Program Complot
(Version 2021-1)
by
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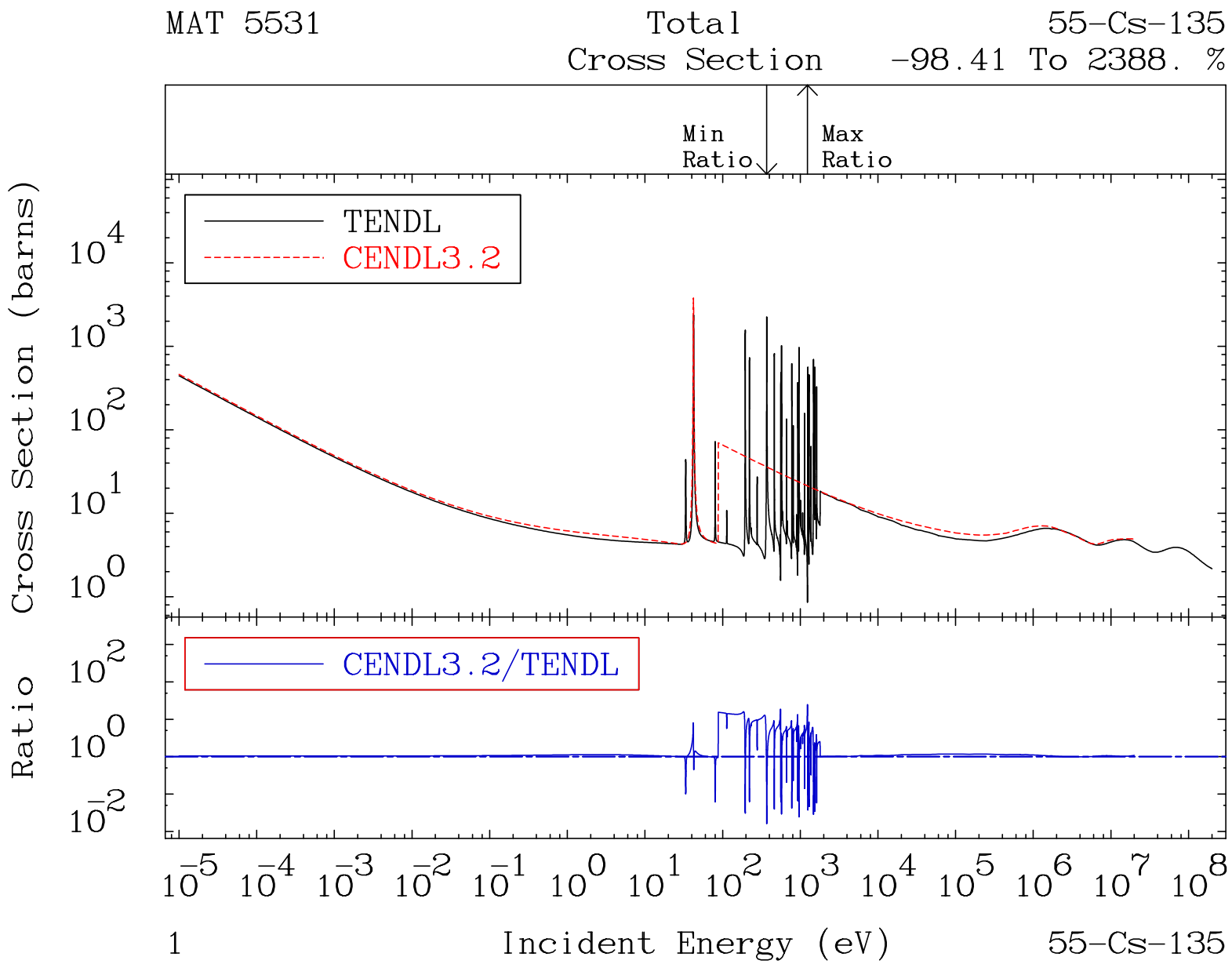
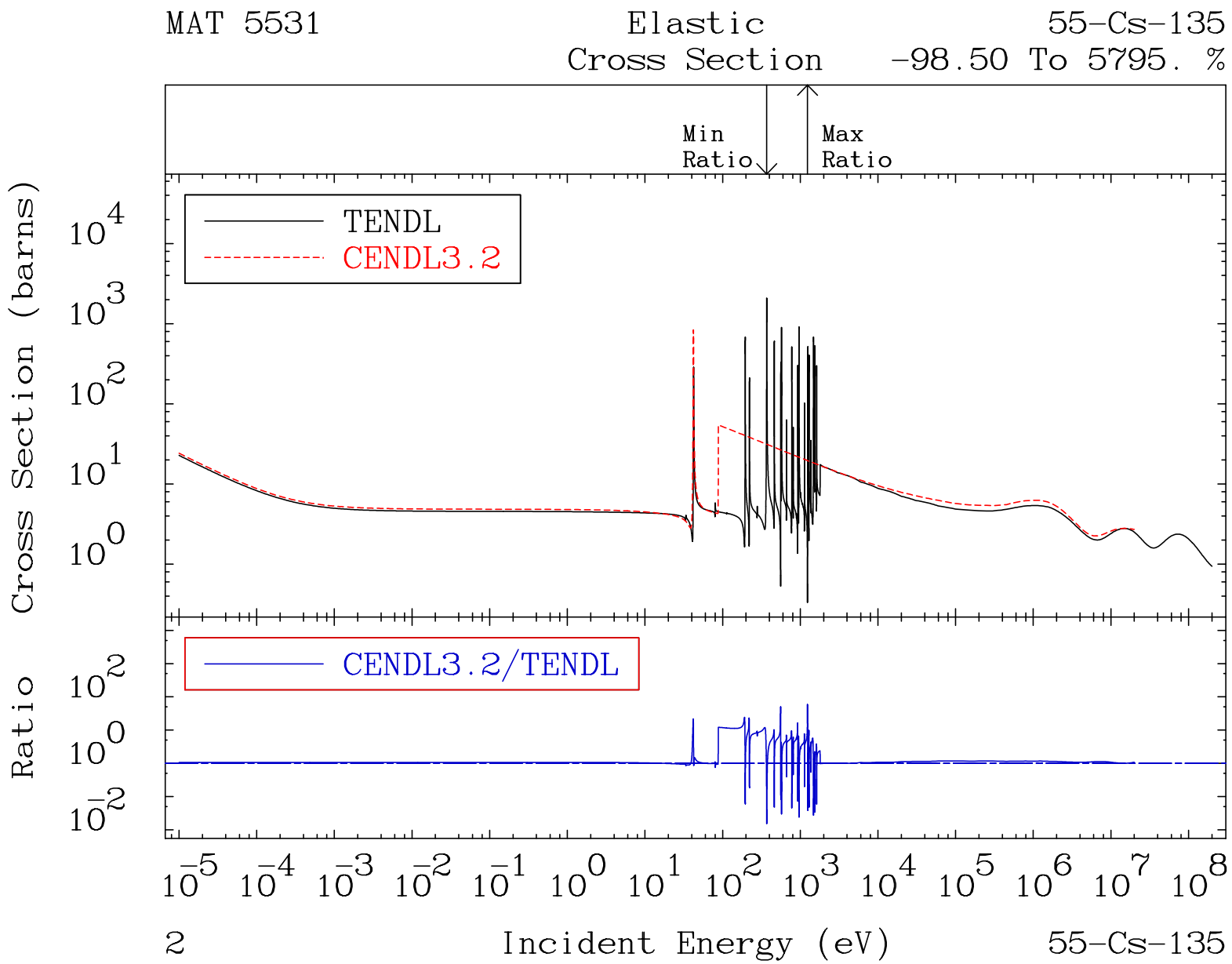
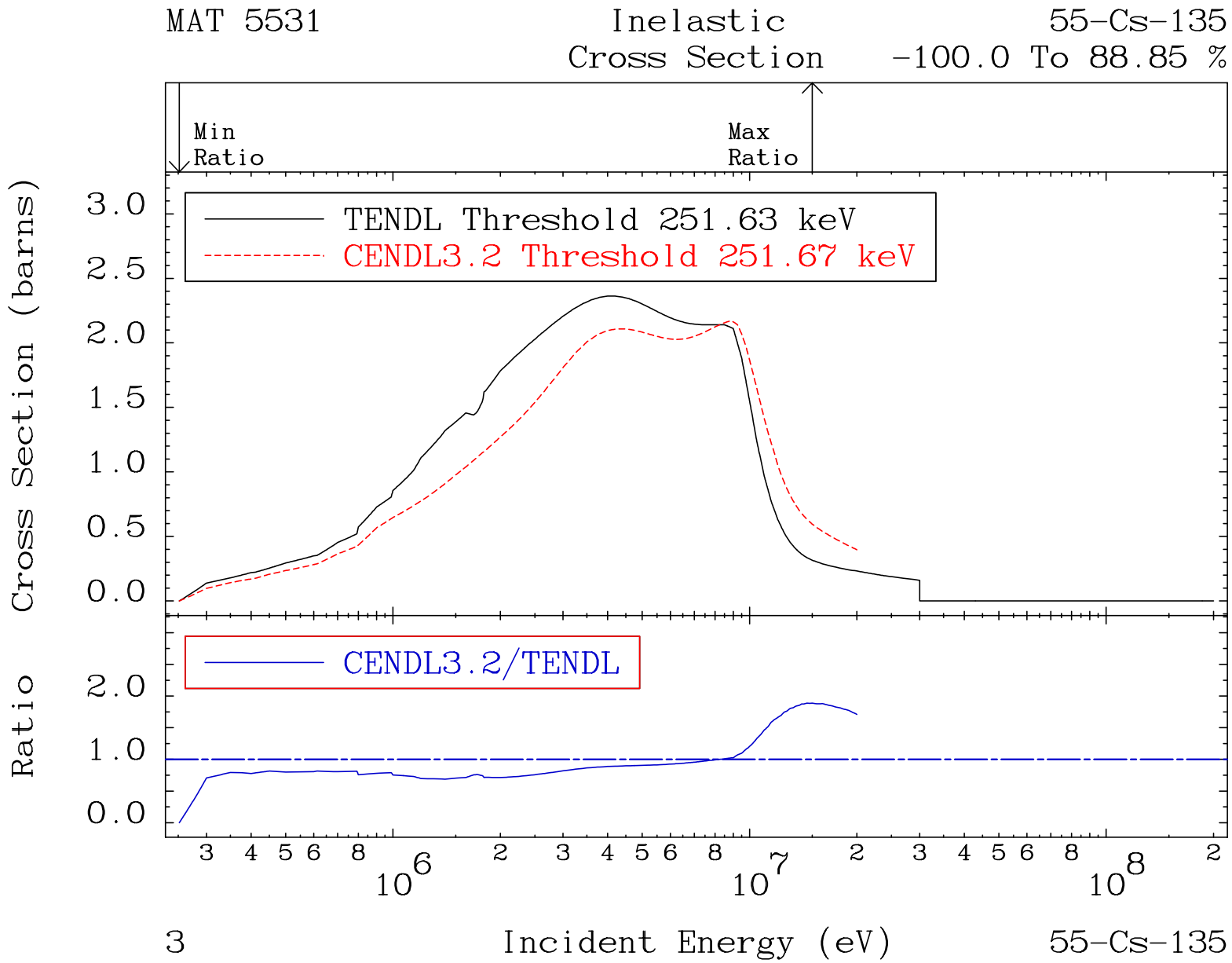
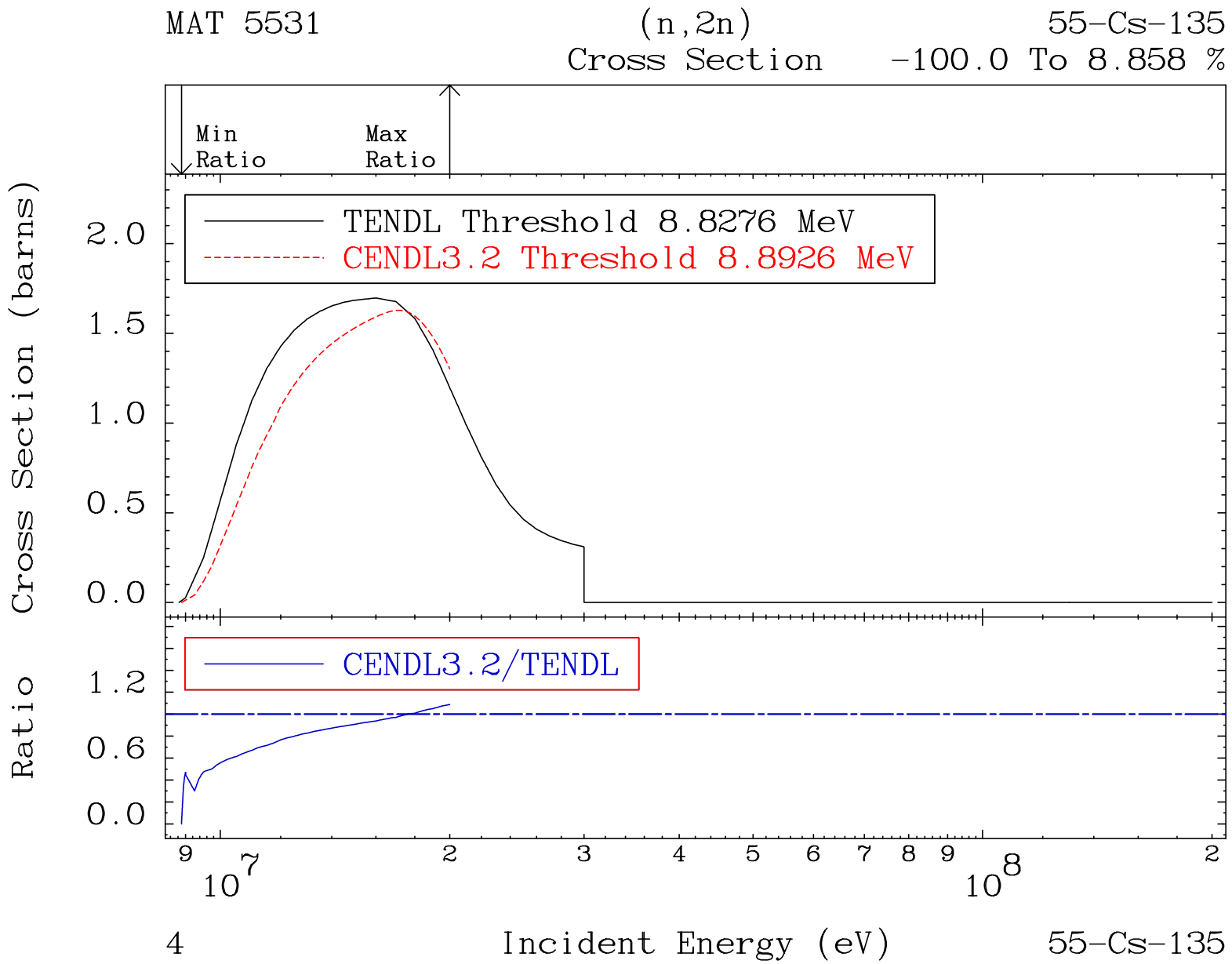
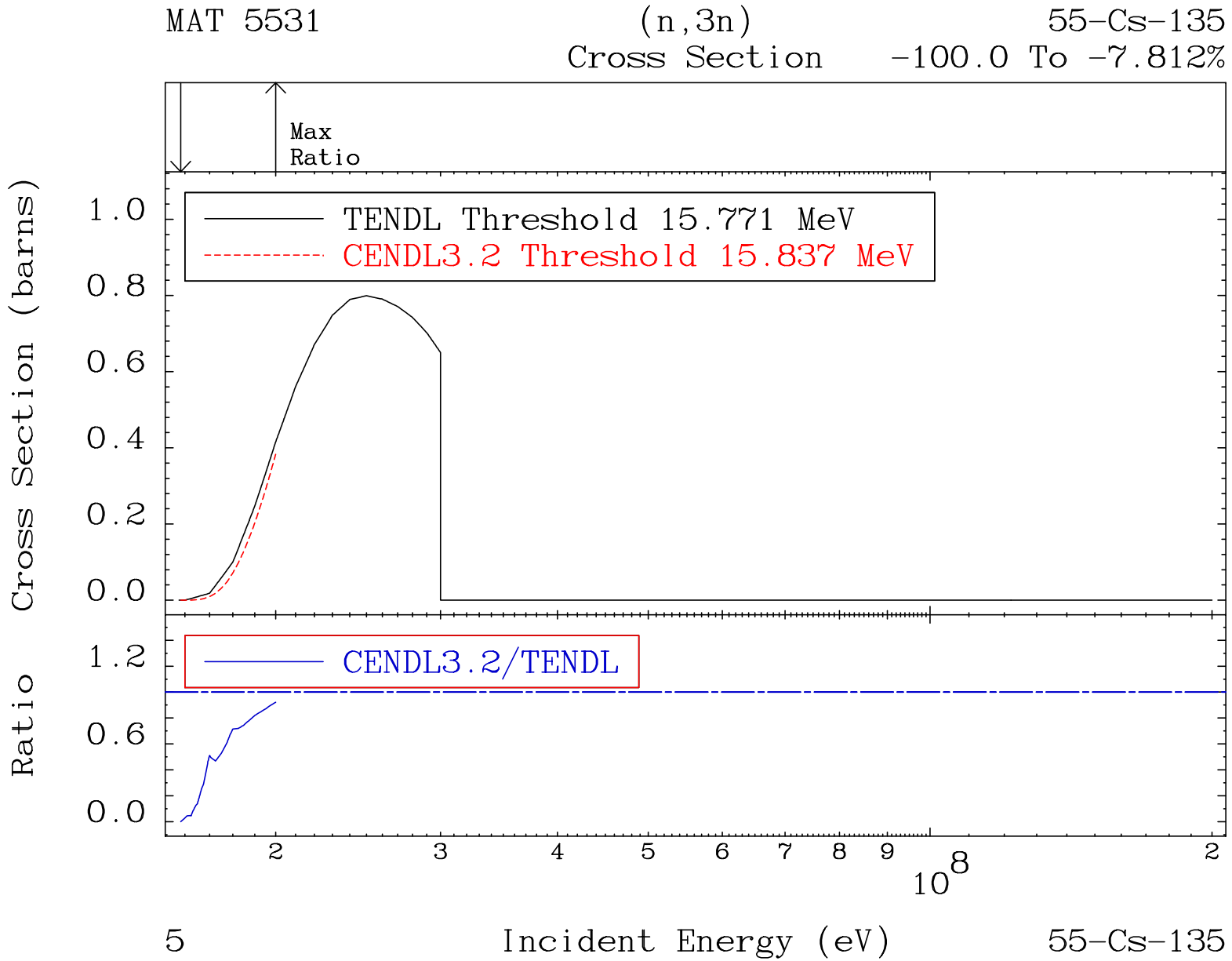
Press Mouse Button to Start

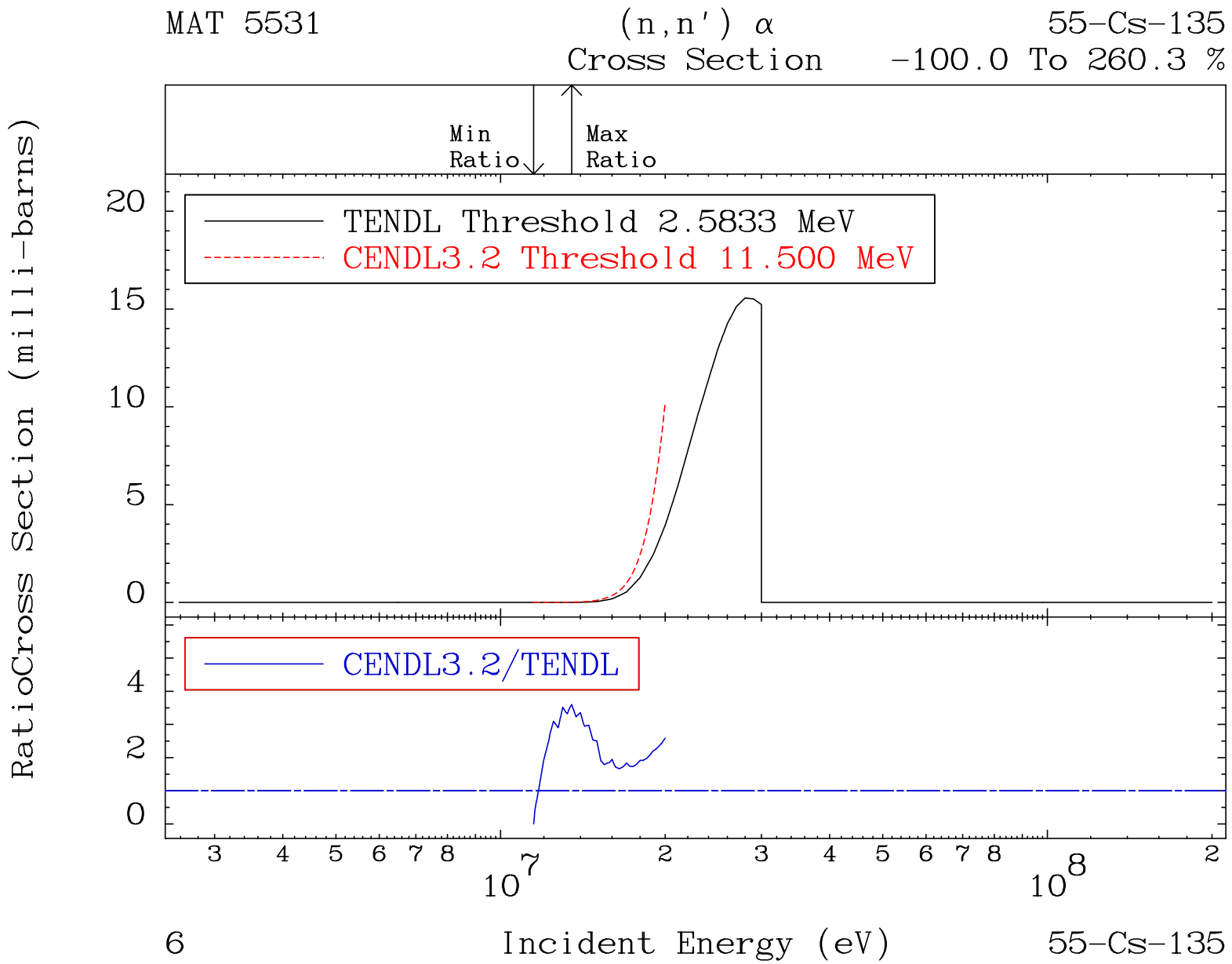

MAT 5531
Total
Cross Section
55-Cs-135
-98.41 To 2388. %
Min
Ratio
Max
Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
55-Cs-135

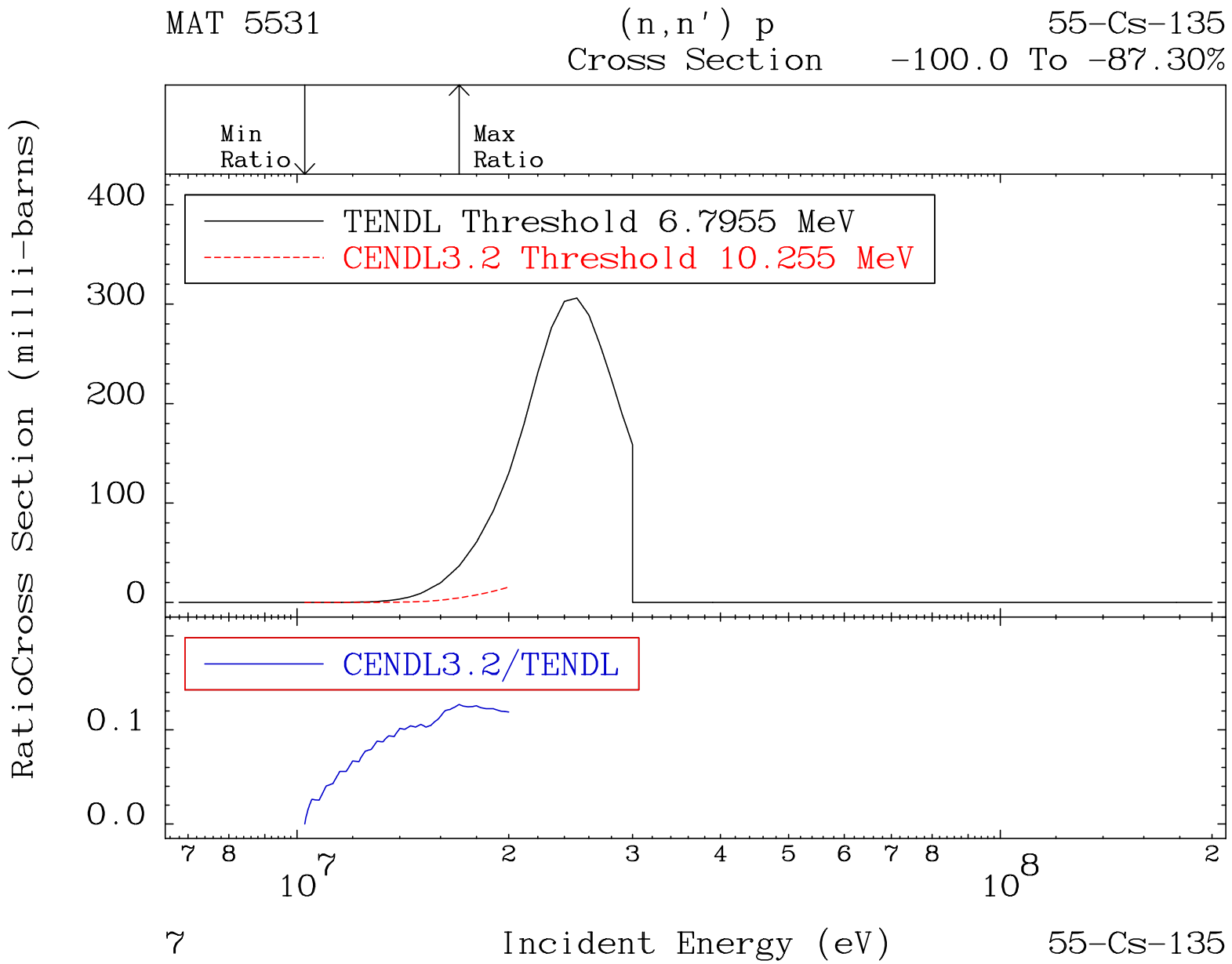

MAT 5531
Elastic
Cross Section
55-Cs-135
-98.50 To 5795. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
55-Cs-135

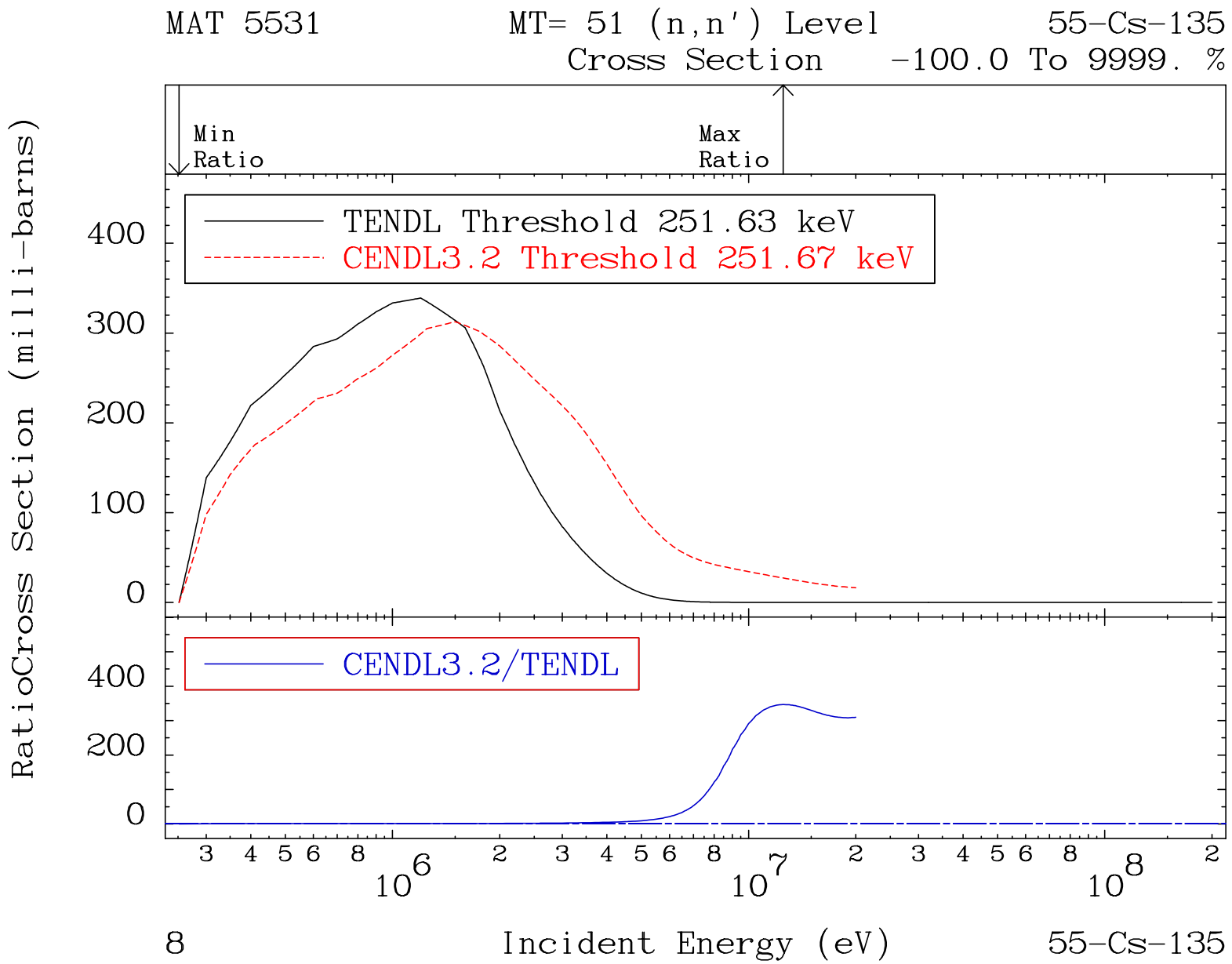

MAT 5531
Inelastic
Cross Section
55-Cs-135
-100.0 To 88.85 %
Min
Ratio
Max
Ratio
TENDL Threshold 251.63 keV
CENDL3.2 Threshold 251.67 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2.0
1.0
0.0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
55-Cs-135

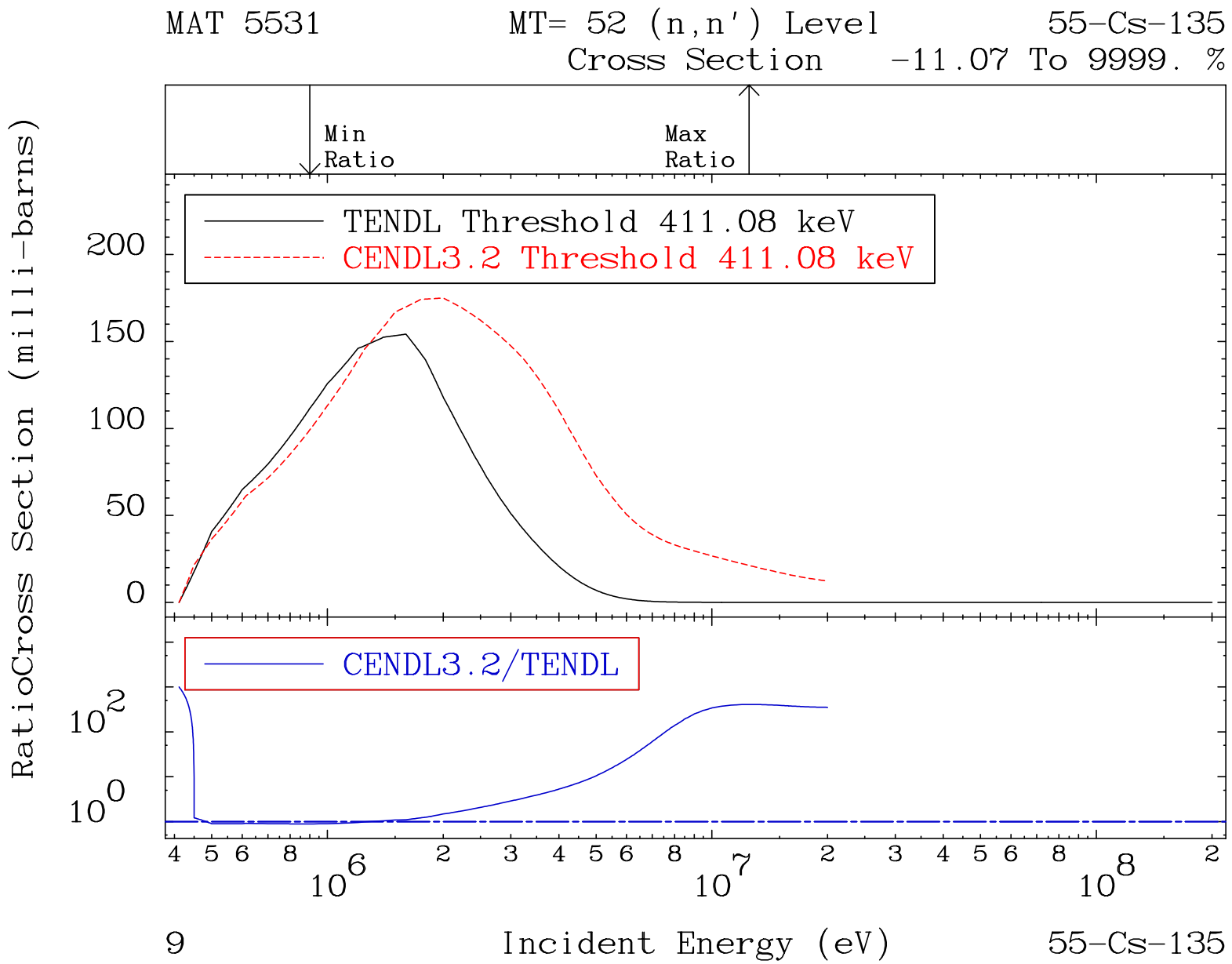

MAT 5531
(n,2n)
Cross Section
55-Cs-135
-100.0 To 8.858 %
Min Ratio
Max Ratio
TENDL Threshold 8.8276 MeV
CENDL3.2 Threshold 8.8926 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.2
0.6
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
Incident Energy (eV)
4
55-Cs-135

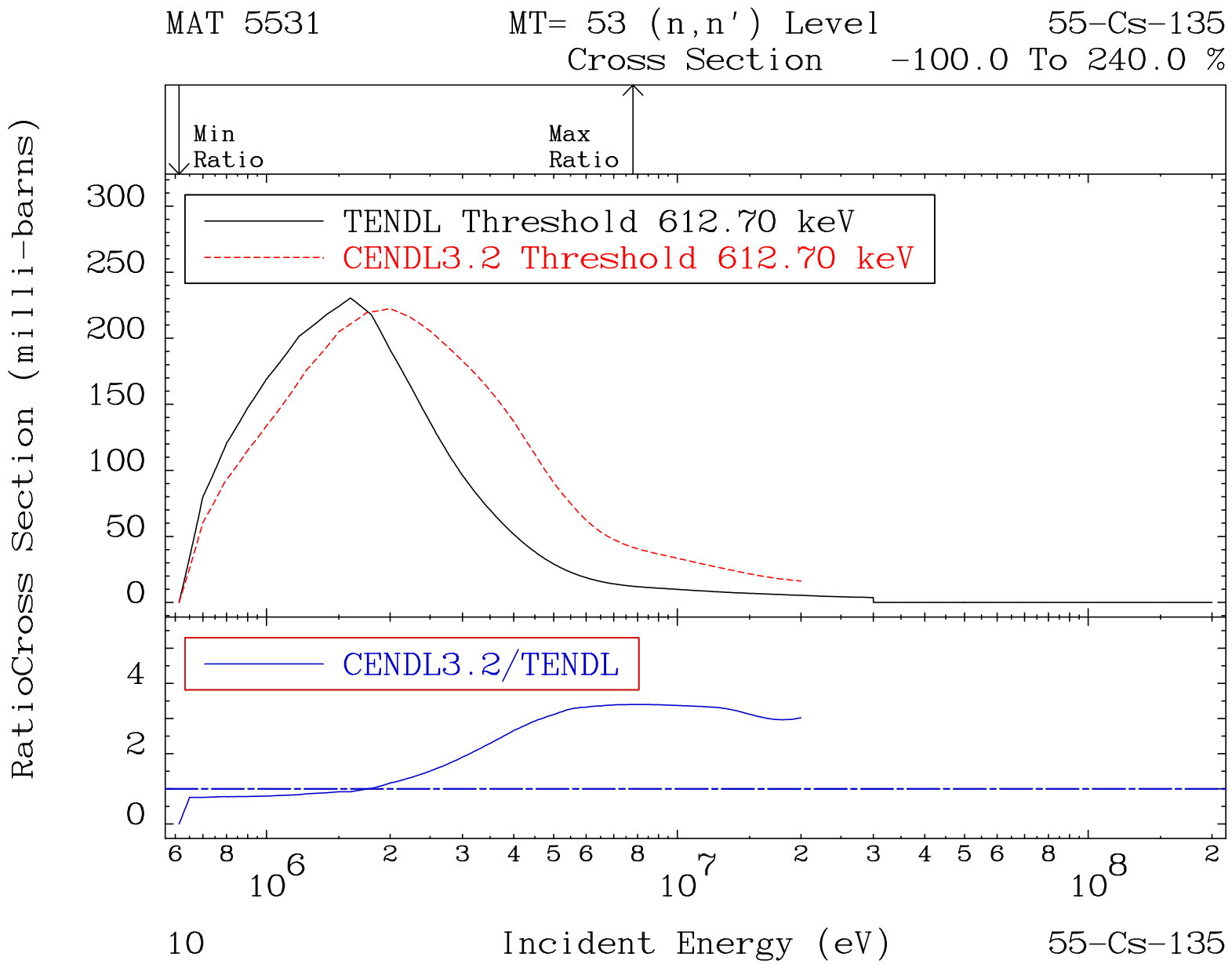

MAT 5531
(n,3n)
Cross Section
55-Cs-135
-100.0 To -7.812%
Max
Ratio
TENDL Threshold 15.771 MeV
CENDL3.2 Threshold 15.837 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
55-Cs-135

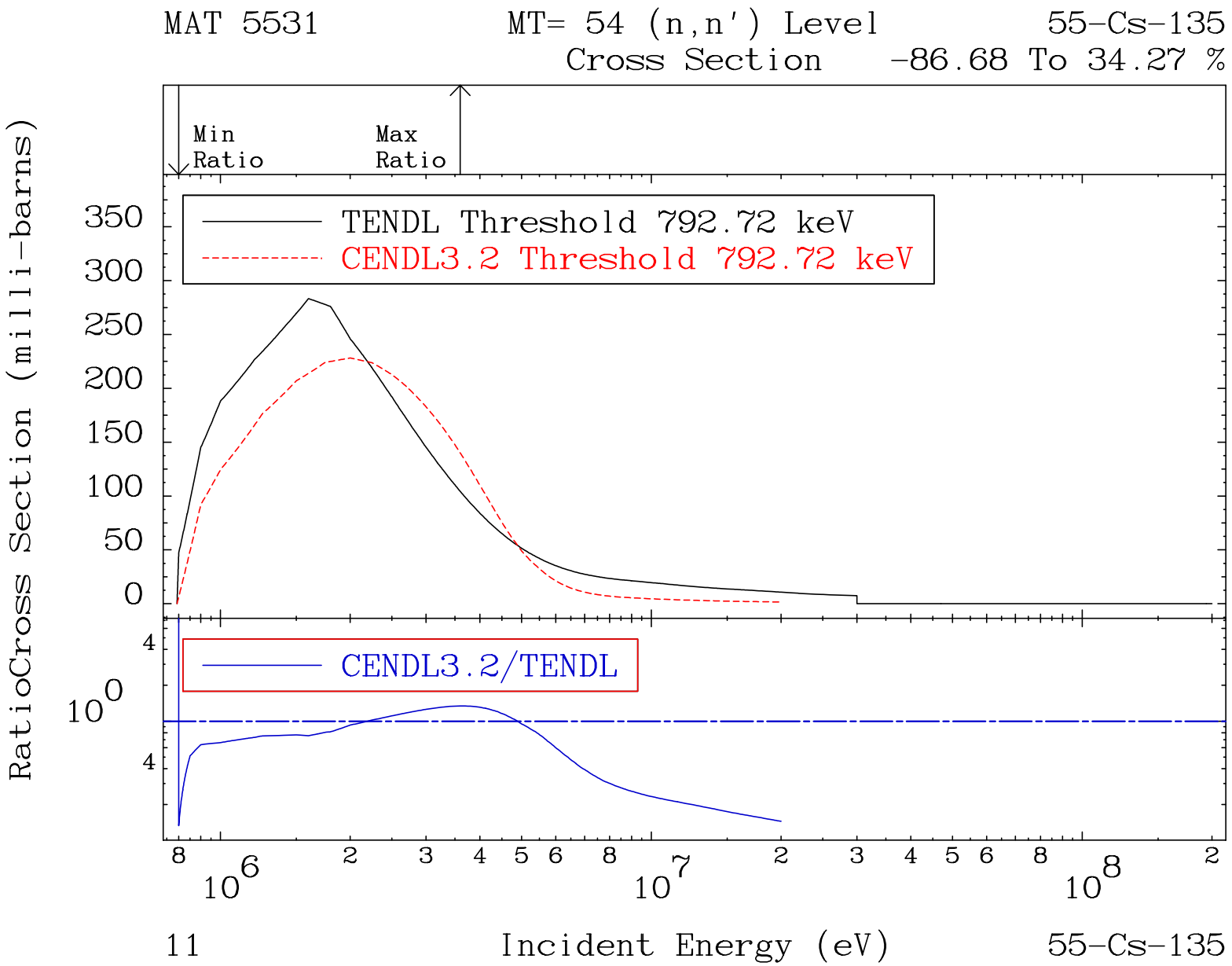

MAT 5531
(n,n') α
Cross Section
55-Cs-135
-100.0 To 260.3 %
Min Ratio
Max Ratio
TENDL Threshold 2.5833 MeV
CENDL3.2 Threshold 11.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
6
55-Cs-135

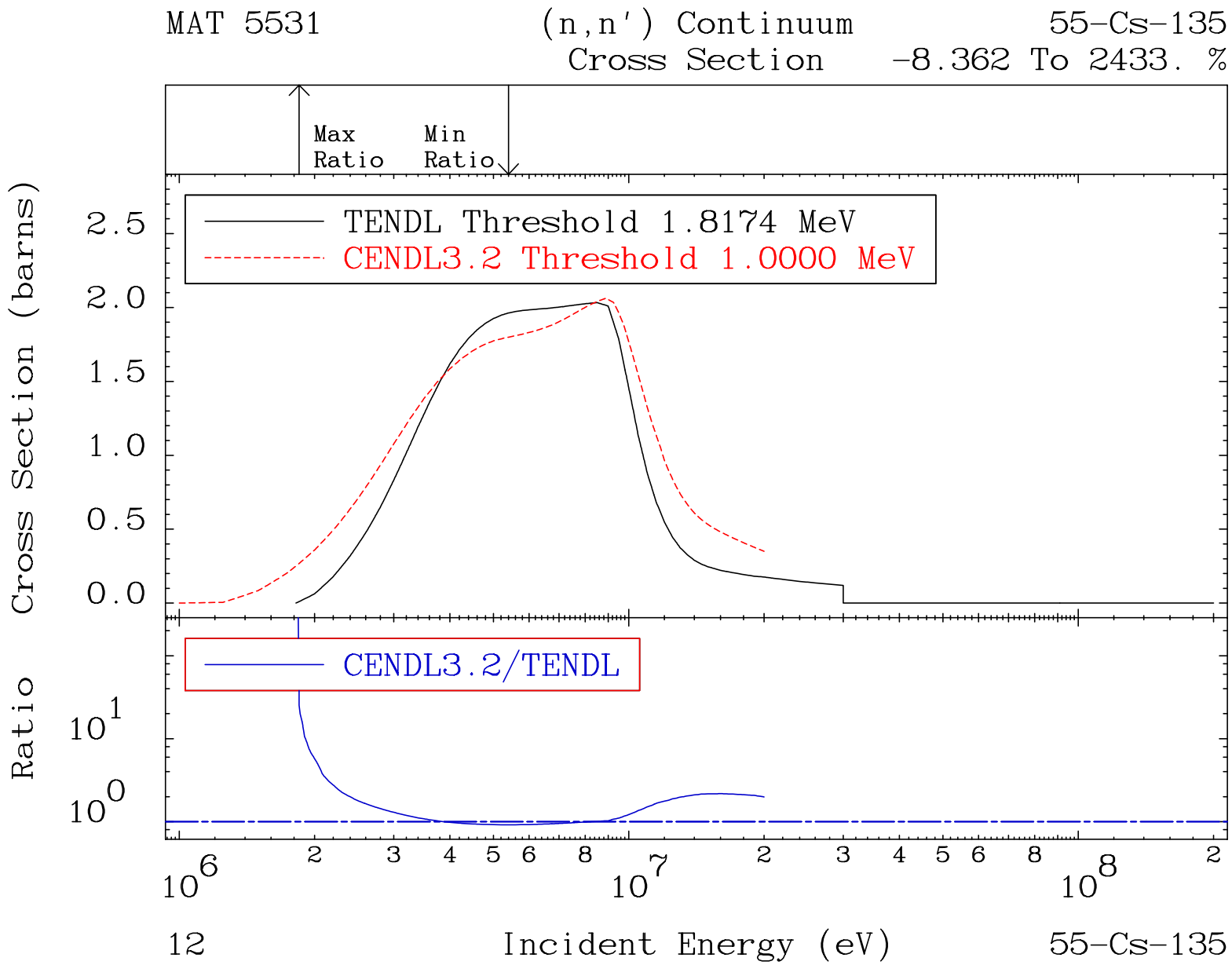

MAT 5531
(n,n') p
Cross Section
55-Cs-135
-100.0 To -87.30%
Min Ratio
Max Ratio
TENDL Threshold 6.7955 MeV
CENDL3.2 Threshold 10.255 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
0.1
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
7
Incident Energy (eV)
55-Cs-135

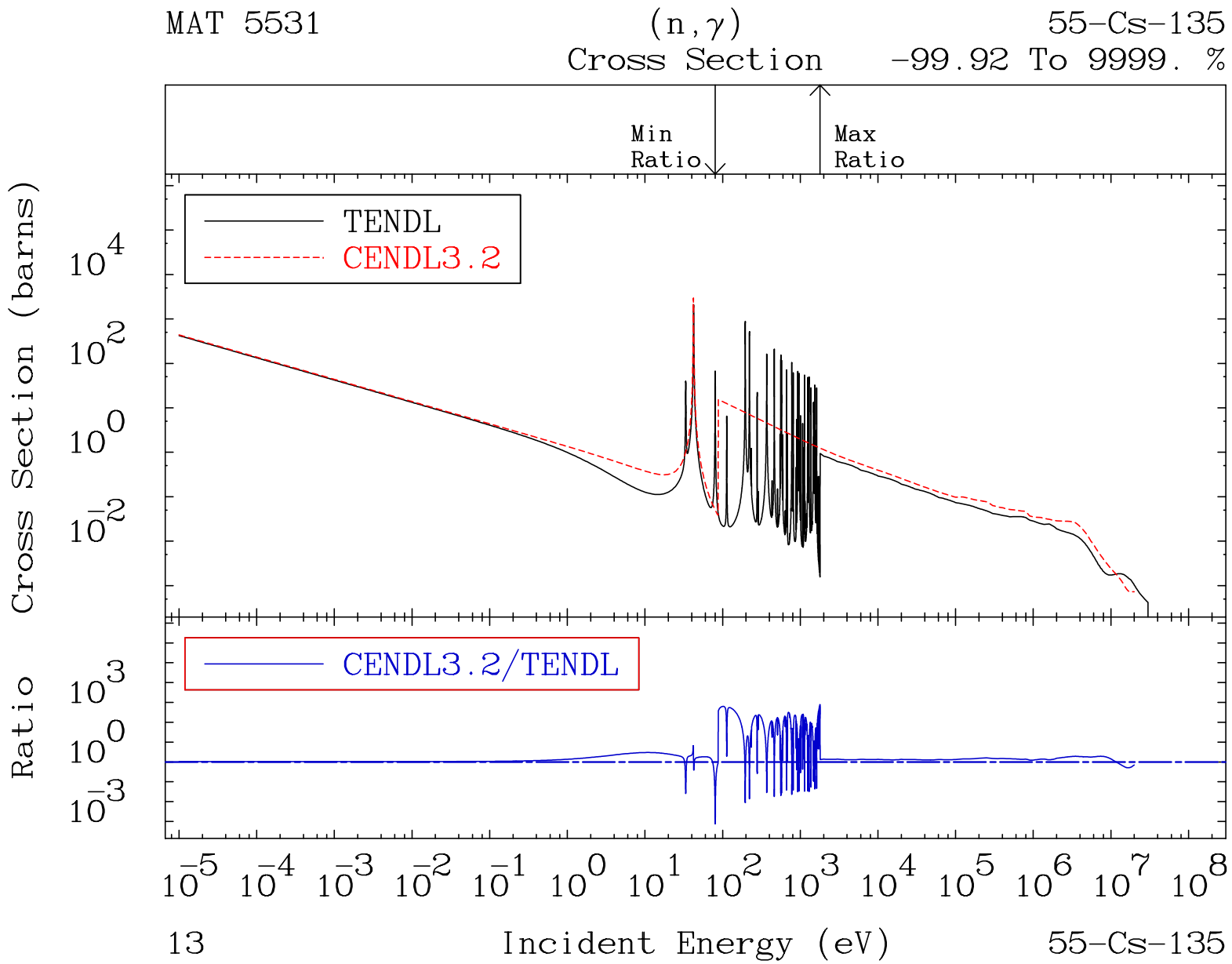

MAT 5531
MT= 51 (n,n') Level
55-Cs-135
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 251.63 keV
CENDL3.2 Threshold 251.67 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
400
200
0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
8
Incident Energy (eV)
55-Cs-135

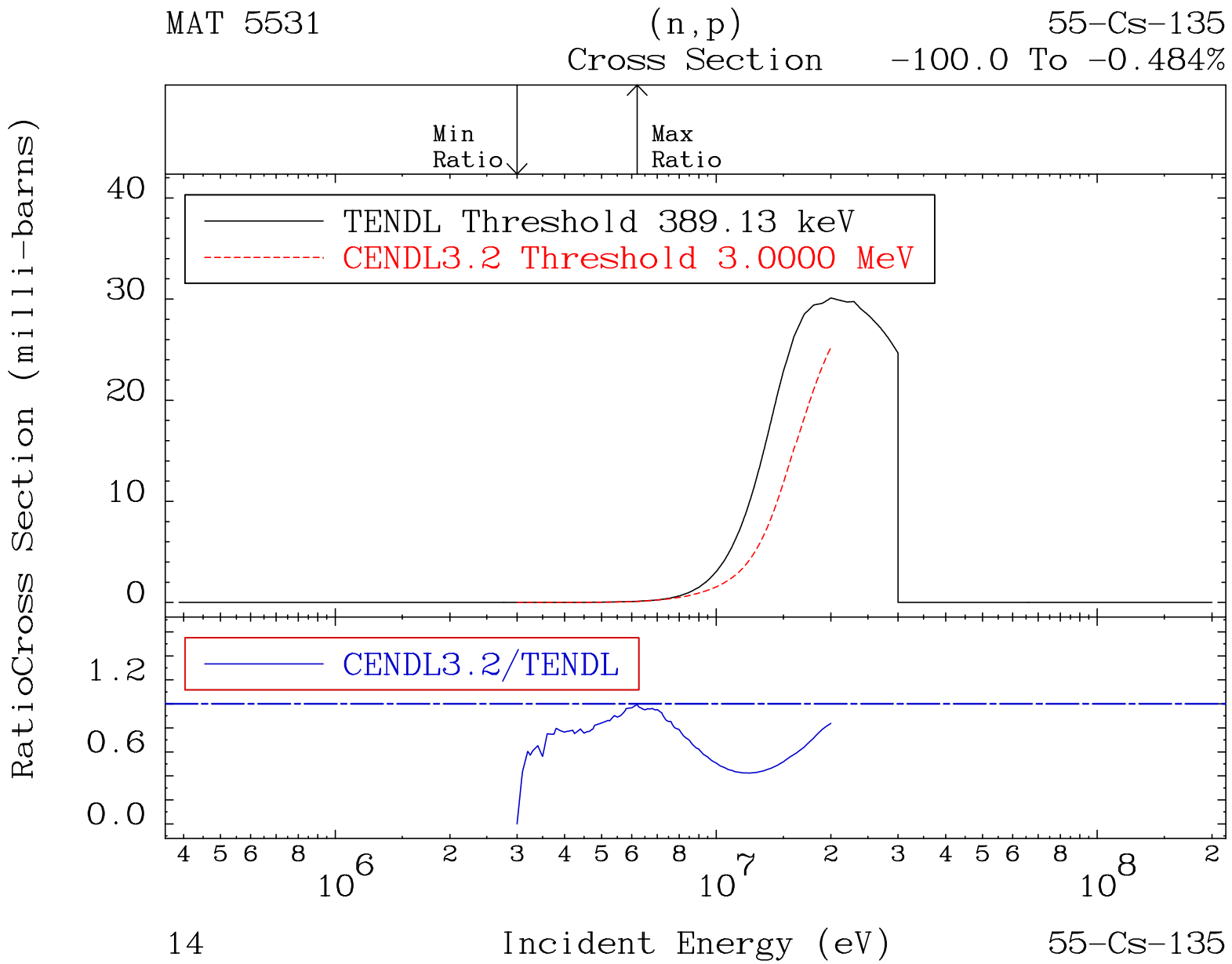

MAT 5531
MT= 52 (n,n') Level
55-Cs-135
Cross Section -11.07 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 411.08 keV
CENDL3.2 Threshold 411.08 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
10^2
10^0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
9
Incident Energy (eV)
55-Cs-135

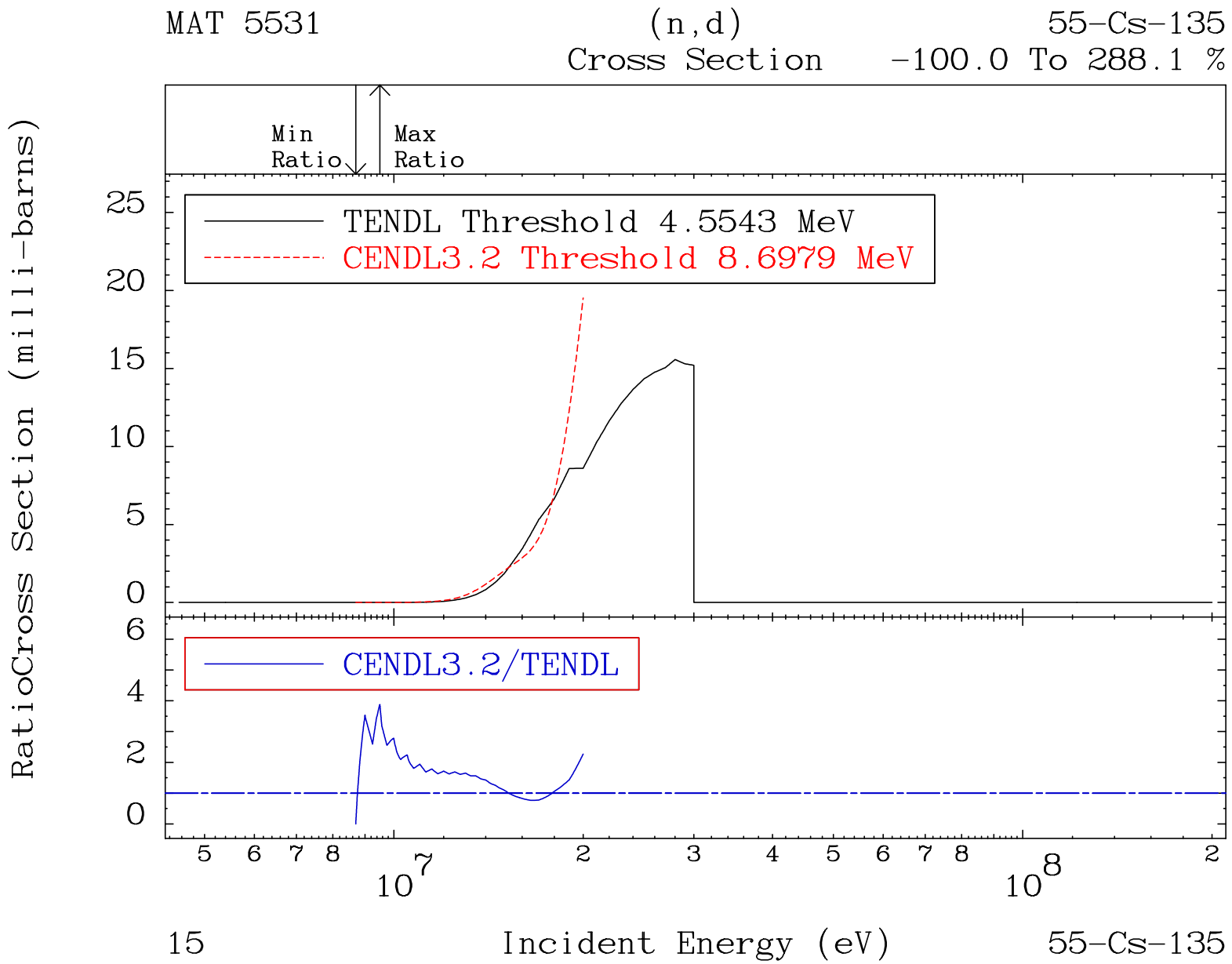

MAT 5531
MT= 53 (n,n') Level
55-Cs-135
Cross Section
-100.0 To 240.0 %
Min Ratio
Max Ratio
TENDL Threshold 612.70 keV
CENDL3.2 Threshold 612.70 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
4
2
0
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
10
Incident Energy (eV)
55-Cs-135

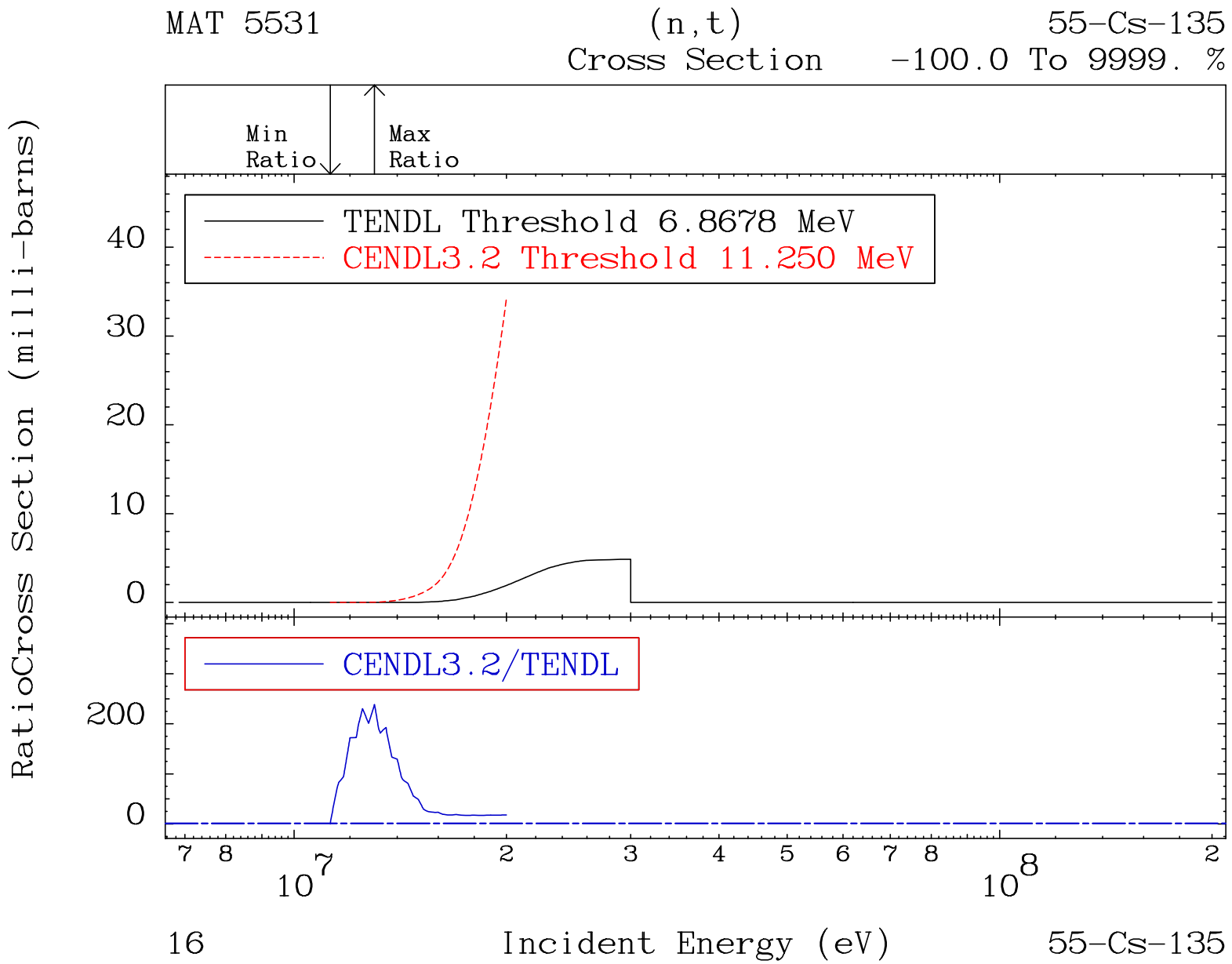

MAT 5531
MT= 54 (n,n') Level
55-Cs-135
Cross Section
-86.68 To 34.27 %
Min Ratio
Max Ratio
TENDL Threshold 792.72 keV
CENDL3.2 Threshold 792.72 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
4
10^0
4
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
11
Incident Energy (eV)
55-Cs-135

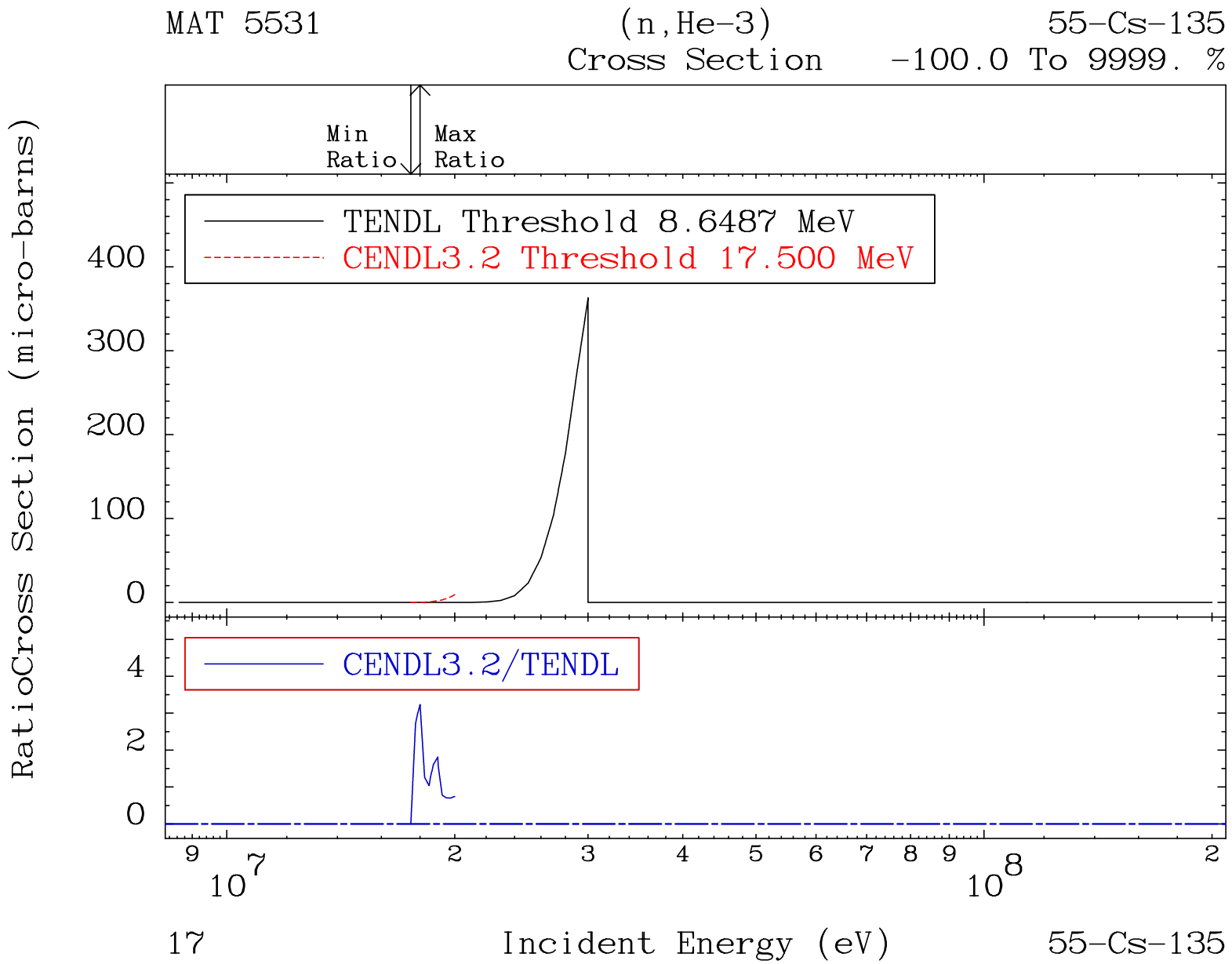

MAT 5531
(n,n') Continuum
Cross Section
55-Cs-135
-8.362 To 2433. %
Max Ratio
Min Ratio
TENDL Threshold 1.8174 MeV
CENDL3.2 Threshold 1.0000 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
12
55-Cs-135

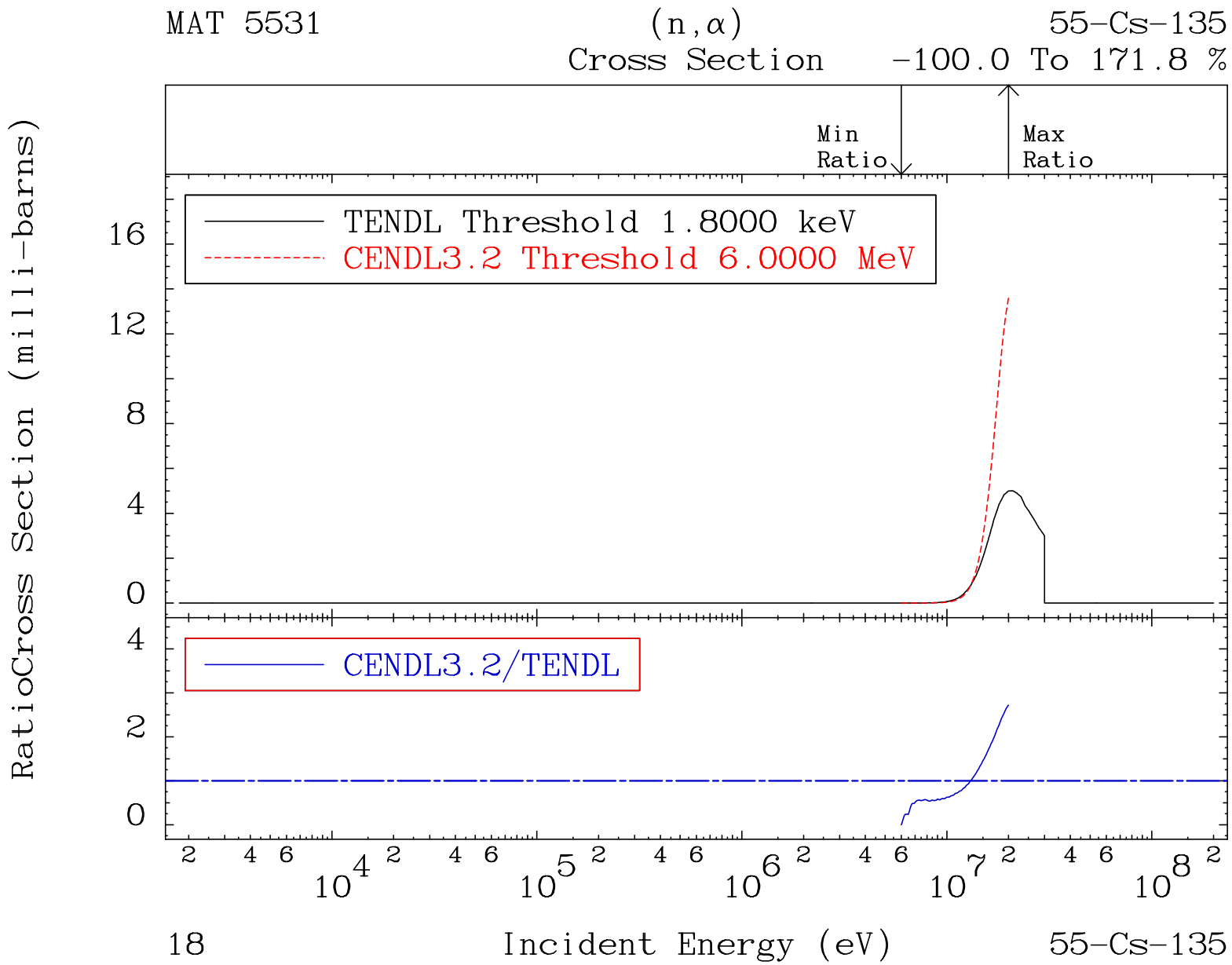

MAT 5531
(n,γ)
55-Cs-135
Cross Section
-99.92 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
13
55-Cs-135

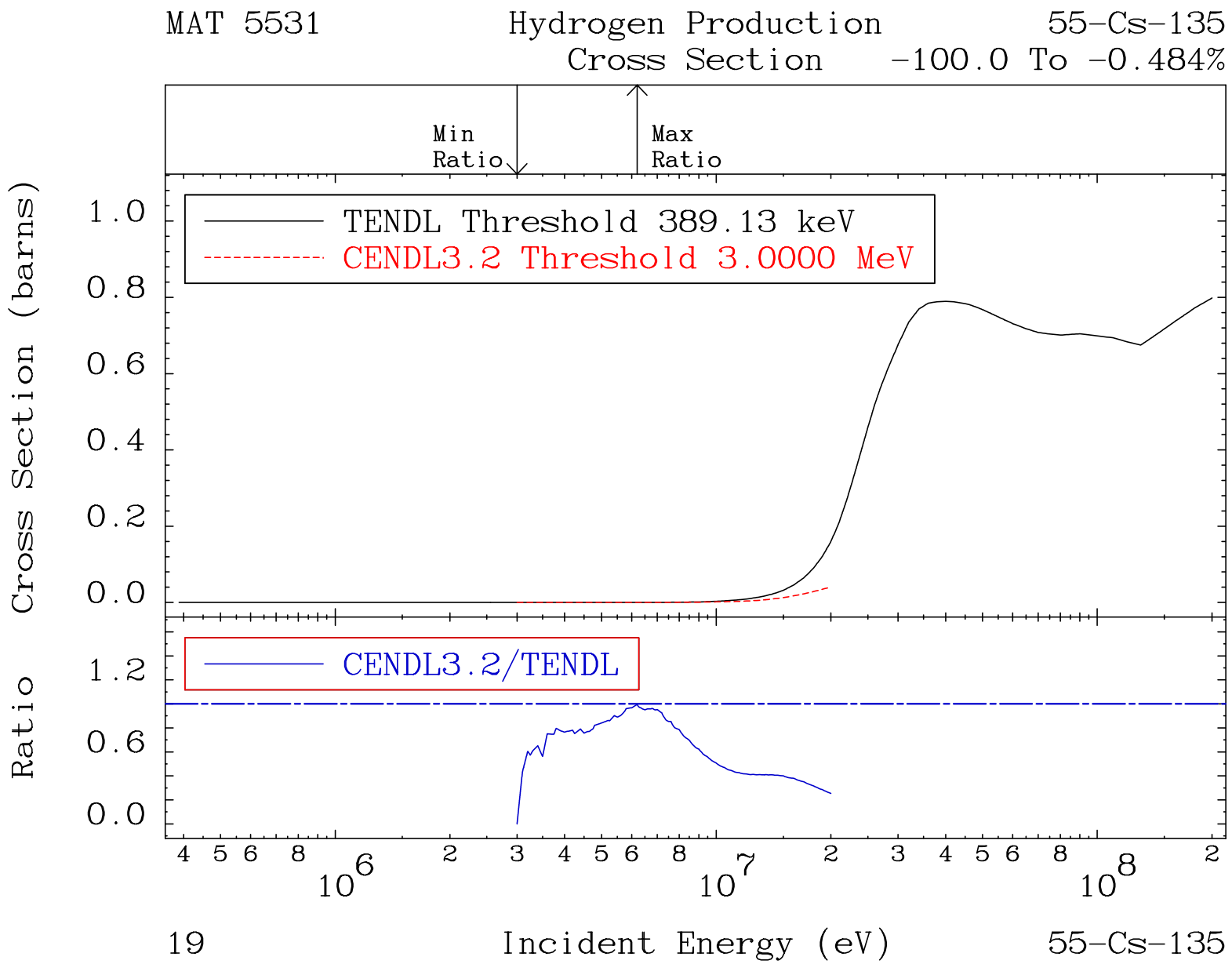

MAT 5531
(n,p)
55-Cs-135
Cross Section
-100.0 To -0.484%
Min Ratio
Max Ratio
TENDL Threshold 389.13 keV
CENDL3.2 Threshold 3.0000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
1.2
0.6
0.0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
14
Incident Energy (eV)
55-Cs-135

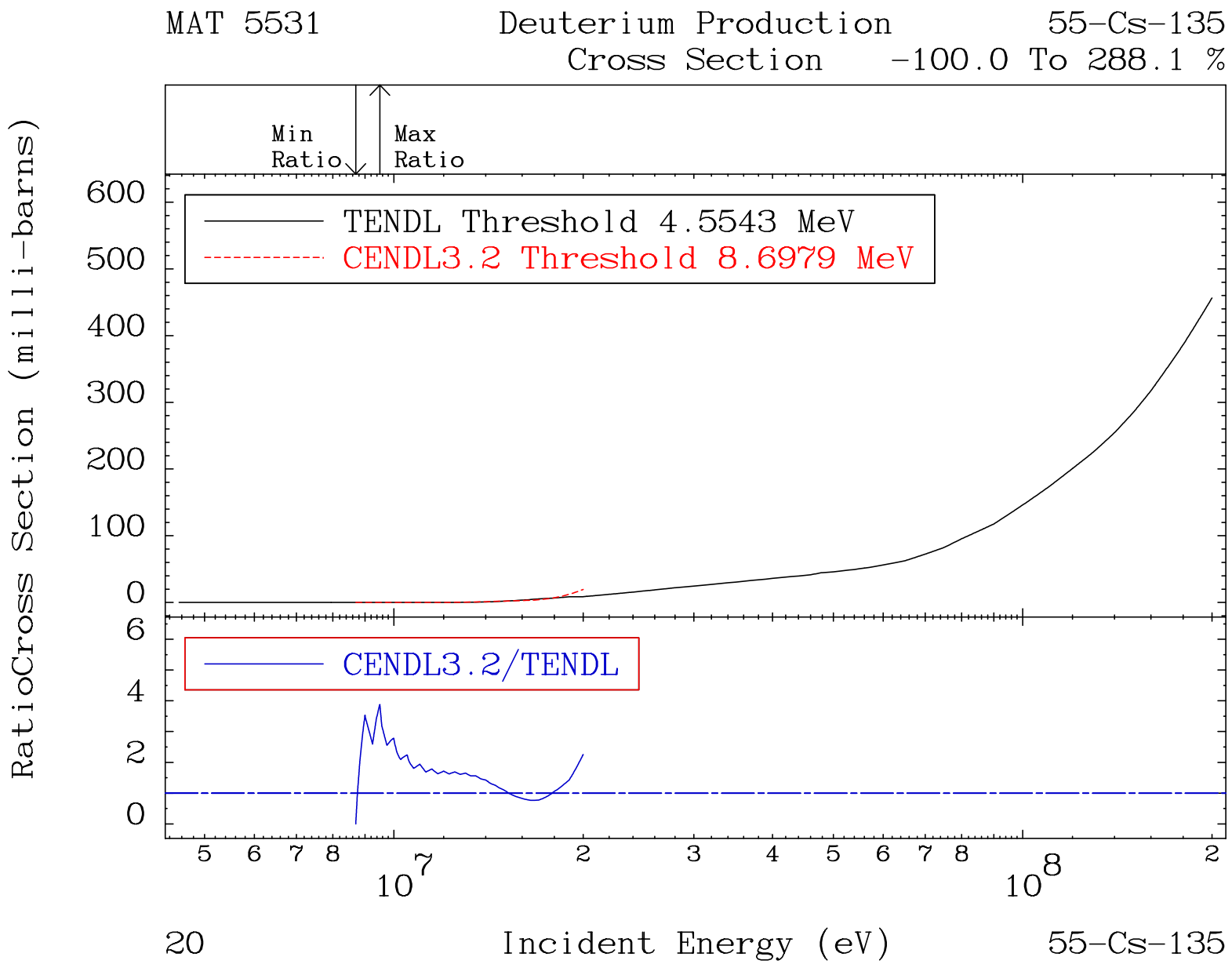

MAT 5531
(n,d)
55-Cs-135
Cross Section
-100.0 To 288.1 %
Min Ratio
Max Ratio
TENDL Threshold 4.5543 MeV
CENDL3.2 Threshold 8.6979 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
15
55-Cs-135

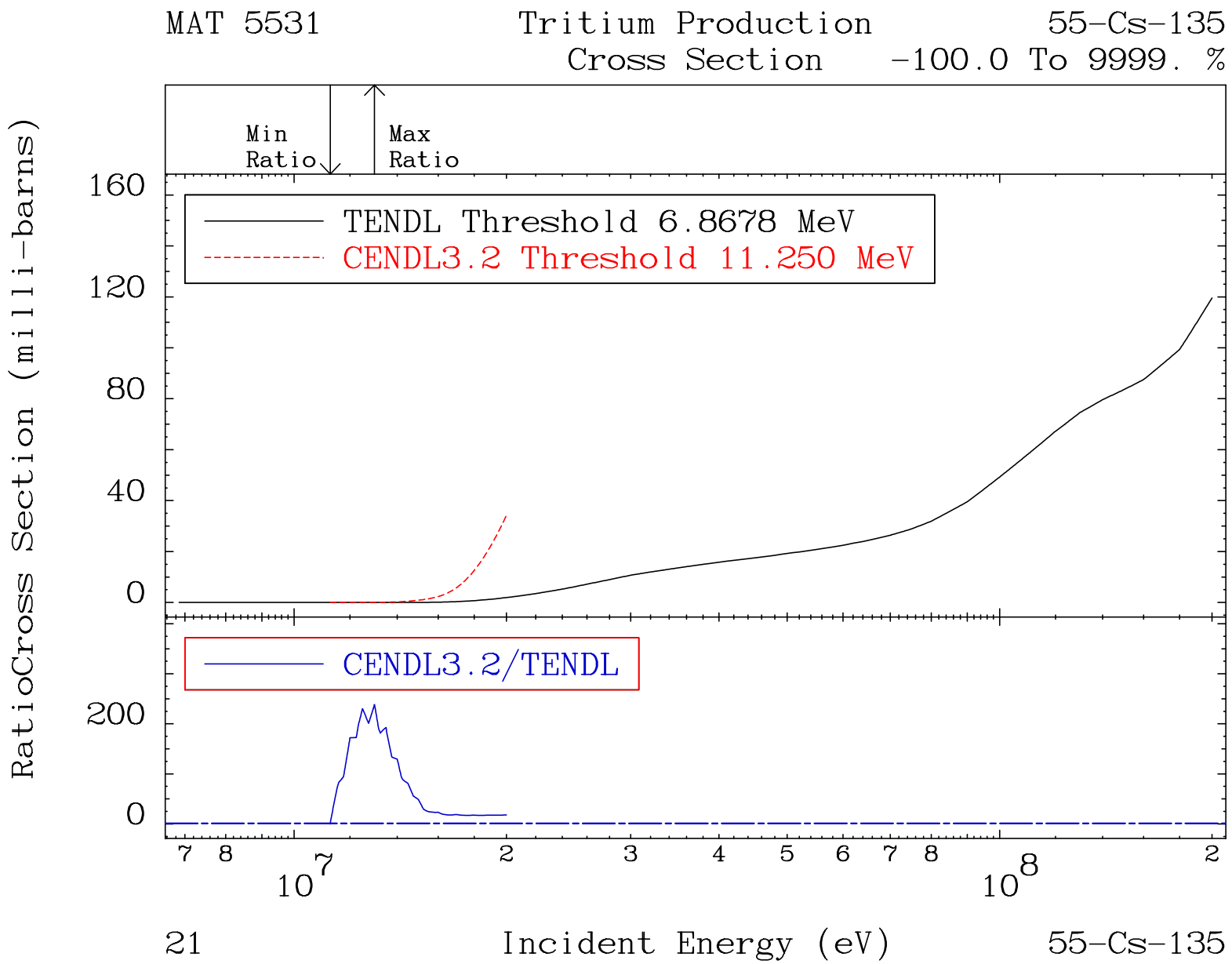

MAT 5531
(n,t)
Cross Section
55-Cs-135
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.8678 MeV
CENDL3.2 Threshold 11.250 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
200
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
16
Incident Energy (eV)
55-Cs-135

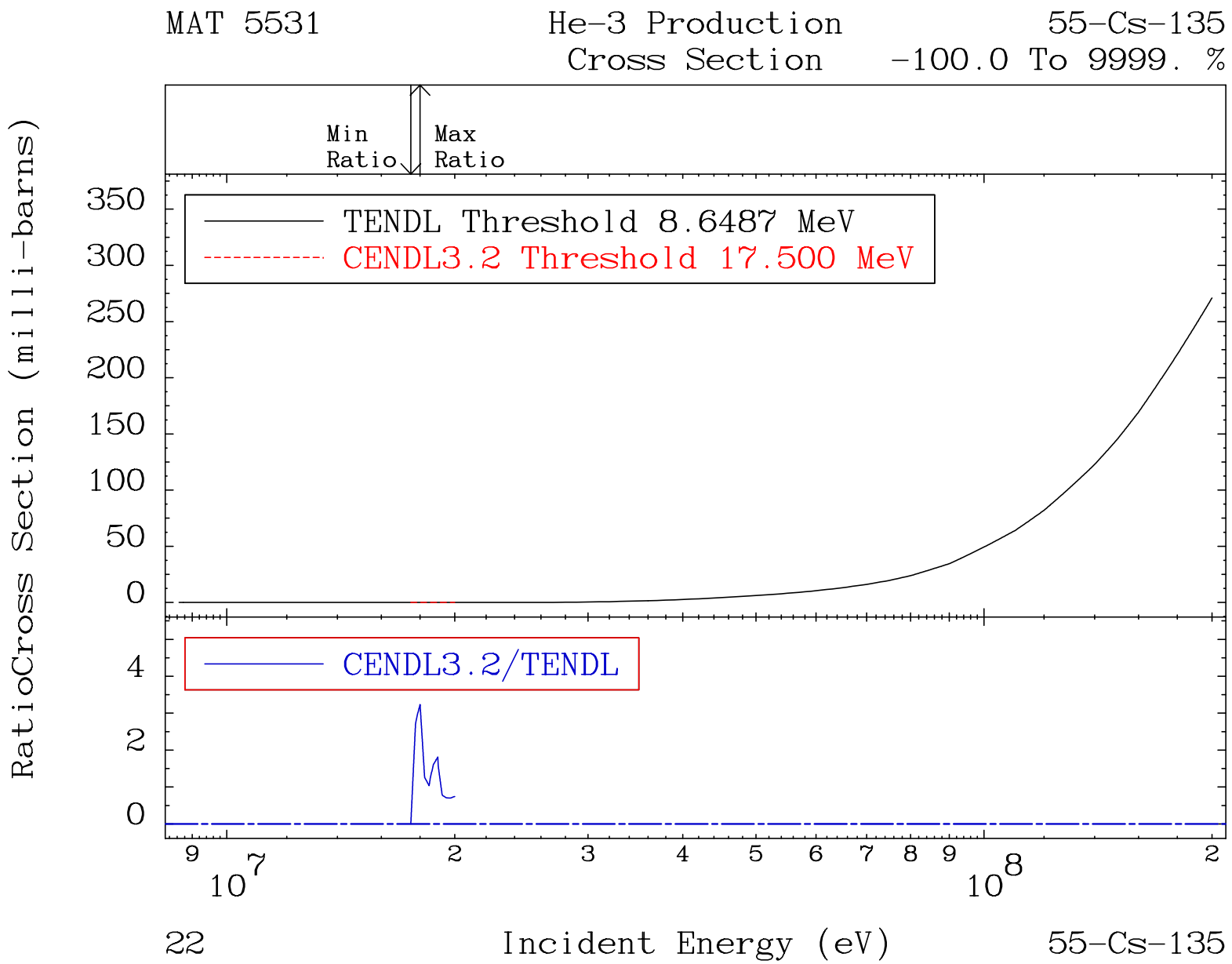

MAT 5531
(n,He-3)
Cross Section
55-Cs-135
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 8.6487 MeV
CENDL3.2 Threshold 17.500 MeV
CENDL3.2/TENDL
RatioCross Section (micro-barns)
400
300
200
100
0
4
2
0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
17
Incident Energy (eV)
55-Cs-135

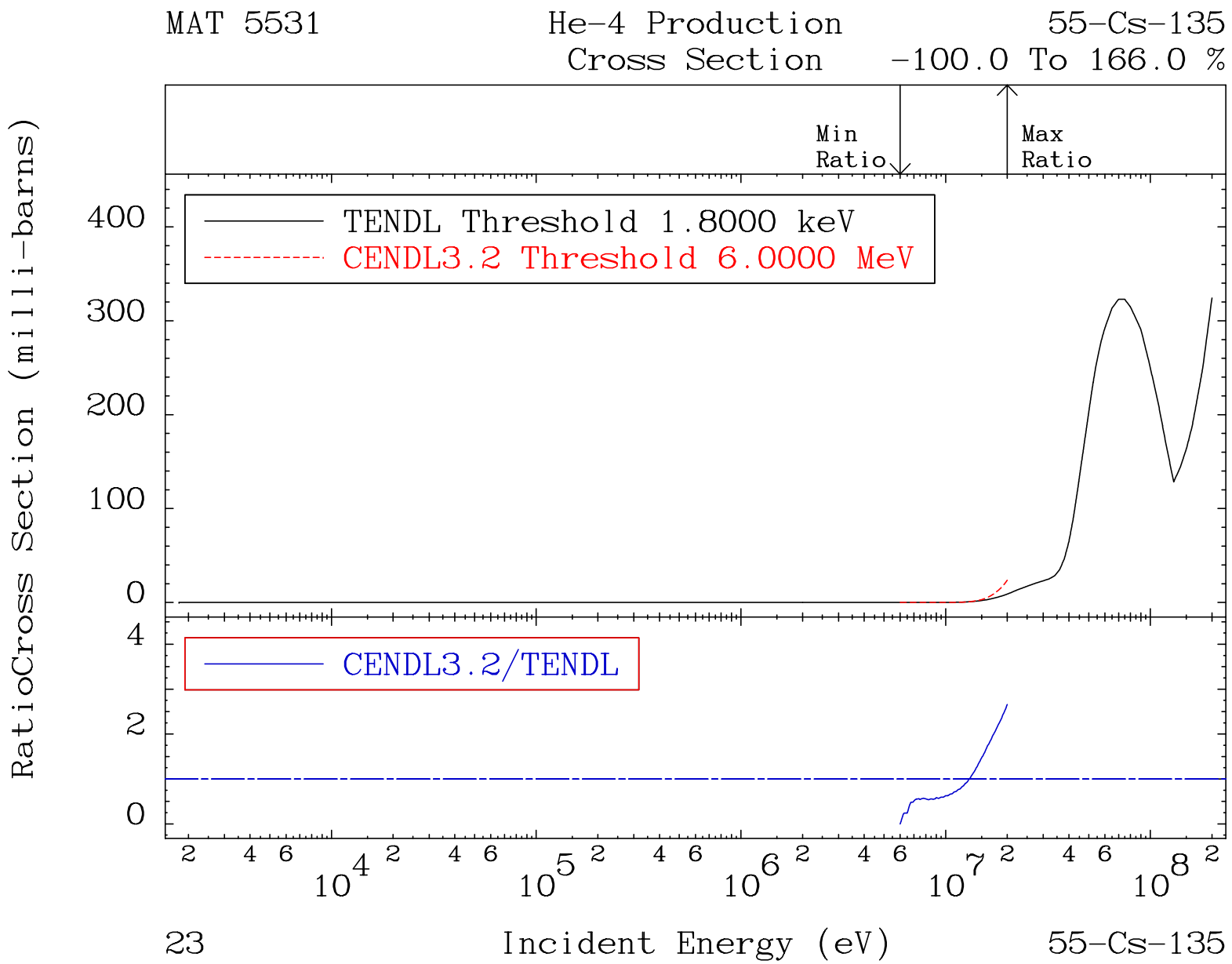

MAT 5531
(n,α)
Cross Section
55-Cs-135
-100.0 To 171.8 %
Min Ratio
Max Ratio
TENDL Threshold 1.8000 keV
CENDL3.2 Threshold 6.0000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
4
2
0
2 4 6 10^4 2 4 6 10^5 2 4 6 10^6 2 4 6 10^7 2 4 6 10^8 2
18
Incident Energy (eV)
55-Cs-135

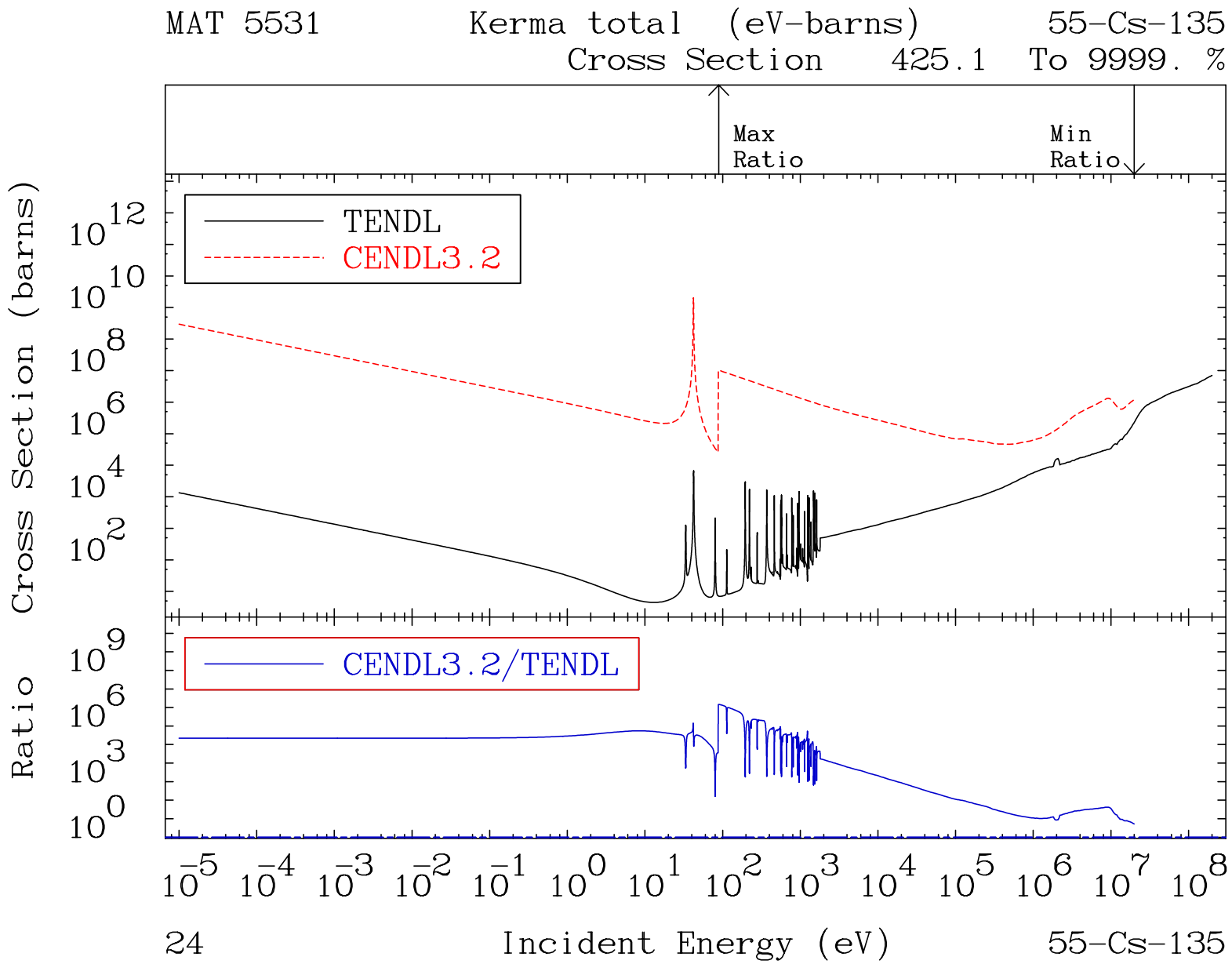

MAT 5531
Hydrogen Production
55-Cs-135
Cross Section
-100.0 To -0.484%
Min Ratio
Max Ratio
TENDL Threshold 389.13 keV
CENDL3.2 Threshold 3.0000 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
1.2
0.6
0.0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
19
Incident Energy (eV)
55-Cs-135

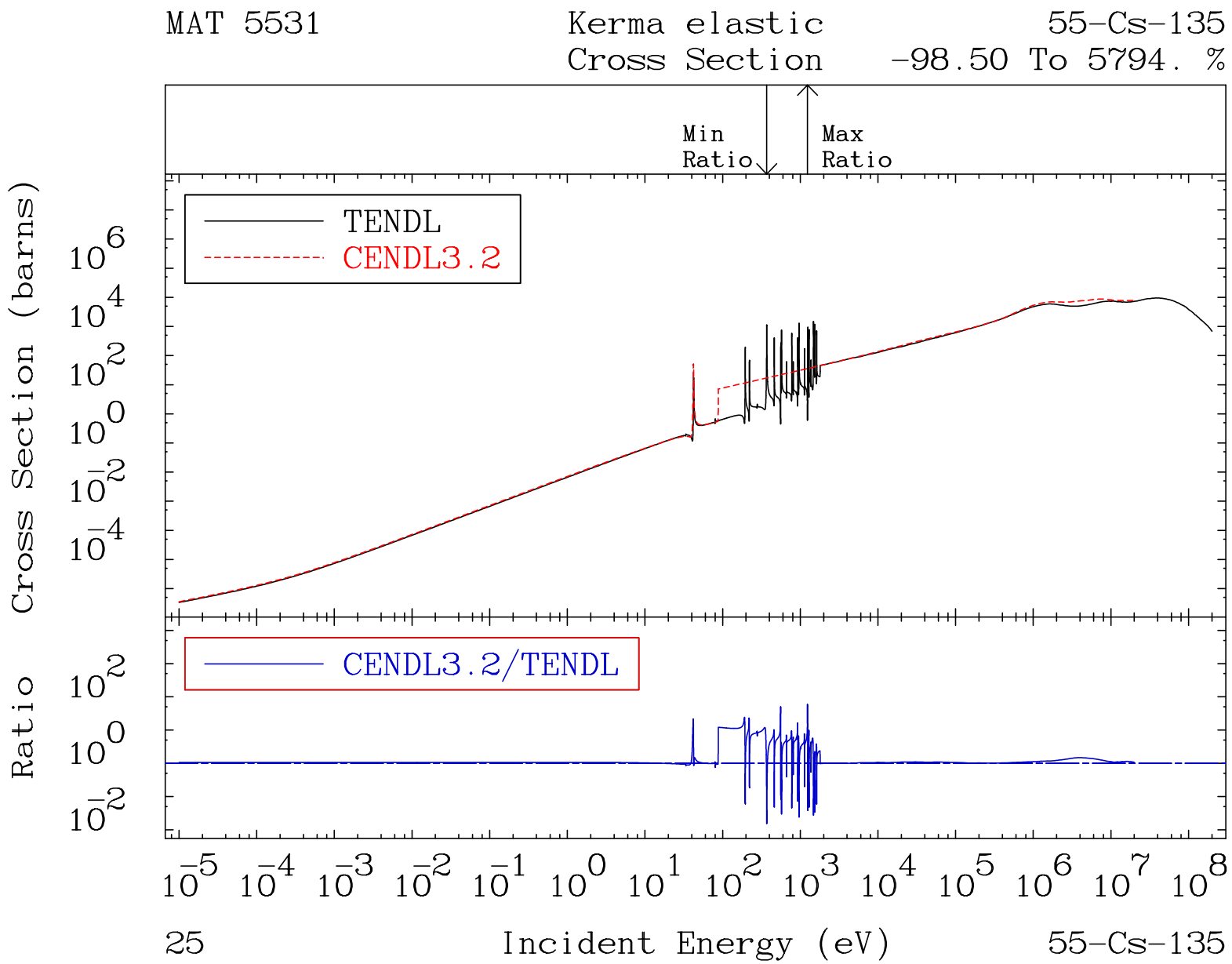

MAT 5531
Deuterium Production
55-Cs-135
Cross Section -100.0 To 288.1 %
Min Ratio
Max Ratio
TENDL Threshold 4.5543 MeV
CENDL3.2 Threshold 8.6979 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
6
4
2
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
55-Cs-135

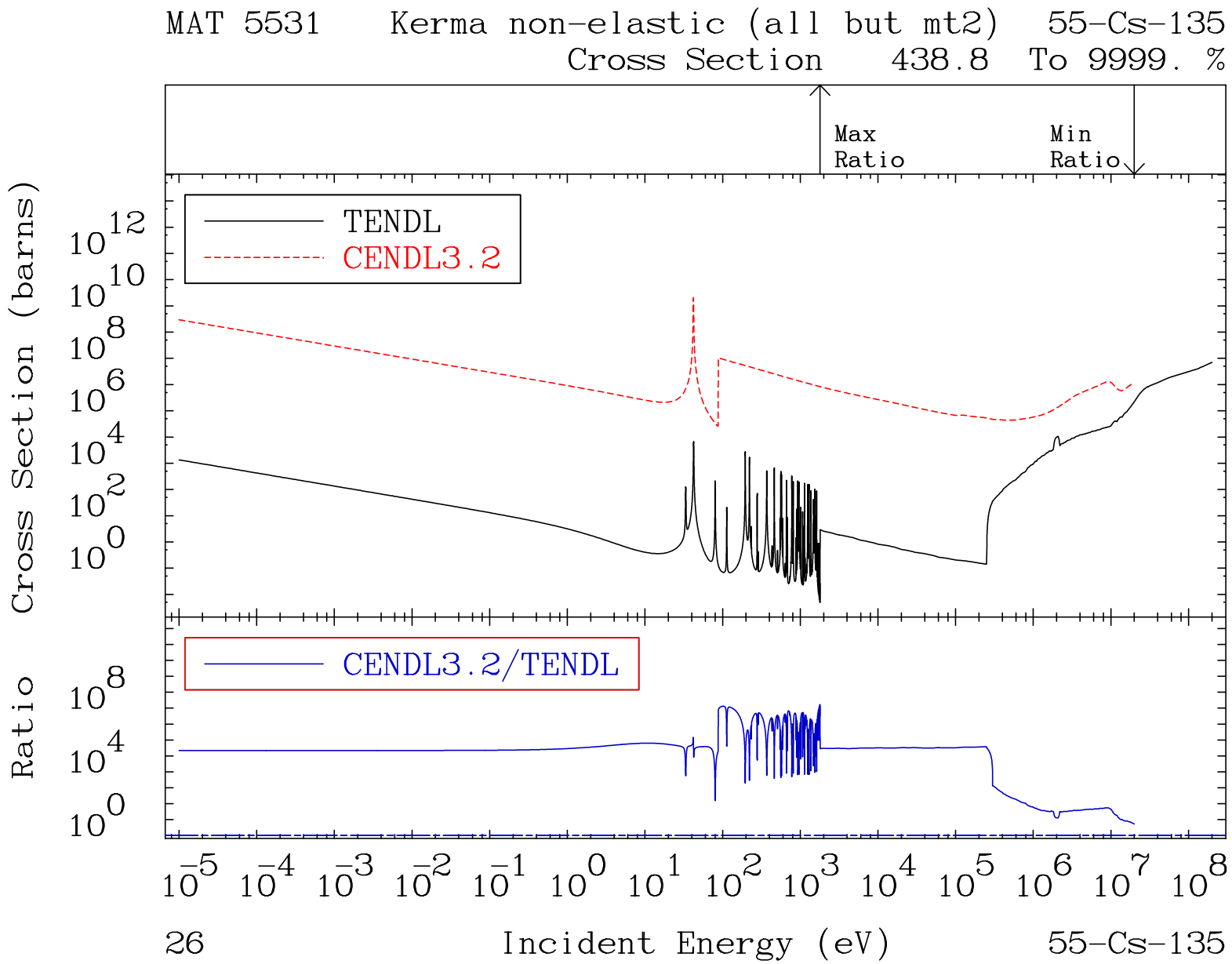

MAT 5531
Tritium Production
55-Cs-135
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.8678 MeV
CENDL3.2 Threshold 11.250 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
200
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
55-Cs-135

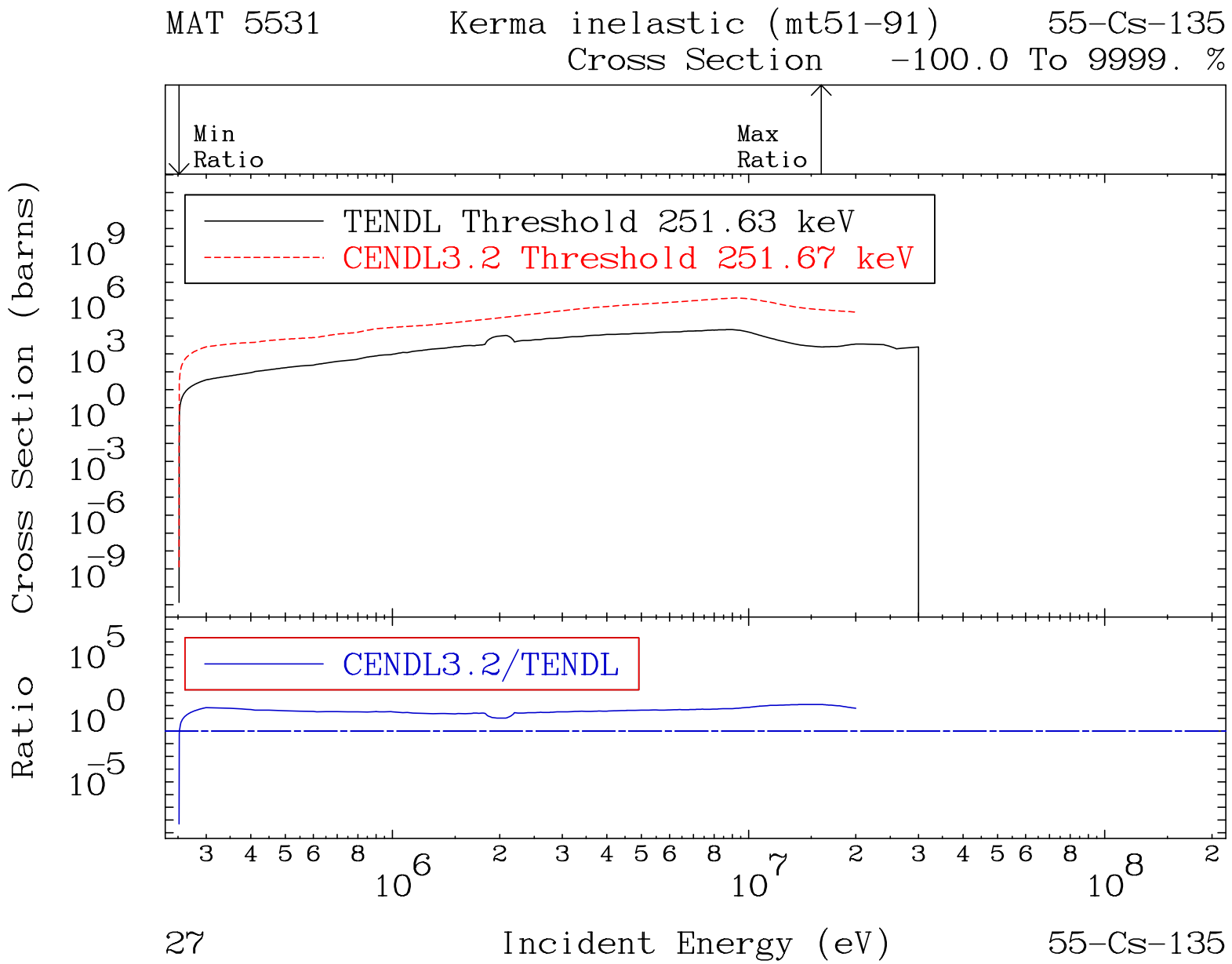

MAT 5531
He-3 Production
55-Cs-135
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 8.6487 MeV
CENDL3.2 Threshold 17.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
4
2
0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
22
Incident Energy (eV)
55-Cs-135

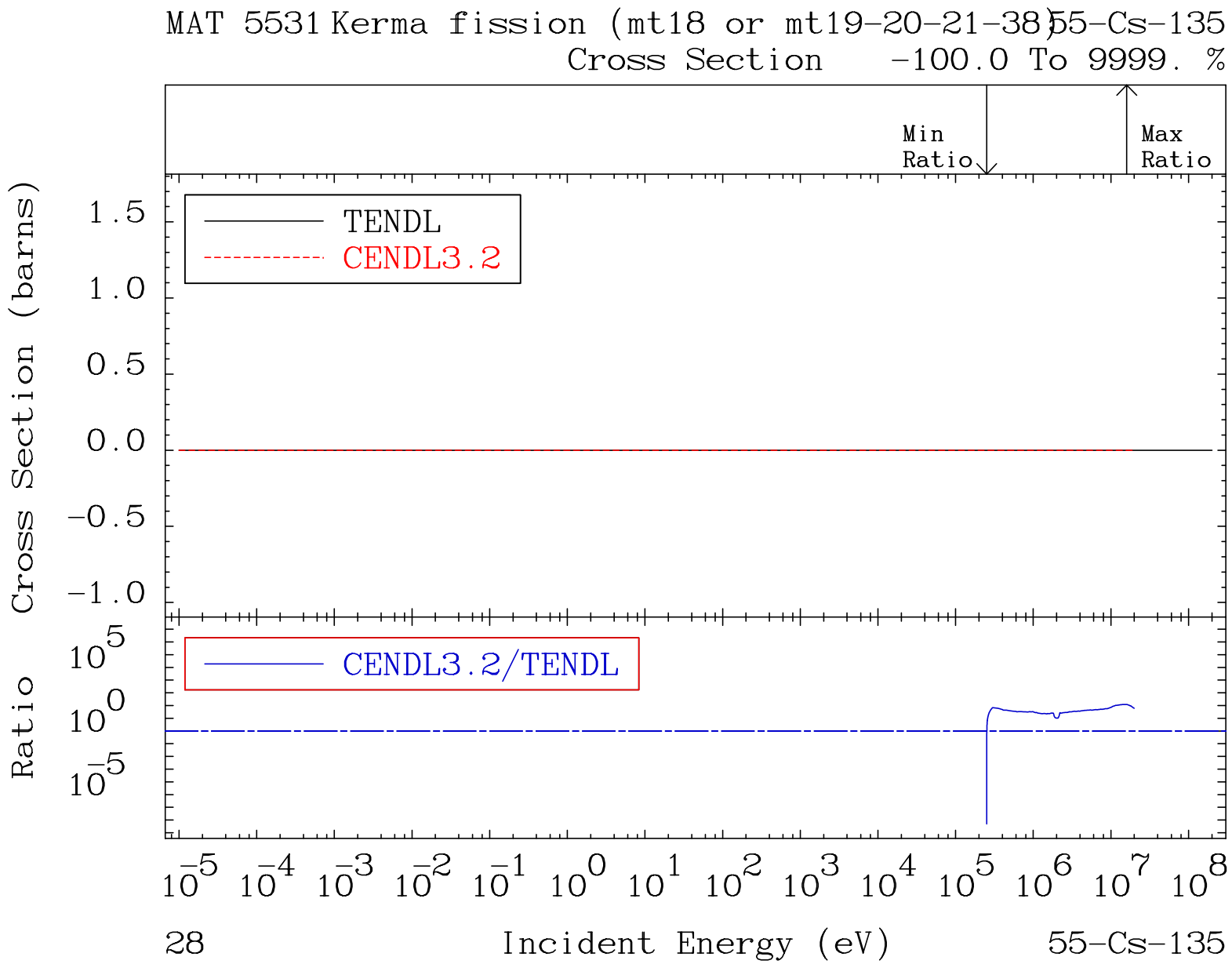

MAT 5531
He-4 Production
Cross Section
55-Cs-135
-100.0 To 166.0 %
Min Ratio
Max Ratio
TENDL Threshold 1.8000 keV
CENDL3.2 Threshold 6.0000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
4
2
0
2 4 6 10^4 2 4 6 10^5 2 4 6 10^6 2 4 6 10^7 2 4 6 10^8 2
23
Incident Energy (eV)
55-Cs-135

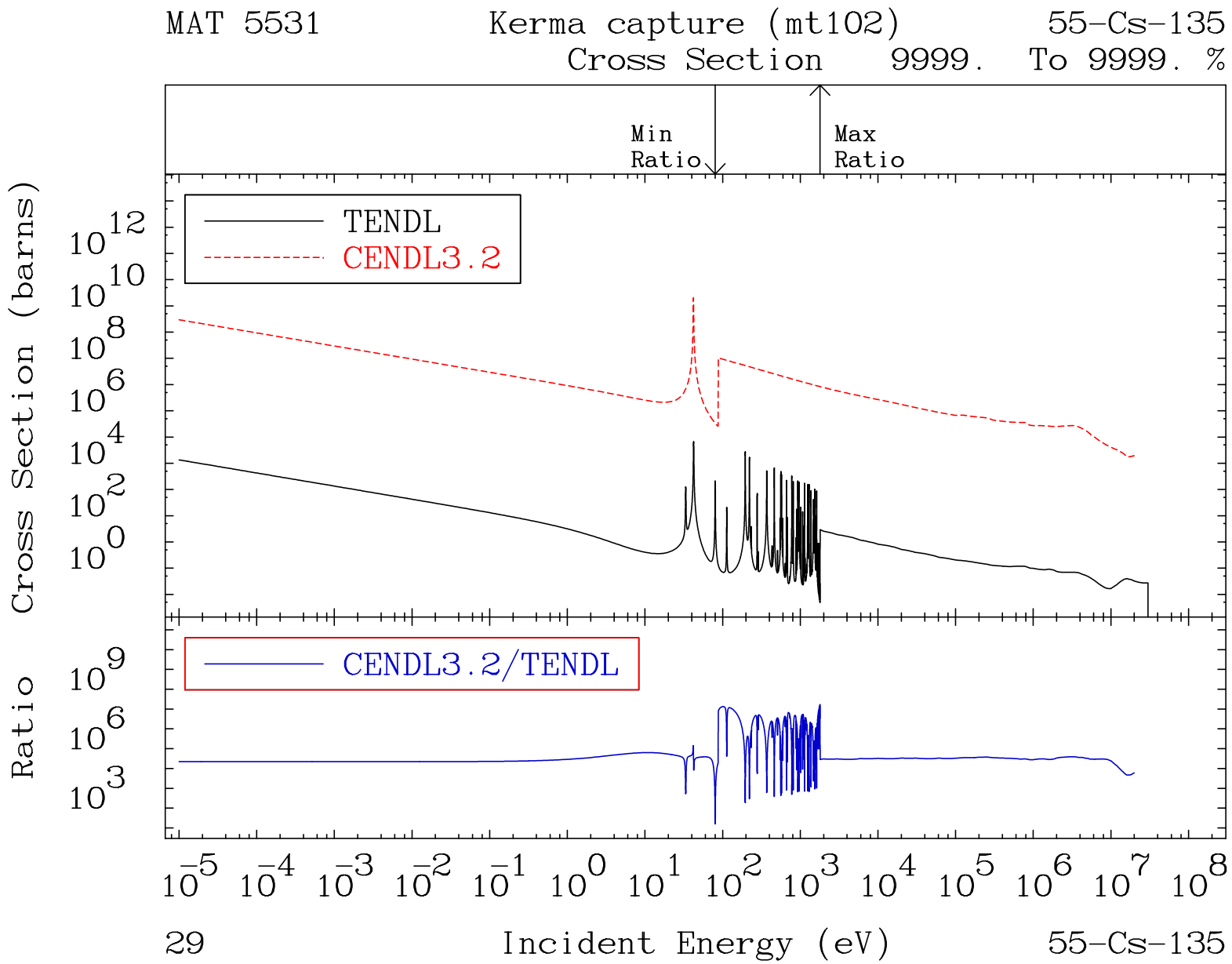

MAT 5531
Kerma total (eV-barns)
55-Cs-135
Cross Section 425.1 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
24
55-Cs-135

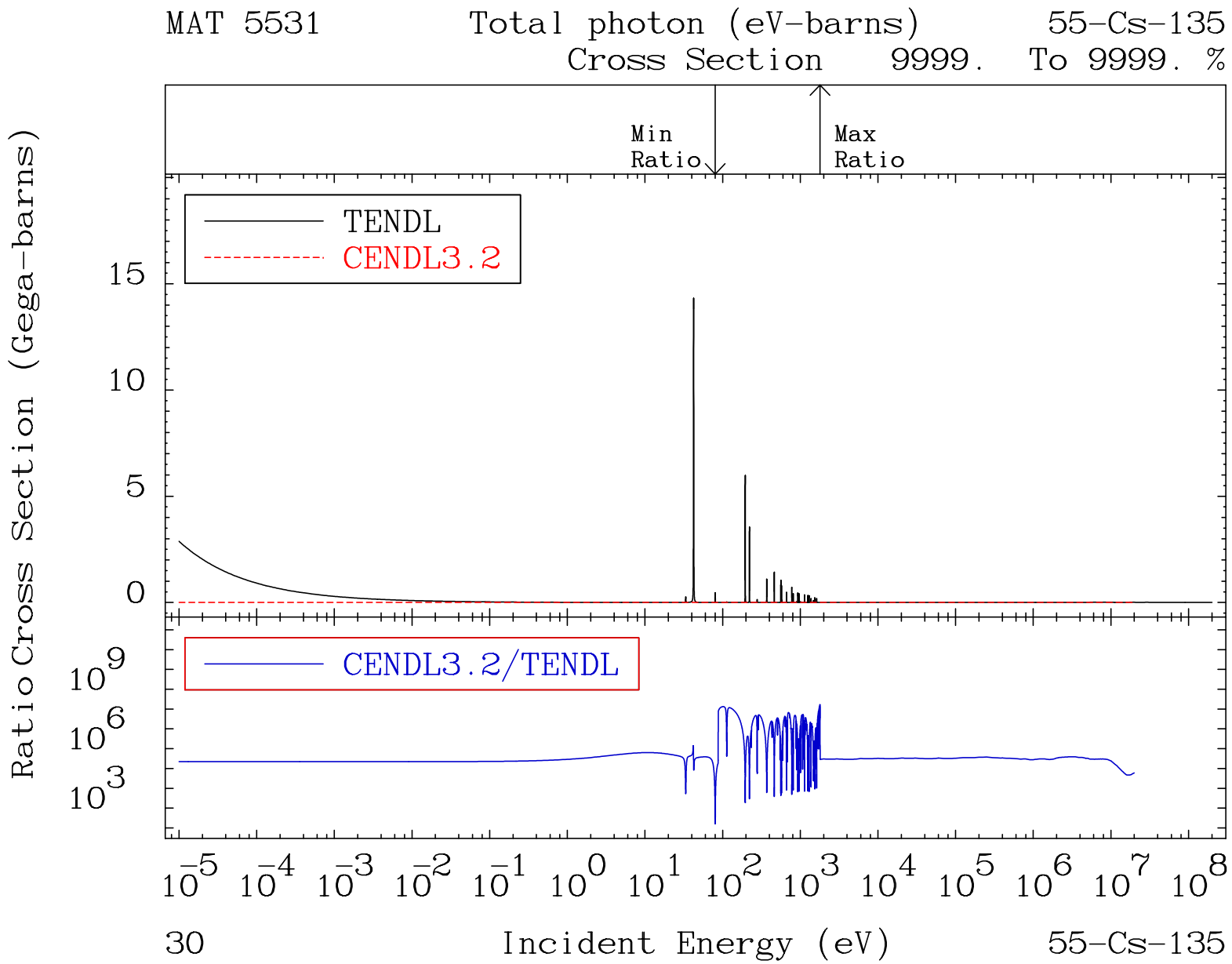

MAT 5531
Kerma elastic
55-Cs-135
Cross Section
-98.50 To 5794. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
Ratio
CENDL3.2/TENDL
Incident Energy (eV)
25
55-Cs-135

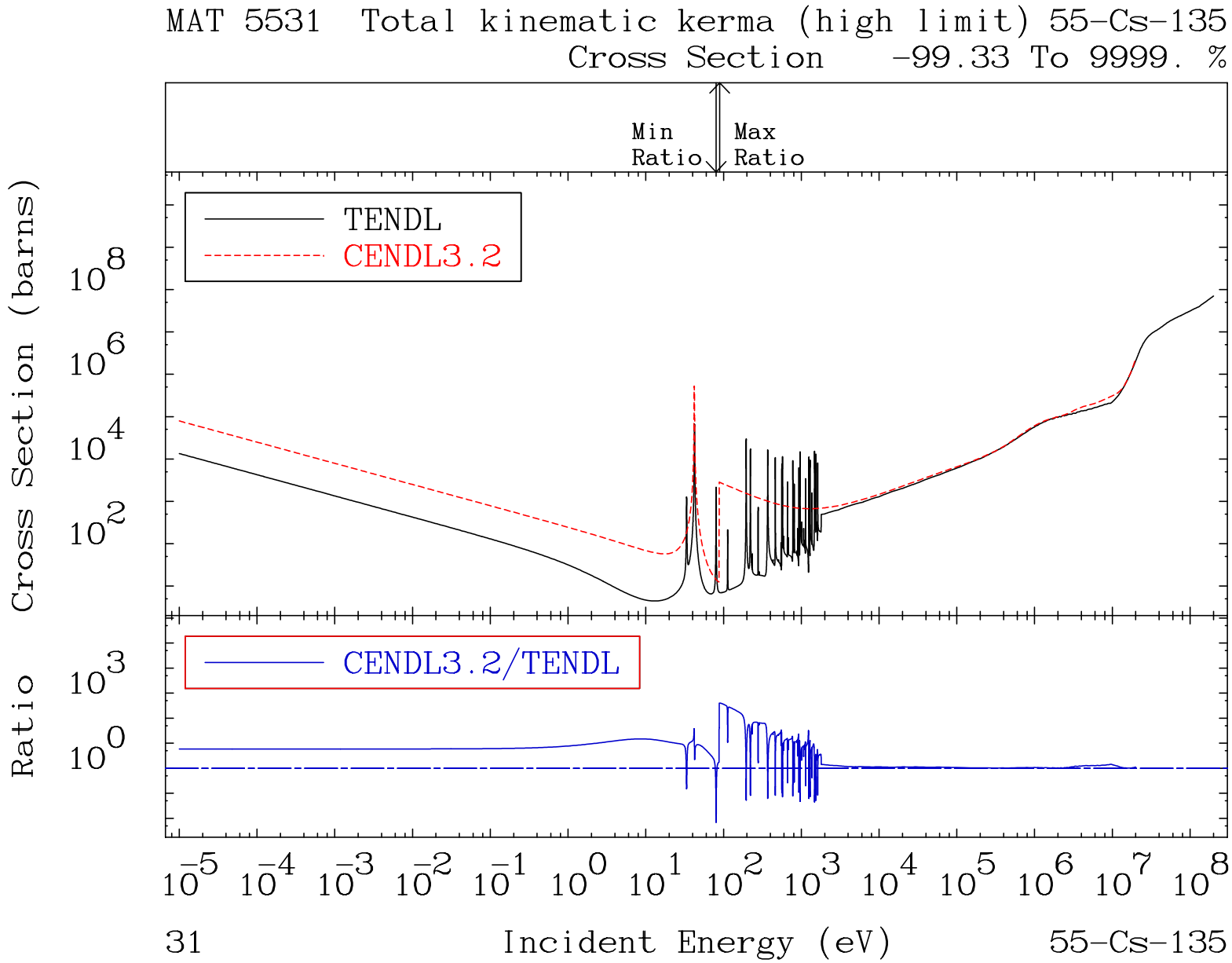

MAT 5531 Kerma non-elastic (all but mt2) 55-Cs-135
Cross Section 438.8 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
26
55-Cs-135

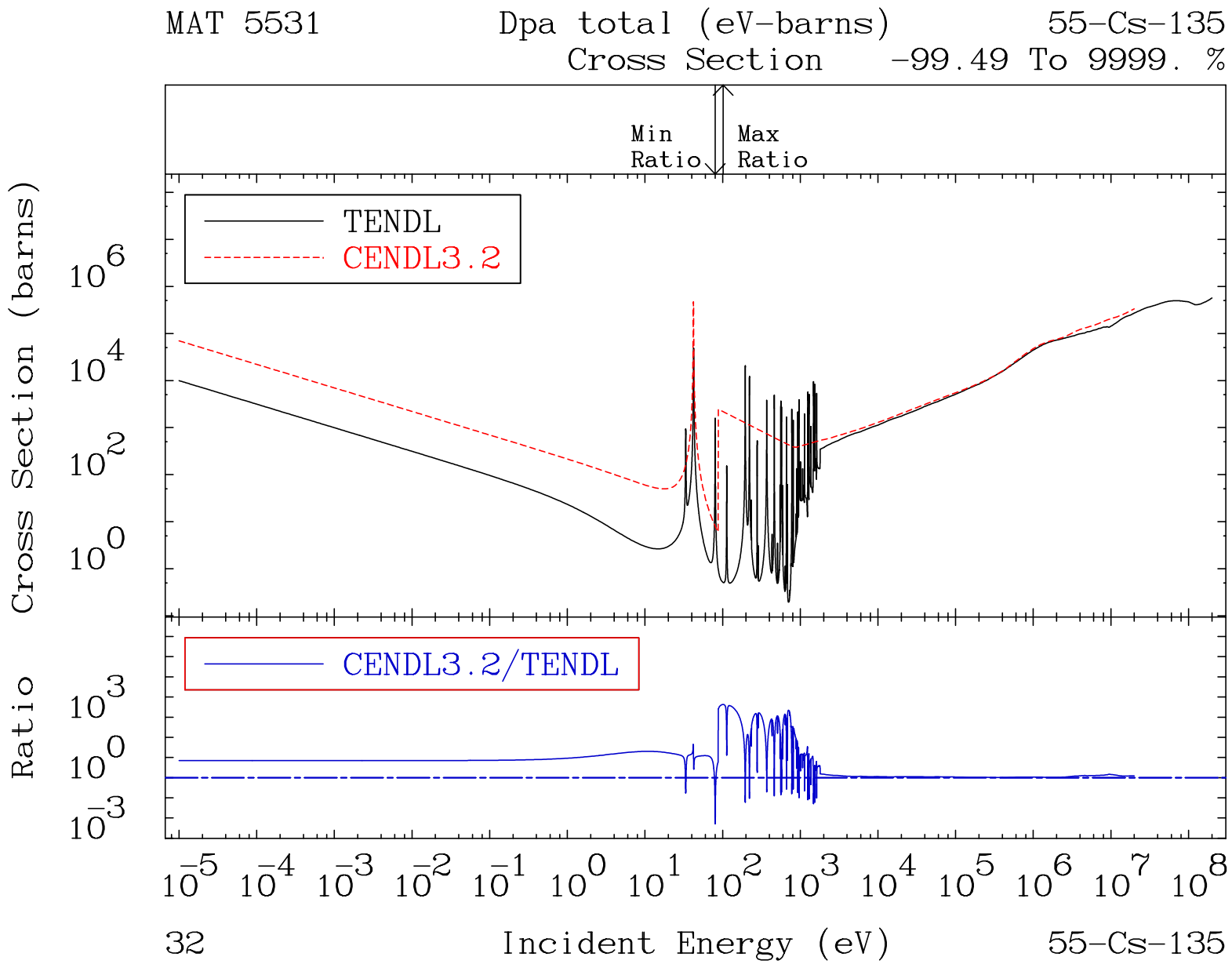

MAT 5531
Kerma inelastic (mt51-91)
55-Cs-135
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 251.63 keV
CENDL3.2 Threshold 251.67 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
27
55-Cs-135

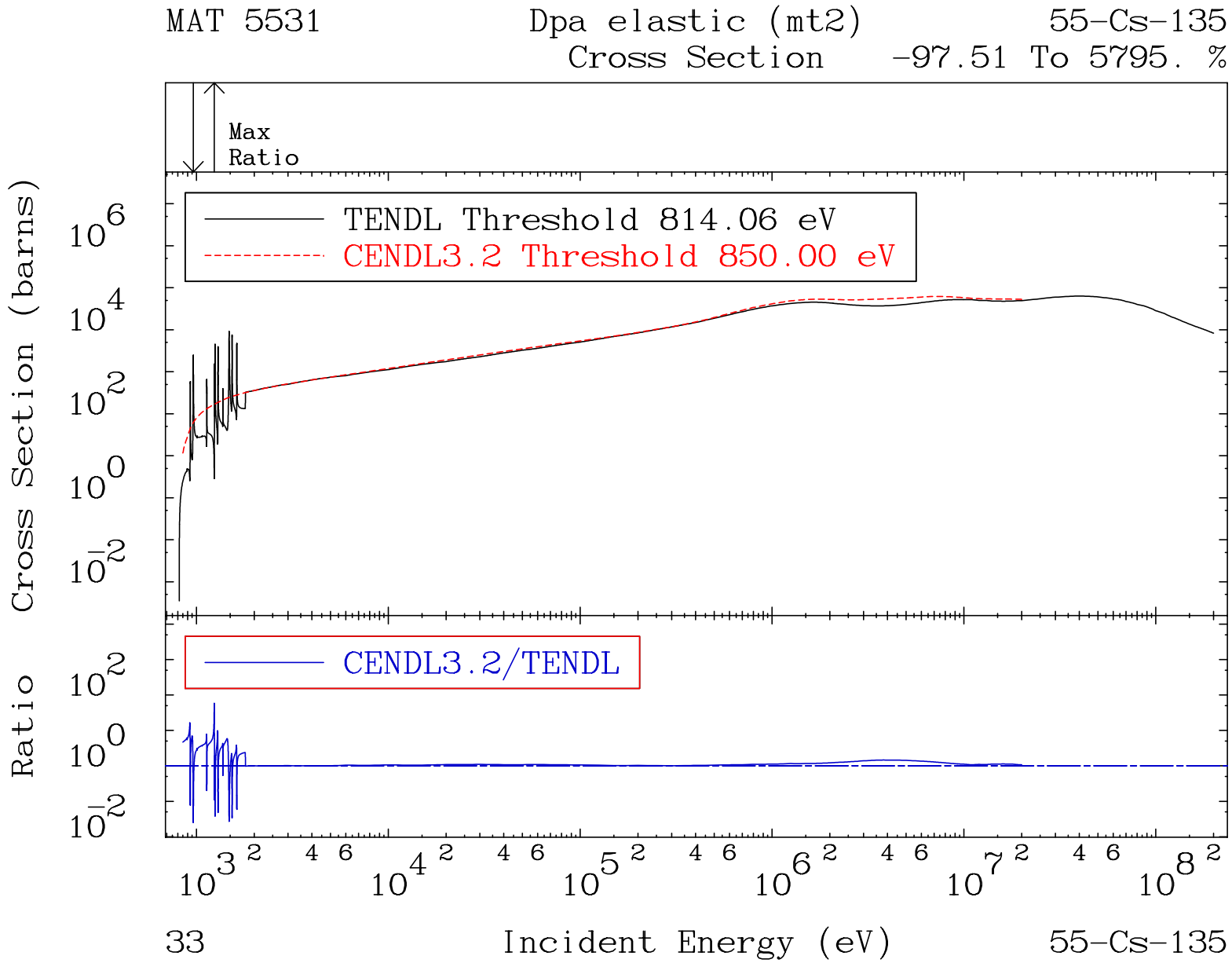

MAT 5531 Kerma fission (mt18 or mt19-20-21-38) 55-Cs-135
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{5}
10^{0}
10^{-5}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
28
Incident Energy (eV)
55-Cs-135

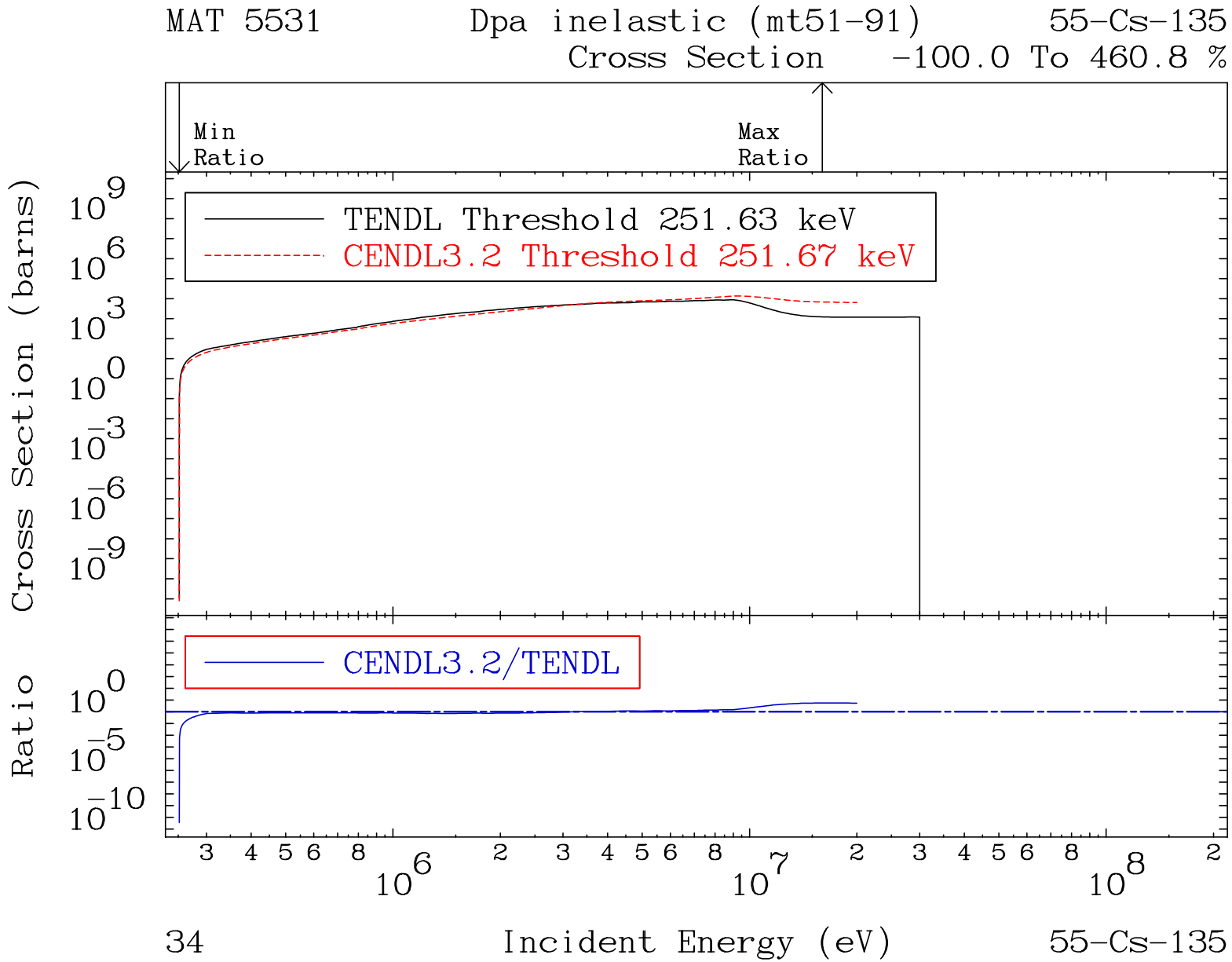

MAT 5531
Kerma capture (mt102)
55-Cs-135
Cross Section 9999. To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
29
55-Cs-135

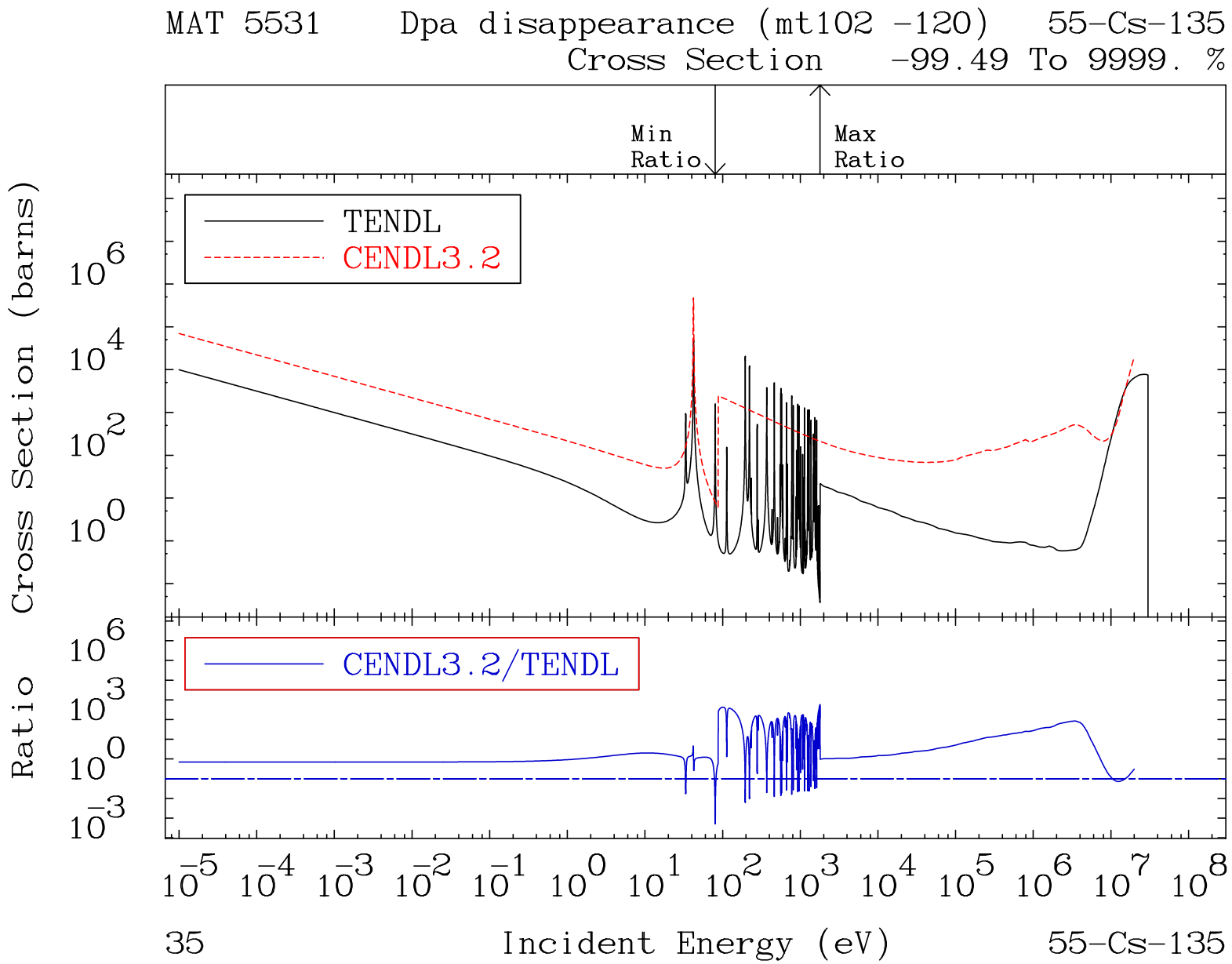

MAT 5531
Total photon (eV-barns)
55-Cs-135
Cross Section 9999. To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Ratio Cross Section (Giga-barns)
15
10
5
0
10^{9}
10^{6}
10^{3}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
Incident Energy (eV)

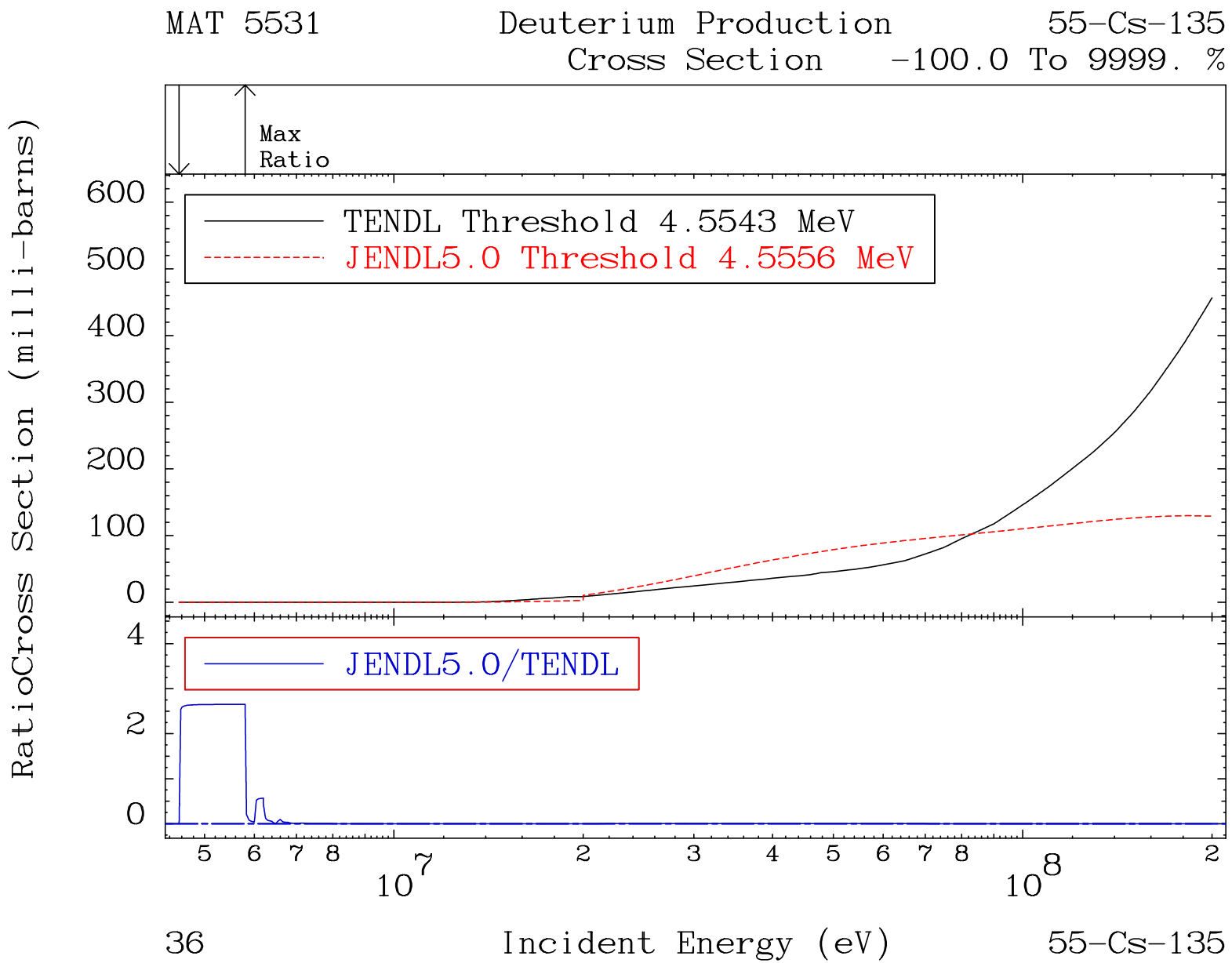

MAT 5531 Total kinematic kerma (high limit) 55-Cs-135
Cross Section -99.33 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
10^8
10^6
10^4
10^2
CENDL3.2/TENDL
Ratio
10^3
10^0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
31
Incident Energy (eV)
55-Cs-135

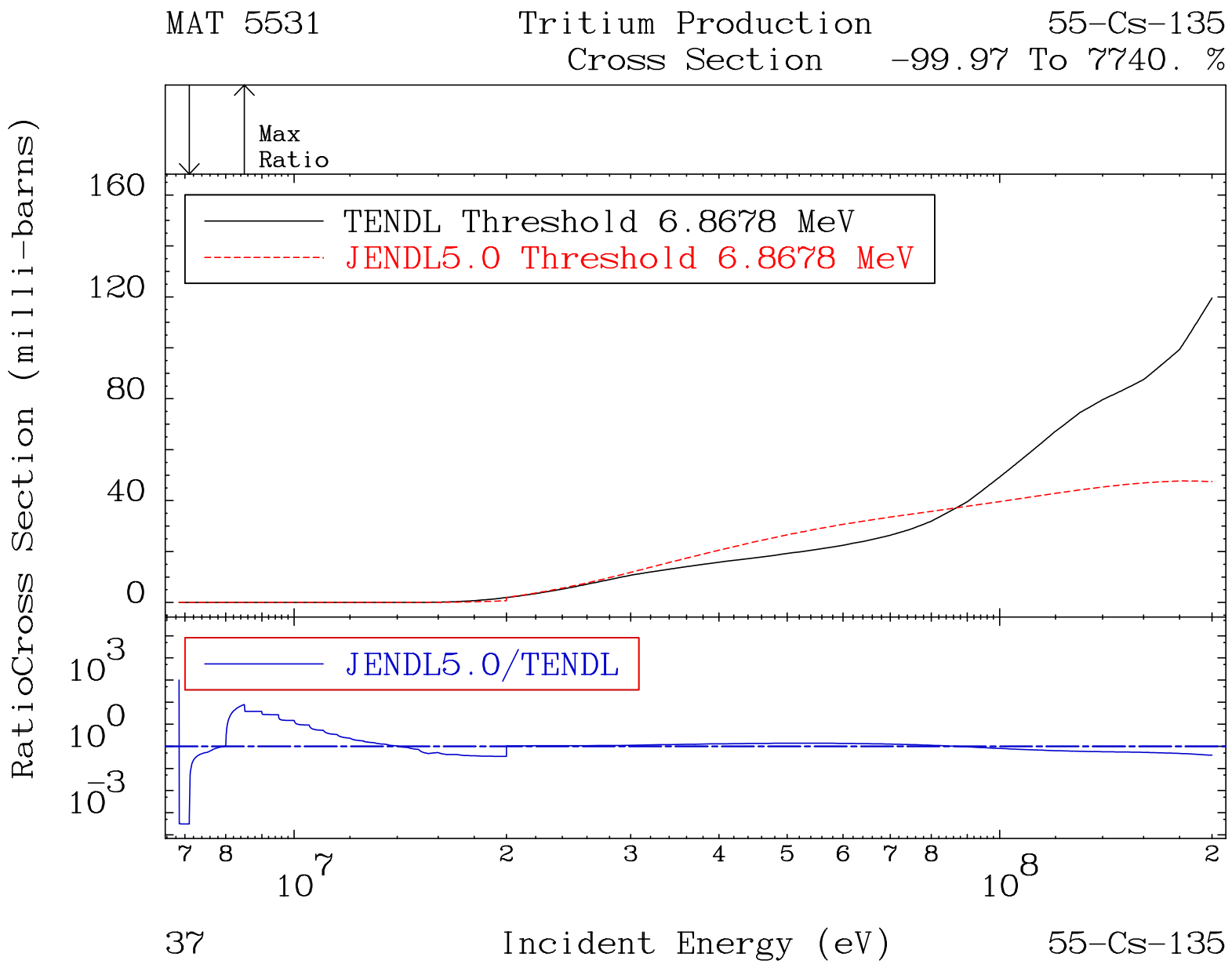

MAT 5531
Dpa total (eV-barns)
55-Cs-135
Cross Section -99.49 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
32
55-Cs-135

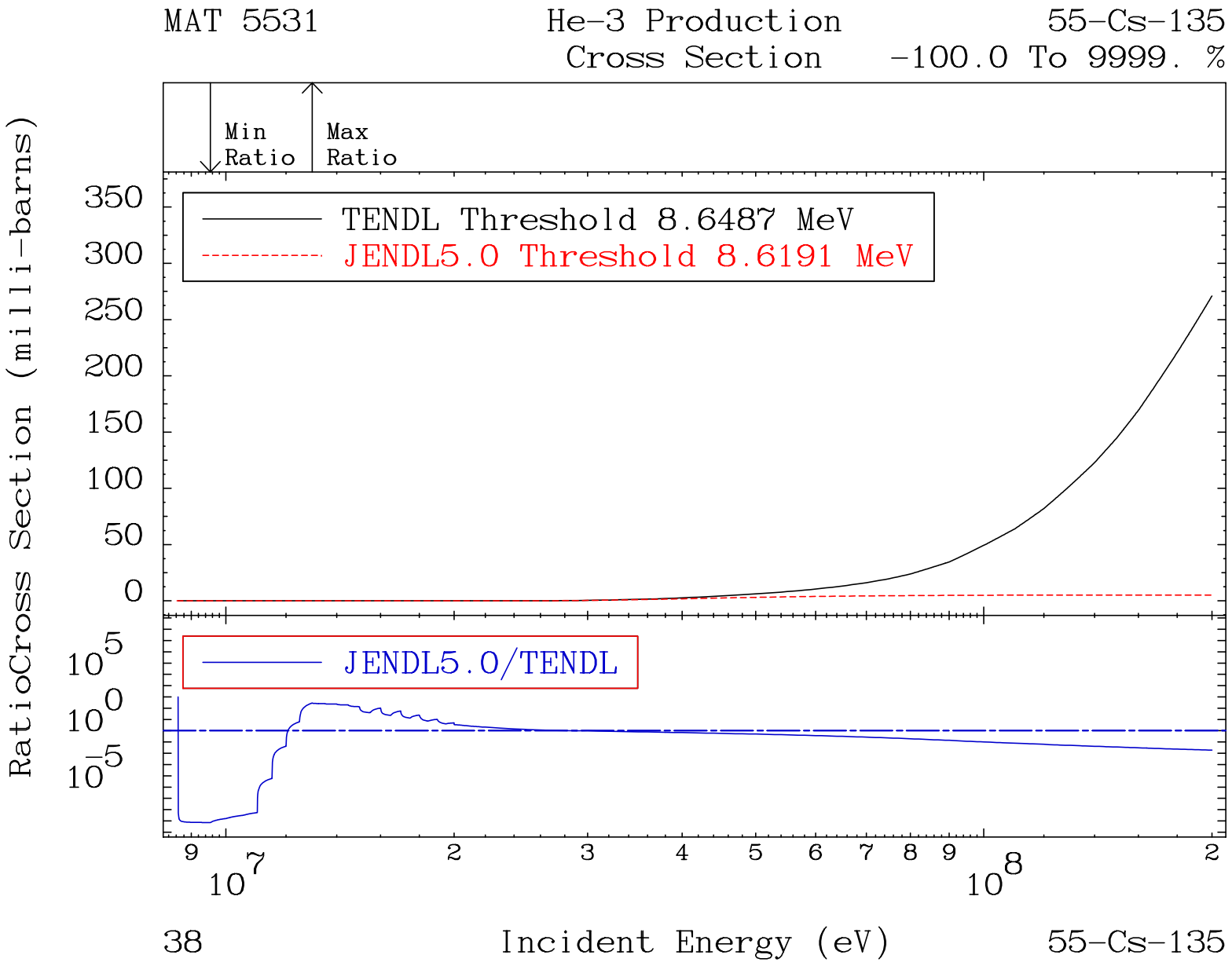

MAT 5531
Dpa elastic (mt2)
Cross Section
55-Cs-135
-97.51 To 5795. %
Max
Ratio
TENDL Threshold 814.06 eV
CENDL3.2 Threshold 850.00 eV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
33
55-Cs-135

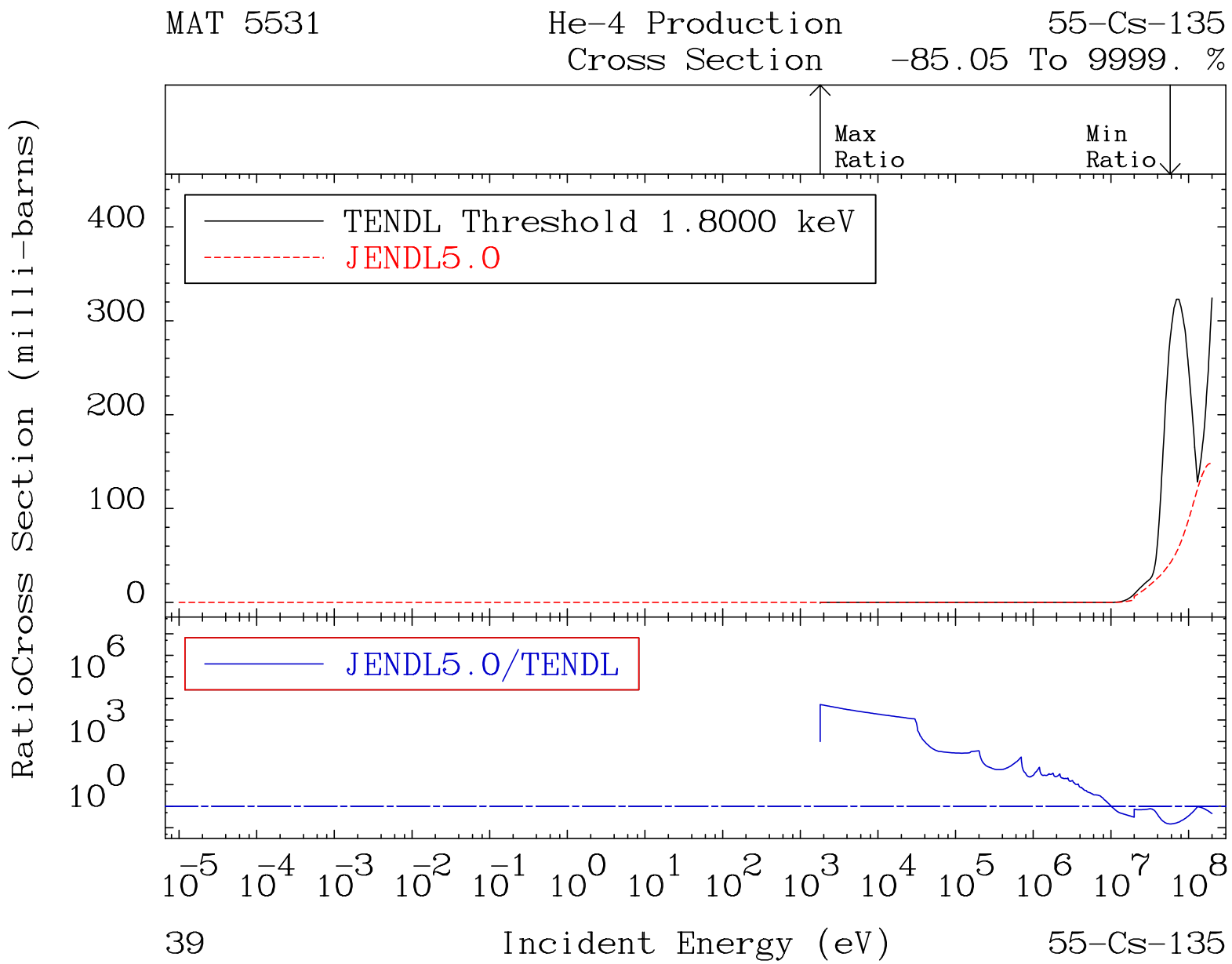

MAT 5531
Dpa inelastic (mt51-91)
55-Cs-135
Cross Section
-100.0 To 460.8 %
Min Ratio
Max Ratio
TENDL Threshold 251.63 keV
CENDL3.2 Threshold 251.67 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
34
55-Cs-135

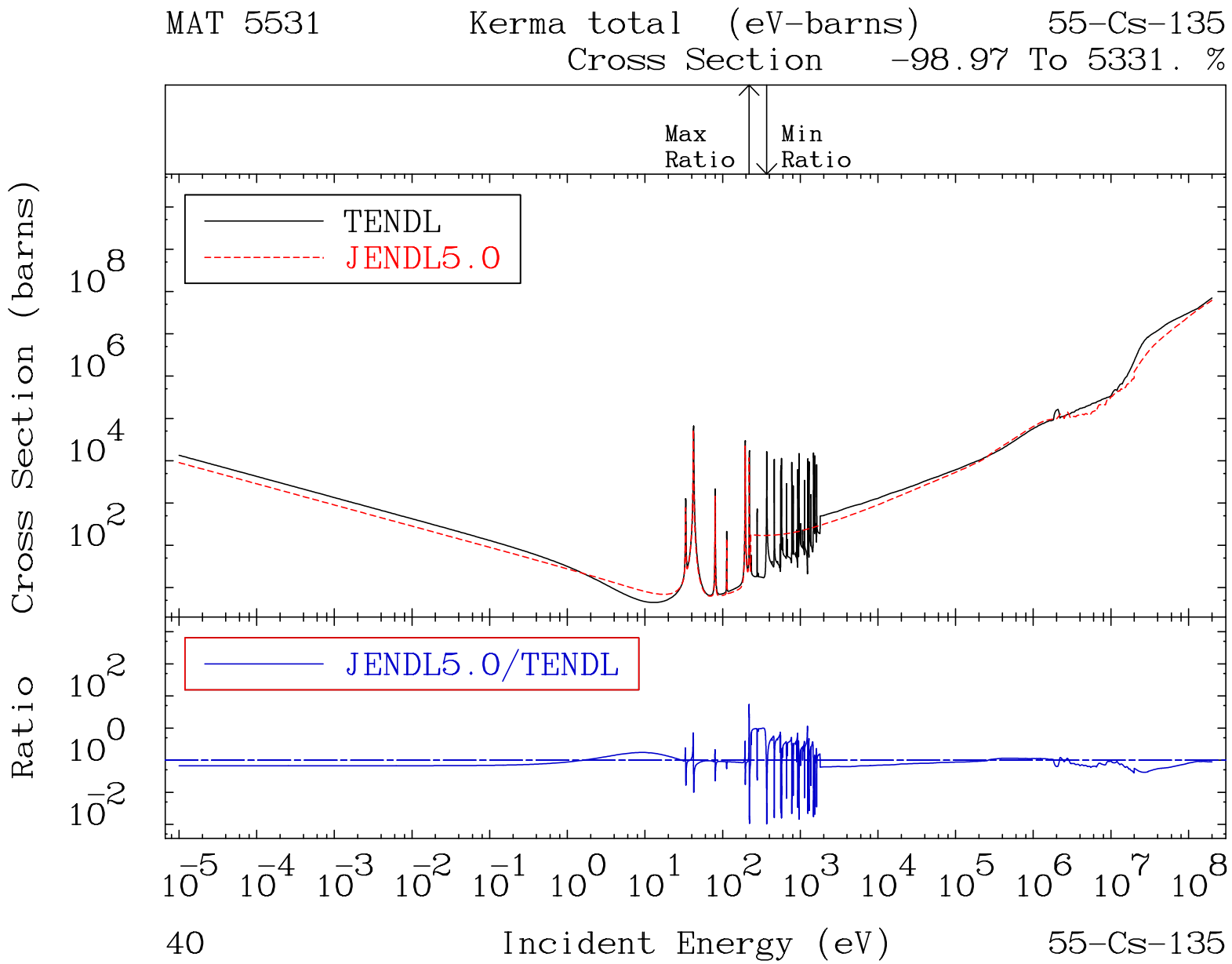

MAT 5531 Dpa disappearance (mt102 -120) 55-Cs-135
Cross Section -99.49 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
35
55-Cs-135

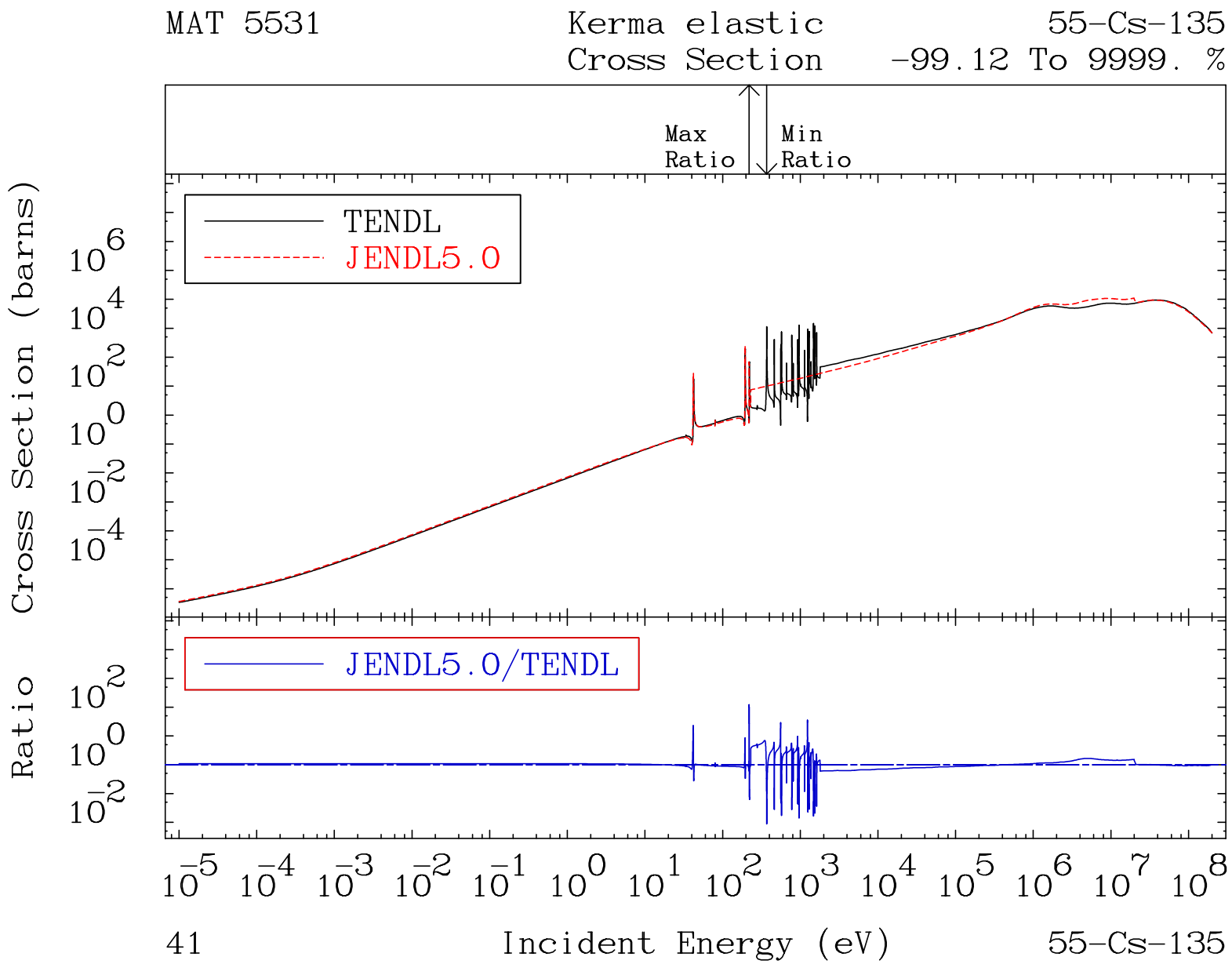

MAT 5531
Deuterium Production
55-Cs-135
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 4.5543 MeV
JENDL5.0 Threshold 4.5556 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
4
2
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
36
Incident Energy (eV)
55-Cs-135

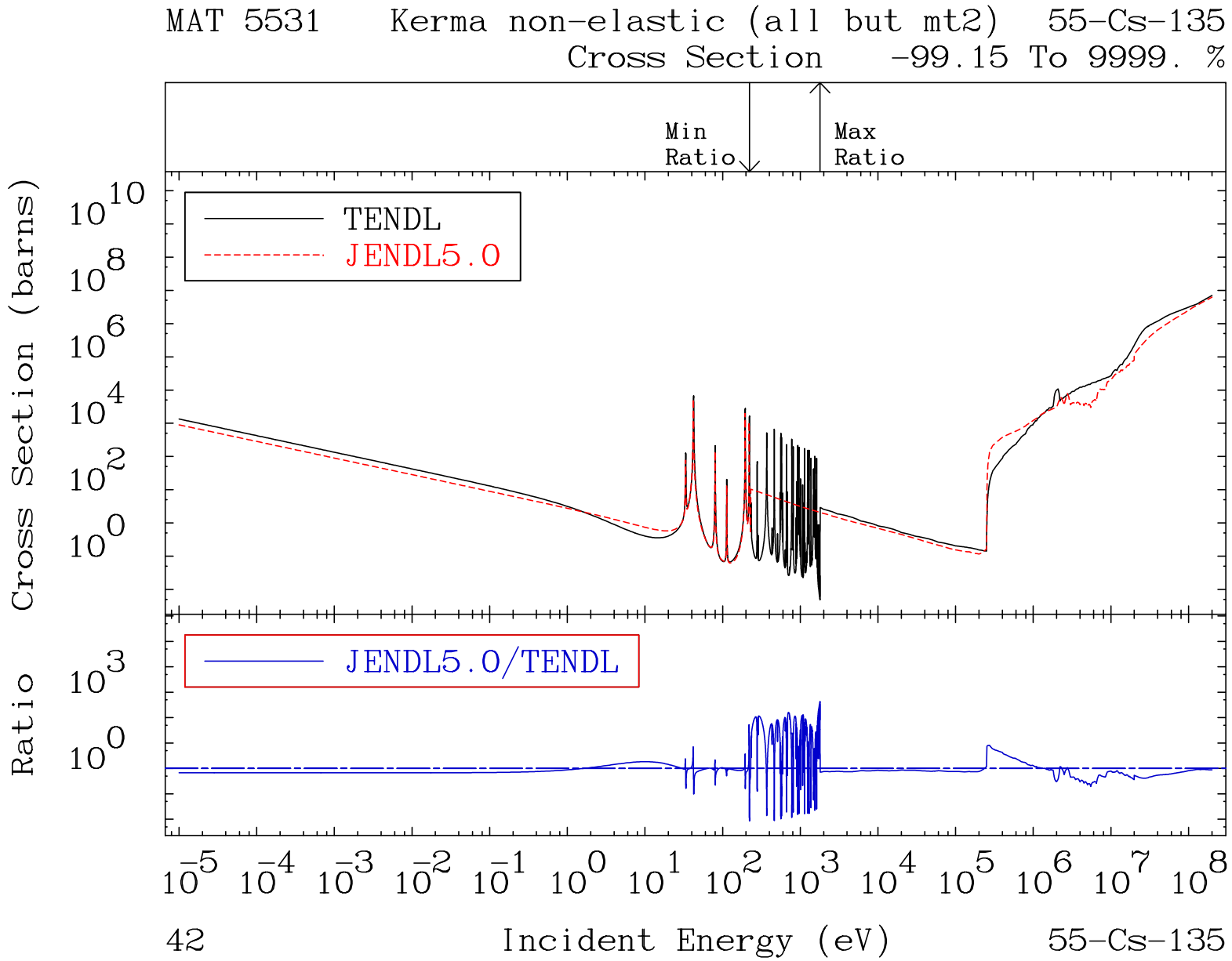

MAT 5531
Tritium Production
55-Cs-135
Cross Section
-99.97 To 7740. %
Max
Ratio
160
120
80
40
0
TENDL Threshold 6.8678 MeV
JENDL5.0 Threshold 6.8678 MeV
JENDL5.0/TENDL
10^3
10^0
10^-3
7 8
10^7
2 3 4 5 6 7 8
10^8
2
RatioCross Section (milli-barns)
37
Incident Energy (eV)
55-Cs-135

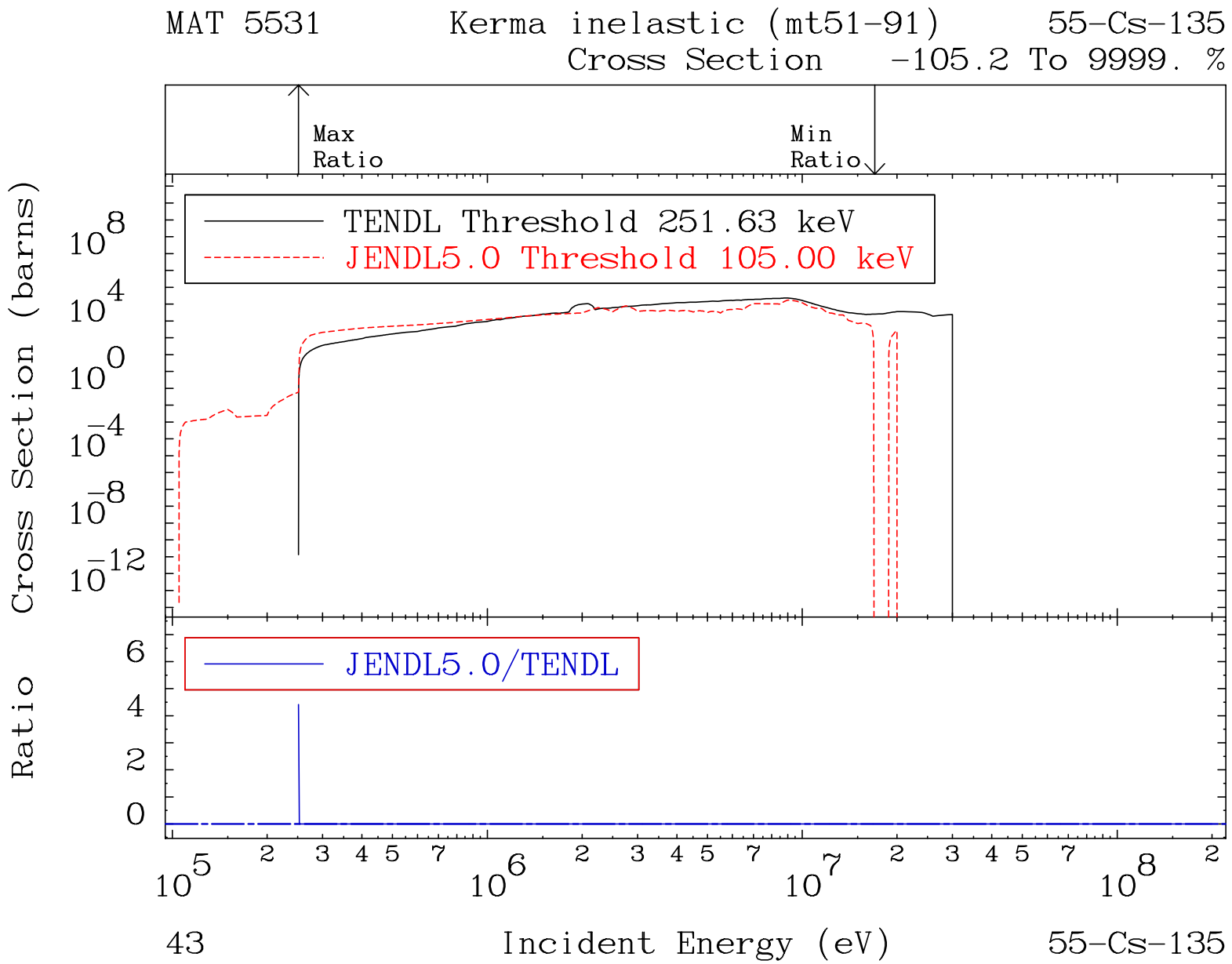

MAT 5531
He-3 Production
Cross Section
55-Cs-135
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 8.6487 MeV
JENDL5.0 Threshold 8.6191 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
10^5
10^0
10^-5
9
10^7
2
3
4
5
6
7
8
9
10^8
2
38
Incident Energy (eV)
55-Cs-135

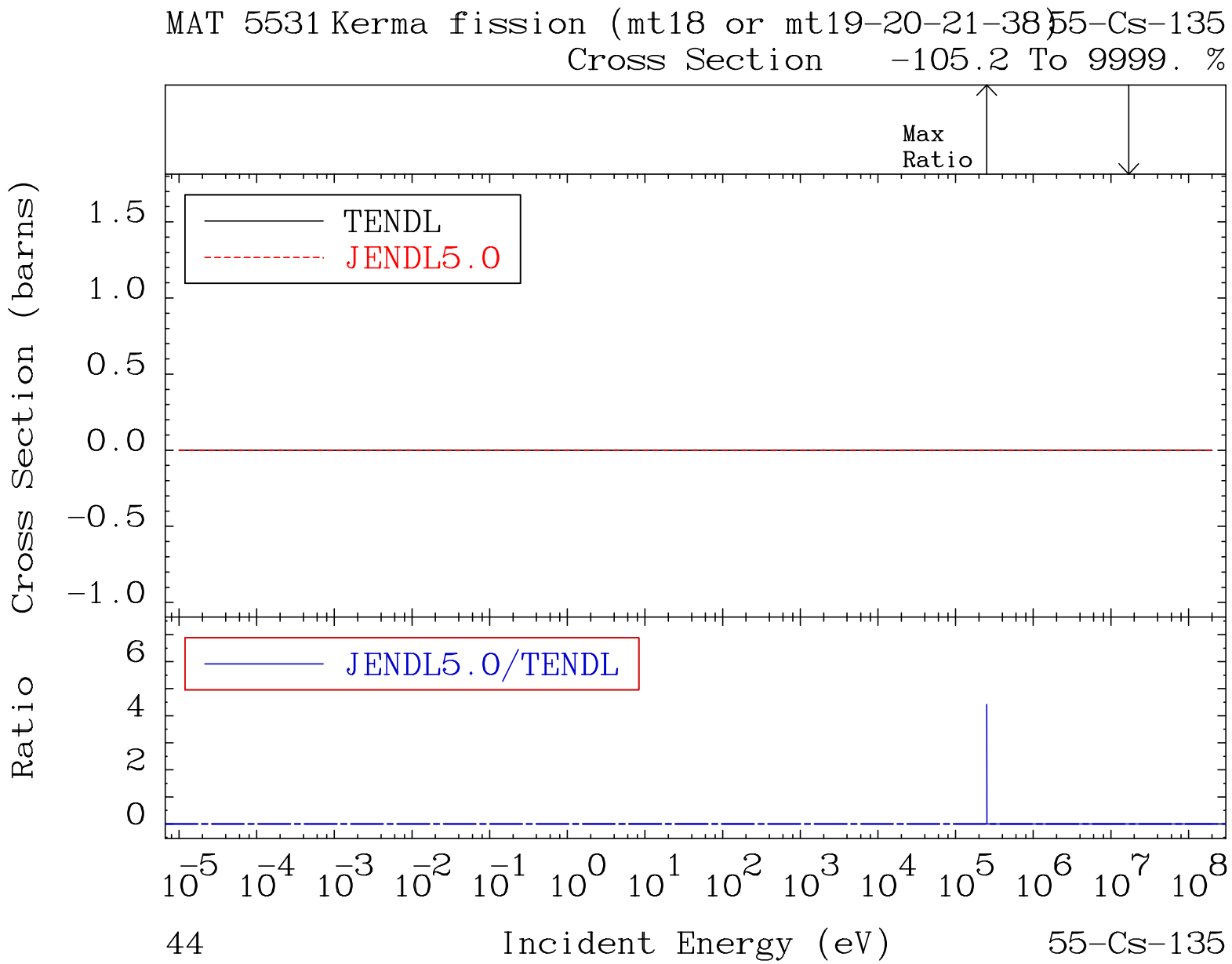

MAT 5531
He-4 Production
Cross Section
55-Cs-135
-85.05 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.8000 keV
JENDL5.0
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
10^6
10^3
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
39
Incident Energy (eV)
55-Cs-135

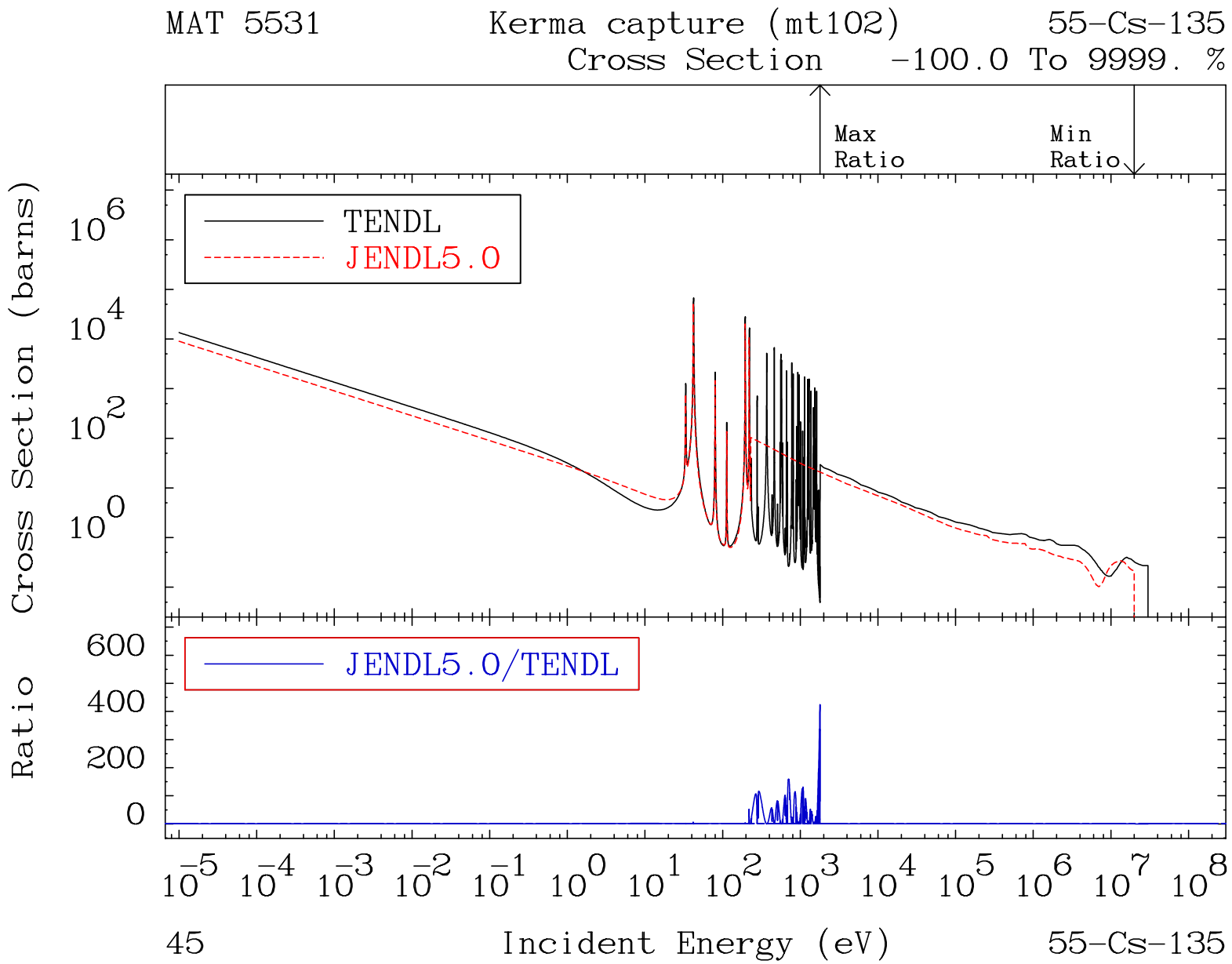

MAT 5531
Kerma total (eV-barns)
55-Cs-135
Cross Section -98.97 To 5331. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
40
55-Cs-135

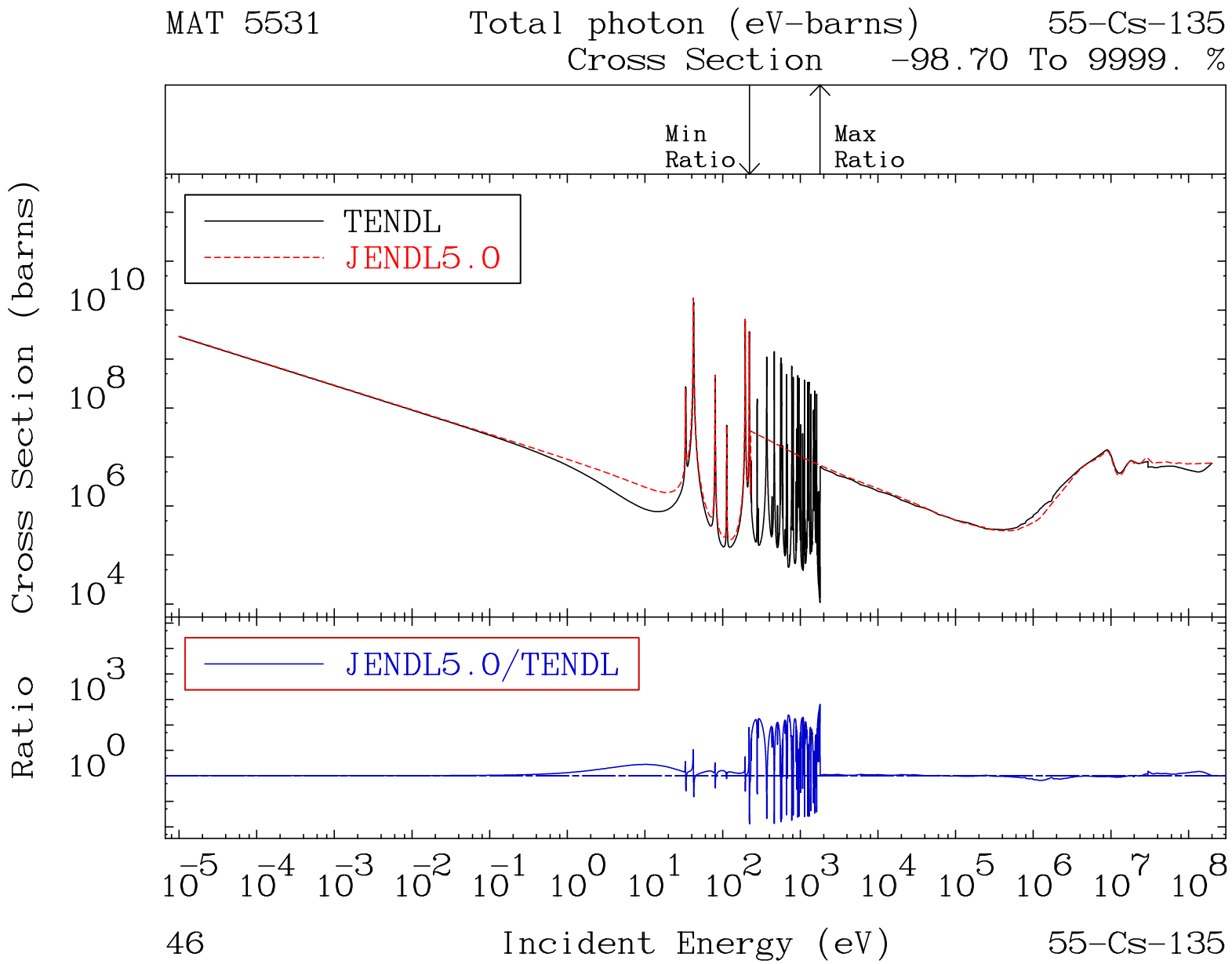

MAT 5531
Kerma elastic
55-Cs-135
Cross Section
-99.12 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
41
55-Cs-135

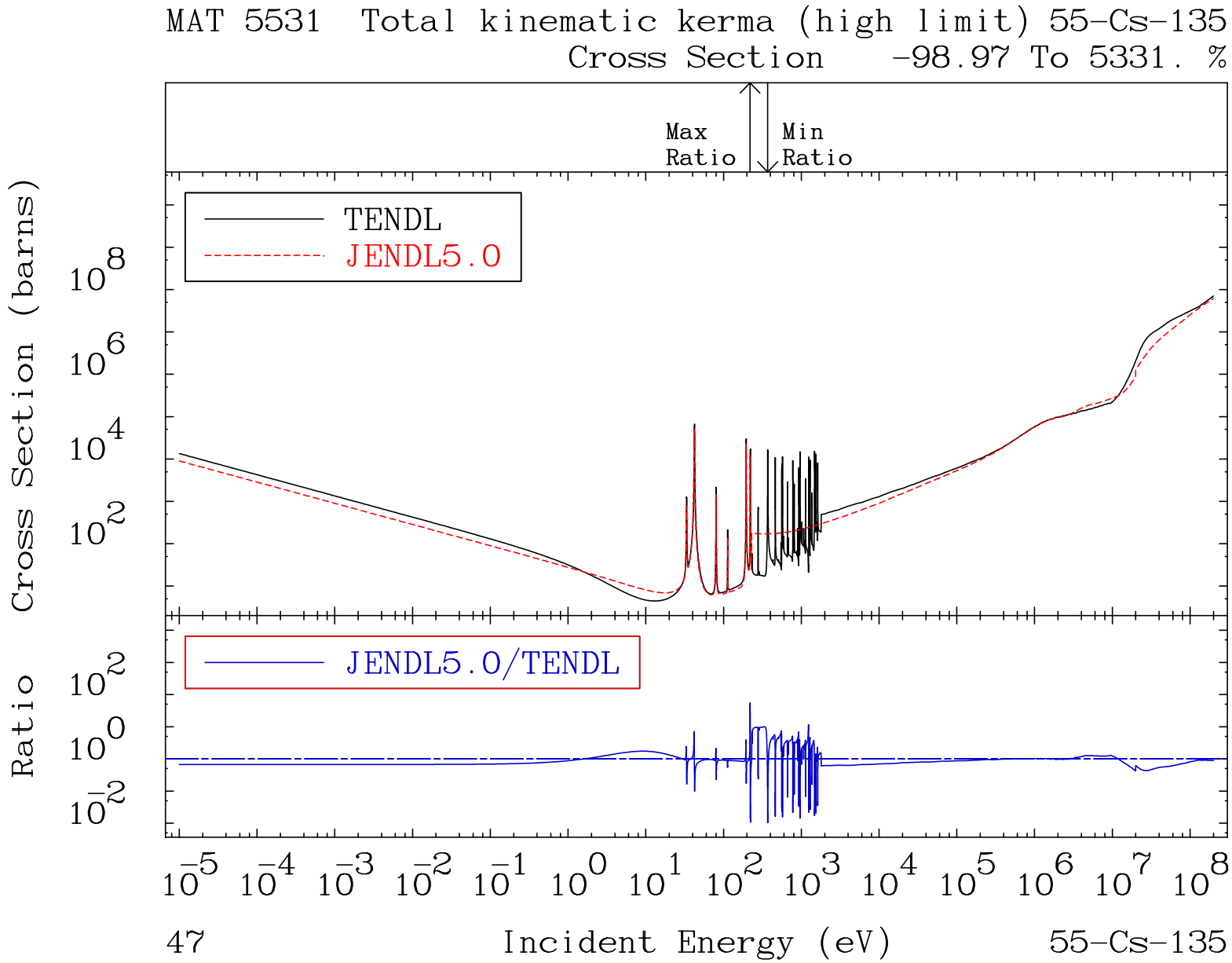

MAT 5531 Kerma non-elastic (all but mt2) 55-Cs-135
Cross Section -99.15 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
42
55-Cs-135

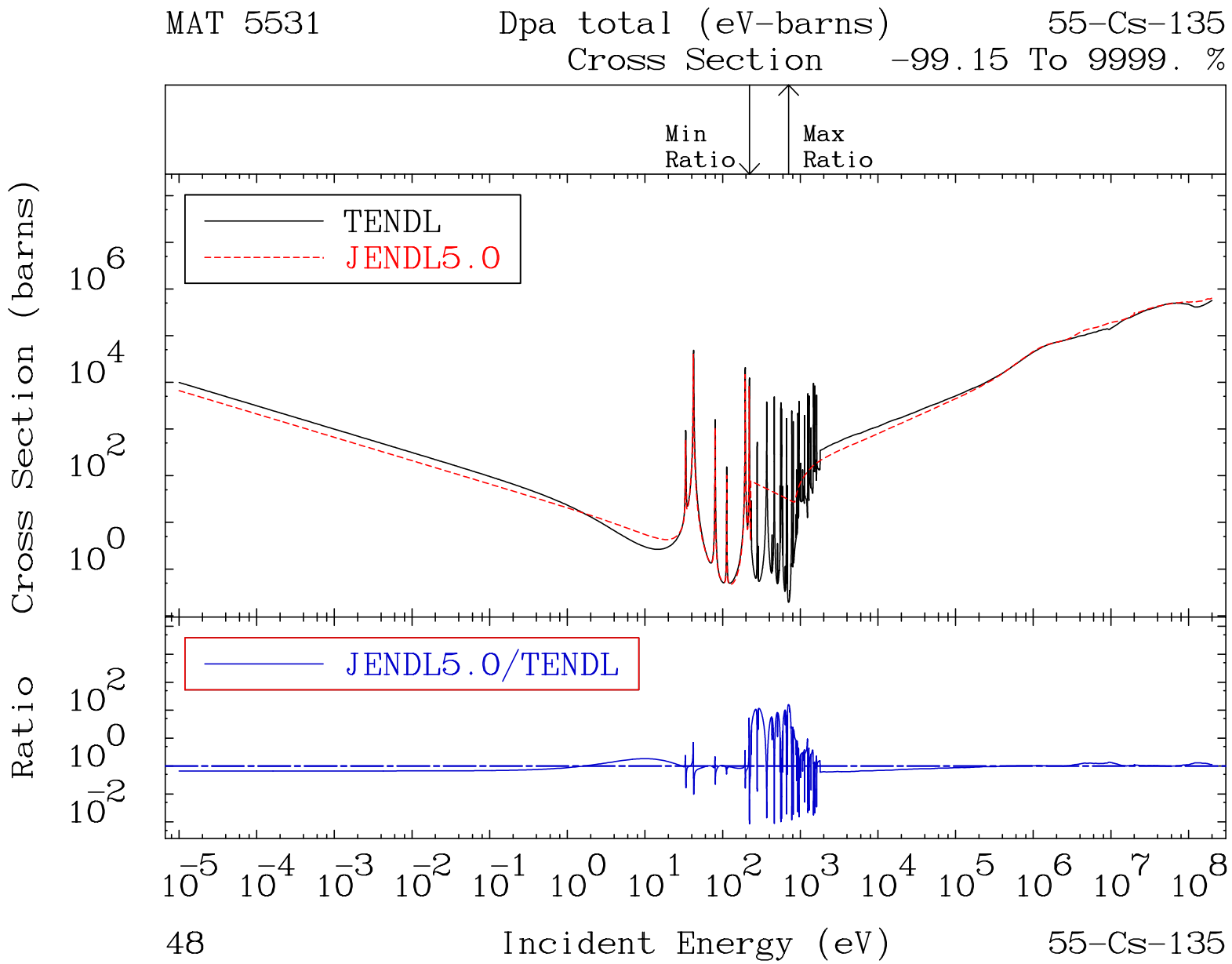

MAT 5531
Kerma inelastic (mt51-91)
55-Cs-135
Cross Section -105.2 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 251.63 keV
JENDL5.0 Threshold 105.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
43
55-Cs-135

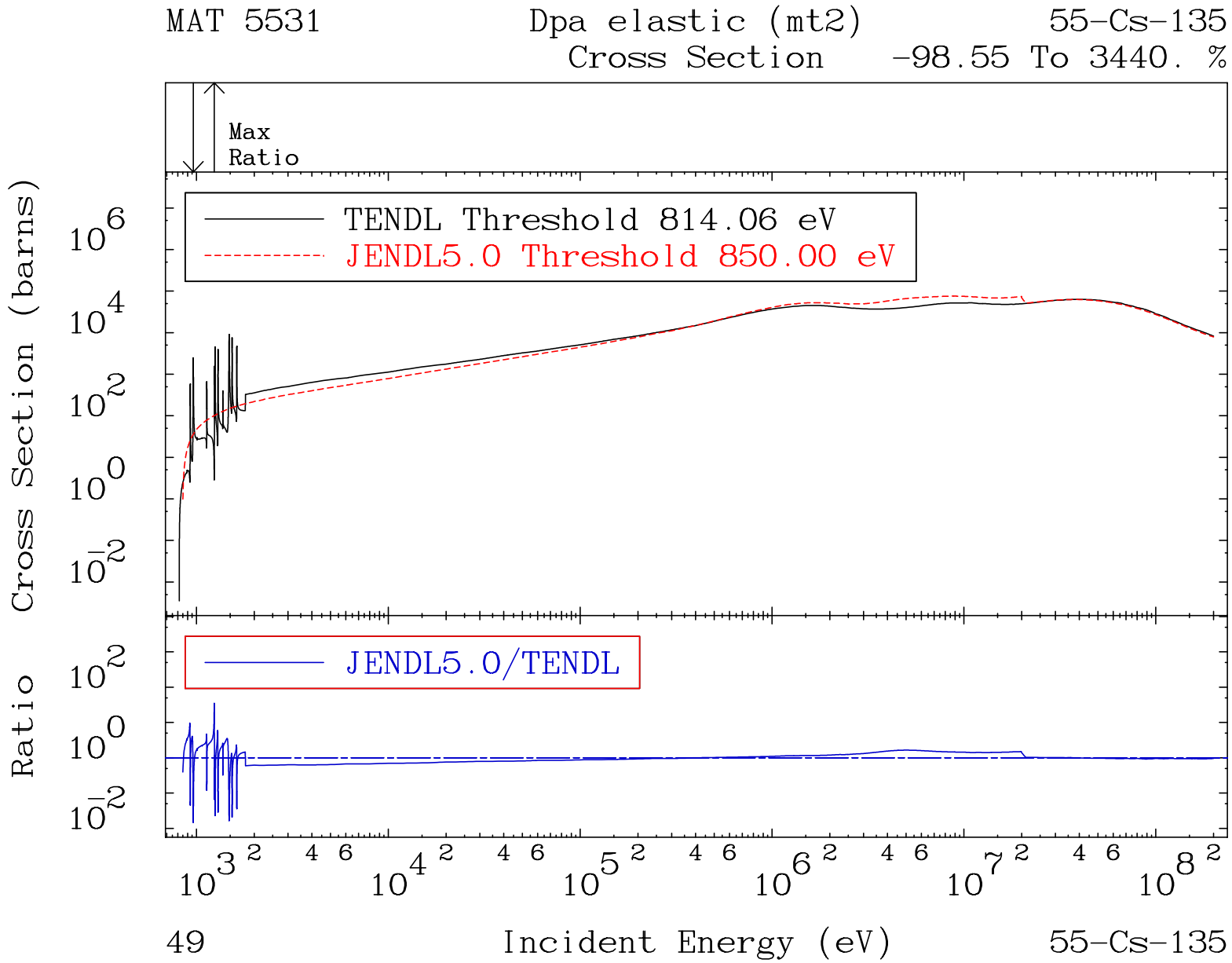

MAT 5531 Kerma fission (mt18 or mt19-20-21-38) 55-Cs-135
Cross Section -105.2 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
6
4
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
Incident Energy (eV)
44
55-Cs-135

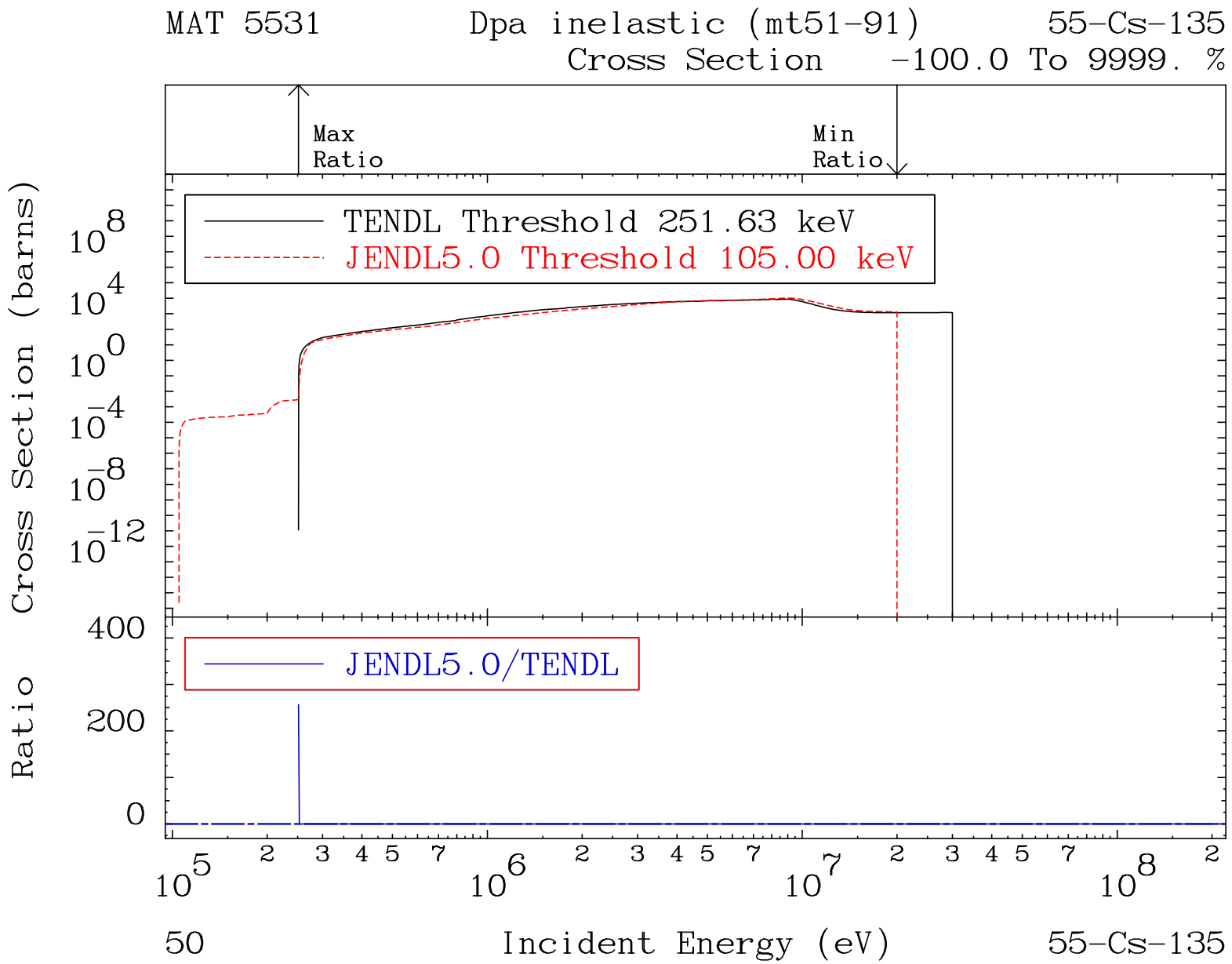

MAT 5531
Kerma capture (mt102)
55-Cs-135
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
45
55-Cs-135

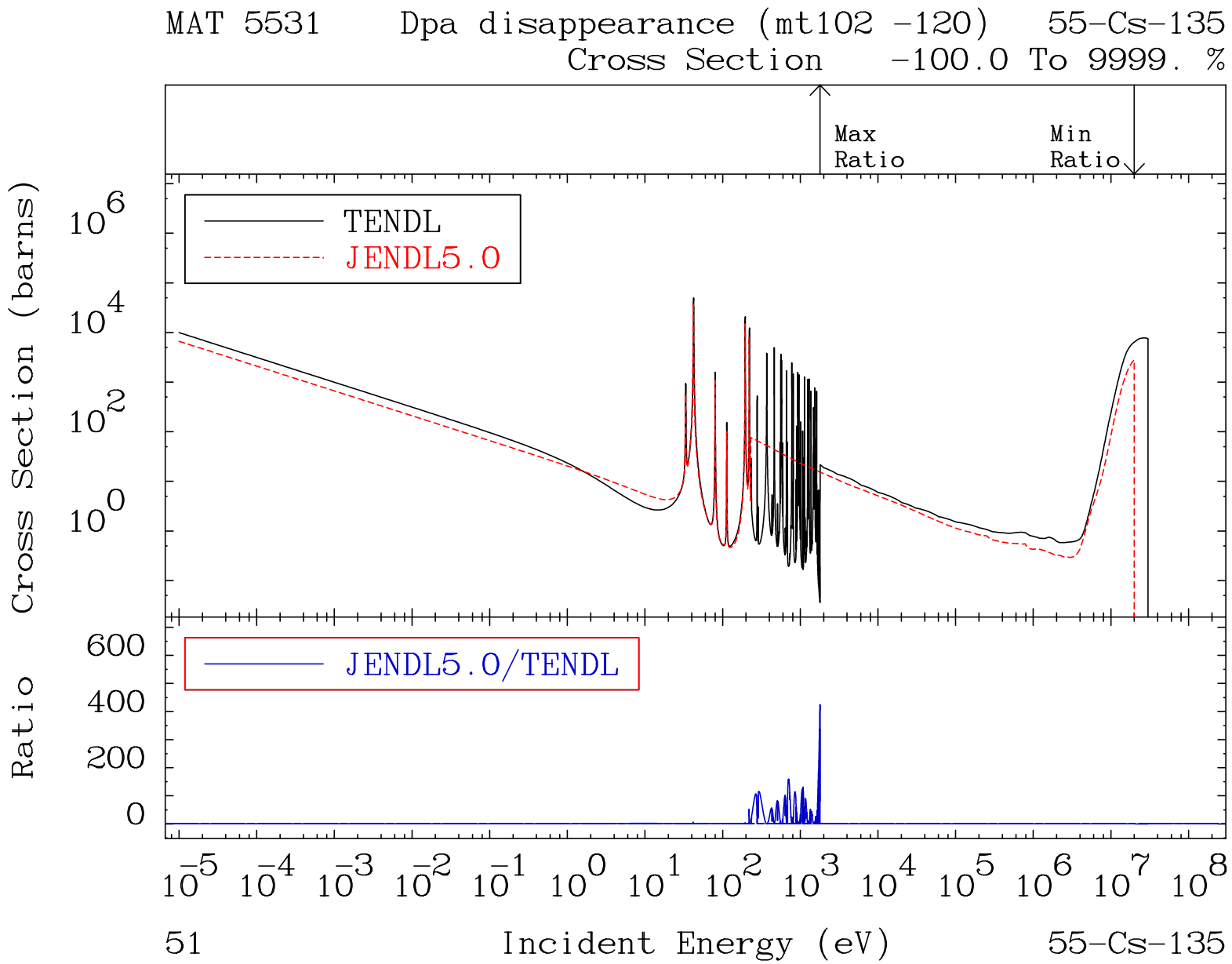

MAT 5531
Total photon (eV-barns)
55-Cs-135
Cross Section -98.70 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
46
55-Cs-135

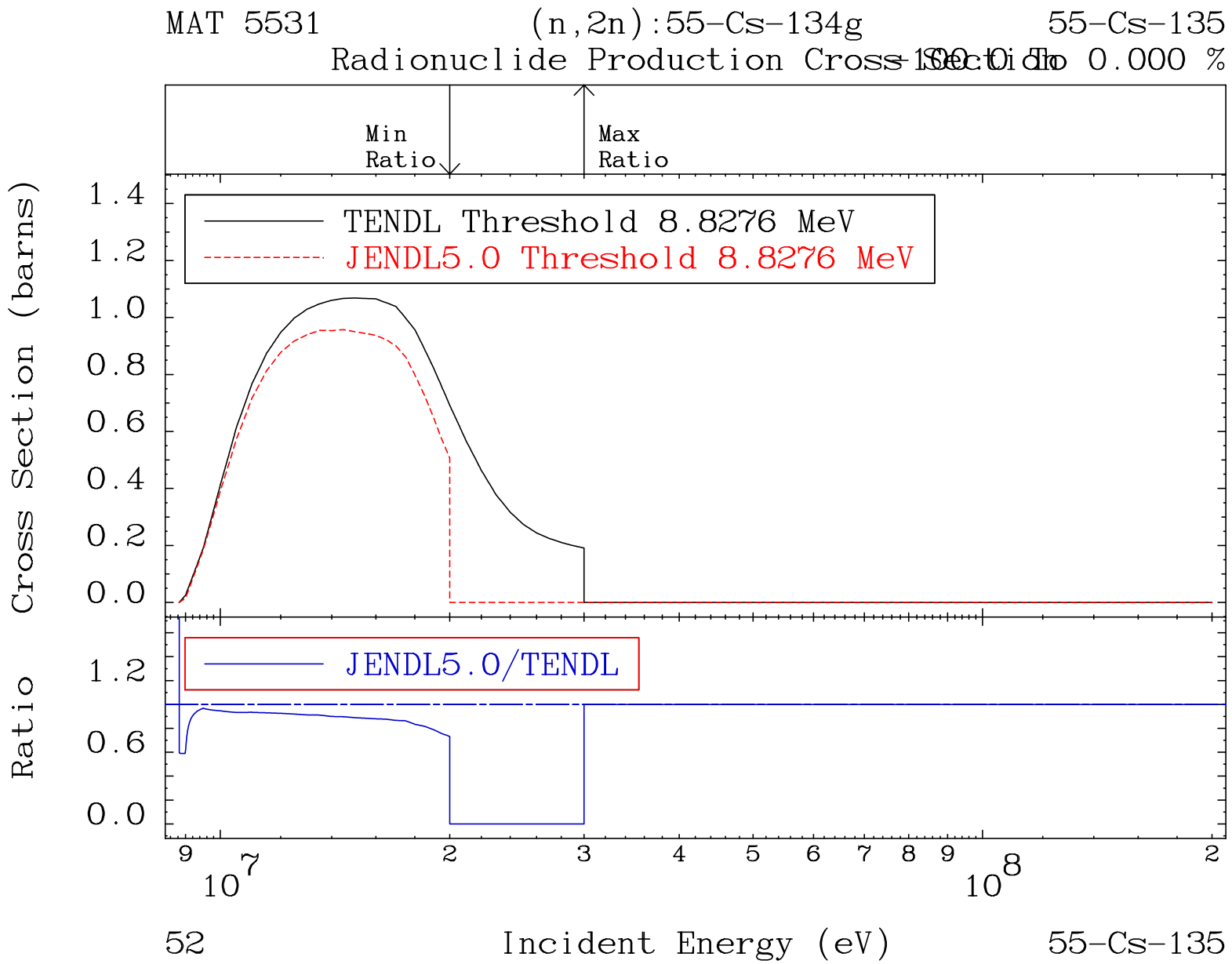

MAT 5531 Total kinematic kerma (high limit) 55-Cs-135
Cross Section -98.97 To 5331. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
47
55-Cs-135

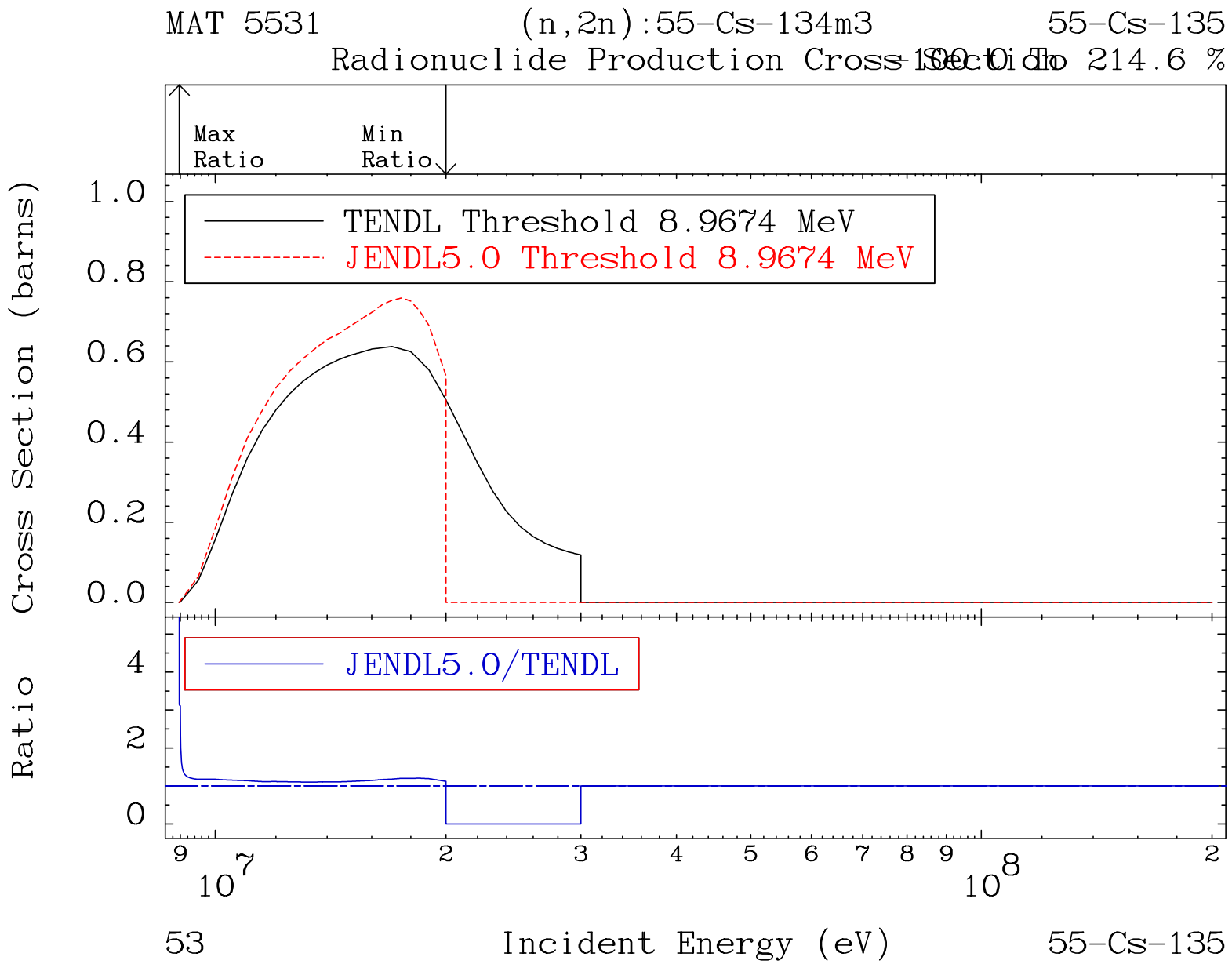

MAT 5531
Dpa total (eV-barns)
55-Cs-135
Cross Section
-99.15 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
48
55-Cs-135

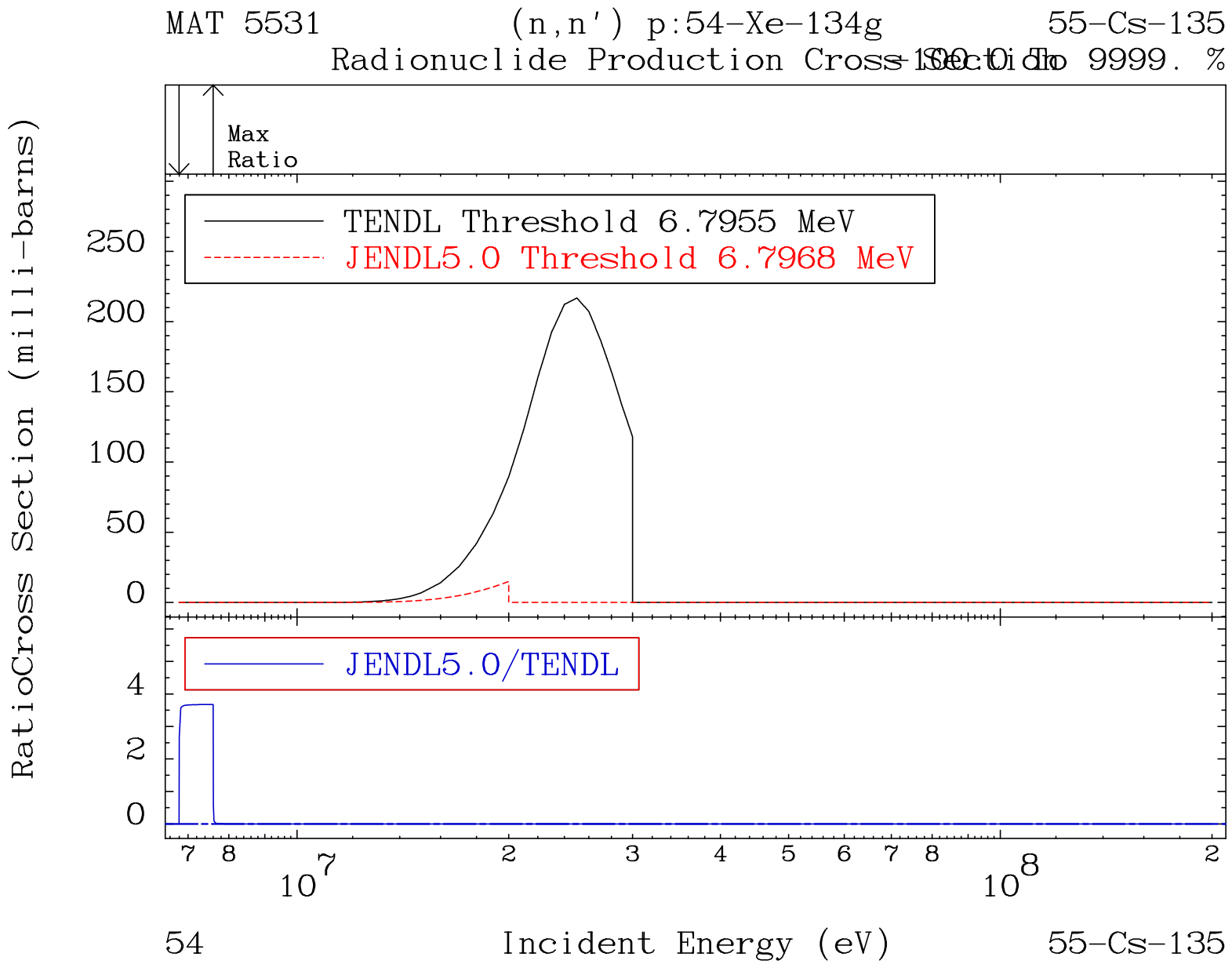

MAT 5531
Dpa elastic (mt2)
Cross Section
55-Cs-135
-98.55 To 3440. %
Max
Ratio
TENDL Threshold 814.06 eV
JENDL5.0 Threshold 850.00 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
49
55-Cs-135

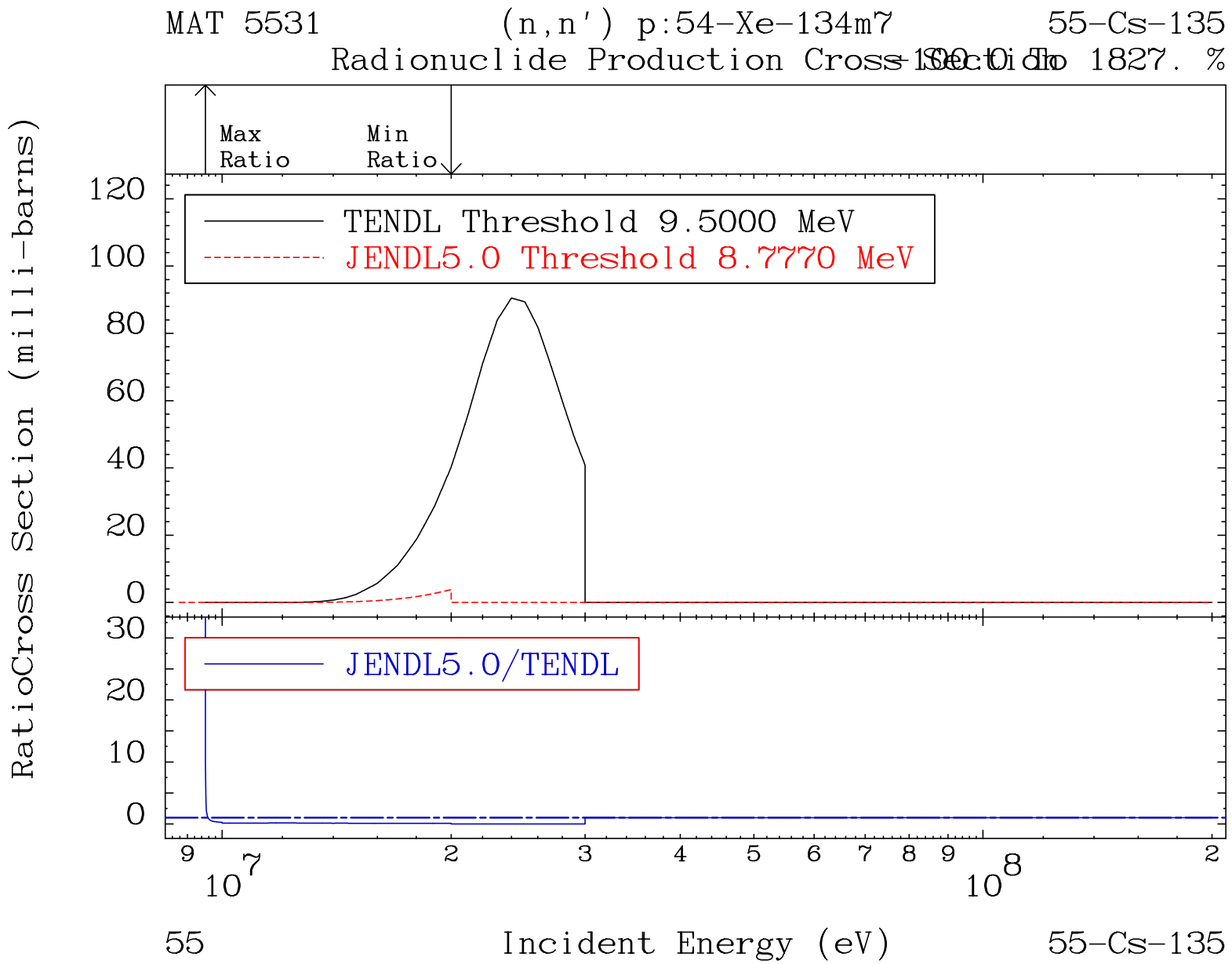

MAT 5531
Dpa inelastic (mt51-91)
55-Cs-135
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 251.63 keV
JENDL5.0 Threshold 105.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
50
55-Cs-135

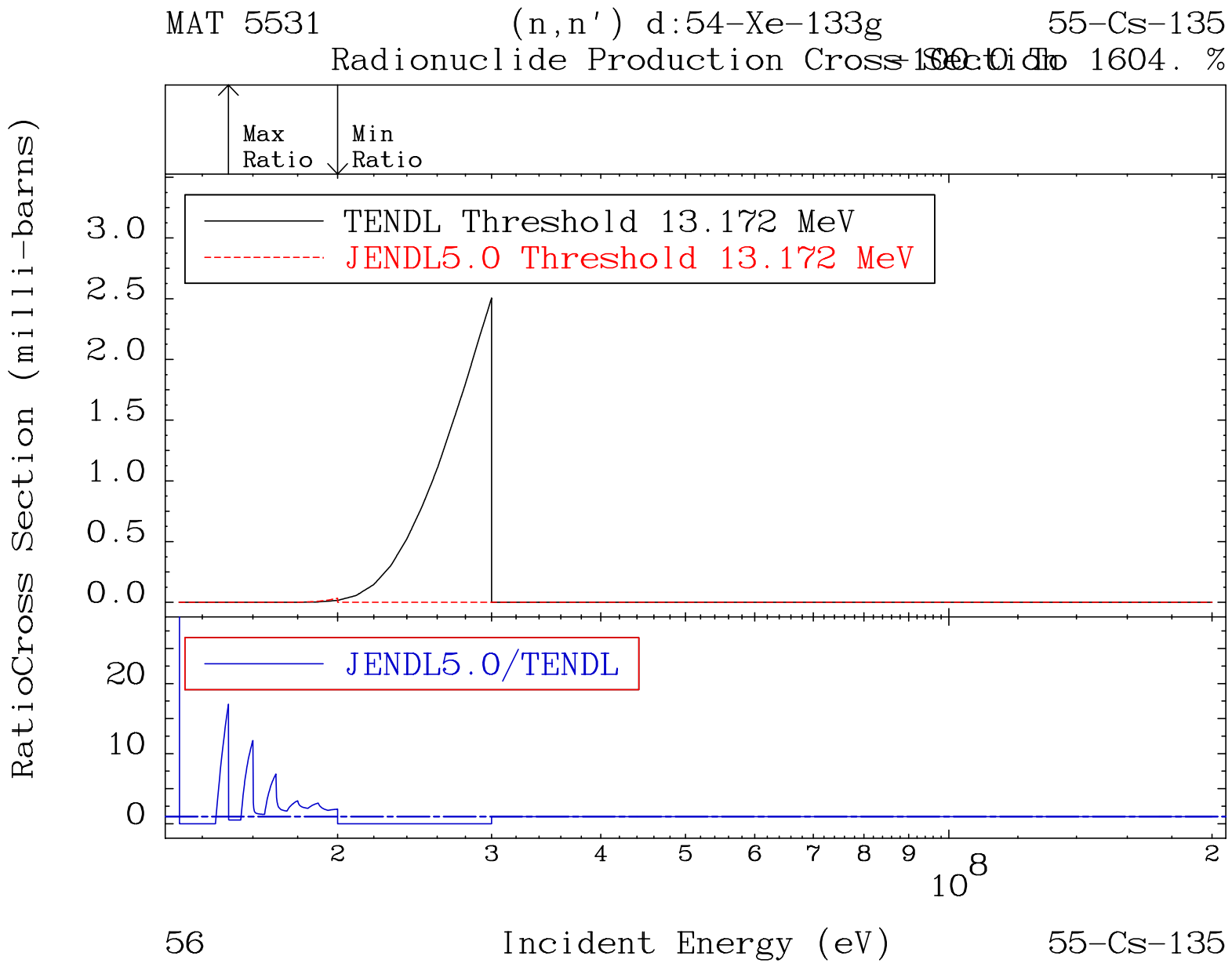

MAT 5531 Dpa disappearance (mt102 -120) 55-Cs-135
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
51
55-Cs-135

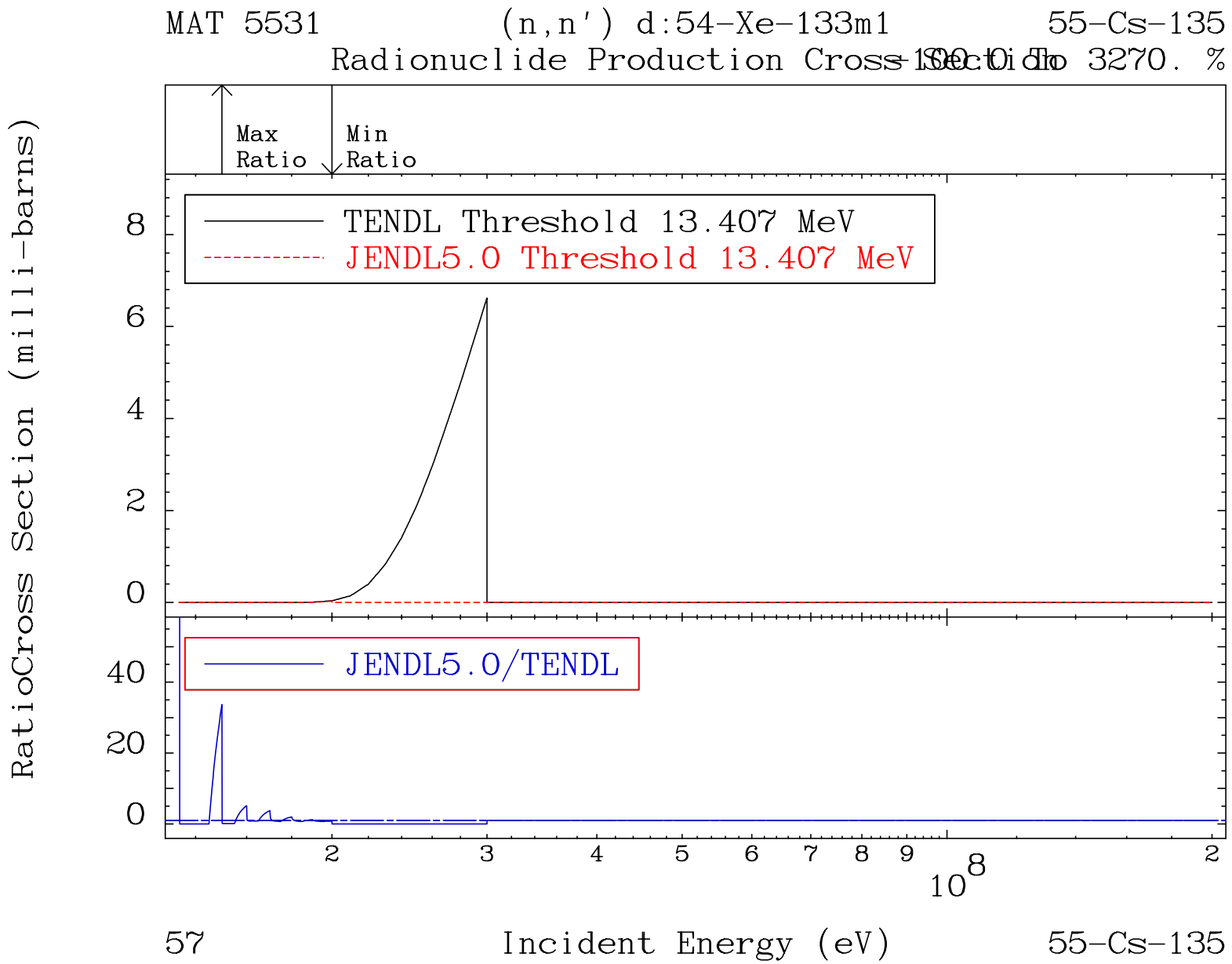

MAT 5531
(n,2n):55-Cs-134g
55-Cs-135
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 8.8276 MeV
JENDL5.0 Threshold 8.8276 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
52
55-Cs-135

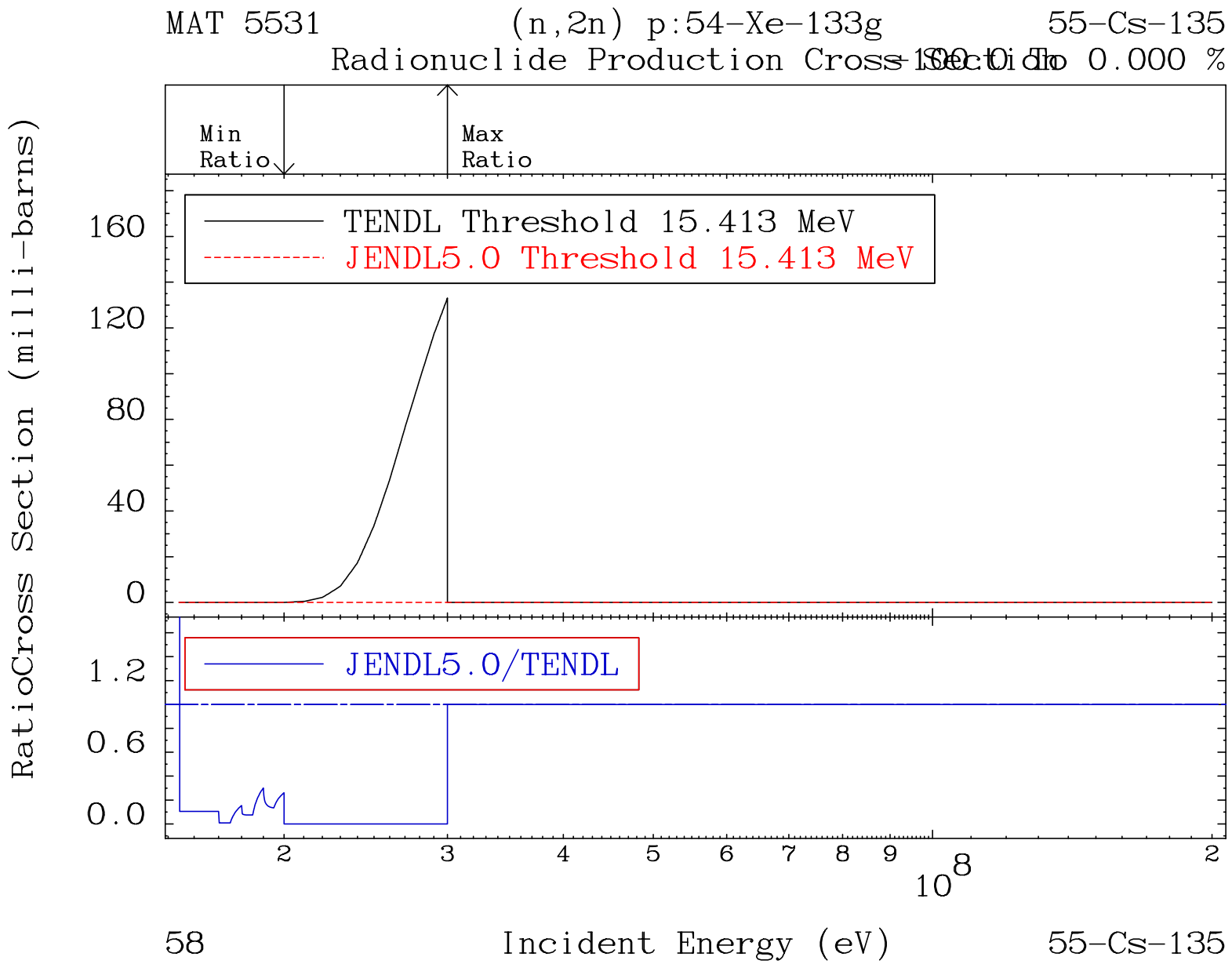

MAT 5531
(n,2n):55-Cs-134m3
55-Cs-135
Radionuclide Production Cross Section To 214.6 %
Max Ratio
Min Ratio
TENDL Threshold 8.9674 MeV
JENDL5.0 Threshold 8.9674 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
4
2
0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
53
Incident Energy (eV)
55-Cs-135

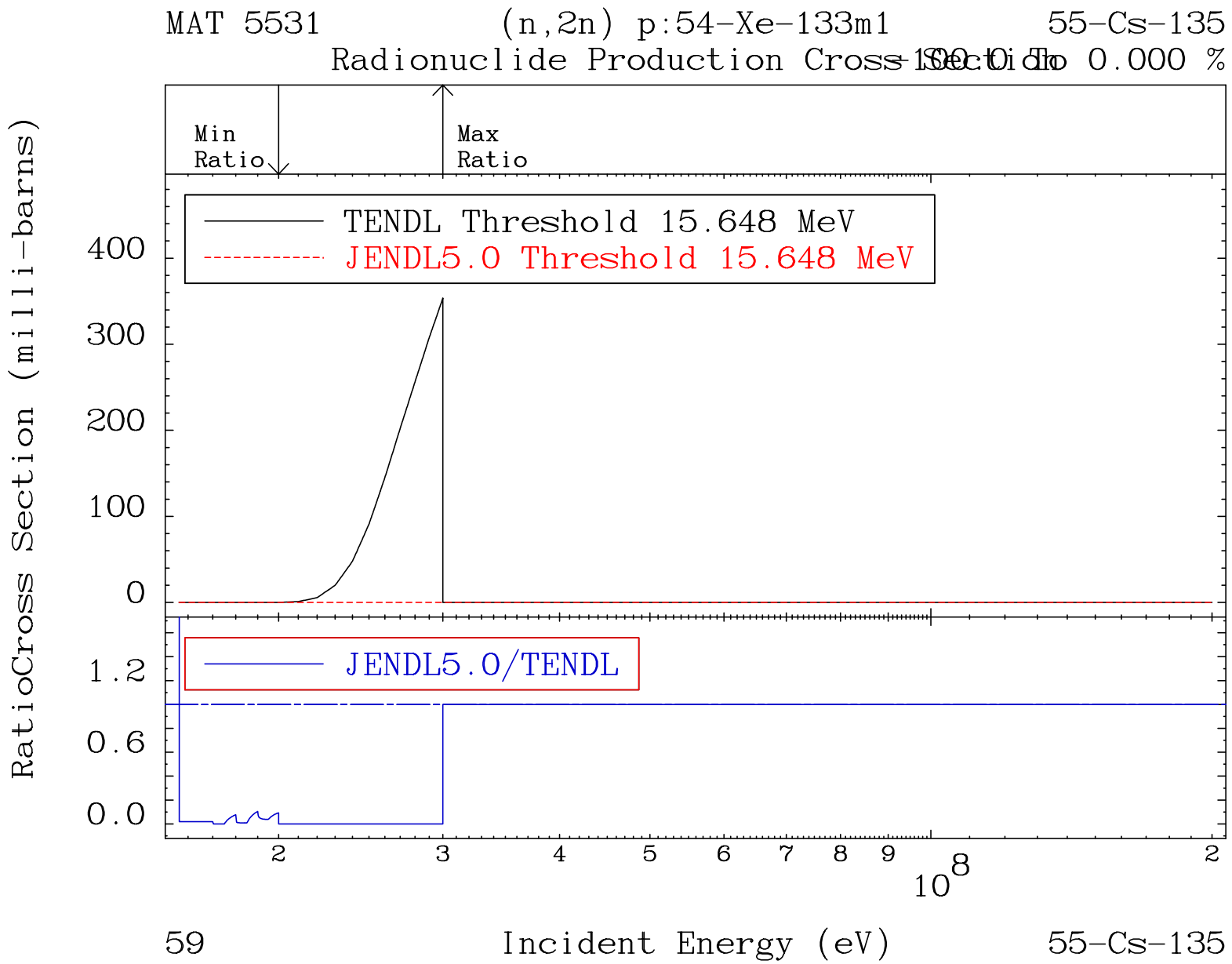

MAT 5531
(n,n') p:54-Xe-134g
55-Cs-135
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 6.7955 MeV
JENDL5.0 Threshold 6.7968 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
4
2
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
54
Incident Energy (eV)
55-Cs-135

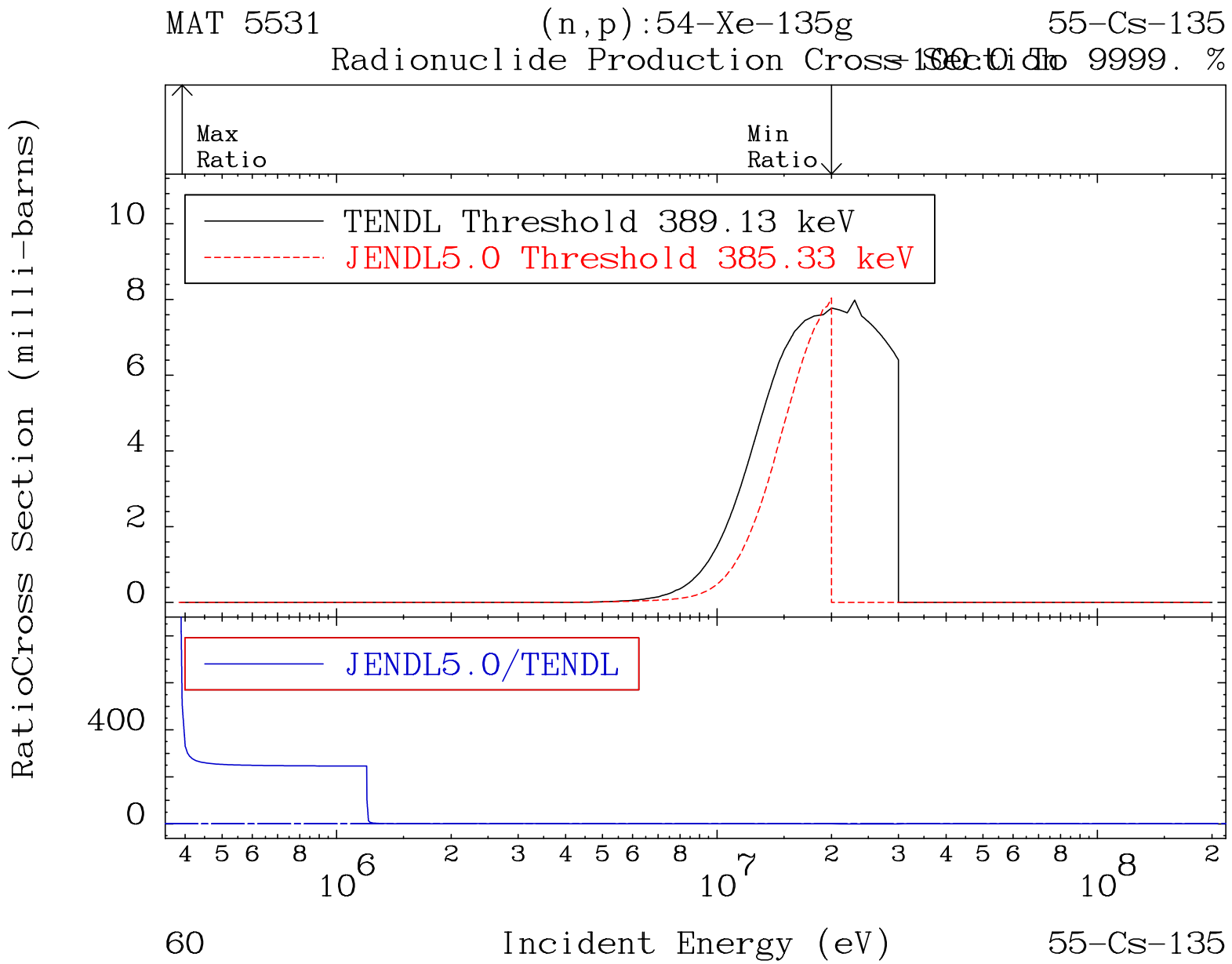

MAT 5531
(n,n') p:54-Xe-134m7
55-Cs-135
Radionuclide Production Cross Section To 1827. %
Max Ratio
Min Ratio
TENDL Threshold 9.5000 MeV
JENDL5.0 Threshold 8.7770 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
30
20
10
0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
55
Incident Energy (eV)
55-Cs-135

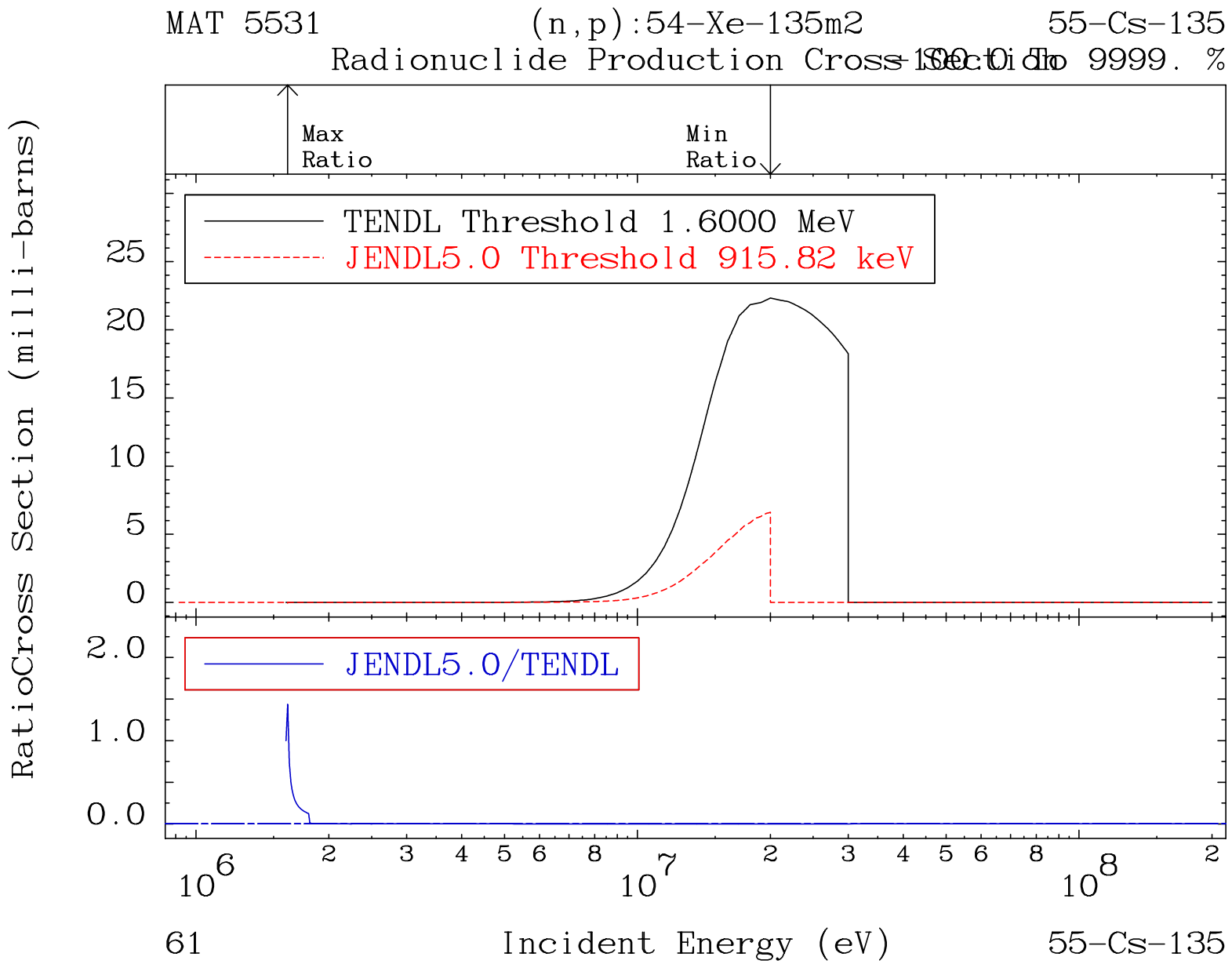

MAT 5531
(n,n') d:54-Xe-133g
55-Cs-135
Radionuclide Production Cross Section To 1604. %
Max Ratio
Min Ratio
TENDL Threshold 13.172 MeV
JENDL5.0 Threshold 13.172 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
20
10
0
2
3
4
5
6
7
8
9
10^8
2
56
Incident Energy (eV)
55-Cs-135

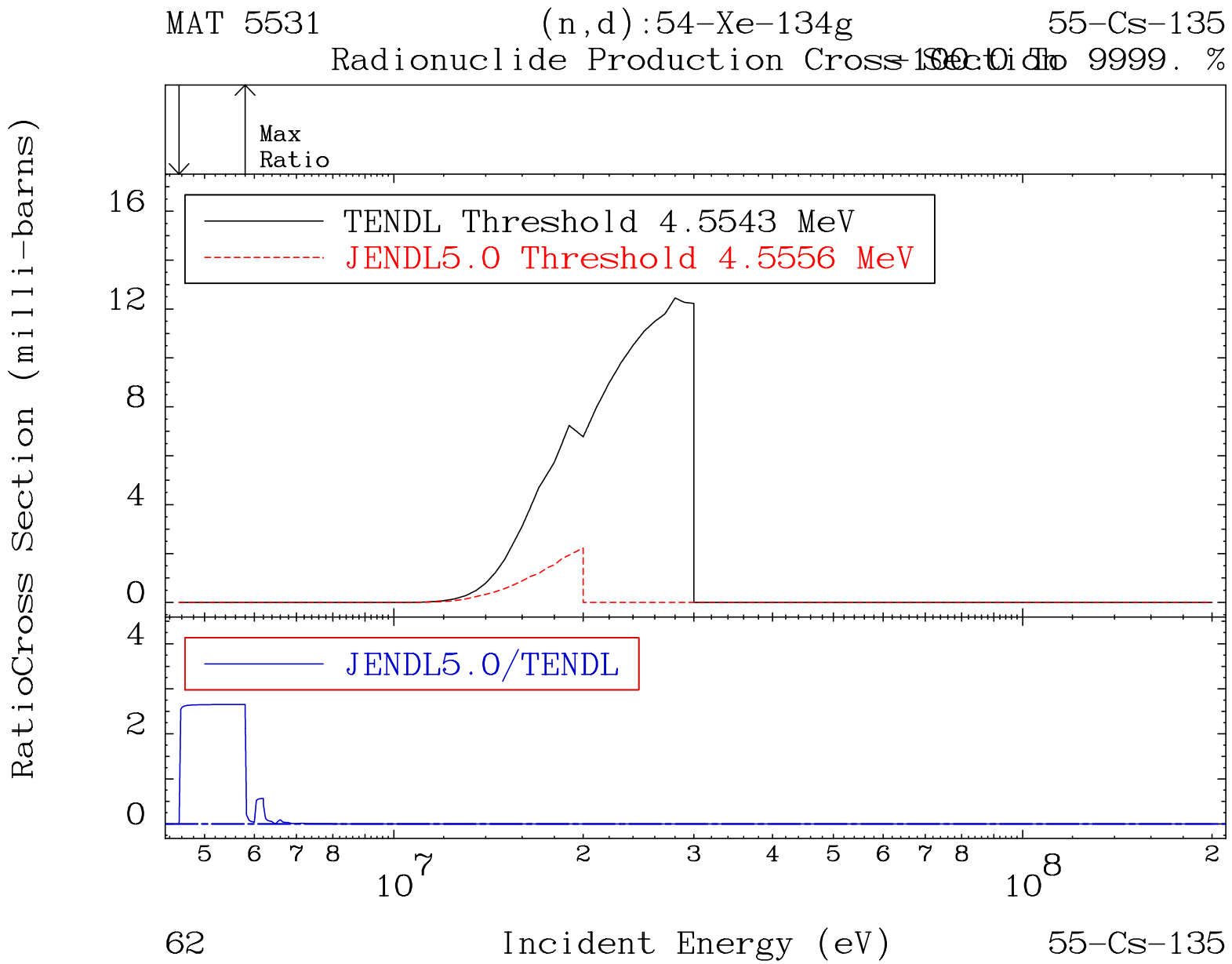

MAT 5531
(n,n') d:54-Xe-133m1
55-Cs-135
Radionuclide Production Cross Section To 3270. %
Max Ratio
Min Ratio
TENDL Threshold 13.407 MeV
JENDL5.0 Threshold 13.407 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
57
55-Cs-135

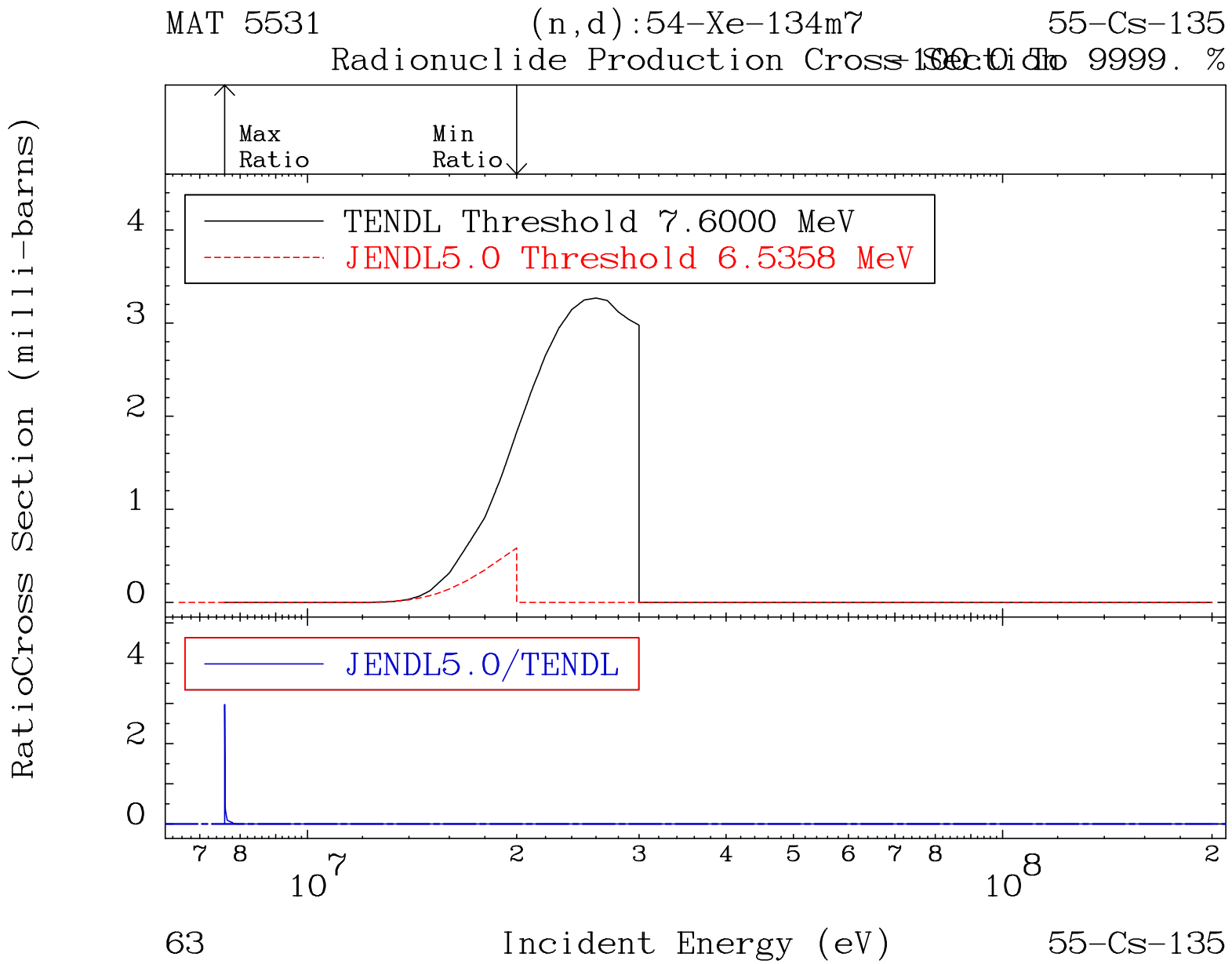

MAT 5531
(n,2n) p:54-Xe-133g
55-Cs-135
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 15.413 MeV
JENDL5.0 Threshold 15.413 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
2
10^8
58
Incident Energy (eV)
55-Cs-135

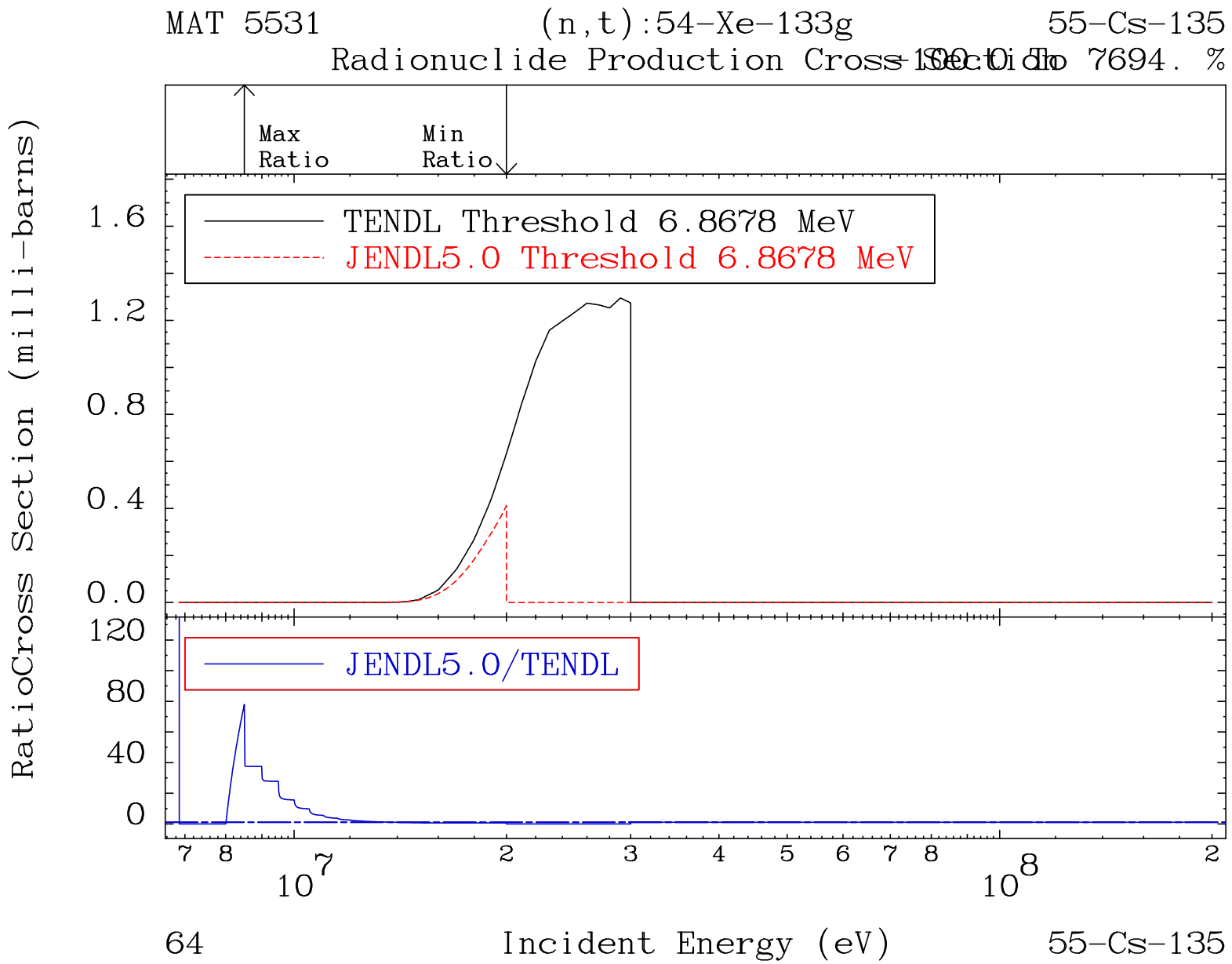

MAT 5531
(n,2n) p:54-Xe-133m1
55-Cs-135
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 15.648 MeV
JENDL5.0 Threshold 15.648 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
59
Incident Energy (eV)
55-Cs-135

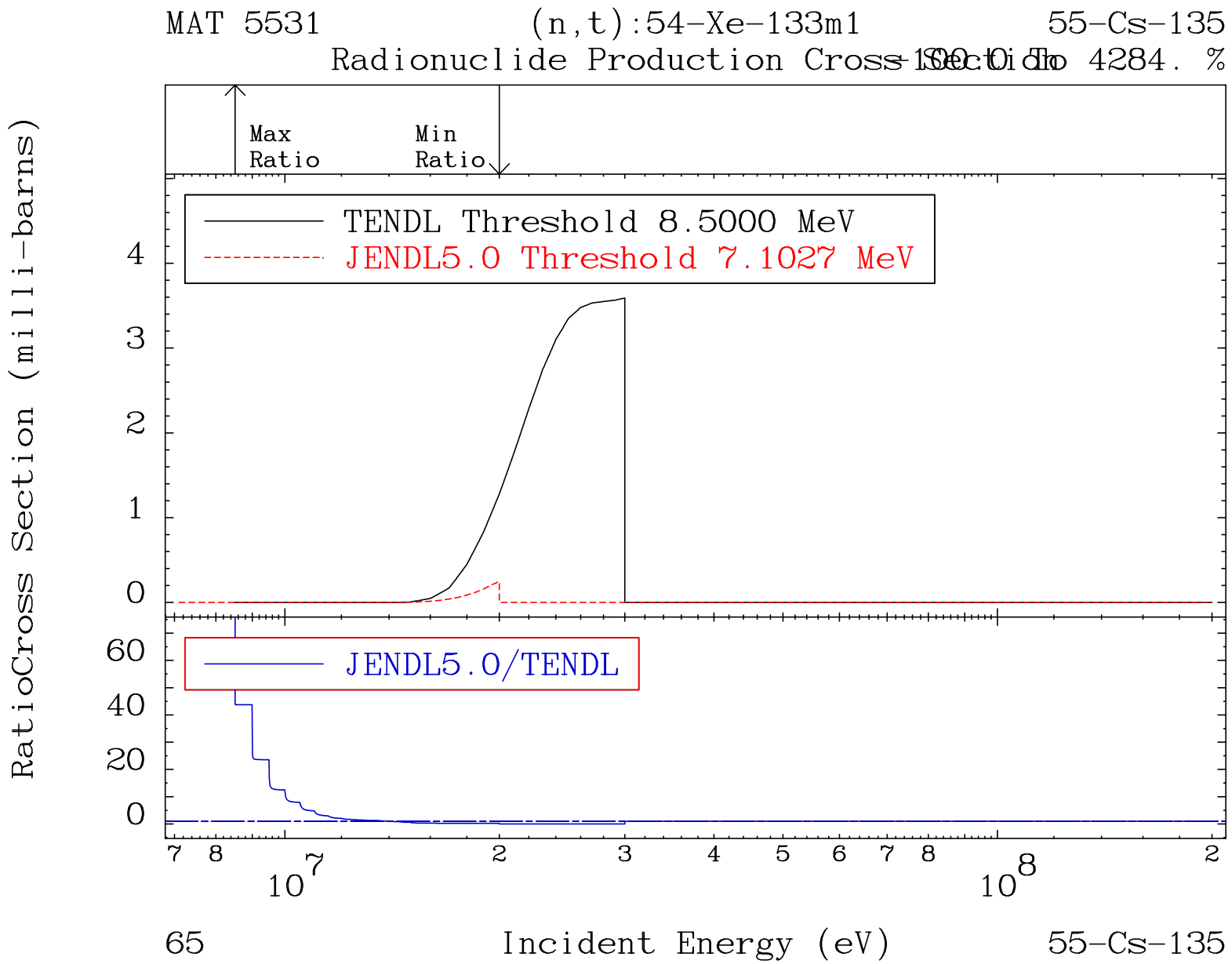

MAT 5531
(n,p):54-Xe-135g
55-Cs-135
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 389.13 keV
JENDL5.0 Threshold 385.33 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
400
0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
60
55-Cs-135

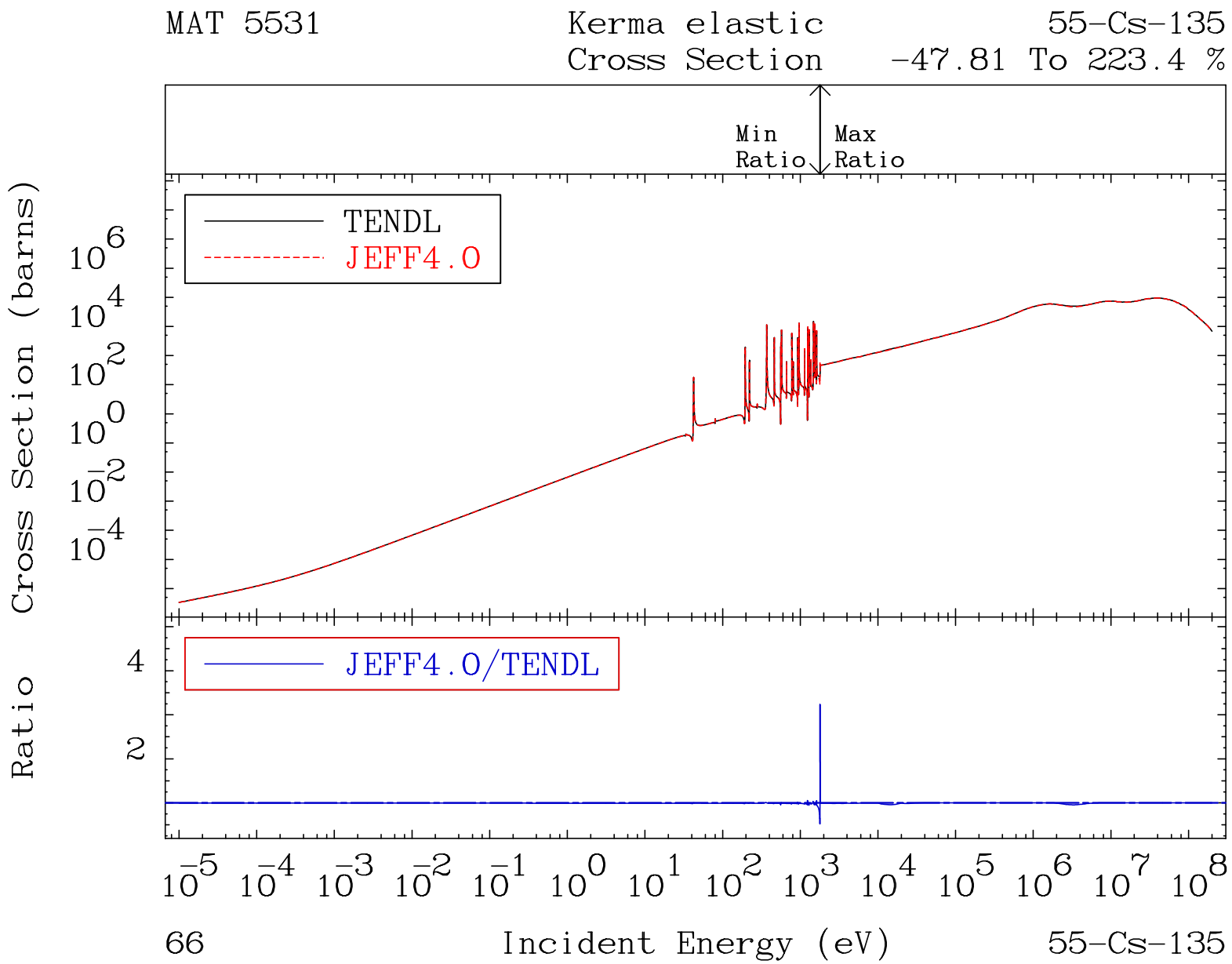

MAT 5531
(n,p):54-Xe-135m2
55-Cs-135
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.6000 MeV
JENDL5.0 Threshold 915.82 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
2.0
1.0
0.0
10^6
10^7
10^8
2 3 4 5 6 8
61
Incident Energy (eV)
55-Cs-135

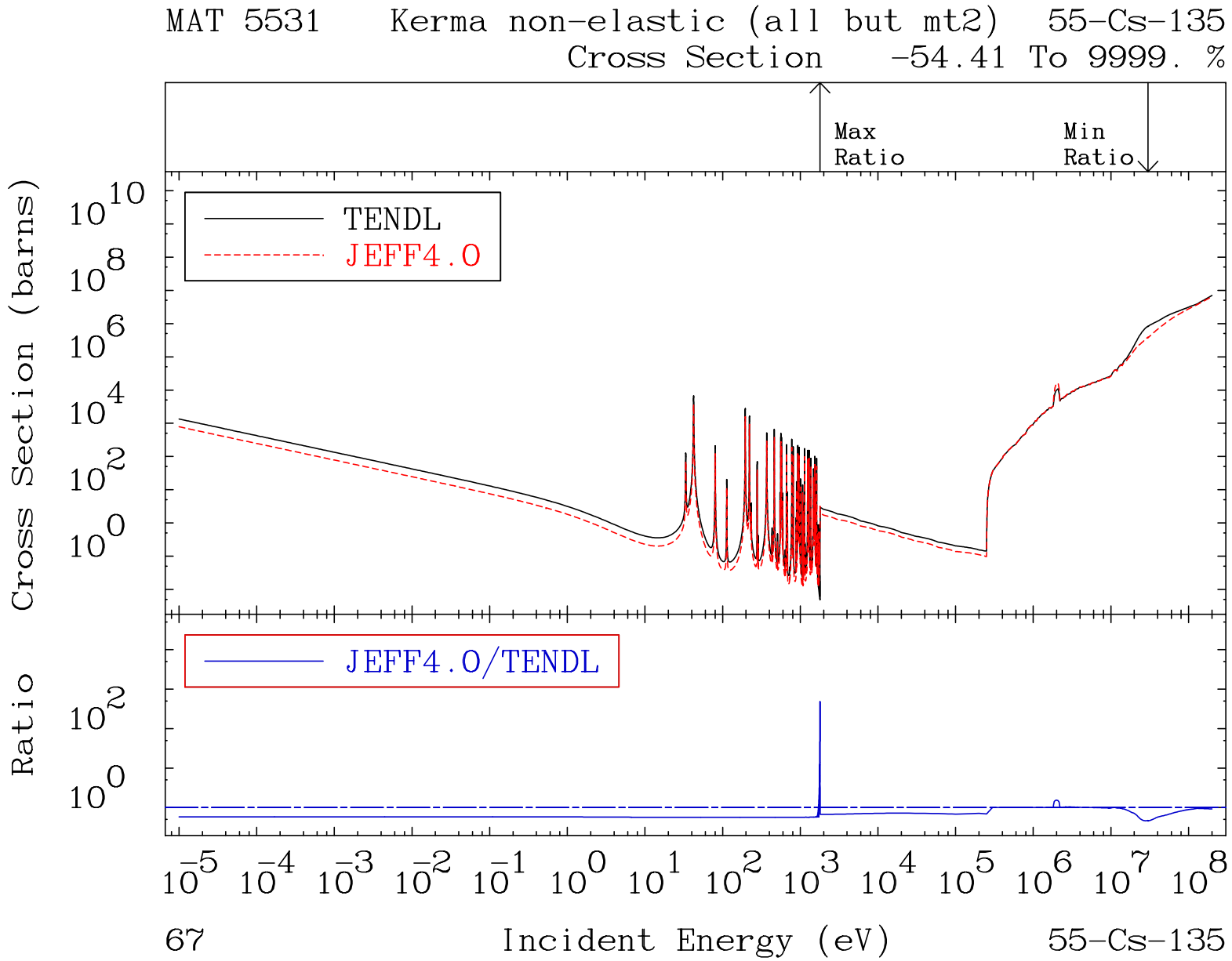

MAT 5531
(n,d):54-Xe-134g
55-Cs-135
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 4.5543 MeV
JENDL5.0 Threshold 4.5556 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
4
2
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
62
Incident Energy (eV)
55-Cs-135

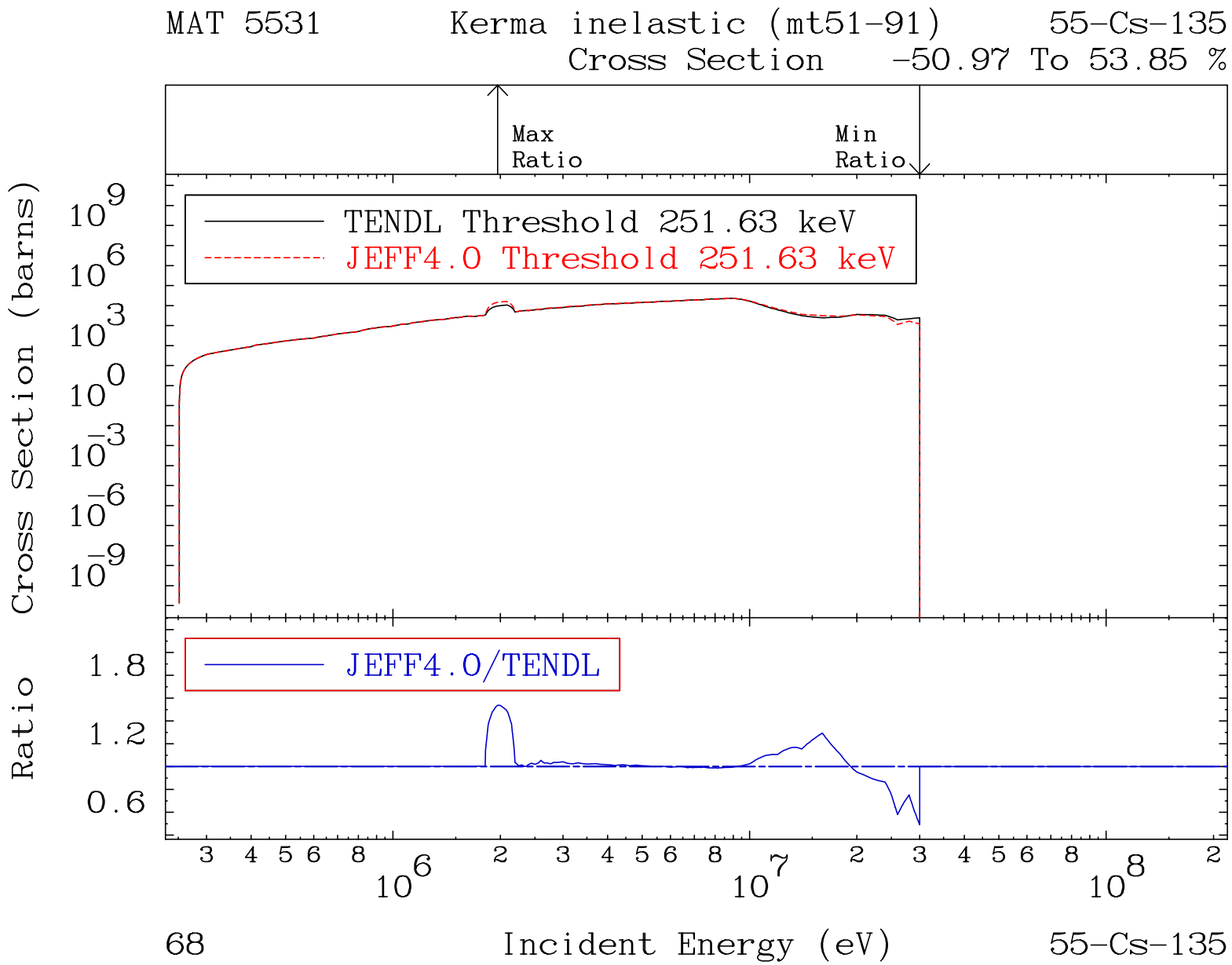

MAT 5531
(n,d):54-Xe-134m7
55-Cs-135
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 7.6000 MeV
JENDL5.0 Threshold 6.5358 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
63
55-Cs-135

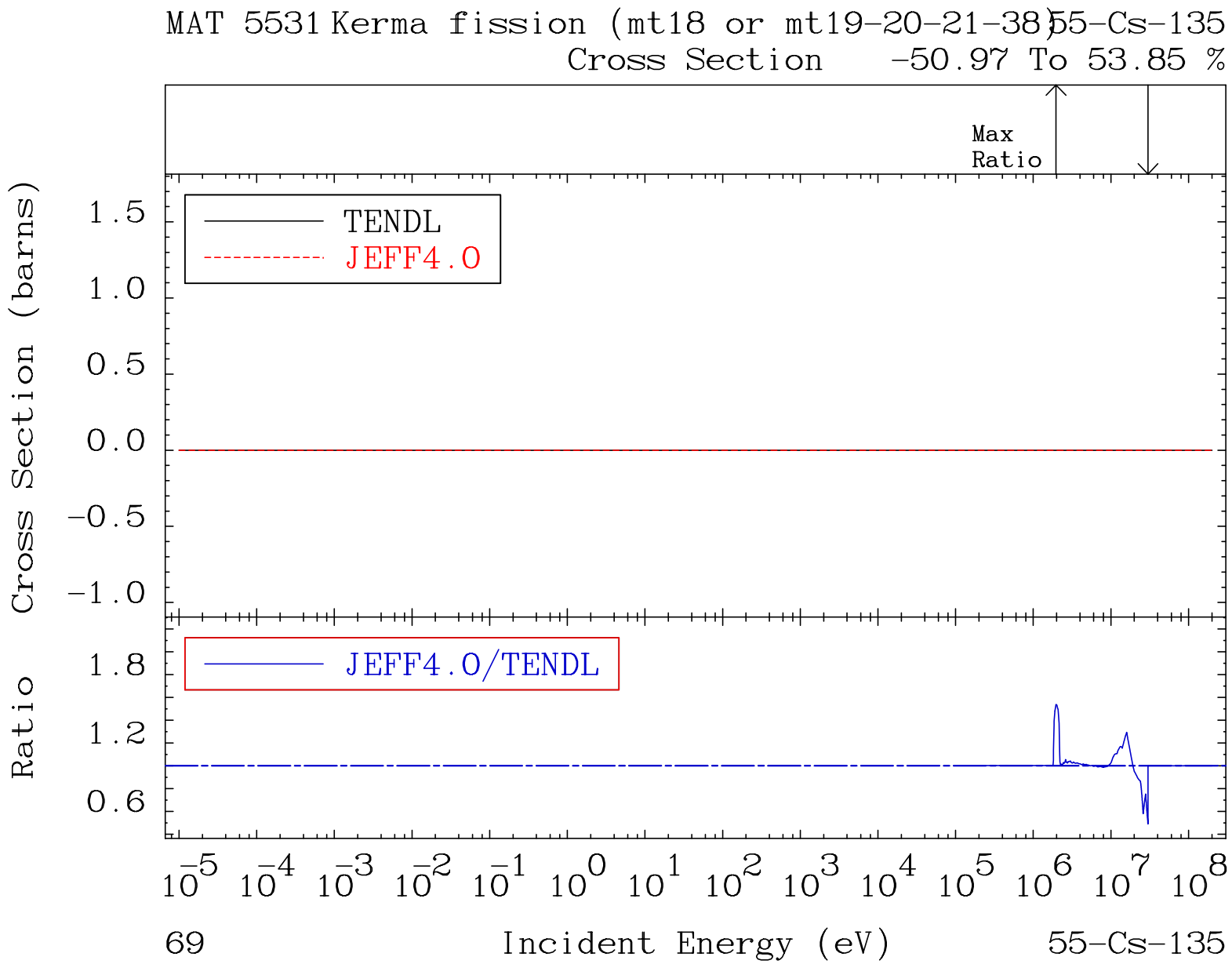

MAT 5531
(n,t):54-Xe-133g
55-Cs-135
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 6.8678 MeV
JENDL5.0 Threshold 6.8678 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
64
55-Cs-135

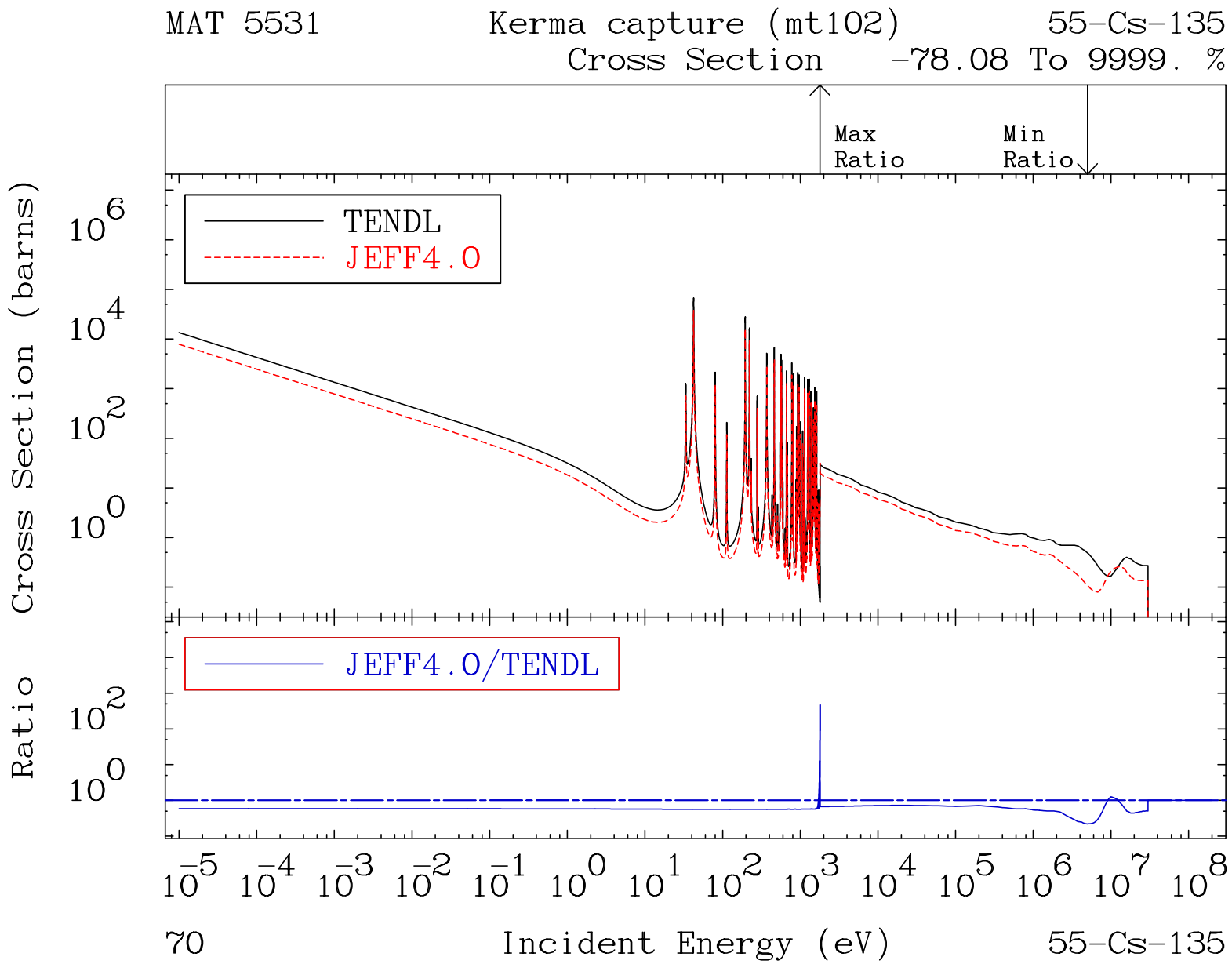

MAT 5531
(n,t):54-Xe-133m1
55-Cs-135
Radionuclide Production Cross Section To 4284. %
Max Ratio
Min Ratio
TENDL Threshold 8.5000 MeV
JENDL5.0 Threshold 7.1027 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
65
55-Cs-135

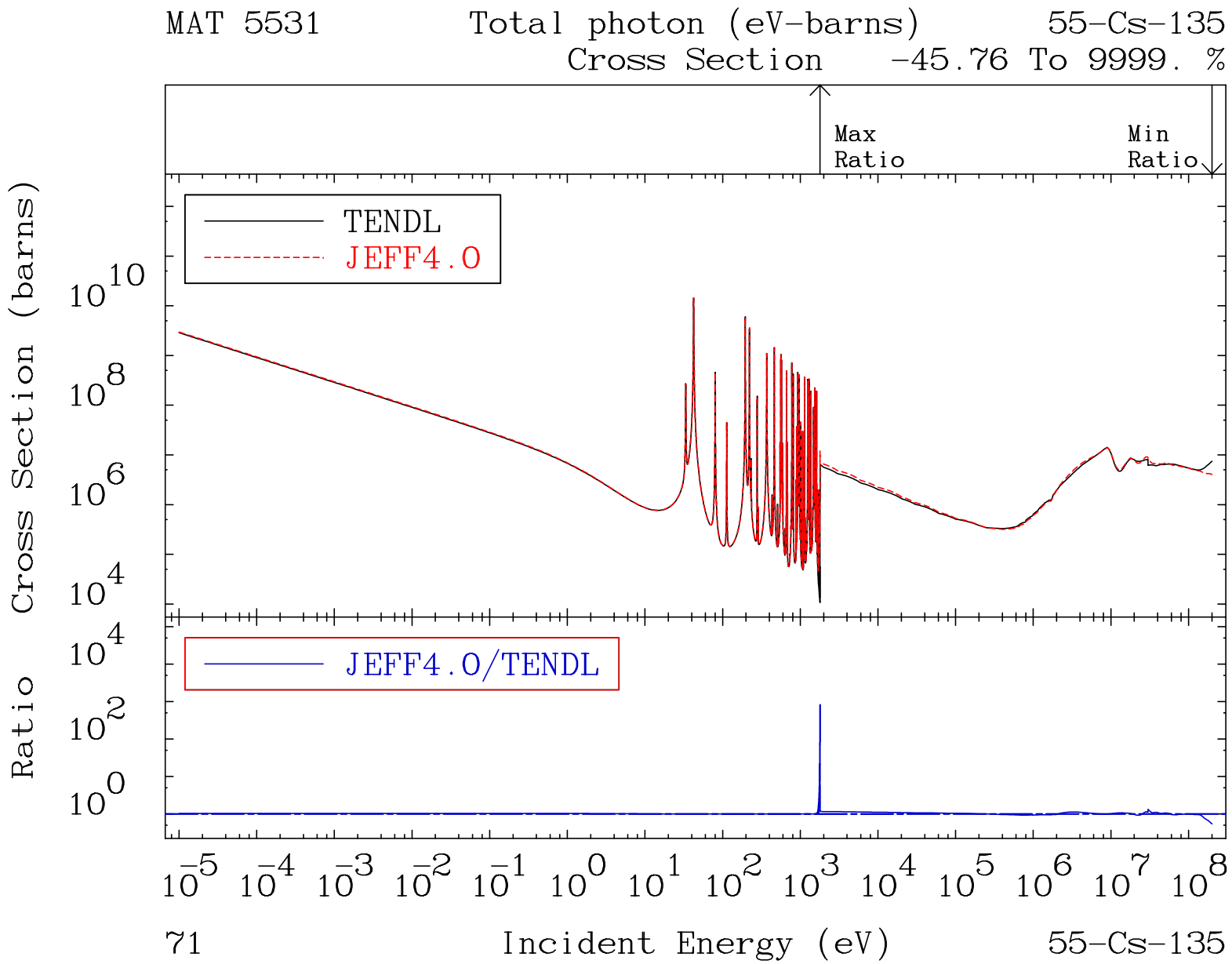

MAT 5531
Kerma elastic
Cross Section
55-Cs-135
-47.81 To 223.4 %
Min Ratio
Max Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
66
55-Cs-135

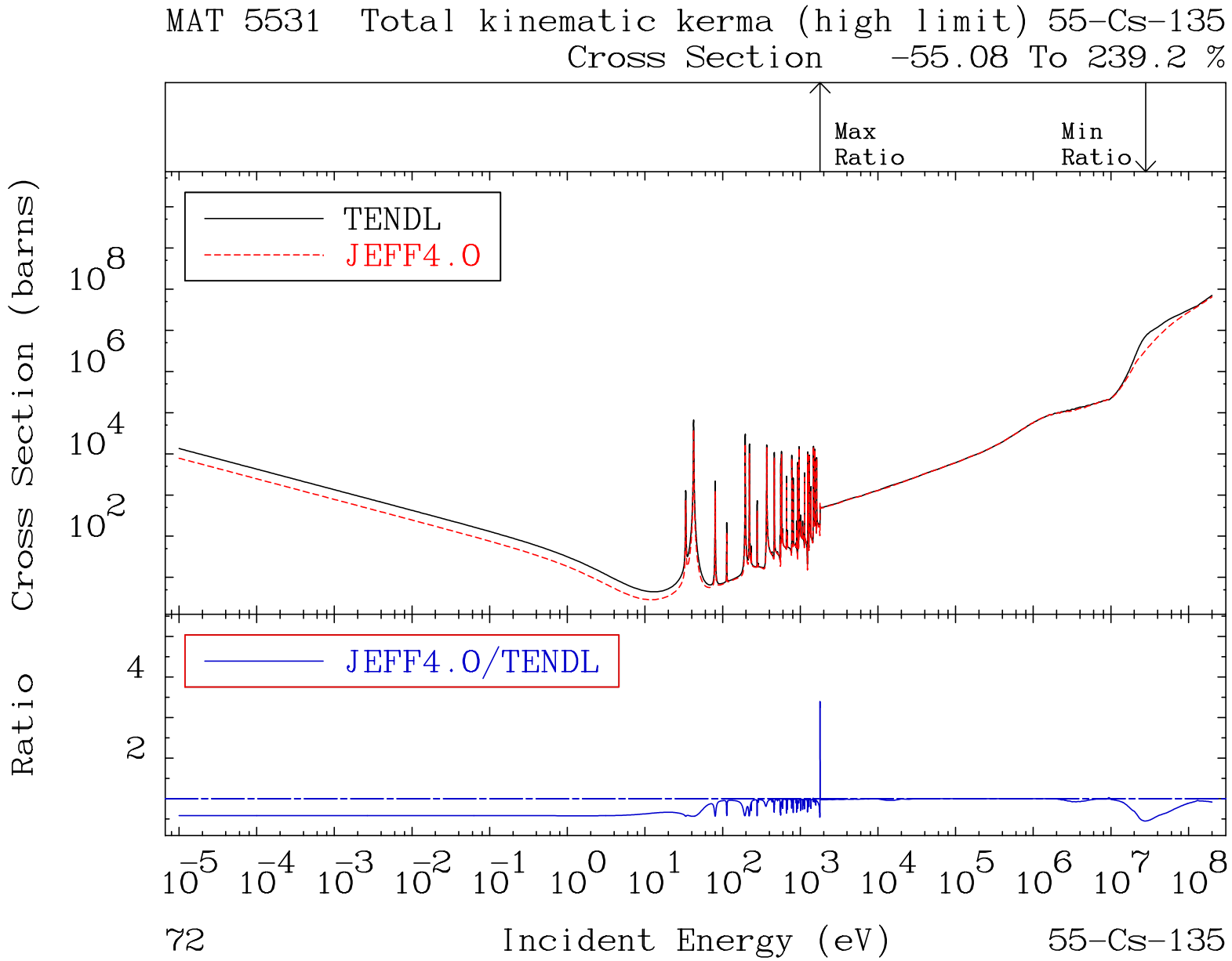

MAT 5531 Kerma non-elastic (all but mt2) 55-Cs-135
Cross Section -54.41 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
67
55-Cs-135

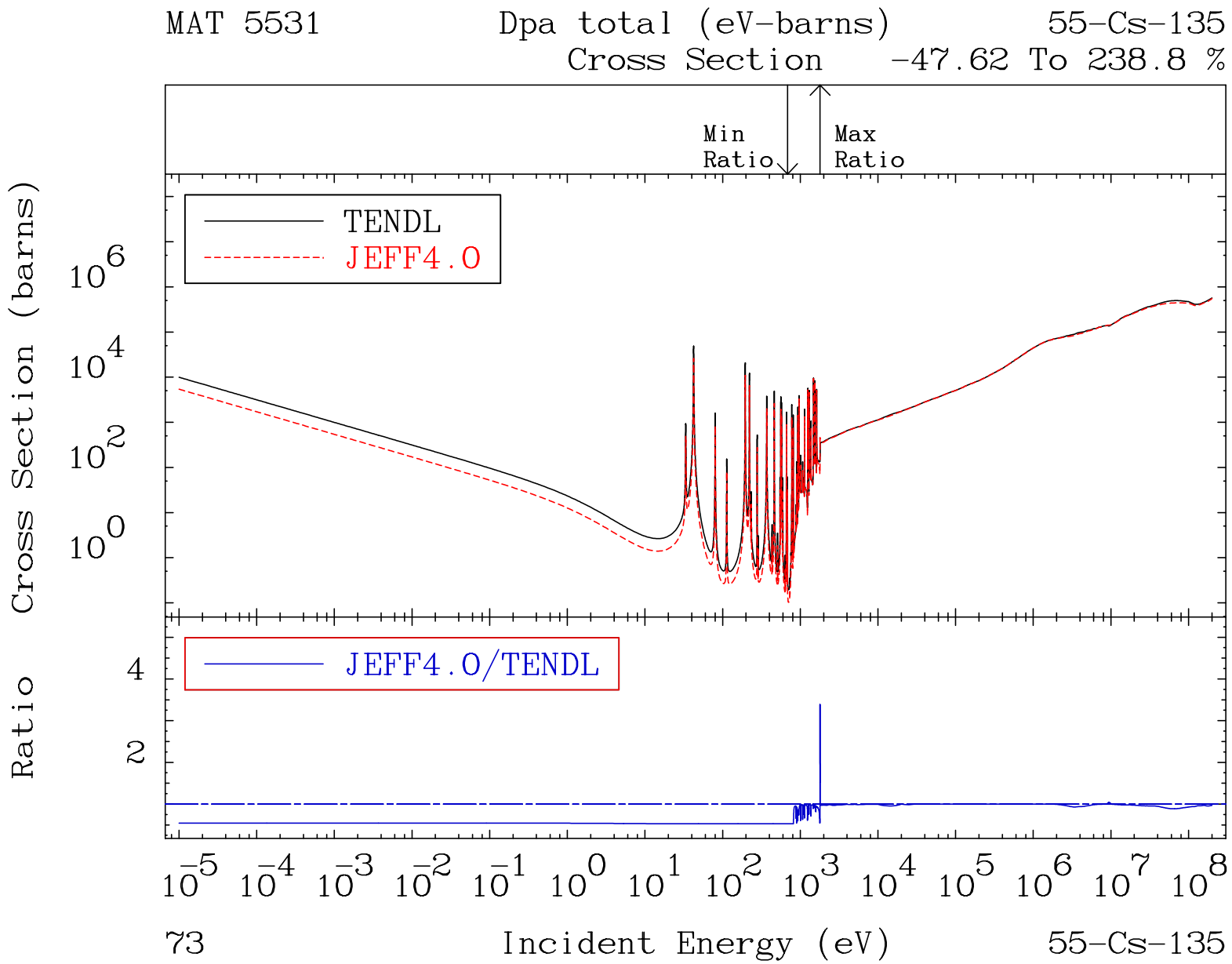

MAT 5531
Kerma inelastic (mt51-91)
55-Cs-135
Cross Section
-50.97 To 53.85 %
Max Ratio
Min Ratio
TENDL Threshold 251.63 keV
JEFF4.0 Threshold 251.63 keV
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
68
55-Cs-135

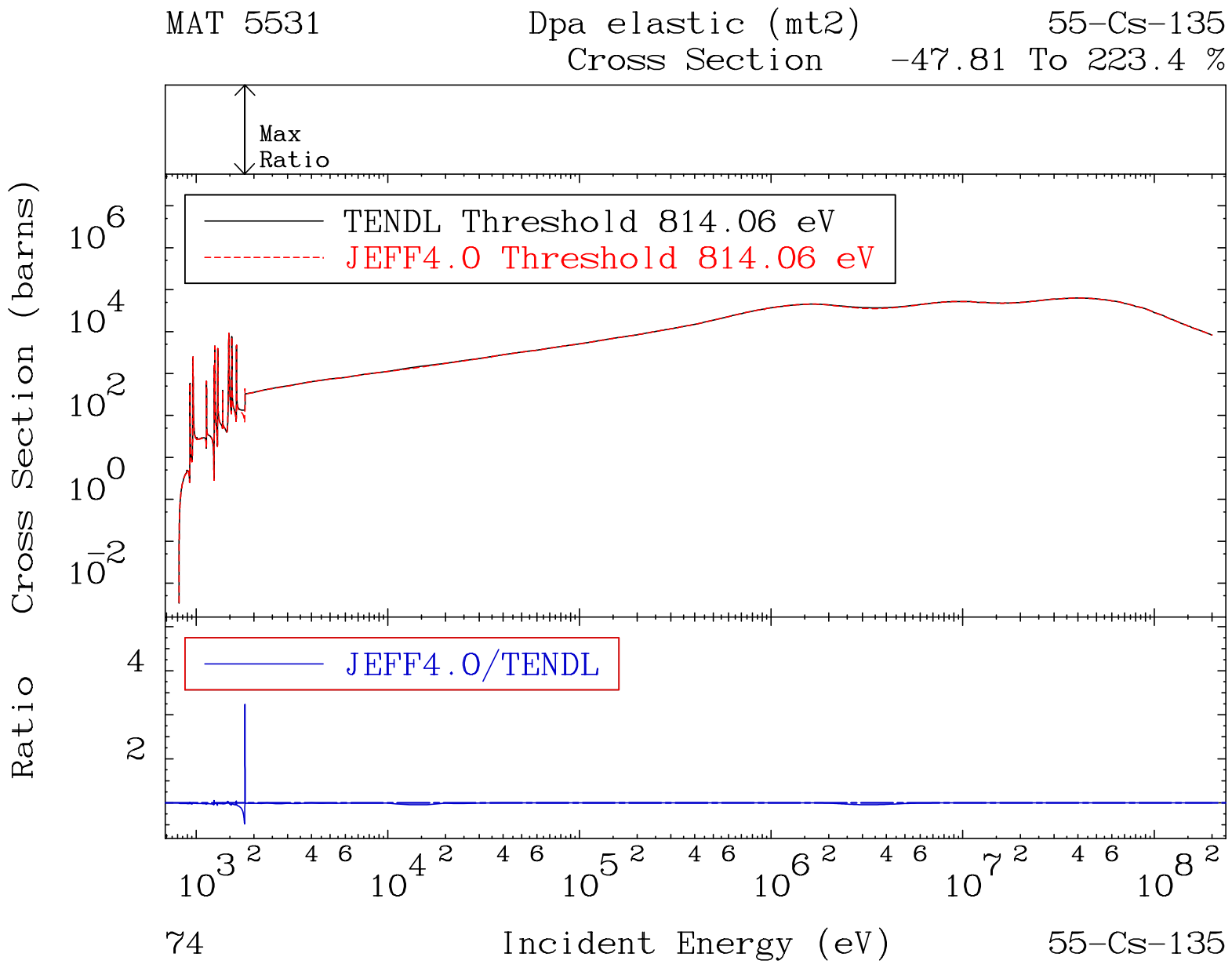

MAT 5531 Kerma fission (mt18 or mt19-20-21-38) 55-Cs-135
Cross Section -50.97 To 53.85 %
Max
Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
1.8
1.2
0.6
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
69
Incident Energy (eV)
55-Cs-135

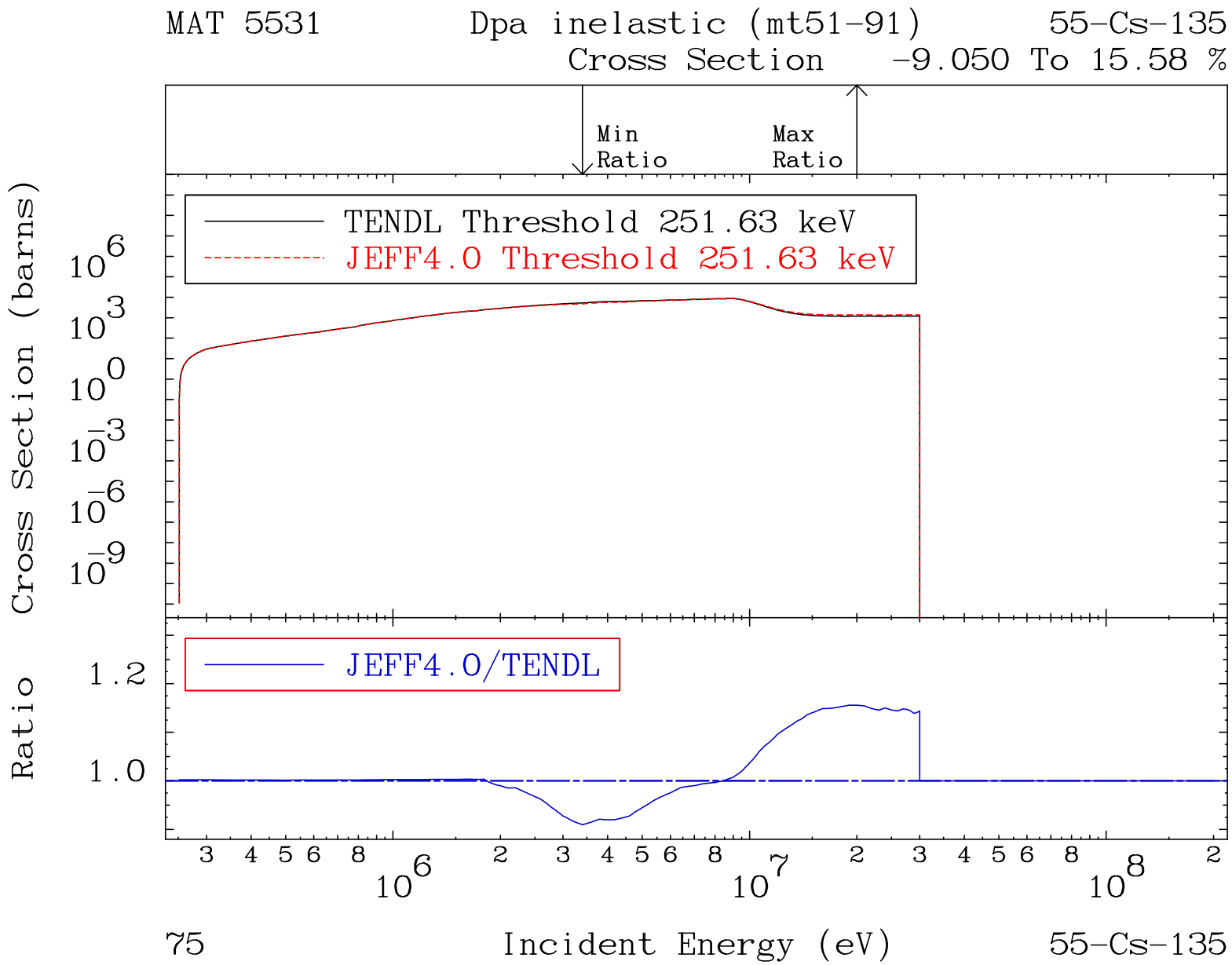

MAT 5531
Kerma capture (mt102)
55-Cs-135
Cross Section -78.08 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
70
55-Cs-135

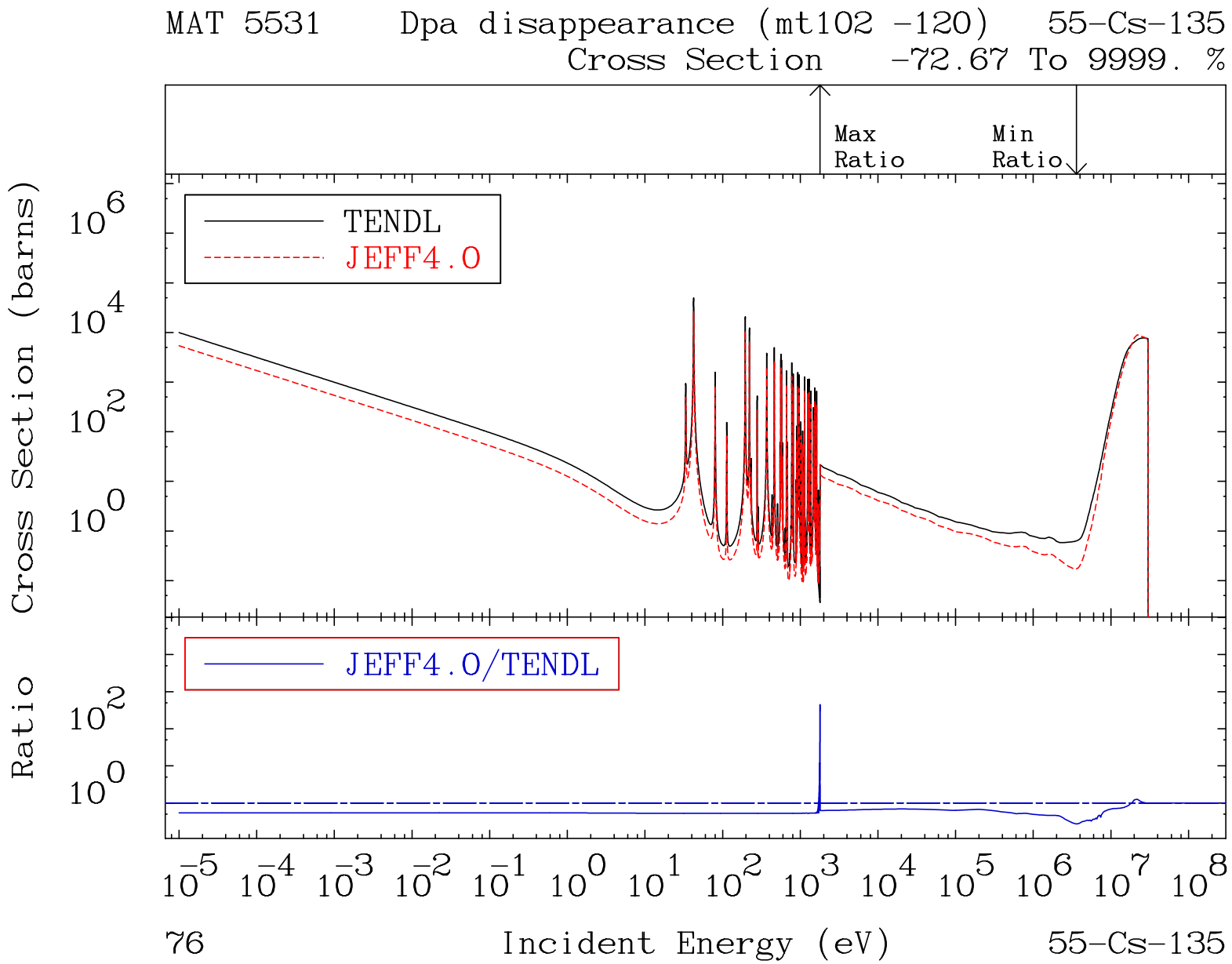

MAT 5531
Total photon (eV-barns)
55-Cs-135
Cross Section -45.76 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
71
55-Cs-135

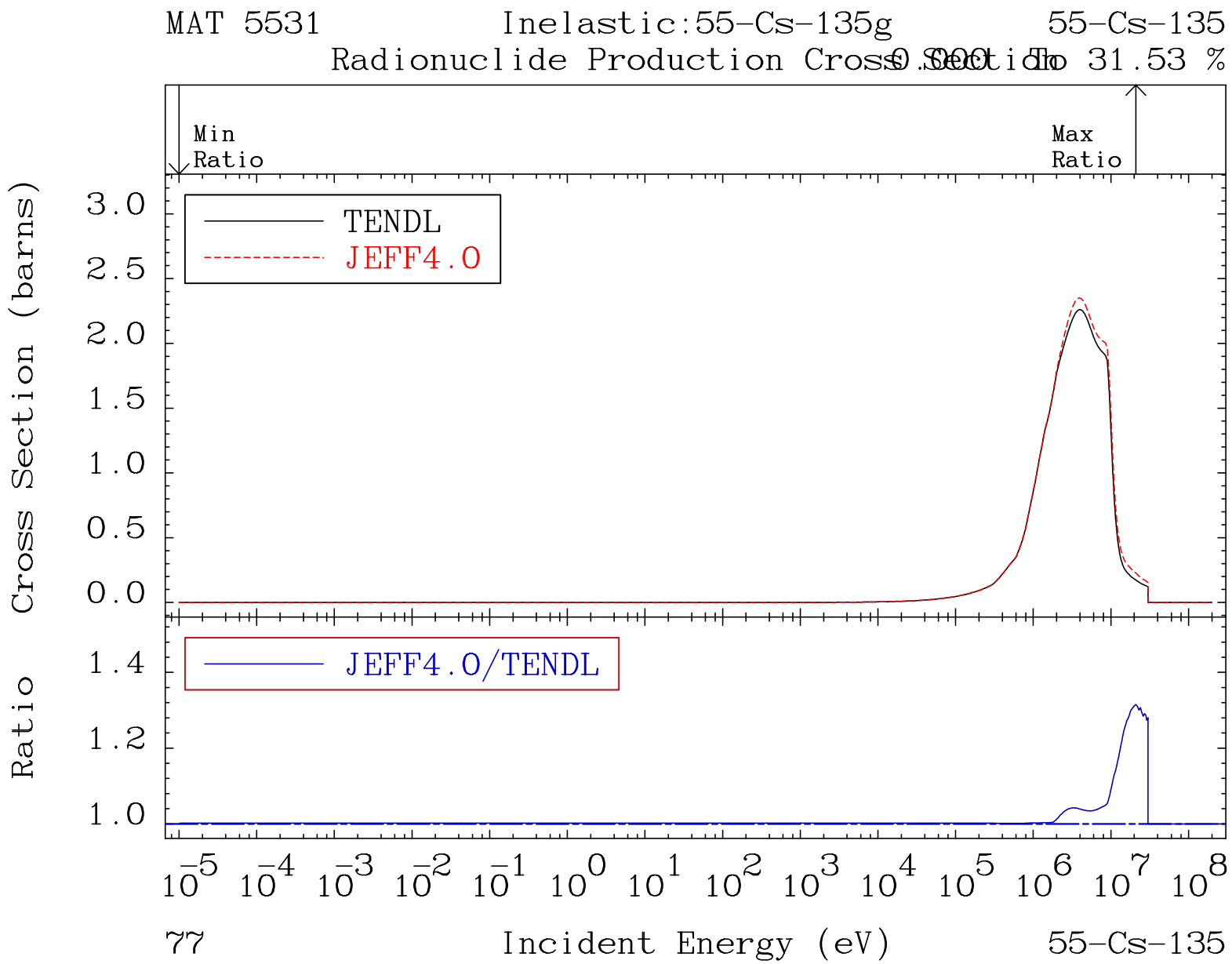

MAT 5531 Total kinematic kerma (high limit) 55-Cs-135
Cross Section -55.08 To 239.2 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
72
55-Cs-135

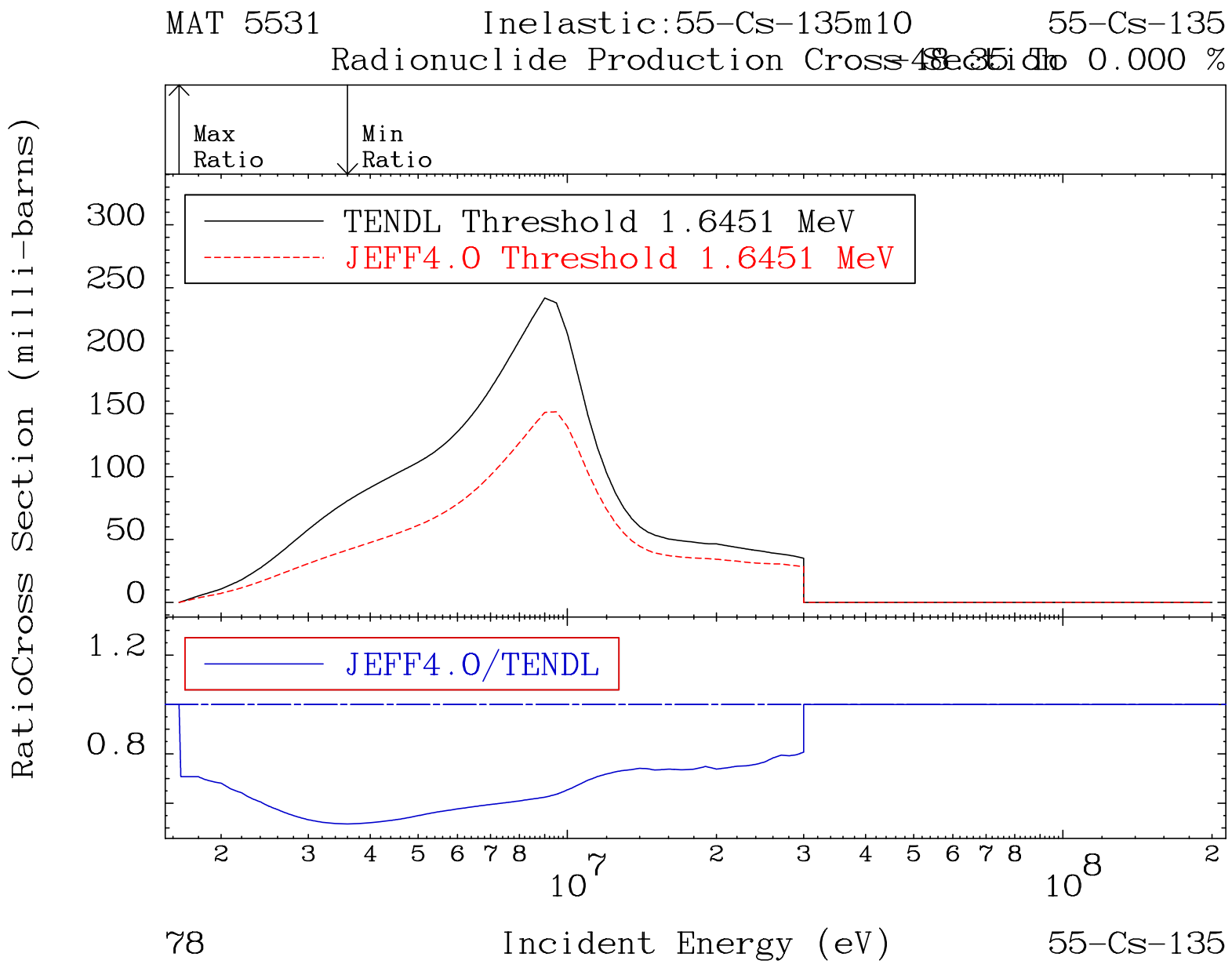

MAT 5531
Dpa total (eV-barns)
55-Cs-135
Cross Section -47.62 To 238.8 %
Min Ratio
Max Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
73
55-Cs-135

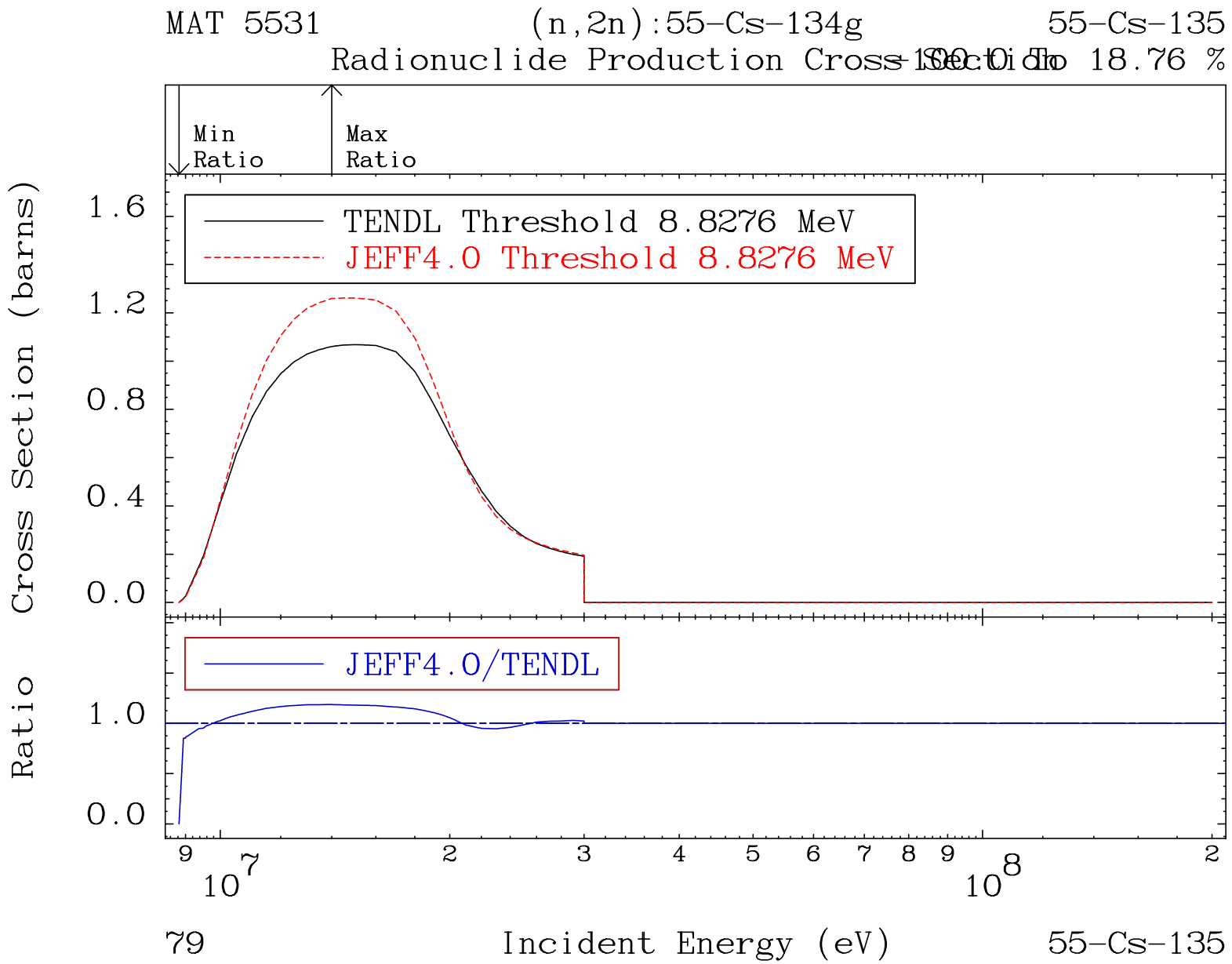

MAT 5531
Dpa elastic (mt2)
Cross Section
55-Cs-135
-47.81 To 223.4 %
Max
Ratio
TENDL Threshold 814.06 eV
JEFF4.0 Threshold 814.06 eV
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
74
55-Cs-135

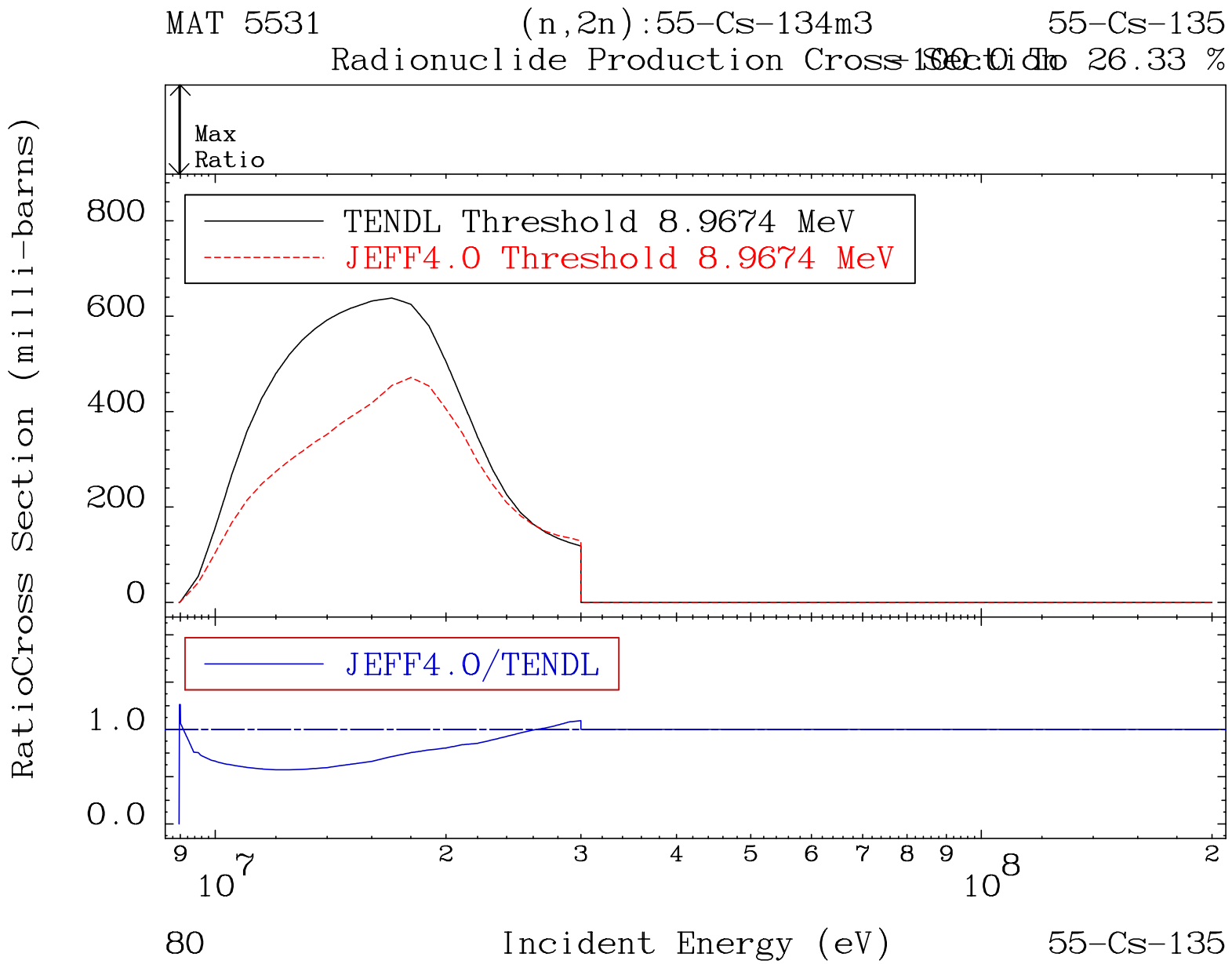

MAT 5531
Dpa inelastic (mt51-91)
55-Cs-135
Cross Section
-9.050 To 15.58 %
Min Ratio
Max Ratio
TENDL Threshold 251.63 keV
JEFF4.0 Threshold 251.63 keV
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
75
55-Cs-135

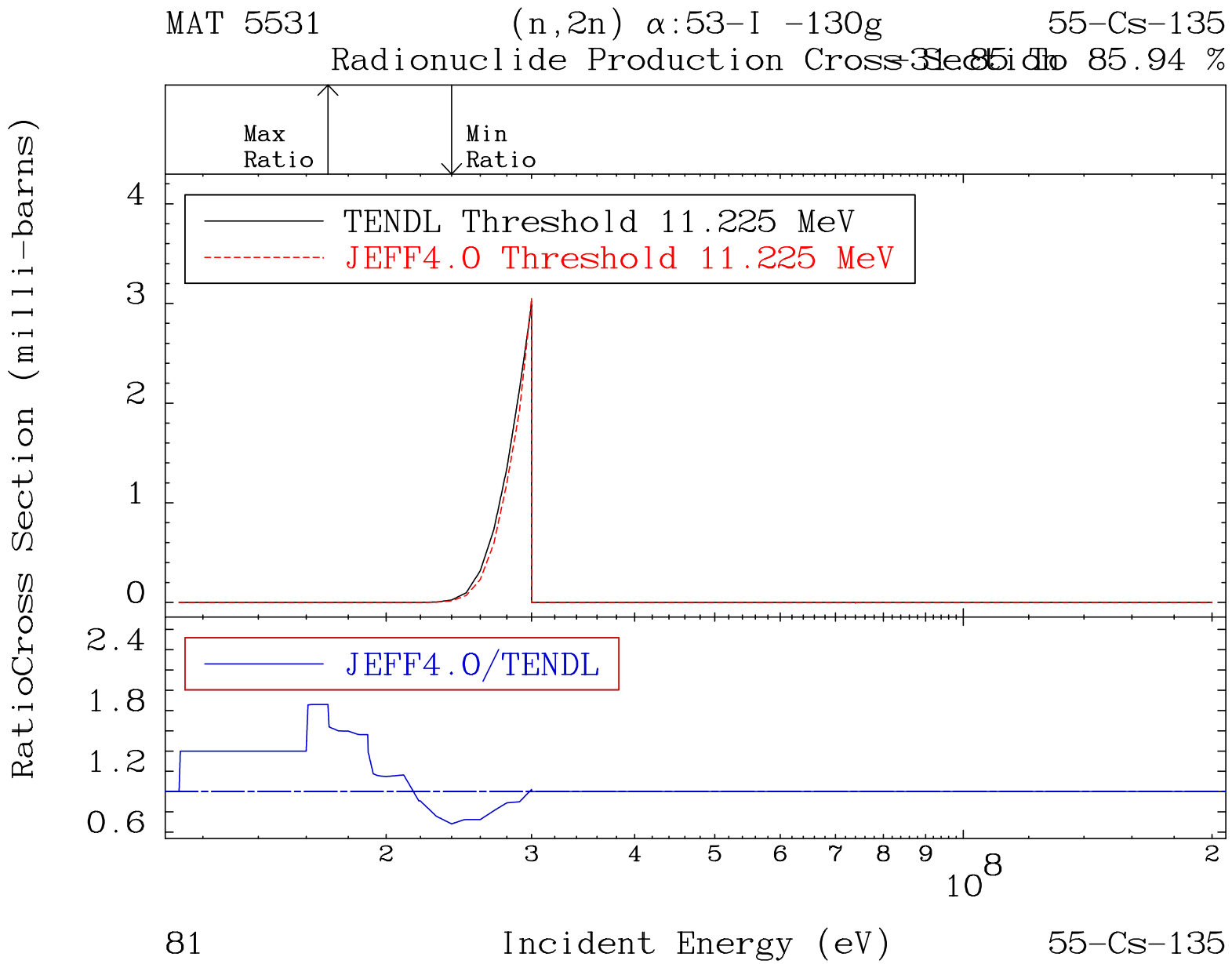

MAT 5531 Dpa disappearance (mt102 -120) 55-Cs-135
Cross Section -72.67 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
76
55-Cs-135

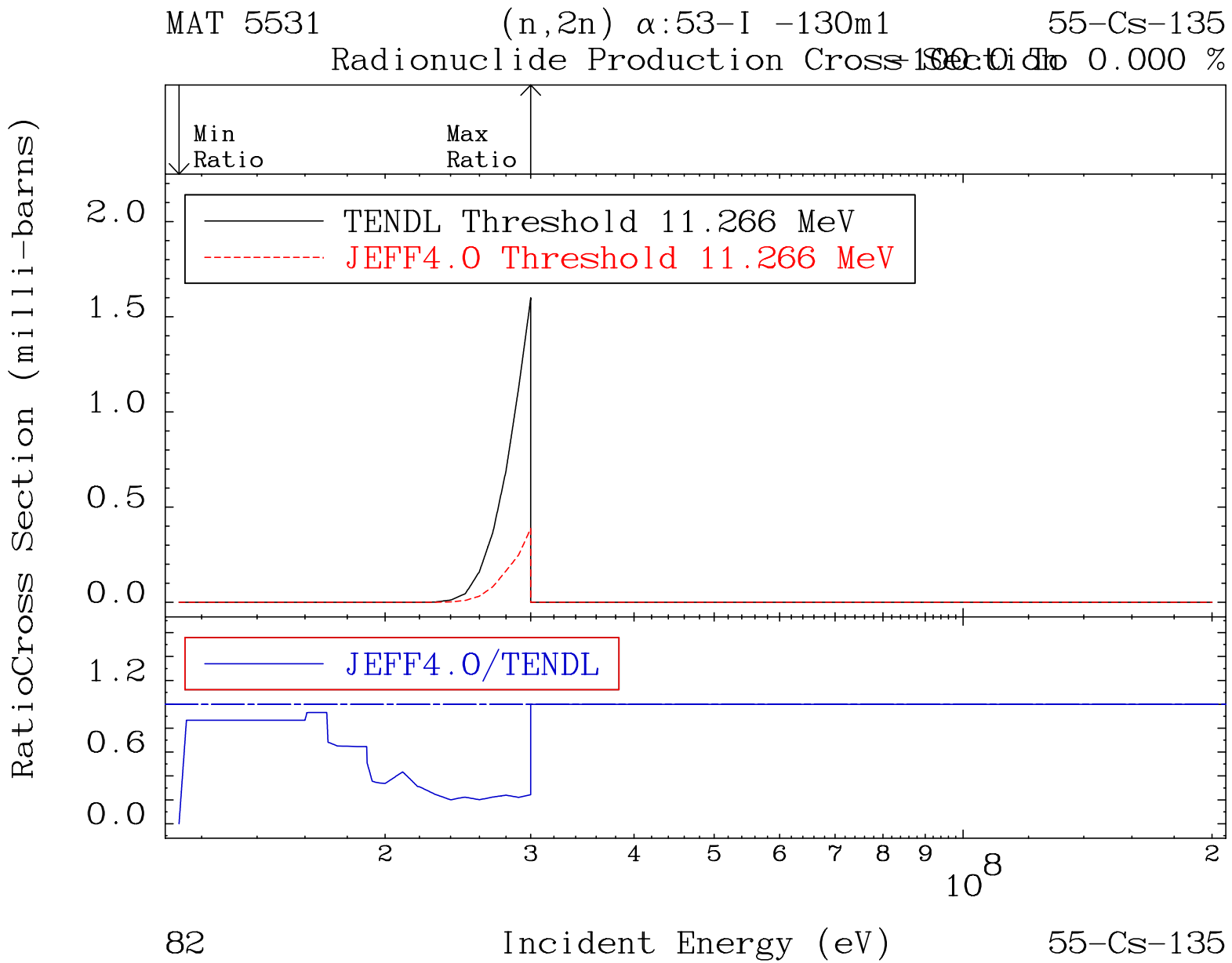

MAT 5531
Inelastic:55-Cs-135g
55-Cs-135
Radionuclide Production Cross Section
0.000 To 31.53 %
Min Ratio
Max Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.4
1.2
1.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
77
Incident Energy (eV)
55-Cs-135

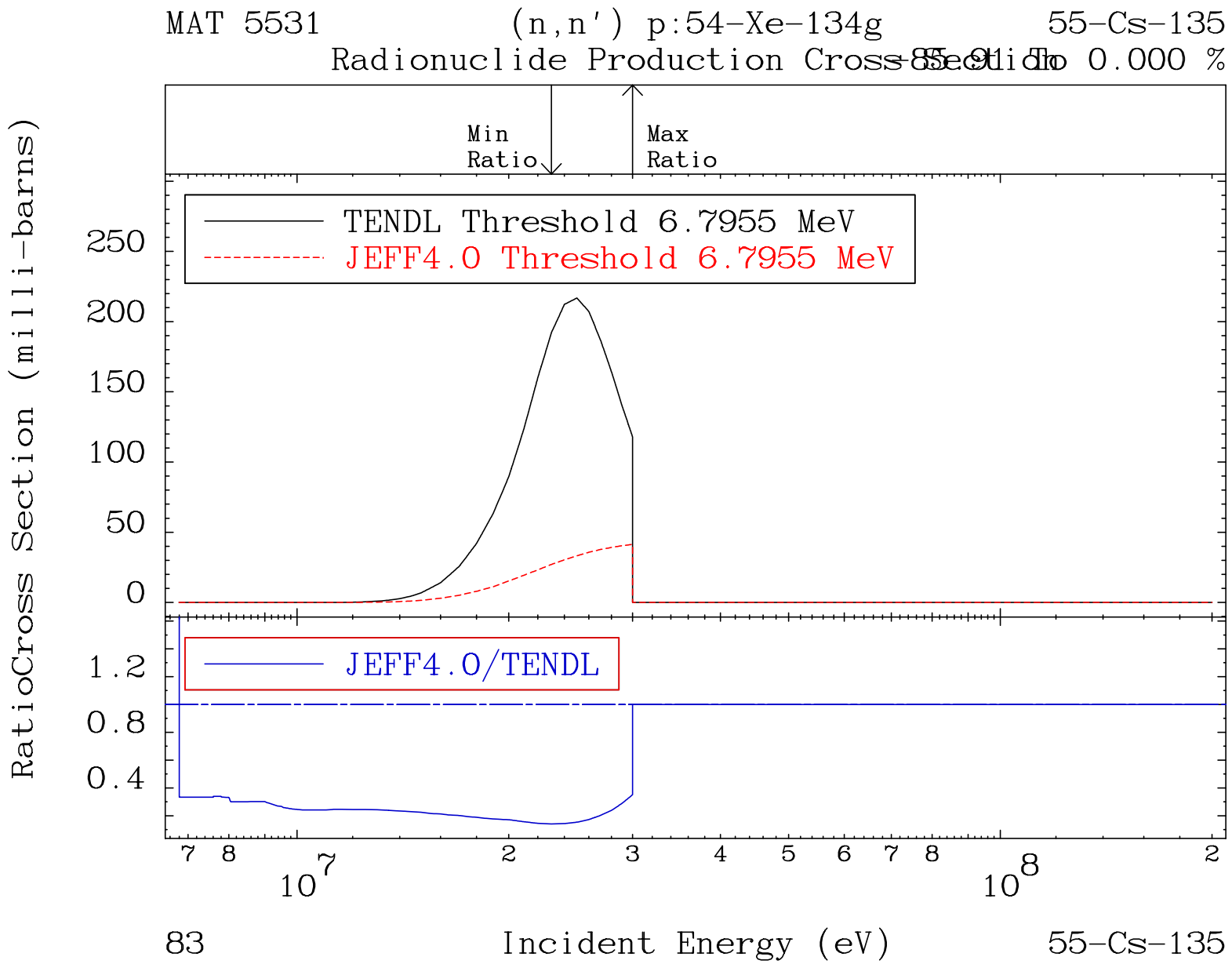

MAT 5531
Inelastic:55-Cs-135m10
55-Cs-135
Radionuclide Production Cross Section To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 1.6451 MeV
JEFF4.0 Threshold 1.6451 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
1.2
0.8
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
78
Incident Energy (eV)
55-Cs-135

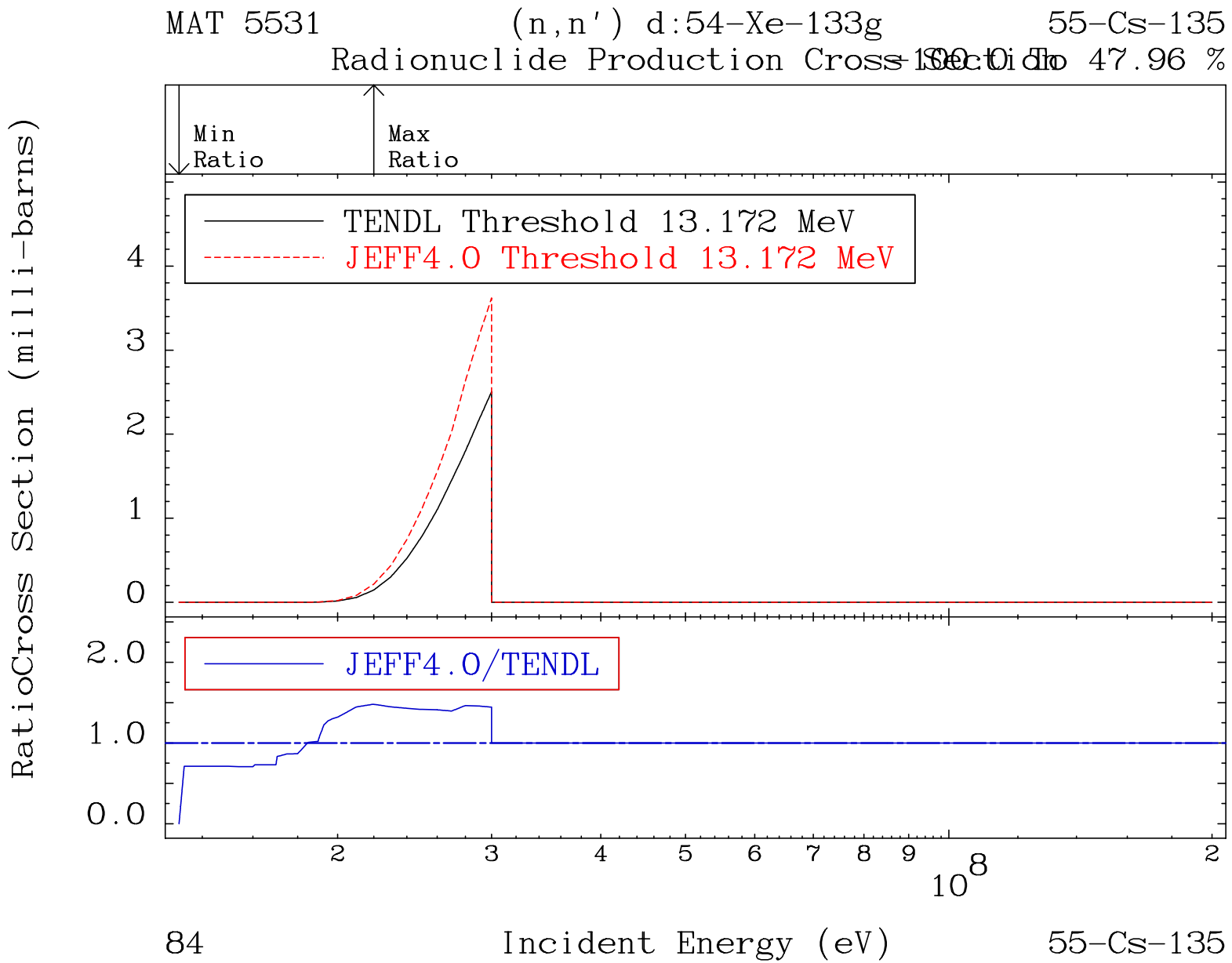

MAT 5531
(n,2n):55-Cs-134g
55-Cs-135
Radionuclide Production Cross Section To 18.76 %
Min Ratio
Max Ratio
TENDL Threshold 8.8276 MeV
JEFF4.0 Threshold 8.8276 MeV
JEFF4.0/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
79
Incident Energy (eV)
55-Cs-135

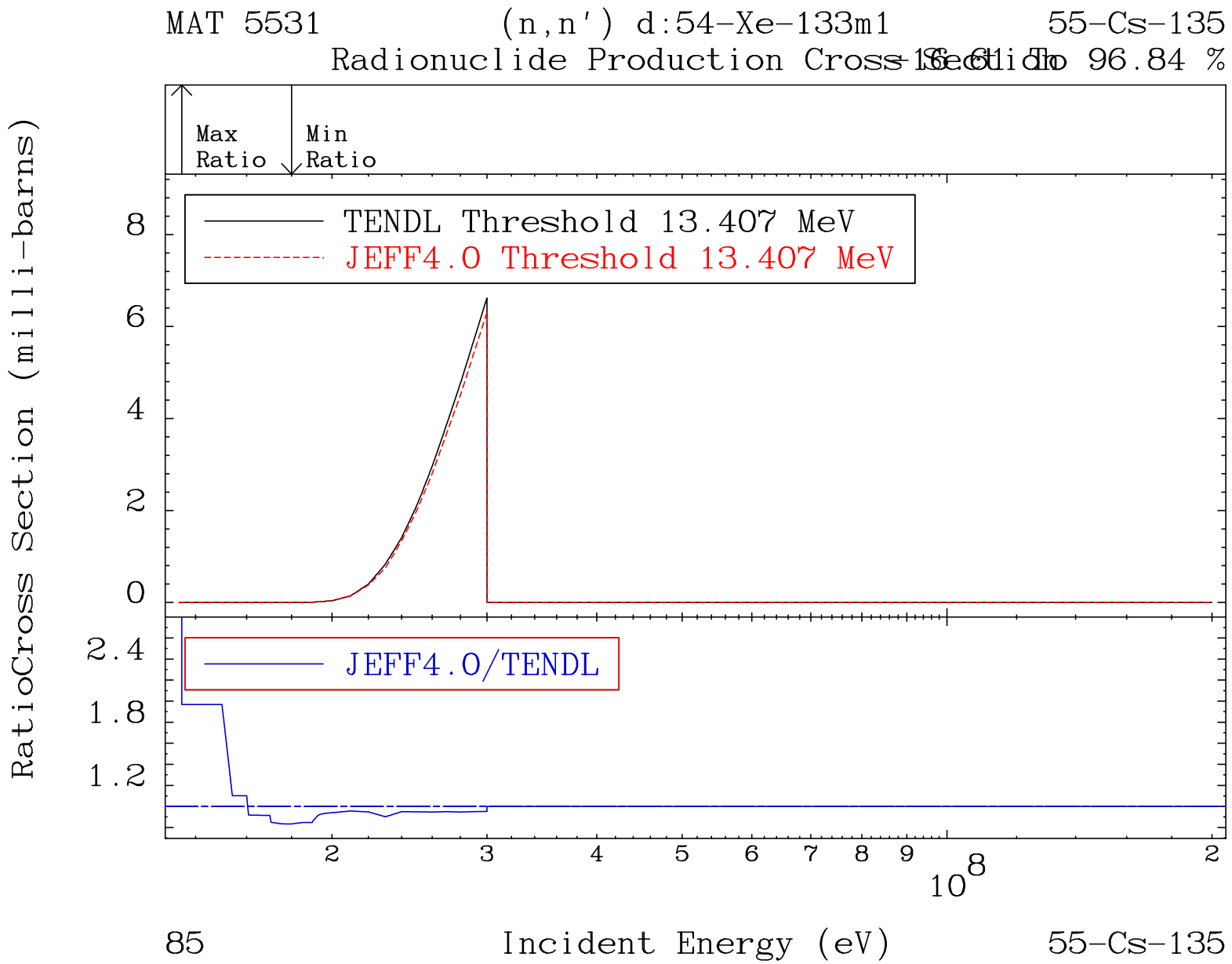

MAT 5531
(n,2n):55-Cs-134m3
55-Cs-135
Radionuclide Production Cross Section
Max Ratio
TENDL Threshold 8.9674 MeV
JEFF4.0 Threshold 8.9674 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
80
Incident Energy (eV)
55-Cs-135

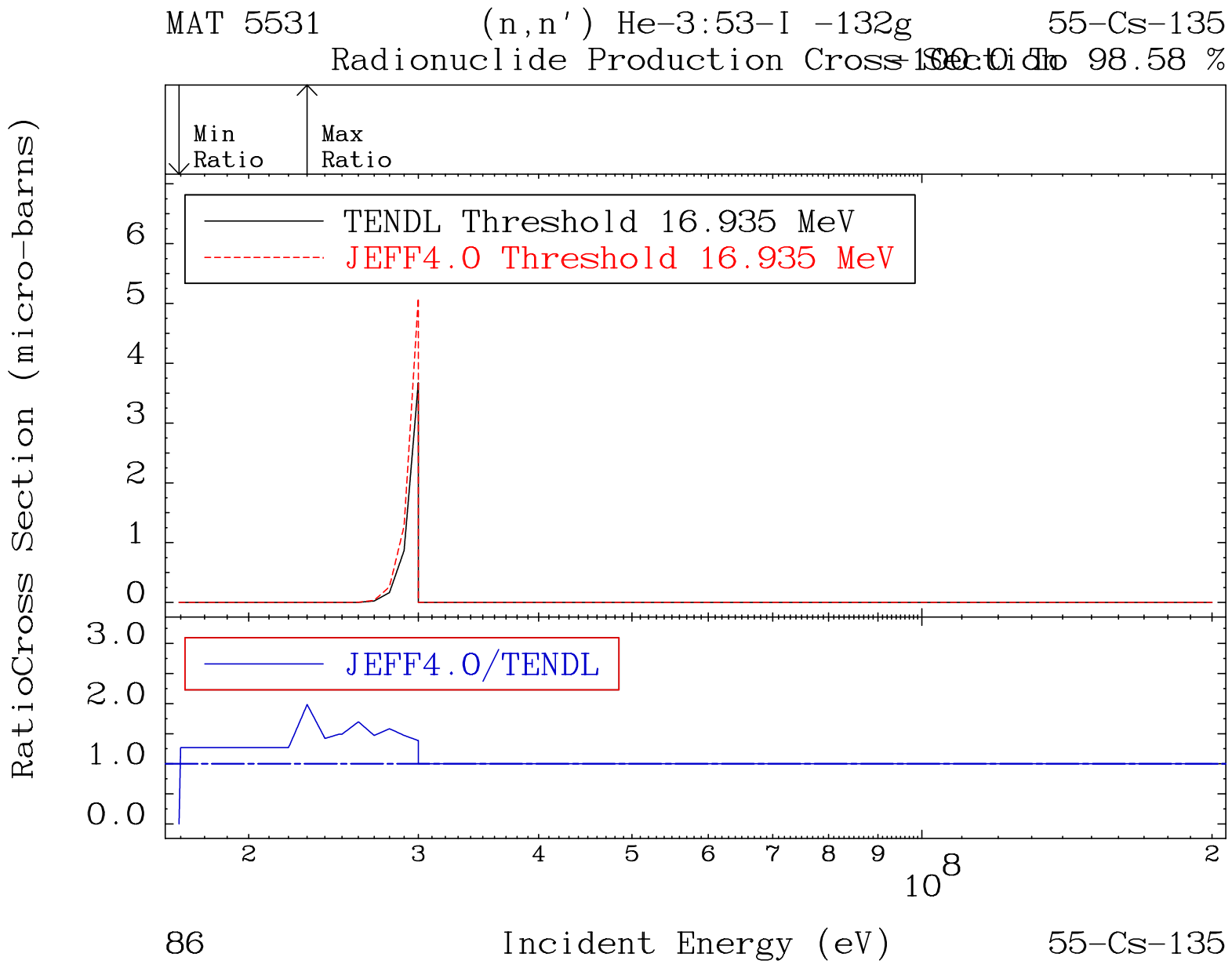

MAT 5531
(n,2n) α:53-I -130g
55-Cs-135
Radionuclide Production Cross-Section To 85.94 %
Max Ratio
Min Ratio
TENDL Threshold 11.225 MeV
JEFF4.0 Threshold 11.225 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
81
55-Cs-135

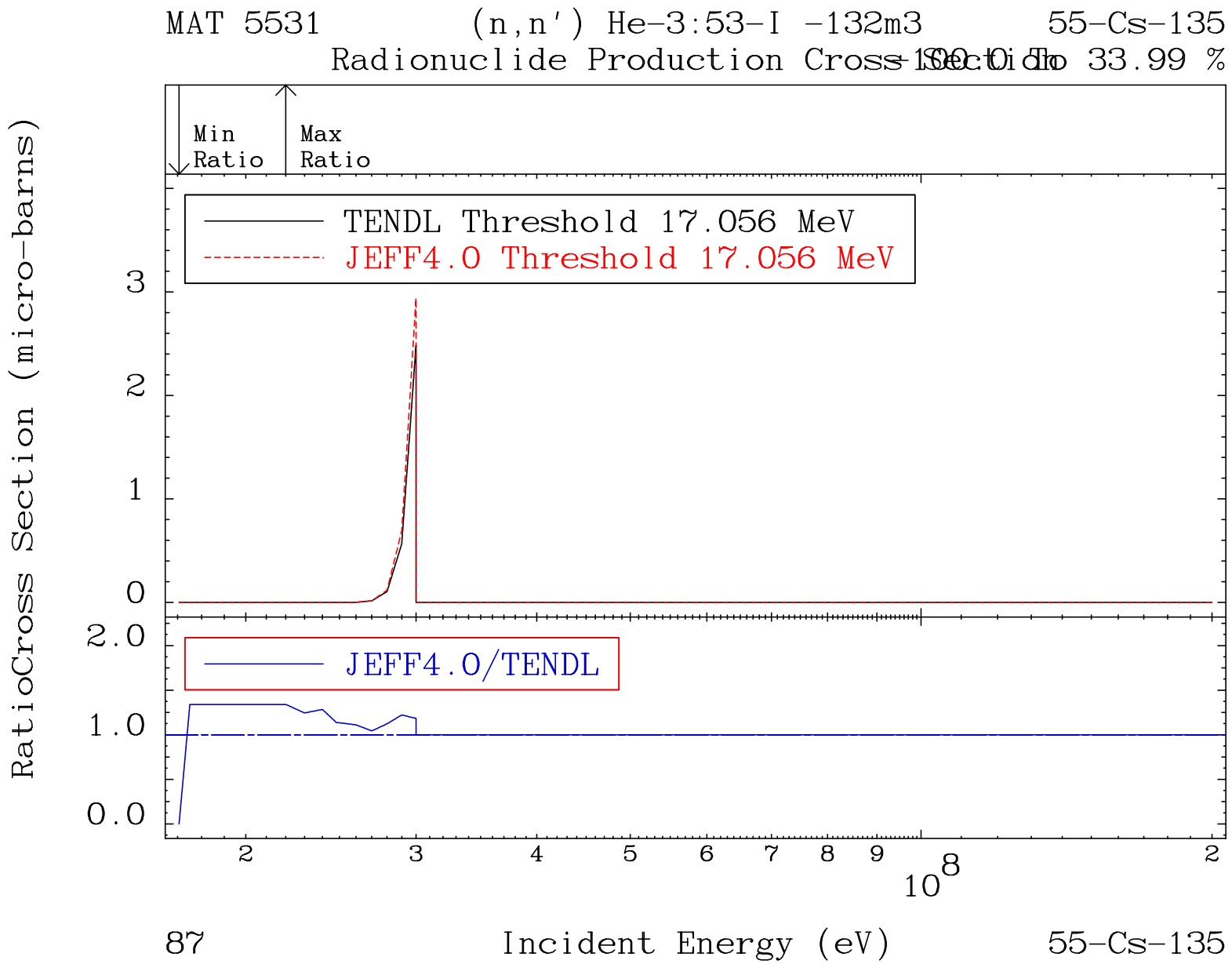

MAT 5531
(n,2n) α:53-I -130m1
55-Cs-135
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 11.266 MeV
JEFF4.0 Threshold 11.266 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
2
10^8
82
Incident Energy (eV)
55-Cs-135

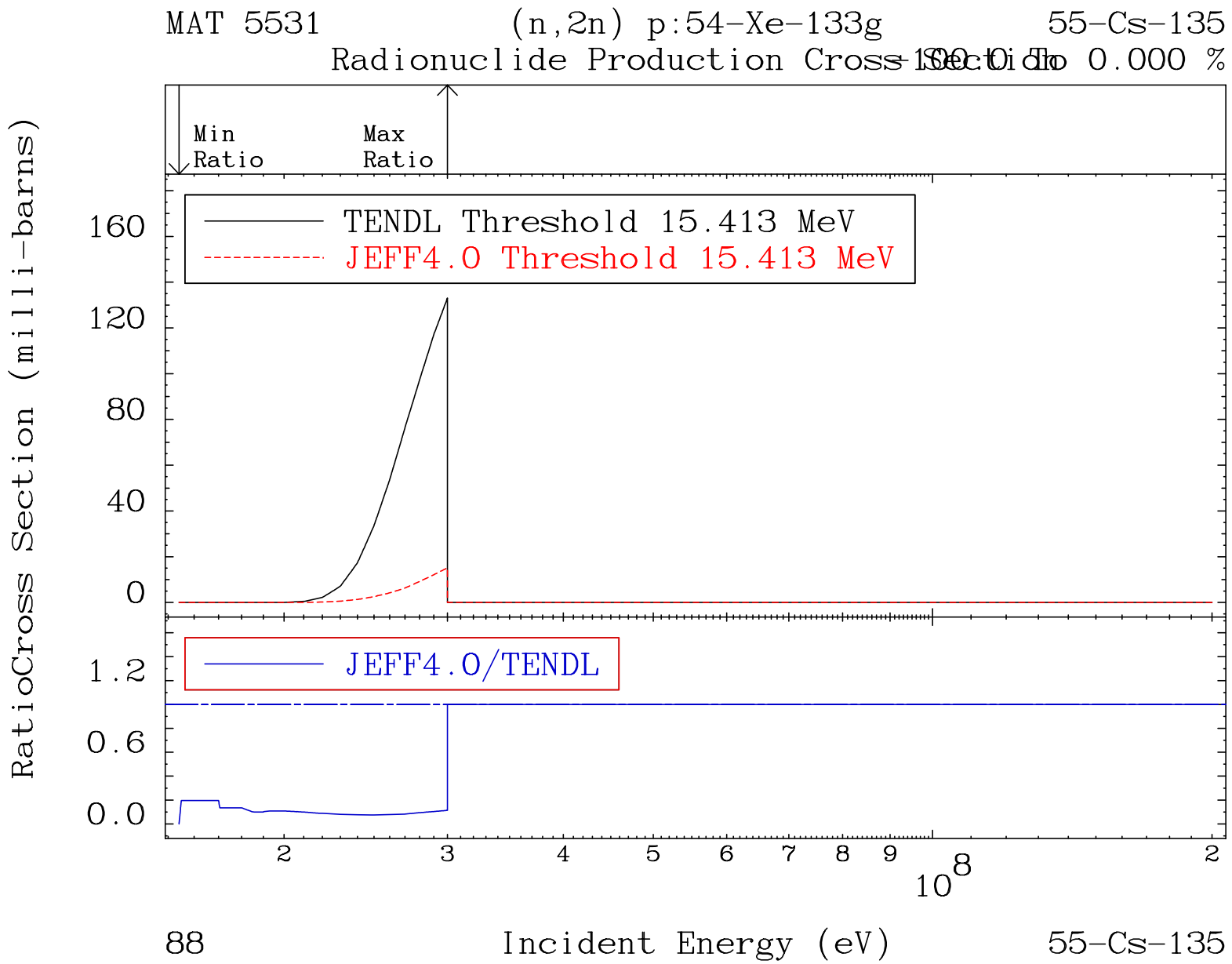

MAT 5531
(n,n') p:54-Xe-134g
55-Cs-135
Radionuclide Production Cross Section To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 6.7955 MeV
JEFF4.0 Threshold 6.7955 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.2
0.8
0.4
7 8
10^7
2 3 4 5 6 7 8
10^8
2
83
Incident Energy (eV)
55-Cs-135

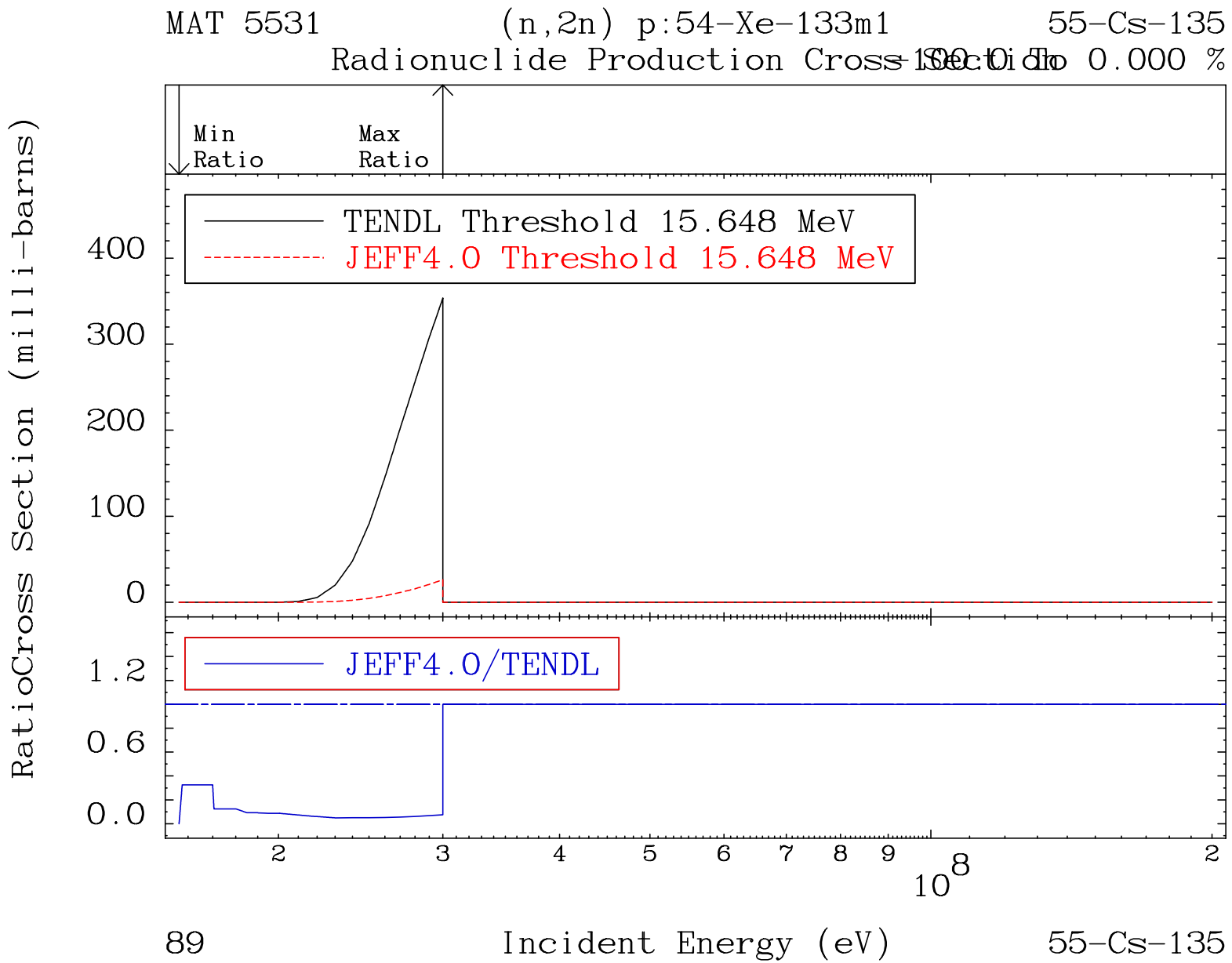

MAT 5531
(n,n') d:54-Xe-133g
55-Cs-135
Radionuclide Production Cross Section To 47.96 %
Min Ratio
Max Ratio
TENDL Threshold 13.172 MeV
JEFF4.0 Threshold 13.172 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
84
55-Cs-135

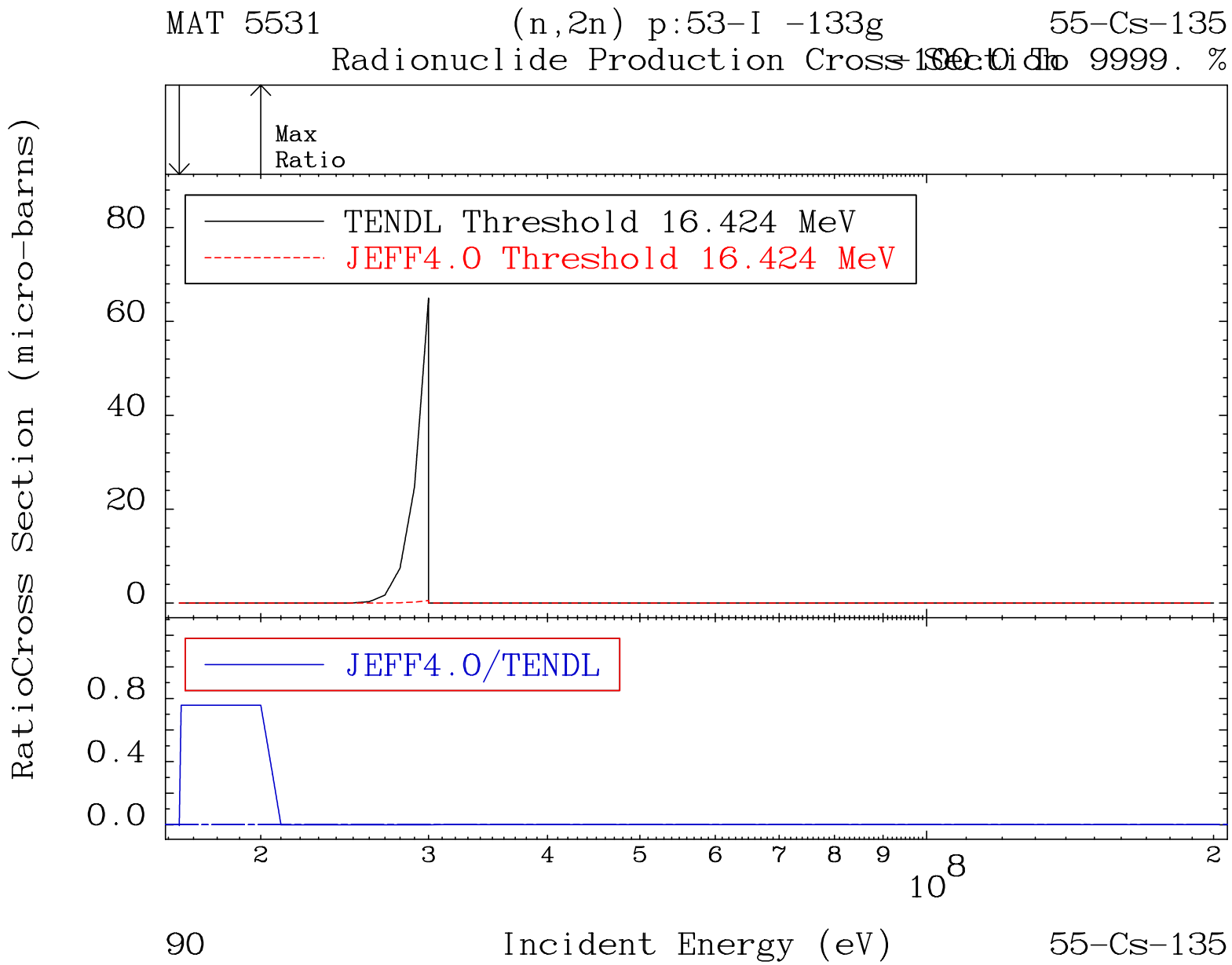

MAT 5531
(n,n') d:54-Xe-133m1
55-Cs-135
Radionuclide Production Cross Section To 96.84 %
Max Ratio
Min Ratio
TENDL Threshold 13.407 MeV
JEFF4.0 Threshold 13.407 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
8
6
4
2
0
2.4
1.8
1.2
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
55-Cs-135

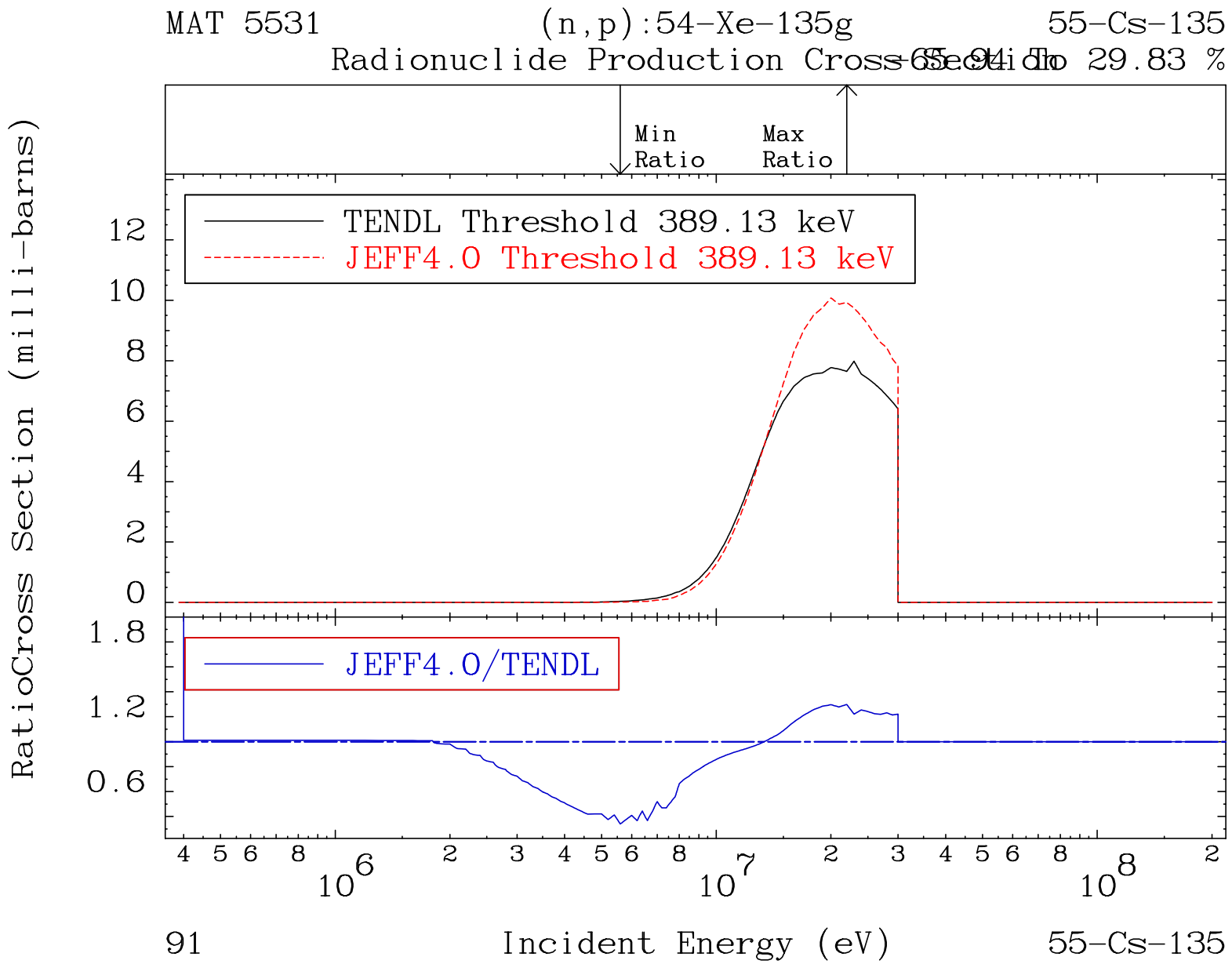

MAT 5531 (n,n') He-3:53-I -132g 55-Cs-135
Radionuclide Production Cross Section To 98.58 %
Min Ratio
Max Ratio
TENDL Threshold 16.935 MeV
JEFF4.0 Threshold 16.935 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
86
55-Cs-135

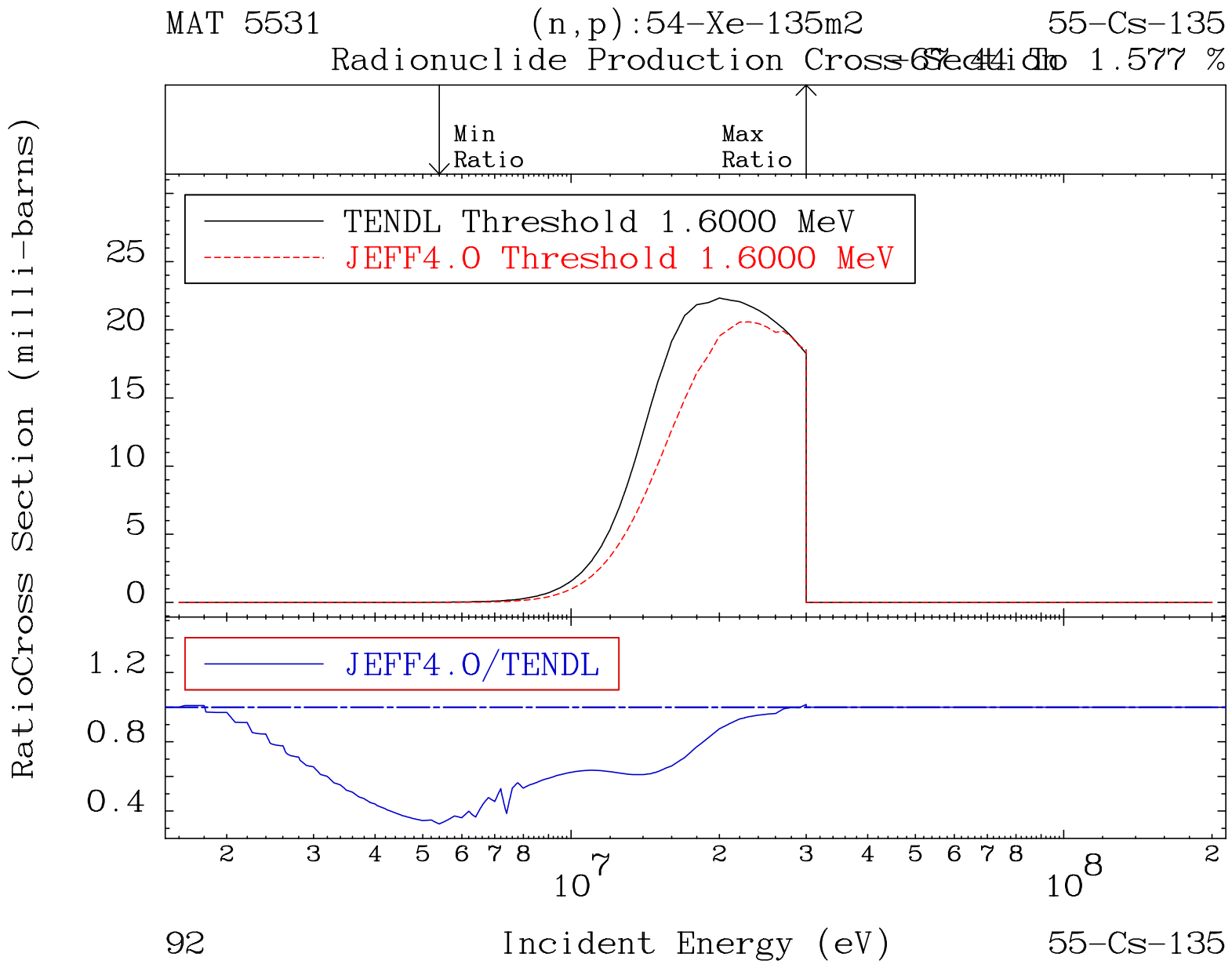

MAT 5531 (n,n') He-3:53-I -132m3 55-Cs-135
Radionuclide Production Cross Section To 33.99 %
Min Ratio
Max Ratio
TENDL Threshold 17.056 MeV
JEFF4.0 Threshold 17.056 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
87
55-Cs-135

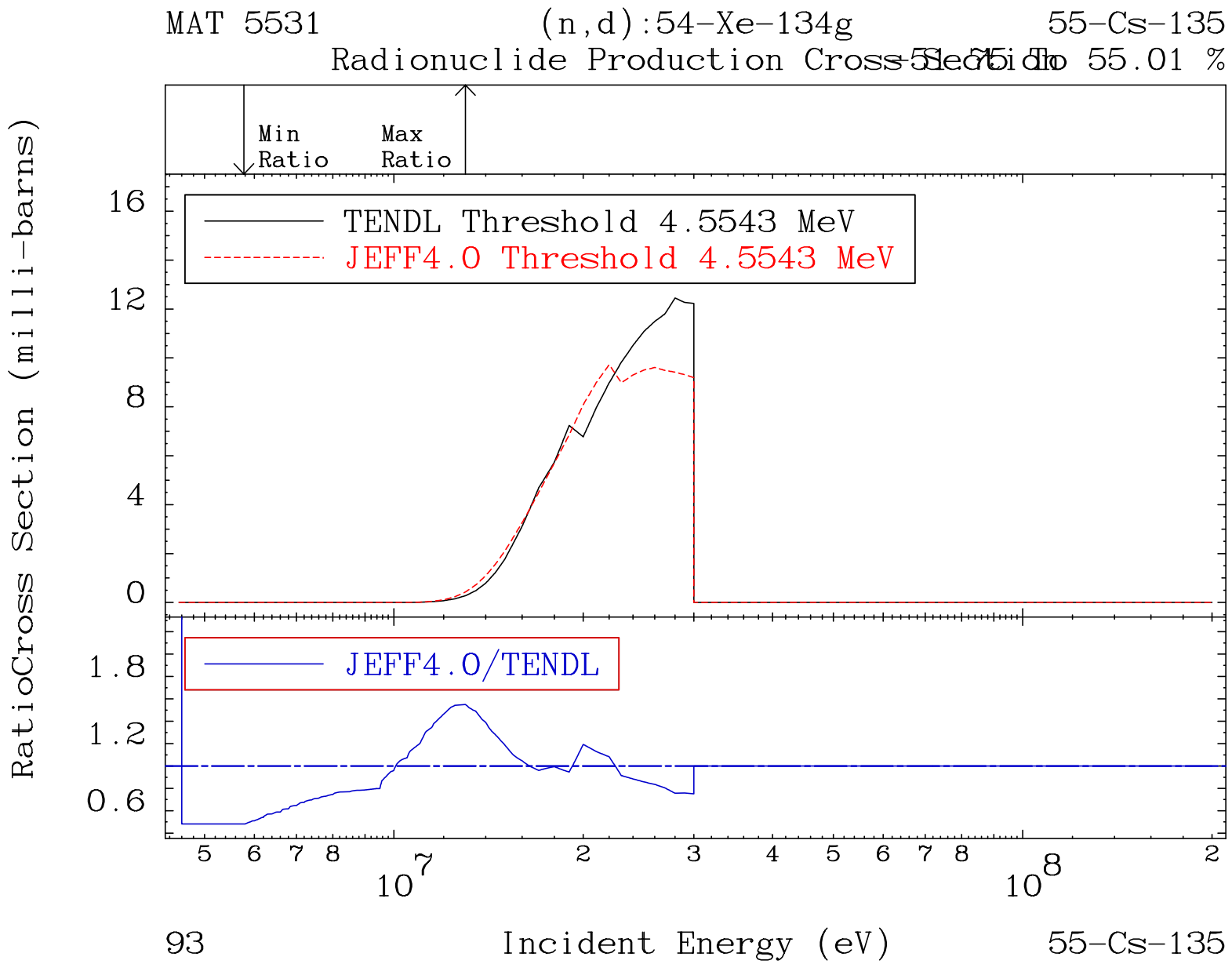

MAT 5531
(n,2n) p:54-Xe-133g
55-Cs-135
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 15.413 MeV
JEFF4.0 Threshold 15.413 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
88
Incident Energy (eV)
55-Cs-135

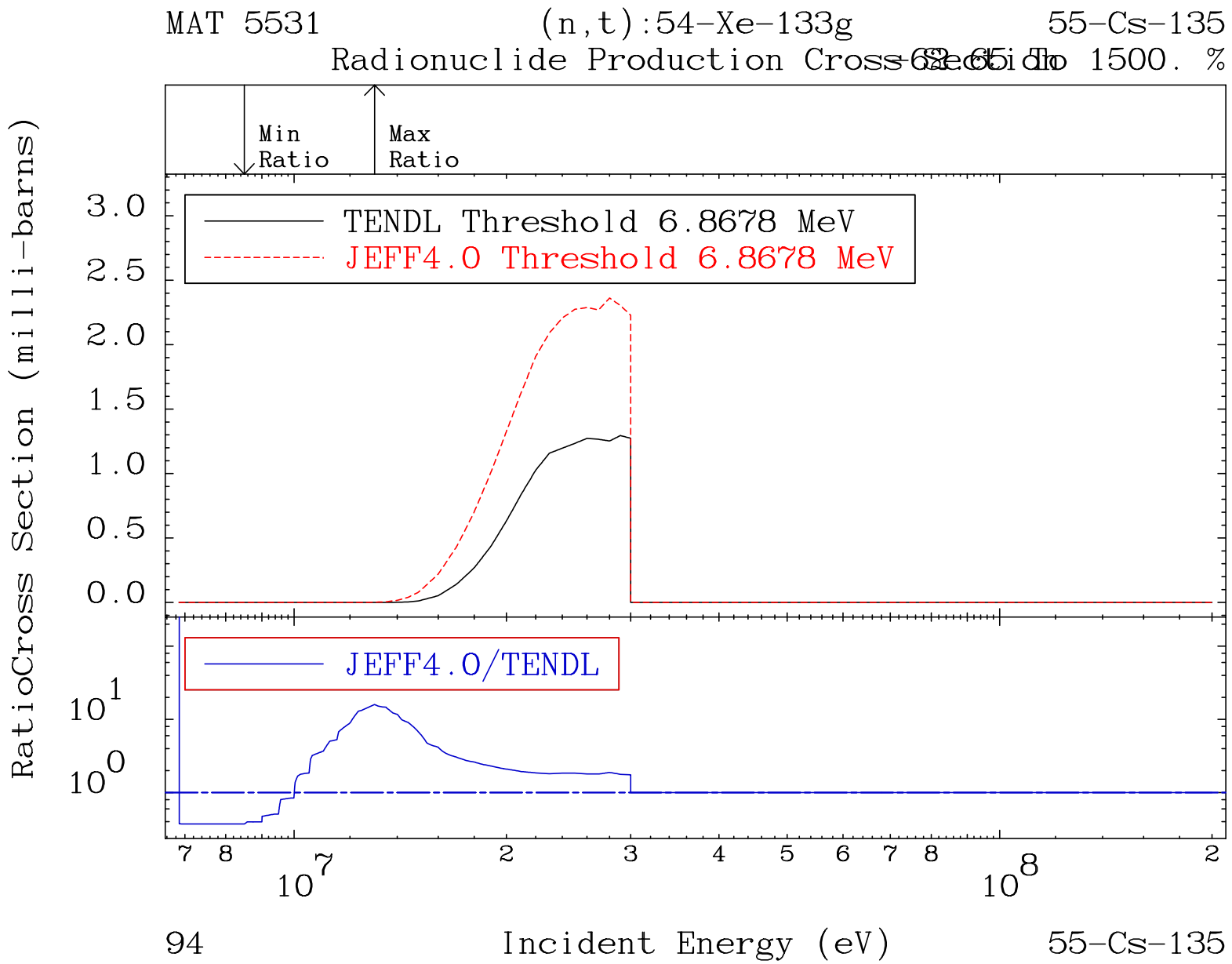

MAT 5531
(n,2n) p:54-Xe-133m1
55-Cs-135
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 15.648 MeV
JEFF4.0 Threshold 15.648 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
89
Incident Energy (eV)
55-Cs-135

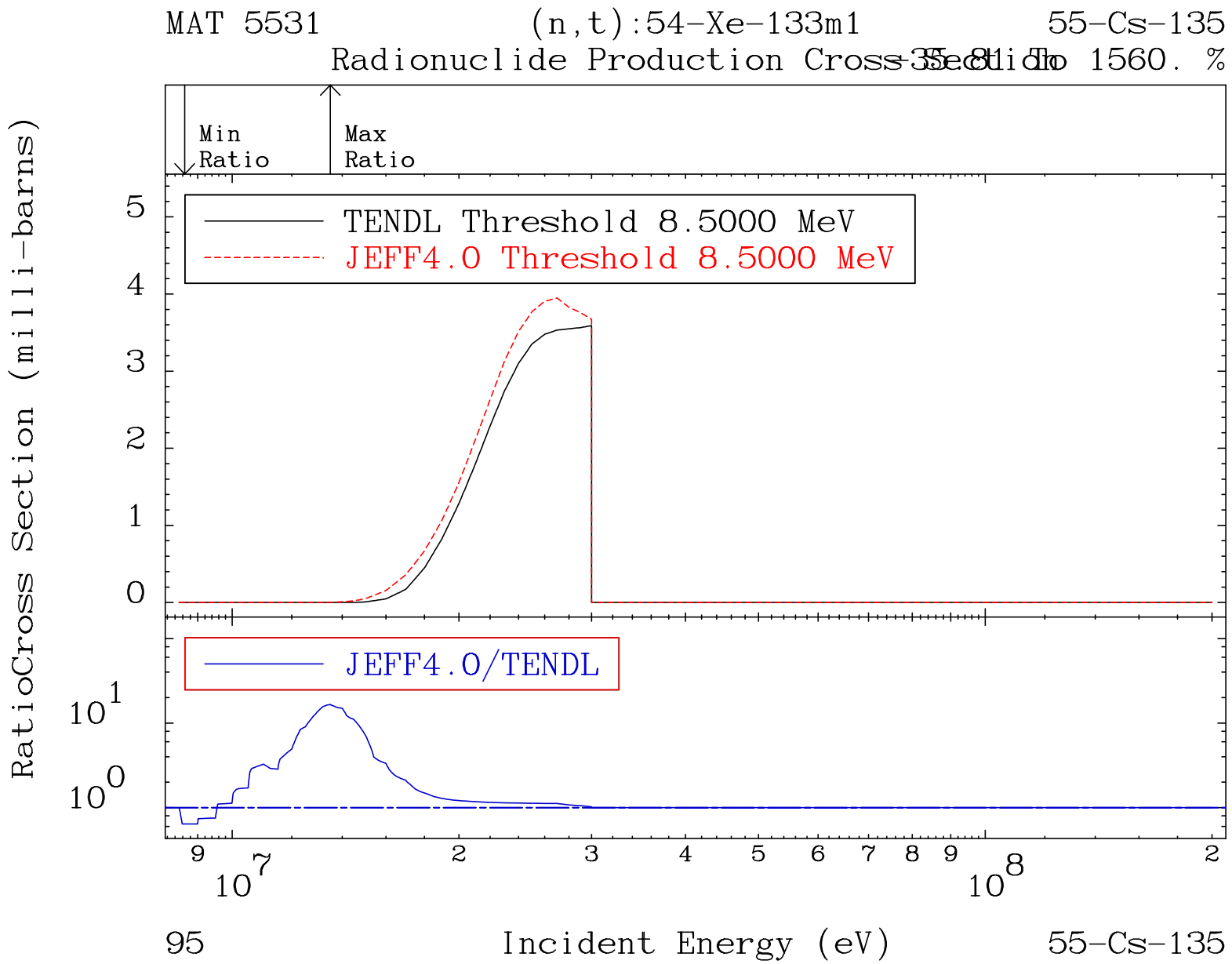

MAT 5531
(n,2n) p:53-I -133g
55-Cs-135
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 16.424 MeV
JEFF4.0 Threshold 16.424 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
80
60
40
20
0
0.8
0.4
0.0
2
3
4
5
6
7
8
9
2
10^8
90
Incident Energy (eV)
55-Cs-135

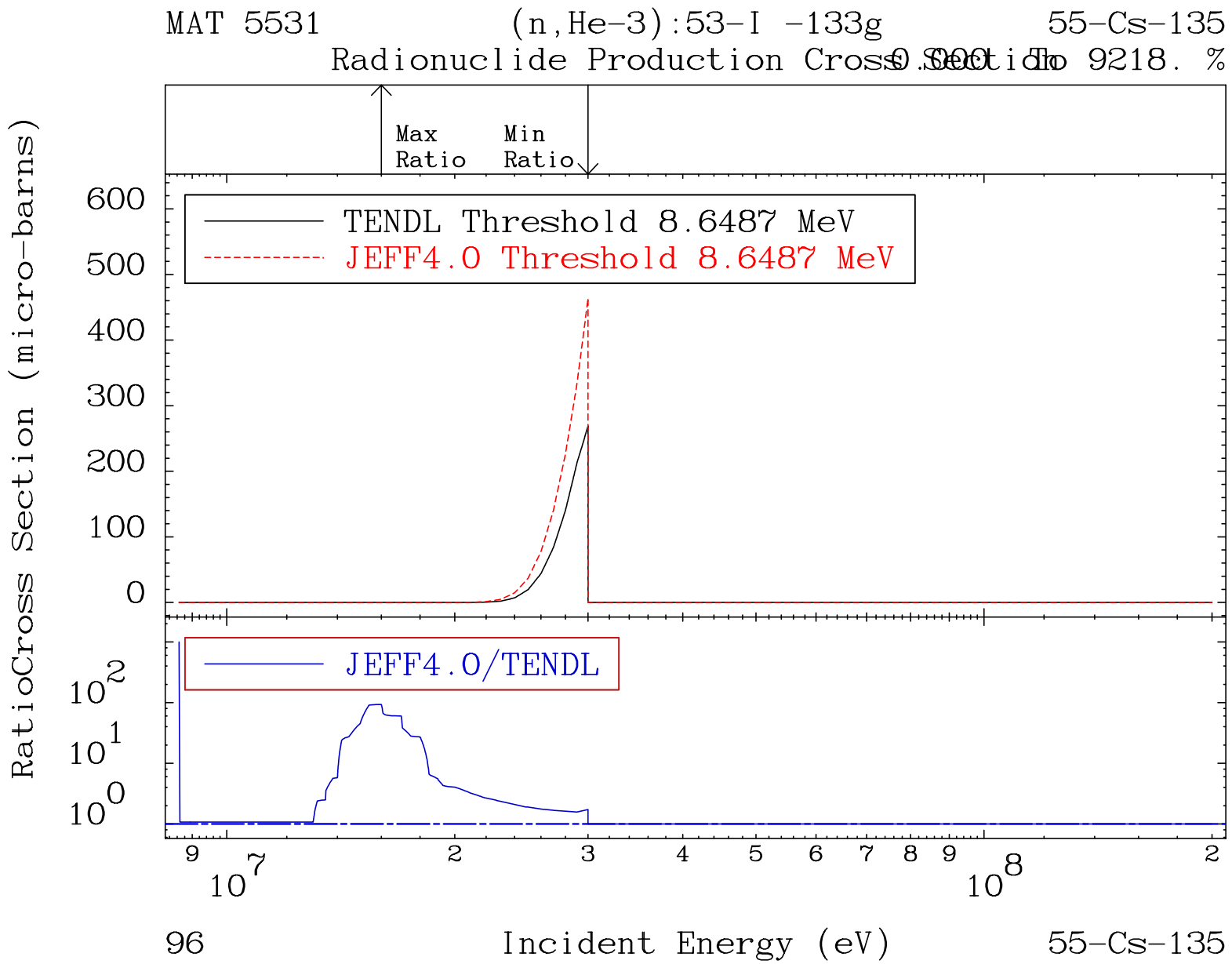

MAT 5531
(n,p):54-Xe-135g
55-Cs-135
Radionuclide Production Cross Section To 29.83 %
Min Ratio
Max Ratio
TENDL Threshold 389.13 keV
JEFF4.0 Threshold 389.13 keV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
91
55-Cs-135

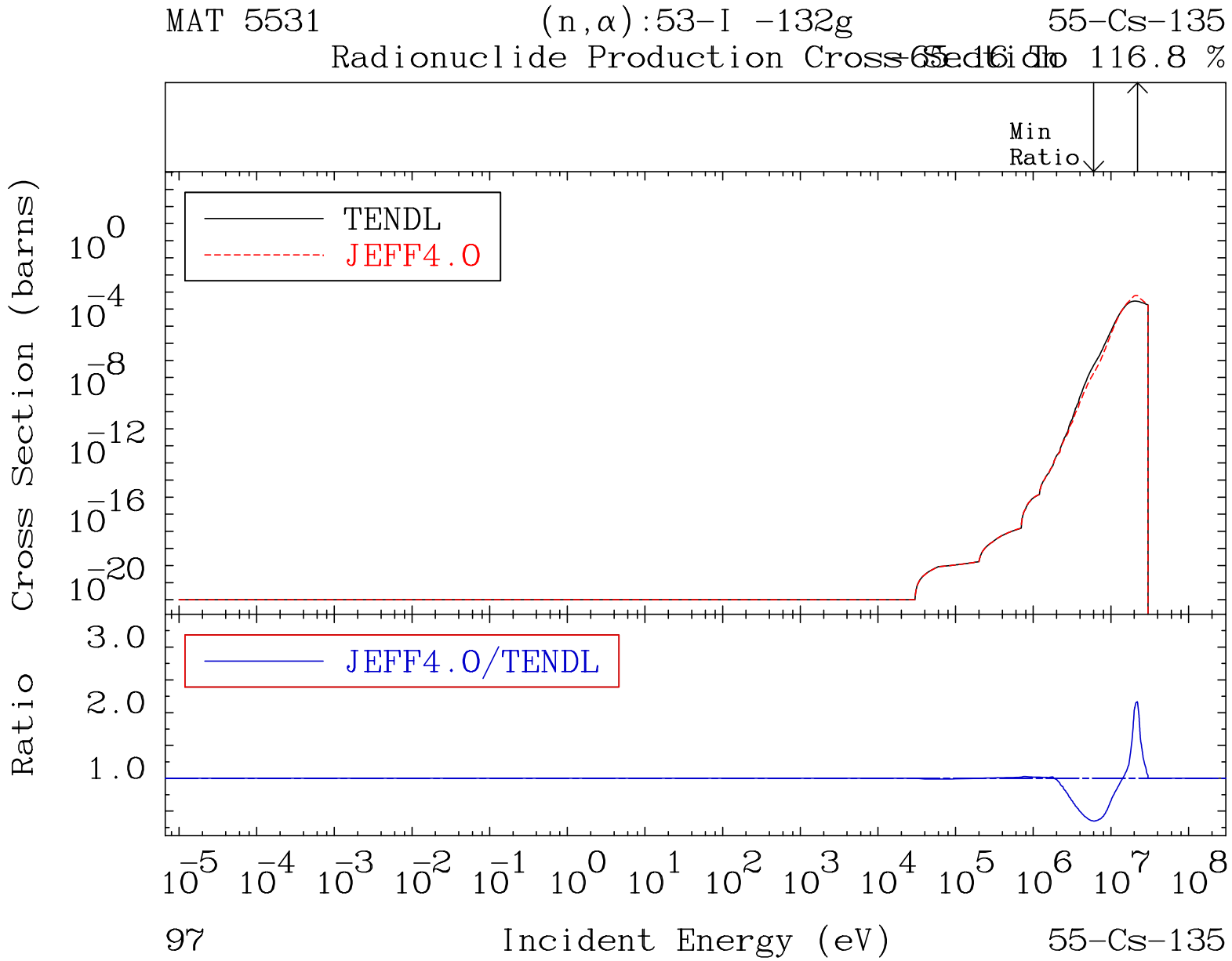

MAT 5531
(n,p):54-Xe-135m2
55-Cs-135
Radionuclide Production Cross Section To 1.577 %
Min Ratio
Max Ratio
TENDL Threshold 1.6000 MeV
JEFF4.0 Threshold 1.6000 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
1.2
0.8
0.4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
92
Incident Energy (eV)
55-Cs-135

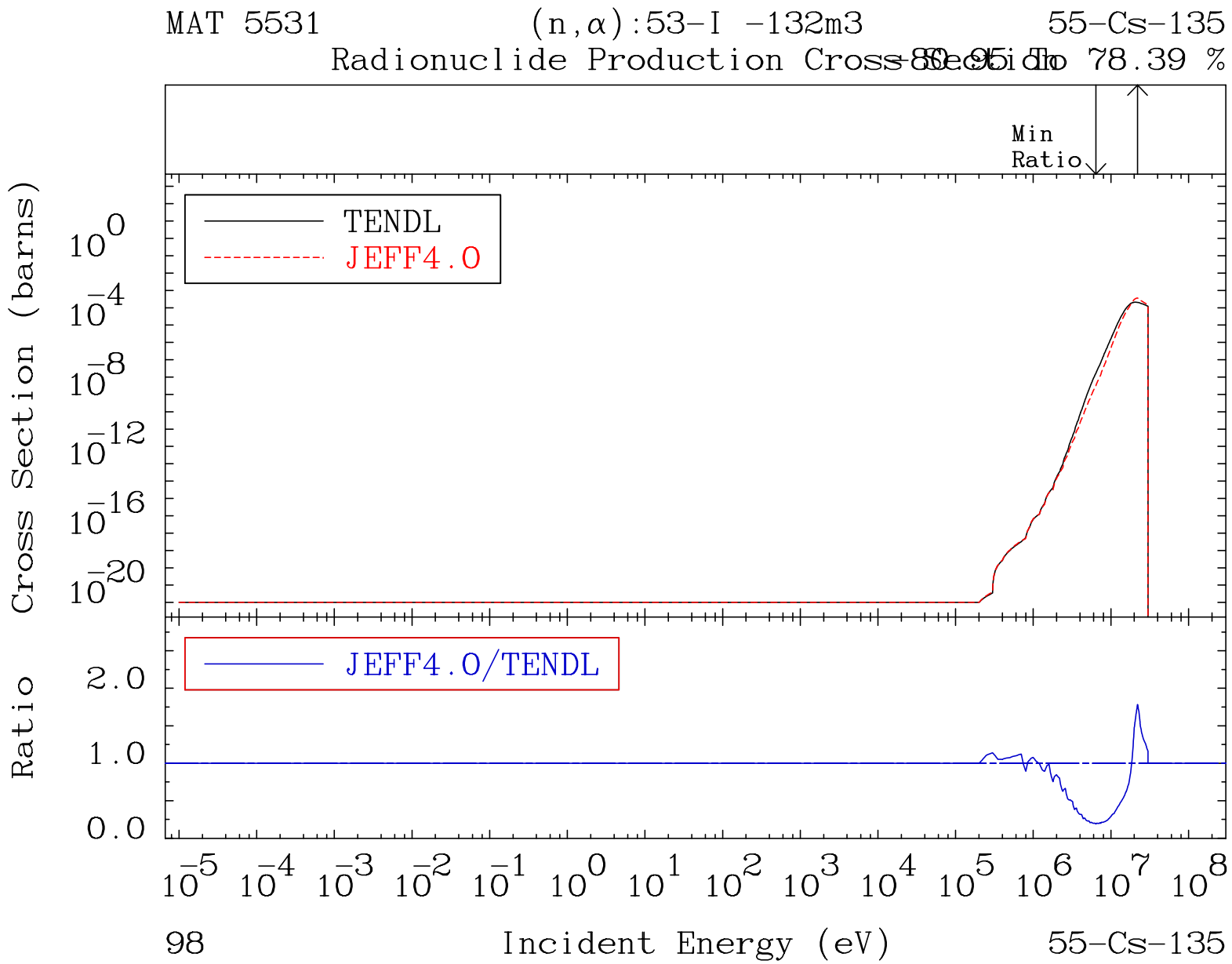

MAT 5531
(n,d):54-Xe-134g
55-Cs-135
Radionuclide Production Cross-Section To 55.01 %
Min Ratio
Max Ratio
TENDL Threshold 4.5543 MeV
JEFF4.0 Threshold 4.5543 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
1.8
1.2
0.6
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
93
Incident Energy (eV)
55-Cs-135

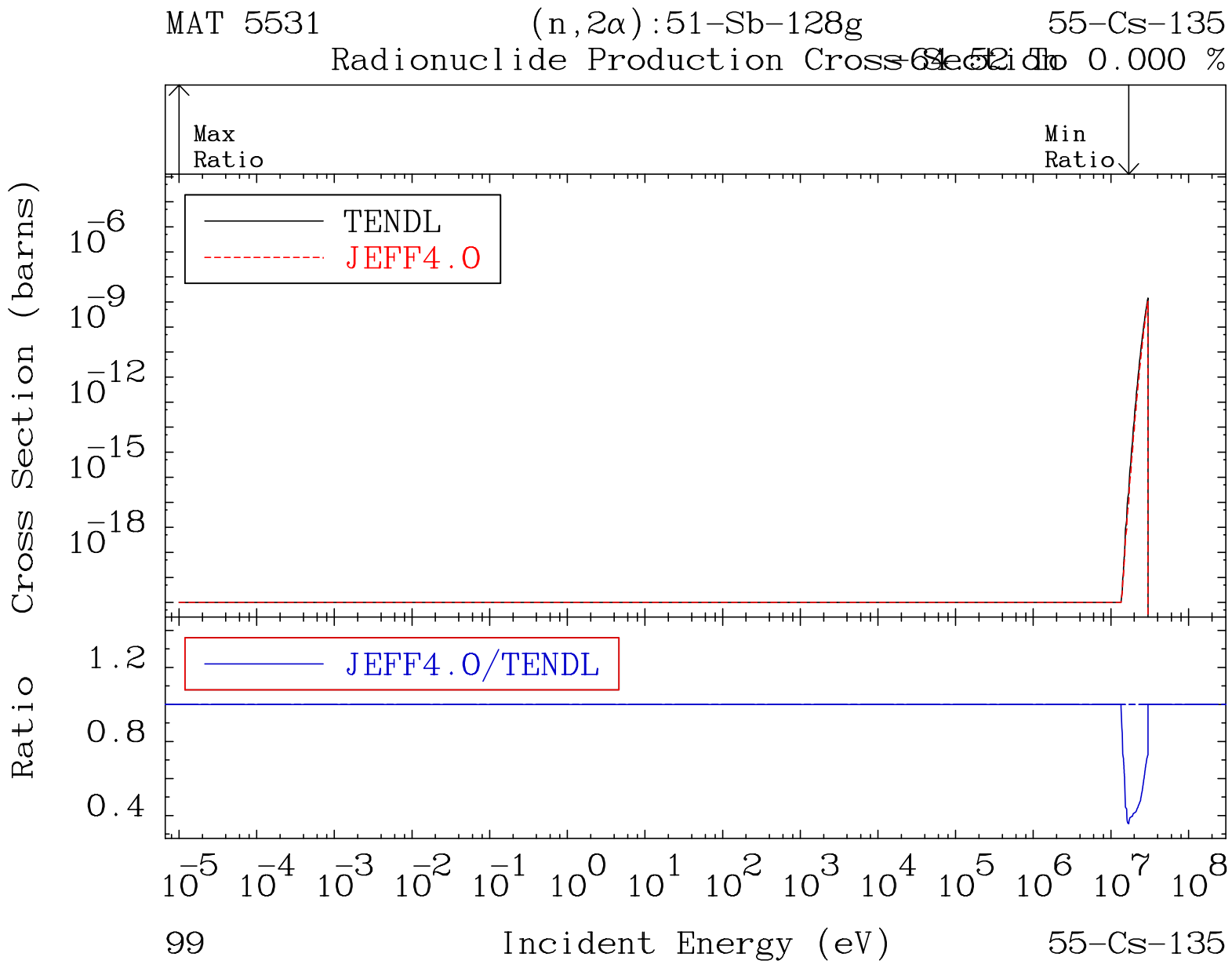

MAT 5531
(n,t):54-Xe-133g
55-Cs-135
Radionuclide Production Cross Section To 1500. %
Min Ratio
Max Ratio
TENDL Threshold 6.8678 MeV
JEFF4.0 Threshold 6.8678 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
10^1
10^0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
94
Incident Energy (eV)
55-Cs-135

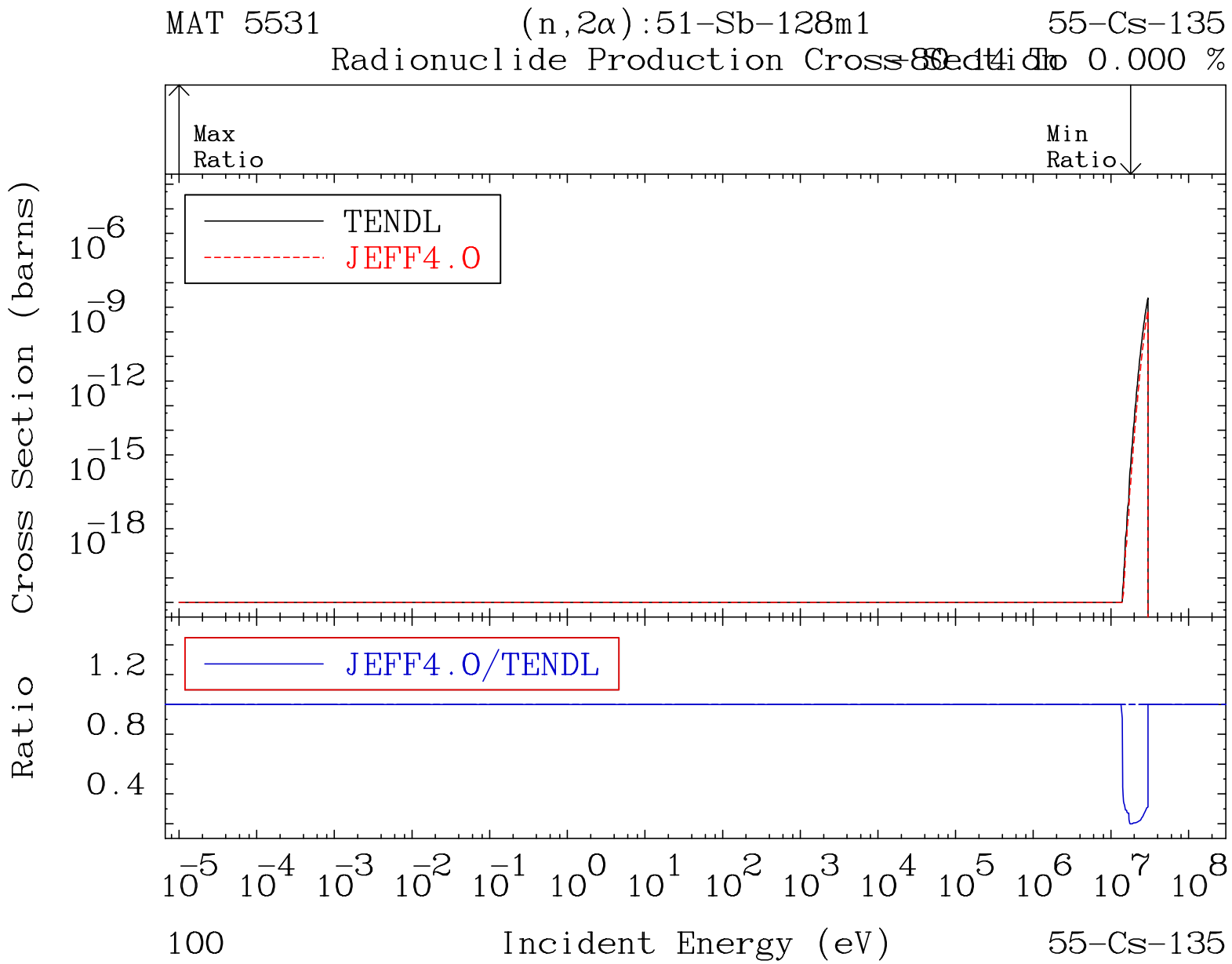

MAT 5531
(n,t):54-Xe-133m1
55-Cs-135
Radionuclide Production Cross Section To 1560. %
Min Ratio
Max Ratio
TENDL Threshold 8.5000 MeV
JEFF4.0 Threshold 8.5000 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
95
55-Cs-135

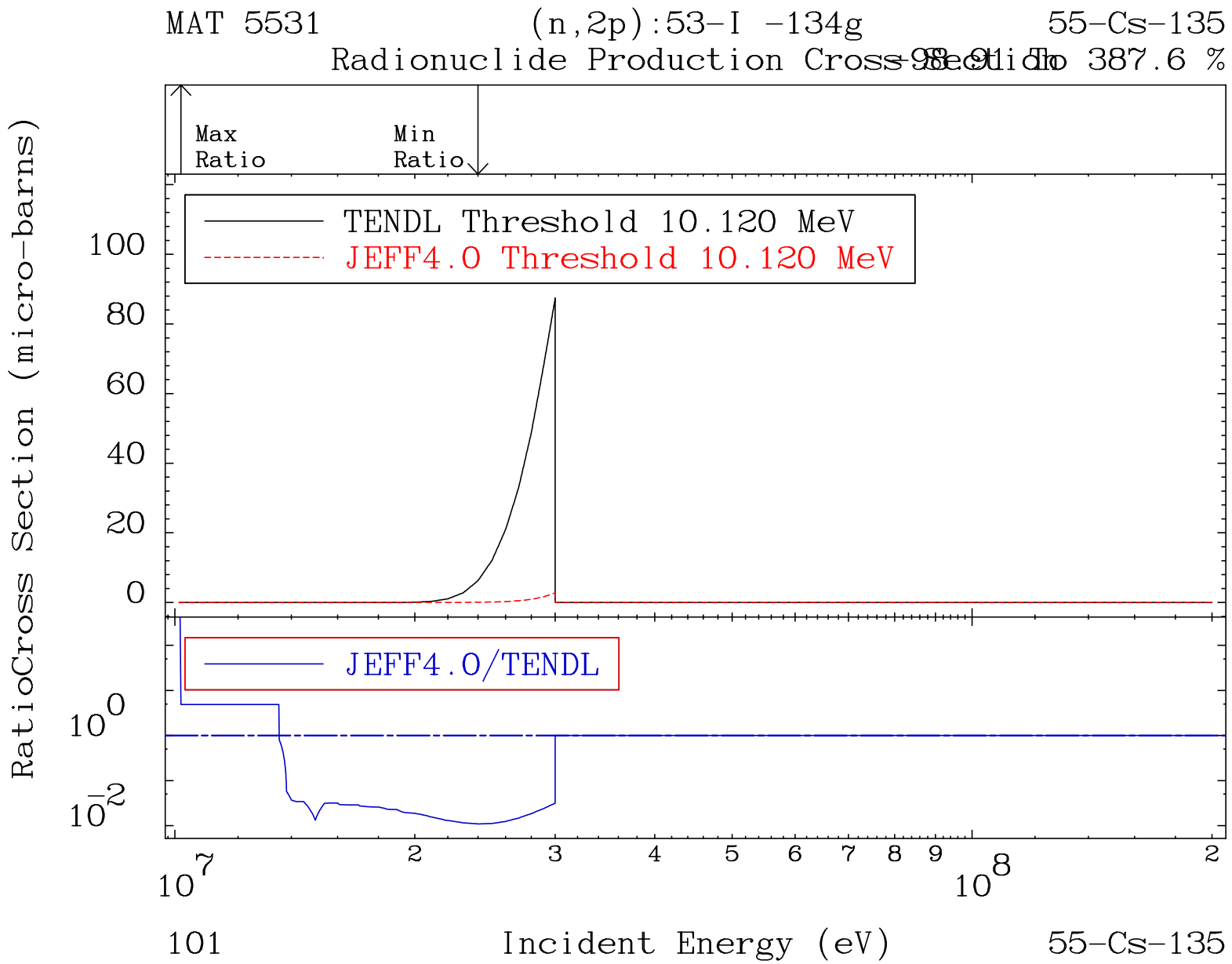

MAT 5531
(n,He-3):53-I -133g
55-Cs-135
Radionuclide Production Cross Section
0.000 To 9218. %
Max Ratio
Min Ratio
TENDL Threshold 8.6487 MeV
JEFF4.0 Threshold 8.6487 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
600
500
400
300
200
100
0
10^2
10^1
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
96
Incident Energy (eV)
55-Cs-135

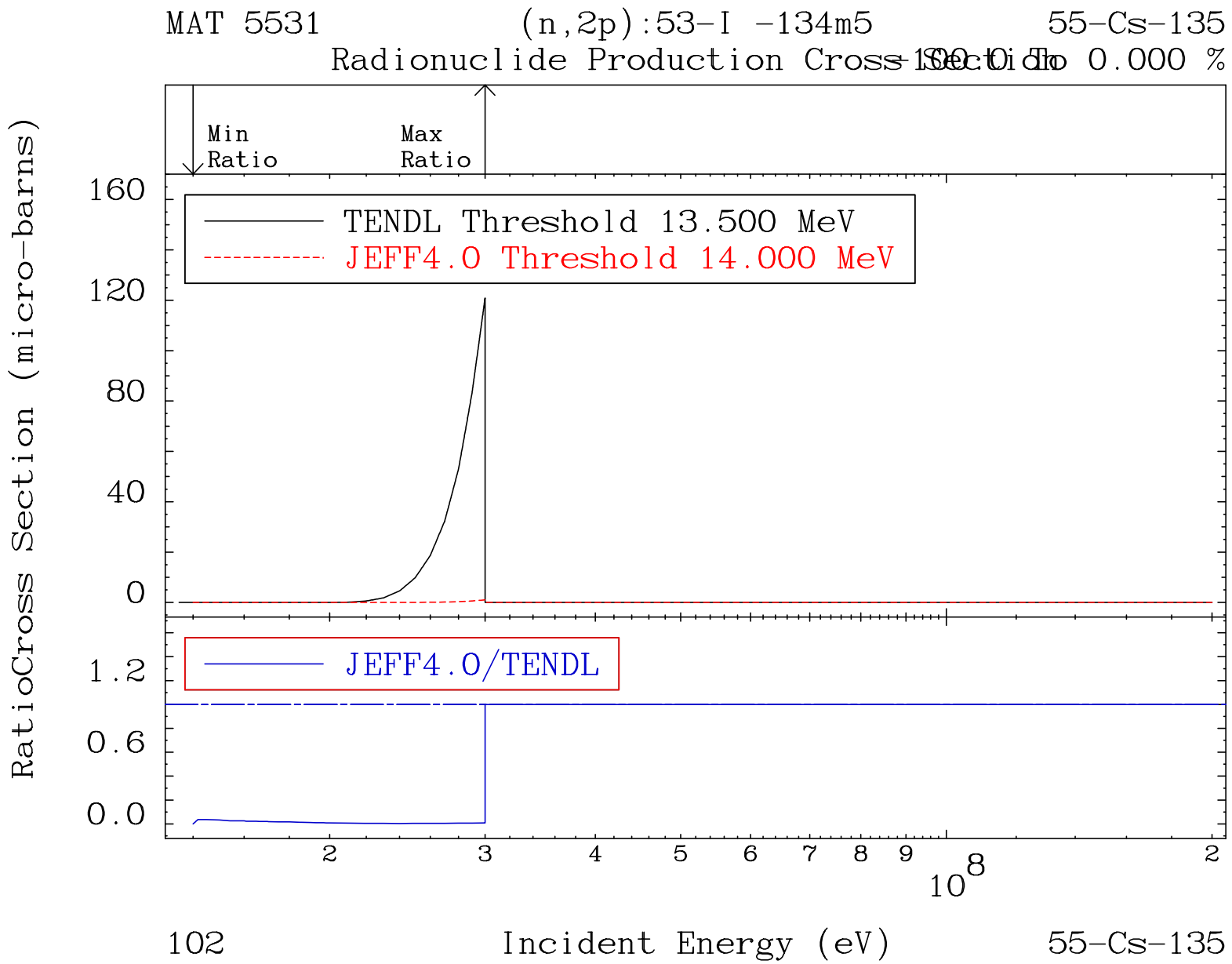

MAT 5531
(n,α):53-I -132g
55-Cs-135
Radionuclide Production Cross-Section
65.16 To 116.8 %
Min
Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
97
55-Cs-135

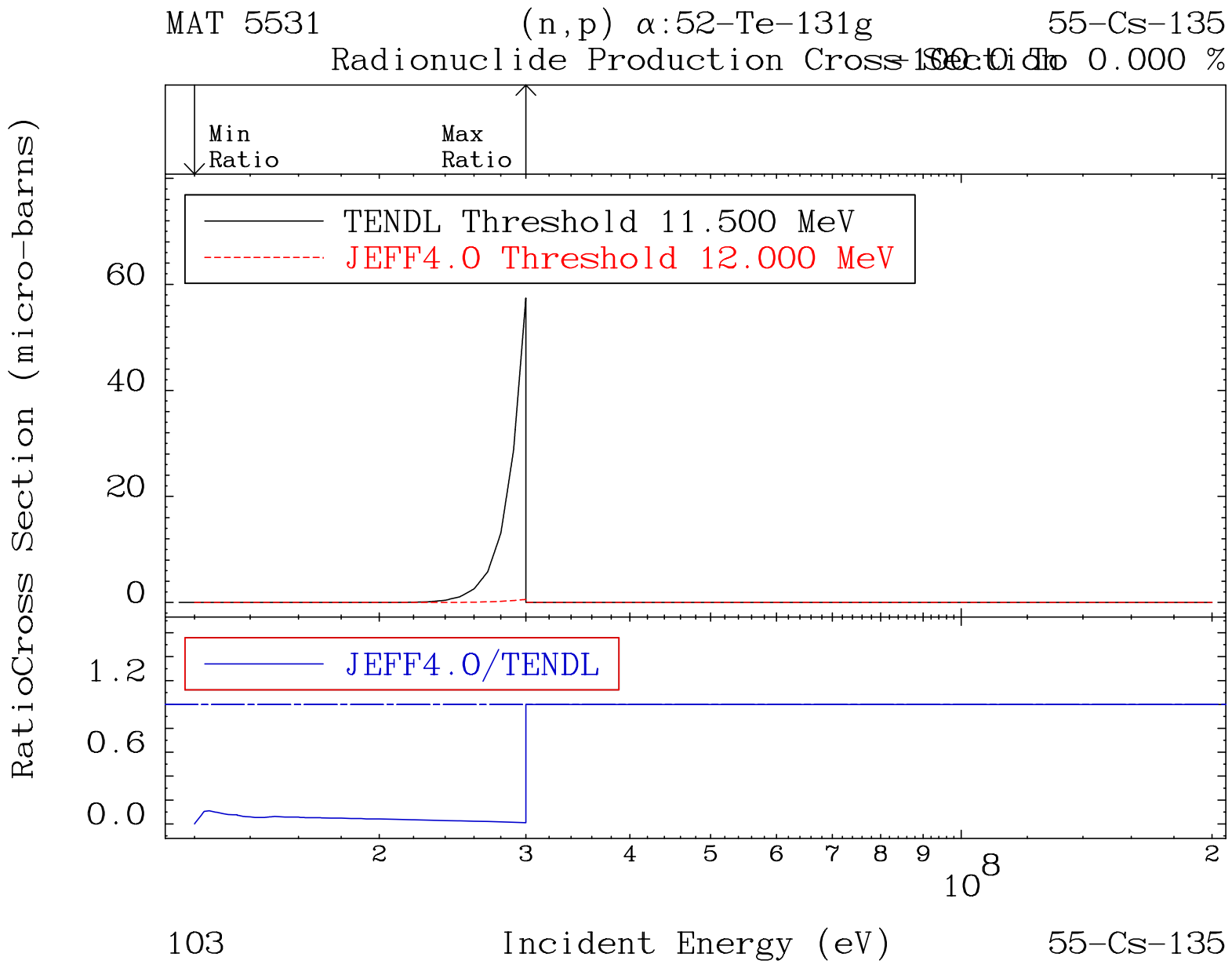

MAT 5531
(n,α):53-I -132m3
55-Cs-135
Radionuclide Production Cross Section
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
98
55-Cs-135

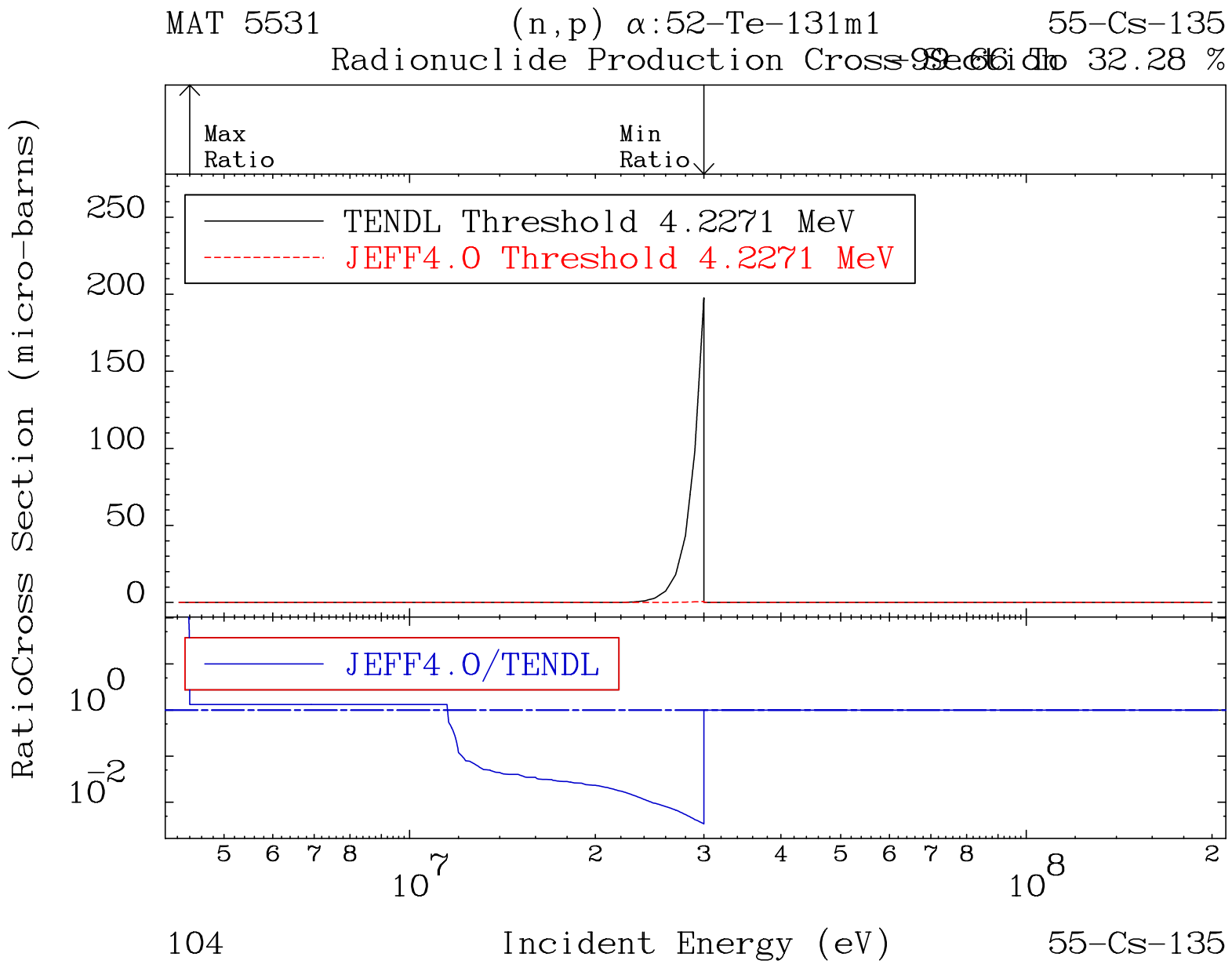

MAT 5531
(n,2α):51-Sb-128g
55-Cs-135
Radionuclide Production Cross Section To 0.000 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
99
55-Cs-135

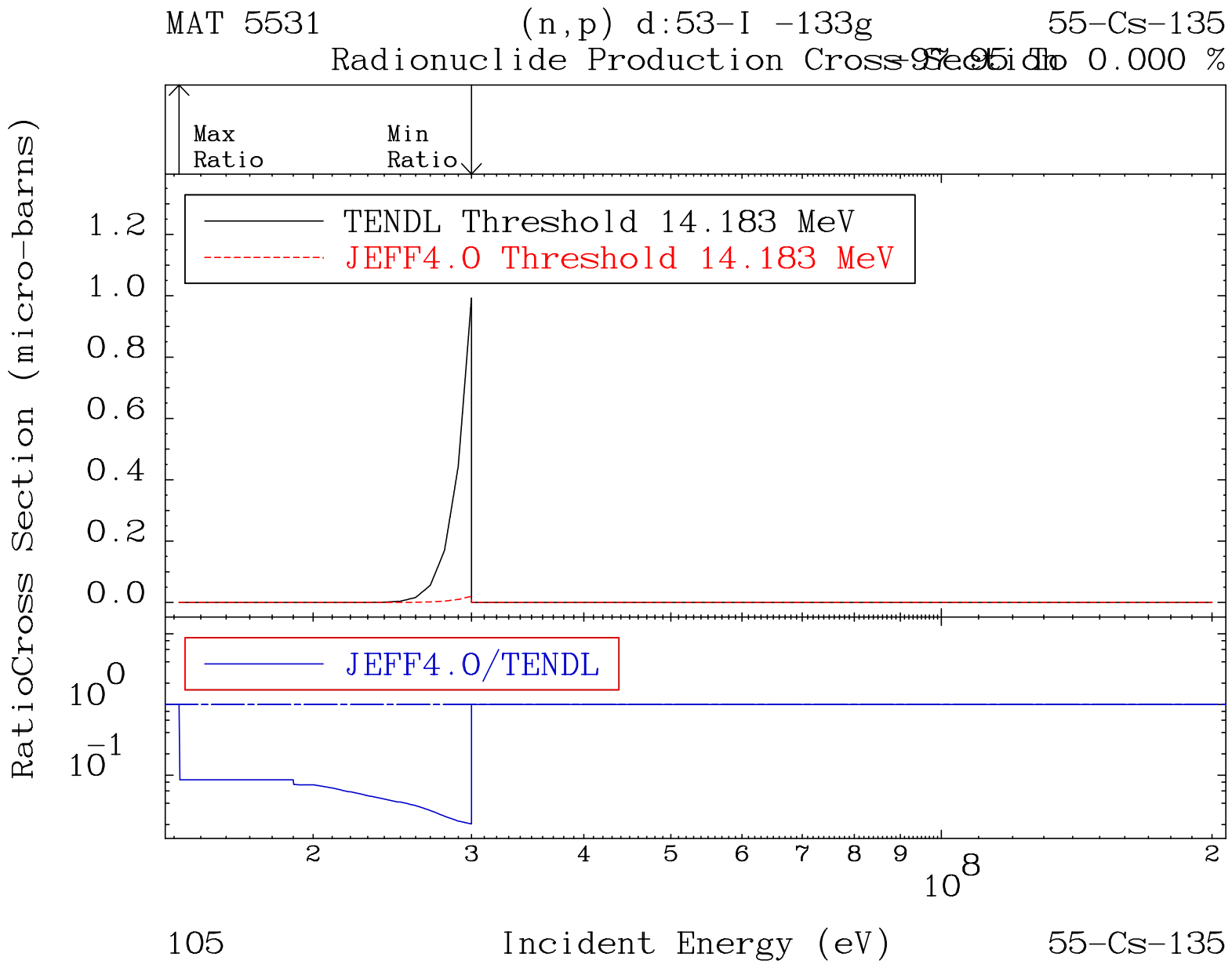

MAT 5531
(n,2α):51-Sb-128m1
55-Cs-135
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55-Cs-135

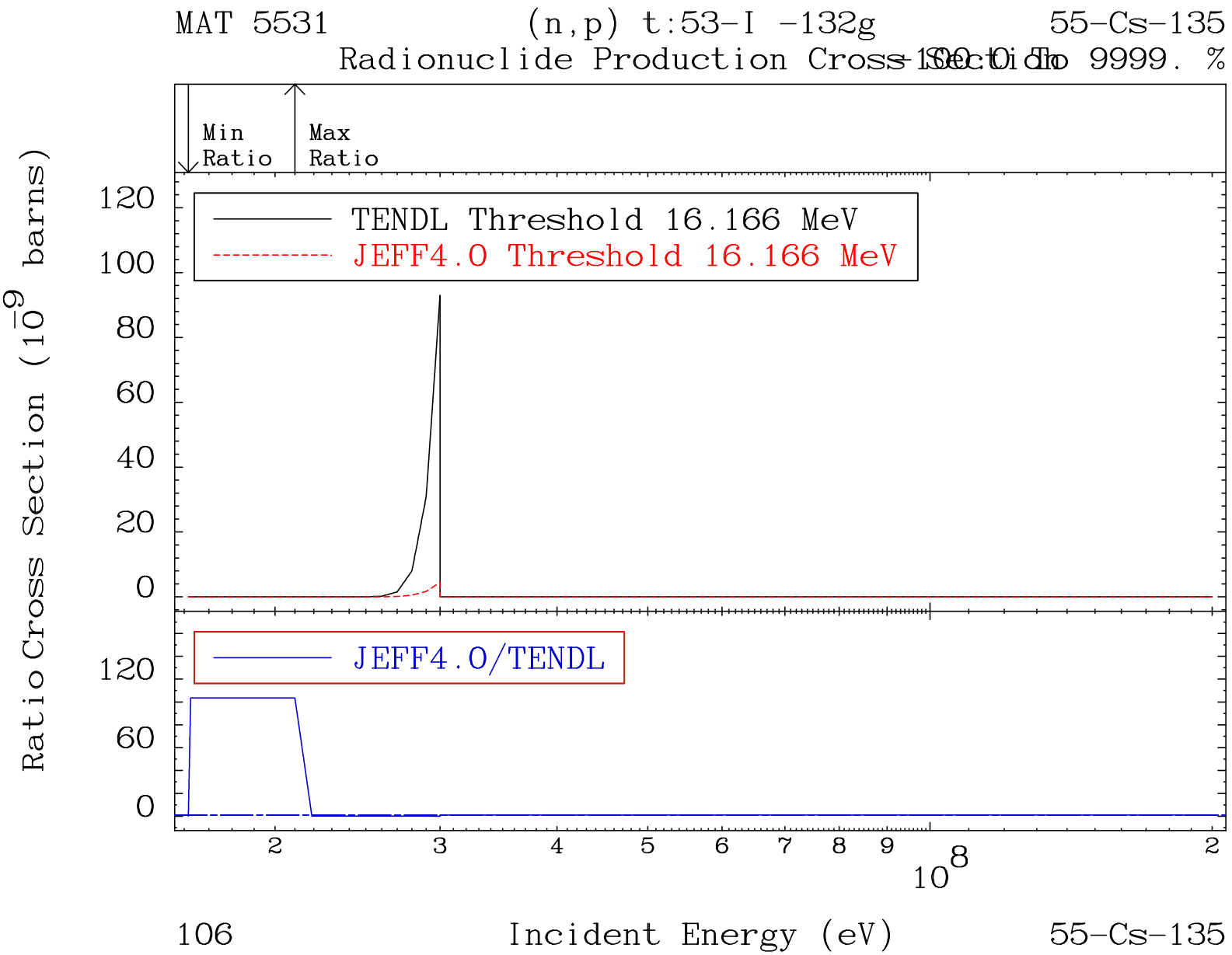

MAT 5531
(n,2p):53-I -134g
55-Cs-135
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 10.120 MeV
JEFF4.0 Threshold 10.120 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
101
55-Cs-135

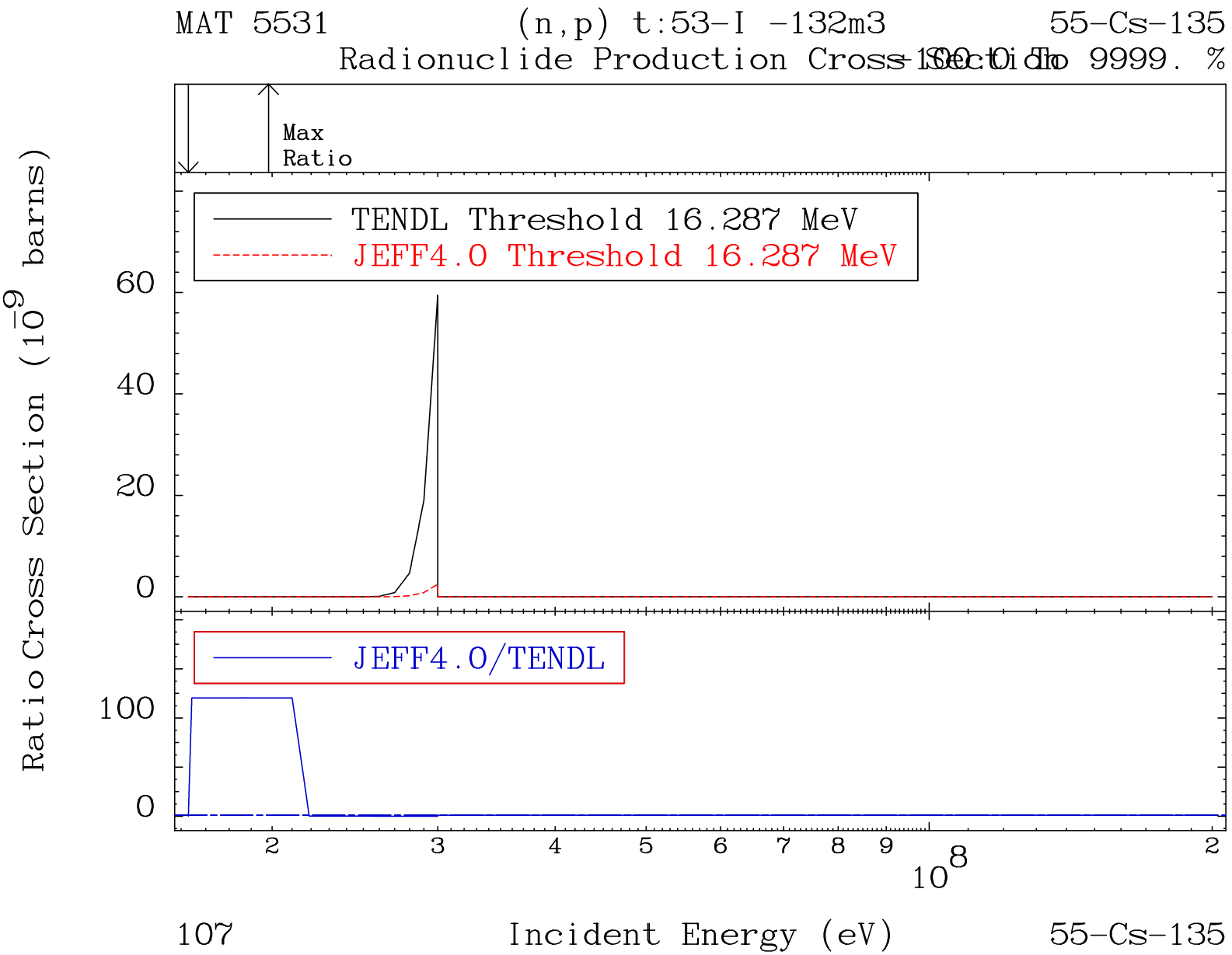

MAT 5531
(n,2p):53-I -134m5
55-Cs-135
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 13.500 MeV
JEFF4.0 Threshold 14.000 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
160
120
80
40
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
102
Incident Energy (eV)
55-Cs-135


MAT 5531
(n,p) α:52-Te-131g
55-Cs-135
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 11.500 MeV
JEFF4.0 Threshold 12.000 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
60
40
20
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
2
10^8
103
Incident Energy (eV)
55-Cs-135


MAT 5531
(n,p) α:52-Te-131m1
55-Cs-135
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 4.2271 MeV
JEFF4.0 Threshold 4.2271 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
104
55-Cs-135


MAT 5531
(n,p) d:53-I -133g
55-Cs-135
Radionuclide Production Cross Section
95% Tol 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 14.183 MeV
JEFF4.0 Threshold 14.183 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
10^0
10^-1
2
3
4
5
6
7
8
9
10^8
2
105
Incident Energy (eV)
55-Cs-135


MAT 5531
(n,p) t:53-I -132g
55-Cs-135
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 16.166 MeV
JEFF4.0 Threshold 16.166 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^{-9} barns)
120
100
80
60
40
20
0
120
60
0
2
3
4
5
6
7
8
9
10^8
2
106
Incident Energy (eV)
55-Cs-135


MAT 5531
(n,p) t:53-I -132m3
55-Cs-135
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 16.287 MeV
JEFF4.0 Threshold 16.287 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^{-9} barns)
60
40
20
0
100
0
2
3
4
5
6
7
8
9
10^8
2
107
Incident Energy (eV)
55-Cs-135