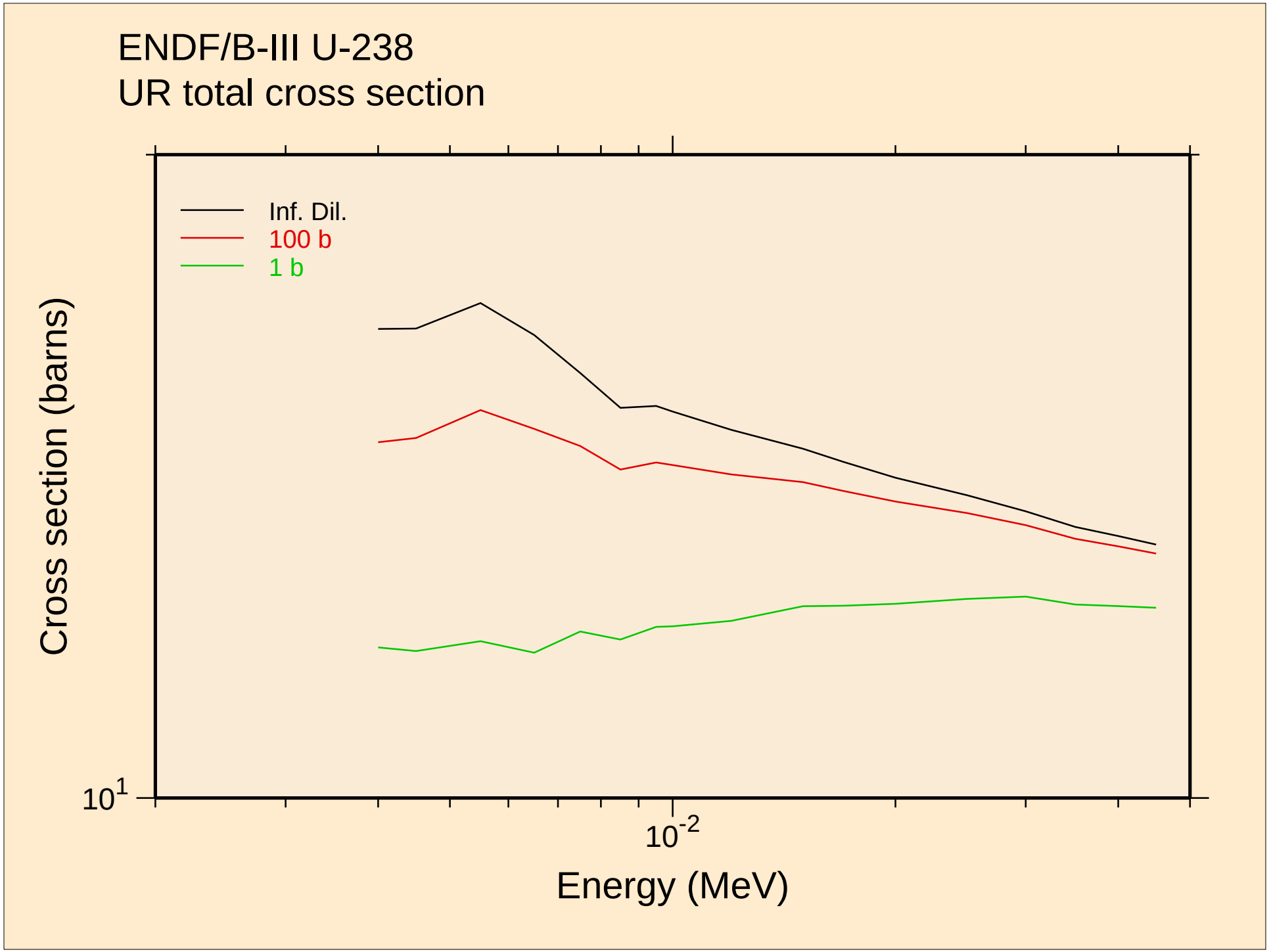

ENDF/B-III U-238
resonance total cross section
total
Cross section (barns)
10^3
10^2
10^1
10^0
10^{-3}
10^{-2}
Energy (MeV)

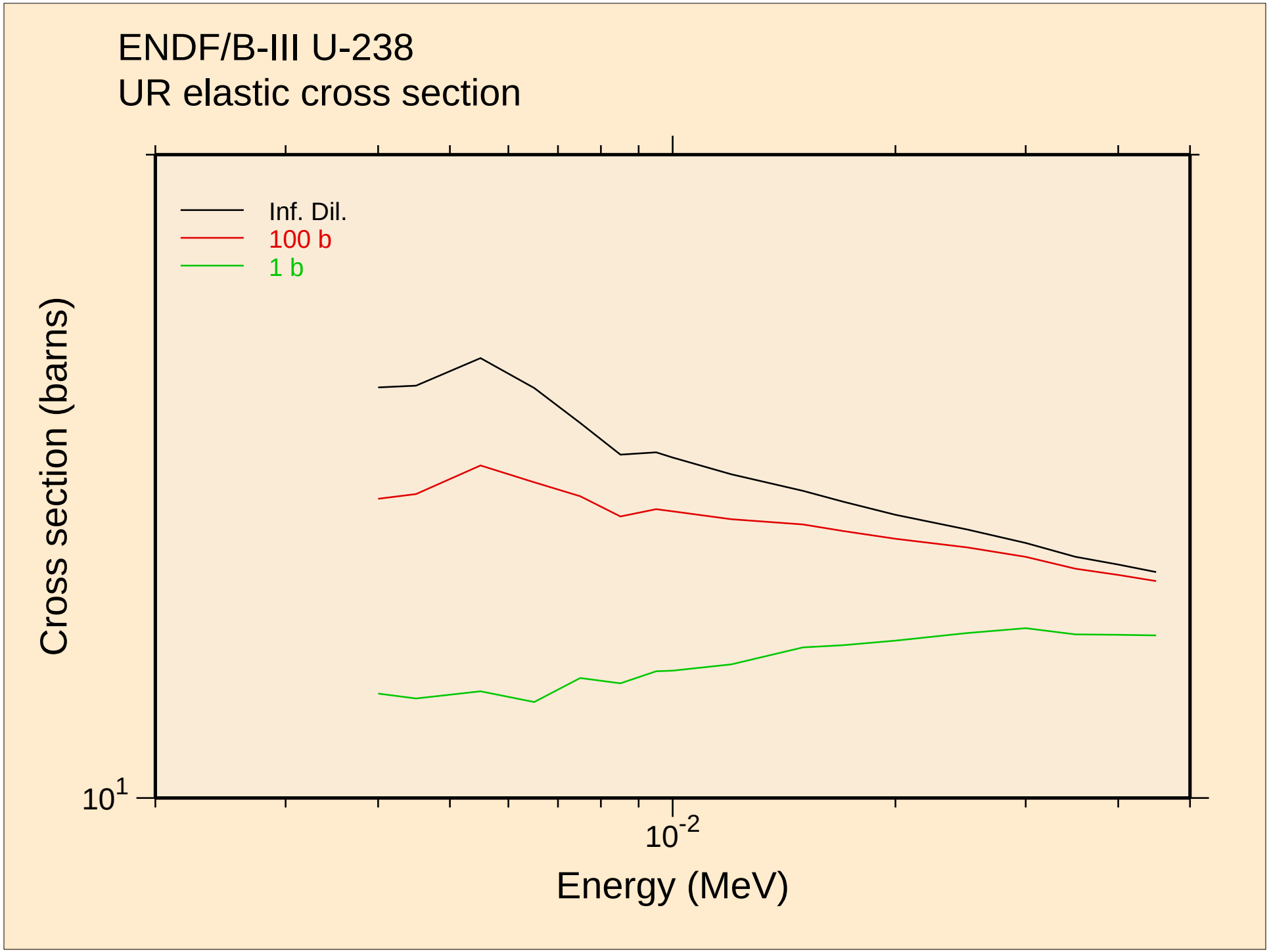

ENDF/B-III U-238
resonance absorption cross sections
capture
Cross section (barns)
10^4
10^3
10^2
10^1
10^0
10^{-6}
10^{-5}
Energy (MeV)

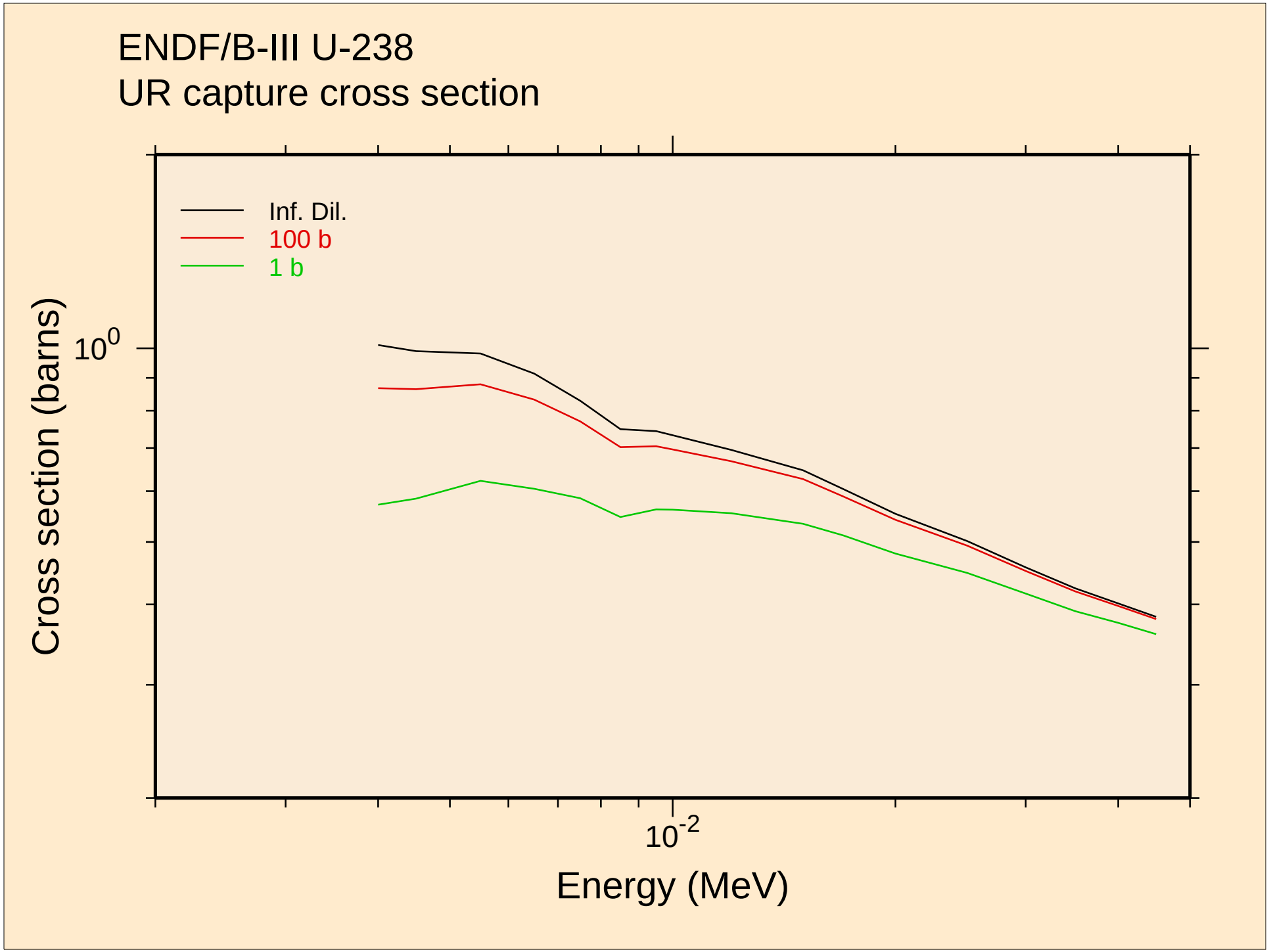

ENDF/B-III U-238
resonance absorption cross sections
capture
Cross section (barns)
10^{4}
10^{3}
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-5}
10^{-4}
Energy (MeV)

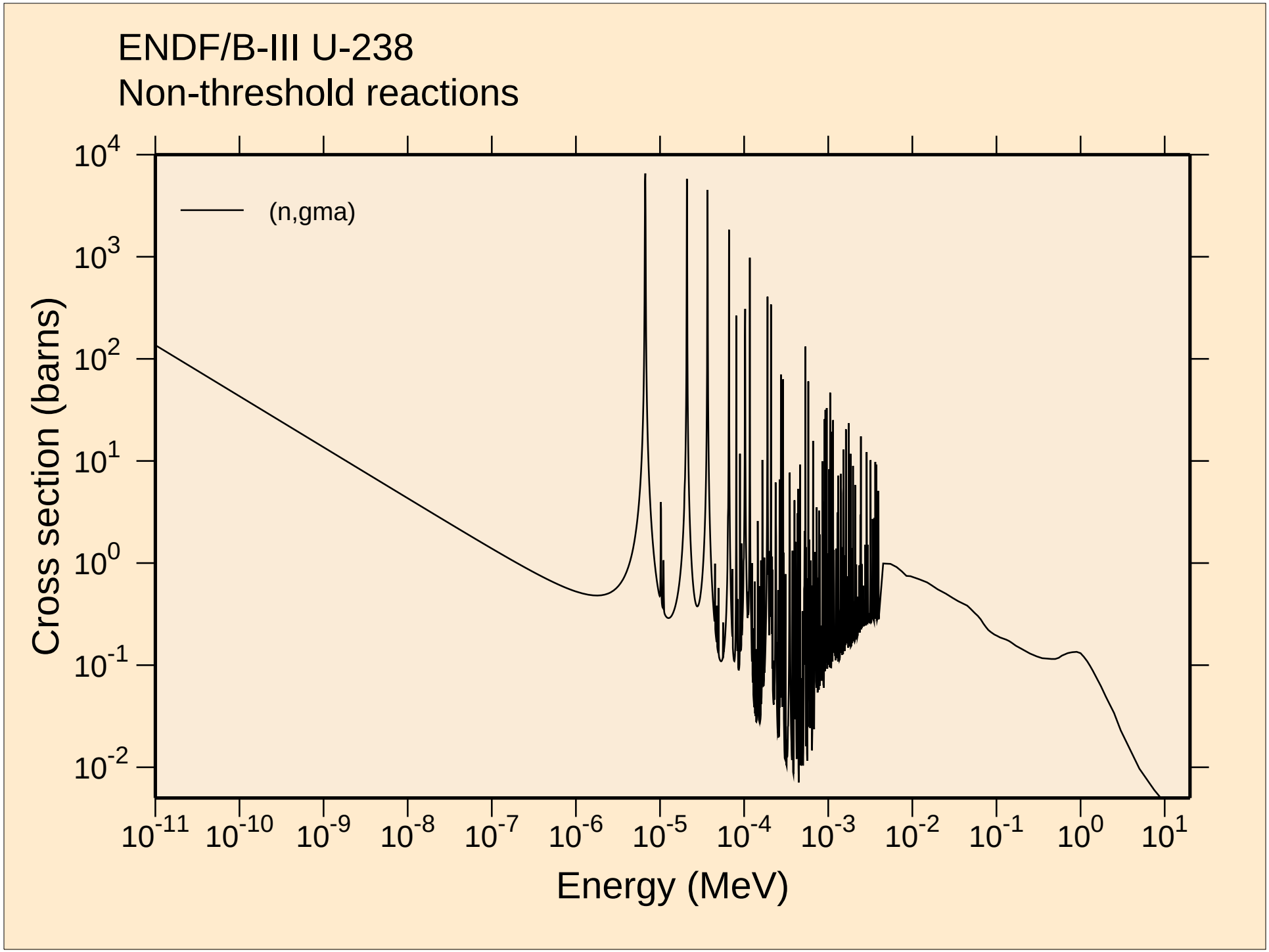

ENDF/B-III U-238
resonance absorption cross sections
capture
Cross section (barns)
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-4
10^-3
Energy (MeV)

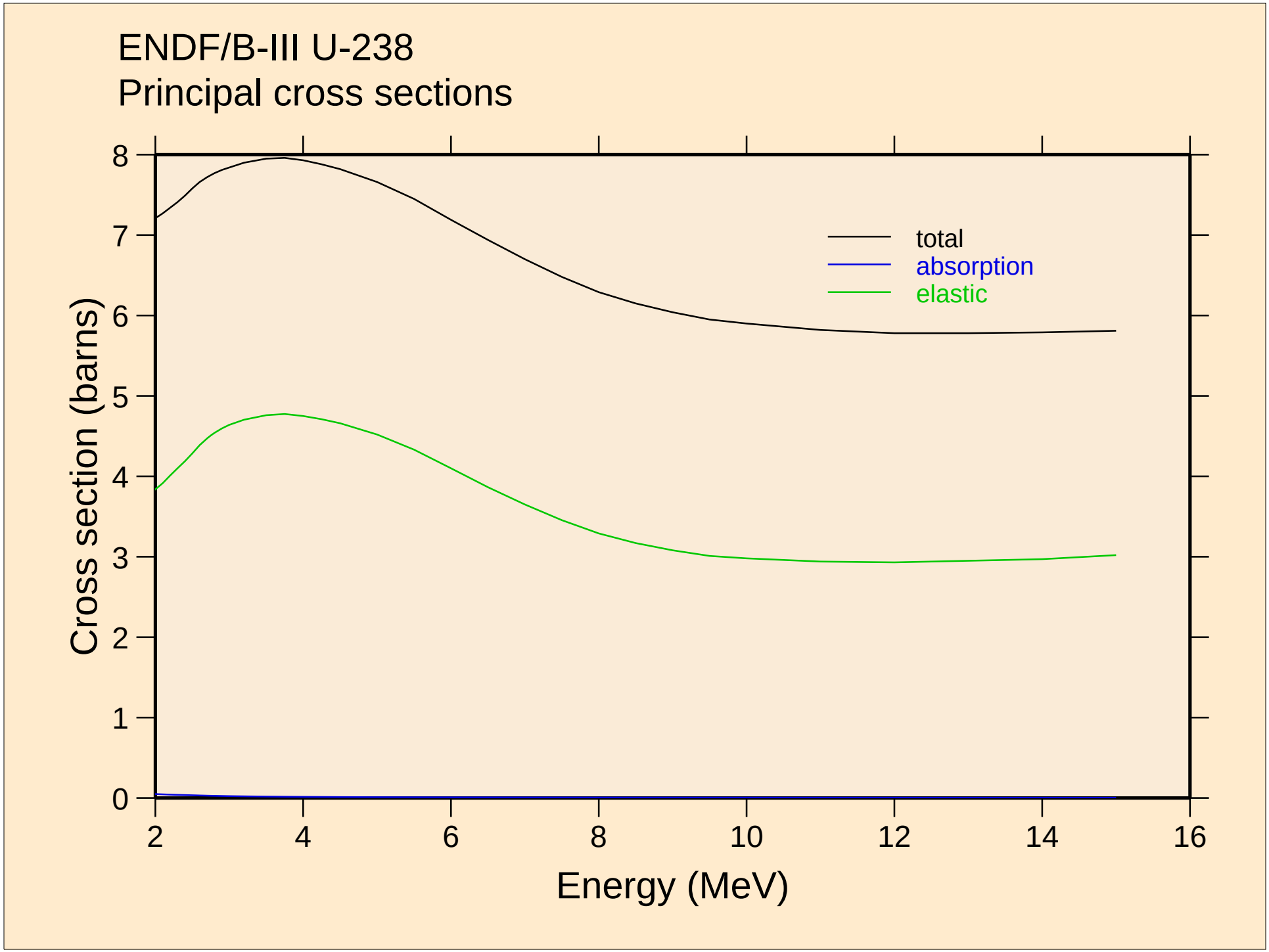

ENDF/B-III U-238
resonance absorption cross sections
capture
Cross section (barns)
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-3}
10^{-2}
Energy (MeV)

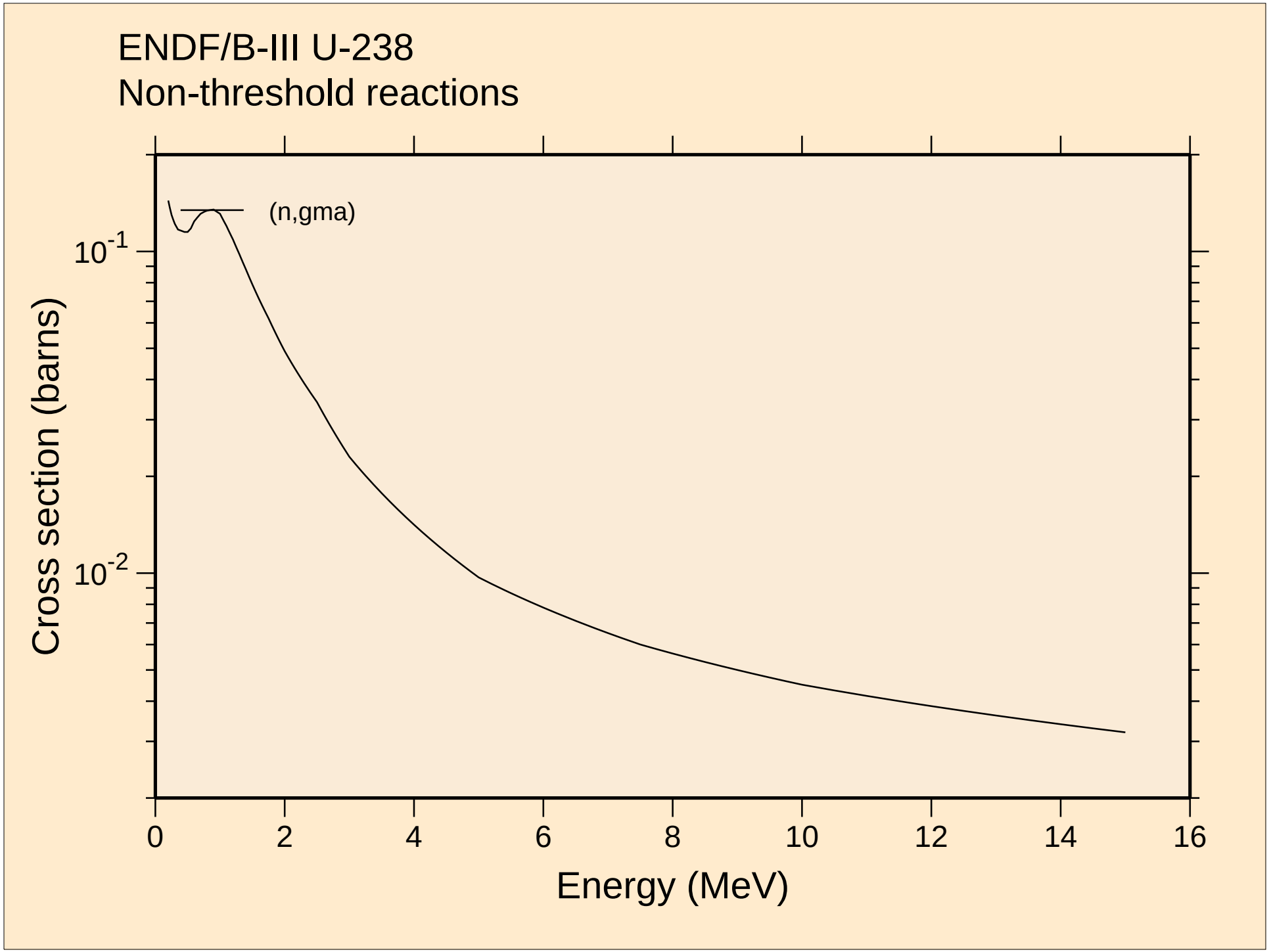

ENDF/B-III U-238
UR total cross section
Inf. Dil.
100 b
1 b
Cross section (barns)
10^{1}
10^{-2}
Energy (MeV)

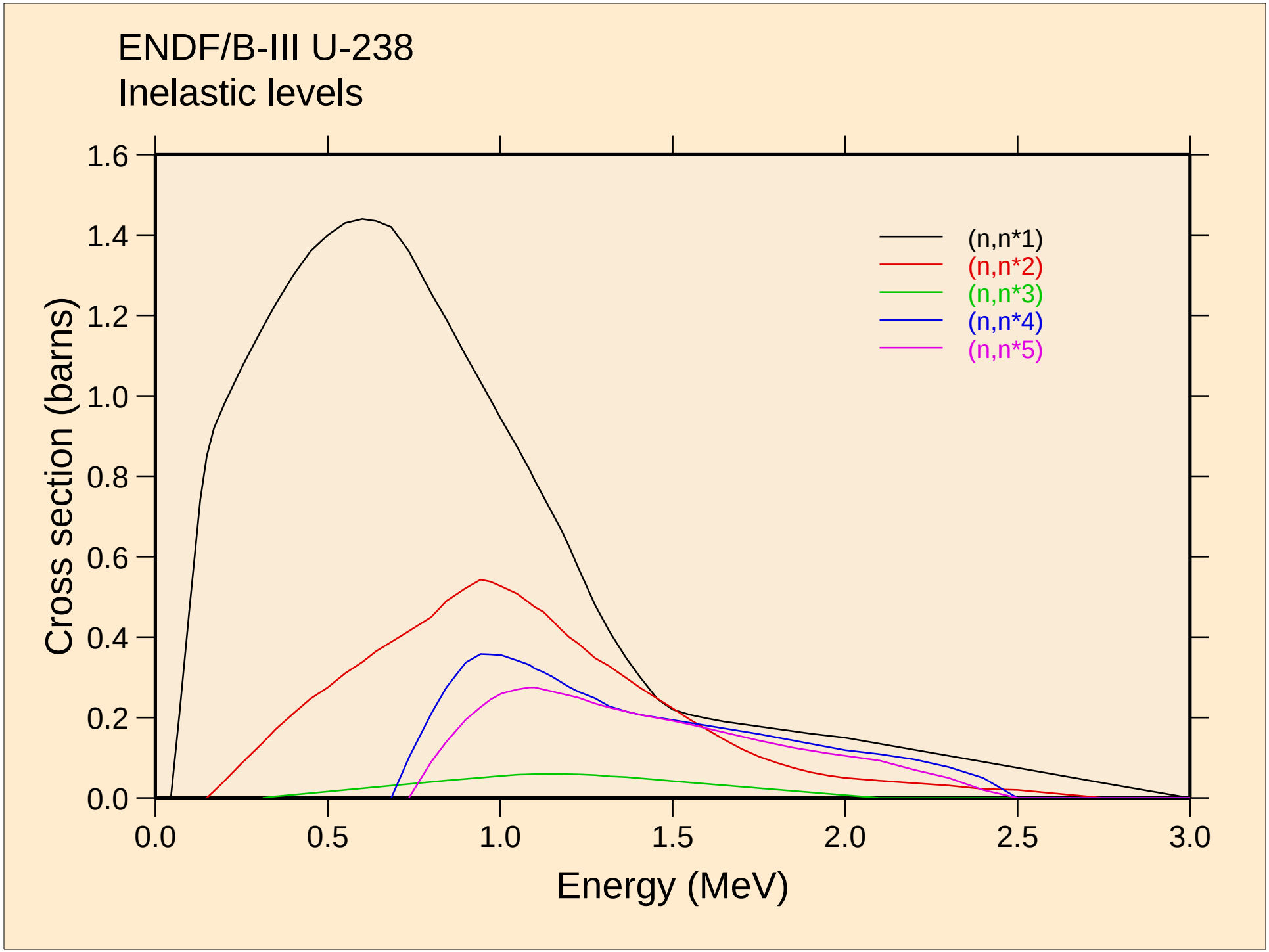

ENDF/B-III U-238
UR elastic cross section
Inf. Dil.
100 b
1 b
Cross section (barns)
10^{1}
10^{-2}
Energy (MeV)

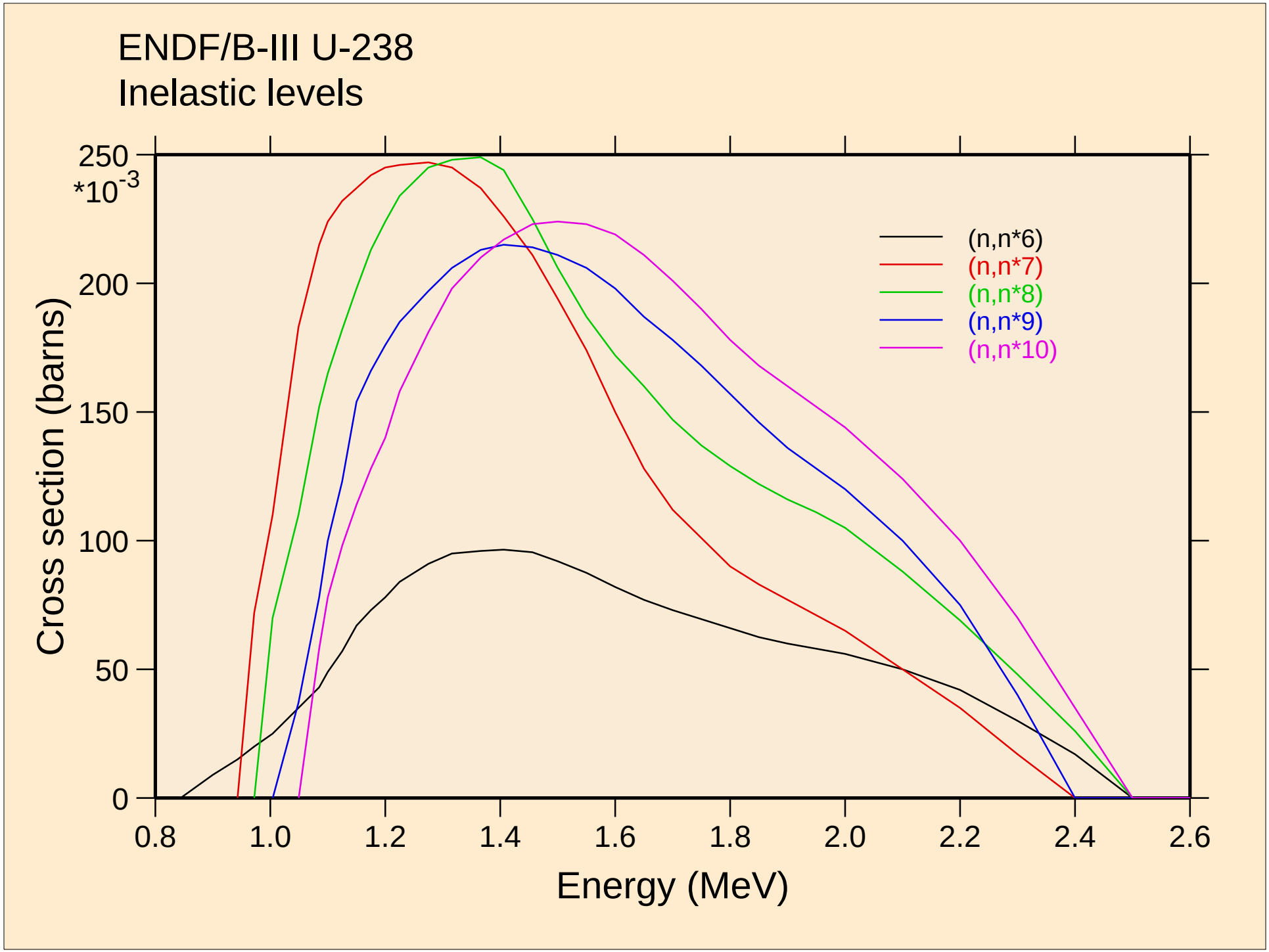

ENDF/B-III U-238
UR capture cross section
Inf. Dil.
100 b
1 b
Cross section (barns)
10^0
10^-2
Energy (MeV)

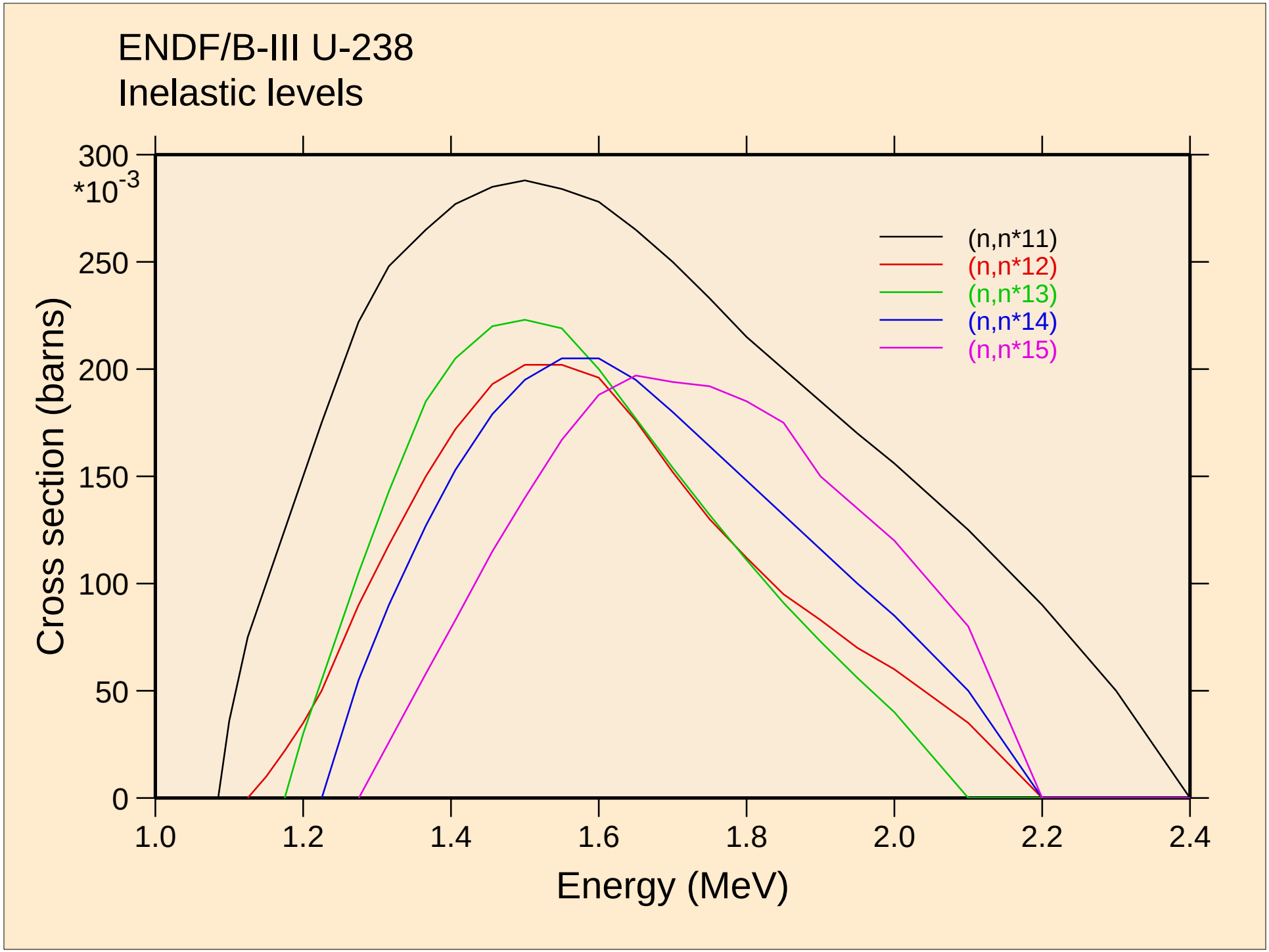

ENDF/B-III U-238
Non-threshold reactions
(n,gma)
Cross section (barns)
10^{4}
10^{3}
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-11} 10^{-10} 10^{-9} 10^{-8} 10^{-7} 10^{-6} 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1}
Energy (MeV)

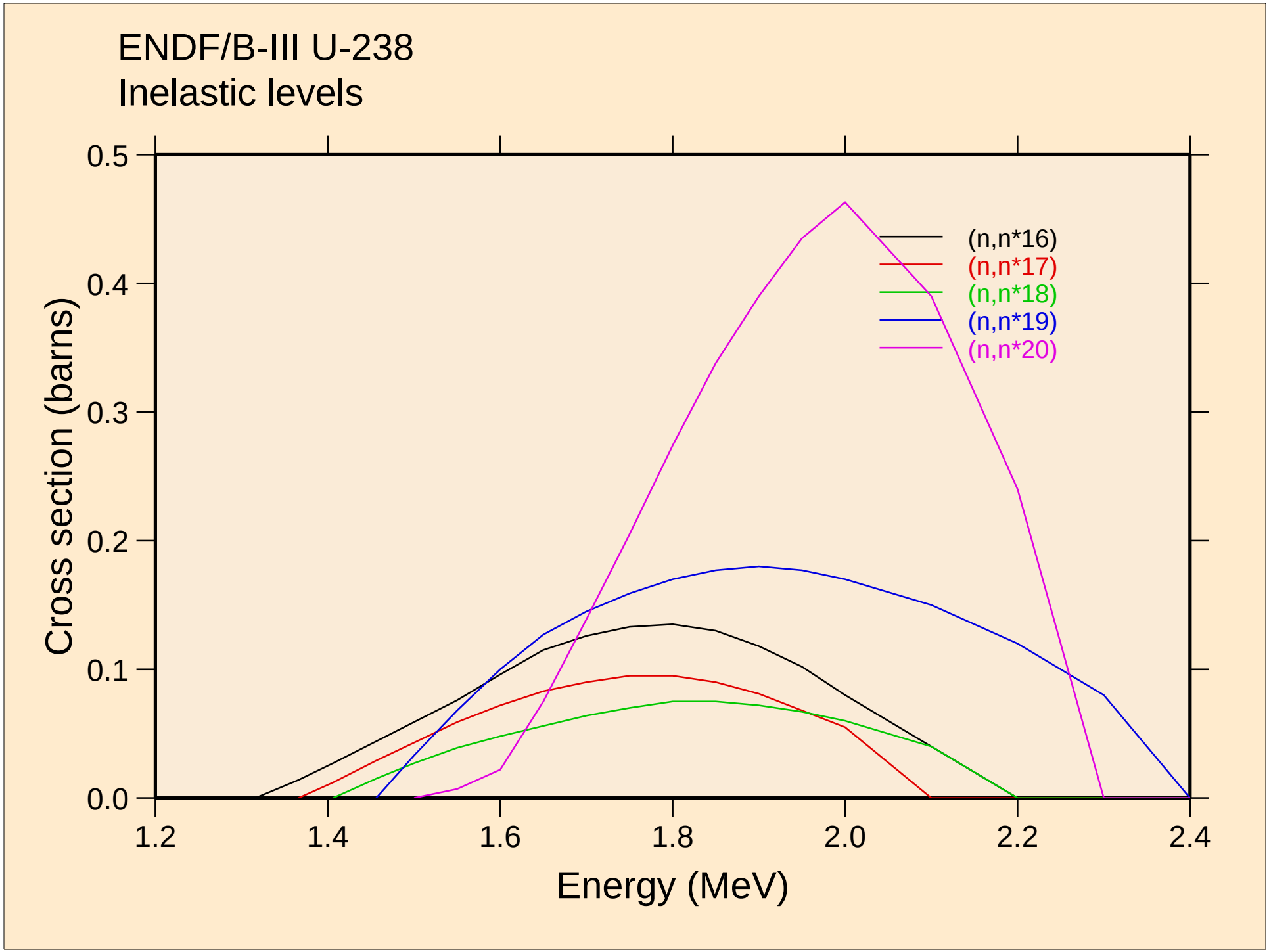

ENDF/B-III U-238
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
0
1
2
3
4
5
6
7
8
2
4
6
8
10
12
14
16

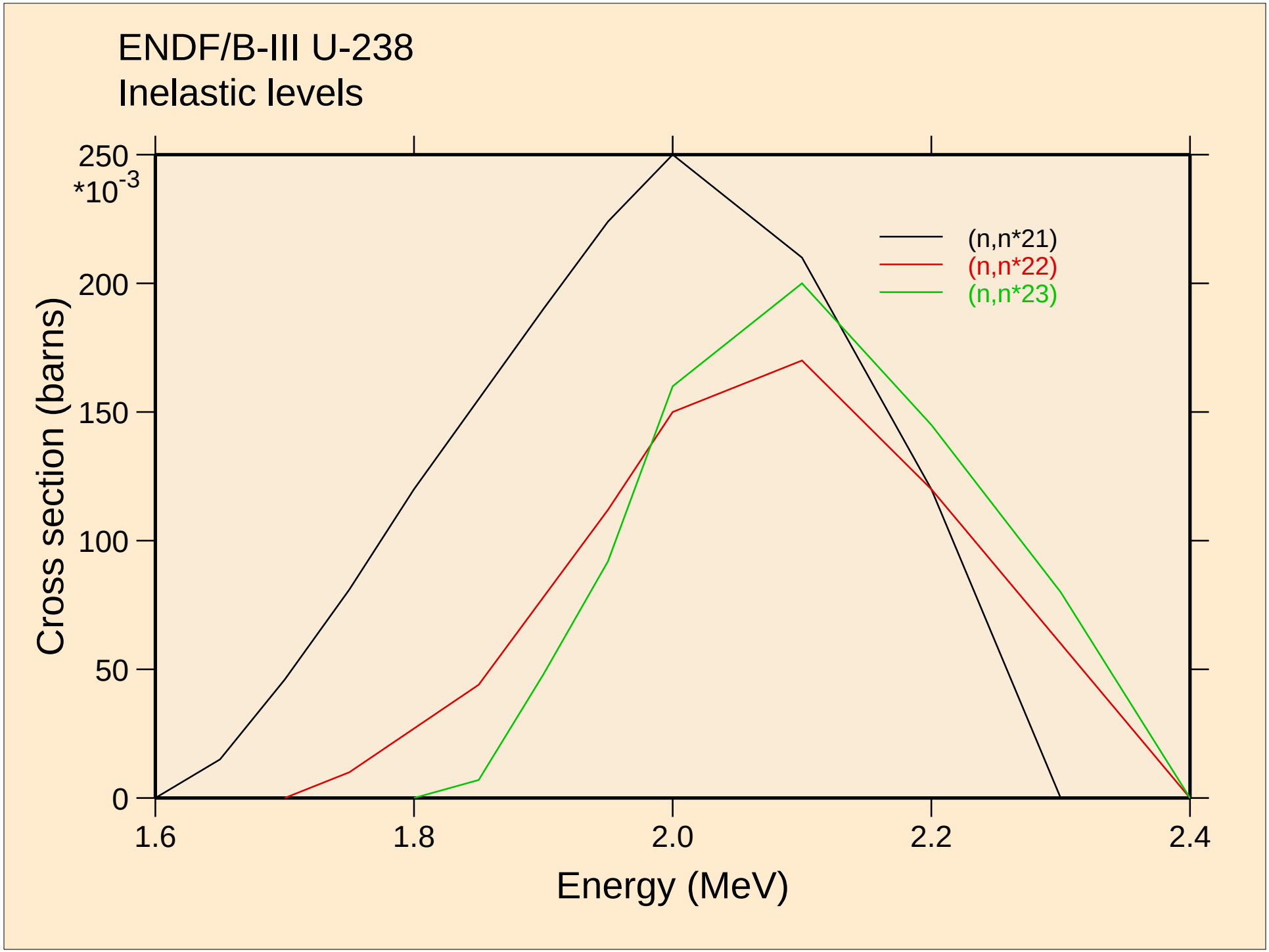

ENDF/B-III U-238
Non-threshold reactions
(n,gma)
Cross section (barns)
10-1
10-2
0
2
4
6
8
10
12
14
16
Energy (MeV)

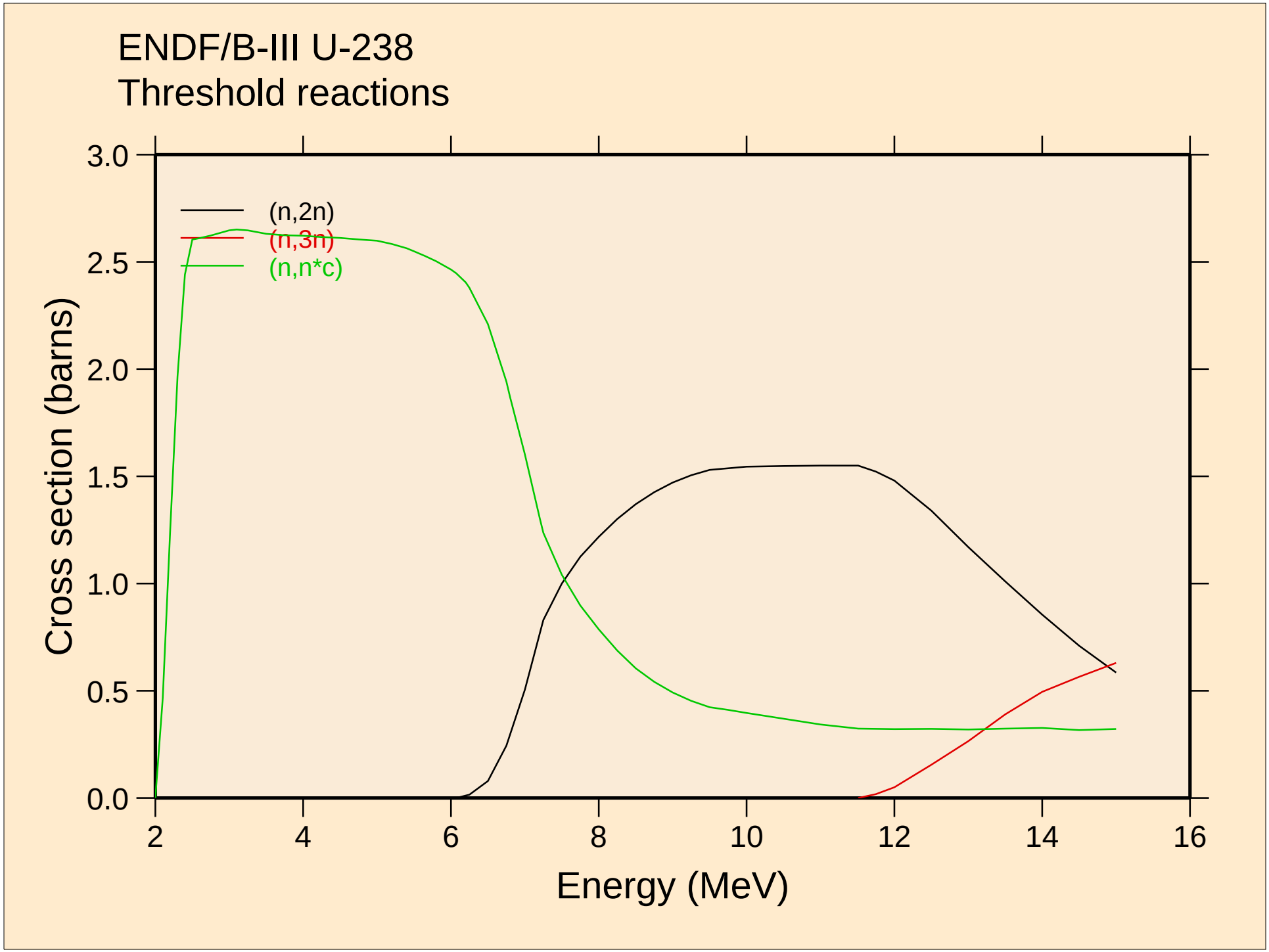

ENDF/B-III U-238
Inelastic levels
Cross section (barns)
Energy (MeV)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0.0
0.5
1.0
1.5
2.0
2.5
3.0
(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)

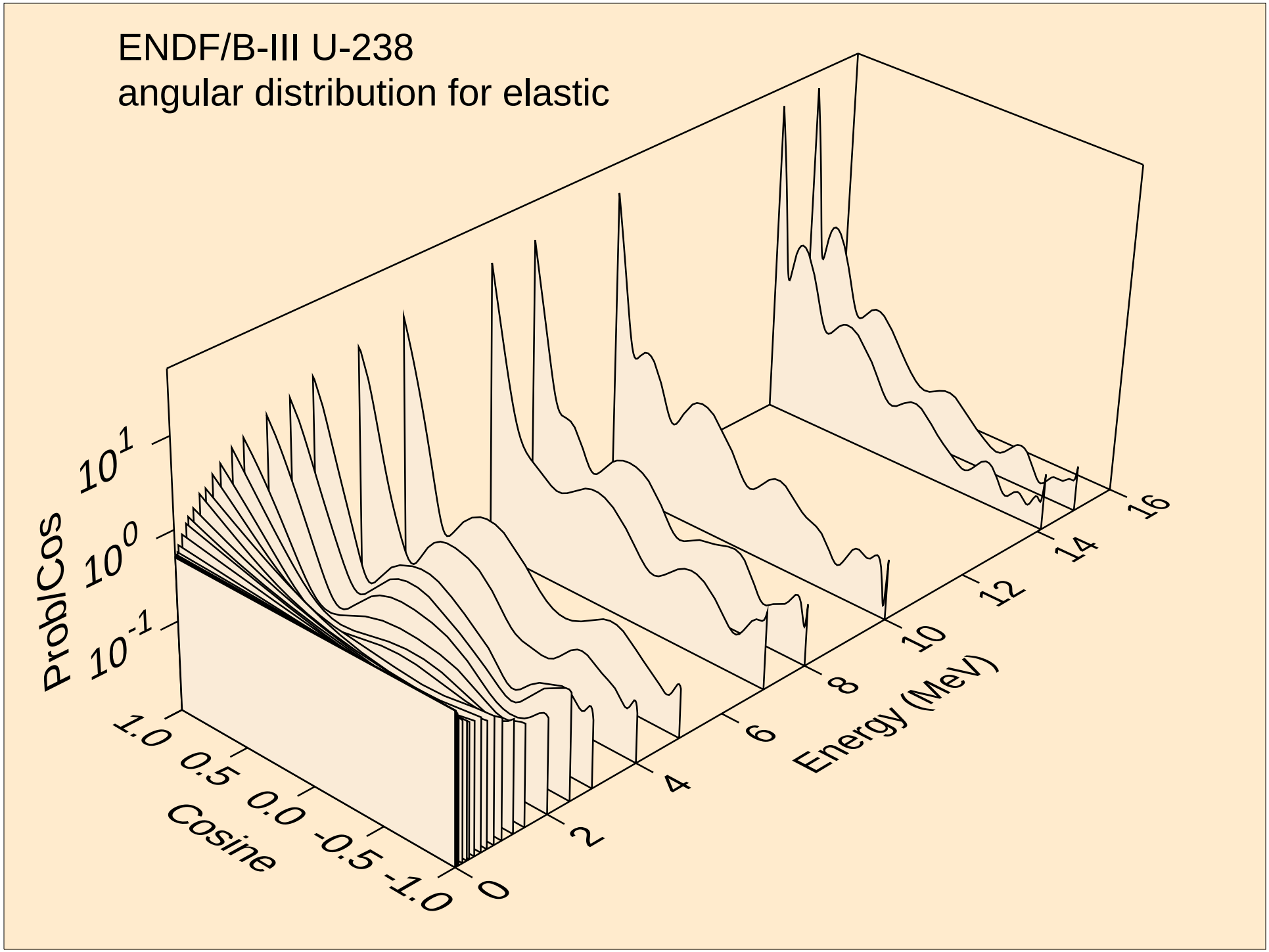

ENDF/B-III U-238
Inelastic levels
250
*10-3
200
150
100
50
0
Cross section (barns)
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
Energy (MeV)
(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)
(n,n*10)

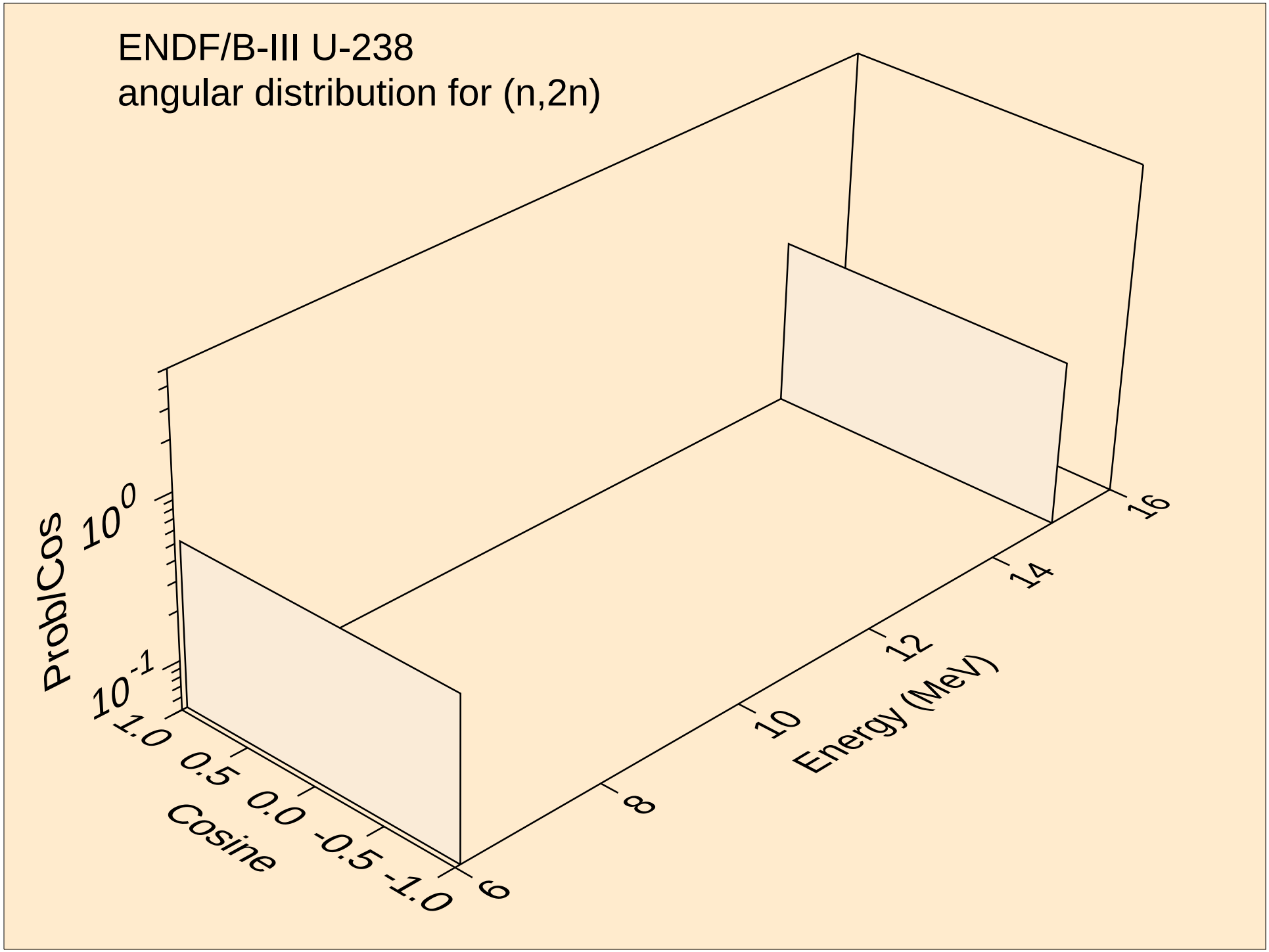

ENDF/B-III U-238
Inelastic levels
300
*10-3
250
200
150
100
50
0
Cross section (barns)
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
Energy (MeV)
(n,n*11)
(n,n*12)
(n,n*13)
(n,n*14)
(n,n*15)

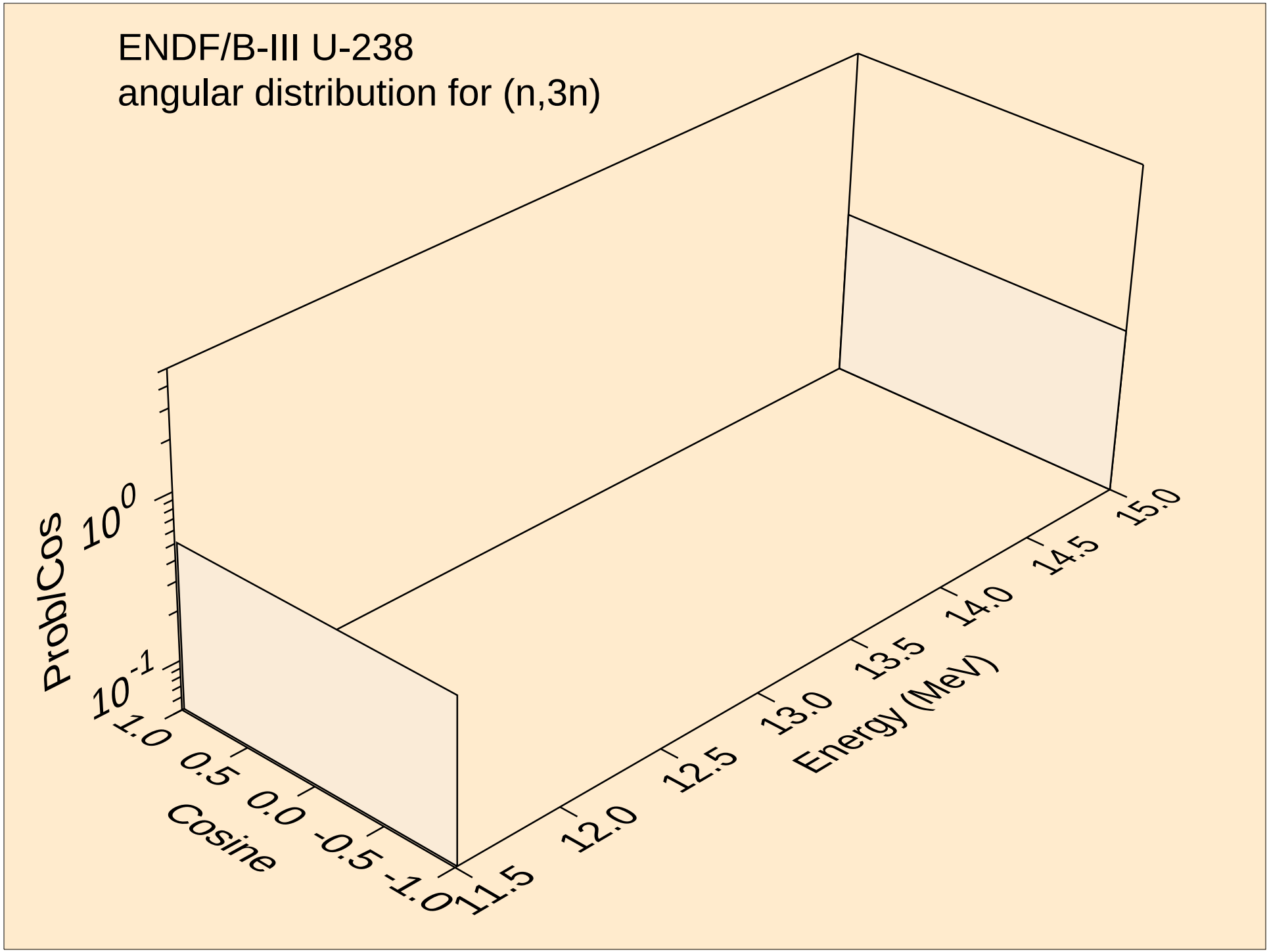

ENDF/B-III U-238
Inelastic levels
Cross section (barns)
0.0
0.1
0.2
0.3
0.4
0.5
1.2
1.4
1.6
1.8
2.0
2.2
2.4
Energy (MeV)
(n,n*16)
(n,n*17)
(n,n*18)
(n,n*19)
(n,n*20)

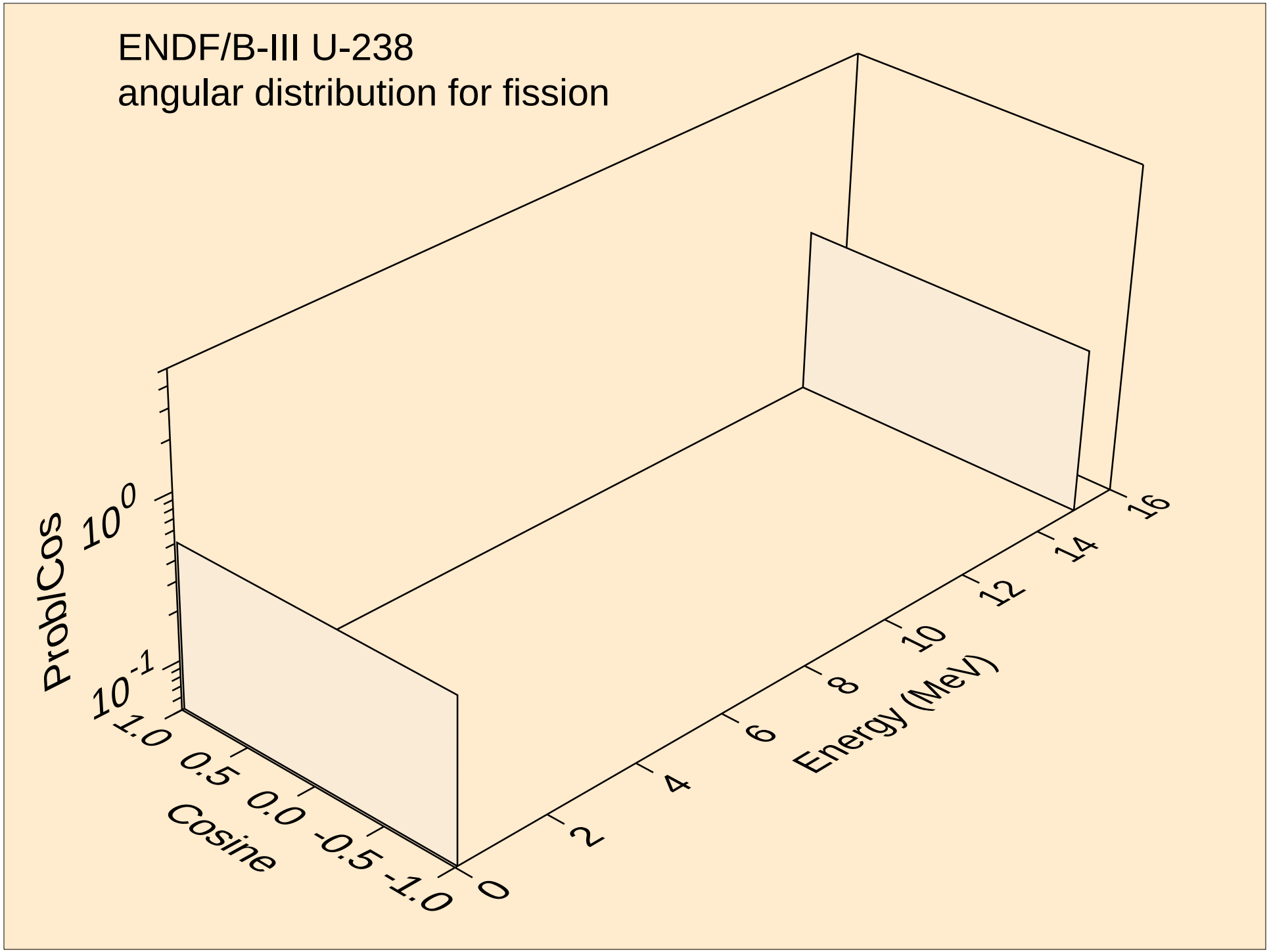

ENDF/B-III U-238
Inelastic levels
250
*10-3
200
150
100
50
0
Cross section (barns)
1.6
1.8
2.0
2.2
2.4
Energy (MeV)
(n,n*21)
(n,n*22)
(n,n*23)

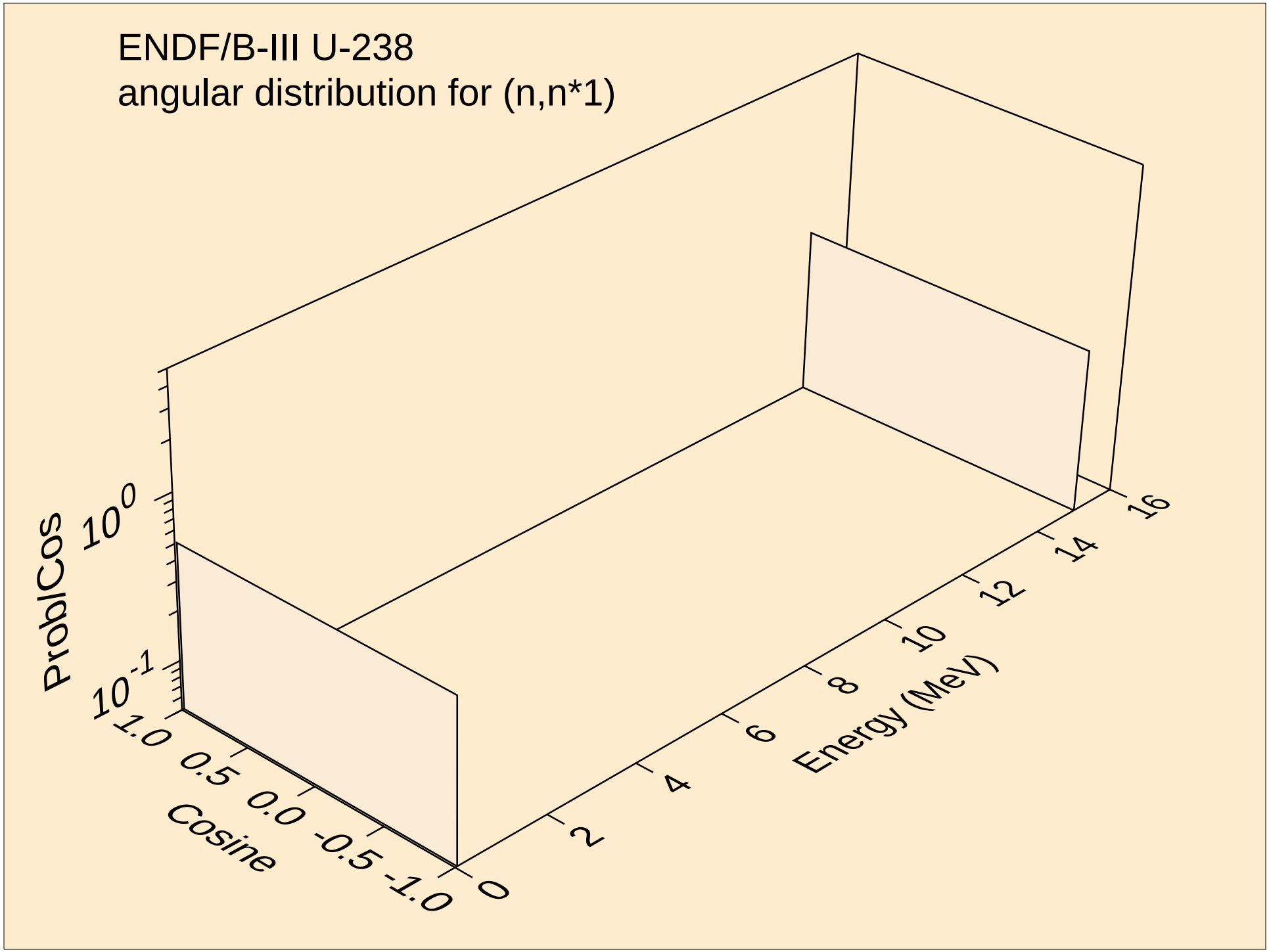

ENDF/B-III U-238
Threshold reactions
(n,2n)
(n,3n)
(n,n*c)
Cross section (barns)
Energy (MeV)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
2
4
6
8
10
12
14
16

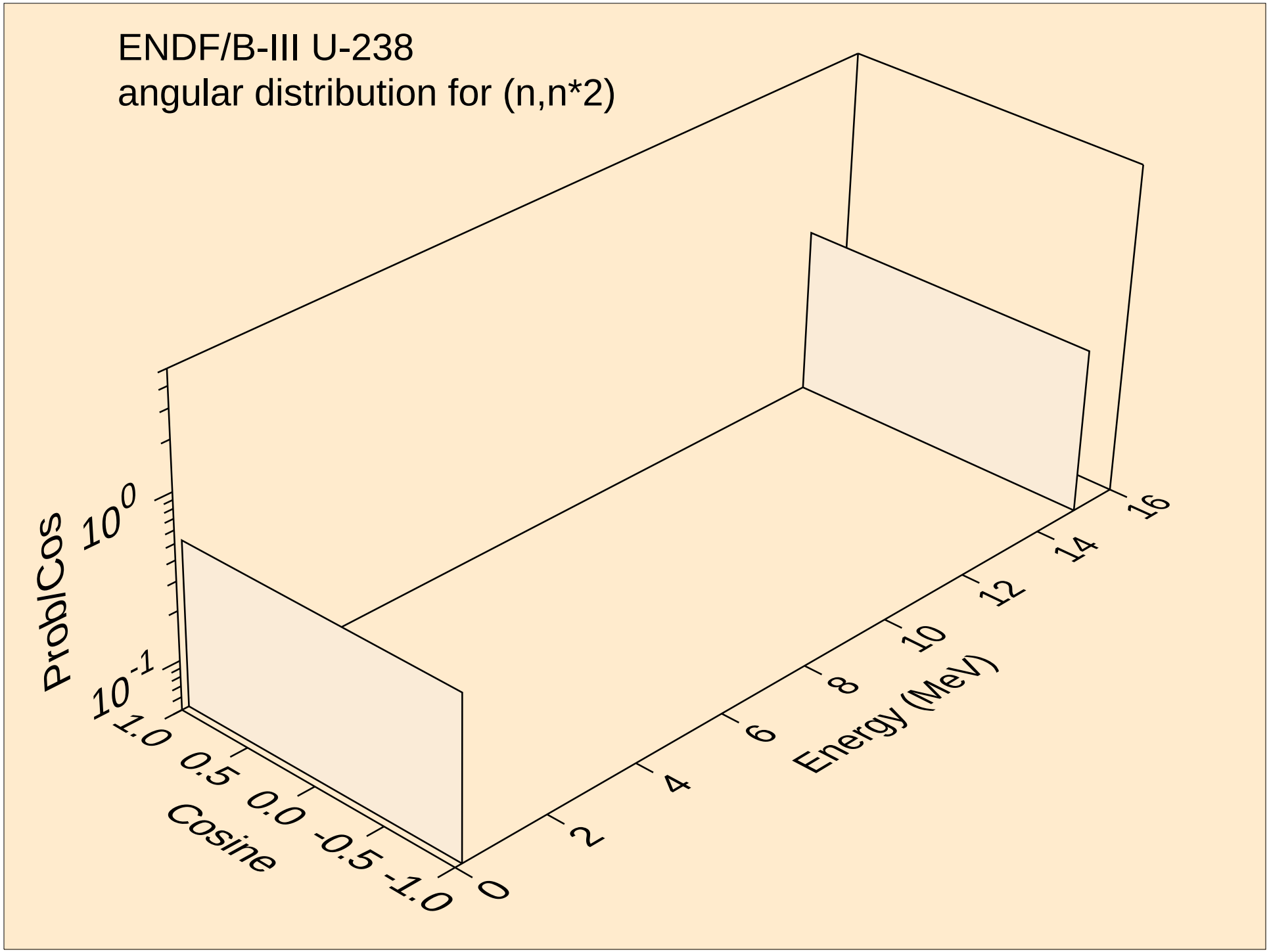

ENDF/B-III U-238
angular distribution for elastic
ProbICos
10^{1}
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)

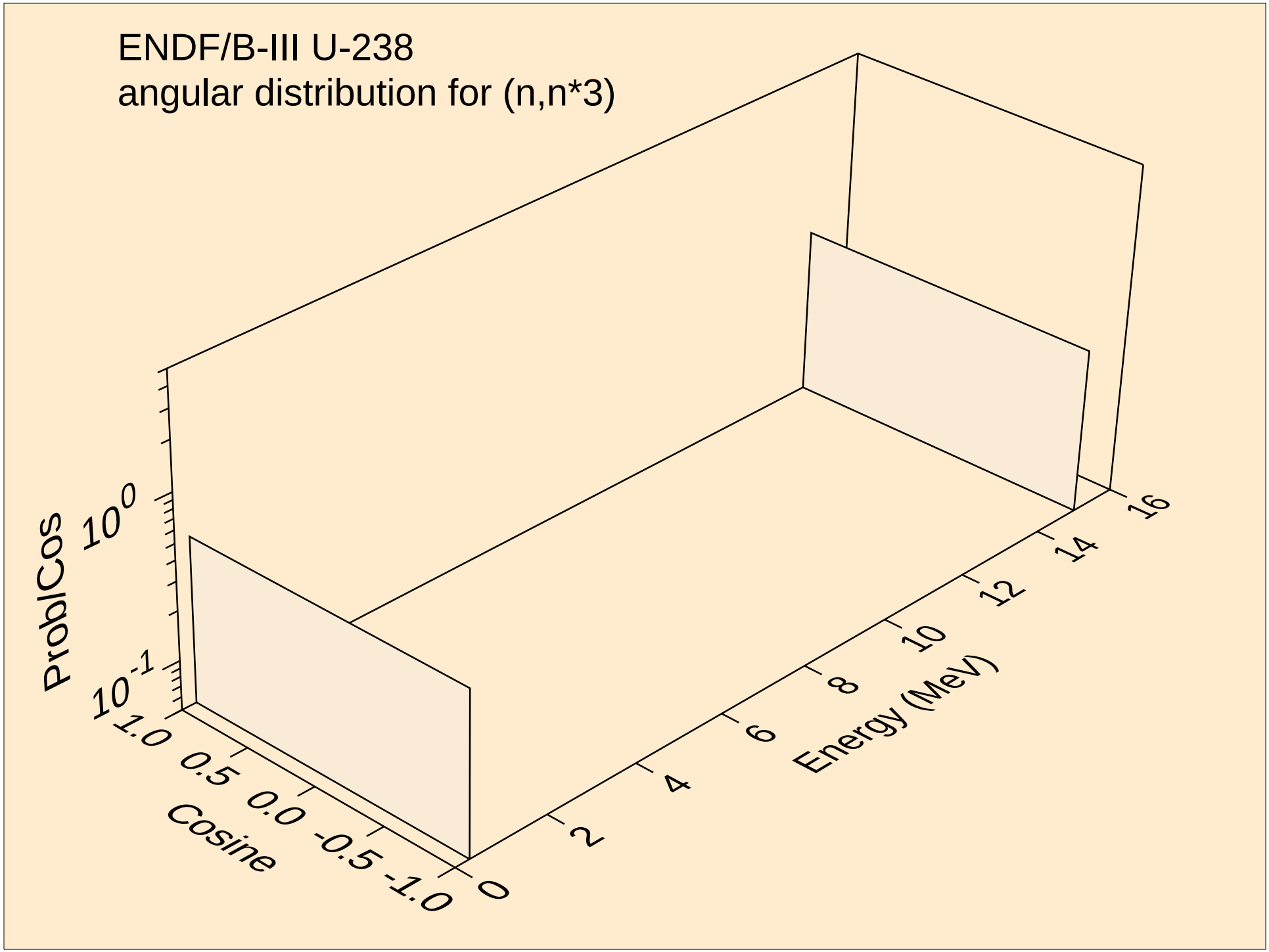

ENDF/B-III U-238
angular distribution for (n,2n)
Prob\Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
Energy (MeV)

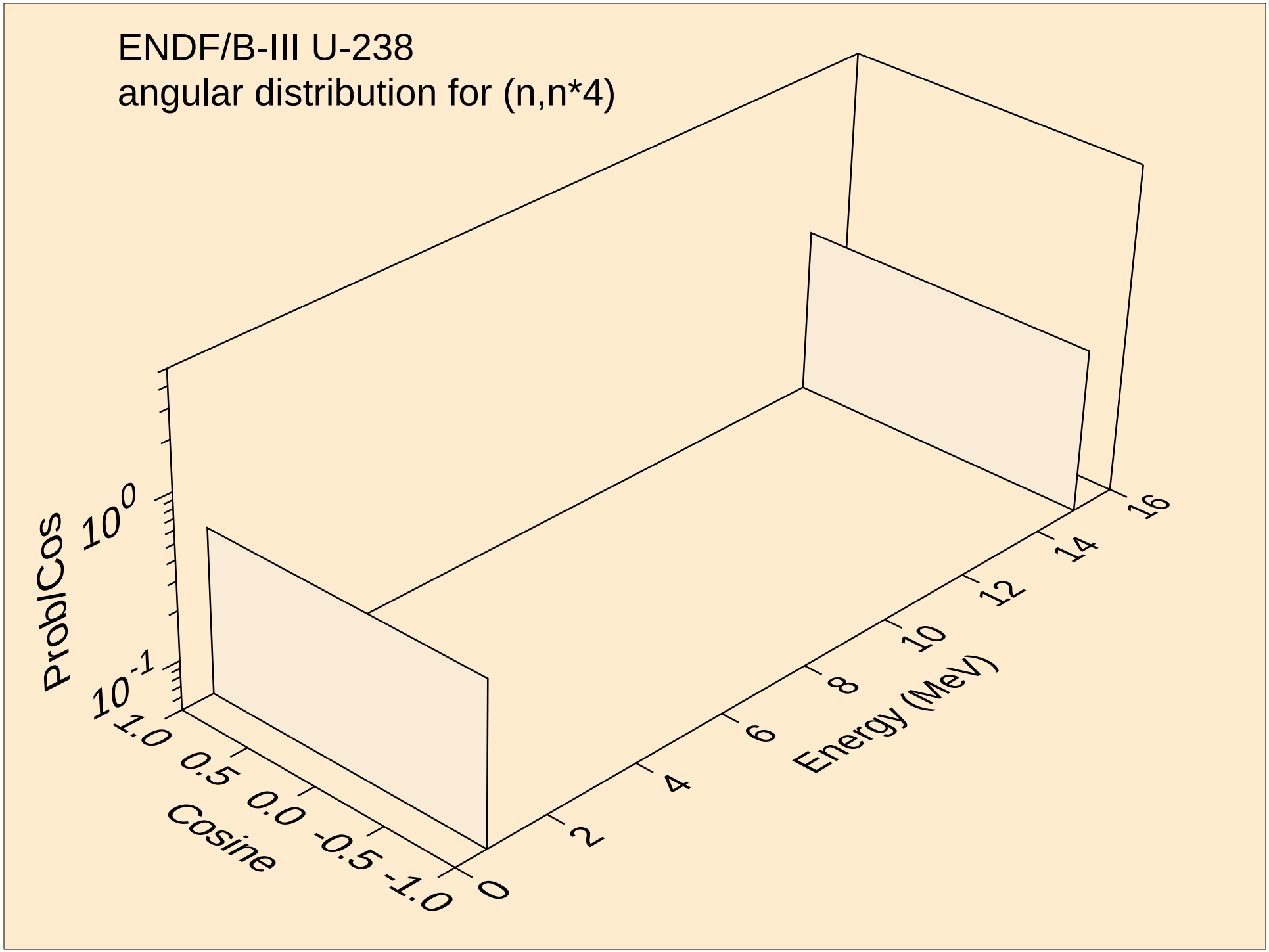

ENDF/B-III U-238
angular distribution for (n,3n)
Prob\Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
11.5
12.0
12.5
13.0
13.5
14.0
14.5
15.0
Energy (MeV)

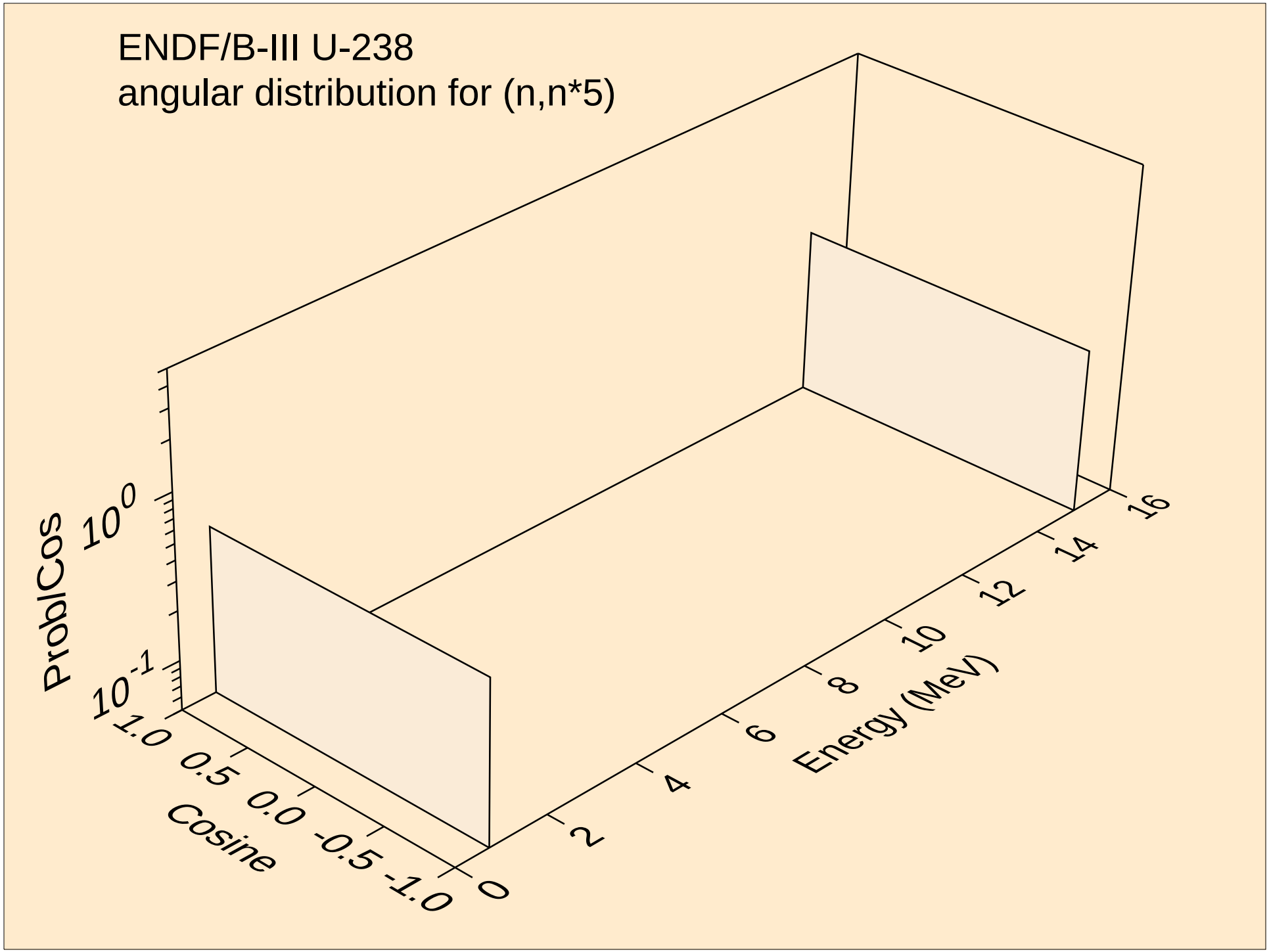

ENDF/B-III U-238
angular distribution for fission
Prob\Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)

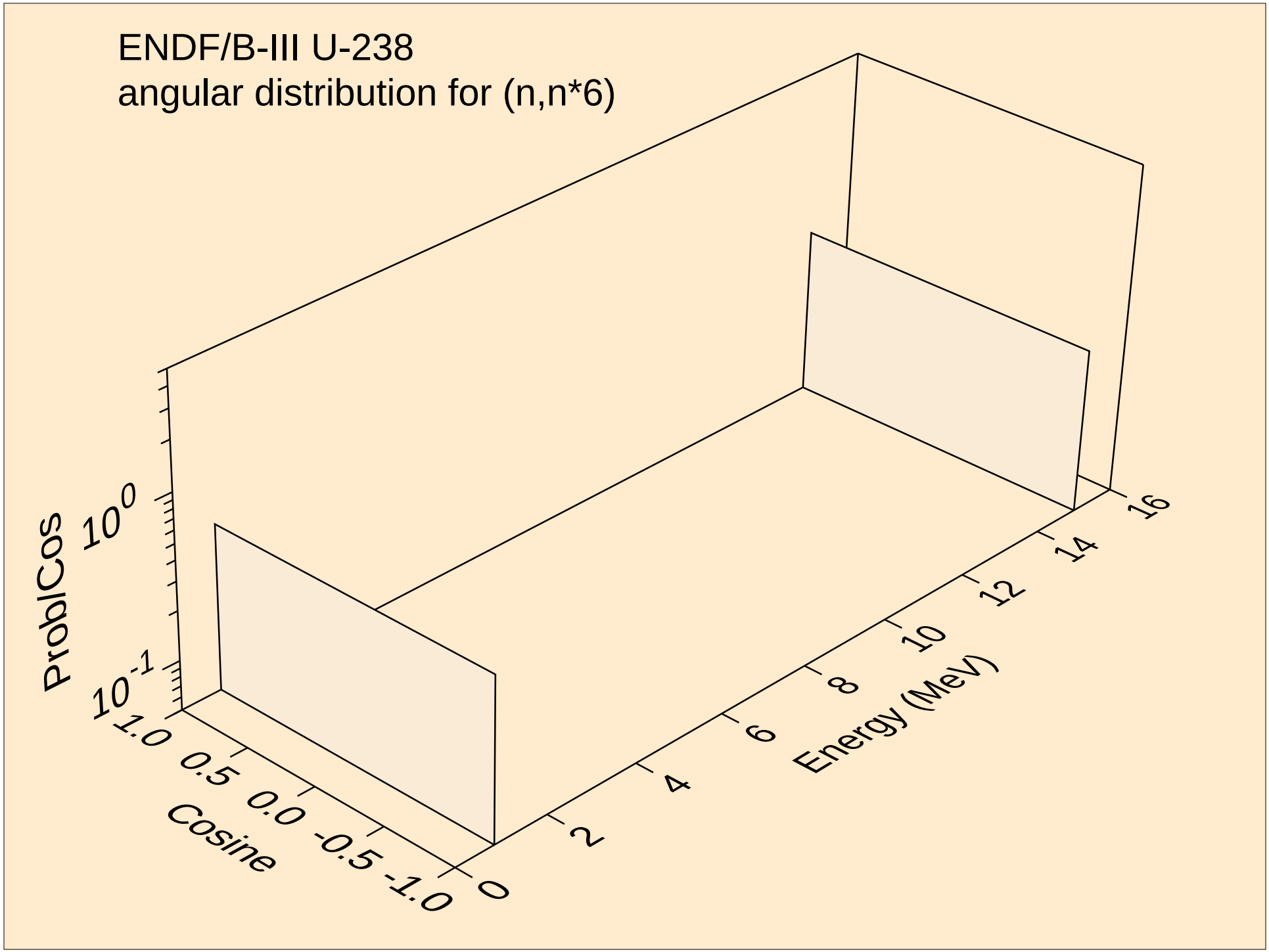

ENDF/B-III U-238
angular distribution for (n,n*1)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)

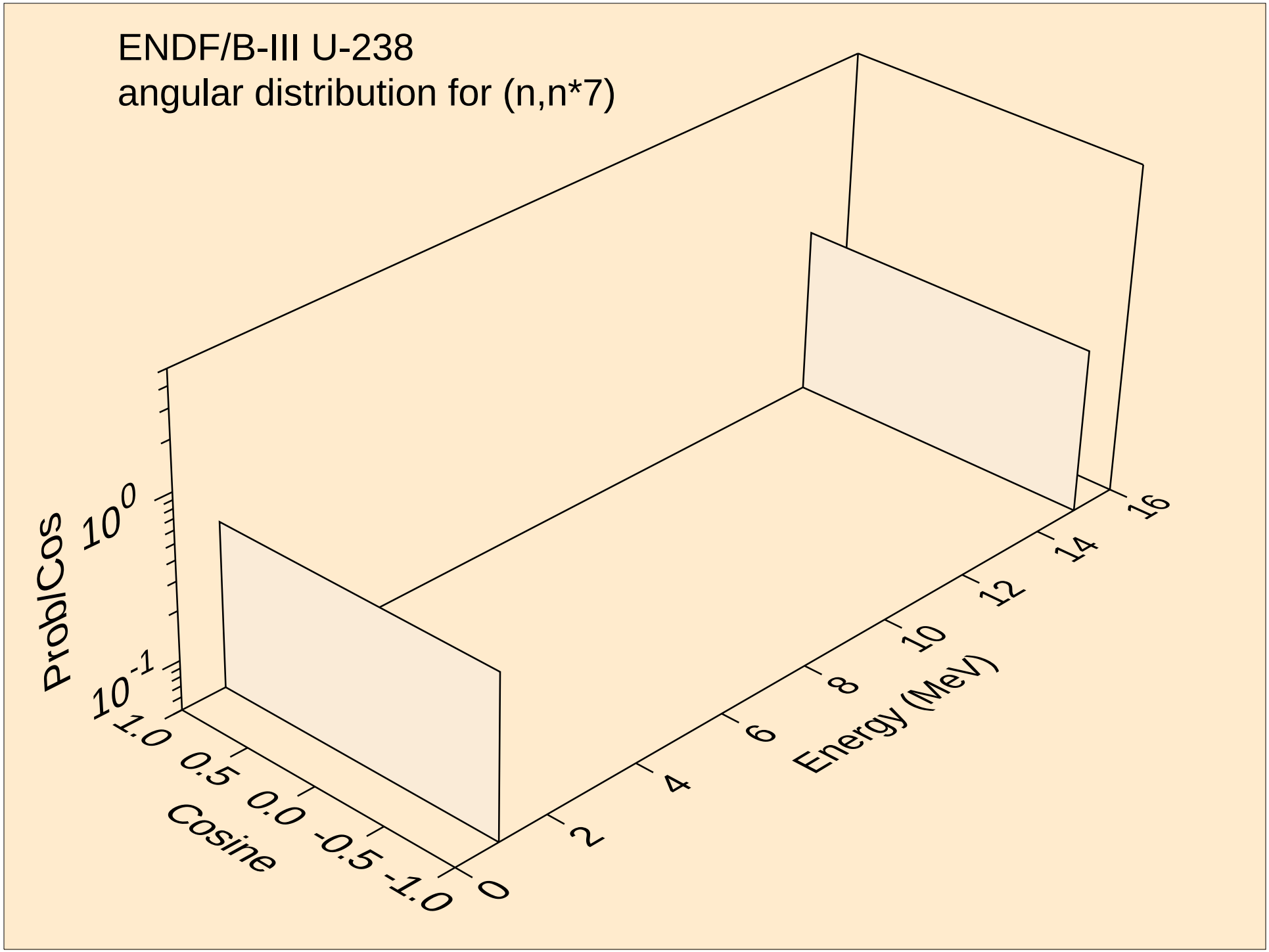

ENDF/B-III U-238
angular distribution for (n,n*2)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)

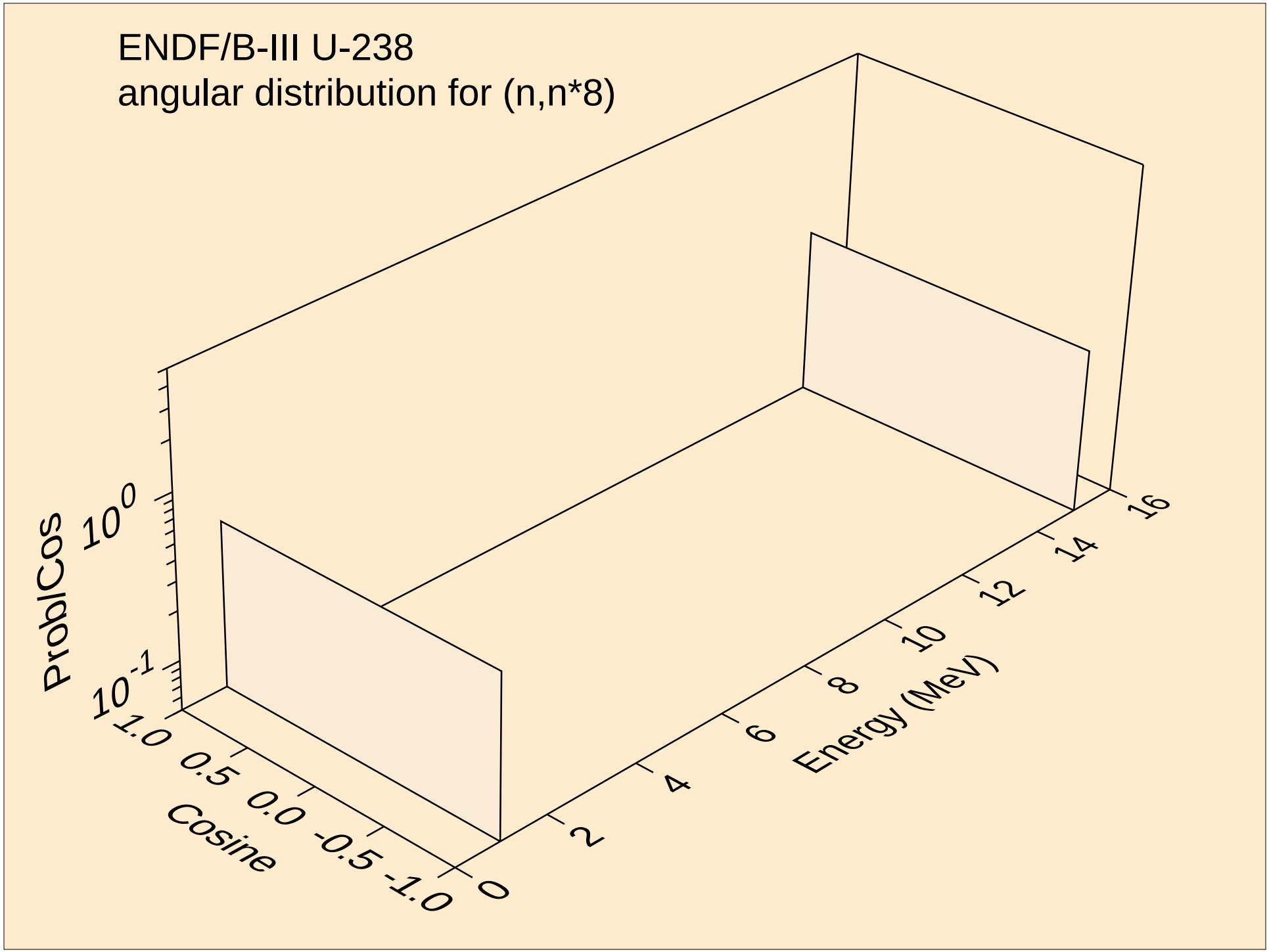

ENDF/B-III U-238
angular distribution for (n,n*3)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)

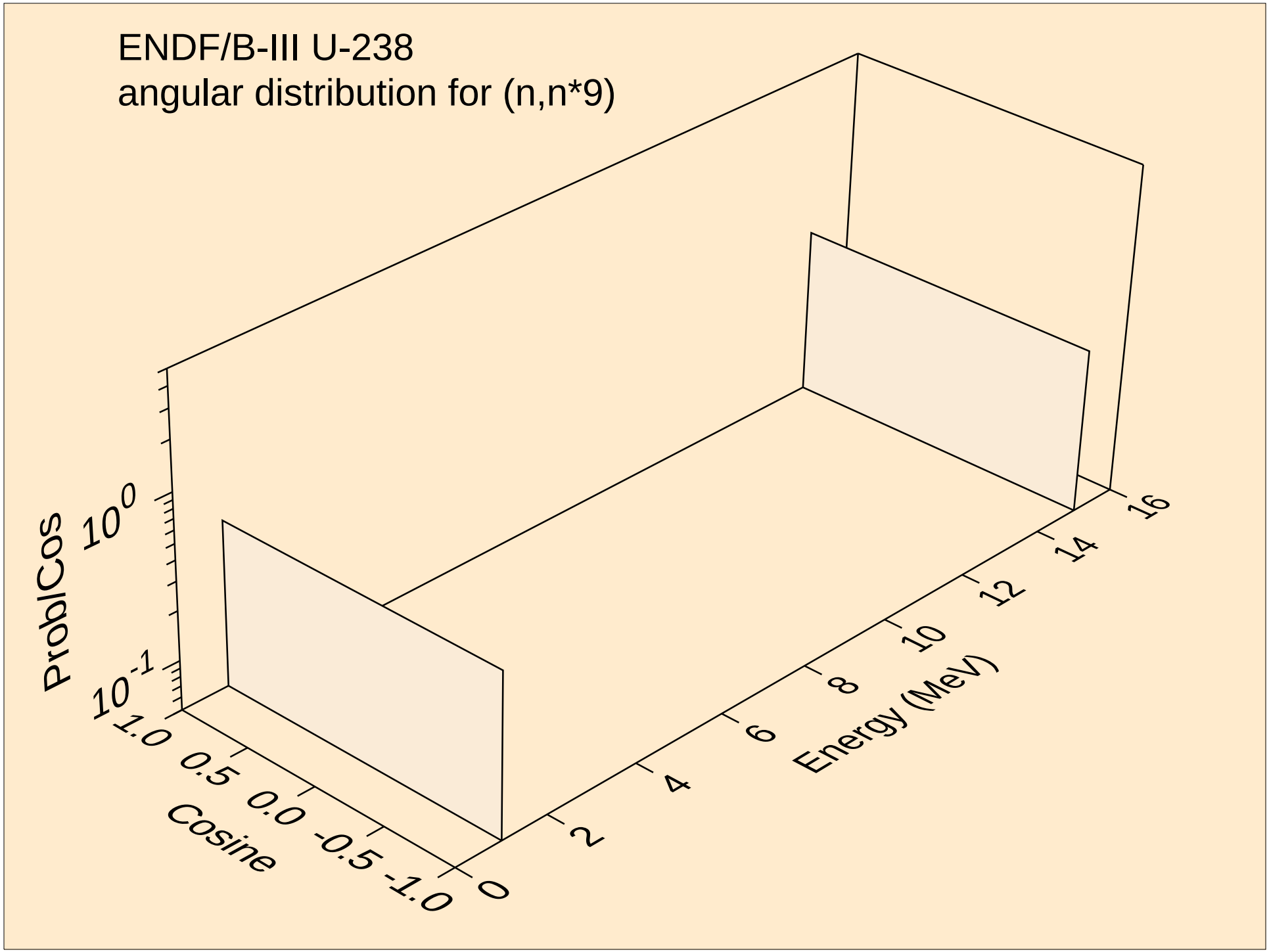

ENDF/B-III U-238
angular distribution for (n,n*4)
Prob|Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)

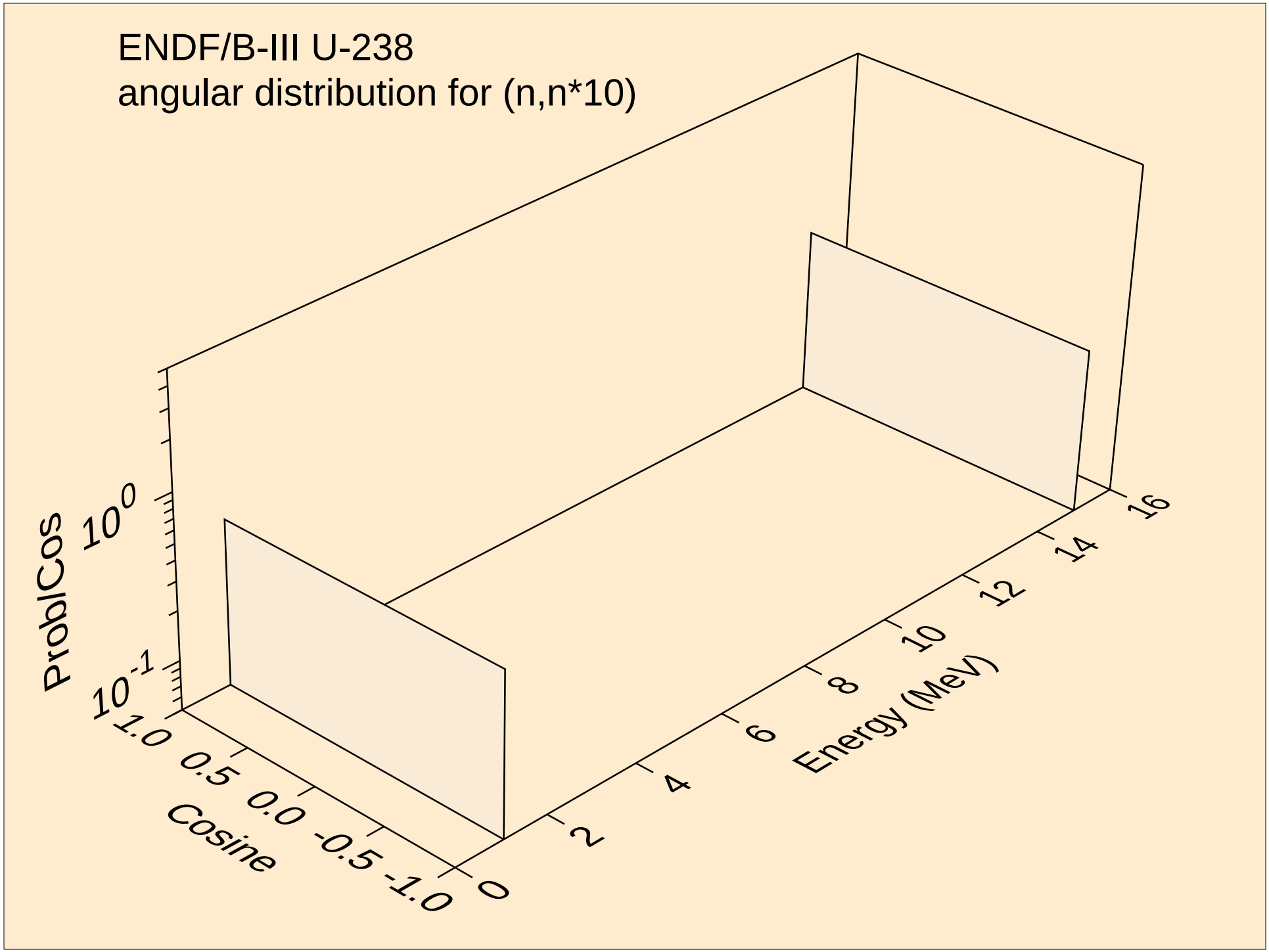

ENDF/B-III U-238
angular distribution for (n,n*5)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)

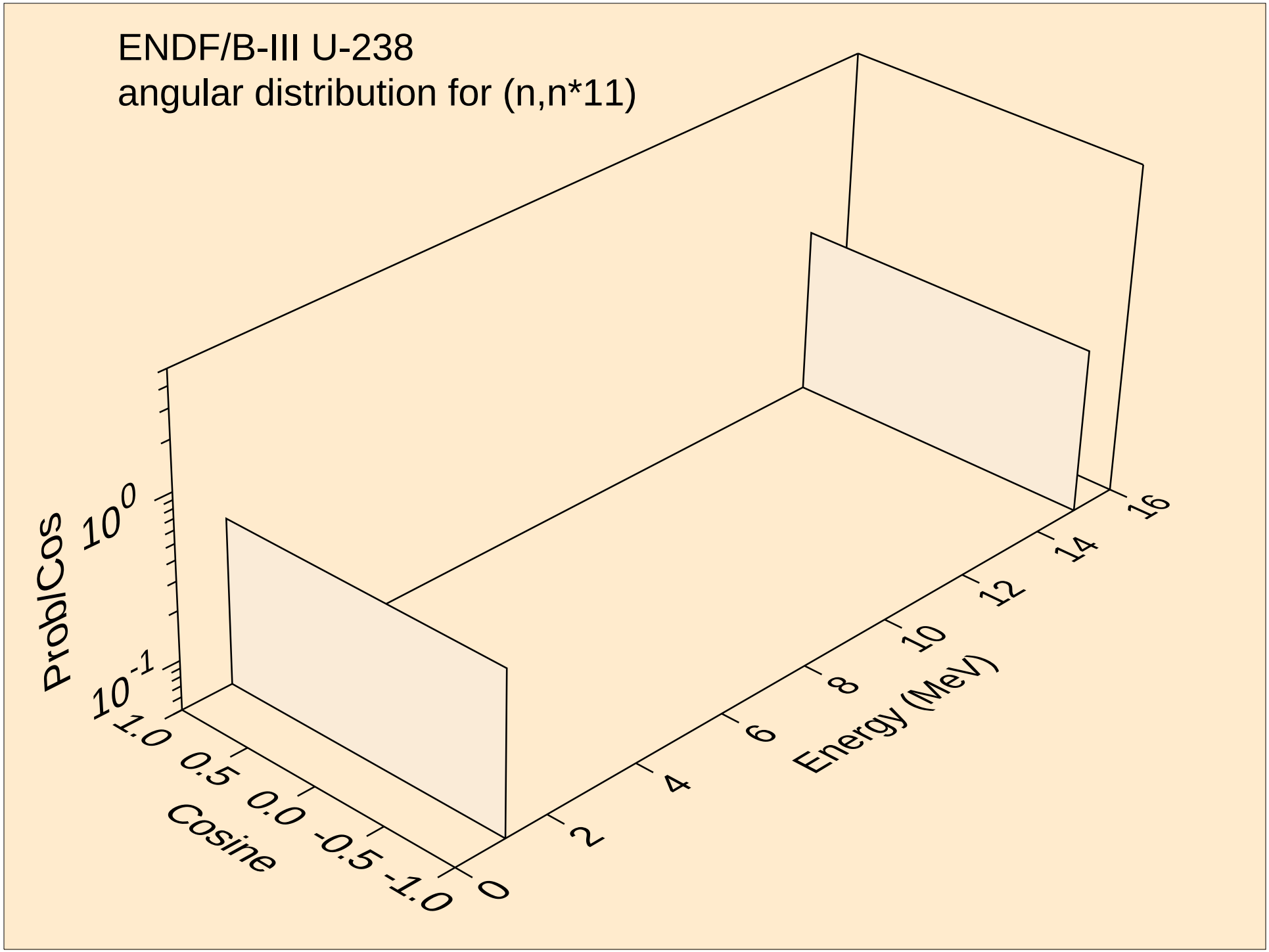

ENDF/B-III U-238
angular distribution for (n,n*6)
Prob\Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)

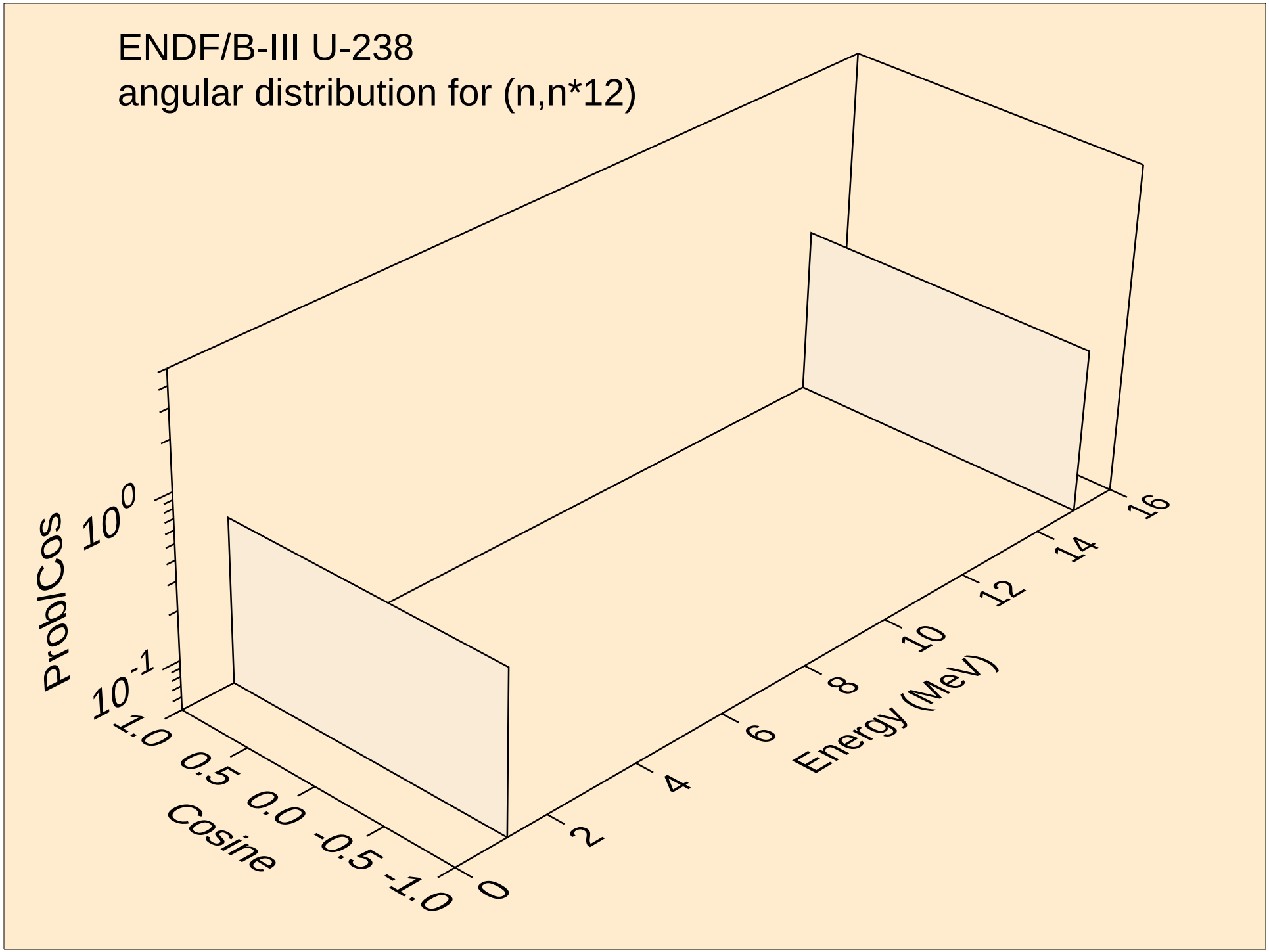

ENDF/B-III U-238
angular distribution for (n,n*7)
Prob\Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)

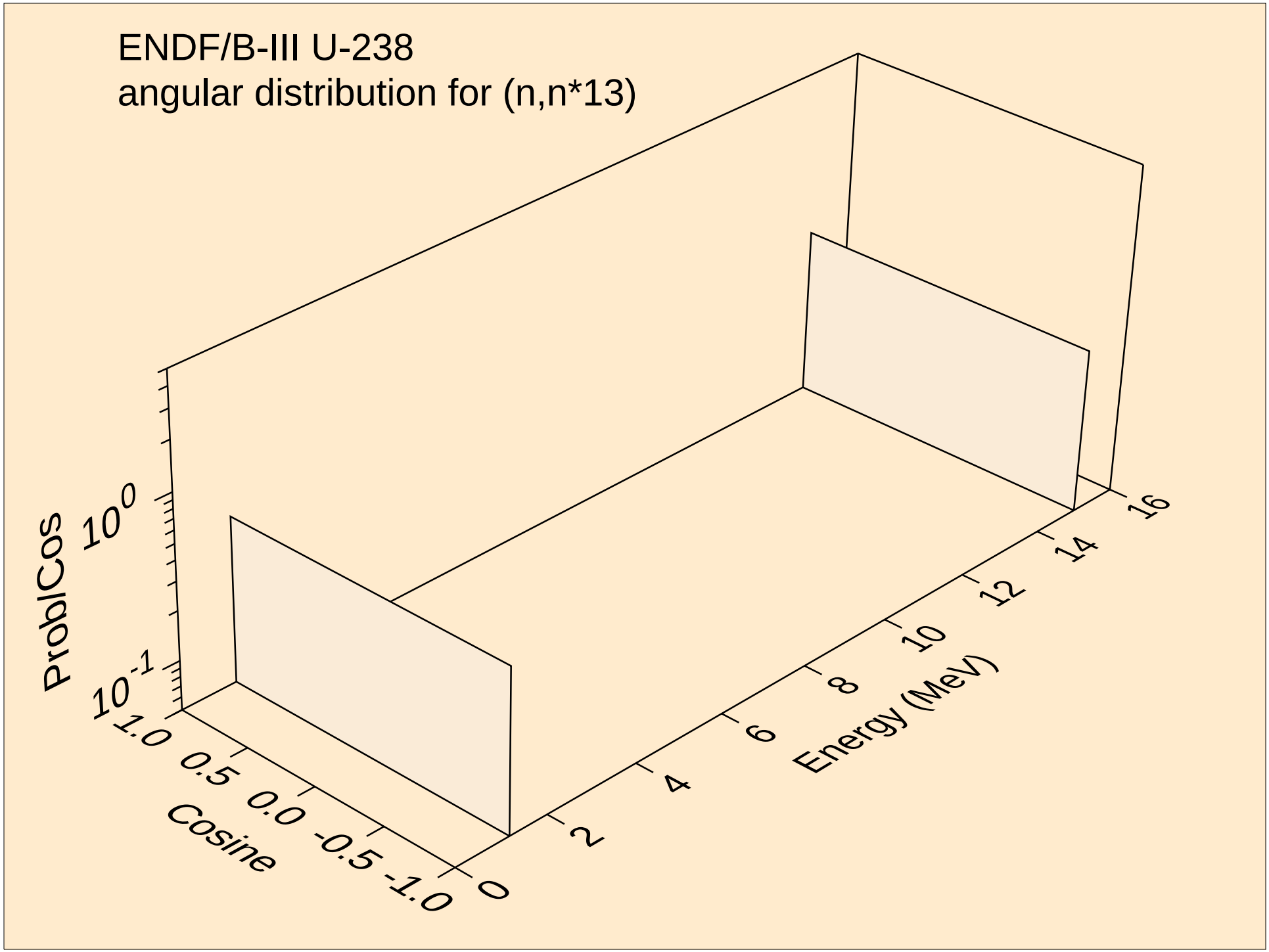

ENDF/B-III U-238
angular distribution for (n,n*8)
Prob\Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)

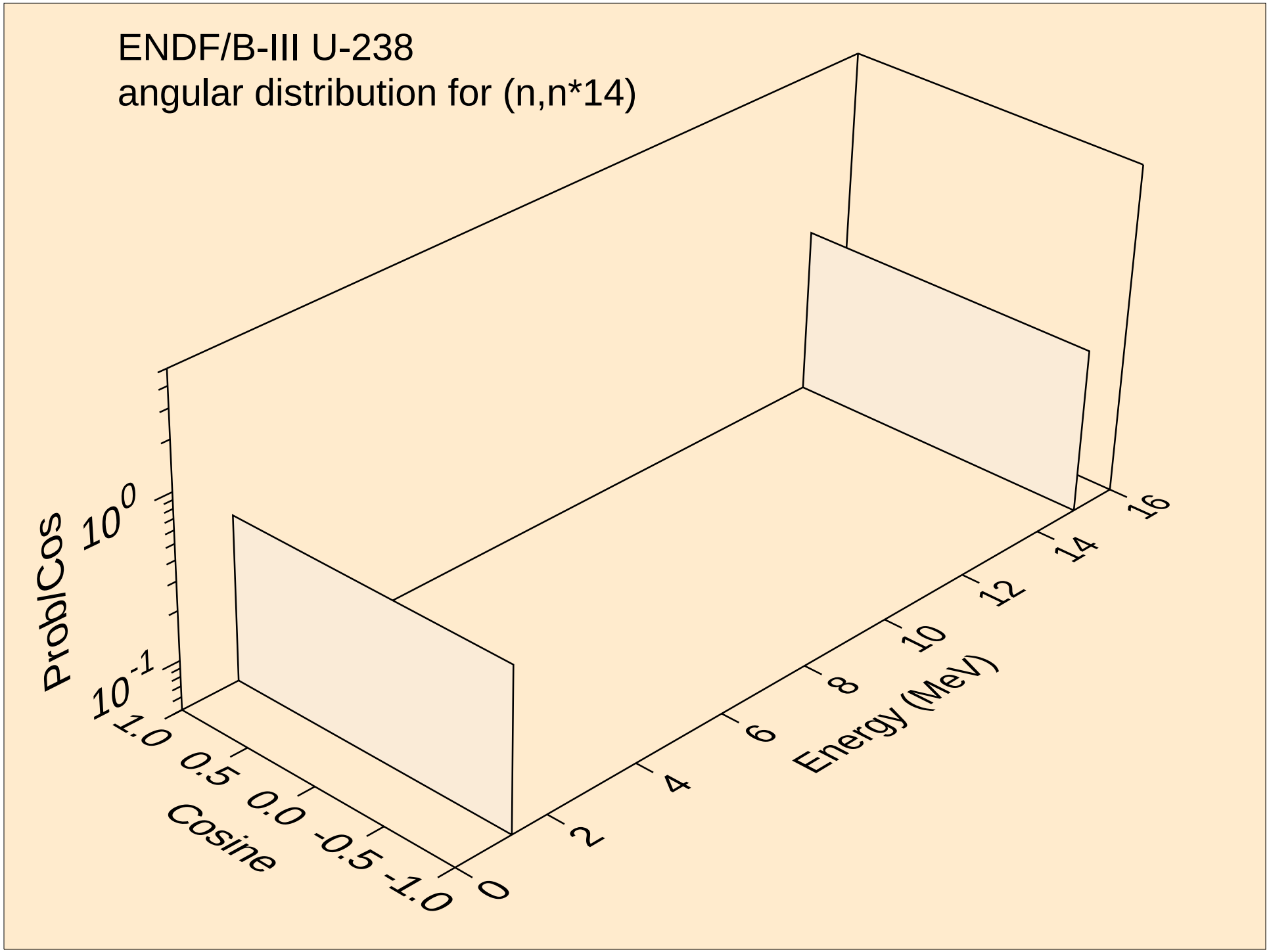

ENDF/B-III U-238
angular distribution for (n,n*9)
Prob\Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)

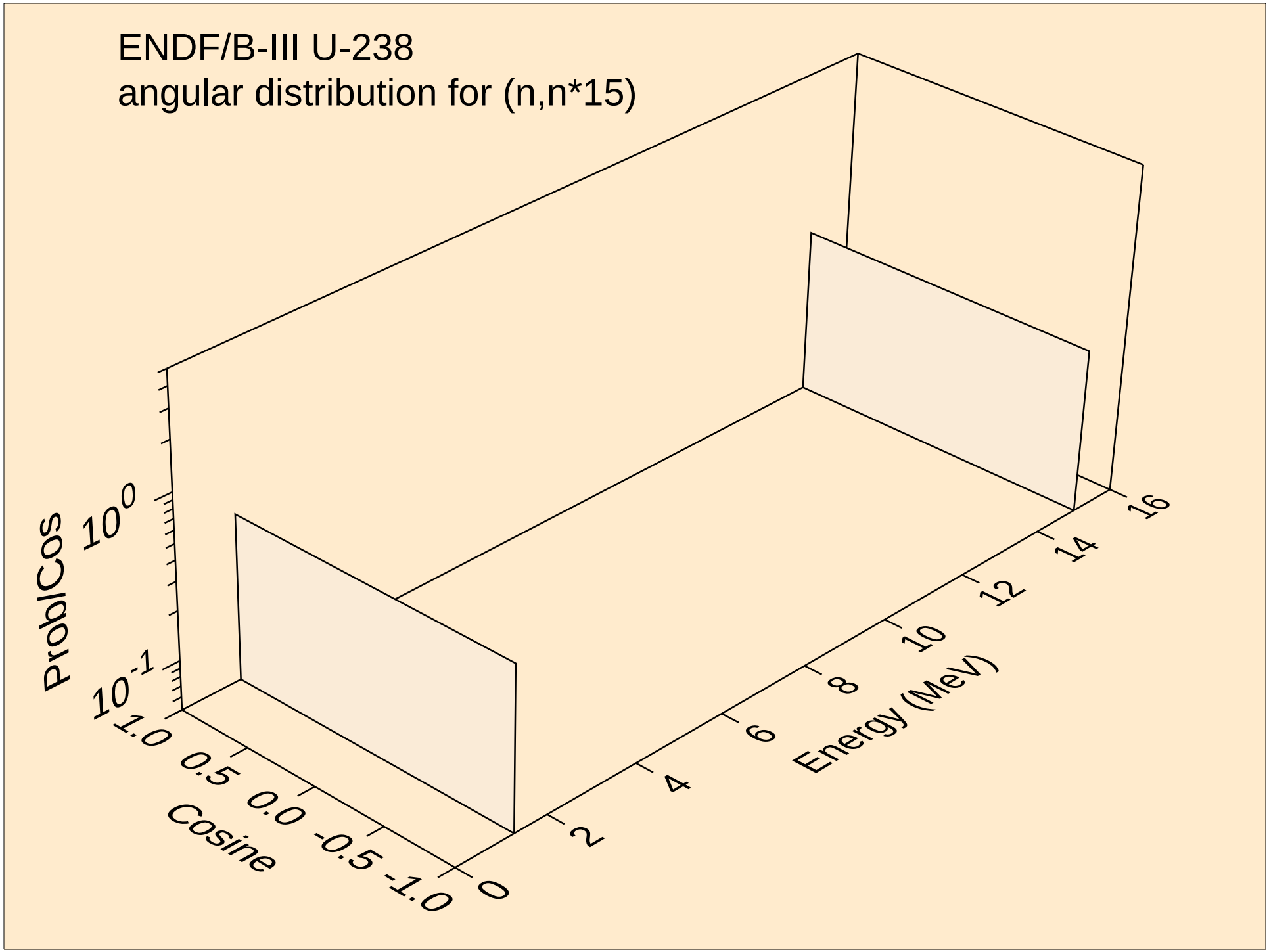

ENDF/B-III U-238
angular distribution for (n,n*10)
Prob\Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)

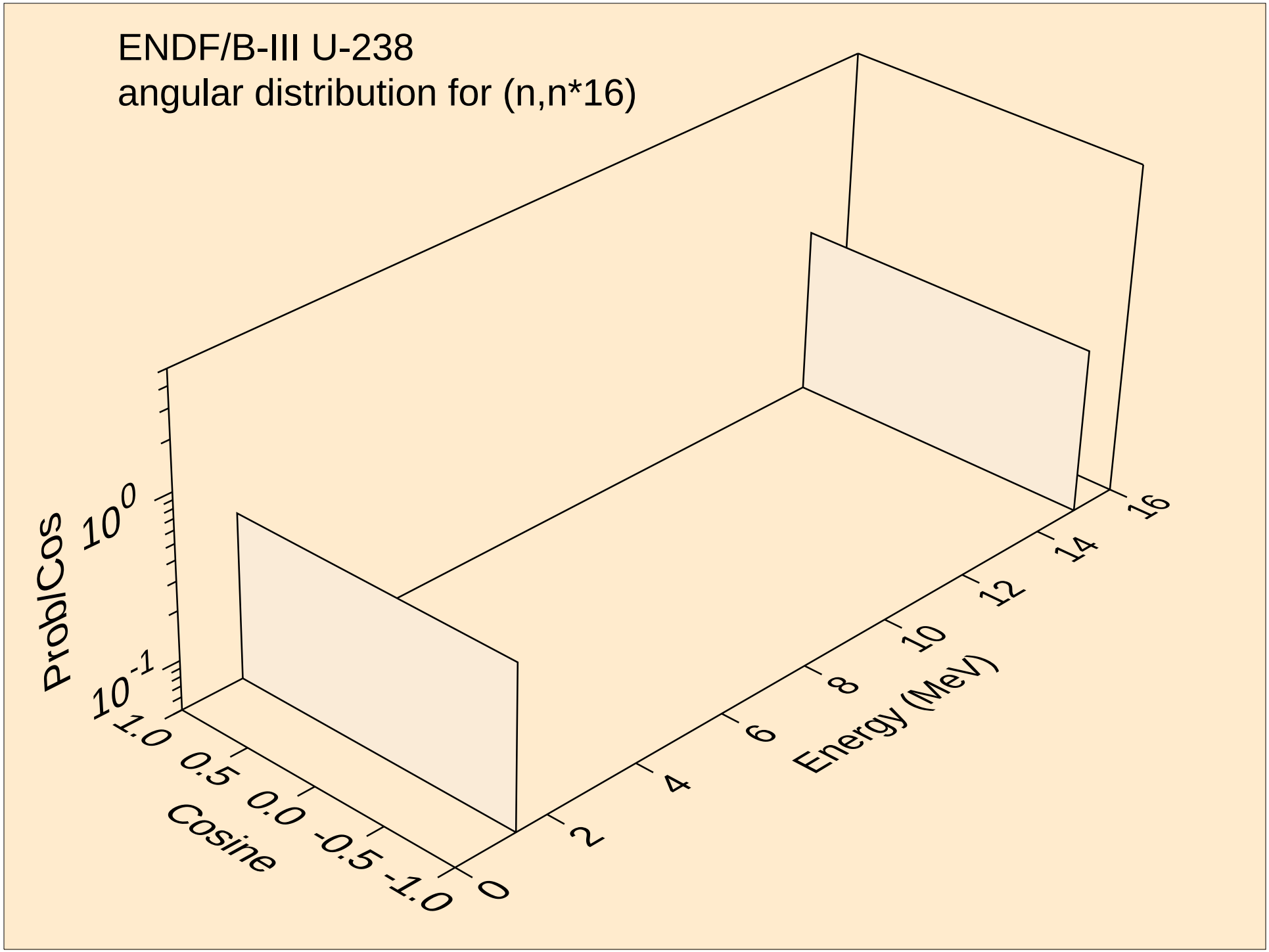

ENDF/B-III U-238
angular distribution for (n,n*11)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)

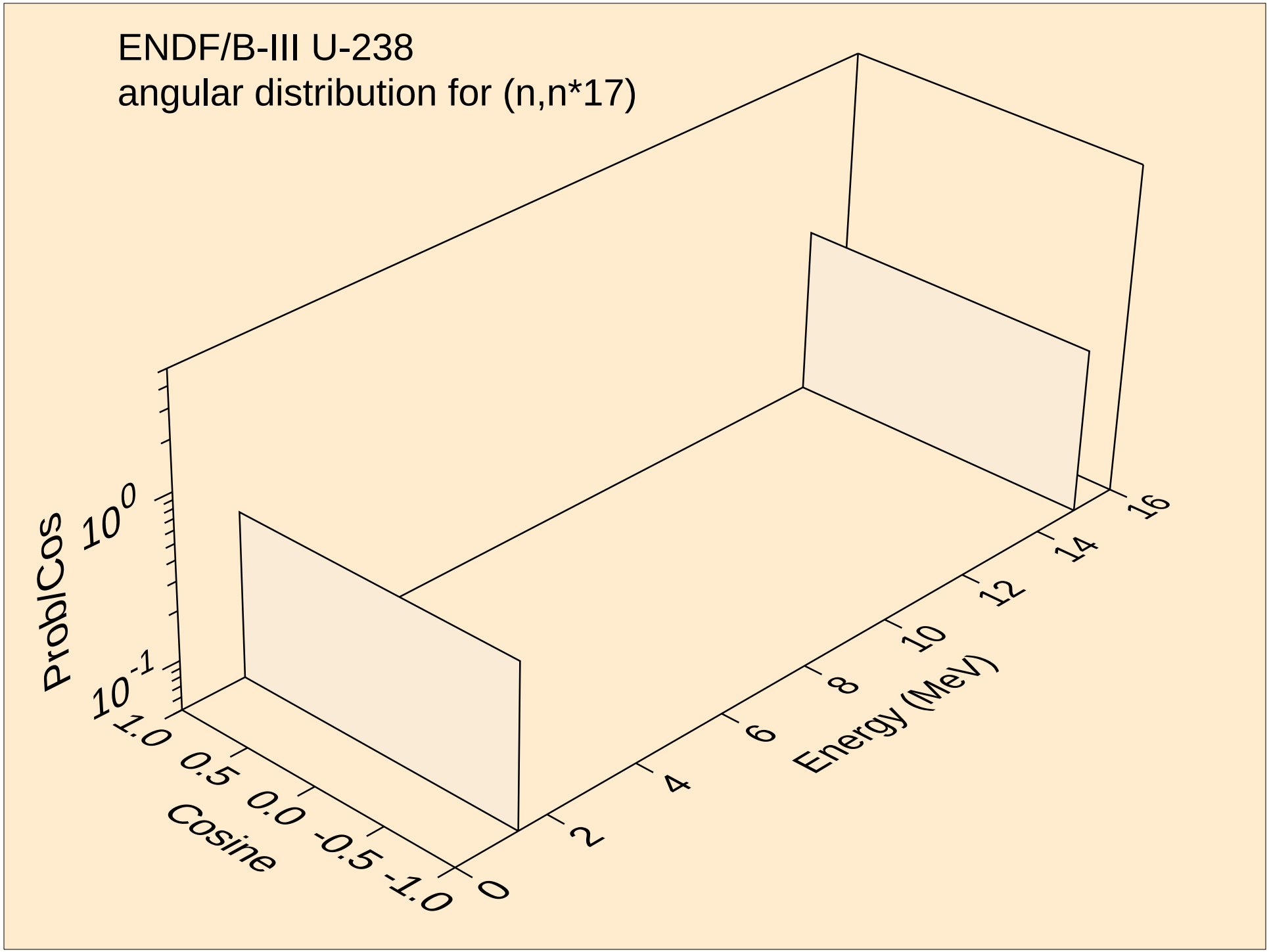

ENDF/B-III U-238
angular distribution for (n,n*12)
Prob|Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)

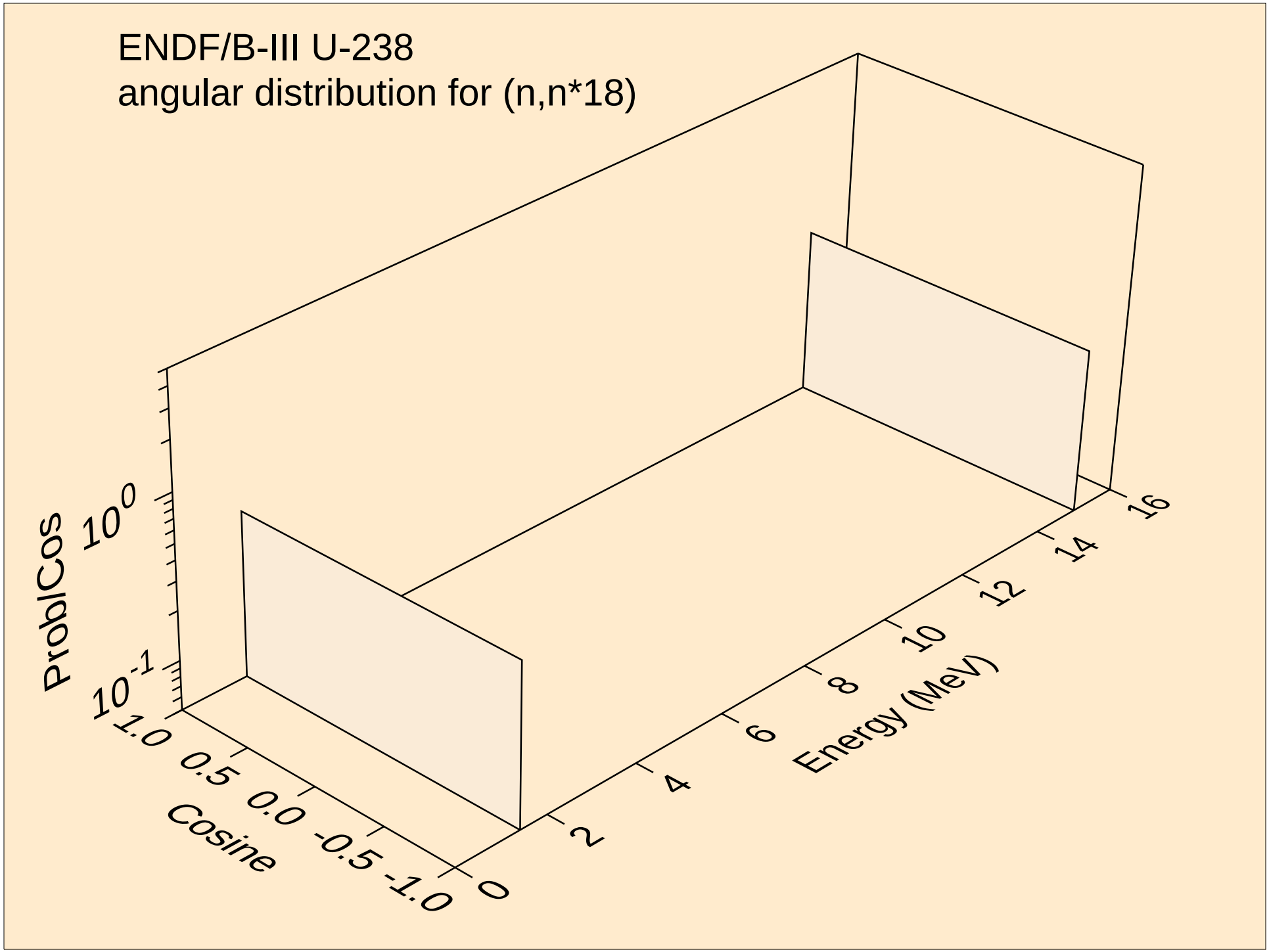

ENDF/B-III U-238
angular distribution for (n,n*13)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)

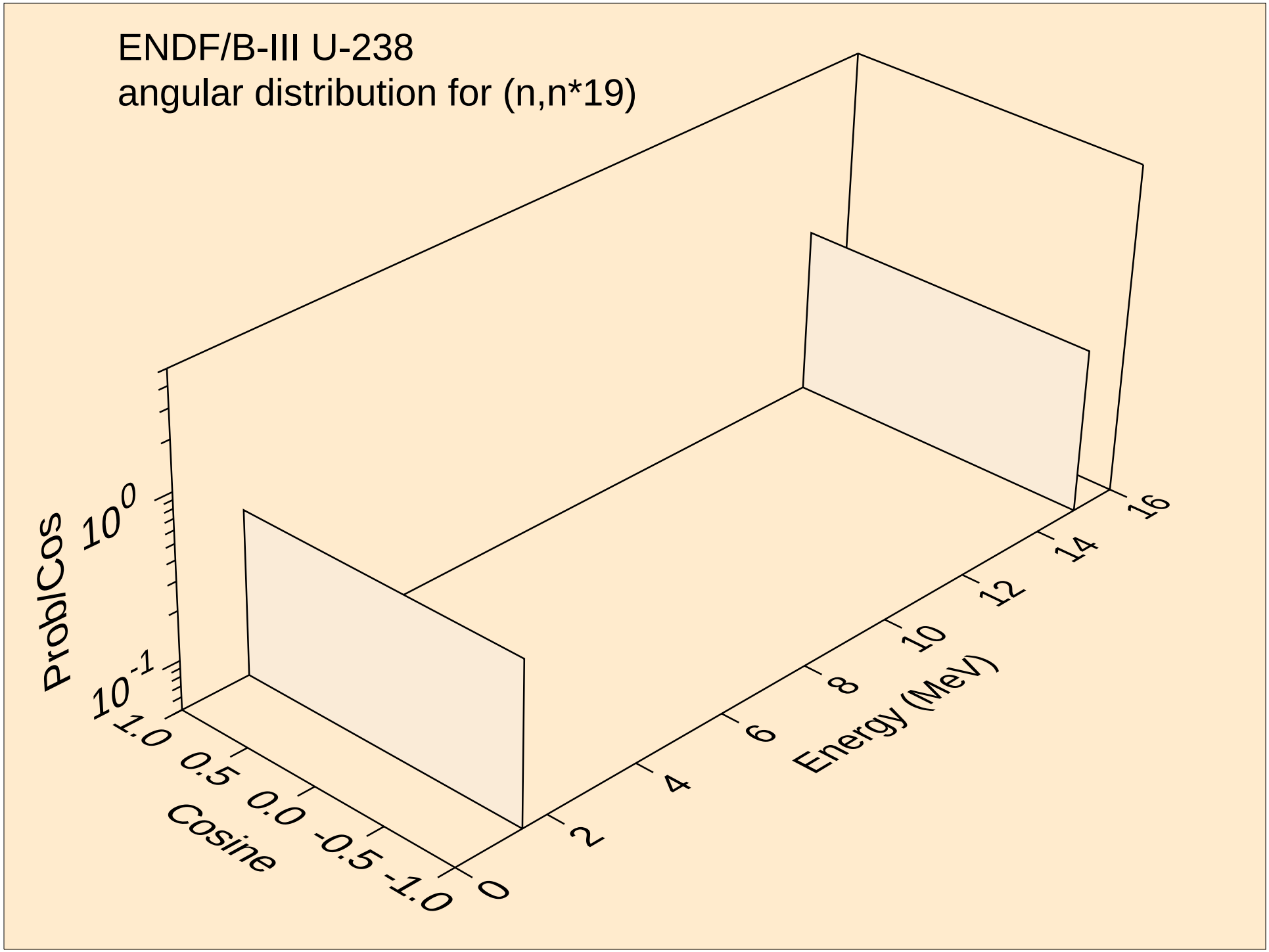

ENDF/B-III U-238
angular distribution for (n,n*14)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)

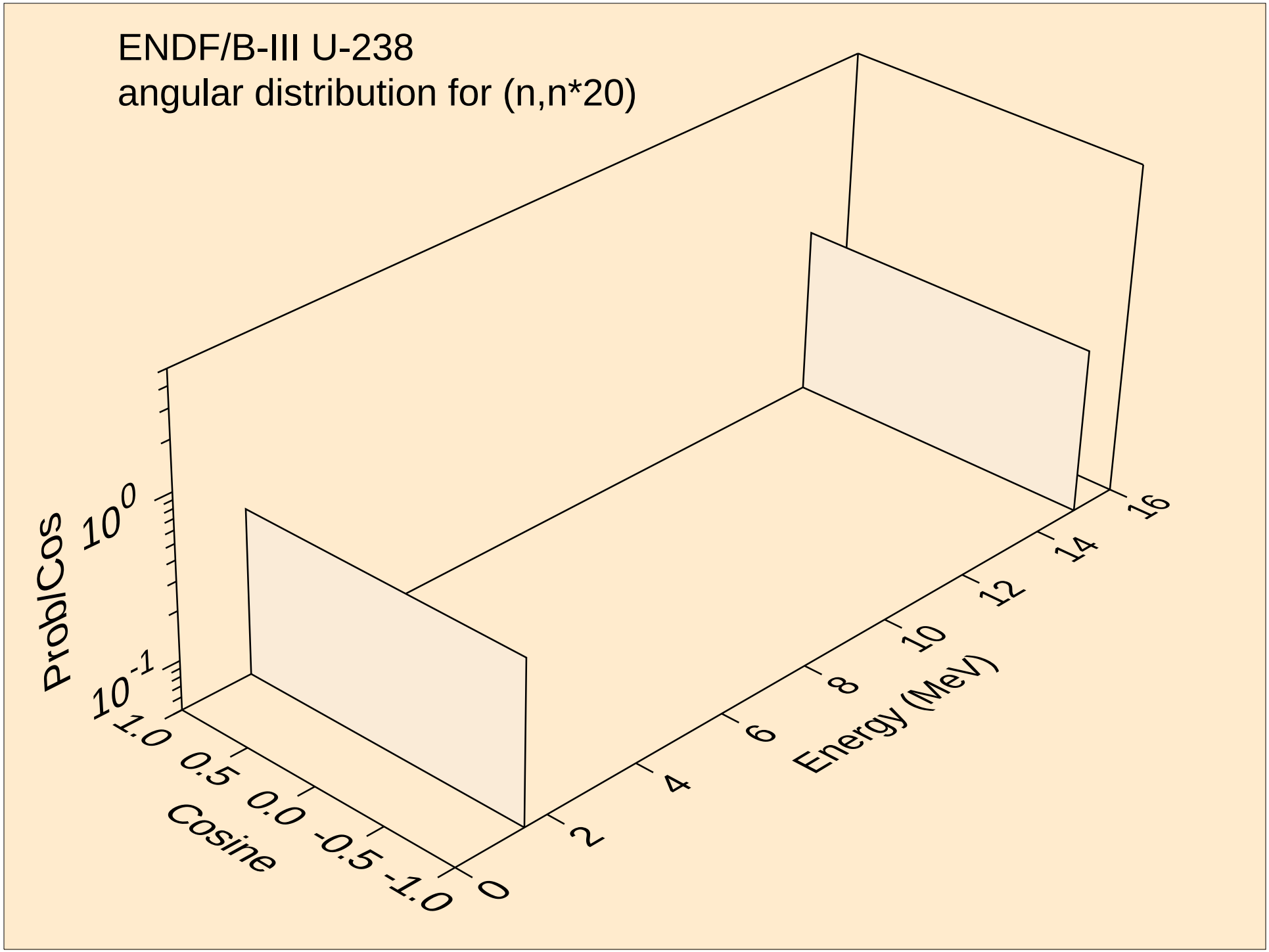

ENDF/B-III U-238
angular distribution for (n,n*15)
Prob\Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)

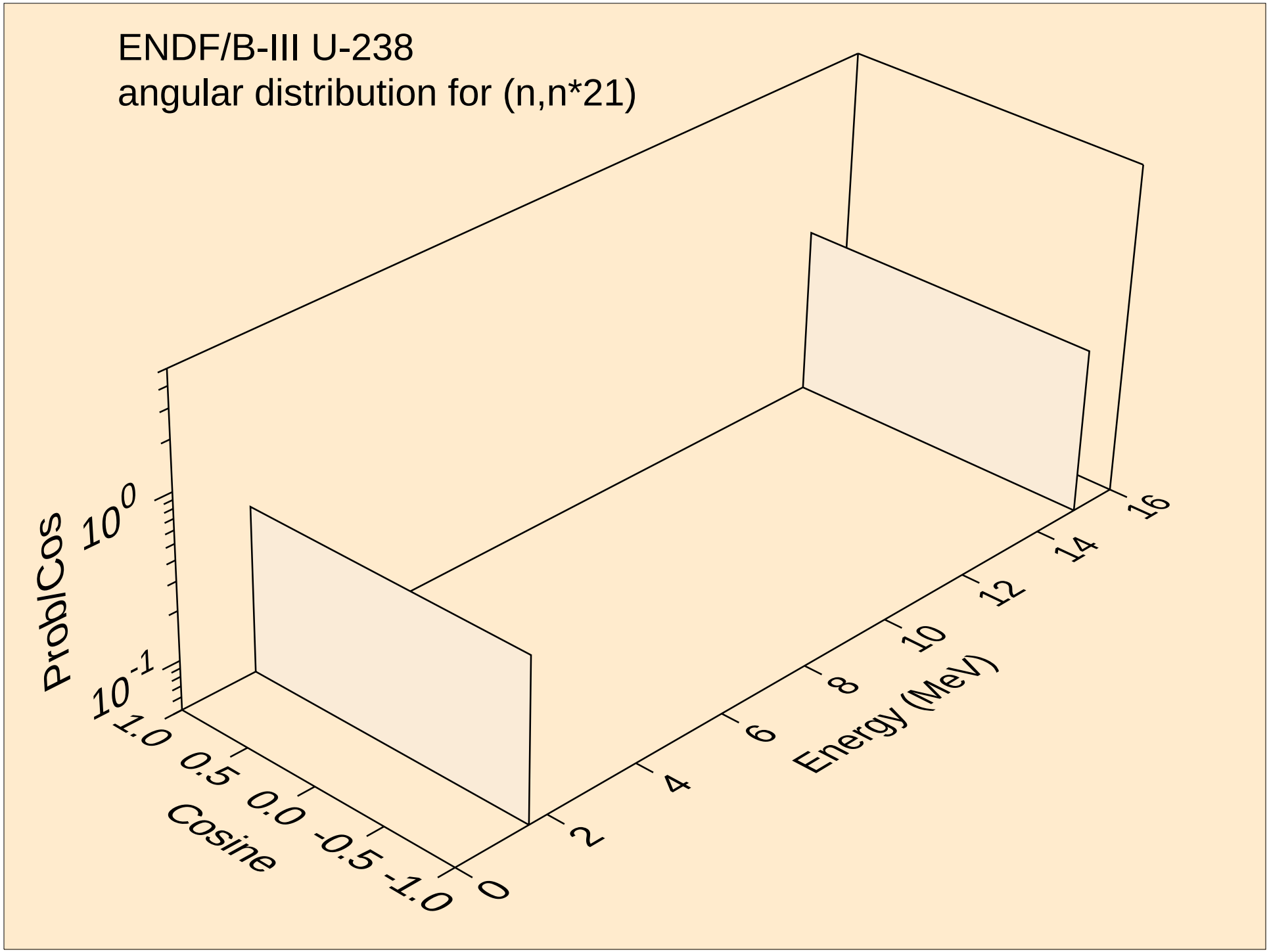

ENDF/B-III U-238
angular distribution for (n,n*16)
Prob\Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)

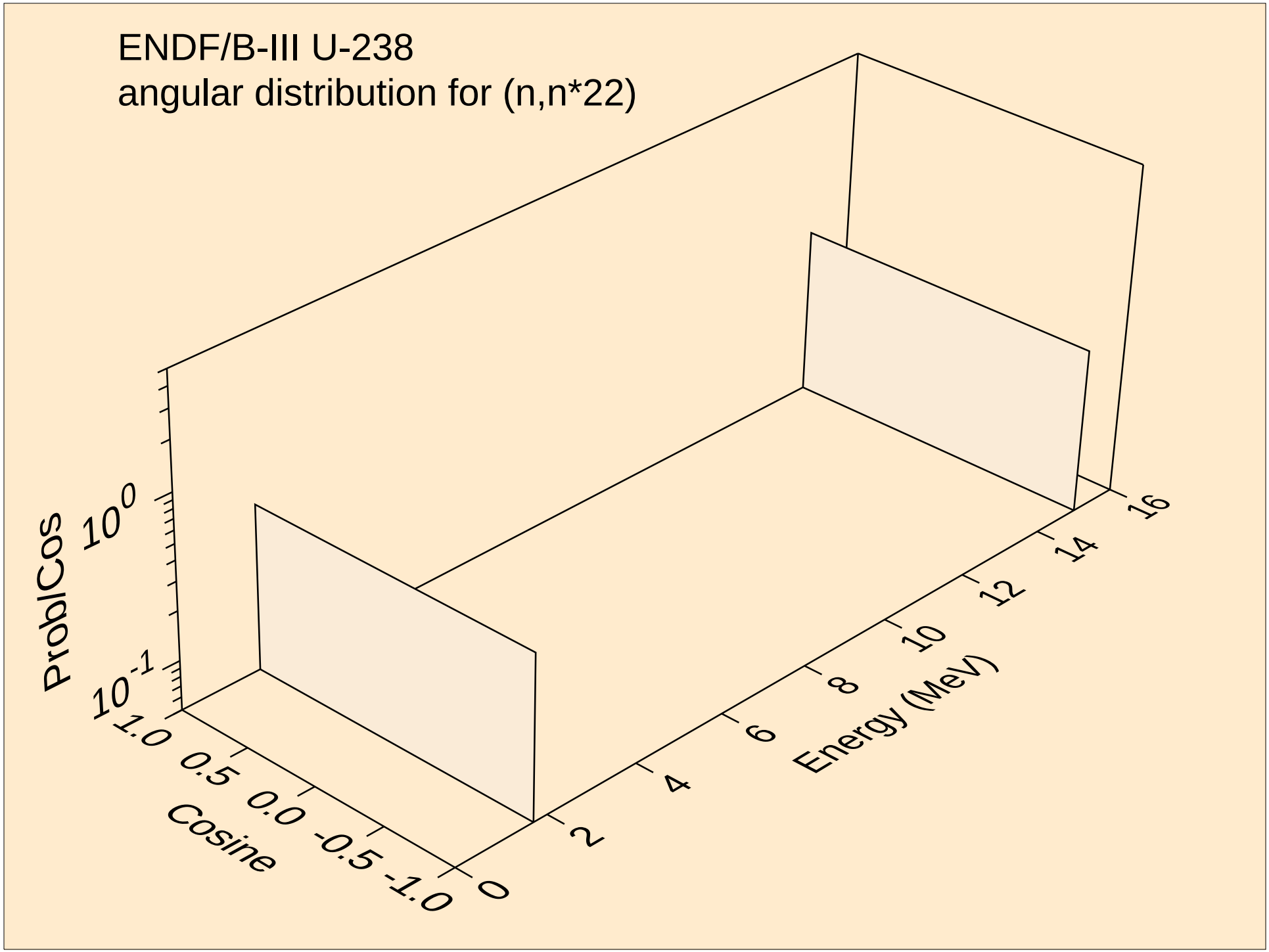

ENDF/B-III U-238
angular distribution for (n,n*17)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)

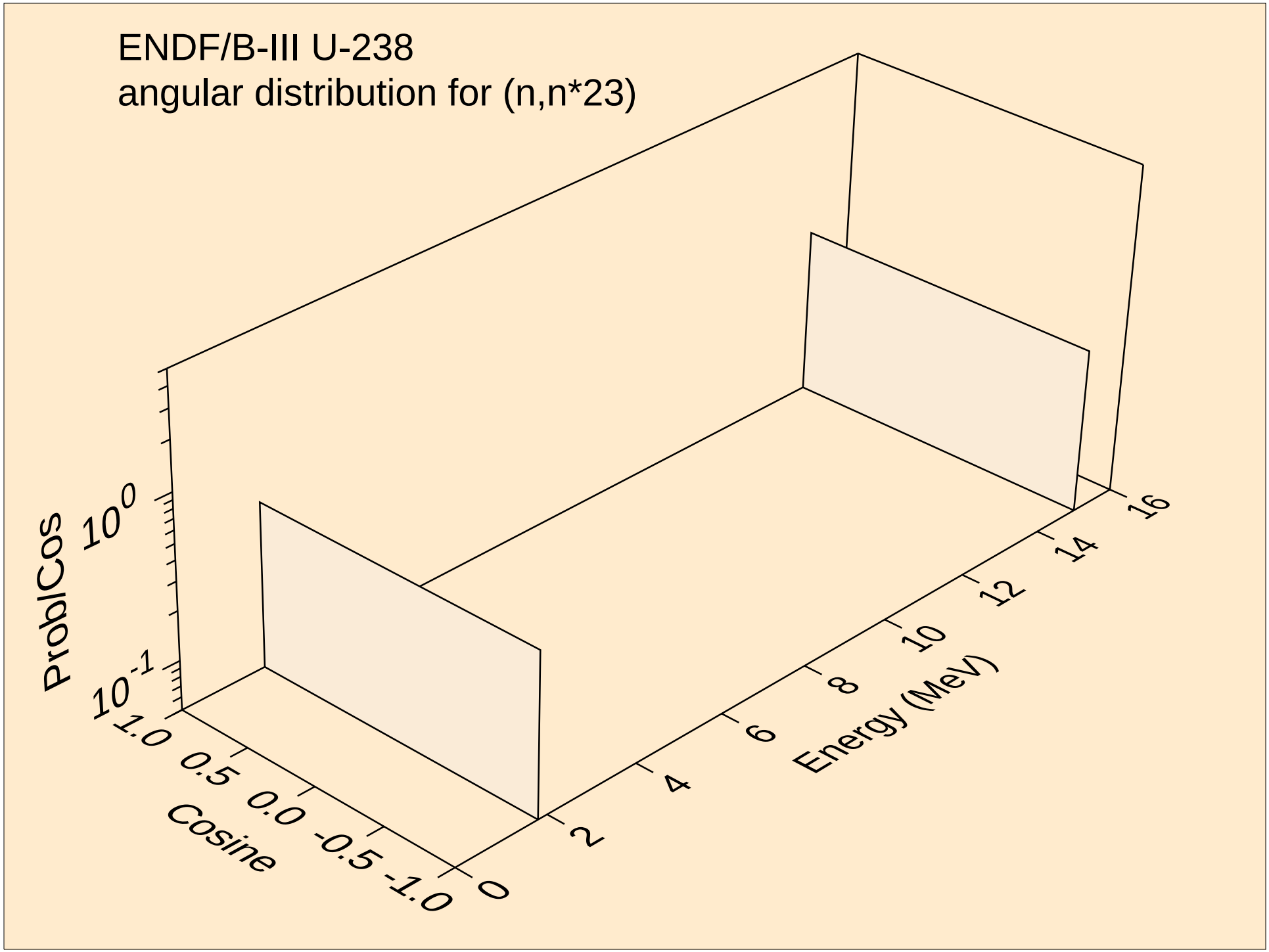

ENDF/B-III U-238
angular distribution for (n,n*18)
Prob\Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)

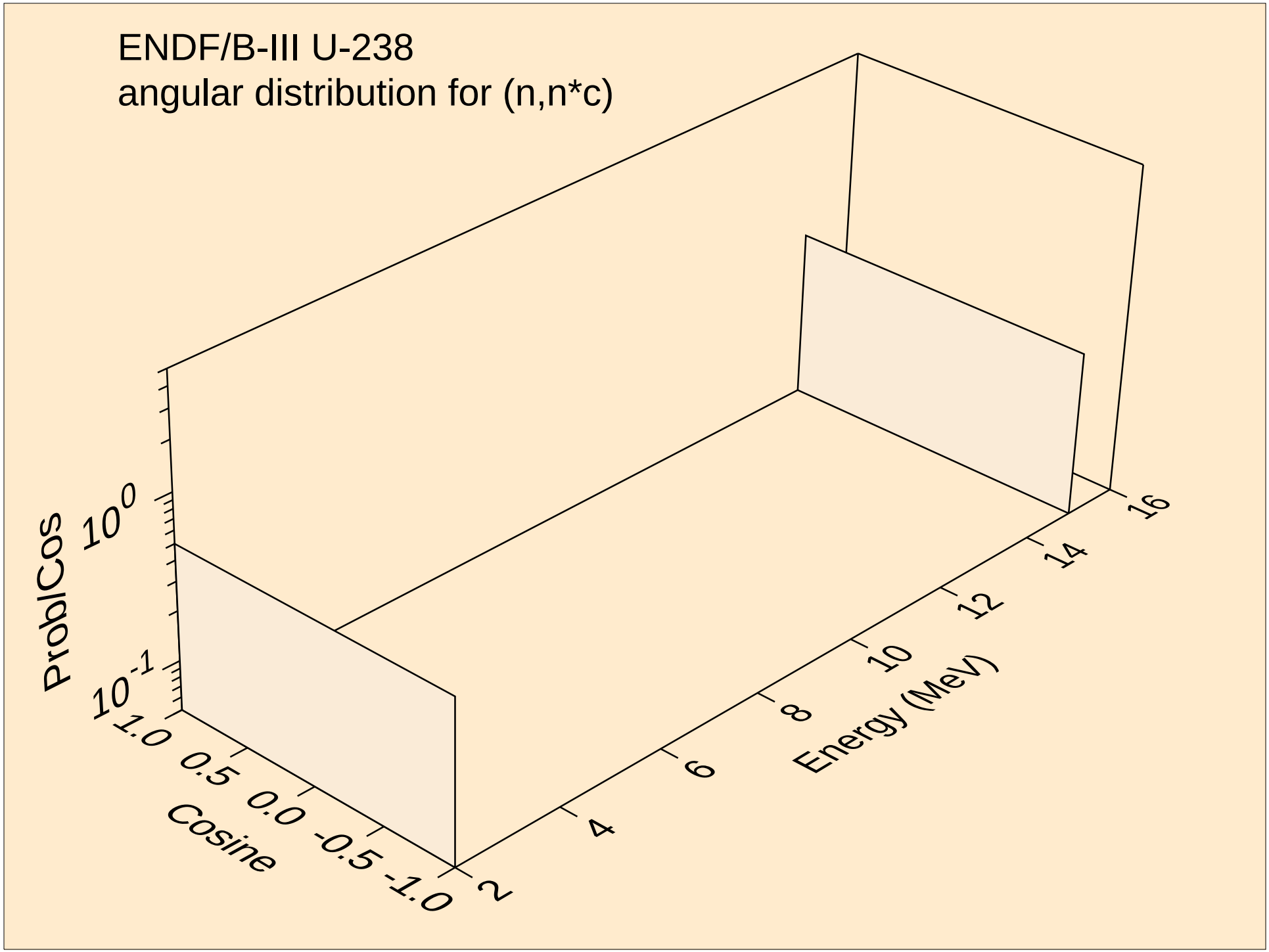

ENDF/B-III U-238
angular distribution for (n,n*19)
Prob\Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)

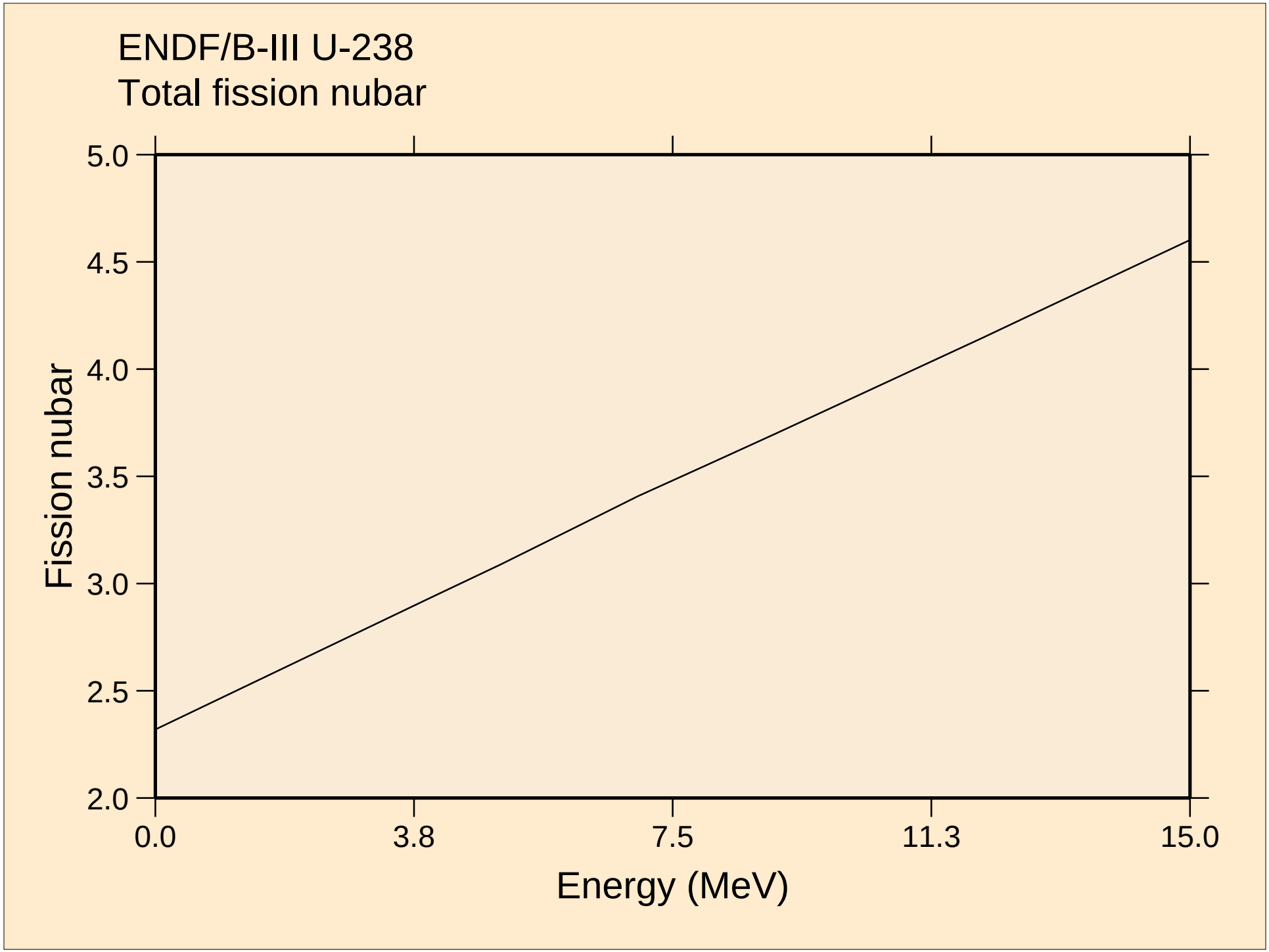

ENDF/B-III U-238
angular distribution for (n,n*20)
Prob\Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)


ENDF/B-III U-238
angular distribution for (n,n*21)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)


ENDF/B-III U-238
angular distribution for (n,n*22)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)


ENDF/B-III U-238
angular distribution for (n,n*23)
Prob\Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
Energy (MeV)


ENDF/B-III U-238
angular distribution for (n,n*c)
Prob\Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
Energy (MeV)


ENDF/B-III U-238
Total fission nubar
Fission nubar
5.0
4.5
4.0
3.5
3.0
2.5
2.0
0.0
3.8
7.5
11.3
15.0
Energy (MeV)