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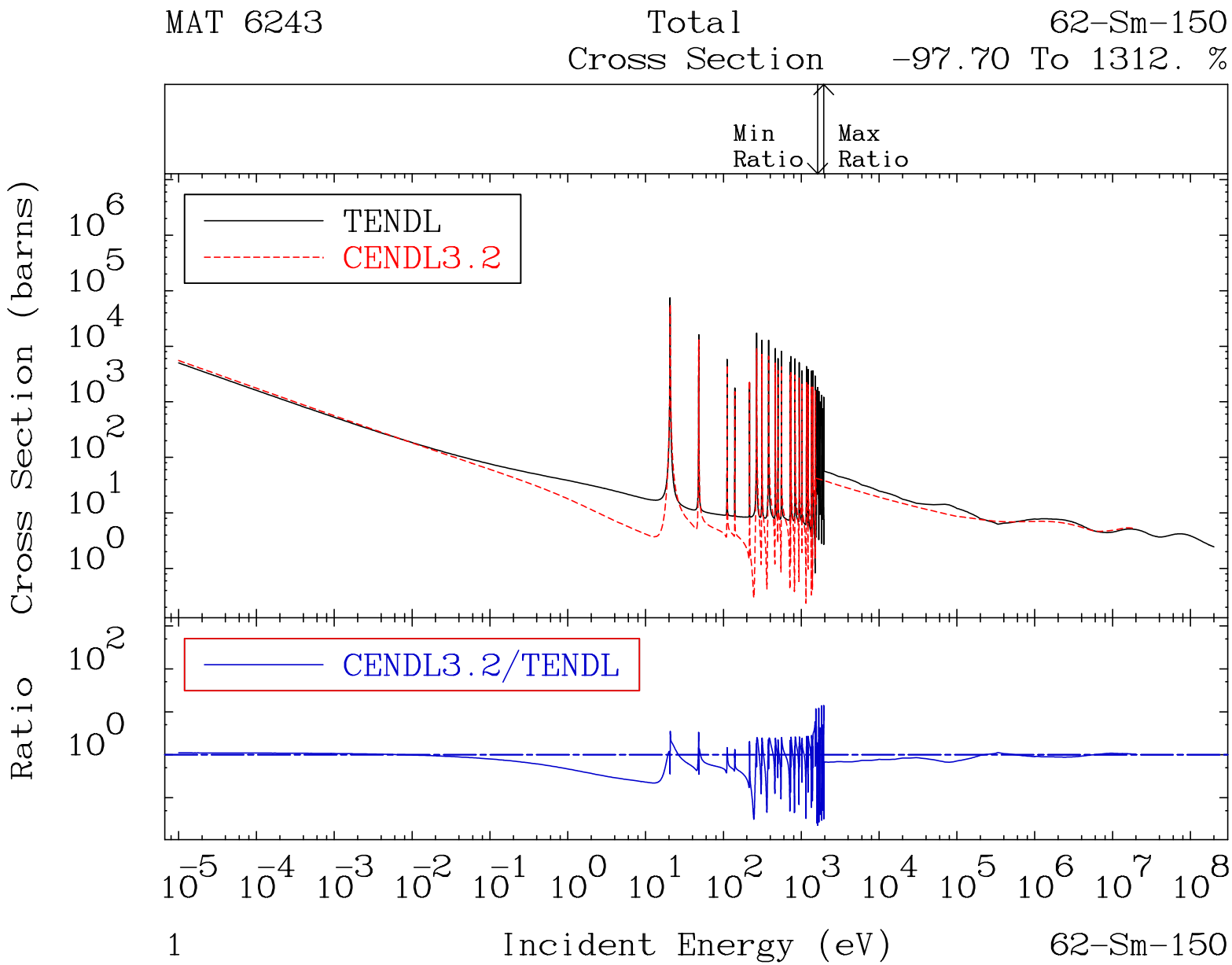
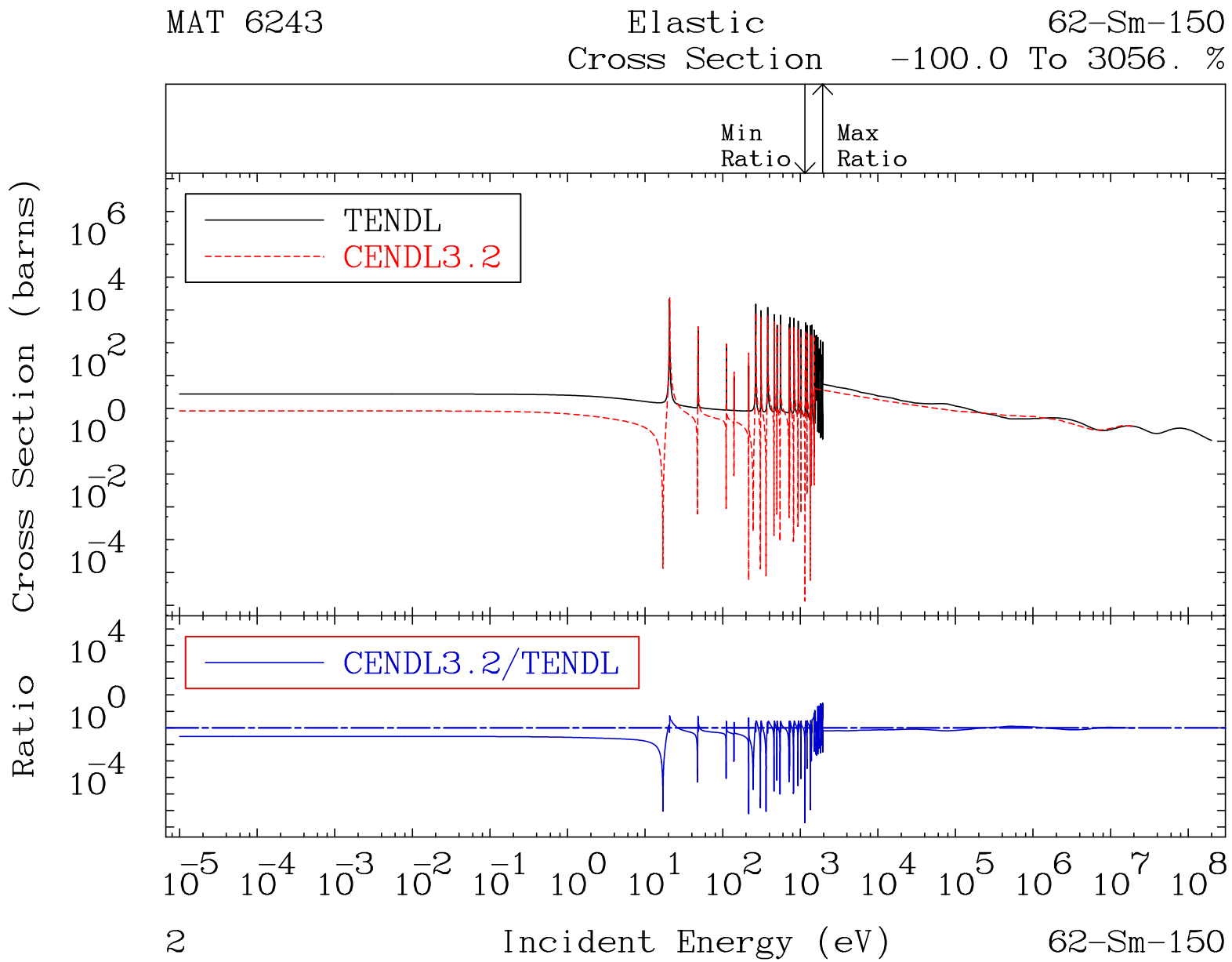
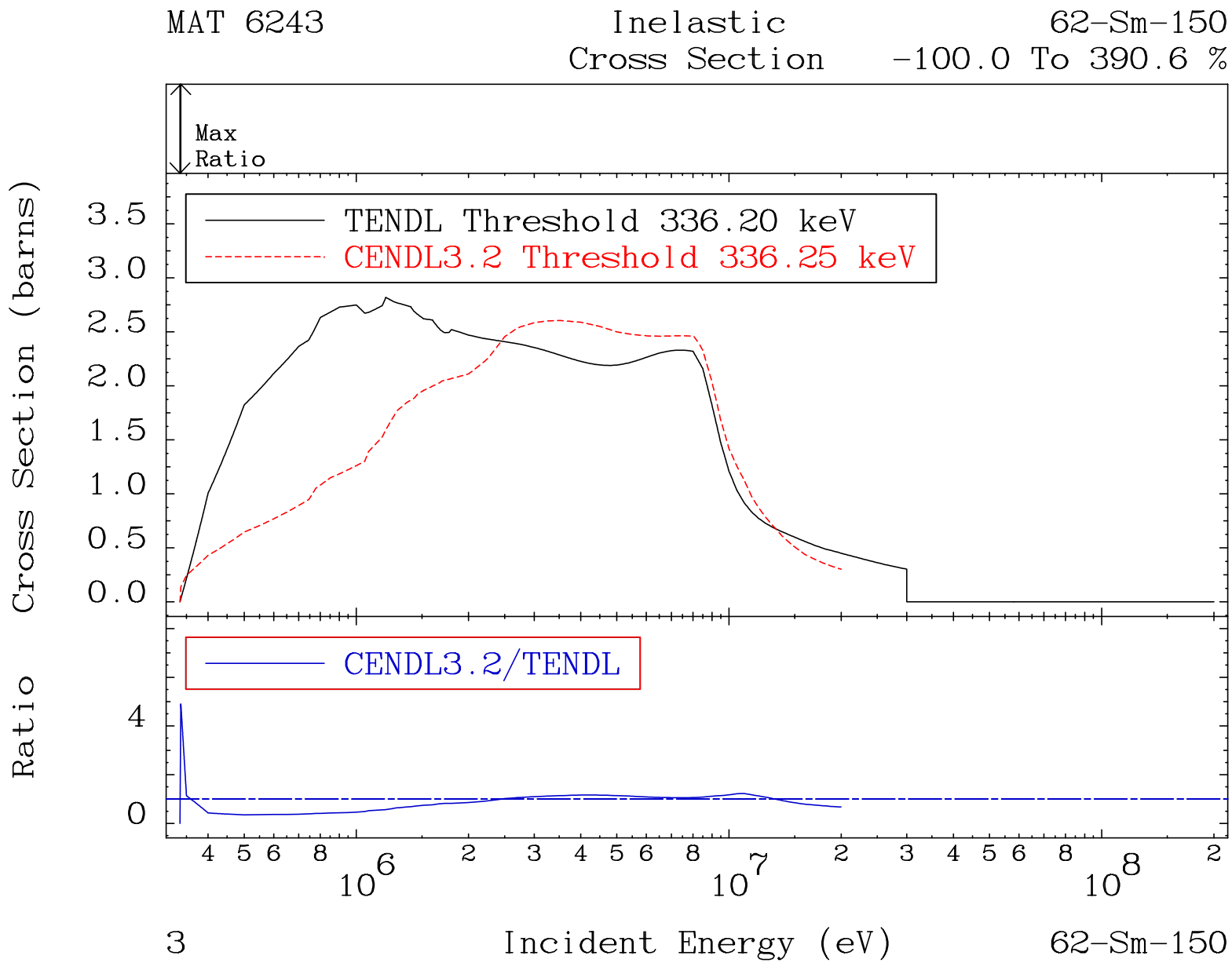
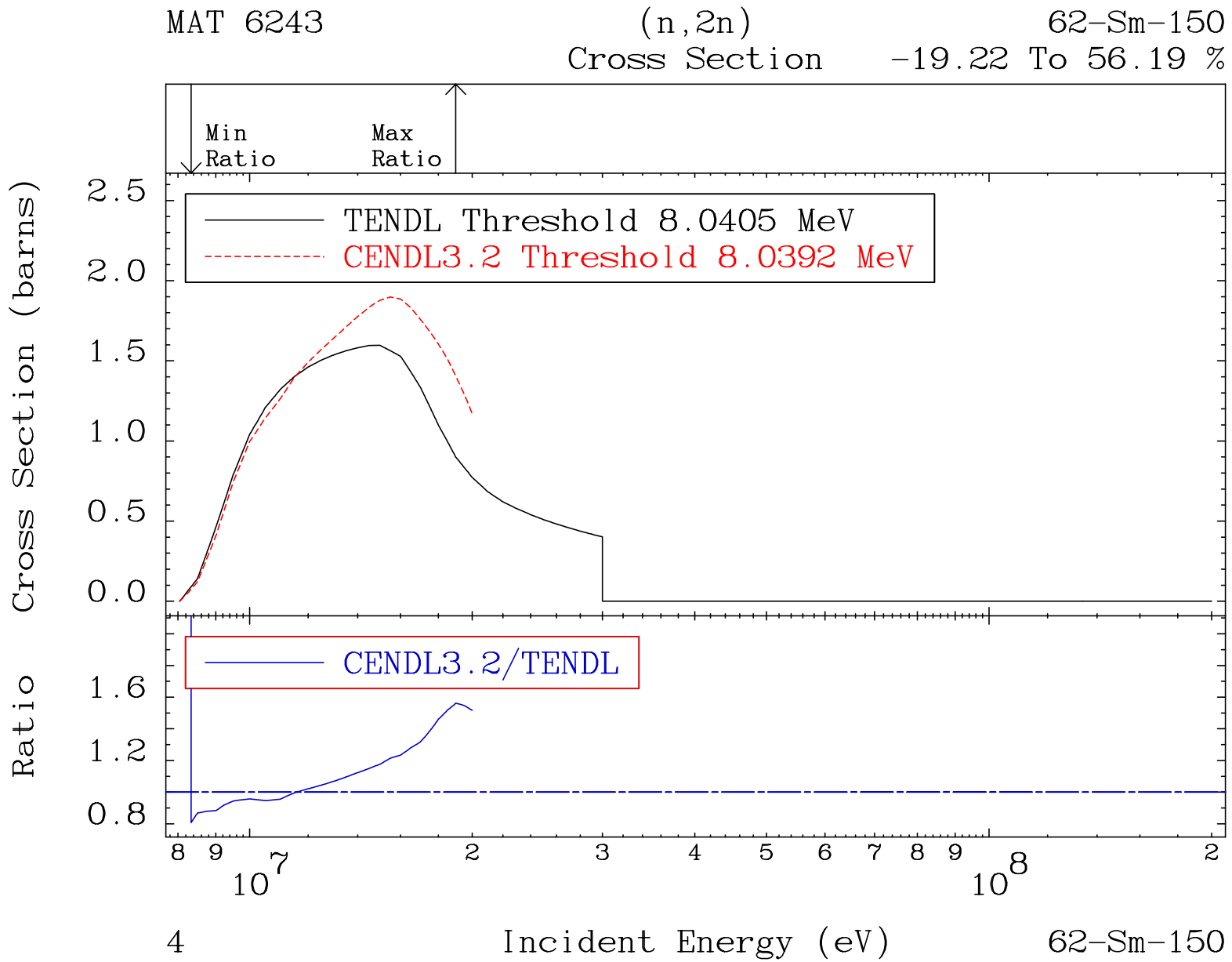
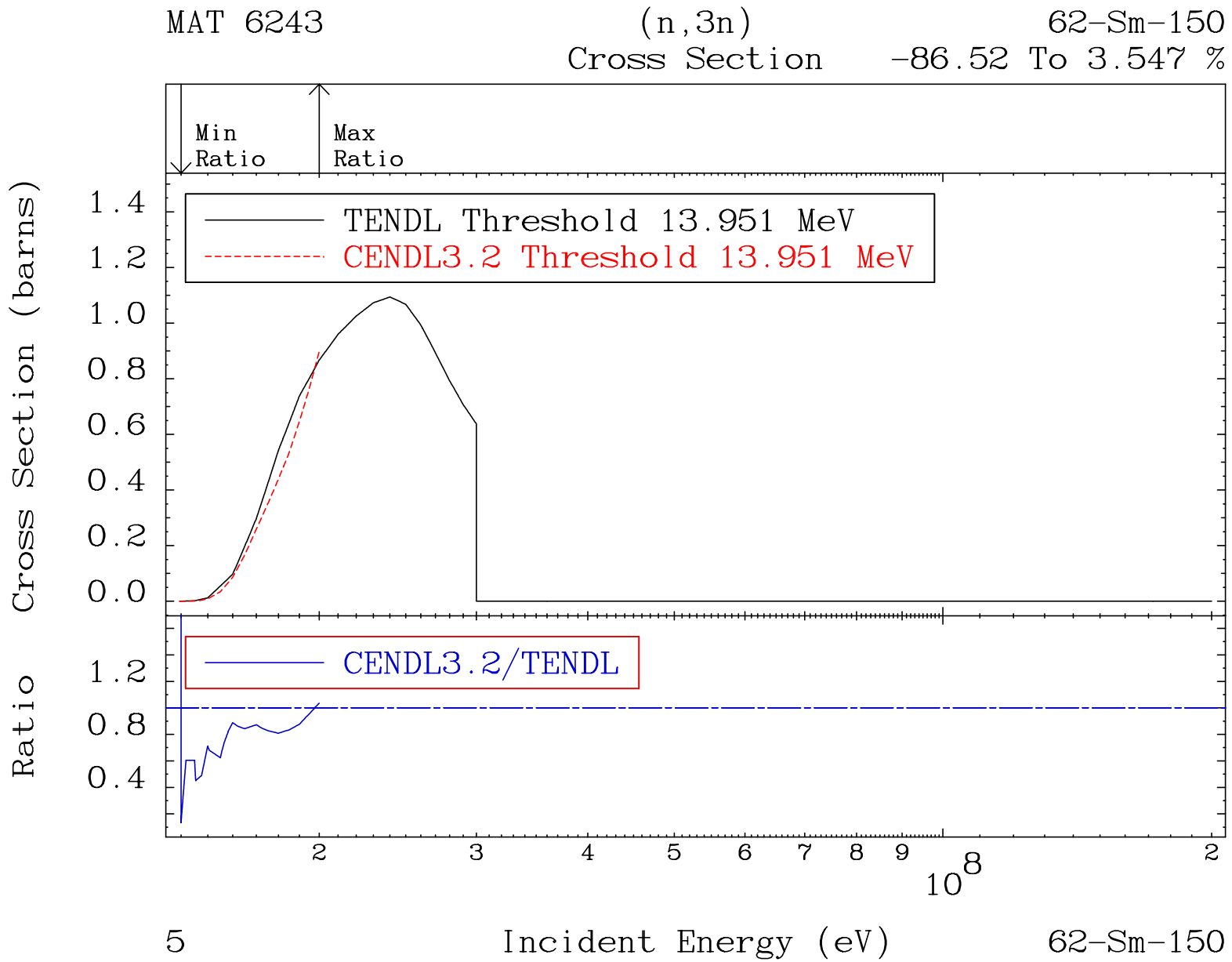
Press Mouse Button to Start

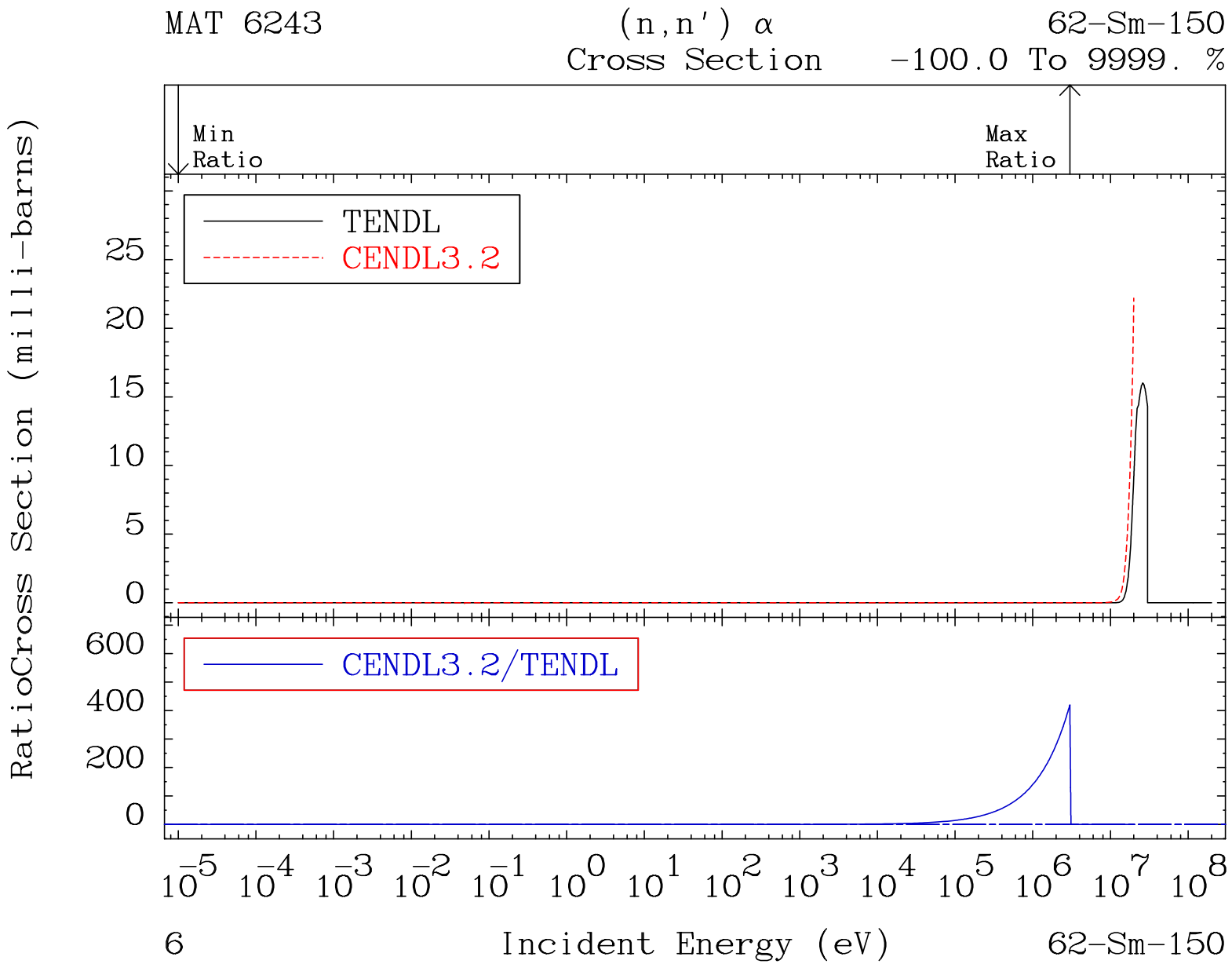

MAT 6243
Total
Cross Section
62-Sm-150
-97.70 To 1312. %
Min
Ratio
Max
Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
62-Sm-150

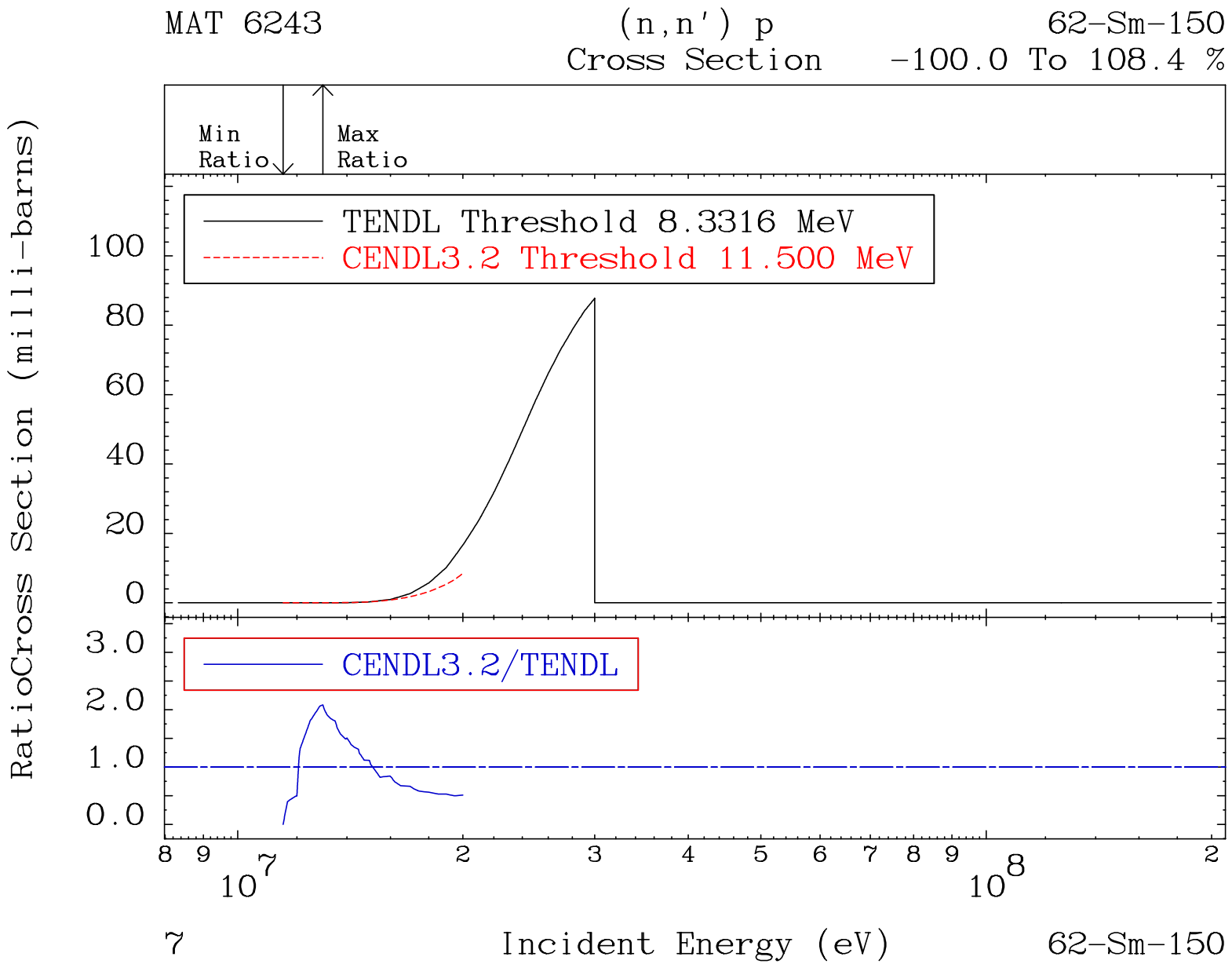

MAT 6243
Elastic
Cross Section
62-Sm-150
-100.0 To 3056. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62-Sm-150
2

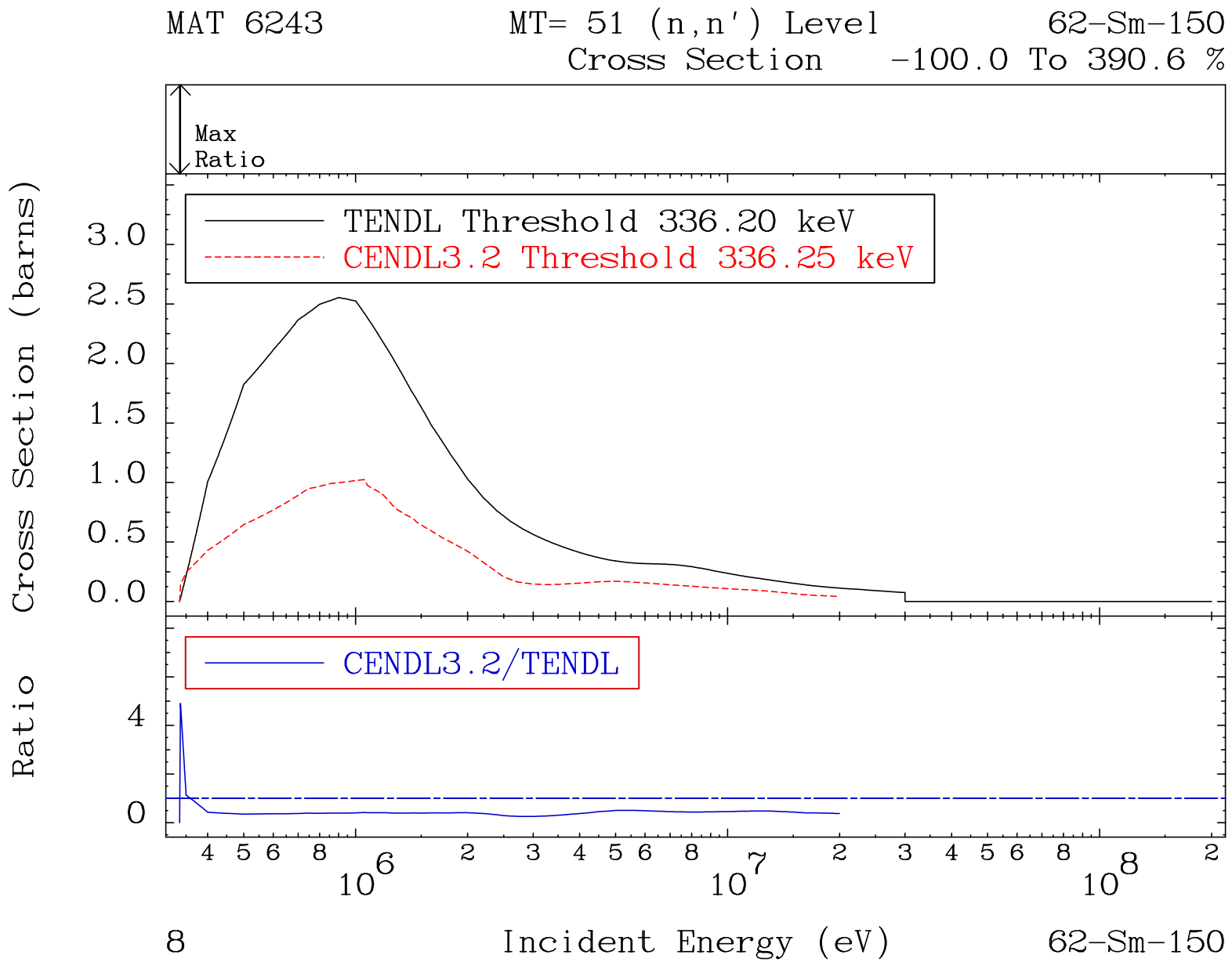

MAT 6243
Inelastic
Cross Section
62-Sm-150
-100.0 To 390.6 %
Max
Ratio
TENDL Threshold 336.20 keV
CENDL3.2 Threshold 336.25 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
CENDL3.2/TENDL
Ratio
4
0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
62-Sm-150

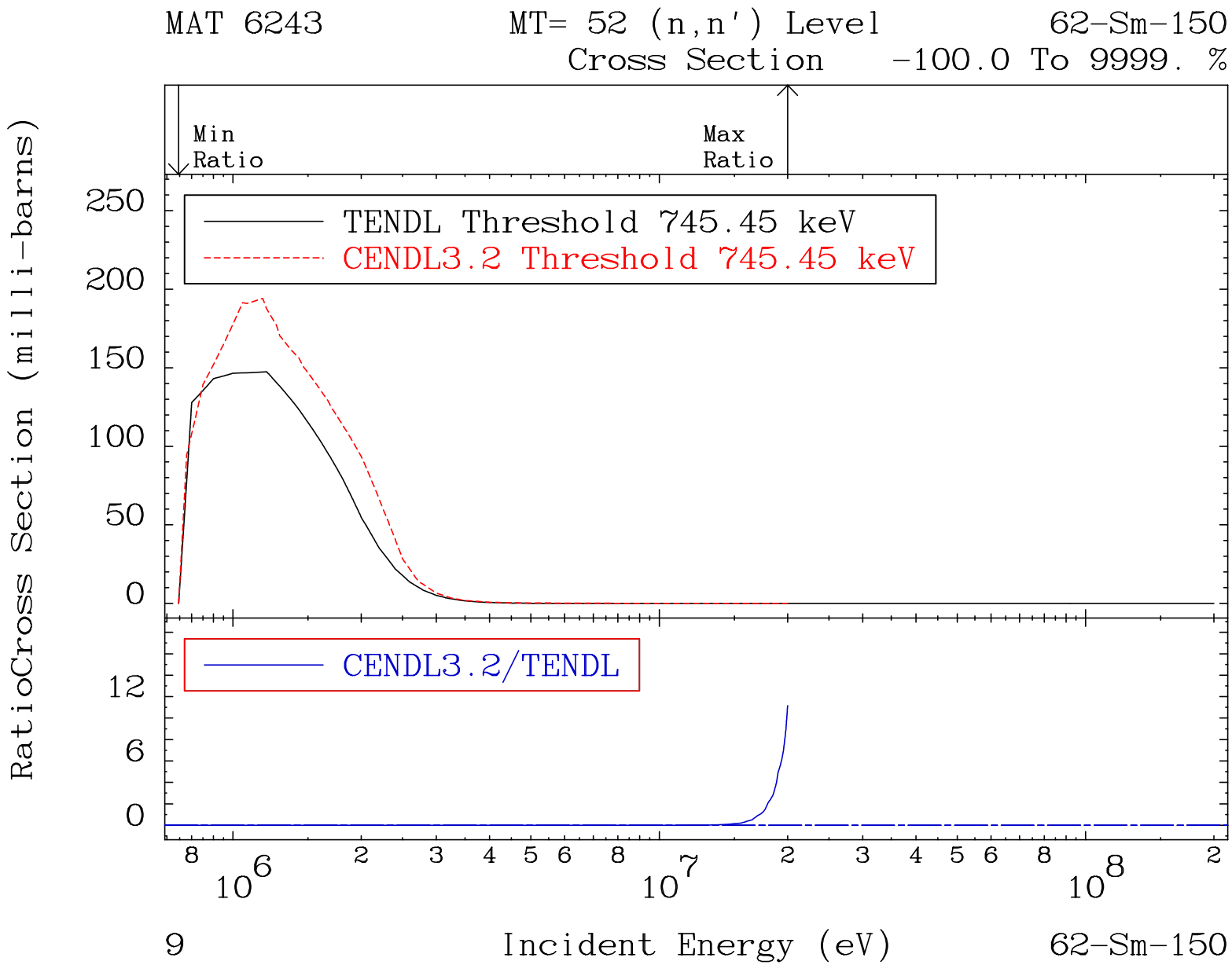

MAT 6243
(n,2n)
Cross Section
62-Sm-150
-19.22 To 56.19 %
Min Ratio
Max Ratio
TENDL Threshold 8.0405 MeV
CENDL3.2 Threshold 8.0392 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
4
62-Sm-150

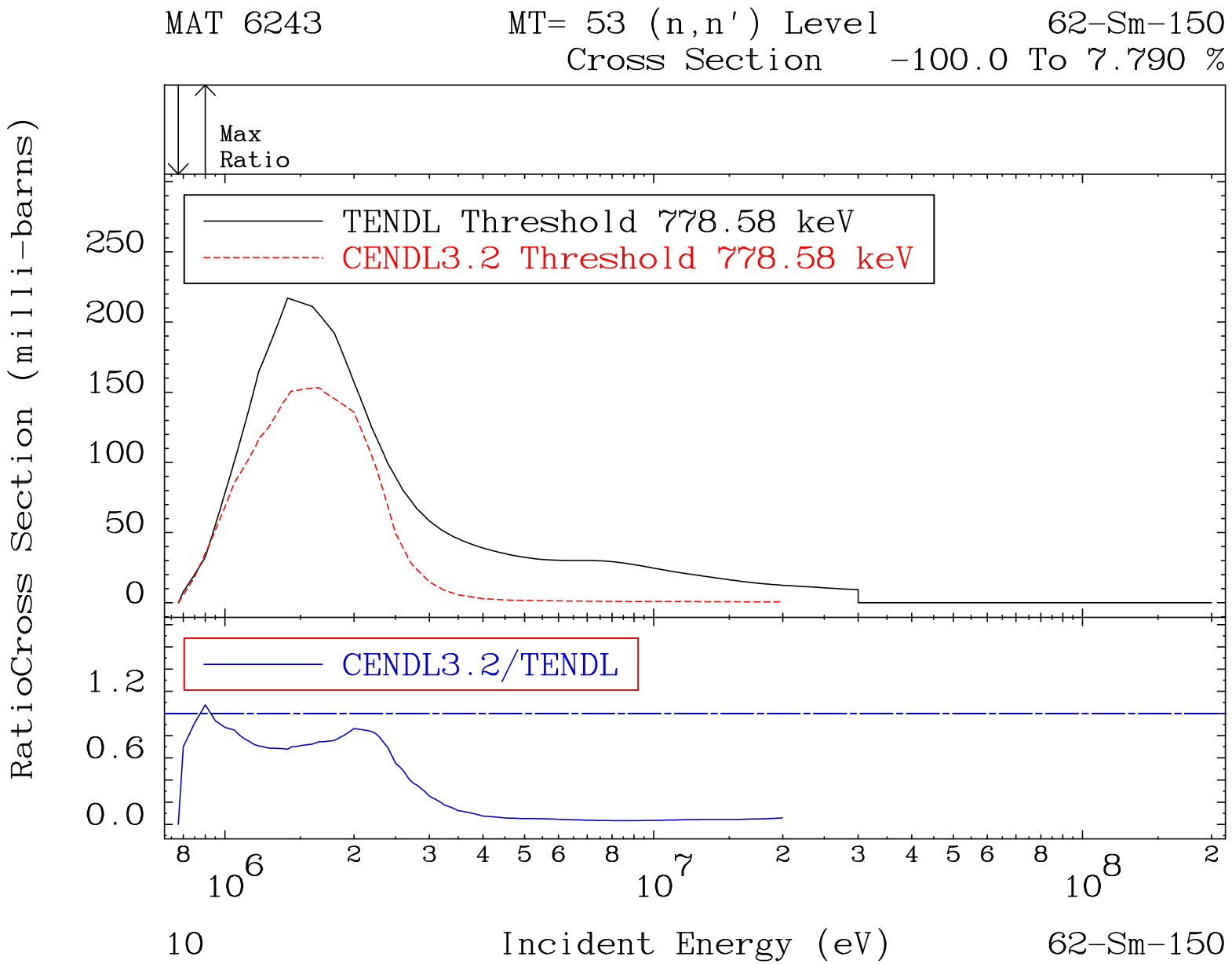

MAT 6243
(n,3n)
Cross Section
62-Sm-150
-86.52 To 3.547 %
Min Ratio
Max Ratio
TENDL Threshold 13.951 MeV
CENDL3.2 Threshold 13.951 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
62-Sm-150

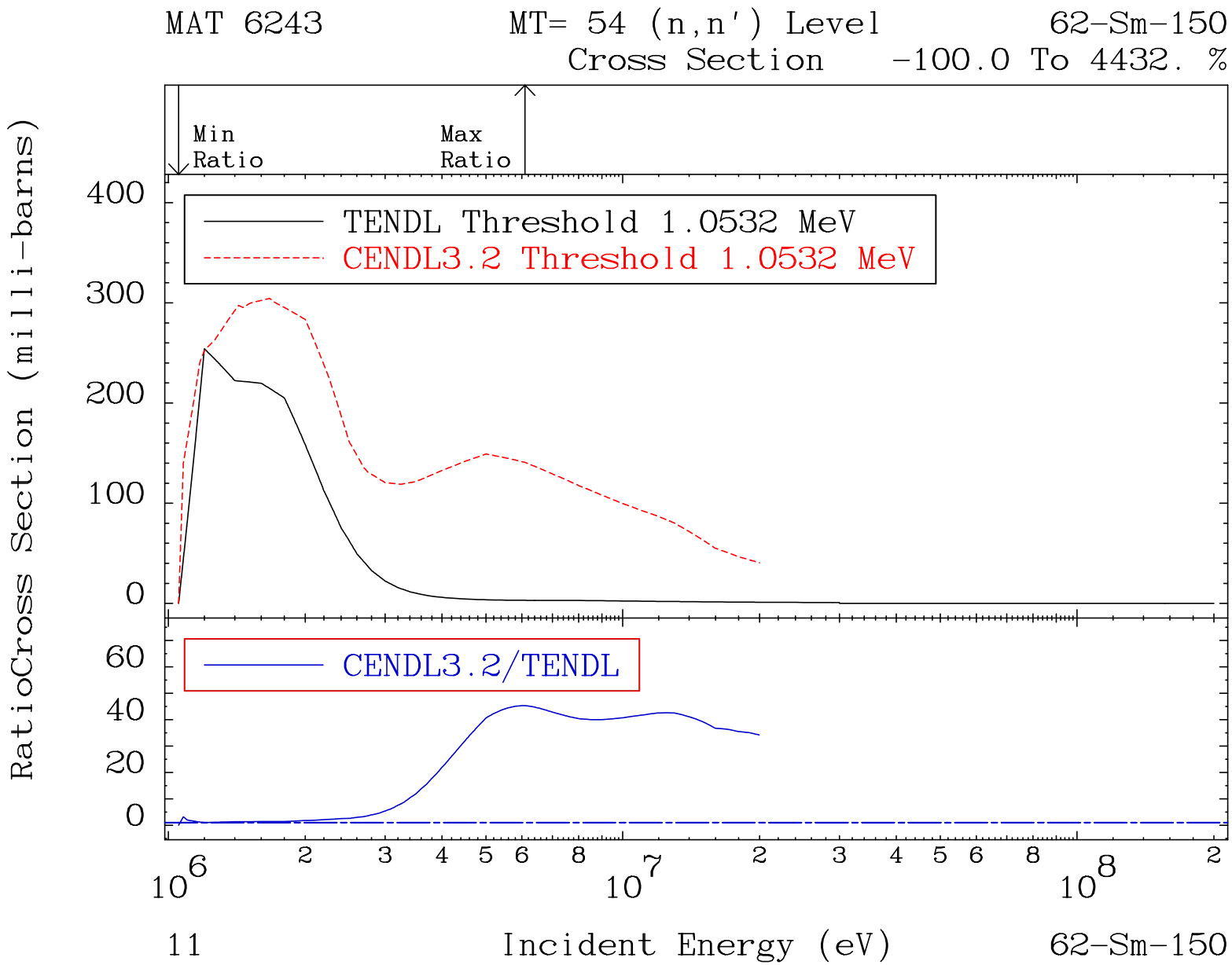

MAT 6243
(n,n') α
Cross Section
62-Sm-150
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
600
400
200
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
Incident Energy (eV)
6
62-Sm-150

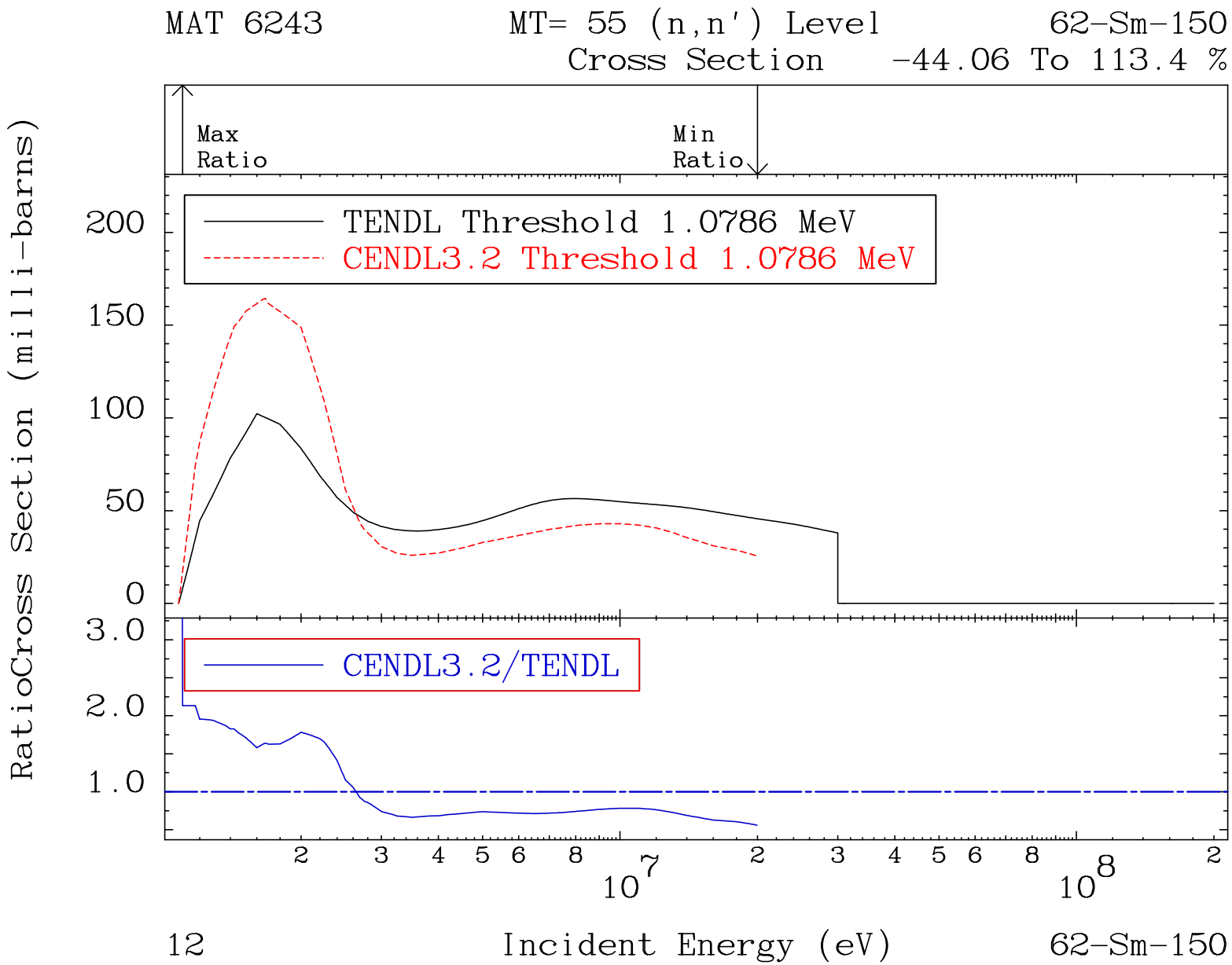

MAT 6243
(n,n') p
Cross Section
62-Sm-150
-100.0 To 108.4 %
Min Ratio
Max Ratio
TENDL Threshold 8.3316 MeV
CENDL3.2 Threshold 11.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
3.0
2.0
1.0
0.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
62-Sm-150

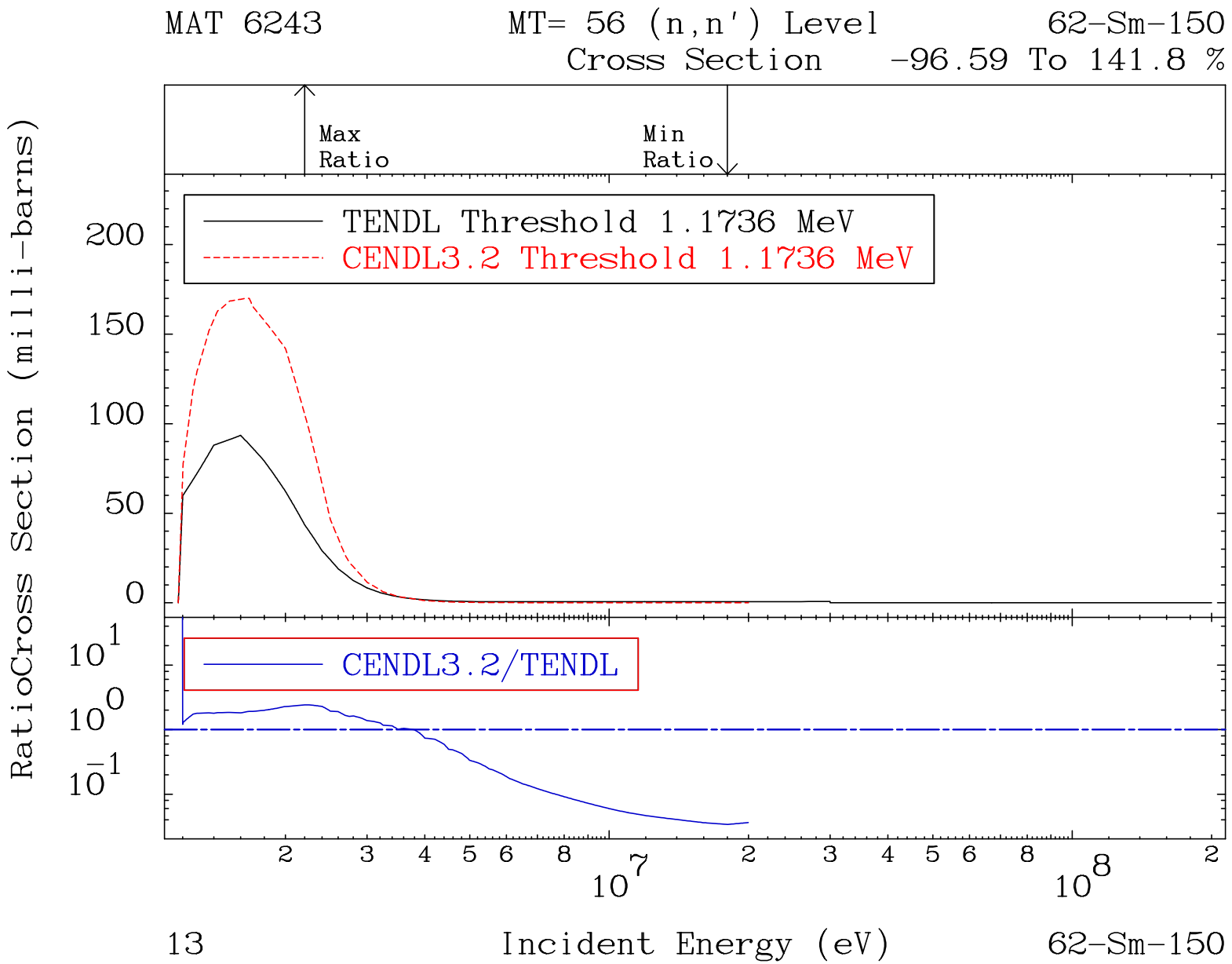

MAT 6243
MT= 51 (n,n') Level
62-Sm-150
Cross Section
-100.0 To 390.6 %
Max
Ratio
TENDL Threshold 336.20 keV
CENDL3.2 Threshold 336.25 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
CENDL3.2/TENDL
Ratio
4
0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
8
Incident Energy (eV)
62-Sm-150

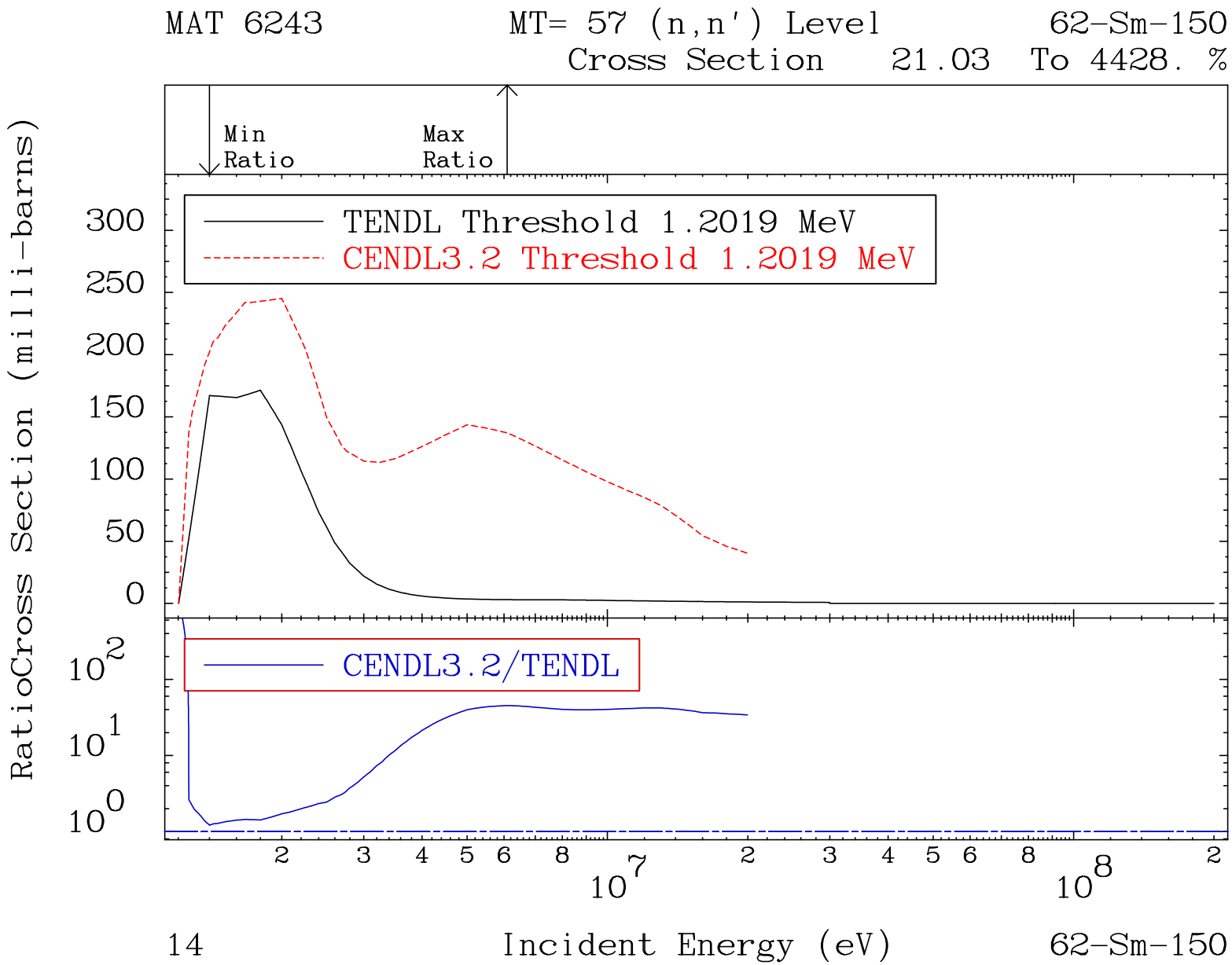

MAT 6243
MT= 52 (n,n') Level
62-Sm-150
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 745.45 keV
CENDL3.2 Threshold 745.45 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
12
6
0
8
2
3
4
5
6
8
10^6
10^7
10^8
Incident Energy (eV)
9
62-Sm-150

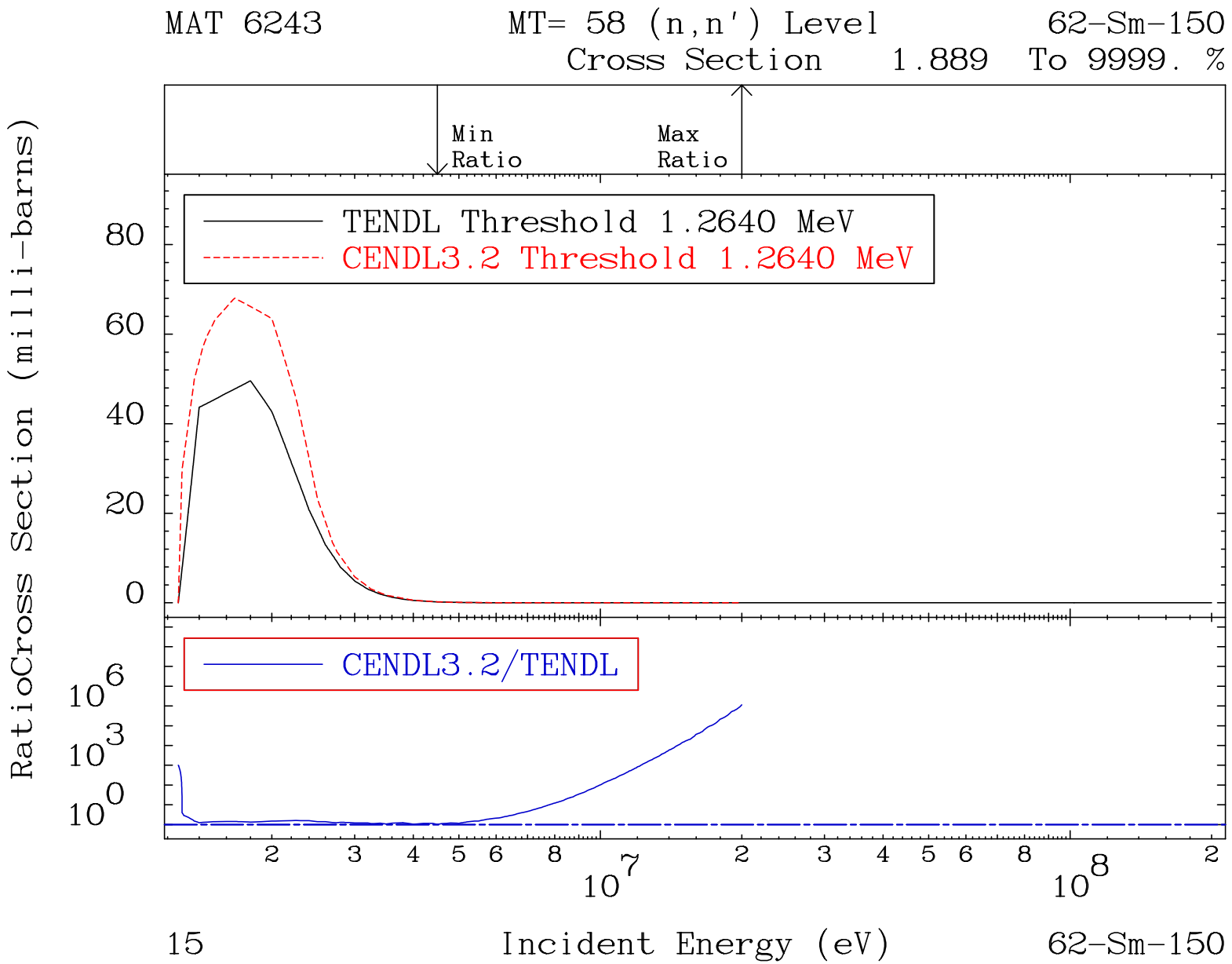

MAT 6243
MT= 53 (n,n') Level
62-Sm-150
Cross Section
-100.0 To 7.790 %
Max
Ratio
TENDL Threshold 778.58 keV
CENDL3.2 Threshold 778.58 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.2
0.6
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
10
Incident Energy (eV)
62-Sm-150

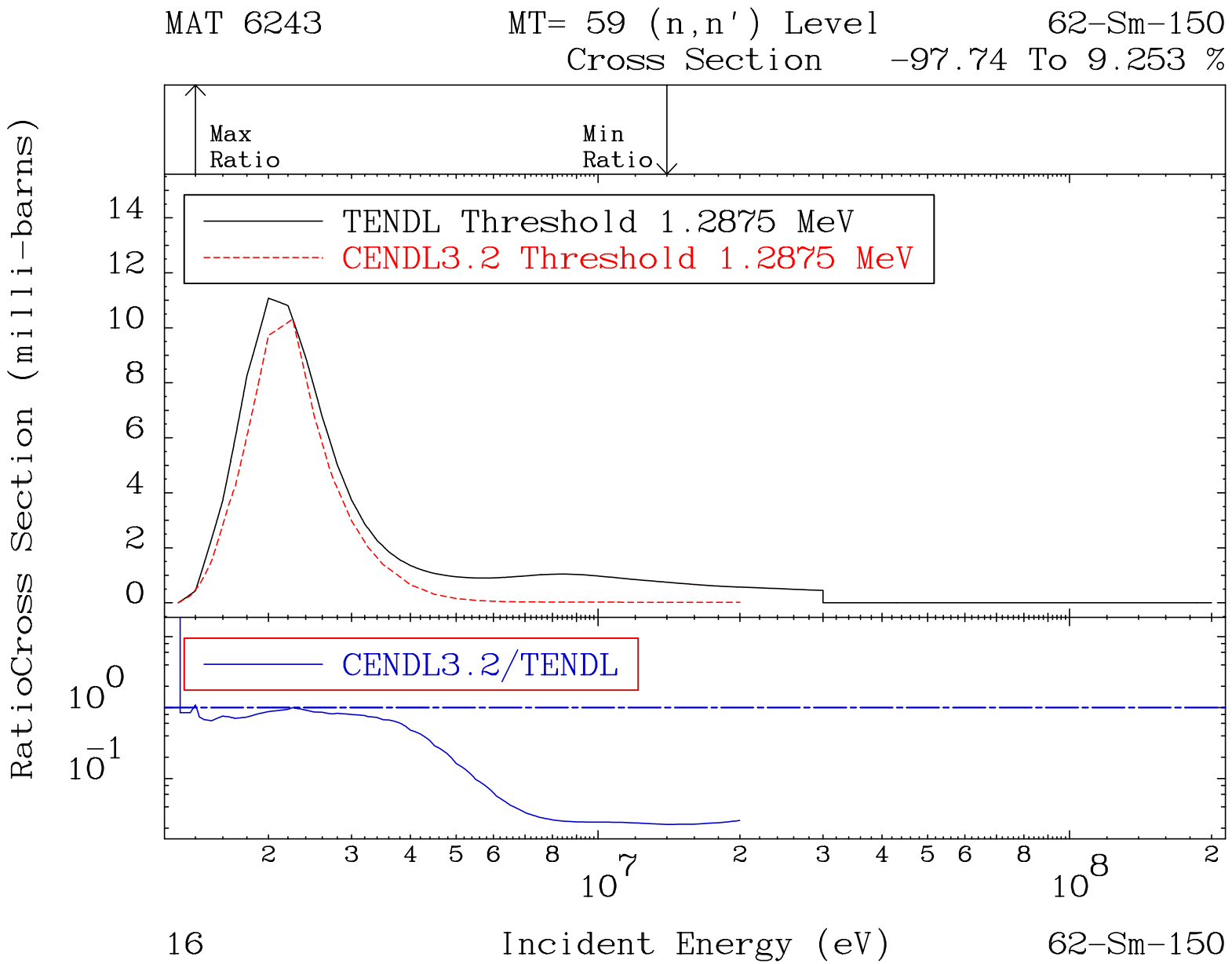

MAT 6243
MT= 54 (n,n') Level
62-Sm-150
Cross Section -100.0 To 4432. %
Min Ratio
Max Ratio
TENDL Threshold 1.0532 MeV
CENDL3.2 Threshold 1.0532 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
11
62-Sm-150

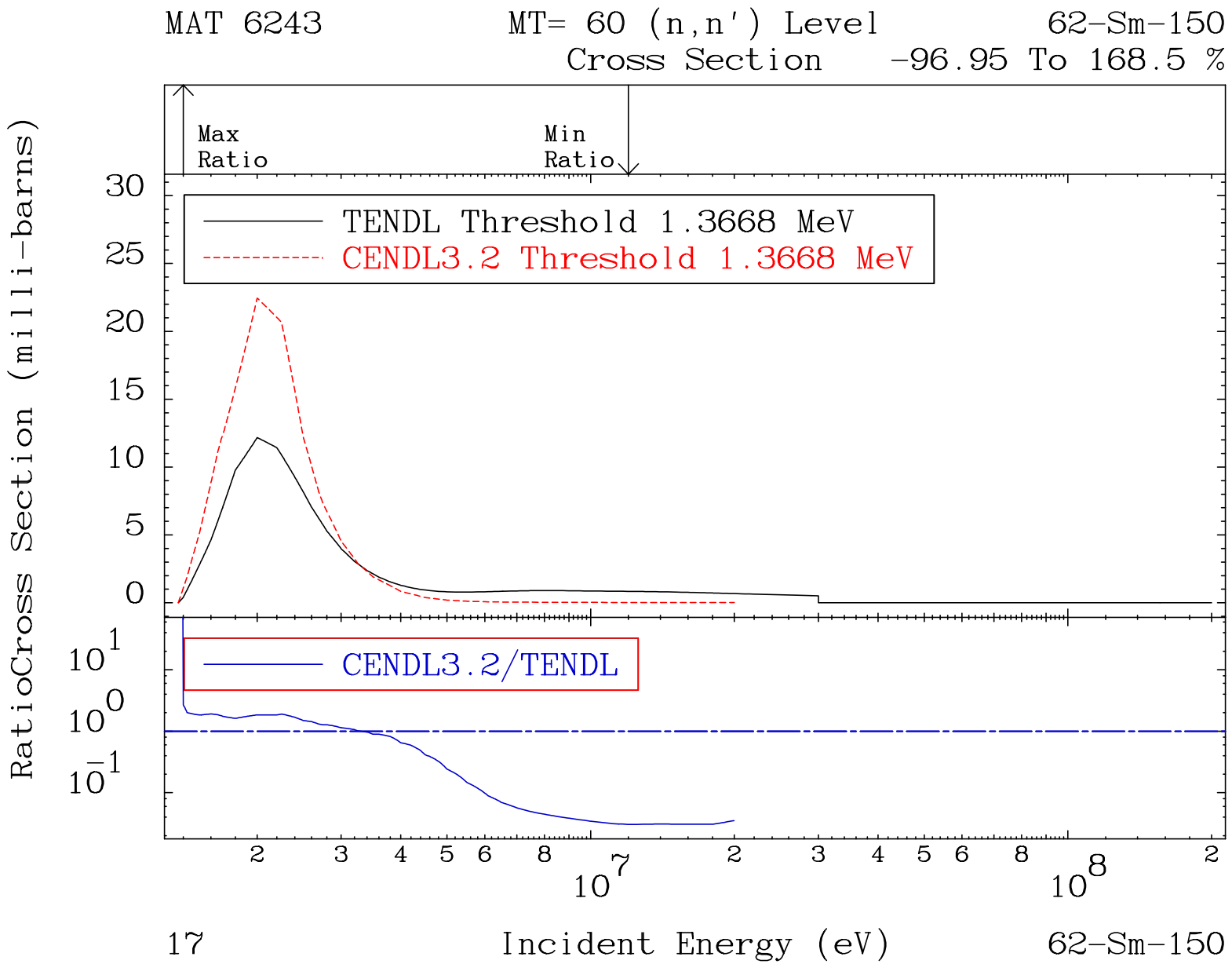

MAT 6243
MT= 55 (n,n') Level
Cross Section
62-Sm-150
-44.06 To 113.4 %
Max Ratio
Min Ratio
TENDL Threshold 1.0786 MeV
CENDL3.2 Threshold 1.0786 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
3.0
2.0
1.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
12
Incident Energy (eV)
62-Sm-150

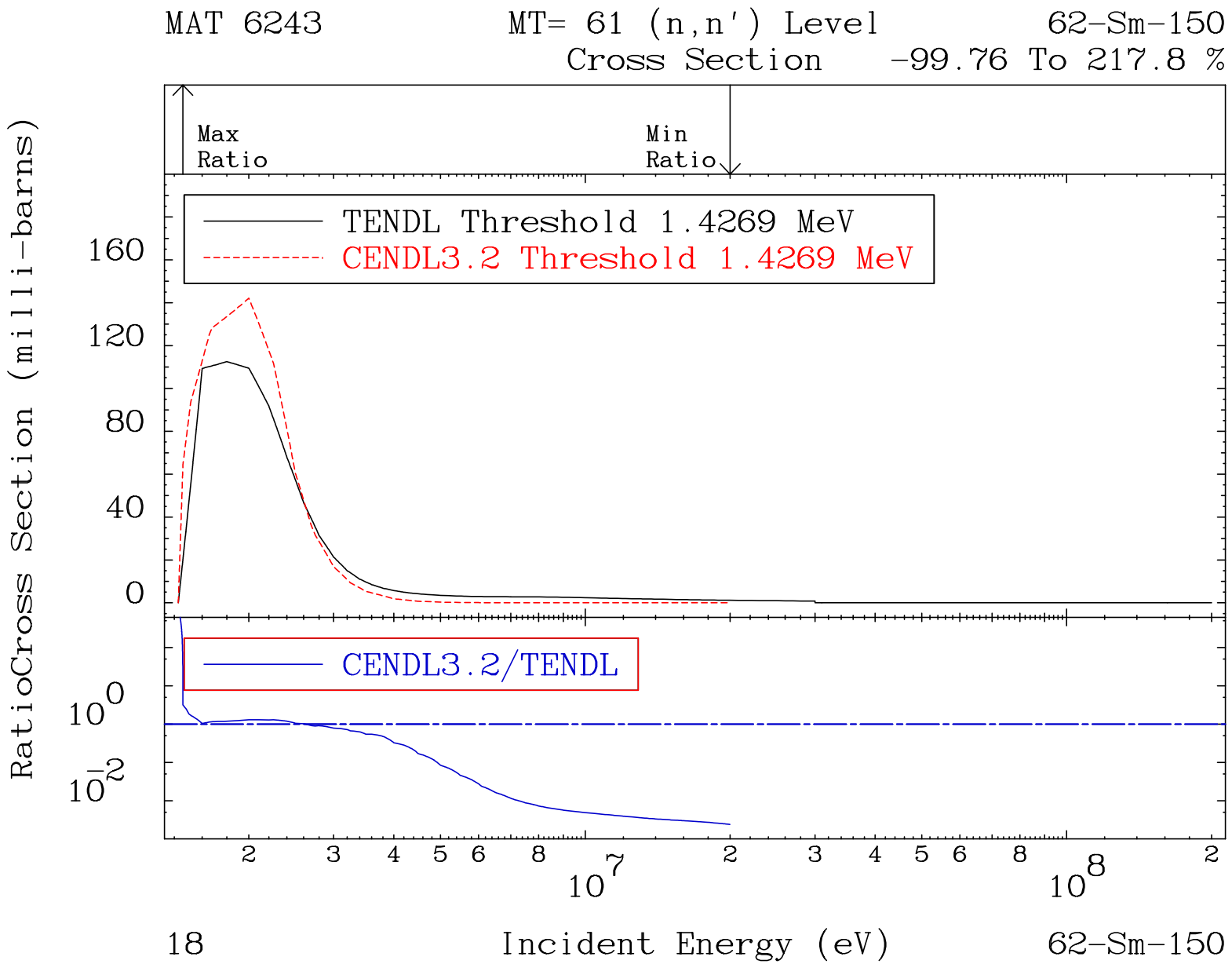

MAT 6243
MT= 56 (n,n') Level
62-Sm-150
Cross Section
-96.59 To 141.8 %
Max Ratio
Min Ratio
TENDL Threshold 1.1736 MeV
CENDL3.2 Threshold 1.1736 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
10^1
10^0
10^-1
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
13
Incident Energy (eV)
62-Sm-150

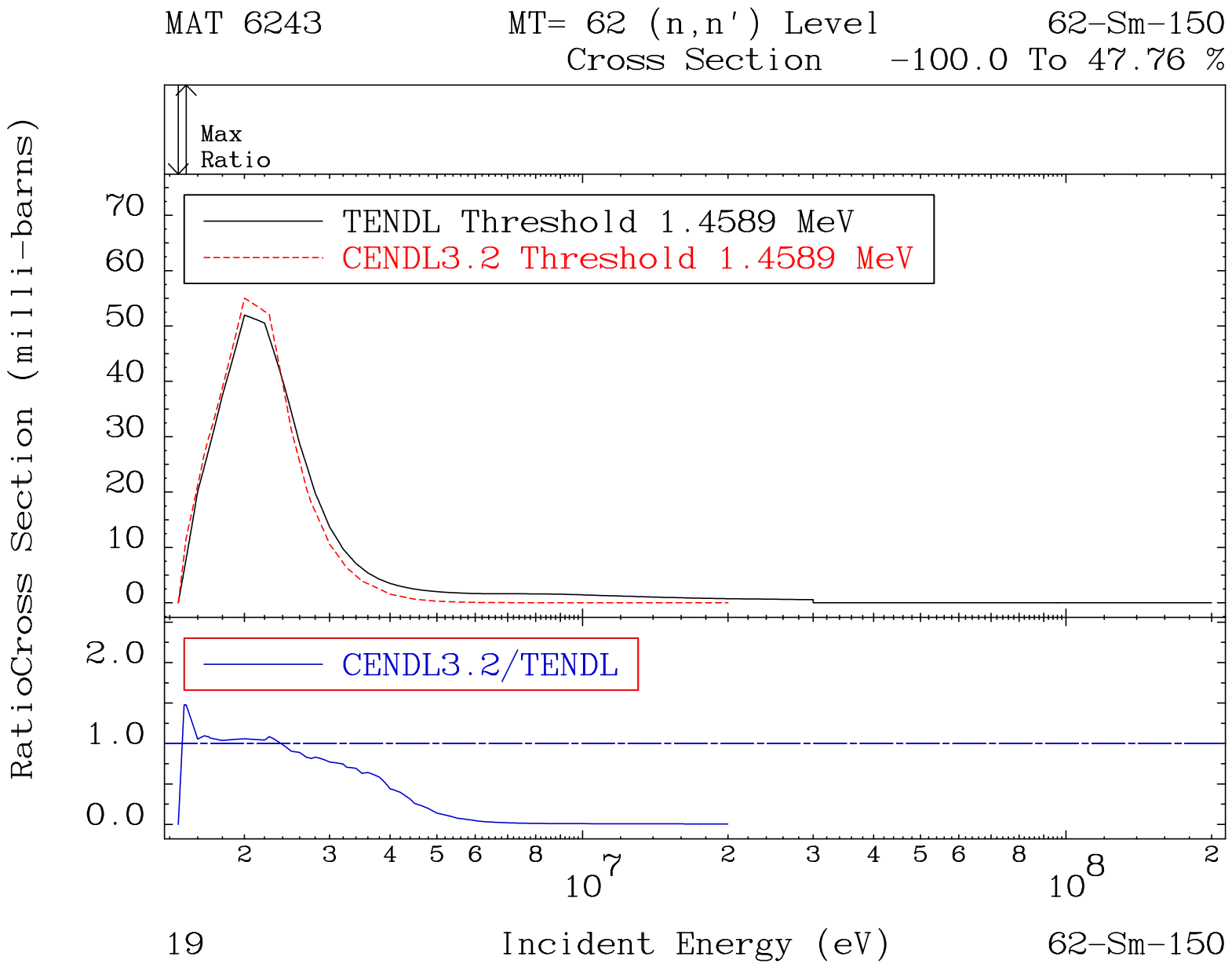

MAT 6243
MT= 57 (n,n') Level
62-Sm-150
Cross Section 21.03 To 4428. %
Min Ratio
Max Ratio
TENDL Threshold 1.2019 MeV
CENDL3.2 Threshold 1.2019 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
10^2
10^1
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
14
Incident Energy (eV)
62-Sm-150

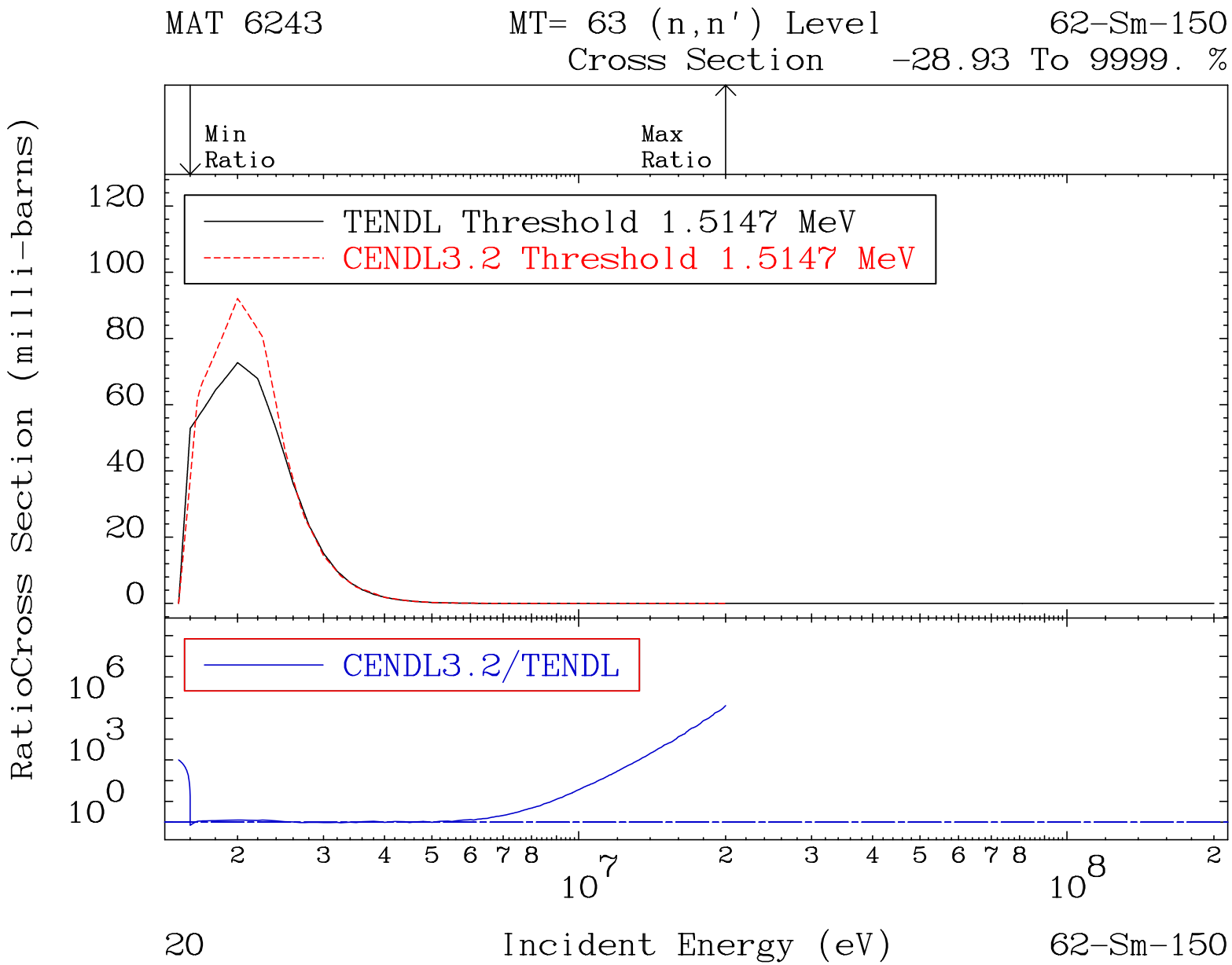

MAT 6243
MT= 58 (n,n') Level
62-Sm-150
Cross Section 1.889 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.2640 MeV
CENDL3.2 Threshold 1.2640 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
10^6
10^3
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
15
Incident Energy (eV)
62-Sm-150

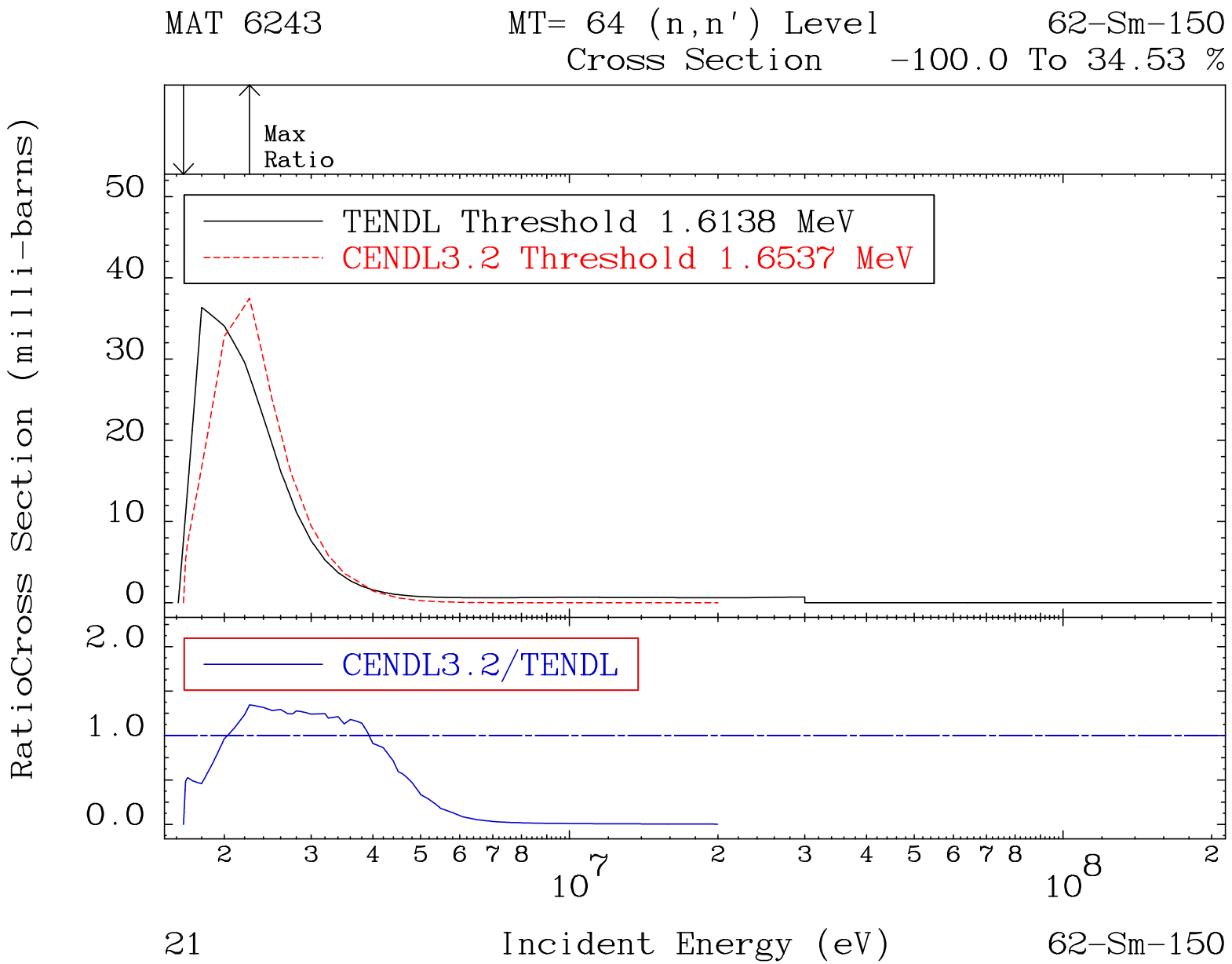

MAT 6243
MT= 59 (n,n') Level
62-Sm-150
Cross Section
-97.74 To 9.253 %
Max Ratio
Min Ratio
TENDL Threshold 1.2875 MeV
CENDL3.2 Threshold 1.2875 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
16
62-Sm-150

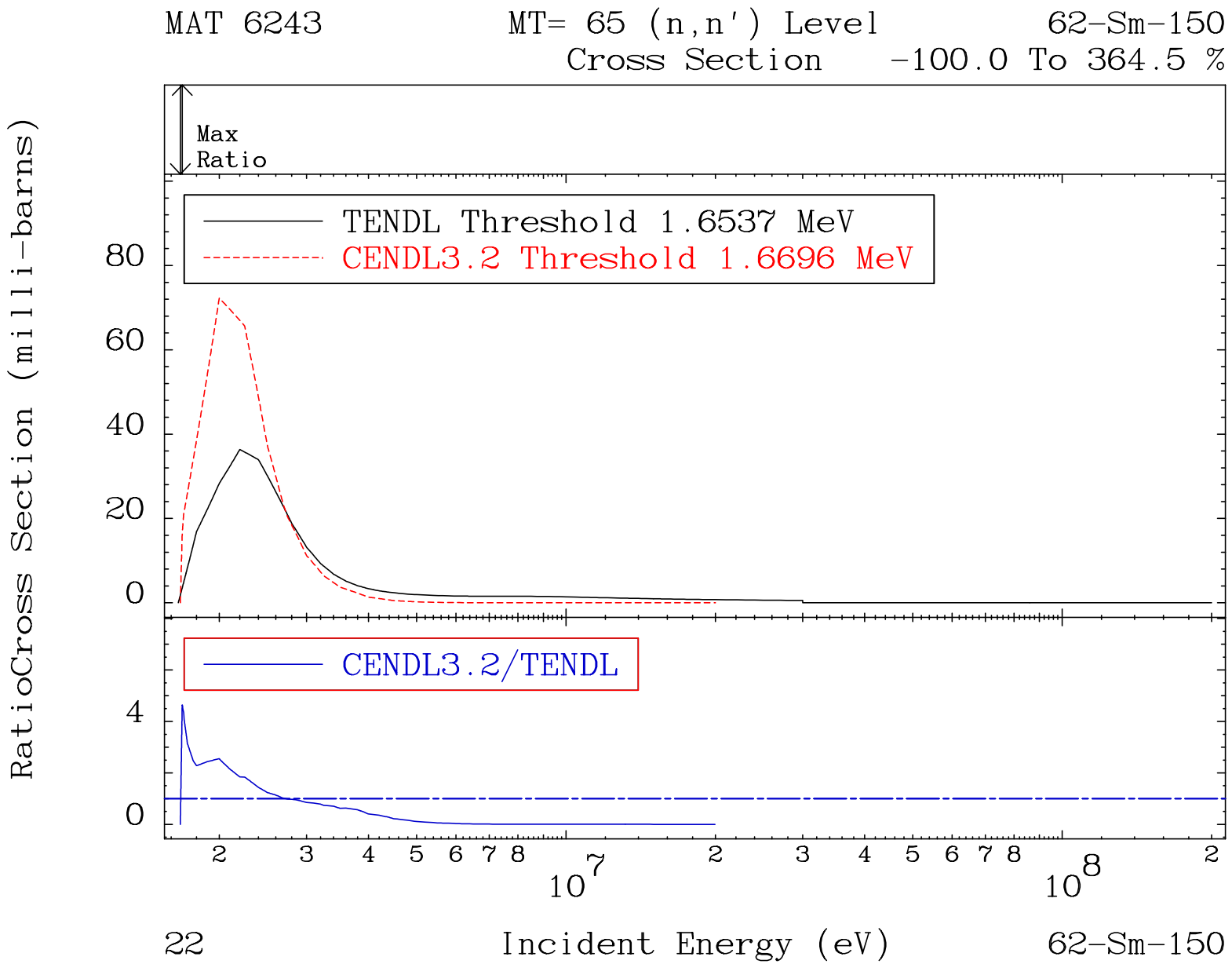

MAT 6243
MT= 60 (n,n') Level
62-Sm-150
Cross Section
-96.95 To 168.5 %
Max Ratio
Min Ratio
TENDL Threshold 1.3668 MeV
CENDL3.2 Threshold 1.3668 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
10^1
10^0
10^-1
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
17
Incident Energy (eV)
62-Sm-150

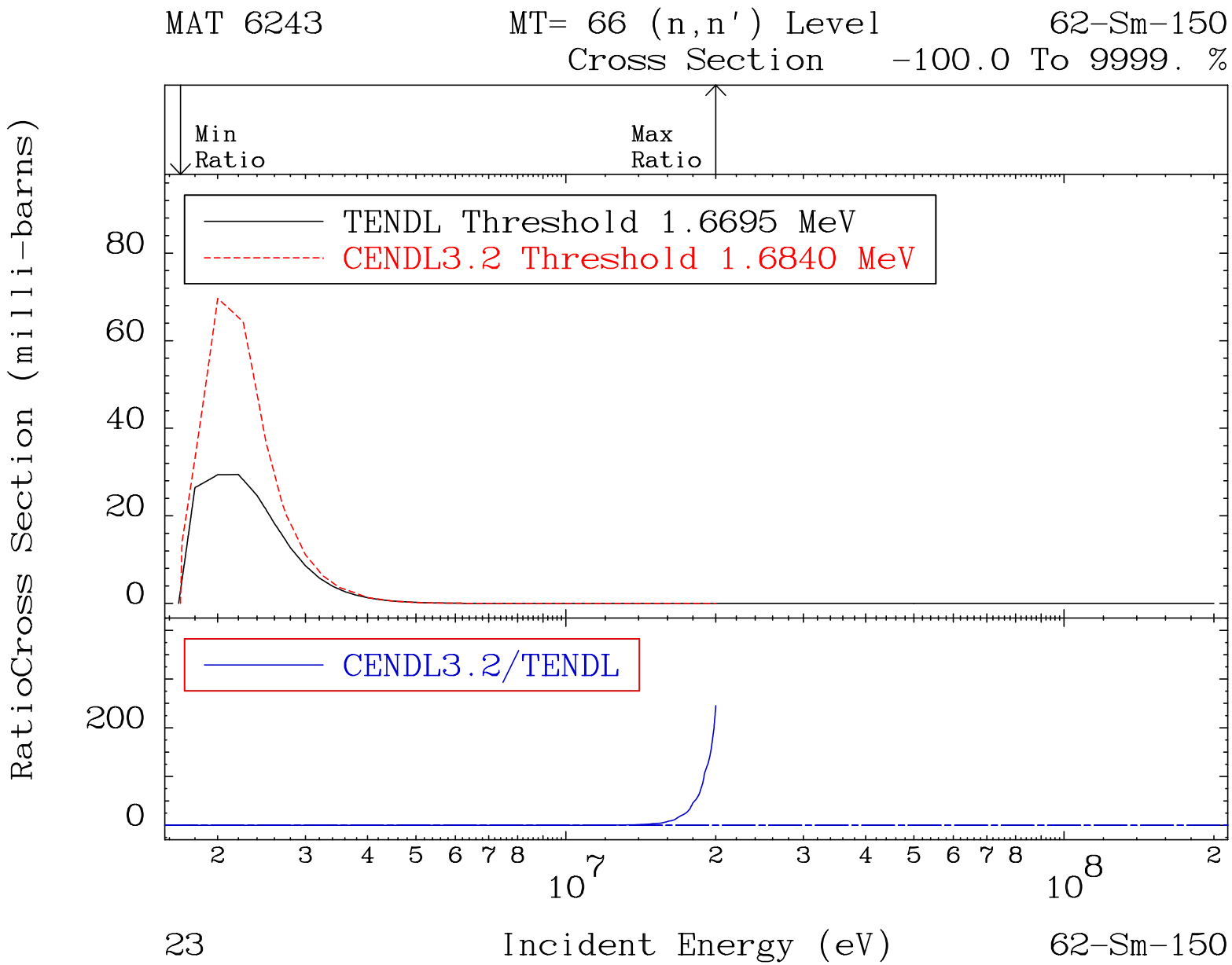

MAT 6243
MT= 61 (n,n') Level
62-Sm-150
Cross Section
-99.76 To 217.8 %
Max Ratio
Min Ratio
TENDL Threshold 1.4269 MeV
CENDL3.2 Threshold 1.4269 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
10^0
10^-2
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
18
Incident Energy (eV)
62-Sm-150

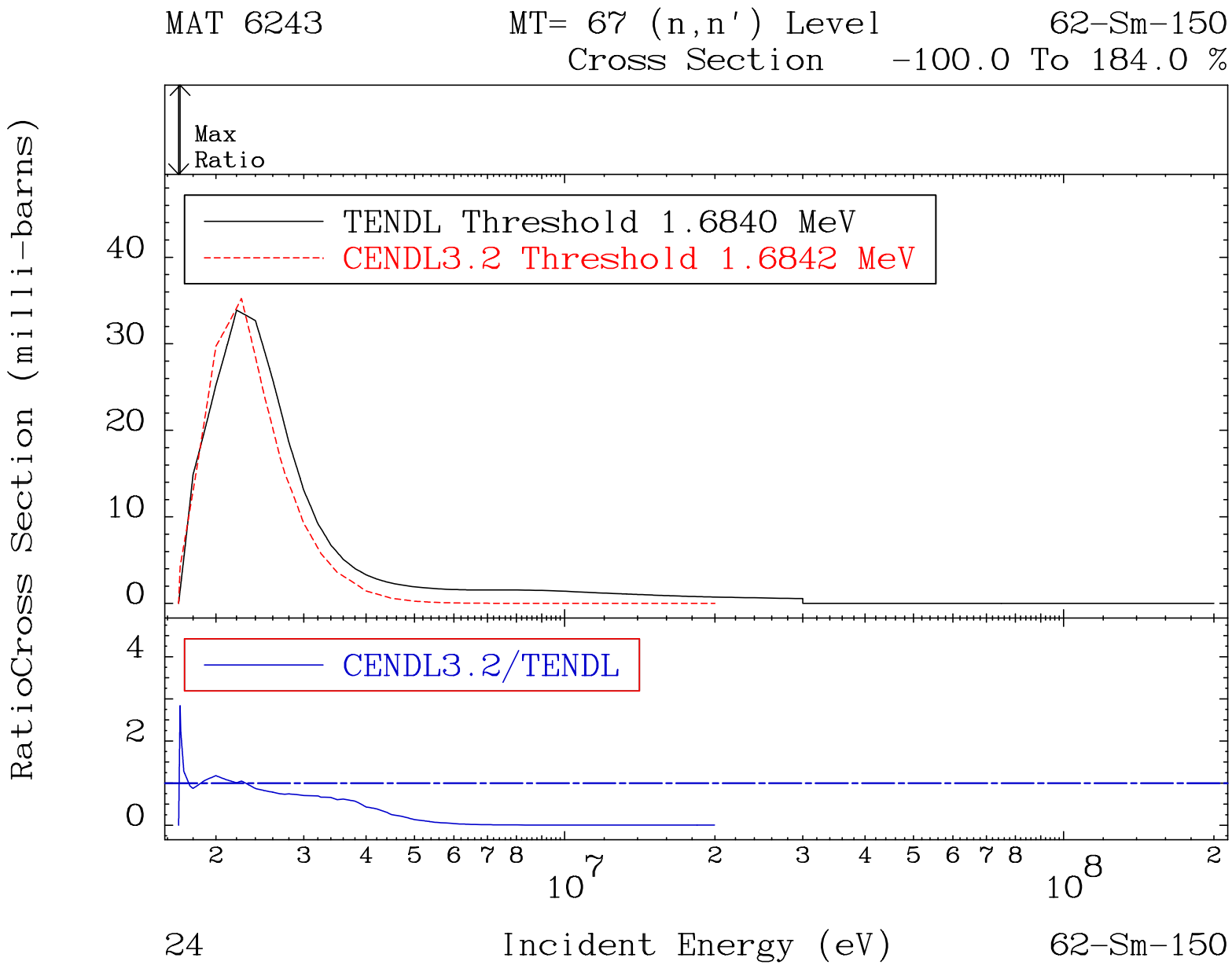

MAT 6243
MT= 62 (n,n') Level
62-Sm-150
Cross Section
-100.0 To 47.76 %
Max
Ratio
TENDL Threshold 1.4589 MeV
CENDL3.2 Threshold 1.4589 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
2.0
1.0
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
19
Incident Energy (eV)
62-Sm-150

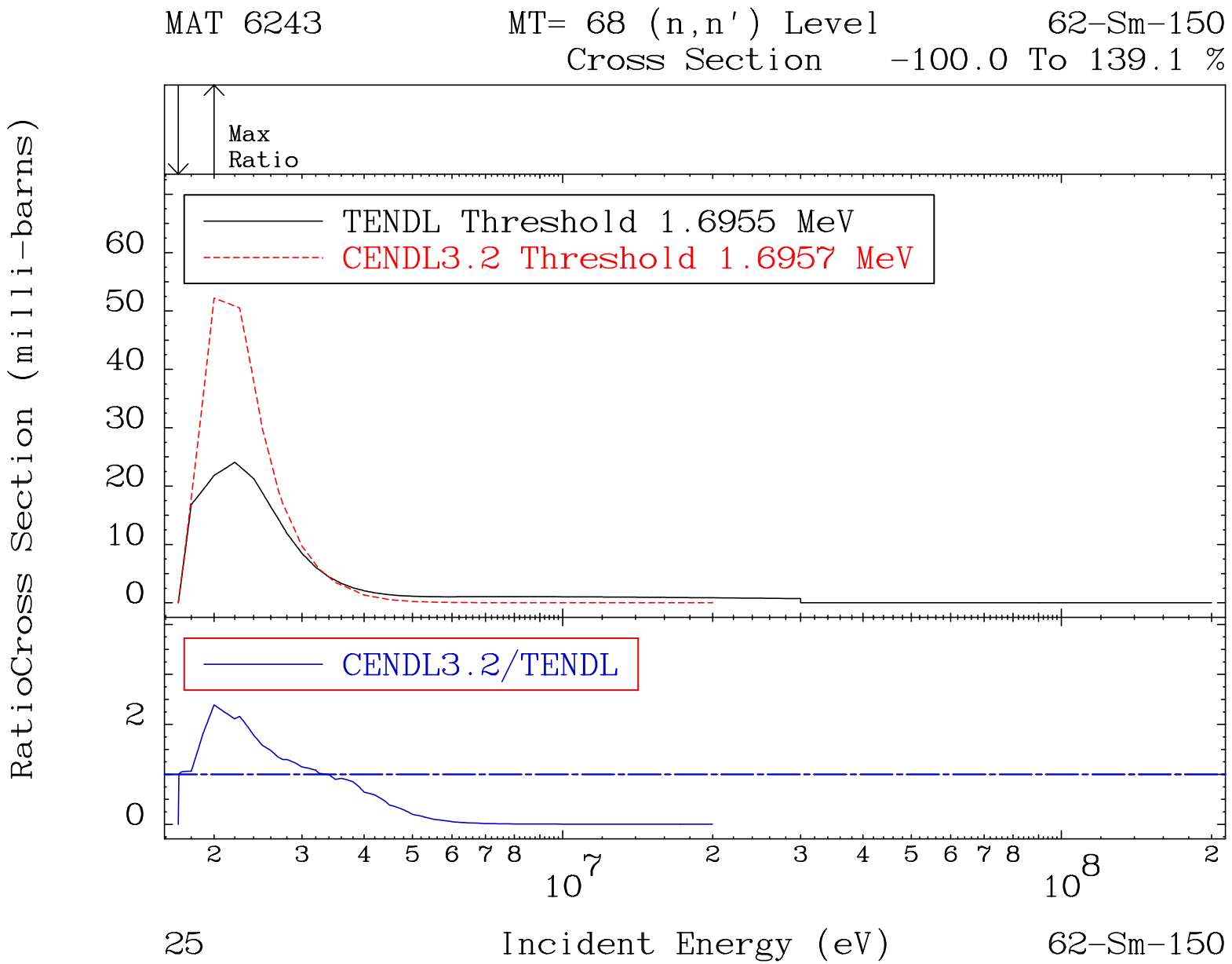

MAT 6243
MT= 63 (n,n') Level
62-Sm-150
Cross Section
-28.93 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.5147 MeV
CENDL3.2 Threshold 1.5147 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
10^6
10^3
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
62-Sm-150

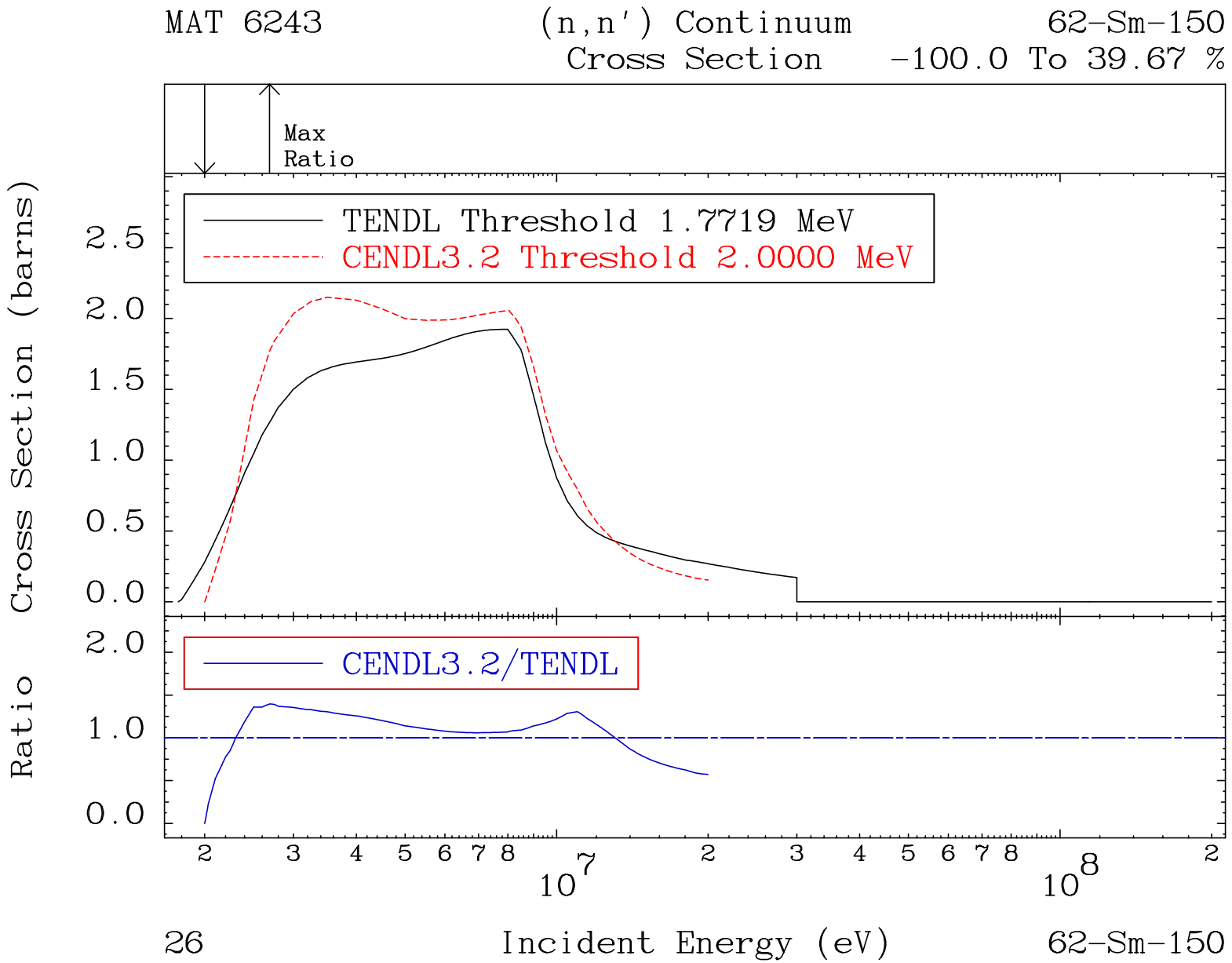

MAT 6243
MT= 64 (n,n') Level
62-Sm-150
Cross Section
-100.0 To 34.53 %
Max
Ratio
TENDL Threshold 1.6138 MeV
CENDL3.2 Threshold 1.6537 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
2.0
1.0
0.0
2
3
4
5
6
7
8
10^7
10^8
21
Incident Energy (eV)
62-Sm-150

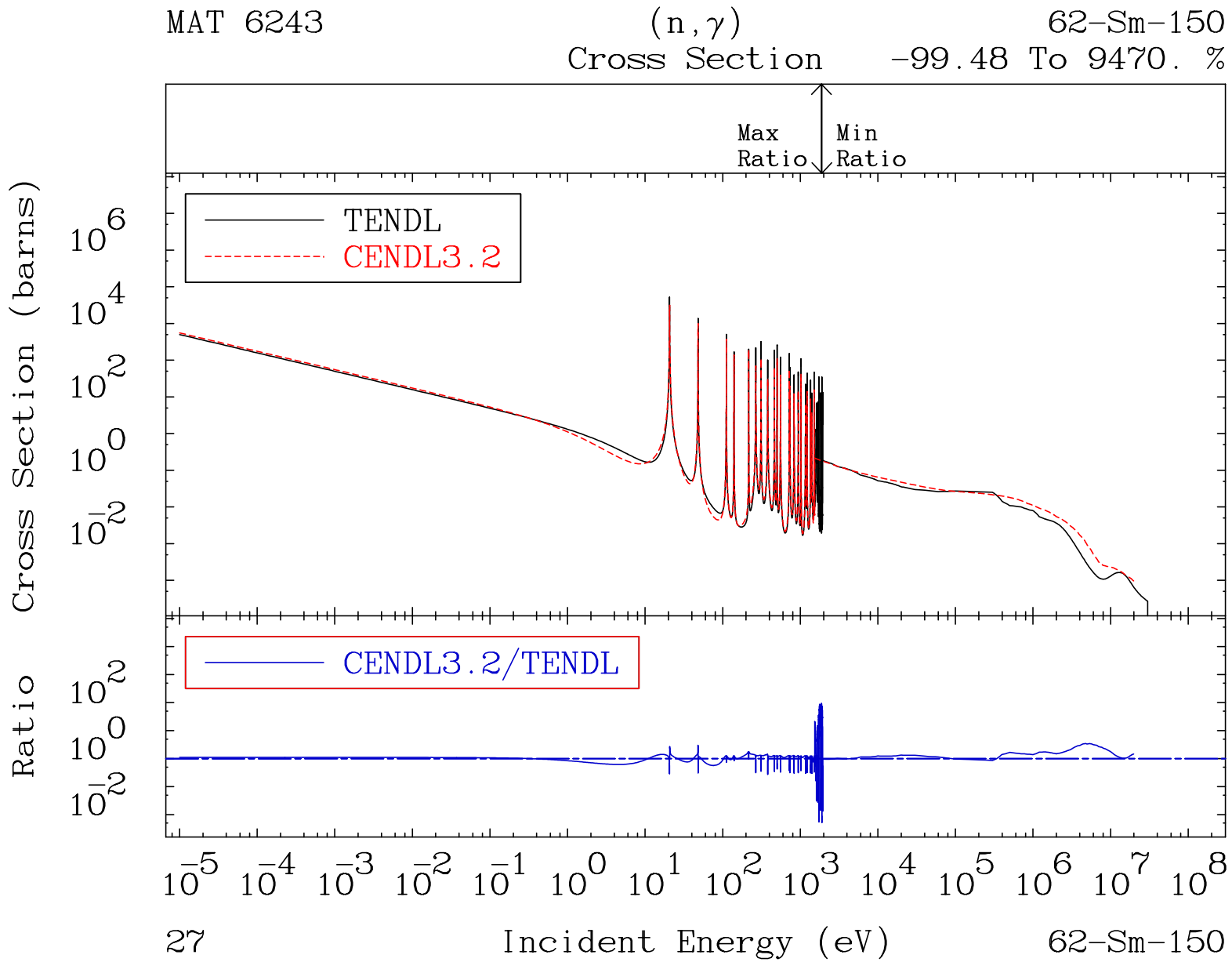

MAT 6243
MT= 65 (n,n') Level
62-Sm-150
Cross Section
-100.0 To 364.5 %
Max
Ratio
TENDL Threshold 1.6537 MeV
CENDL3.2 Threshold 1.6696 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
4
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
62-Sm-150

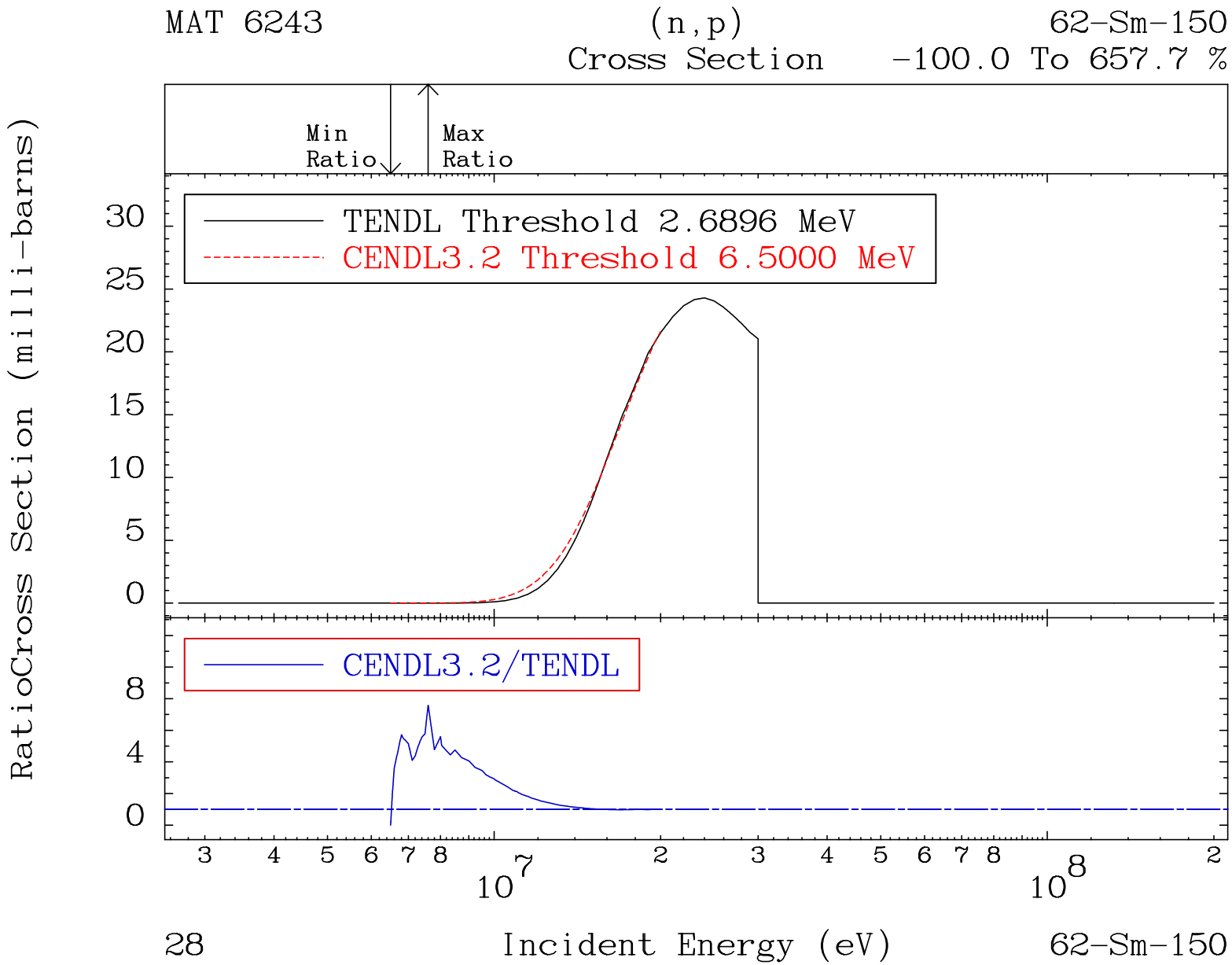

MAT 6243
MT= 66 (n,n') Level
62-Sm-150
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.6695 MeV
CENDL3.2 Threshold 1.6840 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
200
0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
62-Sm-150

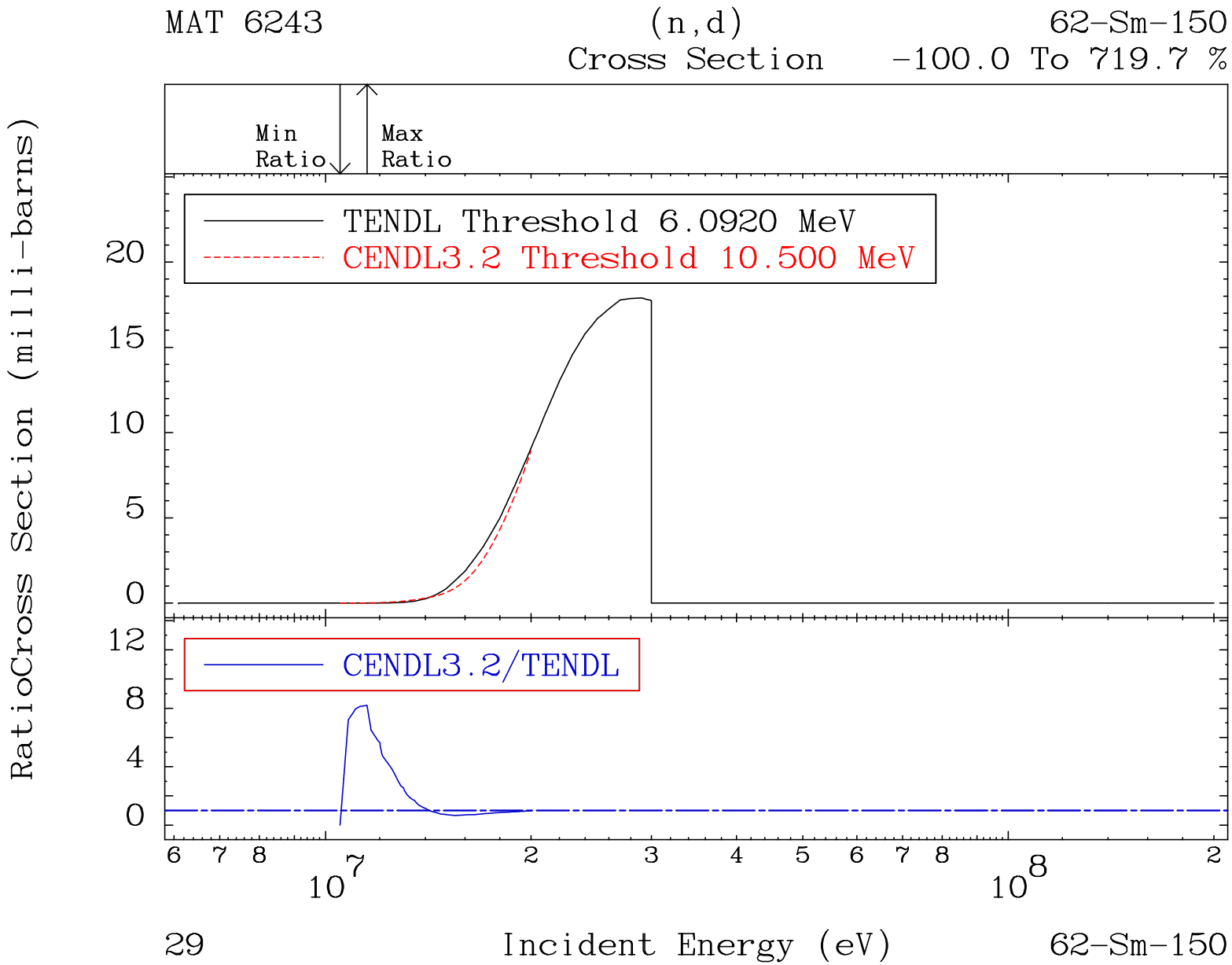

MAT 6243
MT= 67 (n,n') Level
62-Sm-150
Cross Section
-100.0 To 184.0 %
Max
Ratio
TENDL Threshold 1.6840 MeV
CENDL3.2 Threshold 1.6842 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
4
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
62-Sm-150

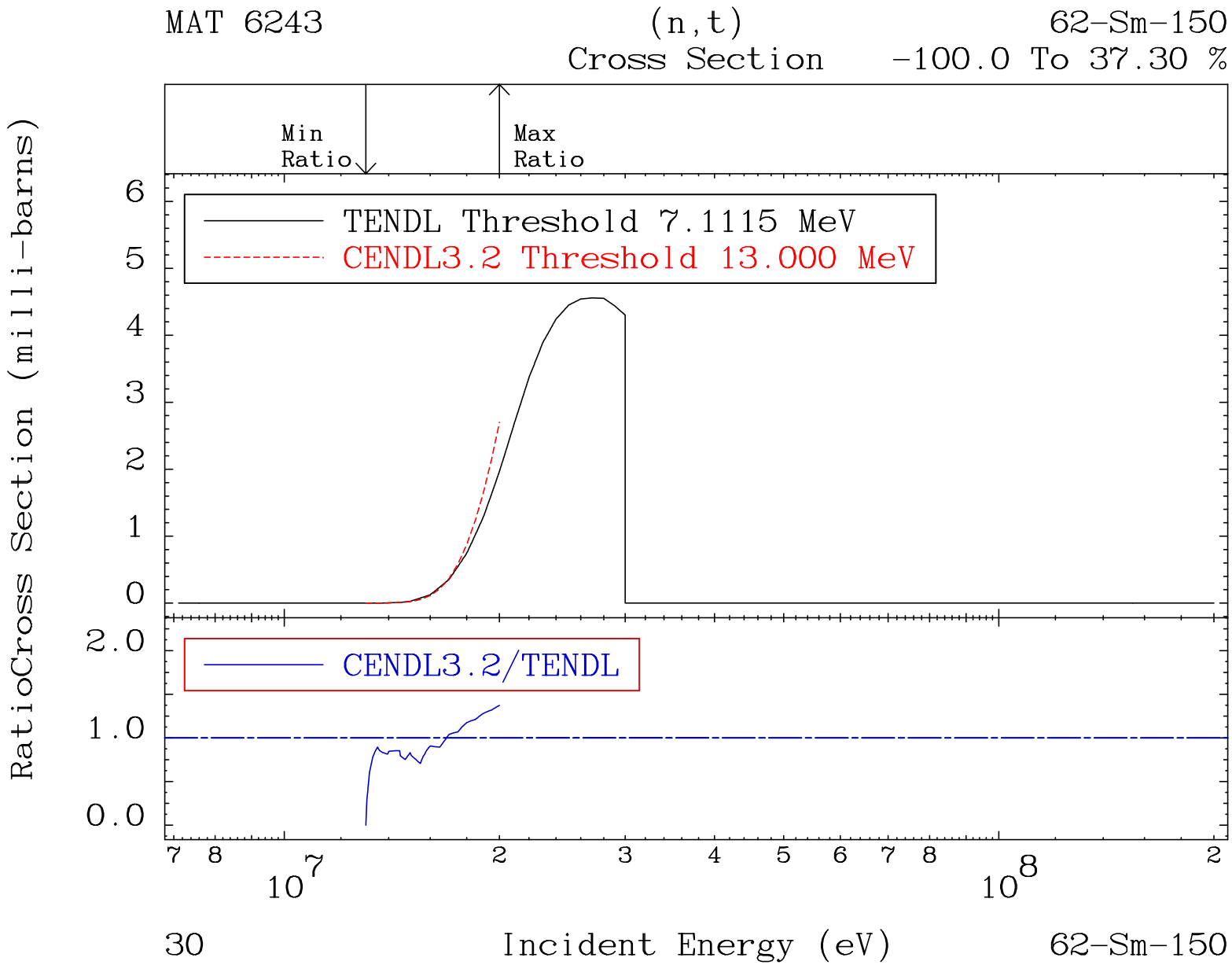

MAT 6243
MT= 68 (n,n') Level
62-Sm-150
Cross Section
-100.0 To 139.1 %
Max
Ratio
TENDL Threshold 1.6955 MeV
CENDL3.2 Threshold 1.6957 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
62-Sm-150

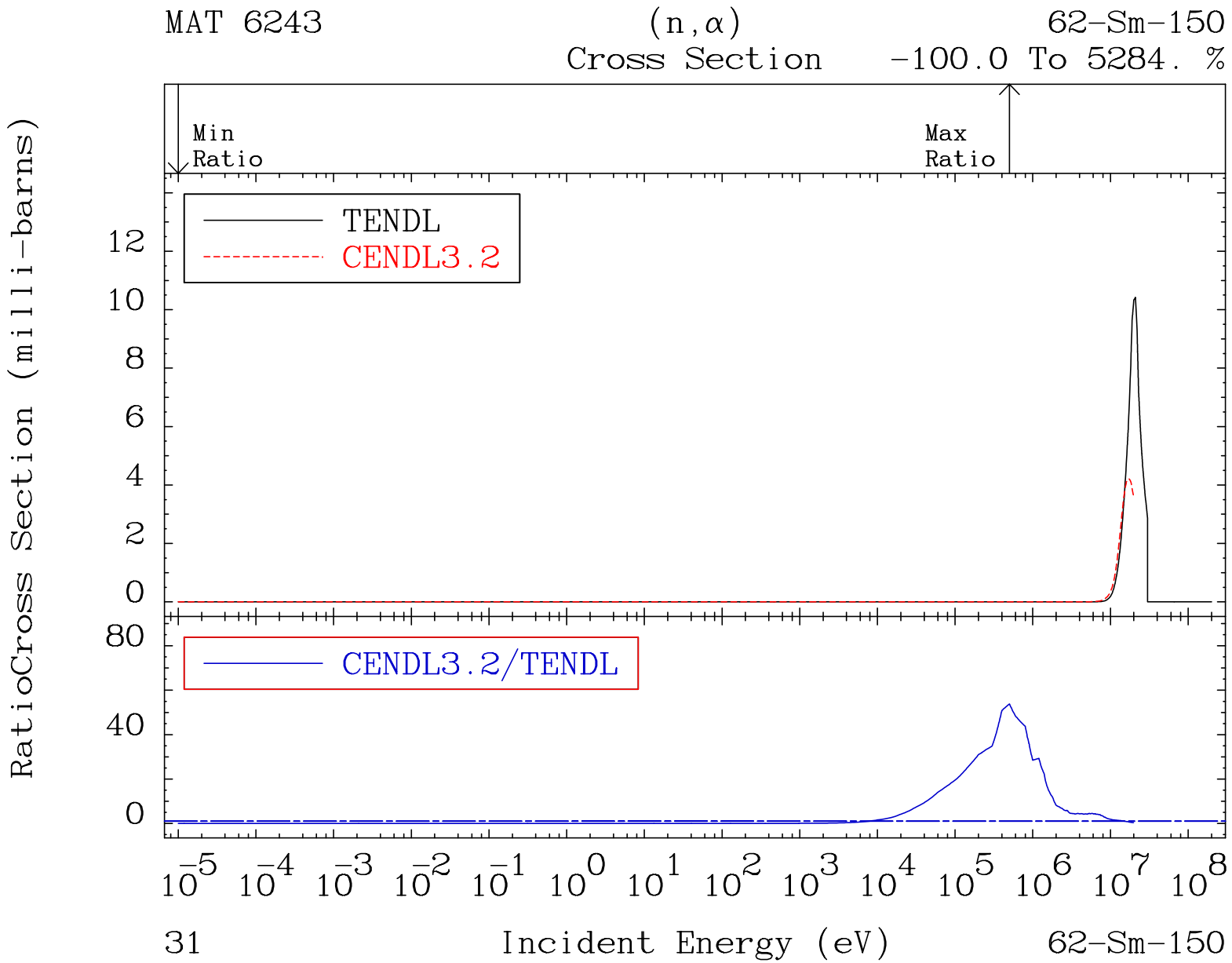

MAT 6243
(n,n') Continuum
Cross Section
62-Sm-150
-100.0 To 39.67 %
Max
Ratio
TENDL Threshold 1.7719 MeV
CENDL3.2 Threshold 2.0000 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
62-Sm-150

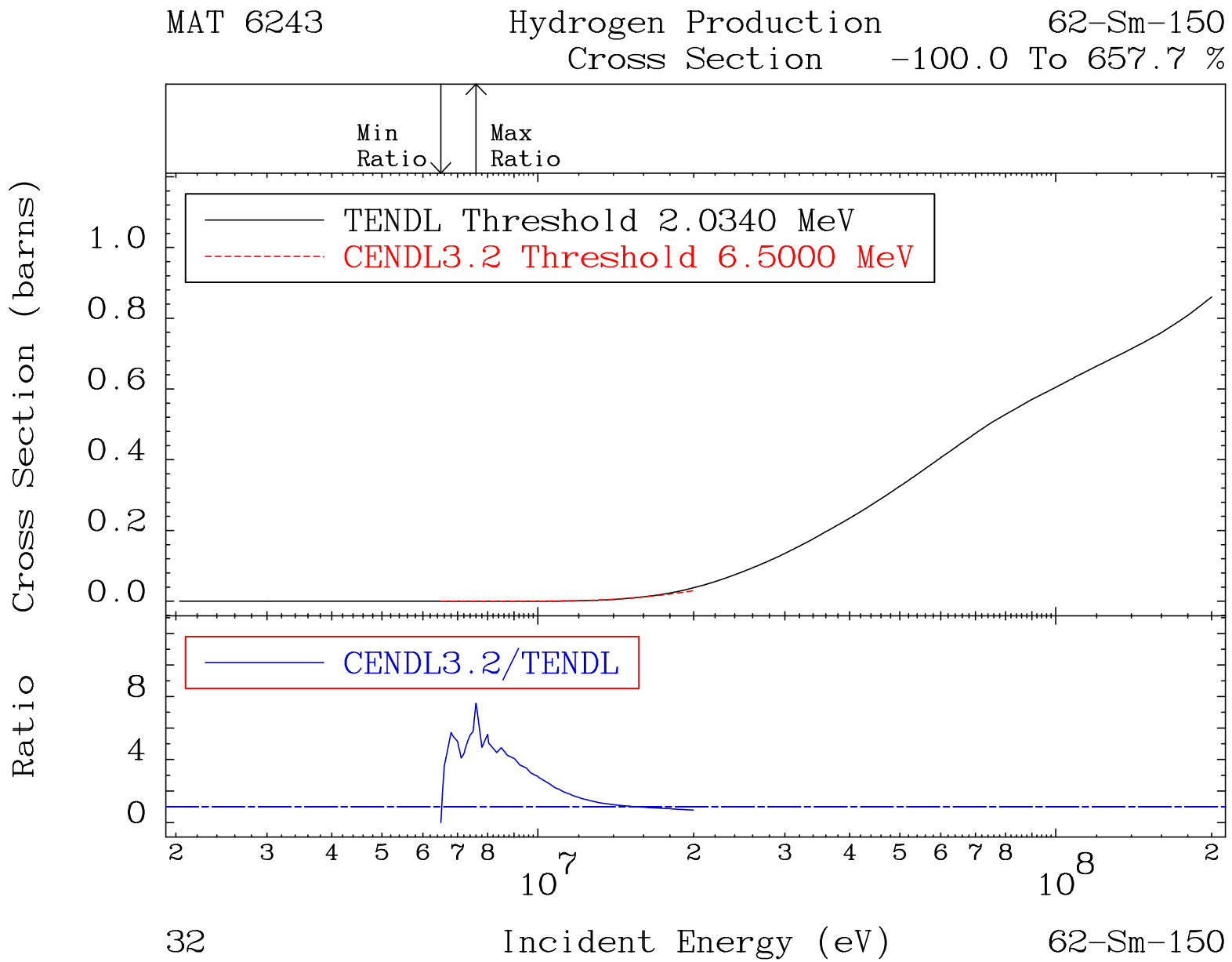

MAT 6243
(n,γ)
Cross Section
62-Sm-150
-99.48 To 9470. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
27
62-Sm-150

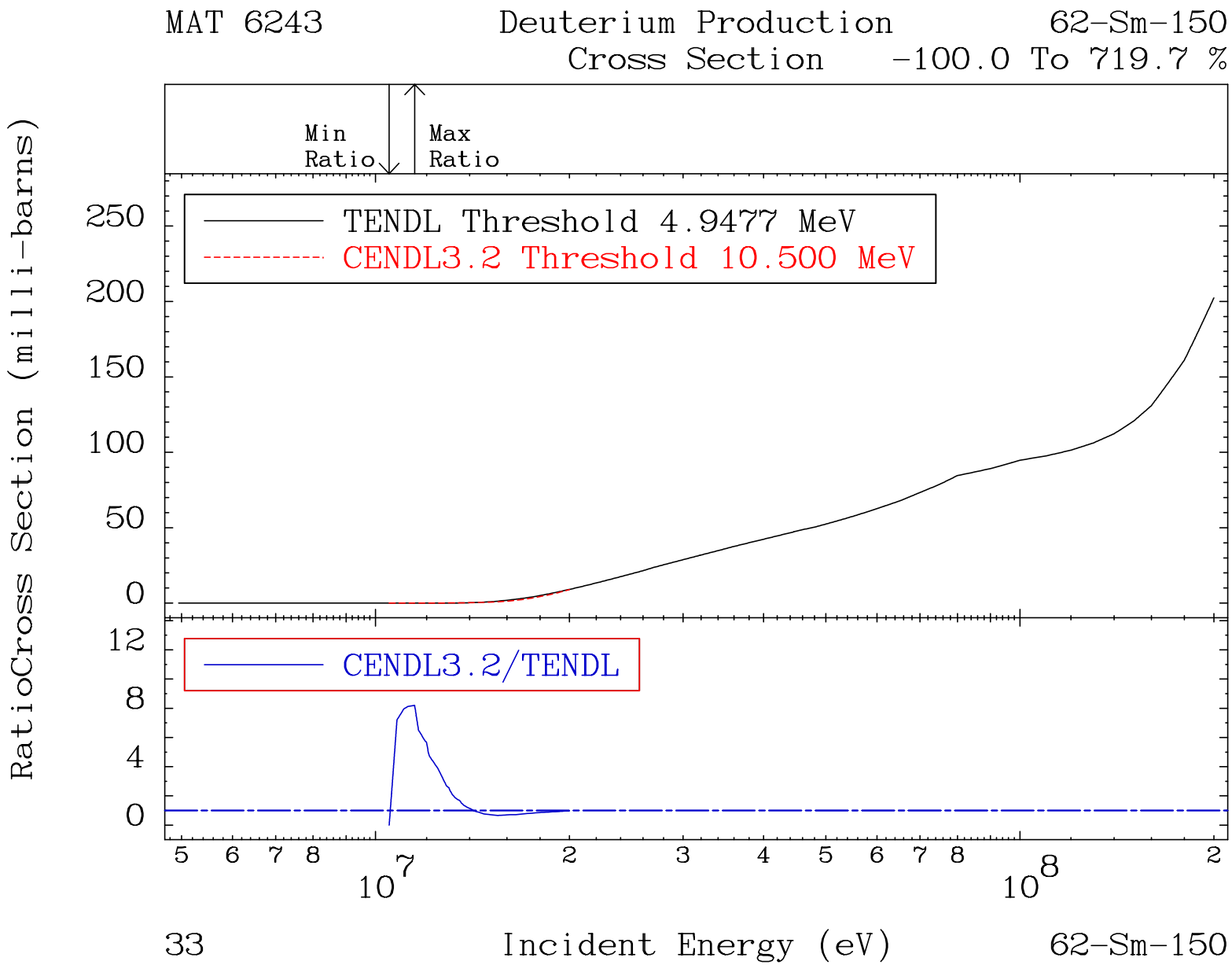

MAT 6243
(n,p)
Cross Section
62-Sm-150
-100.0 To 657.7 %
Min Ratio
Max Ratio
TENDL Threshold 2.6896 MeV
CENDL3.2 Threshold 6.5000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
8
4
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
28
Incident Energy (eV)
62-Sm-150

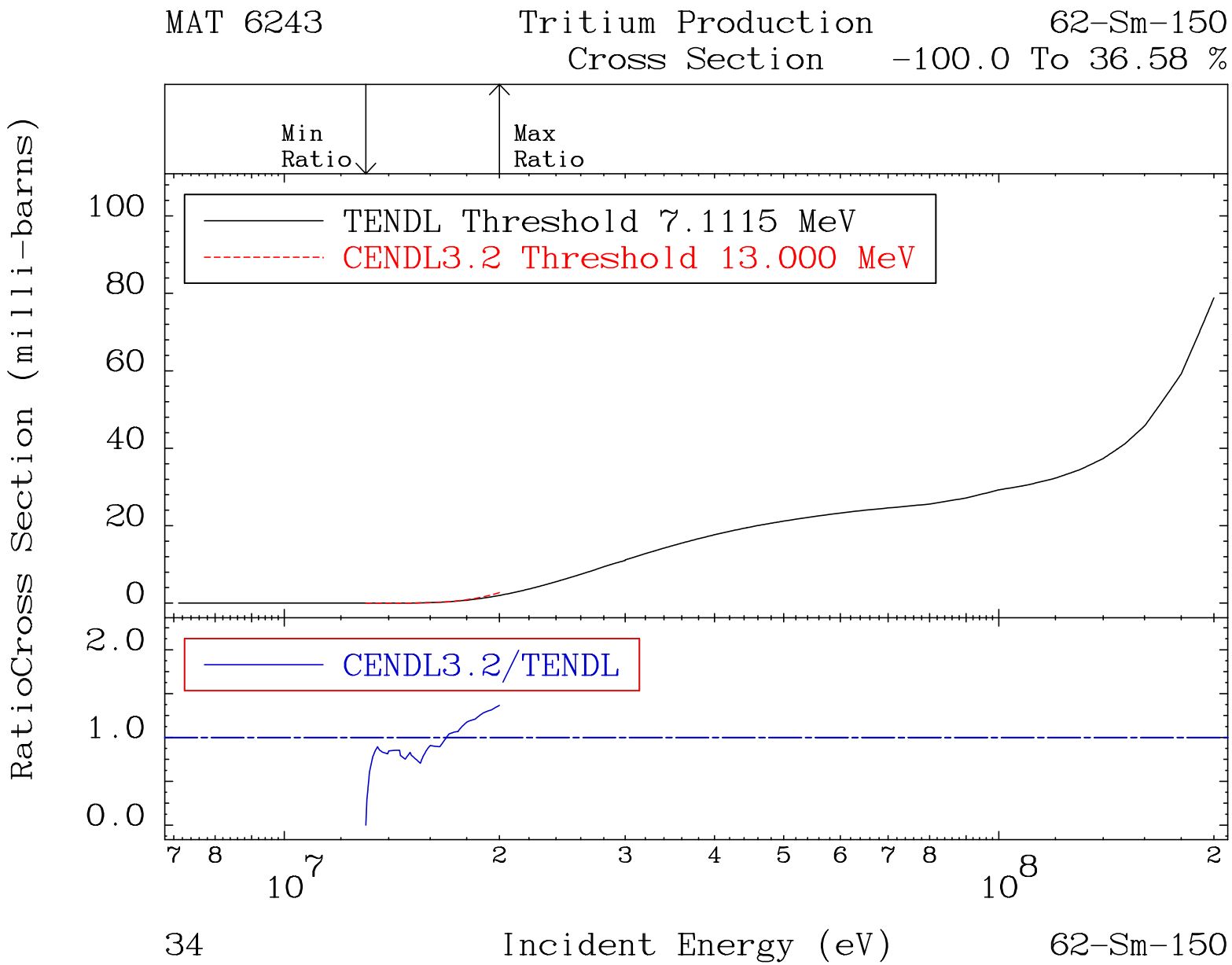

MAT 6243
(n,d)
Cross Section
62-Sm-150
-100.0 To 719.7 %
Min Ratio
Max Ratio
TENDL Threshold 6.0920 MeV
CENDL3.2 Threshold 10.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
29
62-Sm-150

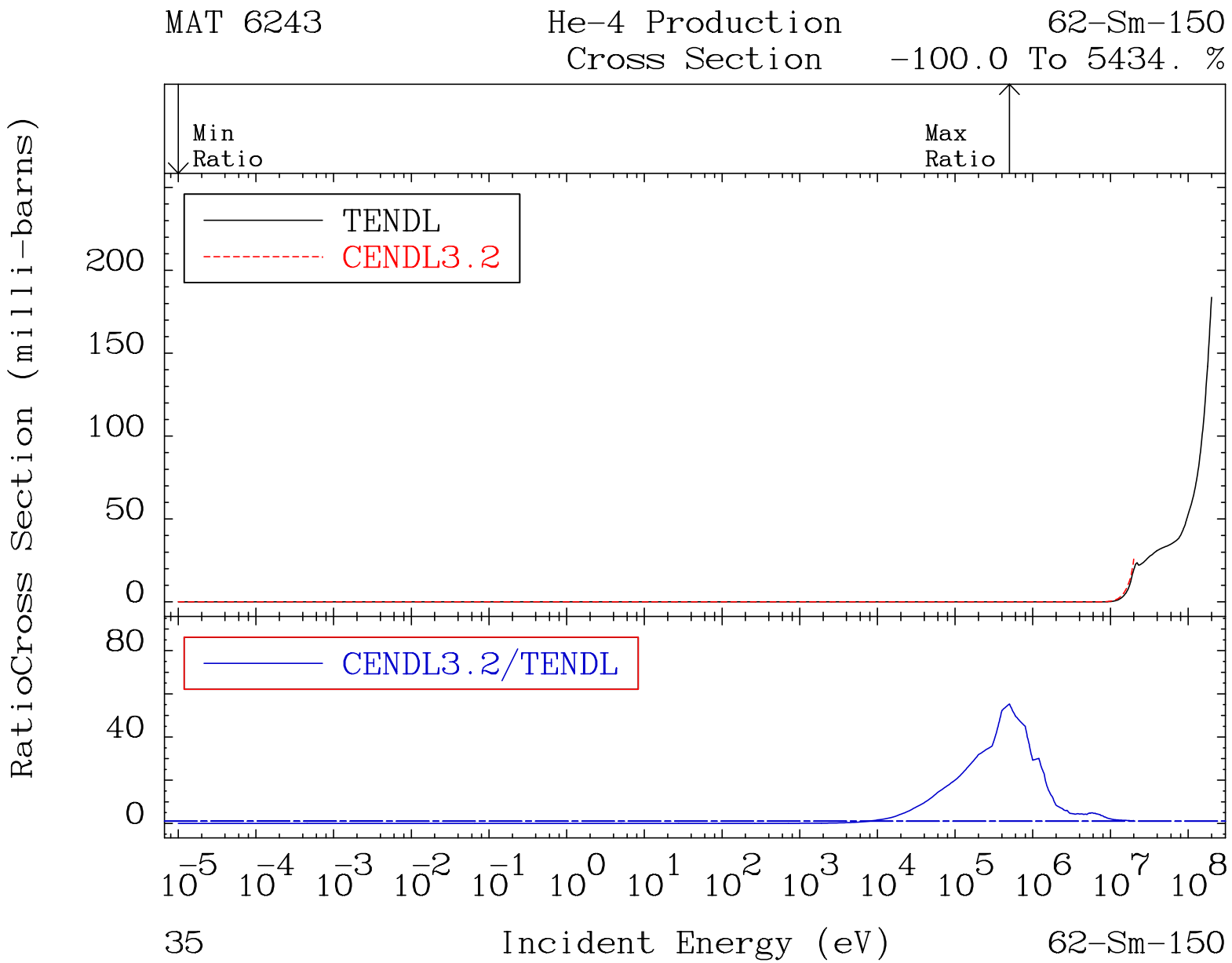

MAT 6243
(n,t)
Cross Section
62-Sm-150
-100.0 To 37.30 %
Min Ratio
Max Ratio
TENDL Threshold 7.1115 MeV
CENDL3.2 Threshold 13.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
30
62-Sm-150

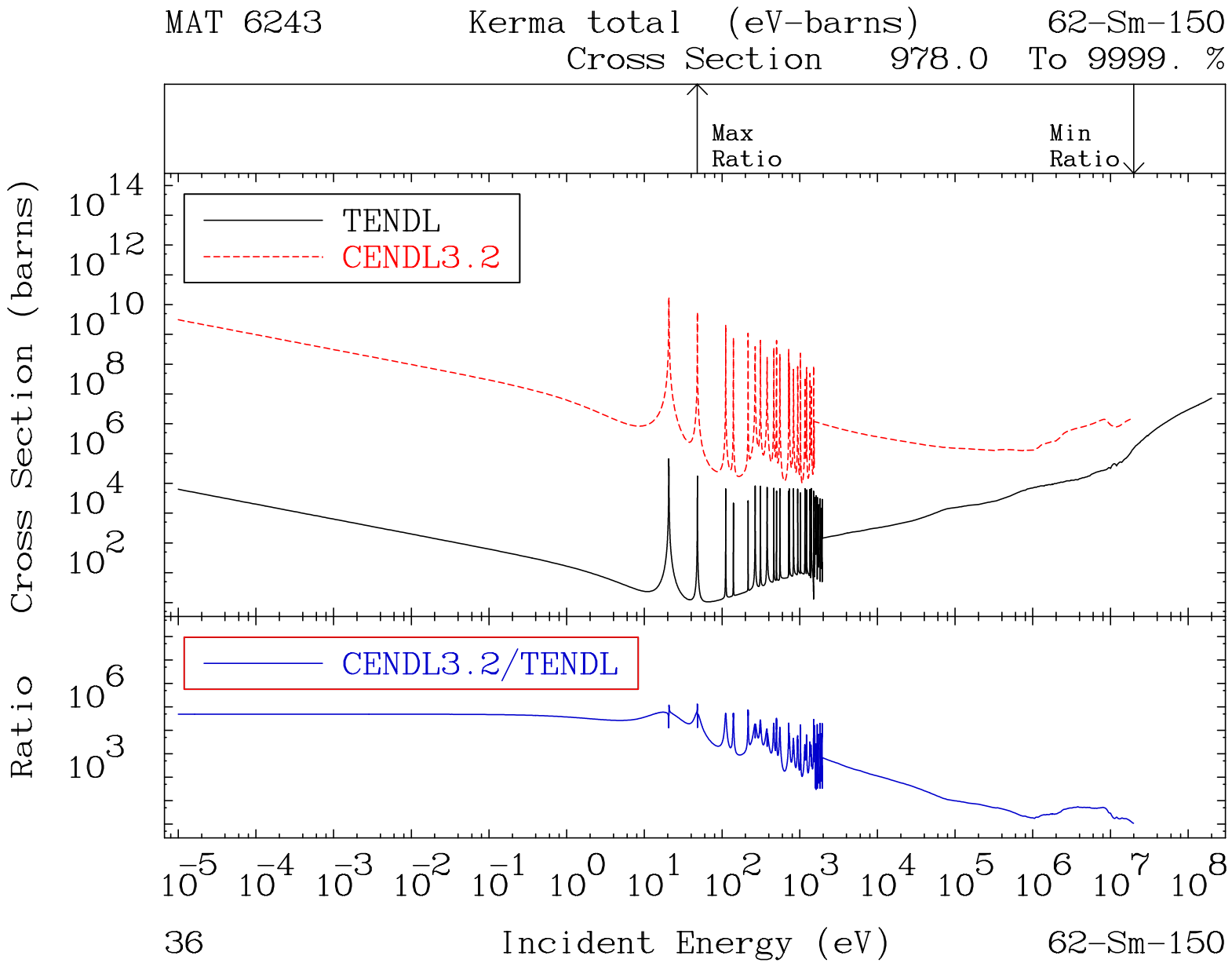

MAT 6243
(n,α)
Cross Section
62-Sm-150
-100.0 To 5284. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
RatioCross Section (milli-barns)
0
2
4
6
8
10
12
80
40
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
31
Incident Energy (eV)
62-Sm-150

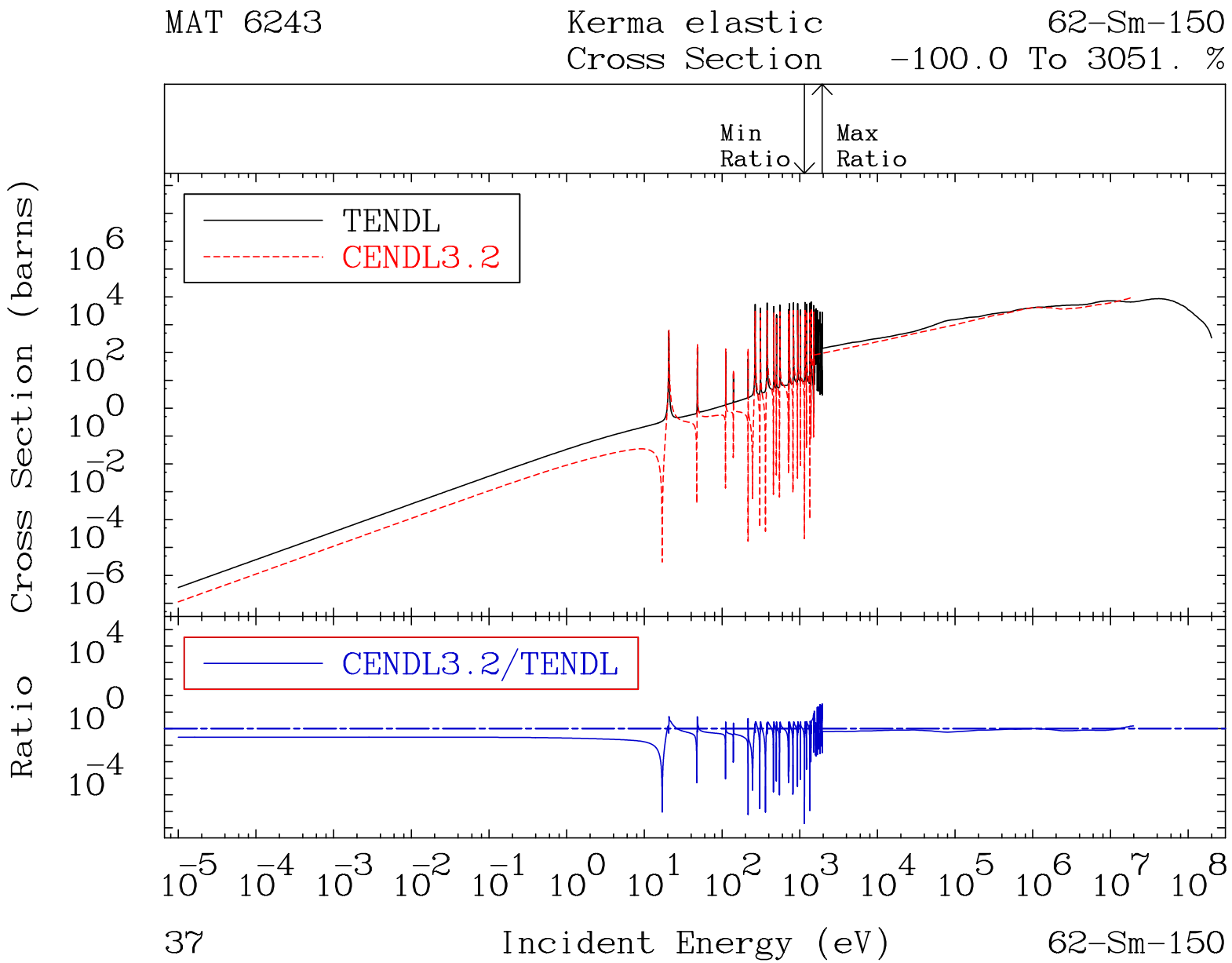

MAT 6243
Hydrogen Production
62-Sm-150
Cross Section
-100.0 To 657.7 %
Min Ratio
Max Ratio
TENDL Threshold 2.0340 MeV
CENDL3.2 Threshold 6.5000 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
CENDL3.2/TENDL
Ratio
8
4
0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
32
Incident Energy (eV)
62-Sm-150

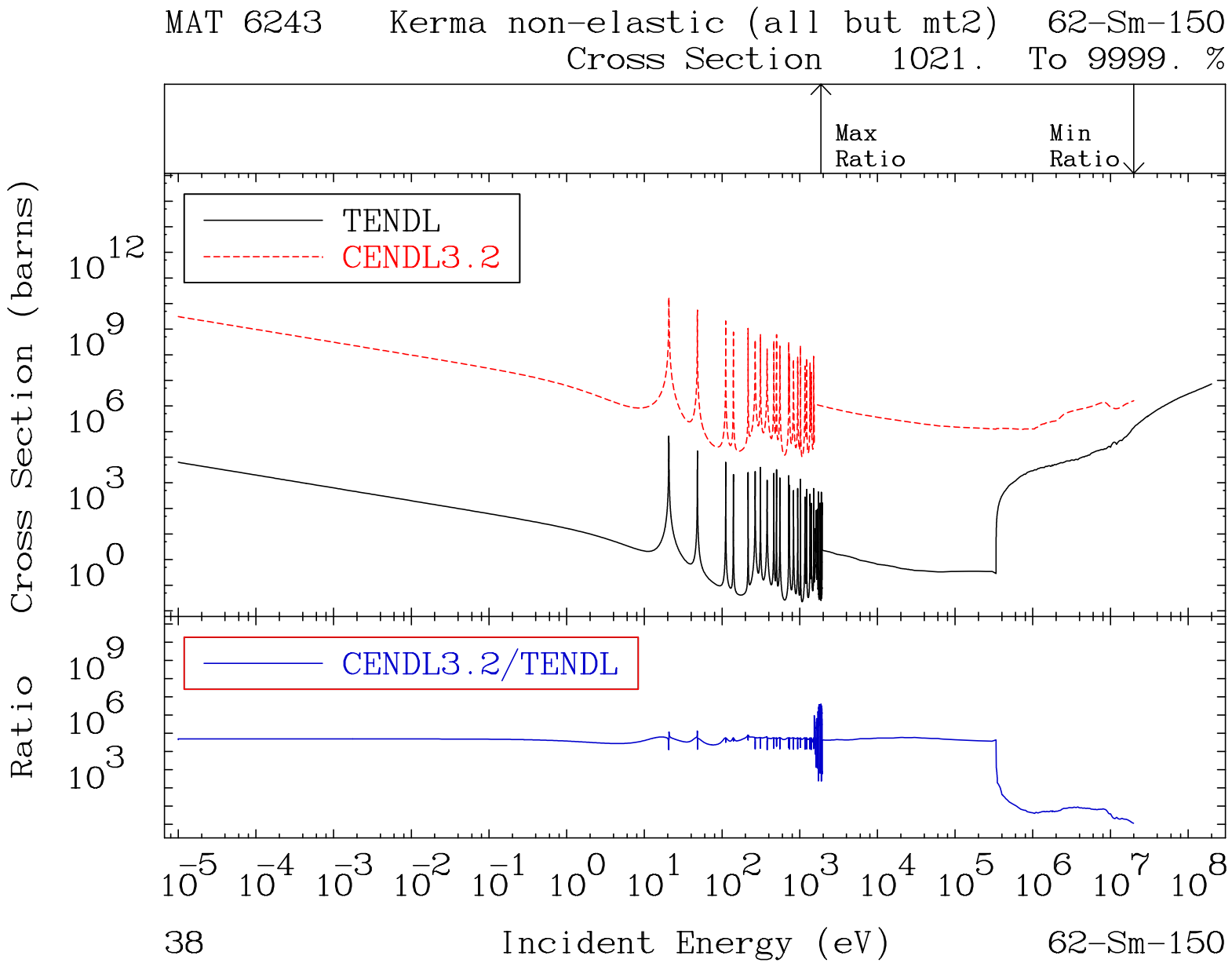

MAT 6243
Deuterium Production
62-Sm-150
Cross Section -100.0 To 719.7 %
Min Ratio
Max Ratio
TENDL Threshold 4.9477 MeV
CENDL3.2 Threshold 10.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
12
8
4
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
33
Incident Energy (eV)
62-Sm-150

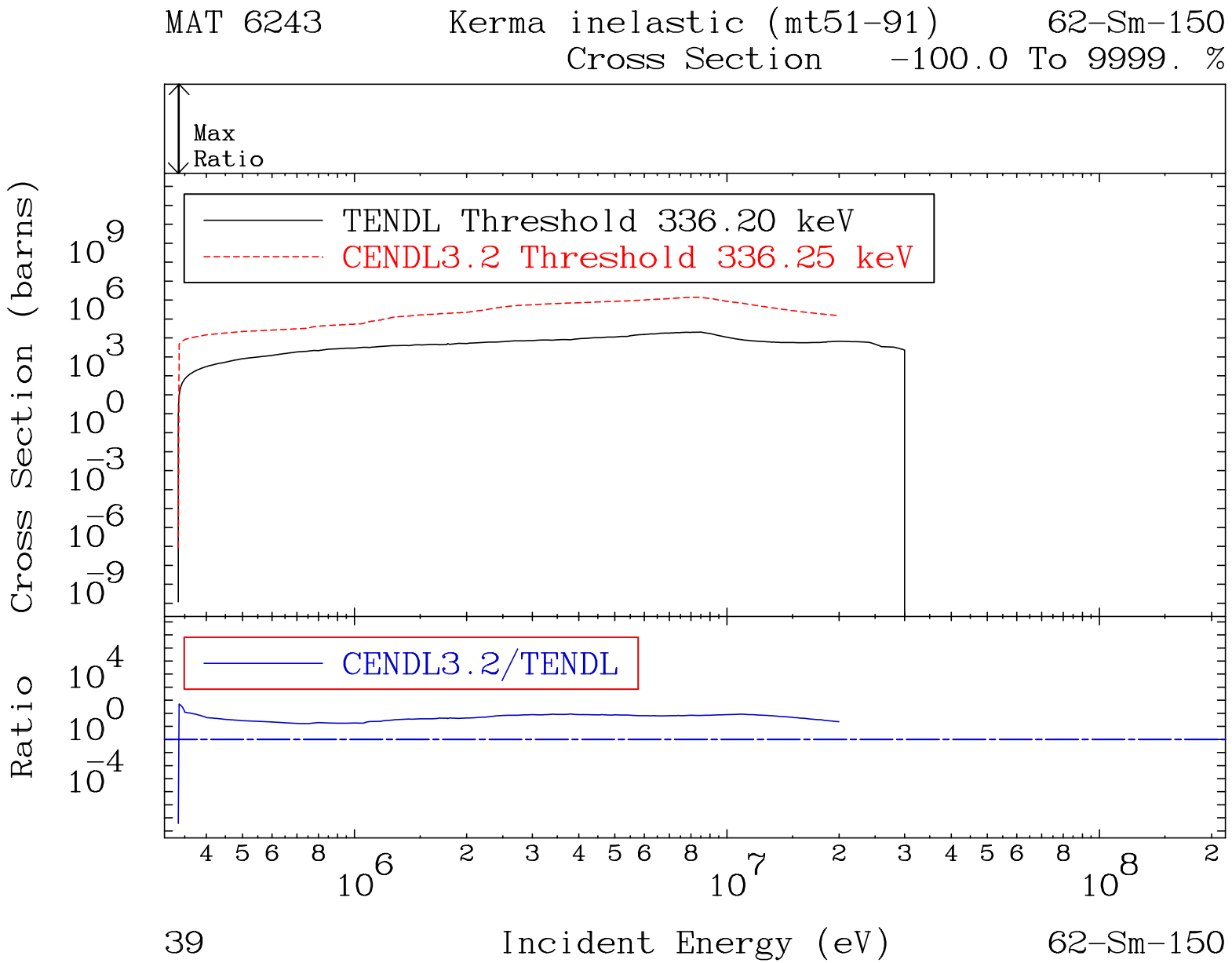

MAT 6243
Tritium Production
Cross Section
62-Sm-150
-100.0 To 36.58 %
Min Ratio
Max Ratio
TENDL Threshold 7.1115 MeV
CENDL3.2 Threshold 13.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.0
1.0
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
34
Incident Energy (eV)
62-Sm-150

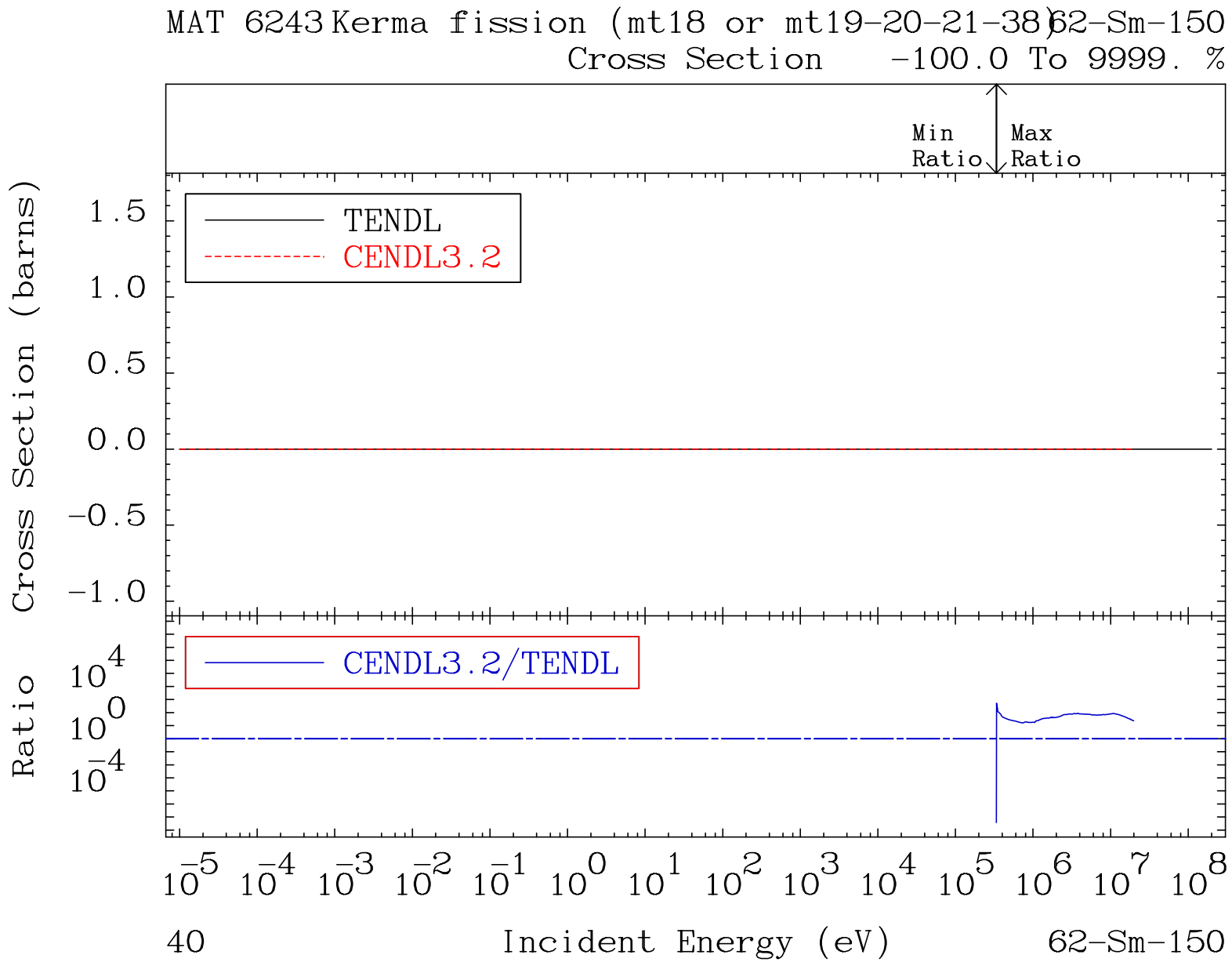

MAT 6243
He-4 Production
Cross Section
62-Sm-150
-100.0 To 5434. %
Min
Ratio
Max
Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
80
40
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
35
Incident Energy (eV)
62-Sm-150

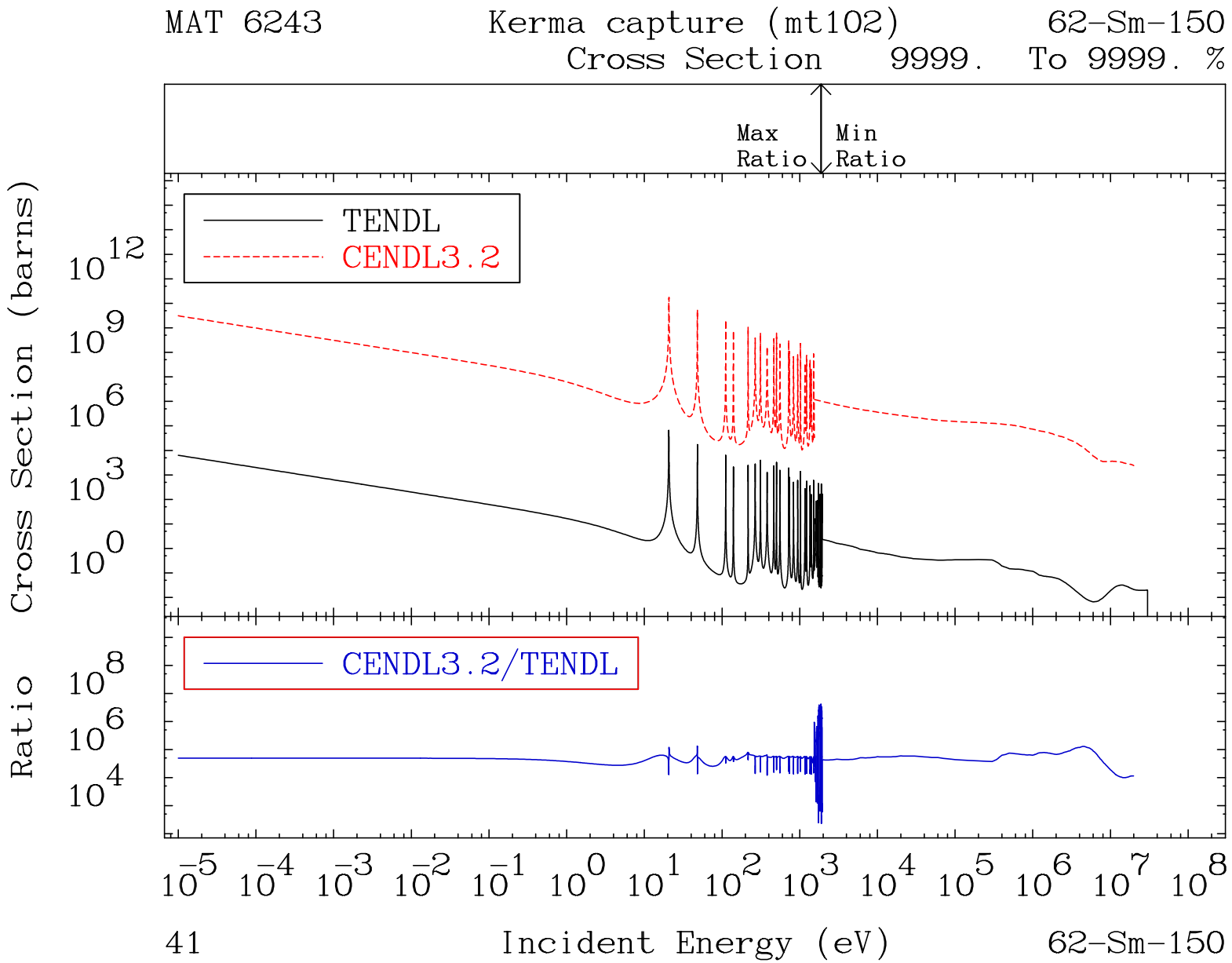

MAT 6243
Kerma total (eV-barns)
62-Sm-150
Cross Section 978.0 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
36
62-Sm-150

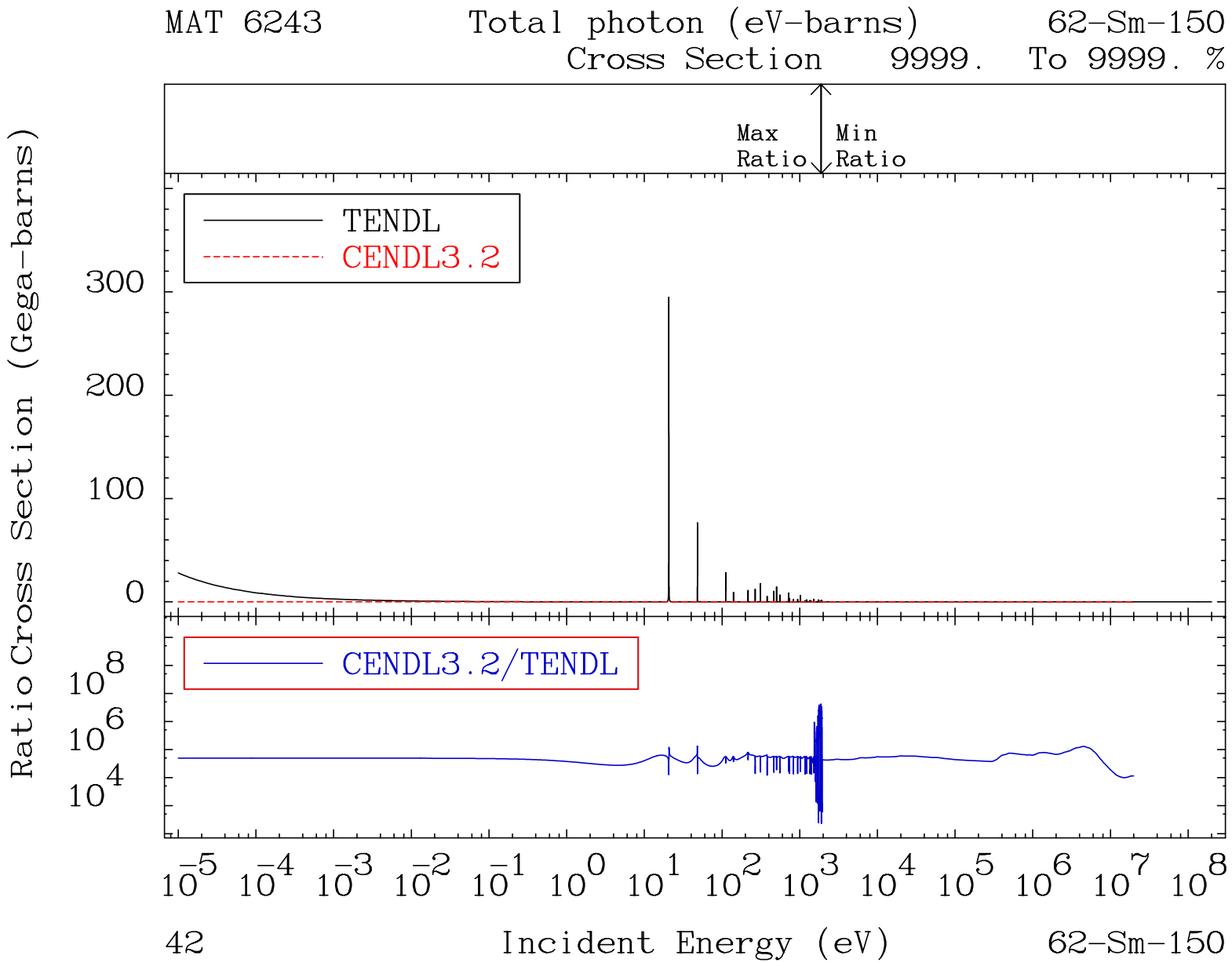

MAT 6243
Kerma elastic
Cross Section
62-Sm-150
-100.0 To 3051. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
37
62-Sm-150

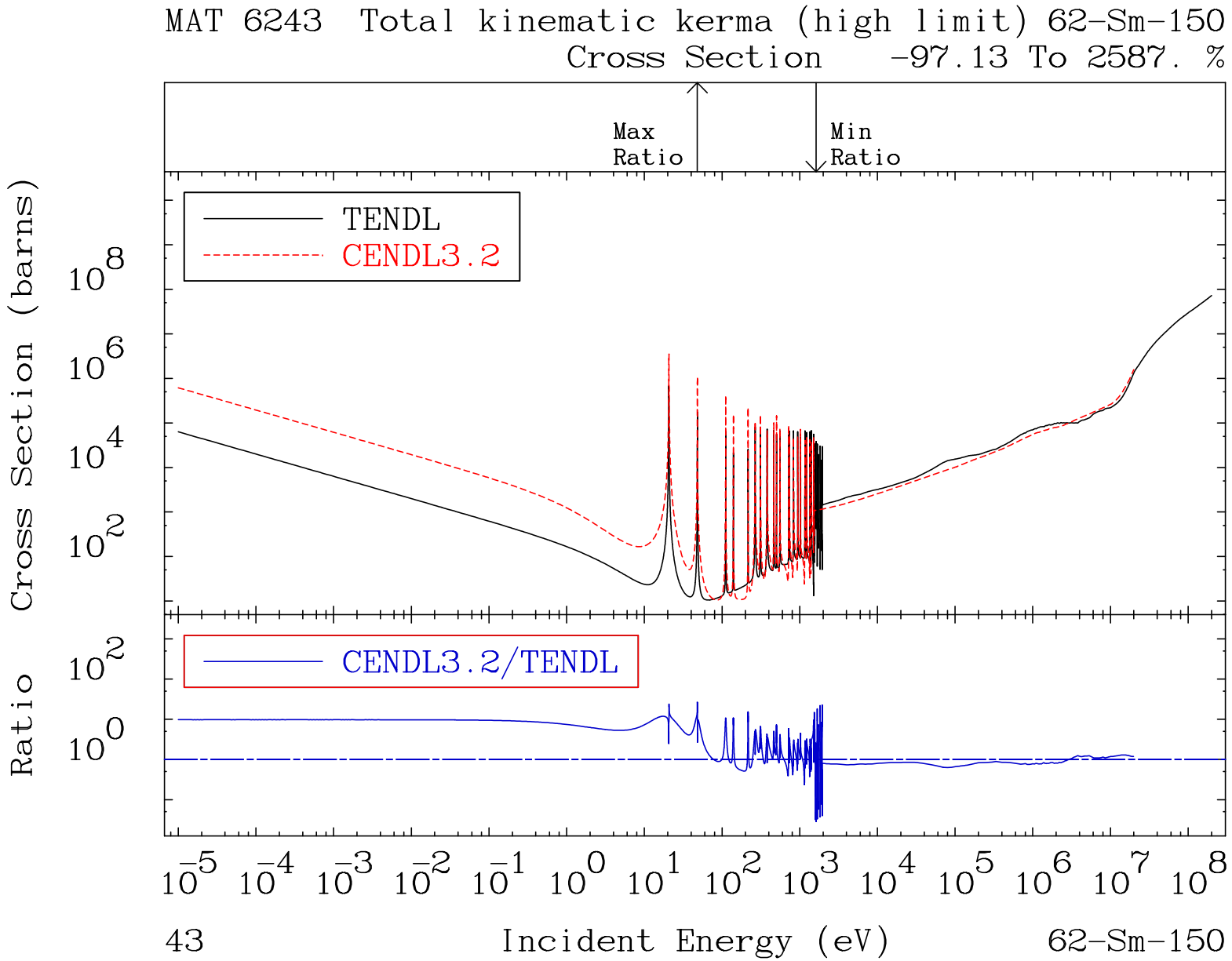

MAT 6243 Kerma non-elastic (all but mt2) 62-Sm-150
Cross Section 1021. To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
38
62-Sm-150

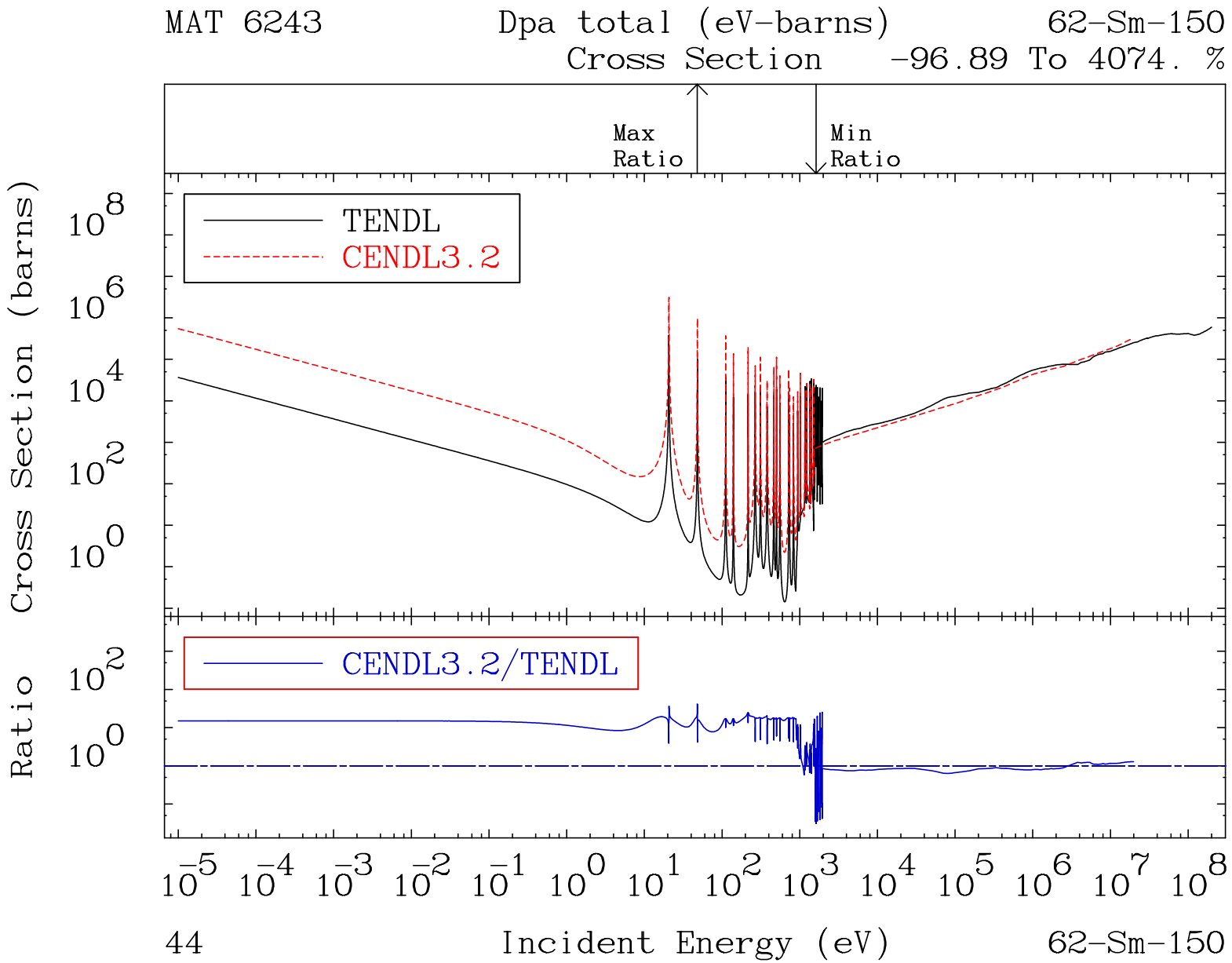

MAT 6243
Kerma inelastic (mt51-91)
62-Sm-150
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 336.20 keV
CENDL3.2 Threshold 336.25 keV
Cross Section (barns)
10^9
10^6
10^3
10^0
10^-3
10^-6
10^-9
CENDL3.2/TENDL
Ratio
10^4
10^0
10^-4
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
39
Incident Energy (eV)
62-Sm-150

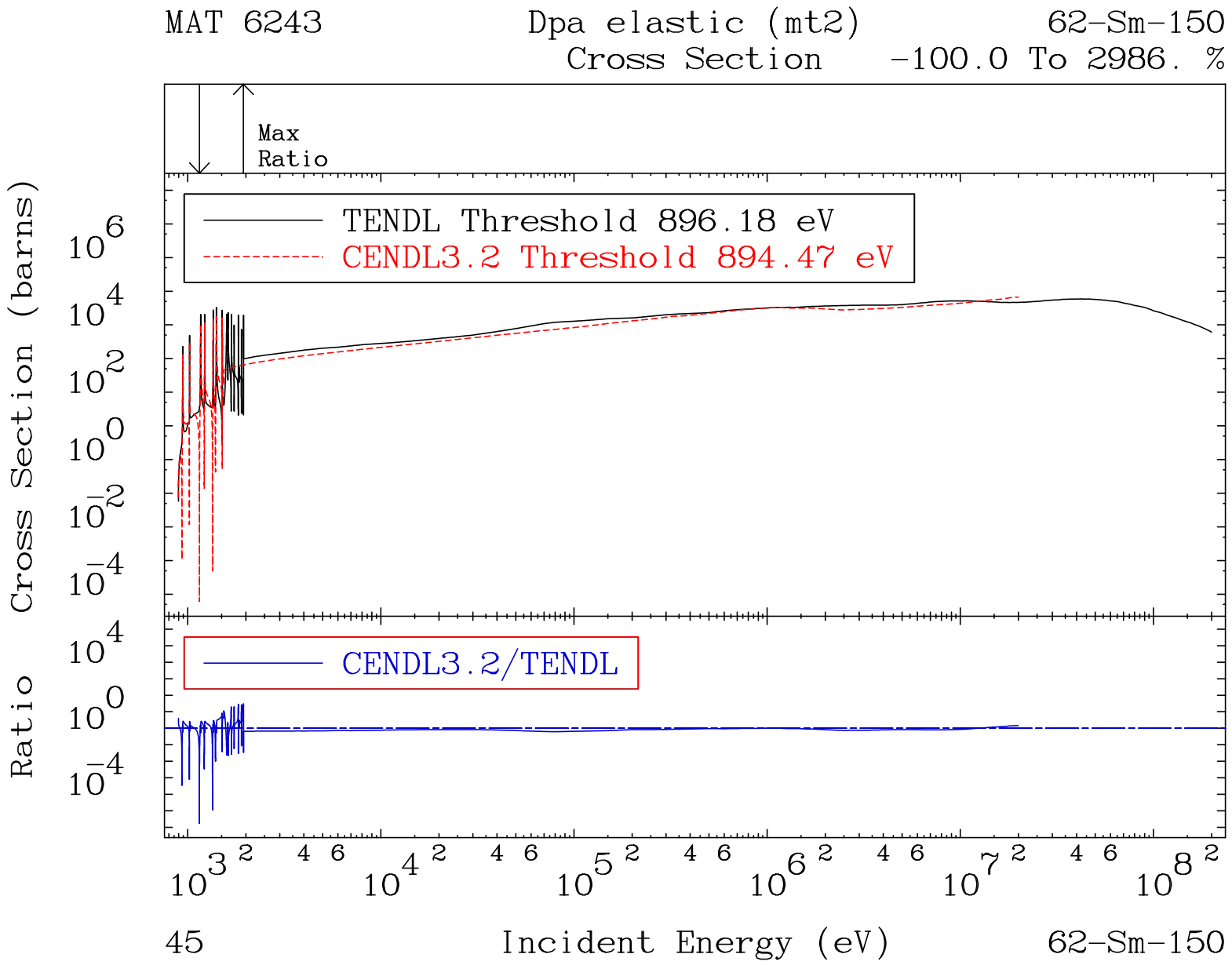

MAT 6243 Kerma fission (mt18 or mt19-20-21-38) 62-Sm-150
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{4}
10^{0}
10^{-4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
40
Incident Energy (eV)
62-Sm-150

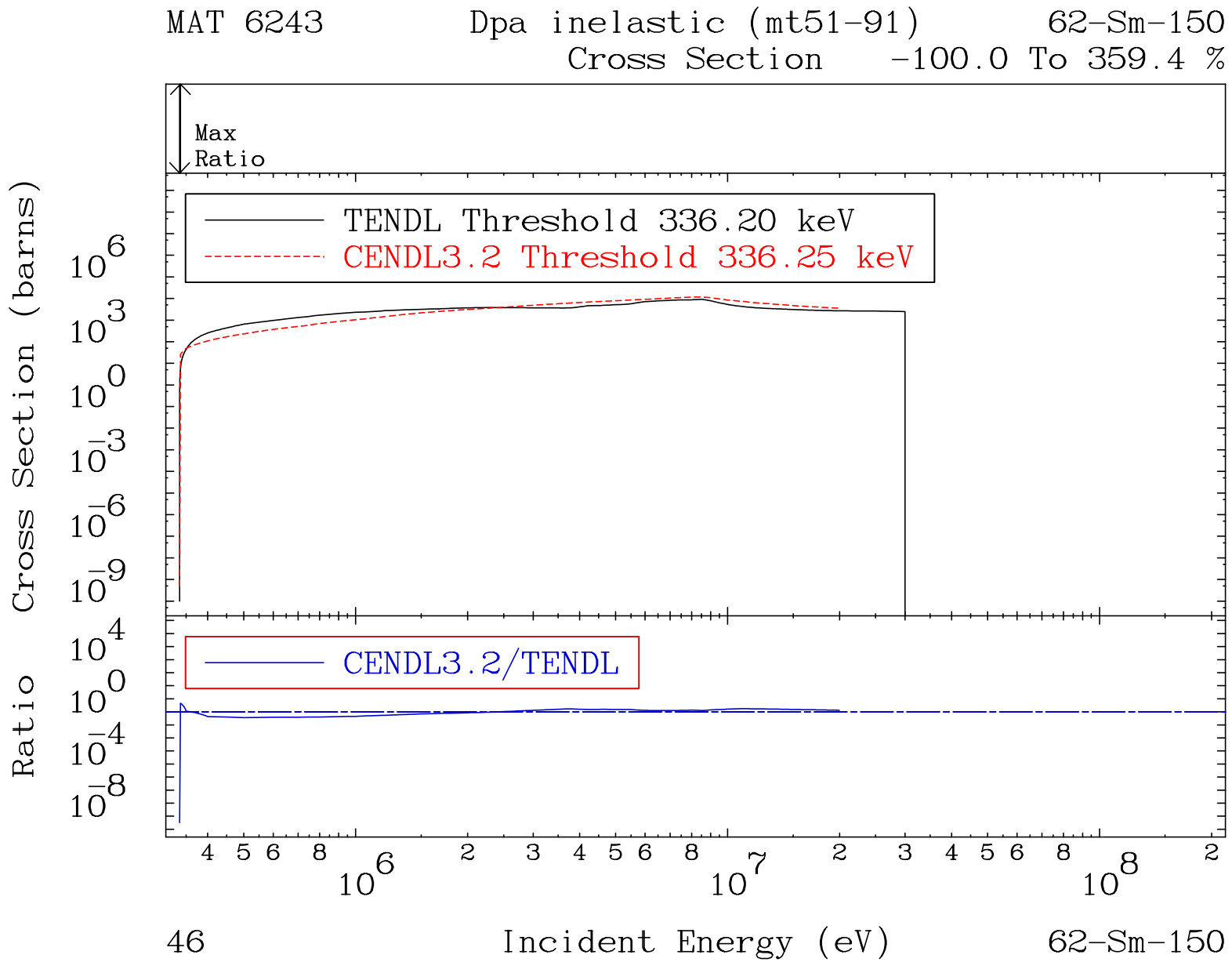

MAT 6243
Kerma capture (mt102)
62-Sm-150
Cross Section 9999. To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
10^{12}
10^{9}
10^{6}
10^{3}
10^{0}
CENDL3.2/TENDL
Ratio
10^{8}
10^{6}
10^{4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
41
Incident Energy (eV)
62-Sm-150

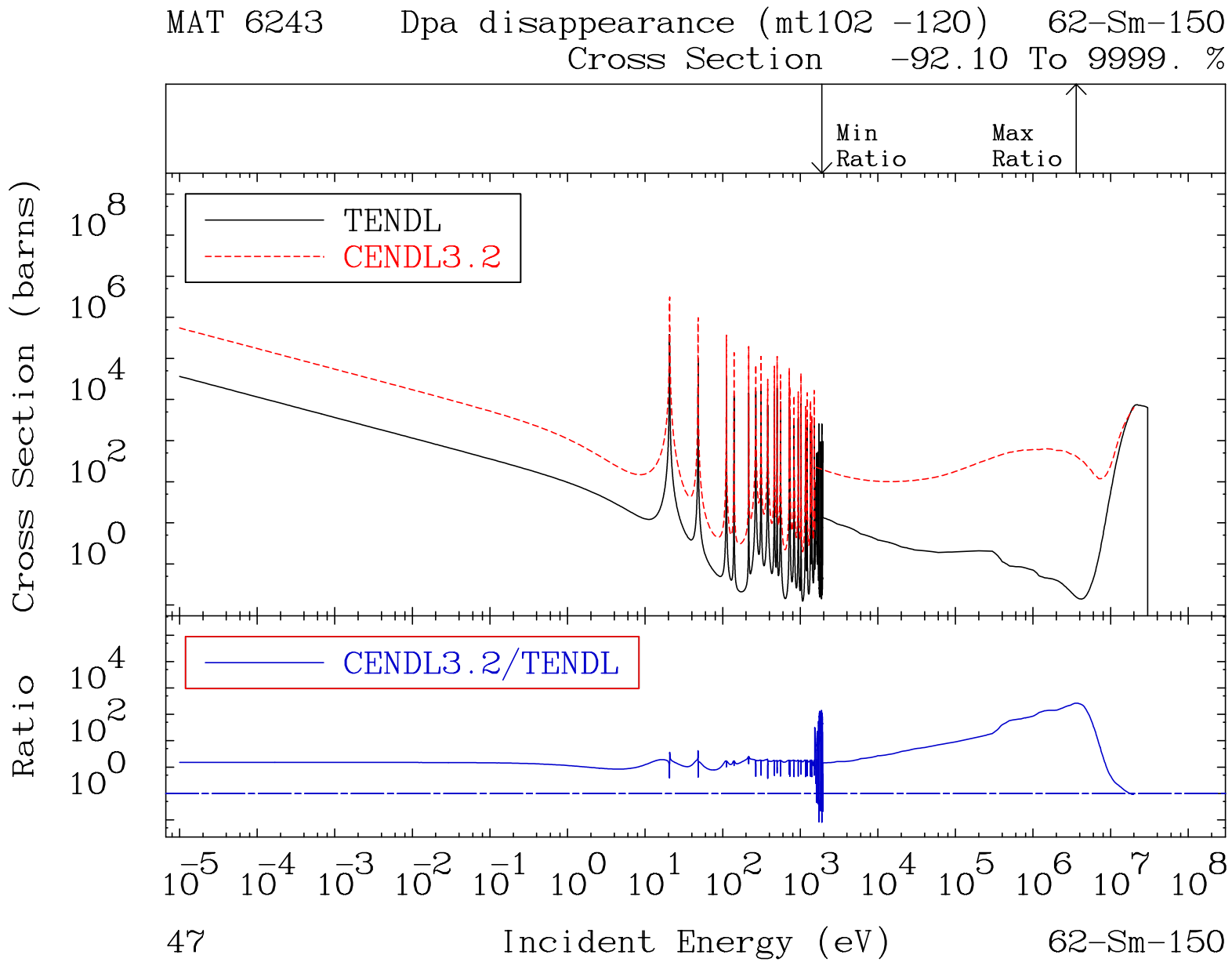

MAT 6243
Total photon (eV-barns)
62-Sm-150
Cross Section 9999. To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Ratio Cross Section (Giga-barns)
300
200
100
0
10^{8}
10^{6}
10^{4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
42
Incident Energy (eV)
62-Sm-150

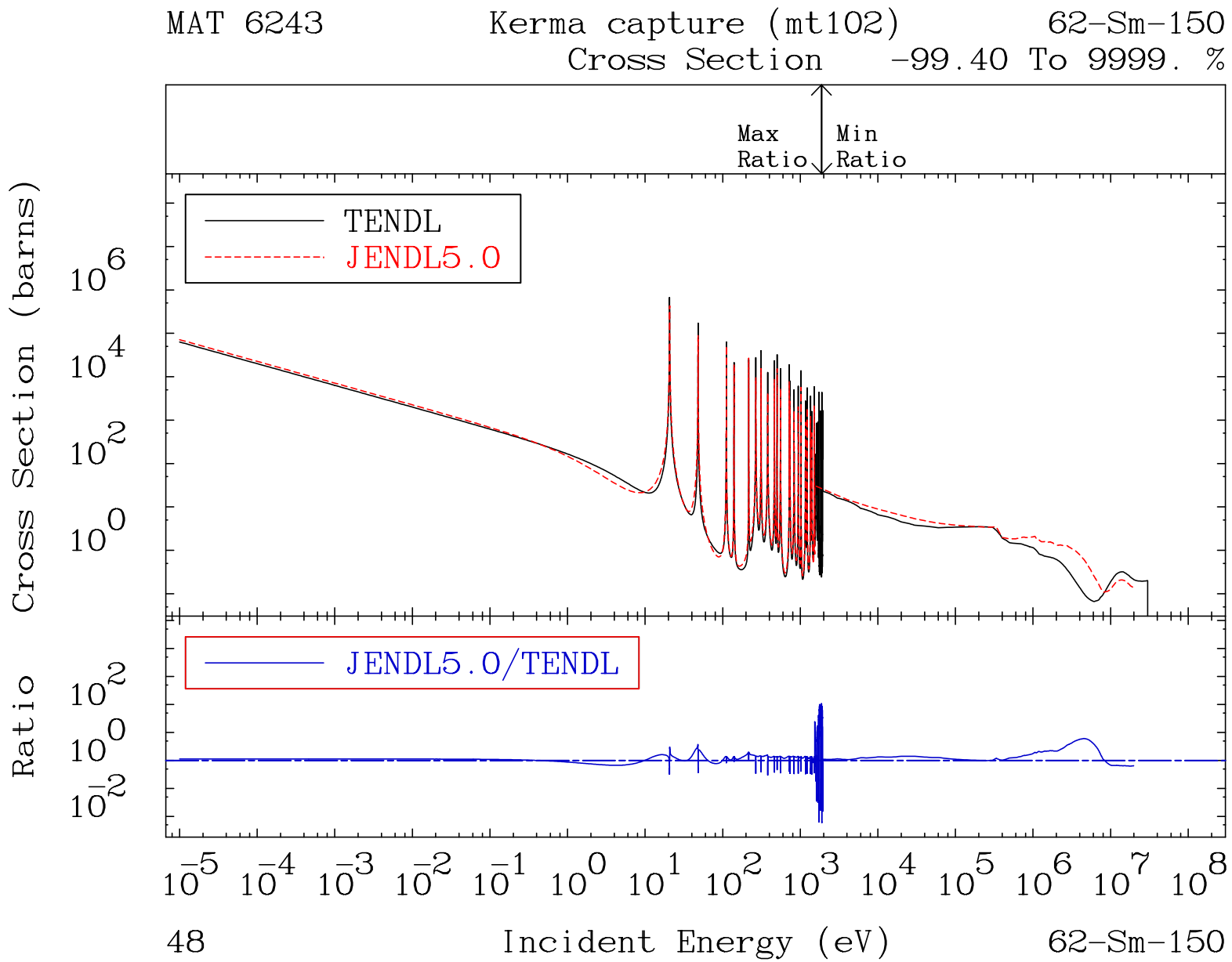

MAT 6243 Total kinematic kerma (high limit) 62-Sm-150
Cross Section -97.13 To 2587. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
10^8
10^6
10^4
10^2
CENDL3.2/TENDL
Ratio
10^2
10^0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
43
Incident Energy (eV)
62-Sm-150

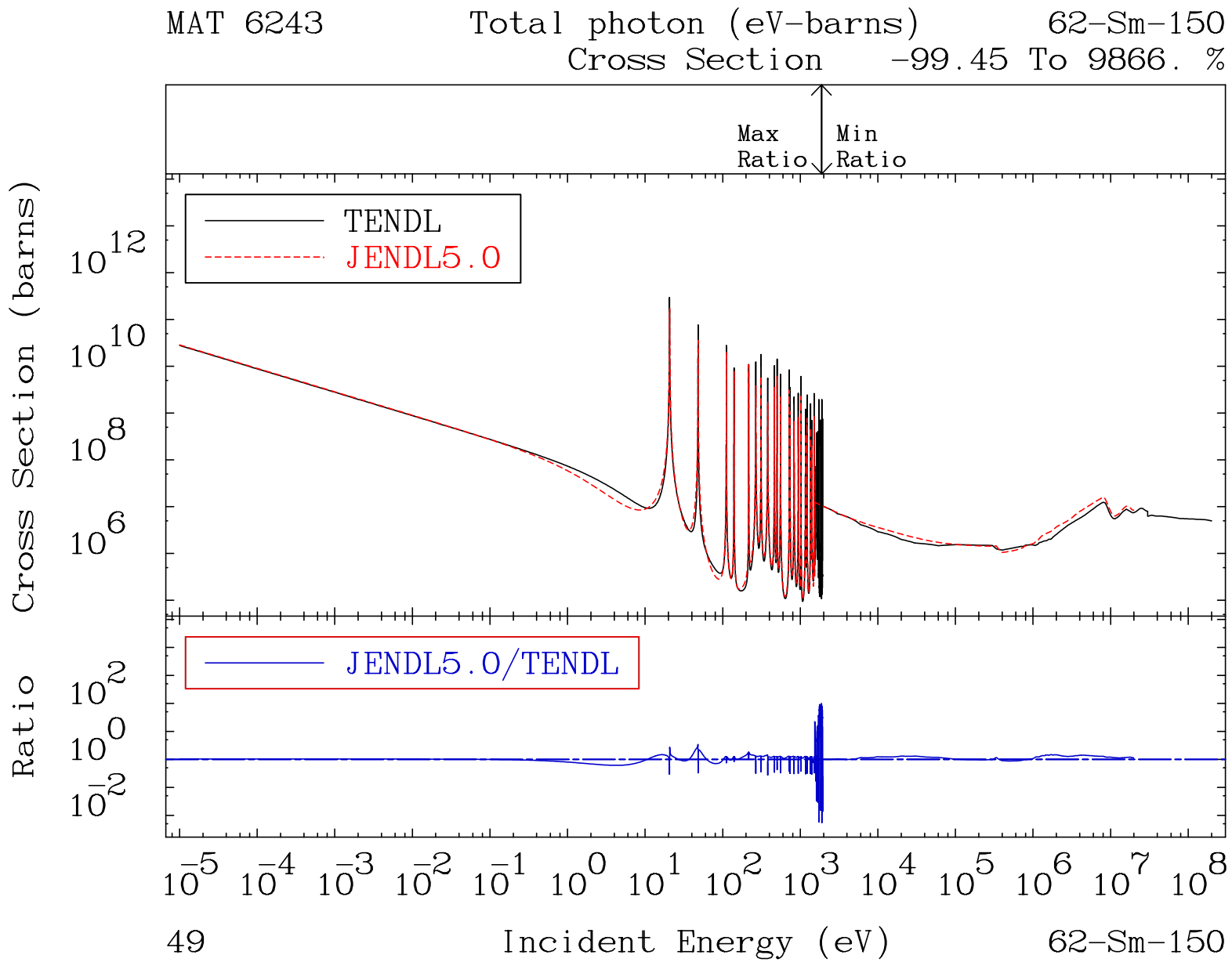

MAT 6243
Dpa total (eV-barns)
62-Sm-150
Cross Section -96.89 To 4074. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
44
62-Sm-150

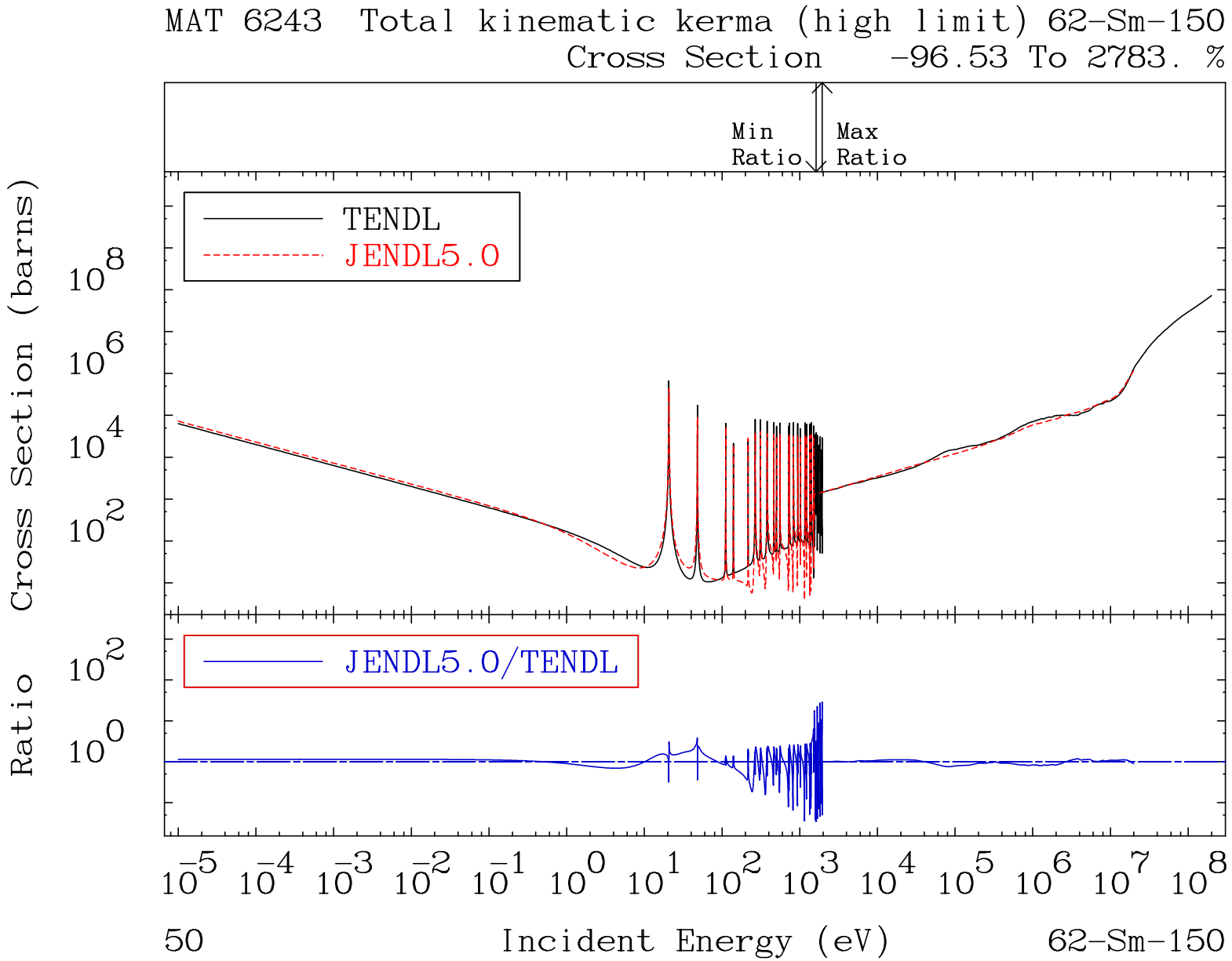

MAT 6243
Dpa elastic (mt2)
Cross Section
62-Sm-150
-100.0 To 2986. %
Max
Ratio
TENDL Threshold 896.18 eV
CENDL3.2 Threshold 894.47 eV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
45
62-Sm-150

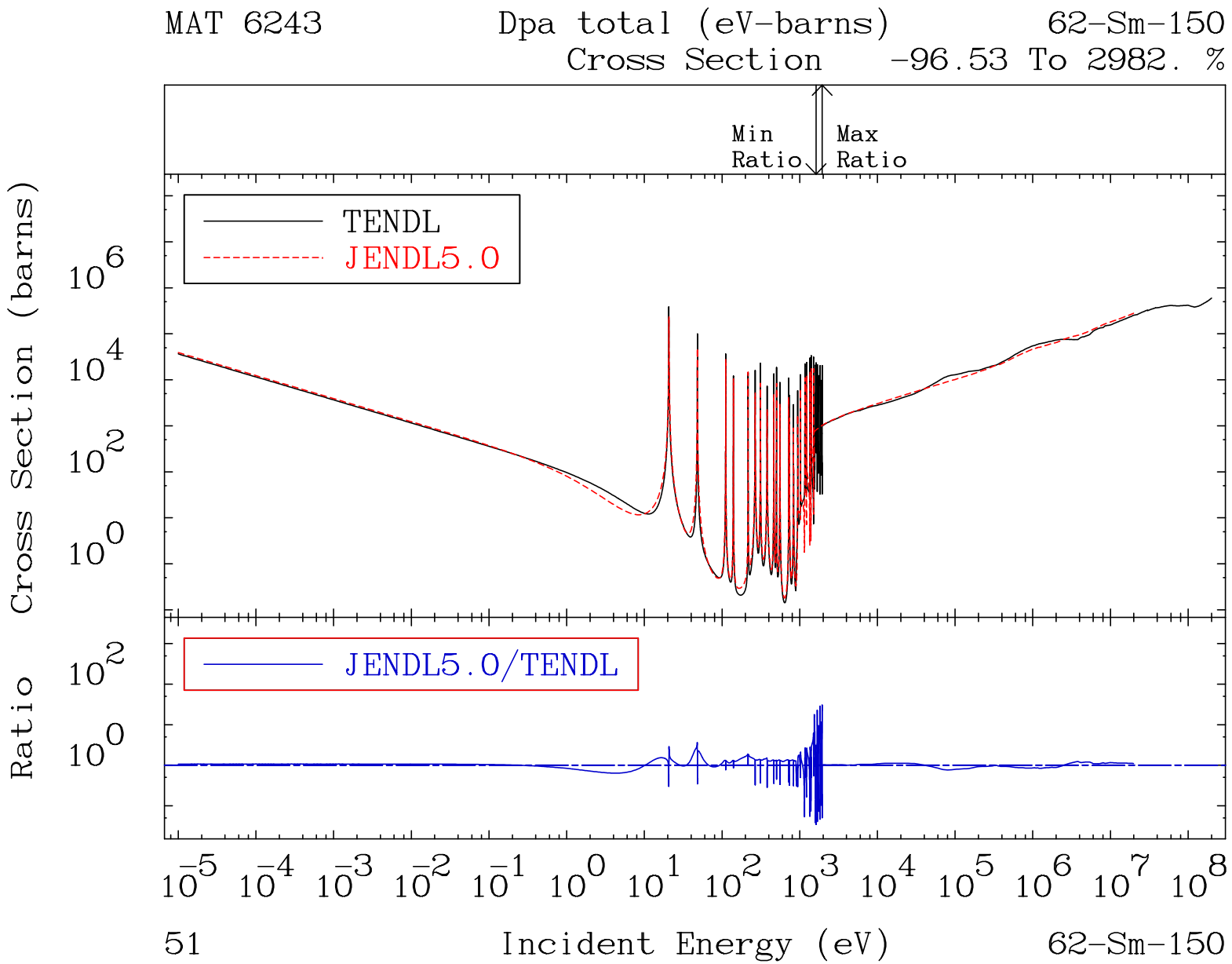

MAT 6243
Dpa inelastic (mt51-91)
62-Sm-150
Cross Section -100.0 To 359.4 %
Max
Ratio
TENDL Threshold 336.20 keV
CENDL3.2 Threshold 336.25 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
46
62-Sm-150

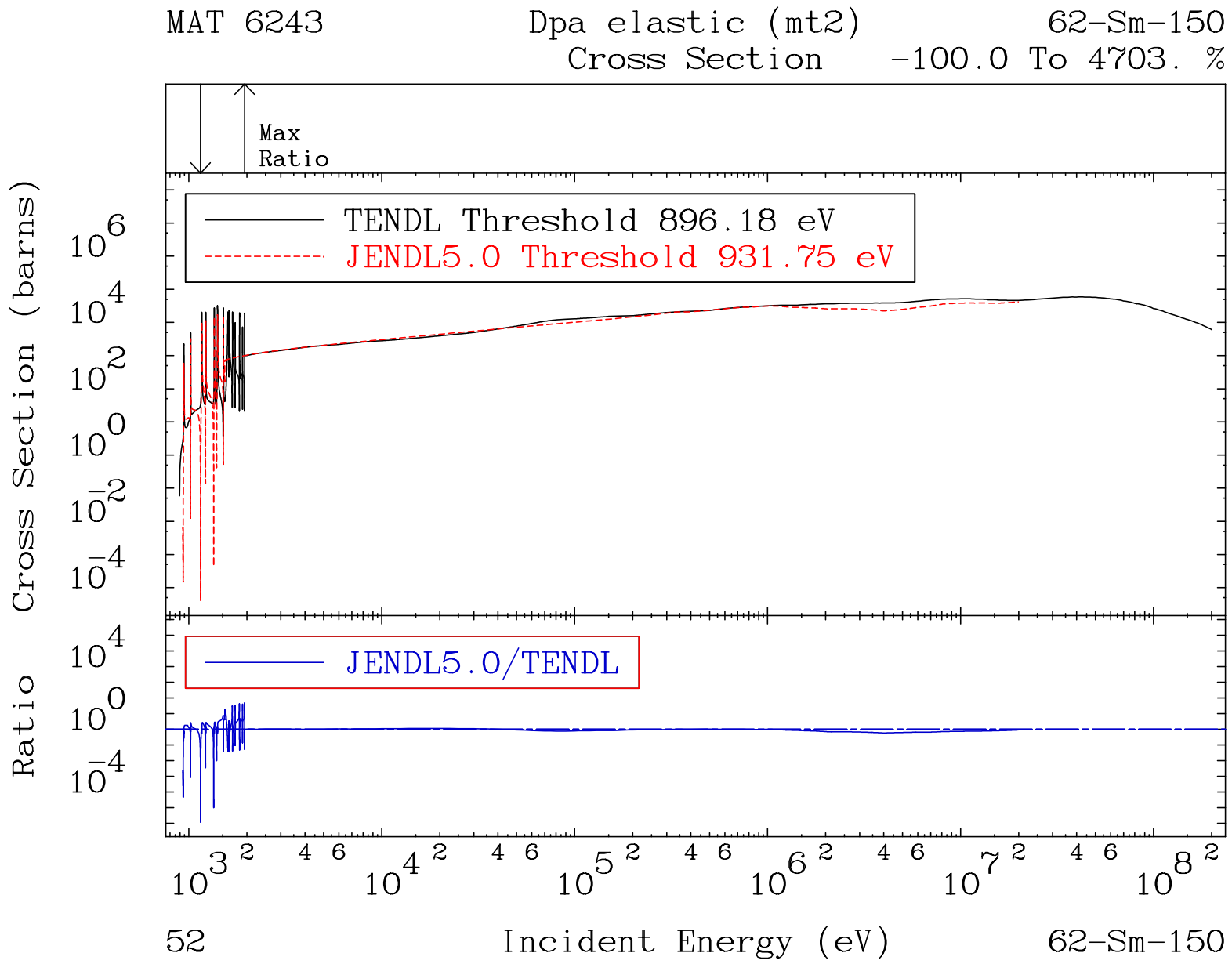

MAT 6243 Dpa disappearance (mt102 -120) 62-Sm-150
Cross Section -92.10 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
47
62-Sm-150

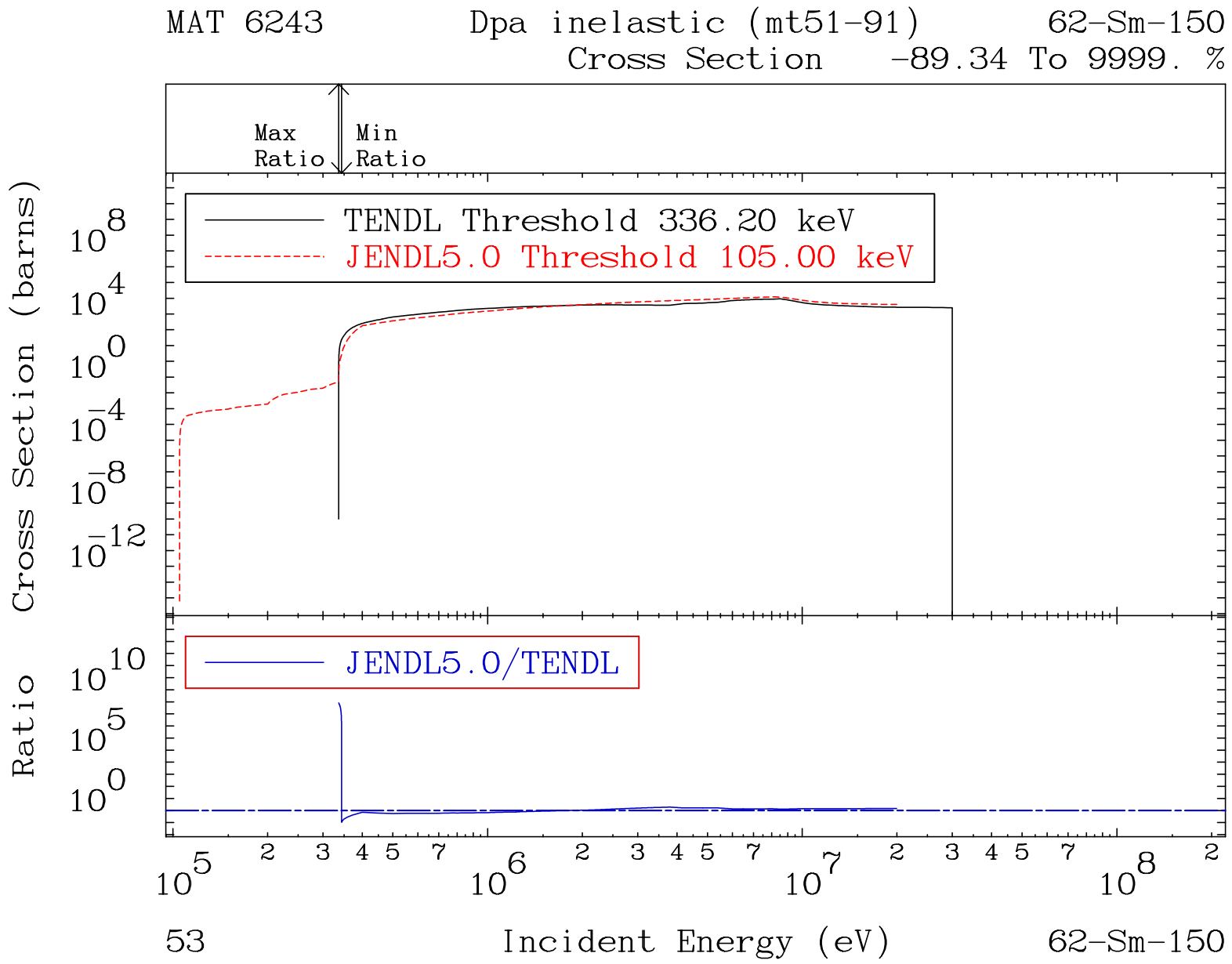

MAT 6243
Kerma capture (mt102)
62-Sm-150
Cross Section
-99.40 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
48
Incident Energy (eV)
62-Sm-150

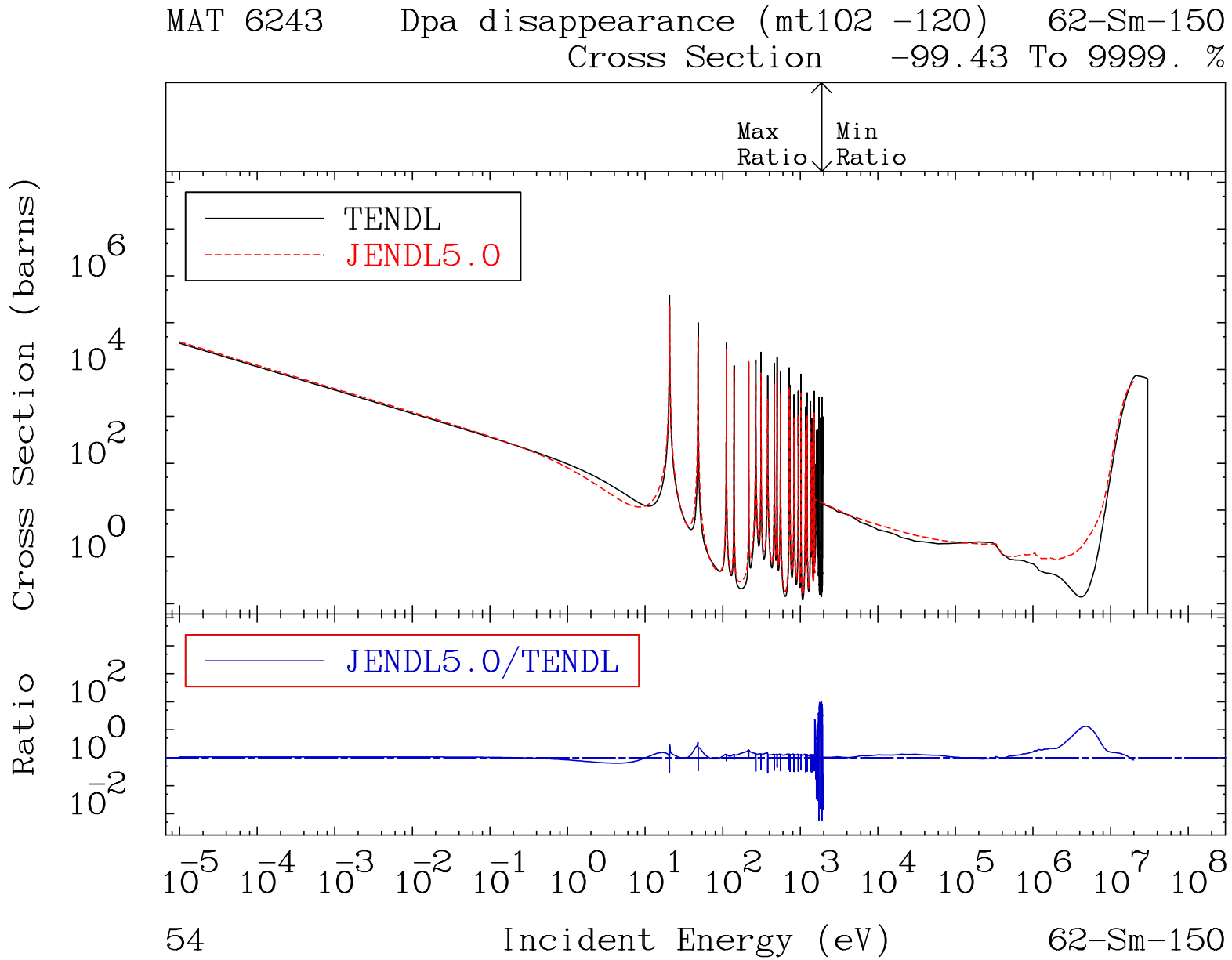

MAT 6243
Total photon (eV-barns)
62-Sm-150
Cross Section
-99.45 To 9866. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
49
62-Sm-150

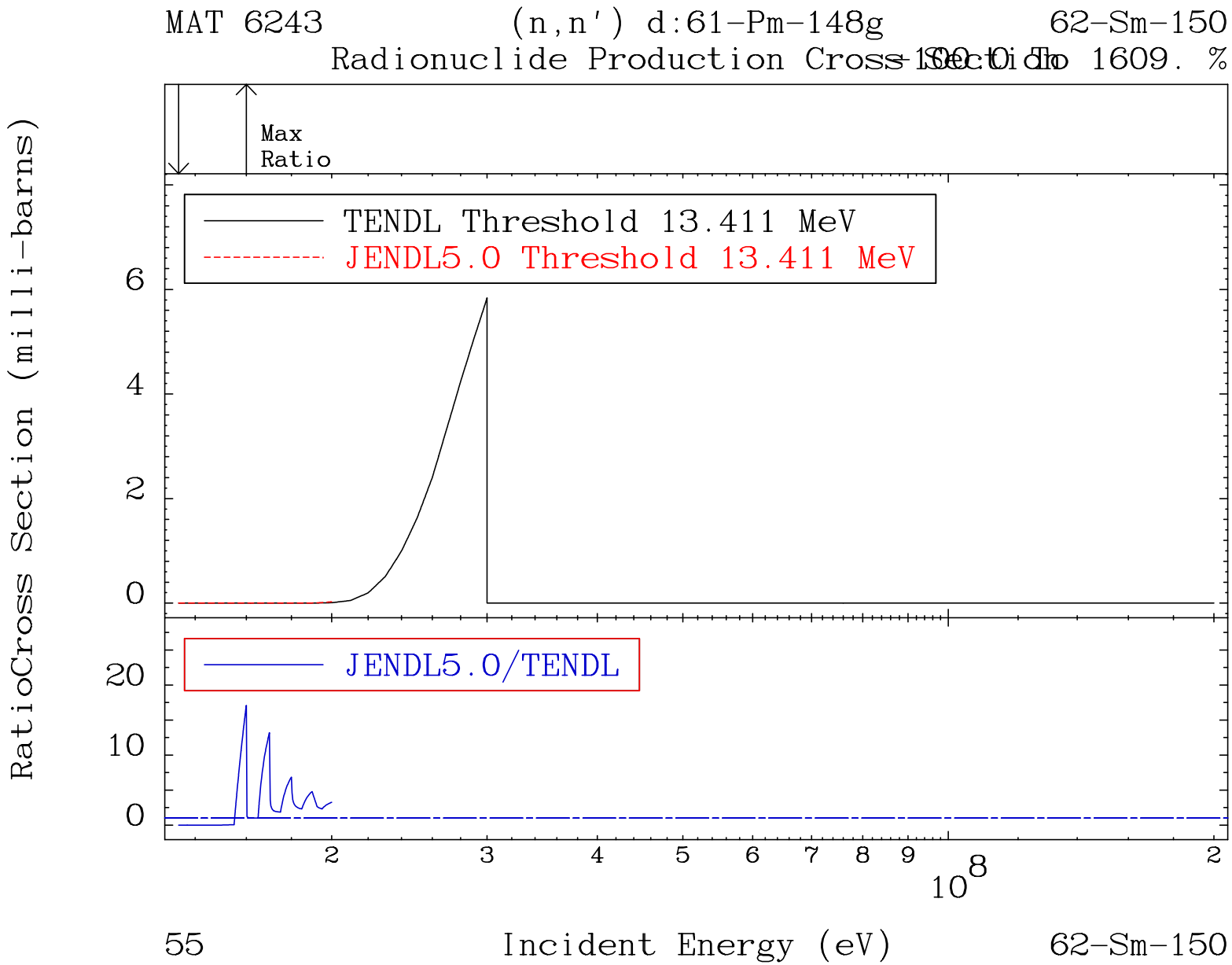

MAT 6243 Total kinematic kerma (high limit) 62-Sm-150
Cross Section -96.53 To 2783. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
50
62-Sm-150

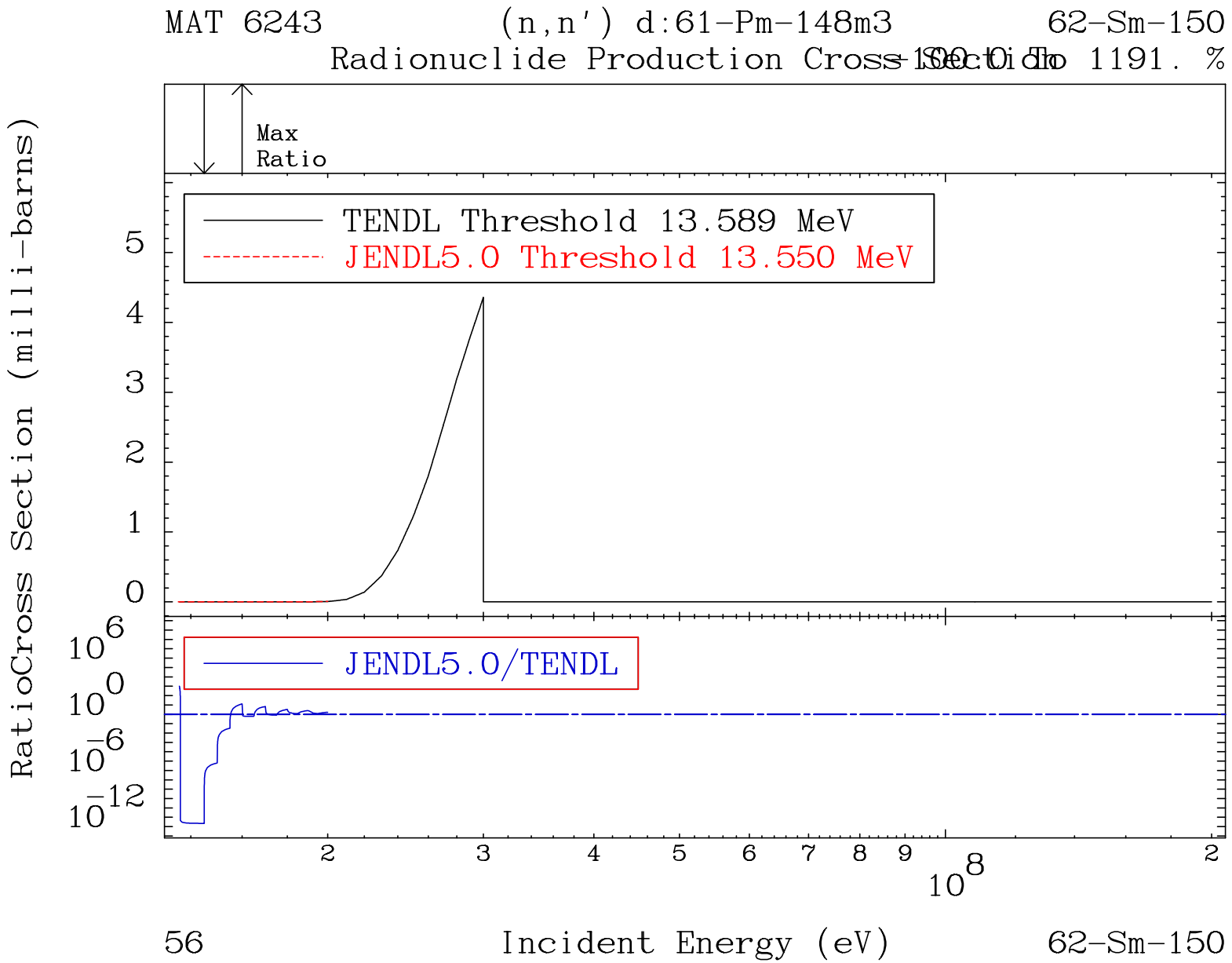

MAT 6243
Dpa total (eV-barns)
62-Sm-150
Cross Section
-96.53 To 2982. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
51
62-Sm-150

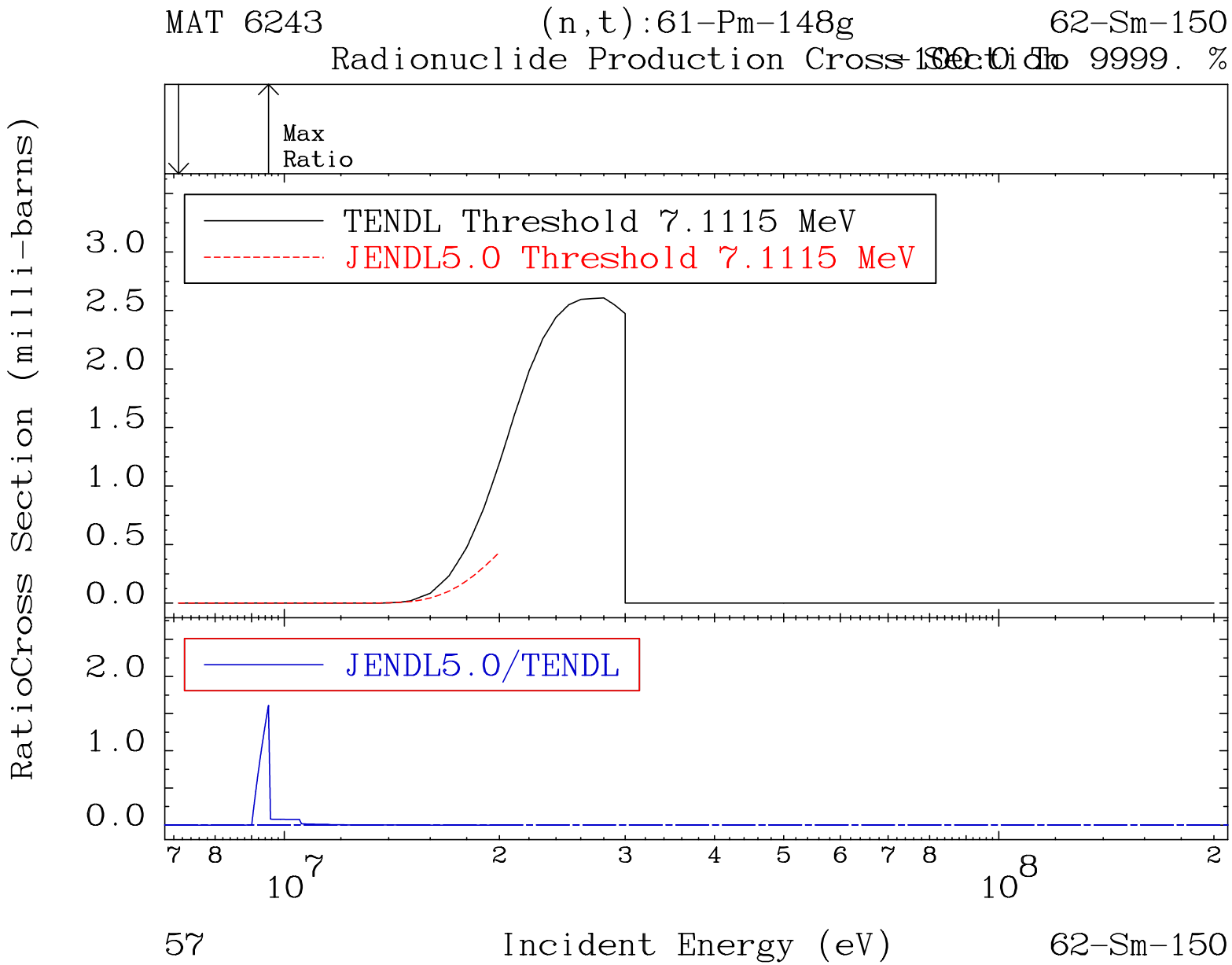

MAT 6243
Dpa elastic (mt2)
Cross Section
62-Sm-150
-100.0 To 4703. %
Max
Ratio
TENDL Threshold 896.18 eV
JENDL5.0 Threshold 931.75 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
52
62-Sm-150

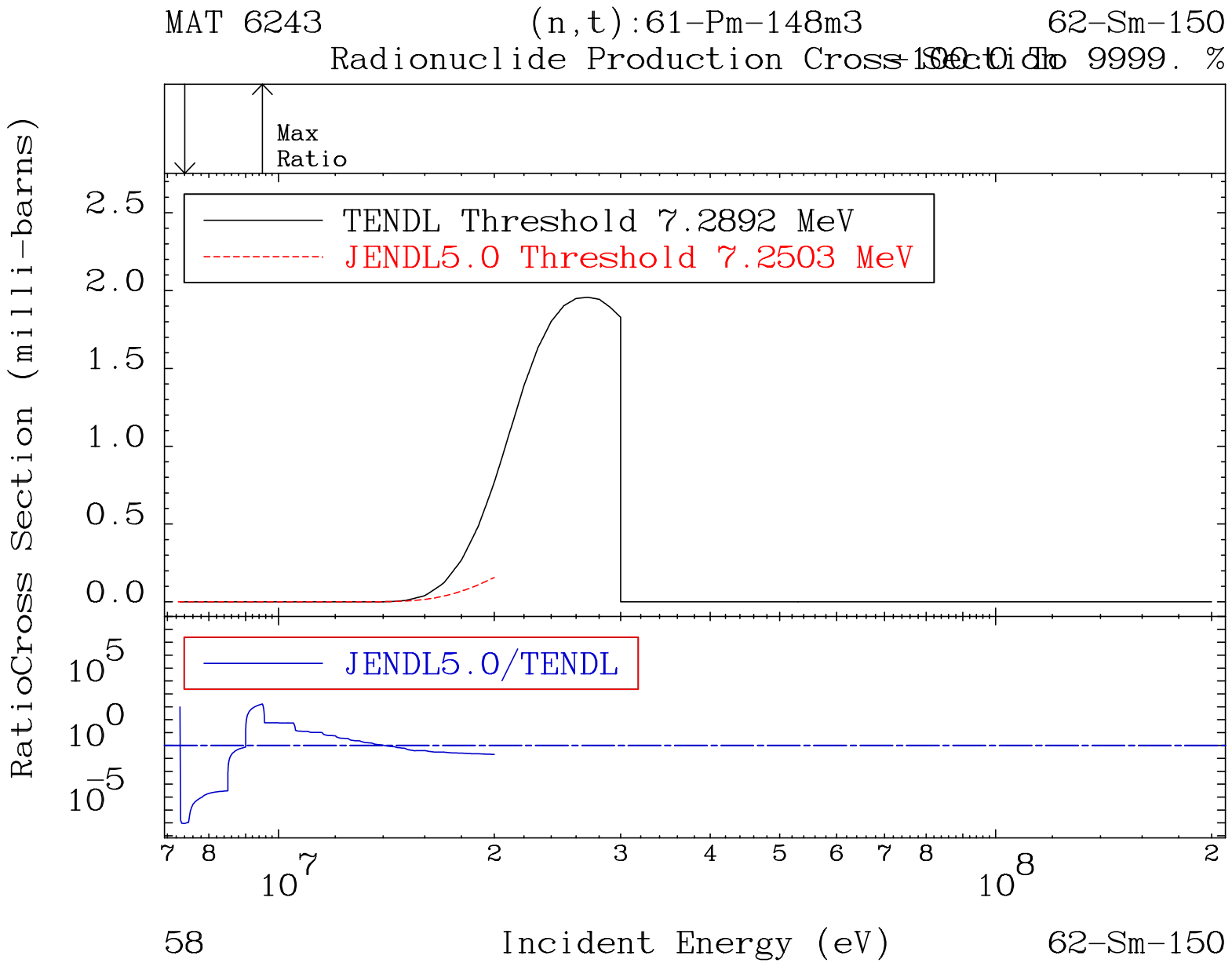

MAT 6243
Dpa inelastic (mt51-91)
62-Sm-150
Cross Section -89.34 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 336.20 keV
JENDL5.0 Threshold 105.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
53
62-Sm-150

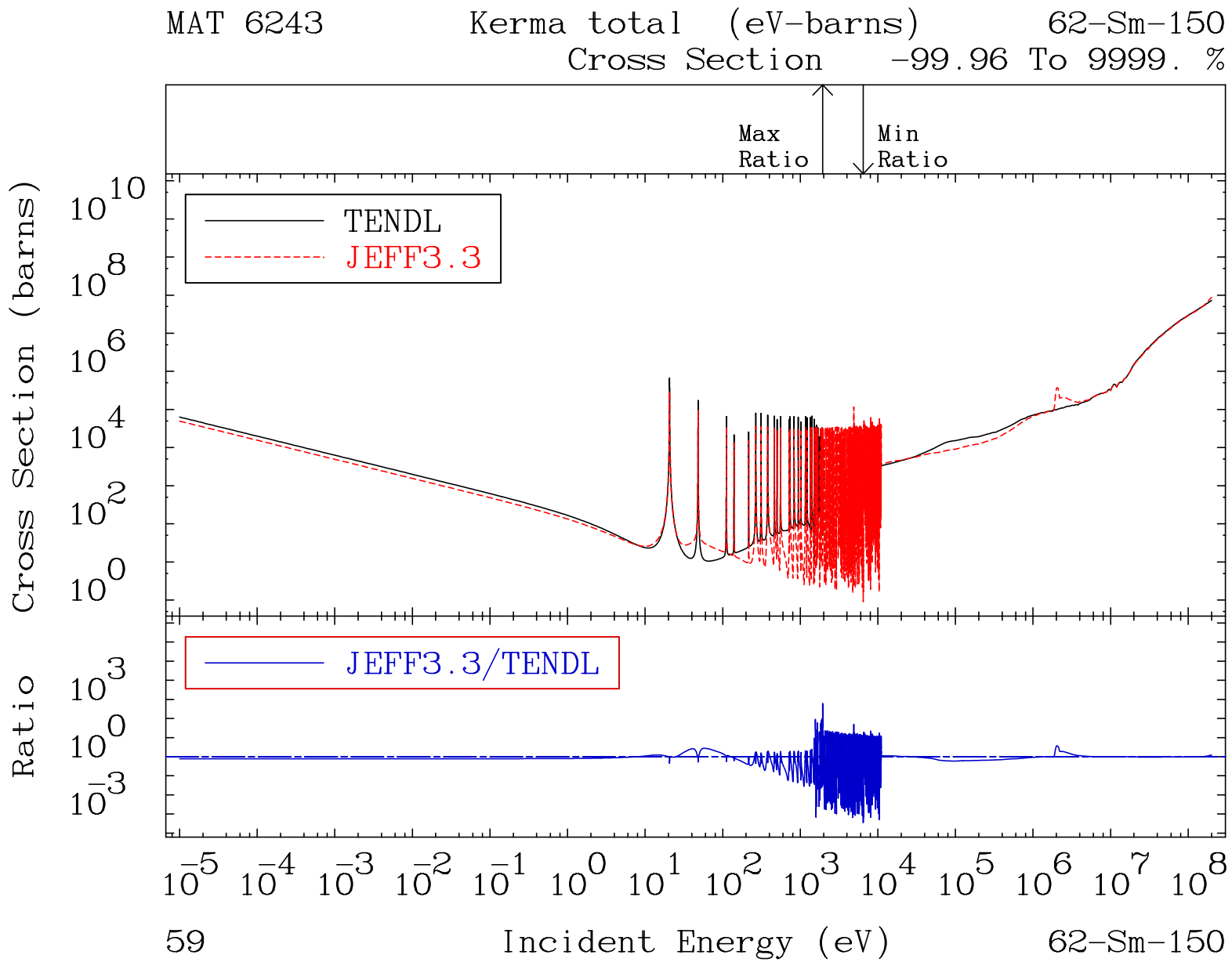

MAT 6243 Dpa disappearance (mt102 -120) 62-Sm-150
Cross Section -99.43 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
54
62-Sm-150

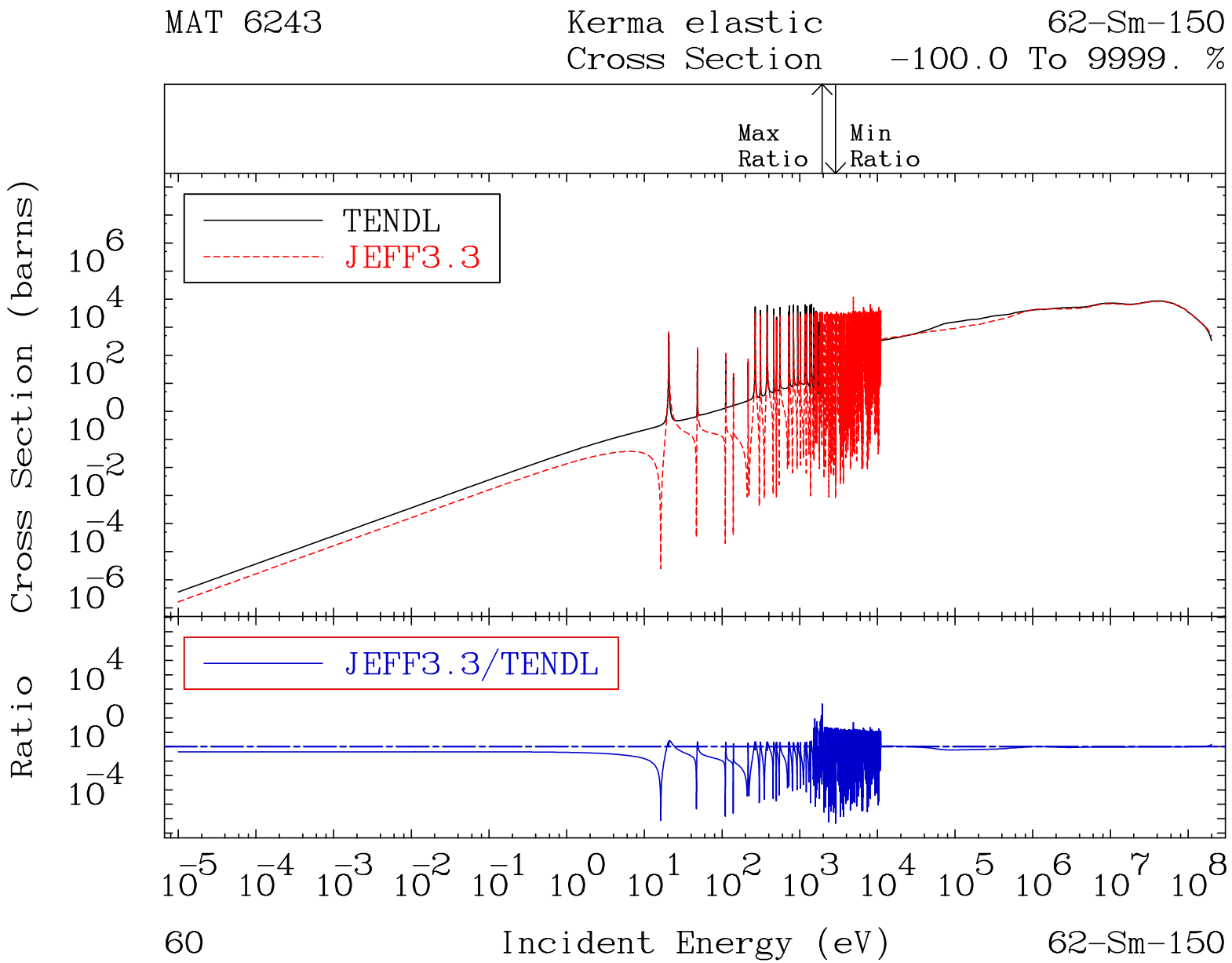

MAT 6243
(n,n') d:61-Pm-148g
62-Sm-150
Radionuclide Production Cross Section To 1609. %
Max
Ratio
TENDL Threshold 13.411 MeV
JENDL5.0 Threshold 13.411 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
0
2
4
6
0
10
20
2
3
4
5
6
7
8
9
10^8
2
55
Incident Energy (eV)
62-Sm-150

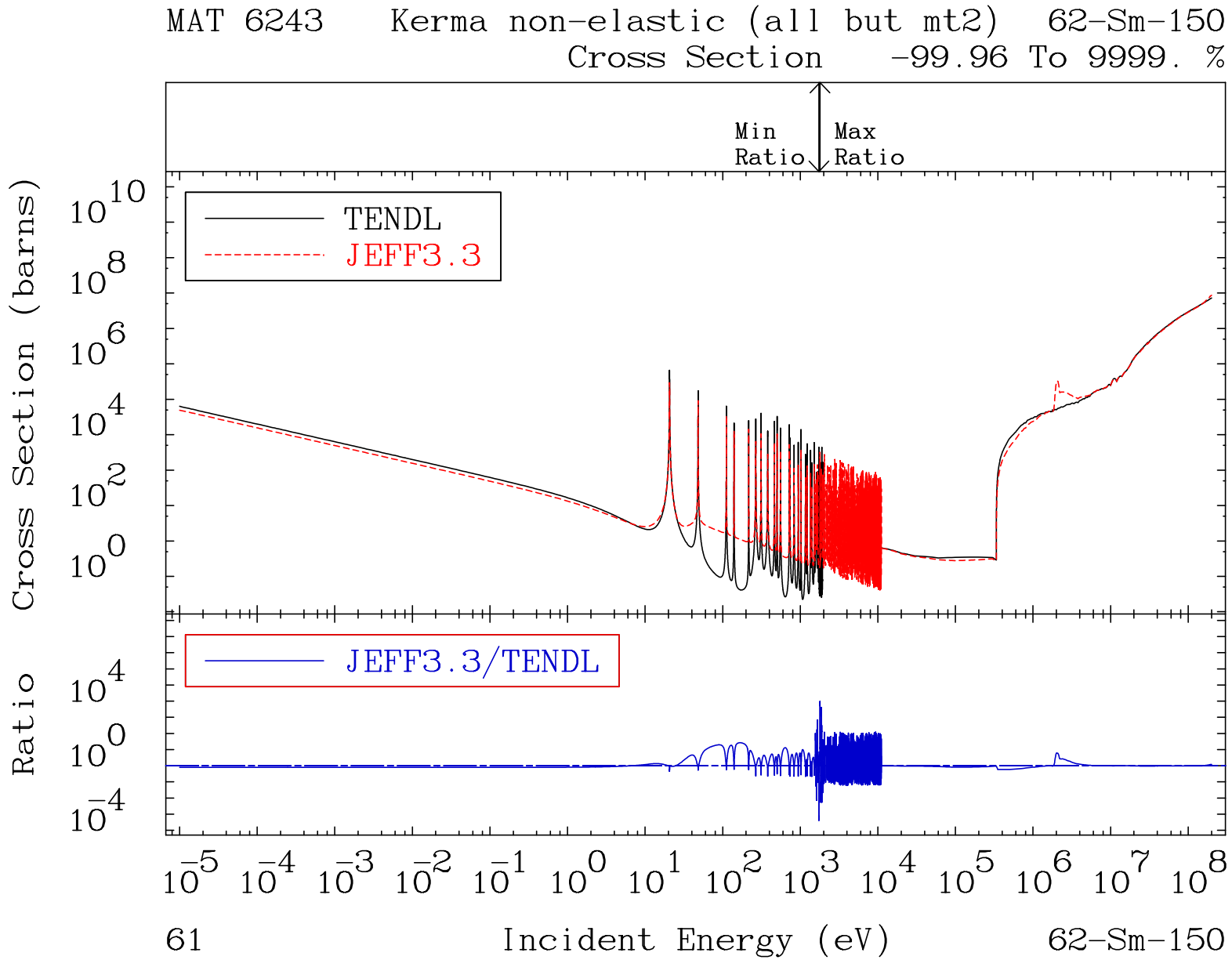

MAT 6243 (n,n') d:61-Pm-148m3 62-Sm-150
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 13.589 MeV
JENDL5.0 Threshold 13.550 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
56
62-Sm-150

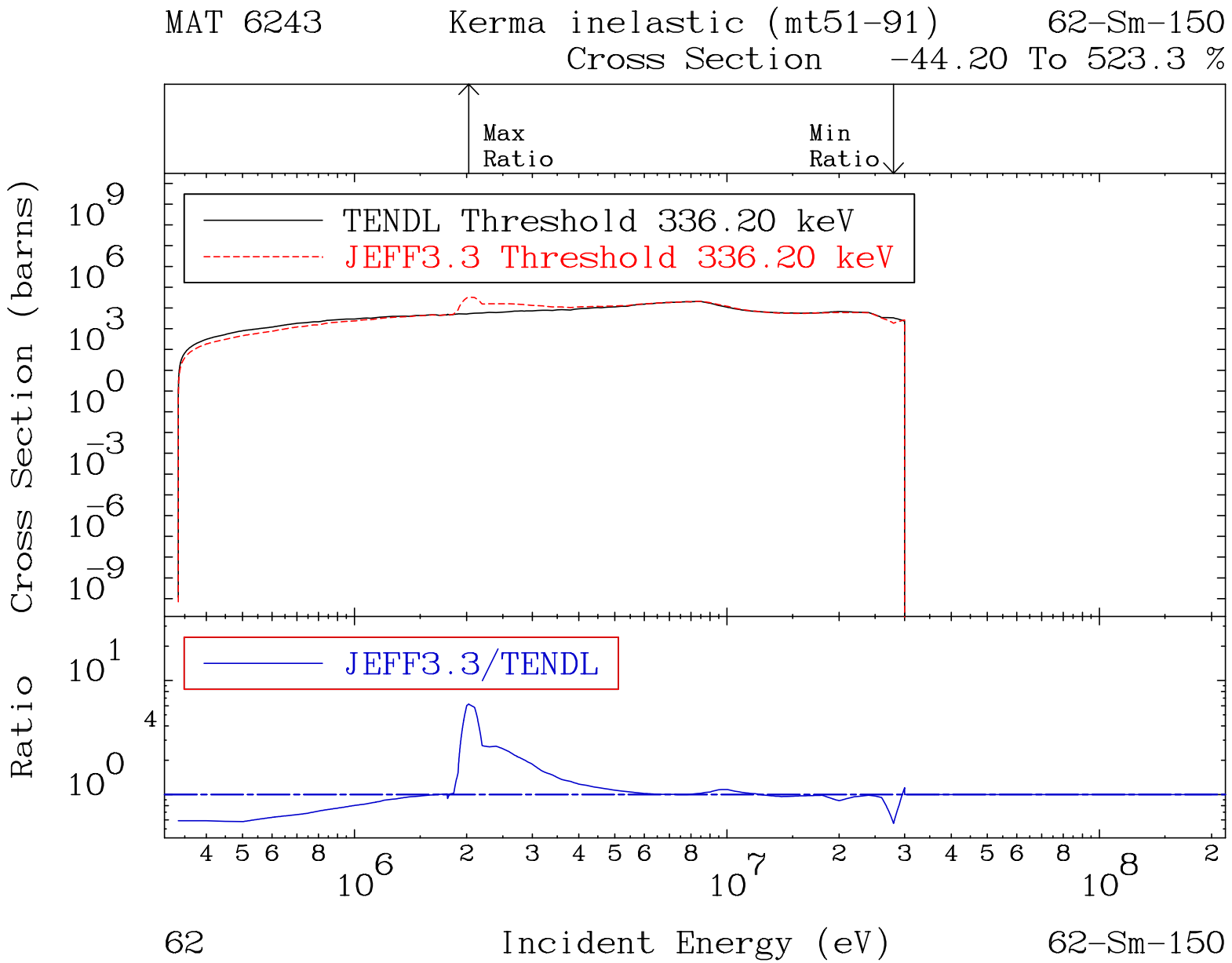

MAT 6243
(n,t):61-Pm-148g
62-Sm-150
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 7.1115 MeV
JENDL5.0 Threshold 7.1115 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2.0
1.0
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
57
Incident Energy (eV)
62-Sm-150

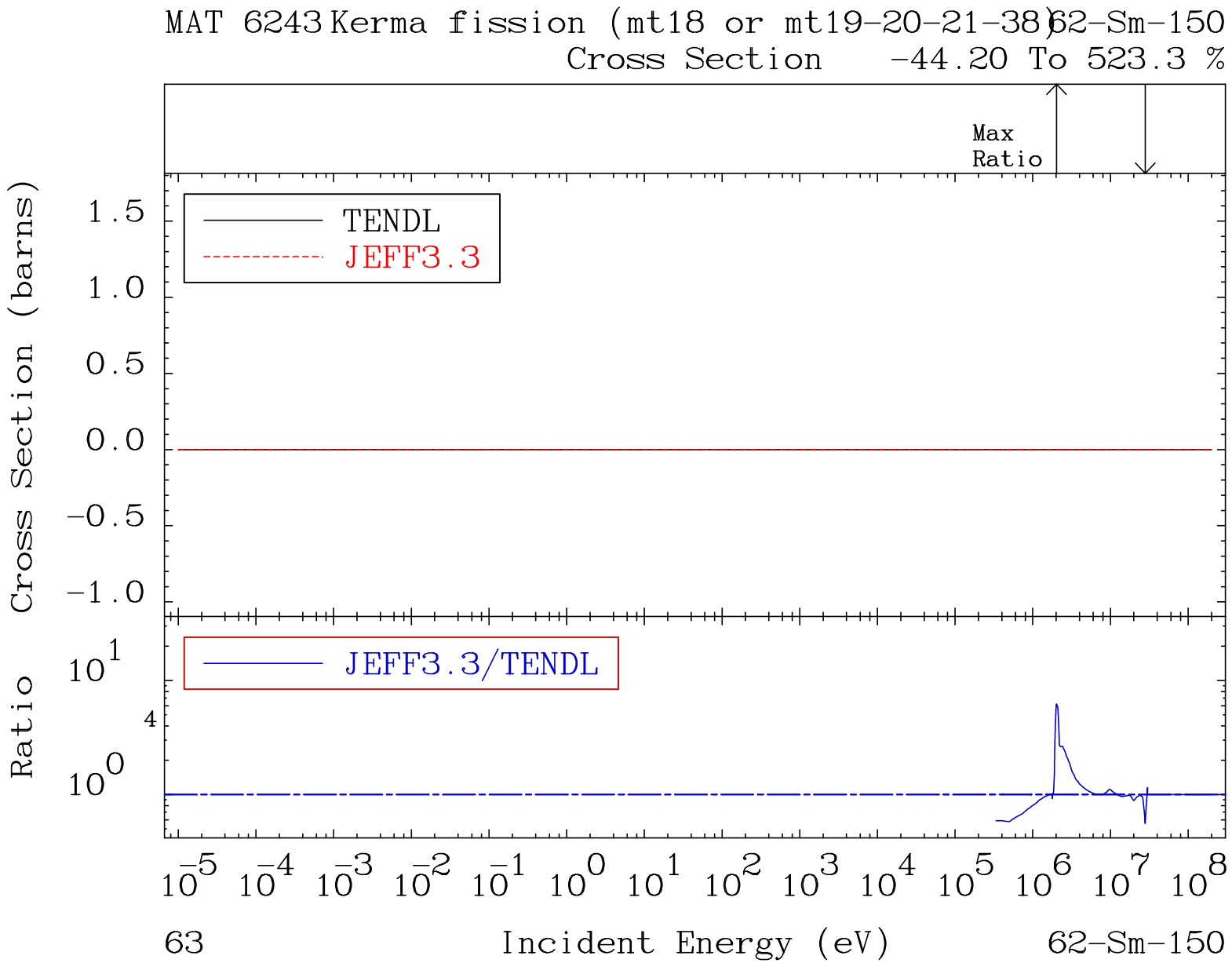

MAT 6243
(n,t):61-Pm-148m3
62-Sm-150
Radionuclide Production Cross Section
100 To 9999. %
Max
Ratio
TENDL Threshold 7.2892 MeV
JENDL5.0 Threshold 7.2503 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
10^5
10^0
10^-5
7 8 10^7 2 3 4 5 6 7 8 10^8 2
58
Incident Energy (eV)
62-Sm-150

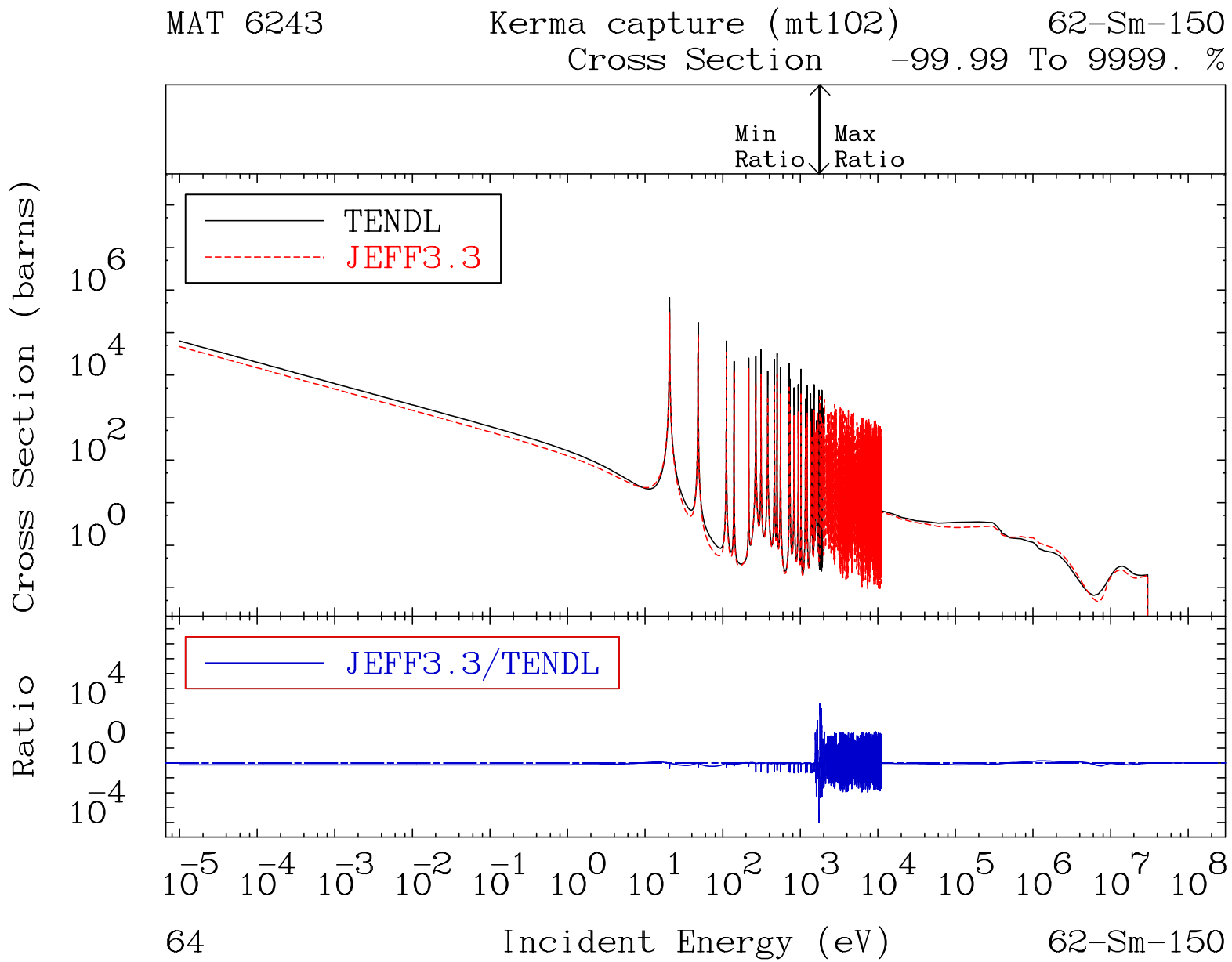

MAT 6243
Kerma total (eV-barns)
62-Sm-150
Cross Section -99.96 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
62-Sm-150

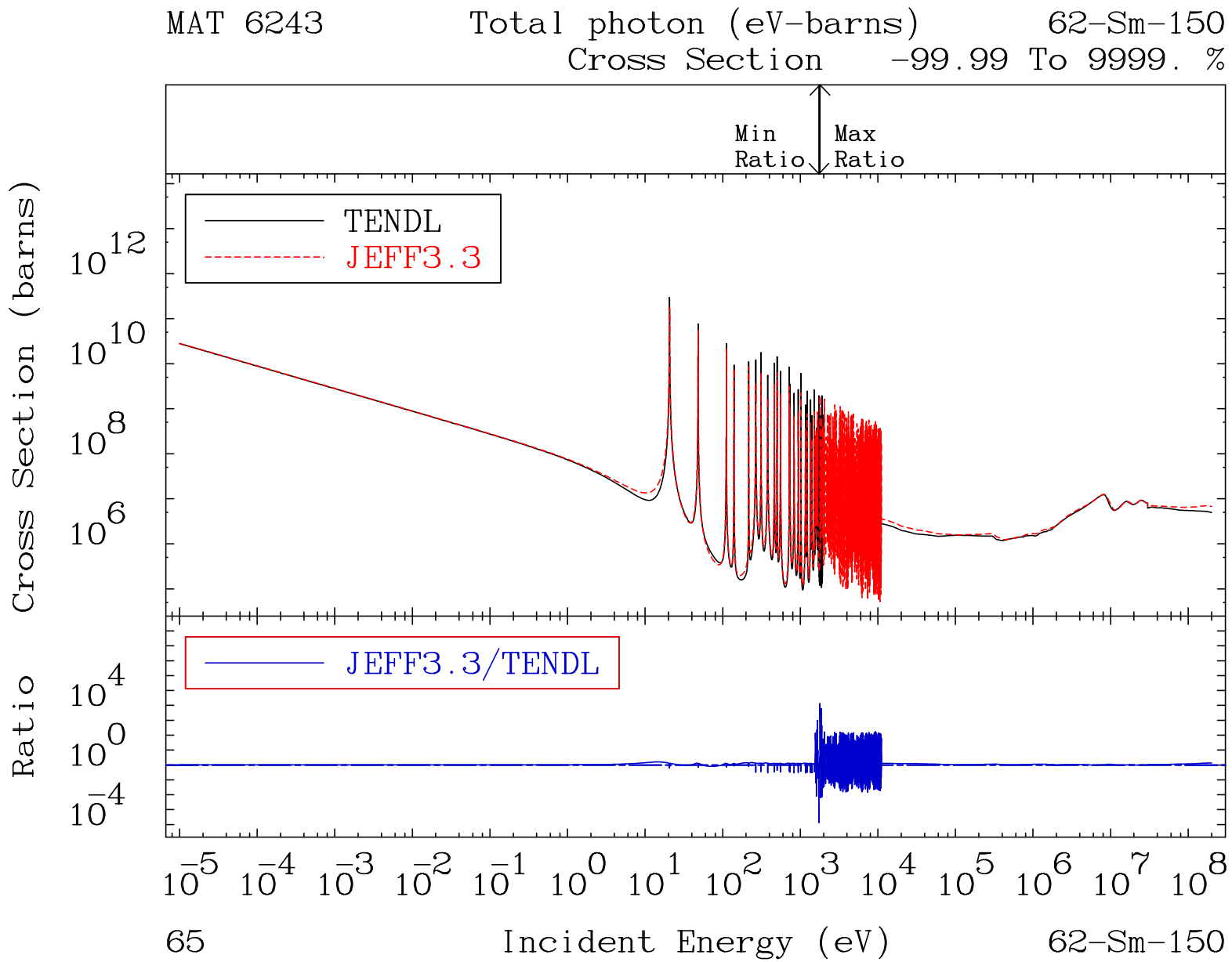

MAT 6243
Kerma elastic
Cross Section
62-Sm-150
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
62-Sm-150

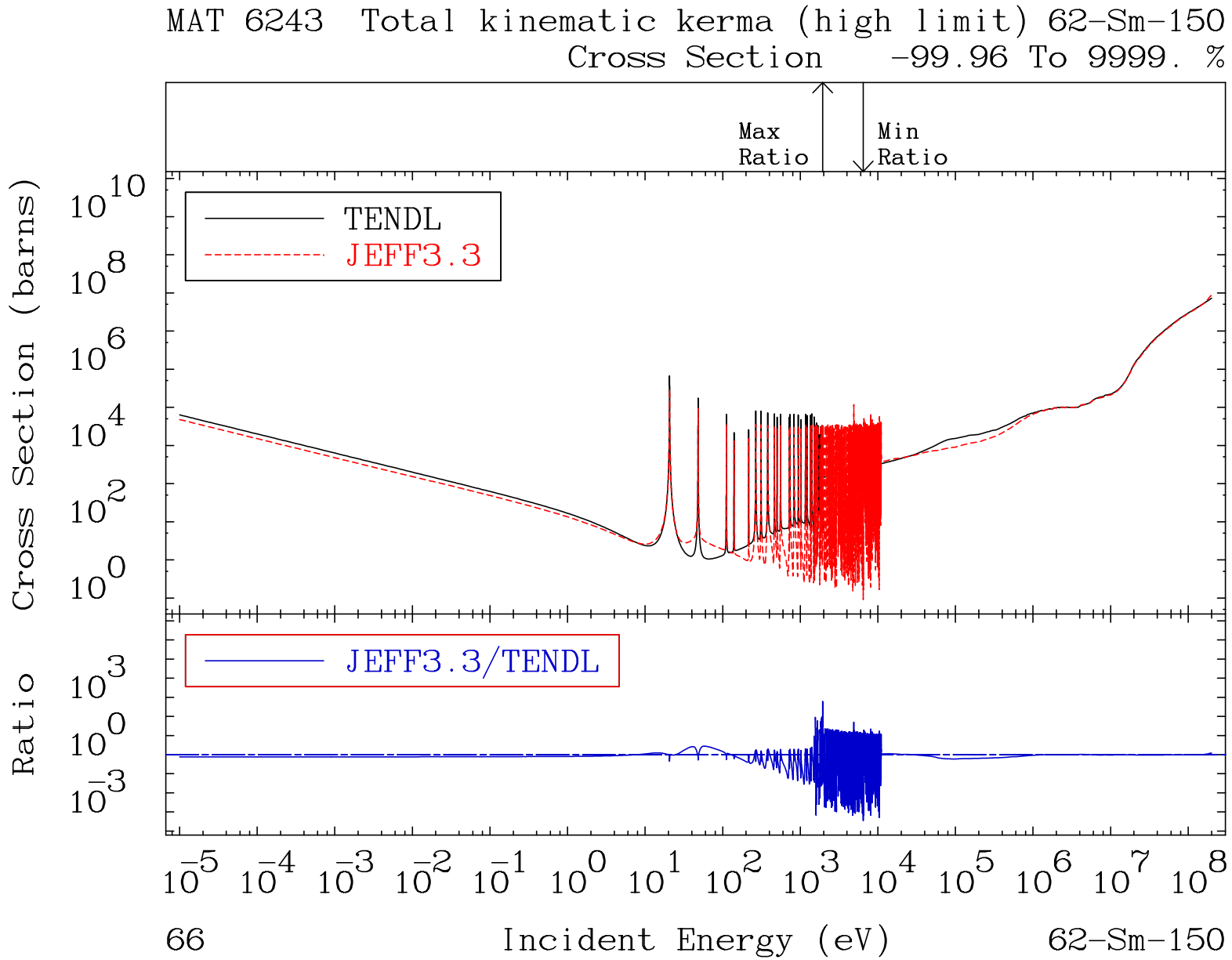

MAT 6243 Kerma non-elastic (all but mt2) 62-Sm-150
Cross Section -99.96 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
62-Sm-150

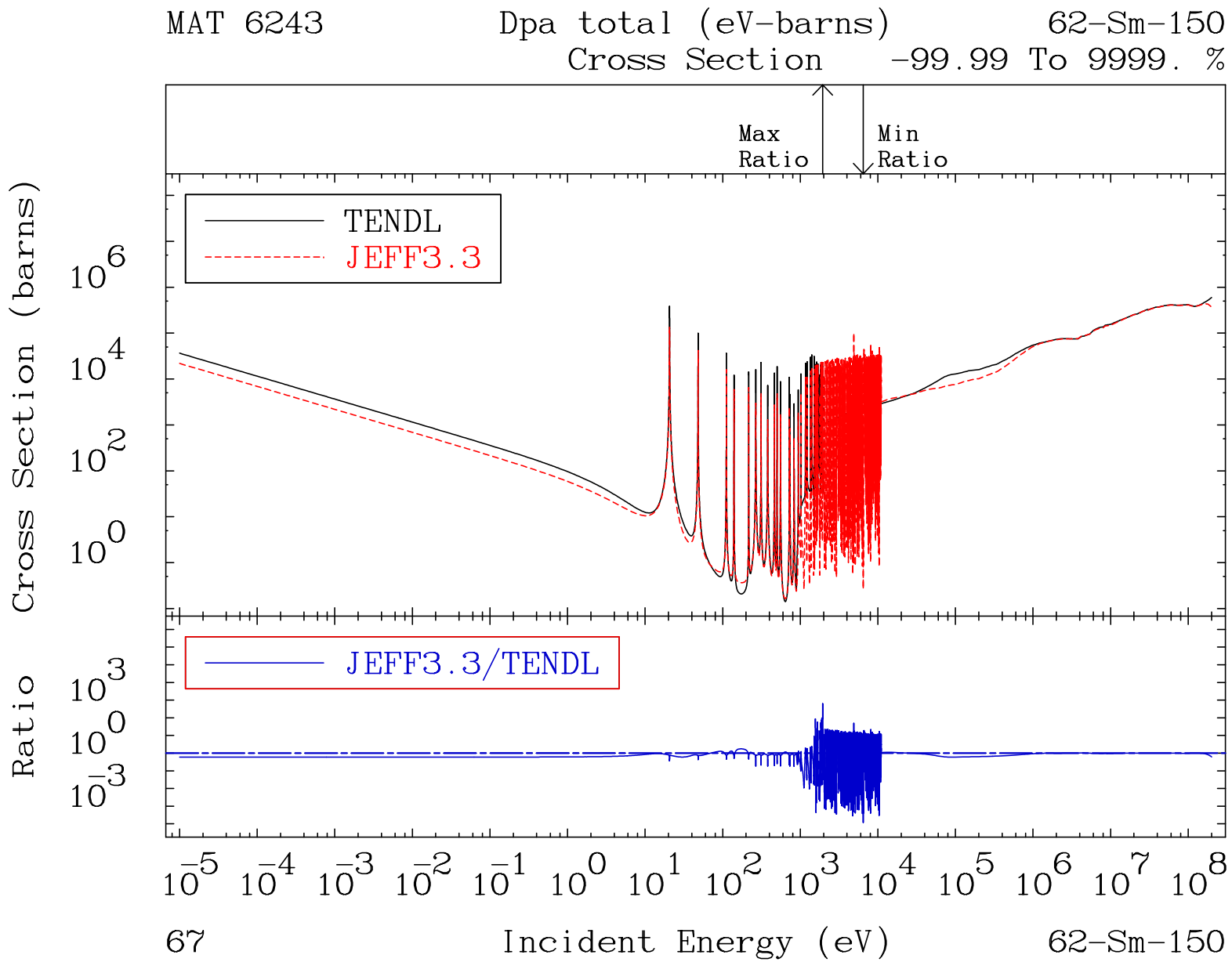

MAT 6243
Kerma inelastic (mt51-91)
62-Sm-150
Cross Section -44.20 To 523.3 %
Max Ratio
Min Ratio
TENDL Threshold 336.20 keV
JEFF3.3 Threshold 336.20 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
62-Sm-150

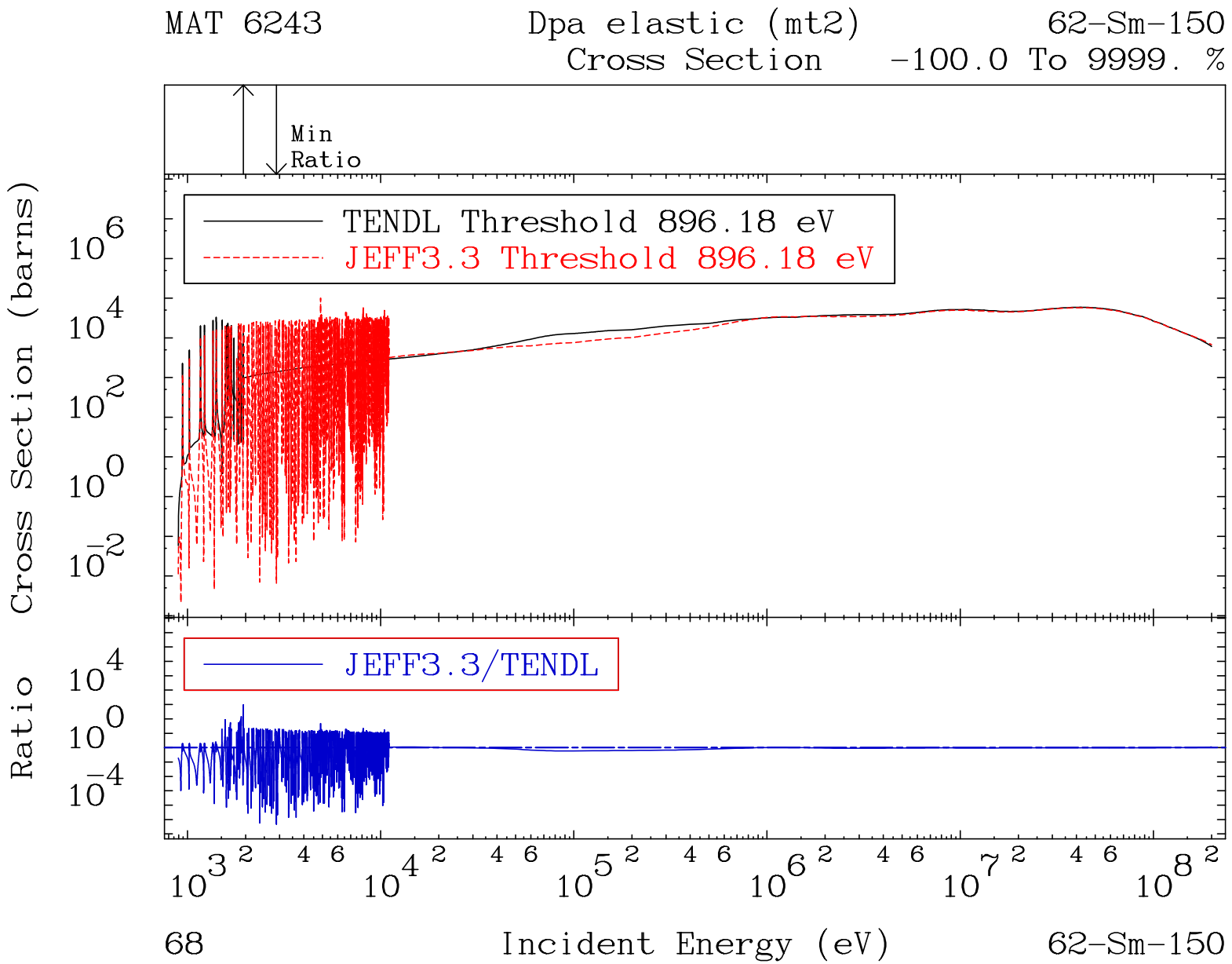

MAT 6243 Kerma fission (mt18 or mt19-20-21-38) 62-Sm-150
Cross Section -44.20 To 523.3 %
Max
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^1
10^0
4
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
63
Incident Energy (eV)
62-Sm-150

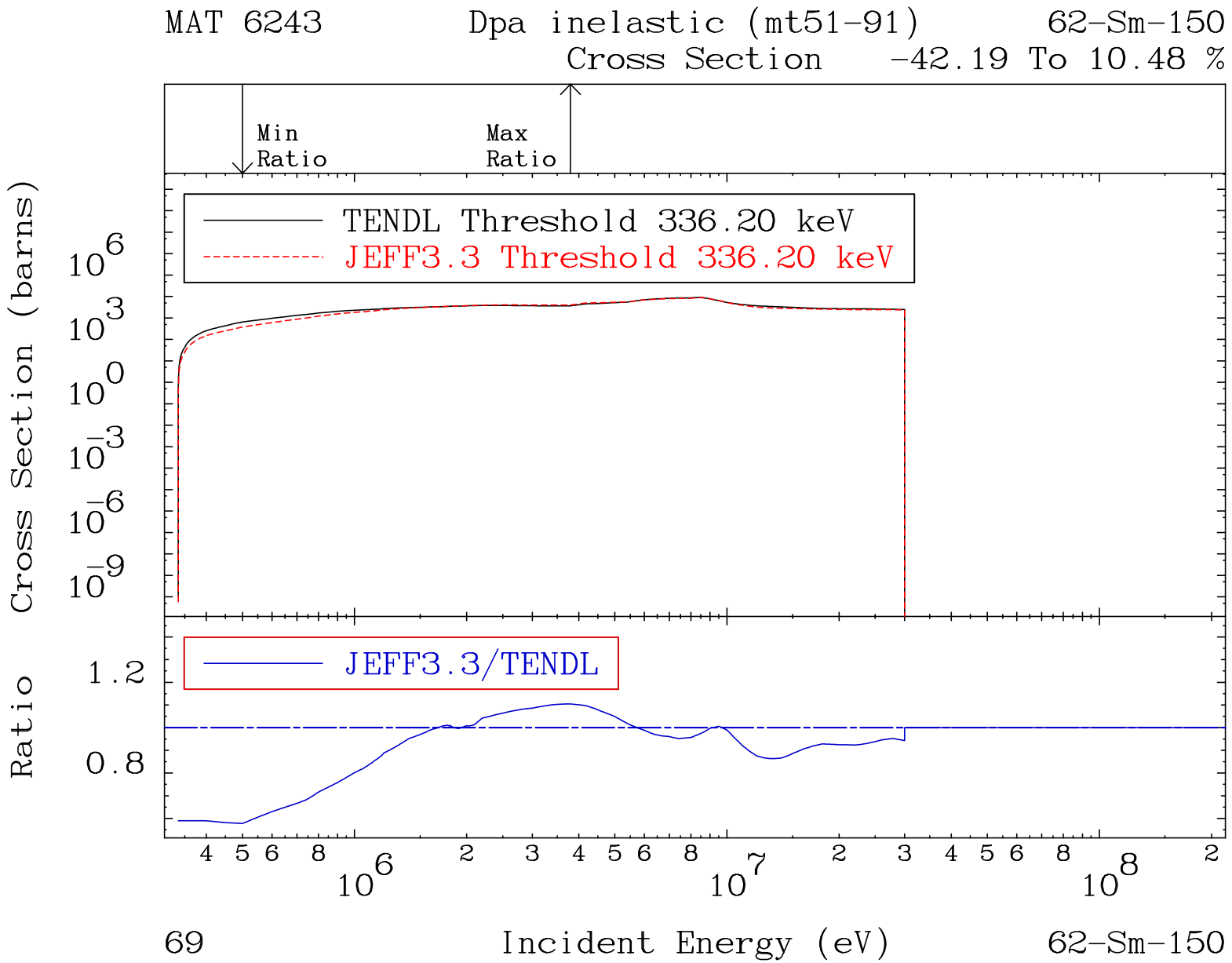

MAT 6243
Kerma capture (mt102)
62-Sm-150
Cross Section
-99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
64
62-Sm-150

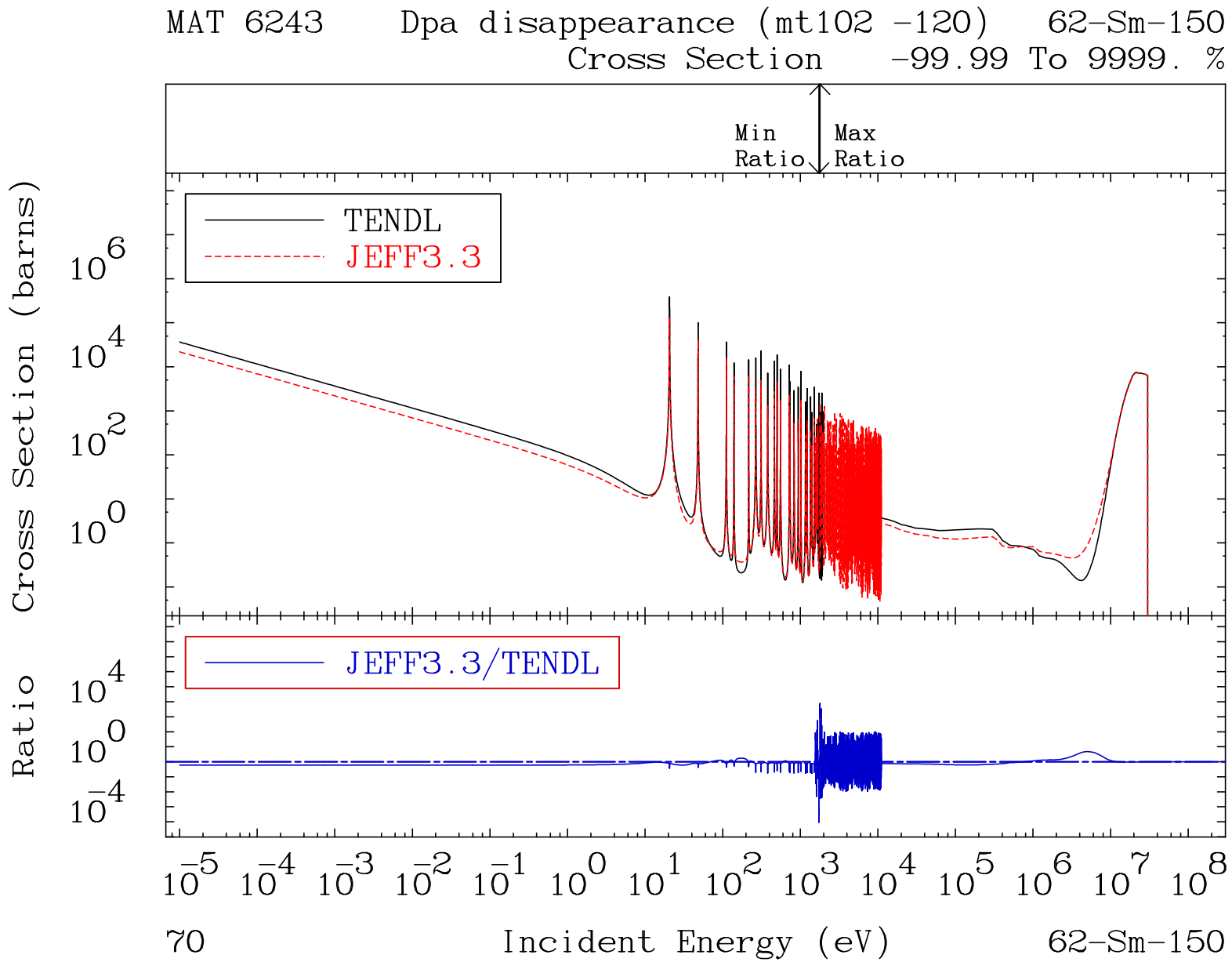

MAT 6243
Total photon (eV-barns)
62-Sm-150
Cross Section -99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
65
62-Sm-150

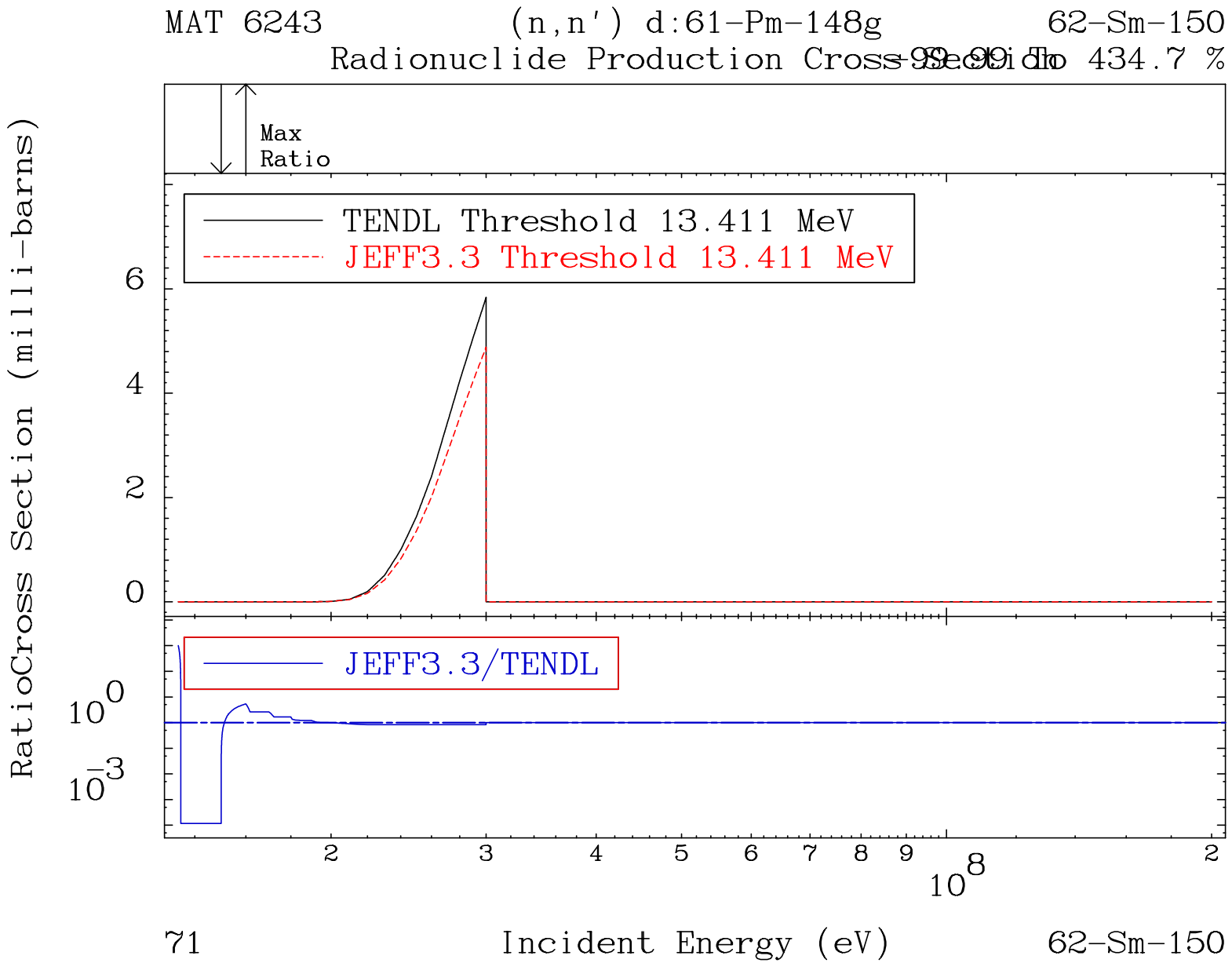

MAT 6243 Total kinematic kerma (high limit) 62-Sm-150
Cross Section -99.96 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
66
62-Sm-150

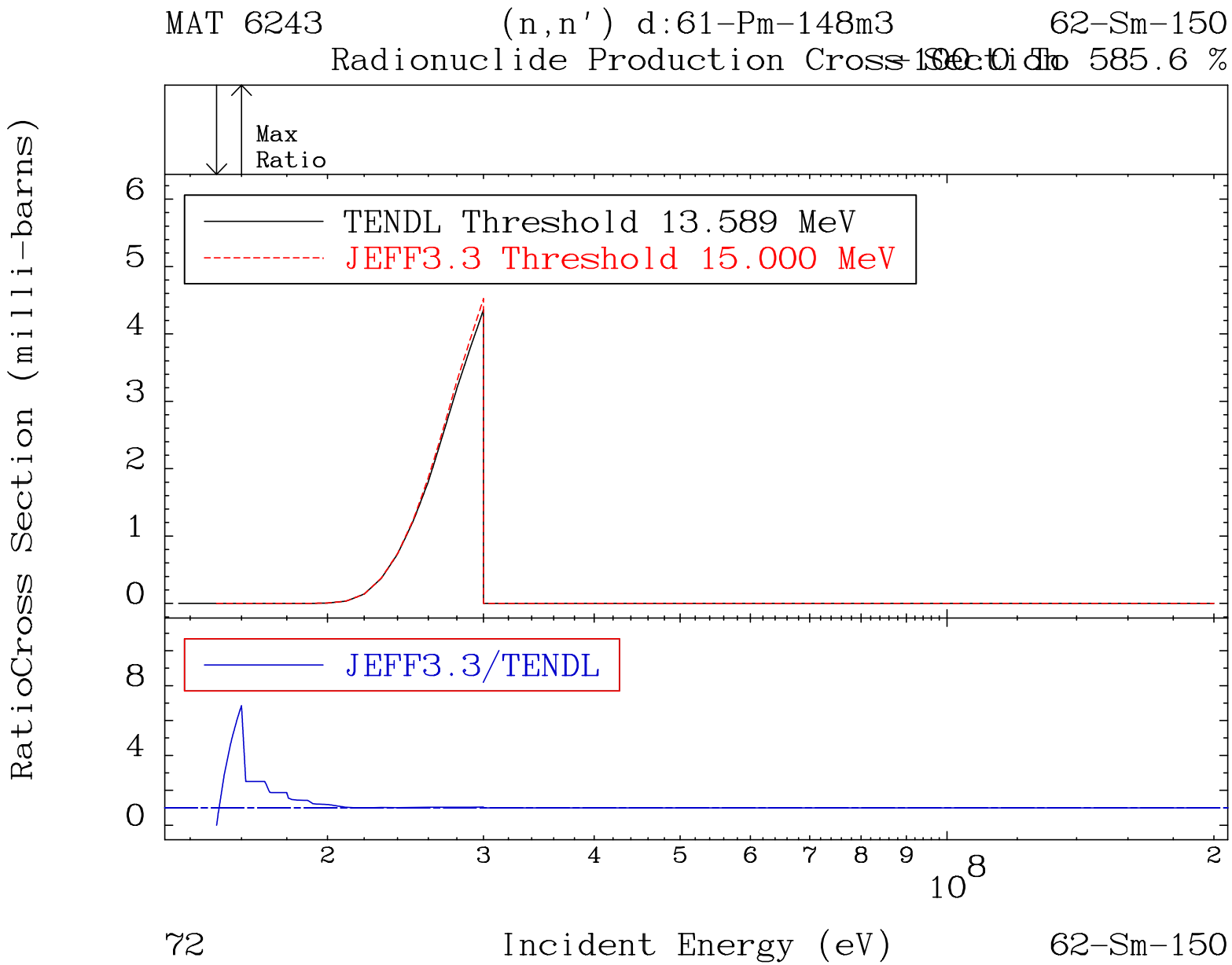

MAT 6243
Dpa total (eV-barns)
62-Sm-150
Cross Section
-99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
67
62-Sm-150

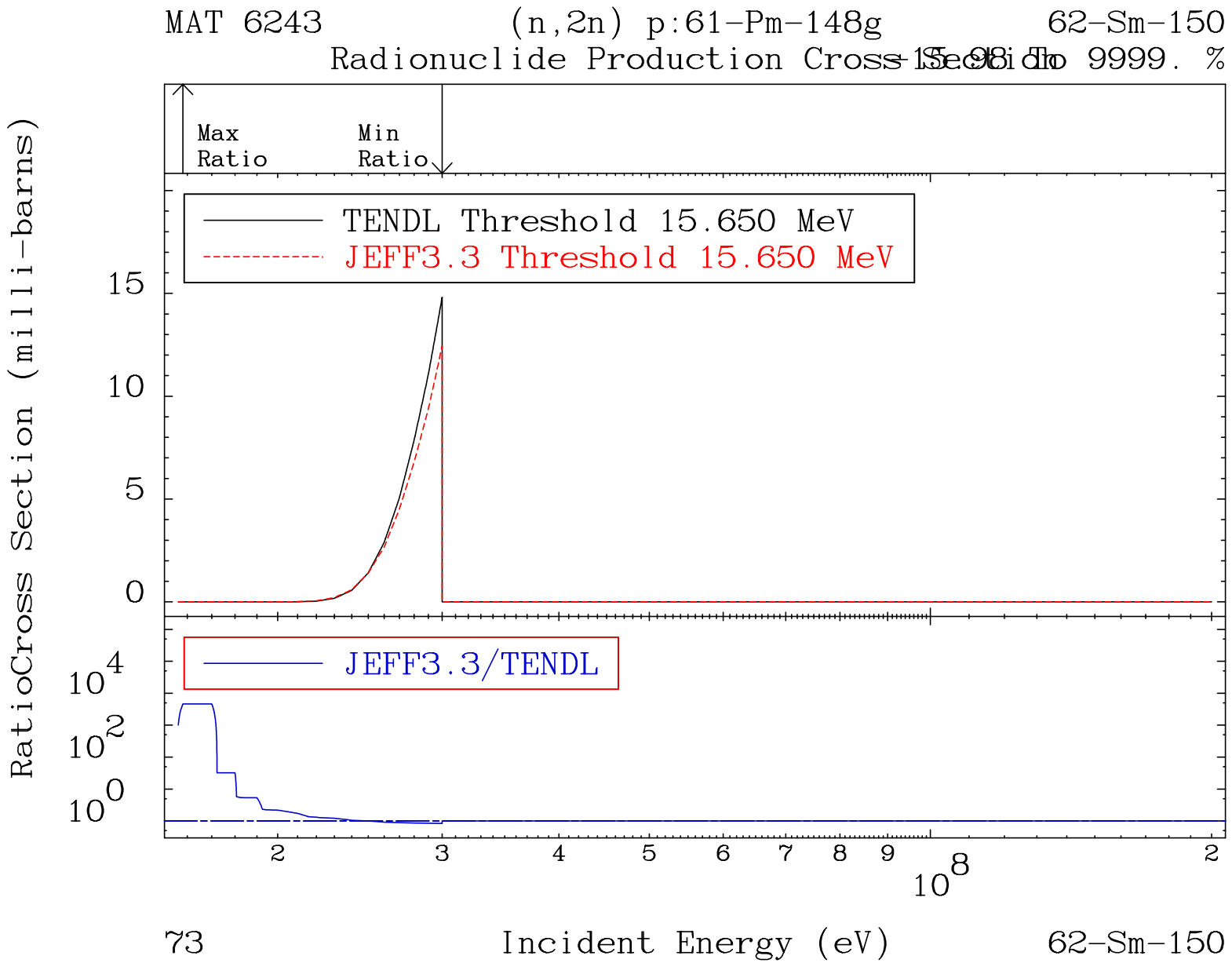

MAT 6243
Dpa elastic (mt2)
Cross Section
62-Sm-150
-100.0 To 9999. %
Min
Ratio
TENDL Threshold 896.18 eV
JEFF3.3 Threshold 896.18 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
68
62-Sm-150

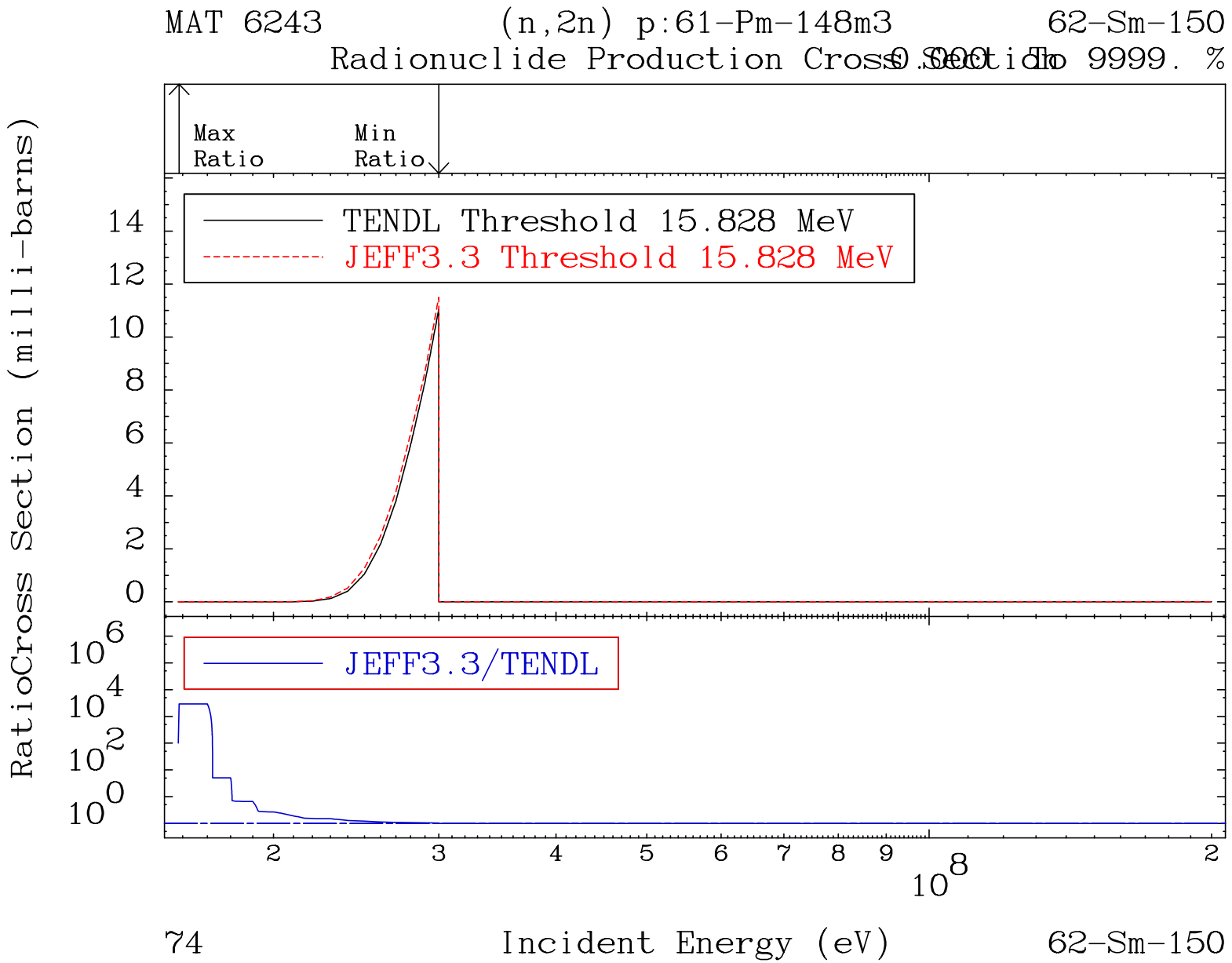

MAT 6243
Dpa inelastic (mt51-91)
62-Sm-150
Cross Section -42.19 To 10.48 %
Min Ratio
Max Ratio
TENDL Threshold 336.20 keV
JEFF3.3 Threshold 336.20 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
69
62-Sm-150

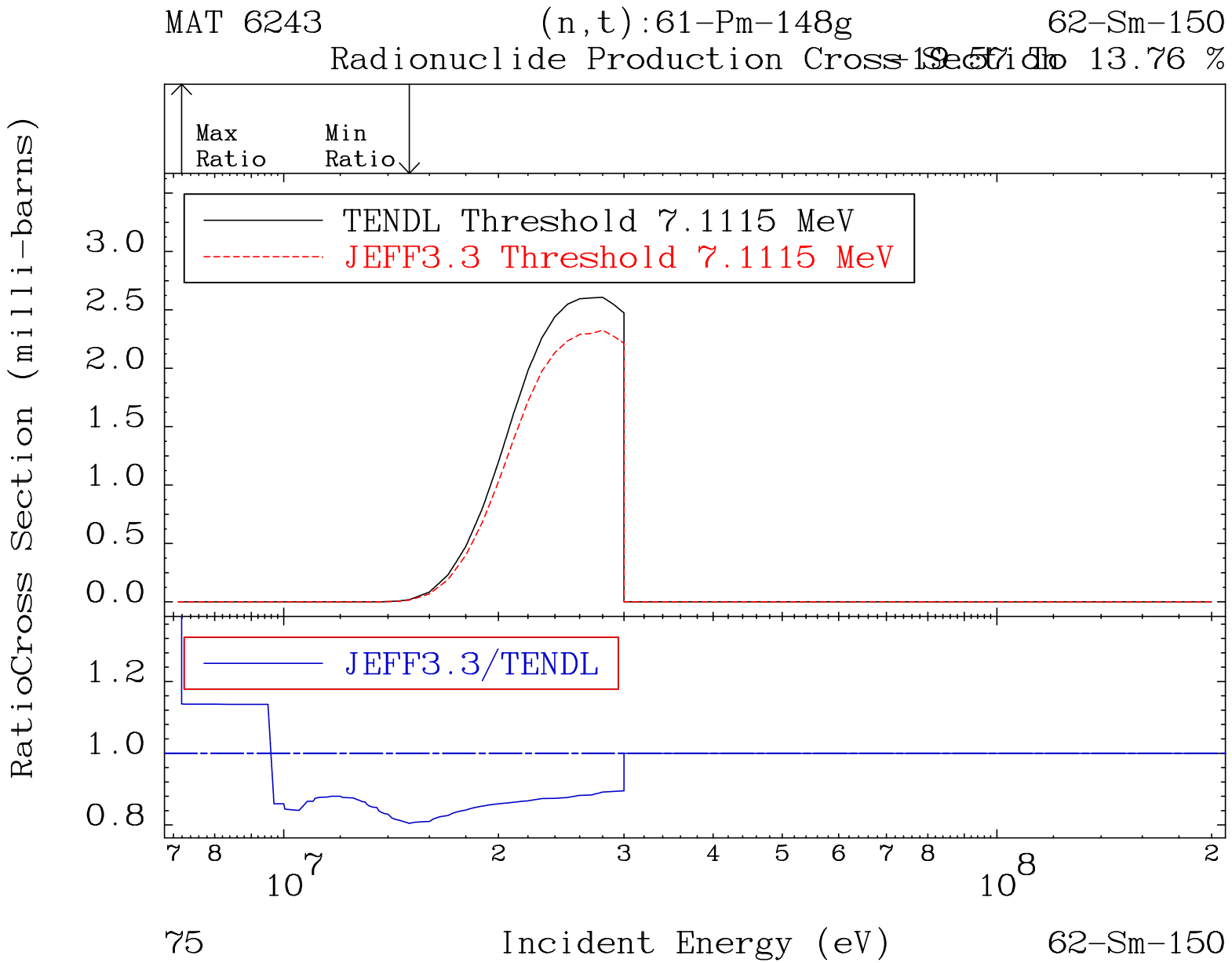

MAT 6243 Dpa disappearance (mt102 -120) 62-Sm-150
Cross Section -99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
70
62-Sm-150

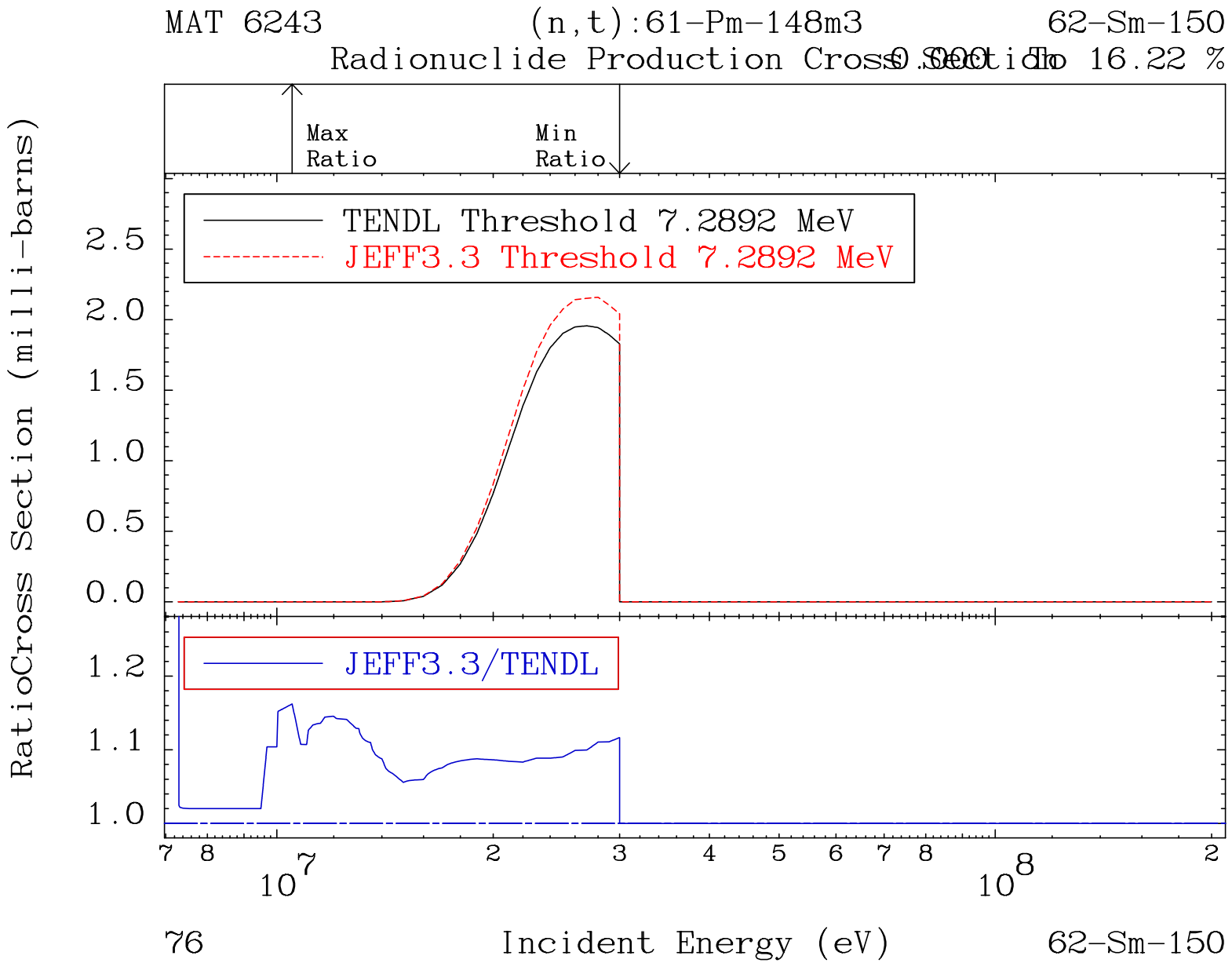

MAT 6243
(n,n') d:61-Pm-148g
62-Sm-150
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 13.411 MeV
JEFF3.3 Threshold 13.411 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
71
62-Sm-150


MAT 6243
(n,n') d:61-Pm-148m3
62-Sm-150
Radionuclide Production Cross Section To 585.6 %
Max
Ratio
TENDL Threshold 13.589 MeV
JEFF3.3 Threshold 15.000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
72
62-Sm-150


MAT 6243
(n,2n) p:61-Pm-148g
62-Sm-150
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 15.650 MeV
JEFF3.3 Threshold 15.650 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
73
62-Sm-150


MAT 6243 (n,2n) p:61-Pm-148m3 62-Sm-150
Radionuclide Production Cross Section
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 15.828 MeV
JEFF3.3 Threshold 15.828 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
74
62-Sm-150


MAT 6243
(n,t):61-Pm-148g
62-Sm-150
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 7.1115 MeV
JEFF3.3 Threshold 7.1115 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
75
62-Sm-150


MAT 6243
(n,t):61-Pm-148m3
62-Sm-150
Radionuclide Production Cross Section
0.000 To 16.22 %
Max Ratio
Min Ratio
TENDL Threshold 7.2892 MeV
JEFF3.3 Threshold 7.2892 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
1.2
1.1
1.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
76
Incident Energy (eV)
62-Sm-150