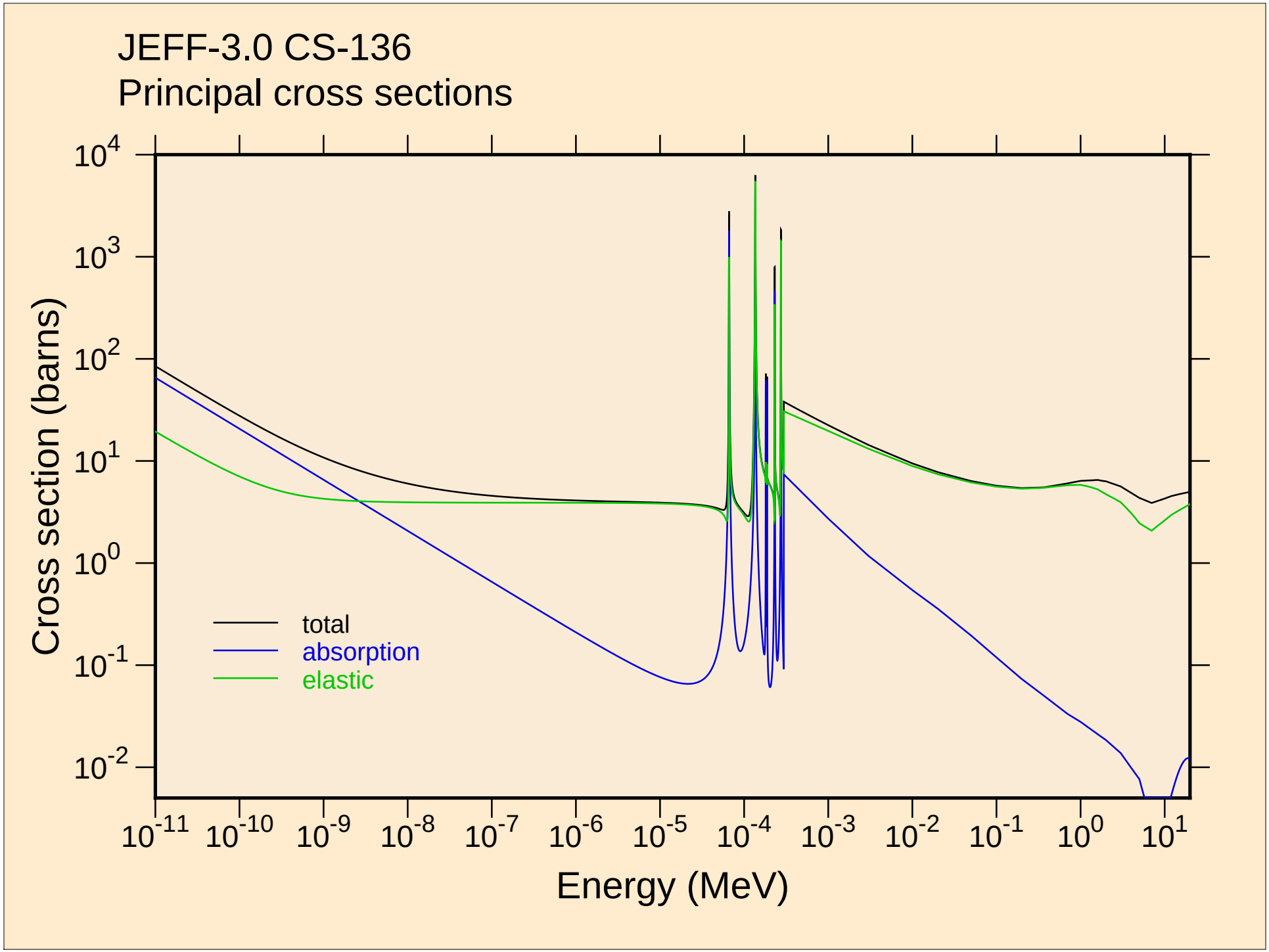
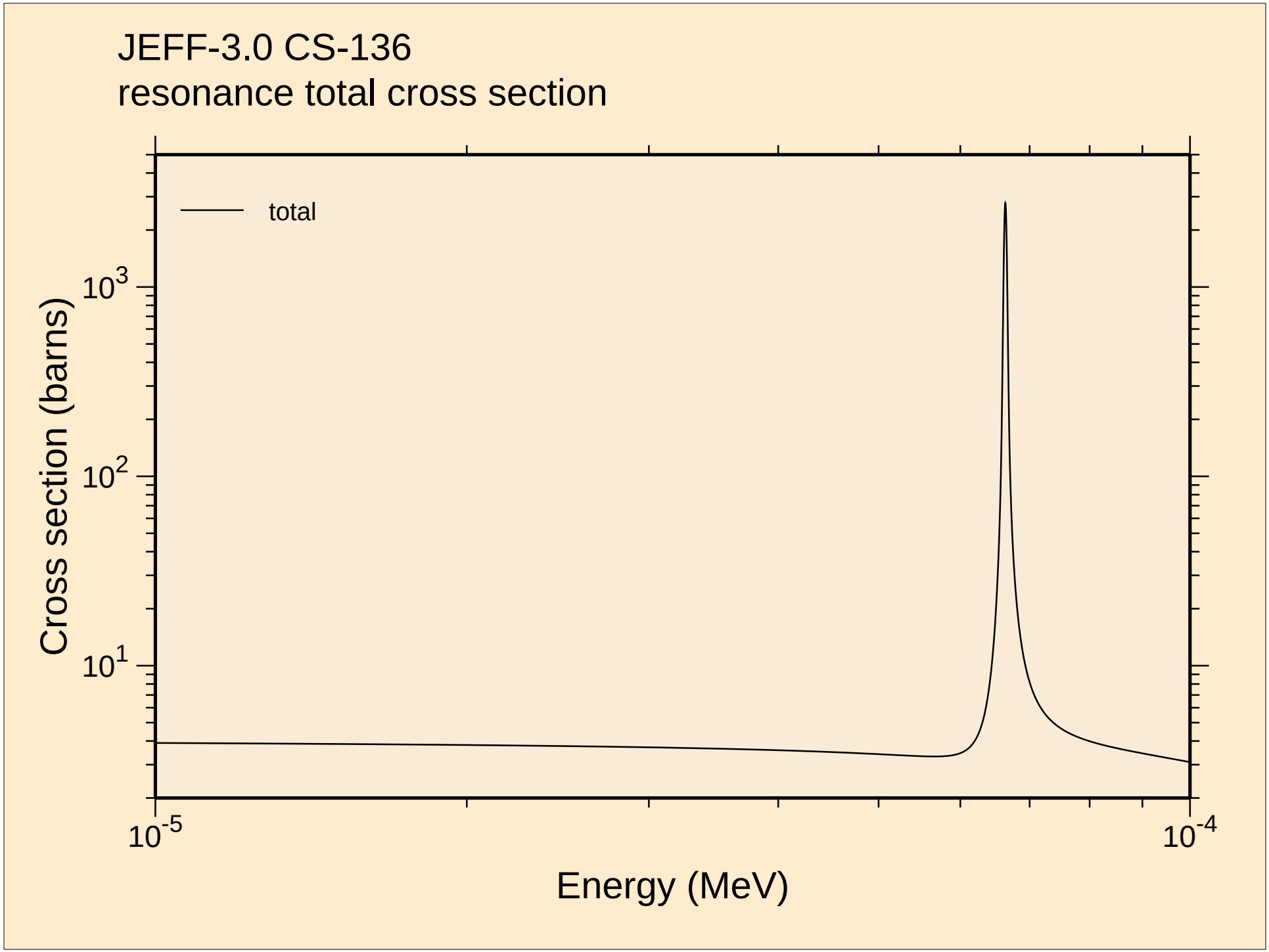
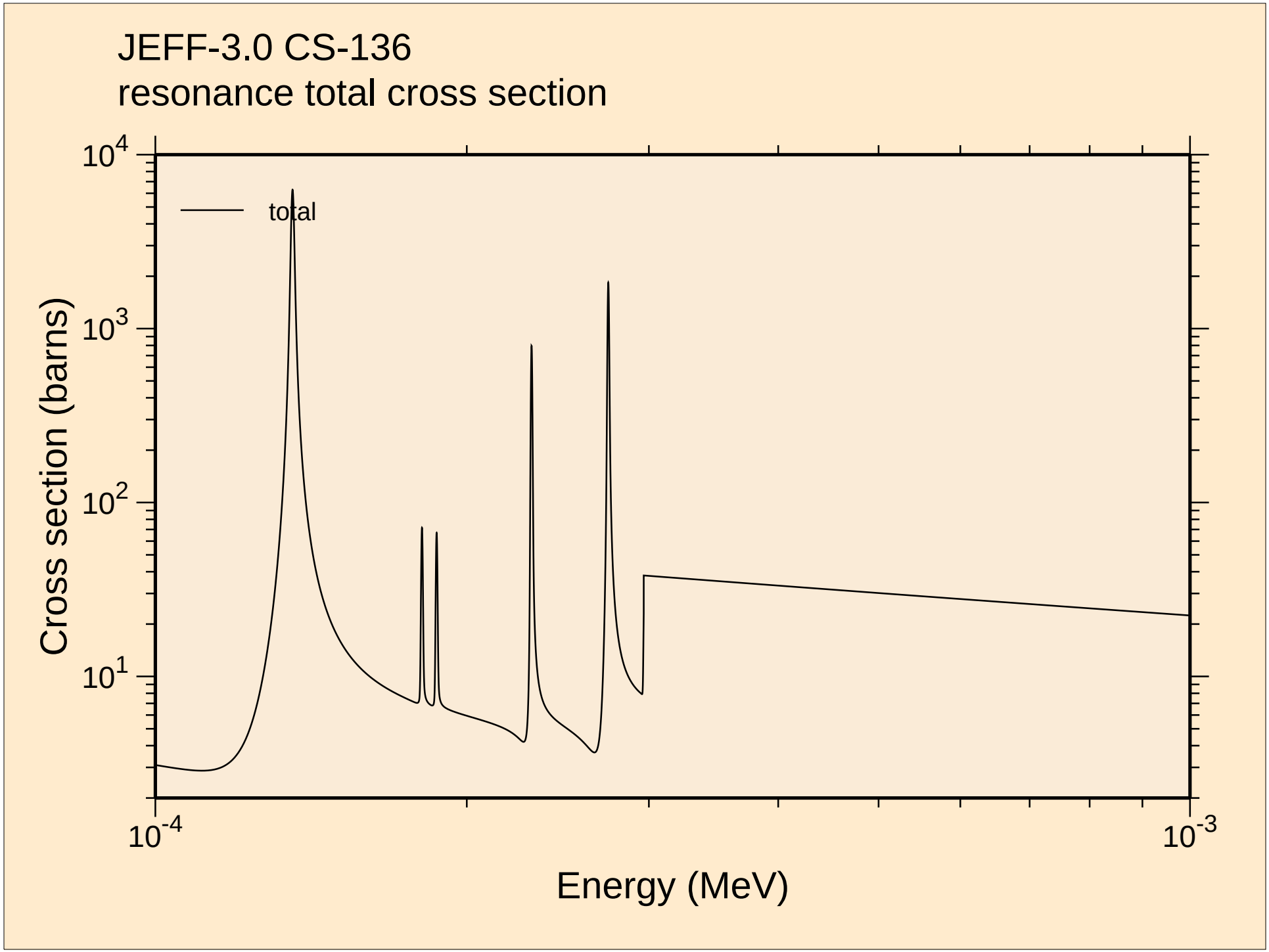
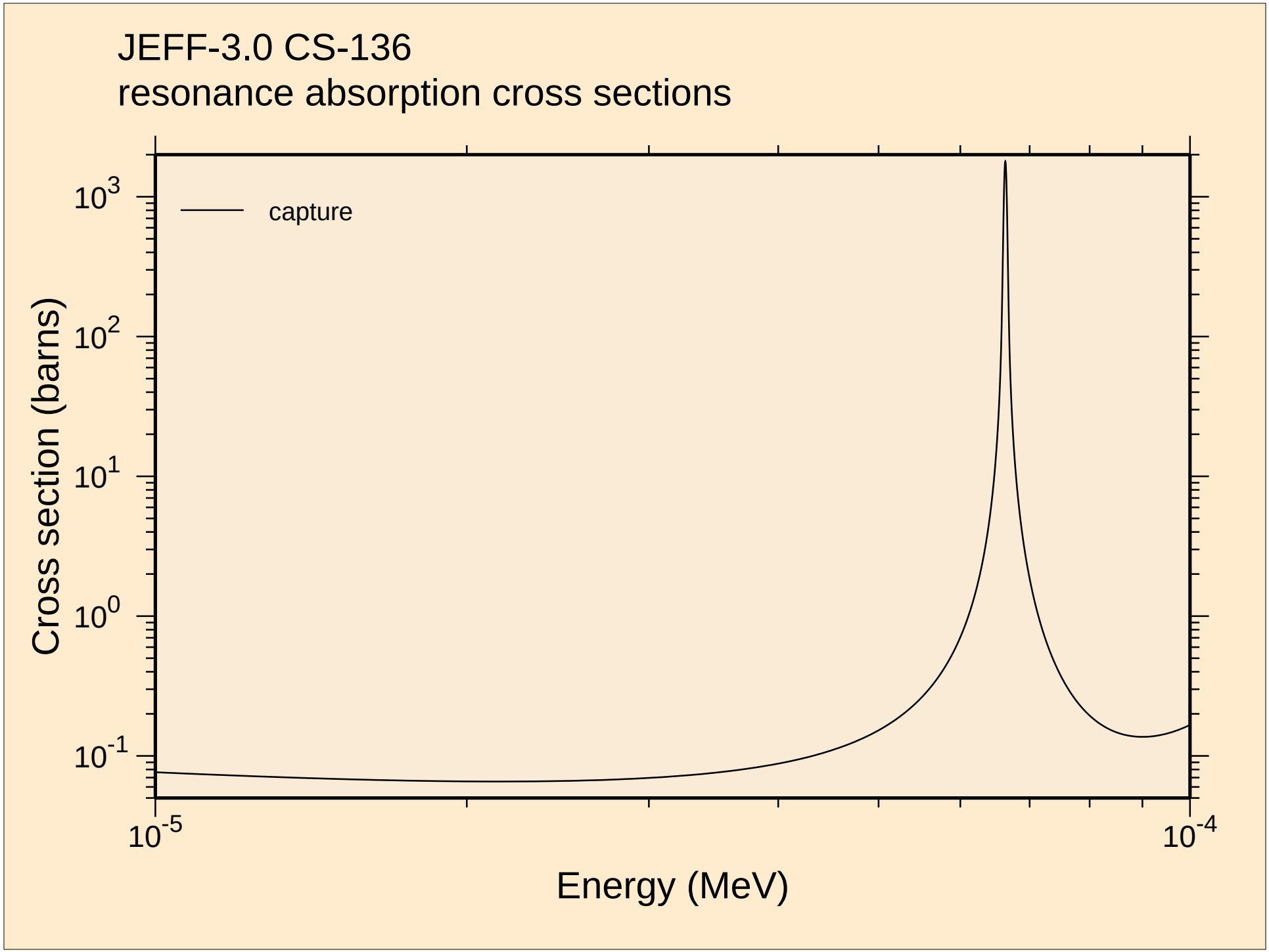
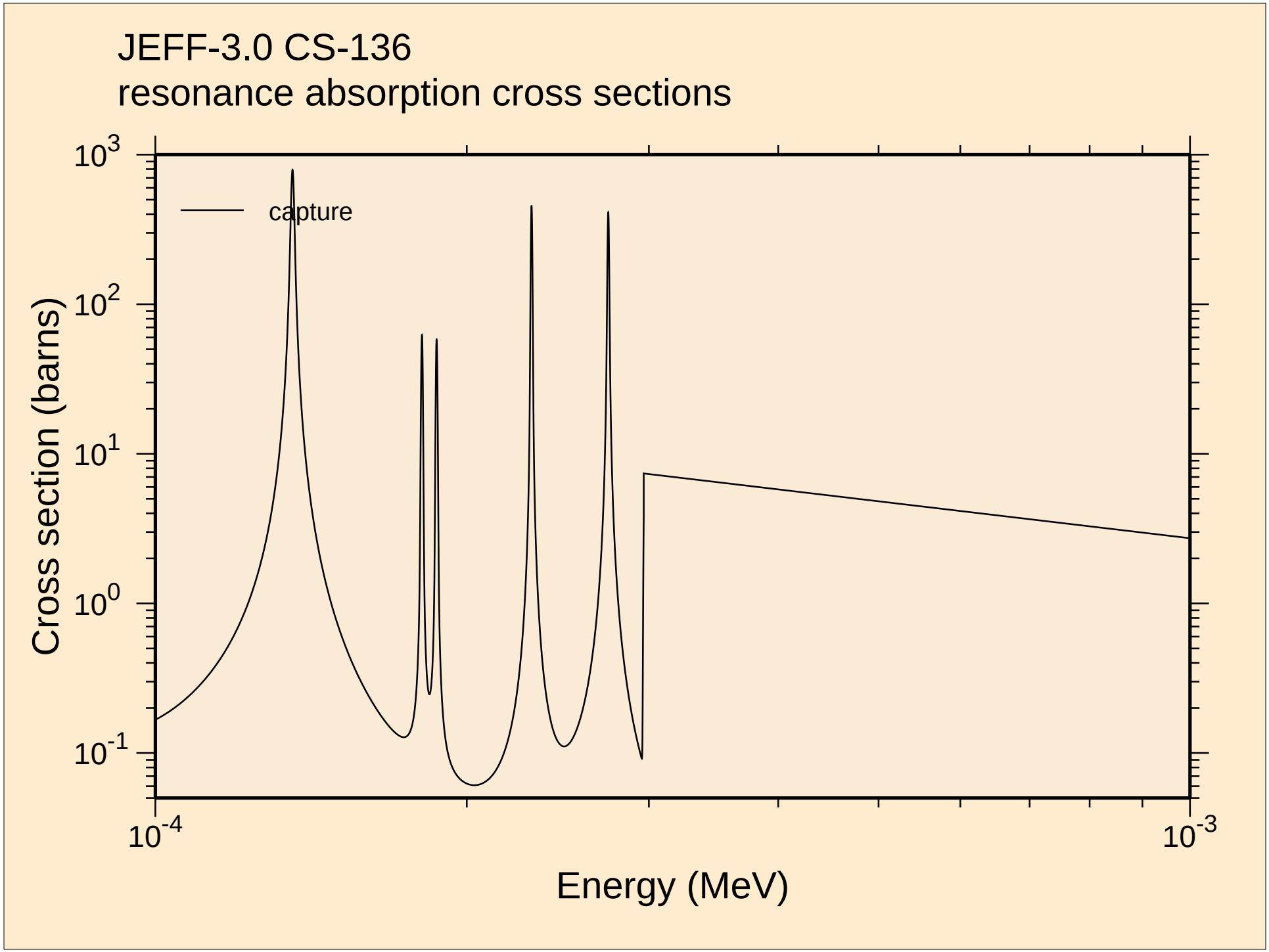
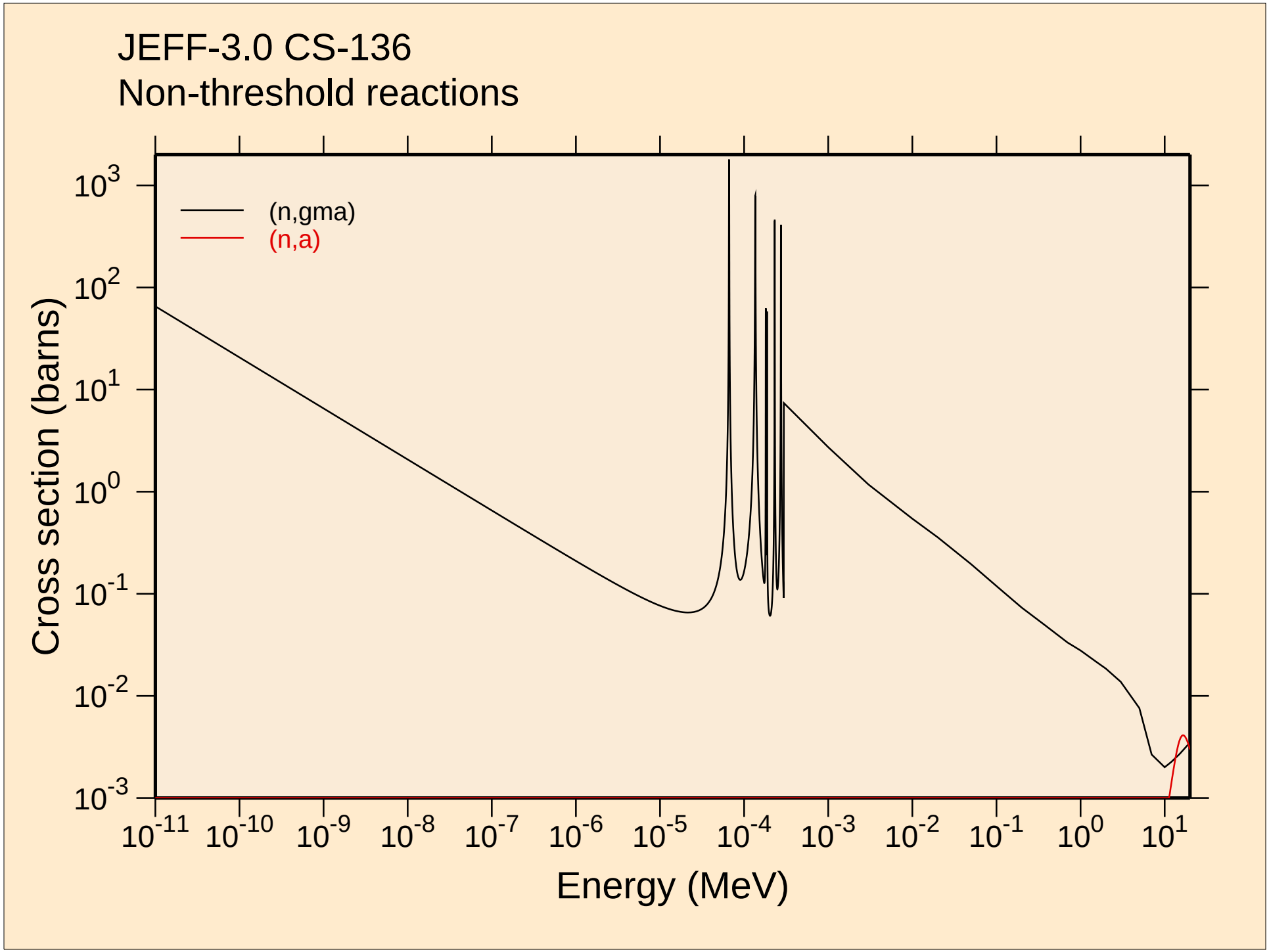

JEFF-3.0 CS-136
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
10^4
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-11
10^-10
10^-9
10^-8
10^-7
10^-6
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1

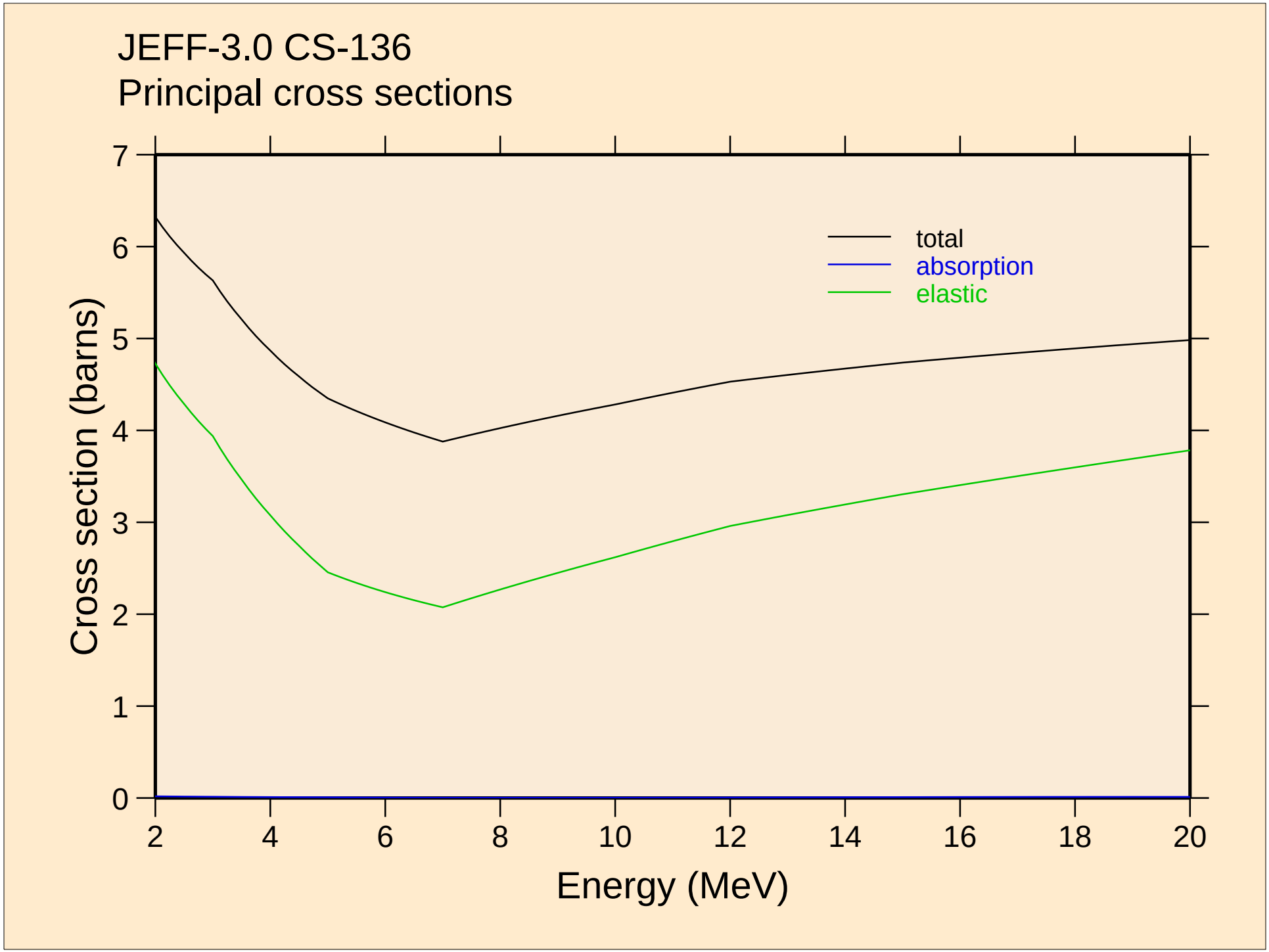

JEFF-3.0 CS-136
resonance total cross section
total
Cross section (barns)
10^3
10^2
10^1
10^-5
10^-4
Energy (MeV)

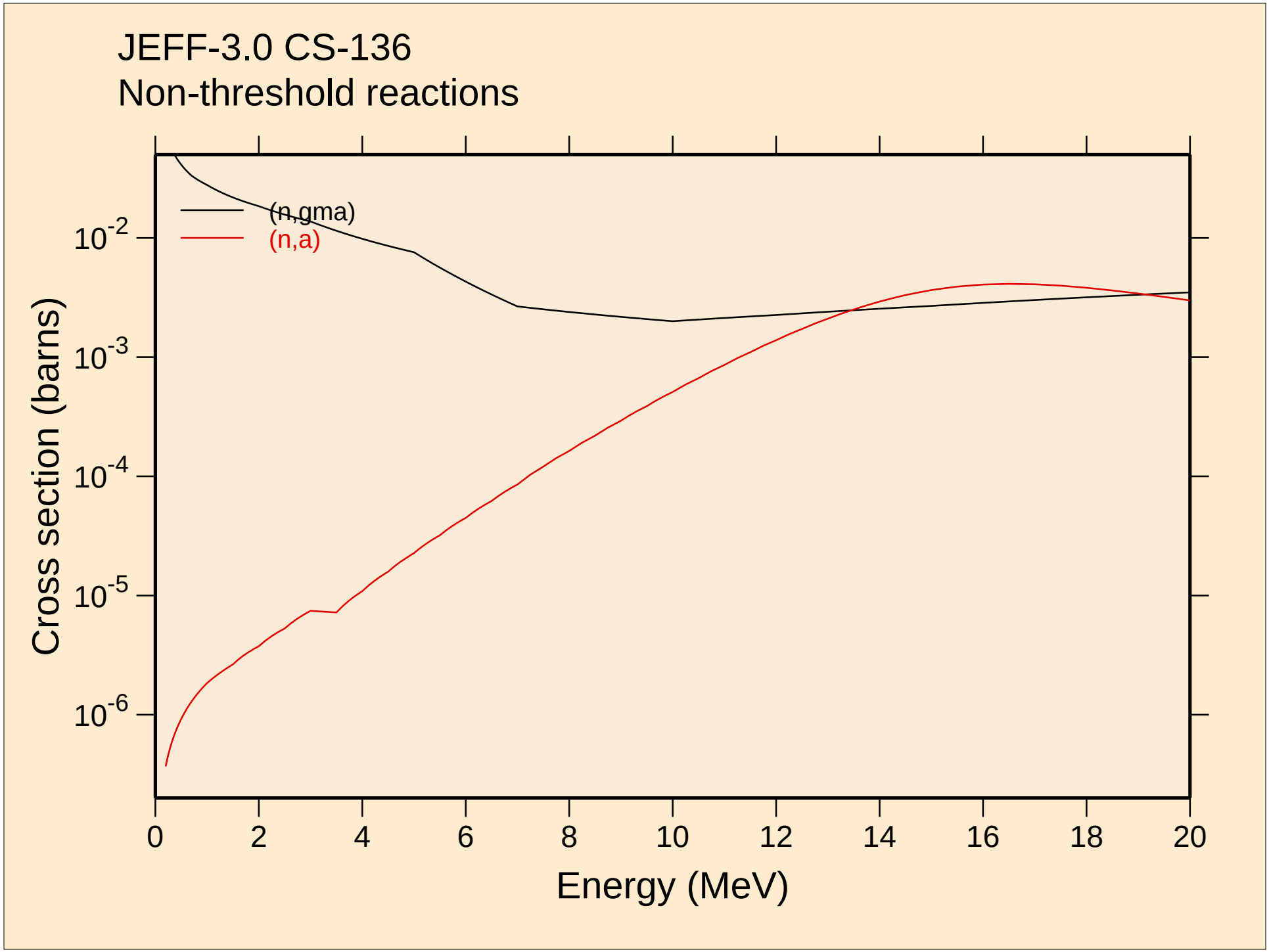

JEFF-3.0 CS-136
resonance total cross section
total
Cross section (barns)
10^4
10^3
10^2
10^1
10^{-4}
10^{-3}
Energy (MeV)

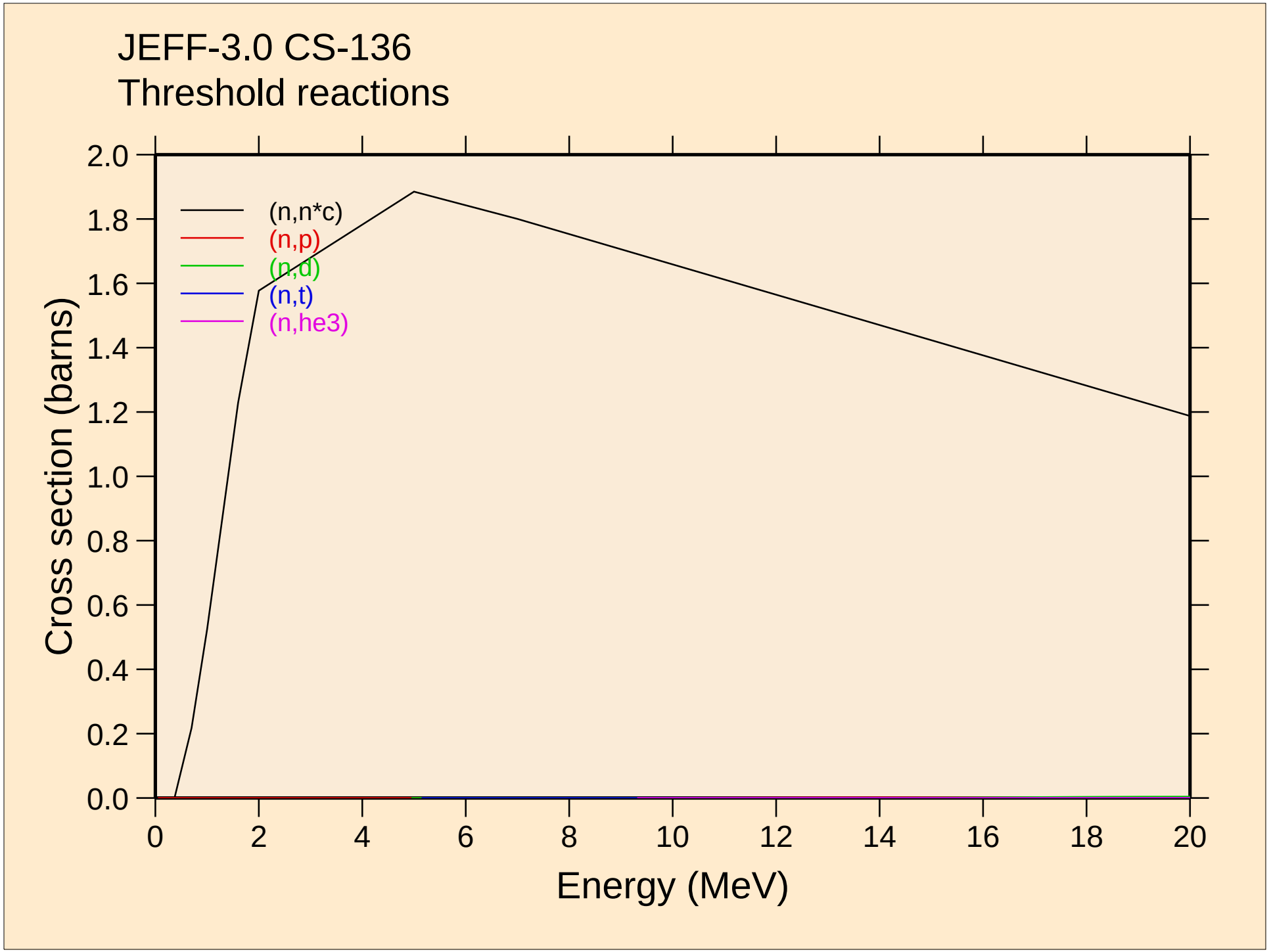

JEFF-3.0 CS-136
resonance absorption cross sections
capture
Cross section (barns)
10^3
10^2
10^1
10^0
10^-1
10^-5
10^-4
Energy (MeV)

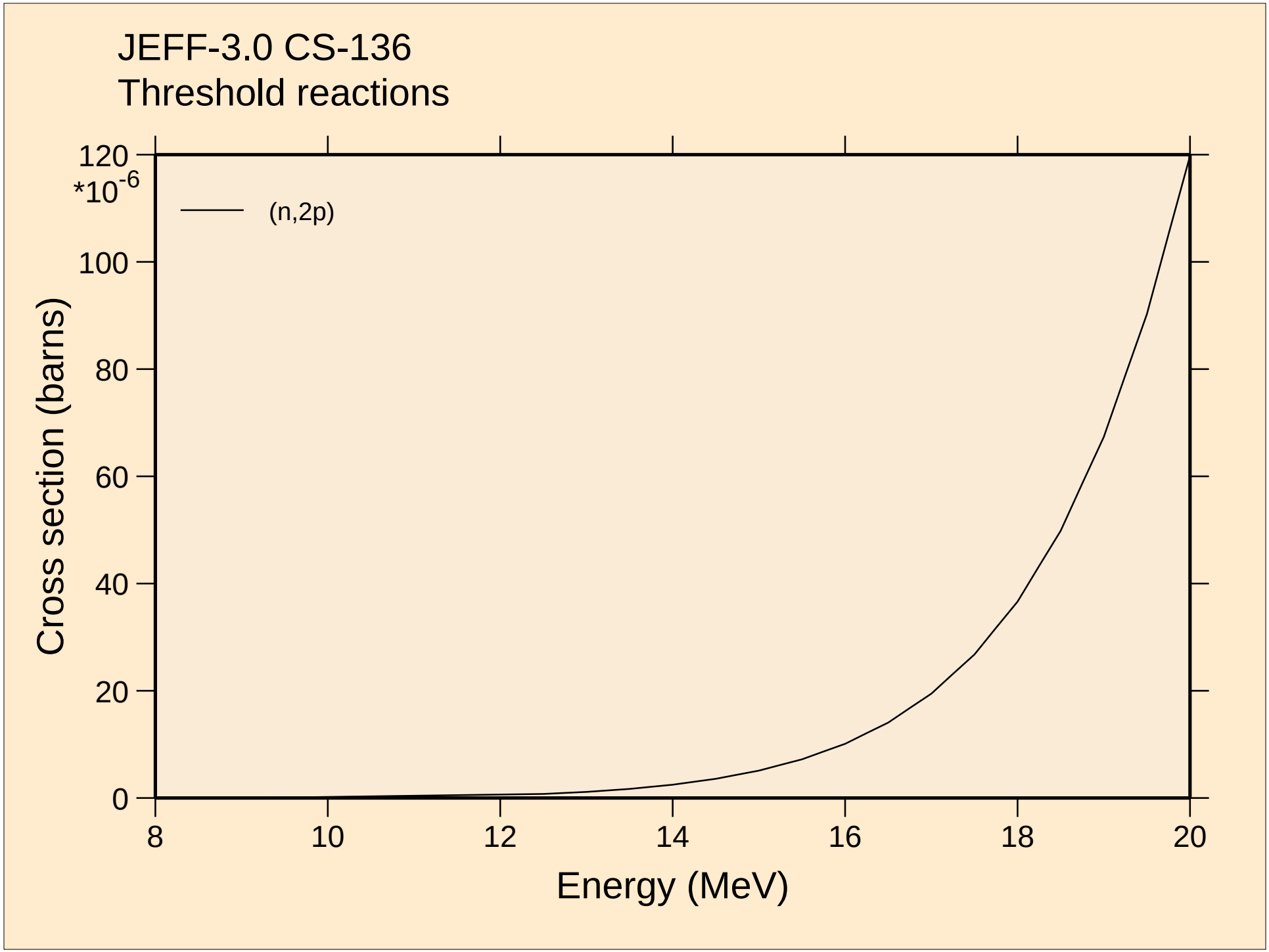

JEFF-3.0 CS-136
resonance absorption cross sections
capture
Cross section (barns)
10^3
10^2
10^1
10^0
10^-1
10^-4
10^-3
Energy (MeV)


JEFF-3.0 CS-136
Non-threshold reactions
(n,gma)
(n,a)
Cross section (barns)
10^{3}
10^{2}
10^{1}
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)


JEFF-3.0 CS-136
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
0
1
2
3
4
5
6
7
2
4
6
8
10
12
14
16
18
20


JEFF-3.0 CS-136
Non-threshold reactions
(n,gma)
(n,a)
Cross section (barns)
10-2
10-3
10-4
10-5
10-6
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)


JEFF-3.0 CS-136
Threshold reactions
Cross section (barns)
Energy (MeV)
(n,n*c)
(n,p)
(n,d)
(n,t)
(n,he3)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
0
2
4
6
8
10
12
14
16
18
20


JEFF-3.0 CS-136
Threshold reactions
120
*10-6
100
80
60
40
20
0
(n,2p)
Cross section (barns)
8
10
12
14
16
18
20
Energy (MeV)