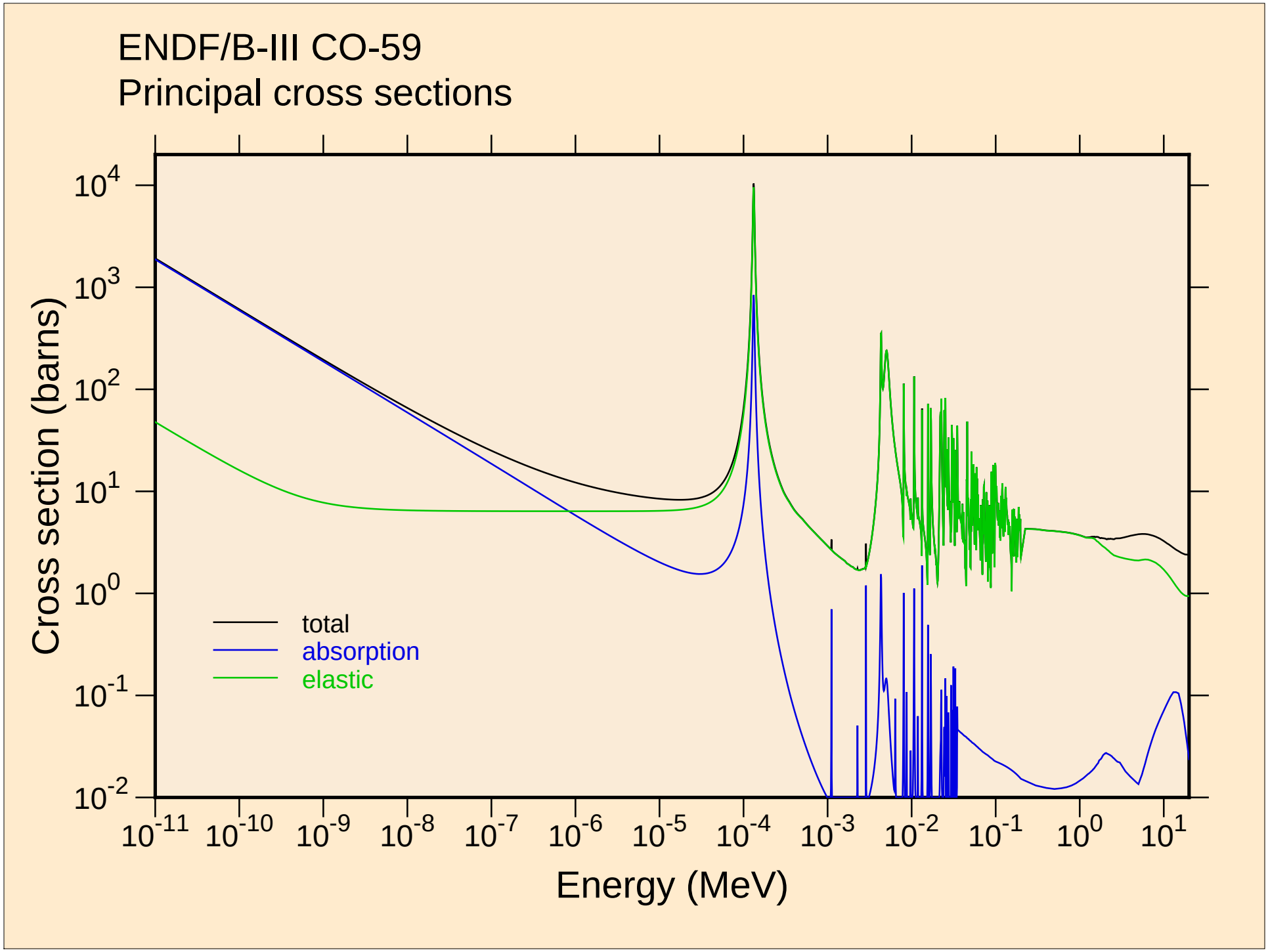
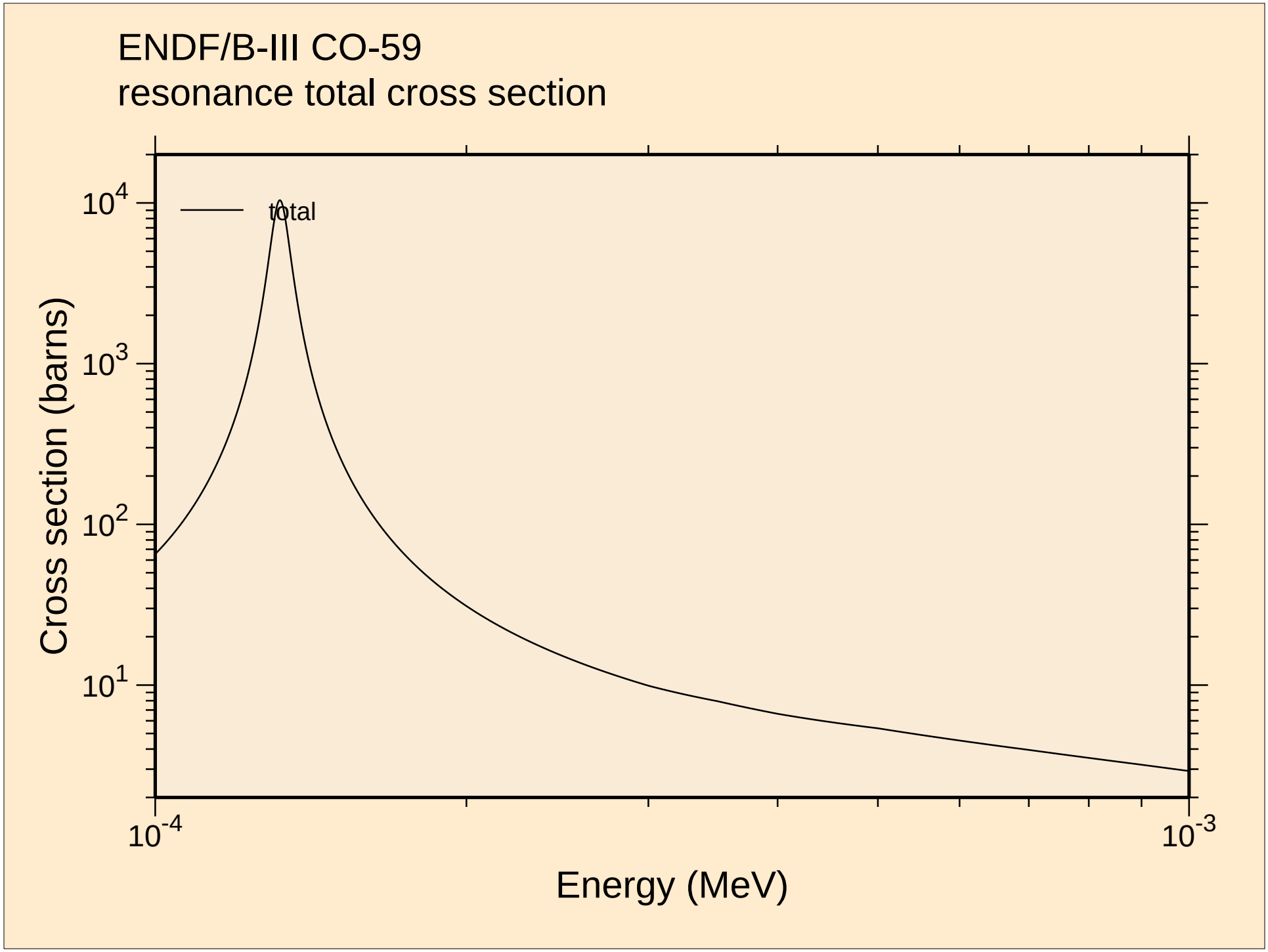
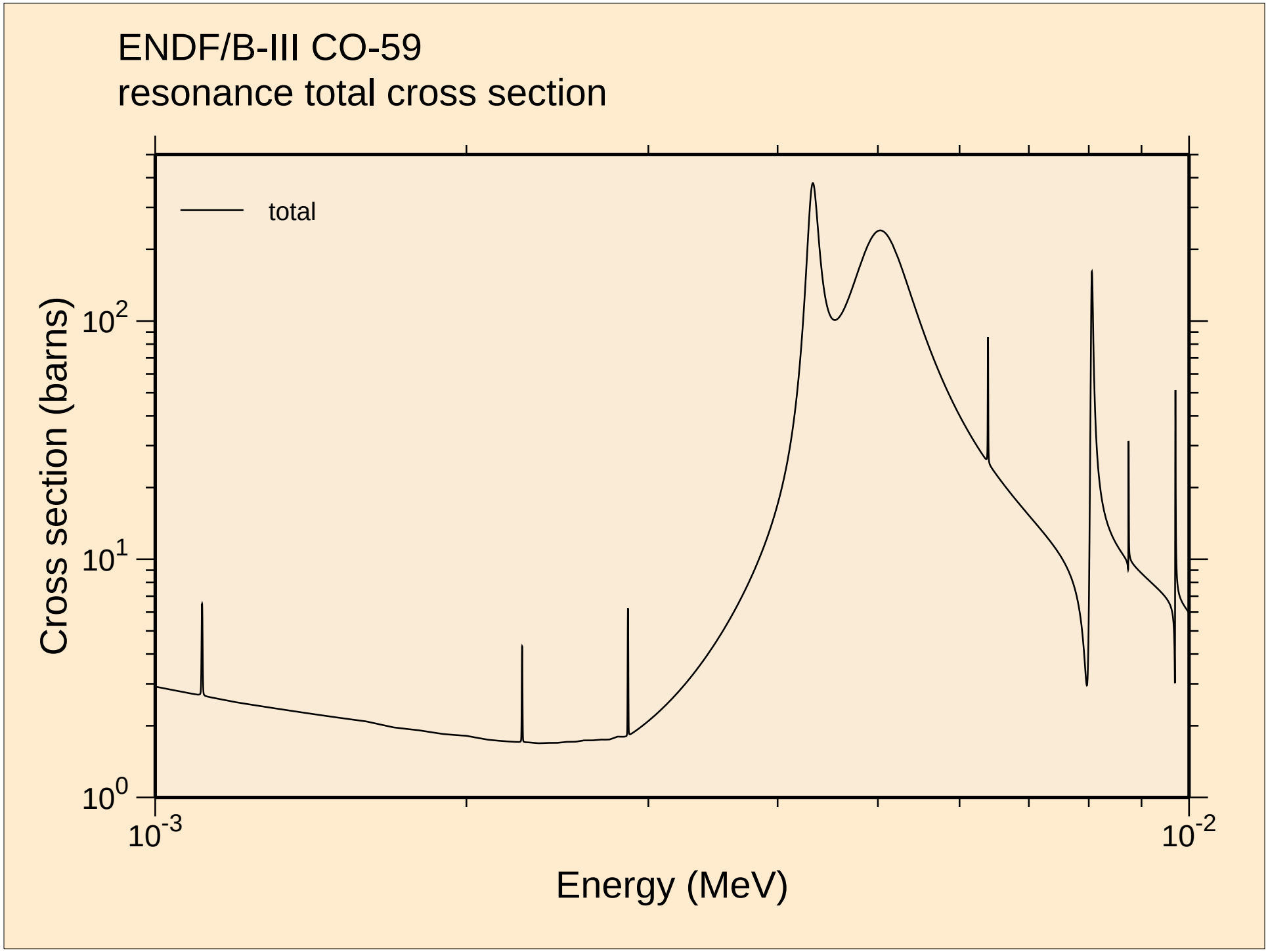
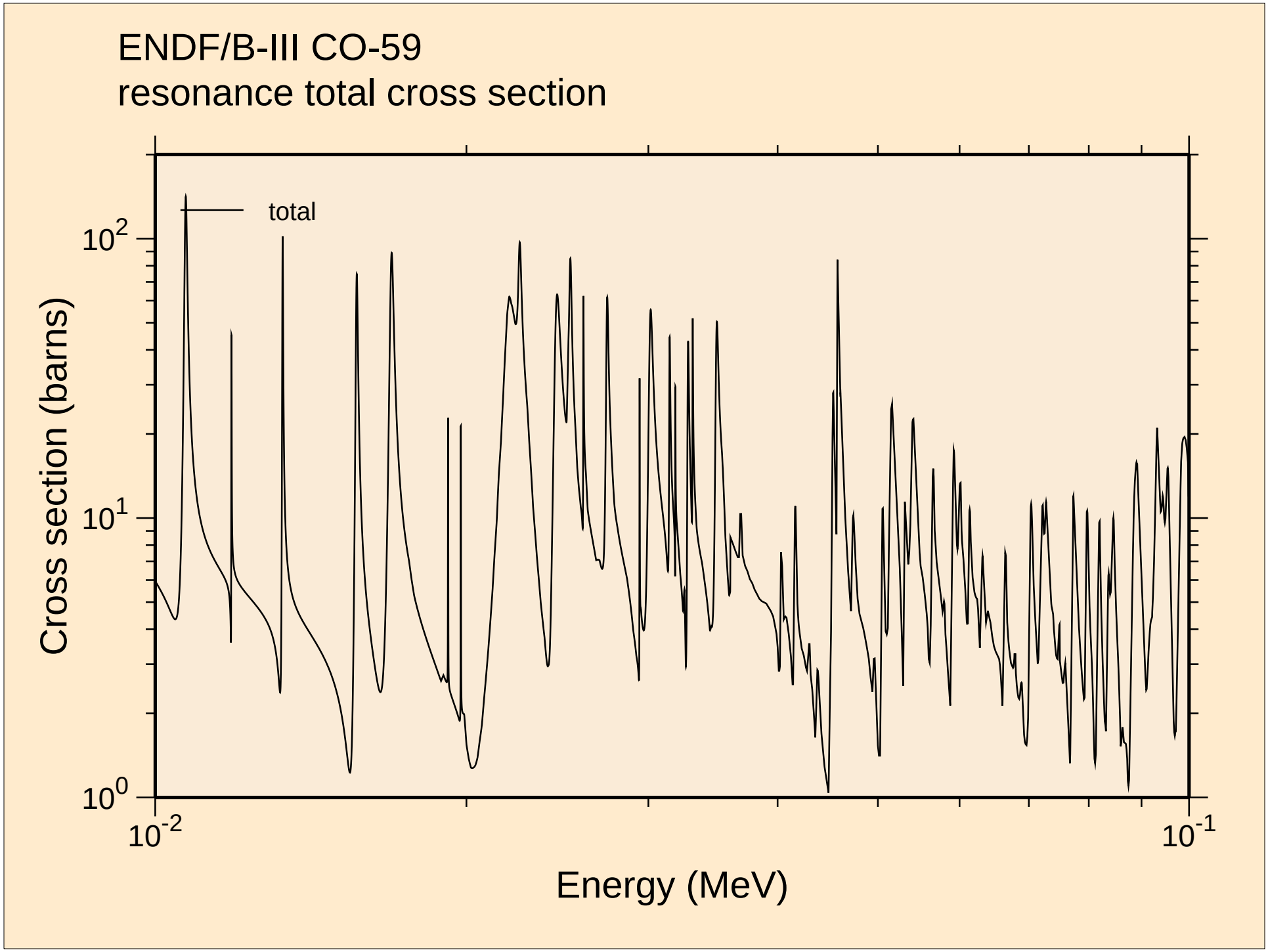
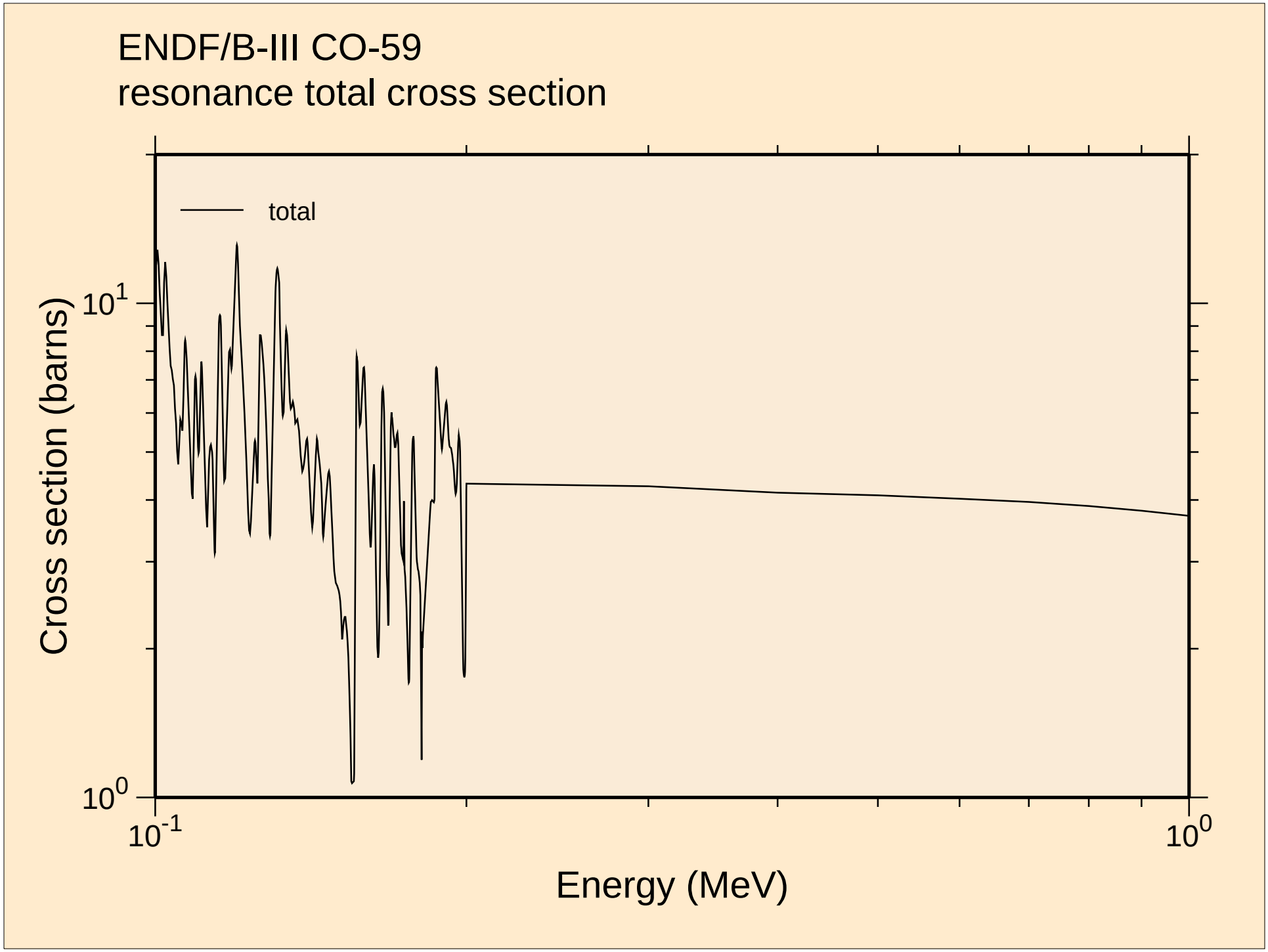
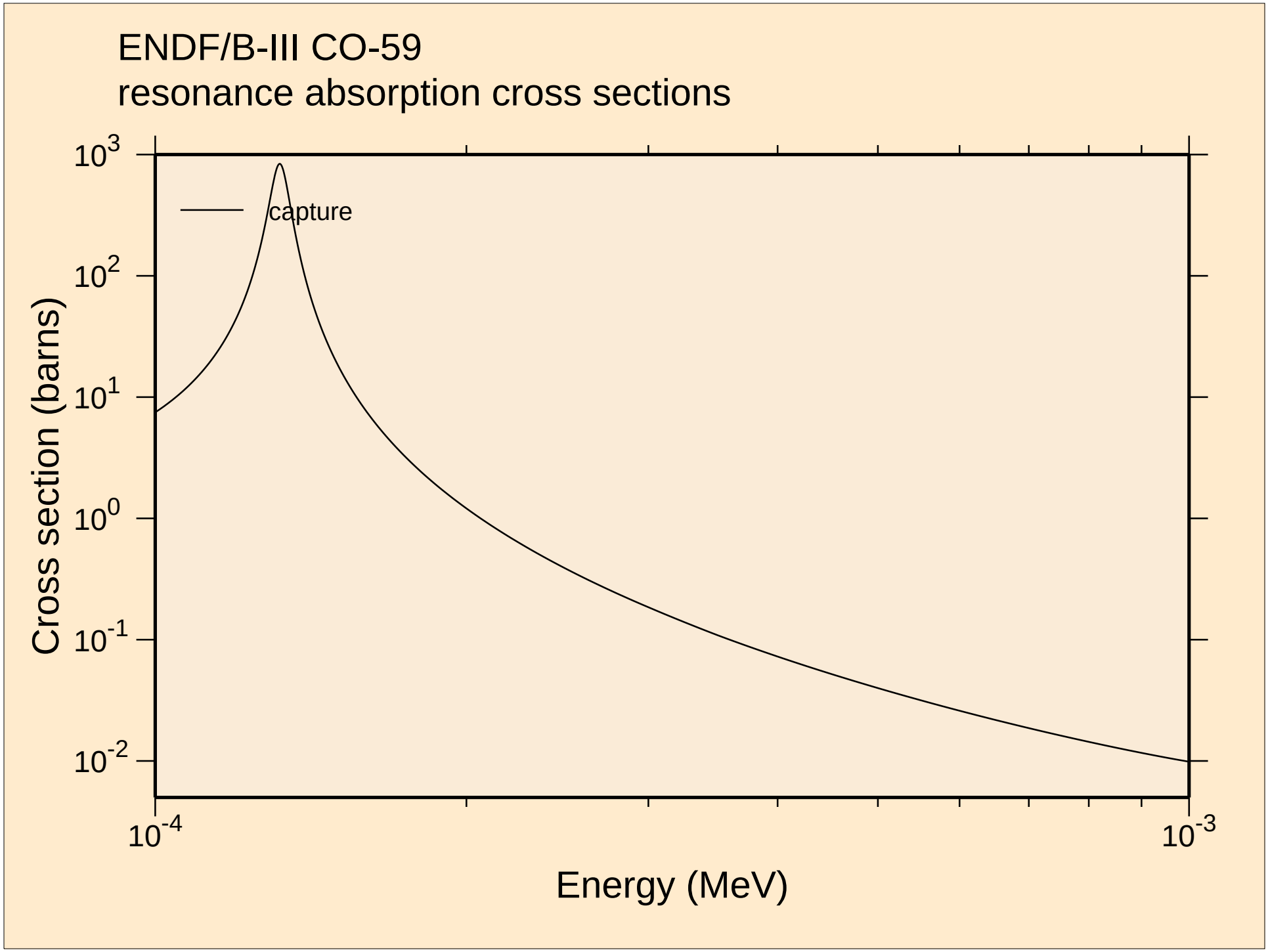

ENDF/B-III CO-59
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
10^{4}
10^{3}
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
10^{-1}
10^{0}
10^{1}


ENDF/B-III CO-59
resonance total cross section
total
Cross section (barns)
10^4
10^3
10^2
10^1
10^{-4}
10^{-3}
Energy (MeV)

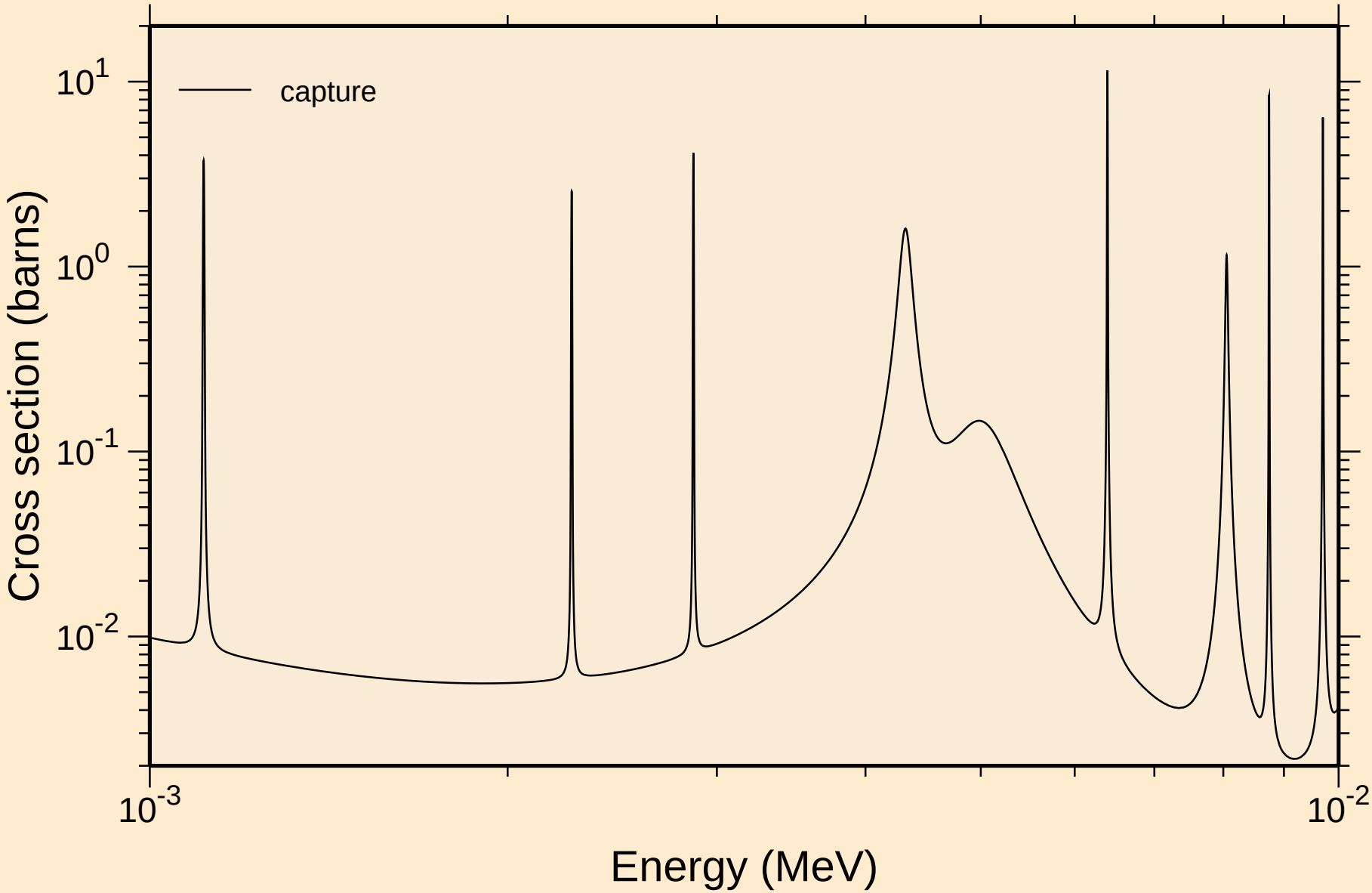

ENDF/B-III CO-59
resonance total cross section
total
Cross section (barns)
10^2
10^1
10^0
10^{-3}
10^{-2}
Energy (MeV)


ENDF/B-III CO-59
resonance total cross section
total
Cross section (barns)
10^2
10^1
10^0
10^{-2}
10^{-1}
Energy (MeV)

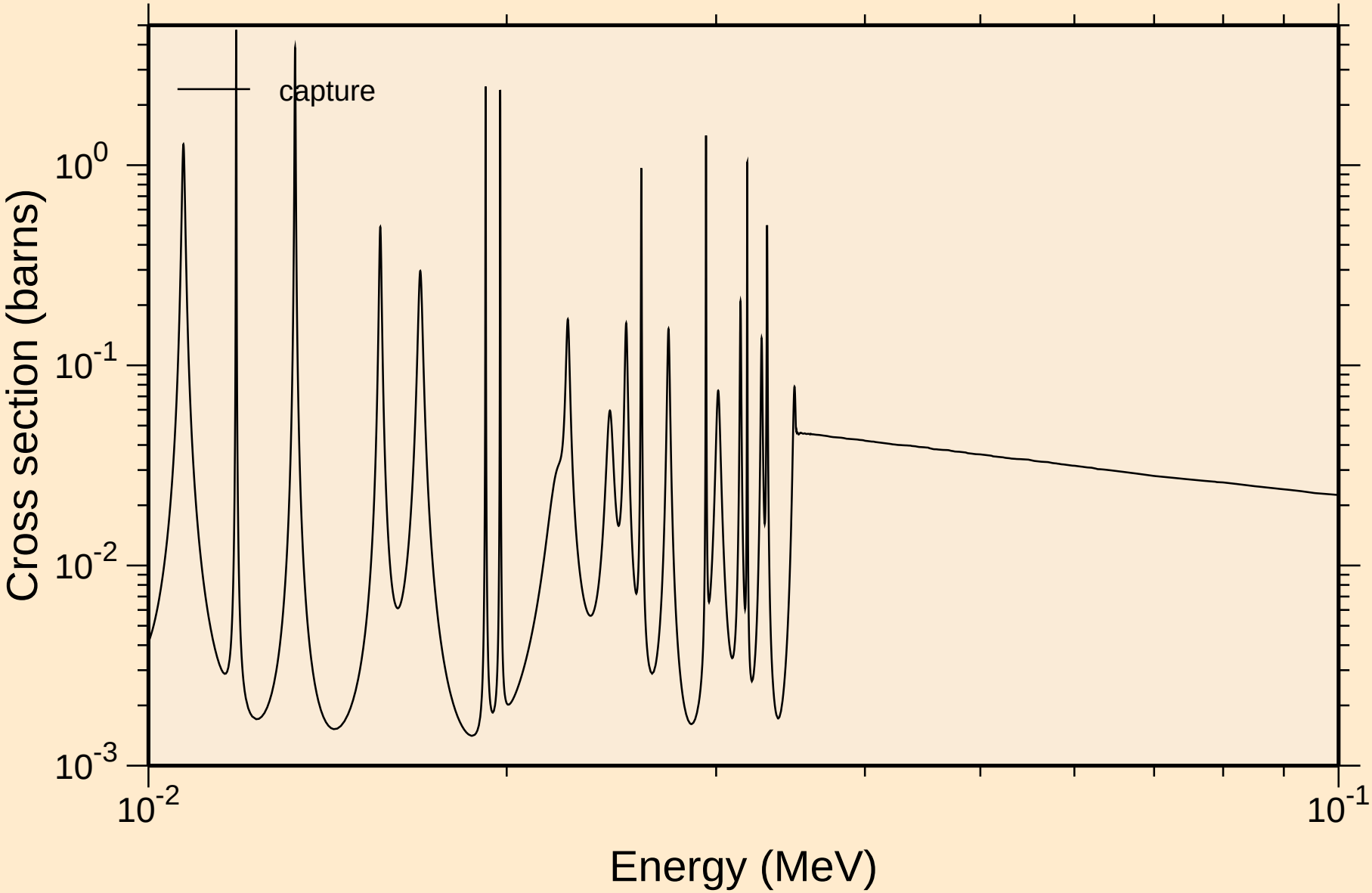

ENDF/B-III CO-59
resonance total cross section
total
Cross section (barns)
10^1
10^0
10^{-1}
10^0
Energy (MeV)

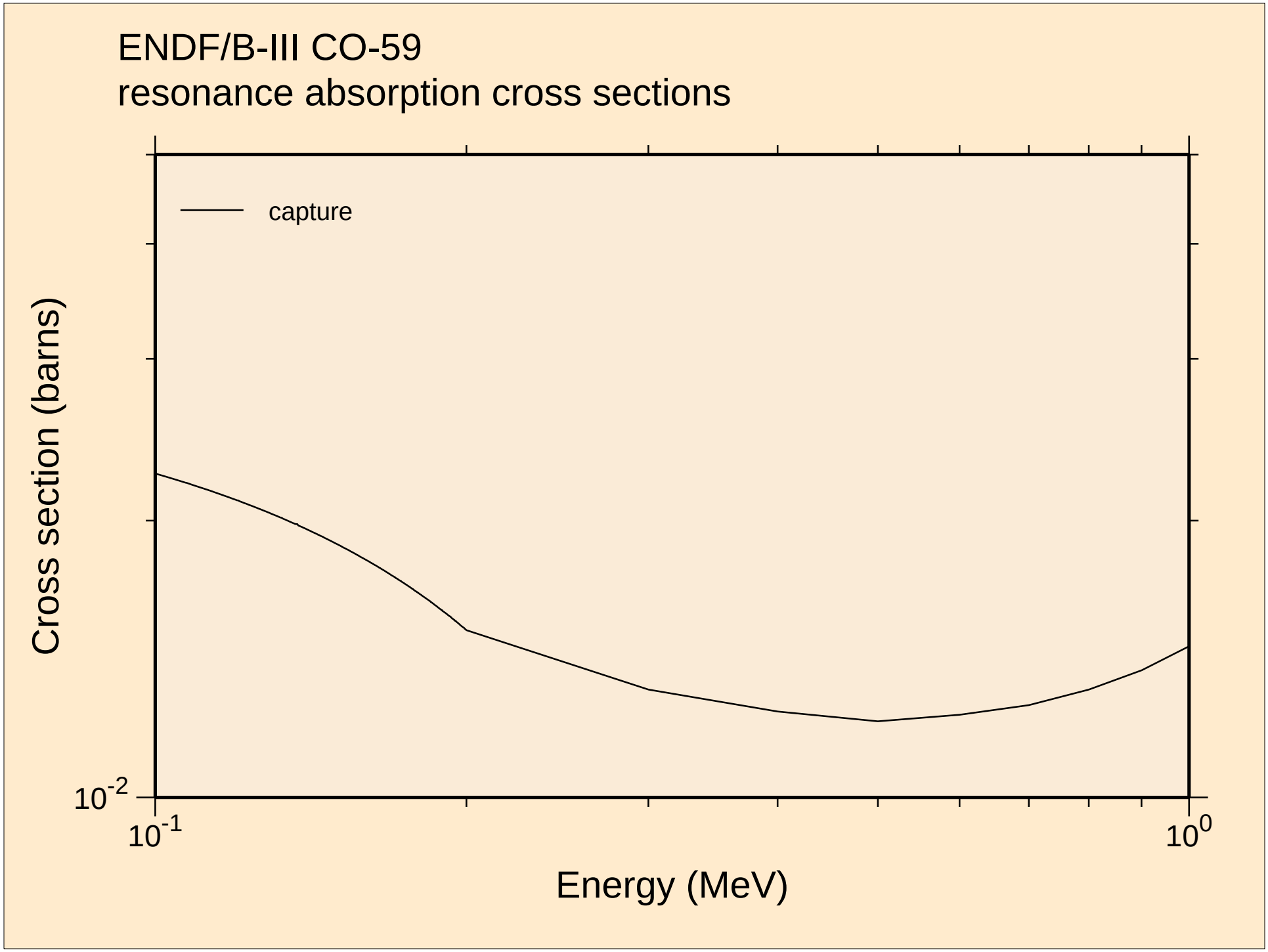

ENDF/B-III CO-59
resonance absorption cross sections
capture
Cross section (barns)
10^{3}
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-4}
10^{-3}
Energy (MeV)

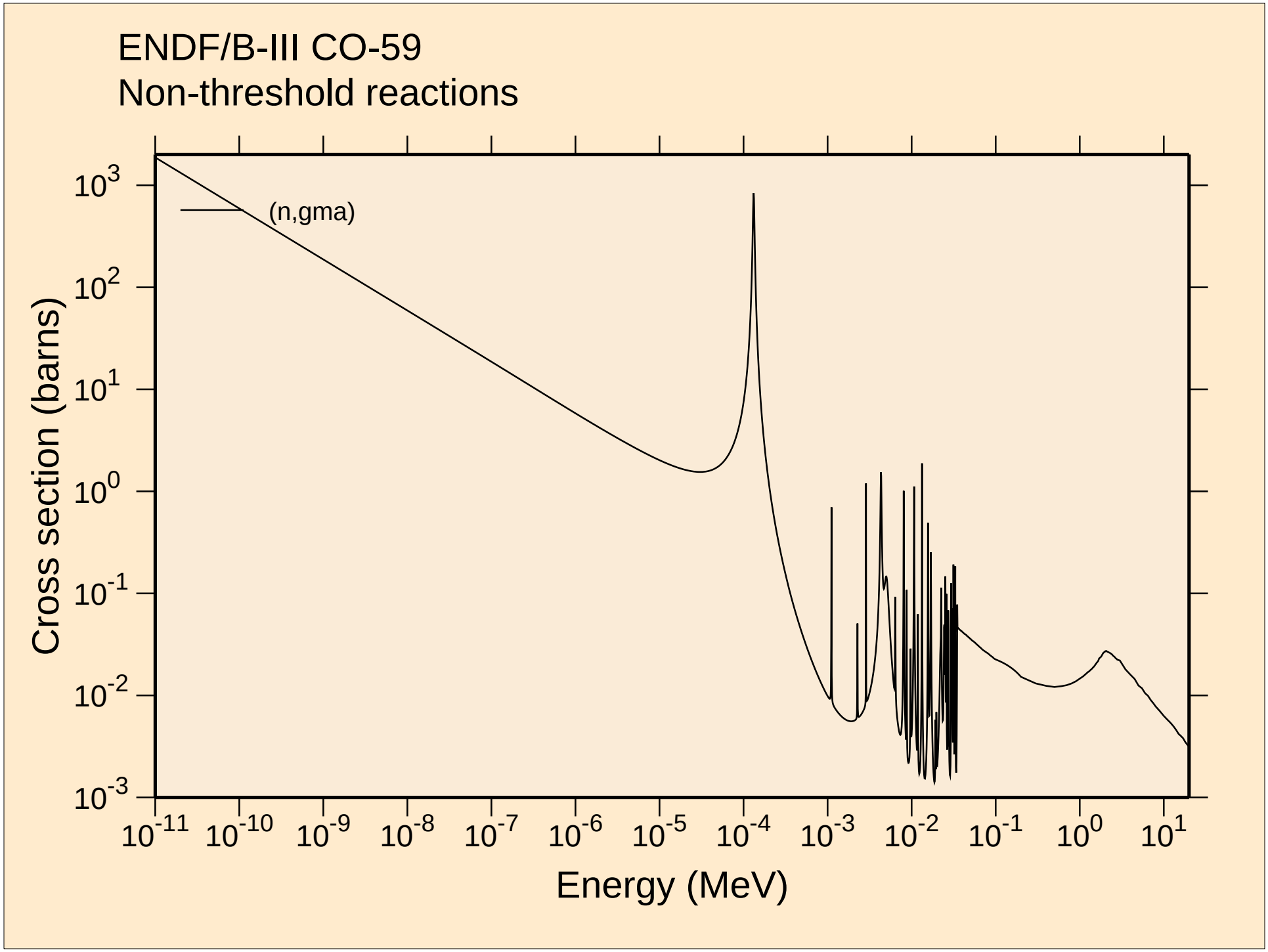
ENDF/B-III CO-59
resonance absorption cross sections

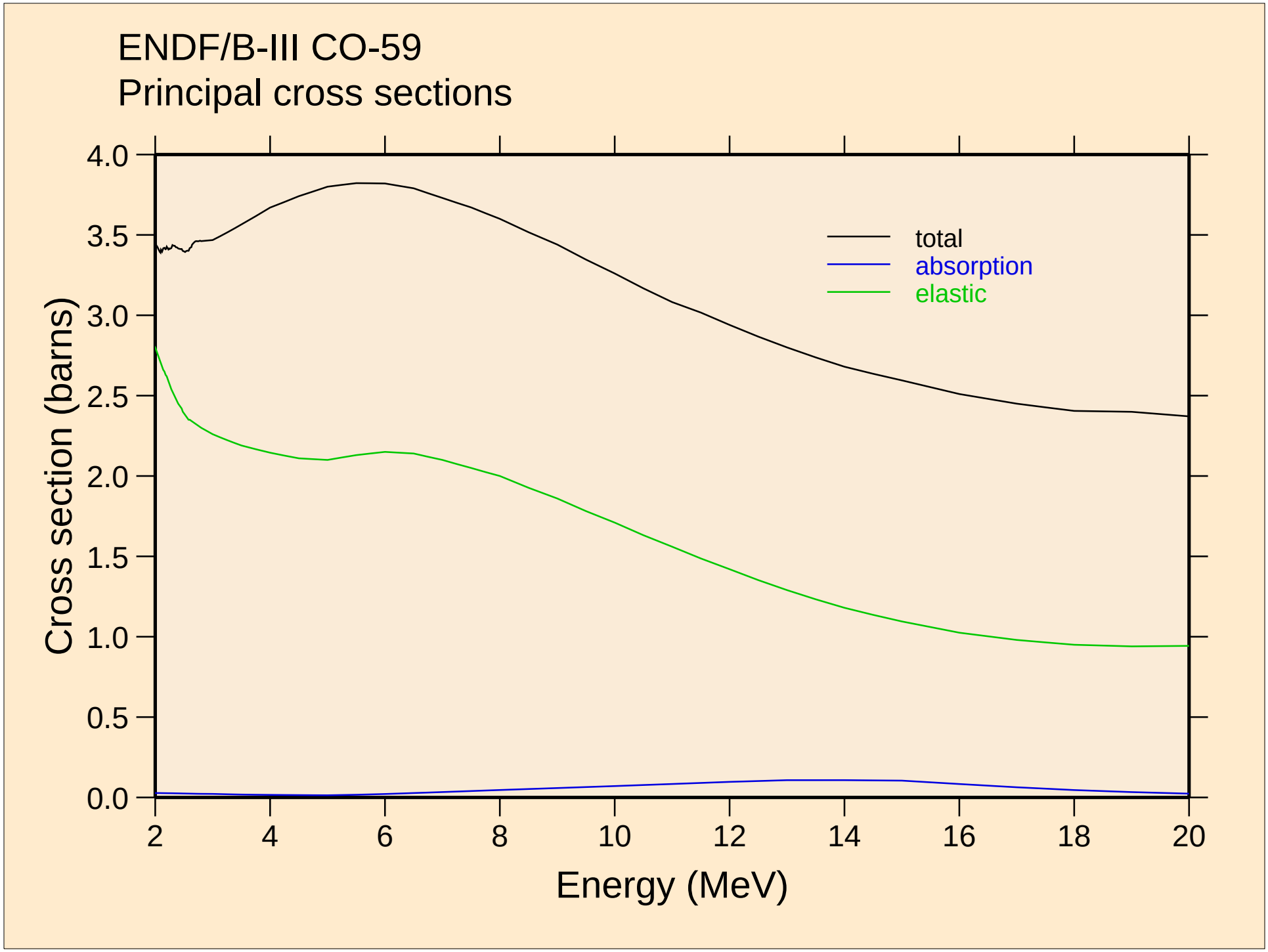


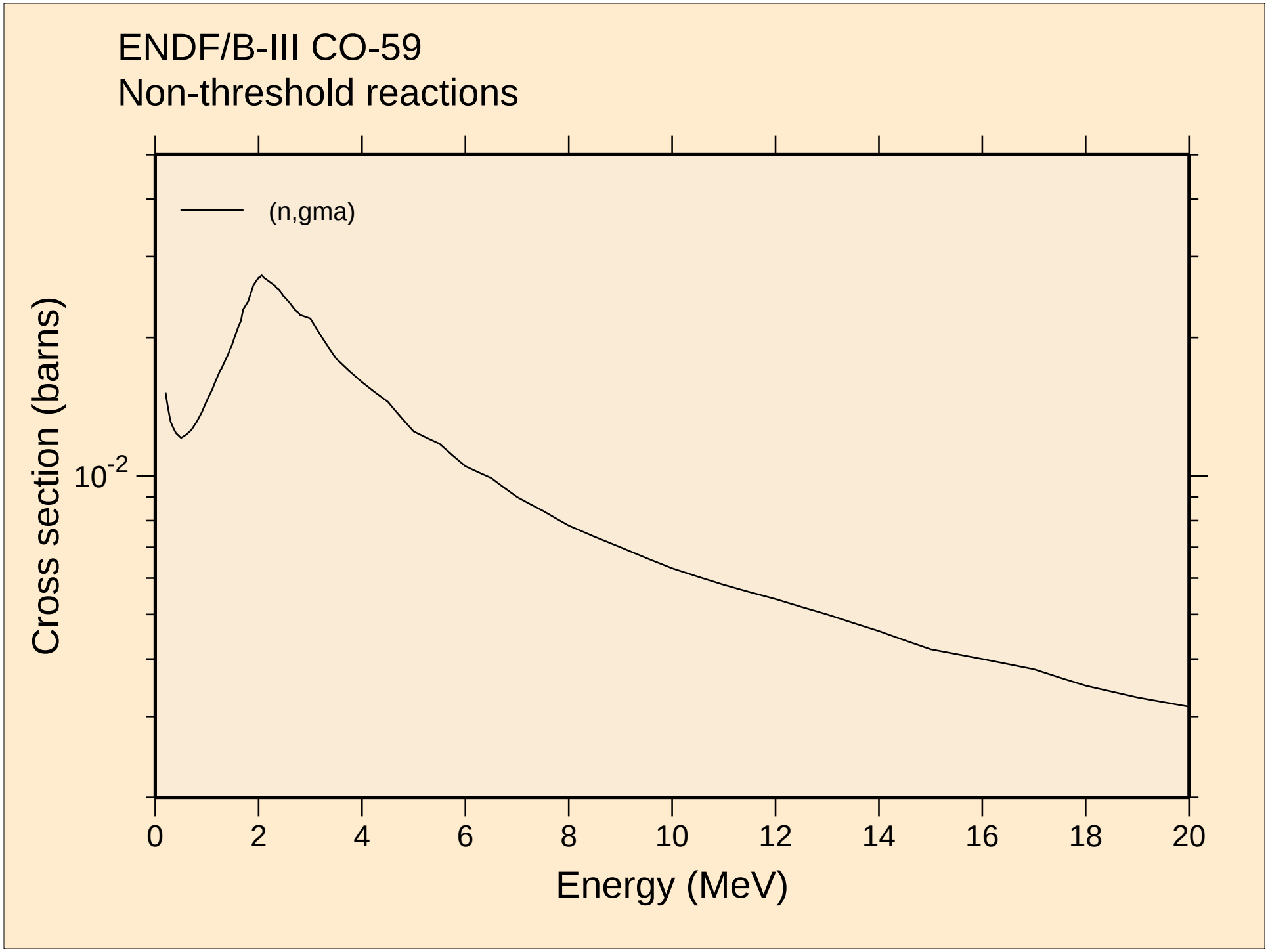
ENDF/B-III CO-59
resonance absorption cross sections

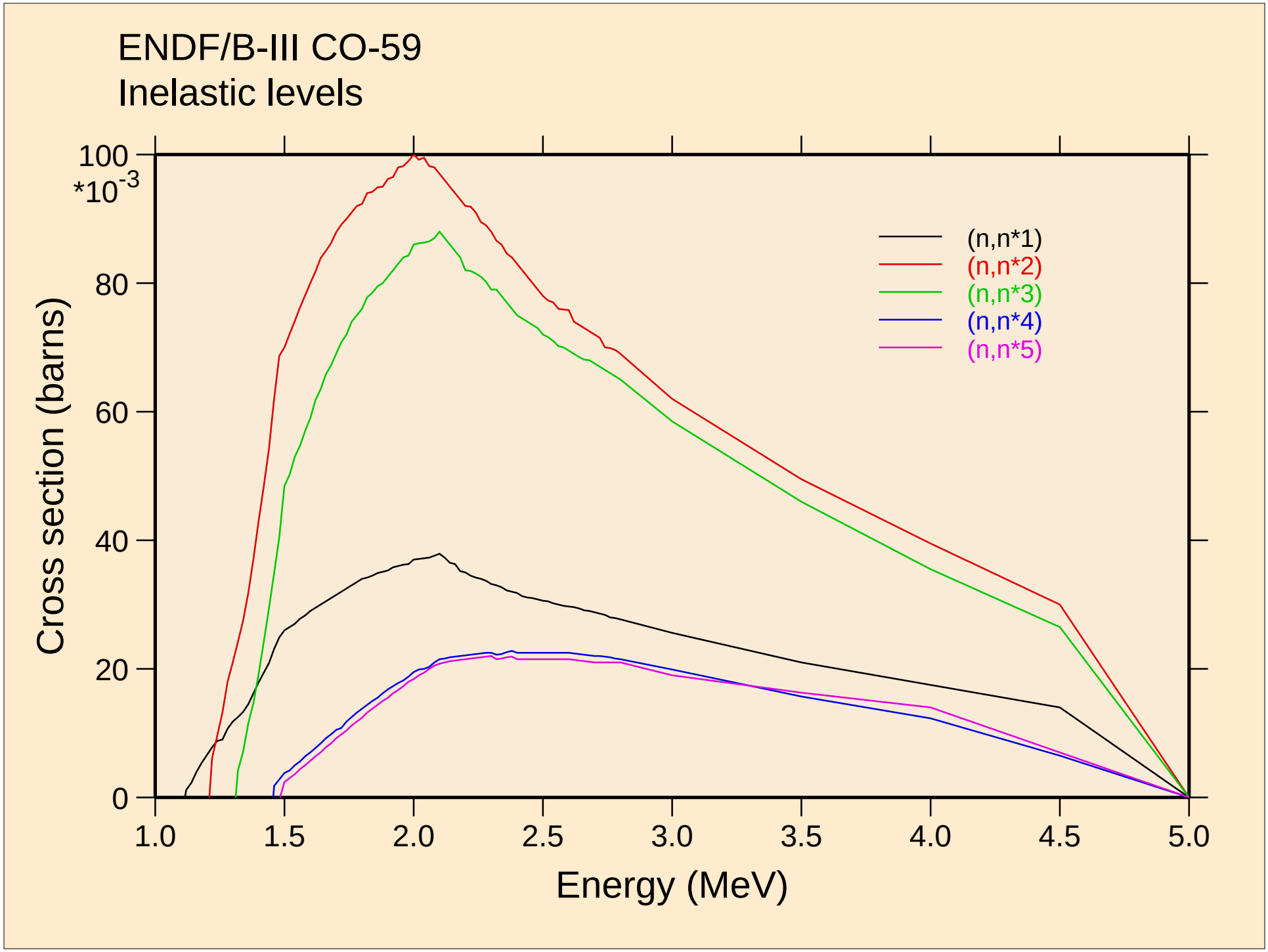


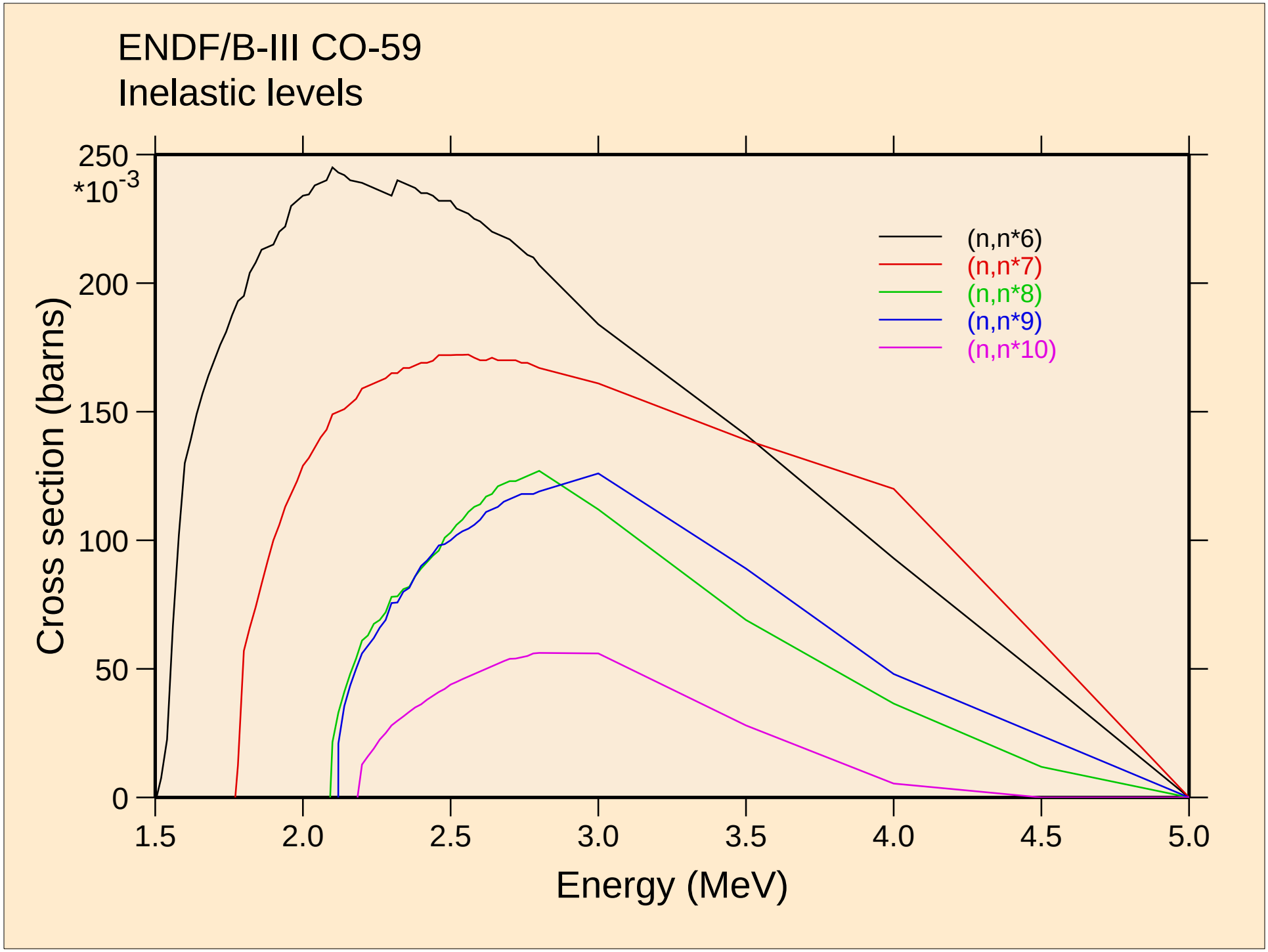

ENDF/B-III CO-59
resonance absorption cross sections
capture
Cross section (barns)
10^{-2}
10^{-1}
10^{0}
Energy (MeV)

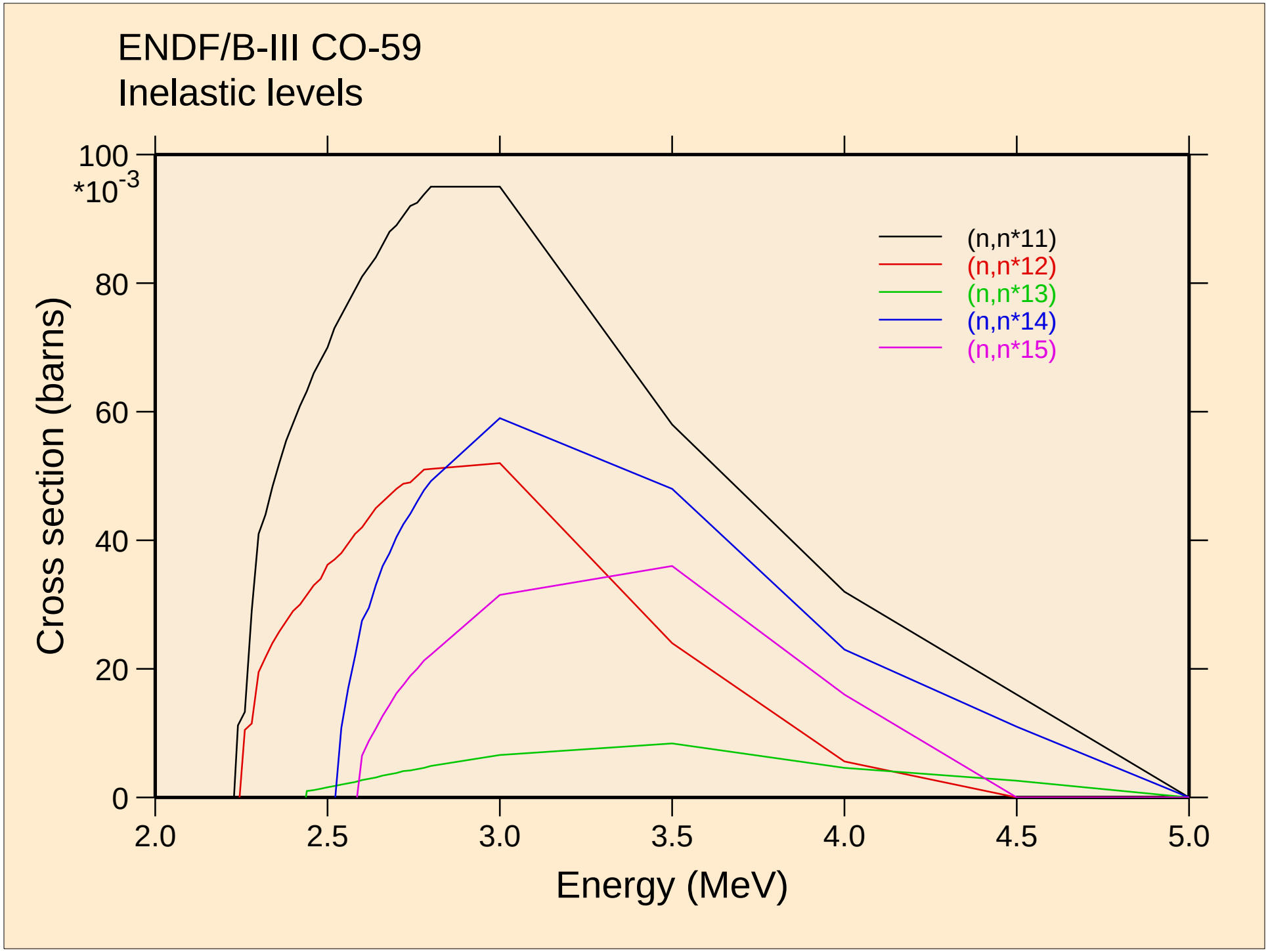

ENDF/B-III CO-59
Non-threshold reactions
(n,gma)
Cross section (barns)
Energy (MeV)
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-11
10^-10
10^-9
10^-8
10^-7
10^-6
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1

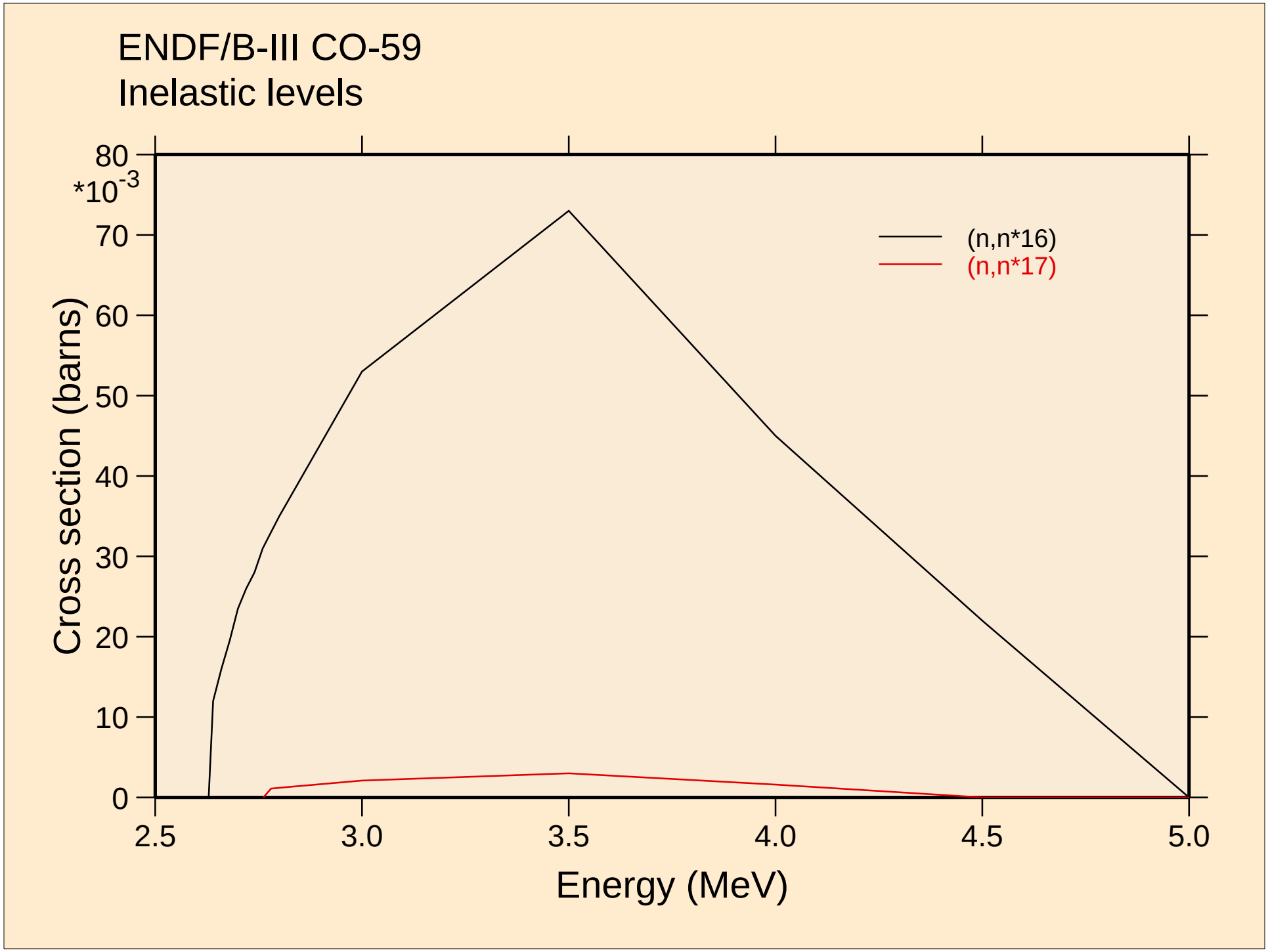

ENDF/B-III CO-59
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2
4
6
8
10
12
14
16
18
20

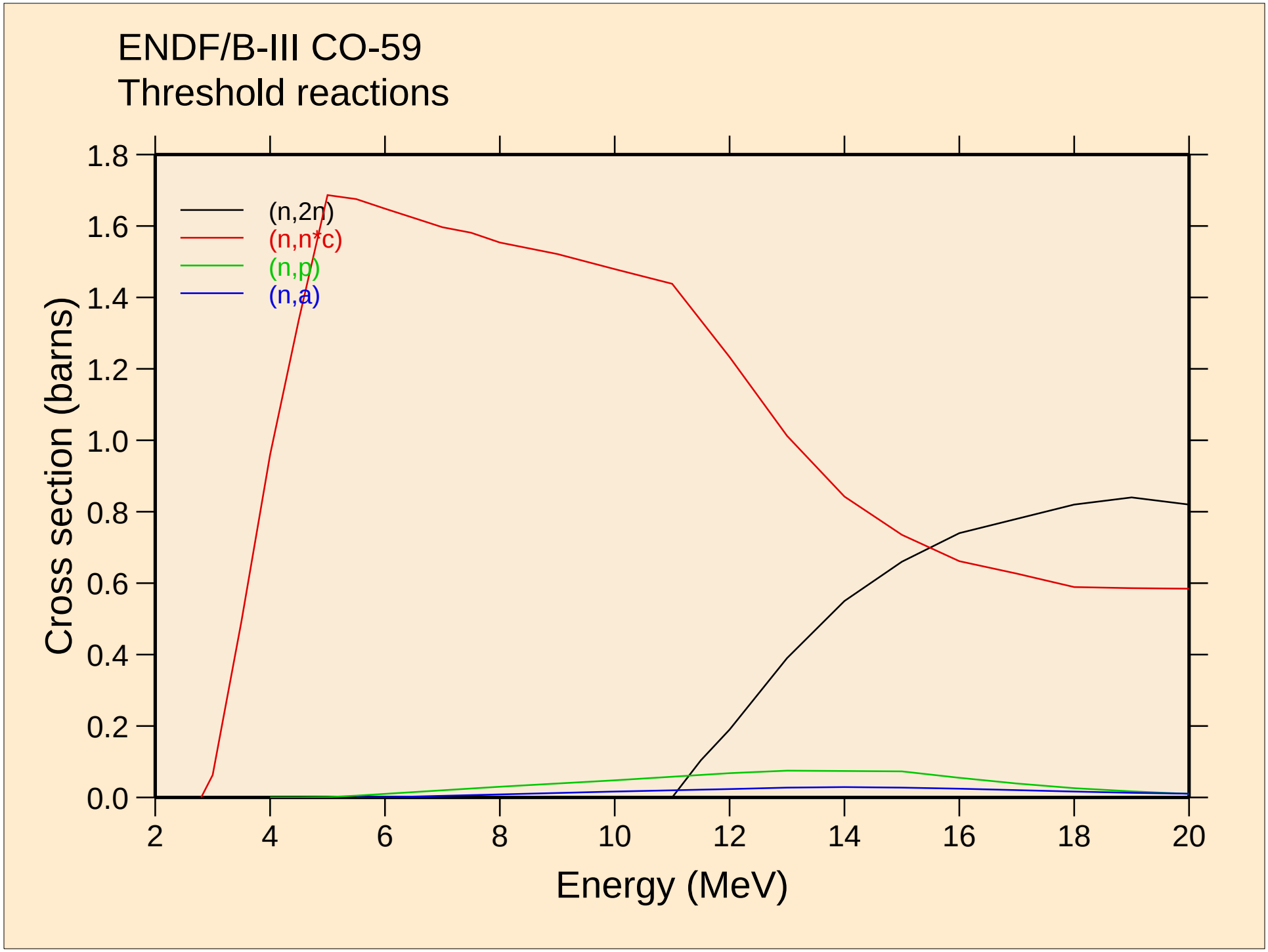

ENDF/B-III CO-59
Non-threshold reactions
(n,gma)
Cross section (barns)
10-2
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

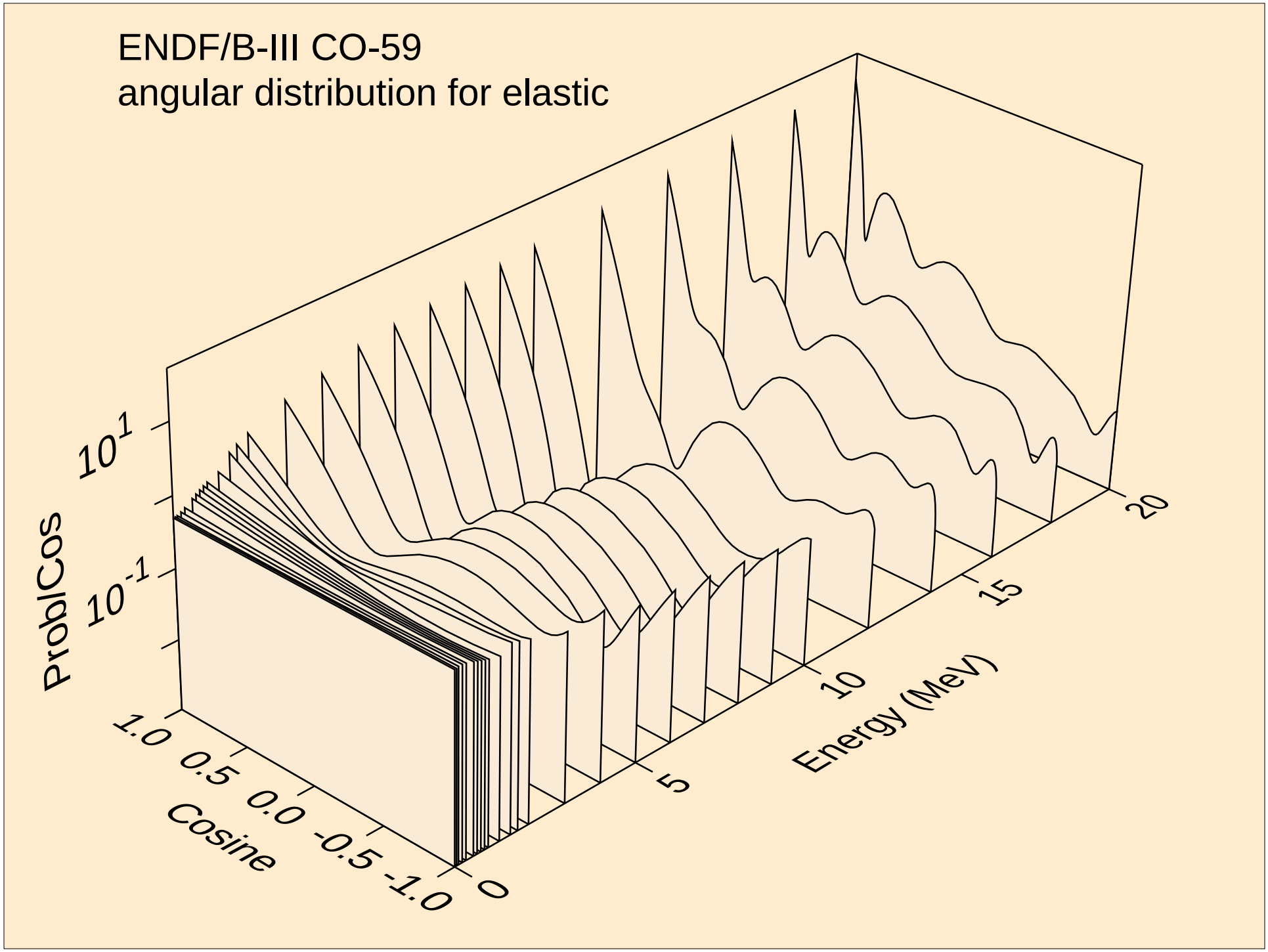

ENDF/B-III CO-59
Inelastic levels
100
*10-3
80
60
40
20
0
Cross section (barns)
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Energy (MeV)
(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)

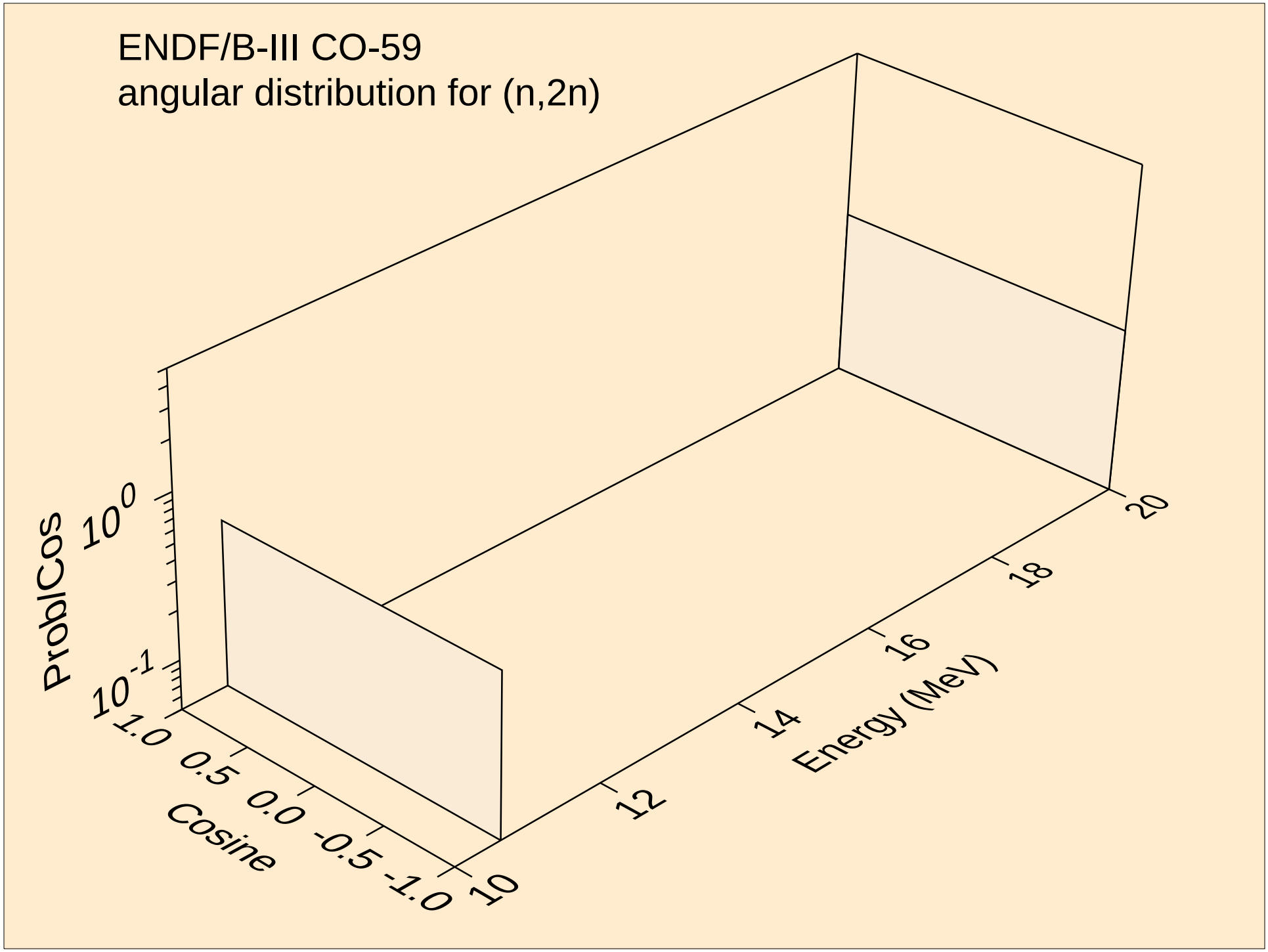

ENDF/B-III CO-59
Inelastic levels
250
*10-3
200
150
100
50
0
Cross section (barns)
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Energy (MeV)
(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)
(n,n*10)

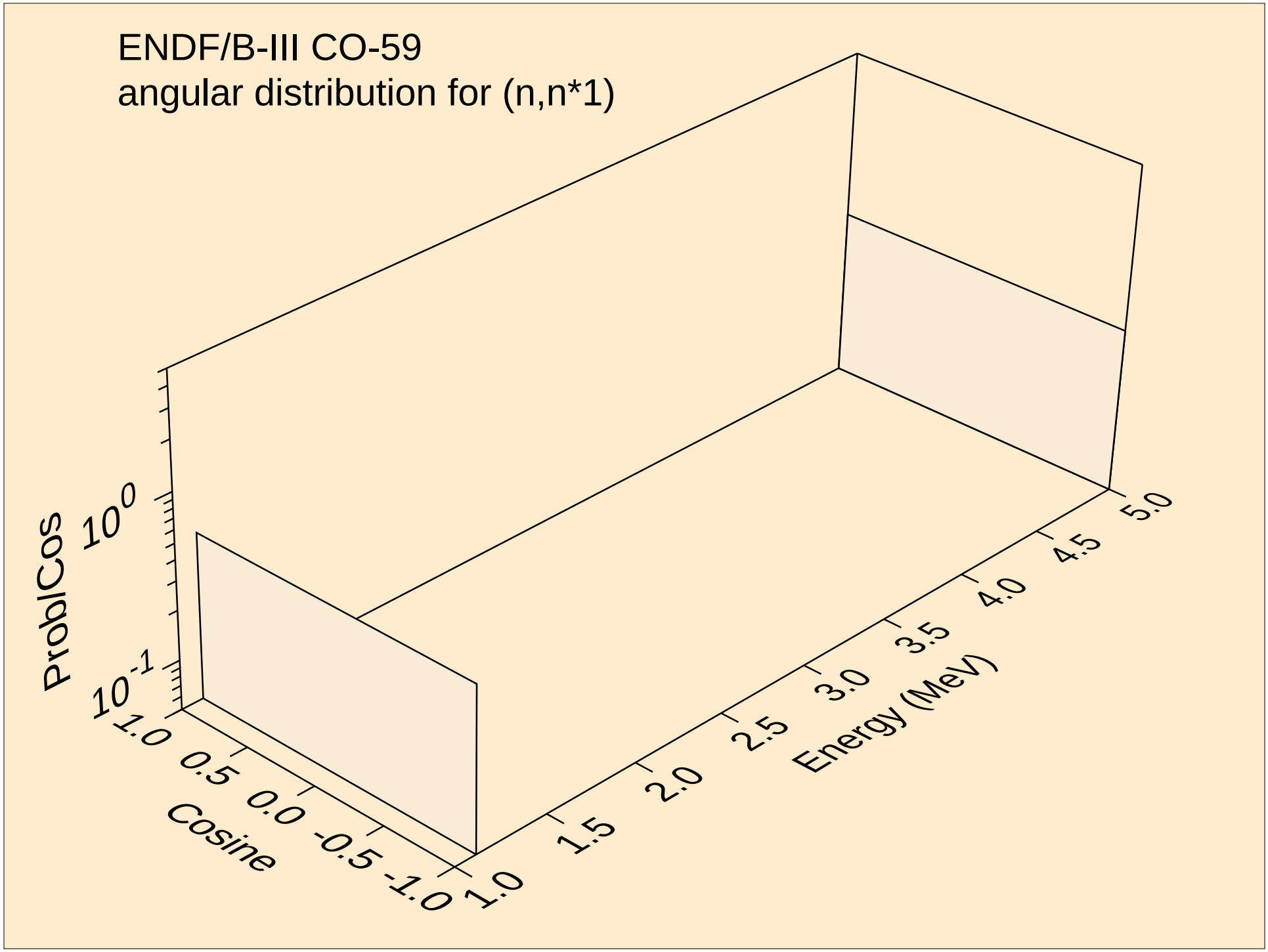

ENDF/B-III CO-59
Inelastic levels
100
*10-3
80
60
40
20
0
Cross section (barns)
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Energy (MeV)
(n,n*11)
(n,n*12)
(n,n*13)
(n,n*14)
(n,n*15)

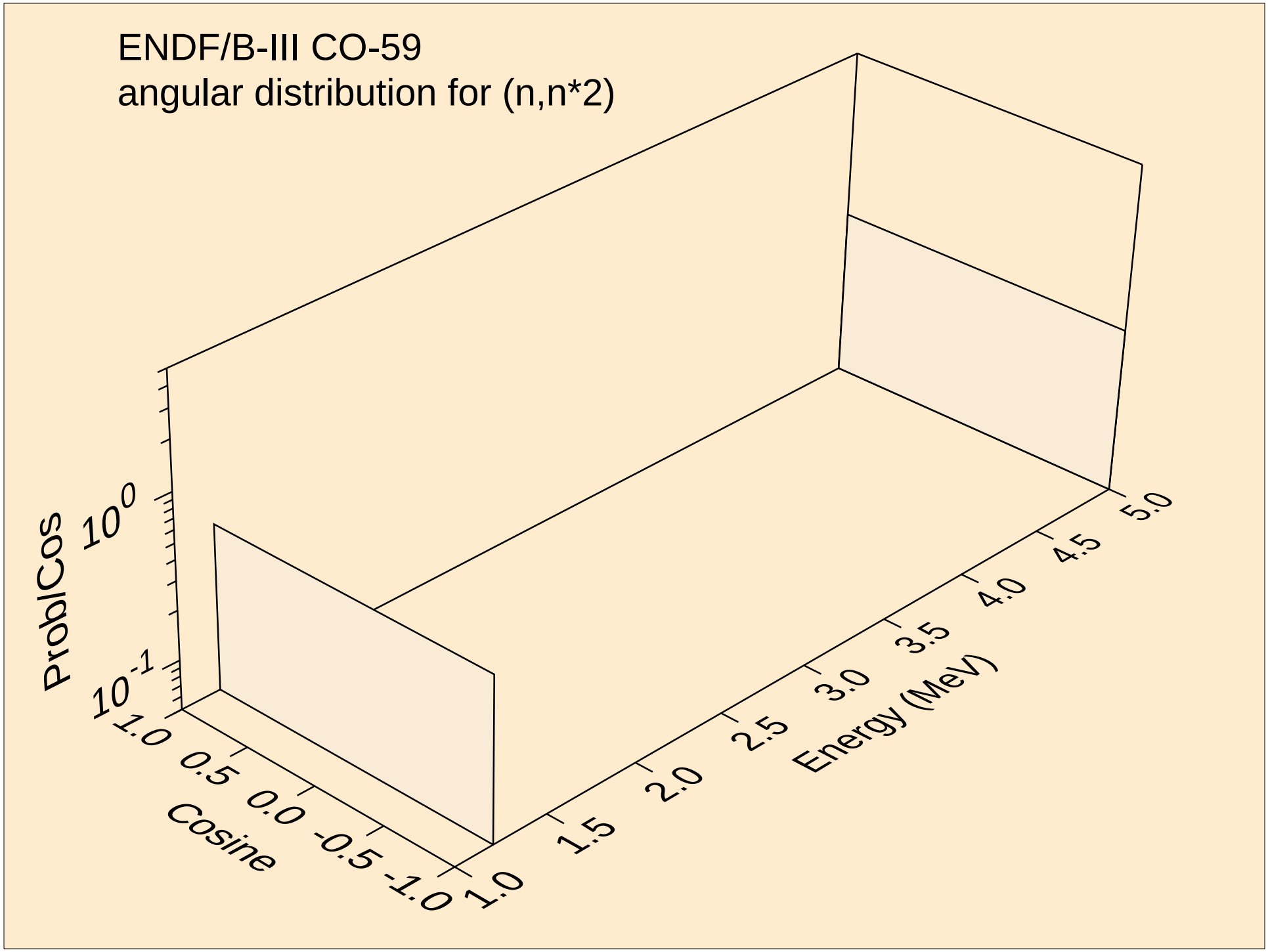

ENDF/B-III CO-59
Inelastic levels
80
*10-3
70
60
50
40
30
20
10
0
Cross section (barns)
2.5
3.0
3.5
4.0
4.5
5.0
Energy (MeV)
(n,n*16)
(n,n*17)

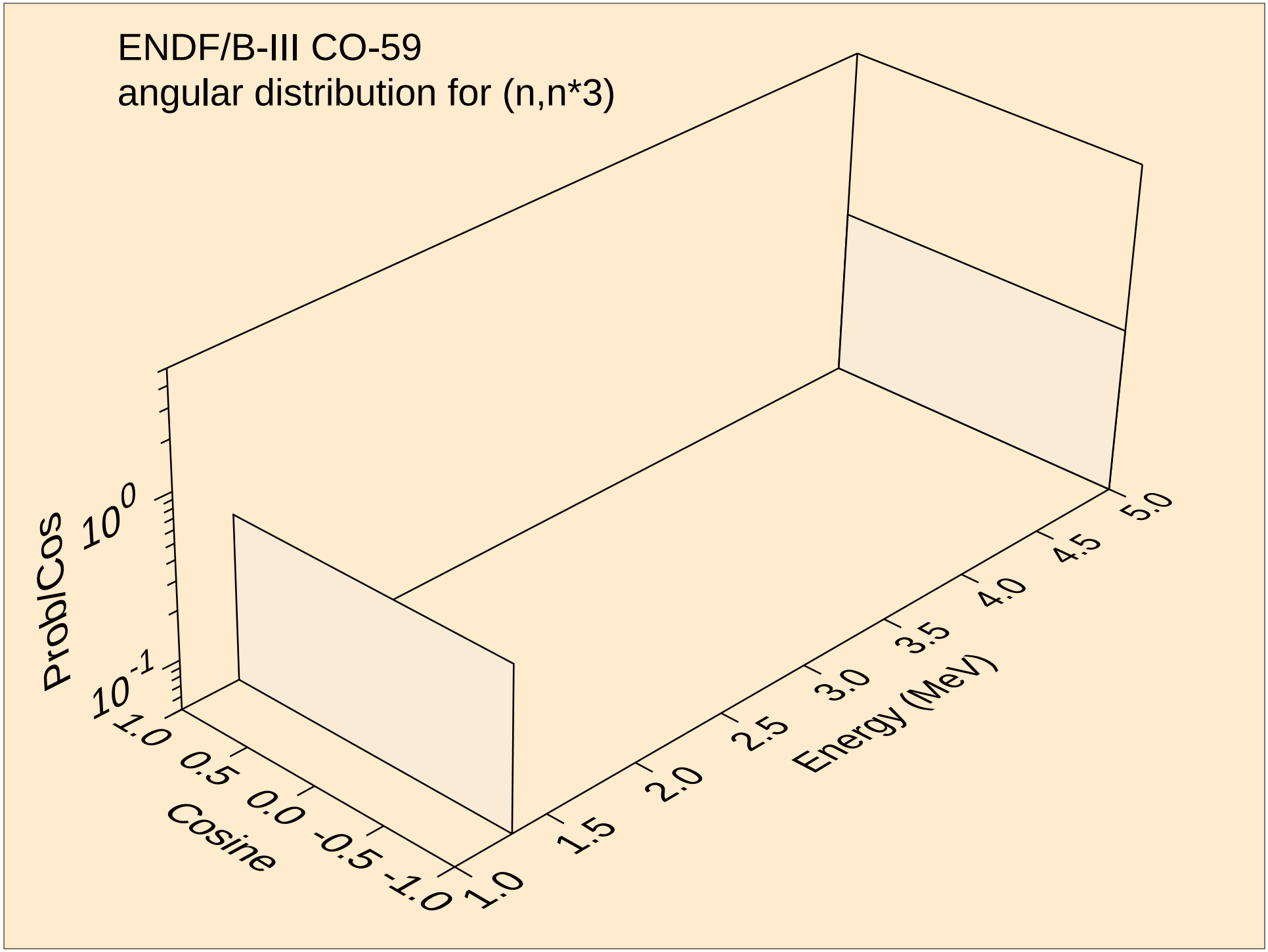

ENDF/B-III CO-59
Threshold reactions
(n,2n)
(n,n*c)
(n,p)
(n,a)
Cross section (barns)
Energy (MeV)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2
4
6
8
10
12
14
16
18
20

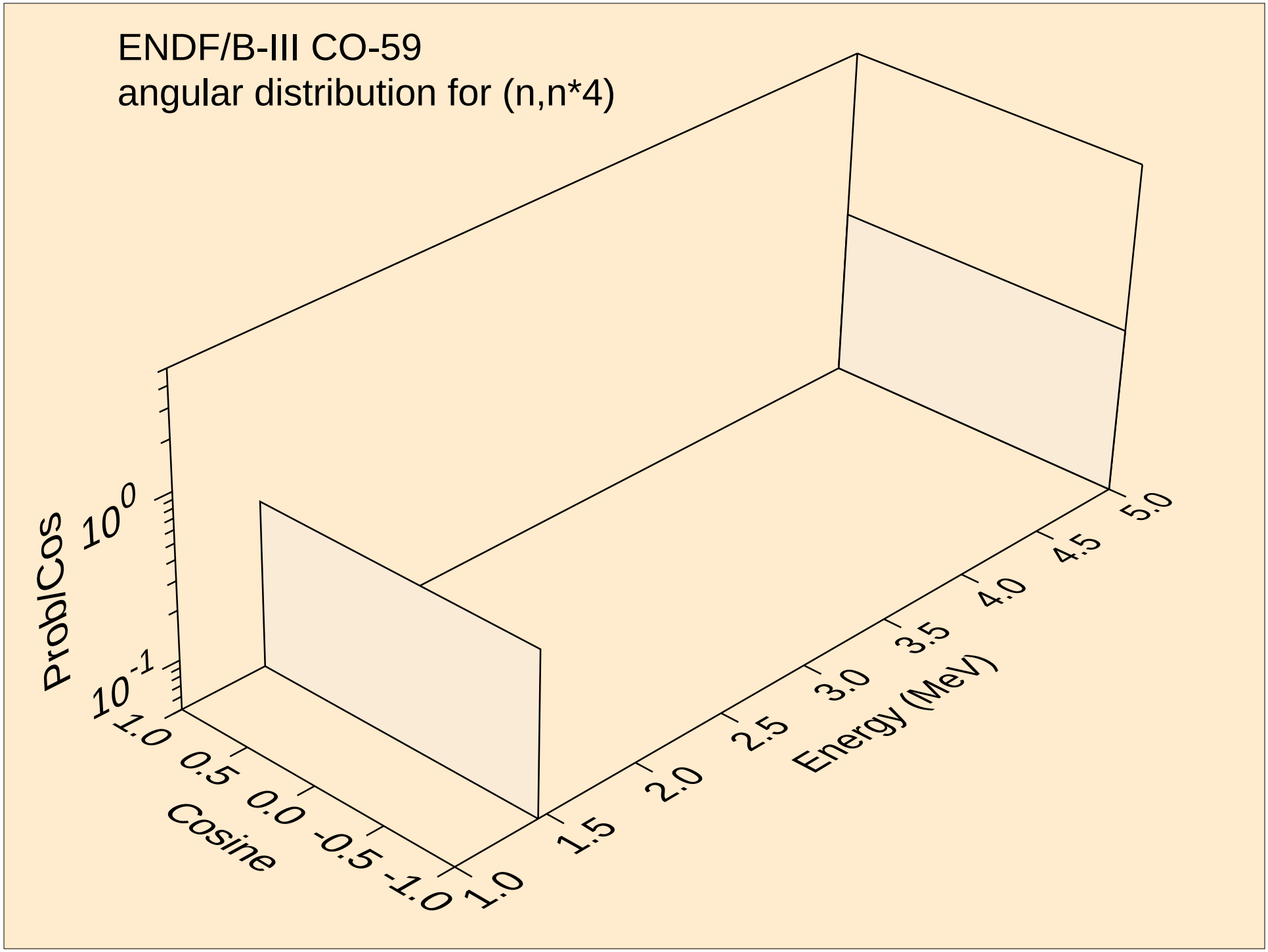

ENDF/B-III CO-59
angular distribution for elastic
ProbCos
10^{1}
10^{-1}
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
0
5
10
15
20

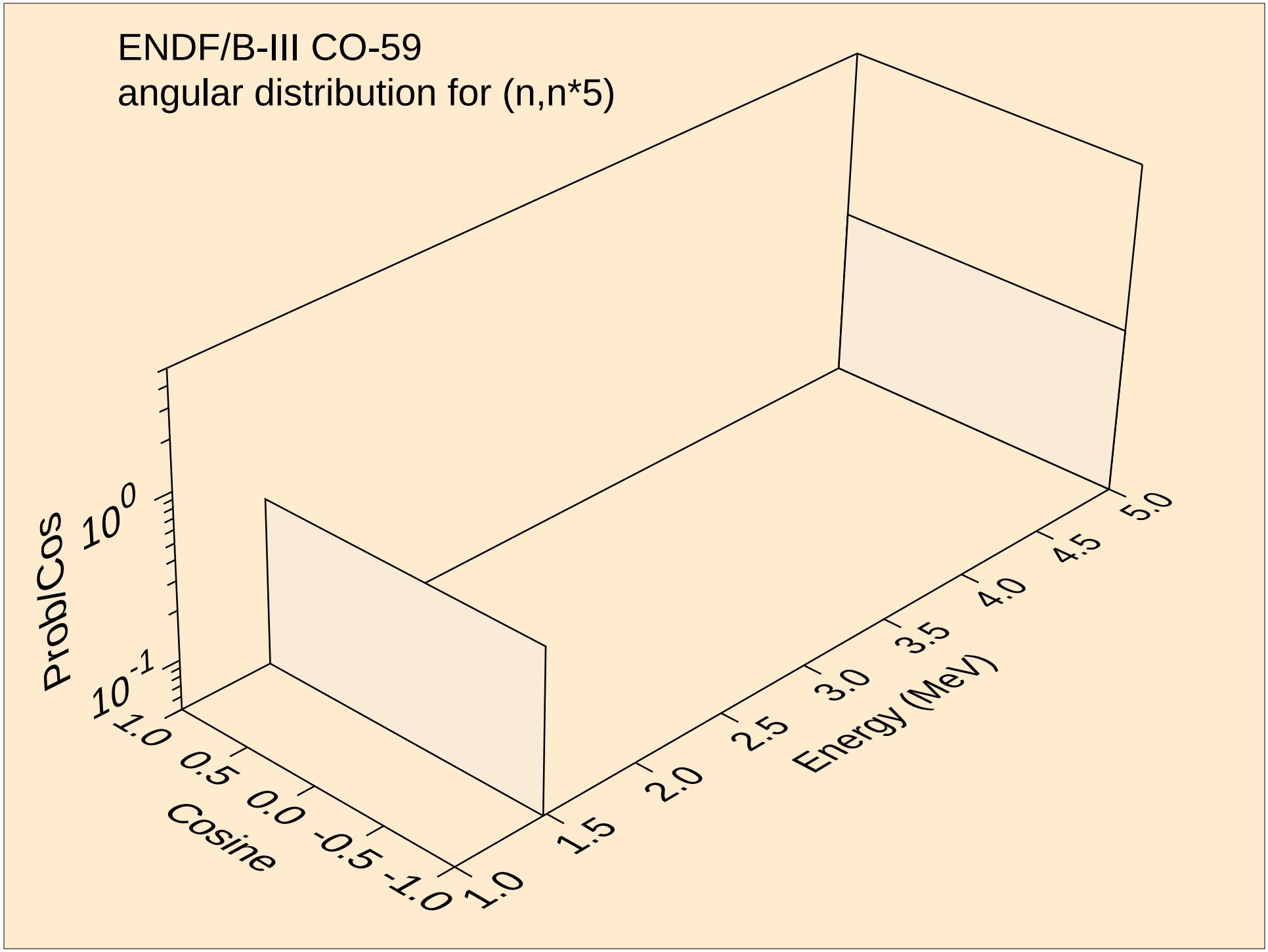

ENDF/B-III CO-59
angular distribution for (n,2n)
ProbCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
10
12
14
16
18
20
Energy (MeV)

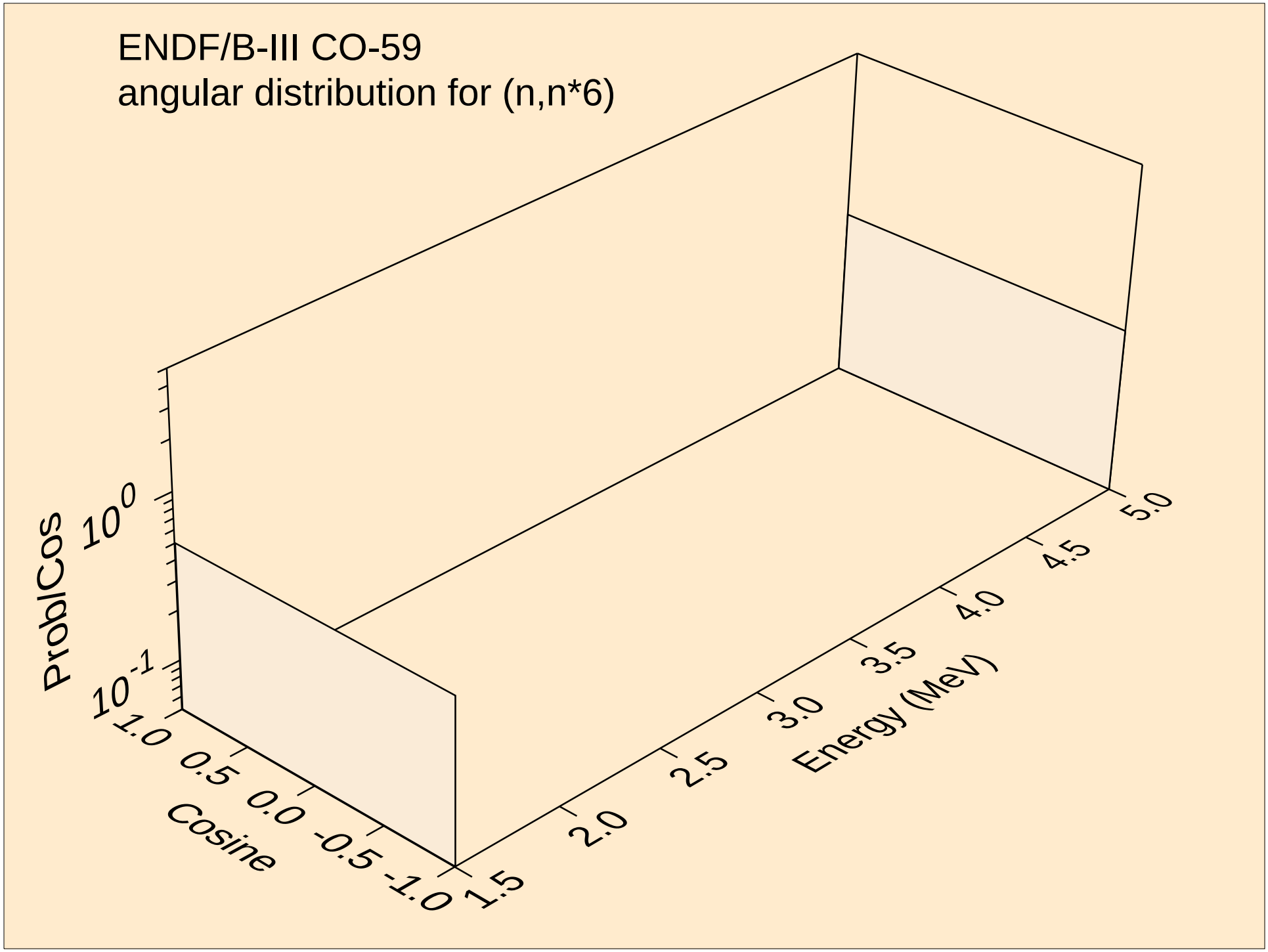

ENDF/B-III CO-59
angular distribution for (n,n*1)
Prob/Cos
10^0
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Energy (MeV)

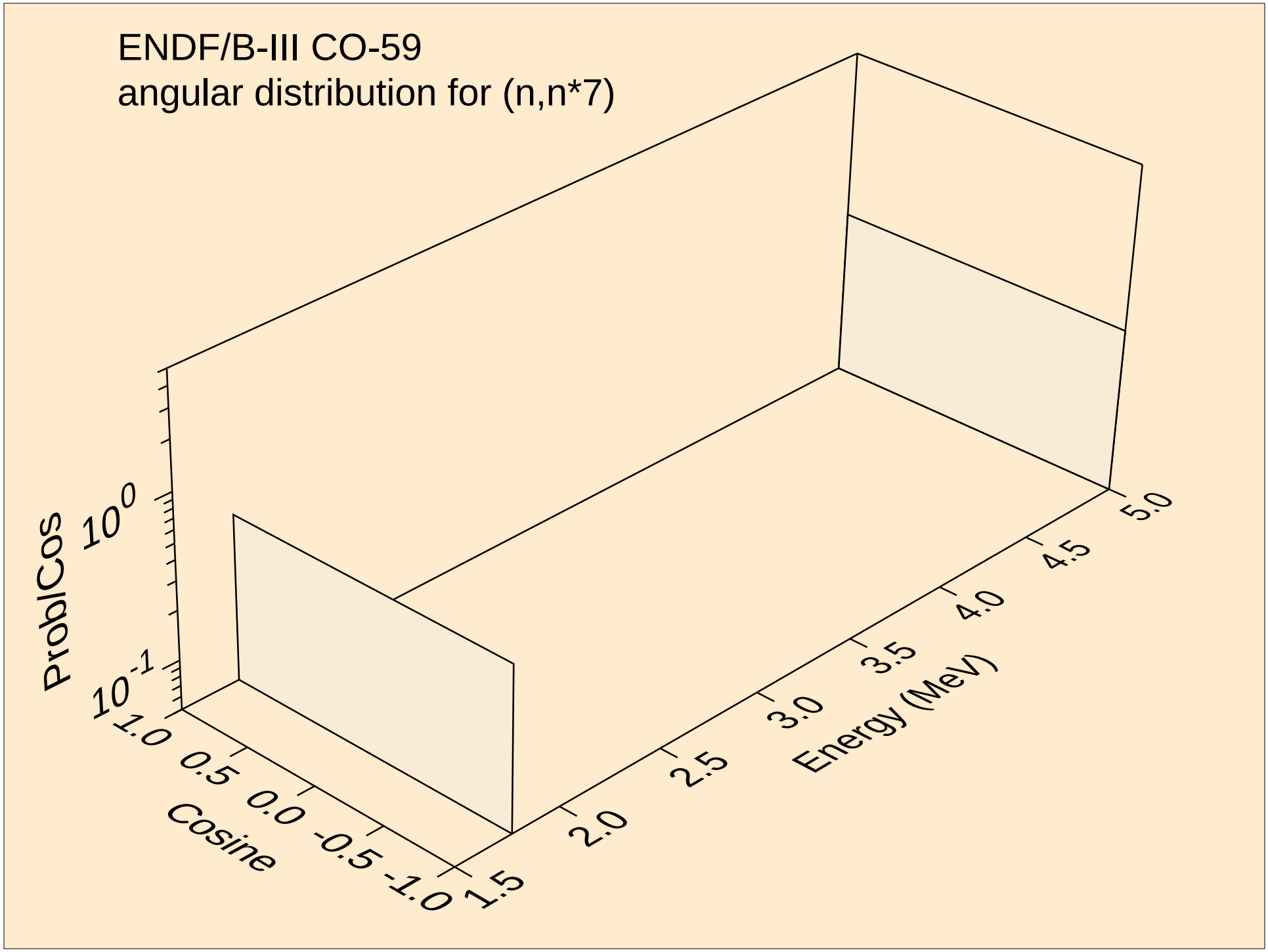

ENDF/B-III CO-59
angular distribution for (n,n*2)
ProbCos
10^0
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Energy (MeV)

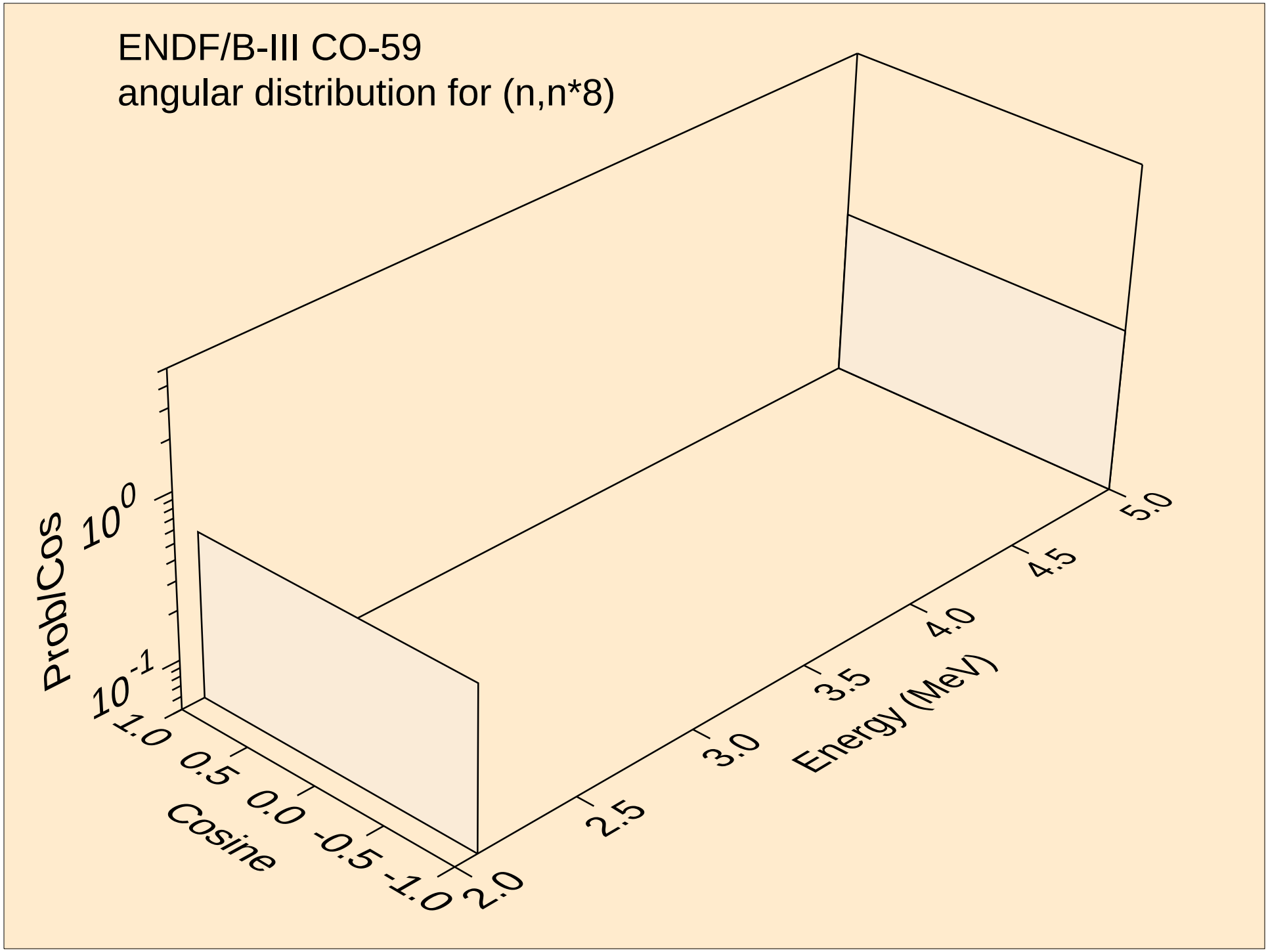

ENDF/B-III CO-59
angular distribution for (n,n*3)
Prob/Cos
10^0
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Energy (MeV)

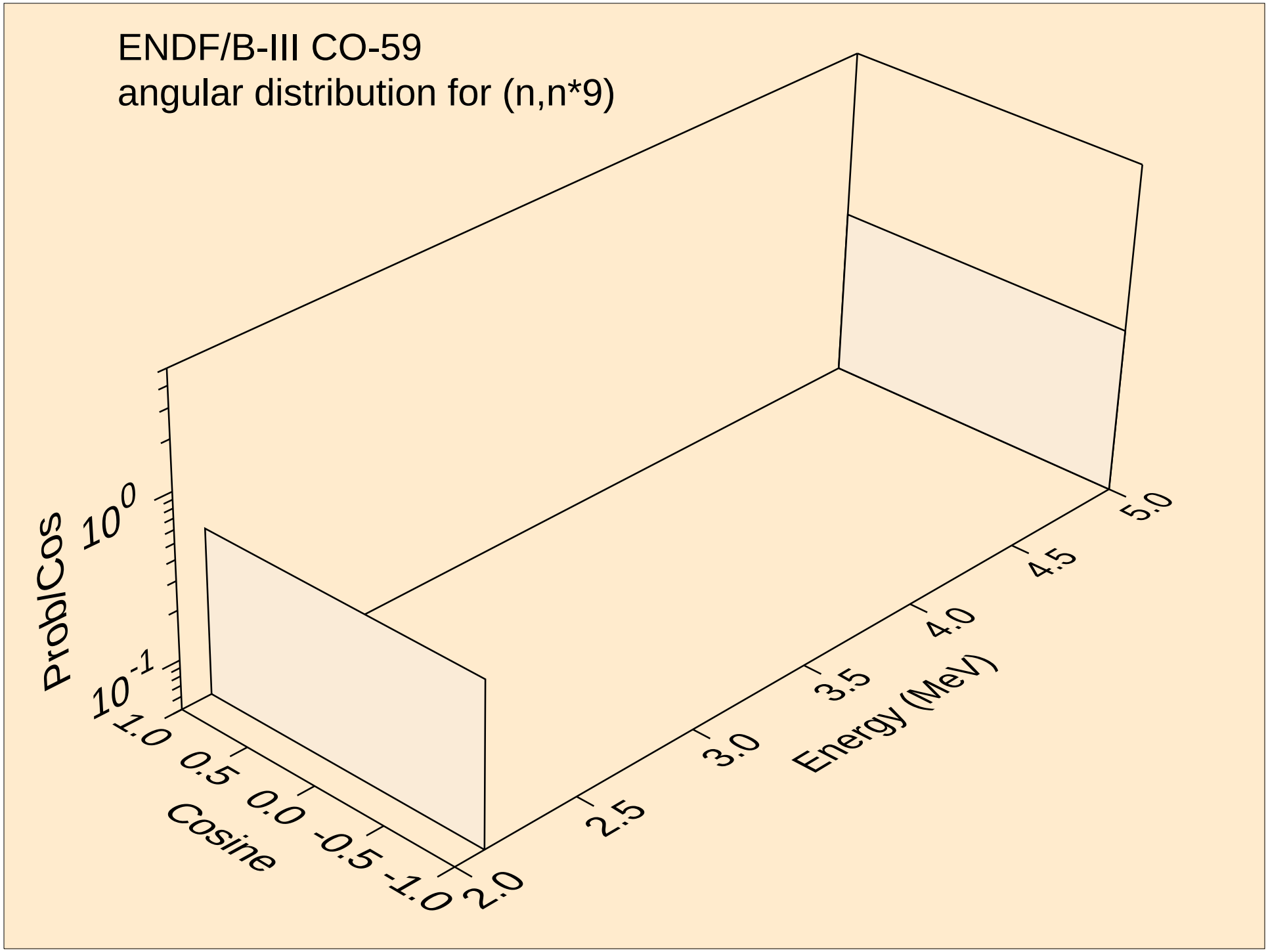

ENDF/B-III CO-59
angular distribution for (n,n*4)
Prob/Cos
10^0
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Energy (MeV)

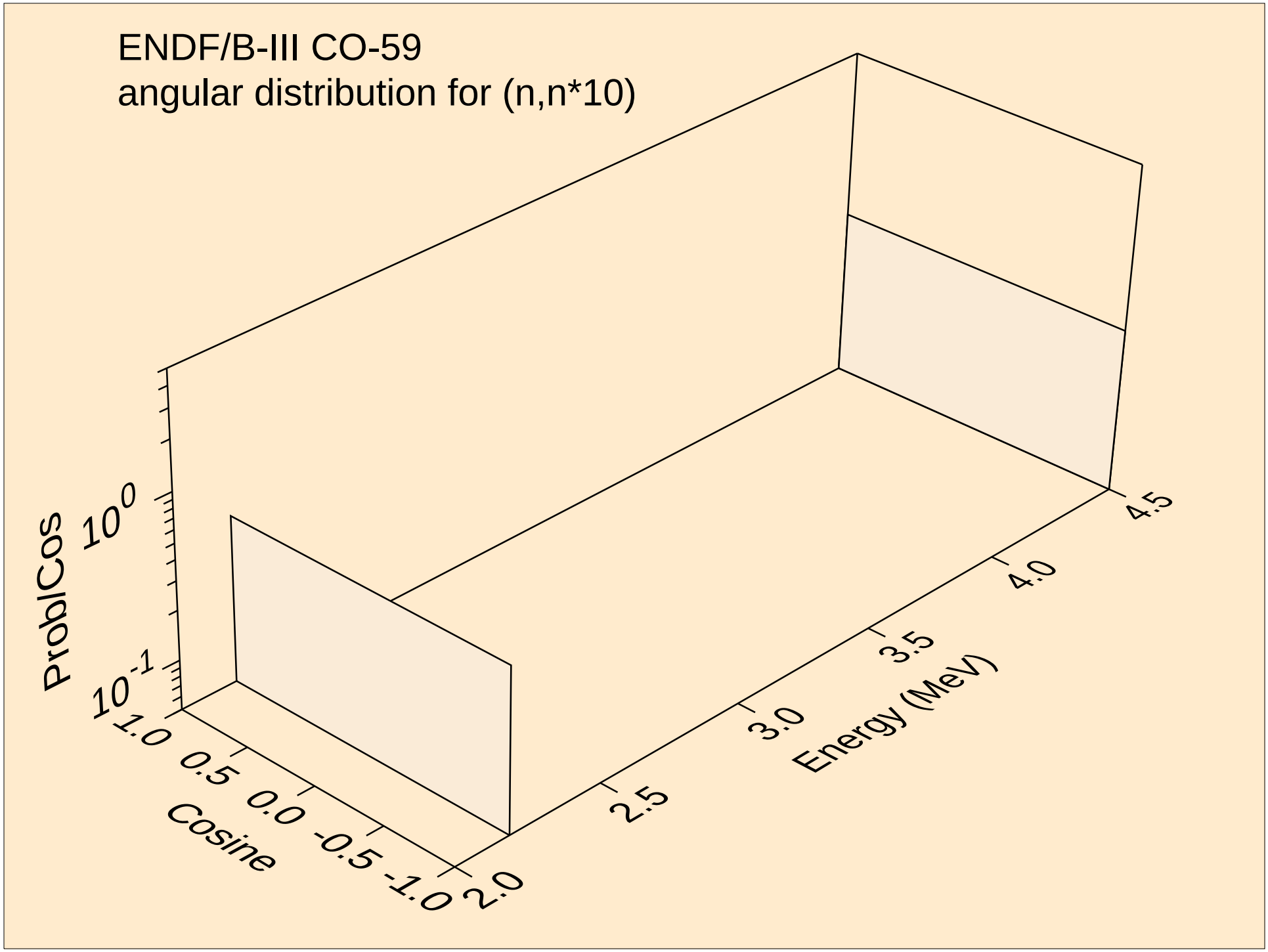

ENDF/B-III CO-59
angular distribution for (n,n*5)
Prob/Cos
10^0
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Energy (MeV)

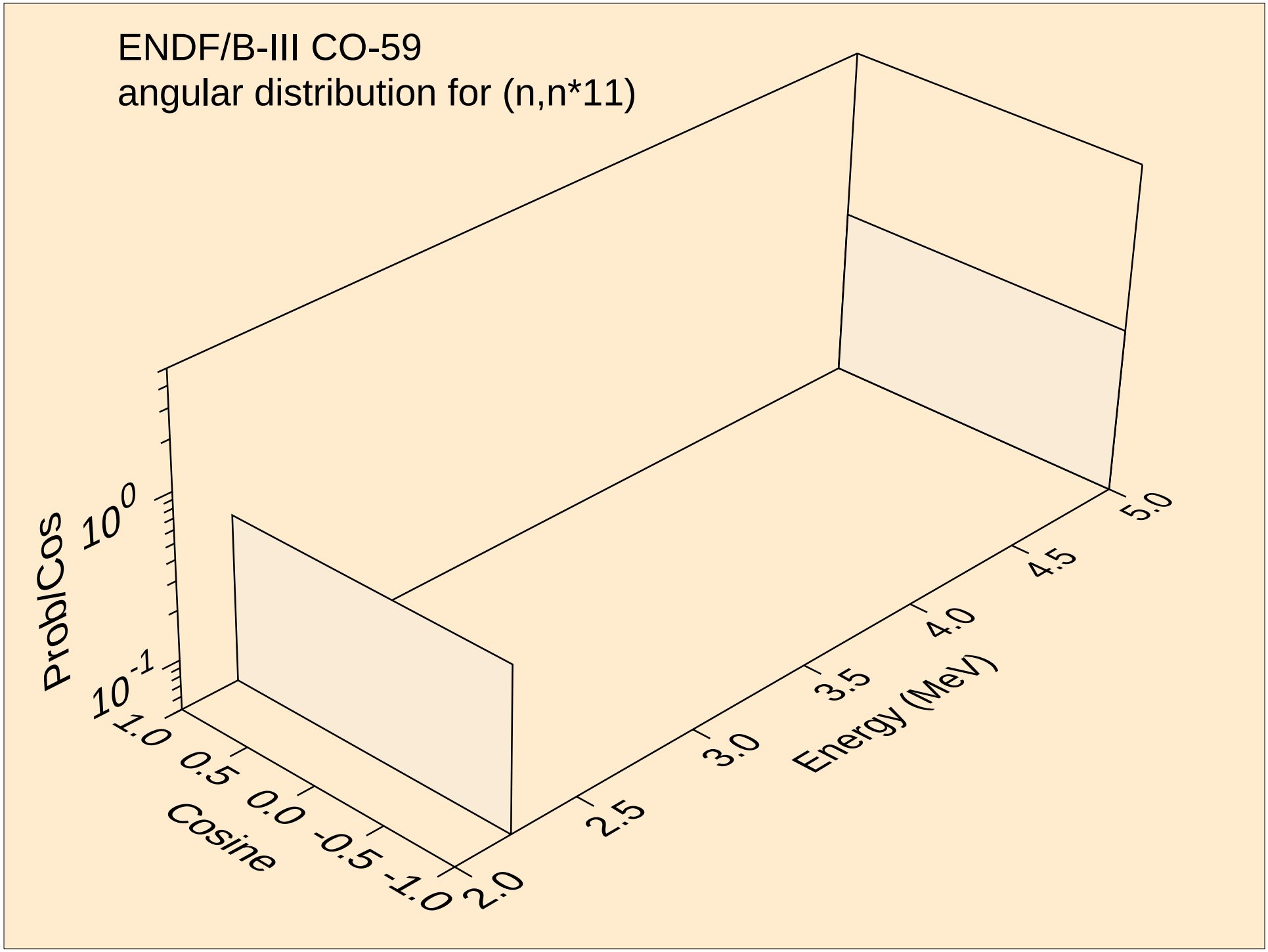

ENDF/B-III CO-59
angular distribution for (n,n*6)
Prob/Cos
10^0
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Energy (MeV)

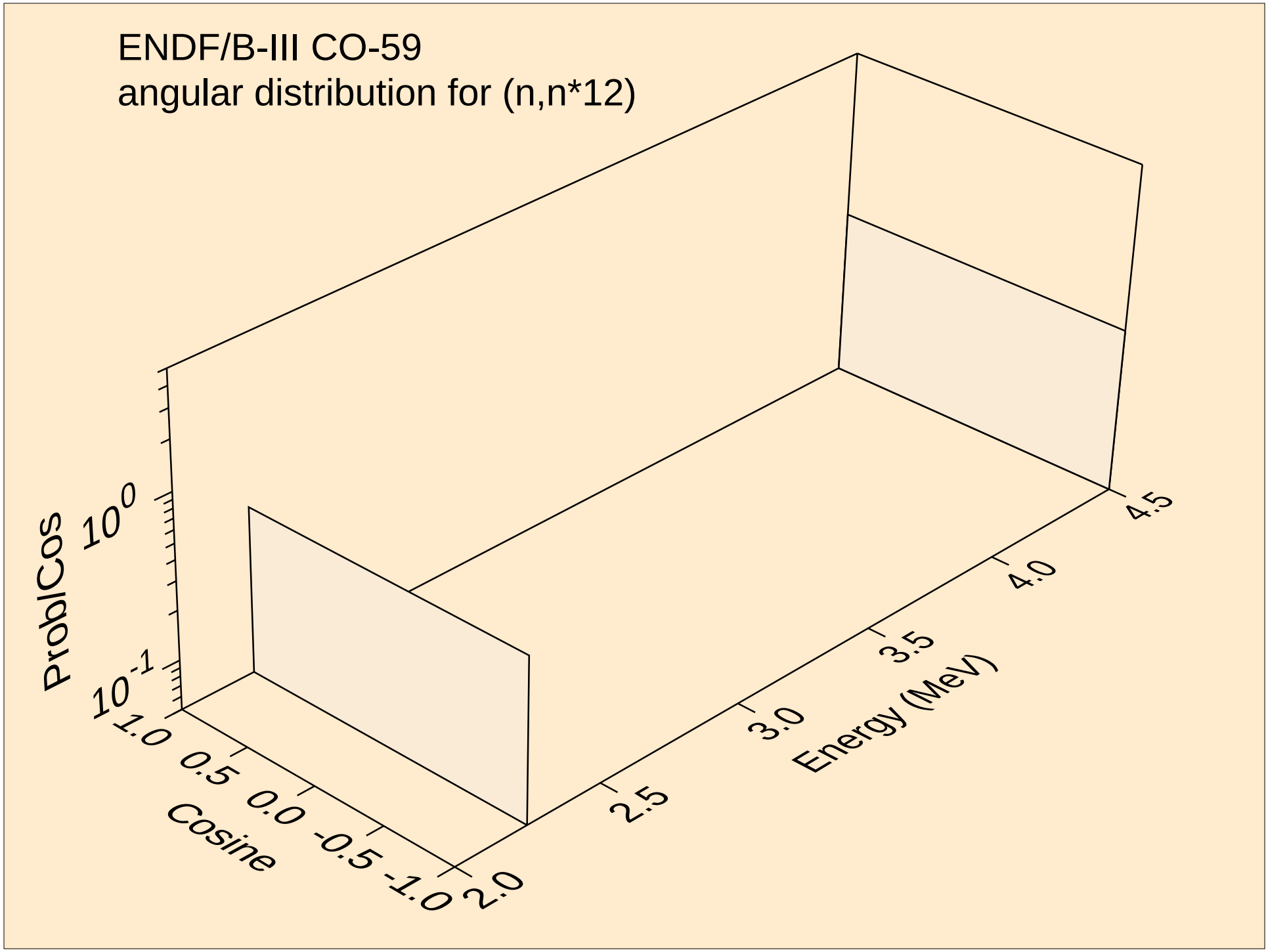

ENDF/B-III CO-59
angular distribution for (n,n*7)
Prob/Cos
10^0
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Energy (MeV)

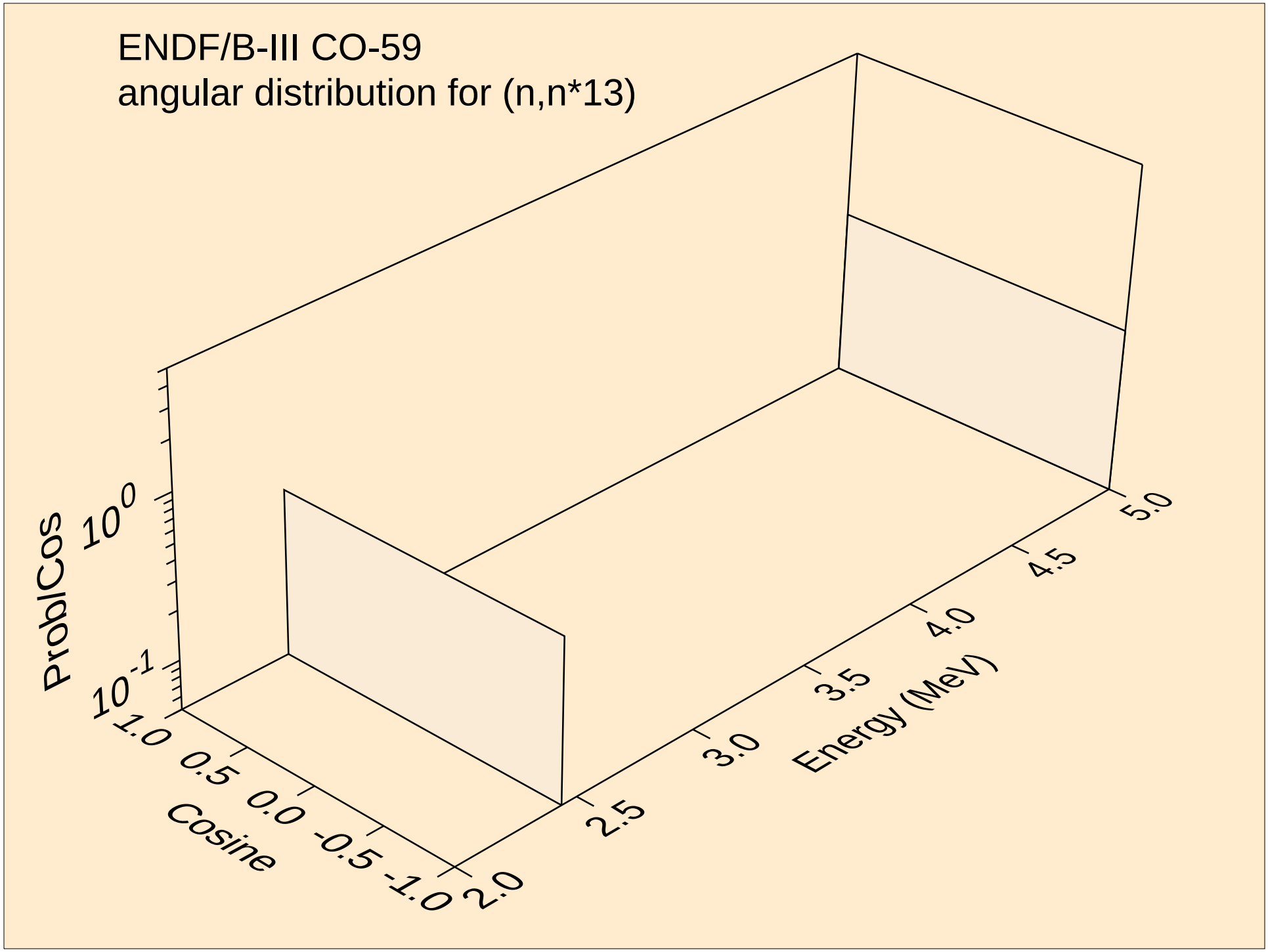

ENDF/B-III CO-59
angular distribution for (n,n*8)
ProbCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Energy (MeV)

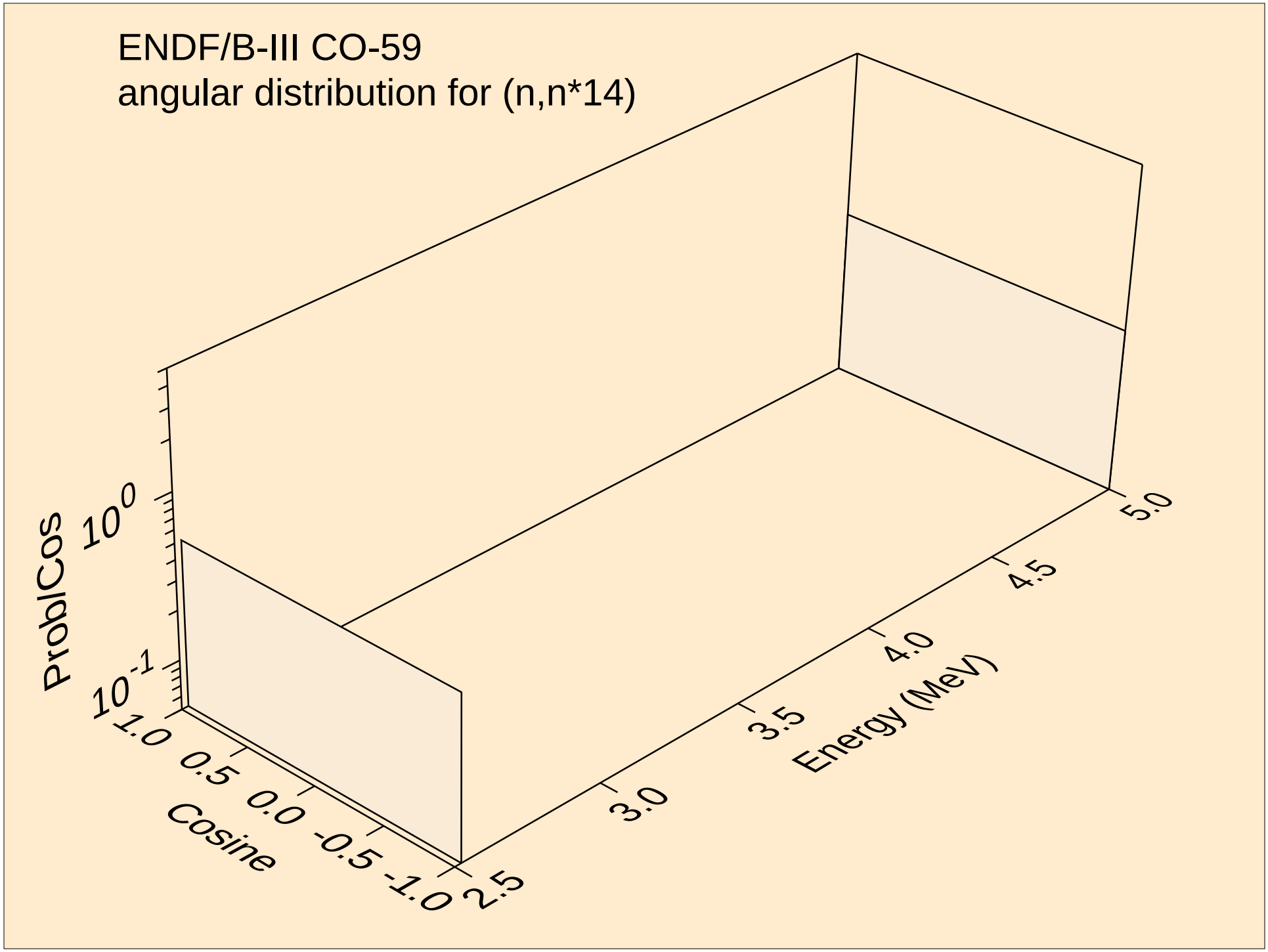

ENDF/B-III CO-59
angular distribution for (n,n*9)
ProbCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Energy (MeV)

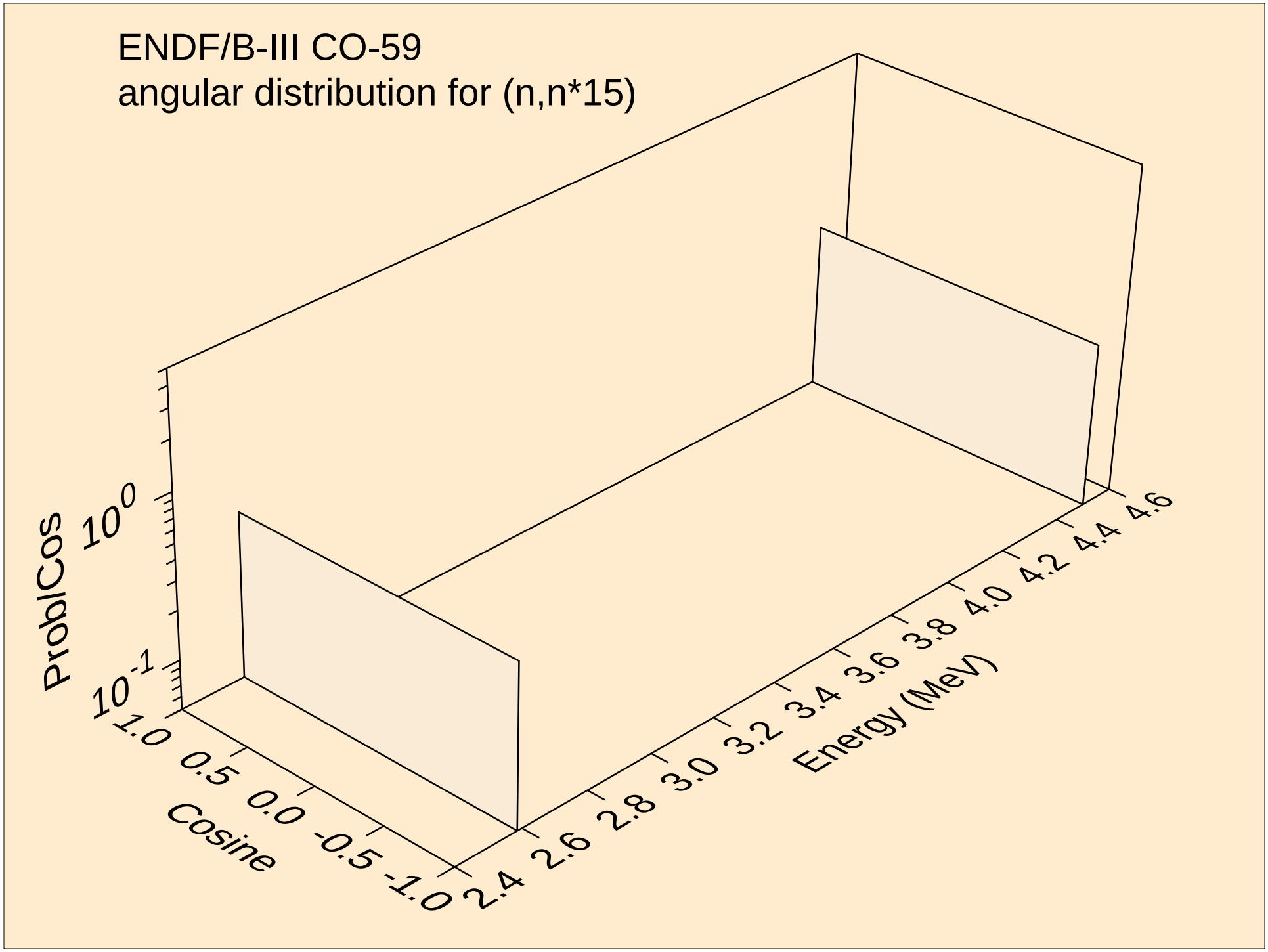

ENDF/B-III CO-59
angular distribution for (n,n*10)
ProbCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
2.0
2.5
3.0
3.5
4.0
4.5
Energy (MeV)

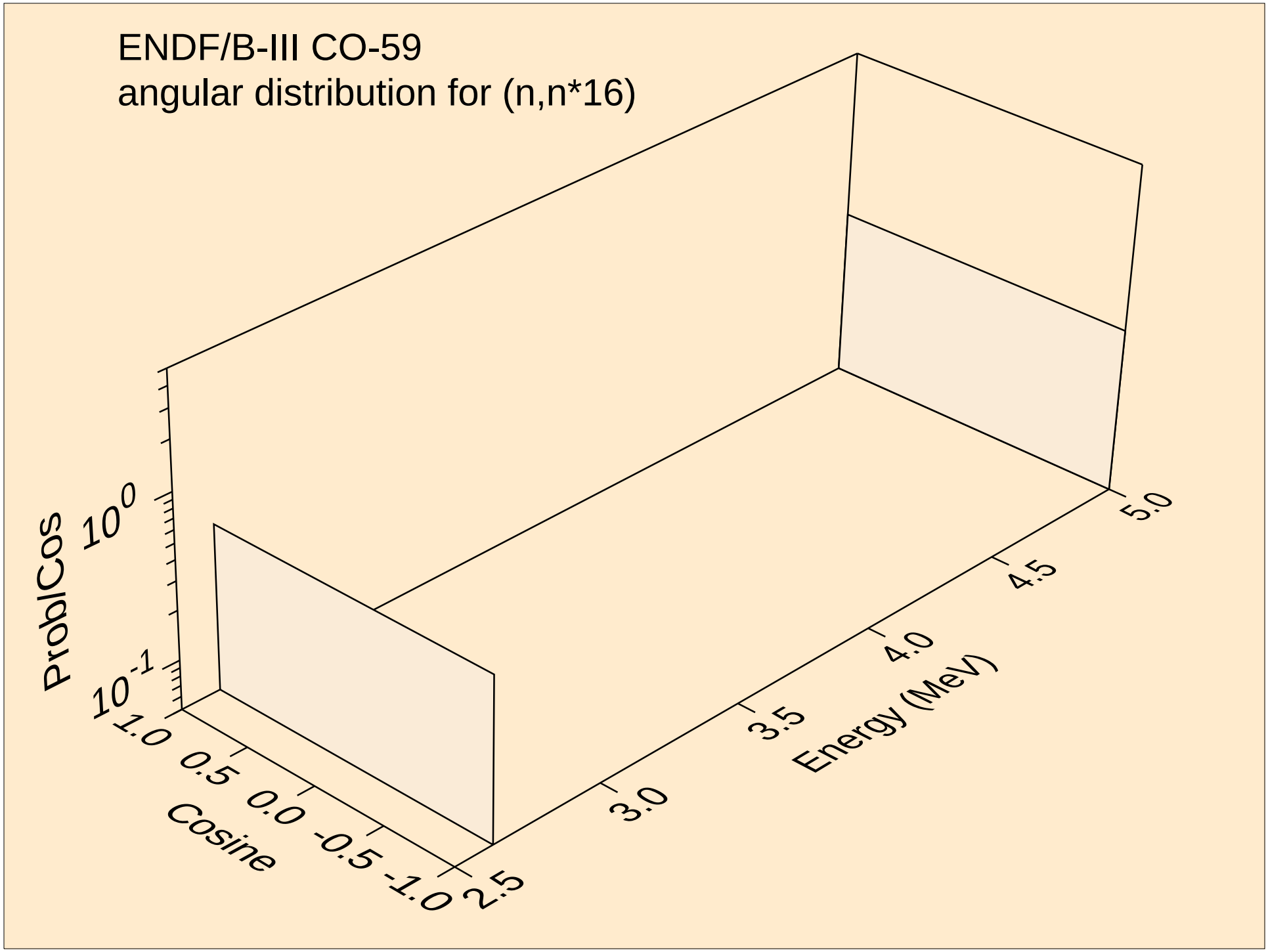

ENDF/B-III CO-59
angular distribution for (n,n*11)
Prob/Cos
10^0
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Energy (MeV)

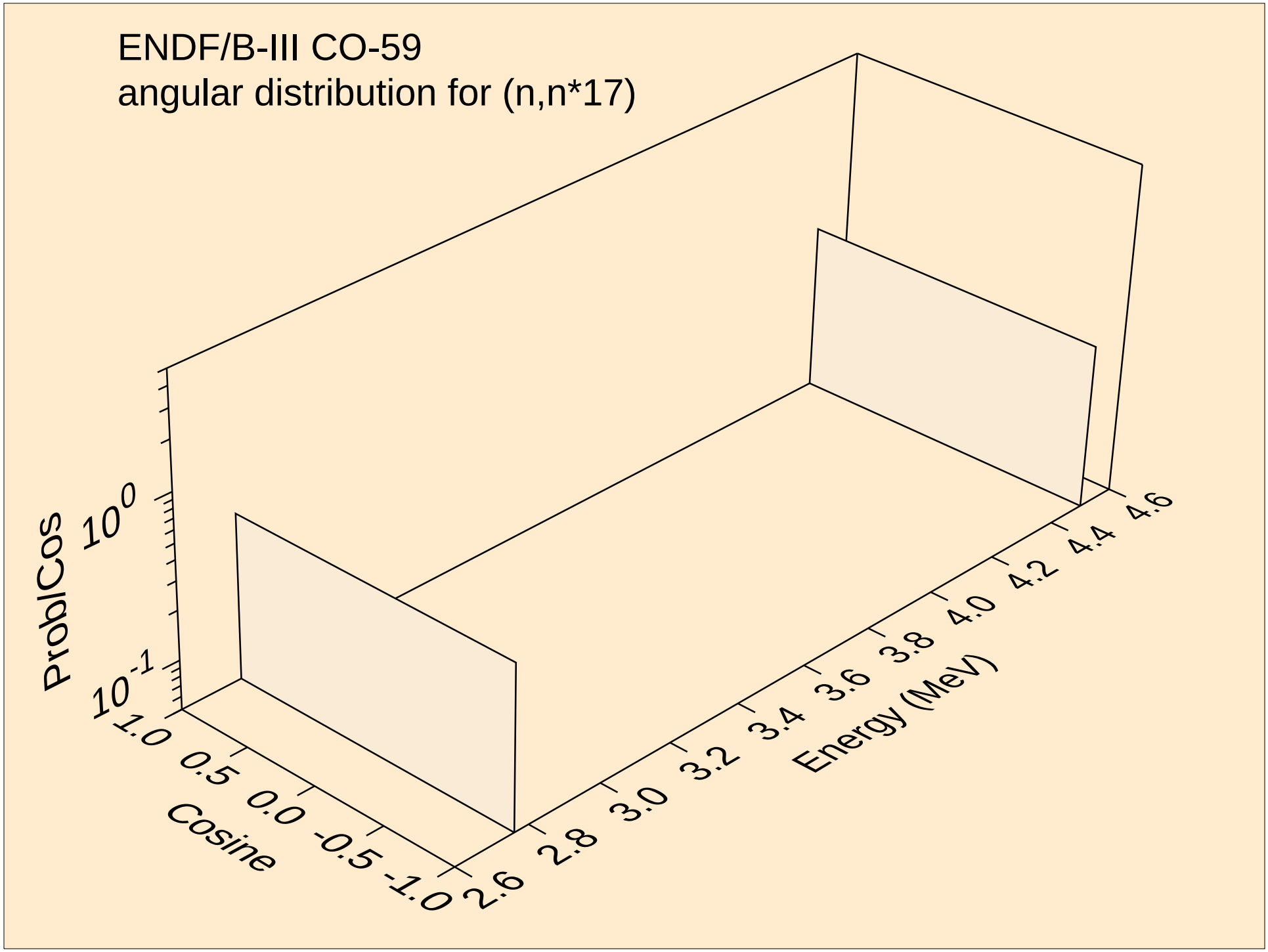

ENDF/B-III CO-59
angular distribution for (n,n*12)
Prob/Cos
10^0
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
2.0
2.5
3.0
3.5
4.0
4.5
Energy (MeV)

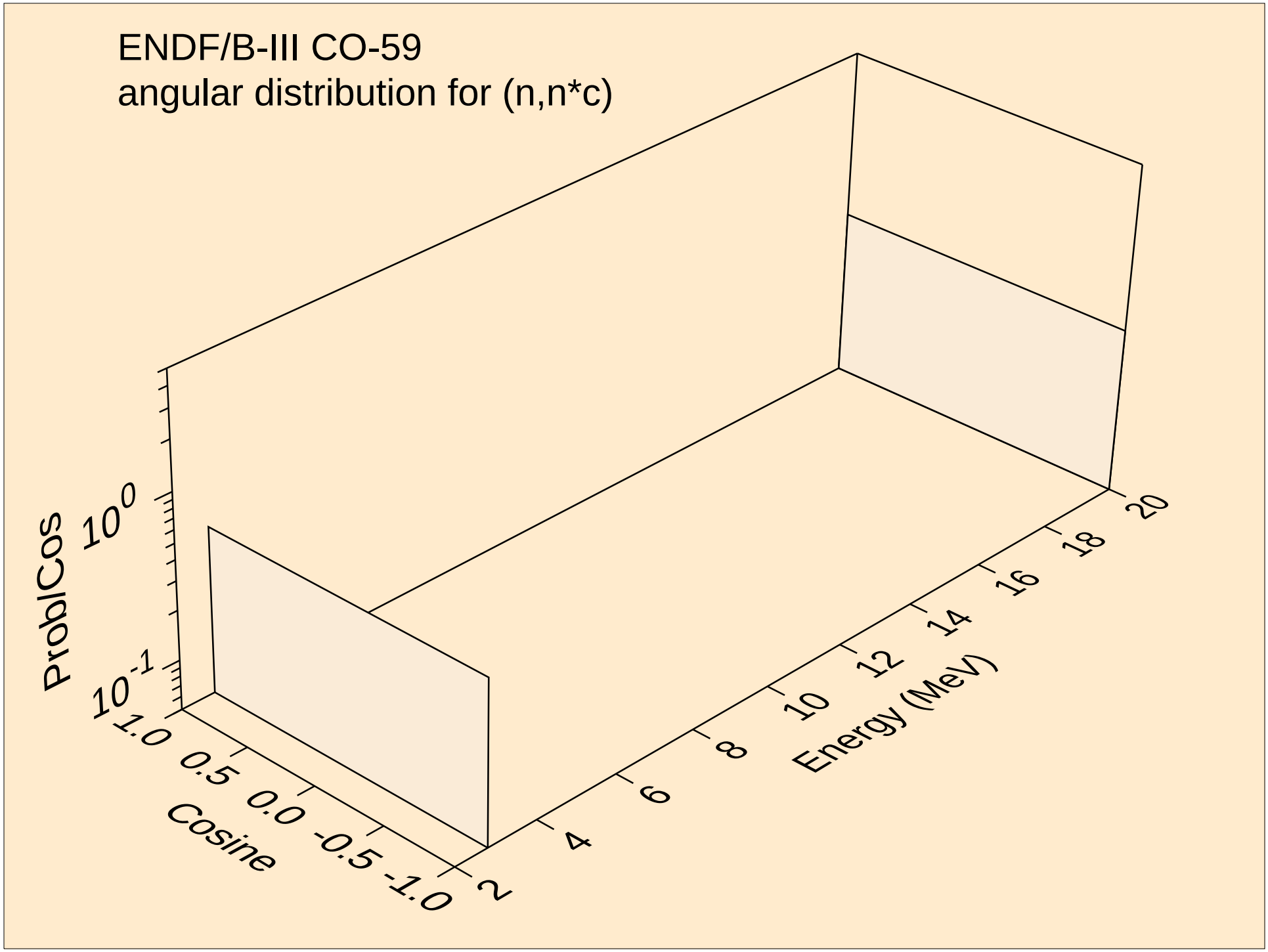

ENDF/B-III CO-59
angular distribution for (n,n*13)
Prob/Cos
10^0
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Energy (MeV)


ENDF/B-III CO-59
angular distribution for (n,n*14)
Prob/Cos
10^0
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
2.5
3.0
3.5
4.0
4.5
5.0
Energy (MeV)


ENDF/B-III CO-59
angular distribution for (n,n*15)
Prob/Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
Energy (MeV)


ENDF/B-III CO-59
angular distribution for (n,n*16)
ProbCos
10^0
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
2.5
3.0
3.5
4.0
4.5
5.0
Energy (MeV)


ENDF/B-III CO-59
angular distribution for (n,n*17)
Prob/Cos
10^0
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
Energy (MeV)


ENDF/B-III CO-59
angular distribution for (n,n*c)
ProbCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)