Program Complot
(Version 2018-1)
by
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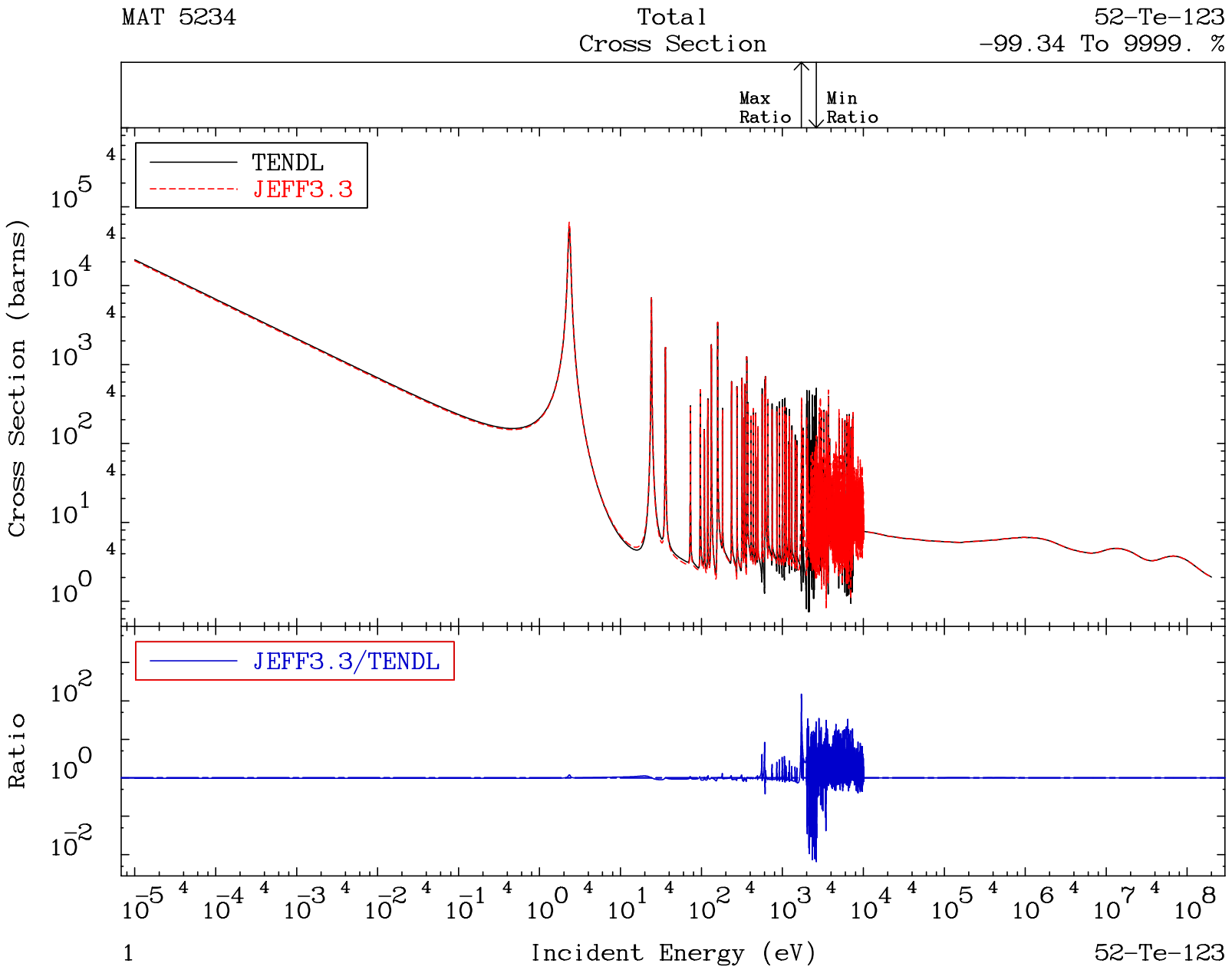
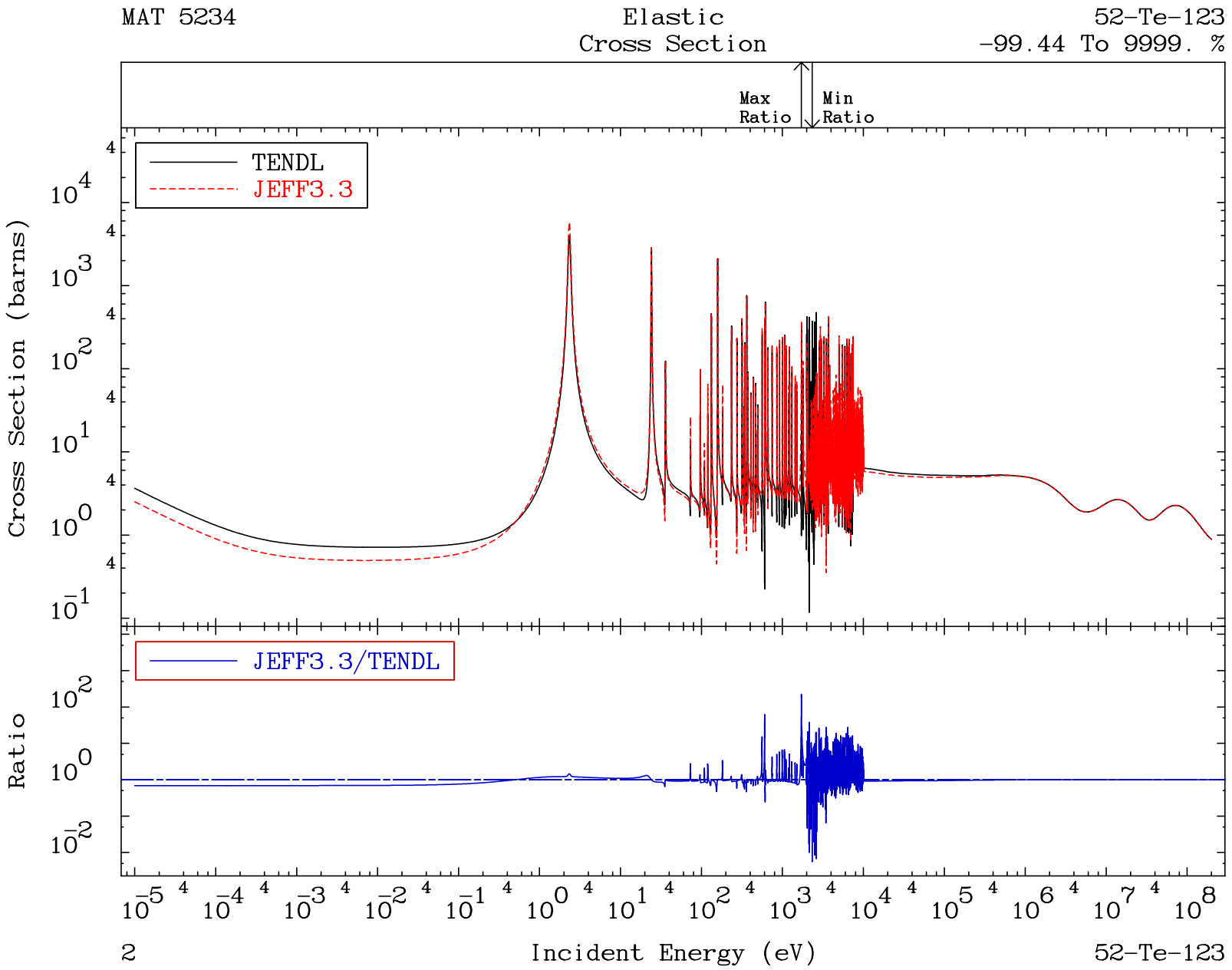
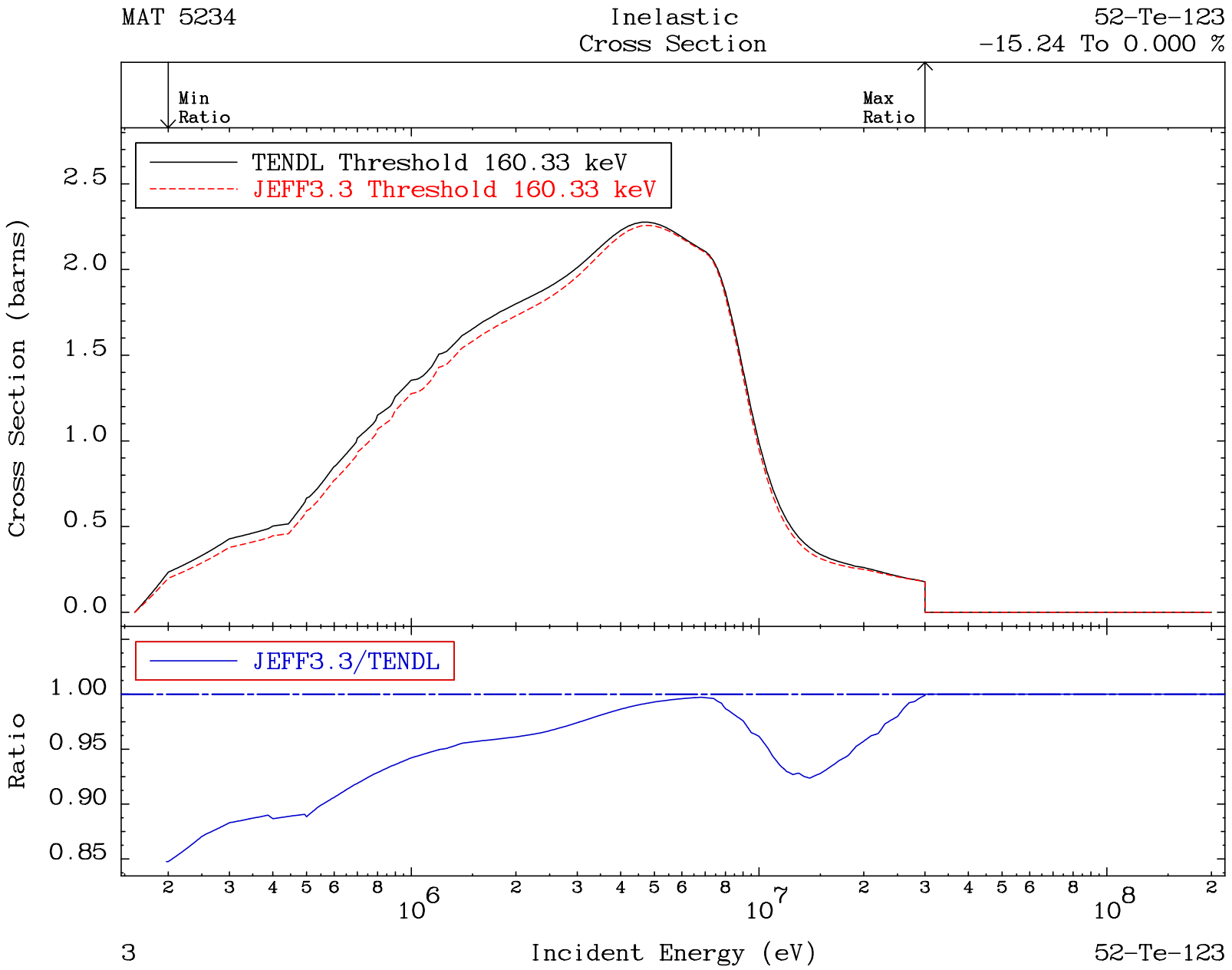
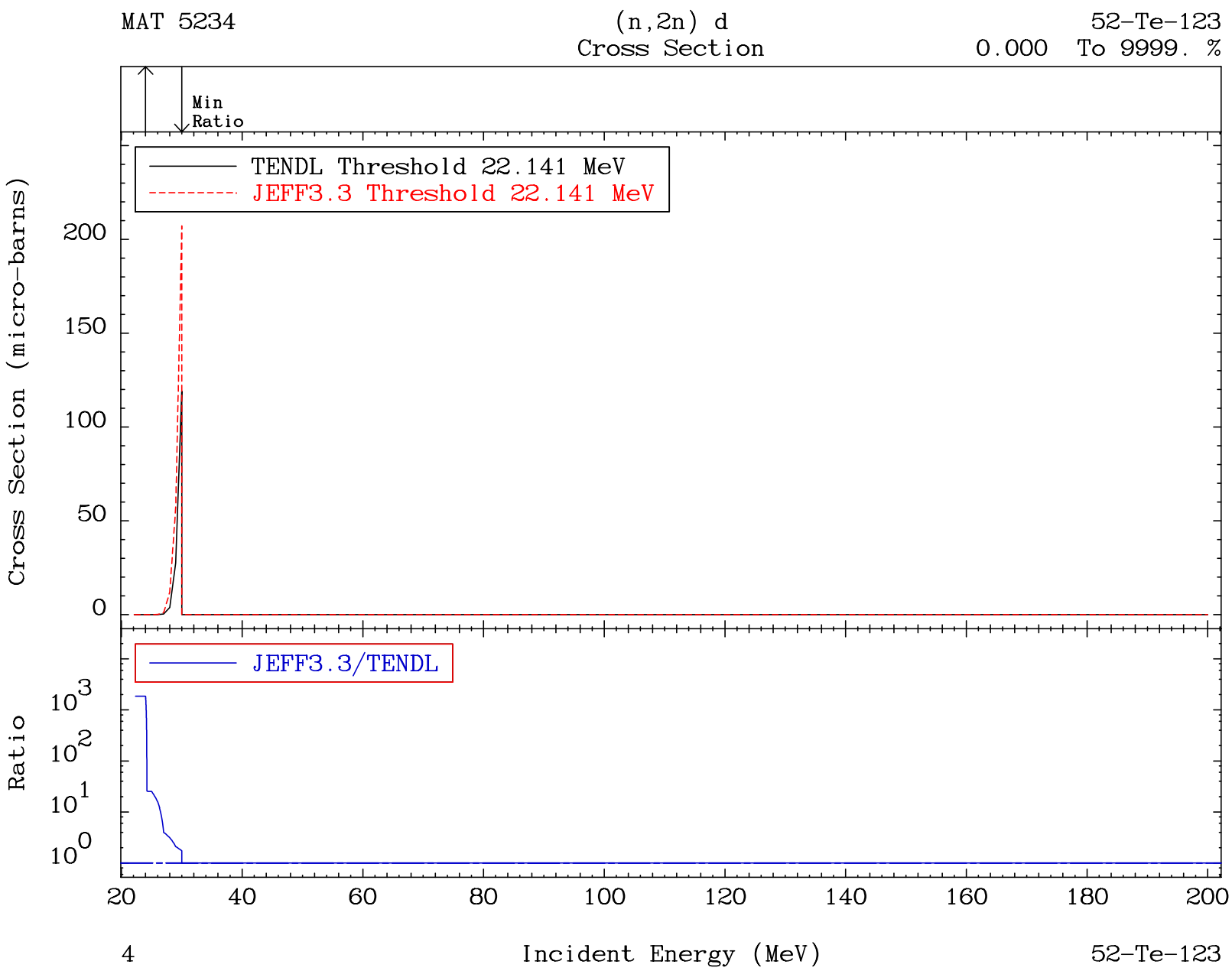
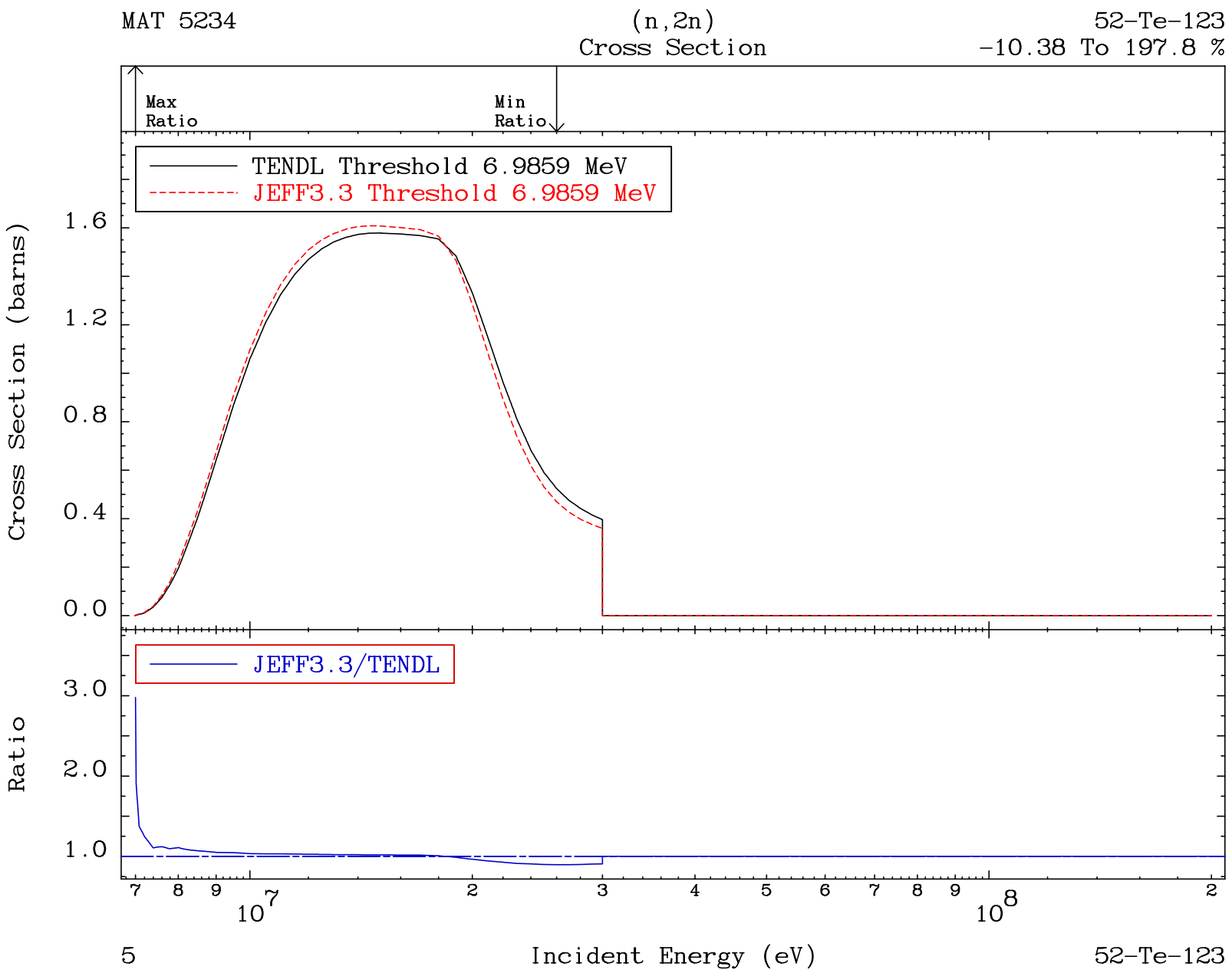
Press Mouse Button to Start

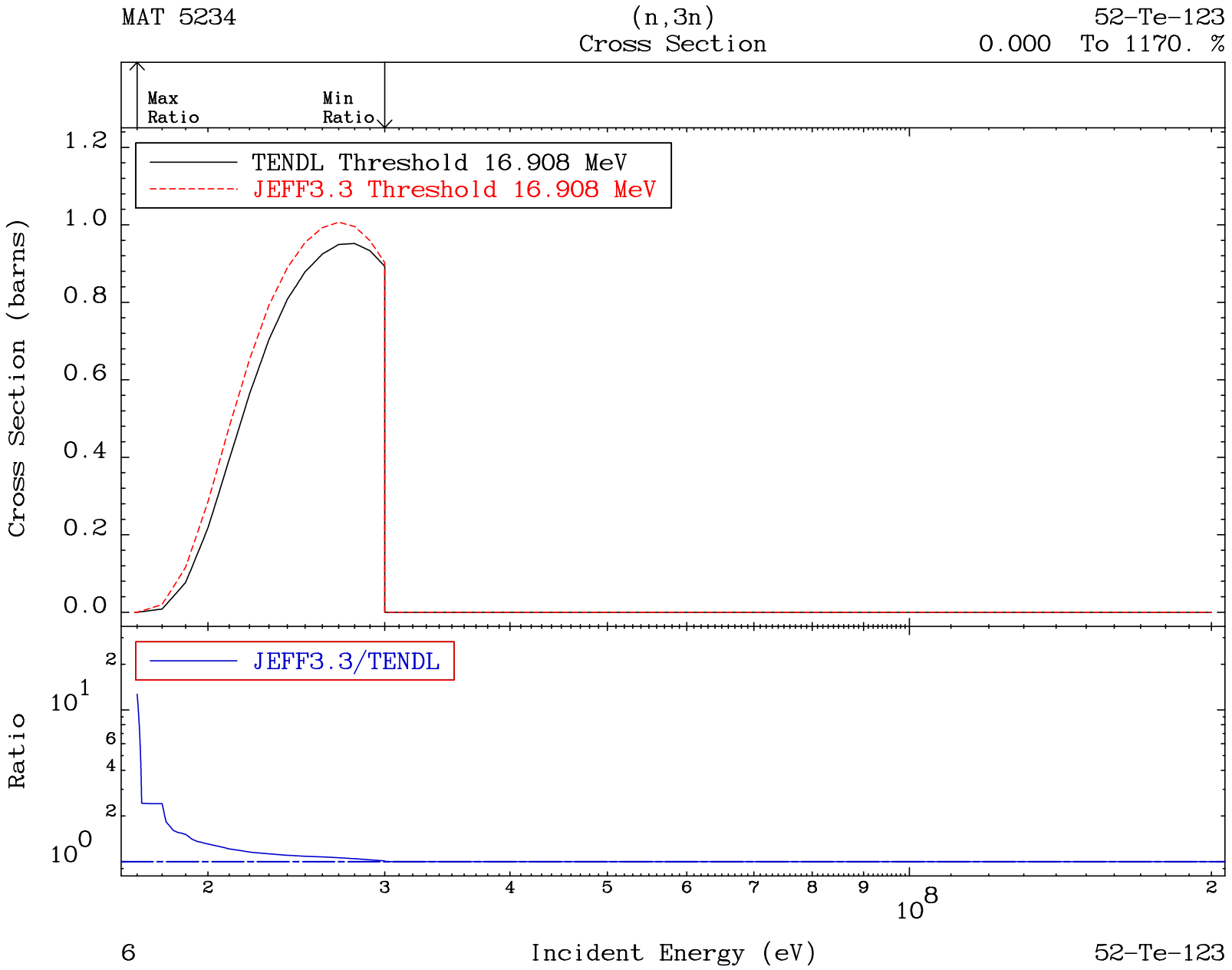

MAT 5234
Total
Cross Section
52-Te-123
-99.34 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
1
52-Te-123

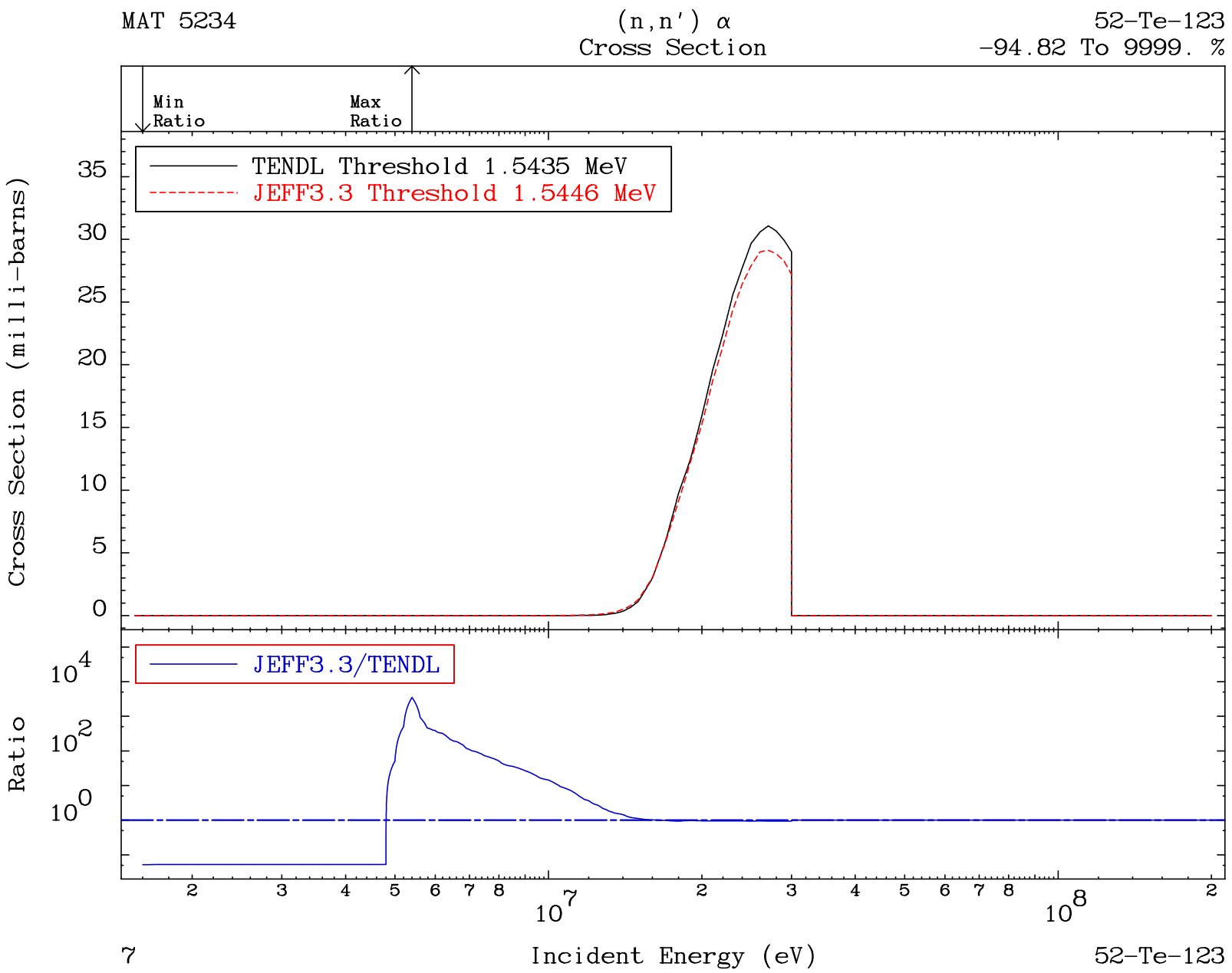

MAT 5234
Elastic
Cross Section
52-Te-123
-99.44 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
2
52-Te-123

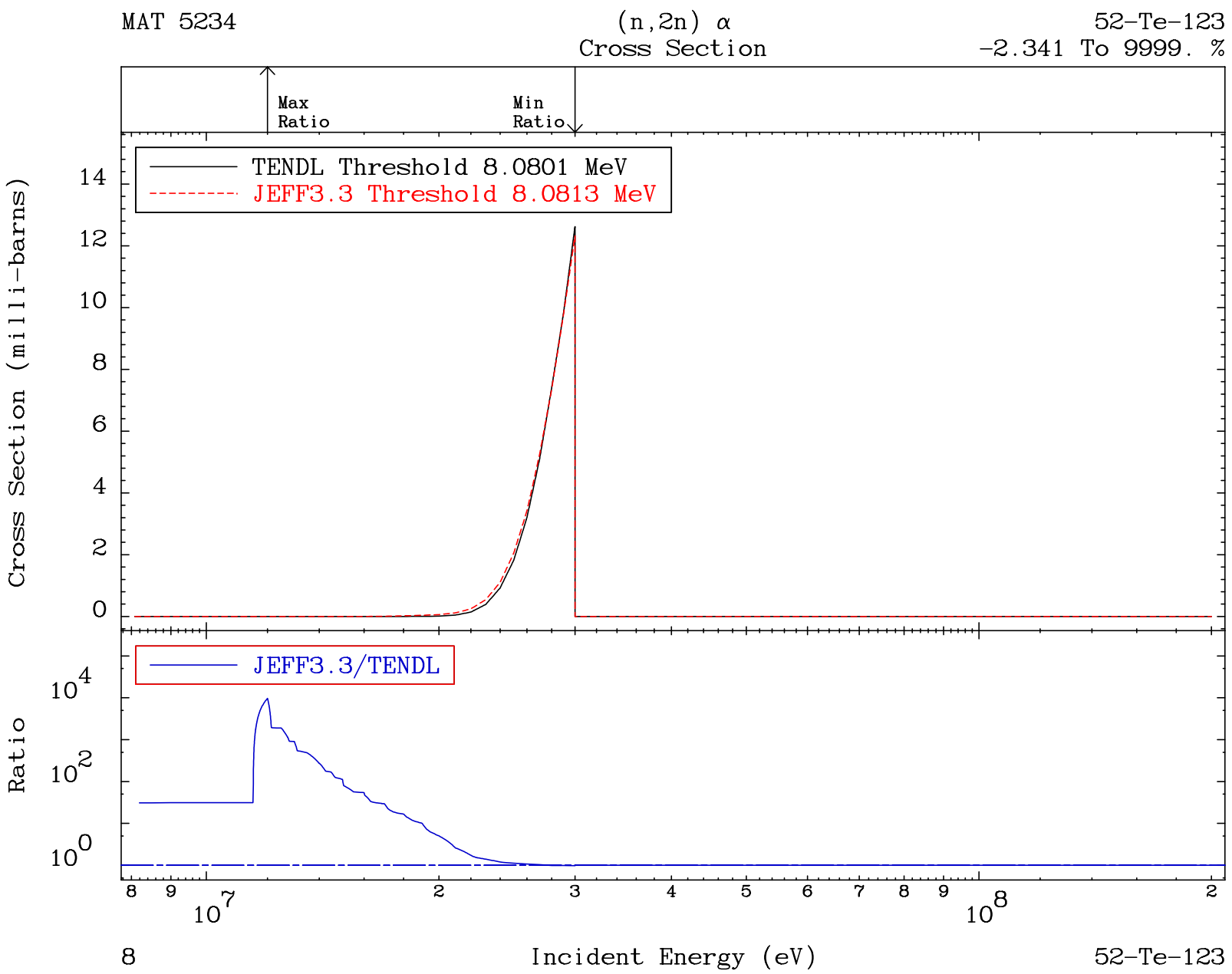

MAT 5234
Inelastic
Cross Section
52-Te-123
-15.24 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 160.33 keV
JEFF3.3 Threshold 160.33 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.00
0.95
0.90
0.85
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
52-Te-123

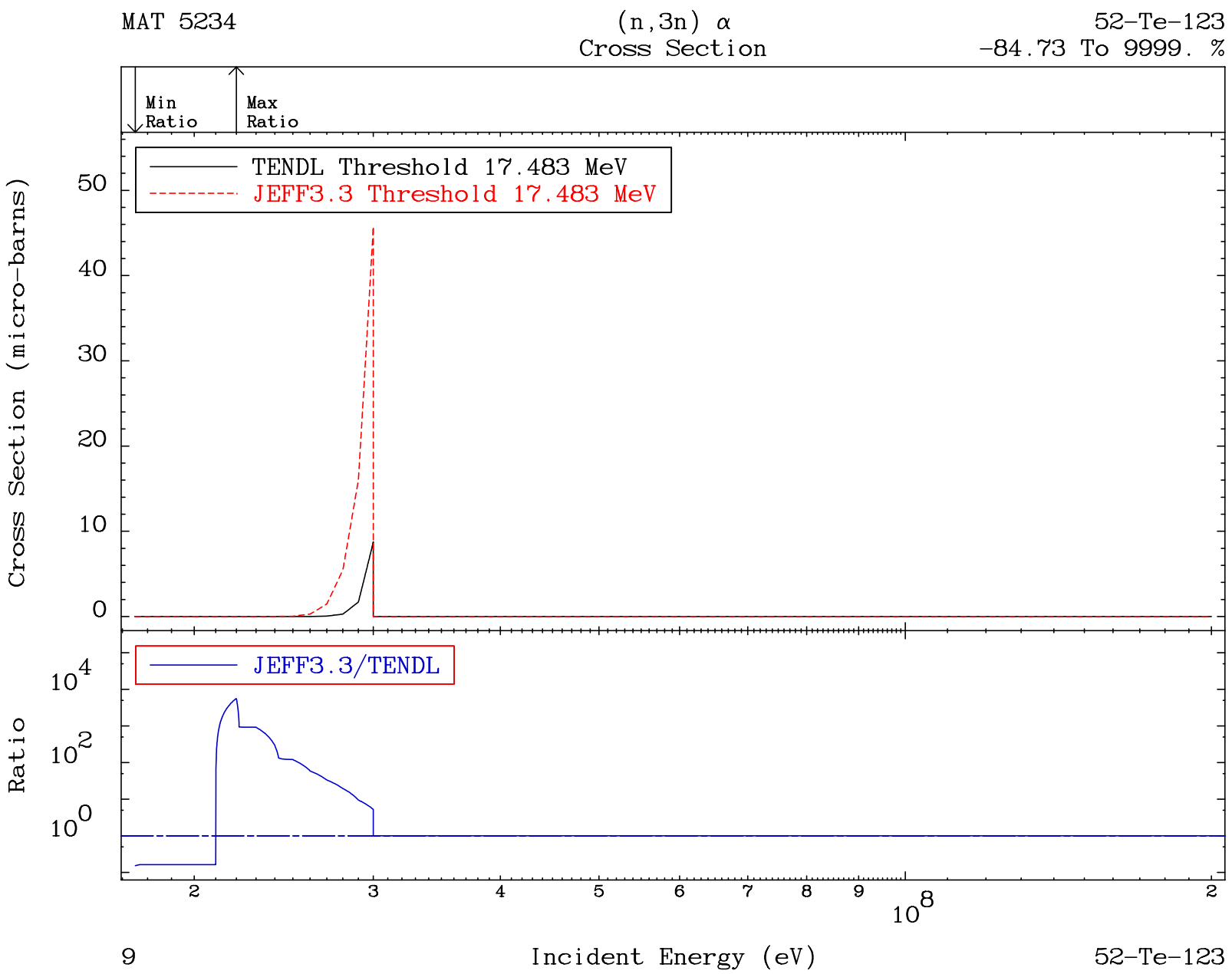

MAT 5234
(n,2n) d
Cross Section
52-Te-123
0.000 To 9999. %
Min
Ratio
TENDL Threshold 22.141 MeV
JEFF3.3 Threshold 22.141 MeV
Cross Section (micro-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
20
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
52-Te-123

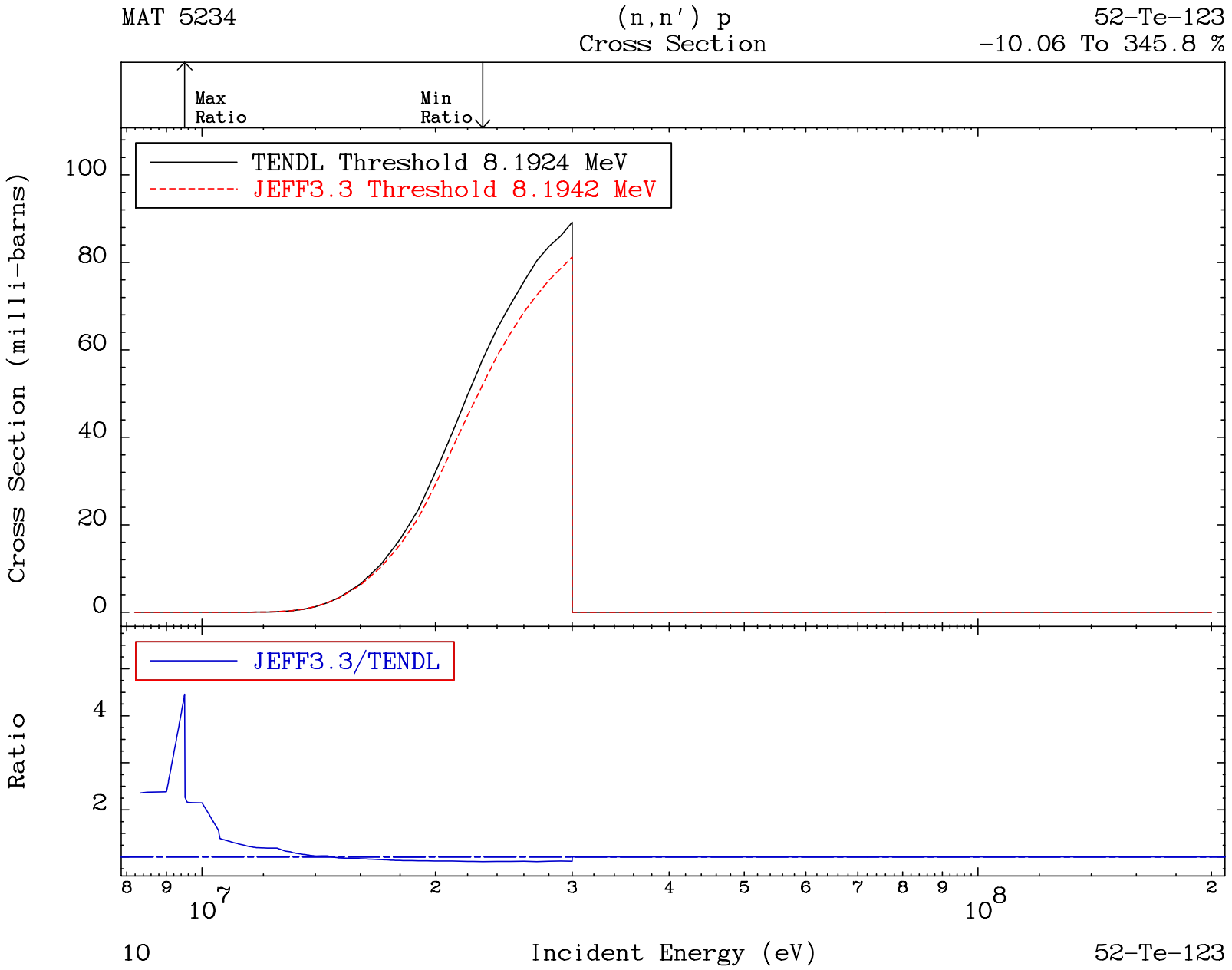

MAT 5234
(n,2n)
Cross Section
52-Te-123
-10.38 To 197.8 %
Max Ratio
Min Ratio
TENDL Threshold 6.9859 MeV
JEFF3.3 Threshold 6.9859 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
5
Incident Energy (eV)
52-Te-123

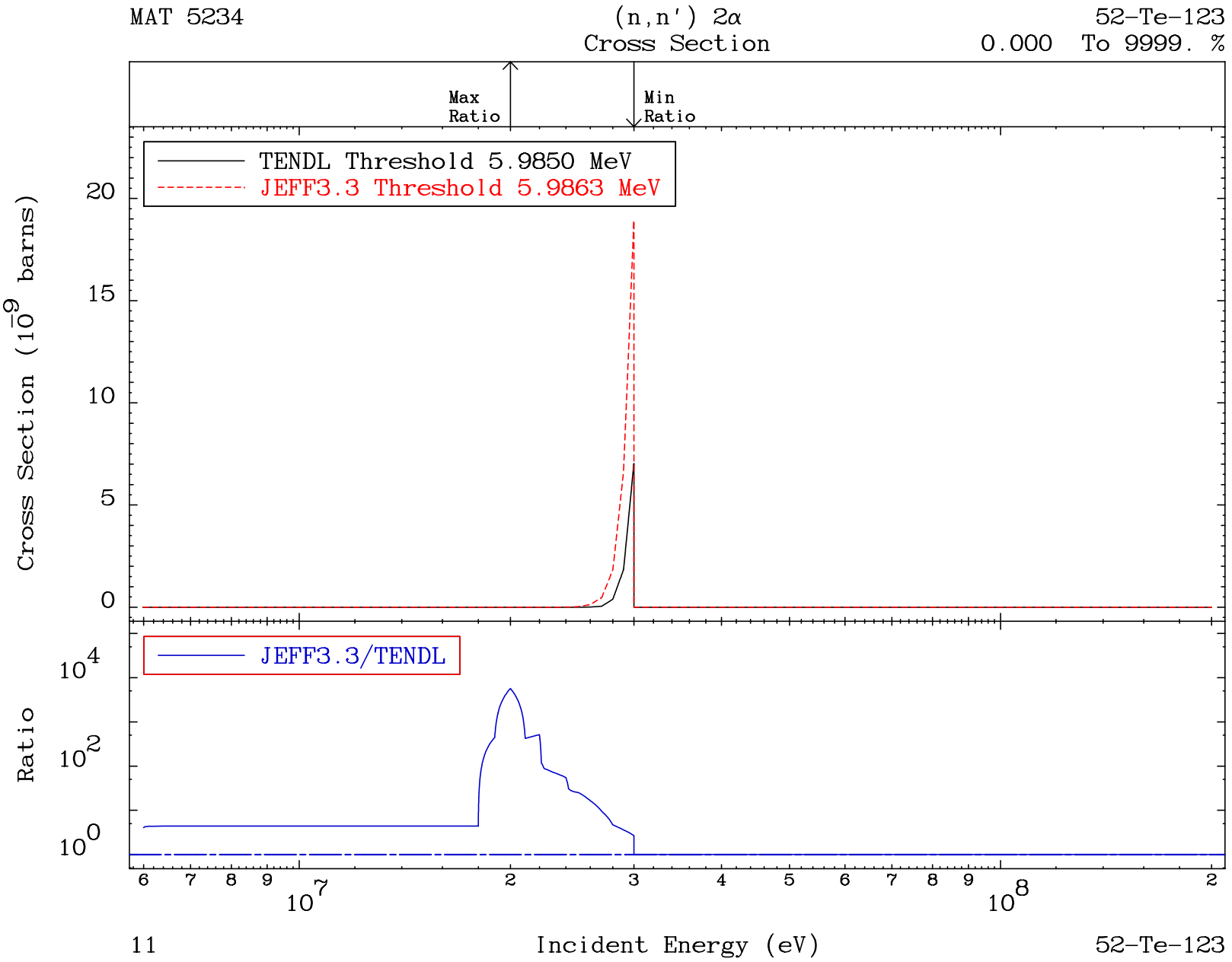

MAT 5234
(n,3n)
Cross Section
52-Te-123
0.000 To 1170. %
Max Ratio
Min Ratio
TENDL Threshold 16.908 MeV
JEFF3.3 Threshold 16.908 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
10^1
10^0
2
6
4
2
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
52-Te-123

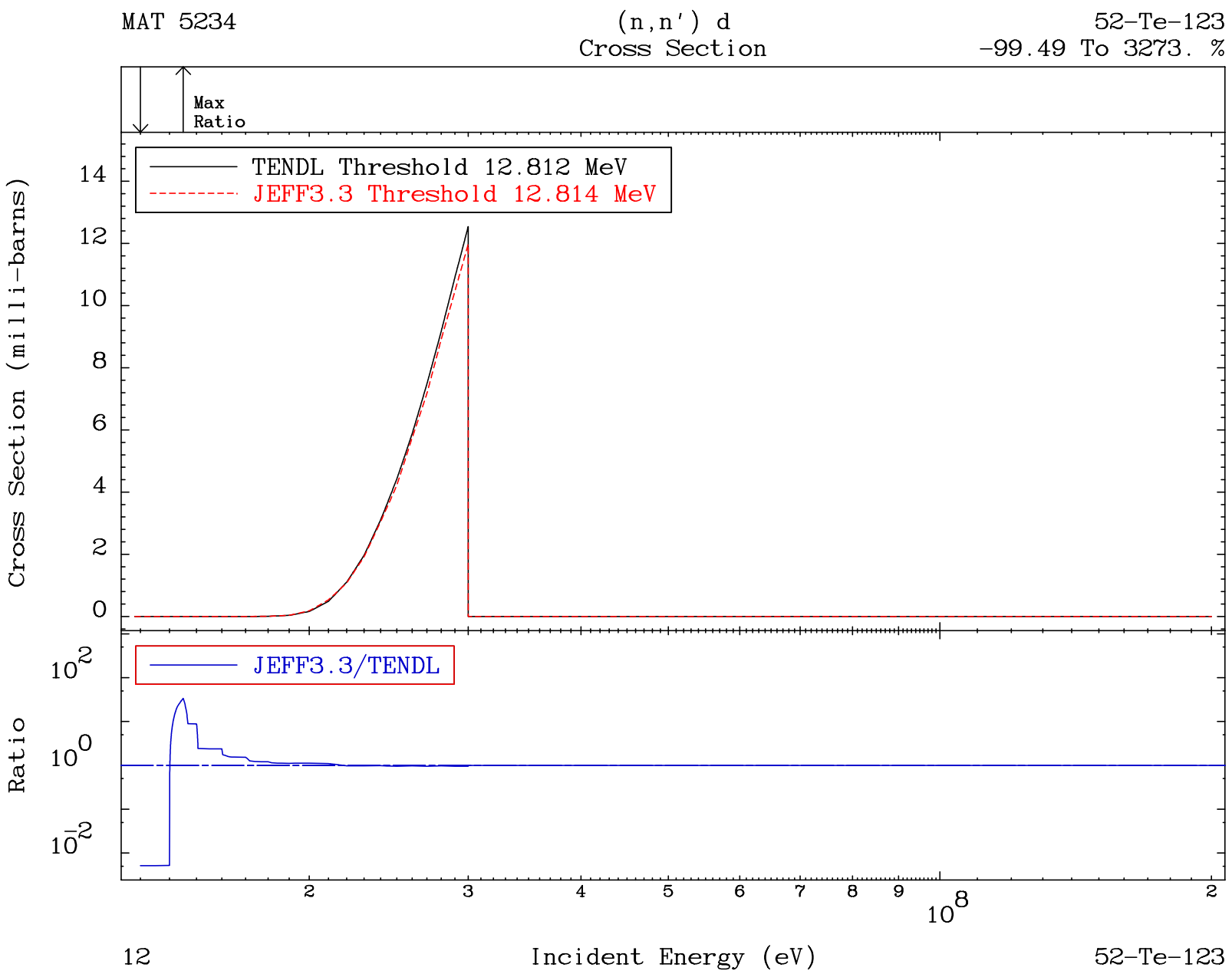

MAT 5234
(n,n') α
Cross Section
52-Te-123
-94.82 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.5435 MeV
JEFF3.3 Threshold 1.5446 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
7
Incident Energy (eV)
52-Te-123

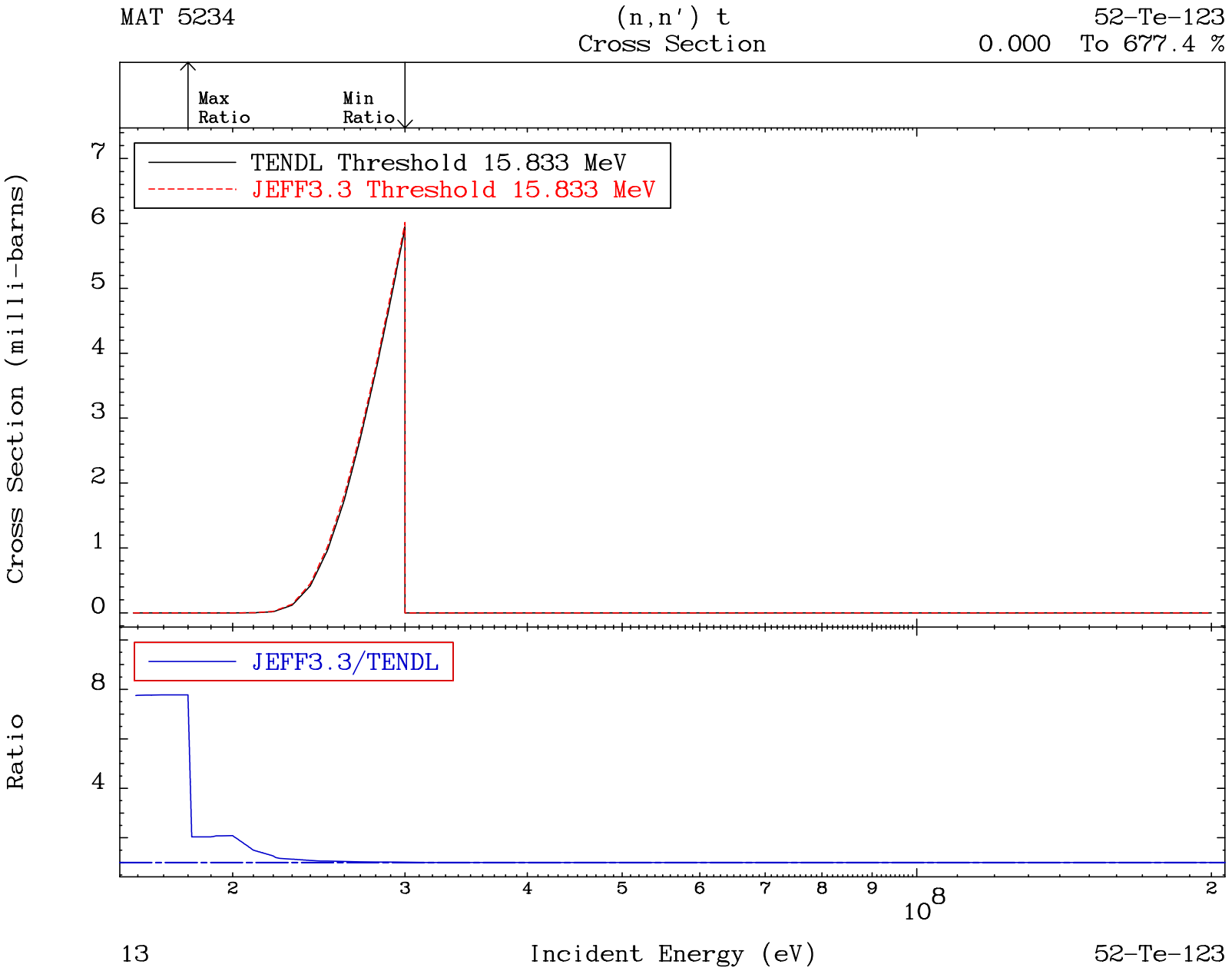

MAT 5234
(n,2n) α
Cross Section
52-Te-123
-2.341 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 8.0801 MeV
JEFF3.3 Threshold 8.0813 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
8
52-Te-123

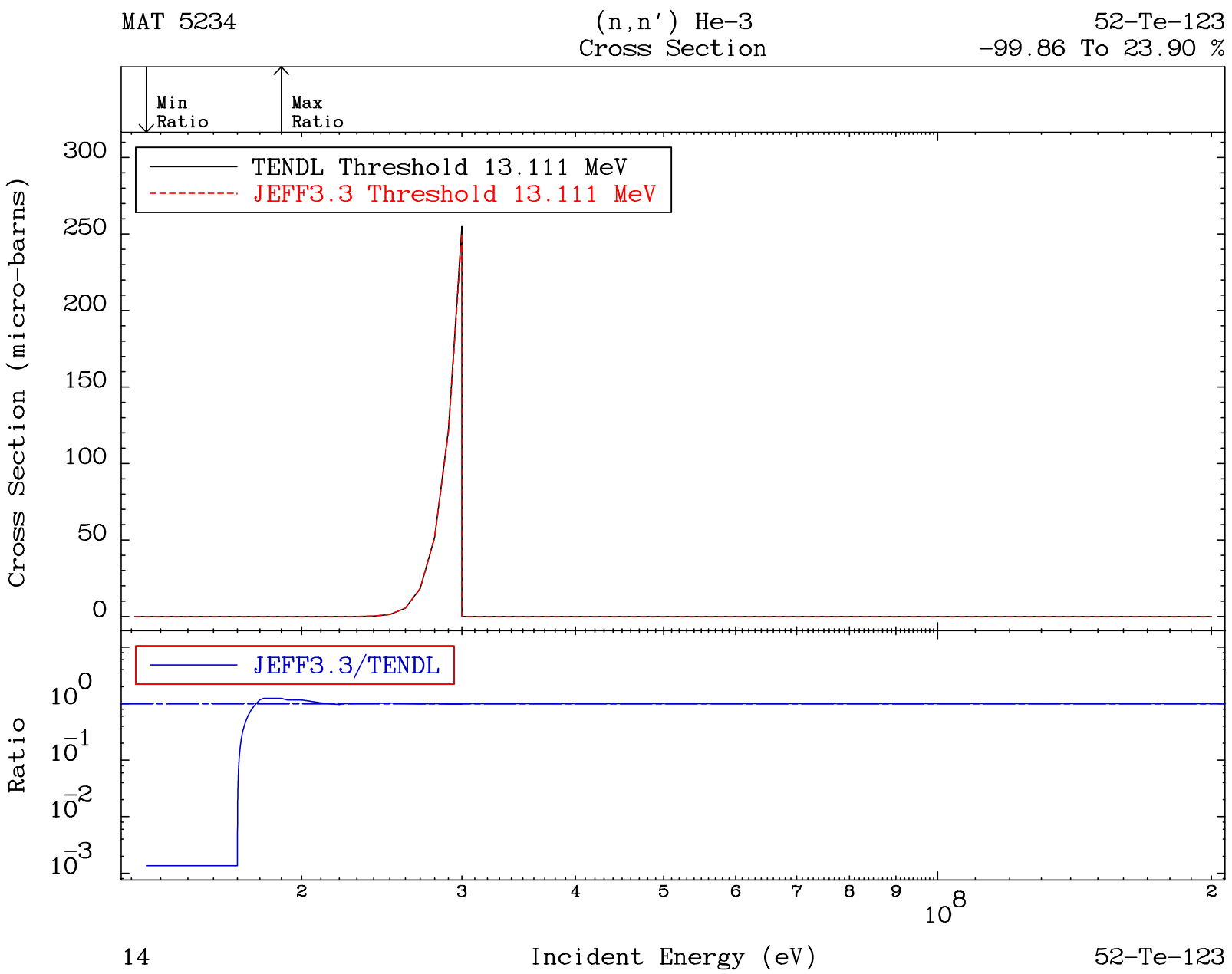

MAT 5234
(n,3n) α
Cross Section
52-Te-123
-84.73 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 17.483 MeV
JEFF3.3 Threshold 17.483 MeV
Cross Section (micro-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
52-Te-123

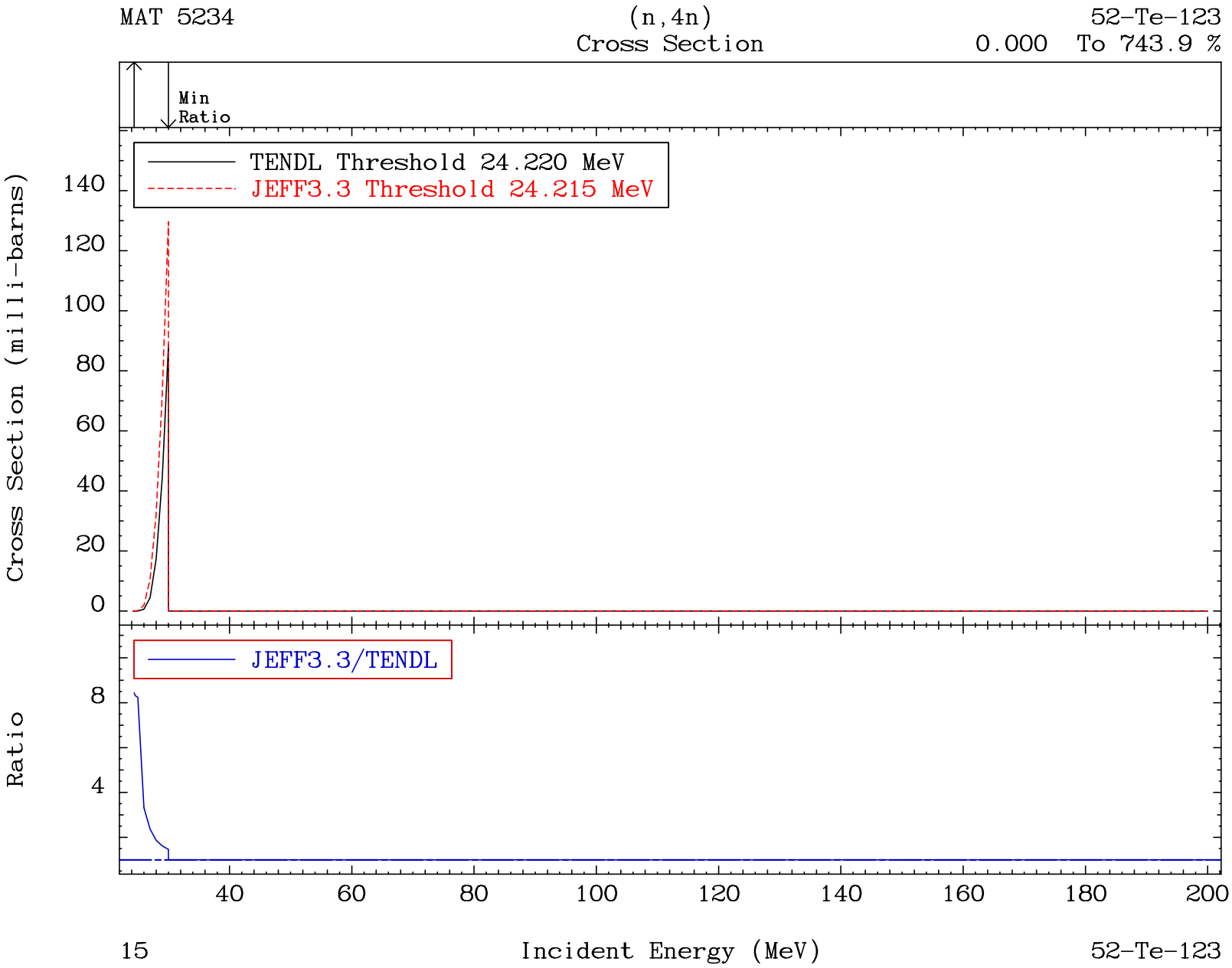

MAT 5234
(n,n') p
Cross Section
52-Te-123
-10.06 To 345.8 %
Max Ratio
Min Ratio
TENDL Threshold 8.1924 MeV
JEFF3.3 Threshold 8.1942 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
4
2
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
52-Te-123

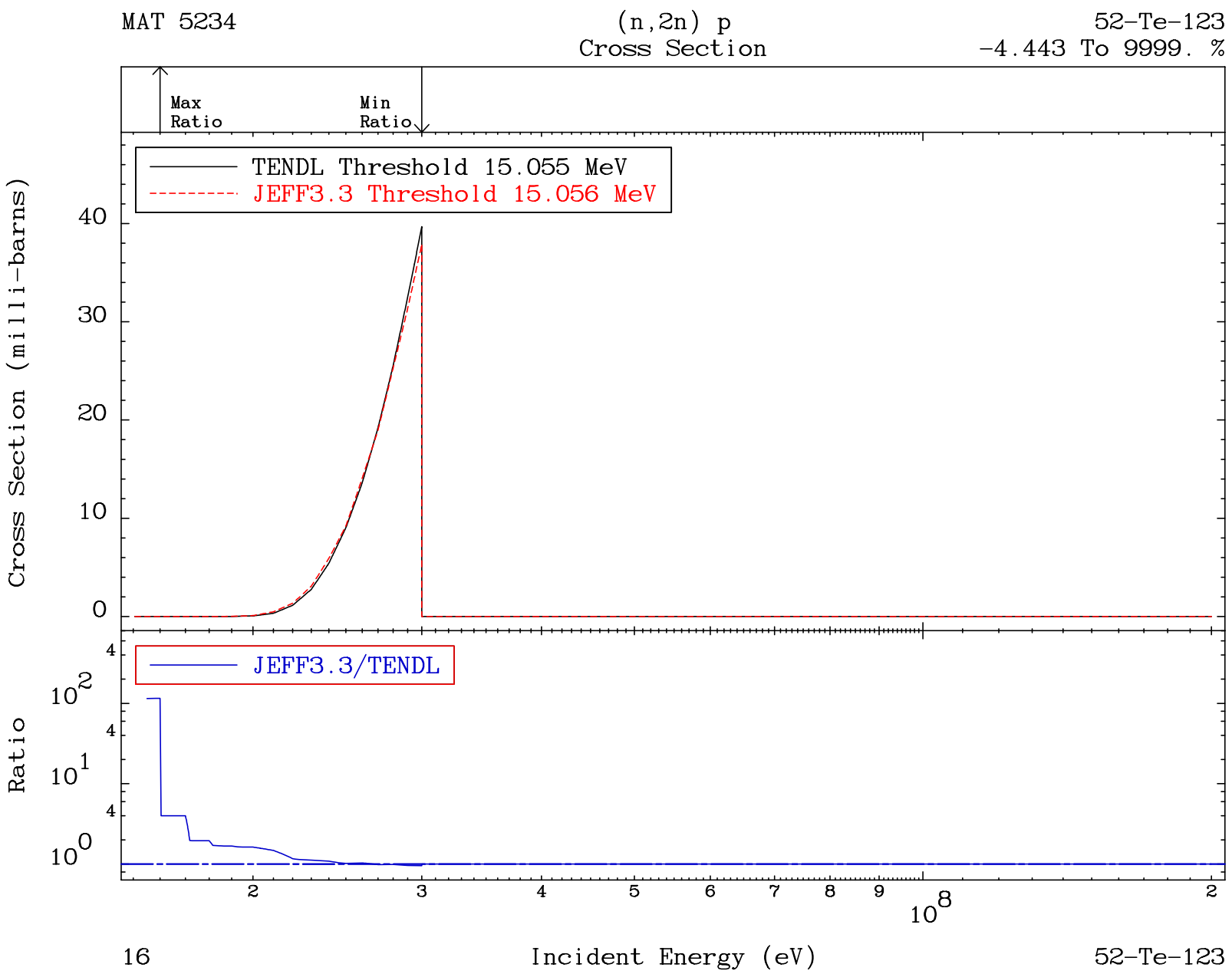

MAT 5234
(n,n') 2α
Cross Section
52-Te-123
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.9850 MeV
JEFF3.3 Threshold 5.9863 MeV
Cross Section (10^{-9} barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
52-Te-123

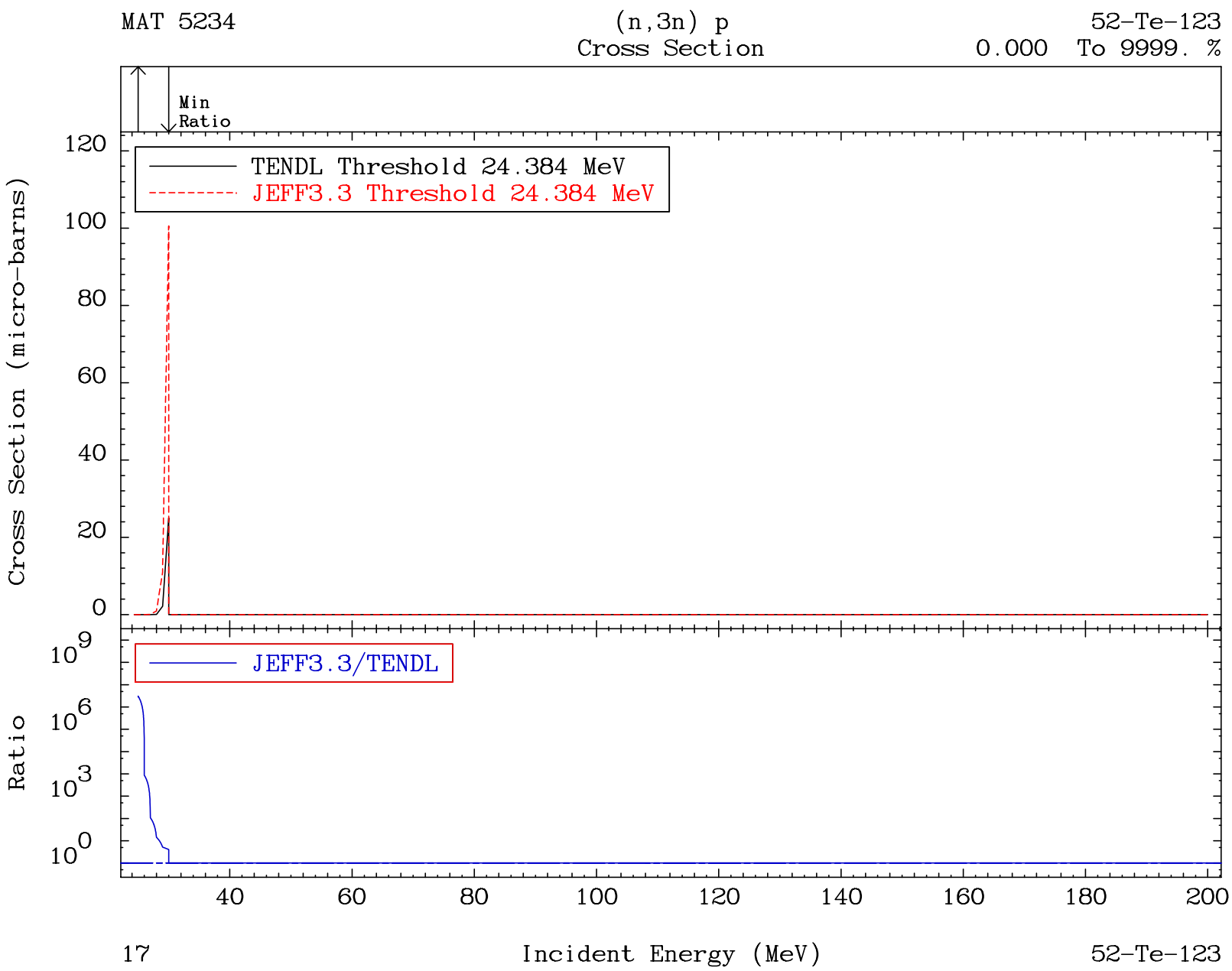

MAT 5234
(n,n') d
Cross Section
52-Te-123
-99.49 To 3273. %
Max
Ratio
TENDL Threshold 12.812 MeV
JEFF3.3 Threshold 12.814 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
52-Te-123

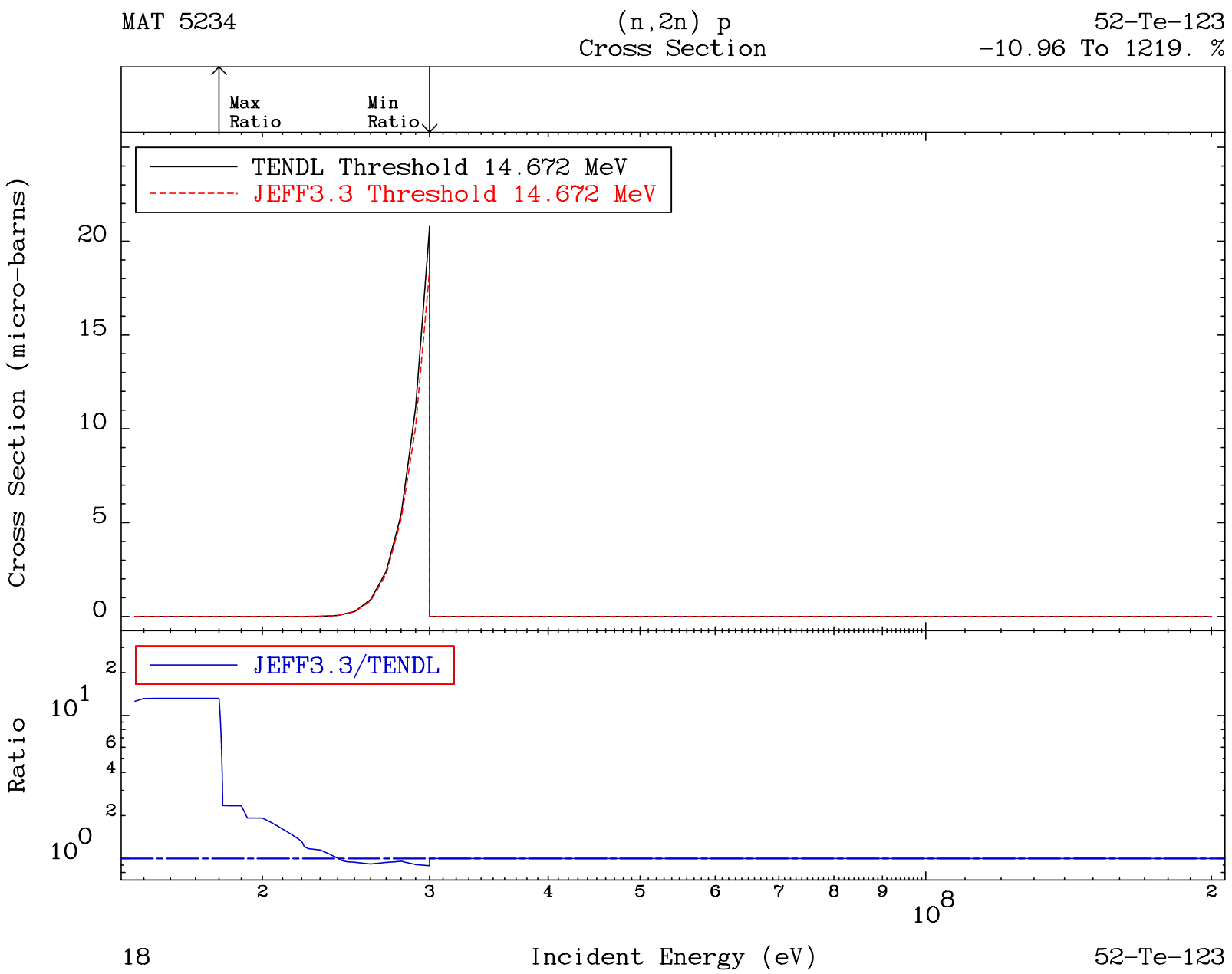

MAT 5234
(n,n') t
Cross Section
52-Te-123
0.000 To 677.4 %
Max Ratio
Min Ratio
TENDL Threshold 15.833 MeV
JEFF3.3 Threshold 15.833 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
13
52-Te-123

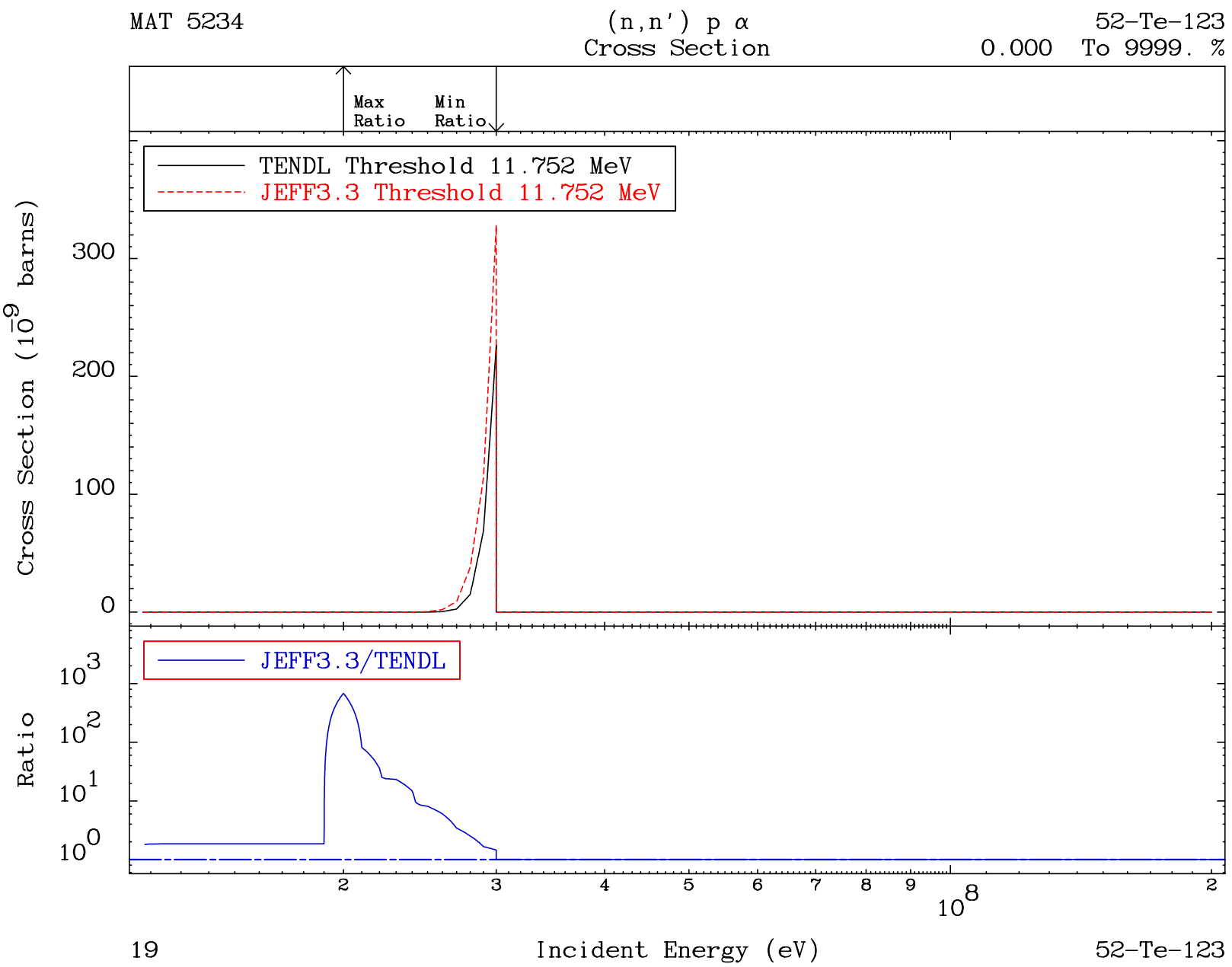

MAT 5234
(n,n') He-3
Cross Section
52-Te-123
-99.86 To 23.90 %
Min Ratio
Max Ratio
TENDL Threshold 13.111 MeV
JEFF3.3 Threshold 13.111 MeV
Cross Section (micro-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
10^0
10^-1
10^-2
10^-3
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
52-Te-123

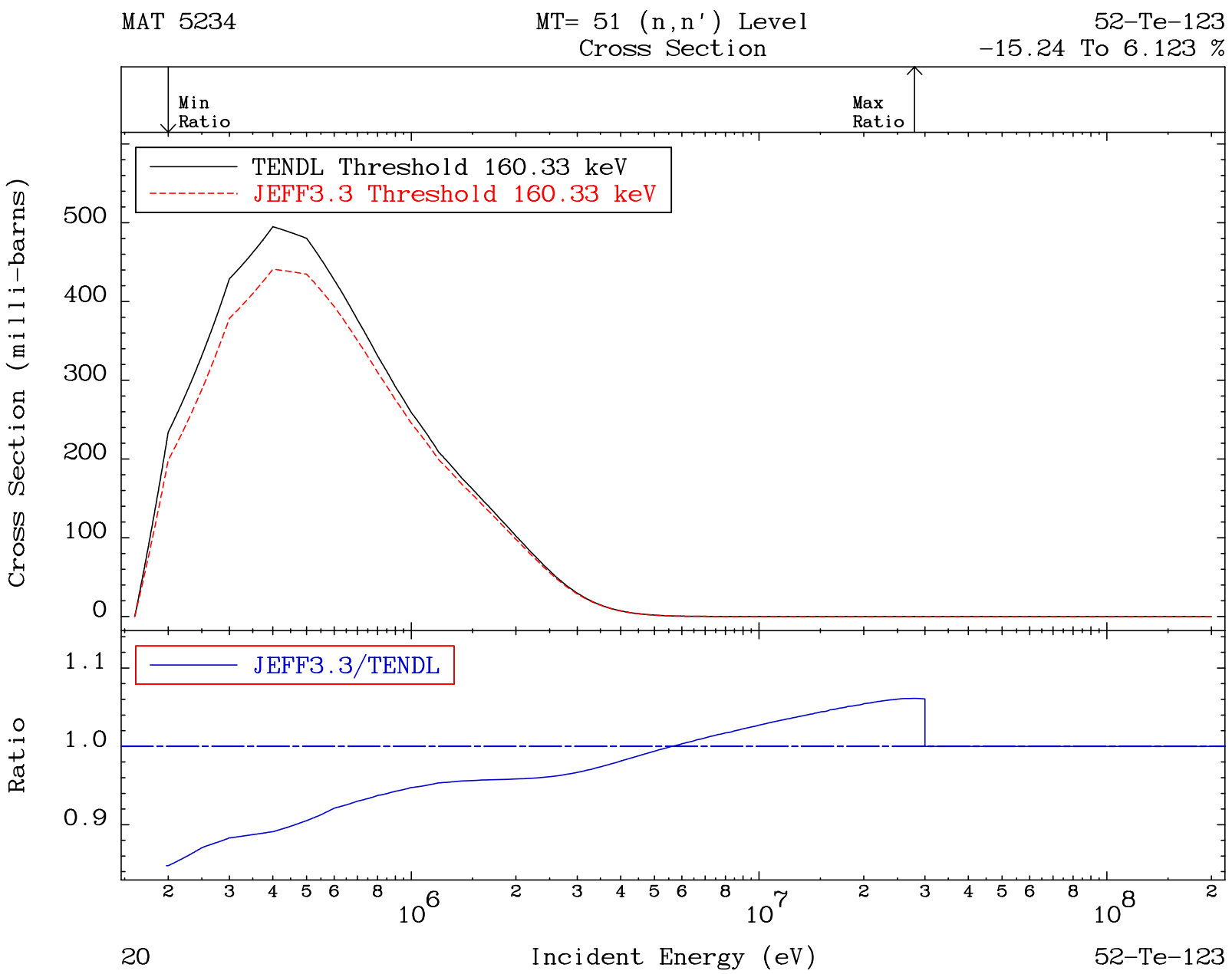

MAT 5234
(n,4n)
Cross Section
52-Te-123
0.000 To 743.9 %
Min
Ratio
TENDL Threshold 24.220 MeV
JEFF3.3 Threshold 24.215 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
8
4
40
60
80
100
120
140
160
180
200
15
Incident Energy (MeV)
52-Te-123

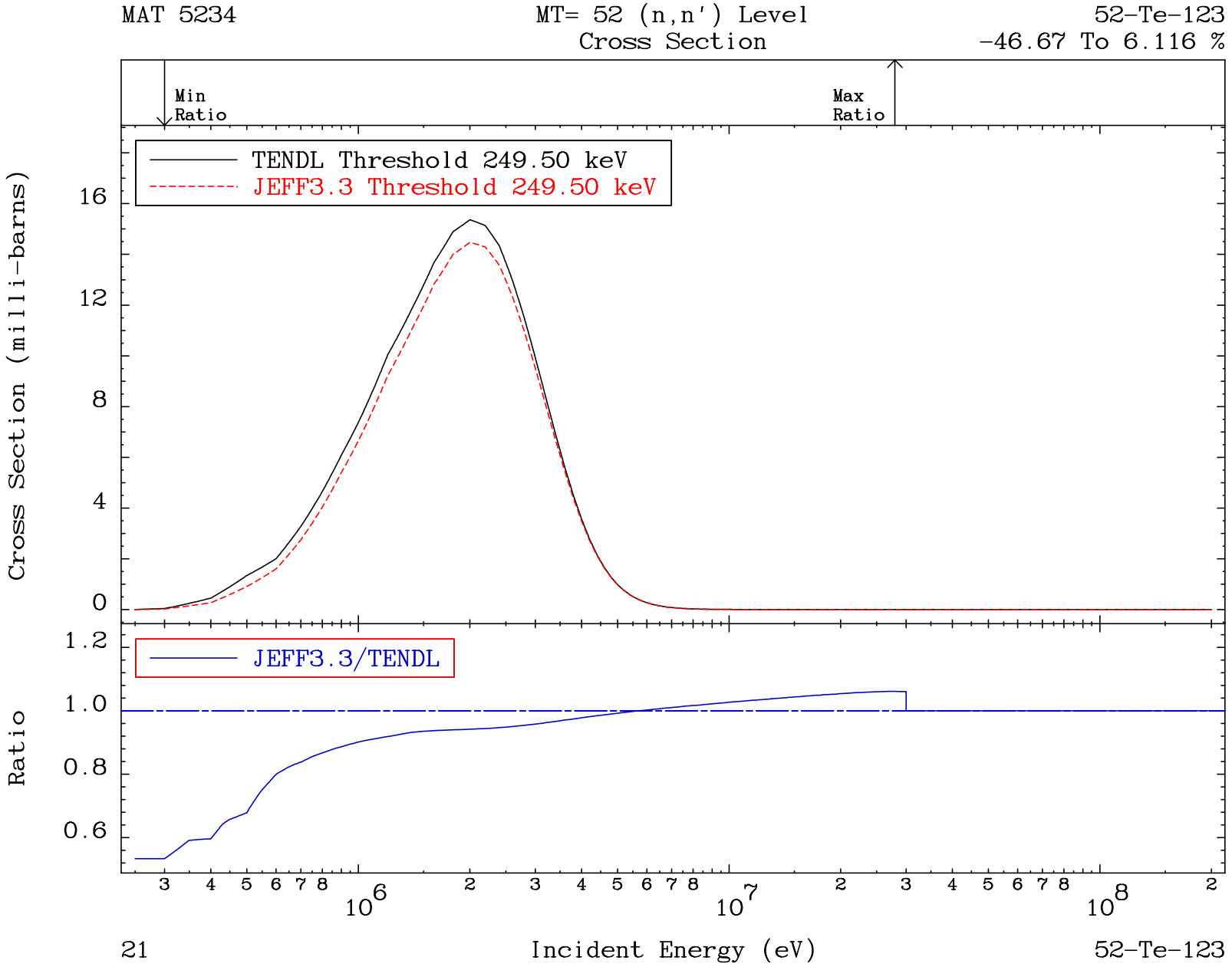

MAT 5234
(n,2n) p
Cross Section
52-Te-123
-4.443 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 15.055 MeV
JEFF3.3 Threshold 15.056 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
16
Incident Energy (eV)
52-Te-123

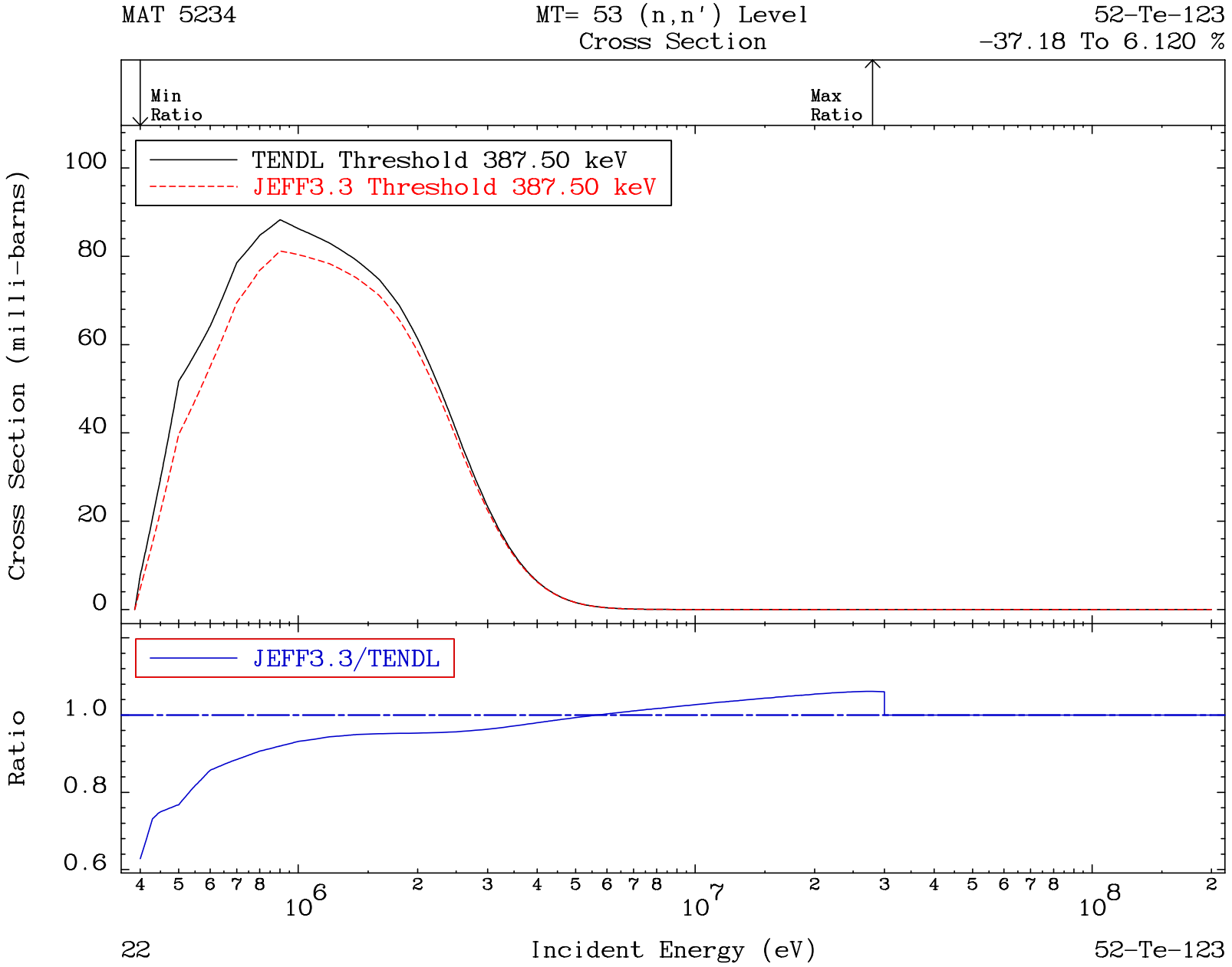

MAT 5234
(n,3n) p
Cross Section
52-Te-123
0.000 To 9999. %
Min
Ratio
TENDL Threshold 24.384 MeV
JEFF3.3 Threshold 24.384 MeV
Cross Section (micro-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^9
10^6
10^3
10^0
40
60
80
100
120
140
160
180
200
17
Incident Energy (MeV)
52-Te-123

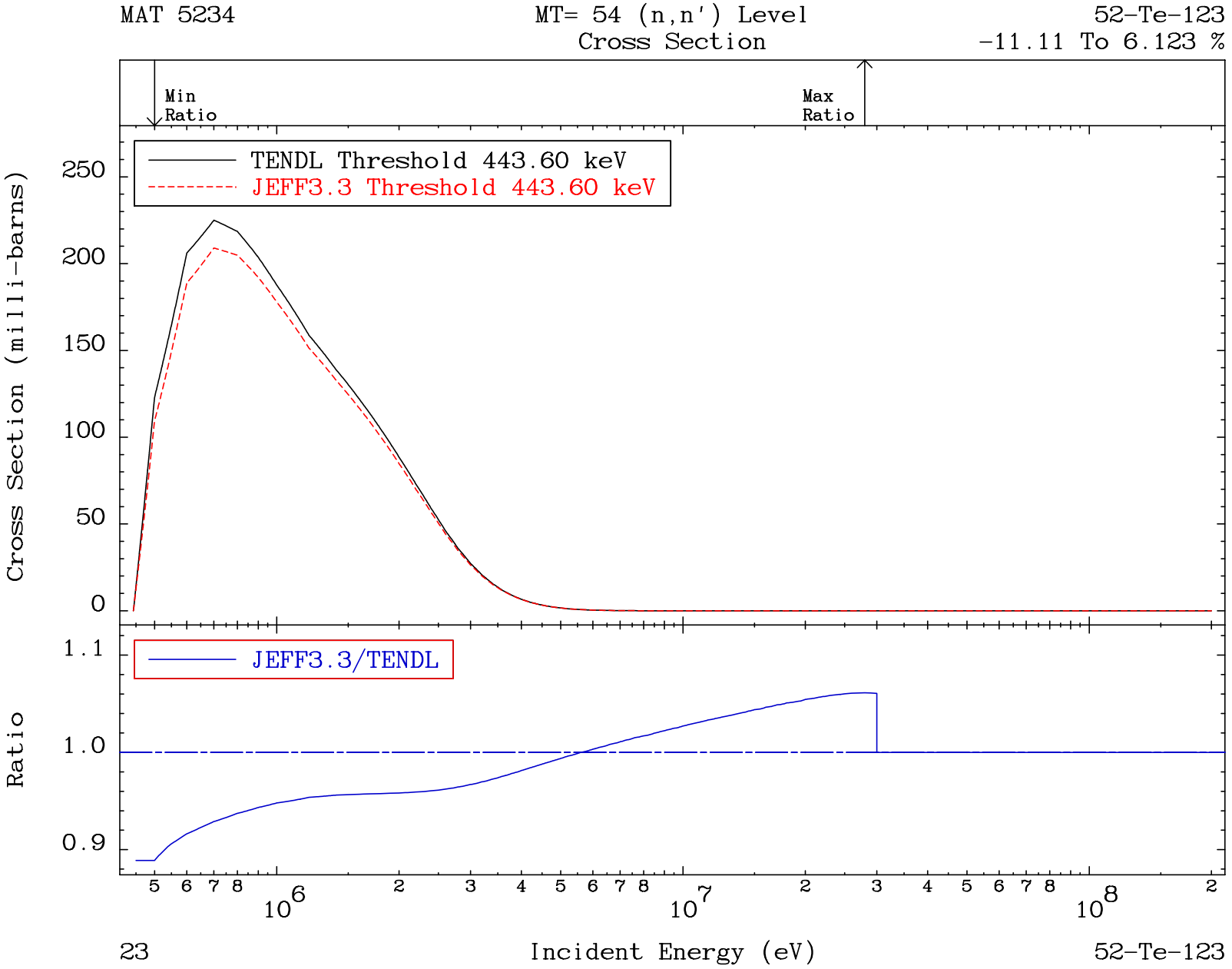

MAT 5234
(n,2n) p
Cross Section
52-Te-123
-10.96 To 1219. %
Max Ratio
Min Ratio
TENDL Threshold 14.672 MeV
JEFF3.3 Threshold 14.672 MeV
Cross Section (micro-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^1
10^0
2
6
4
2
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
52-Te-123

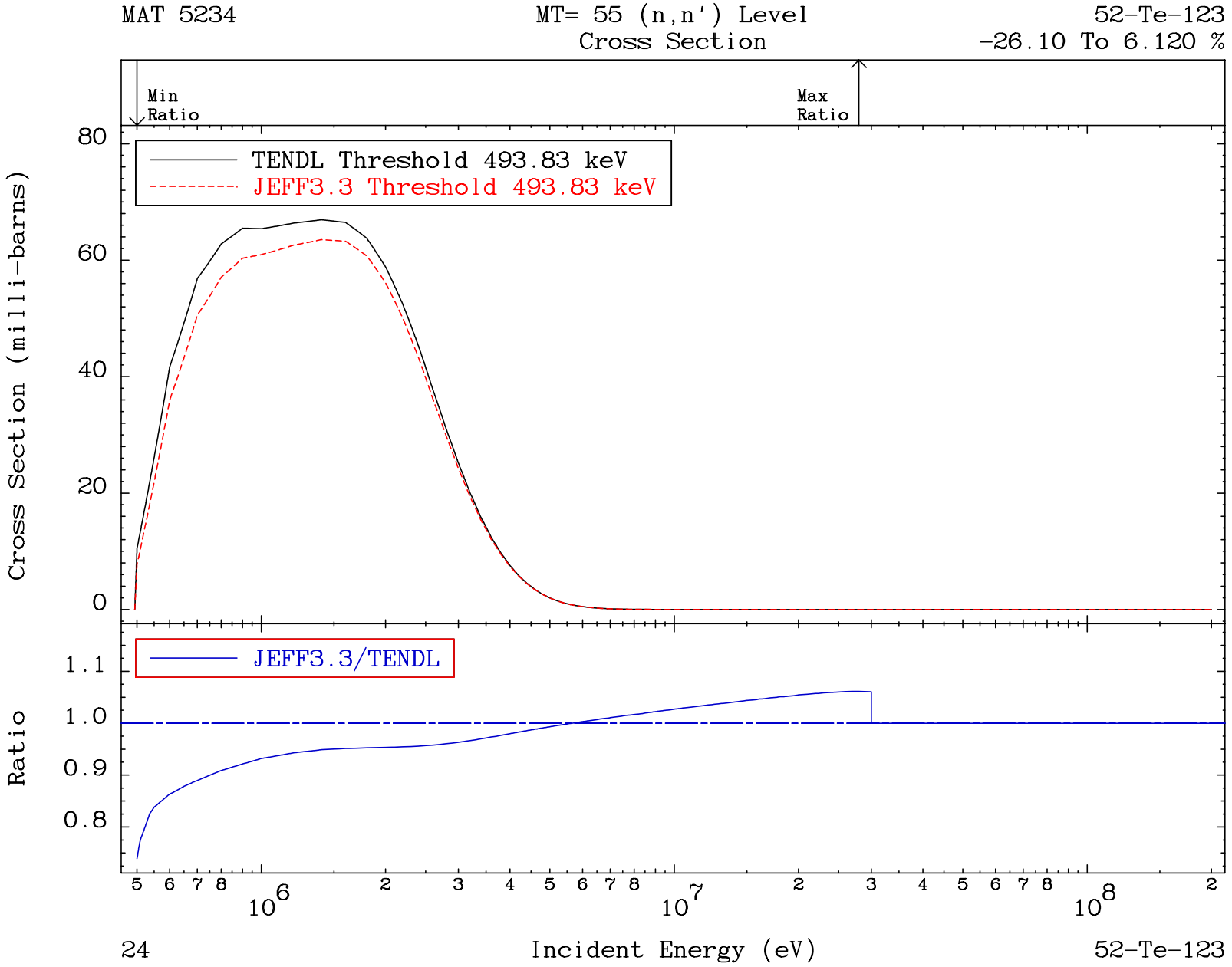

MAT 5234
(n,n') p α
Cross Section
52-Te-123
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.752 MeV
JEFF3.3 Threshold 11.752 MeV
Cross Section (10^-9 barns)
300
200
100
0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
52-Te-123

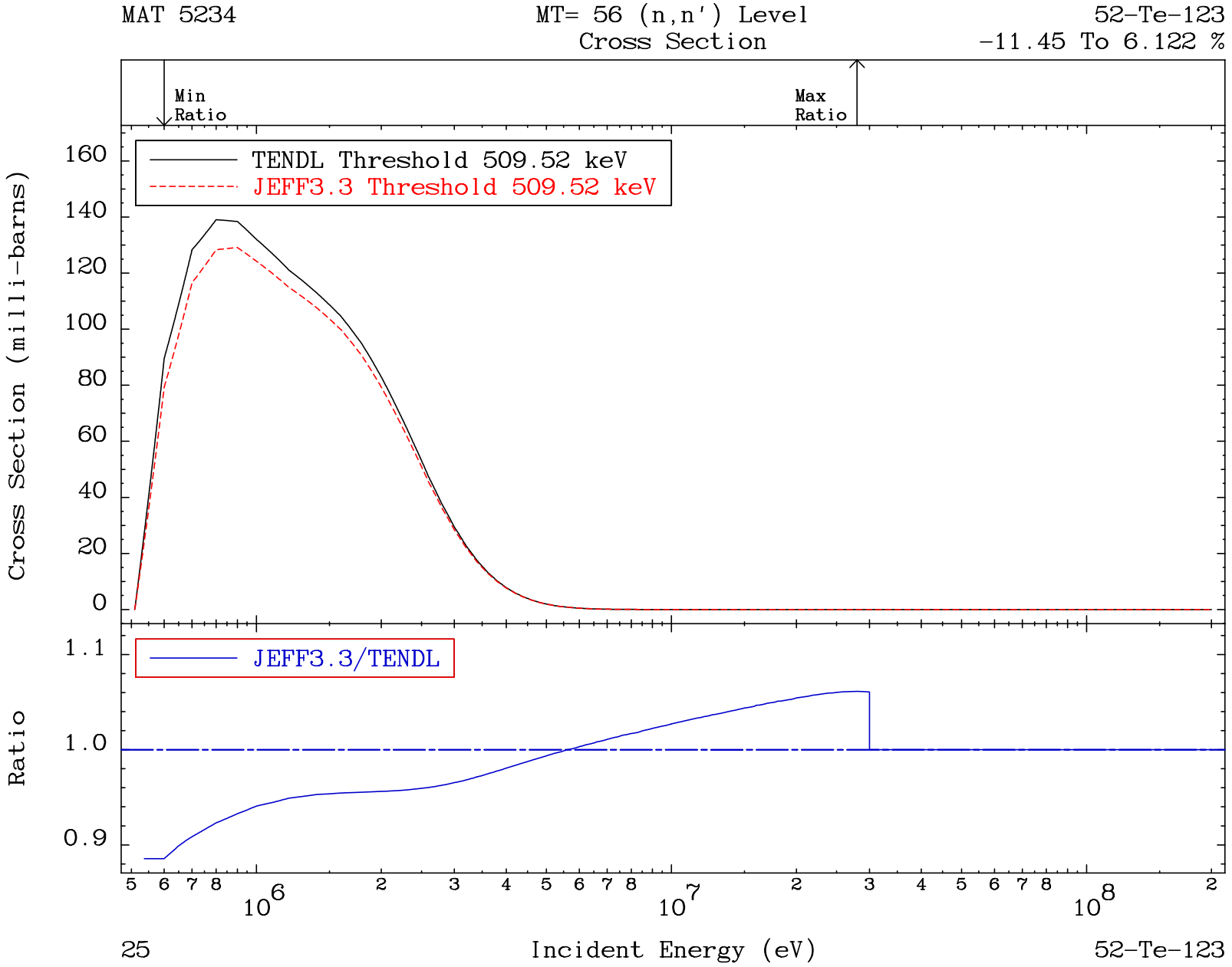

MAT 5234
MT= 51 (n,n') Level
Cross Section
52-Te-123
-15.24 To 6.123 %
Min
Ratio
Max
Ratio
TENDL Threshold 160.33 keV
JEFF3.3 Threshold 160.33 keV
Cross Section (milli-barns)
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
2
3
4
5
6
8
10^6
10^7
10^8
20
Incident Energy (eV)
52-Te-123

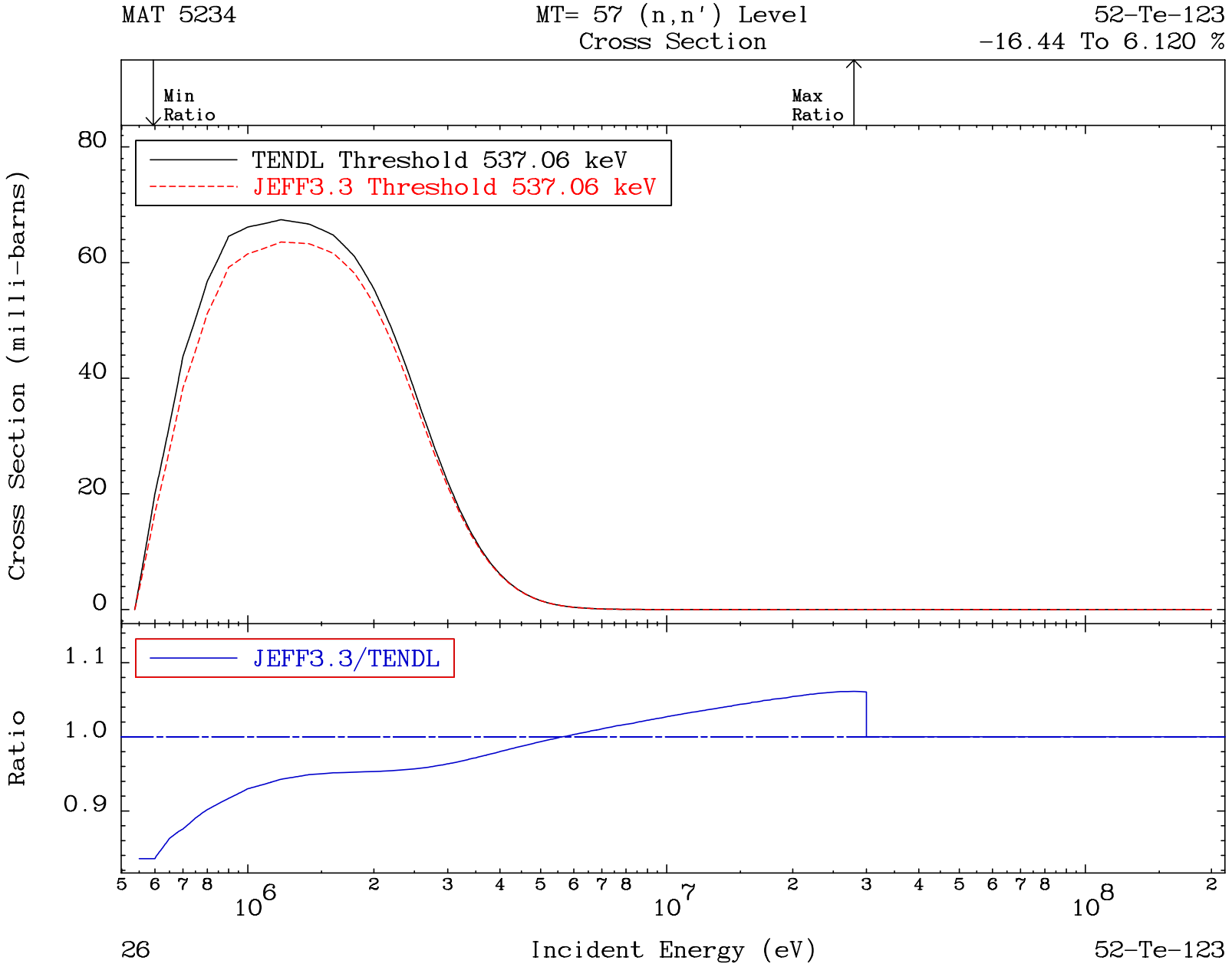

MAT 5234
MT= 52 (n,n') Level
Cross Section
52-Te-123
-46.67 To 6.116 %
Min
Ratio
Max
Ratio
TENDL Threshold 249.50 keV
JEFF3.3 Threshold 249.50 keV
Cross Section (milli-barns)
16
12
8
4
0
JEFF3.3/TENDL
Ratio
1.2
1.0
0.8
0.6
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
52-Te-123

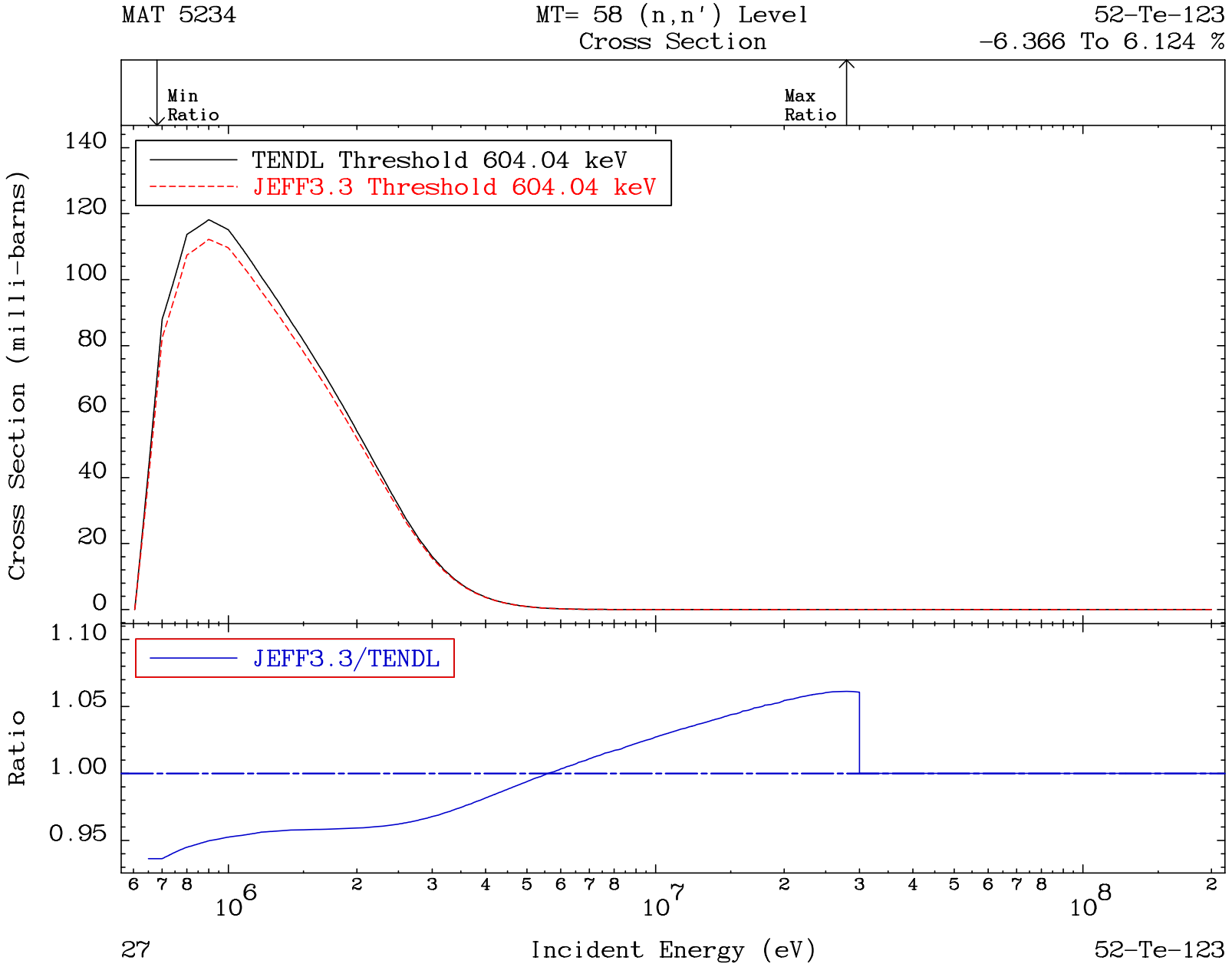

MAT 5234
MT= 53 (n,n') Level
Cross Section
52-Te-123
-37.18 To 6.120 %
Min
Ratio
Max
Ratio
TENDL Threshold 387.50 keV
JEFF3.3 Threshold 387.50 keV
Cross Section (milli-barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.0
0.8
0.6
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
52-Te-123

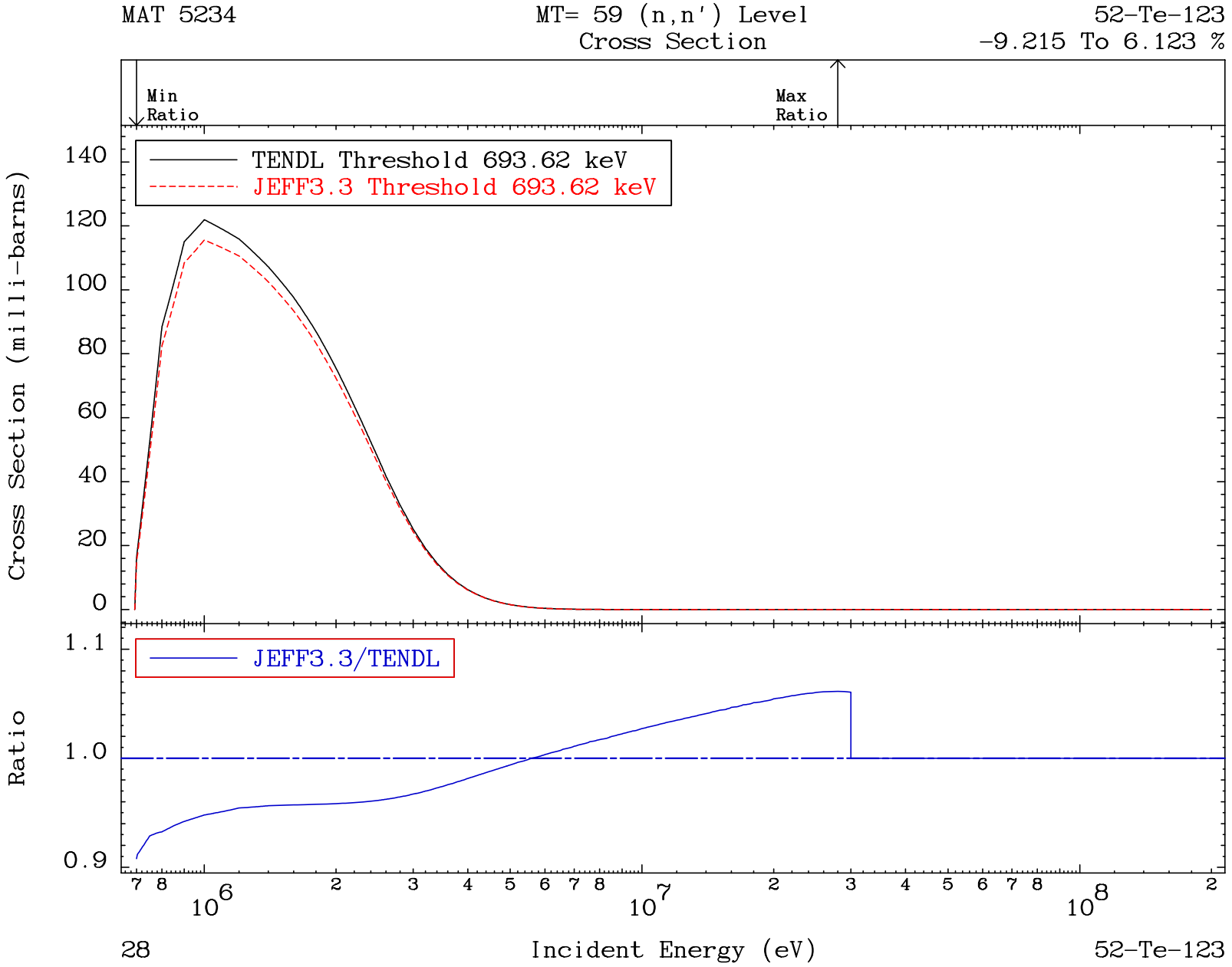

MAT 5234
MT= 54 (n,n') Level
Cross Section
52-Te-123
-11.11 To 6.123 %
Min
Ratio
Max
Ratio
TENDL Threshold 443.60 keV
JEFF3.3 Threshold 443.60 keV
Cross Section (milli-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
52-Te-123

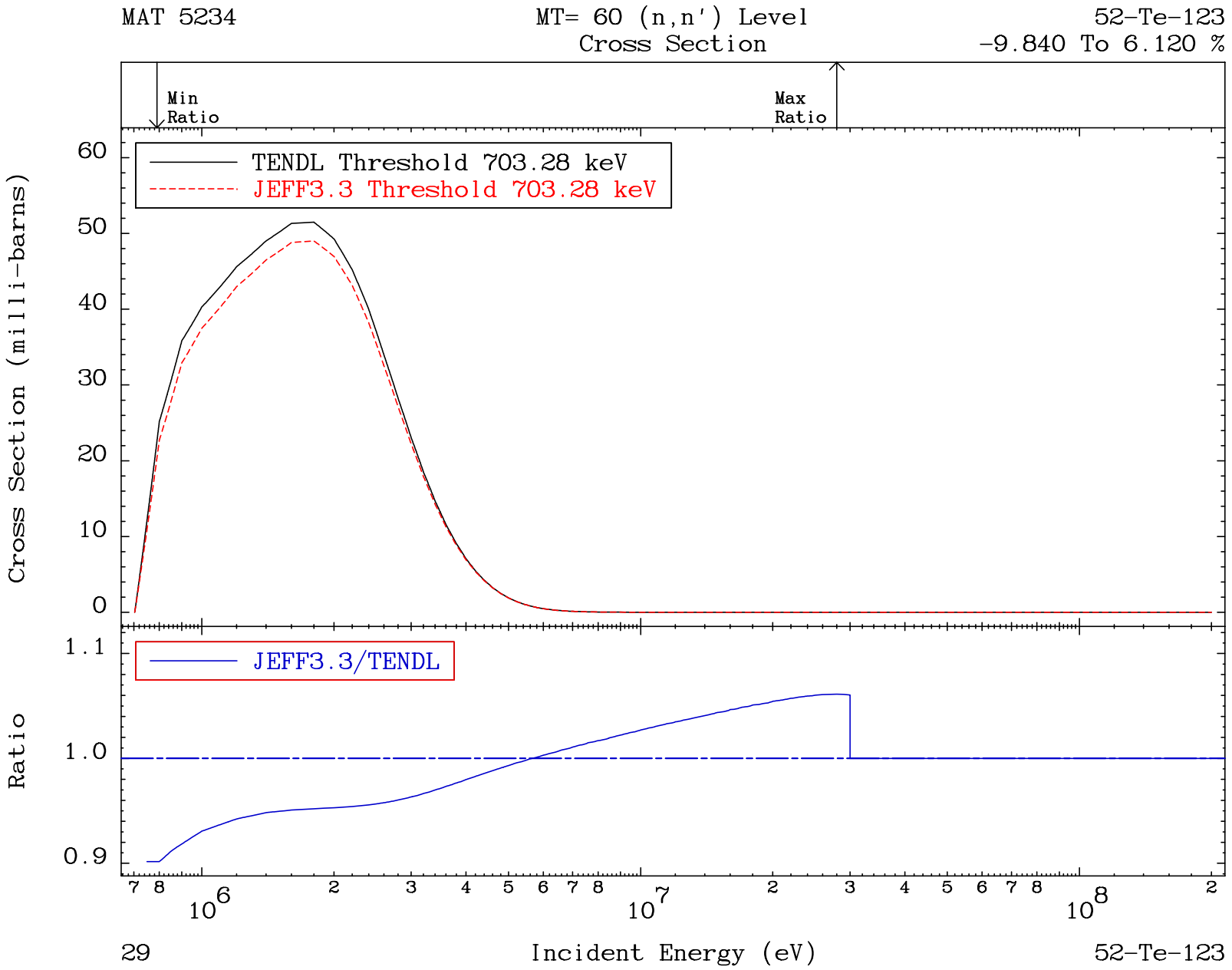

MAT 5234
MT= 55 (n,n') Level
Cross Section
52-Te-123
-26.10 To 6.120 %
Min
Ratio
Max
Ratio
TENDL Threshold 493.83 keV
JEFF3.3 Threshold 493.83 keV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
0.8
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
52-Te-123

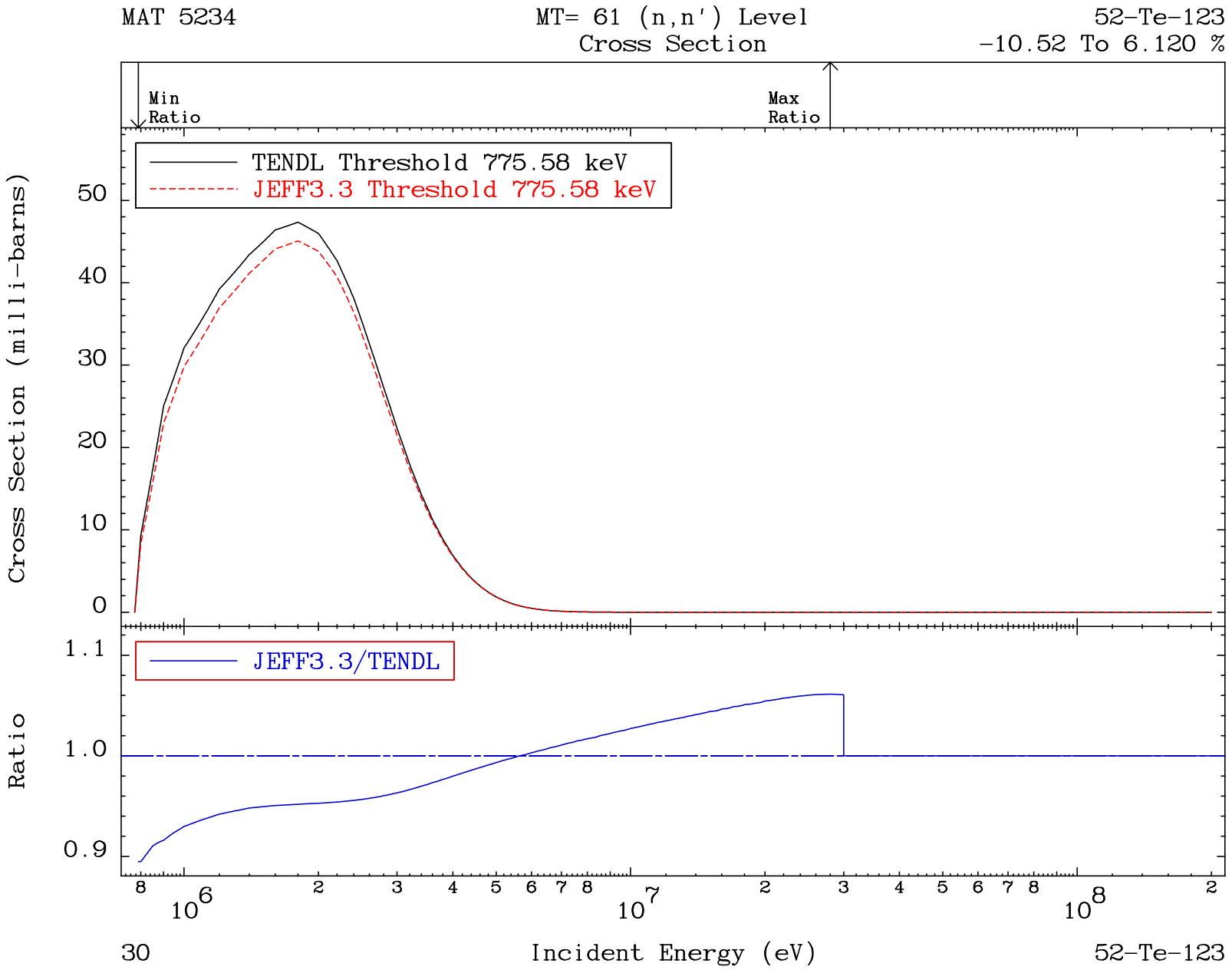

MAT 5234
MT= 56 (n,n') Level
Cross Section
52-Te-123
-11.45 To 6.122 %
Min
Ratio
Max
Ratio
TENDL Threshold 509.52 keV
JEFF3.3 Threshold 509.52 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
25
Incident Energy (eV)
52-Te-123

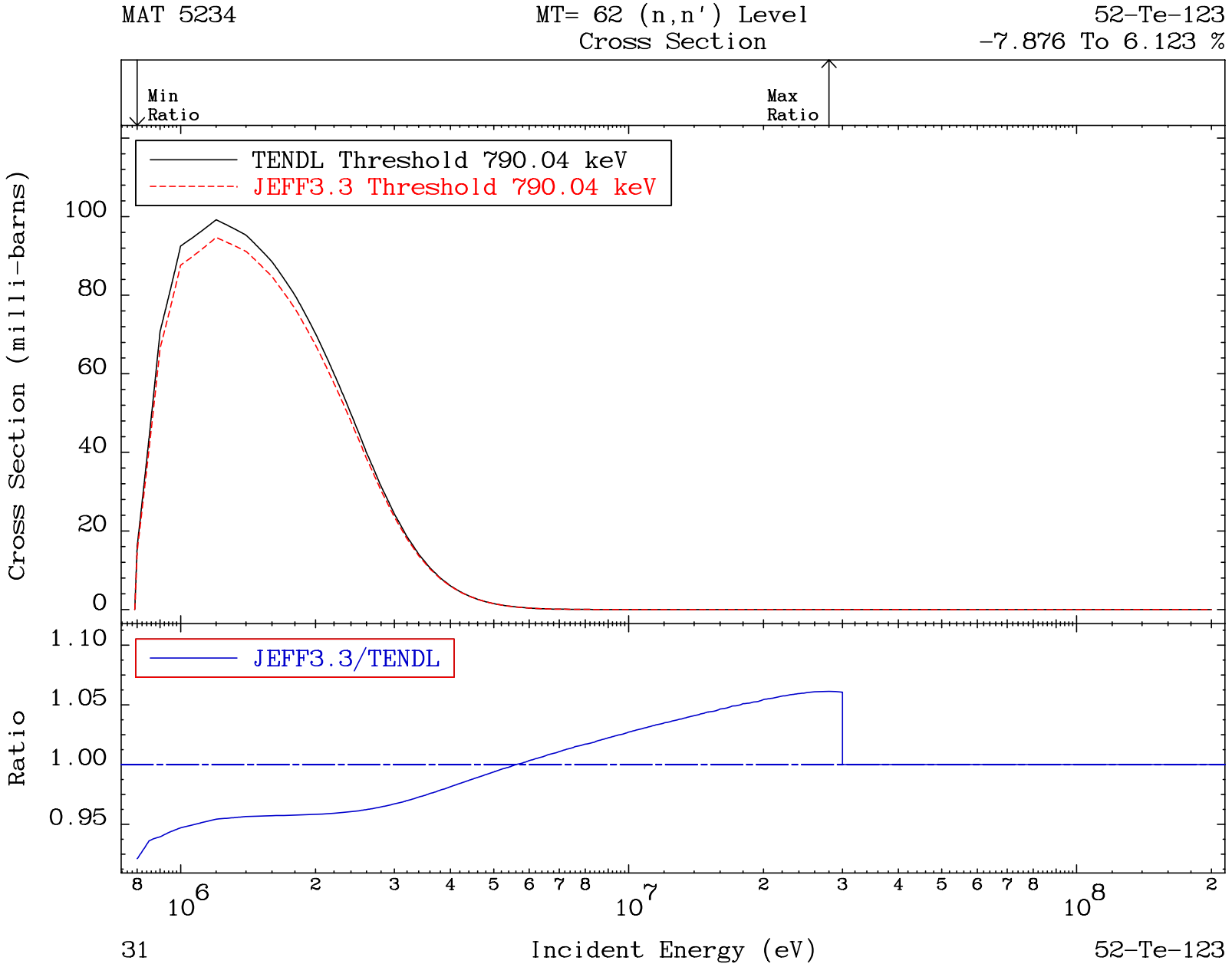

MAT 5234
MT= 57 (n,n') Level
Cross Section
52-Te-123
-16.44 To 6.120 %
Min
Ratio
Max
Ratio
TENDL Threshold 537.06 keV
JEFF3.3 Threshold 537.06 keV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
26
Incident Energy (eV)
52-Te-123

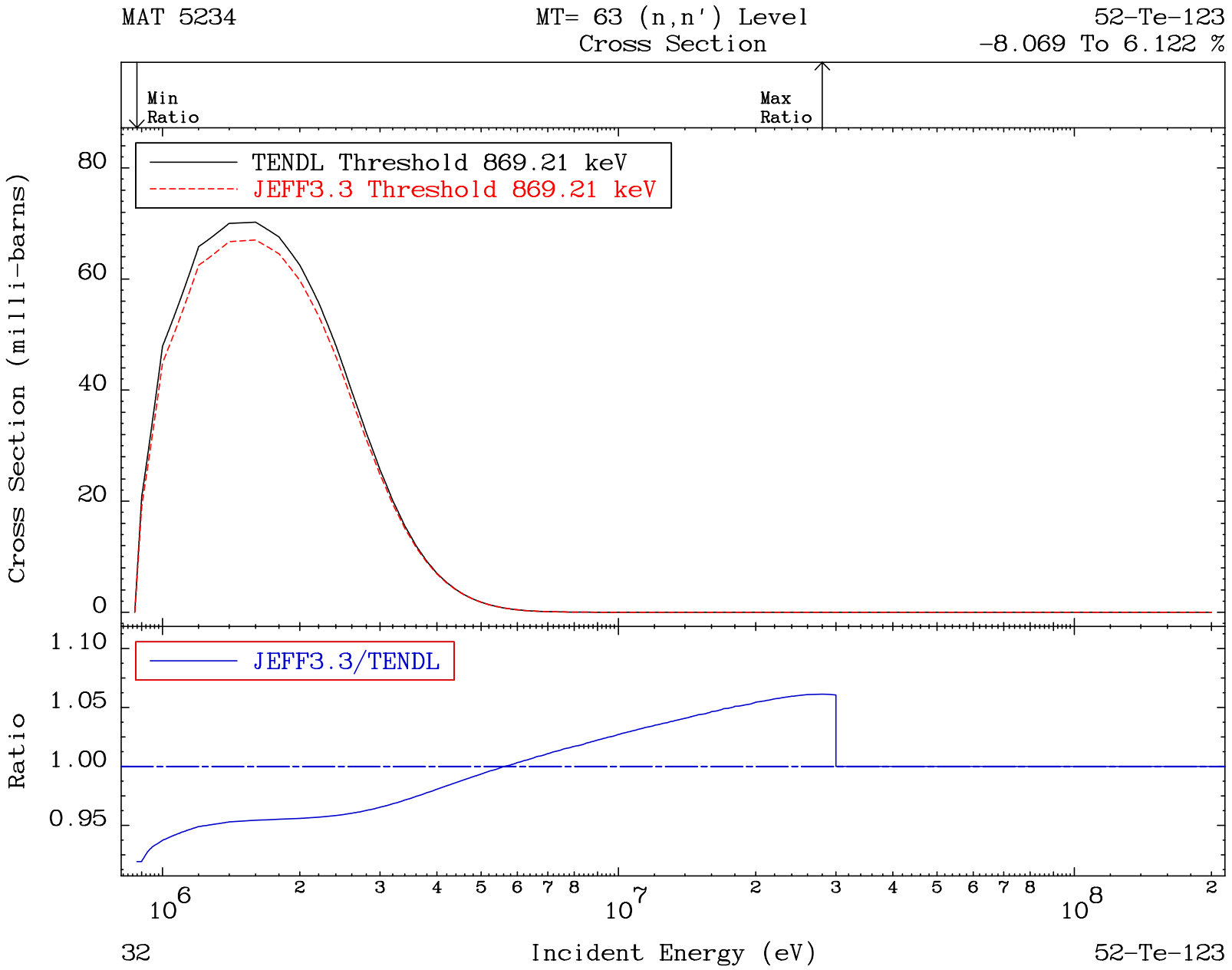

MAT 5234
MT= 58 (n,n') Level
Cross Section
52-Te-123
-6.366 To 6.124 %
Min
Ratio
Max
Ratio
TENDL Threshold 604.04 keV
JEFF3.3 Threshold 604.04 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
0.95
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
52-Te-123

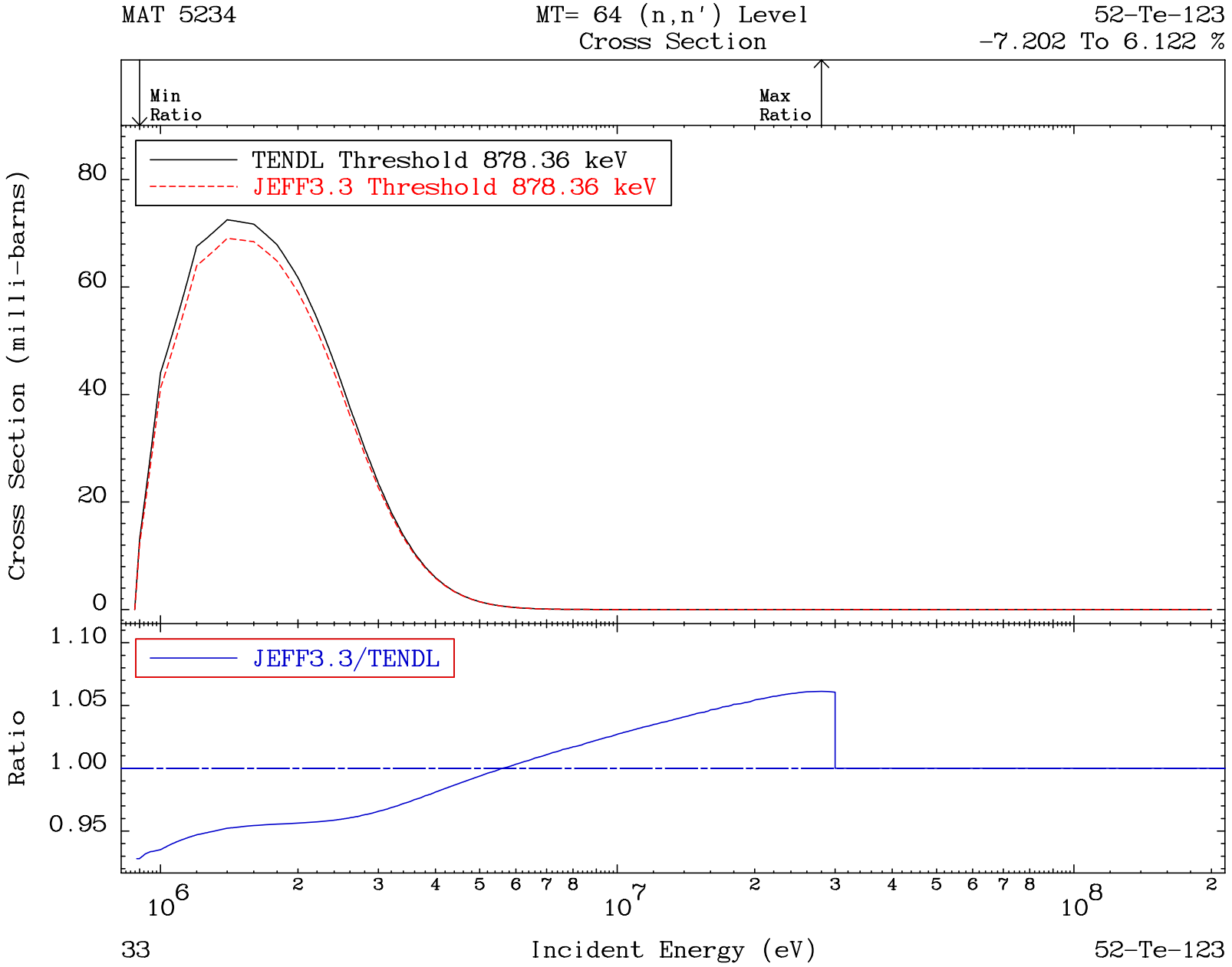

MAT 5234
MT= 59 (n,n') Level
Cross Section
52-Te-123
-9.215 To 6.123 %
Min
Ratio
Max
Ratio
TENDL Threshold 693.62 keV
JEFF3.3 Threshold 693.62 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
28
Incident Energy (eV)
52-Te-123

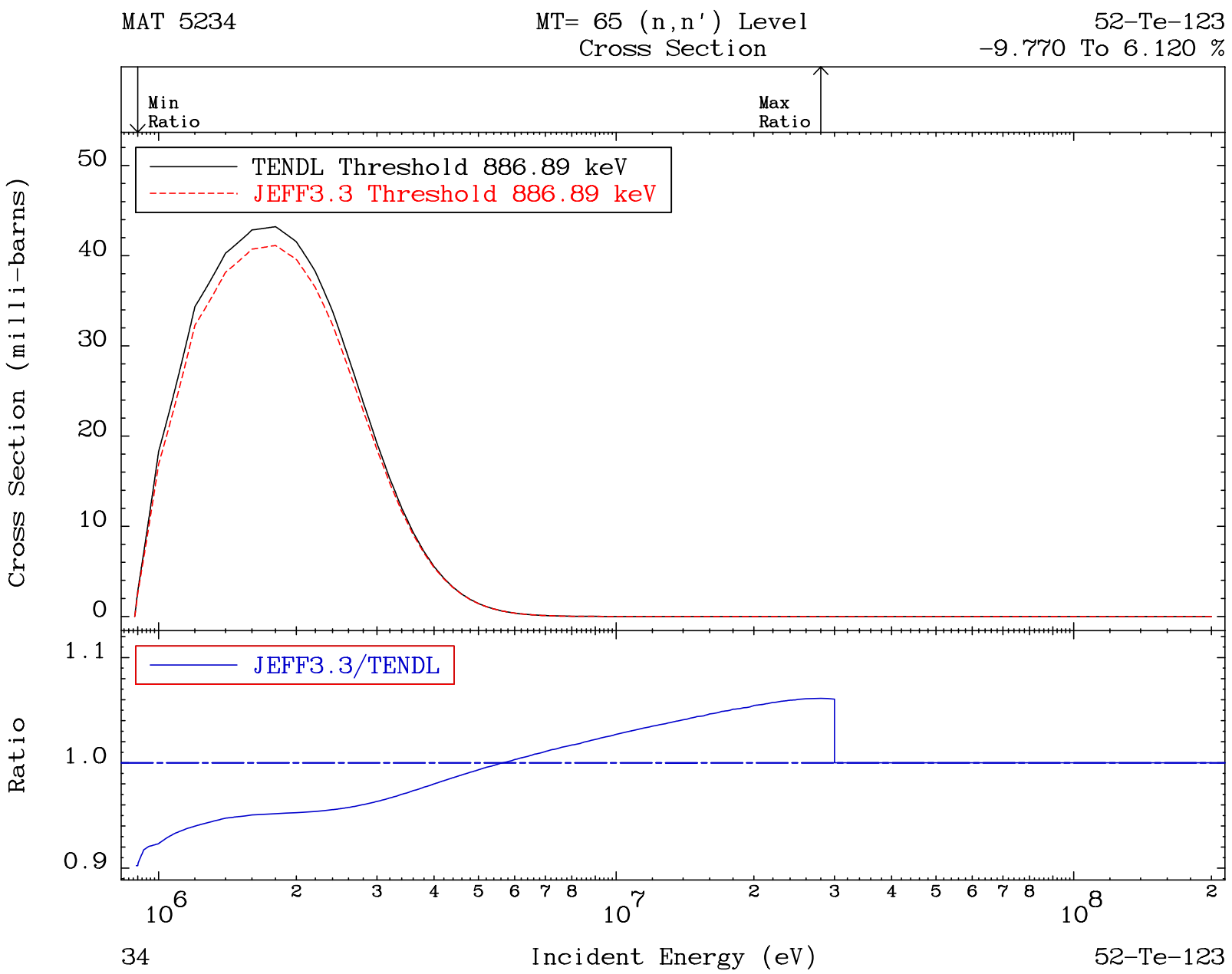

MAT 5234
MT= 60 (n,n') Level
Cross Section
52-Te-123
-9.840 To 6.120 %
Min
Ratio
Max
Ratio
TENDL Threshold 703.28 keV
JEFF3.3 Threshold 703.28 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
29
Incident Energy (eV)
52-Te-123

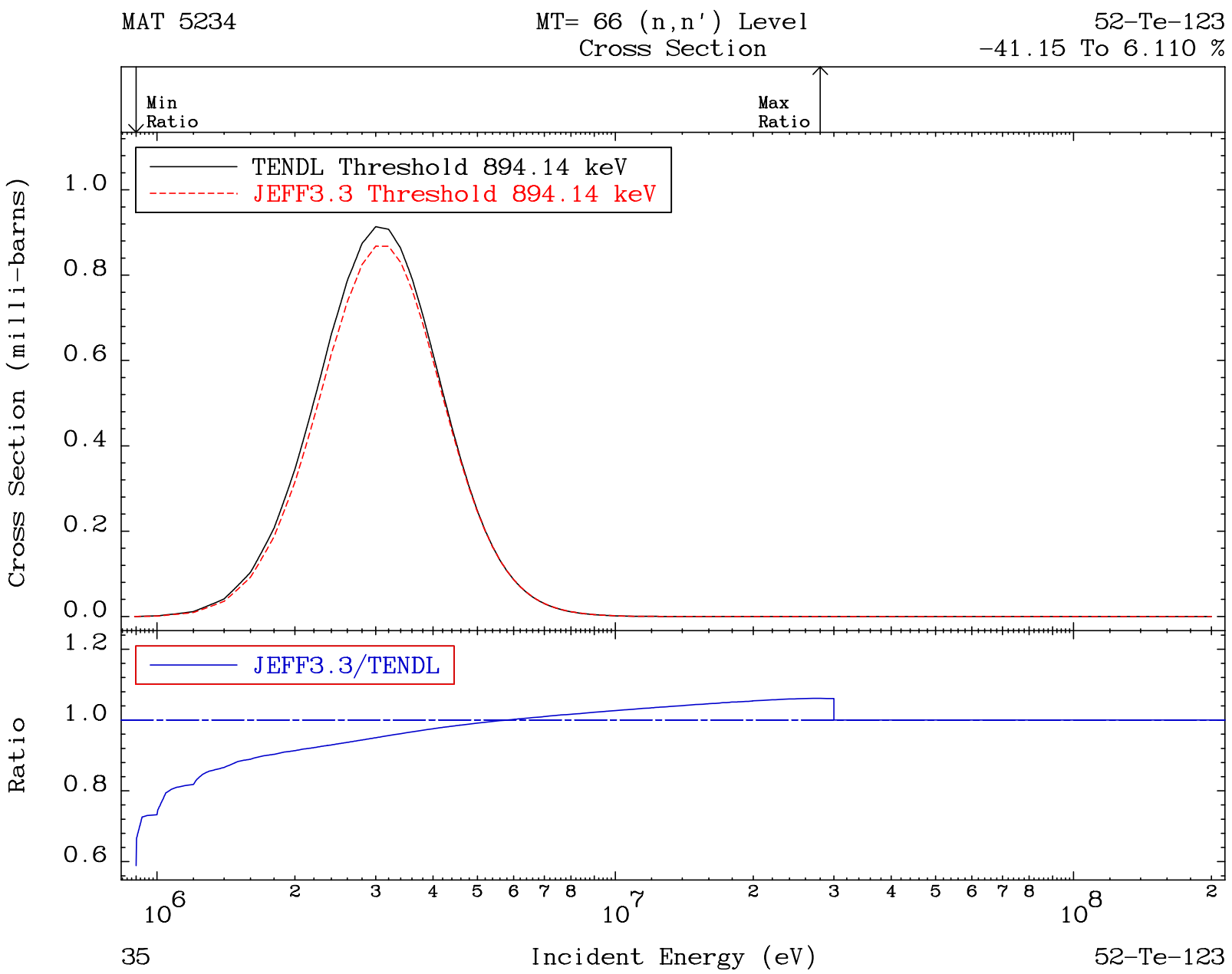

MAT 5234
MT= 61 (n,n') Level
Cross Section
52-Te-123
-10.52 To 6.120 %
Min
Ratio
Max
Ratio
TENDL Threshold 775.58 keV
JEFF3.3 Threshold 775.58 keV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
30
Incident Energy (eV)
52-Te-123

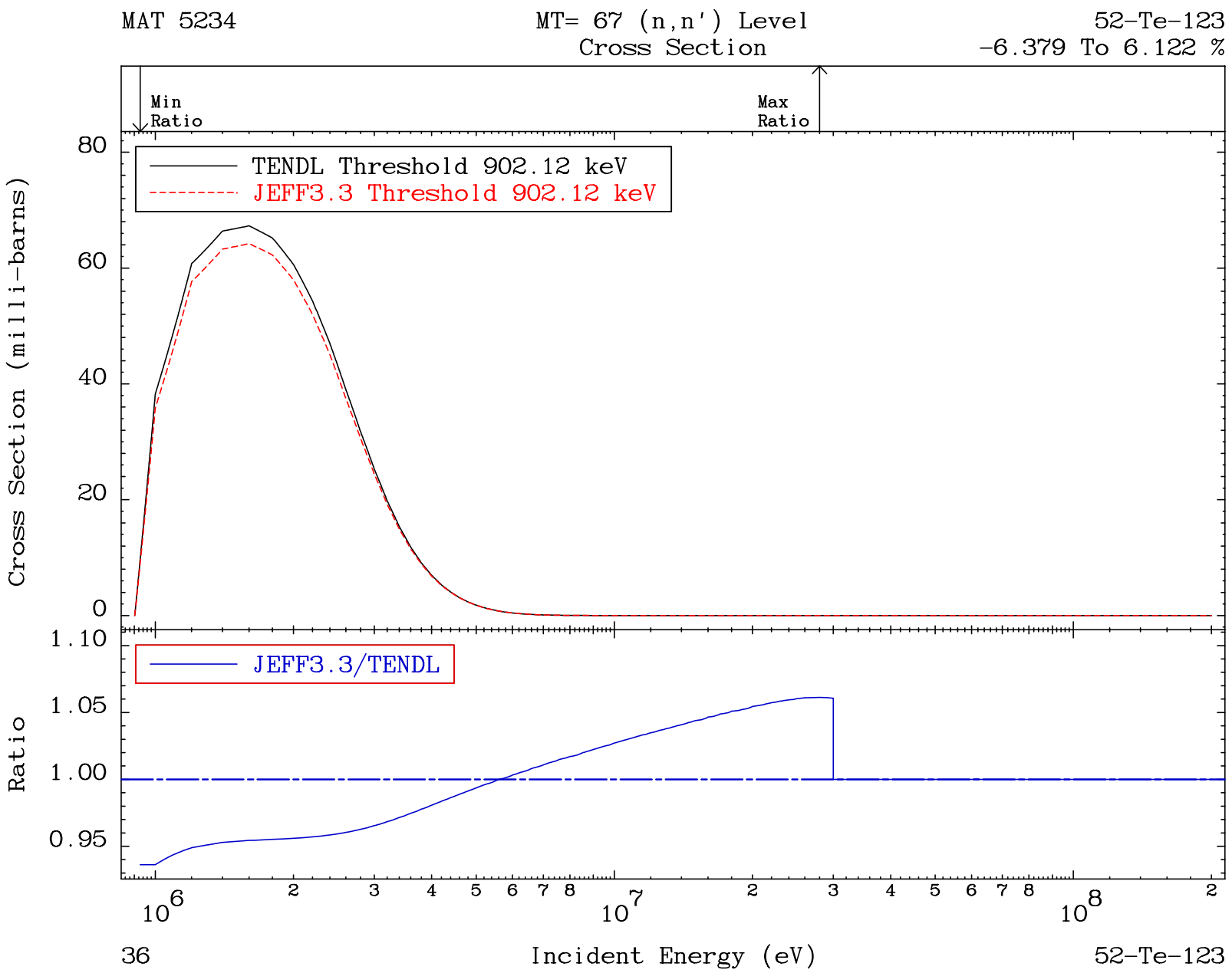

MAT 5234
MT= 62 (n,n') Level
Cross Section
52-Te-123
-7.876 To 6.123 %
Min
Ratio
Max
Ratio
TENDL Threshold 790.04 keV
JEFF3.3 Threshold 790.04 keV
Cross Section (milli-barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
0.95
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
31
Incident Energy (eV)
52-Te-123

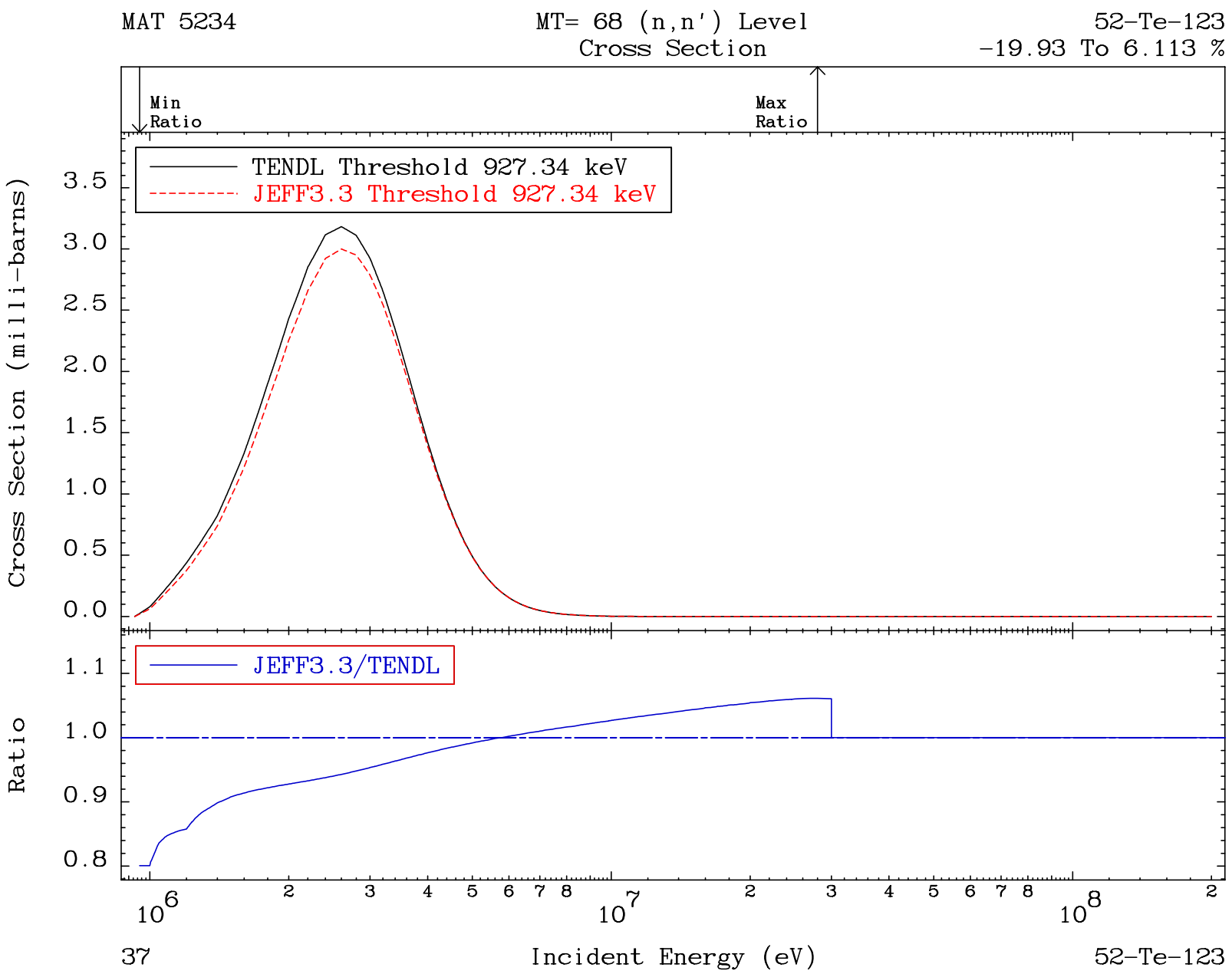

MAT 5234
MT= 63 (n,n') Level
Cross Section
52-Te-123
-8.069 To 6.122 %
Min
Ratio
Max
Ratio
TENDL Threshold 869.21 keV
JEFF3.3 Threshold 869.21 keV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
0.95
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
32
Incident Energy (eV)
52-Te-123

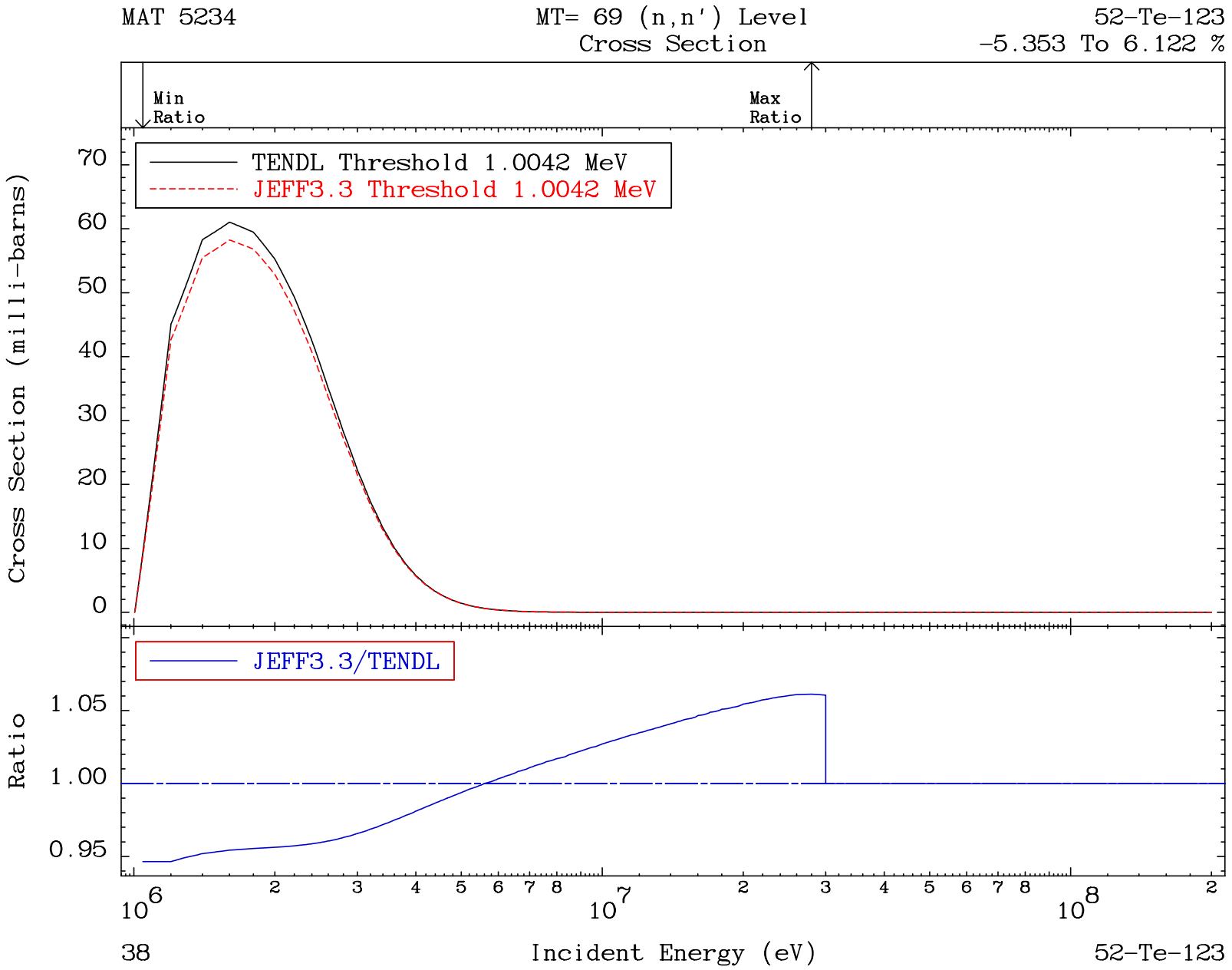

MAT 5234
MT= 64 (n,n') Level
Cross Section
52-Te-123
-7.202 To 6.122 %
Min
Ratio
Max
Ratio
TENDL Threshold 878.36 keV
JEFF3.3 Threshold 878.36 keV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
0.95
10^6
10^7
10^8
33
Incident Energy (eV)
52-Te-123

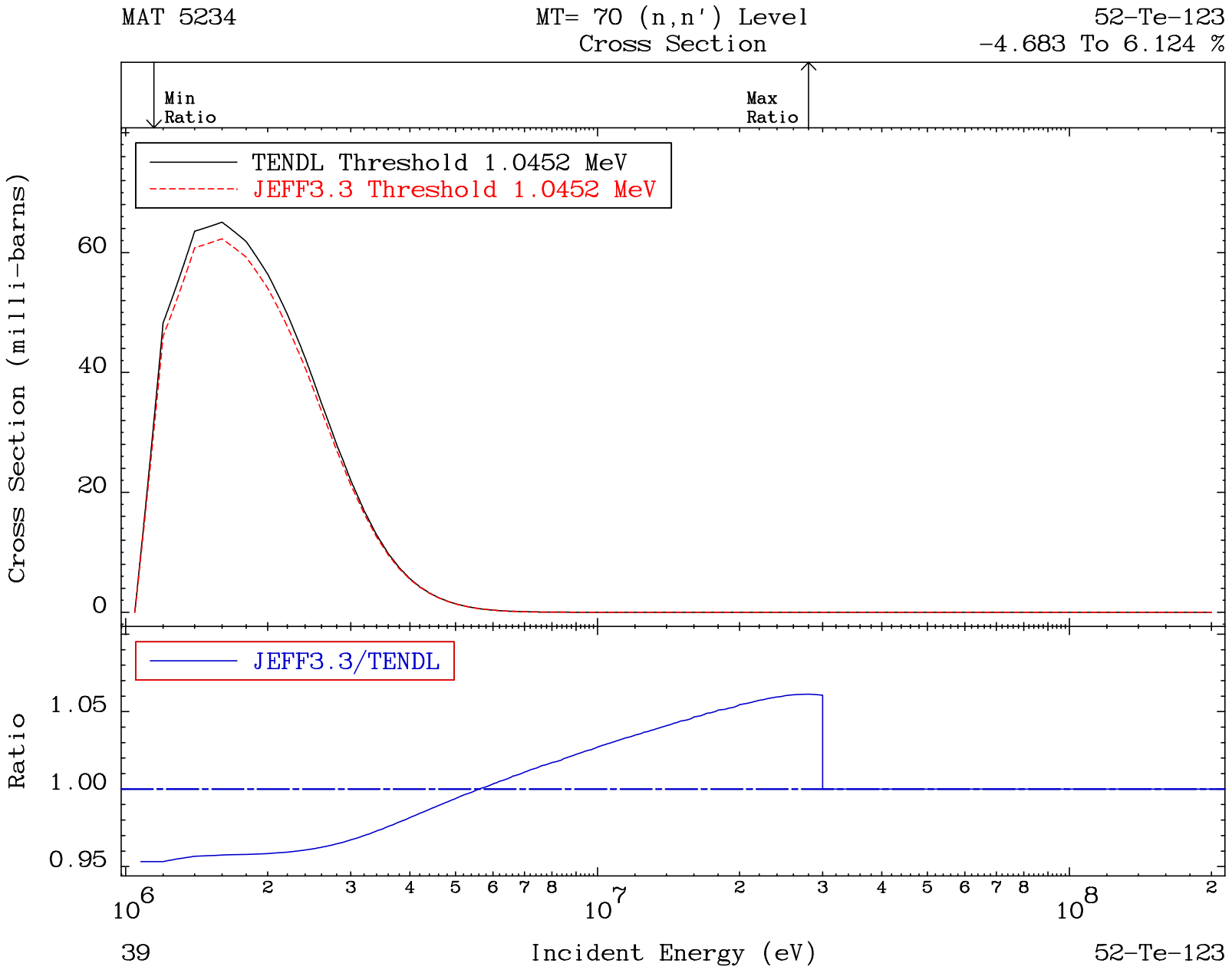

MAT 5234
MT= 65 (n,n') Level
Cross Section
52-Te-123
-9.770 To 6.120 %
Min
Ratio
Max
Ratio
TENDL Threshold 886.89 keV
JEFF3.3 Threshold 886.89 keV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
34
Incident Energy (eV)
52-Te-123

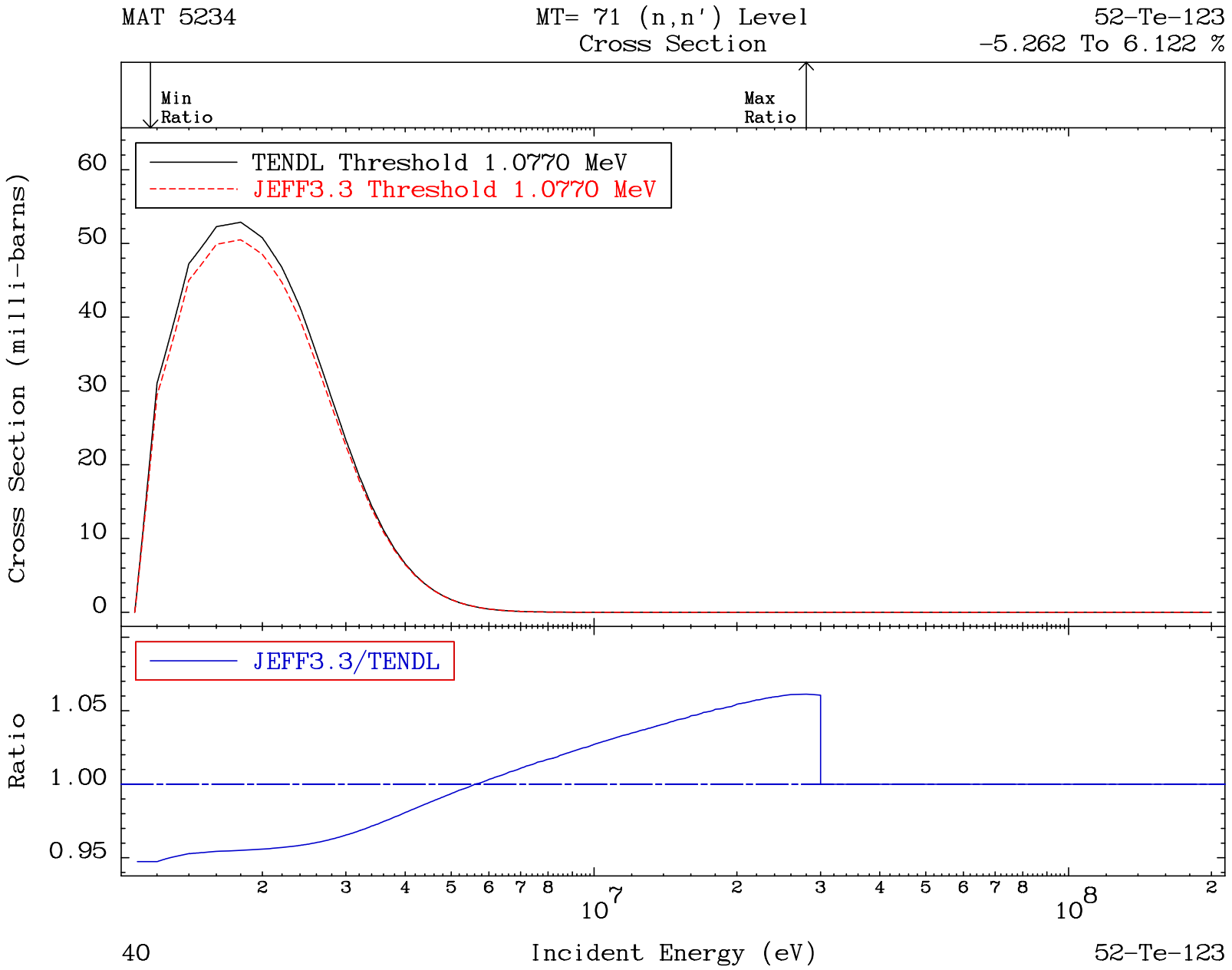

MAT 5234
MT= 66 (n,n') Level
Cross Section
52-Te-123
-41.15 To 6.110 %
Min
Ratio
Max
Ratio
TENDL Threshold 894.14 keV
JEFF3.3 Threshold 894.14 keV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.2
1.0
0.8
0.6
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
35
Incident Energy (eV)
52-Te-123

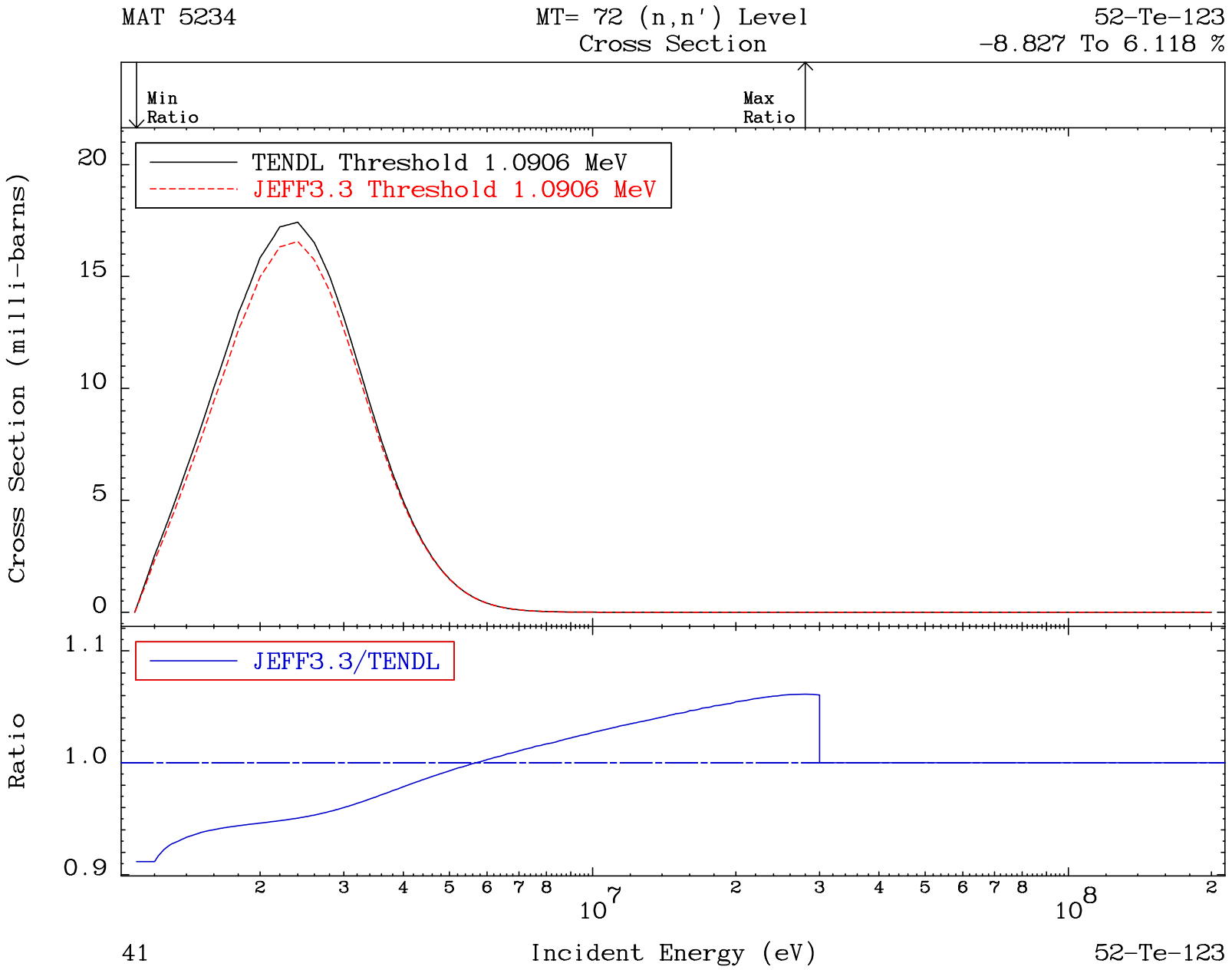

MAT 5234
MT= 67 (n,n') Level
Cross Section
52-Te-123
-6.379 To 6.122 %
Min
Ratio
Max
Ratio
TENDL Threshold 902.12 keV
JEFF3.3 Threshold 902.12 keV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
0.95
10^6
10^7
10^8
36
Incident Energy (eV)
52-Te-123

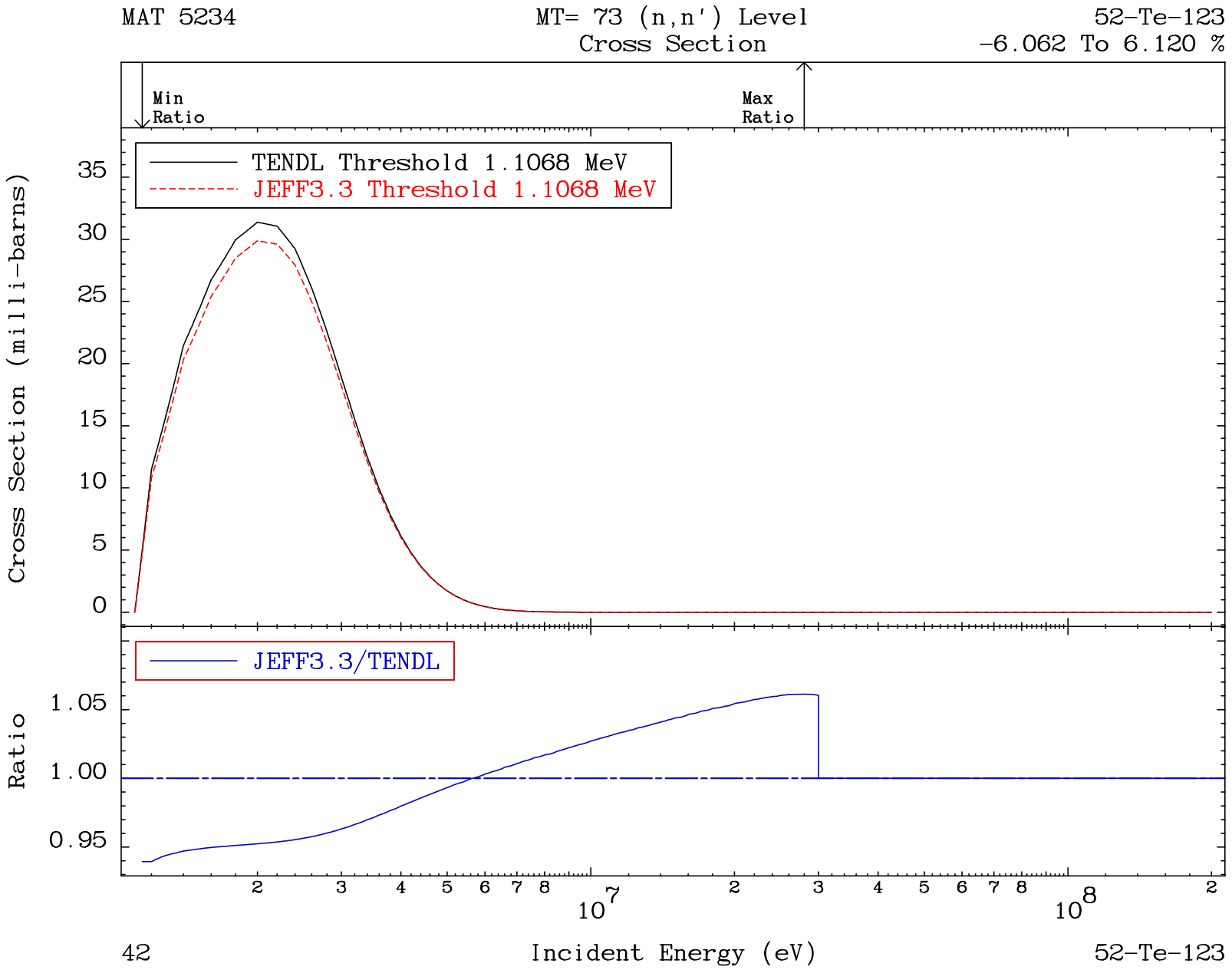

MAT 5234
MT= 68 (n,n') Level
Cross Section
52-Te-123
-19.93 To 6.113 %
Min
Ratio
Max
Ratio
TENDL Threshold 927.34 keV
JEFF3.3 Threshold 927.34 keV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
0.8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
37
Incident Energy (eV)
52-Te-123

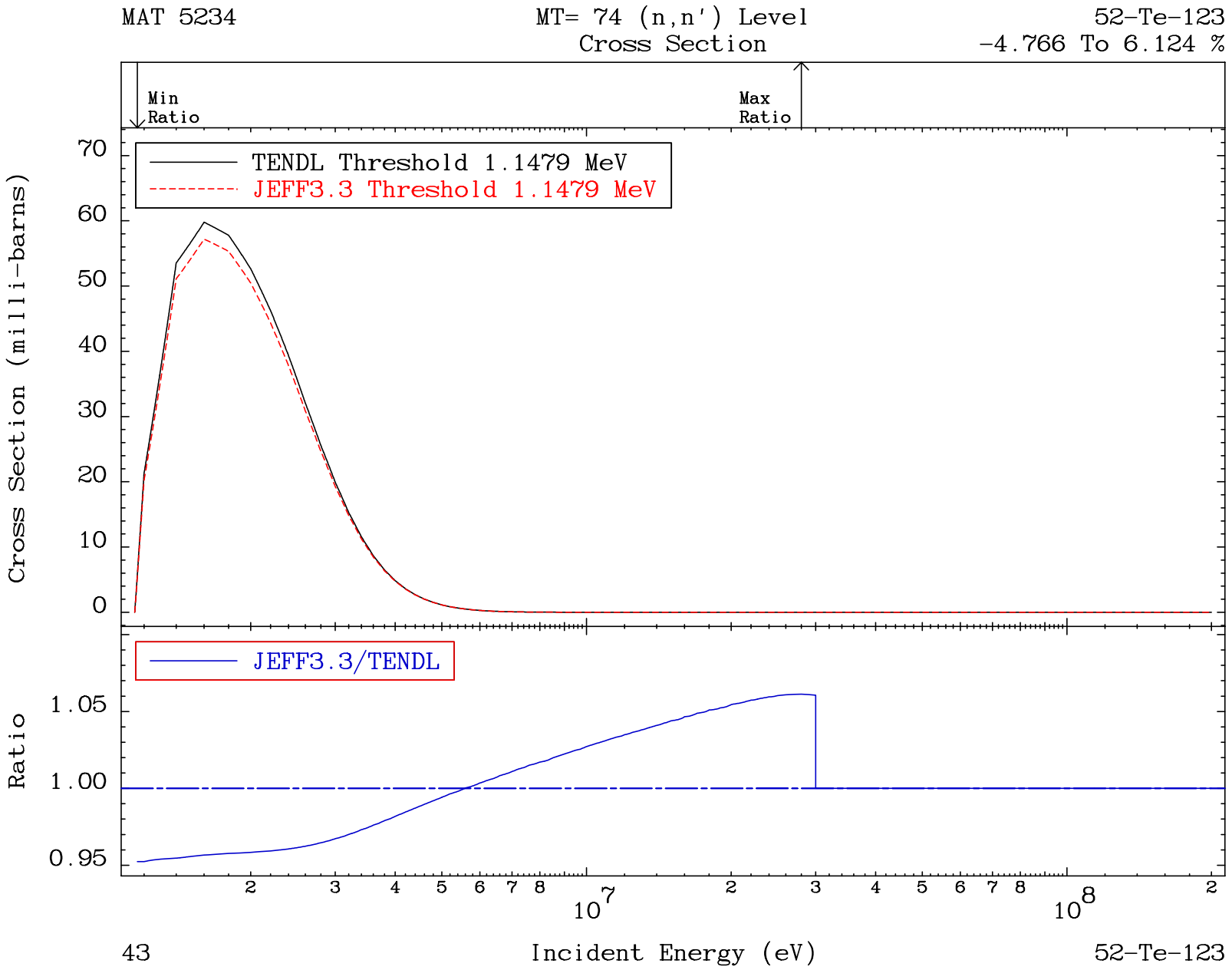

MAT 5234
MT= 69 (n,n') Level
Cross Section
52-Te-123
-5.353 To 6.122 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0042 MeV
JEFF3.3 Threshold 1.0042 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.05
1.00
0.95
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
38
Incident Energy (eV)
52-Te-123

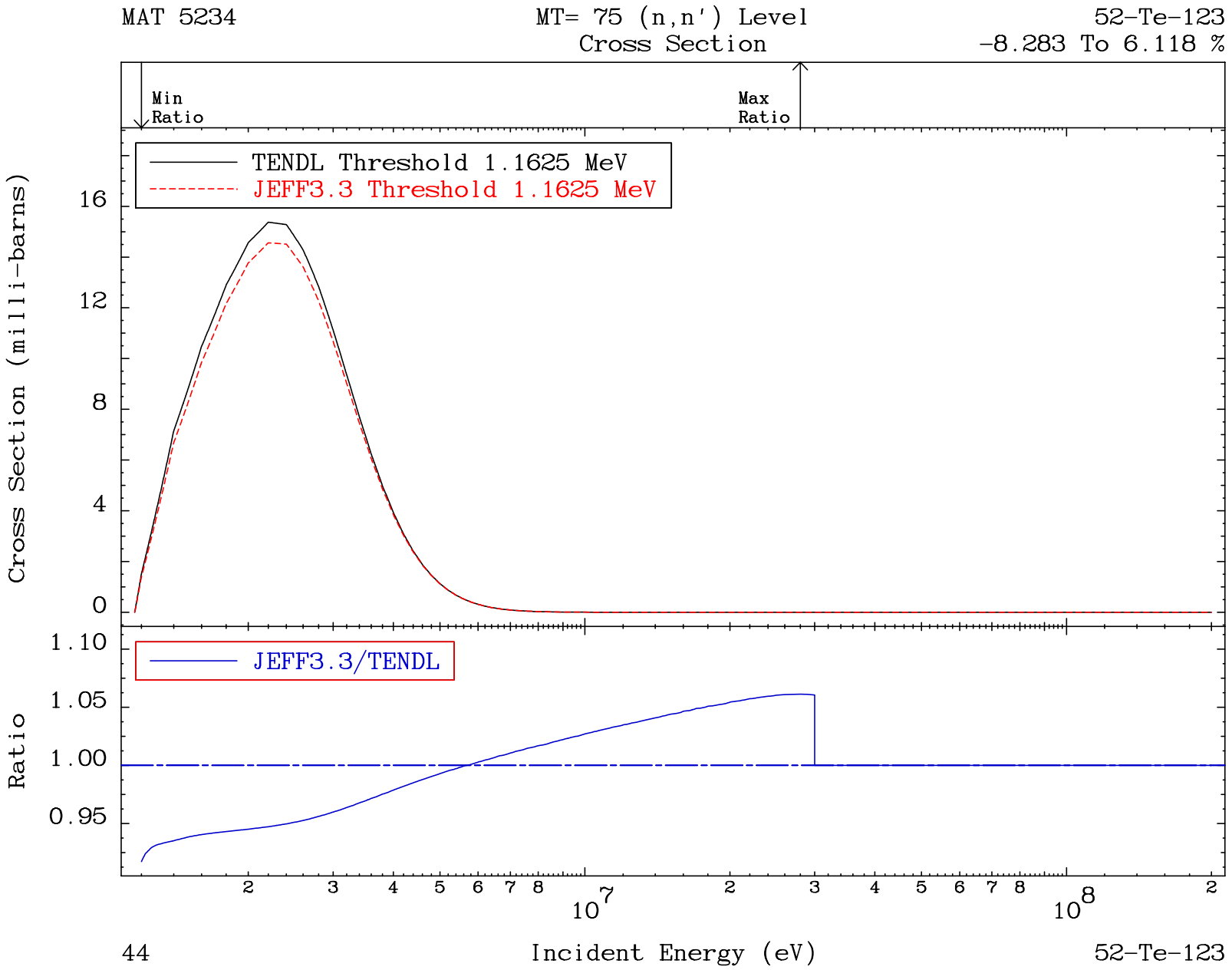

MAT 5234
MT= 70 (n,n') Level
Cross Section
52-Te-123
-4.683 To 6.124 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0452 MeV
JEFF3.3 Threshold 1.0452 MeV
Cross Section (milli-barns)
60
40
20
0
JEFF3.3/TENDL
Ratio
1.05
1.00
0.95
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
39
Incident Energy (eV)
52-Te-123

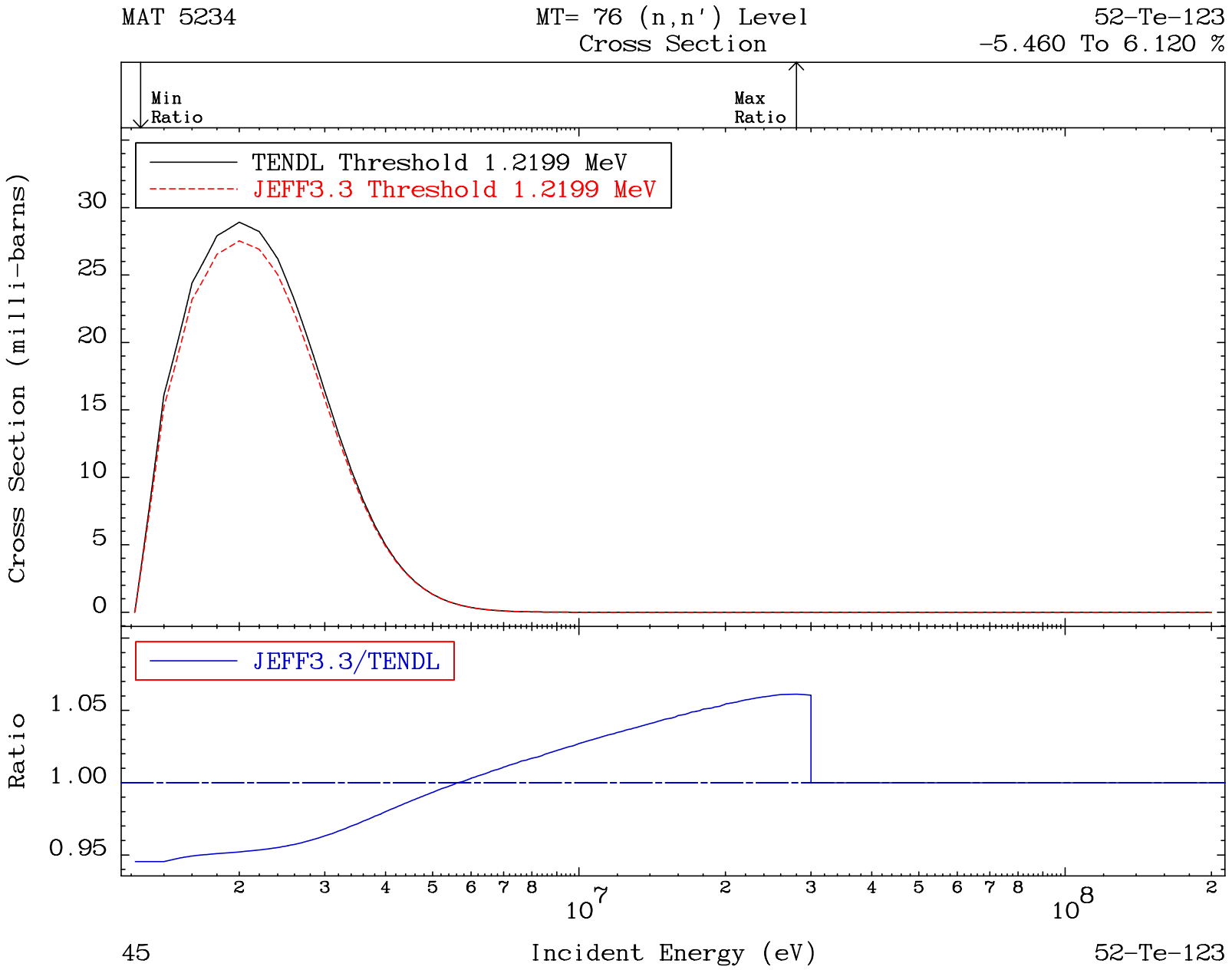

MAT 5234
MT= 71 (n,n') Level
Cross Section
52-Te-123
-5.262 To 6.122 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0770 MeV
JEFF3.3 Threshold 1.0770 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.05
1.00
0.95
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
40
Incident Energy (eV)
52-Te-123

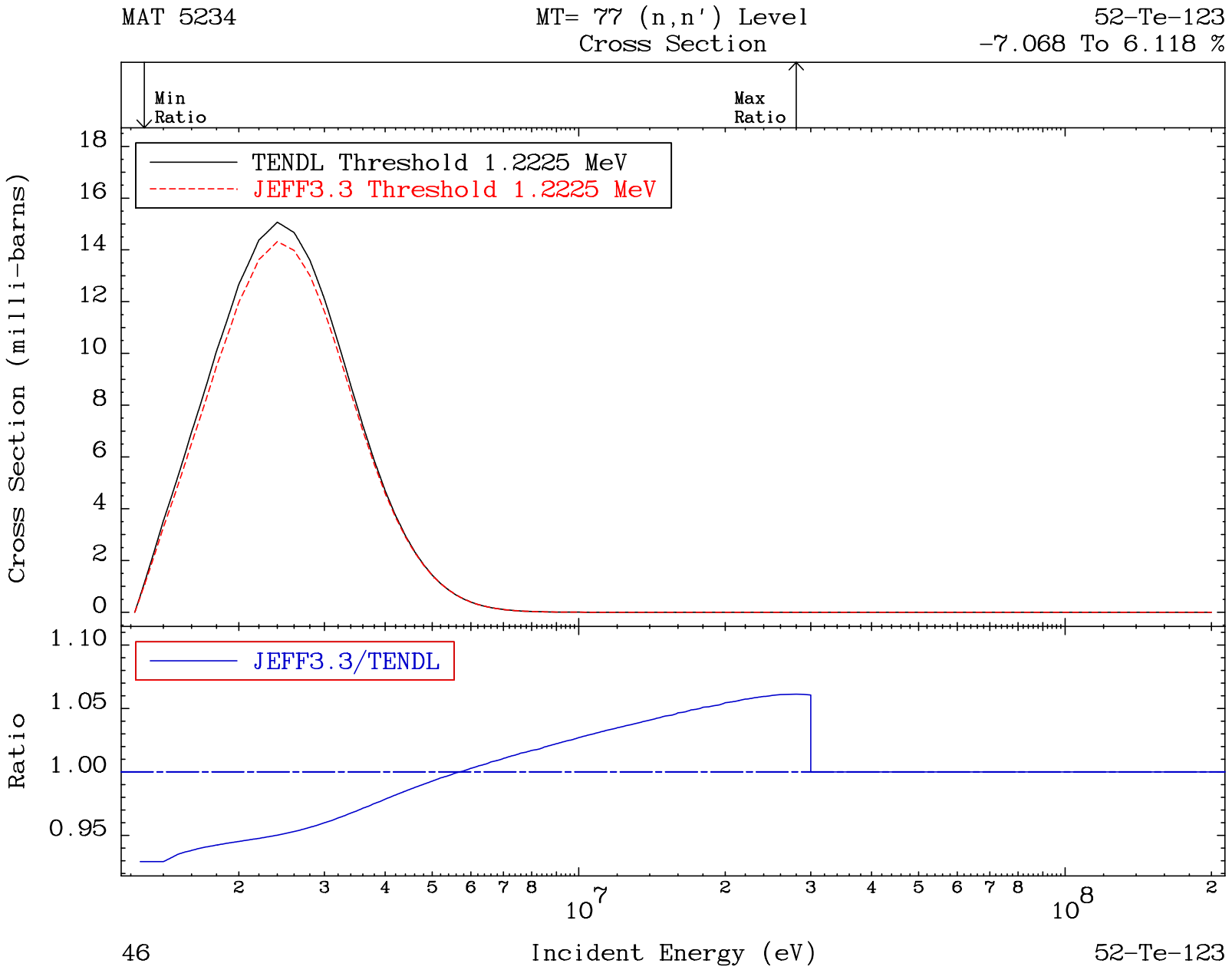

MAT 5234
MT= 72 (n,n') Level
Cross Section
52-Te-123
-8.827 To 6.118 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0906 MeV
JEFF3.3 Threshold 1.0906 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
41
Incident Energy (eV)
52-Te-123

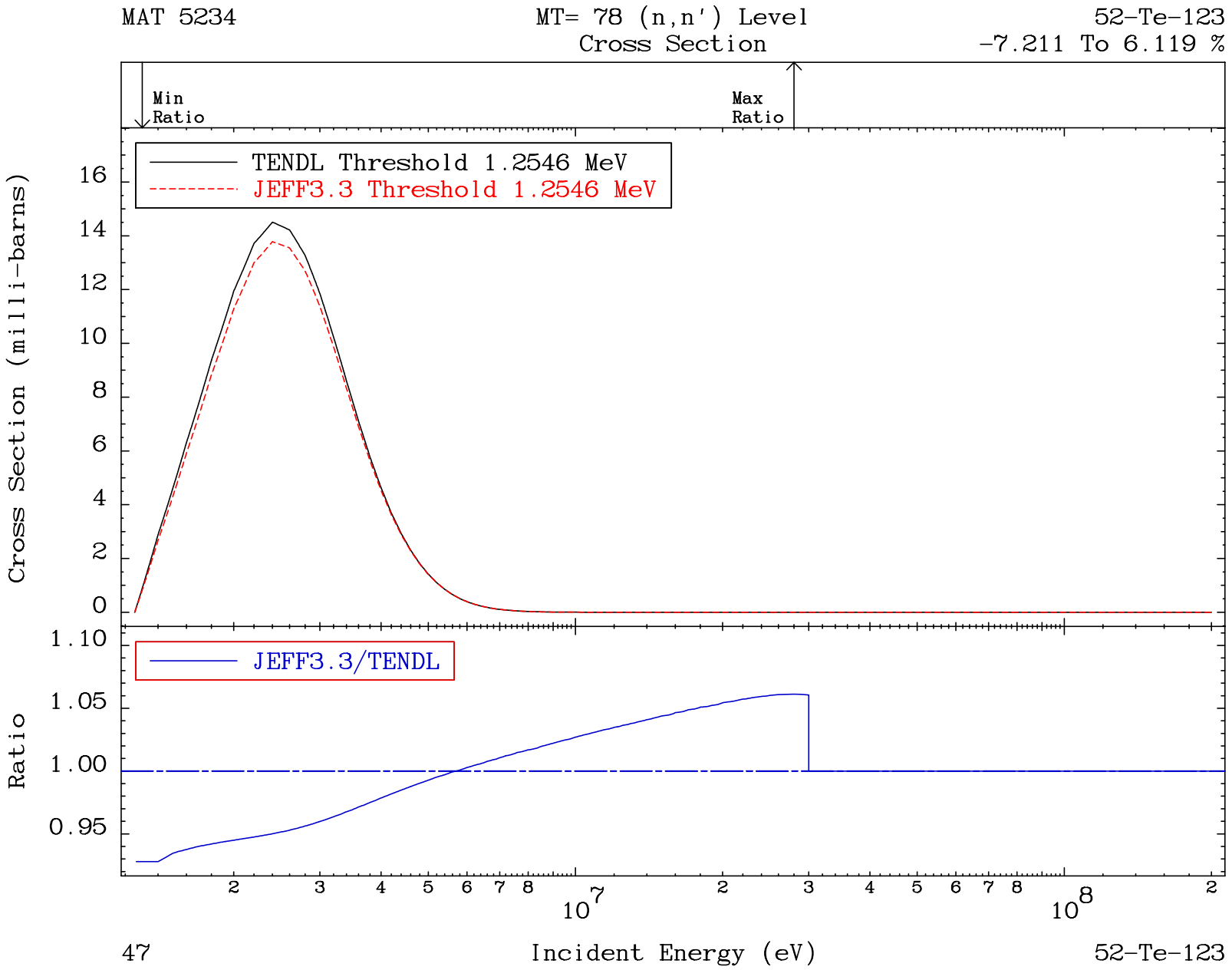

MAT 5234
MT= 73 (n,n') Level
Cross Section
52-Te-123
-6.062 To 6.120 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.1068 MeV
JEFF3.3 Threshold 1.1068 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.05
1.00
0.95
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
42
Incident Energy (eV)
52-Te-123

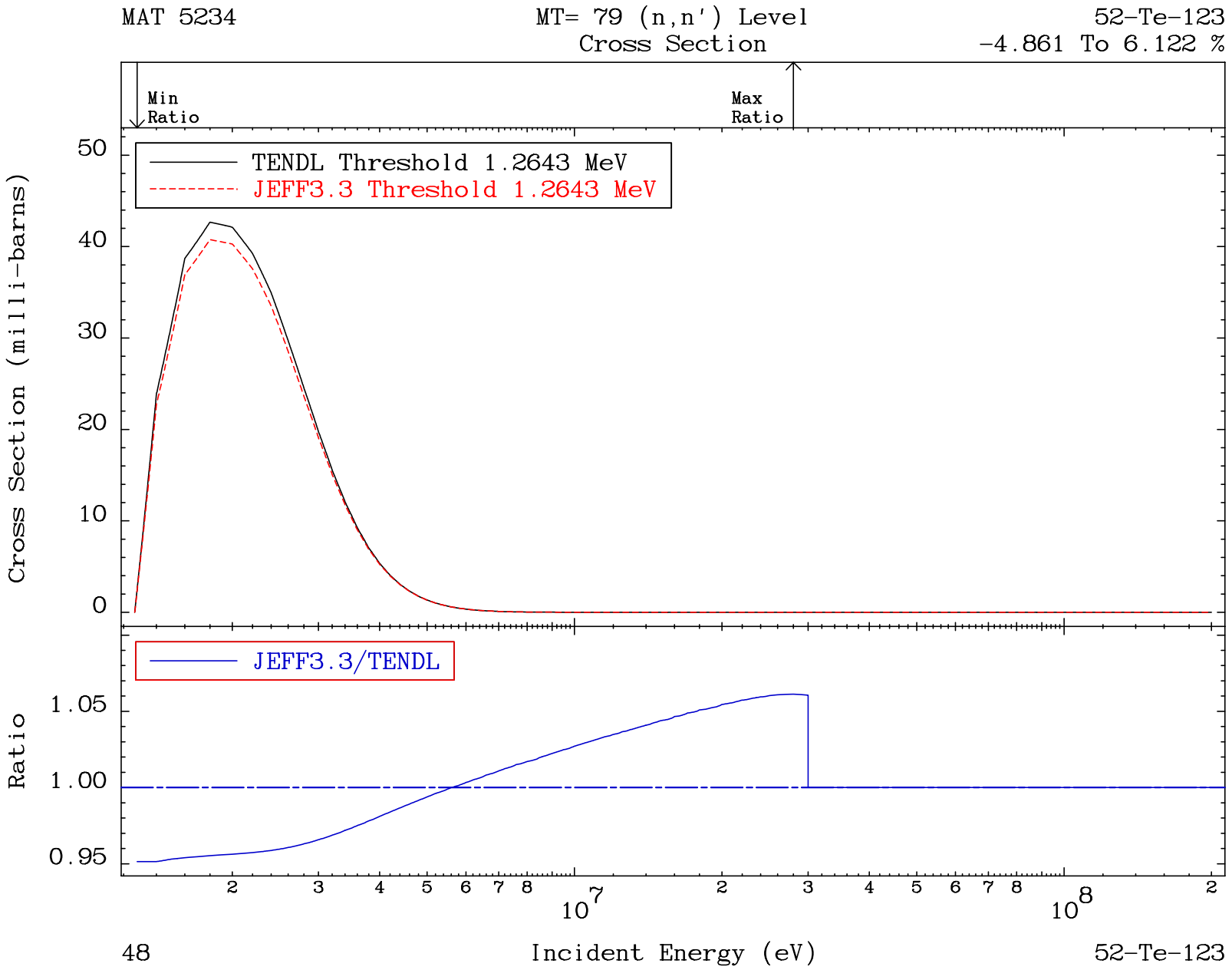

MAT 5234
MT= 74 (n,n') Level
Cross Section
52-Te-123
-4.766 To 6.124 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.1479 MeV
JEFF3.3 Threshold 1.1479 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.05
1.00
0.95
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
43
Incident Energy (eV)
52-Te-123

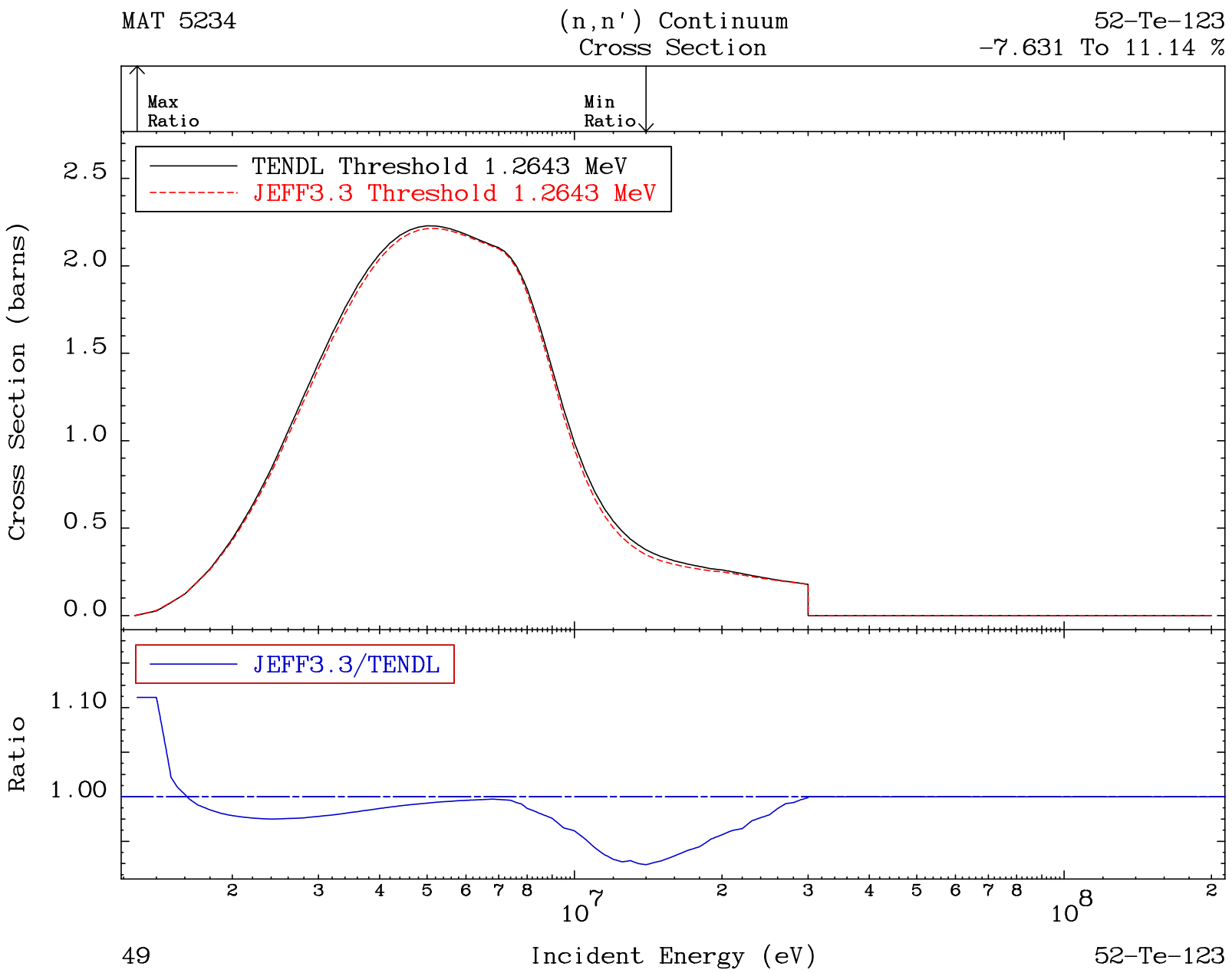

MAT 5234
MT= 75 (n,n') Level
Cross Section
52-Te-123
-8.283 To 6.118 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.1625 MeV
JEFF3.3 Threshold 1.1625 MeV
Cross Section (milli-barns)
16
12
8
4
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
0.95
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
44
Incident Energy (eV)
52-Te-123

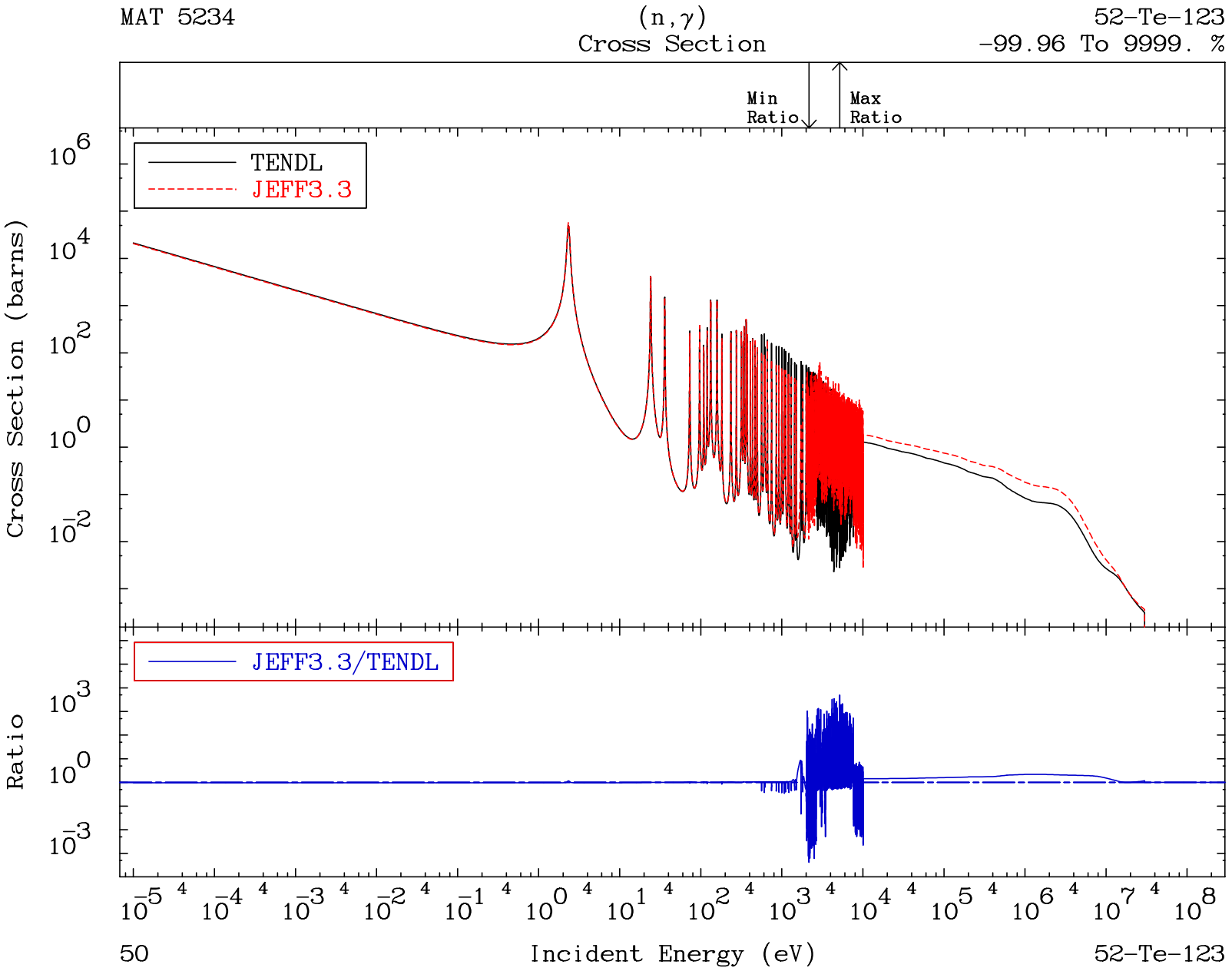

MAT 5234
MT= 76 (n,n') Level
Cross Section
52-Te-123
-5.460 To 6.120 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.2199 MeV
JEFF3.3 Threshold 1.2199 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.05
1.00
0.95
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
45
Incident Energy (eV)
52-Te-123

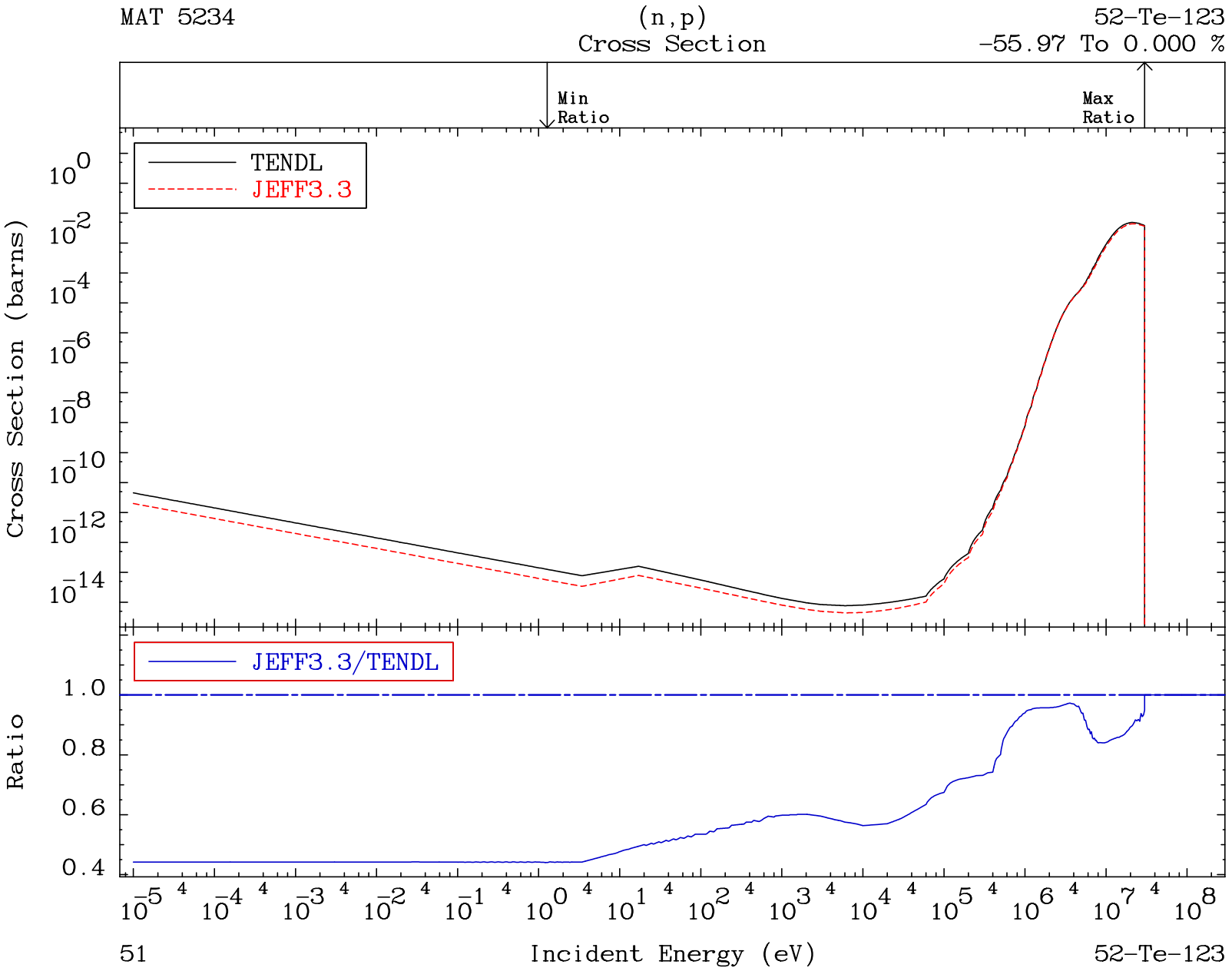

MAT 5234
MT= 77 (n,n') Level
Cross Section
52-Te-123
-7.068 To 6.118 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.2225 MeV
JEFF3.3 Threshold 1.2225 MeV
Cross Section (milli-barns)
18
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
0.95
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
46
Incident Energy (eV)
52-Te-123

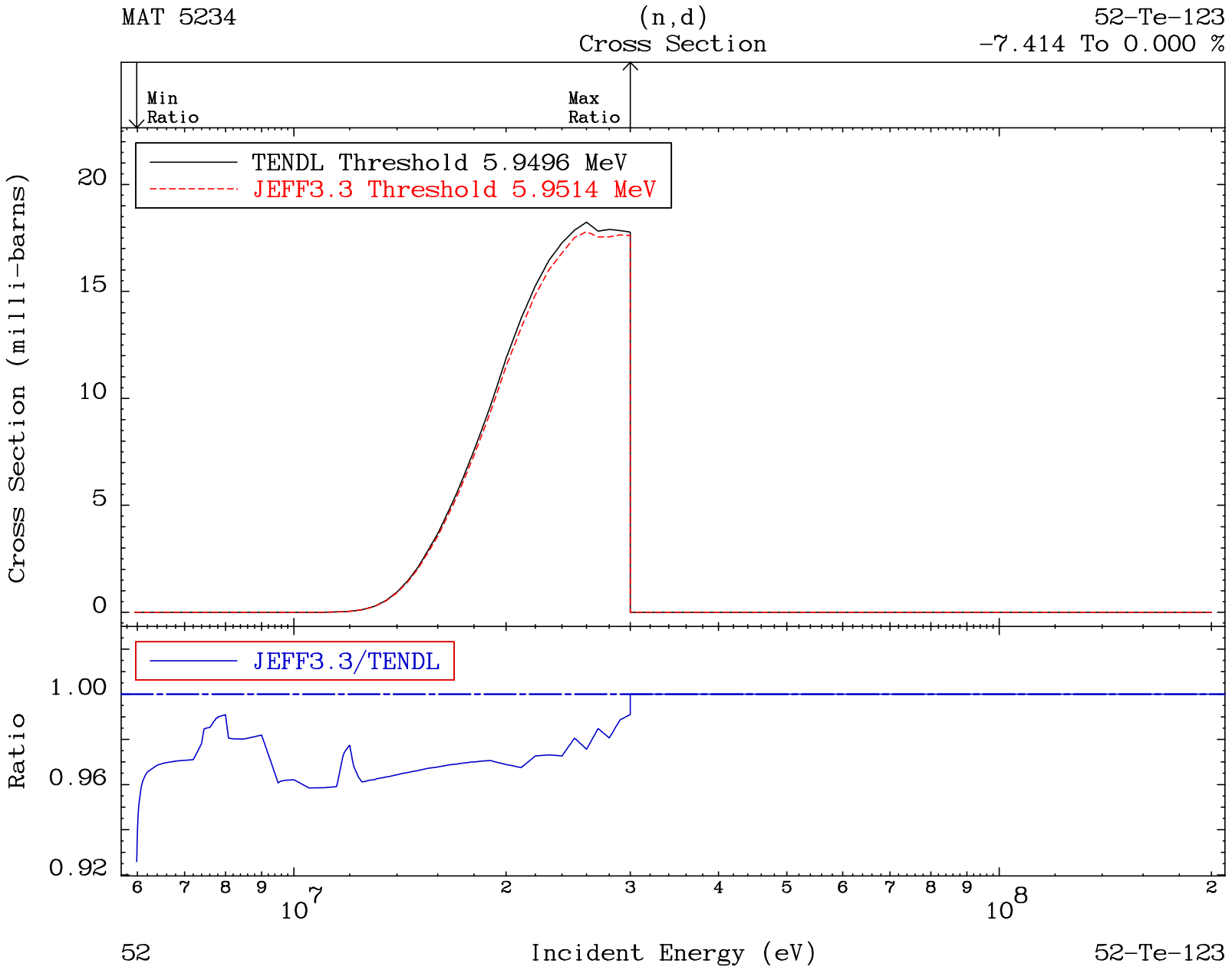

MAT 5234
MT= 78 (n,n') Level
Cross Section
52-Te-123
-7.211 To 6.119 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.2546 MeV
JEFF3.3 Threshold 1.2546 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
0.95
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
47
Incident Energy (eV)
52-Te-123

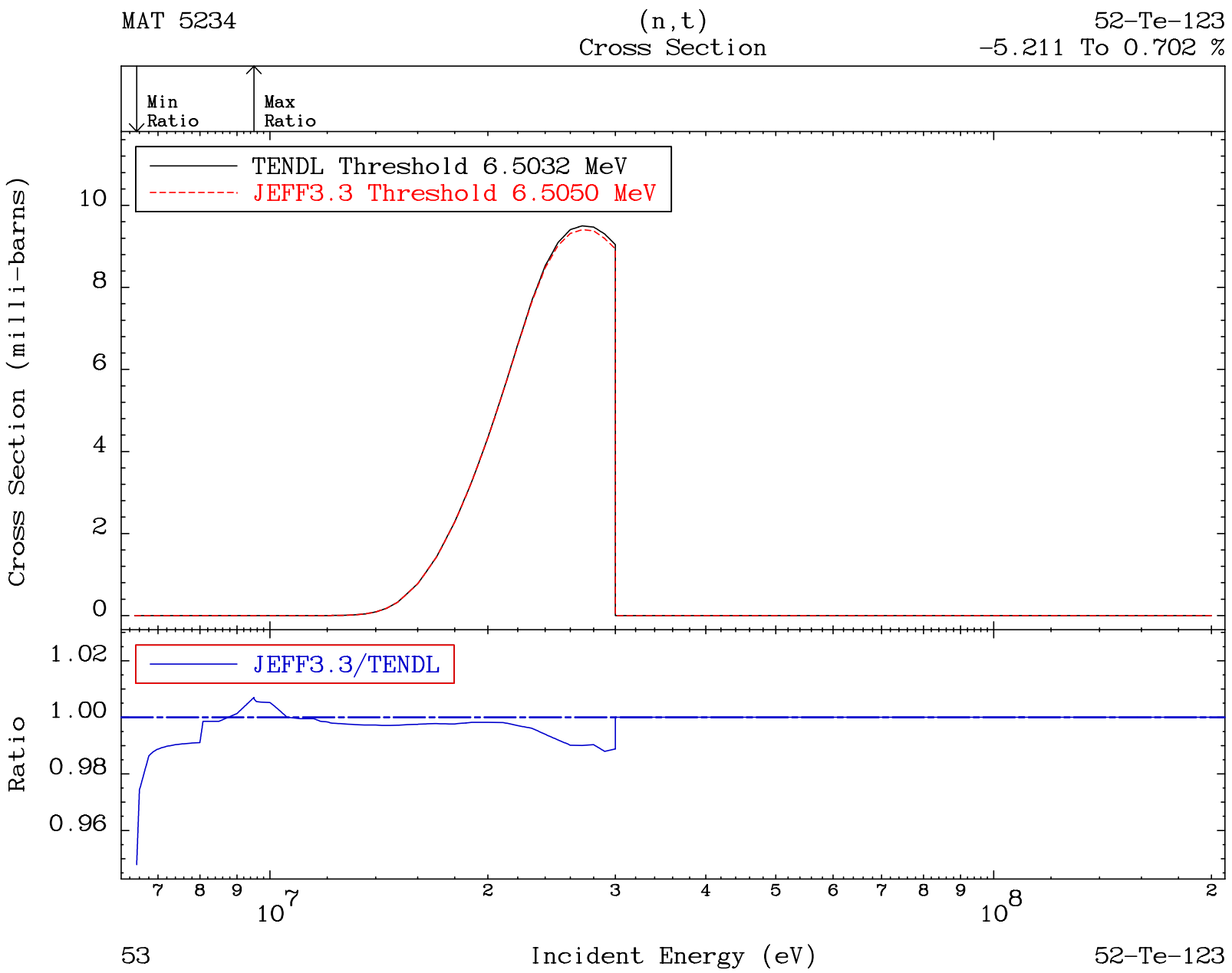

MAT 5234
MT= 79 (n,n') Level
Cross Section
52-Te-123
-4.861 To 6.122 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.2643 MeV
JEFF3.3 Threshold 1.2643 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.05
1.00
0.95
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
48
Incident Energy (eV)
52-Te-123

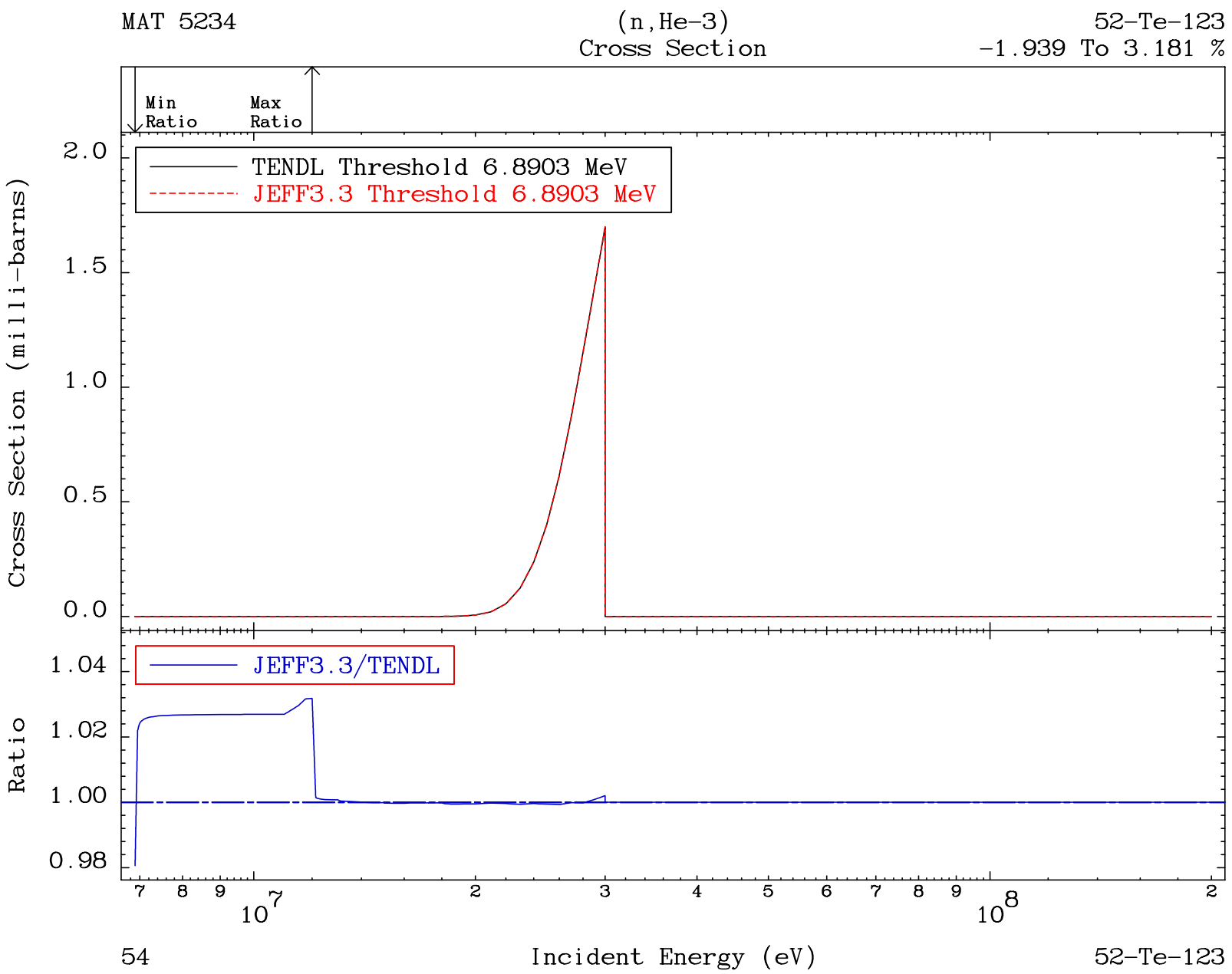

MAT 5234
(n,n') Continuum
Cross Section
52-Te-123
-7.631 To 11.14 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.2643 MeV
JEFF3.3 Threshold 1.2643 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.10
1.00
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
49
Incident Energy (eV)
52-Te-123

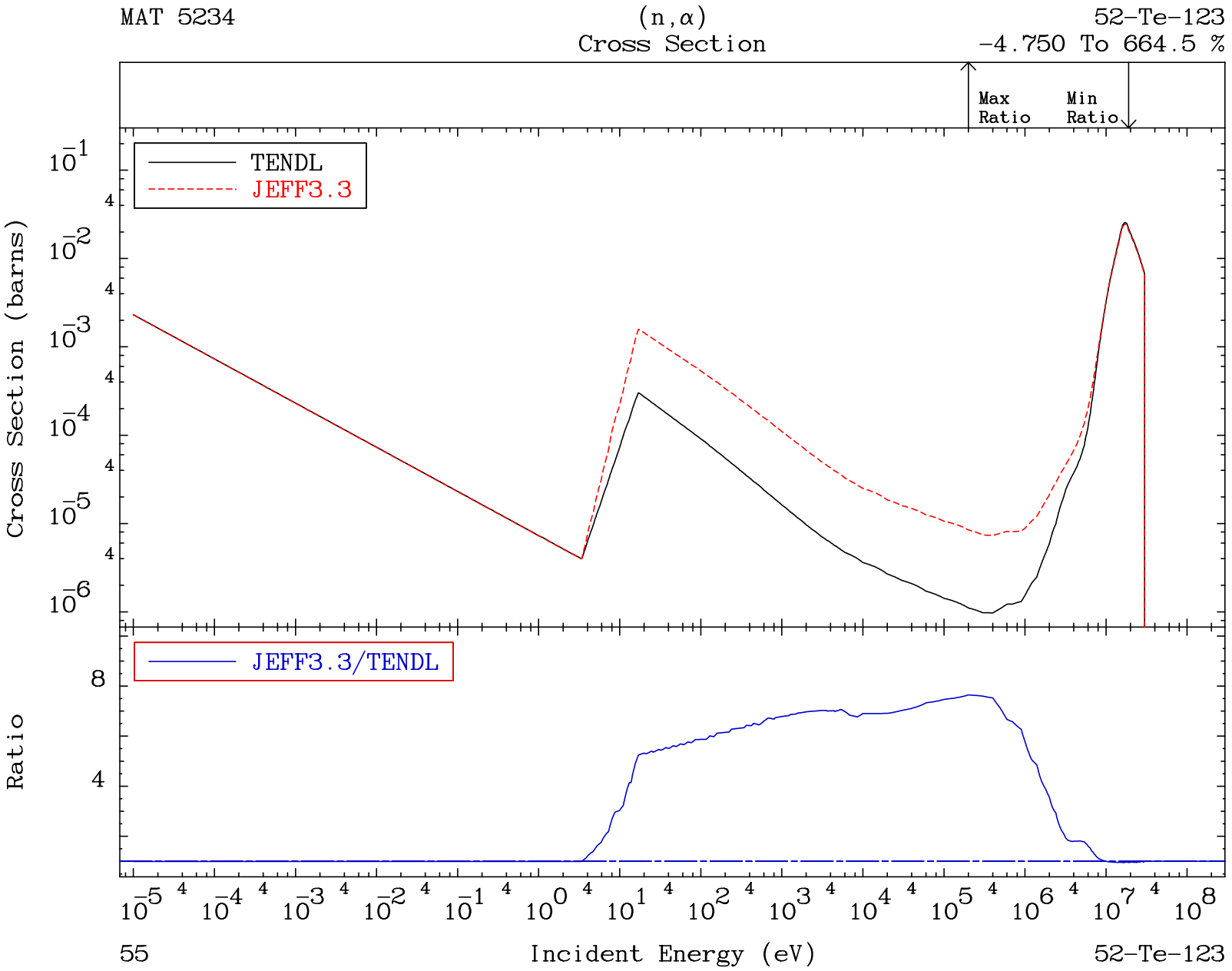

MAT 5234
(n,γ)
Cross Section
52-Te-123
-99.96 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
50
52-Te-123

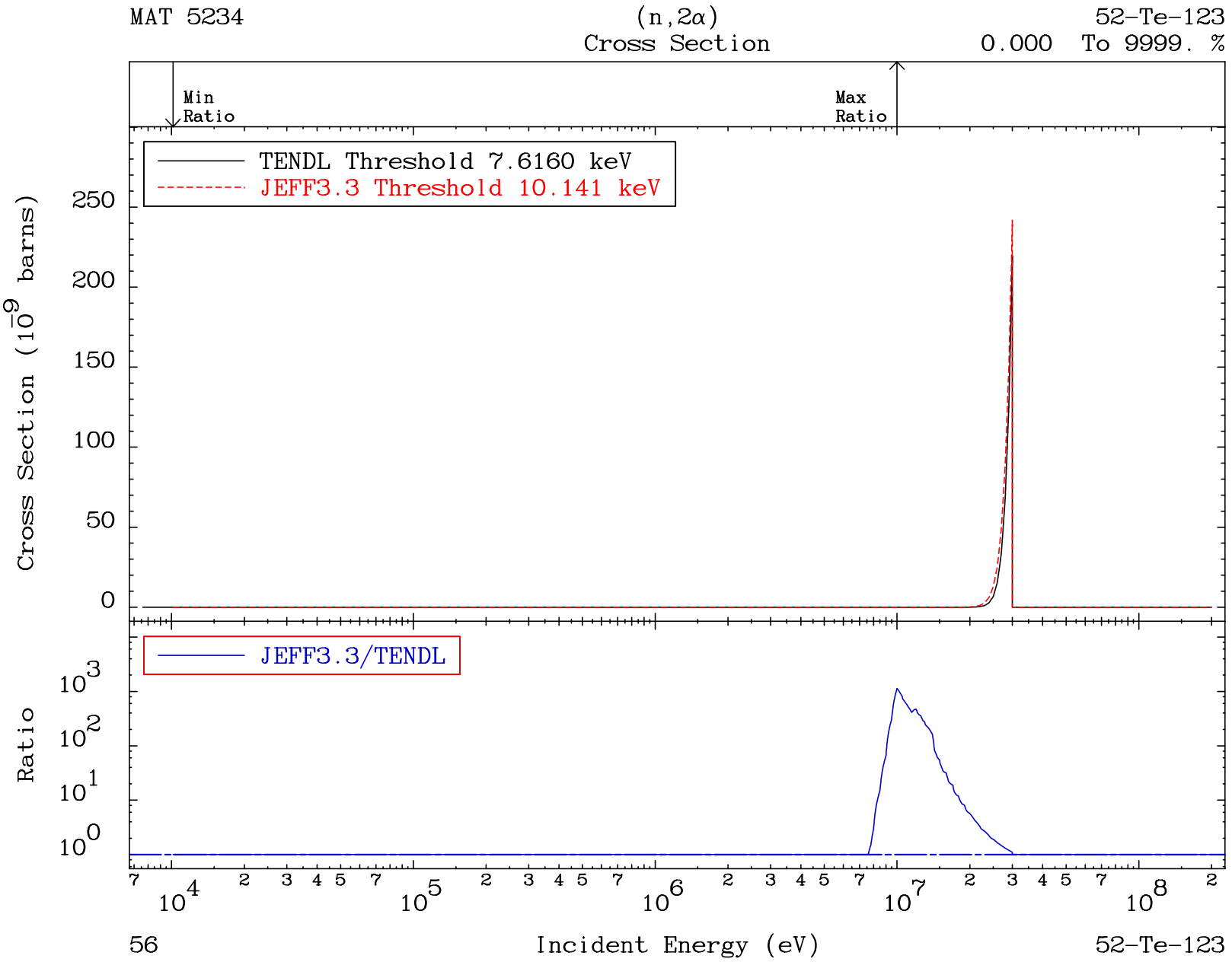

MAT 5234
(n,p)
Cross Section
52-Te-123
-55.97 To 0.000 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
51
52-Te-123

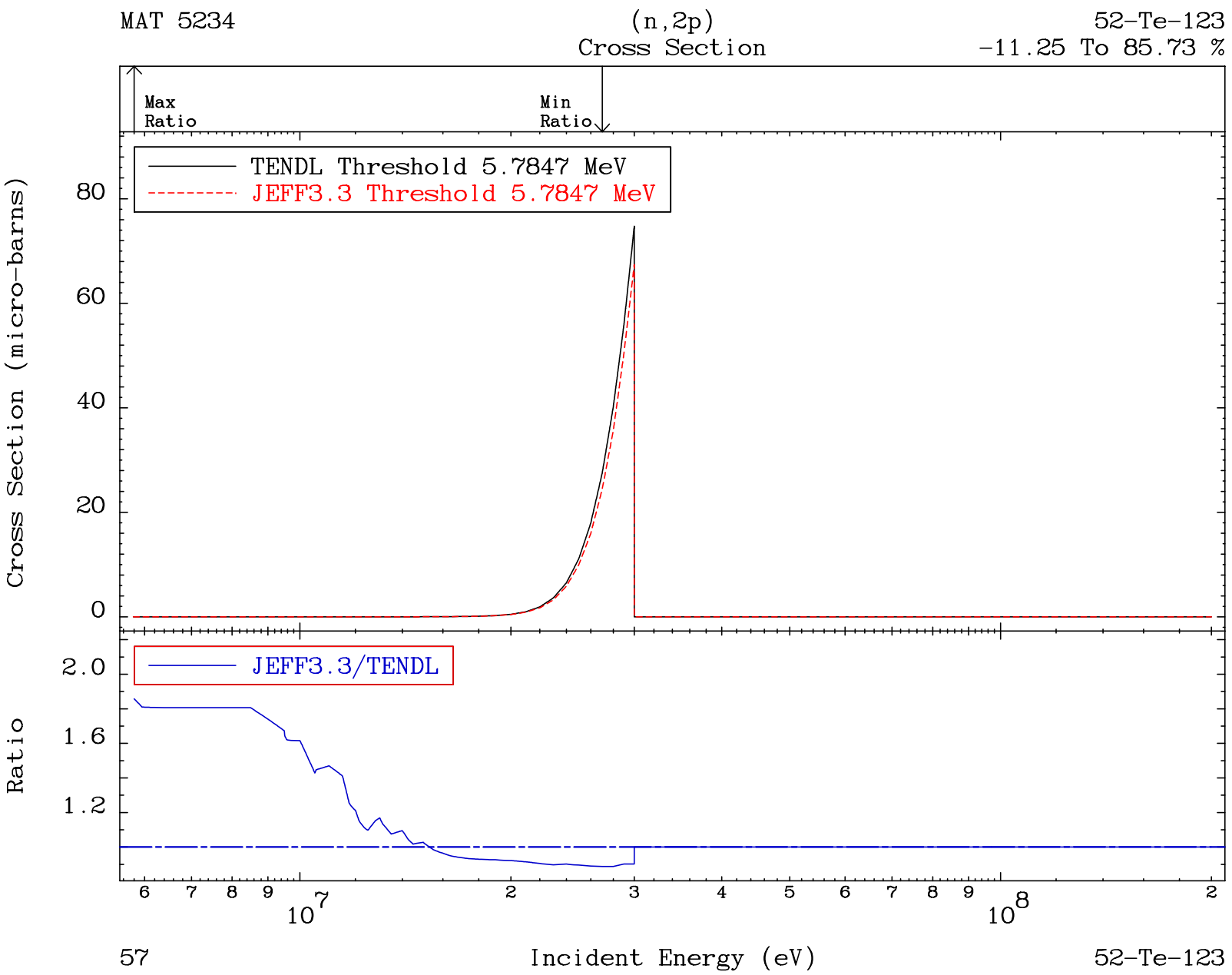

MAT 5234
(n,d)
Cross Section
52-Te-123
-7.414 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 5.9496 MeV
JEFF3.3 Threshold 5.9514 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.00
0.96
0.92
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
52
Incident Energy (eV)
52-Te-123

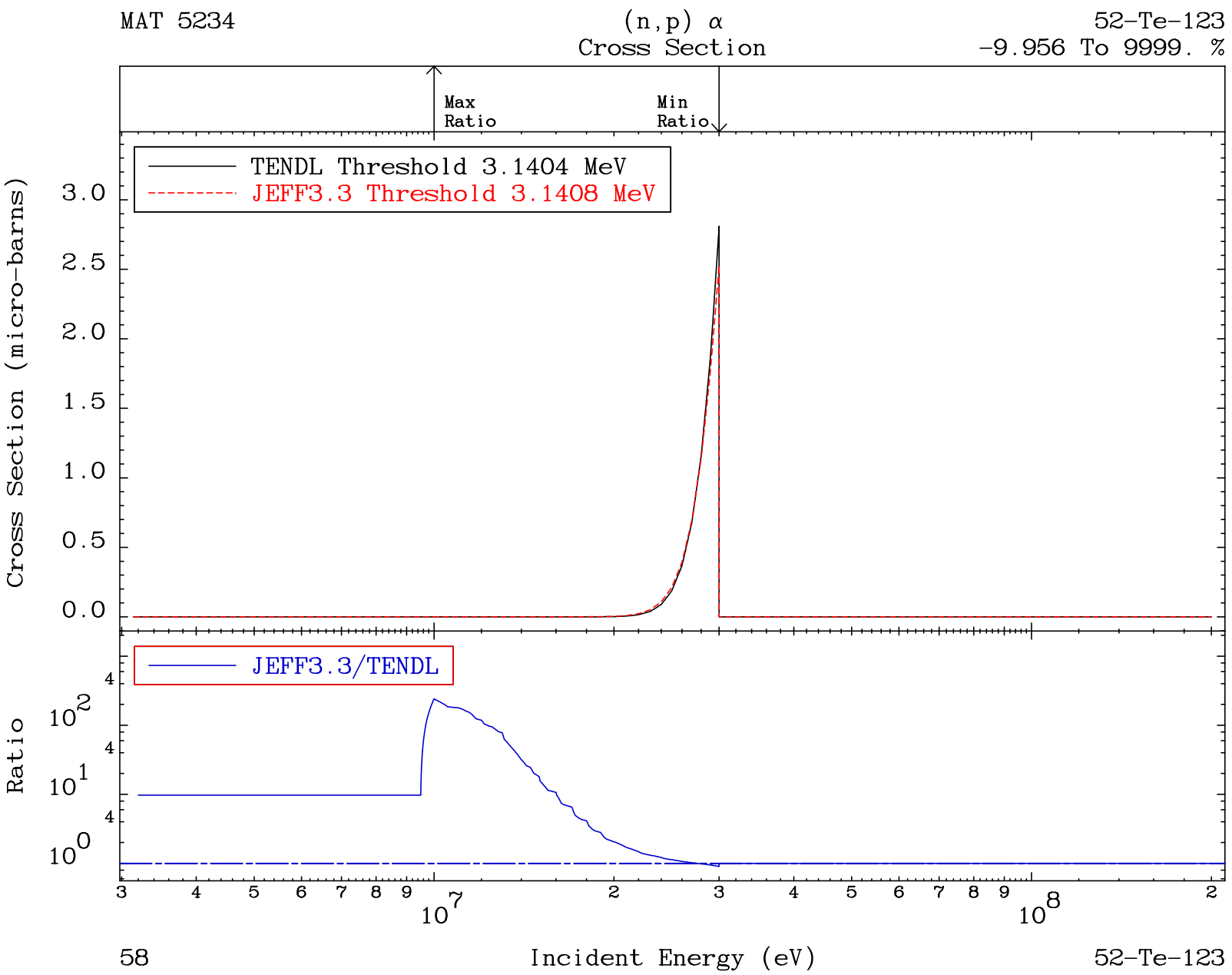

MAT 5234
(n,t)
Cross Section
52-Te-123
-5.211 To 0.702 %
Min Ratio
Max Ratio
TENDL Threshold 6.5032 MeV
JEFF3.3 Threshold 6.5050 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.02
1.00
0.98
0.96
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
53
Incident Energy (eV)
52-Te-123

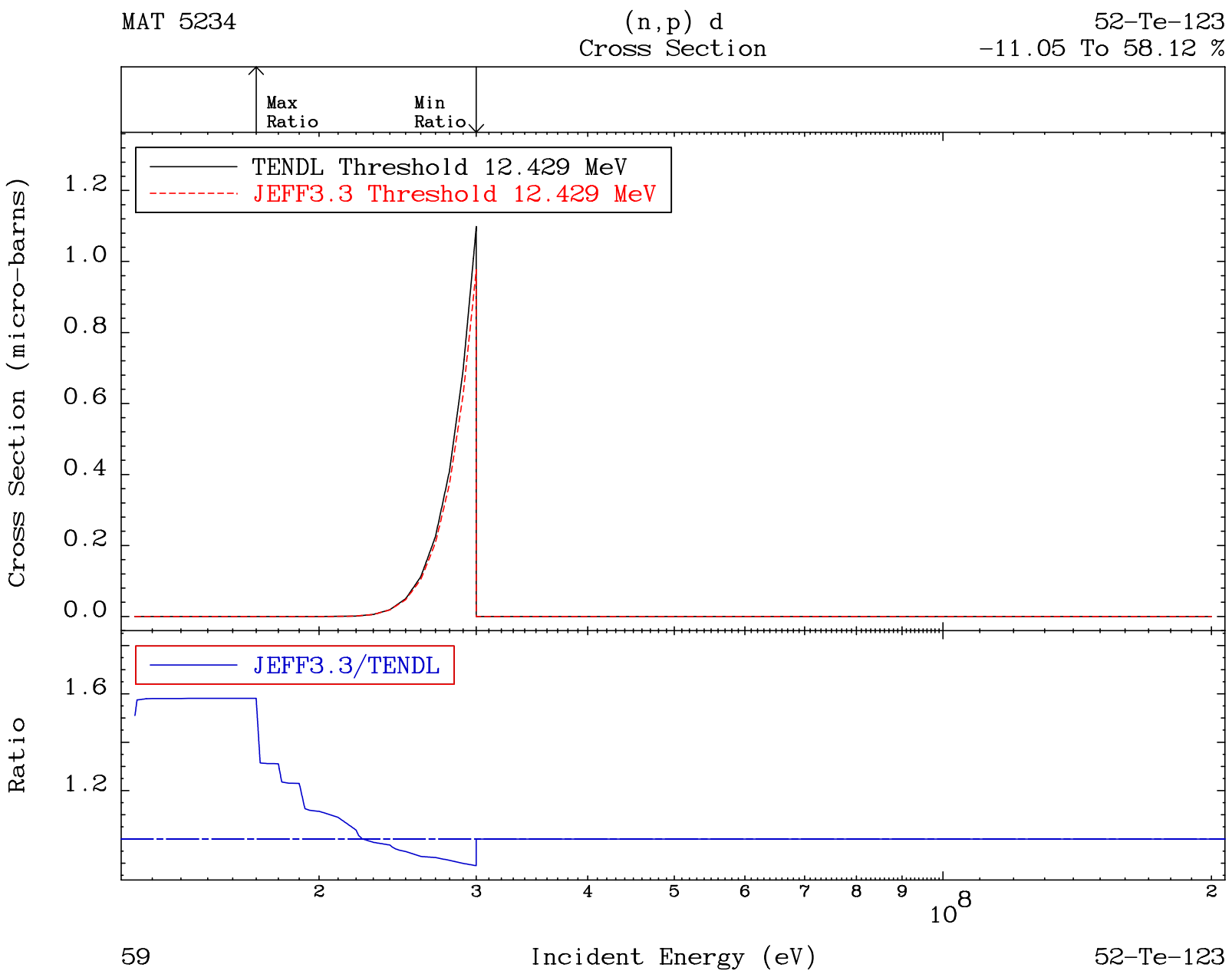

MAT 5234
(n,He-3)
Cross Section
52-Te-123
-1.939 To 3.181 %
Min Ratio
Max Ratio
TENDL Threshold 6.8903 MeV
JEFF3.3 Threshold 6.8903 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.04
1.02
1.00
0.98
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
54
Incident Energy (eV)
52-Te-123

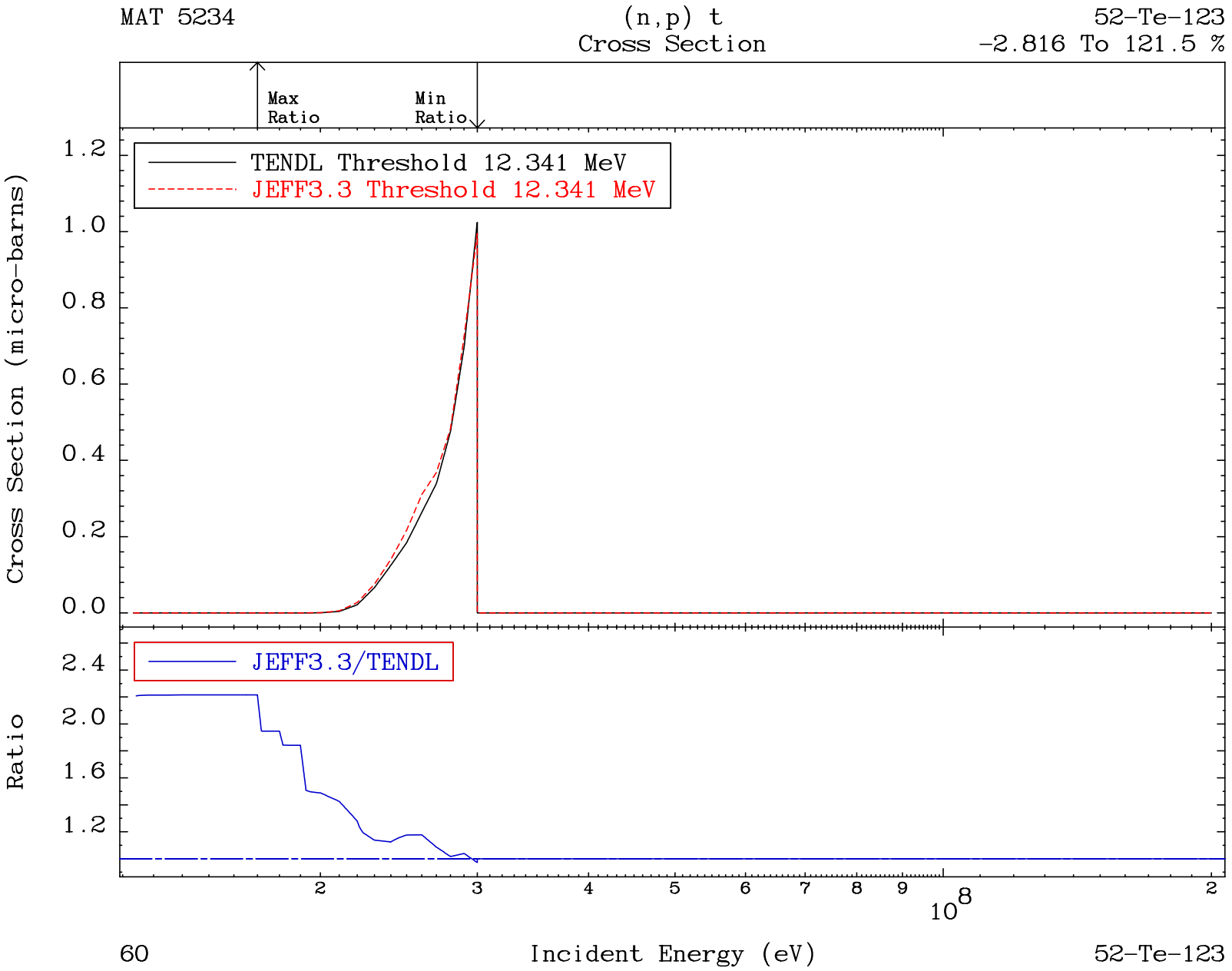

MAT 5234
(n,α)
Cross Section
52-Te-123
-4.750 To 664.5 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
55
52-Te-123

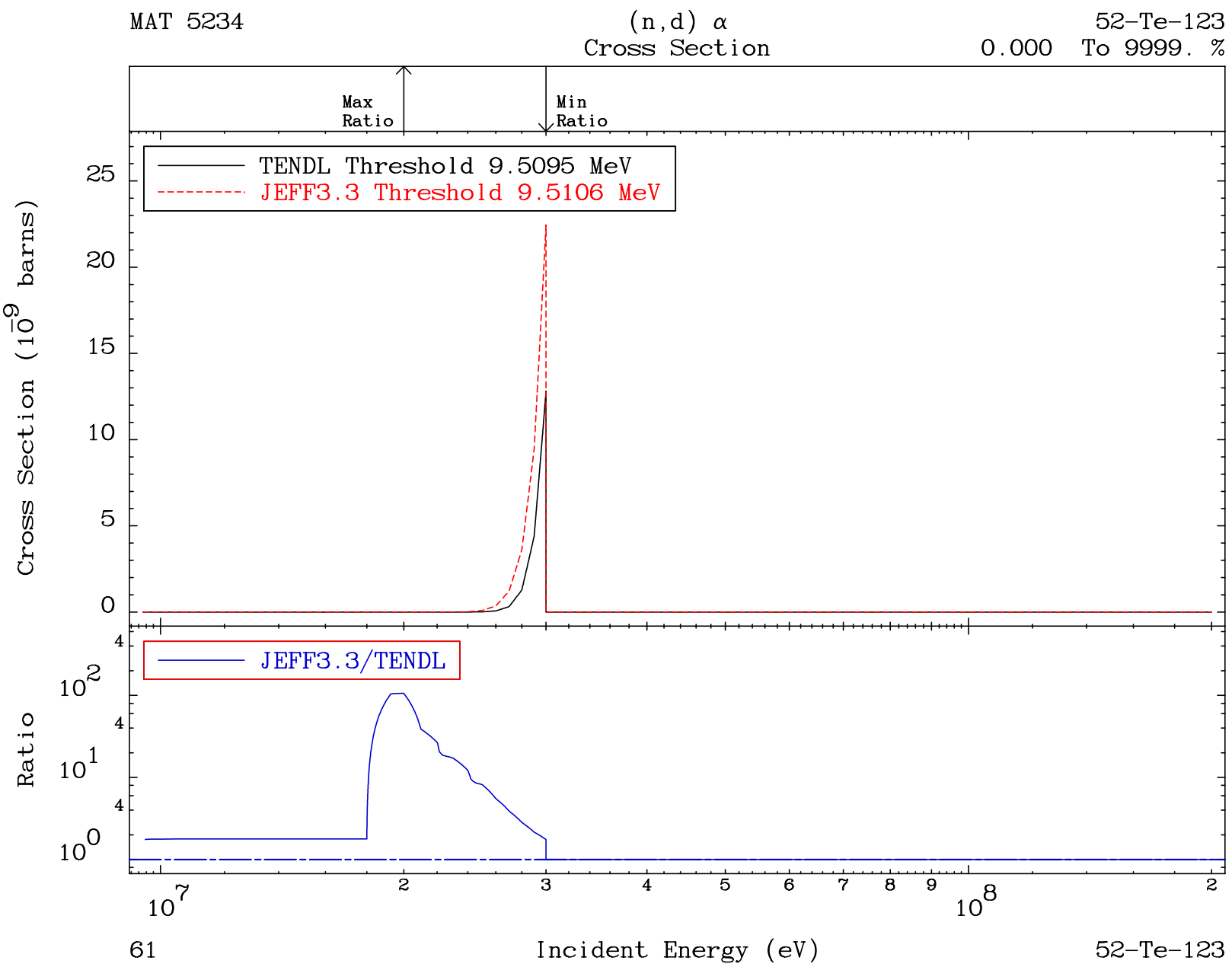

MAT 5234
(n,2α)
Cross Section
52-Te-123
0.000 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.6160 keV
JEFF3.3 Threshold 10.141 keV
Cross Section (10^{-9} barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
10^4
10^5
10^6
10^7
10^8
56
Incident Energy (eV)
52-Te-123

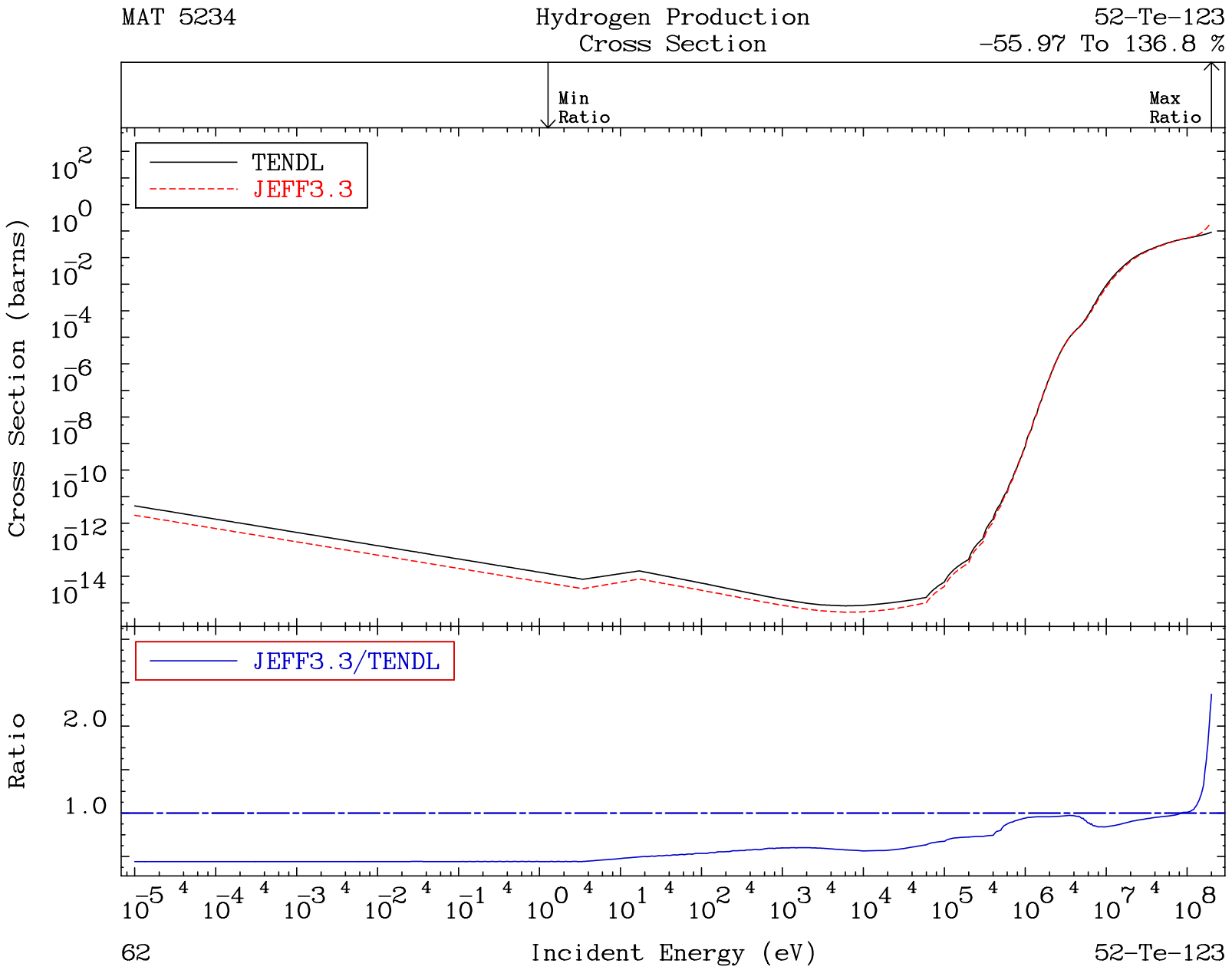

MAT 5234
(n,2p)
Cross Section
52-Te-123
-11.25 To 85.73 %
Max Ratio
Min Ratio
TENDL Threshold 5.7847 MeV
JEFF3.3 Threshold 5.7847 MeV
Cross Section (micro-barns)
0
20
40
60
80
JEFF3.3/TENDL
Ratio
1.2
1.6
2.0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
57
Incident Energy (eV)
52-Te-123

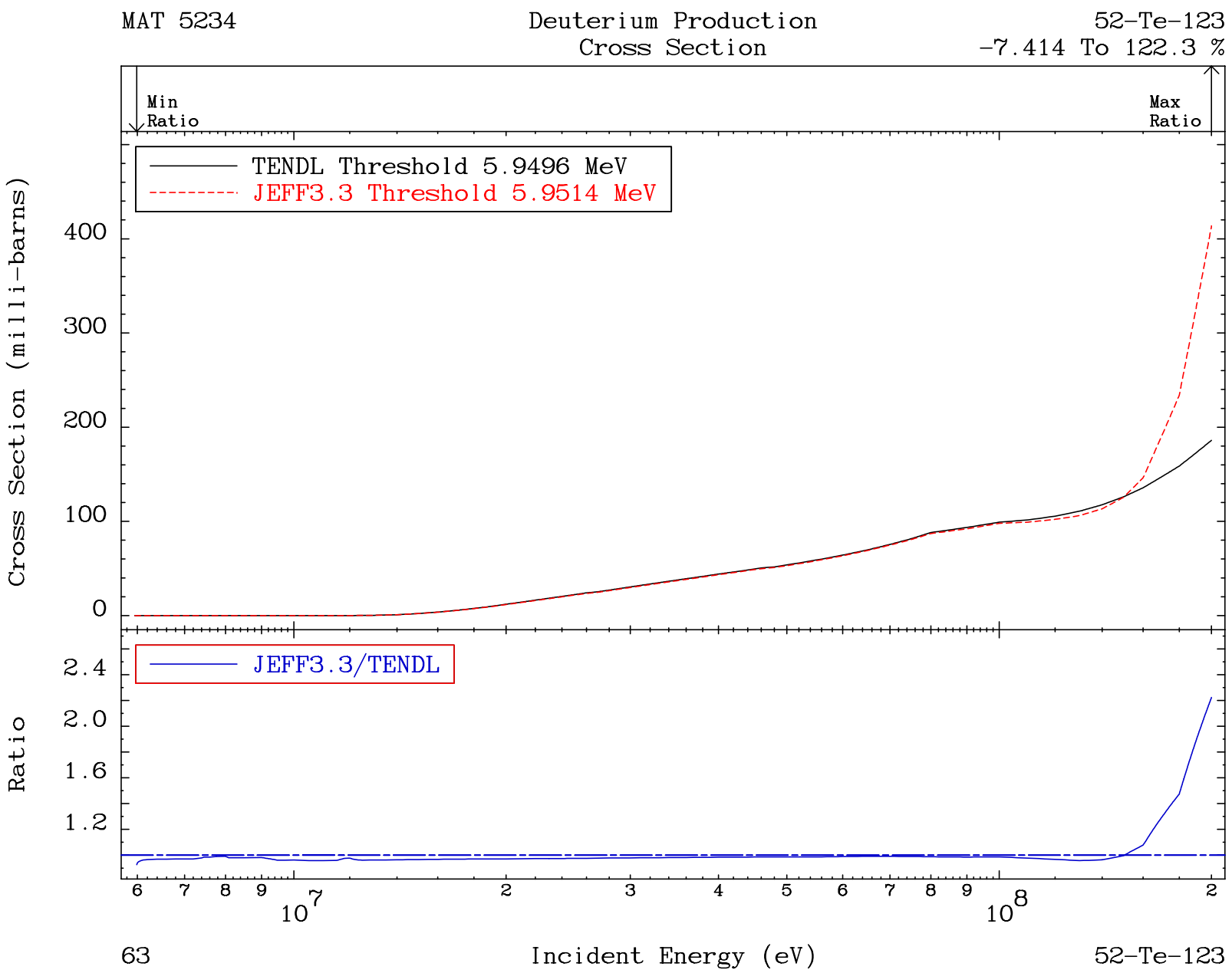

MAT 5234
(n,p) α
Cross Section
52-Te-123
-9.956 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.1404 MeV
JEFF3.3 Threshold 3.1408 MeV
Cross Section (micro-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^2
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
58
Incident Energy (eV)
52-Te-123

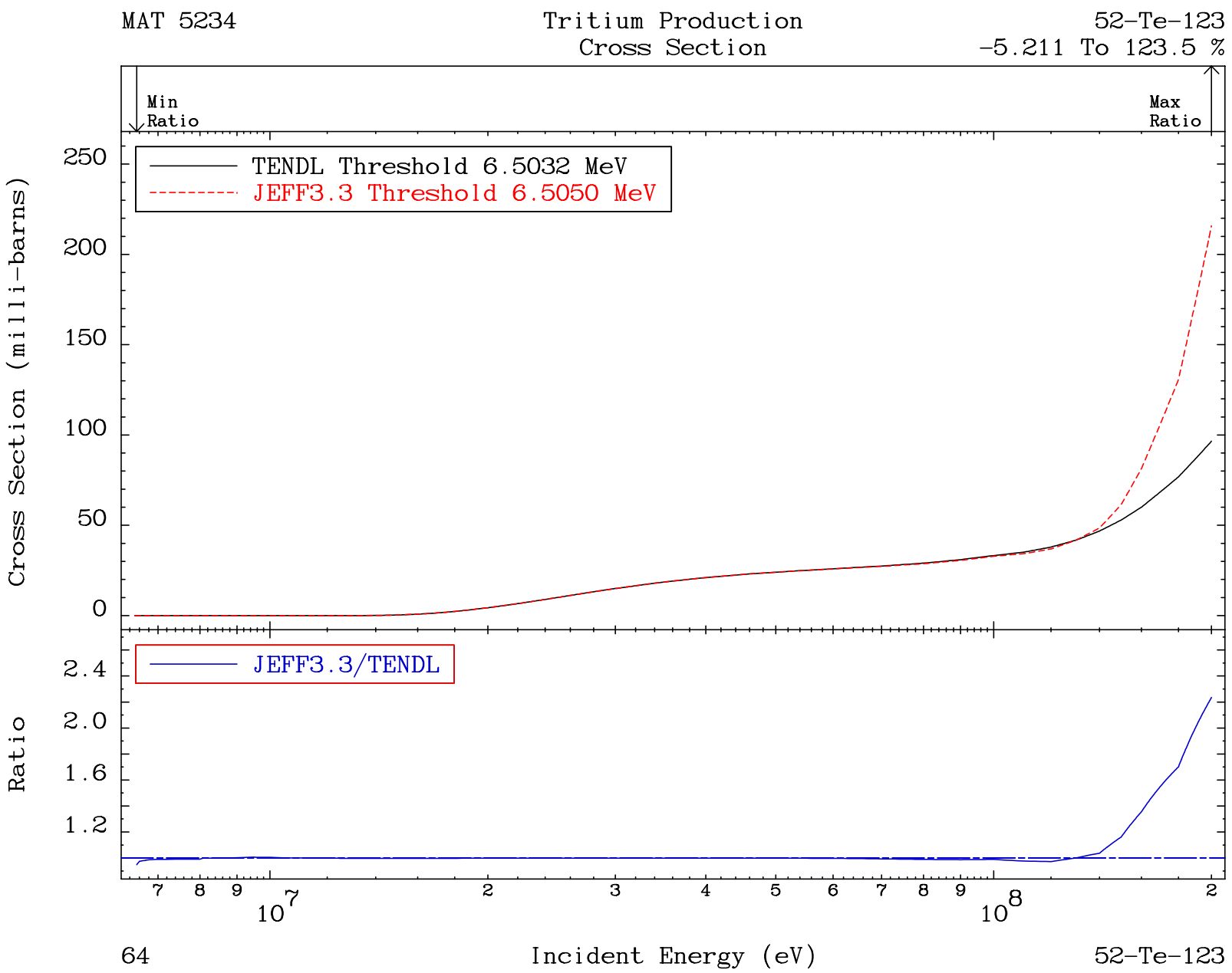

MAT 5234
(n,p) d
Cross Section
52-Te-123
-11.05 To 58.12 %
Max Ratio
Min Ratio
TENDL Threshold 12.429 MeV
JEFF3.3 Threshold 12.429 MeV
Cross Section (micro-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.6
1.2
2
3
4
5
6
7
8
9
10^8
2
59
Incident Energy (eV)
52-Te-123

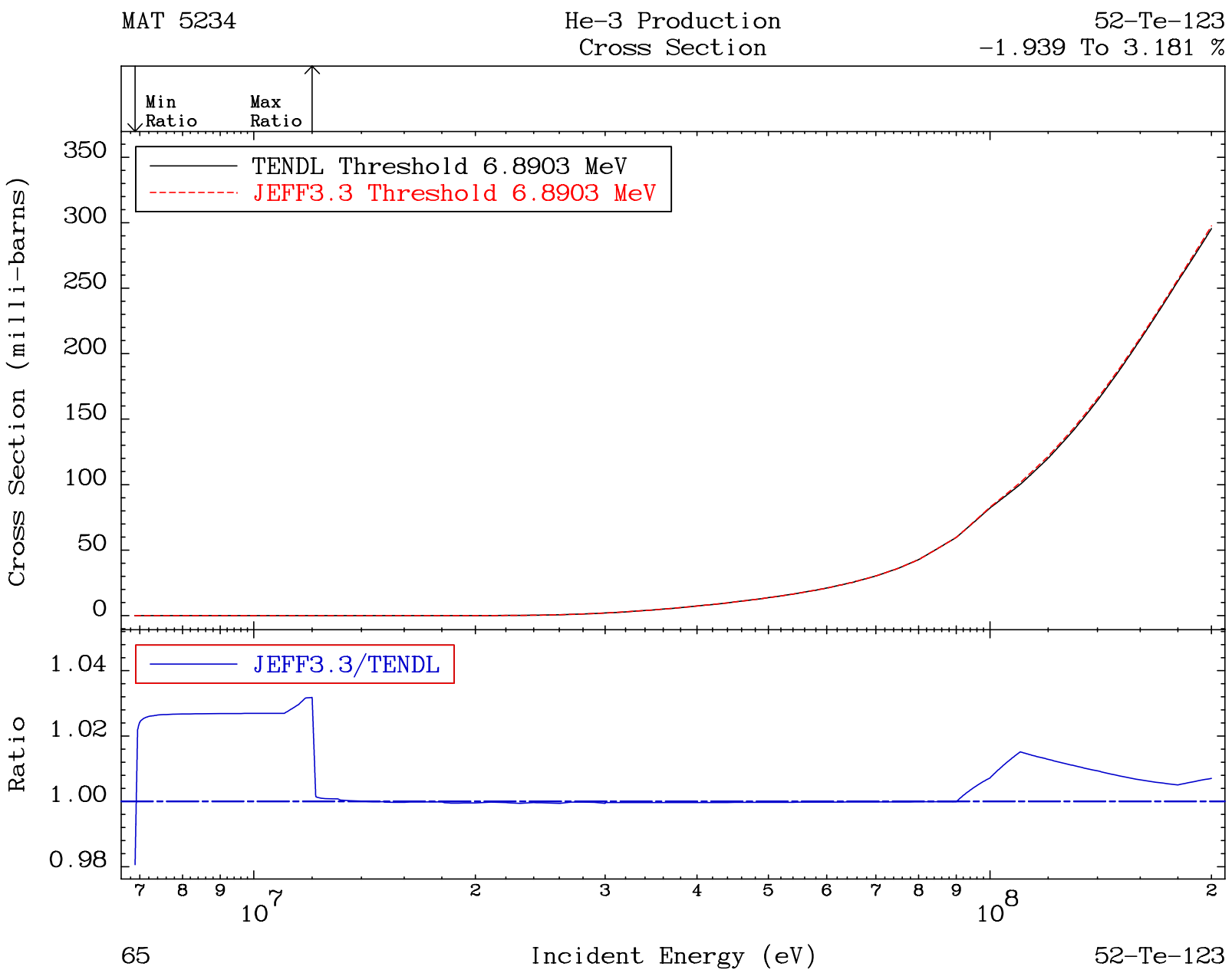

MAT 5234
(n,p) t
Cross Section
52-Te-123
-2.816 To 121.5 %
Max Ratio
Min Ratio
TENDL Threshold 12.341 MeV
JEFF3.3 Threshold 12.341 MeV
Cross Section (micro-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
2.4
2.0
1.6
1.2
2
3
4
5
6
7
8
9
10^8
2
60
Incident Energy (eV)
52-Te-123

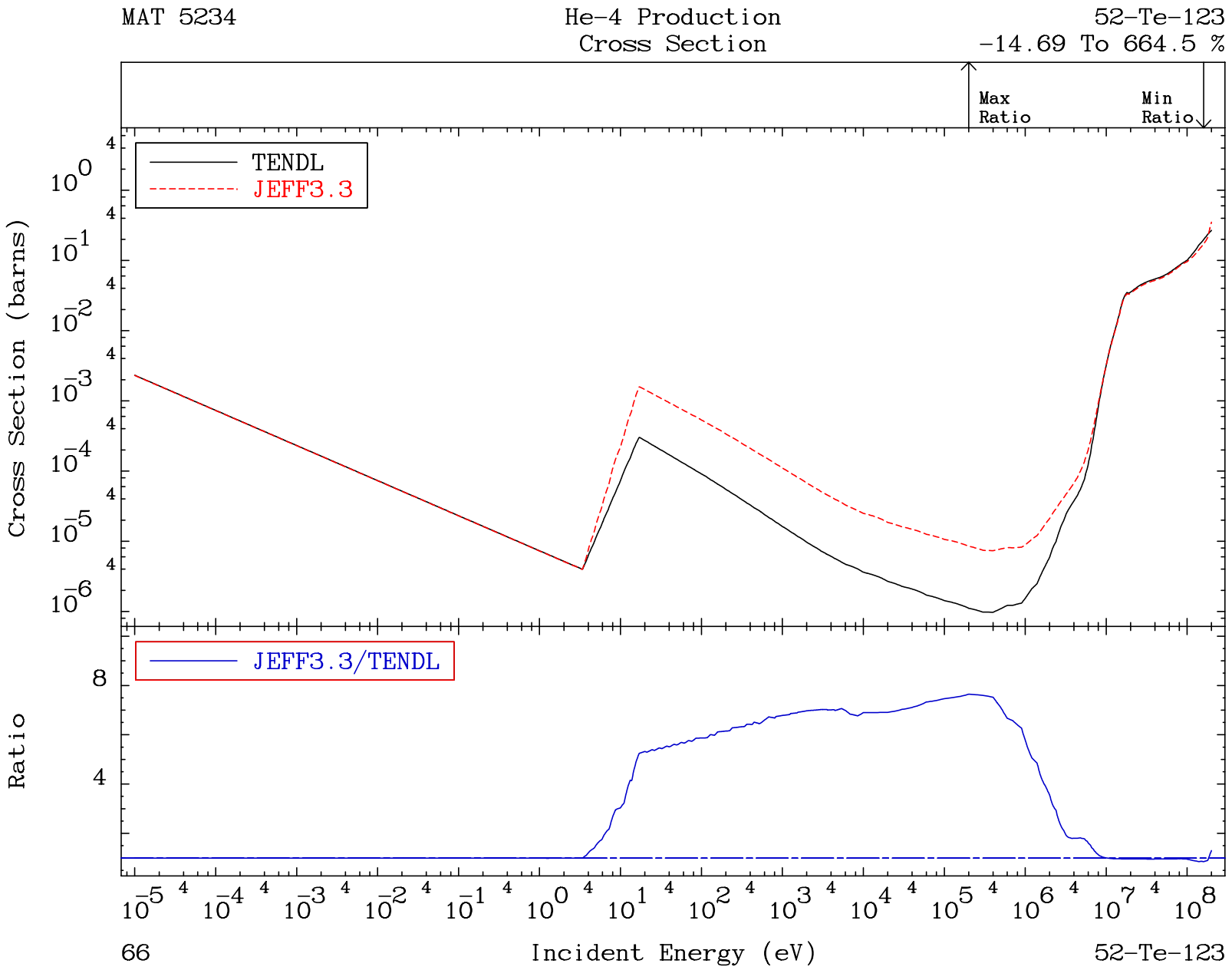

MAT 5234
(n,d) α
Cross Section
52-Te-123
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 9.5095 MeV
JEFF3.3 Threshold 9.5106 MeV
Cross Section (10^{-9} barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^{2}
10^{1}
10^{0}
4
10^{7}
2
3
4
5
6
7
8
9
10^{8}
2
61
Incident Energy (eV)
52-Te-123

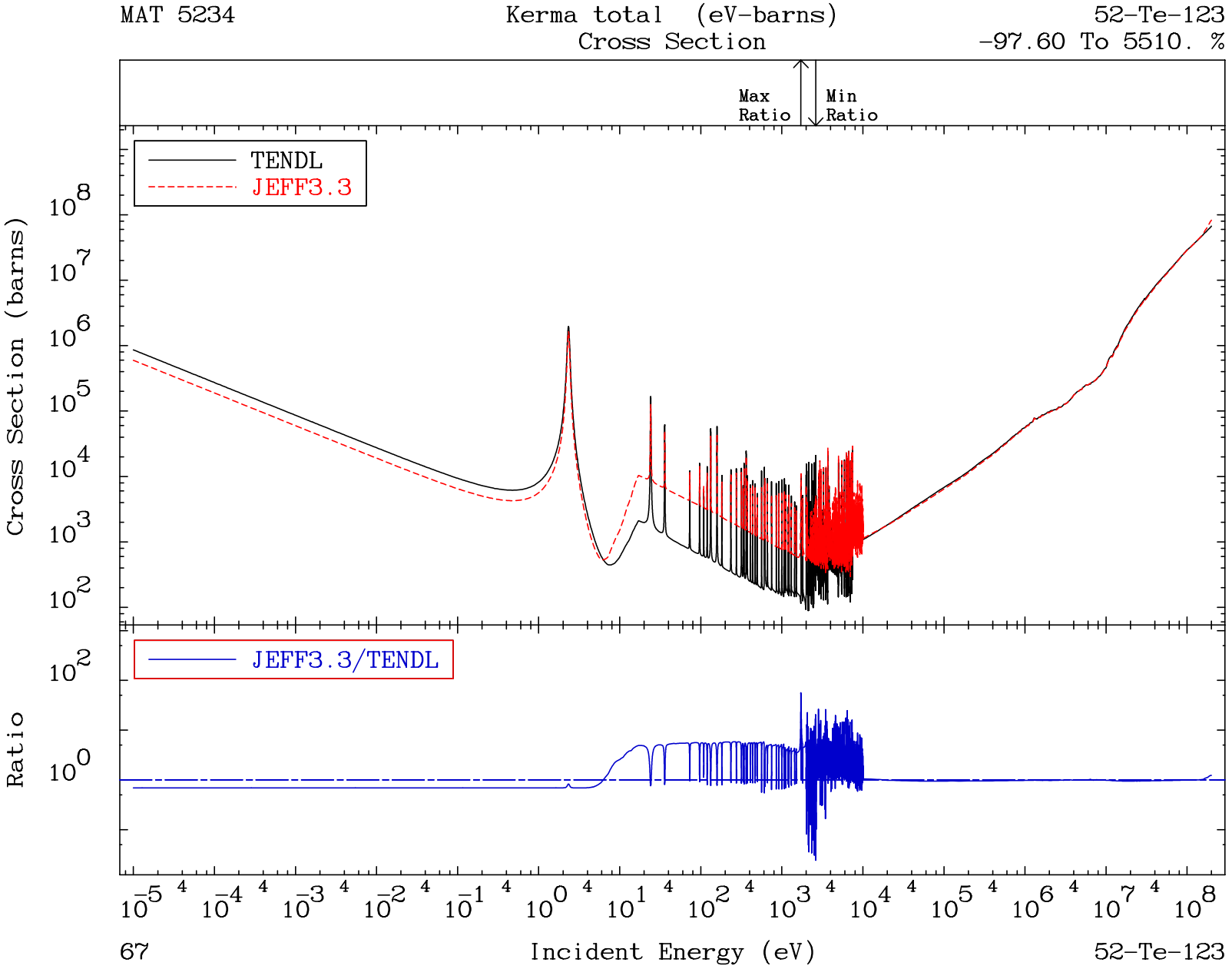

MAT 5234
Hydrogen Production
Cross Section
52-Te-123
-55.97 To 136.8 %
Min
Ratio
Max
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
62
52-Te-123

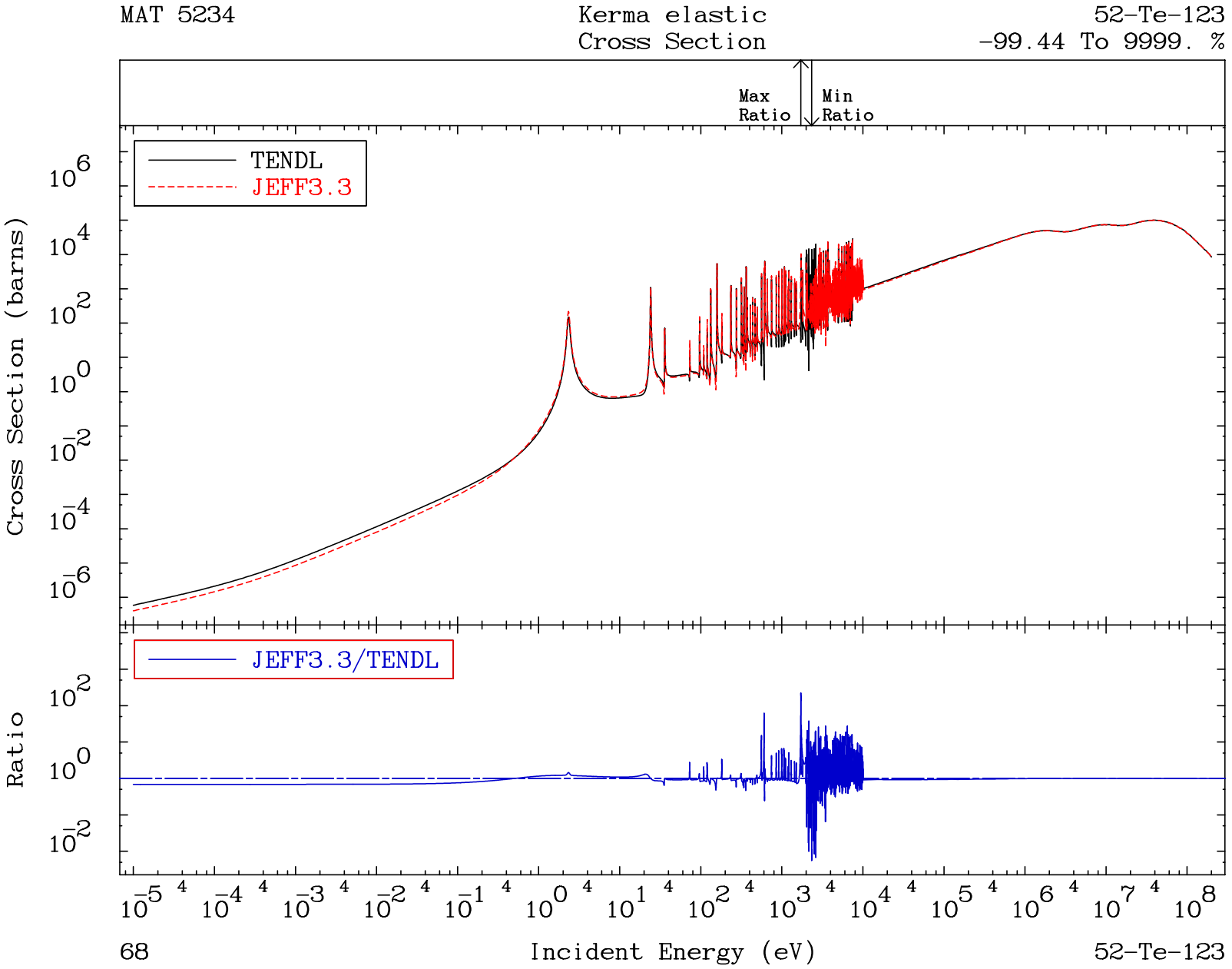

MAT 5234
Deuterium Production
Cross Section
52-Te-123
-7.414 To 122.3 %
Min
Ratio
Max
Ratio
TENDL Threshold 5.9496 MeV
JEFF3.3 Threshold 5.9514 MeV
Cross Section (milli-barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
2.4
2.0
1.6
1.2
6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
63
Incident Energy (eV)
52-Te-123

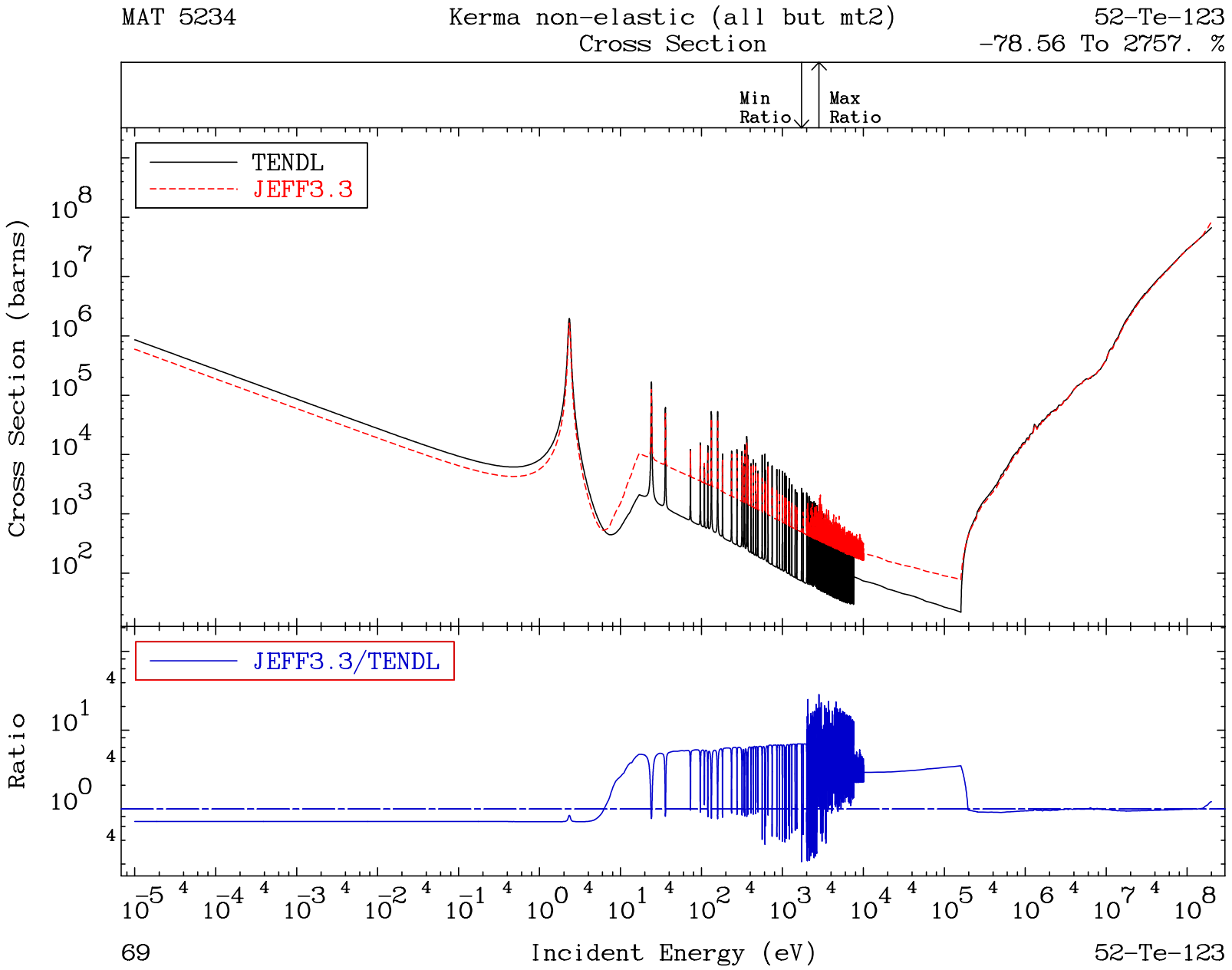

MAT 5234
Tritium Production
Cross Section
52-Te-123
-5.211 To 123.5 %
Min Ratio
Max Ratio
TENDL Threshold 6.5032 MeV
JEFF3.3 Threshold 6.5050 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
2.4
2.0
1.6
1.2
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
64
Incident Energy (eV)
52-Te-123

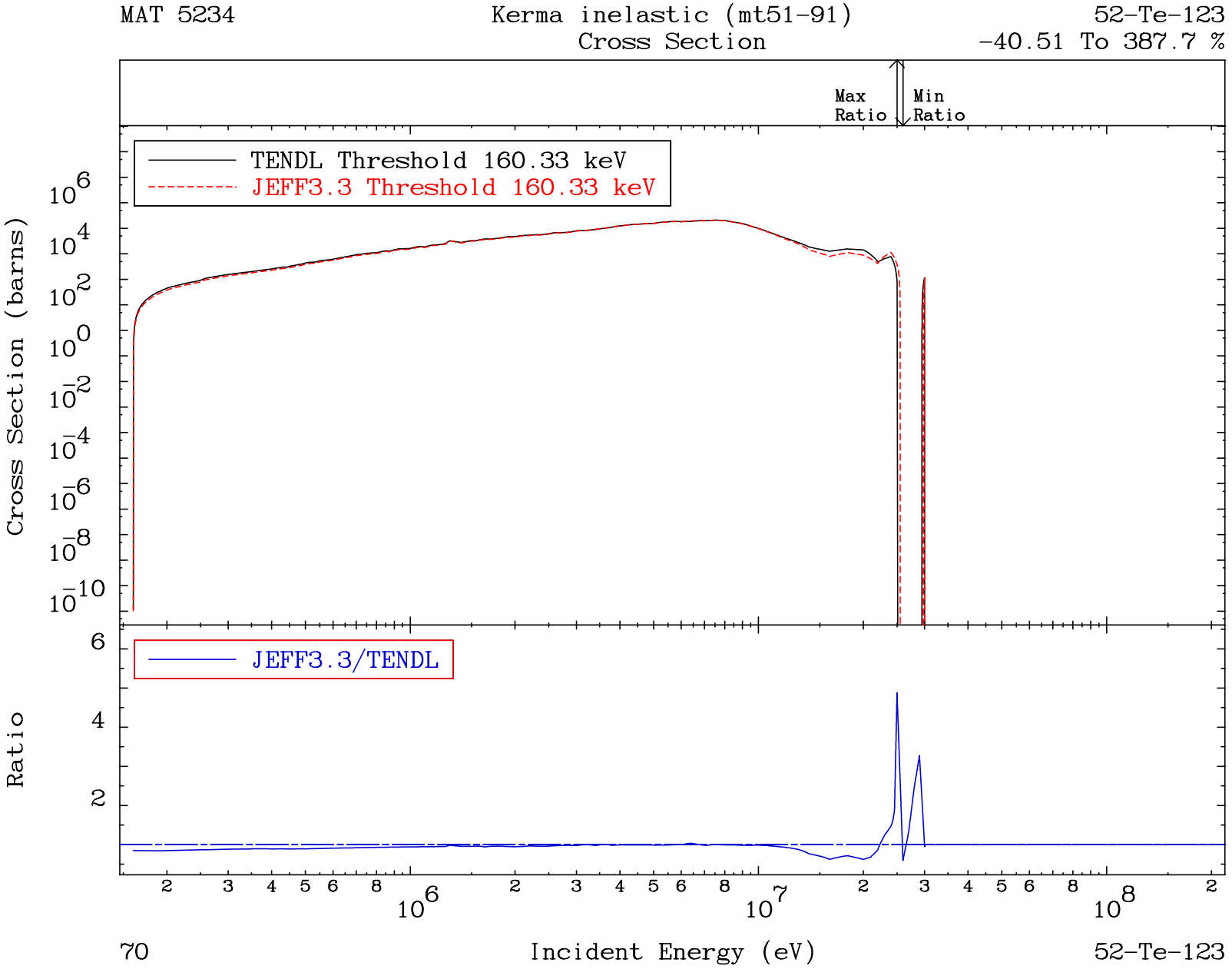

MAT 5234
He-3 Production
Cross Section
52-Te-123
-1.939 To 3.181 %
Min Ratio
Max Ratio
TENDL Threshold 6.8903 MeV
JEFF3.3 Threshold 6.8903 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.04
1.02
1.00
0.98
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
65
Incident Energy (eV)
52-Te-123

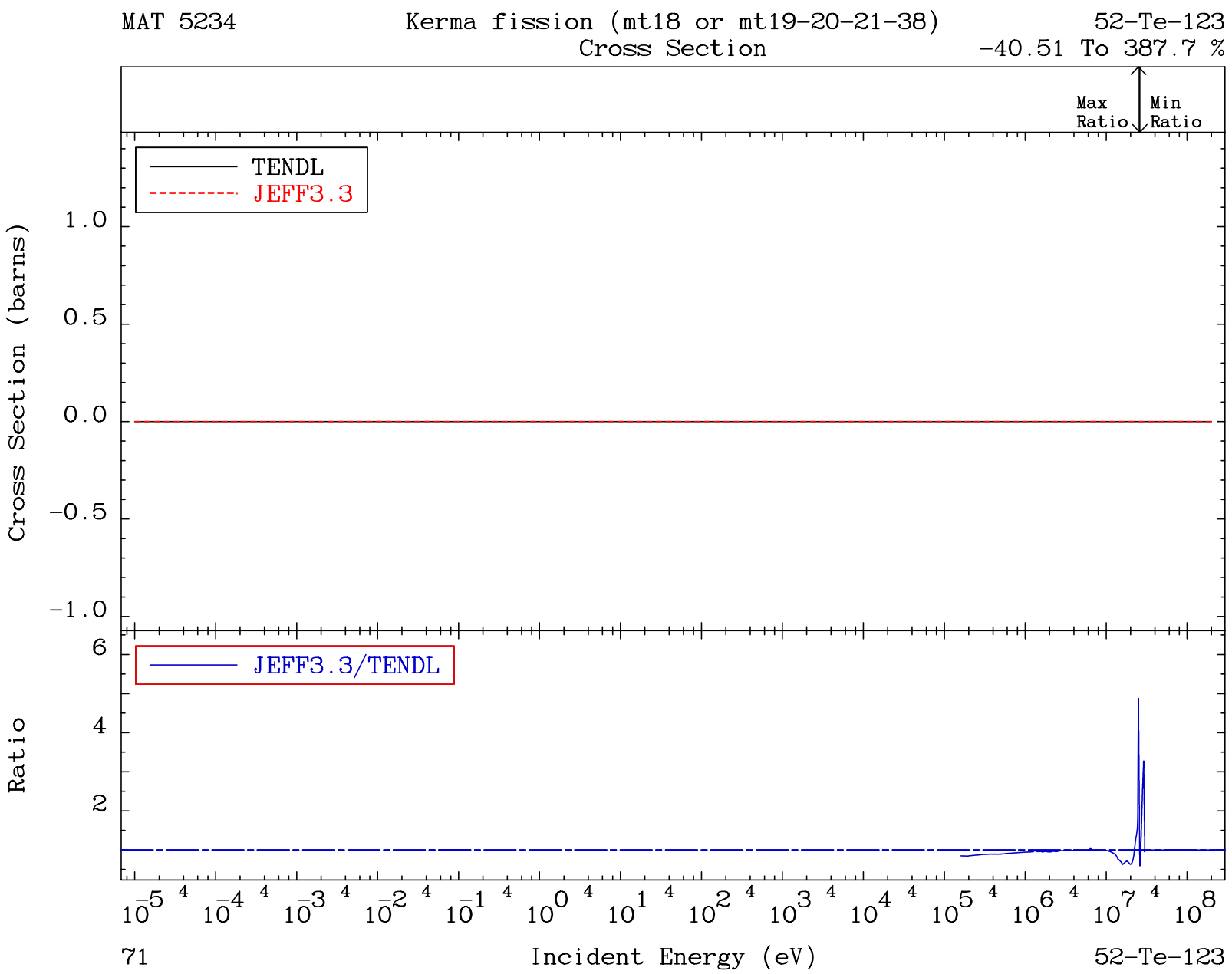

MAT 5234
He-4 Production
Cross Section
52-Te-123
-14.69 To 664.5 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
66
52-Te-123

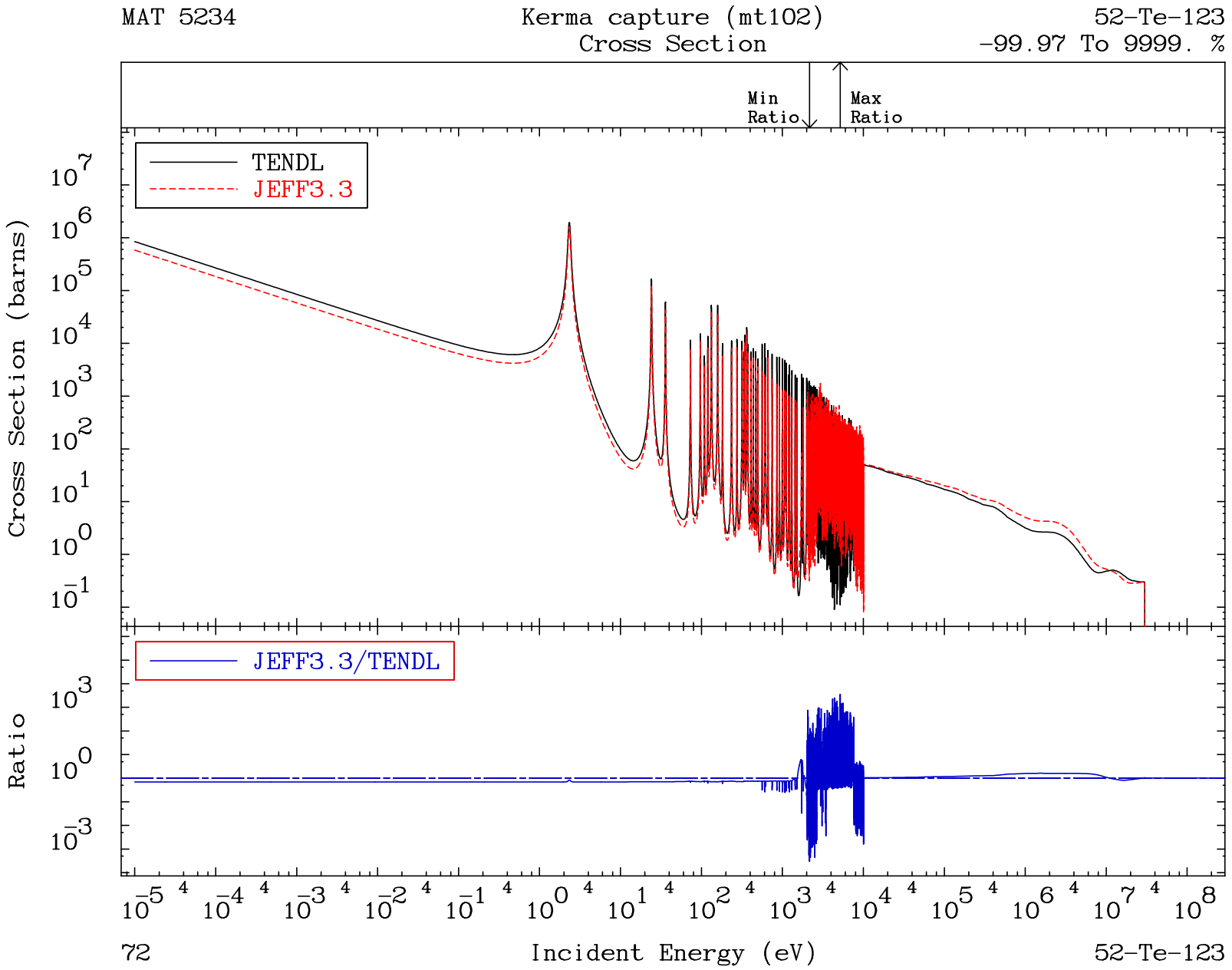

MAT 5234
Kerma total (eV-barns)
Cross Section
52-Te-123
-97.60 To 5510. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
67
52-Te-123

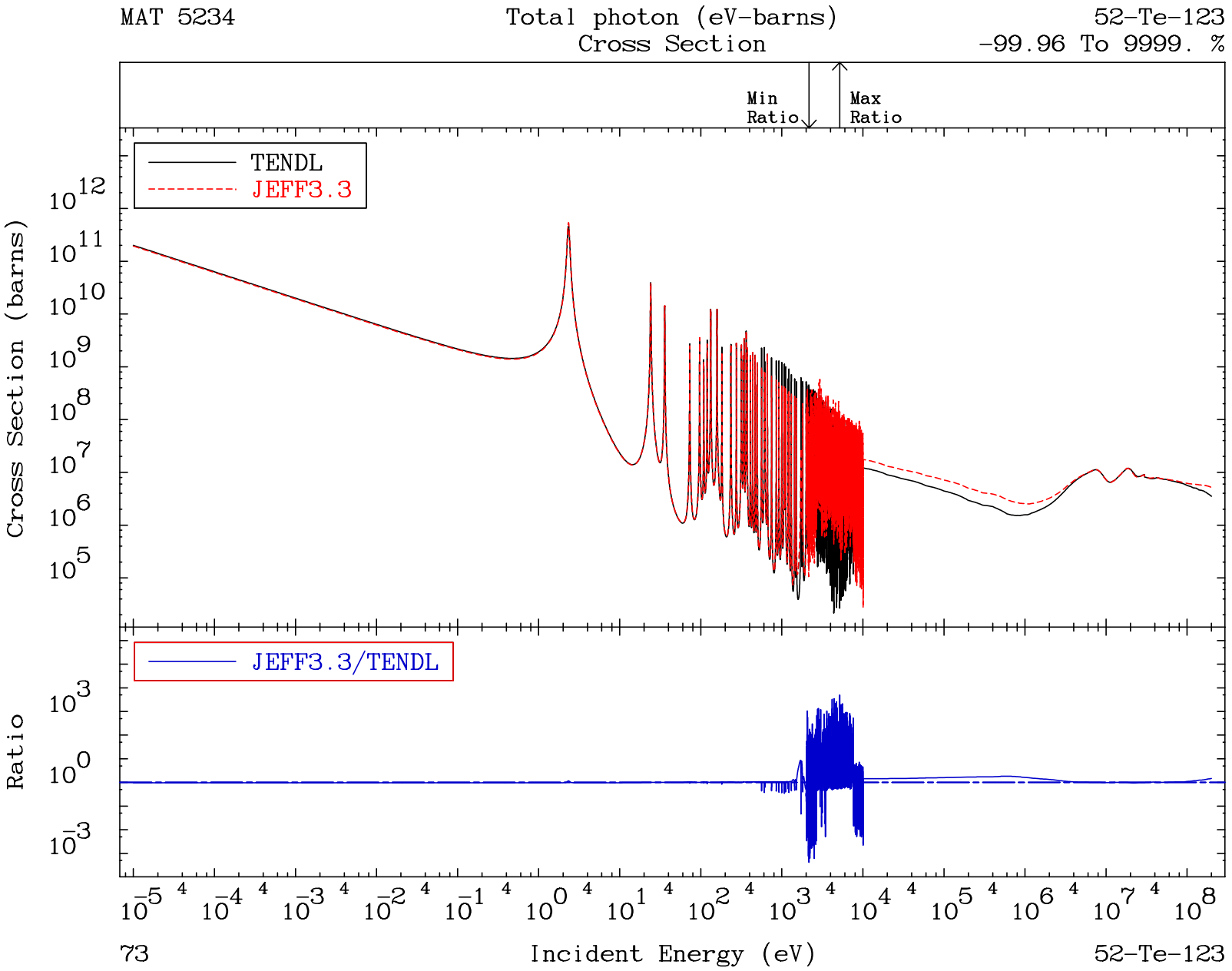

MAT 5234
Kerma elastic
Cross Section
52-Te-123
-99.44 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
68
52-Te-123

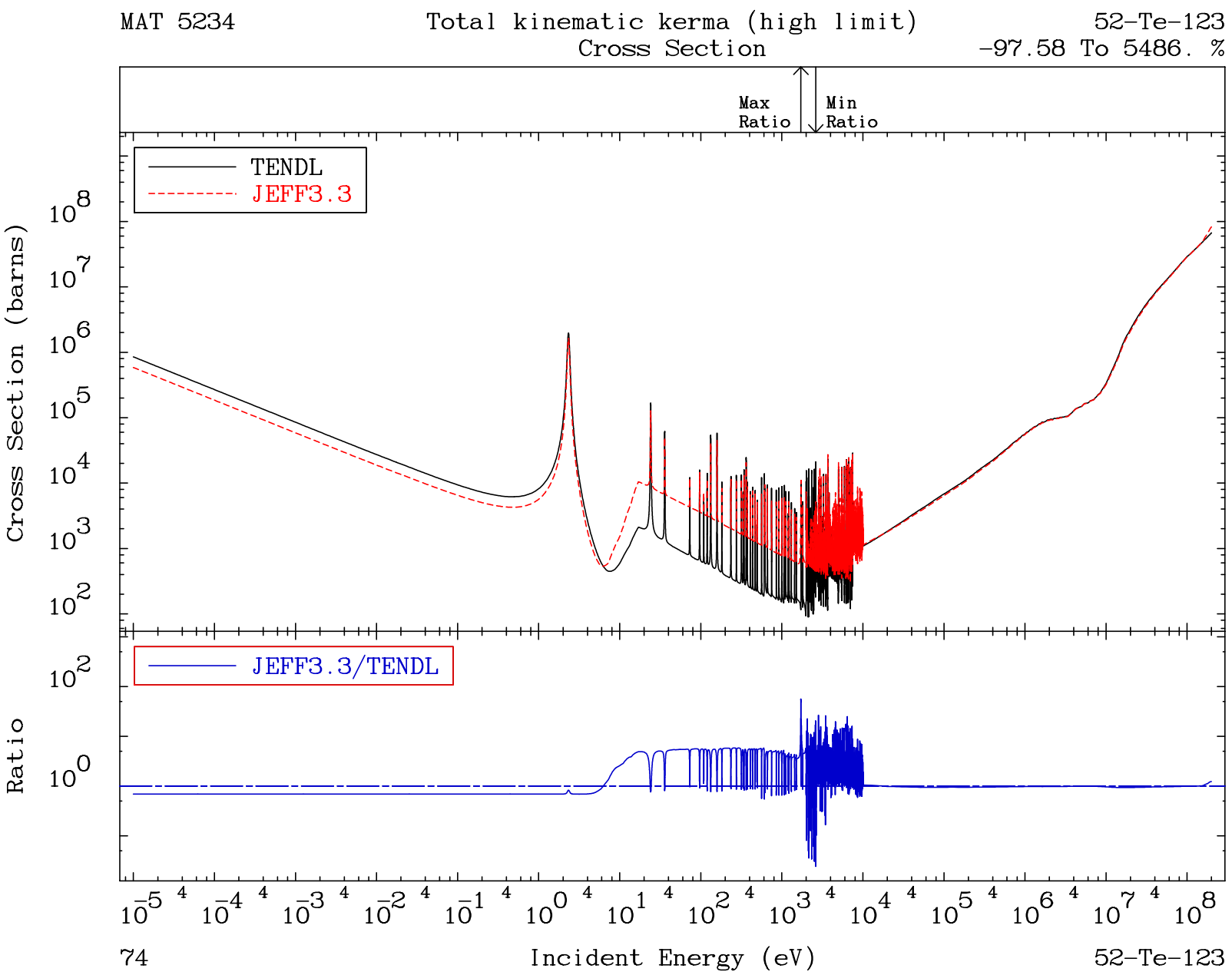

MAT 5234
Kerma non-elastic (all but mt2)
Cross Section
52-Te-123
-78.56 To 2757. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
69
52-Te-123

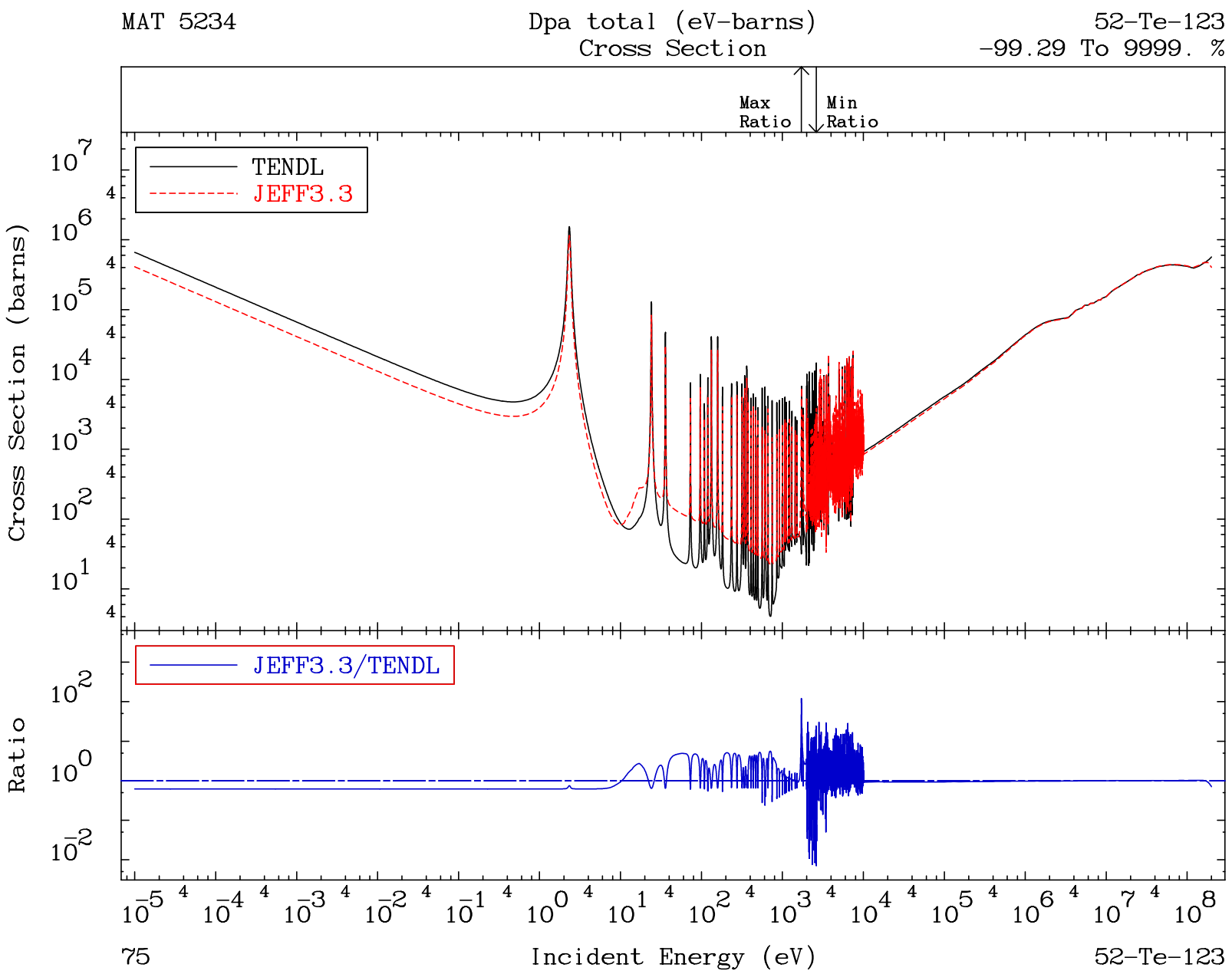

MAT 5234
Kerma inelastic (mt51-91)
Cross Section
52-Te-123
-40.51 To 387.7 %
Max Ratio
Min Ratio
TENDL Threshold 160.33 keV
JEFF3.3 Threshold 160.33 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
70
52-Te-123

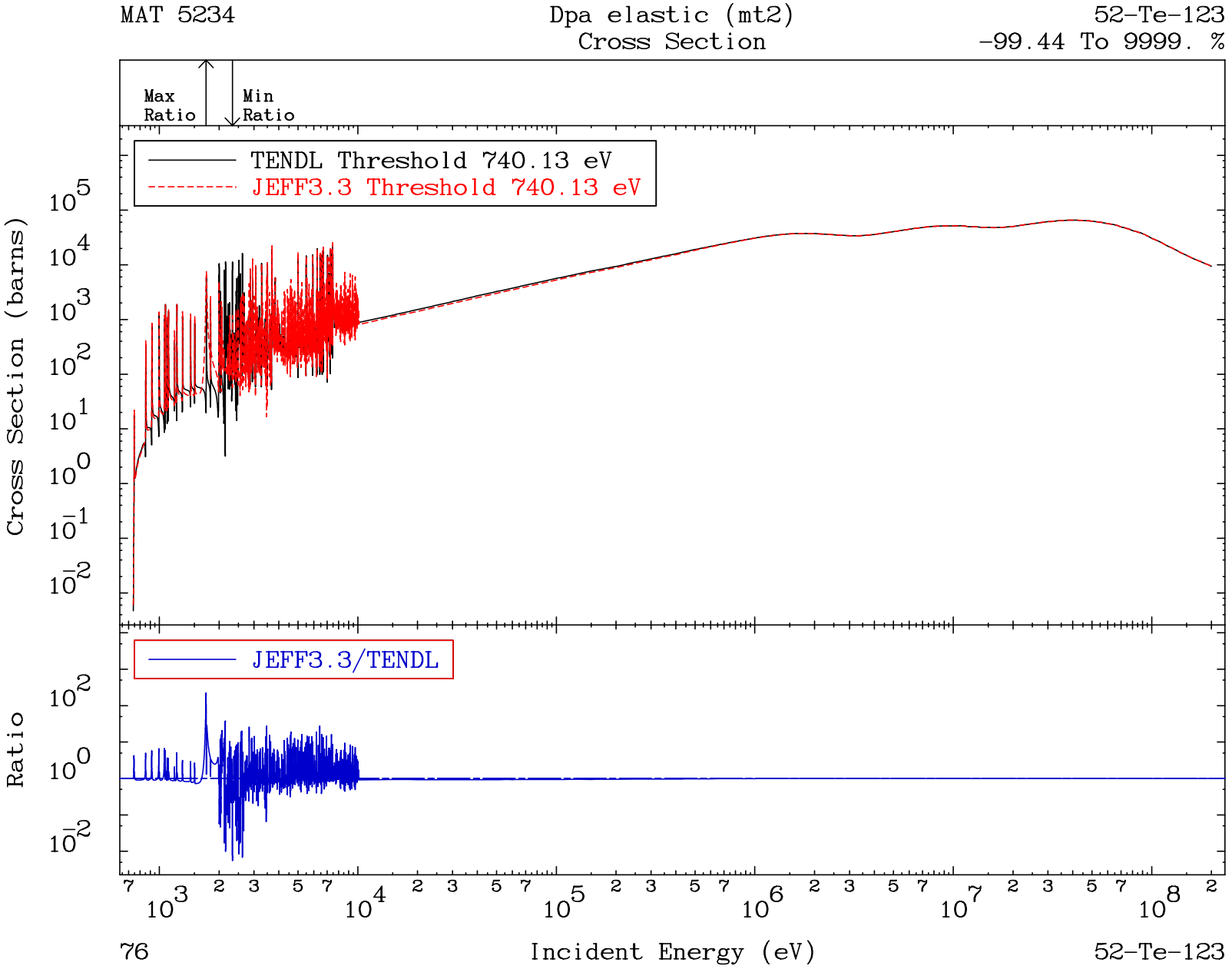

MAT 5234
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
52-Te-123
-40.51 To 387.7 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JEFF3.3/TENDL
Ratio
6
4
2
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
71
Incident Energy (eV)
52-Te-123

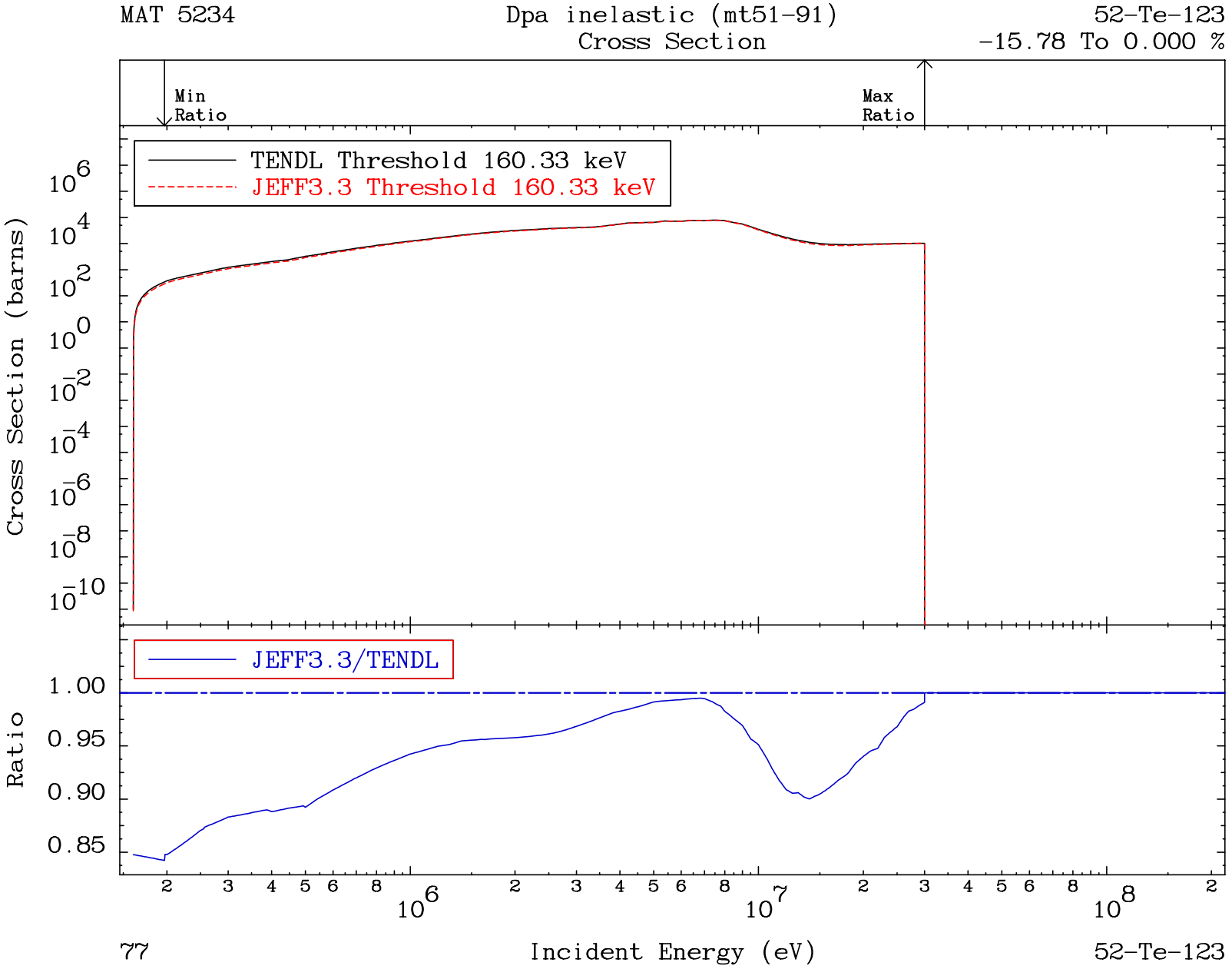

MAT 5234
Kerma capture (mt102)
Cross Section
52-Te-123
-99.97 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
72
52-Te-123

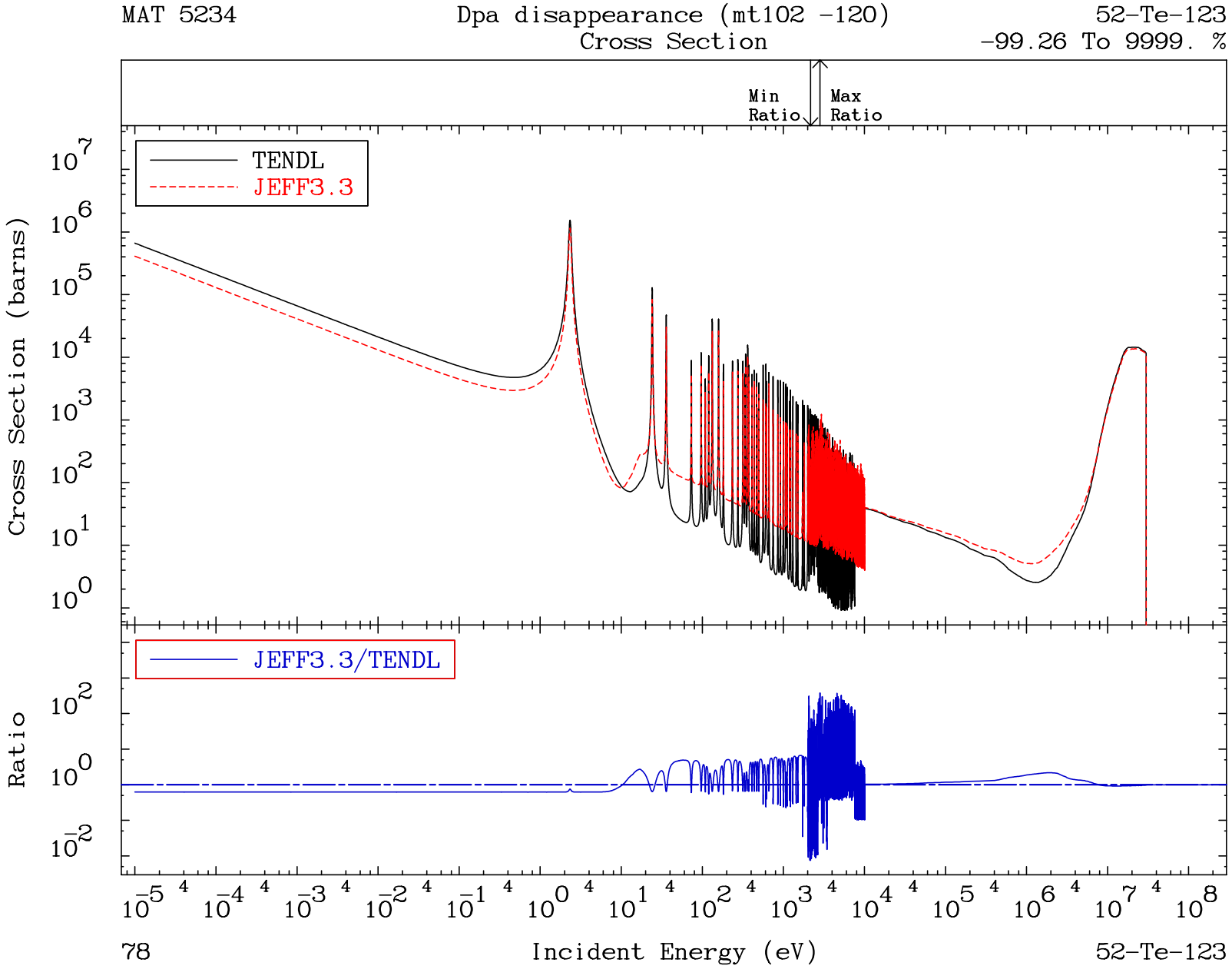

MAT 5234
Total photon (eV-barns)
Cross Section
52-Te-123
-99.96 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
73
52-Te-123

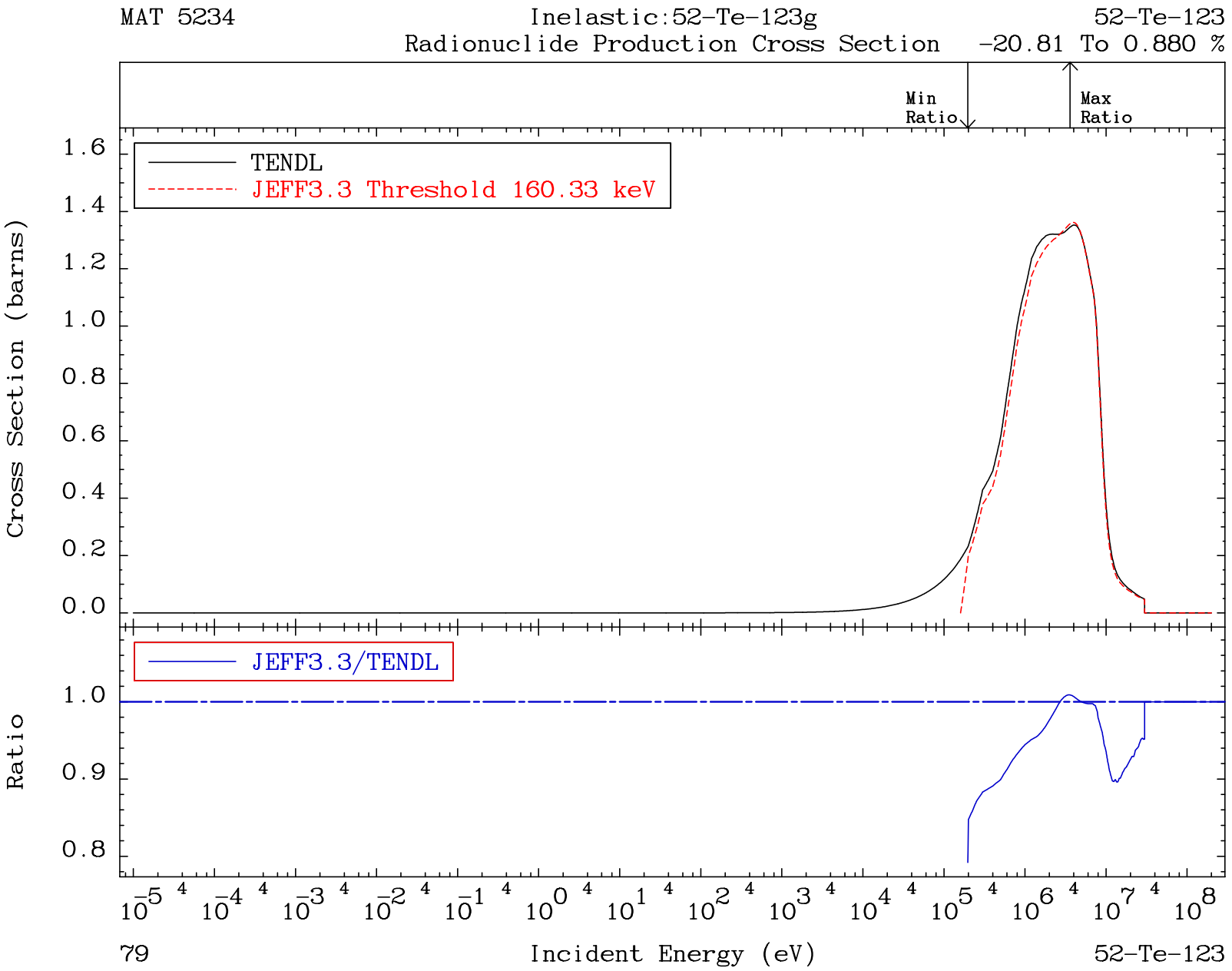

MAT 5234
Total kinematic kerma (high limit)
Cross Section
52-Te-123
-97.58 To 5486. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
74
52-Te-123

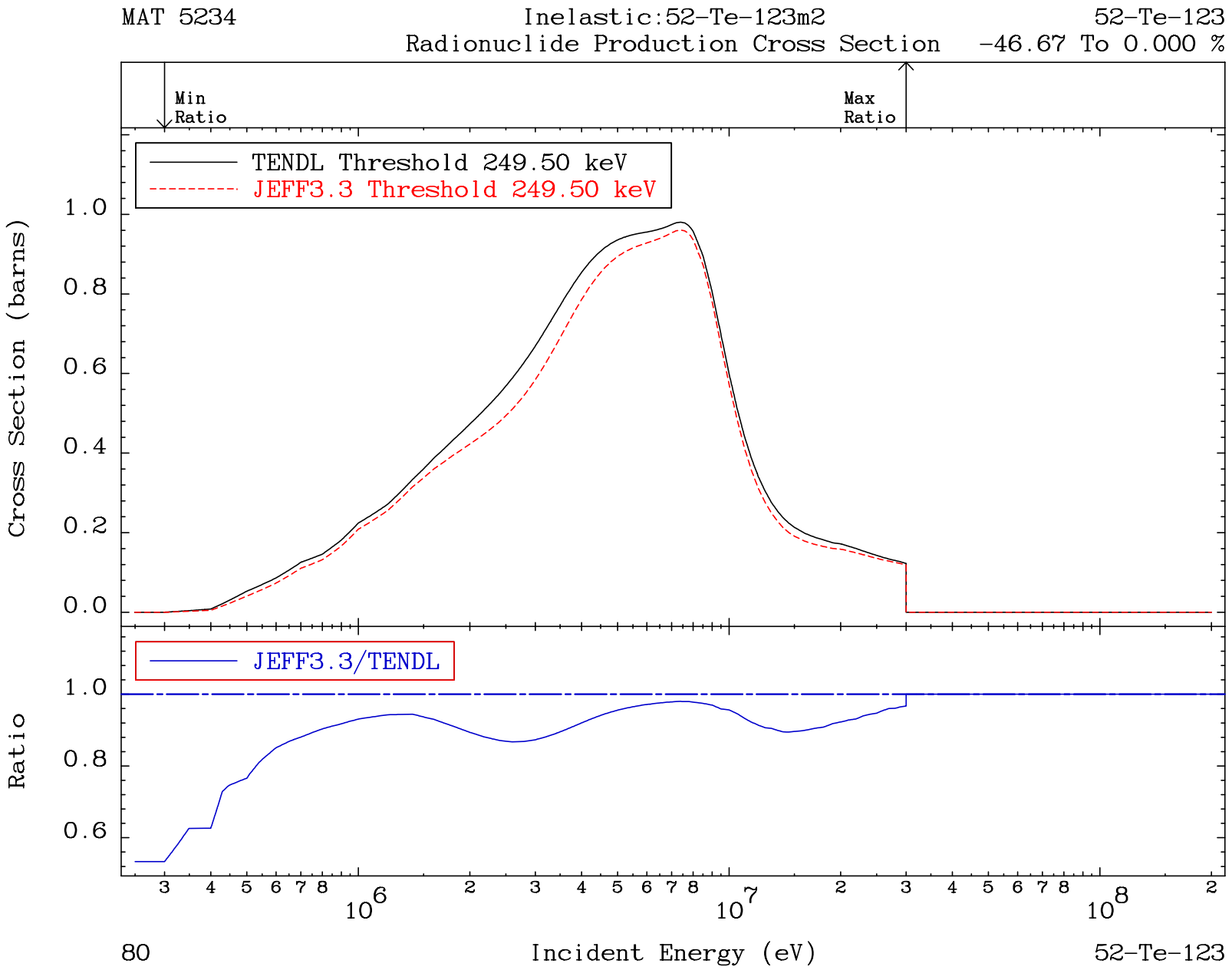

MAT 5234
Dpa total (eV-barns)
Cross Section
52-Te-123
-99.29 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
75
52-Te-123

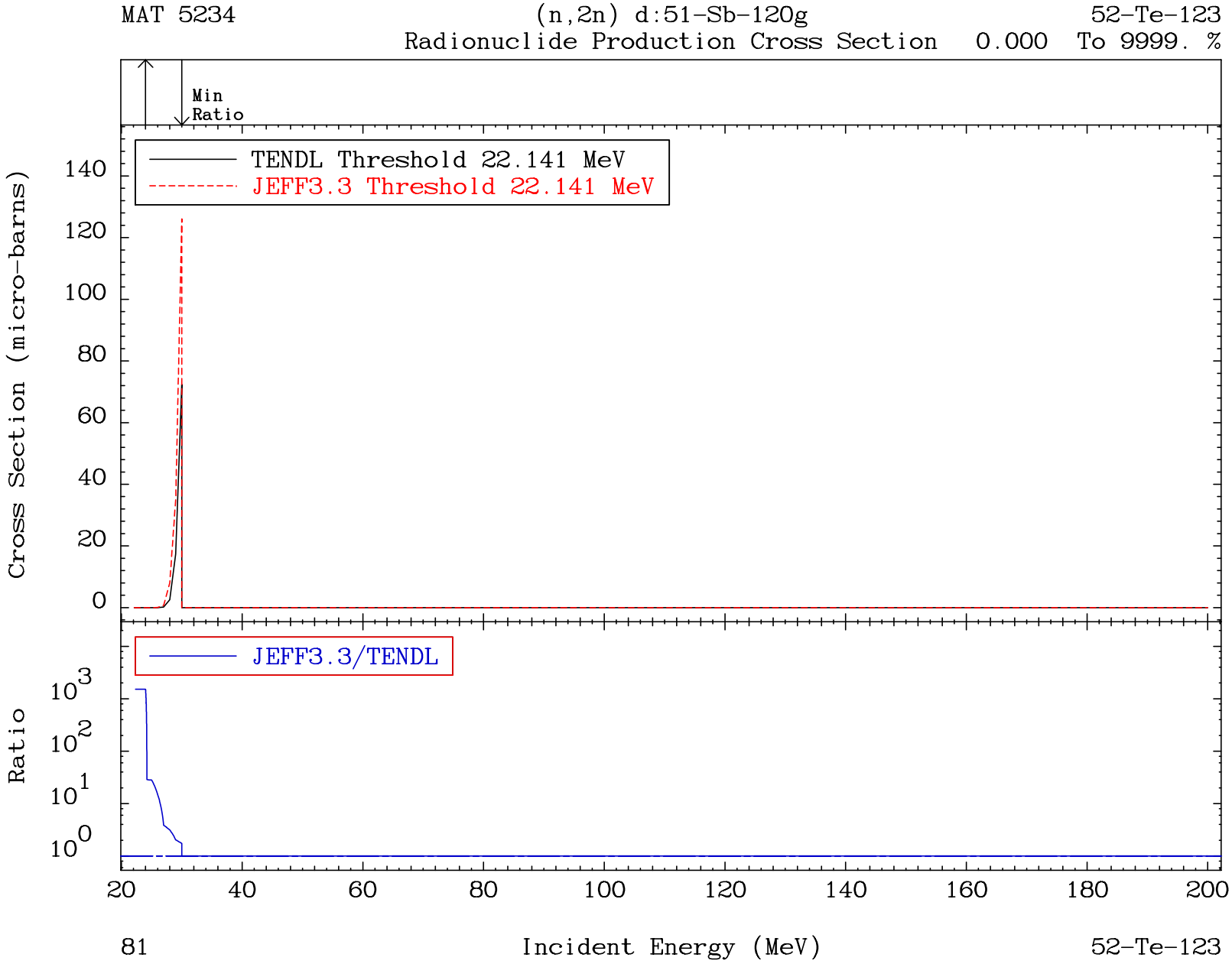

MAT 5234
Dpa elastic (mt2)
Cross Section
52-Te-123
-99.44 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 740.13 eV
JEFF3.3 Threshold 740.13 eV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
76
52-Te-123

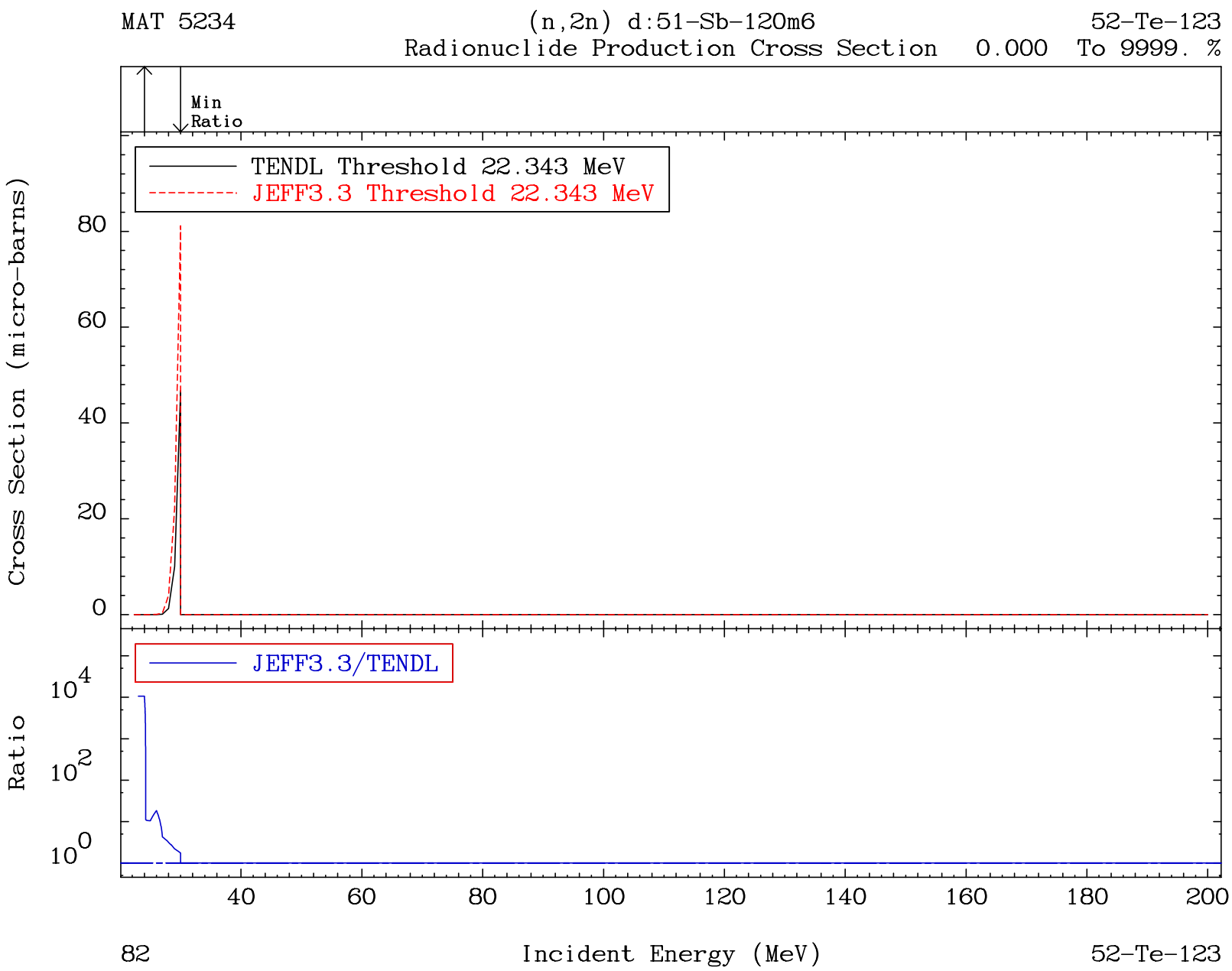

MAT 5234
Dpa inelastic (mt51-91)
Cross Section
52-Te-123
-15.78 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 160.33 keV
JEFF3.3 Threshold 160.33 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
77
52-Te-123

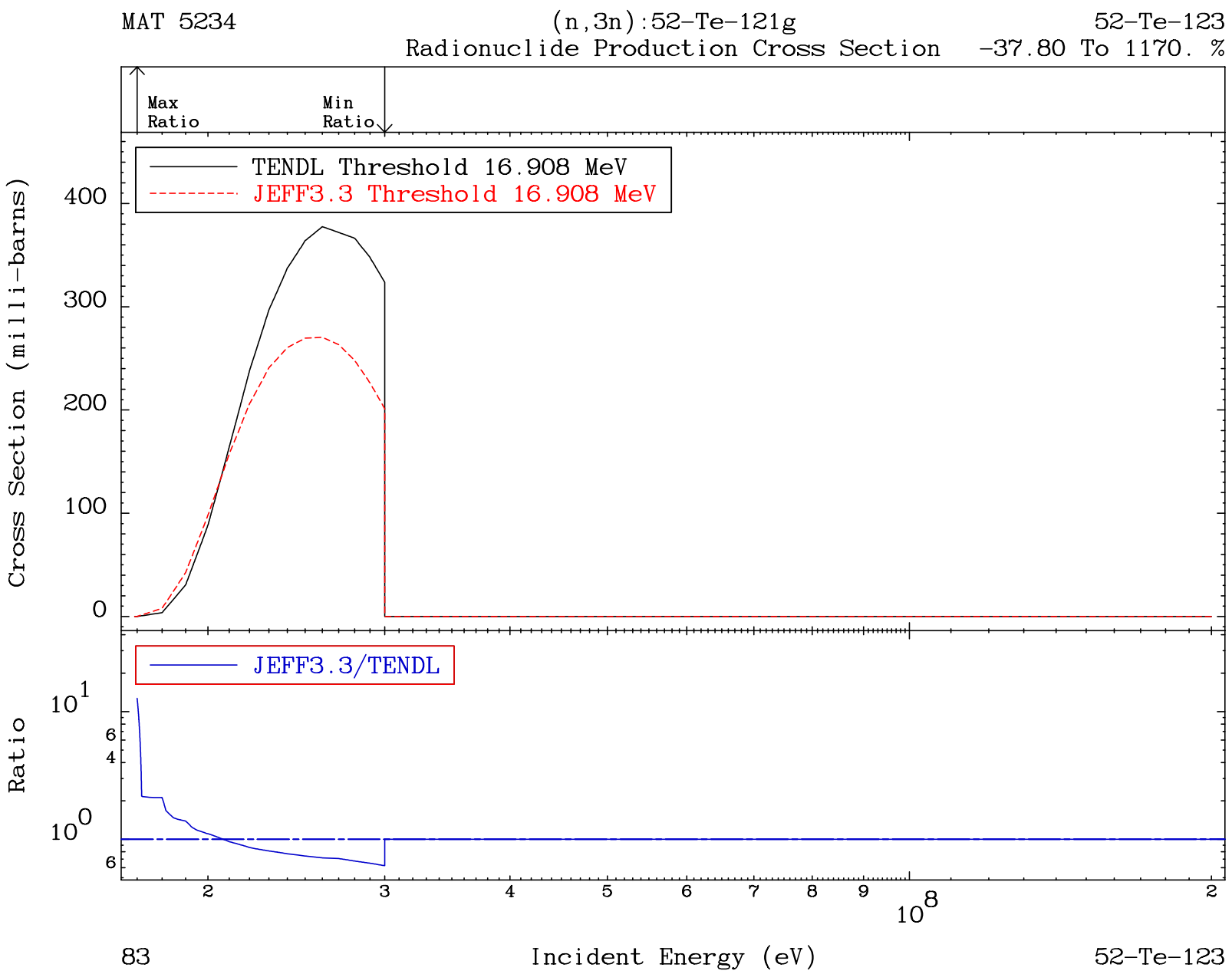

MAT 5234
Dpa disappearance (mt102 -120)
Cross Section
52-Te-123
-99.26 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
78
52-Te-123

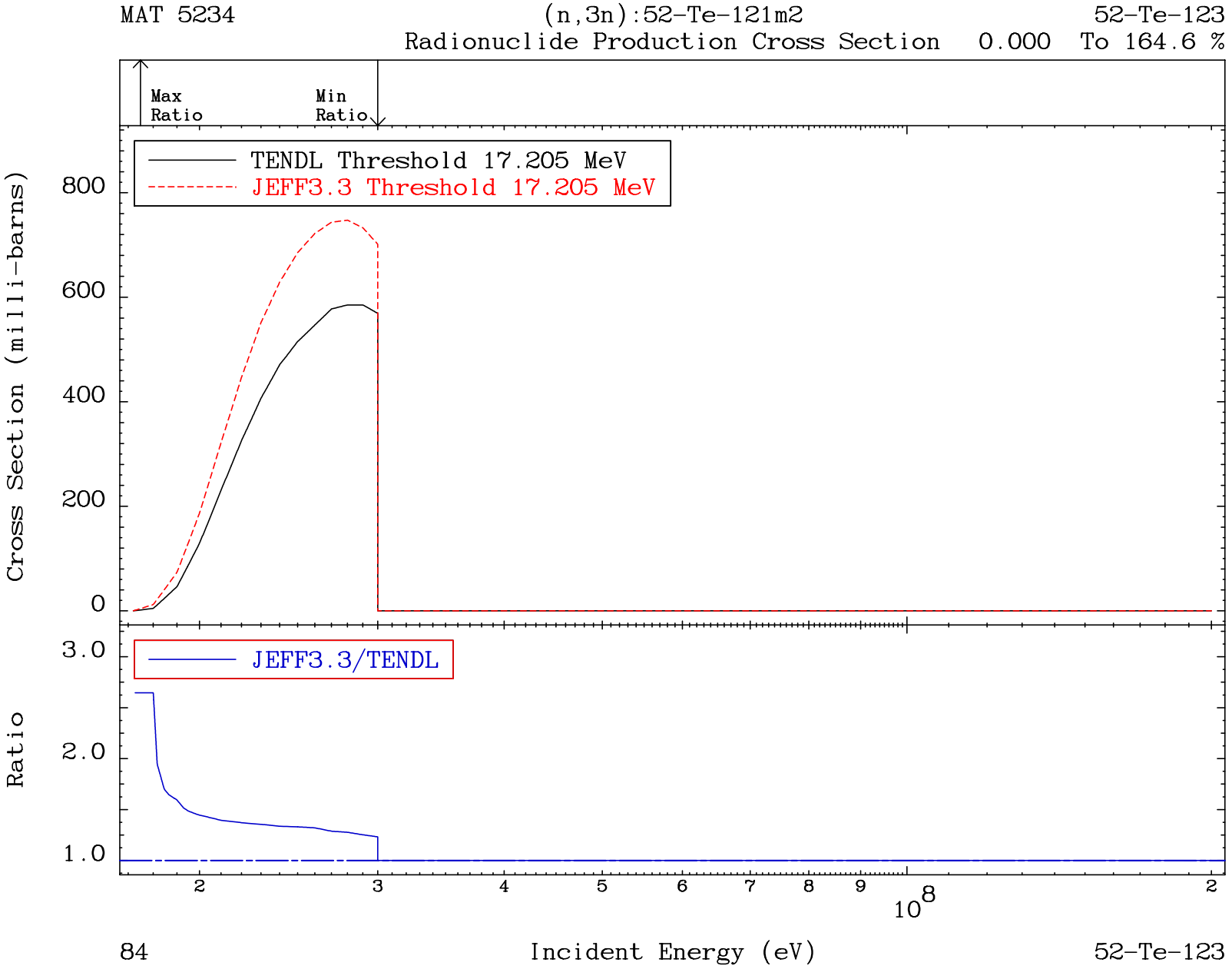

MAT 5234
Inelastic:52-Te-123g
52-Te-123
Radionuclide Production Cross Section
-20.81 To 0.880 %
Min Ratio
Max Ratio
TENDL
JEFF3.3 Threshold 160.33 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.0
0.9
0.8
10-5 4 10-4 4 10-3 4 10-2 4 10-1 4 100 4 101 4 102 4 103 4 104 4 105 4 106 4 107 4 108
79
Incident Energy (eV)
52-Te-123

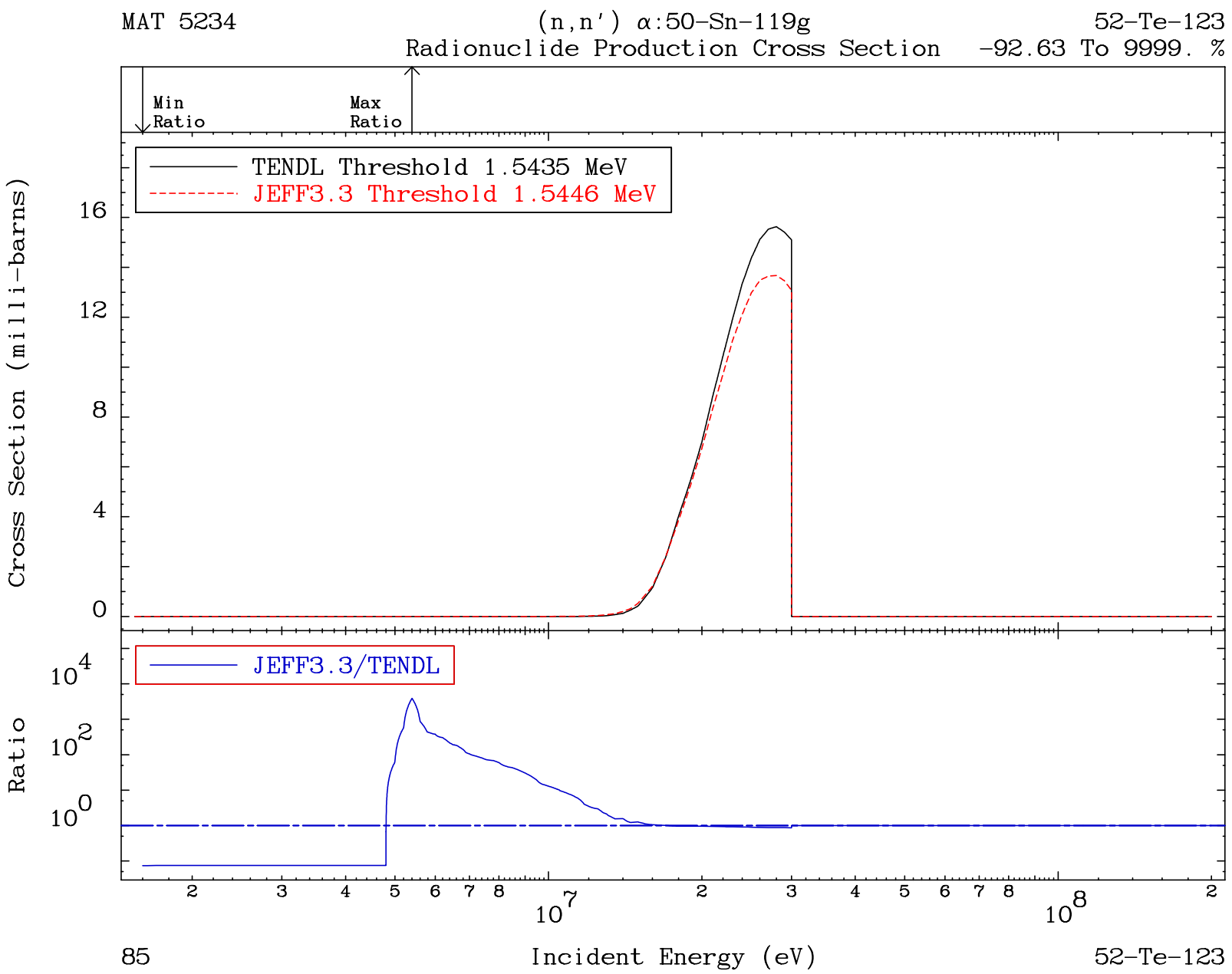

MAT 5234
Inelastic:52-Te-123m2
52-Te-123
Radionuclide Production Cross Section
-46.67 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 249.50 keV
JEFF3.3 Threshold 249.50 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.0
0.8
0.6
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
80
Incident Energy (eV)
52-Te-123

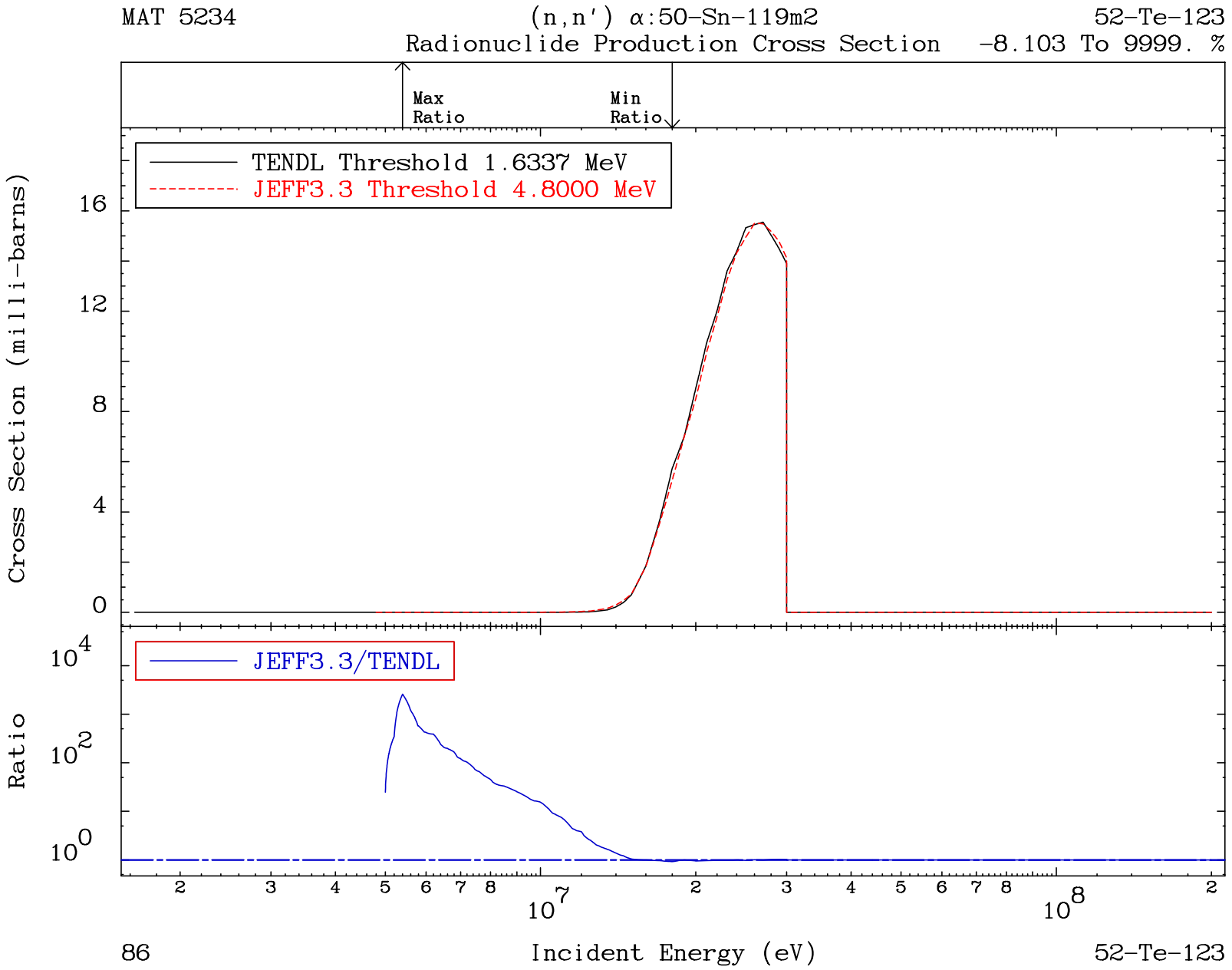

MAT 5234
(n,2n) d:51-Sb-120g
52-Te-123
Radionuclide Production Cross Section 0.000 To 9999. %
Min Ratio
TENDL Threshold 22.141 MeV
JEFF3.3 Threshold 22.141 MeV
Cross Section (micro-barns)
0
20
40
60
80
100
120
140
JEFF3.3/TENDL
Ratio
10^0
10^1
10^2
10^3
20
40
60
80
100
120
140
160
180
200
81
Incident Energy (MeV)
52-Te-123

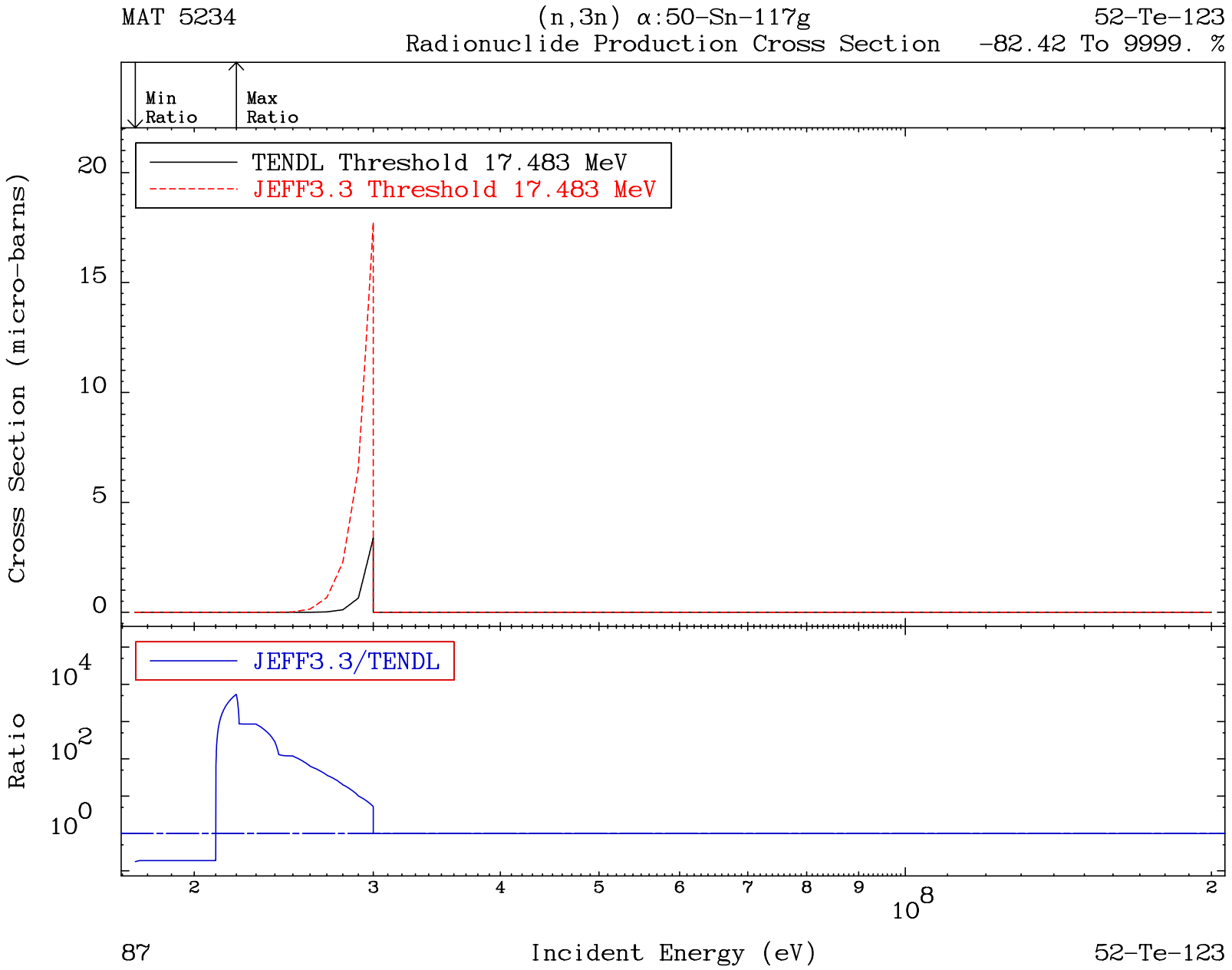

MAT 5234
(n,2n) d:51-Sb-120m6
52-Te-123
Radionuclide Production Cross Section 0.000 To 9999. %
Min Ratio
TENDL Threshold 22.343 MeV
JEFF3.3 Threshold 22.343 MeV
Cross Section (micro-barns)
0
20
40
60
80
JEFF3.3/TENDL
Ratio
10^0
10^2
10^4
40
60
80
100
120
140
160
180
200
82
Incident Energy (MeV)
52-Te-123

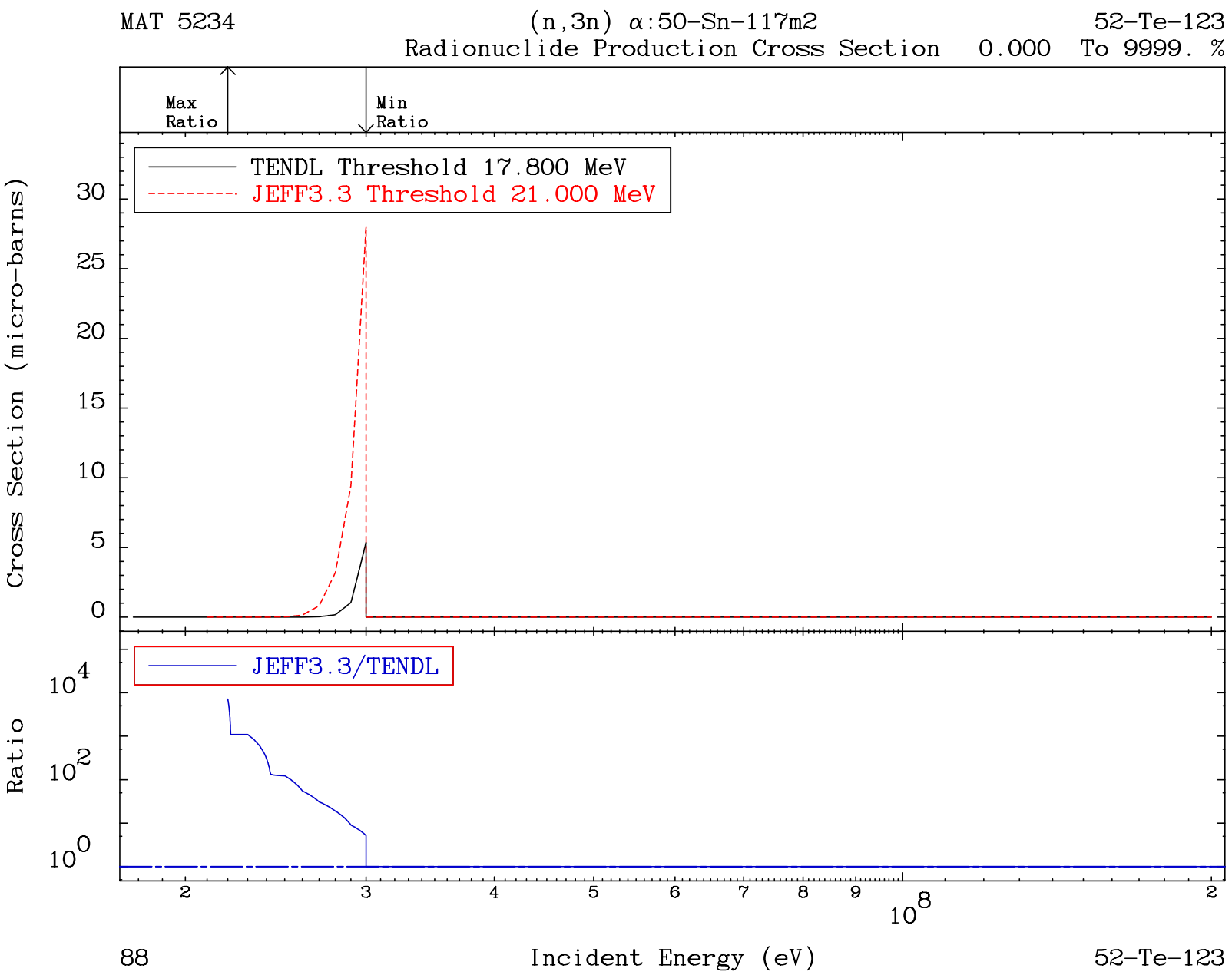

MAT 5234
(n,3n):52-Te-121g
52-Te-123
Radionuclide Production Cross Section
-37.80 To 1170. %
Max Ratio
Min Ratio
TENDL Threshold 16.908 MeV
JEFF3.3 Threshold 16.908 MeV
Cross Section (milli-barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
10^1
6
4
10^0
6
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
52-Te-123

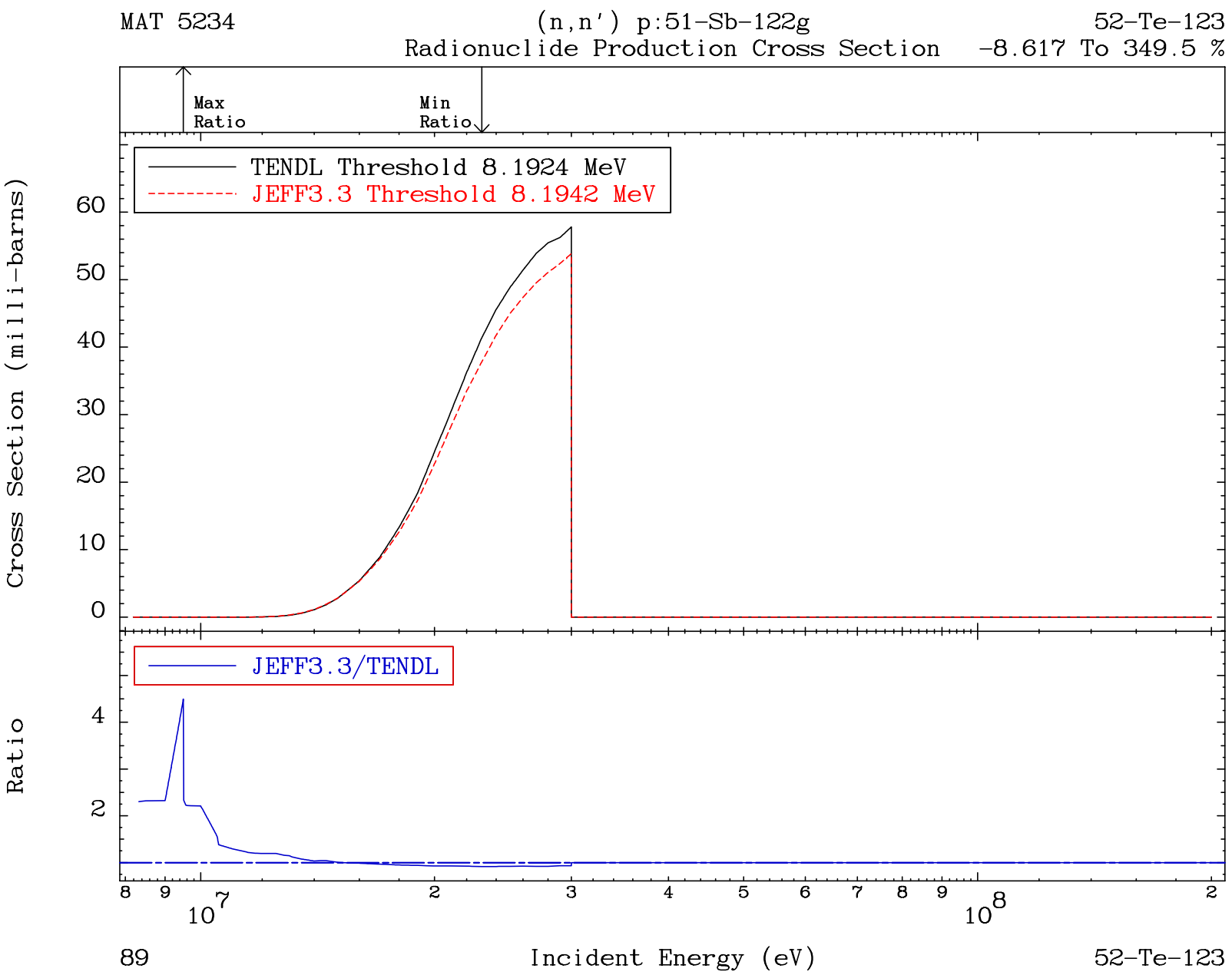

MAT 5234
(n,3n):52-Te-121m2
52-Te-123
Radionuclide Production Cross Section 0.000 To 164.6 %
Max Ratio
Min Ratio
TENDL Threshold 17.205 MeV
JEFF3.3 Threshold 17.205 MeV
Cross Section (milli-barns)
800
600
400
200
0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
52-Te-123

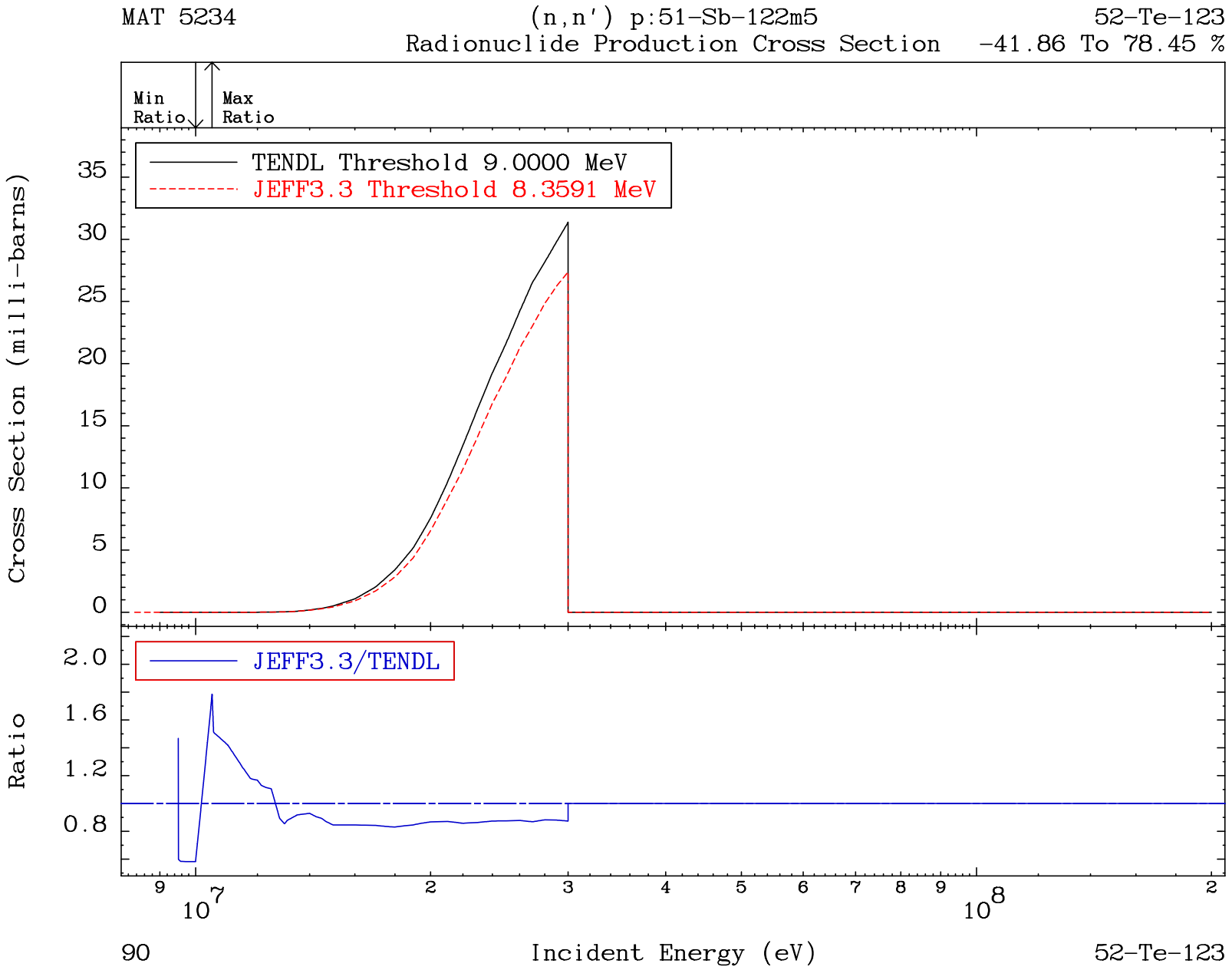

MAT 5234
(n,n') α:50-Sn-119g
52-Te-123
Radionuclide Production Cross Section
-92.63 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.5435 MeV
JEFF3.3 Threshold 1.5446 MeV
Cross Section (milli-barns)
16
12
8
4
0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
85
Incident Energy (eV)
52-Te-123

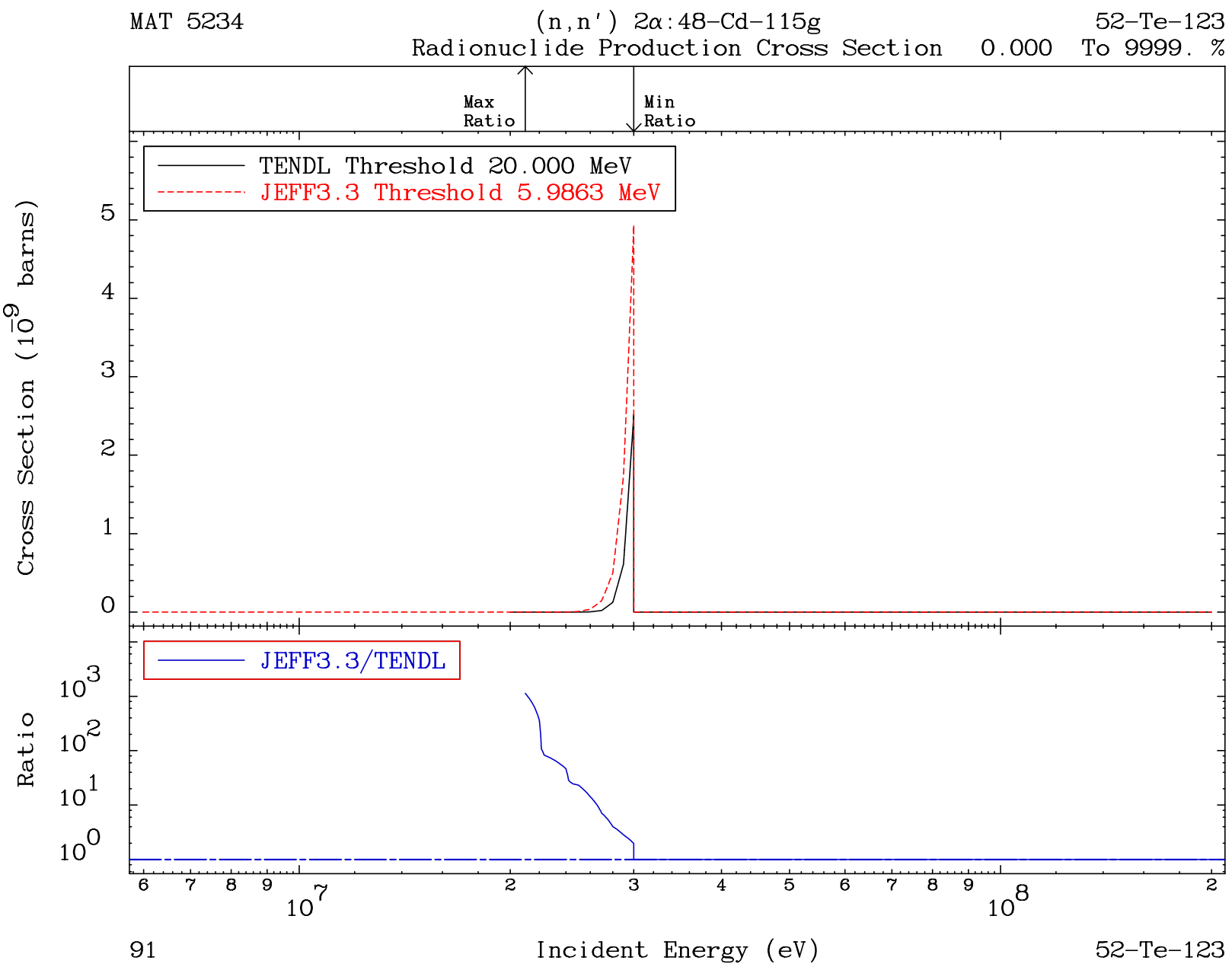

MAT 5234
(n,n') α:50-Sn-119m2
52-Te-123
Radionuclide Production Cross Section -8.103 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.6337 MeV
JEFF3.3 Threshold 4.8000 MeV
Cross Section (milli-barns)
16
12
8
4
0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
86
Incident Energy (eV)
52-Te-123

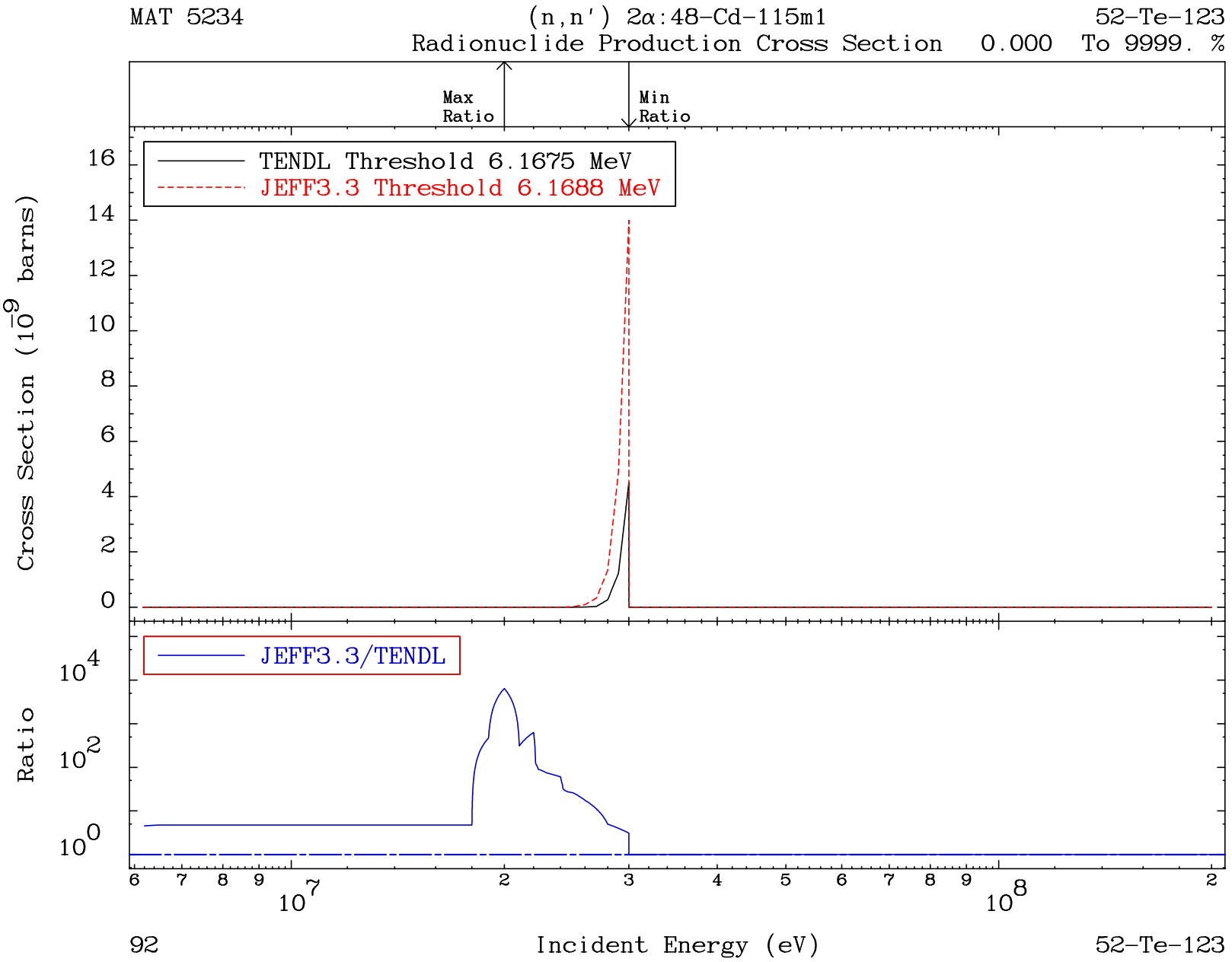

MAT 5234
(n,3n) α:50-Sn-117g
52-Te-123
Radionuclide Production Cross Section
-82.42 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 17.483 MeV
JEFF3.3 Threshold 17.483 MeV
Cross Section (micro-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
87
Incident Energy (eV)
52-Te-123

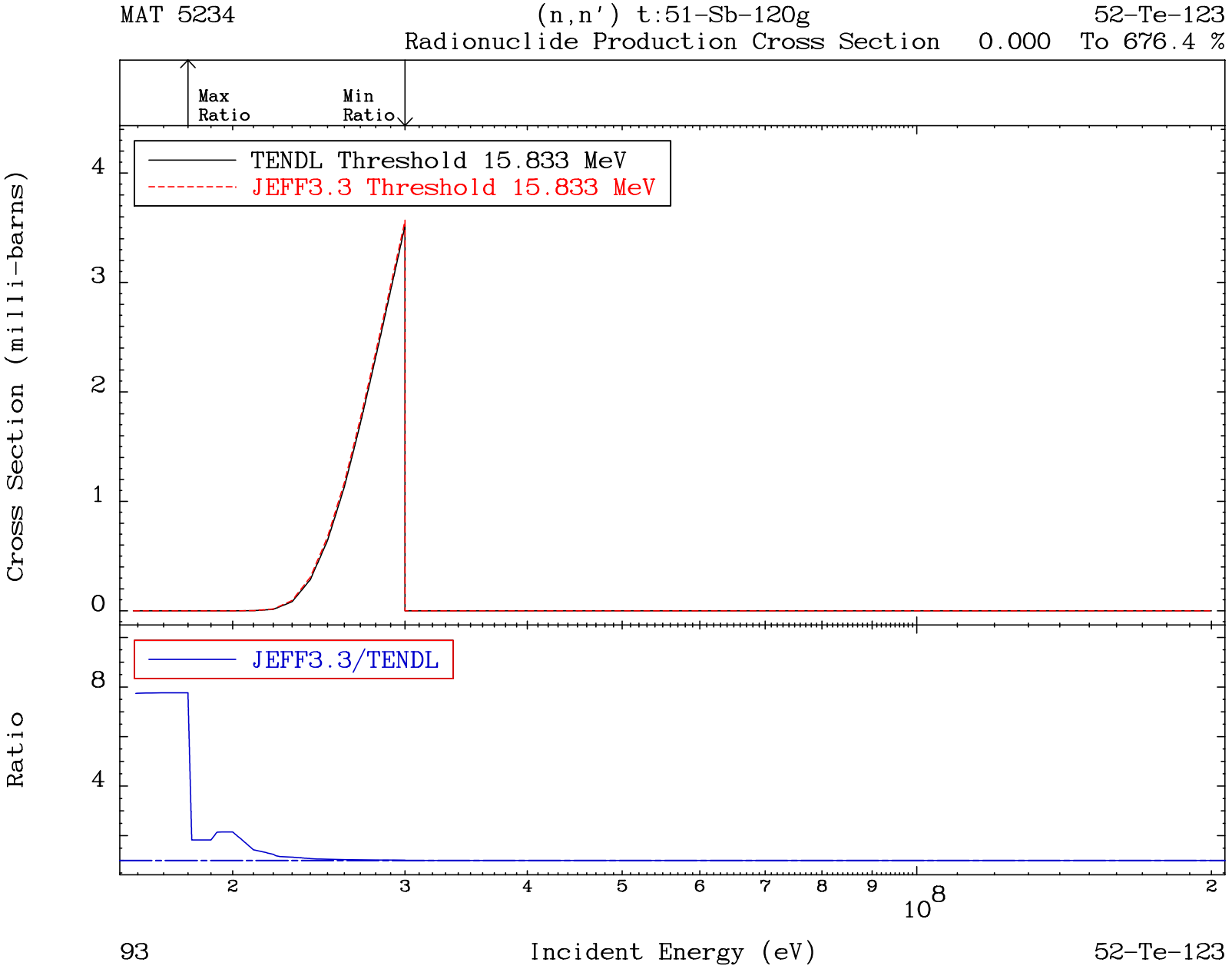

MAT 5234
(n,3n) α:50-Sn-117m2
52-Te-123
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 17.800 MeV
JEFF3.3 Threshold 21.000 MeV
Cross Section (micro-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
88
Incident Energy (eV)
52-Te-123

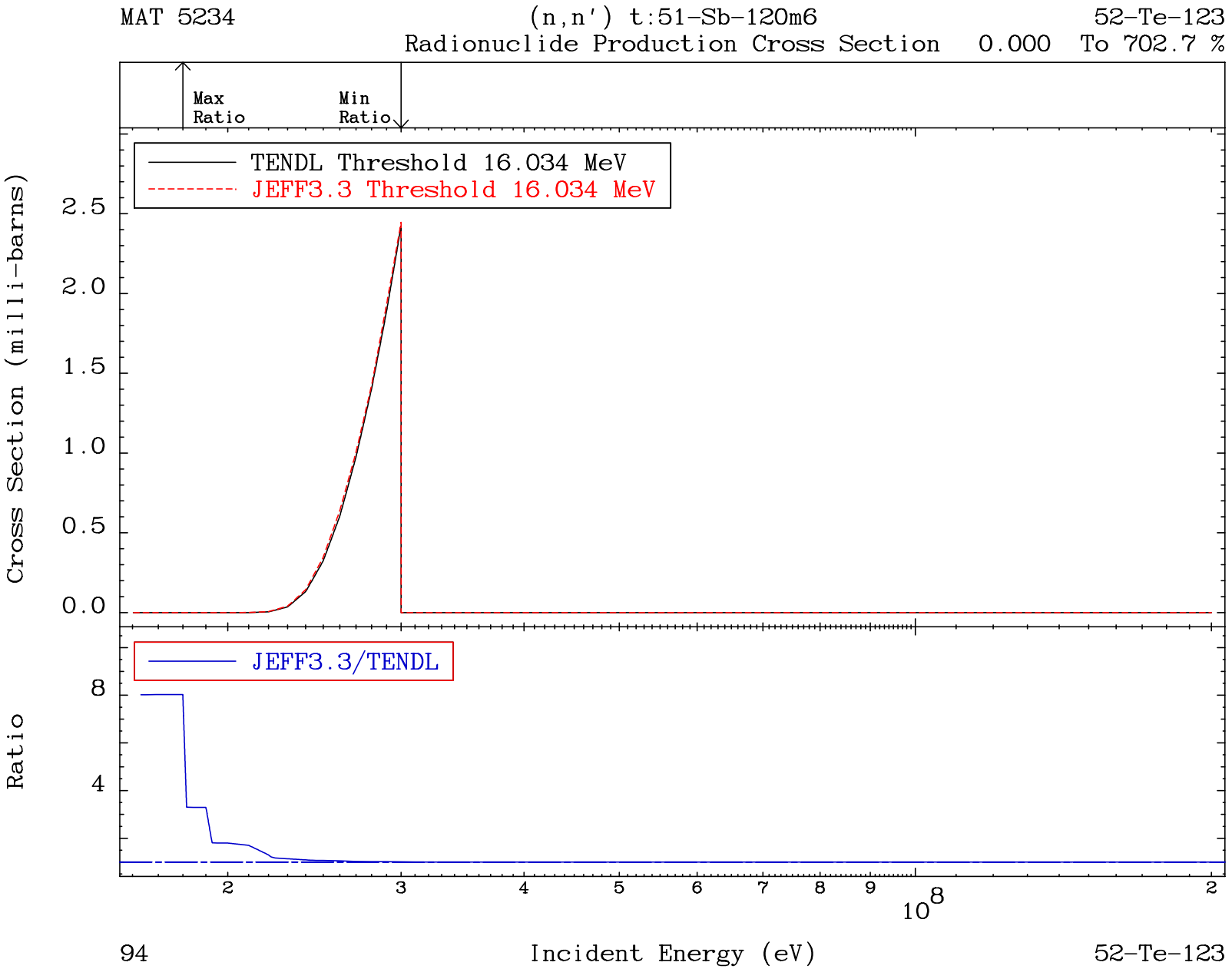

MAT 5234
(n,n') p:51-Sb-122g
52-Te-123
Radionuclide Production Cross Section -8.617 To 349.5 %
Max Ratio
Min Ratio
TENDL Threshold 8.1924 MeV
JEFF3.3 Threshold 8.1942 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
4
2
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
89
Incident Energy (eV)
52-Te-123

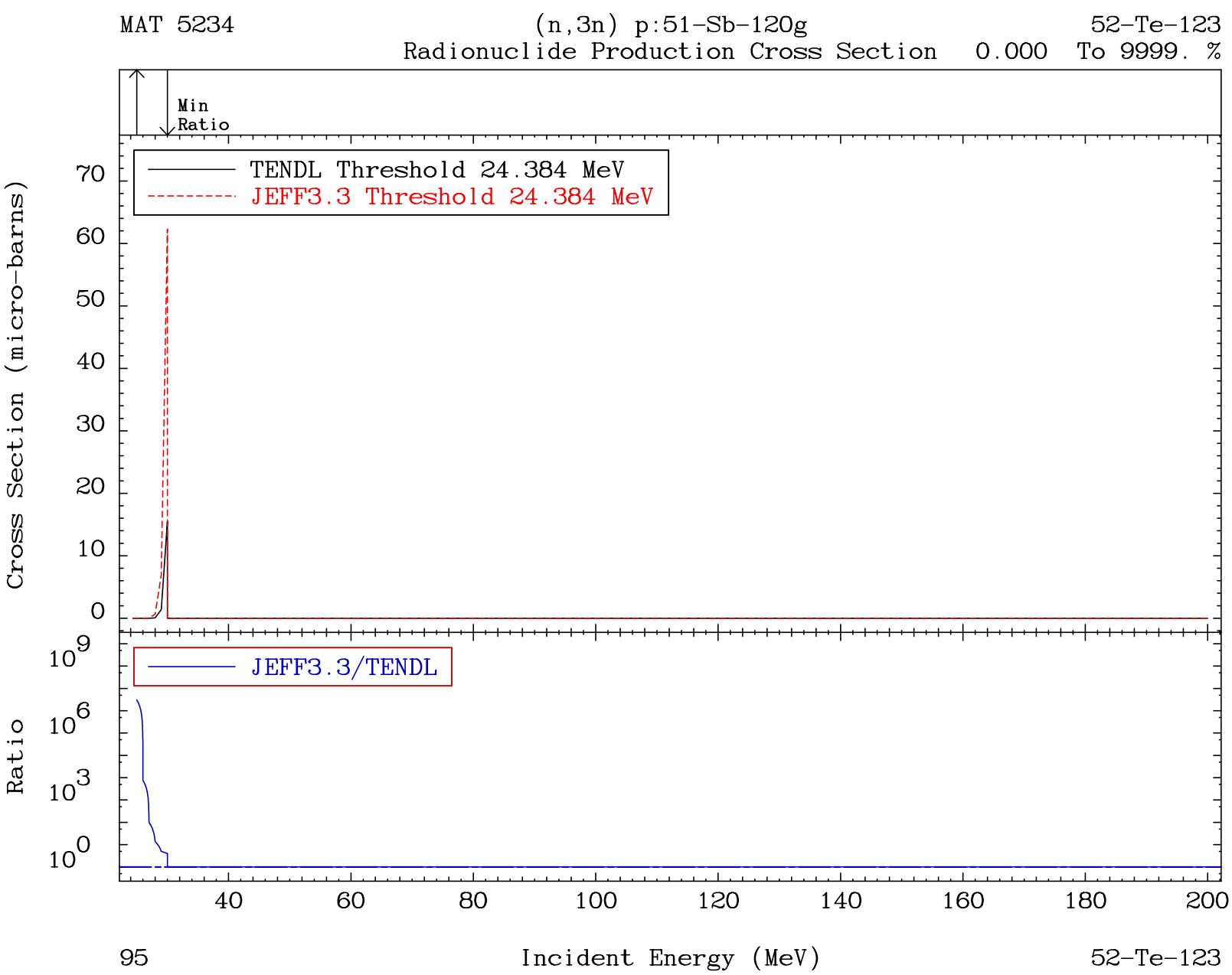

MAT 5234
(n,n') p:51-Sb-122m5
52-Te-123
Radionuclide Production Cross Section -41.86 To 78.45 %
Min Ratio
Max Ratio
TENDL Threshold 9.0000 MeV
JEFF3.3 Threshold 8.3591 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
2.0
1.6
1.2
0.8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
90
Incident Energy (eV)
52-Te-123

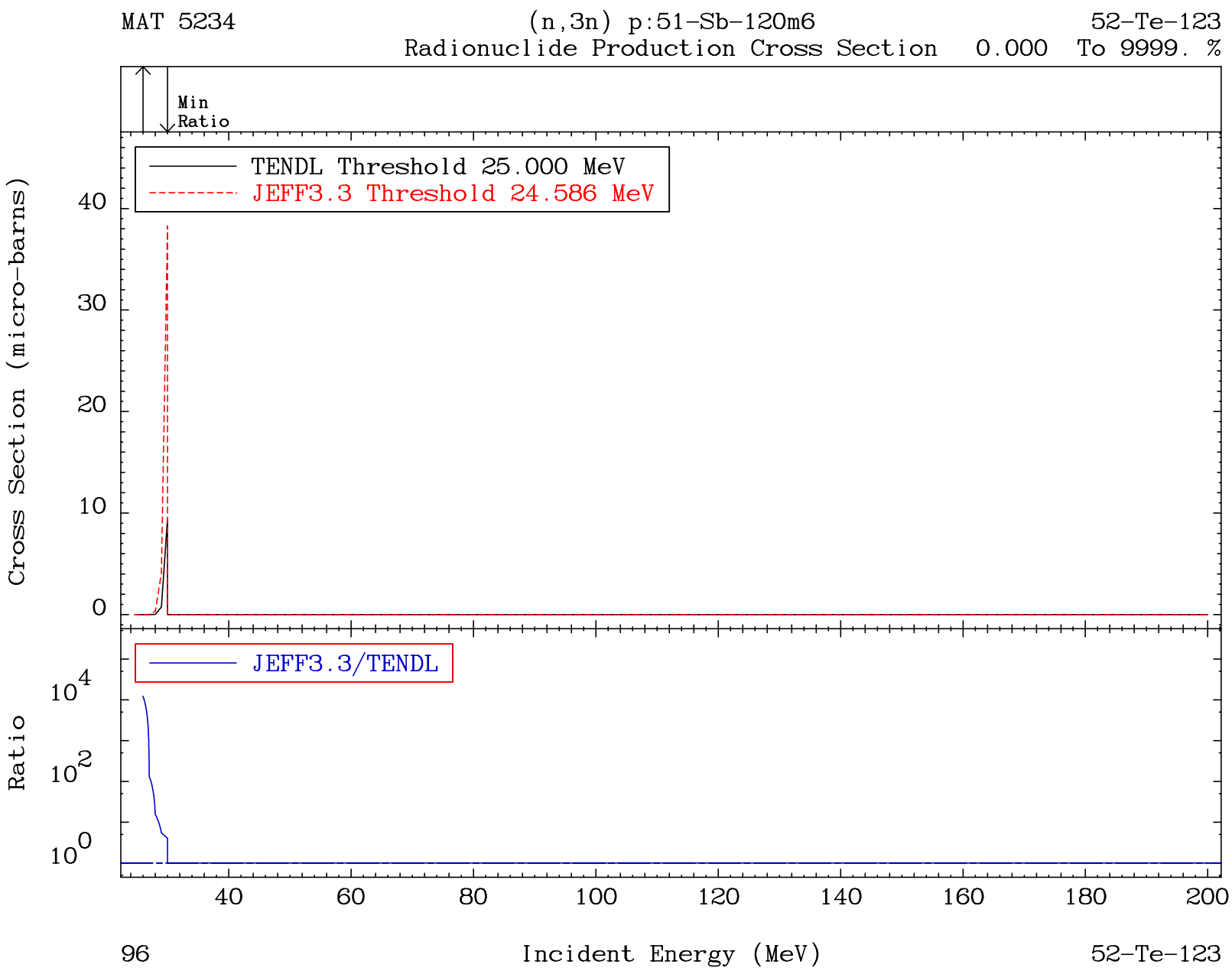

MAT 5234
(n,n') 2α:48-Cd-115g
52-Te-123
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 20.000 MeV
JEFF3.3 Threshold 5.9863 MeV
Cross Section (10^{-9} barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
91
52-Te-123

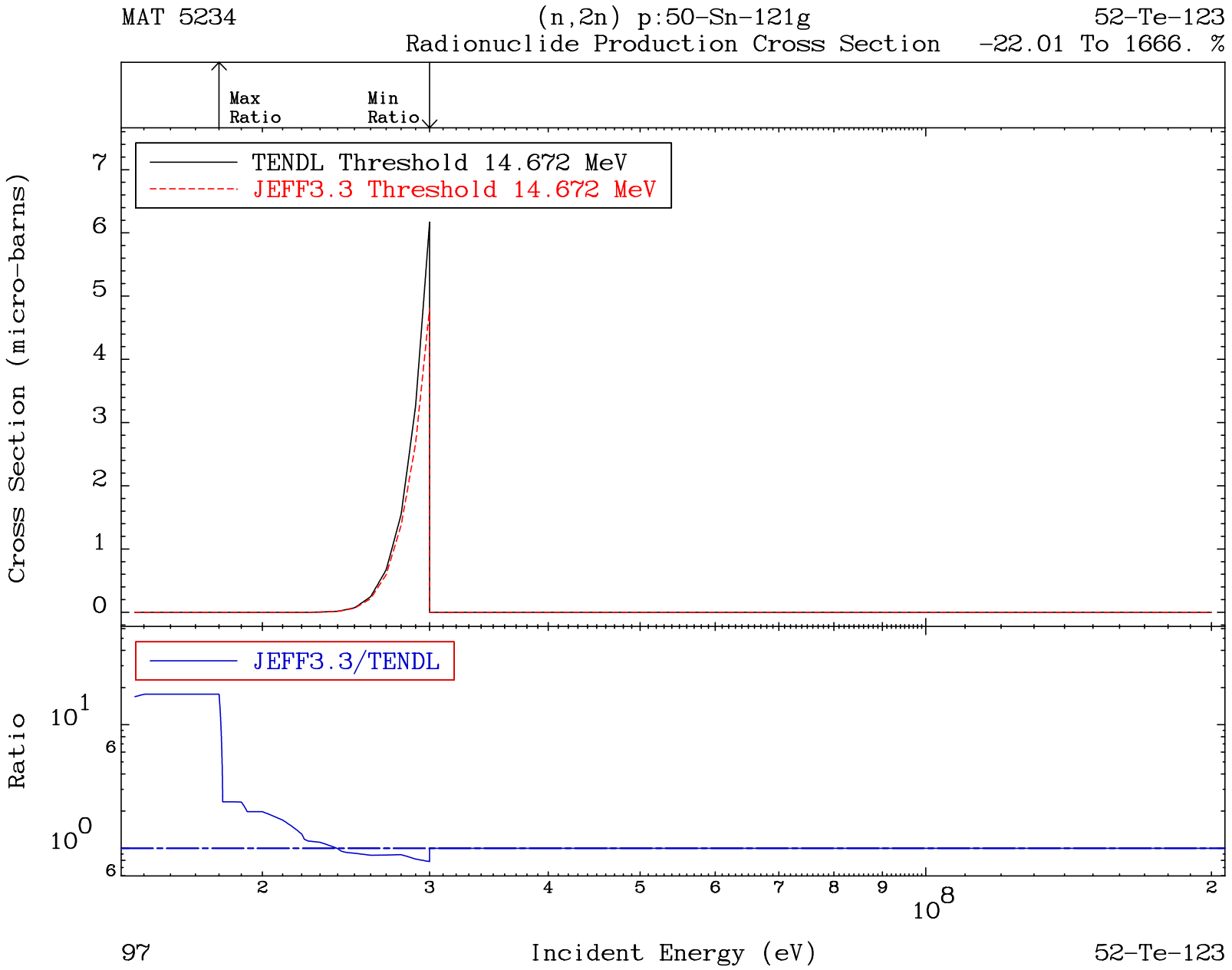

MAT 5234
(n,n') 2α:48-Cd-115m1
52-Te-123
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.1675 MeV
JEFF3.3 Threshold 6.1688 MeV
Cross Section (10^{-9} barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
92
52-Te-123

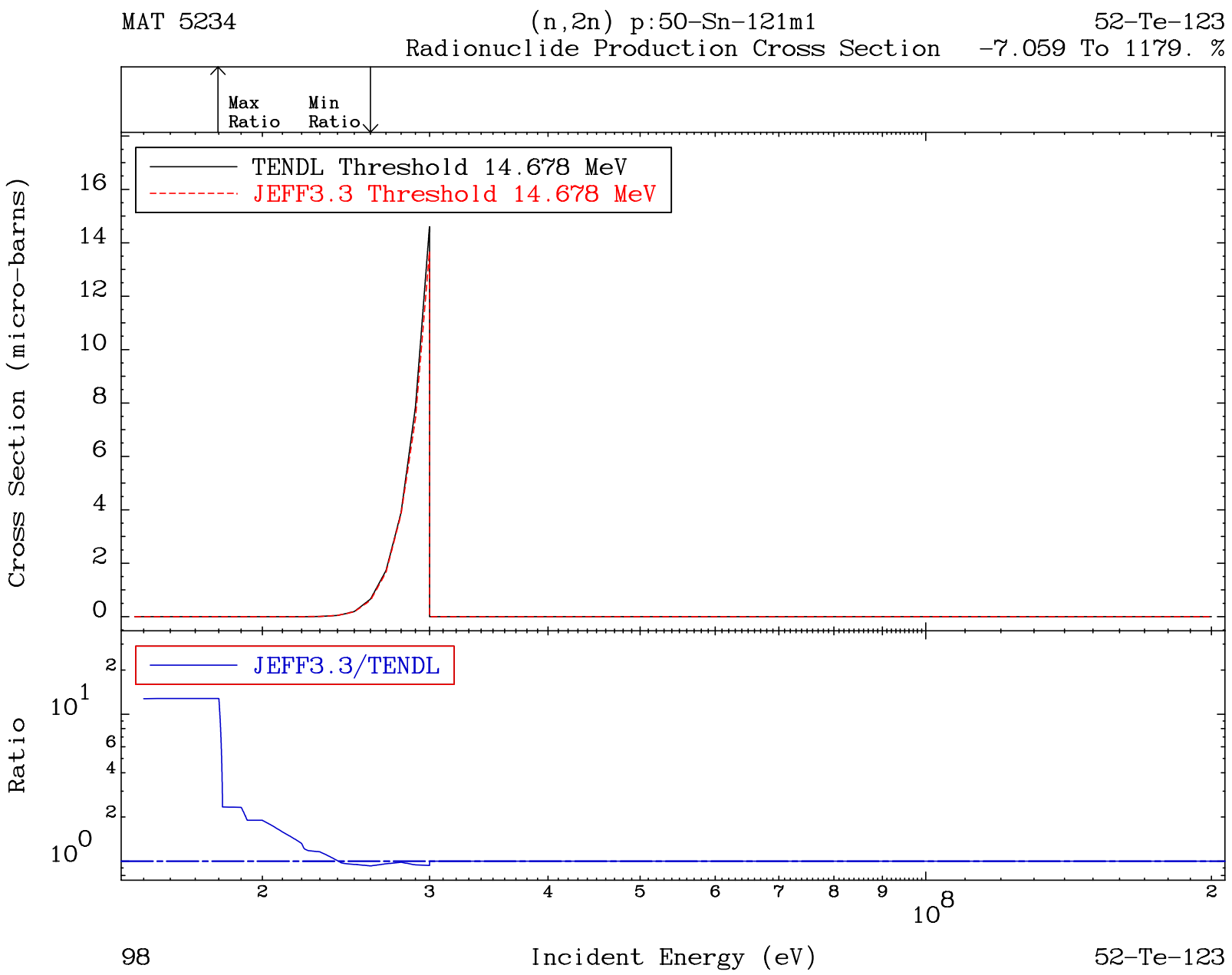

MAT 5234
(n,n') t:51-Sb-120g
52-Te-123
Radionuclide Production Cross Section 0.000 To 676.4 %
Max Ratio
Min Ratio
TENDL Threshold 15.833 MeV
JEFF3.3 Threshold 15.833 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
93
52-Te-123

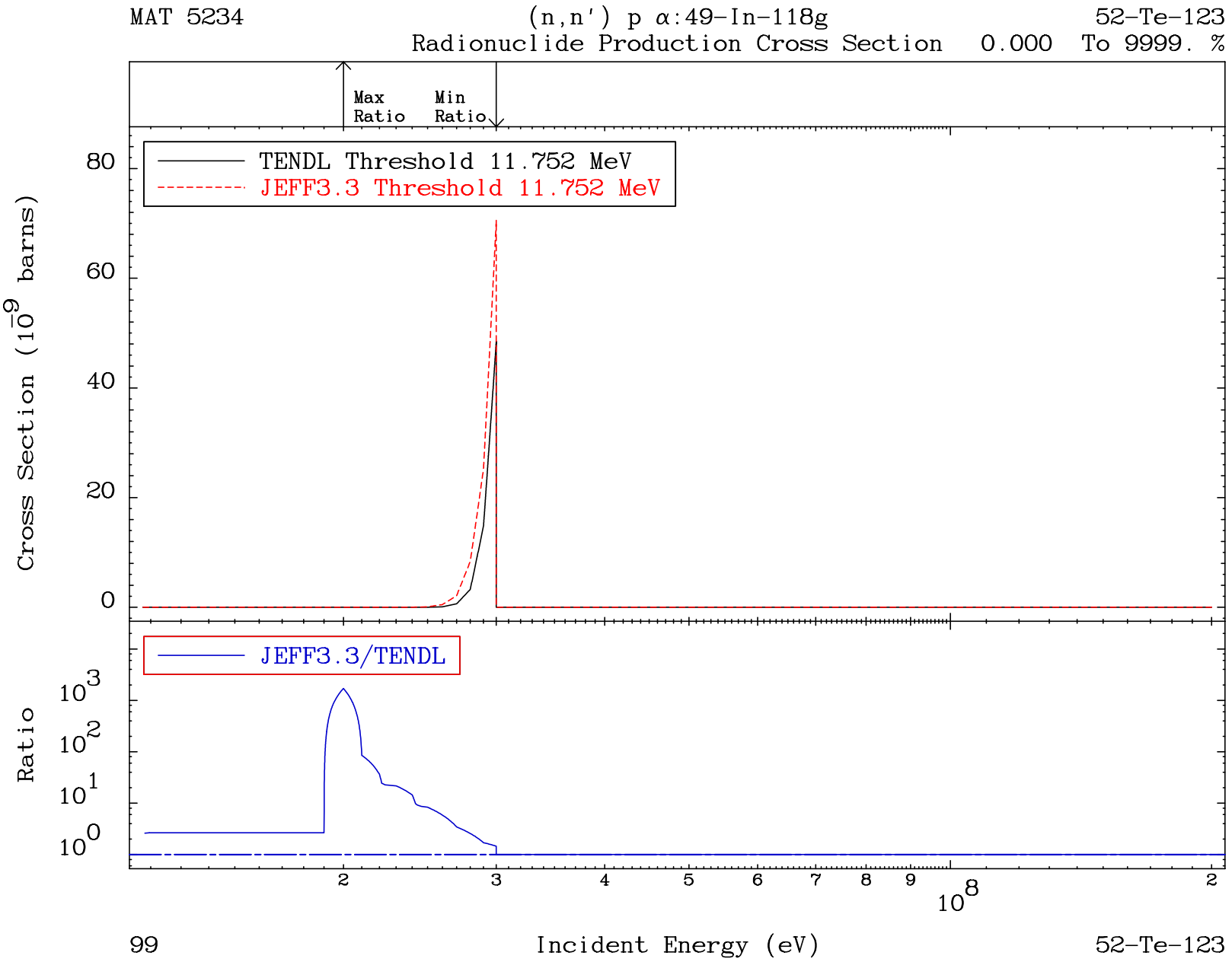

MAT 5234
(n,n') t:51-Sb-120m6
52-Te-123
Radionuclide Production Cross Section 0.000 To 702.7 %
Max Ratio
Min Ratio
TENDL Threshold 16.034 MeV
JEFF3.3 Threshold 16.034 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
8
4
2
3
4
5
6
7
8
9
10^8
2
94
Incident Energy (eV)
52-Te-123

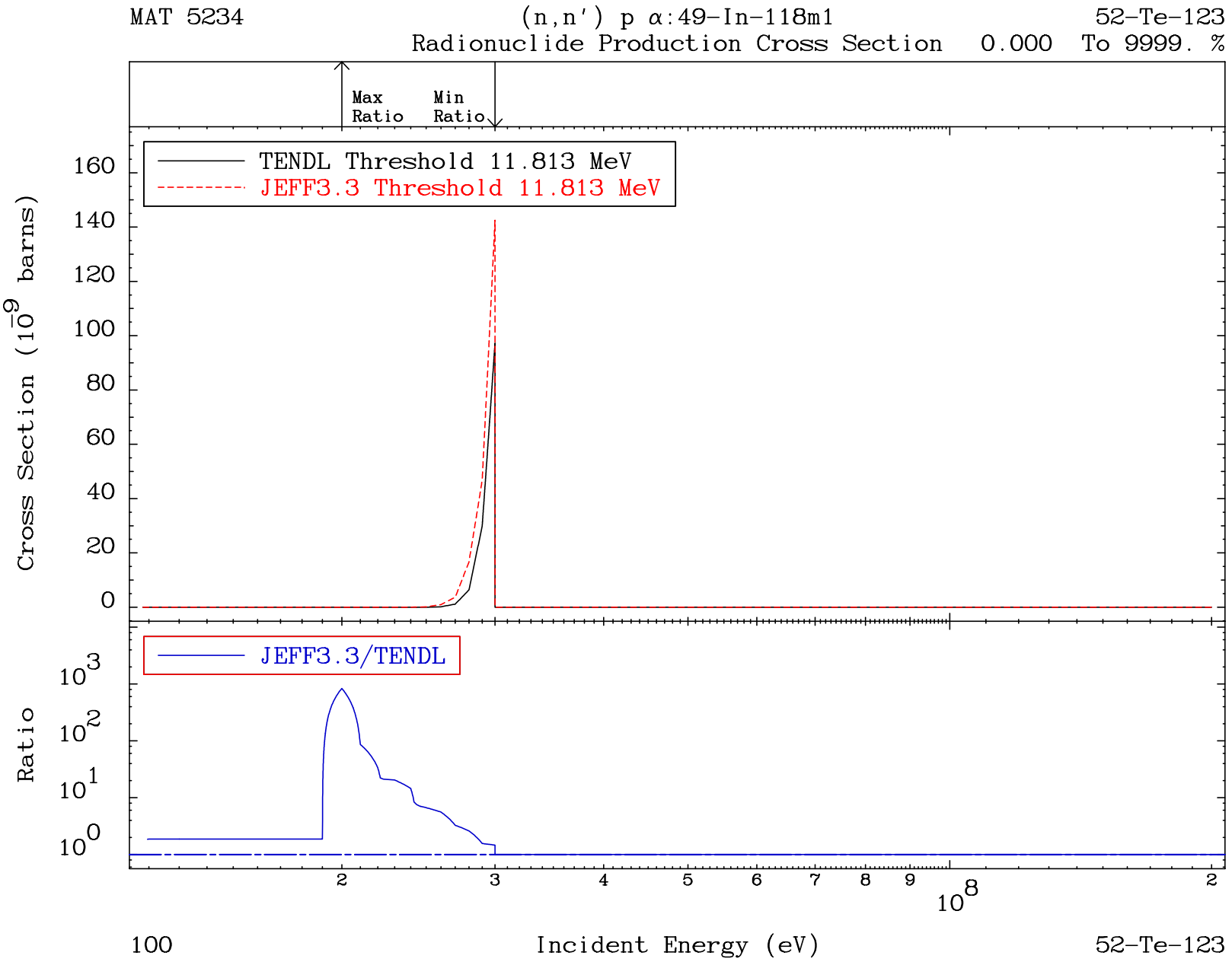

MAT 5234
(n,3n) p:51-Sb-120g
52-Te-123
Radionuclide Production Cross Section 0.000 To 9999. %
Min Ratio
TENDL Threshold 24.384 MeV
JEFF3.3 Threshold 24.384 MeV
Cross Section (micro-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
10^9
10^6
10^3
10^0
40
60
80
100
120
140
160
180
200
95
Incident Energy (MeV)
52-Te-123

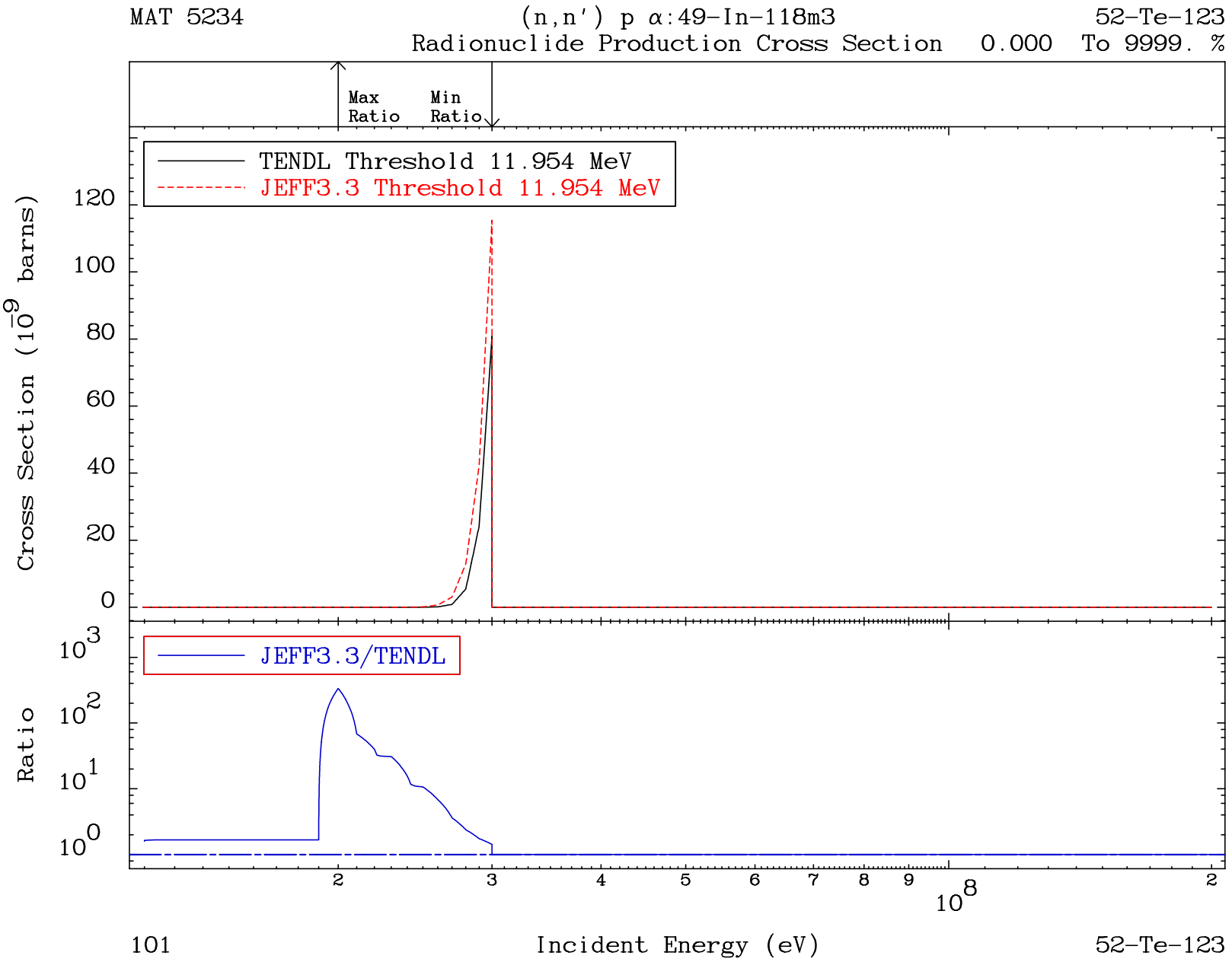

MAT 5234
(n,3n) p:51-Sb-120m6
52-Te-123
Radionuclide Production Cross Section 0.000 To 9999. %
Min Ratio
TENDL Threshold 25.000 MeV
JEFF3.3 Threshold 24.586 MeV
Cross Section (micro-barns)
0
10
20
30
40
JEFF3.3/TENDL
Ratio
10^0
10^2
10^4
40
60
80
100
120
140
160
180
200
96
Incident Energy (MeV)
52-Te-123

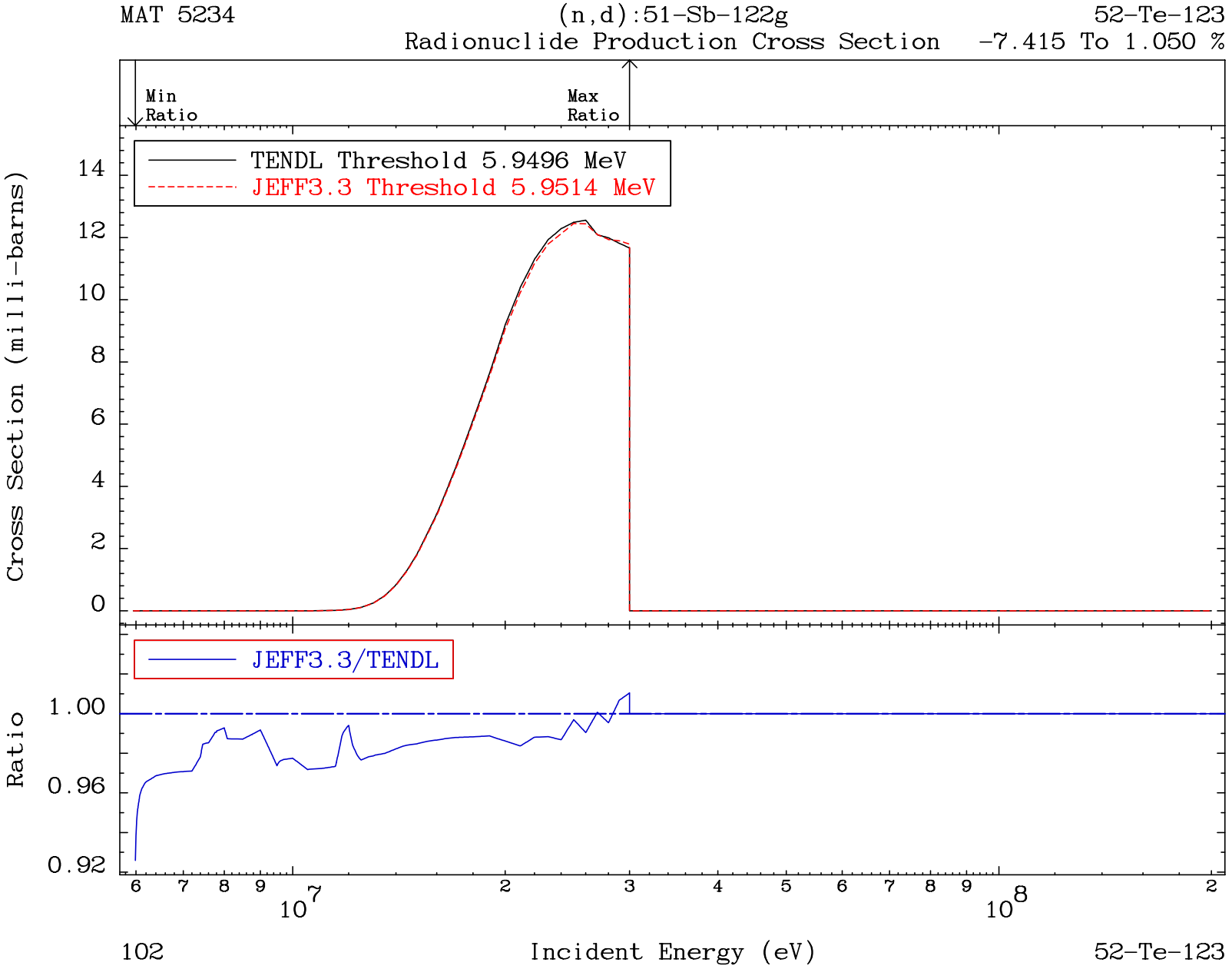

MAT 5234
(n,2n) p:50-Sn-121g
52-Te-123
Radionuclide Production Cross Section -22.01 To 1666. %
Max Ratio
Min Ratio
TENDL Threshold 14.672 MeV
JEFF3.3 Threshold 14.672 MeV
Cross Section (micro-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
97
52-Te-123

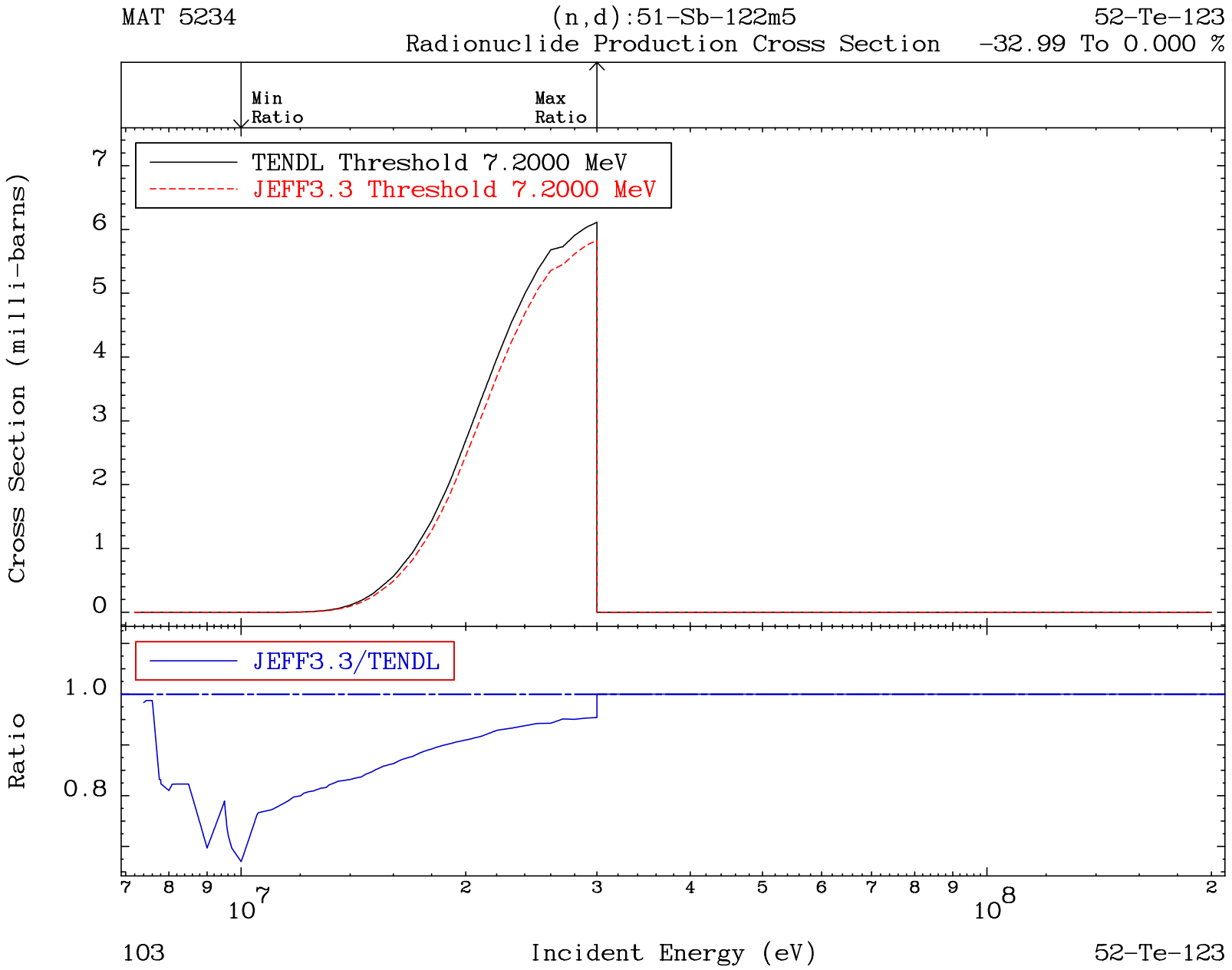

MAT 5234
(n,2n) p:50-Sn-121m1
52-Te-123
Radionuclide Production Cross Section -7.059 To 1179. %
Max Ratio
Min Ratio
TENDL Threshold 14.678 MeV
JEFF3.3 Threshold 14.678 MeV
Cross Section (micro-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
10^1
10^0
2
6
4
2
2
3
4
5
6
7
8
9
10^8
2
98
Incident Energy (eV)
52-Te-123

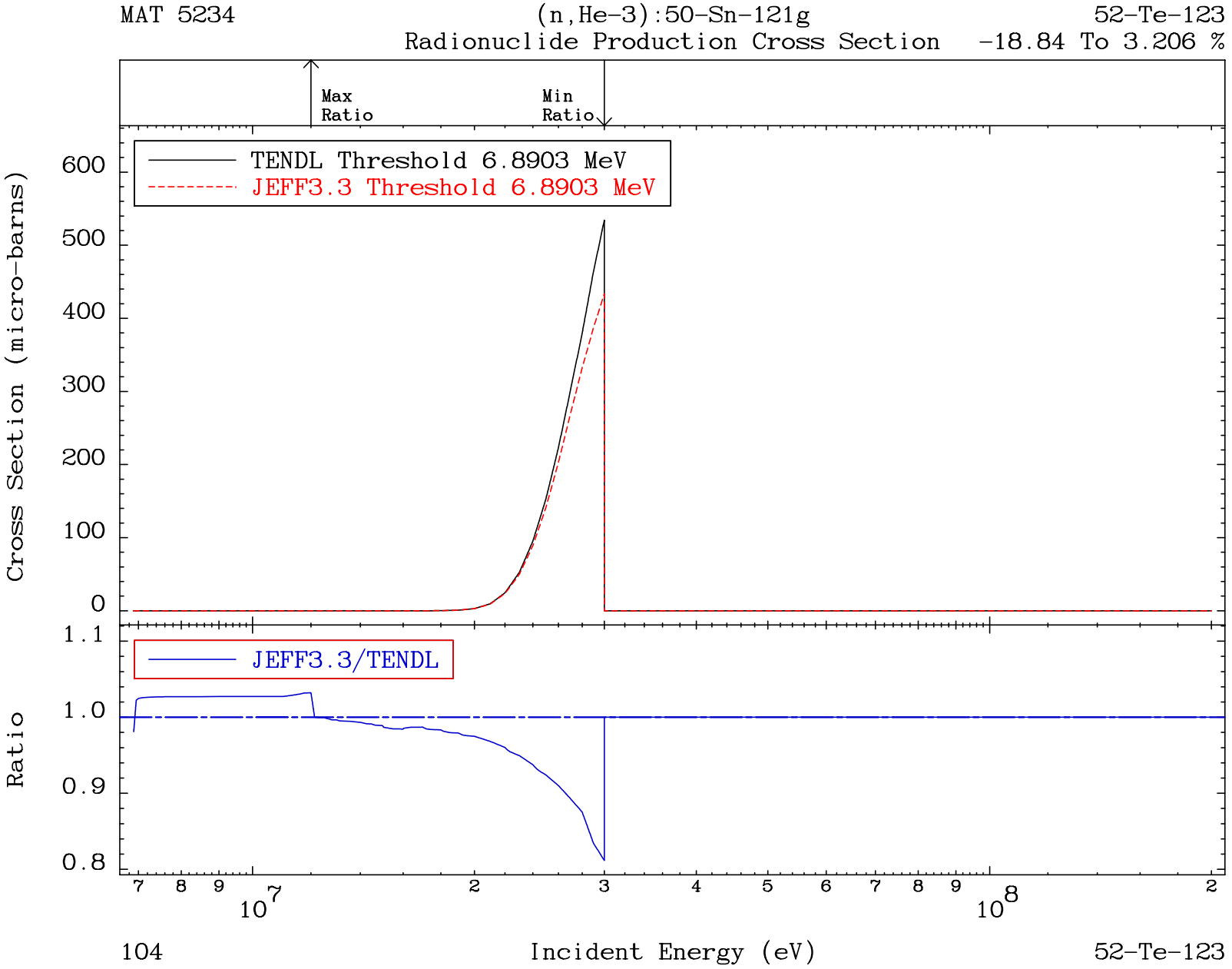

MAT 5234
(n,n') p α:49-In-118g
52-Te-123
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.752 MeV
JEFF3.3 Threshold 11.752 MeV
Cross Section (10^{-9} barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
99
Incident Energy (eV)
52-Te-123

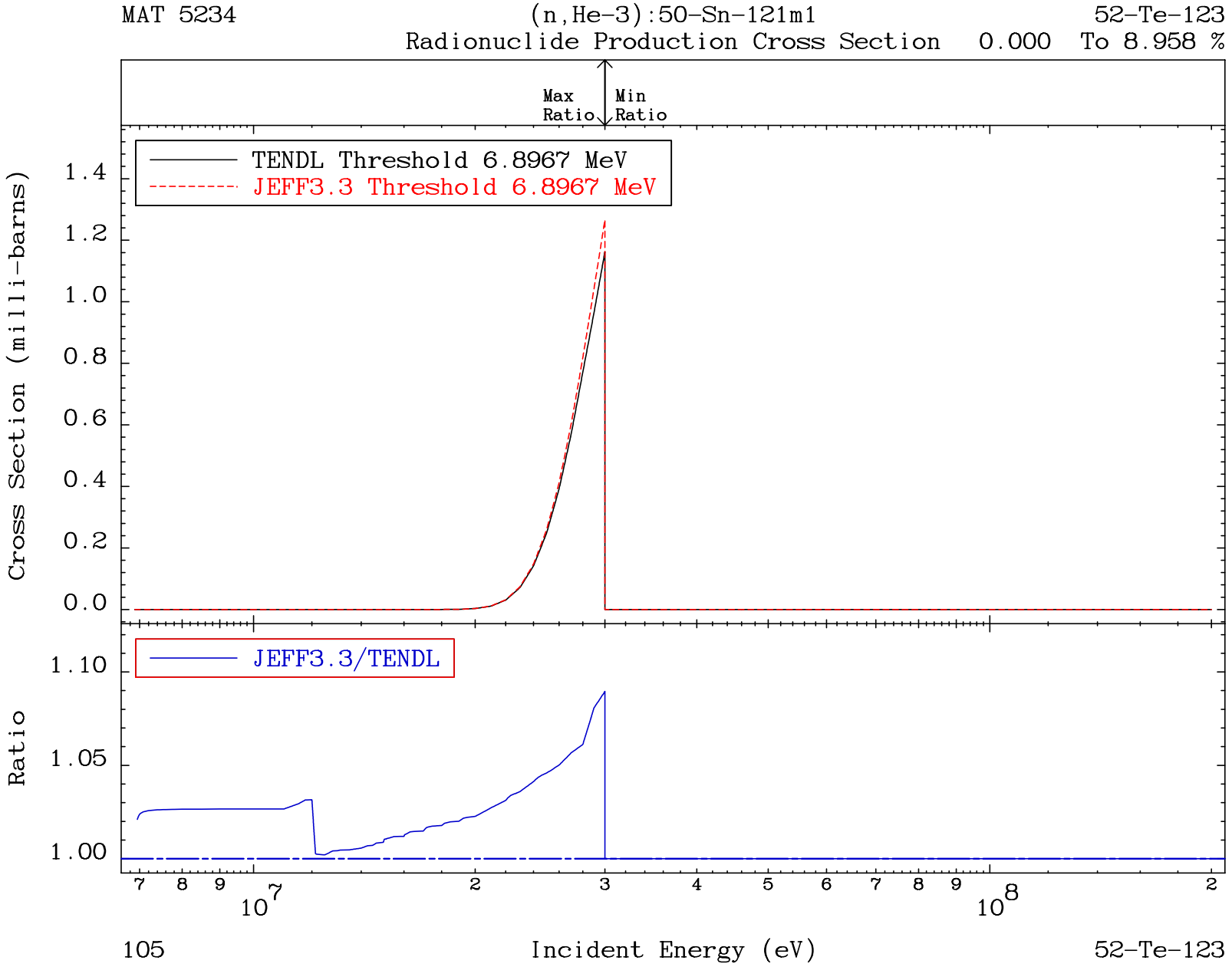

MAT 5234
(n,n') p α:49-In-118m1
52-Te-123
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.813 MeV
JEFF3.3 Threshold 11.813 MeV
Cross Section (10^{-9} barns)
160
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
100
Incident Energy (eV)
52-Te-123

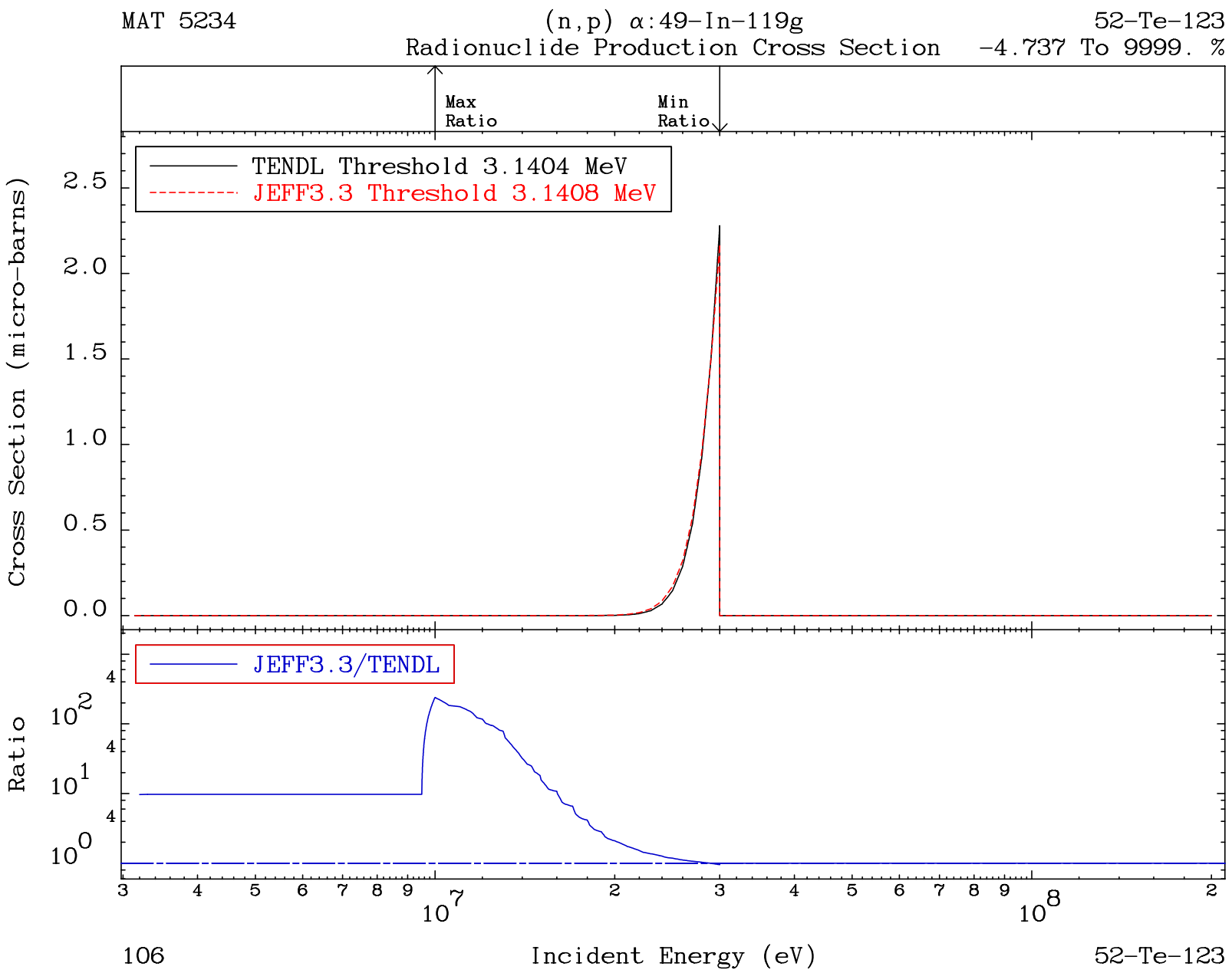

MAT 5234
(n,n') p α:49-In-118m3
52-Te-123
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.954 MeV
JEFF3.3 Threshold 11.954 MeV
Cross Section (10^{-9} barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
101
Incident Energy (eV)
52-Te-123

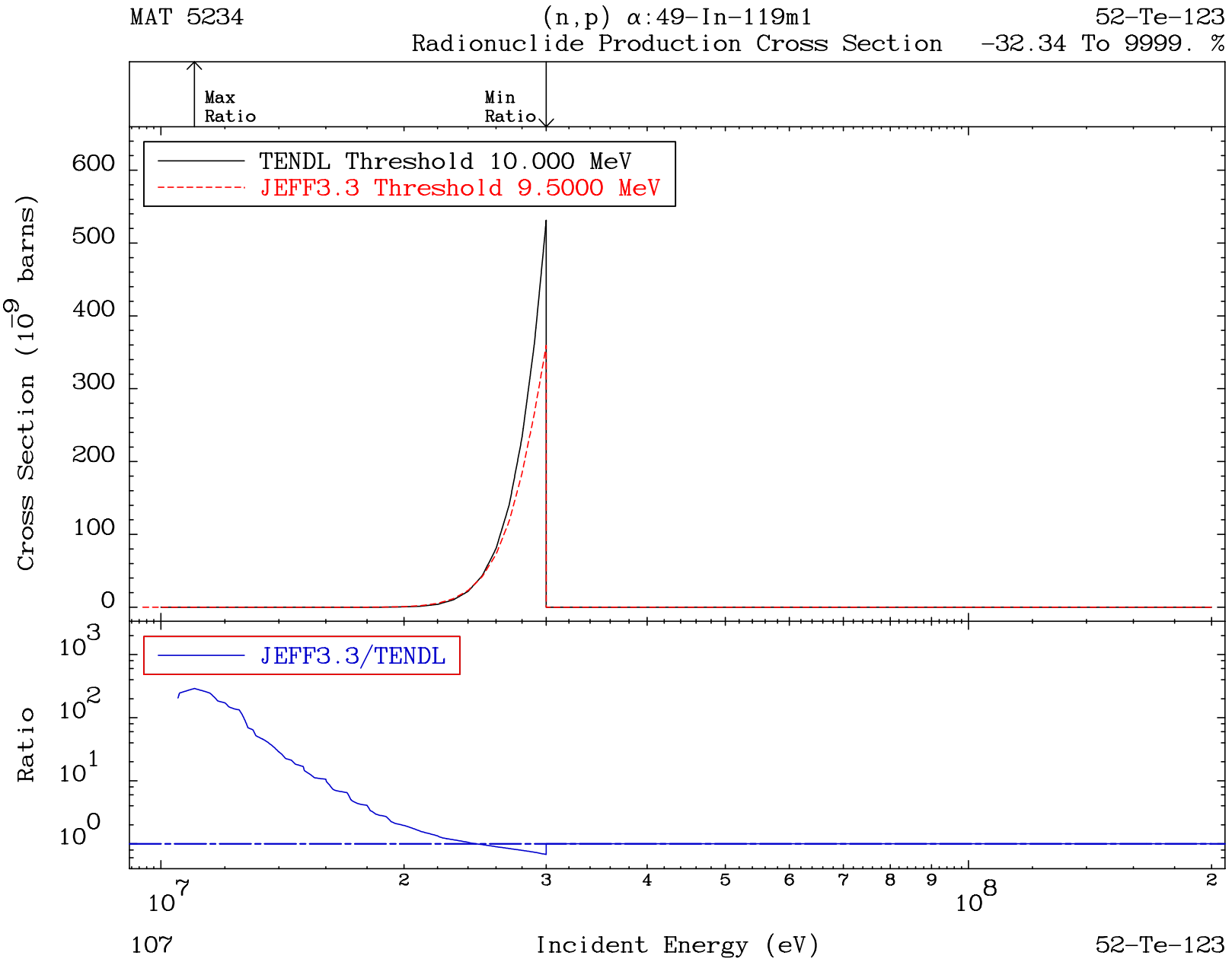

MAT 5234
(n,d):51-Sb-122g
52-Te-123
Radionuclide Production Cross Section
-7.415 To 1.050 %
Min Ratio
Max Ratio
TENDL Threshold 5.9496 MeV
JEFF3.3 Threshold 5.9514 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
JEFF3.3/TENDL
Ratio
0.92
0.96
1.00
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
102
Incident Energy (eV)
52-Te-123

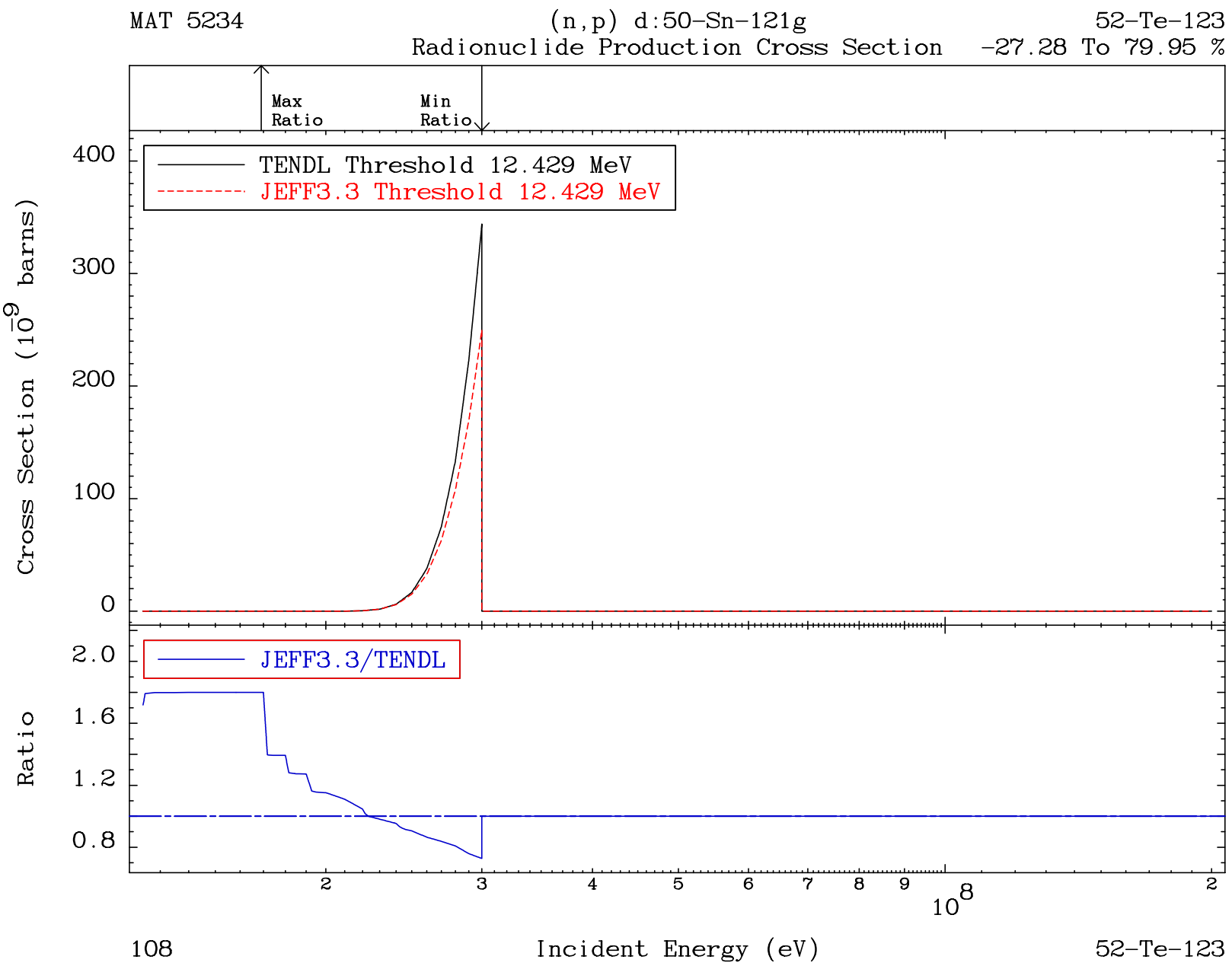

MAT 5234
(n,d):51-Sb-122m5
52-Te-123
Radionuclide Production Cross Section
-32.99 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 7.2000 MeV
JEFF3.3 Threshold 7.2000 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
103
52-Te-123

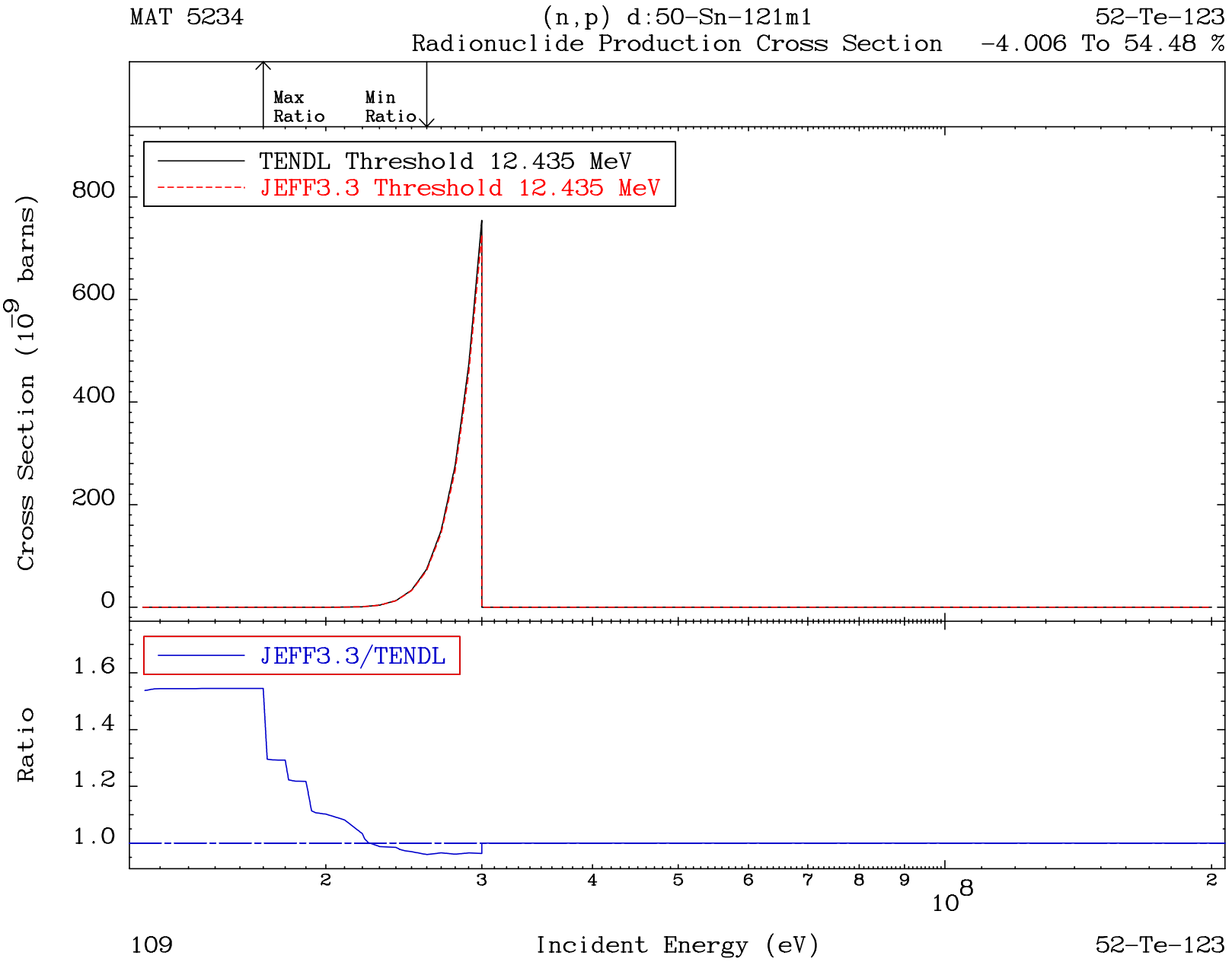

MAT 5234
(n,He-3):50-Sn-121g
52-Te-123
Radionuclide Production Cross Section -18.84 To 3.206 %
Max Ratio
Min Ratio
TENDL Threshold 6.8903 MeV
JEFF3.3 Threshold 6.8903 MeV
Cross Section (micro-barns)
600
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
0.8
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
104
Incident Energy (eV)
52-Te-123

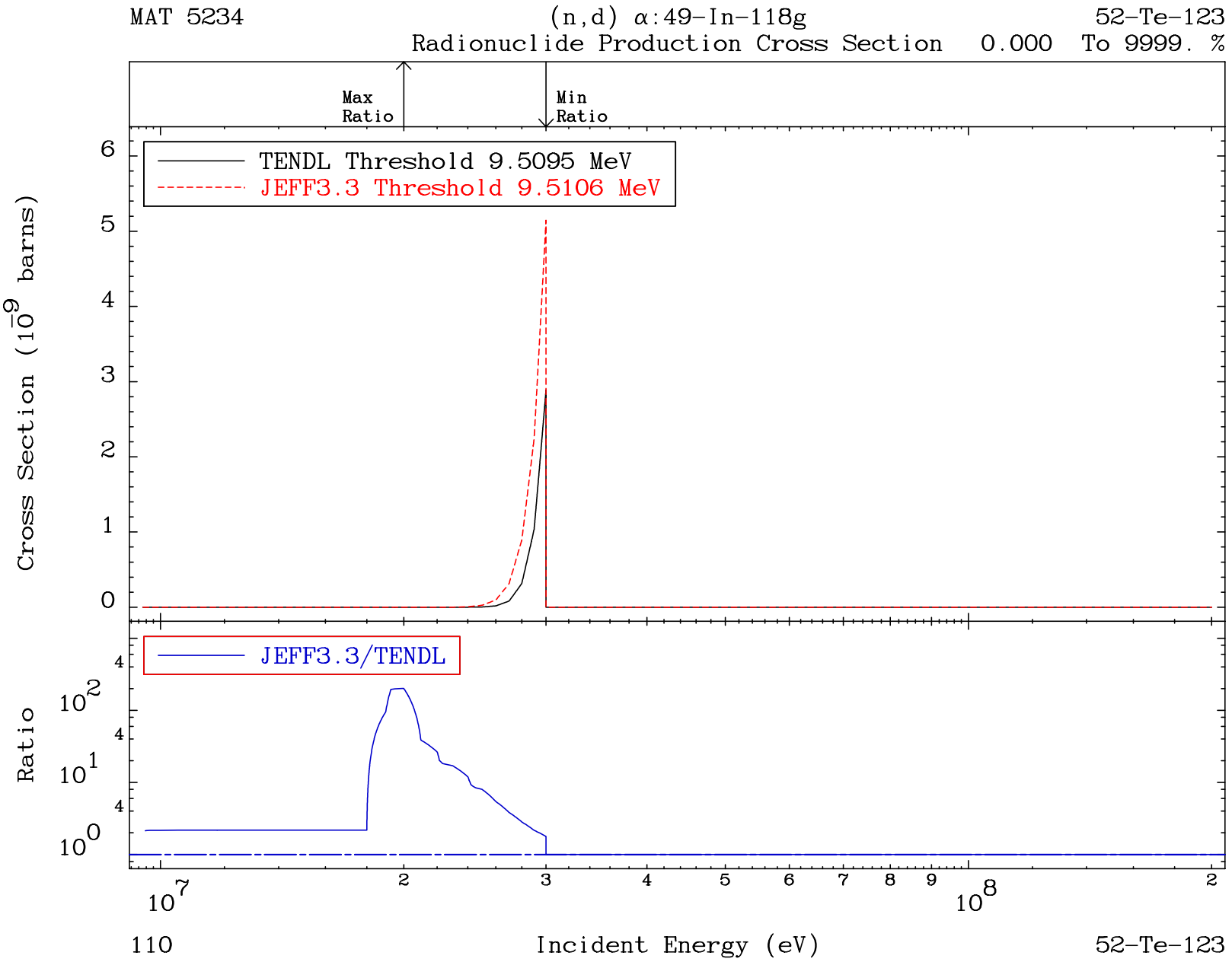

MAT 5234
(n,He-3):50-Sn-121m1
52-Te-123
Radionuclide Production Cross Section 0.000 To 8.958 %
Max Ratio
Min Ratio
TENDL Threshold 6.8967 MeV
JEFF3.3 Threshold 6.8967 MeV
Cross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
105
Incident Energy (eV)
52-Te-123

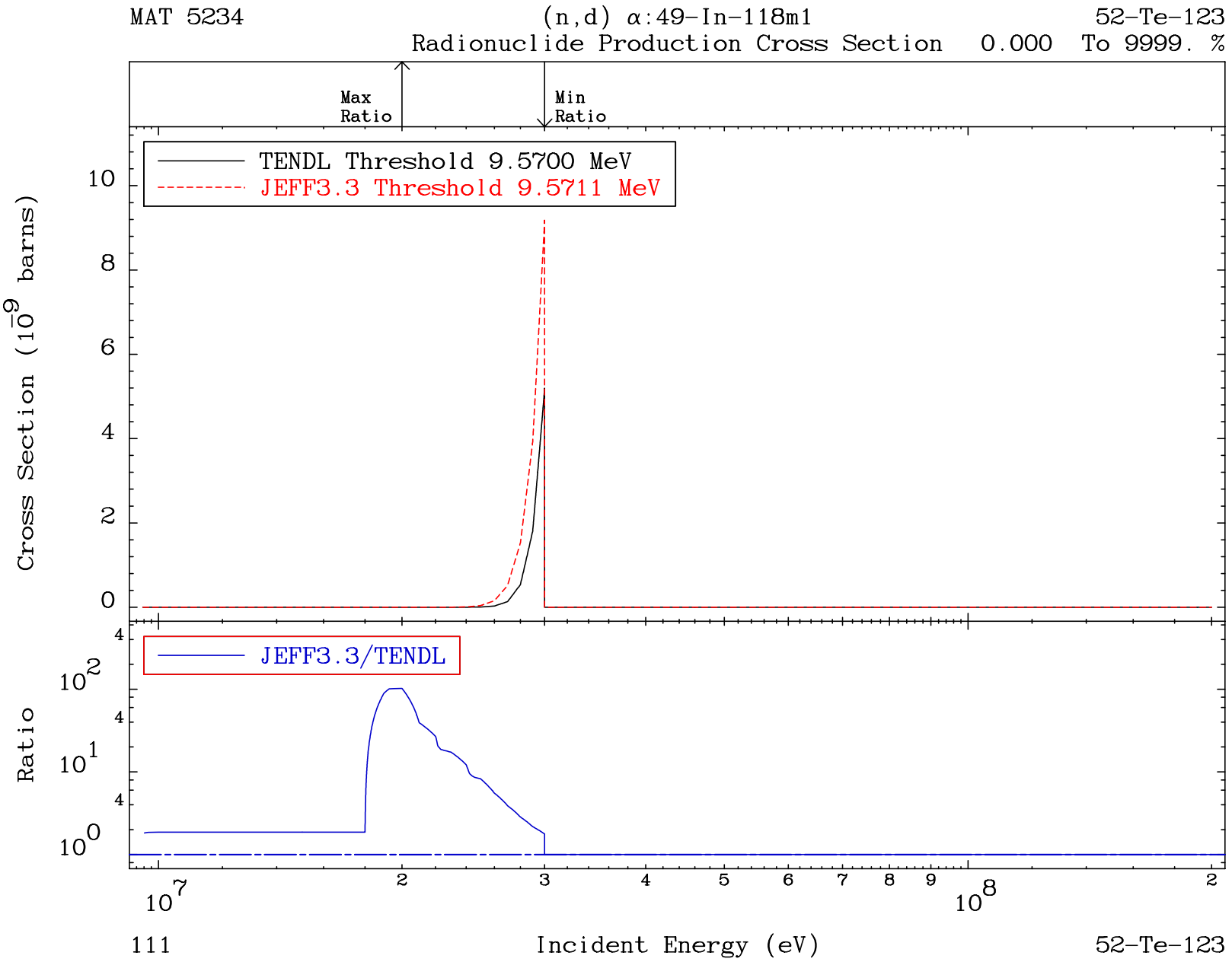

MAT 5234
(n,p) α:49-In-119g
52-Te-123
Radionuclide Production Cross Section -4.737 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.1404 MeV
JEFF3.3 Threshold 3.1408 MeV
Cross Section (micro-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^2
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
106
Incident Energy (eV)
52-Te-123

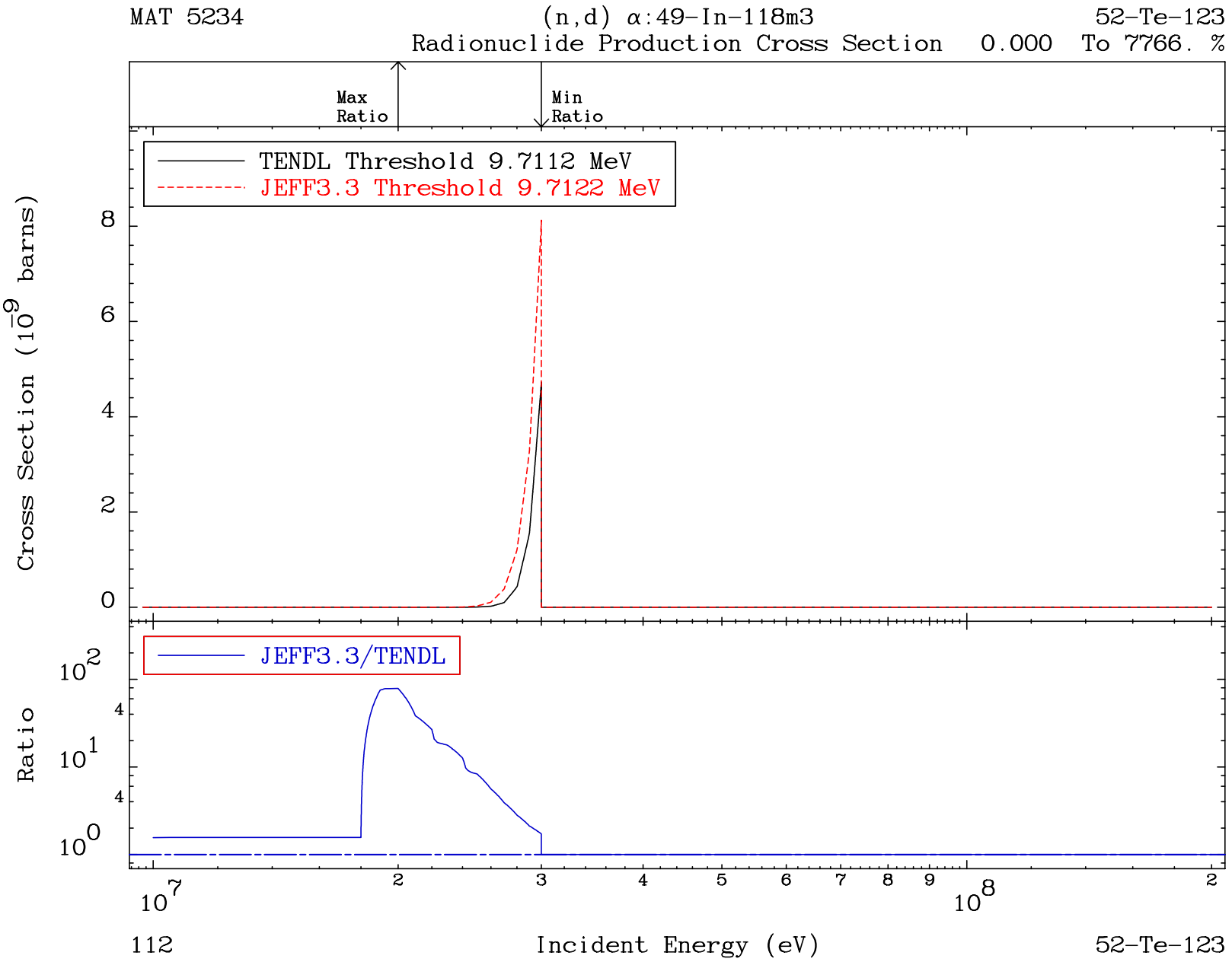

MAT 5234
(n,p) α:49-In-119m1
52-Te-123
Radionuclide Production Cross Section -32.34 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 10.000 MeV
JEFF3.3 Threshold 9.5000 MeV
Cross Section (10^{-9} barns)
600
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
10^7
2
3
4
5
6
7
8
9
10^8
2
107
Incident Energy (eV)
52-Te-123


MAT 5234
(n,p) d:50-Sn-121g
52-Te-123
Radionuclide Production Cross Section
-27.28 To 79.95 %
Max Ratio
Min Ratio
TENDL Threshold 12.429 MeV
JEFF3.3 Threshold 12.429 MeV
Cross Section (10^{-9} barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
2.0
1.6
1.2
0.8
2
3
4
5
6
7
8
9
10^8
2
108
Incident Energy (eV)
52-Te-123


MAT 5234
(n,p) d:50-Sn-121m1
52-Te-123
Radionuclide Production Cross Section
-4.006 To 54.48 %
Max Ratio
Min Ratio
TENDL Threshold 12.435 MeV
JEFF3.3 Threshold 12.435 MeV
Cross Section (10^{-9} barns)
800
600
400
200
0
JEFF3.3/TENDL
Ratio
1.6
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
109
Incident Energy (eV)
52-Te-123


MAT 5234
(n,d) α:49-In-118g
52-Te-123
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 9.5095 MeV
JEFF3.3 Threshold 9.5106 MeV
Cross Section (10^{-9} barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
110
52-Te-123


MAT 5234
(n,d) α:49-In-118m1
52-Te-123
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 9.5700 MeV
JEFF3.3 Threshold 9.5711 MeV
Cross Section (10^{-9} barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
111
52-Te-123


MAT 5234
(n,d) α:49-In-118m3
52-Te-123
Radionuclide Production Cross Section 0.000 To 7766. %
Max Ratio
Min Ratio
TENDL Threshold 9.7112 MeV
JEFF3.3 Threshold 9.7122 MeV
Cross Section (10^{-9} barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
112
52-Te-123