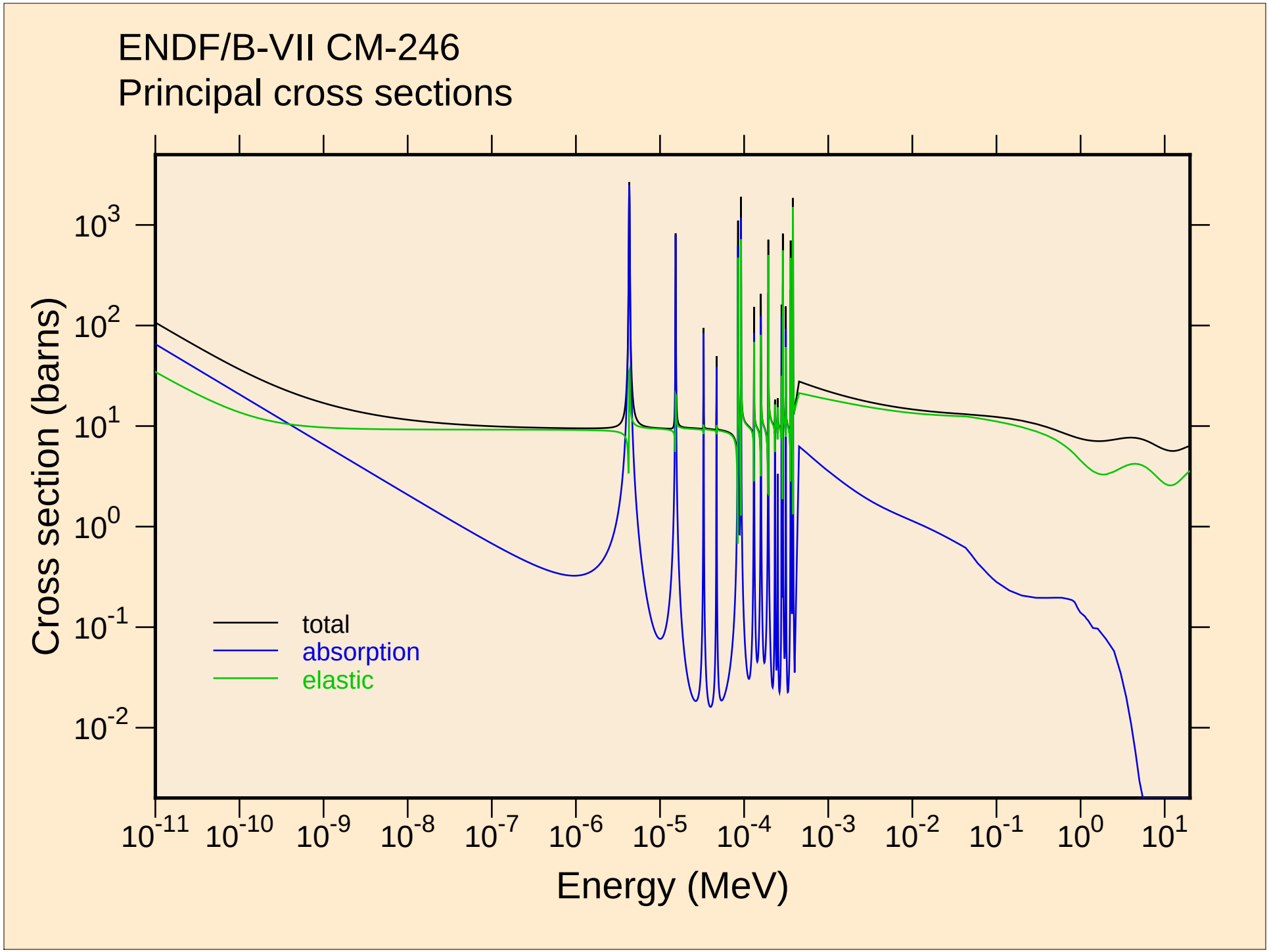
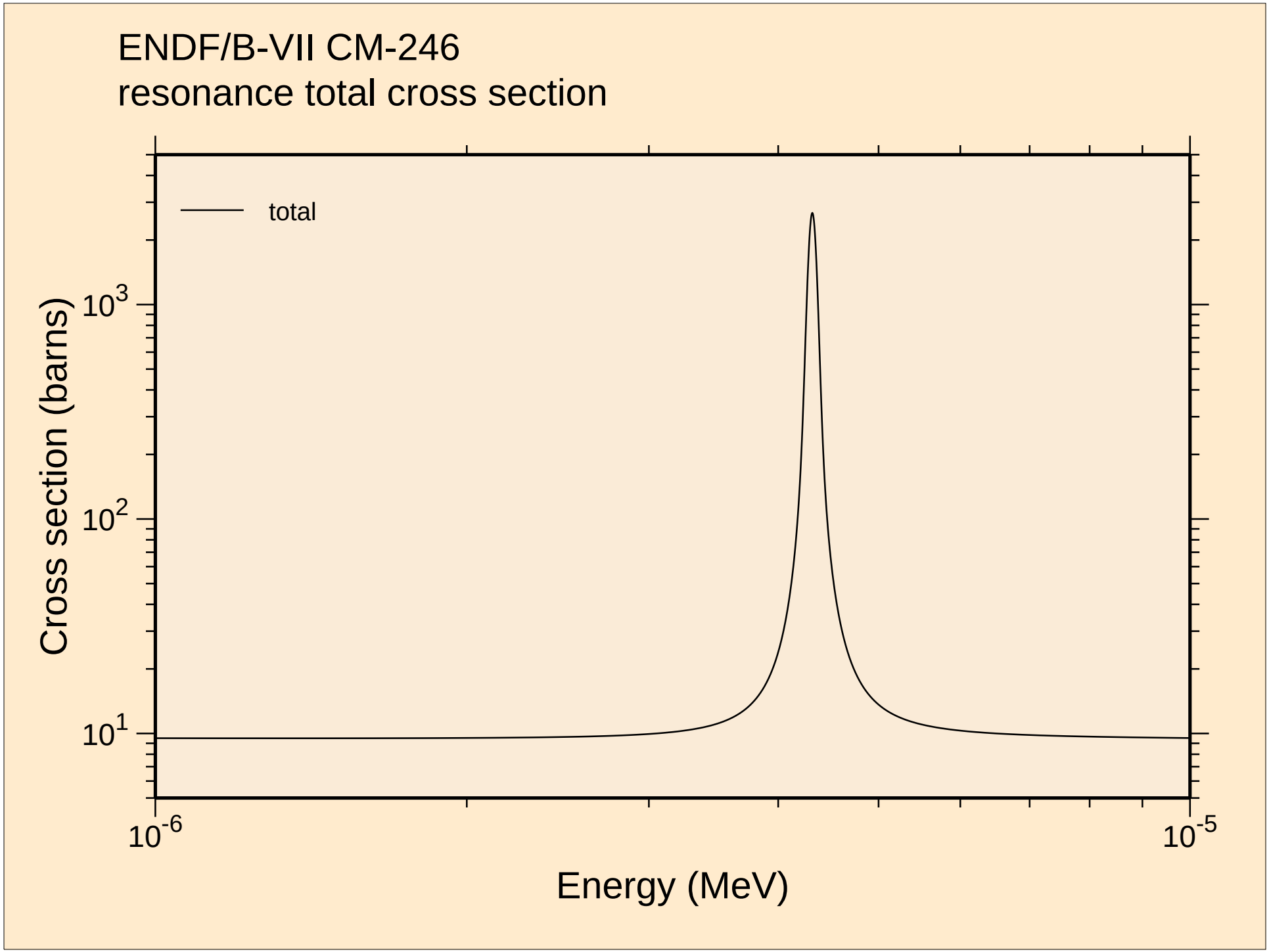
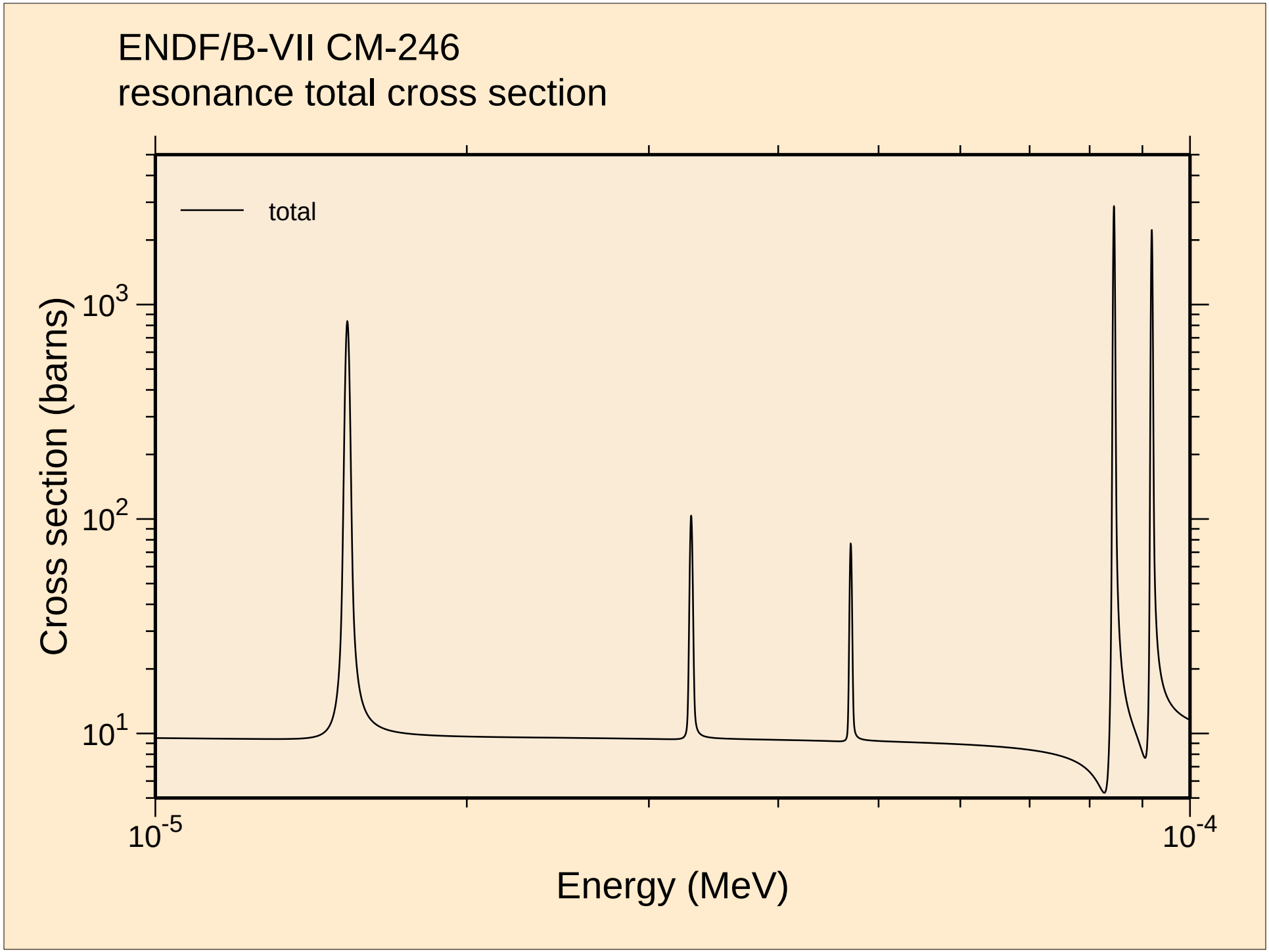
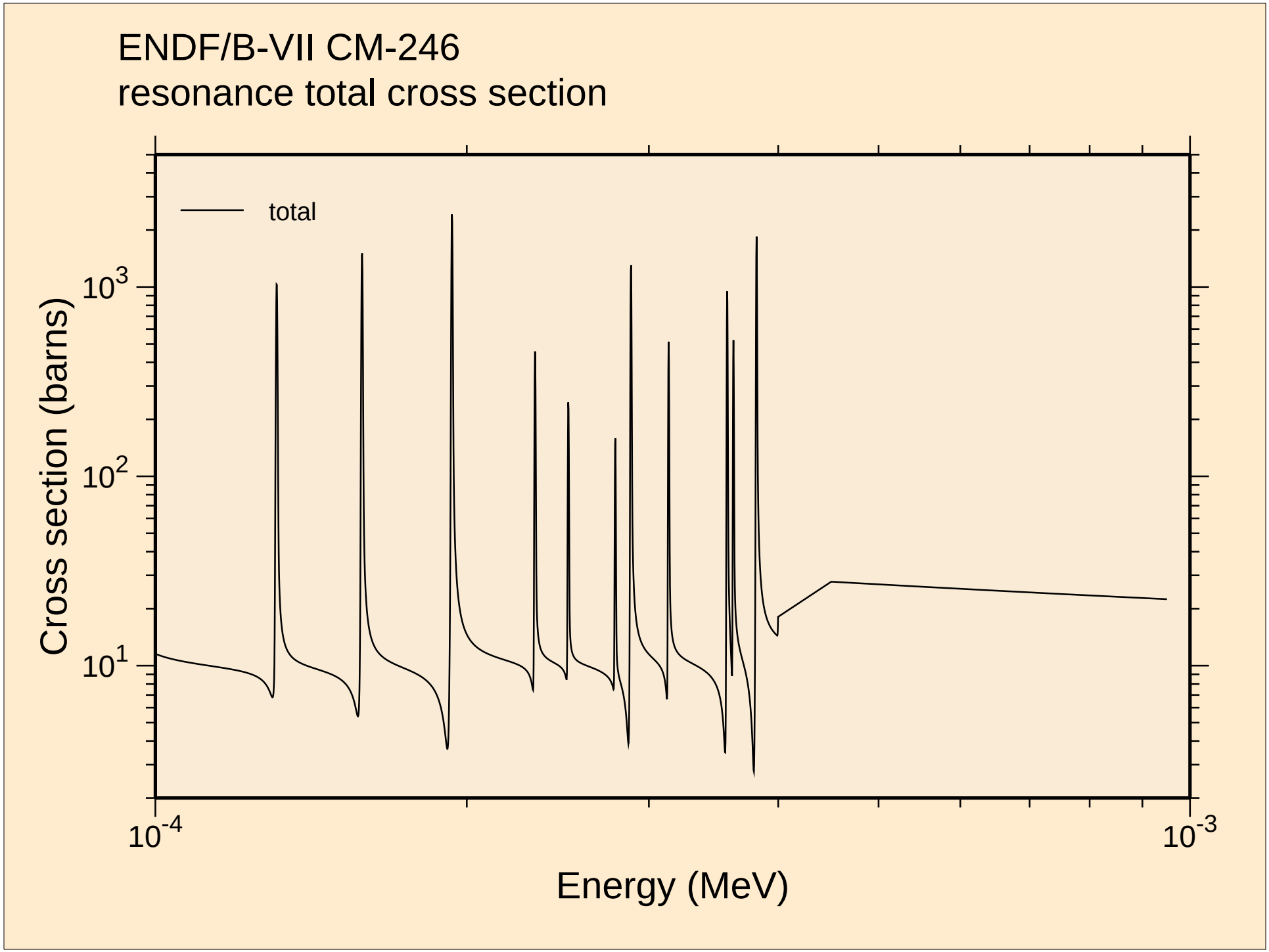
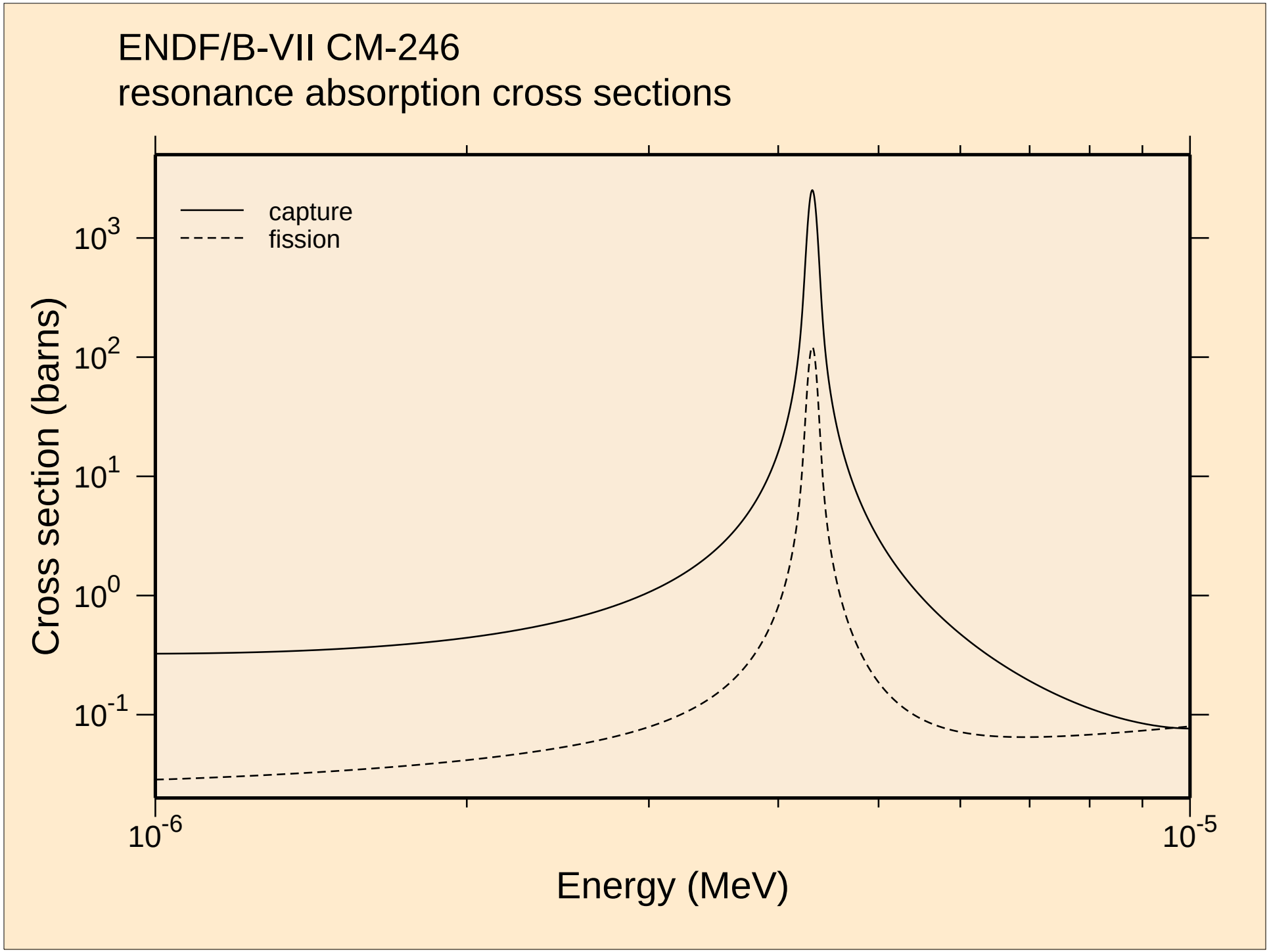

ENDF/B-VII CM-246
Principal cross sections
Cross section (barns)
10^{3}
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
total
absorption
elastic
10^{-11} 10^{-10} 10^{-9} 10^{-8} 10^{-7} 10^{-6} 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1}
Energy (MeV)

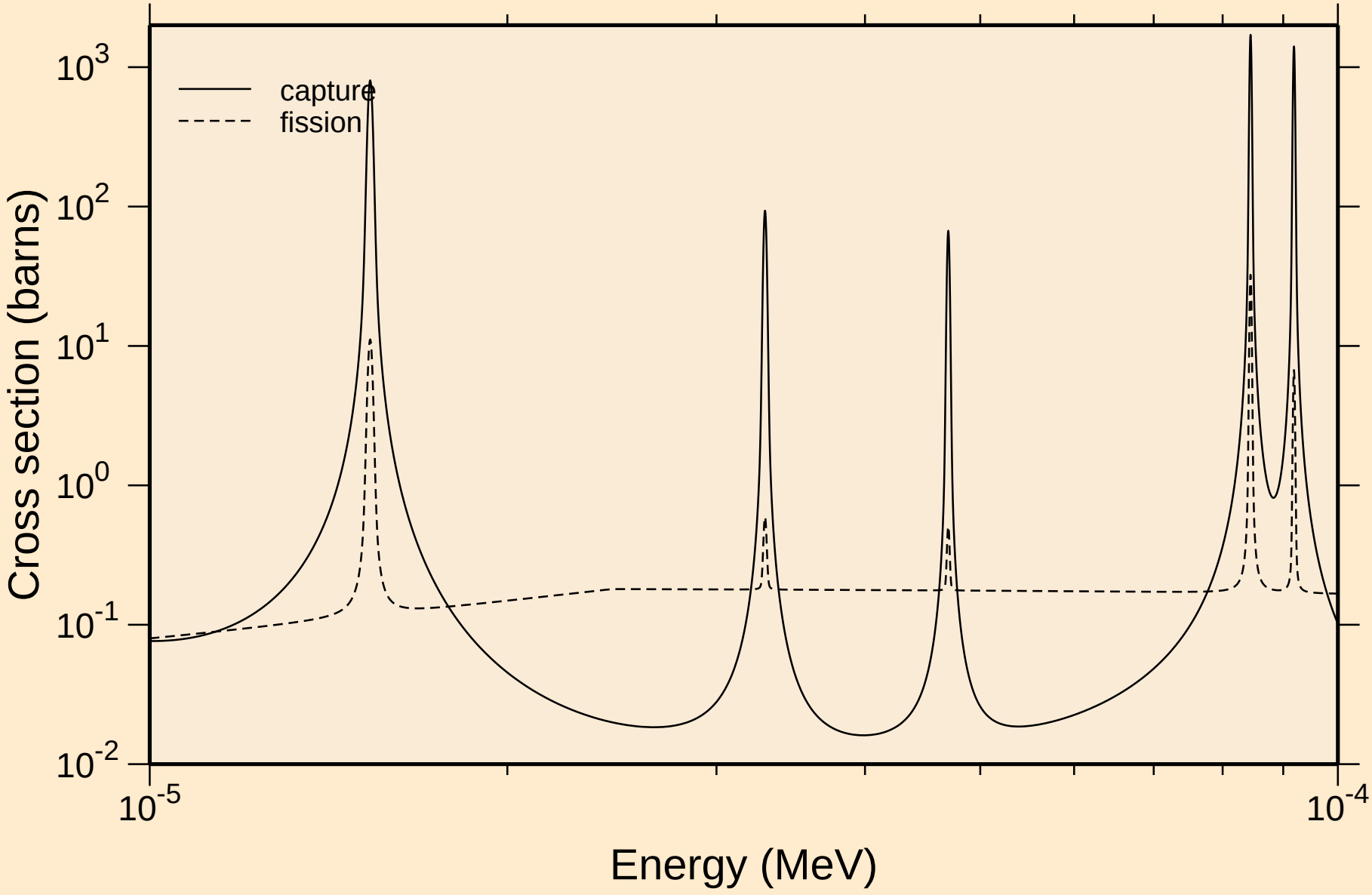

ENDF/B-VII CM-246
resonance total cross section
total
Cross section (barns)
10^3
10^2
10^1
10^-6
10^-5
Energy (MeV)

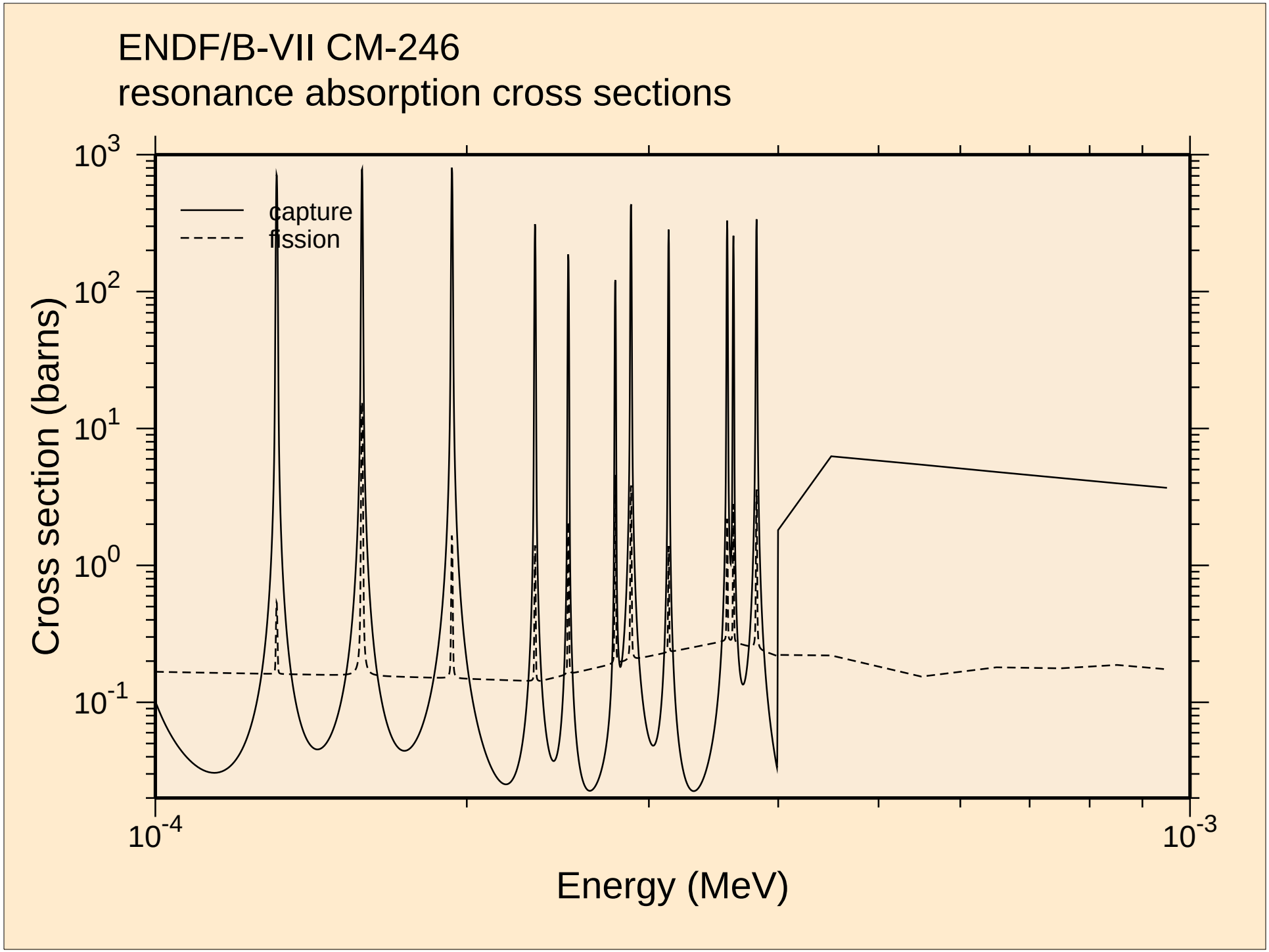

ENDF/B-VII CM-246
resonance total cross section
total
Cross section (barns)
10^3
10^2
10^1
10^-5
10^-4
Energy (MeV)


ENDF/B-VII CM-246
resonance total cross section
total
Cross section (barns)
10^3
10^2
10^1
10^-4
10^-3
Energy (MeV)

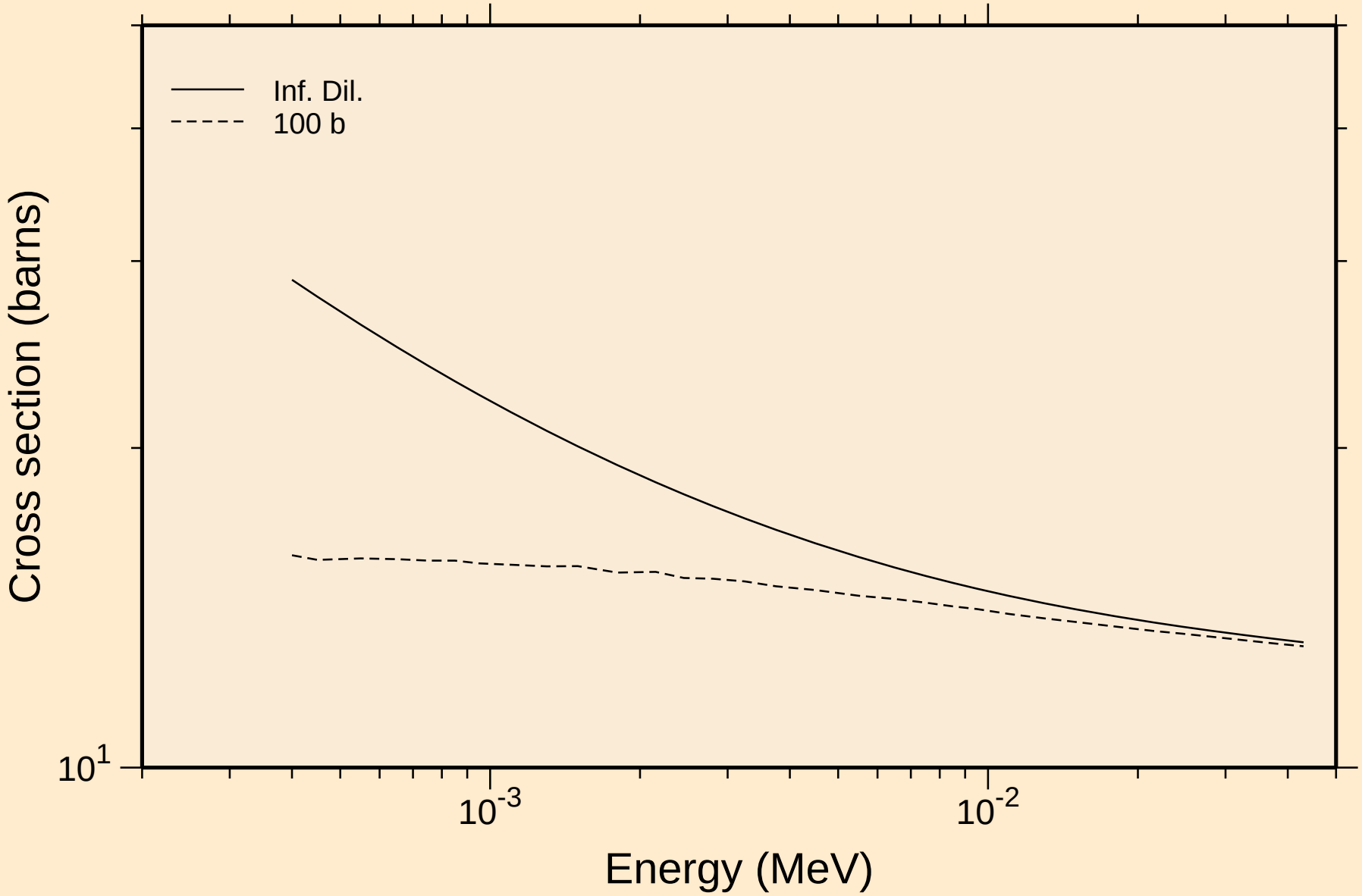

ENDF/B-VII CM-246
resonance absorption cross sections
capture
fission
Cross section (barns)
10^3
10^2
10^1
10^0
10^-1
10^-6
10^-5
Energy (MeV)

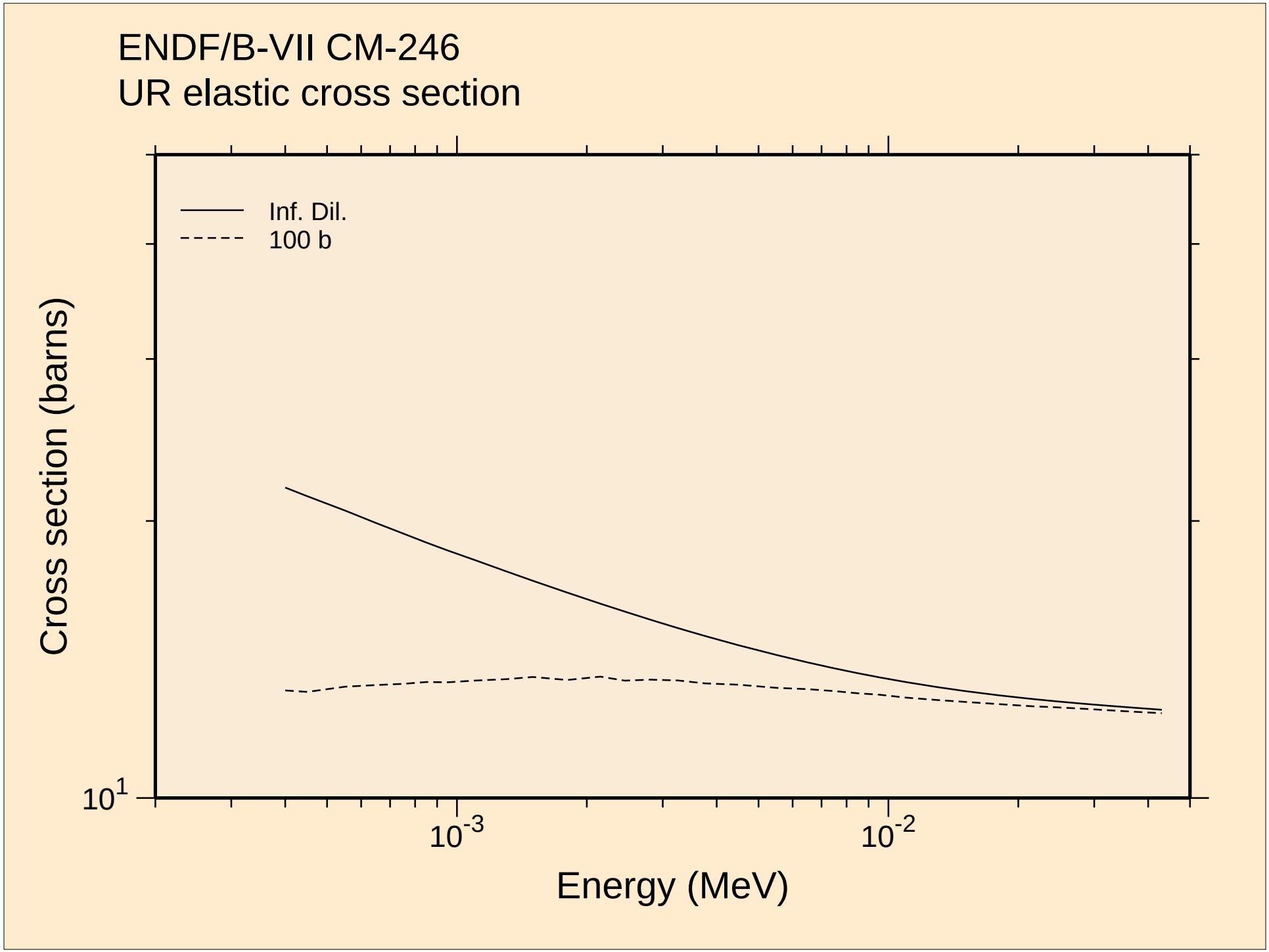
ENDF/B-VII CM-246
resonance absorption cross sections



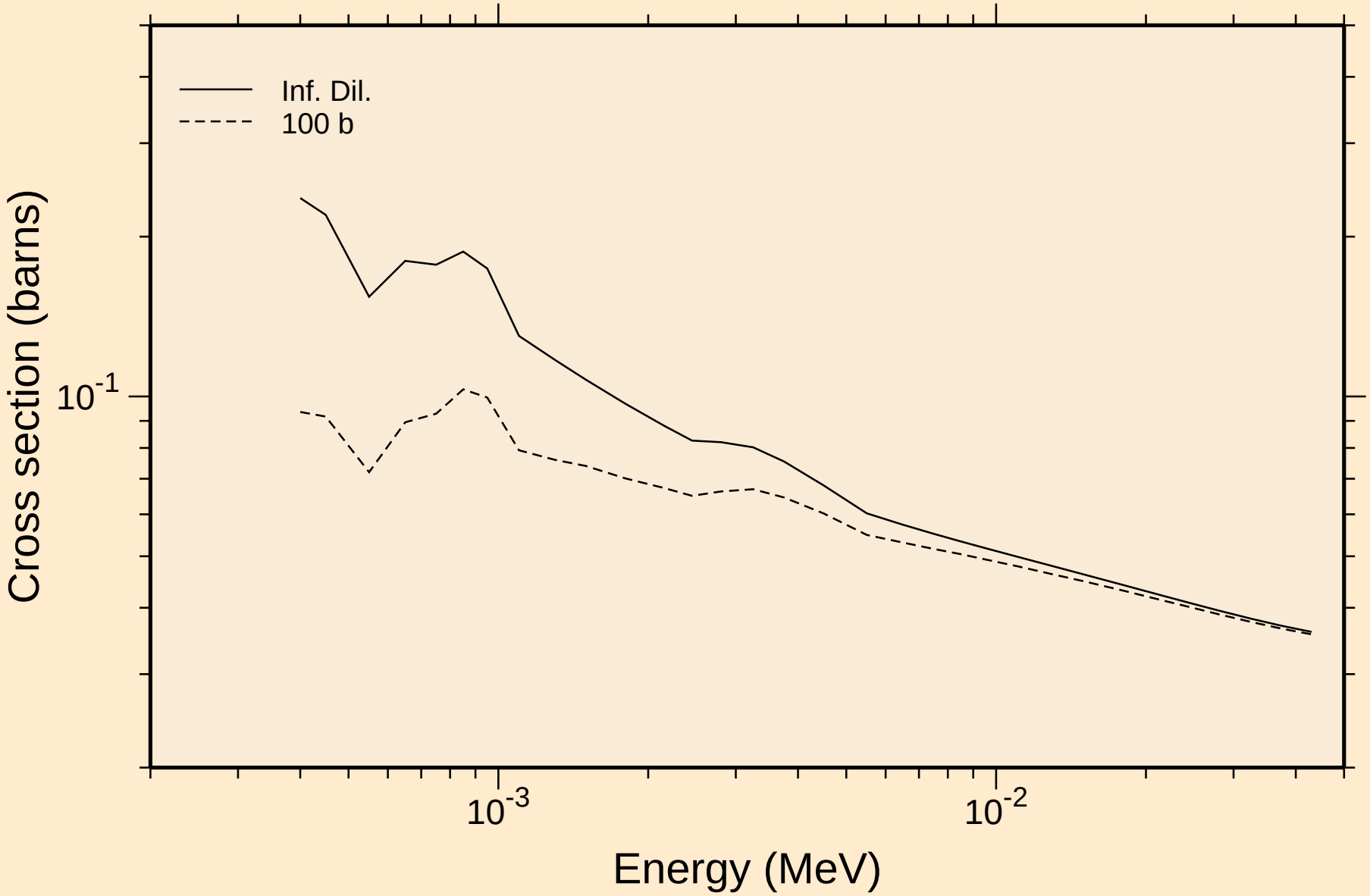

ENDF/B-VII CM-246
resonance absorption cross sections
capture
fission
Cross section (barns)
10^{3}
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-4}
10^{-3}
Energy (MeV)

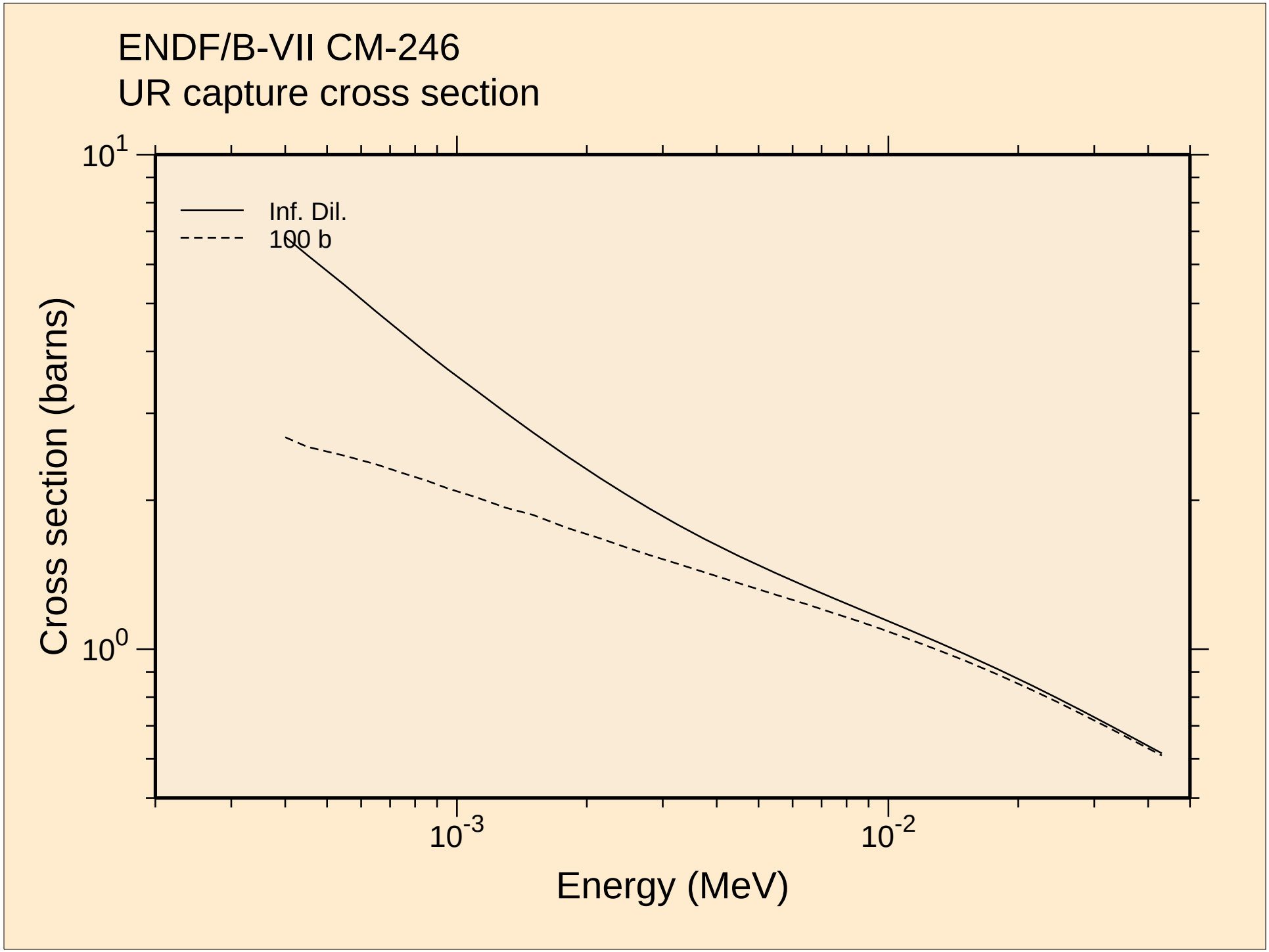
ENDF/B-VII CM-246
UR total cross section

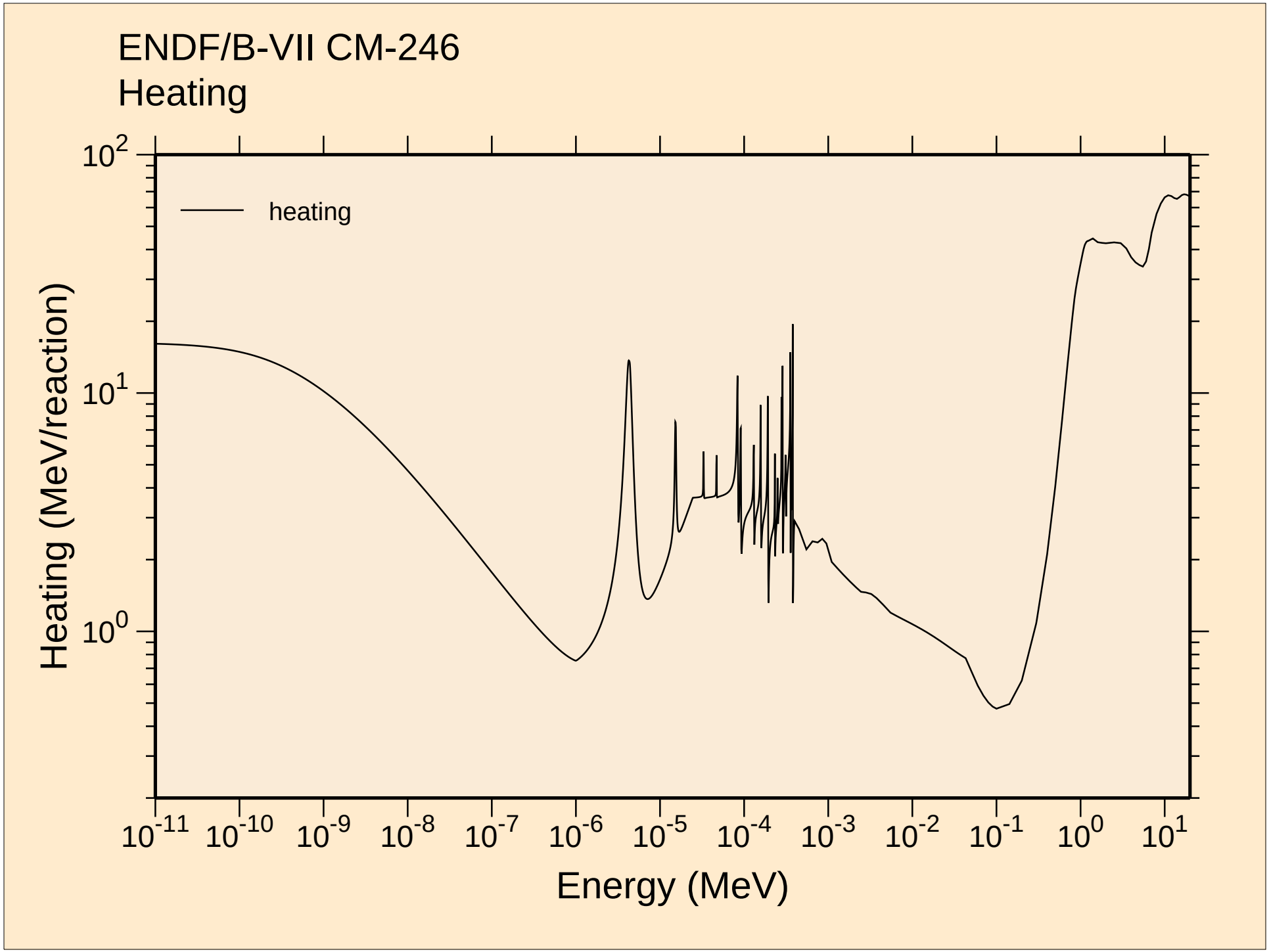


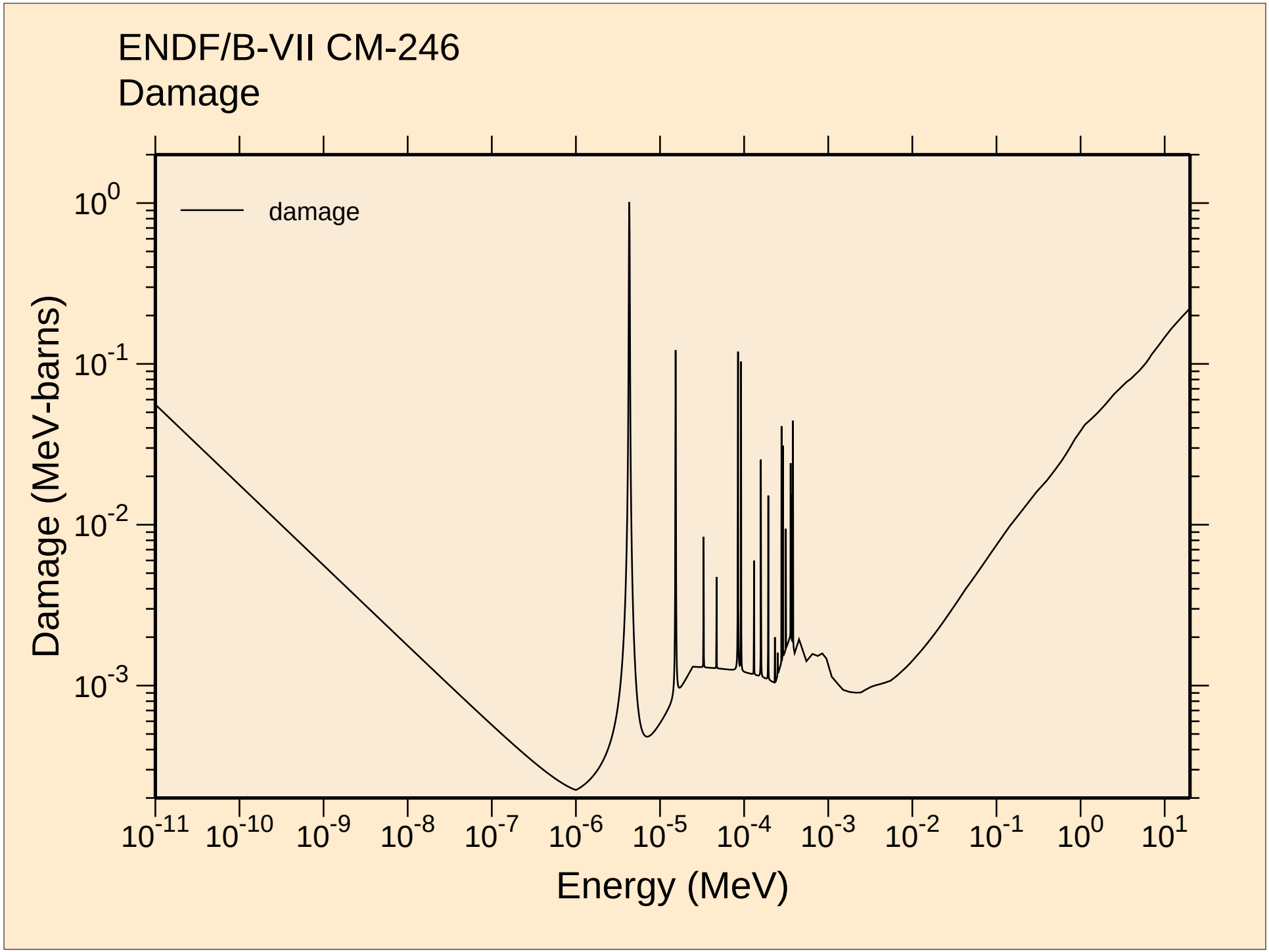

ENDF/B-VII CM-246
UR elastic cross section
Inf. Dil.
100 b
Cross section (barns)
10^1
10^-3
10^-2
Energy (MeV)

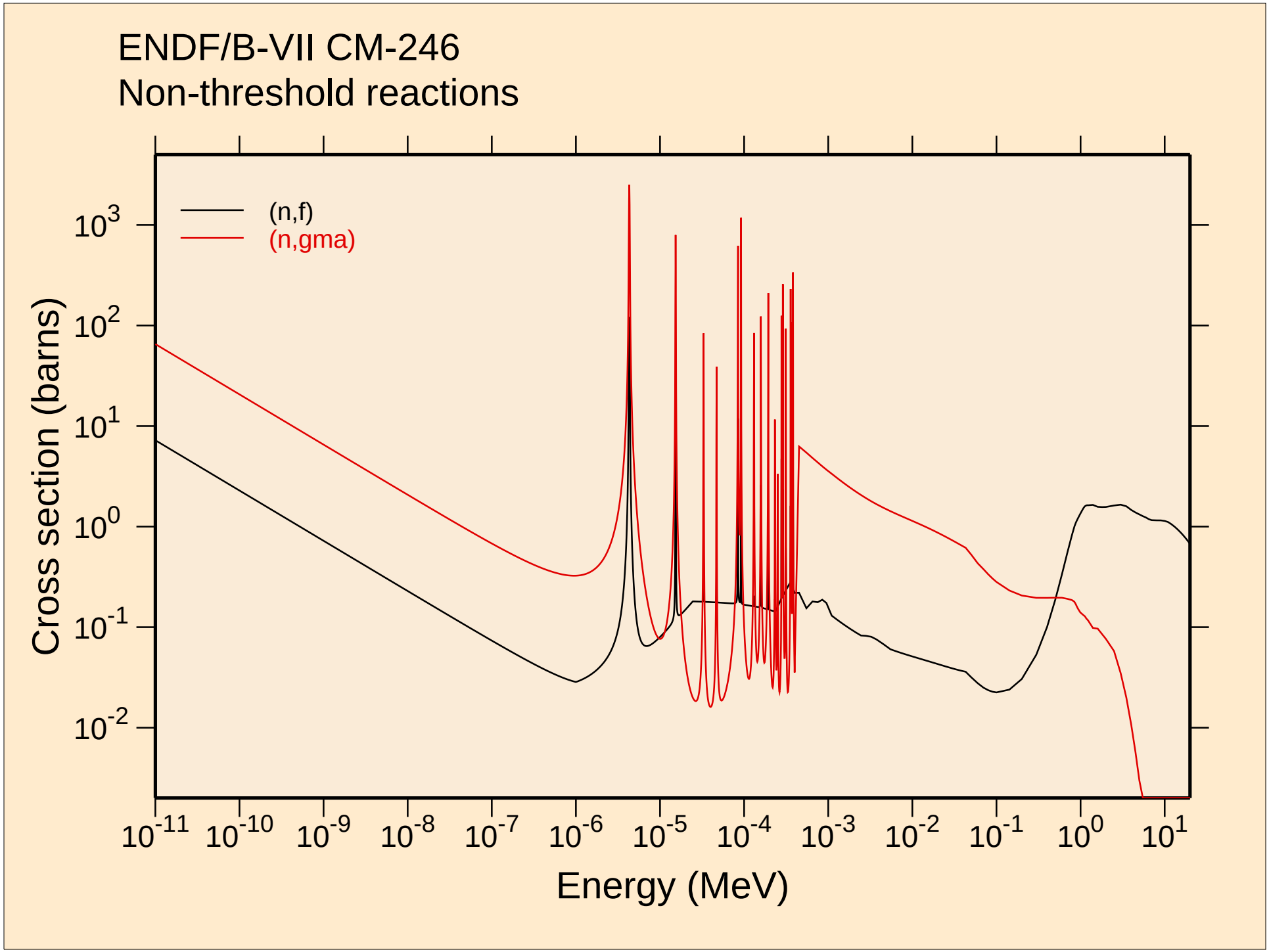
ENDF/B-VII CM-246
UR fission cross section

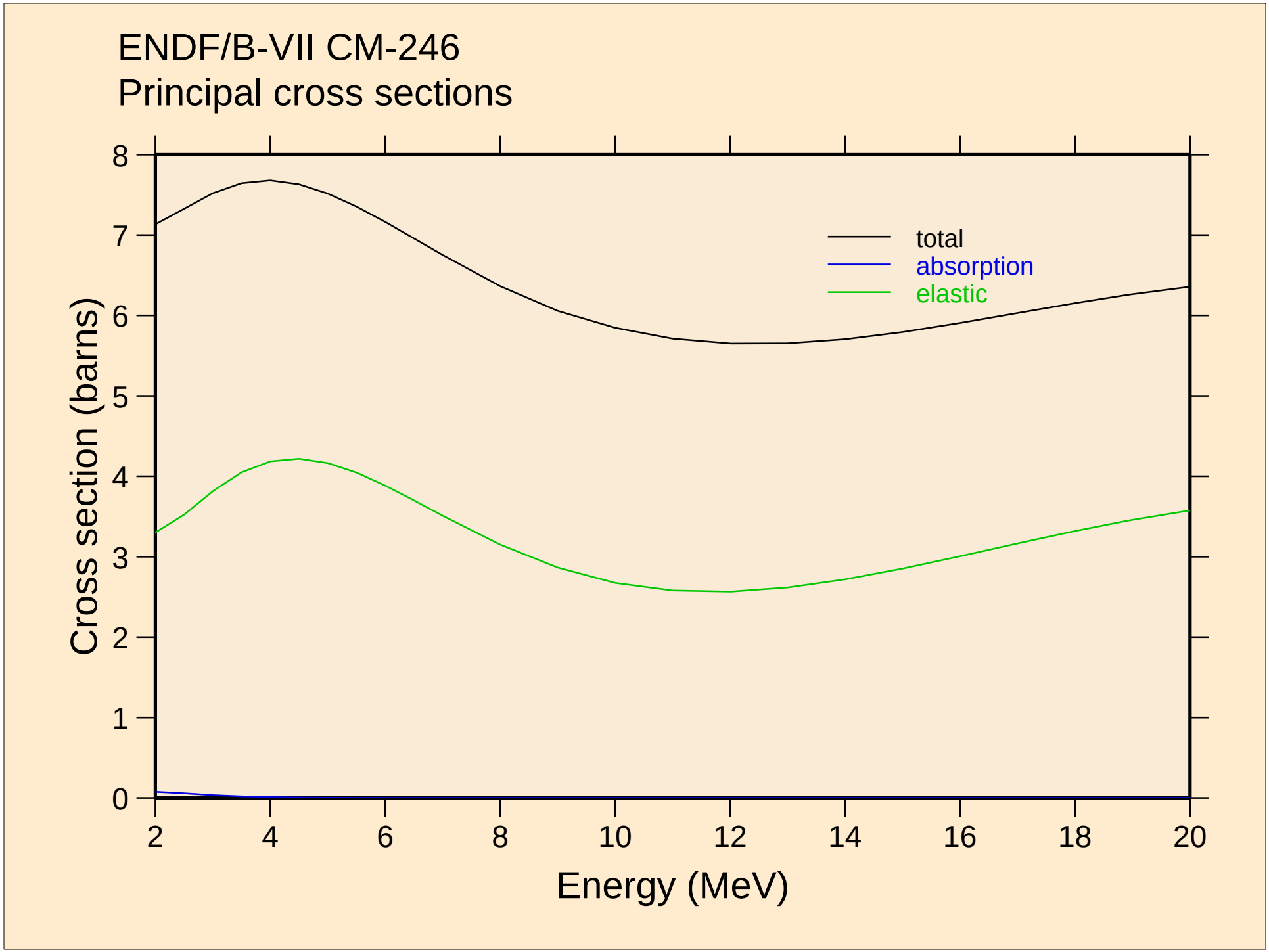


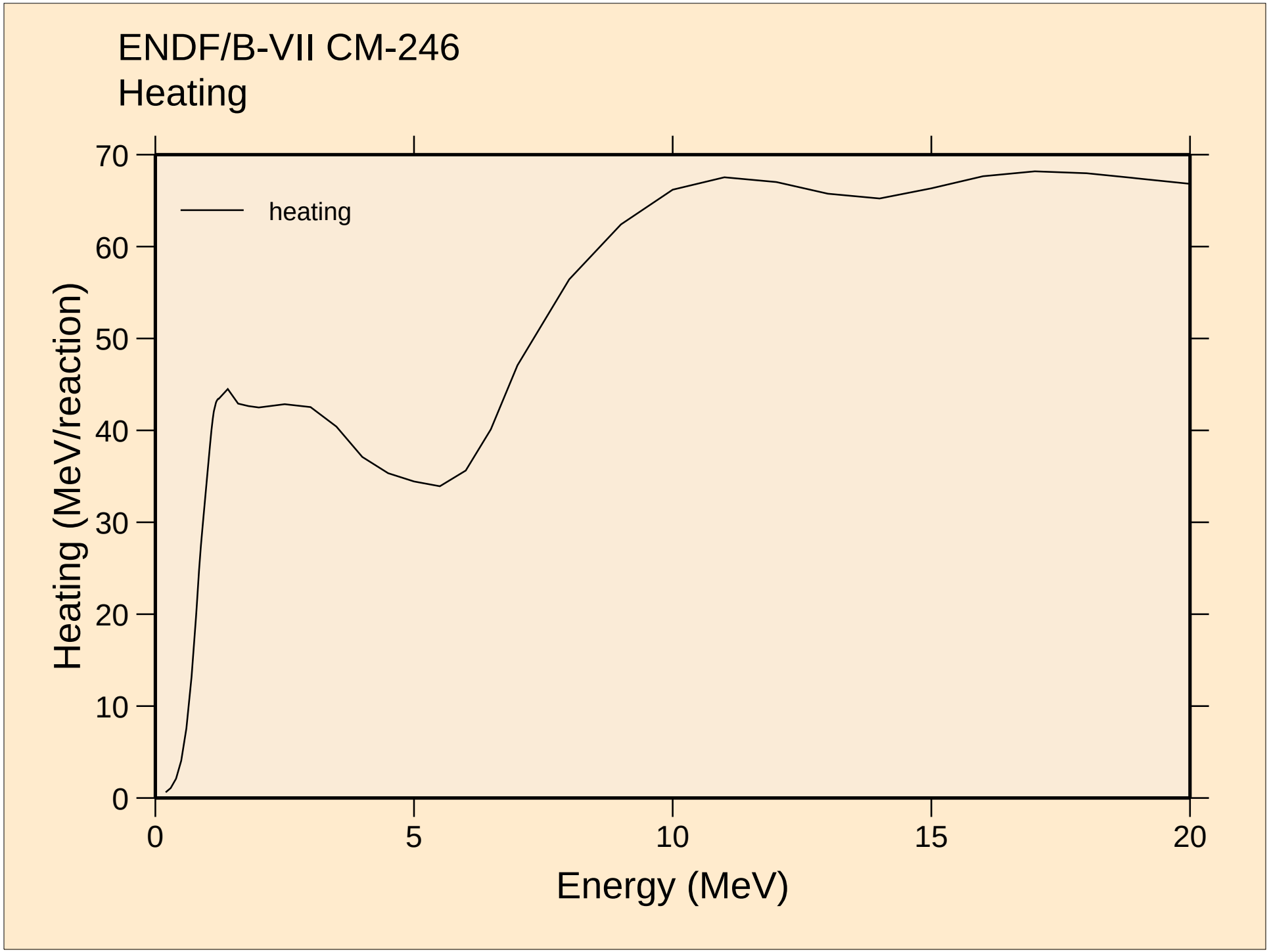

ENDF/B-VII CM-246
UR capture cross section
Inf. Dil.
100 b
Cross section (barns)
10^1
10^0
10^-3
10^-2
Energy (MeV)

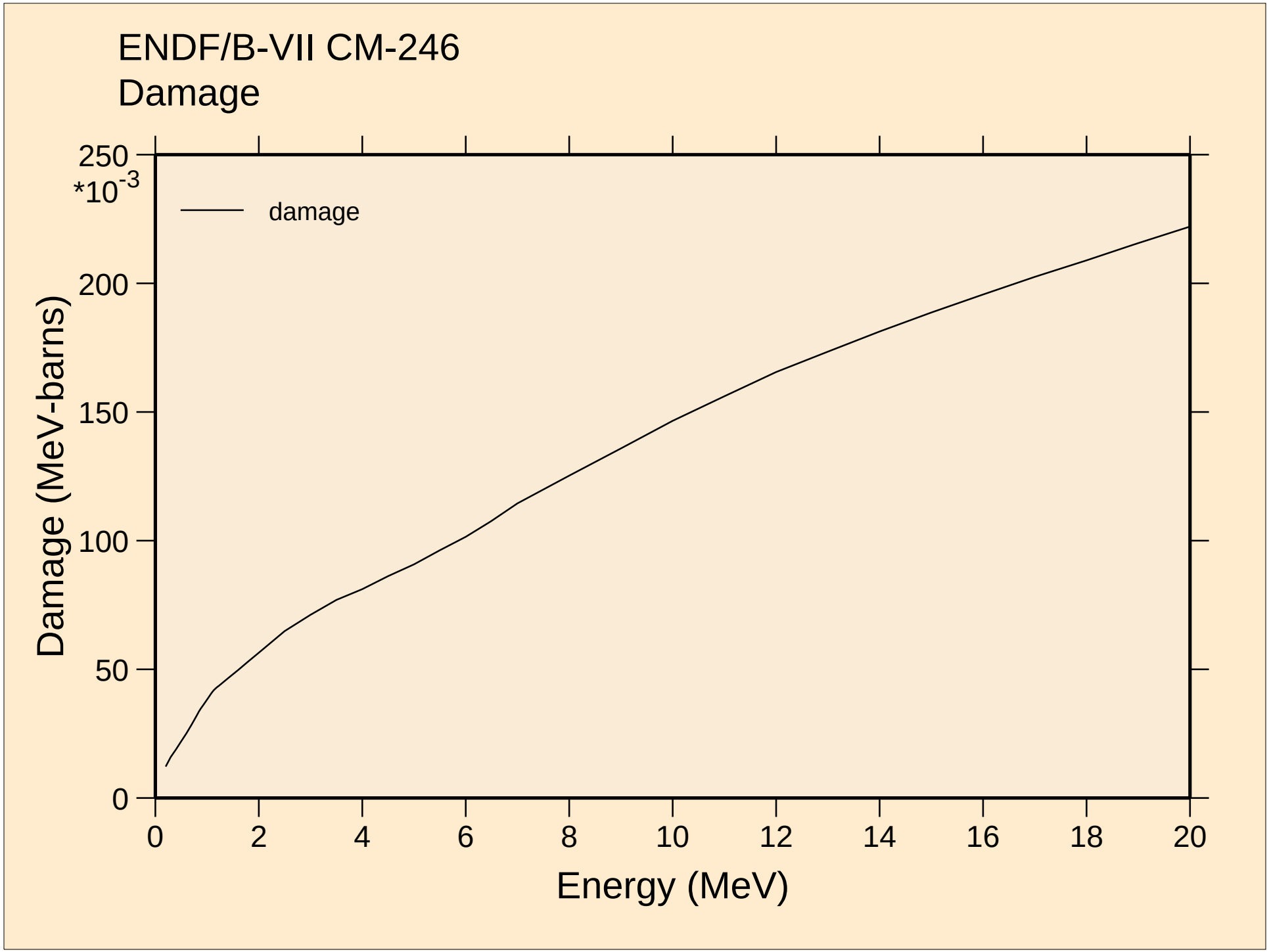

ENDF/B-VII CM-246
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
10^2
10^1
10^0
10^-11
10^-10
10^-9
10^-8
10^-7
10^-6
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1

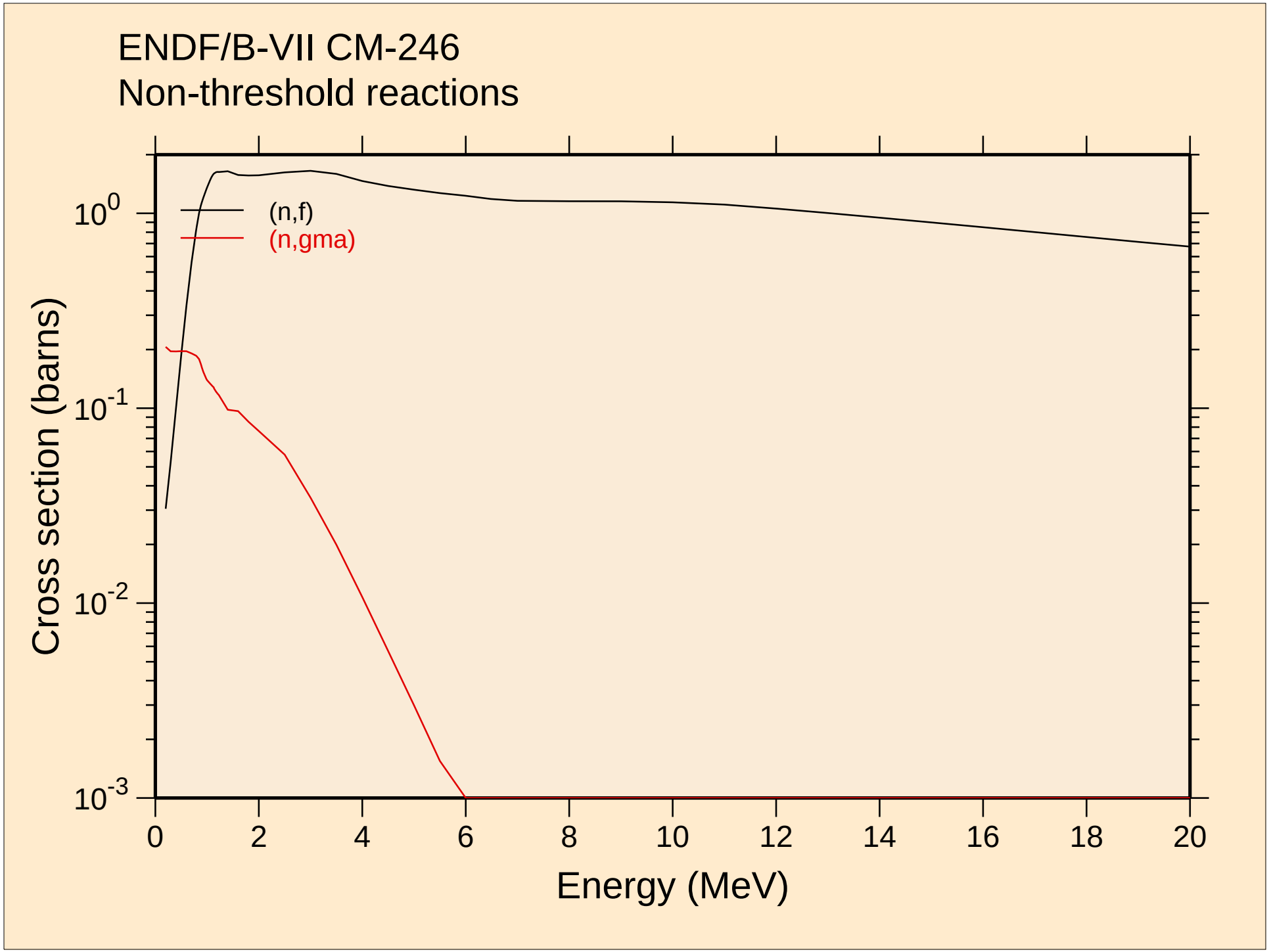

ENDF/B-VII CM-246
Damage
damage
Damage (MeV-barns)
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-11} 10^{-10} 10^{-9} 10^{-8} 10^{-7} 10^{-6} 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1}
Energy (MeV)

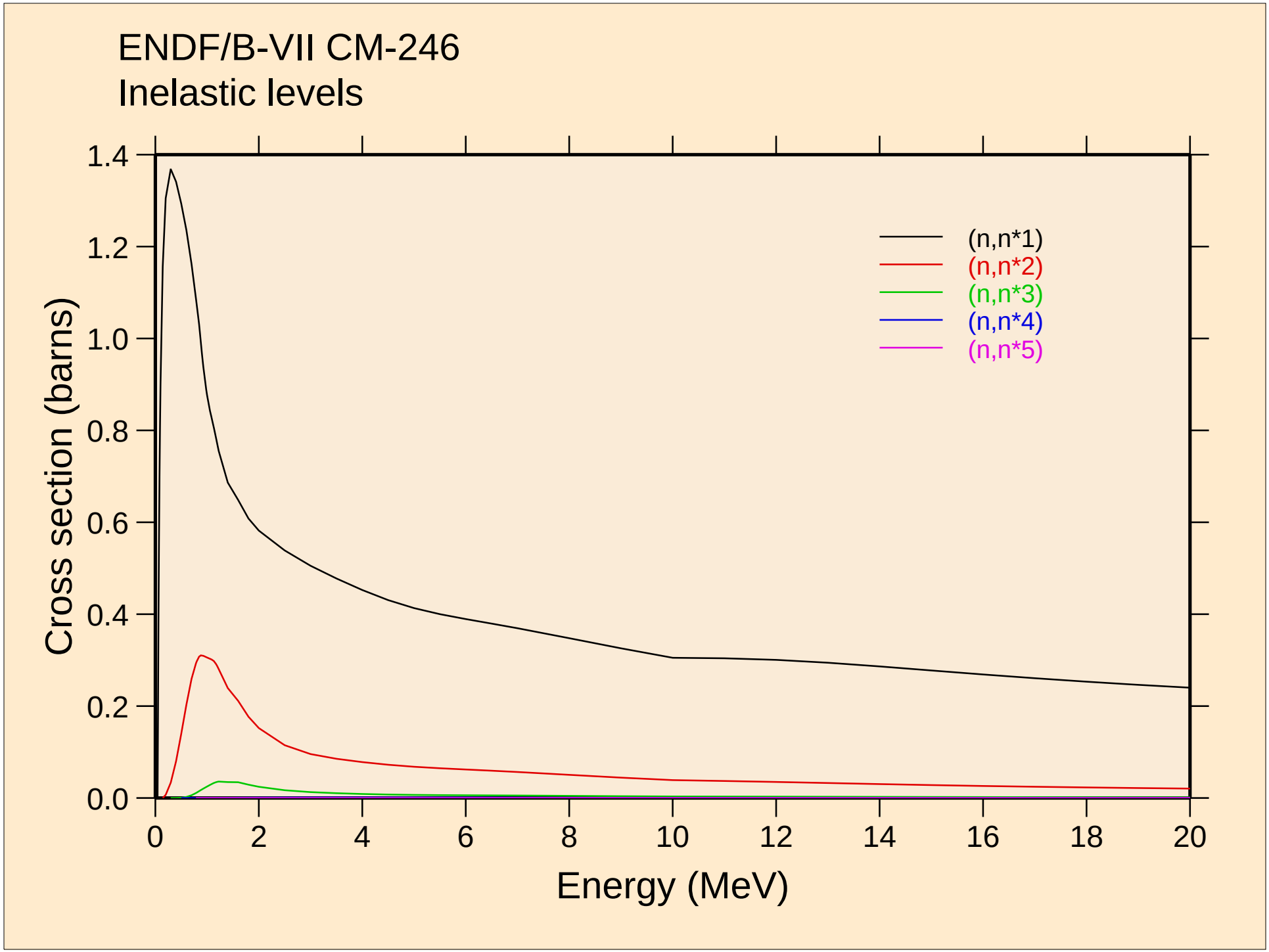

ENDF/B-VII CM-246
Non-threshold reactions
(n,f)
(n,gma)
Cross section (barns)
10^{3}
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-11} 10^{-10} 10^{-9} 10^{-8} 10^{-7} 10^{-6} 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1}
Energy (MeV)

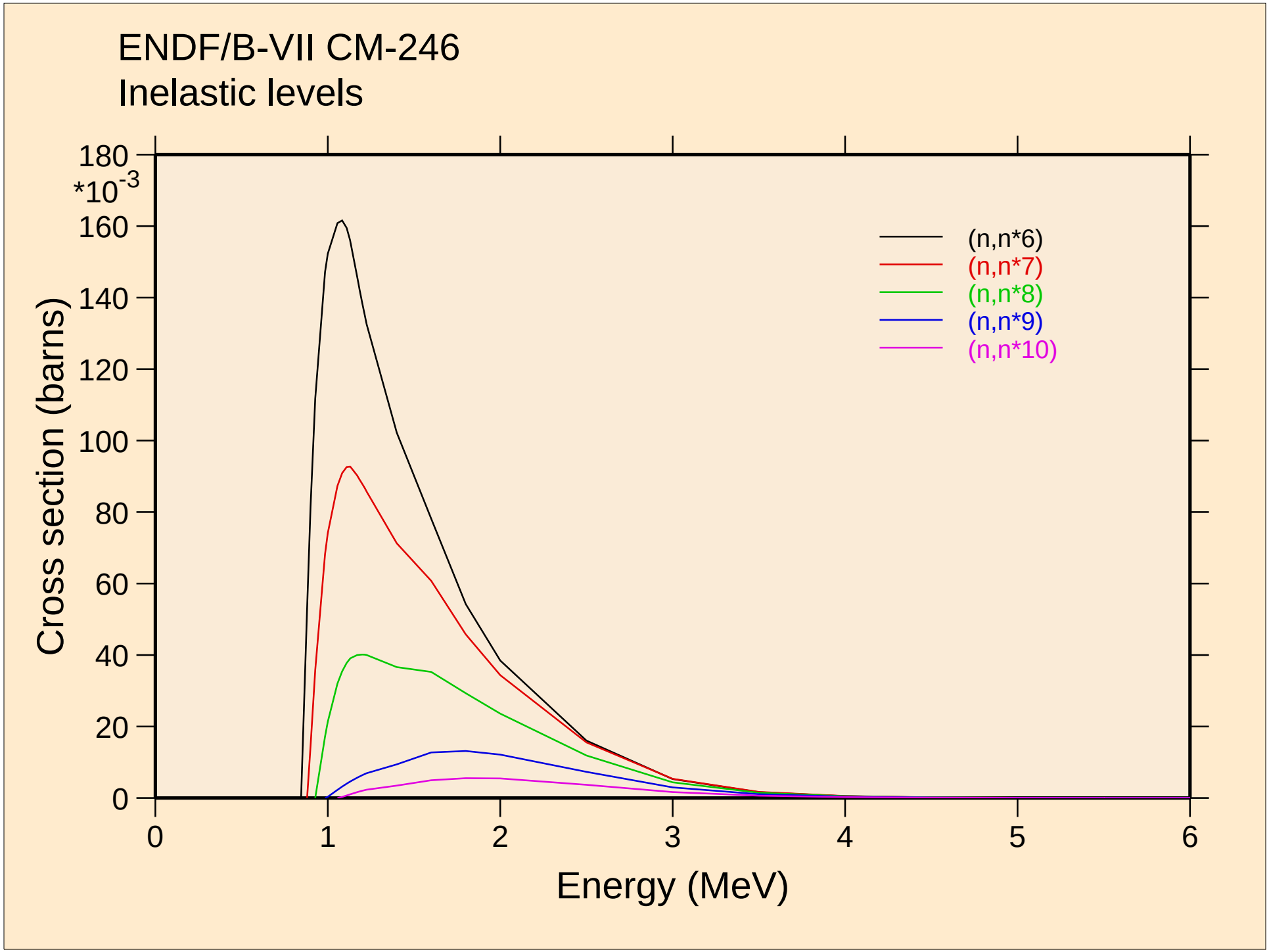

ENDF/B-VII CM-246
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
0
1
2
3
4
5
6
7
8
2
4
6
8
10
12
14
16
18
20

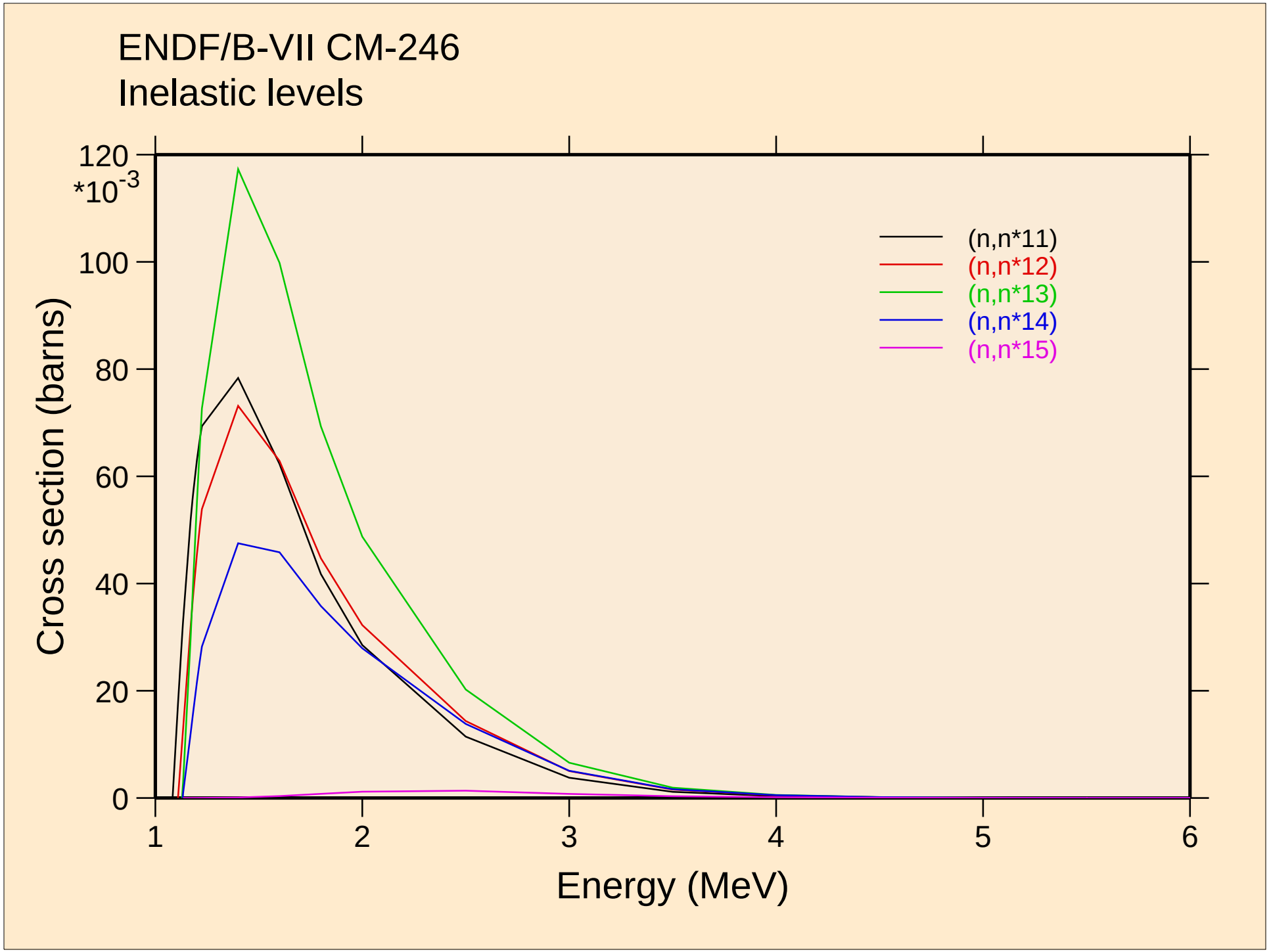

ENDF/B-VII CM-246
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
10
20
30
40
50
60
70
0
5
10
15
20

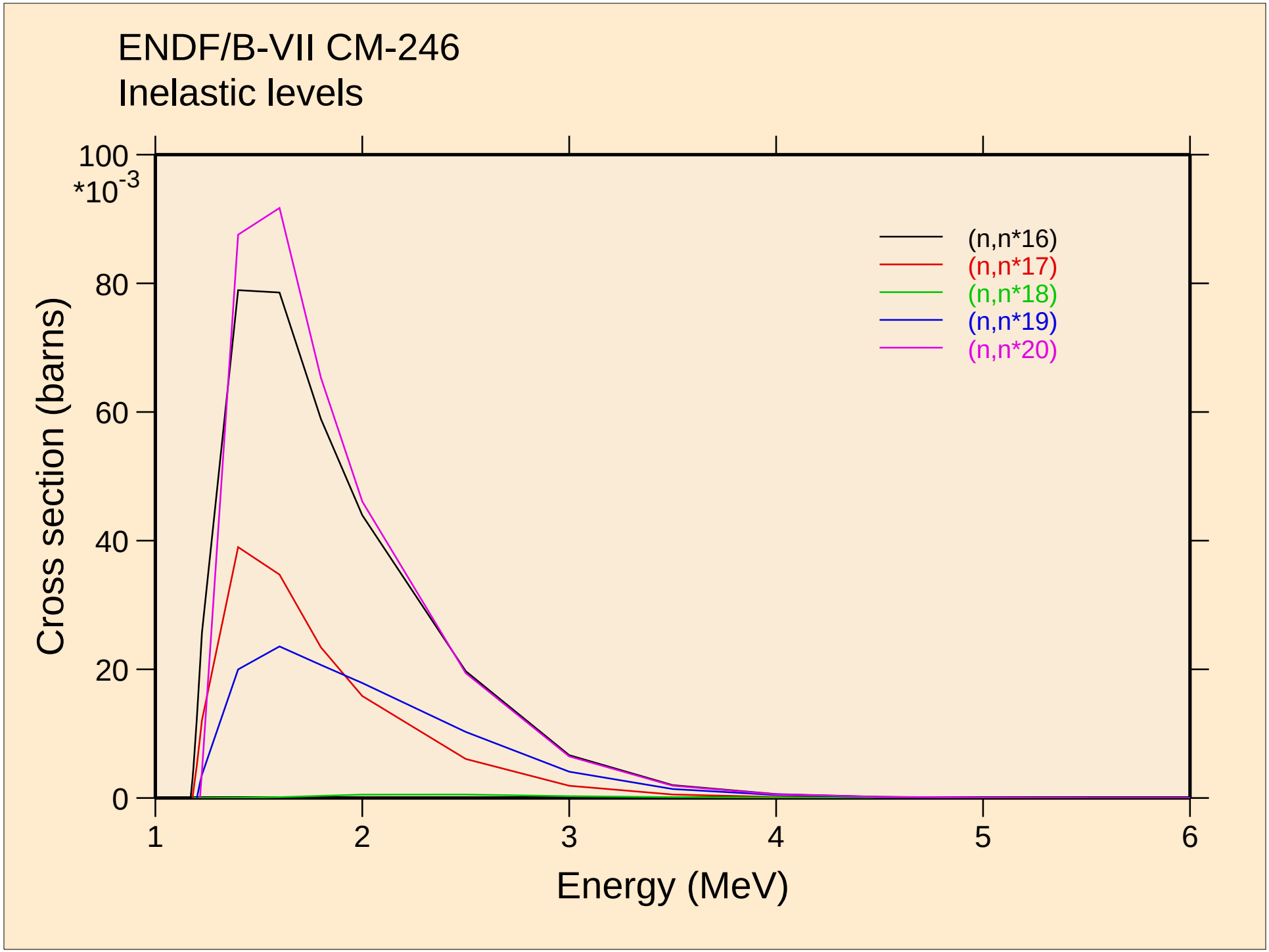

ENDF/B-VII CM-246
Damage
250
*10-3
damage
200
150
100
50
0
Damage (MeV-barns)
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

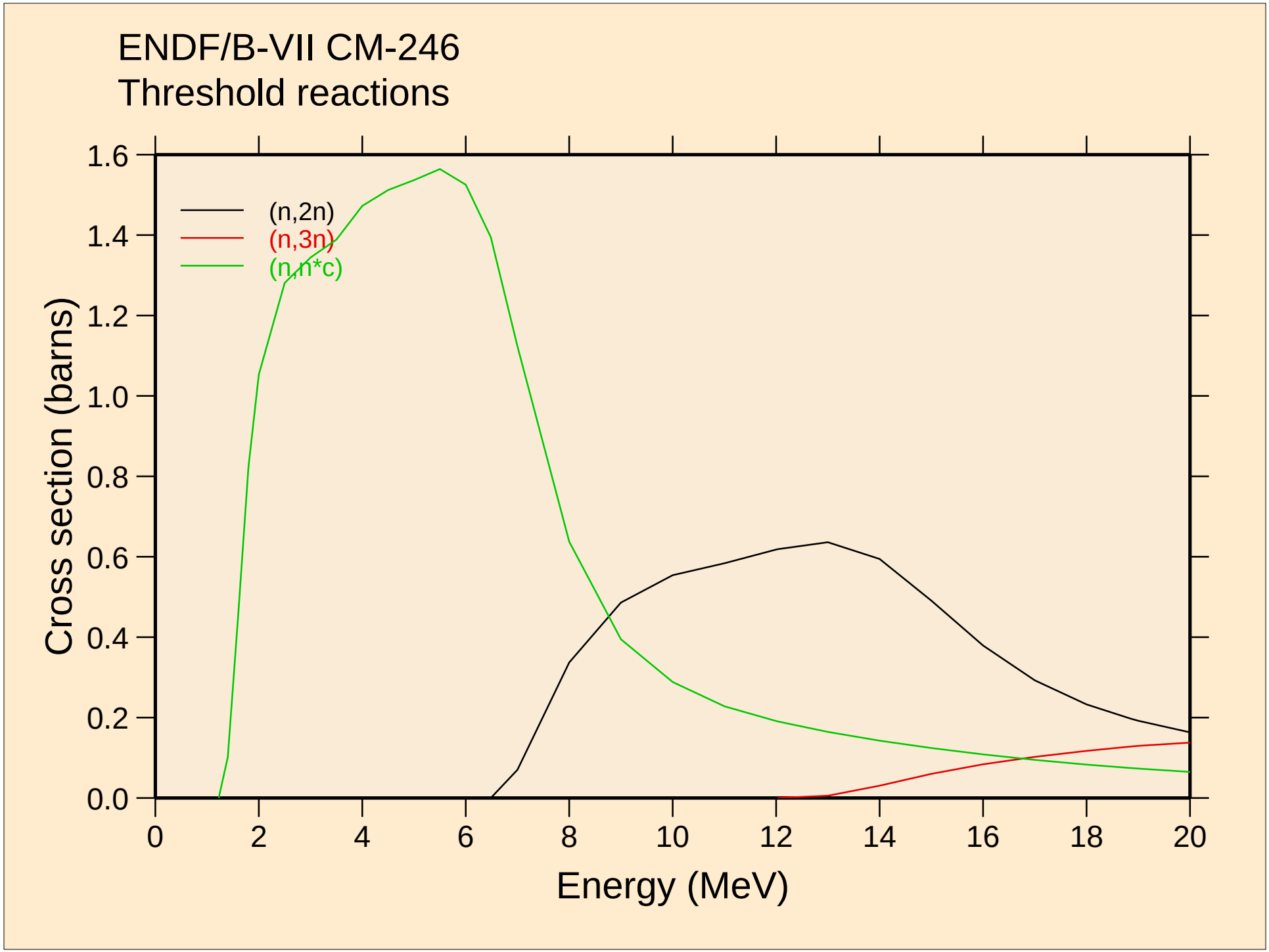

ENDF/B-VII CM-246
Non-threshold reactions
(n,f)
(n,gma)
Cross section (barns)
10^0
10^-1
10^-2
10^-3
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

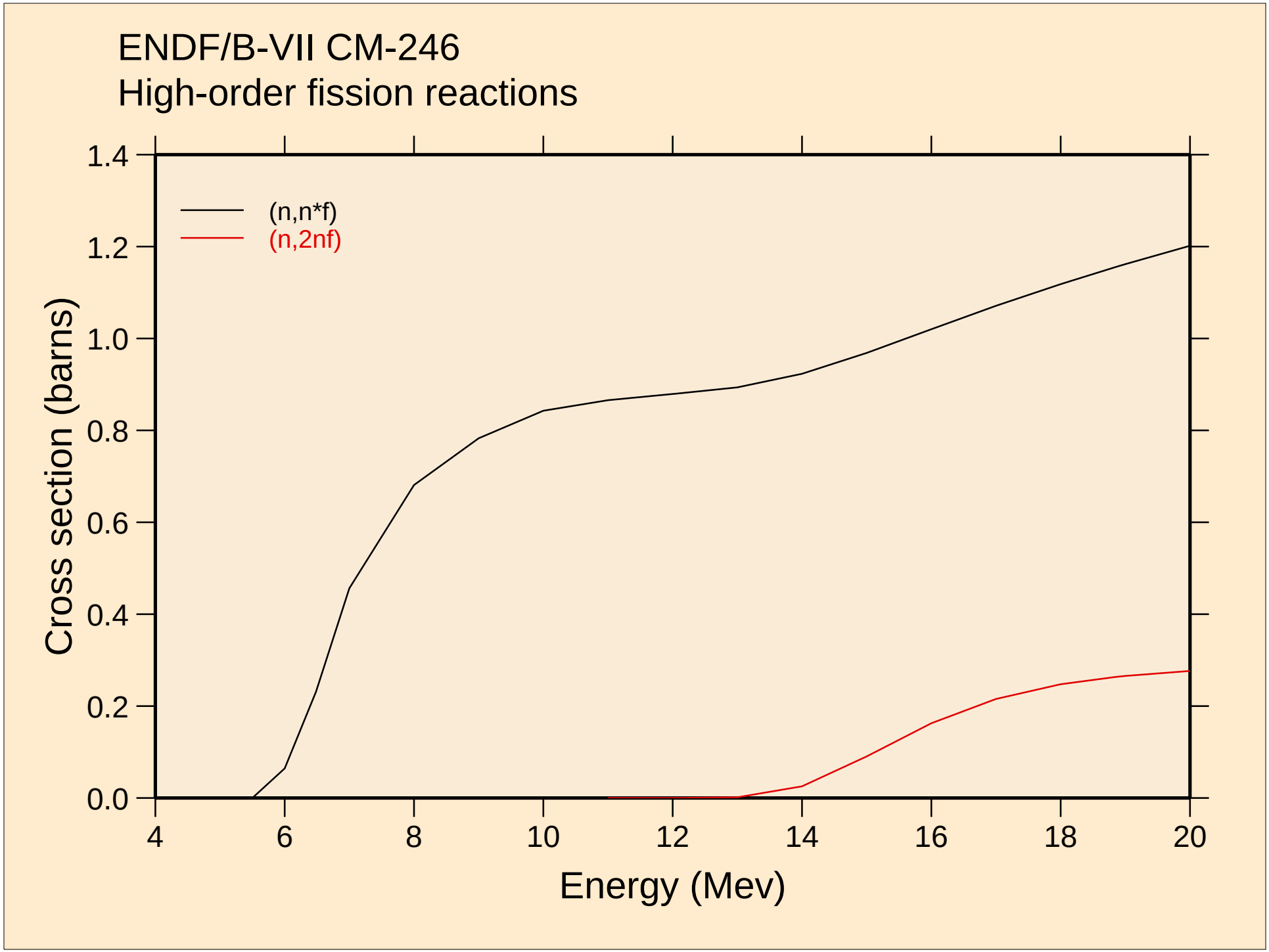

ENDF/B-VII CM-246
Inelastic levels
Cross section (barns)
Energy (MeV)
(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
0
2
4
6
8
10
12
14
16
18
20

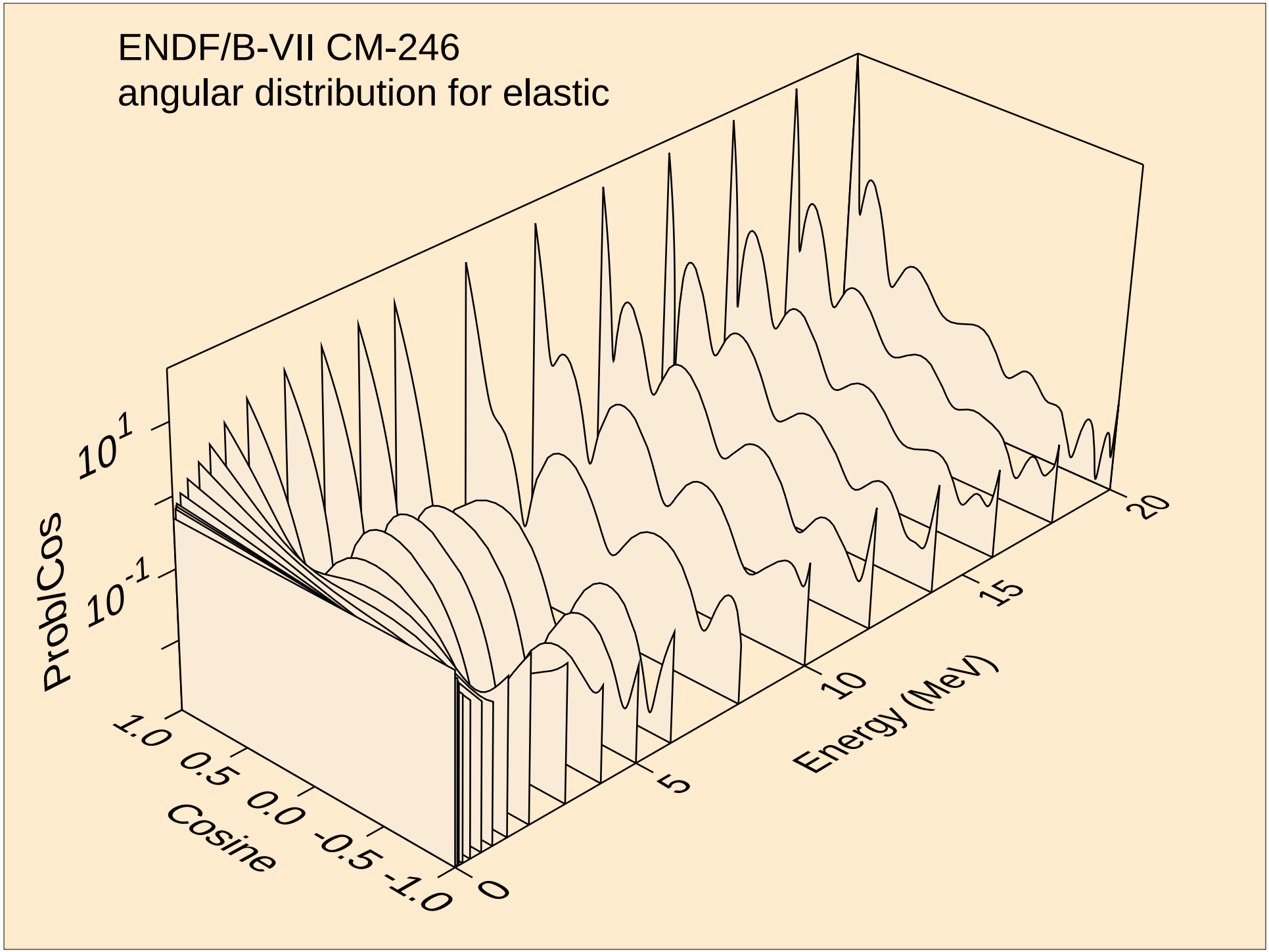

ENDF/B-VII CM-246
Inelastic levels
Cross section (barns)
*10-3
180
160
140
120
100
80
60
40
20
0
0
1
2
3
4
5
6
Energy (MeV)
(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)
(n,n*10)

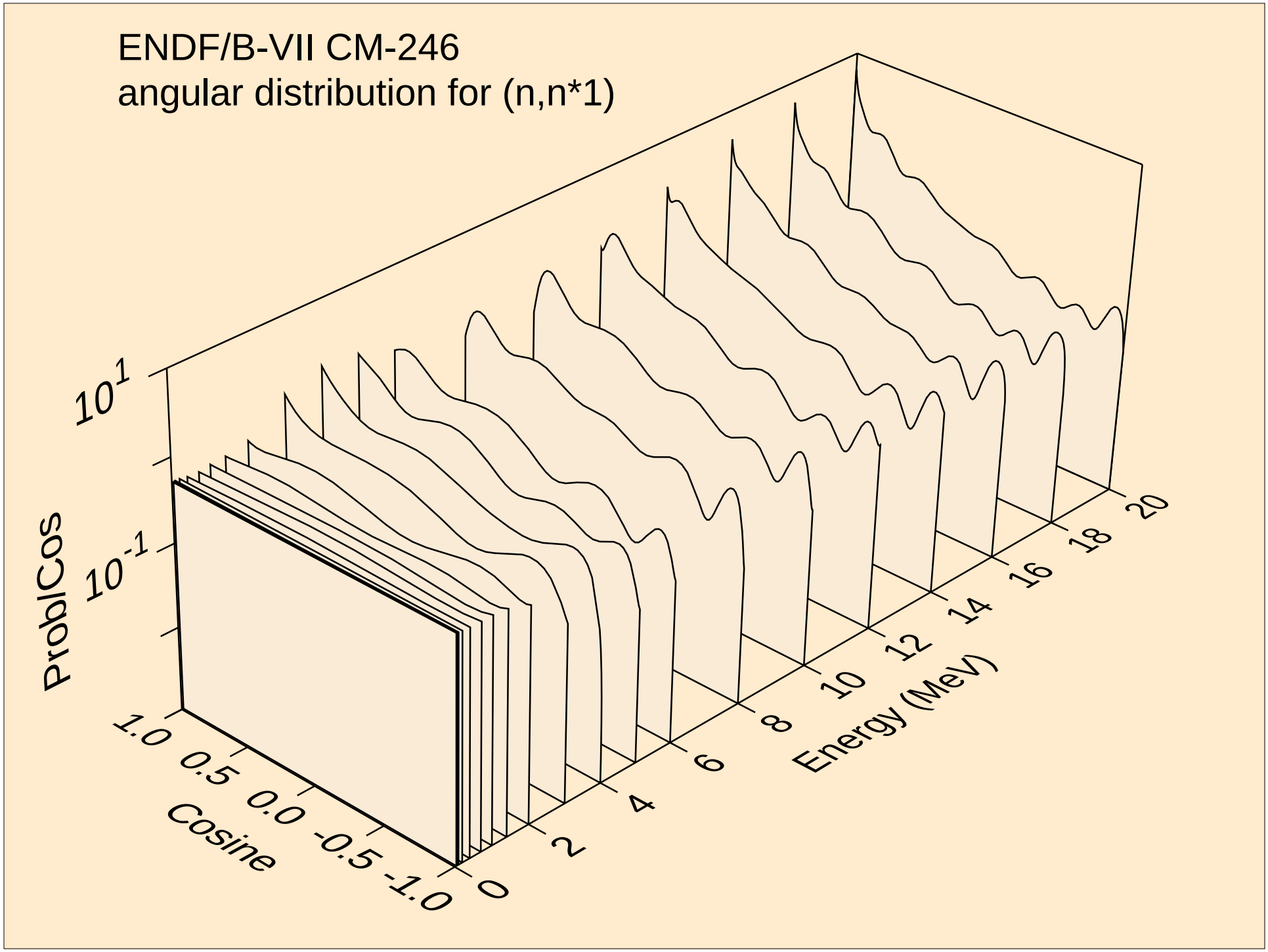

ENDF/B-VII CM-246
Inelastic levels
120
*10-3
100
80
60
40
20
0
Cross section (barns)
1
2
3
4
5
6
Energy (MeV)
(n,n*11)
(n,n*12)
(n,n*13)
(n,n*14)
(n,n*15)

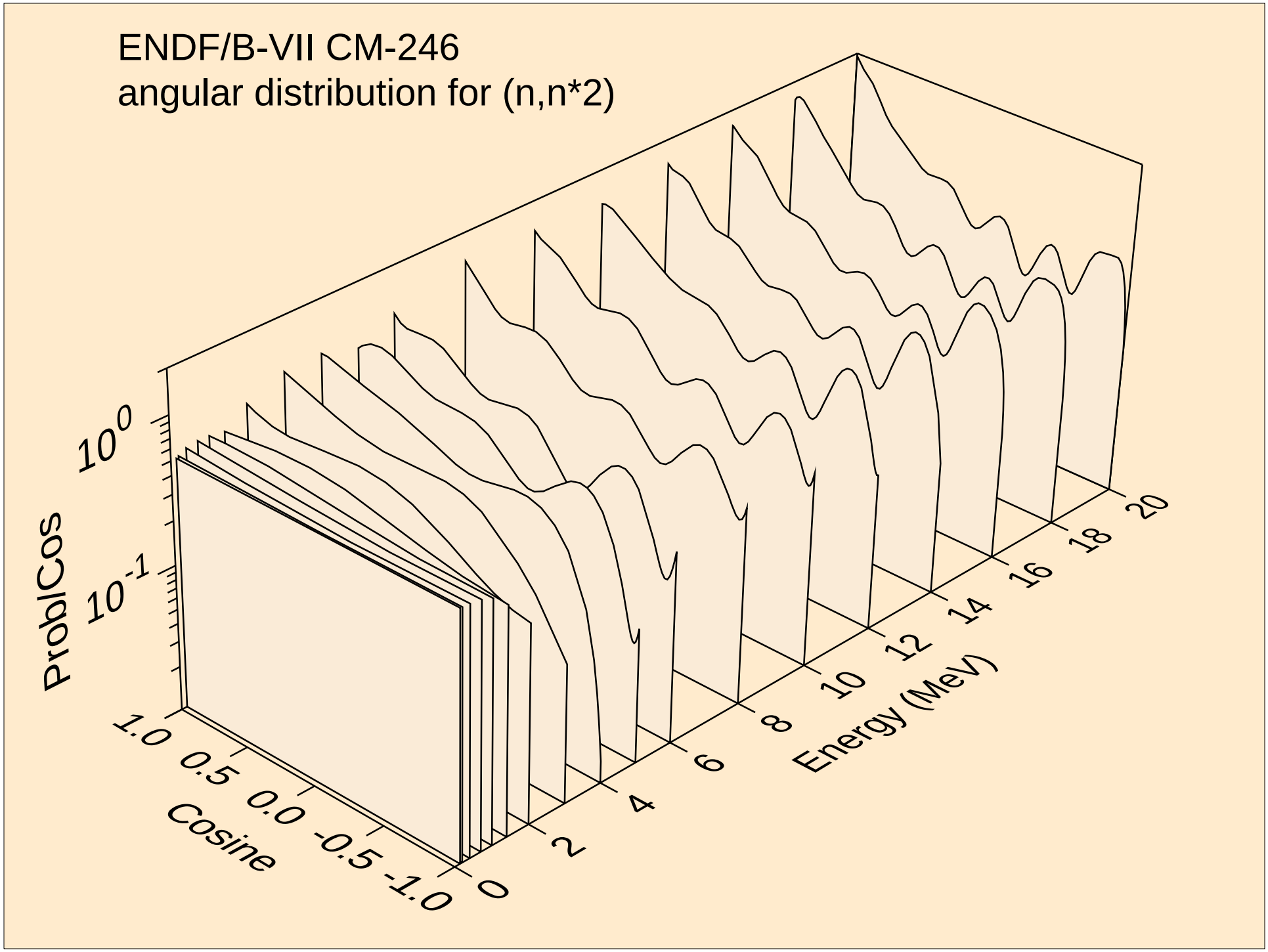

ENDF/B-VII CM-246
Inelastic levels
100
*10-3
80
60
40
20
0
Cross section (barns)
1
2
3
4
5
6
Energy (MeV)
(n,n*16)
(n,n*17)
(n,n*18)
(n,n*19)
(n,n*20)

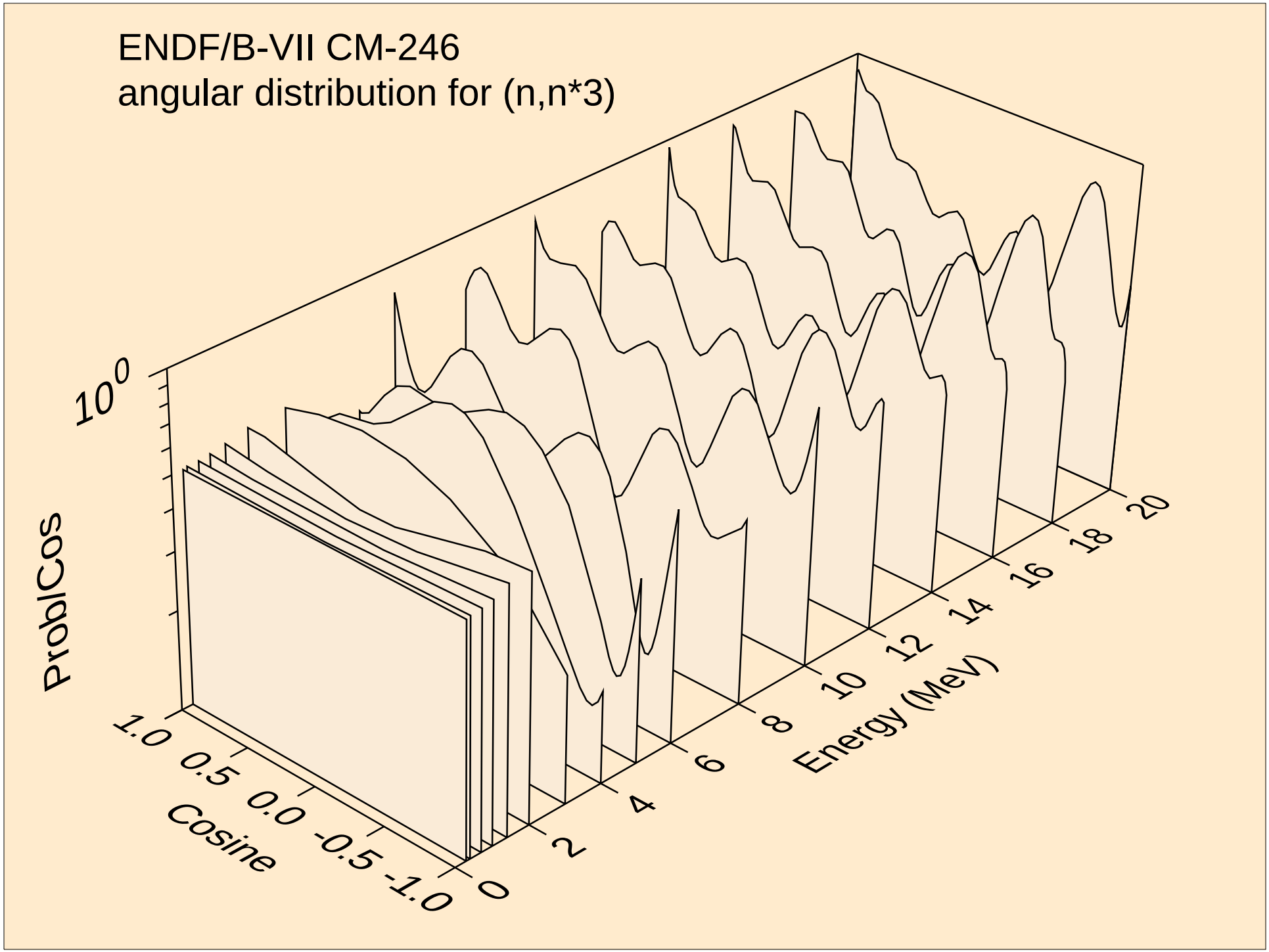

ENDF/B-VII CM-246
Threshold reactions
(n,2n)
(n,3n)
(n,n*c)
Cross section (barns)
Energy (MeV)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0
2
4
6
8
10
12
14
16
18
20

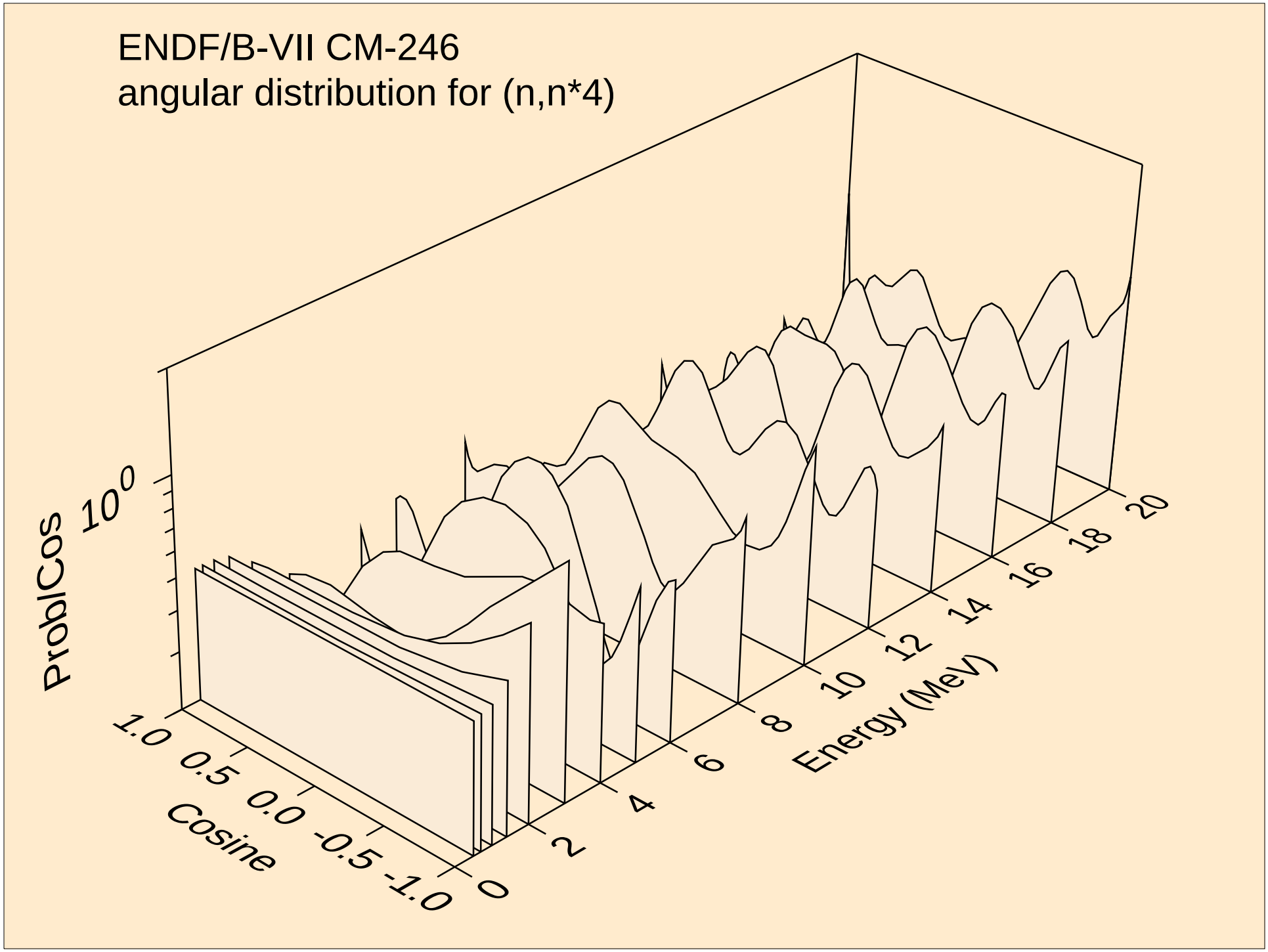

ENDF/B-VII CM-246
High-order fission reactions
(n,n*f)
(n,2nf)
Cross section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
4
6
8
10
12
14
16
18
20
Energy (Mev)

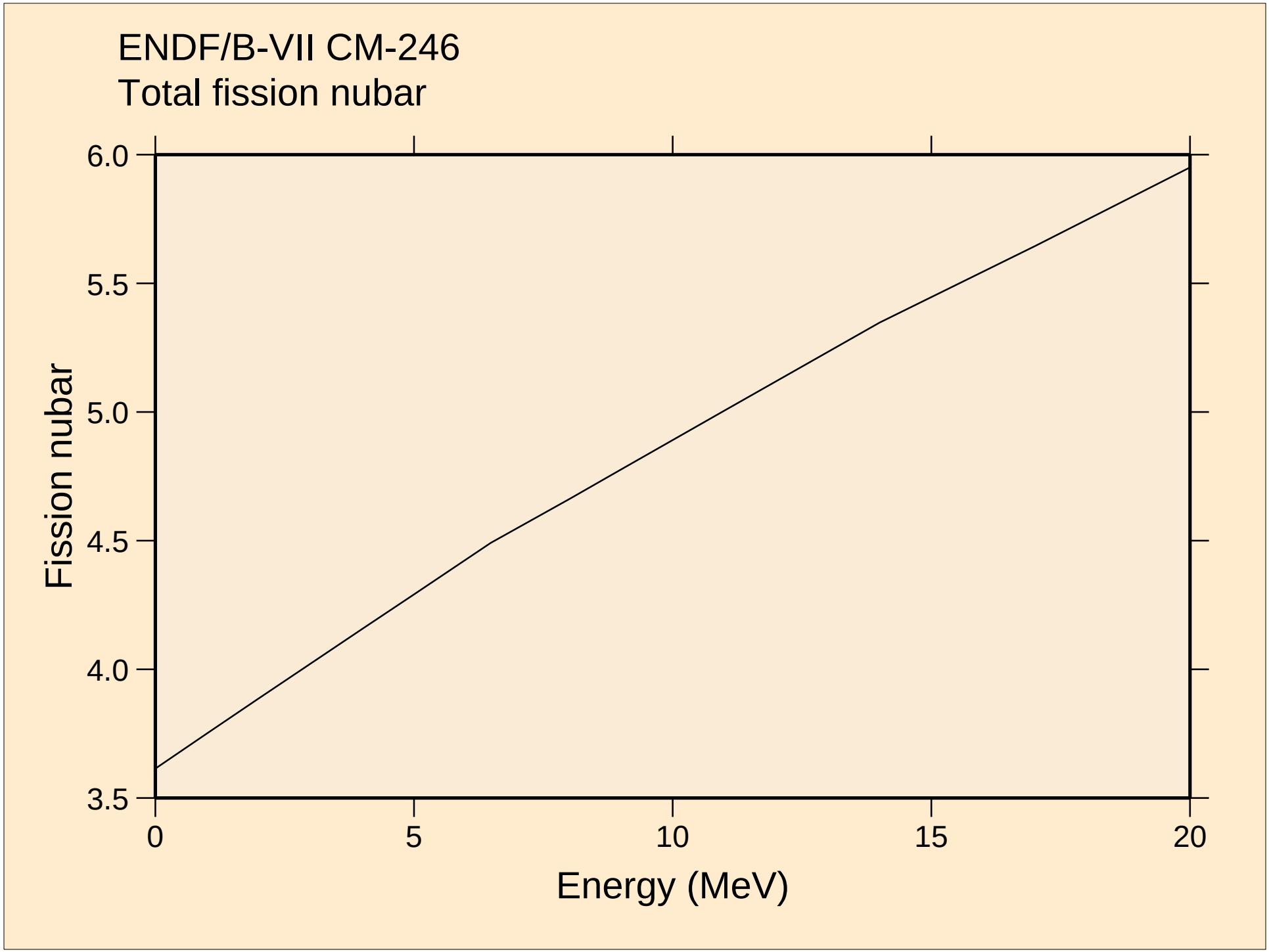

ENDF/B-VII CM-246
angular distribution for elastic
ProbCos
10^{1}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

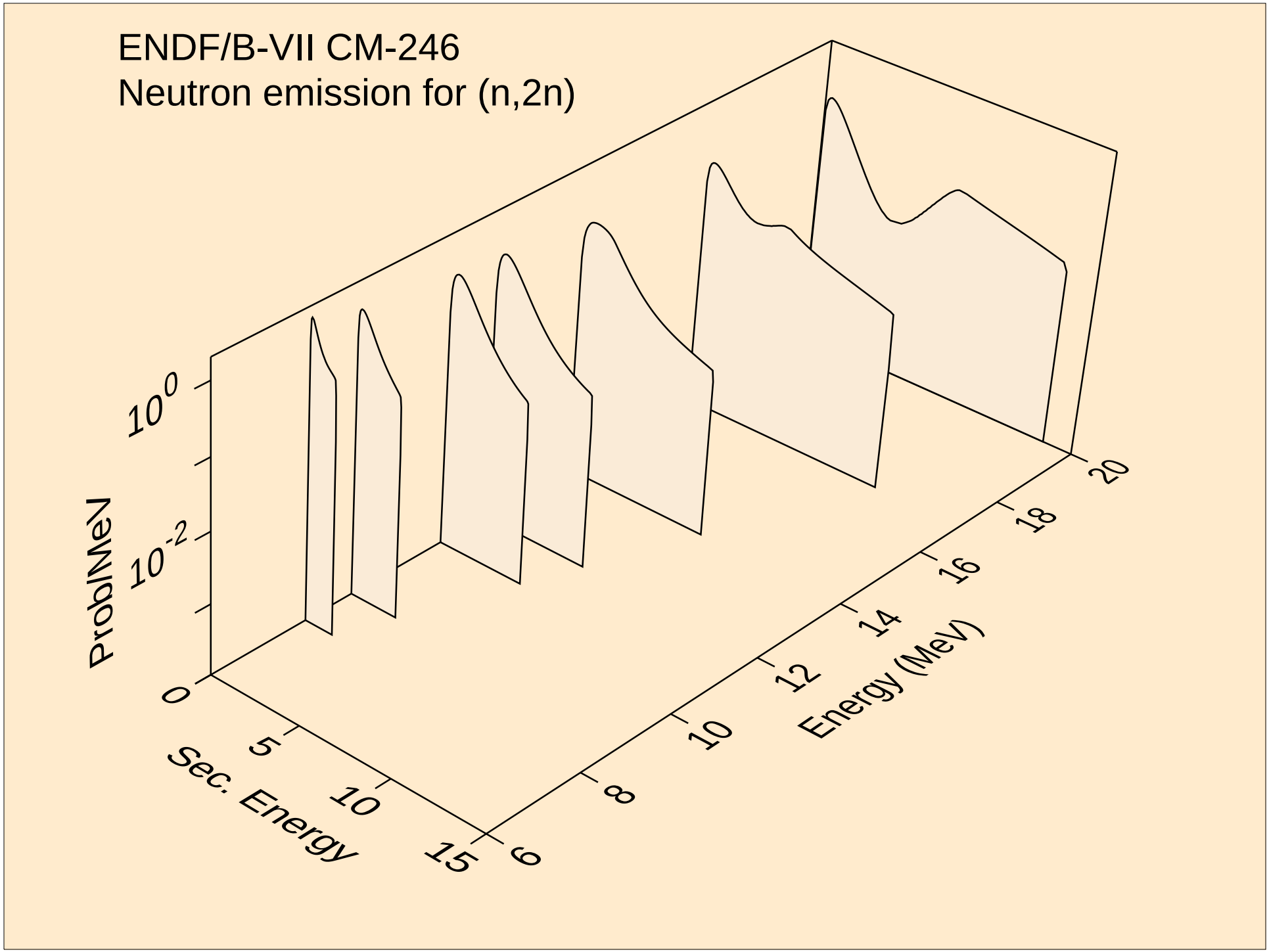

ENDF/B-VII CM-246
angular distribution for (n,n*1)
ProbICos
10^{1}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

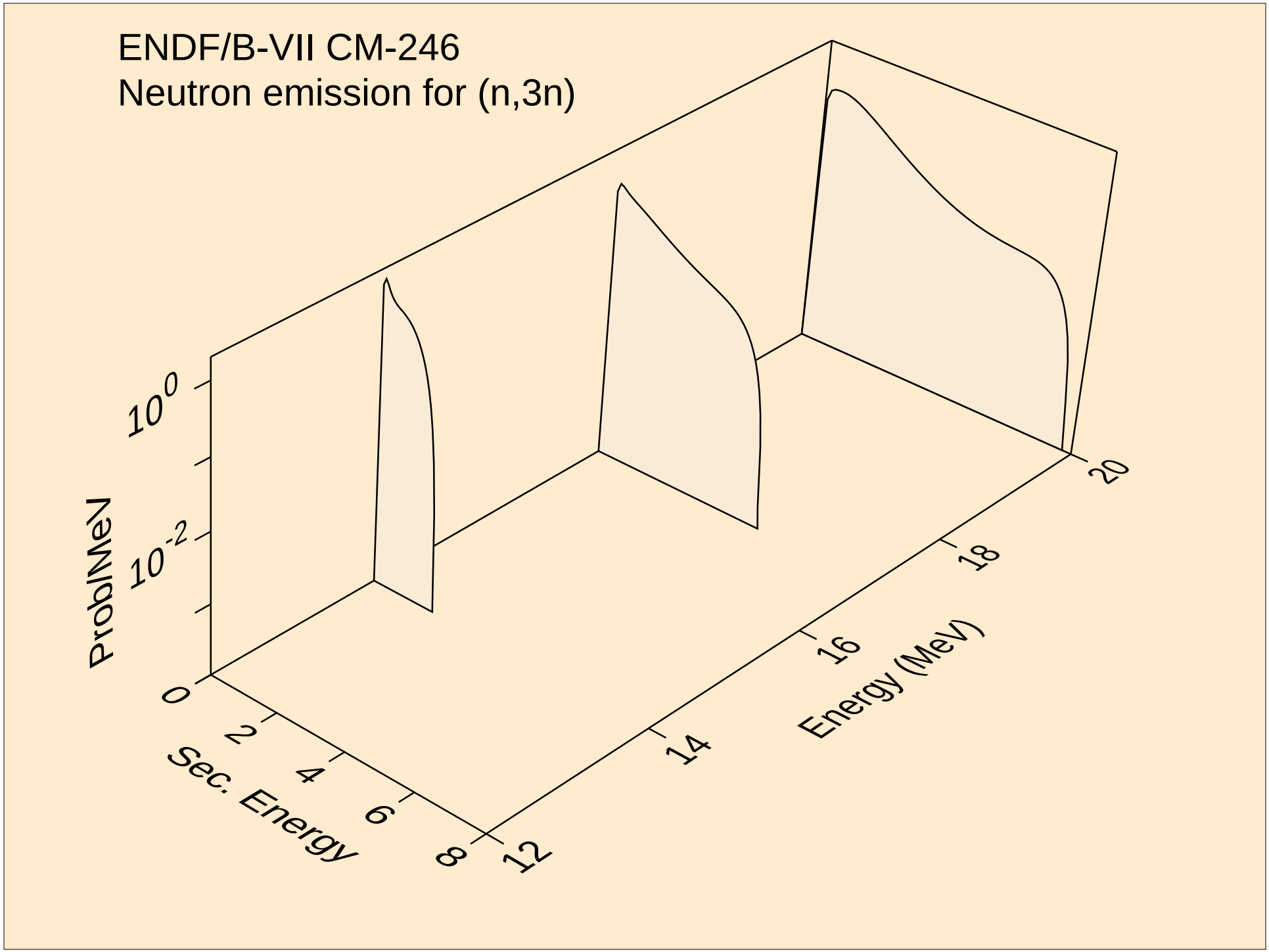

ENDF/B-VII CM-246
angular distribution for (n,n*2)
Prob\Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

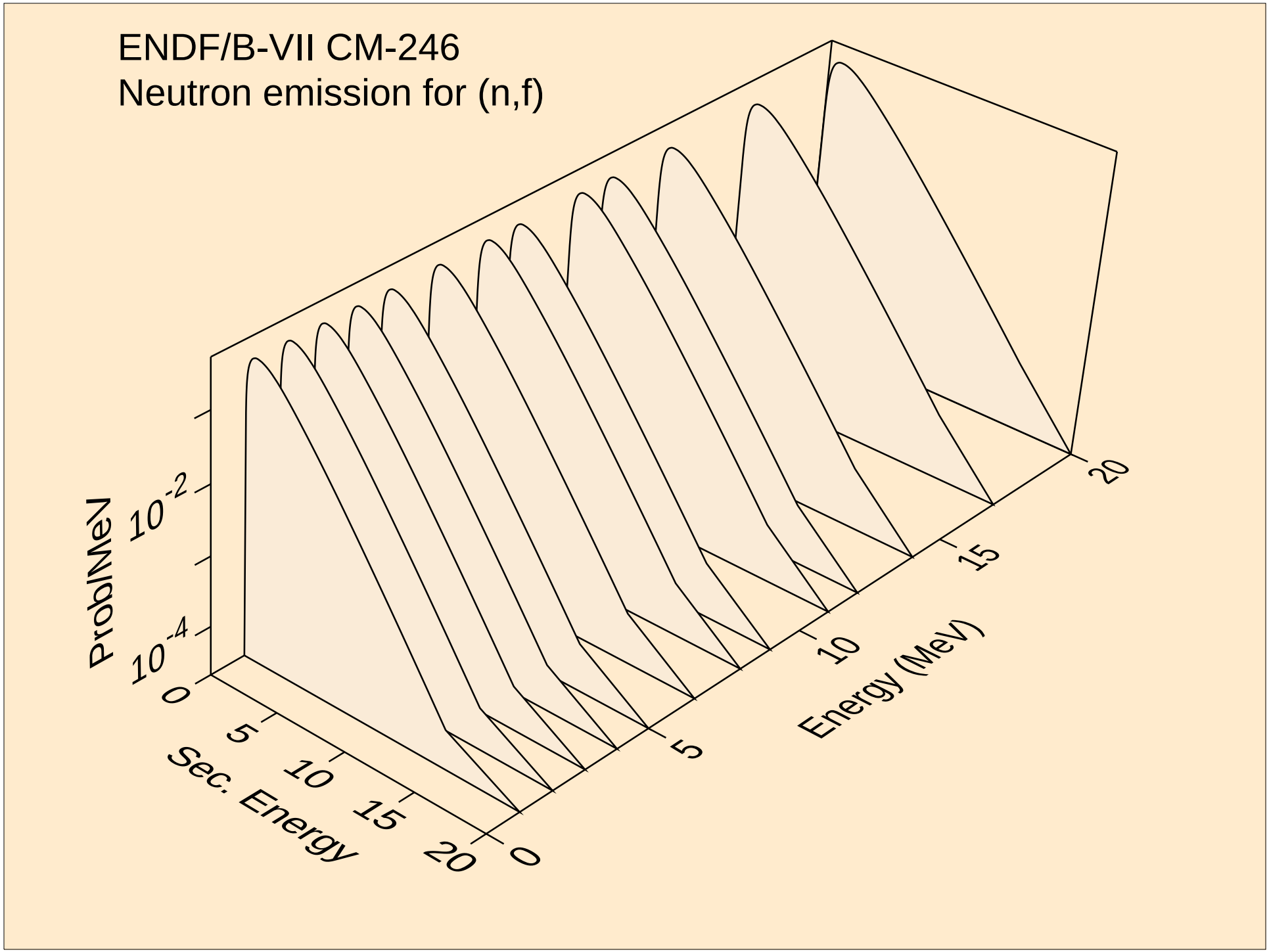

ENDF/B-VII CM-246
angular distribution for (n,n*3)
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

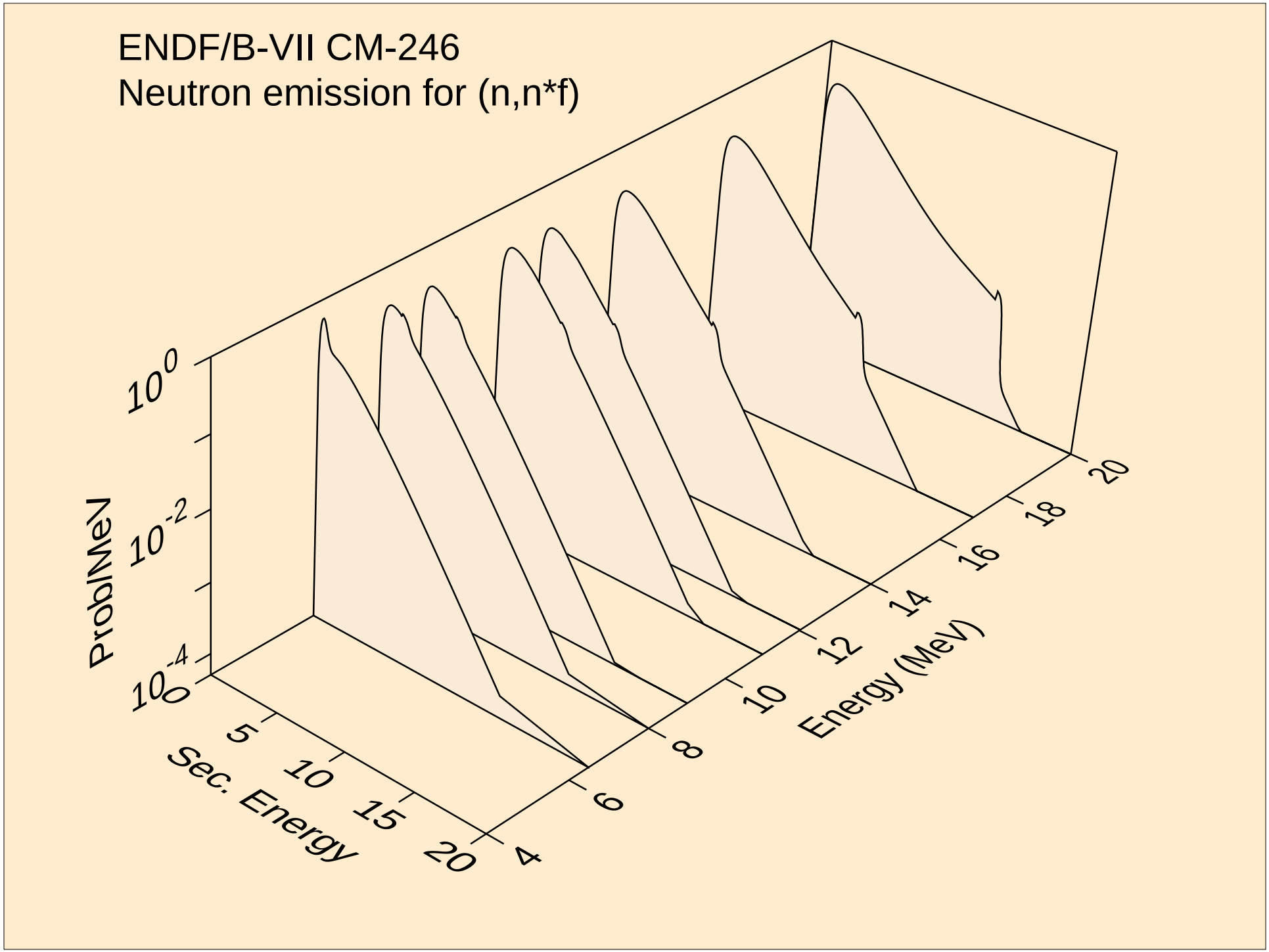

ENDF/B-VII CM-246
angular distribution for (n,n*4)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

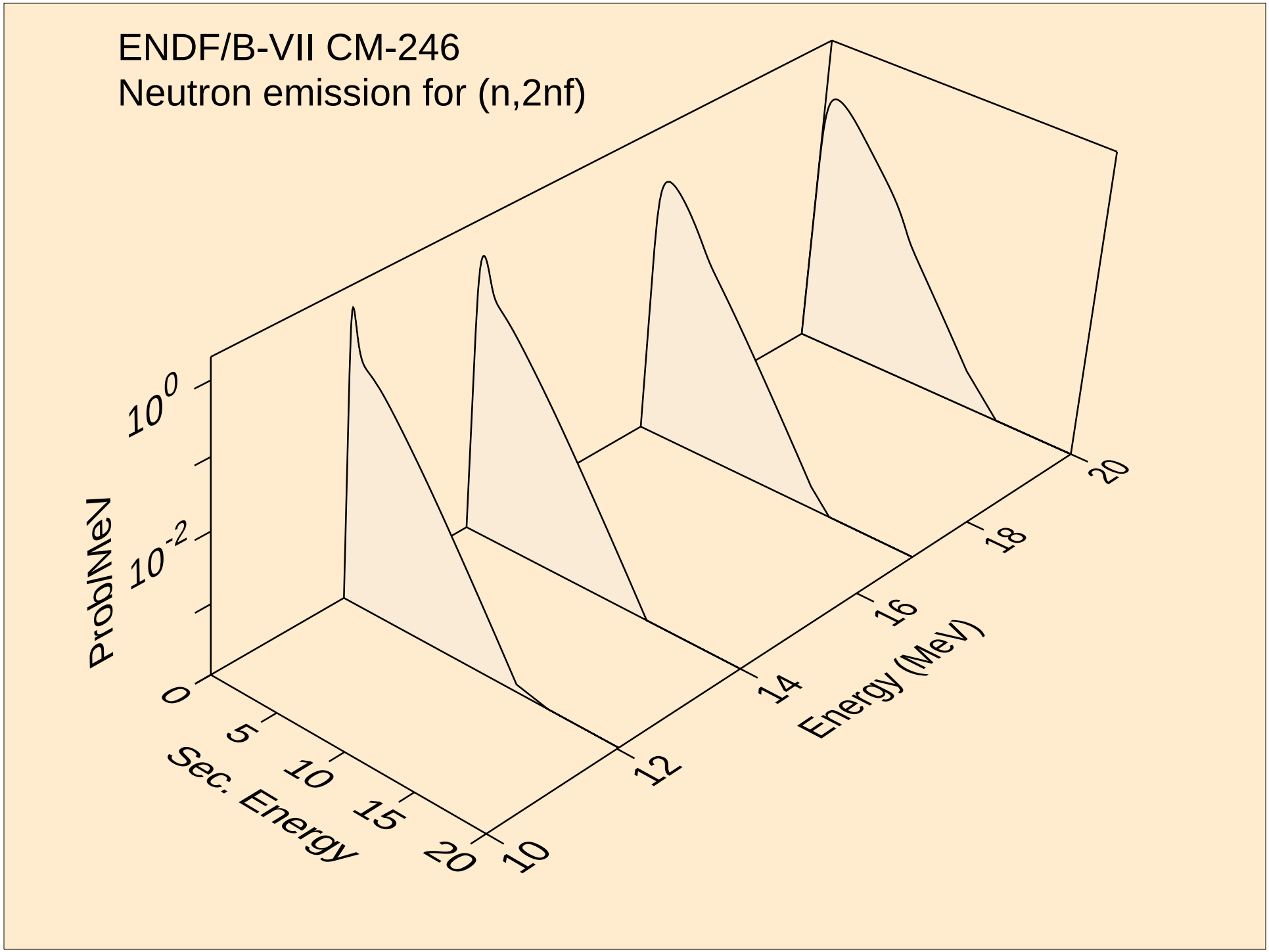

ENDF/B-VII CM-246
Total fission nubar
Fission nubar
6.0
5.5
5.0
4.5
4.0
3.5
0
5
10
15
20
Energy (MeV)

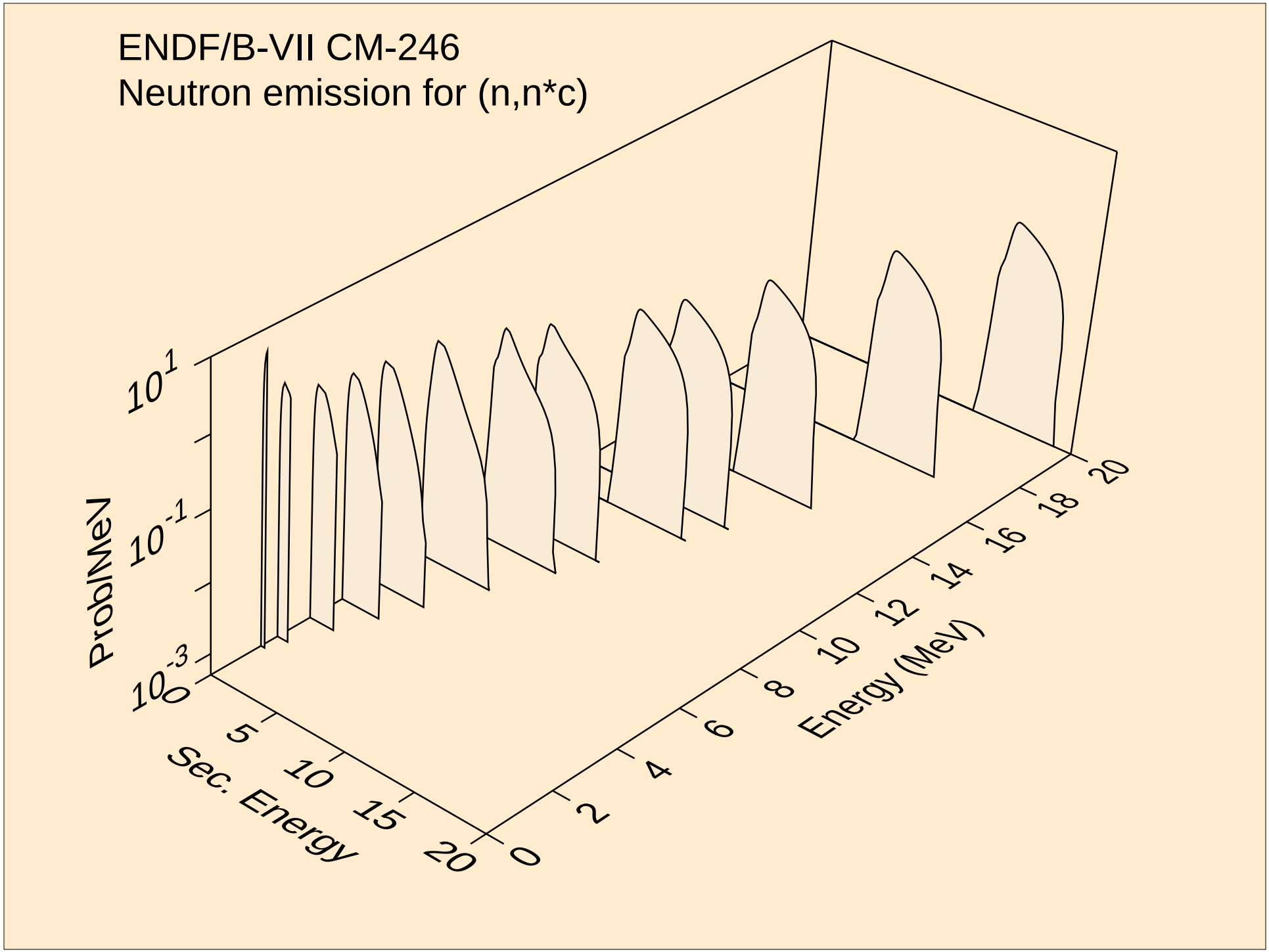

ENDF/B-VII CM-246
Neutron emission for (n,2n)
Prob/MeV
10^{0}
10^{-2}
0
5
10
15
Sec. Energy
6
8
10
12
14
16
18
20
Energy (MeV)


ENDF/B-VII CM-246
Neutron emission for (n,3n)
Prob/MeV
10^{0}
10^{-2}
0
2
4
6
8
Sec. Energy
12
14
16
18
20
Energy (MeV)


ENDF/B-VII CM-246
Neutron emission for (n,f)
Prob/MeV
10-2
10-4
0
5
10
15
20
Sec. Energy
0
5
10
15
20
Energy (MeV)


ENDF/B-VII CM-246
Neutron emission for (n,n*f)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
5
10
15
20
Sec. Energy
4
6
8
10
12
14
16
18
20
Energy (MeV)


ENDF/B-VII CM-246
Neutron emission for (n,2nf)
Prob/MeV
10^{0}
10^{-2}
0
5
10
15
20
Sec. Energy
10
12
14
16
18
20
Energy (MeV)


ENDF/B-VII CM-246
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)