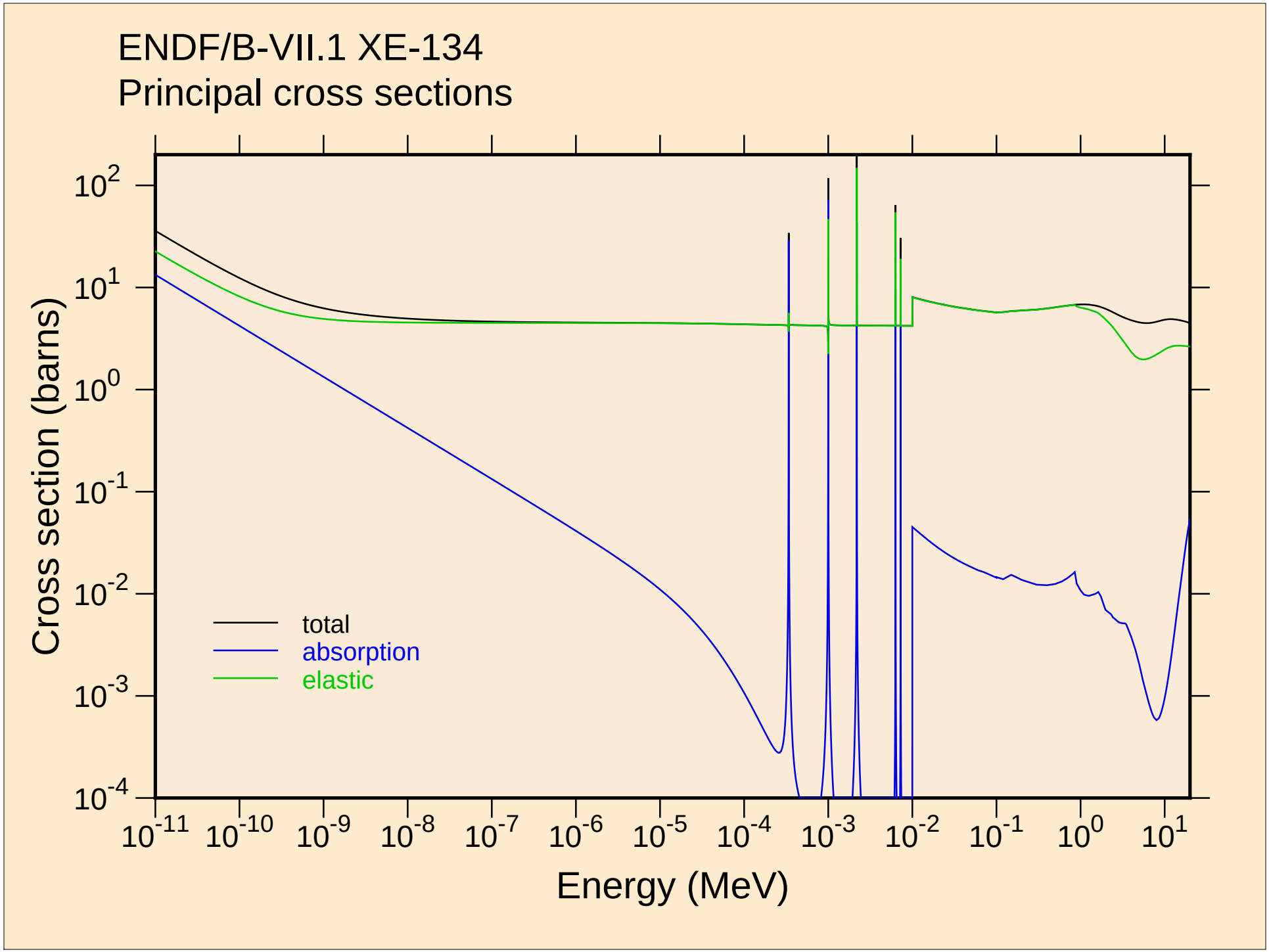
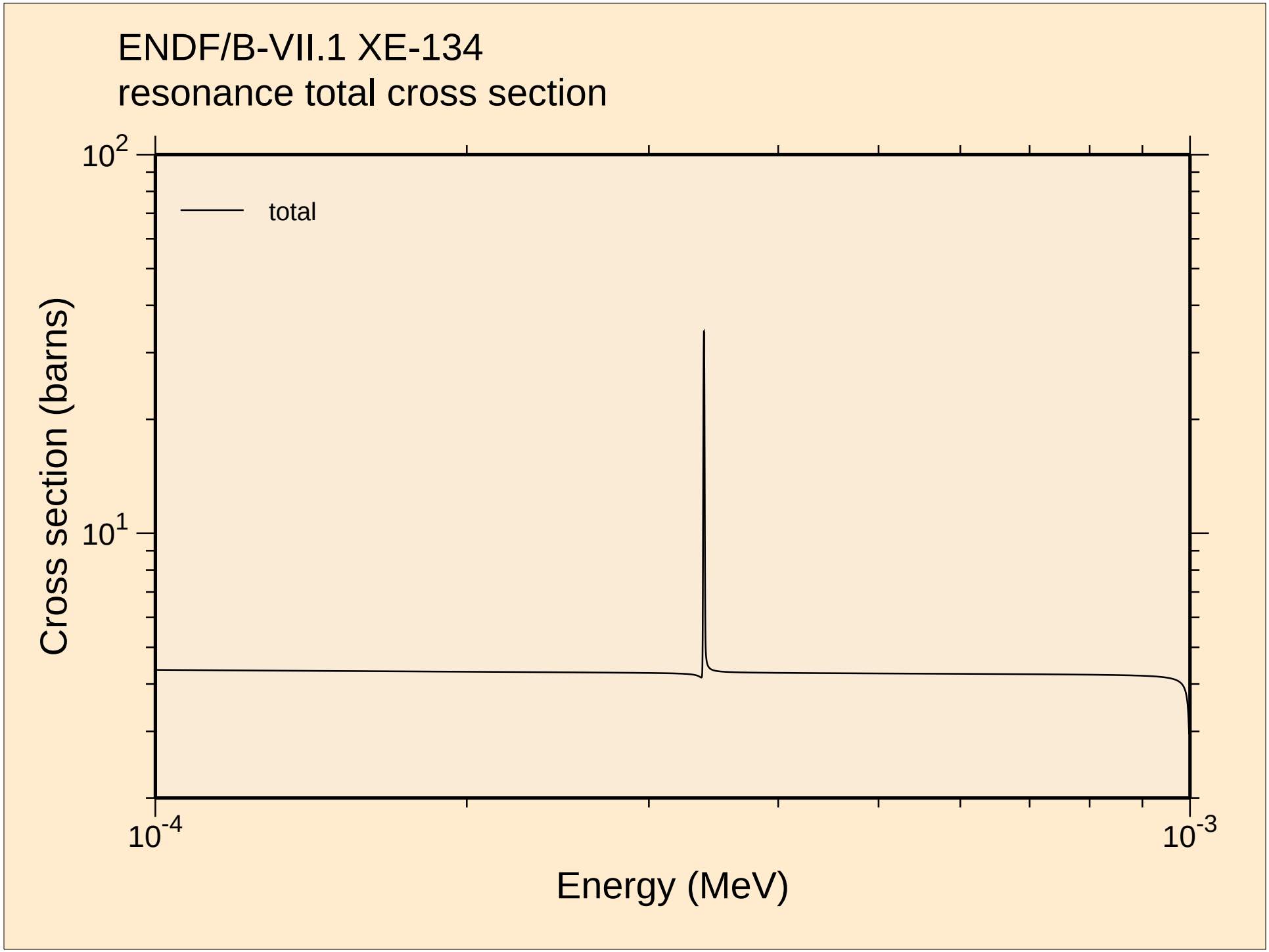
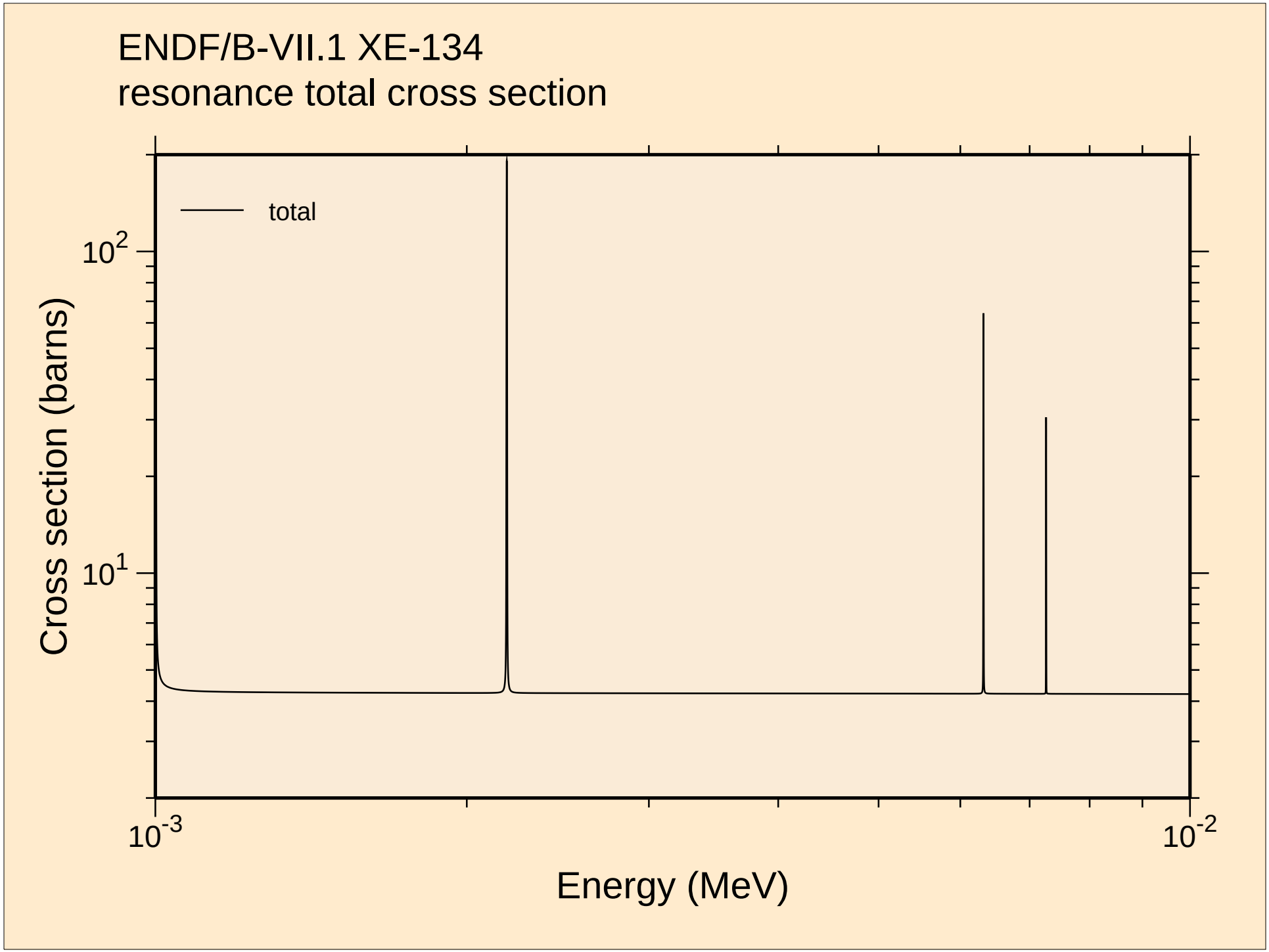
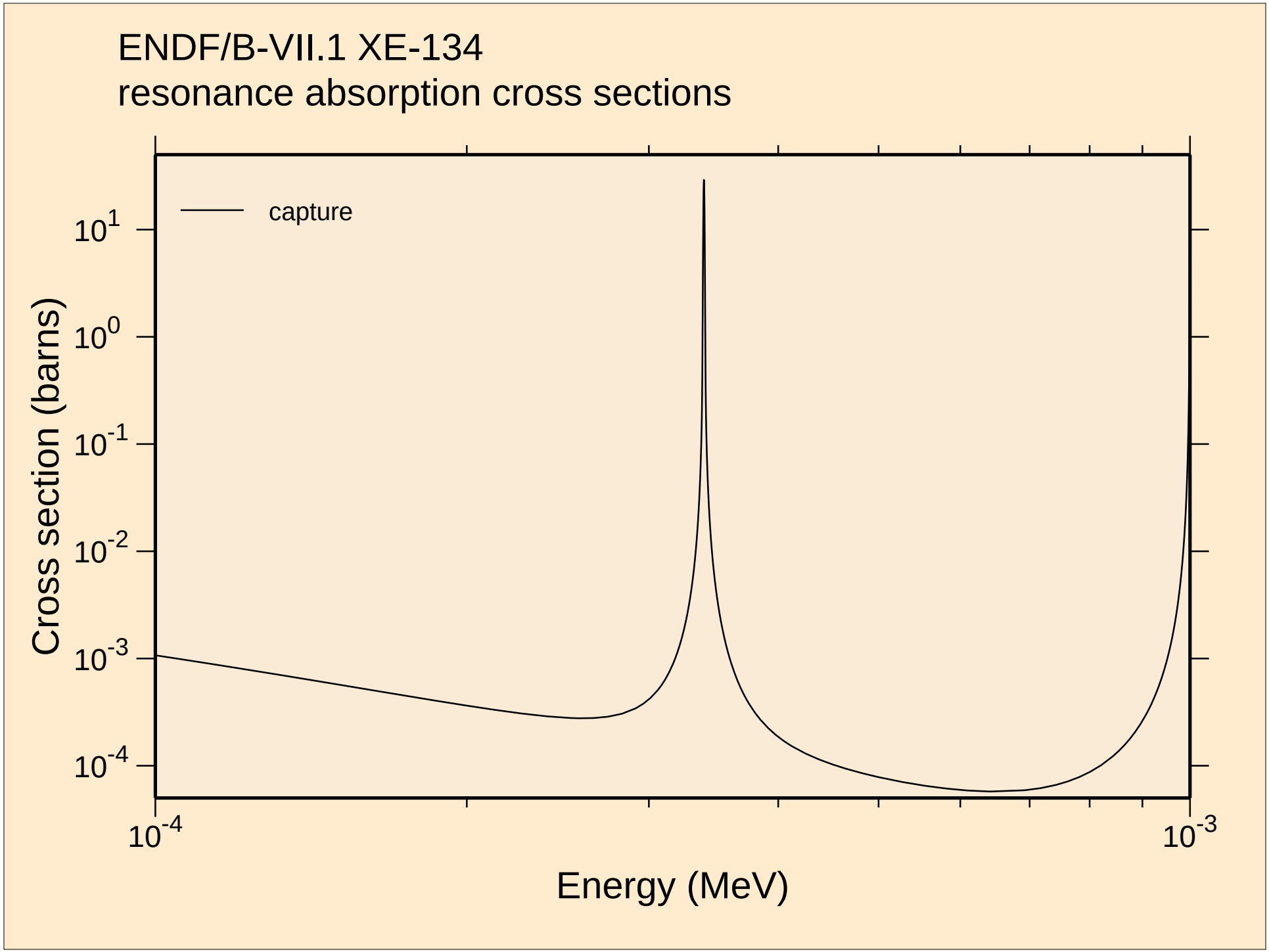
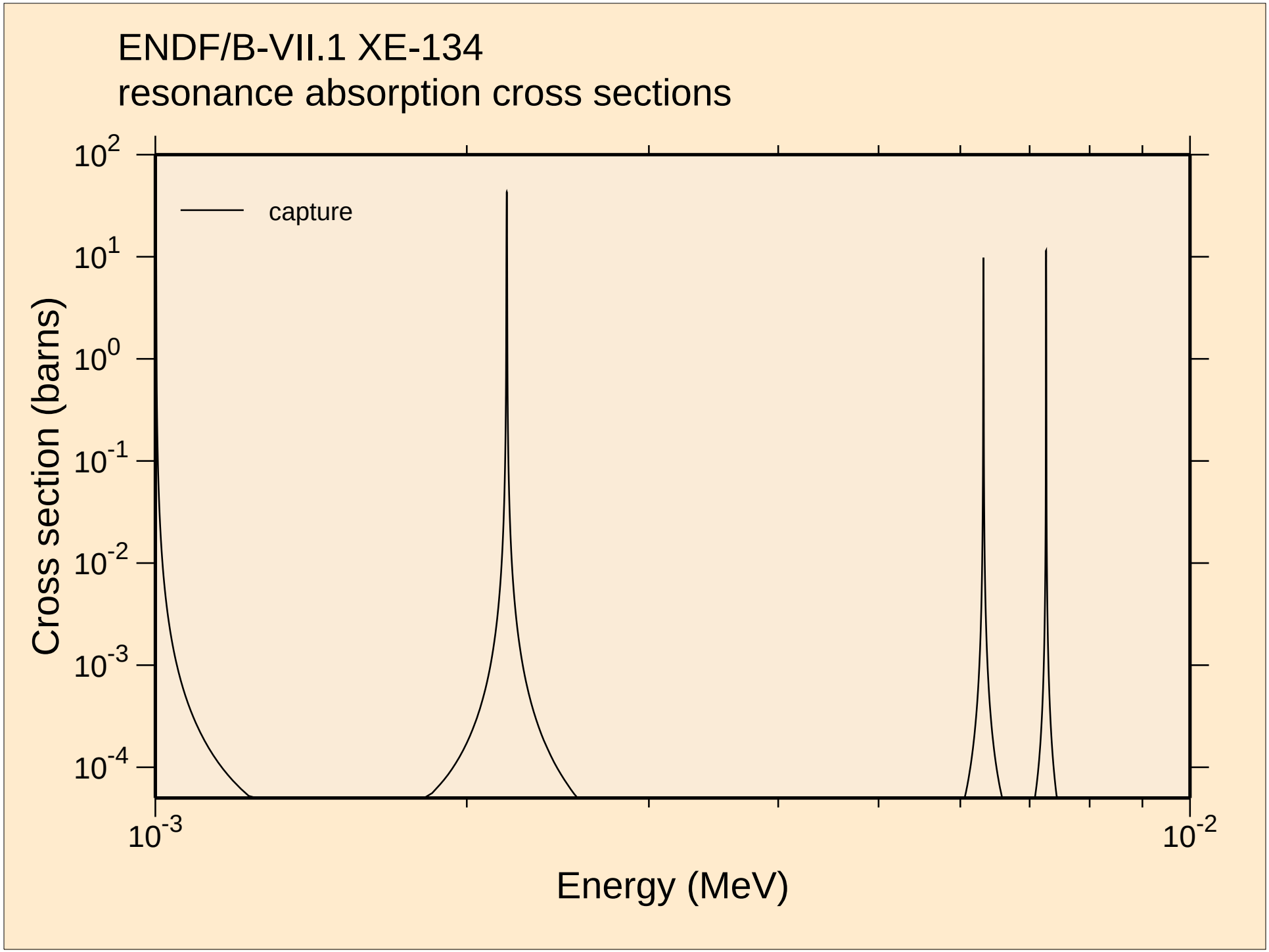
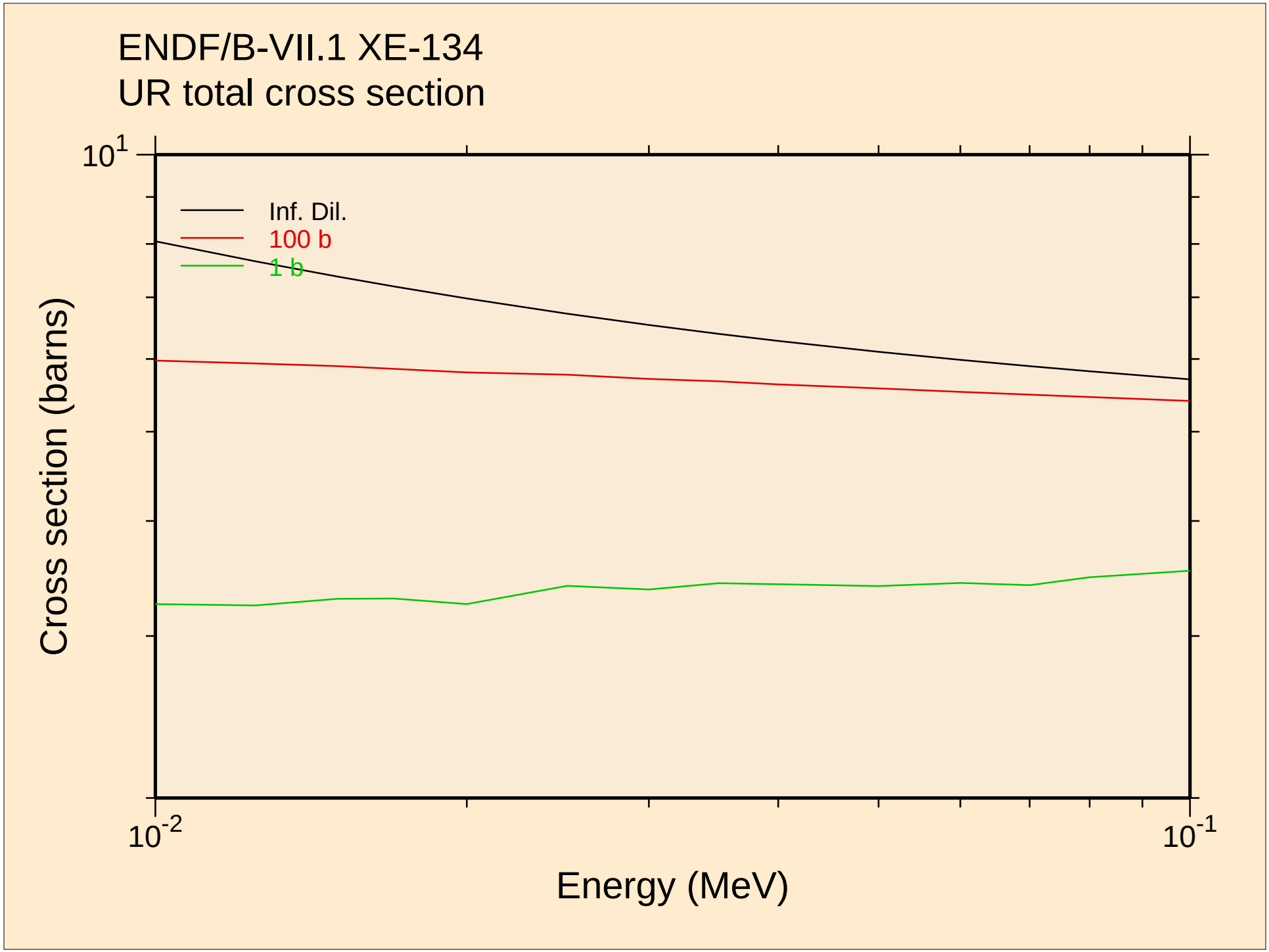

ENDF/B-VII.1 XE-134
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
$10^{2}$
$10^{1}$
$10^{0}$
$10^{-1}$
$10^{-2}$
$10^{-3}$
$10^{-4}$
$10^{-11}$ $10^{-10}$ $10^{-9}$ $10^{-8}$ $10^{-7}$ $10^{-6}$ $10^{-5}$ $10^{-4}$ $10^{-3}$ $10^{-2}$ $10^{-1}$ $10^{0}$ $10^{1}$

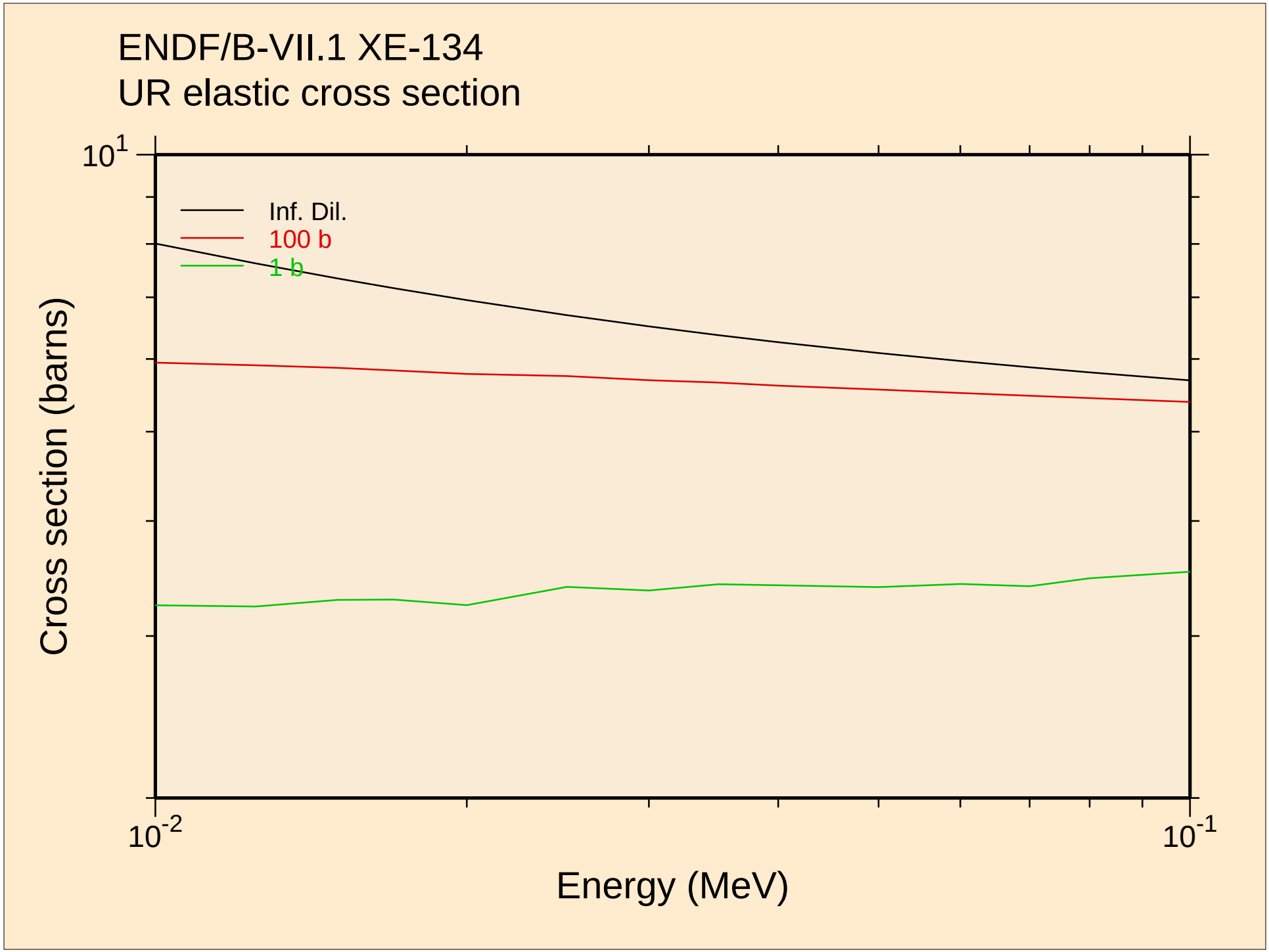

ENDF/B-VII.1 XE-134
resonance total cross section
total
Cross section (barns)
$10^2$
$10^1$
$10^{-4}$
$10^{-3}$
Energy (MeV)

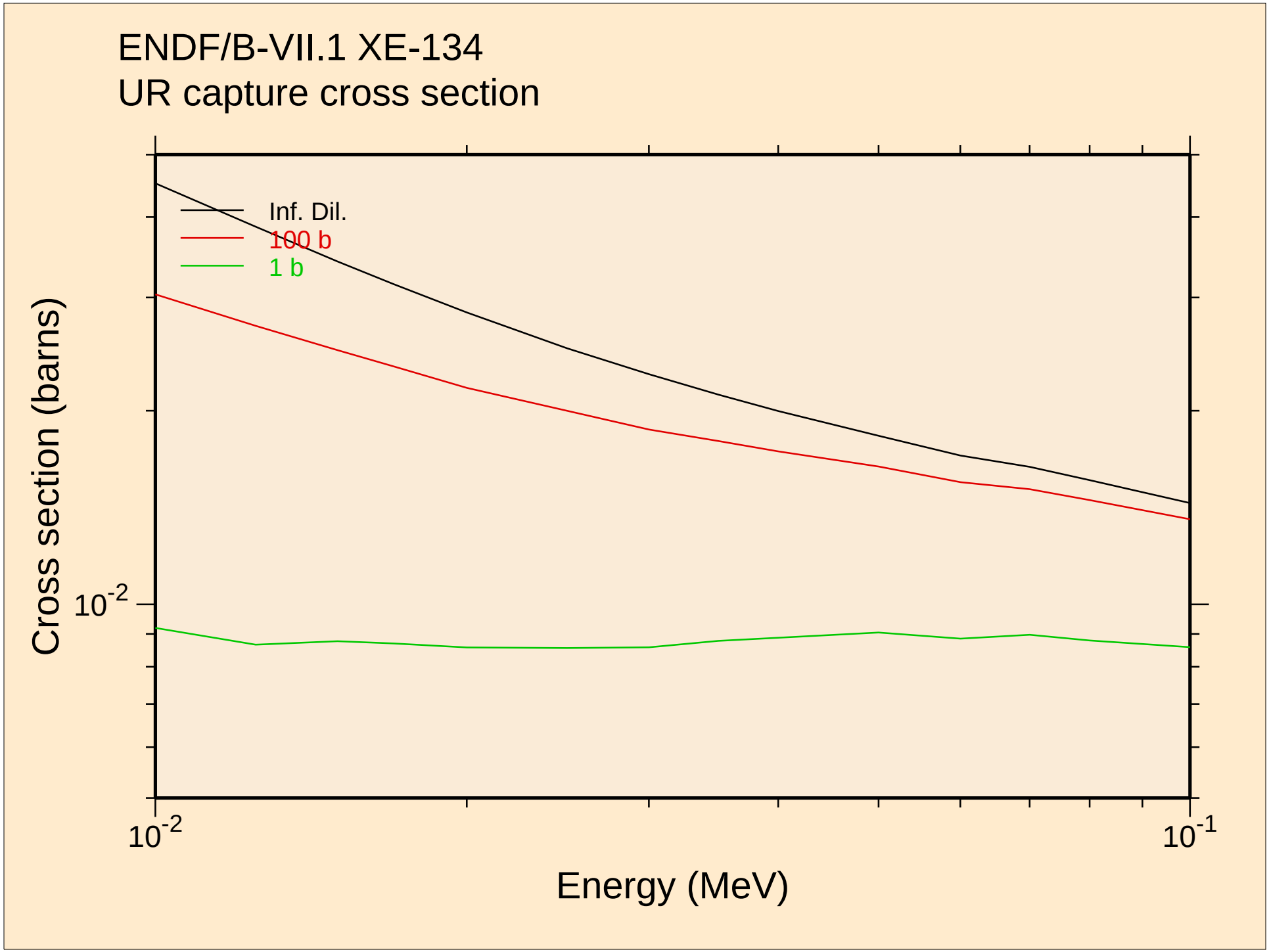

ENDF/B-VII.1 XE-134
resonance total cross section
total
$10^2$
$10^1$
Cross section (barns)
$10^{-3}$
$10^{-2}$
Energy (MeV)

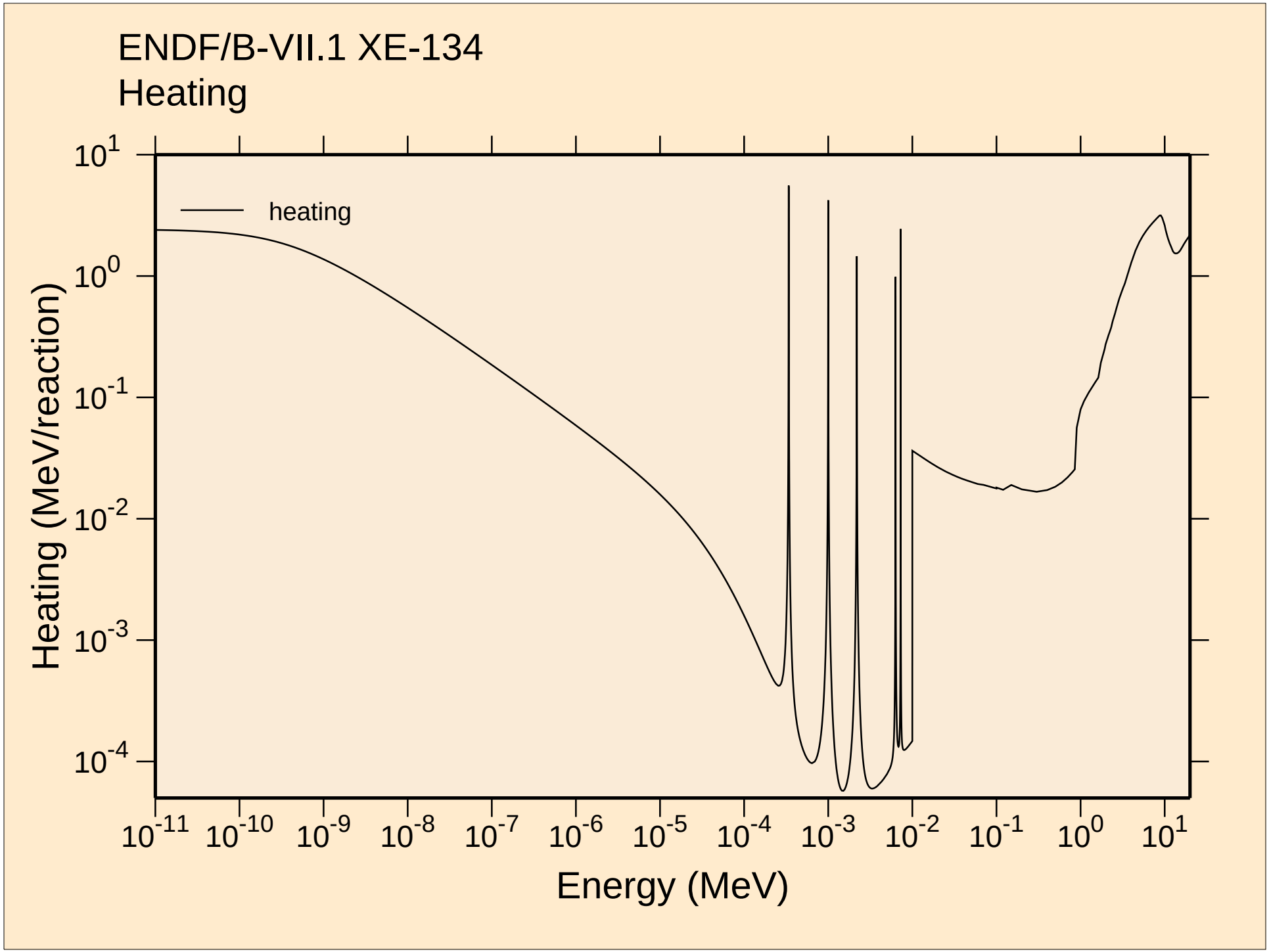

ENDF/B-VII.1 XE-134
resonance absorption cross sections
capture
Cross section (barns)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-4
10^-3
Energy (MeV)

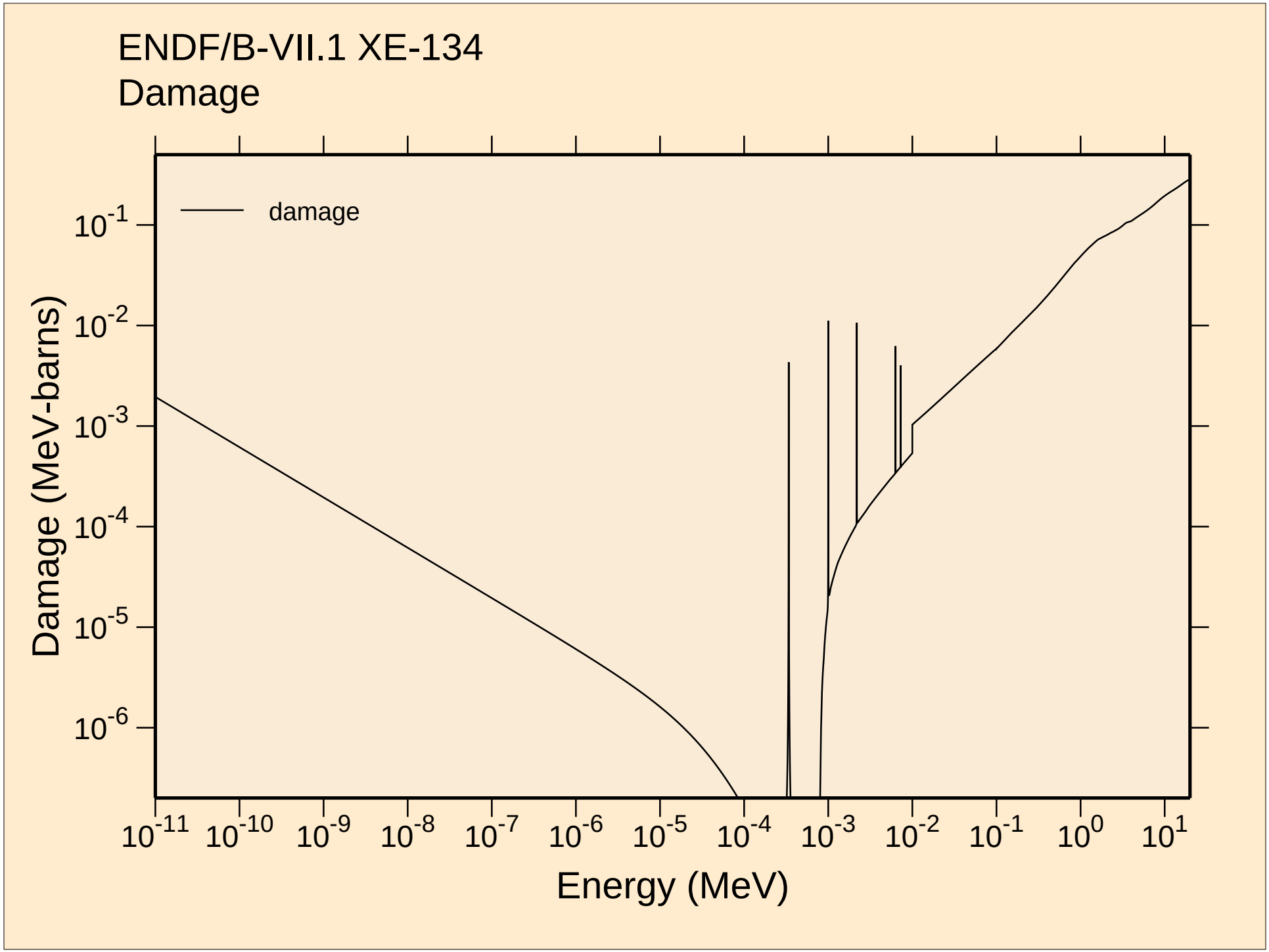

ENDF/B-VII.1 XE-134
resonance absorption cross sections
capture
Cross section (barns)
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-3
10^-2
Energy (MeV)

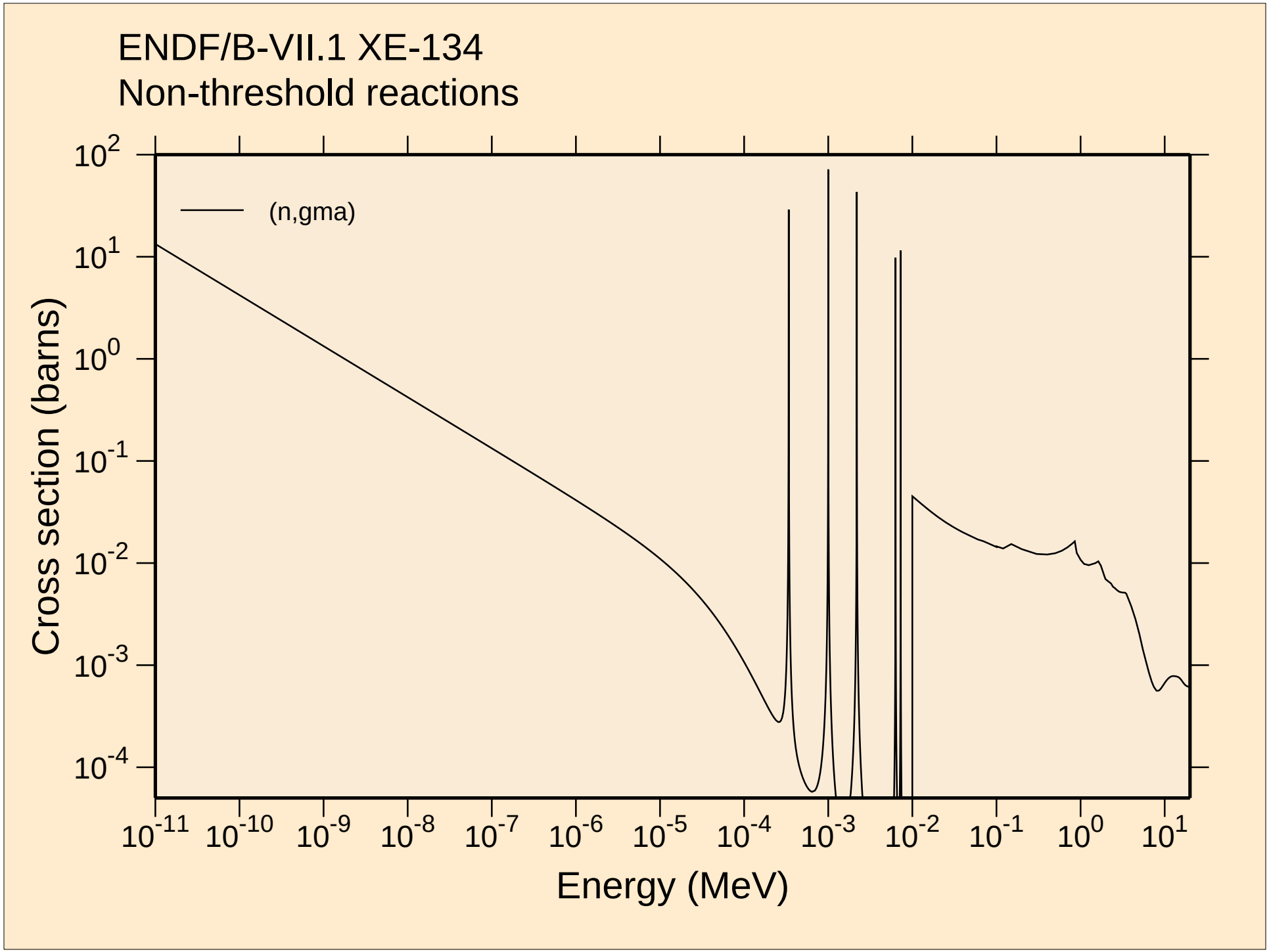

ENDF/B-VII.1 XE-134
UR total cross section
$10^{1}$
Inf. Dil.
100 b
1 b
Cross section (barns)
$10^{-2}$
$10^{-1}$
Energy (MeV)

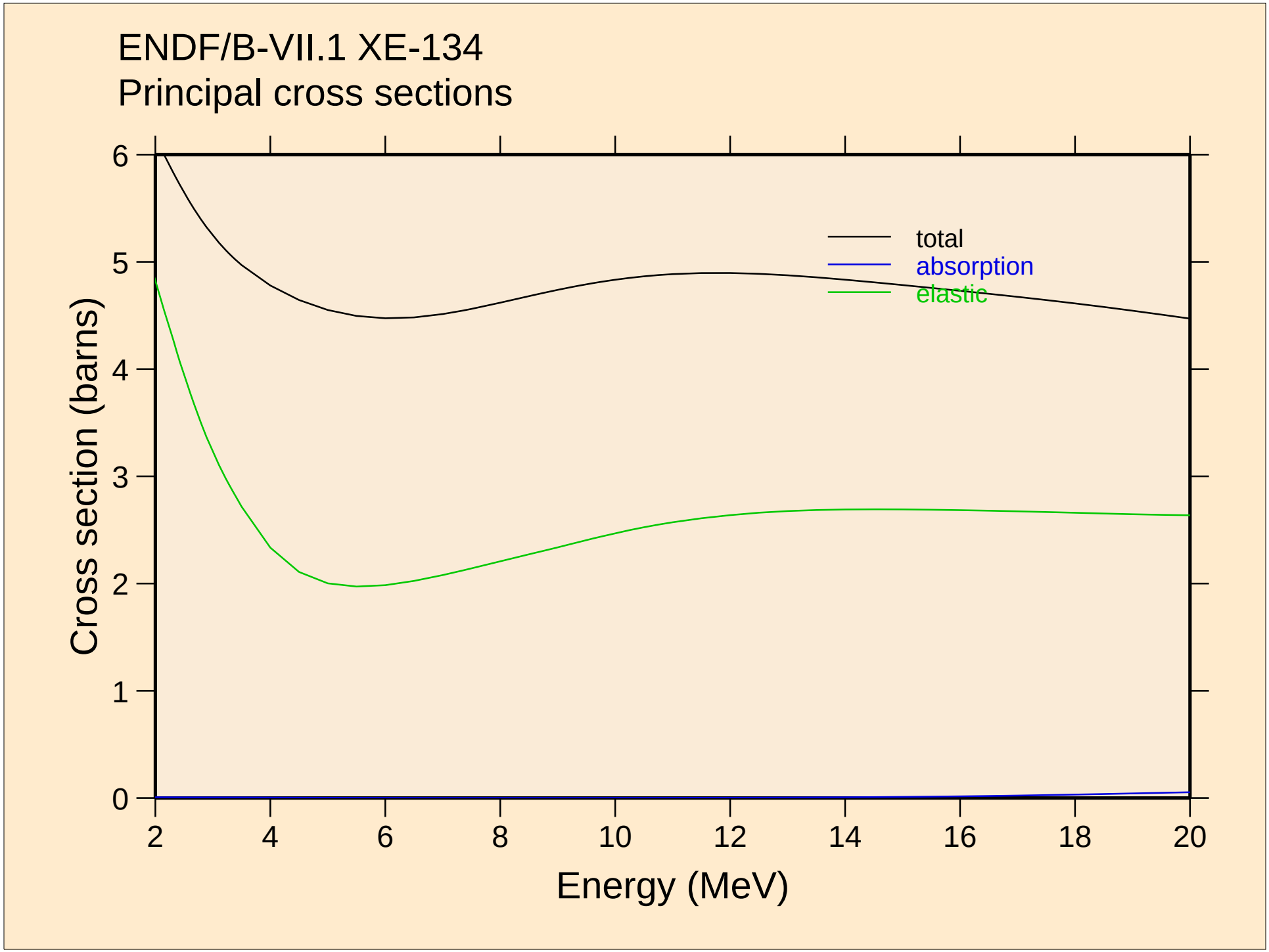

ENDF/B-VII.1 XE-134
UR elastic cross section
$10^{1}$
Inf. Dil.
100 b
1 b
Cross section (barns)
$10^{-2}$
$10^{-1}$
Energy (MeV)

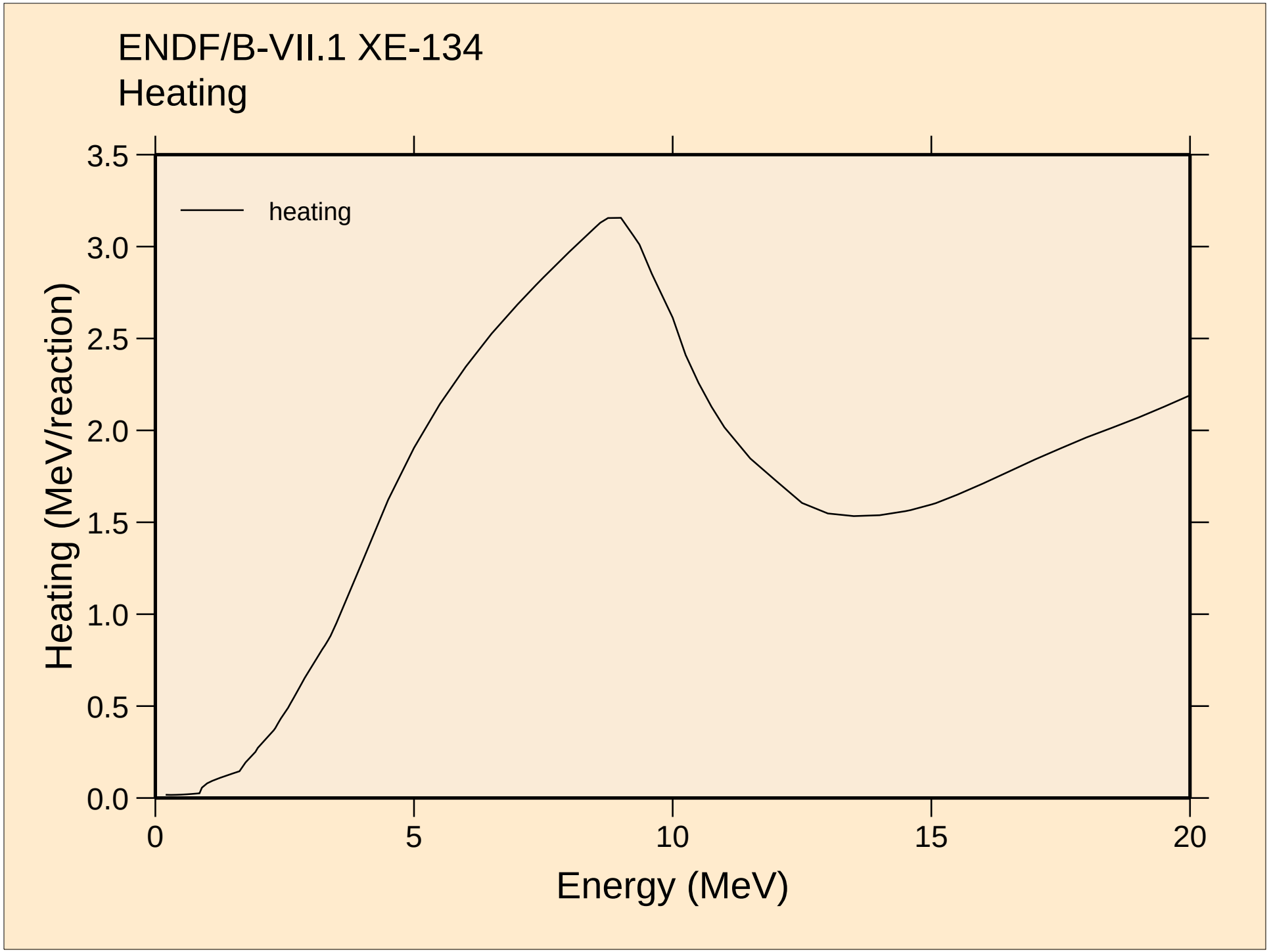

ENDF/B-VII.1 XE-134
UR capture cross section
Inf. Dil.
100 b
1 b
Cross section (barns)
10-2
10-2
10-1
Energy (MeV)

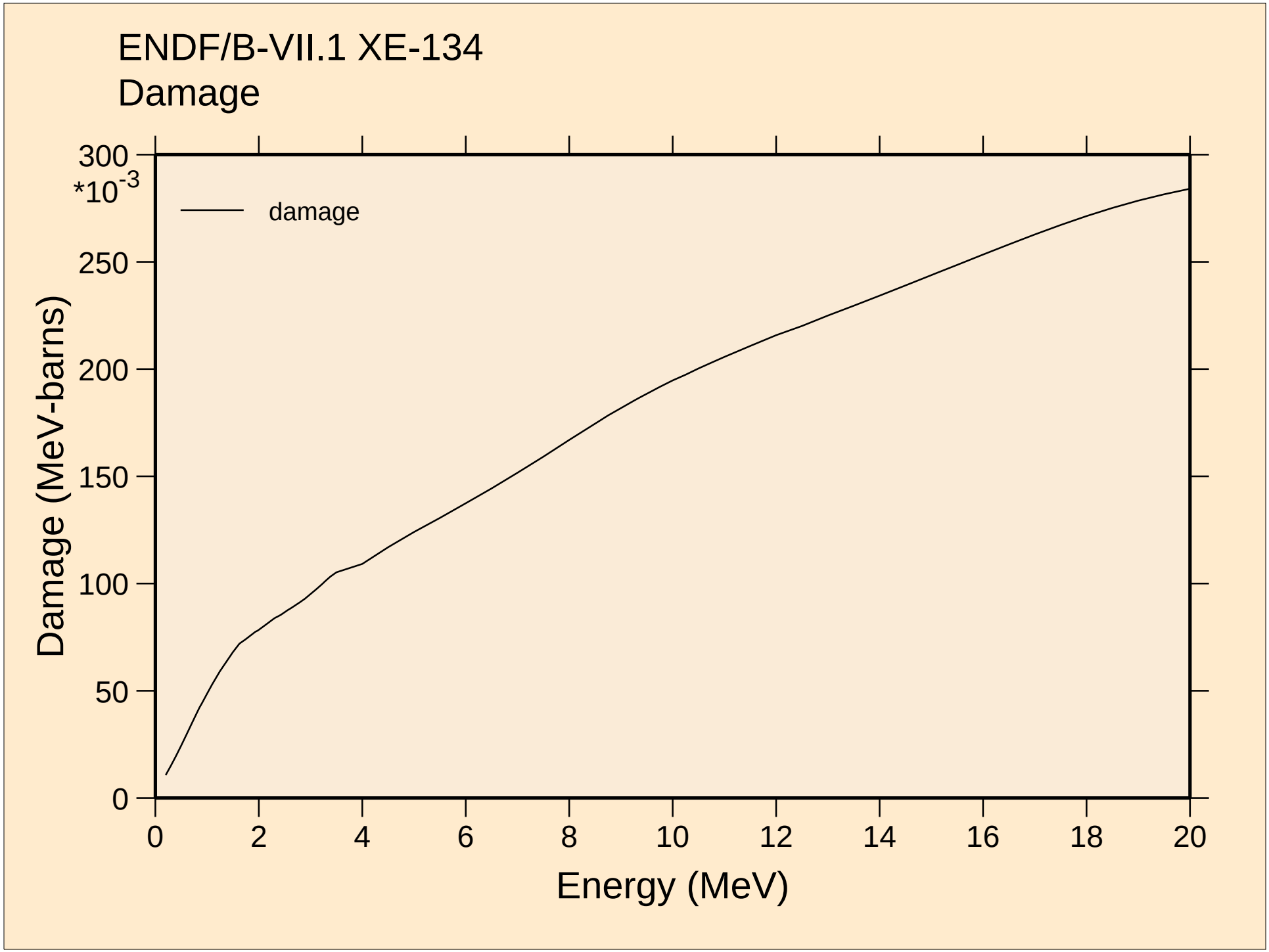

ENDF/B-VII.1 XE-134
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-11
10^-10
10^-9
10^-8
10^-7
10^-6
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1

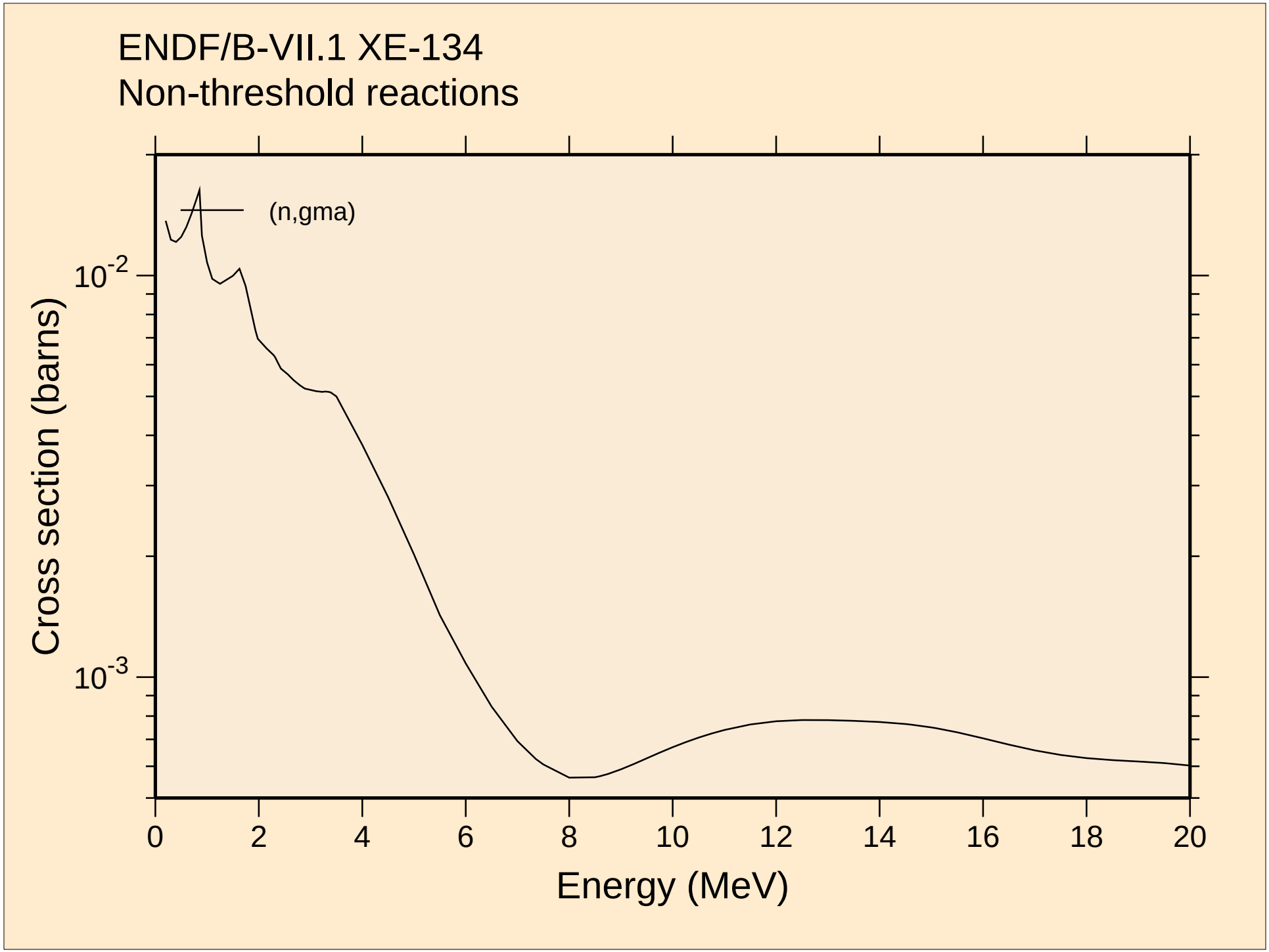

ENDF/B-VII.1 XE-134
Damage
damage
Damage (MeV-barns)
10-1
10-2
10-3
10-4
10-5
10-6
10-11 10-10 10-9 10-8 10-7 10-6 10-5 10-4 10-3 10-2 10-1 100 101
Energy (MeV)

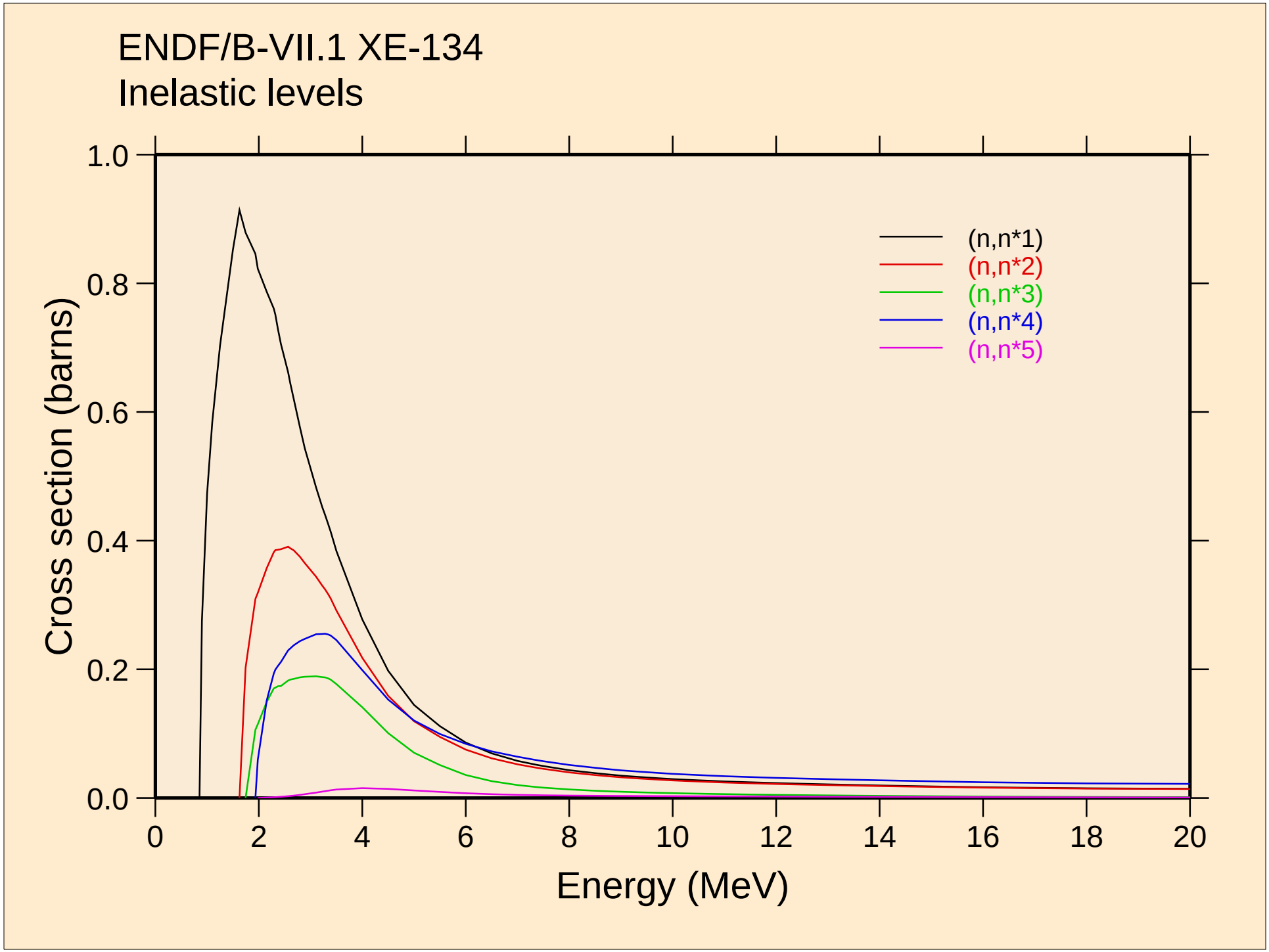

ENDF/B-VII.1 XE-134
Non-threshold reactions
(n,gma)
Cross section (barns)
Energy (MeV)
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-11
10^-10
10^-9
10^-8
10^-7
10^-6
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1

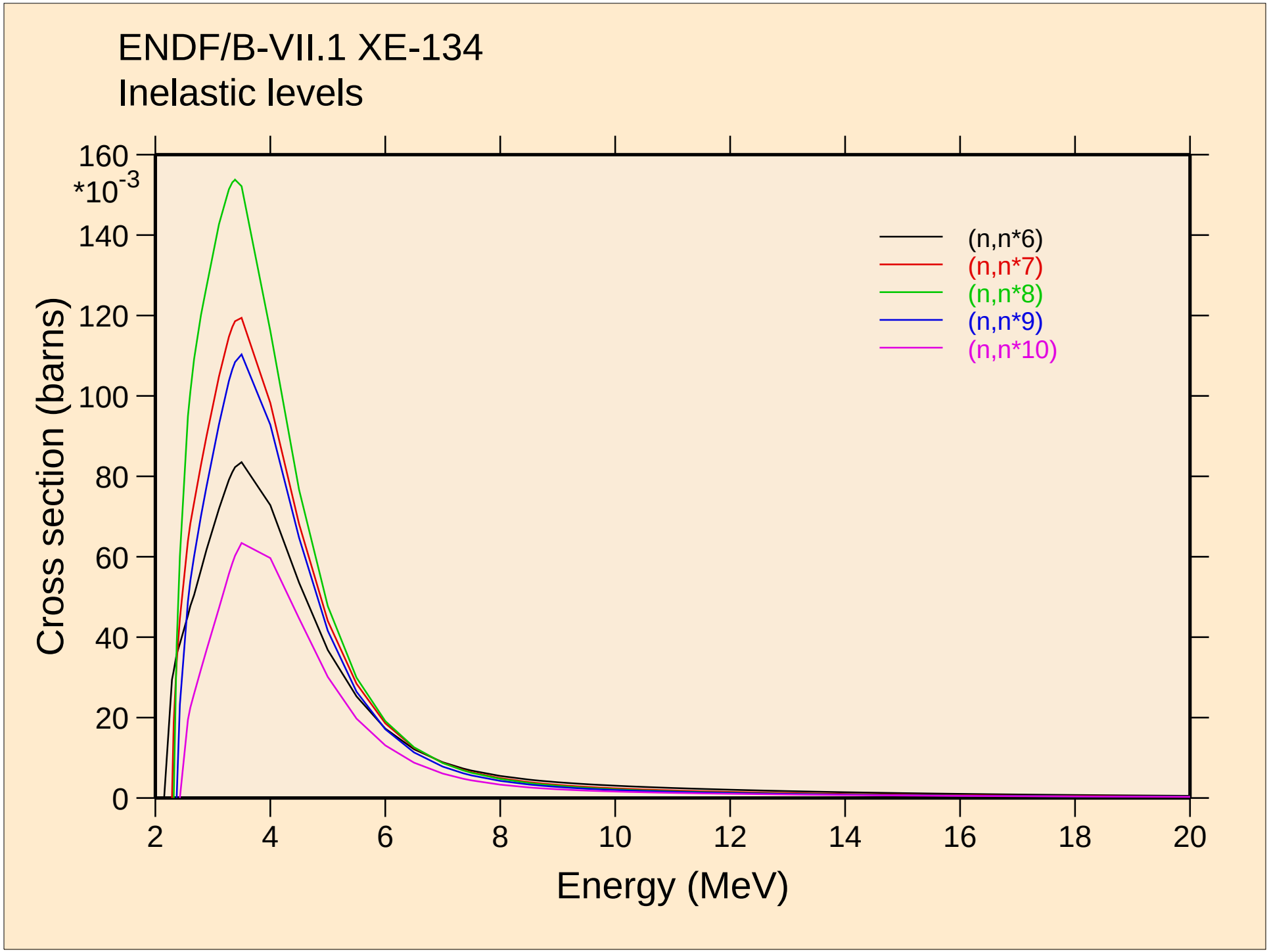

ENDF/B-VII.1 XE-134
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
0
1
2
3
4
5
6
2
4
6
8
10
12
14
16
18
20

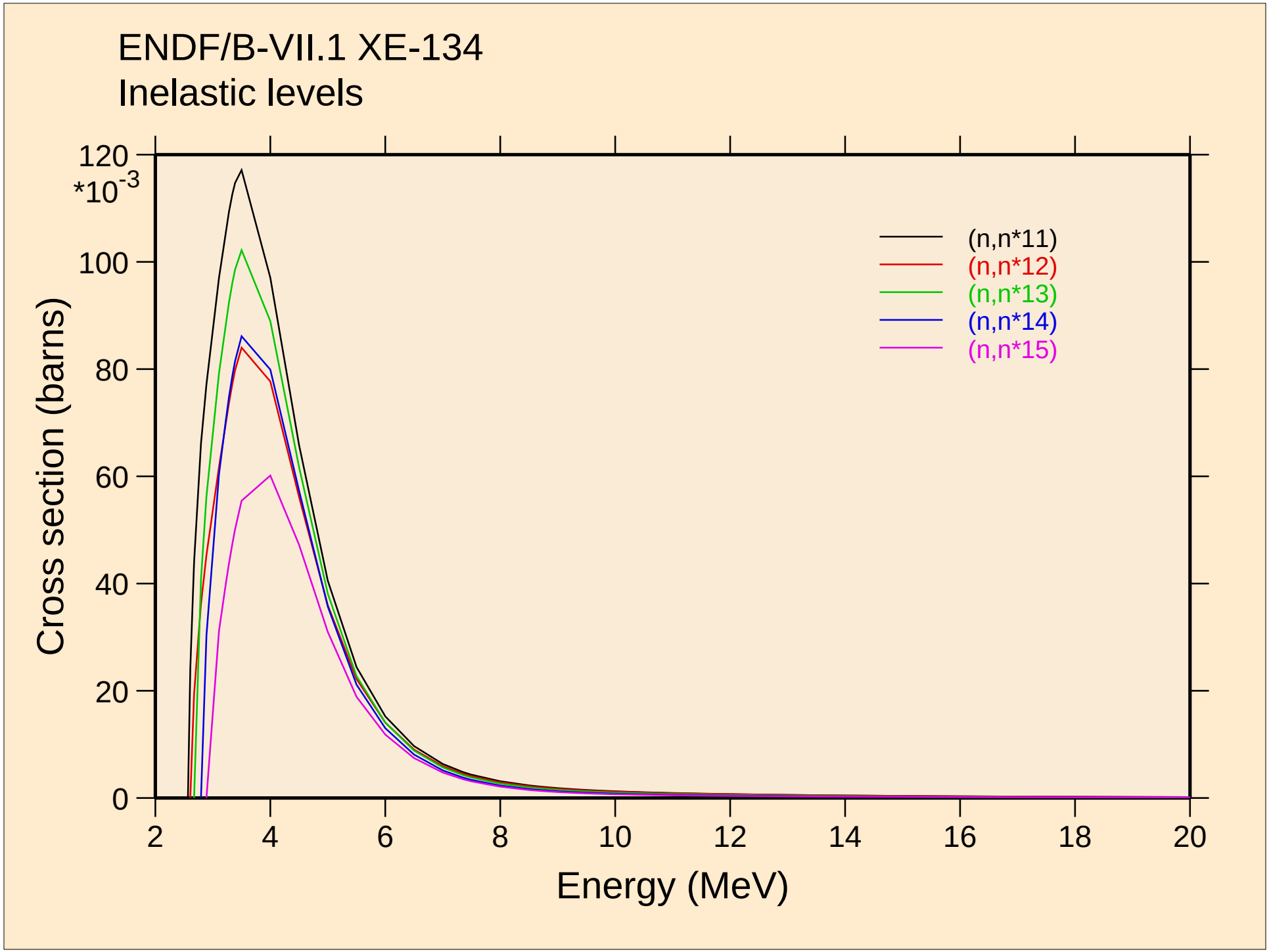

ENDF/B-VII.1 XE-134
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
0
5
10
15
20

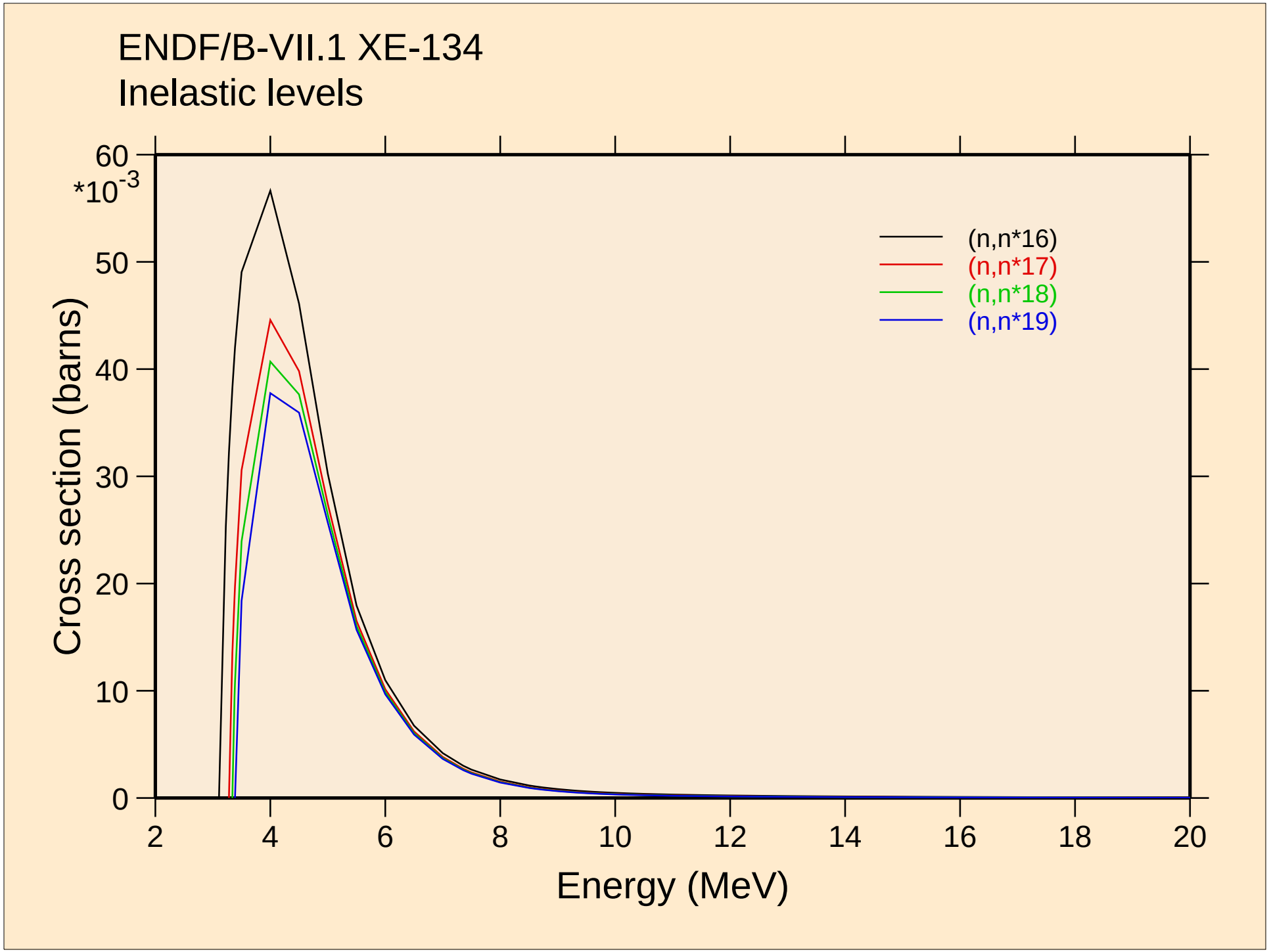

ENDF/B-VII.1 XE-134
Damage
300
*10-3
250
200
150
100
50
0
damage
Damage (MeV-barns)
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

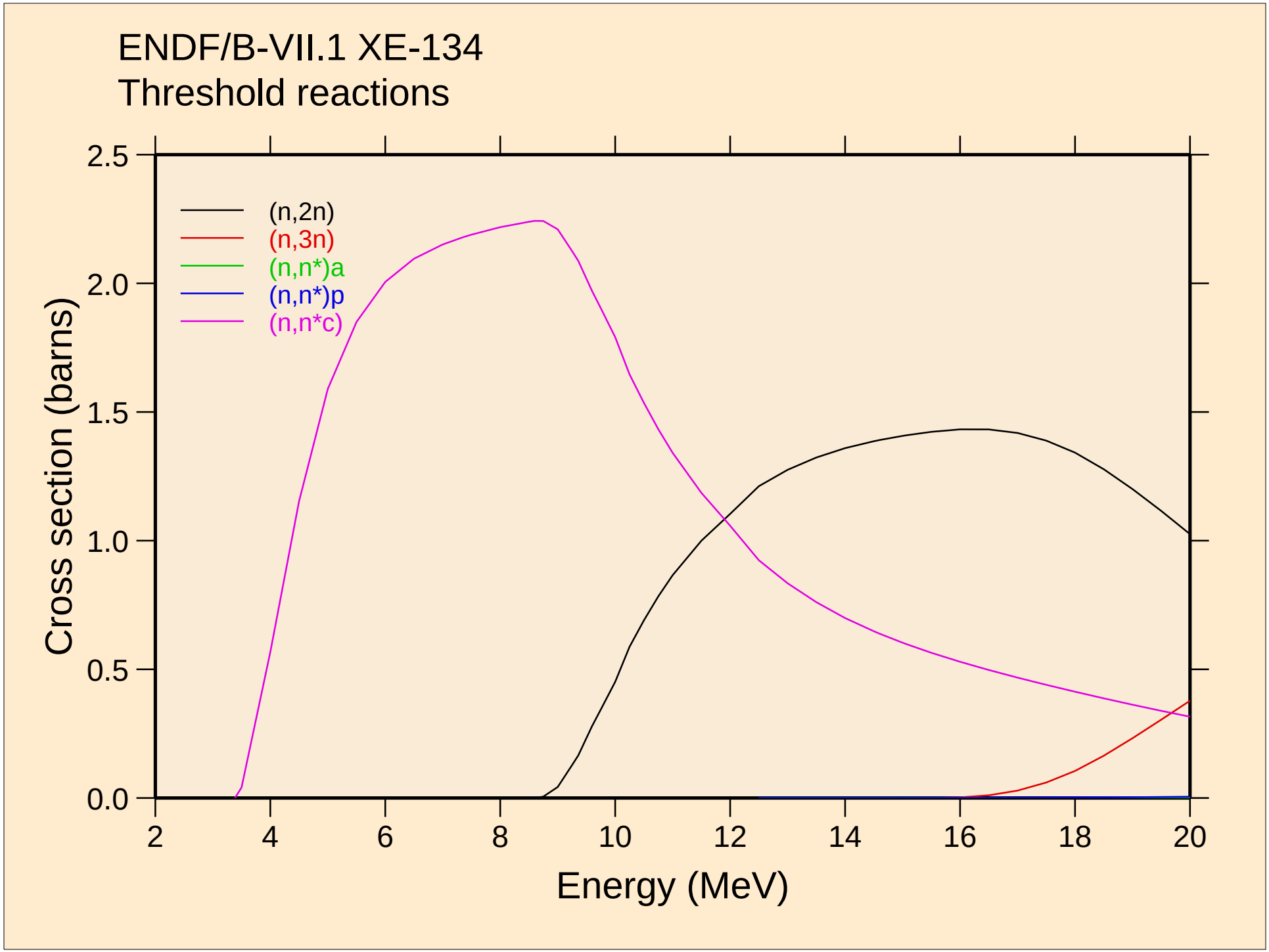

ENDF/B-VII.1 XE-134
Non-threshold reactions
(n,gma)
Cross section (barns)
10-2
10-3
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

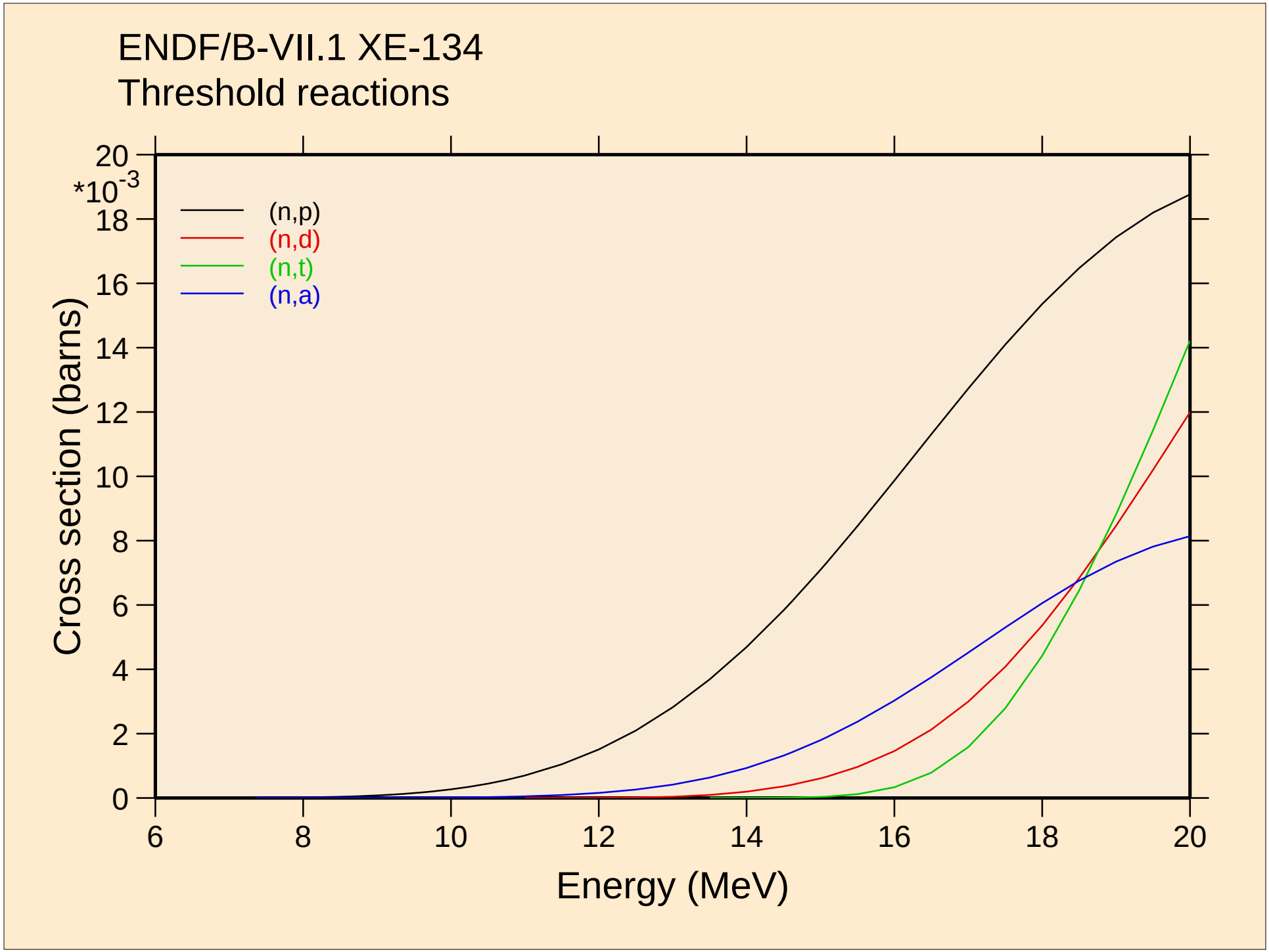

ENDF/B-VII.1 XE-134
Inelastic levels
Cross section (barns)
Energy (MeV)
1.0
0.8
0.6
0.4
0.2
0.0
0
2
4
6
8
10
12
14
16
18
20
(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)

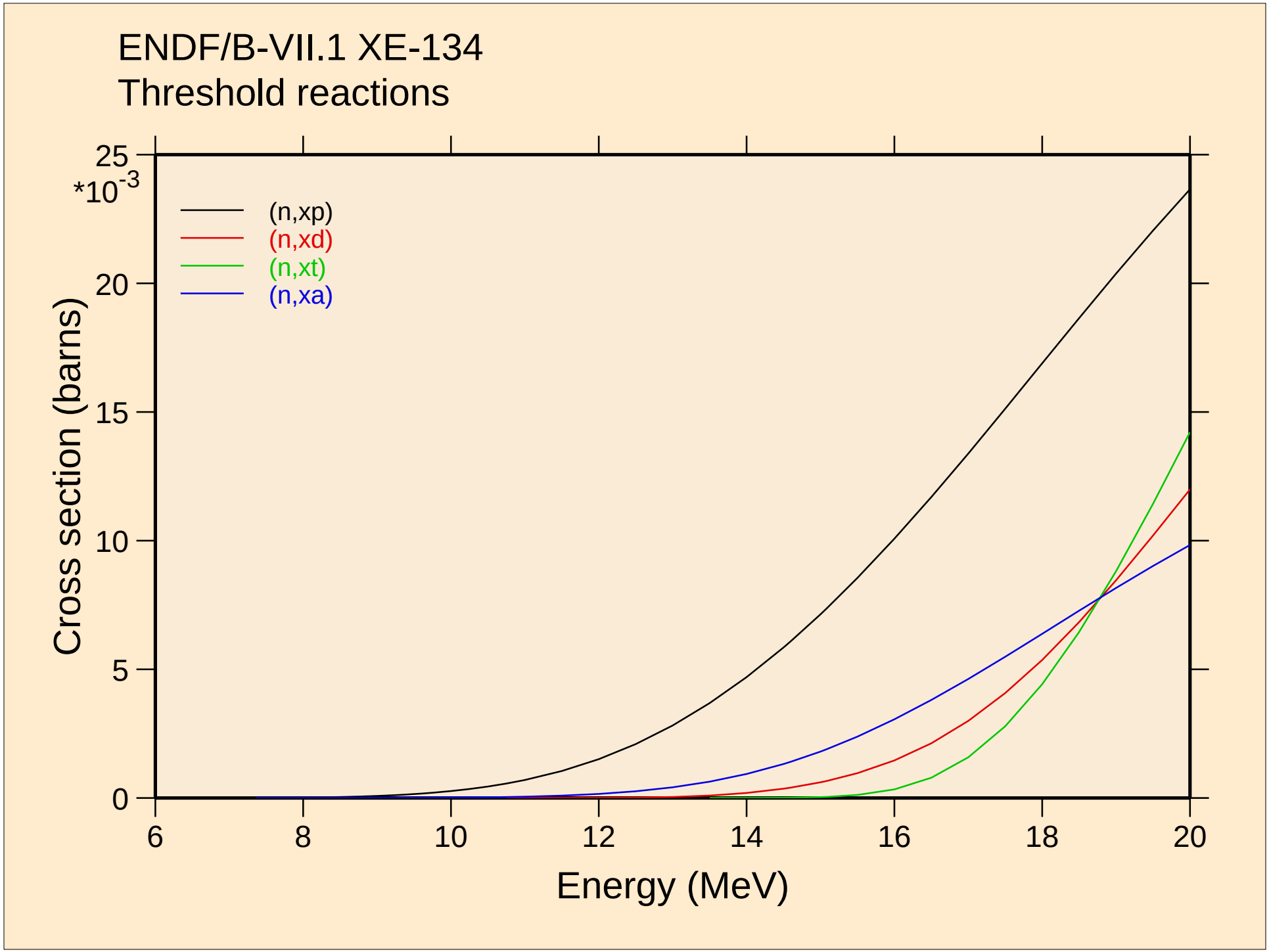

ENDF/B-VII.1 XE-134
Inelastic levels
Cross section (barns)
*10-3
160
140
120
100
80
60
40
20
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)
(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)
(n,n*10)

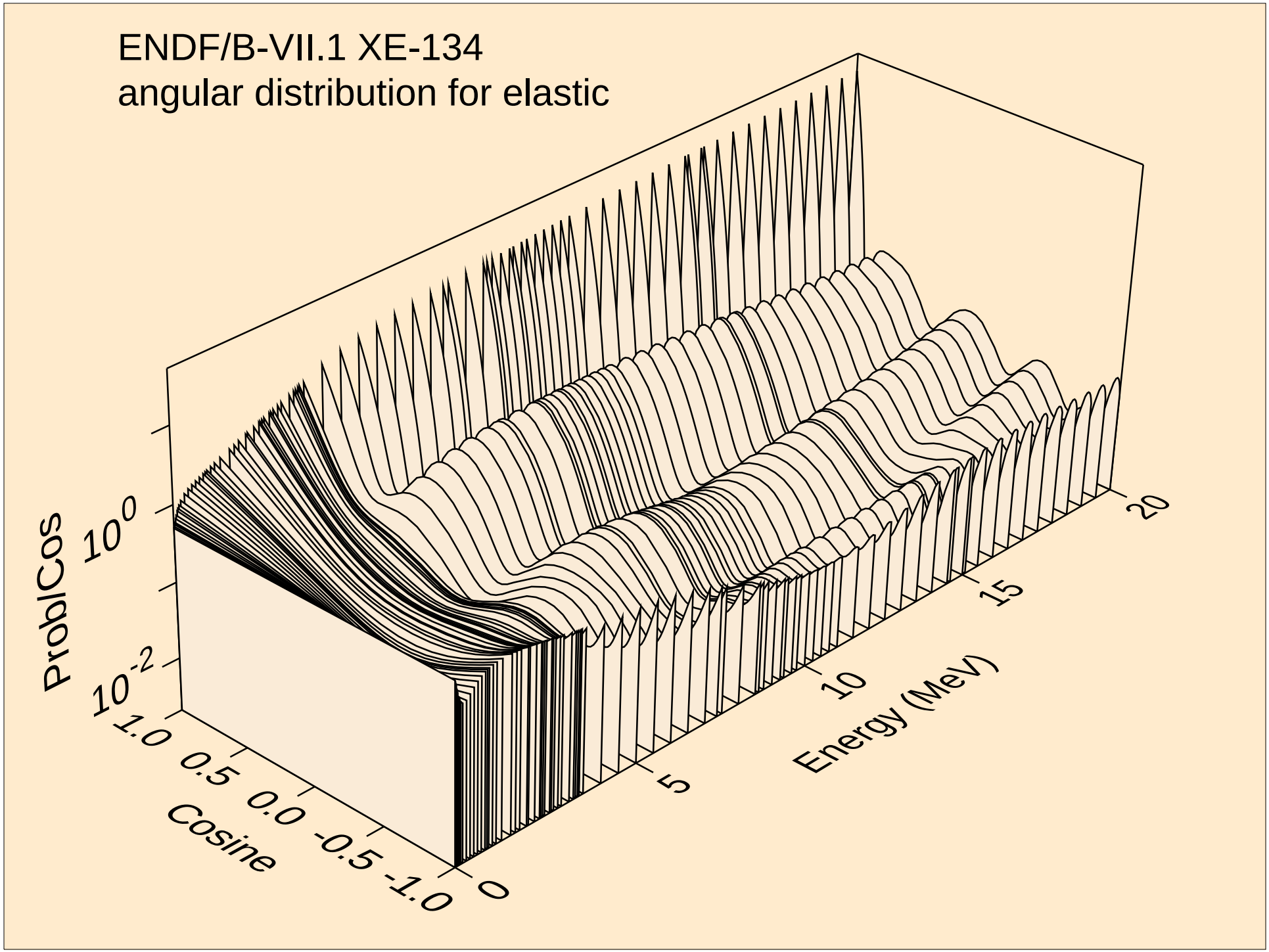

ENDF/B-VII.1 XE-134
Inelastic levels
120
*10-3
100
80
60
40
20
0
Cross section (barns)
2
4
6
8
10
12
14
16
18
20
Energy (MeV)
(n,n*11)
(n,n*12)
(n,n*13)
(n,n*14)
(n,n*15)

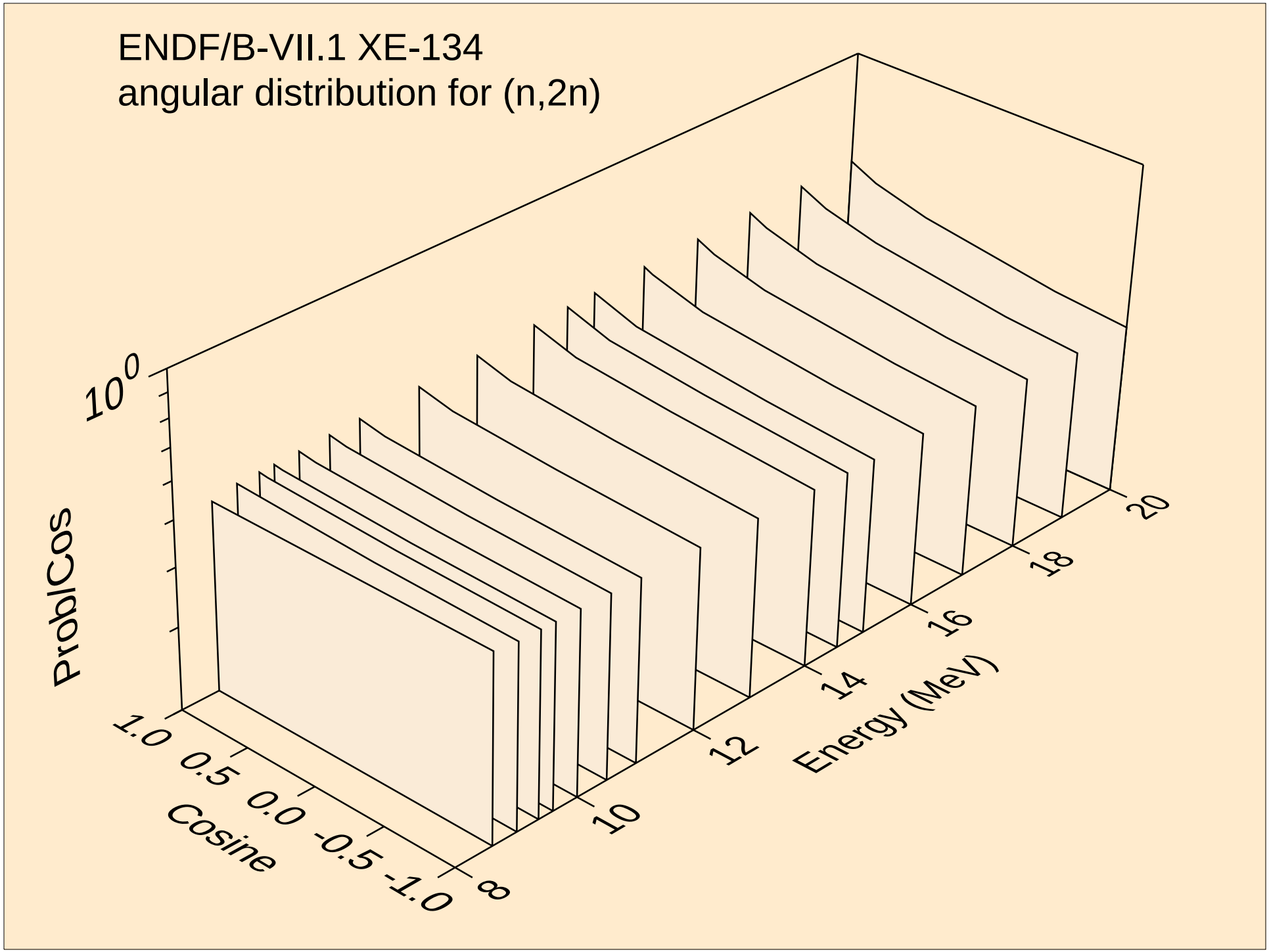

ENDF/B-VII.1 XE-134
Inelastic levels
Cross section (barns)
*10-3
60
50
40
30
20
10
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)
(n,n*16)
(n,n*17)
(n,n*18)
(n,n*19)

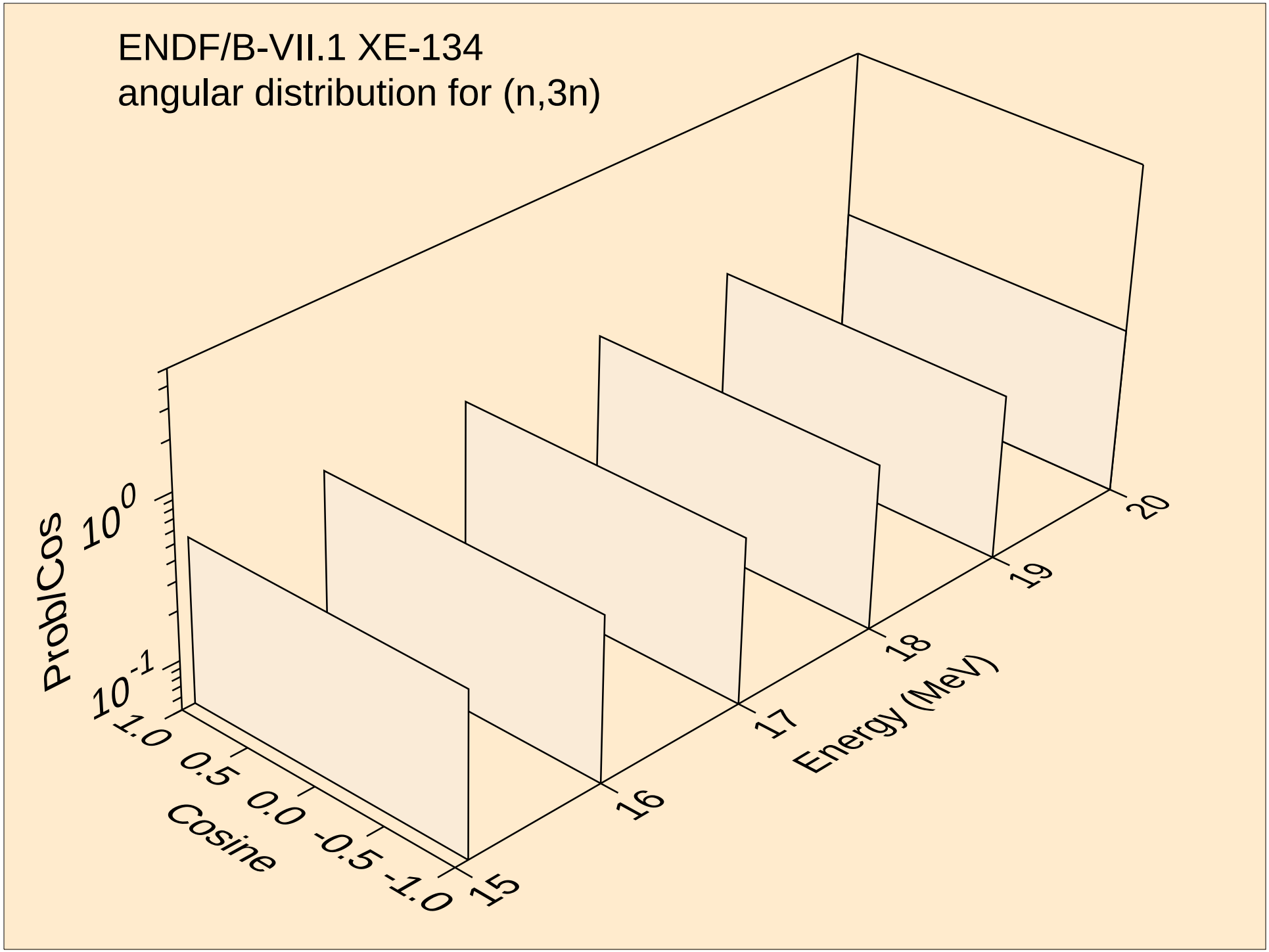

ENDF/B-VII.1 XE-134
Threshold reactions
(n,2n)
(n,3n)
(n,n*)a
(n,n*)p
(n,n*c)
Cross section (barns)
Energy (MeV)
0.0
0.5
1.0
1.5
2.0
2.5
2
4
6
8
10
12
14
16
18
20

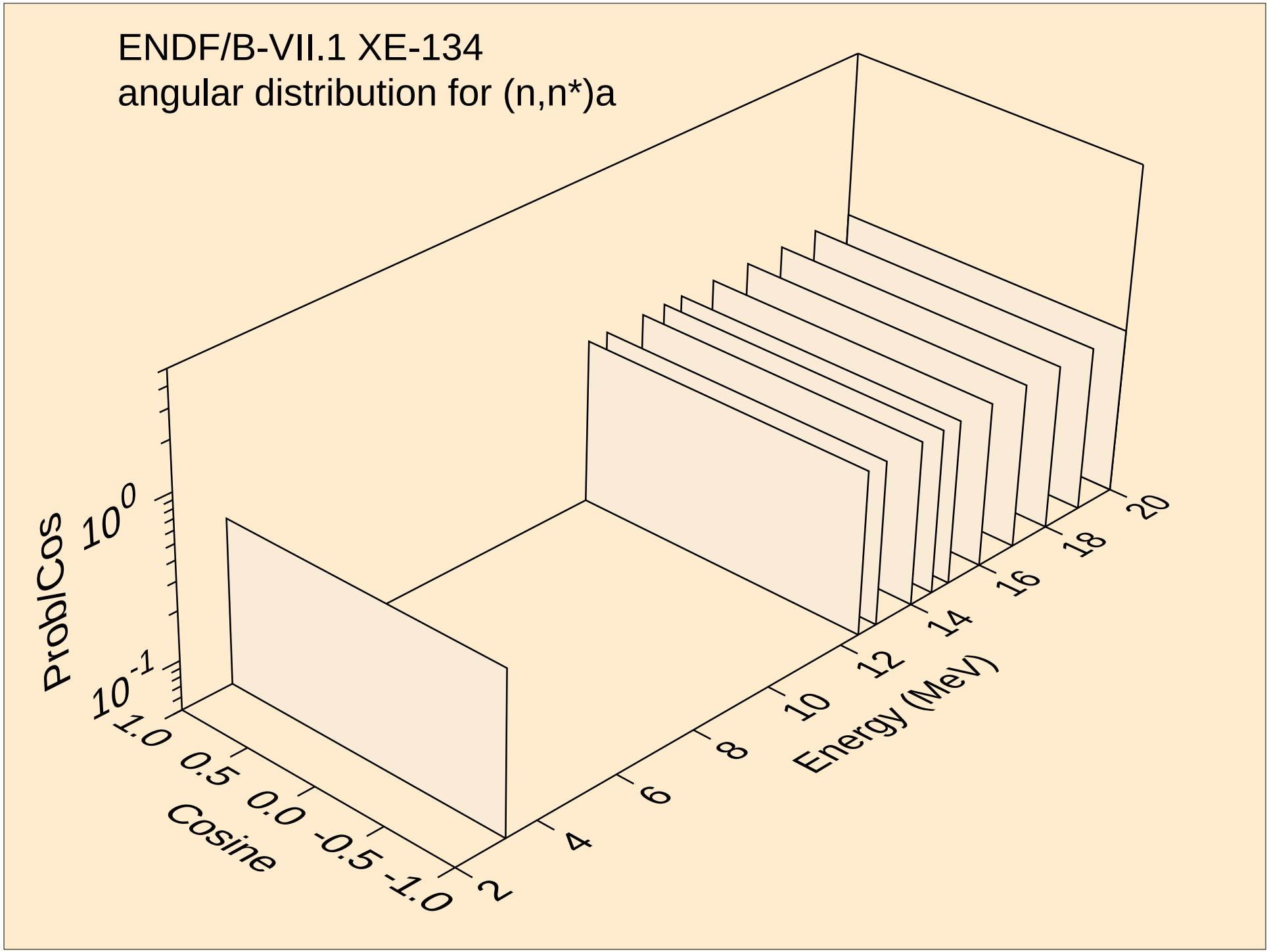

ENDF/B-VII.1 XE-134
Threshold reactions
Cross section (barns)
*10-3
20
18
16
14
12
10
8
6
4
2
0
(n,p)
(n,d)
(n,t)
(n,a)
6
8
10
12
14
16
18
20
Energy (MeV)

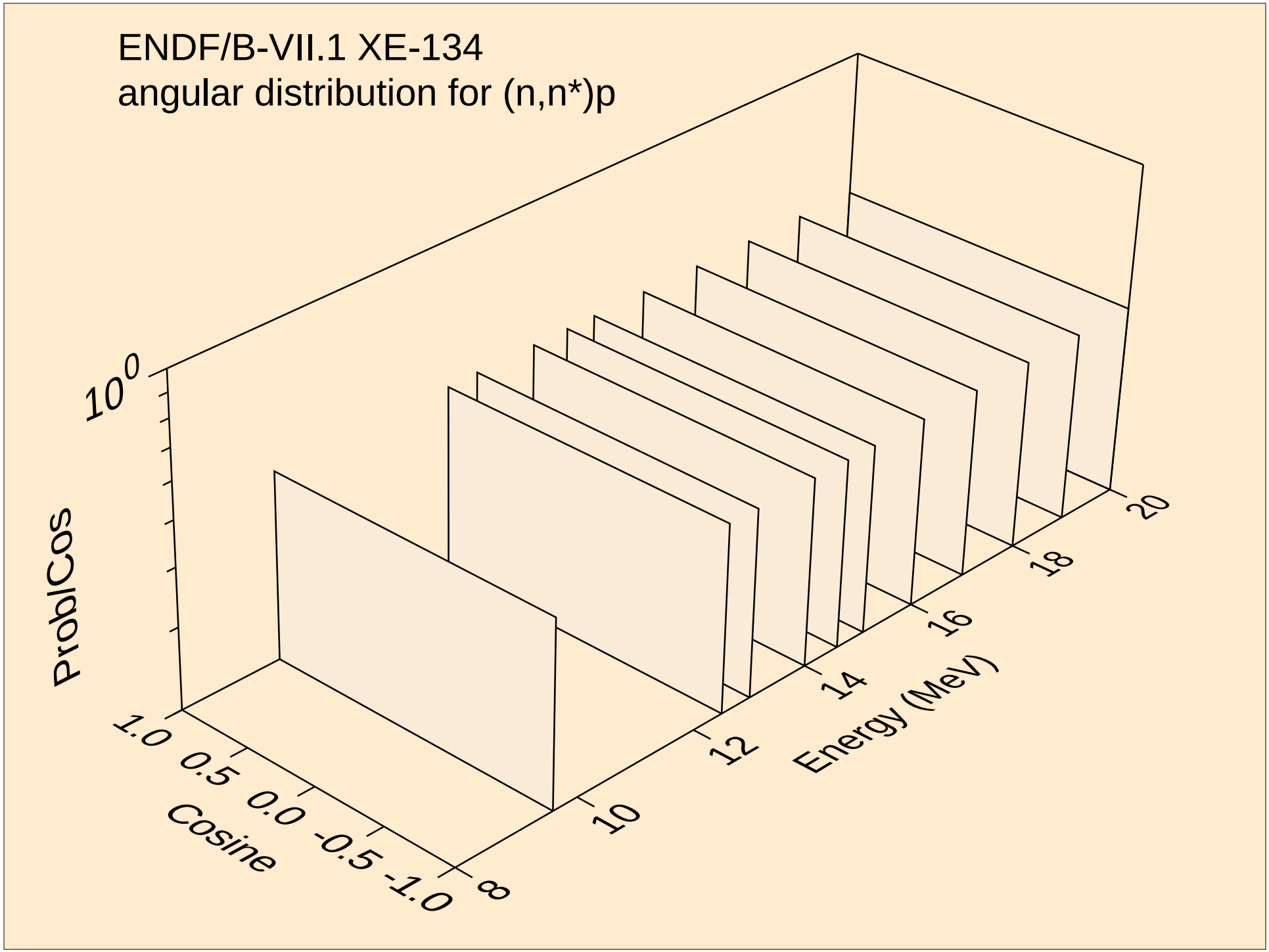

ENDF/B-VII.1 XE-134
Threshold reactions
Cross section (barns)
*10-3
25
20
15
10
5
0
(n,xp)
(n,xd)
(n,xt)
(n,xa)
6
8
10
12
14
16
18
20
Energy (MeV)

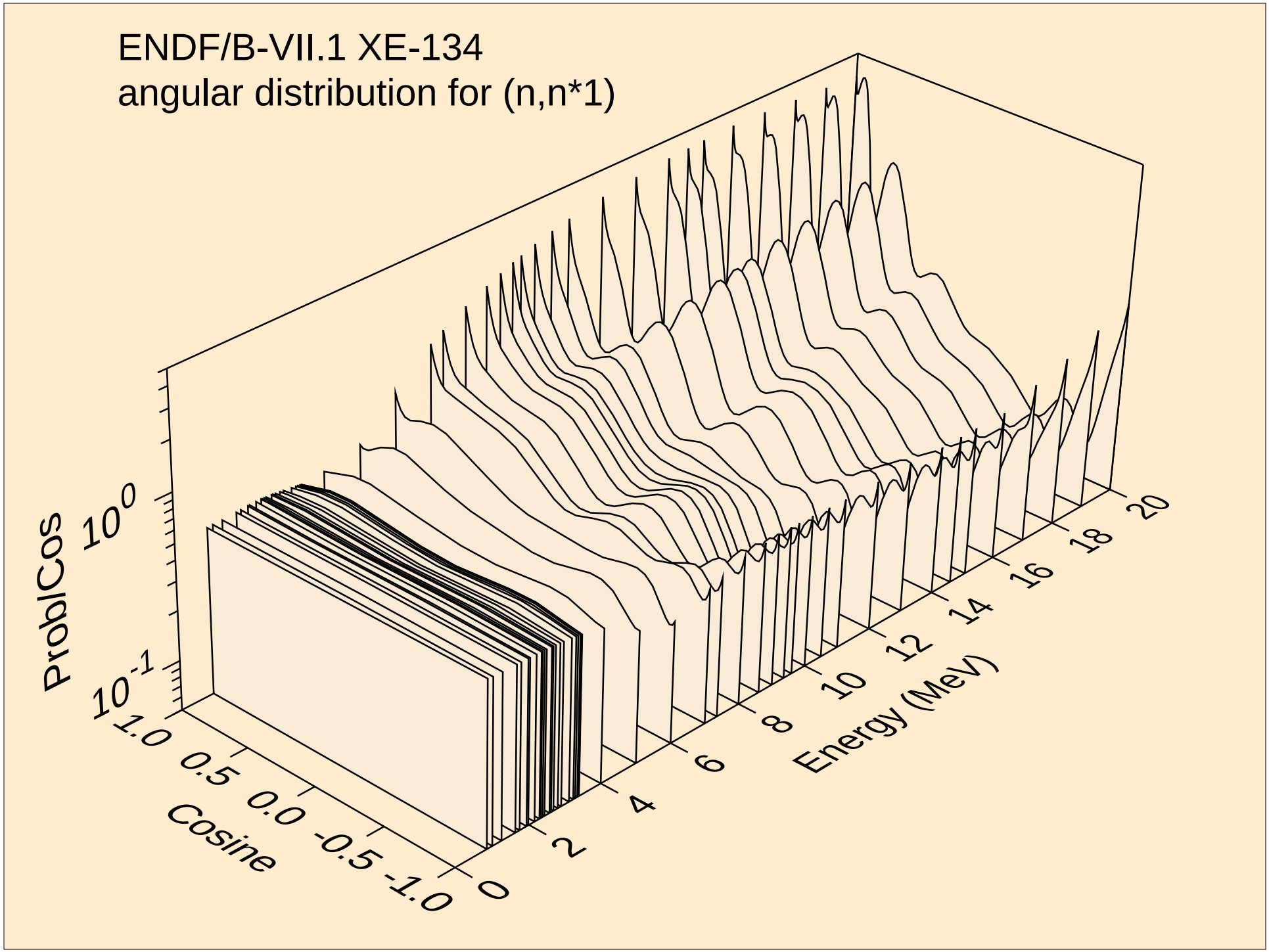

ENDF/B-VII.1 XE-134
angular distribution for elastic
ProbICos
10^0
10^-2
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

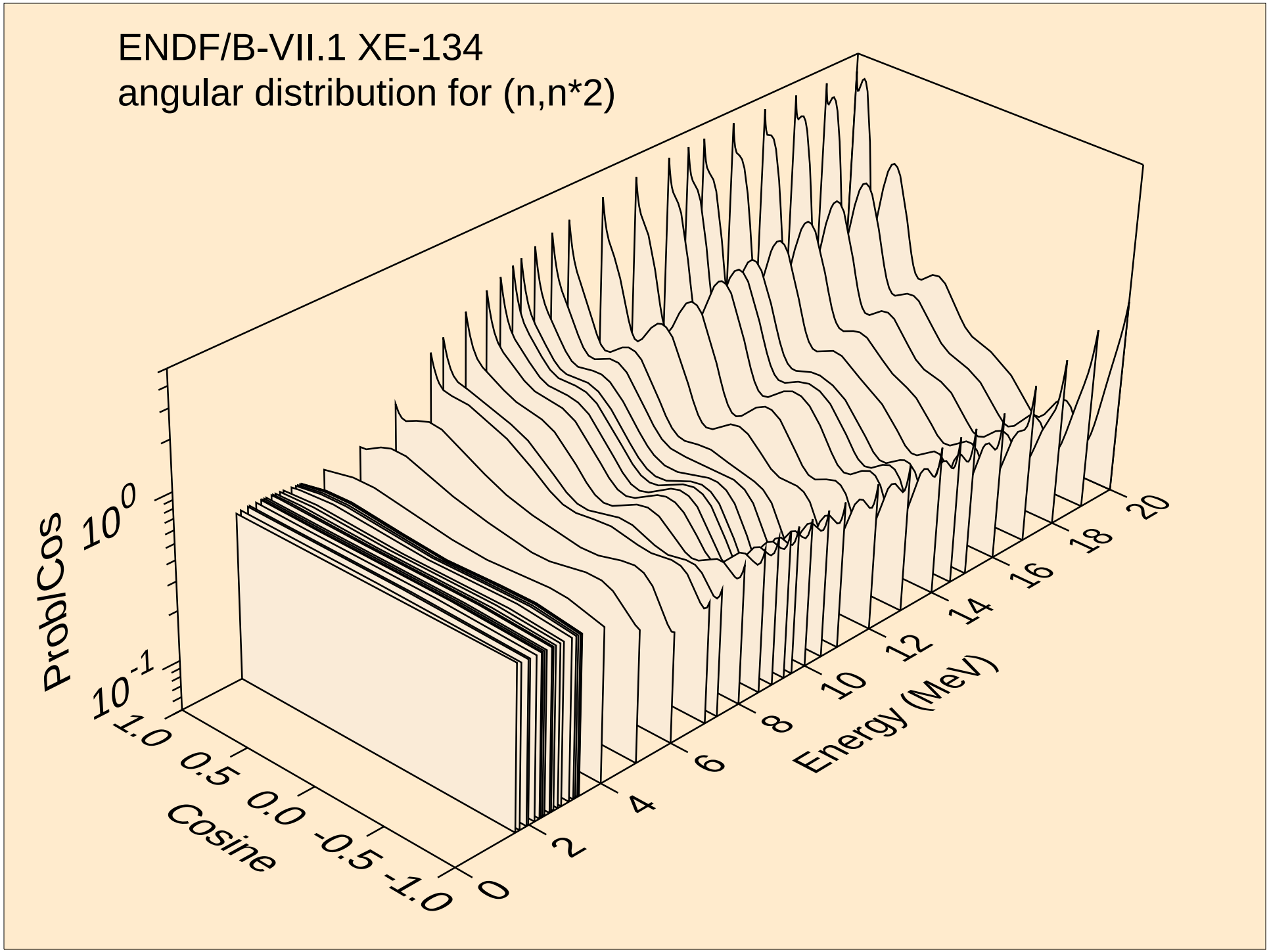

ENDF/B-VII.1 XE-134
angular distribution for (n,2n)
$10^0$
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
8
10
12
14
16
18
20
Energy (MeV)

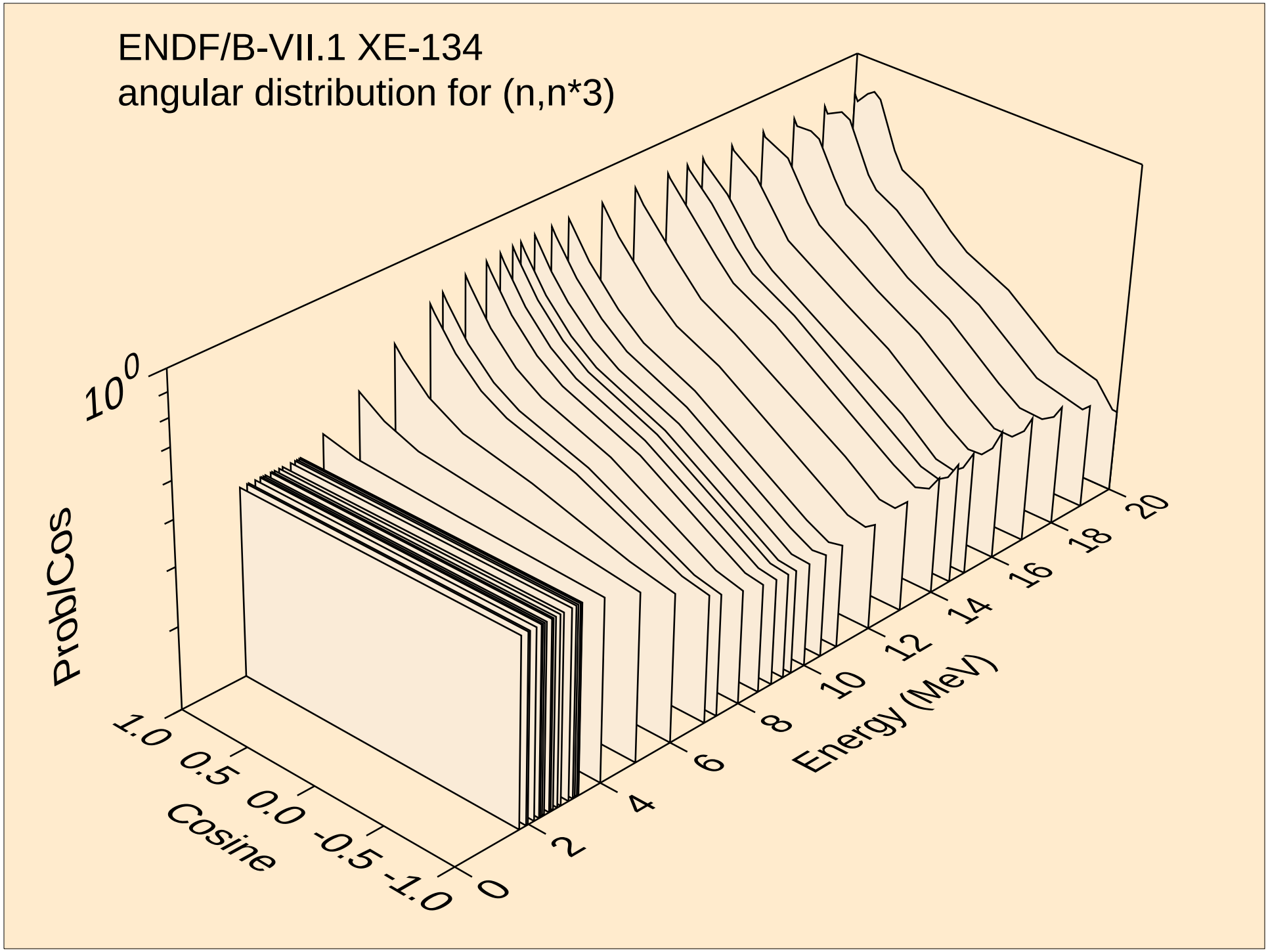

ENDF/B-VII.1 XE-134
angular distribution for (n,3n)
ProbICos
$10^{0}$
$10^{-1}$
1.0
0.5
0.0
-0.5
-1.0
Cosine
15
16
17
18
19
20
Energy (MeV)

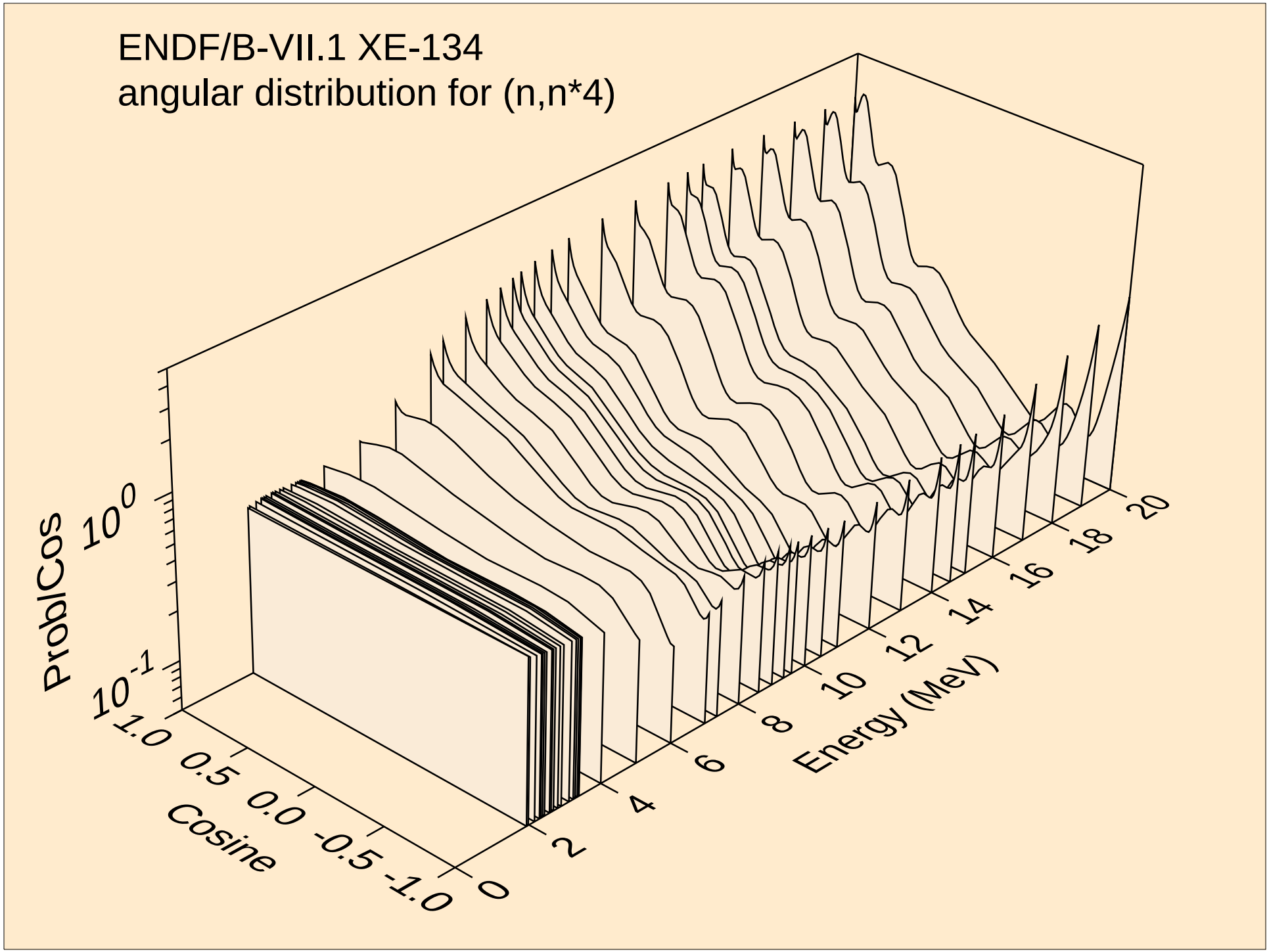

ENDF/B-VII.1 XE-134
angular distribution for (n,n*)a
Prob\Cos
$10^{0}$
$10^{-1}$
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

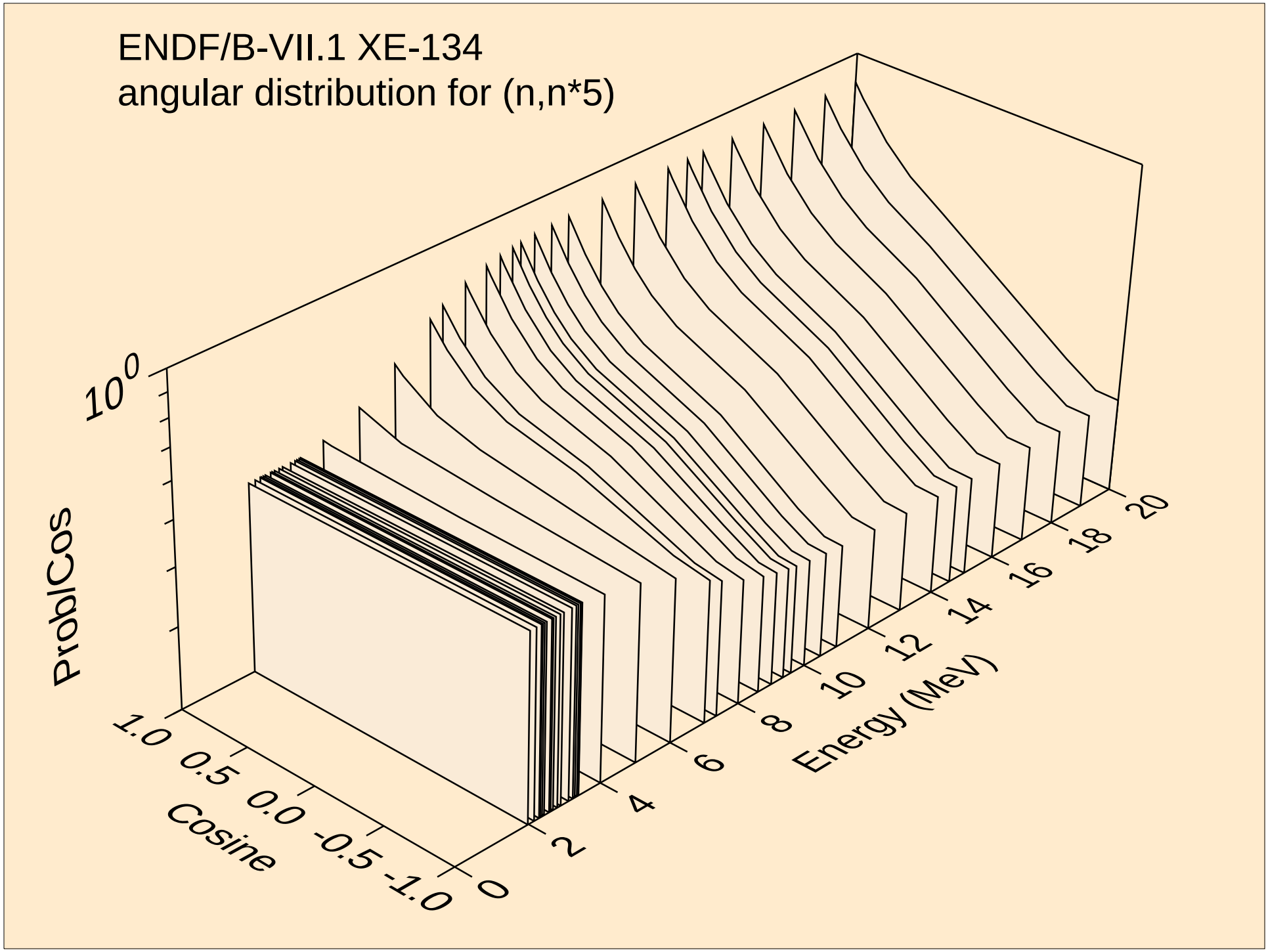

ENDF/B-VII.1 XE-134
angular distribution for (n,n*)p
ProbICos
$10^0$
1.0
0.5
0.0
-0.5
-1.0
Cosine
8
10
12
14
16
18
20
Energy (MeV)

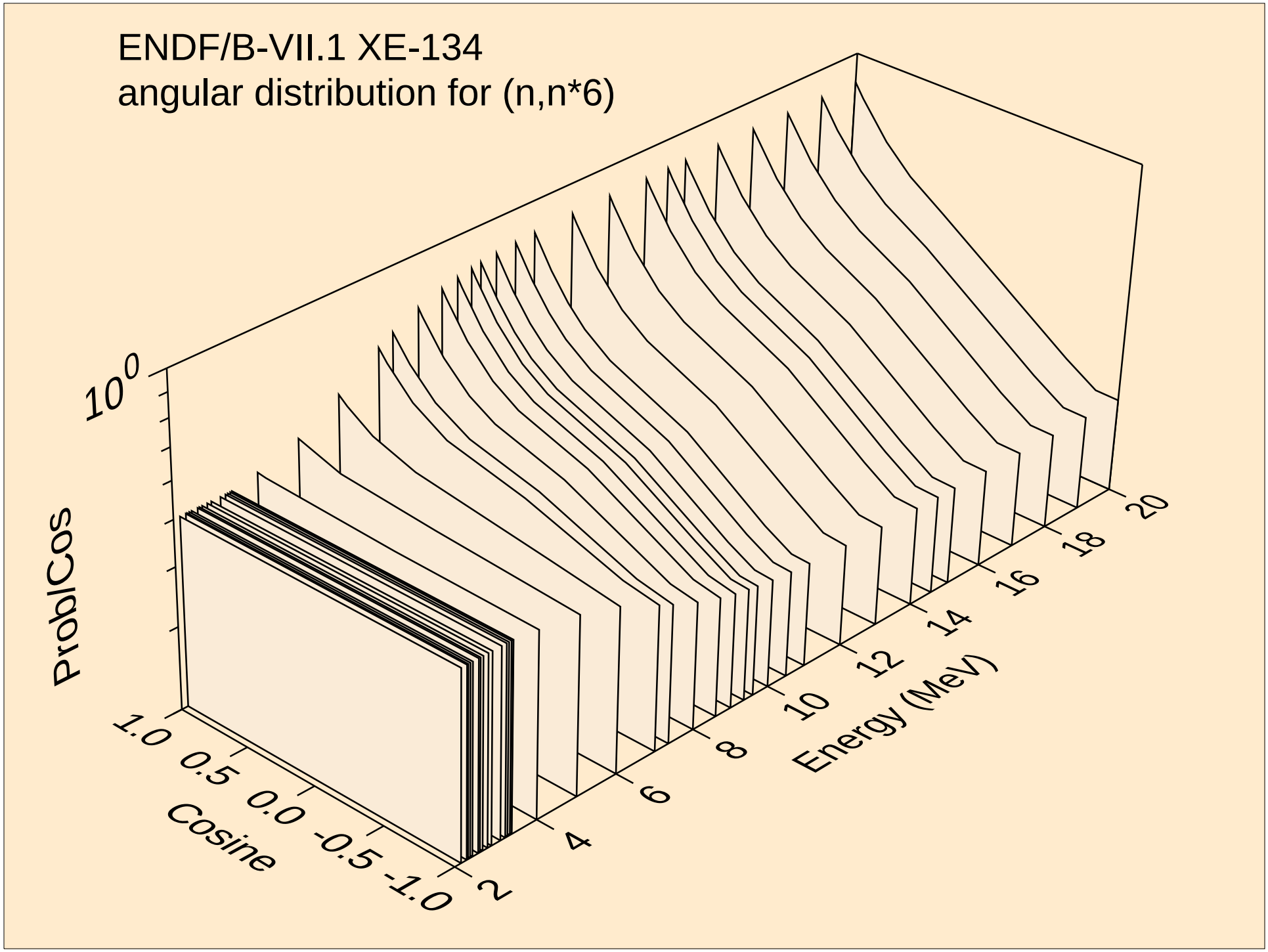

ENDF/B-VII.1 XE-134
angular distribution for (n,n*1)
Prob\Cos
$10^{0}$
$10^{-1}$
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

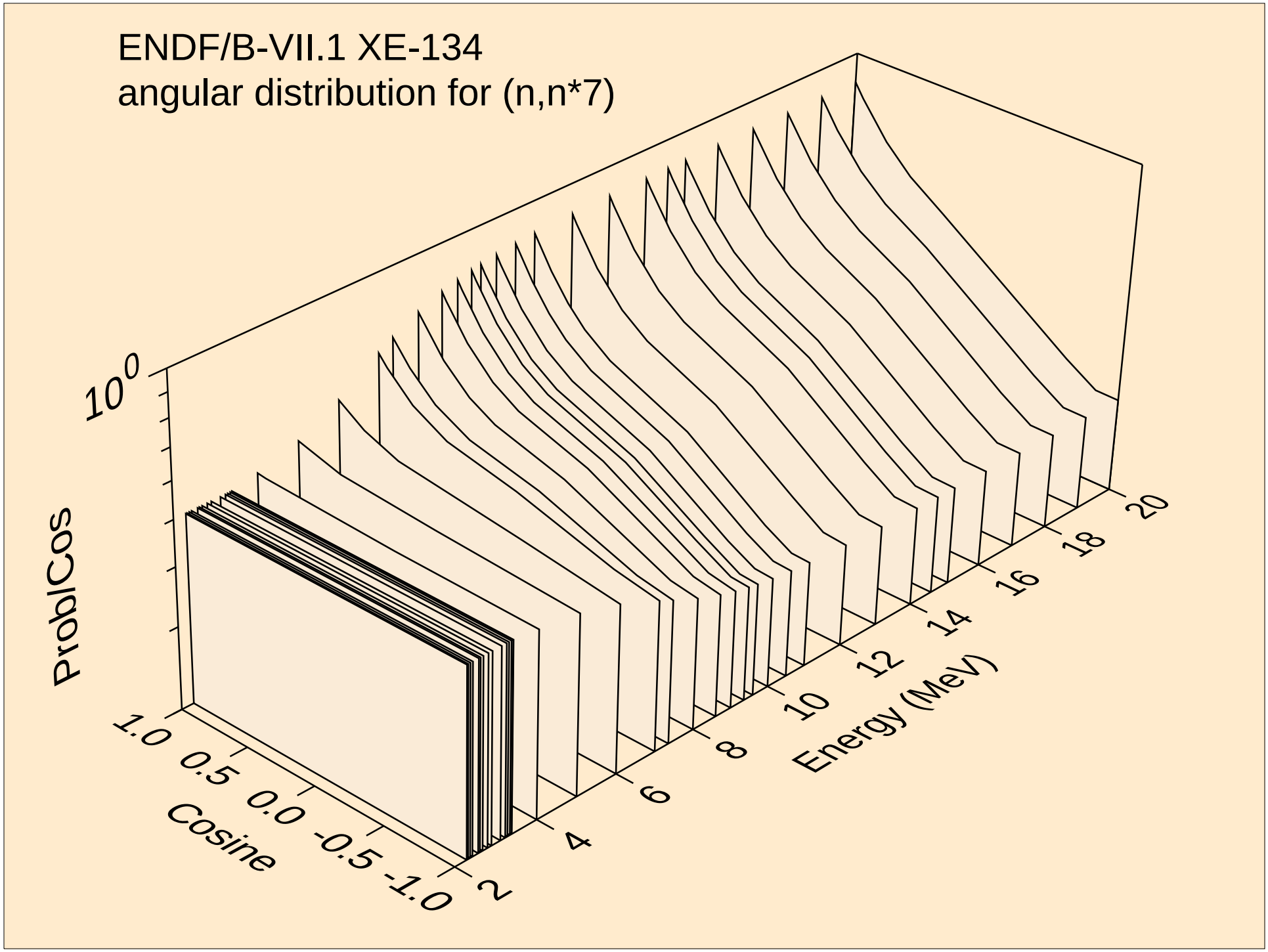

ENDF/B-VII.1 XE-134
angular distribution for (n,n*2)
ProbICos
$10^{0}$
$10^{-1}$
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

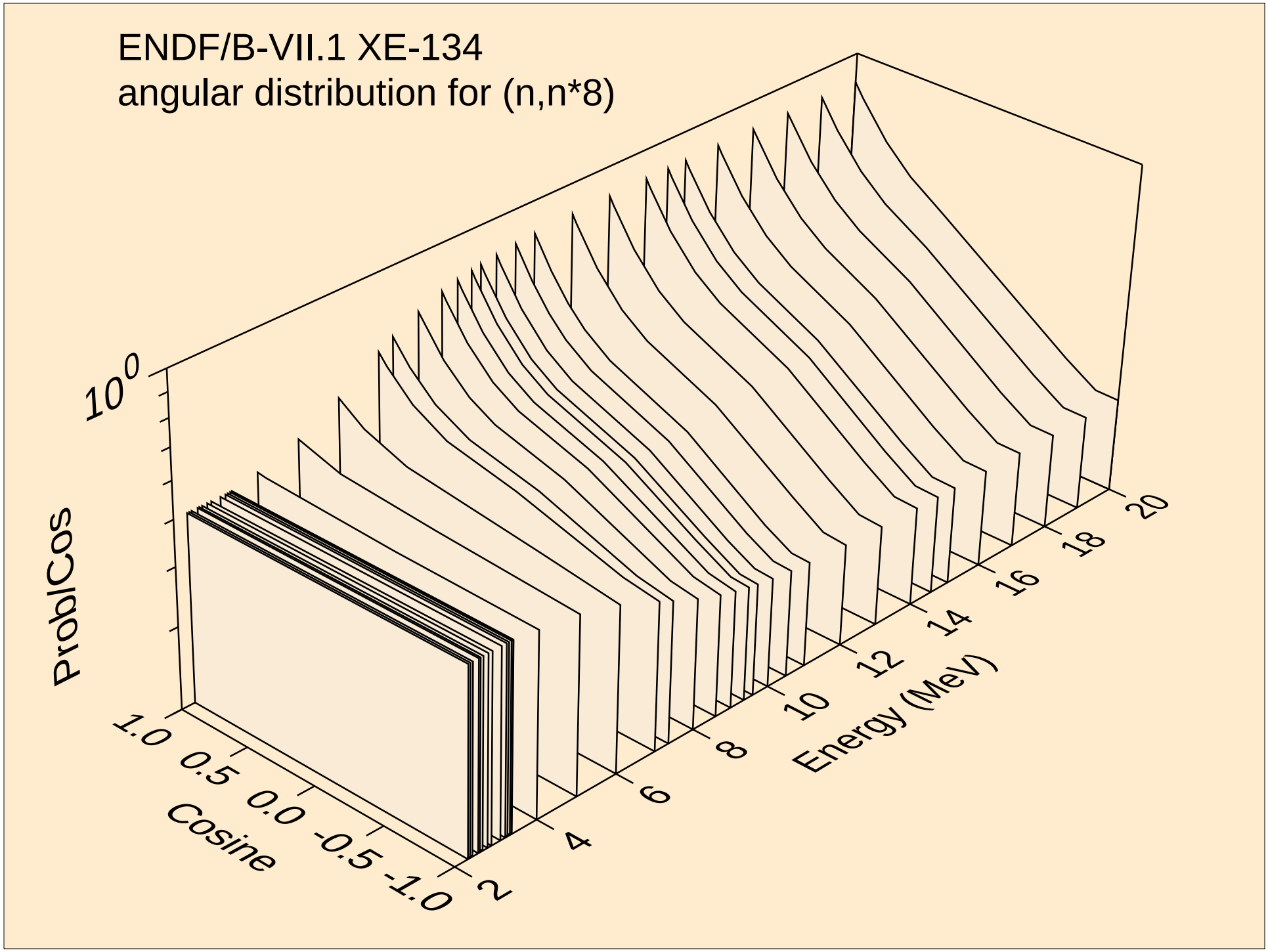

ENDF/B-VII.1 XE-134
angular distribution for (n,n*3)
$10^0$
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

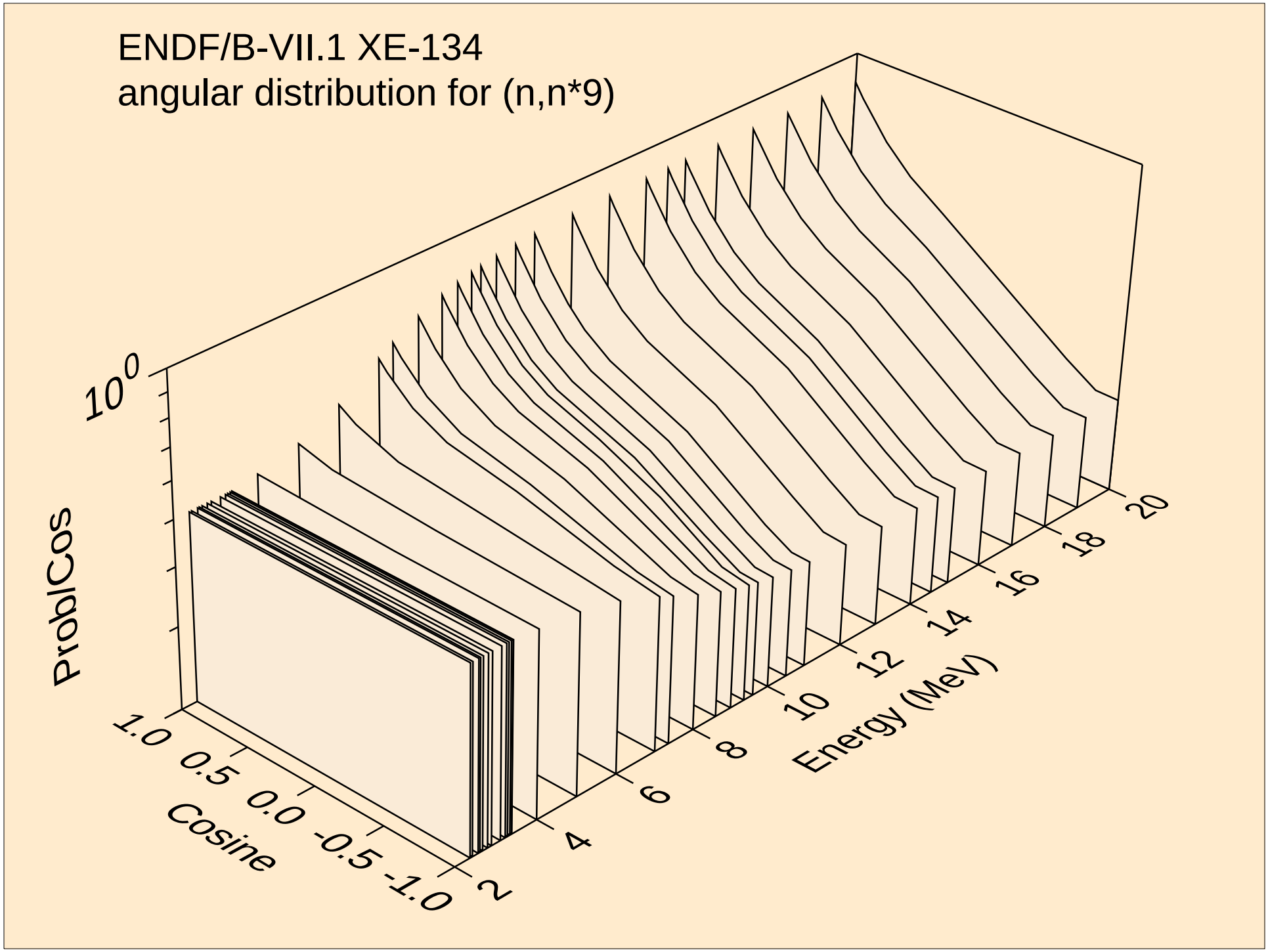

ENDF/B-VII.1 XE-134
angular distribution for (n,n*4)
Prob\Cos
$10^{0}$
$10^{-1}$
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

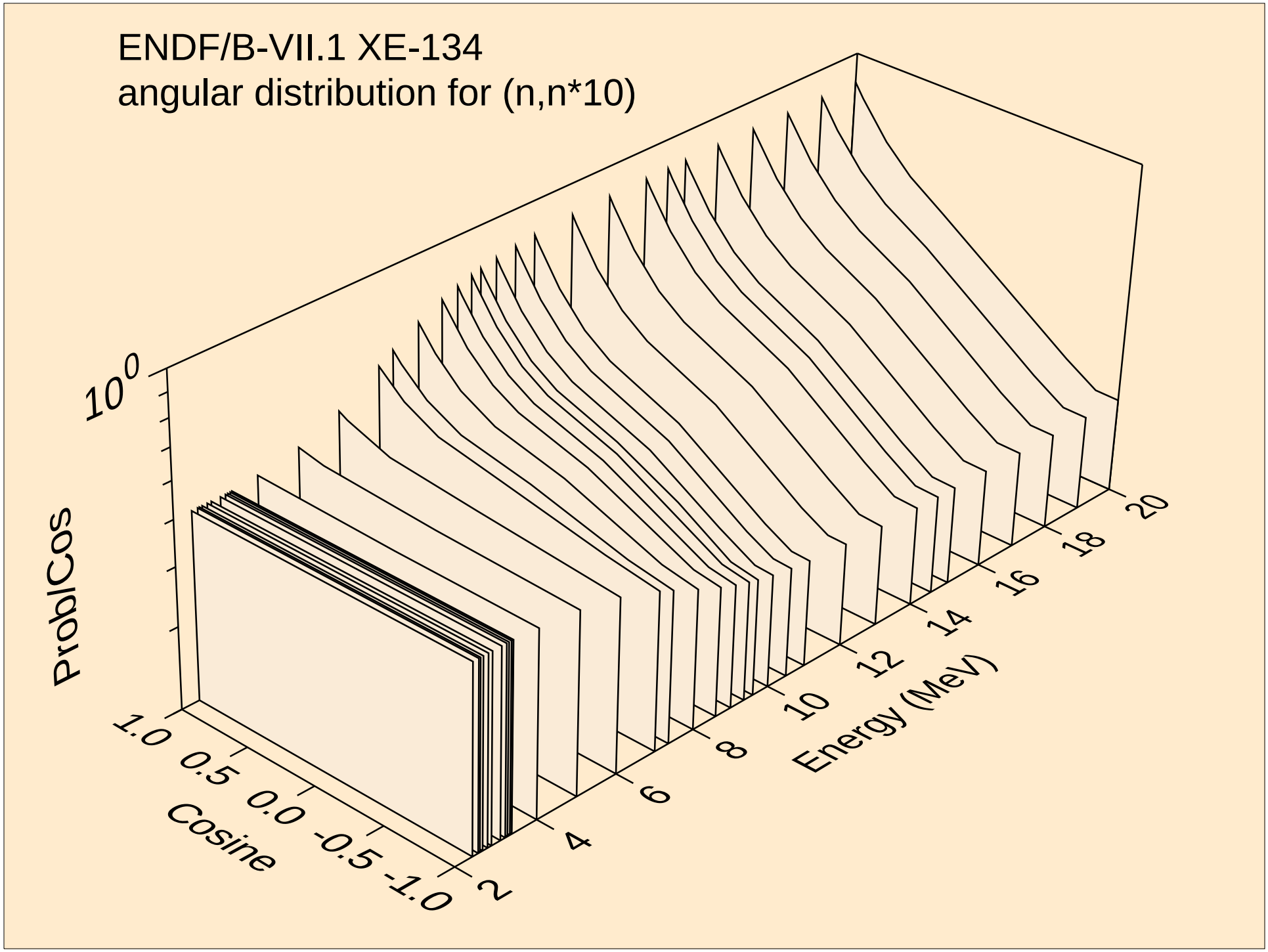

ENDF/B-VII.1 XE-134
angular distribution for (n,n*5)
$10^0$
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

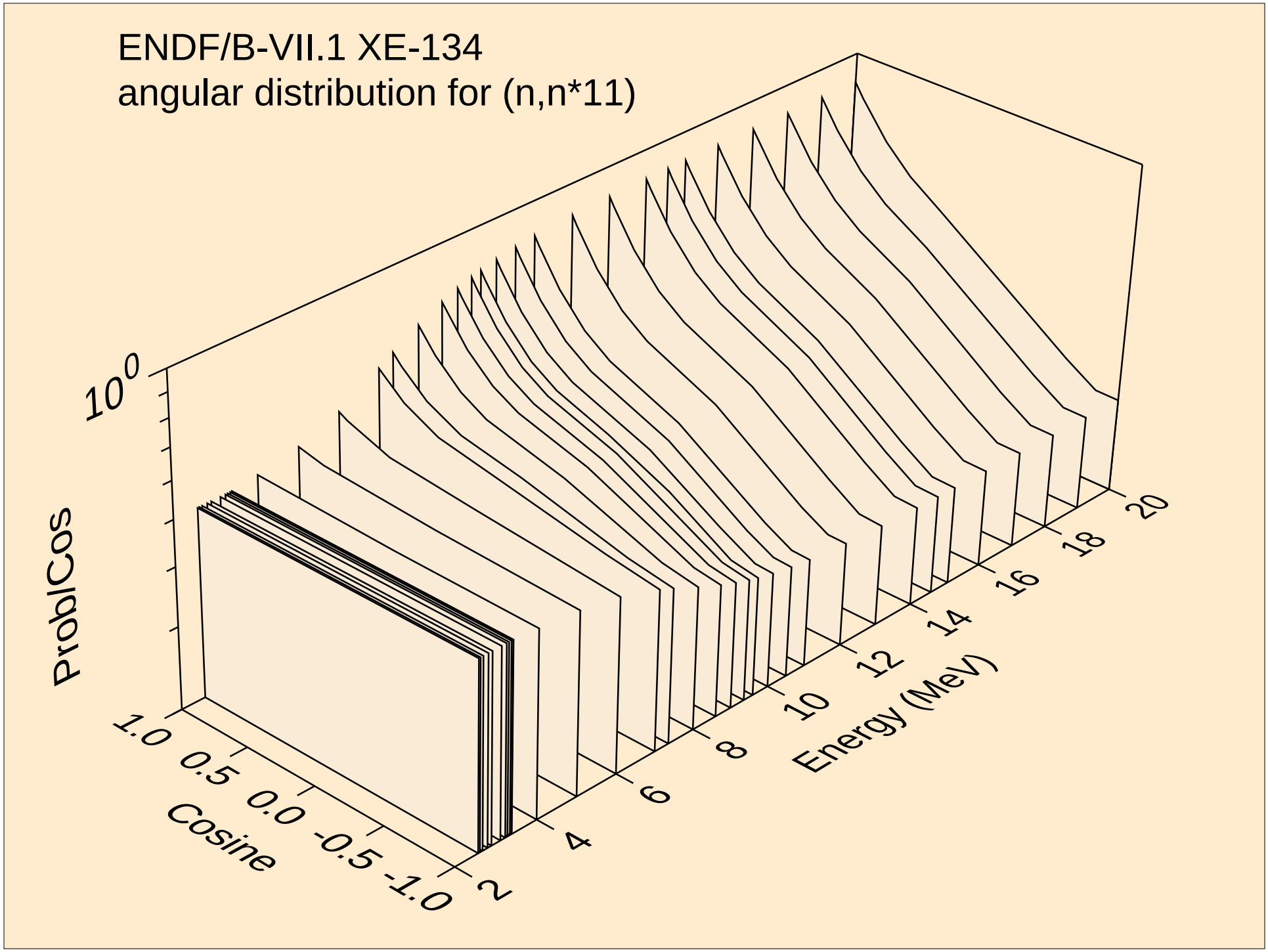

ENDF/B-VII.1 XE-134
angular distribution for (n,n*6)
$10^0$
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

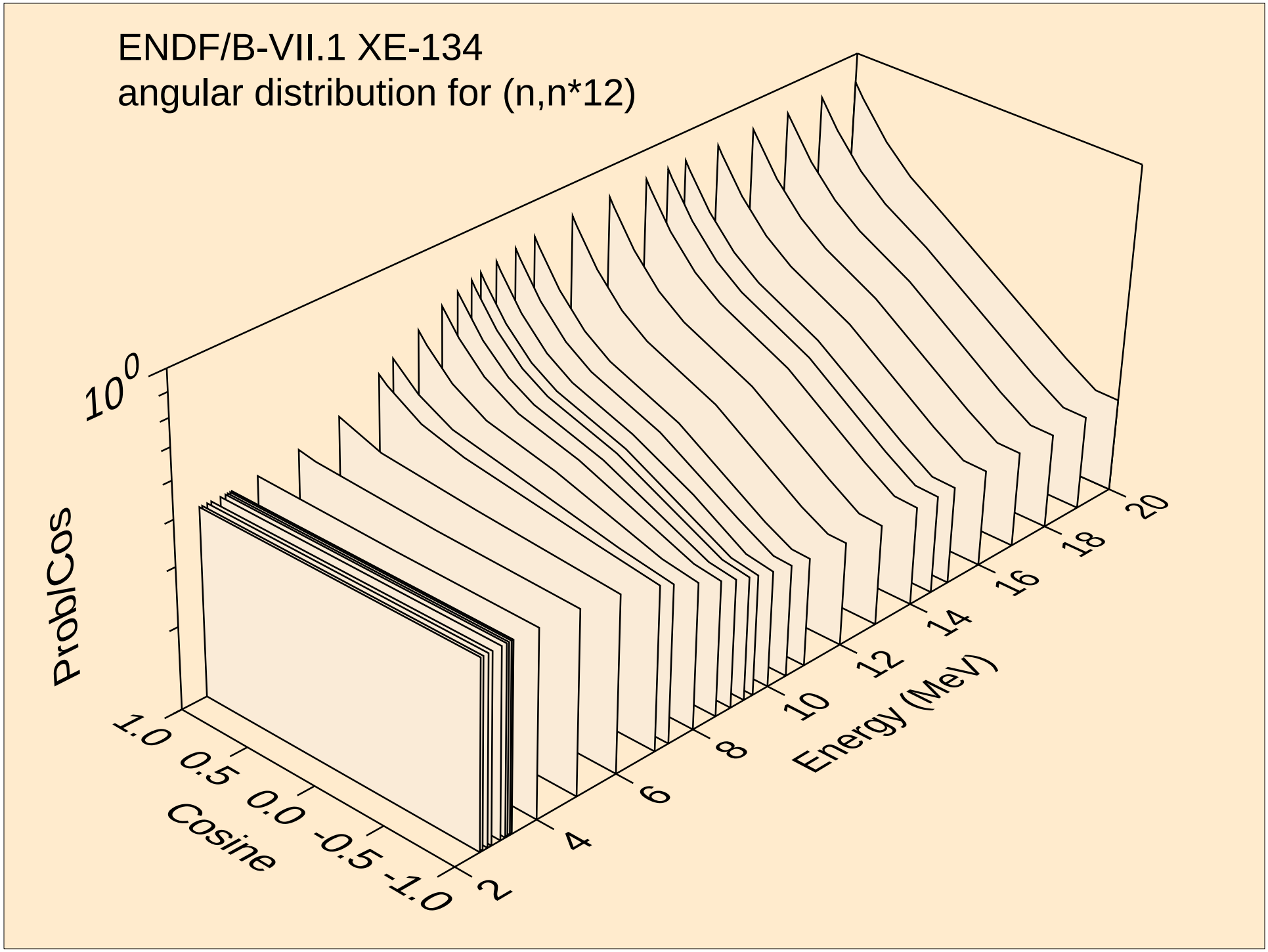

ENDF/B-VII.1 XE-134
angular distribution for (n,n*7)
$10^0$
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

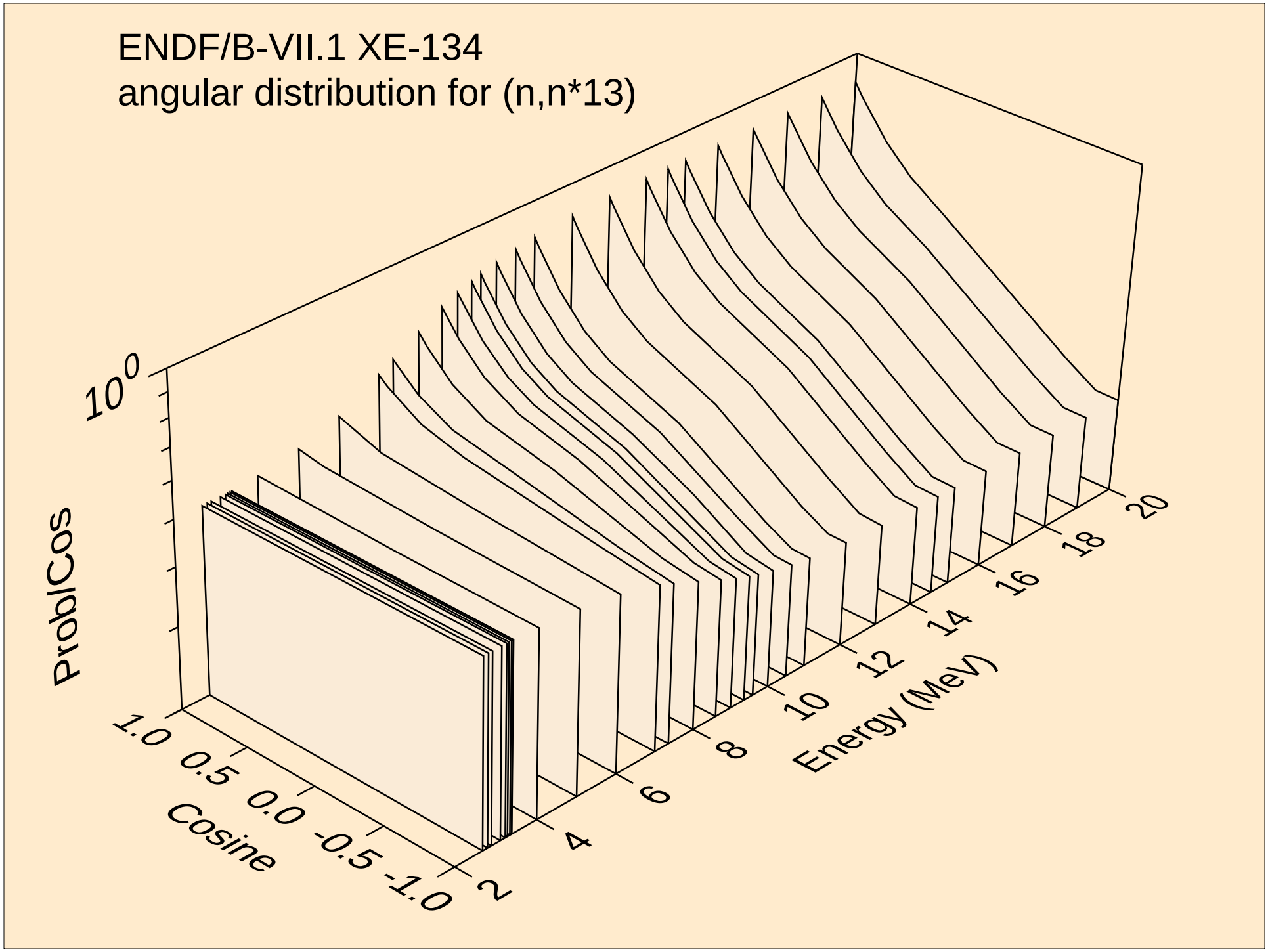

ENDF/B-VII.1 XE-134
angular distribution for (n,n*8)
$10^0$
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

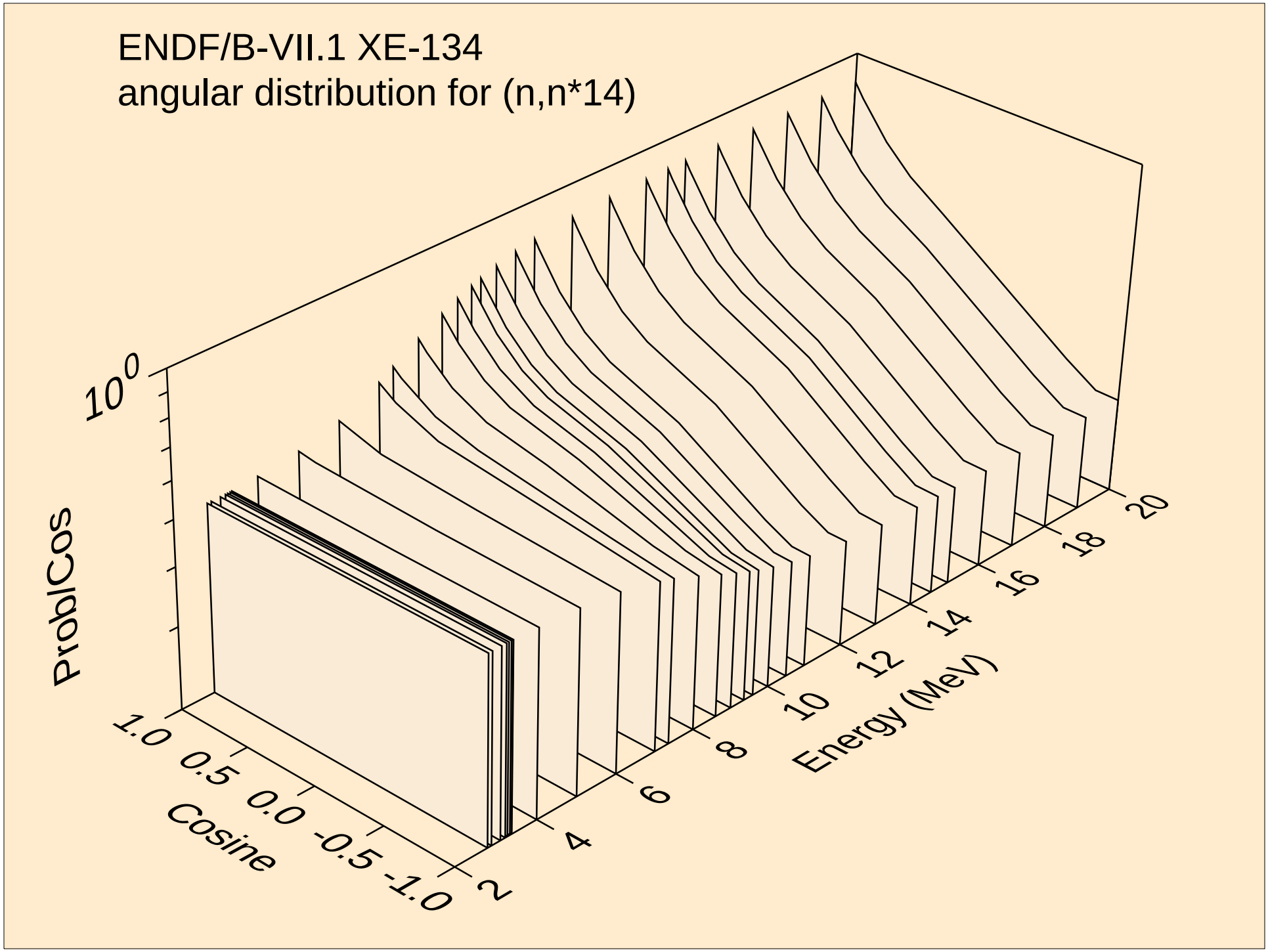

ENDF/B-VII.1 XE-134
angular distribution for (n,n*9)
$10^0$
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

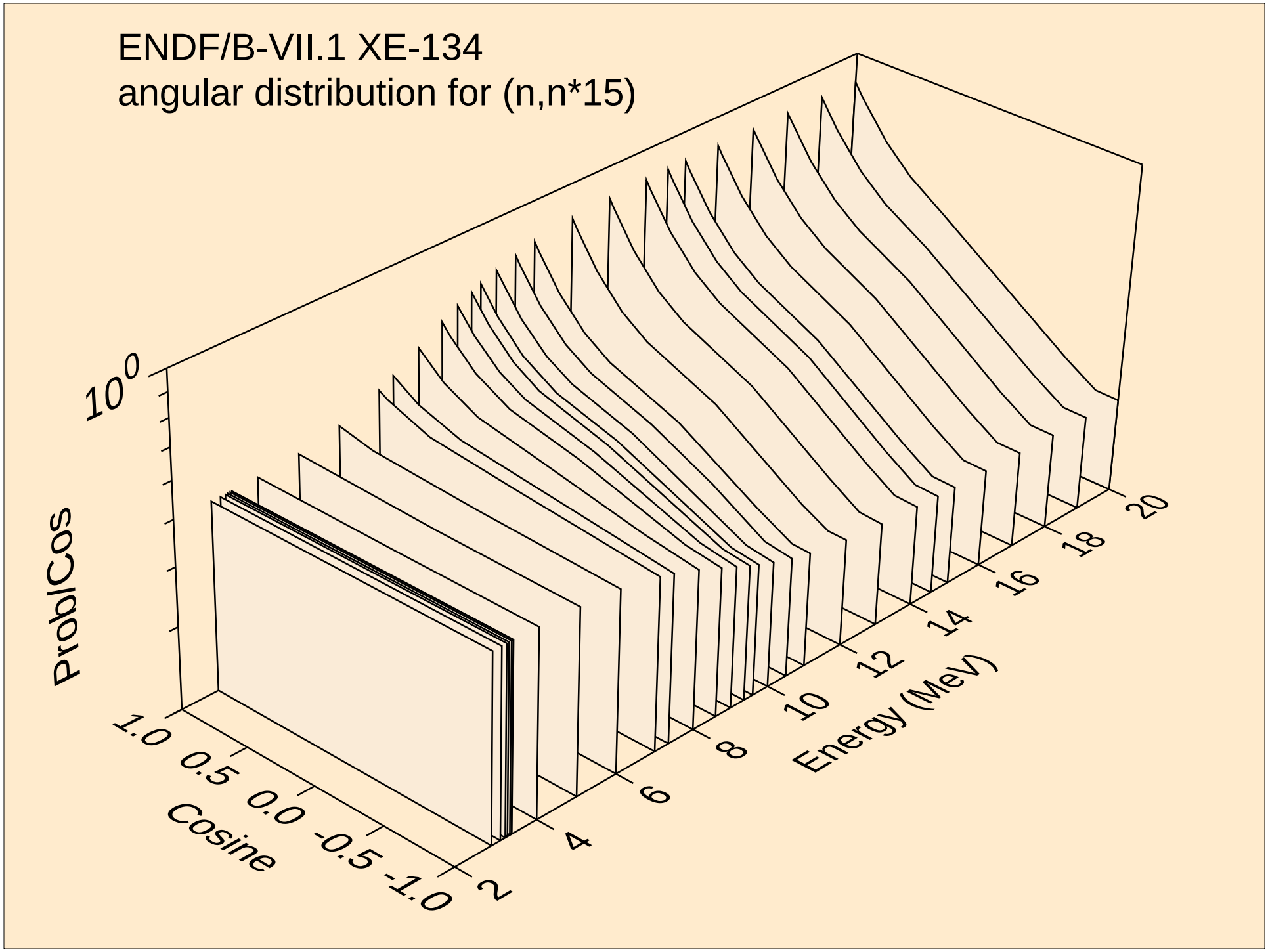

ENDF/B-VII.1 XE-134
angular distribution for (n,n*10)
$10^0$
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

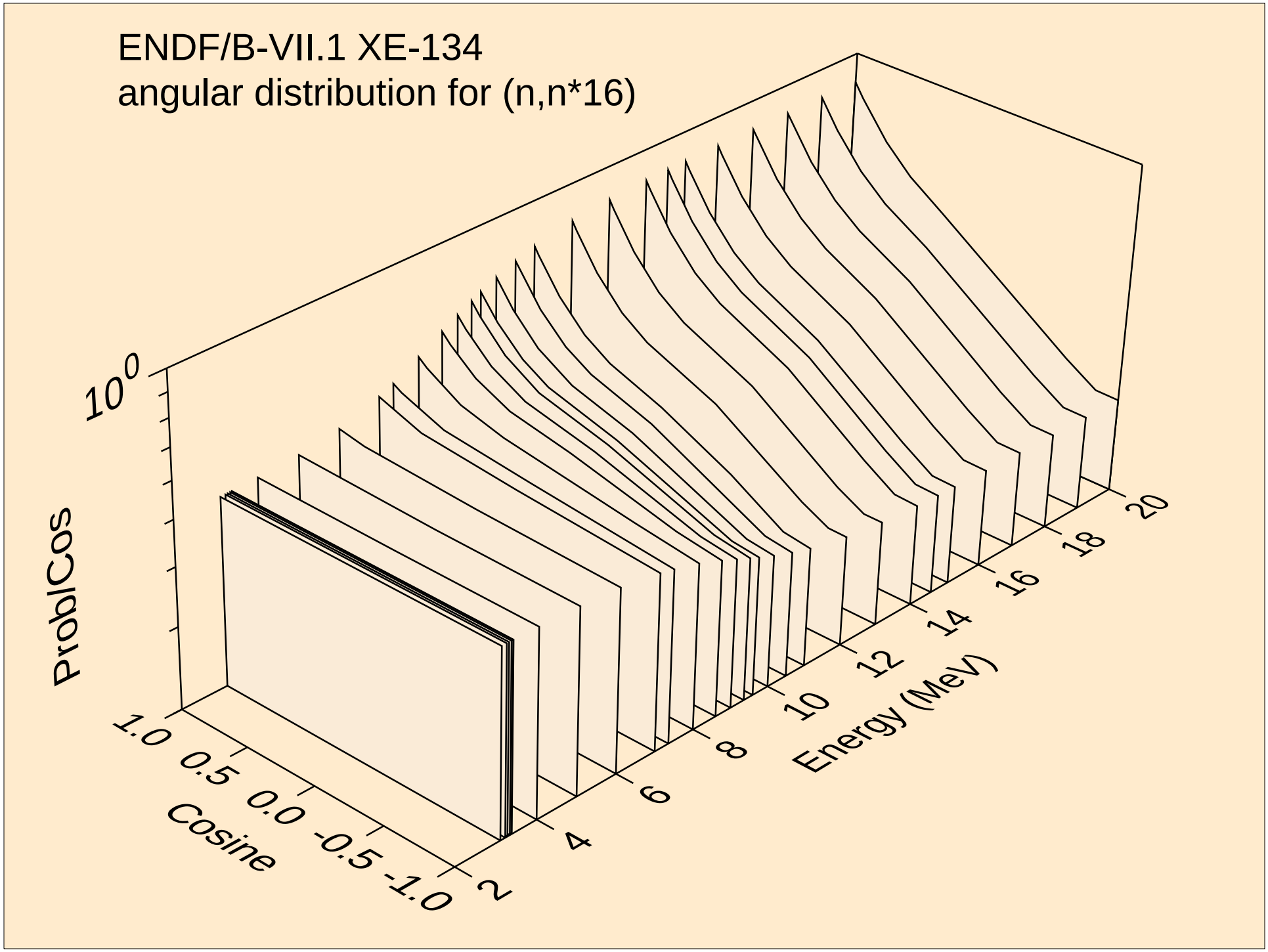

ENDF/B-VII.1 XE-134
angular distribution for (n,n*11)
$10^0$
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

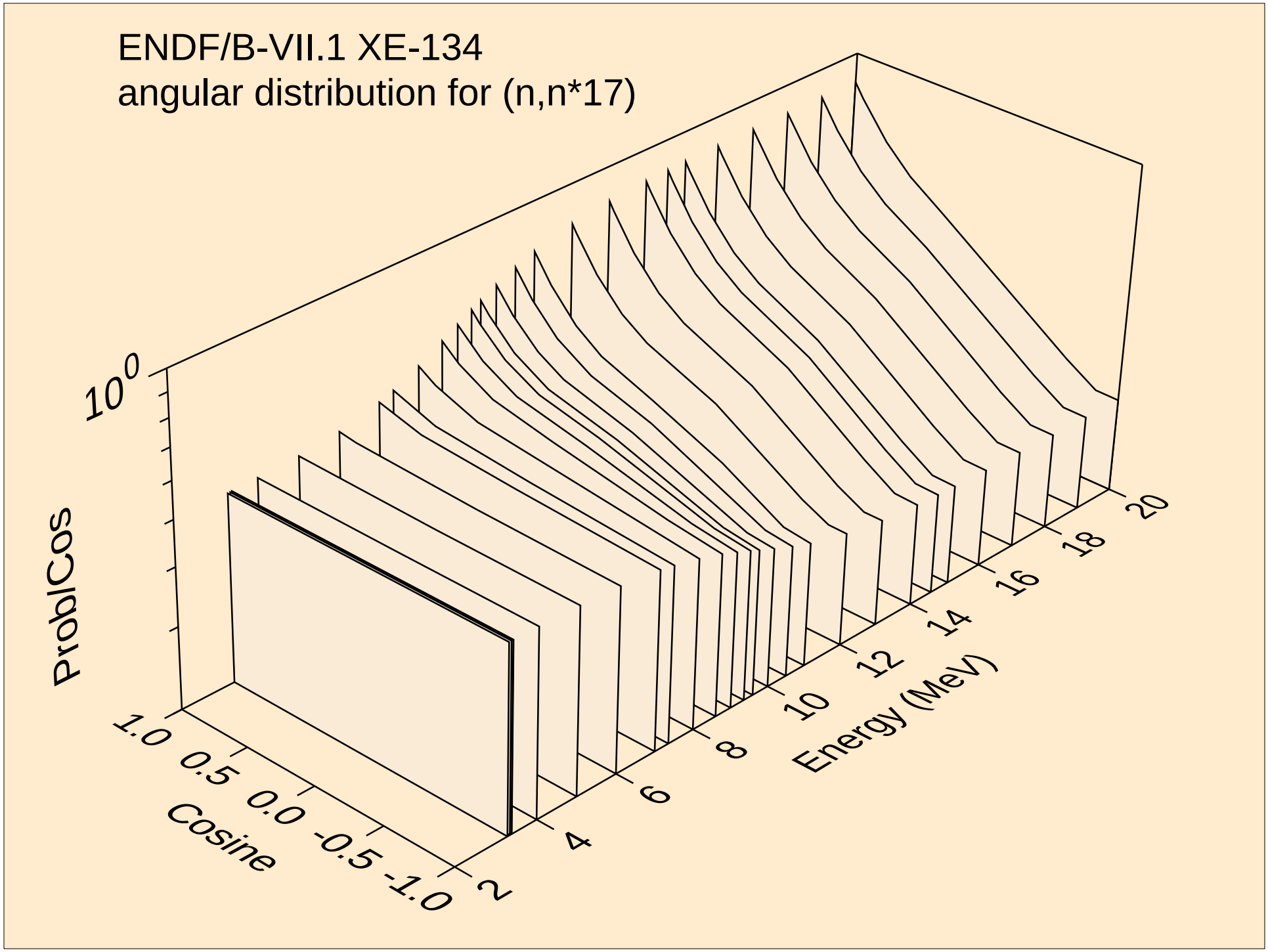

ENDF/B-VII.1 XE-134
angular distribution for (n,n*12)
$10^0$
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

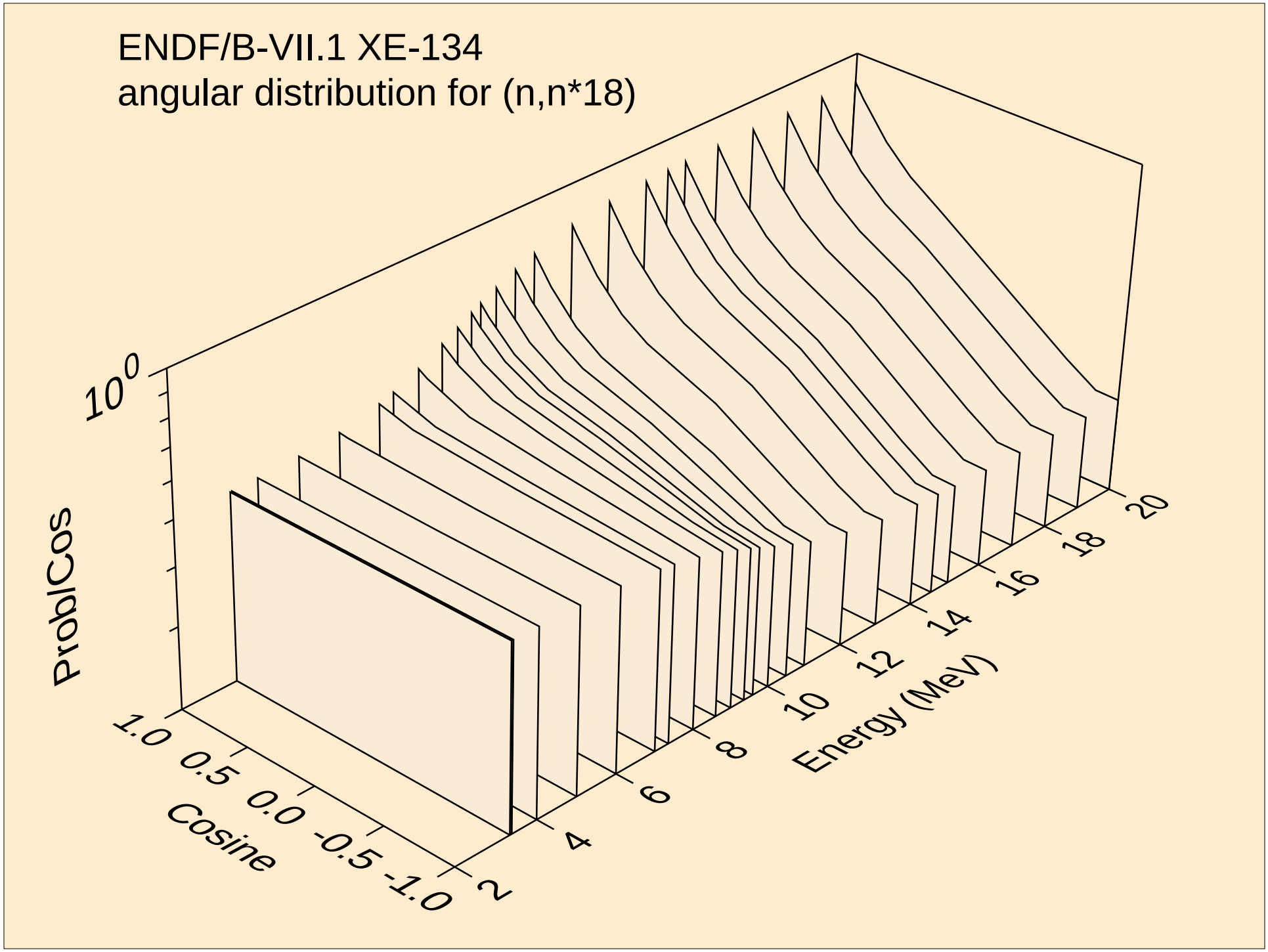

ENDF/B-VII.1 XE-134
angular distribution for (n,n*13)
$10^0$
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

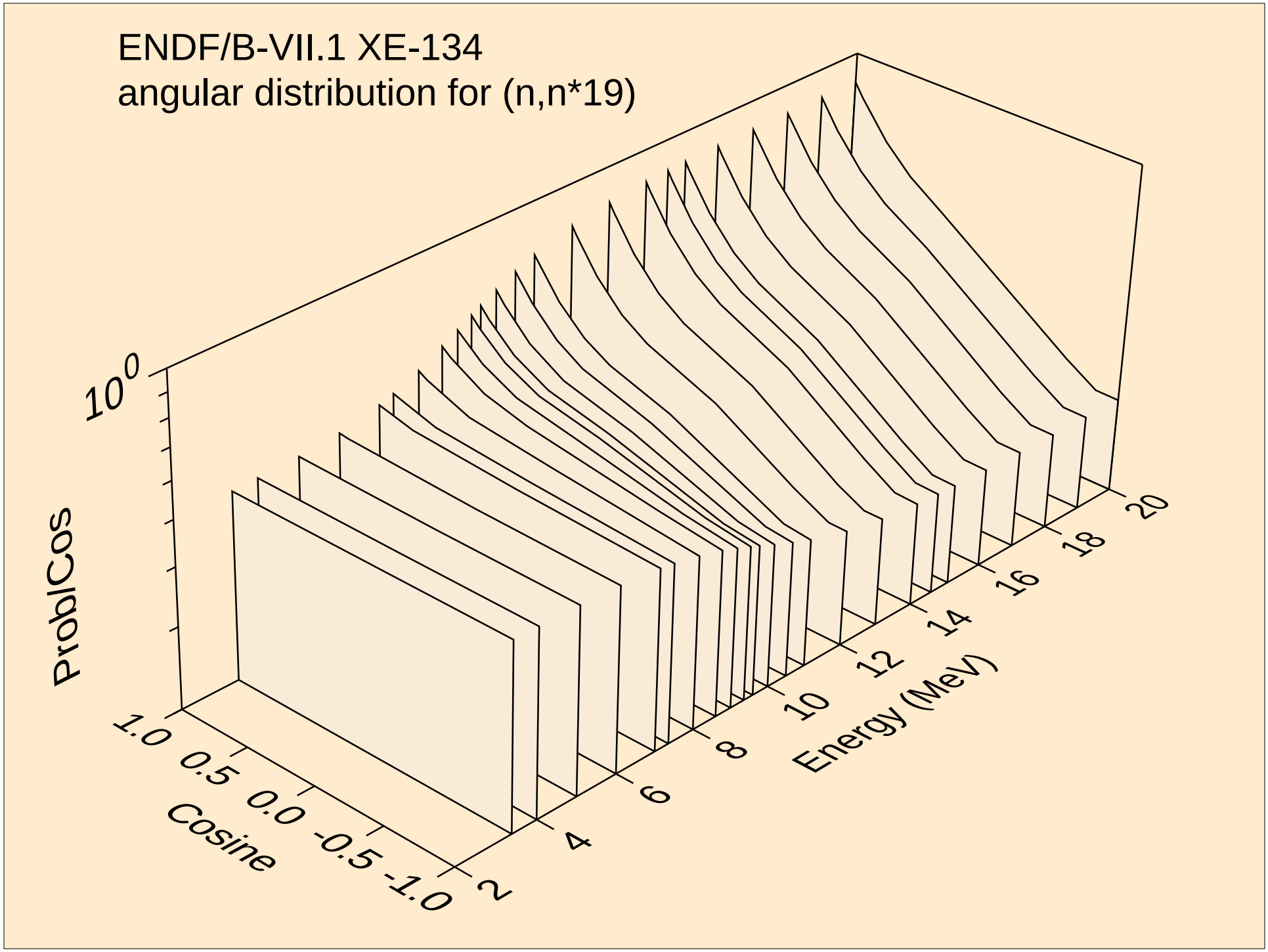

ENDF/B-VII.1 XE-134
angular distribution for (n,n*14)
$10^0$
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

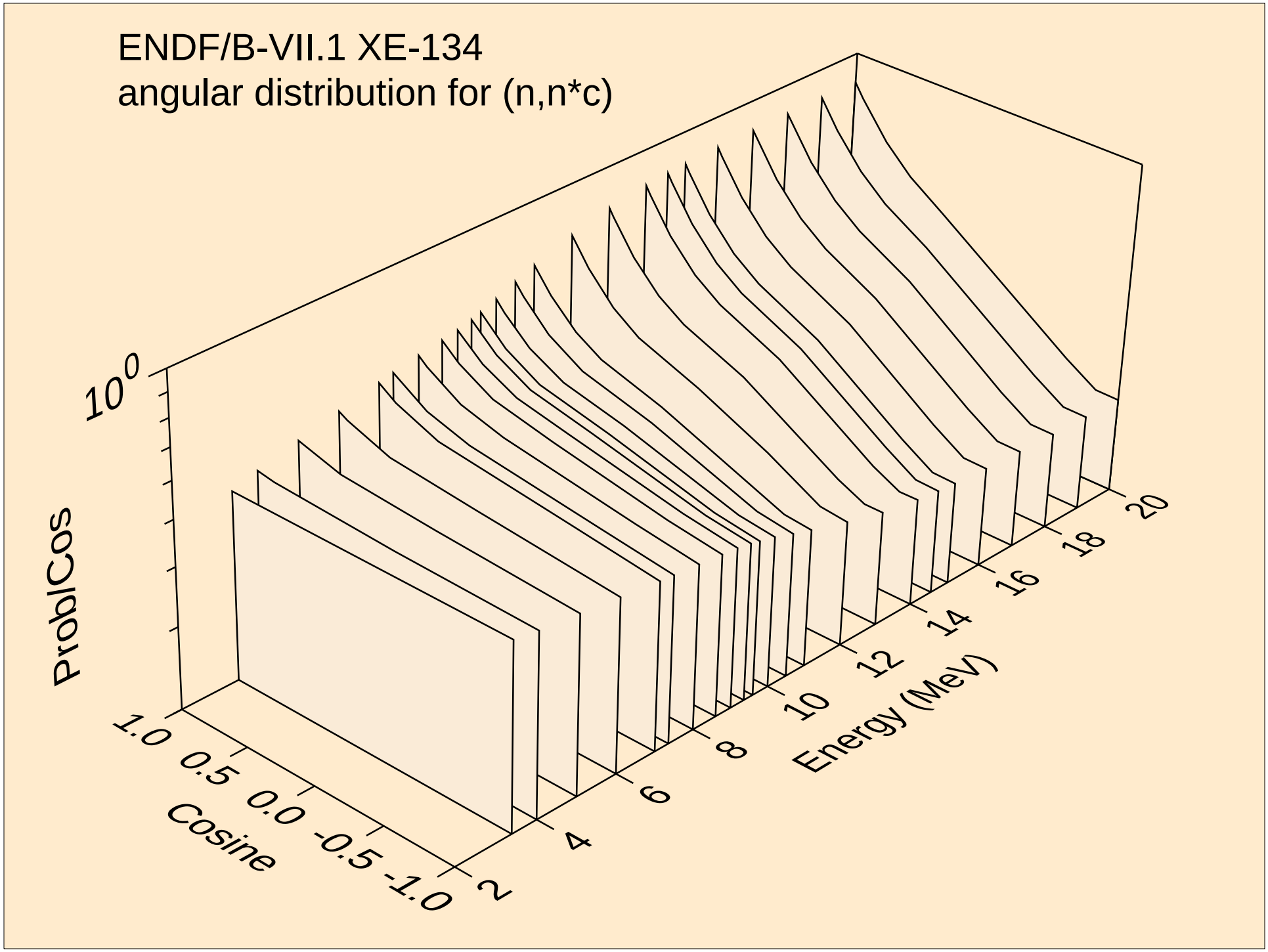

ENDF/B-VII.1 XE-134
angular distribution for (n,n*15)
$10^0$
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

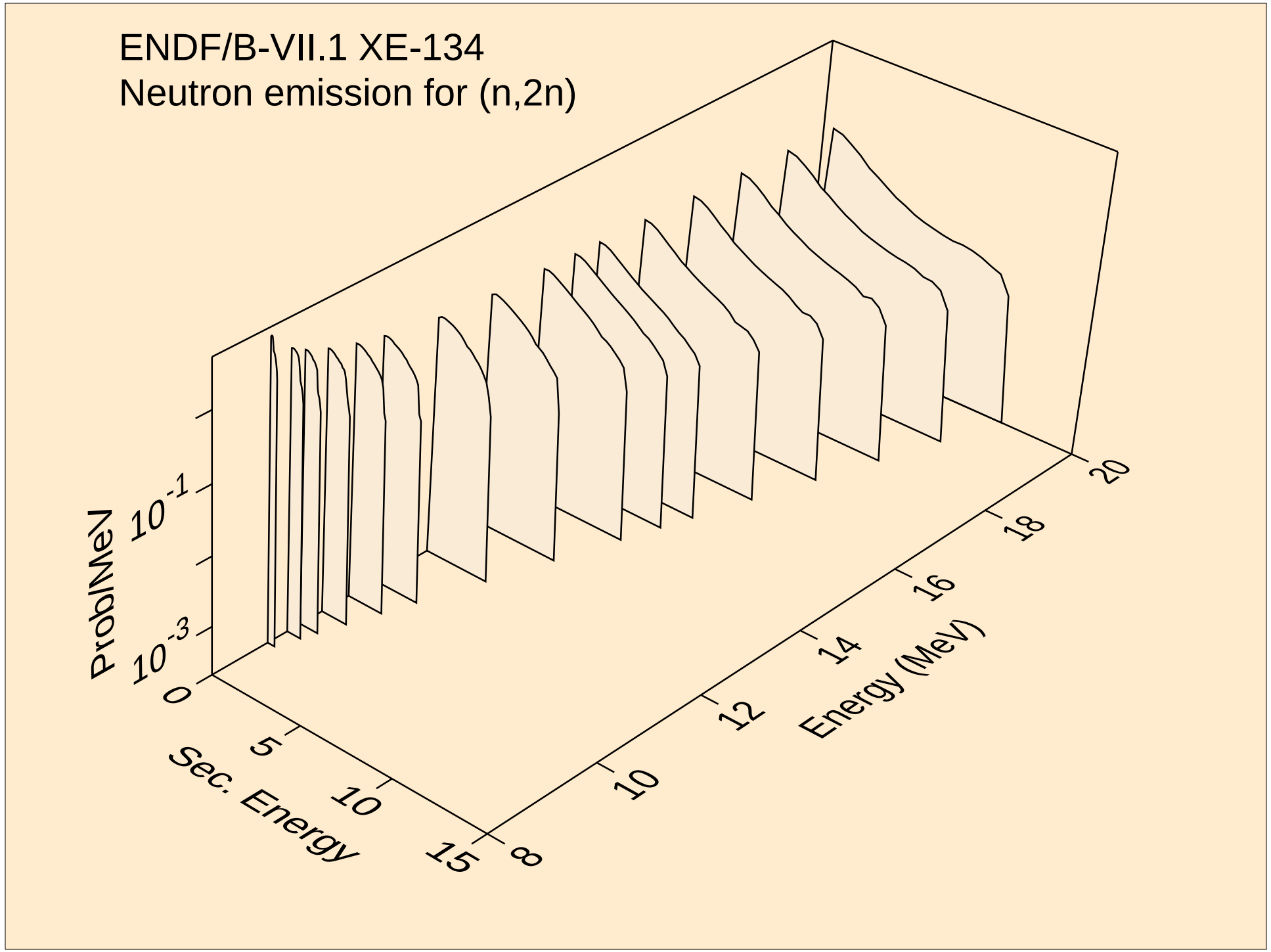

ENDF/B-VII.1 XE-134
angular distribution for (n,n*16)
$10^0$
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

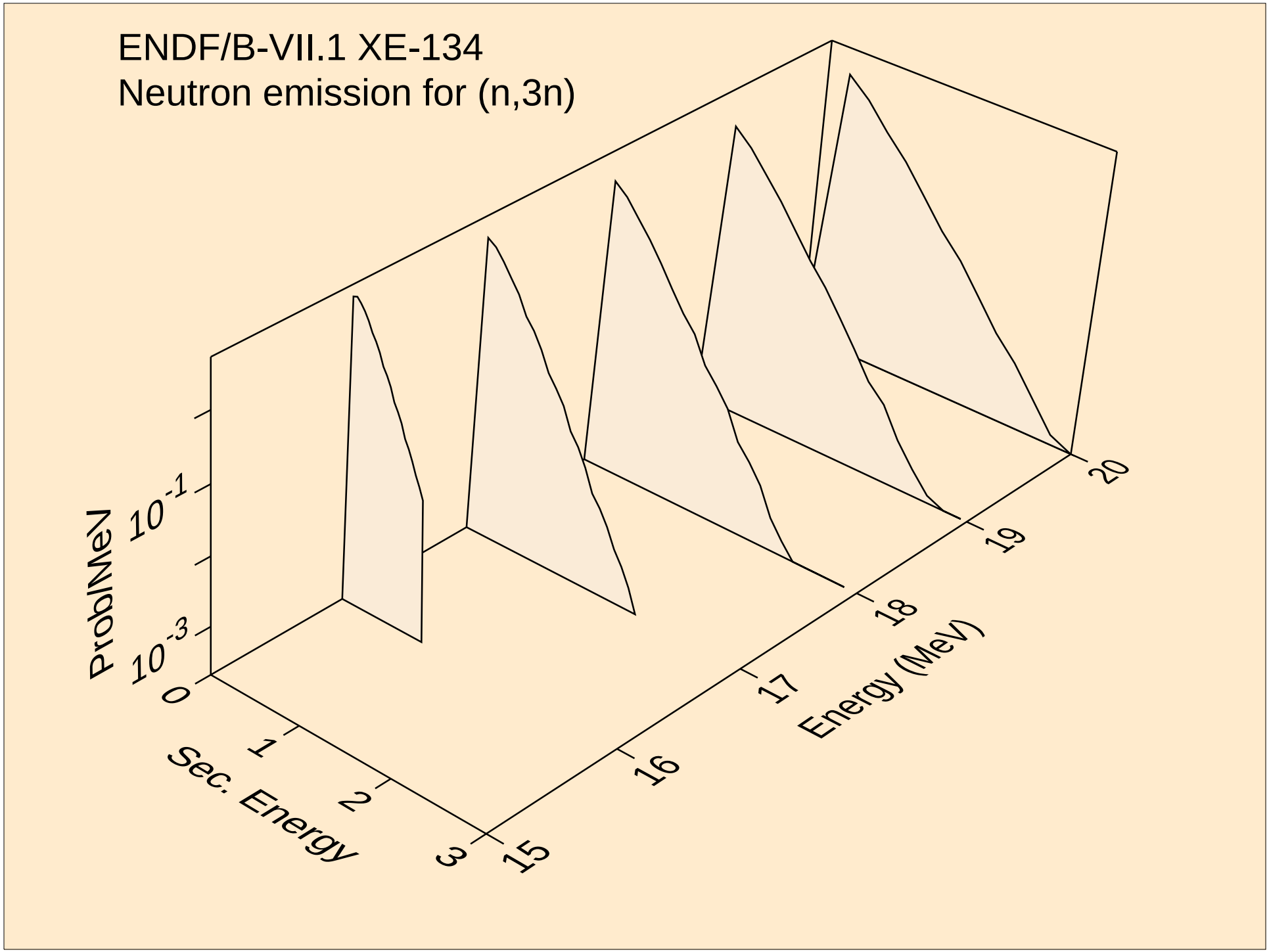

ENDF/B-VII.1 XE-134
angular distribution for (n,n*17)
$10^0$
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

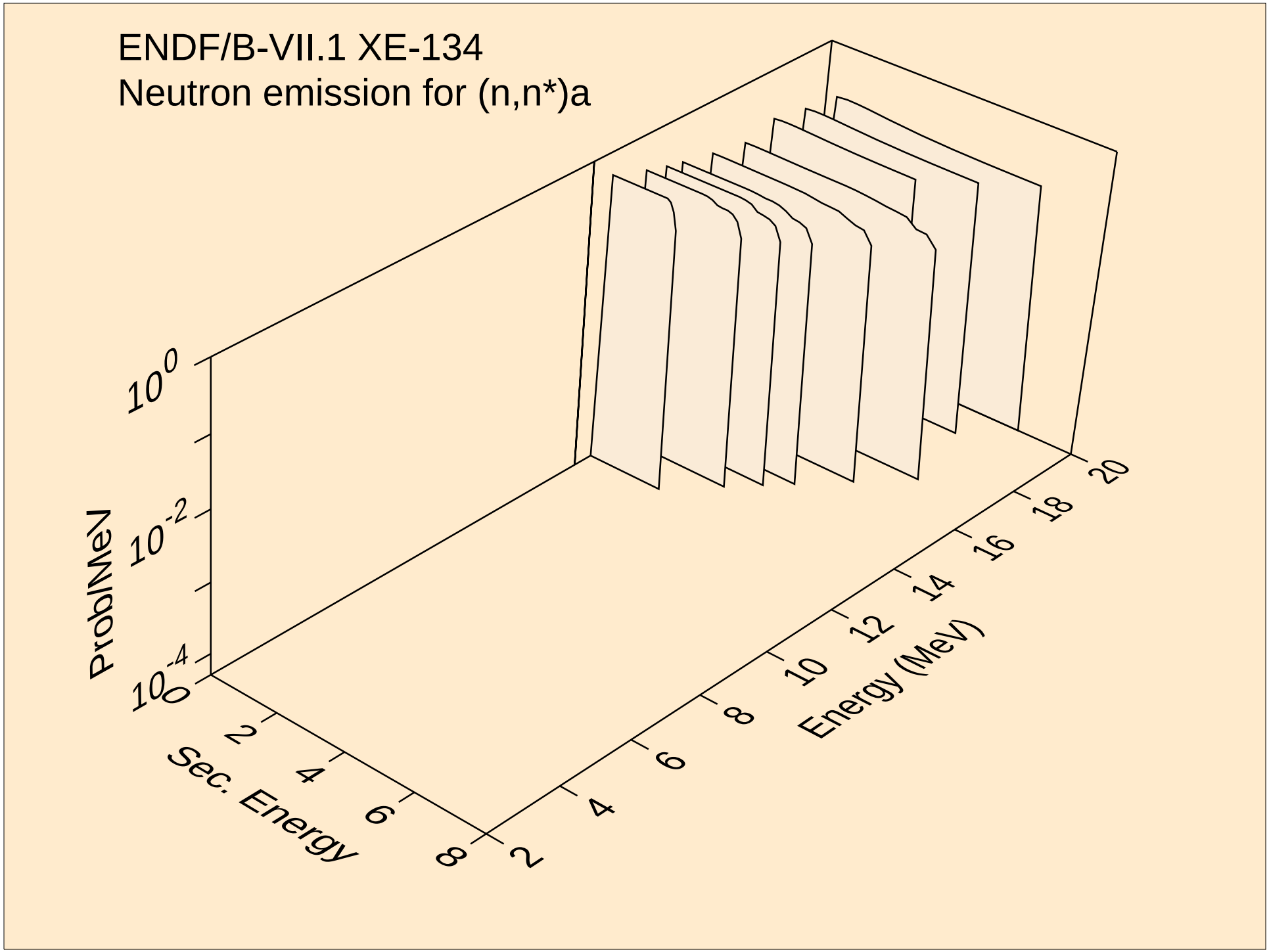

ENDF/B-VII.1 XE-134
angular distribution for (n,n*18)
$10^0$
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

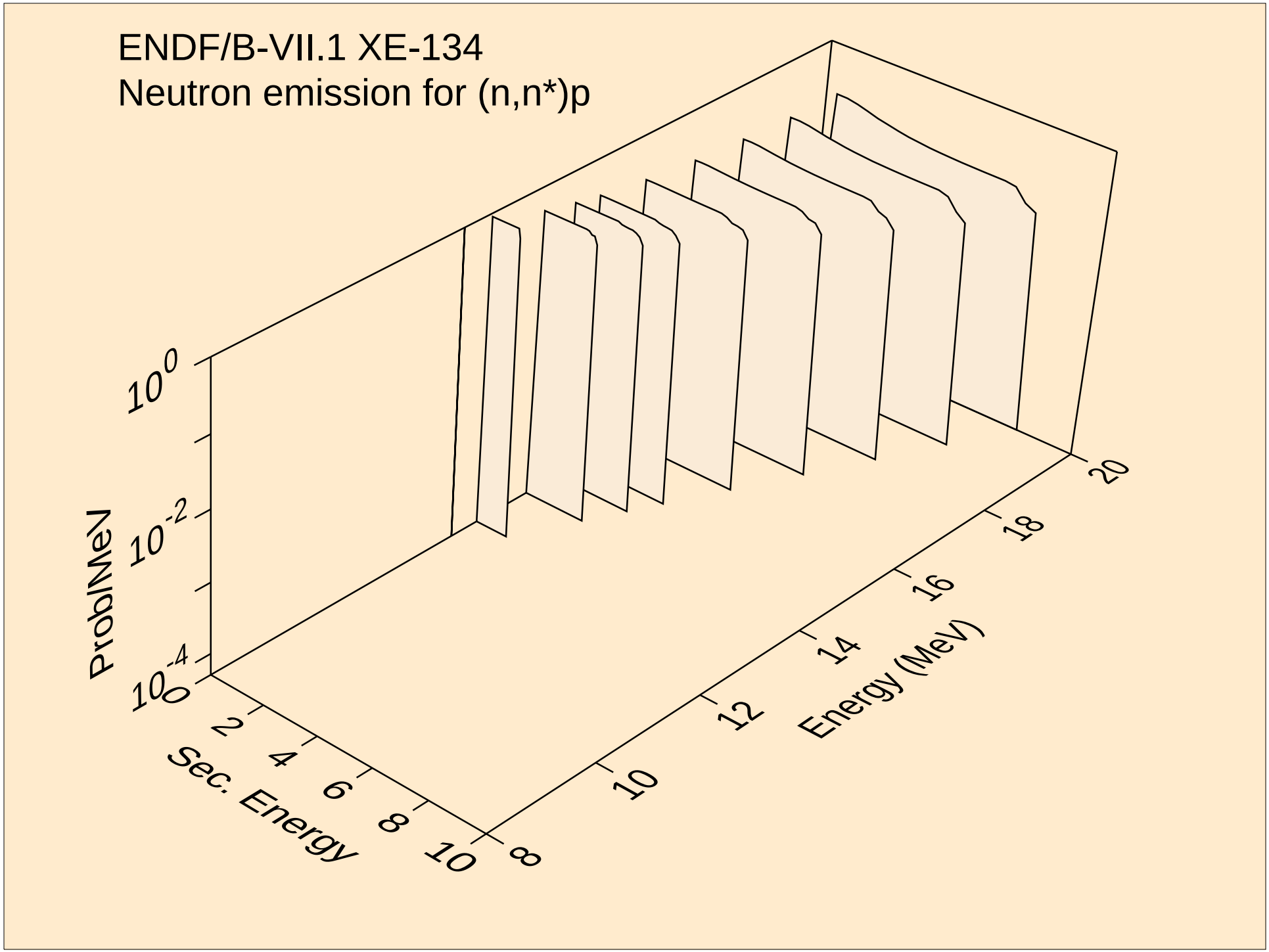

ENDF/B-VII.1 XE-134
angular distribution for (n,n*19)
$10^0$
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

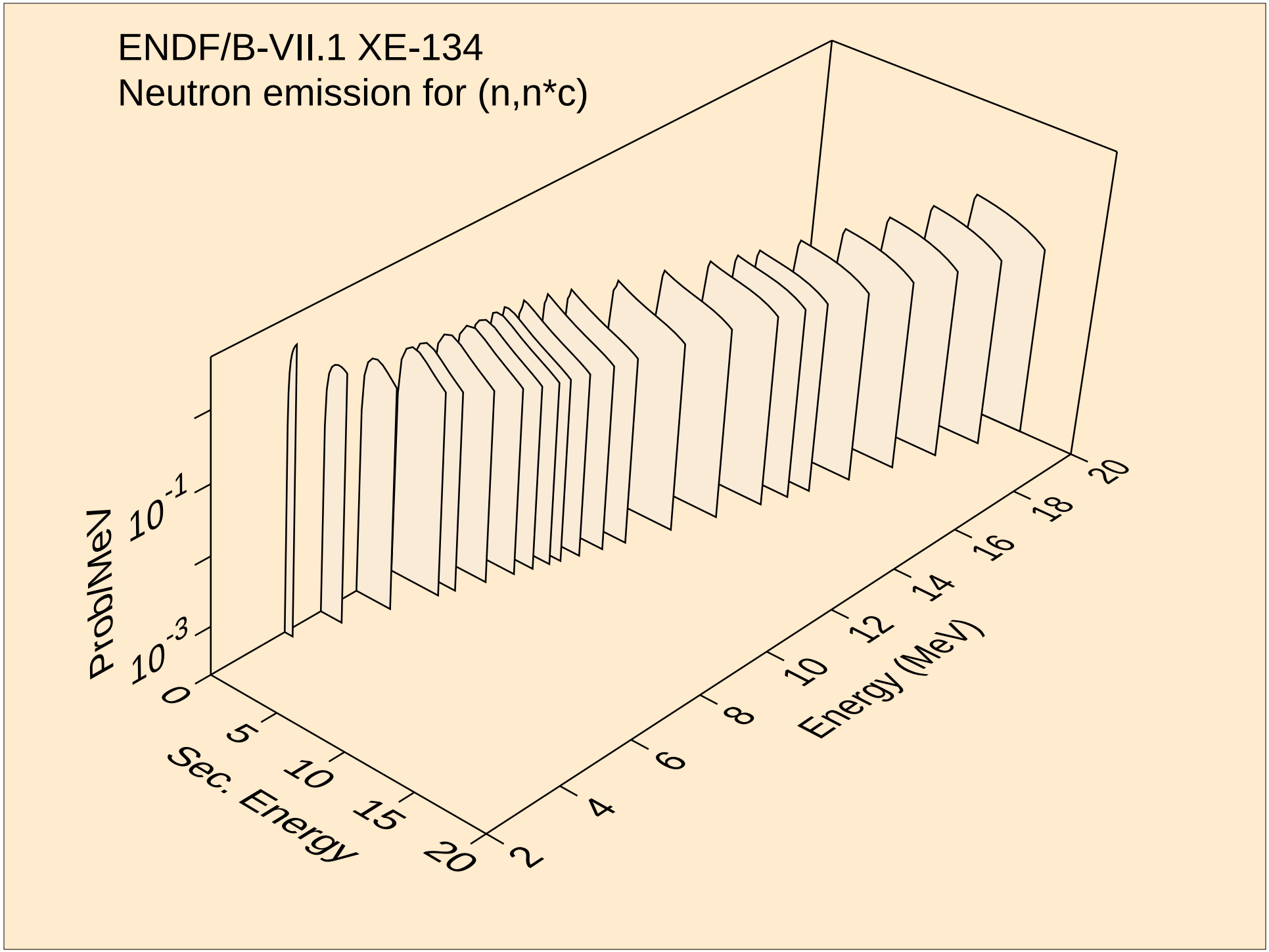

ENDF/B-VII.1 XE-134
angular distribution for (n,n*c)
$10^0$
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)


ENDF/B-VII.1 XE-134
Neutron emission for (n,2n)
Prob/MeV
$10^{-1}$
$10^{-3}$
0
5
10
15
Sec. Energy
8
10
12
14
16
18
20
Energy (MeV)


ENDF/B-VII.1 XE-134
Neutron emission for (n,3n)
Prob/MeV
10^-1
10^-3
0
Sec. Energy
1
2
3
15
16
17
18
19
20
Energy (MeV)


ENDF/B-VII.1 XE-134
Neutron emission for (n,n*)a
Prob/MeV
$10^{0}$
$10^{-2}$
$10^{-4}$
Sec. Energy
2
4
6
8
Energy (MeV)
2
4
6
8
10
12
14
16
18
20


ENDF/B-VII.1 XE-134
Neutron emission for (n,n*)p
Prob/MeV
$10^{0}$
$10^{-2}$
$10^{-4}$
0
2
4
6
8
10
Sec. Energy
8
10
12
14
16
18
20
Energy (MeV)


ENDF/B-VII.1 XE-134
Neutron emission for (n,n*c)
Prob/MeV
10-1
10-3
0
5
10
15
20
Sec. Energy
2
4
6
8
10
12
14
16
18
20
Energy (MeV)