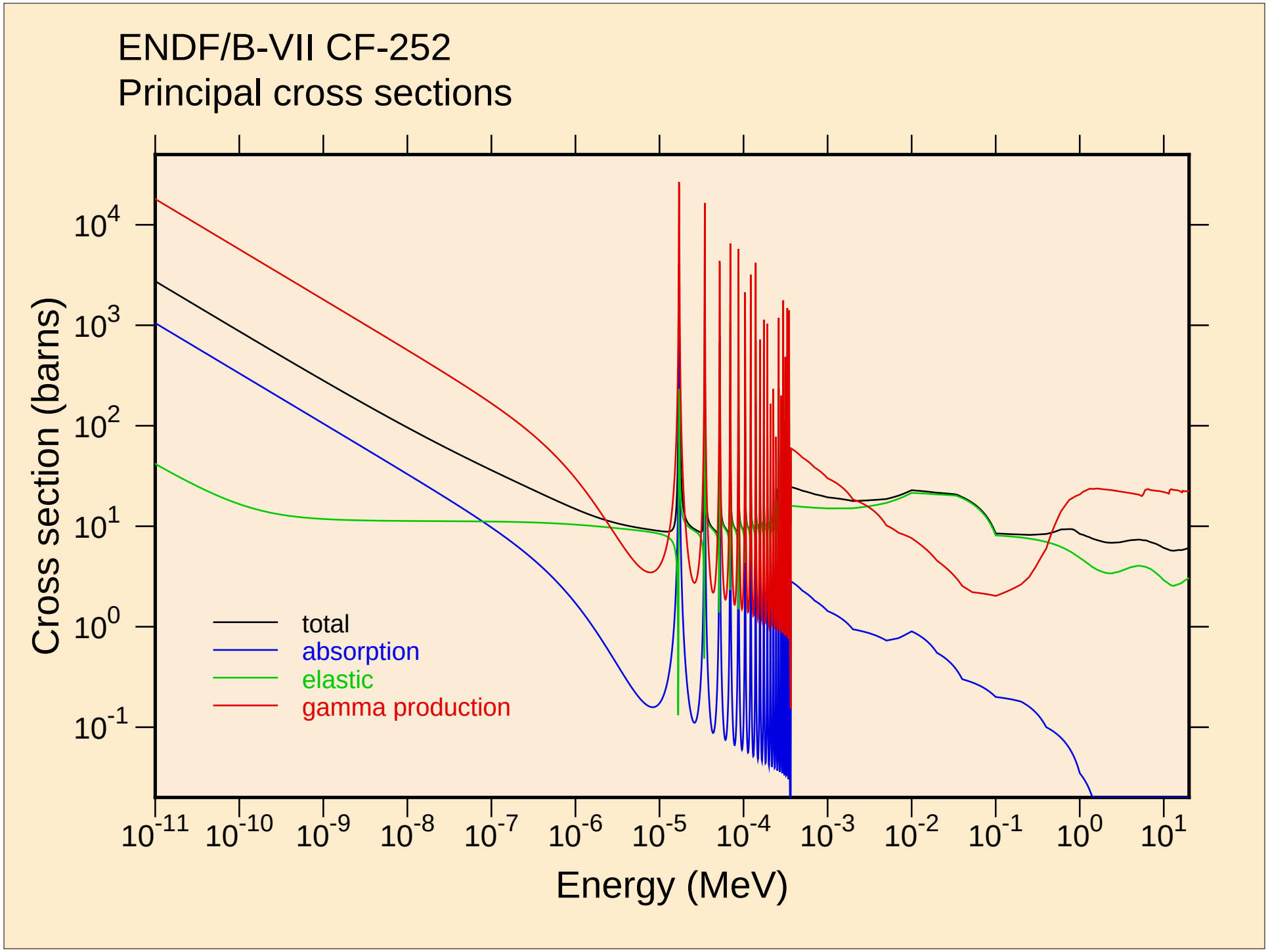
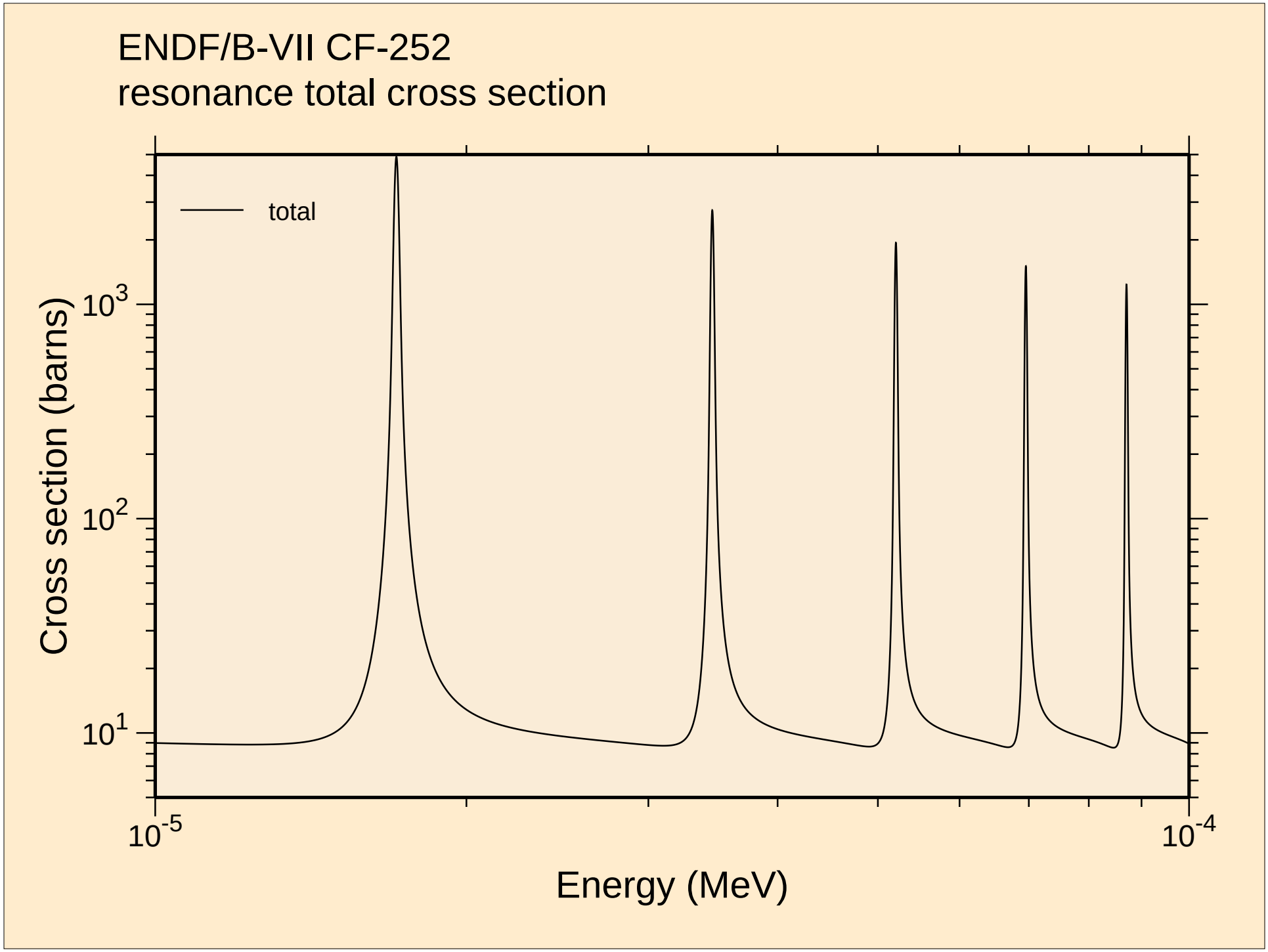
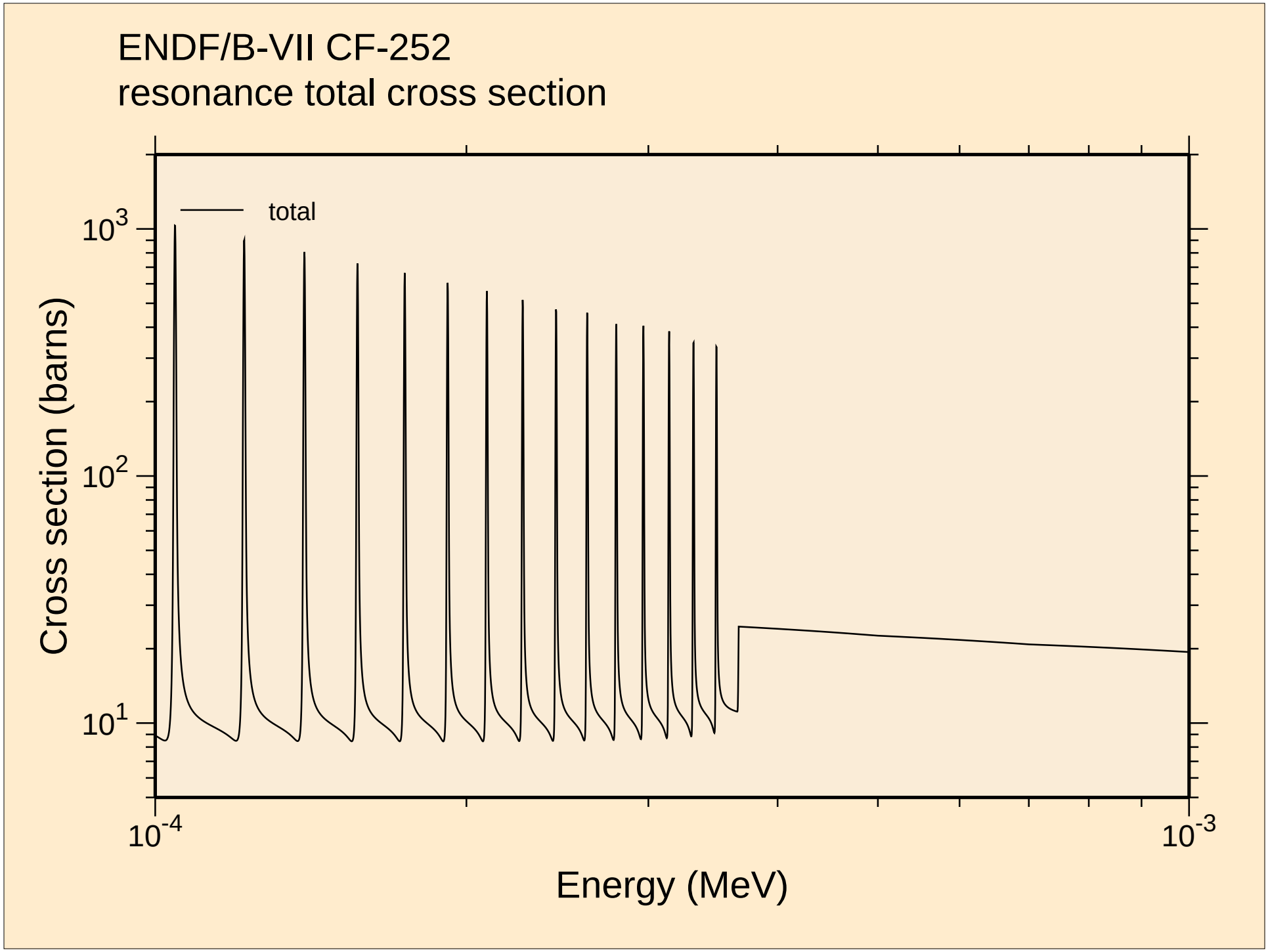
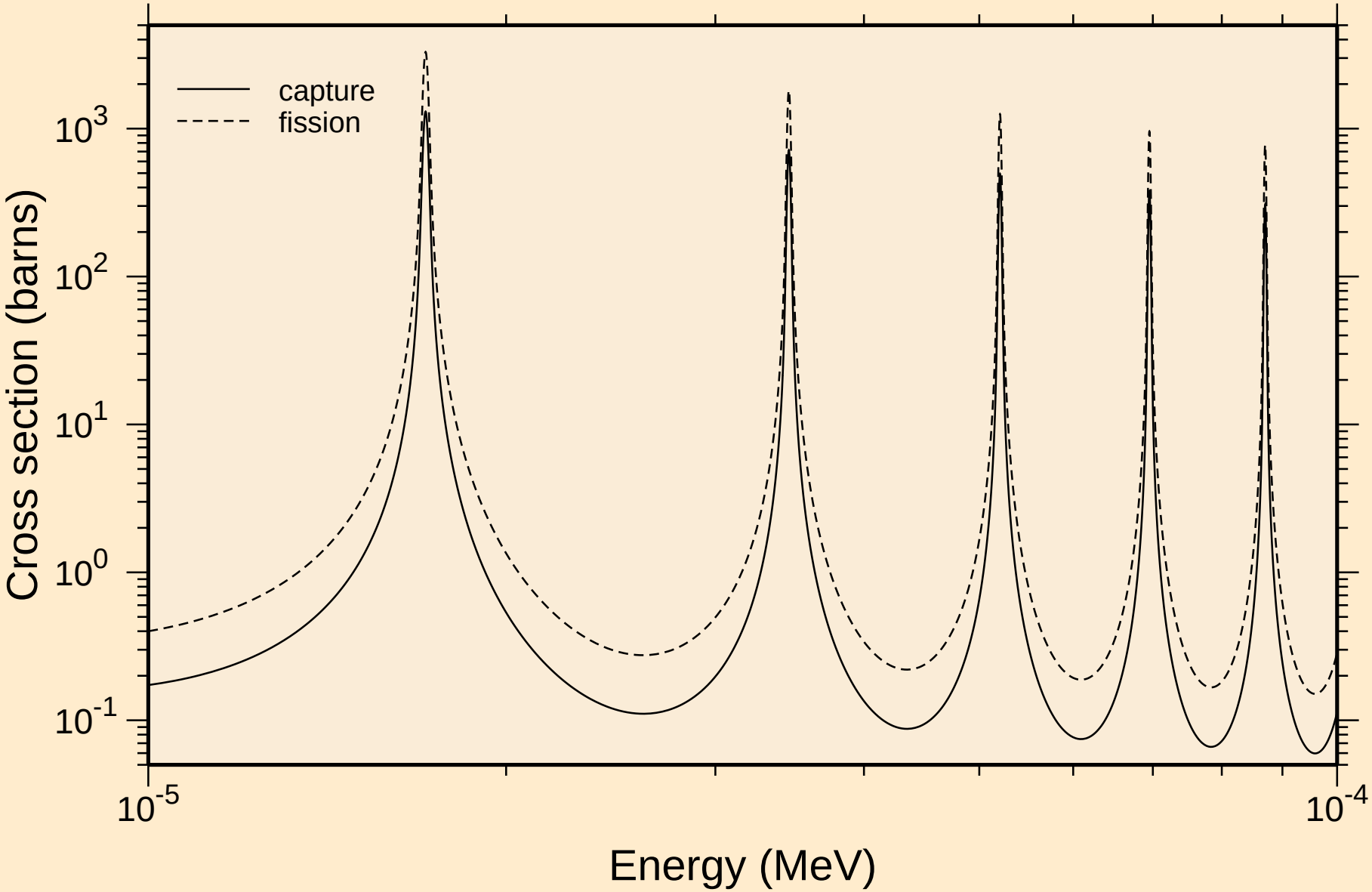

ENDF/B-VII CF-252
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
gamma production

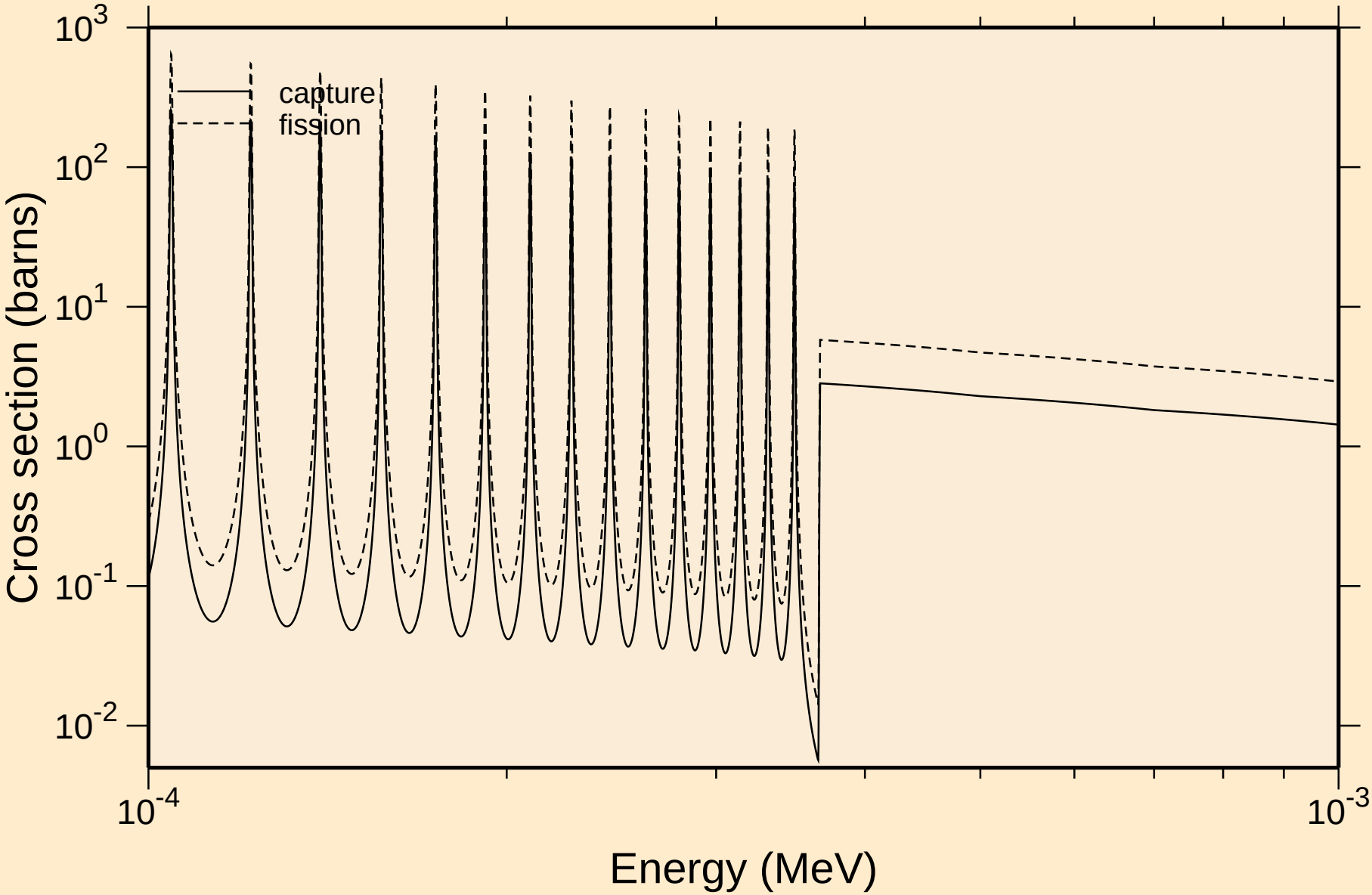

ENDF/B-VII CF-252
resonance total cross section
total
Cross section (barns)
10^3
10^2
10^1
10^{-5}
10^{-4}
Energy (MeV)

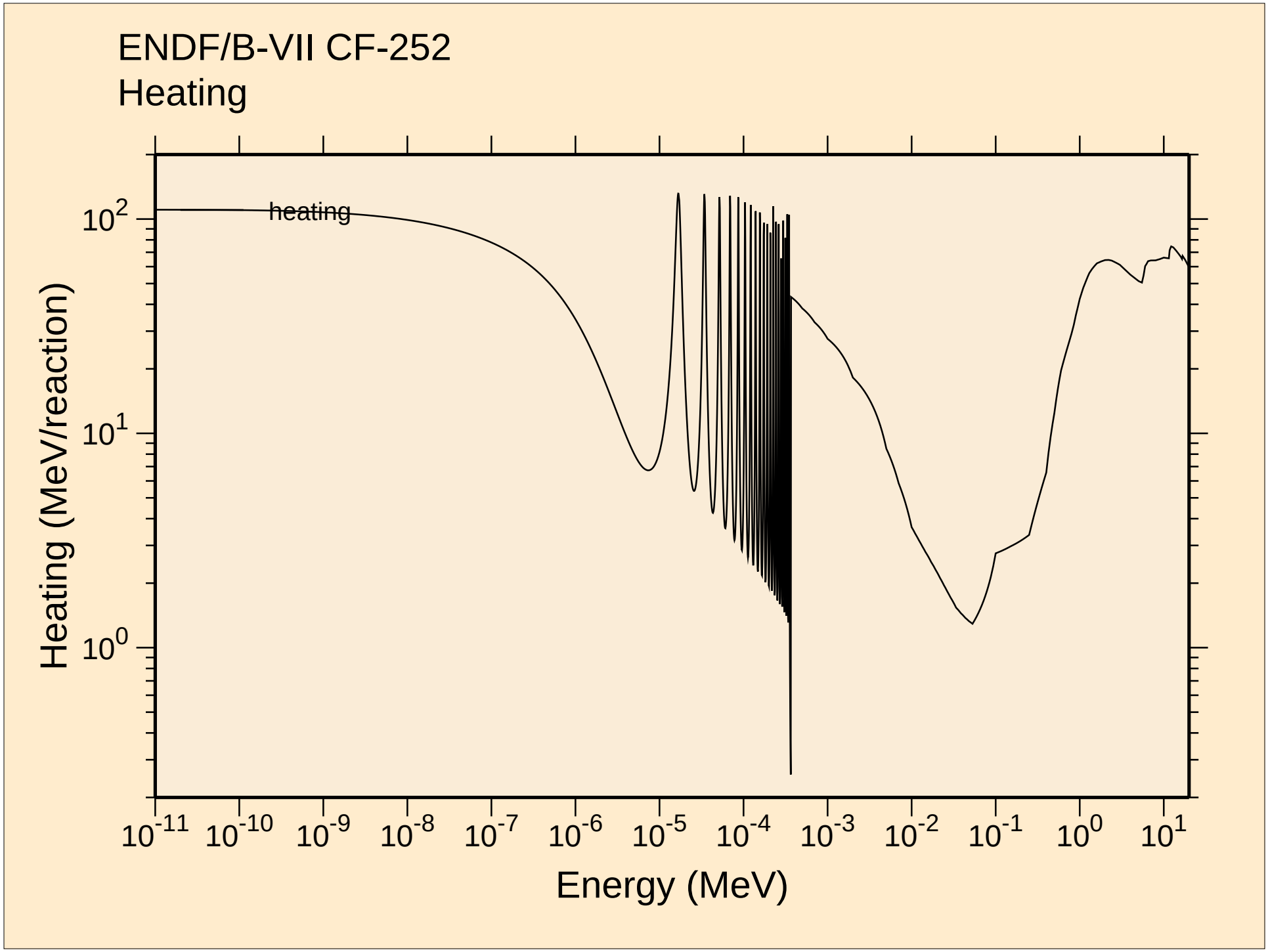

ENDF/B-VII CF-252
resonance total cross section
total
Cross section (barns)
10^3
10^2
10^1
10^{-4}
10^{-3}
Energy (MeV)

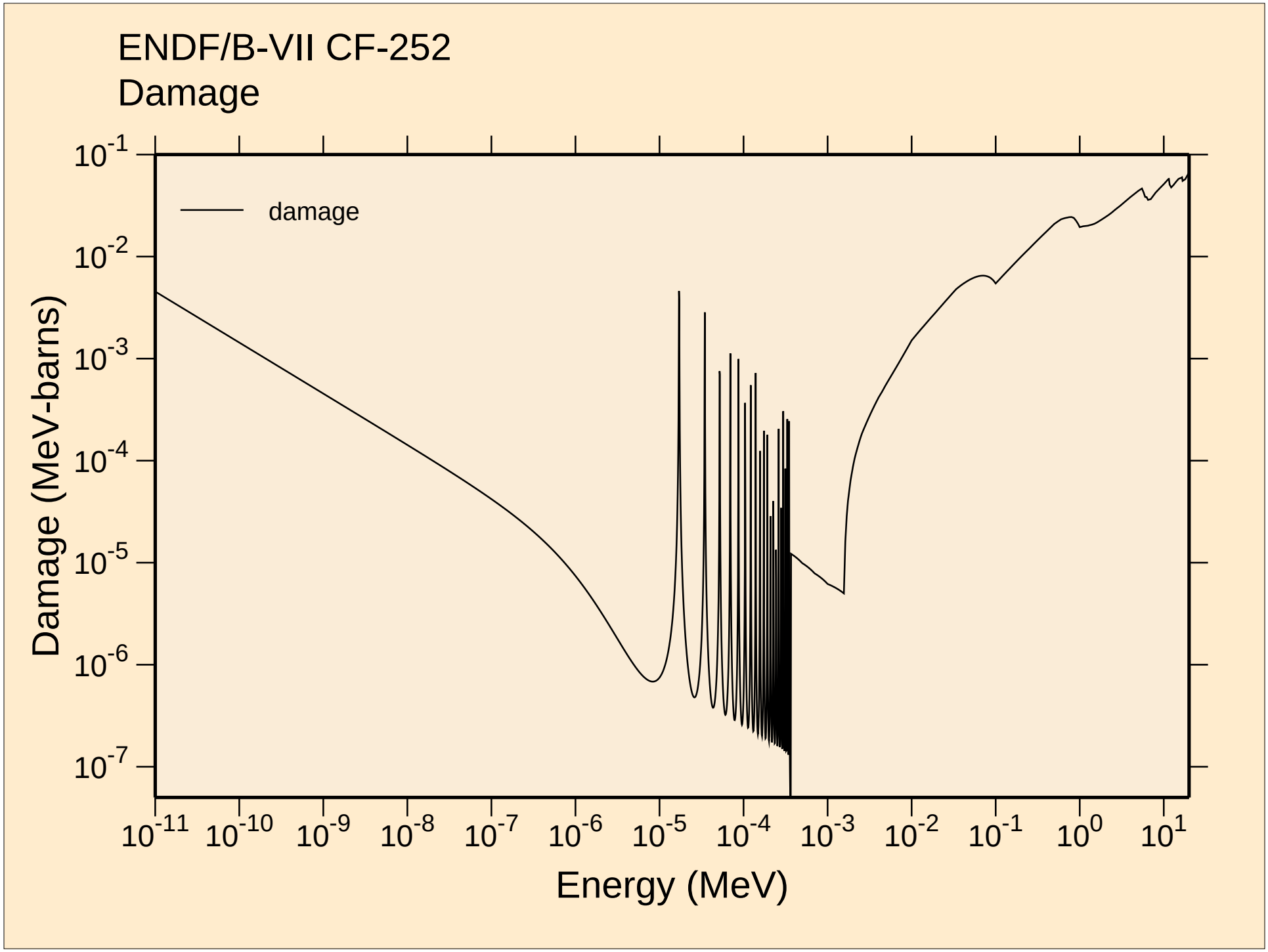
ENDF/B-VII CF-252
resonance absorption cross sections

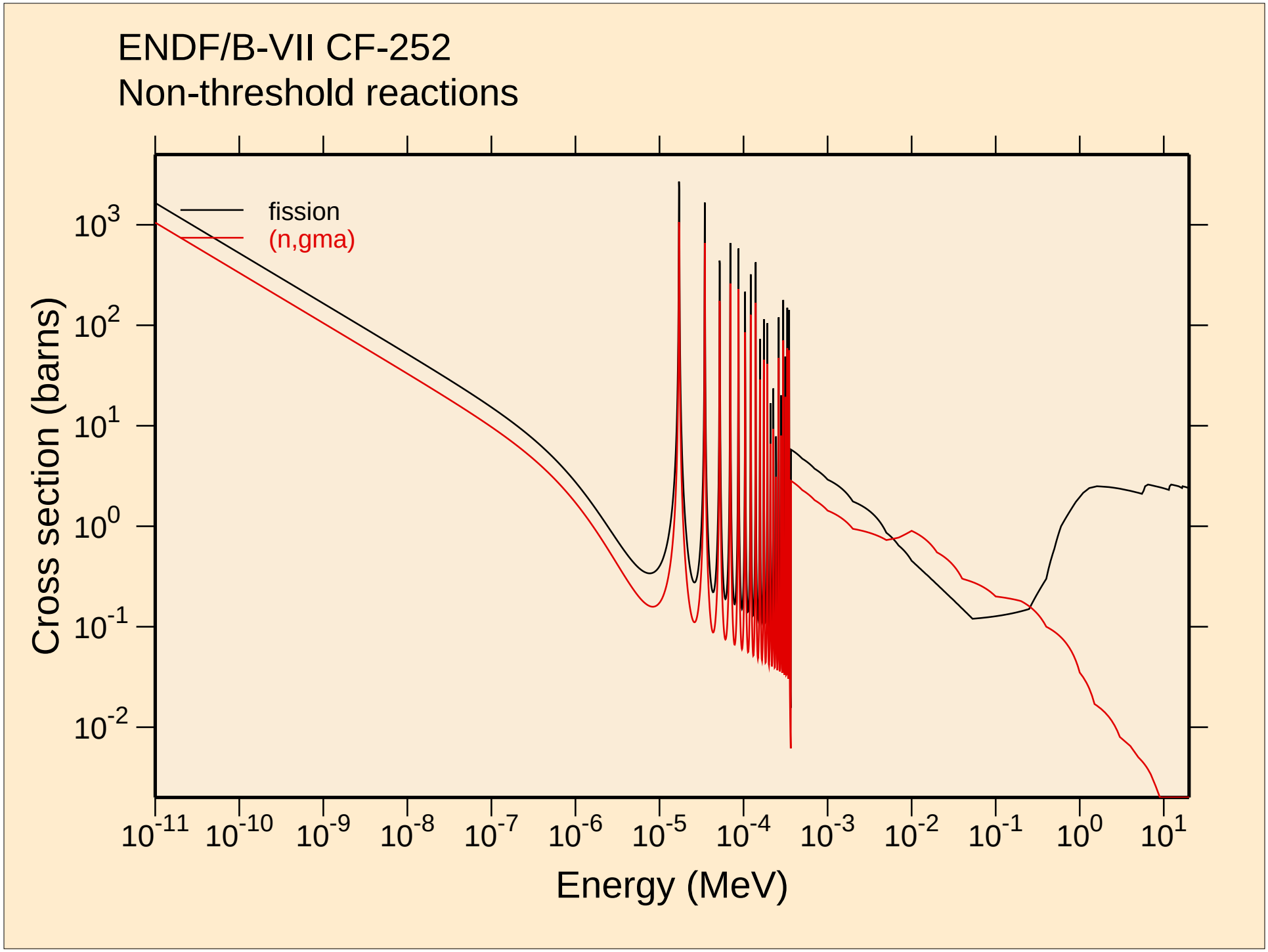


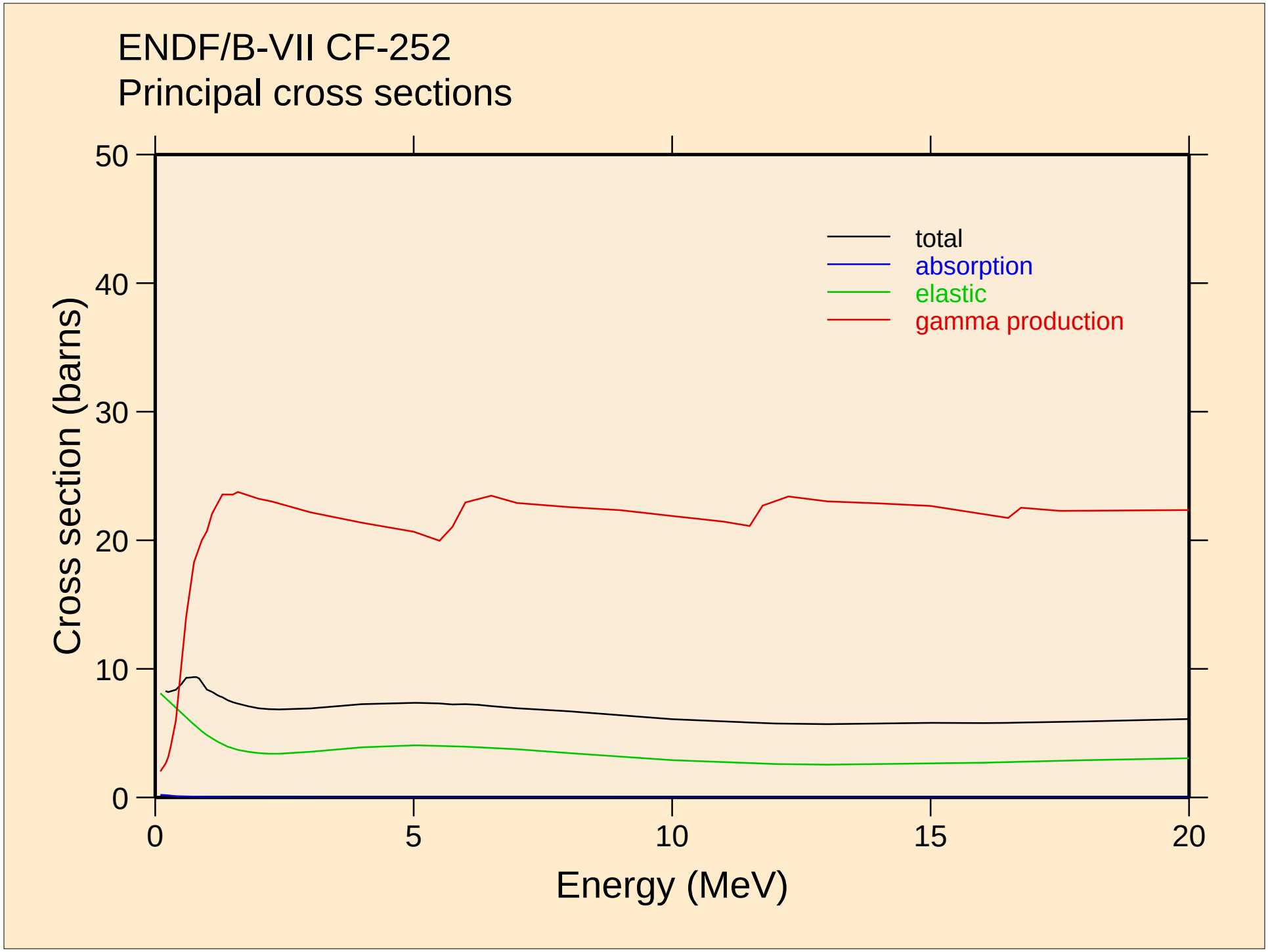
ENDF/B-VII CF-252
resonance absorption cross sections

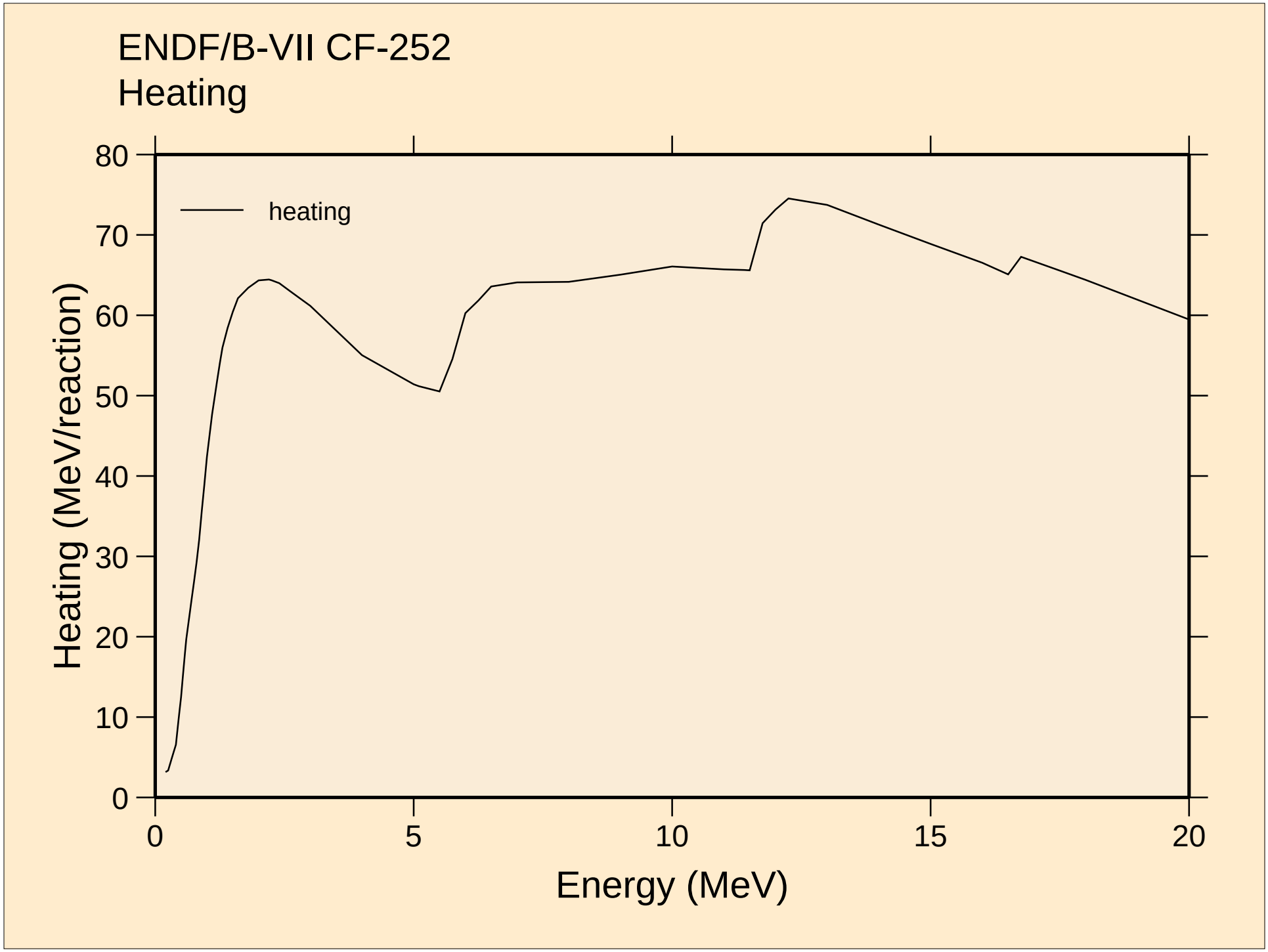


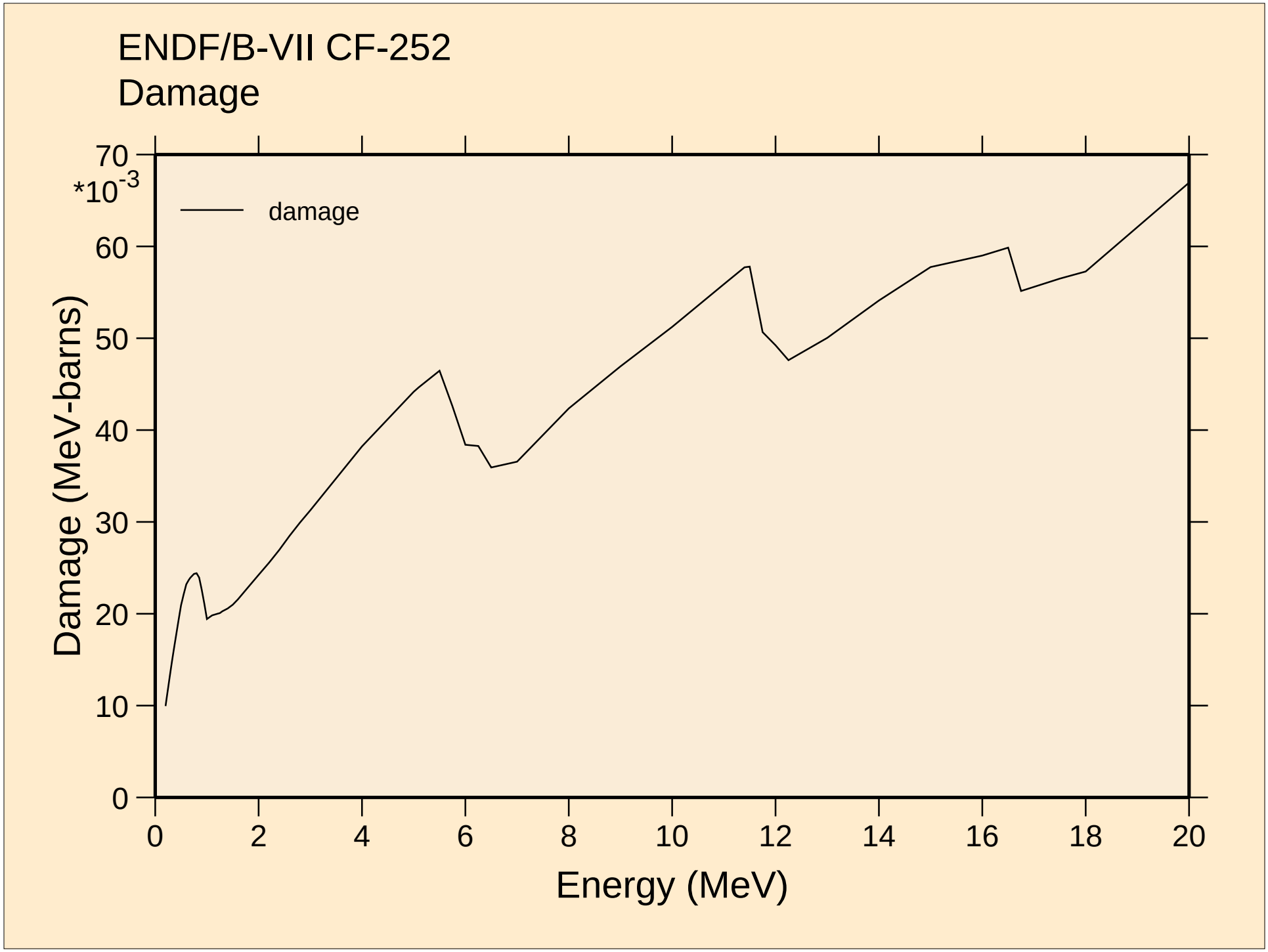

ENDF/B-VII CF-252
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
10^{2}
10^{1}
10^{0}
10^{-11} 10^{-10} 10^{-9} 10^{-8} 10^{-7} 10^{-6} 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1}

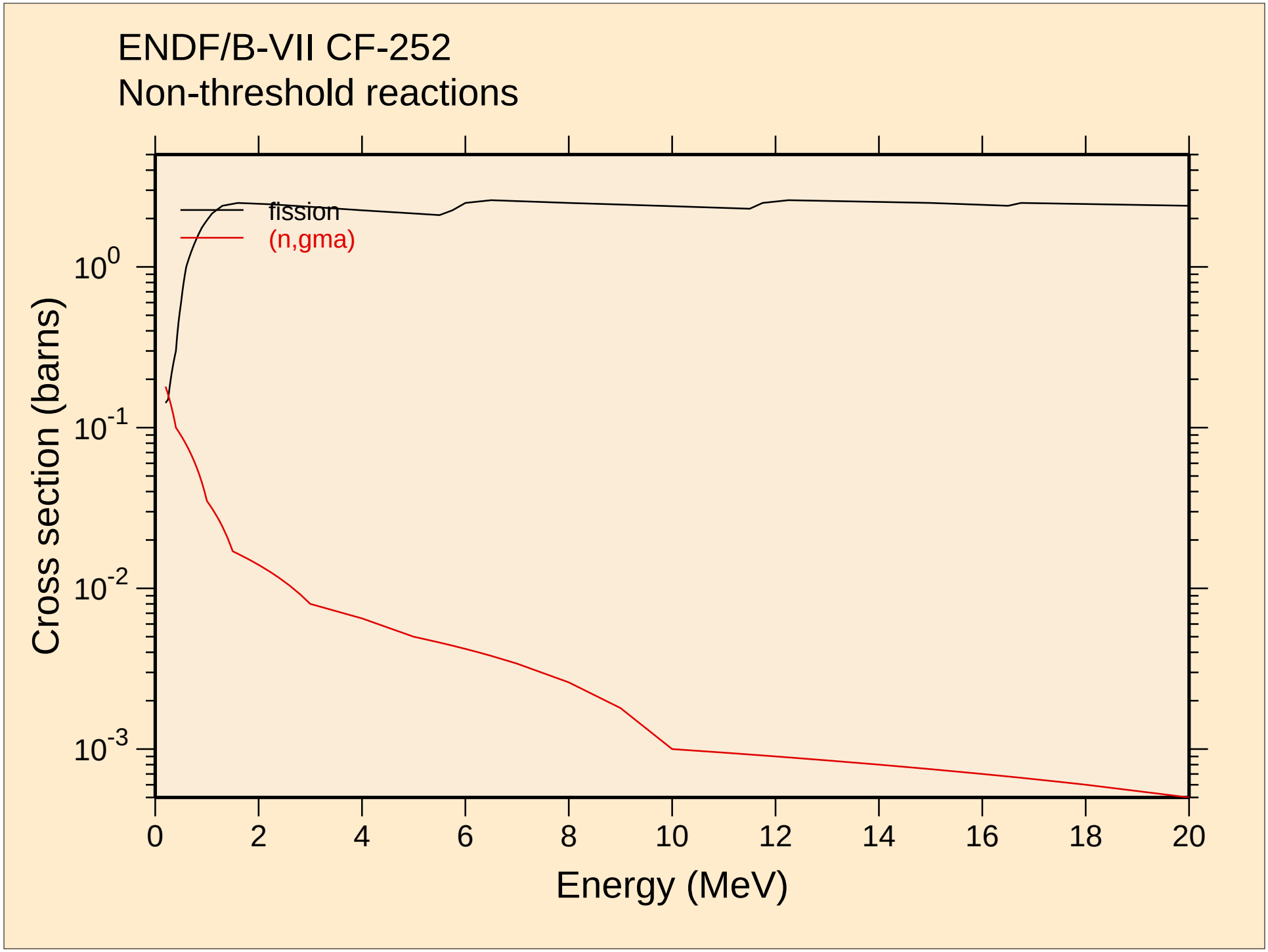

ENDF/B-VII CF-252
Damage
damage
Damage (MeV-barns)
Energy (MeV)
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
10^-7
10^-11
10^-10
10^-9
10^-8
10^-7
10^-6
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1

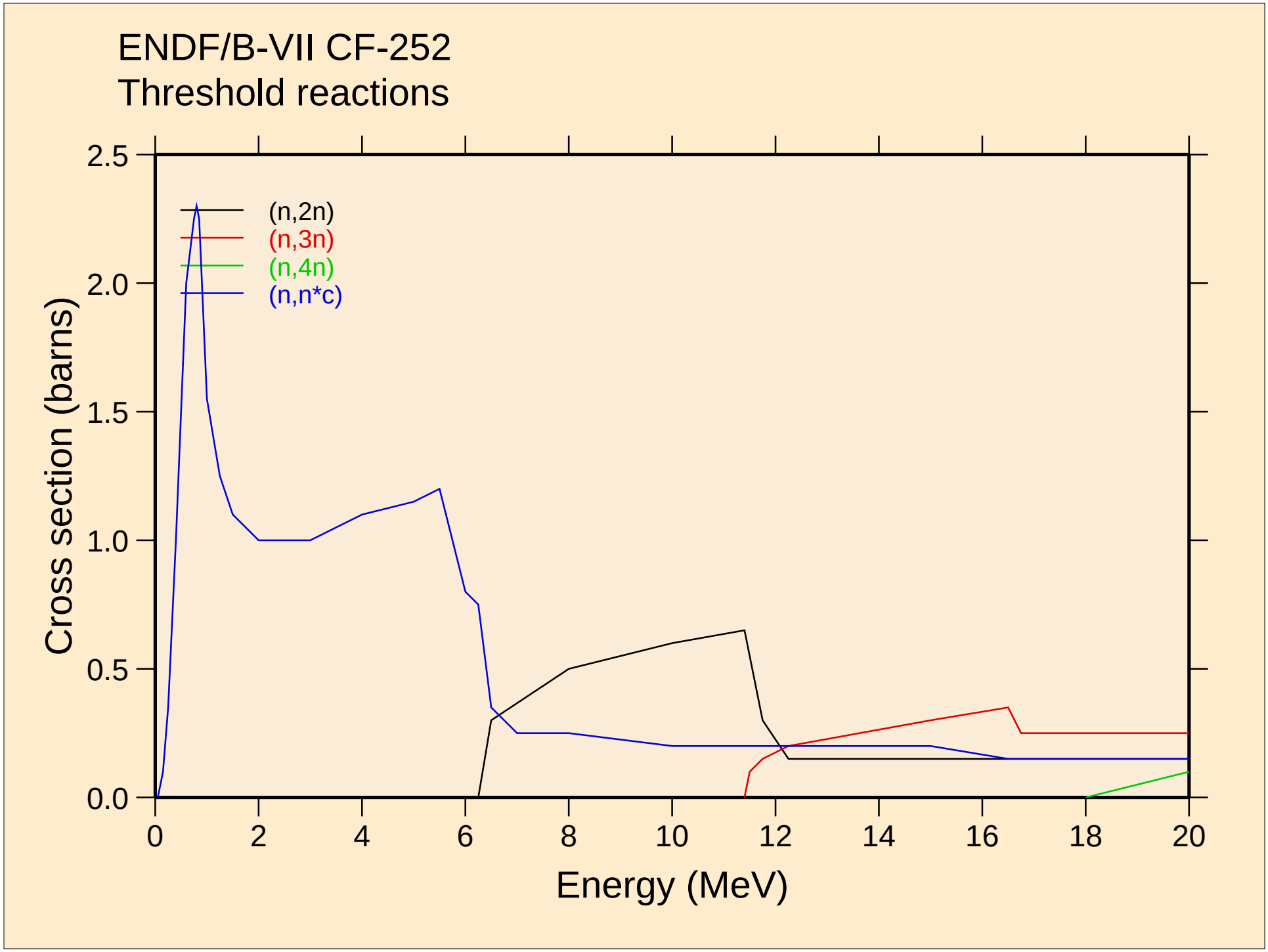

ENDF/B-VII CF-252
Non-threshold reactions
fission
(n,gma)
Cross section (barns)
Energy (MeV)
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-11
10^-10
10^-9
10^-8
10^-7
10^-6
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1

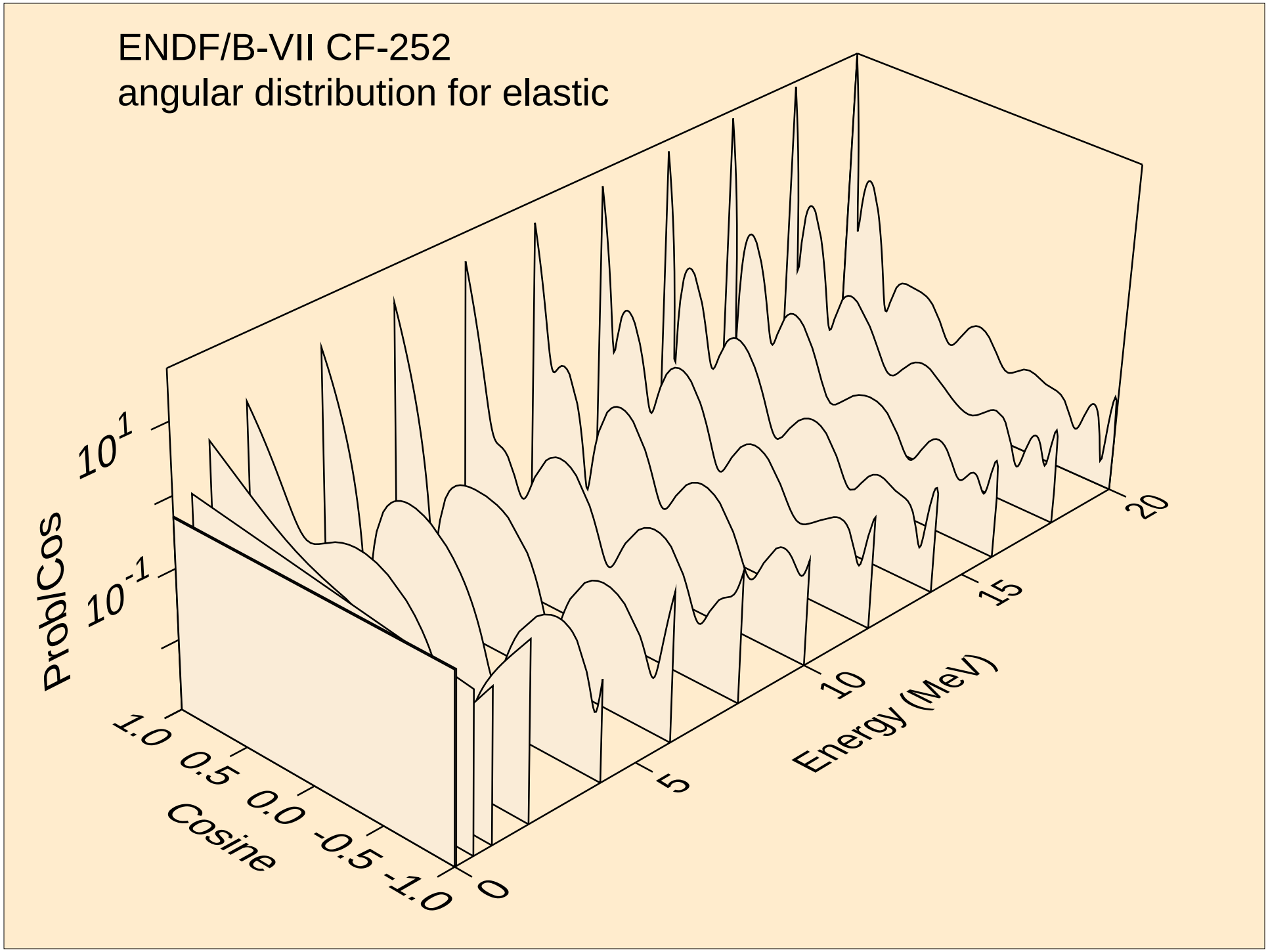

ENDF/B-VII CF-252
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
gamma production
0
10
20
30
40
50
0
5
10
15
20

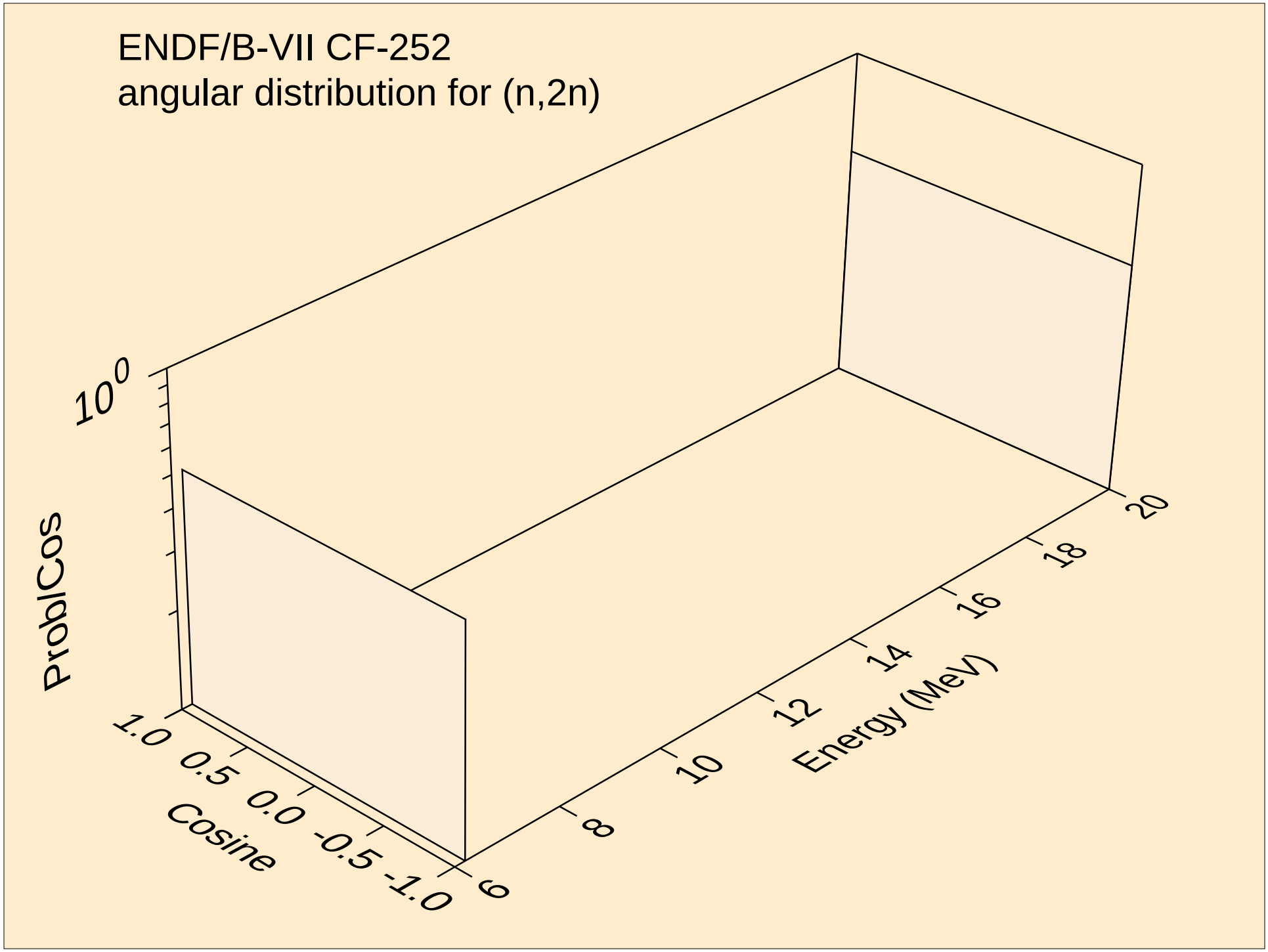

ENDF/B-VII CF-252
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
10
20
30
40
50
60
70
80
0
5
10
15
20

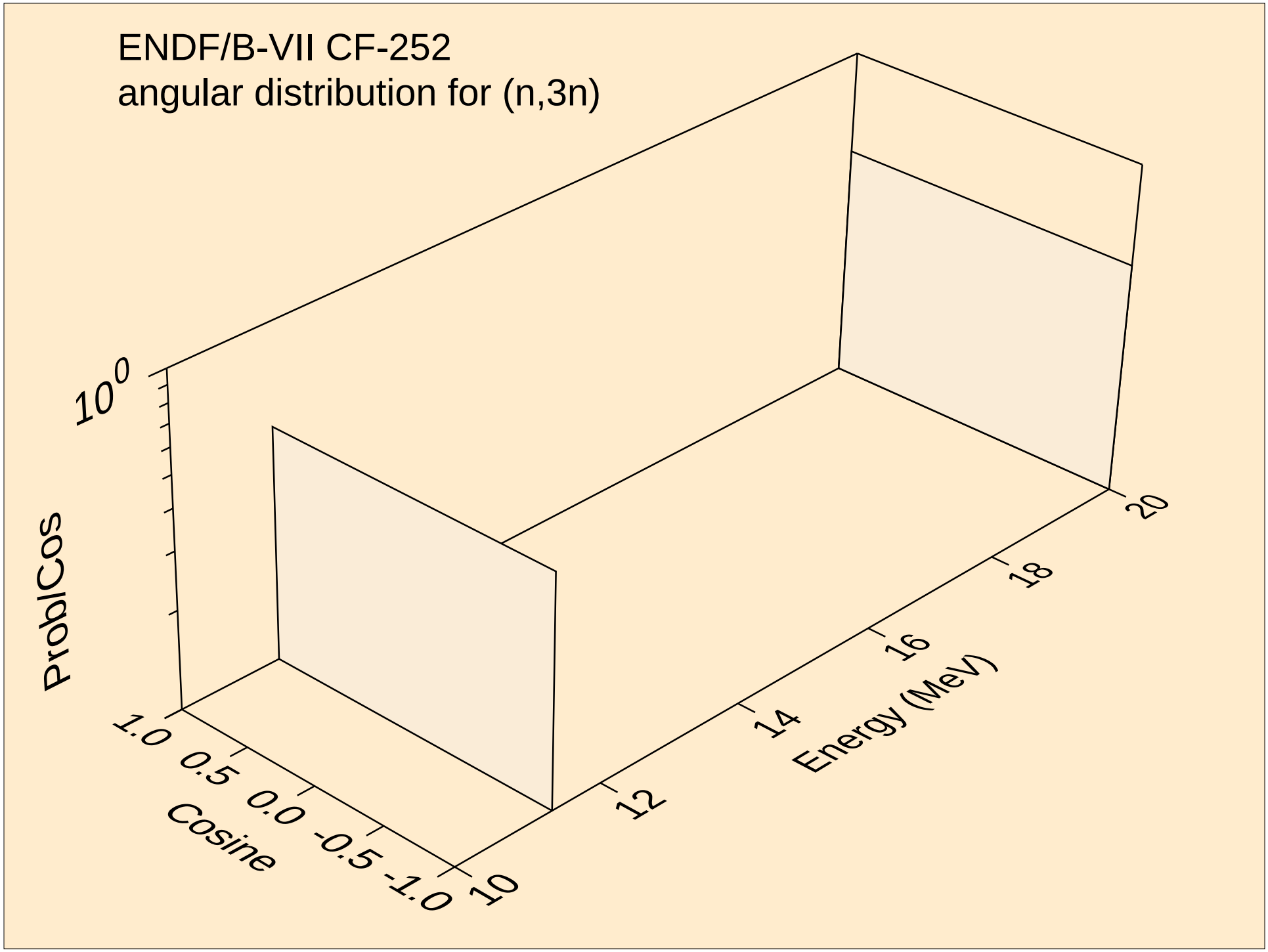

ENDF/B-VII CF-252
Damage
damage
*10^-3
Damage (MeV-barns)
Energy (MeV)
0
10
20
30
40
50
60
70
0
2
4
6
8
10
12
14
16
18
20

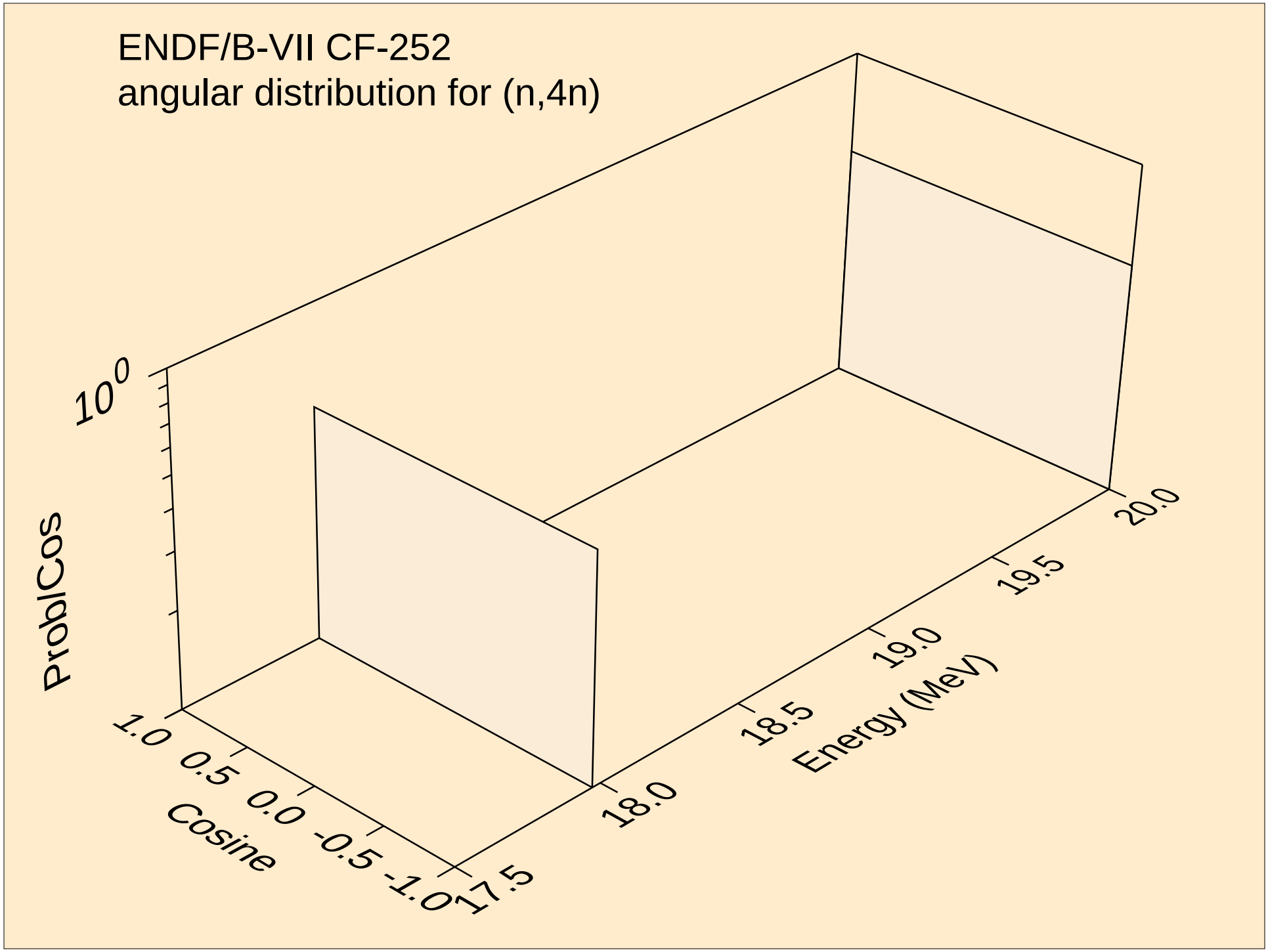

ENDF/B-VII CF-252
Non-threshold reactions
fission
(n,gma)
Cross section (barns)
10^{0}
10^{-1}
10^{-2}
10^{-3}
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

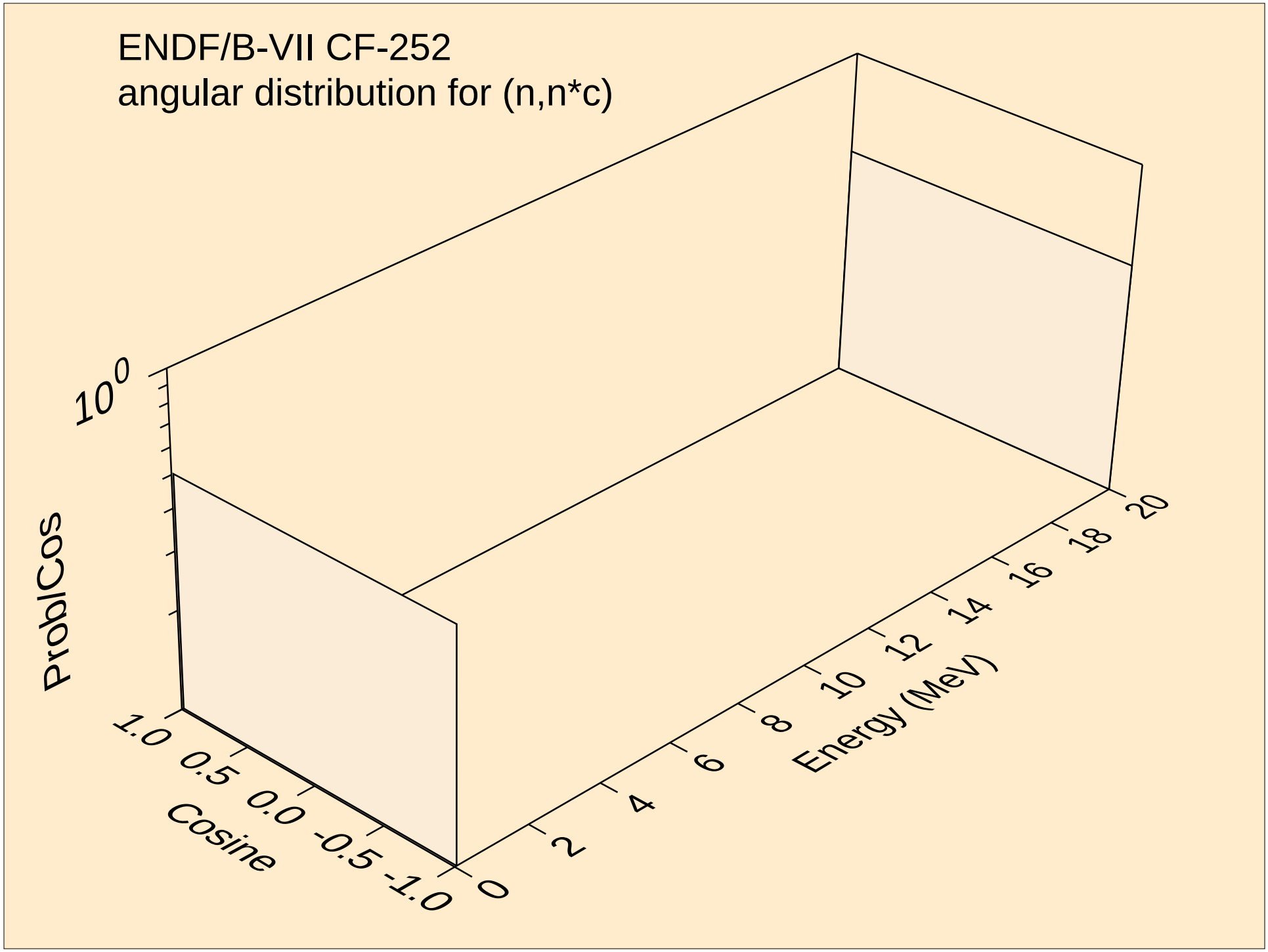

ENDF/B-VII CF-252
Threshold reactions
(n,2n)
(n,3n)
(n,4n)
(n,n*c)
Cross section (barns)
Energy (MeV)
0.0
0.5
1.0
1.5
2.0
2.5
0
2
4
6
8
10
12
14
16
18
20

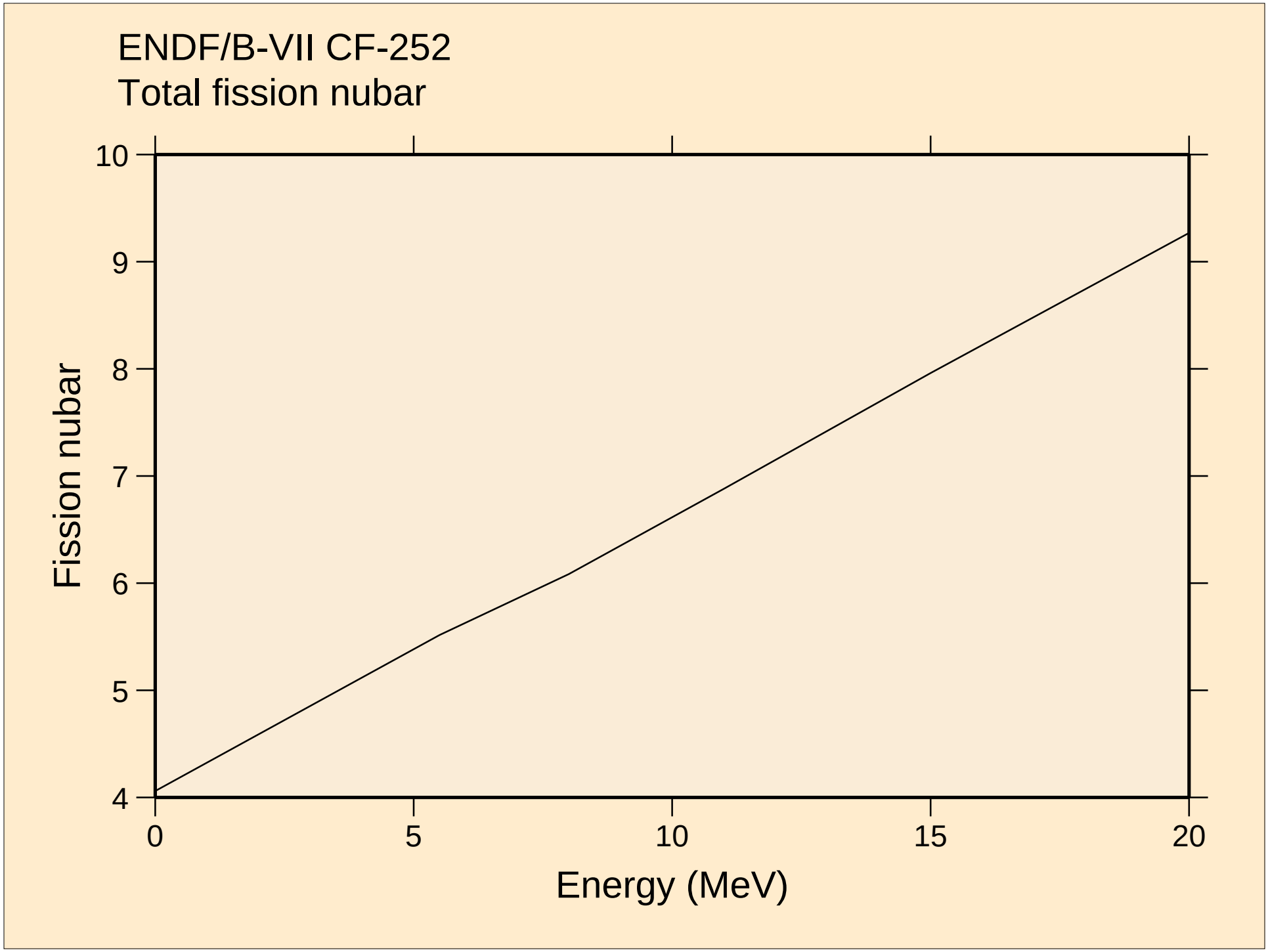

ENDF/B-VII CF-252
angular distribution for elastic
ProbCos
10^{1}
10^{-1}
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
0
5
10
15
20

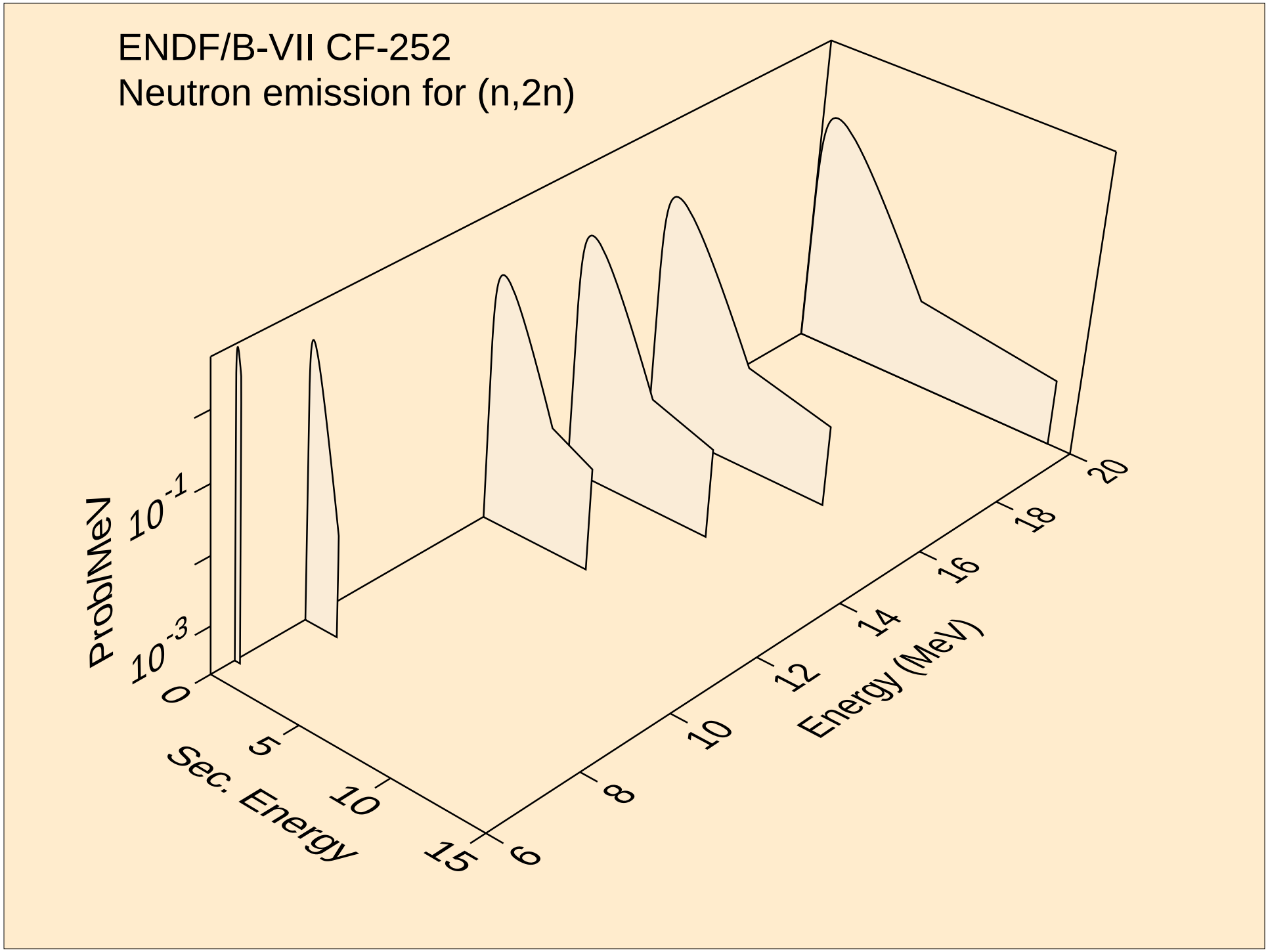

ENDF/B-VII CF-252
angular distribution for (n,2n)
10^0
ProblCos
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

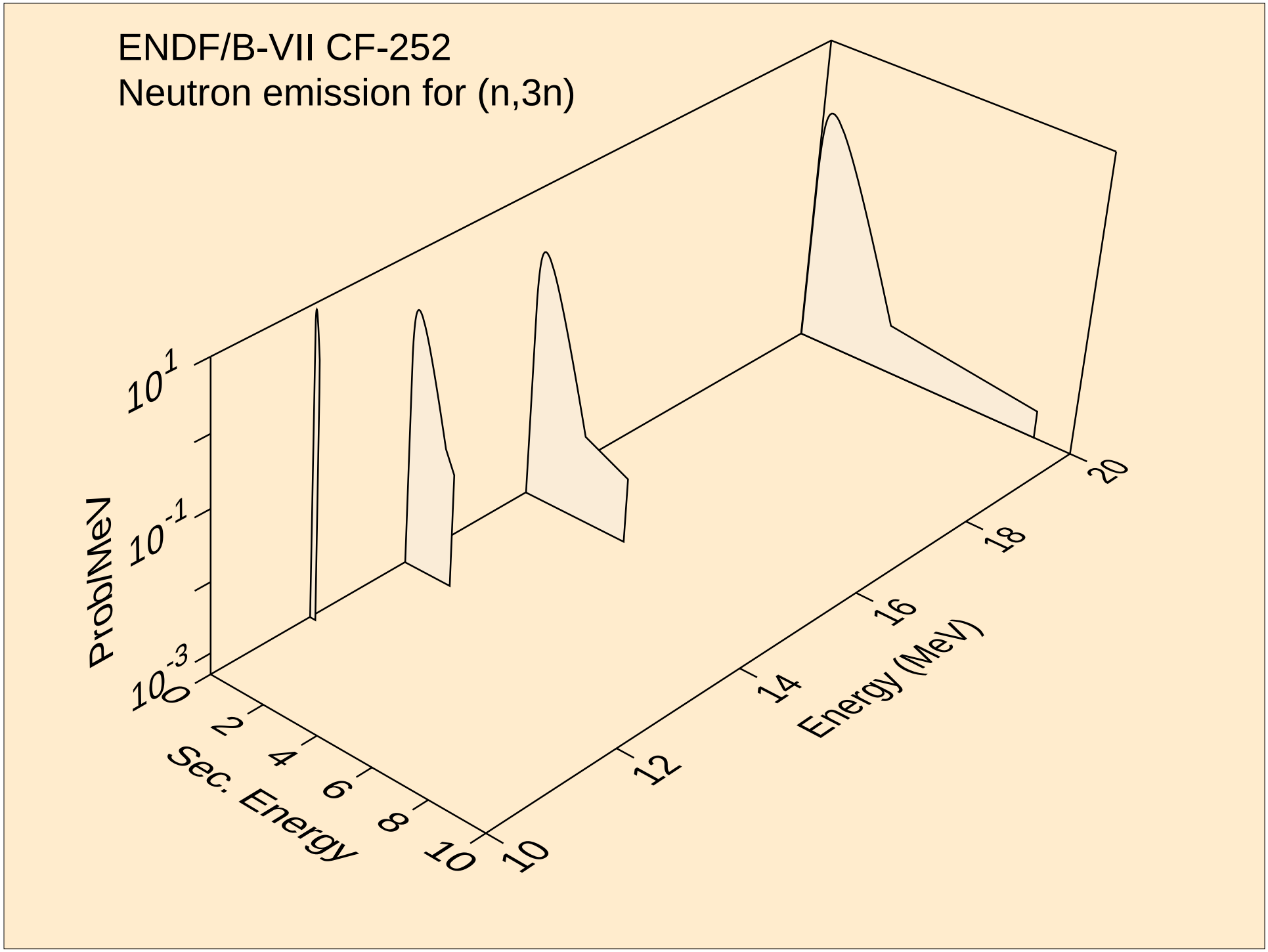

ENDF/B-VII CF-252
angular distribution for (n,3n)
10^0
ProblCos
1.0
0.5
0.0
-0.5
-1.0
Cosine
10
12
14
16
18
20
Energy (MeV)

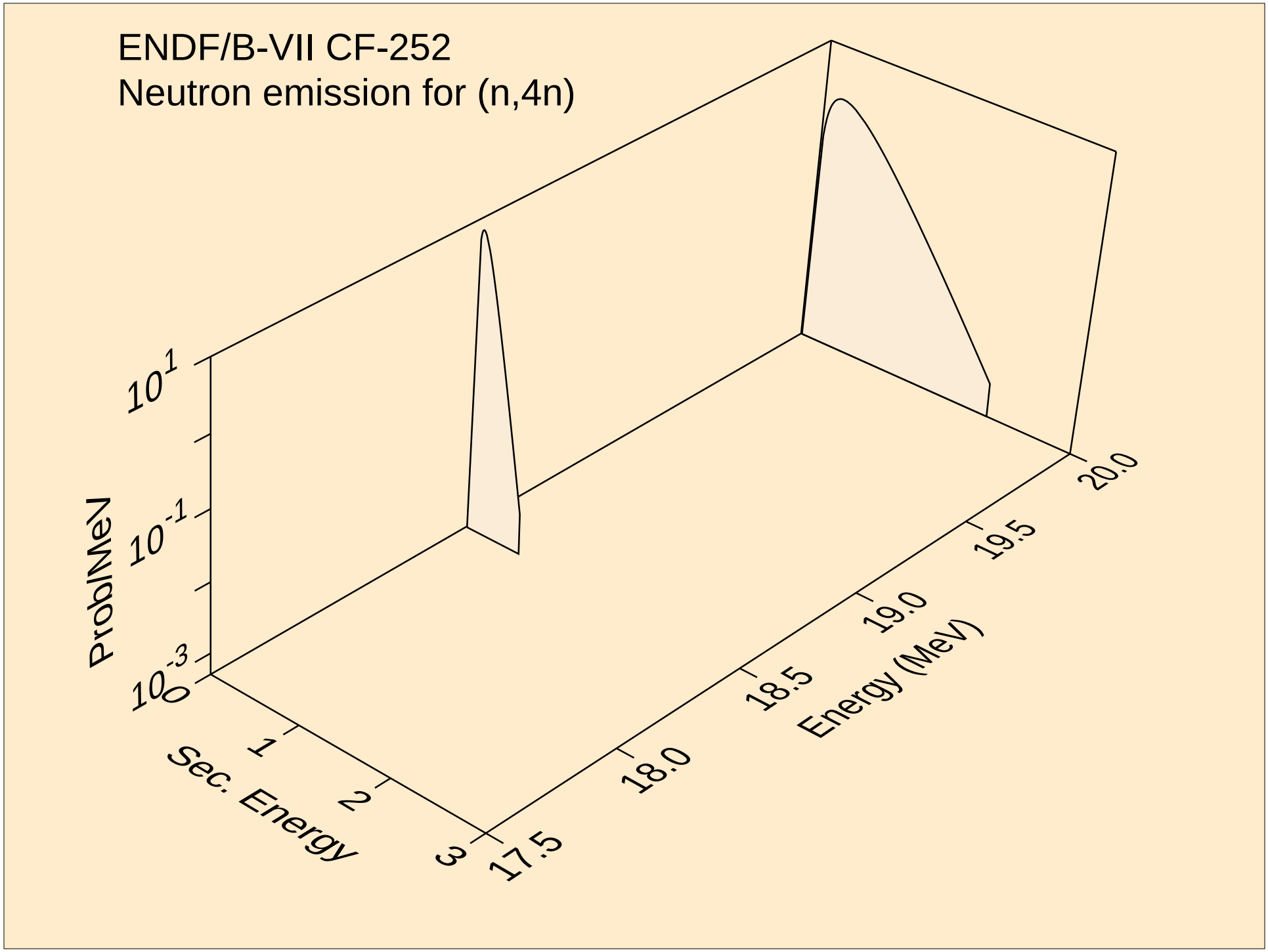

ENDF/B-VII CF-252
angular distribution for (n,4n)
10^0
ProblCos
1.0
0.5
0.0
-0.5
-1.0
Cosine
17.5
18.0
18.5
19.0
19.5
20.0
Energy (MeV)

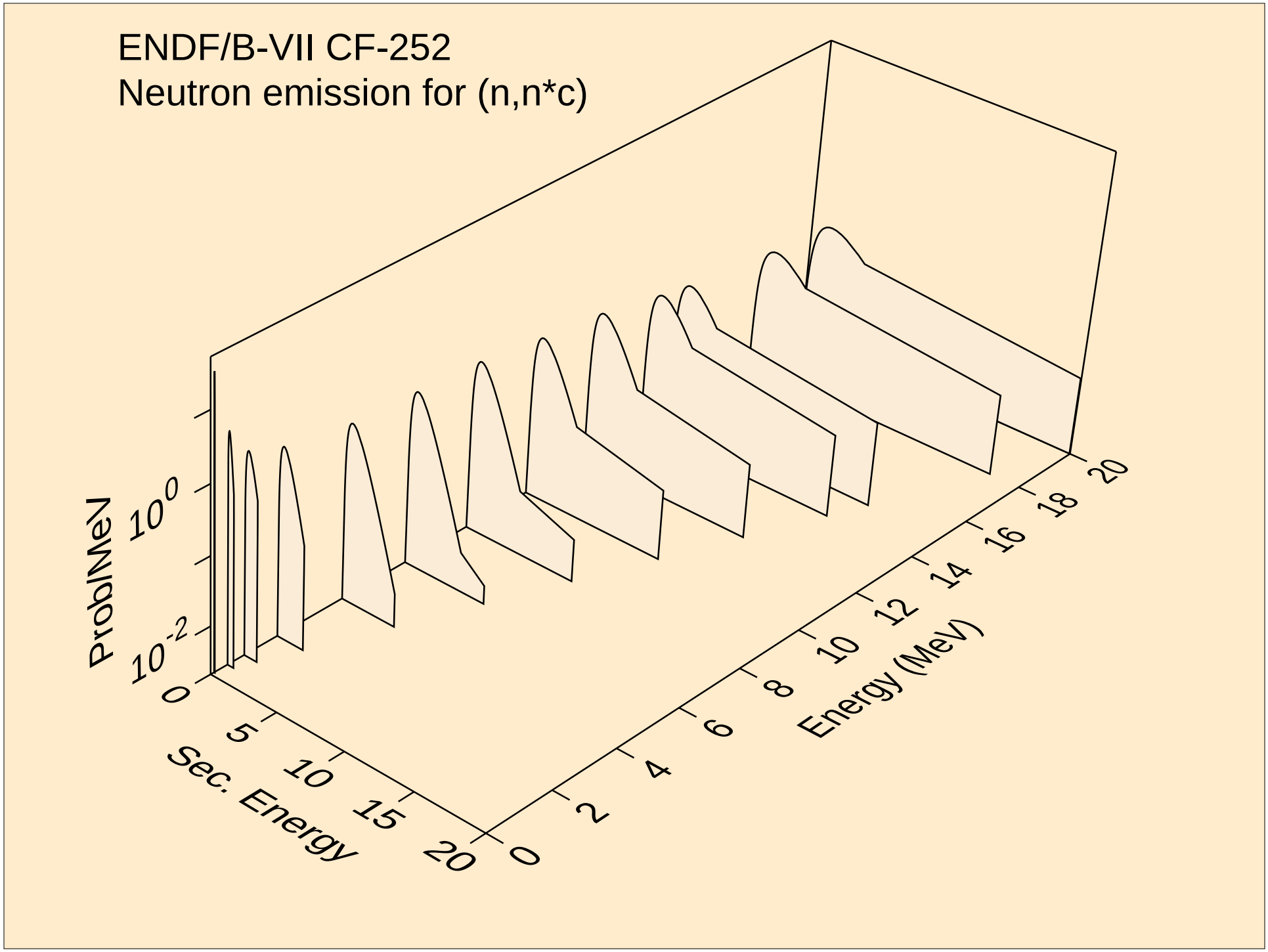

ENDF/B-VII CF-252
angular distribution for (n,n*c)
10^0
ProbCos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)


ENDF/B-VII CF-252
Total fission nubar
Fission nubar
10
9
8
7
6
5
4
0
5
10
15
20
Energy (MeV)

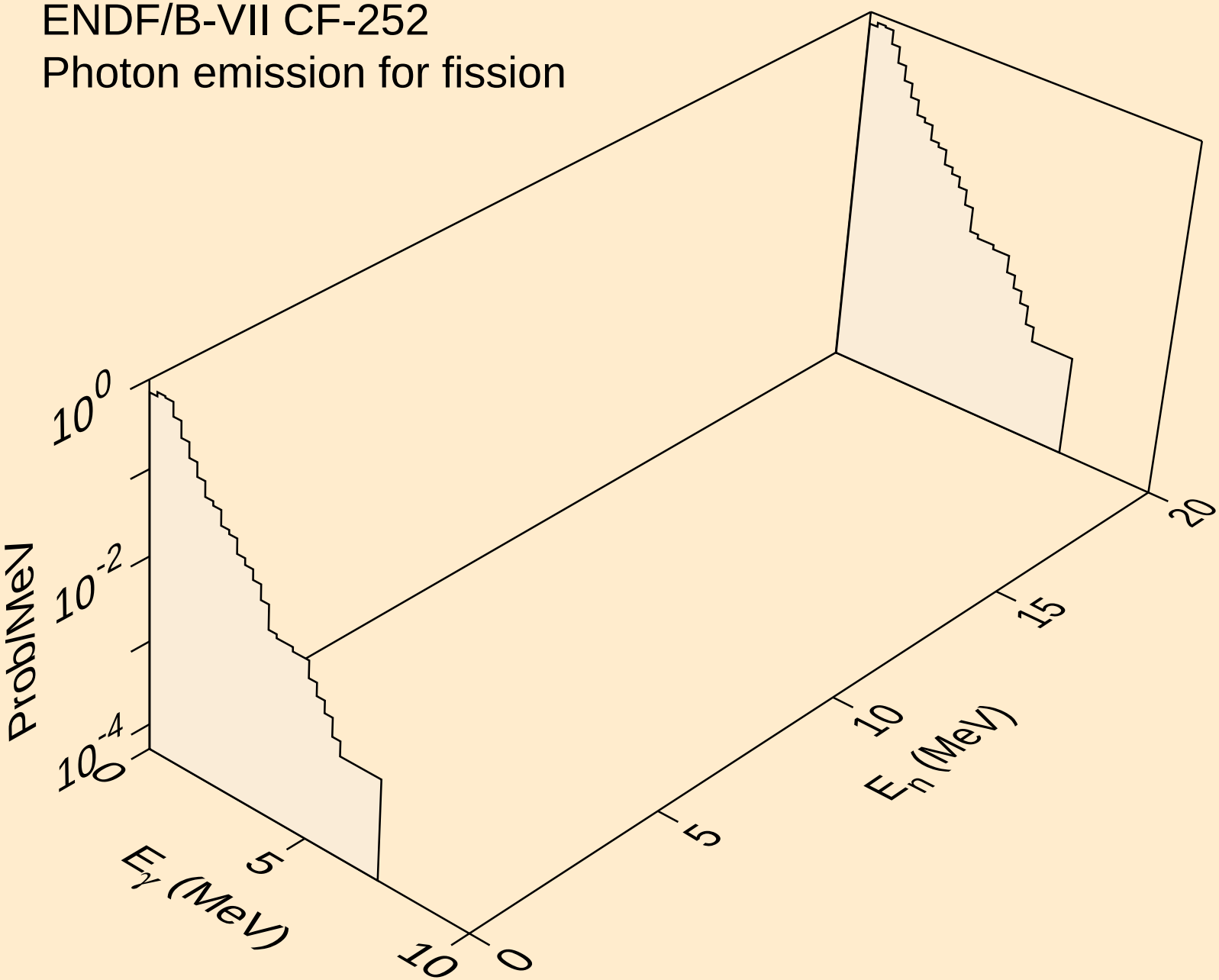

ENDF/B-VII CF-252
Neutron emission for (n,2n)
Prob/MeV
10^{-1}
10^{-3}
0
5
10
15
Sec. Energy
6
8
10
12
14
16
18
20
Energy (MeV)

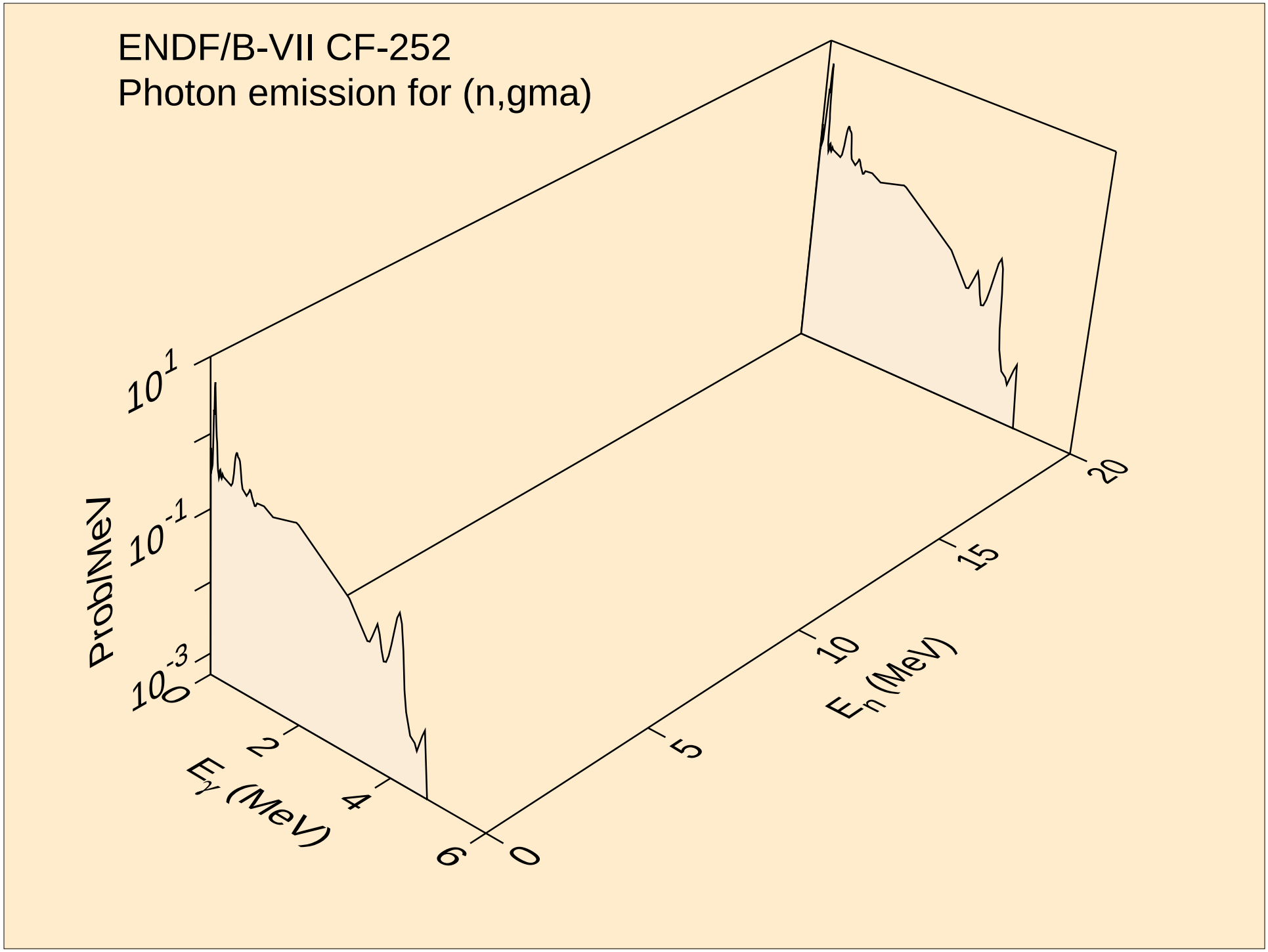

ENDF/B-VII CF-252
Neutron emission for (n,3n)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
Sec. Energy
0
2
4
6
8
10
Energy (MeV)
10
12
14
16
18
20


ENDF/B-VII CF-252
Neutron emission for (n,4n)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
1
2
3
Sec. Energy
17.5
18.0
18.5
19.0
19.5
20.0
Energy (MeV)

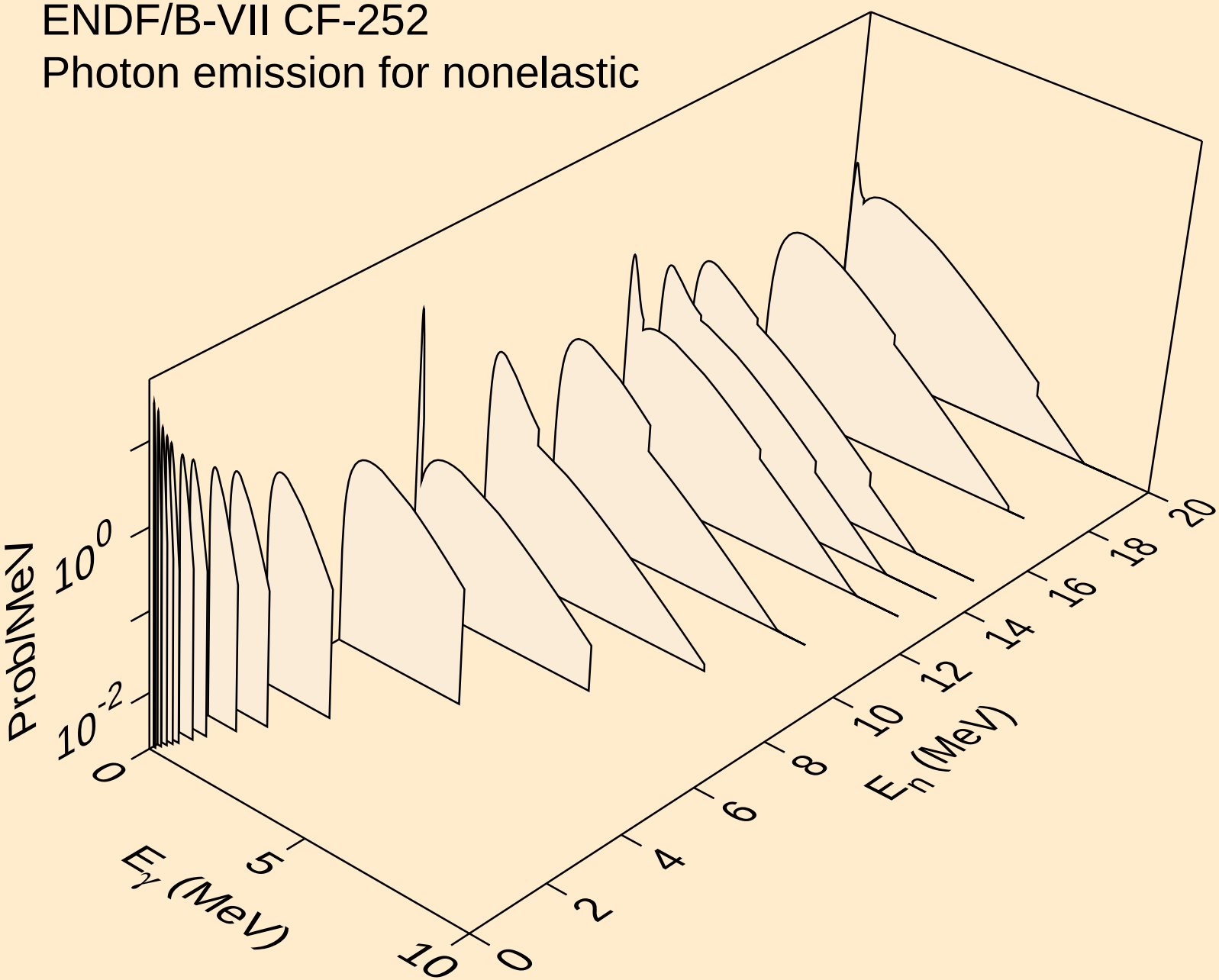

ENDF/B-VII CF-252
Neutron emission for (n,n*c)
Prob/MeV
10^{0}
10^{-2}
0
5
10
15
20
Sec. Energy
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

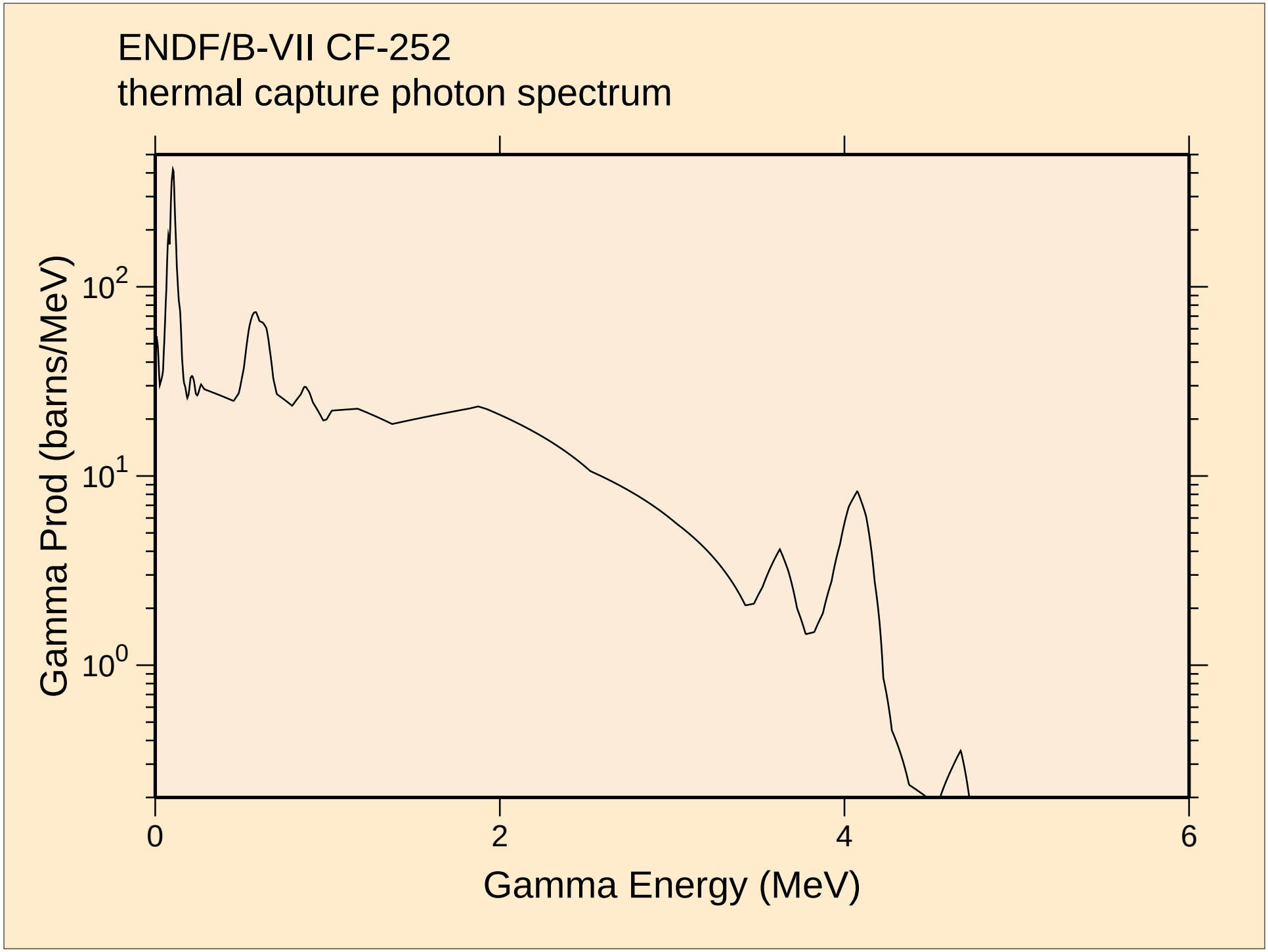
ENDF/B-VII CF-252
Photon emission for fission

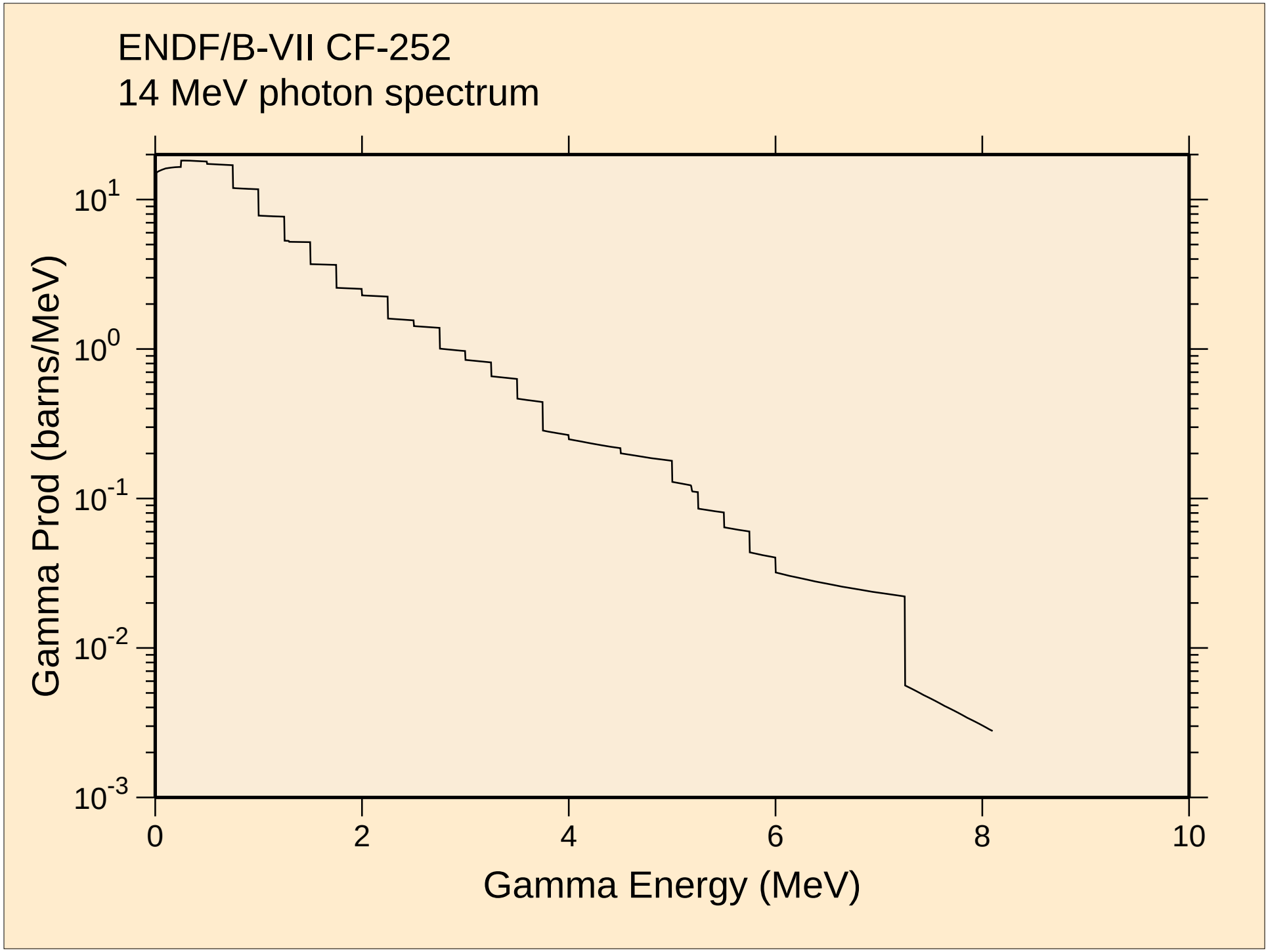



ENDF/B-VII CF-252
Photon emission for (n,gma)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
2
4
6
E_γ (MeV)
0
5
10
15
20
E_n (MeV)

ENDF/B-VII CF-252
Photon emission for nonelastic




ENDF/B-VII CF-252
thermal capture photon spectrum
Gamma Prod (barns/MeV)
10^2
10^1
10^0
0
2
4
6
Gamma Energy (MeV)


ENDF/B-VII CF-252
14 MeV photon spectrum
Gamma Prod (barns/MeV)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0
2
4
6
8
10
Gamma Energy (MeV)