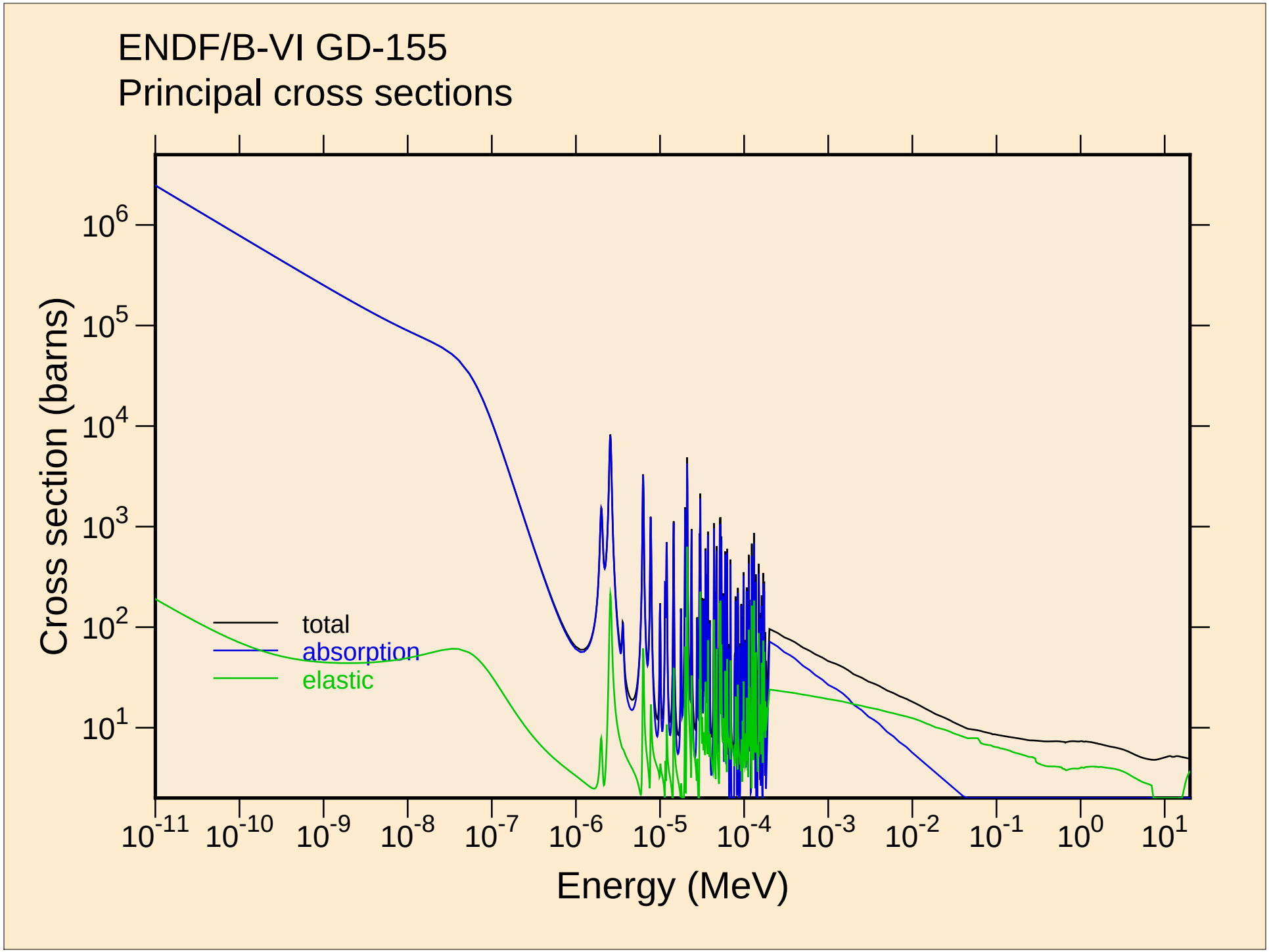
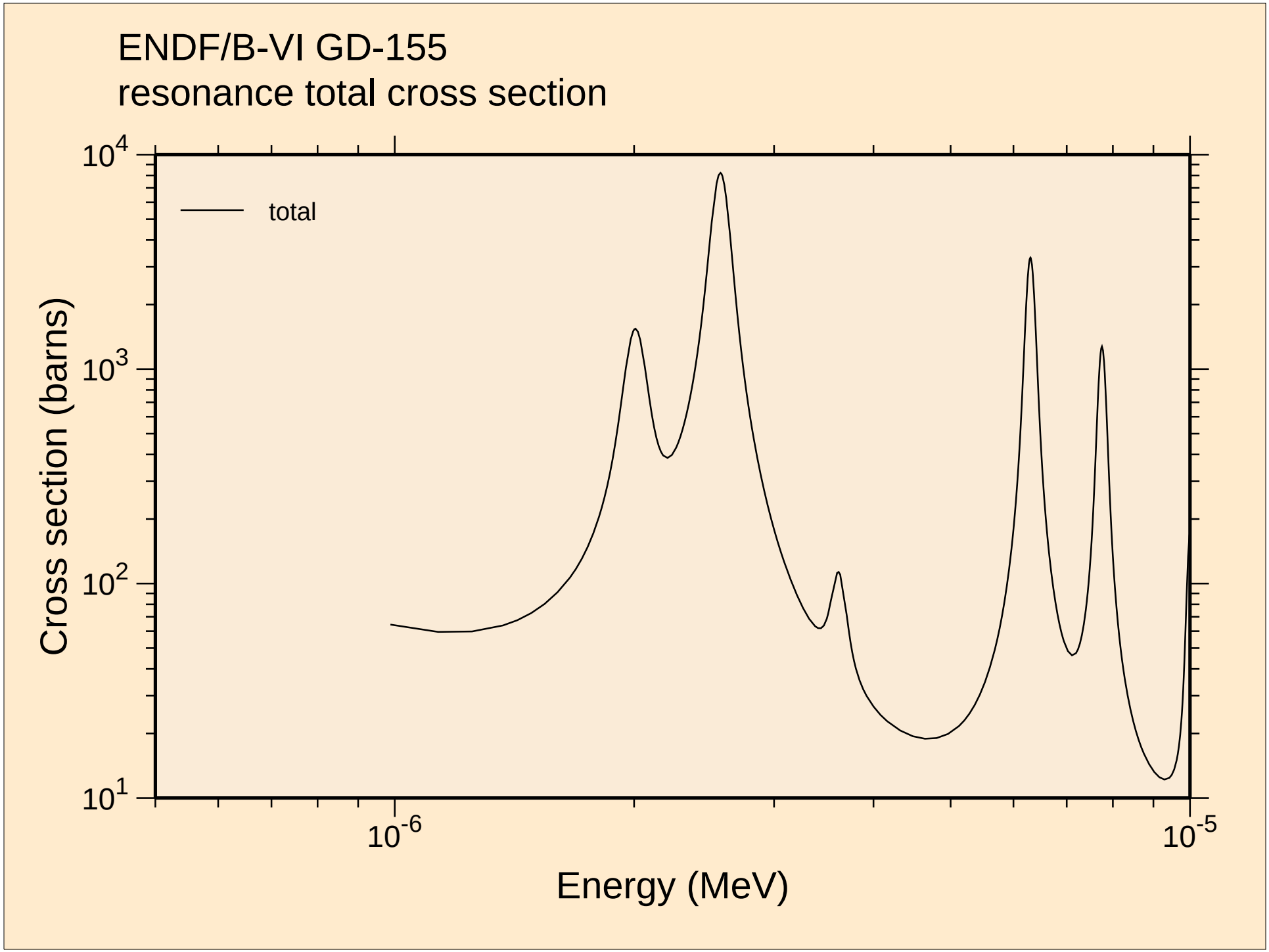
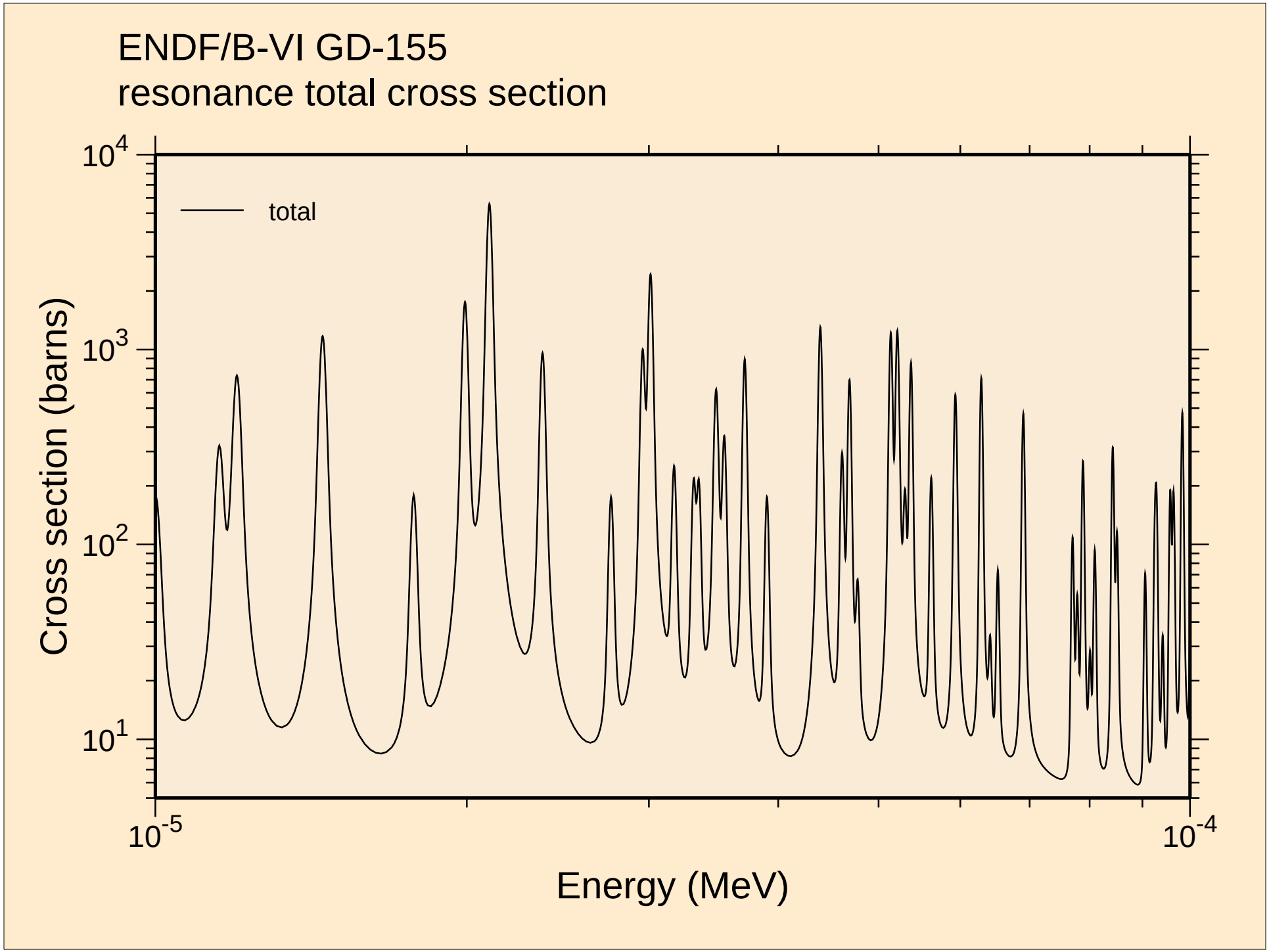
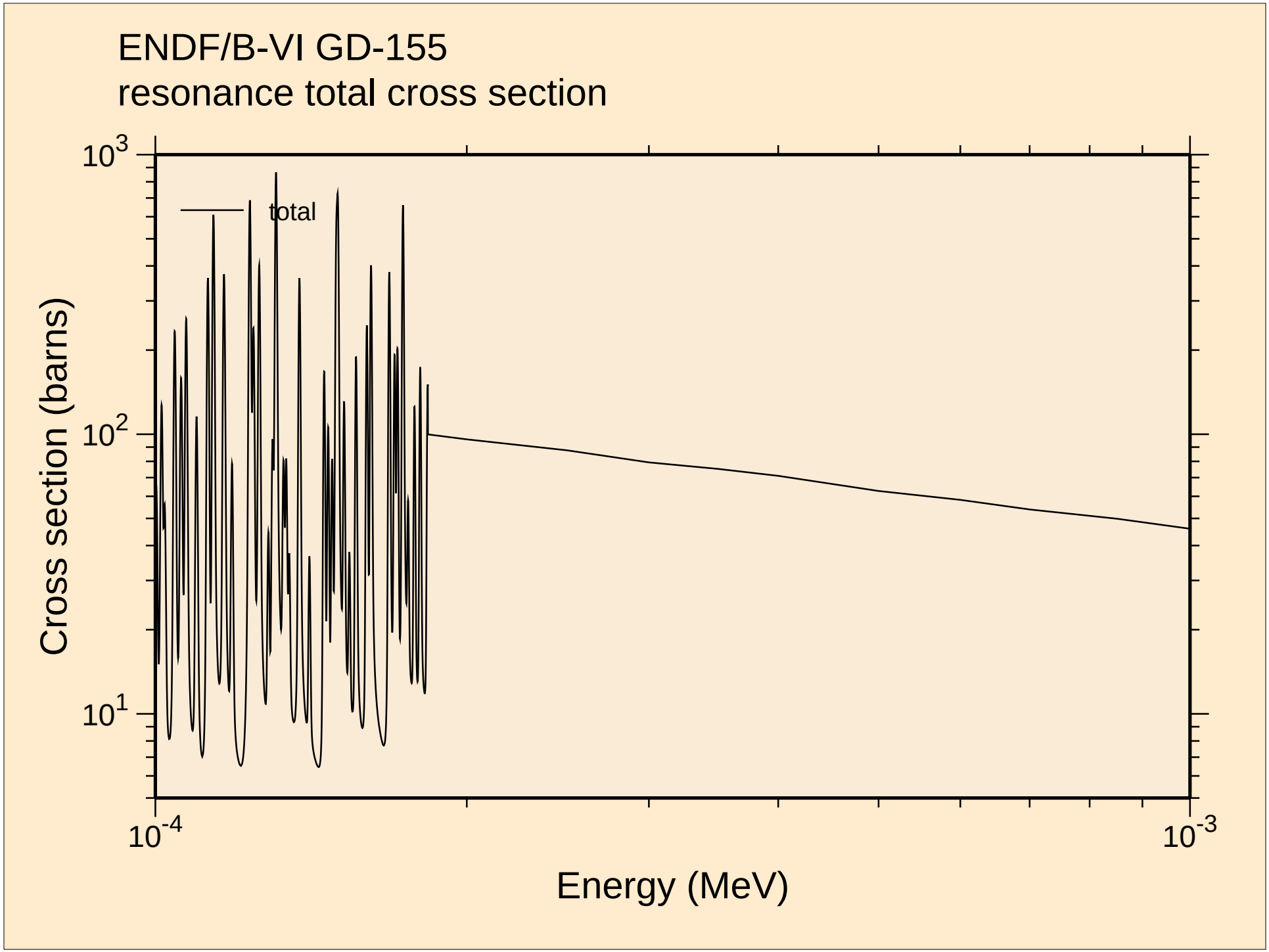
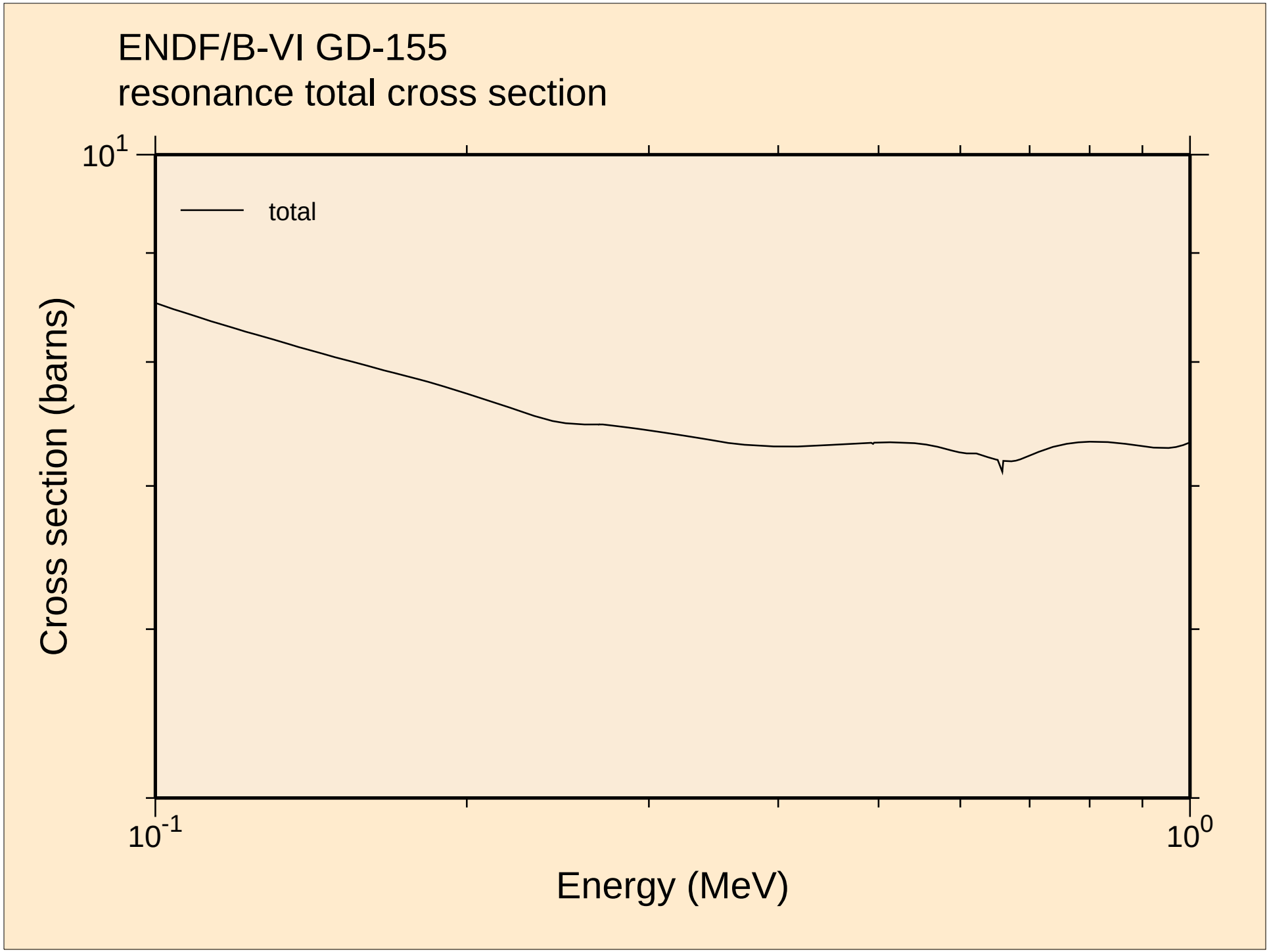
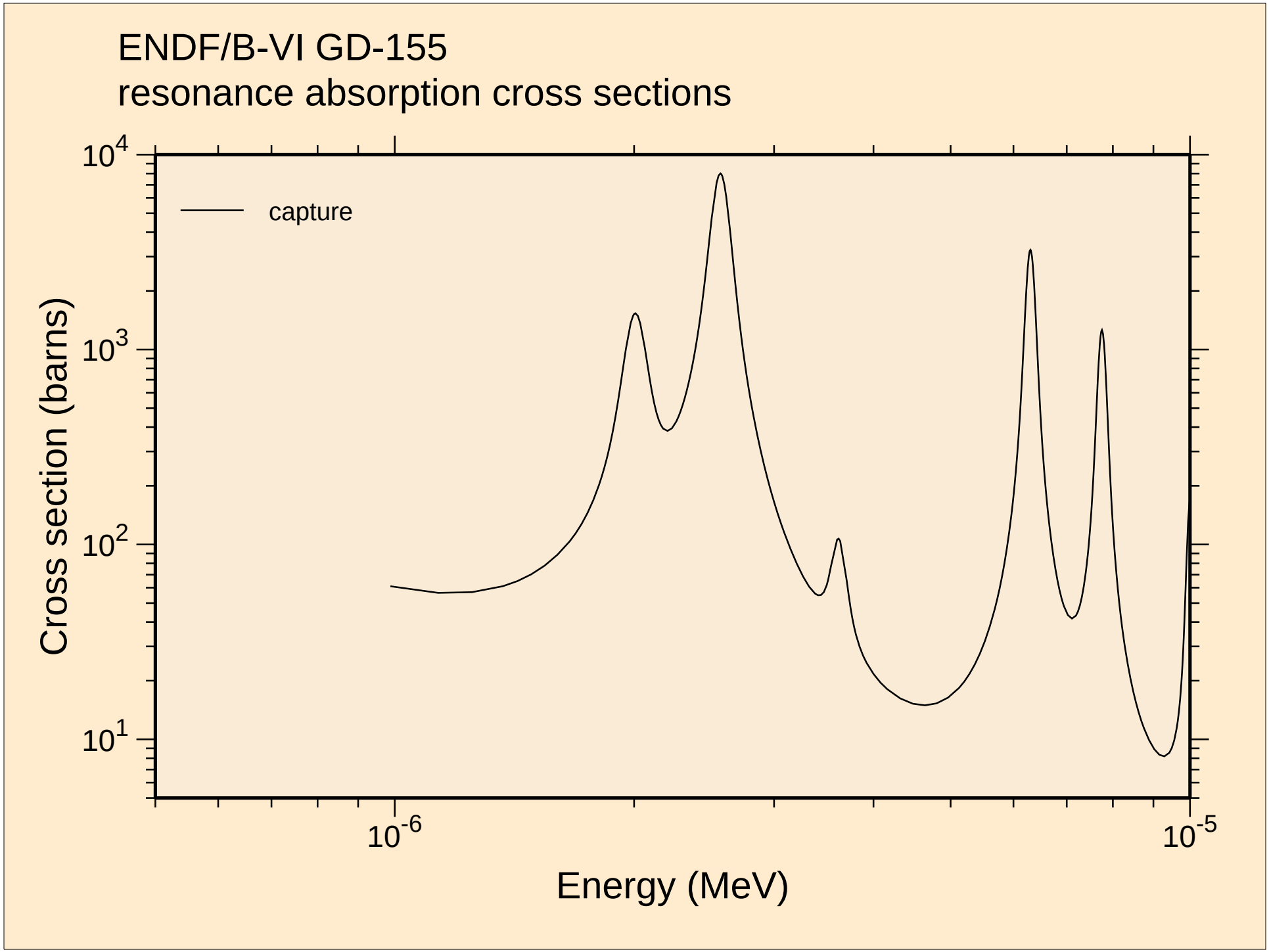

ENDF/B-VI GD-155
Principal cross sections
Cross section (barns)
$10^6$
$10^5$
$10^4$
$10^3$
$10^2$
$10^1$
total
absorption
elastic
$10^{-11}$ $10^{-10}$ $10^{-9}$ $10^{-8}$ $10^{-7}$ $10^{-6}$ $10^{-5}$ $10^{-4}$ $10^{-3}$ $10^{-2}$ $10^{-1}$ $10^{0}$ $10^{1}$
Energy (MeV)

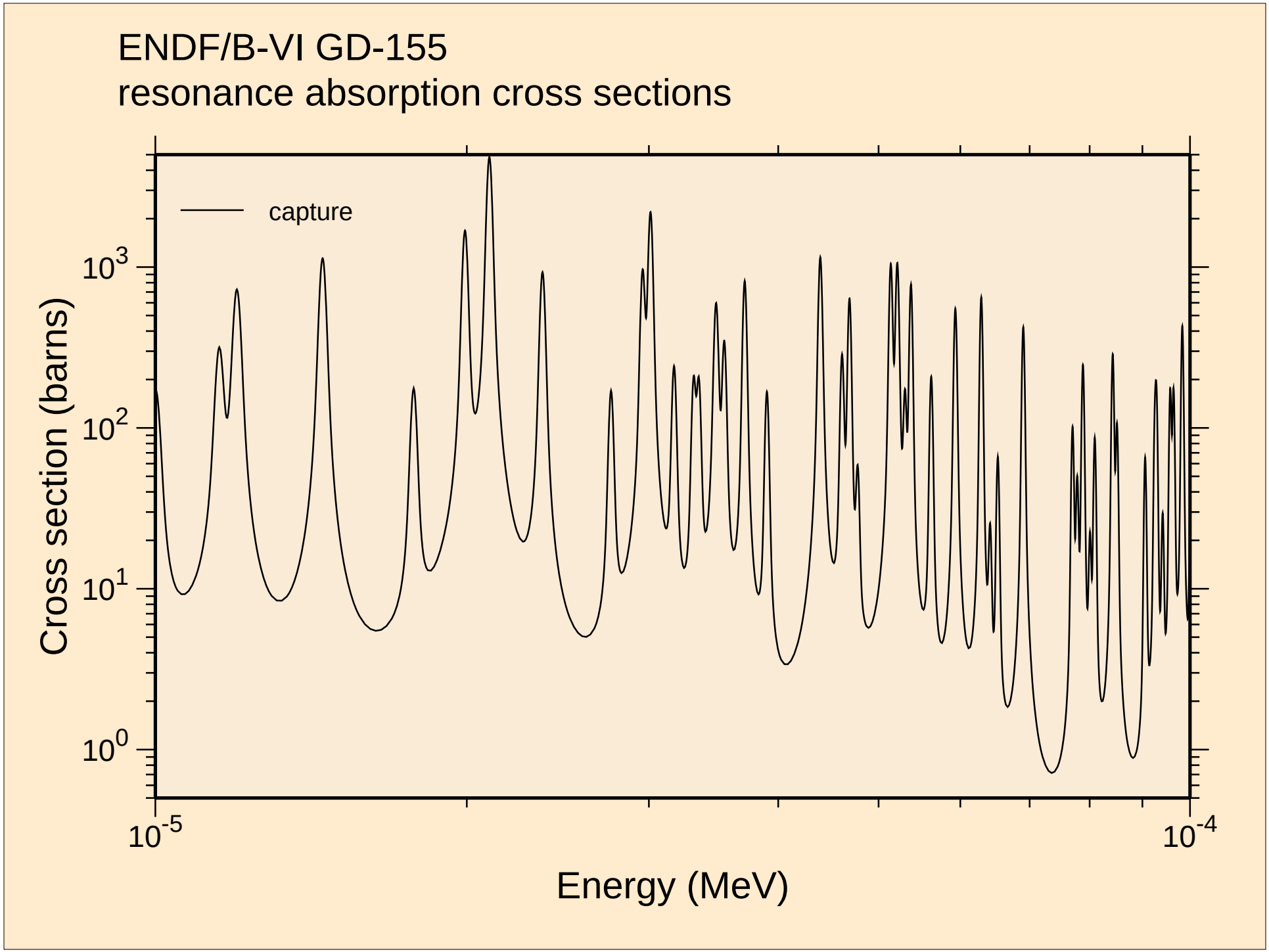

ENDF/B-VI GD-155
resonance total cross section
total
Cross section (barns)
$10^4$
$10^3$
$10^2$
$10^1$
$10^{-6}$
$10^{-5}$
Energy (MeV)

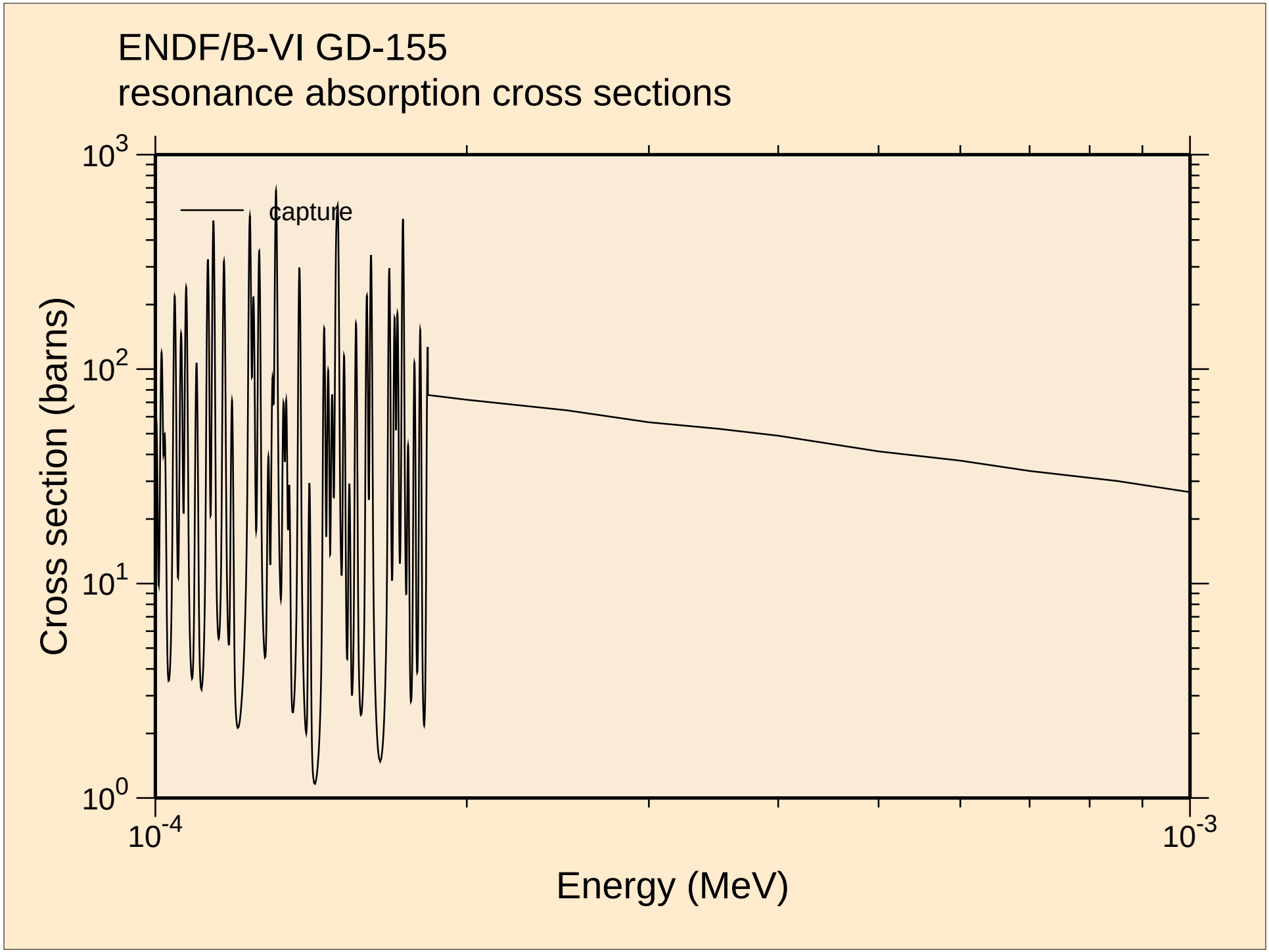

ENDF/B-VI GD-155
resonance total cross section
total
Cross section (barns)
$10^4$
$10^3$
$10^2$
$10^1$
$10^{-5}$
$10^{-4}$
Energy (MeV)

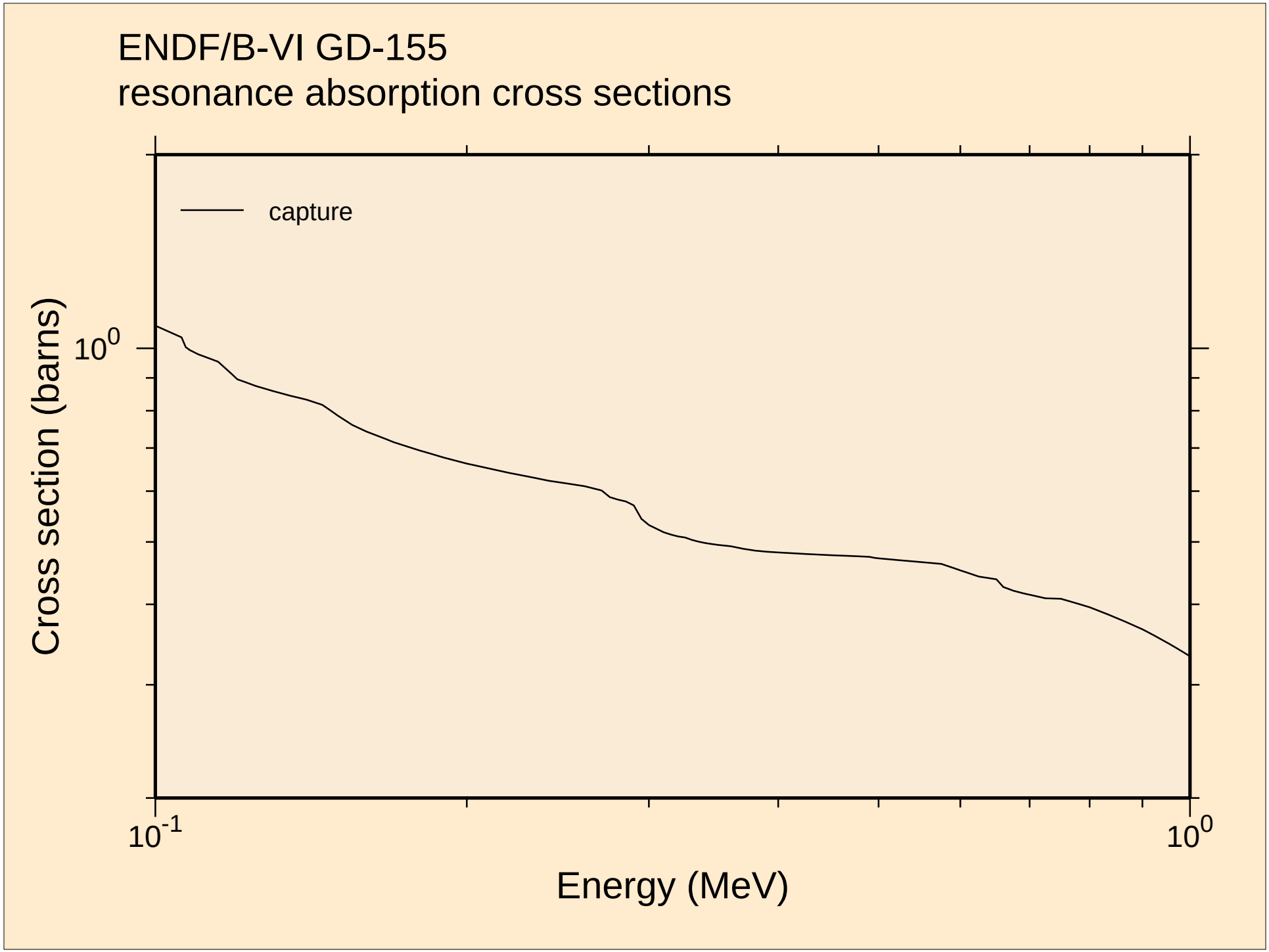

ENDF/B-VI GD-155
resonance total cross section
total
Cross section (barns)
$10^3$
$10^2$
$10^1$
$10^{-4}$
$10^{-3}$
Energy (MeV)

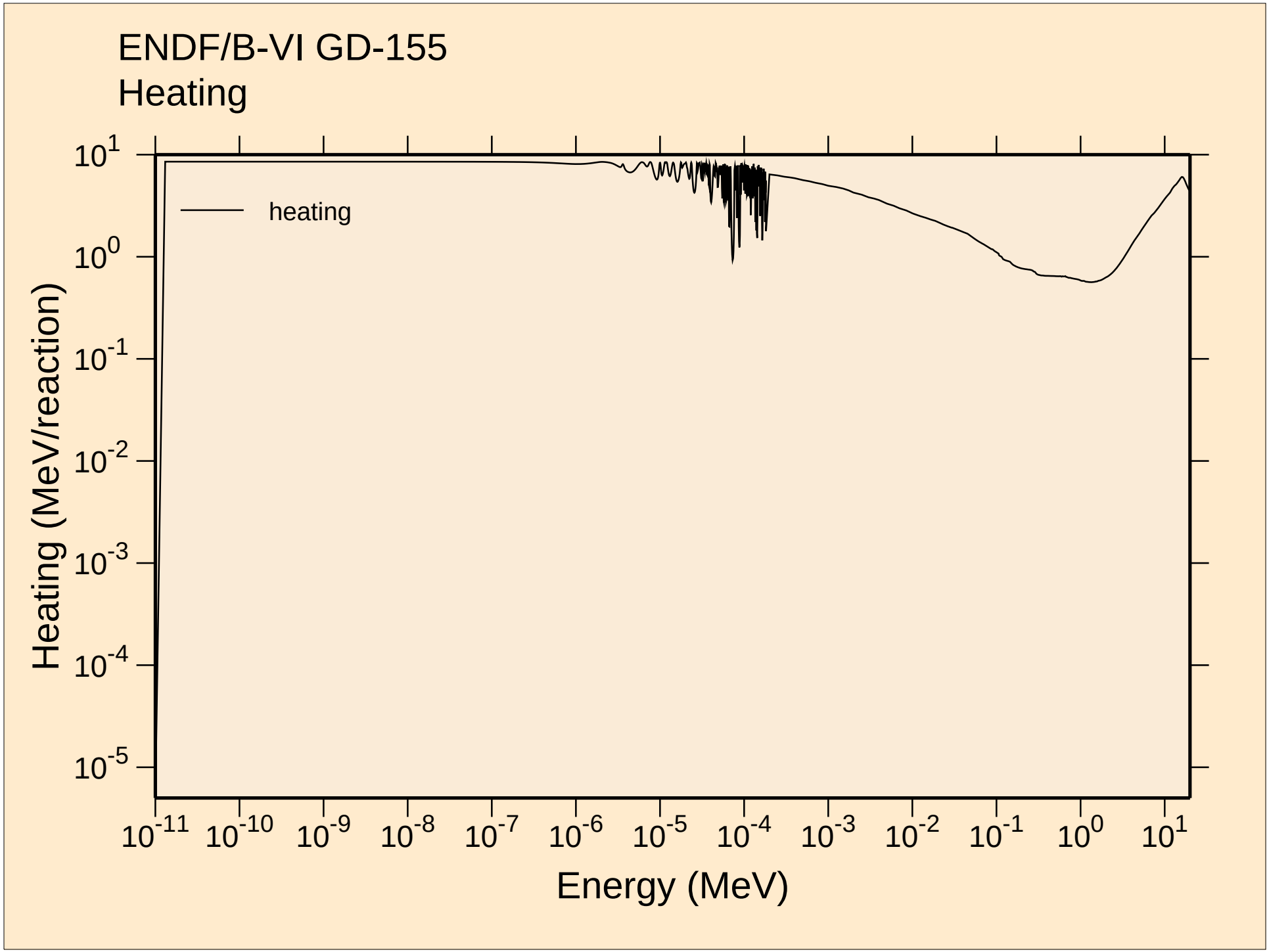

ENDF/B-VI GD-155
resonance total cross section
$10^{1}$
total
Cross section (barns)
$10^{-1}$
$10^{0}$
Energy (MeV)

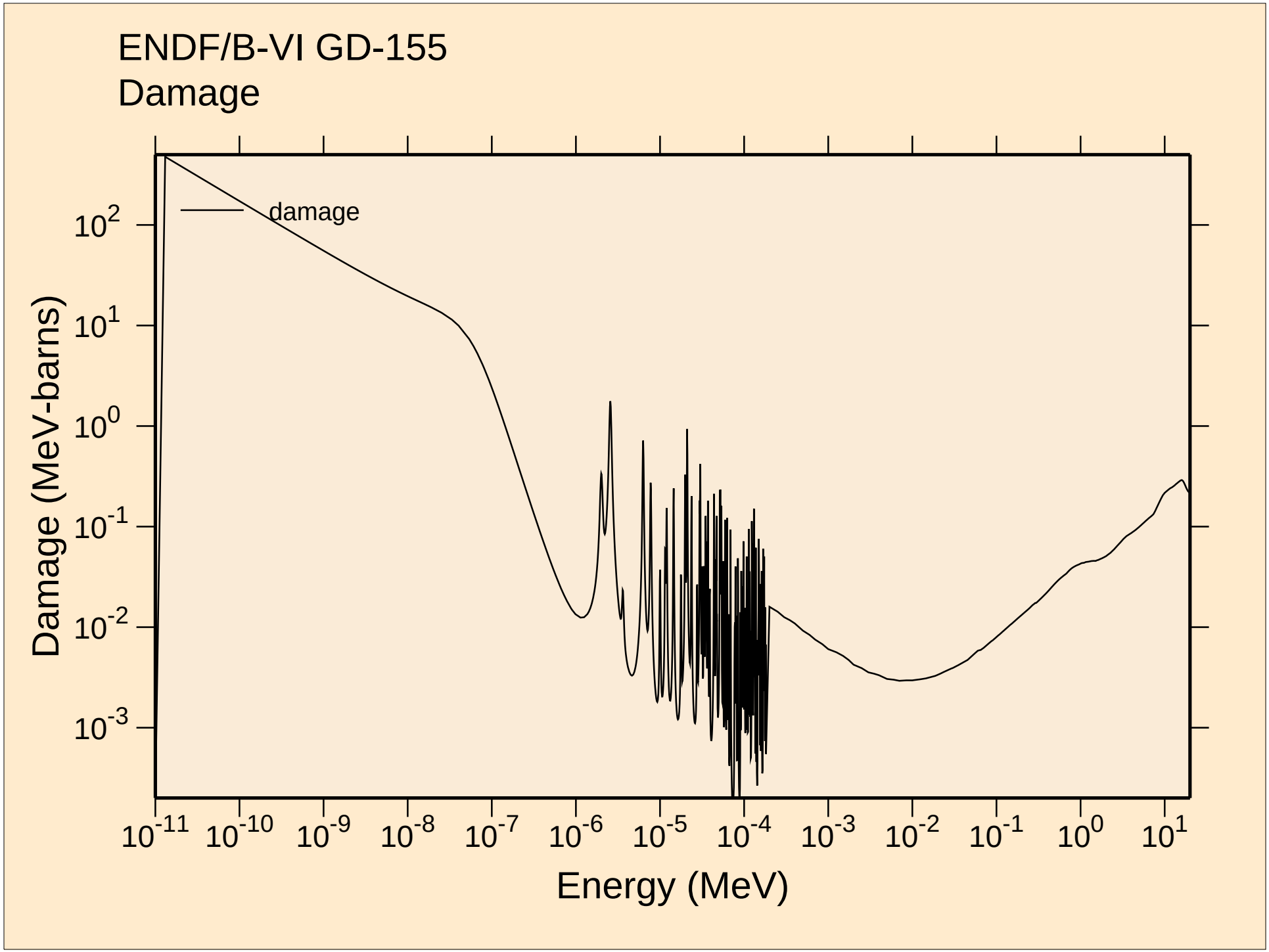

ENDF/B-VI GD-155
resonance absorption cross sections
capture
Cross section (barns)
$10^4$
$10^3$
$10^2$
$10^1$
$10^{-6}$
$10^{-5}$
Energy (MeV)

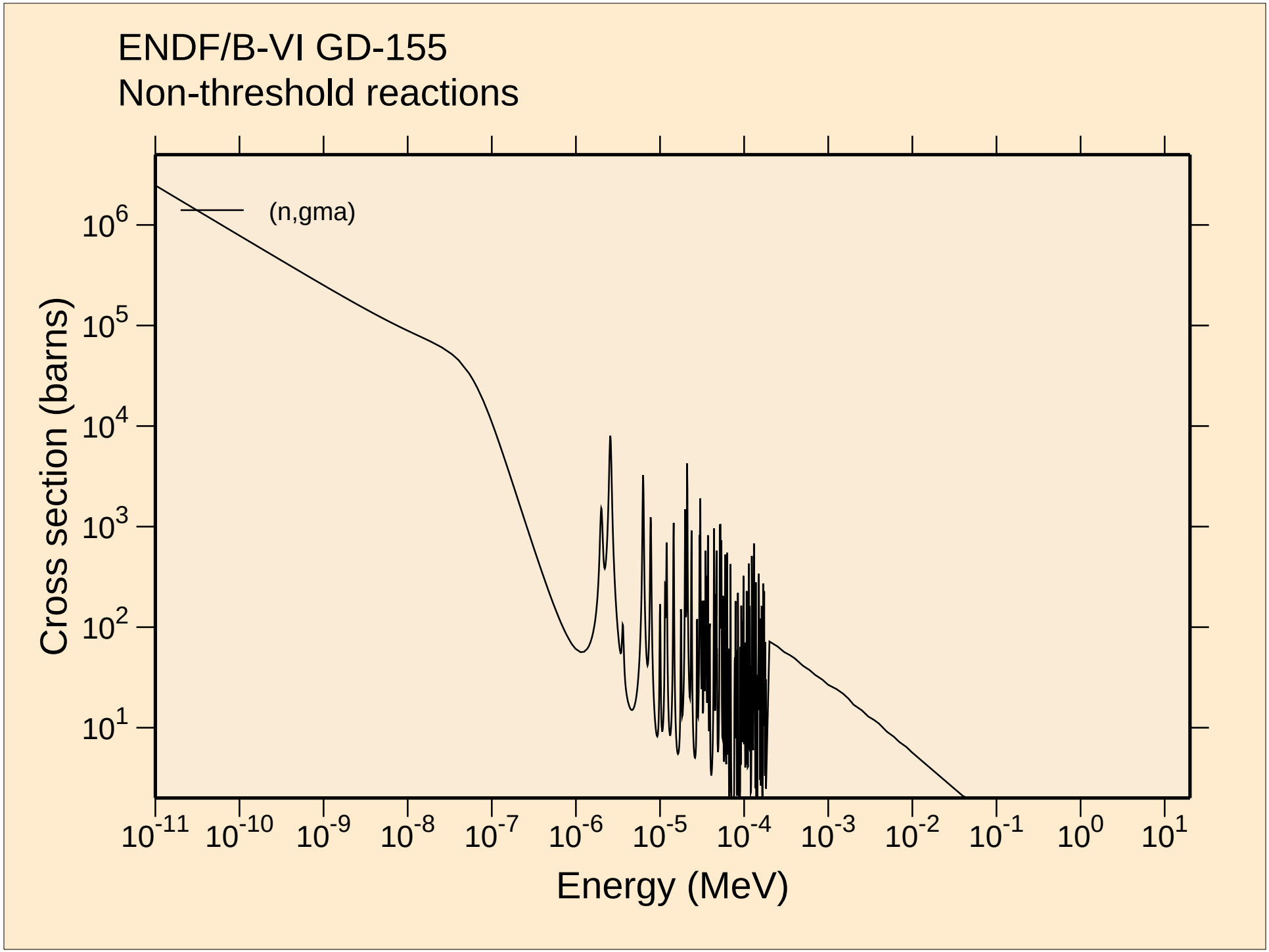

ENDF/B-VI GD-155
resonance absorption cross sections
capture
Cross section (barns)
$10^3$
$10^2$
$10^1$
$10^0$
$10^{-5}$
$10^{-4}$
Energy (MeV)

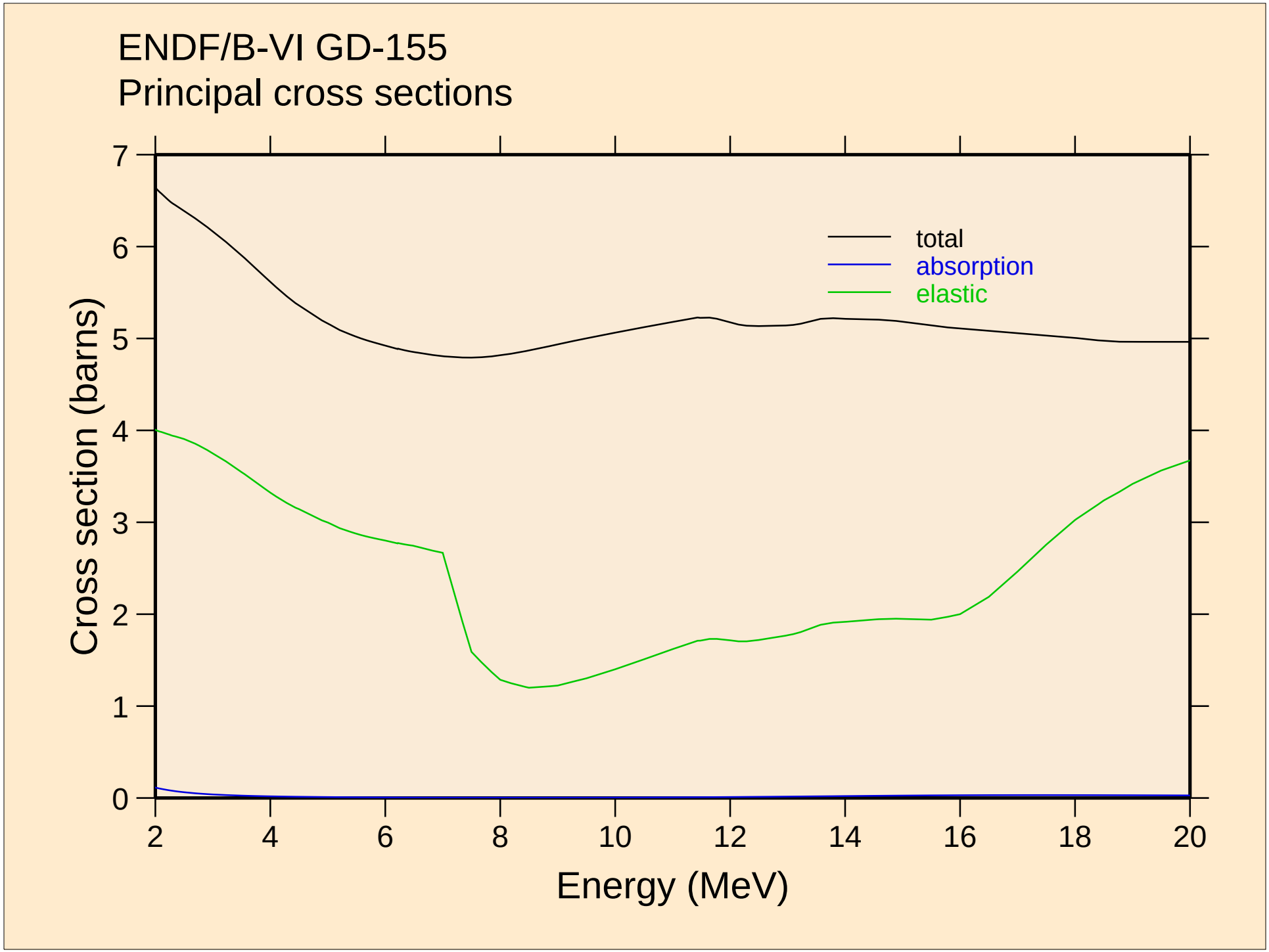

ENDF/B-VI GD-155
resonance absorption cross sections
capture
Cross section (barns)
$10^3$
$10^2$
$10^1$
$10^0$
$10^{-4}$
$10^{-3}$
Energy (MeV)

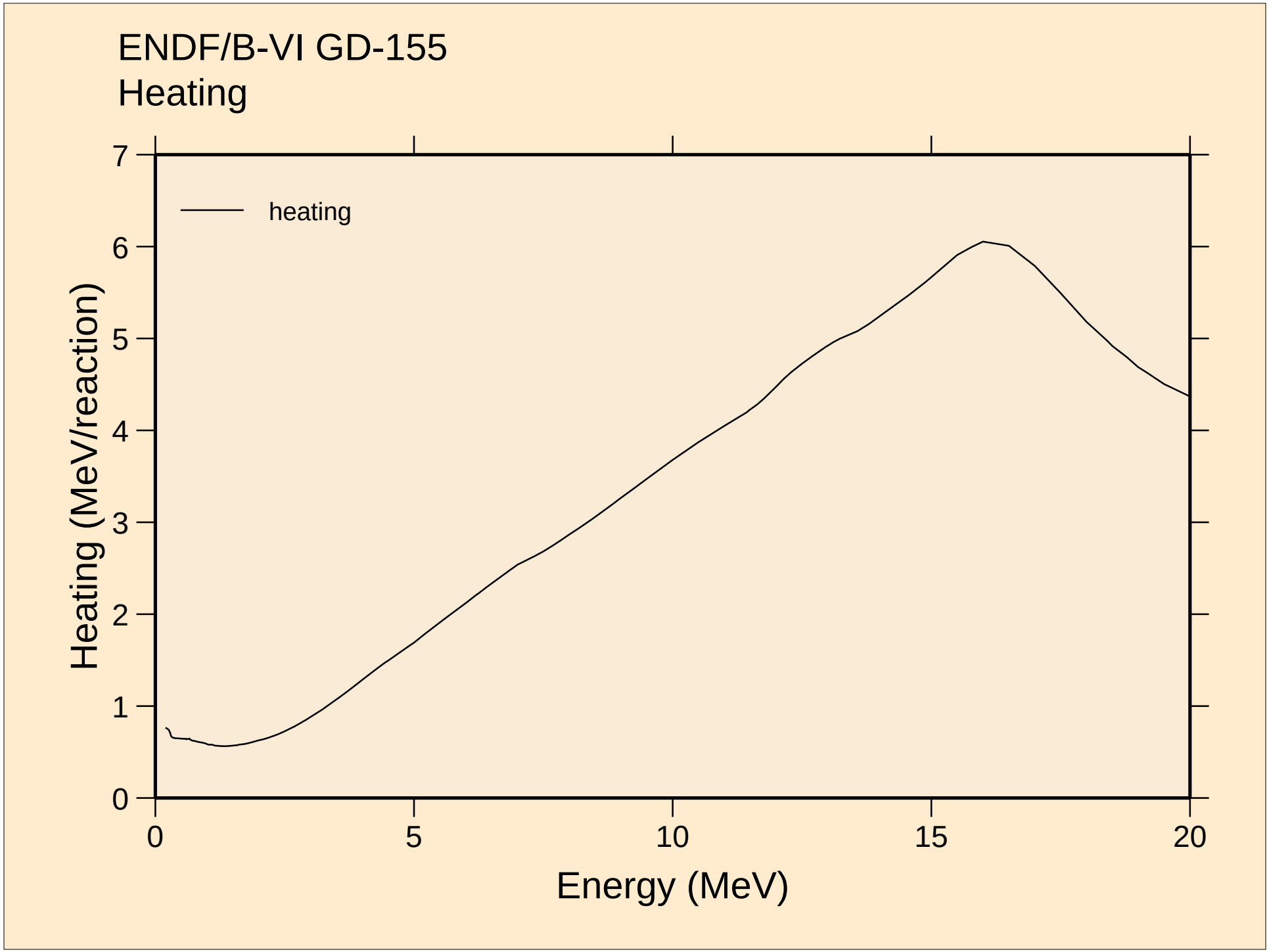

ENDF/B-VI GD-155
resonance absorption cross sections
capture
Cross section (barns)
$10^0$
$10^{-1}$
$10^0$
Energy (MeV)

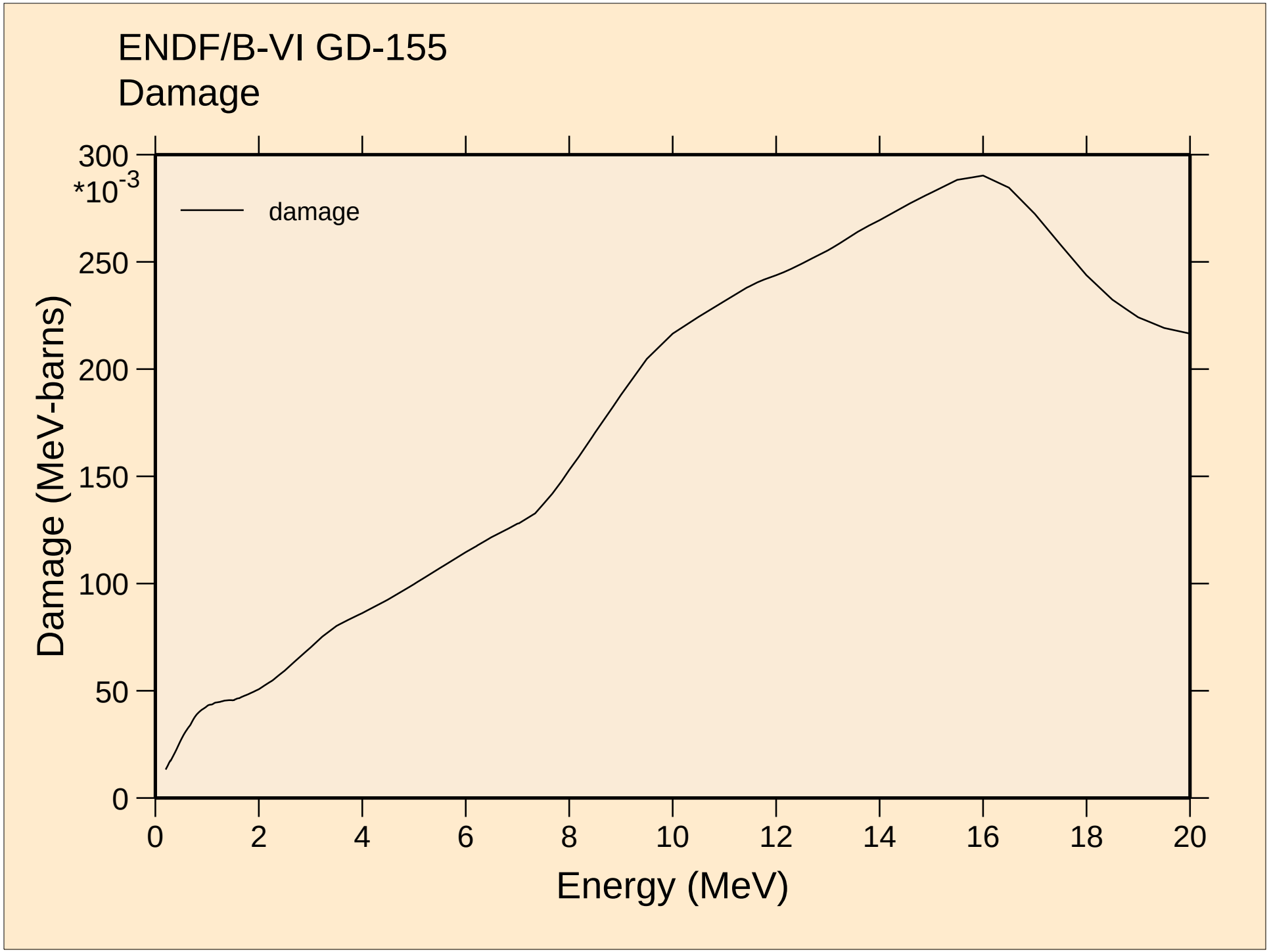

ENDF/B-VI GD-155
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
10^-11 10^-10 10^-9 10^-8 10^-7 10^-6 10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1

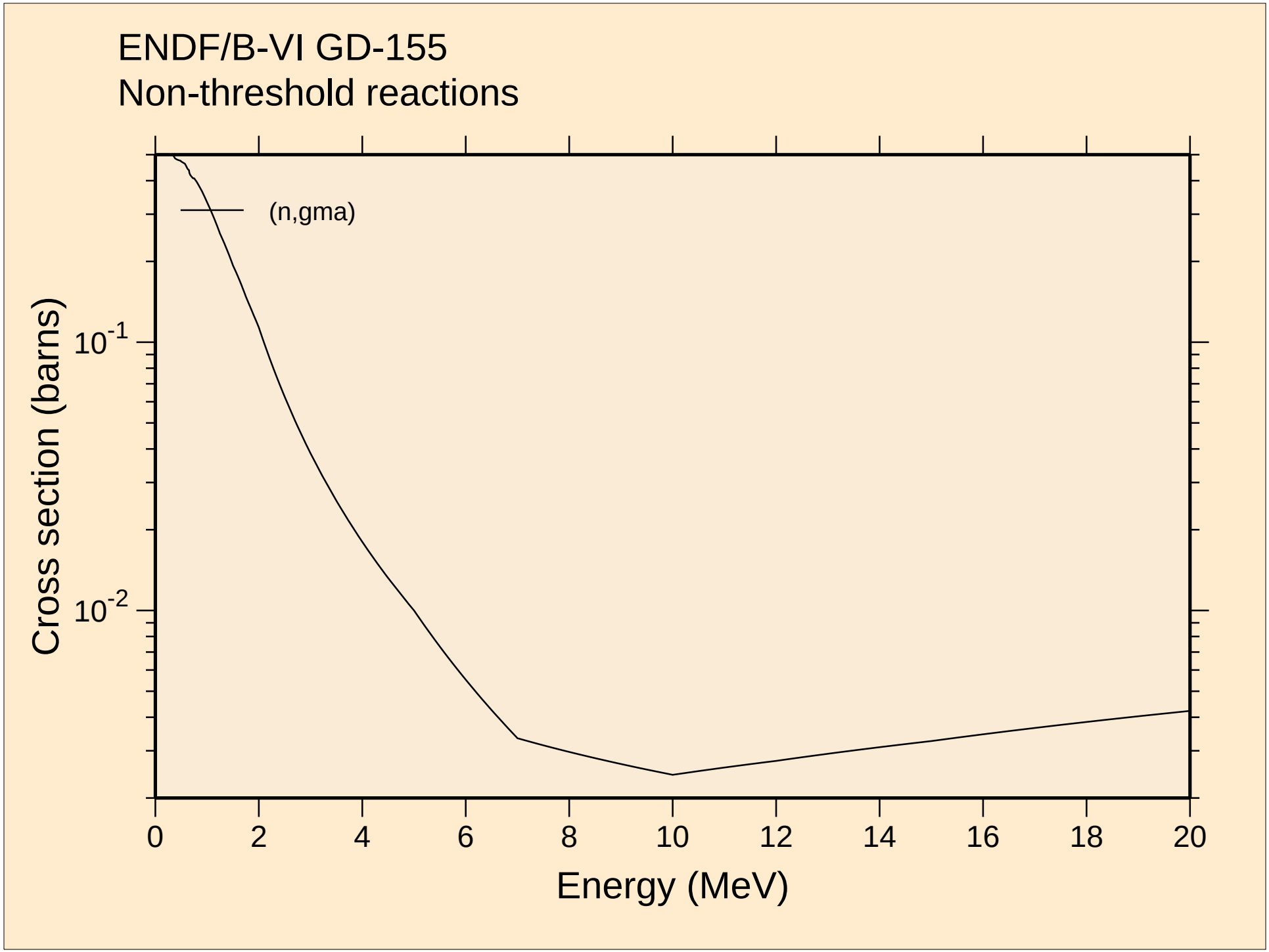

ENDF/B-VI GD-155
Damage
damage
Damage (MeV-barns)
$10^{2}$
$10^{1}$
$10^{0}$
$10^{-1}$
$10^{-2}$
$10^{-3}$
$10^{-11}$ $10^{-10}$ $10^{-9}$ $10^{-8}$ $10^{-7}$ $10^{-6}$ $10^{-5}$ $10^{-4}$ $10^{-3}$ $10^{-2}$ $10^{-1}$ $10^{0}$ $10^{1}$
Energy (MeV)

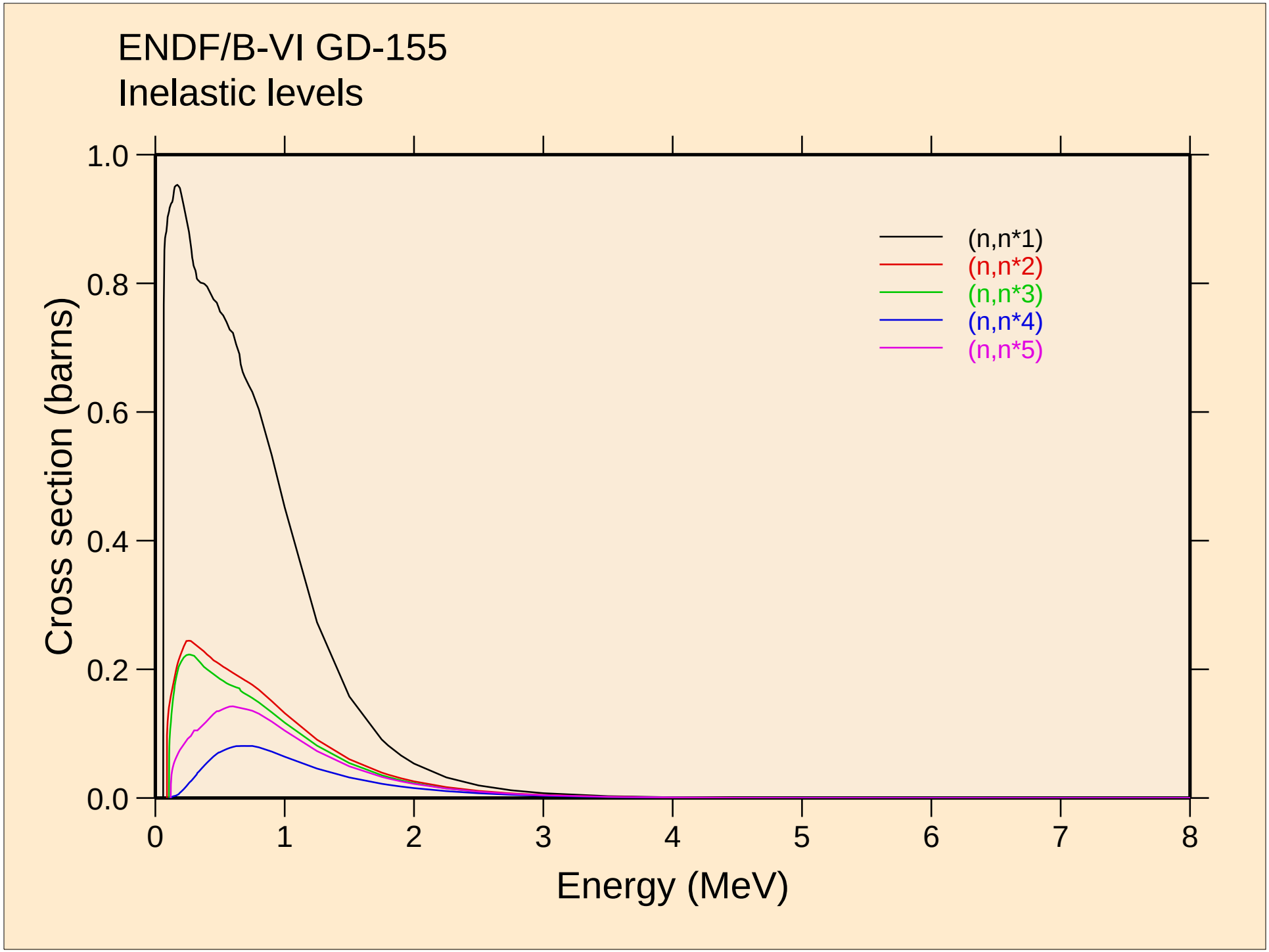

ENDF/B-VI GD-155
Non-threshold reactions
(n,gma)
Cross section (barns)
10^6
10^5
10^4
10^3
10^2
10^1
10^-11 10^-10 10^-9 10^-8 10^-7 10^-6 10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1
Energy (MeV)

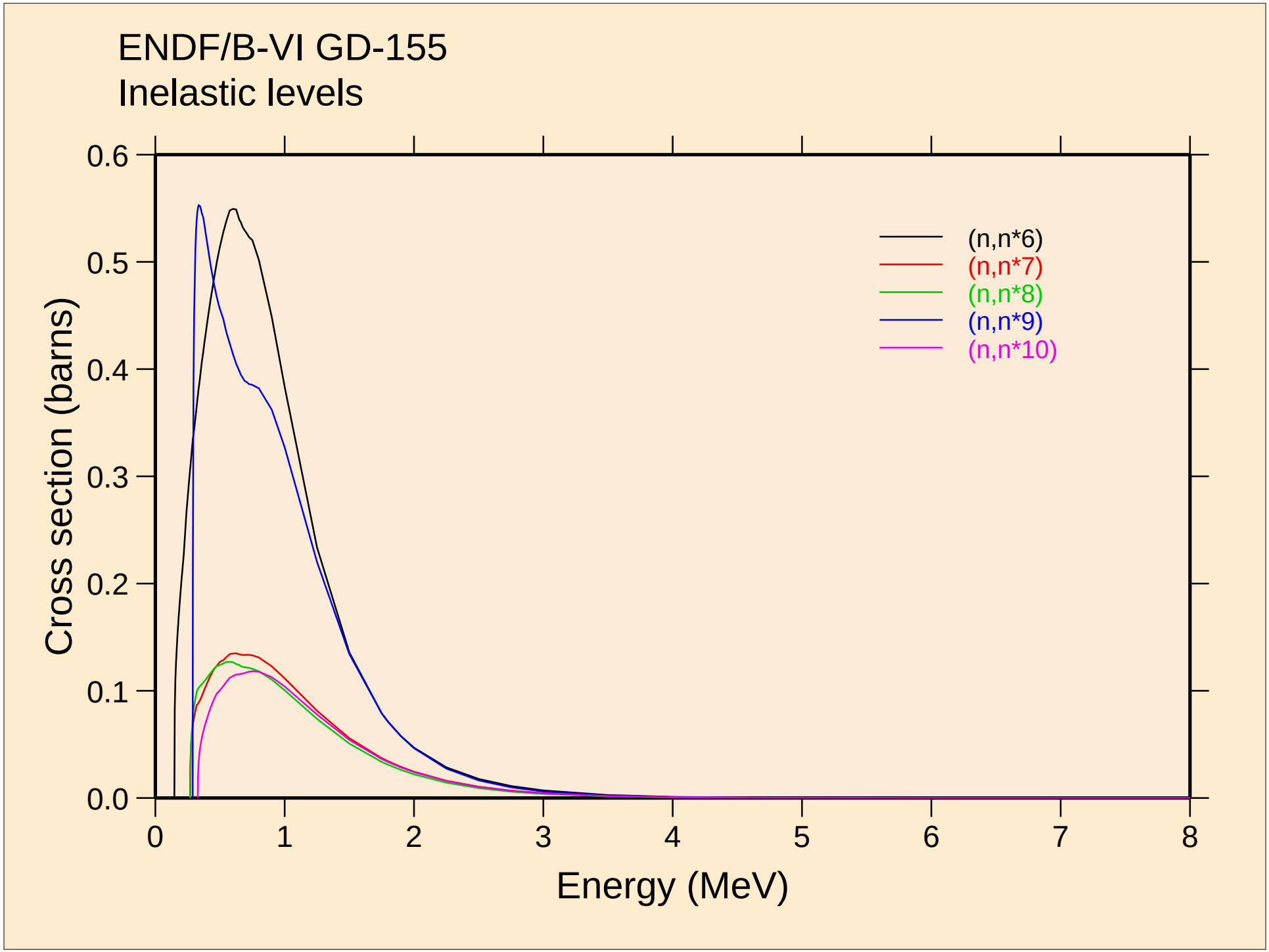

ENDF/B-VI GD-155
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
0
1
2
3
4
5
6
7
2
4
6
8
10
12
14
16
18
20

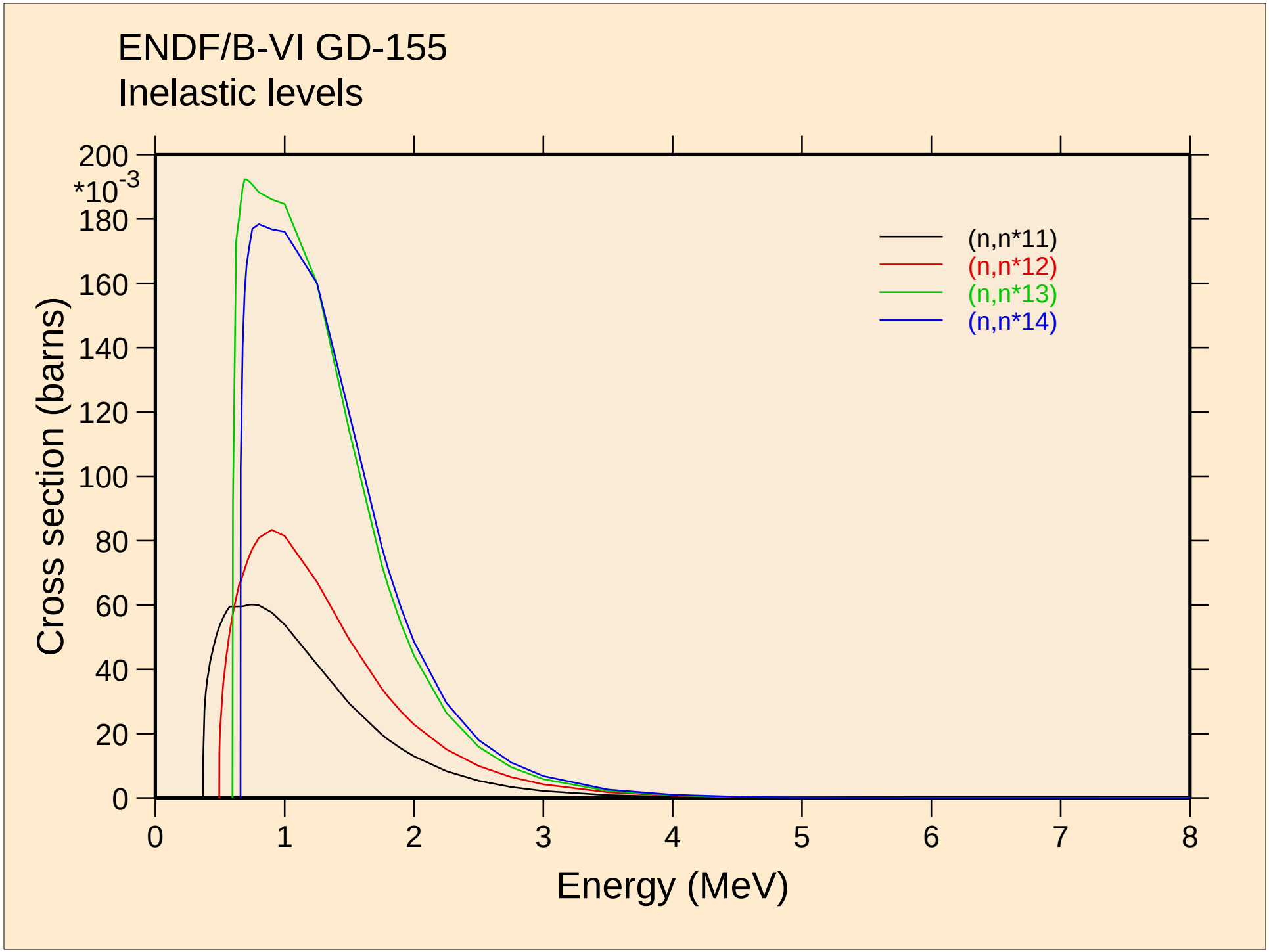

ENDF/B-VI GD-155
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
1
2
3
4
5
6
7
0
5
10
15
20

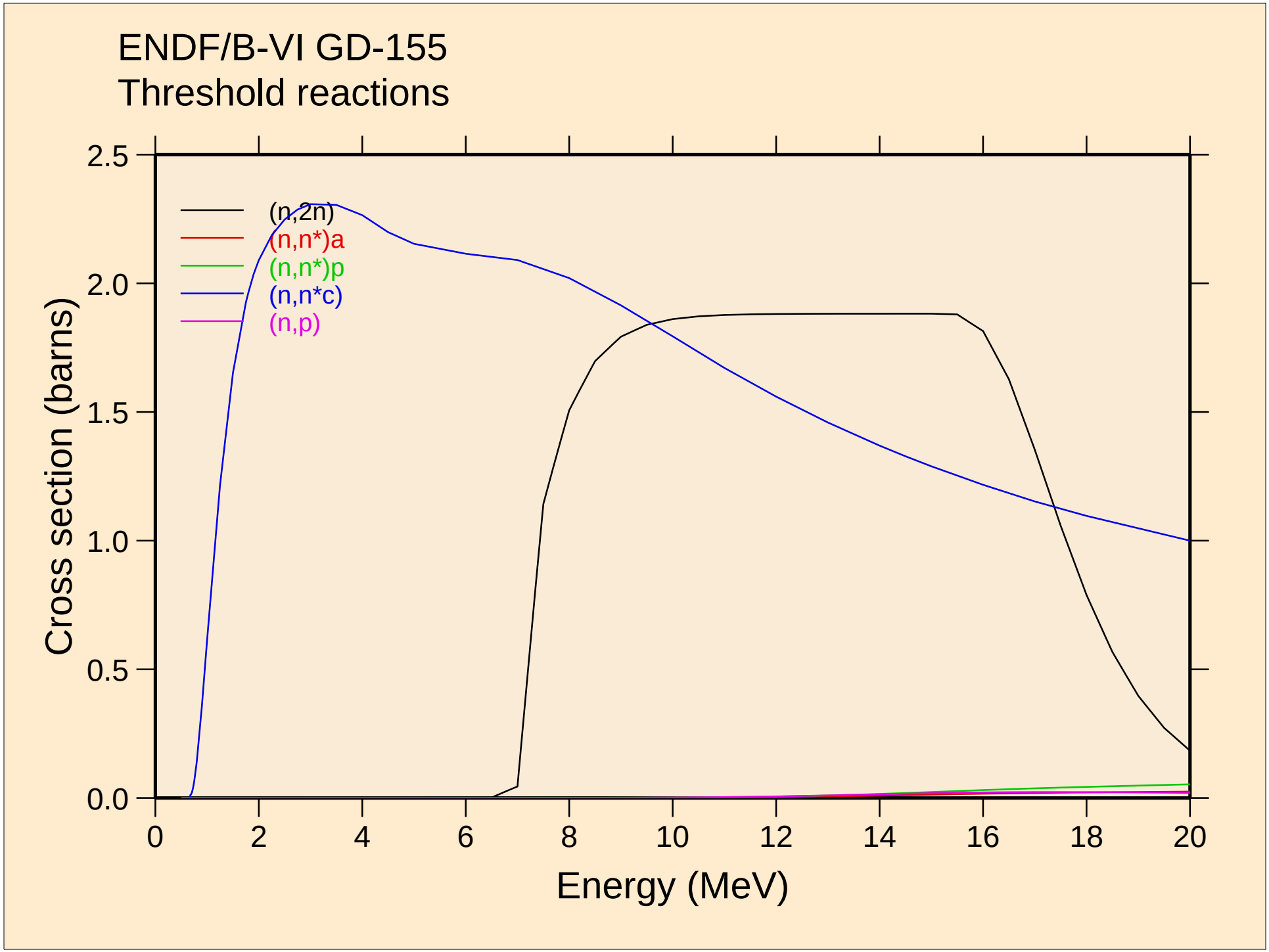

ENDF/B-VI GD-155
Damage
300
*10-3
250
200
150
100
50
0
damage
Damage (MeV-barns)
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

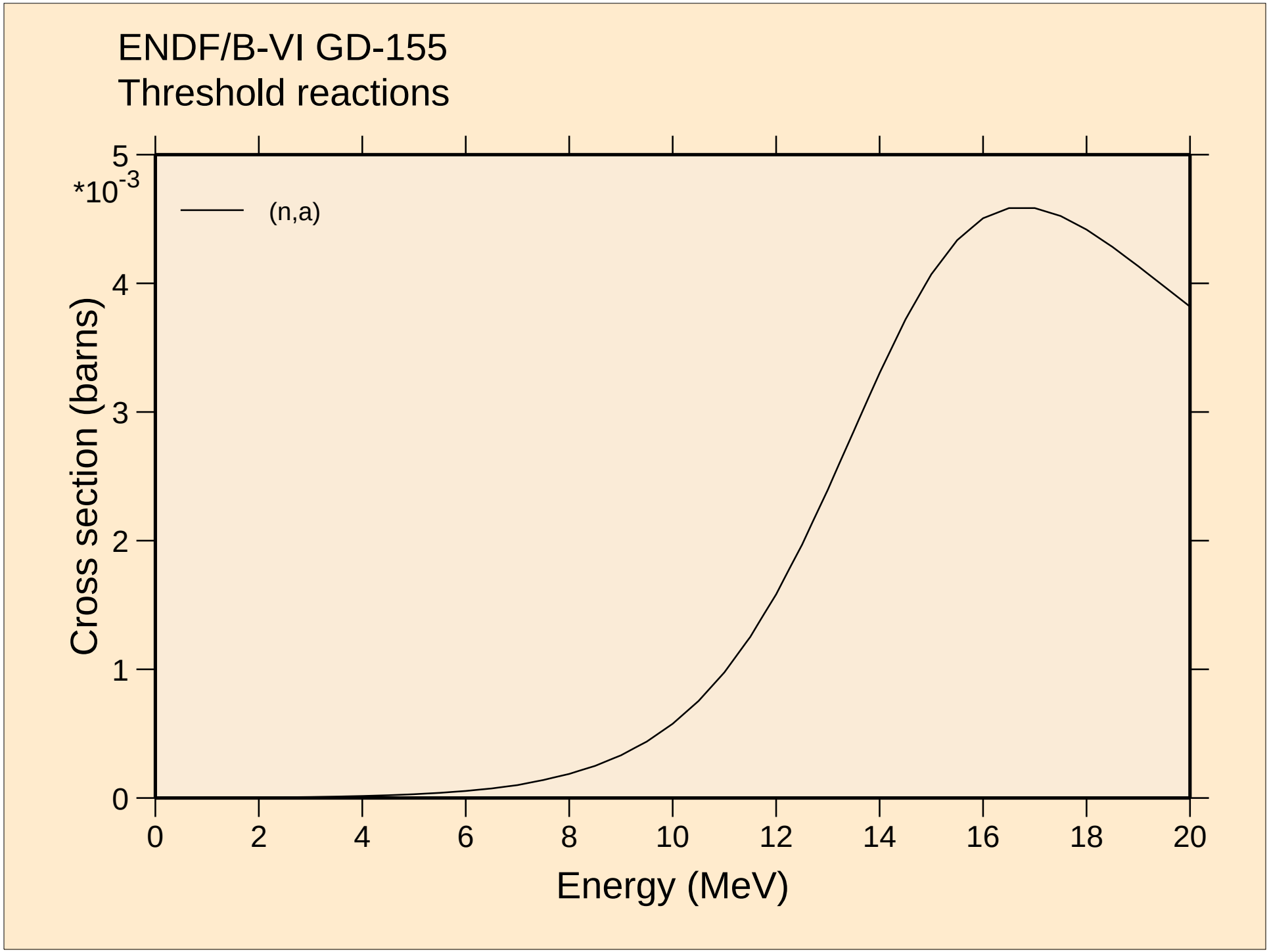

ENDF/B-VI GD-155
Non-threshold reactions
(n,gma)
Cross section (barns)
10-1
10-2
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

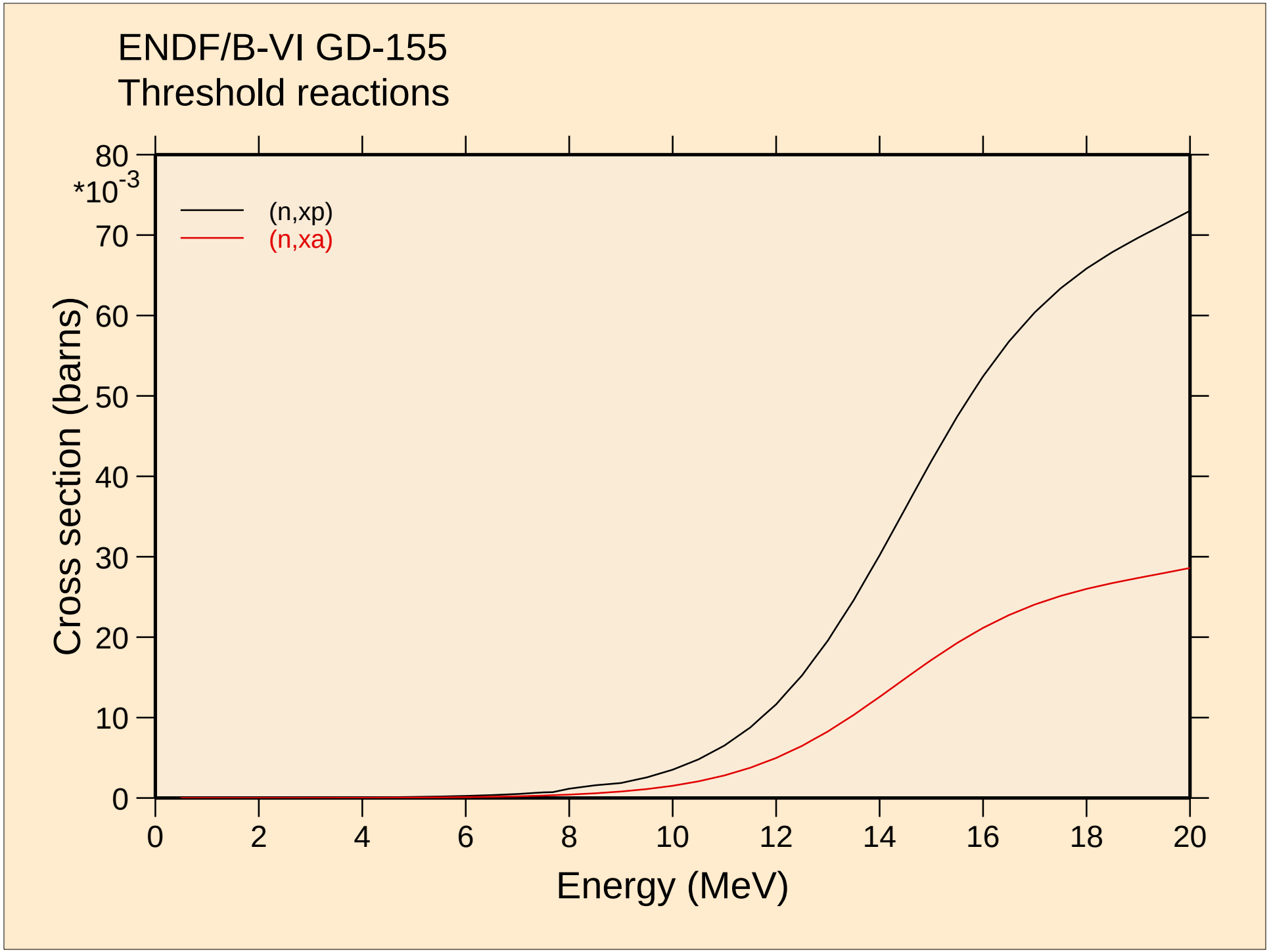

ENDF/B-VI GD-155
Inelastic levels
Cross section (barns)
Energy (MeV)
1.0
0.8
0.6
0.4
0.2
0.0
0
1
2
3
4
5
6
7
8
(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)

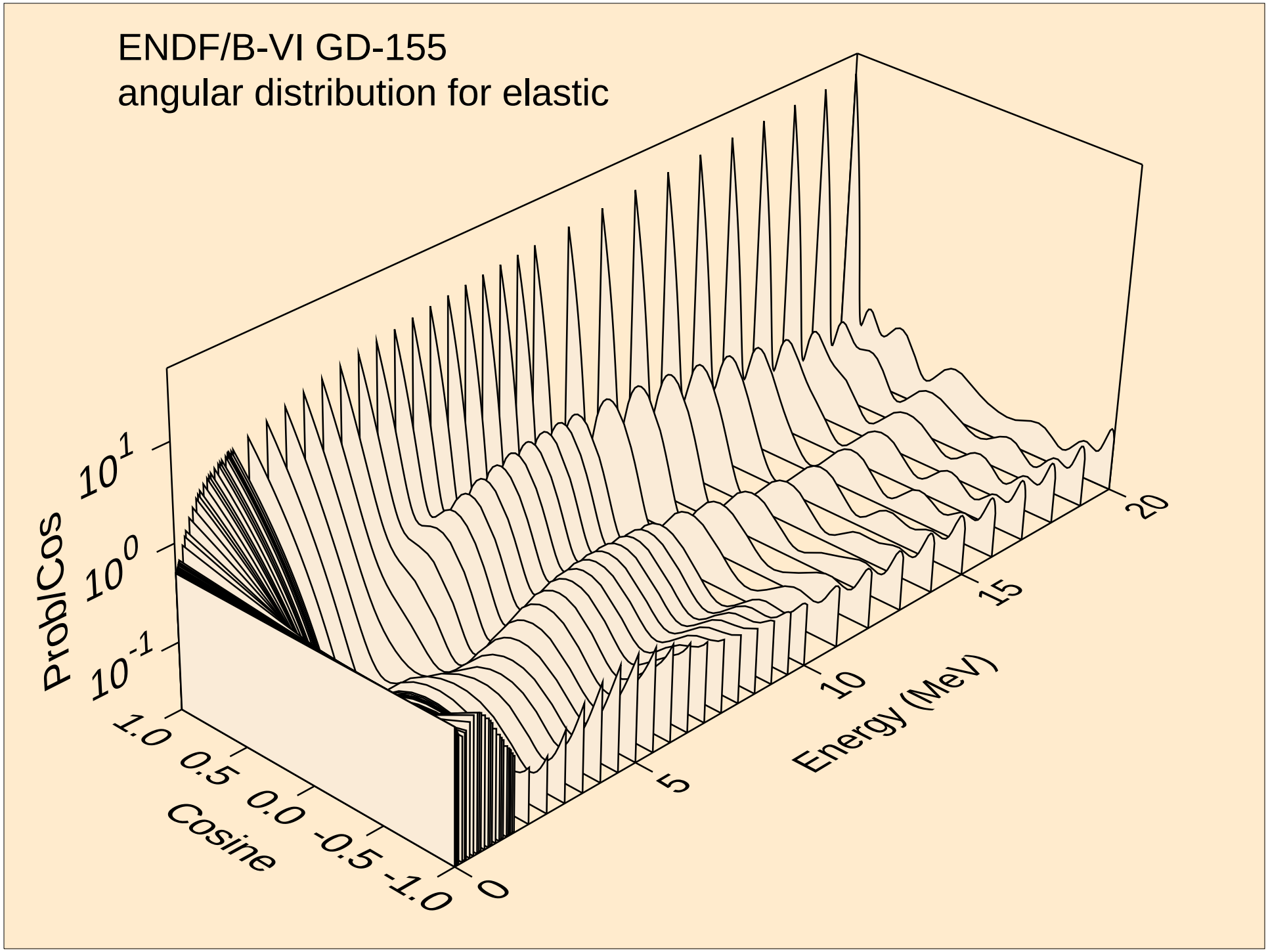

ENDF/B-VI GD-155
Inelastic levels
Cross section (barns)
Energy (MeV)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
1
2
3
4
5
6
7
8
(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)
(n,n*10)

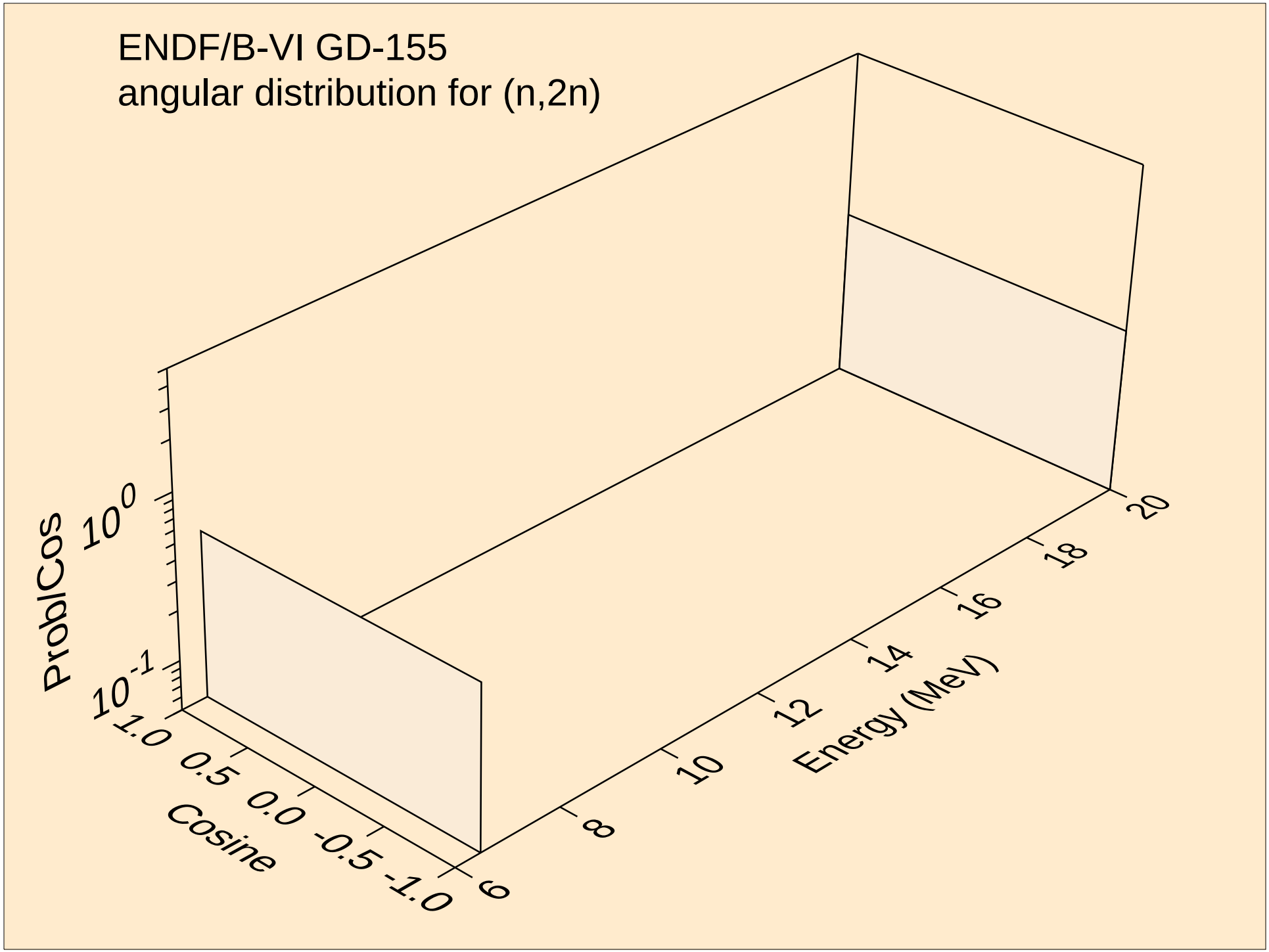

ENDF/B-VI GD-155
Inelastic levels
Cross section (barns)
*10-3
200
180
160
140
120
100
80
60
40
20
0
0
1
2
3
4
5
6
7
8
Energy (MeV)
(n,n*11)
(n,n*12)
(n,n*13)
(n,n*14)

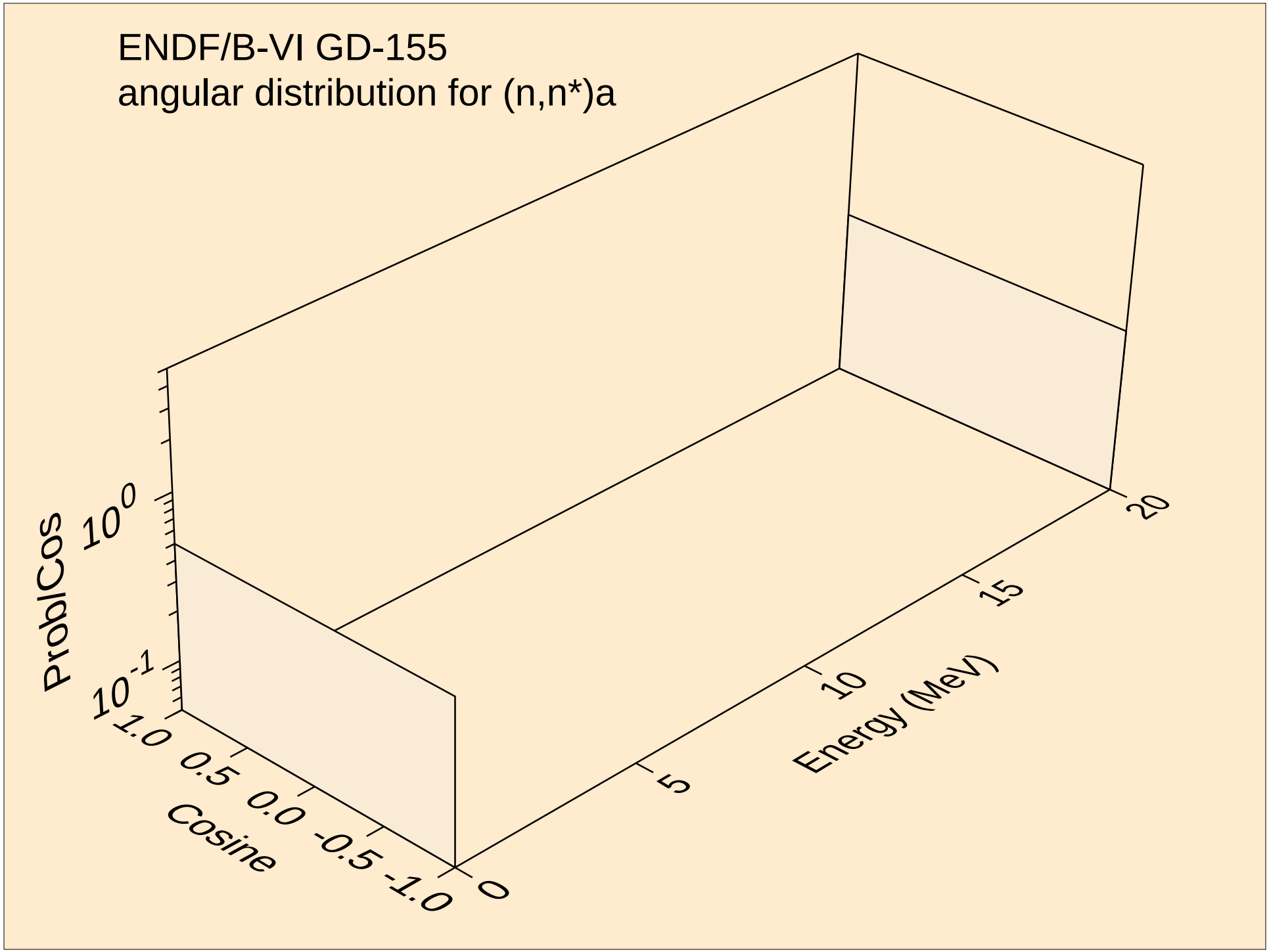

ENDF/B-VI GD-155
Threshold reactions
(n,2n)
(n,n*)a
(n,n*)p
(n,n*c)
(n,p)
Cross section (barns)
Energy (MeV)
0.0
0.5
1.0
1.5
2.0
2.5
0
2
4
6
8
10
12
14
16
18
20

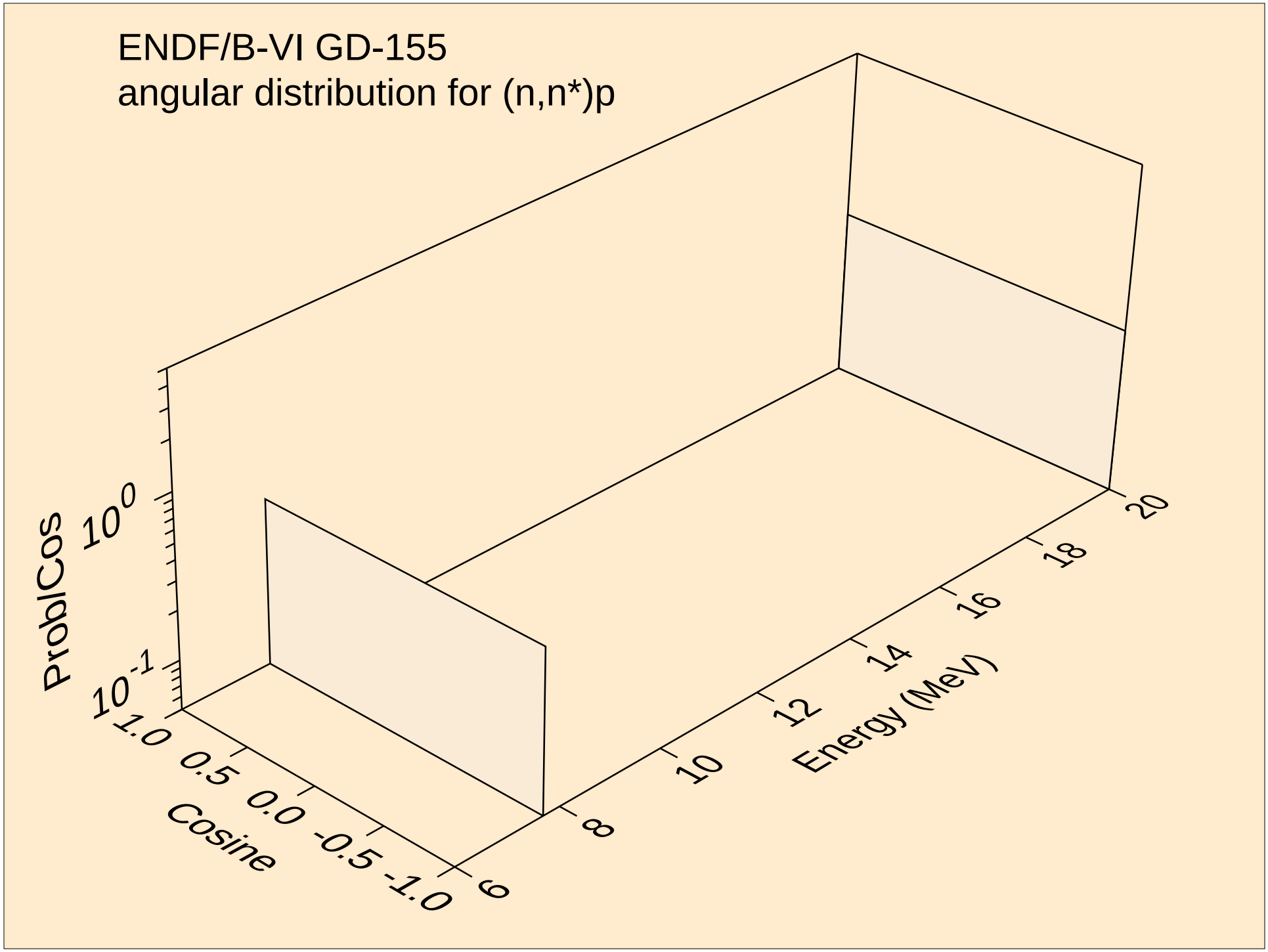

ENDF/B-VI GD-155
Threshold reactions
*10-3
(n,a)
Cross section (barns)
0
1
2
3
4
5
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

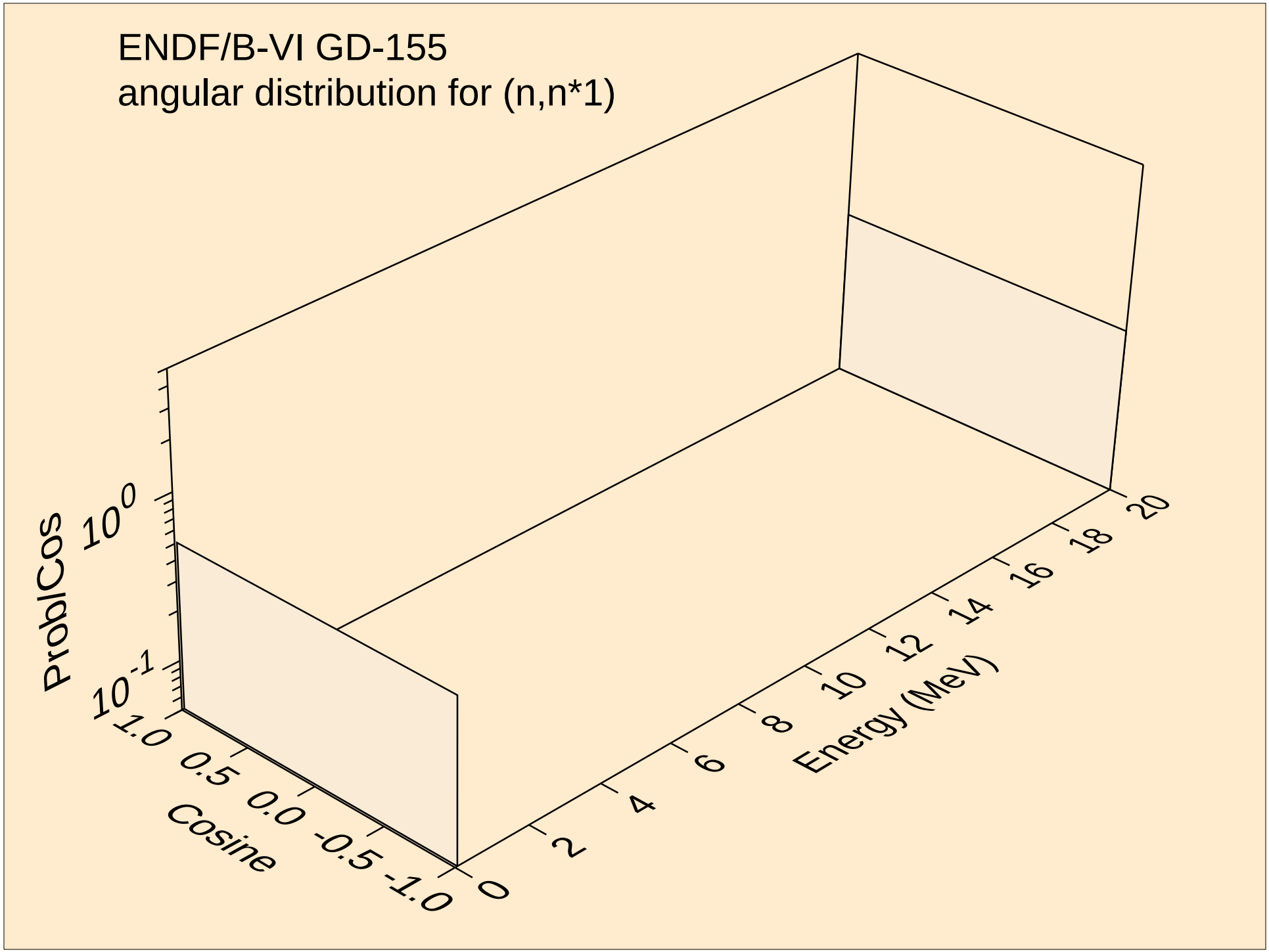

ENDF/B-VI GD-155
Threshold reactions
*10-3
(n,xp)
(n,xa)
Cross section (barns)
Energy (MeV)
0
10
20
30
40
50
60
70
80
0
2
4
6
8
10
12
14
16
18
20

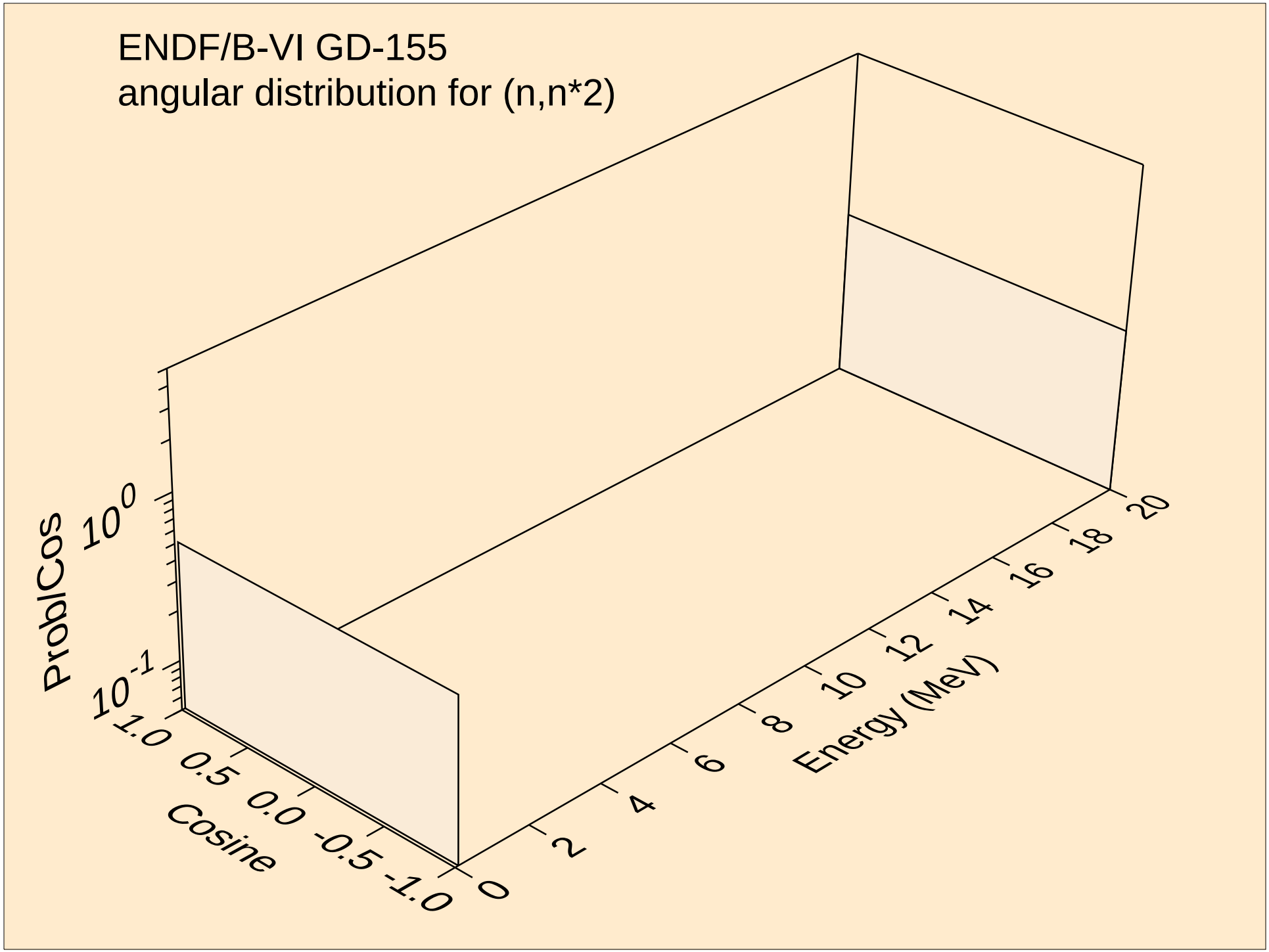

ENDF/B-VI GD-155
angular distribution for elastic
ProbICos
$10^{1}$
$10^{0}$
$10^{-1}$
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

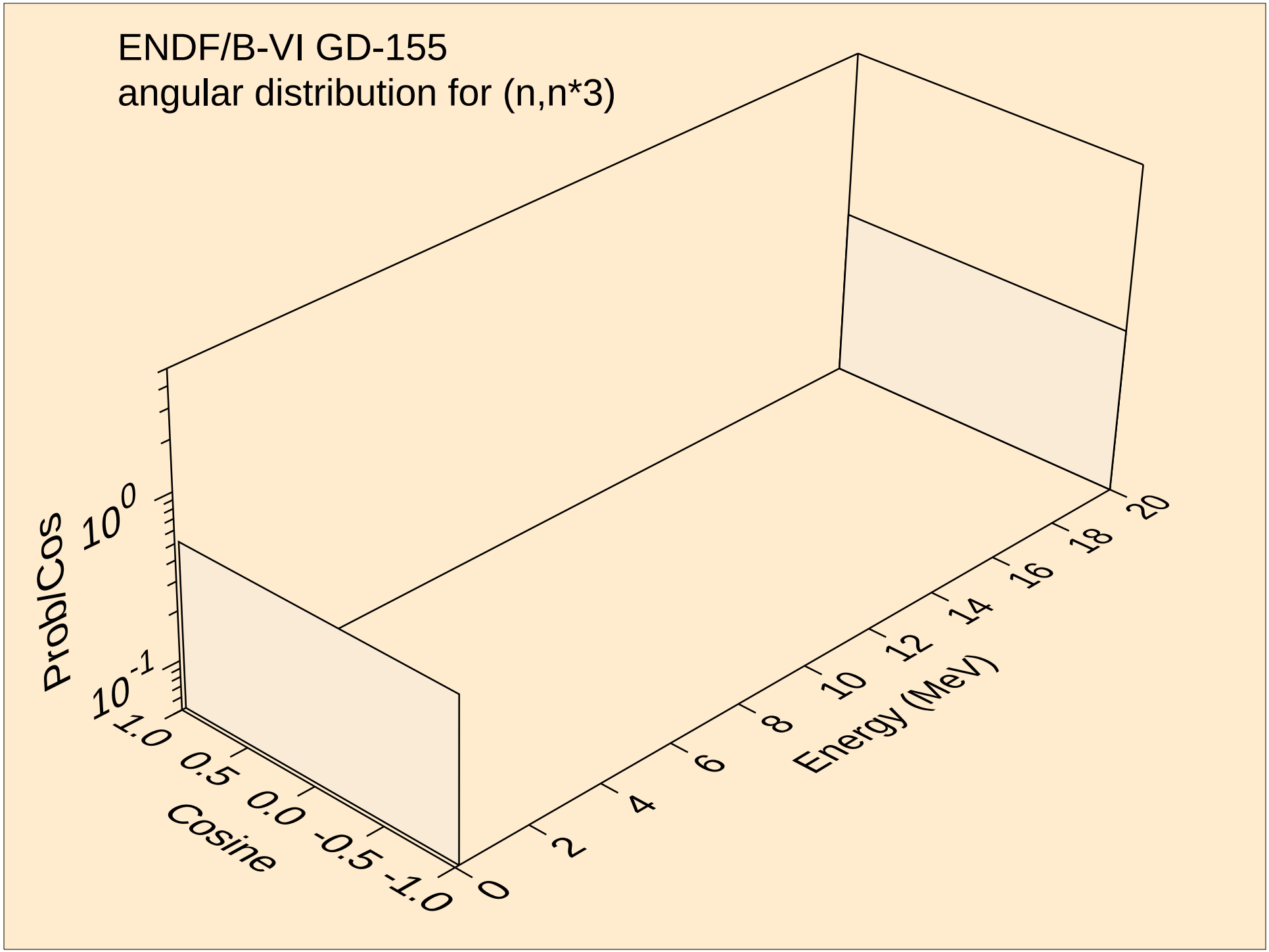

ENDF/B-VI GD-155
angular distribution for (n,2n)
Prob\Cos
$10^{0}$
$10^{-1}$
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

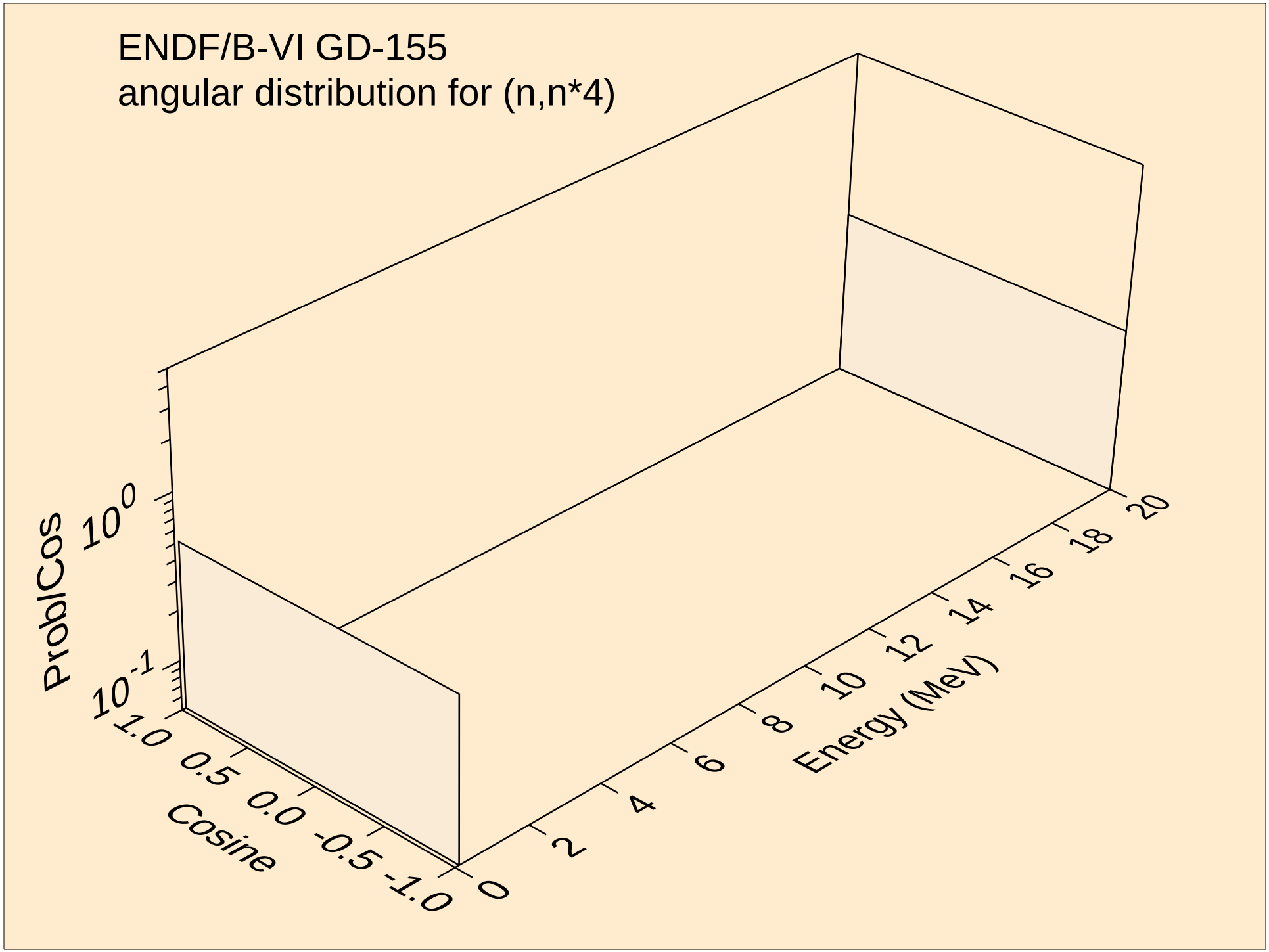

ENDF/B-VI GD-155
angular distribution for (n,n*)a
Prob\Cos
$10^{0}$
$10^{-1}$
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

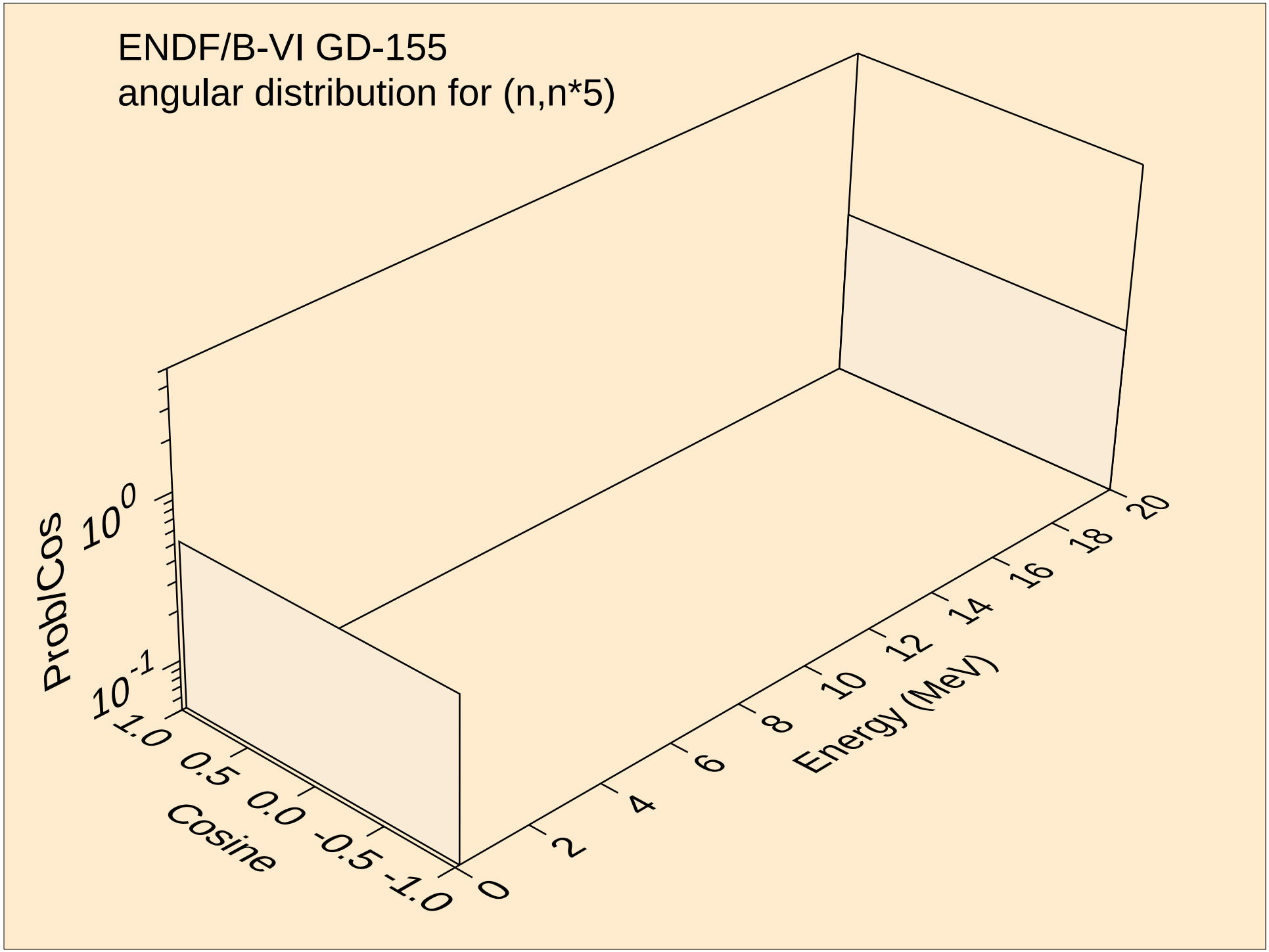

ENDF/B-VI GD-155
angular distribution for (n,n*)p
Prob\Cos
$10^{0}$
$10^{-1}$
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

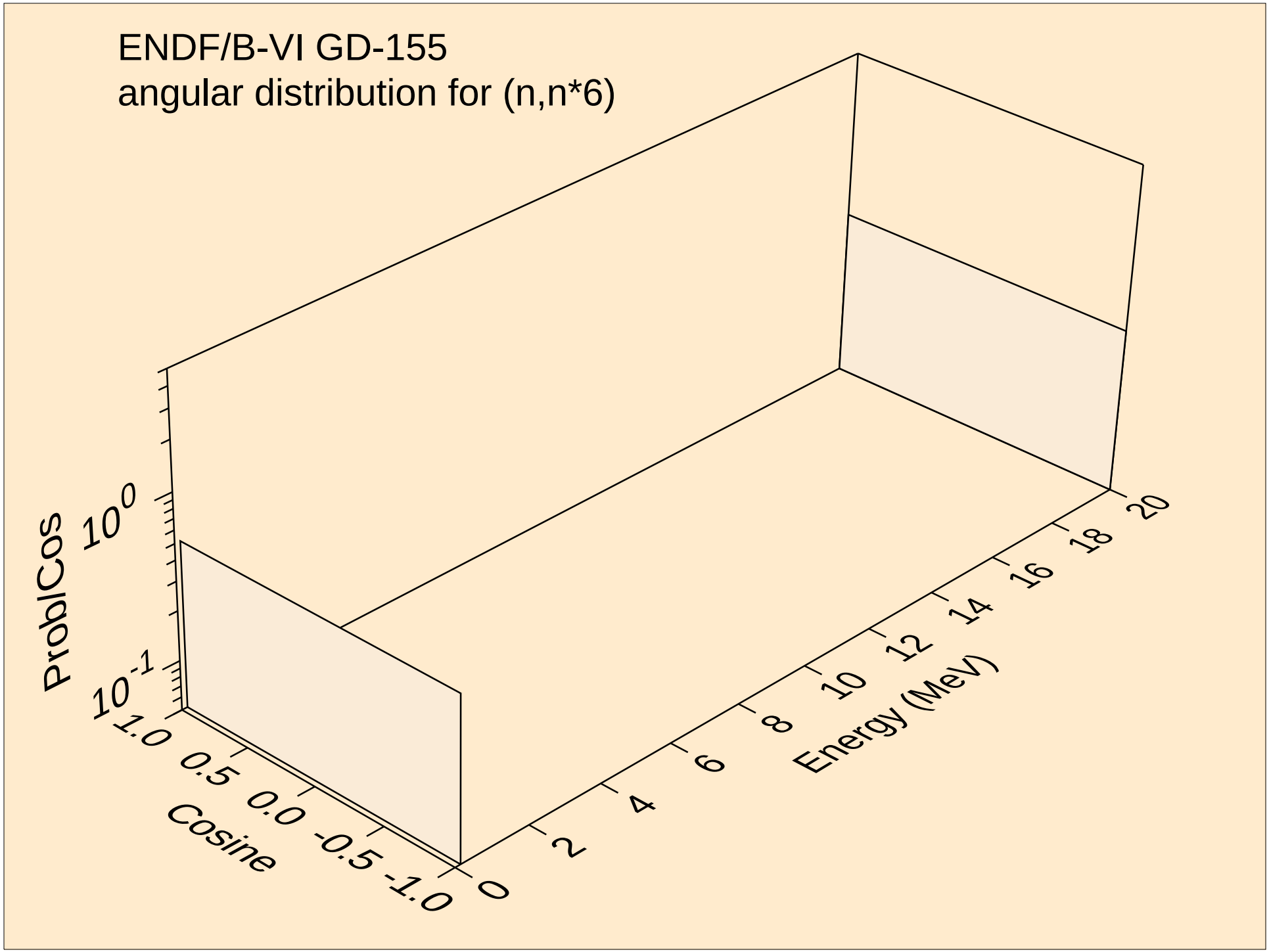

ENDF/B-VI GD-155
angular distribution for (n,n*1)
Prob\Cos
$10^{0}$
$10^{-1}$
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

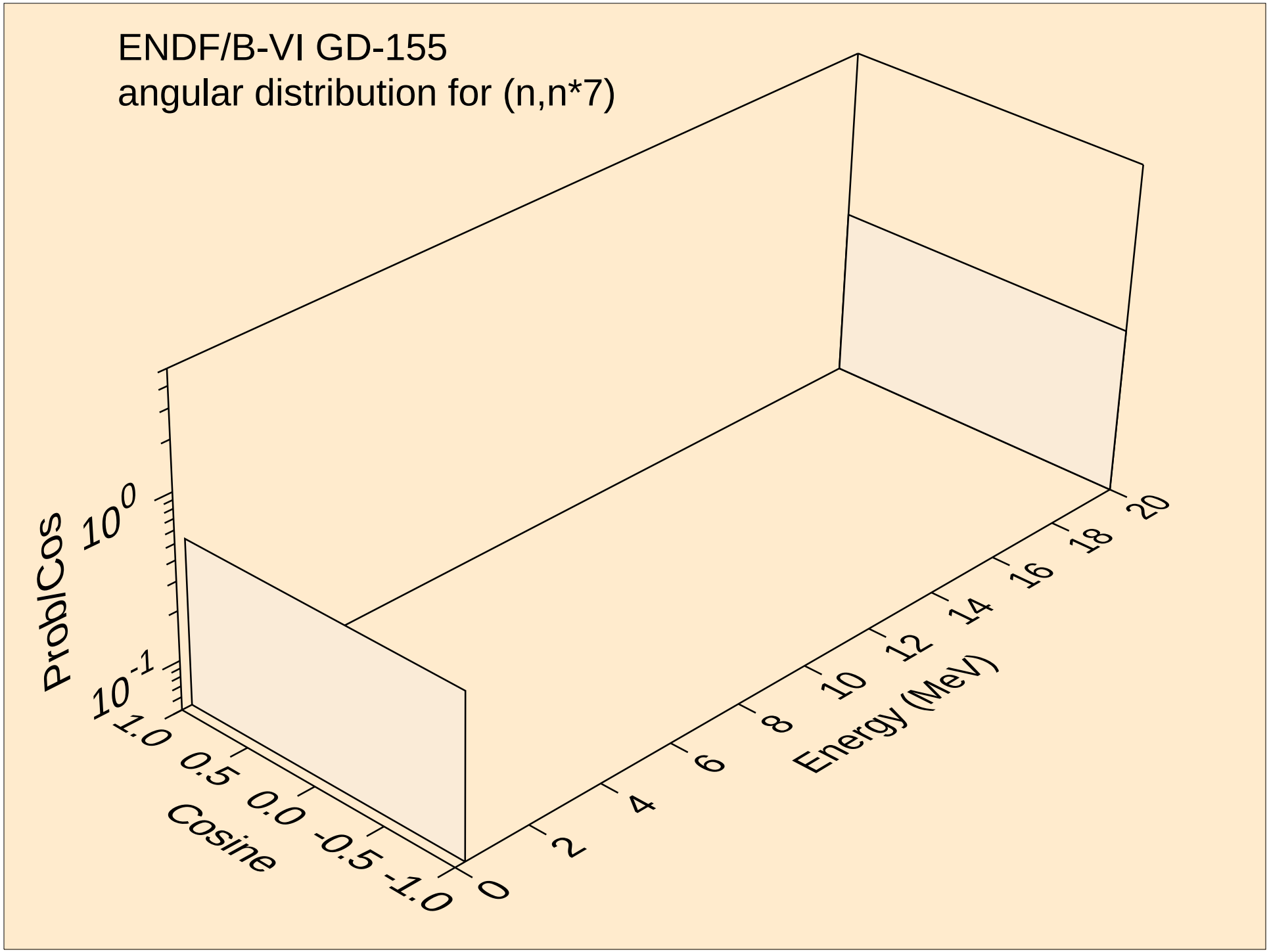

ENDF/B-VI GD-155
angular distribution for (n,n*2)
Prob\Cos
$10^{0}$
$10^{-1}$
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

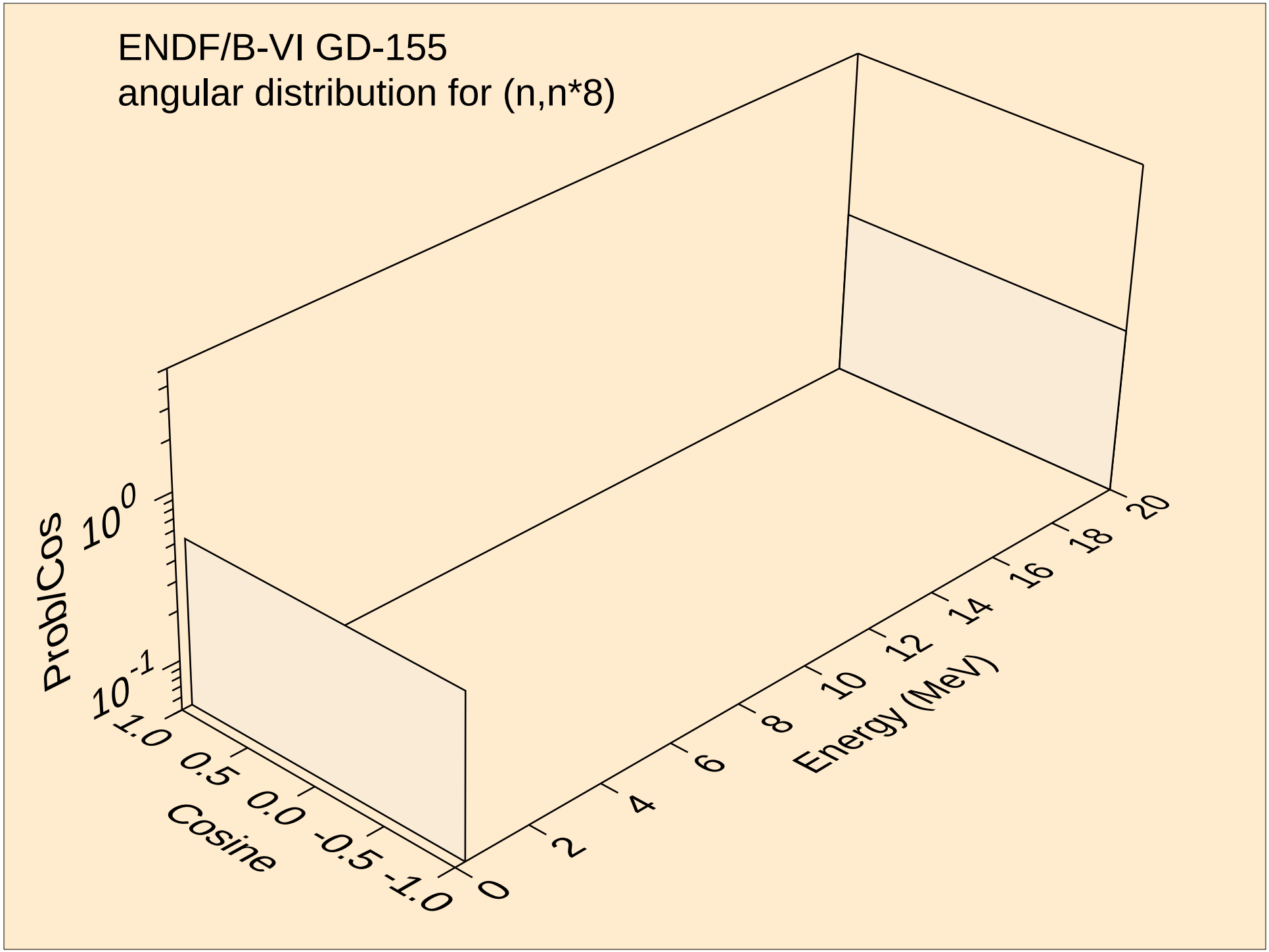

ENDF/B-VI GD-155
angular distribution for (n,n*3)
Prob\Cos
$10^{0}$
$10^{-1}$
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

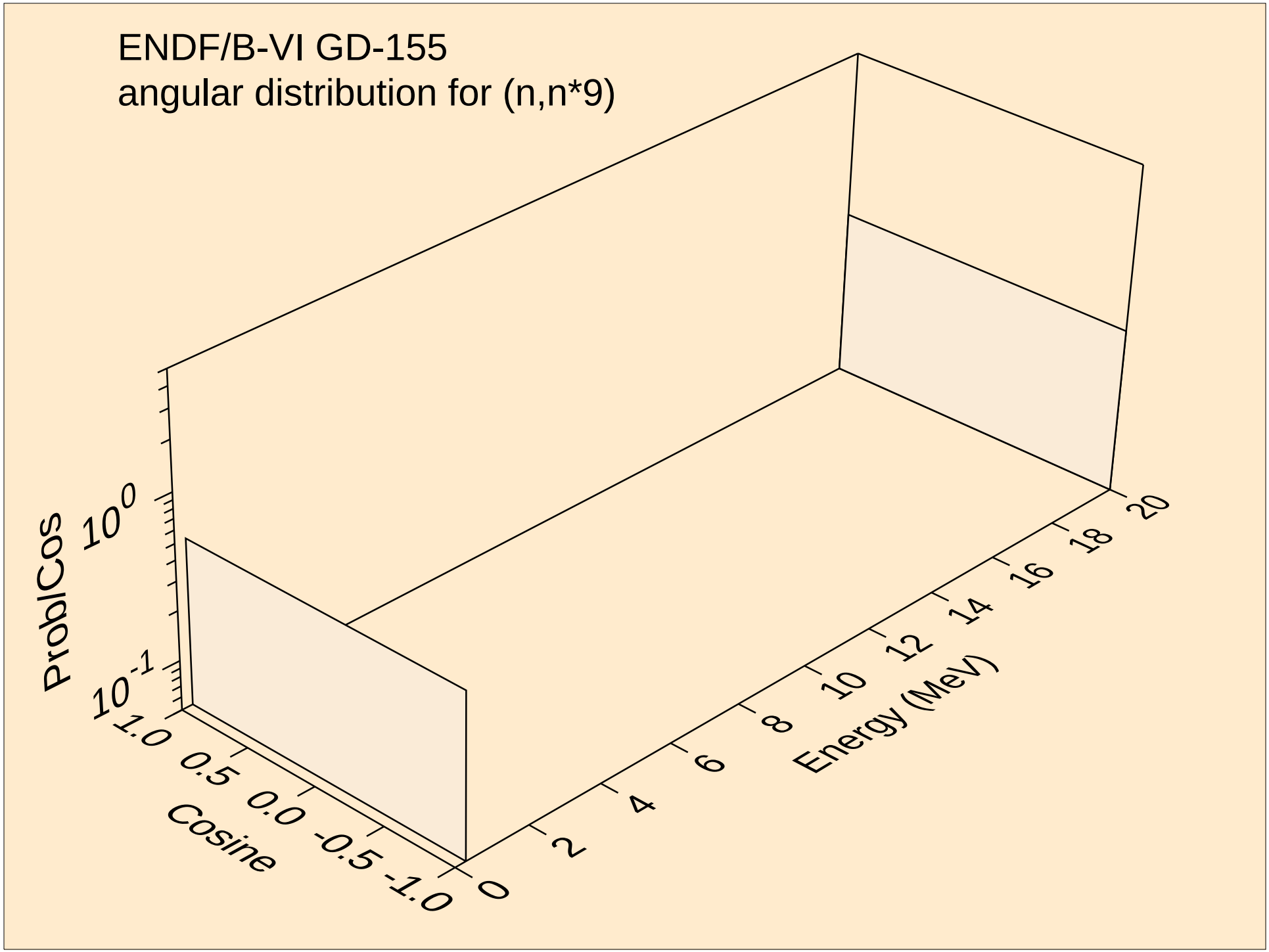

ENDF/B-VI GD-155
angular distribution for (n,n*4)
Prob\Cos
$10^{0}$
$10^{-1}$
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

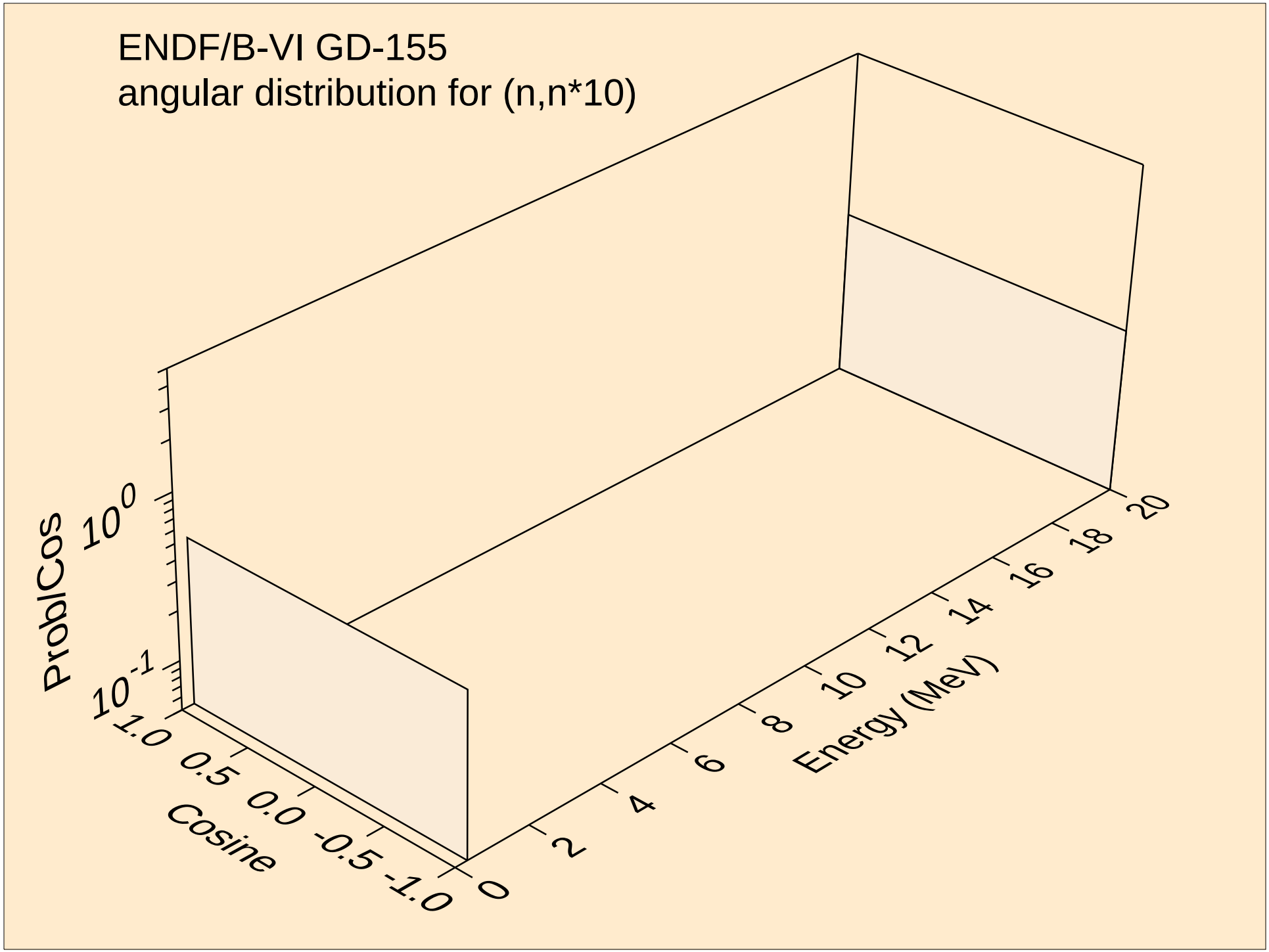

ENDF/B-VI GD-155
angular distribution for (n,n*5)
Prob\Cos
$10^{0}$
$10^{-1}$
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

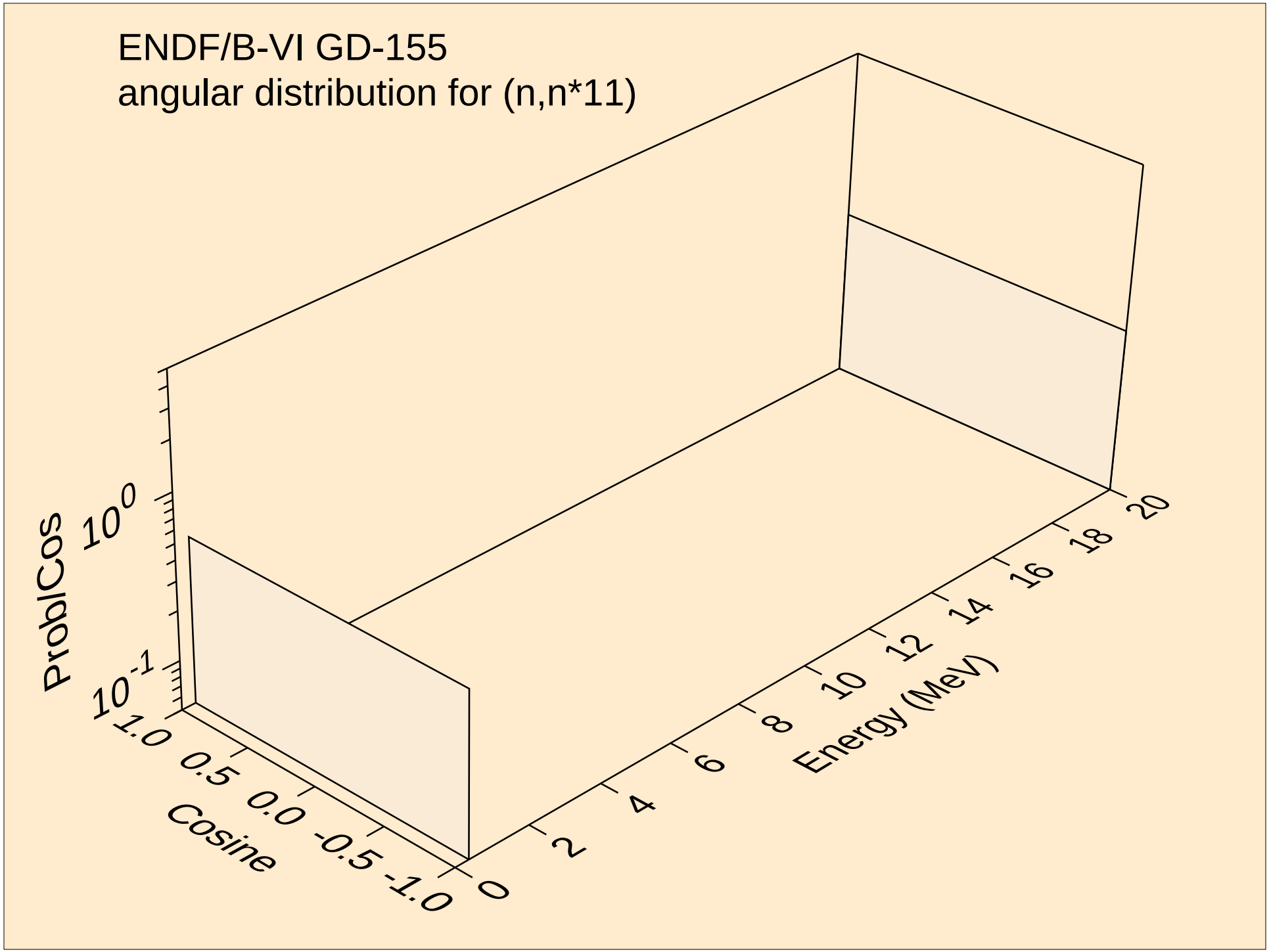

ENDF/B-VI GD-155
angular distribution for (n,n*6)
Prob\Cos
$10^{0}$
$10^{-1}$
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

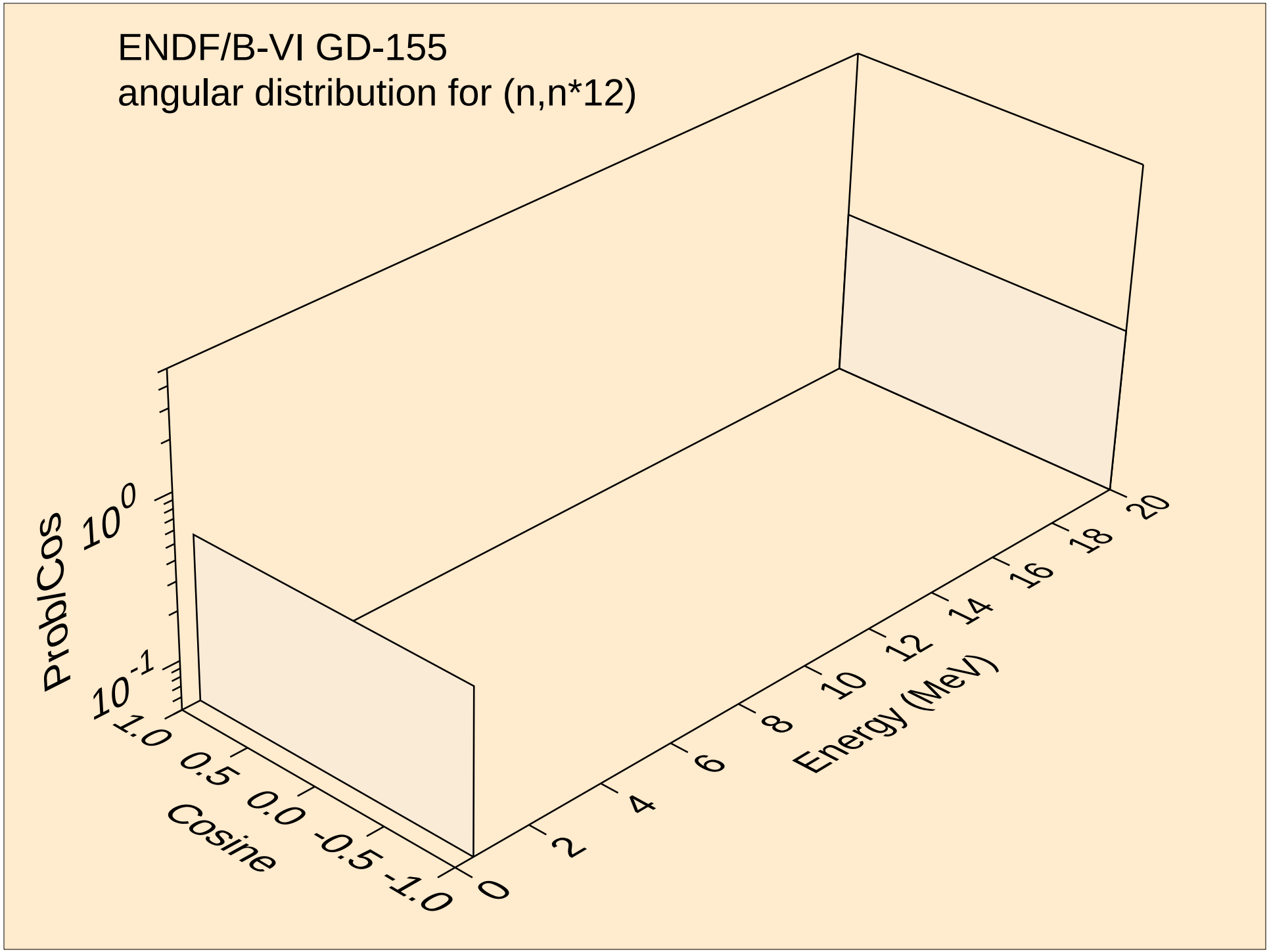

ENDF/B-VI GD-155
angular distribution for (n,n*7)
Prob\Cos
$10^{0}$
$10^{-1}$
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

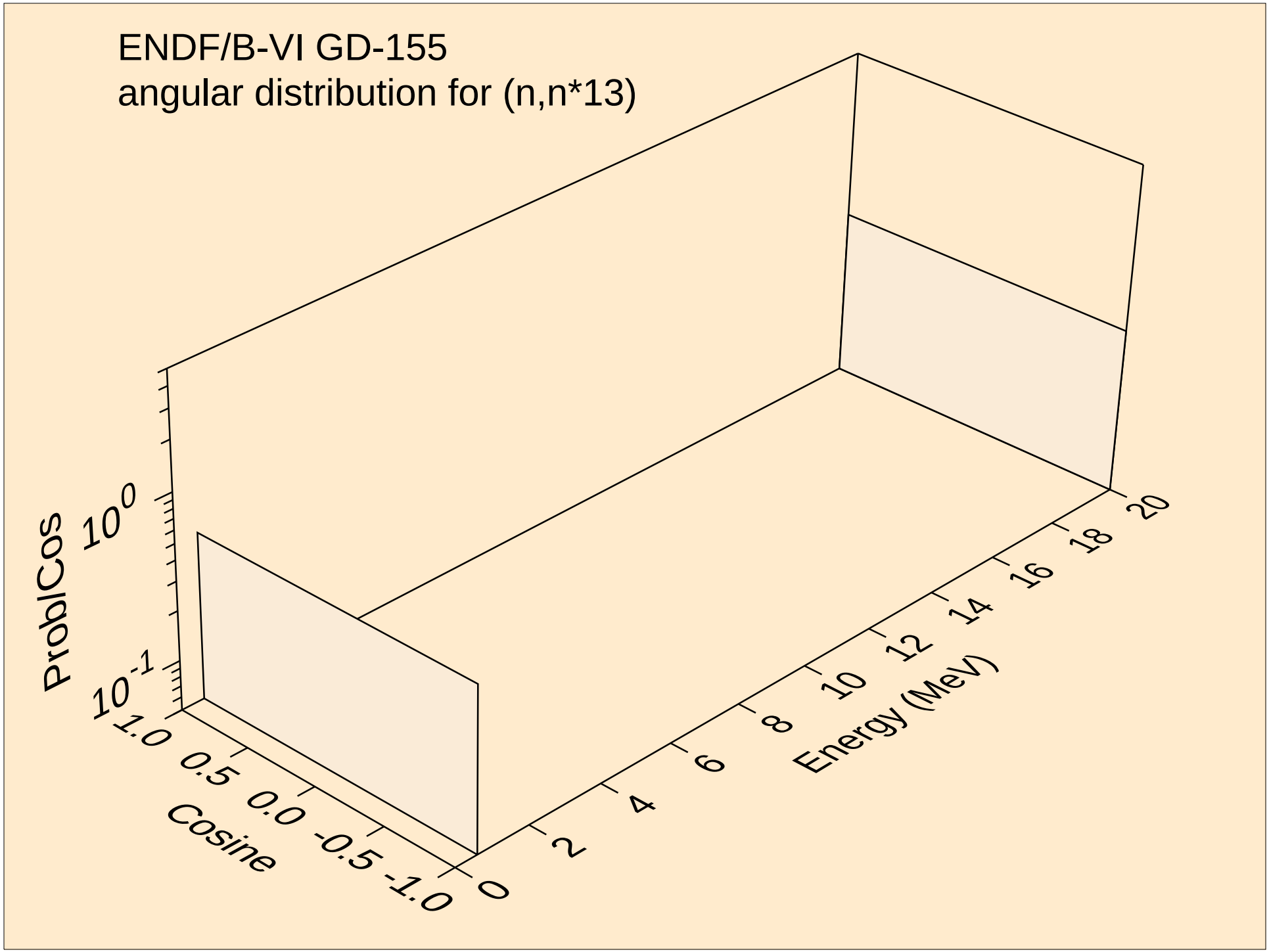

ENDF/B-VI GD-155
angular distribution for (n,n*8)
ProbICos
$10^{0}$
$10^{-1}$
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

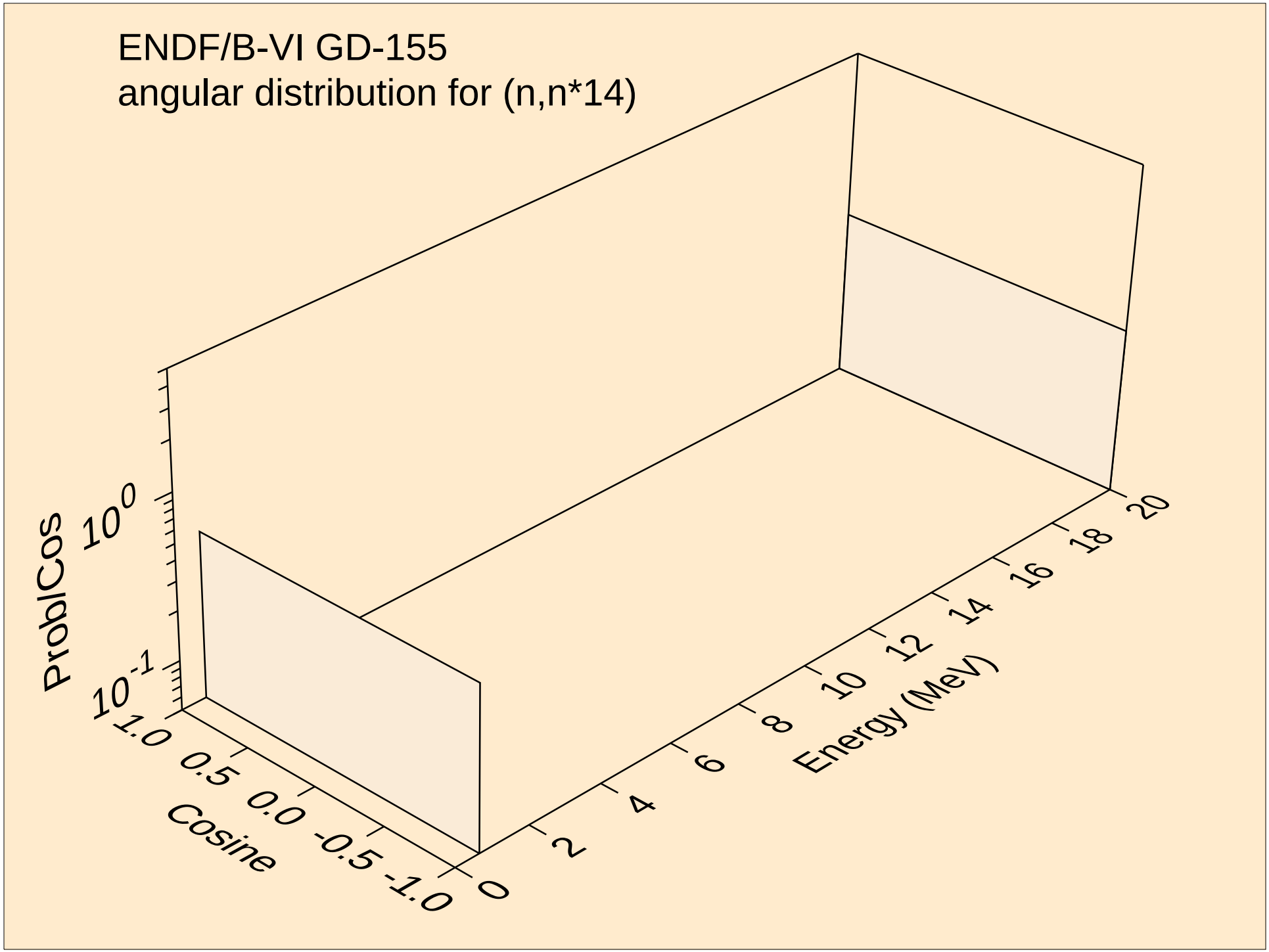

ENDF/B-VI GD-155
angular distribution for (n,n*9)
Prob\Cos
$10^{0}$
$10^{-1}$
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

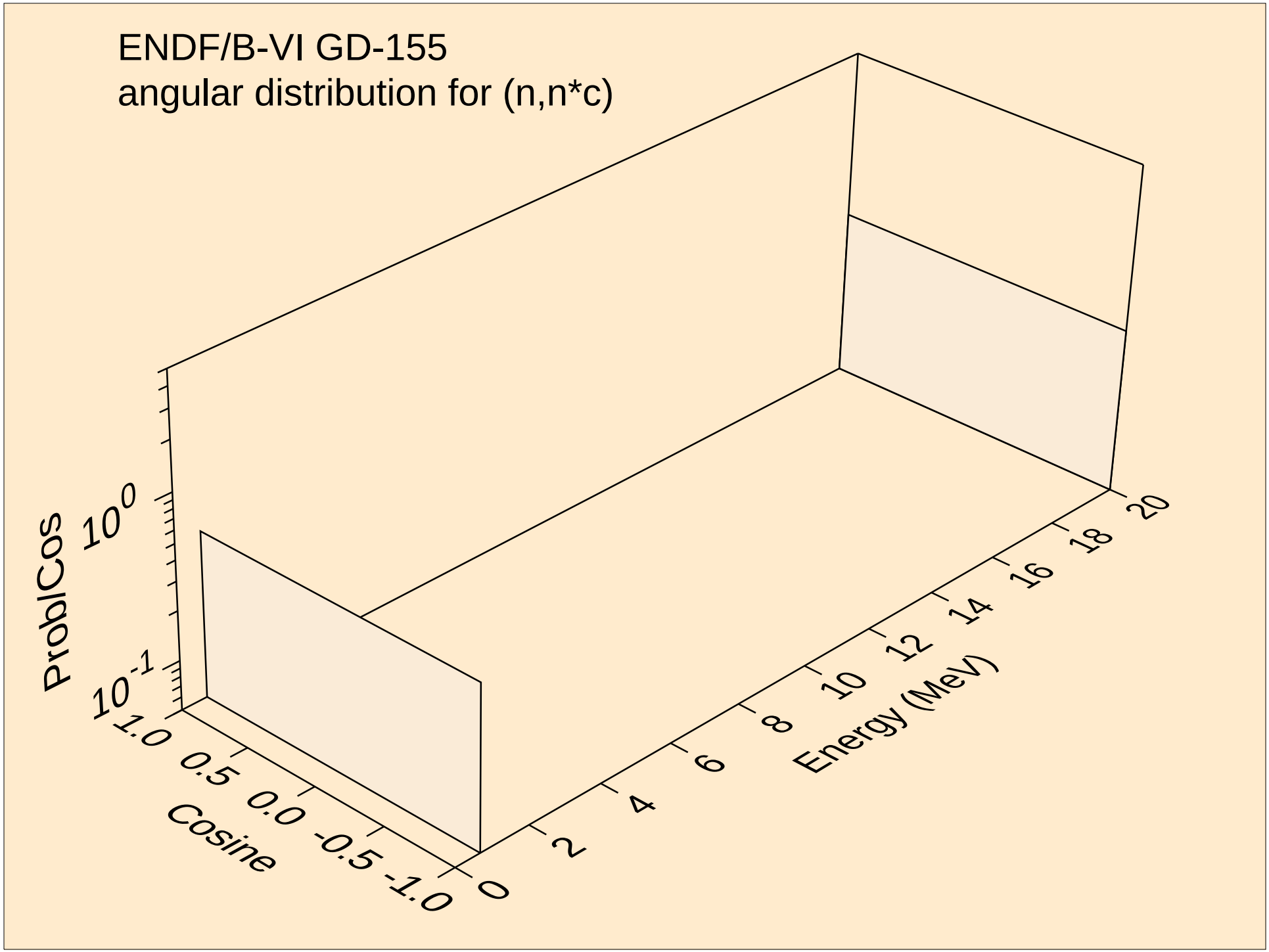

ENDF/B-VI GD-155
angular distribution for (n,n*10)
Prob\Cos
$10^{0}$
$10^{-1}$
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)


ENDF/B-VI GD-155
angular distribution for (n,n*11)
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
18
20
Energy (MeV)


ENDF/B-VI GD-155
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
18
20
Energy (MeV)


ENDF/B-VI GD-155
angular distribution for (n,n*13)
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
18
20
Energy (MeV)


ENDF/B-VI GD-155
angular distribution for (n,n*14)
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
18
20
Energy (MeV)


ENDF/B-VI GD-155
angular distribution for (n,n*c)
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
18
20
Energy (MeV)