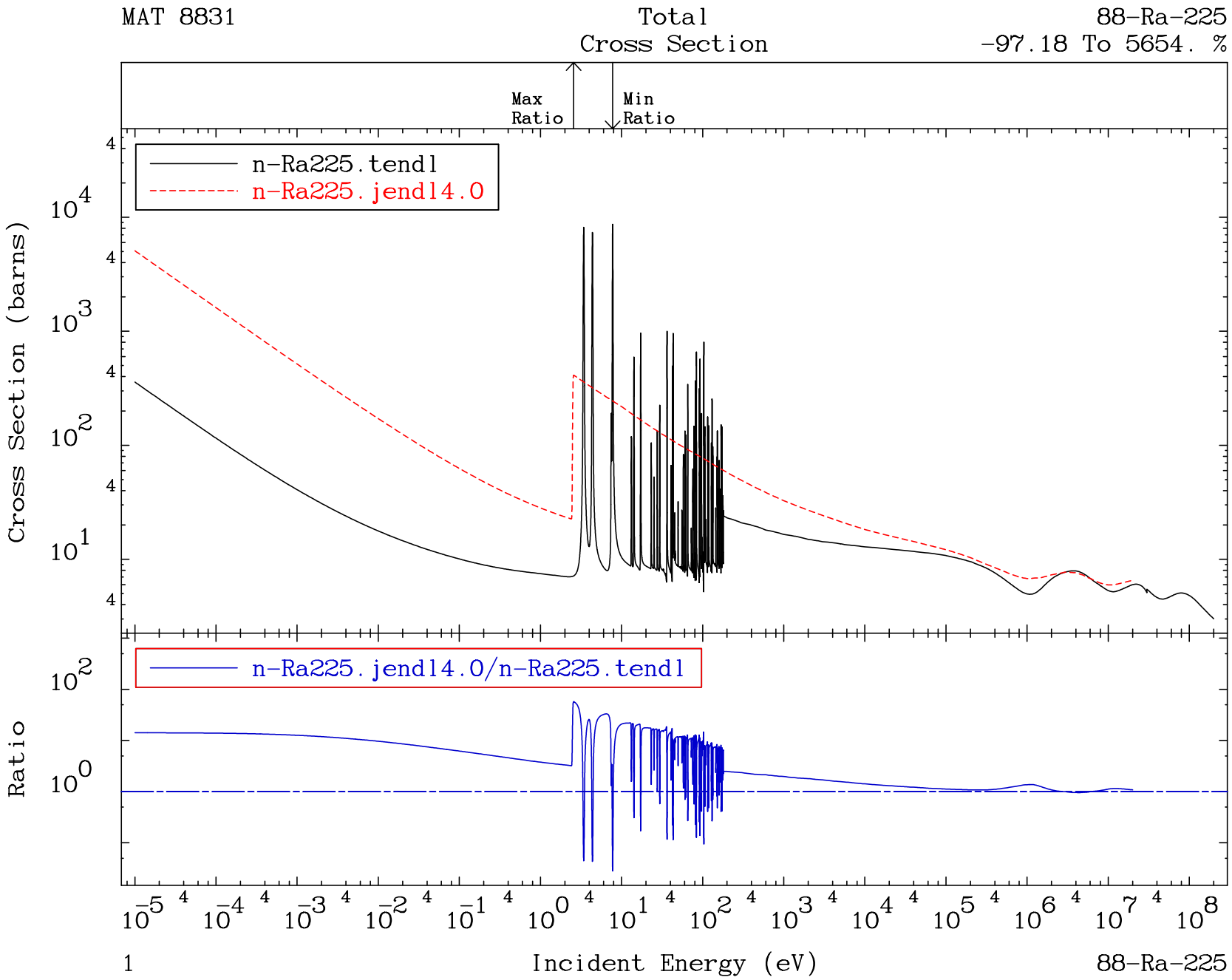
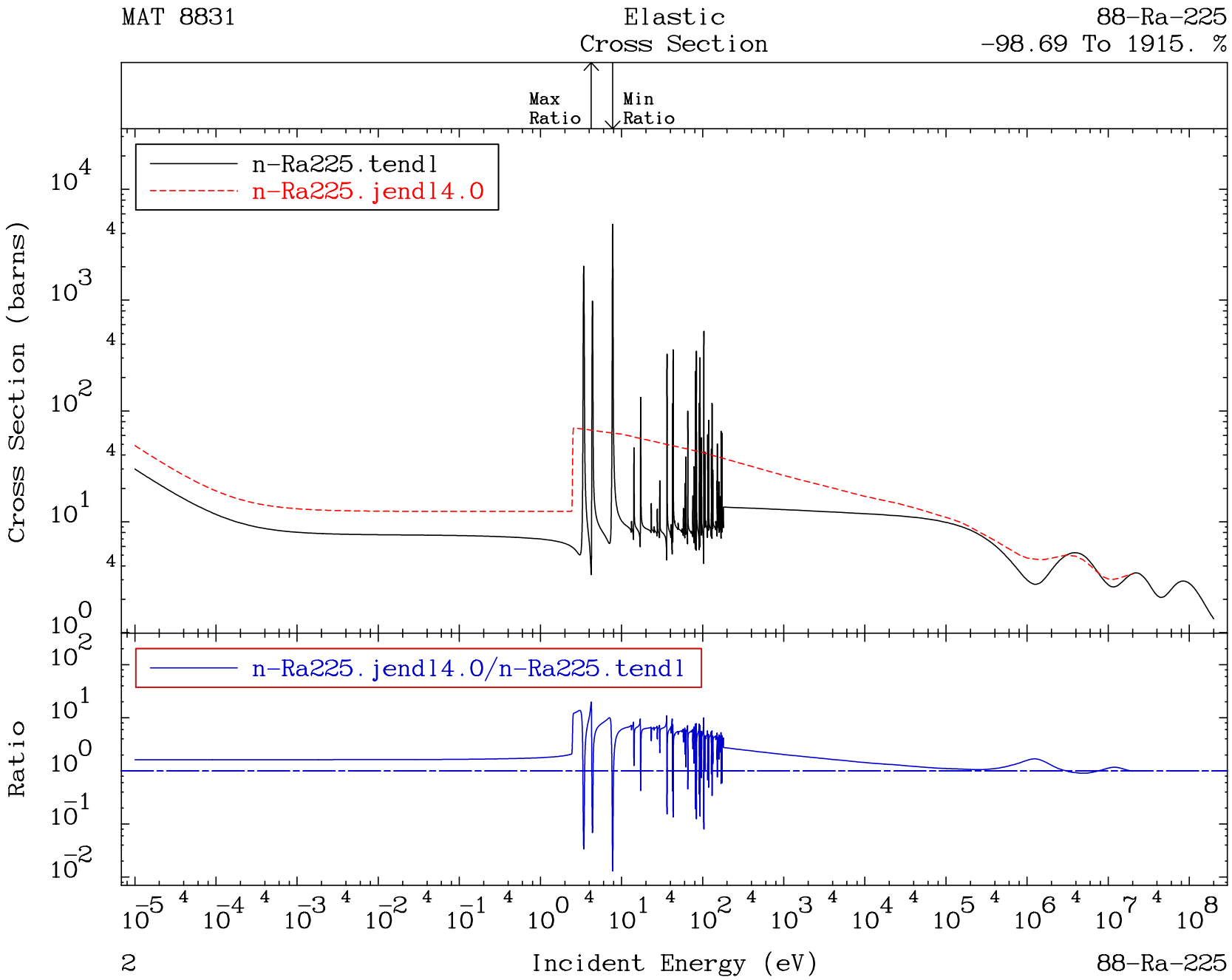
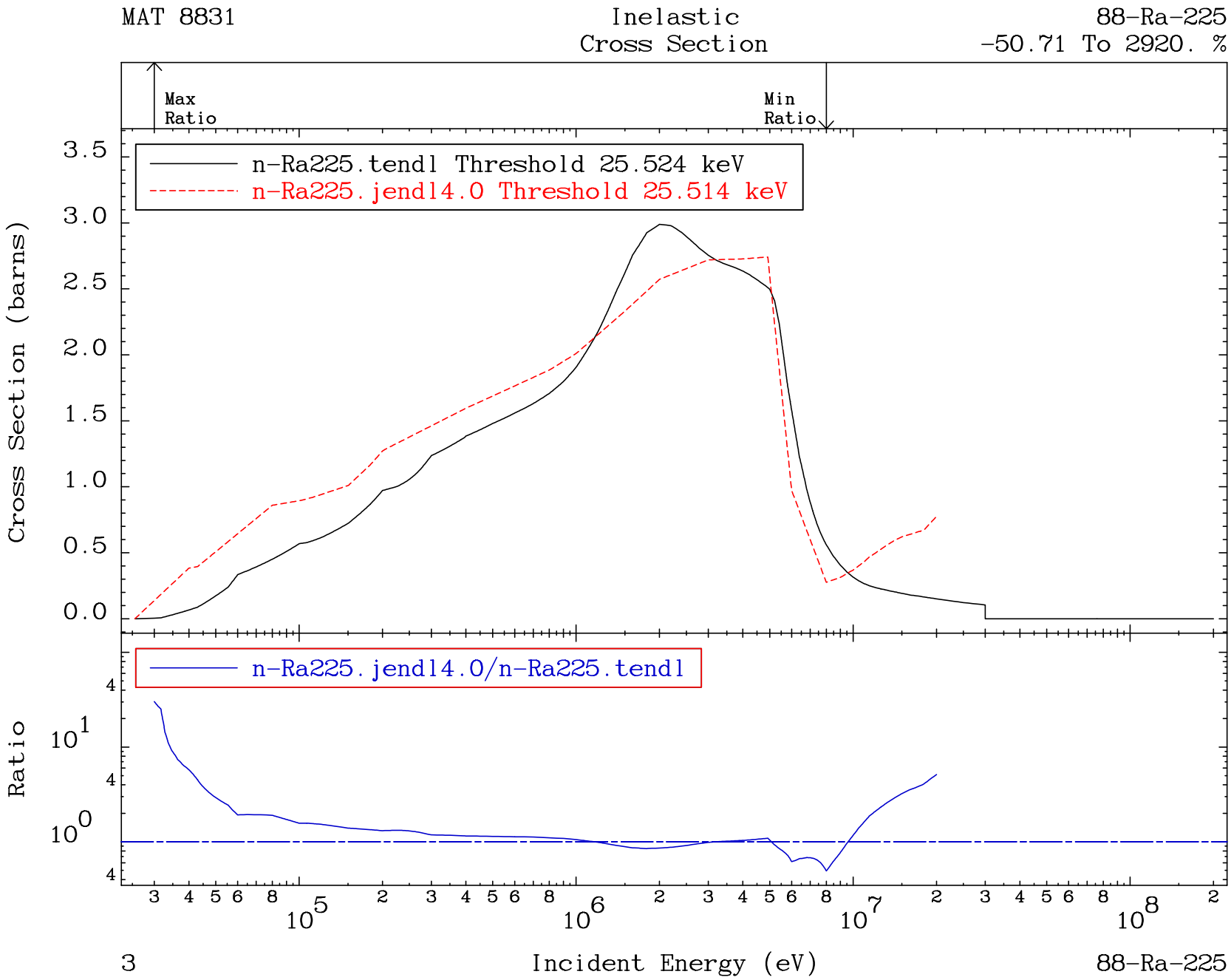
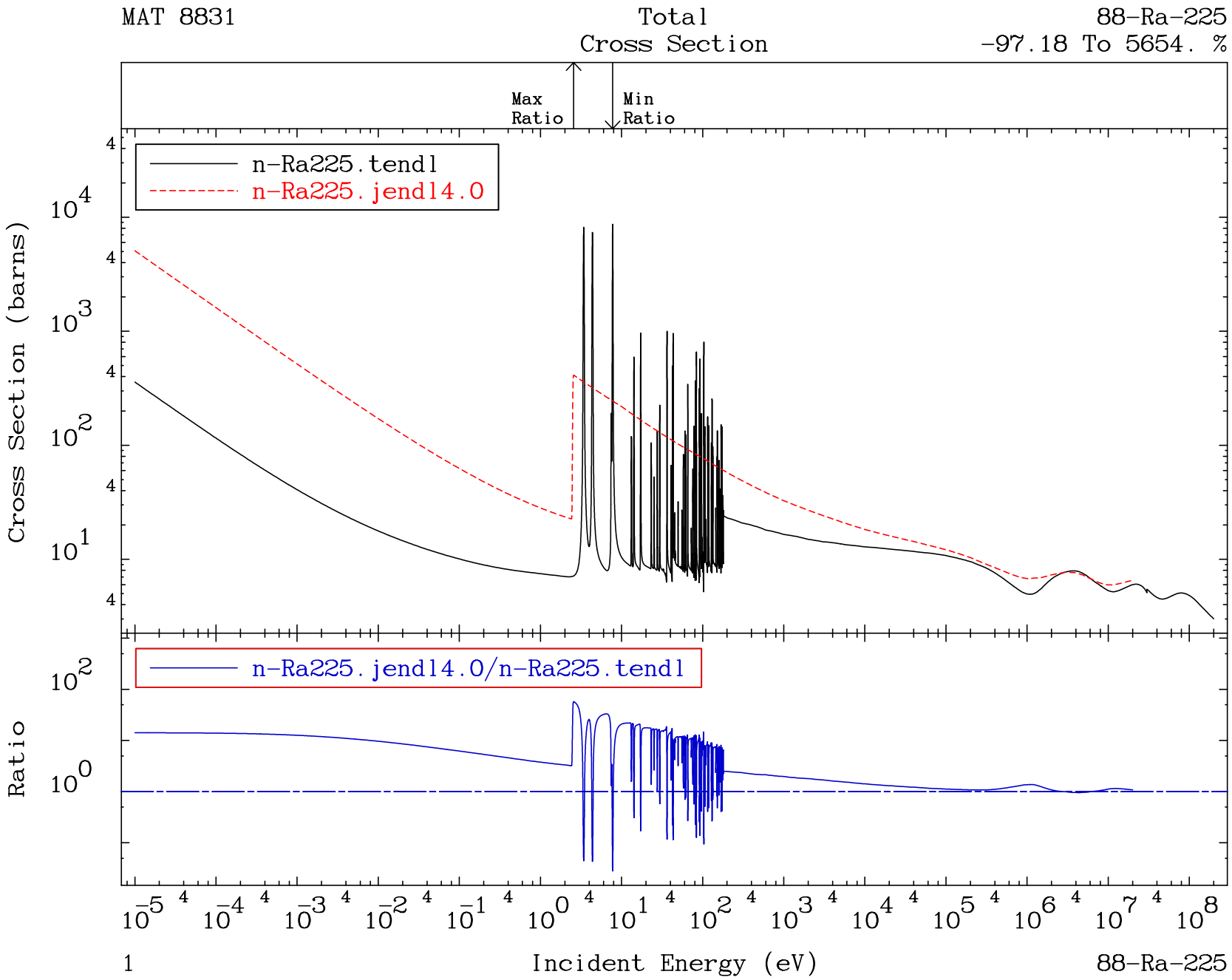
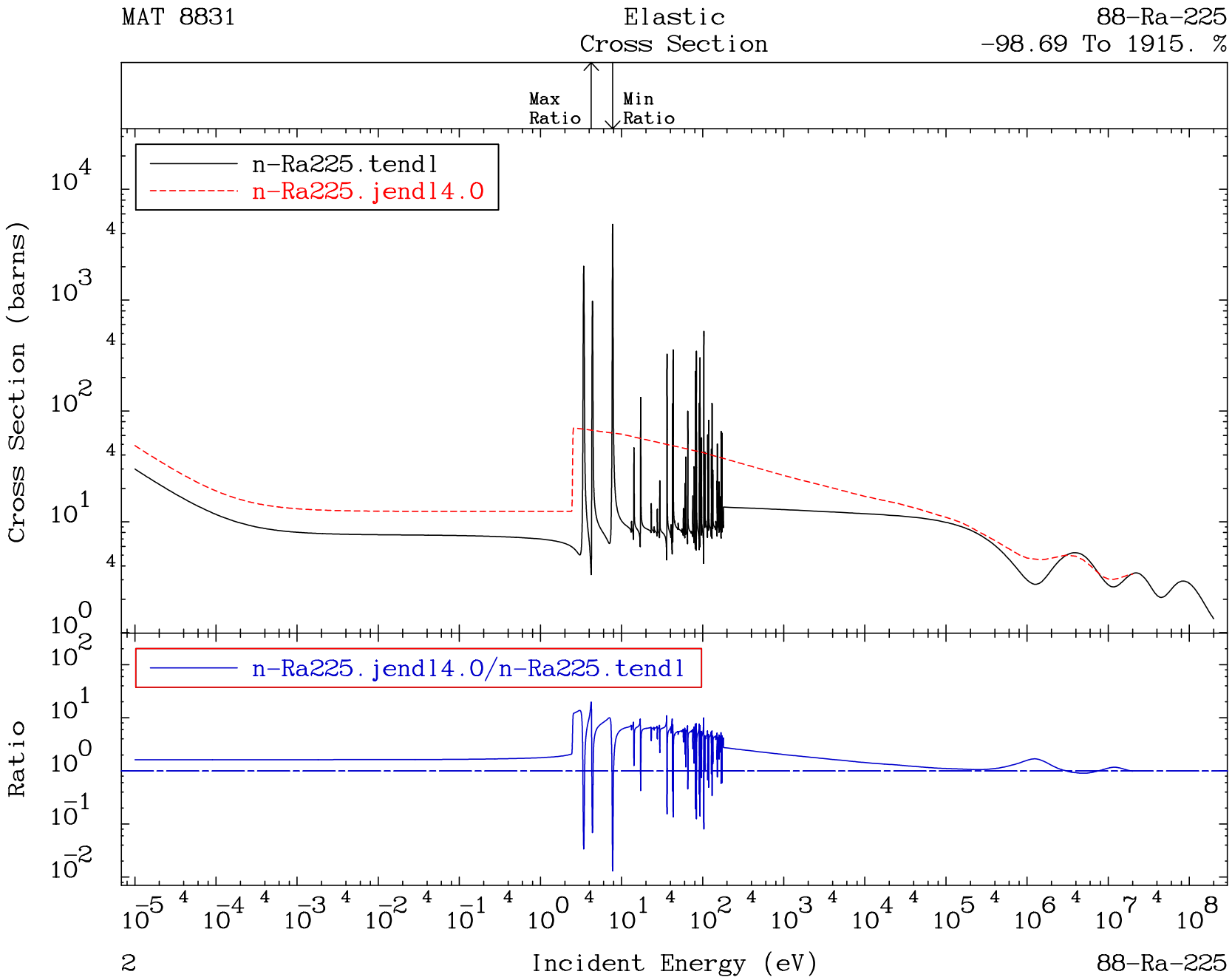
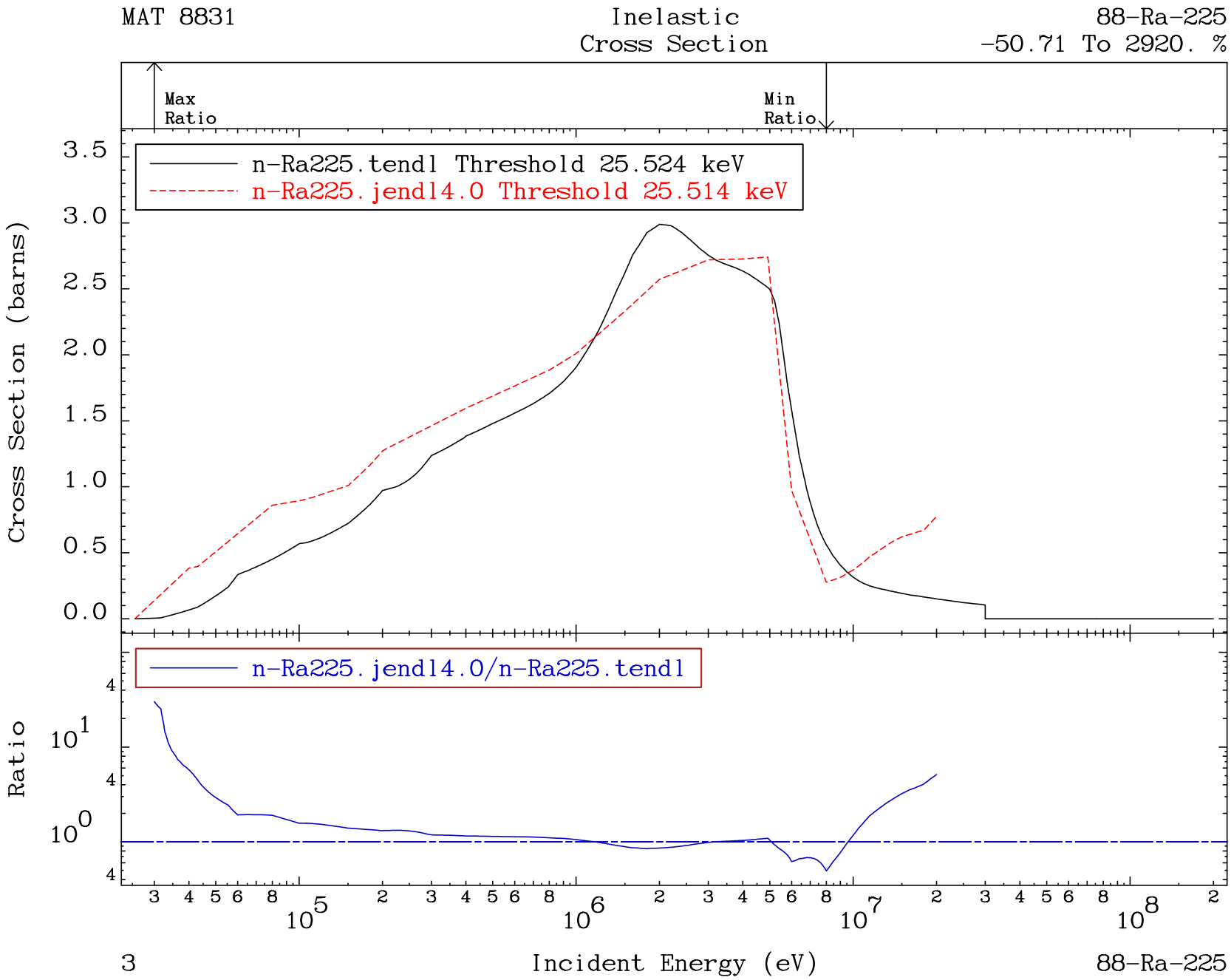

MAT 8831
Total
Cross Section
88-Ra-225
-97.18 To 5654. %
Max
Ratio
Min
Ratio
n-Ra225.tendl
n-Ra225.jendl4.0
Cross Section (barns)
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
Incident Energy (eV)
1
88-Ra-225

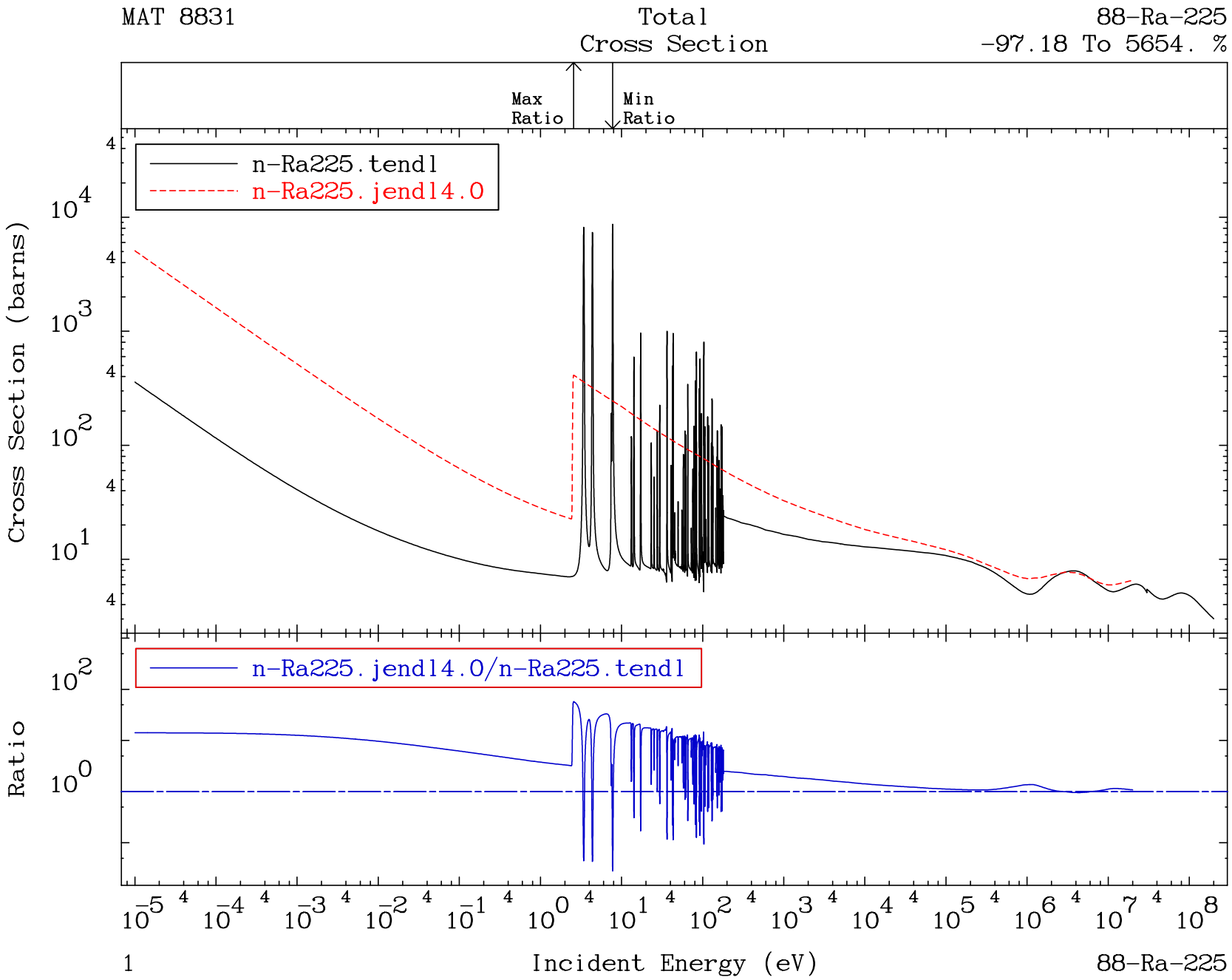

MAT 8831
Elastic
Cross Section
88-Ra-225
-98.69 To 1915. %
Max
Ratio
Min
Ratio
n-Ra225.tendl
n-Ra225.jendl4.0
Cross Section (barns)
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
Incident Energy (eV)
2
88-Ra-225

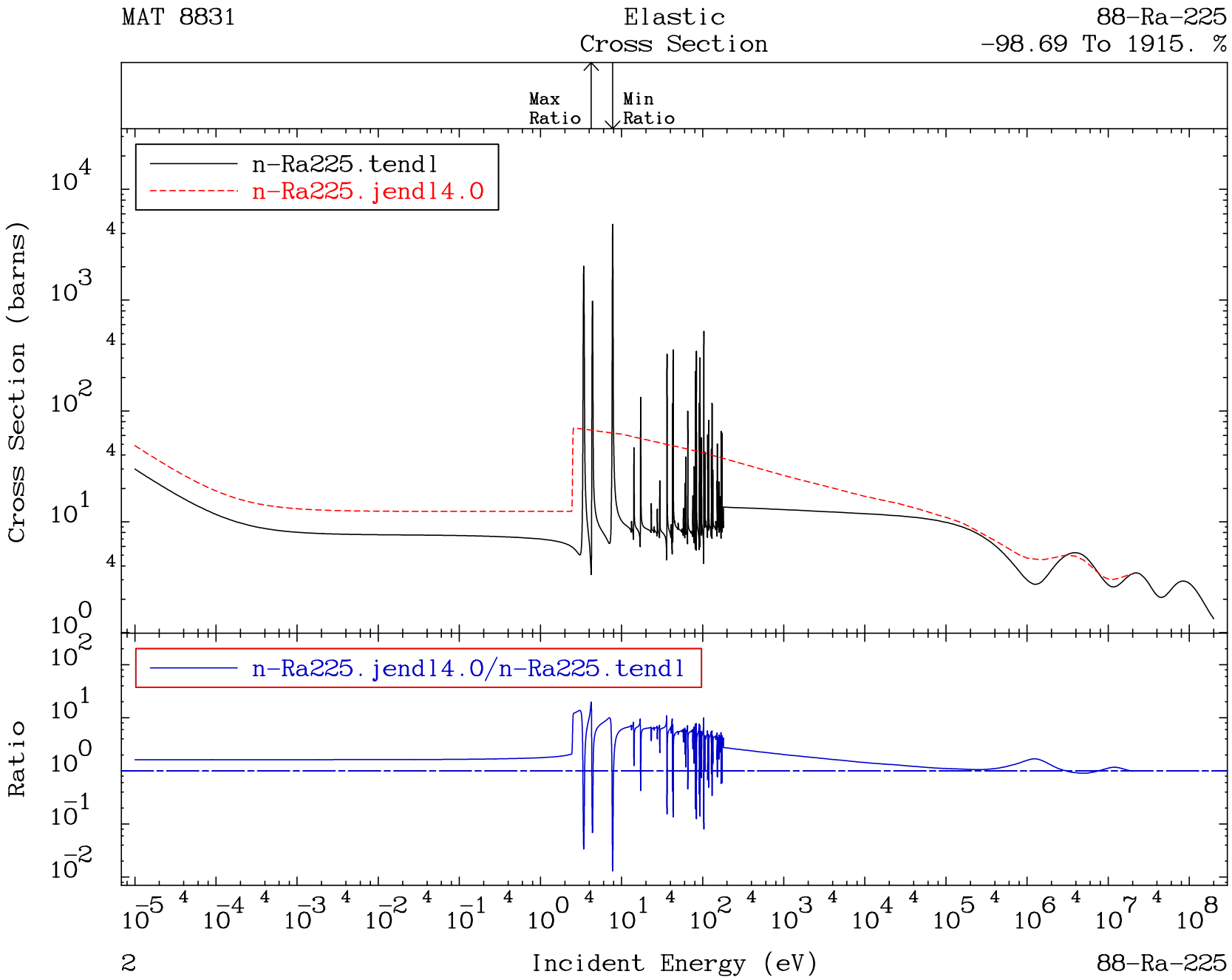

MAT 8831
Inelastic
Cross Section
88-Ra-225
-50.71 To 2920. %
Max
Ratio
Min
Ratio
n-Ra225.tendl Threshold 25.524 keV
n-Ra225.jendl4.0 Threshold 25.514 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
10^1
10^0
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
88-Ra-225

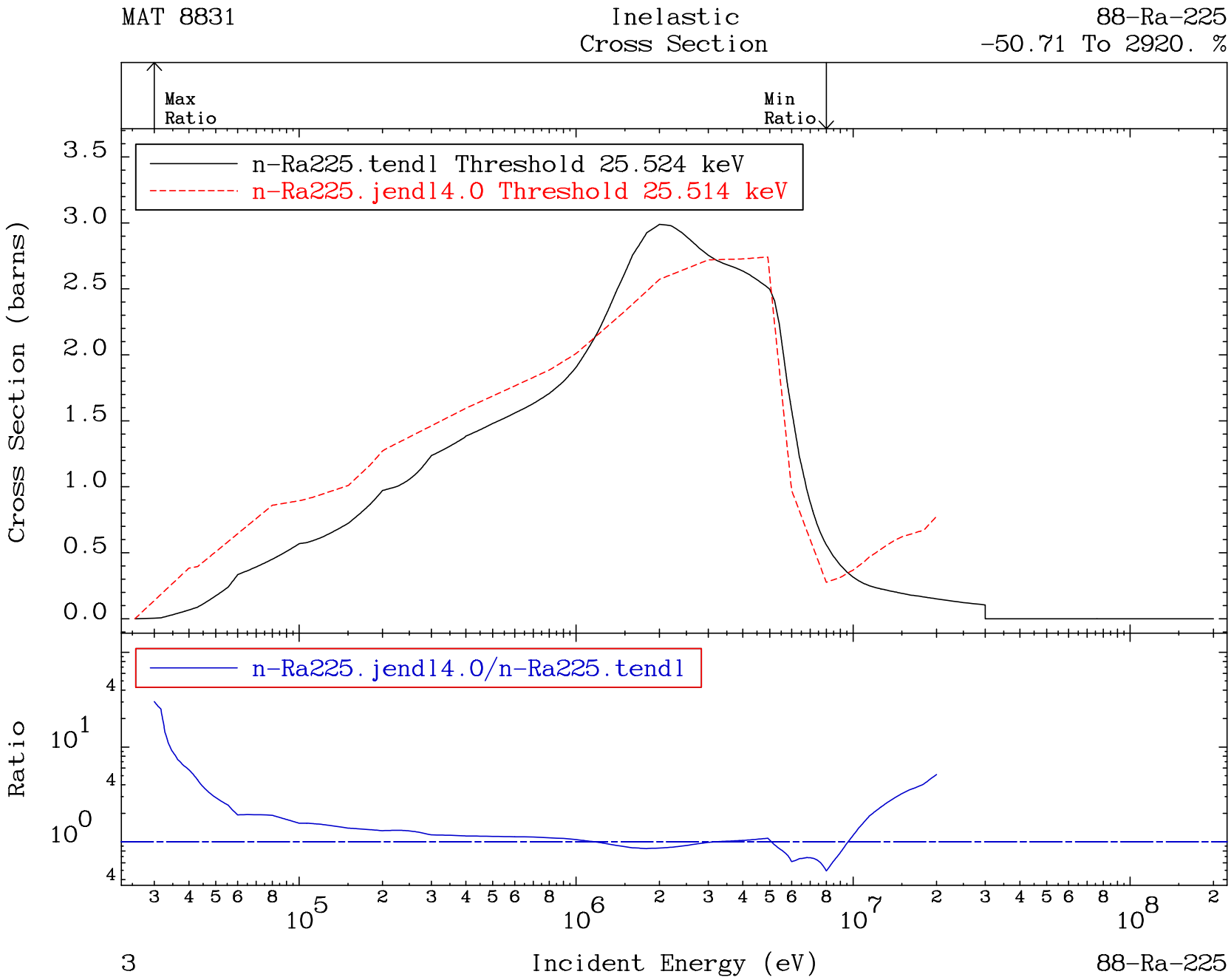

MAT 8831
Total
Cross Section
88-Ra-225
-97.18 To 5654. %
Max
Ratio
Min
Ratio
n-Ra225.tendl
n-Ra225.jendl4.0
Cross Section (barns)
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
Incident Energy (eV)
1
88-Ra-225

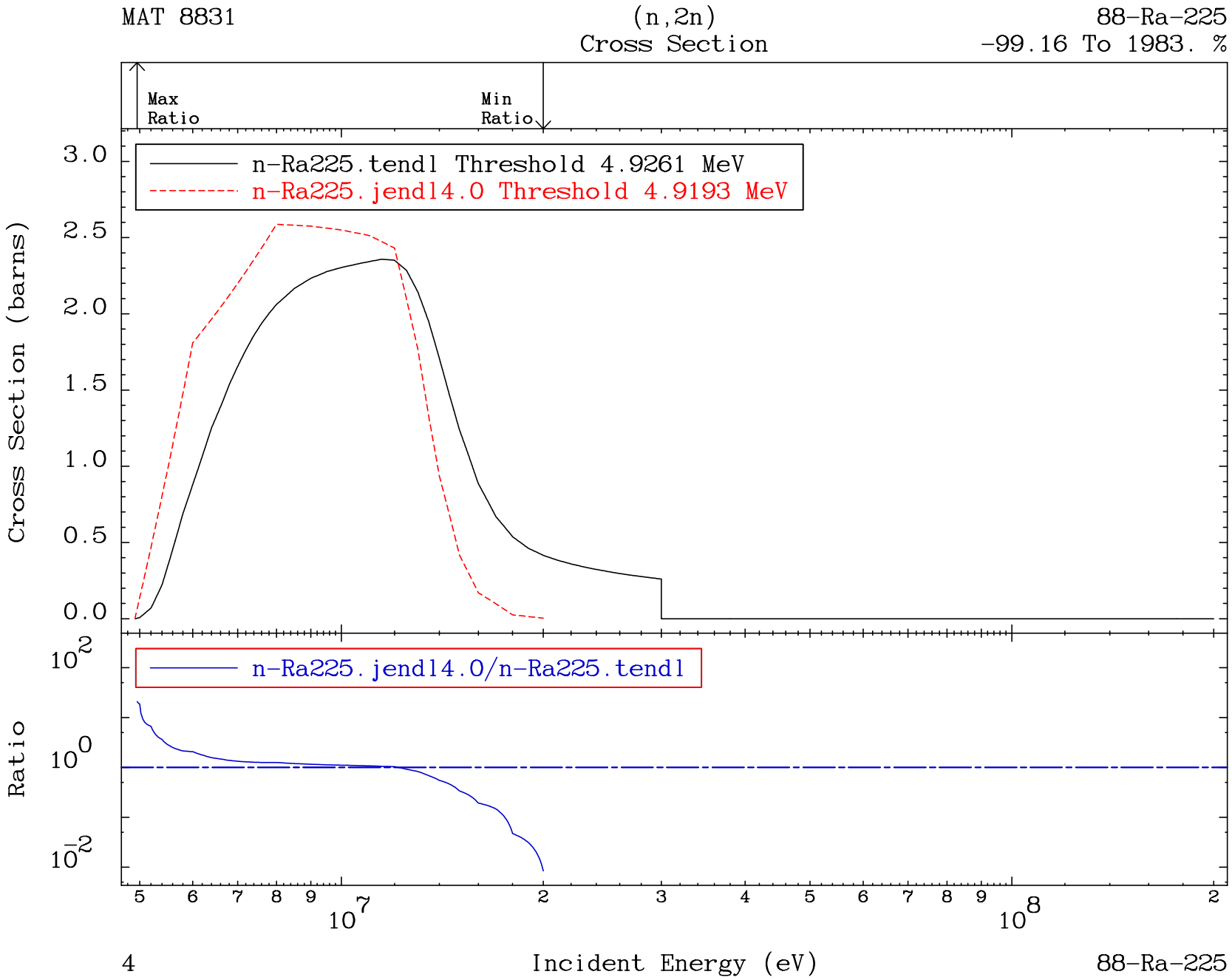

MAT 8831
Elastic
Cross Section
88-Ra-225
-98.69 To 1915. %
Max
Ratio
Min
Ratio
n-Ra225.tendl
n-Ra225.jendl4.0
Cross Section (barns)
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
Incident Energy (eV)
2
88-Ra-225

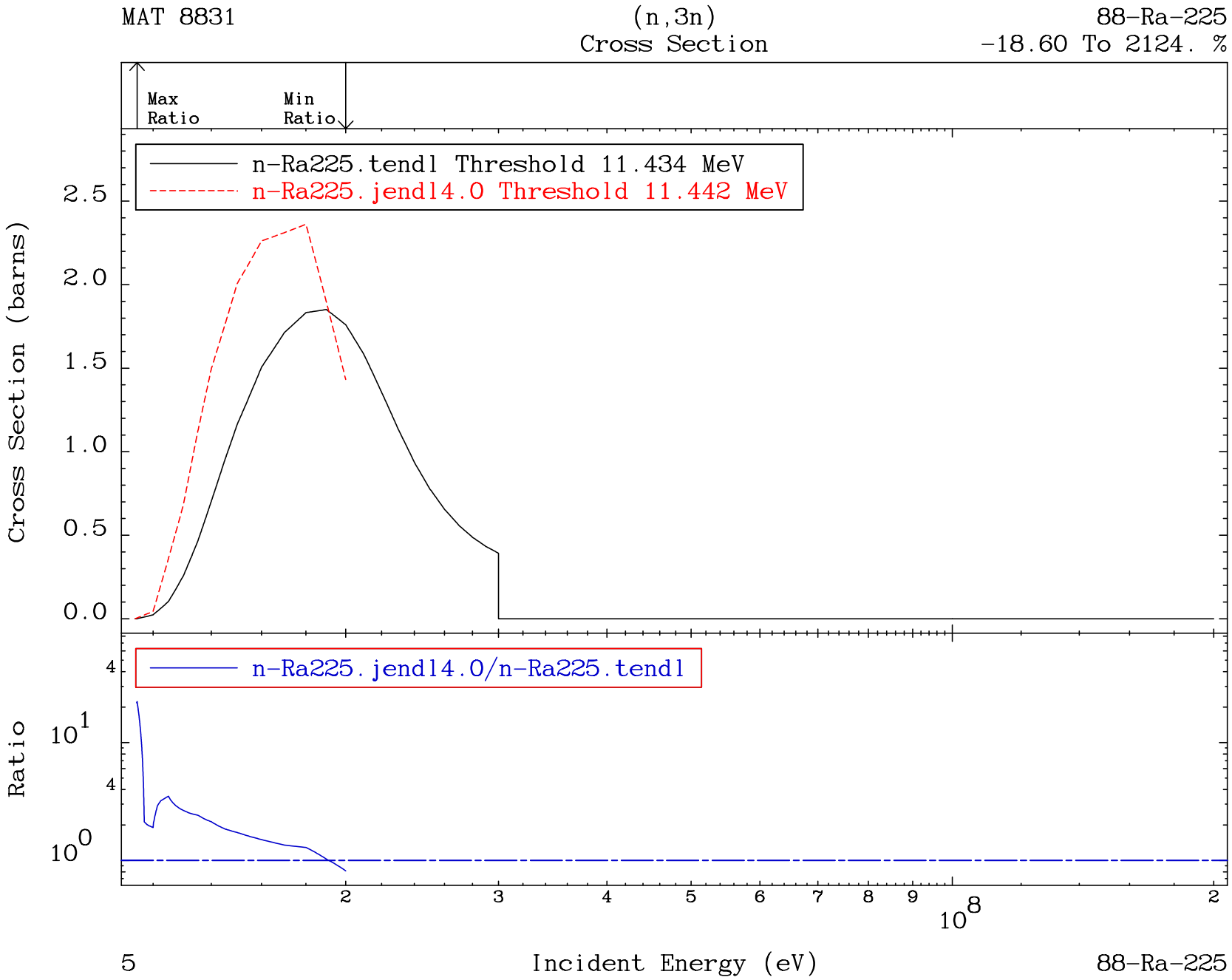

MAT 8831
Inelastic
Cross Section
88-Ra-225
-50.71 To 2920. %
Max
Ratio
Min
Ratio
n-Ra225.tendl Threshold 25.524 keV
n-Ra225.jendl4.0 Threshold 25.514 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
10^1
10^0
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
88-Ra-225

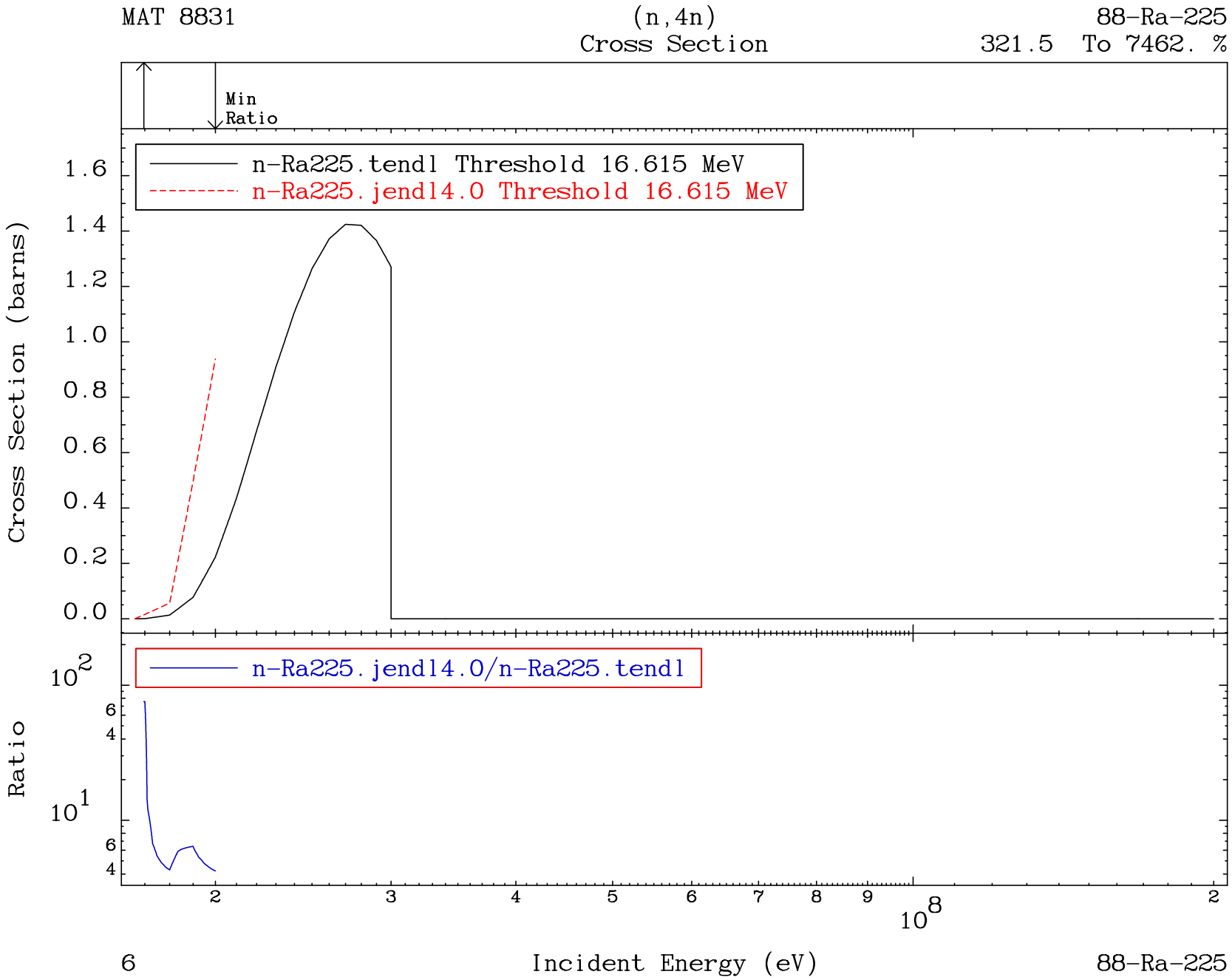

MAT 8831
Total
Cross Section
88-Ra-225
-97.18 To 5654. %
Max
Ratio
Min
Ratio
n-Ra225.tendl
n-Ra225.jendl4.0
Cross Section (barns)
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
Incident Energy (eV)
1
88-Ra-225

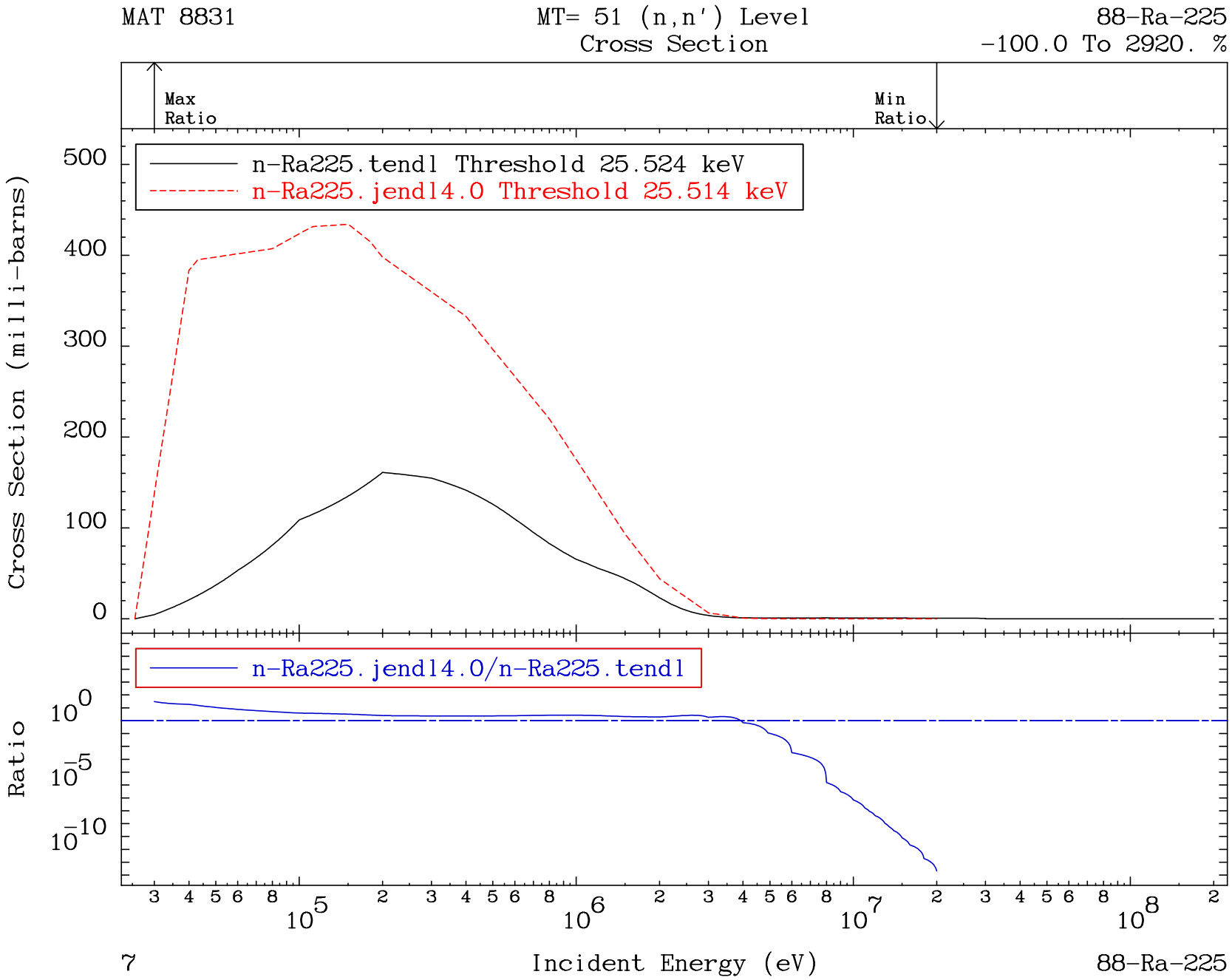

MAT 8831
Elastic
Cross Section
88-Ra-225
-98.69 To 1915. %
Max
Ratio
Min
Ratio
n-Ra225.tendl
n-Ra225.jendl4.0
Cross Section (barns)
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
Incident Energy (eV)
2
88-Ra-225

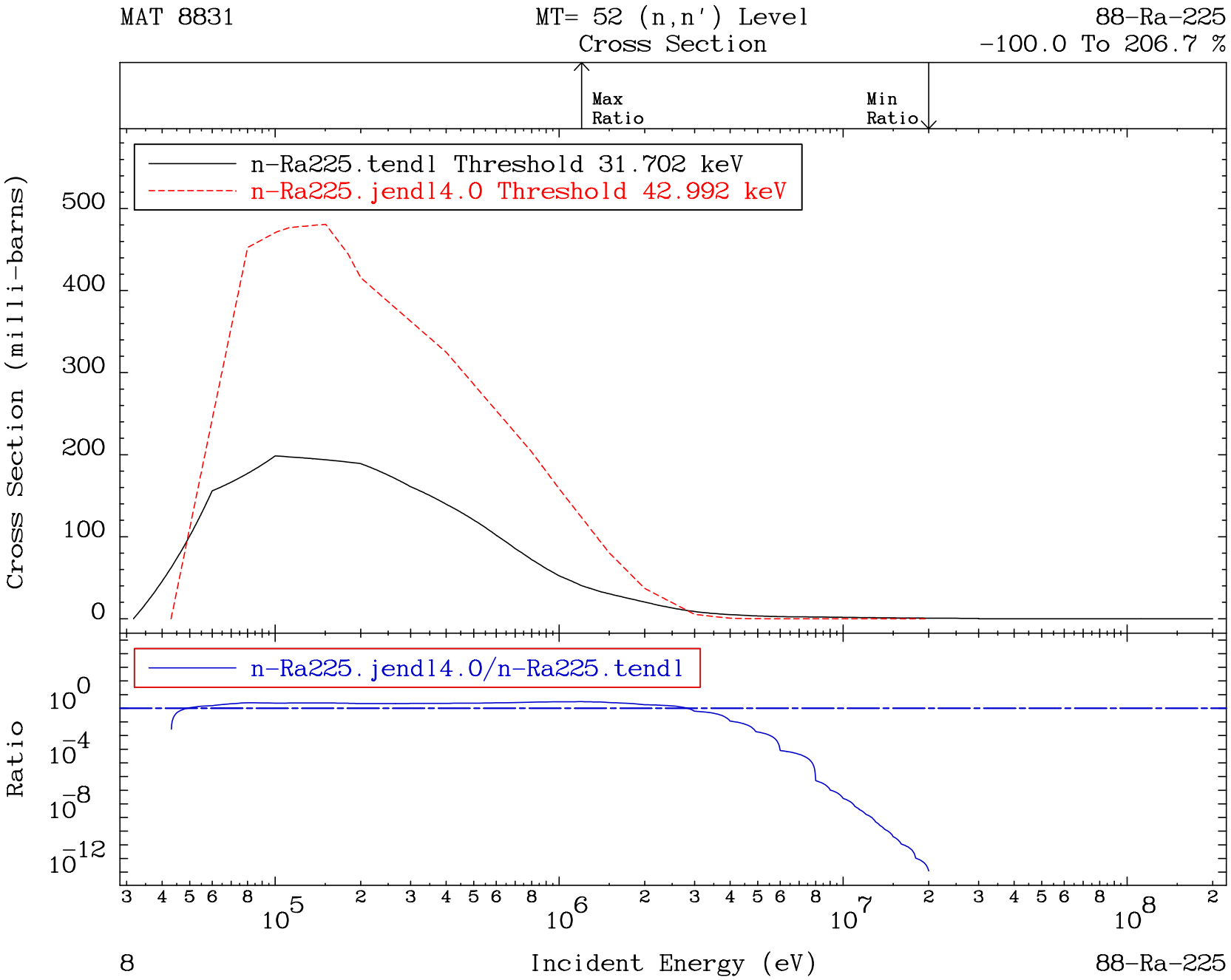

MAT 8831
Inelastic
Cross Section
88-Ra-225
-50.71 To 2920. %
Max
Ratio
Min
Ratio
n-Ra225.tendl Threshold 25.524 keV
n-Ra225.jendl4.0 Threshold 25.514 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
10^1
10^0
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
88-Ra-225

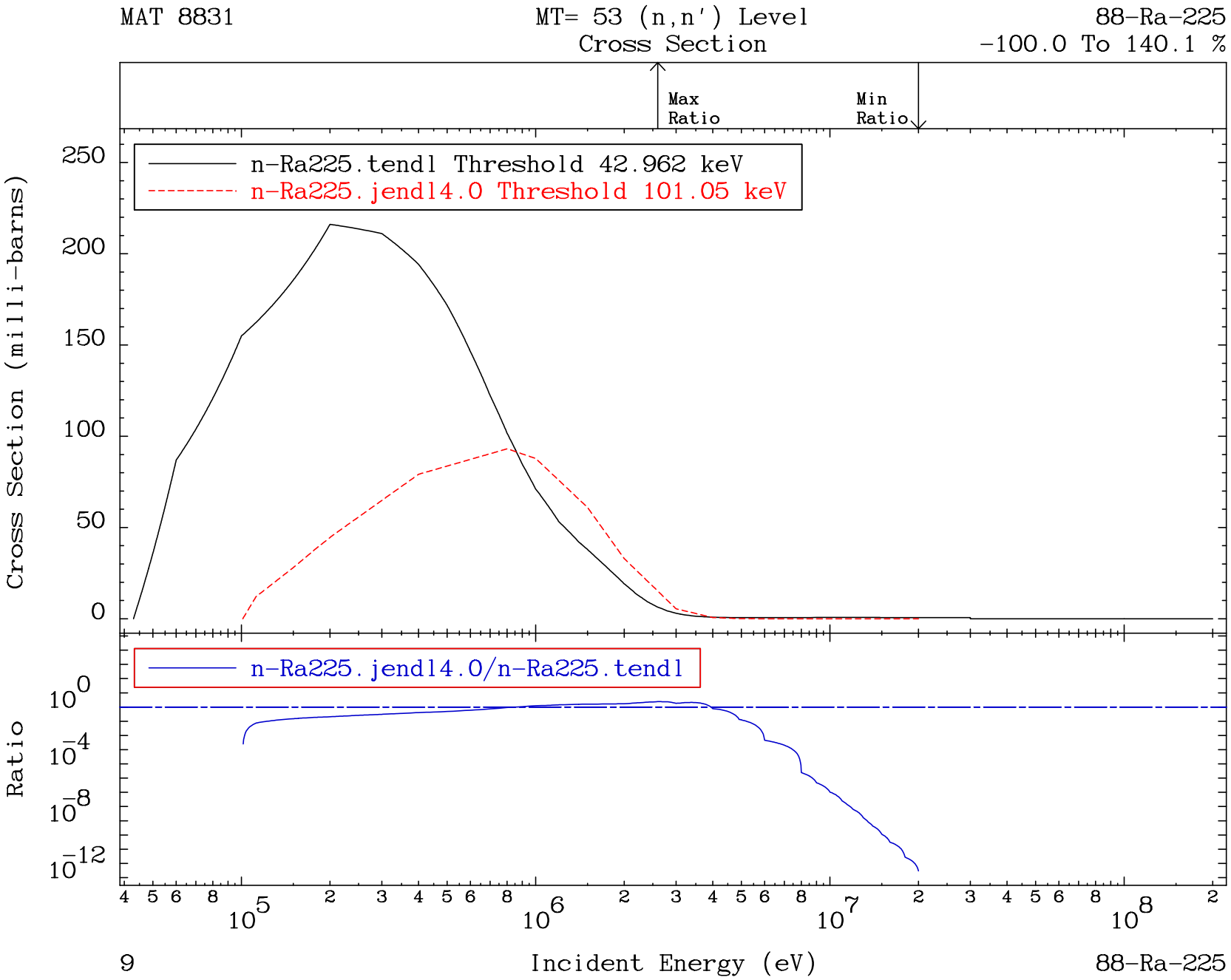

MAT 8831
(n,2n)
Cross Section
88-Ra-225
-99.16 To 1983. %
Max Ratio
Min Ratio
n-Ra225.tendl Threshold 4.9261 MeV
n-Ra225.jendl4.0 Threshold 4.9193 MeV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
10^2
10^0
10^-2
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
88-Ra-225

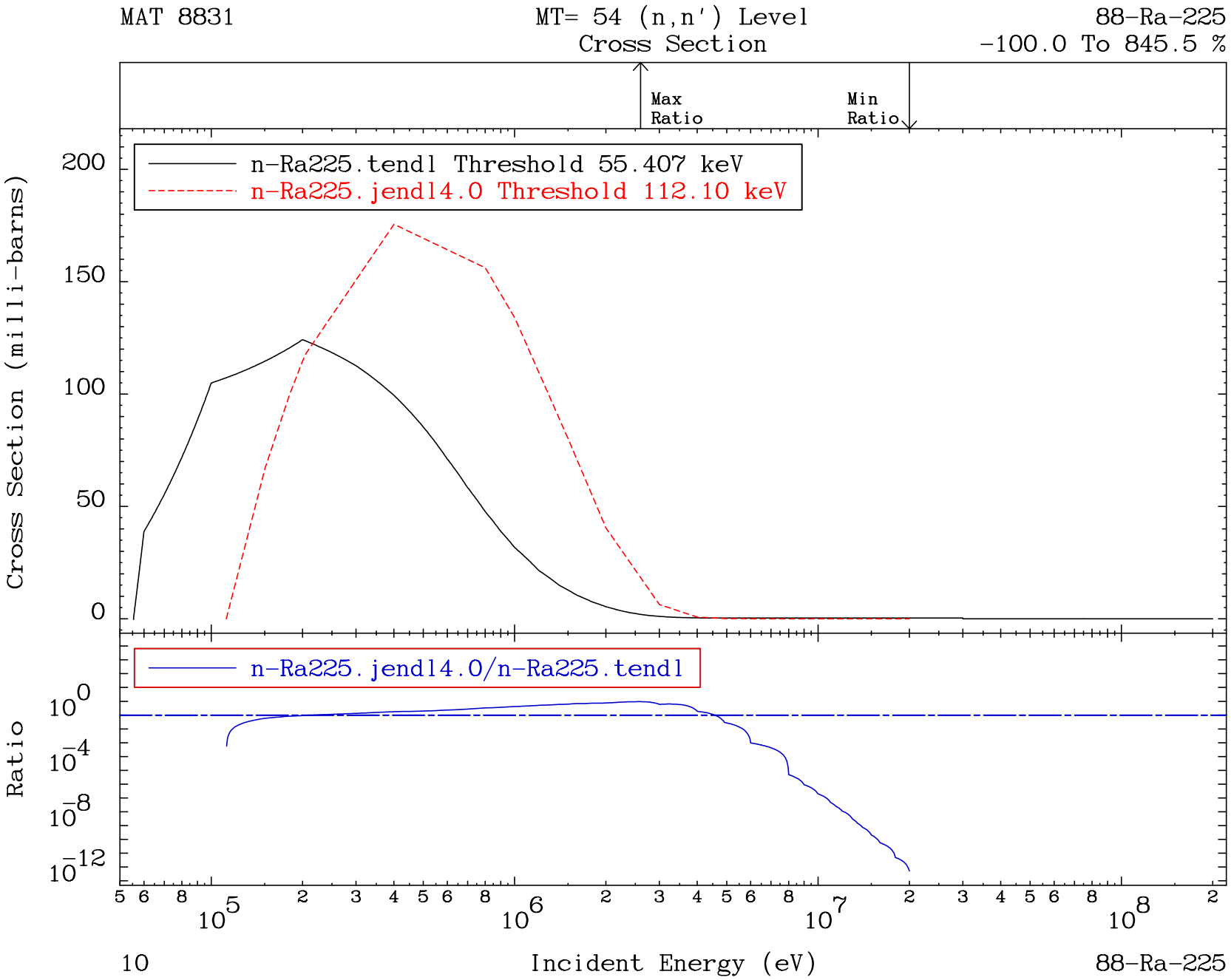

MAT 8831
(n,3n)
Cross Section
88-Ra-225
-18.60 To 2124. %
Max Ratio
Min Ratio
n-Ra225.tendl Threshold 11.434 MeV
n-Ra225.jendl4.0 Threshold 11.442 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
4
10^1
4
10^0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
88-Ra-225

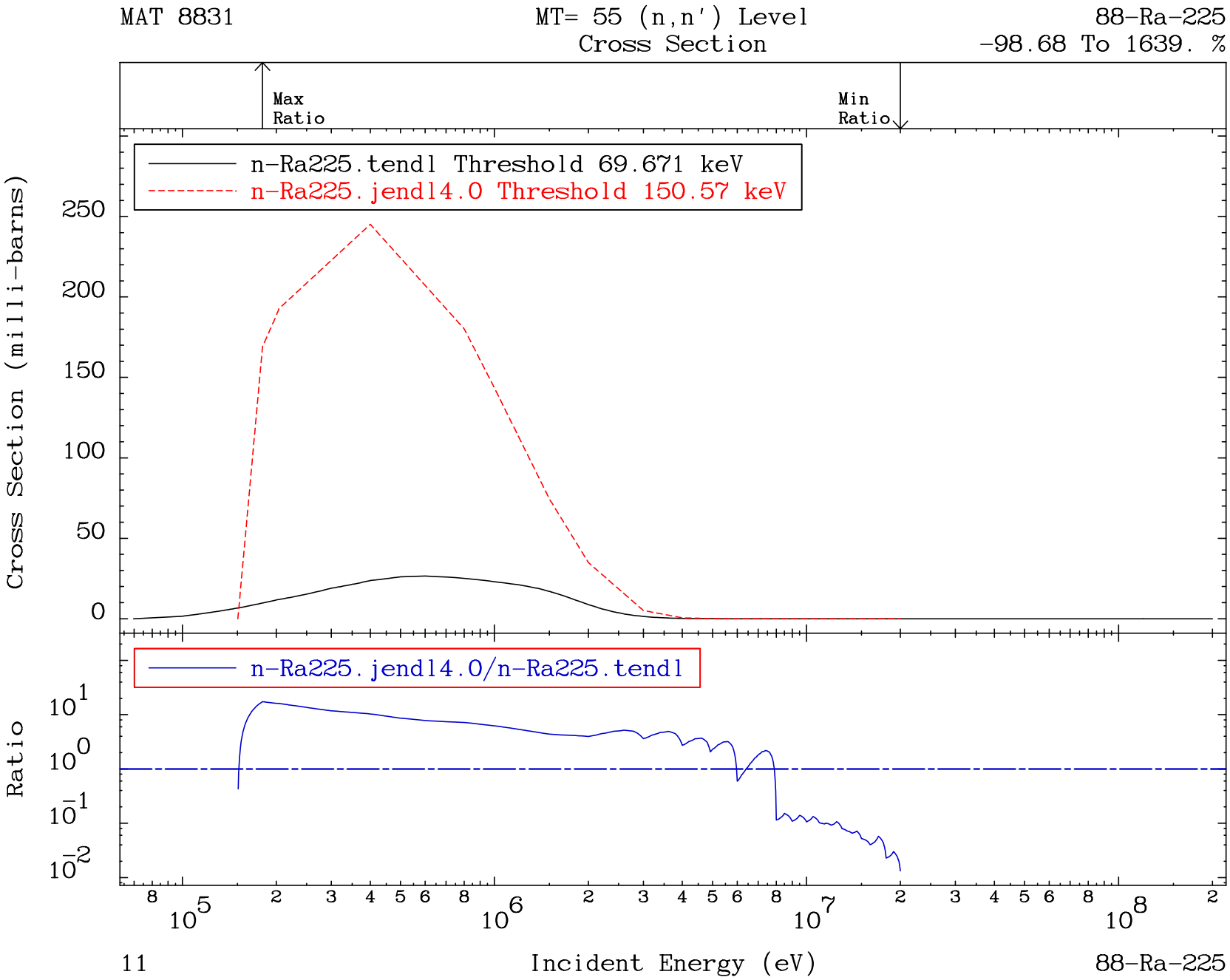

MAT 8831
(n,4n)
Cross Section
88-Ra-225
321.5 To 7462. %
Min
Ratio
n-Ra225.tendl Threshold 16.615 MeV
n-Ra225.jendl4.0 Threshold 16.615 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
10^2
6
4
10^1
6
4
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
88-Ra-225

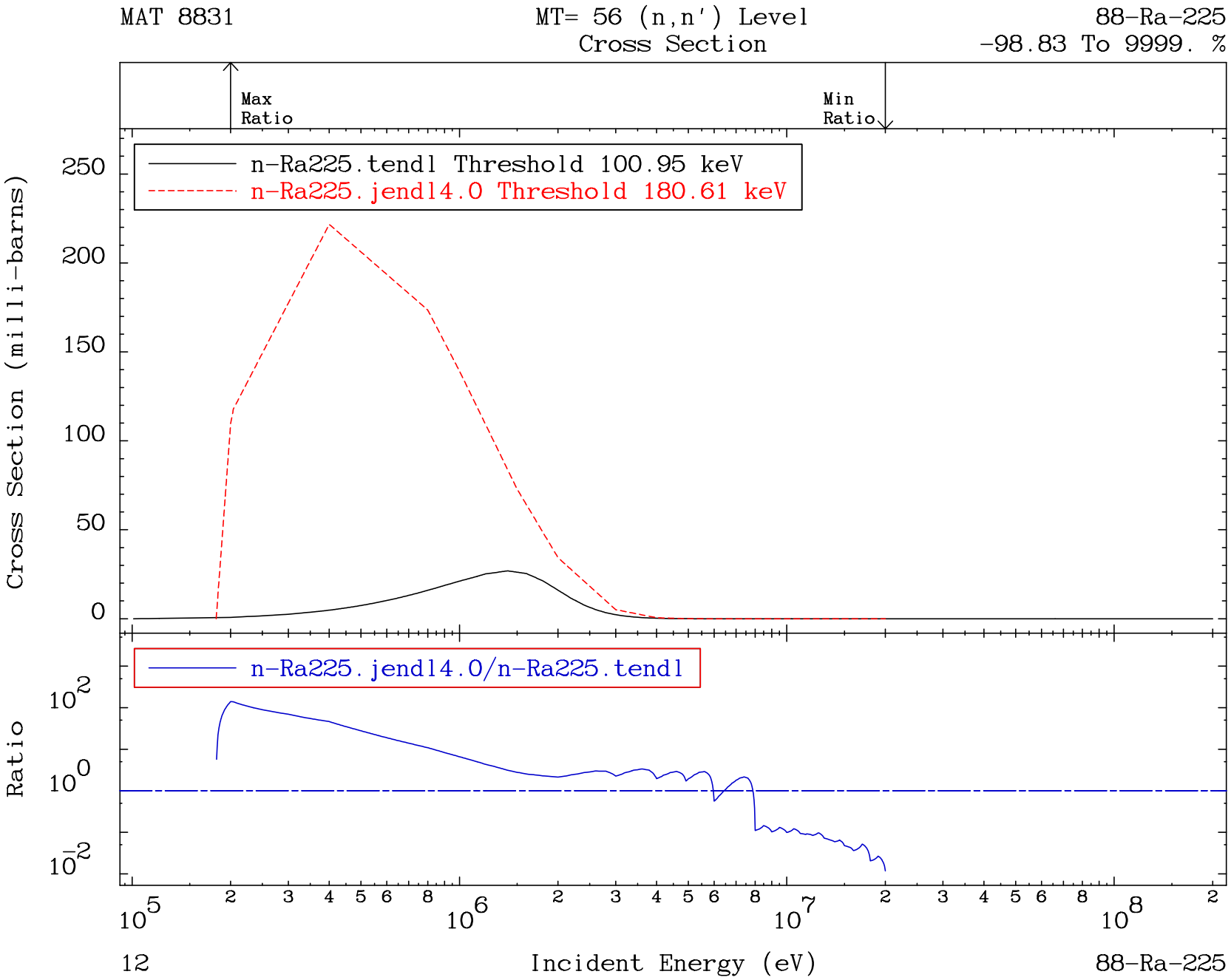

MAT 8831
MT= 51 (n,n') Level
Cross Section
88-Ra-225
-100.0 To 2920. %
Max
Ratio
Min
Ratio
n-Ra225.tendl Threshold 25.524 keV
n-Ra225.jendl4.0 Threshold 25.514 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
10^0
10^-5
10^-10
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
7
Incident Energy (eV)
88-Ra-225

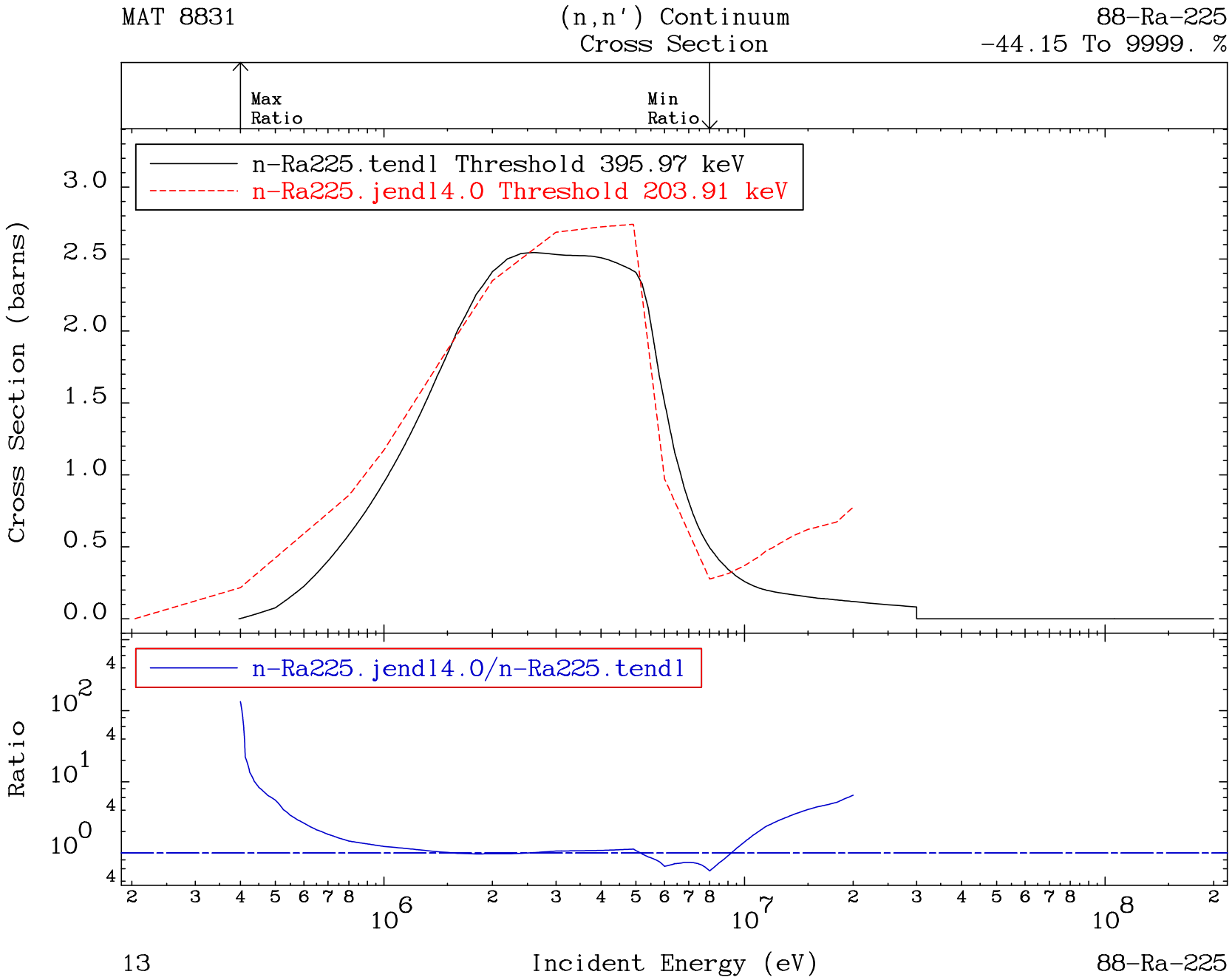

MAT 8831
MT= 52 (n,n') Level
Cross Section
88-Ra-225
-100.0 To 206.7 %
Max
Ratio
Min
Ratio
n-Ra225.tendl Threshold 31.702 keV
n-Ra225.jendl4.0 Threshold 42.992 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
10^0
10^-4
10^-8
10^-12
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
8
Incident Energy (eV)
88-Ra-225

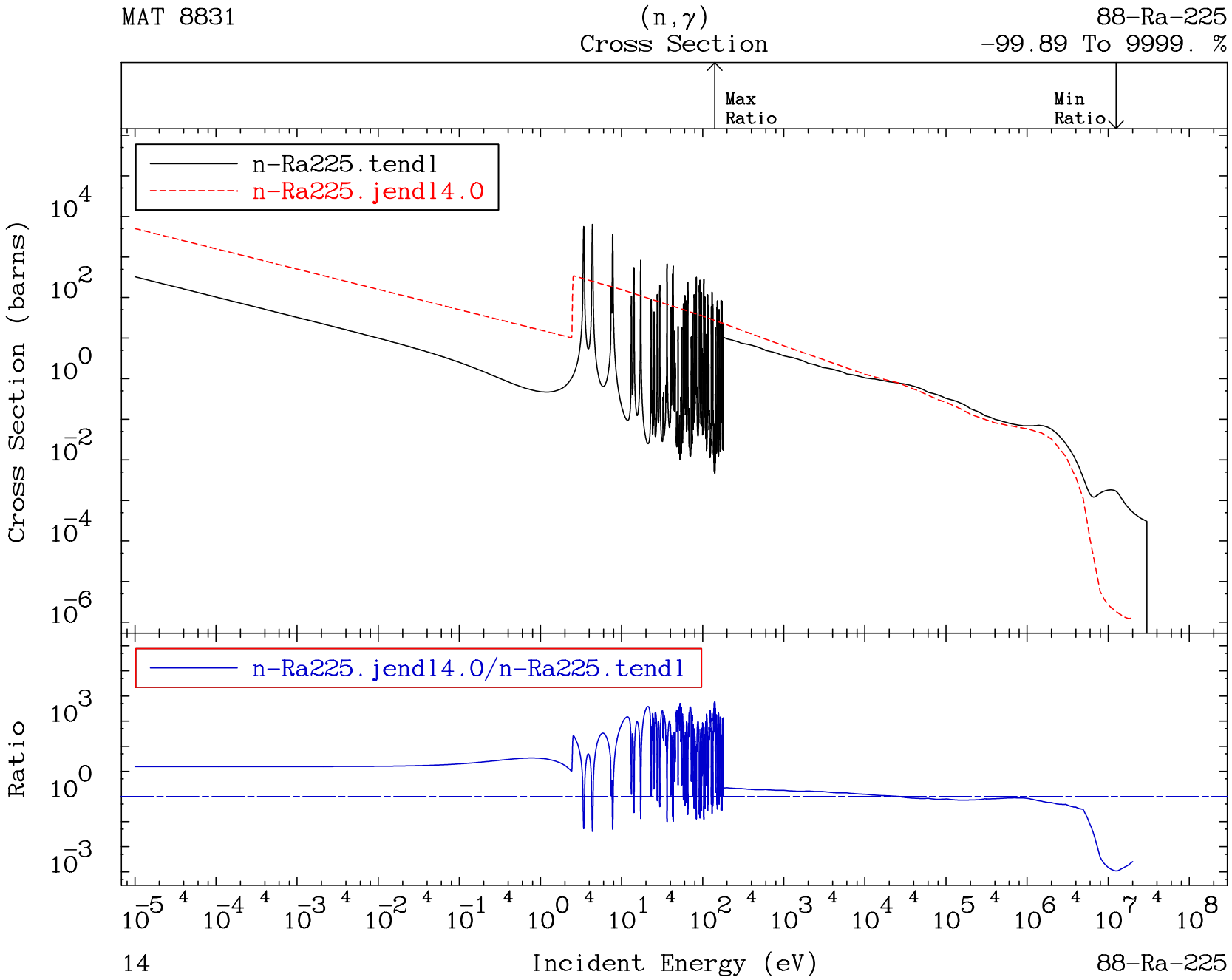

MAT 8831
MT= 53 (n,n') Level
Cross Section
88-Ra-225
-100.0 To 140.1 %
Max Ratio
Min Ratio
n-Ra225.tendl Threshold 42.962 keV
n-Ra225.jendl4.0 Threshold 101.05 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
10^0
10^-4
10^-8
10^-12
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
9
Incident Energy (eV)
88-Ra-225

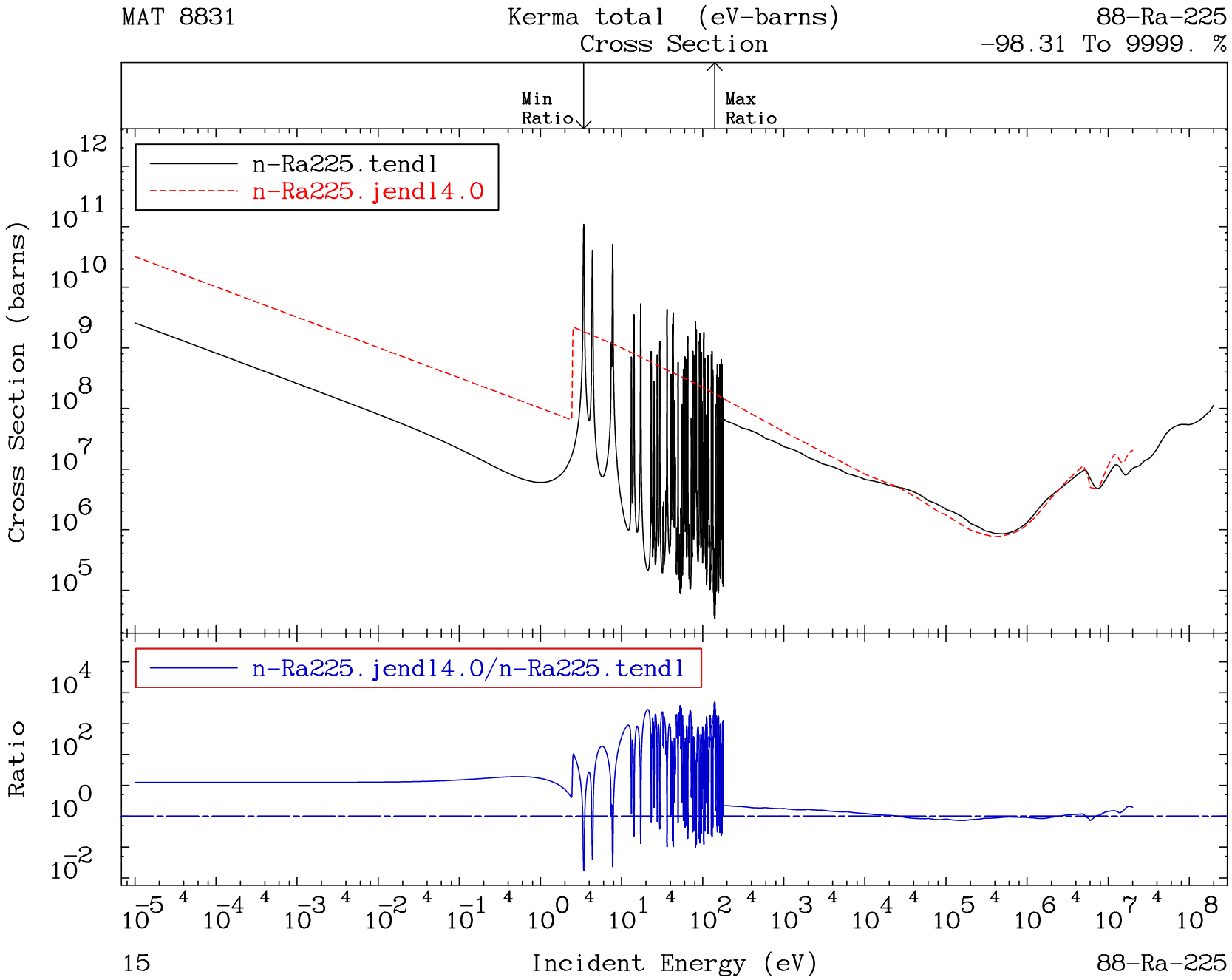

MAT 8831
MT= 54 (n,n') Level
Cross Section
88-Ra-225
-100.0 To 845.5 %
Max
Ratio
Min
Ratio
n-Ra225.tendl Threshold 55.407 keV
n-Ra225.jendl4.0 Threshold 112.10 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
10^0
10^-4
10^-8
10^-12
5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
10
Incident Energy (eV)
88-Ra-225

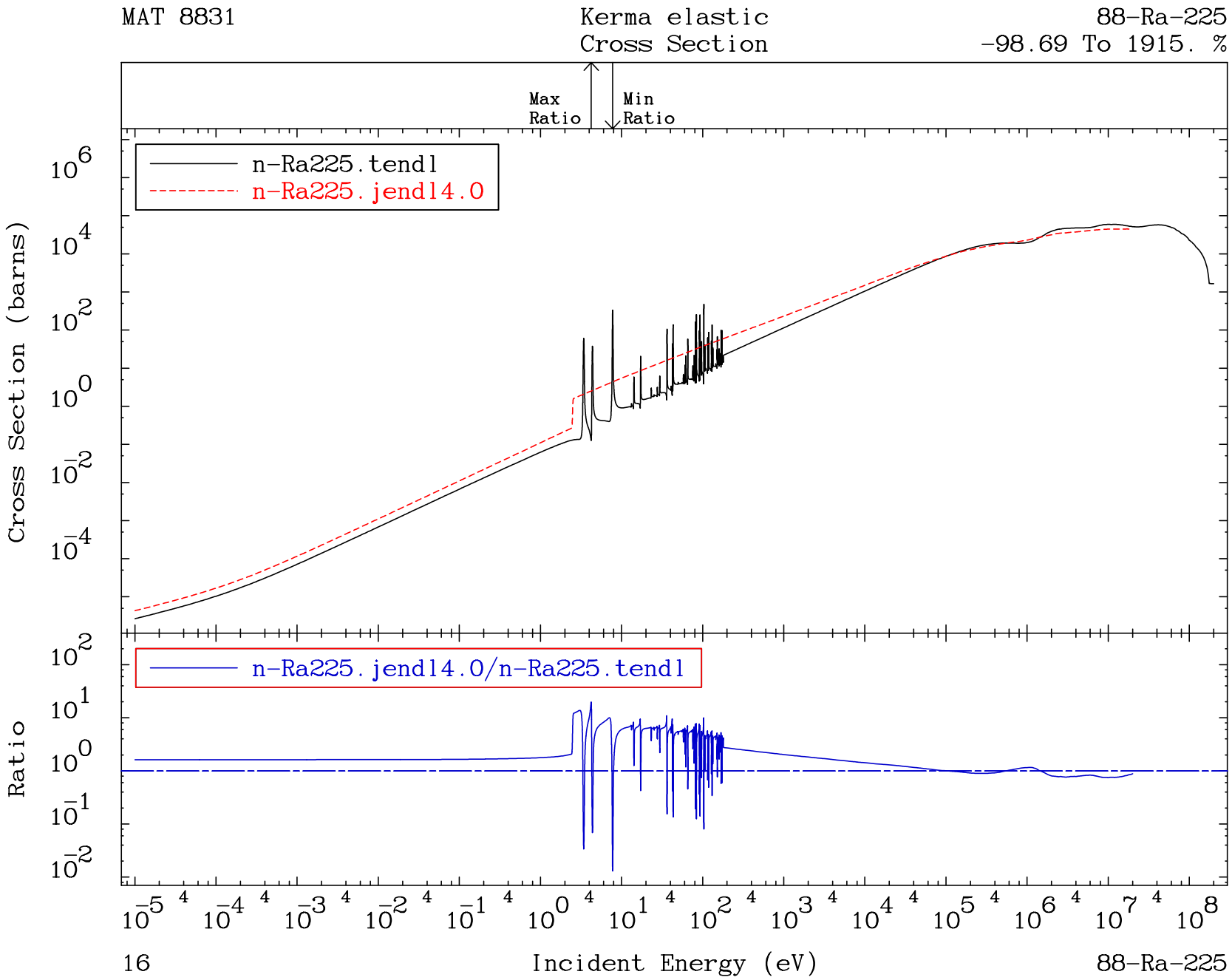

MAT 8831
MT= 55 (n,n') Level
Cross Section
88-Ra-225
-98.68 To 1639. %
Max
Ratio
Min
Ratio
n-Ra225.tendl Threshold 69.671 keV
n-Ra225.jendl4.0 Threshold 150.57 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
10^1
10^0
10^-1
10^-2
8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
11
Incident Energy (eV)
88-Ra-225

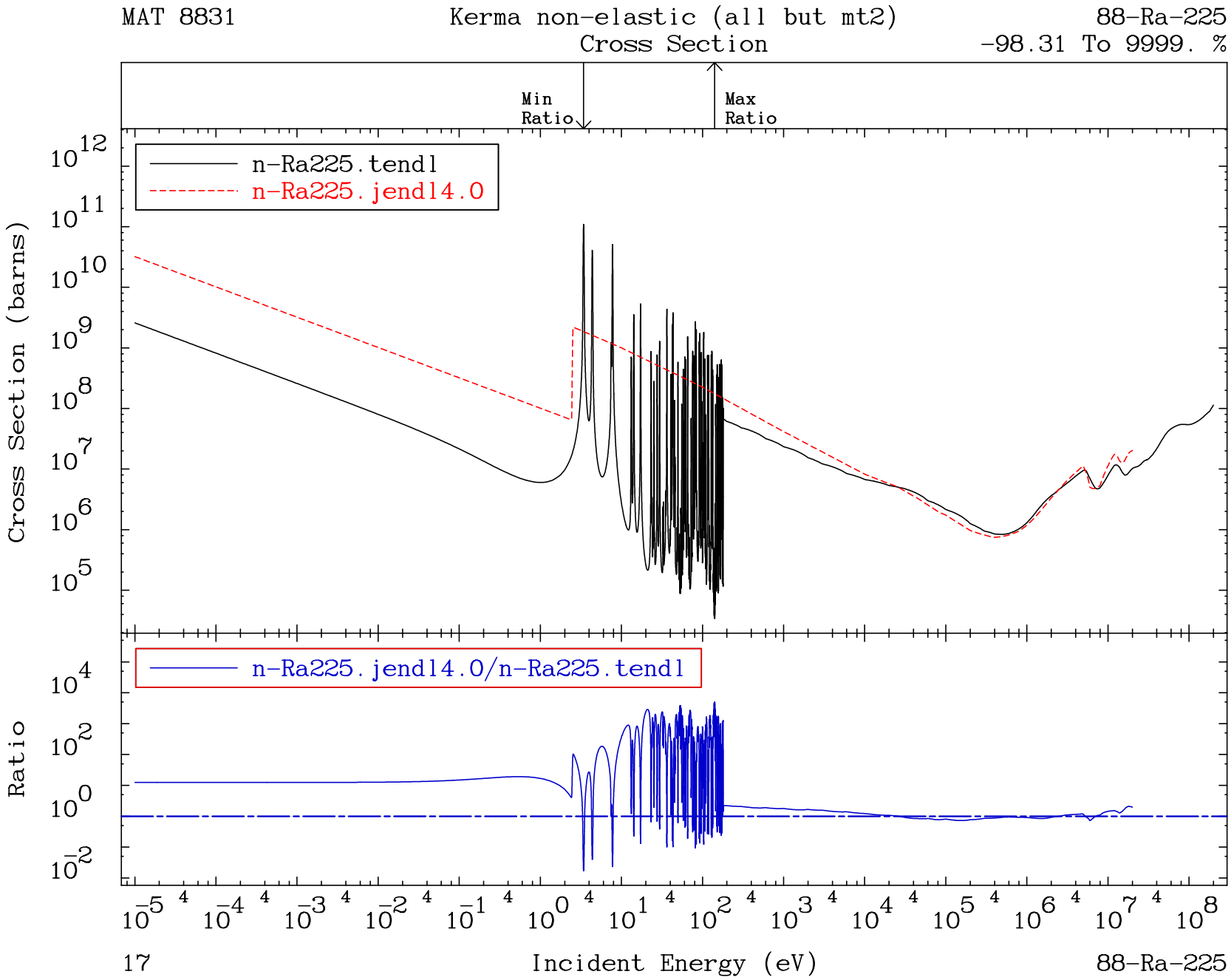

MAT 8831
MT= 56 (n,n') Level
Cross Section
88-Ra-225
-98.83 To 9999. %
Max
Ratio
Min
Ratio
n-Ra225.tendl Threshold 100.95 keV
n-Ra225.jendl4.0 Threshold 180.61 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
10^2
10^0
10^-2
10^5
2 3 4 5 6 8
10^6
2 3 4 5 6 8
10^7
2 3 4 5 6 8
10^8
2
12
Incident Energy (eV)
88-Ra-225

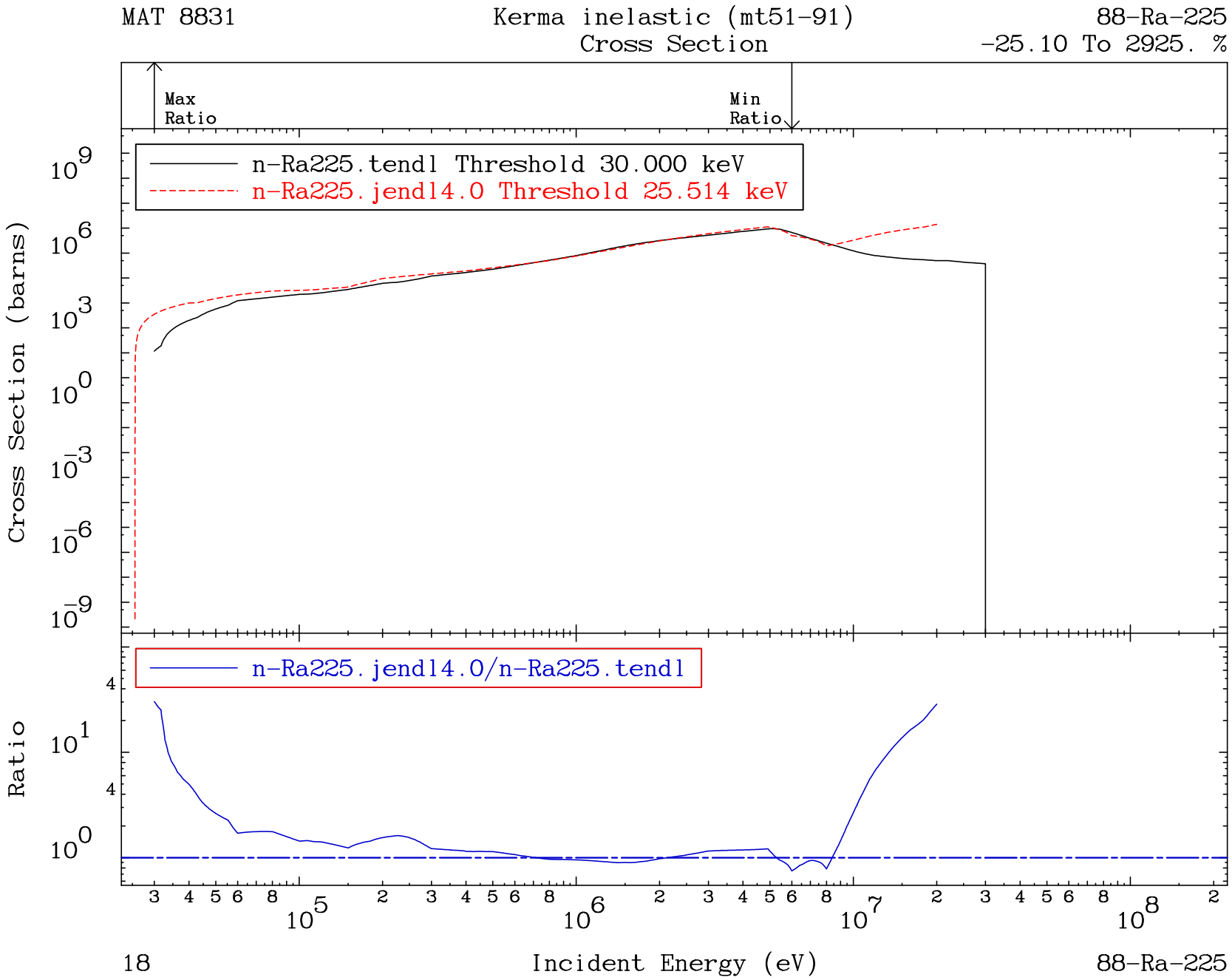

MAT 8831
(n,n') Continuum
Cross Section
88-Ra-225
-44.15 To 9999. %
Max
Ratio
Min
Ratio
n-Ra225.tendl Threshold 395.97 keV
n-Ra225.jendl4.0 Threshold 203.91 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
10^2
10^1
10^0
10^6
10^7
10^8
13
Incident Energy (eV)
88-Ra-225

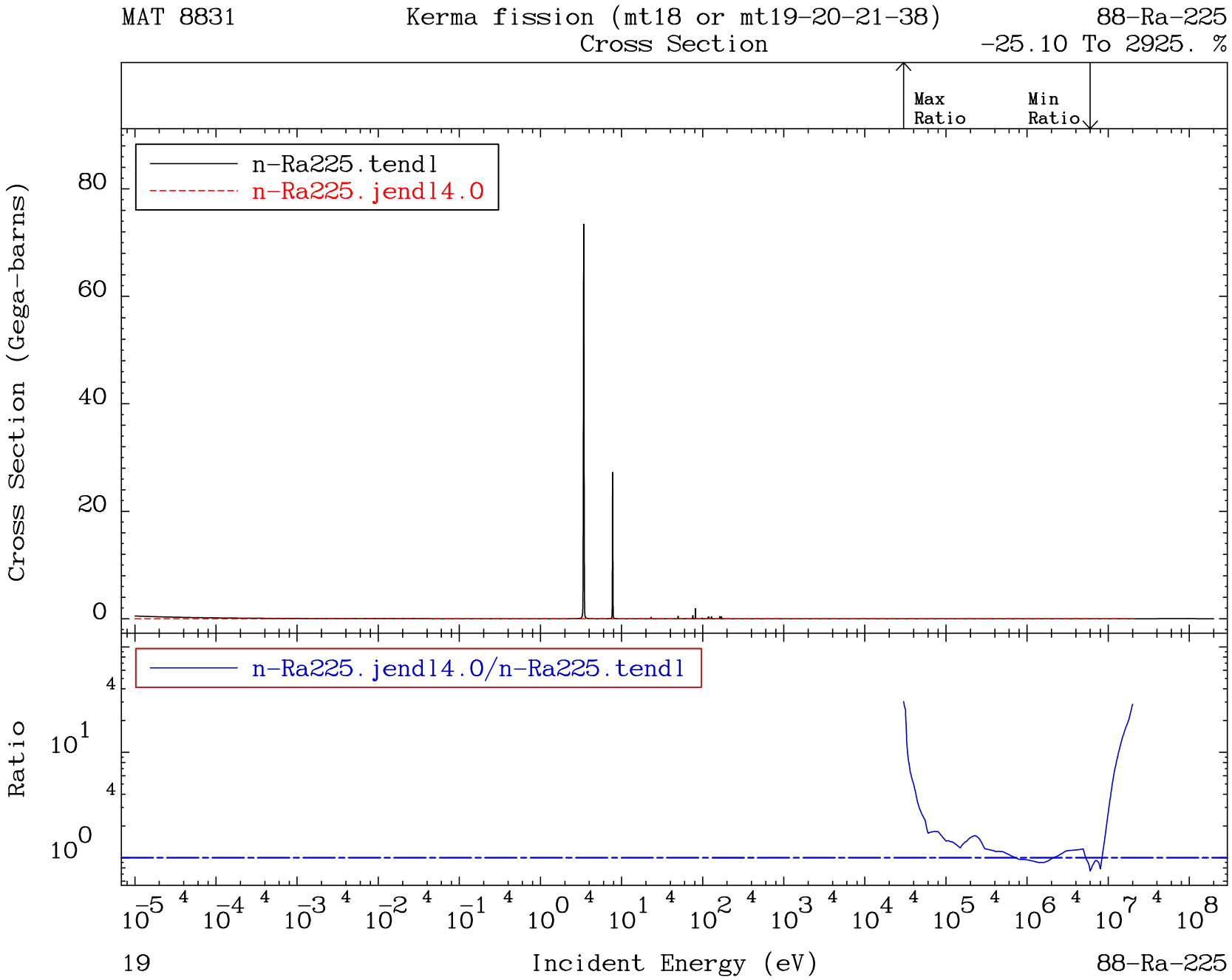

MAT 8831
(n,γ)
Cross Section
88-Ra-225
-99.89 To 9999. %
Max Ratio
Min Ratio
n-Ra225.tendl
n-Ra225.jendl4.0
Cross Section (barns)
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
Incident Energy (eV)
14
88-Ra-225

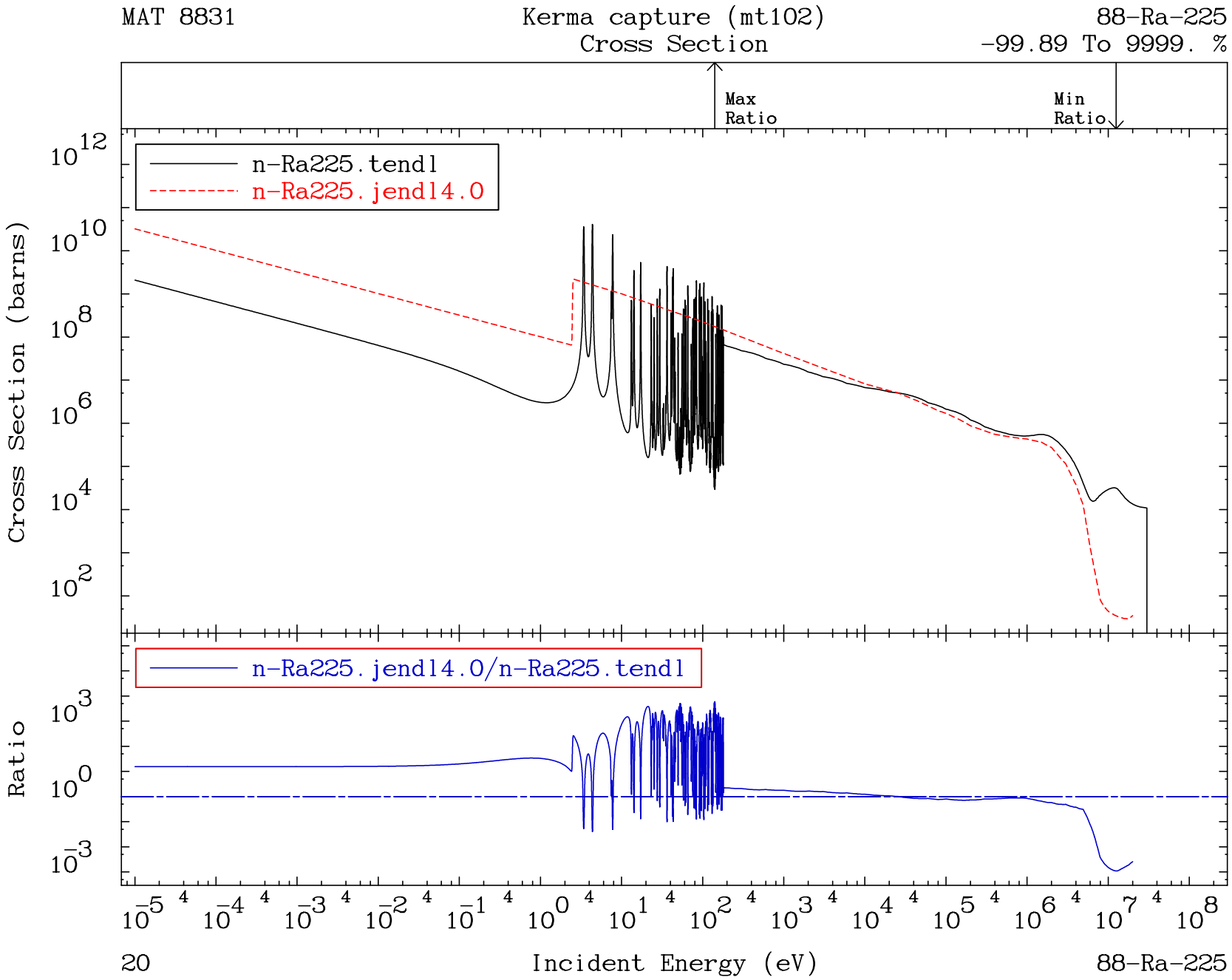

MAT 8831
Kerma total (eV-barns)
Cross Section
88-Ra-225
-98.31 To 9999. %
Min Ratio
Max Ratio
n-Ra225.tendl
n-Ra225.jendl4.0
Cross Section (barns)
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
Incident Energy (eV)
15
88-Ra-225

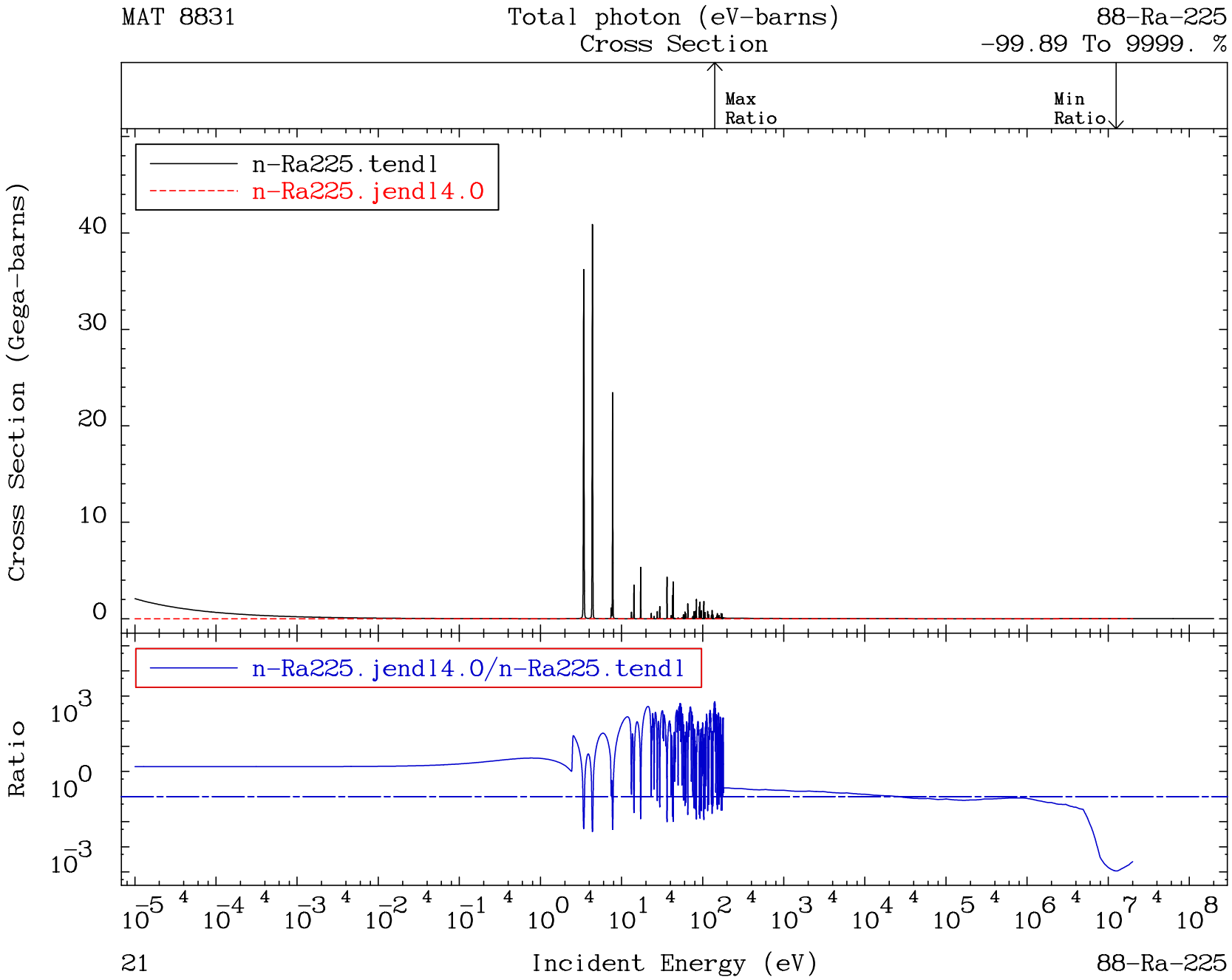

MAT 8831
Kerma elastic
Cross Section
88-Ra-225
-98.69 To 1915. %
Max
Ratio
Min
Ratio
n-Ra225.tendl
n-Ra225.jendl4.0
Cross Section (barns)
Ratio
n-Ra225.jendl4.0/n-Ra225.tendl
Incident Energy (eV)
16
88-Ra-225

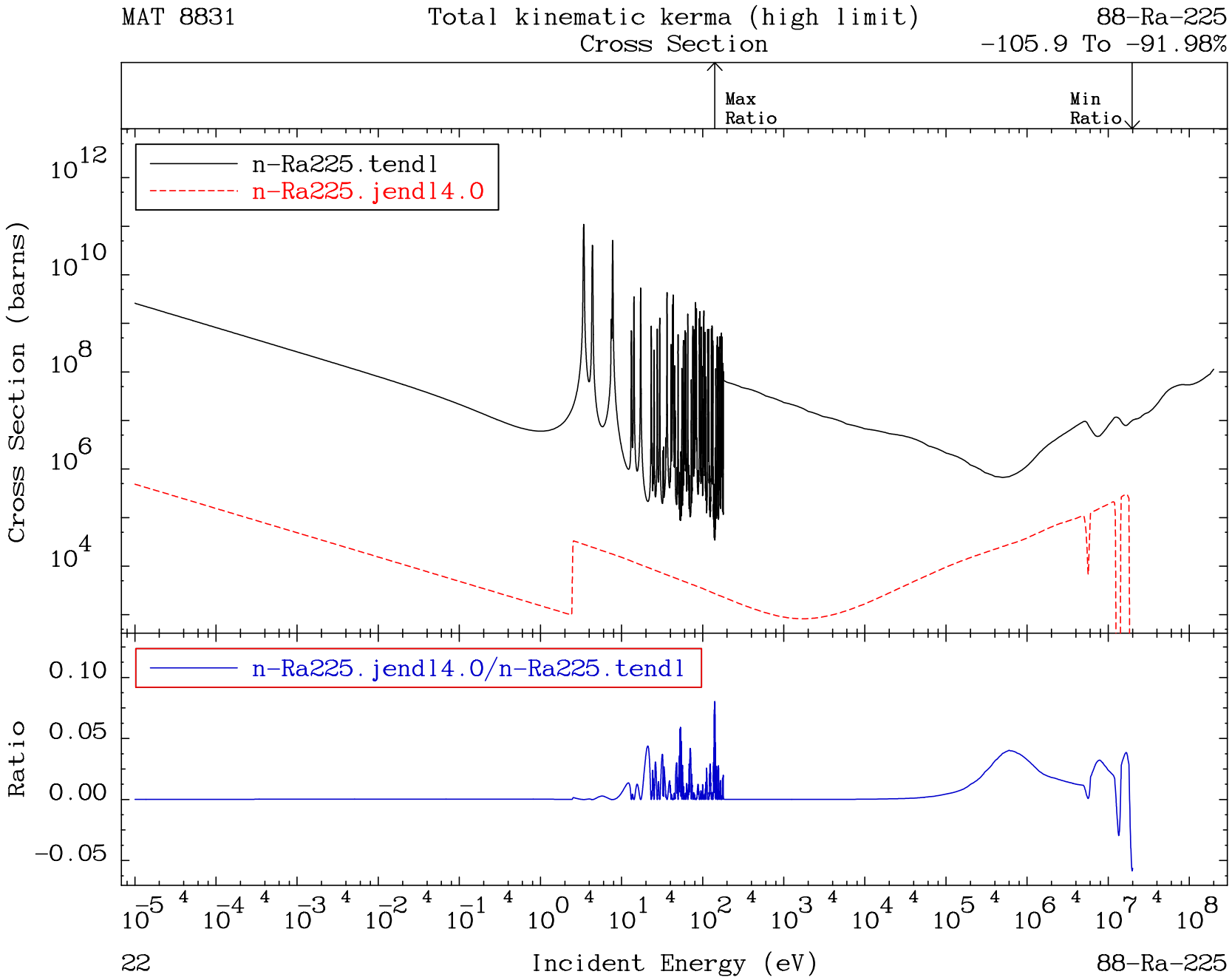

MAT 8831
Kerma non-elastic (all but mt2)
Cross Section
88-Ra-225
-98.31 To 9999. %
Min Ratio
Max Ratio
n-Ra225.tendl
n-Ra225.jendl4.0
Cross Section (barns)
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
Incident Energy (eV)
17
88-Ra-225

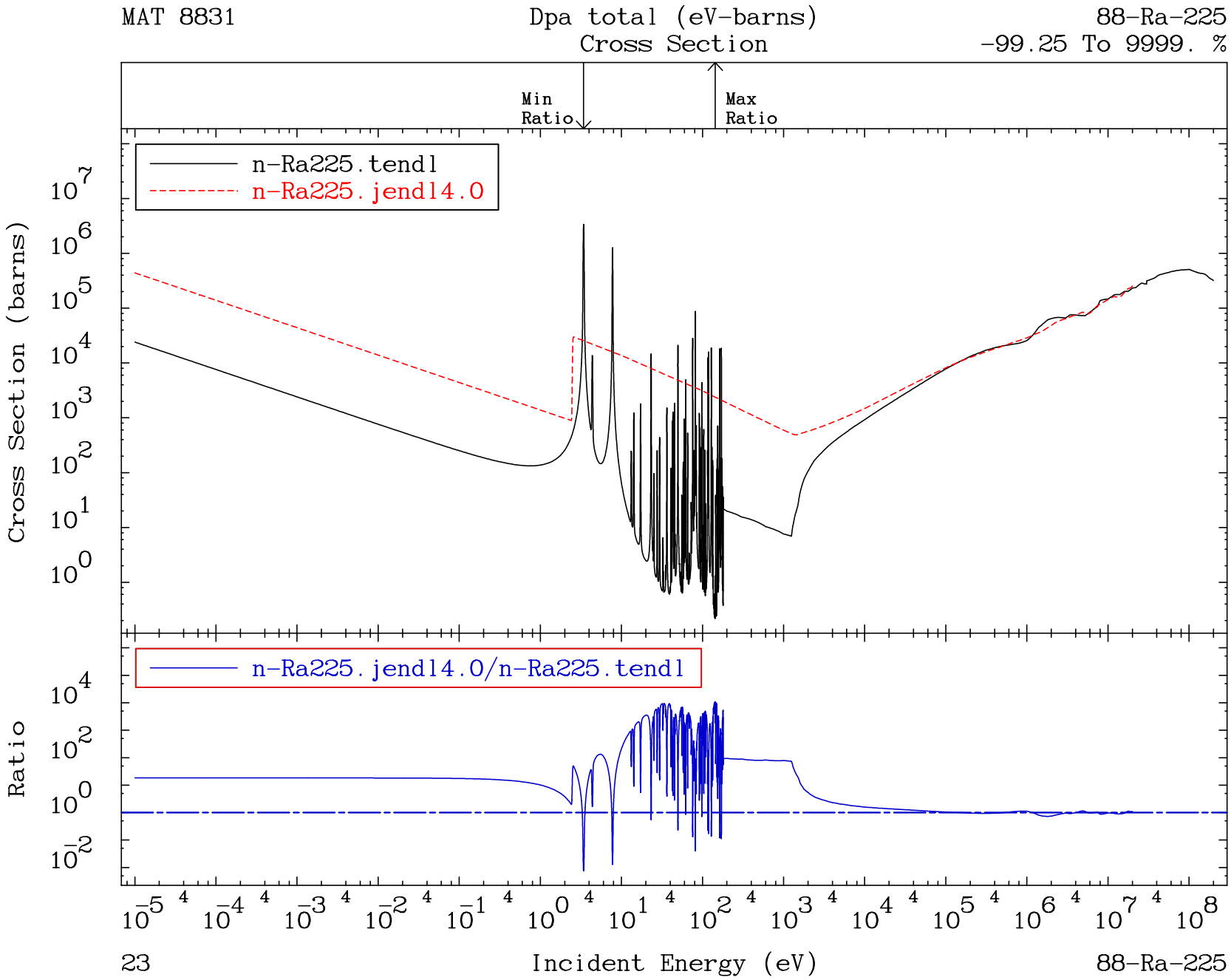

MAT 8831
Kerma inelastic (mt51-91)
Cross Section
88-Ra-225
-25.10 To 2925. %
Max Ratio
Min Ratio
n-Ra225.tendl Threshold 30.000 keV
n-Ra225.jendl4.0 Threshold 25.514 keV
Cross Section (barns)
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
Incident Energy (eV)
18
88-Ra-225

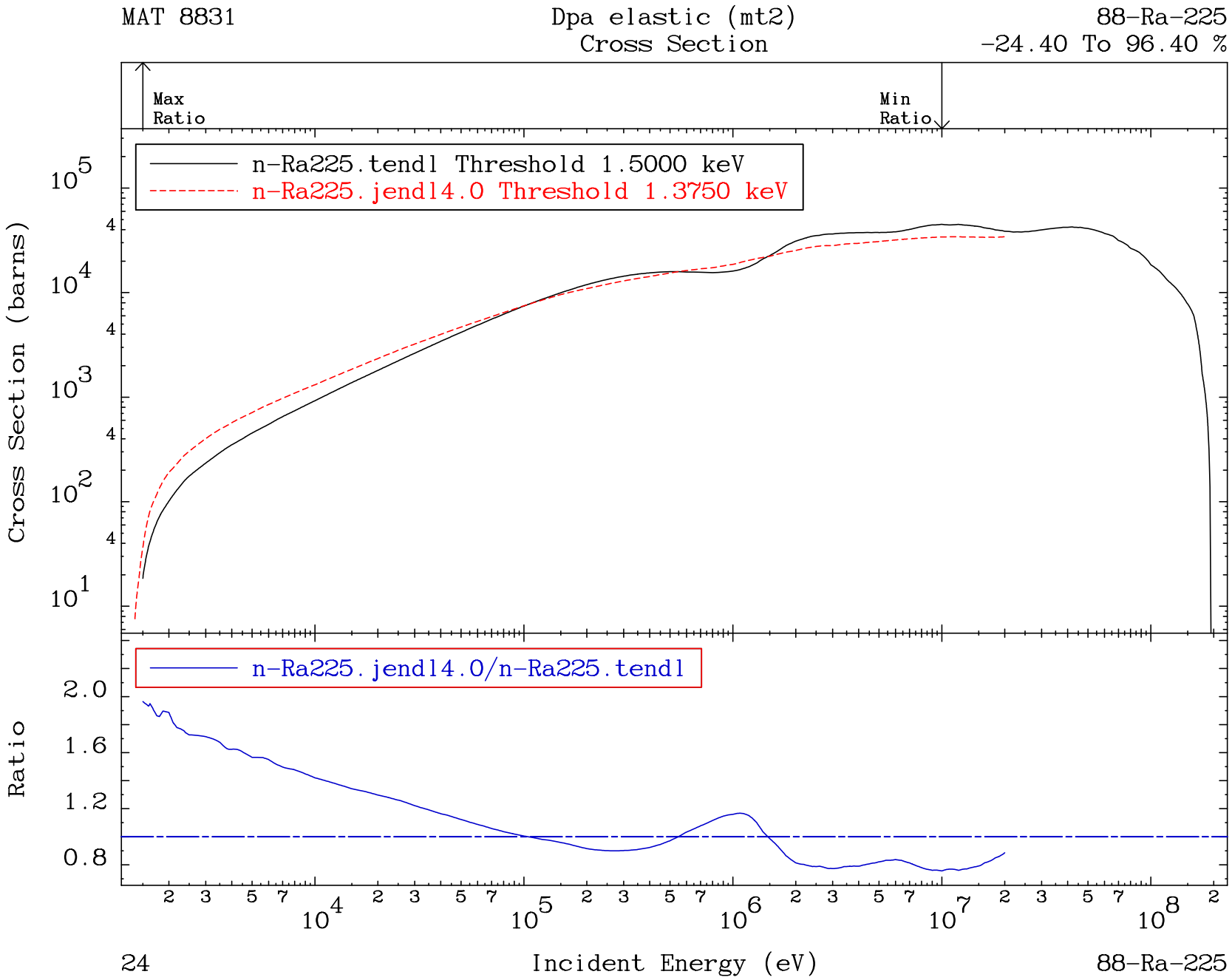

MAT 8831
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
88-Ra-225
-25.10 To 2925. %
Max Ratio
Min Ratio
n-Ra225.tendl
n-Ra225.jendl4.0
Cross Section (Giga-barns)
80
60
40
20
0
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
4
10^1
4
10^0
10^-5 4 10^-4 4 10^-3 4 10^-2 4 10^-1 4 10^0 4 10^1 4 10^2 4 10^3 4 10^4 4 10^5 4 10^6 4 10^7 4 10^8
19
Incident Energy (eV)
88-Ra-225

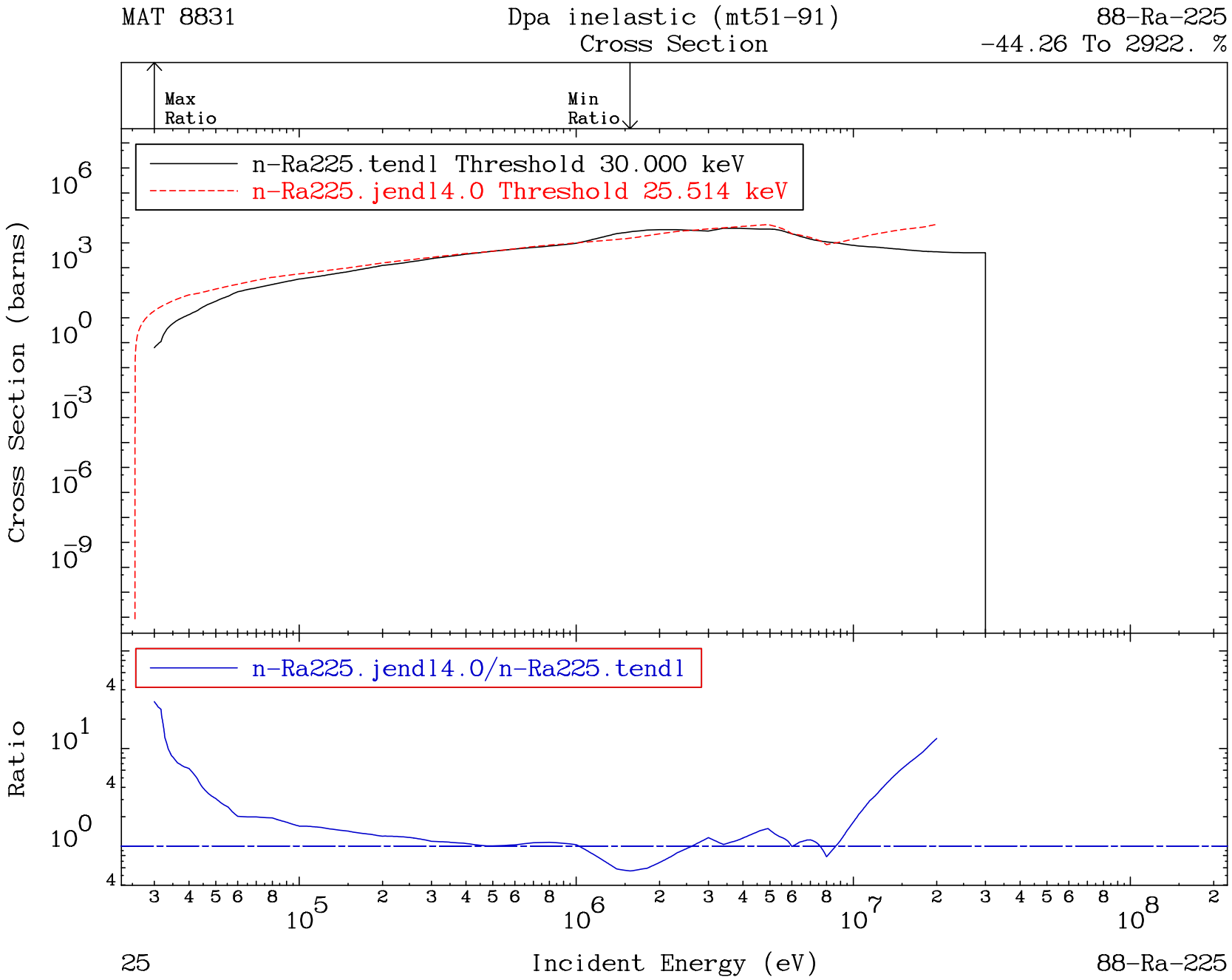

MAT 8831
Kerma capture (mt102)
Cross Section
88-Ra-225
-99.89 To 9999. %
Max Ratio
Min Ratio
n-Ra225.tendl
n-Ra225.jendl4.0
Cross Section (barns)
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
Incident Energy (eV)
20
88-Ra-225

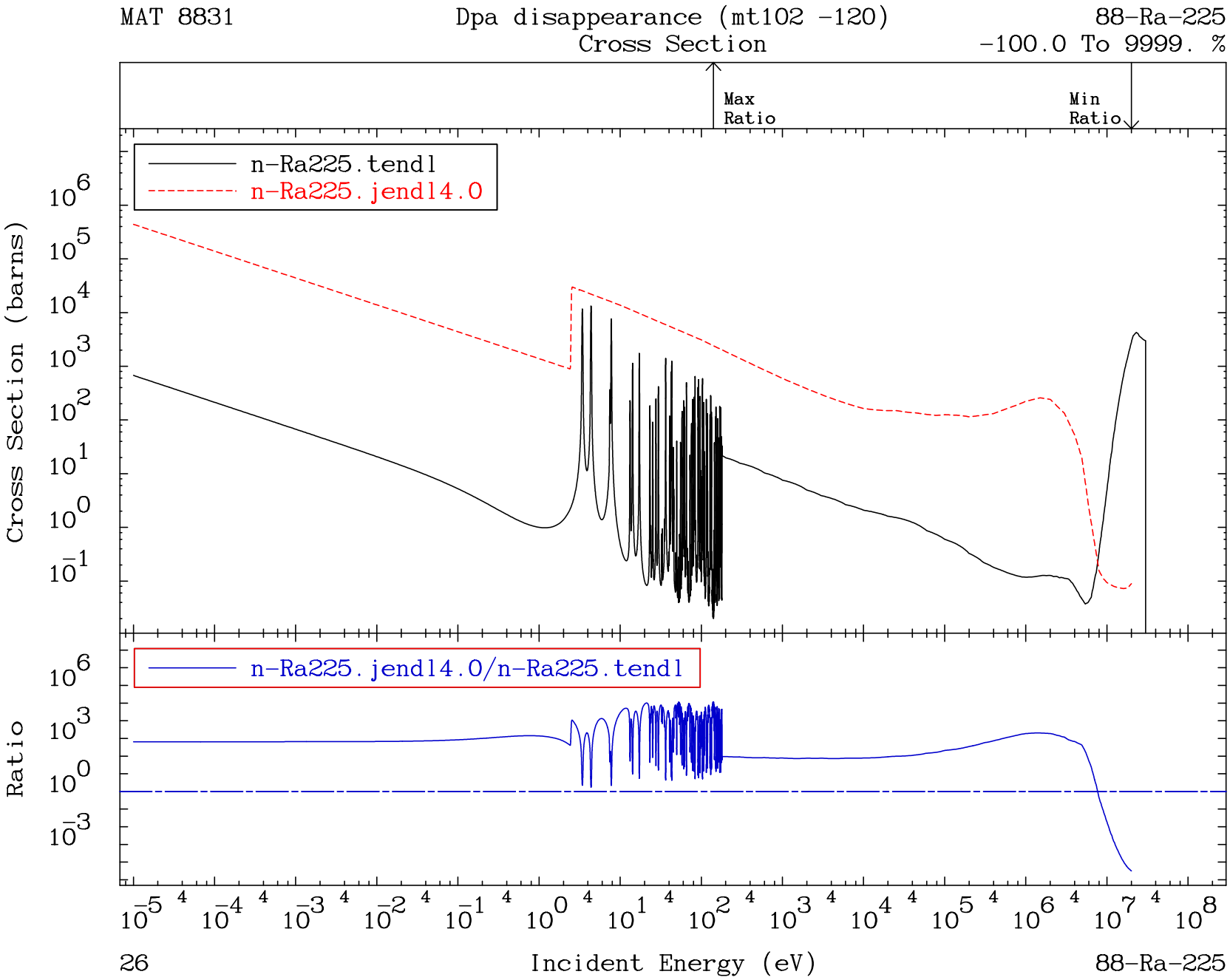

MAT 8831
Total photon (eV-barns)
Cross Section
88-Ra-225
-99.89 To 9999. %
Max
Ratio
Min
Ratio
n-Ra225.tendl
n-Ra225.jendl4.0
Cross Section (Gega-barns)
40
30
20
10
0
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
10^3
10^0
10^-3
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1
10^2
10^3
10^4
10^5
10^6
10^7
10^8
21
Incident Energy (eV)
88-Ra-225


MAT 8831
Total kinematic kerma (high limit)
Cross Section
88-Ra-225
-105.9 To -91.98%
Max Ratio
Min Ratio
n-Ra225.tendl
n-Ra225.jendl4.0
Cross Section (barns)
10^{12}
10^{10}
10^{8}
10^{6}
10^{4}
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
0.10
0.05
0.00
-0.05
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
22
Incident Energy (eV)
88-Ra-225


MAT 8831
Dpa total (eV-barns)
Cross Section
88-Ra-225
-99.25 To 9999. %
Min Ratio
Max Ratio
n-Ra225.tendl
n-Ra225.jendl4.0
Cross Section (barns)
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
Incident Energy (eV)
23
88-Ra-225


MAT 8831
Dpa elastic (mt2)
Cross Section
88-Ra-225
-24.40 To 96.40 %
Max Ratio
Min Ratio
n-Ra225.tendl Threshold 1.5000 keV
n-Ra225.jendl4.0 Threshold 1.3750 keV
Cross Section (barns)
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
Incident Energy (eV)
24
88-Ra-225


MAT 8831
Dpa inelastic (mt51-91)
Cross Section
88-Ra-225
-44.26 To 2922. %
Max Ratio
Min Ratio
n-Ra225.tendl Threshold 30.000 keV
n-Ra225.jendl4.0 Threshold 25.514 keV
Cross Section (barns)
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
Incident Energy (eV)
25
88-Ra-225


MAT 8831
Dpa disappearance (mt102 -120)
Cross Section
88-Ra-225
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Ra225.tendl
n-Ra225.jendl4.0
Cross Section (barns)
n-Ra225.jendl4.0/n-Ra225.tendl
Ratio
Incident Energy (eV)
26
88-Ra-225