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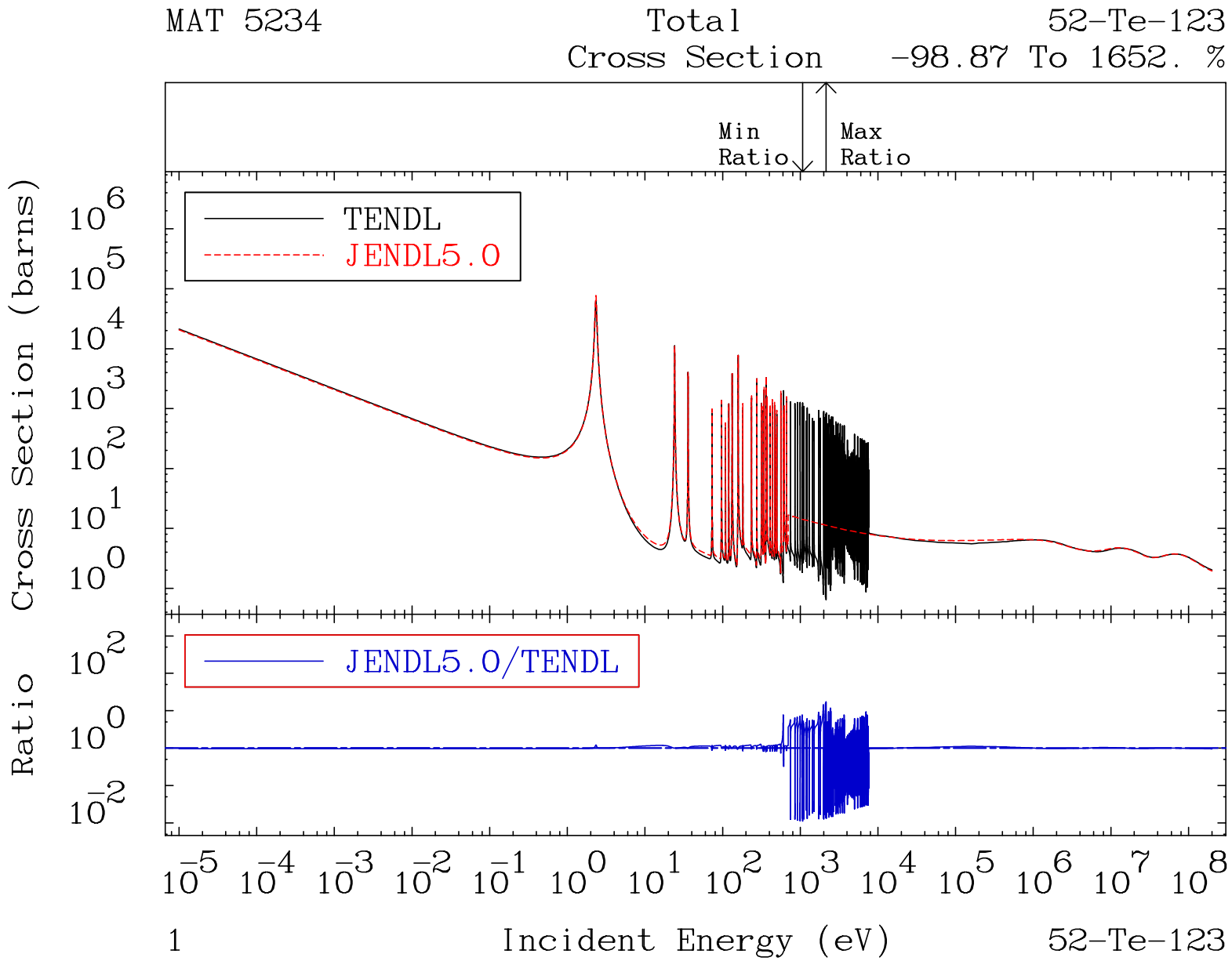
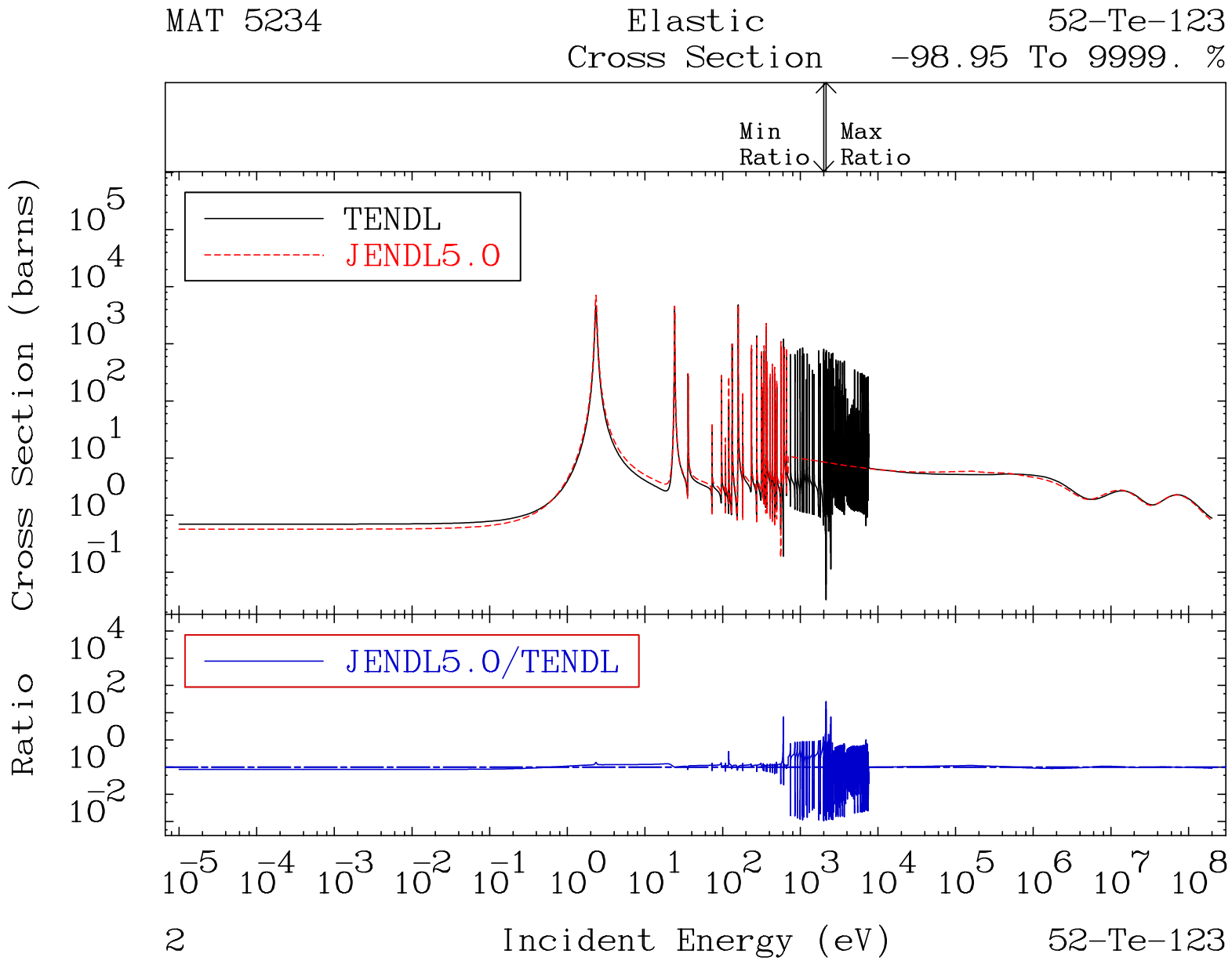
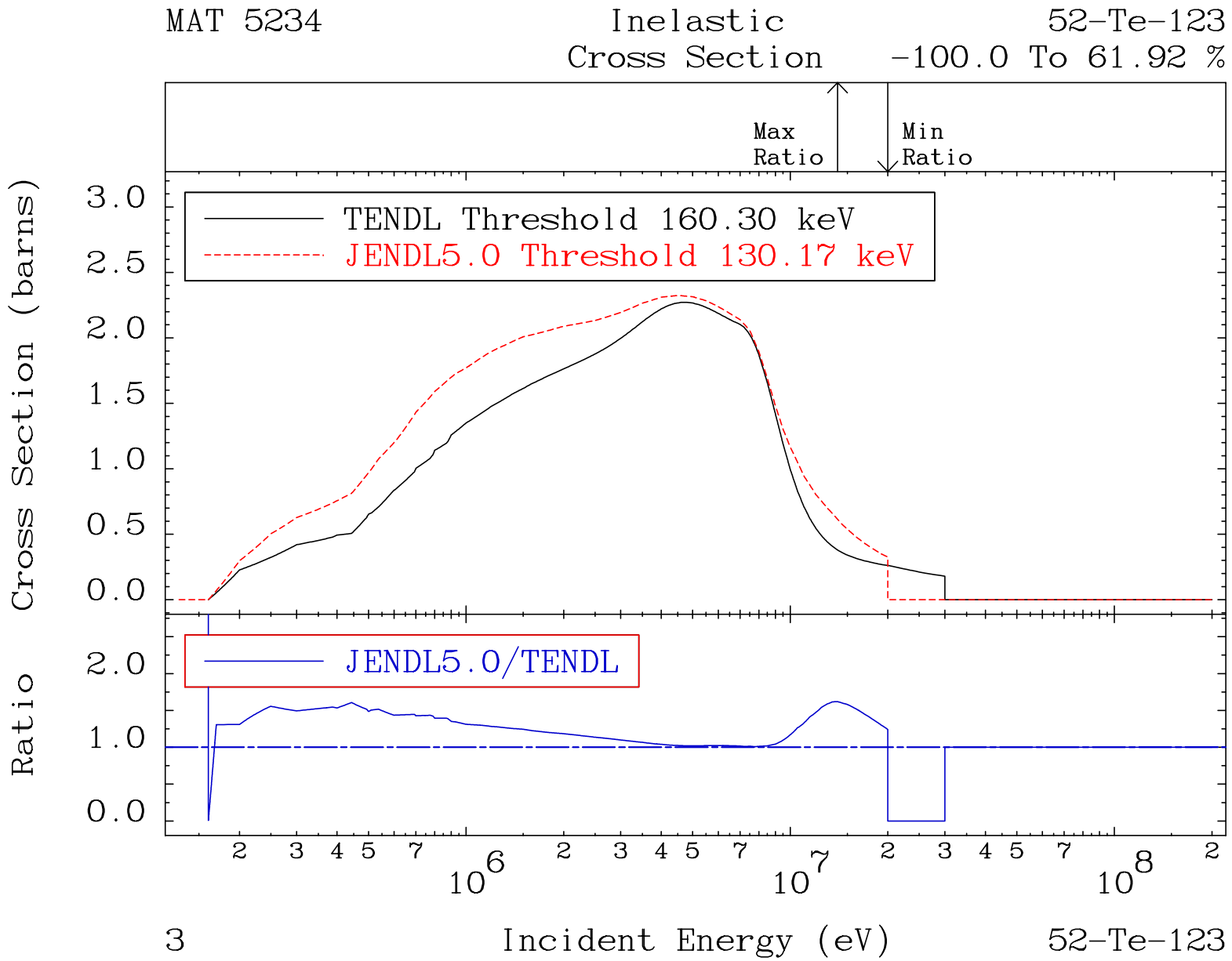
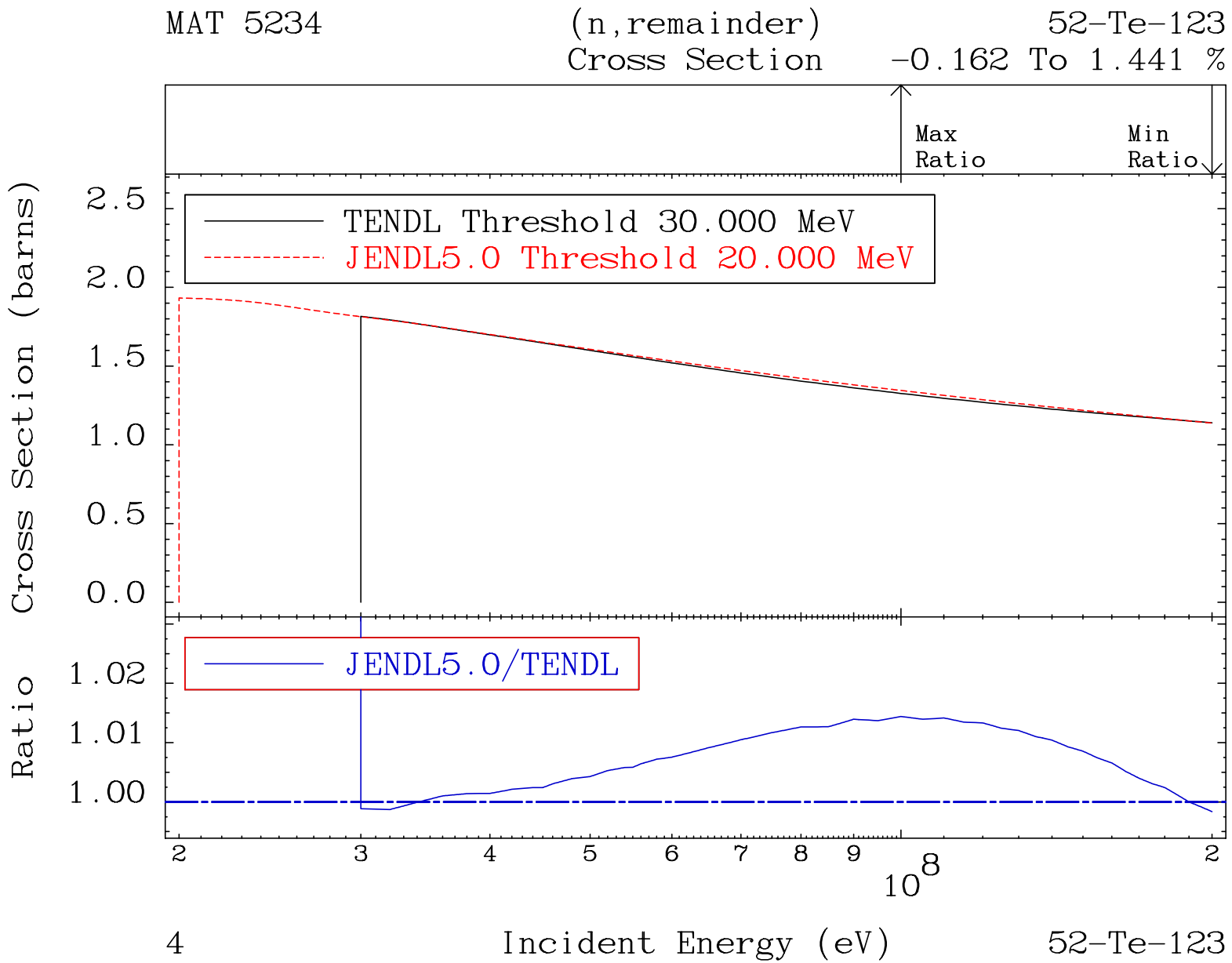
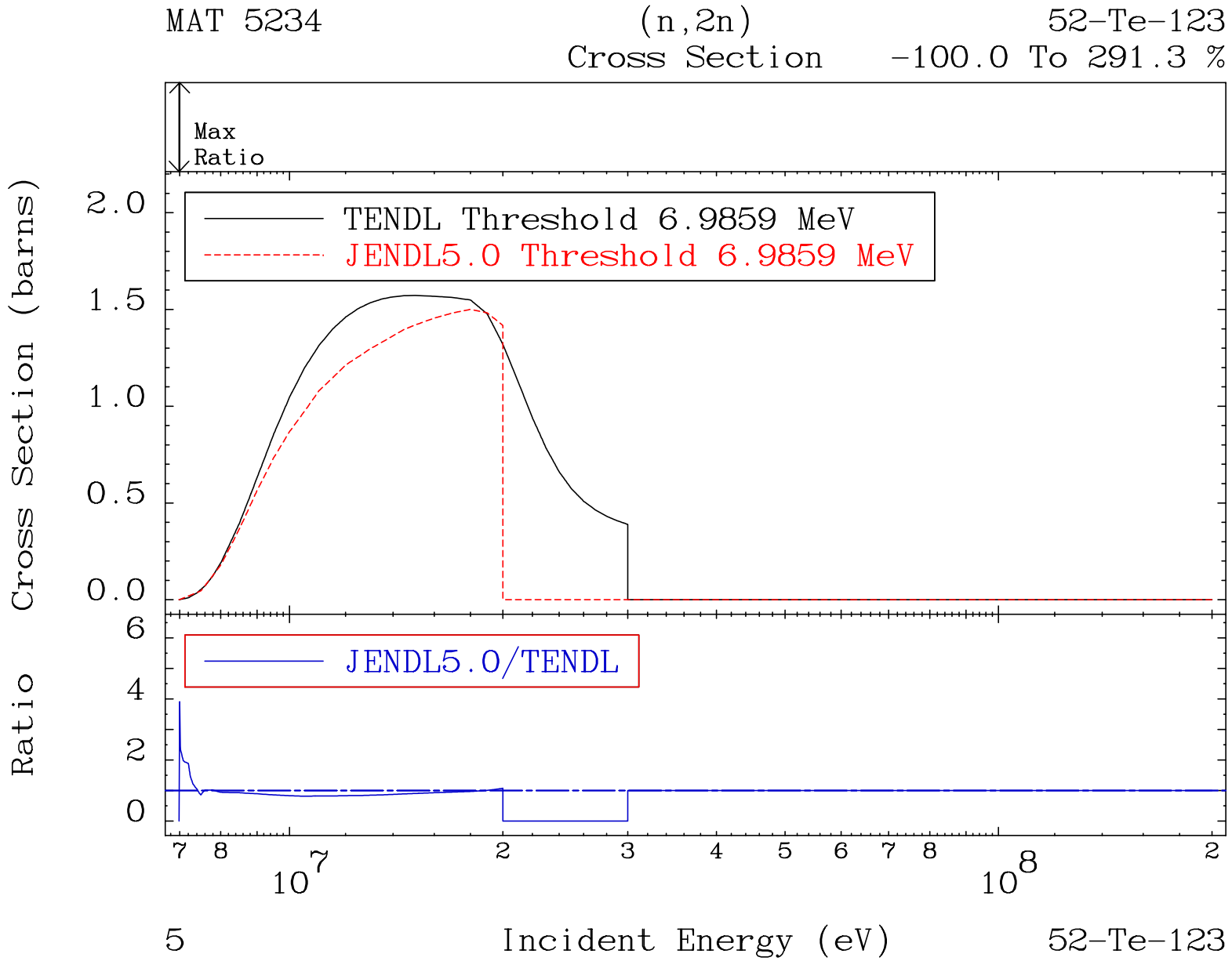
Press Mouse Button to Start

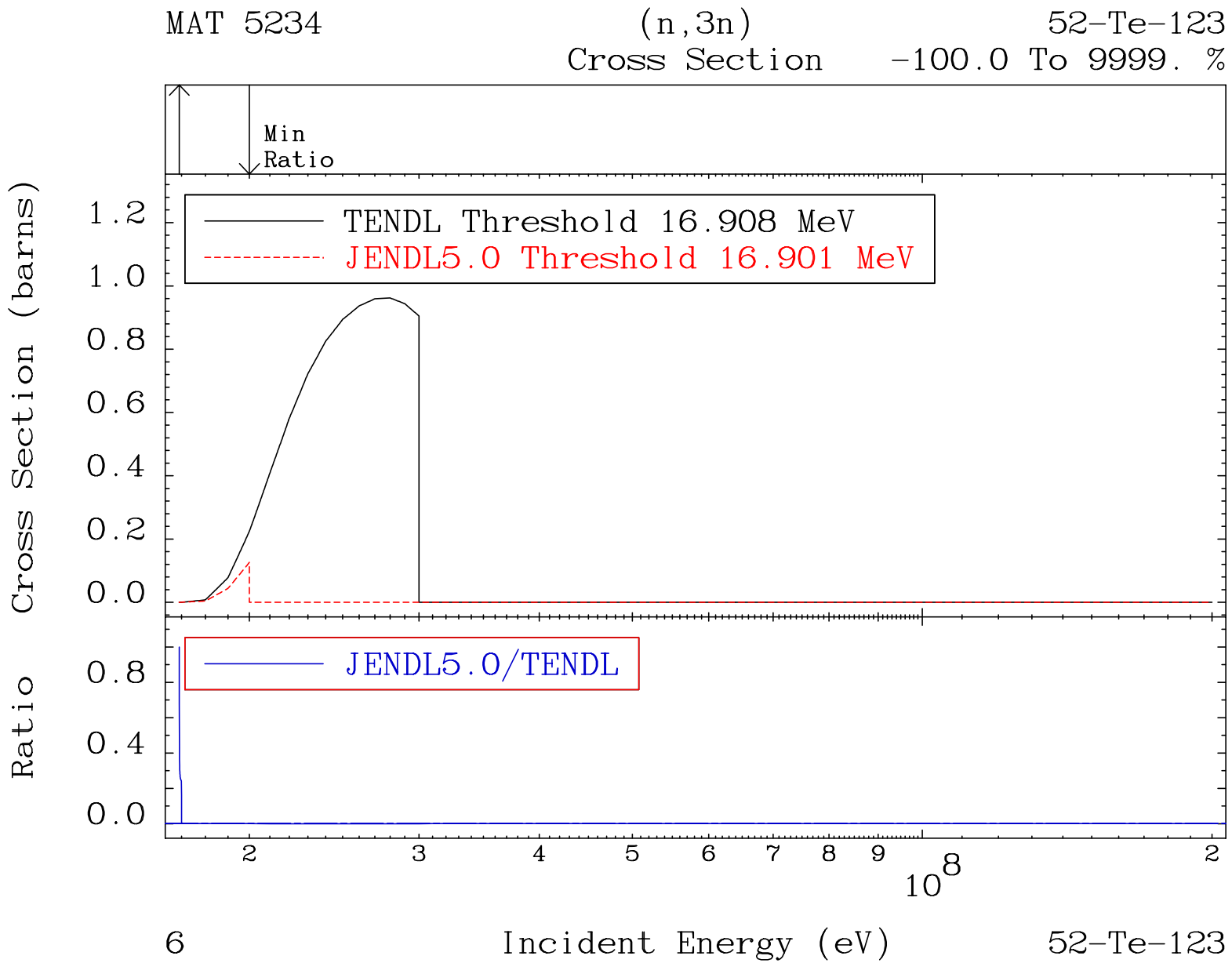

MAT 5234
Total
Cross Section
52-Te-123
-98.87 To 1652. %
Min
Ratio
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
52-Te-123

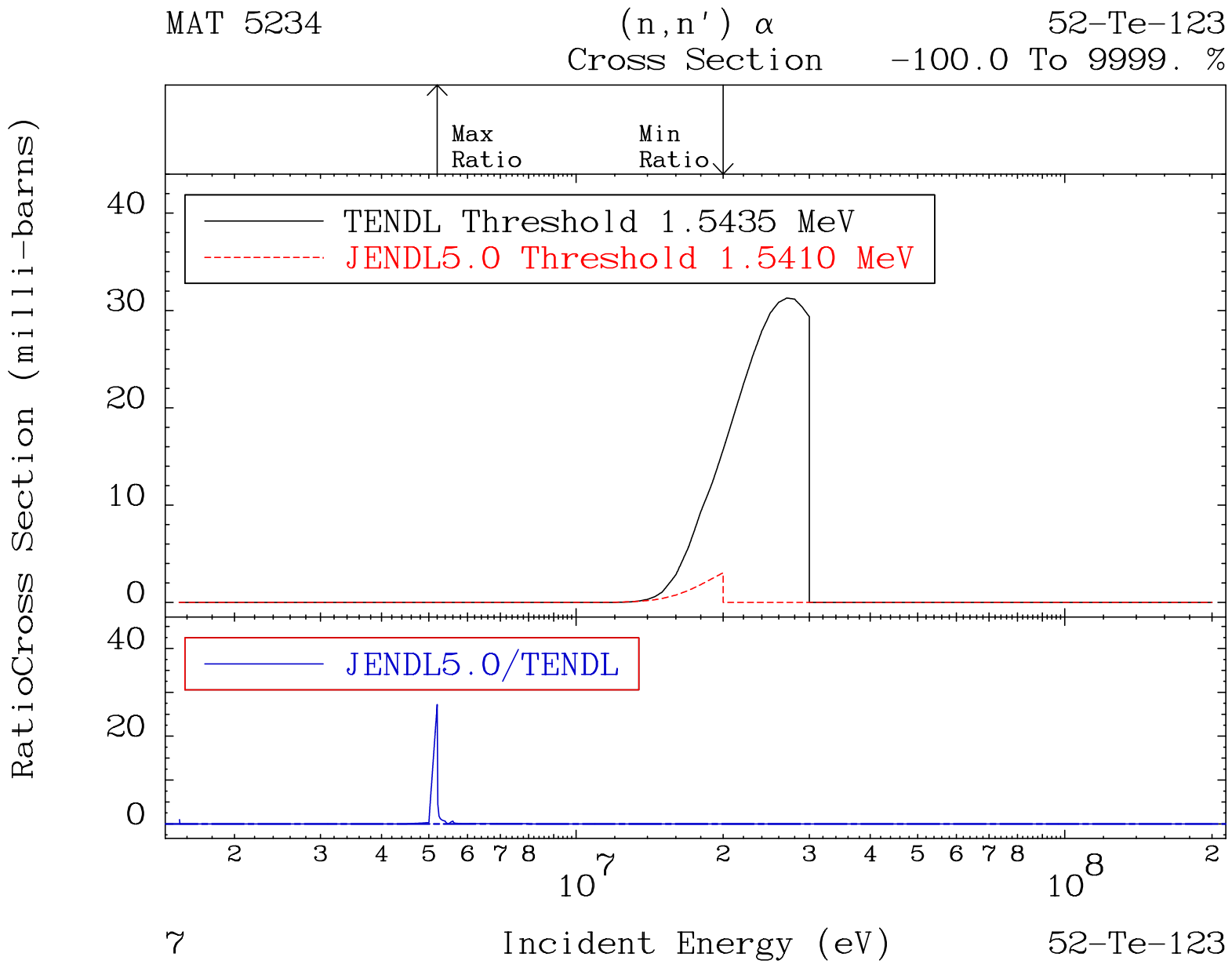

MAT 5234
Elastic
Cross Section
52-Te-123
-98.95 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
52-Te-123

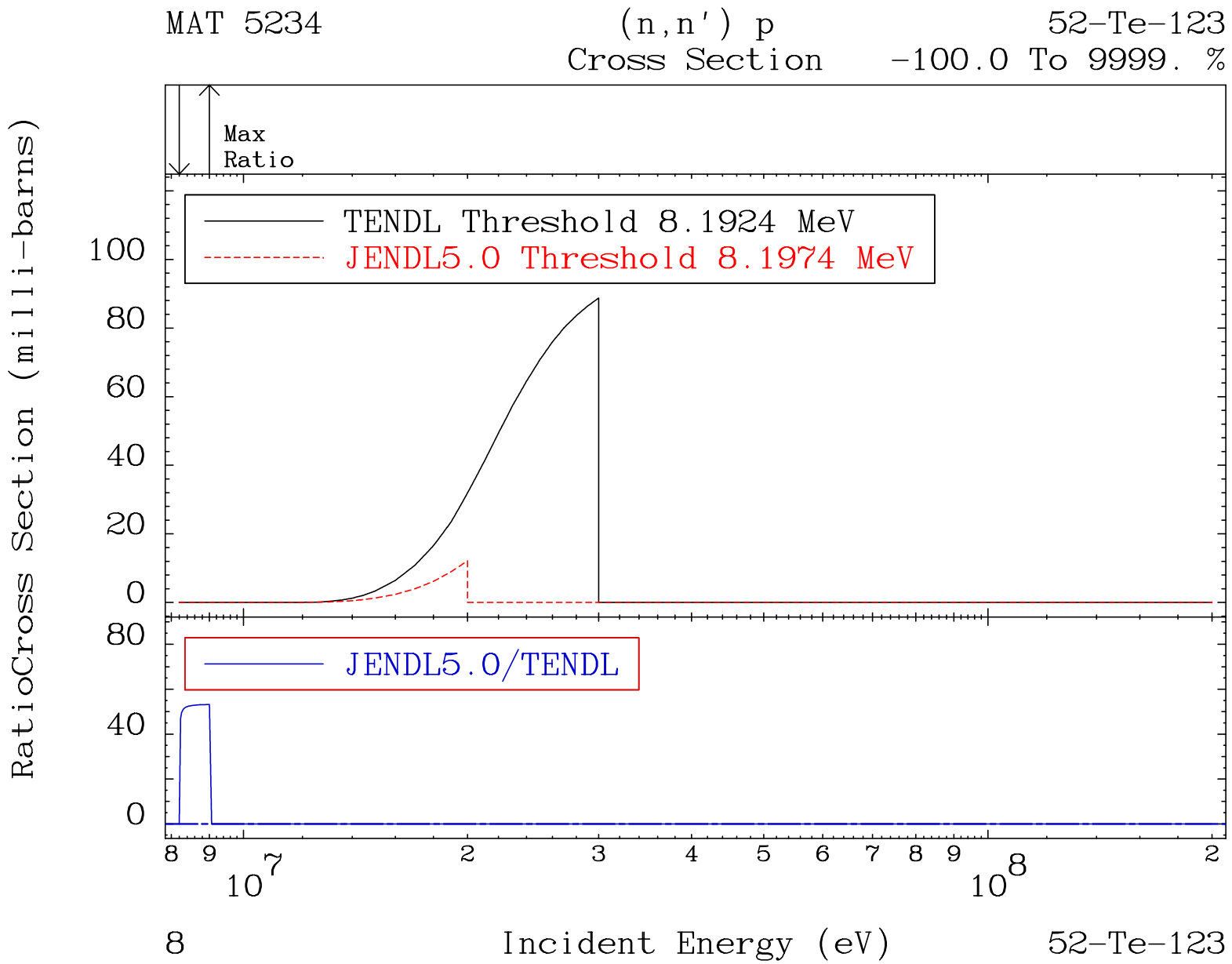

MAT 5234
Inelastic
Cross Section
52-Te-123
-100.0 To 61.92 %
Max
Ratio
Min
Ratio
TENDL Threshold 160.30 keV
JENDL5.0 Threshold 130.17 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2.0
1.0
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
3
Incident Energy (eV)
52-Te-123

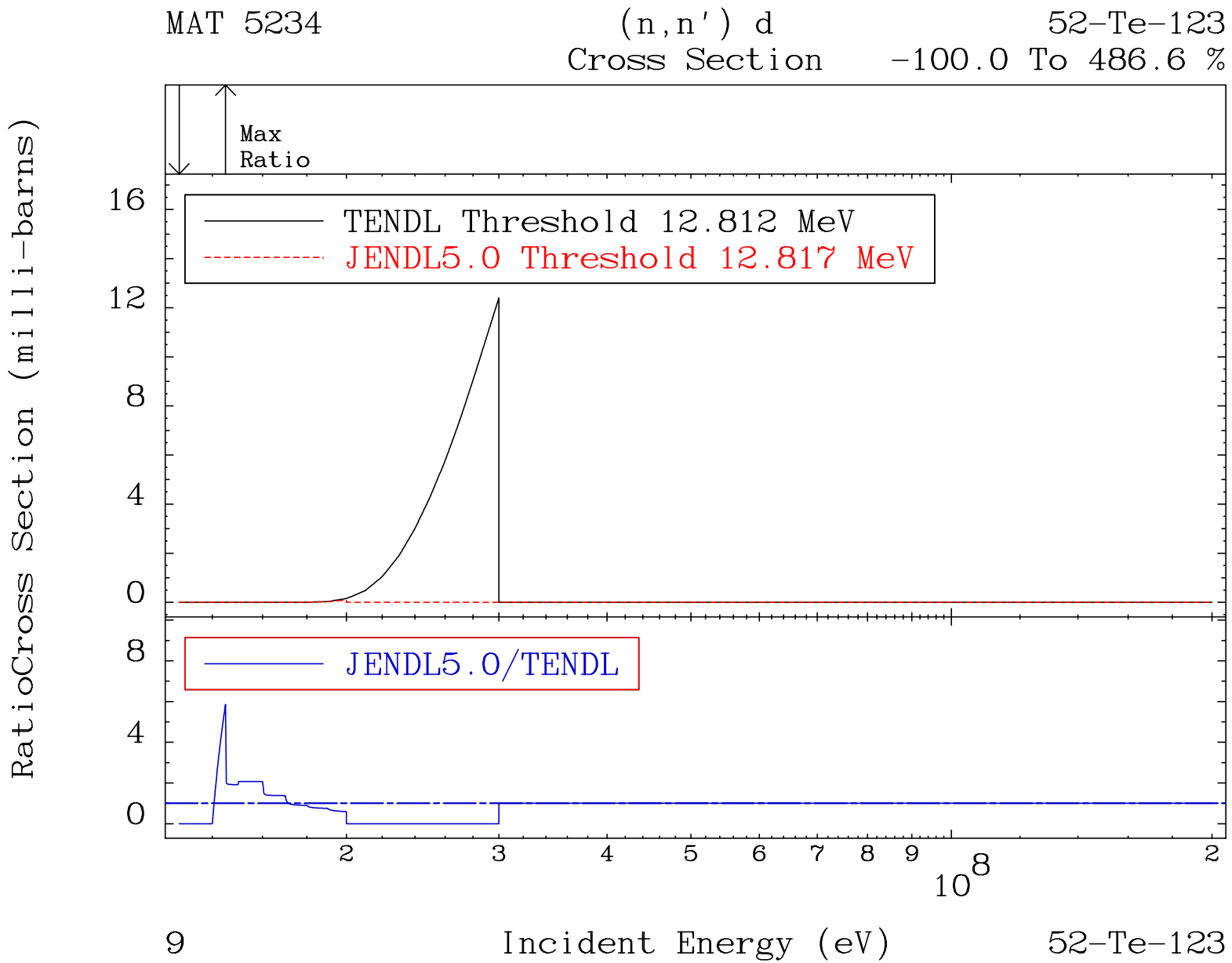

MAT 5234
(n,remainder)
Cross Section
52-Te-123
-0.162 To 1.441 %
Max Ratio
Min Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JENDL5.0/TENDL
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
52-Te-123

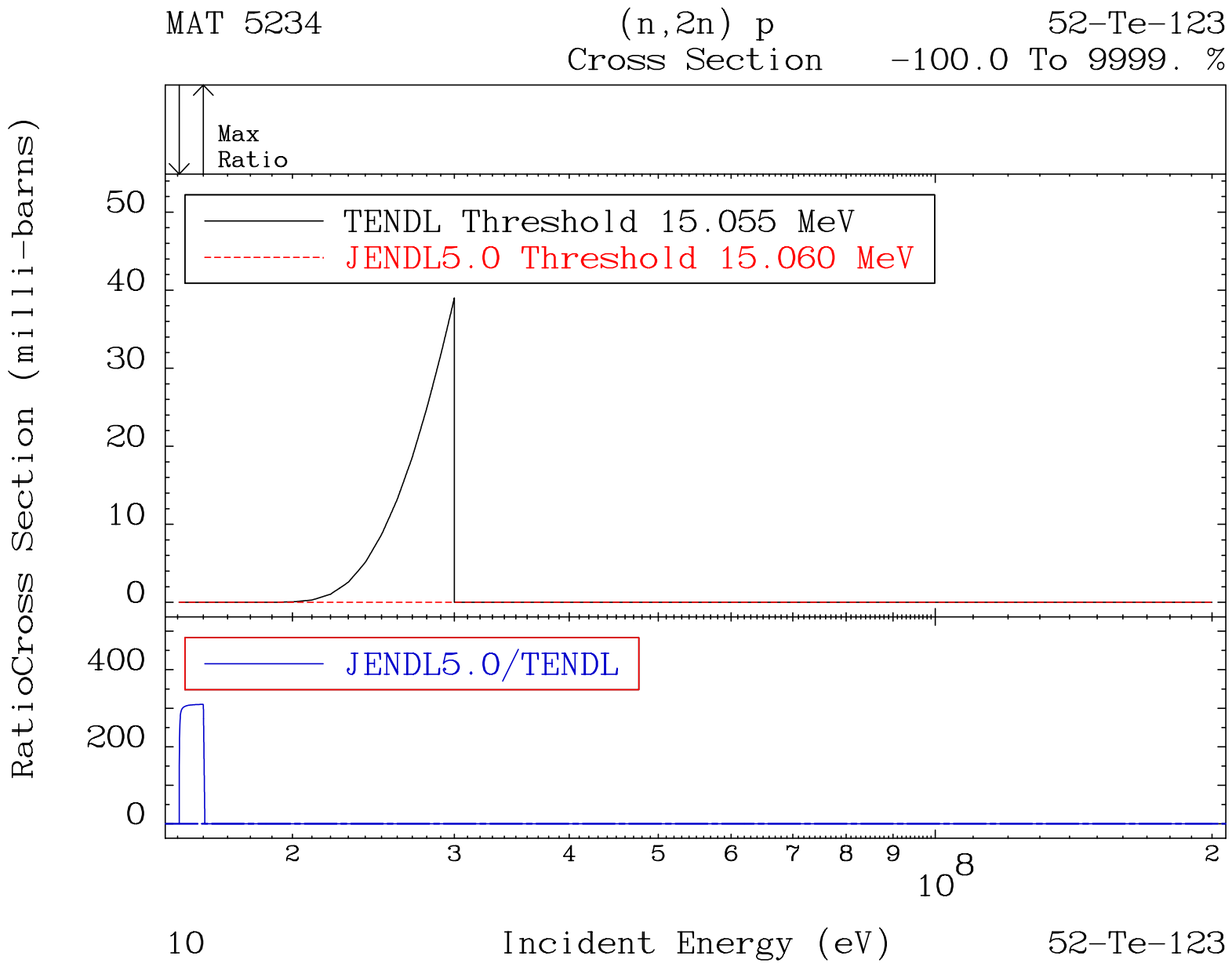

MAT 5234
(n,2n)
Cross Section
52-Te-123
-100.0 To 291.3 %
Max
Ratio
TENDL Threshold 6.9859 MeV
JENDL5.0 Threshold 6.9859 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
6
4
2
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
5
52-Te-123

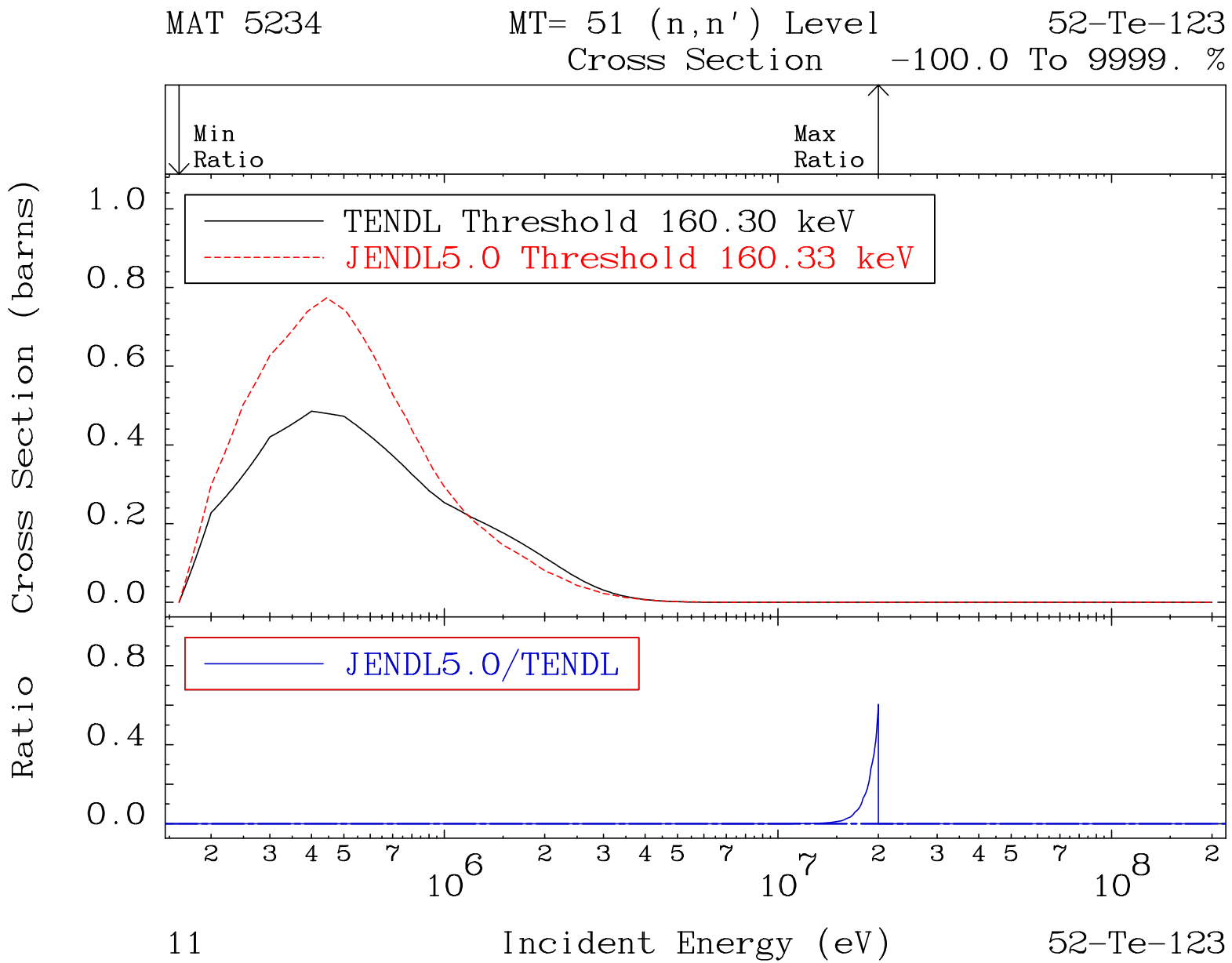

MAT 5234
(n,3n)
52-Te-123
Cross Section
-100.0 To 9999. %
Min
Ratio
TENDL Threshold 16.908 MeV
JENDL5.0 Threshold 16.901 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.8
0.4
0.0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
52-Te-123

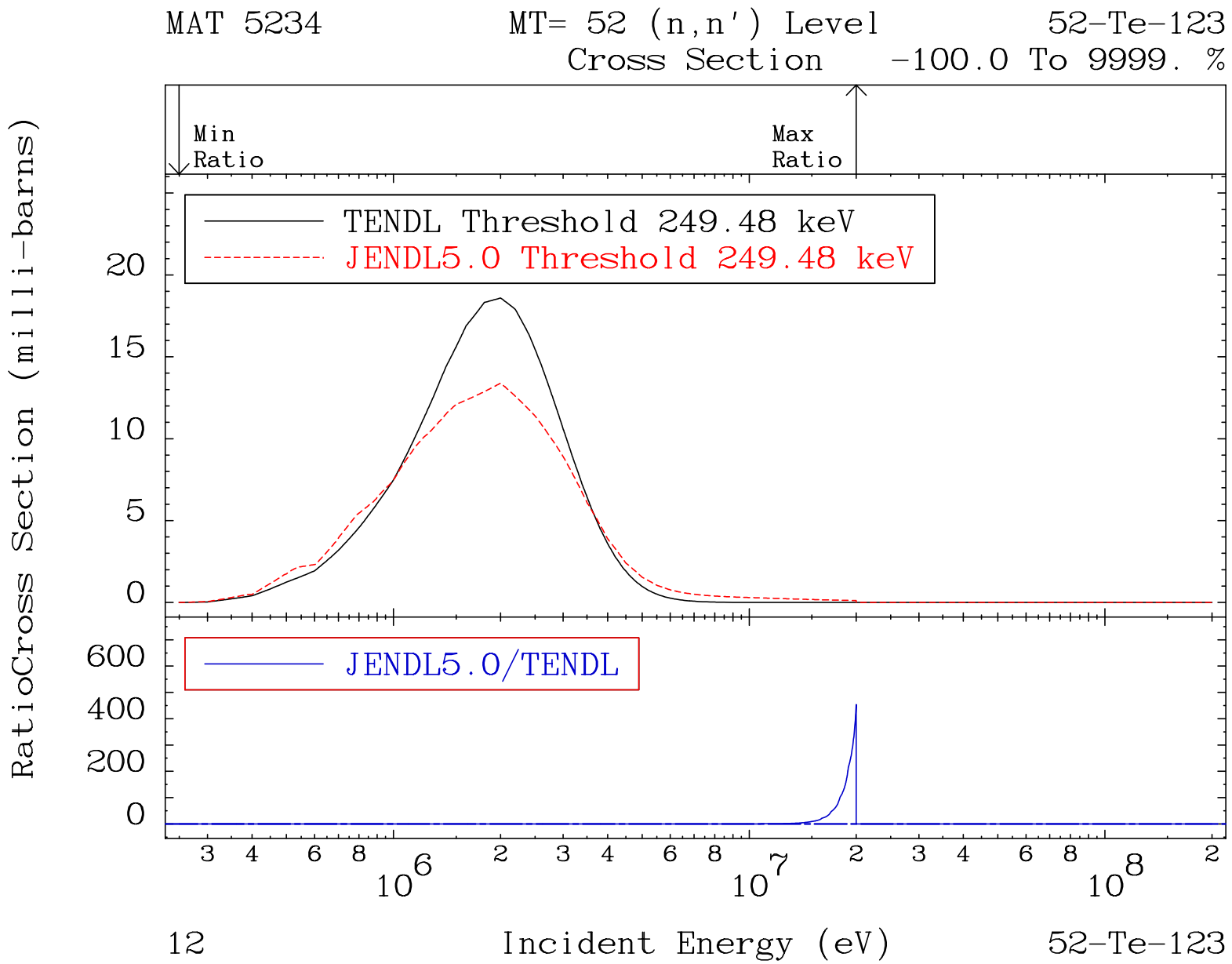

MAT 5234
(n,n') α
Cross Section
52-Te-123
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.5435 MeV
JENDL5.0 Threshold 1.5410 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
52-Te-123
7

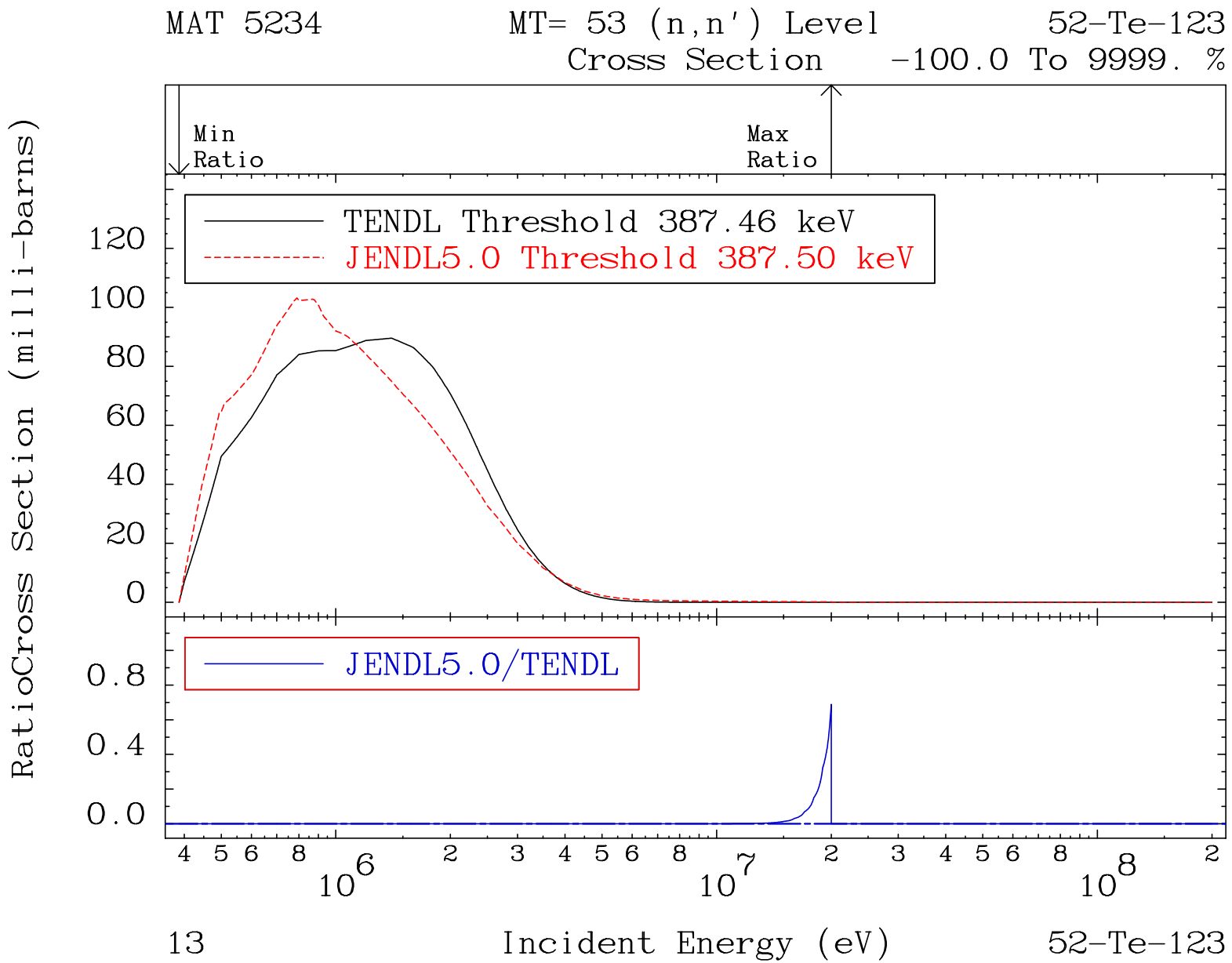

MAT 5234
(n,n') p
Cross Section
52-Te-123
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 8.1924 MeV
JENDL5.0 Threshold 8.1974 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
80
40
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
8
52-Te-123

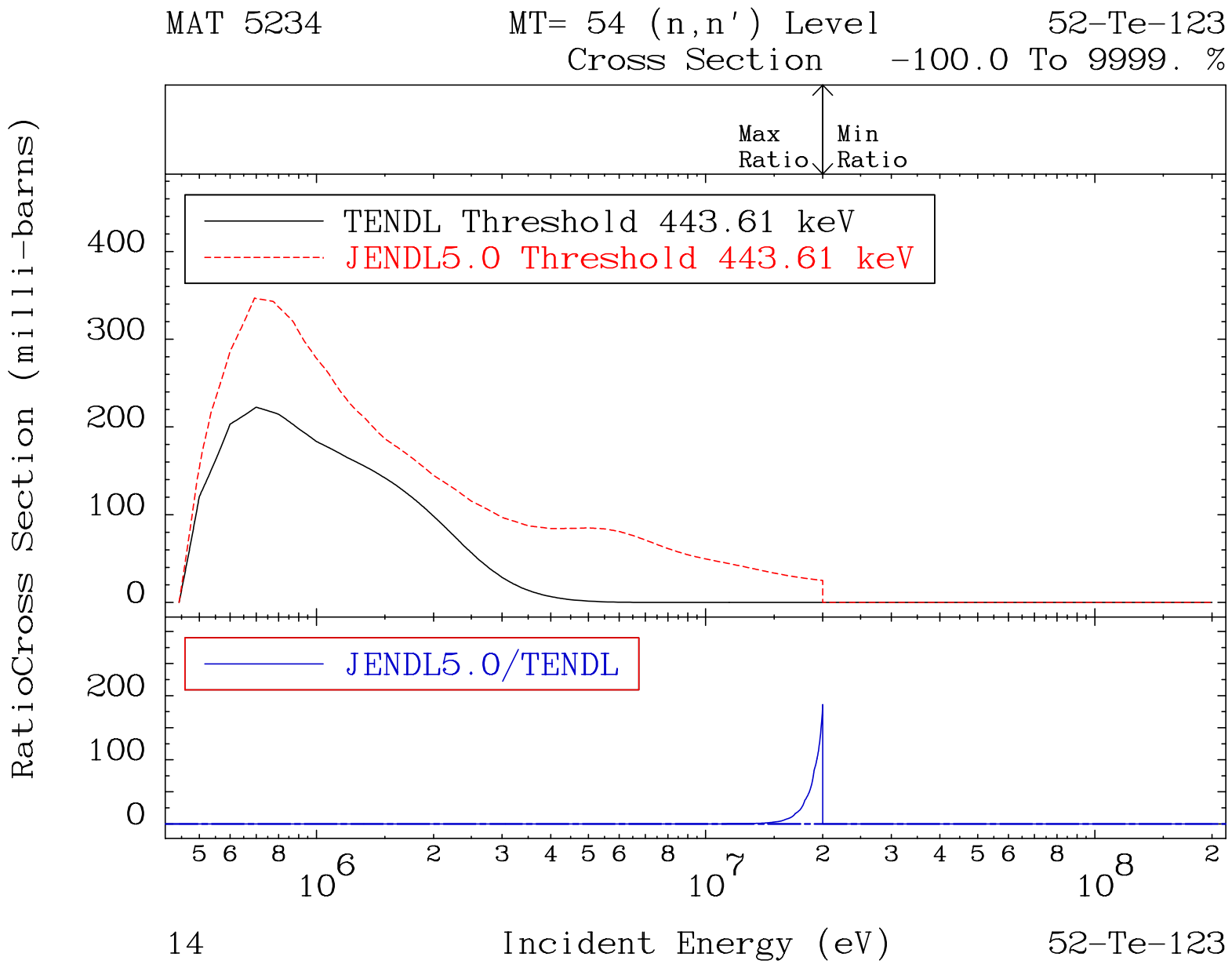

MAT 5234
(n,n') d
Cross Section
52-Te-123
-100.0 To 486.6 %
Max
Ratio
TENDL Threshold 12.812 MeV
JENDL5.0 Threshold 12.817 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
8
4
0
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
52-Te-123

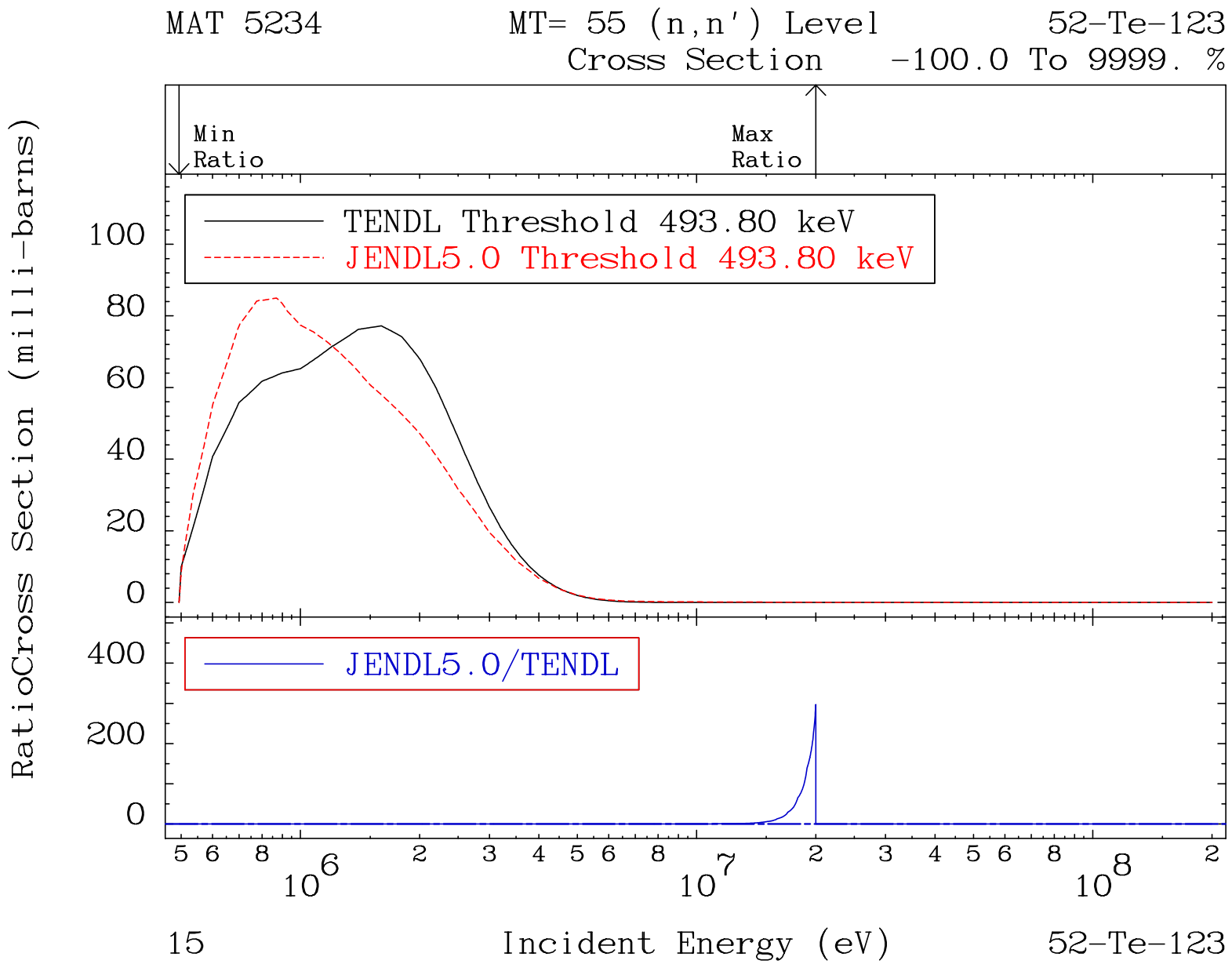

MAT 5234
(n,2n) p
Cross Section
52-Te-123
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 15.055 MeV
JENDL5.0 Threshold 15.060 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
400
200
0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
52-Te-123

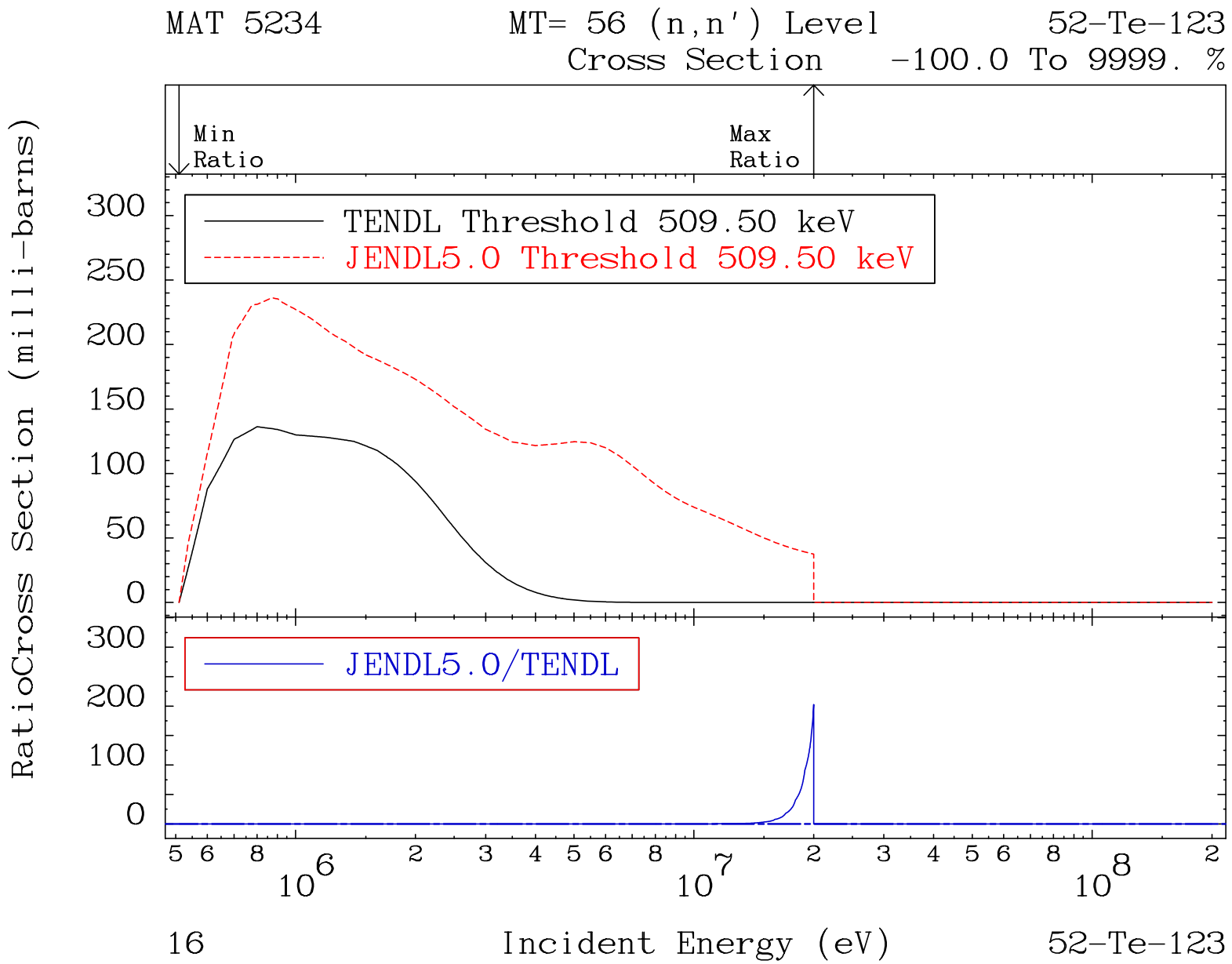

MAT 5234
MT= 51 (n,n') Level
52-Te-123
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 160.30 keV
JENDL5.0 Threshold 160.33 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
11
Incident Energy (eV)
52-Te-123

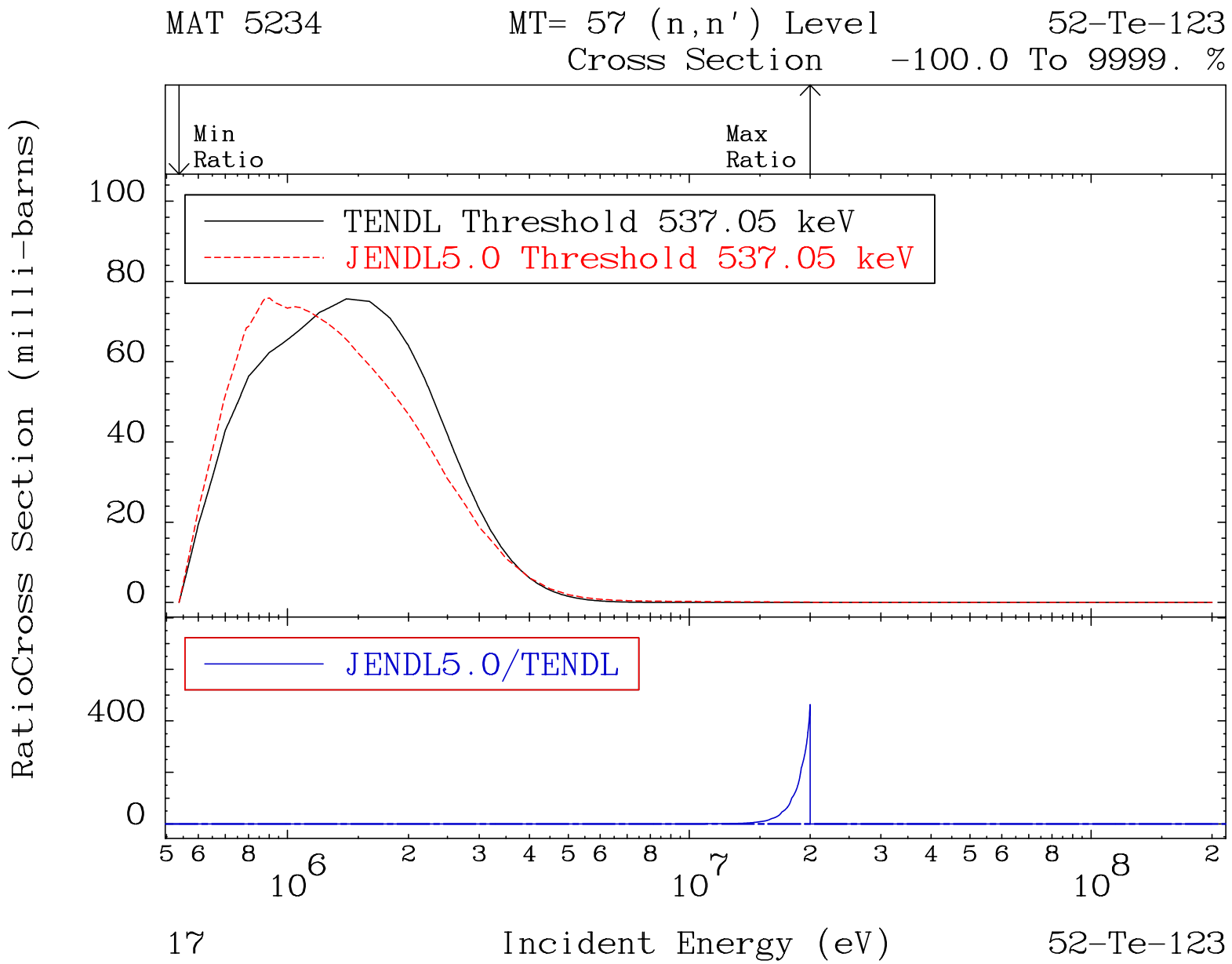

MAT 5234
MT= 52 (n,n') Level
52-Te-123
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 249.48 keV
JENDL5.0 Threshold 249.48 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
600
400
200
0
3 4 6 8 10^6 2 3 4 6 8 10^7 2 3 4 6 8 10^8 2
12
Incident Energy (eV)
52-Te-123

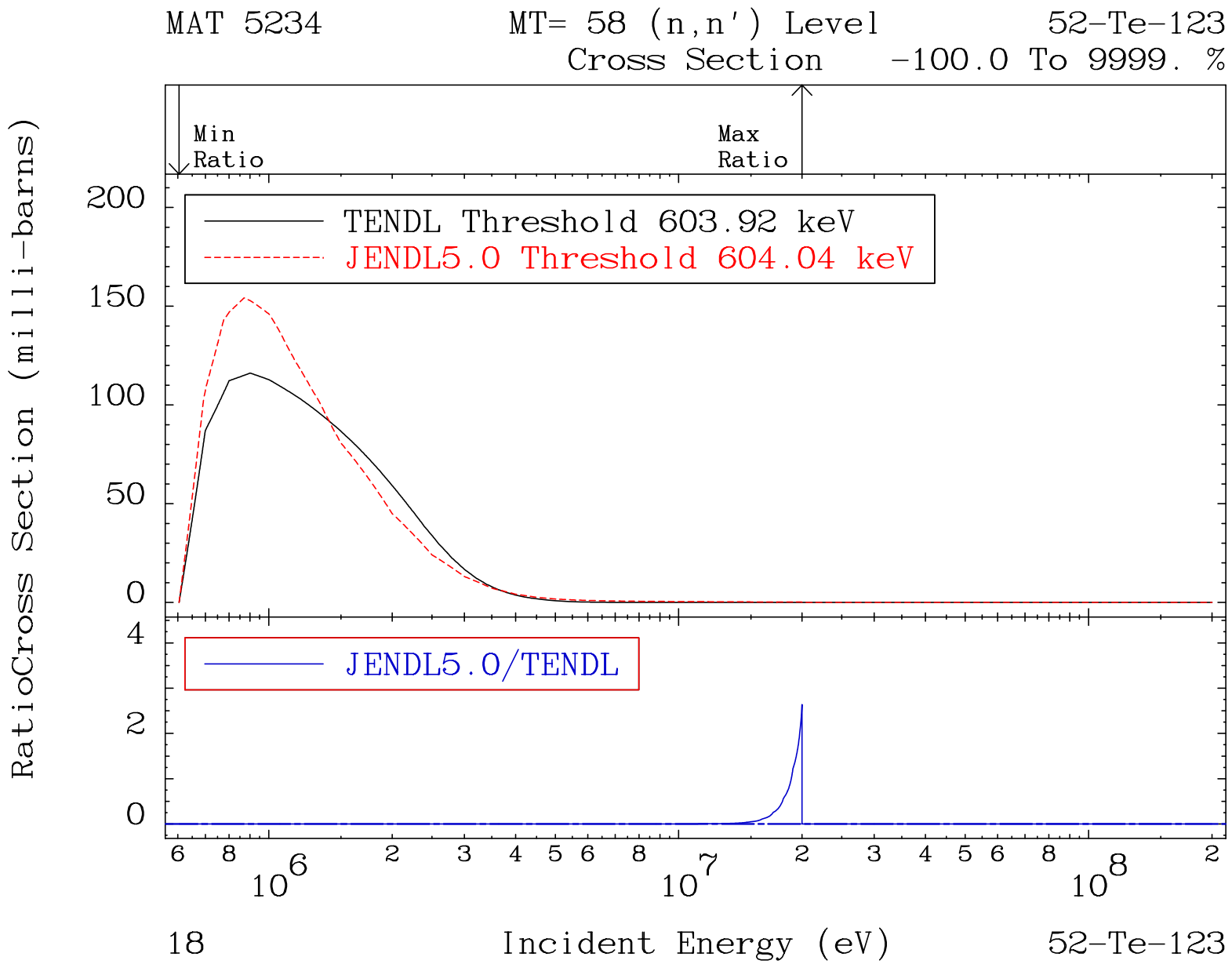

MAT 5234
MT= 53 (n,n') Level
52-Te-123
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 387.46 keV
JENDL5.0 Threshold 387.50 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
0.8
0.4
0.0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
13
Incident Energy (eV)
52-Te-123

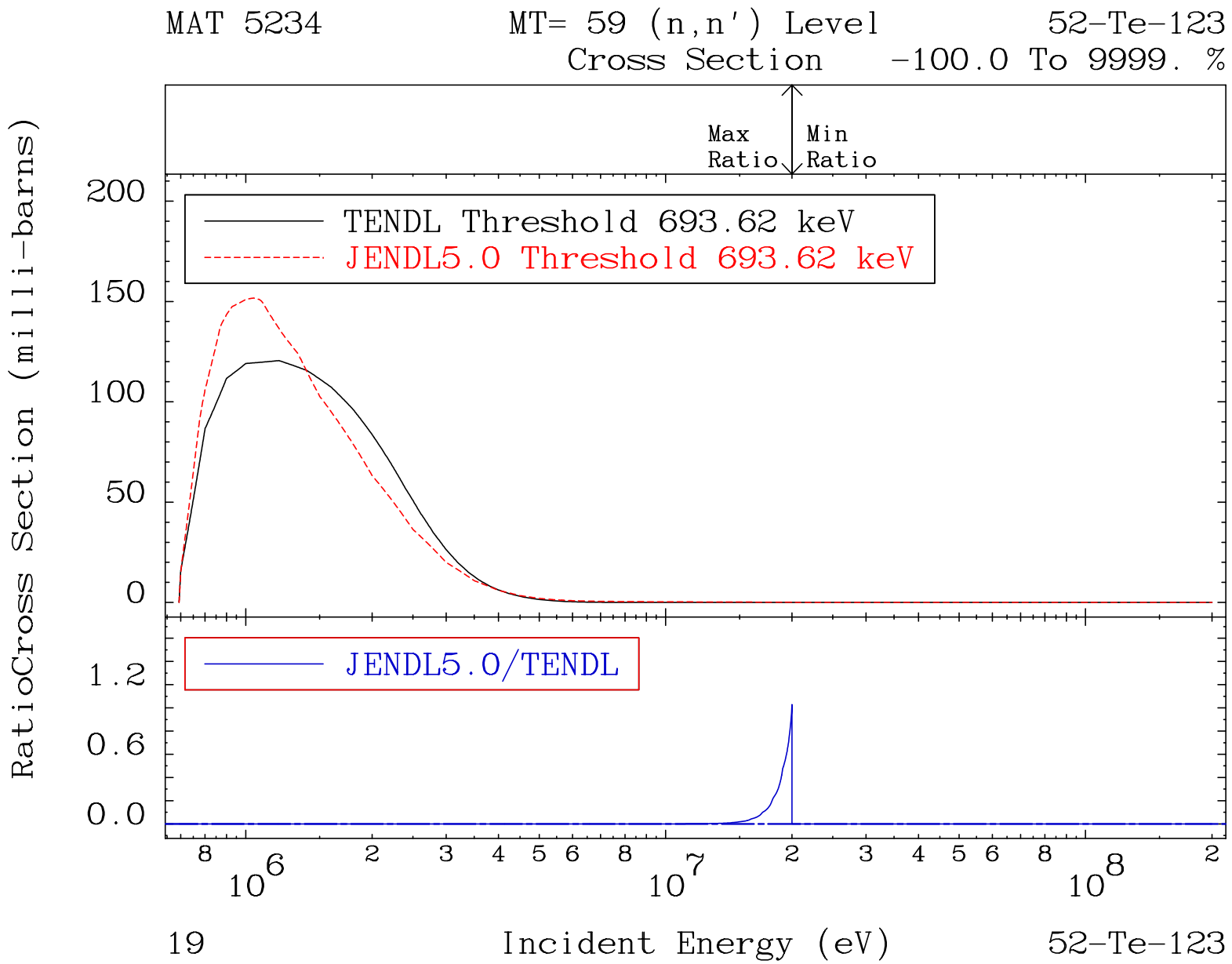

MAT 5234
MT= 54 (n,n') Level
52-Te-123
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 443.61 keV
JENDL5.0 Threshold 443.61 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
200
100
0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
14
Incident Energy (eV)
52-Te-123

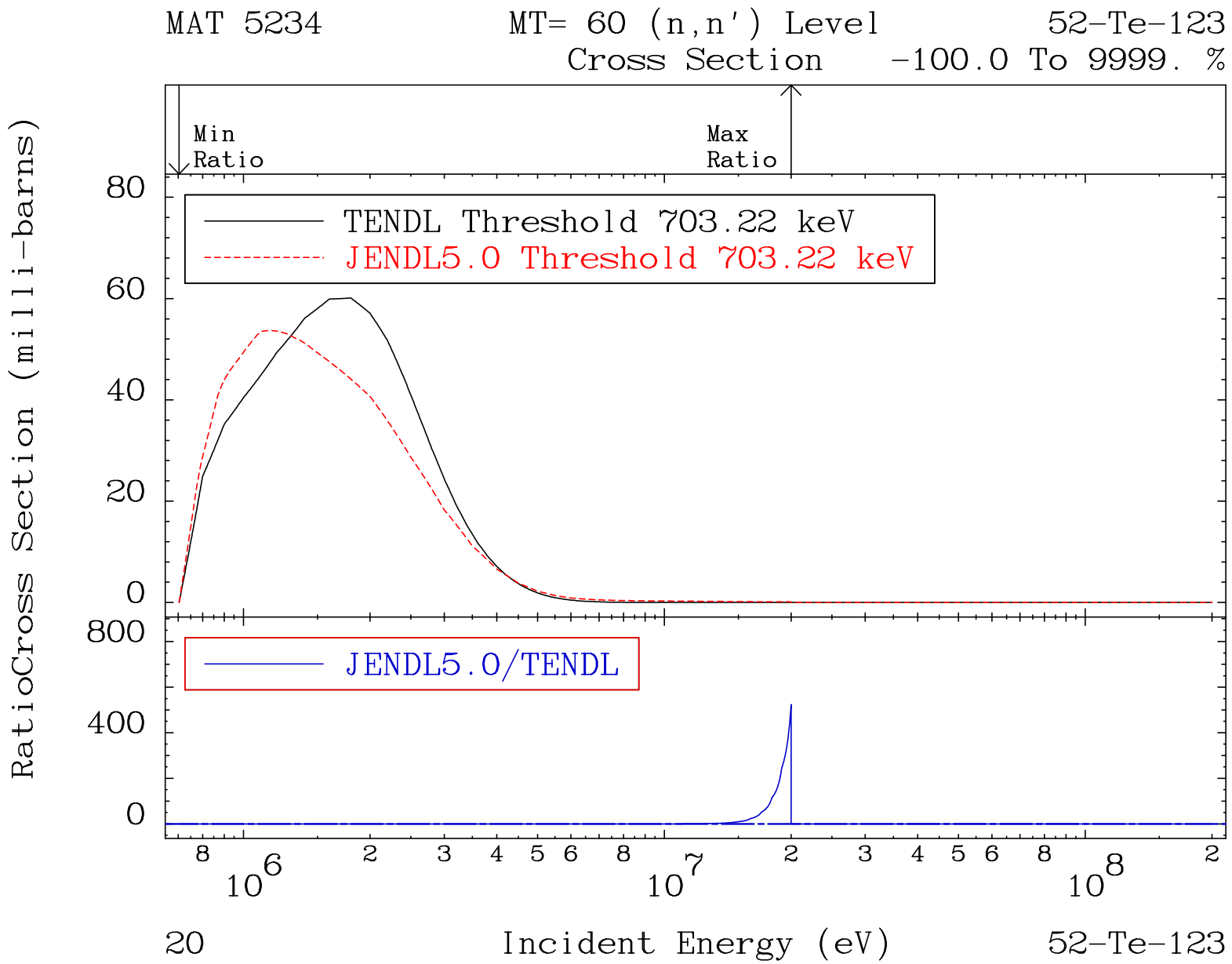

MAT 5234
MT= 55 (n,n') Level
52-Te-123
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 493.80 keV
JENDL5.0 Threshold 493.80 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
400
200
0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
15
52-Te-123

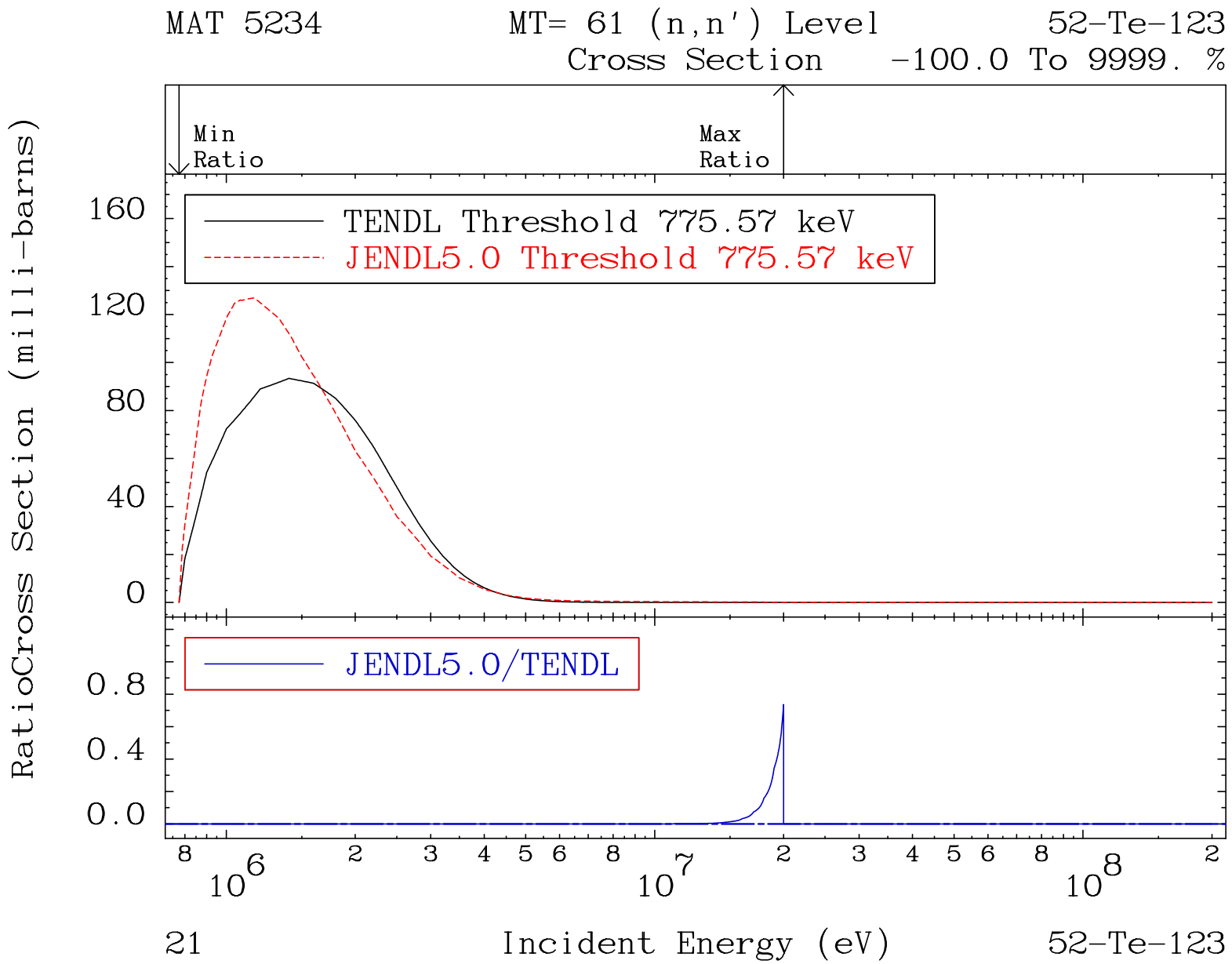

MAT 5234
MT= 56 (n,n') Level
52-Te-123
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 509.50 keV
JENDL5.0 Threshold 509.50 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
300
200
100
0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
16
Incident Energy (eV)
52-Te-123

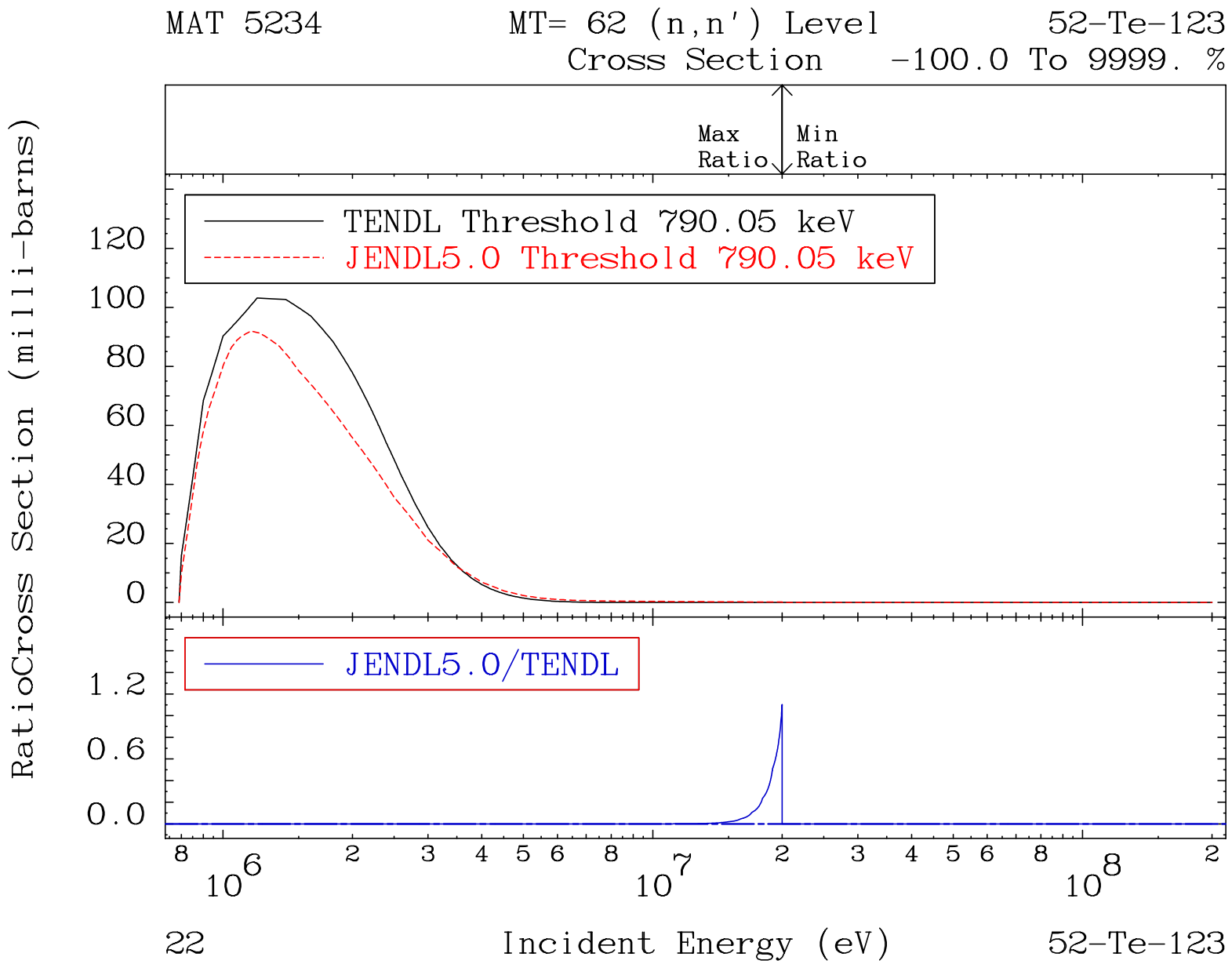

MAT 5234
MT= 57 (n,n') Level
52-Te-123
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 537.05 keV
JENDL5.0 Threshold 537.05 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
400
0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
17
Incident Energy (eV)
52-Te-123

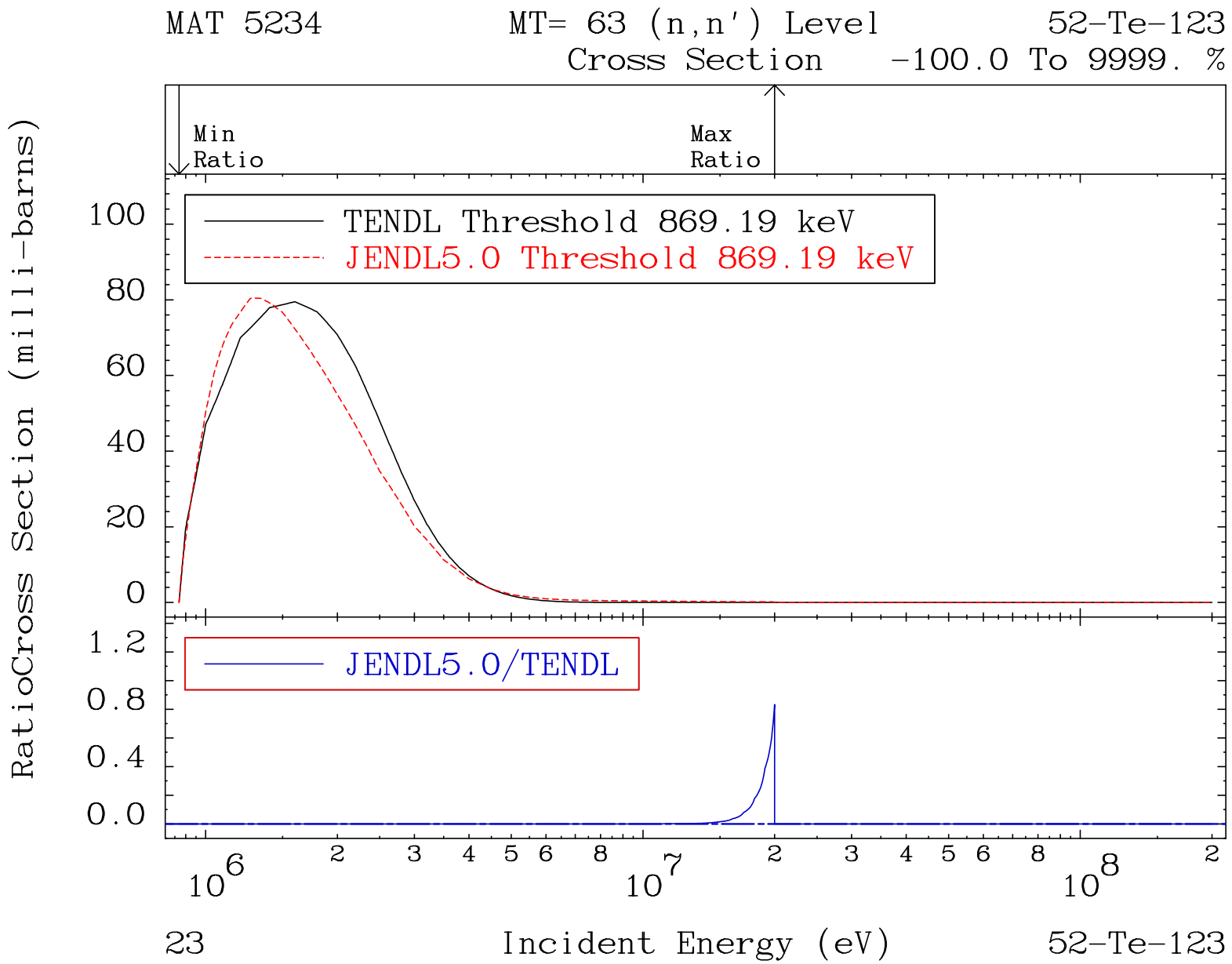

MAT 5234
MT= 58 (n,n') Level
52-Te-123
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 603.92 keV
JENDL5.0 Threshold 604.04 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
4
2
0
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
18
Incident Energy (eV)
52-Te-123

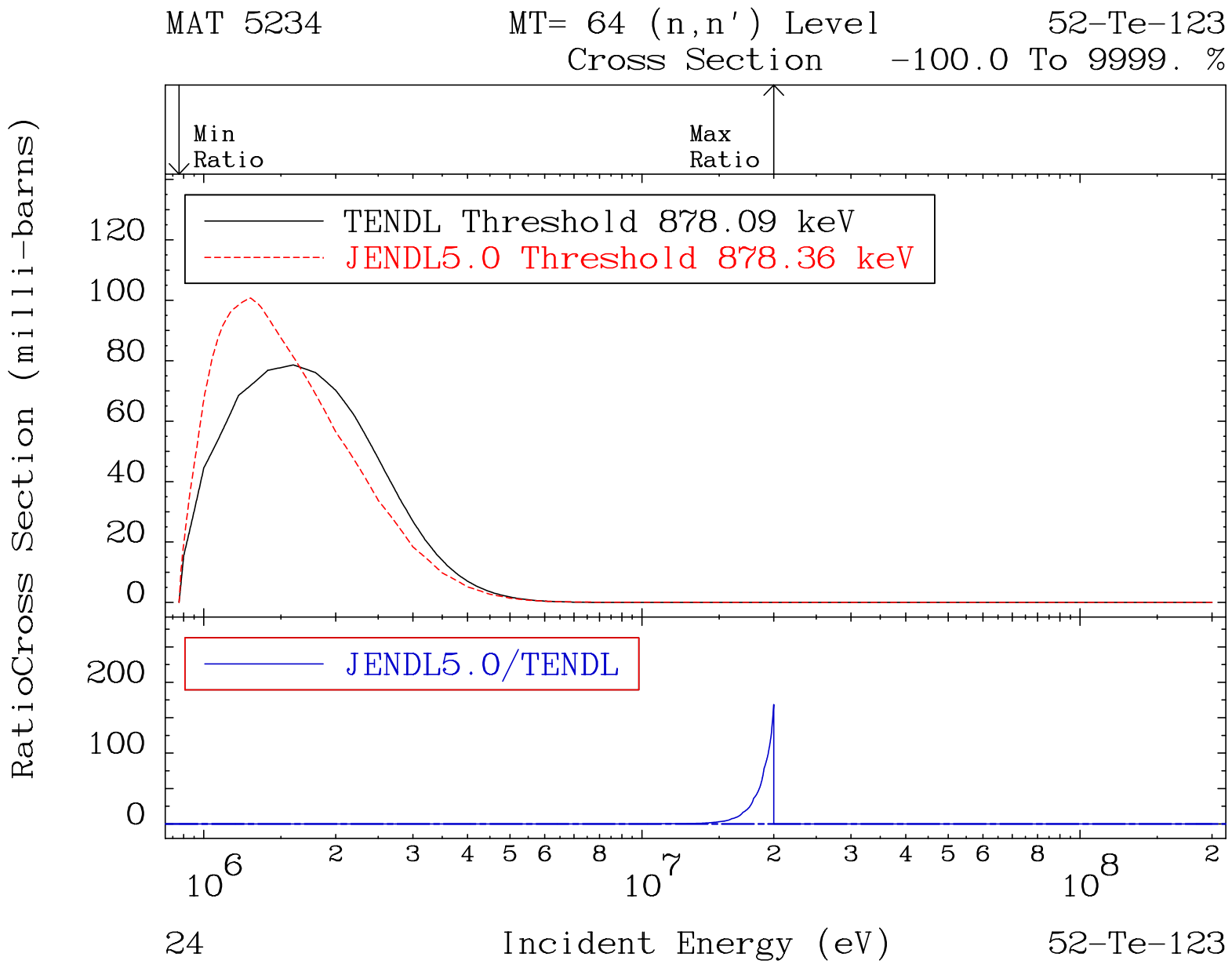

MAT 5234
MT= 59 (n,n') Level
52-Te-123
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 693.62 keV
JENDL5.0 Threshold 693.62 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.2
0.6
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
19
Incident Energy (eV)
52-Te-123

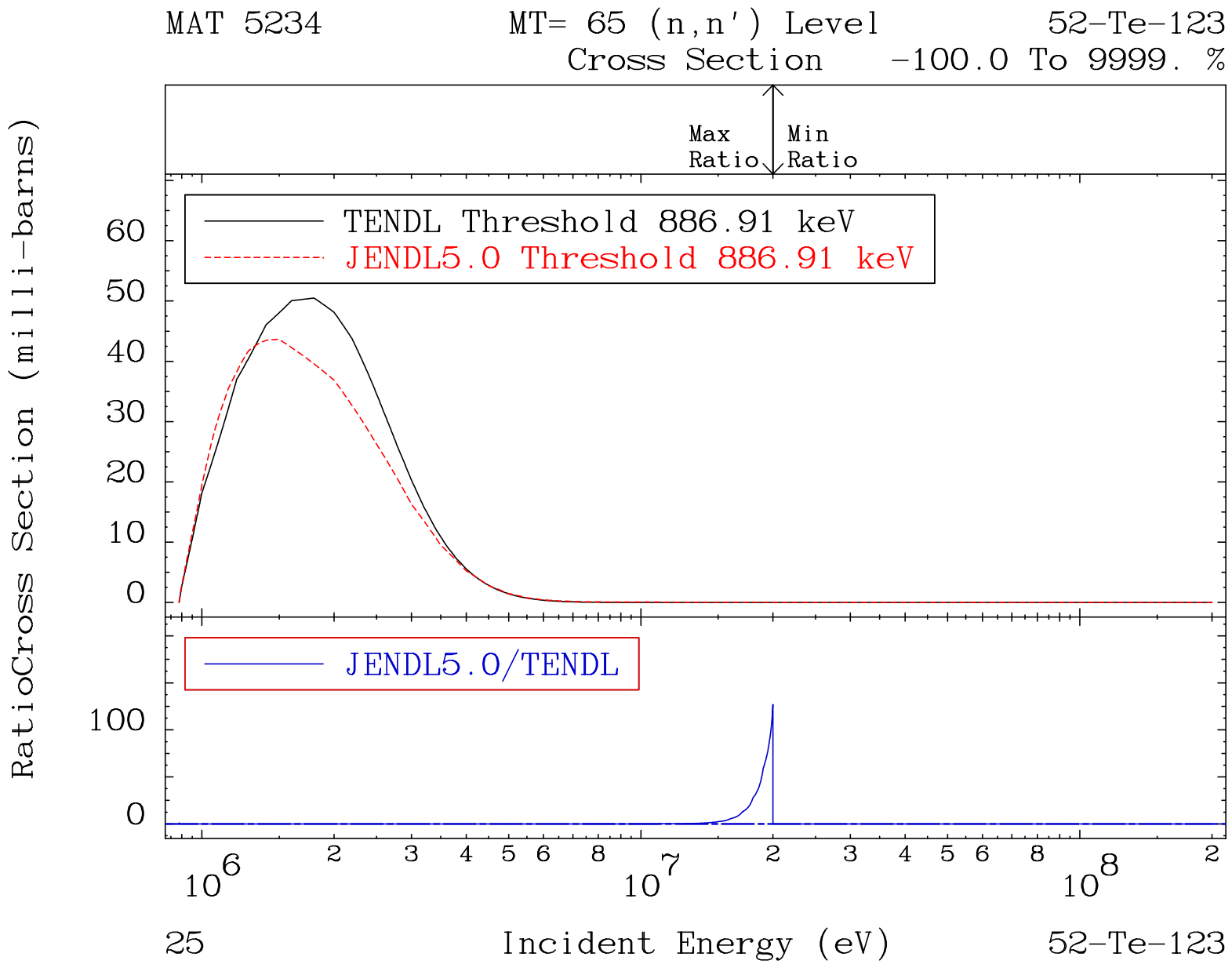

MAT 5234
MT= 60 (n,n') Level
52-Te-123
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 703.22 keV
JENDL5.0 Threshold 703.22 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
800
400
0
8
2
3
4
5
6
8
2
3
4
5
6
8
2
10^6
10^7
10^8
20
Incident Energy (eV)
52-Te-123

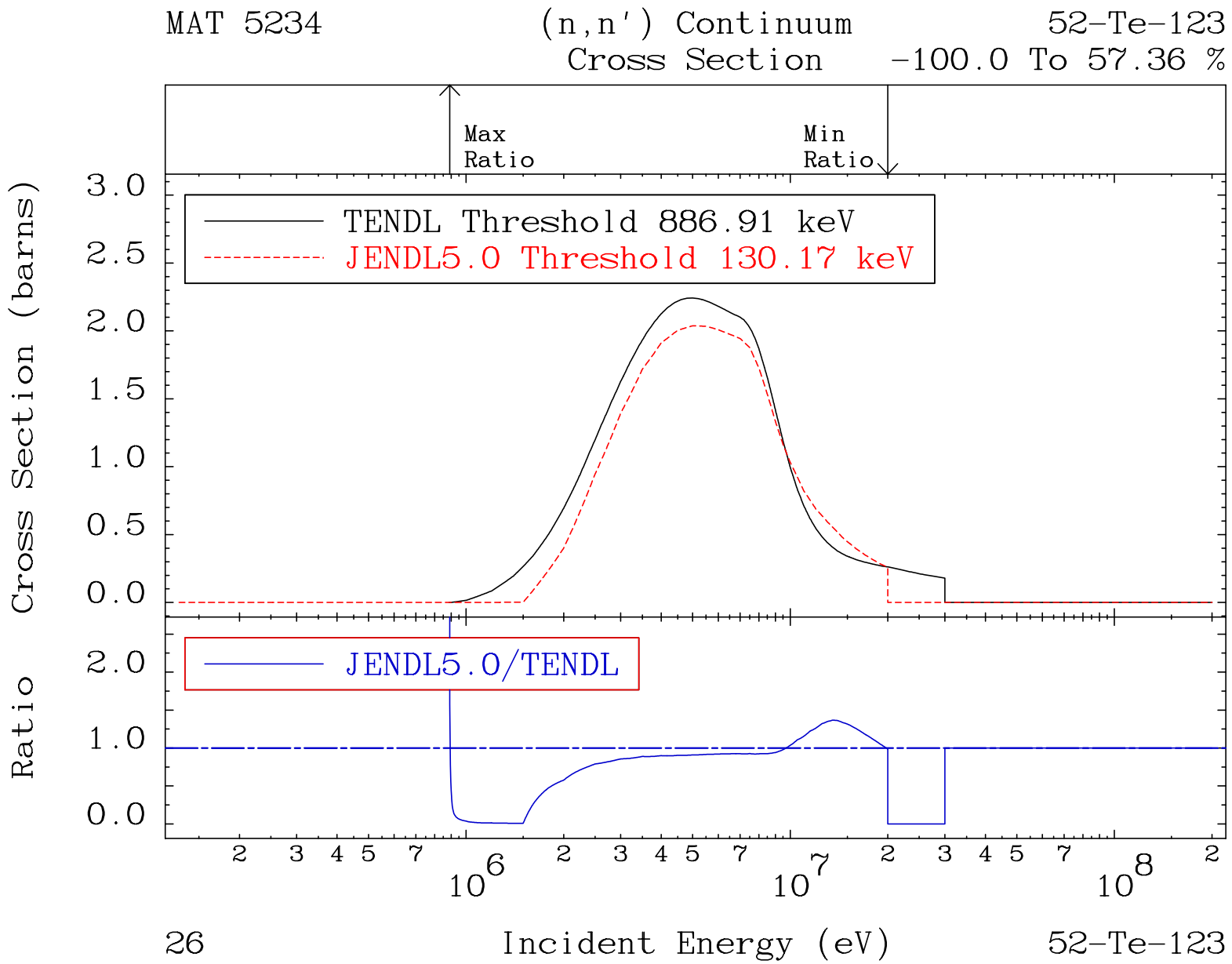

MAT 5234
MT= 61 (n,n') Level
52-Te-123
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 775.57 keV
JENDL5.0 Threshold 775.57 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
0.8
0.4
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
21
Incident Energy (eV)
52-Te-123

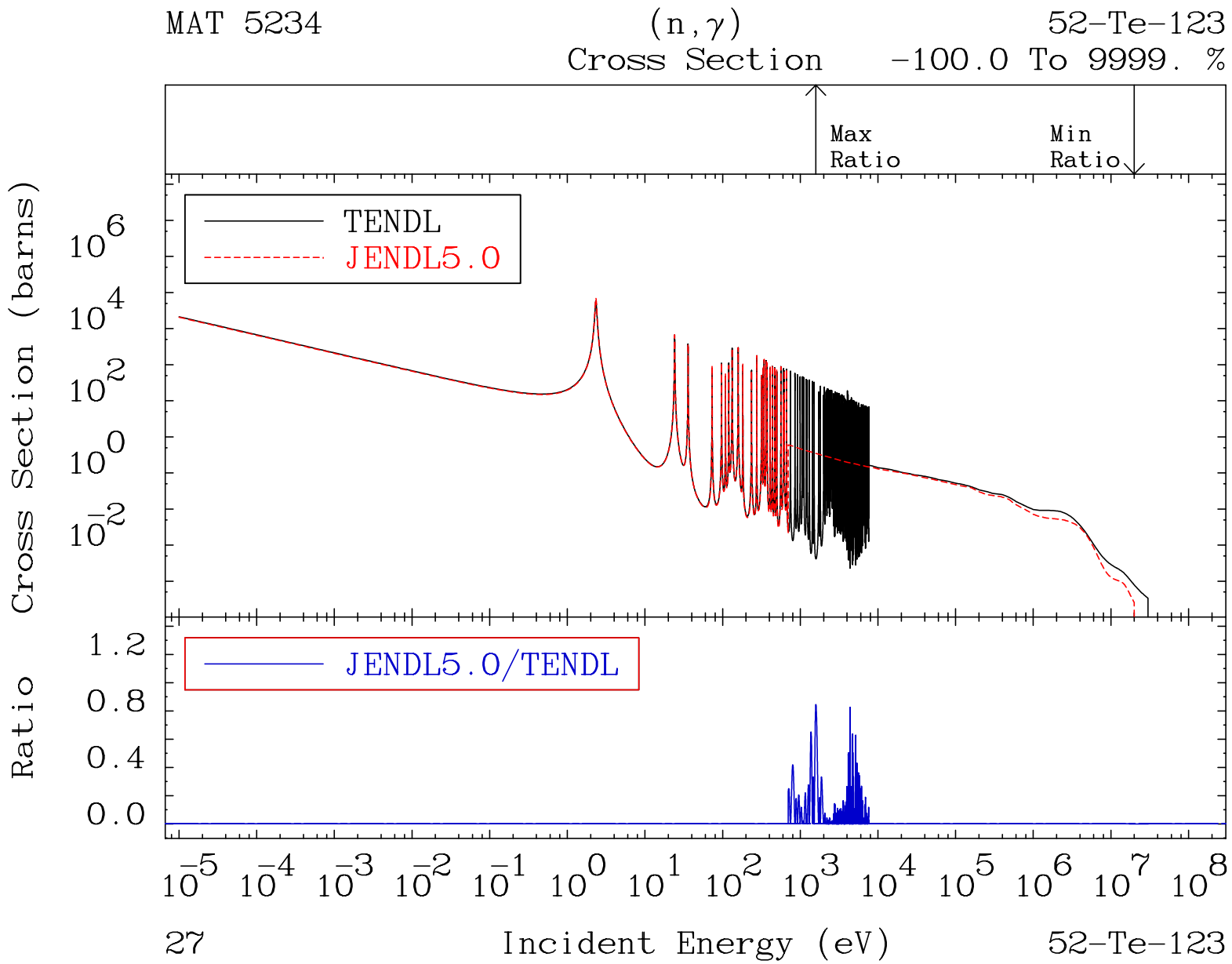

MAT 5234
MT= 62 (n,n') Level
52-Te-123
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 790.05 keV
JENDL5.0 Threshold 790.05 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
1.2
0.6
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
22
Incident Energy (eV)
52-Te-123

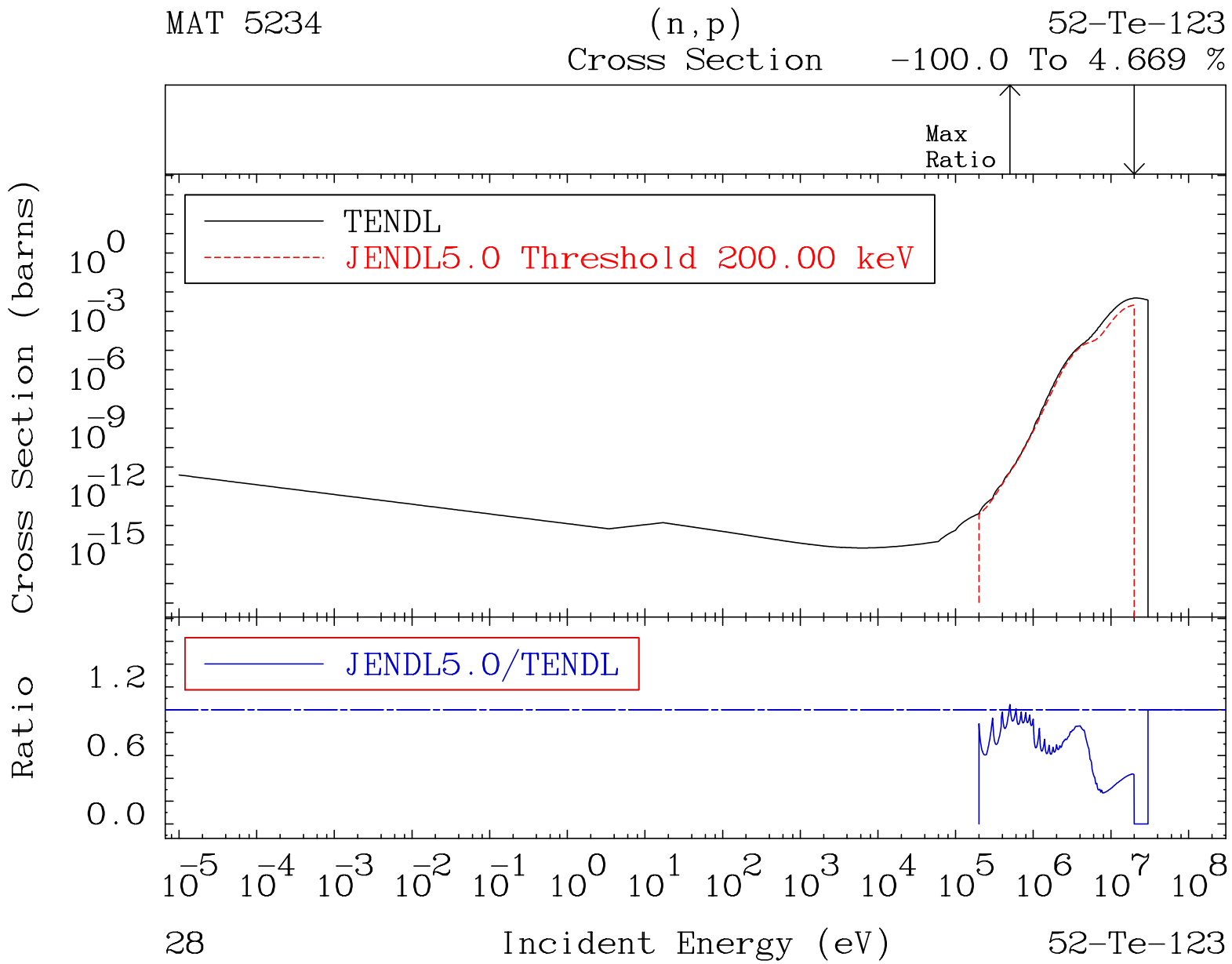

MAT 5234
MT= 63 (n,n') Level
52-Te-123
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 869.19 keV
JENDL5.0 Threshold 869.19 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.2
0.8
0.4
0.0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
23
Incident Energy (eV)
52-Te-123

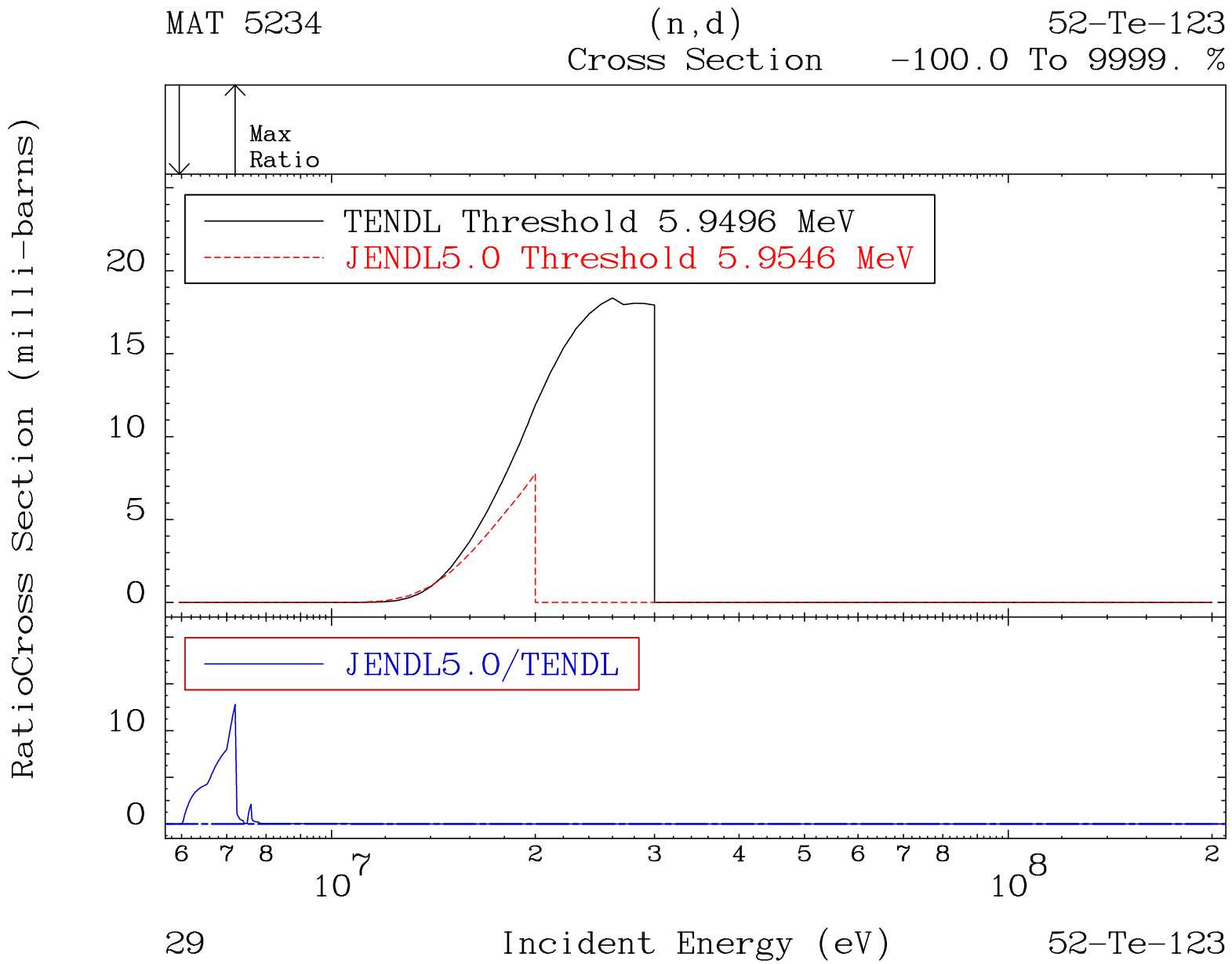

MAT 5234
MT= 64 (n,n') Level
52-Te-123
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 878.09 keV
JENDL5.0 Threshold 878.36 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
200
100
0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
24
Incident Energy (eV)
52-Te-123

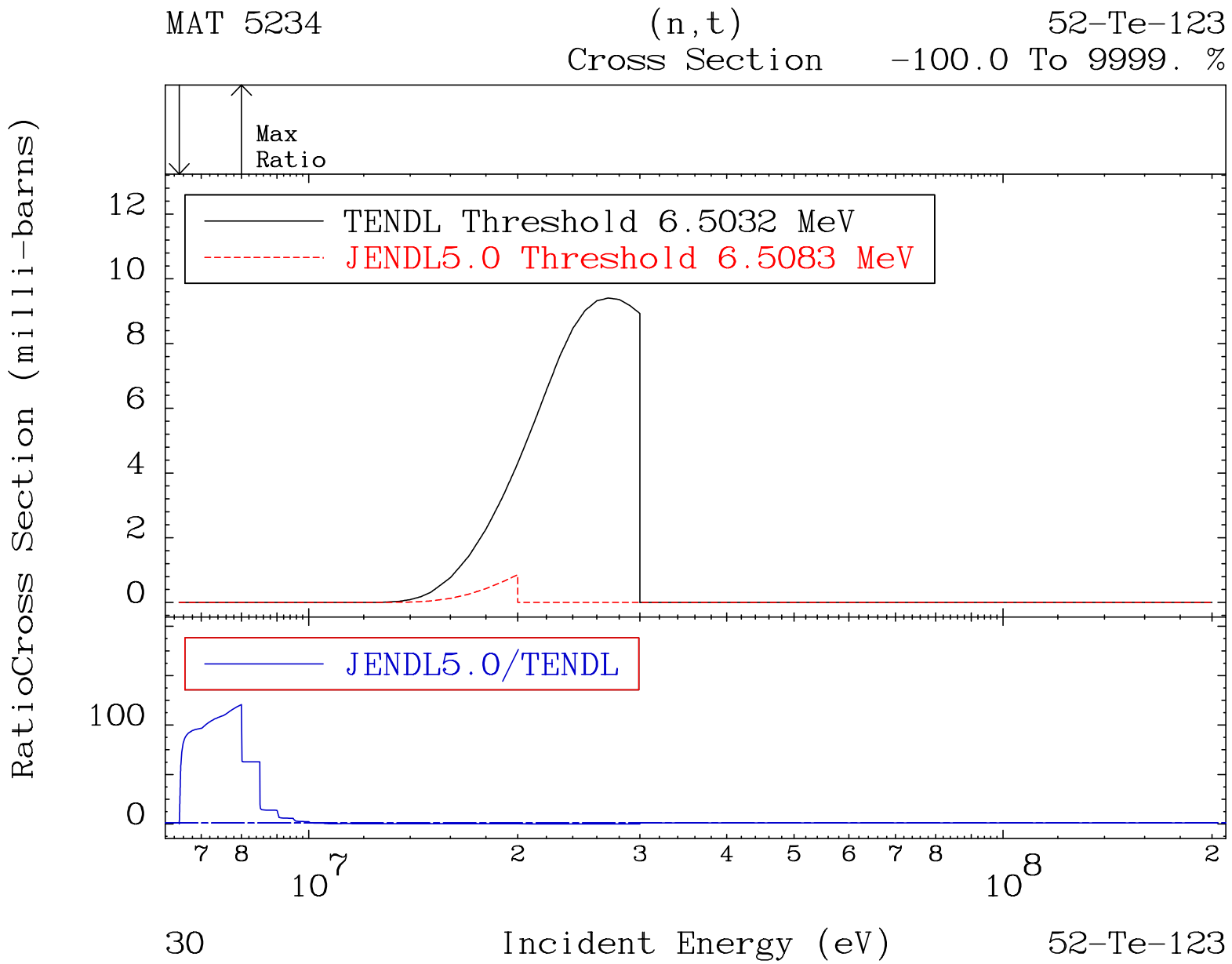

MAT 5234
MT= 65 (n,n') Level
52-Te-123
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 886.91 keV
JENDL5.0 Threshold 886.91 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
100
0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
25
Incident Energy (eV)
52-Te-123

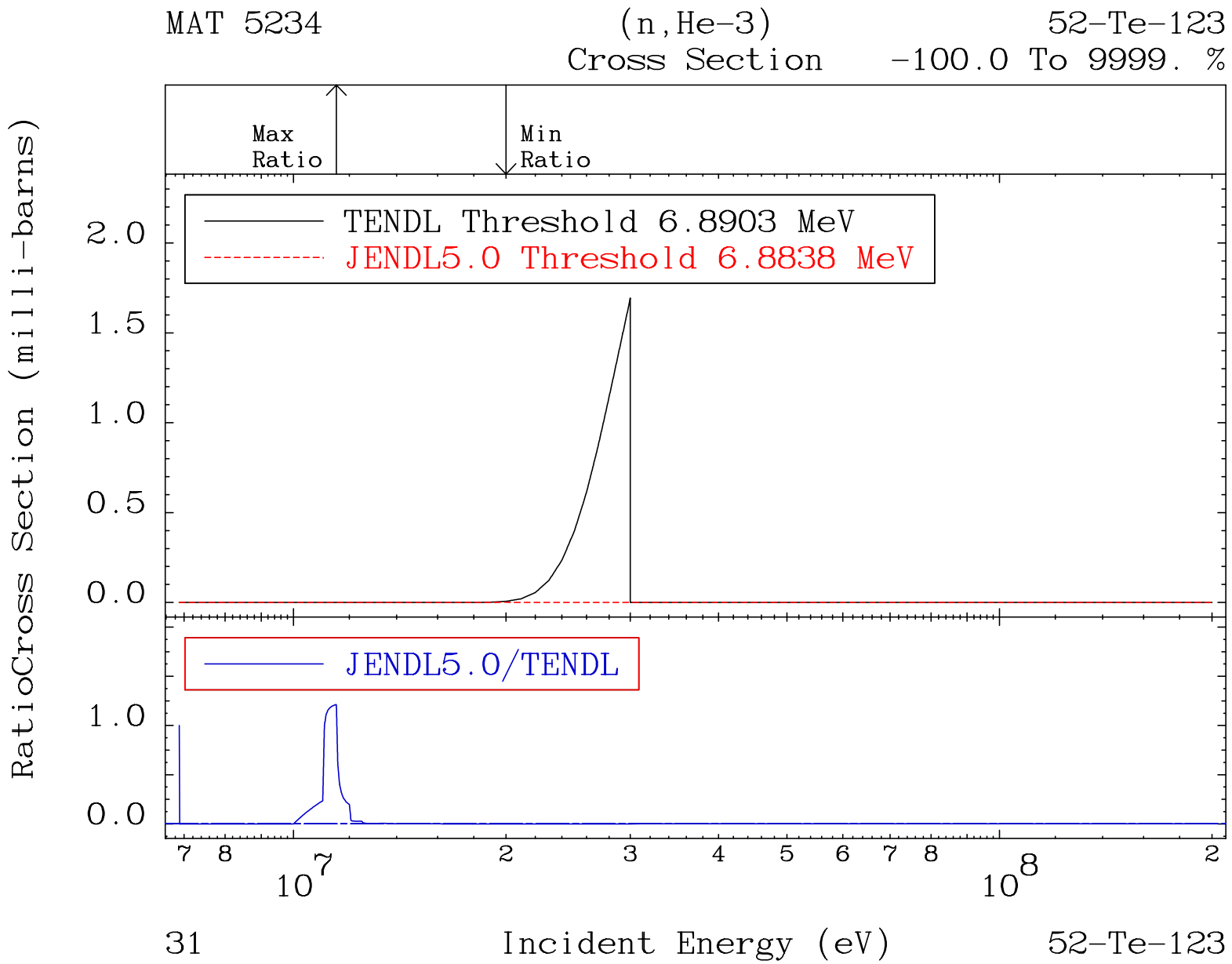

MAT 5234
(n,n') Continuum
Cross Section
52-Te-123
-100.0 To 57.36 %
Max
Ratio
Min
Ratio
TENDL Threshold 886.91 keV
JENDL5.0 Threshold 130.17 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
26
52-Te-123

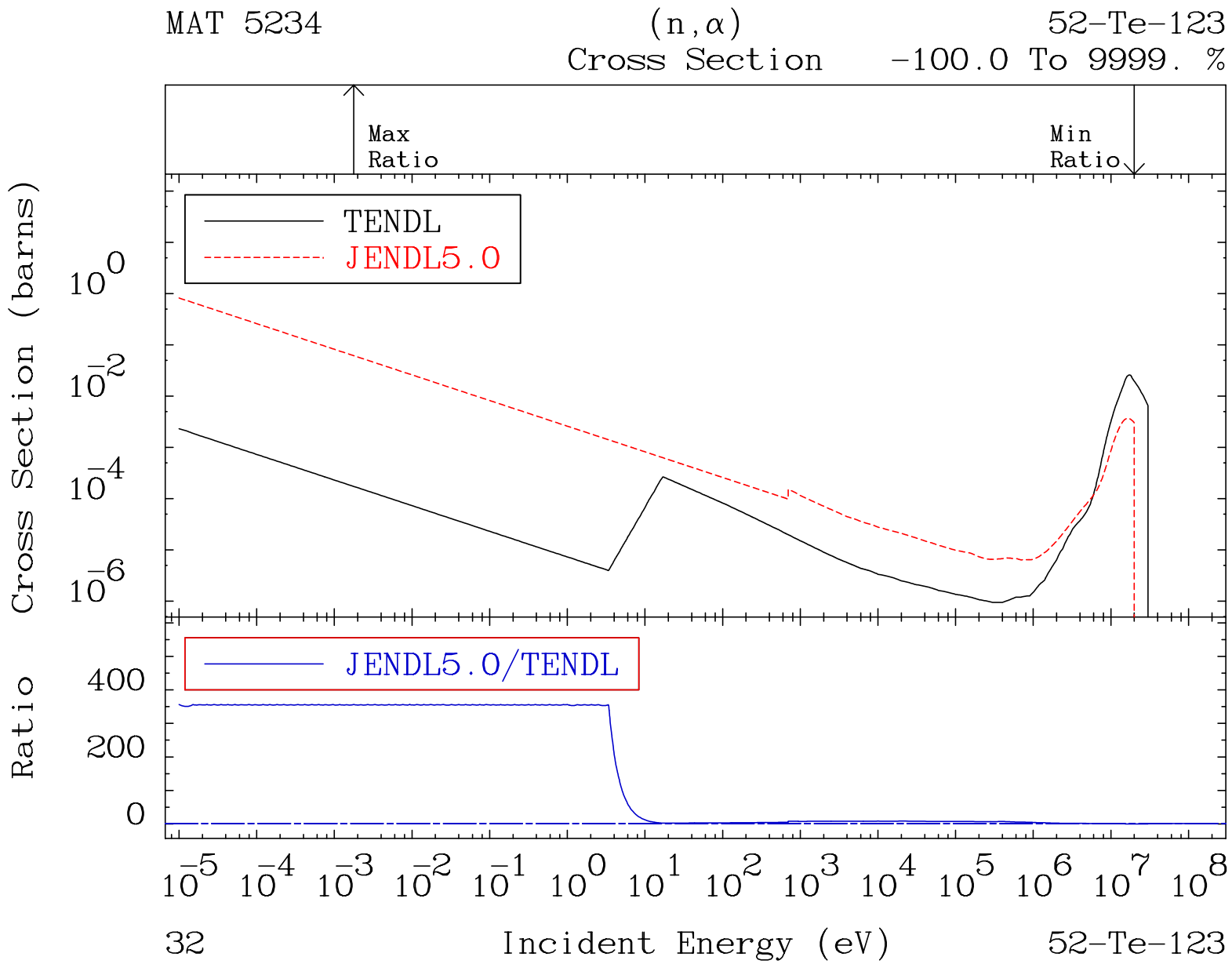

MAT 5234
(n,γ)
Cross Section
52-Te-123
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^6
10^4
10^2
10^0
10^-2
JENDL5.0/TENDL
Ratio
1.2
0.8
0.4
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
27
Incident Energy (eV)
52-Te-123

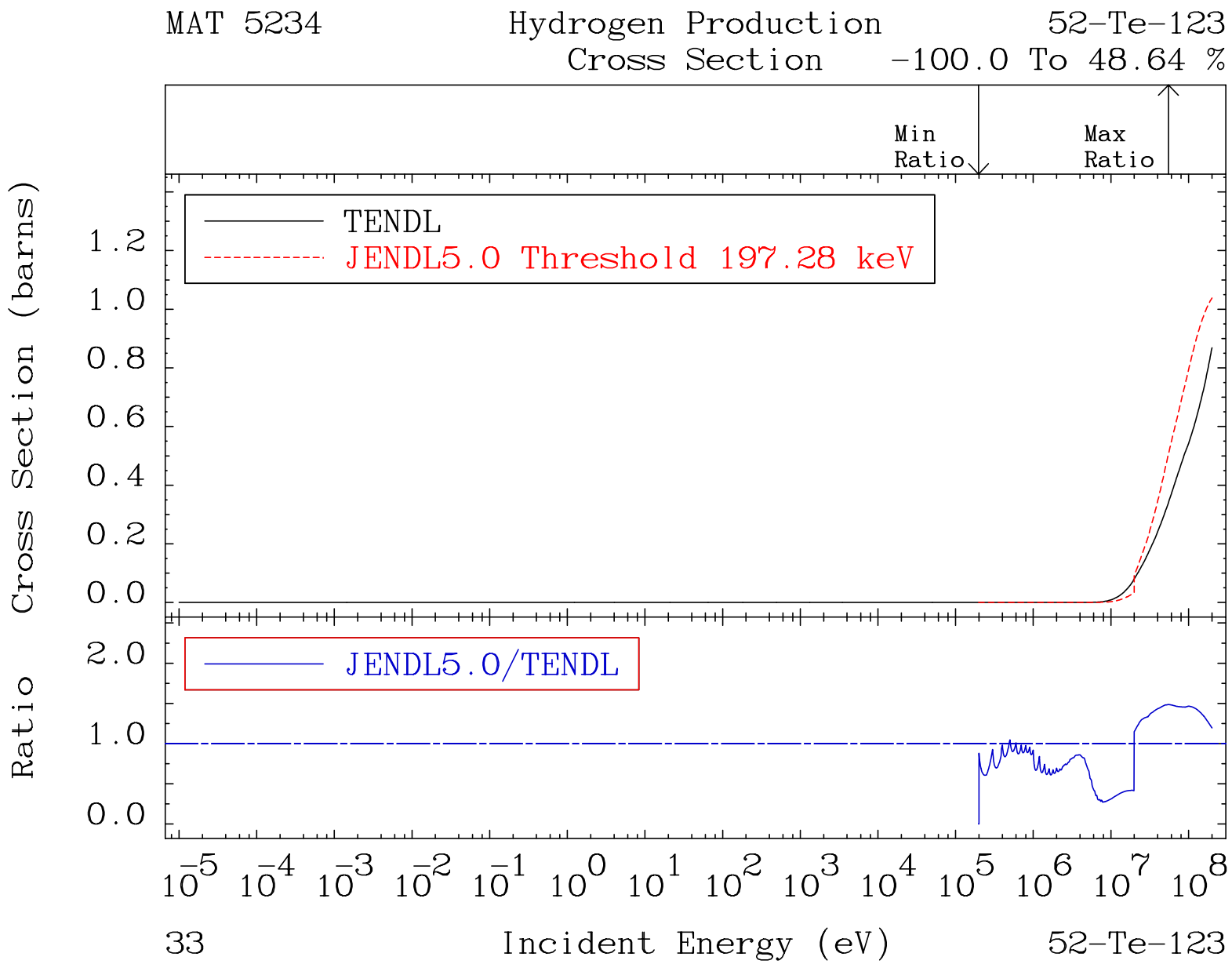

MAT 5234
(n,p)
Cross Section
52-Te-123
-100.0 To 4.669 %
Max
Ratio
TENDL
JENDL5.0 Threshold 200.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
28
52-Te-123

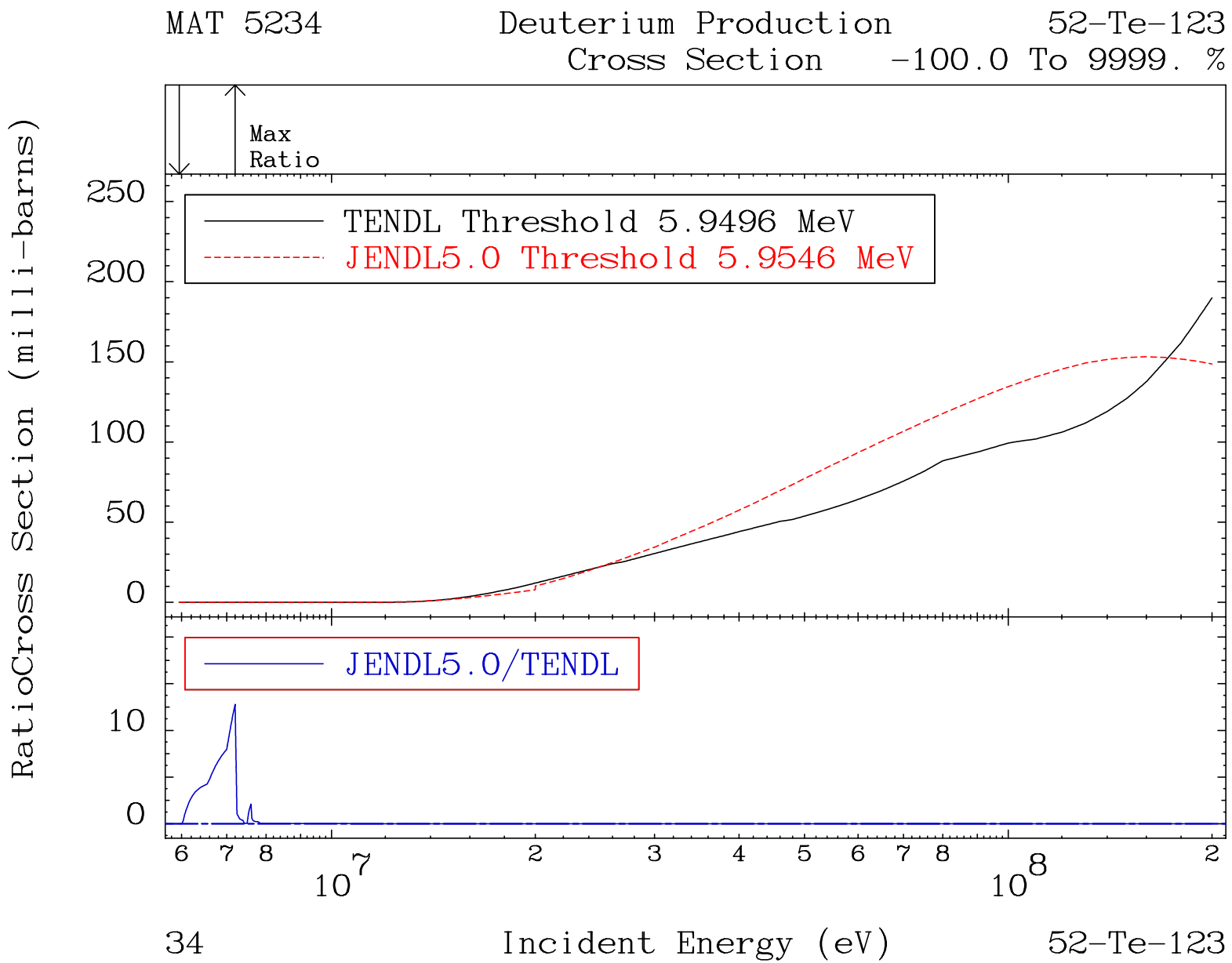

MAT 5234
(n,d)
Cross Section
52-Te-123
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 5.9496 MeV
JENDL5.0 Threshold 5.9546 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
10
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
52-Te-123

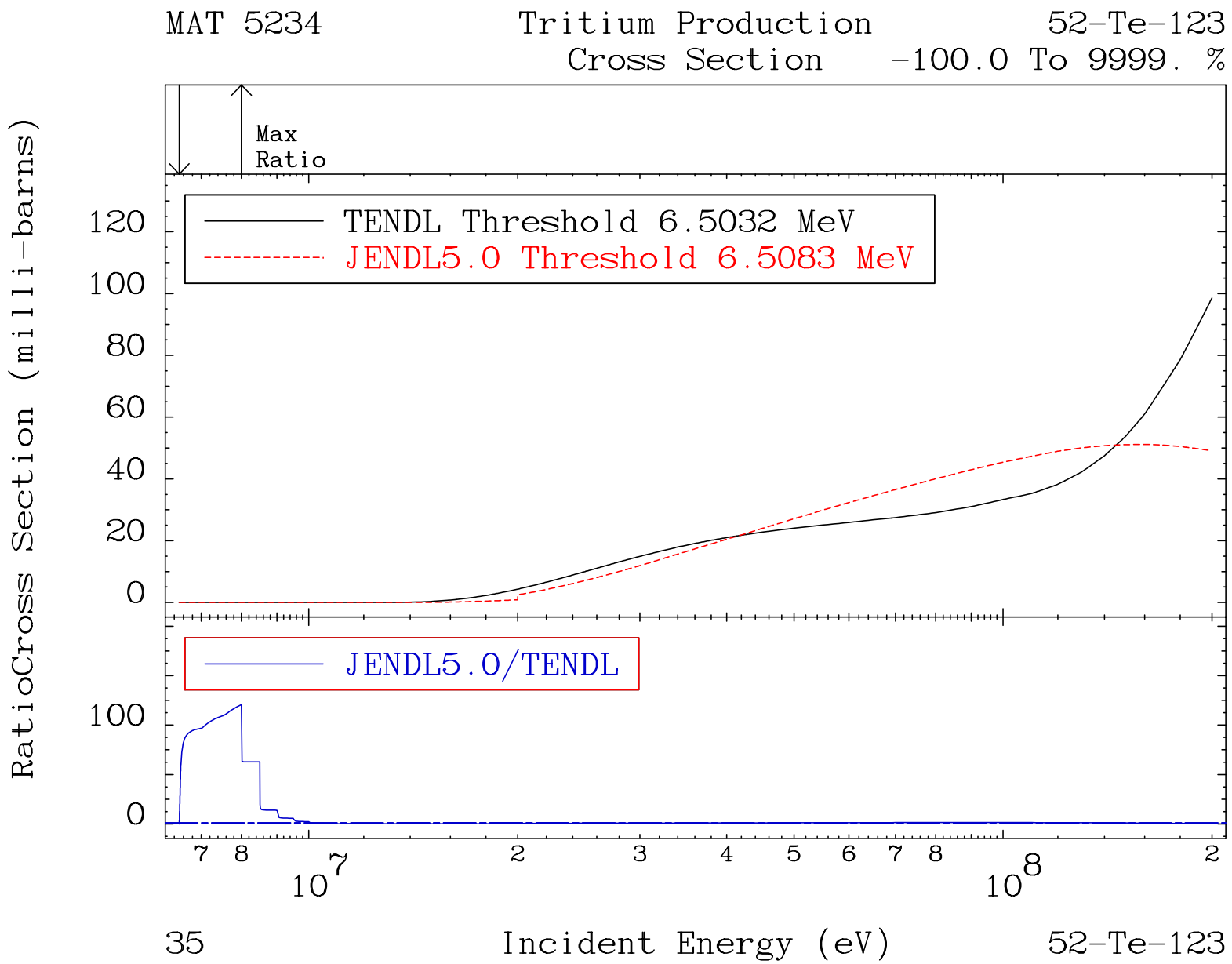

MAT 5234
(n,t)
52-Te-123
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 6.5032 MeV
JENDL5.0 Threshold 6.5083 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
12
10
8
6
4
2
0
100
0
7 8
10^7
2 3 4 5 6 7 8
10^8
2
30
Incident Energy (eV)
52-Te-123

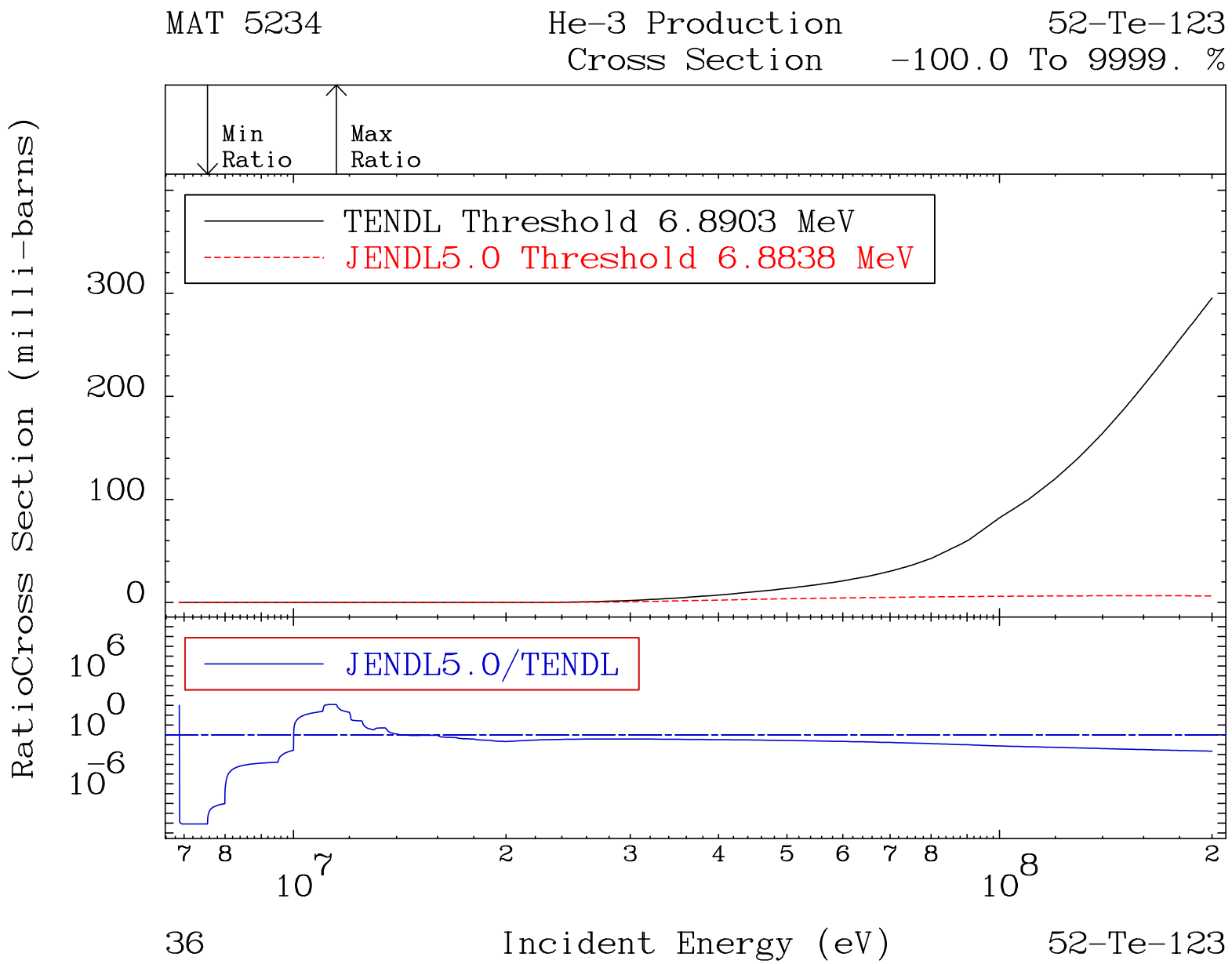

MAT 5234
(n,He-3)
Cross Section
52-Te-123
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.8903 MeV
JENDL5.0 Threshold 6.8838 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
1.0
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
52-Te-123

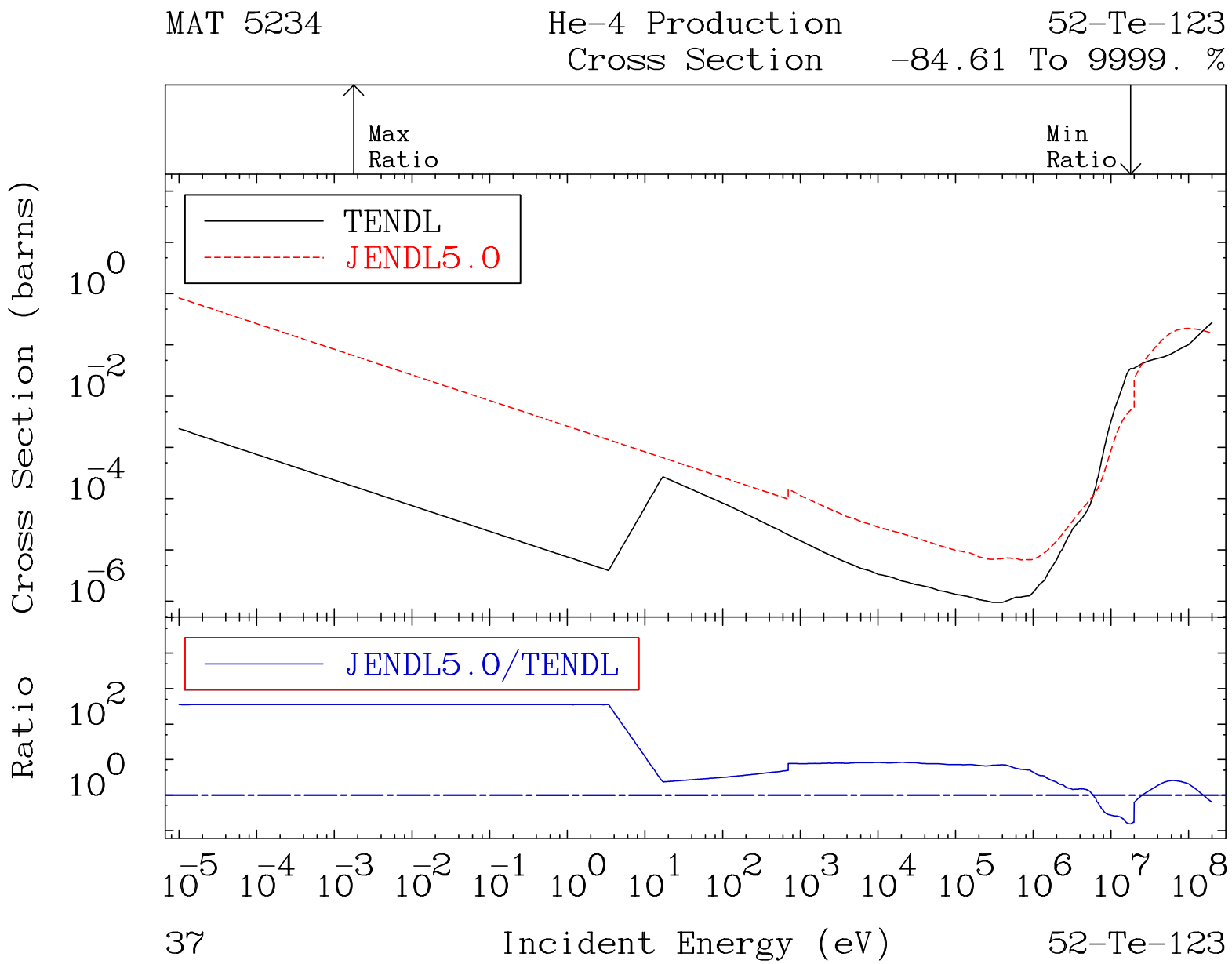

MAT 5234
(n,α)
Cross Section
52-Te-123
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^0
10^-2
10^-4
10^-6
JENDL5.0/TENDL
Ratio
400
200
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
32
Incident Energy (eV)
52-Te-123

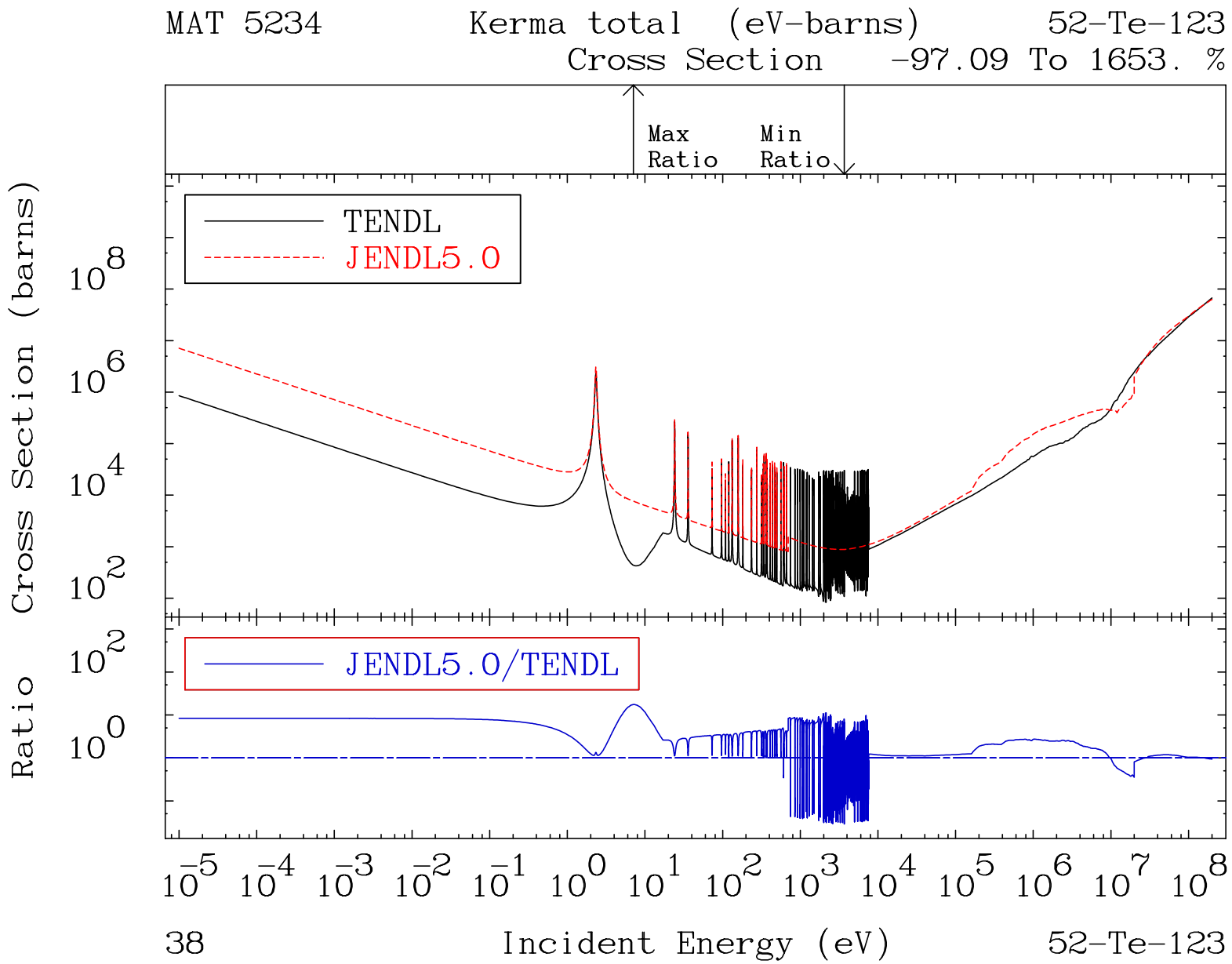

MAT 5234
Hydrogen Production
52-Te-123
Cross Section
-100.0 To 48.64 %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 197.28 keV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
2.0
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
33
Incident Energy (eV)
52-Te-123

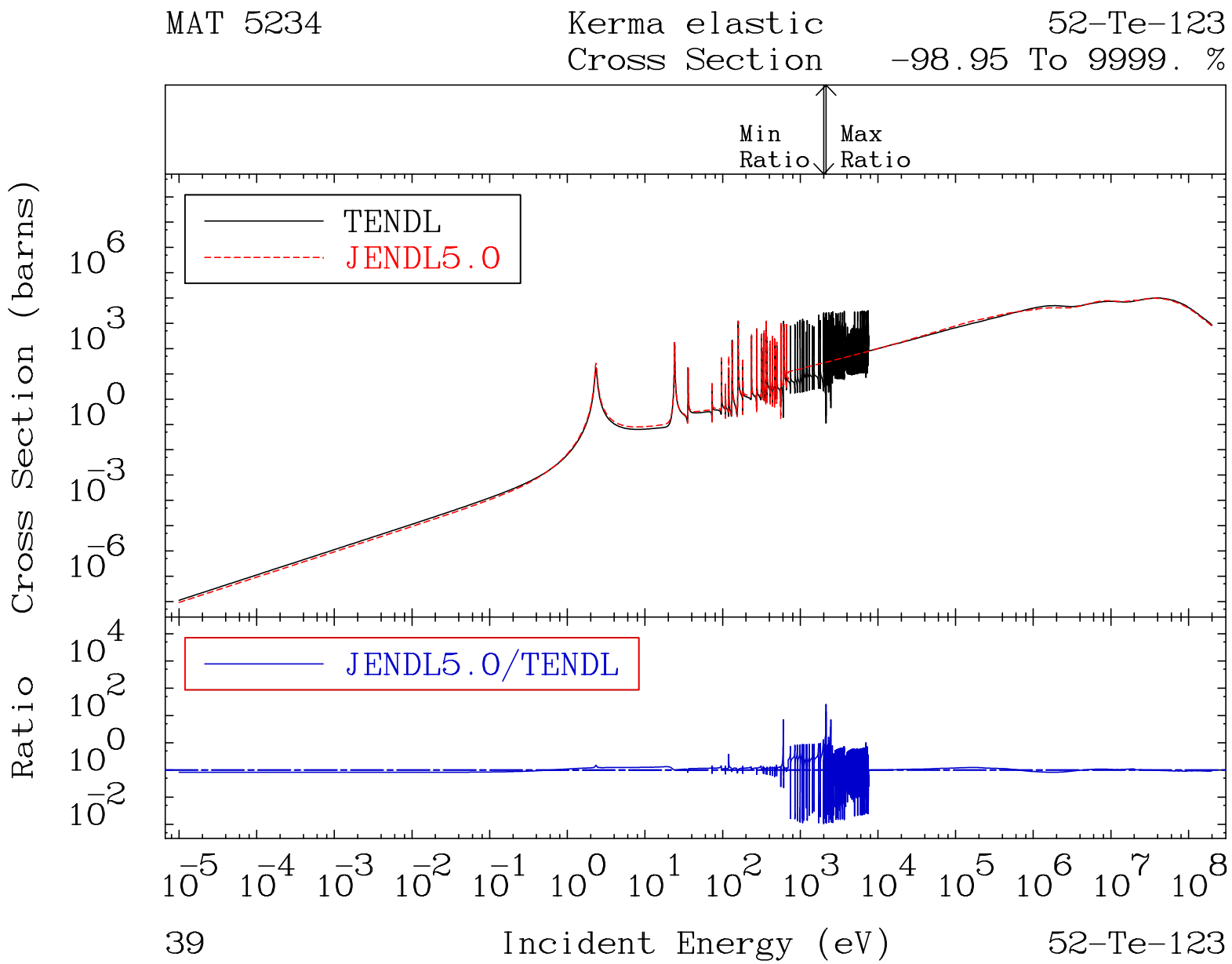

MAT 5234
Deuterium Production
52-Te-123
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 5.9496 MeV
JENDL5.0 Threshold 5.9546 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
10
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
52-Te-123

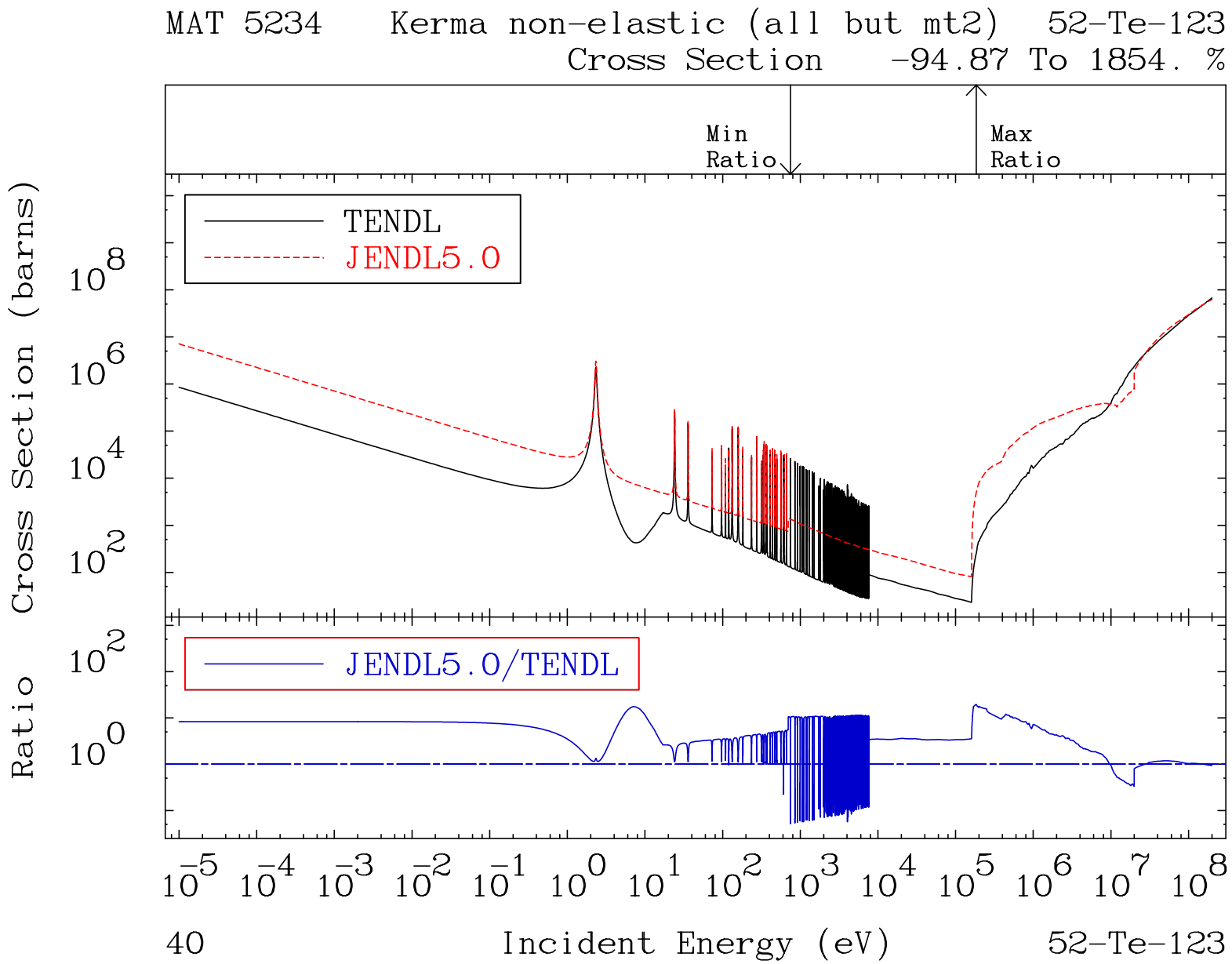

MAT 5234
Tritium Production
52-Te-123
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 6.5032 MeV
JENDL5.0 Threshold 6.5083 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
100
0
7 8
10^7
2 3 4 5 6 7 8
10^8
2
35
Incident Energy (eV)
52-Te-123

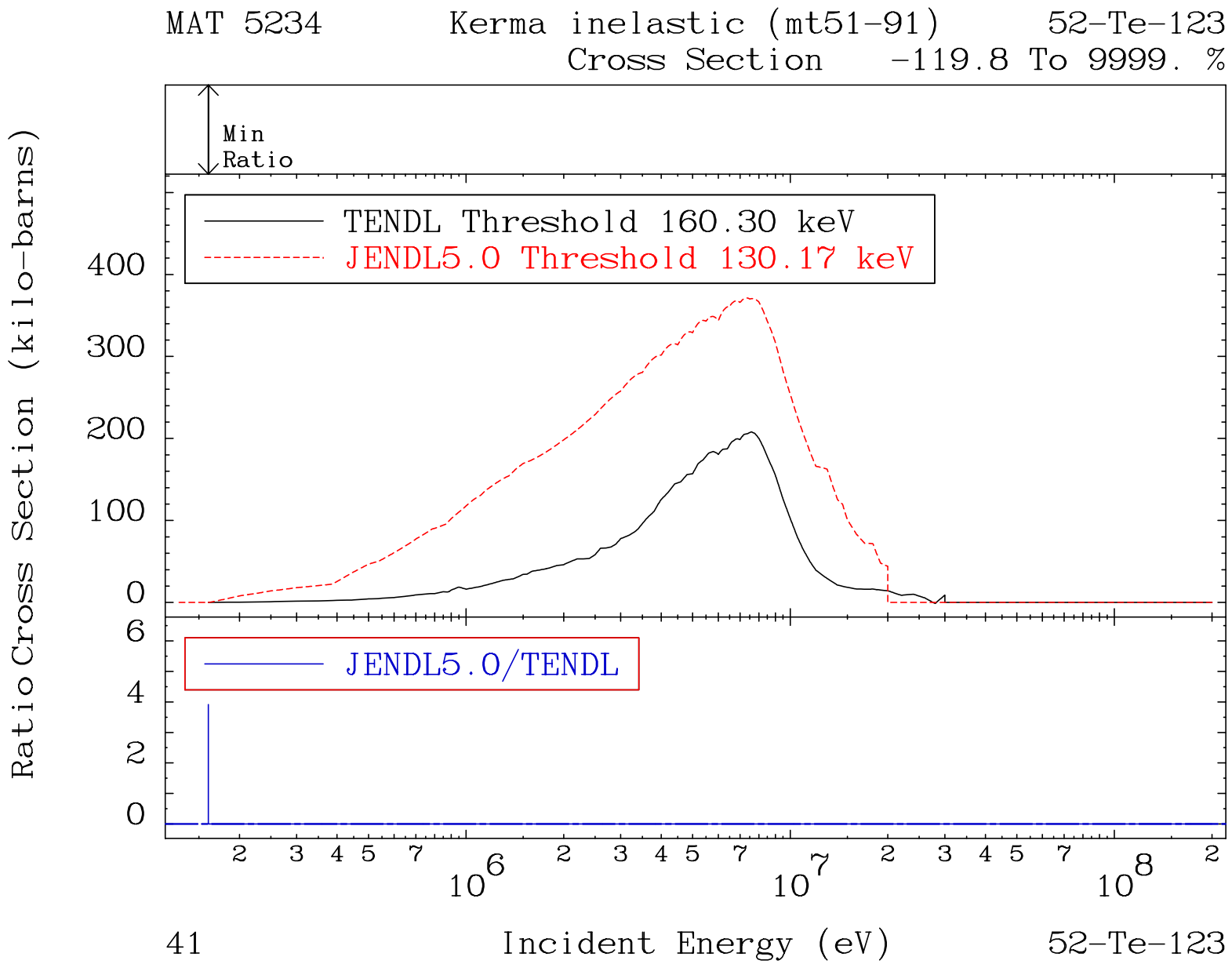

MAT 5234
He-3 Production
Cross Section
52-Te-123
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.8903 MeV
JENDL5.0 Threshold 6.8838 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
200
100
0
10^6
10^0
10^-6
7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
36
52-Te-123

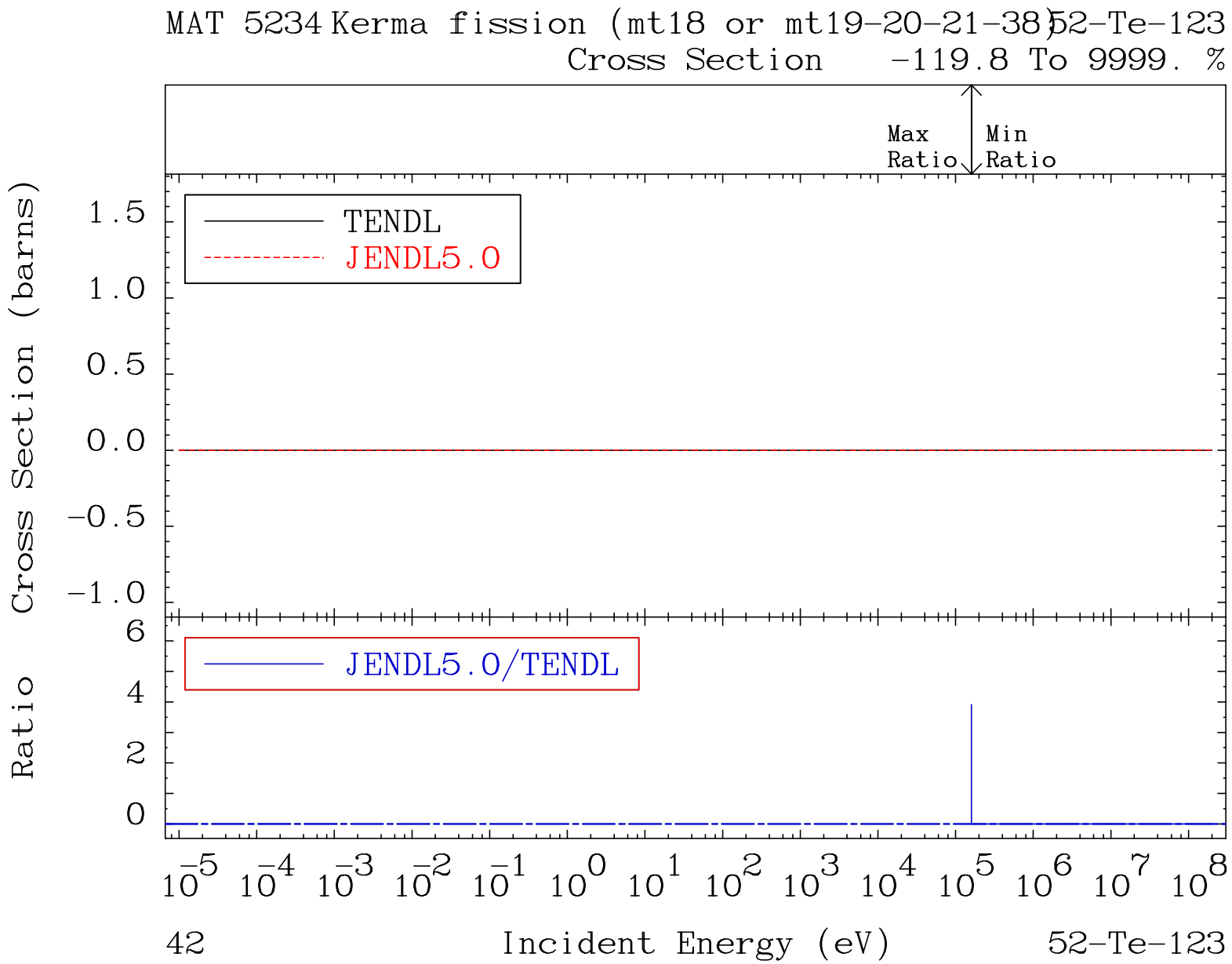

MAT 5234
He-4 Production
Cross Section
52-Te-123
-84.61 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
37
52-Te-123

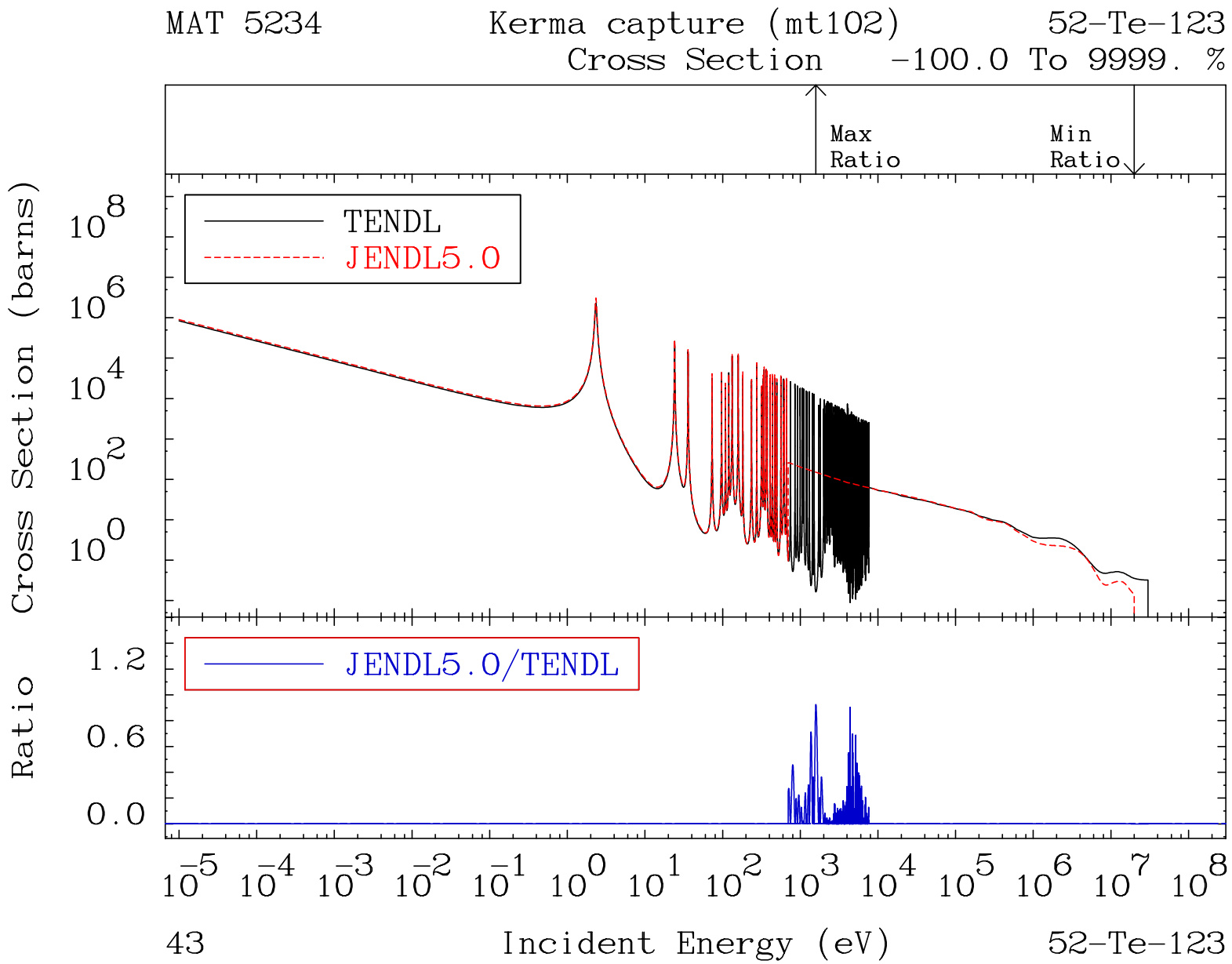

MAT 5234
Kerma total (eV-barns)
52-Te-123
Cross Section -97.09 To 1653. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
38
52-Te-123

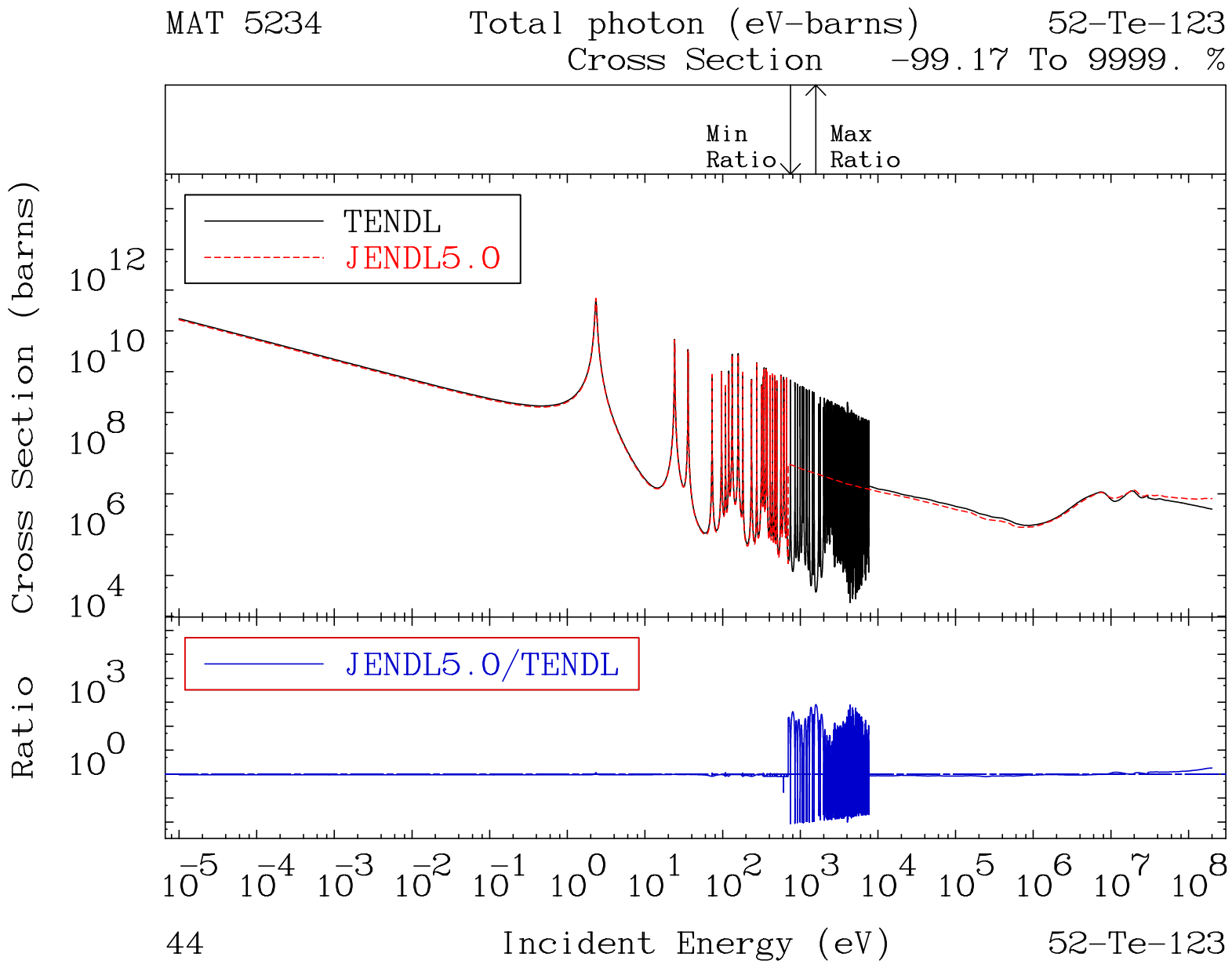

MAT 5234
Kerma elastic
Cross Section
52-Te-123
-98.95 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
39
52-Te-123

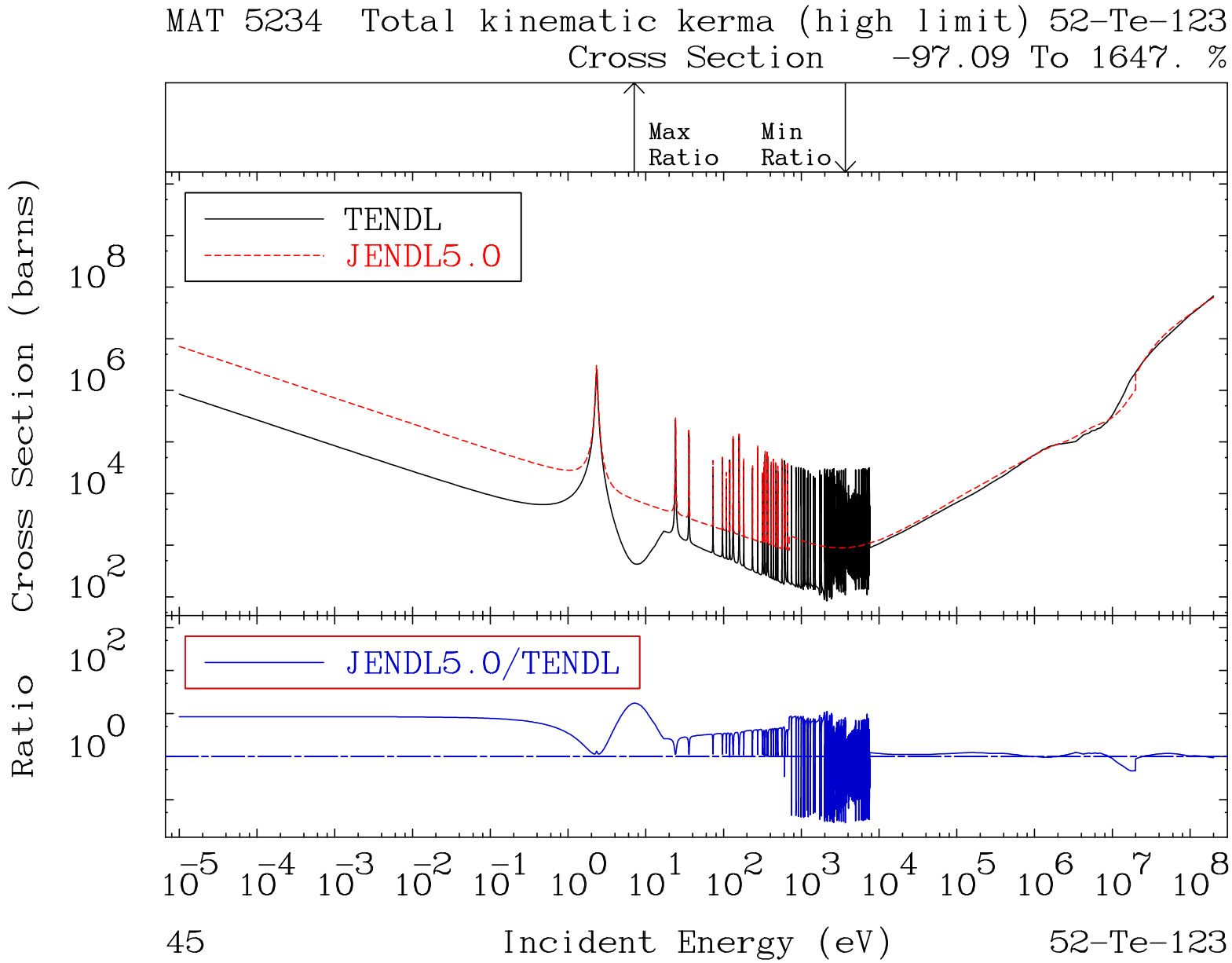

MAT 5234 Kerma non-elastic (all but mt2) 52-Te-123
Cross Section -94.87 To 1854. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
40
52-Te-123

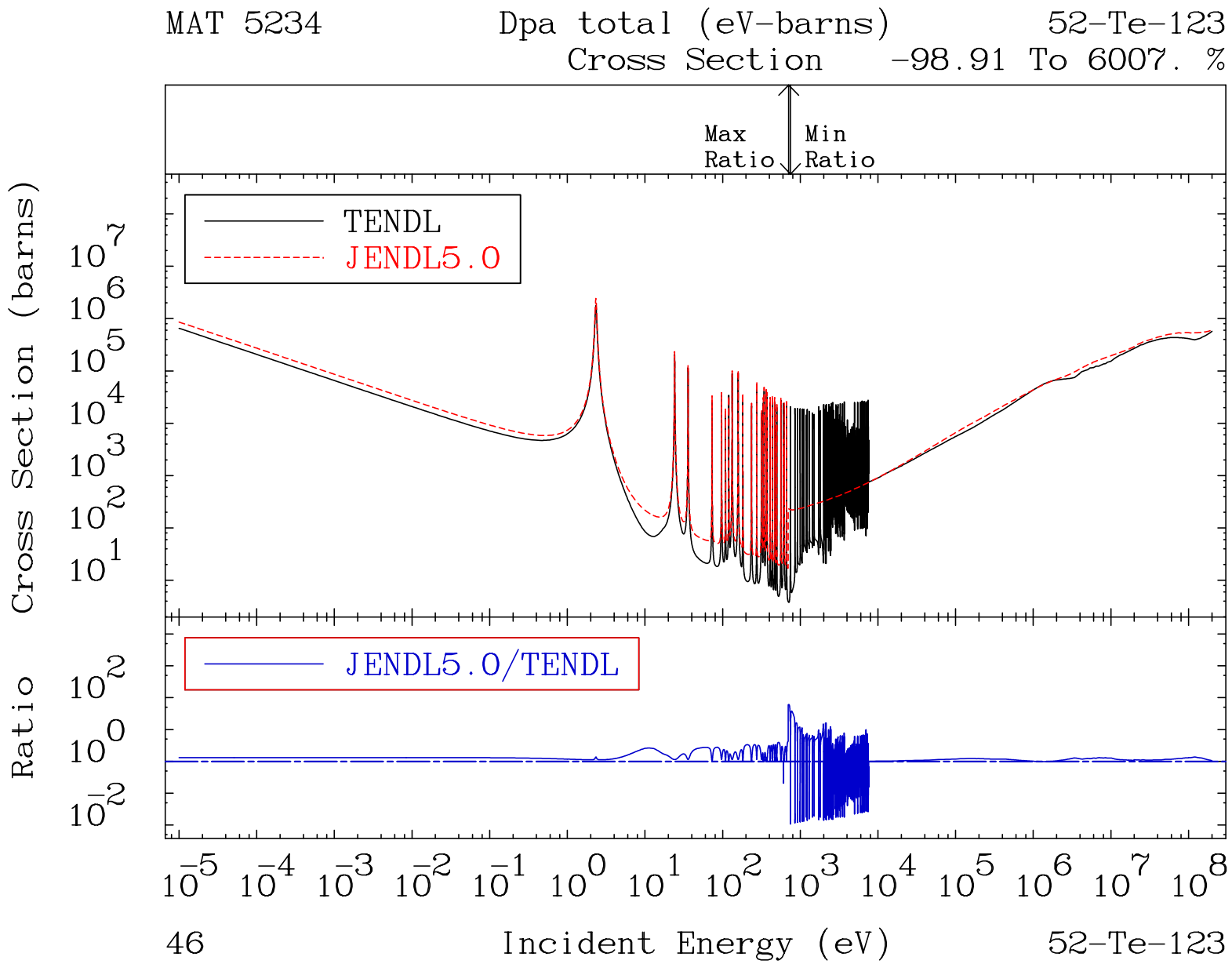

MAT 5234
Kerma inelastic (mt51-91)
52-Te-123
Cross Section
-119.8 To 9999. %
Min
Ratio
TENDL Threshold 160.30 keV
JENDL5.0 Threshold 130.17 keV
JENDL5.0/TENDL
Ratio Cross Section (kilo-barns)
400
300
200
100
0
6
4
2
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
41
Incident Energy (eV)
52-Te-123

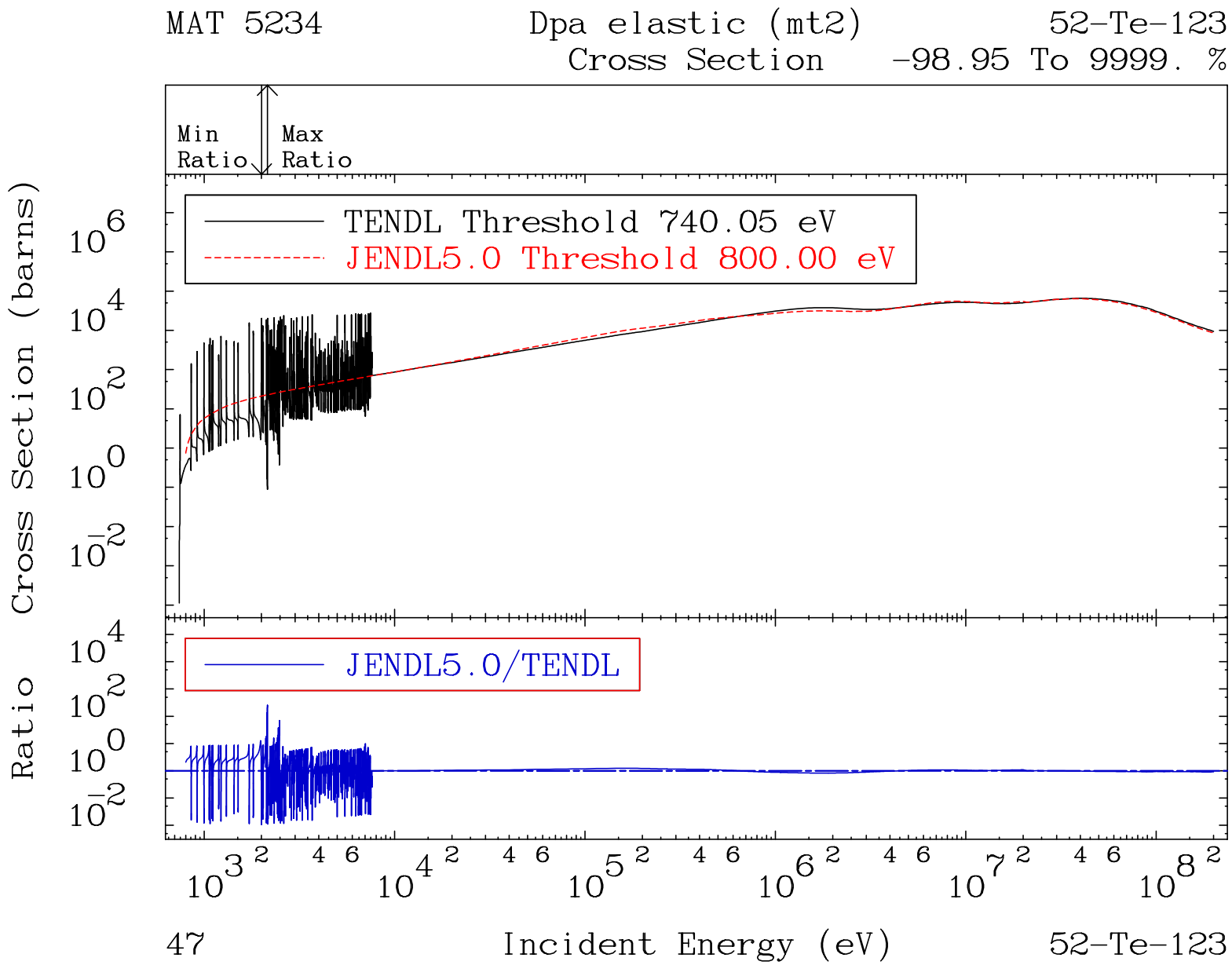

MAT 5234 Kerma fission (mt18 or mt19-20-21-38) 52-Te-123
Cross Section -119.8 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
6
4
2
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
42
Incident Energy (eV)
52-Te-123

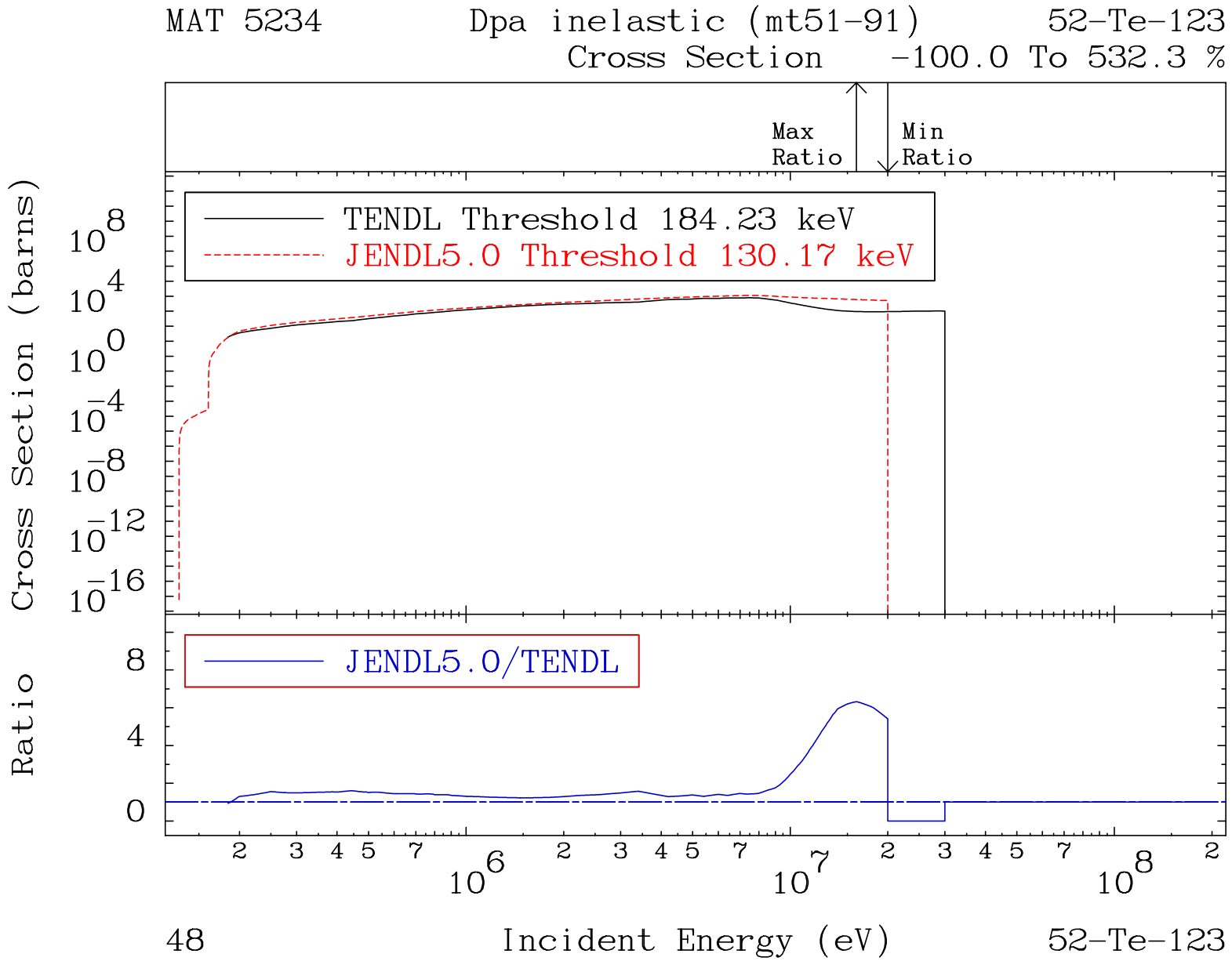

MAT 5234
Kerma capture (mt102)
52-Te-123
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
43
52-Te-123

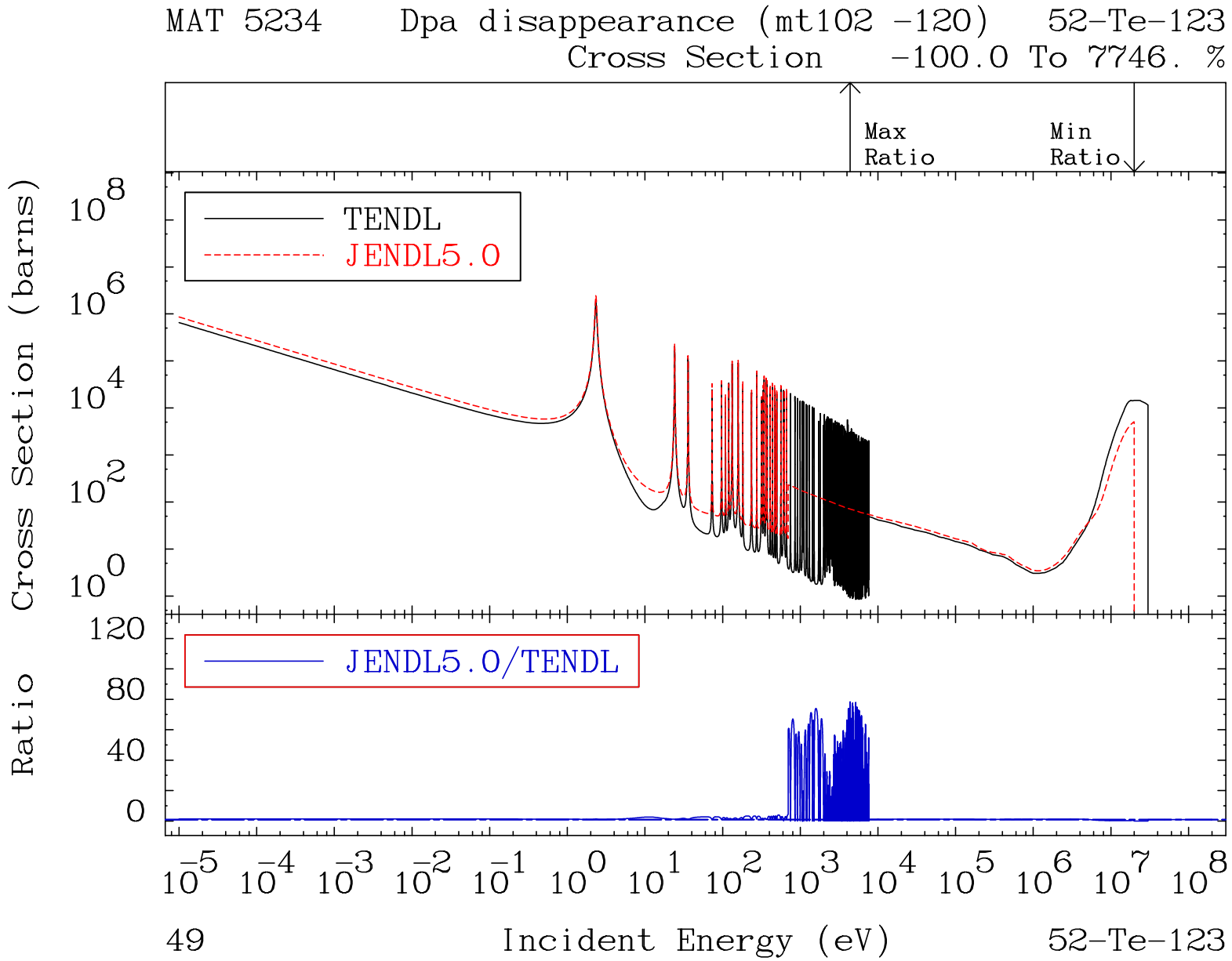

MAT 5234
Total photon (eV-barns)
52-Te-123
Cross Section -99.17 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
44
52-Te-123

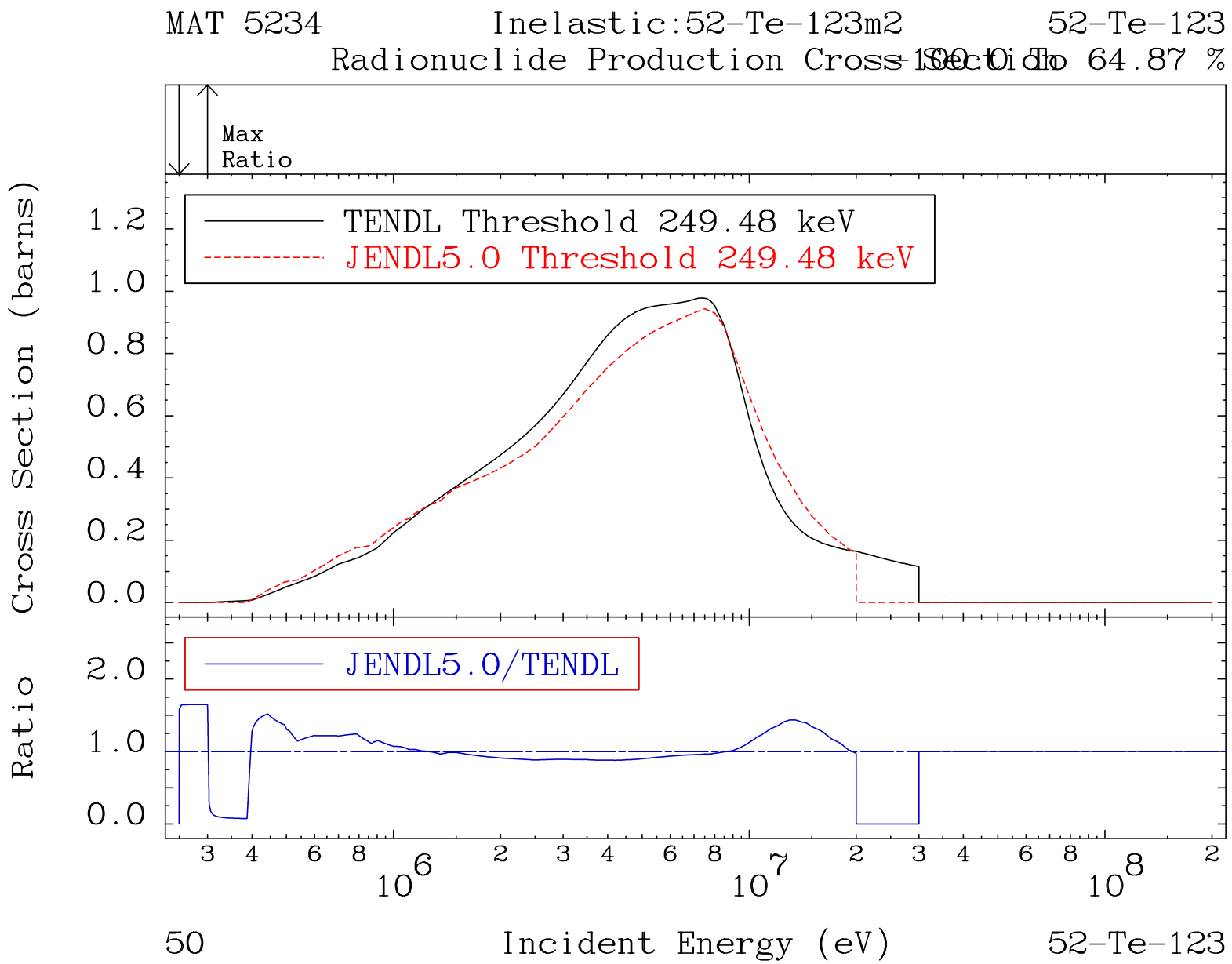

MAT 5234 Total kinematic kerma (high limit) 52-Te-123
Cross Section -97.09 To 1647. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
45
52-Te-123

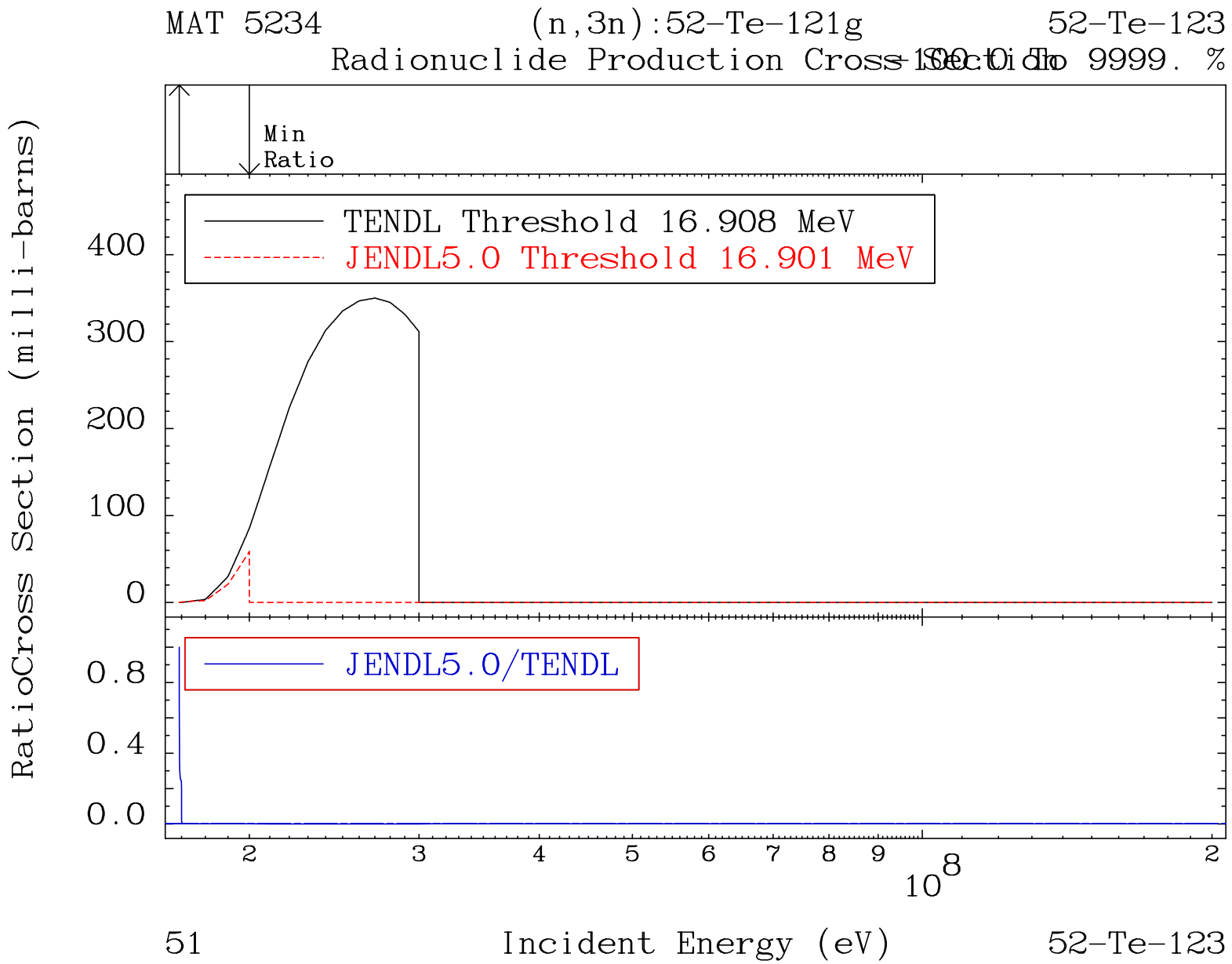

MAT 5234
Dpa total (eV-barns)
52-Te-123
Cross Section
-98.91 To 6007. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
46
52-Te-123

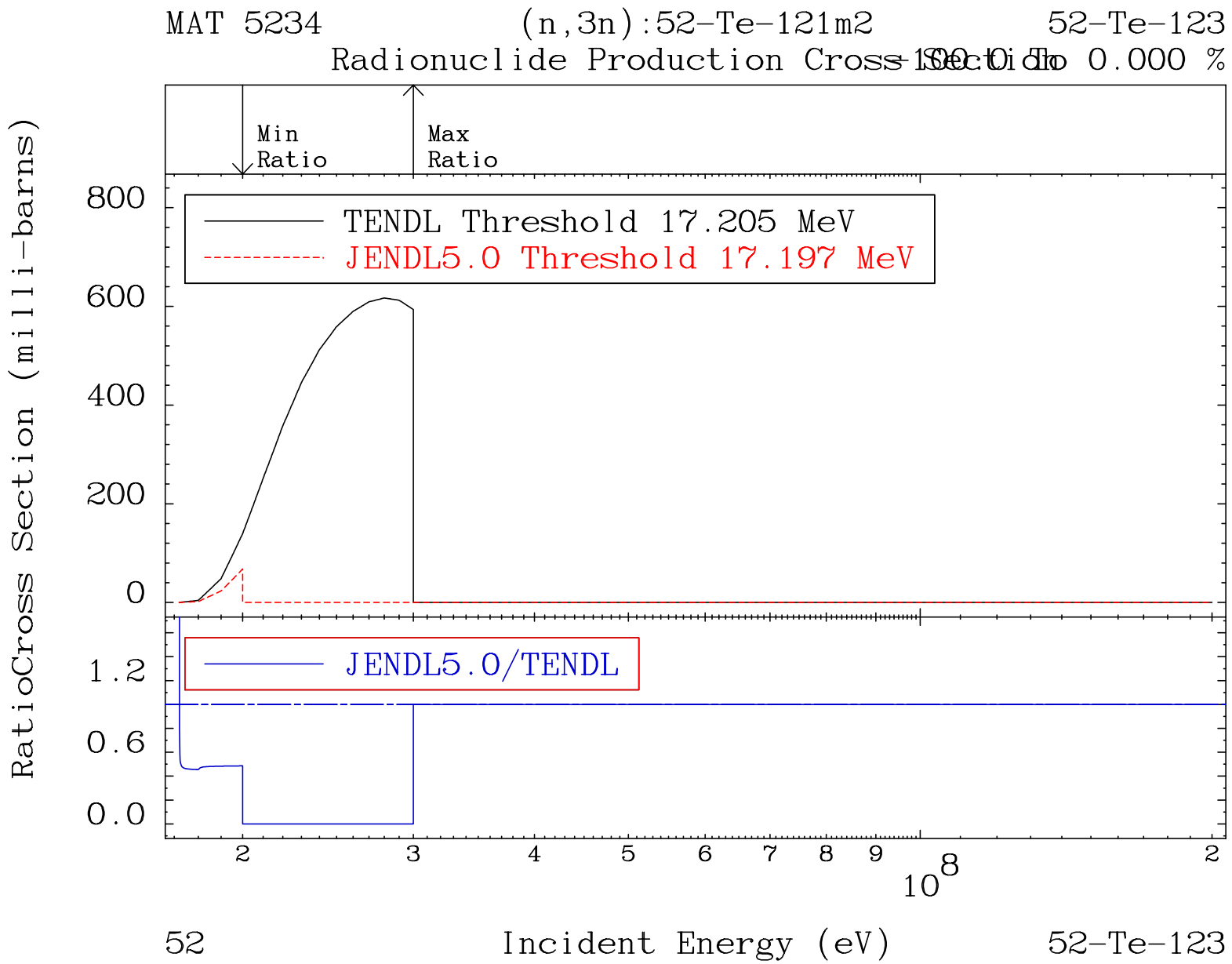

MAT 5234
Dpa elastic (mt2)
Cross Section
52-Te-123
-98.95 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 740.05 eV
JENDL5.0 Threshold 800.00 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
47
52-Te-123

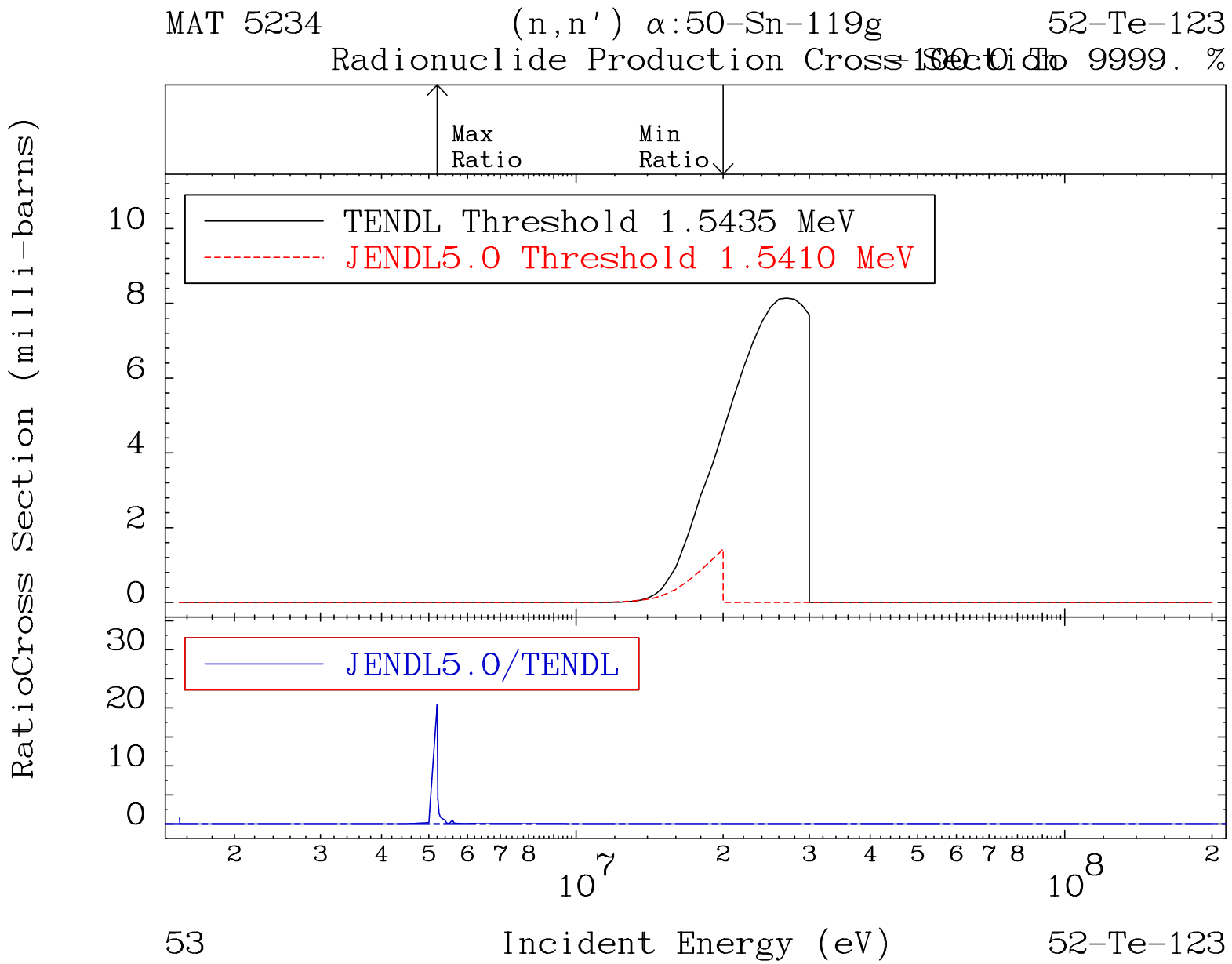

MAT 5234
Dpa inelastic (mt51-91)
52-Te-123
Cross Section -100.0 To 532.3 %
Max Ratio
Min Ratio
TENDL Threshold 184.23 keV
JENDL5.0 Threshold 130.17 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
48
52-Te-123

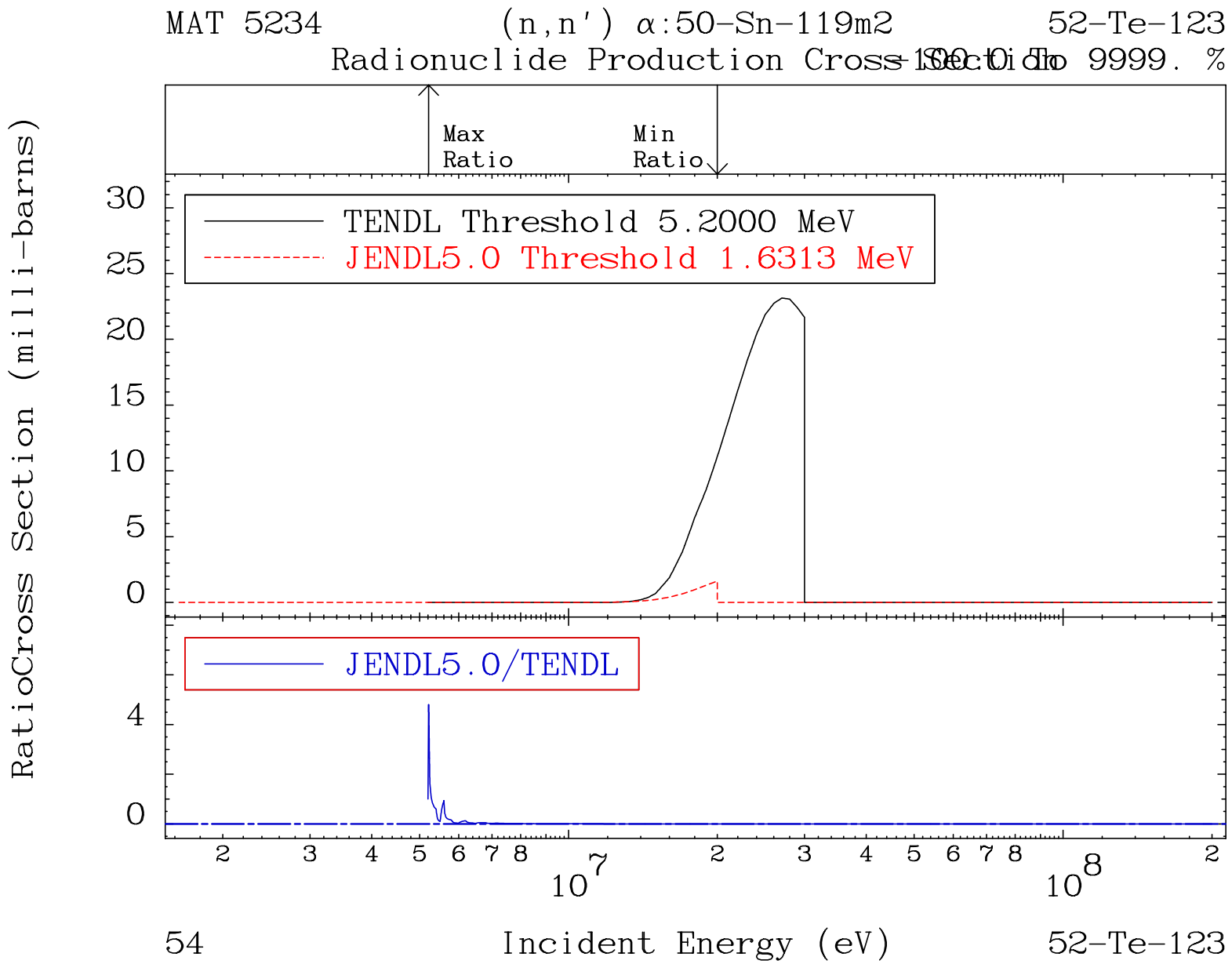

MAT 5234 Dpa disappearance (mt102 -120) 52-Te-123
Cross Section -100.0 To 7746. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
49
52-Te-123

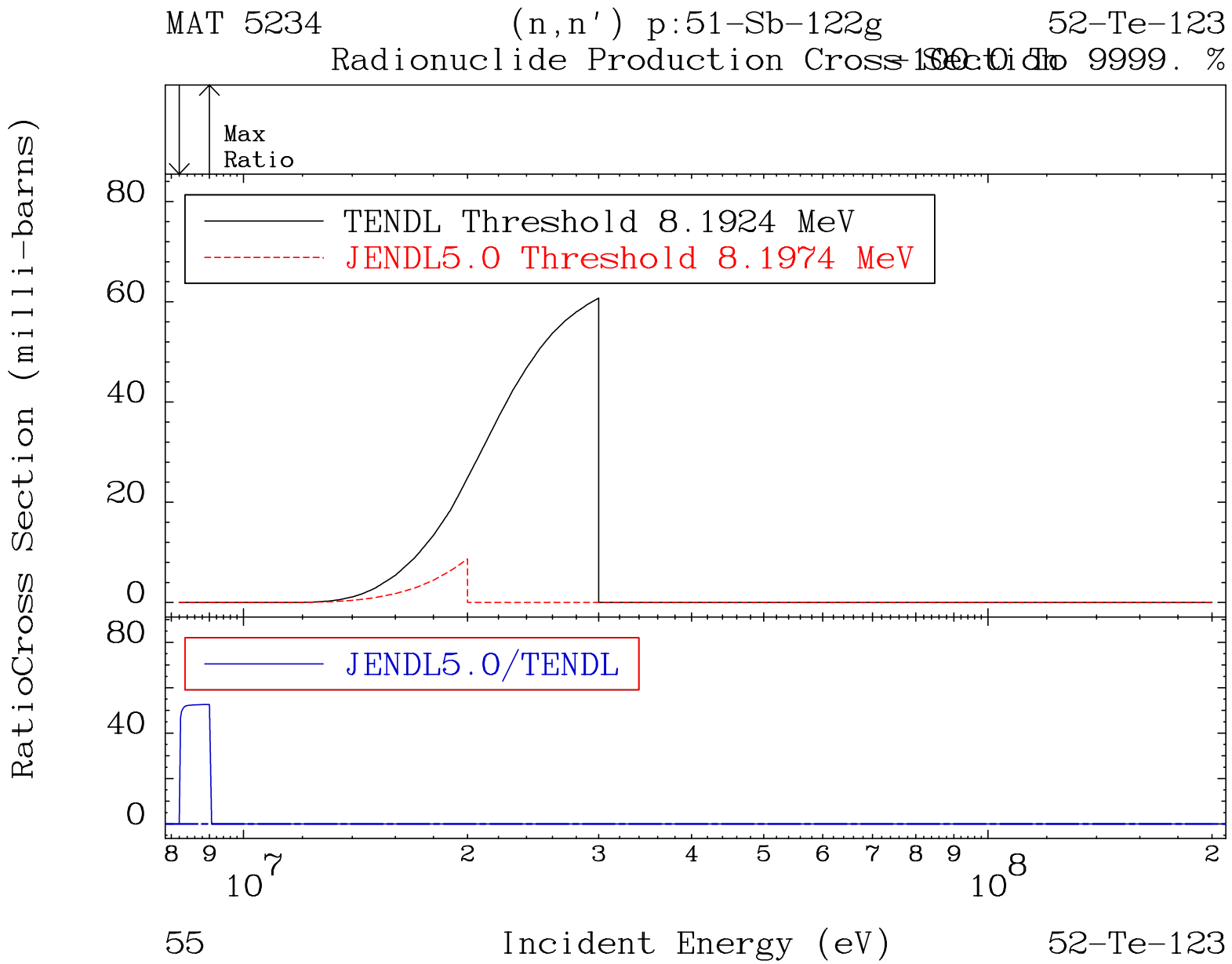

MAT 5234
Inelastic:52-Te-123m2
52-Te-123
Radionuclide Production Cross Section To 64.87 %
Max
Ratio
TENDL Threshold 249.48 keV
JENDL5.0 Threshold 249.48 keV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
2.0
1.0
0.0
3 4 6 8 10^6 2 3 4 6 8 10^7 2 3 4 6 8 10^8 2
50
Incident Energy (eV)
52-Te-123

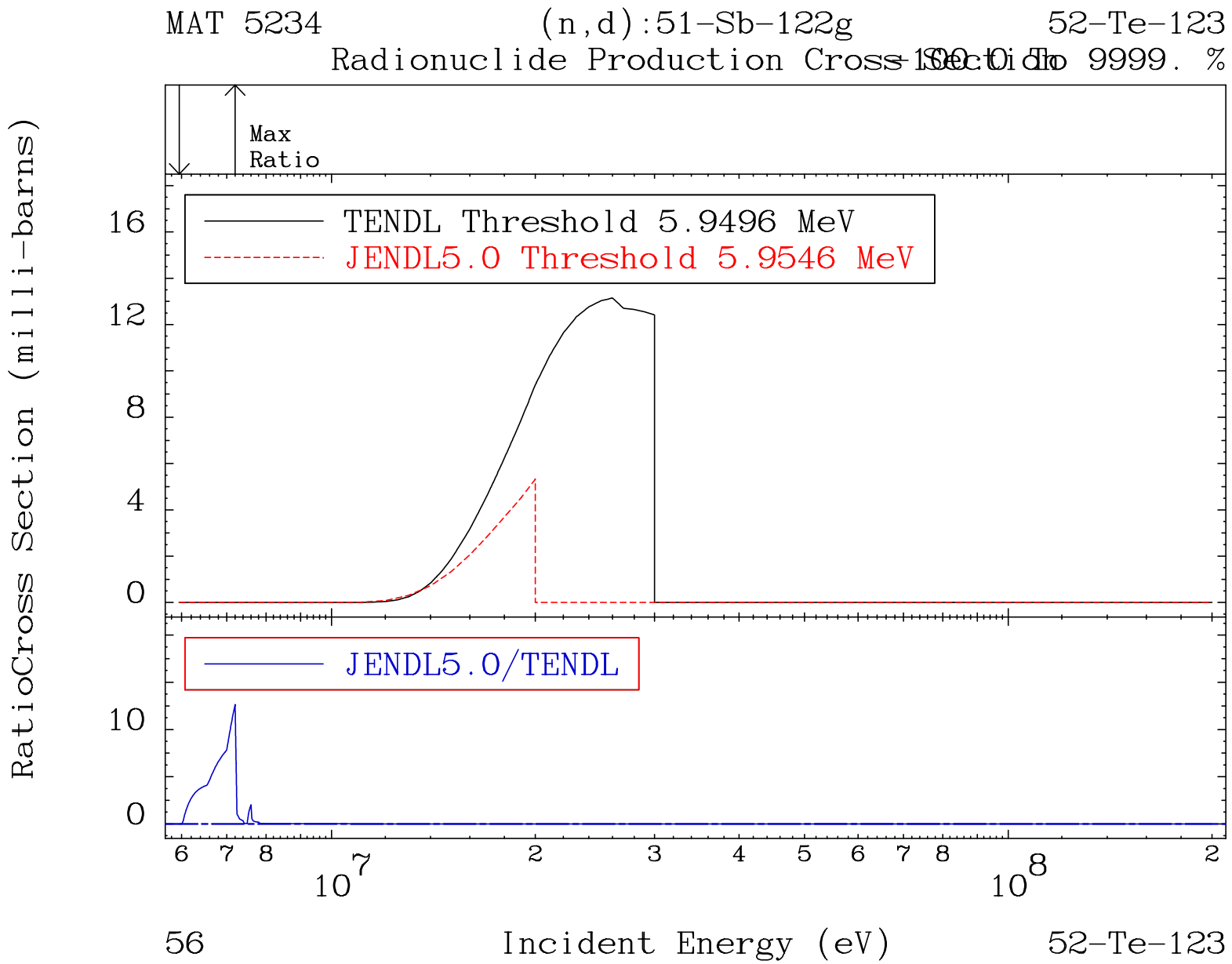

MAT 5234
(n,3n):52-Te-121g
52-Te-123
Radionuclide Production Cross Section
Min
Ratio
TENDL Threshold 16.908 MeV
JENDL5.0 Threshold 16.901 MeV
400
300
200
100
0
JENDL5.0/TENDL
0.8
0.4
0.0
2
3
4
5
6
7
8
9
10^8
2
RatioCross Section (milli-barns)
51
Incident Energy (eV)
52-Te-123

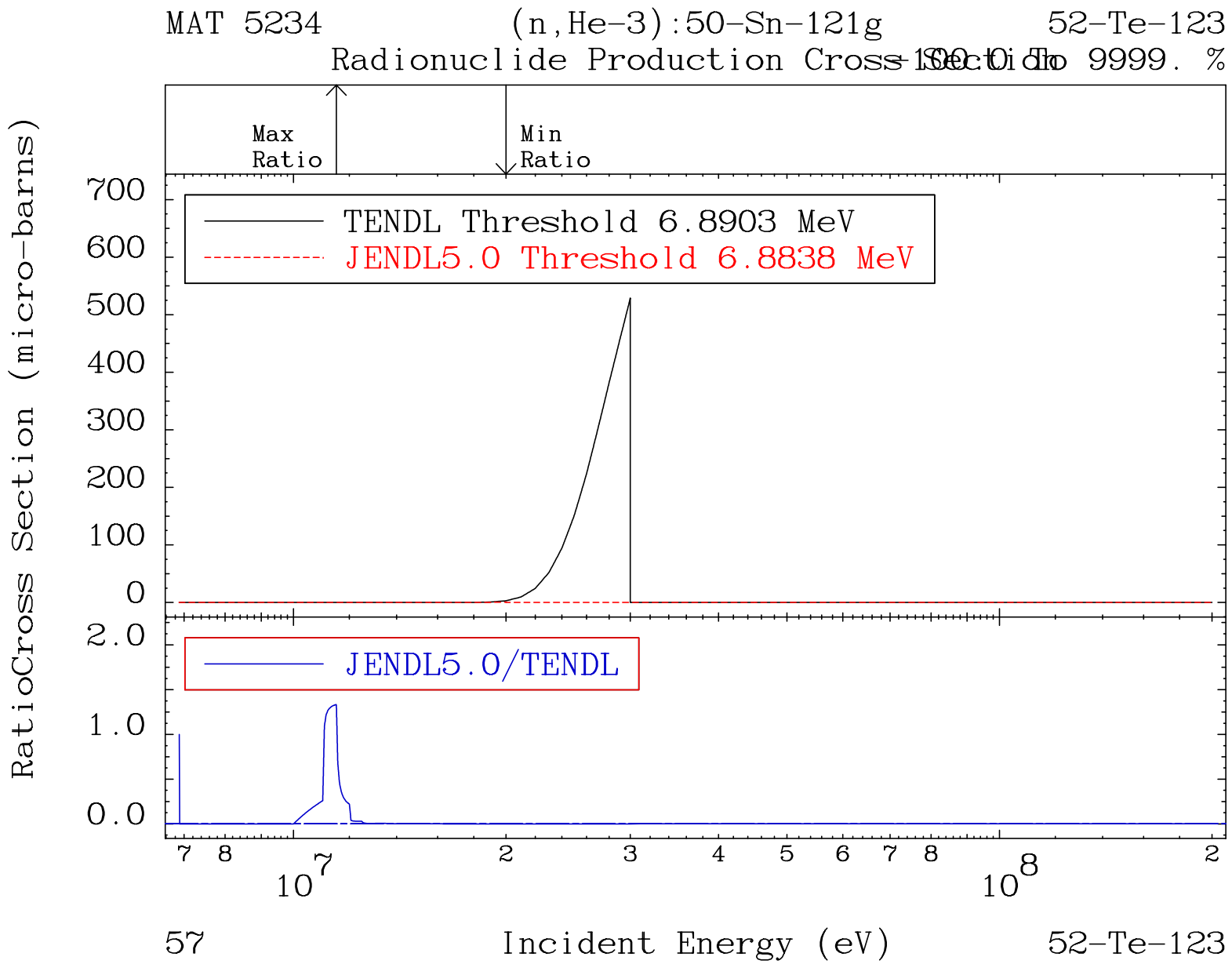

MAT 5234
(n,3n):52-Te-121m2
52-Te-123
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 17.205 MeV
JENDL5.0 Threshold 17.197 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
52
Incident Energy (eV)
52-Te-123

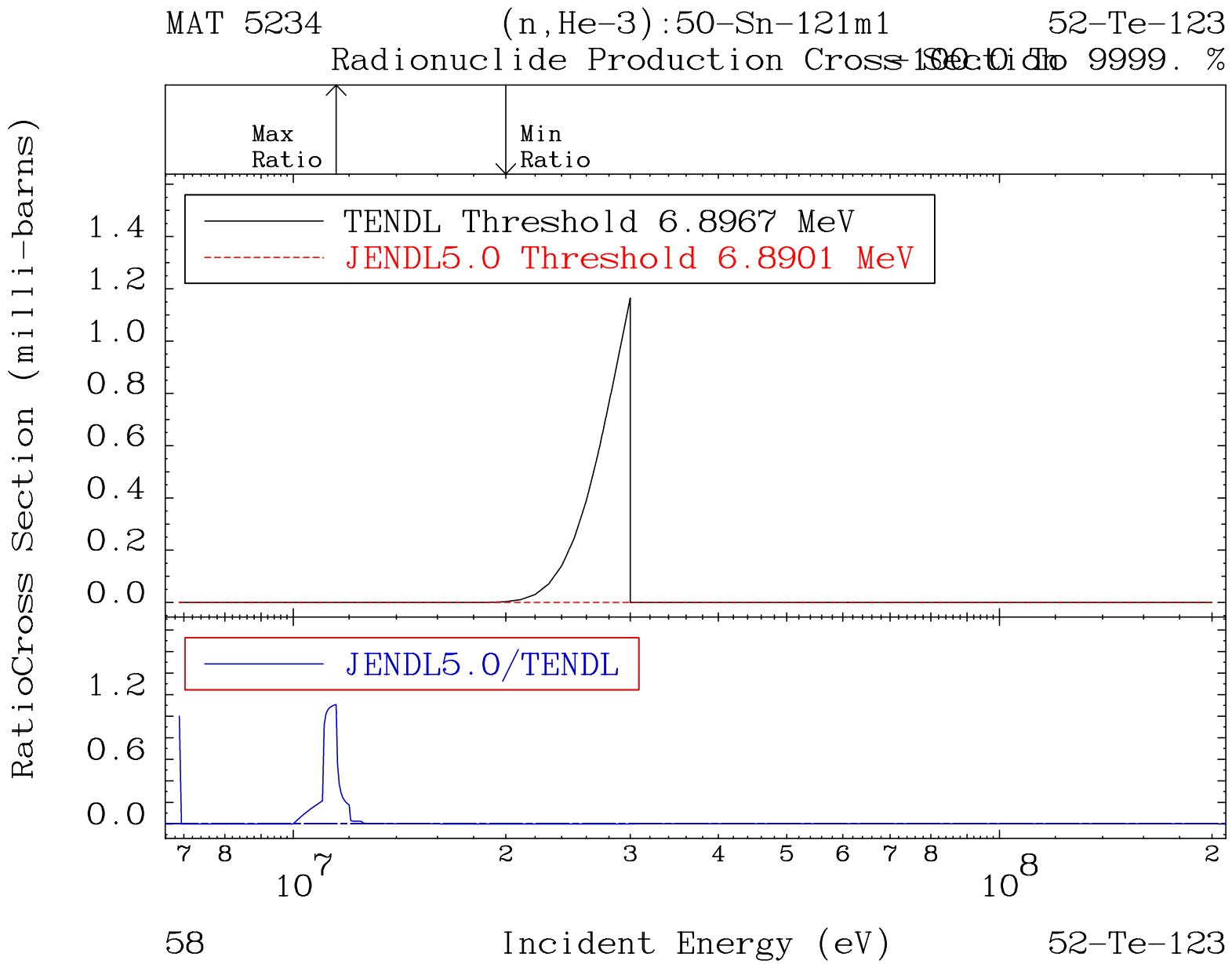

MAT 5234
(n,n') α:50-Sn-119g
52-Te-123
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 1.5435 MeV
JENDL5.0 Threshold 1.5410 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
53
52-Te-123

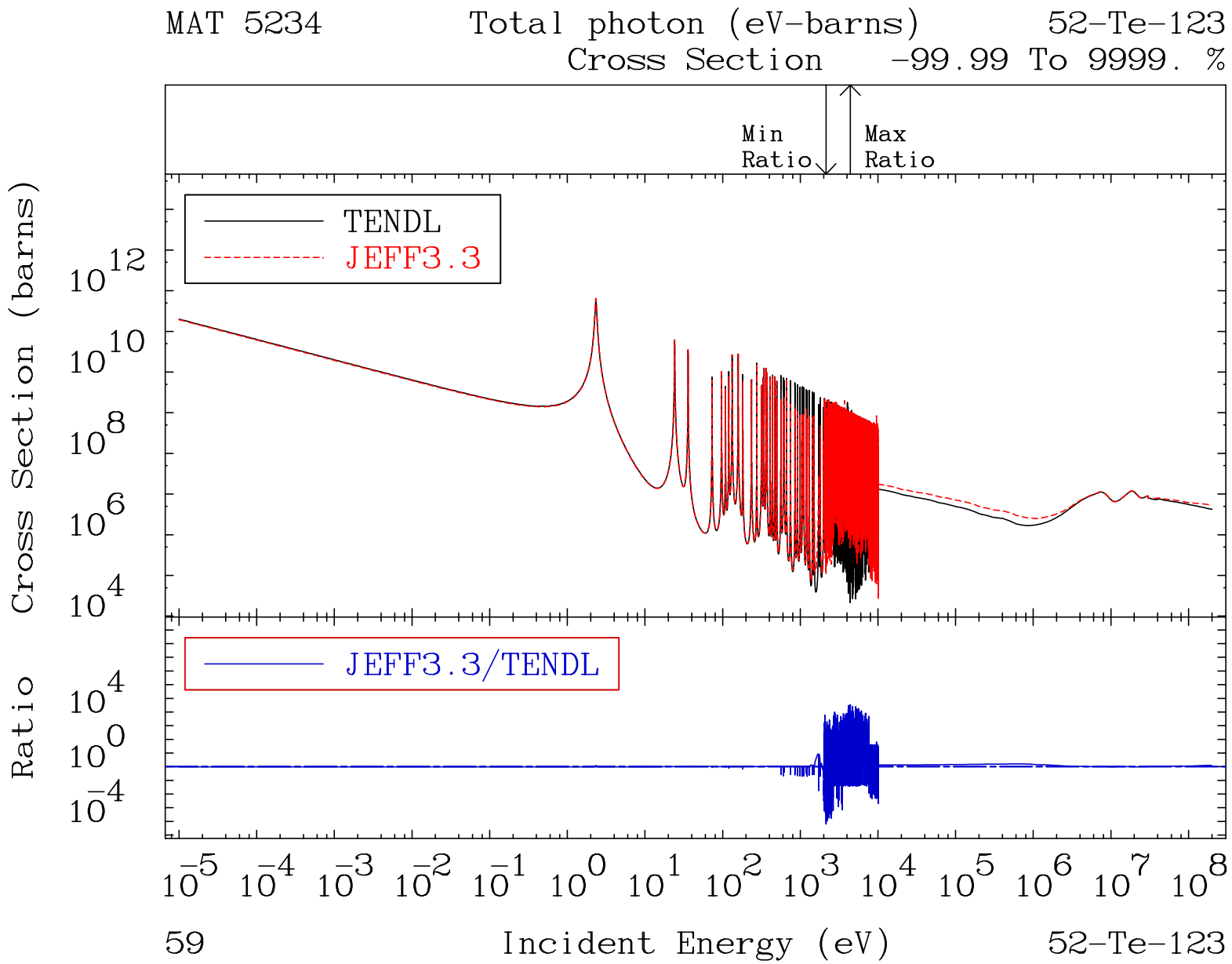

MAT 5234
(n,n') α:50-Sn-119m2
52-Te-123
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 5.2000 MeV
JENDL5.0 Threshold 1.6313 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
54
52-Te-123

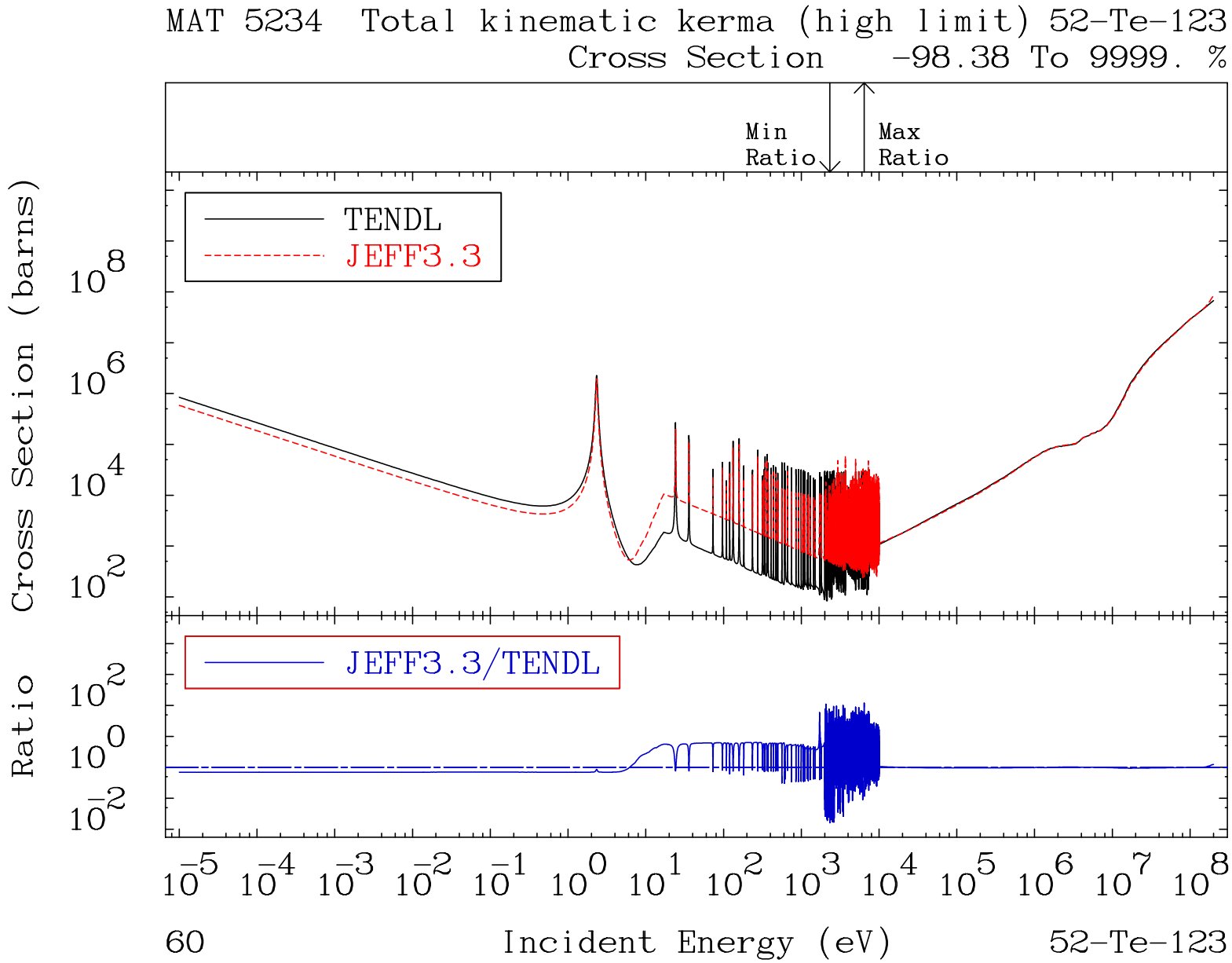

MAT 5234
(n,n') p:51-Sb-122g
52-Te-123
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 8.1924 MeV
JENDL5.0 Threshold 8.1974 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
80
40
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
55
Incident Energy (eV)
52-Te-123

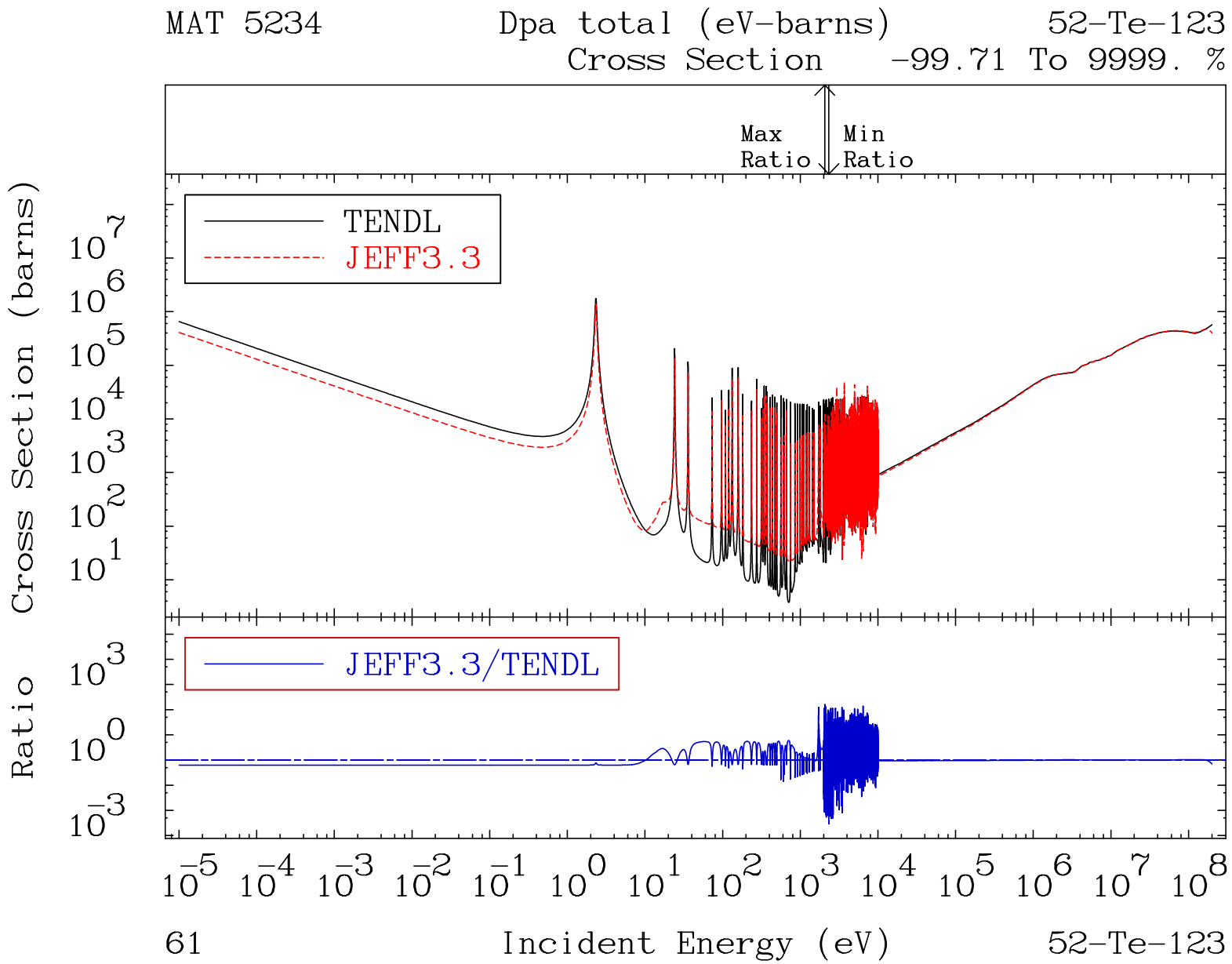

MAT 5234
(n,d):51-Sb-122g
52-Te-123
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 5.9496 MeV
JENDL5.0 Threshold 5.9546 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
56
52-Te-123

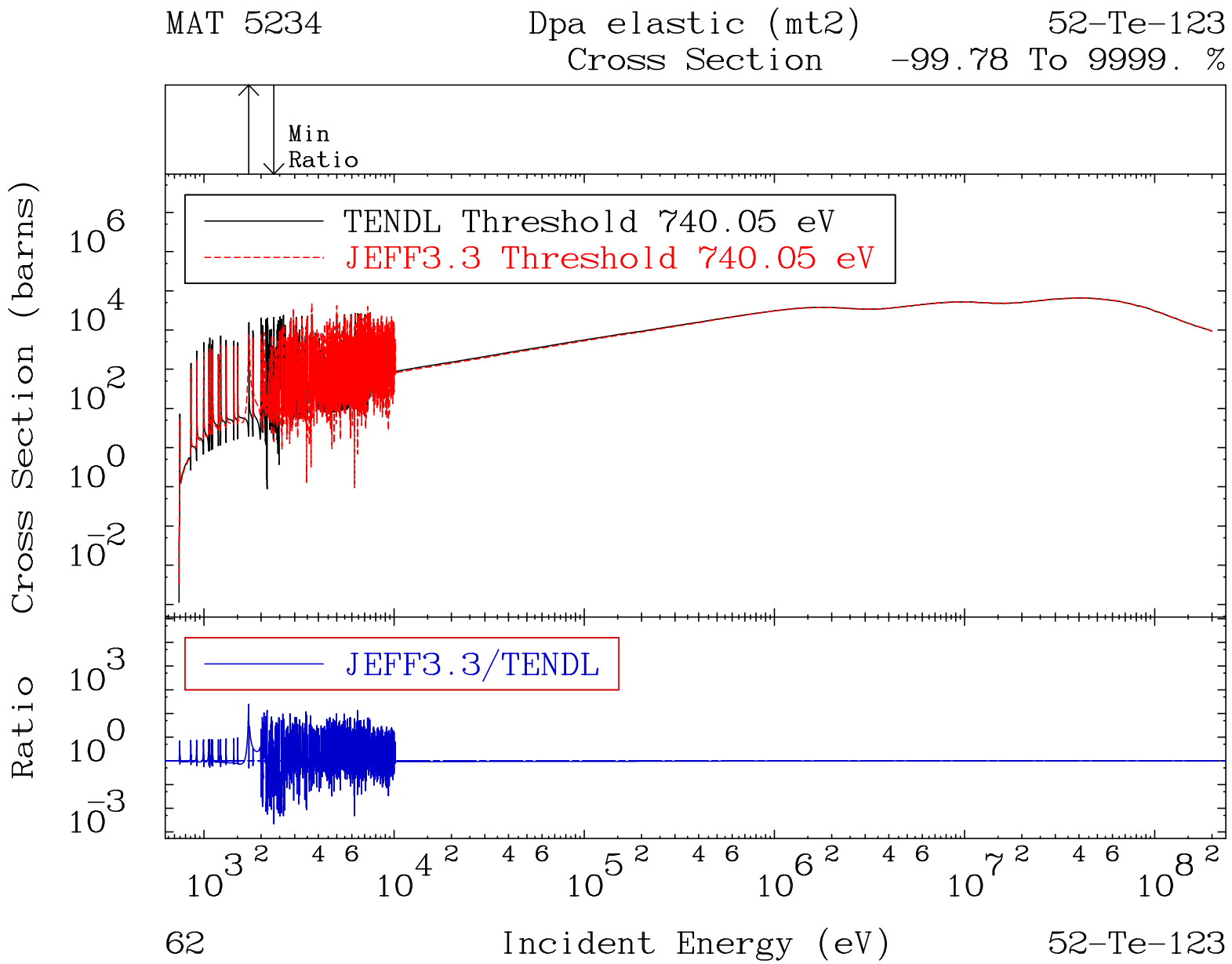

MAT 5234
(n,He-3):50-Sn-121g
52-Te-123
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.8903 MeV
JENDL5.0 Threshold 6.8838 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
700
600
500
400
300
200
100
0
2.0
1.0
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
57
Incident Energy (eV)
52-Te-123

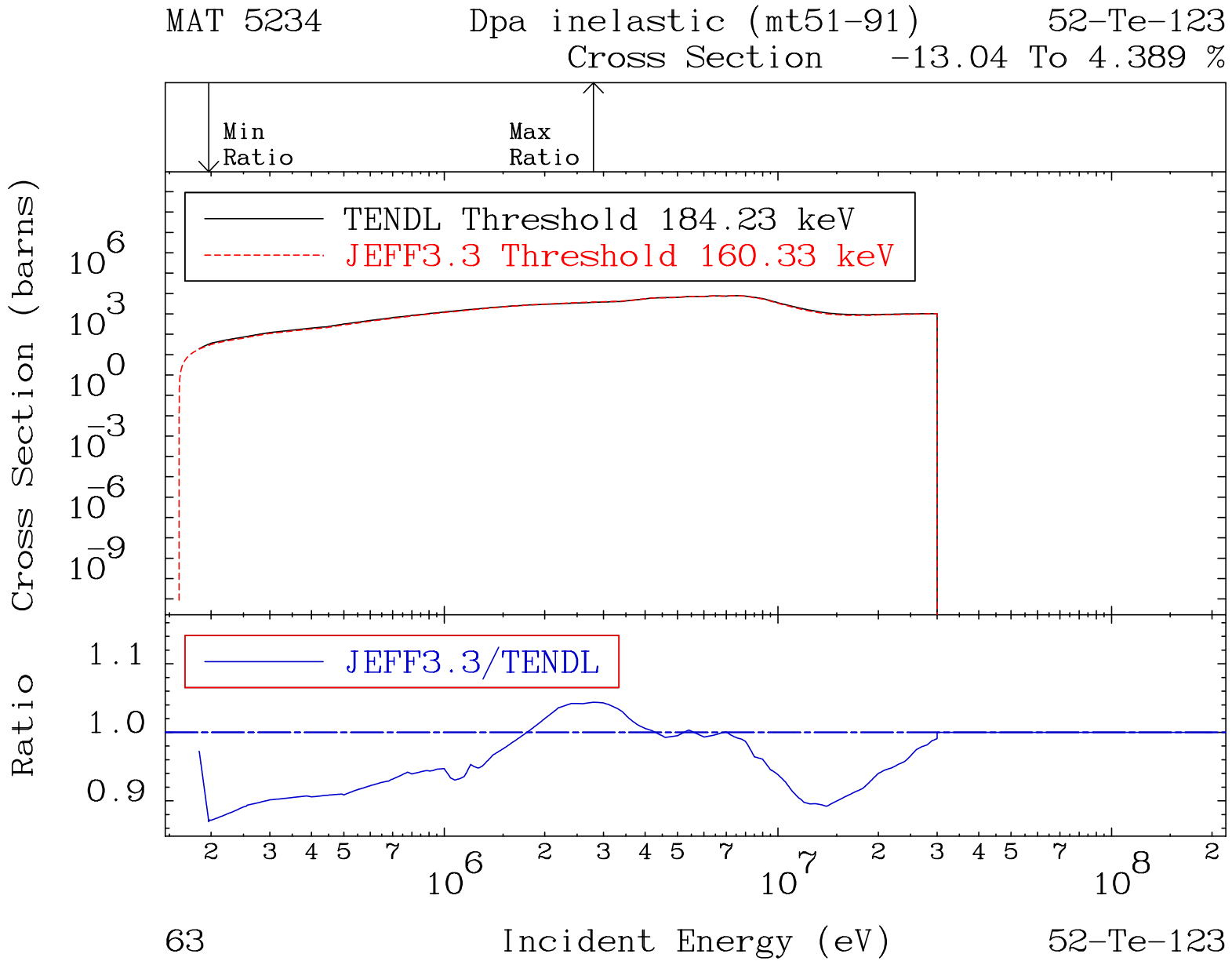

MAT 5234
(n,He-3):50-Sn-121m1
52-Te-123
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 6.8967 MeV
JENDL5.0 Threshold 6.8901 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
58
52-Te-123

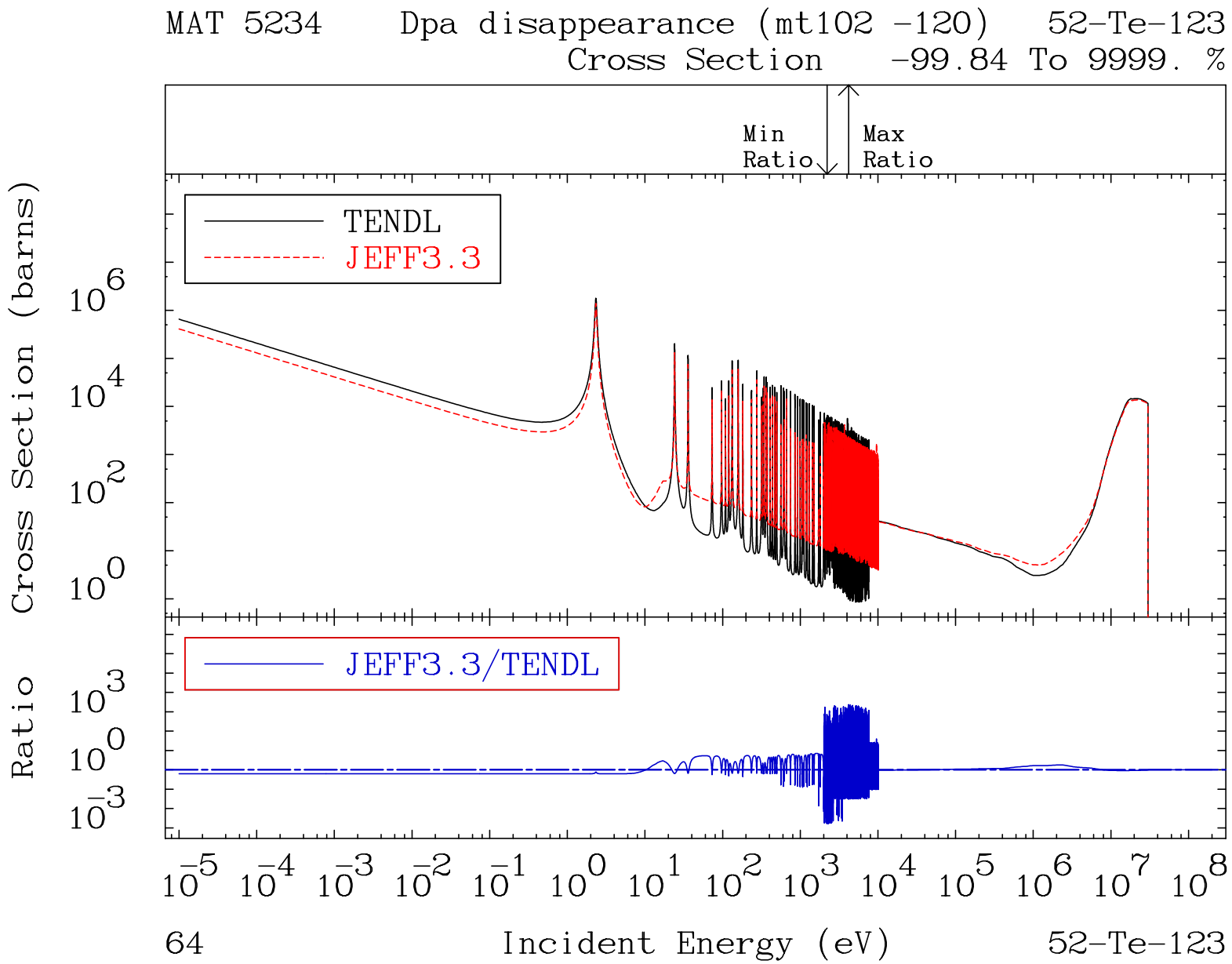

MAT 5234
Total photon (eV-barns)
52-Te-123
Cross Section -99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
52-Te-123

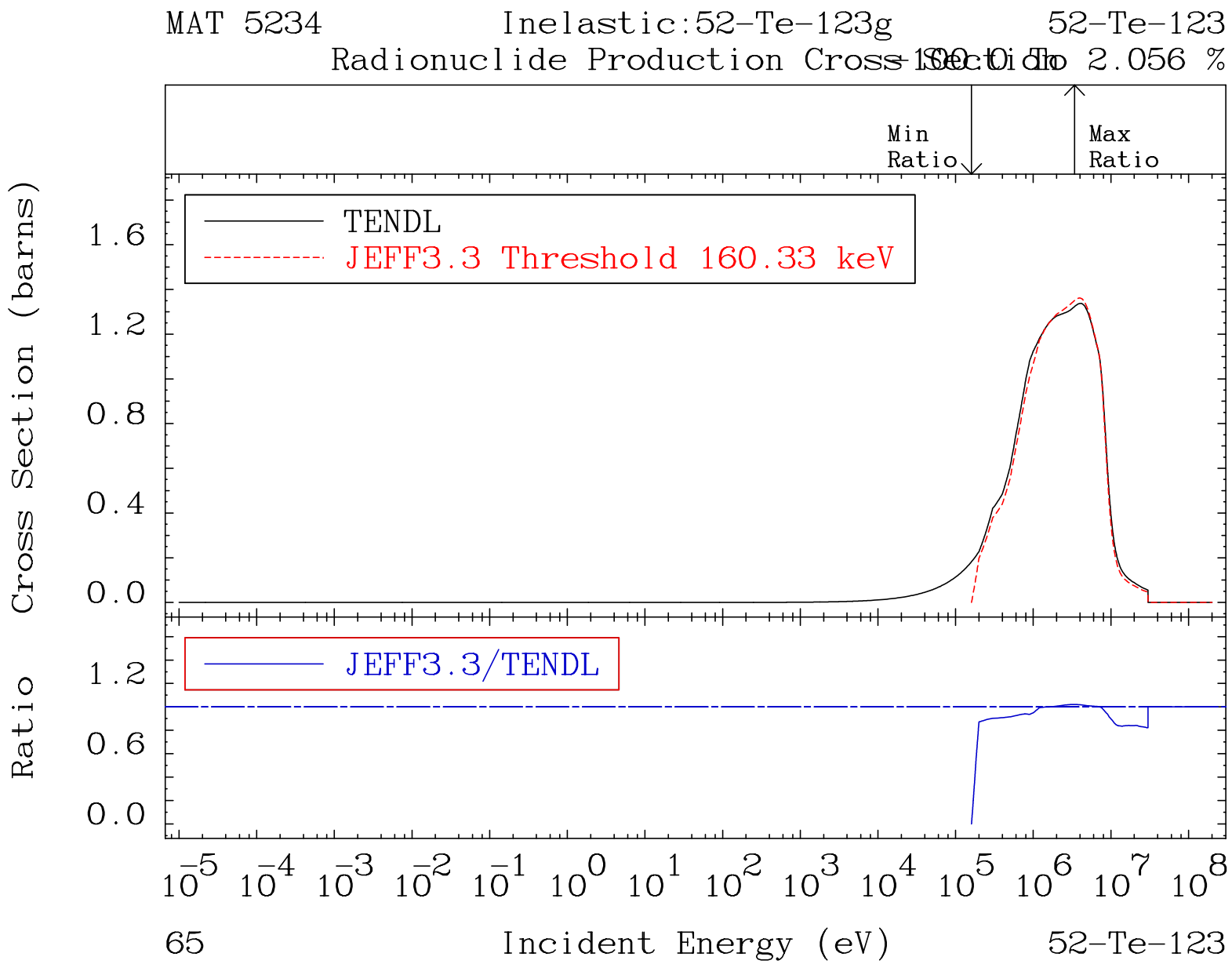

MAT 5234 Total kinematic kerma (high limit) 52-Te-123
Cross Section -98.38 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
52-Te-123

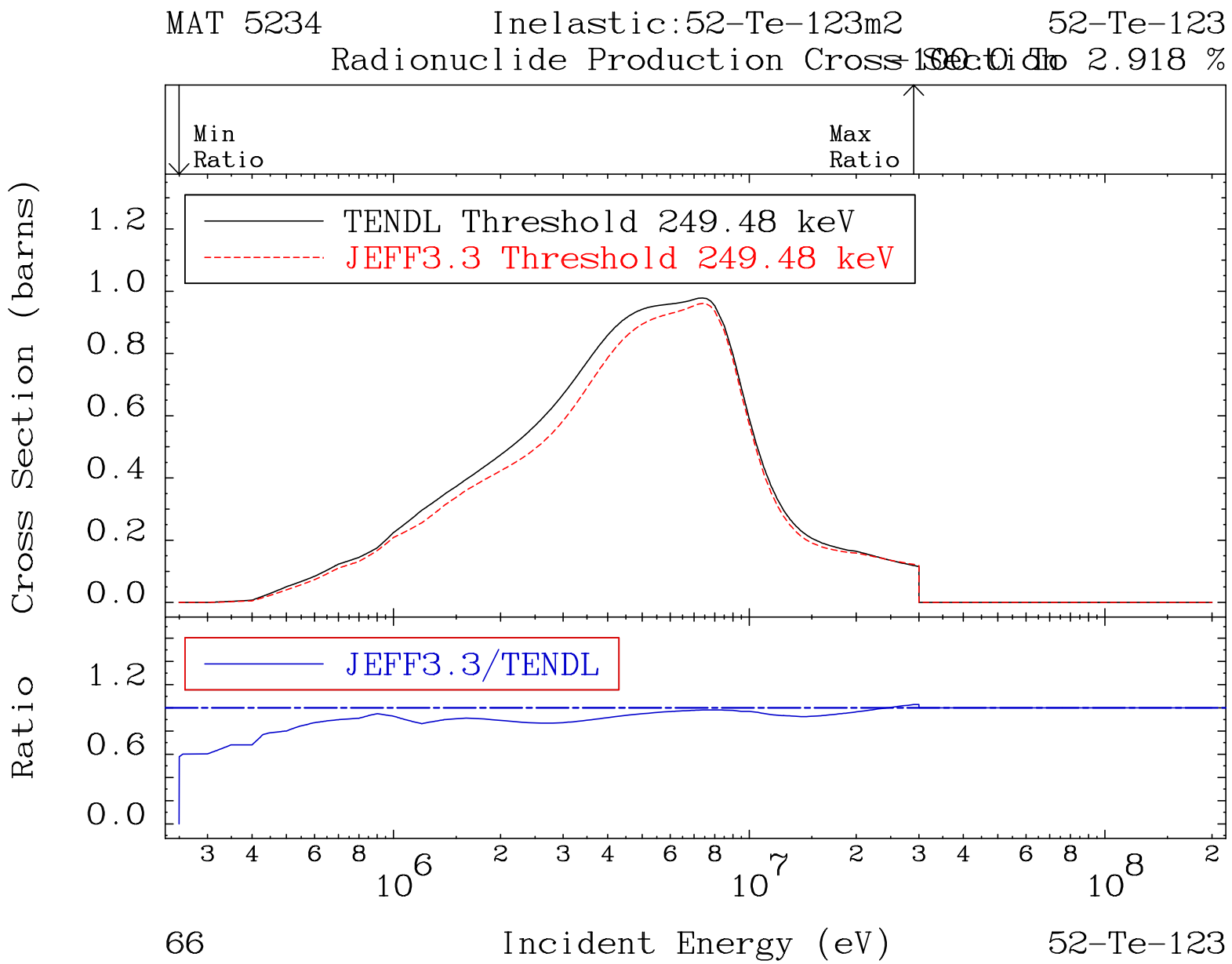

MAT 5234
Dpa total (eV-barns)
52-Te-123
Cross Section
-99.71 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
52-Te-123

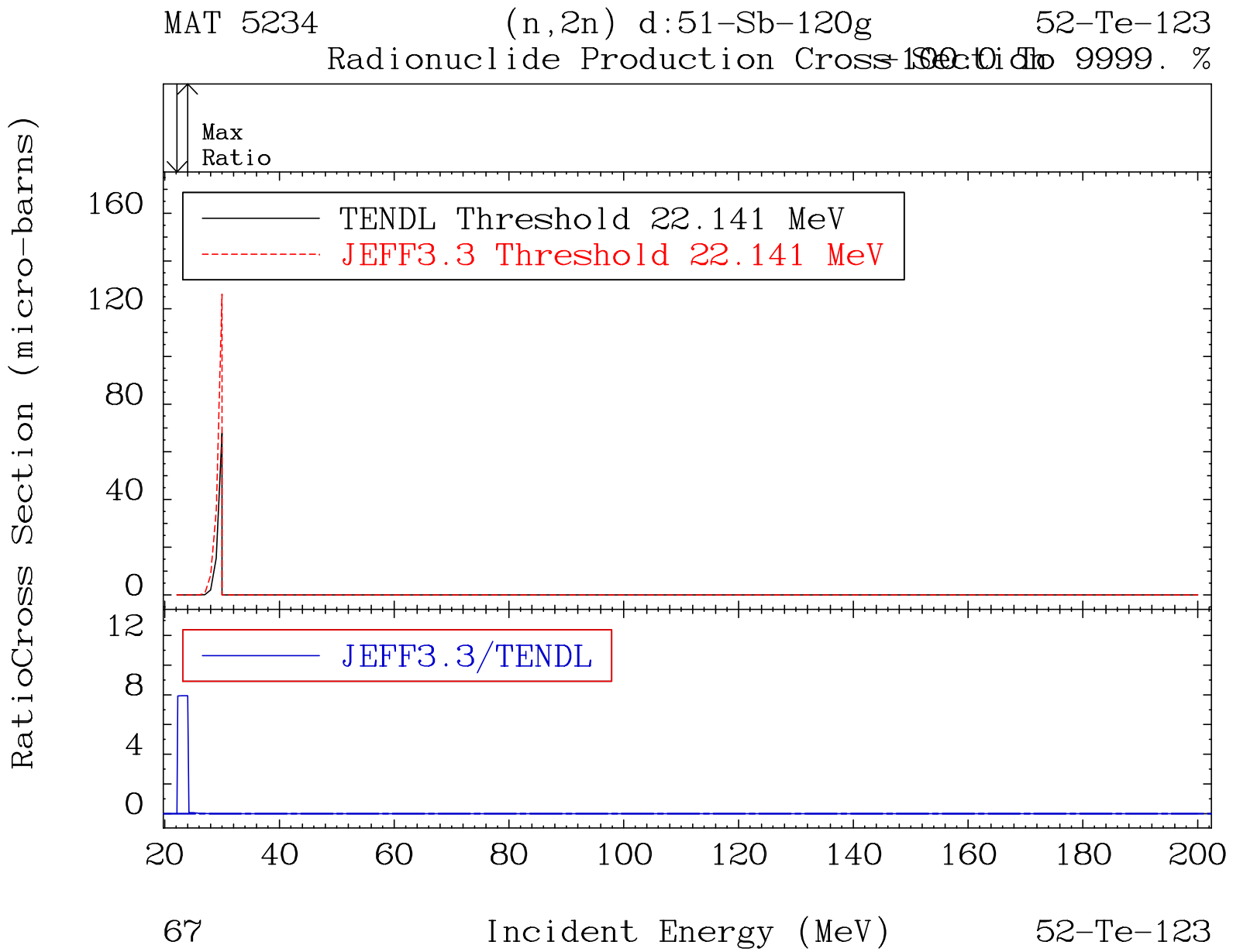

MAT 5234
Dpa elastic (mt2)
Cross Section
52-Te-123
-99.78 To 9999. %
Min
Ratio
TENDL Threshold 740.05 eV
JEFF3.3 Threshold 740.05 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
52-Te-123

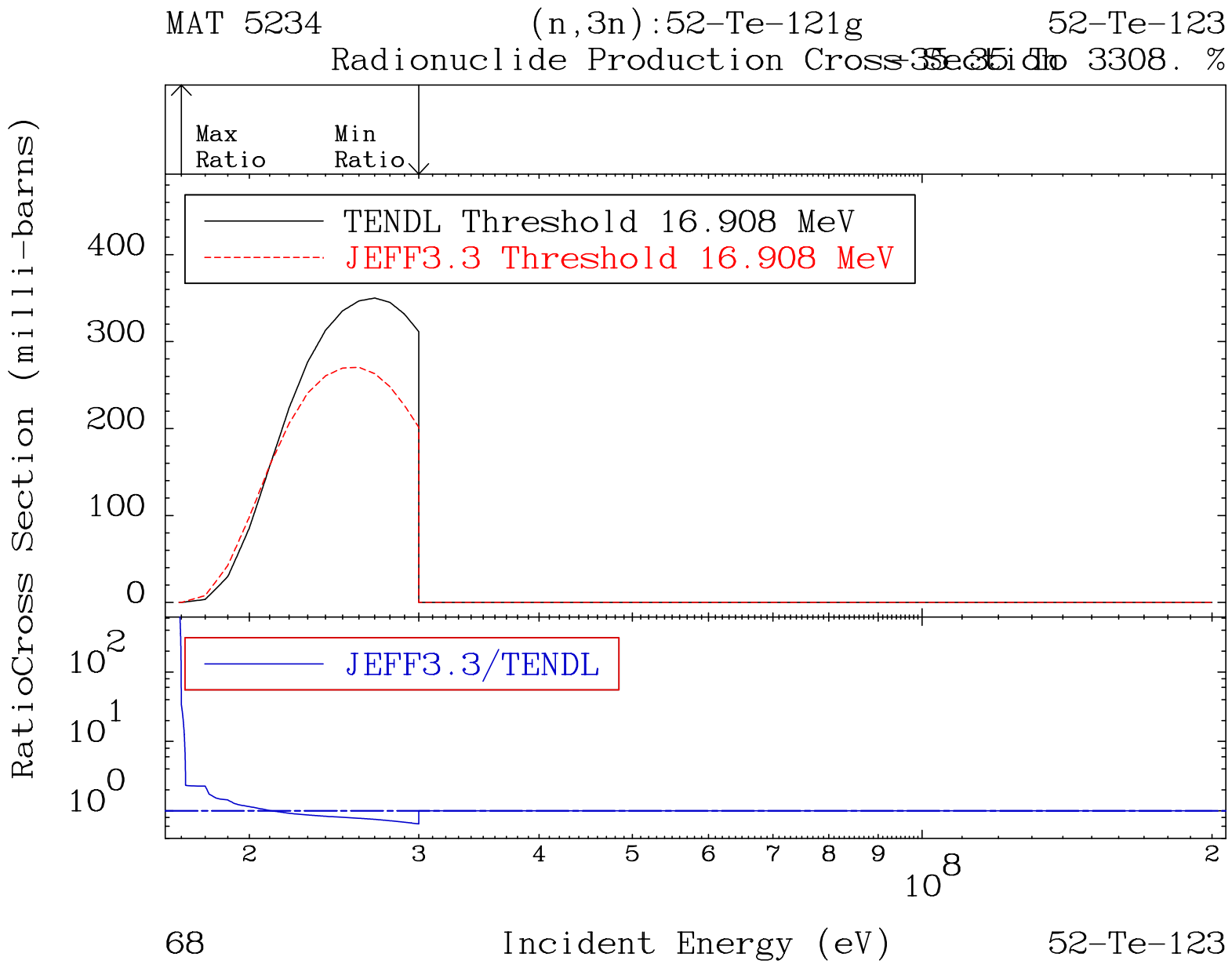

MAT 5234
Dpa inelastic (mt51-91)
52-Te-123
Cross Section -13.04 To 4.389 %
Min Ratio
Max Ratio
TENDL Threshold 184.23 keV
JEFF3.3 Threshold 160.33 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
63
52-Te-123

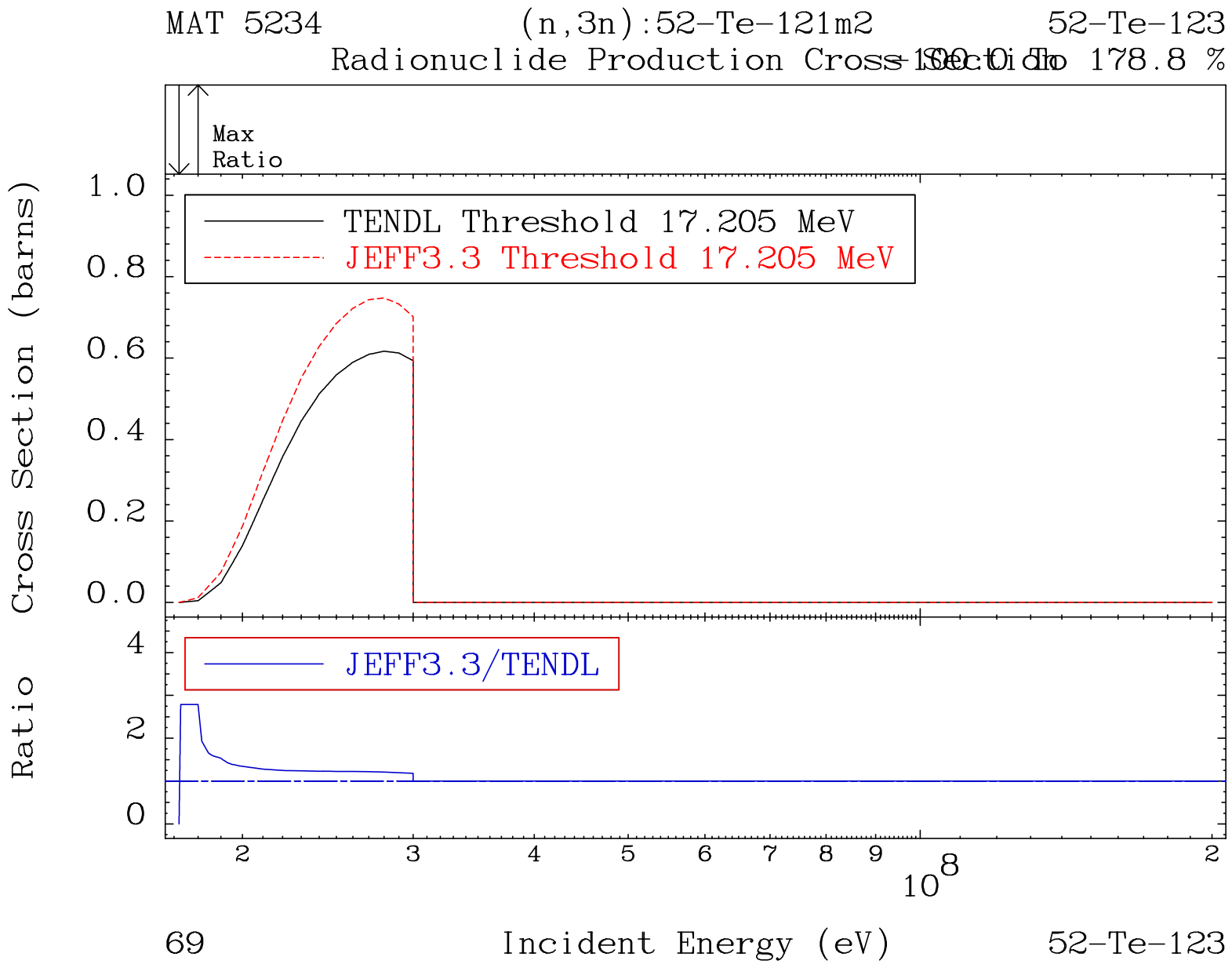

MAT 5234 Dpa disappearance (mt102 -120) 52-Te-123
Cross Section -99.84 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
64
52-Te-123

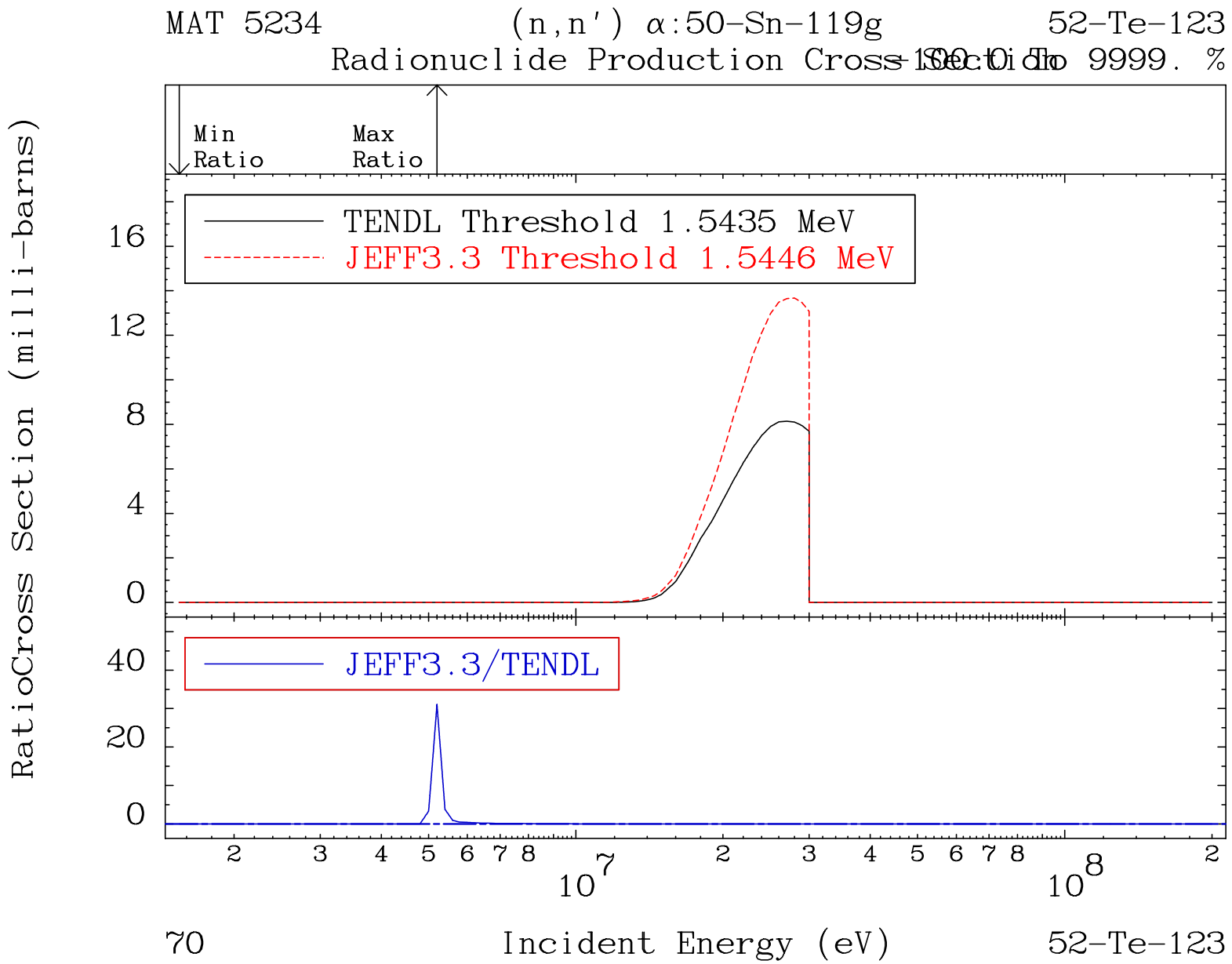

MAT 5234
Inelastic:52-Te-123g
52-Te-123
Radionuclide Production Cross Section To 2.056 %
Min Ratio
Max Ratio
TENDL
JEFF3.3 Threshold 160.33 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
1.2
0.6
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
65
Incident Energy (eV)
52-Te-123

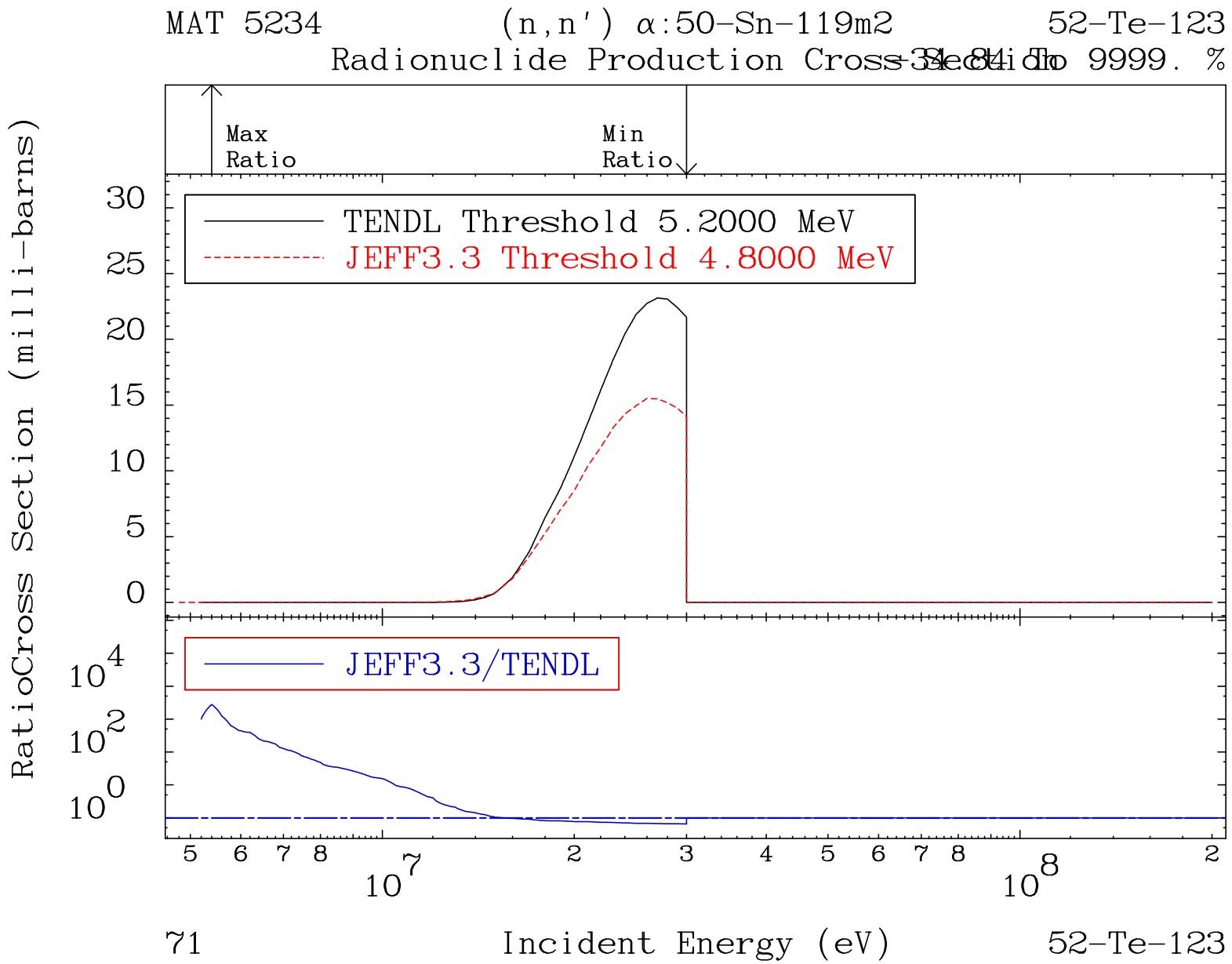

MAT 5234
Inelastic:52-Te-123m2
52-Te-123
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 249.48 keV
JEFF3.3 Threshold 249.48 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
3 4 6 8 10^6 2 3 4 6 8 10^7 2 3 4 6 8 10^8 2
66
Incident Energy (eV)
52-Te-123

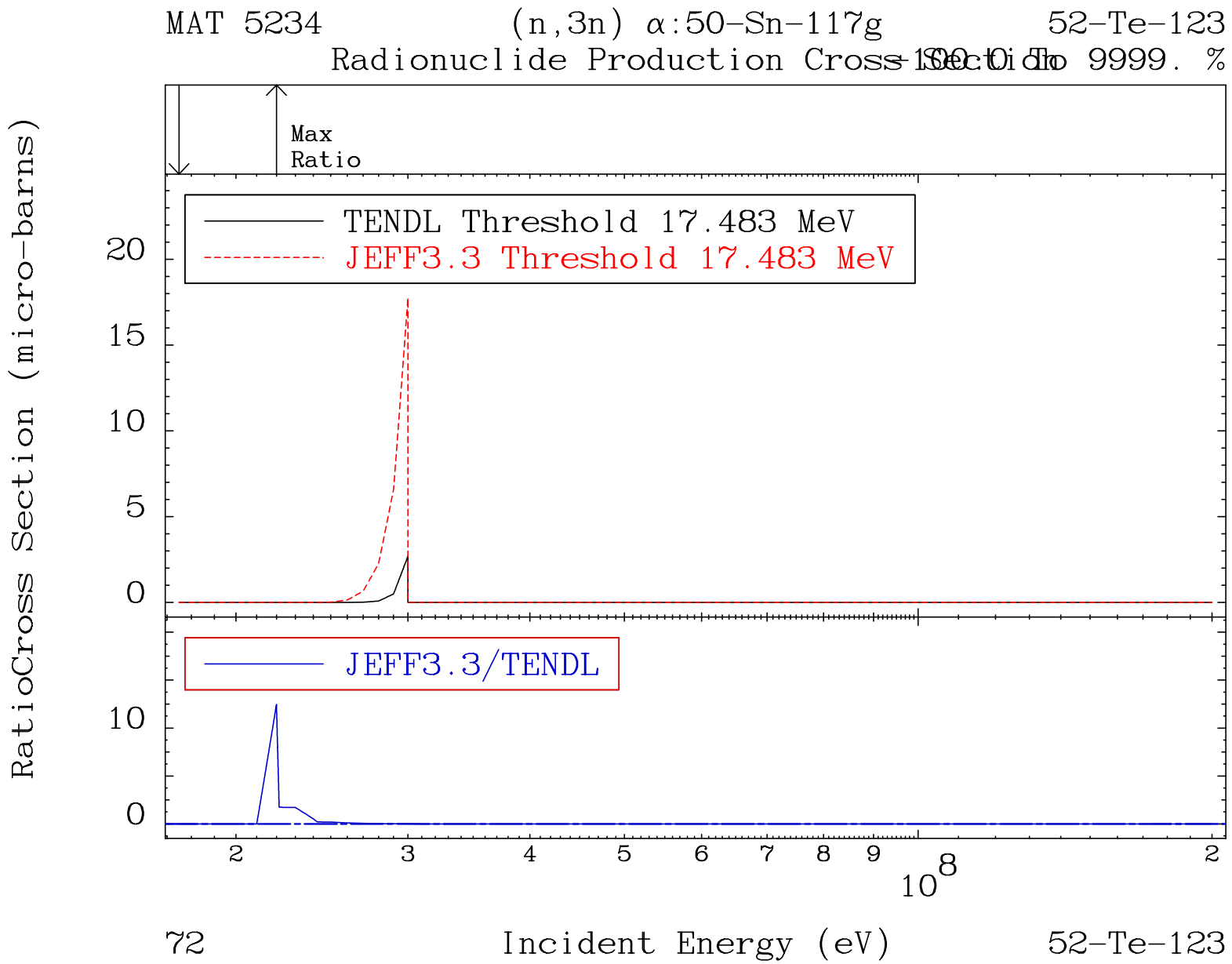

MAT 5234
(n,2n) d:51-Sb-120g
52-Te-123
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 22.141 MeV
JEFF3.3 Threshold 22.141 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
160
120
80
40
0
12
8
4
0
20
40
60
80
100
120
140
160
180
200
67
Incident Energy (MeV)
52-Te-123

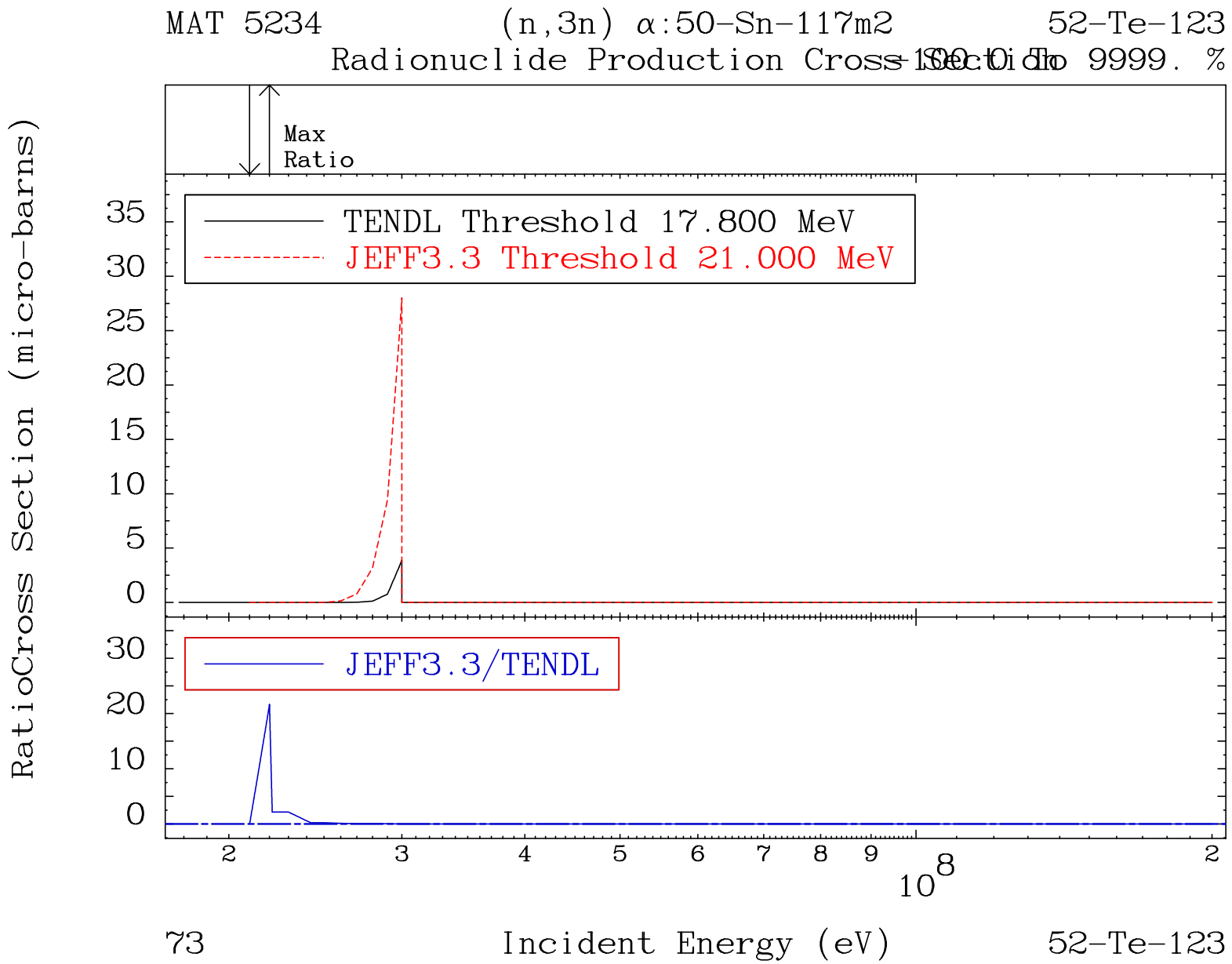

MAT 5234
(n,3n):52-Te-121g
52-Te-123
Radionuclide Production Cross Section To 3308. %
Max Ratio
Min Ratio
TENDL Threshold 16.908 MeV
JEFF3.3 Threshold 16.908 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
68
Incident Energy (eV)
52-Te-123

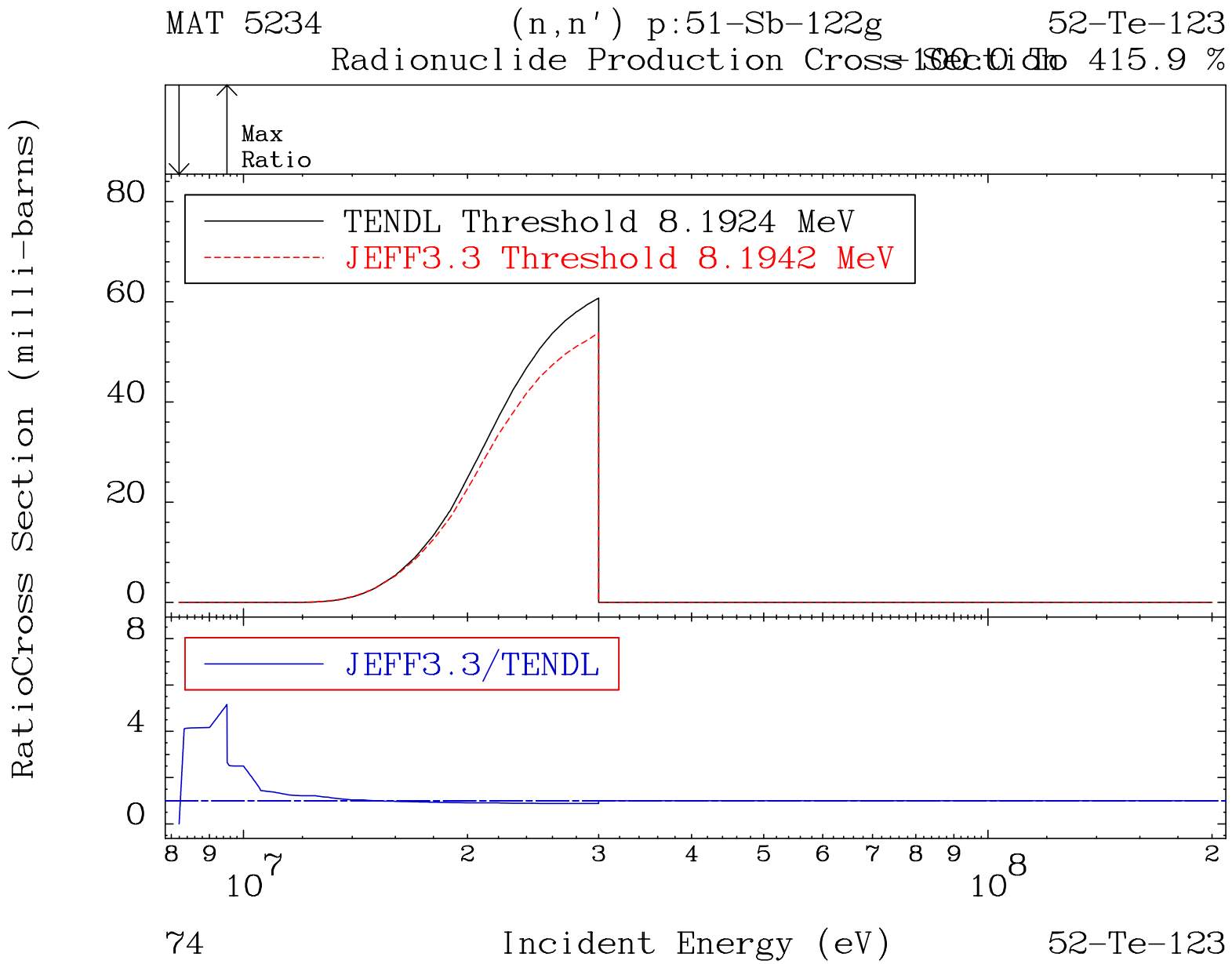

MAT 5234
(n,3n):52-Te-121m2
52-Te-123
Radionuclide Production Cross Section
Max
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
TENDL Threshold 17.205 MeV
JEFF3.3 Threshold 17.205 MeV
Cross Section (barns)
4
2
0
JEFF3.3/TENDL
Ratio
2
3
4
5
6
7
8
9
2
10^8
69
Incident Energy (eV)
52-Te-123

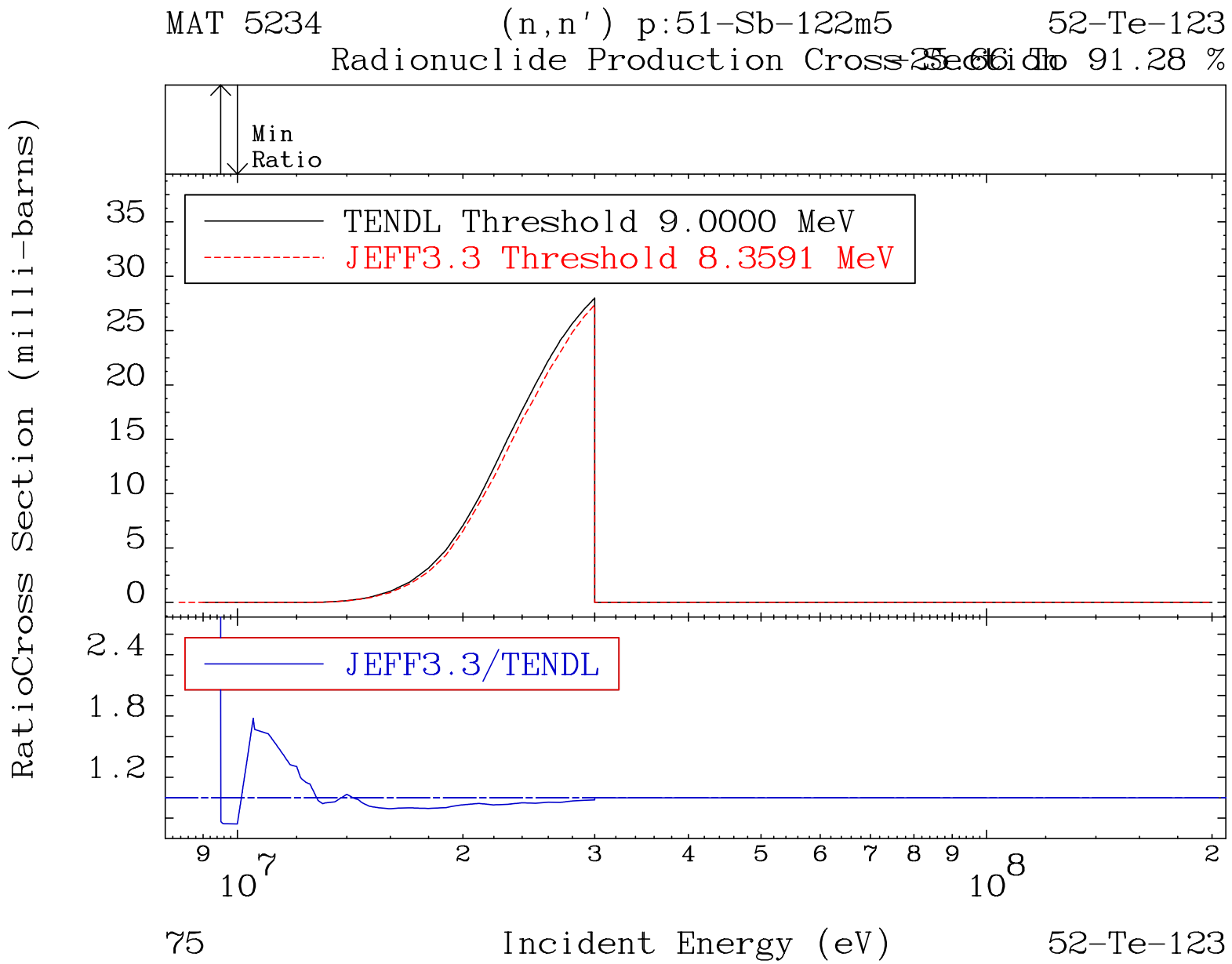

MAT 5234
(n,n') α:50-Sn-119g
52-Te-123
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.5435 MeV
JEFF3.3 Threshold 1.5446 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
40
20
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
70
Incident Energy (eV)
52-Te-123

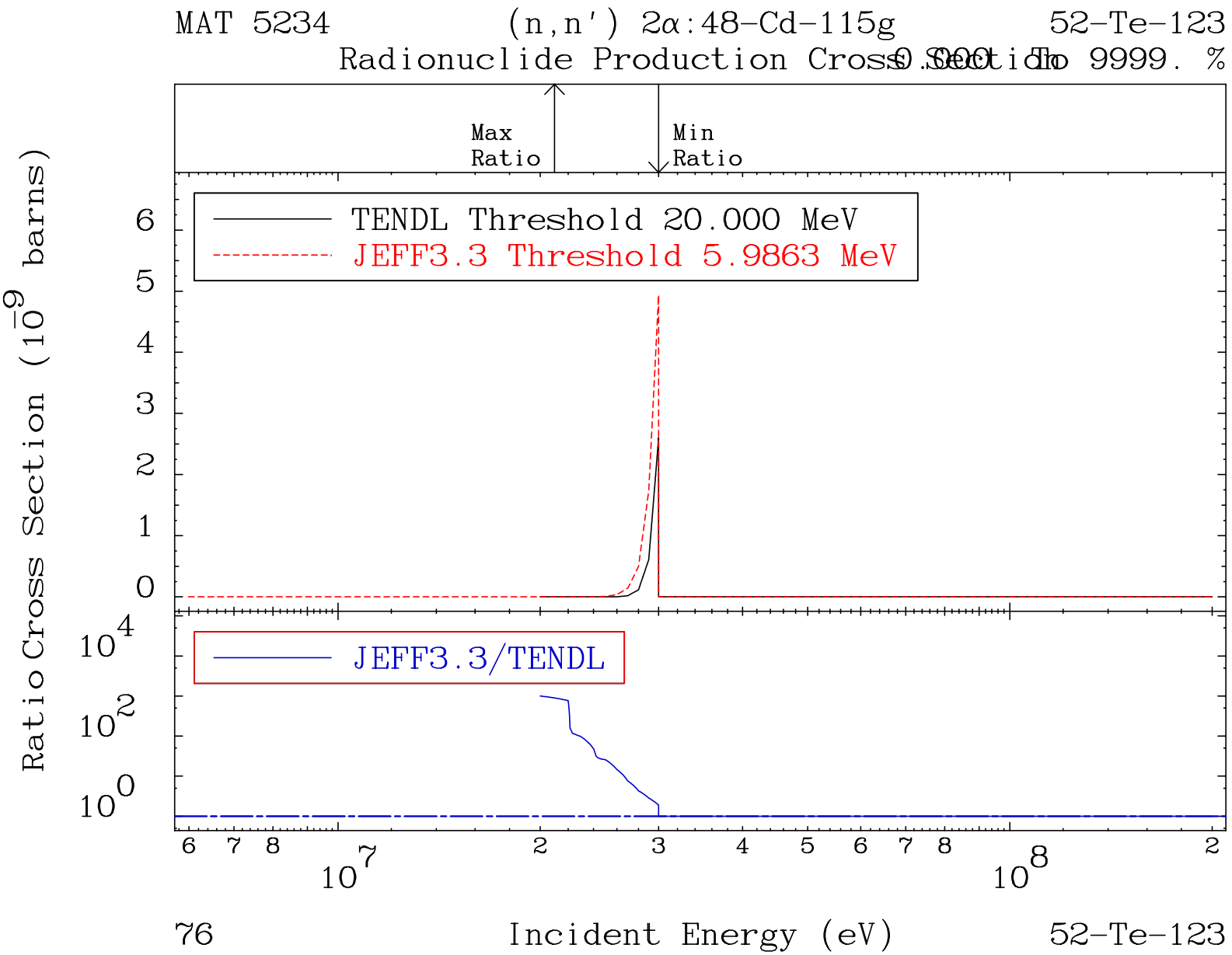

MAT 5234
(n,n') α:50-Sn-119m2
52-Te-123
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.2000 MeV
JEFF3.3 Threshold 4.8000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
71
52-Te-123

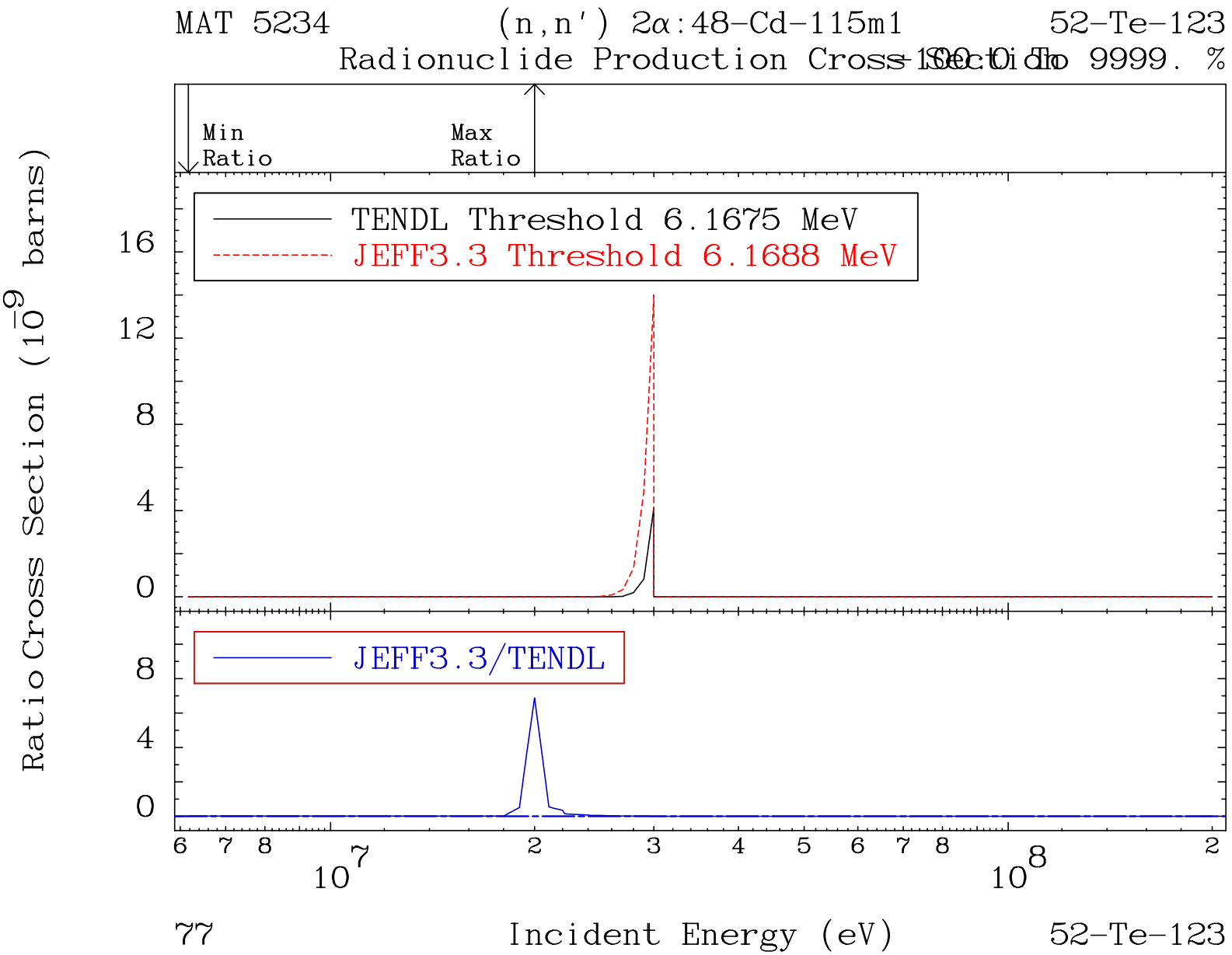

MAT 5234
(n,3n) α:50-Sn-117g
52-Te-123
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 17.483 MeV
JEFF3.3 Threshold 17.483 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
20
15
10
5
0
10
0
2
3
4
5
6
7
8
9
10^8
2
72
Incident Energy (eV)
52-Te-123

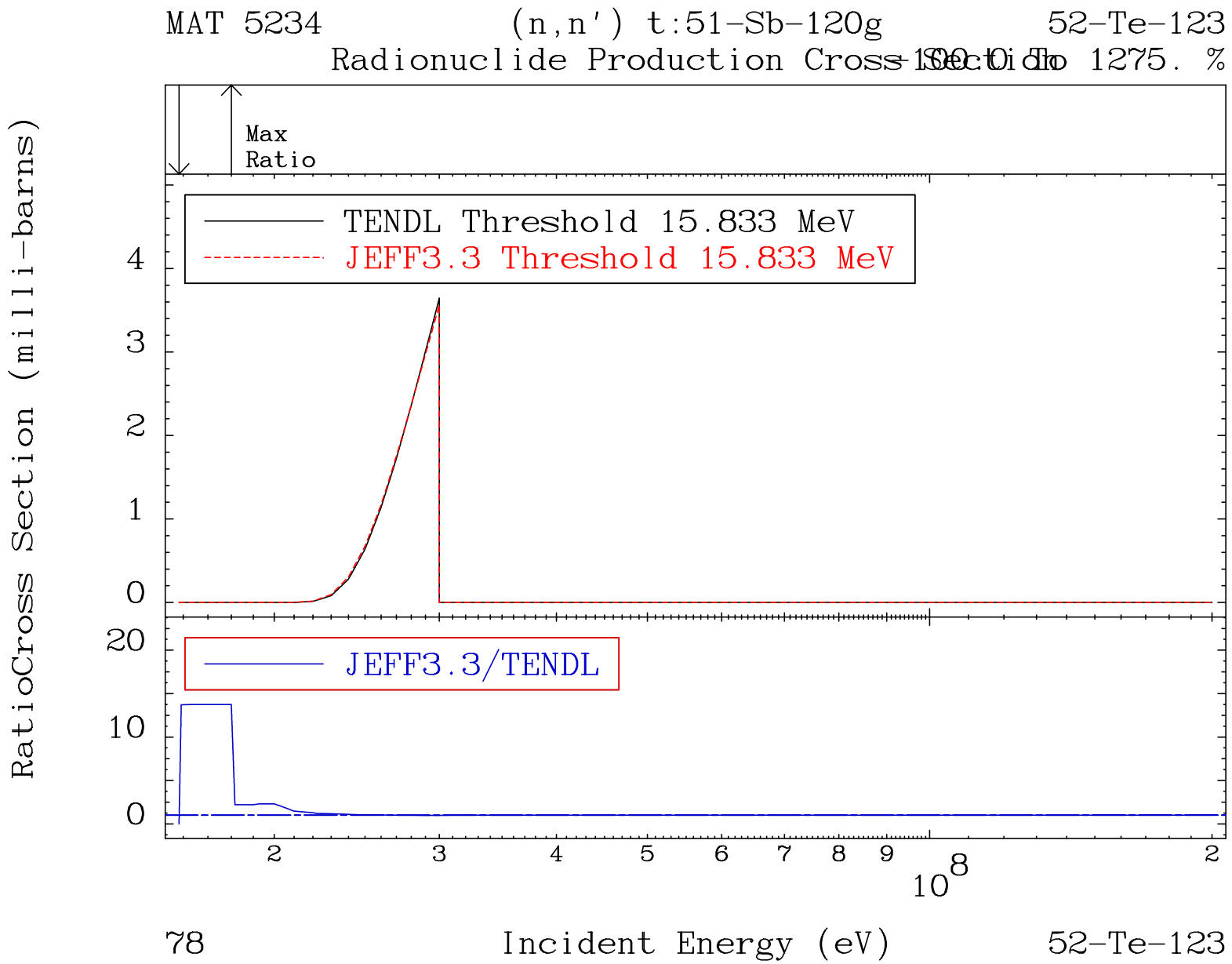

MAT 5234
(n,3n) α:50-Sn-117m2
52-Te-123
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 17.800 MeV
JEFF3.3 Threshold 21.000 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
35
30
25
20
15
10
5
0
30
20
10
0
2
3
4
5
6
7
8
9
10^8
2
73
Incident Energy (eV)
52-Te-123

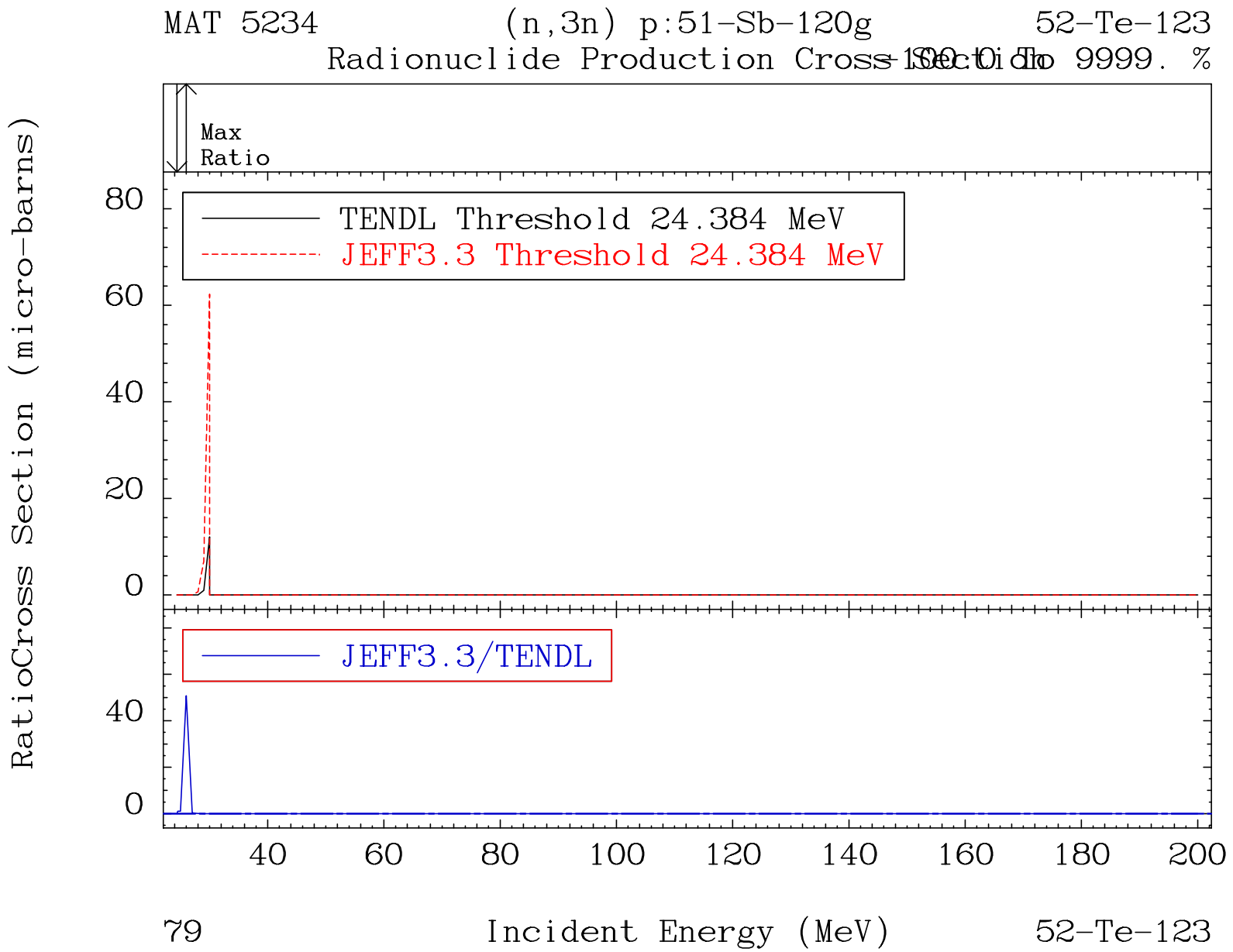

MAT 5234
(n,n') p:51-Sb-122g
52-Te-123
Radionuclide Production Cross Section To 415.9 %
Max
Ratio
TENDL Threshold 8.1924 MeV
JEFF3.3 Threshold 8.1942 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
8
4
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
74
Incident Energy (eV)
52-Te-123

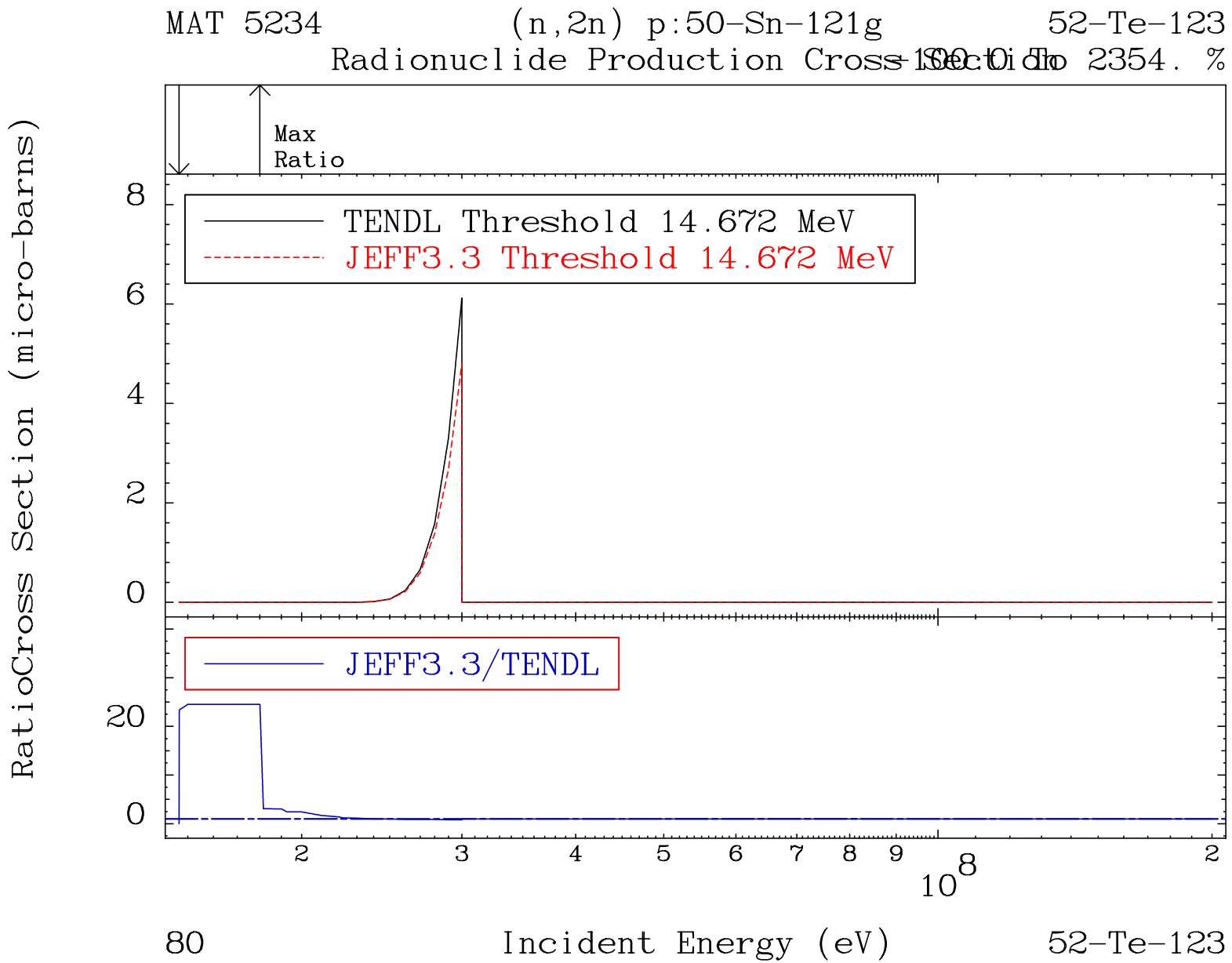

MAT 5234 (n,n') p:51-Sb-122m5 52-Te-123
Radionuclide Production Cross-Section To 91.28 %
Min
Ratio
TENDL Threshold 9.0000 MeV
JEFF3.3 Threshold 8.3591 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
2.4
1.8
1.2
9
10^7
2
3
4
5
6
7
8
9
10^8
2
75
Incident Energy (eV)
52-Te-123

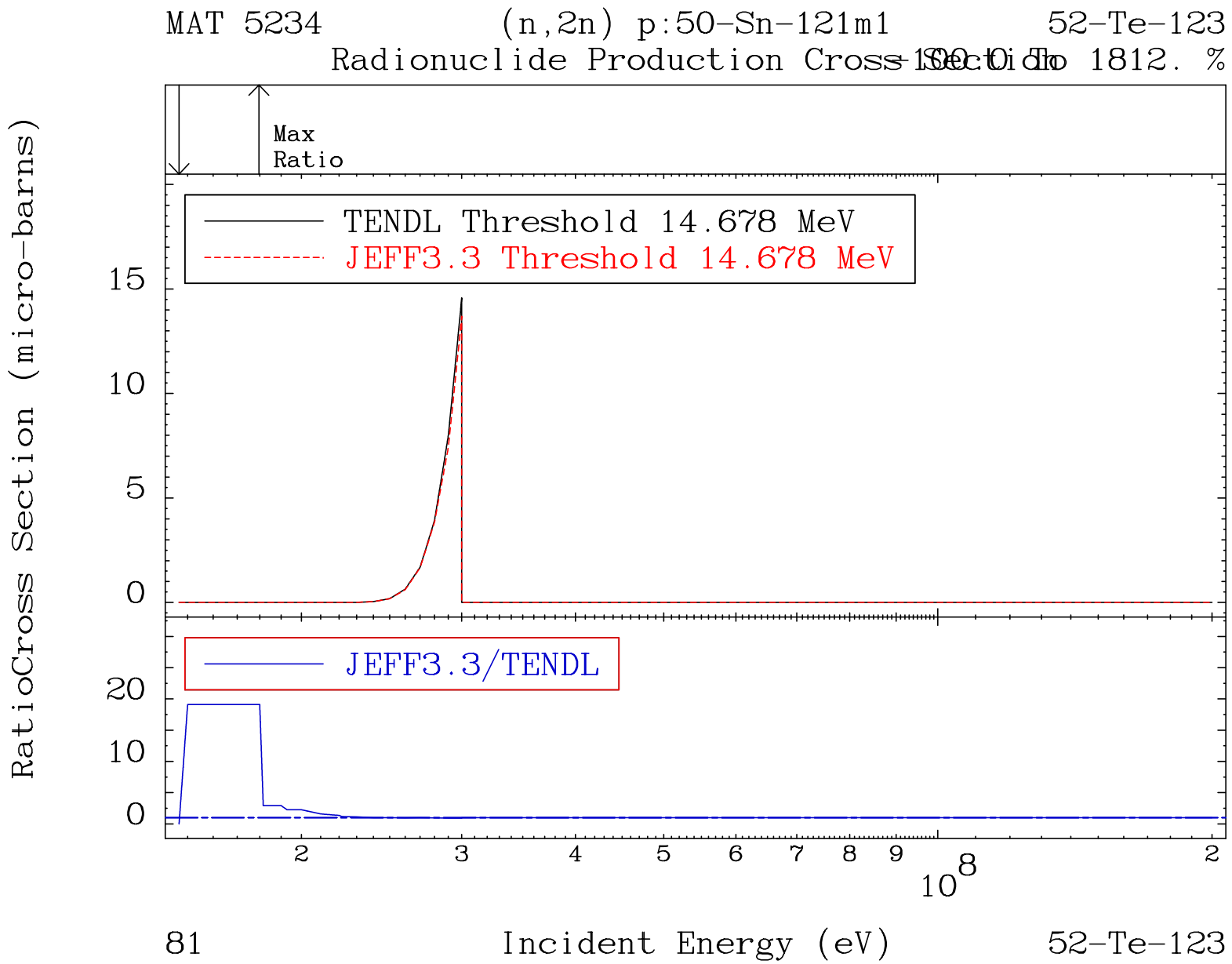

MAT 5234
(n,n') 2α:48-Cd-115g
52-Te-123
Radionuclide Production Cross Section
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 20.000 MeV
JEFF3.3 Threshold 5.9863 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
Incident Energy (eV)
76
52-Te-123

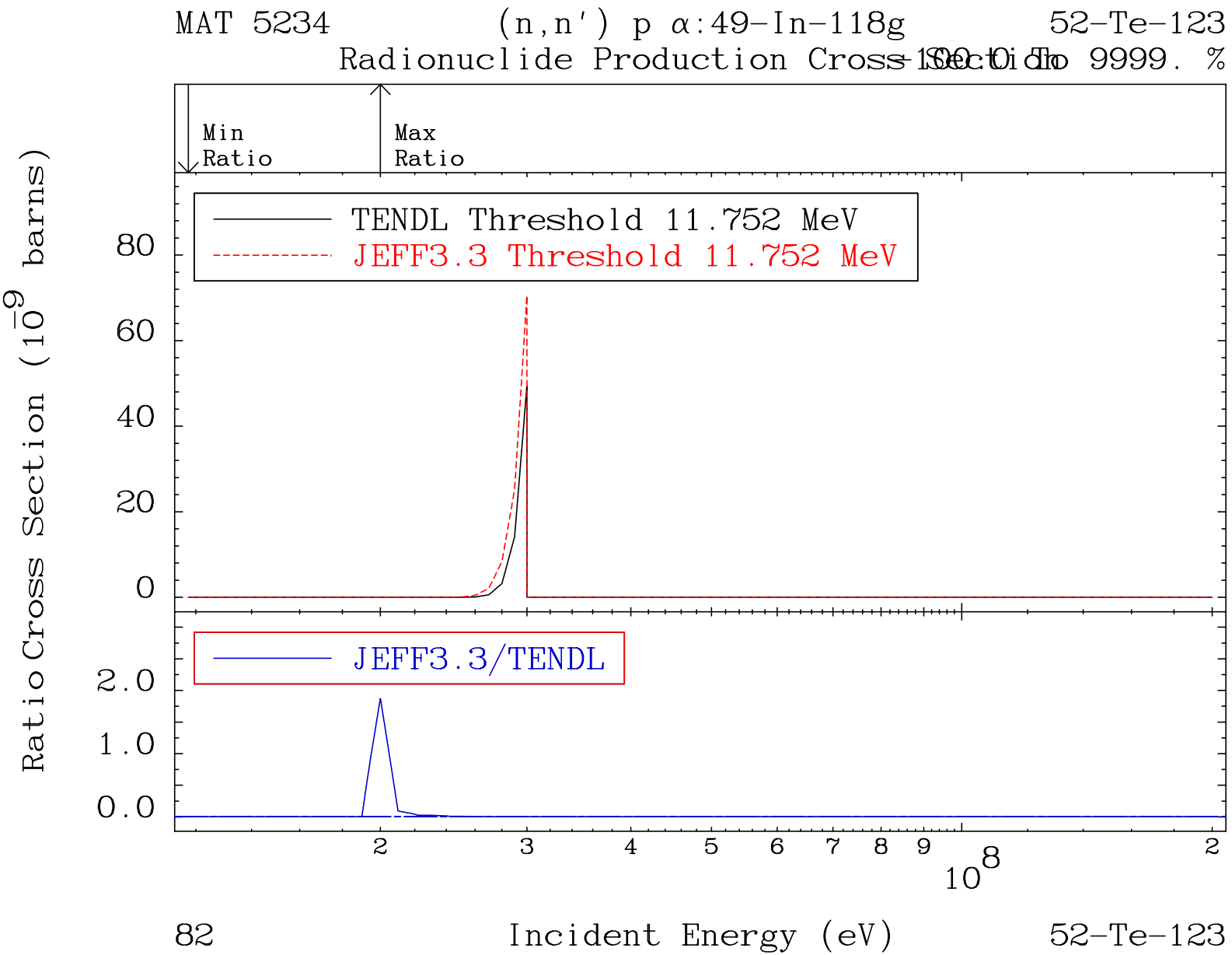

MAT 5234
(n,n') 2α:48-Cd-115m1
52-Te-123
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.1675 MeV
JEFF3.3 Threshold 6.1688 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
16
12
8
4
0
8
4
0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
77
Incident Energy (eV)
52-Te-123

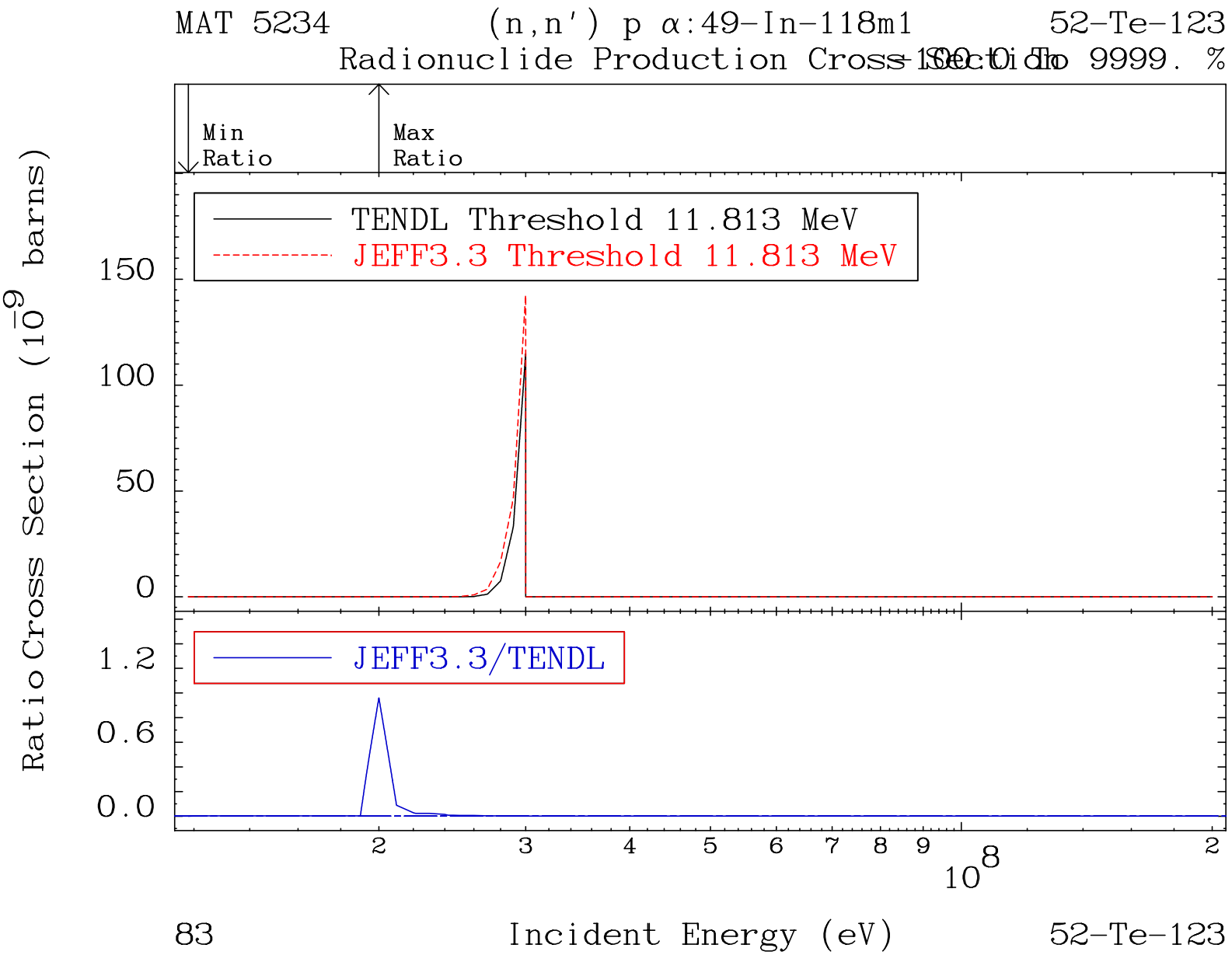

MAT 5234
(n,n') t:51-Sb-120g
52-Te-123
Radionuclide Production Cross Section to 1275. %
Max
Ratio
TENDL Threshold 15.833 MeV
JEFF3.3 Threshold 15.833 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
78
52-Te-123

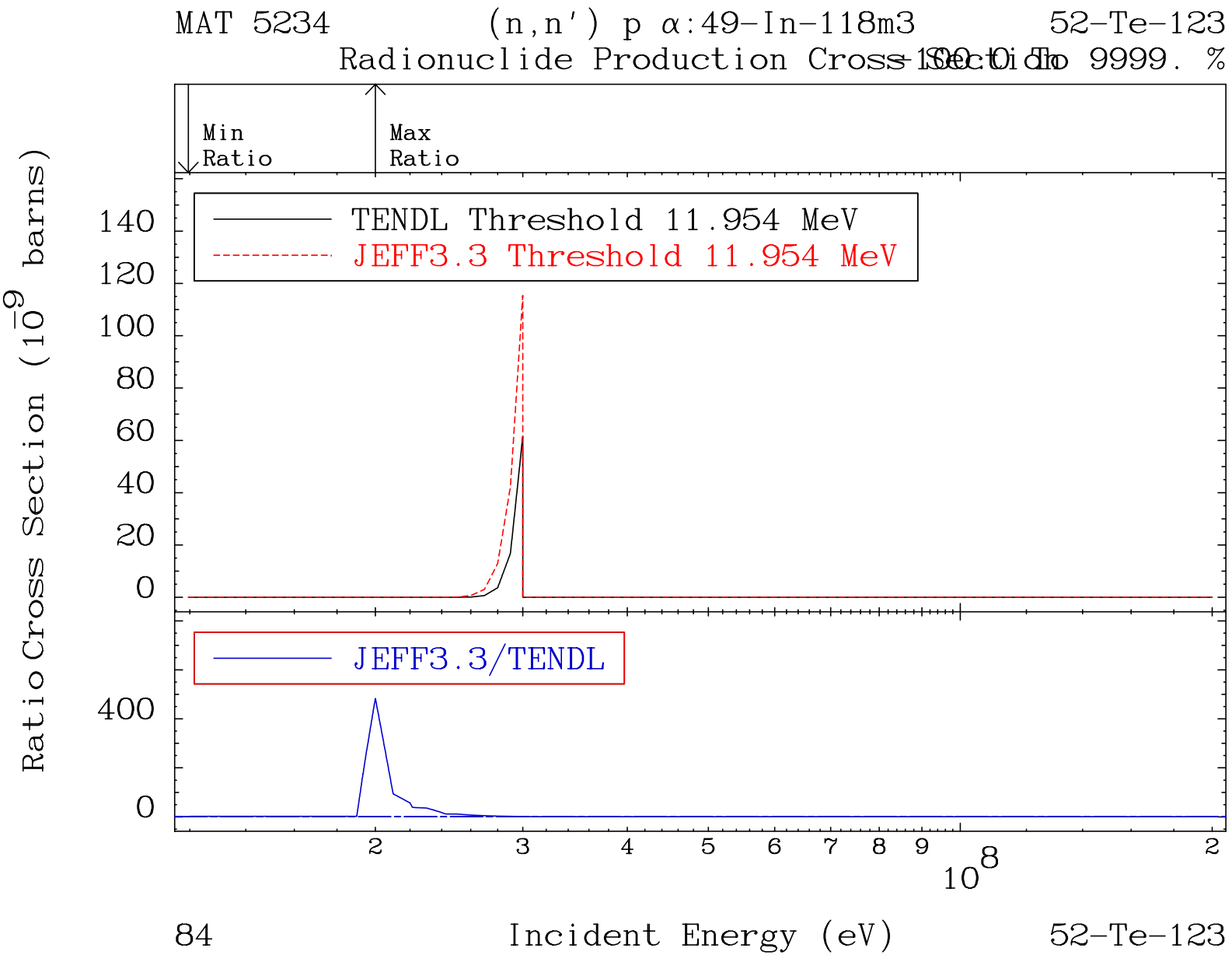

MAT 5234
(n,3n) p:51-Sb-120g
52-Te-123
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 24.384 MeV
JEFF3.3 Threshold 24.384 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
80
60
40
20
0
40
0
40
60
80
100
120
140
160
180
200
79
Incident Energy (MeV)
52-Te-123

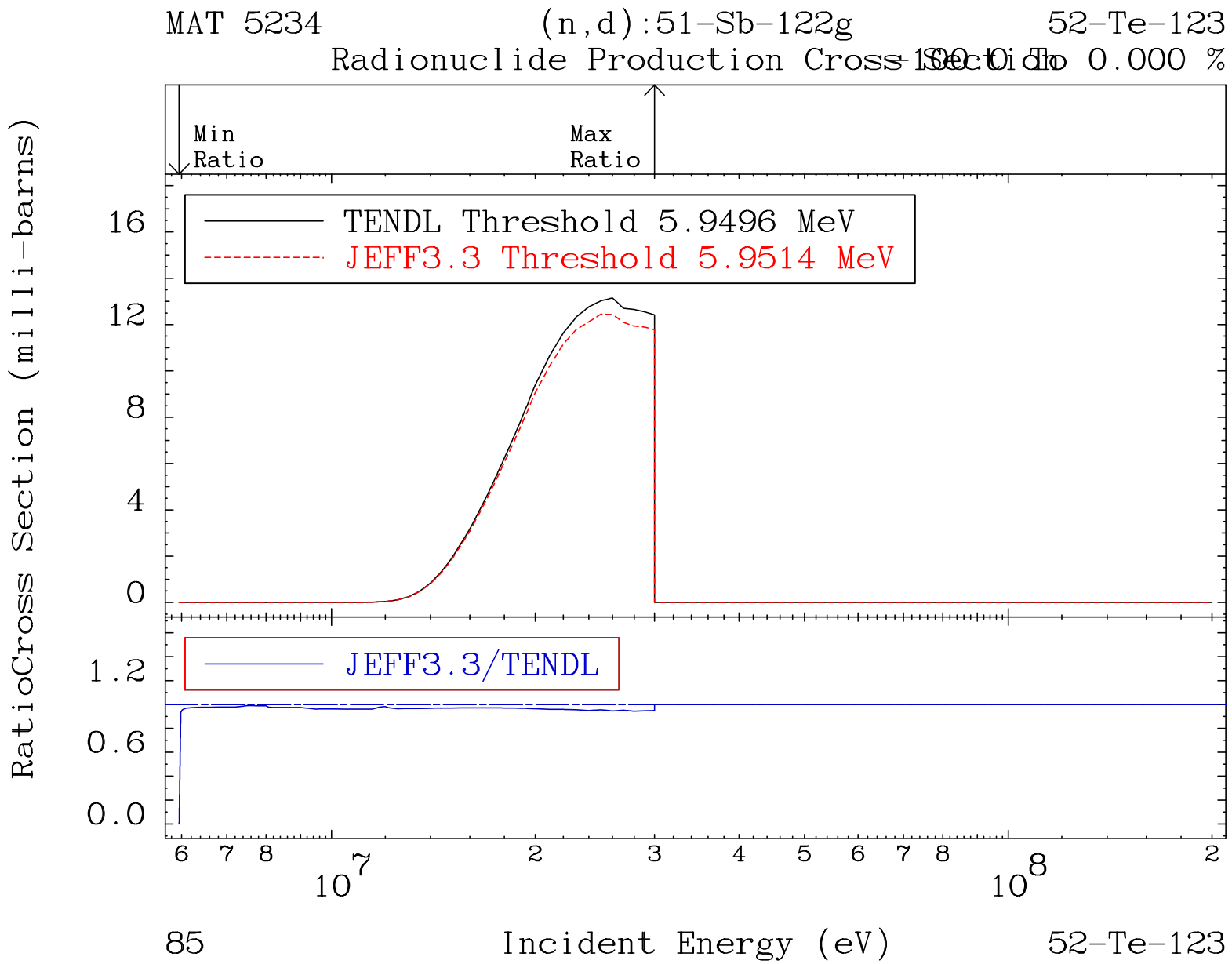

MAT 5234
(n,2n) p:50-Sn-121g
52-Te-123
Radionuclide Production Cross Section To 2354. %
Max
Ratio
TENDL Threshold 14.672 MeV
JEFF3.3 Threshold 14.672 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
8
6
4
2
0
20
0
2
3
4
5
6
7
8
9
10^8
2
80
Incident Energy (eV)
52-Te-123

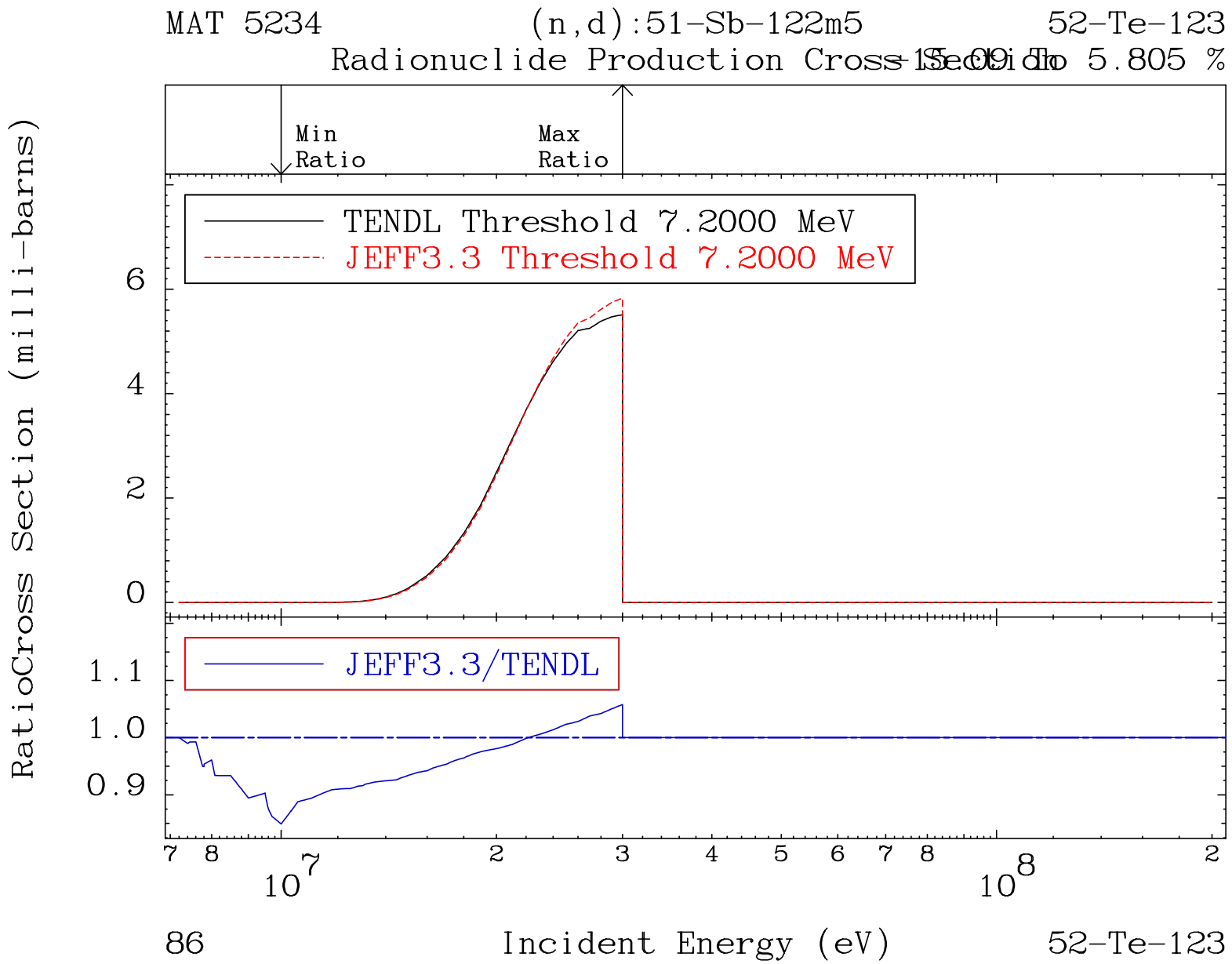

MAT 5234
(n,2n) p:50-Sn-121m1
52-Te-123
Radionuclide Production Cross Section
Max Ratio
TENDL Threshold 14.678 MeV
JEFF3.3 Threshold 14.678 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
81
52-Te-123

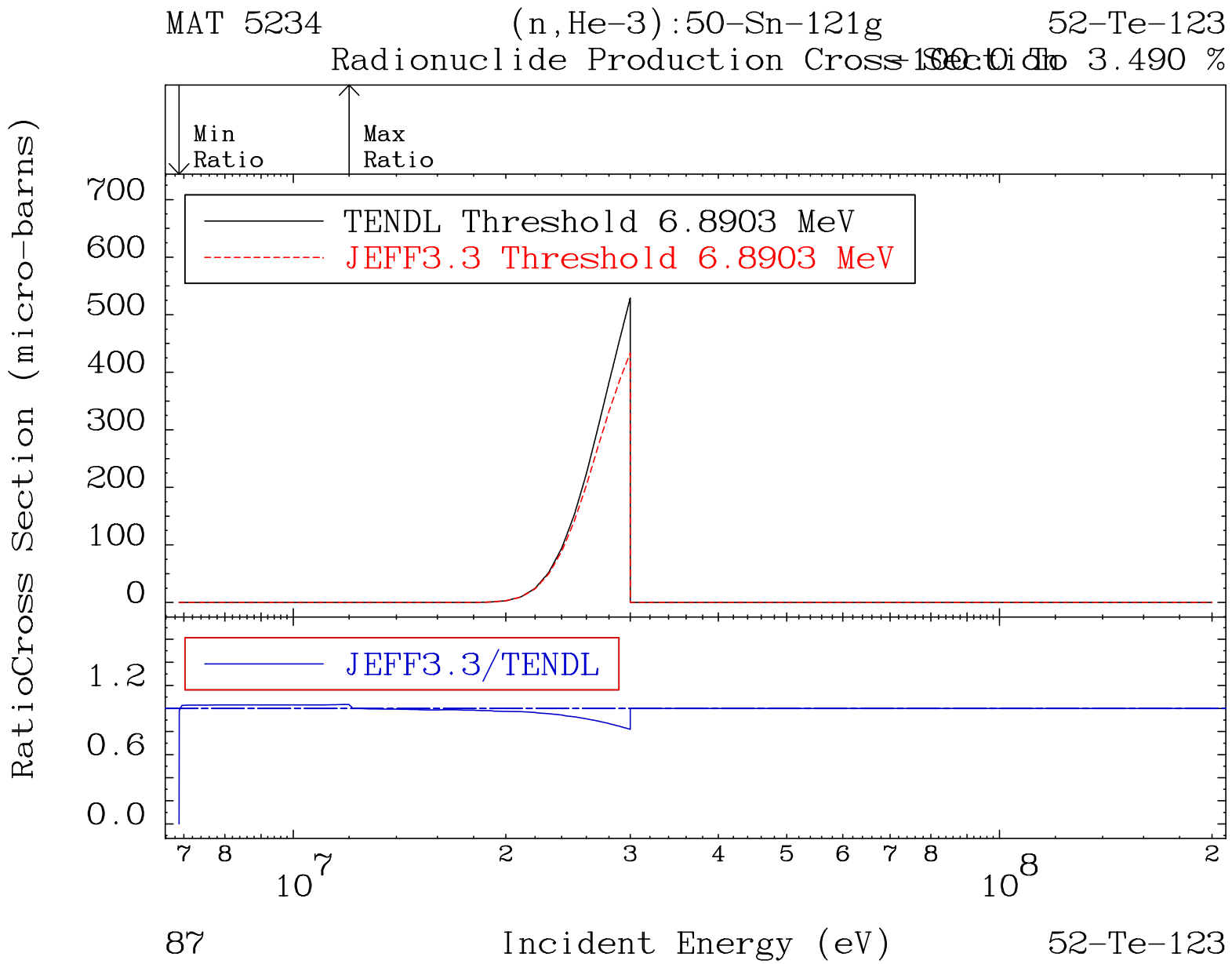

MAT 5234
(n,n') p α:49-In-118g
52-Te-123
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 11.752 MeV
JEFF3.3 Threshold 11.752 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
80
60
40
20
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
82
Incident Energy (eV)
52-Te-123

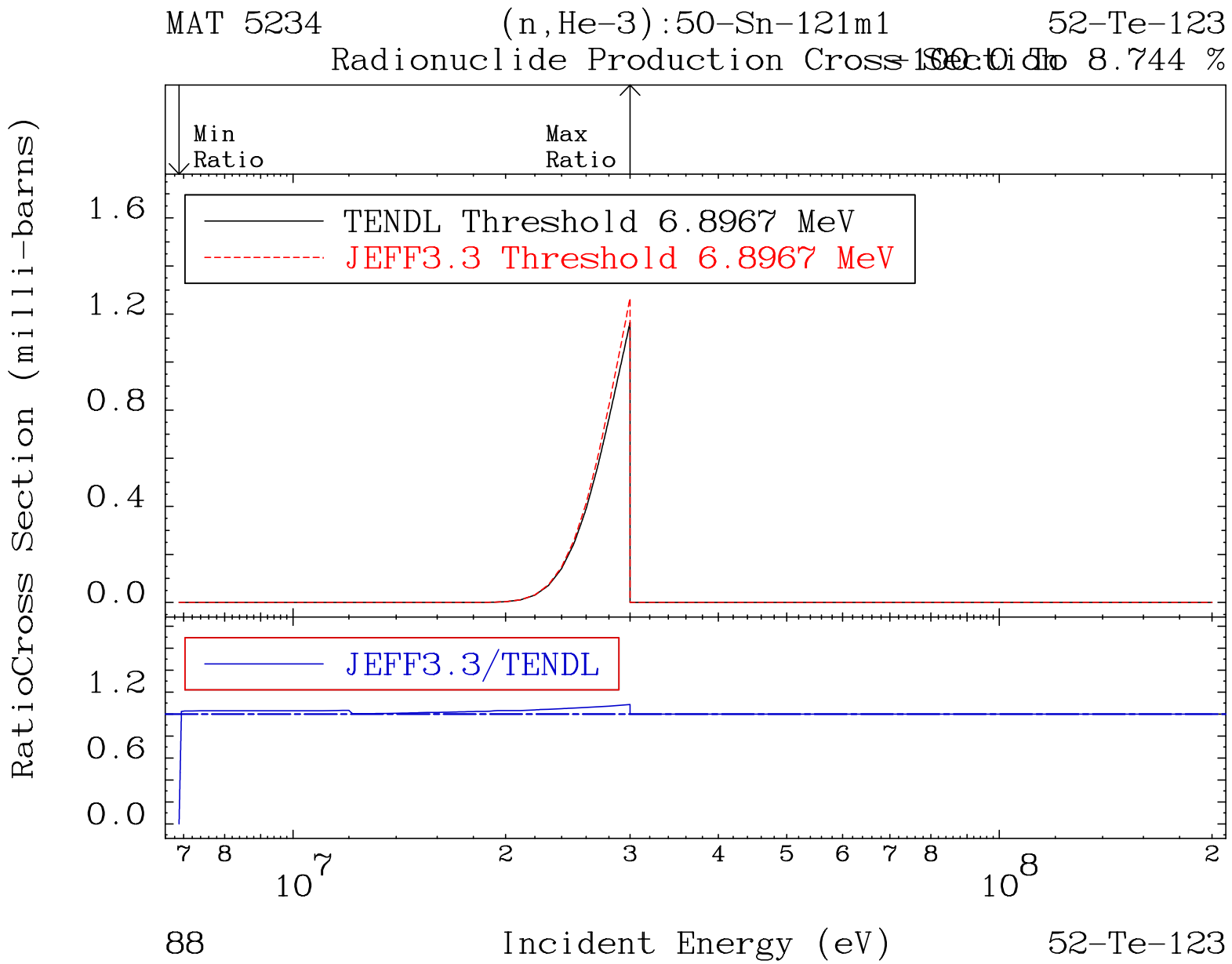

MAT 5234 (n,n') p α:49-In-118m1 52-Te-123
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 11.813 MeV
JEFF3.3 Threshold 11.813 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
150
100
50
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
52-Te-123

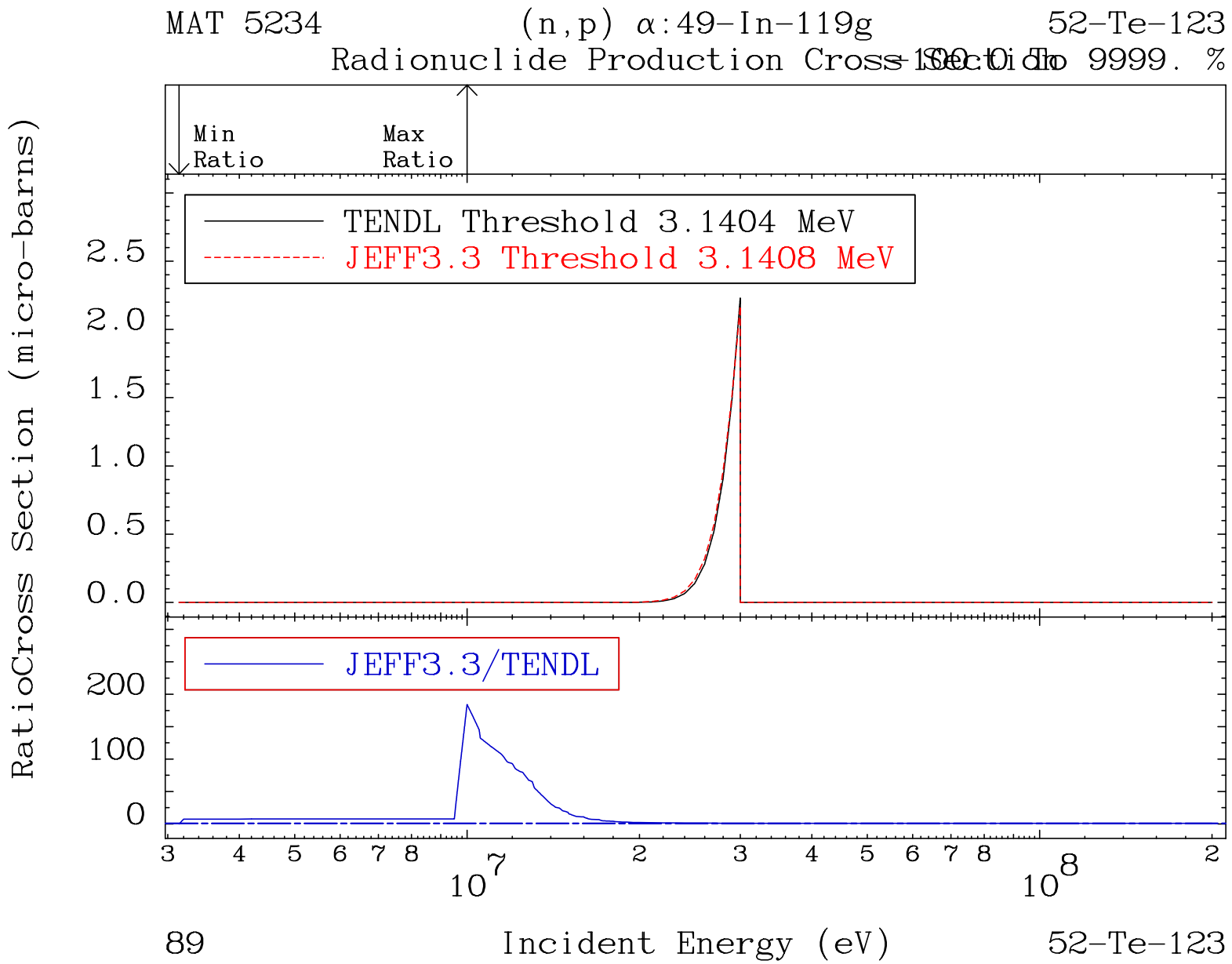

MAT 5234
(n,n') p α:49-In-118m3
52-Te-123
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 11.954 MeV
JEFF3.3 Threshold 11.954 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
140
120
100
80
60
40
20
0
400
0
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
52-Te-123

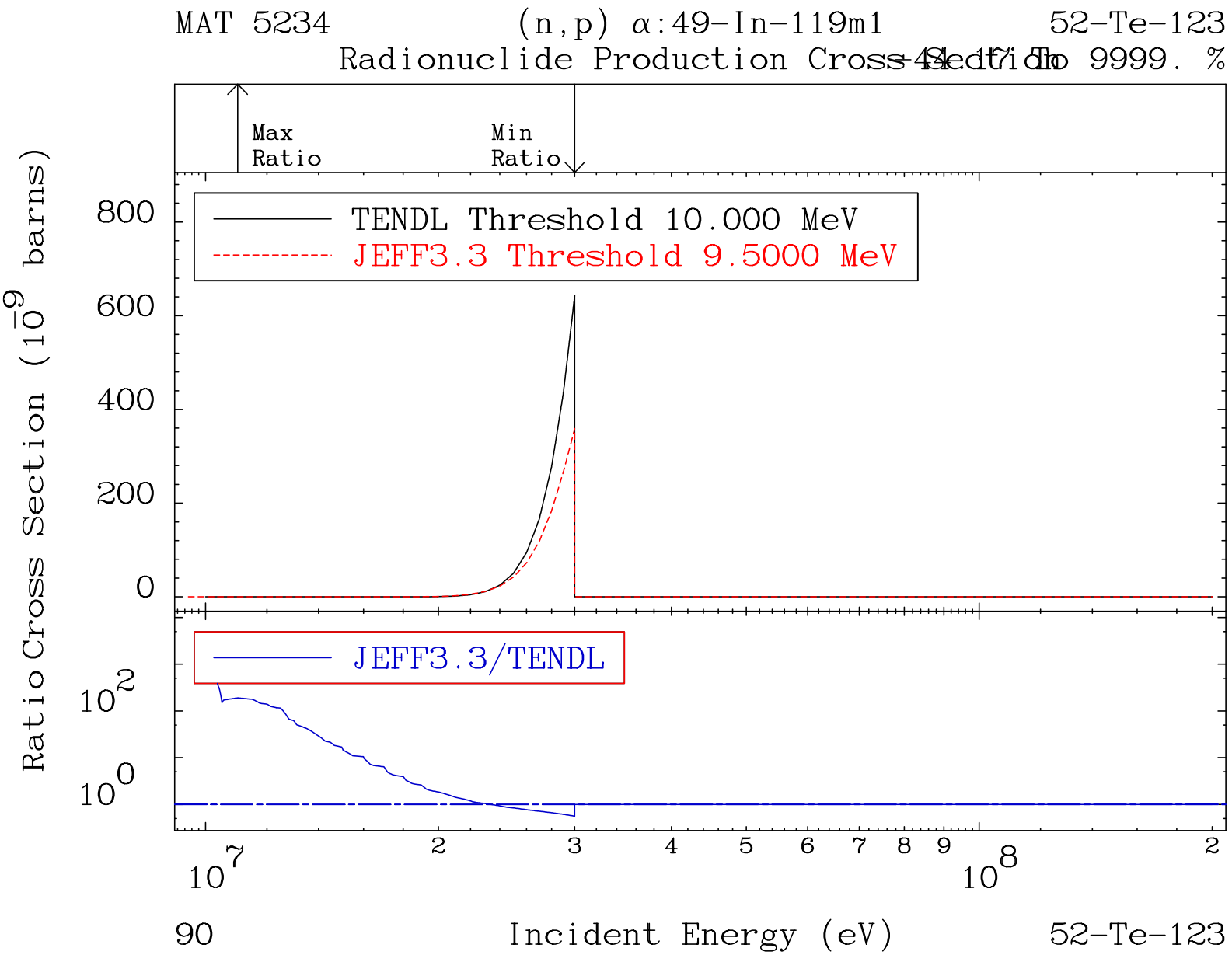

MAT 5234
(n,d):51-Sb-122g
52-Te-123
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 5.9496 MeV
JEFF3.3 Threshold 5.9514 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
1.2
0.6
0.0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
85
Incident Energy (eV)
52-Te-123

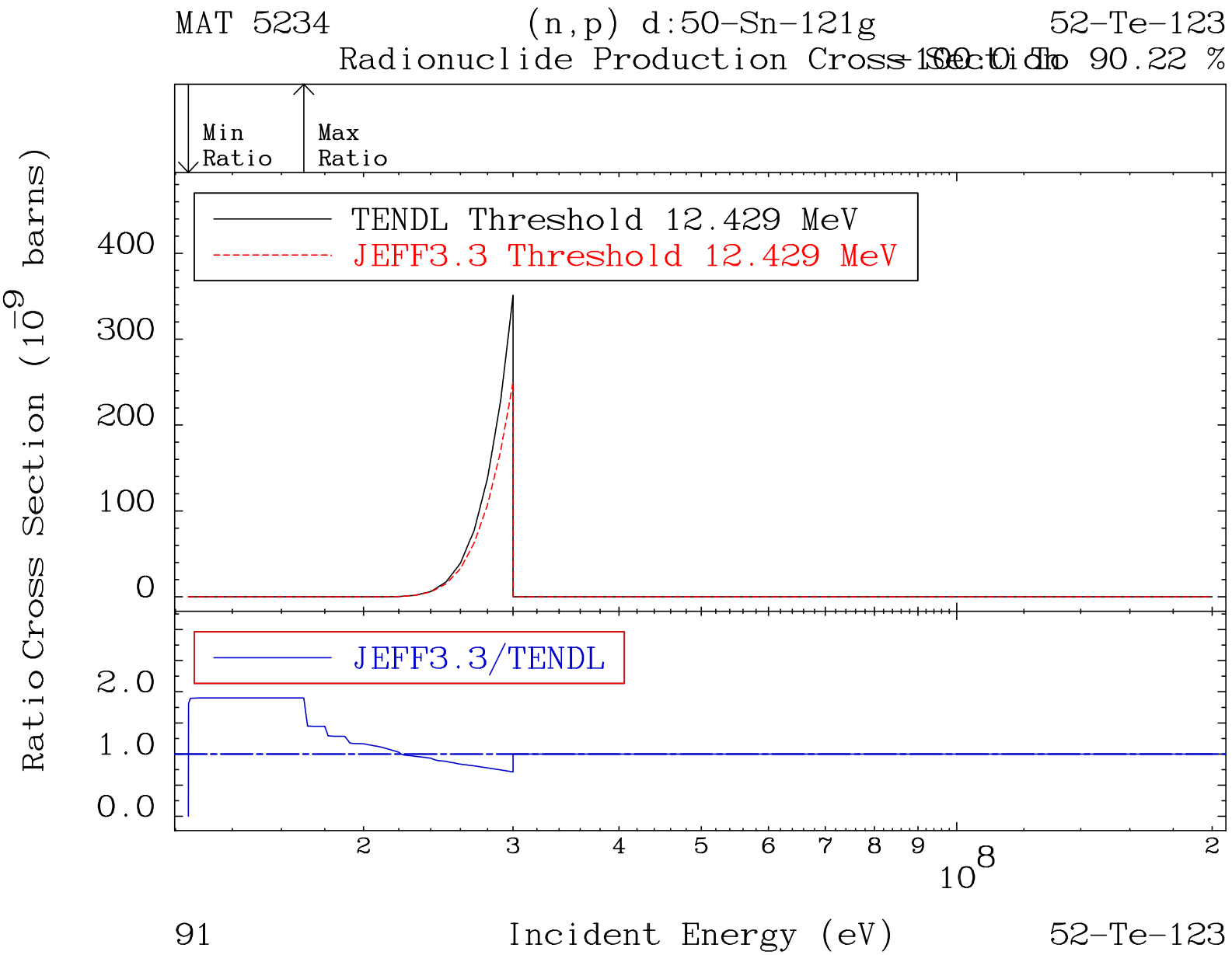

MAT 5234
(n,d):51-Sb-122m5
52-Te-123
Radionuclide Production Cross-Section To 5.805 %
Min Ratio
Max Ratio
TENDL Threshold 7.2000 MeV
JEFF3.3 Threshold 7.2000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
86
52-Te-123

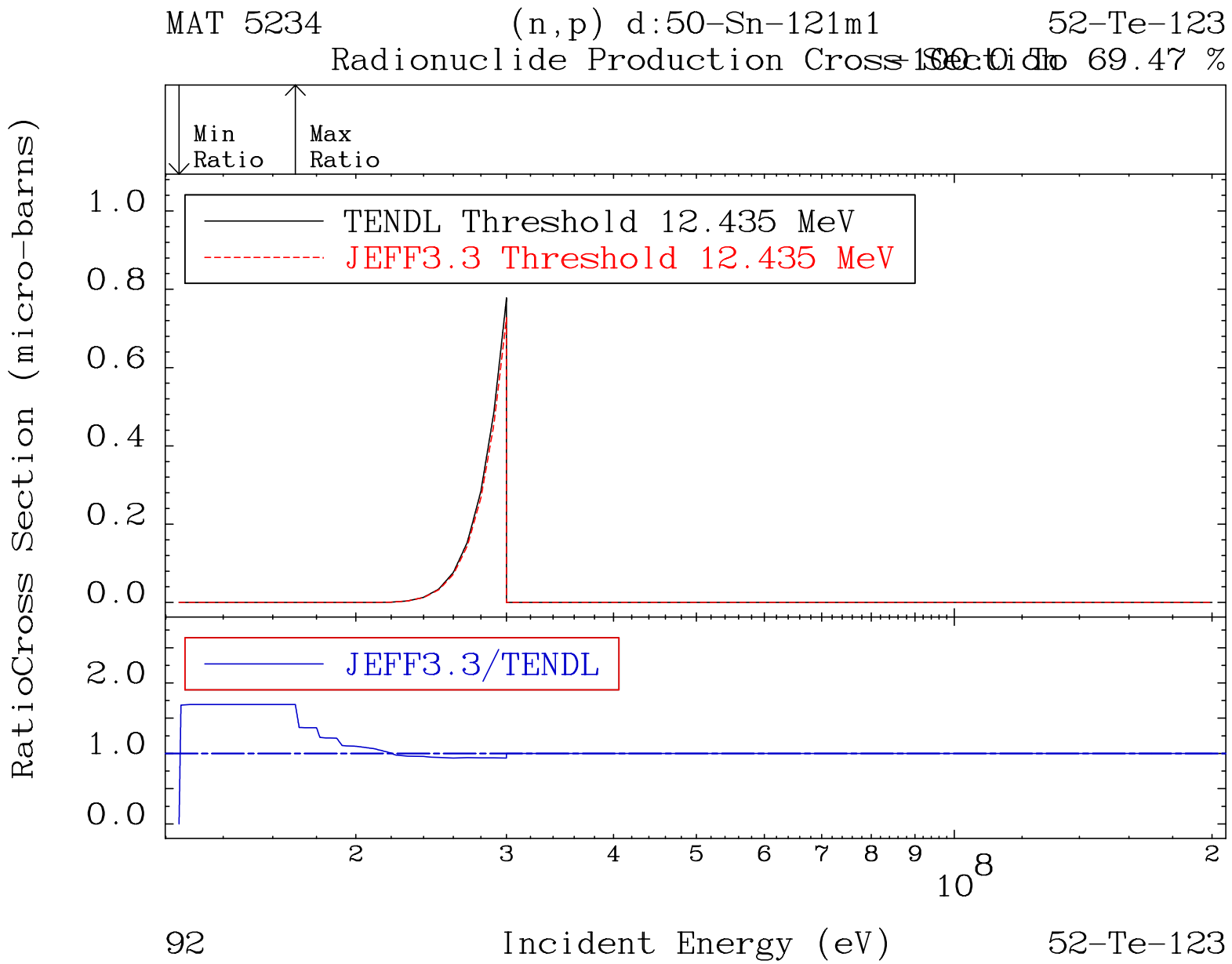

MAT 5234
(n,He-3):50-Sn-121g
52-Te-123
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 6.8903 MeV
JEFF3.3 Threshold 6.8903 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
87
52-Te-123

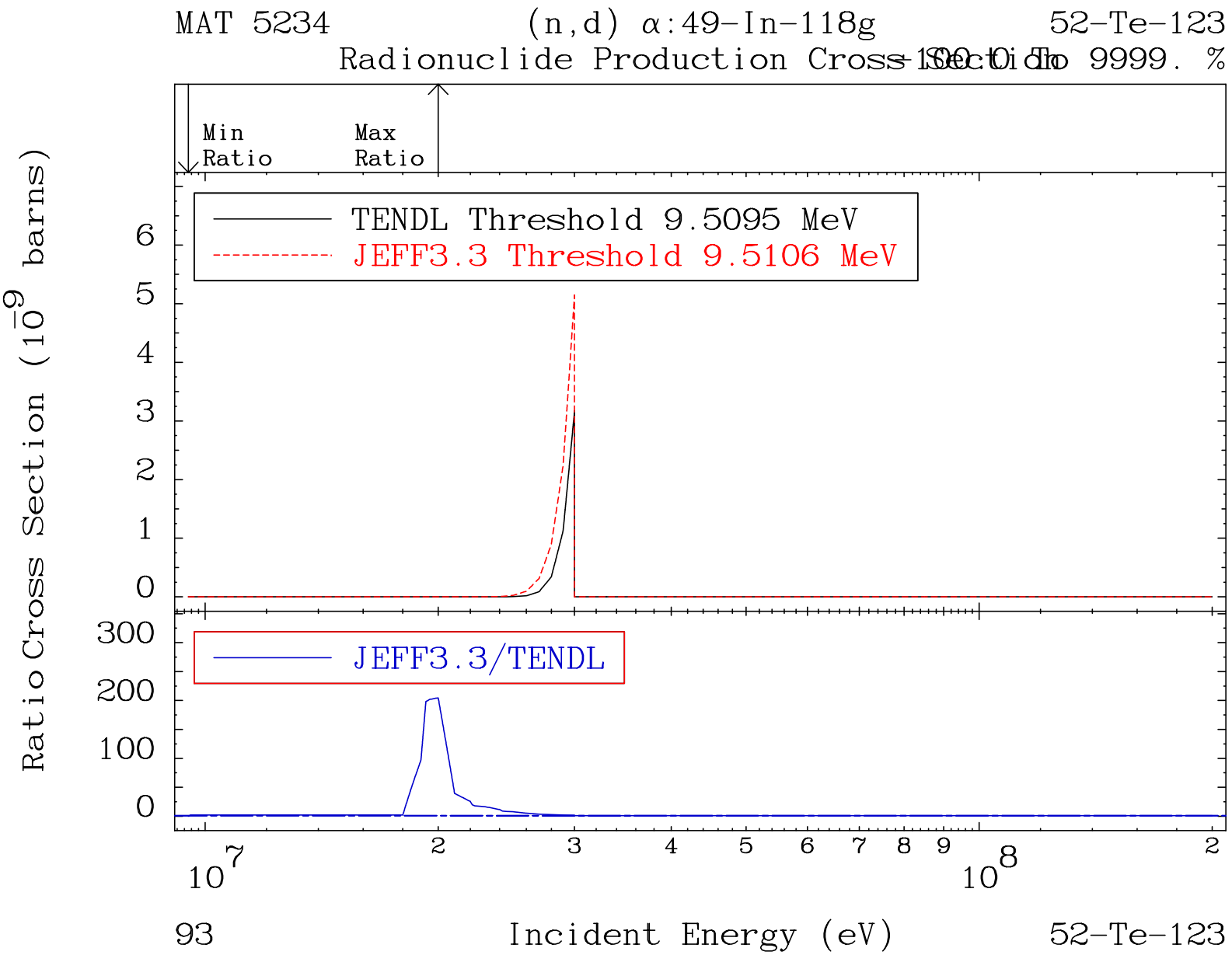

MAT 5234
(n,He-3):50-Sn-121m1
52-Te-123
Radionuclide Production Cross Section To 8.744 %
Min Ratio
Max Ratio
TENDL Threshold 6.8967 MeV
JEFF3.3 Threshold 6.8967 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
1.2
0.6
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
88
Incident Energy (eV)
52-Te-123

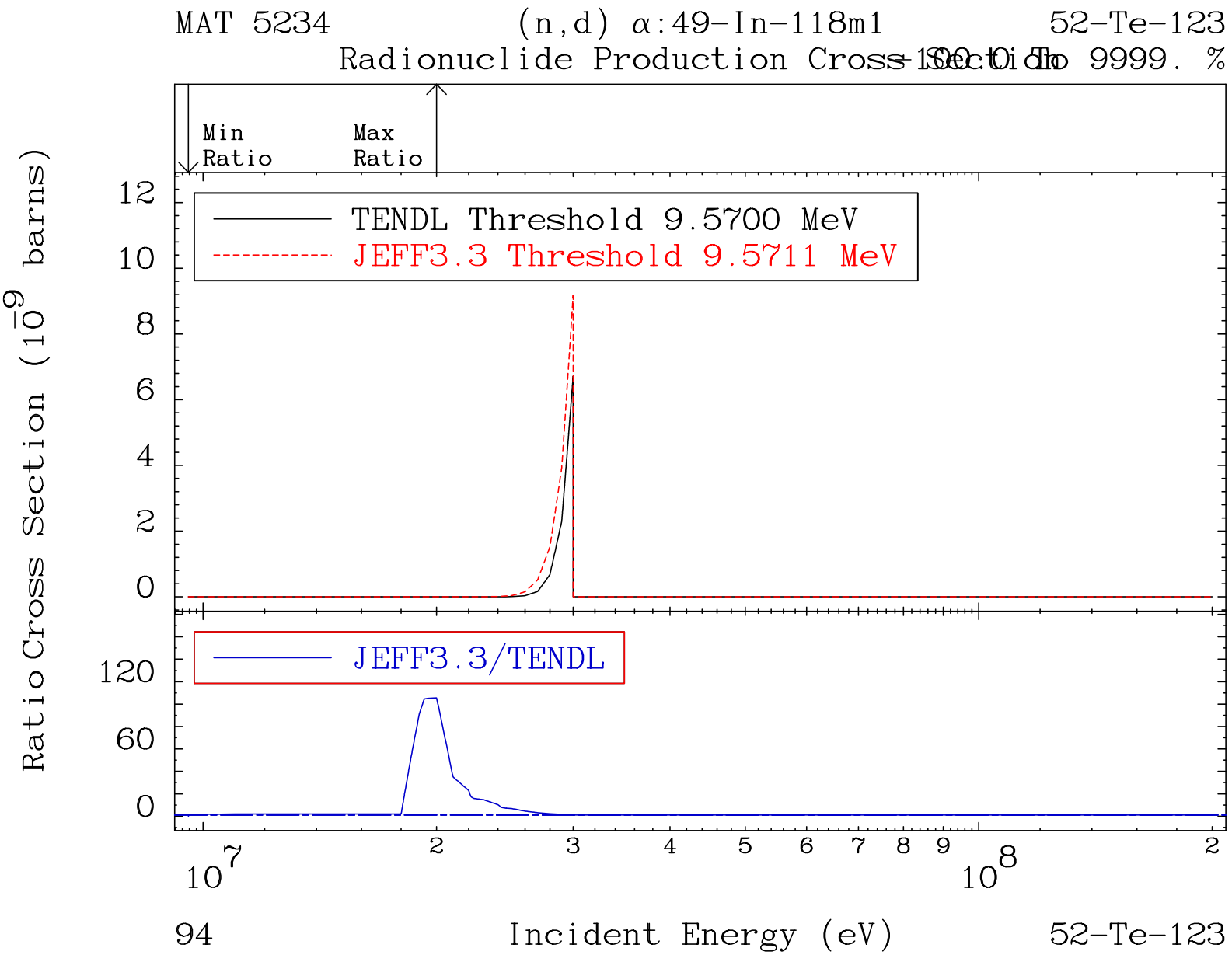

MAT 5234
(n,p) α:49-In-119g
52-Te-123
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.1404 MeV
JEFF3.3 Threshold 3.1408 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
2.5
2.0
1.5
1.0
0.5
0.0
200
100
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
89
Incident Energy (eV)
52-Te-123

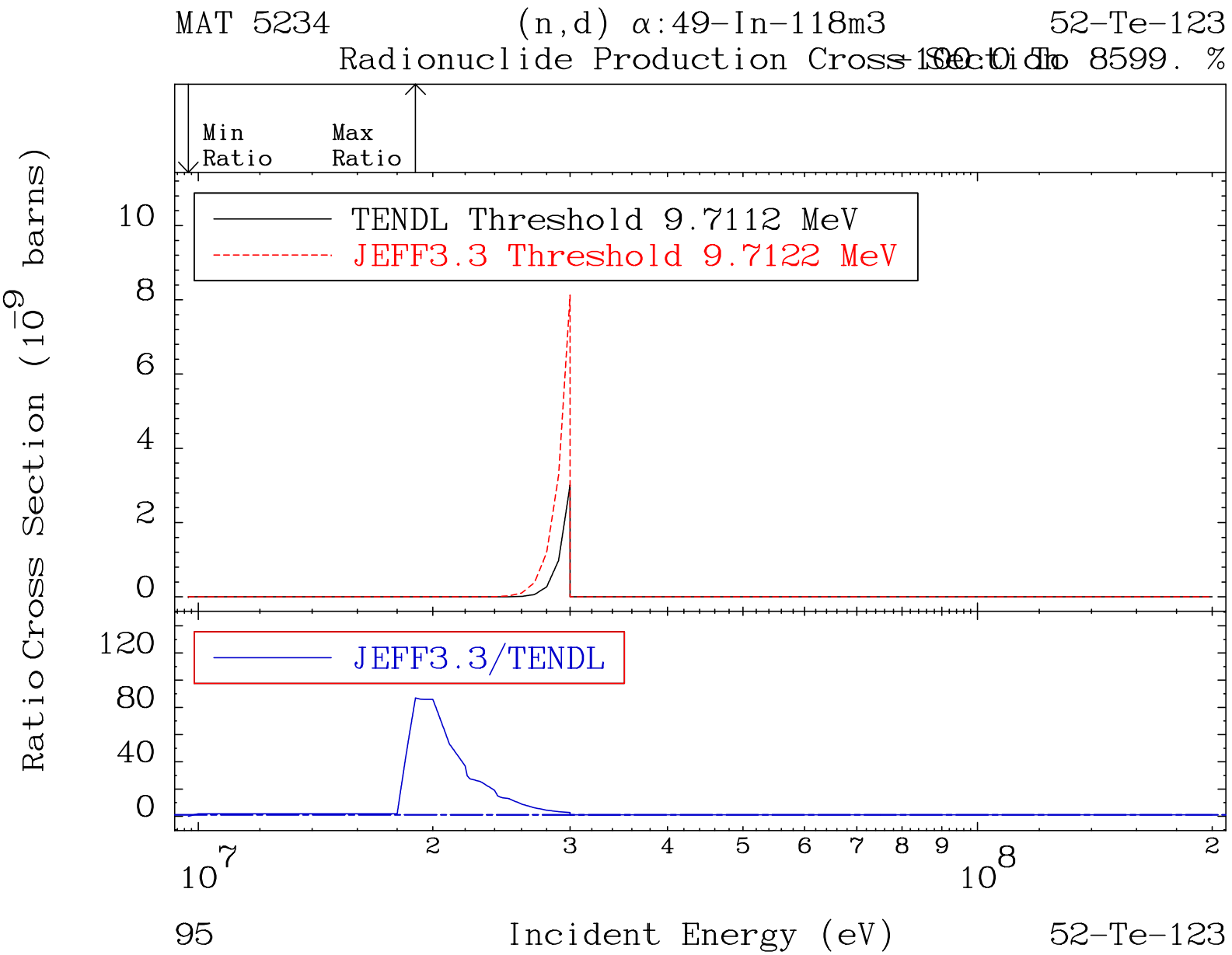

MAT 5234
(n,p) α:49-In-119m1
52-Te-123
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 10.000 MeV
JEFF3.3 Threshold 9.5000 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
800
600
400
200
0
10^2
10^0
10^7
2
3
4
5
6
7
8
9
10^8
2
90
Incident Energy (eV)
52-Te-123


MAT 5234
(n,p) d:50-Sn-121g
52-Te-123
Radionuclide Production Cross Section To 90.22 %
Min Ratio
Max Ratio
TENDL Threshold 12.429 MeV
JEFF3.3 Threshold 12.429 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
400
300
200
100
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
91
Incident Energy (eV)
52-Te-123


MAT 5234
(n,p) d:50-Sn-121m1
52-Te-123
Radionuclide Production Cross Section To 69.47 %
Min Ratio
Max Ratio
TENDL Threshold 12.435 MeV
JEFF3.3 Threshold 12.435 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
92
Incident Energy (eV)
52-Te-123


MAT 5234
(n,d) α:49-In-118g
52-Te-123
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 9.5095 MeV
JEFF3.3 Threshold 9.5106 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
0
1
2
3
4
5
6
0
100
200
300
10^7
2
3
4
5
6
7
8
9
10^8
2
93
Incident Energy (eV)
52-Te-123


MAT 5234
(n,d) α:49-In-118m1
52-Te-123
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 9.5700 MeV
JEFF3.3 Threshold 9.5711 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
12
10
8
6
4
2
0
120
60
0
10^7
2
3
4
5
6
7
8
9
10^8
2
94
Incident Energy (eV)
52-Te-123


MAT 5234
(n,d) α:49-In-118m3
52-Te-123
Radionuclide Production Cross Section To 8599. %
Min Ratio
Max Ratio
TENDL Threshold 9.7112 MeV
JEFF3.3 Threshold 9.7122 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
10
8
6
4
2
0
120
80
40
0
10^7
2
3
4
5
6
7
8
9
10^8
2
95
Incident Energy (eV)
52-Te-123