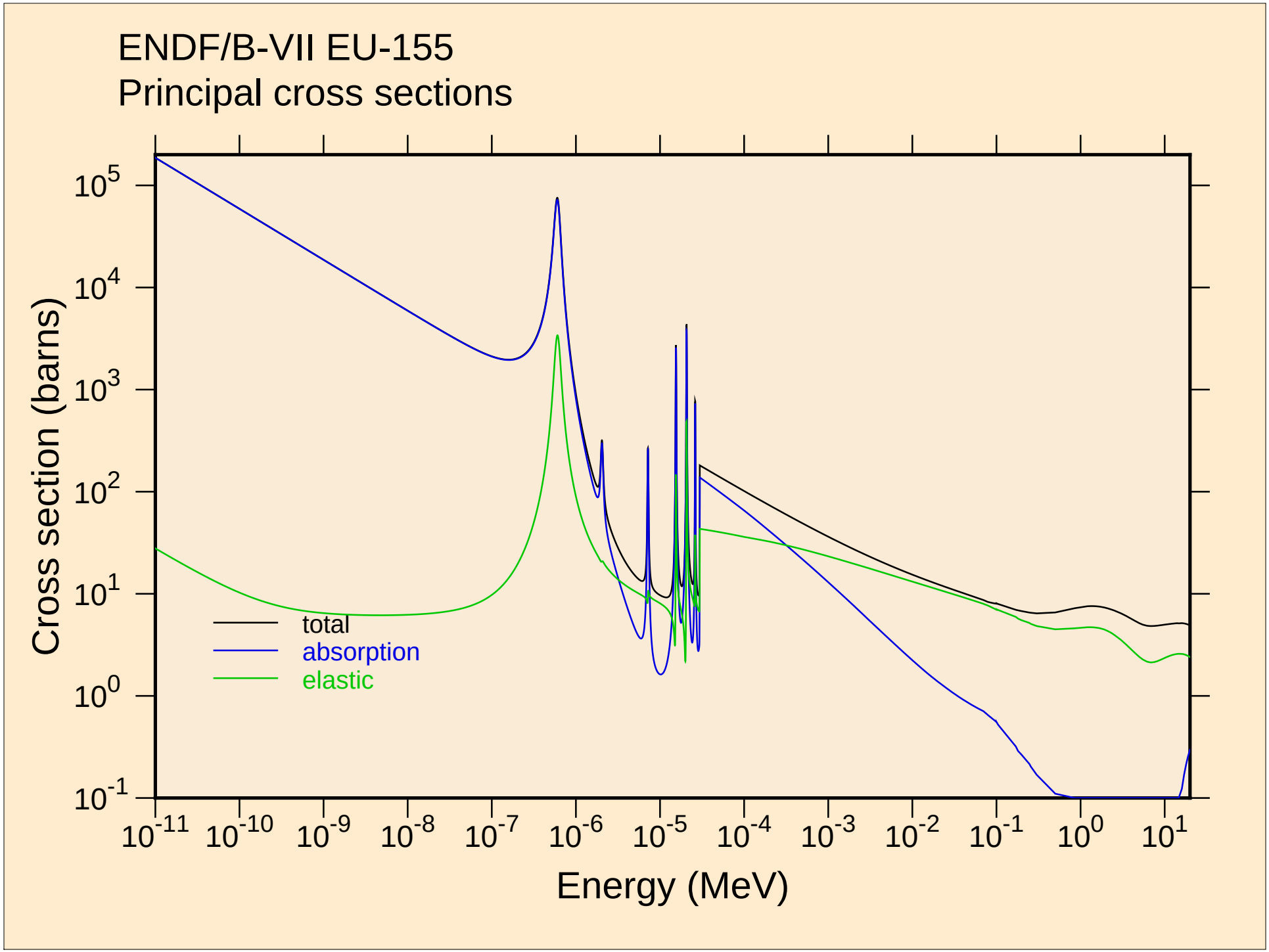
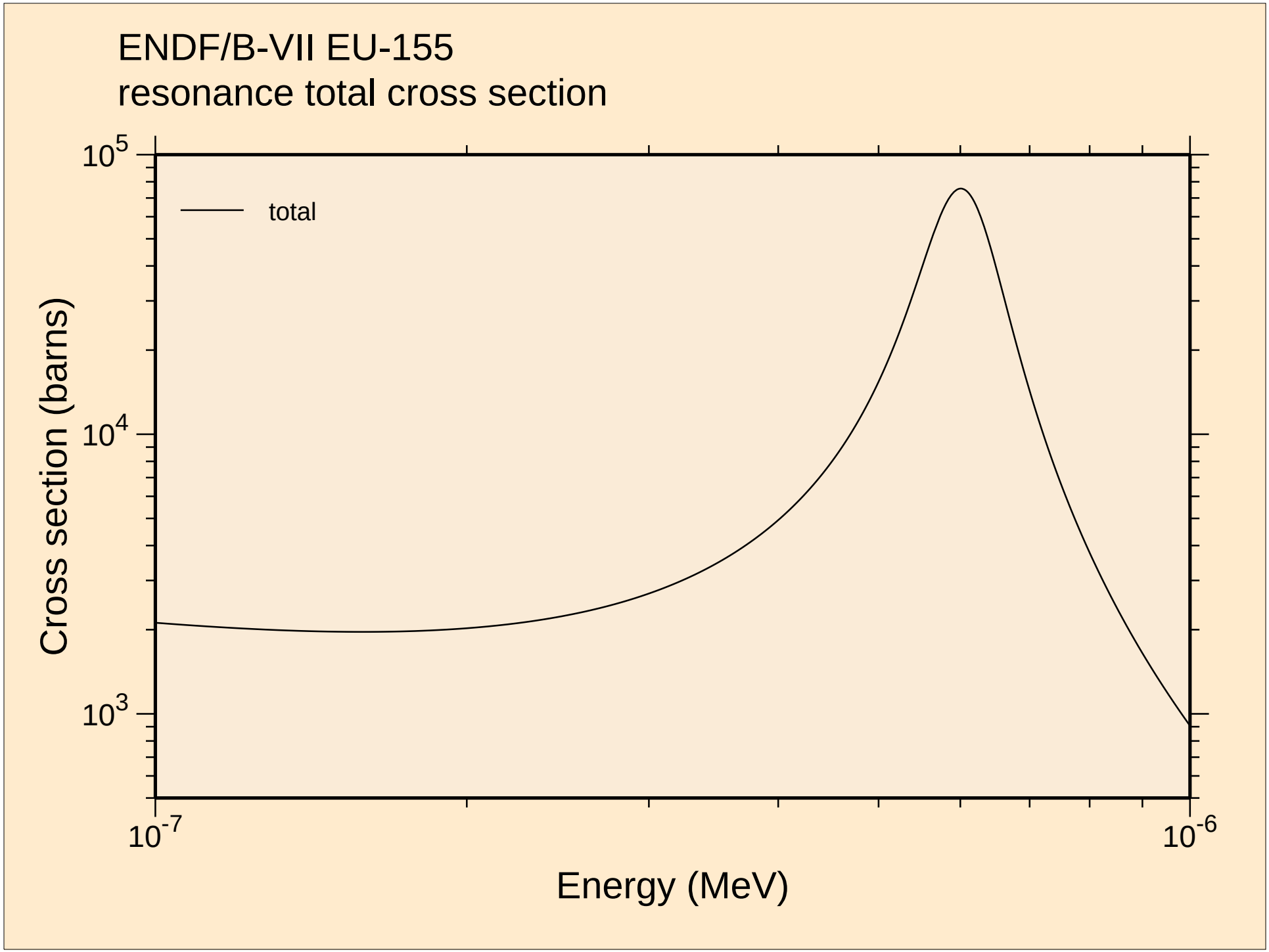
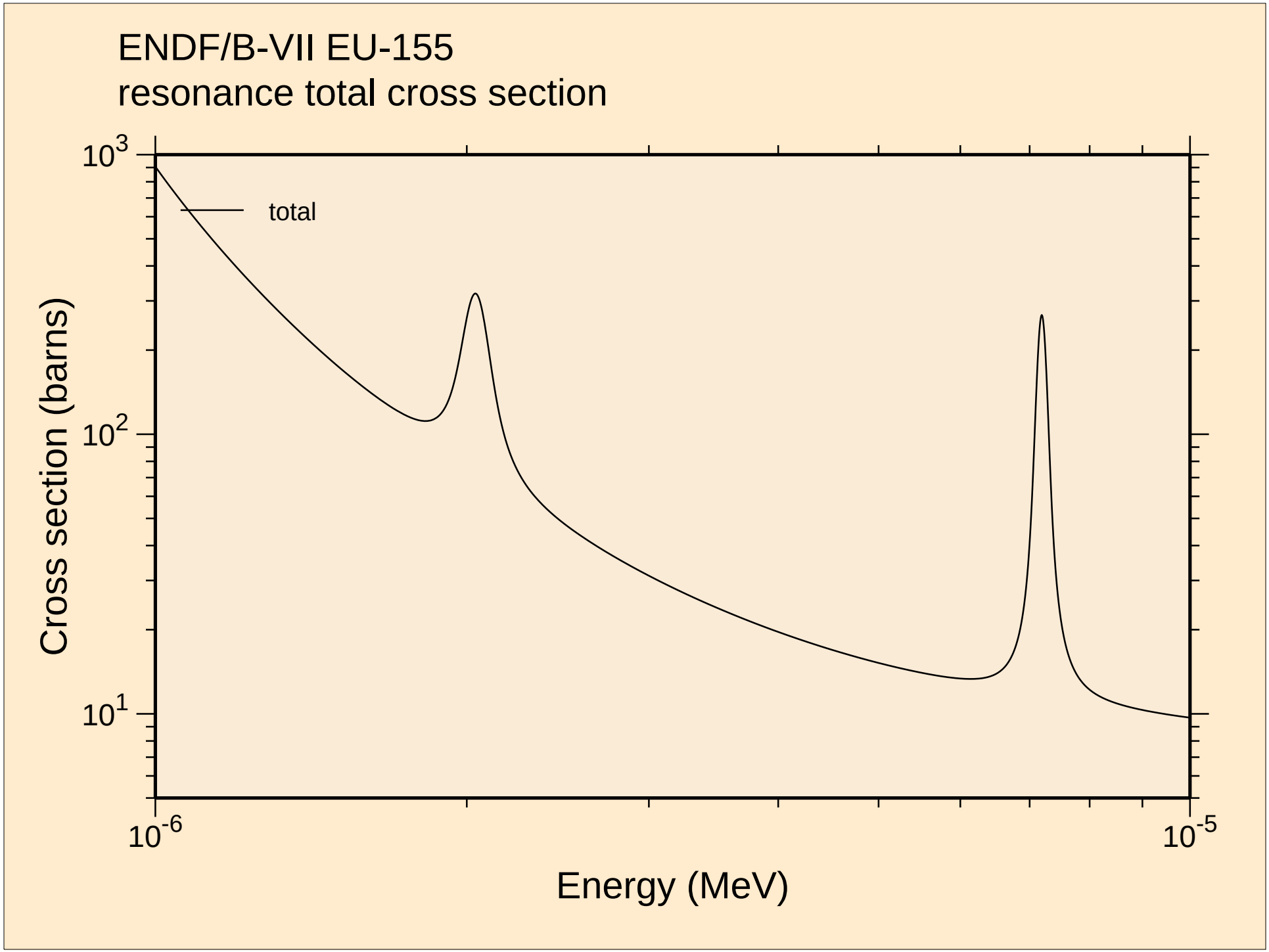
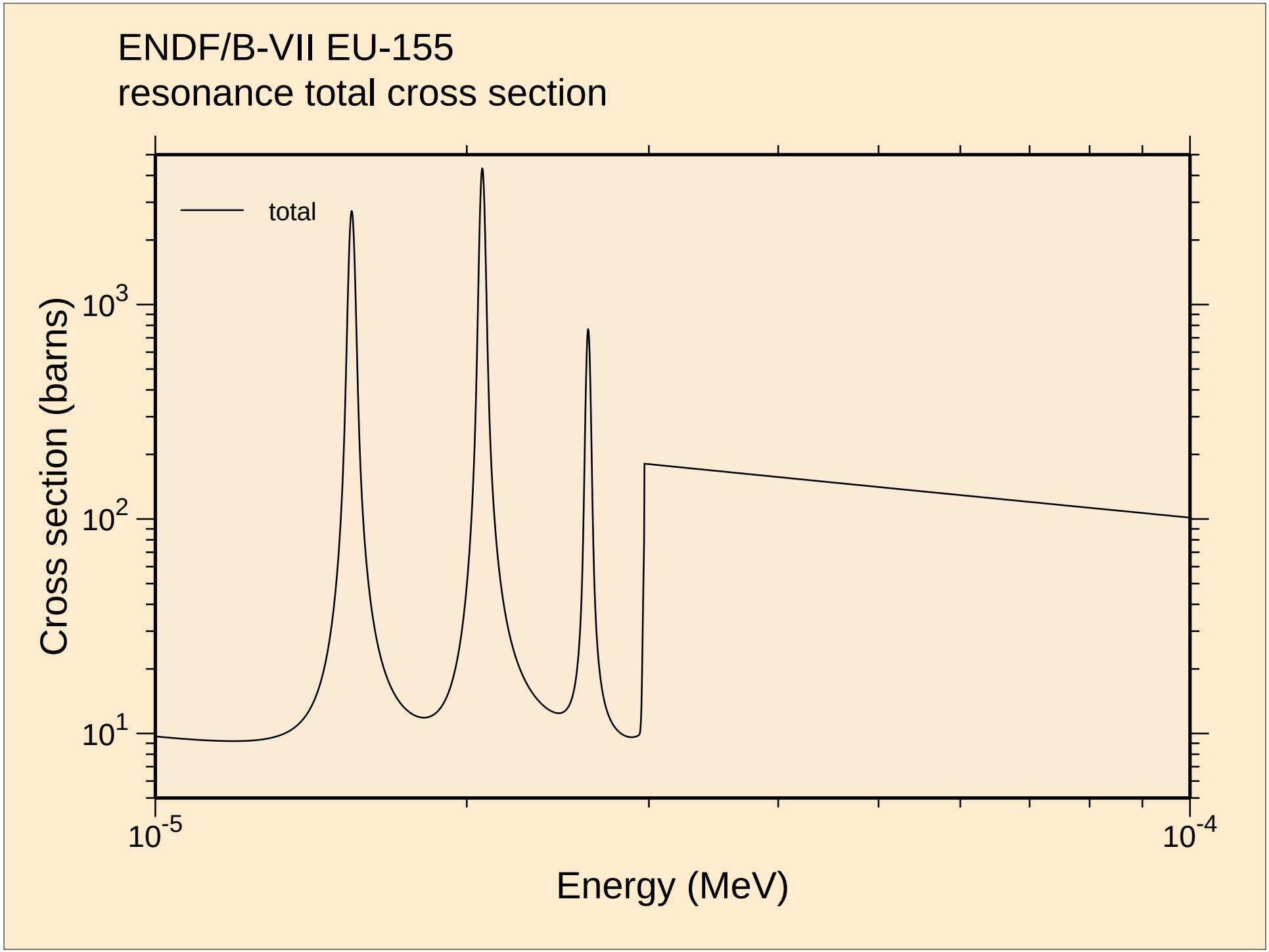
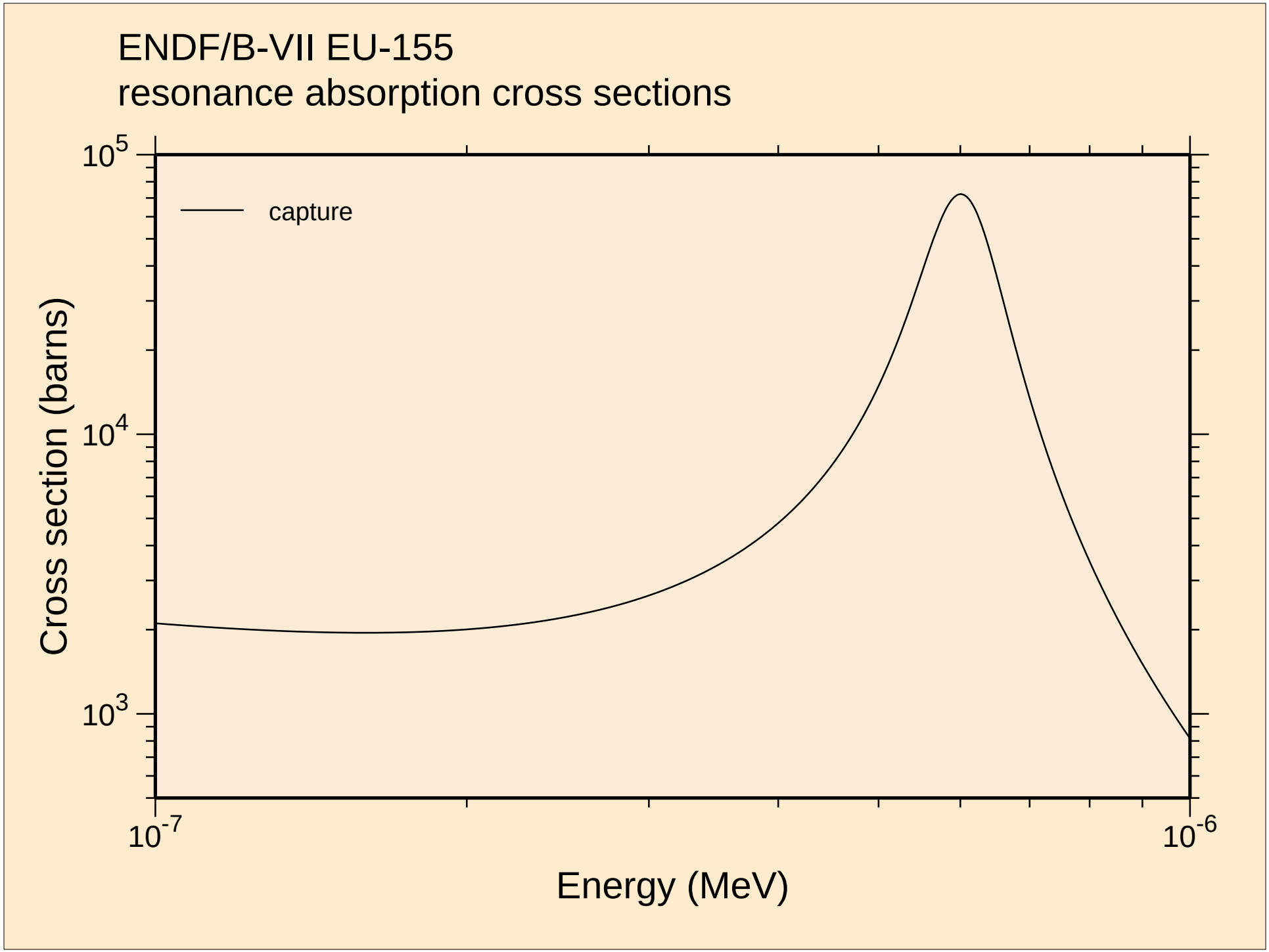
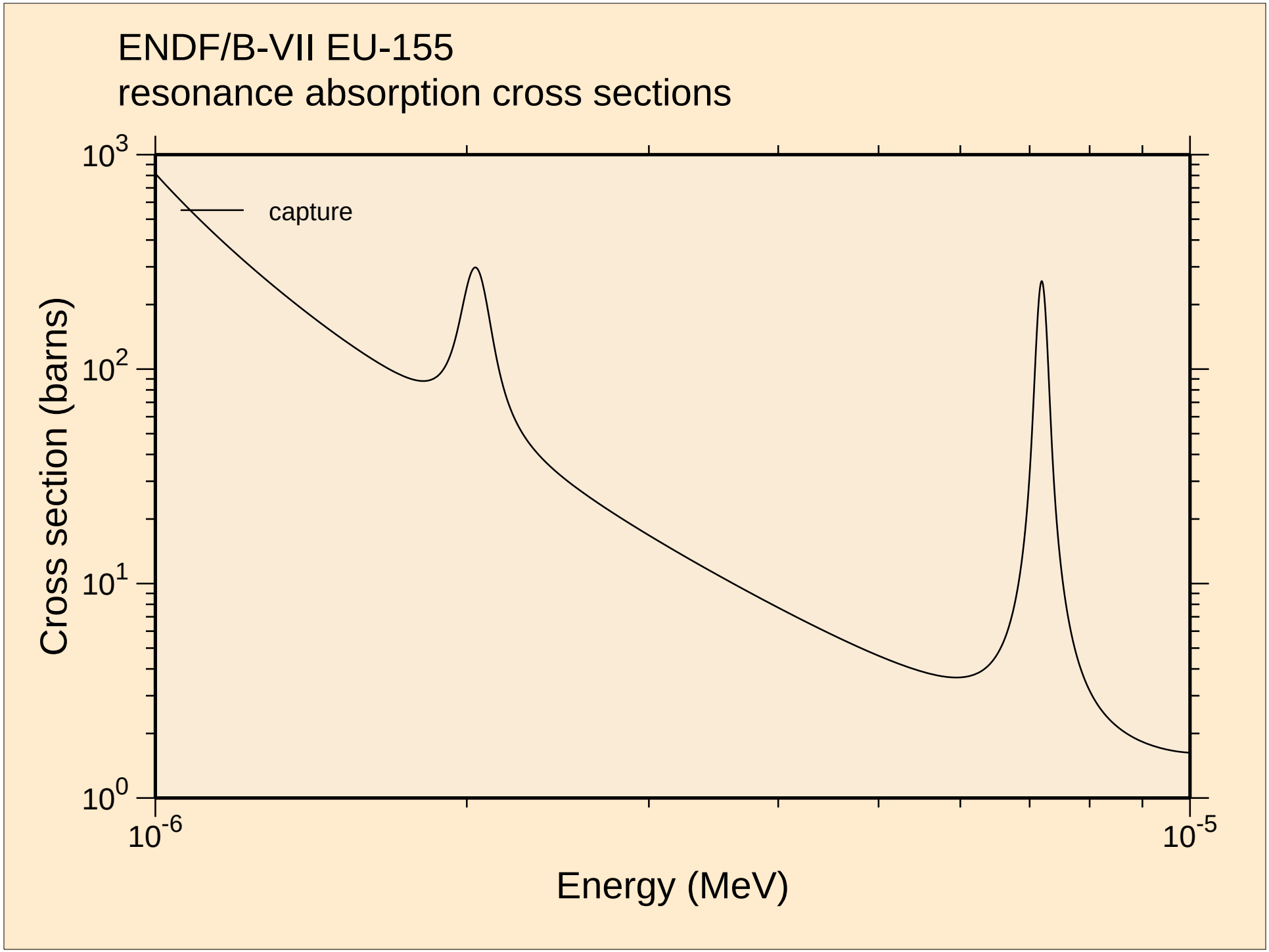

ENDF/B-VII EU-155
Principal cross sections
Cross section (barns)
10^{5}
10^{4}
10^{3}
10^{2}
10^{1}
10^{0}
10^{-1}
total
absorption
elastic
10^{-11} 10^{-10} 10^{-9} 10^{-8} 10^{-7} 10^{-6} 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1}
Energy (MeV)

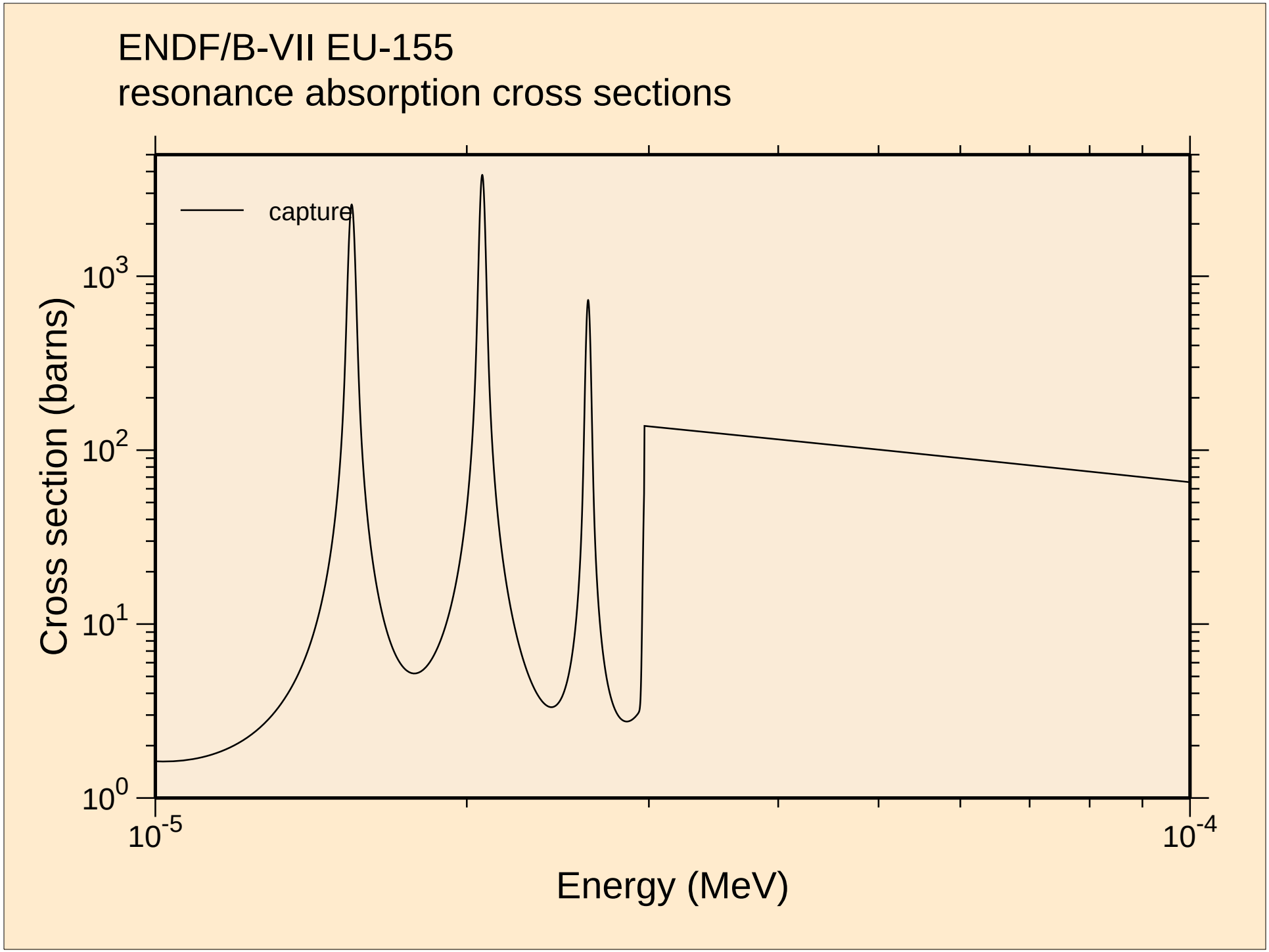

ENDF/B-VII EU-155
resonance total cross section
total
Cross section (barns)
10^5
10^4
10^3
10^{-7}
10^{-6}
Energy (MeV)

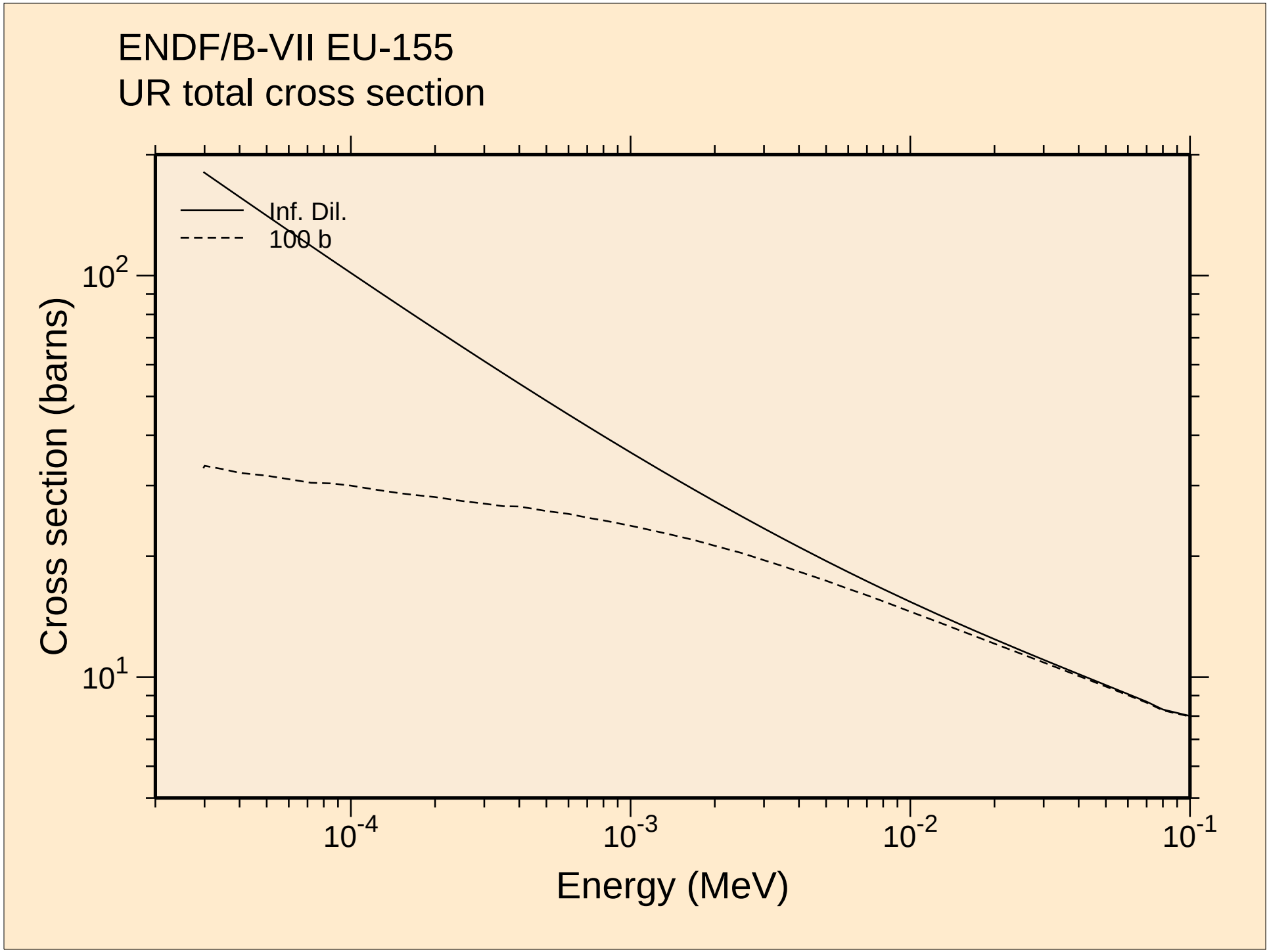

ENDF/B-VII EU-155
resonance total cross section
total
Cross section (barns)
10^3
10^2
10^1
10^{-6}
10^{-5}
Energy (MeV)

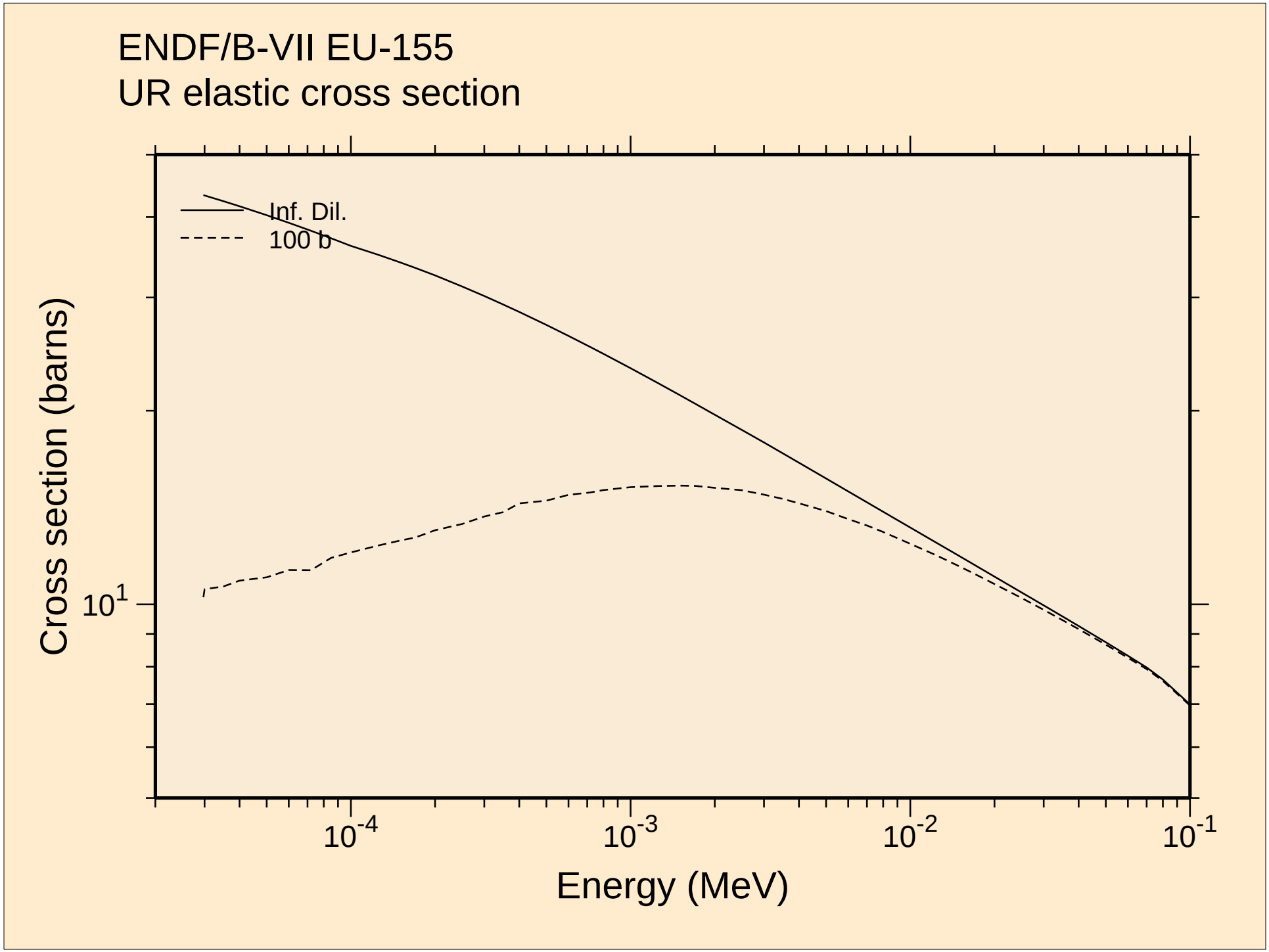

ENDF/B-VII EU-155
resonance total cross section
total
Cross section (barns)
10^3
10^2
10^1
10^-5
10^-4
Energy (MeV)

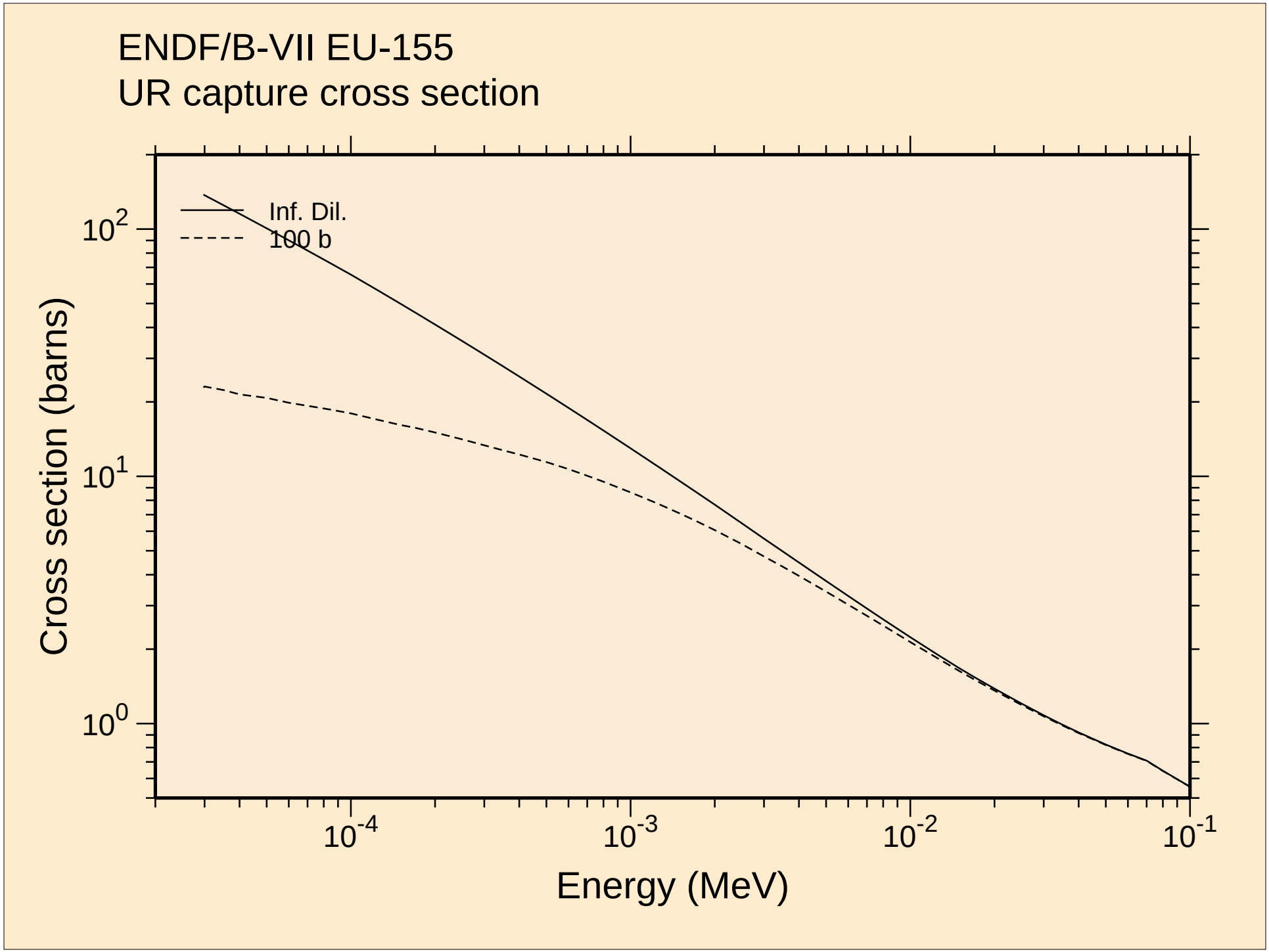

ENDF/B-VII EU-155
resonance absorption cross sections
capture
Cross section (barns)
10^5
10^4
10^3
10^-7
10^-6
Energy (MeV)

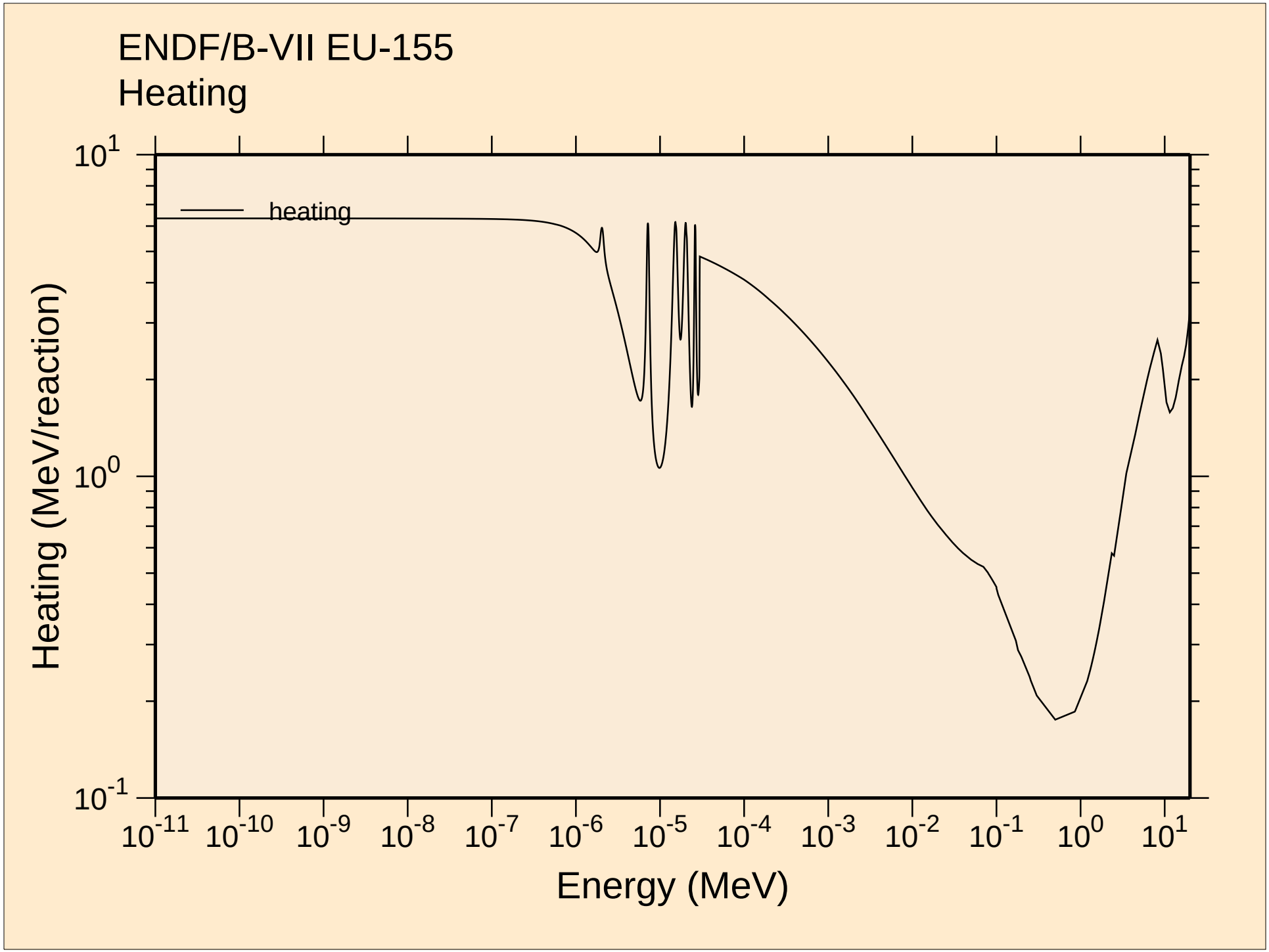

ENDF/B-VII EU-155
resonance absorption cross sections
capture
Cross section (barns)
10^3
10^2
10^1
10^0
10^{-6}
10^{-5}
Energy (MeV)

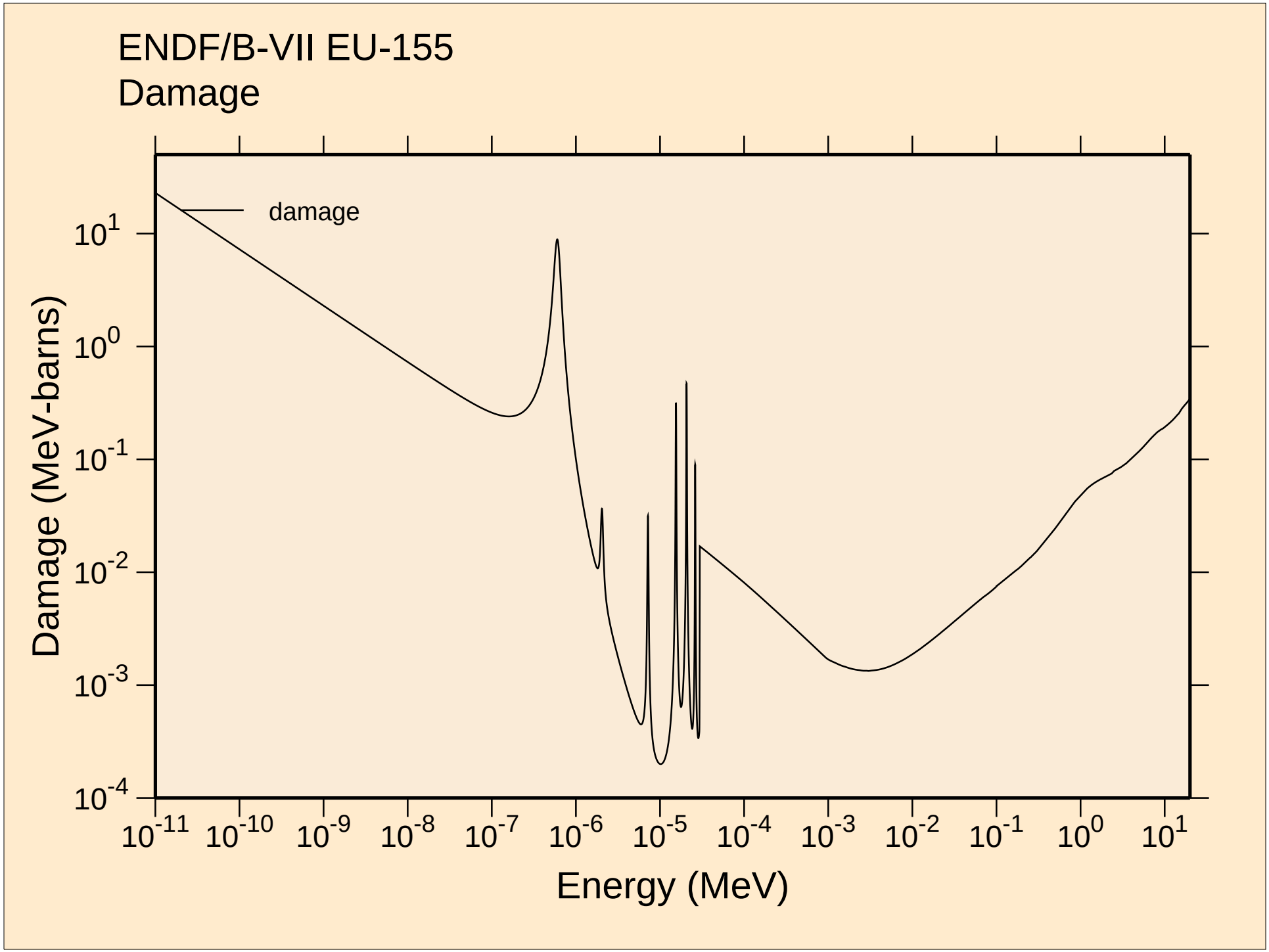

ENDF/B-VII EU-155
resonance absorption cross sections
capture
Cross section (barns)
10^3
10^2
10^1
10^0
10^-5
10^-4
Energy (MeV)

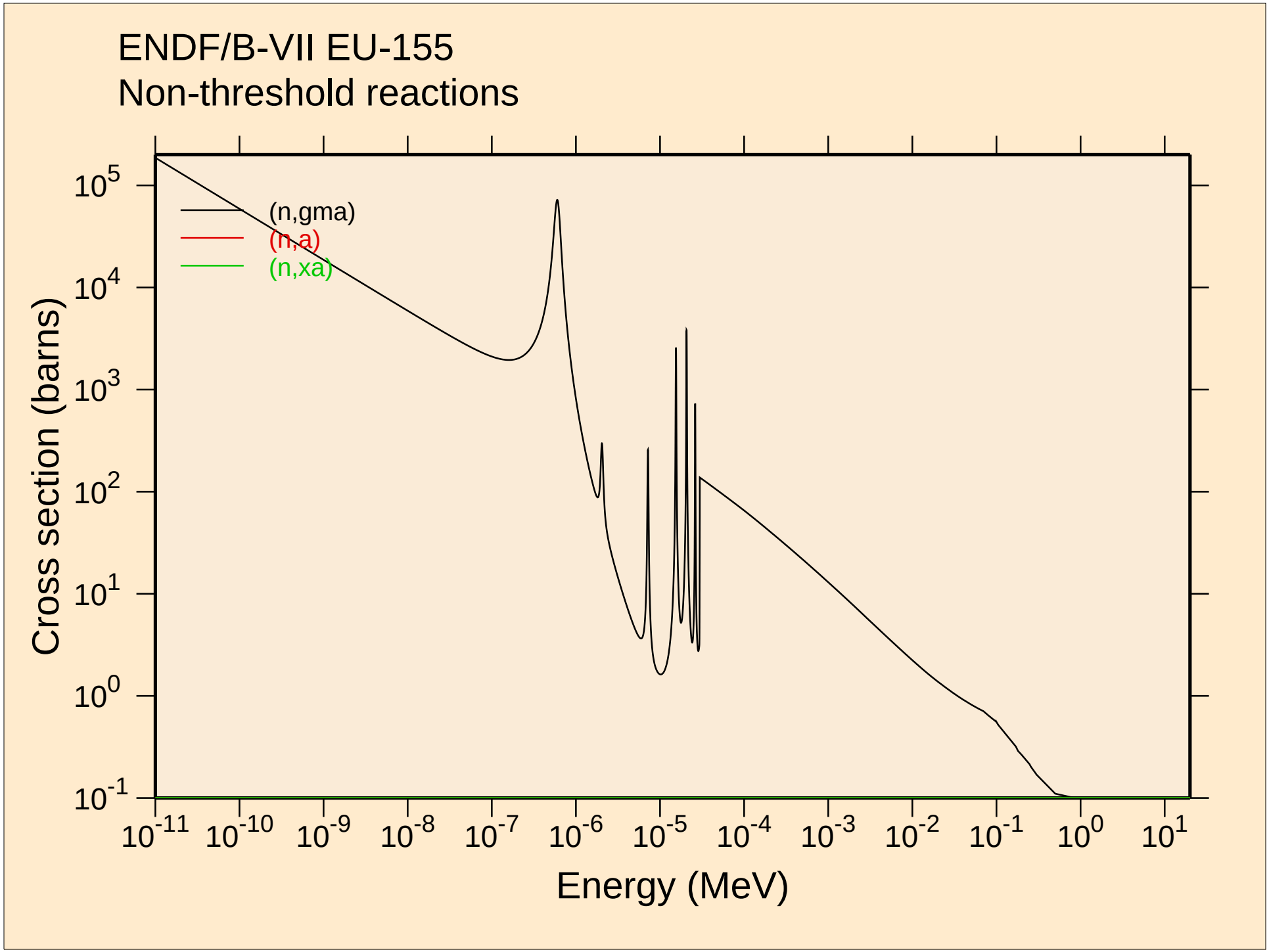

ENDF/B-VII EU-155
UR total cross section
Inf. Dil.
100 b
Cross section (barns)
10^2
10^1
10^{-4}
10^{-3}
10^{-2}
10^{-1}
Energy (MeV)

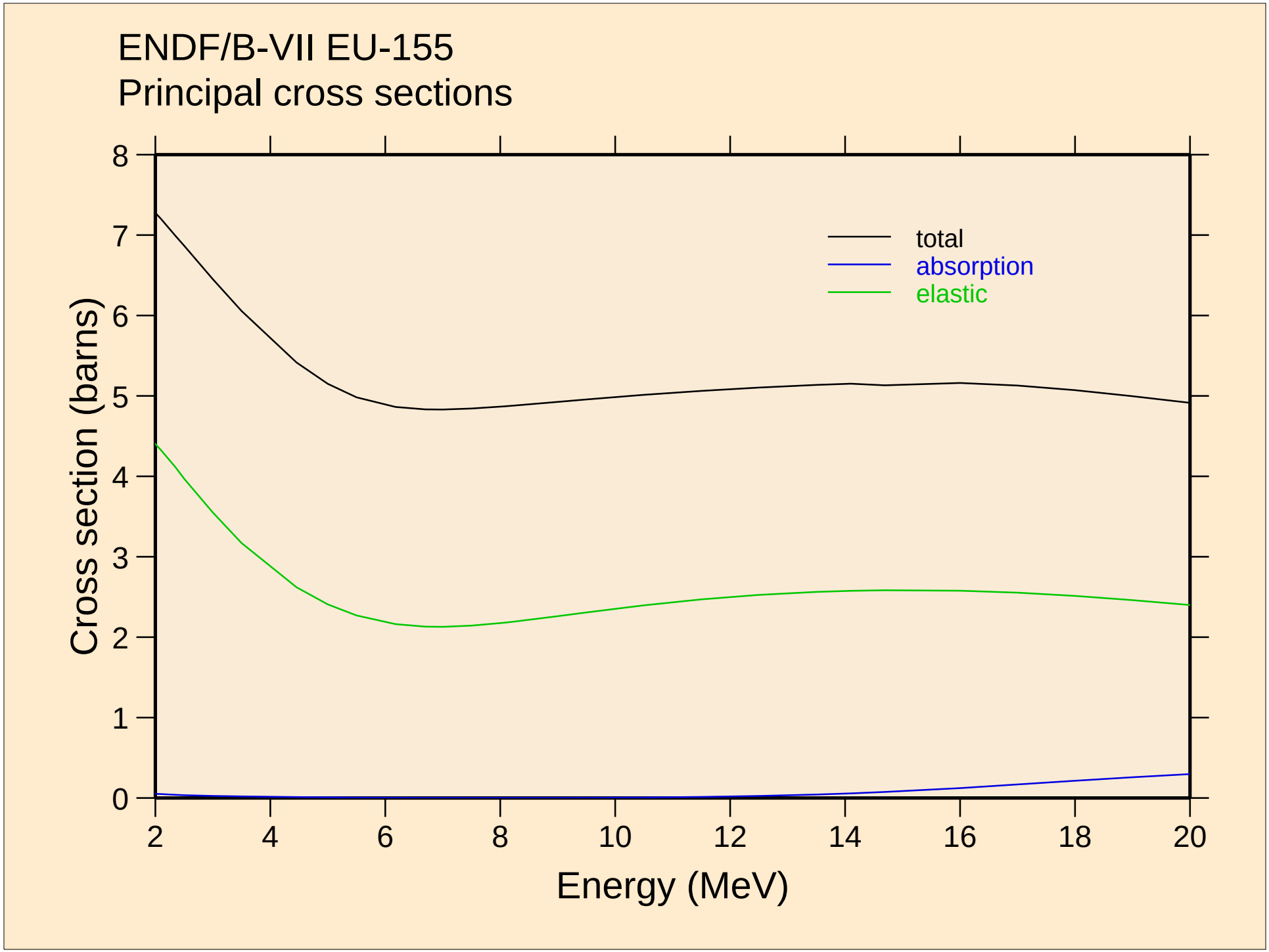

ENDF/B-VII EU-155
UR elastic cross section
Inf. Dil.
100 b
Cross section (barns)
10^1
10^-4
10^-3
10^-2
10^-1
Energy (MeV)

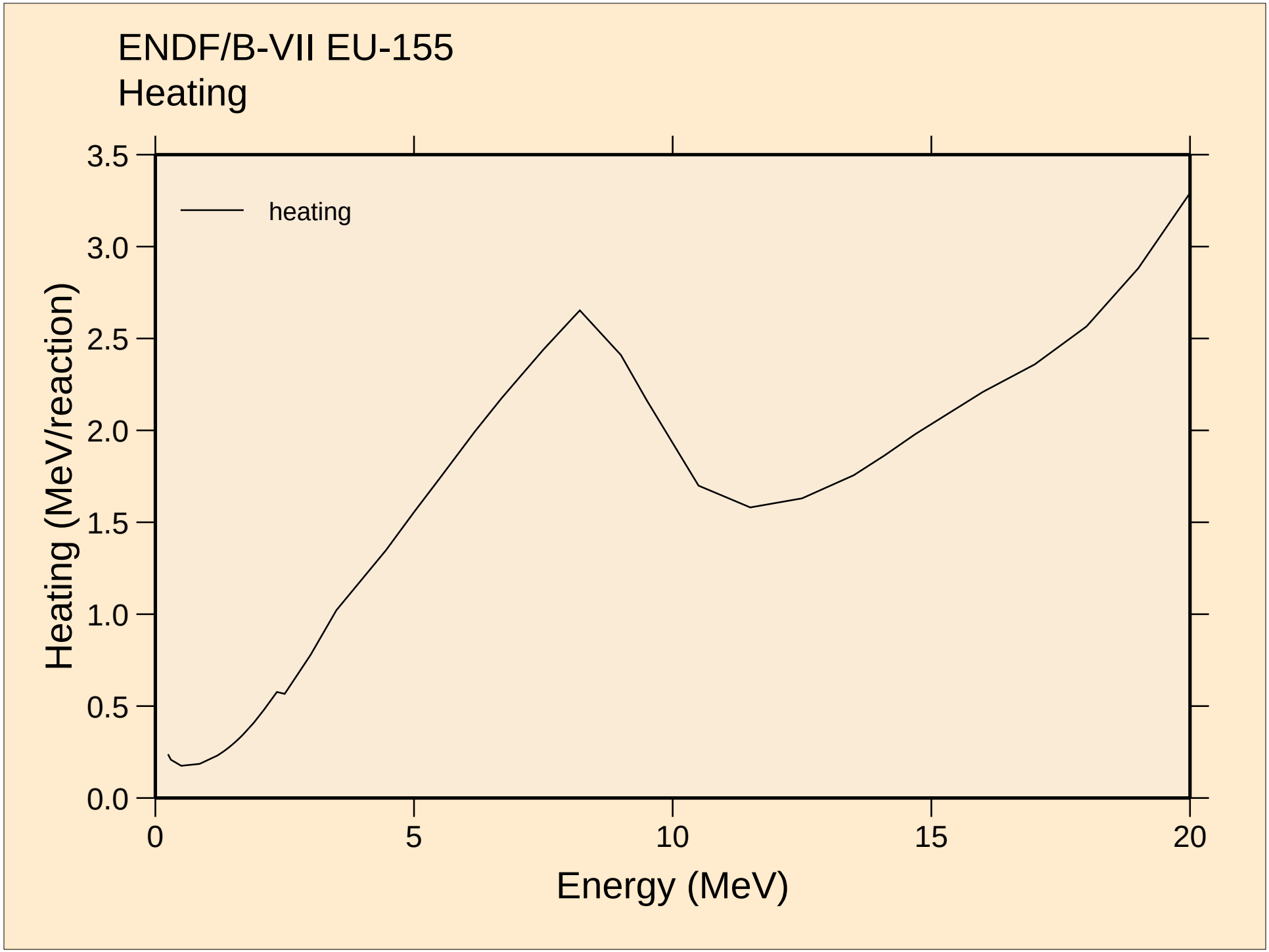

ENDF/B-VII EU-155
UR capture cross section
Inf. Dil.
100 b
Cross section (barns)
10^2
10^1
10^0
10^{-4}
10^{-3}
10^{-2}
10^{-1}
Energy (MeV)

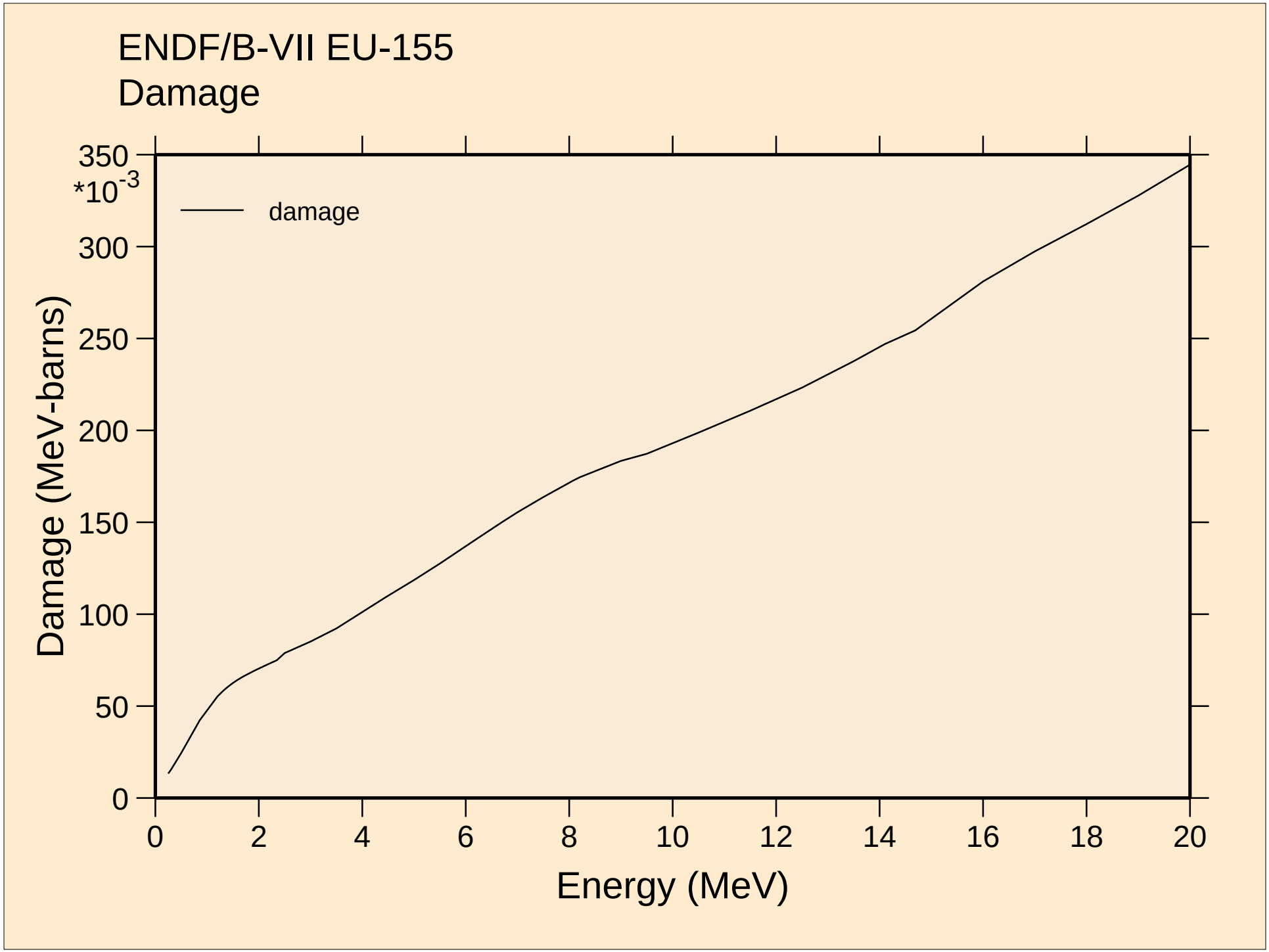

ENDF/B-VII EU-155
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
10^1
10^0
10^-1
10^-11
10^-10
10^-9
10^-8
10^-7
10^-6
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1

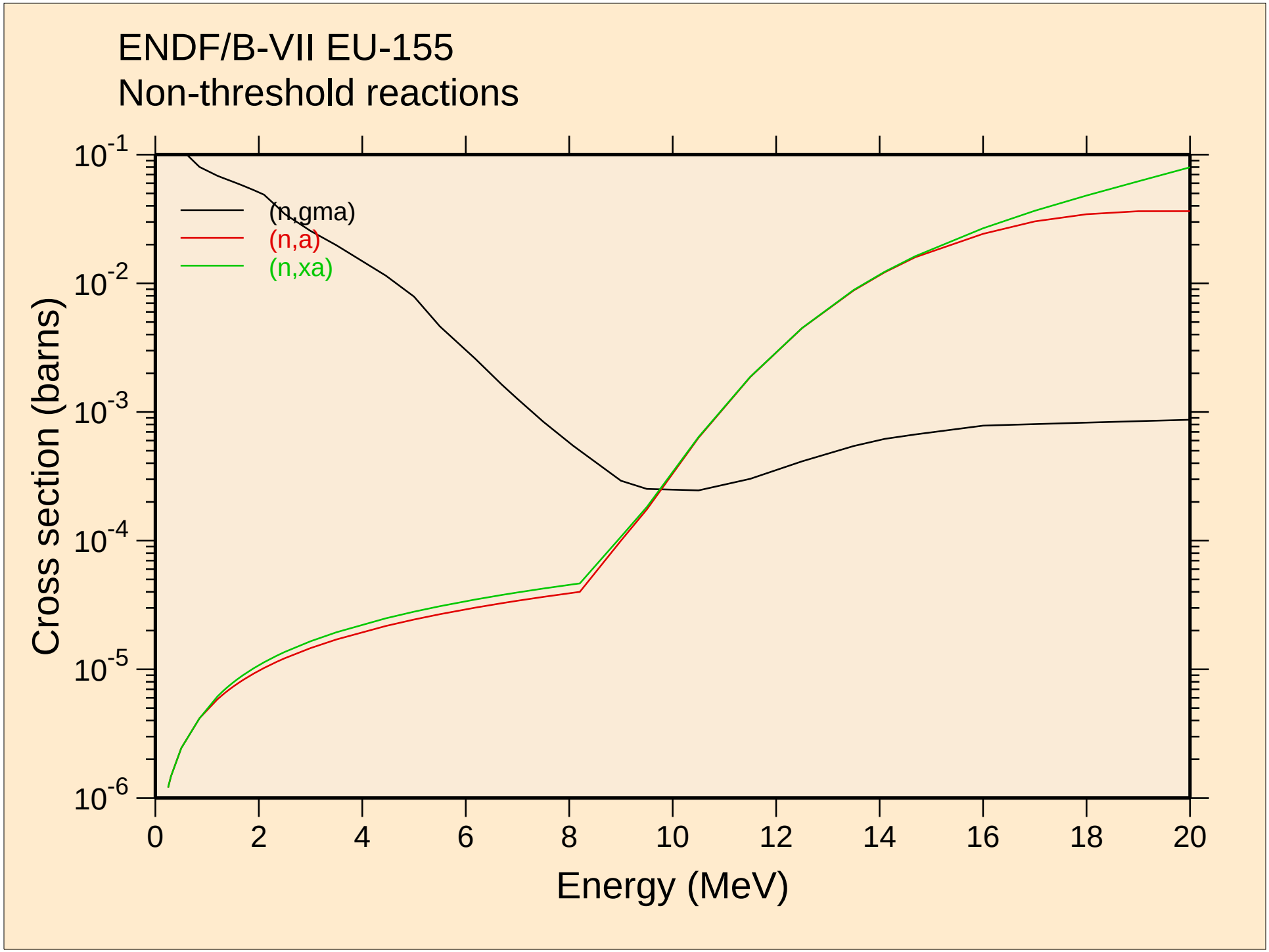

ENDF/B-VII EU-155
Damage
damage
Damage (MeV-barns)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-11} 10^{-10} 10^{-9} 10^{-8} 10^{-7} 10^{-6} 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1}
Energy (MeV)

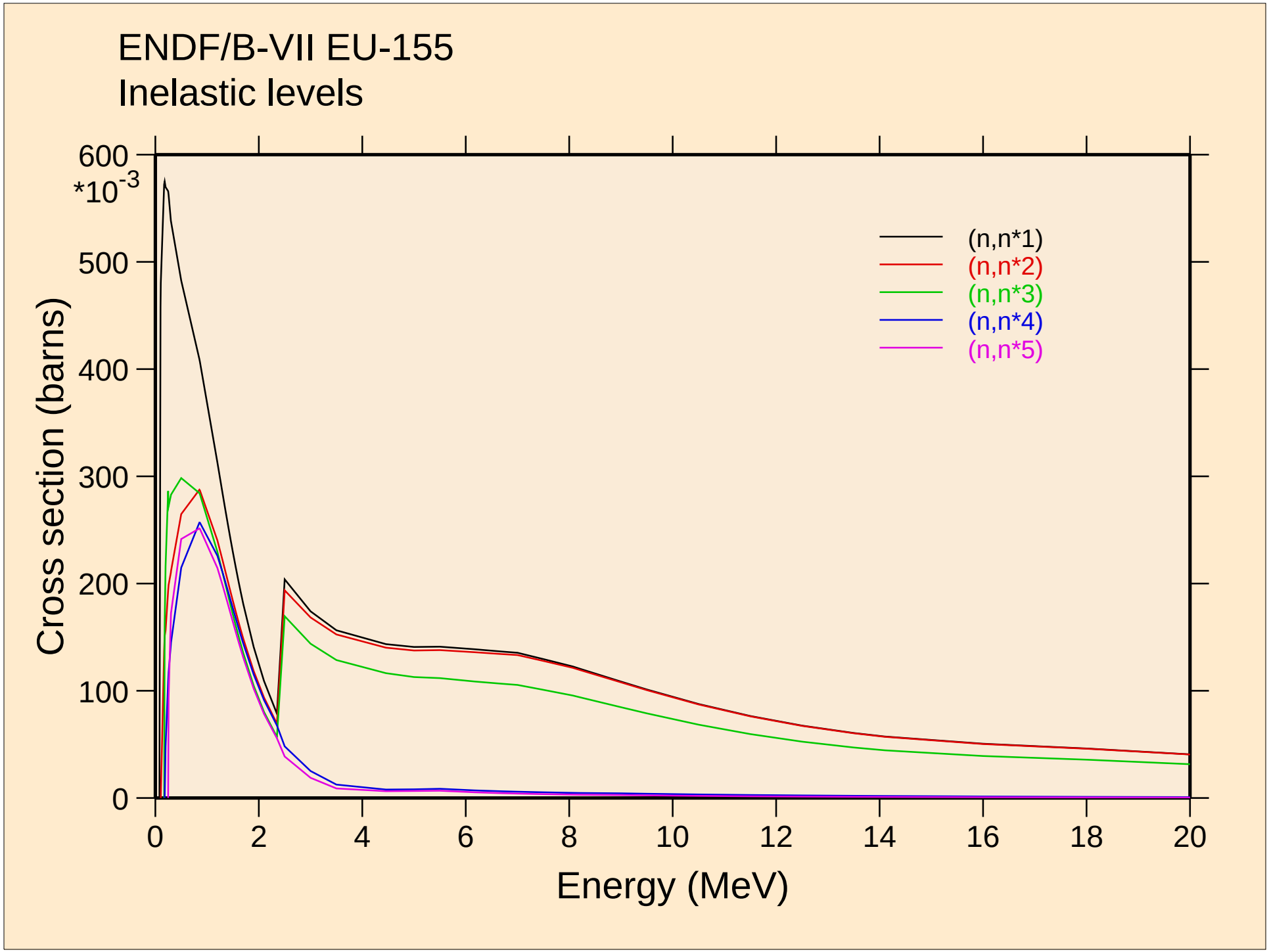

ENDF/B-VII EU-155
Non-threshold reactions
(n,gma)
(n,a)
(n,xa)
Cross section (barns)
Energy (MeV)
10^5
10^4
10^3
10^2
10^1
10^0
10^-1
10^-11
10^-10
10^-9
10^-8
10^-7
10^-6
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1

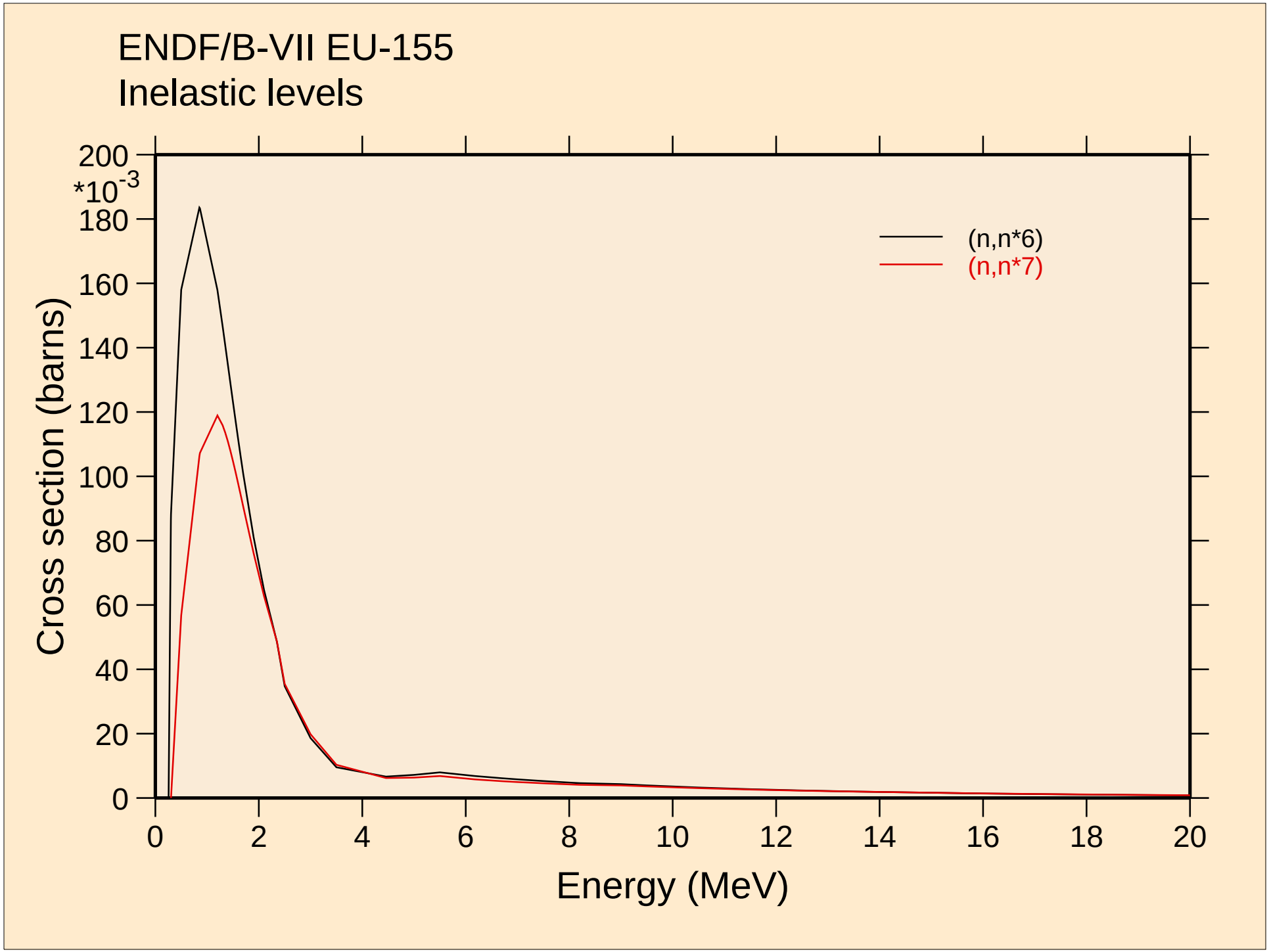

ENDF/B-VII EU-155
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
0
1
2
3
4
5
6
7
8
2
4
6
8
10
12
14
16
18
20

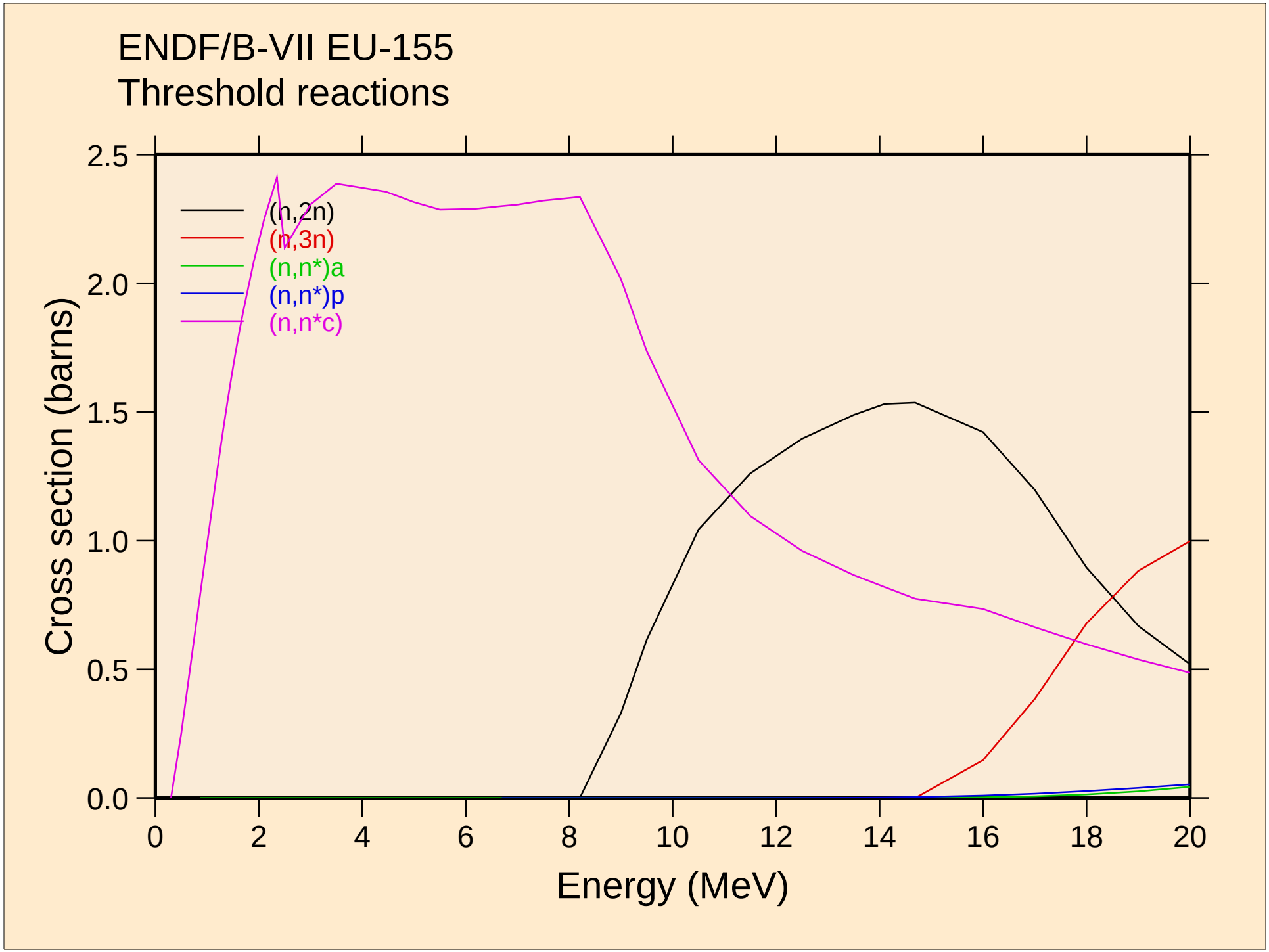

ENDF/B-VII EU-155
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
0
5
10
15
20

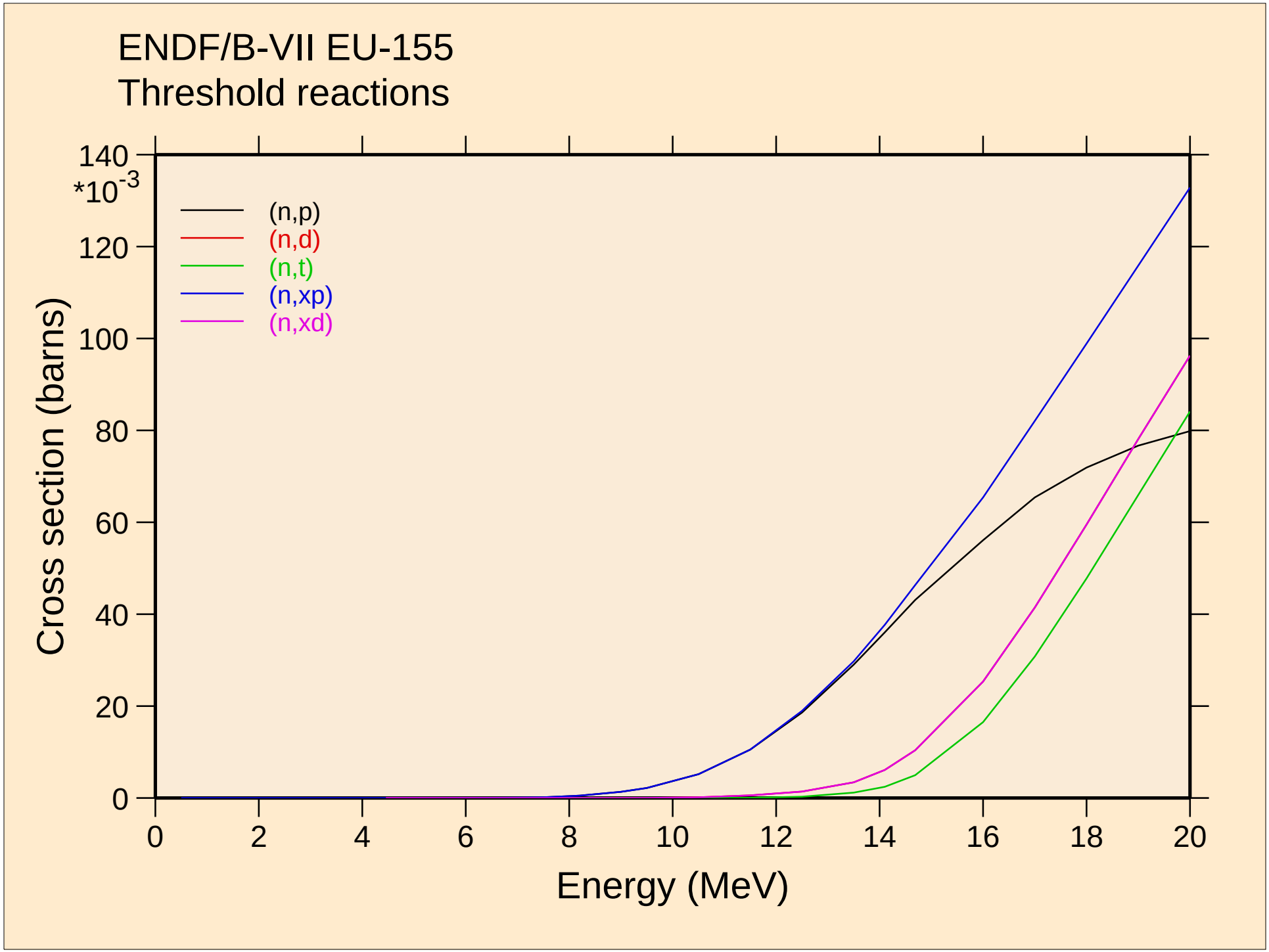

ENDF/B-VII EU-155
Damage
350
*10-3
300
250
200
150
100
50
0
damage
Damage (MeV-barns)
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

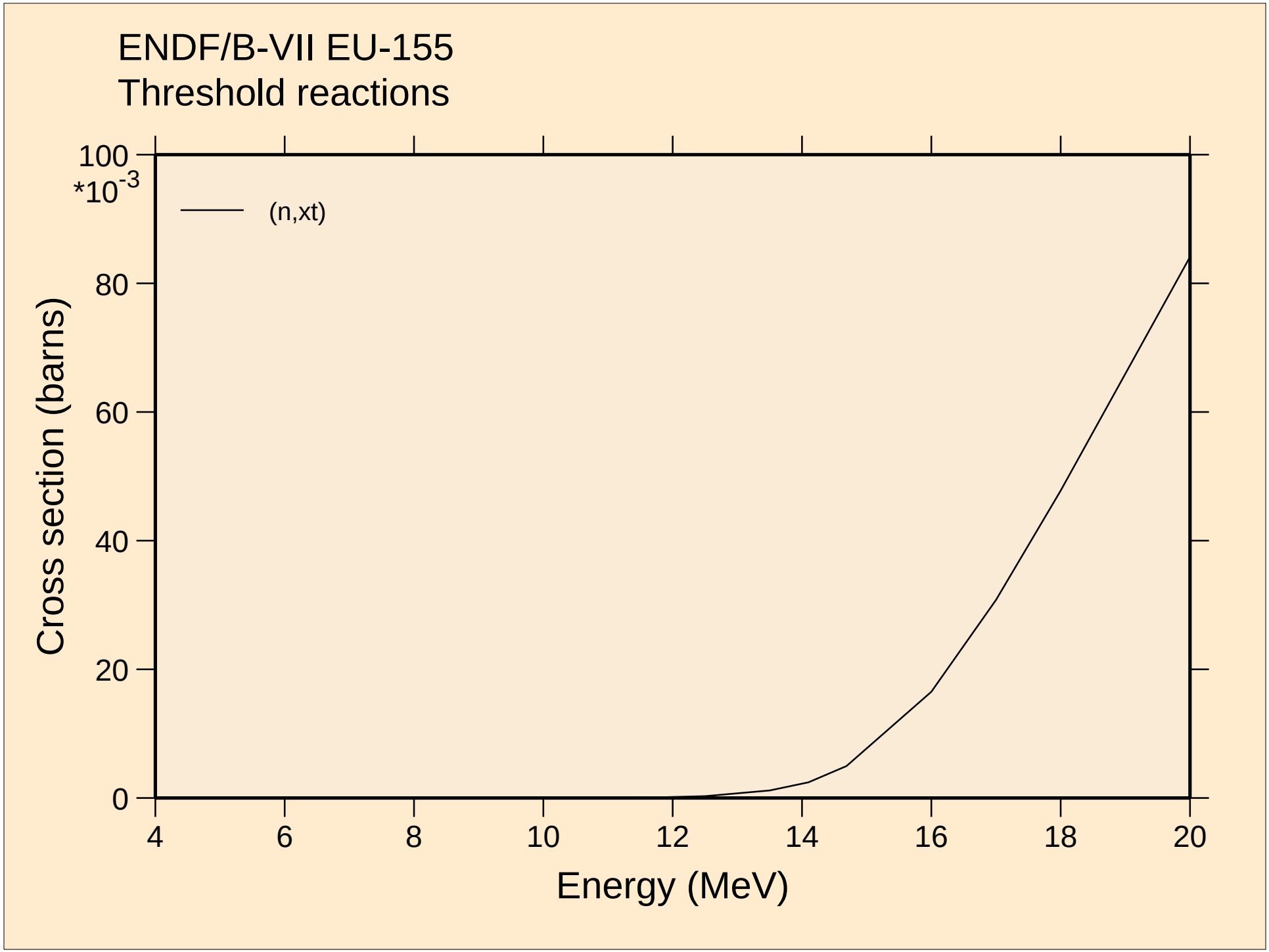

ENDF/B-VII EU-155
Non-threshold reactions
(n,gma)
(n,a)
(n,xa)
Cross section (barns)
10-1
10-2
10-3
10-4
10-5
10-6
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

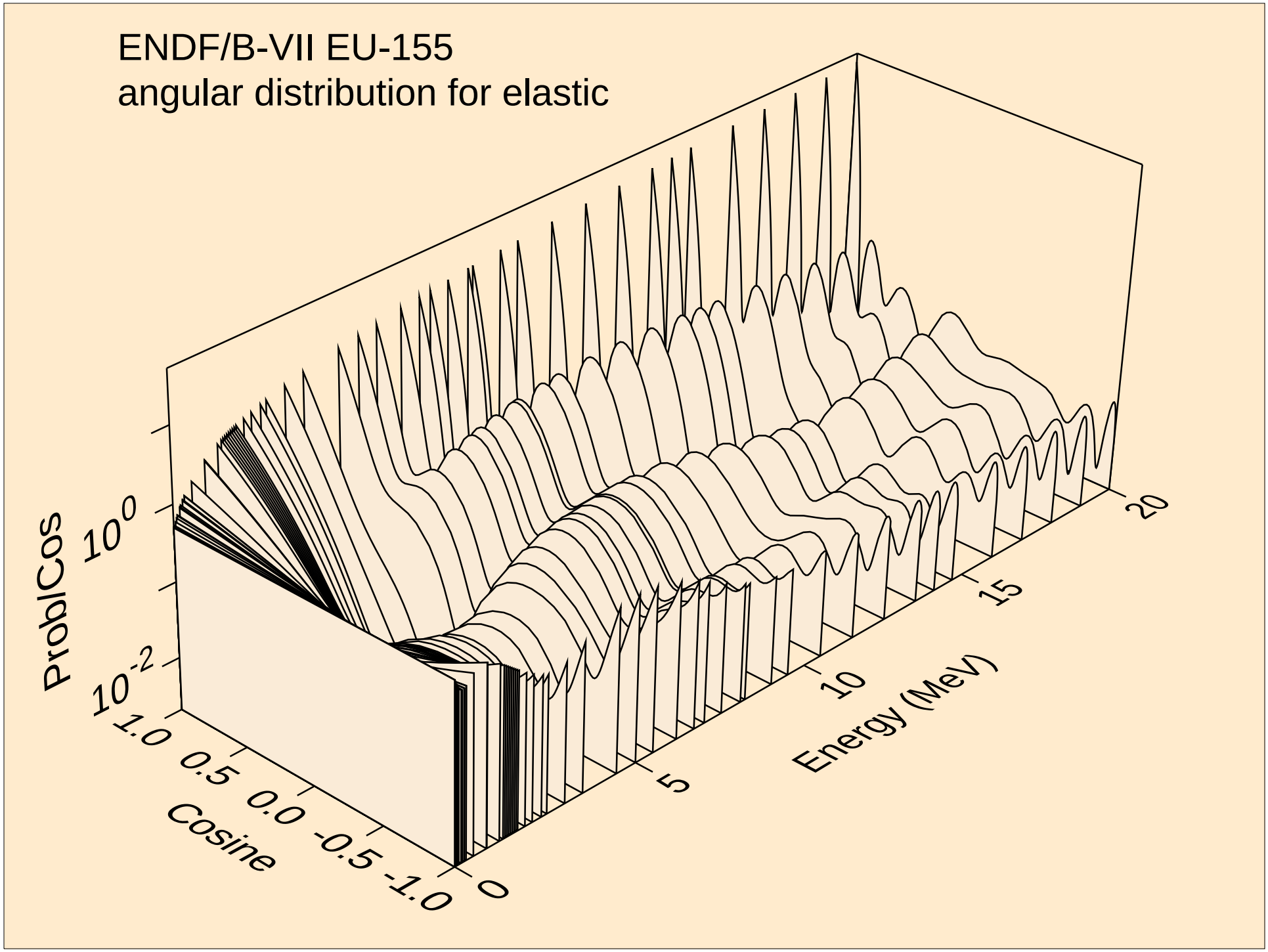

ENDF/B-VII EU-155
Inelastic levels
Cross section (barns)
*10-3
600
500
400
300
200
100
0
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)
(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)

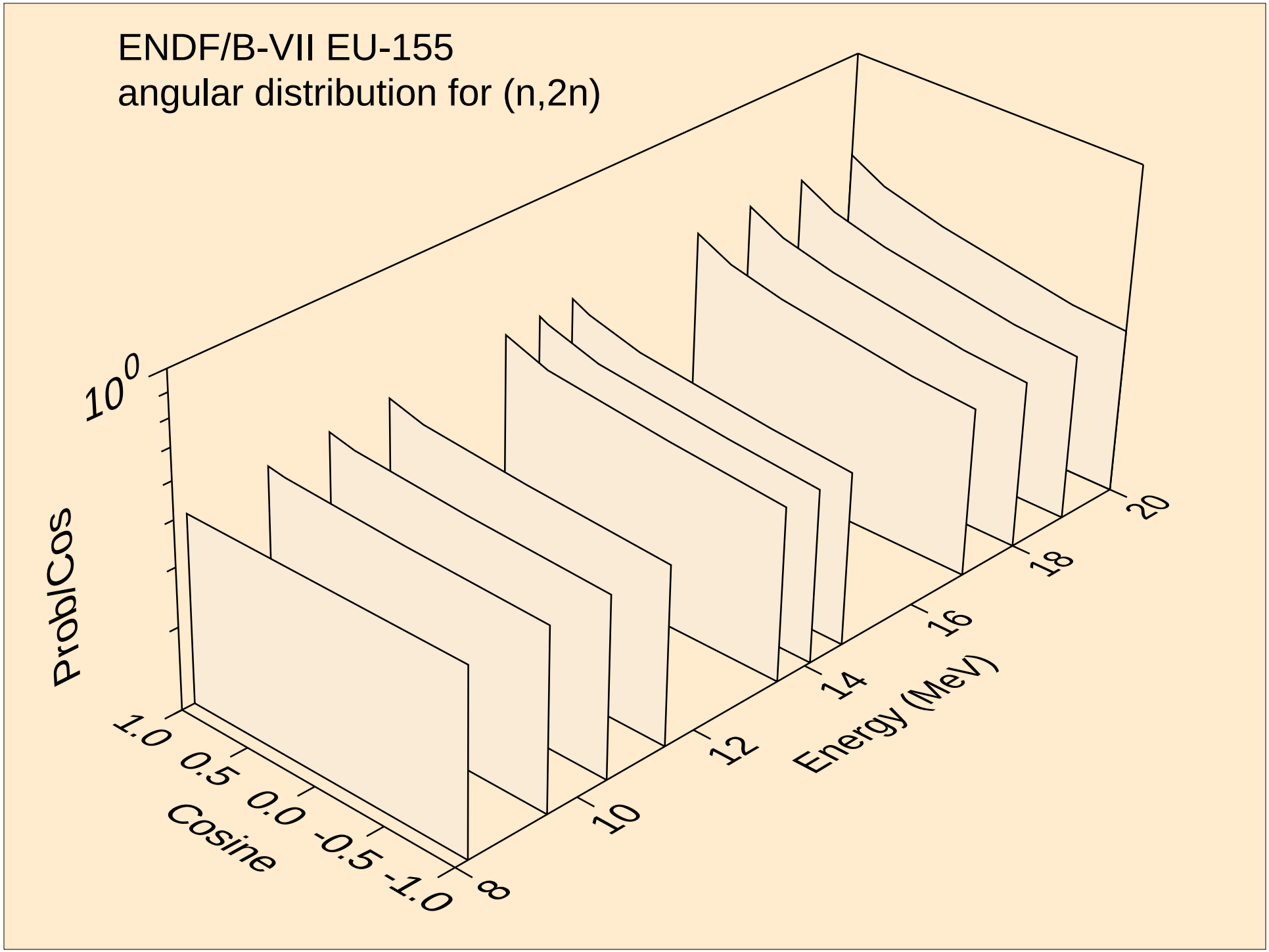

ENDF/B-VII EU-155
Inelastic levels
Cross section (barns)
*10-3
200
180
160
140
120
100
80
60
40
20
0
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)
(n,n*6)
(n,n*7)

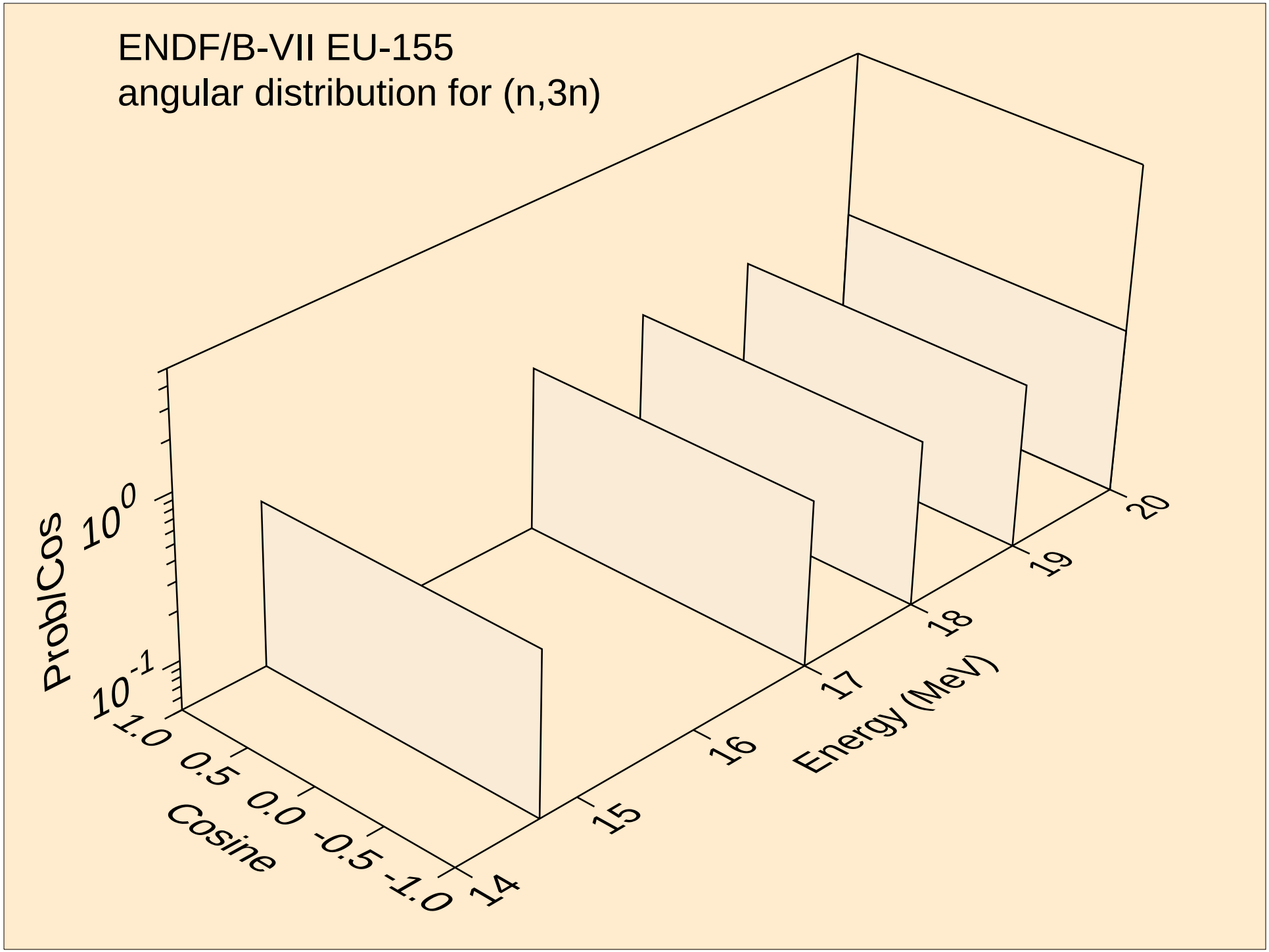

ENDF/B-VII EU-155
Threshold reactions
(n,2n)
(n,3n)
(n,n*)a
(n,n*)p
(n,n*c)
Cross section (barns)
Energy (MeV)
0.0
0.5
1.0
1.5
2.0
2.5
0
2
4
6
8
10
12
14
16
18
20

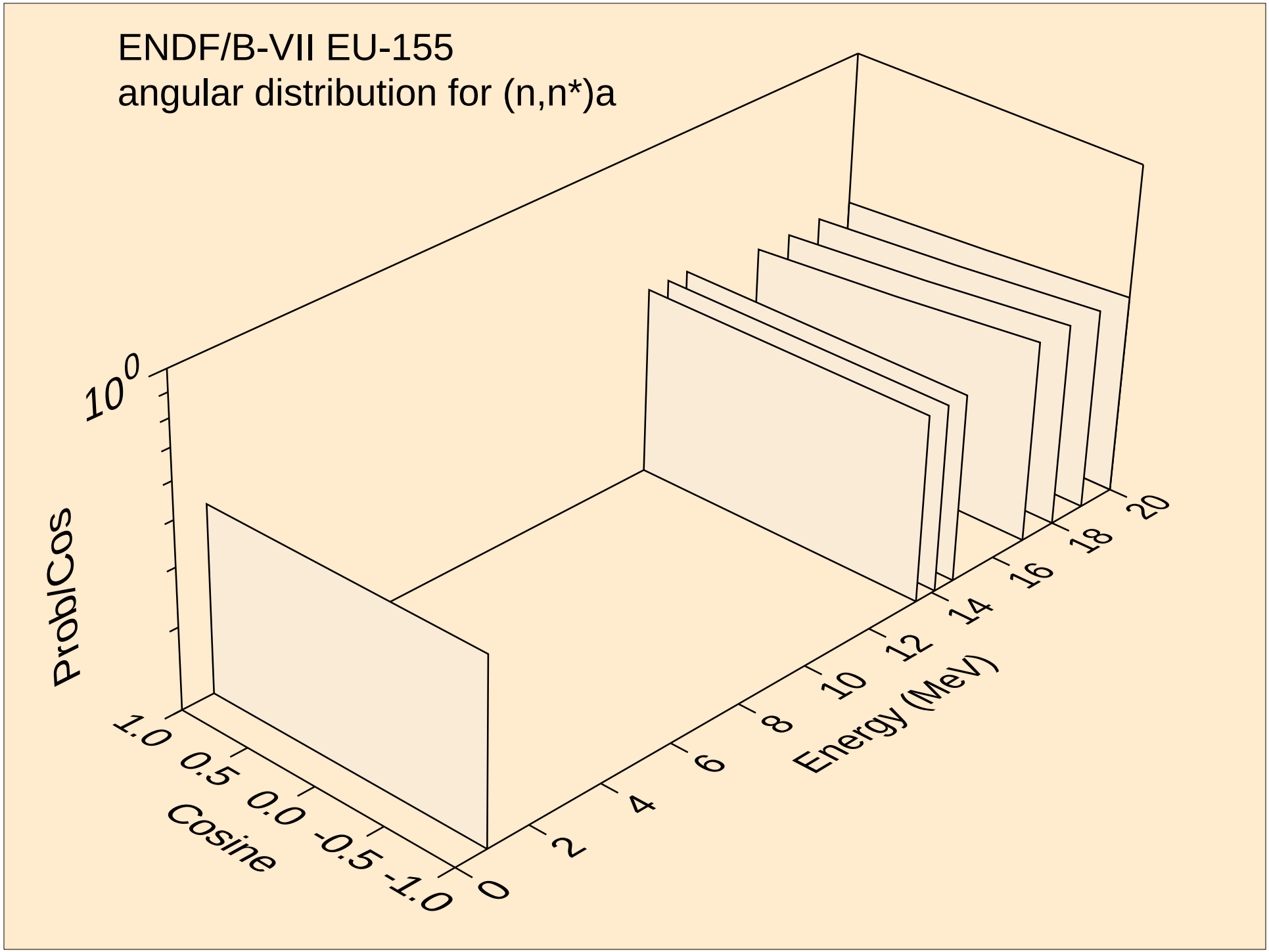

ENDF/B-VII EU-155
Threshold reactions
140
*10-3
120
100
80
60
40
20
0
Cross section (barns)
(n,p)
(n,d)
(n,t)
(n,xp)
(n,xd)
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

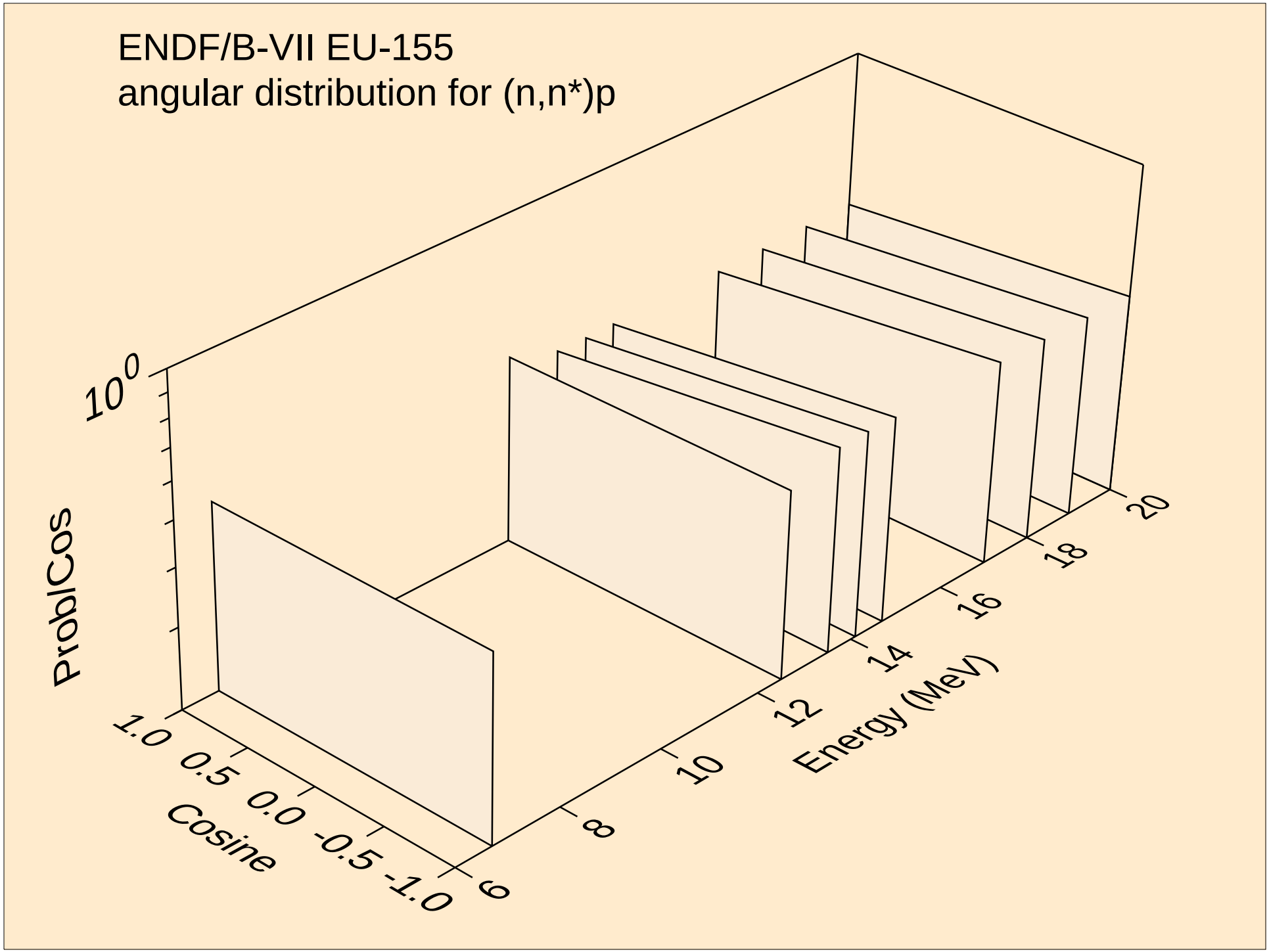

ENDF/B-VII EU-155
Threshold reactions
100
*10-3
80
60
40
20
0
(n,xt)
Cross section (barns)
4
6
8
10
12
14
16
18
20
Energy (MeV)

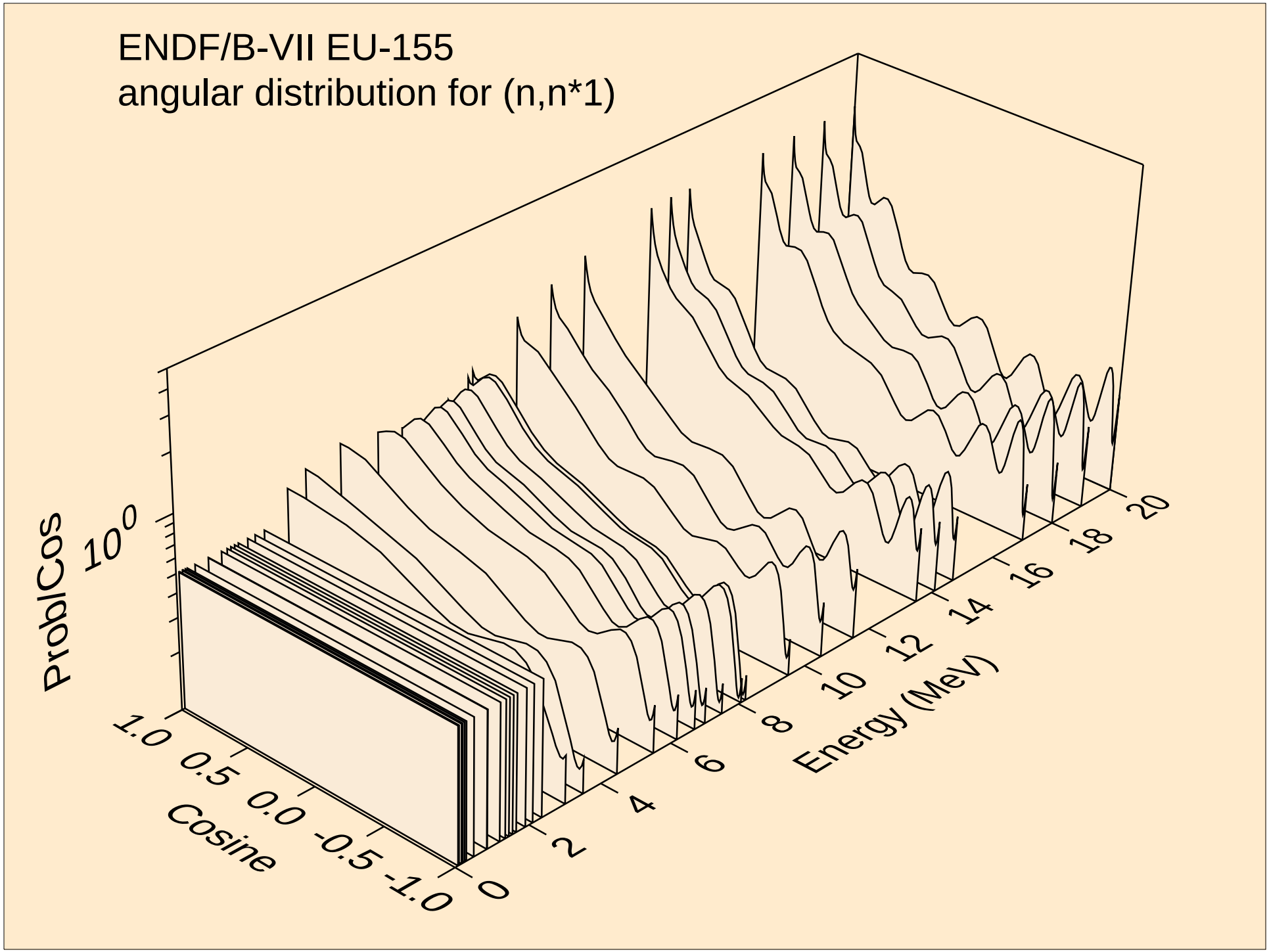

ENDF/B-VII EU-155
angular distribution for elastic
ProbICos
10^{0}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

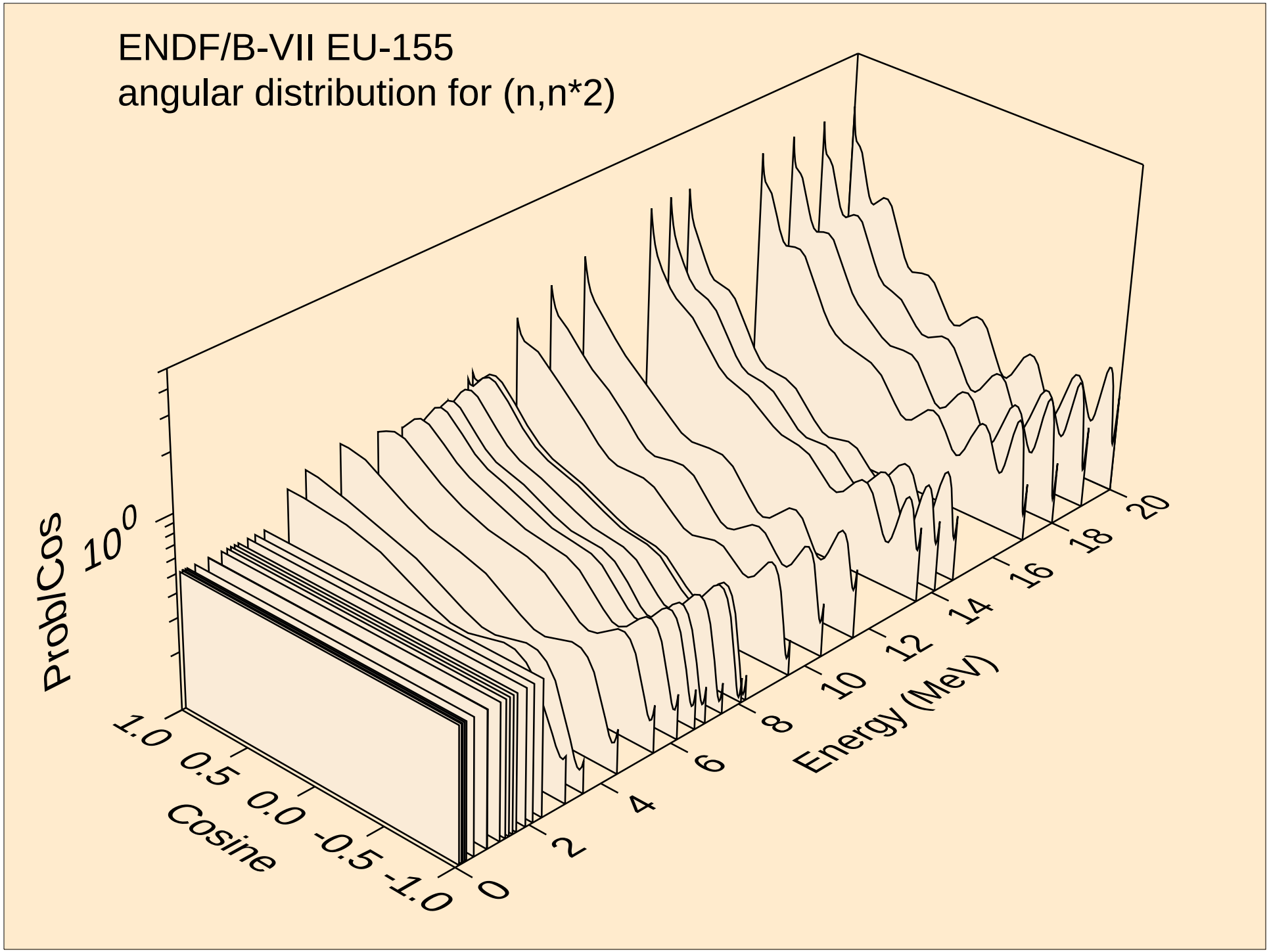

ENDF/B-VII EU-155
angular distribution for (n,2n)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
8
10
12
14
16
18
20
Energy (MeV)

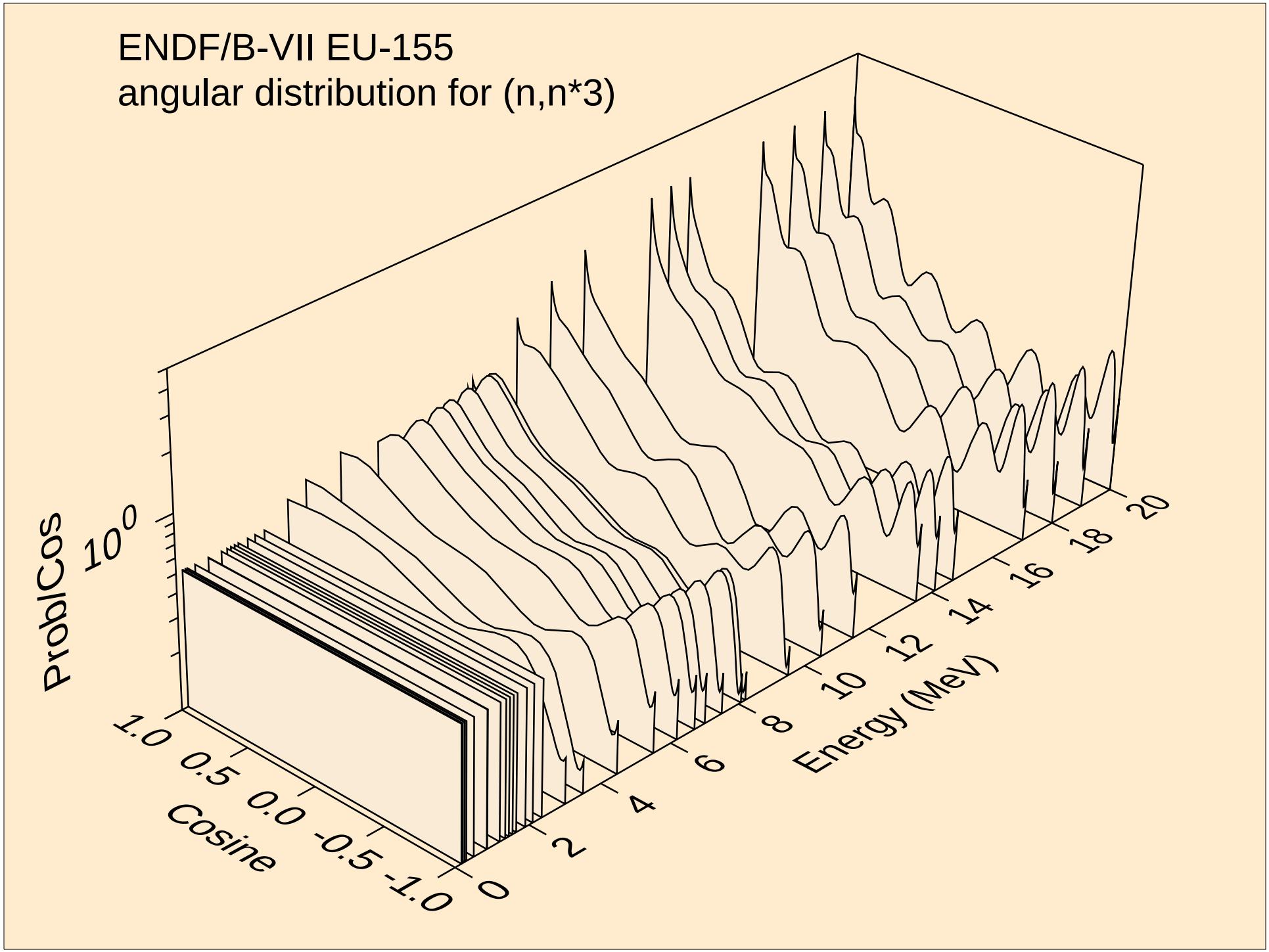

ENDF/B-VII EU-155
angular distribution for (n,3n)
ProbCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
14
15
16
17
18
19
20
Energy (MeV)

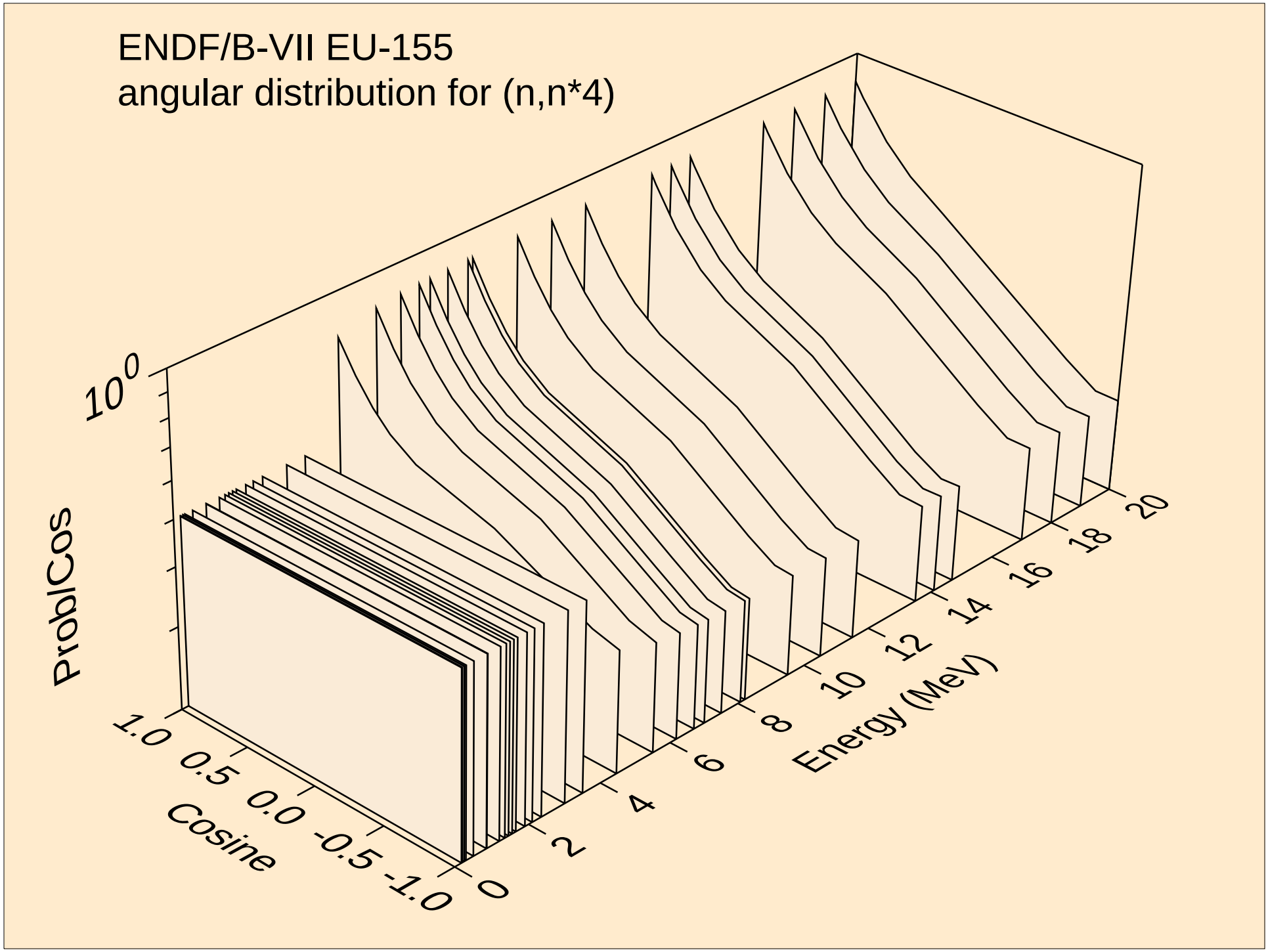

ENDF/B-VII EU-155
angular distribution for (n,n*)a
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

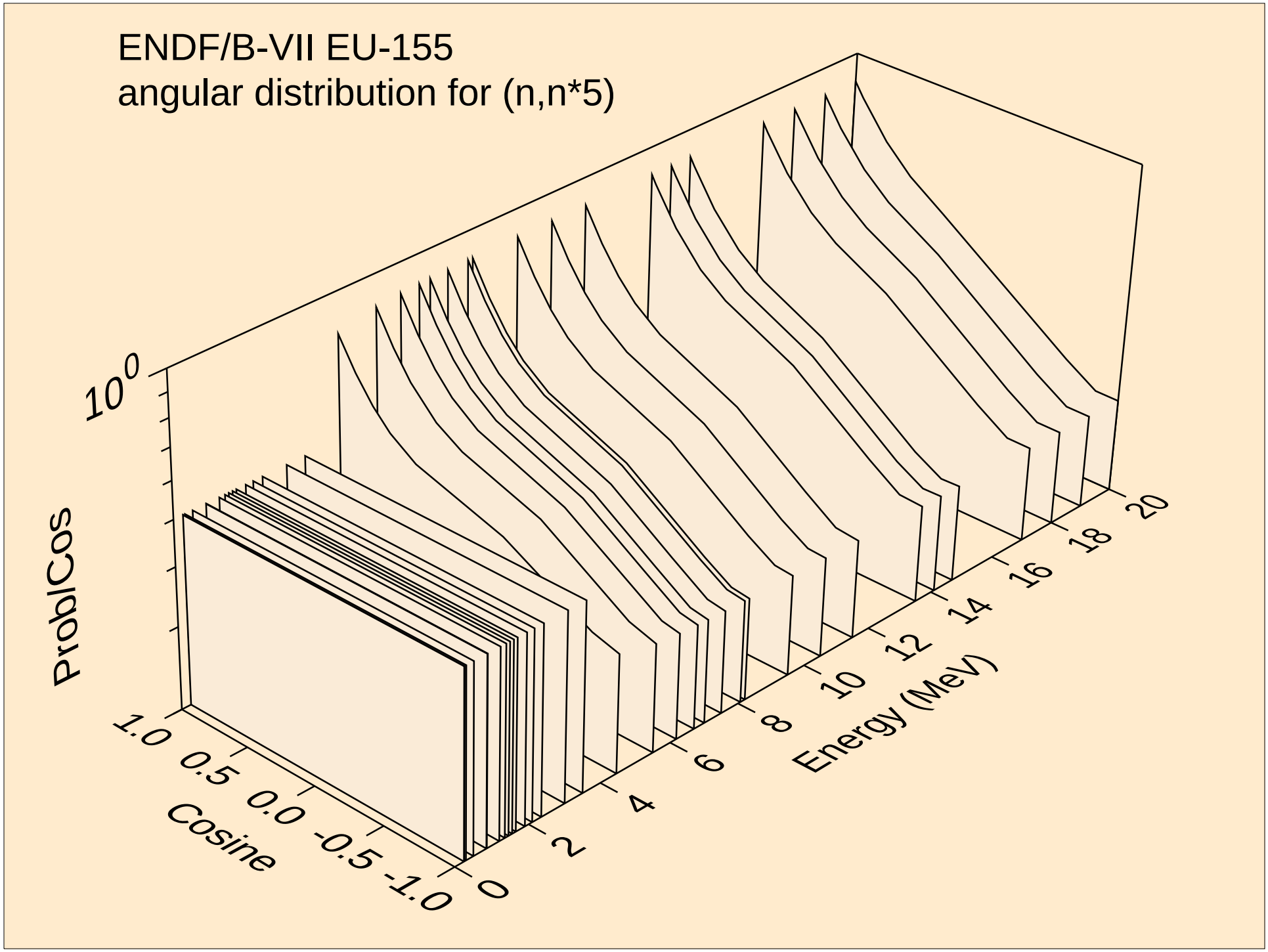

ENDF/B-VII EU-155
angular distribution for (n,n*)p
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

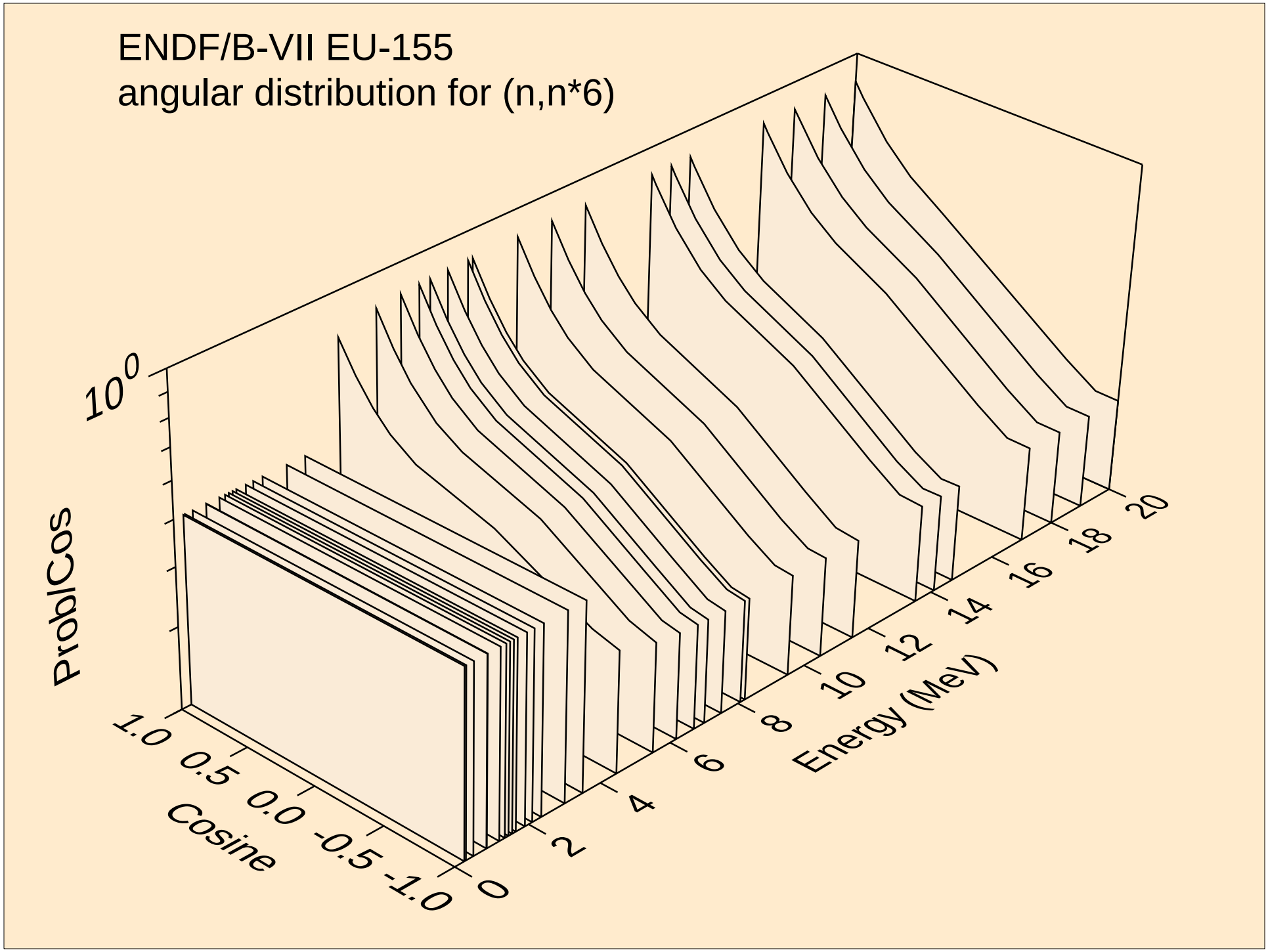

ENDF/B-VII EU-155
angular distribution for (n,n*1)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

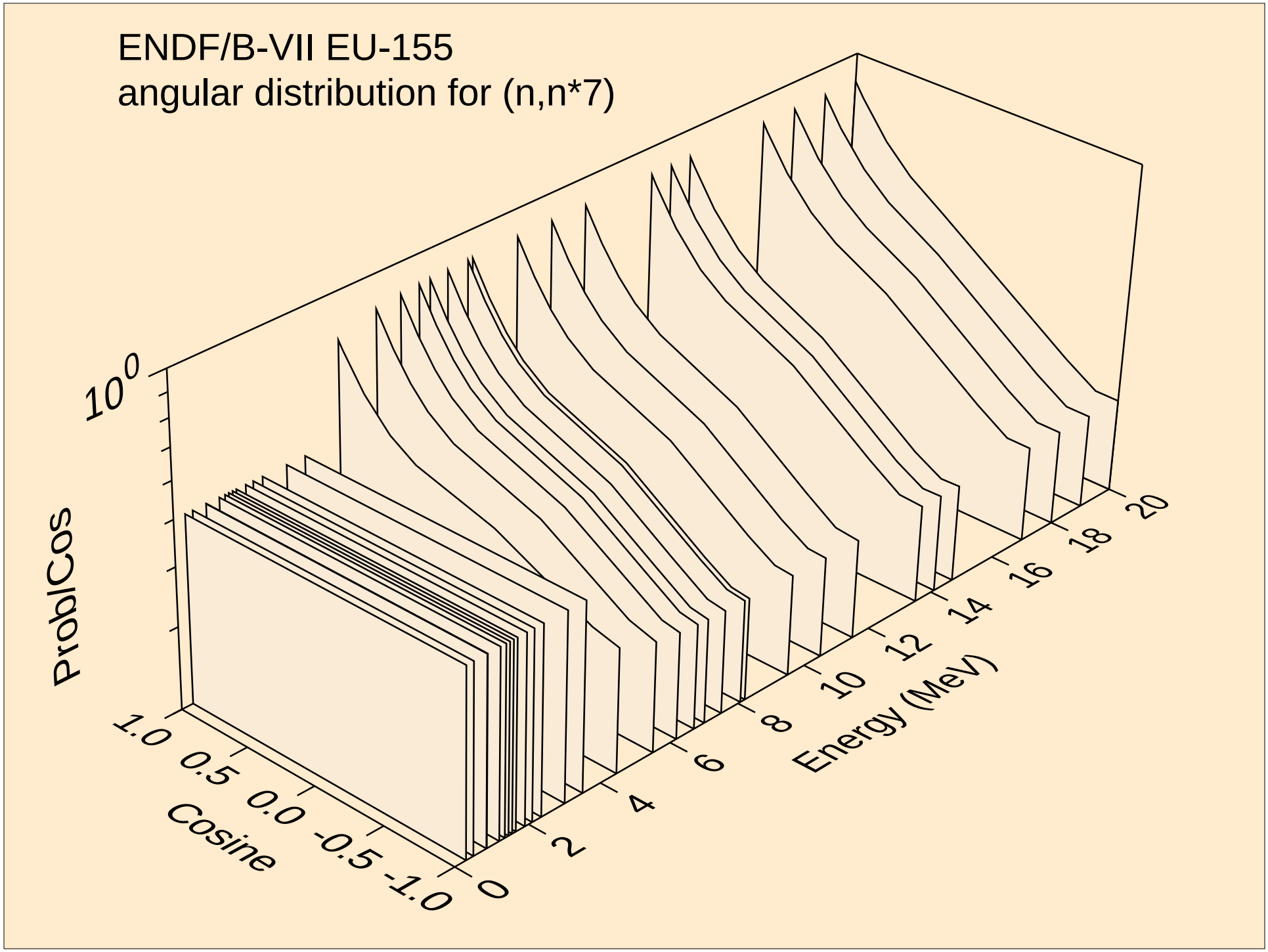

ENDF/B-VII EU-155
angular distribution for (n,n*2)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

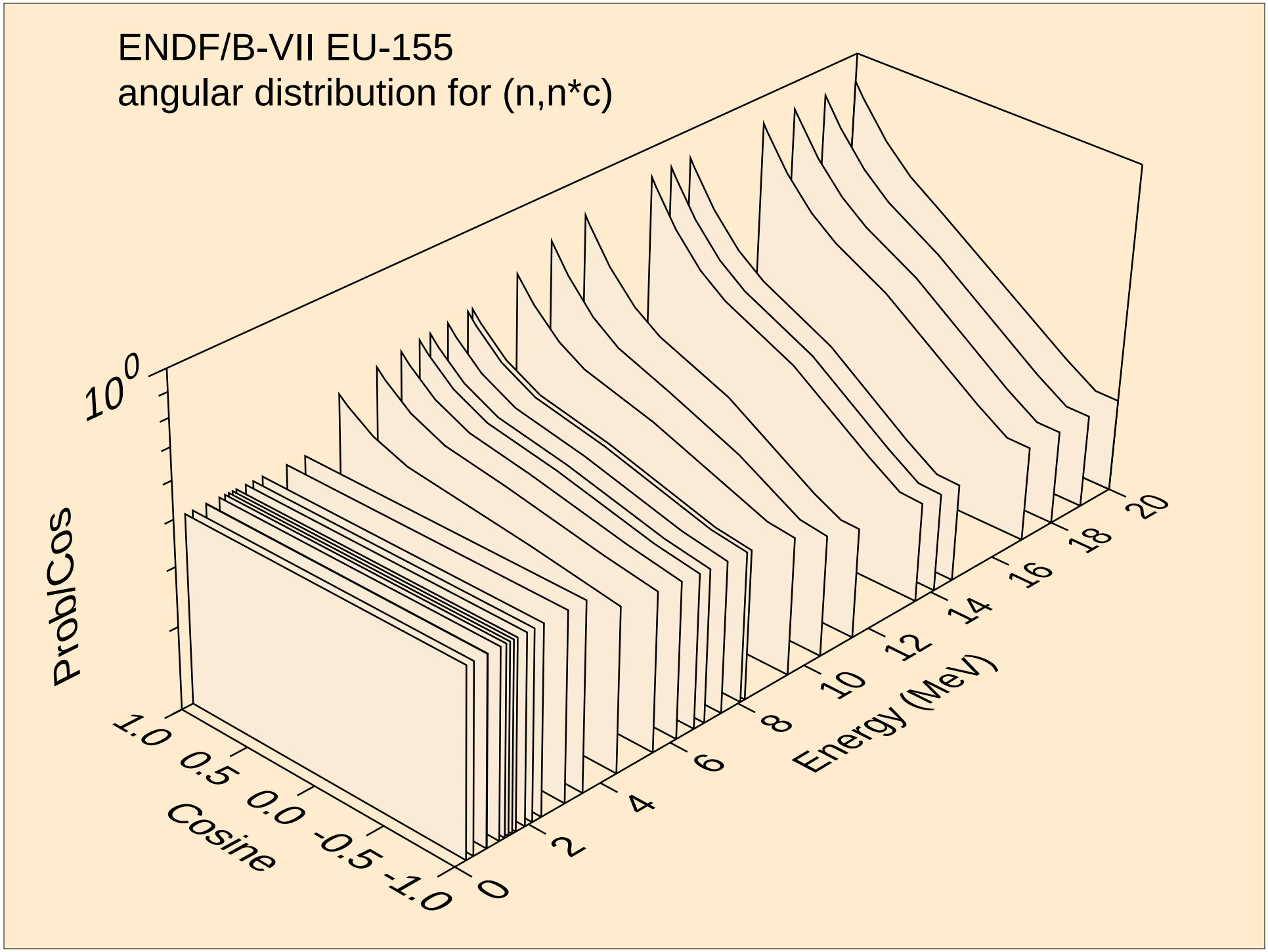

ENDF/B-VII EU-155
angular distribution for (n,n*3)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

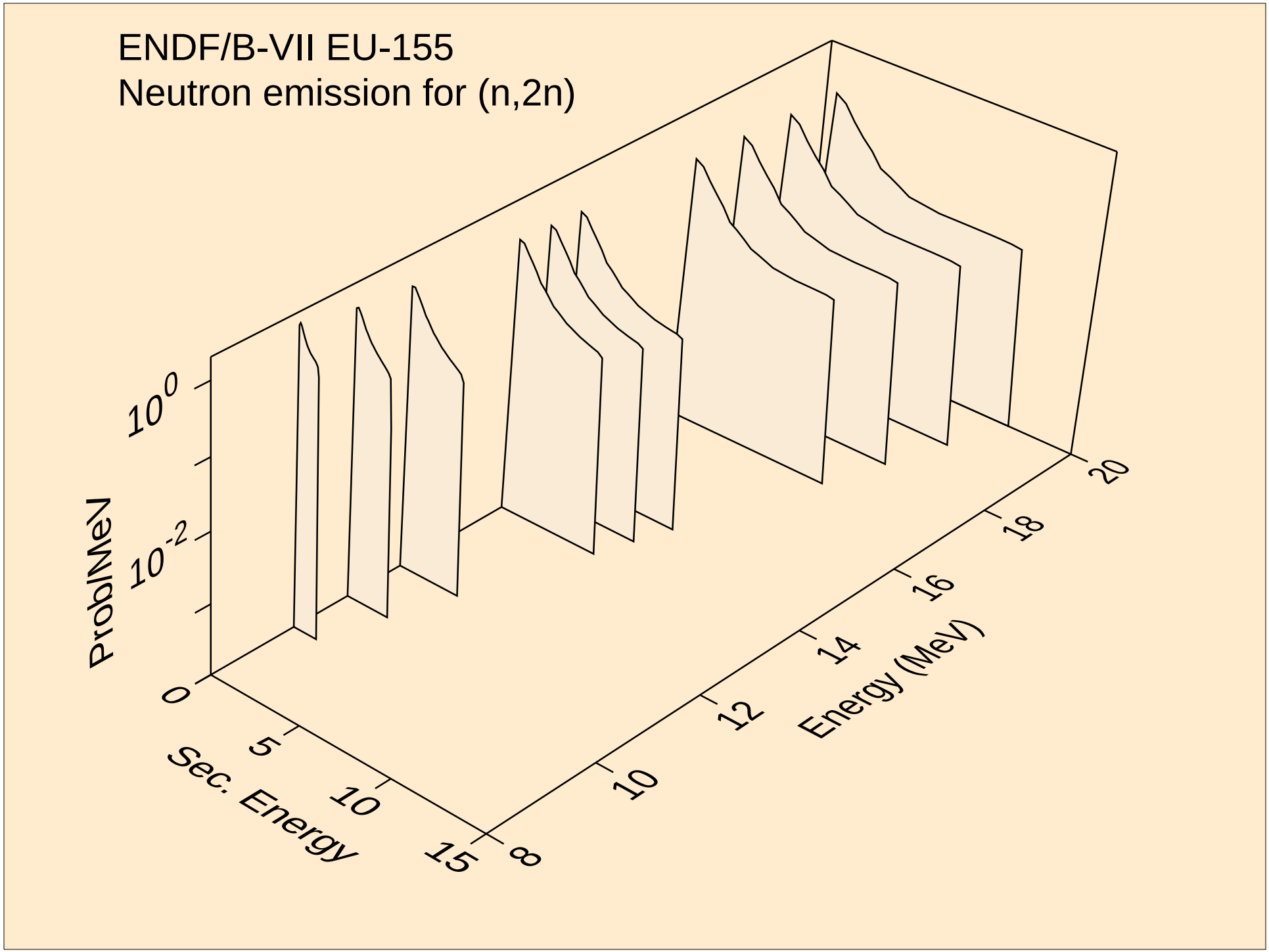

ENDF/B-VII EU-155
angular distribution for (n,n*4)
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

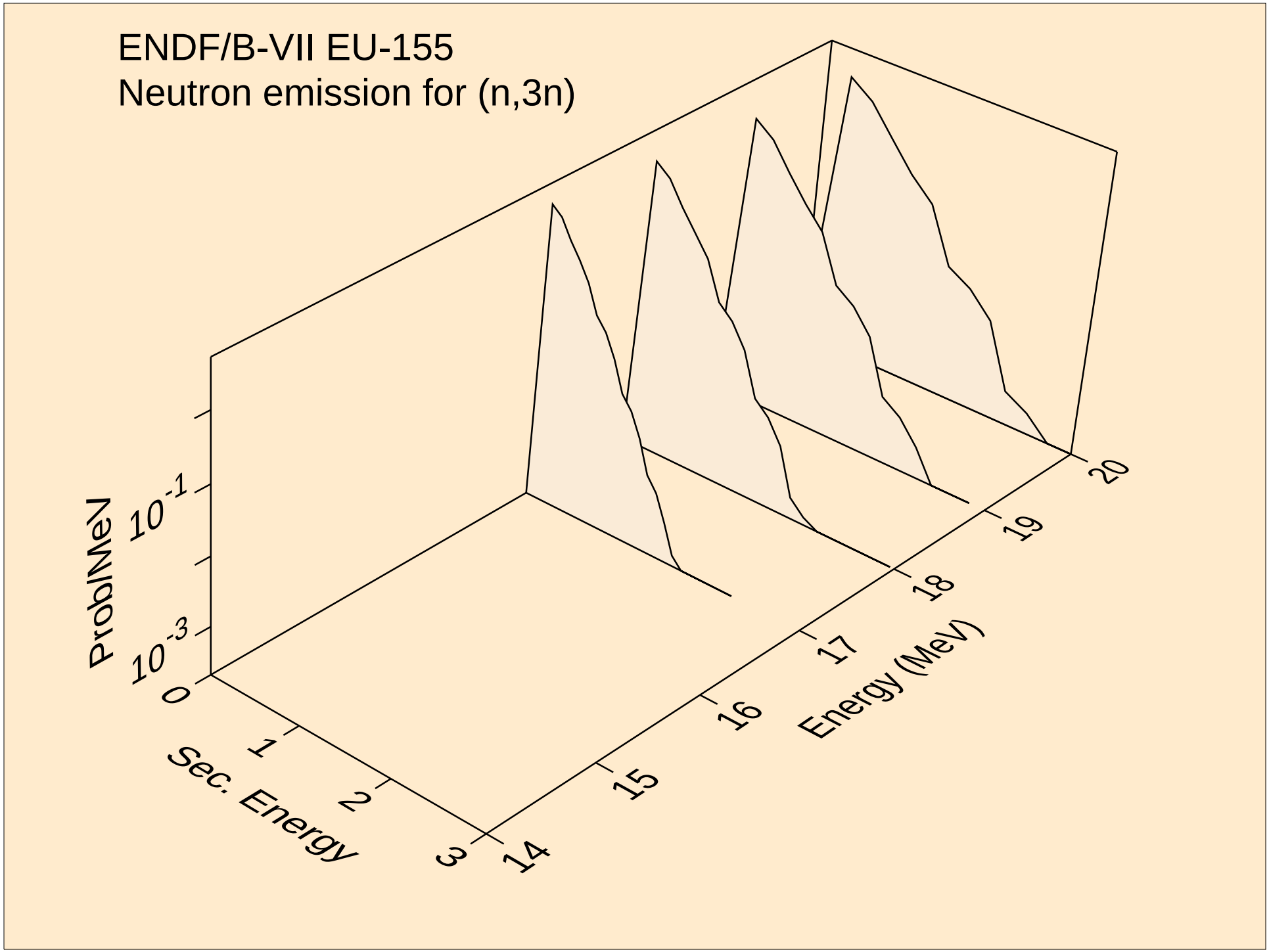

ENDF/B-VII EU-155
angular distribution for (n,n*5)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

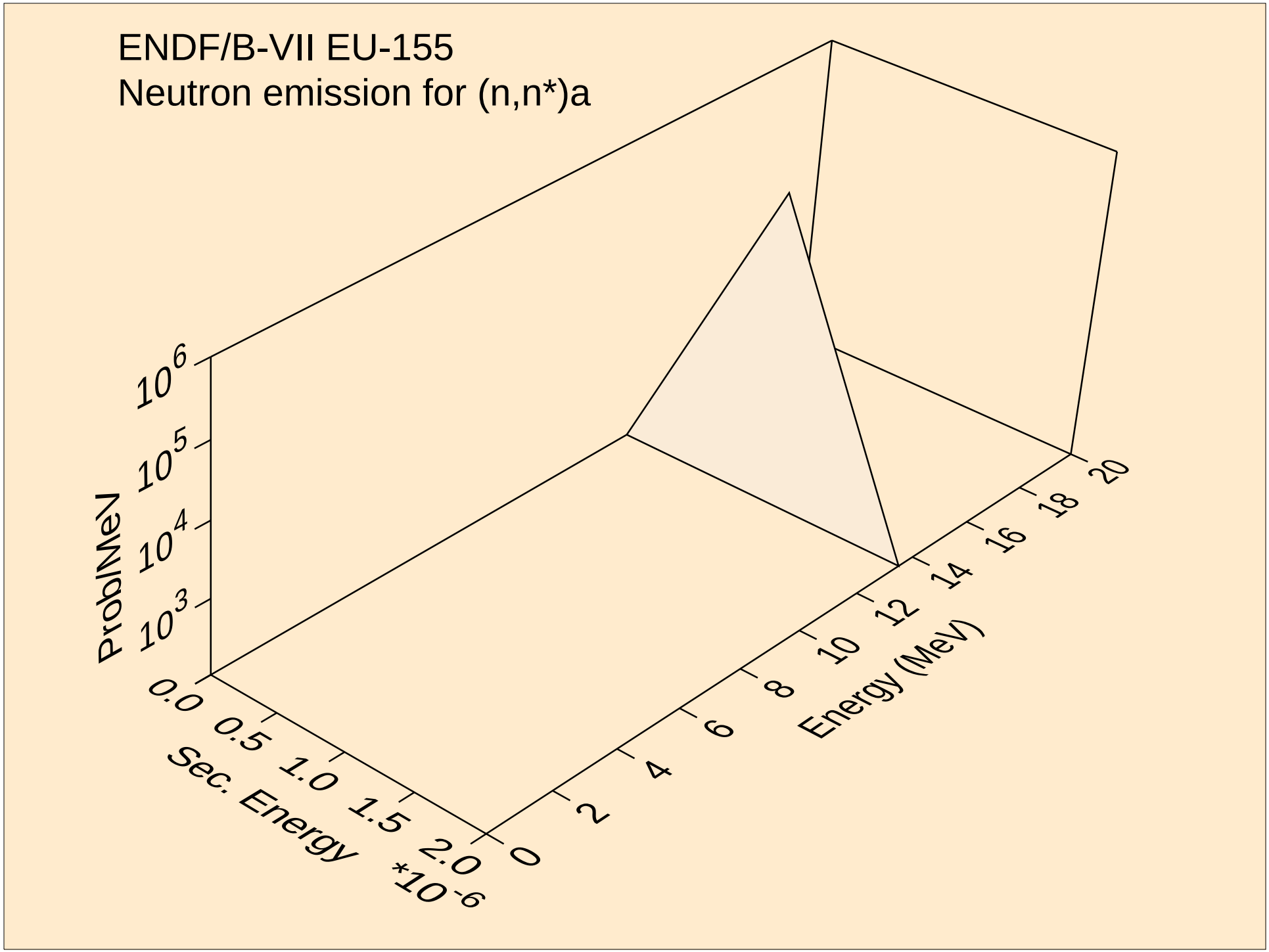

ENDF/B-VII EU-155
angular distribution for (n,n*6)
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

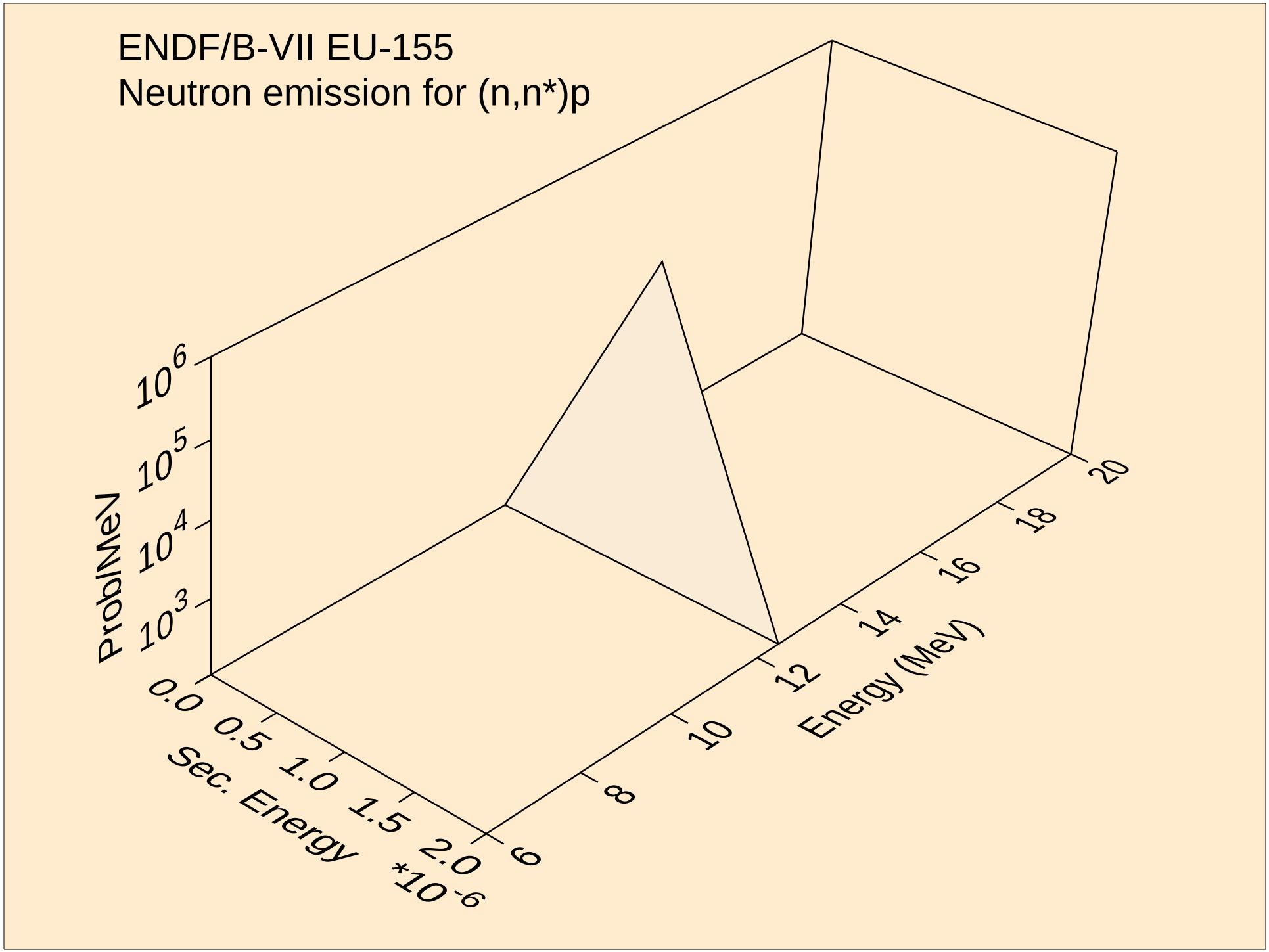

ENDF/B-VII EU-155
angular distribution for (n,n*7)
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

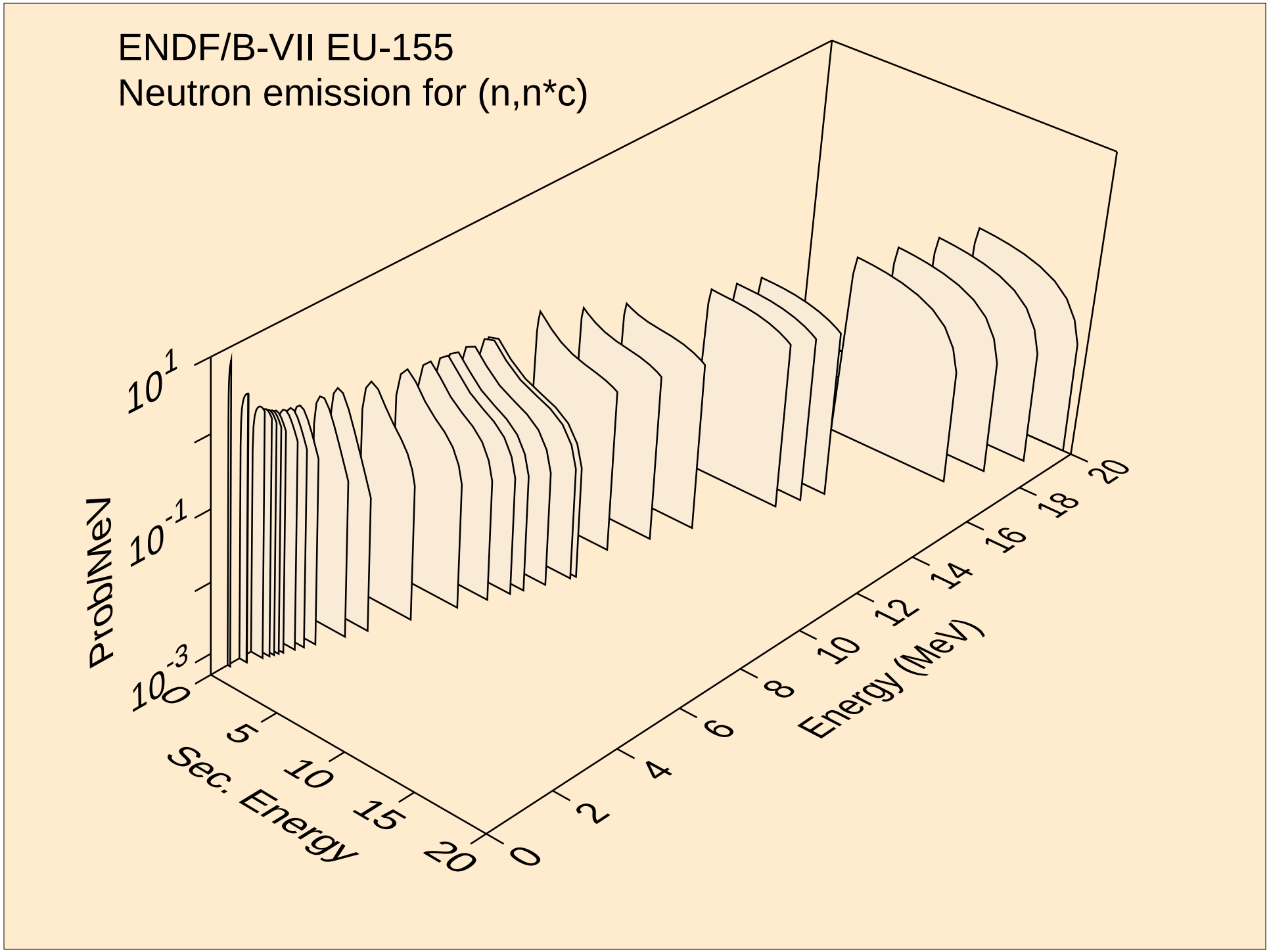

ENDF/B-VII EU-155
angular distribution for (n,n*c)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)


ENDF/B-VII EU-155
Neutron emission for (n,2n)
Prob/MeV
10^{0}
10^{-2}
0
5
10
15
Sec. Energy
8
10
12
14
16
18
20
Energy (MeV)


ENDF/B-VII EU-155
Neutron emission for (n,3n)
Prob/MeV
10-1
10-3
0
Sec. Energy
1
2
3
14
15
16
17
18
19
20
Energy (MeV)


ENDF/B-VII EU-155
Neutron emission for (n,n*)a
Prob/MeV
10^6
10^5
10^4
10^3
0.0
0.5
1.0
1.5
2.0
Sec. Energy *10-6
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)


ENDF/B-VII EU-155
Neutron emission for (n,n*)p
Prob/MeV
10^6
10^5
10^4
10^3
0.0
0.5
1.0
1.5
2.0
Sec. Energy *10-6
6
8
10
12
14
16
18
20
Energy (MeV)


ENDF/B-VII EU-155
Neutron emission for (n,n*c)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
5
10
15
20
Sec. Energy
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)