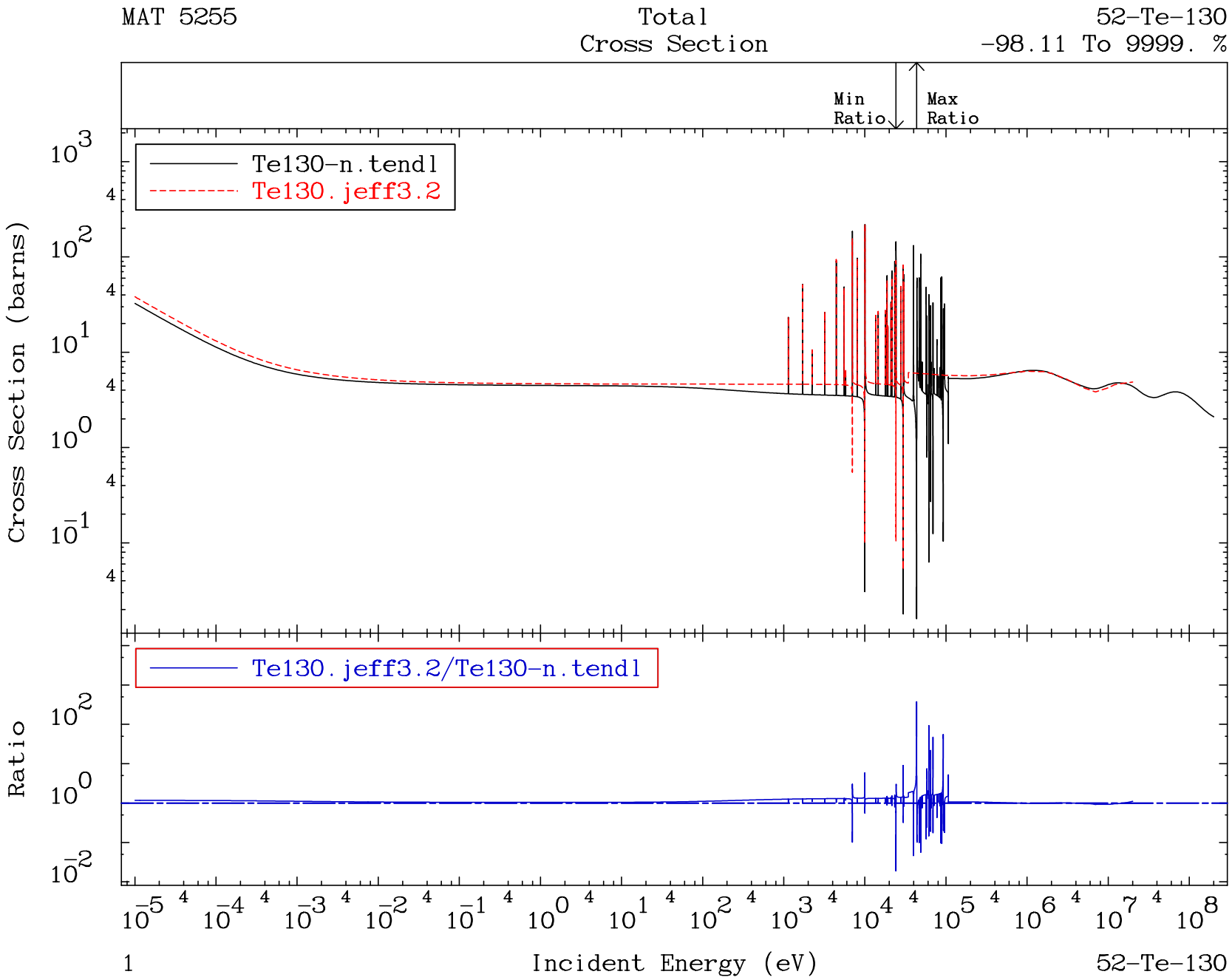
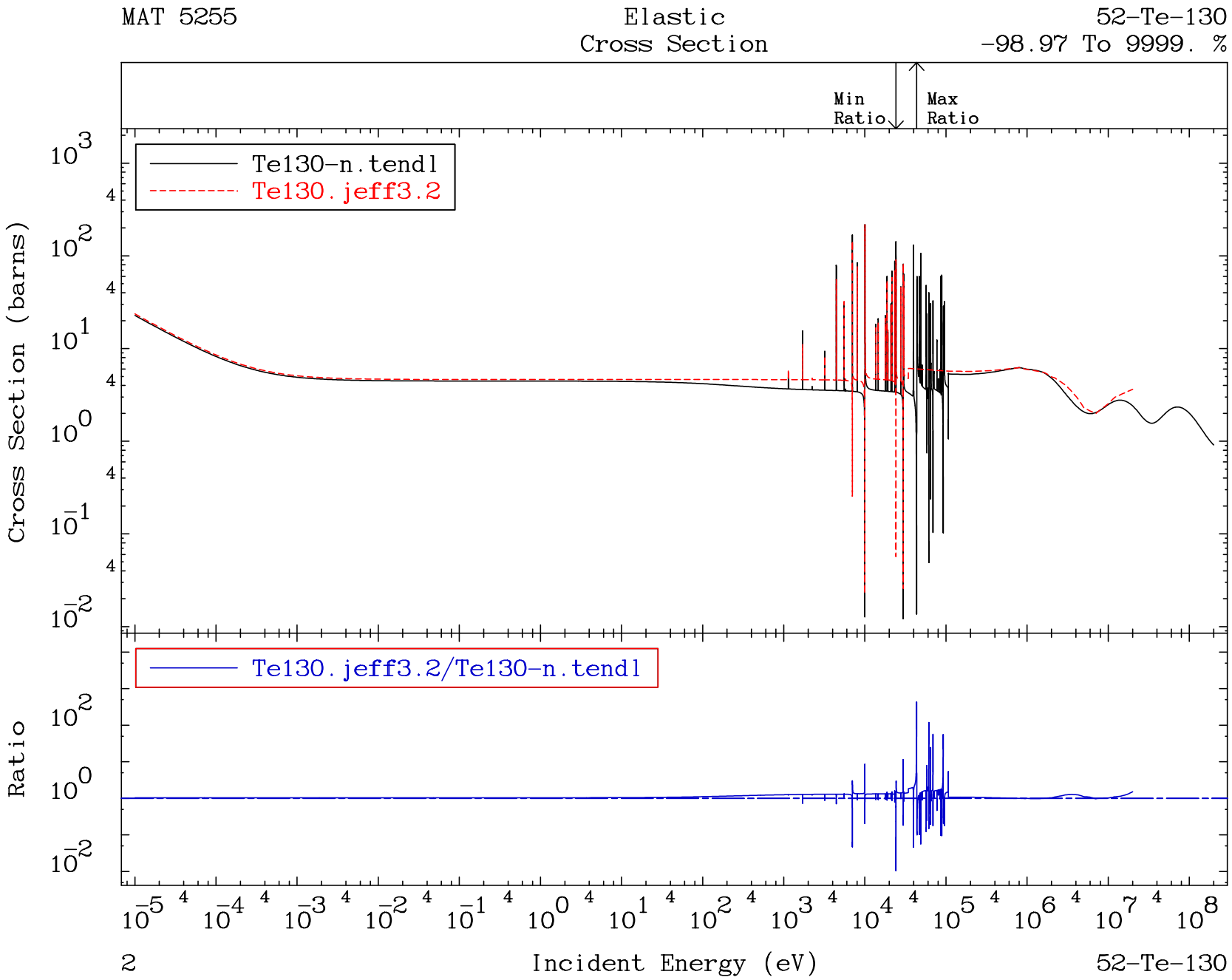
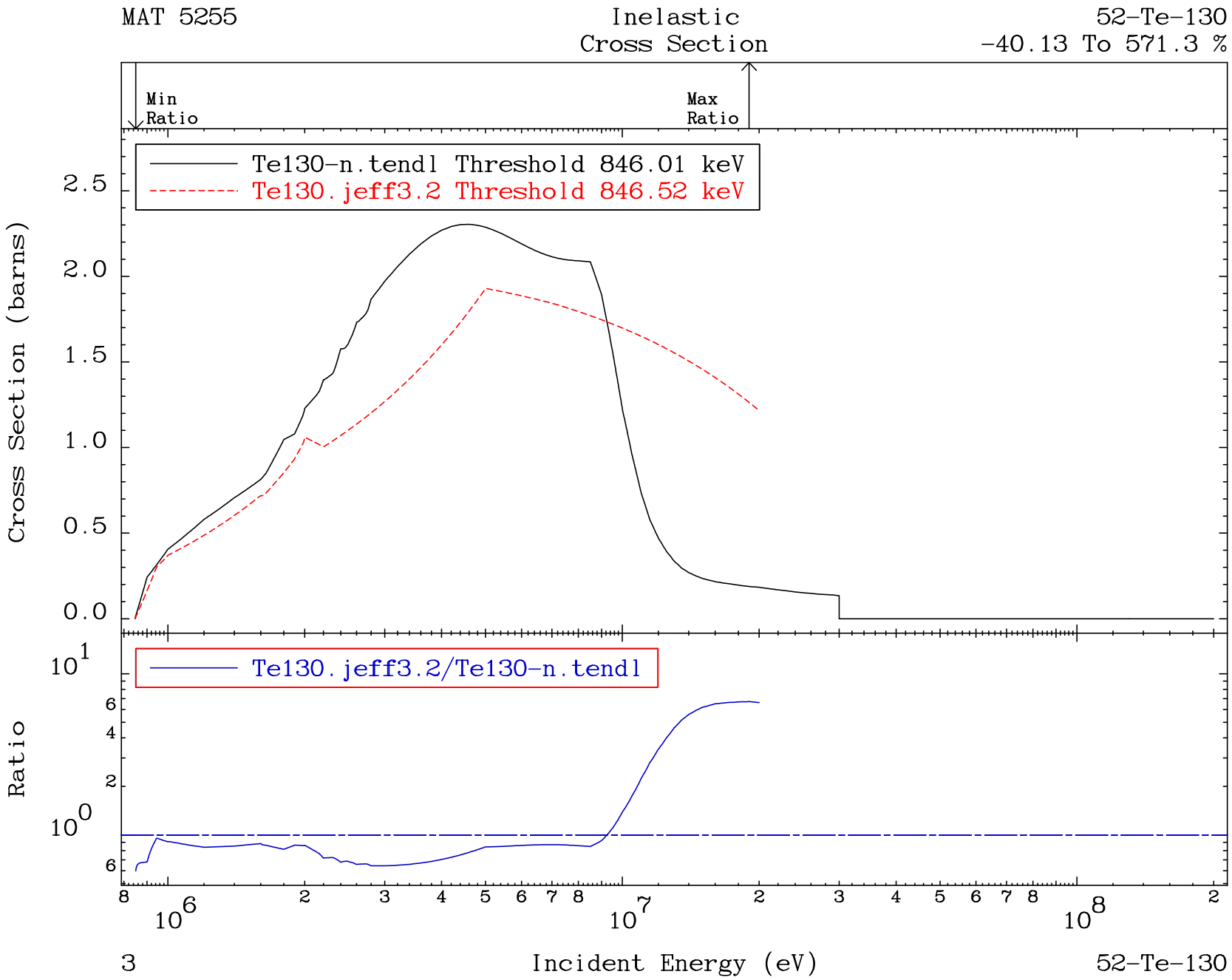
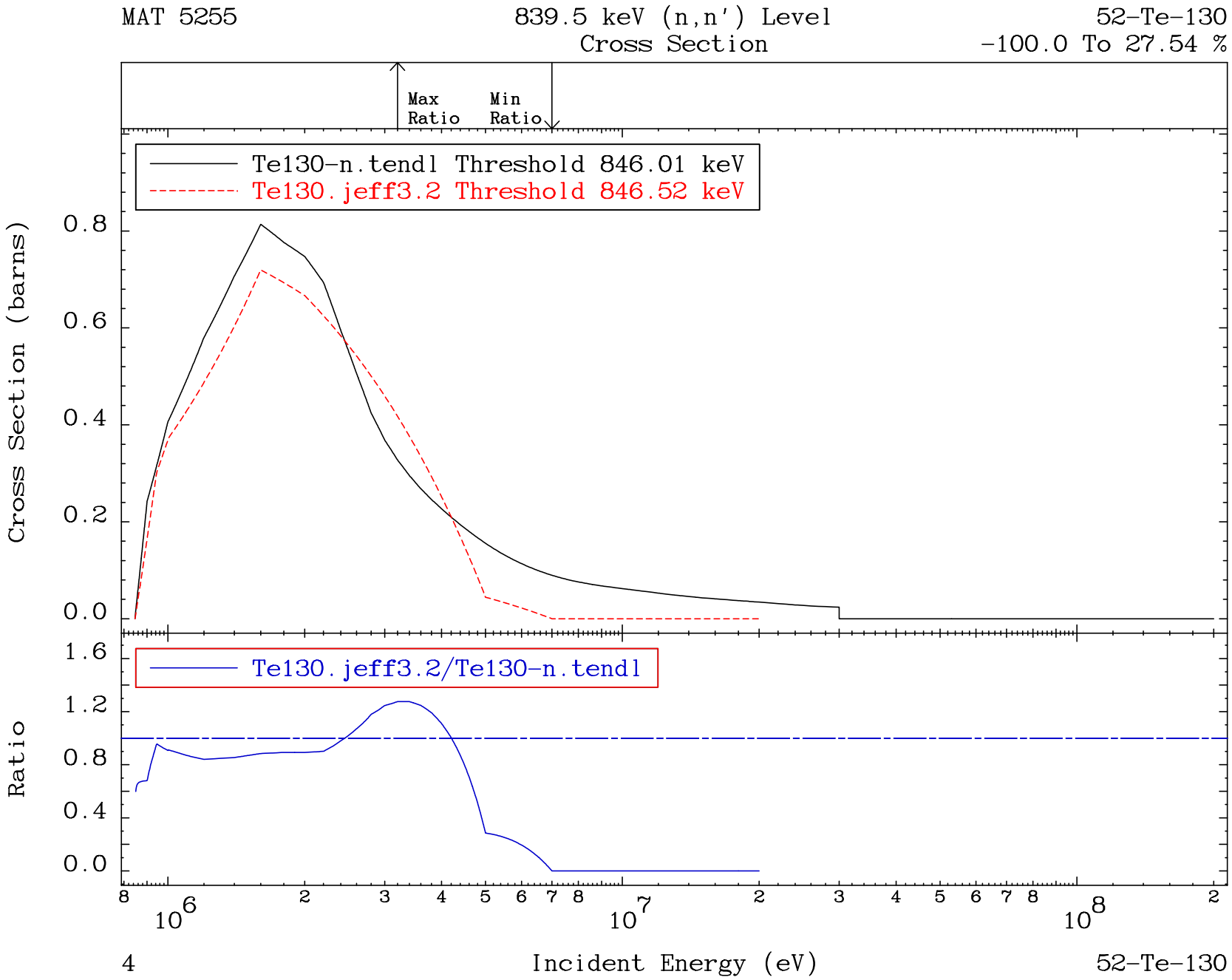
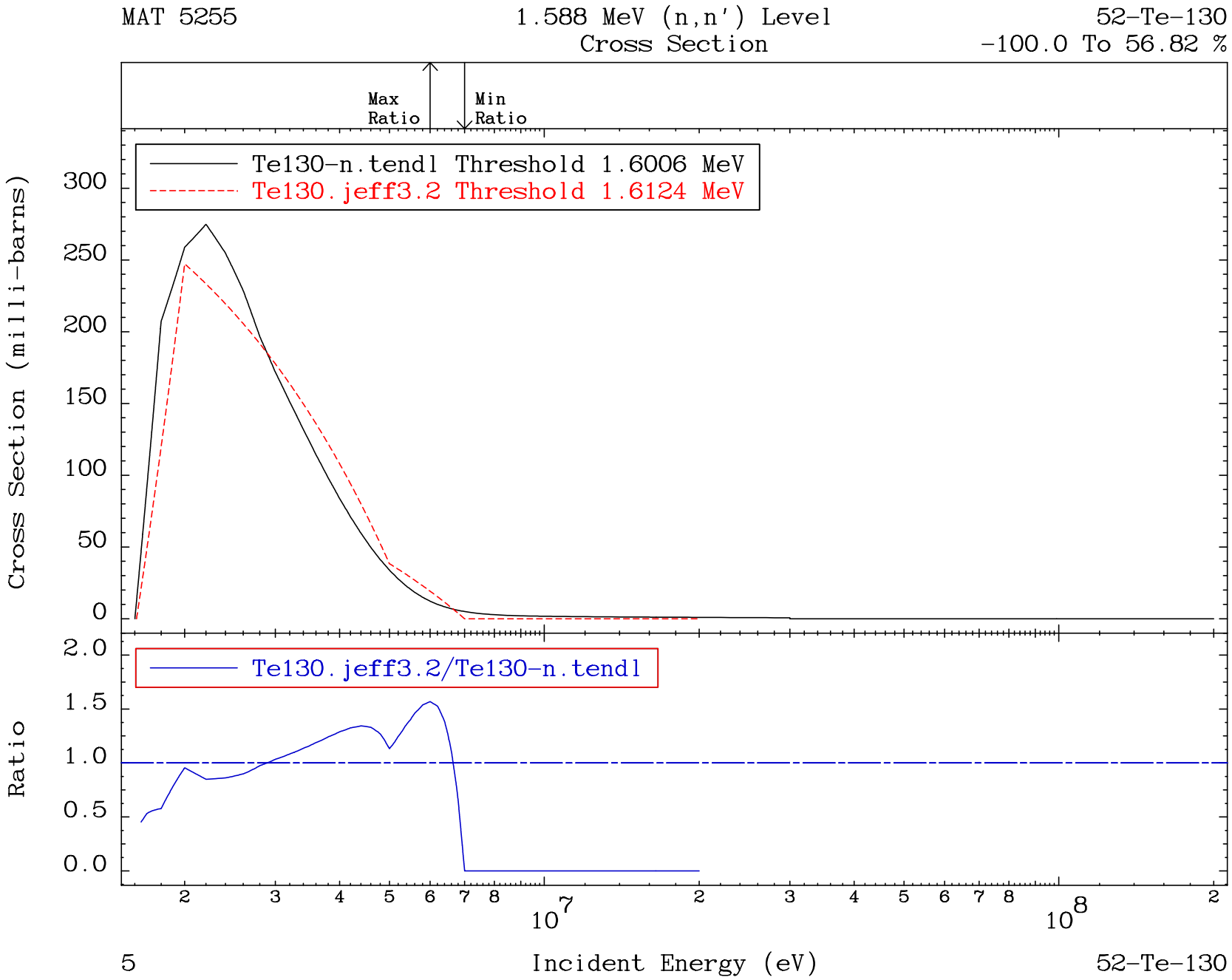
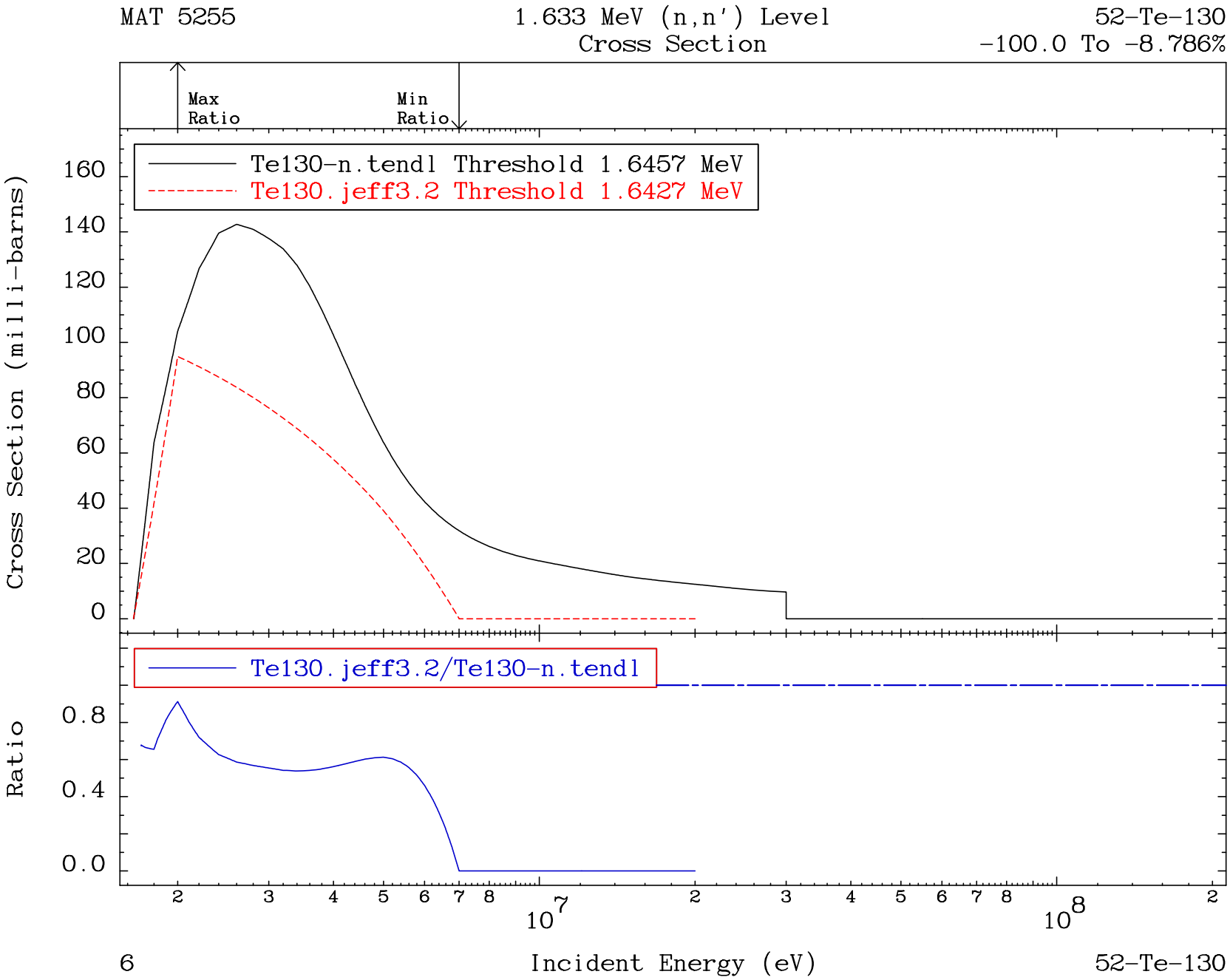

MAT 5255
Total
Cross Section
52-Te-130
-98.11 To 9999. %
Min
Ratio
Max
Ratio
Te130-n.tendl
Te130.jeff3.2
Cross Section (barns)
Te130.jeff3.2/Te130-n.tendl
Ratio
Incident Energy (eV)
1
52-Te-130

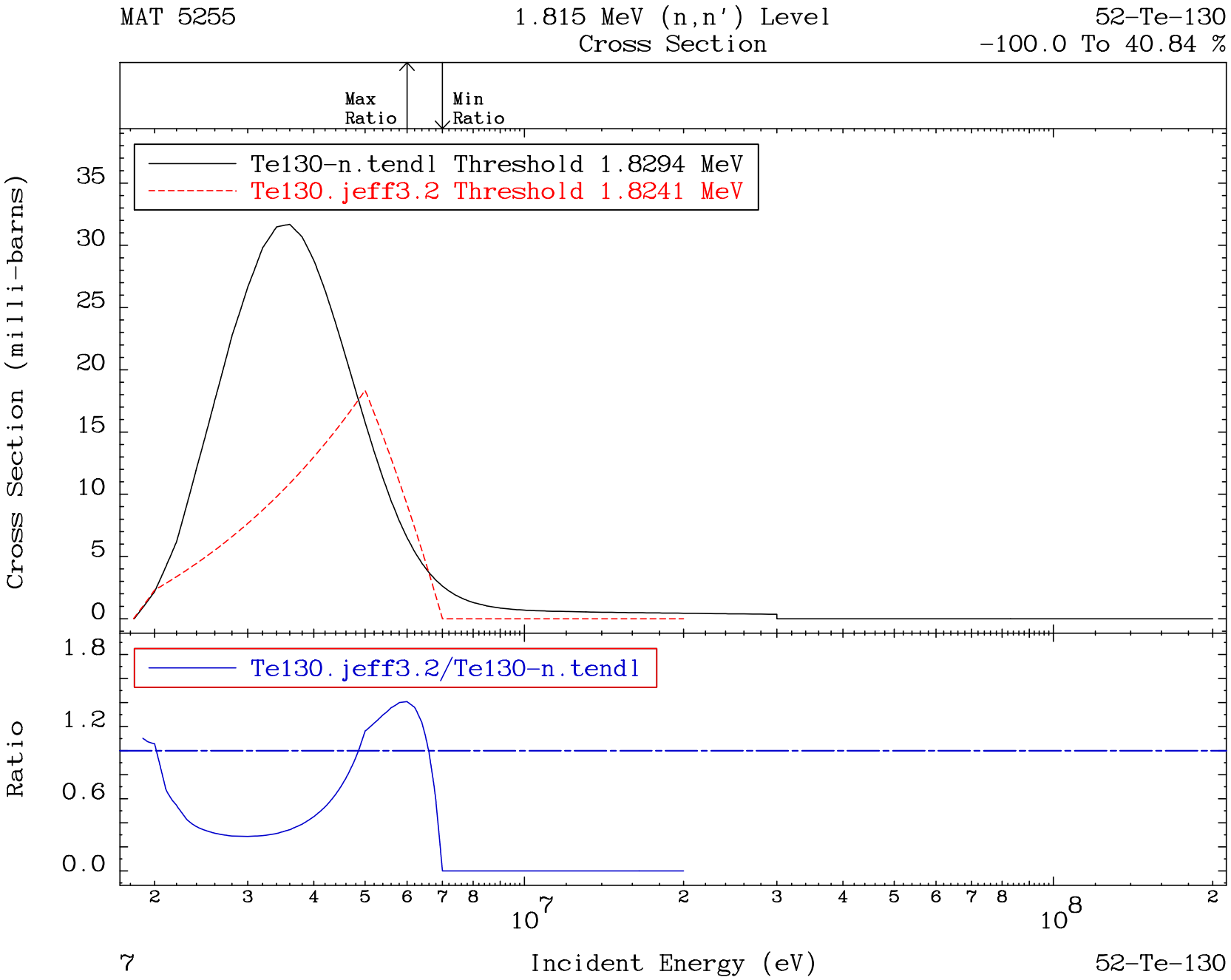

MAT 5255
Elastic
Cross Section
52-Te-130
-98.97 To 9999. %
Min
Ratio
Max
Ratio
Te130-n.tendl
Te130.jeff3.2
Cross Section (barns)
Te130.jeff3.2/Te130-n.tendl
Ratio
Incident Energy (eV)
2
52-Te-130

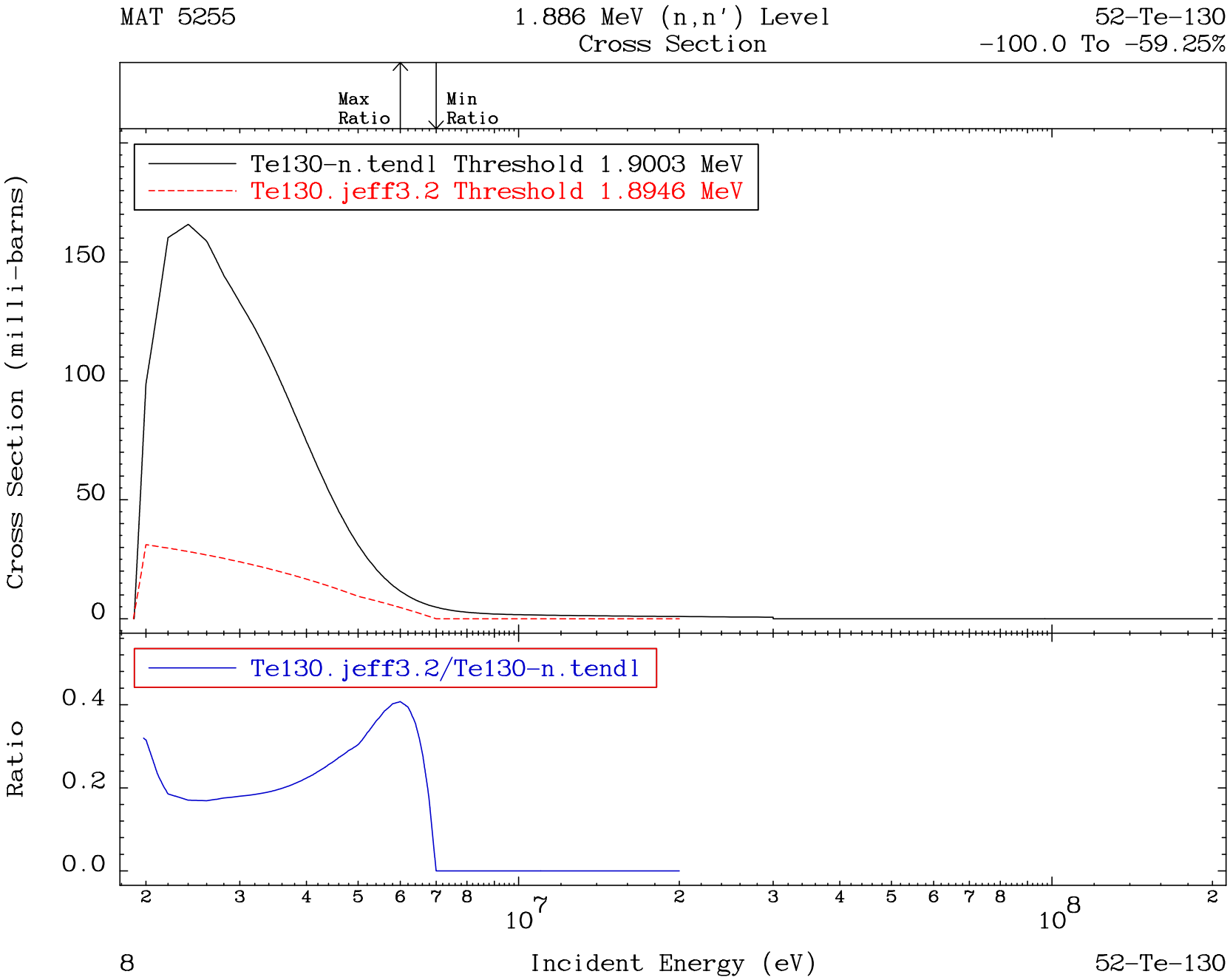

MAT 5255
Inelastic
Cross Section
52-Te-130
-40.13 To 571.3 %
Min
Ratio
Max
Ratio
Te130-n.tendl Threshold 846.01 keV
Te130.jeff3.2 Threshold 846.52 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
Te130.jeff3.2/Te130-n.tendl
Ratio
10^1
10^0
6
4
2
6
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
52-Te-130

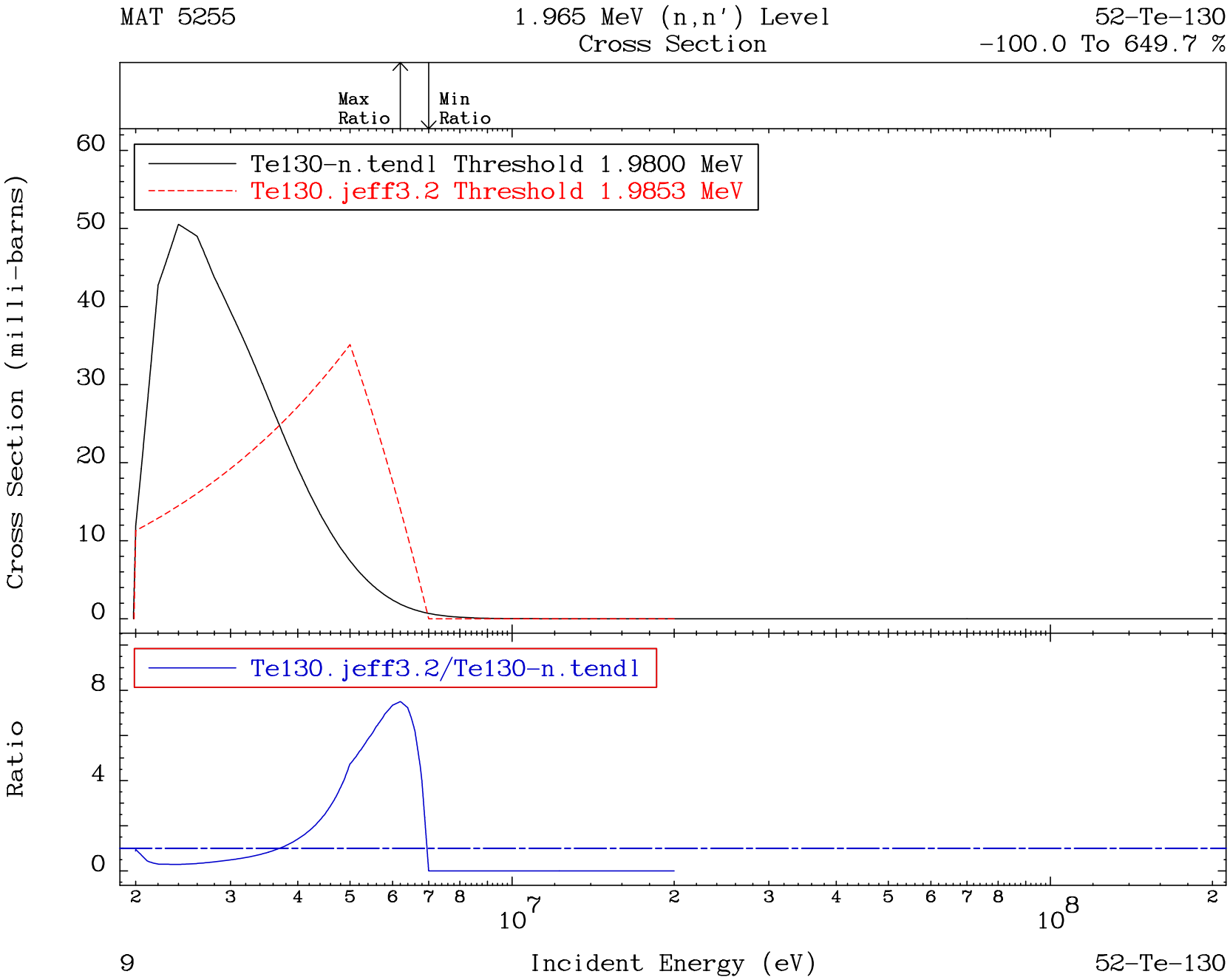

MAT 5255
839.5 keV (n,n') Level
Cross Section
52-Te-130
-100.0 To 27.54 %
Max Ratio
Min Ratio
Te130-n.tendl Threshold 846.01 keV
Te130.jeff3.2 Threshold 846.52 keV
Cross Section (barns)
0.0
0.2
0.4
0.6
0.8
Te130.jeff3.2/Te130-n.tendl
Ratio
0.0
0.4
0.8
1.2
1.6
8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2
10^6
10^7
10^8
4
Incident Energy (eV)
52-Te-130

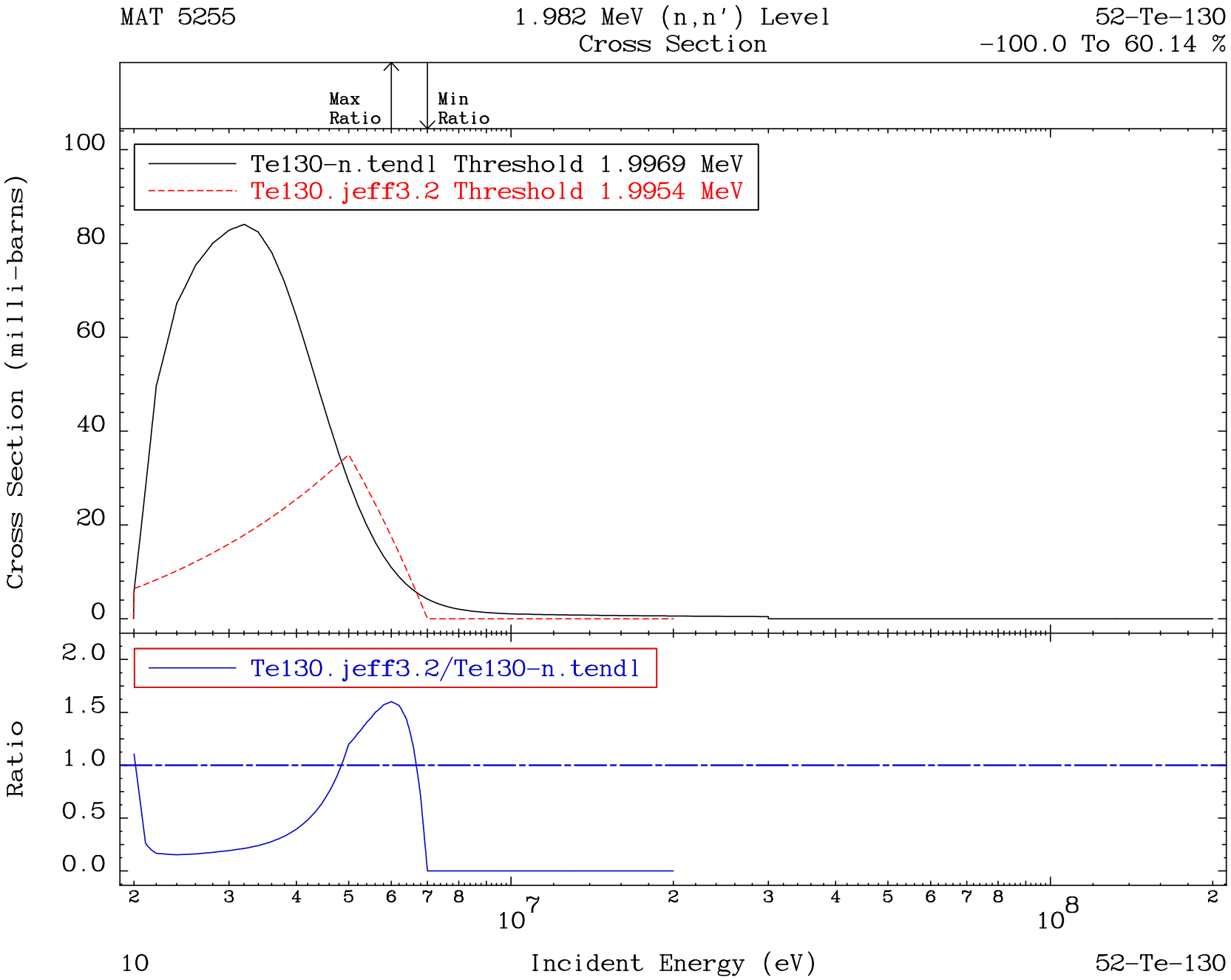

MAT 5255
1.588 MeV (n,n') Level
Cross Section
52-Te-130
-100.0 To 56.82 %
Max Ratio
Min Ratio
Te130-n.tendl Threshold 1.6006 MeV
Te130.jeff3.2 Threshold 1.6124 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
Te130.jeff3.2/Te130-n.tendl
Ratio
2.0
1.5
1.0
0.5
0.0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
5
Incident Energy (eV)
52-Te-130

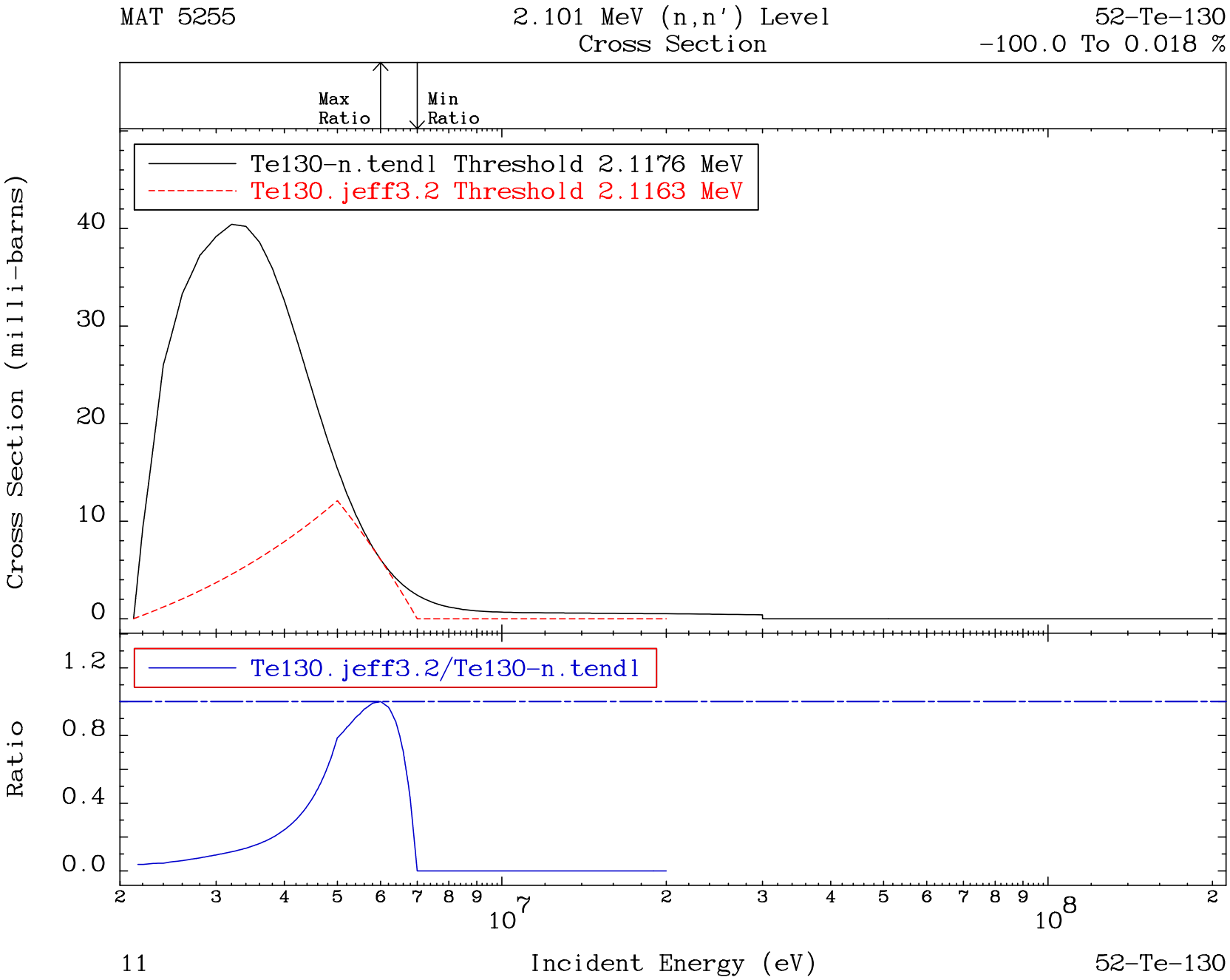

MAT 5255
1.633 MeV (n,n') Level
Cross Section
52-Te-130
-100.0 To -8.786%
Max Ratio
Min Ratio
Te130-n.tendl Threshold 1.6457 MeV
Te130.jeff3.2 Threshold 1.6427 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
Te130.jeff3.2/Te130-n.tendl
Ratio
0.8
0.4
0.0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
6
Incident Energy (eV)
52-Te-130

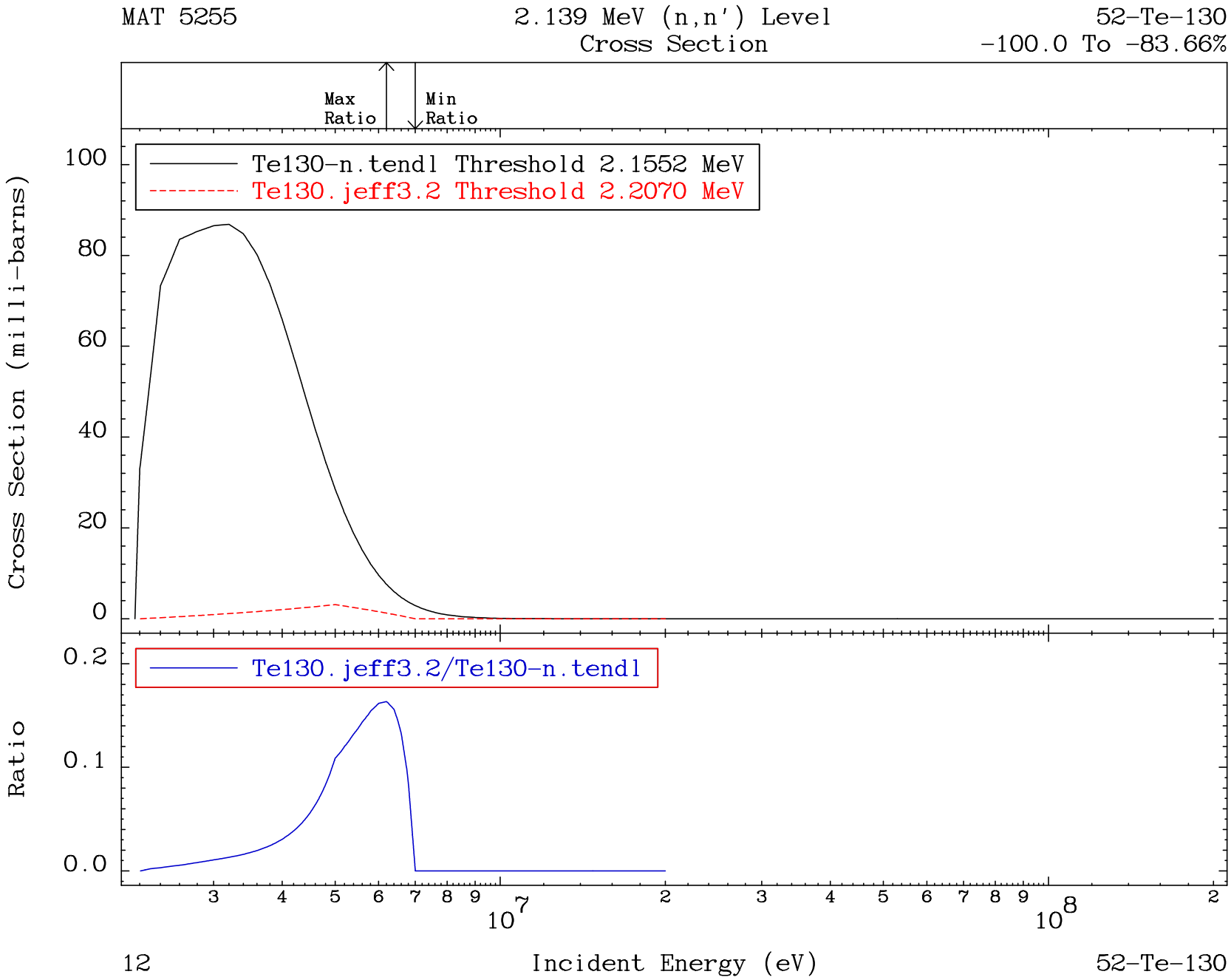

MAT 5255
1.815 MeV (n,n') Level
Cross Section
52-Te-130
-100.0 To 40.84 %
Max Ratio
Min Ratio
Te130-n.tendl Threshold 1.8294 MeV
Te130.jeff3.2 Threshold 1.8241 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
Te130.jeff3.2/Te130-n.tendl
Ratio
1.8
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
7
Incident Energy (eV)
52-Te-130

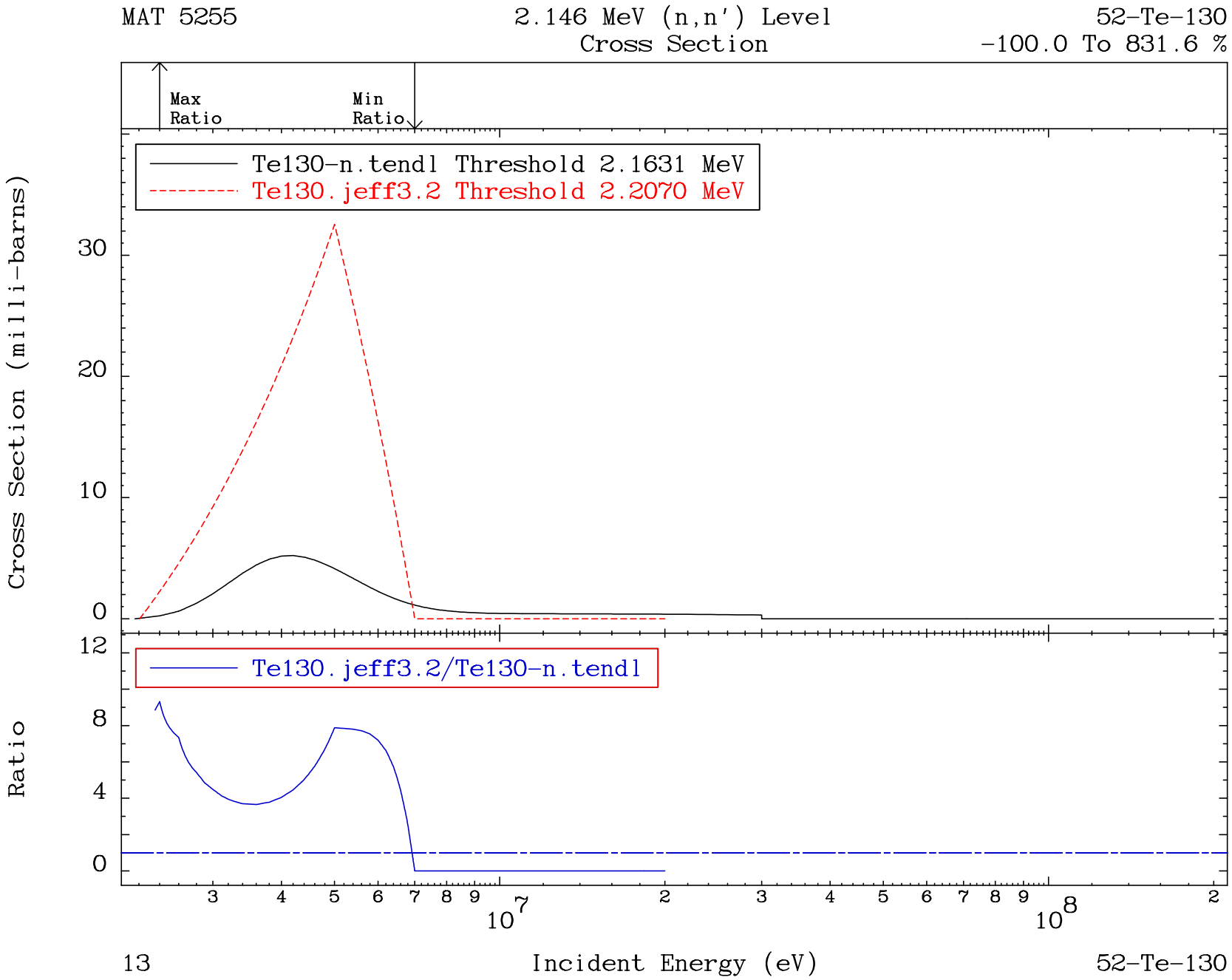

MAT 5255
1.886 MeV (n,n') Level
Cross Section
52-Te-130
-100.0 To -59.25%
Max Ratio
Min Ratio
Te130-n.tendl Threshold 1.9003 MeV
Te130.jeff3.2 Threshold 1.8946 MeV
Cross Section (milli-barns)
150
100
50
0
Te130.jeff3.2/Te130-n.tendl
Ratio
0.4
0.2
0.0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
8
52-Te-130

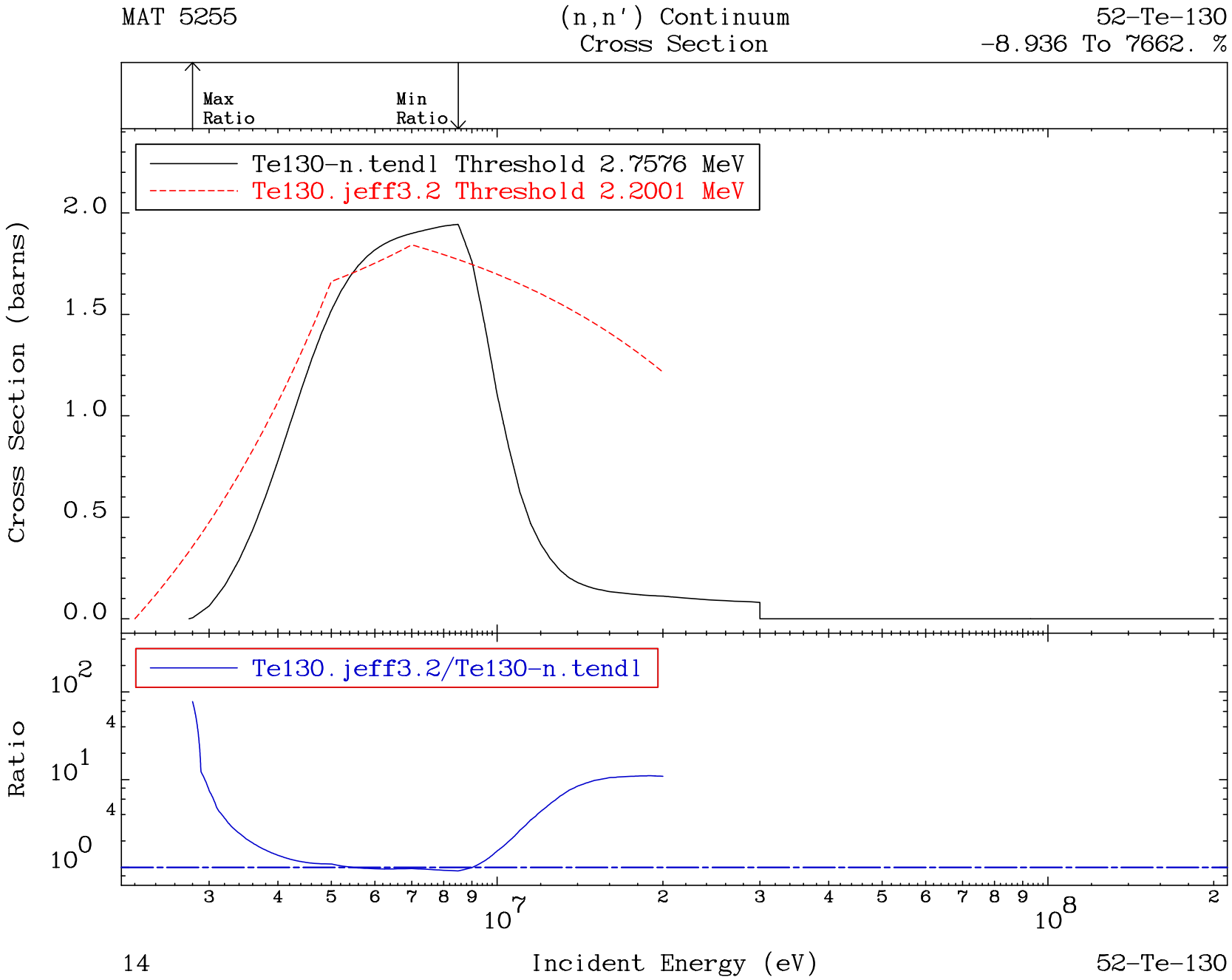

MAT 5255
1.965 MeV (n,n') Level
Cross Section
52-Te-130
-100.0 To 649.7 %
Max Ratio
Min Ratio
Te130-n.tendl Threshold 1.9800 MeV
Te130.jeff3.2 Threshold 1.9853 MeV
Cross Section (milli-barns)
Te130.jeff3.2/Te130-n.tendl
Ratio
Incident Energy (eV)
9
52-Te-130

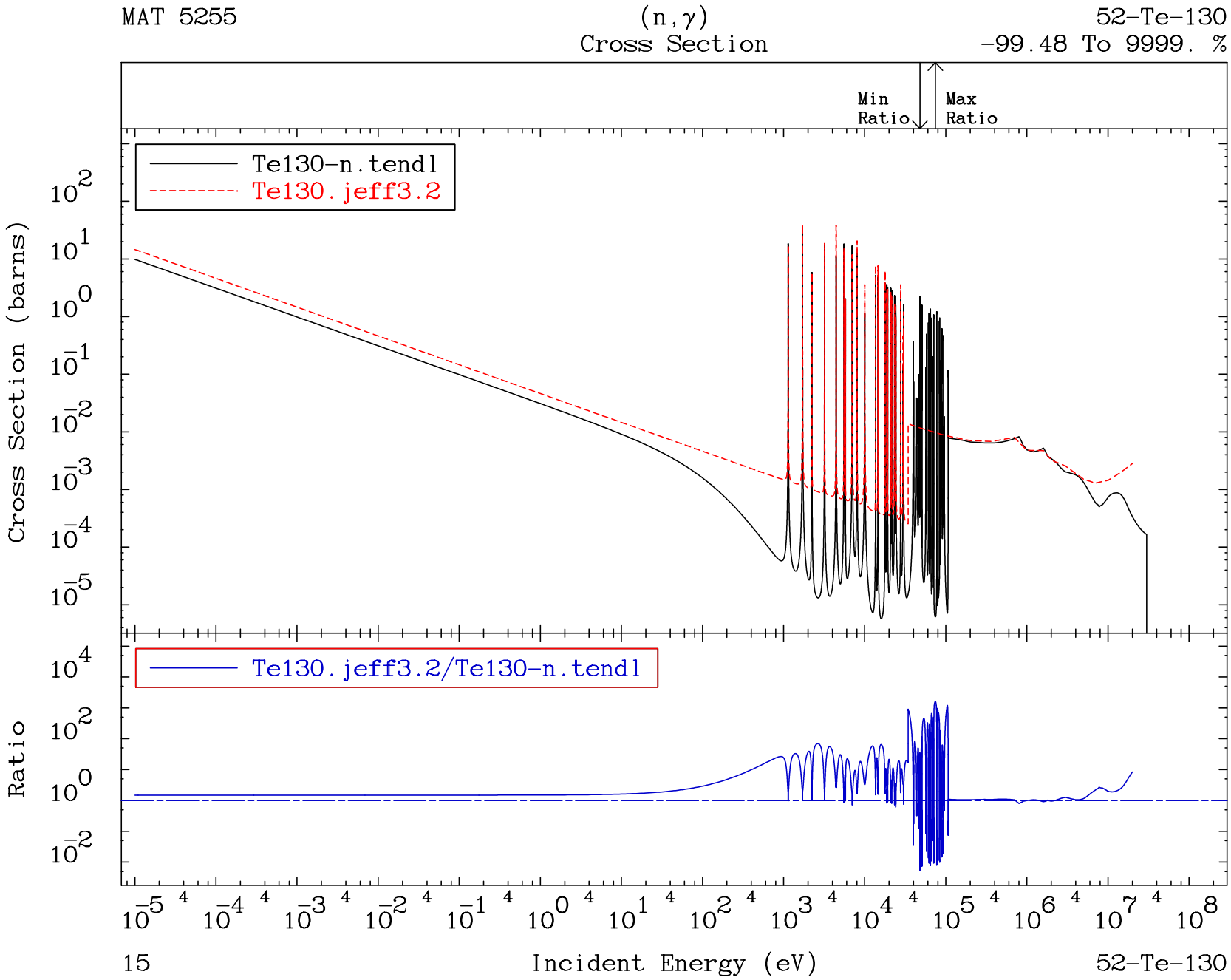

MAT 5255
1.982 MeV (n,n') Level
Cross Section
52-Te-130
-100.0 To 60.14 %
Max Ratio
Min Ratio
Te130-n.tendl Threshold 1.9969 MeV
Te130.jeff3.2 Threshold 1.9954 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
Te130.jeff3.2/Te130-n.tendl
Ratio
2.0
1.5
1.0
0.5
0.0
2
3
4
5
6
7
8
10^7
10^8
10
Incident Energy (eV)
52-Te-130

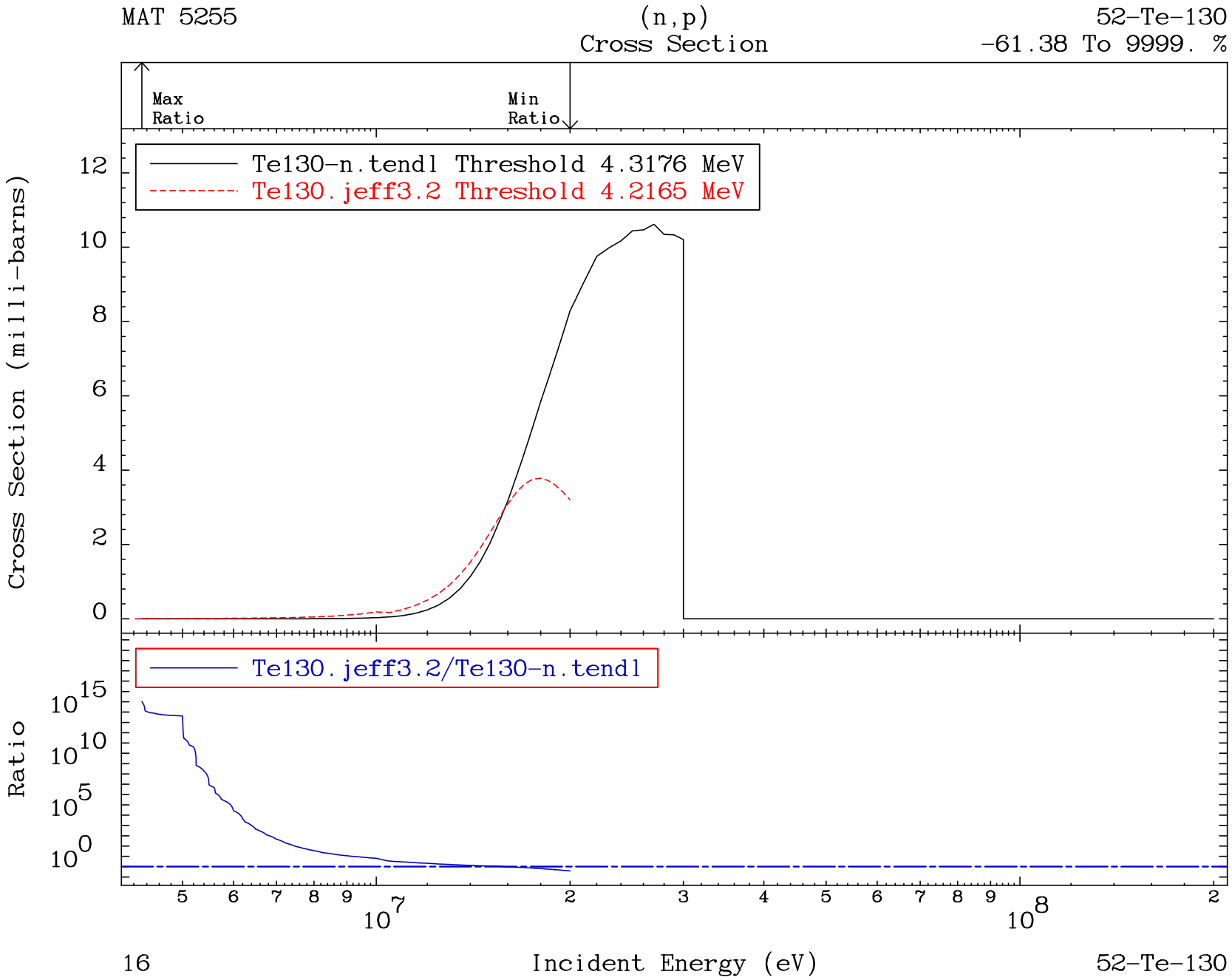

MAT 5255
2.101 MeV (n,n') Level
Cross Section
52-Te-130
-100.0 To 0.018 %
Max Ratio
Min Ratio
Te130-n.tendl Threshold 2.1176 MeV
Te130.jeff3.2 Threshold 2.1163 MeV
Cross Section (milli-barns)
40
30
20
10
0
Te130.jeff3.2/Te130-n.tendl
Ratio
1.2
0.8
0.4
0.0
2 3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
52-Te-130

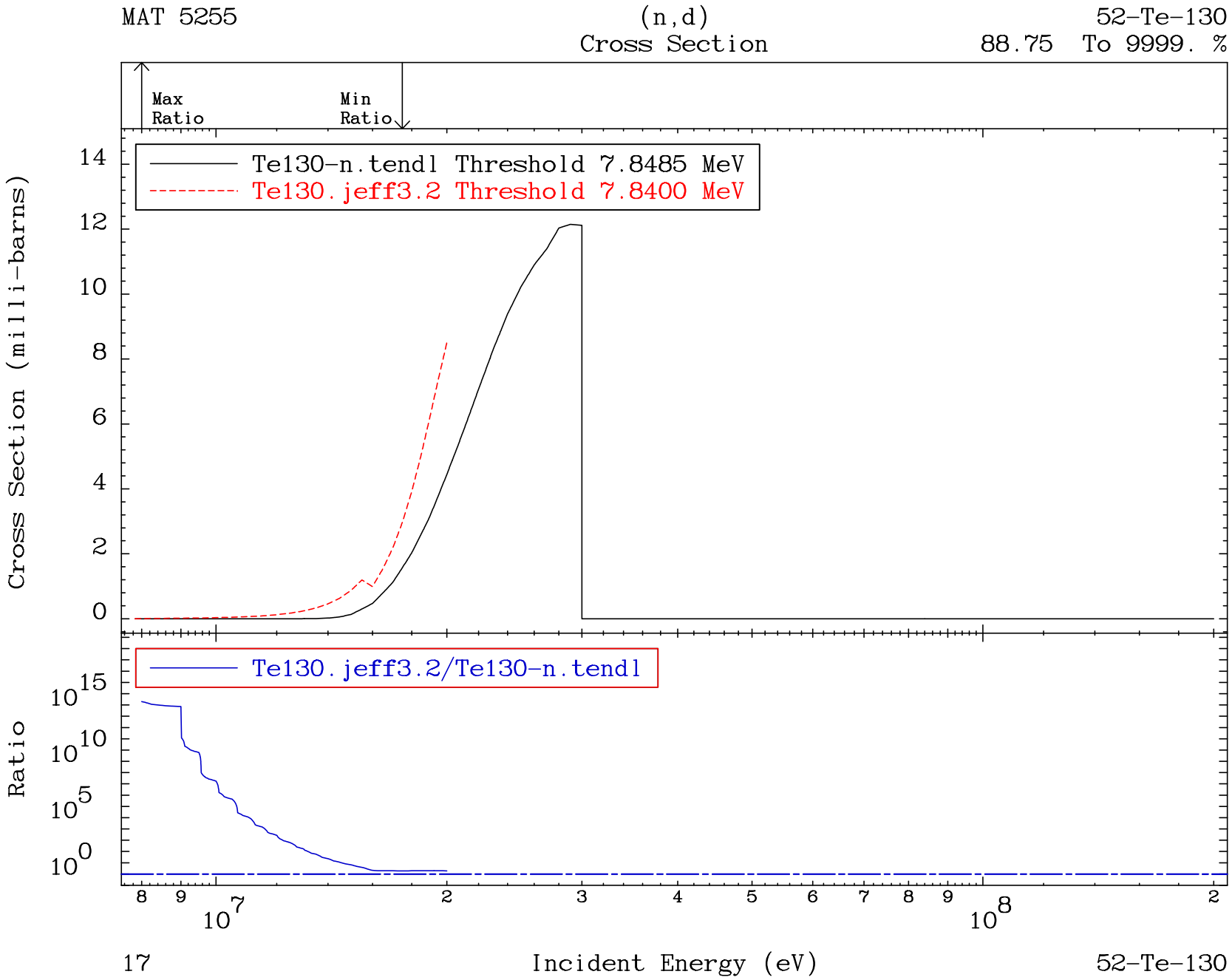

MAT 5255
2.139 MeV (n,n') Level
Cross Section
52-Te-130
-100.0 To -83.66%
Max Ratio
Min Ratio
Te130-n.tendl Threshold 2.1552 MeV
Te130.jeff3.2 Threshold 2.2070 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
Te130.jeff3.2/Te130-n.tendl
Ratio
0.2
0.1
0.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
12
Incident Energy (eV)
52-Te-130

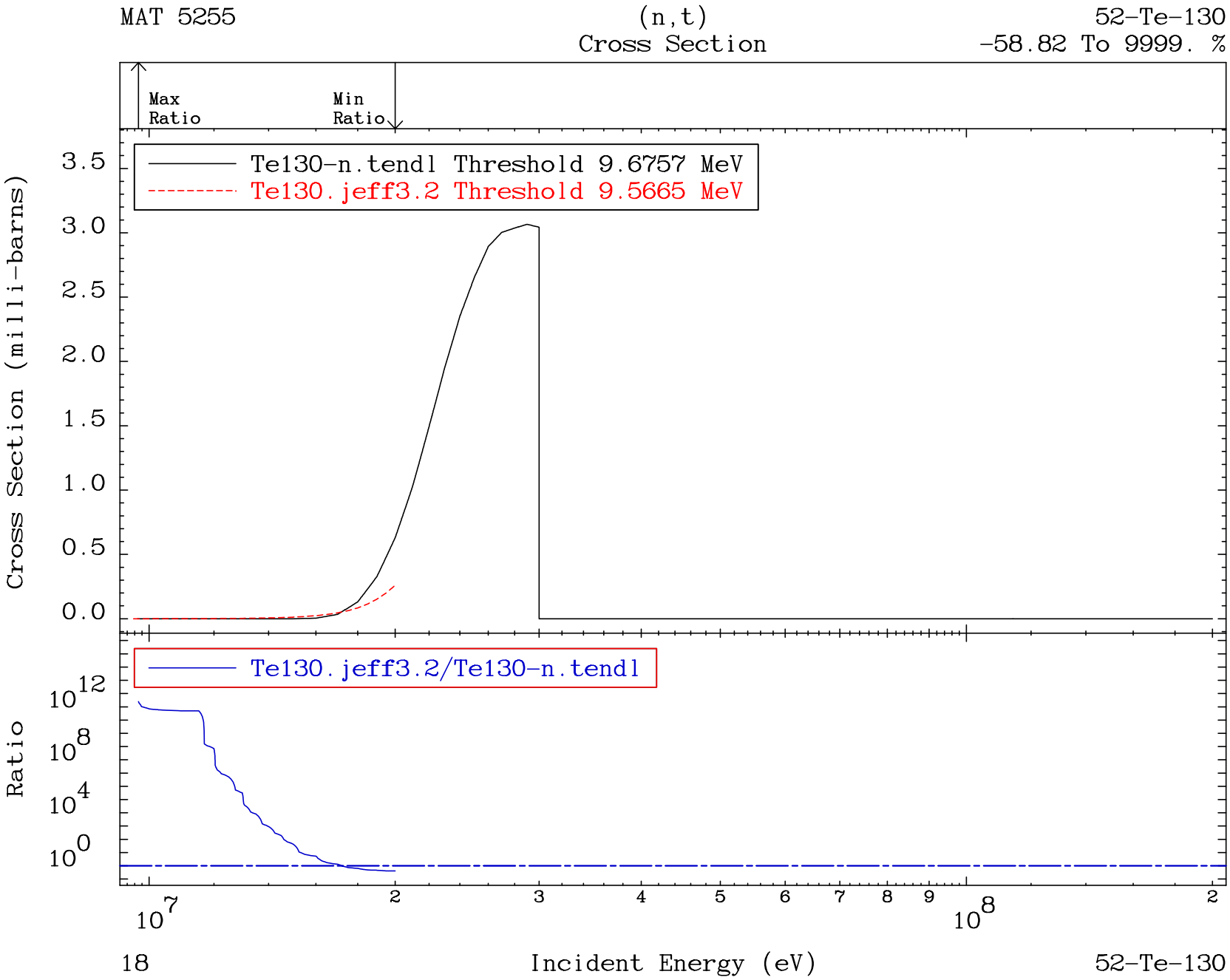

MAT 5255
2.146 MeV (n,n') Level
Cross Section
52-Te-130
-100.0 To 831.6 %
Max Ratio
Min Ratio
Te130-n.tendl Threshold 2.1631 MeV
Te130.jeff3.2 Threshold 2.2070 MeV
Cross Section (milli-barns)
30
20
10
0
Te130.jeff3.2/Te130-n.tendl
Ratio
12
8
4
0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
13
Incident Energy (eV)
52-Te-130

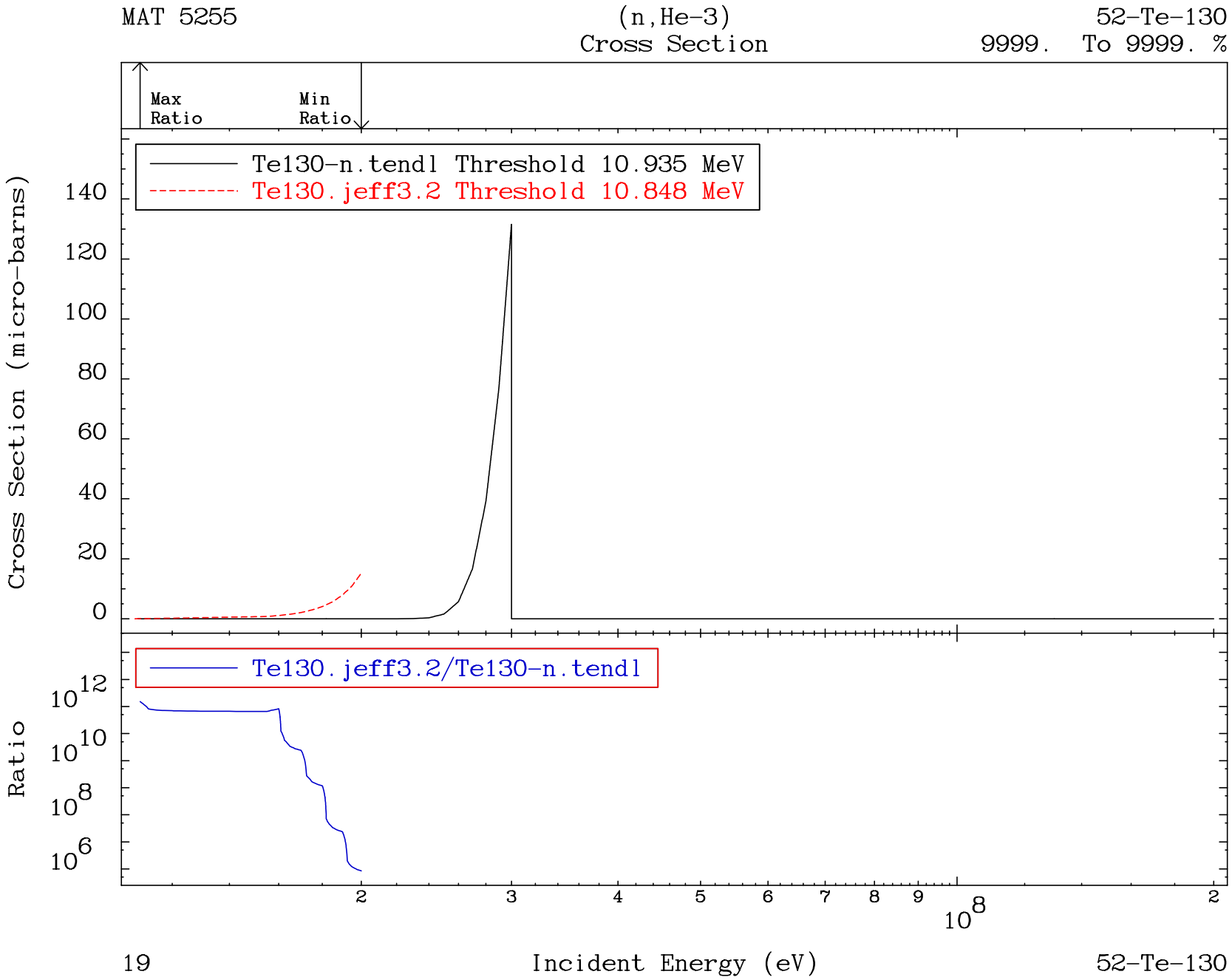

MAT 5255
(n,n') Continuum
Cross Section
52-Te-130
-8.936 To 7662. %
Max Ratio
Min Ratio
Te130-n.tendl Threshold 2.7576 MeV
Te130.jeff3.2 Threshold 2.2001 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
Te130.jeff3.2/Te130-n.tendl
Ratio
10^2
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
14
52-Te-130

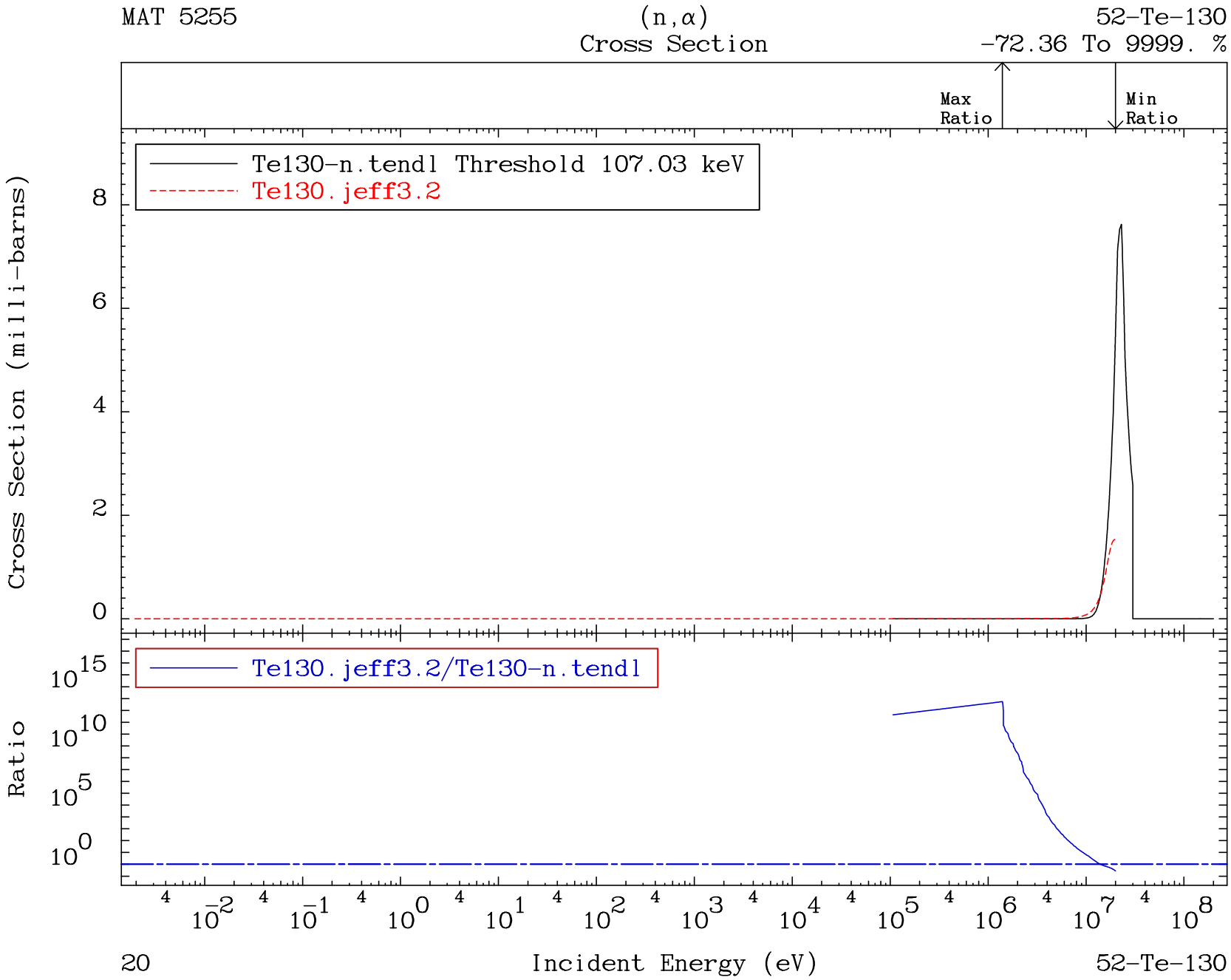

MAT 5255
(n,γ)
Cross Section
52-Te-130
-99.48 To 9999. %
Min Ratio
Max Ratio
Te130-n.tendl
Te130.jeff3.2
Cross Section (barns)
Te130.jeff3.2/Te130-n.tendl
Ratio
Incident Energy (eV)
15
52-Te-130

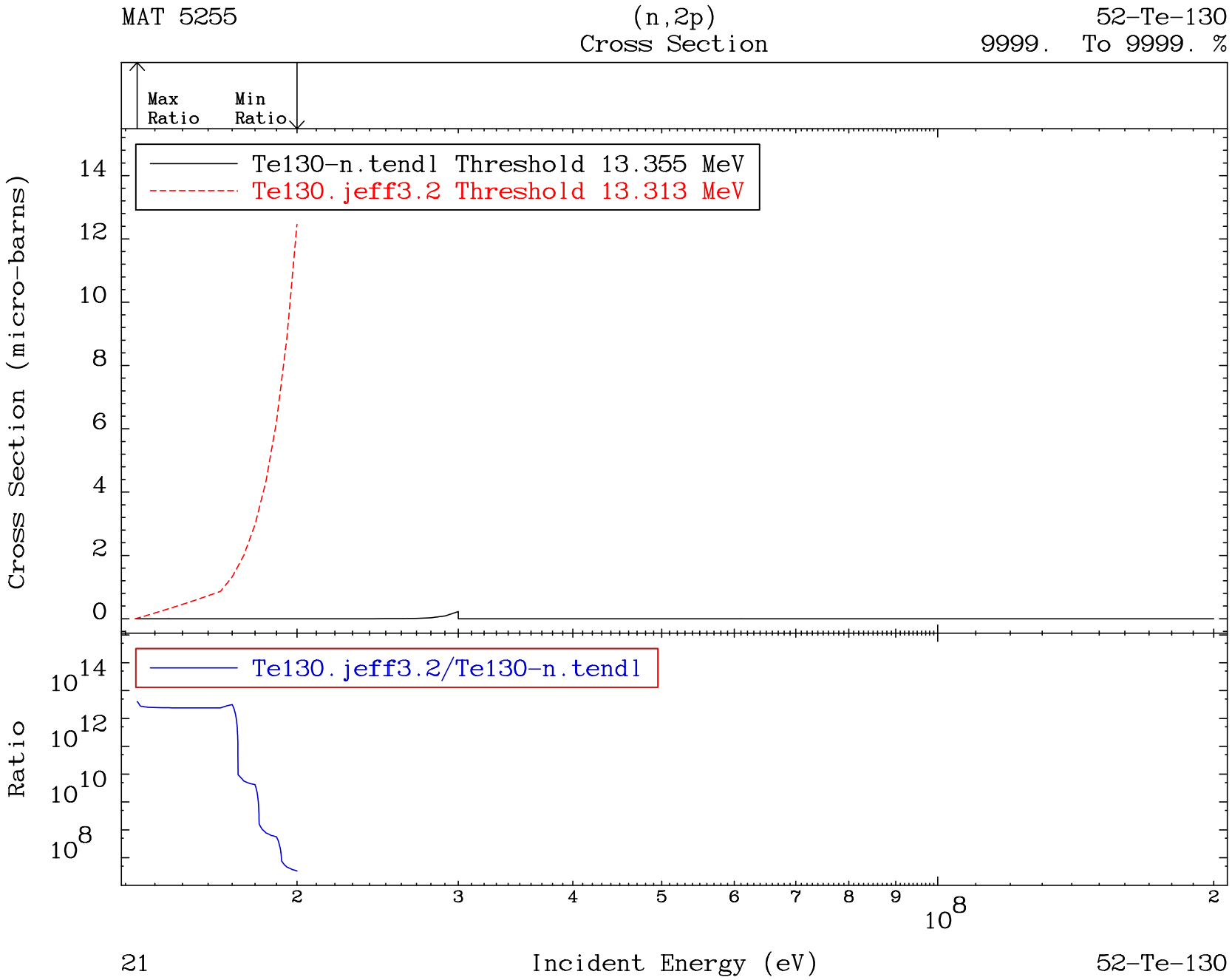

MAT 5255
(n,p)
Cross Section
52-Te-130
-61.38 To 9999. %
Max Ratio
Min Ratio
Te130-n.tendl Threshold 4.3176 MeV
Te130.jeff3.2 Threshold 4.2165 MeV
Cross Section (milli-barns)
Te130.jeff3.2/Te130-n.tendl
Ratio
Incident Energy (eV)
16
52-Te-130

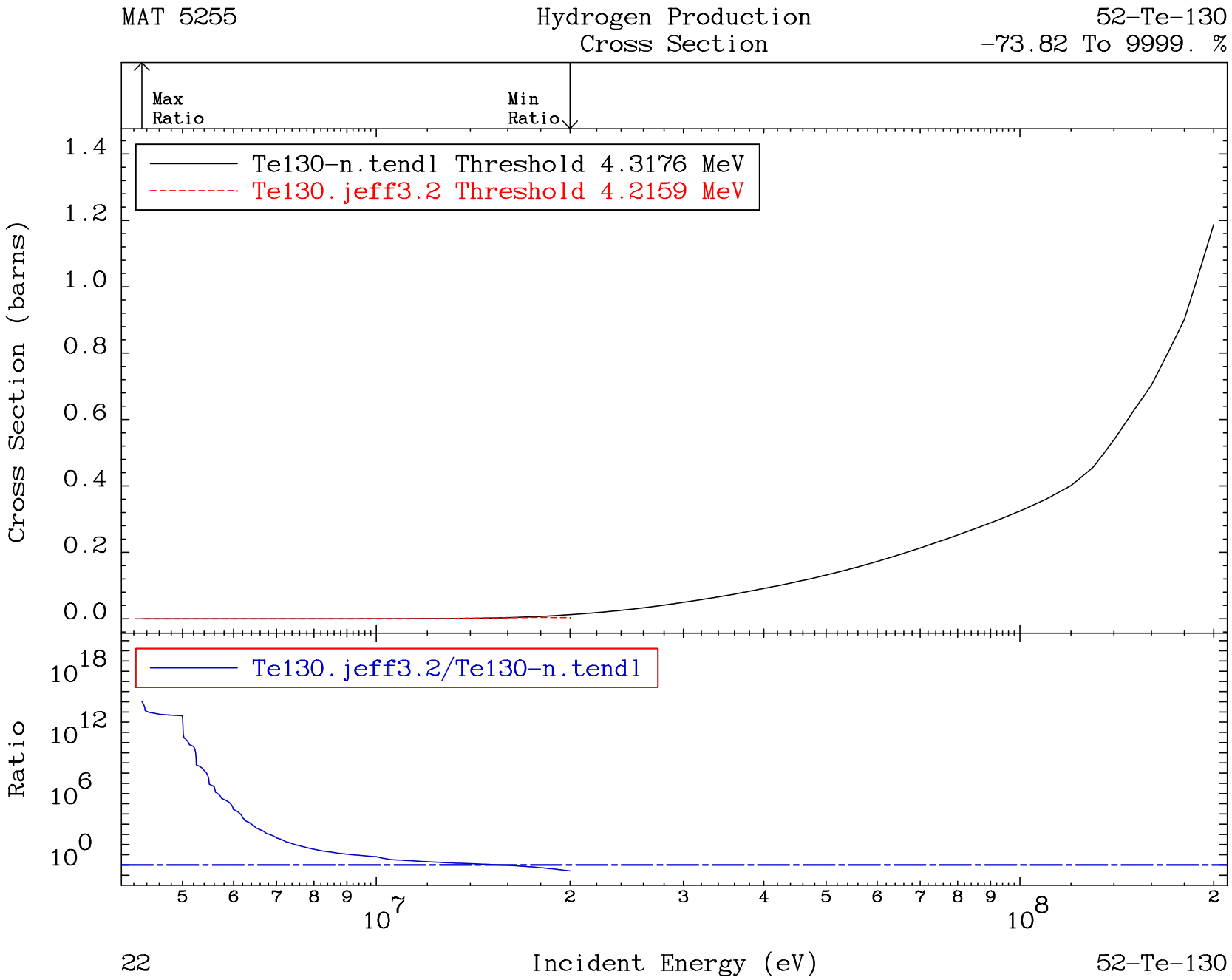

MAT 5255
(n,d)
Cross Section
52-Te-130
88.75 To 9999. %
Max Ratio
Min Ratio
Te130-n.tendl Threshold 7.8485 MeV
Te130.jeff3.2 Threshold 7.8400 MeV
Cross Section (milli-barns)
Te130.jeff3.2/Te130-n.tendl
Ratio
Incident Energy (eV)
17
52-Te-130

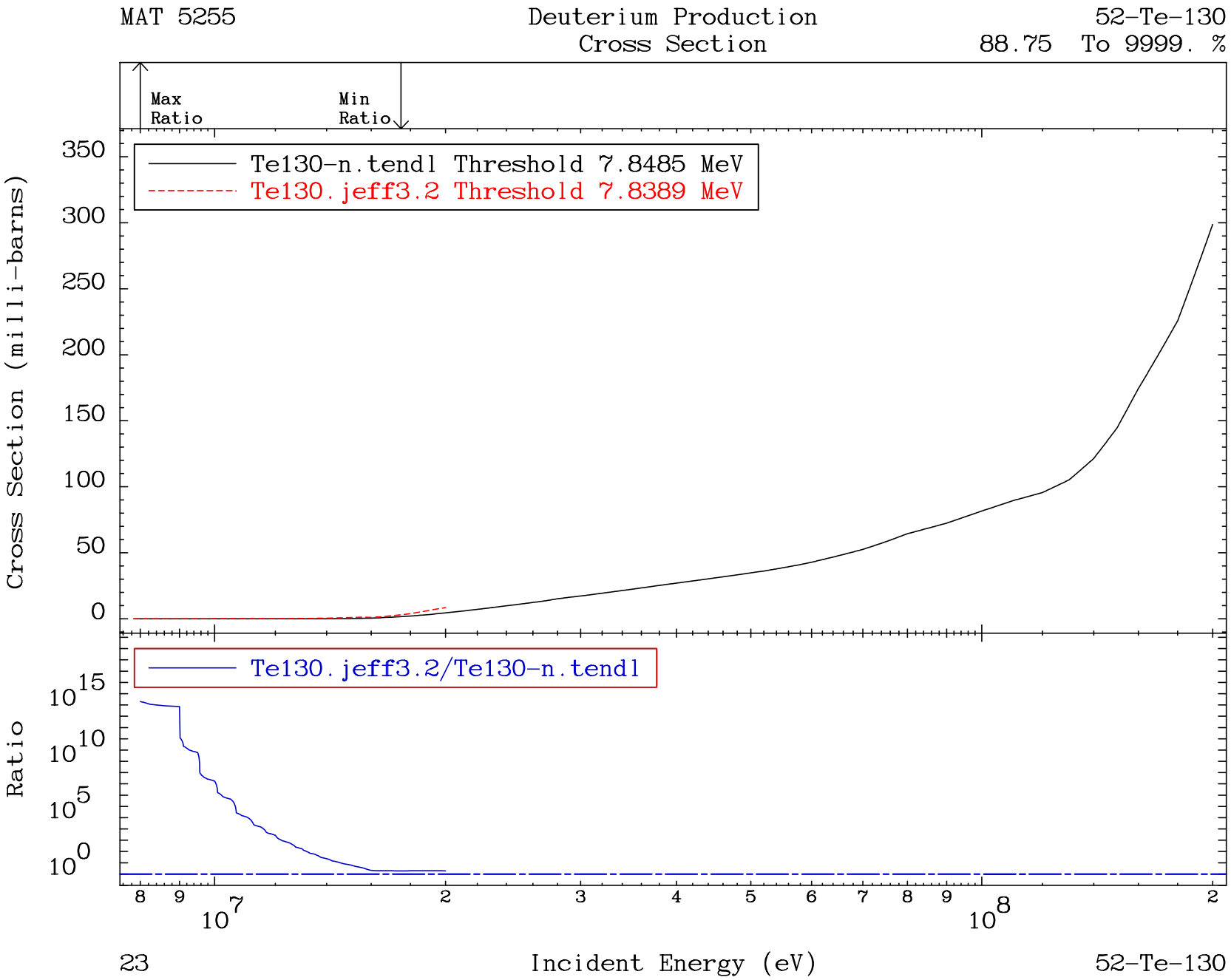

MAT 5255
(n,t)
Cross Section
52-Te-130
-58.82 To 9999. %
Max Ratio
Min Ratio
Te130-n.tendl Threshold 9.6757 MeV
Te130.jeff3.2 Threshold 9.5665 MeV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Te130.jeff3.2/Te130-n.tendl
Ratio
10^12
10^8
10^4
10^0
10^7
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
52-Te-130

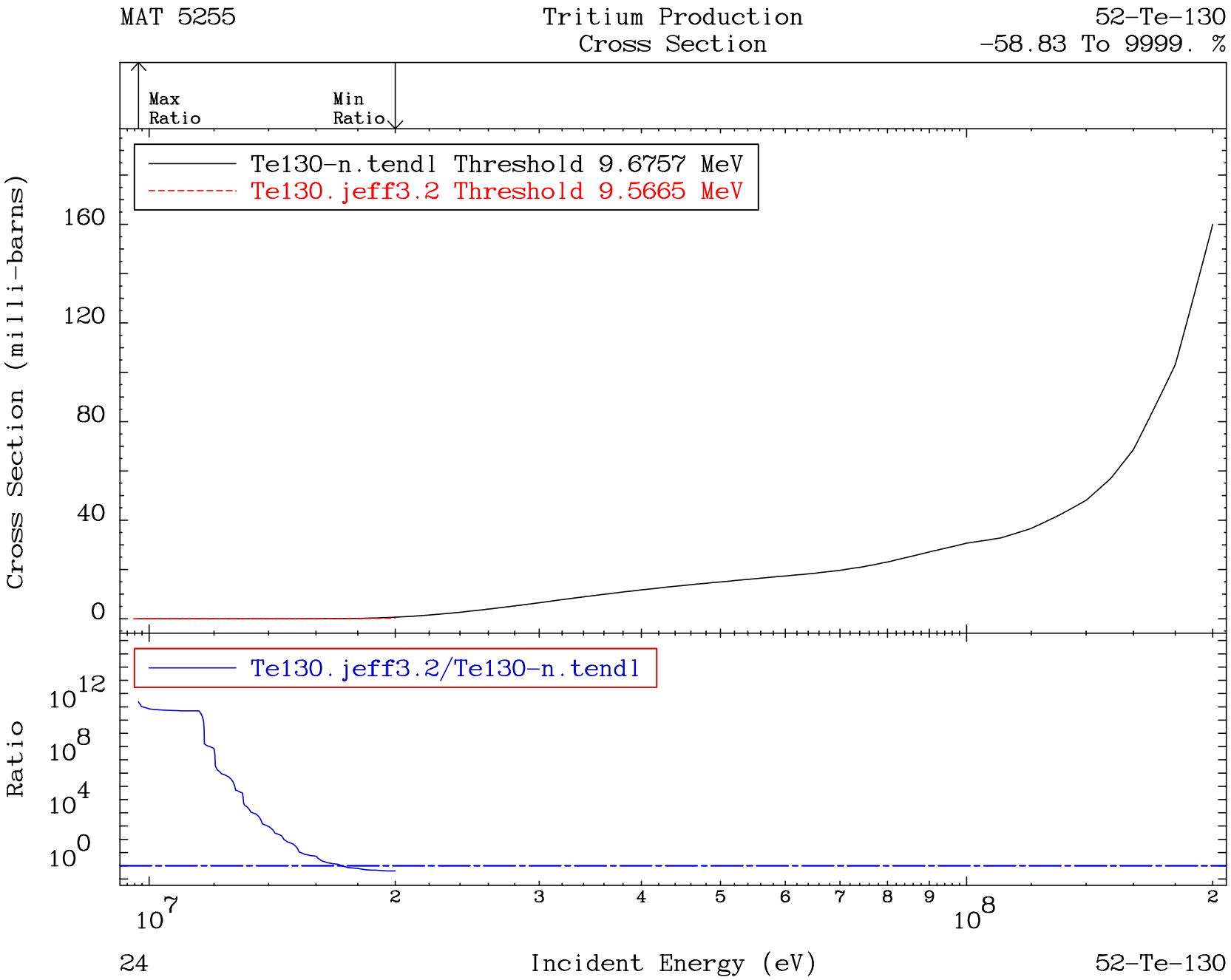

MAT 5255
(n,He-3)
Cross Section
52-Te-130
9999. To 9999. %
Max Ratio
Min Ratio
Te130-n.tendl Threshold 10.935 MeV
Te130.jeff3.2 Threshold 10.848 MeV
Cross Section (micro-barns)
140
120
100
80
60
40
20
0
Te130.jeff3.2/Te130-n.tendl
Ratio
10^12
10^10
10^8
10^6
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
52-Te-130

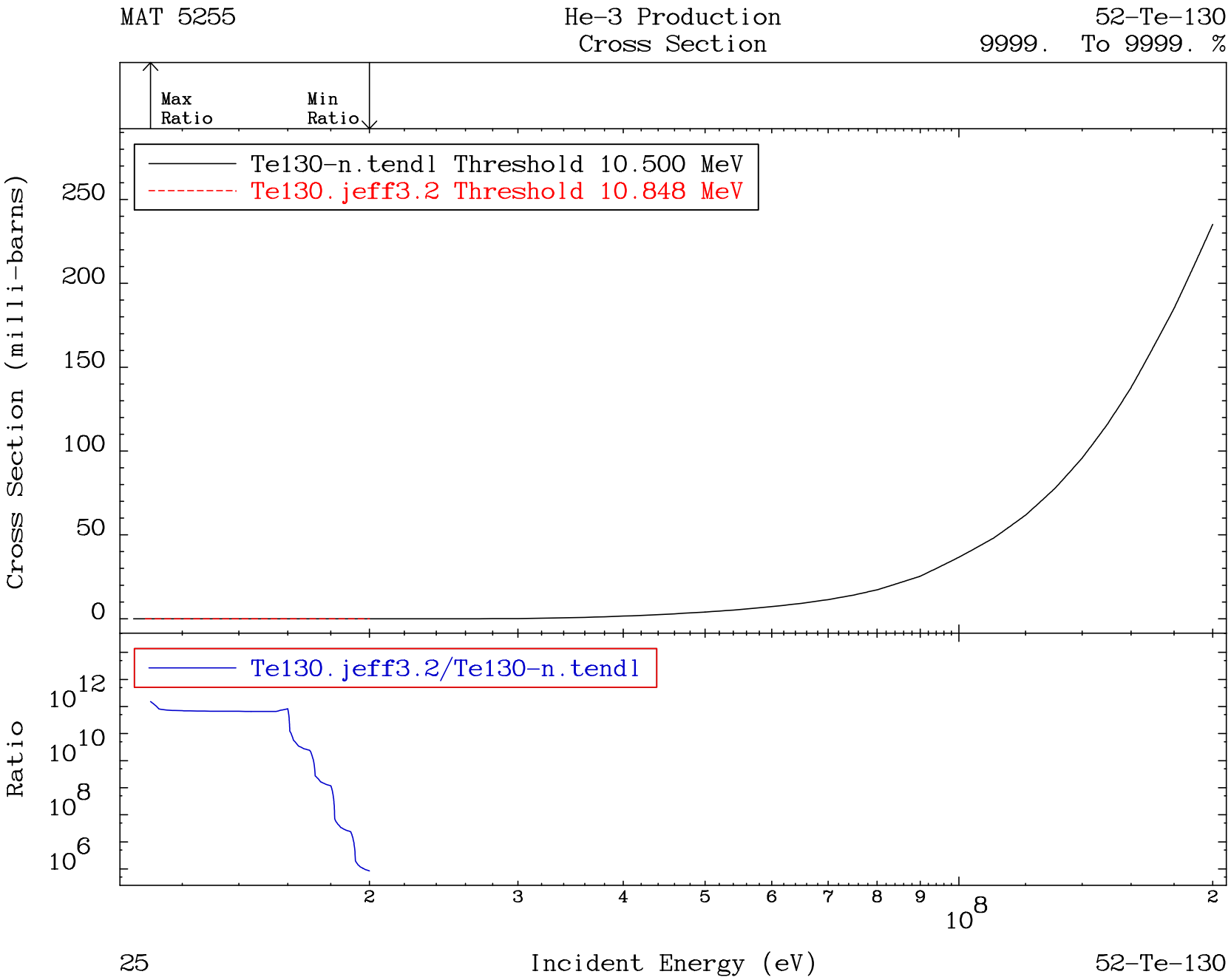

MAT 5255
(n,α)
Cross Section
52-Te-130
-72.36 To 9999. %
Max Ratio
Min Ratio
Te130-n.tendl Threshold 107.03 keV
Te130.jeff3.2
Cross Section (milli-barns)
Te130.jeff3.2/Te130-n.tendl
Ratio
Incident Energy (eV)
20
52-Te-130

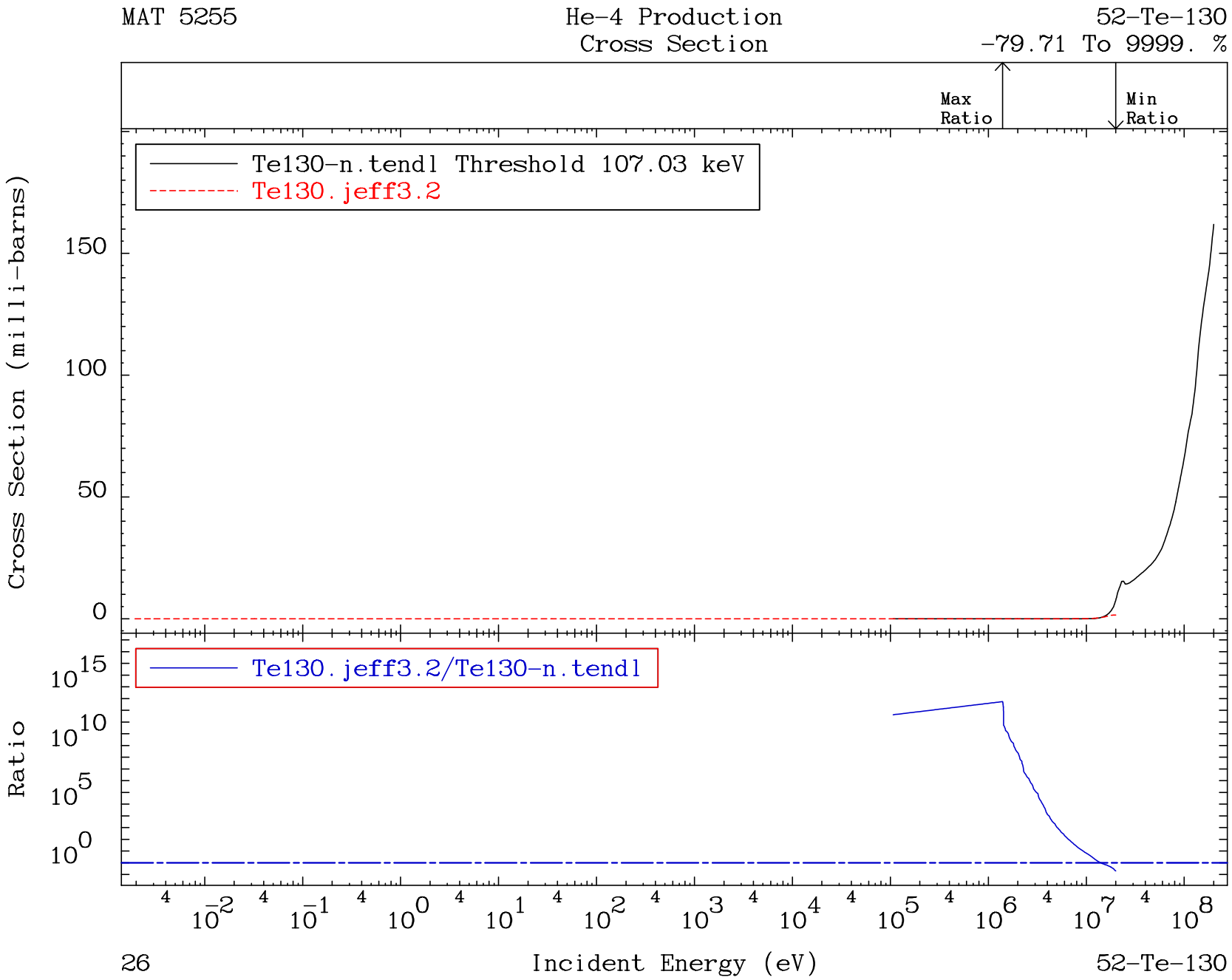

MAT 5255
(n,2p)
Cross Section
52-Te-130
9999. To 9999. %
Max Ratio
Min Ratio
Te130-n.tendl Threshold 13.355 MeV
Te130.jeff3.2 Threshold 13.313 MeV
Cross Section (micro-barns)
0
2
4
6
8
10
12
14
Te130.jeff3.2/Te130-n.tendl
Ratio
10^{8}
10^{10}
10^{12}
10^{14}
2
3
4
5
6
7
8
9
10^{8}
2
21
Incident Energy (eV)
52-Te-130

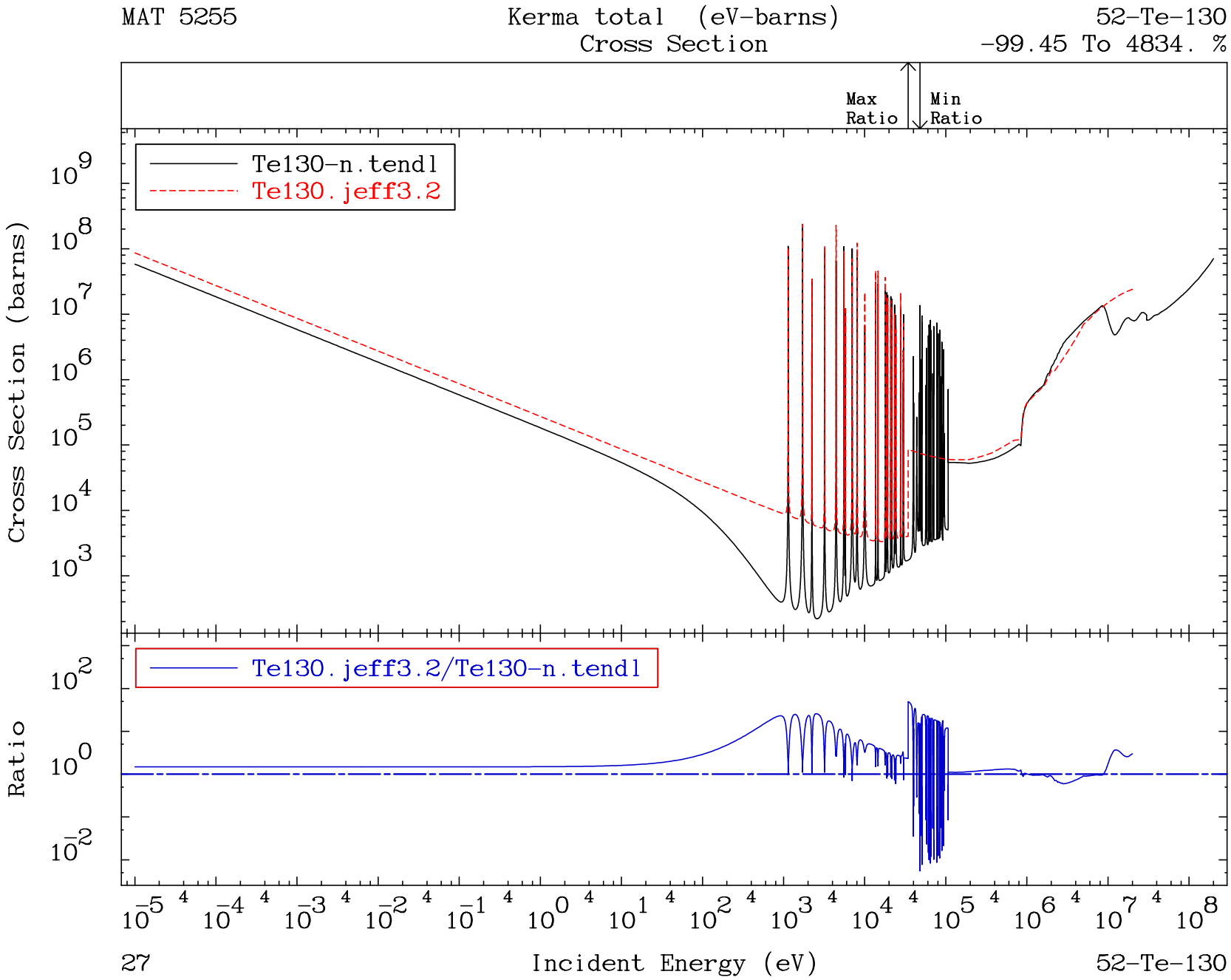

MAT 5255
Hydrogen Production
Cross Section
52-Te-130
-73.82 To 9999. %
Max Ratio
Min Ratio
Te130-n.tendl Threshold 4.3176 MeV
Te130.jeff3.2 Threshold 4.2159 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Te130.jeff3.2/Te130-n.tendl
Ratio
10^18
10^12
10^6
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
52-Te-130

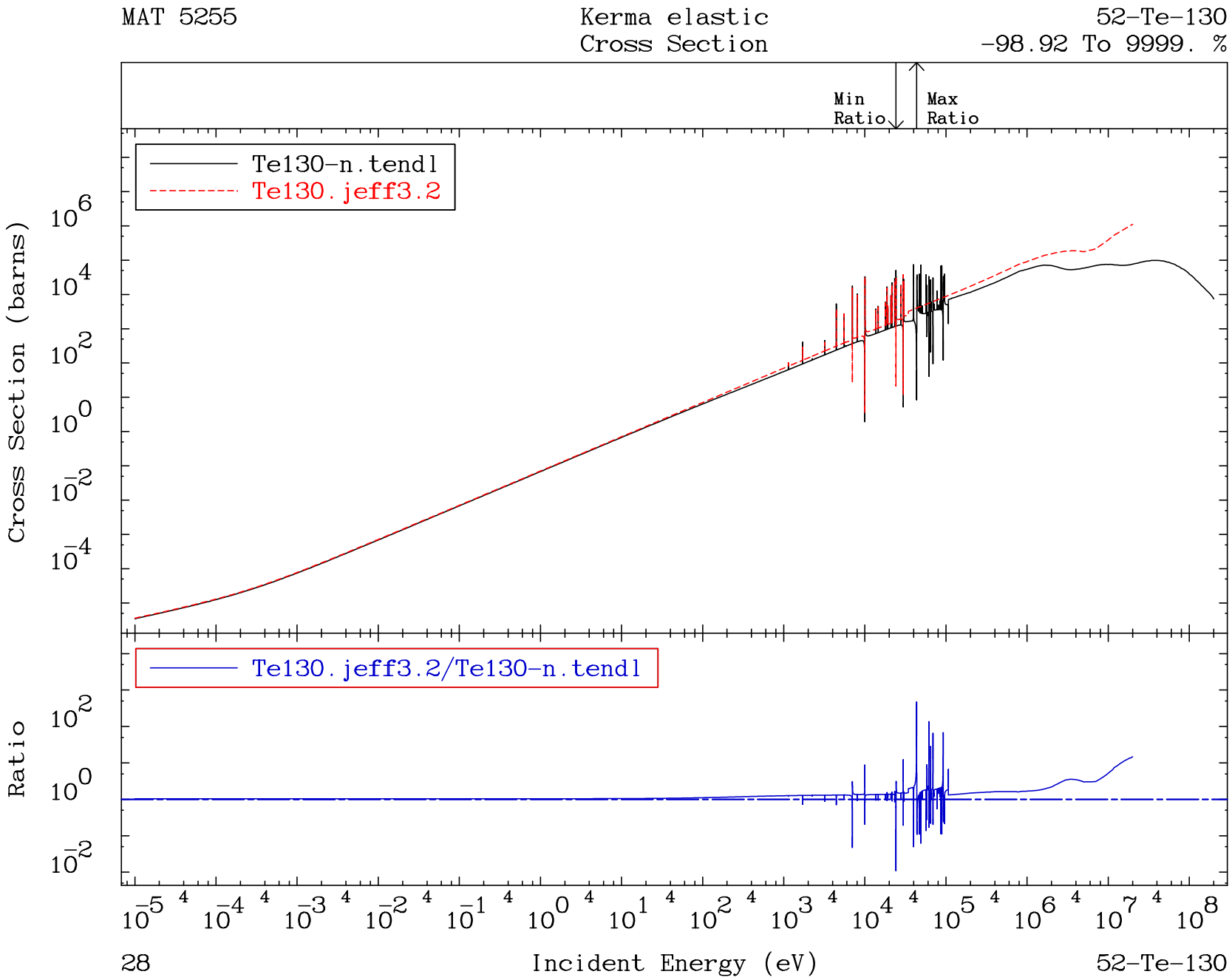

MAT 5255
Deuterium Production
Cross Section
52-Te-130
88.75 To 9999. %
Max Ratio
Min Ratio
Te130-n.tendl Threshold 7.8485 MeV
Te130.jeff3.2 Threshold 7.8389 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
Te130.jeff3.2/Te130-n.tendl
Ratio
10^15
10^10
10^5
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
52-Te-130

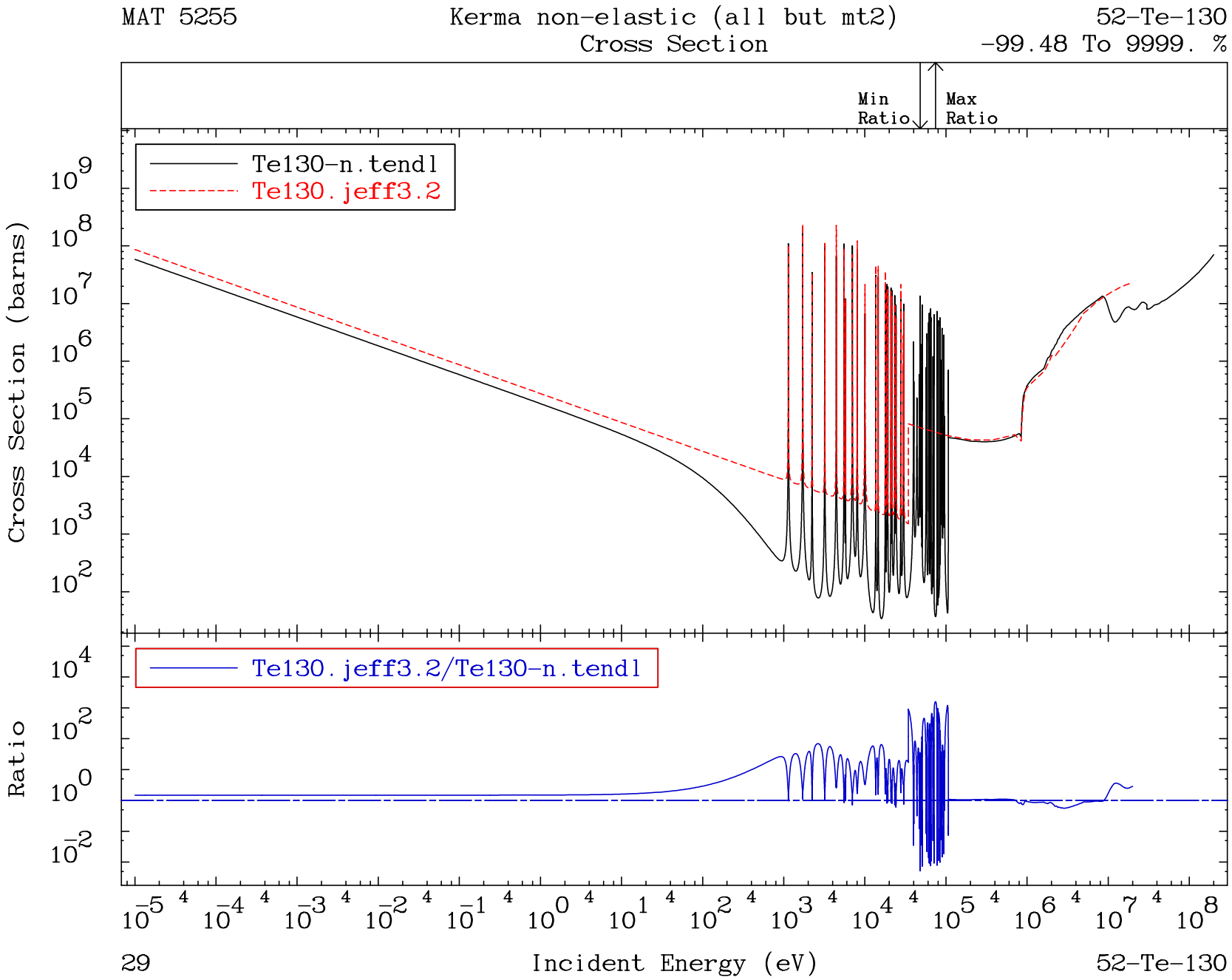

MAT 5255
Tritium Production
Cross Section
52-Te-130
-58.83 To 9999. %
Max Ratio
Min Ratio
Te130-n.tendl Threshold 9.6757 MeV
Te130.jeff3.2 Threshold 9.5665 MeV
Cross Section (milli-barns)
160
120
80
40
0
Te130.jeff3.2/Te130-n.tendl
Ratio
10^12
10^8
10^4
10^0
10^7
2
3
4
5
6
7
8
9
10^8
2
24
Incident Energy (eV)
52-Te-130

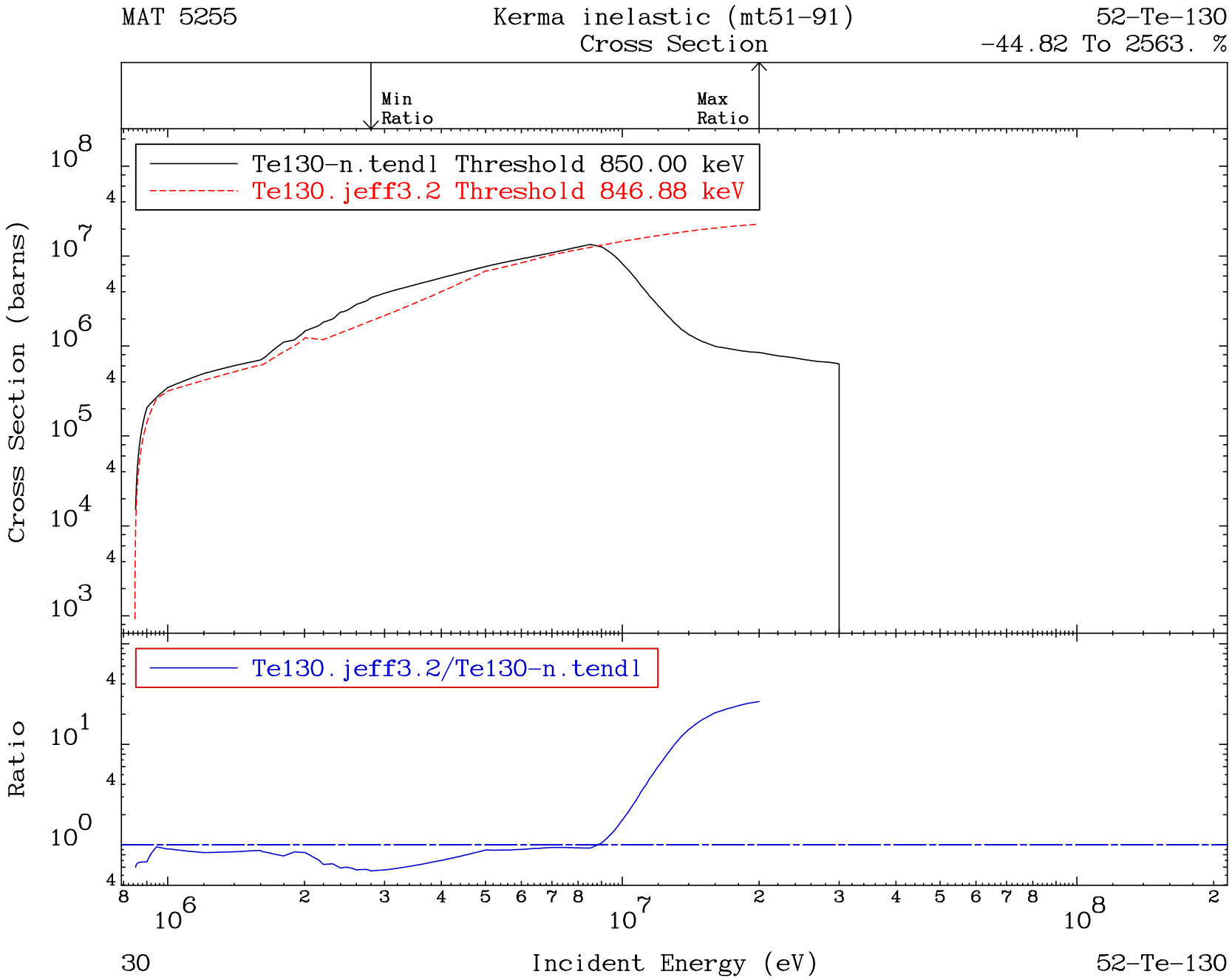

MAT 5255
He-3 Production
Cross Section
52-Te-130
9999. To 9999. %
Max Ratio
Min Ratio
Te130-n.tendl Threshold 10.500 MeV
Te130.jeff3.2 Threshold 10.848 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
Te130.jeff3.2/Te130-n.tendl
Ratio
10^{12}
10^{10}
10^{8}
10^{6}
2
3
4
5
6
7
8
9
10^{8}
2
25
Incident Energy (eV)
52-Te-130

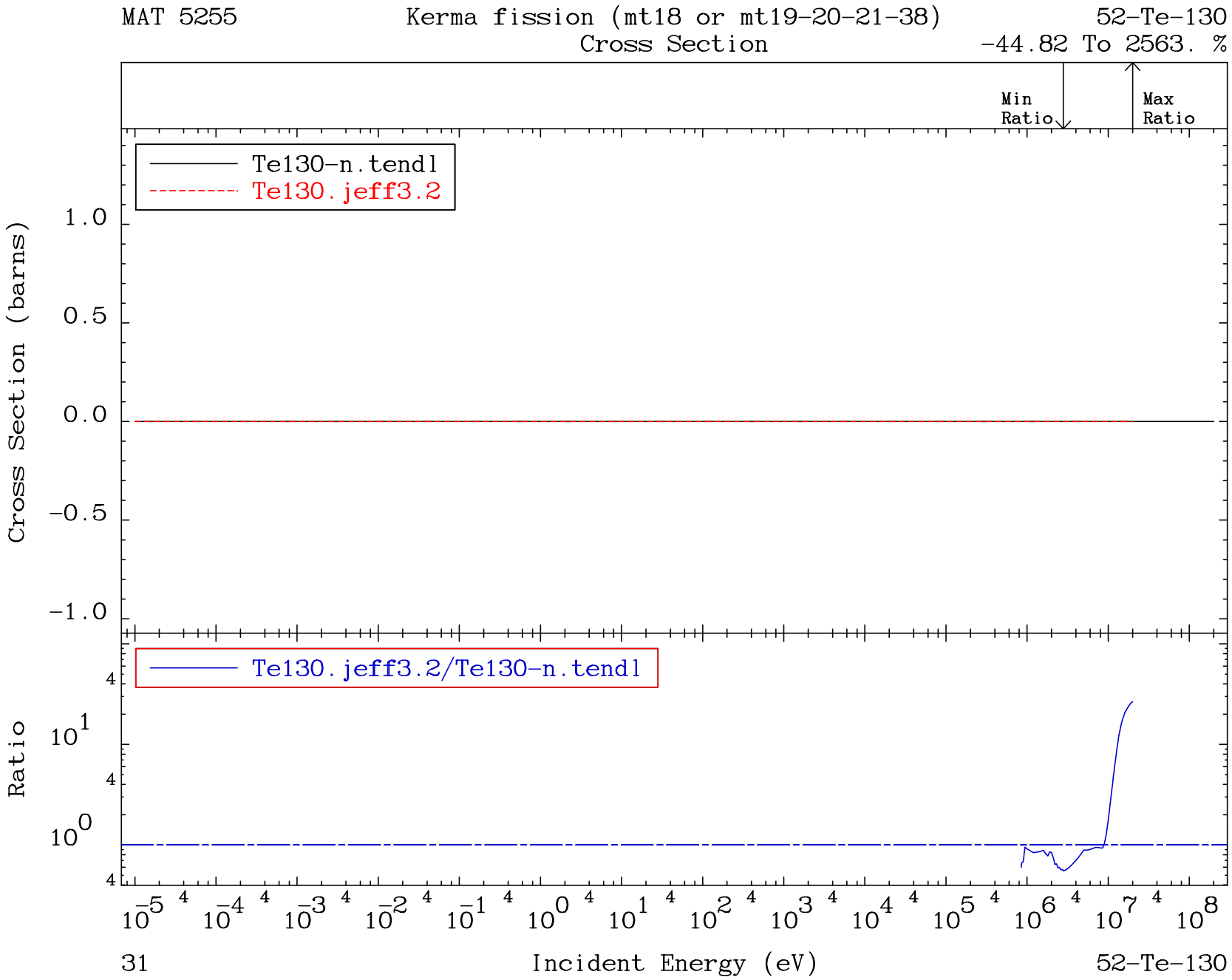

MAT 5255
He-4 Production
Cross Section
52-Te-130
-79.71 To 9999. %
Max Ratio
Min Ratio
Te130-n.tendl Threshold 107.03 keV
Te130.jeff3.2
Cross Section (milli-barns)
150
100
50
0
Te130.jeff3.2/Te130-n.tendl
Ratio
10^15
10^10
10^5
10^0
10^-2
10^-1
10^0
10^1
10^2
10^3
10^4
10^5
10^6
10^7
10^8
26
Incident Energy (eV)
52-Te-130

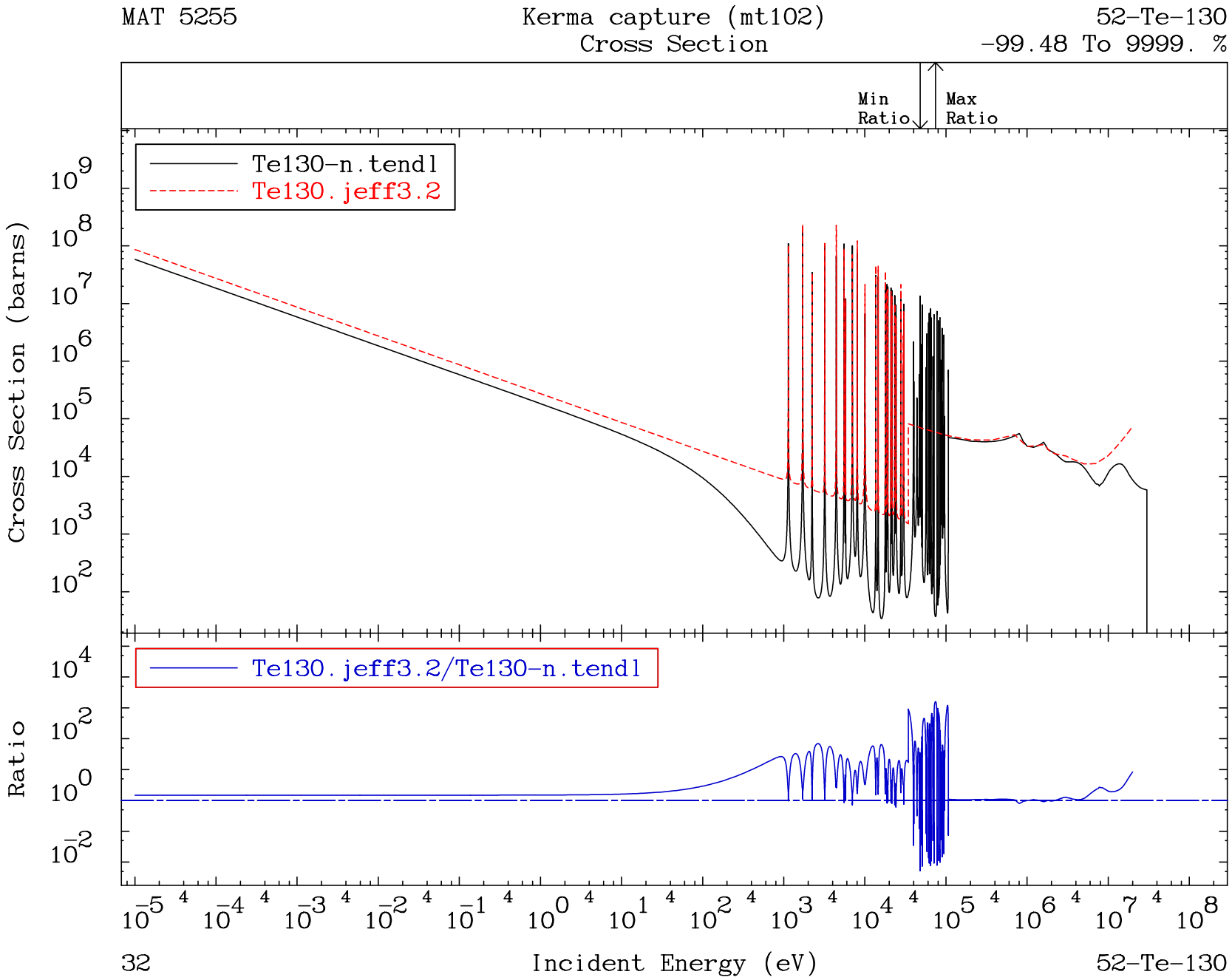

MAT 5255
Kerma total (eV-barns)
Cross Section
52-Te-130
-99.45 To 4834. %
Max Ratio
Min Ratio
Te130-n.tendl
Te130.jeff3.2
Cross Section (barns)
Te130.jeff3.2/Te130-n.tendl
Ratio
Incident Energy (eV)
27
52-Te-130

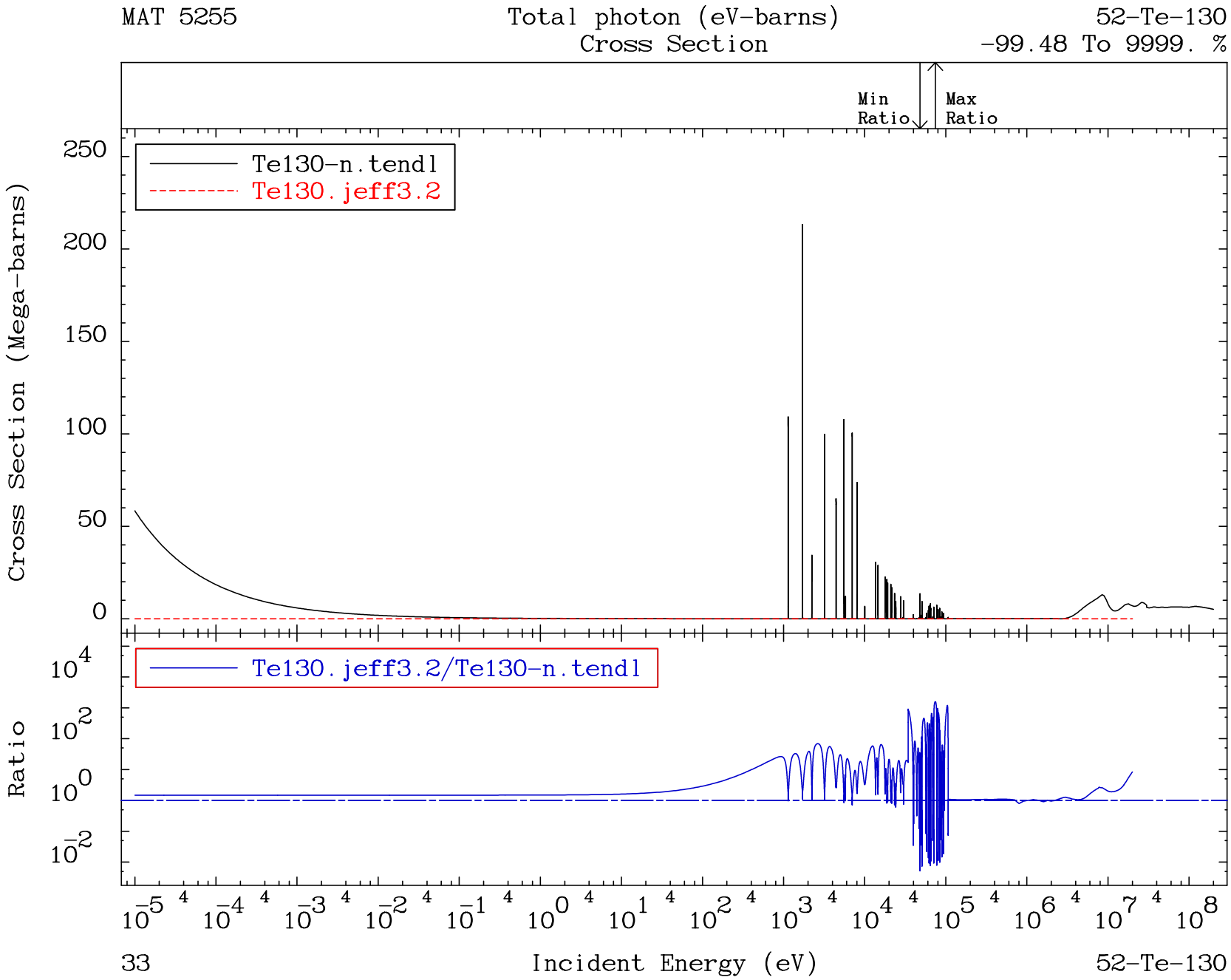

MAT 5255
Kerma elastic
Cross Section
52-Te-130
-98.92 To 9999. %
Min Ratio
Max Ratio
Te130-n.tendl
Te130.jeff3.2
Cross Section (barns)
Te130.jeff3.2/Te130-n.tendl
Ratio
Incident Energy (eV)
28
52-Te-130

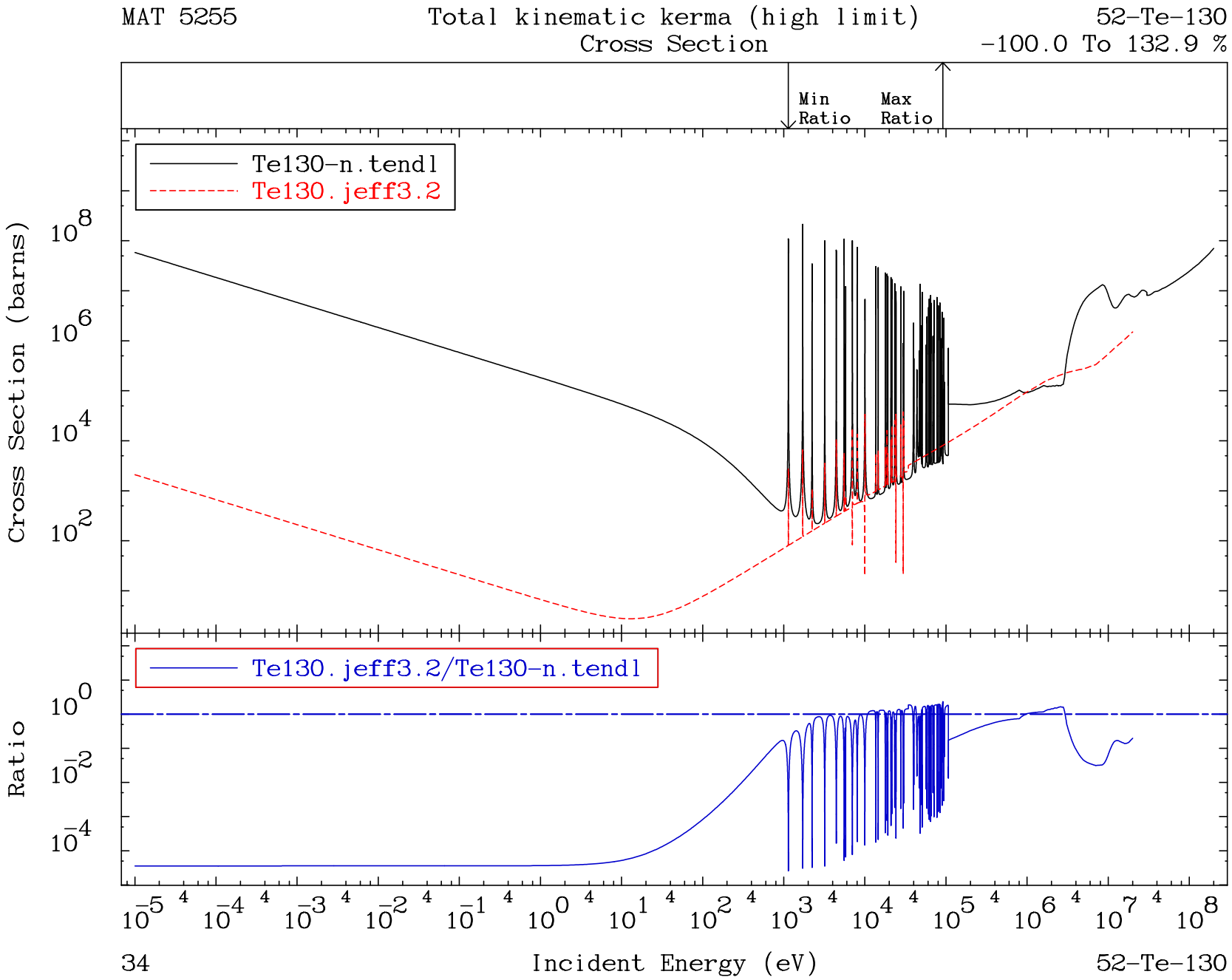

MAT 5255
Kerma non-elastic (all but mt2)
Cross Section
52-Te-130
-99.48 To 9999. %
Min Ratio
Max Ratio
Te130-n.tendl
Te130.jeff3.2
Cross Section (barns)
Te130.jeff3.2/Te130-n.tendl
Ratio
Incident Energy (eV)
29
52-Te-130

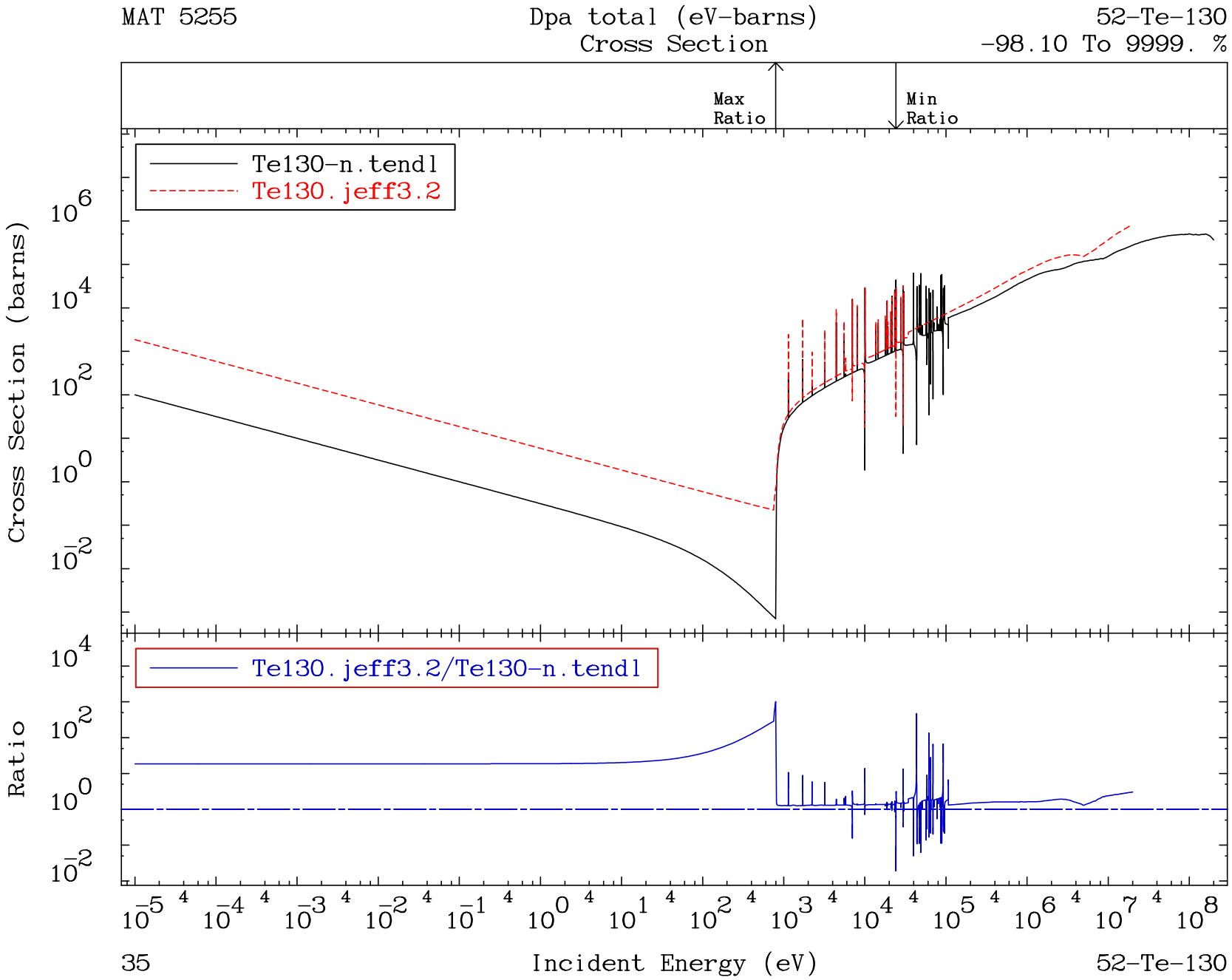

MAT 5255
Kerma inelastic (mt51-91)
Cross Section
52-Te-130
-44.82 To 2563. %
Min Ratio
Max Ratio
Te130-n.tendl Threshold 850.00 keV
Te130.jeff3.2 Threshold 846.88 keV
Cross Section (barns)
Te130.jeff3.2/Te130-n.tendl
Ratio
Incident Energy (eV)
30
52-Te-130

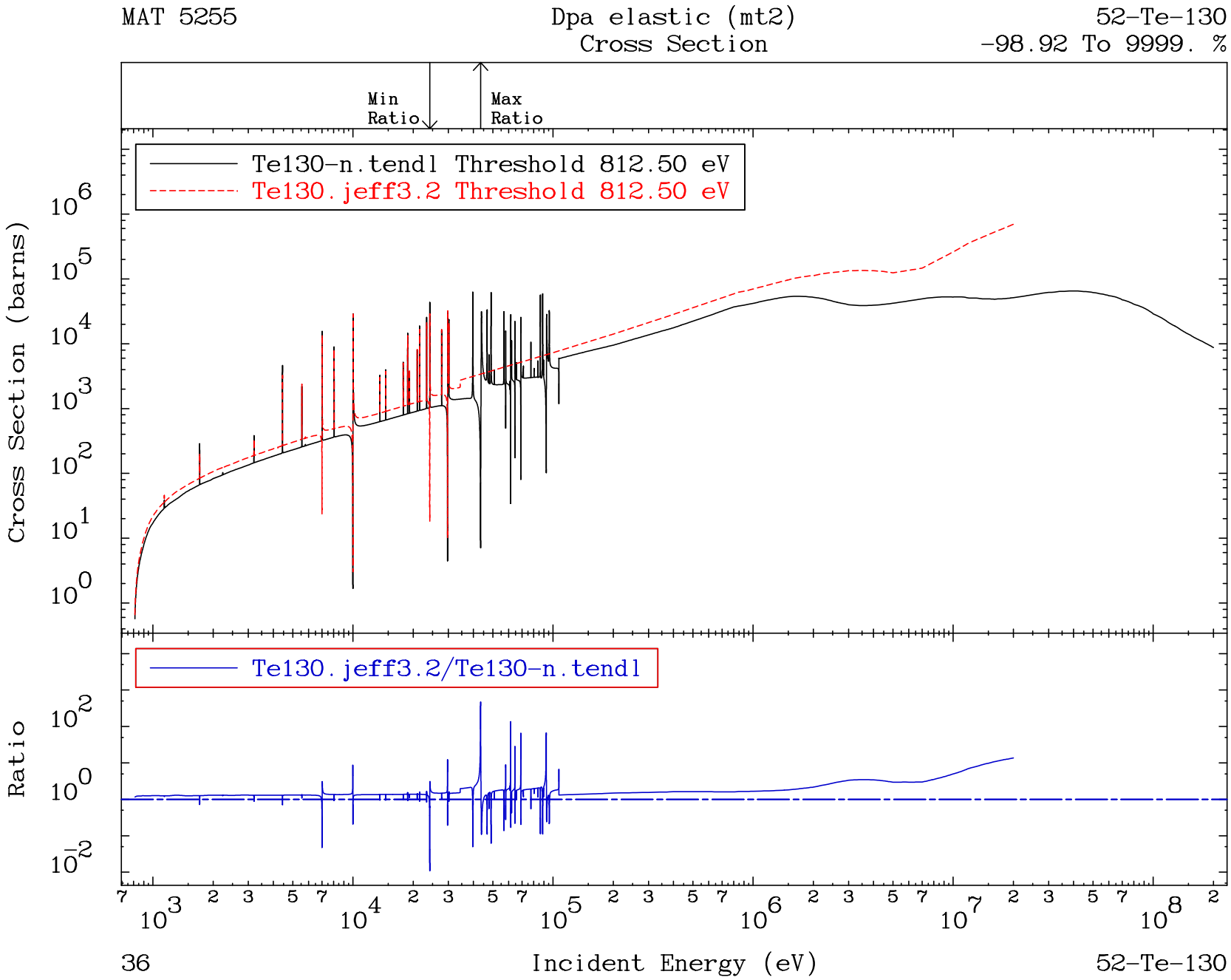

MAT 5255
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
52-Te-130
-44.82 To 2563. %
Min Ratio
Max Ratio
Te130-n.tendl
Te130.jeff3.2
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
Te130.jeff3.2/Te130-n.tendl
Ratio
10^{1}
10^{0}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
31
Incident Energy (eV)
52-Te-130

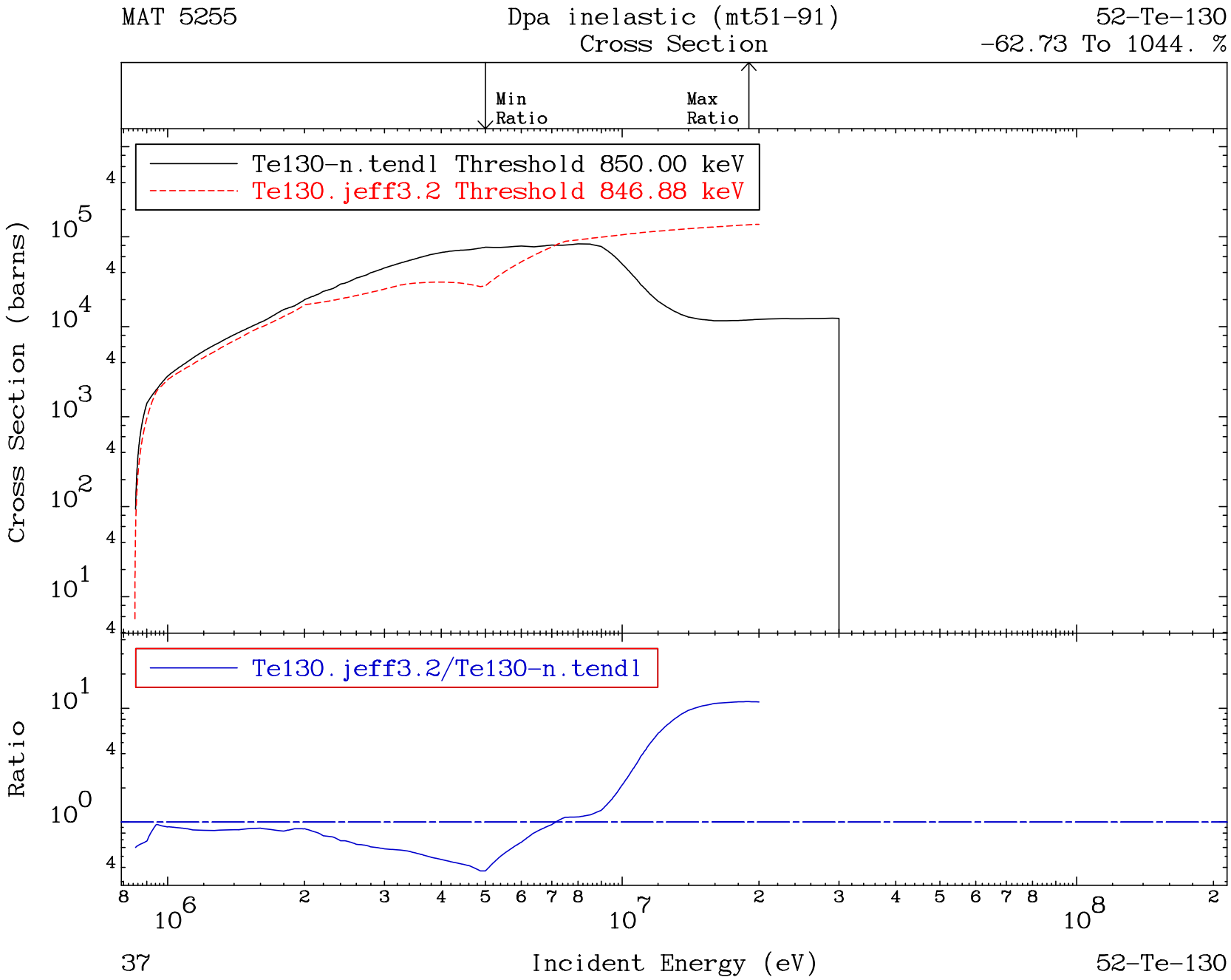

MAT 5255
Kerma capture (mt102)
Cross Section
52-Te-130
-99.48 To 9999. %
Min Ratio
Max Ratio
Te130-n.tendl
Te130.jeff3.2
Cross Section (barns)
Te130.jeff3.2/Te130-n.tendl
Ratio
Incident Energy (eV)
32
52-Te-130

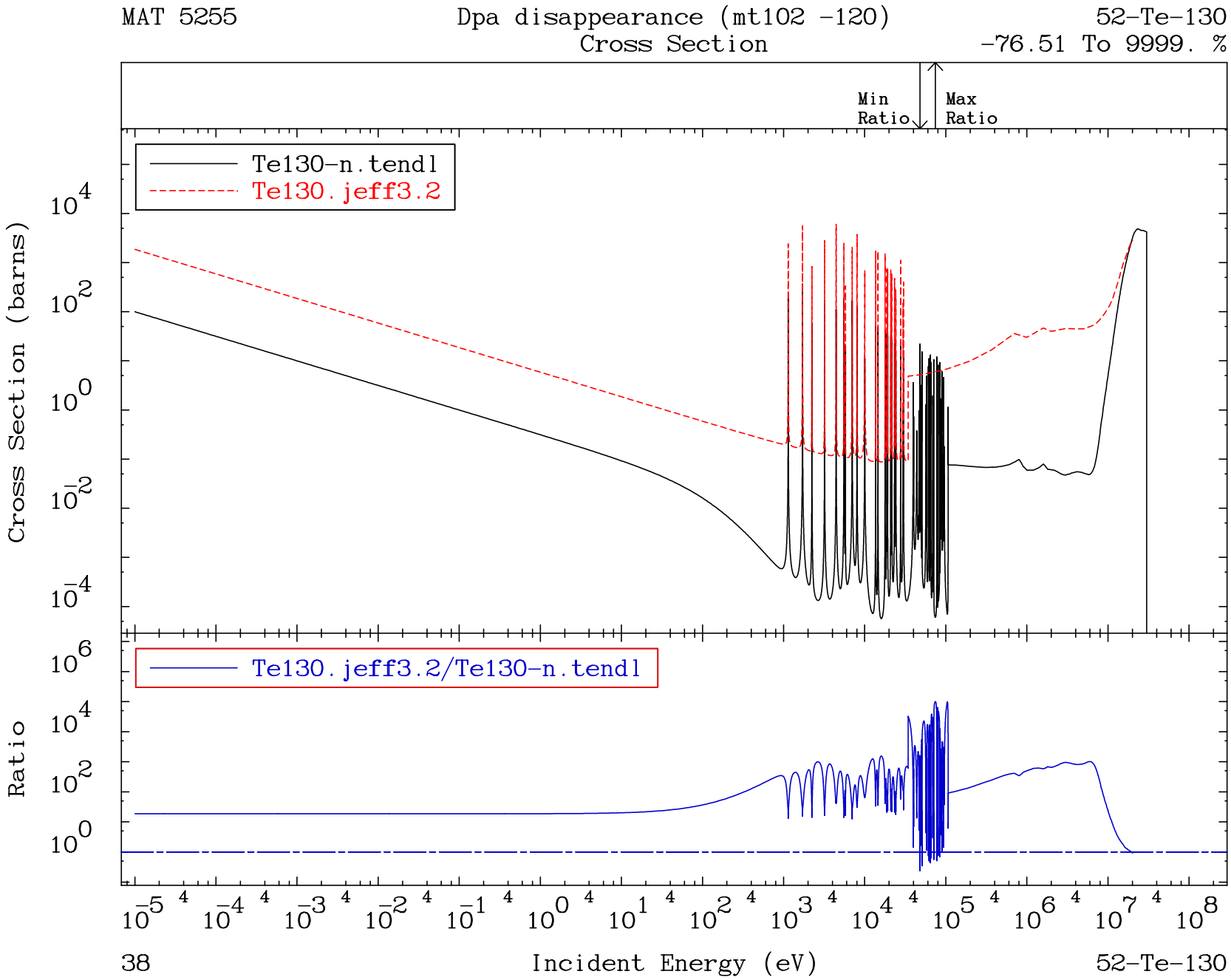

MAT 5255
Total photon (eV-barns)
Cross Section
52-Te-130
-99.48 To 9999. %
Min Ratio
Max Ratio
Te130-n.tendl
Te130.jeff3.2
Cross Section (Mega-barns)
250
200
150
100
50
0
Te130.jeff3.2/Te130-n.tendl
Ratio
10^4
10^2
10^0
10^-2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
33
Incident Energy (eV)
52-Te-130


MAT 5255
Total kinematic kerma (high limit)
Cross Section
52-Te-130
-100.0 To 132.9 %
Min Ratio
Max Ratio
Te130-n.tendl
Te130.jeff3.2
Cross Section (barns)
Te130.jeff3.2/Te130-n.tendl
Ratio
Incident Energy (eV)
34
52-Te-130


MAT 5255
Dpa total (eV-barns)
Cross Section
52-Te-130
-98.10 To 9999. %
Max Ratio
Min Ratio
Te130-n.tendl
Te130.jeff3.2
Cross Section (barns)
Te130.jeff3.2/Te130-n.tendl
Ratio
Incident Energy (eV)
35
52-Te-130


MAT 5255
Dpa elastic (mt2)
Cross Section
52-Te-130
-98.92 To 9999. %
Min Ratio
Max Ratio
Te130-n.tendl Threshold 812.50 eV
Te130.jeff3.2 Threshold 812.50 eV
Cross Section (barns)
Te130.jeff3.2/Te130-n.tendl
Ratio
Incident Energy (eV)
36
52-Te-130


MAT 5255
Dpa inelastic (mt51-91)
Cross Section
52-Te-130
-62.73 To 1044. %
Min Ratio
Max Ratio
Te130-n.tendl Threshold 850.00 keV
Te130.jeff3.2 Threshold 846.88 keV
Cross Section (barns)
Te130.jeff3.2/Te130-n.tendl
Ratio
Incident Energy (eV)
37
52-Te-130


MAT 5255
Dpa disappearance (mt102 -120)
Cross Section
52-Te-130
-76.51 To 9999. %
Min Ratio
Max Ratio
Te130-n.tendl
Te130.jeff3.2
Cross Section (barns)
Te130.jeff3.2/Te130-n.tendl
Ratio
Incident Energy (eV)
38
52-Te-130