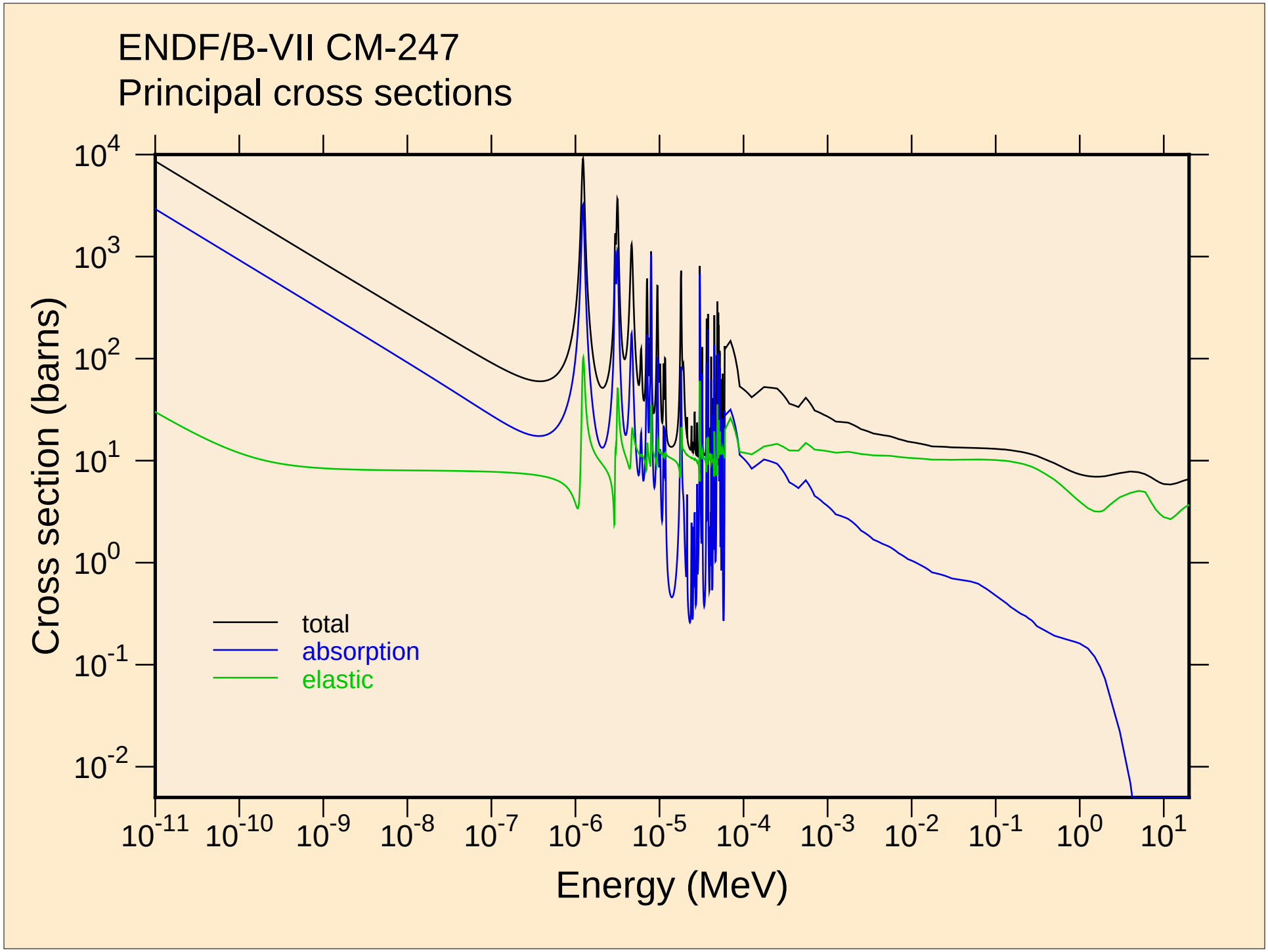
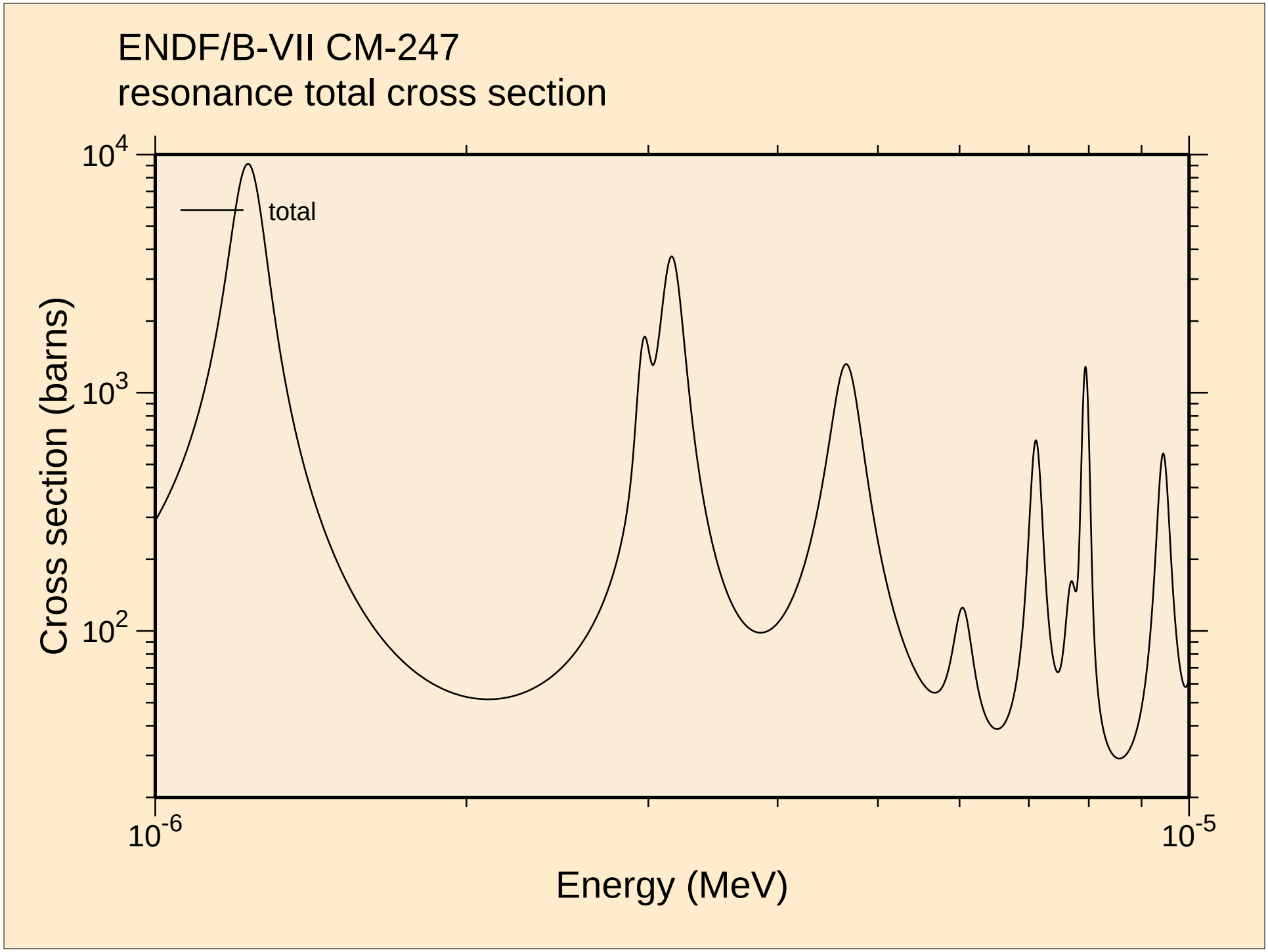
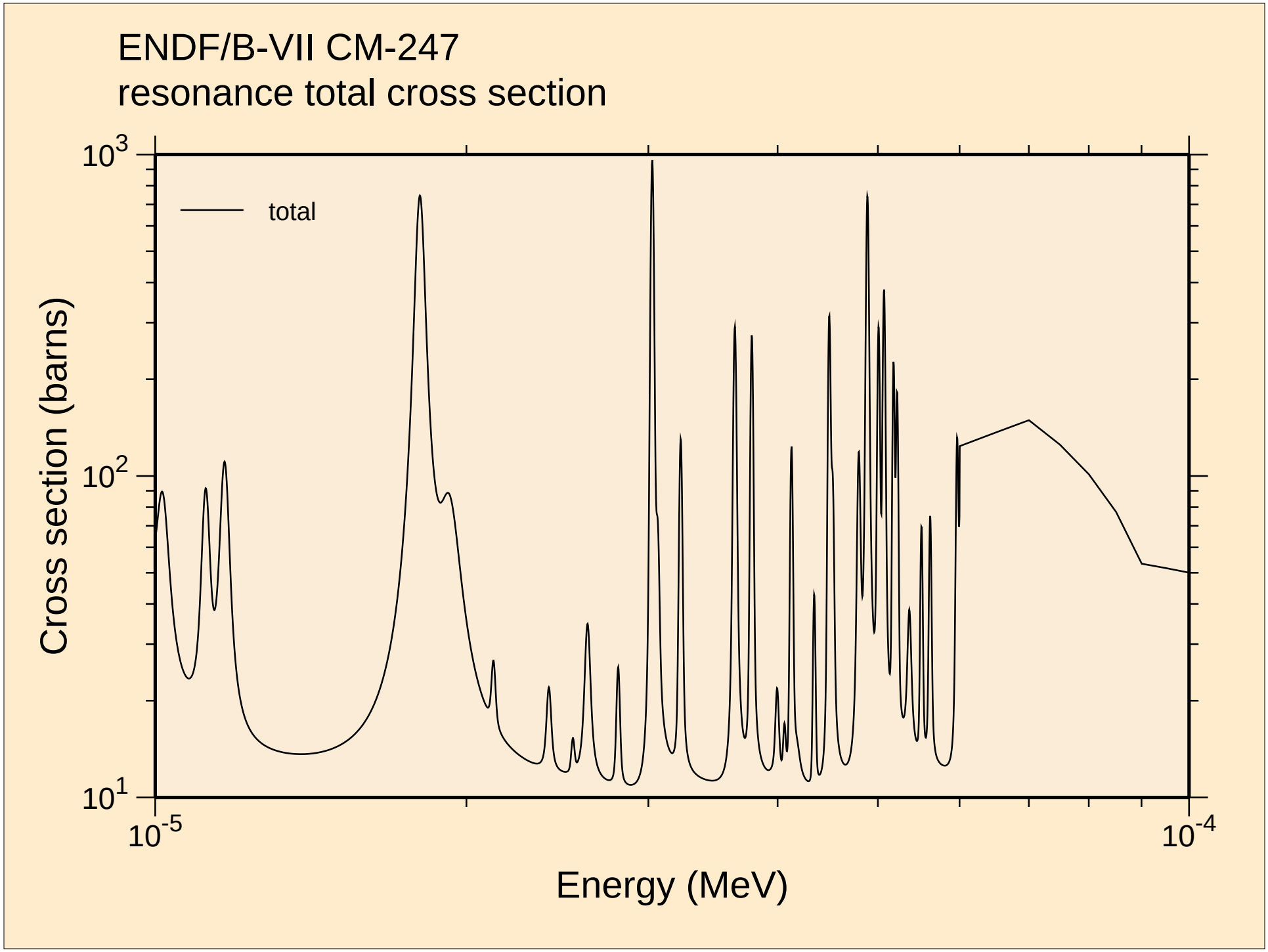
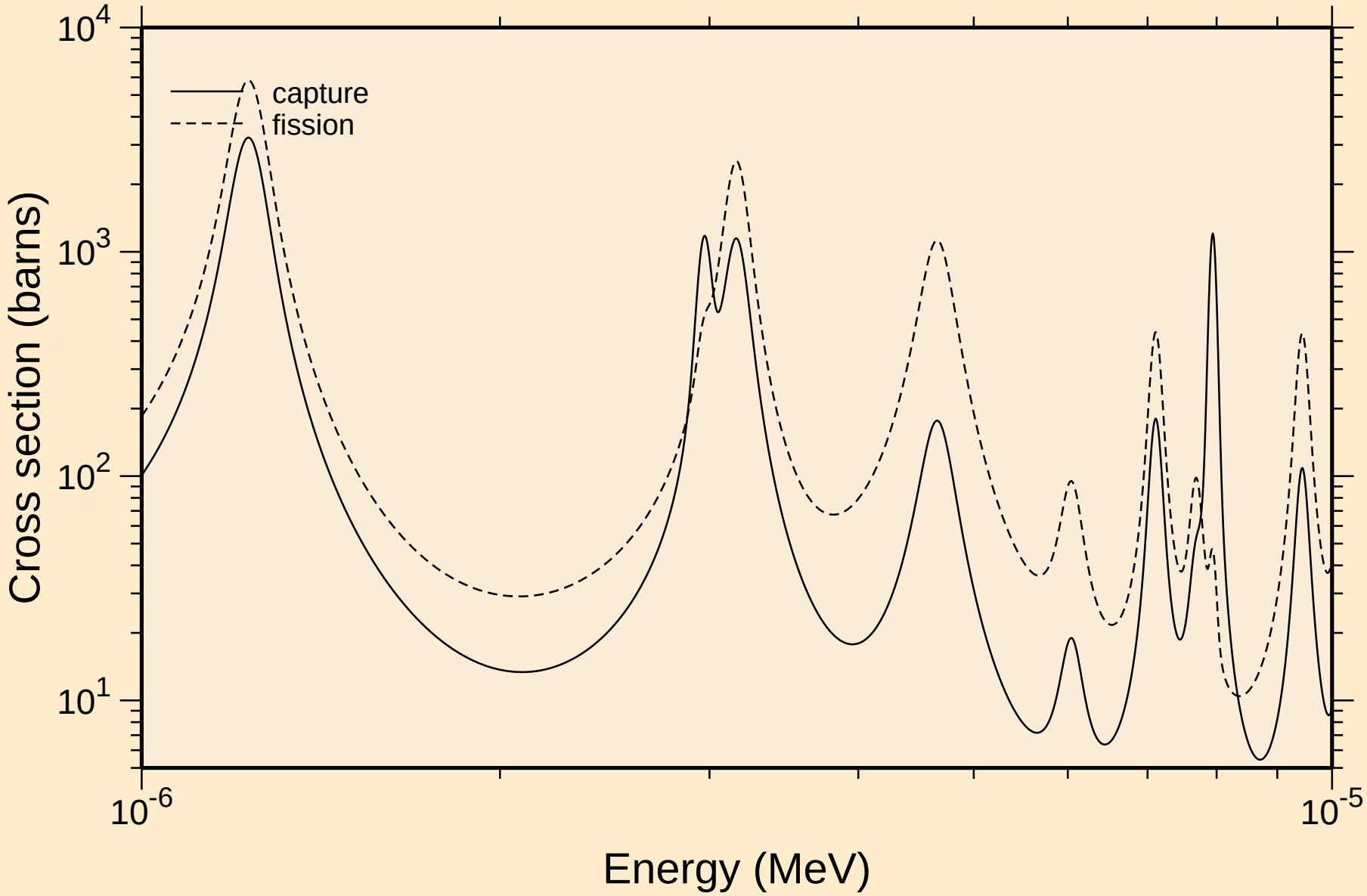
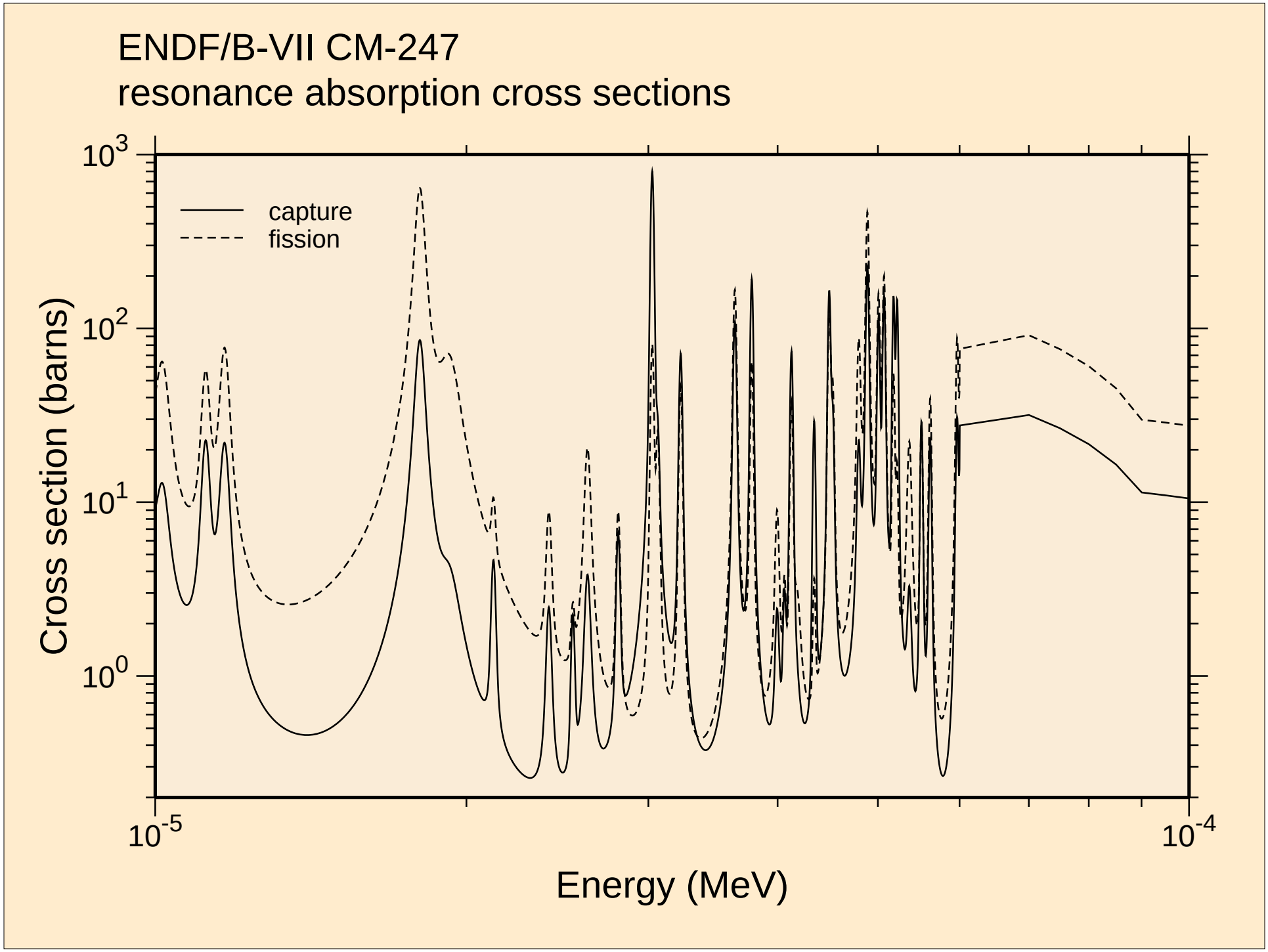

ENDF/B-VII CM-247
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
10^{4}
10^{3}
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
10^{-1}
10^{0}
10^{1}


ENDF/B-VII CM-247
resonance total cross section
total
Cross section (barns)
10^4
10^3
10^2
10^{-6}
10^{-5}
Energy (MeV)

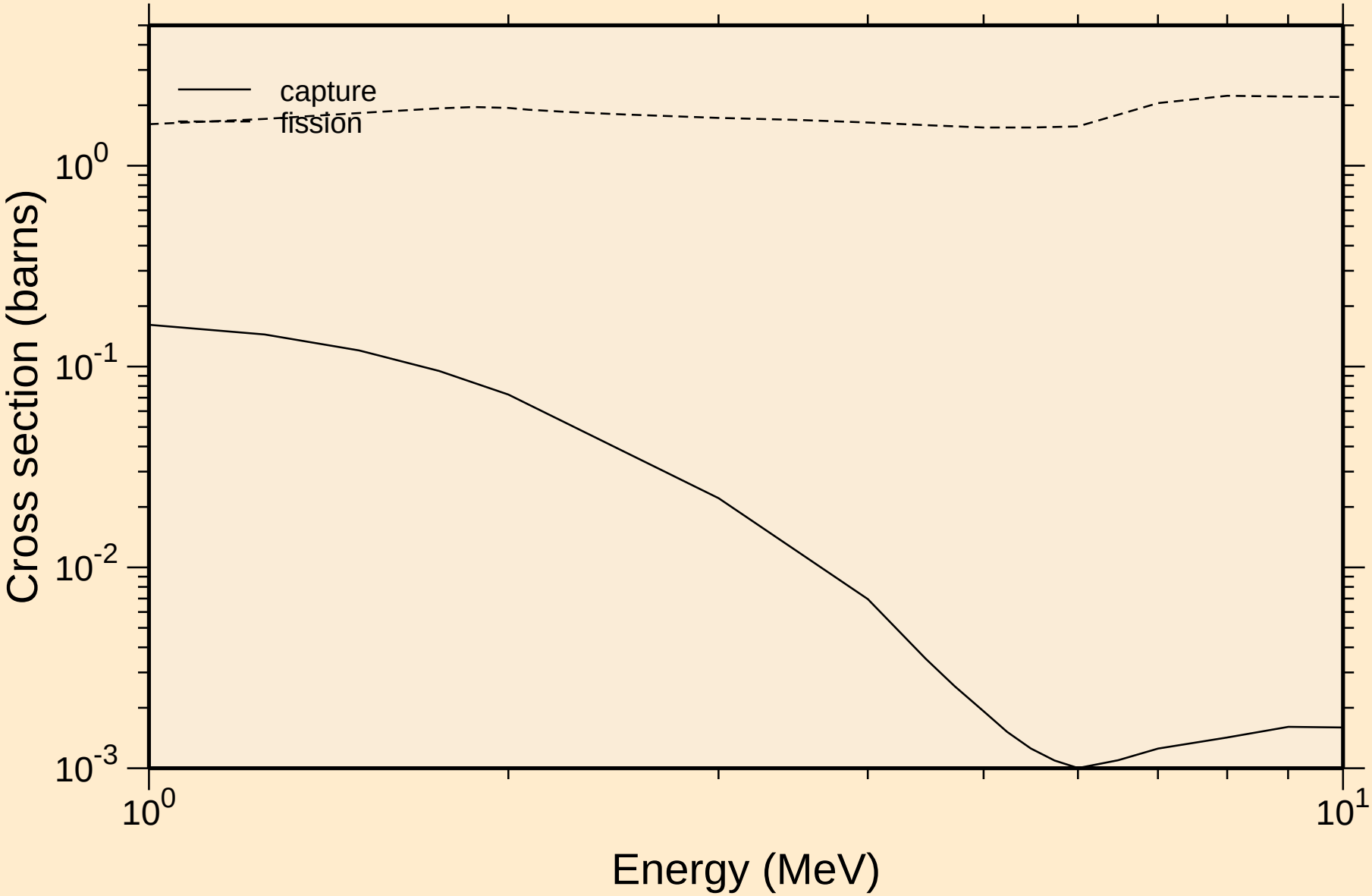

ENDF/B-VII CM-247
resonance total cross section
total
Cross section (barns)
10^3
10^2
10^1
10^{-5}
10^{-4}
Energy (MeV)

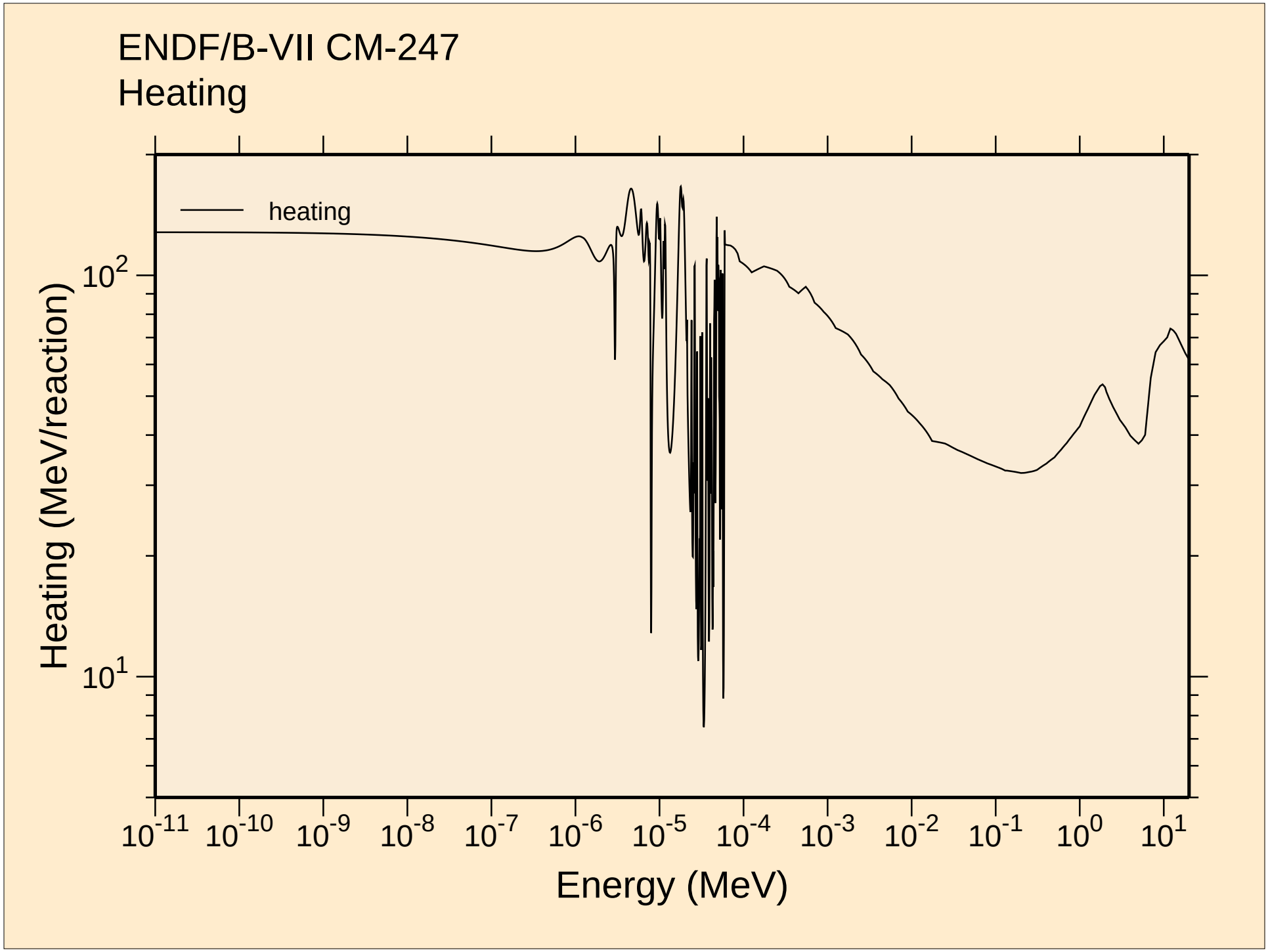
ENDF/B-VII CM-247
resonance absorption cross sections

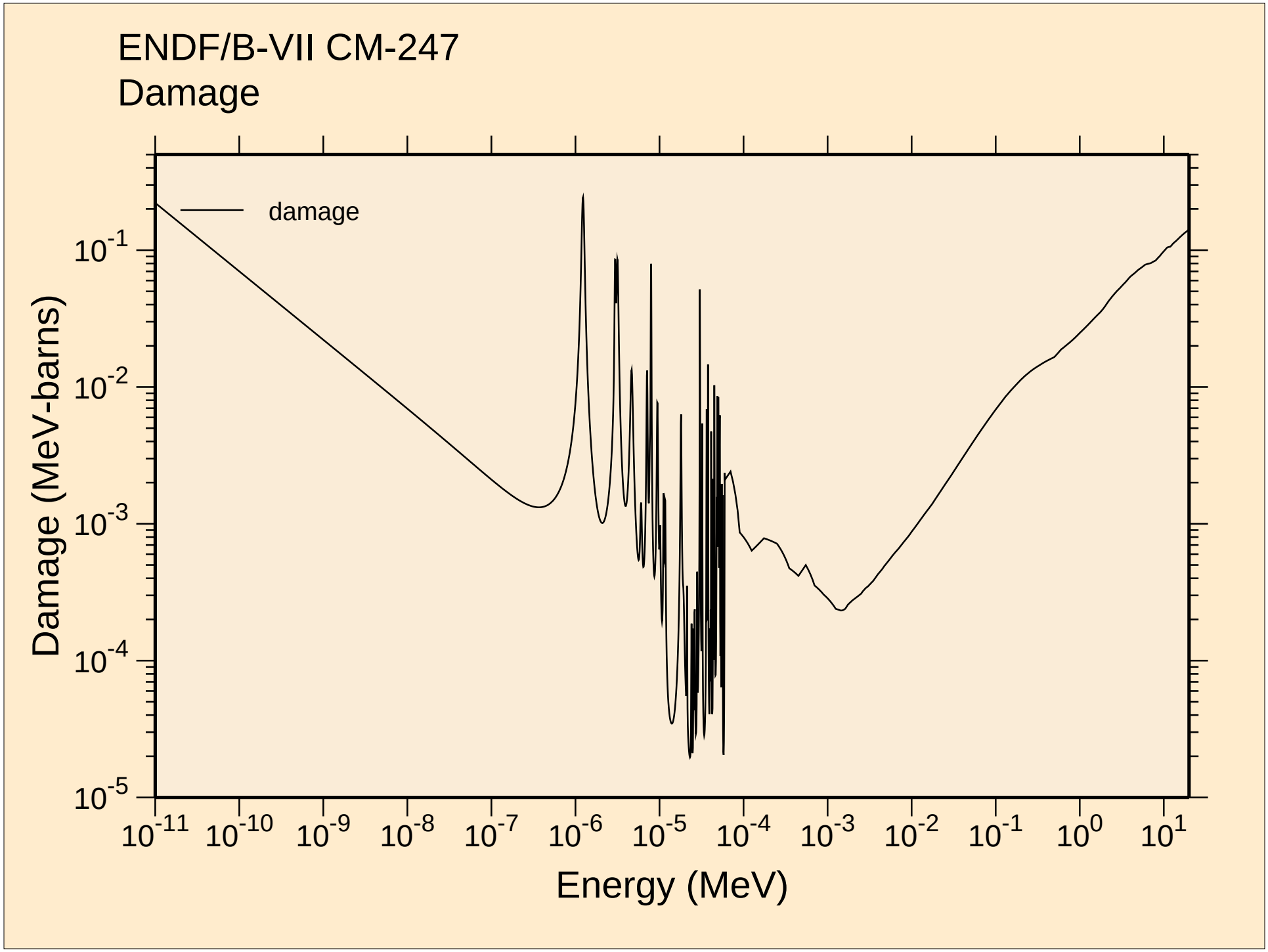


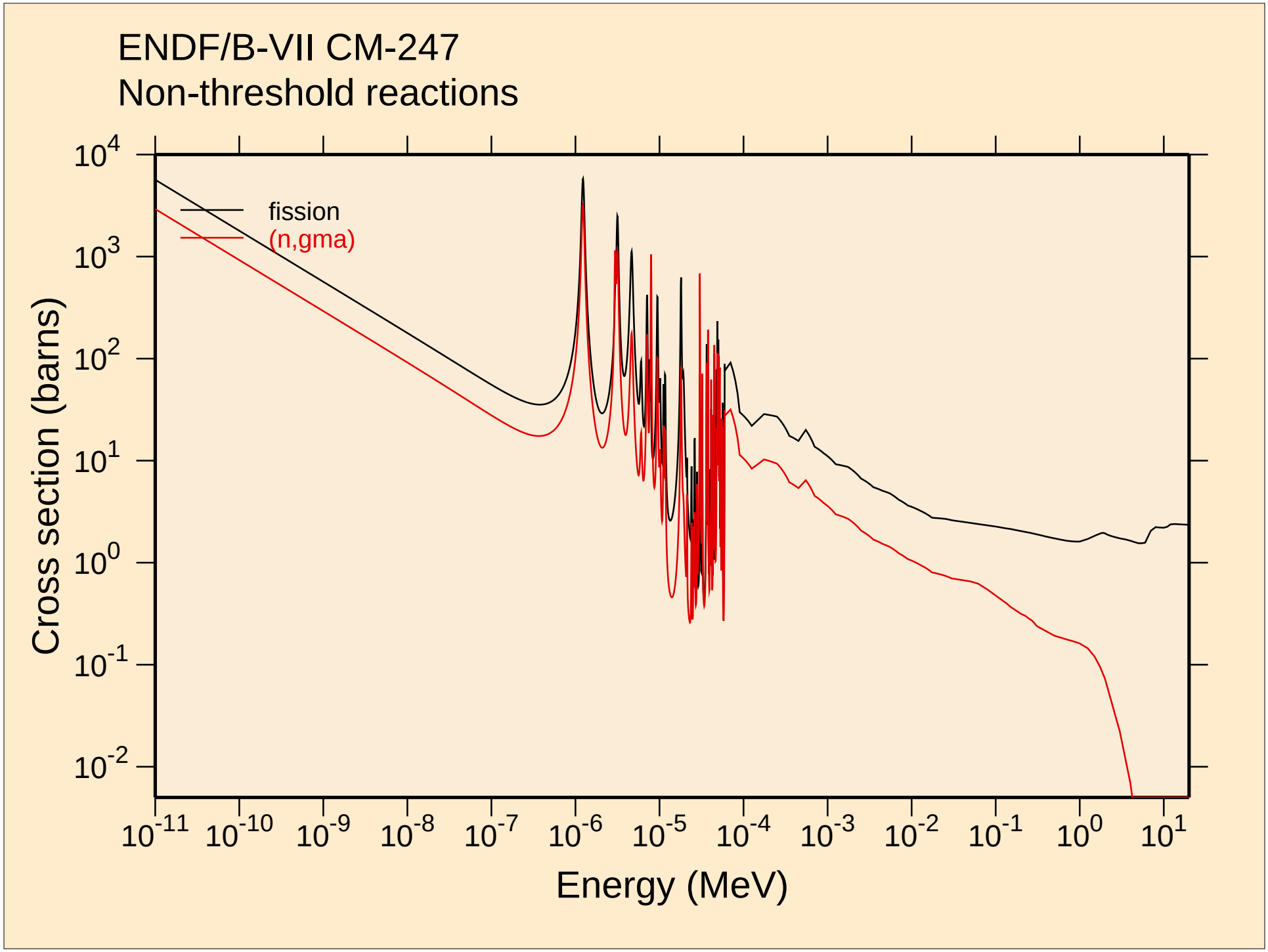

ENDF/B-VII CM-247
resonance absorption cross sections
capture
fission
Cross section (barns)
10^3
10^2
10^1
10^0
10^{-5}
10^{-4}
Energy (MeV)

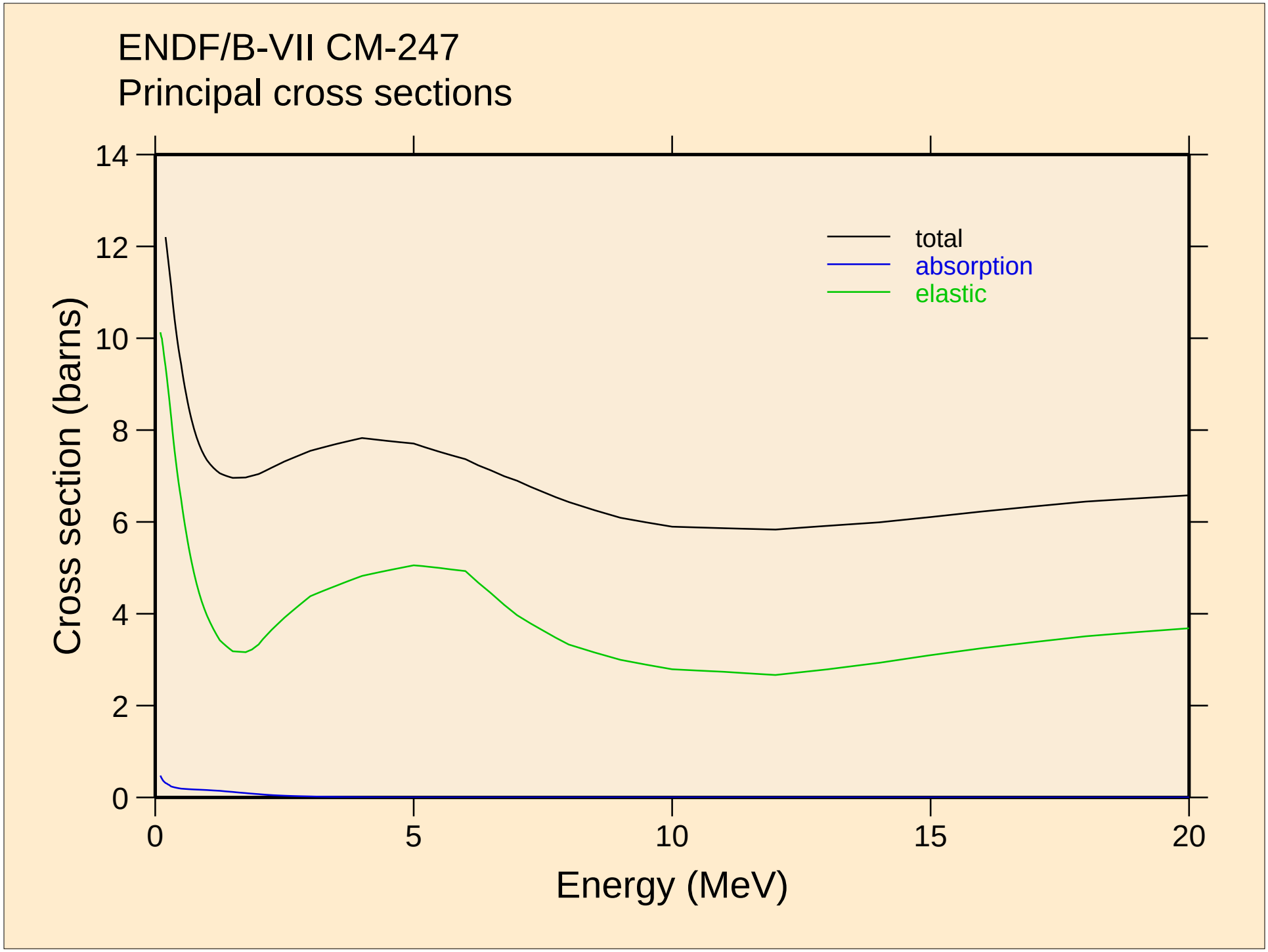
ENDF/B-VII CM-247
resonance absorption cross sections

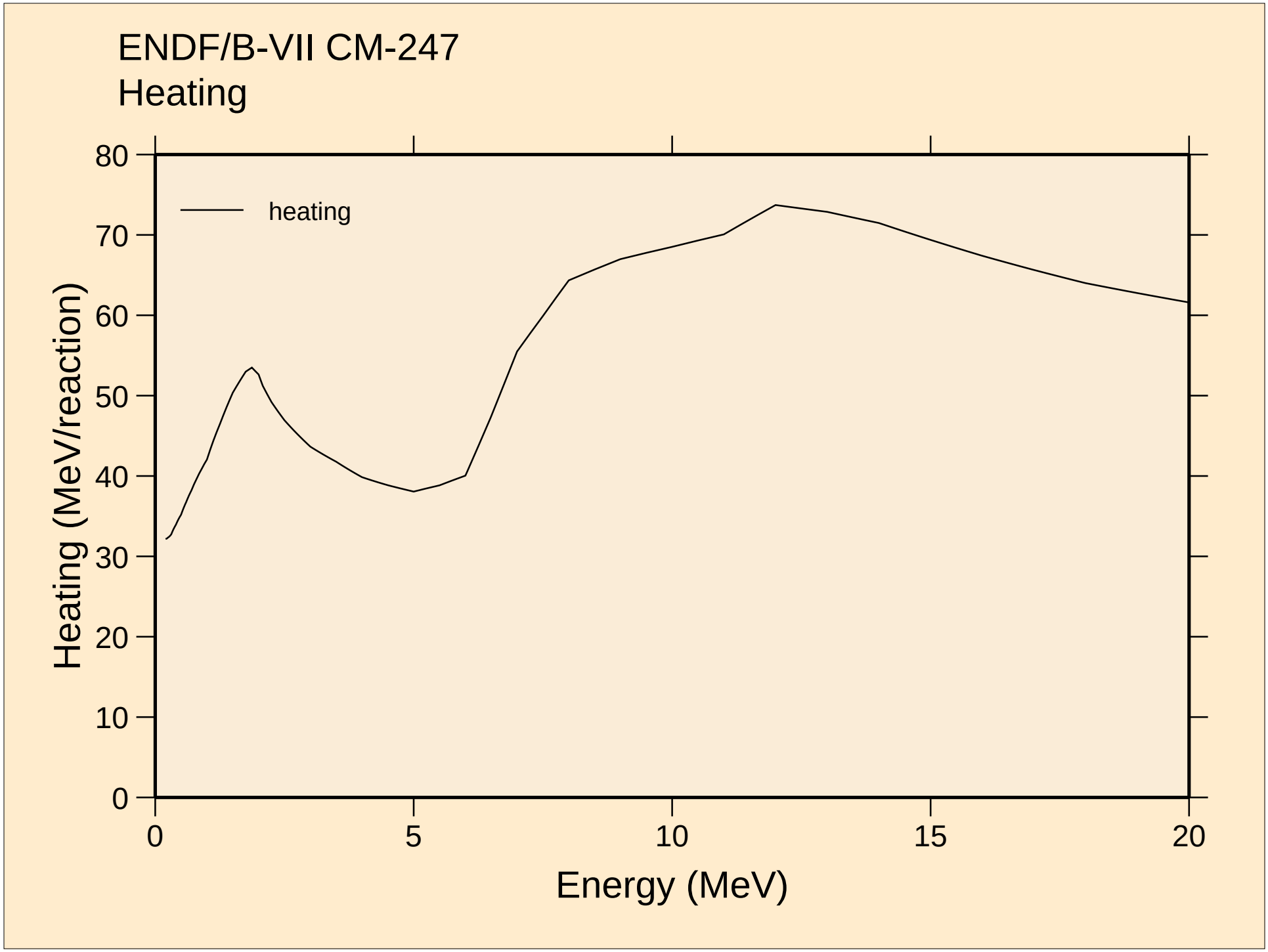


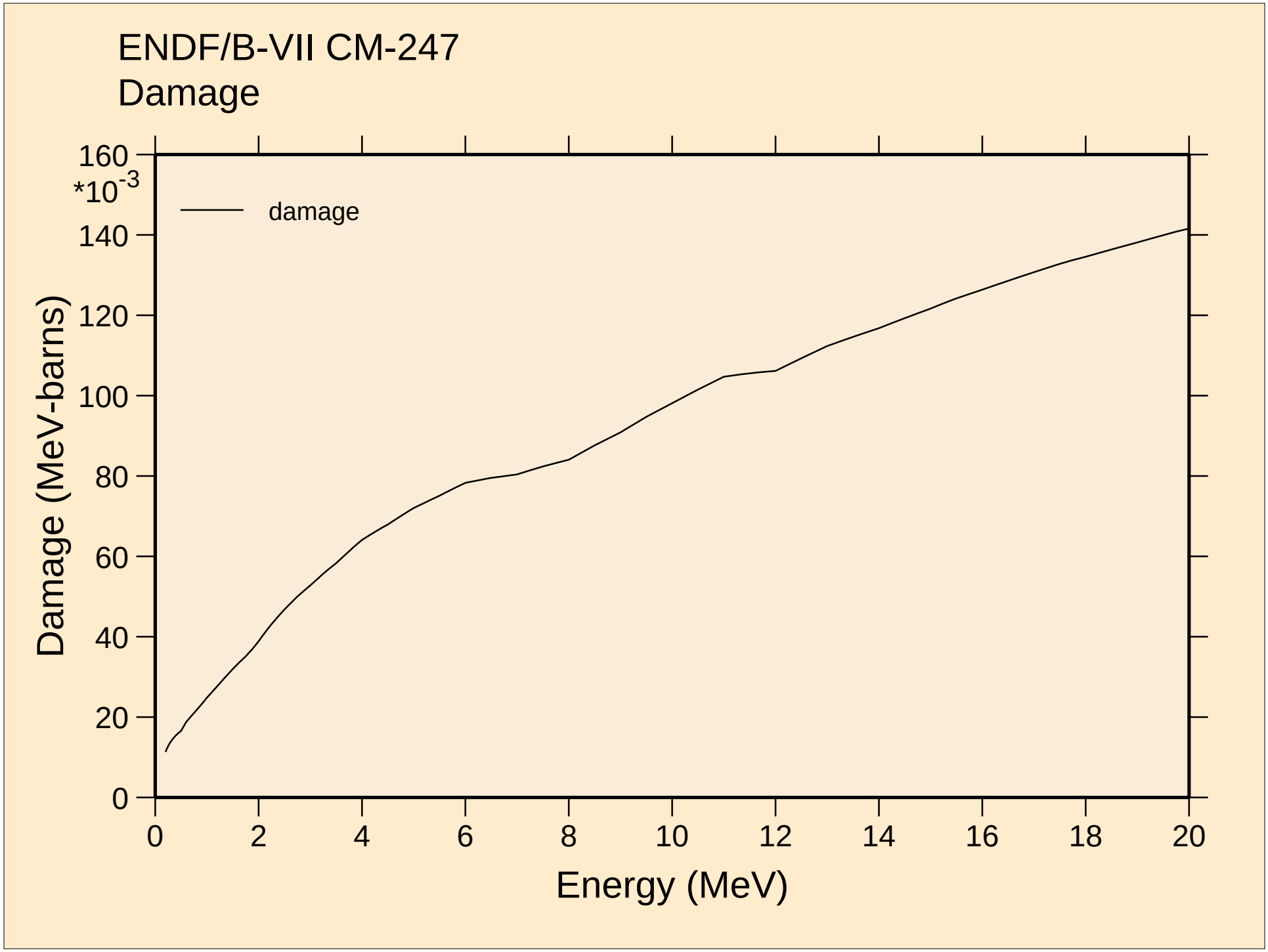

ENDF/B-VII CM-247
Heating
heating
Heating (MeV/reaction)
10^2
10^1
10^{-11} 10^{-10} 10^{-9} 10^{-8} 10^{-7} 10^{-6} 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1}
Energy (MeV)

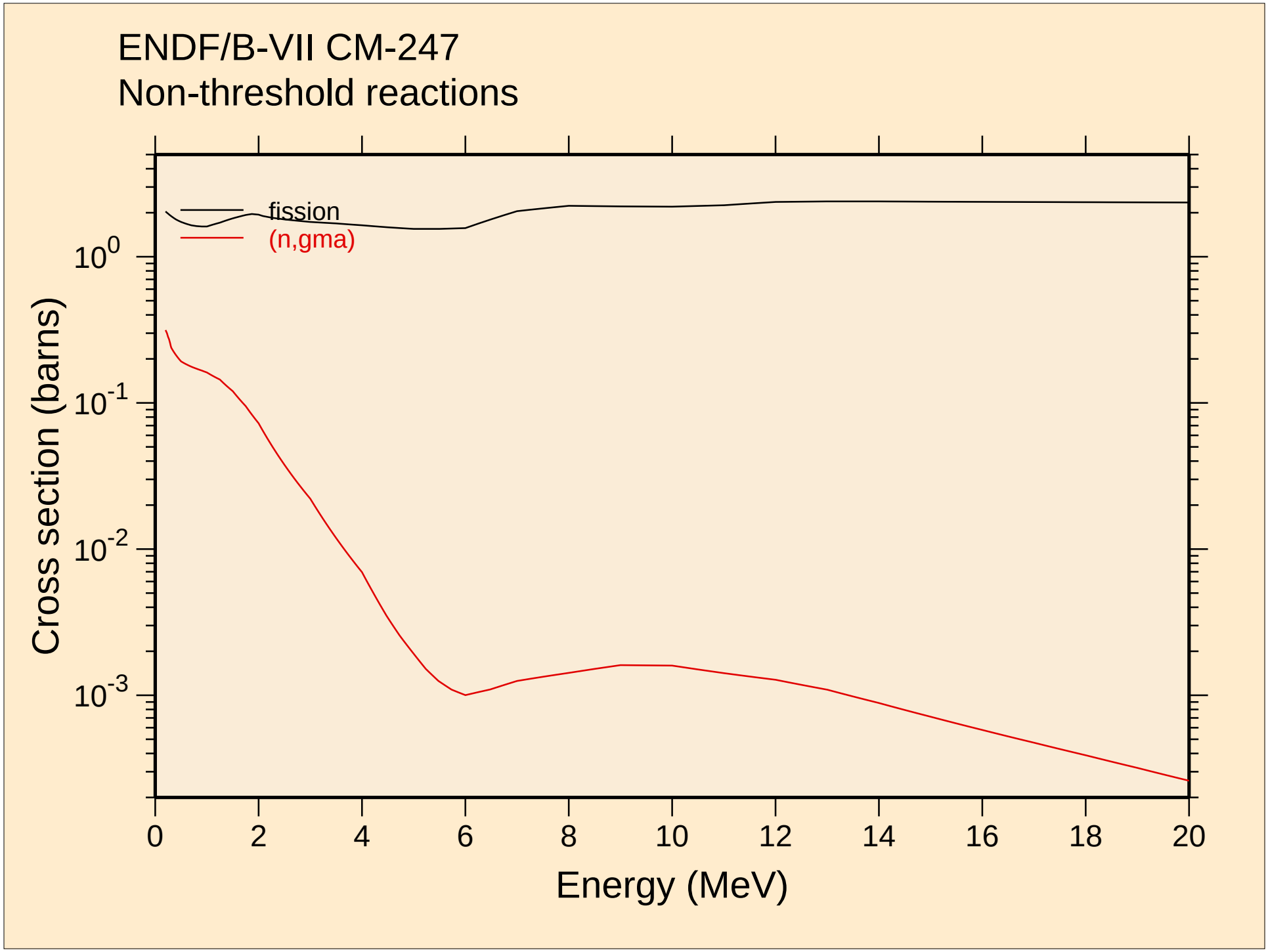

ENDF/B-VII CM-247
Damage
damage
Damage (MeV-barns)
Energy (MeV)
10^-1
10^-2
10^-3
10^-4
10^-5
10^-11
10^-10
10^-9
10^-8
10^-7
10^-6
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1

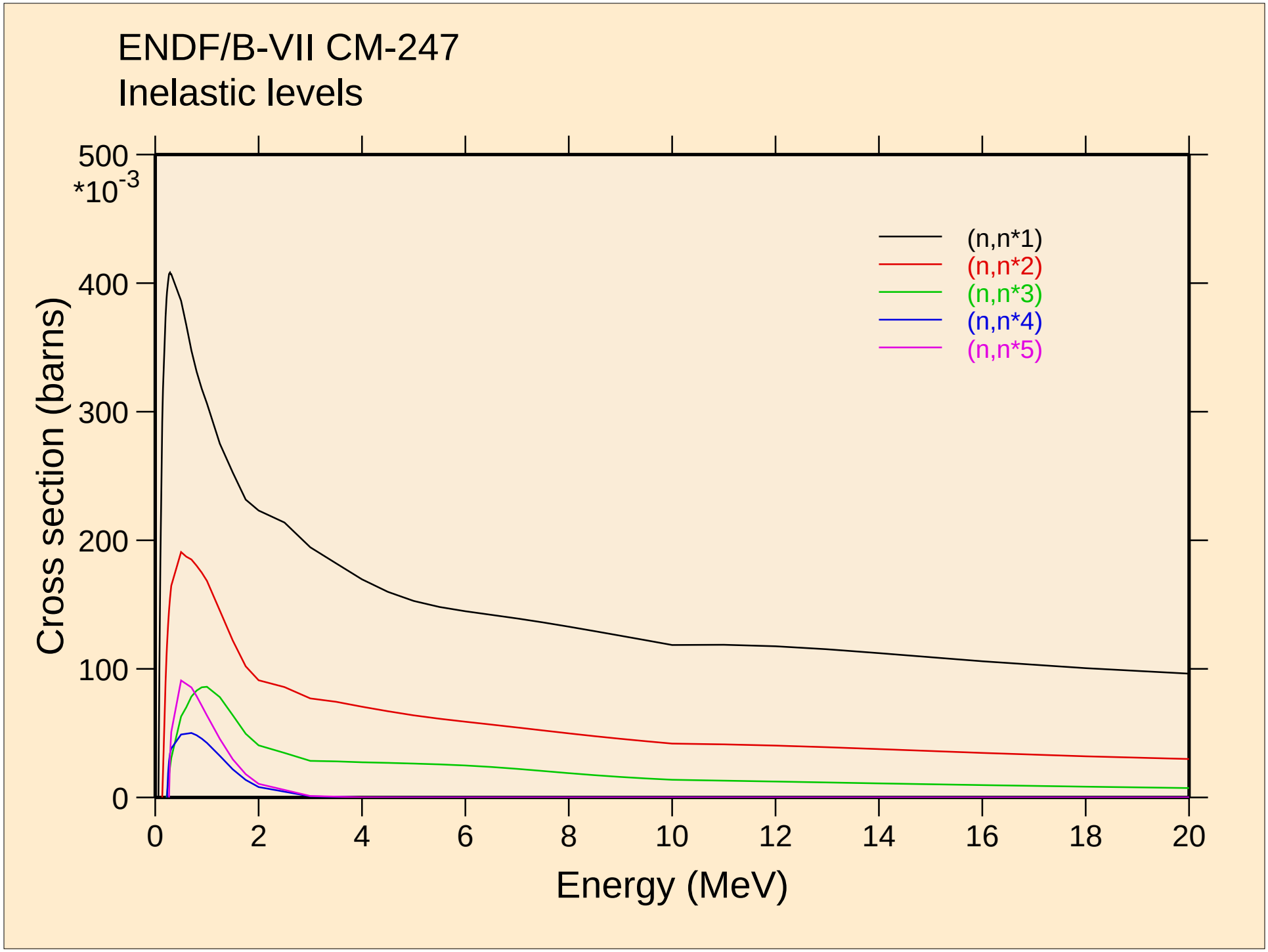

ENDF/B-VII CM-247
Non-threshold reactions
fission
(n,gma)
Cross section (barns)
Energy (MeV)
10^{4}
10^{3}
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-11} 10^{-10} 10^{-9} 10^{-8} 10^{-7} 10^{-6} 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1}

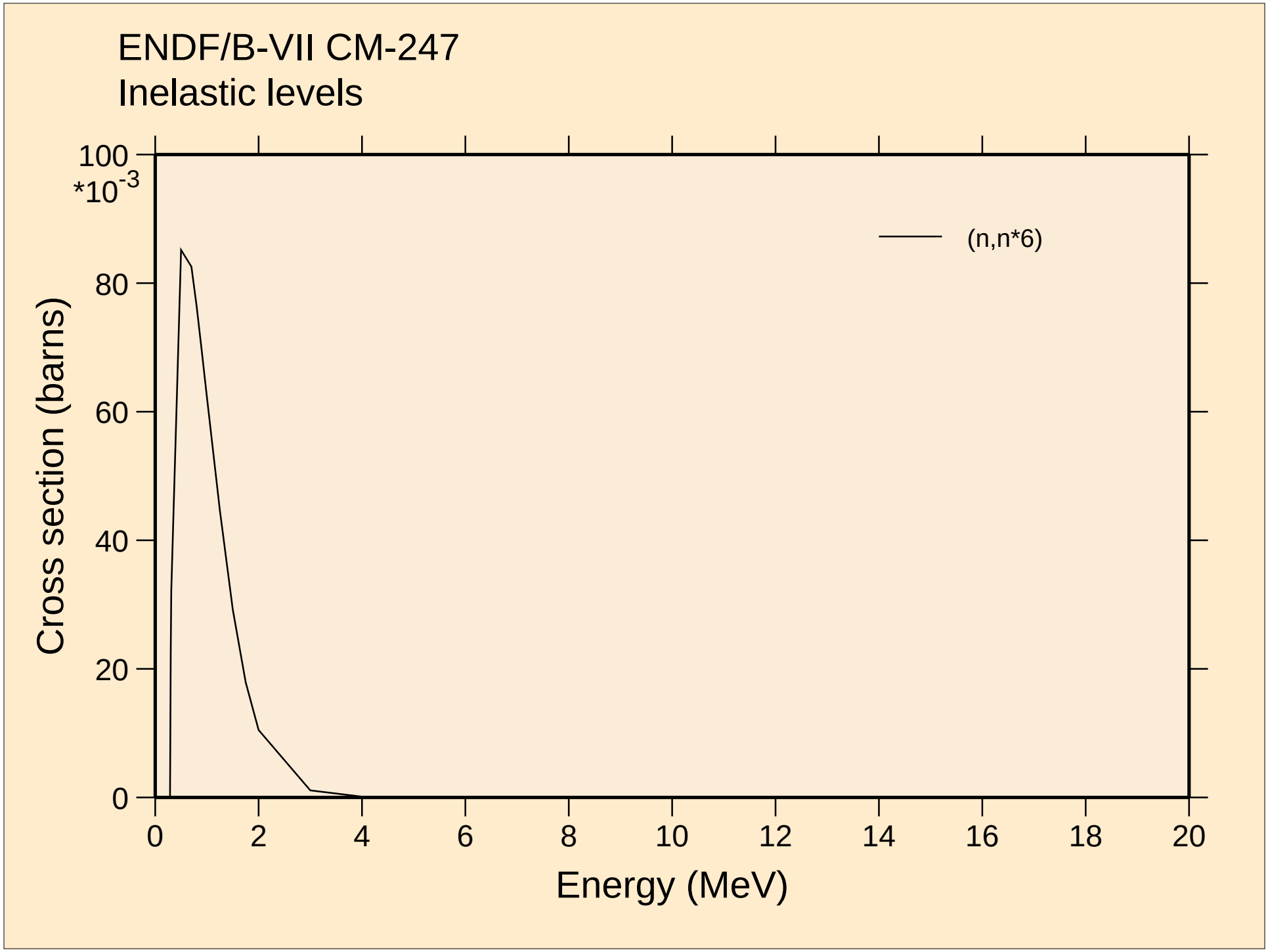

ENDF/B-VII CM-247
Principal cross sections
total
absorption
elastic
Cross section (barns)
Energy (MeV)
0
2
4
6
8
10
12
14
0
5
10
15
20

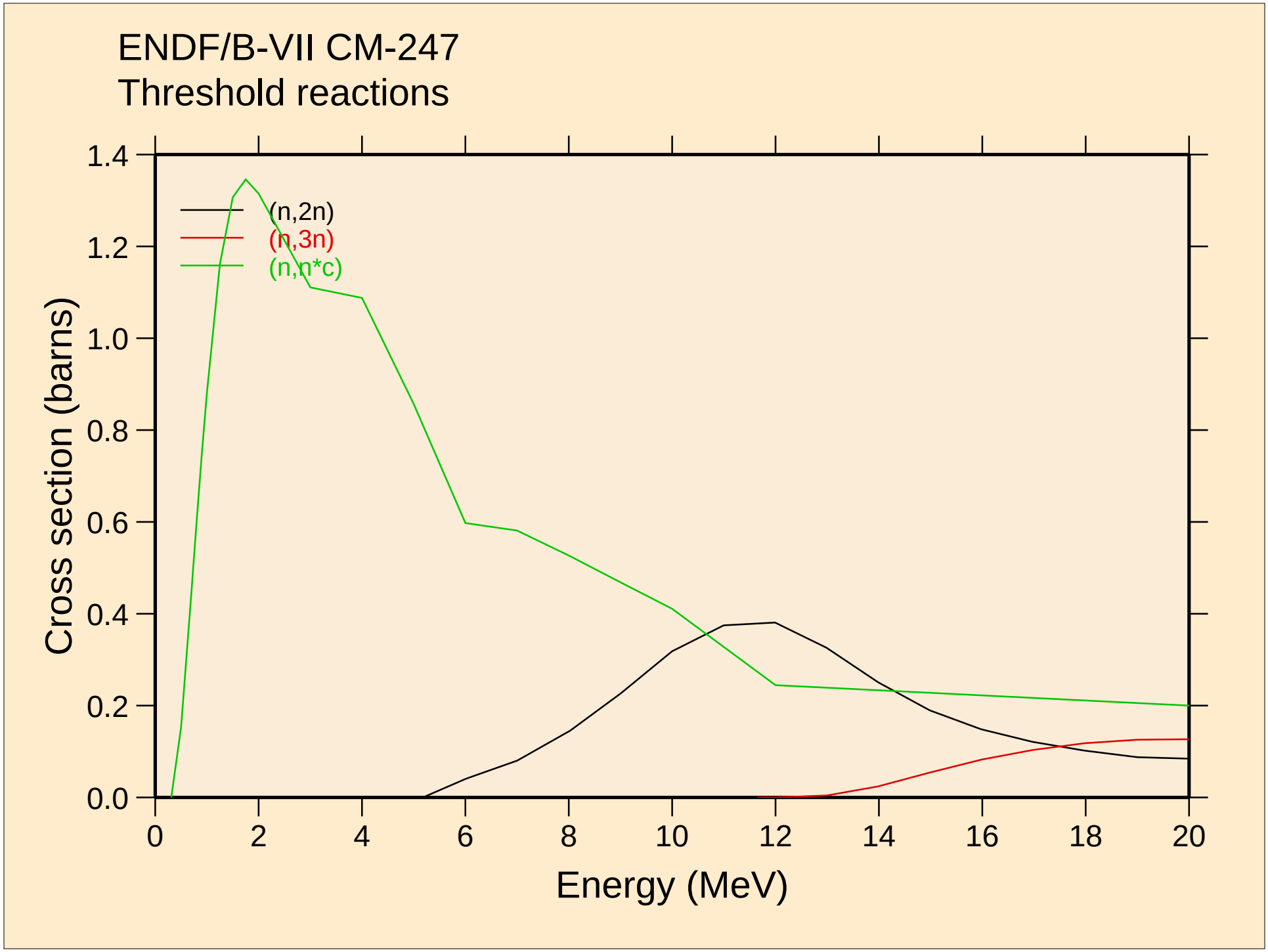

ENDF/B-VII CM-247
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
10
20
30
40
50
60
70
80
0
5
10
15
20

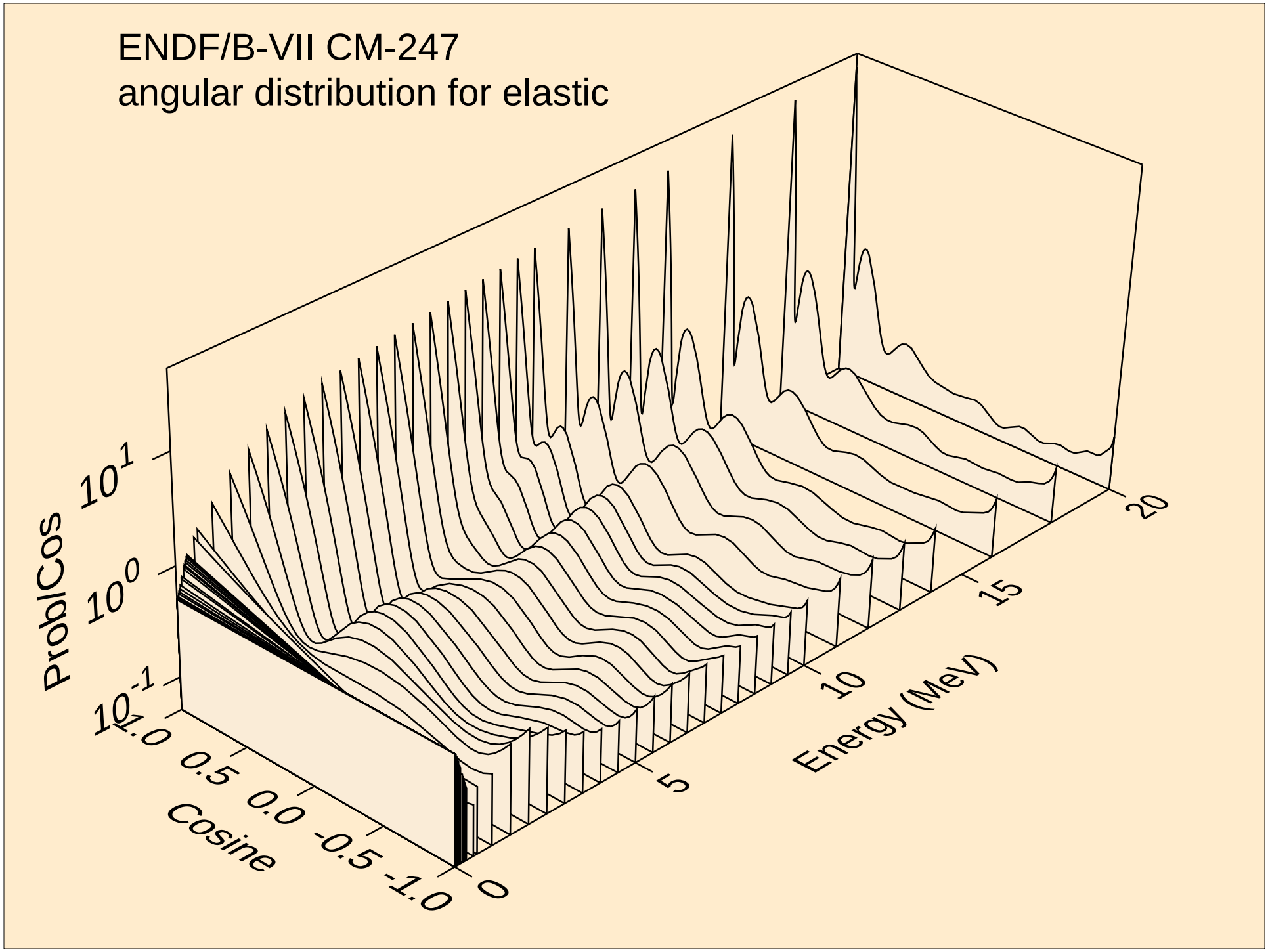

ENDF/B-VII CM-247
Damage
damage
*10-3
160
140
120
100
80
60
40
20
0
Damage (MeV-barns)
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

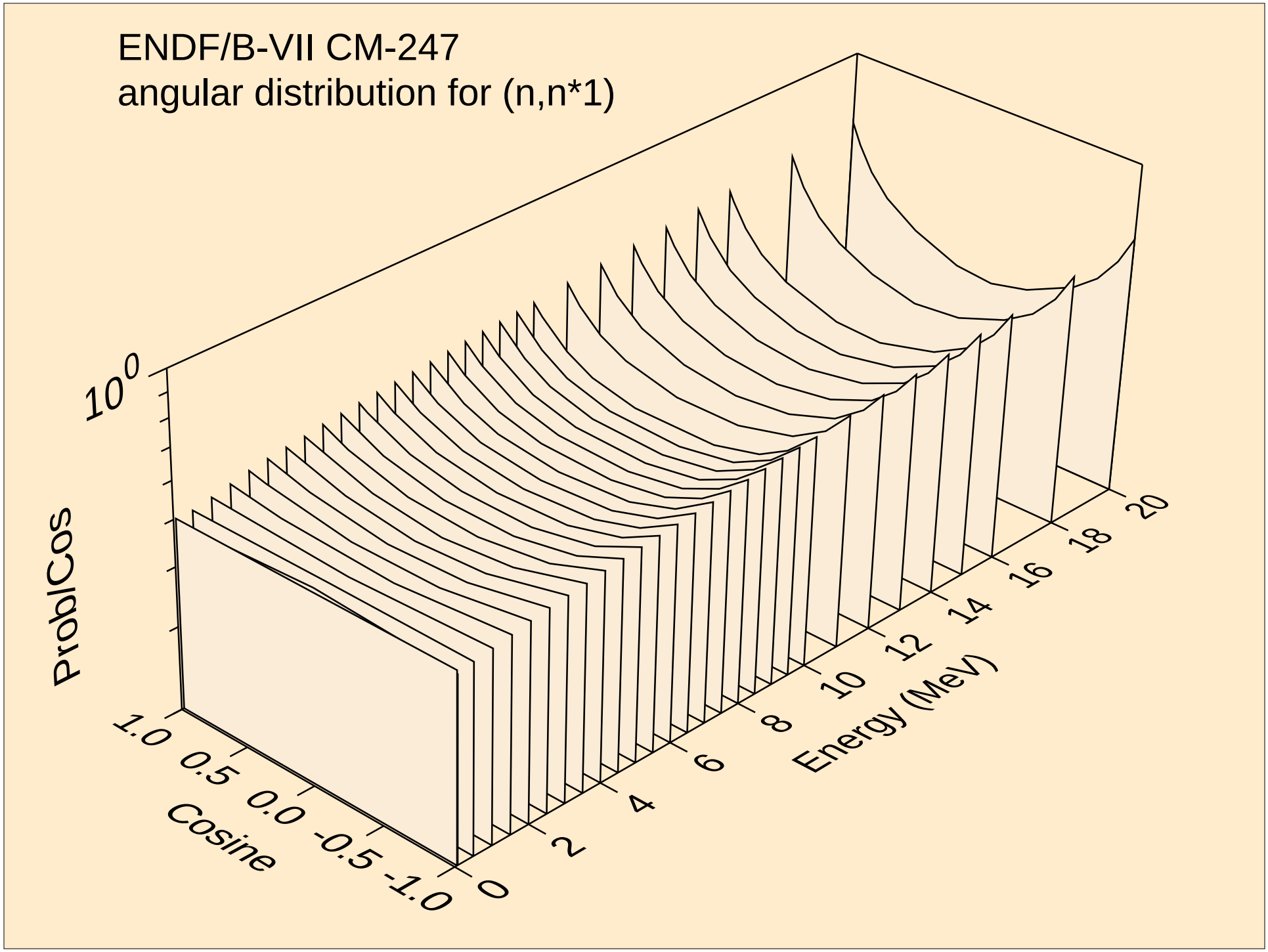

ENDF/B-VII CM-247
Non-threshold reactions
fission
(n,gma)
Cross section (barns)
10^0
10^{-1}
10^{-2}
10^{-3}
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

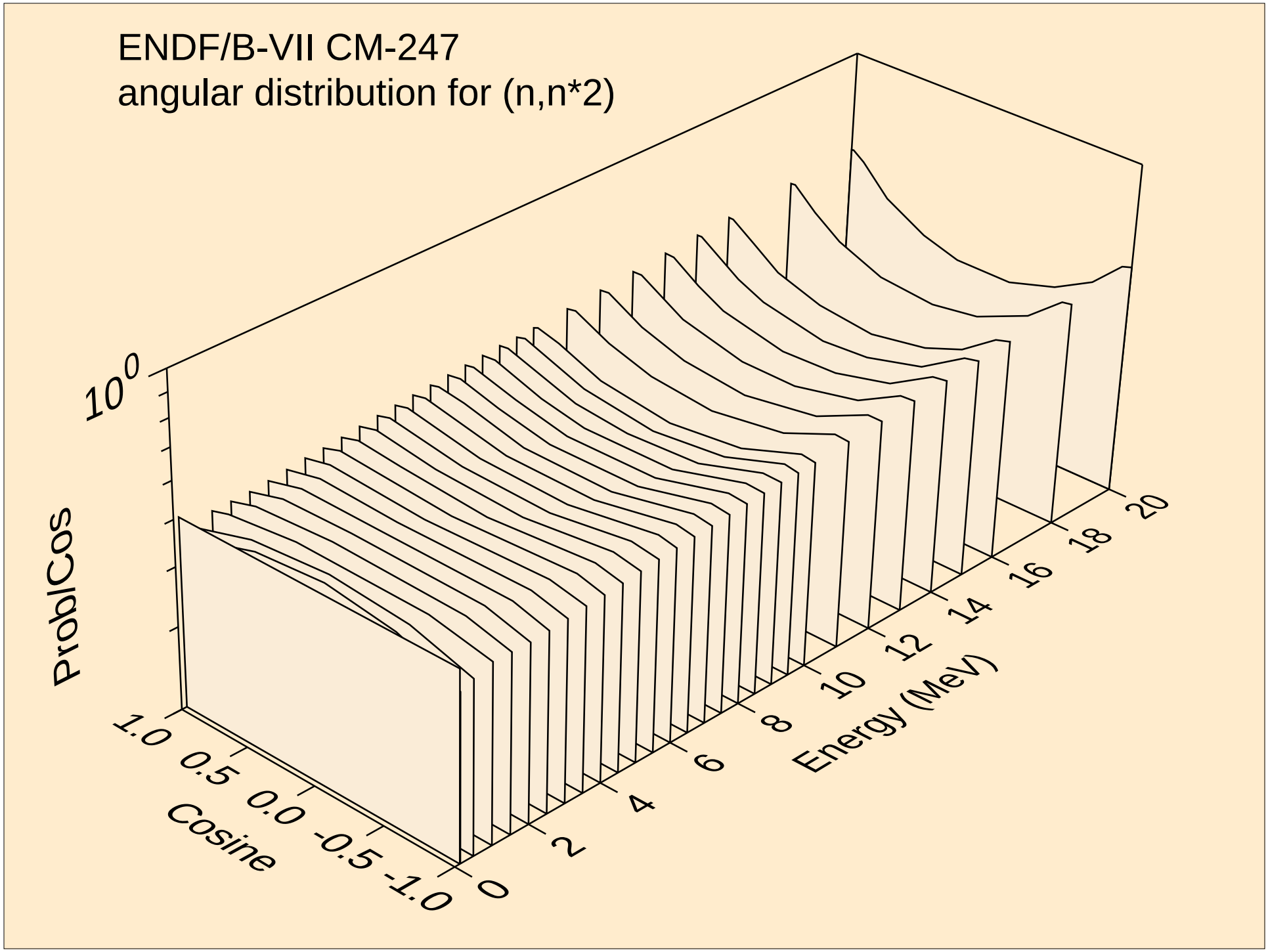

ENDF/B-VII CM-247
Inelastic levels
500
*10-3
400
300
200
100
0
Cross section (barns)
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)
(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)

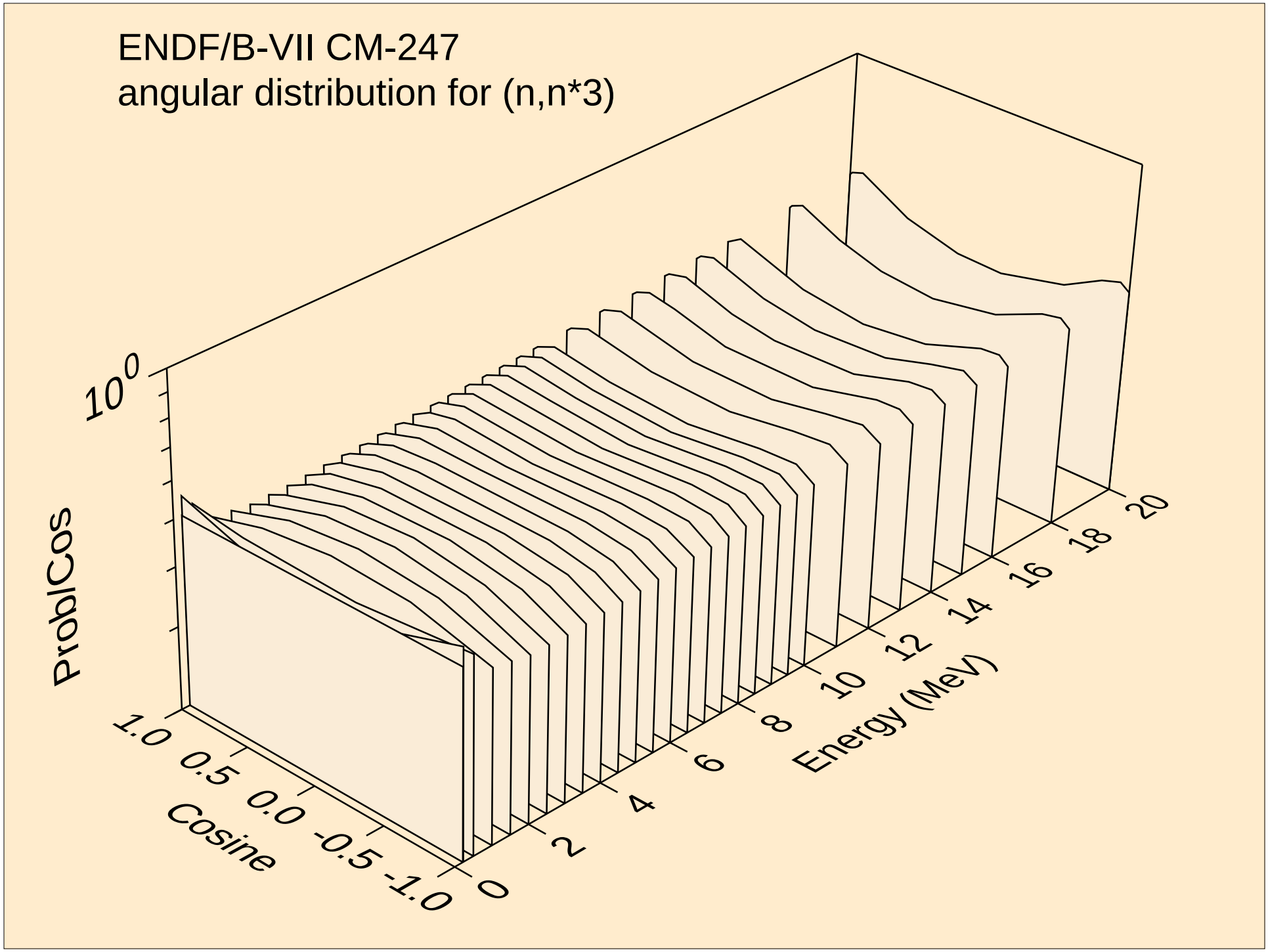

ENDF/B-VII CM-247
Inelastic levels
100
*10-3
80
60
40
20
0
Cross section (barns)
(n,n*6)
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

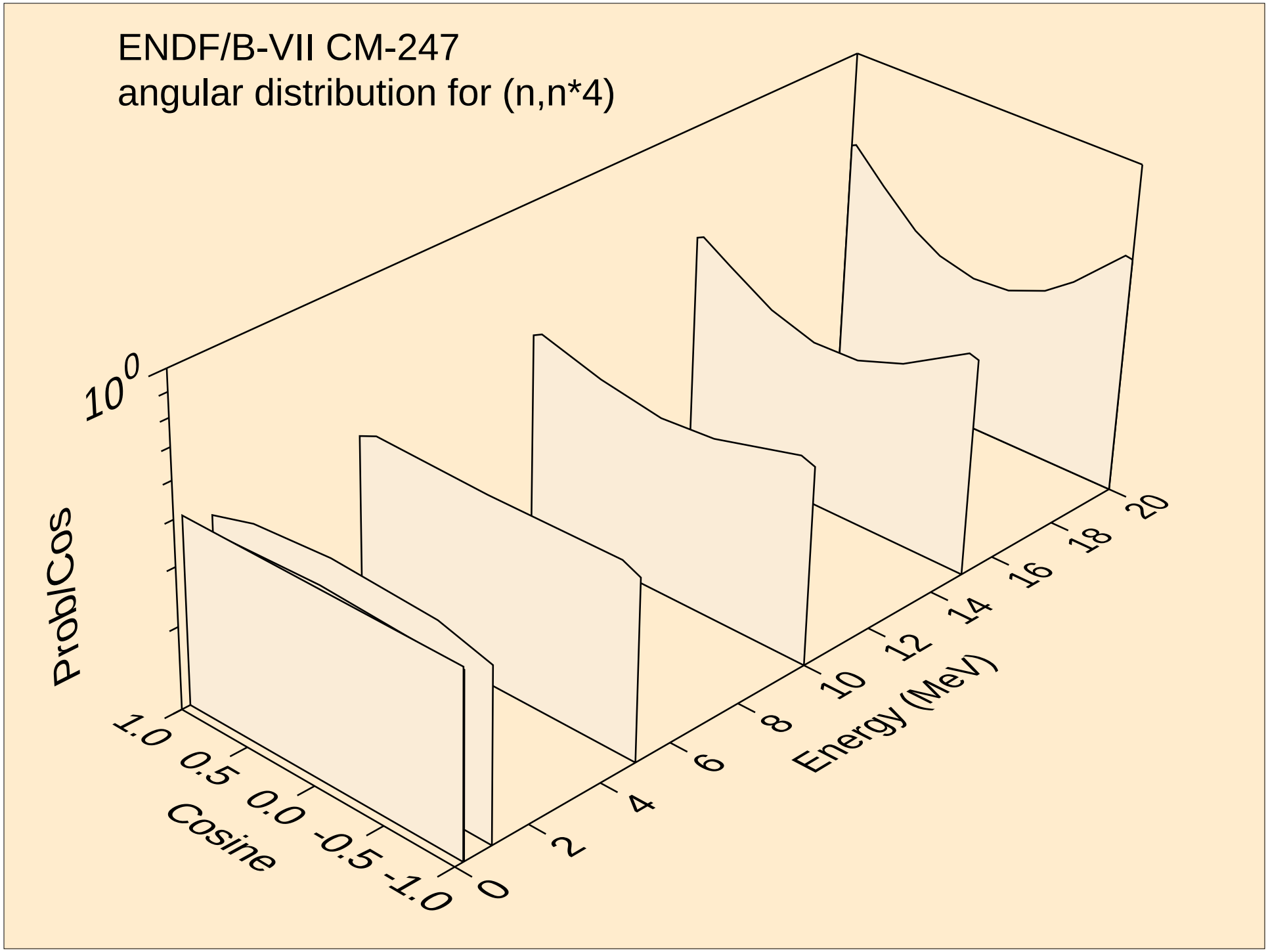

ENDF/B-VII CM-247
Threshold reactions
(n,2n)
(n,3n)
(n,n*c)
Cross section (barns)
Energy (MeV)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
0
2
4
6
8
10
12
14
16
18
20

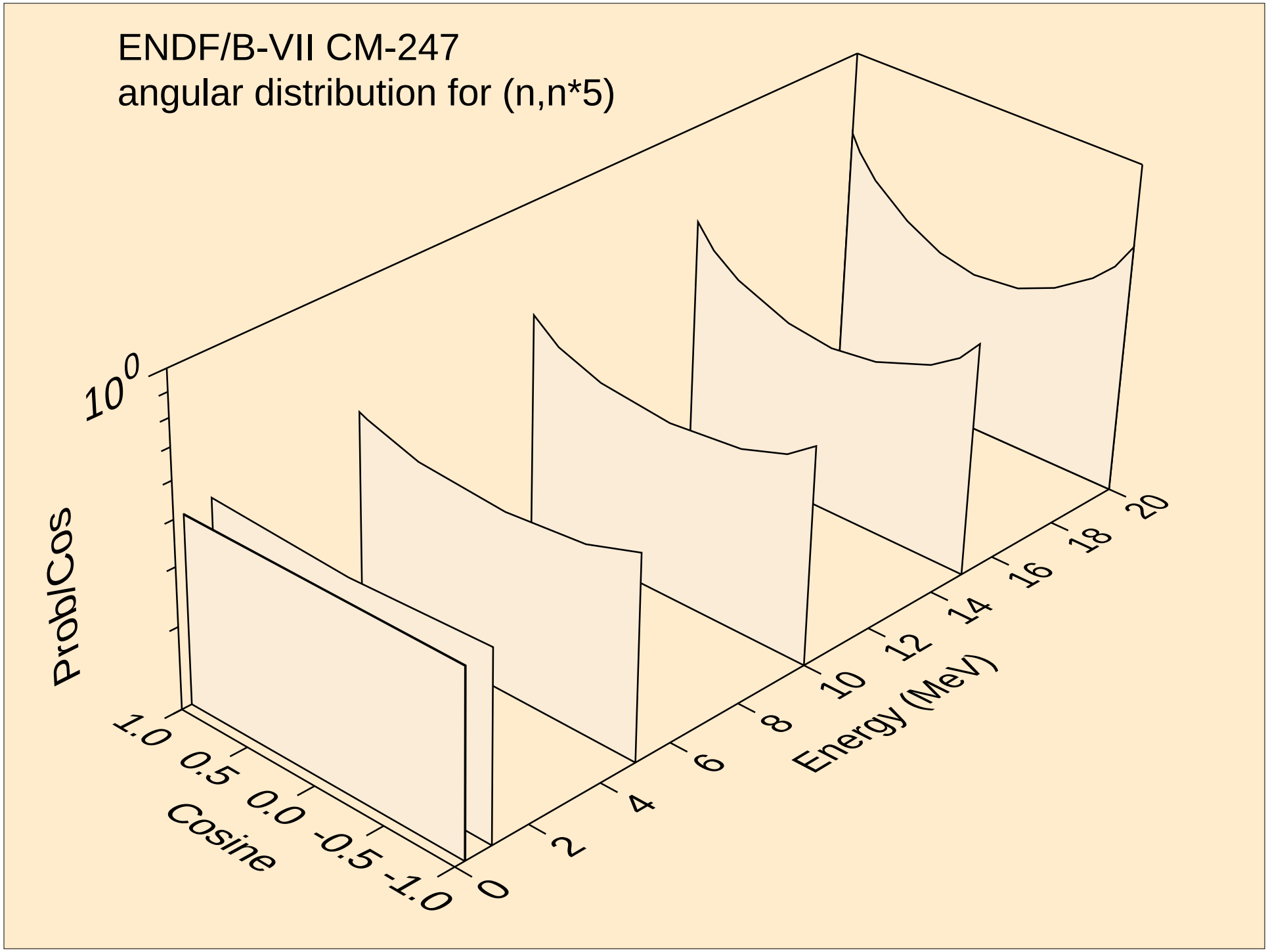

ENDF/B-VII CM-247
angular distribution for elastic
ProblCos
10^{1}
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

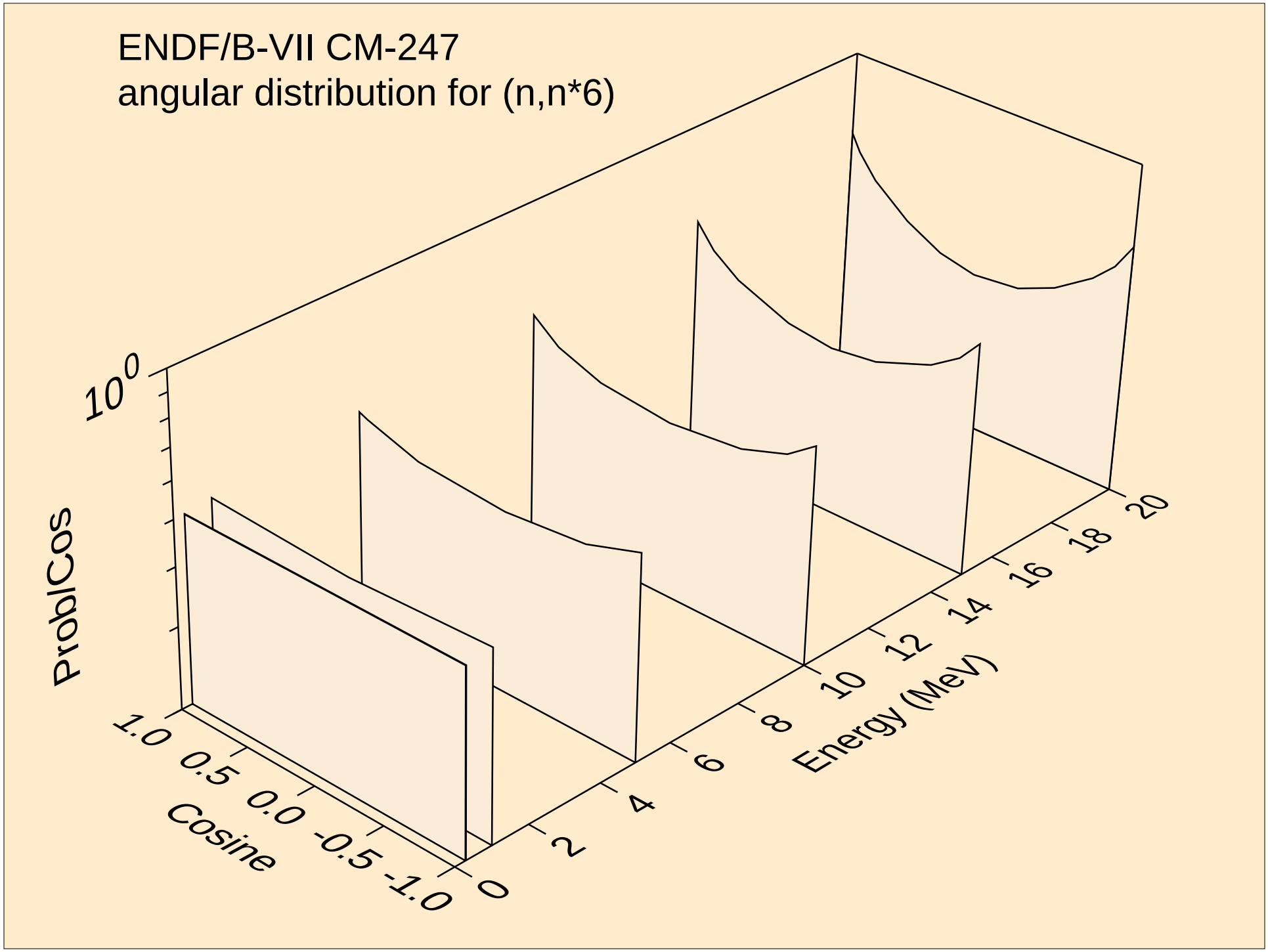

ENDF/B-VII CM-247
angular distribution for (n,n*1)
10^0
ProbCos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

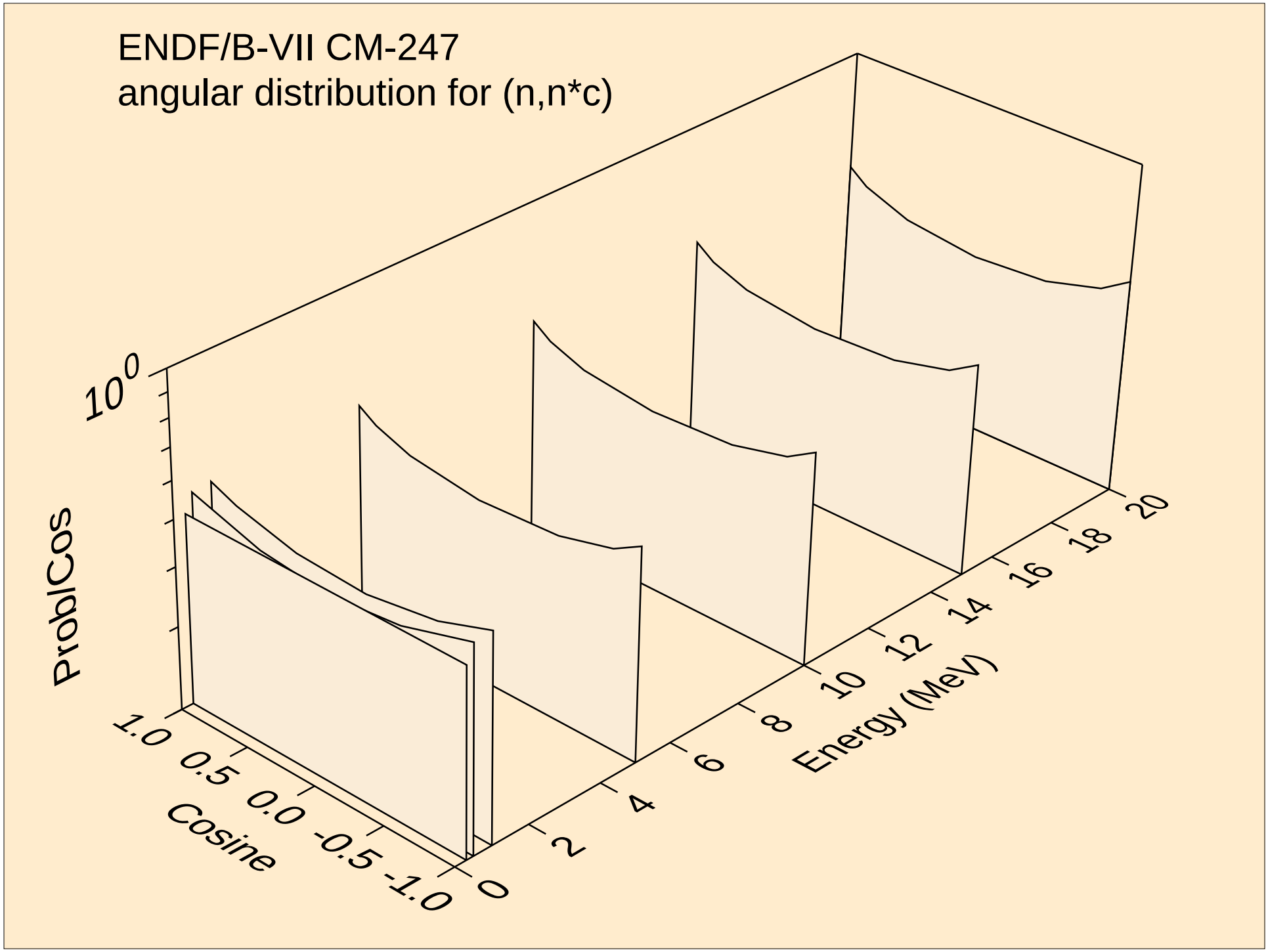

ENDF/B-VII CM-247
angular distribution for (n,n*2)
10^0
ProbCos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

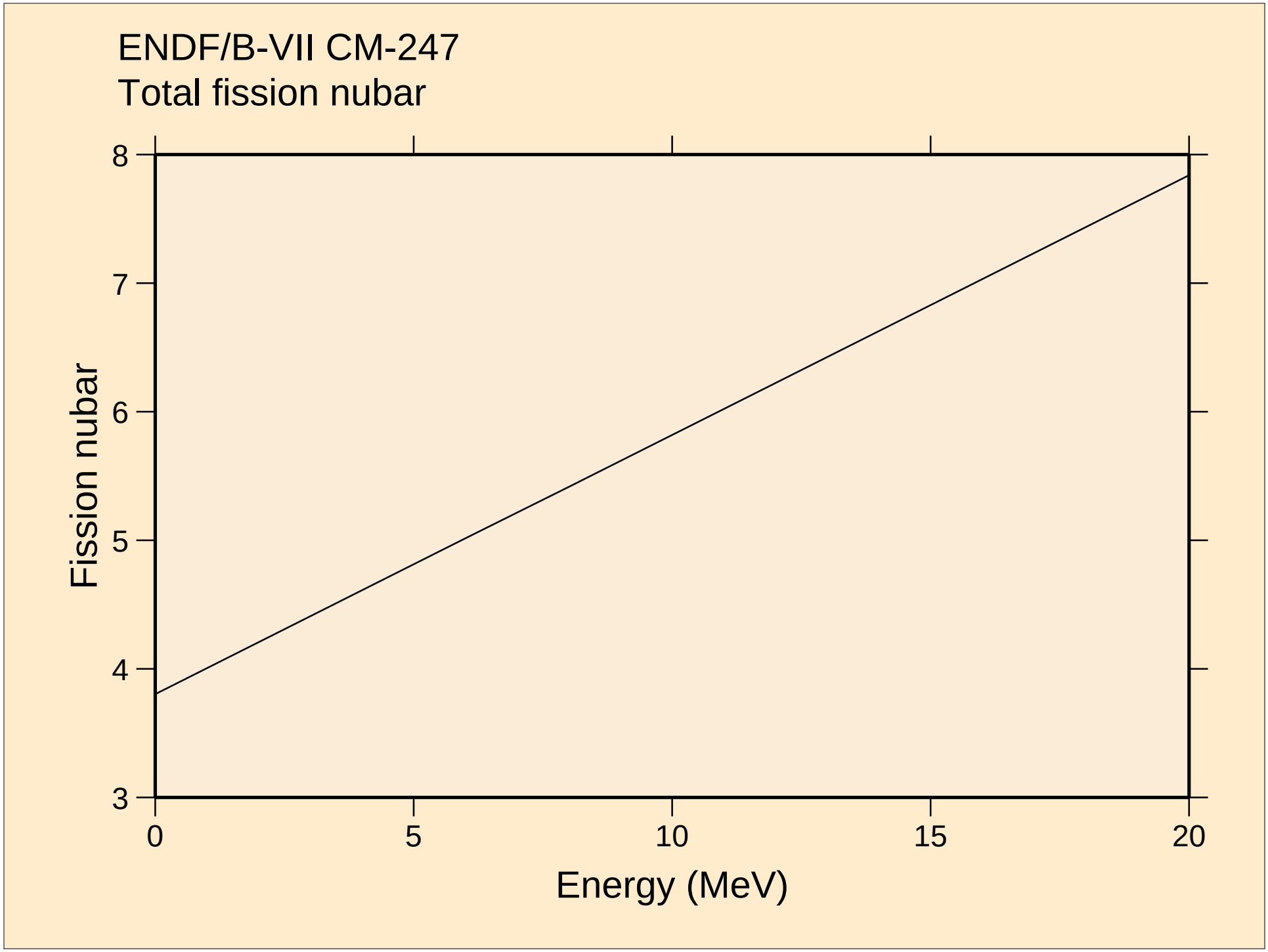

ENDF/B-VII CM-247
angular distribution for (n,n*3)
10^0
ProbCos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

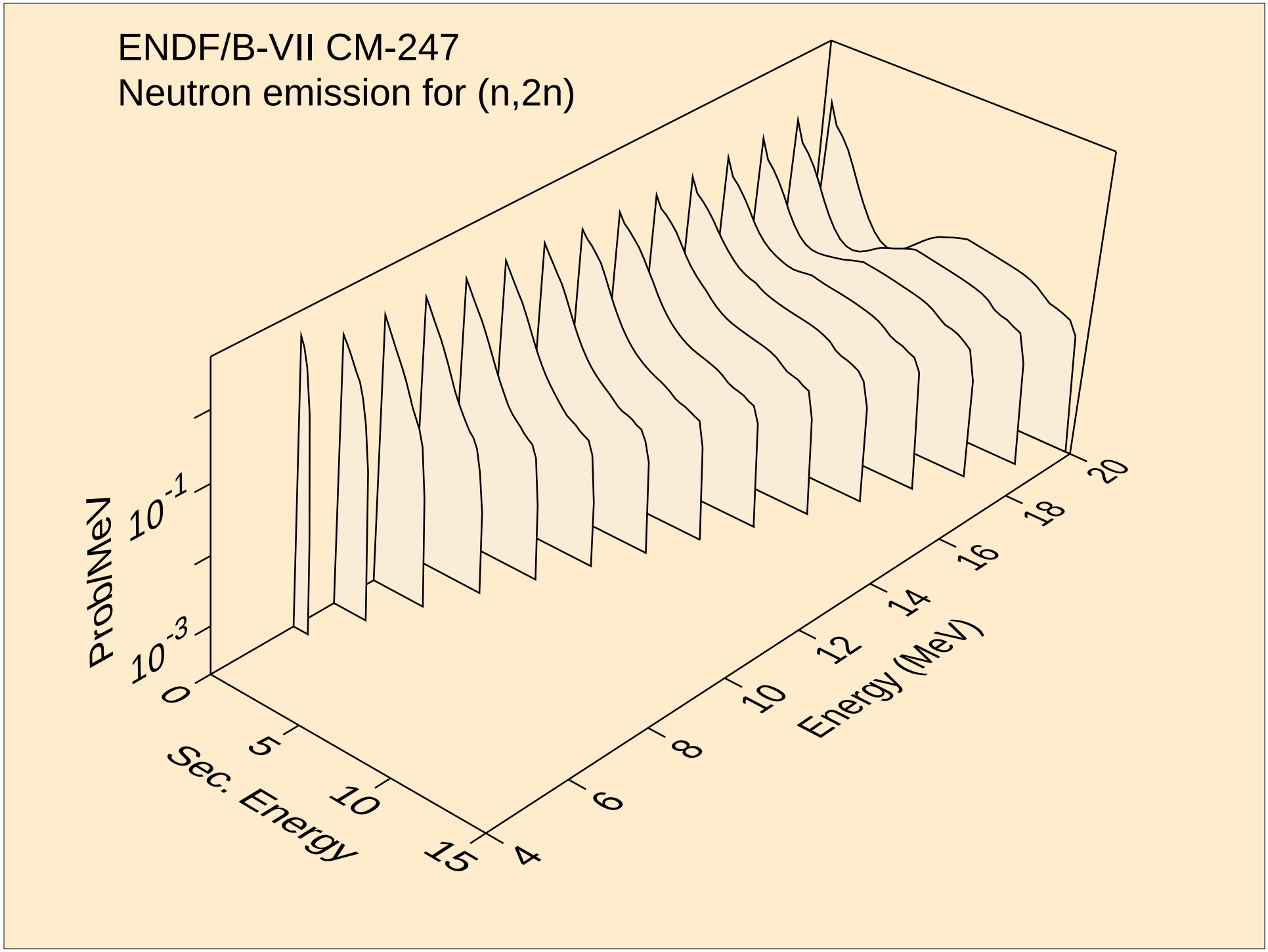

ENDF/B-VII CM-247
angular distribution for (n,n*4)
10^0
ProbCos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)


ENDF/B-VII CM-247
angular distribution for (n,n*5)
10^0
ProbCos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

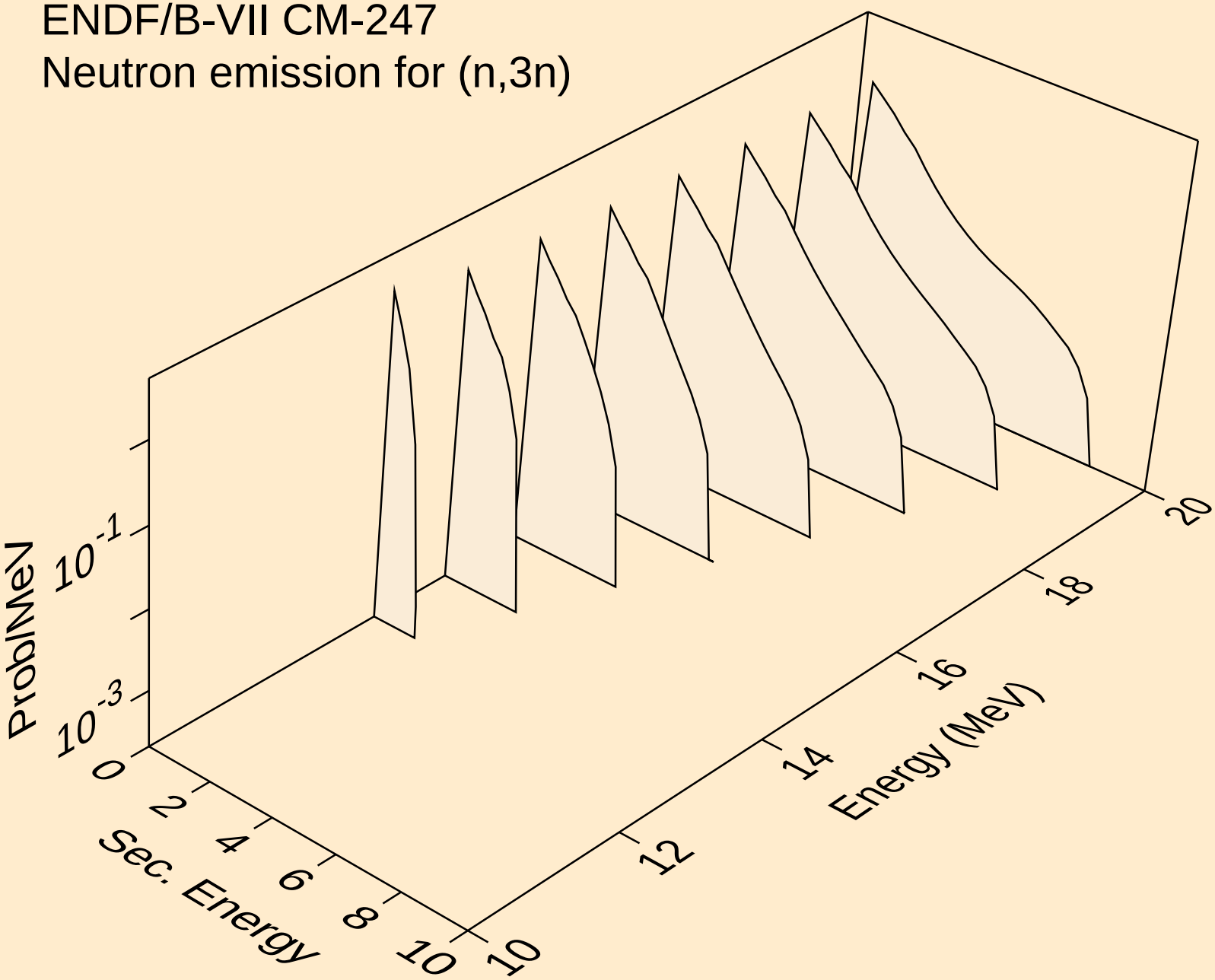

ENDF/B-VII CM-247
angular distribution for (n,n*6)
10^0
Prob/Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

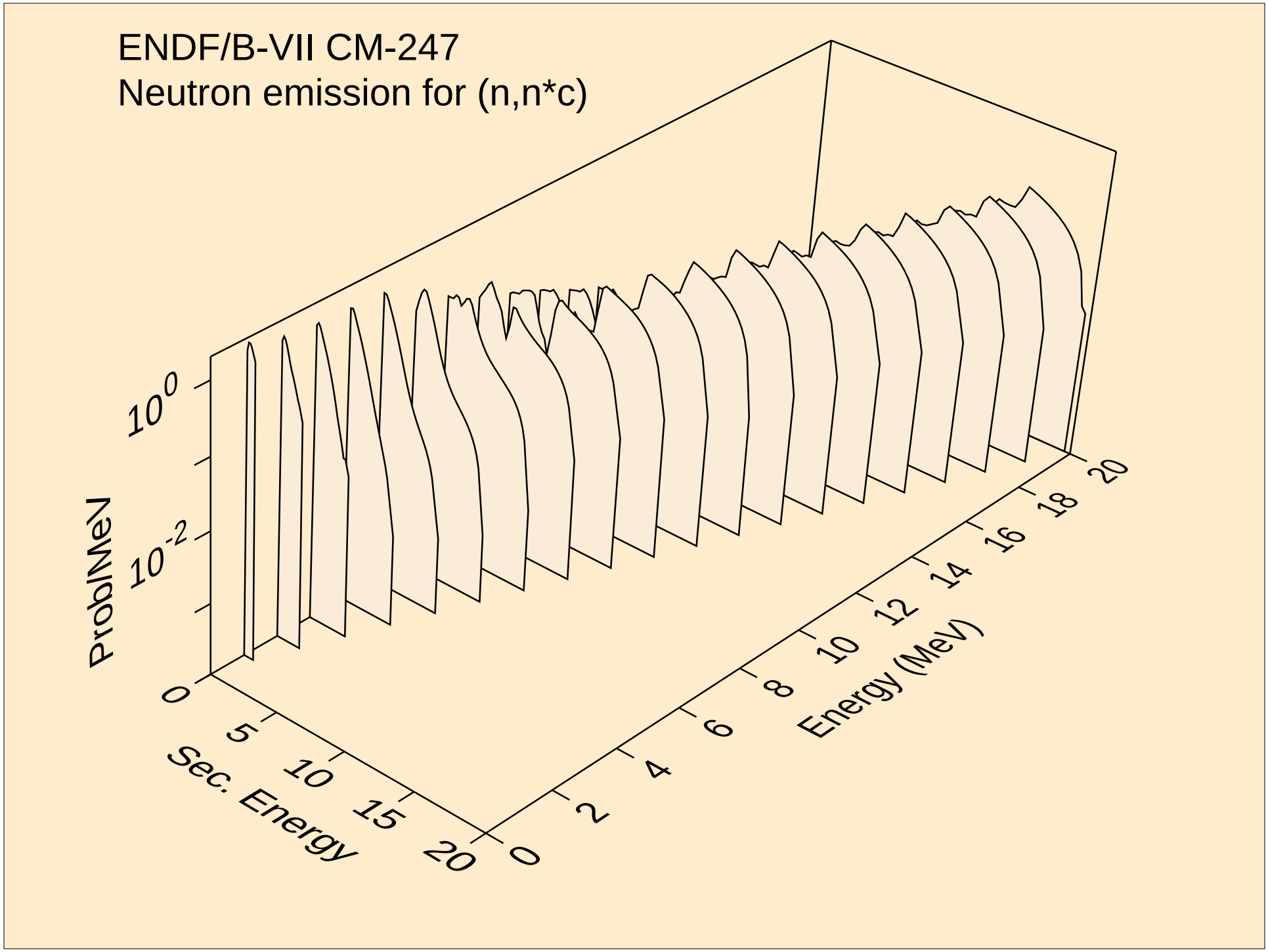

ENDF/B-VII CM-247
angular distribution for (n,n*c)
10^0
ProbCos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)


ENDF/B-VII CM-247
Total fission nubar
Fission nubar
8
7
6
5
4
3
0
5
10
15
20
Energy (MeV)


ENDF/B-VII CM-247
Neutron emission for (n,2n)
Prob/MeV
10^{-1}
10^{-3}
0
5
10
15
Sec. Energy
4
6
8
10
12
14
16
18
20
Energy (MeV)

ENDF/B-VII CM-247
Neutron emission for (n,3n)




ENDF/B-VII CM-247
Neutron emission for (n,n*c)
Prob/MeV
10^0
10^{-2}
0
5
10
15
20
Sec. Energy
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)