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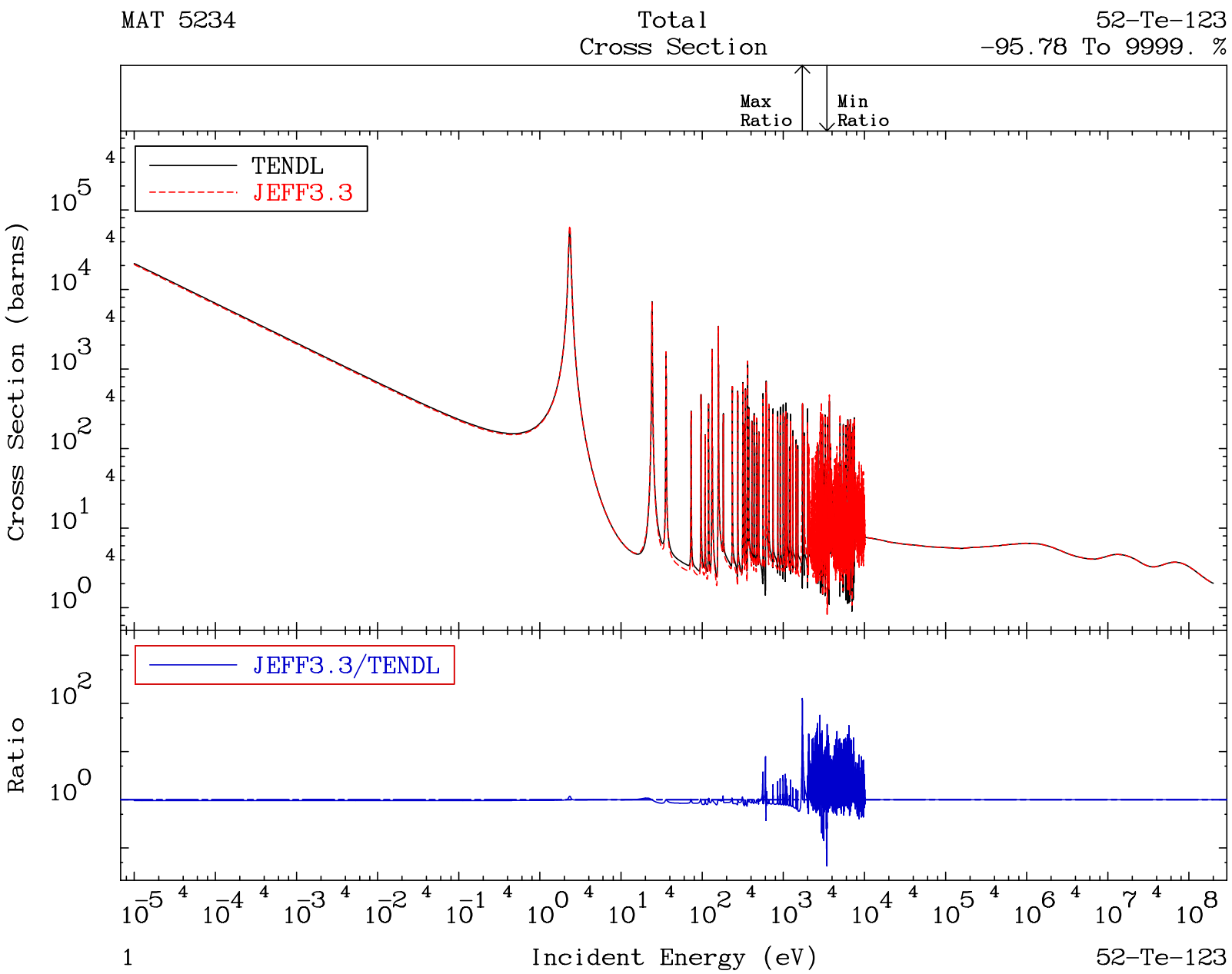
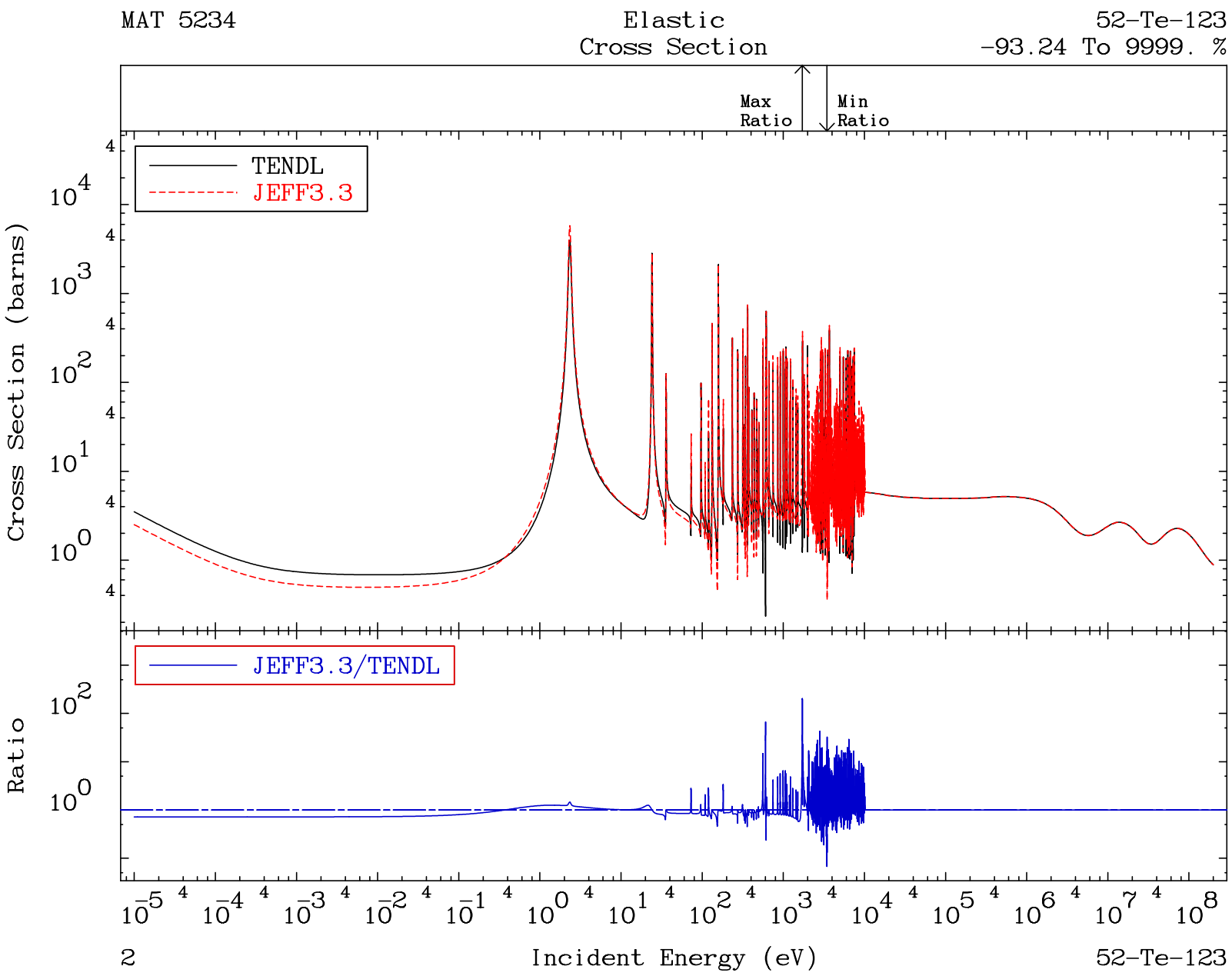
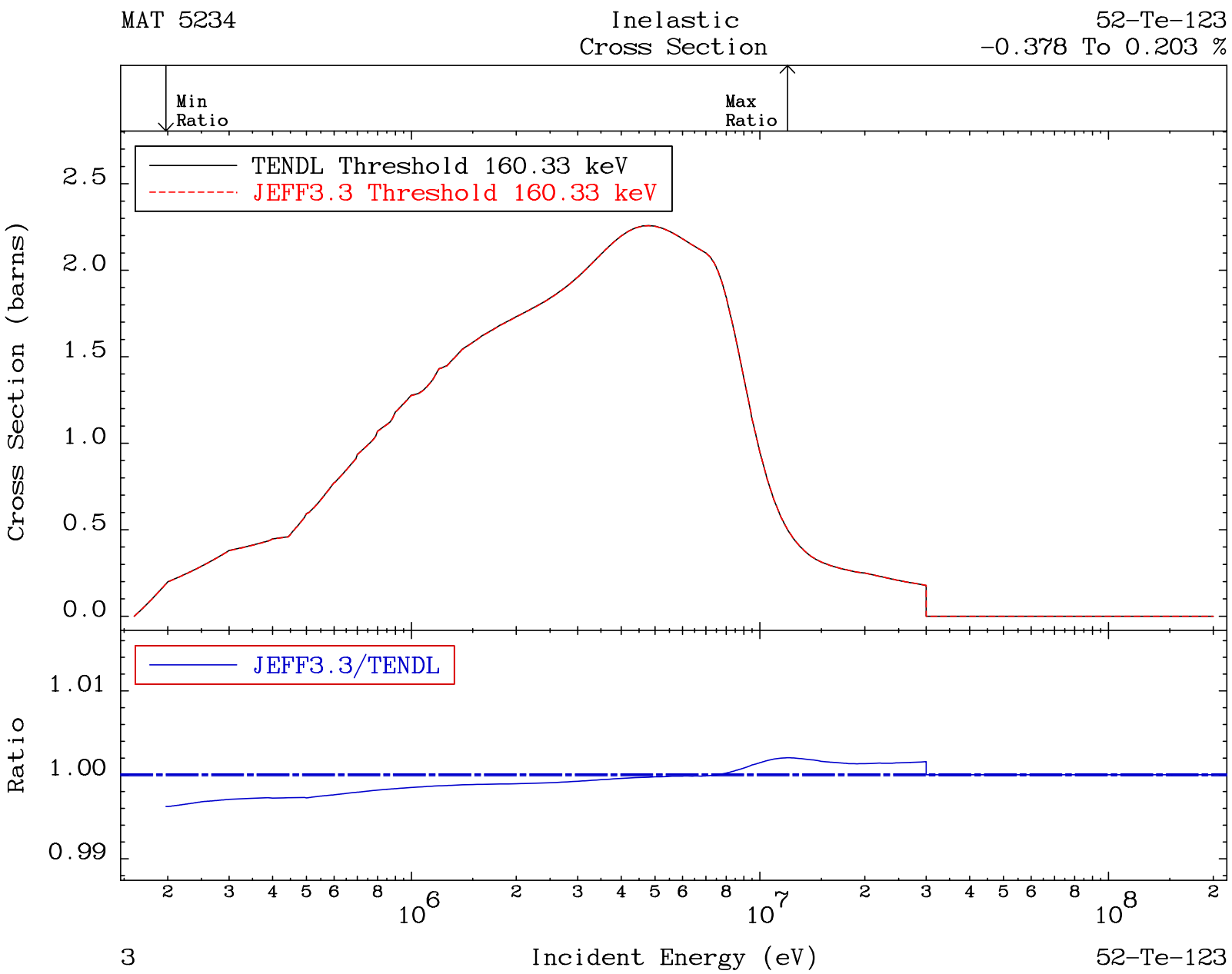
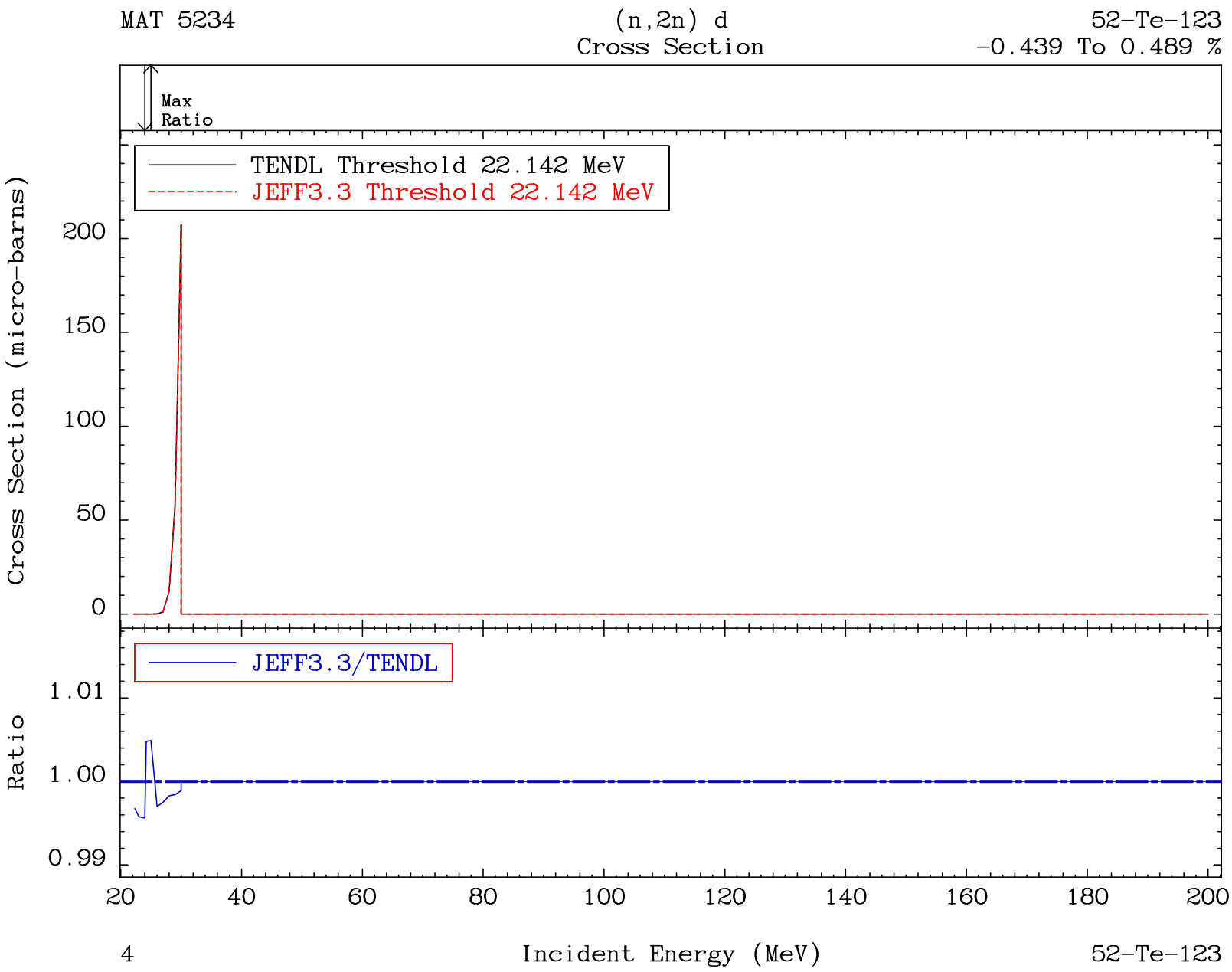
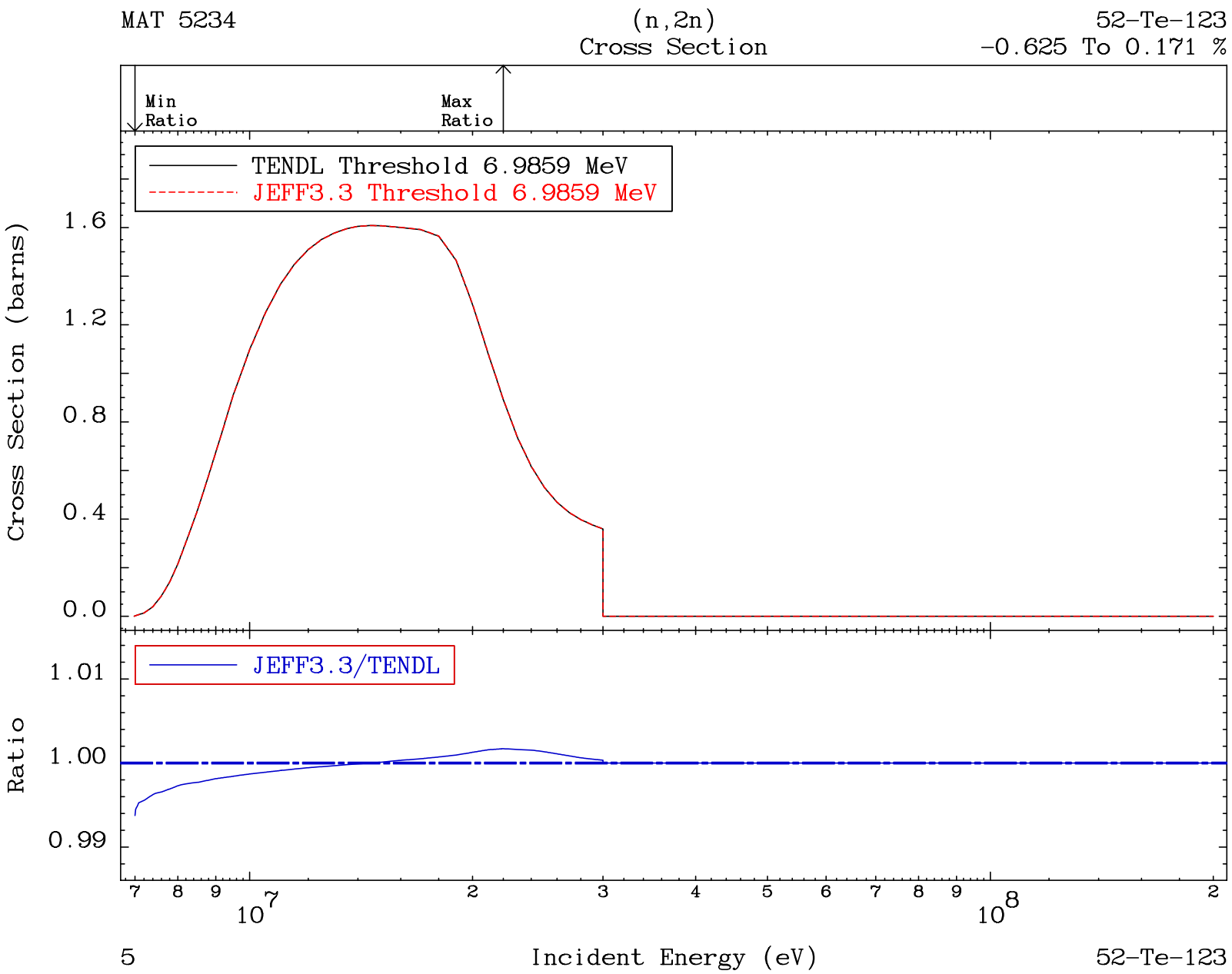
Press Mouse Button to Start

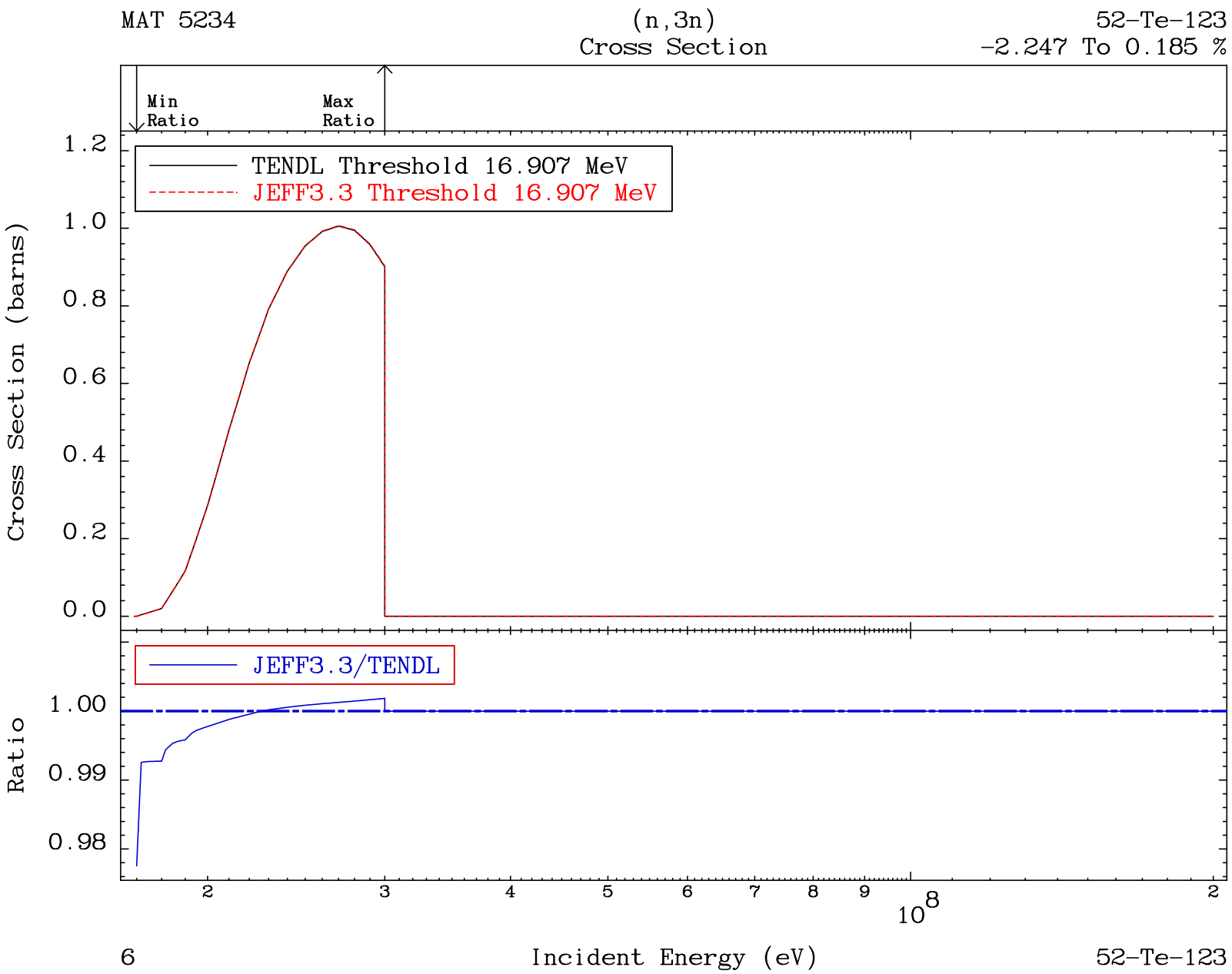

MAT 5234
Total
Cross Section
52-Te-123
-95.78 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
1
52-Te-123

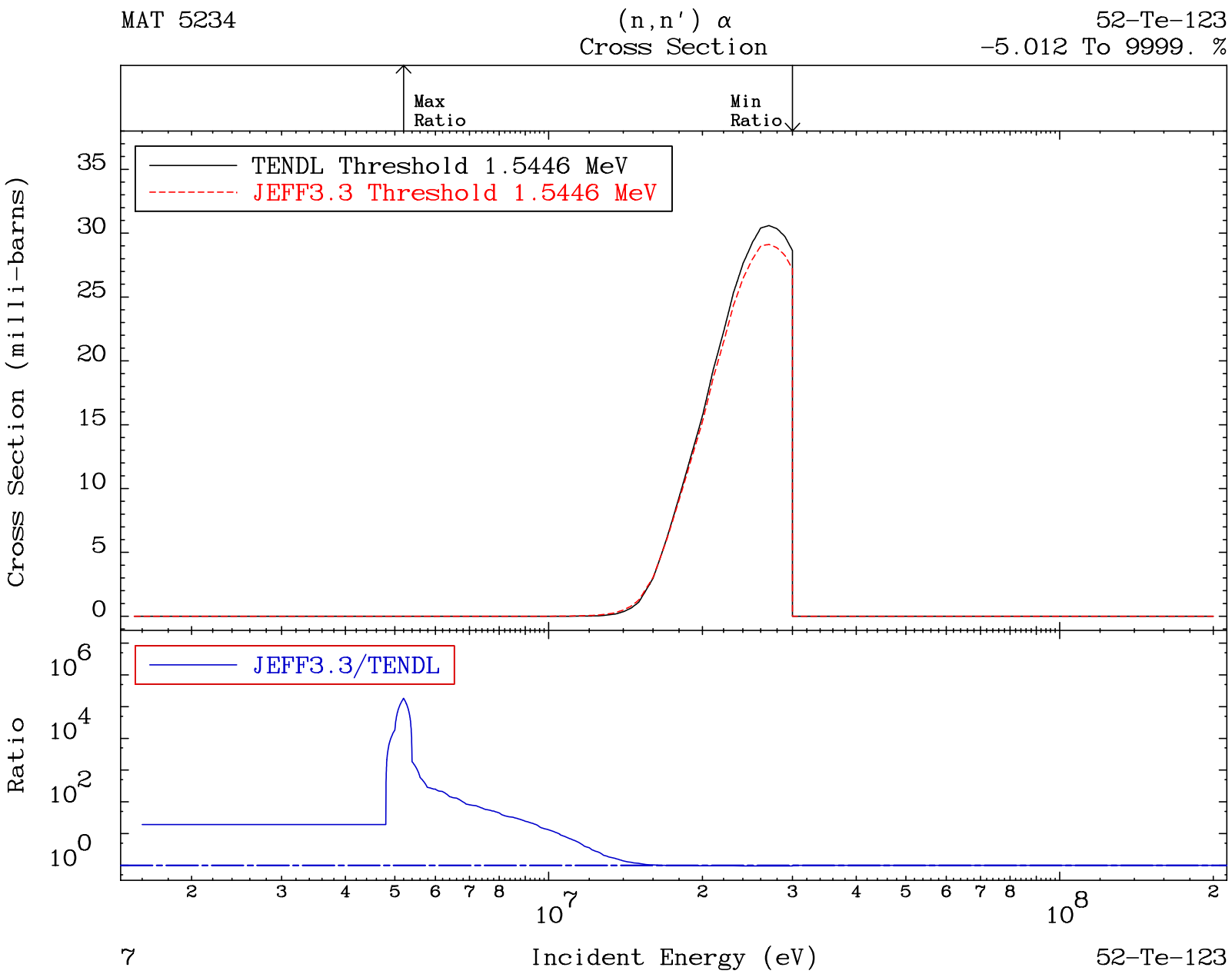

MAT 5234
Elastic
Cross Section
52-Te-123
-93.24 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
52-Te-123
2

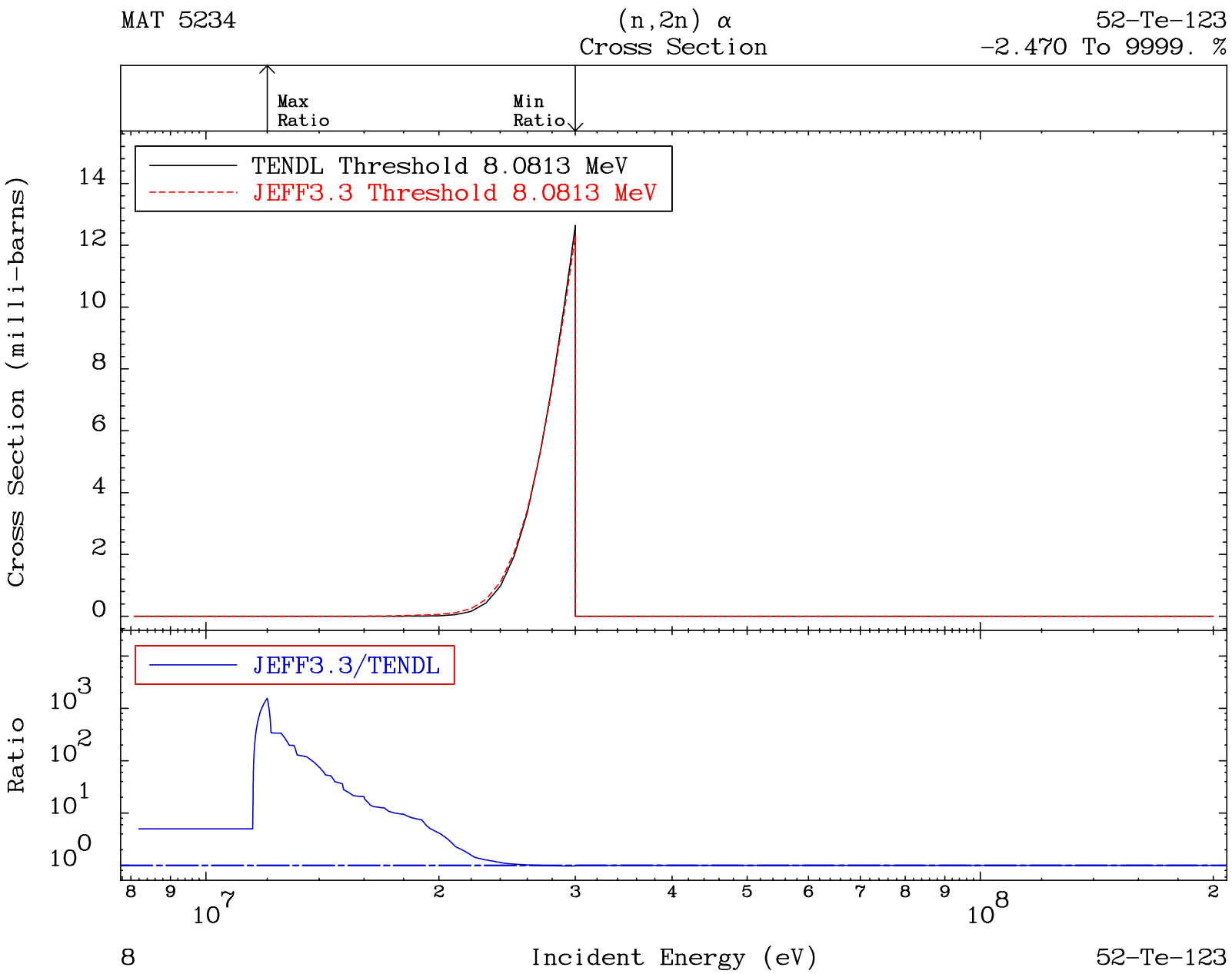

MAT 5234
Inelastic
Cross Section
52-Te-123
-0.378 To 0.203 %
Min
Ratio
Max
Ratio
TENDL Threshold 160.33 keV
JEFF3.3 Threshold 160.33 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
52-Te-123

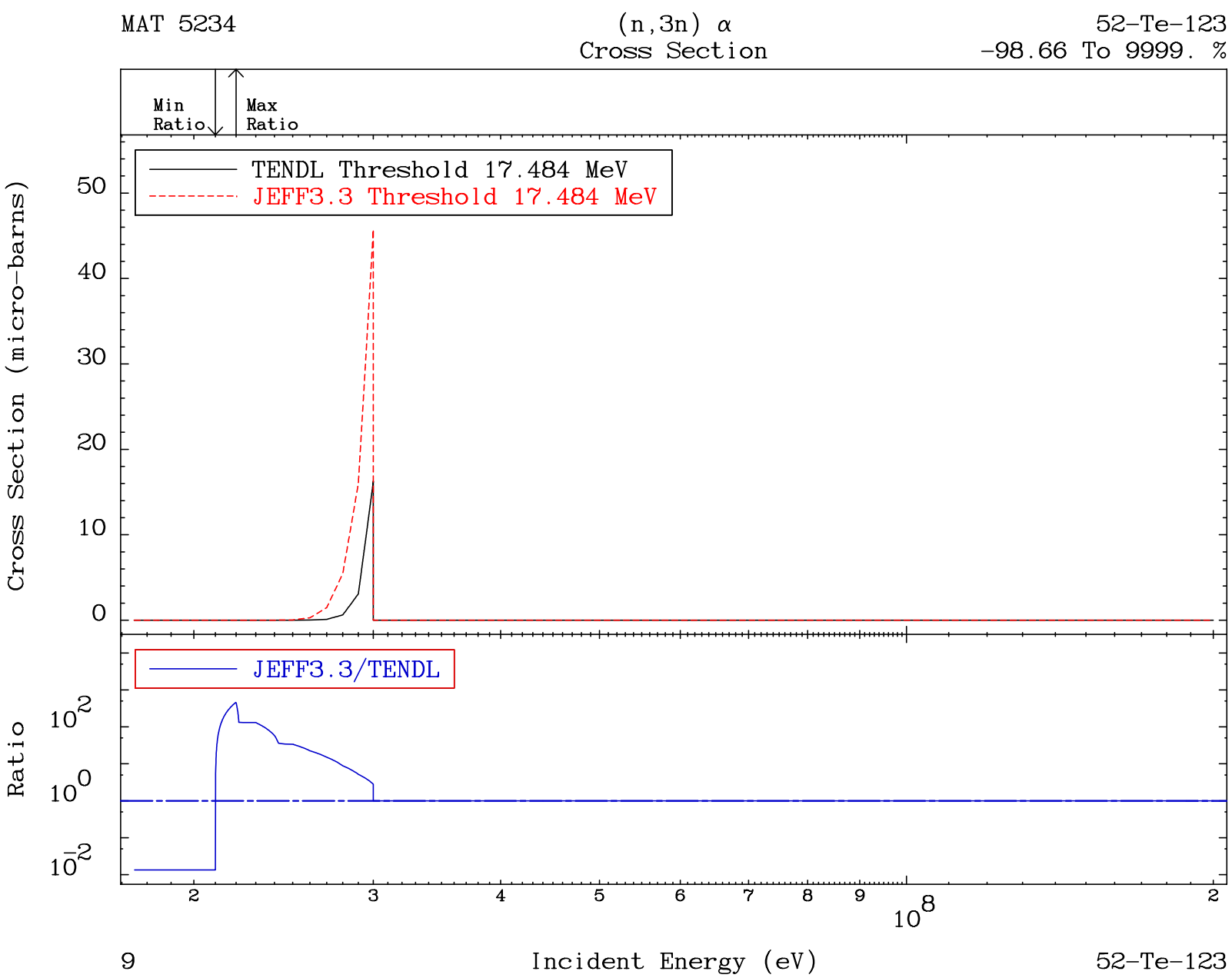

MAT 5234
(n,2n) d
Cross Section
52-Te-123
-0.439 To 0.489 %
Max
Ratio
TENDL Threshold 22.142 MeV
JEFF3.3 Threshold 22.142 MeV
Cross Section (micro-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
20
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
52-Te-123

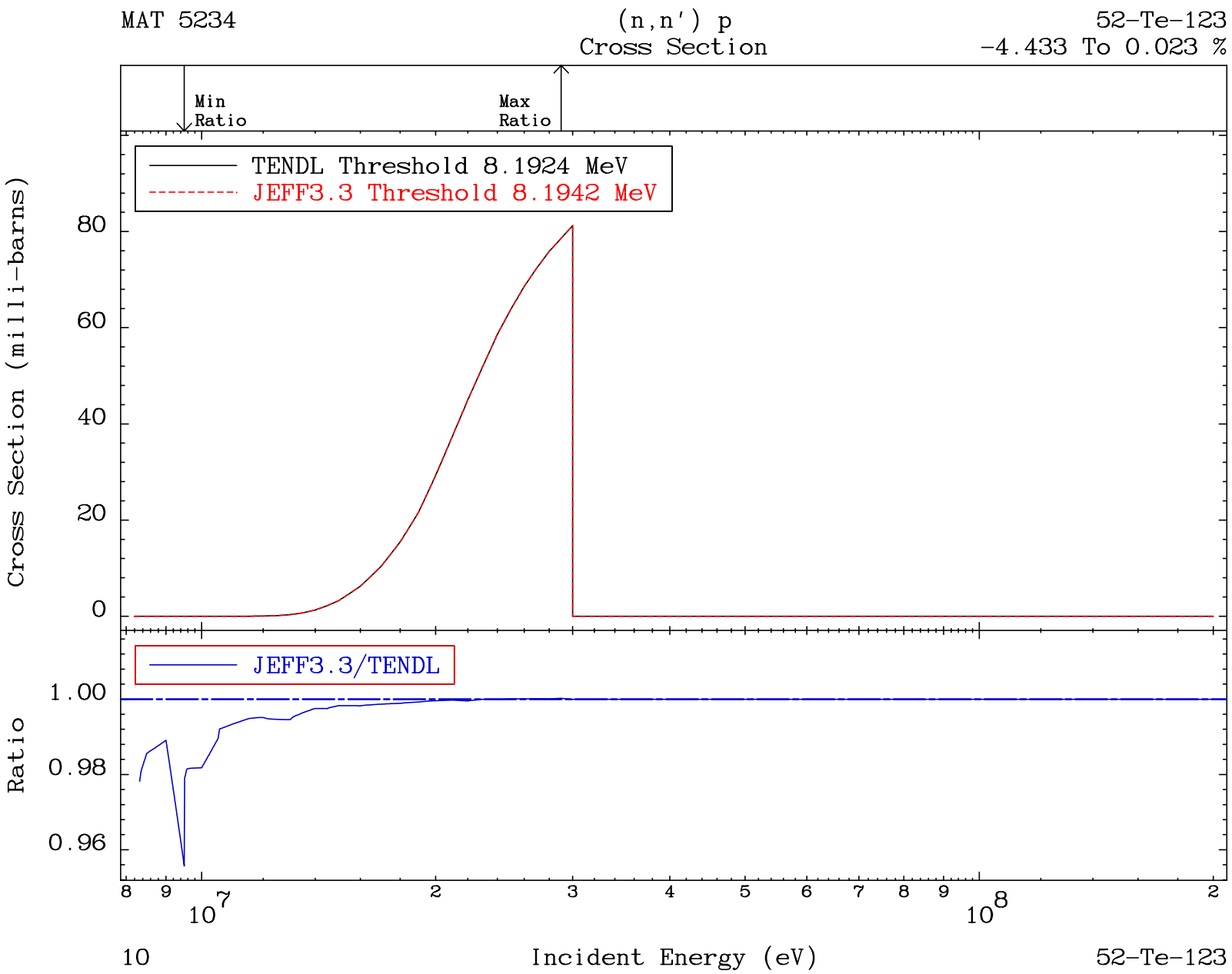

MAT 5234
(n,2n)
Cross Section
52-Te-123
-0.625 To 0.171 %
Min Ratio
Max Ratio
TENDL Threshold 6.9859 MeV
JEFF3.3 Threshold 6.9859 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
52-Te-123

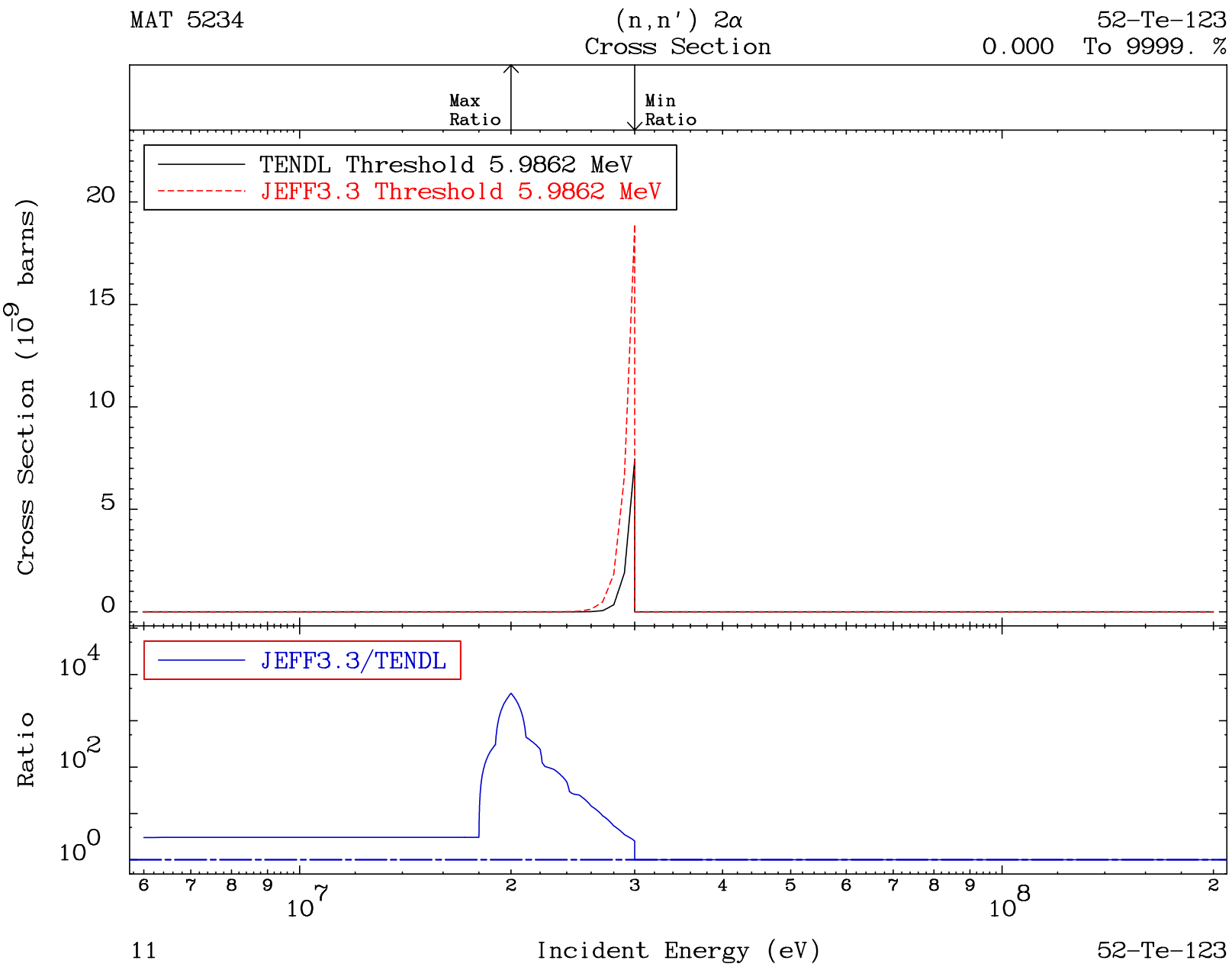

MAT 5234
(n,3n)
Cross Section
52-Te-123
-2.247 To 0.185 %
Min Ratio
Max Ratio
TENDL Threshold 16.907 MeV
JEFF3.3 Threshold 16.907 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
52-Te-123

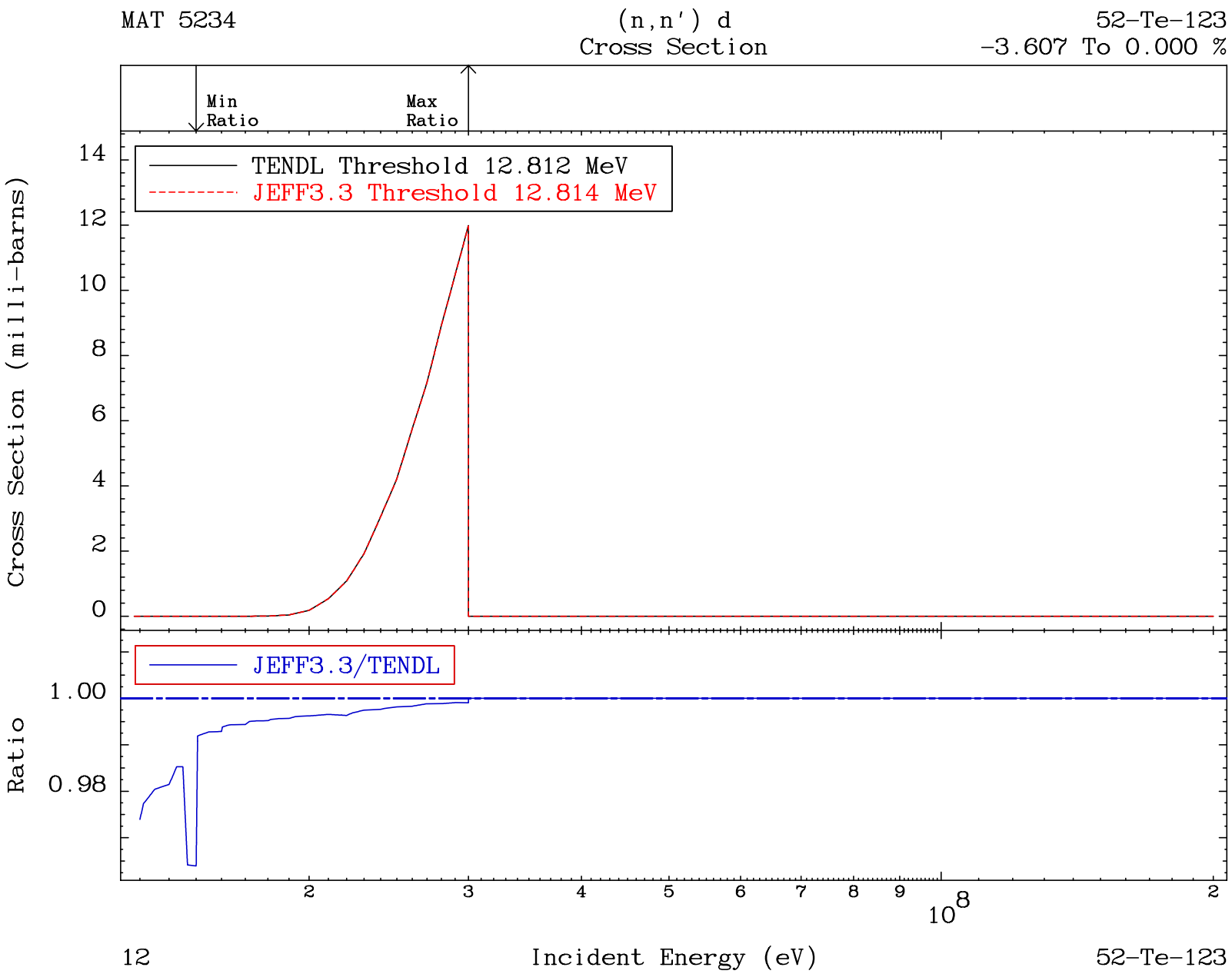

MAT 5234
(n,n') α
Cross Section
52-Te-123
-5.012 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.5446 MeV
JEFF3.3 Threshold 1.5446 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^6
10^4
10^2
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
7
Incident Energy (eV)
52-Te-123

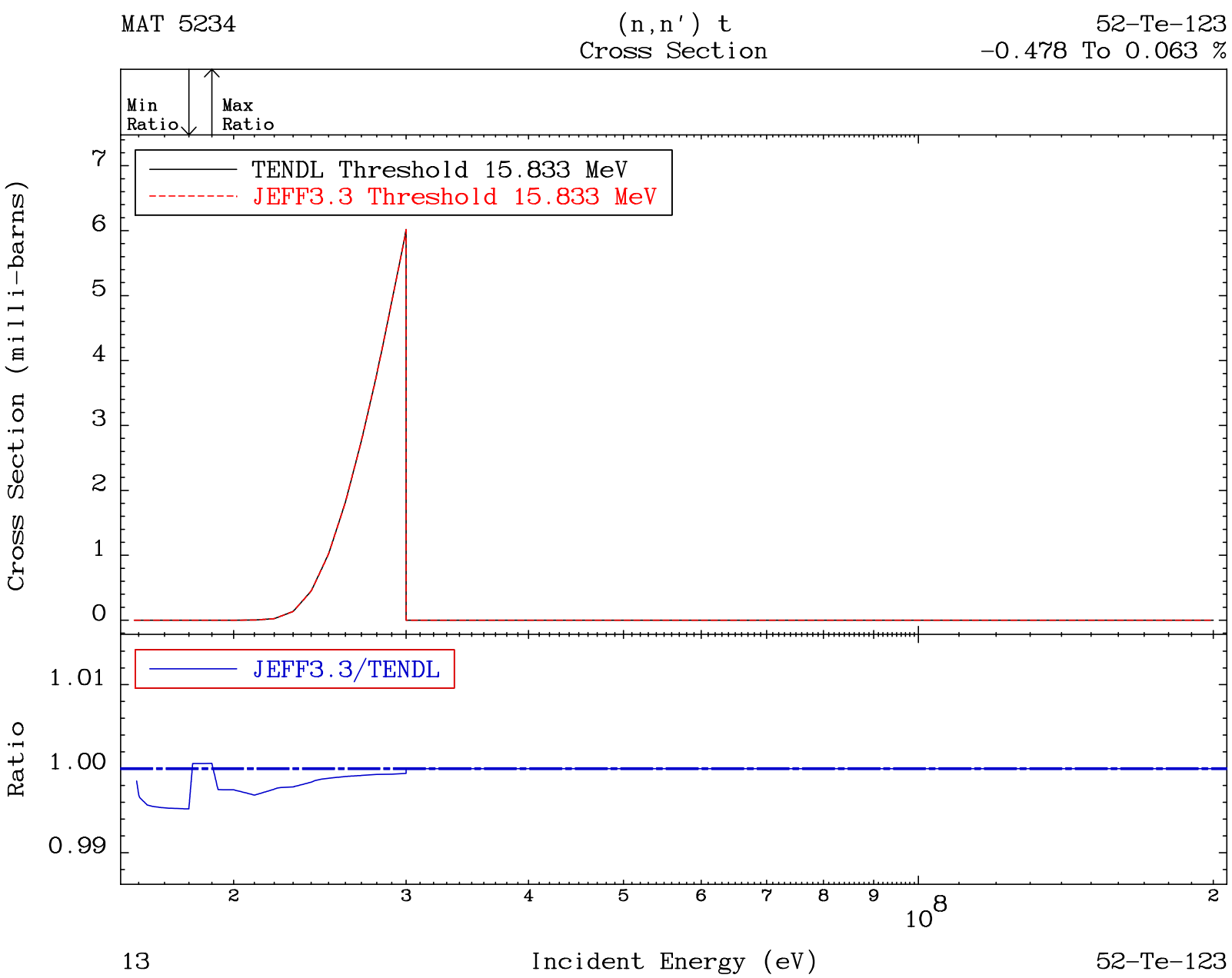

MAT 5234
(n,2n) α
Cross Section
52-Te-123
-2.470 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 8.0813 MeV
JEFF3.3 Threshold 8.0813 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
8
52-Te-123

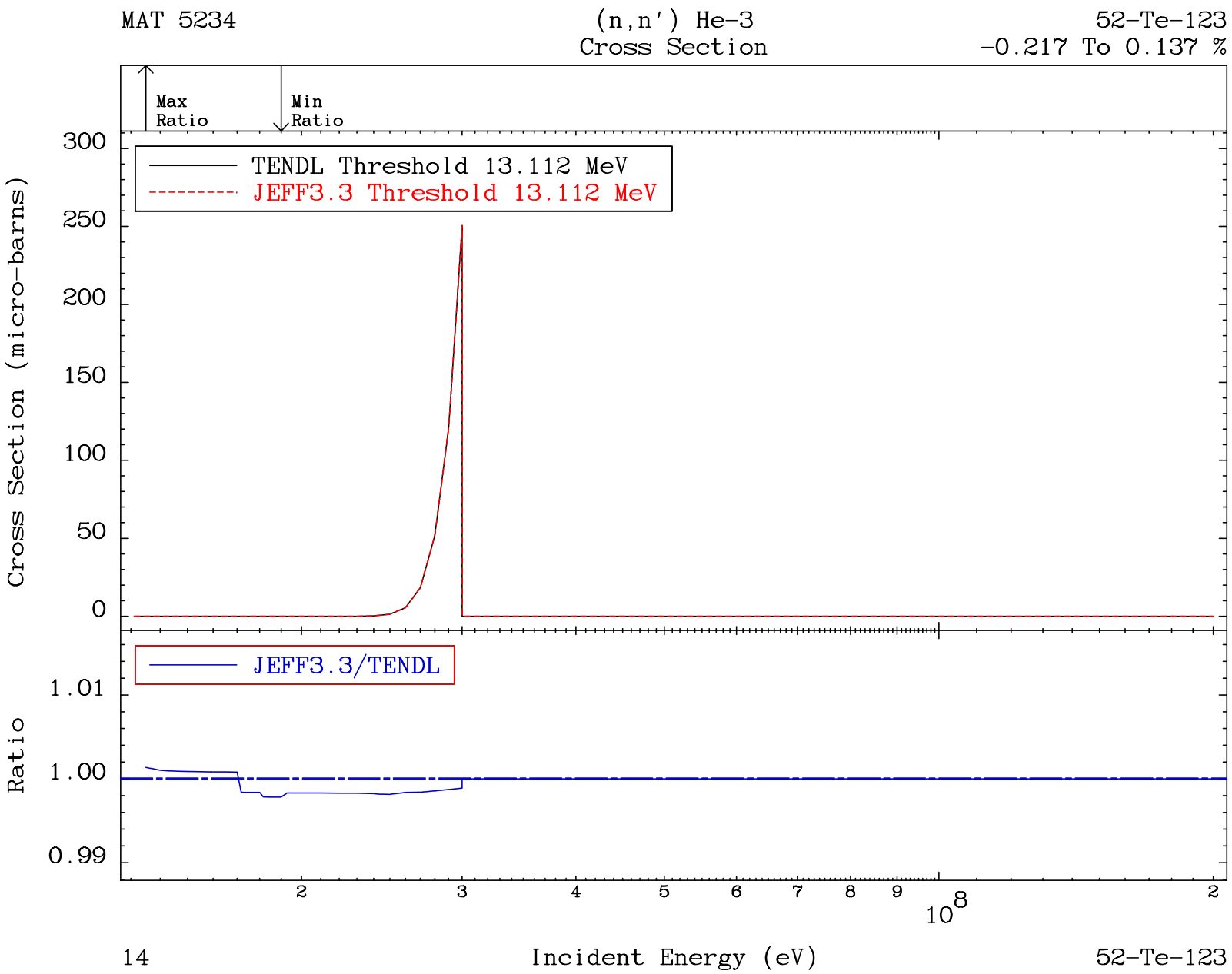

MAT 5234
(n,3n) α
Cross Section
52-Te-123
-98.66 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 17.484 MeV
JEFF3.3 Threshold 17.484 MeV
Cross Section (micro-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
52-Te-123

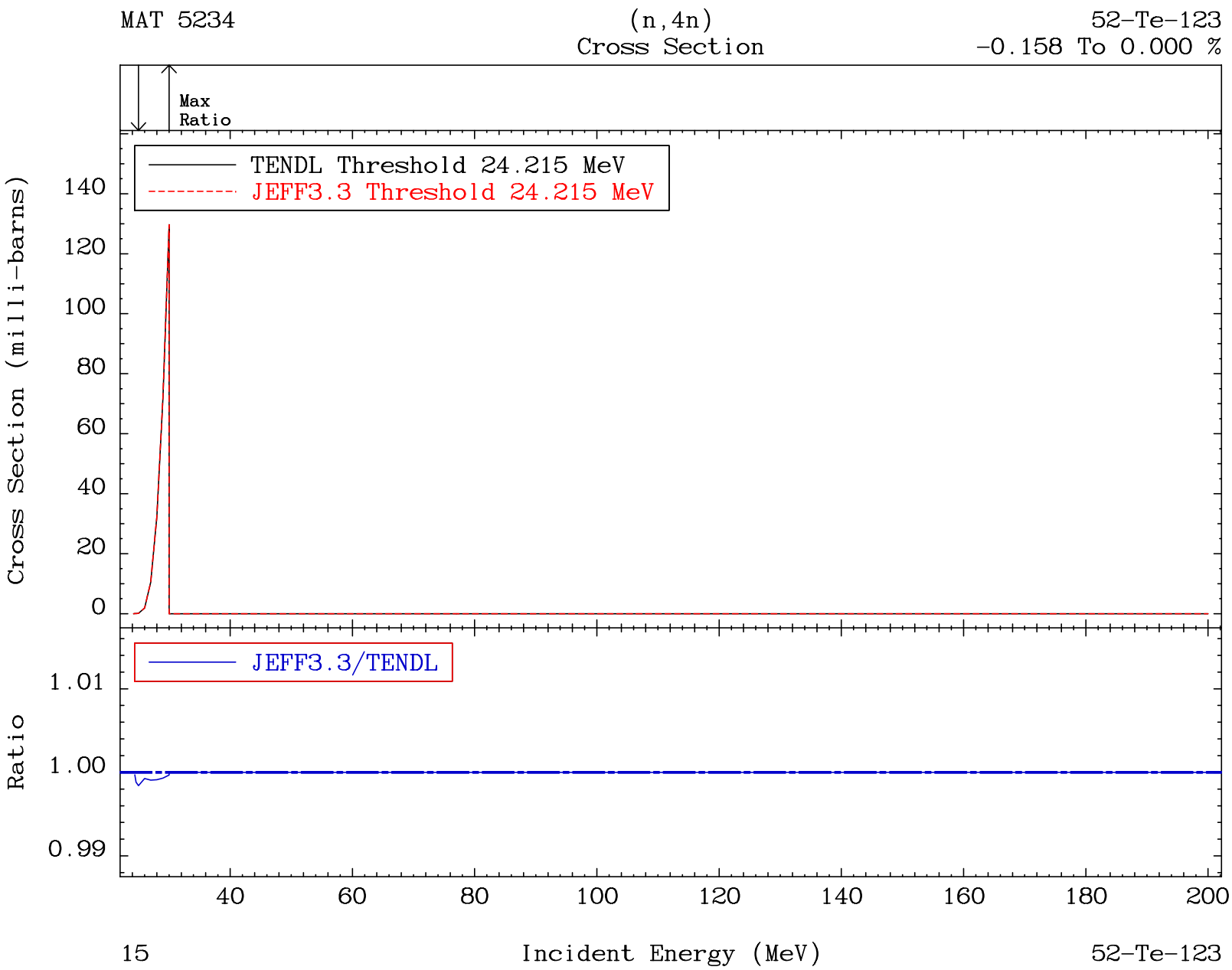

MAT 5234
(n,n') p
Cross Section
52-Te-123
-4.433 To 0.023 %
Min Ratio
Max Ratio
TENDL Threshold 8.1924 MeV
JEFF3.3 Threshold 8.1942 MeV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.00
0.98
0.96
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
52-Te-123

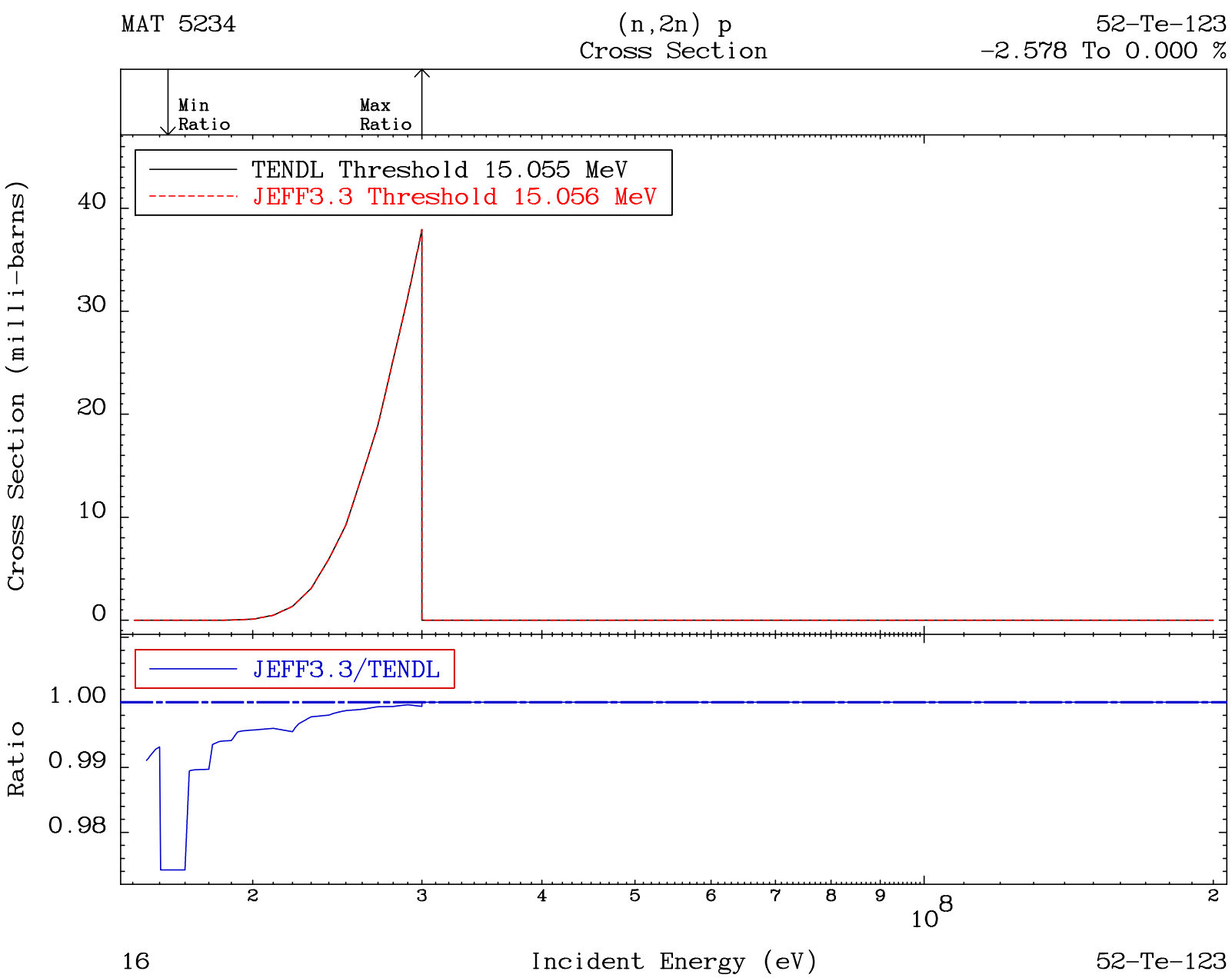

MAT 5234
(n,n') 2α
Cross Section
52-Te-123
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.9862 MeV
JEFF3.3 Threshold 5.9862 MeV
Cross Section (10^{-9} barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
52-Te-123

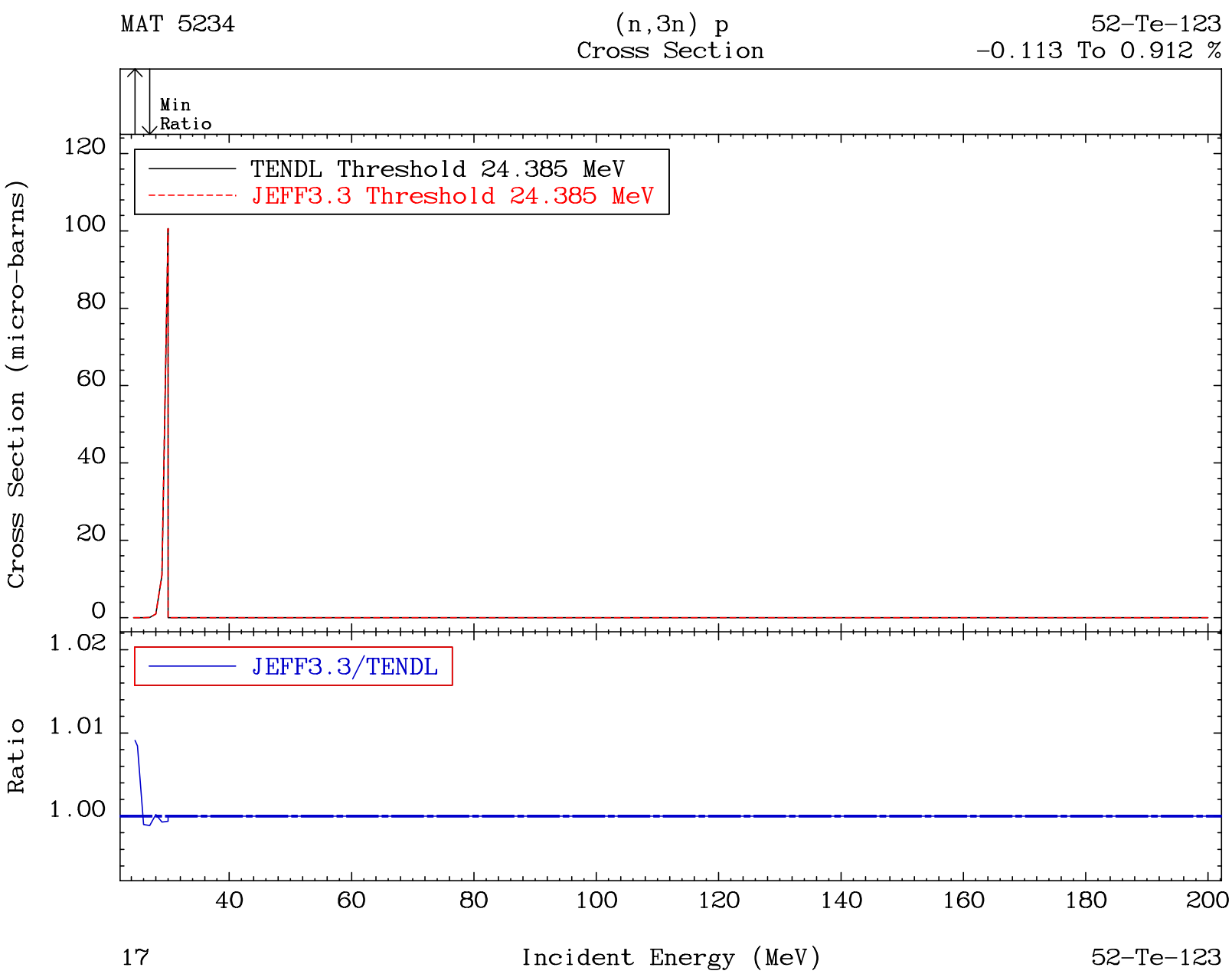

MAT 5234
(n,n') d
Cross Section
52-Te-123
-3.607 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 12.812 MeV
JEFF3.3 Threshold 12.814 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.00
0.98
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
52-Te-123

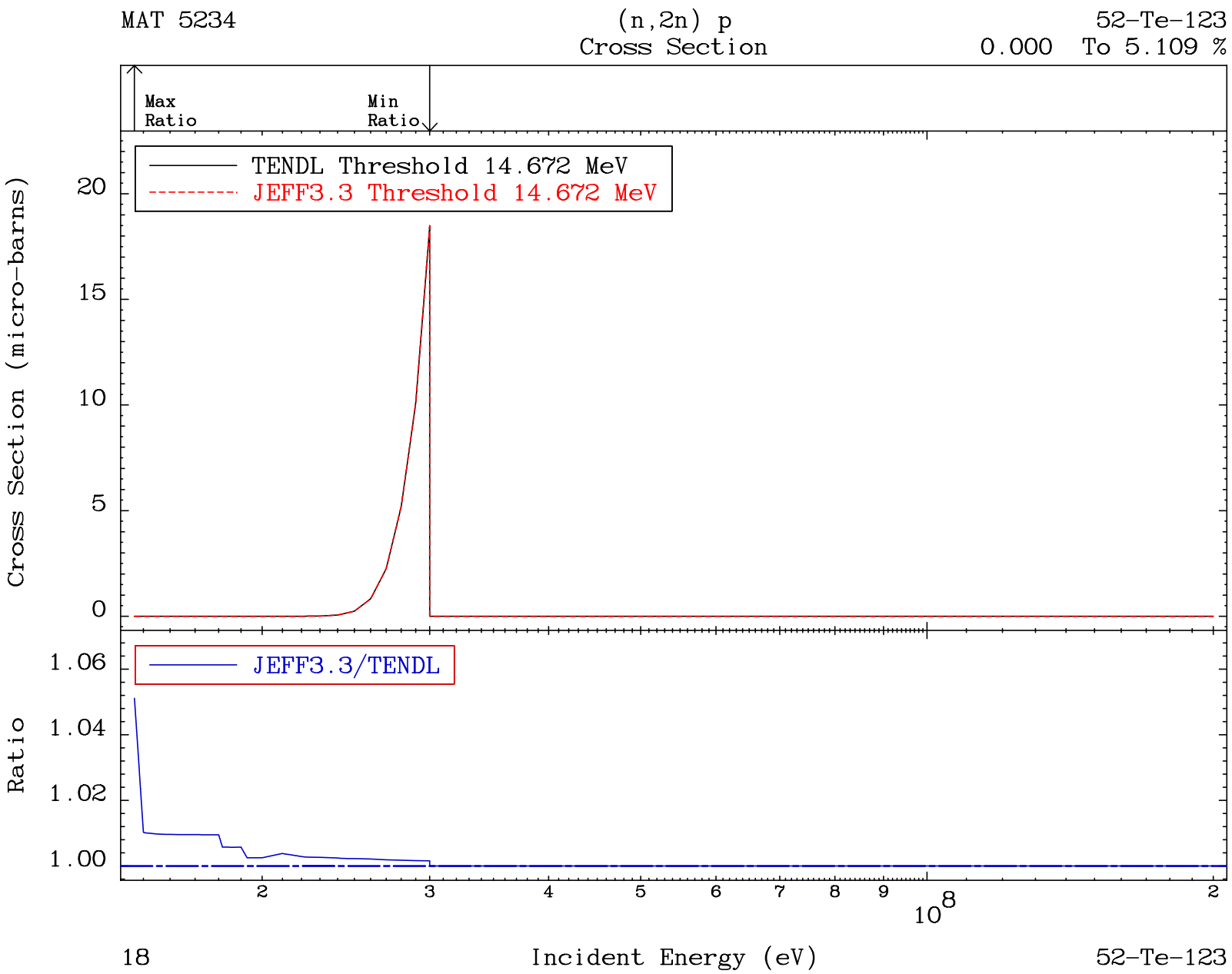

MAT 5234
(n,n') t
Cross Section
52-Te-123
-0.478 To 0.063 %
Min Ratio
Max Ratio
TENDL Threshold 15.833 MeV
JEFF3.3 Threshold 15.833 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
JEFF3.3/TENDL
Ratio
0.99
1.00
1.01
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
52-Te-123

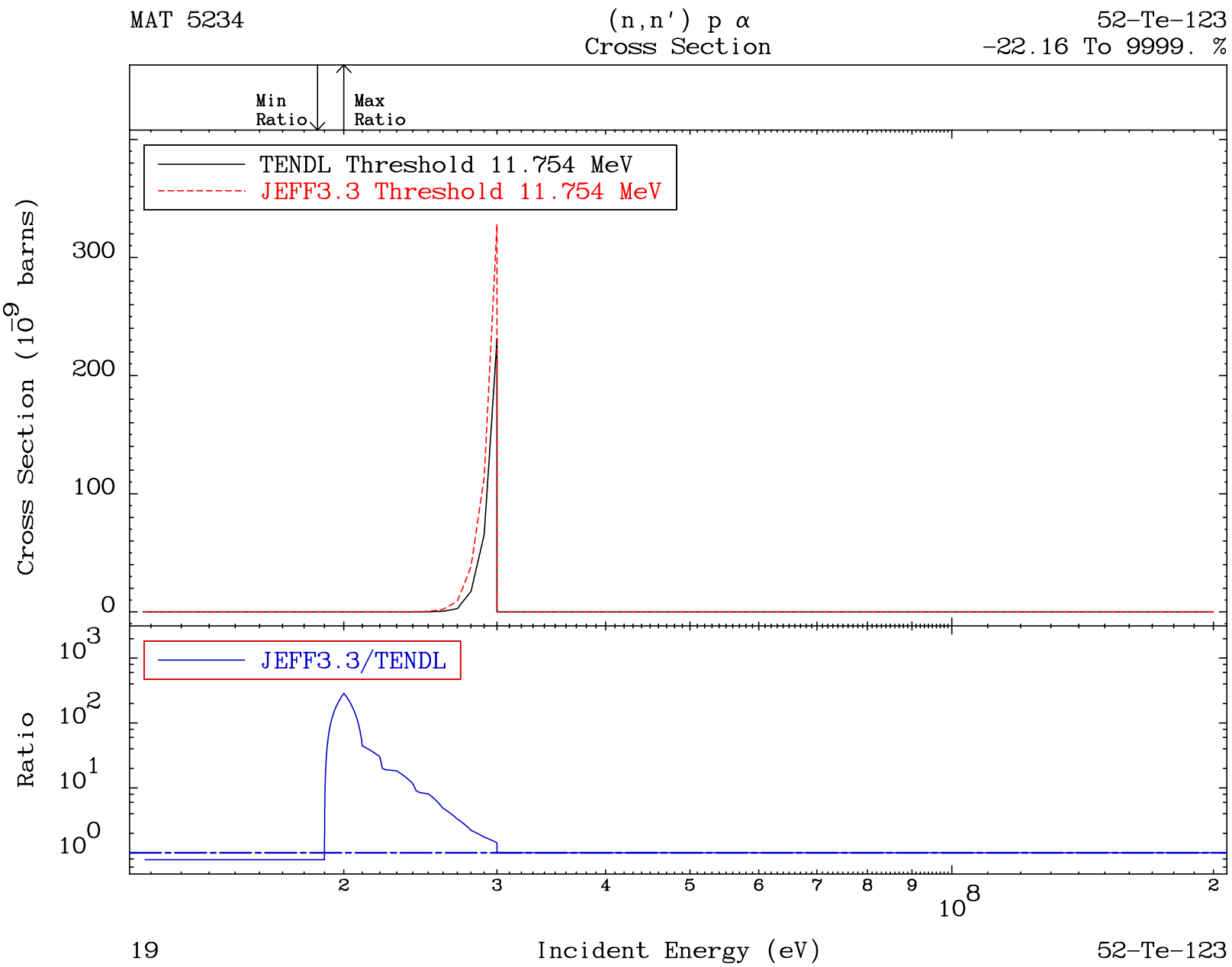

MAT 5234
(n,n') He-3
Cross Section
52-Te-123
-0.217 To 0.137 %
Max Ratio
Min Ratio
TENDL Threshold 13.112 MeV
JEFF3.3 Threshold 13.112 MeV
Cross Section (micro-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
52-Te-123

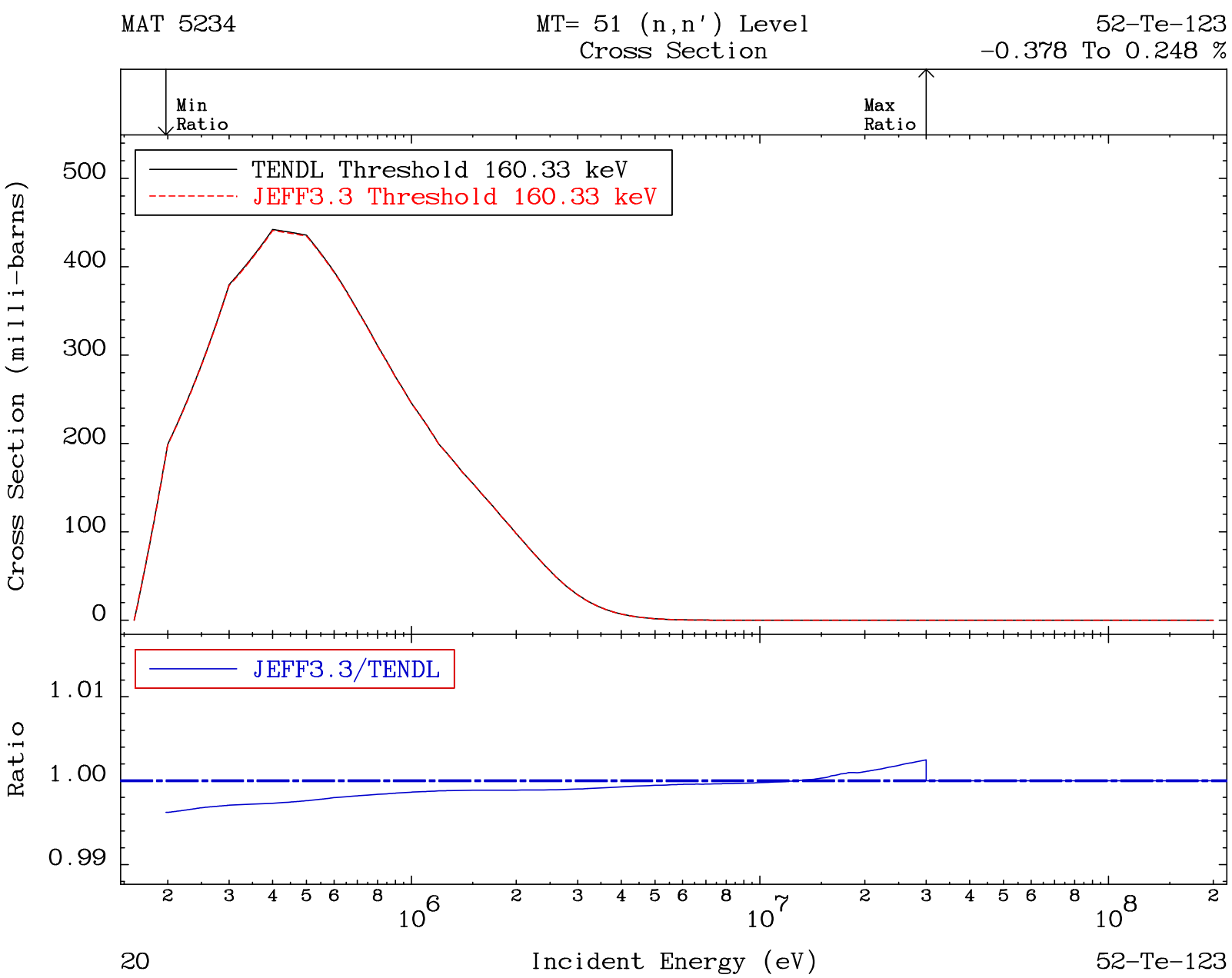

MAT 5234
(n,4n)
Cross Section
52-Te-123
-0.158 To 0.000 %
Max
Ratio
TENDL Threshold 24.215 MeV
JEFF3.3 Threshold 24.215 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
15
Incident Energy (MeV)
52-Te-123

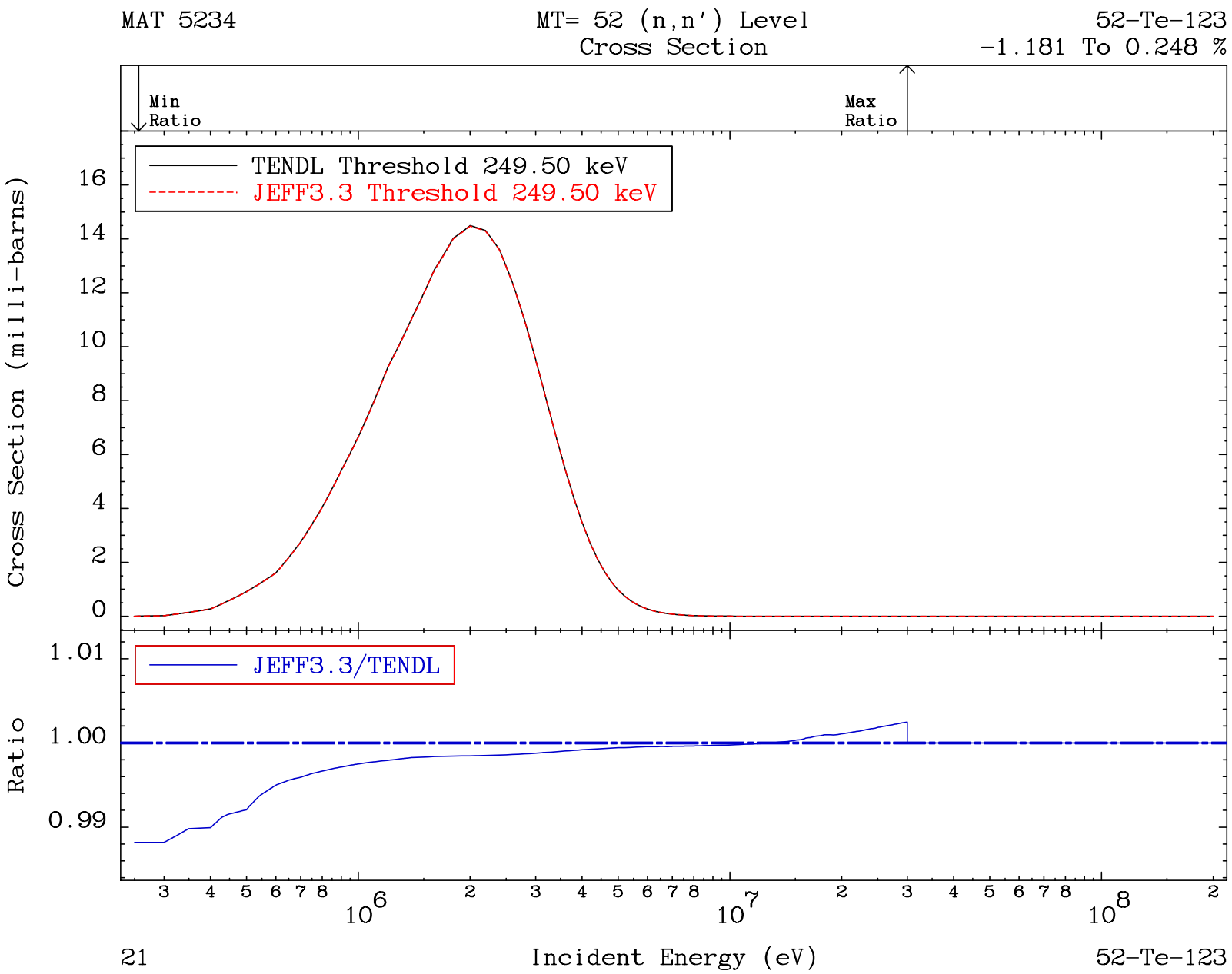

MAT 5234
(n,2n) p
Cross Section
52-Te-123
-2.578 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 15.055 MeV
JEFF3.3 Threshold 15.056 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
16
Incident Energy (eV)
52-Te-123

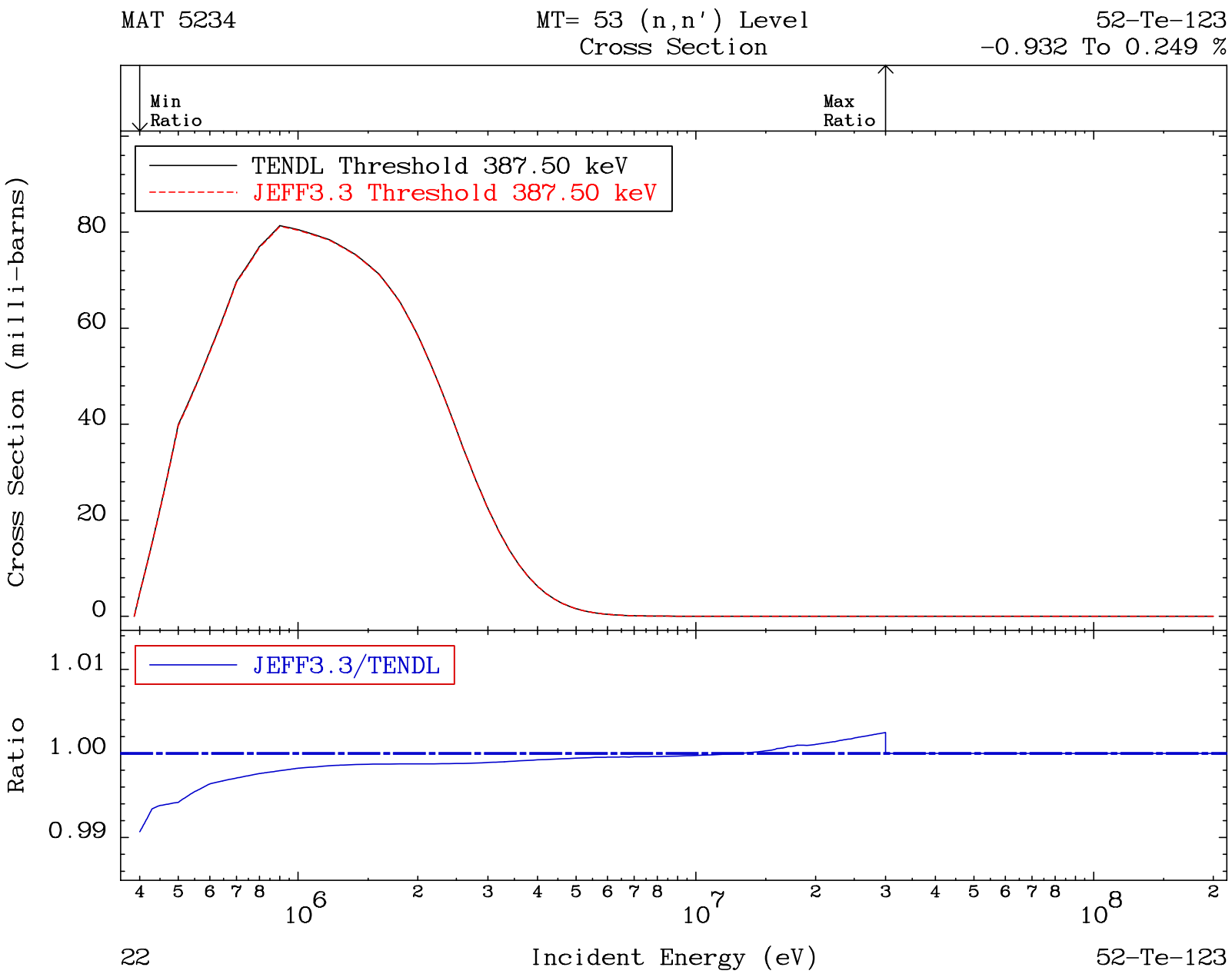

MAT 5234
(n,3n) p
Cross Section
52-Te-123
-0.113 To 0.912 %
Min
Ratio
TENDL Threshold 24.385 MeV
JEFF3.3 Threshold 24.385 MeV
Cross Section (micro-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
40
60
80
100
120
140
160
180
200
17
Incident Energy (MeV)
52-Te-123

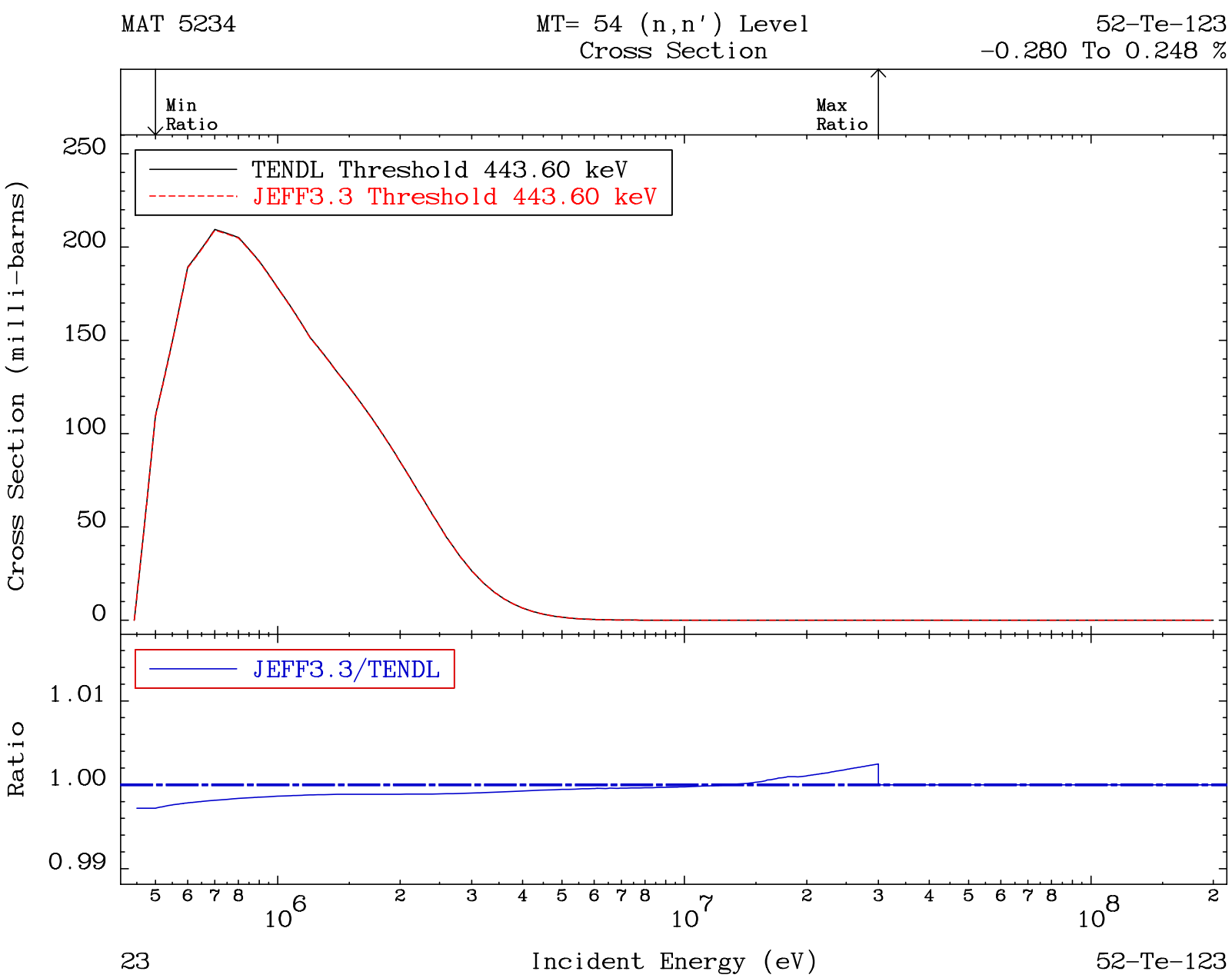

MAT 5234
(n,2n) p
Cross Section
52-Te-123
0.000 To 5.109 %
Max Ratio
Min Ratio
TENDL Threshold 14.672 MeV
JEFF3.3 Threshold 14.672 MeV
Cross Section (micro-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.06
1.04
1.02
1.00
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
52-Te-123

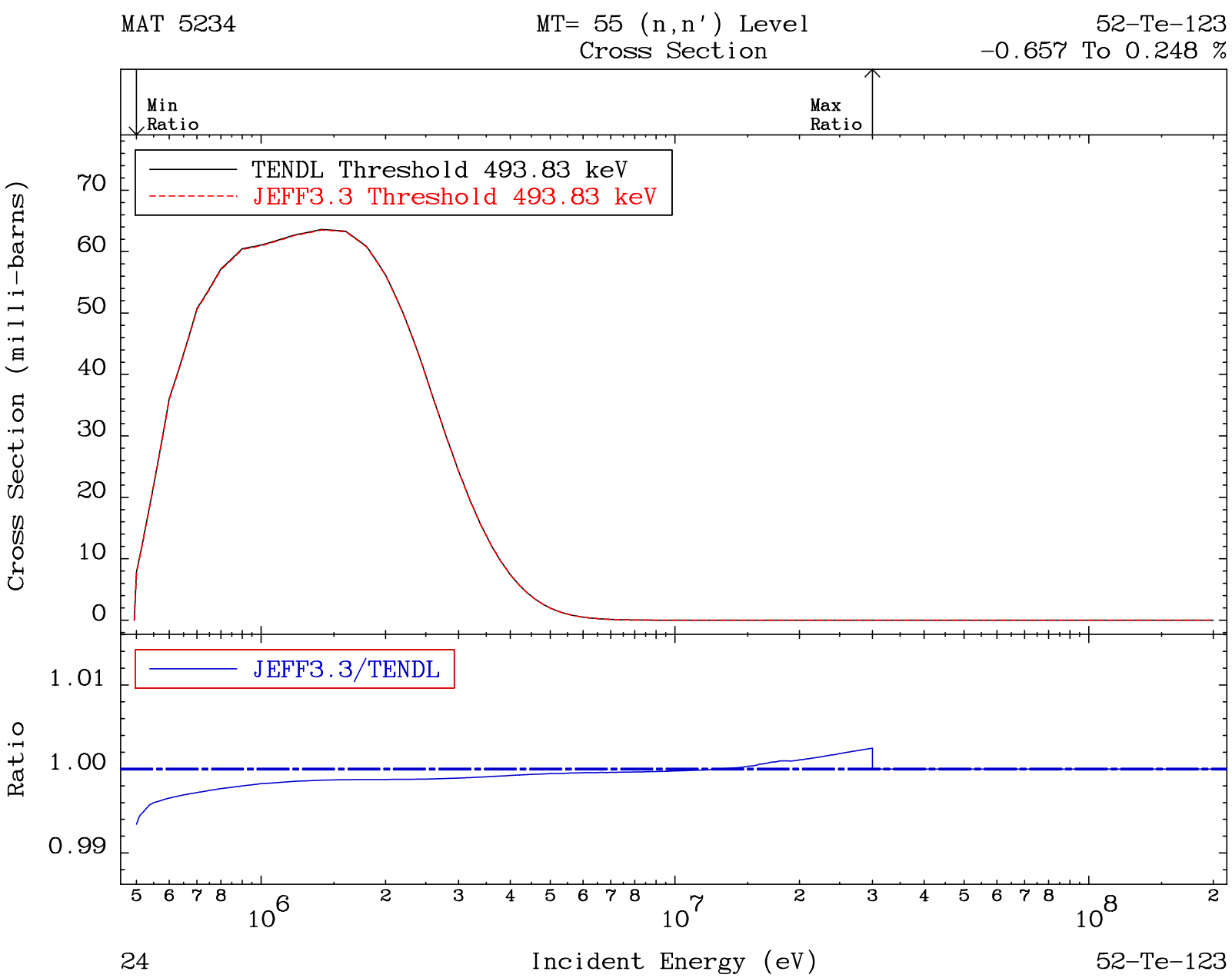

MAT 5234
(n,n') p α
Cross Section
52-Te-123
-22.16 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 11.754 MeV
JEFF3.3 Threshold 11.754 MeV
Cross Section (10^{-9} barns)
300
200
100
0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
52-Te-123

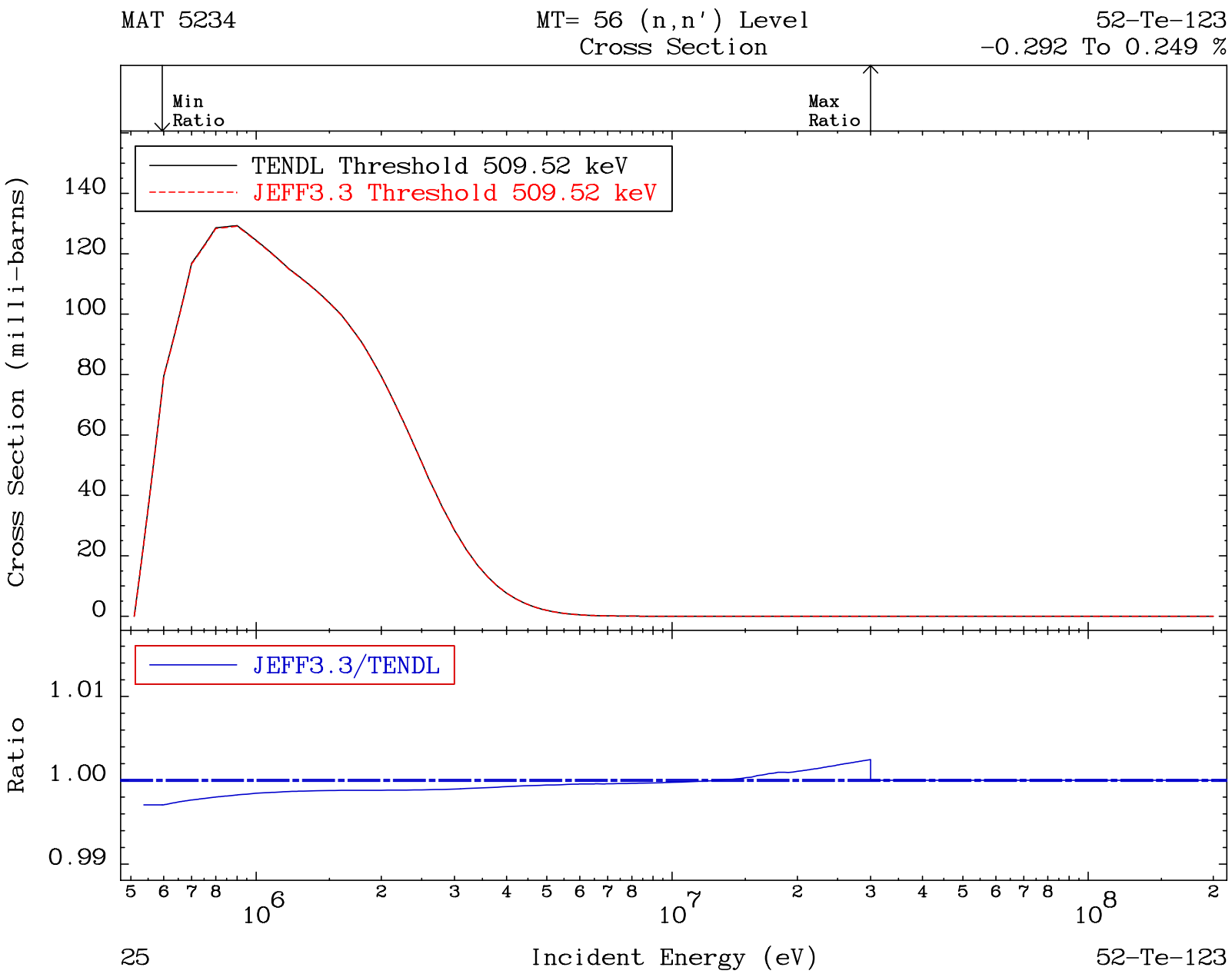

MAT 5234
MT= 51 (n,n') Level
Cross Section
52-Te-123
-0.378 To 0.248 %
Min
Ratio
Max
Ratio
TENDL Threshold 160.33 keV
JEFF3.3 Threshold 160.33 keV
Cross Section (milli-barns)
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
20
Incident Energy (eV)
52-Te-123

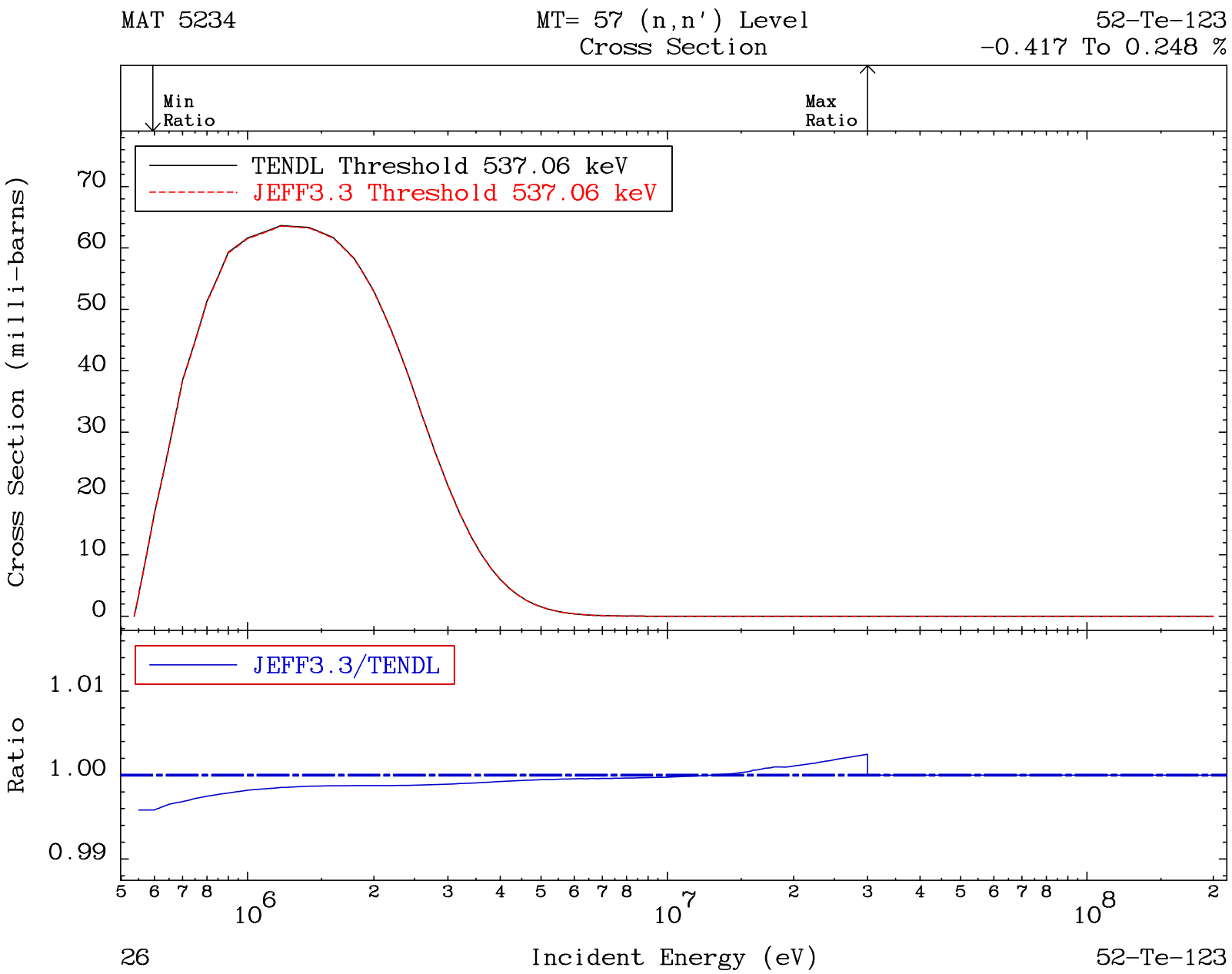

MAT 5234
MT= 52 (n,n') Level
Cross Section
52-Te-123
-1.181 To 0.248 %
Min
Ratio
Max
Ratio
TENDL Threshold 249.50 keV
JEFF3.3 Threshold 249.50 keV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
52-Te-123

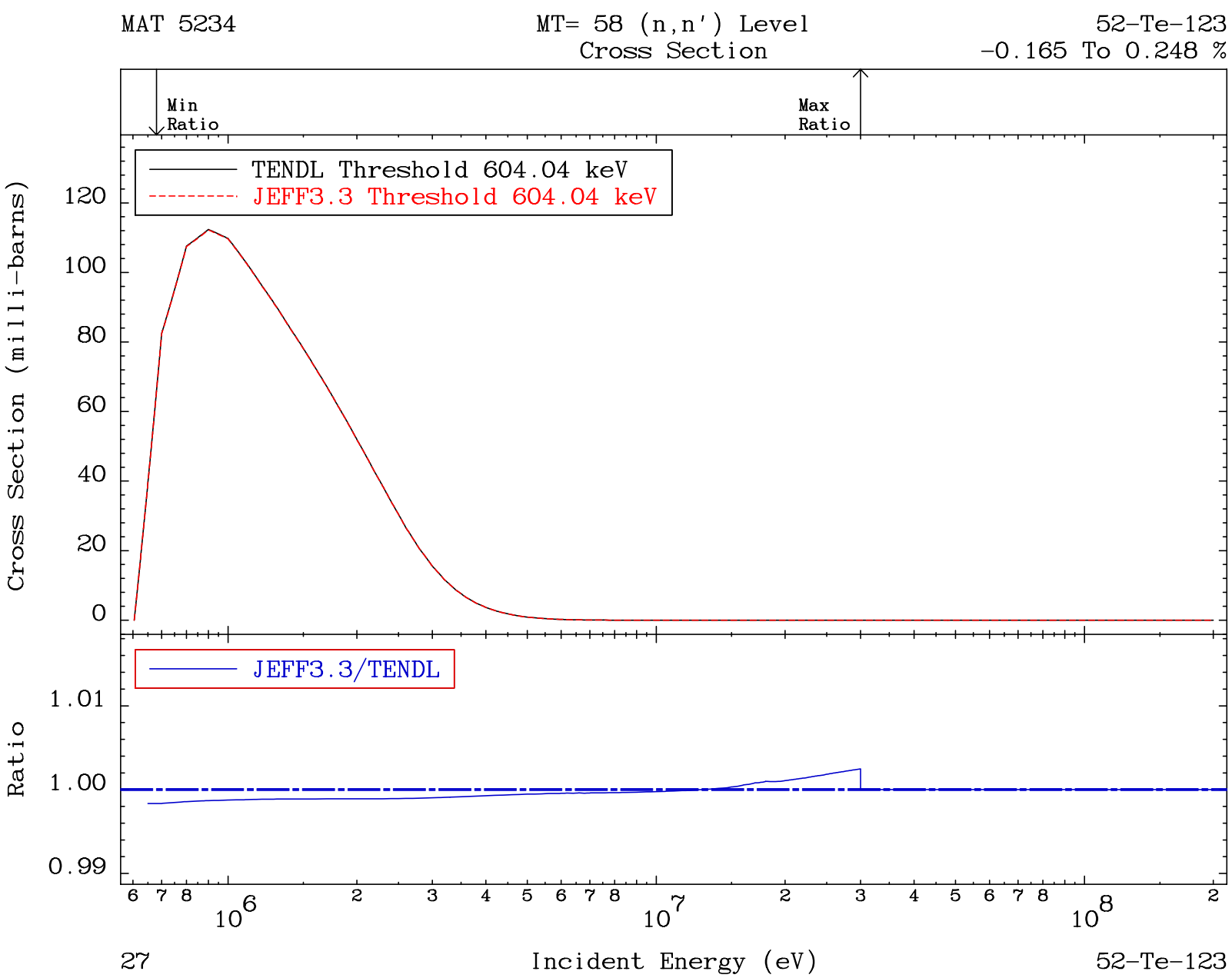

MAT 5234
MT= 53 (n,n') Level
Cross Section
52-Te-123
-0.932 To 0.249 %
Min
Ratio
Max
Ratio
TENDL Threshold 387.50 keV
JEFF3.3 Threshold 387.50 keV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
52-Te-123

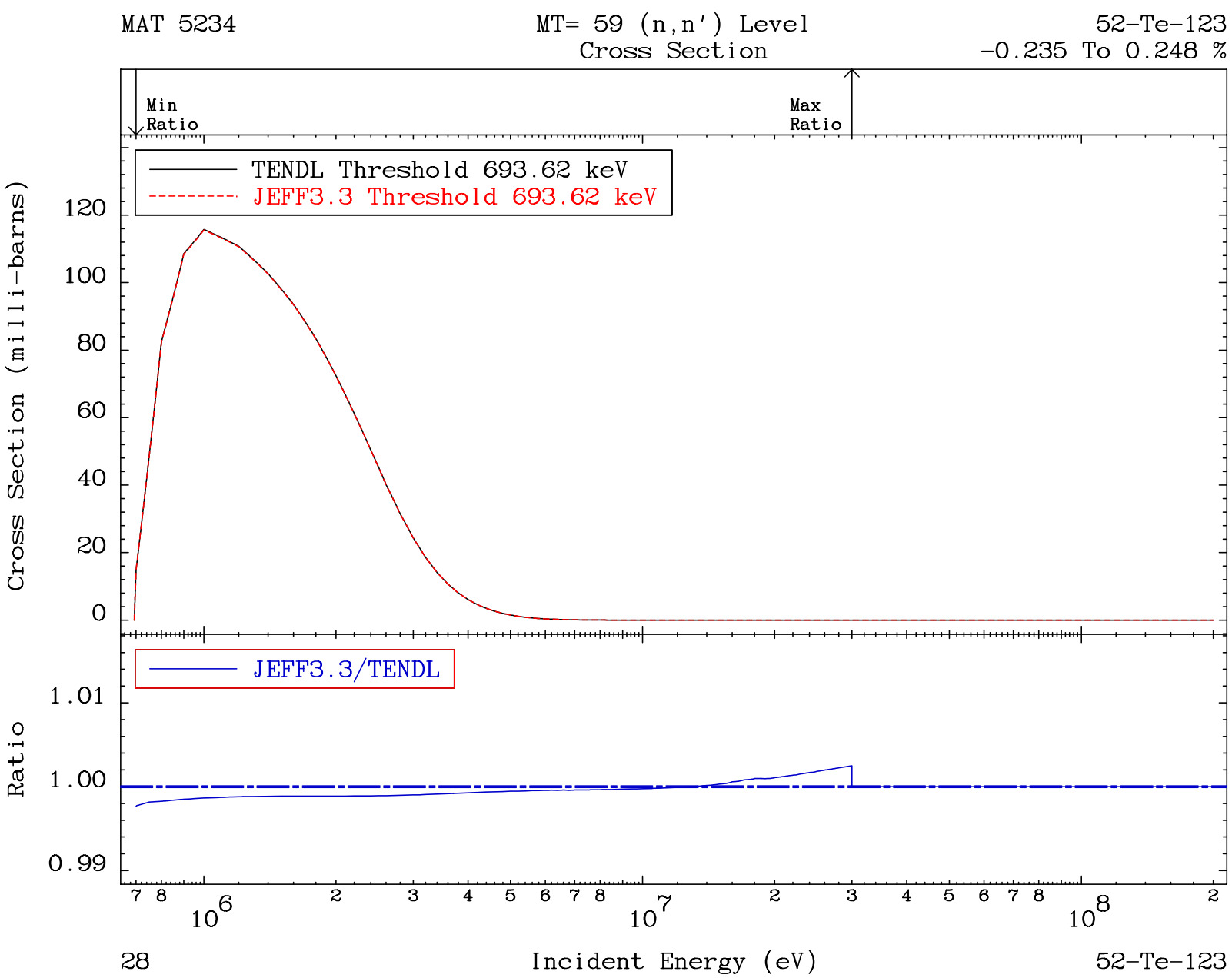

MAT 5234
MT= 54 (n,n') Level
Cross Section
52-Te-123
-0.280 To 0.248 %
Min
Ratio
Max
Ratio
TENDL Threshold 443.60 keV
JEFF3.3 Threshold 443.60 keV
Cross Section (milli-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
52-Te-123

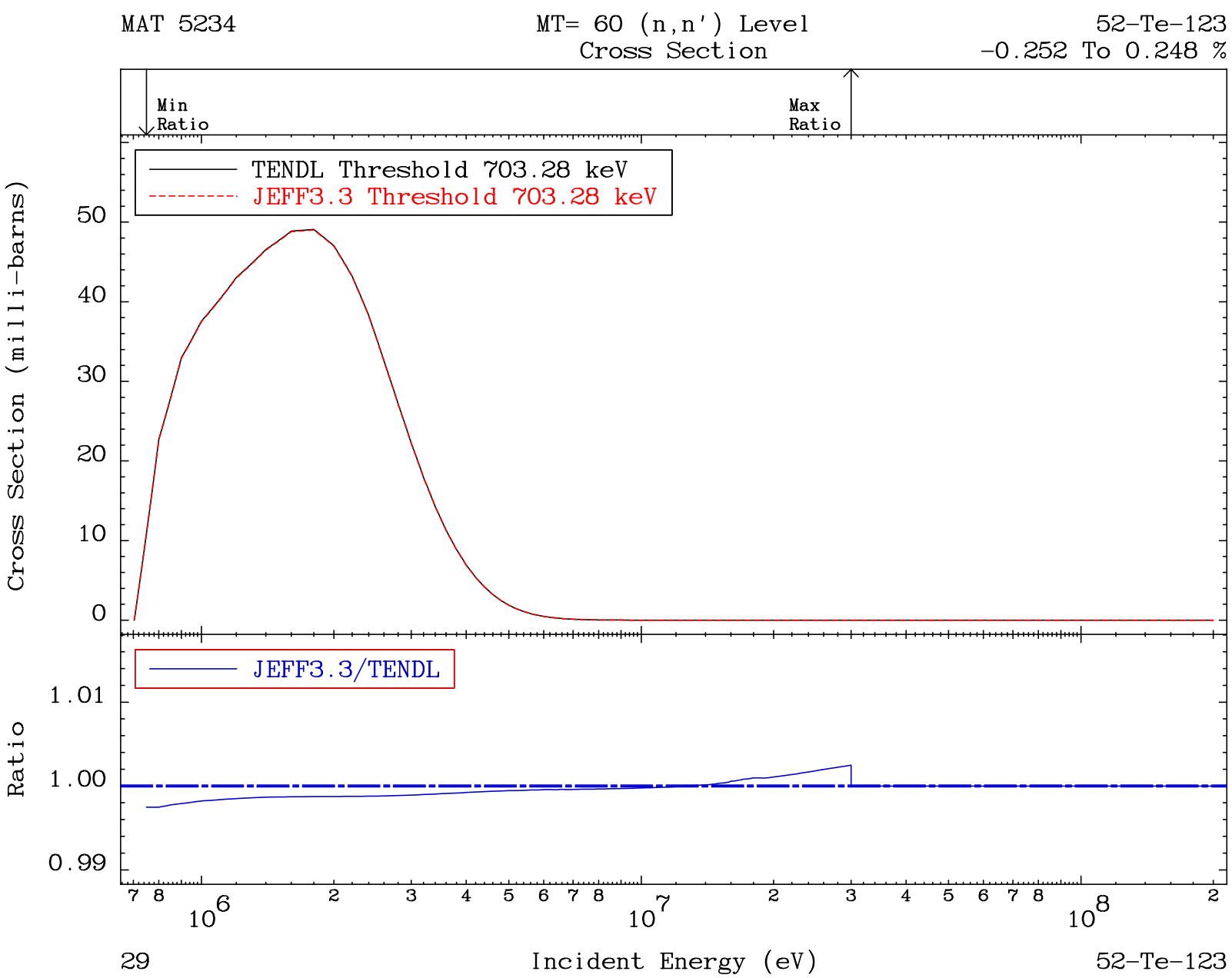

MAT 5234
MT= 55 (n,n') Level
Cross Section
52-Te-123
-0.657 To 0.248 %
Min
Ratio
Max
Ratio
TENDL Threshold 493.83 keV
JEFF3.3 Threshold 493.83 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
52-Te-123

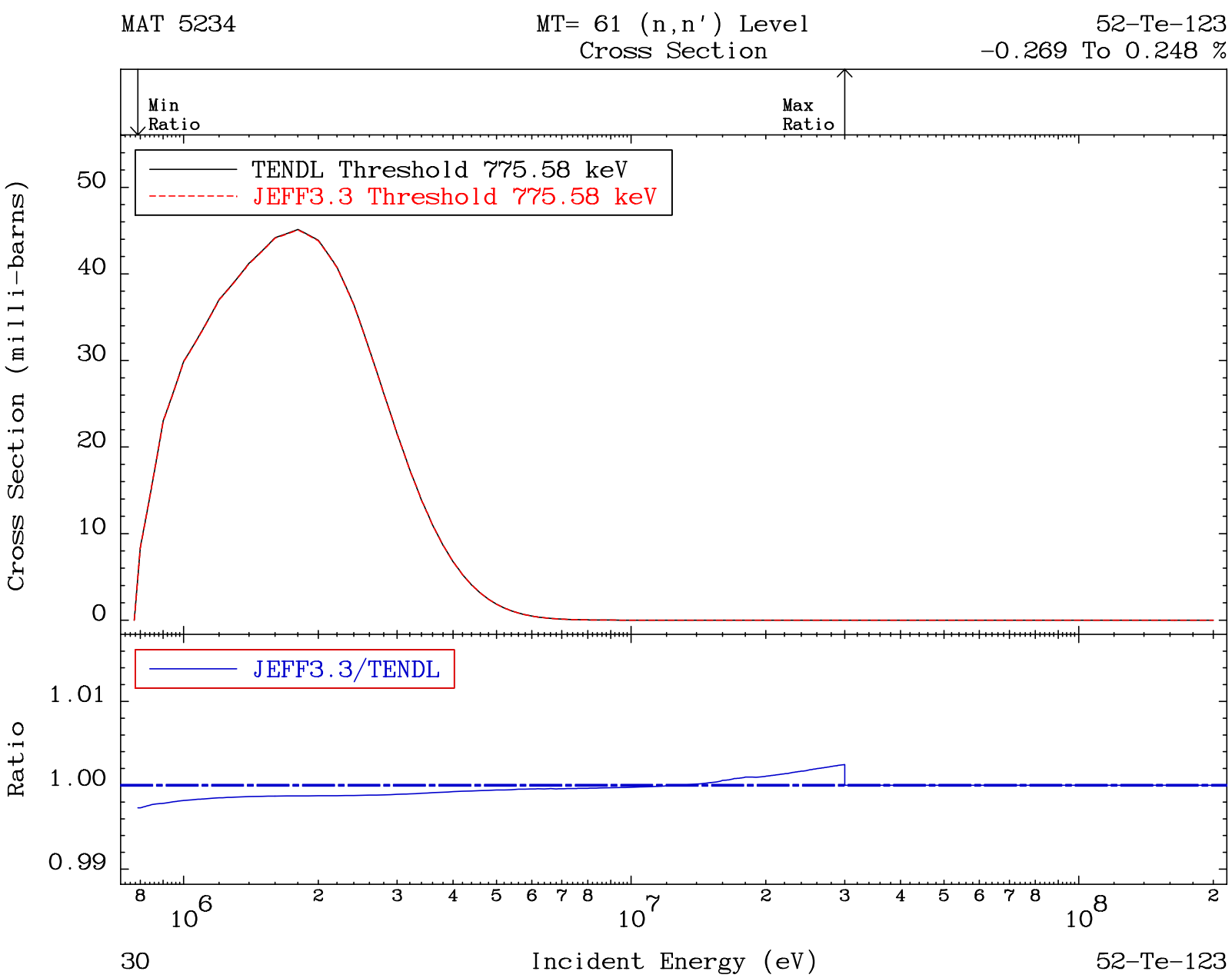

MAT 5234
MT= 56 (n,n') Level
Cross Section
52-Te-123
-0.292 To 0.249 %
Min
Ratio
Max
Ratio
TENDL Threshold 509.52 keV
JEFF3.3 Threshold 509.52 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
25
Incident Energy (eV)
52-Te-123

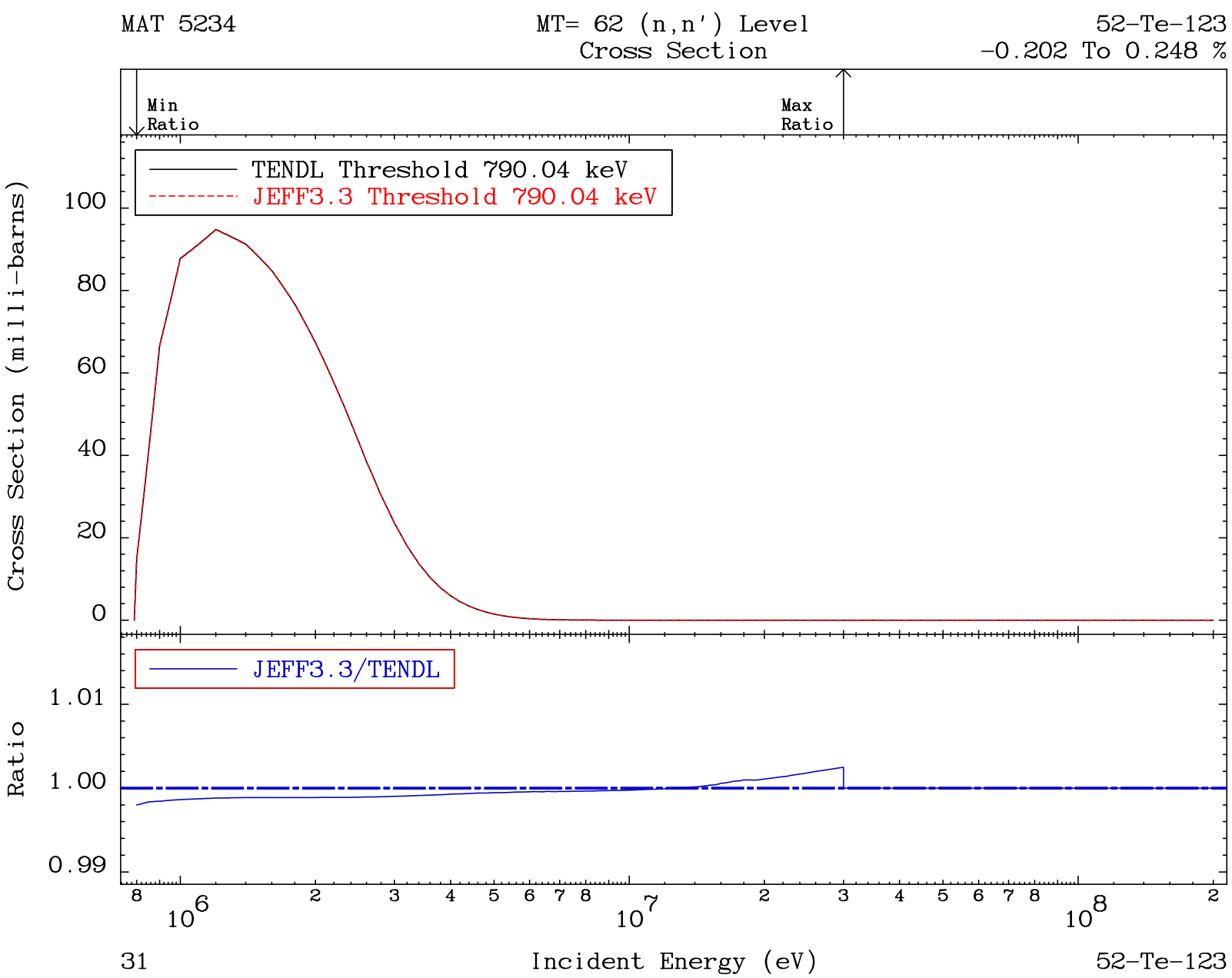

MAT 5234
MT= 57 (n,n') Level
Cross Section
52-Te-123
-0.417 To 0.248 %
Min
Ratio
Max
Ratio
TENDL Threshold 537.06 keV
JEFF3.3 Threshold 537.06 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
26
Incident Energy (eV)
52-Te-123

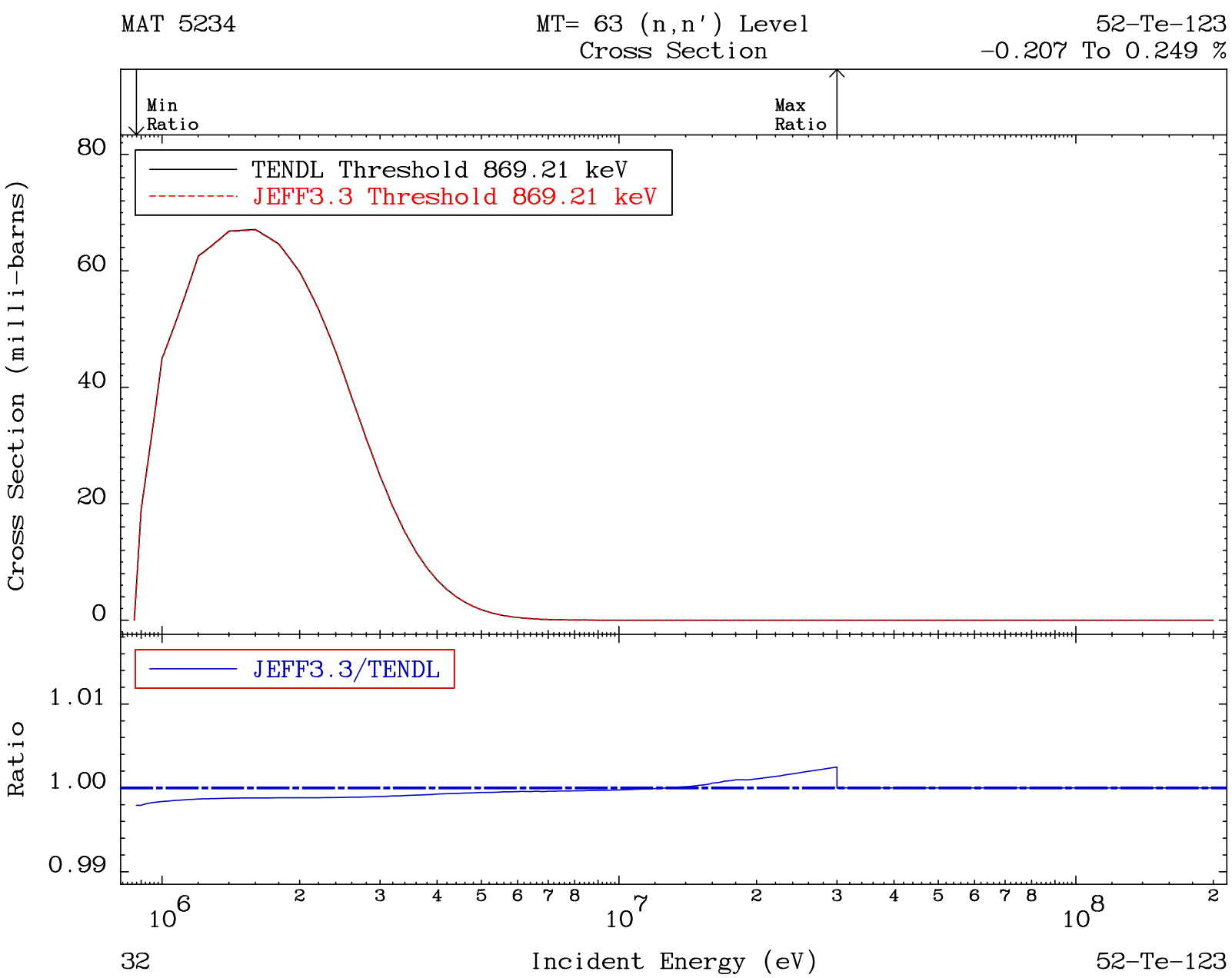

MAT 5234
MT= 58 (n,n') Level
Cross Section
52-Te-123
-0.165 To 0.248 %
Min
Ratio
Max
Ratio
TENDL Threshold 604.04 keV
JEFF3.3 Threshold 604.04 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
6 7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
27
Incident Energy (eV)
52-Te-123

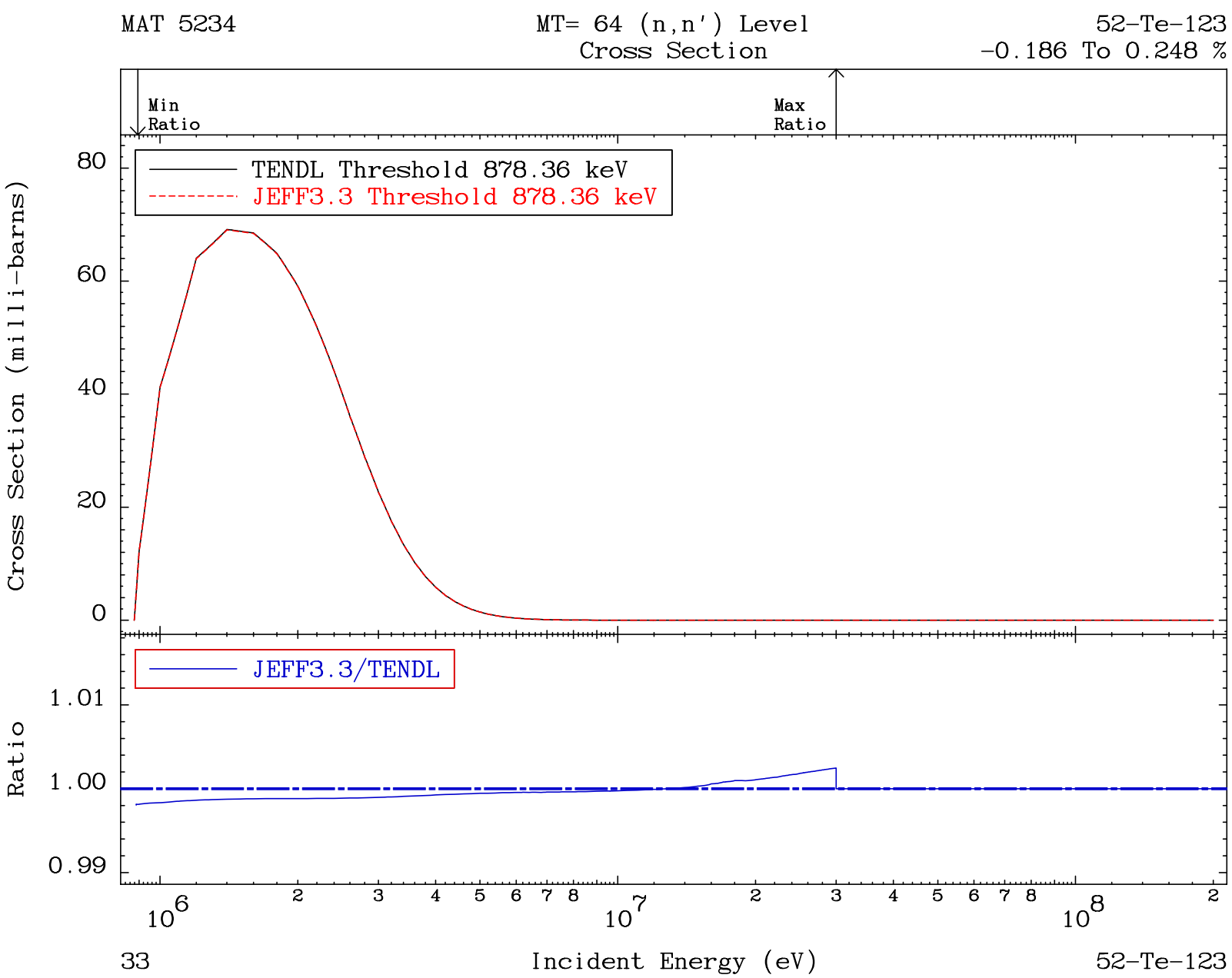

MAT 5234
MT= 59 (n,n') Level
Cross Section
52-Te-123
-0.235 To 0.248 %
Min
Ratio
Max
Ratio
TENDL Threshold 693.62 keV
JEFF3.3 Threshold 693.62 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
28
Incident Energy (eV)
52-Te-123

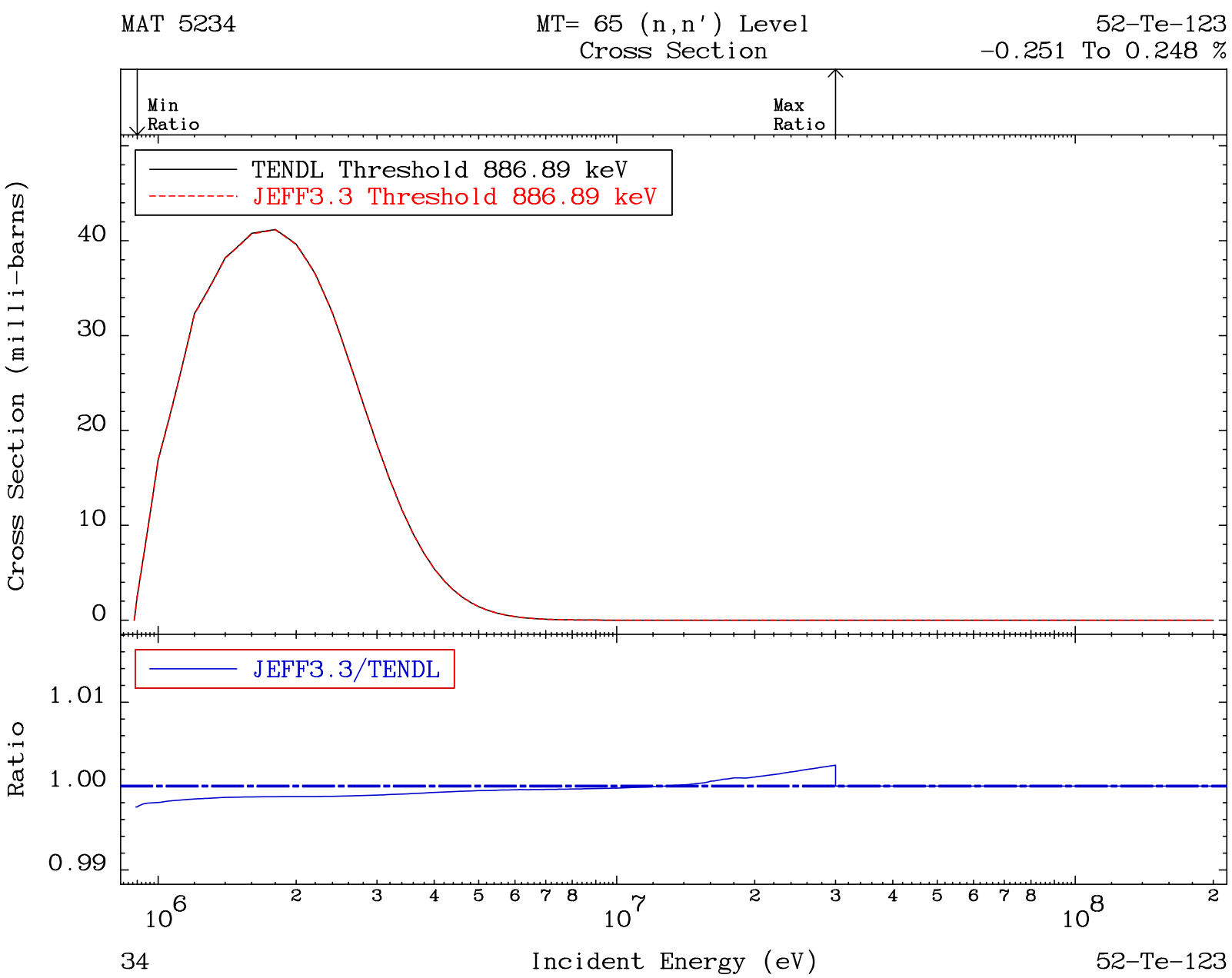

MAT 5234
MT= 60 (n,n') Level
Cross Section
52-Te-123
-0.252 To 0.248 %
Min
Ratio
Max
Ratio
TENDL Threshold 703.28 keV
JEFF3.3 Threshold 703.28 keV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
29
Incident Energy (eV)
52-Te-123

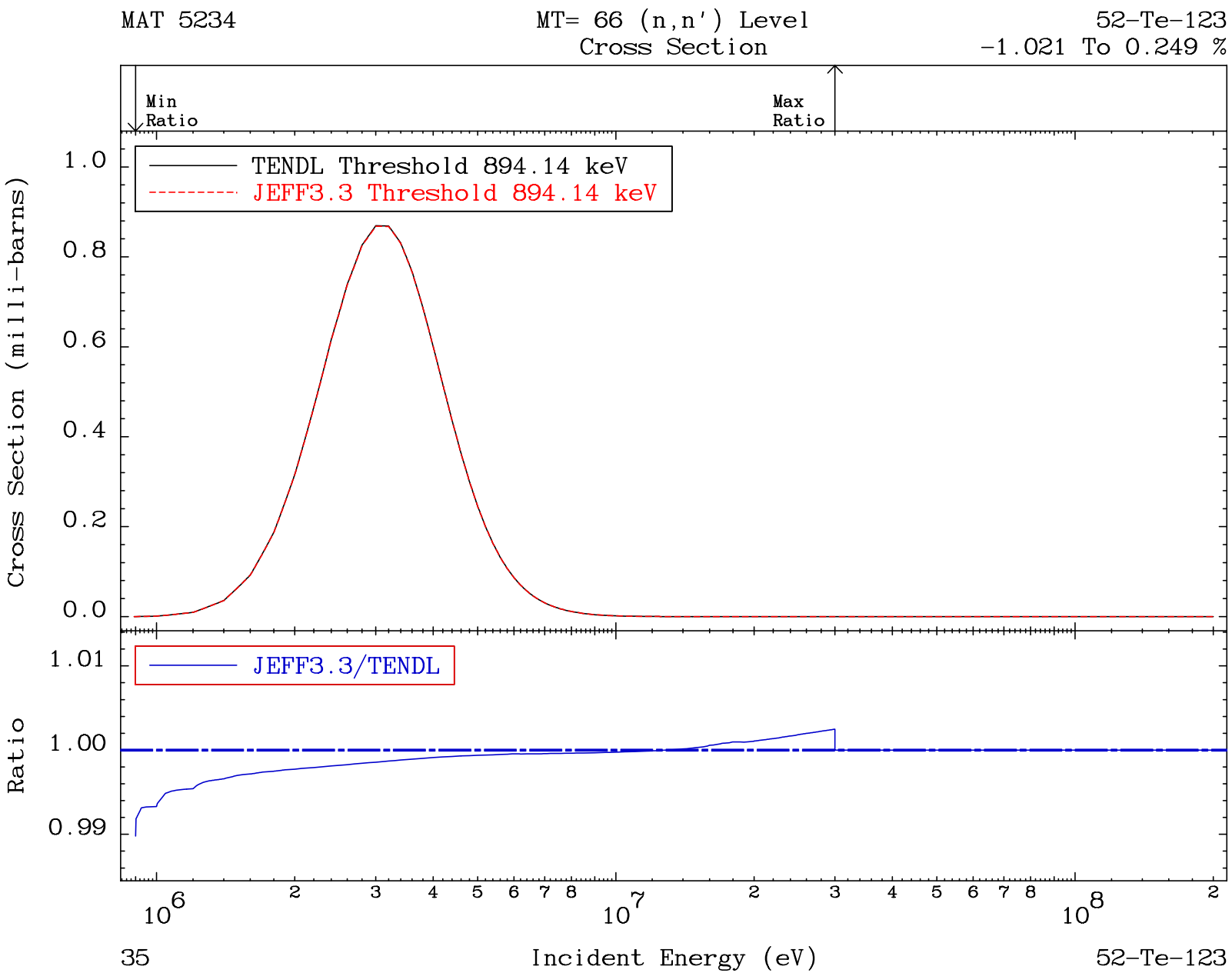

MAT 5234
MT= 61 (n,n') Level
Cross Section
52-Te-123
-0.269 To 0.248 %
Min
Ratio
Max
Ratio
TENDL Threshold 775.58 keV
JEFF3.3 Threshold 775.58 keV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
30
Incident Energy (eV)
52-Te-123

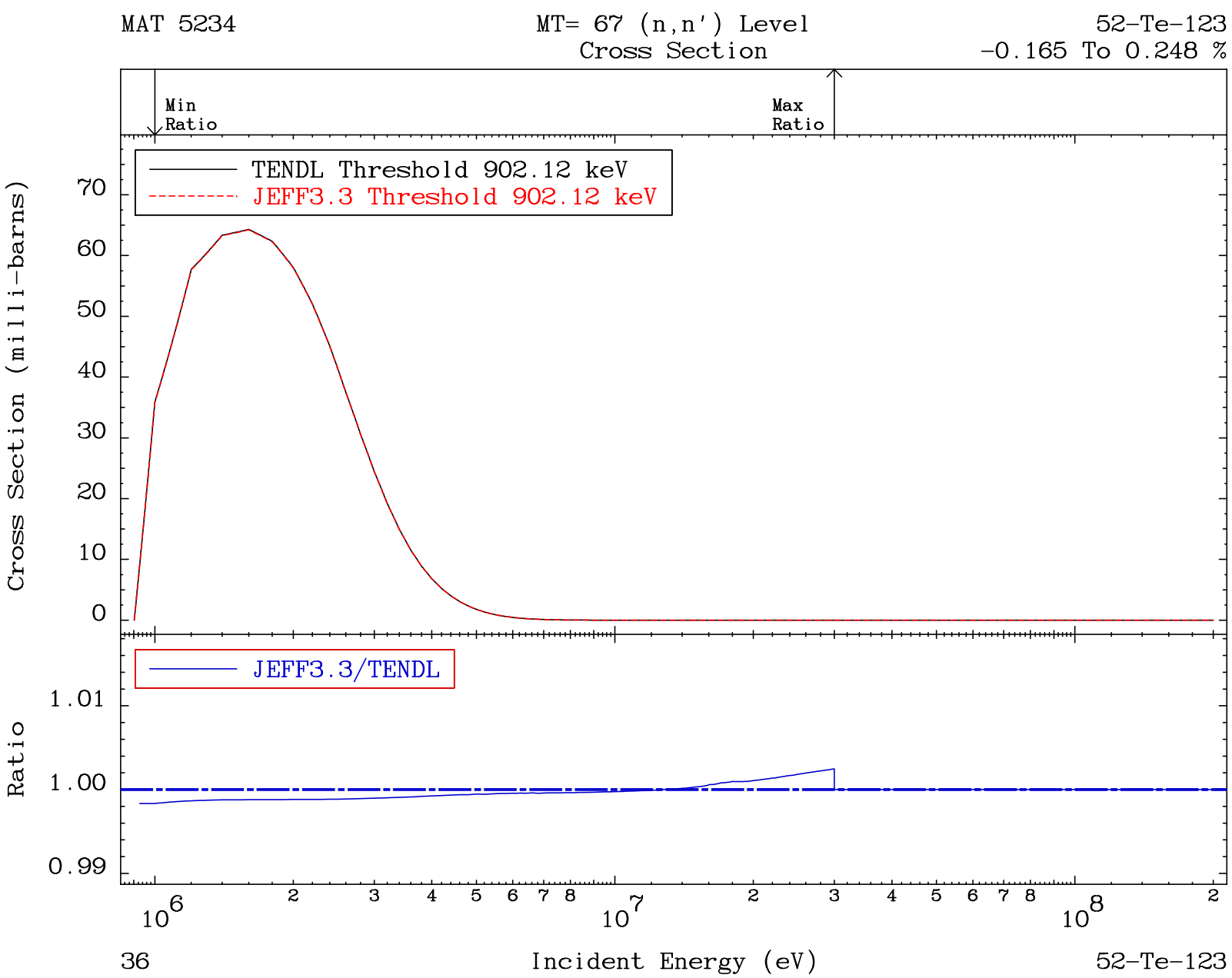

MAT 5234
MT= 62 (n,n') Level
Cross Section
52-Te-123
-0.202 To 0.248 %
Min
Ratio
Max
Ratio
TENDL Threshold 790.04 keV
JEFF3.3 Threshold 790.04 keV
Cross Section (milli-barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
31
Incident Energy (eV)
52-Te-123

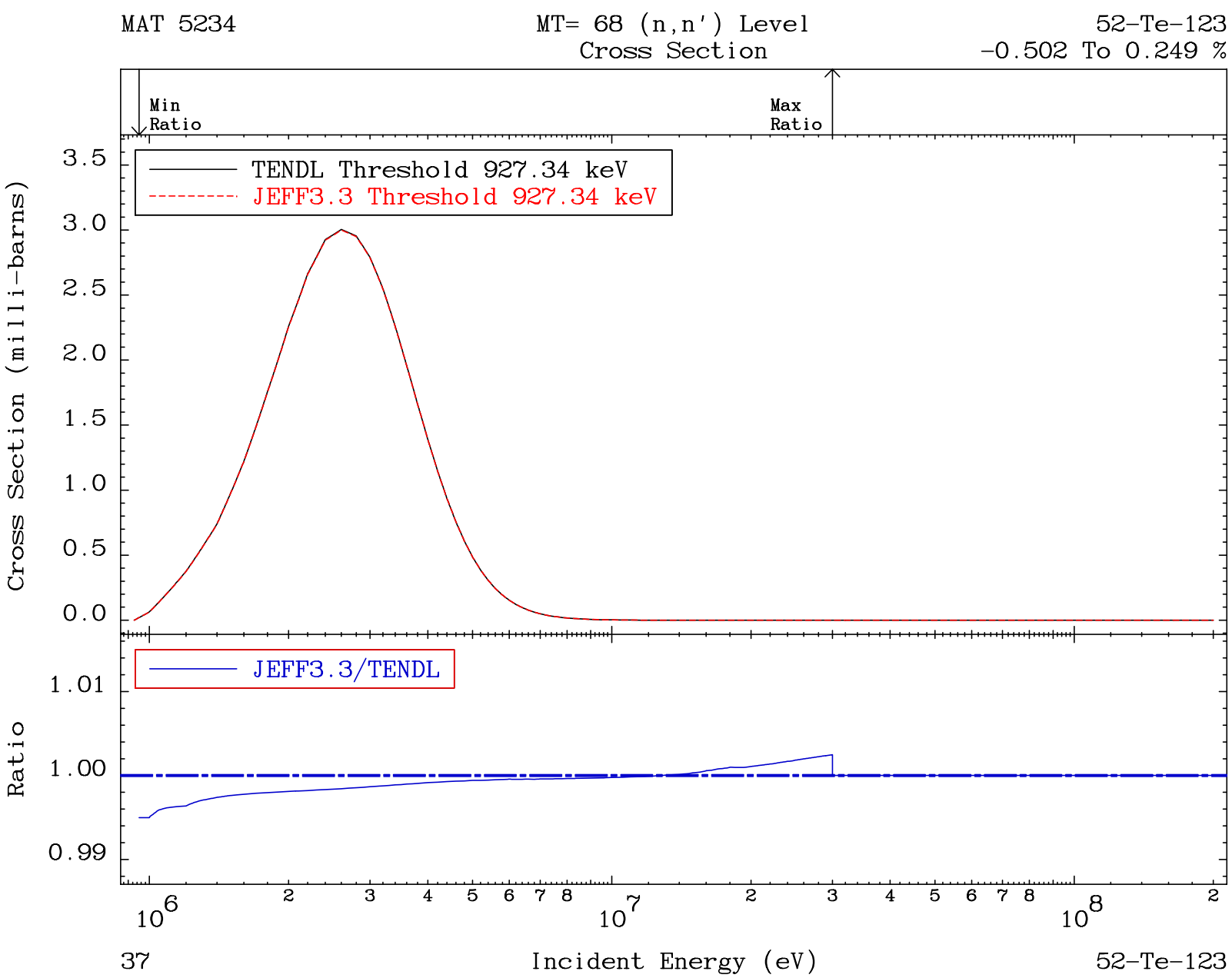

MAT 5234
MT= 63 (n,n') Level
Cross Section
52-Te-123
-0.207 To 0.249 %
Min
Ratio
Max
Ratio
TENDL Threshold 869.21 keV
JEFF3.3 Threshold 869.21 keV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
32
Incident Energy (eV)
52-Te-123

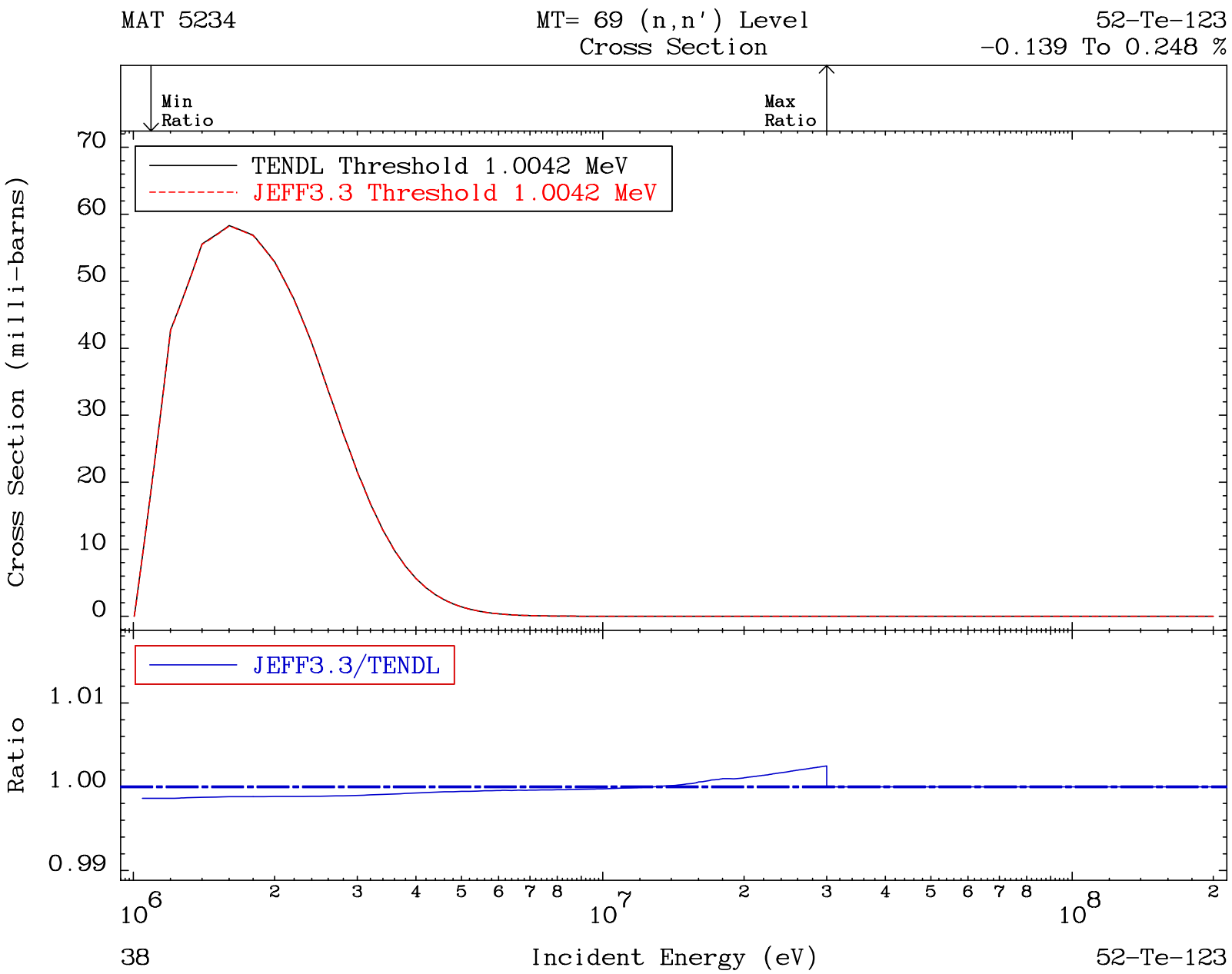

MAT 5234
MT= 64 (n,n') Level
Cross Section
52-Te-123
-0.186 To 0.248 %
Min
Ratio
Max
Ratio
TENDL Threshold 878.36 keV
JEFF3.3 Threshold 878.36 keV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
33
Incident Energy (eV)
52-Te-123

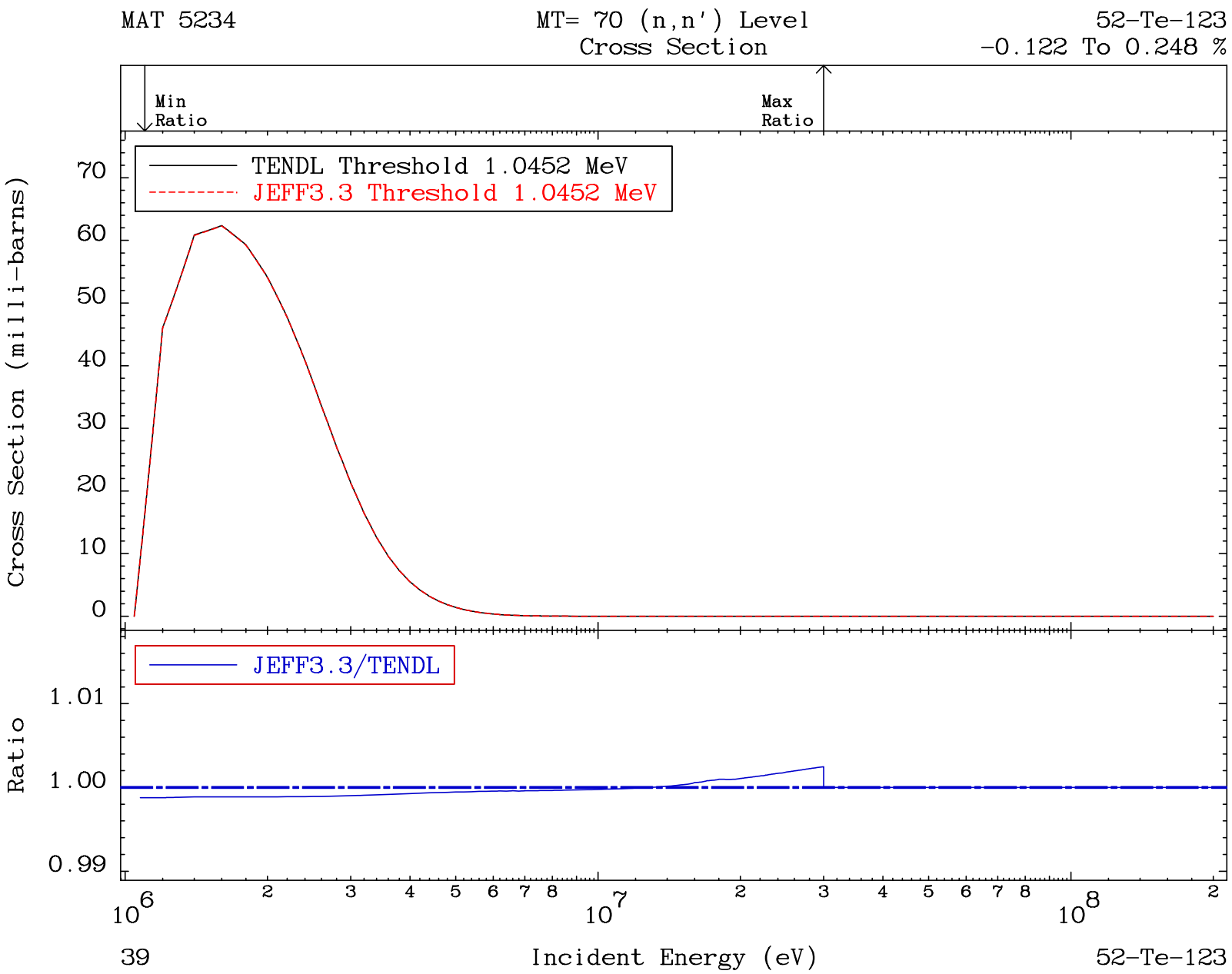

MAT 5234
MT= 65 (n,n') Level
Cross Section
52-Te-123
-0.251 To 0.248 %
Min
Ratio
Max
Ratio
TENDL Threshold 886.89 keV
JEFF3.3 Threshold 886.89 keV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
34
Incident Energy (eV)
52-Te-123

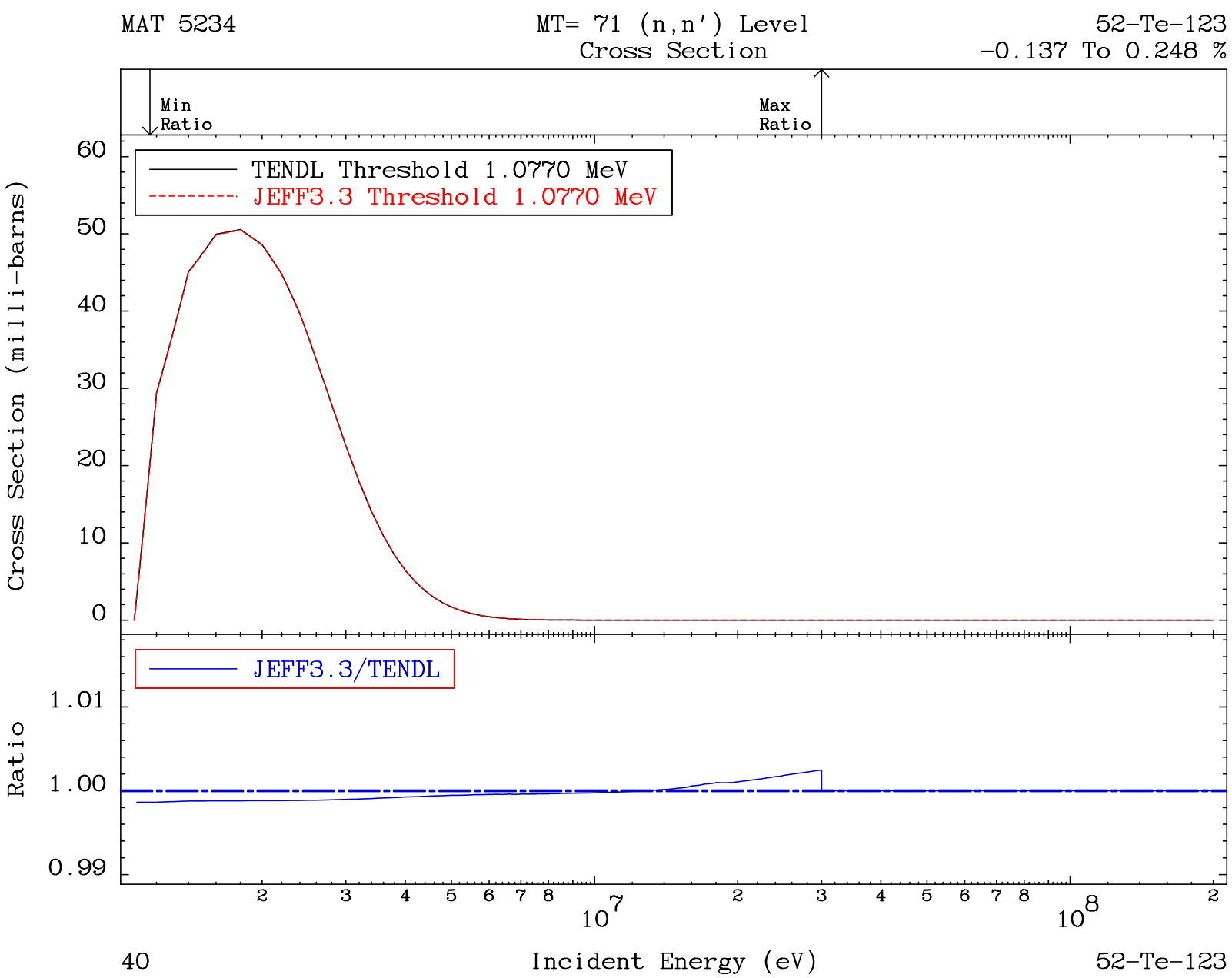

MAT 5234
MT= 66 (n,n') Level
Cross Section
52-Te-123
-1.021 To 0.249 %
Min
Ratio
Max
Ratio
TENDL Threshold 894.14 keV
JEFF3.3 Threshold 894.14 keV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
10^6
10^7
10^8
Incident Energy (eV)
35
52-Te-123

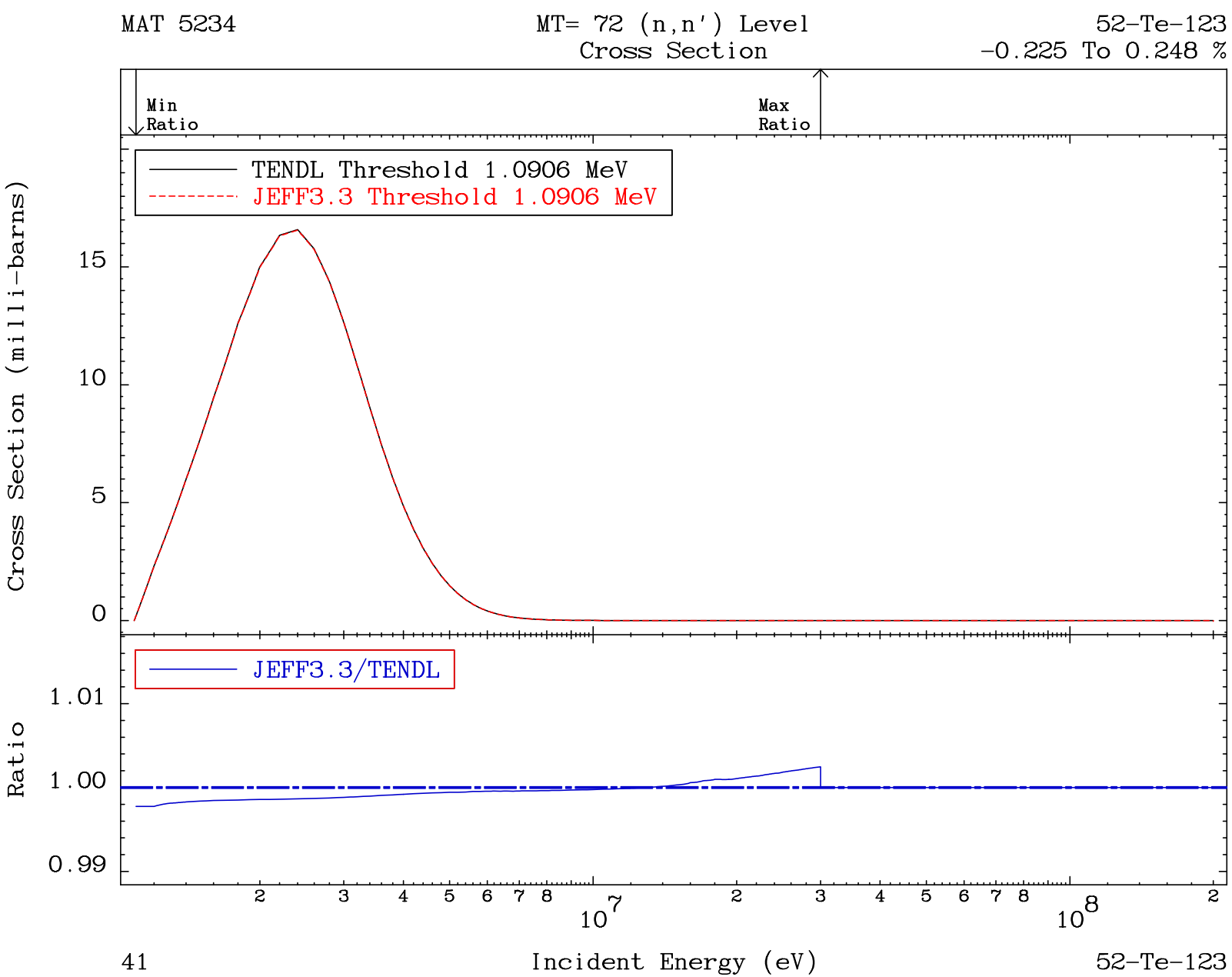

MAT 5234
MT= 67 (n,n') Level
Cross Section
52-Te-123
-0.165 To 0.248 %
Min
Ratio
Max
Ratio
TENDL Threshold 902.12 keV
JEFF3.3 Threshold 902.12 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
36
Incident Energy (eV)
52-Te-123

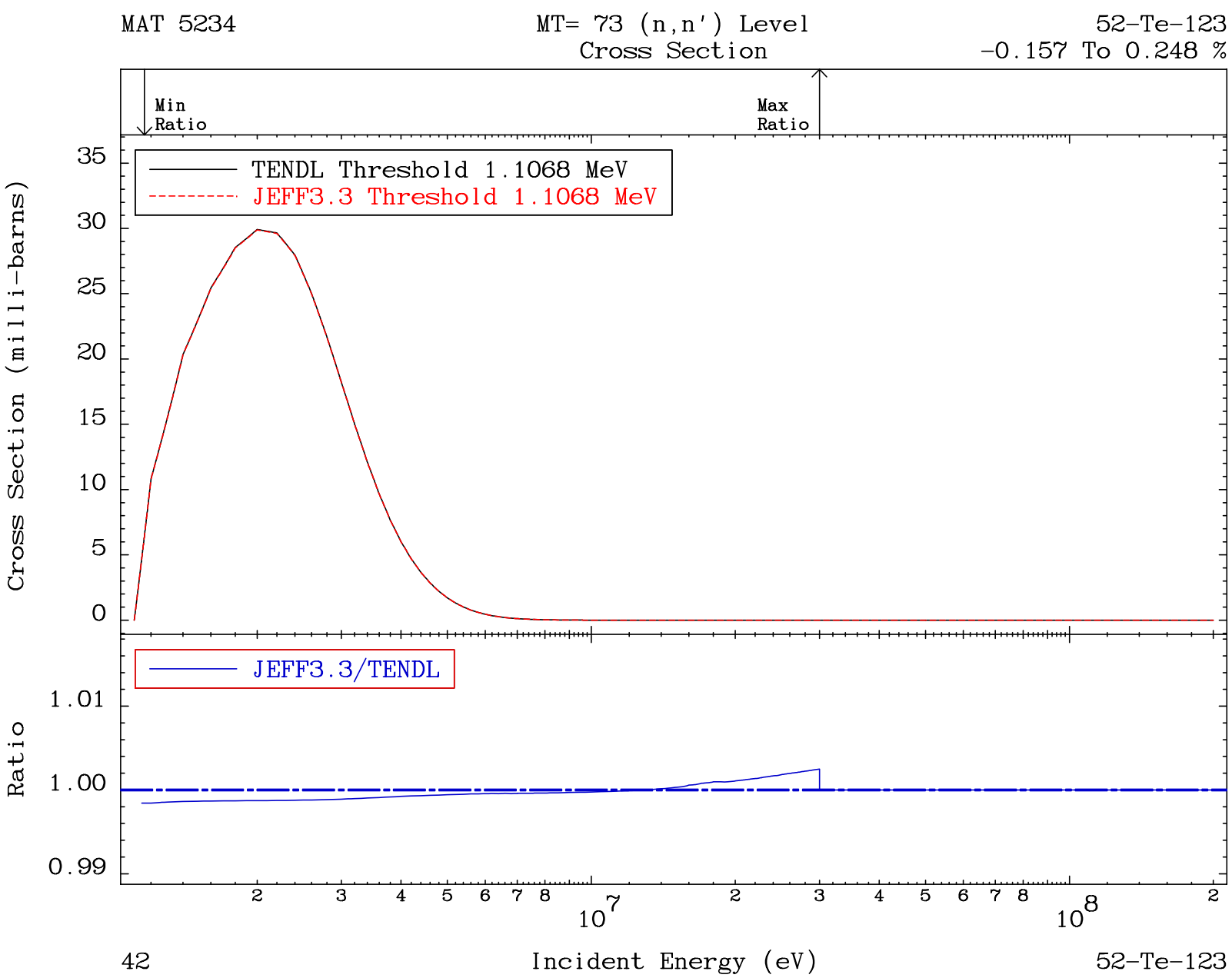

MAT 5234
MT= 68 (n,n') Level
Cross Section
52-Te-123
-0.502 To 0.249 %
Min
Ratio
Max
Ratio
TENDL Threshold 927.34 keV
JEFF3.3 Threshold 927.34 keV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
10^6
10^7
10^8
Incident Energy (eV)
37
52-Te-123

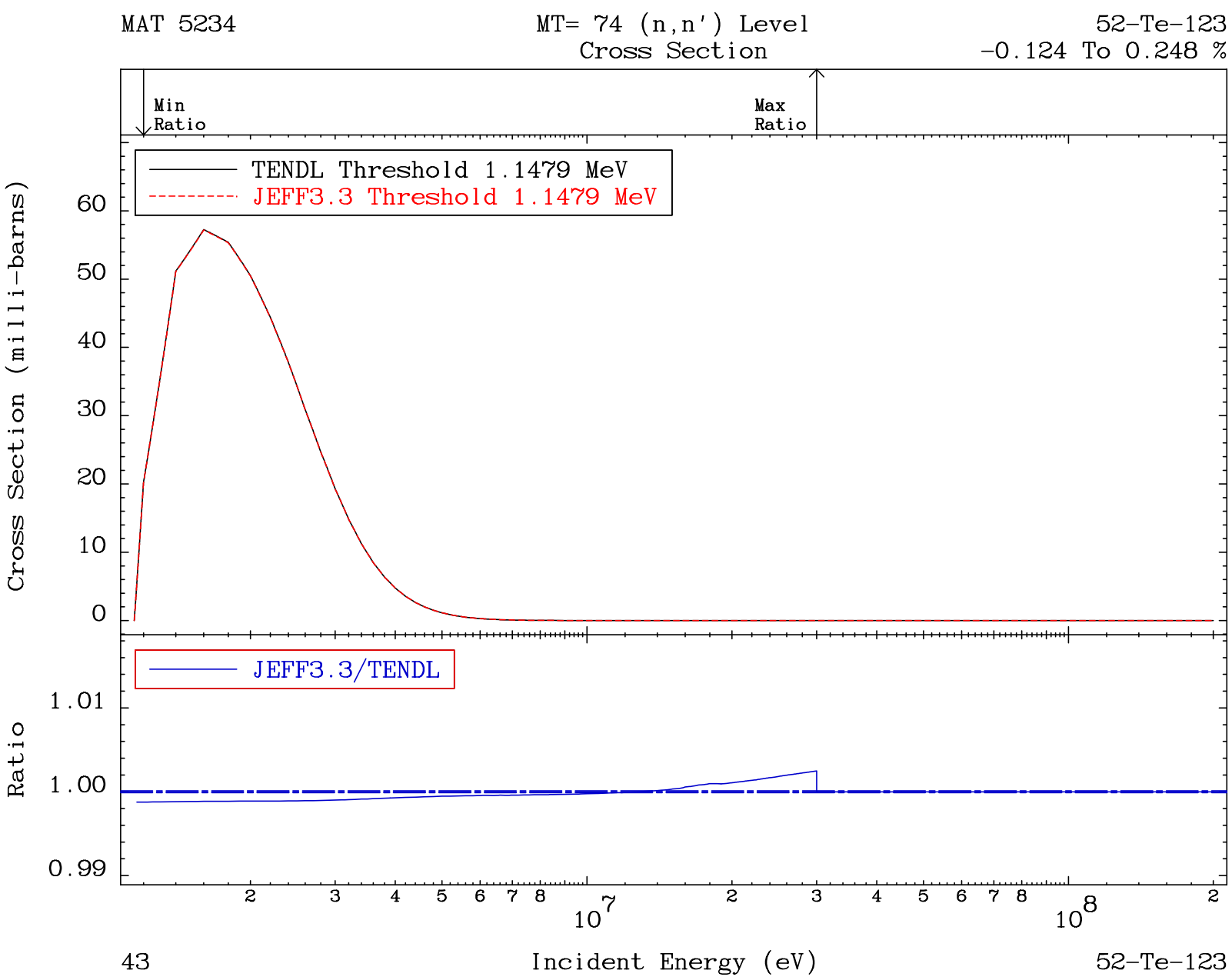

MAT 5234
MT= 69 (n,n') Level
Cross Section
52-Te-123
-0.139 To 0.248 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0042 MeV
JEFF3.3 Threshold 1.0042 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
38
Incident Energy (eV)
52-Te-123

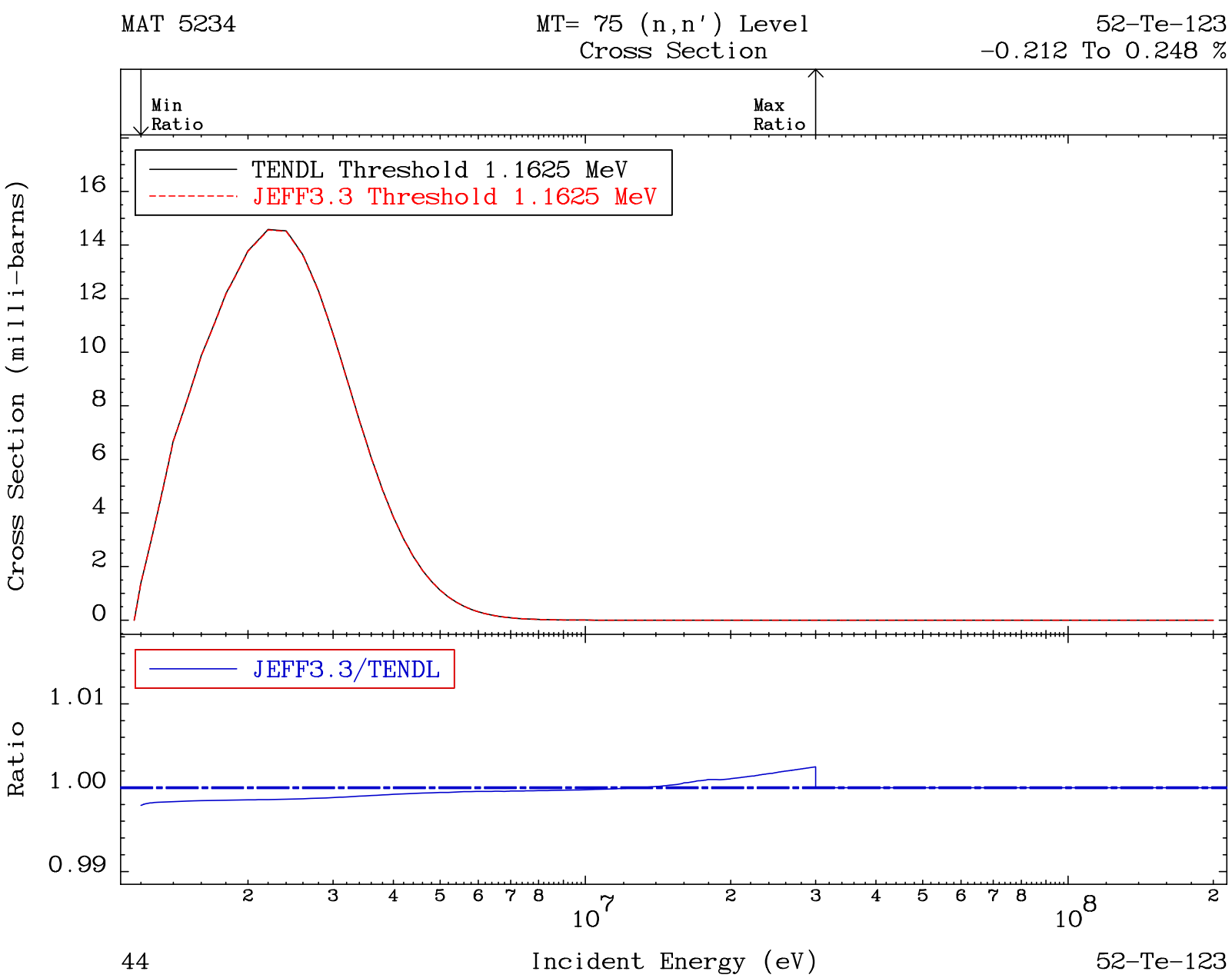

MAT 5234
MT= 70 (n,n') Level
Cross Section
52-Te-123
-0.122 To 0.248 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0452 MeV
JEFF3.3 Threshold 1.0452 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
39
Incident Energy (eV)
52-Te-123

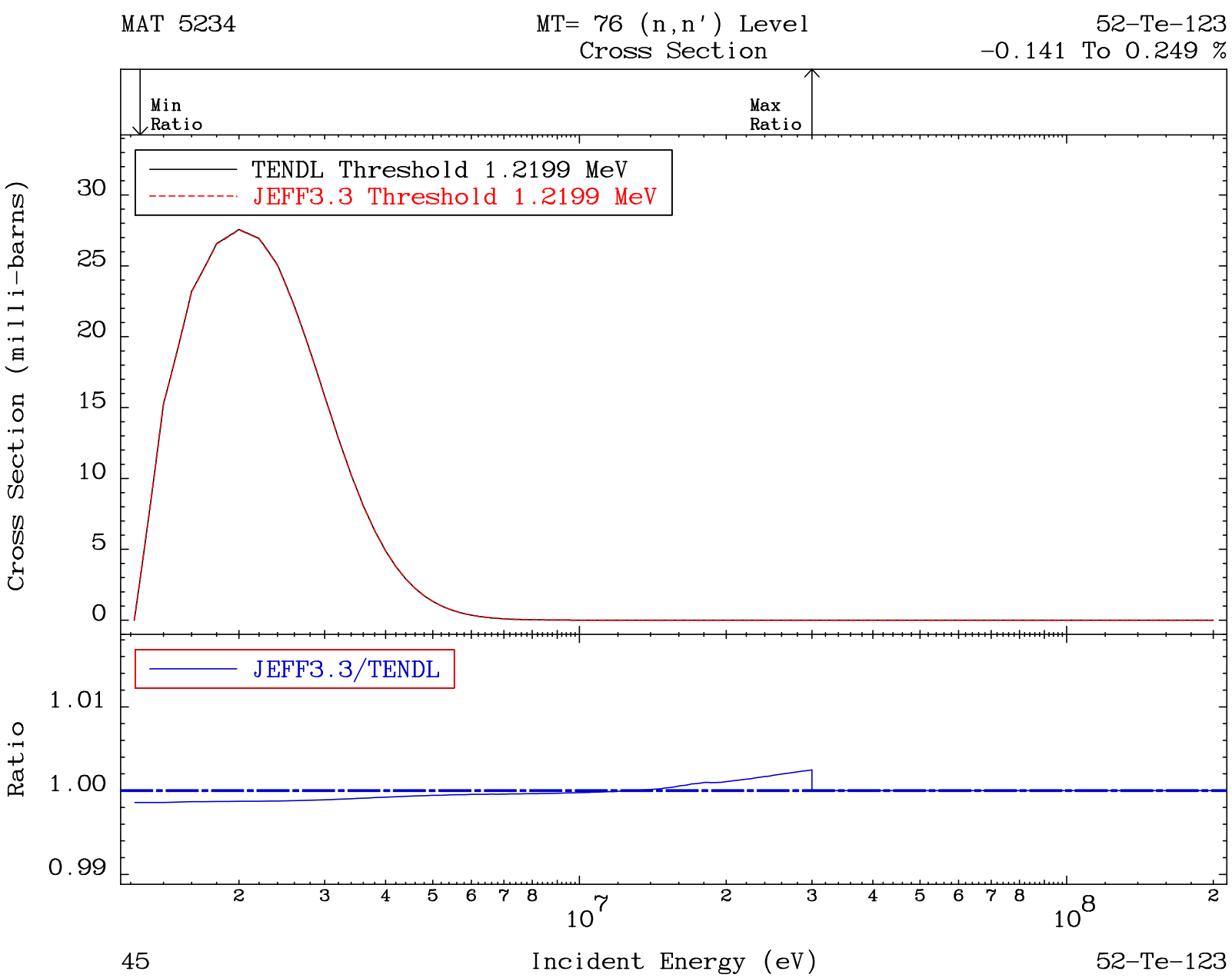

MAT 5234
MT= 71 (n,n') Level
Cross Section
52-Te-123
-0.137 To 0.248 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0770 MeV
JEFF3.3 Threshold 1.0770 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
40
Incident Energy (eV)
52-Te-123

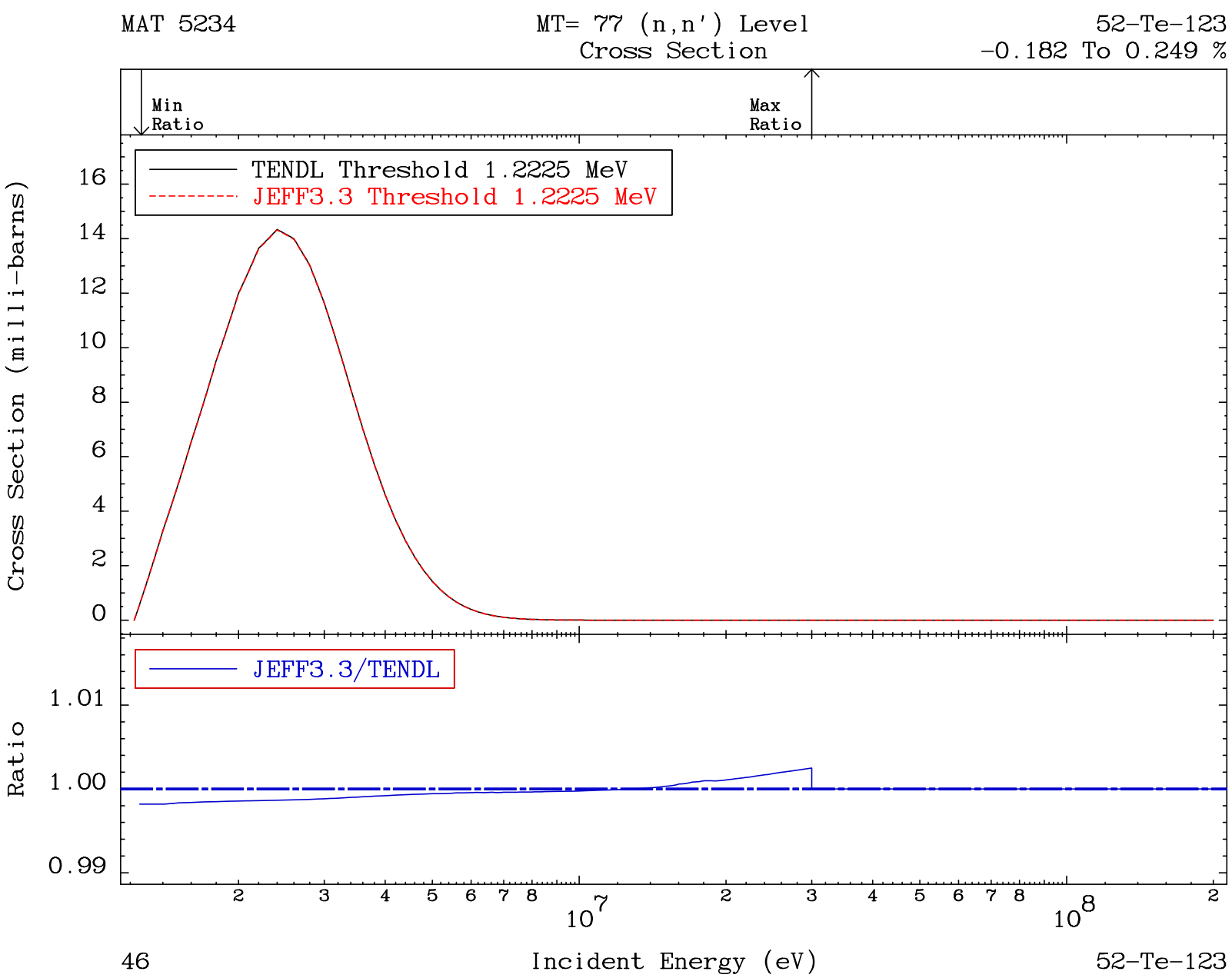

MAT 5234
MT= 72 (n,n') Level
Cross Section
52-Te-123
-0.225 To 0.248 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0906 MeV
JEFF3.3 Threshold 1.0906 MeV
Cross Section (milli-barns)
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
41
Incident Energy (eV)
52-Te-123

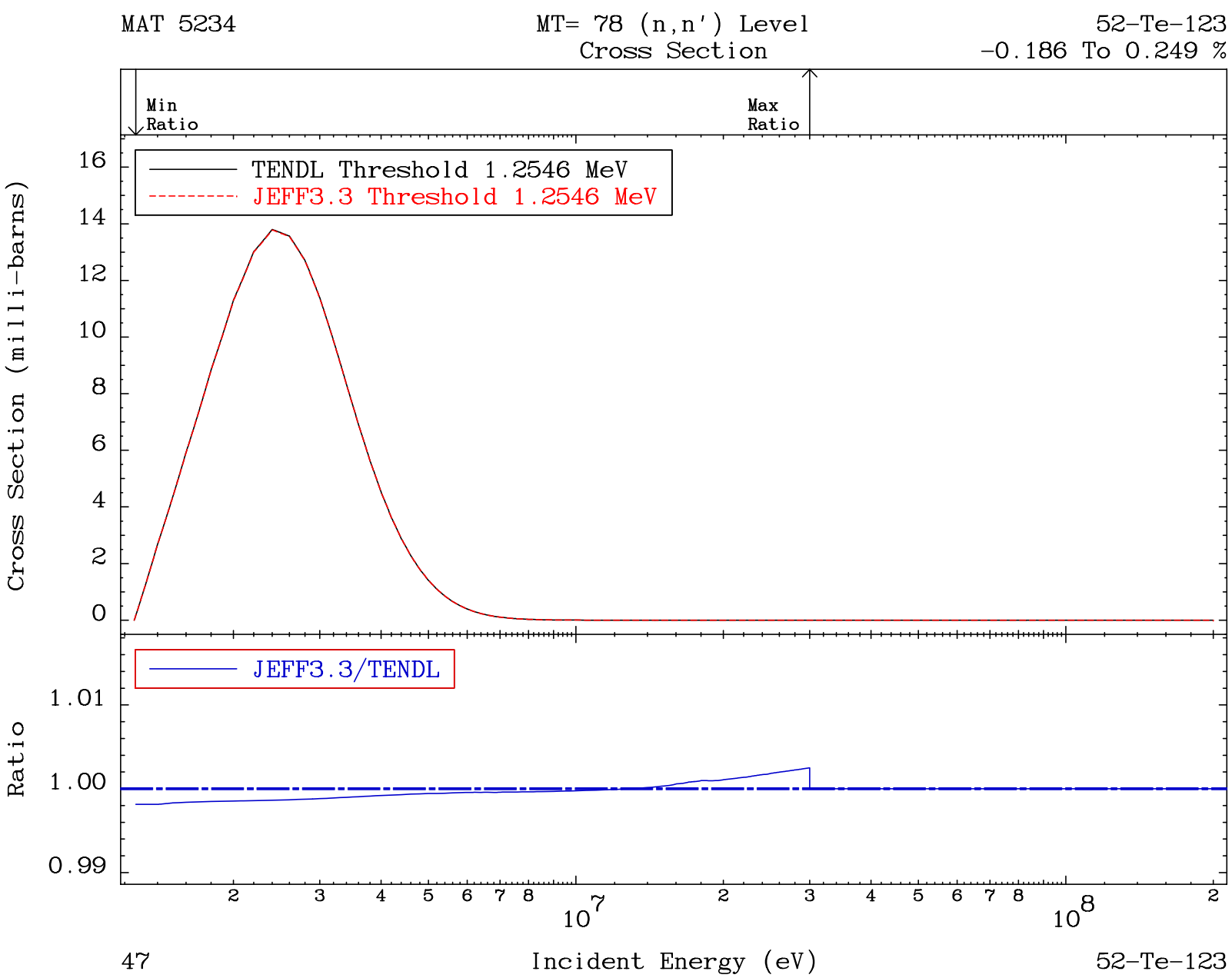

MAT 5234
MT= 73 (n,n') Level
Cross Section
52-Te-123
-0.157 To 0.248 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.1068 MeV
JEFF3.3 Threshold 1.1068 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
42
Incident Energy (eV)
52-Te-123

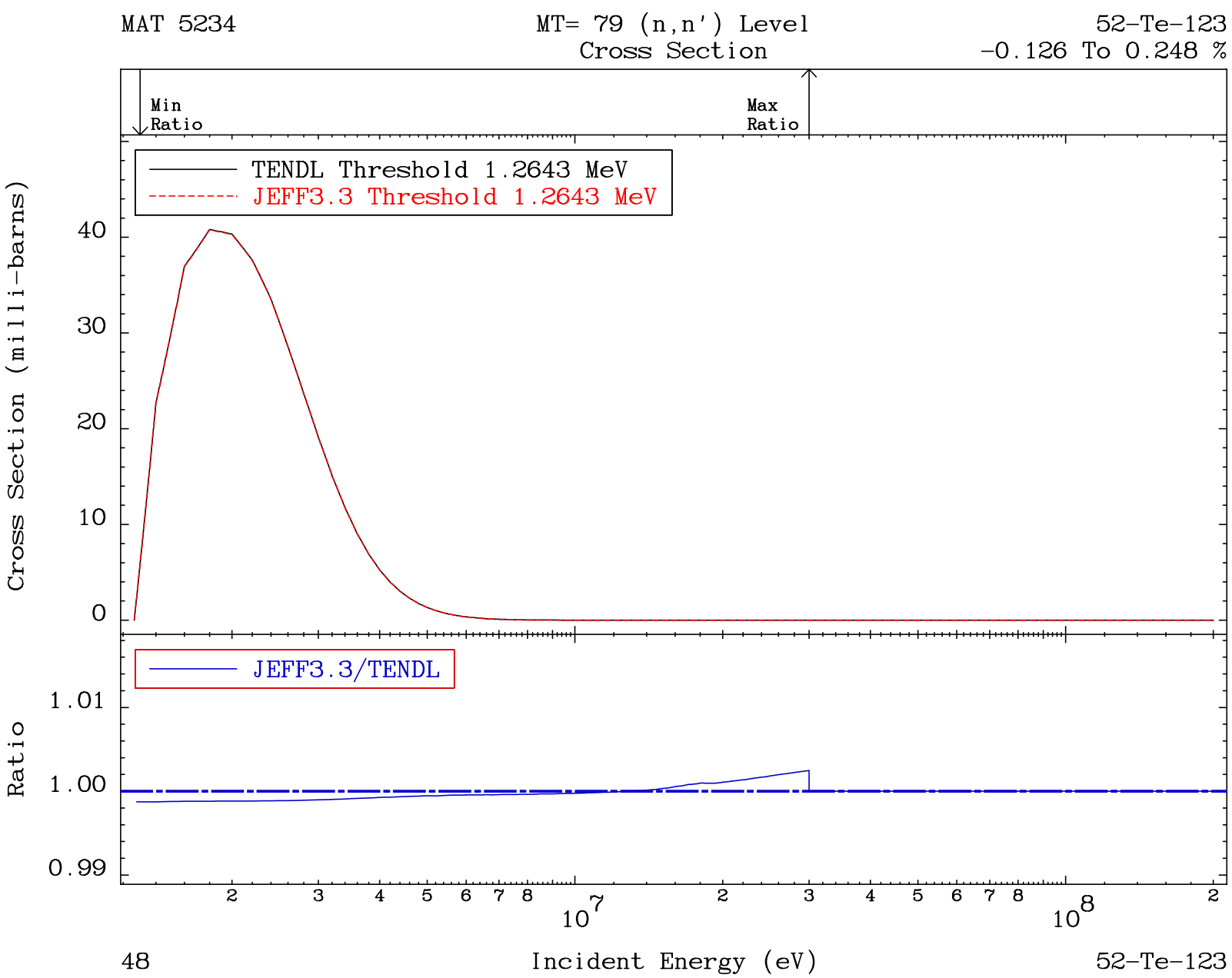

MAT 5234
MT= 74 (n,n') Level
Cross Section
52-Te-123
-0.124 To 0.248 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.1479 MeV
JEFF3.3 Threshold 1.1479 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
43
Incident Energy (eV)
52-Te-123

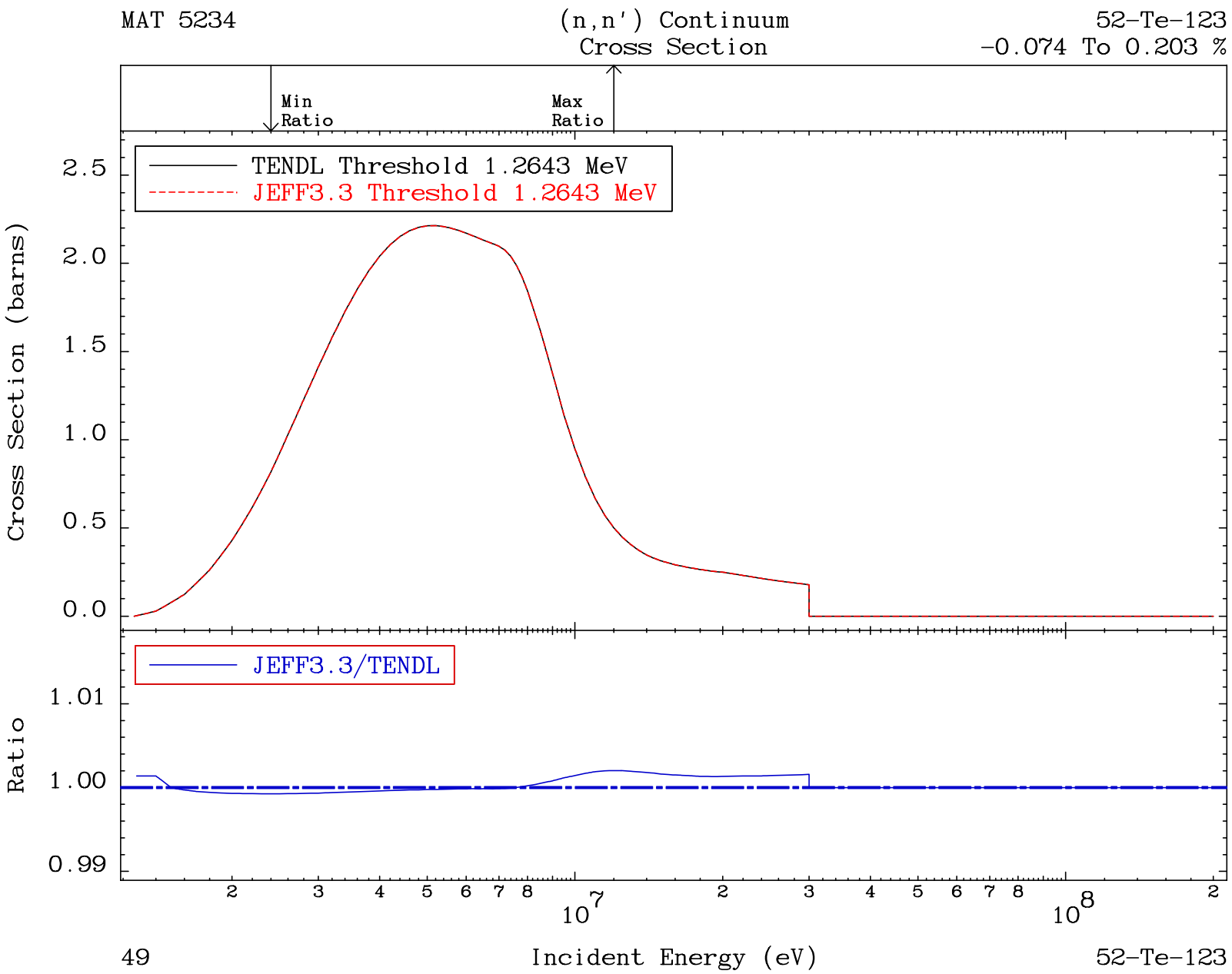

MAT 5234
MT= 75 (n,n') Level
Cross Section
52-Te-123
-0.212 To 0.248 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.1625 MeV
JEFF3.3 Threshold 1.1625 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
44
Incident Energy (eV)
52-Te-123

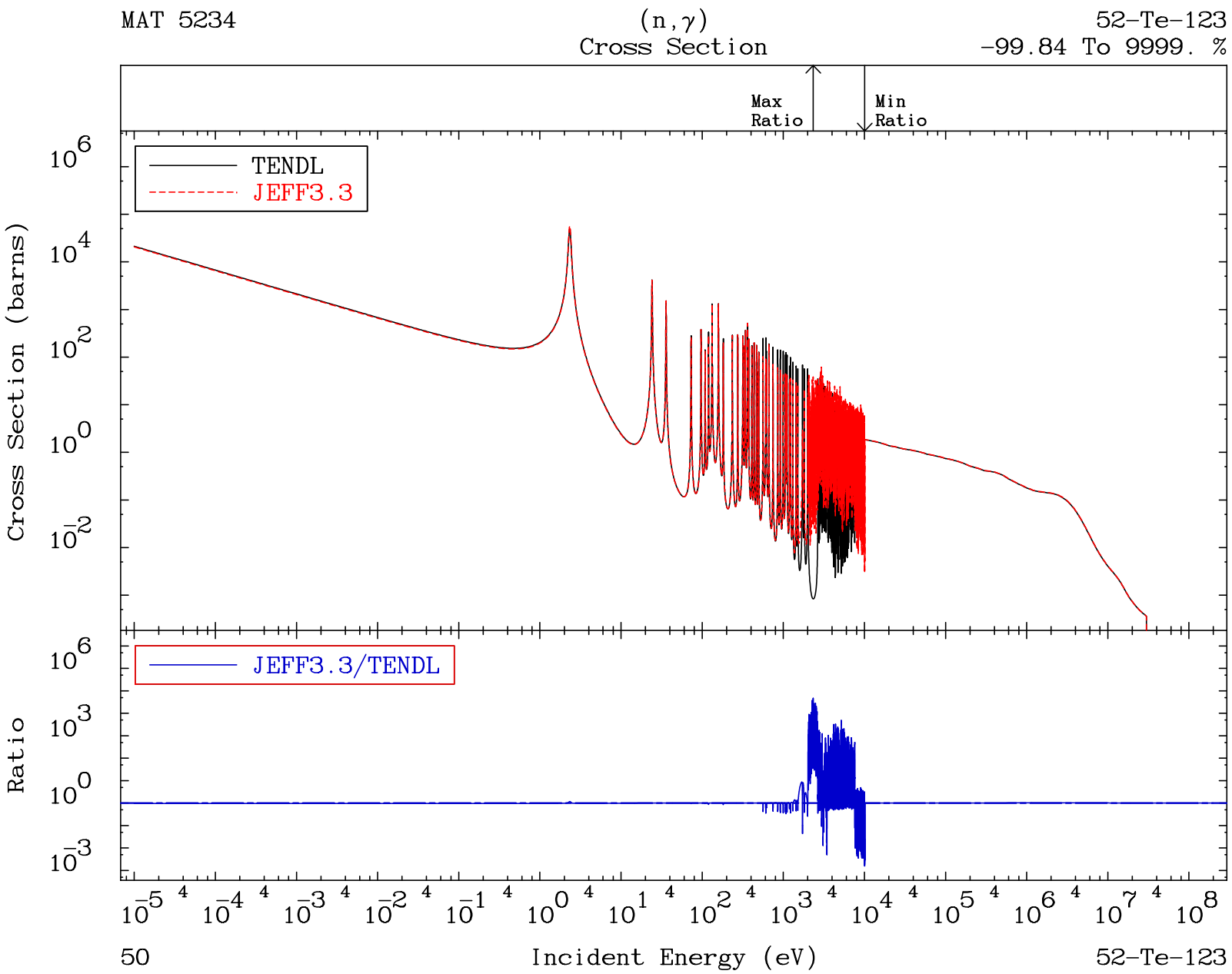

MAT 5234
MT= 76 (n,n') Level
Cross Section
52-Te-123
-0.141 To 0.249 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.2199 MeV
JEFF3.3 Threshold 1.2199 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
45
Incident Energy (eV)
52-Te-123

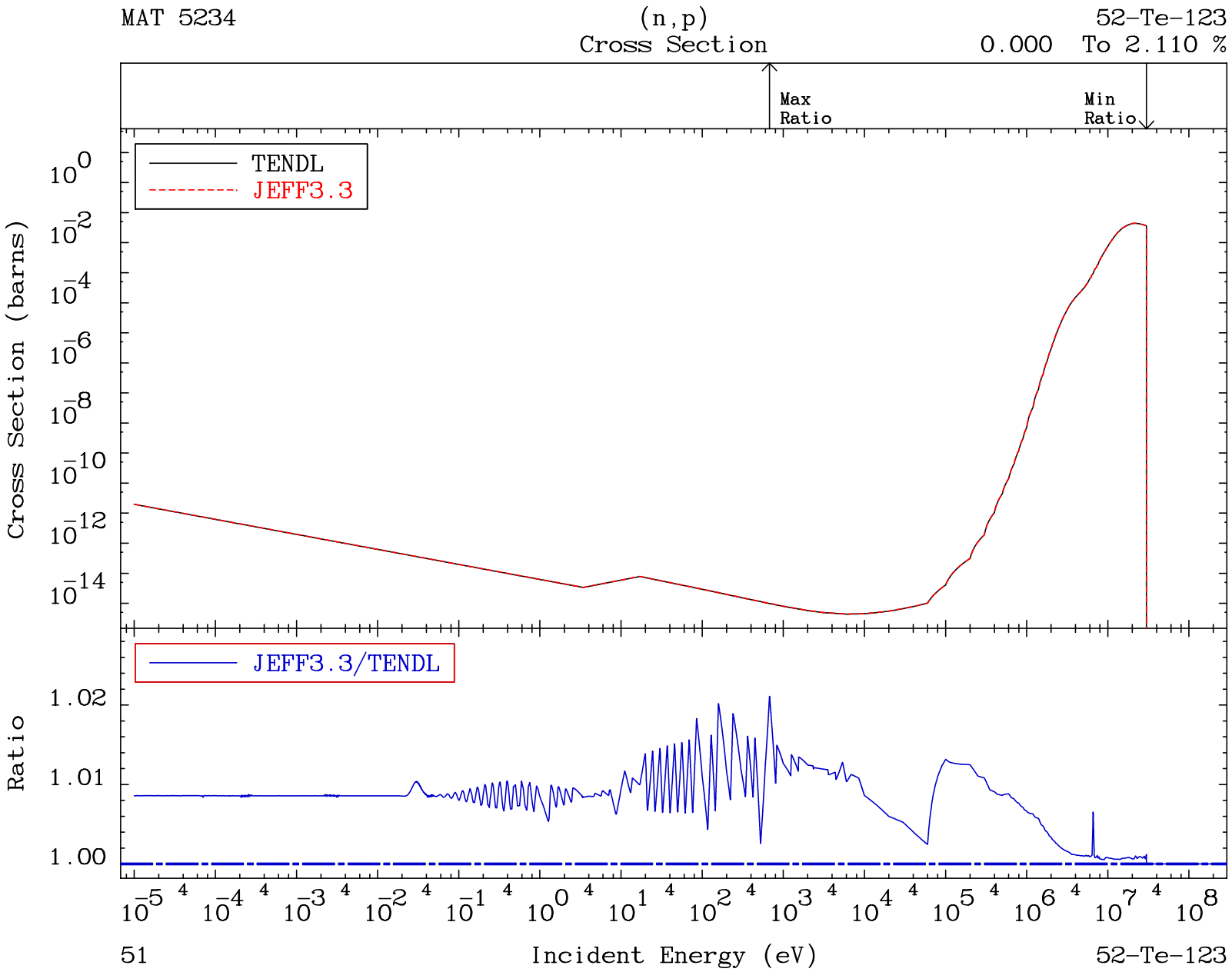

MAT 5234
MT= 77 (n,n') Level
Cross Section
52-Te-123
-0.182 To 0.249 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.2225 MeV
JEFF3.3 Threshold 1.2225 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
46
Incident Energy (eV)
52-Te-123

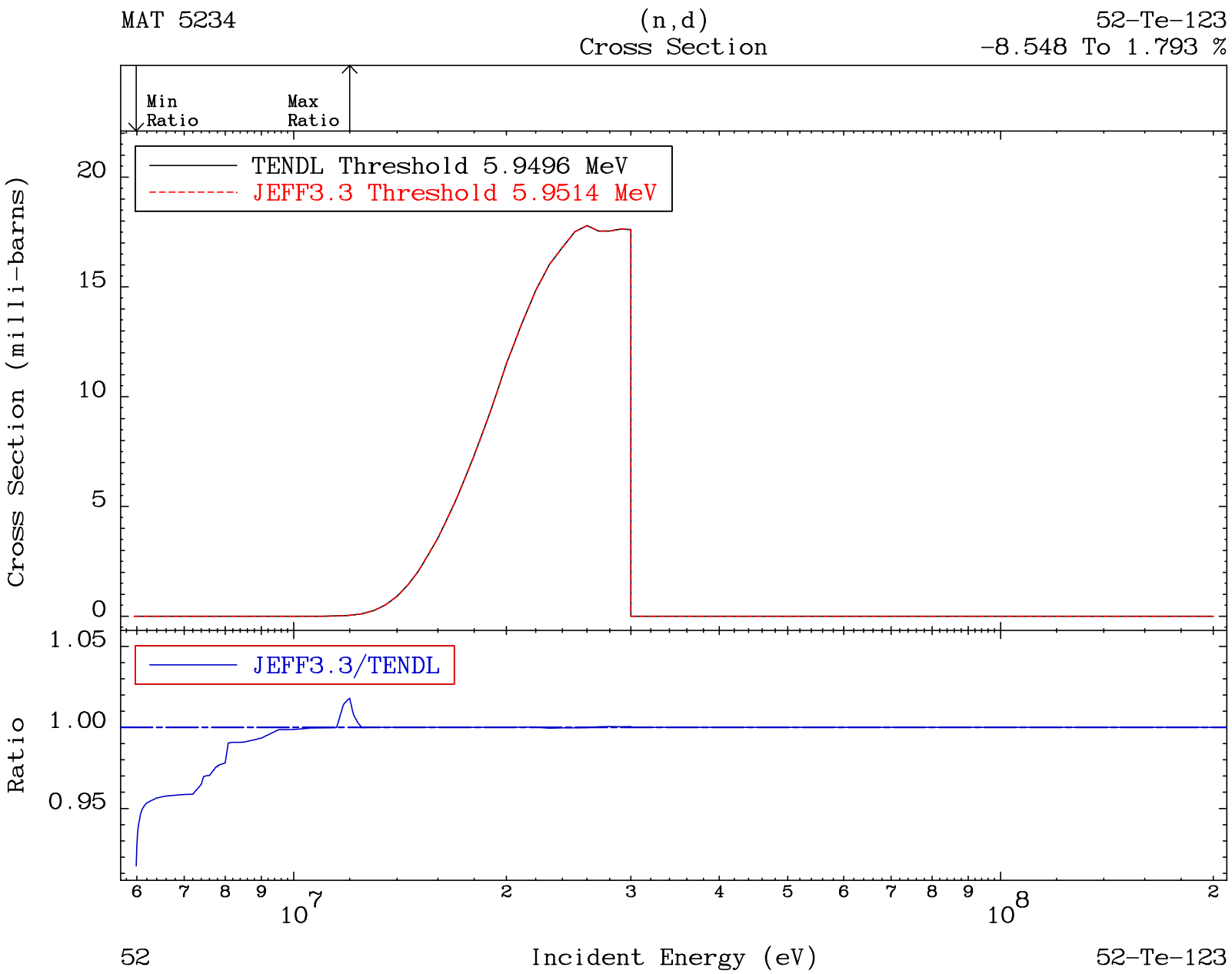

MAT 5234
MT= 78 (n,n') Level
Cross Section
52-Te-123
-0.186 To 0.249 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.2546 MeV
JEFF3.3 Threshold 1.2546 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
47
Incident Energy (eV)
52-Te-123

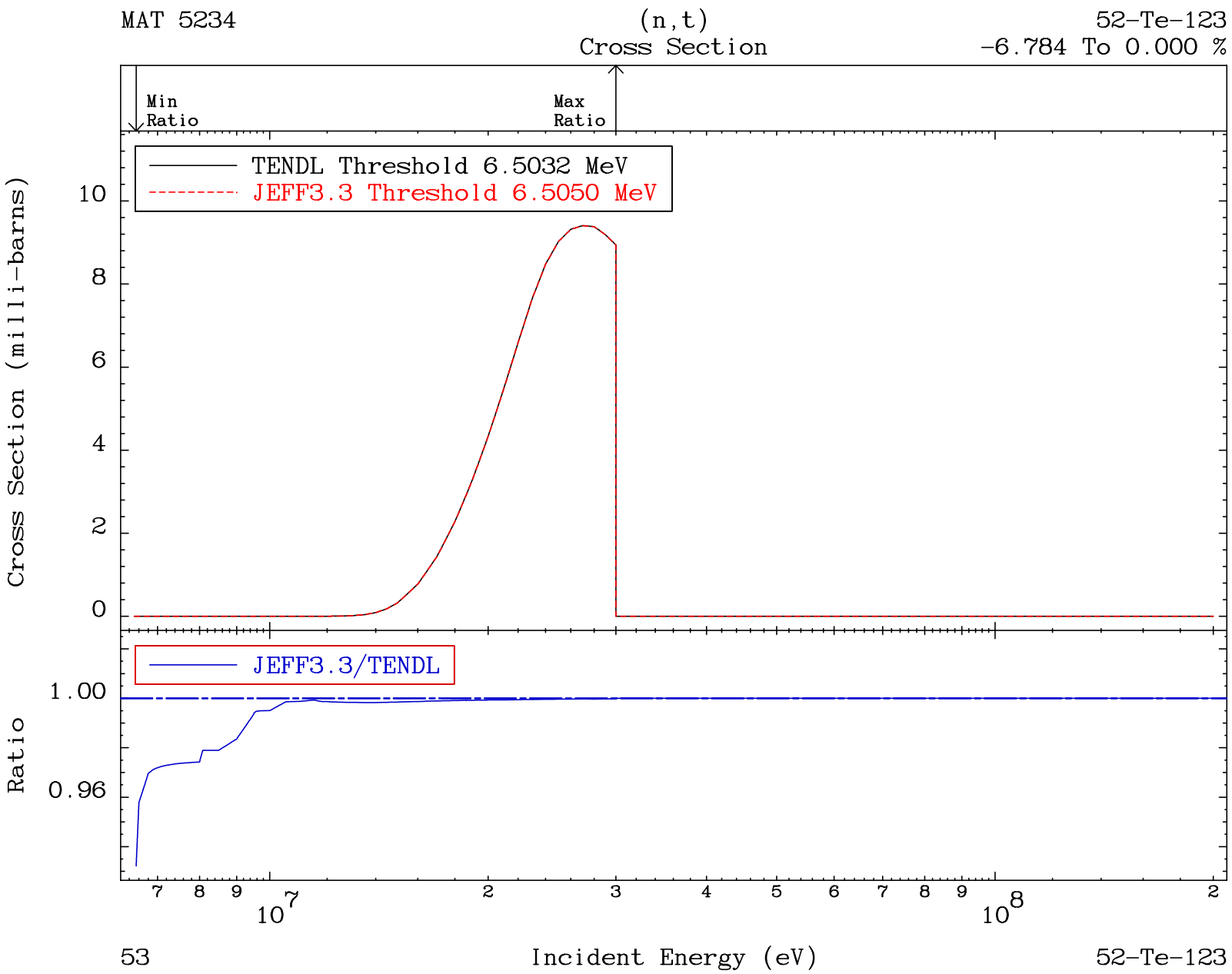

MAT 5234
MT= 79 (n,n') Level
Cross Section
52-Te-123
-0.126 To 0.248 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.2643 MeV
JEFF3.3 Threshold 1.2643 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
48
Incident Energy (eV)
52-Te-123

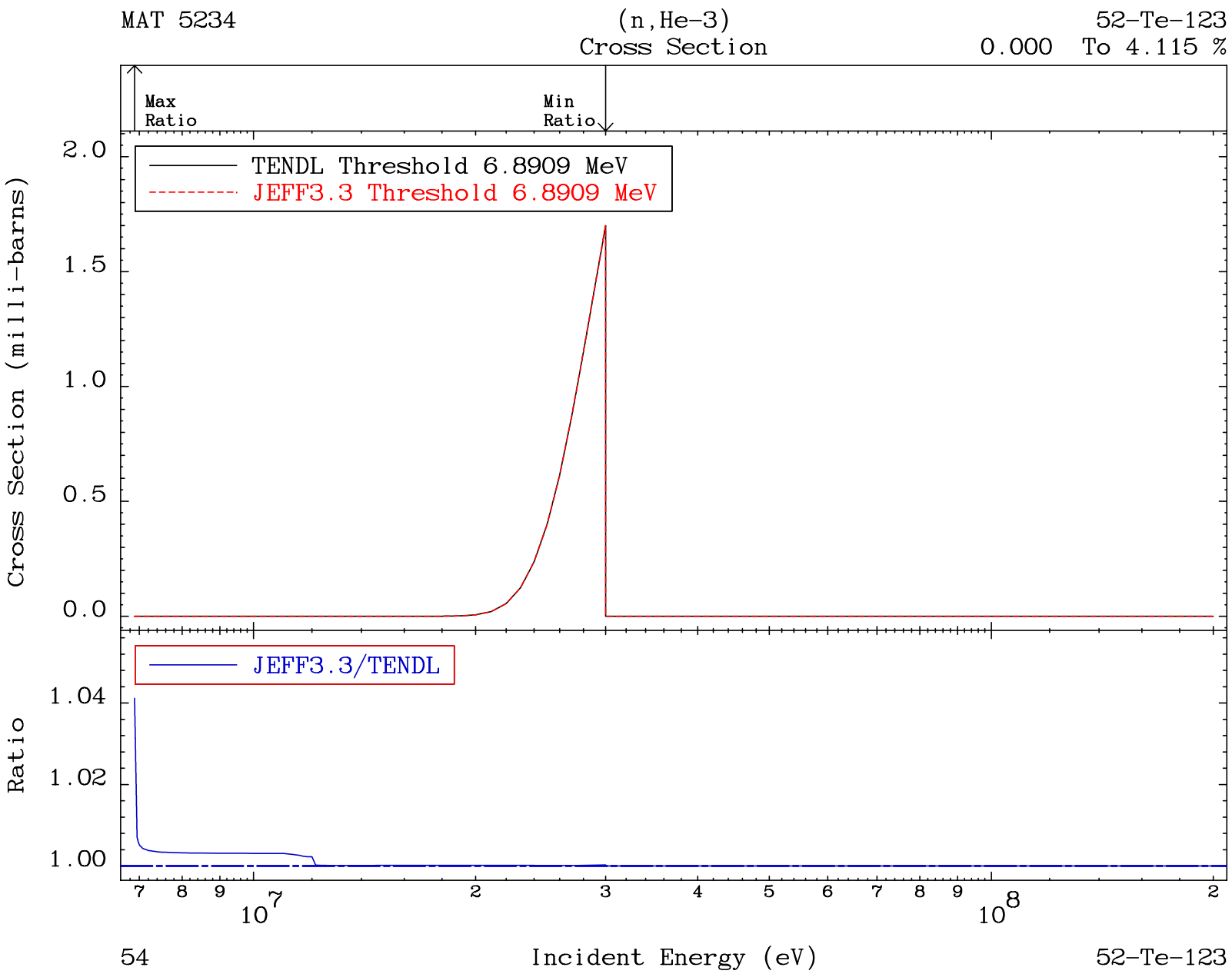

MAT 5234
(n,n') Continuum
Cross Section
52-Te-123
-0.074 To 0.203 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.2643 MeV
JEFF3.3 Threshold 1.2643 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
49
Incident Energy (eV)
52-Te-123

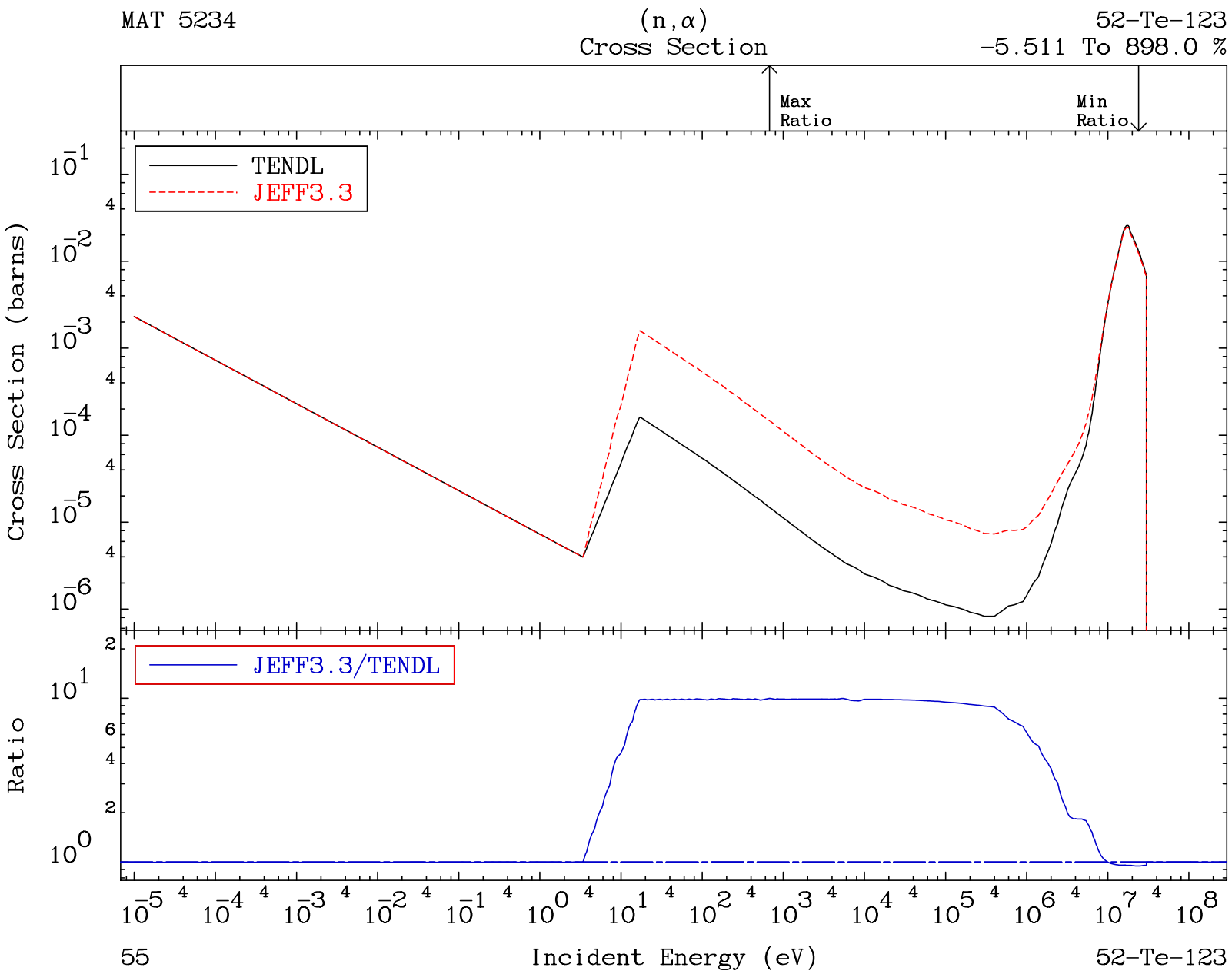

MAT 5234
(n,γ)
Cross Section
52-Te-123
-99.84 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
50
52-Te-123

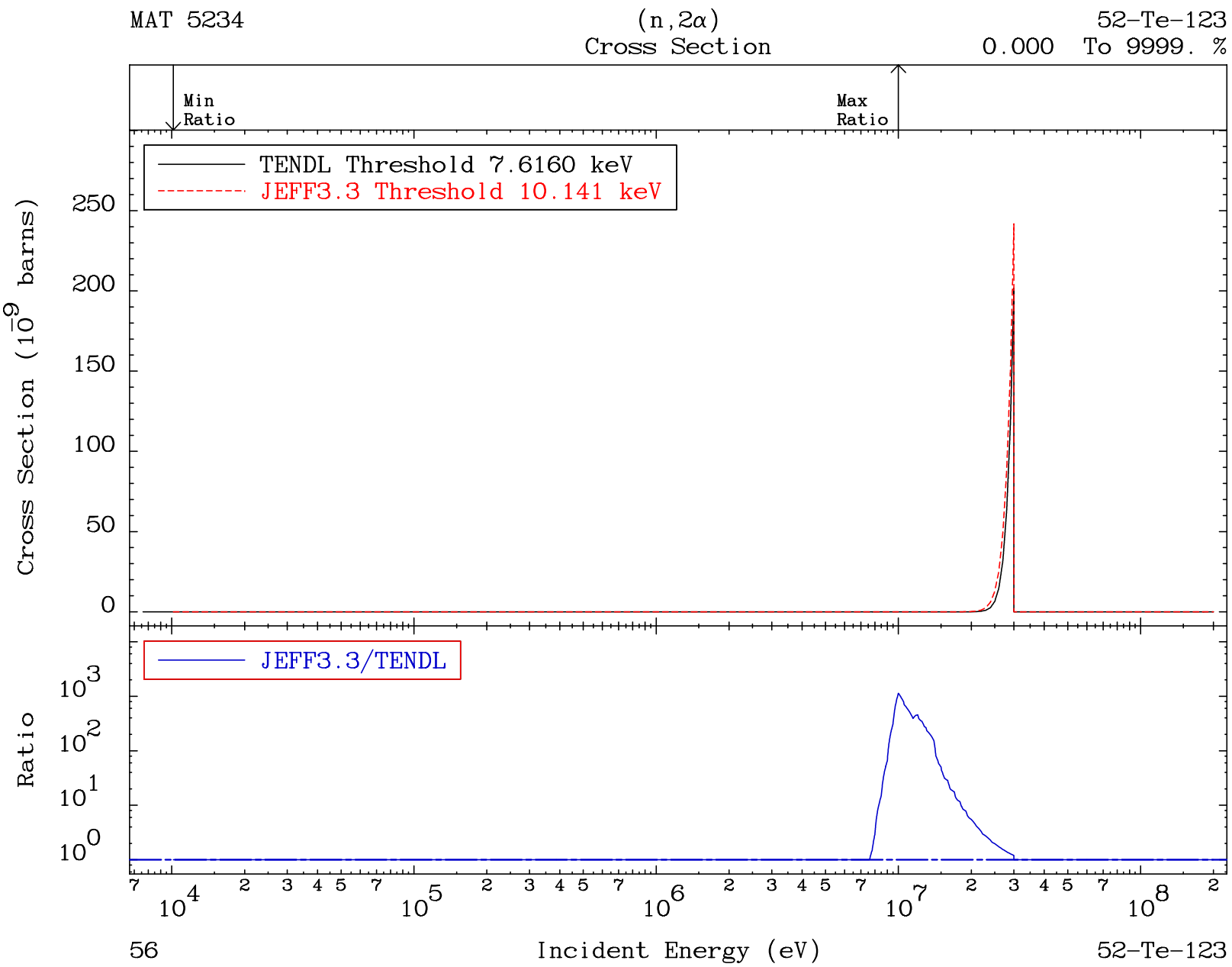

MAT 5234
(n,p)
Cross Section
52-Te-123
0.000 To 2.110 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
51
52-Te-123

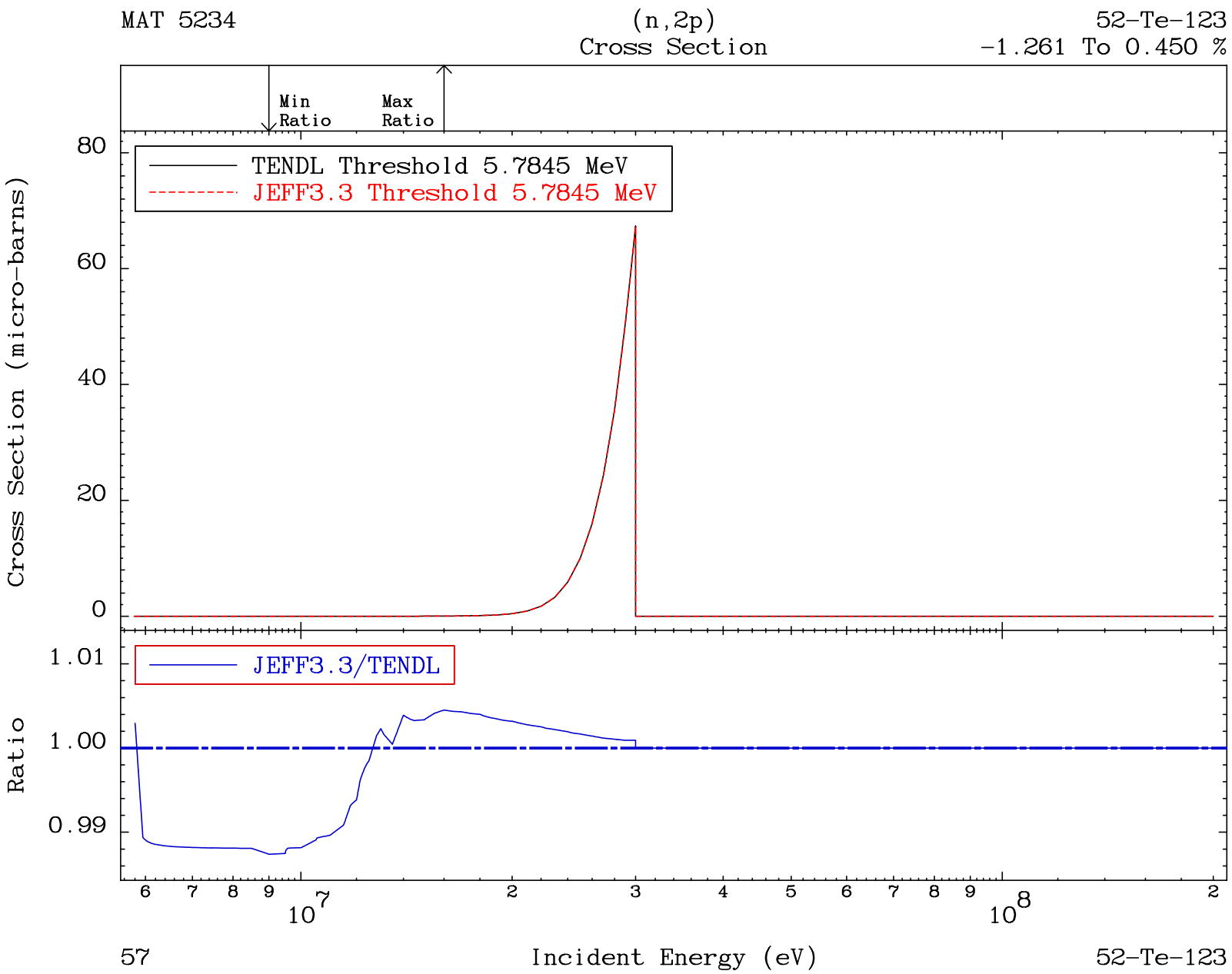

MAT 5234
(n,d)
Cross Section
52-Te-123
-8.548 To 1.793 %
Min Ratio
Max Ratio
TENDL Threshold 5.9496 MeV
JEFF3.3 Threshold 5.9514 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.05
1.00
0.95
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
52
Incident Energy (eV)
52-Te-123

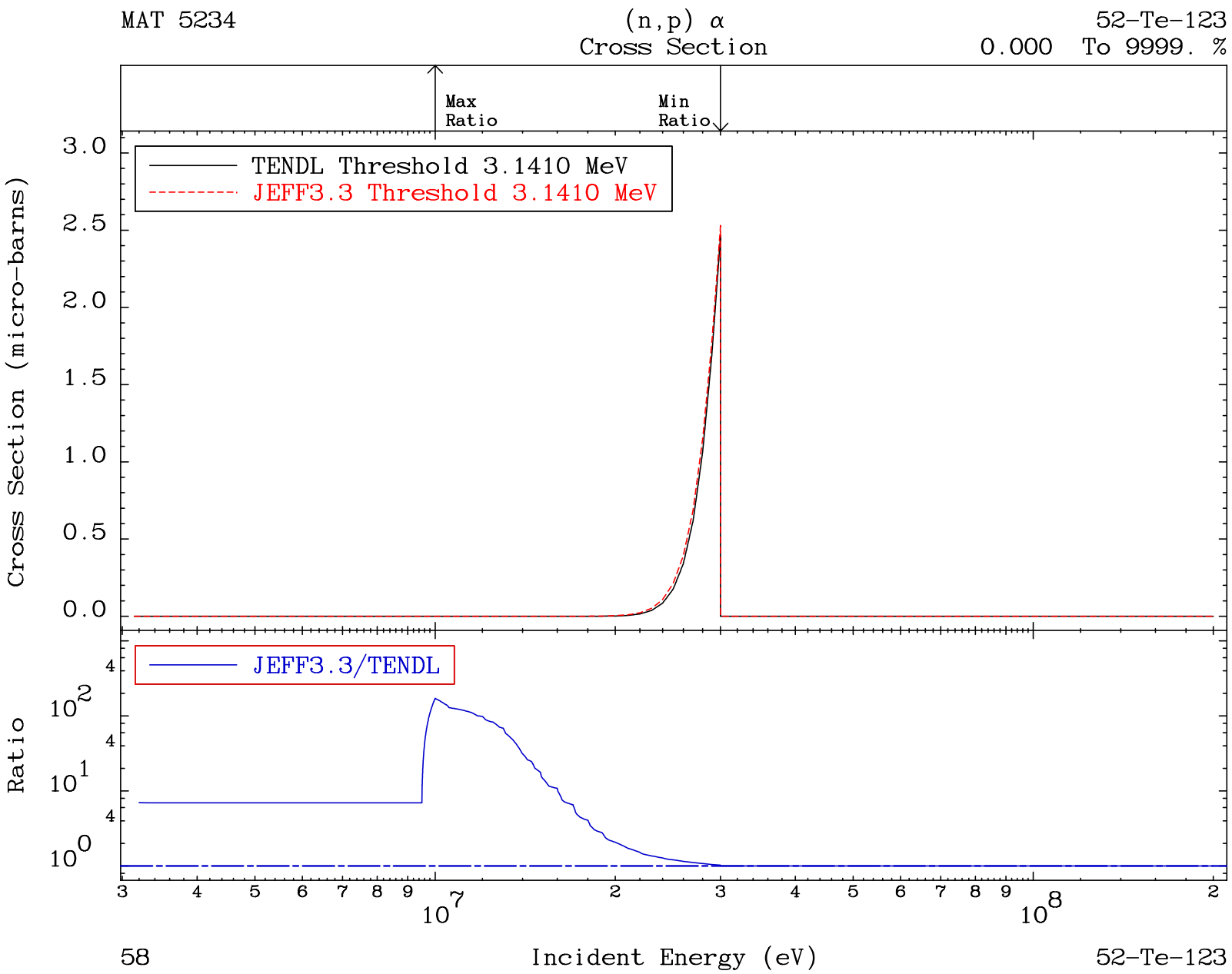

MAT 5234
(n,t)
Cross Section
52-Te-123
-6.784 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 6.5032 MeV
JEFF3.3 Threshold 6.5050 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.00
0.96
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
53
Incident Energy (eV)
52-Te-123

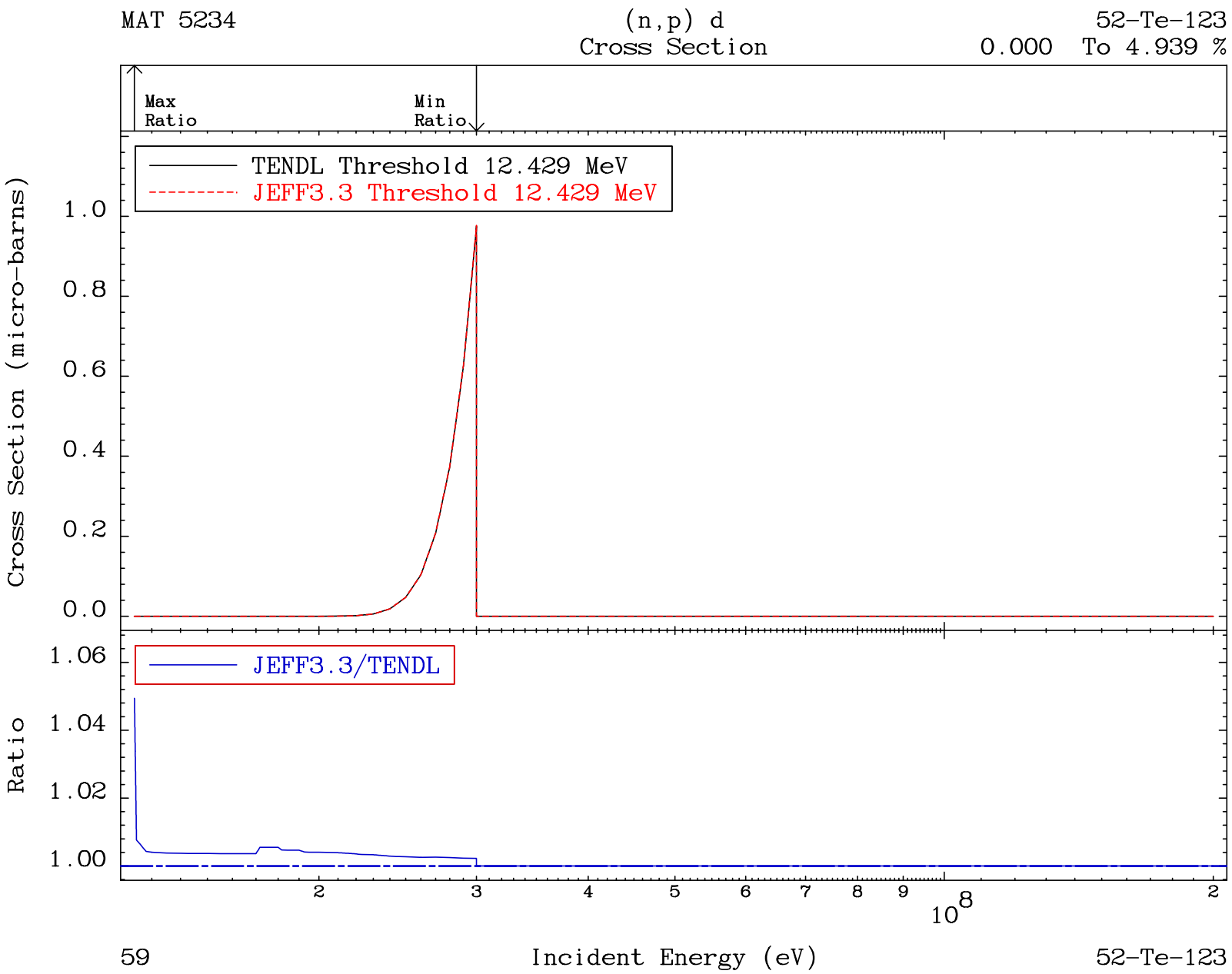

MAT 5234
(n,He-3)
Cross Section
52-Te-123
0.000 To 4.115 %
Max Ratio
Min Ratio
TENDL Threshold 6.8909 MeV
JEFF3.3 Threshold 6.8909 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.04
1.02
1.00
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
54
Incident Energy (eV)
52-Te-123

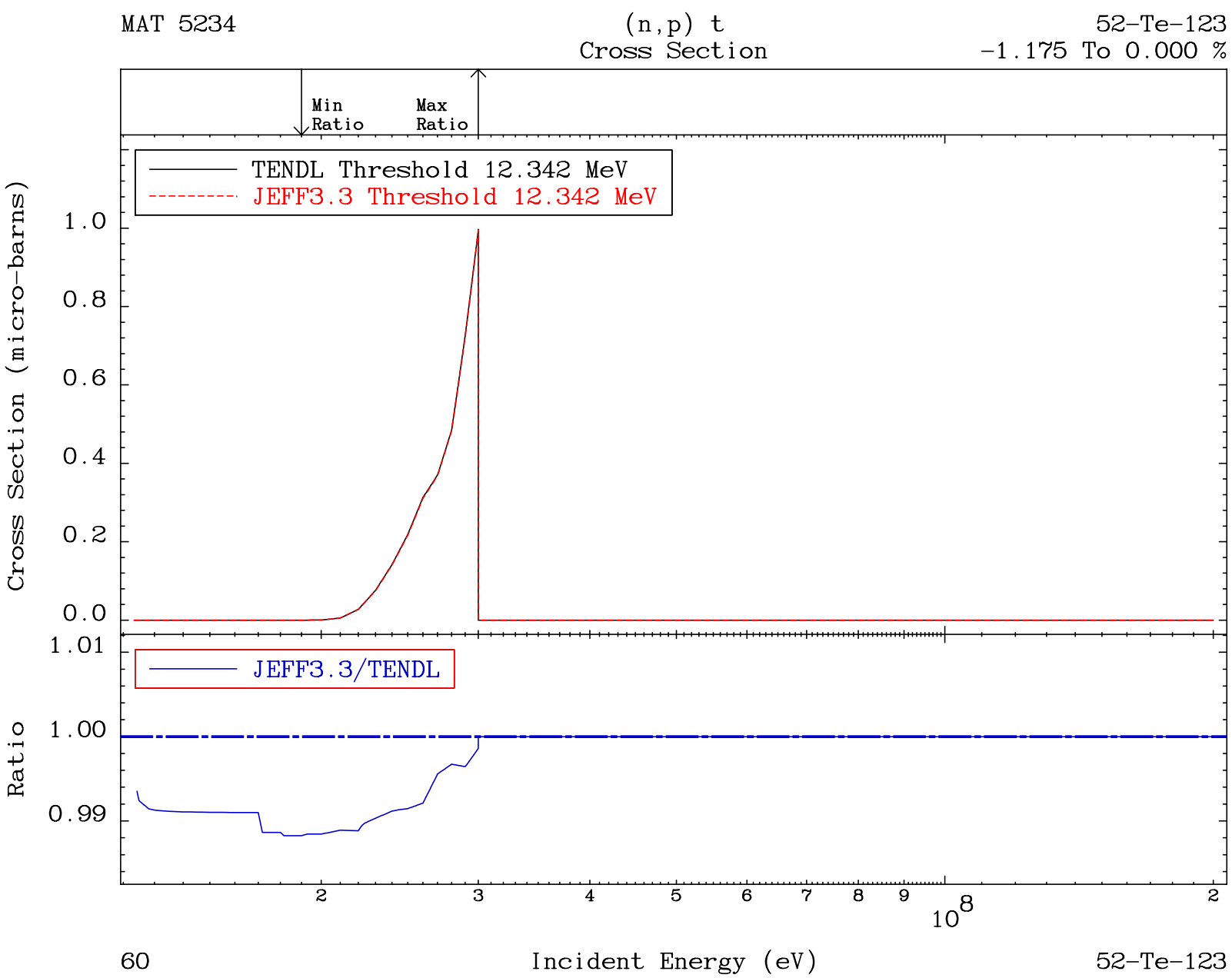

MAT 5234
(n,α)
Cross Section
52-Te-123
-5.511 To 898.0 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
55
Incident Energy (eV)
52-Te-123

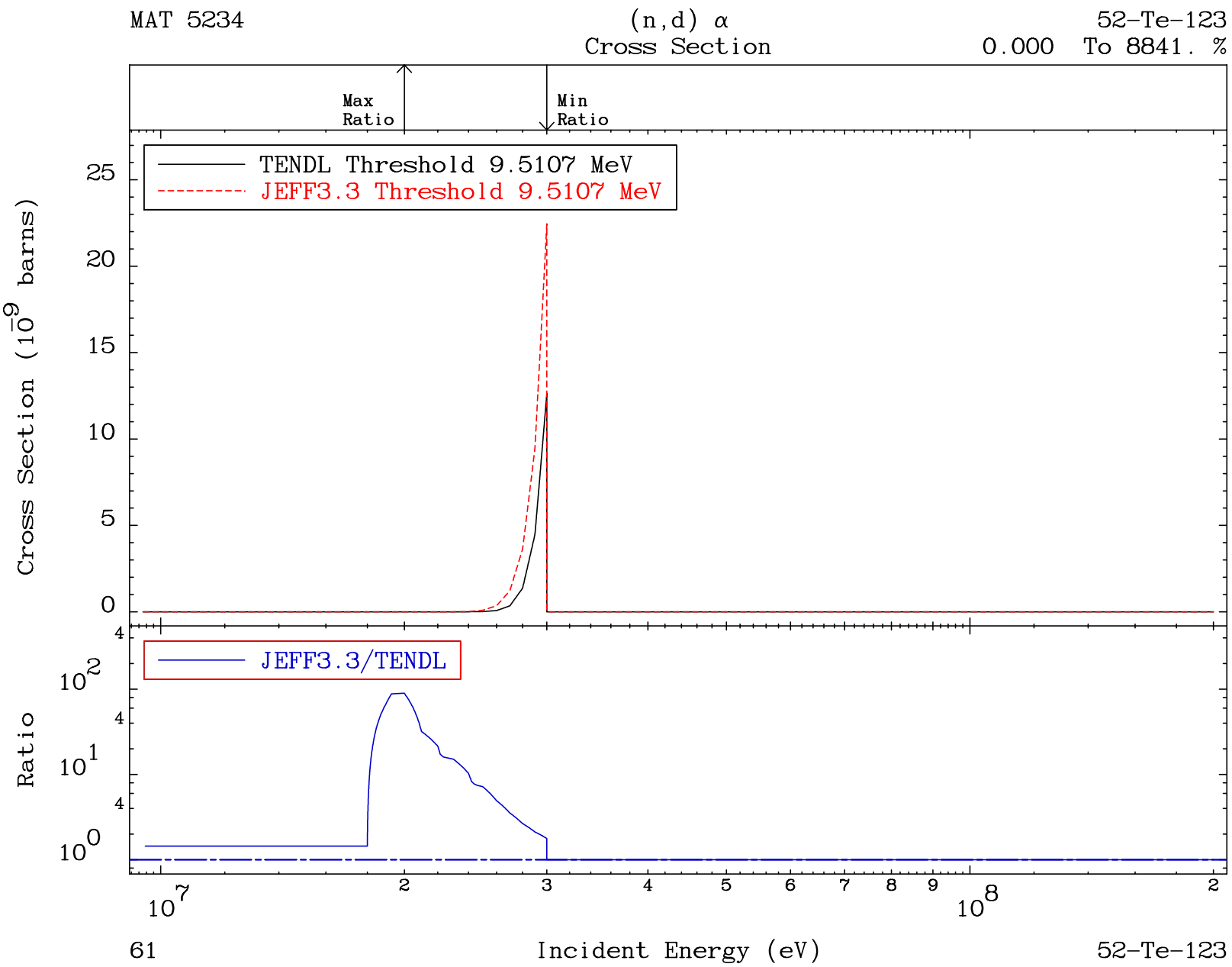

MAT 5234
(n,2α)
Cross Section
52-Te-123
0.000 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.6160 keV
JEFF3.3 Threshold 10.141 keV
Cross Section (10^-9 barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
7 2 3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2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

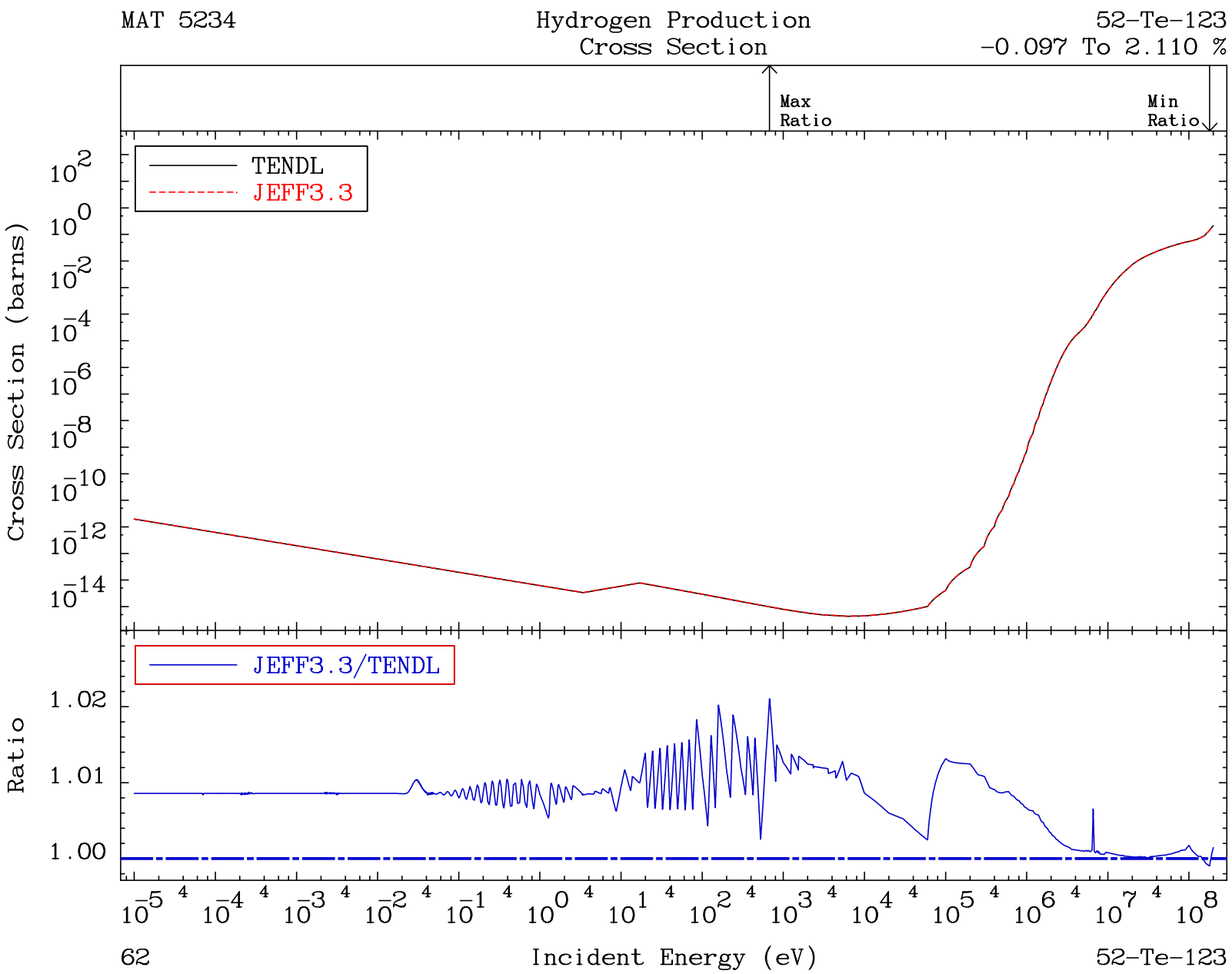

MAT 5234
(n,2p)
Cross Section
52-Te-123
-1.261 To 0.450 %
Min Ratio
Max Ratio
TENDL Threshold 5.7845 MeV
JEFF3.3 Threshold 5.7845 MeV
Cross Section (micro-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
57
Incident Energy (eV)
52-Te-123

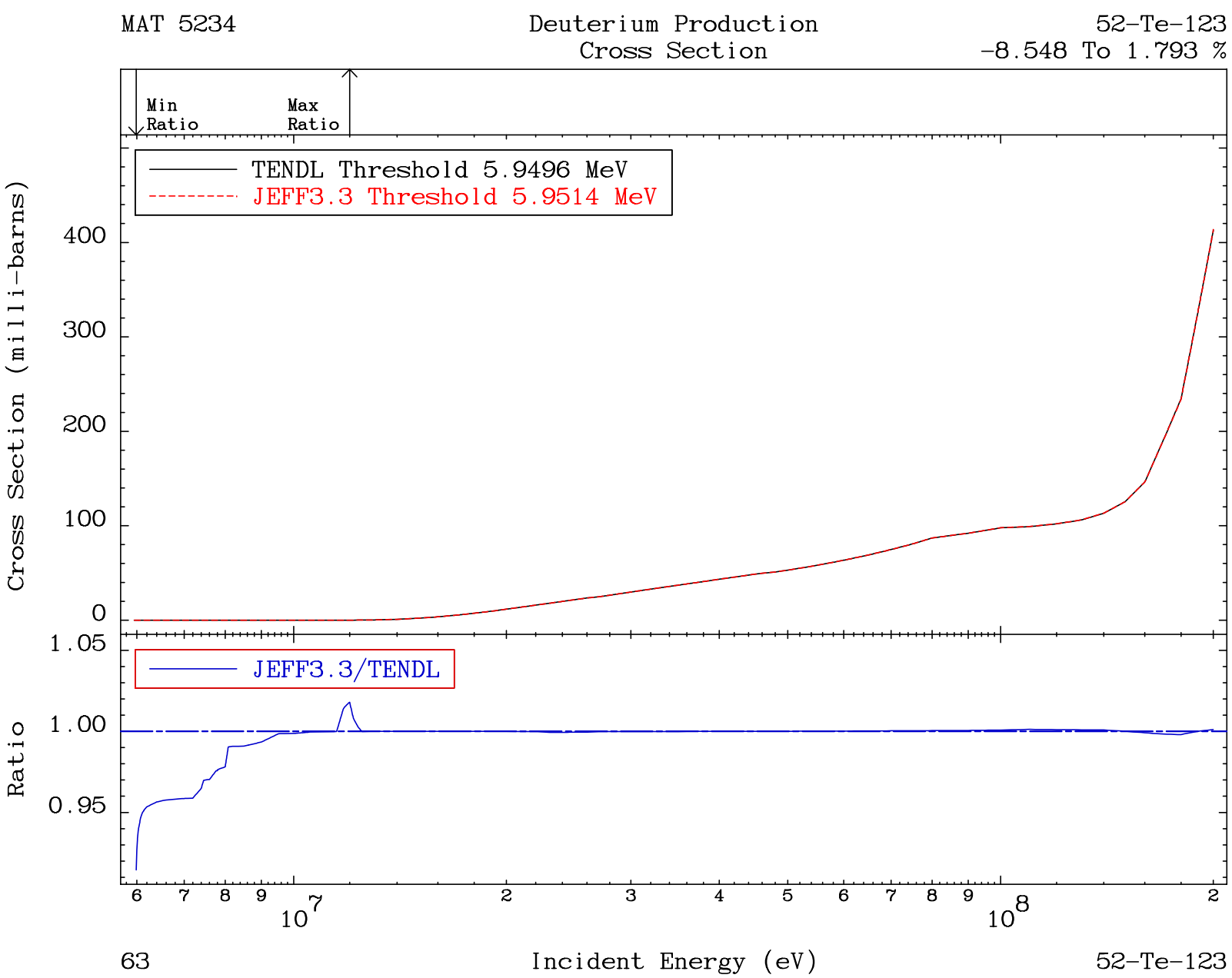

MAT 5234
(n,p) α
Cross Section
52-Te-123
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.1410 MeV
JEFF3.3 Threshold 3.1410 MeV
Cross Section (micro-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^2
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
58
Incident Energy (eV)
52-Te-123

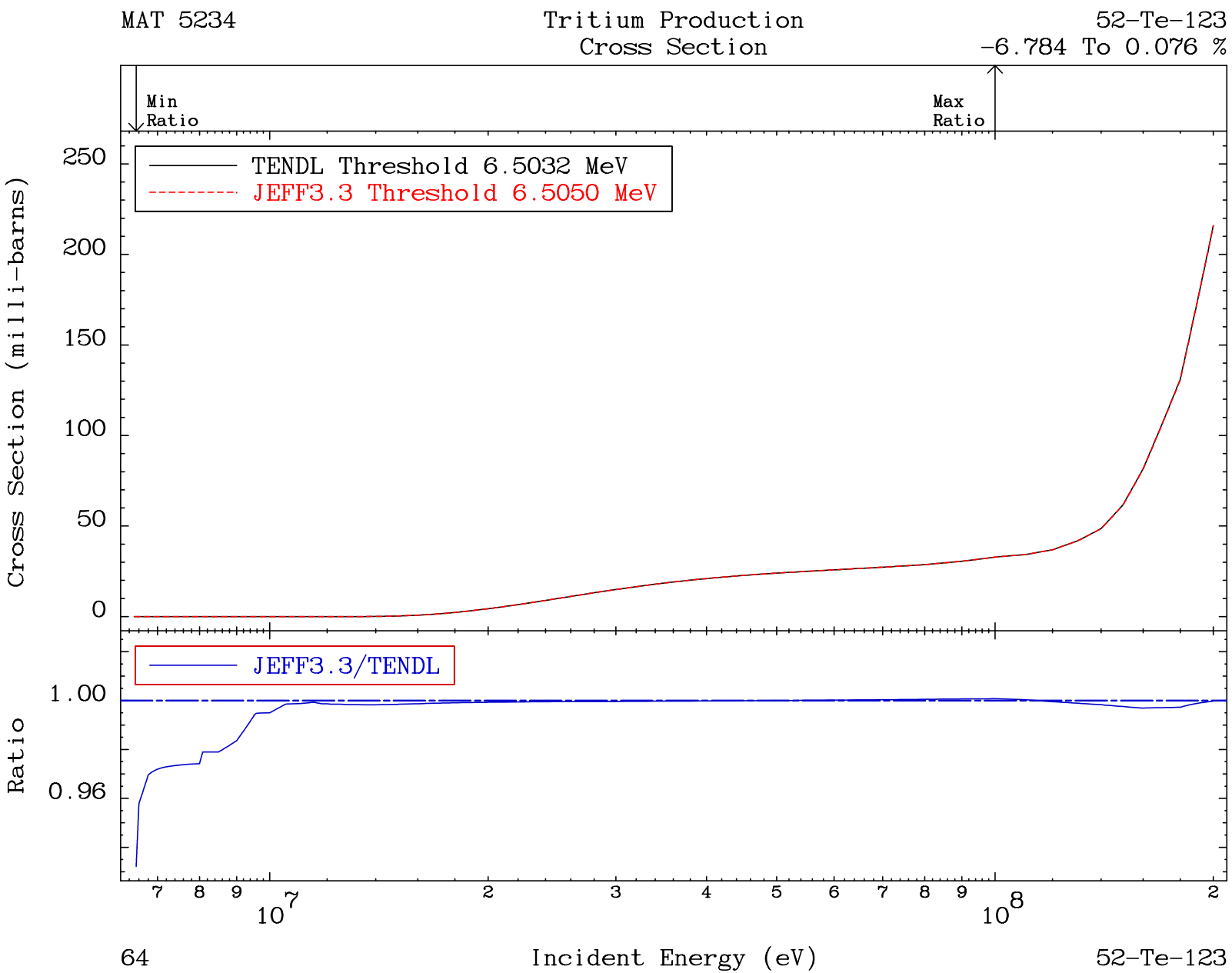

MAT 5234
(n,p) d
Cross Section
52-Te-123
0.000 To 4.939 %
Max Ratio
Min Ratio
TENDL Threshold 12.429 MeV
JEFF3.3 Threshold 12.429 MeV
Cross Section (micro-barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.06
1.04
1.02
1.00
2
3
4
5
6
7
8
9
10^8
2
59
Incident Energy (eV)
52-Te-123

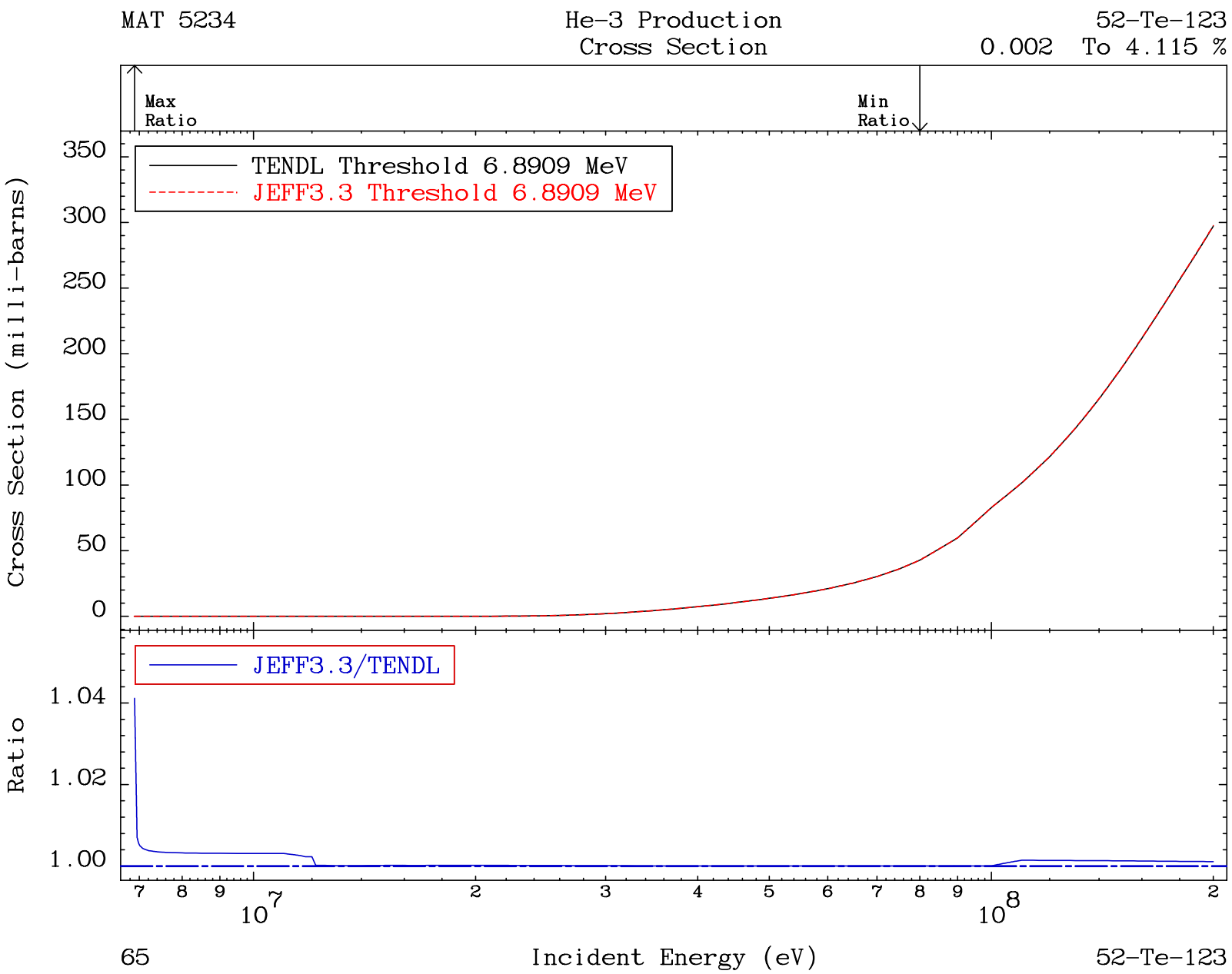

MAT 5234
(n,p) t
Cross Section
52-Te-123
-1.175 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 12.342 MeV
JEFF3.3 Threshold 12.342 MeV
Cross Section (micro-barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
60
Incident Energy (eV)
52-Te-123

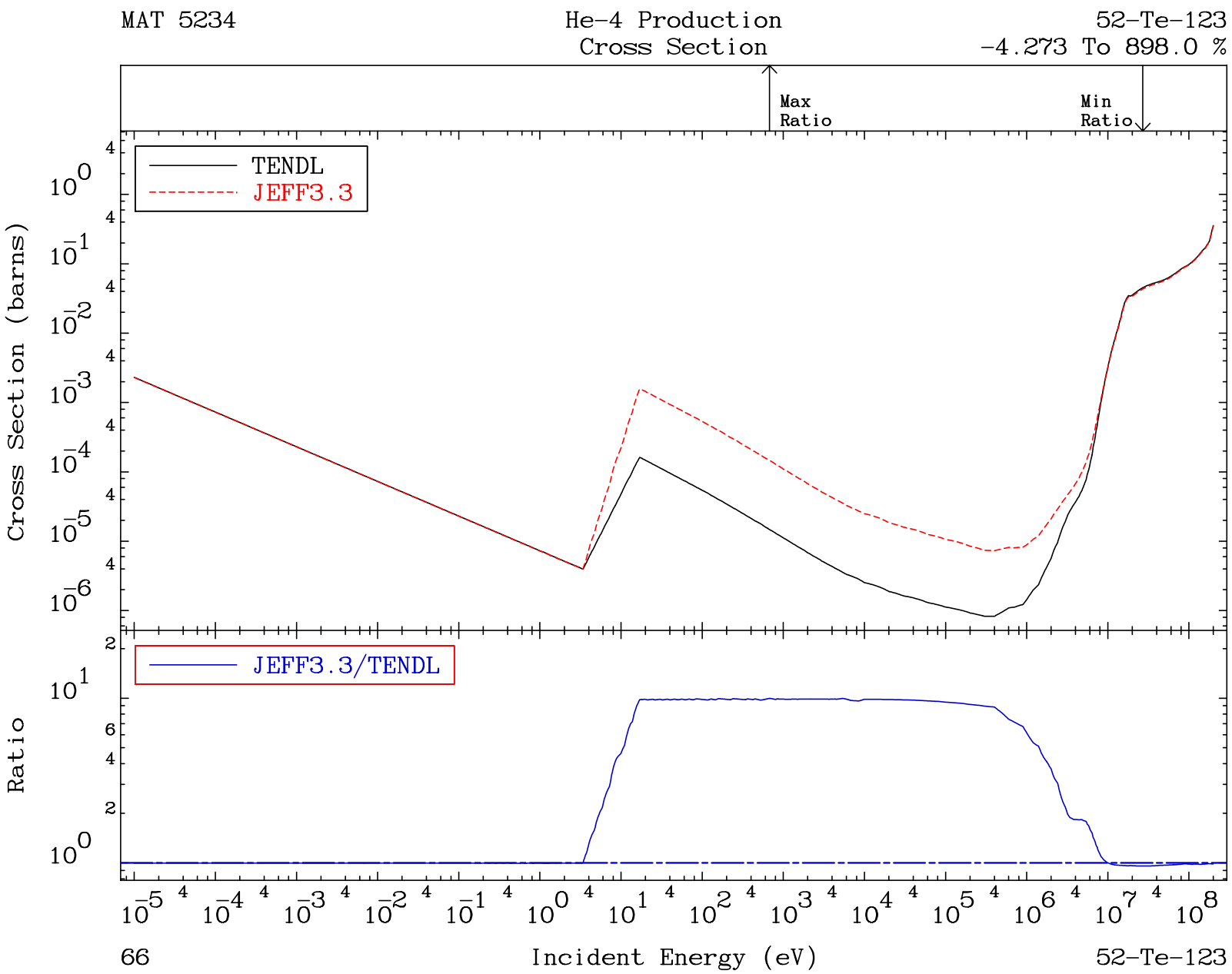

MAT 5234
(n,d) α
Cross Section
52-Te-123
0.000 To 8841. %
Max Ratio
Min Ratio
TENDL Threshold 9.5107 MeV
JEFF3.3 Threshold 9.5107 MeV
Cross Section (10^{-9} barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^{2}
10^{1}
10^{0}
10^{7}
10^{8}
2
3
4
5
6
7
8
9
61
Incident Energy (eV)
52-Te-123

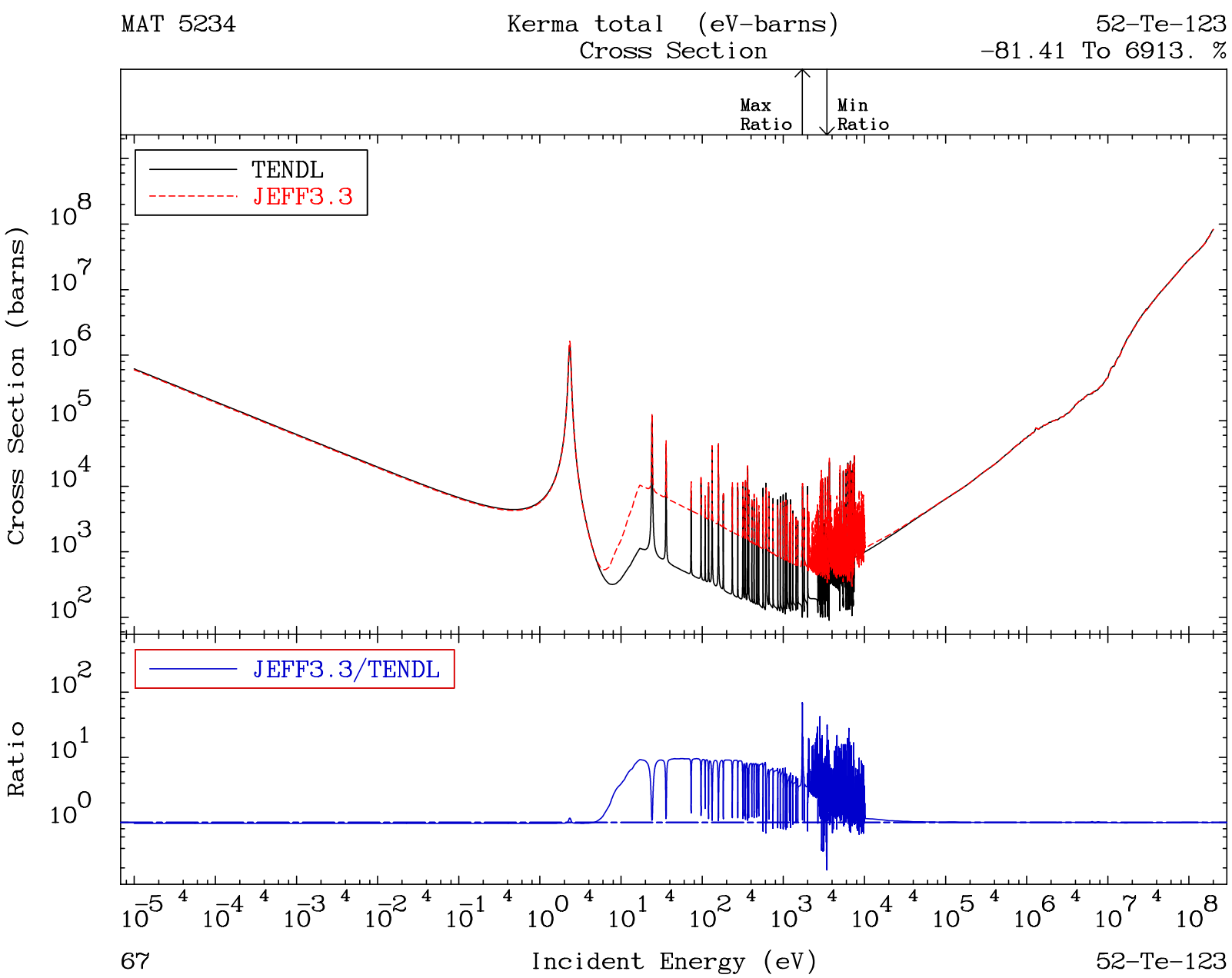

MAT 5234
Hydrogen Production
Cross Section
52-Te-123
-0.097 To 2.110 %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
62
52-Te-123

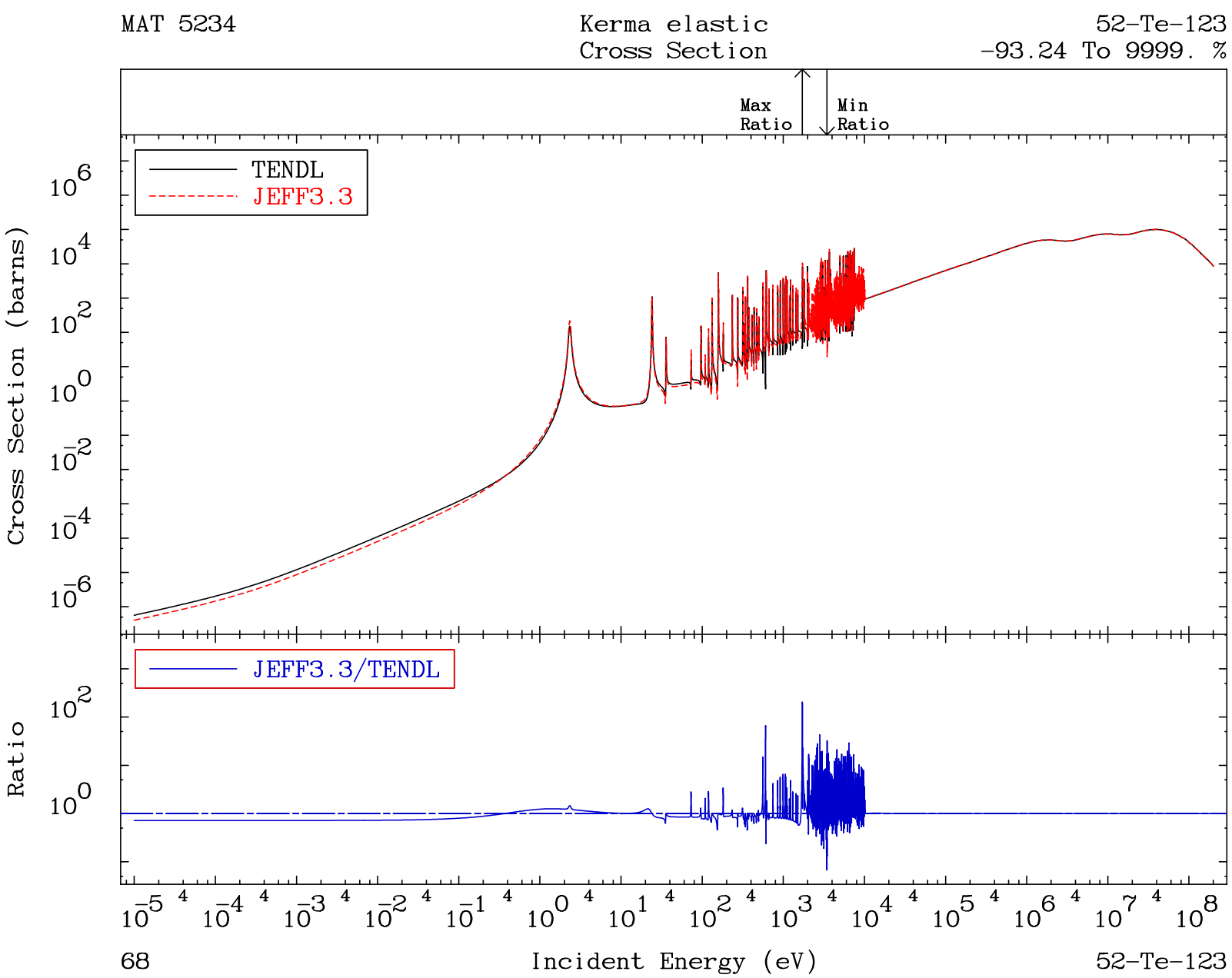

MAT 5234
Deuterium Production
Cross Section
52-Te-123
-8.548 To 1.793 %
Min Ratio
Max Ratio
TENDL Threshold 5.9496 MeV
JEFF3.3 Threshold 5.9514 MeV
Cross Section (milli-barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.05
1.00
0.95
6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
63
Incident Energy (eV)
52-Te-123

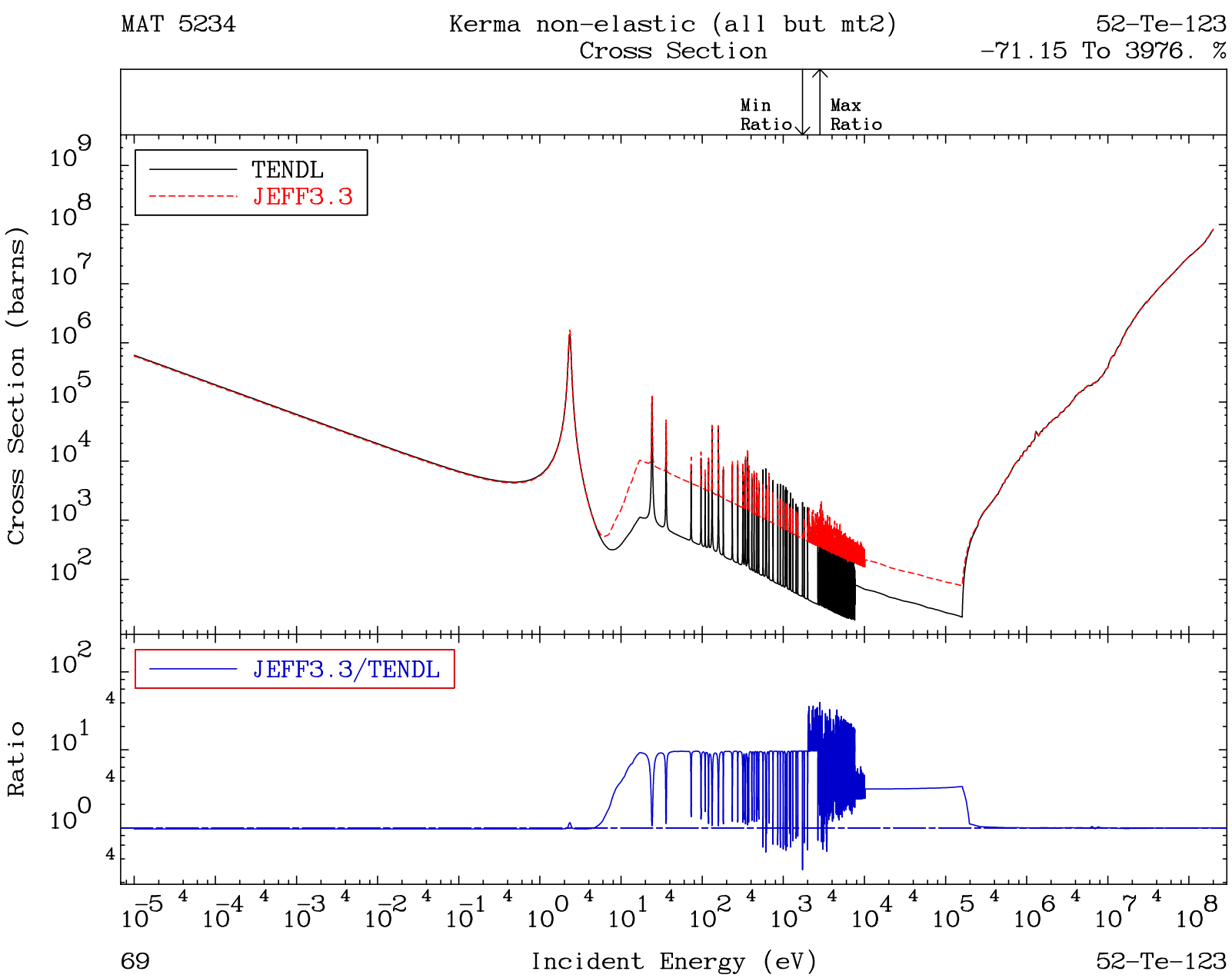

MAT 5234
Tritium Production
Cross Section
52-Te-123
-6.784 To 0.076 %
Min
Ratio
Max
Ratio
TENDL Threshold 6.5032 MeV
JEFF3.3 Threshold 6.5050 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.00
0.96
7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
64
Incident Energy (eV)
52-Te-123

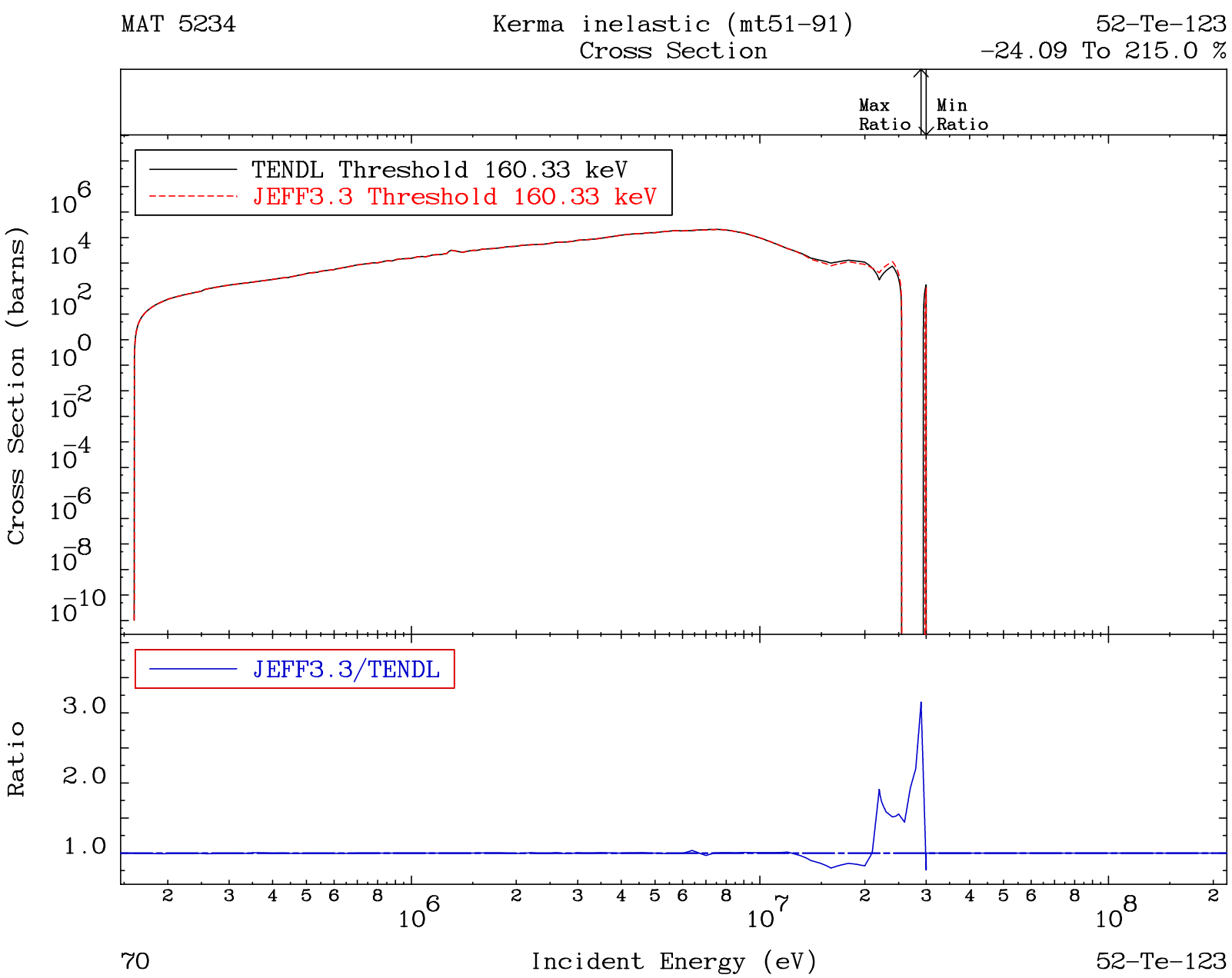

MAT 5234
He-3 Production
Cross Section
52-Te-123
0.002 To 4.115 %
Max Ratio
Min Ratio
TENDL Threshold 6.8909 MeV
JEFF3.3 Threshold 6.8909 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.04
1.02
1.00
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
65
Incident Energy (eV)
52-Te-123

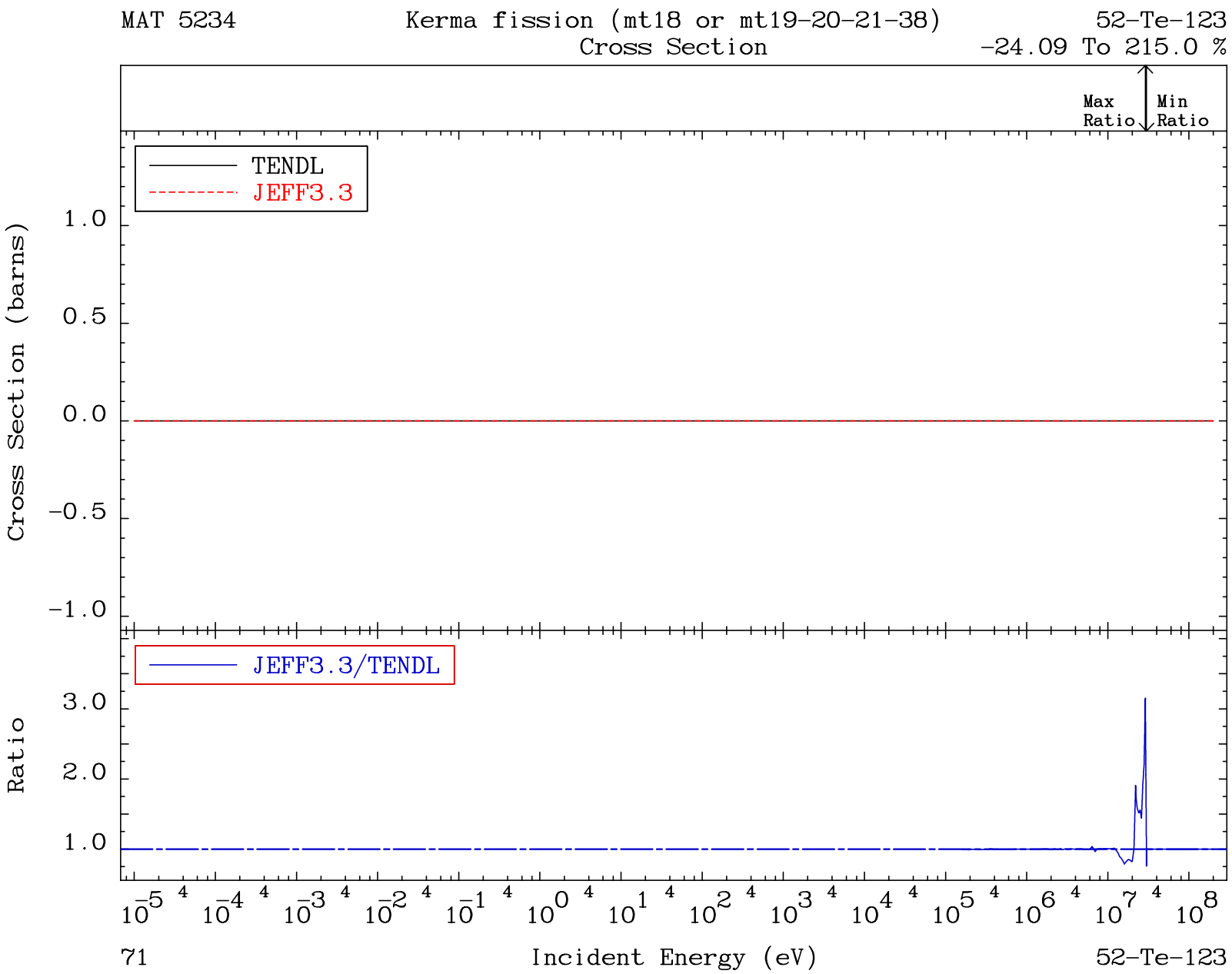

MAT 5234
He-4 Production
Cross Section
52-Te-123
-4.273 To 898.0 %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
66
52-Te-123

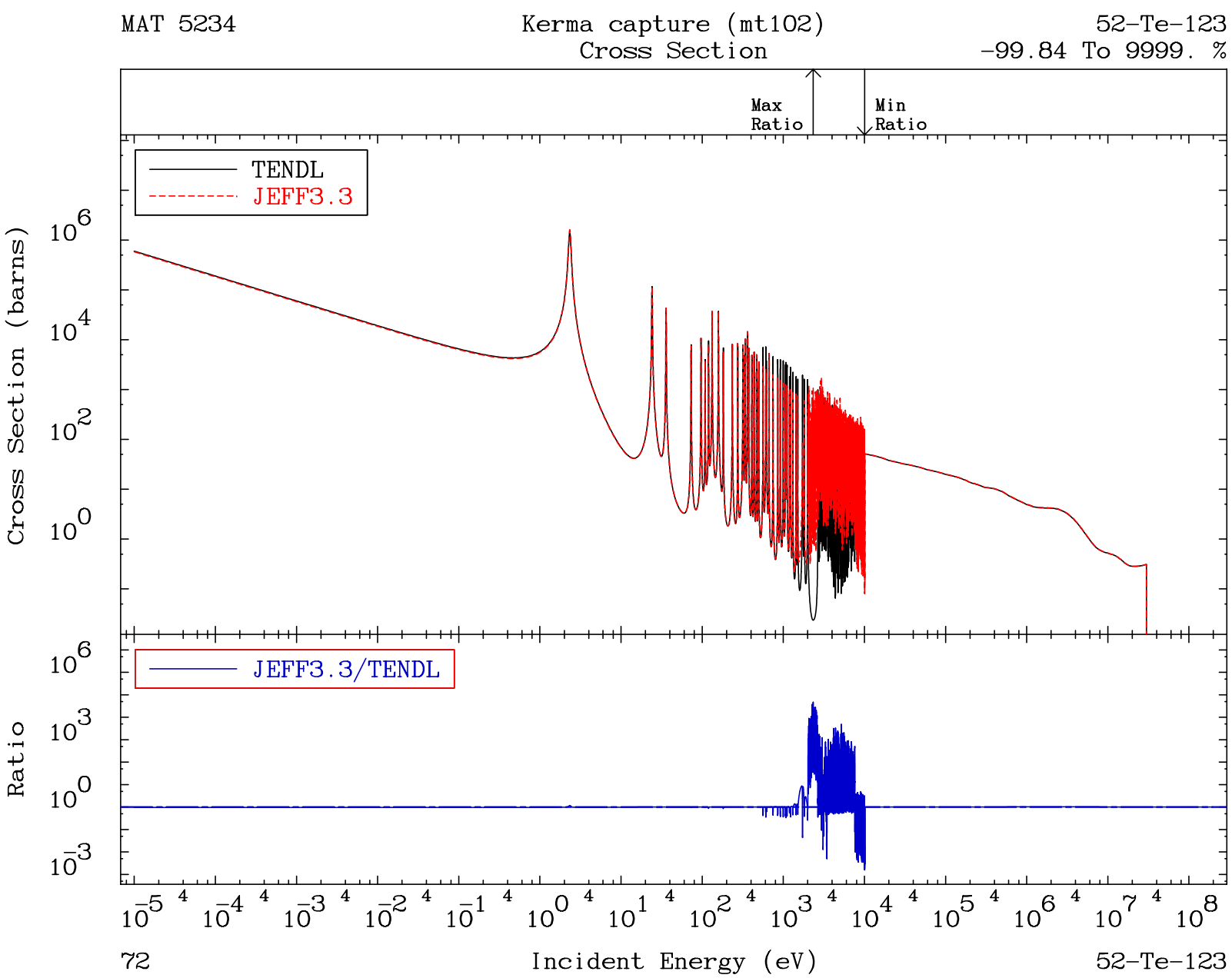

MAT 5234
Kerma total (eV-barns)
Cross Section
52-Te-123
-81.41 To 6913. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
67
52-Te-123

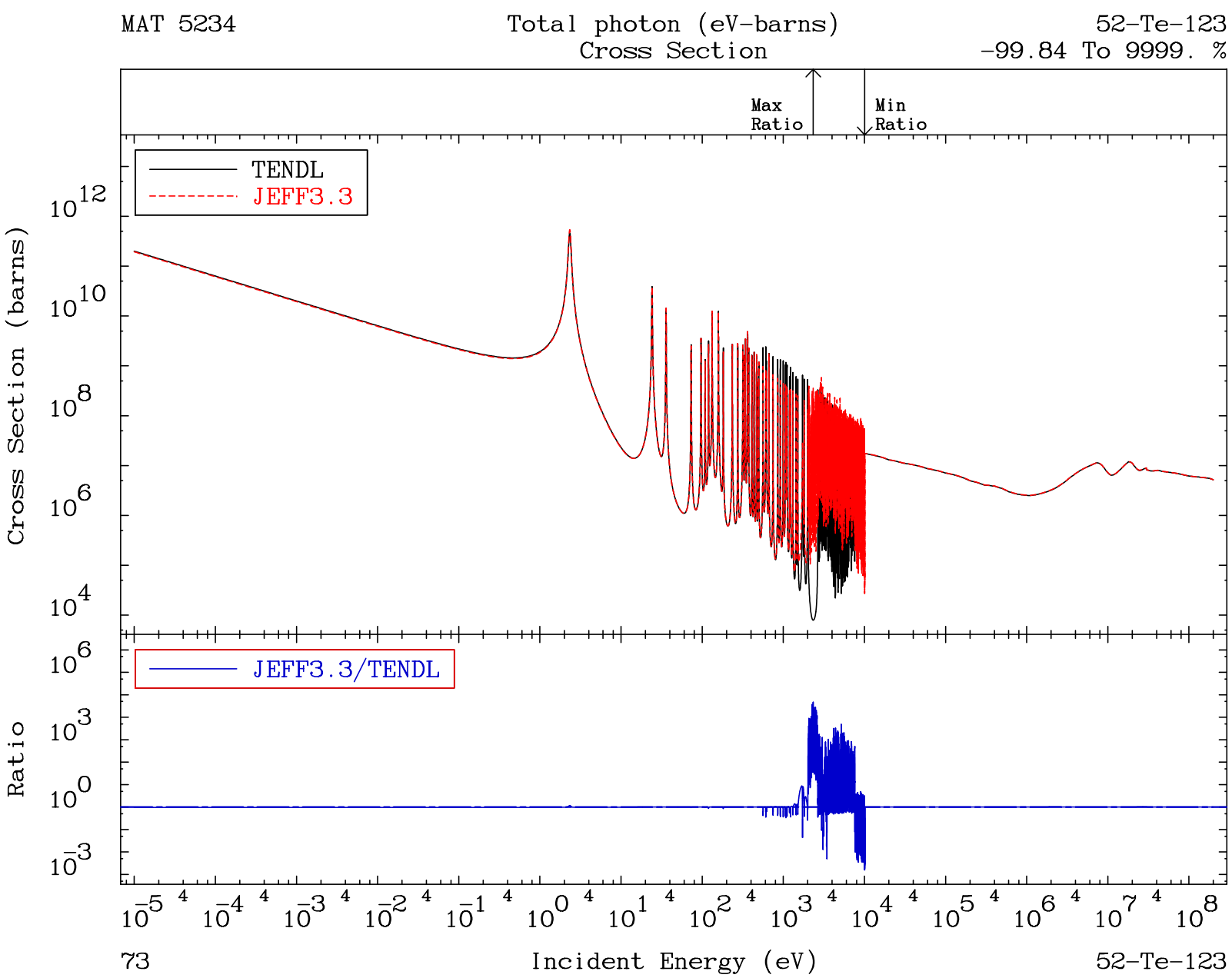

MAT 5234
Kerma elastic
Cross Section
52-Te-123
-93.24 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
68
52-Te-123

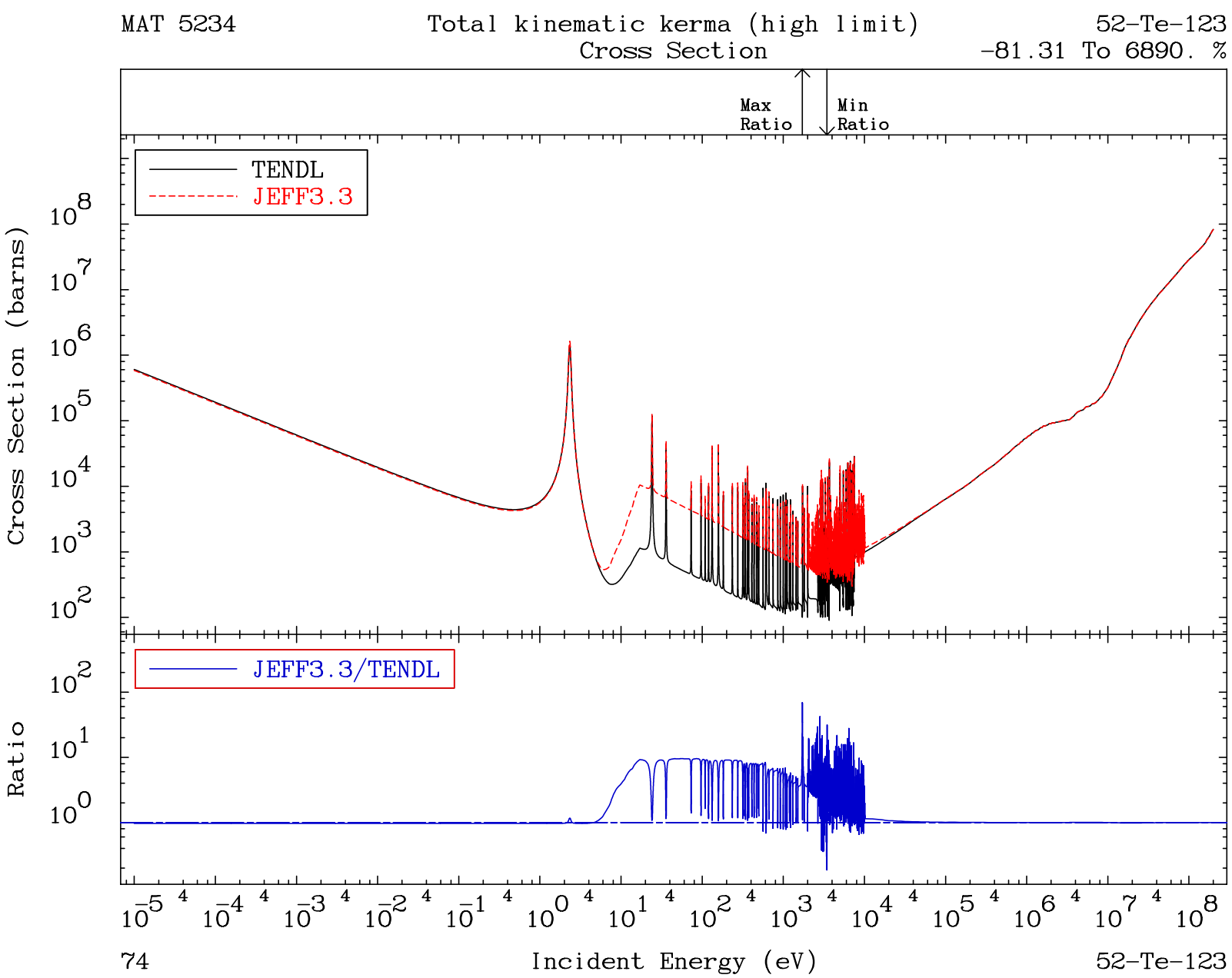

MAT 5234
Kerma non-elastic (all but mt2)
Cross Section
52-Te-123
-71.15 To 3976. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
69
52-Te-123

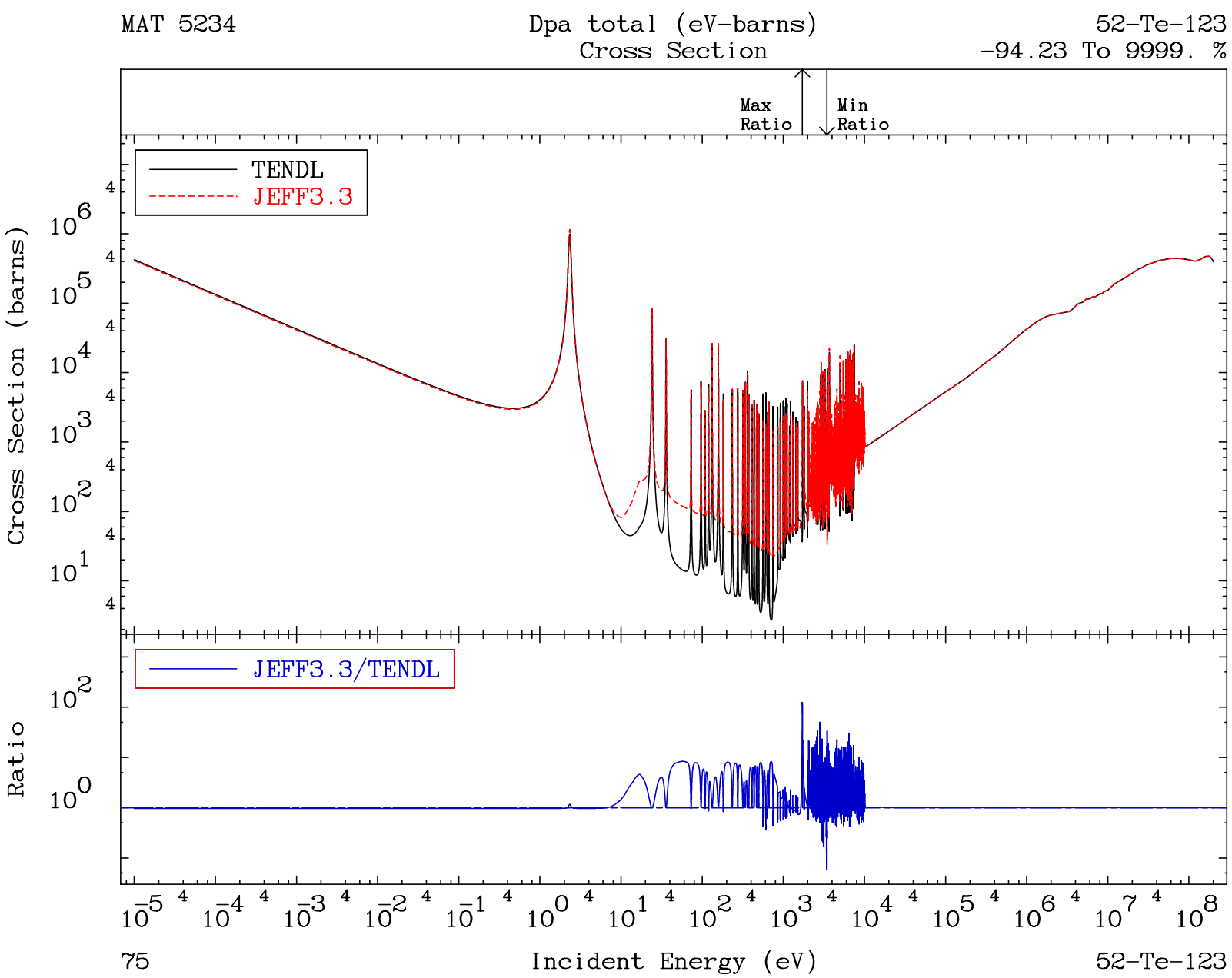

MAT 5234
Kerma inelastic (mt51-91)
Cross Section
52-Te-123
-24.09 To 215.0 %
Max Ratio
Min Ratio
TENDL Threshold 160.33 keV
JEFF3.3 Threshold 160.33 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
70
52-Te-123

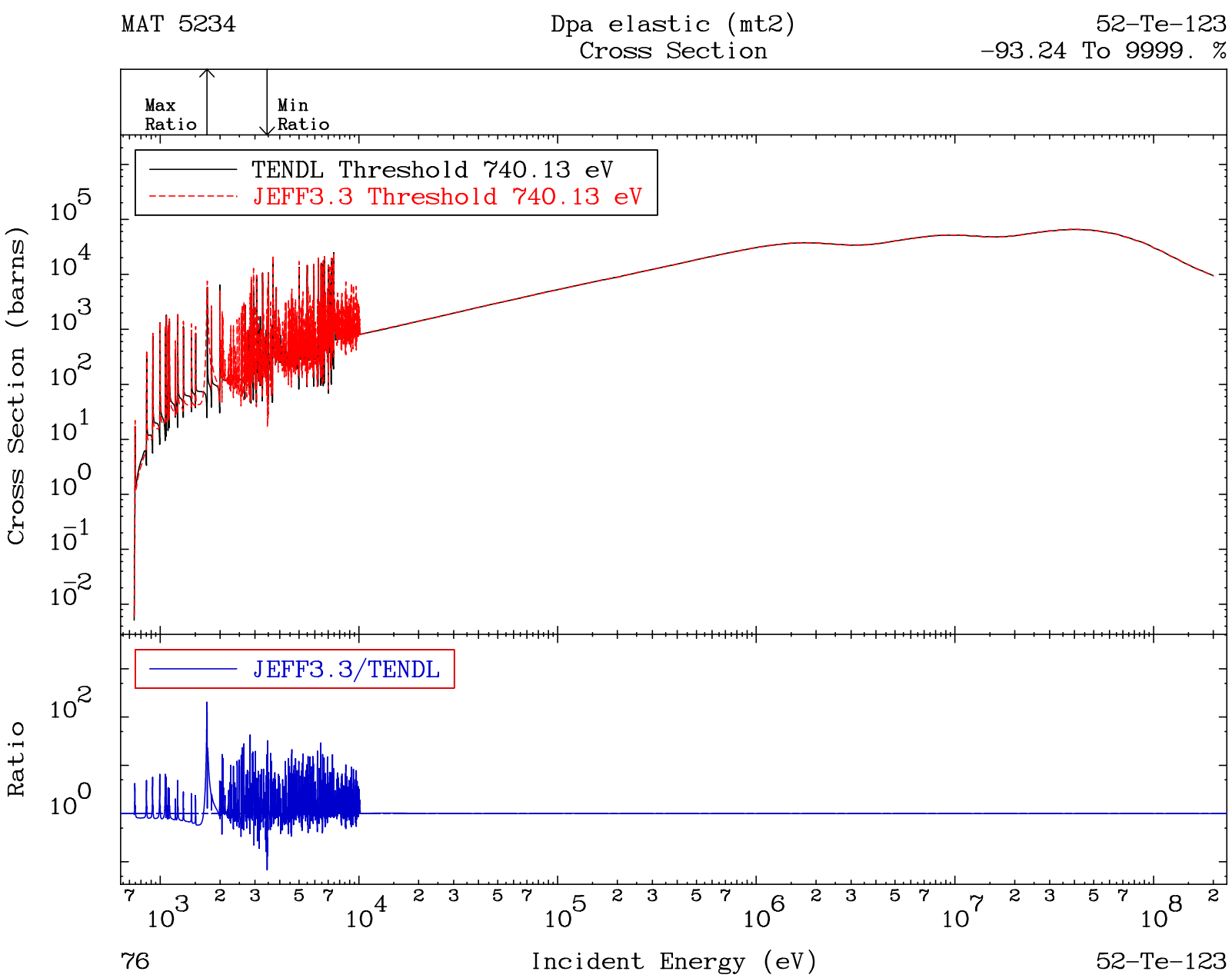

MAT 5234
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
52-Te-123
-24.09 To 215.0 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
10-5 4 10-4 4 10-3 4 10-2 4 10-1 4 100 4 101 4 102 4 103 4 104 4 105 4 106 4 107 4 108
71
Incident Energy (eV)
52-Te-123

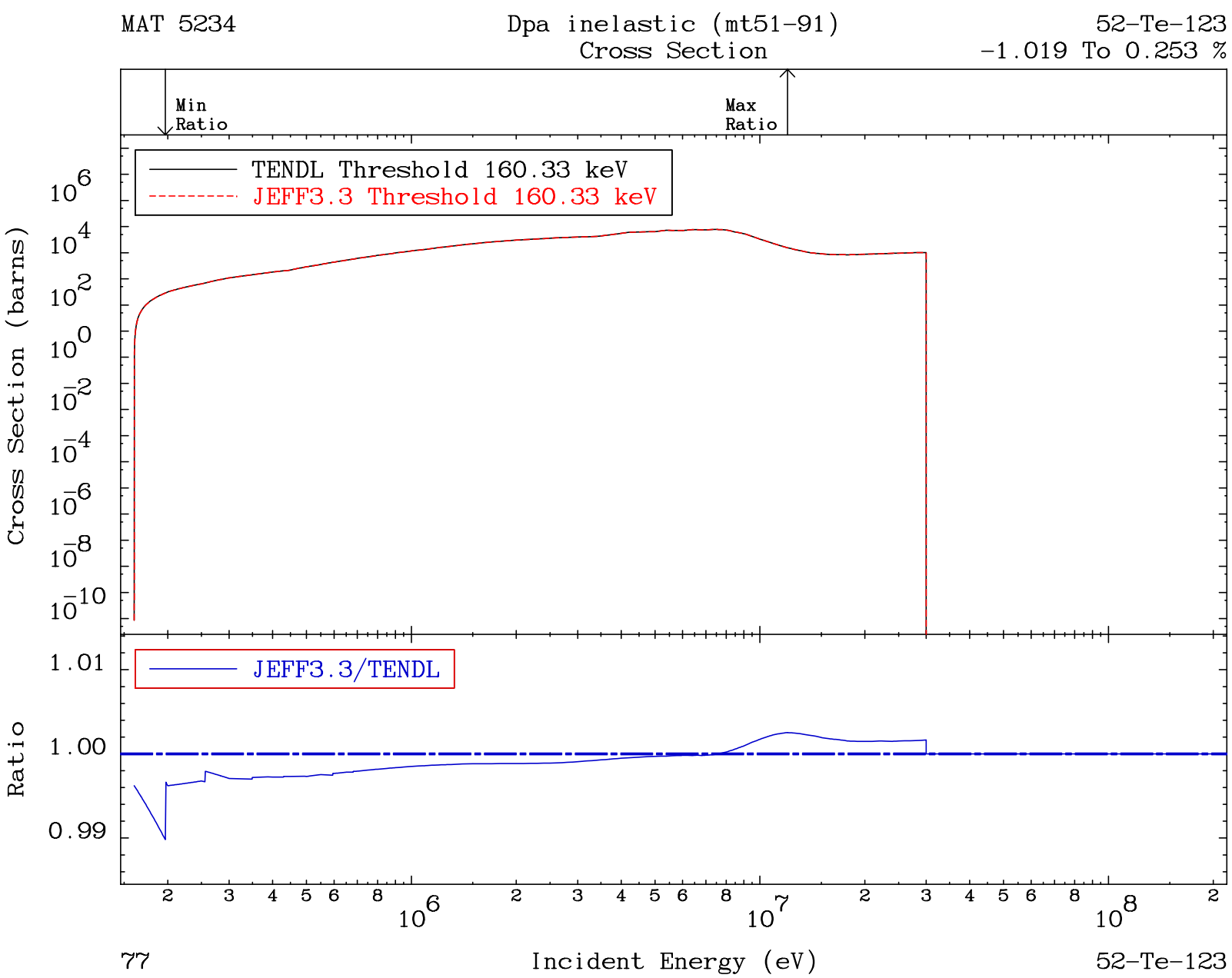

MAT 5234
Kerma capture (mt102)
Cross Section
52-Te-123
-99.84 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
72
52-Te-123

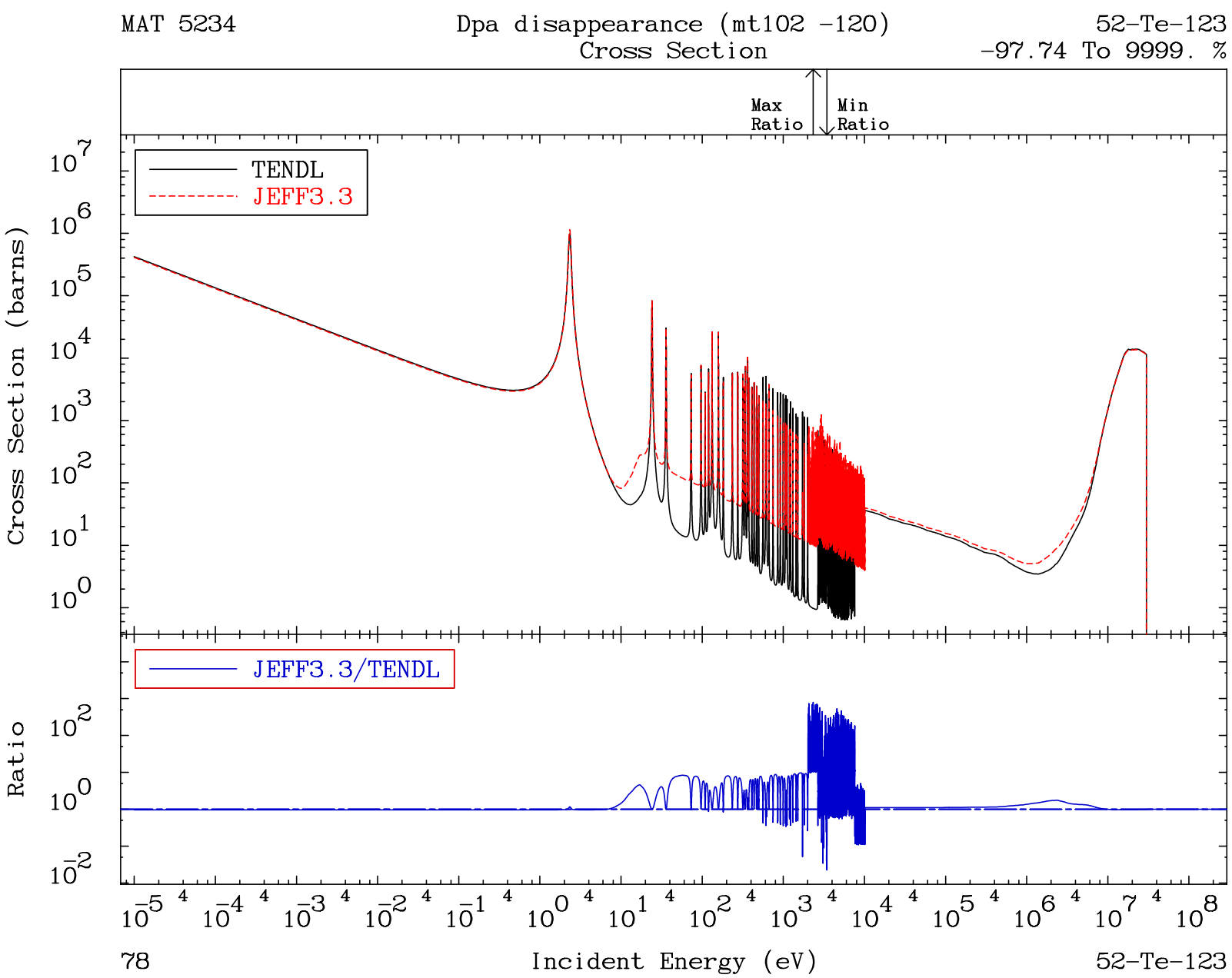

MAT 5234
Total photon (eV-barns)
Cross Section
52-Te-123
-99.84 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
73
52-Te-123

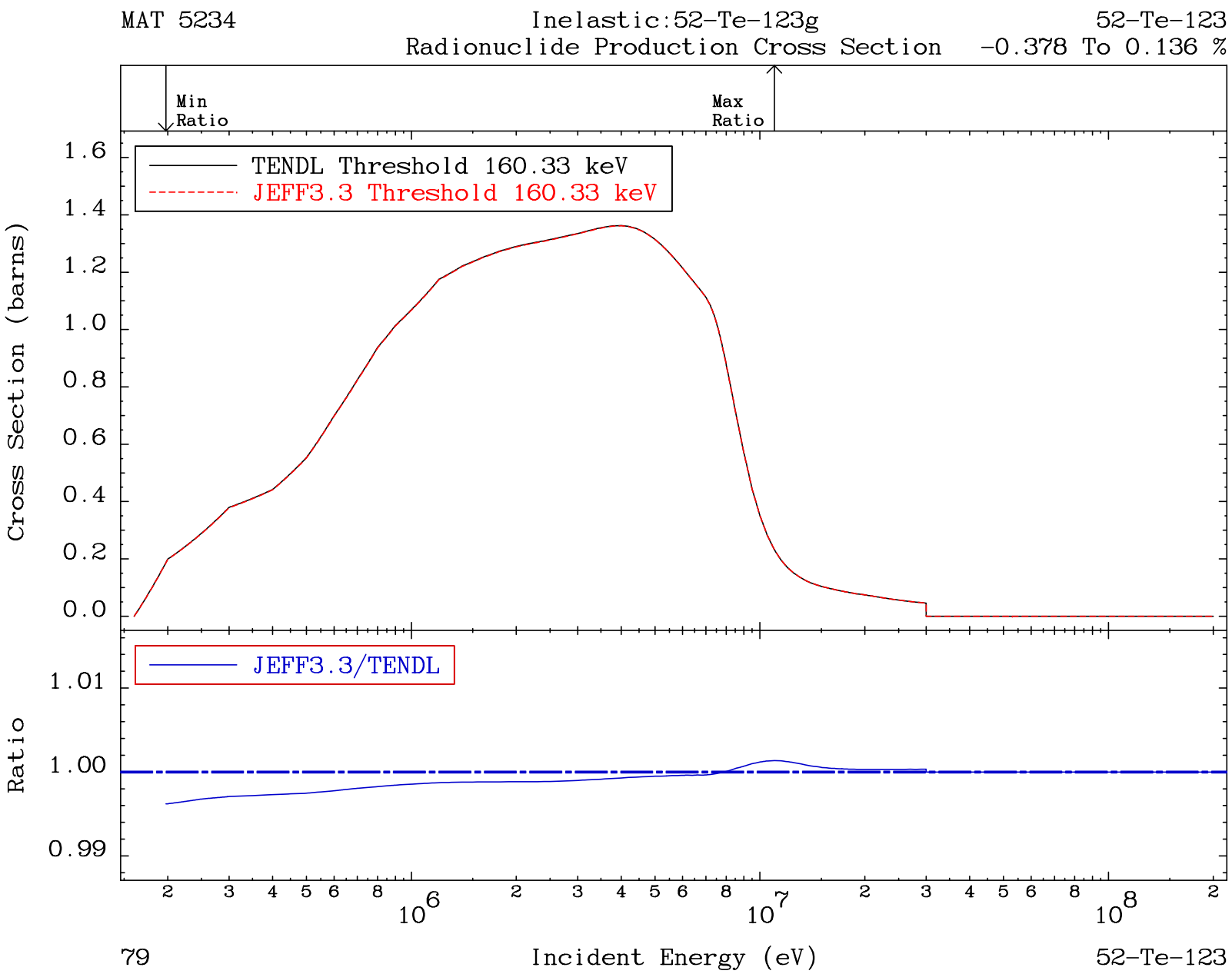

MAT 5234
Total kinematic kerma (high limit)
Cross Section
52-Te-123
-81.31 To 6890. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
74
52-Te-123

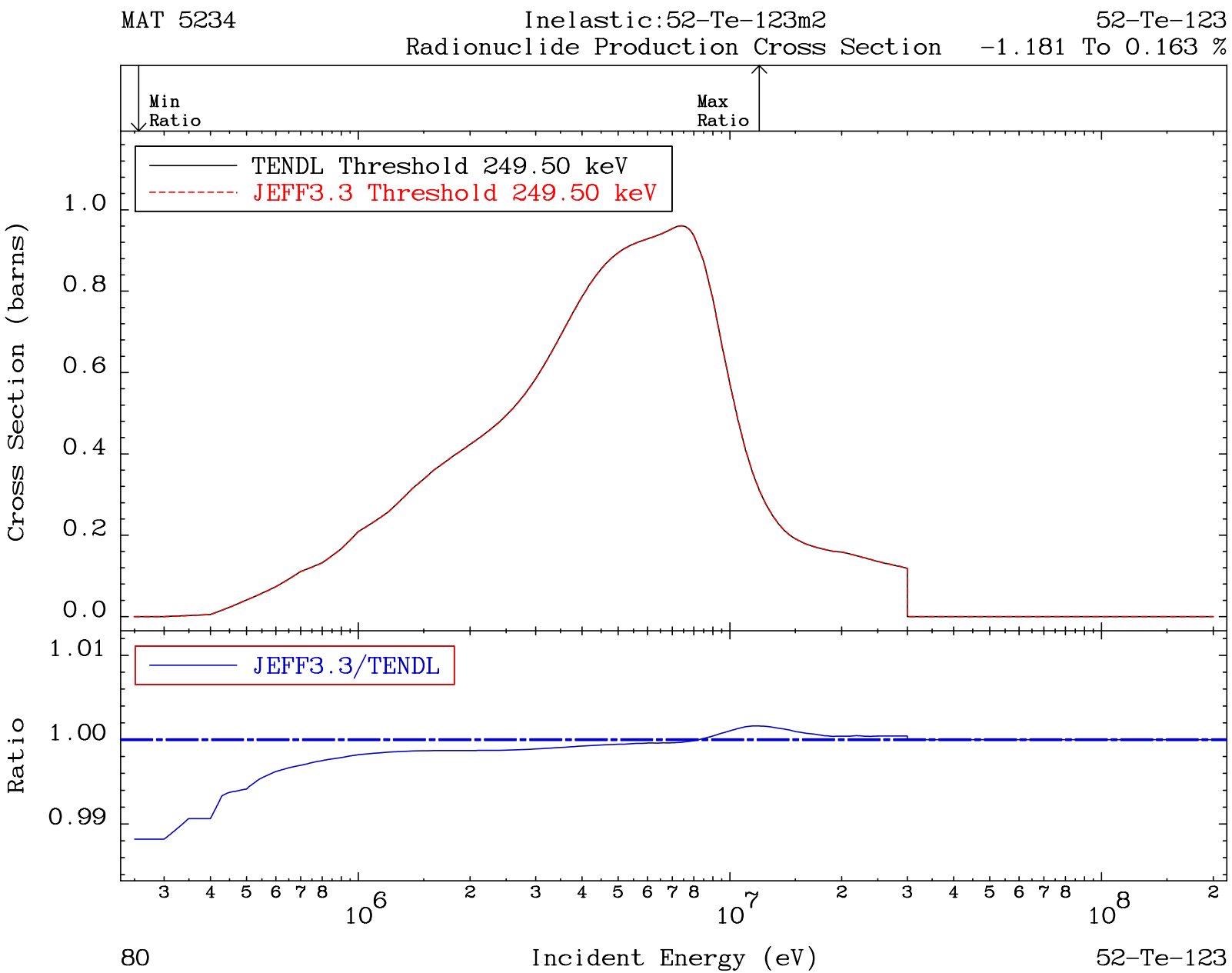

MAT 5234
Dpa total (eV-barns)
Cross Section
52-Te-123
-94.23 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
75
52-Te-123

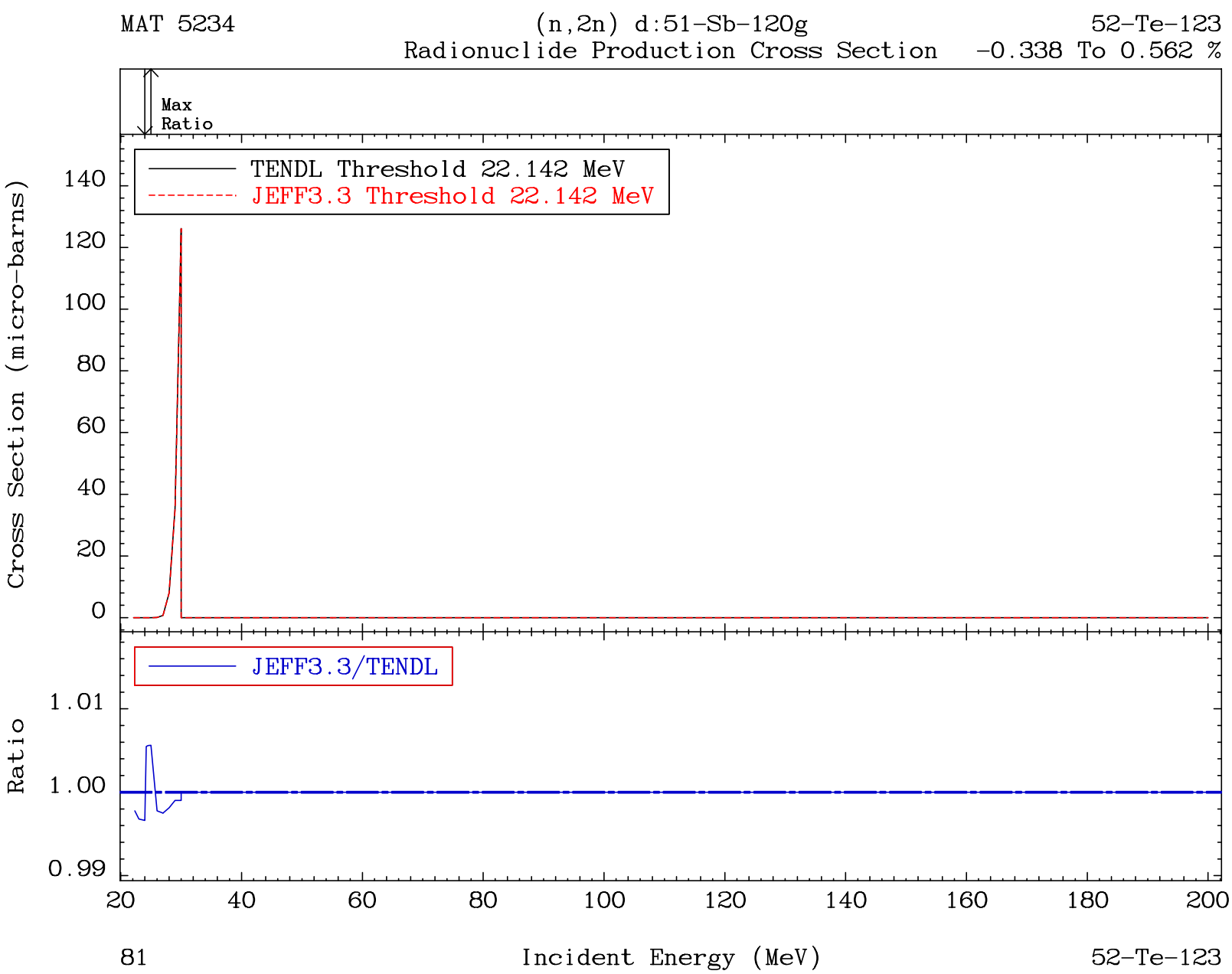

MAT 5234
Dpa elastic (mt2)
Cross Section
52-Te-123
-93.24 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 740.13 eV
JEFF3.3 Threshold 740.13 eV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
76
52-Te-123

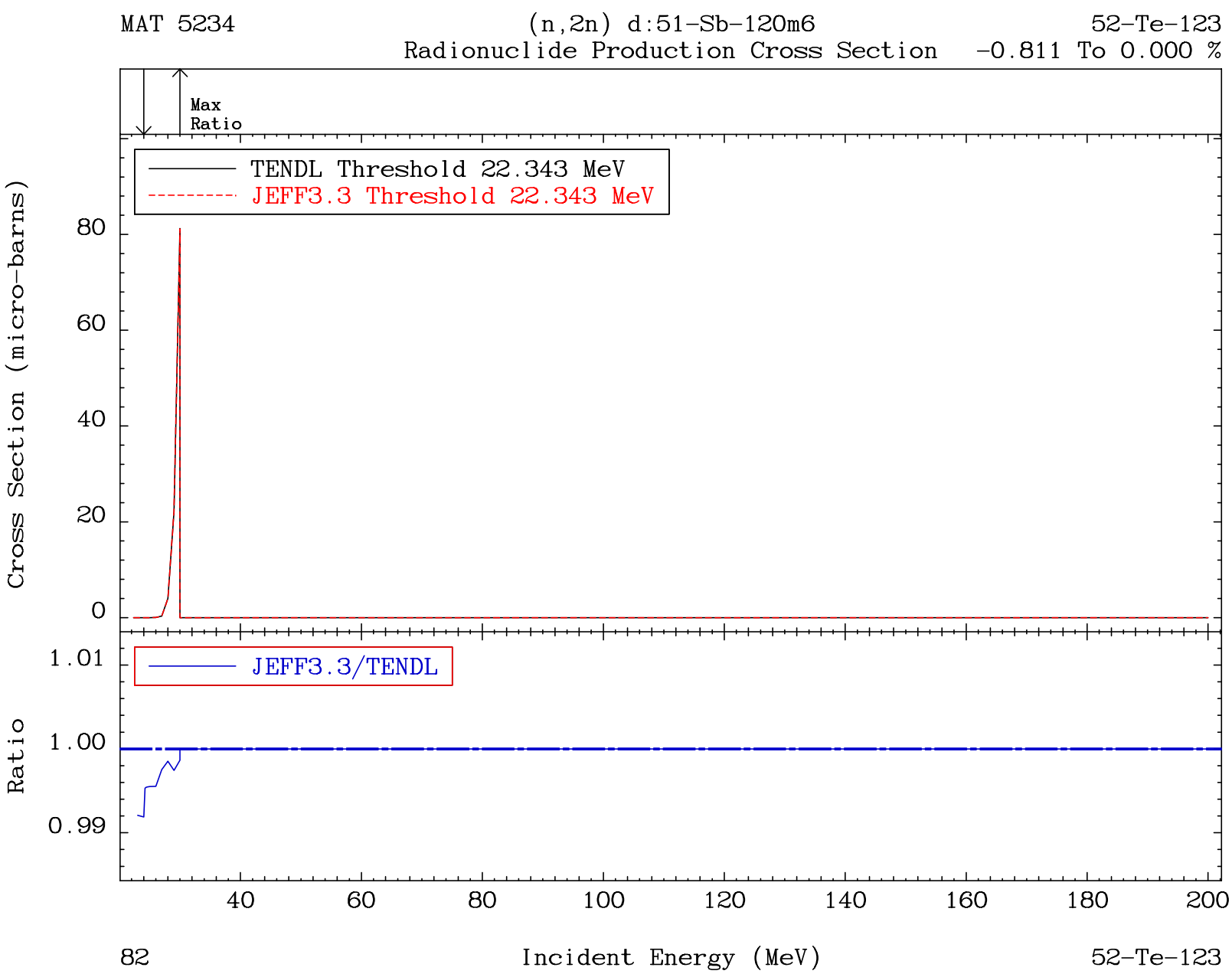

MAT 5234
Dpa inelastic (mt51-91)
Cross Section
52-Te-123
-1.019 To 0.253 %
Min Ratio
Max Ratio
TENDL Threshold 160.33 keV
JEFF3.3 Threshold 160.33 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
77
52-Te-123

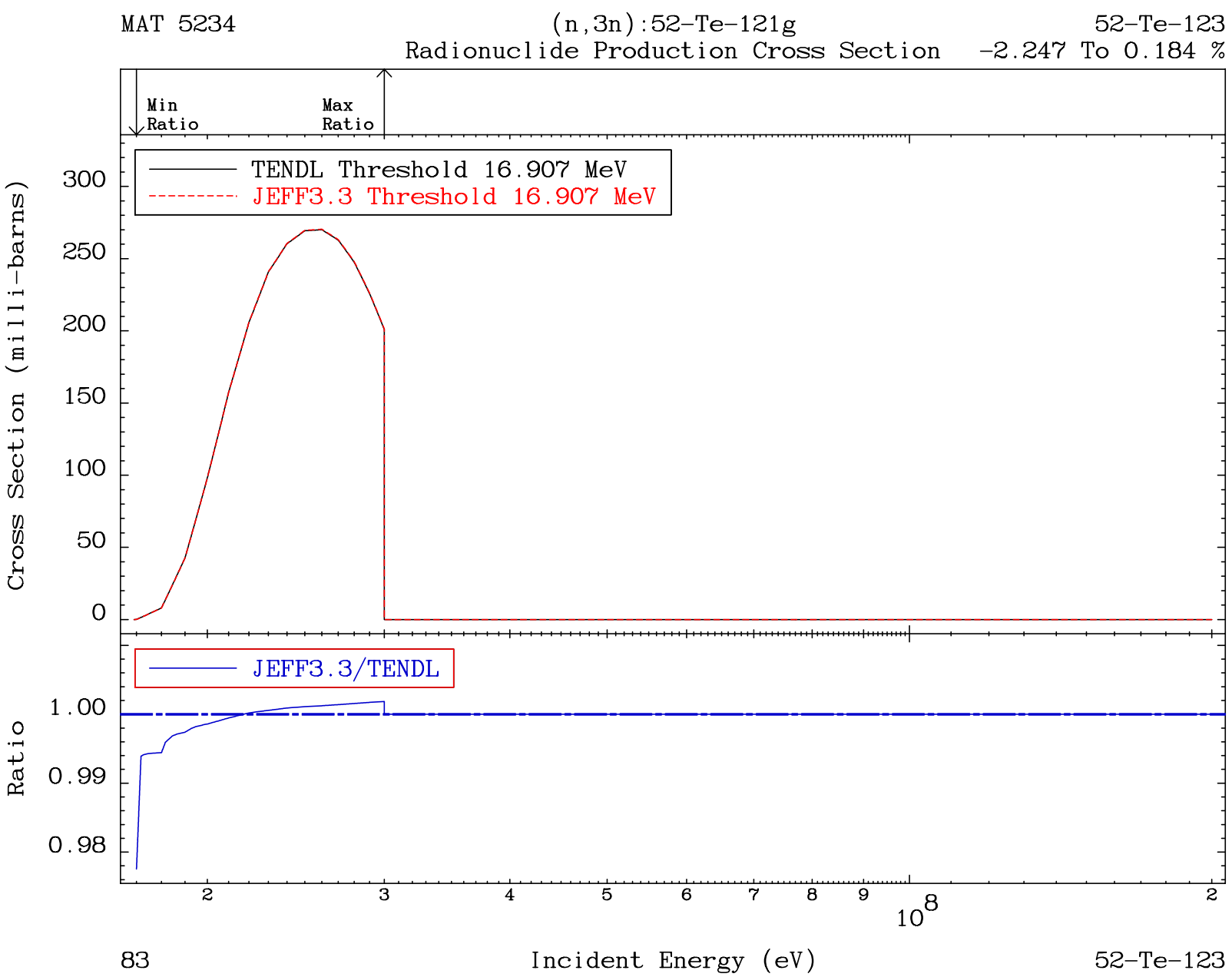

MAT 5234
Dpa disappearance (mt102 -120)
Cross Section
52-Te-123
-97.74 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
78
52-Te-123

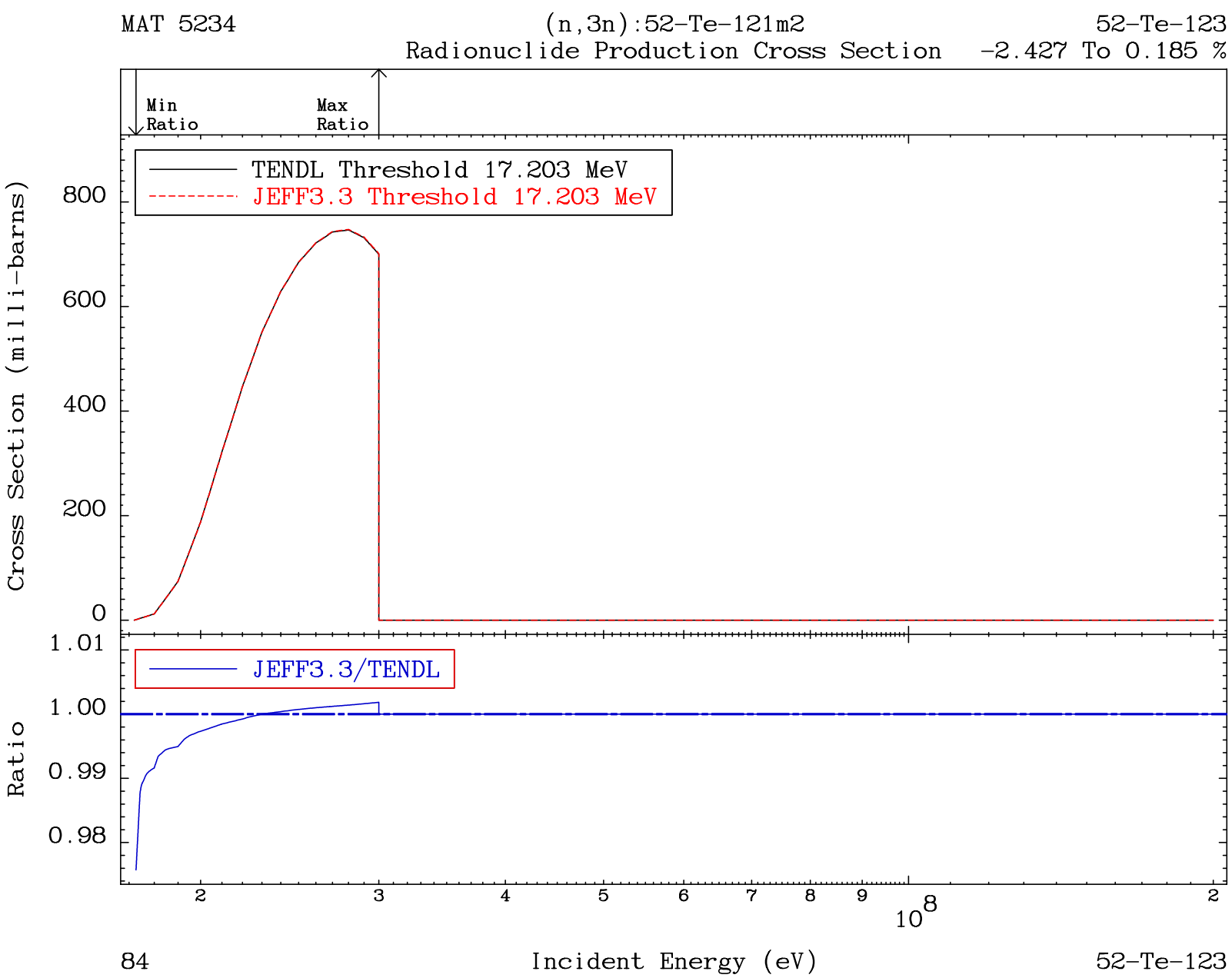

MAT 5234
Inelastic:52-Te-123g
52-Te-123
Radionuclide Production Cross Section
-0.378 To 0.136 %
Min Ratio
Max Ratio
TENDL Threshold 160.33 keV
JEFF3.3 Threshold 160.33 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
79
Incident Energy (eV)
52-Te-123

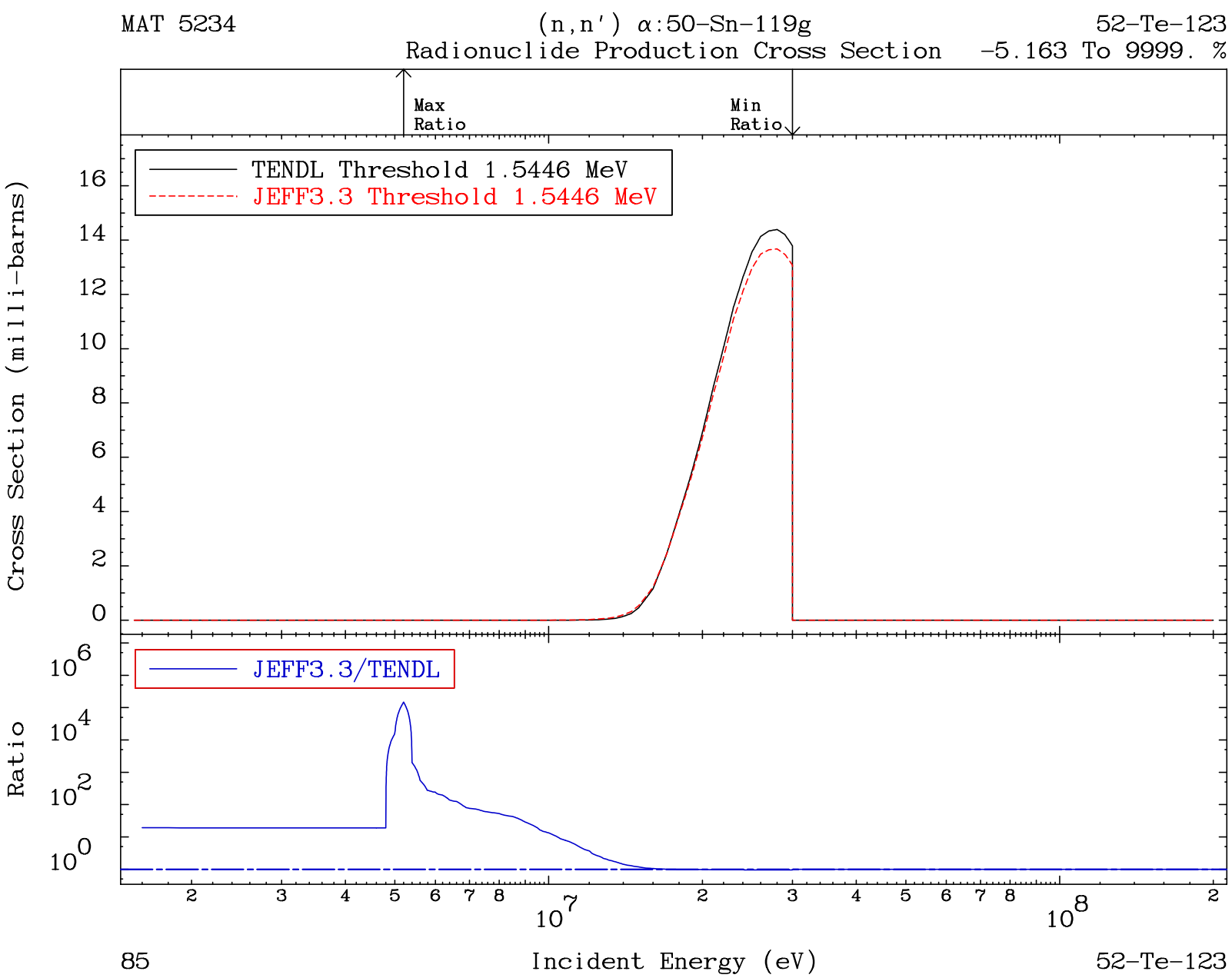

MAT 5234
Inelastic:52-Te-123m2
52-Te-123
Radionuclide Production Cross Section
-1.181 To 0.163 %
Min Ratio
Max Ratio
TENDL Threshold 249.50 keV
JEFF3.3 Threshold 249.50 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
80
Incident Energy (eV)
52-Te-123

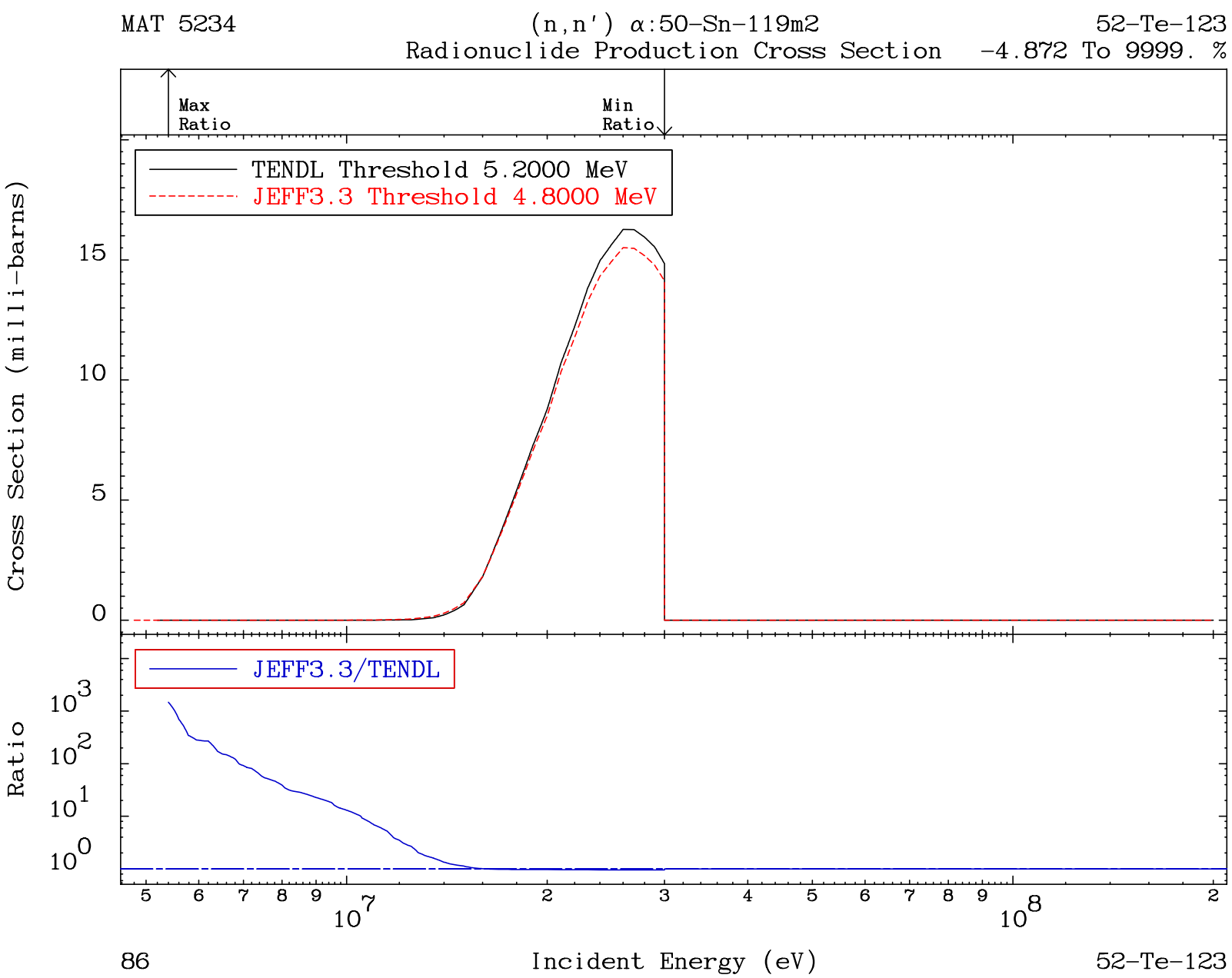

MAT 5234
(n,2n) d:51-Sb-120g
52-Te-123
Radionuclide Production Cross Section
-0.338 To 0.562 %
Max
Ratio
TENDL Threshold 22.142 MeV
JEFF3.3 Threshold 22.142 MeV
Cross Section (micro-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
20
40
60
80
100
120
140
160
180
200
81
Incident Energy (MeV)
52-Te-123

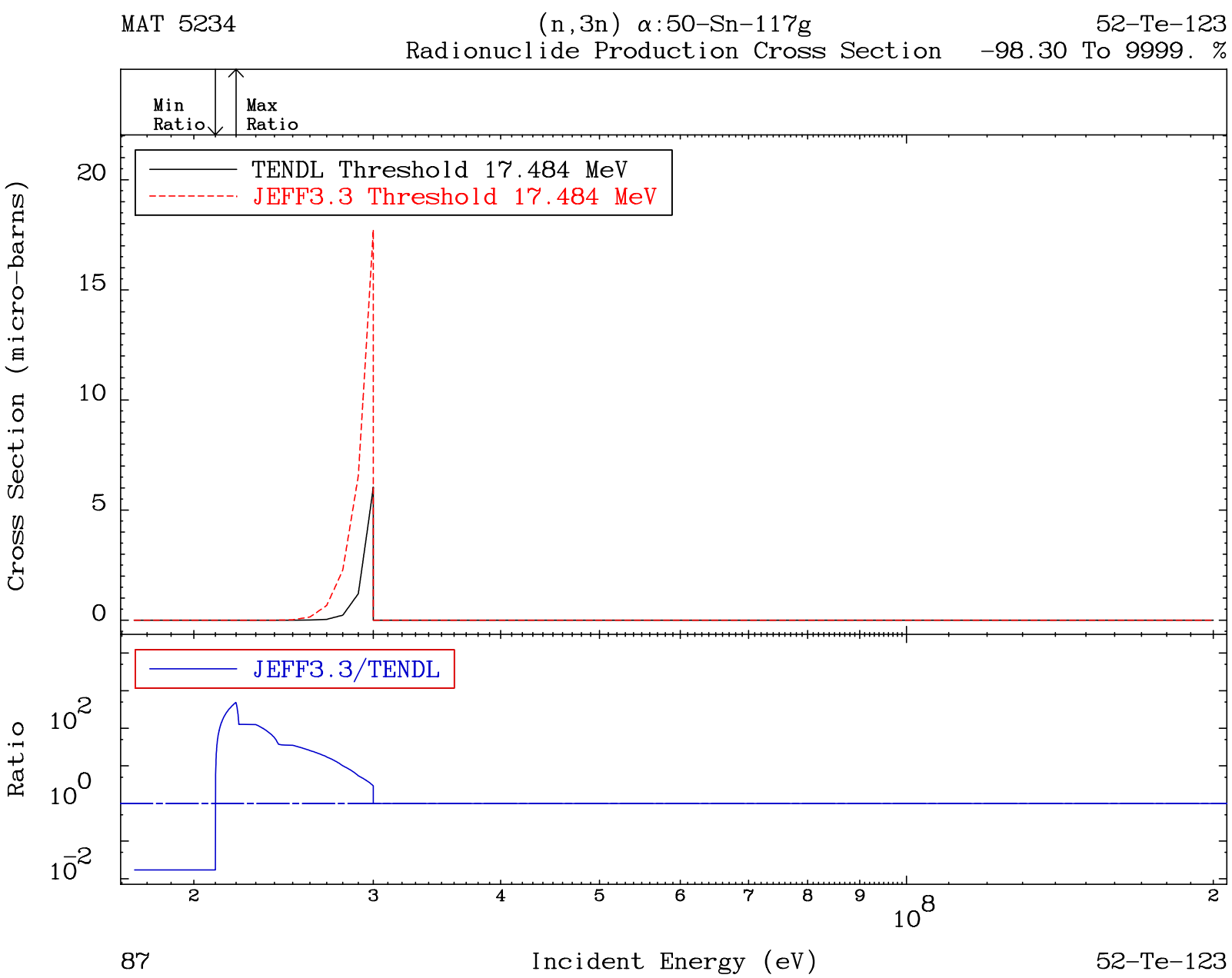

MAT 5234
(n,2n) d:51-Sb-120m6
52-Te-123
Radionuclide Production Cross Section -0.811 To 0.000 %
Max
Ratio
TENDL Threshold 22.343 MeV
JEFF3.3 Threshold 22.343 MeV
Cross Section (micro-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
82
Incident Energy (MeV)
52-Te-123

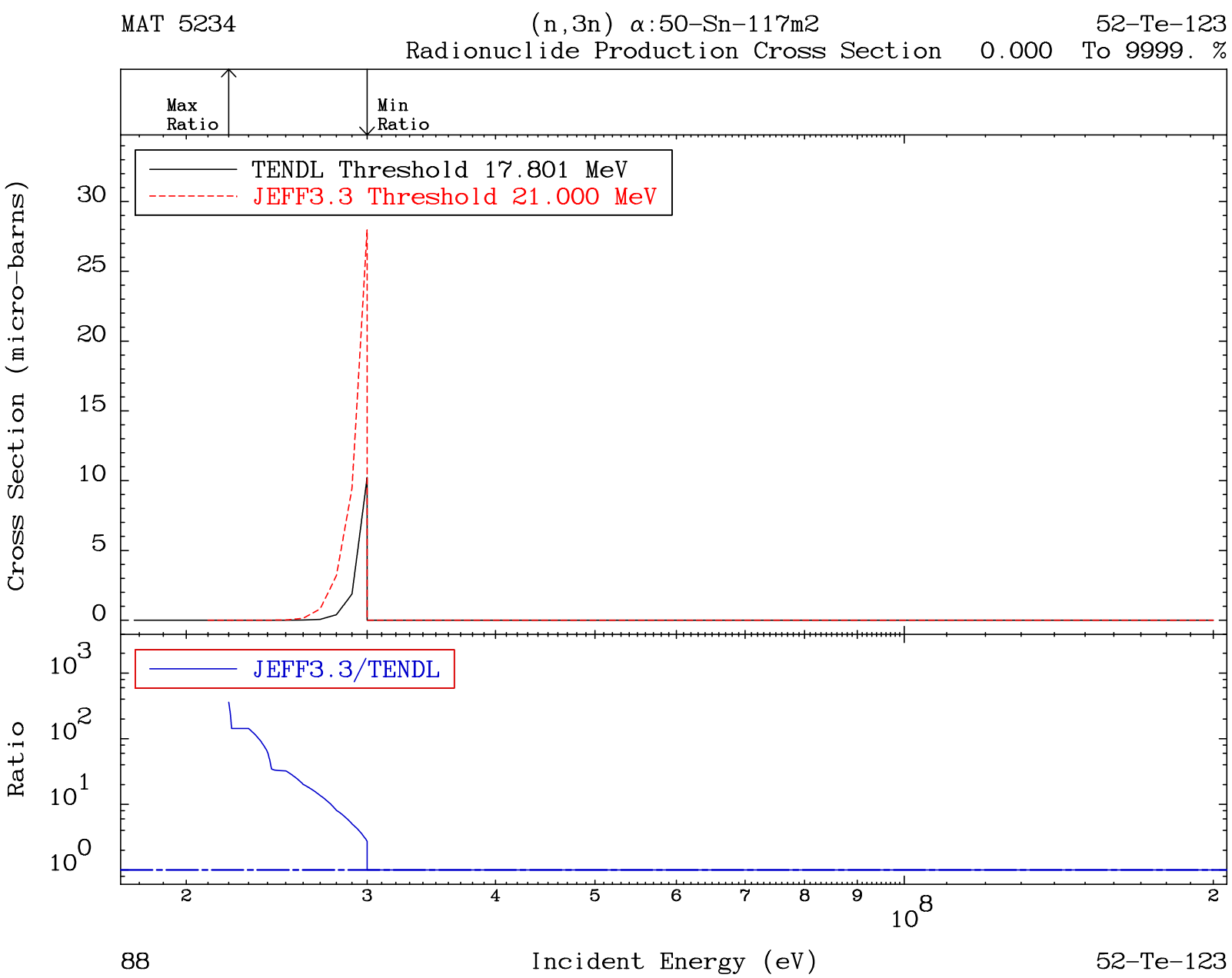

MAT 5234
(n,3n):52-Te-121g
52-Te-123
Radionuclide Production Cross Section
-2.247 To 0.184 %
Min Ratio
Max Ratio
TENDL Threshold 16.907 MeV
JEFF3.3 Threshold 16.907 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
52-Te-123

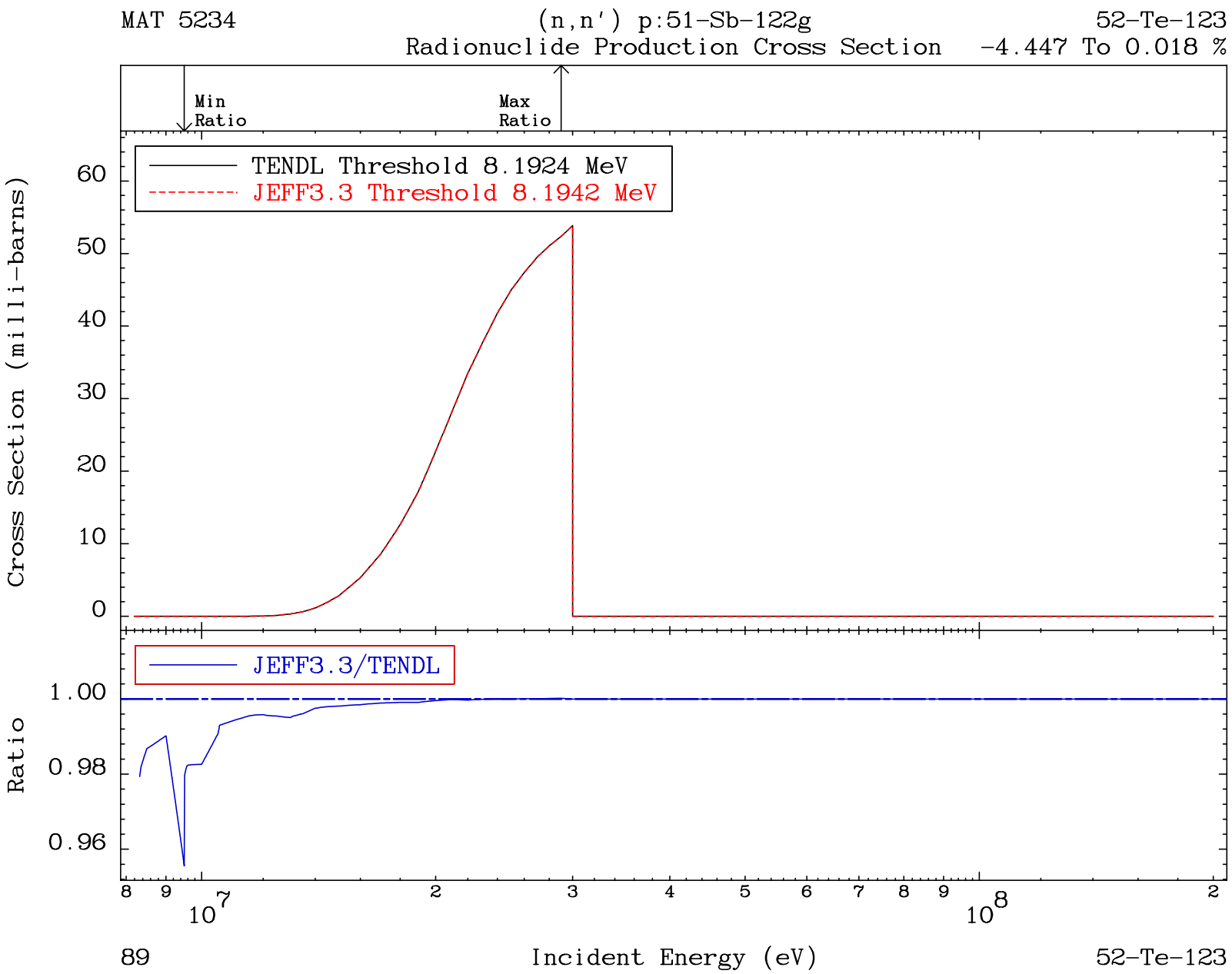

MAT 5234
(n,3n):52-Te-121m2
52-Te-123
Radionuclide Production Cross Section
-2.427 To 0.185 %
Min Ratio
Max Ratio
TENDL Threshold 17.203 MeV
JEFF3.3 Threshold 17.203 MeV
Cross Section (milli-barns)
800
600
400
200
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
52-Te-123

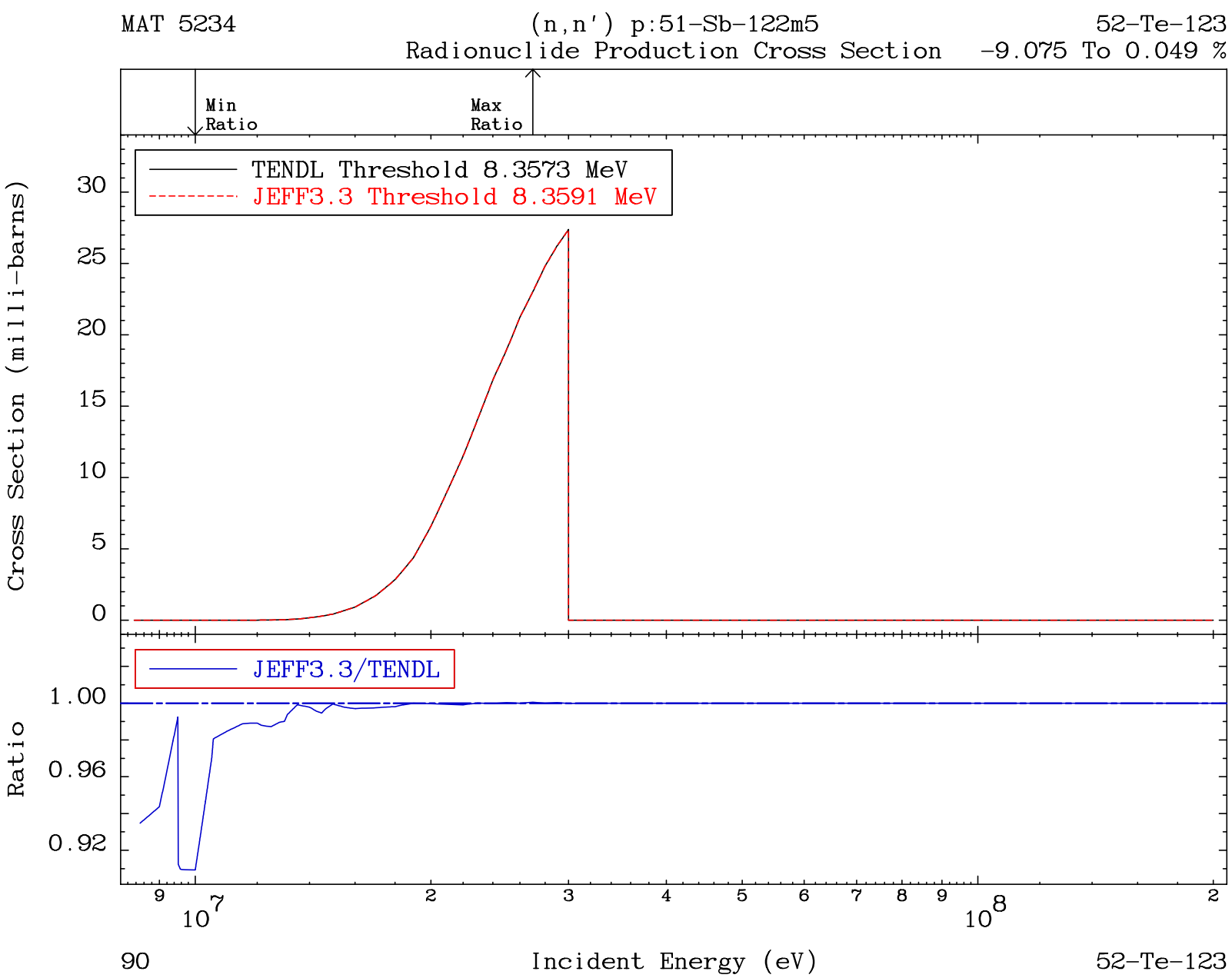

MAT 5234
(n,n') α:50-Sn-119g
52-Te-123
Radionuclide Production Cross Section
-5.163 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.5446 MeV
JEFF3.3 Threshold 1.5446 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
85
52-Te-123

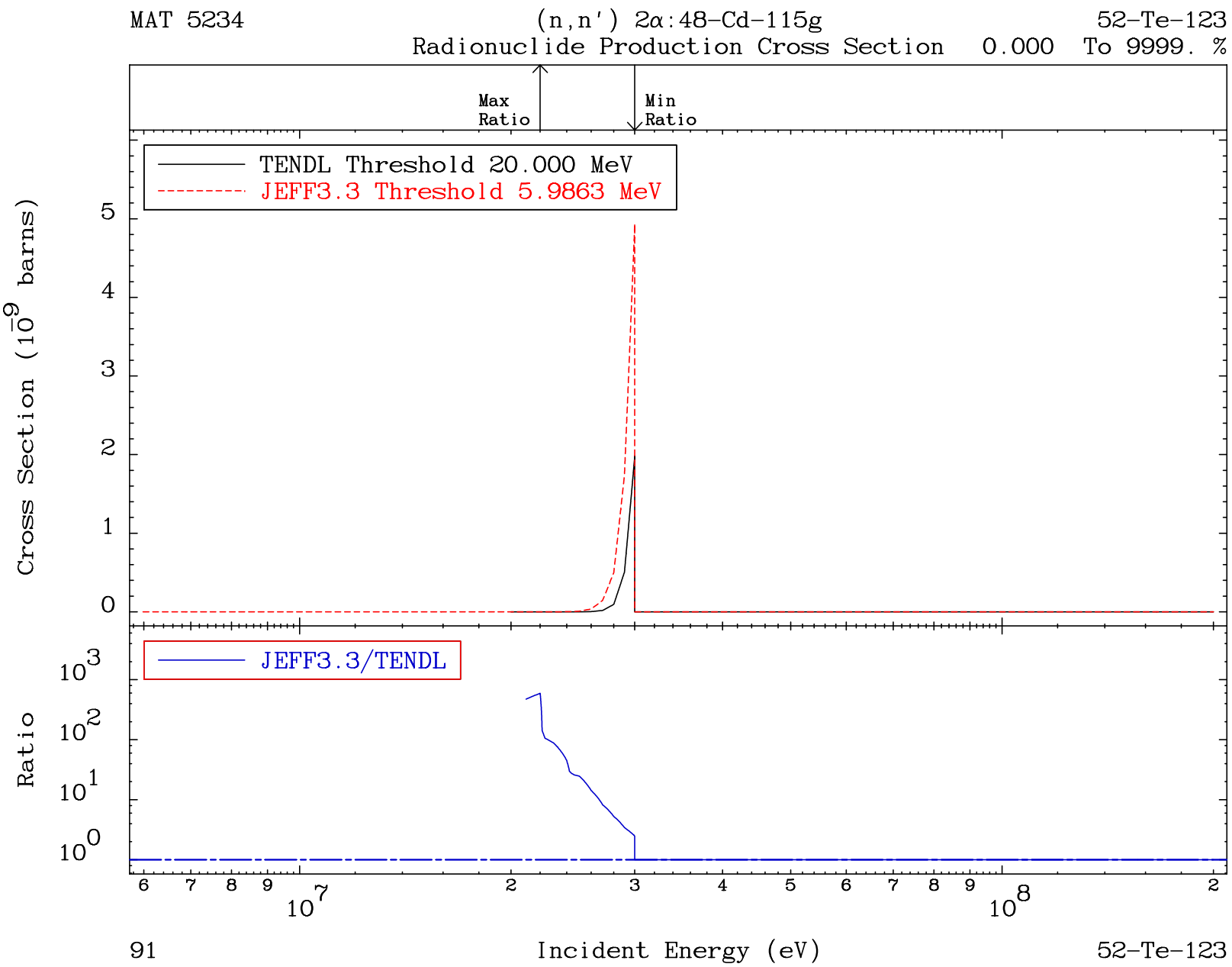

MAT 5234
(n,n') α:50-Sn-119m2
52-Te-123
Radionuclide Production Cross Section -4.872 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.2000 MeV
JEFF3.3 Threshold 4.8000 MeV
Cross Section (milli-barns)
15
10
5
0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
86
Incident Energy (eV)
52-Te-123

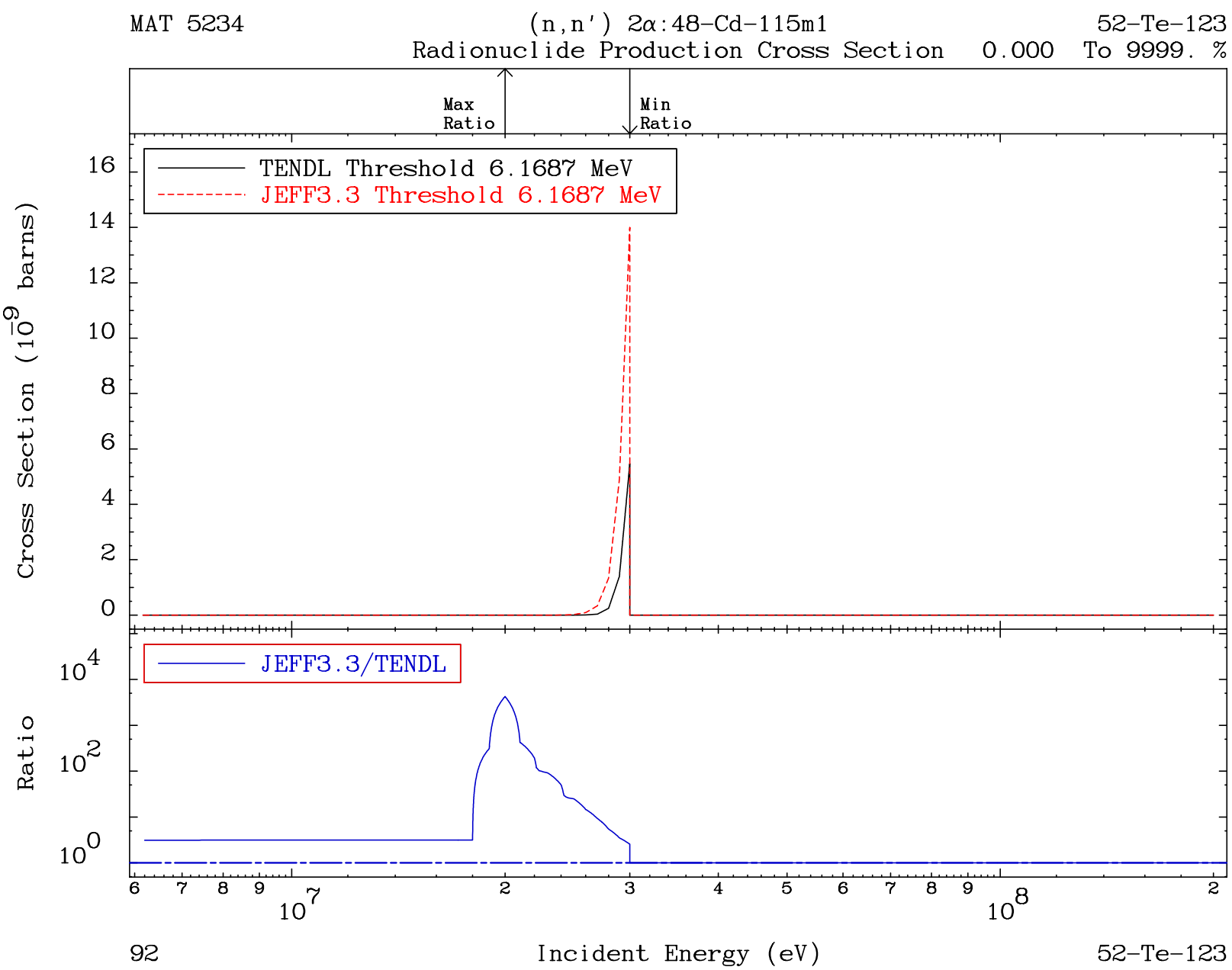

MAT 5234
(n,3n) α:50-Sn-117g
52-Te-123
Radionuclide Production Cross Section -98.30 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 17.484 MeV
JEFF3.3 Threshold 17.484 MeV
Cross Section (micro-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
87
Incident Energy (eV)
52-Te-123

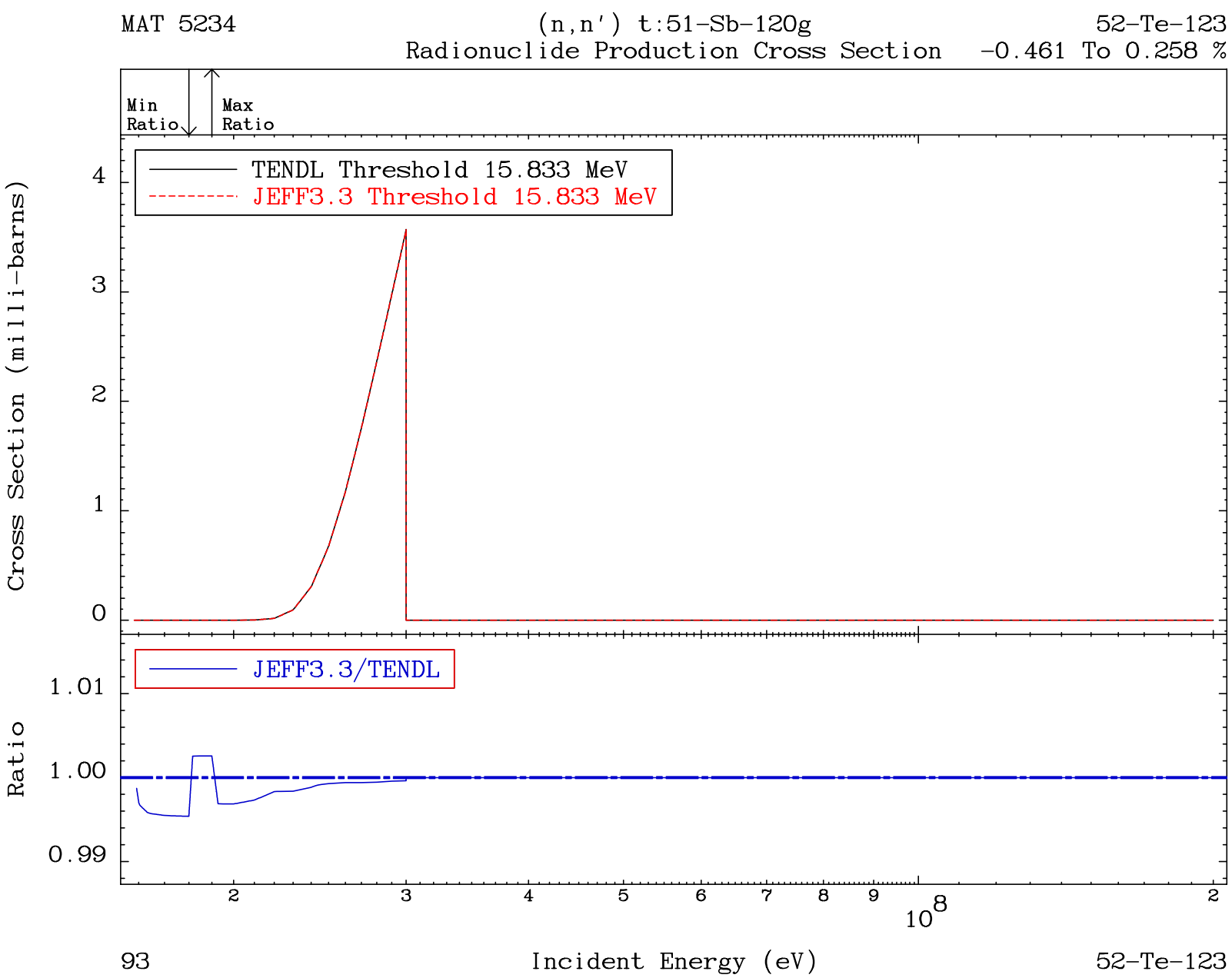

MAT 5234
(n,3n) α:50-Sn-117m2
52-Te-123
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 17.801 MeV
JEFF3.3 Threshold 21.000 MeV
Cross Section (micro-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
88
Incident Energy (eV)
52-Te-123

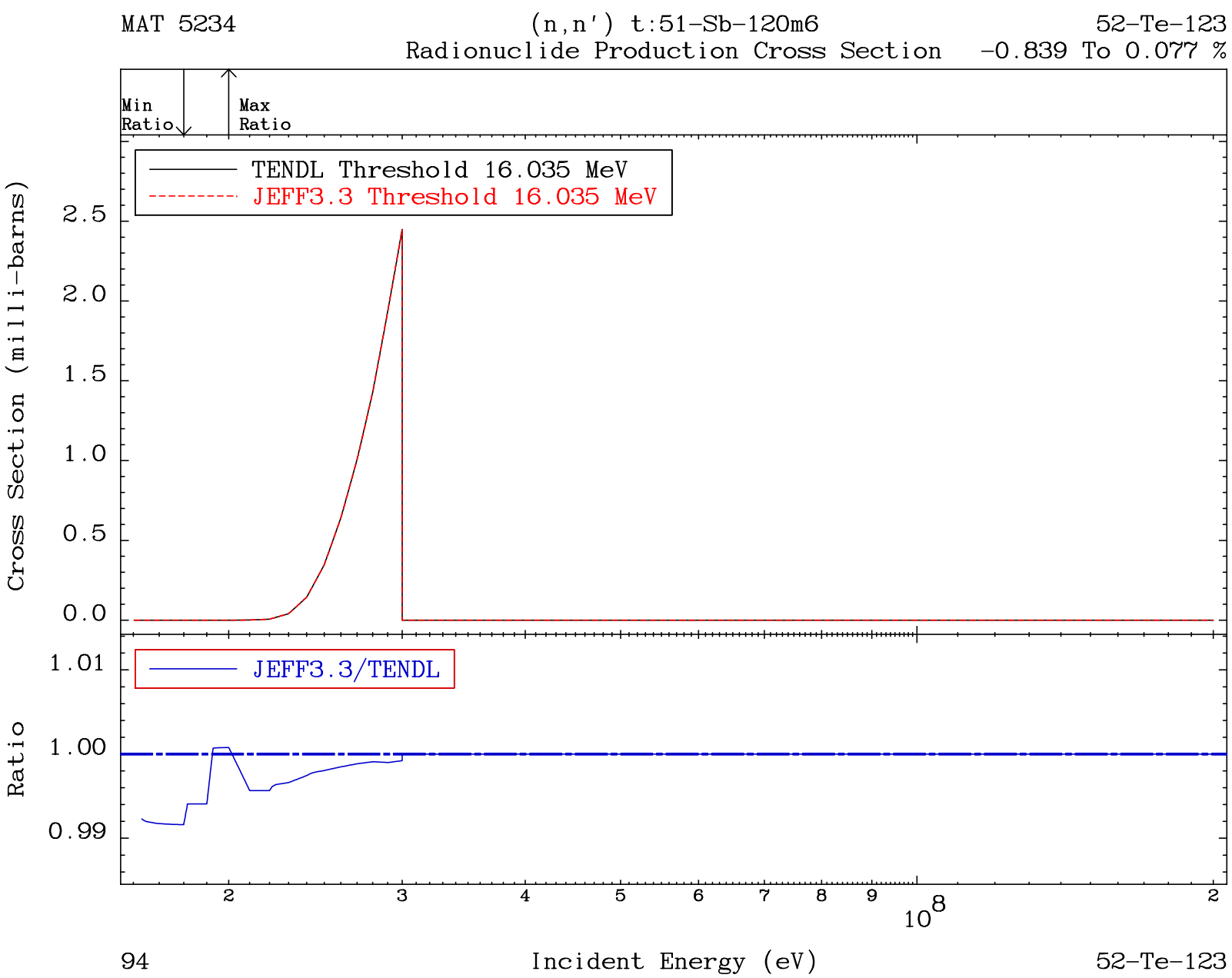

MAT 5234
(n,n') p:51-Sb-122g
52-Te-123
Radionuclide Production Cross Section -4.447 To 0.018 %
Min Ratio
Max Ratio
TENDL Threshold 8.1924 MeV
JEFF3.3 Threshold 8.1942 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.00
0.98
0.96
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
89
Incident Energy (eV)
52-Te-123

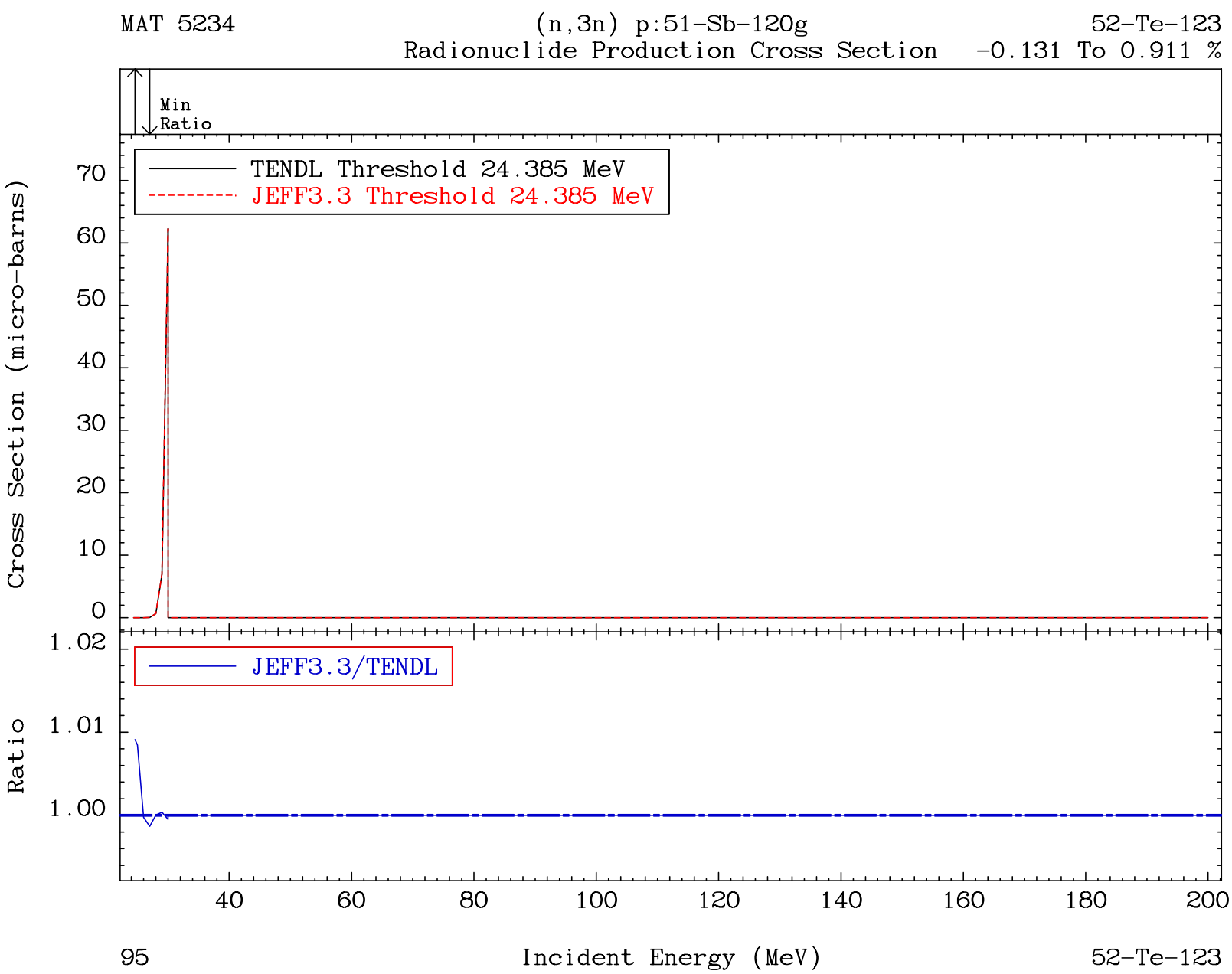

MAT 5234
(n,n') p:51-Sb-122m5
52-Te-123
Radionuclide Production Cross Section
-9.075 To 0.049 %
Min Ratio
Max Ratio
TENDL Threshold 8.3573 MeV
JEFF3.3 Threshold 8.3591 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.00
0.96
0.92
9
10^7
2
3
4
5
6
7
8
9
10^8
2
90
Incident Energy (eV)
52-Te-123

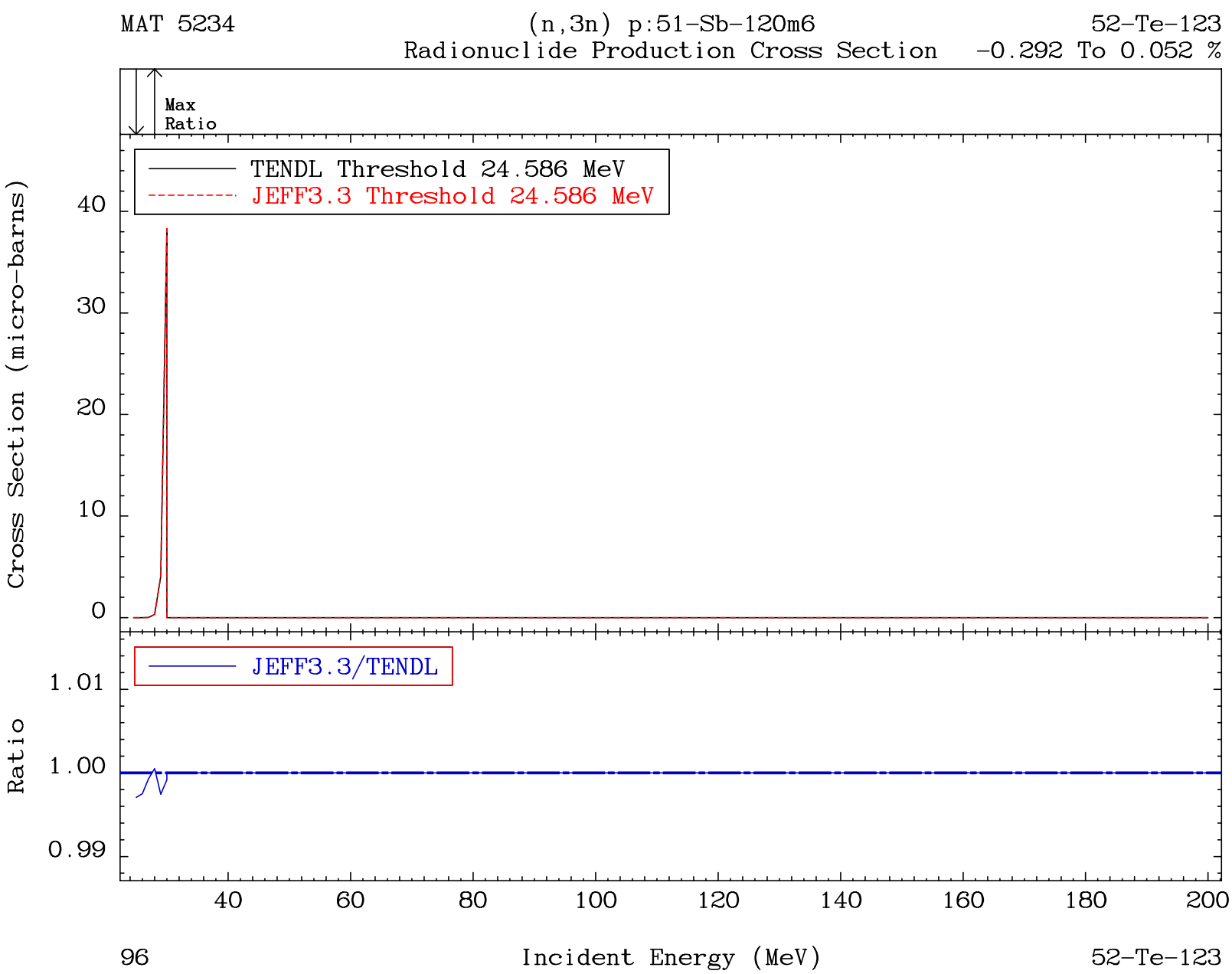

MAT 5234
(n,n') 2α:48-Cd-115g
52-Te-123
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 20.000 MeV
JEFF3.3 Threshold 5.9863 MeV
Cross Section (10^{-9} barns)
0
1
2
3
4
5
JEFF3.3/TENDL
Ratio
10^0
10^1
10^2
10^3
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
91
Incident Energy (eV)
52-Te-123

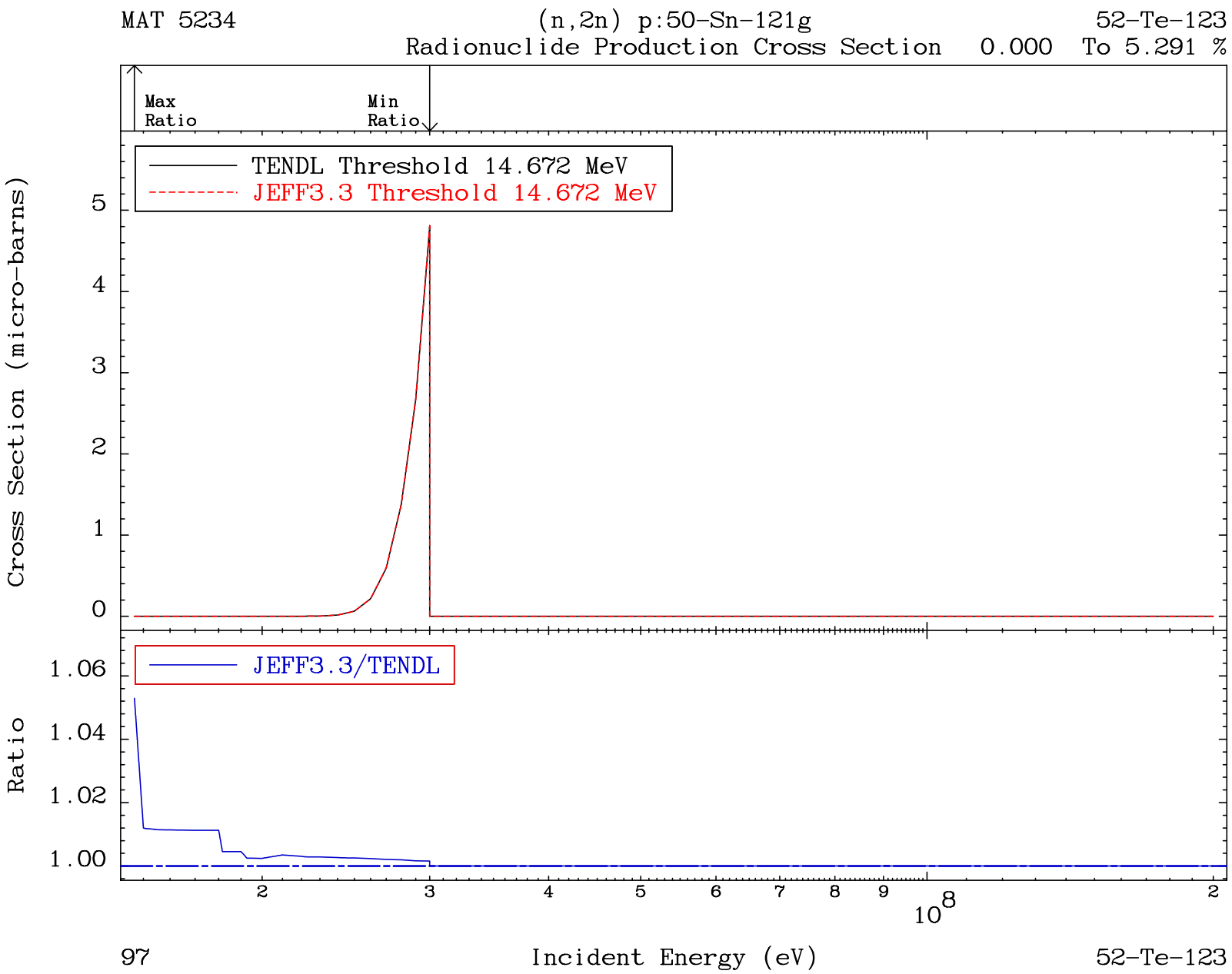

MAT 5234
(n,n') 2α:48-Cd-115m1
52-Te-123
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.1687 MeV
JEFF3.3 Threshold 6.1687 MeV
Cross Section (10^{-9} barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
92
Incident Energy (eV)
52-Te-123

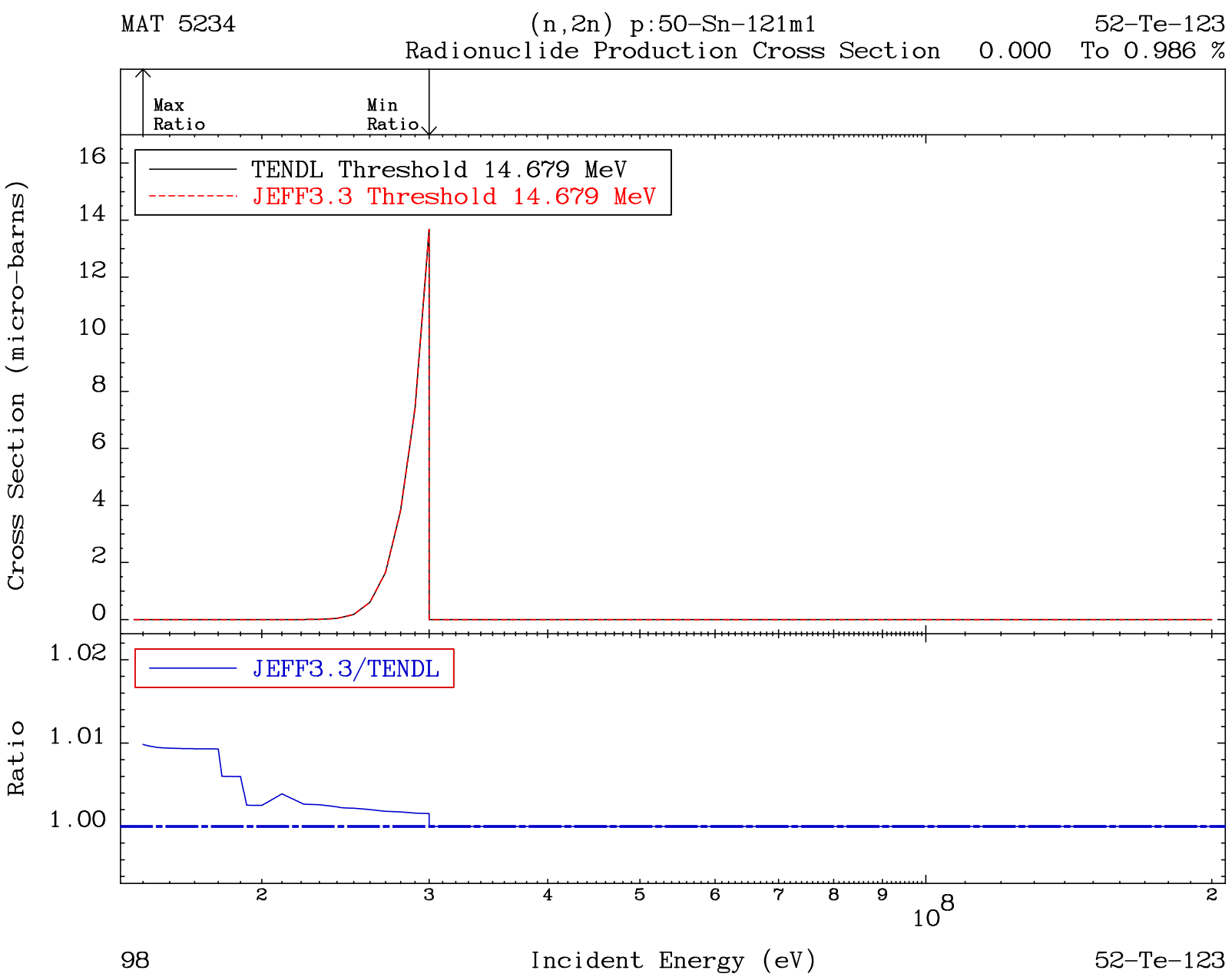

MAT 5234
(n,n') t:51-Sb-120g
52-Te-123
Radionuclide Production Cross Section -0.461 To 0.258 %
Min Ratio
Max Ratio
TENDL Threshold 15.833 MeV
JEFF3.3 Threshold 15.833 MeV
Cross Section (milli-barns)
4
3
2
1
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
93
Incident Energy (eV)
52-Te-123

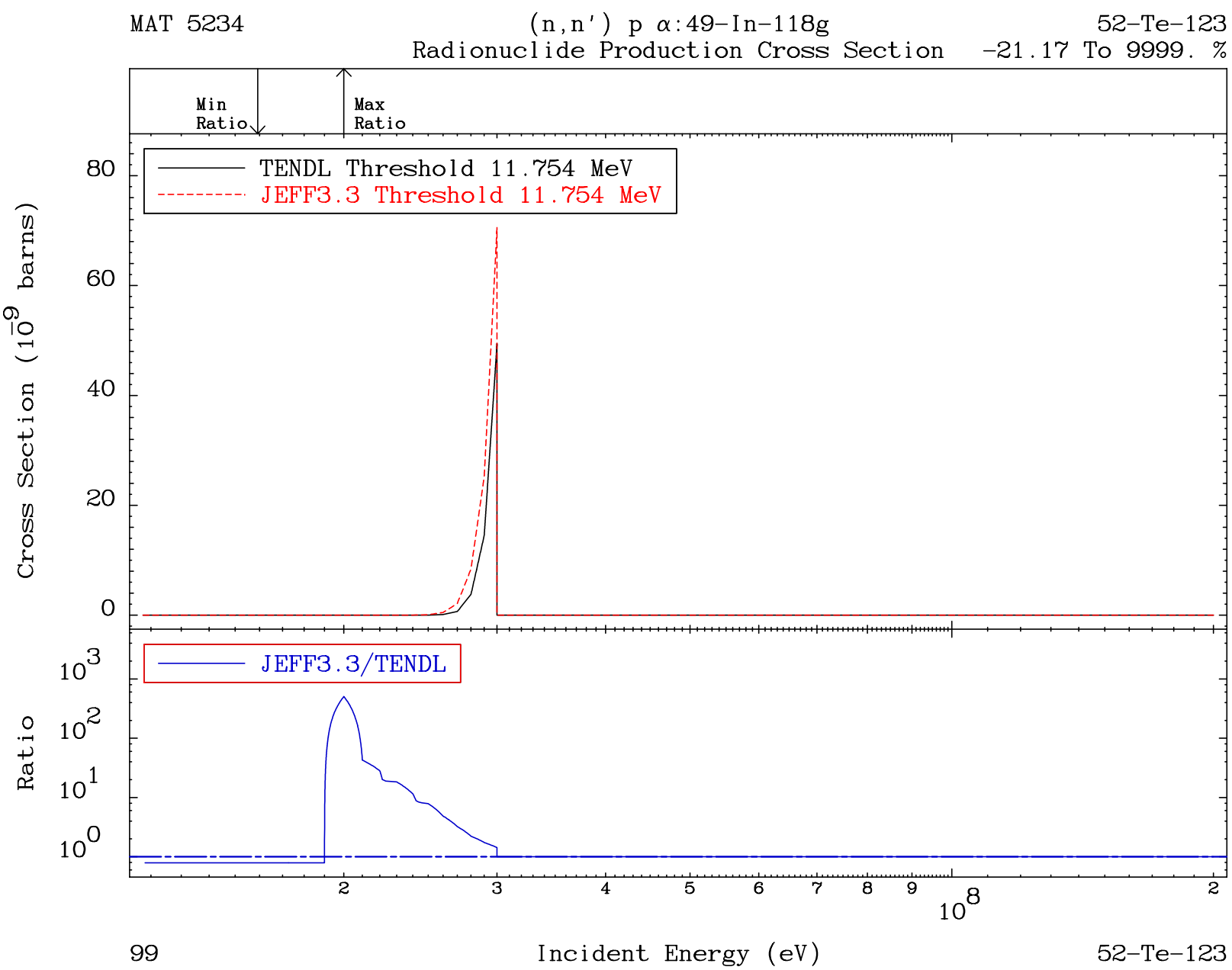

MAT 5234
(n,n') t:51-Sb-120m6
52-Te-123
Radionuclide Production Cross Section
-0.839 To 0.077 %
Min Ratio
Max Ratio
TENDL Threshold 16.035 MeV
JEFF3.3 Threshold 16.035 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
94
Incident Energy (eV)
52-Te-123

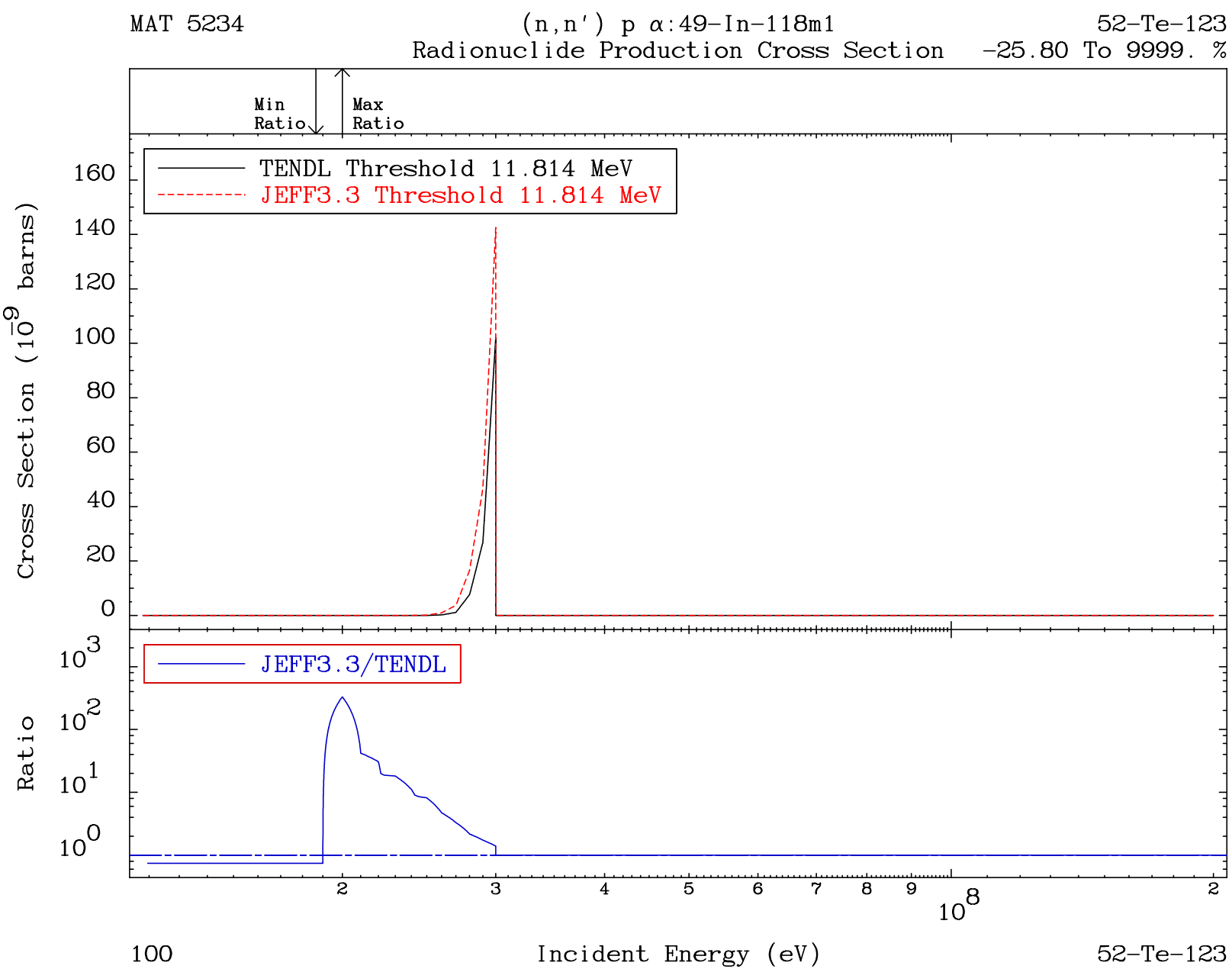

MAT 5234
(n,3n) p:51-Sb-120g
52-Te-123
Radionuclide Production Cross Section
-0.131 To 0.911 %
Min
Ratio
TENDL Threshold 24.385 MeV
JEFF3.3 Threshold 24.385 MeV
Cross Section (micro-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
40
60
80
100
120
140
160
180
200
95
Incident Energy (MeV)
52-Te-123

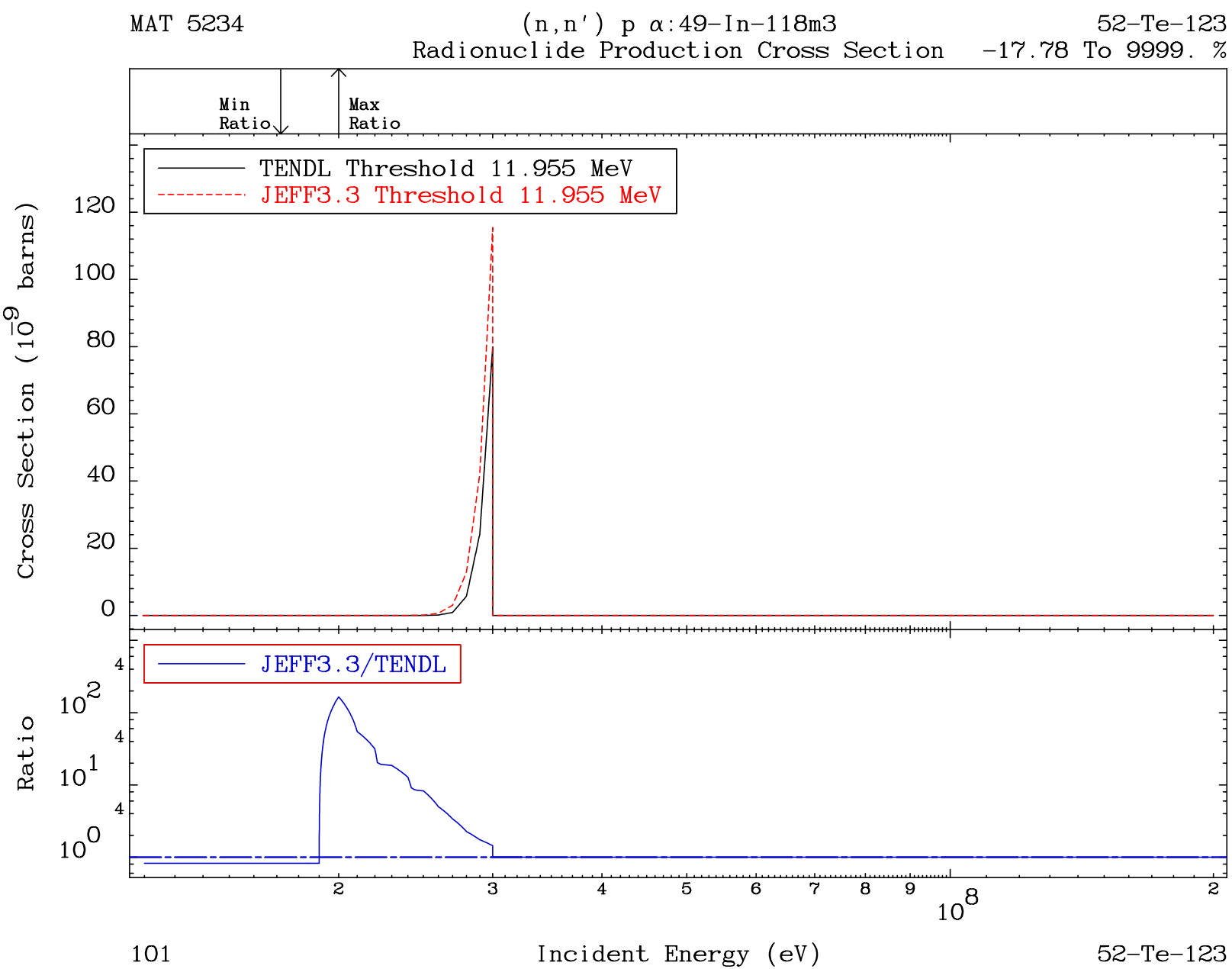

MAT 5234
(n,3n) p:51-Sb-120m6
52-Te-123
Radionuclide Production Cross Section
-0.292 To 0.052 %
Max
Ratio
TENDL Threshold 24.586 MeV
JEFF3.3 Threshold 24.586 MeV
Cross Section (micro-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
96
Incident Energy (MeV)
52-Te-123

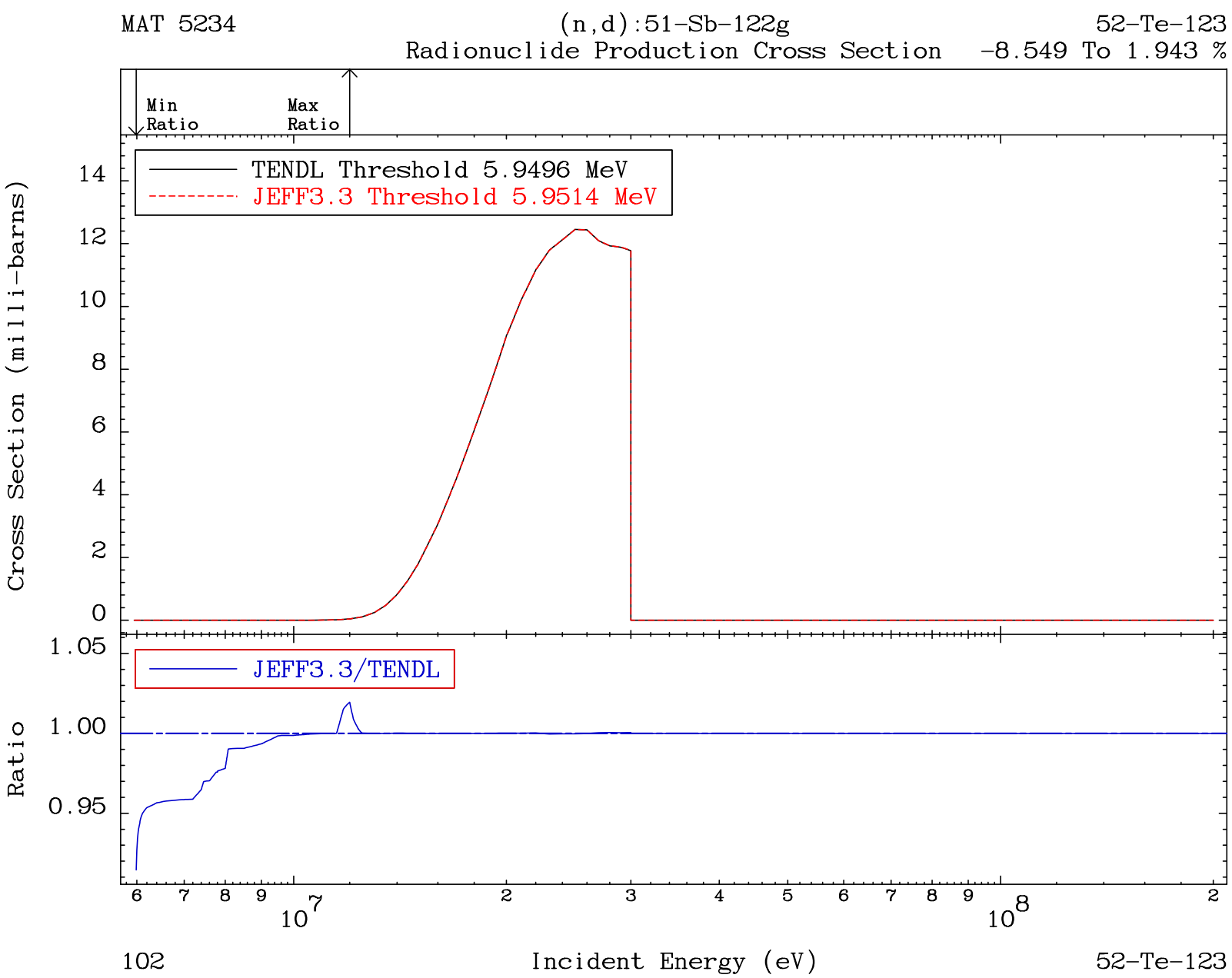

MAT 5234
(n,2n) p:50-Sn-121g
52-Te-123
Radionuclide Production Cross Section 0.000 To 5.291 %
Max Ratio
Min Ratio
TENDL Threshold 14.672 MeV
JEFF3.3 Threshold 14.672 MeV
Cross Section (micro-barns)
0
1
2
3
4
5
JEFF3.3/TENDL
Ratio
1.00
1.02
1.04
1.06
2
3
4
5
6
7
8
9
10^8
2
97
Incident Energy (eV)
52-Te-123

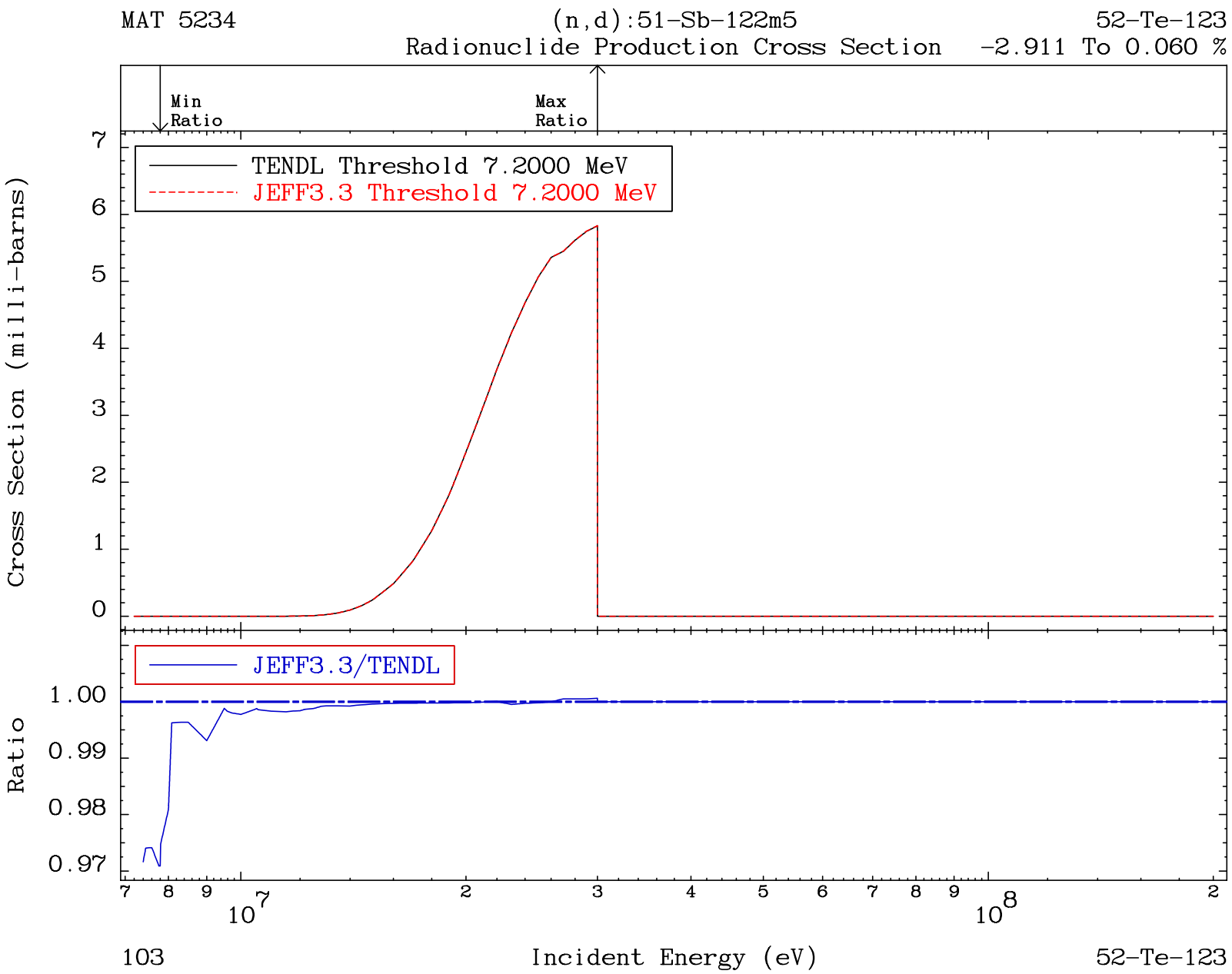

MAT 5234
(n,2n) p:50-Sn-121m1
52-Te-123
Radionuclide Production Cross Section 0.000 To 0.986 %
Max Ratio
Min Ratio
TENDL Threshold 14.679 MeV
JEFF3.3 Threshold 14.679 MeV
Cross Section (micro-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
98
Incident Energy (eV)
52-Te-123

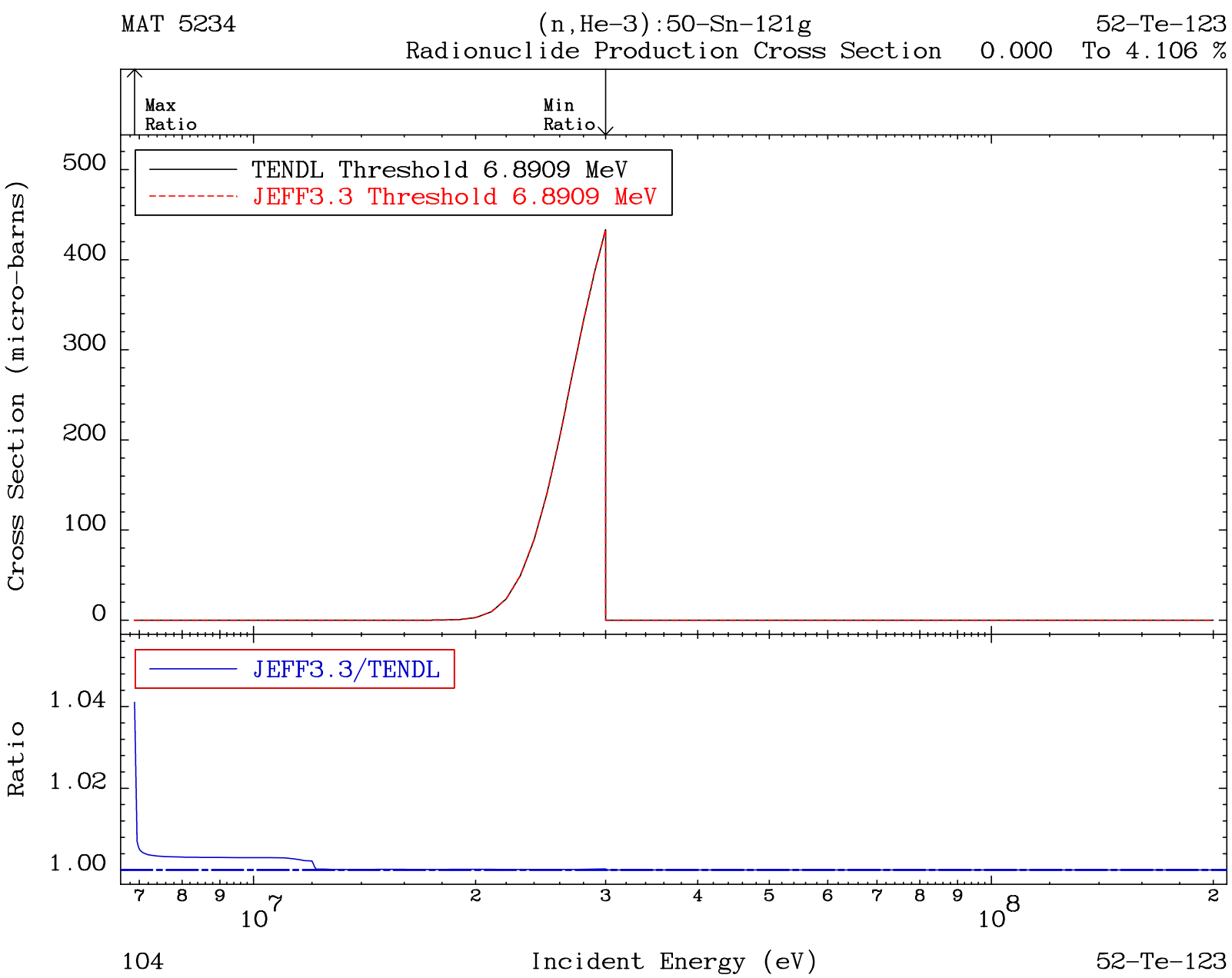

MAT 5234
(n,n') p α:49-In-118g
52-Te-123
Radionuclide Production Cross Section
-21.17 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 11.754 MeV
JEFF3.3 Threshold 11.754 MeV
Cross Section (10^{-9} barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
99
Incident Energy (eV)
52-Te-123

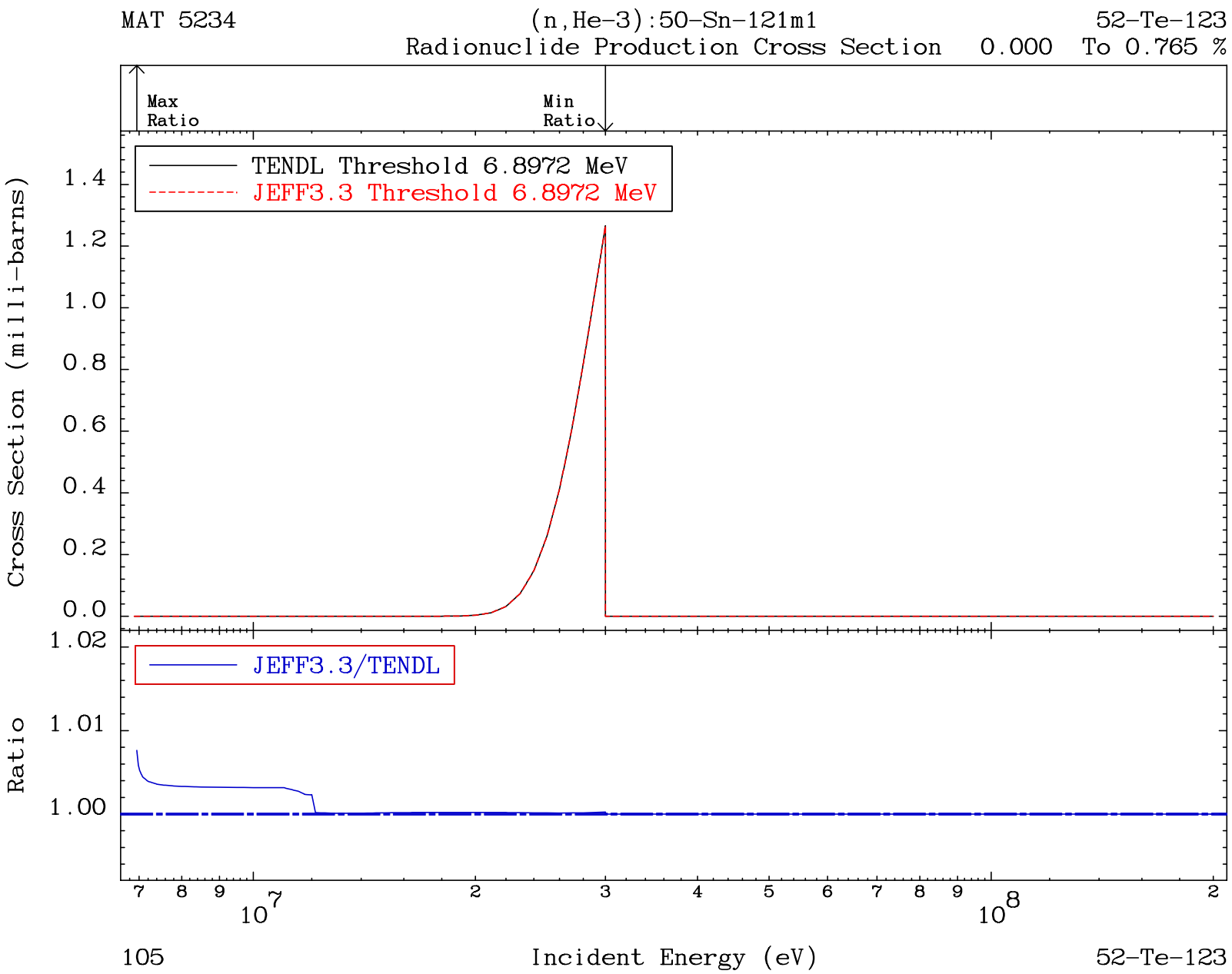

MAT 5234
(n,n') p α:49-In-118m1
52-Te-123
Radionuclide Production Cross Section
-25.80 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 11.814 MeV
JEFF3.3 Threshold 11.814 MeV
Cross Section (10^{-9} barns)
160
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
100
Incident Energy (eV)
52-Te-123

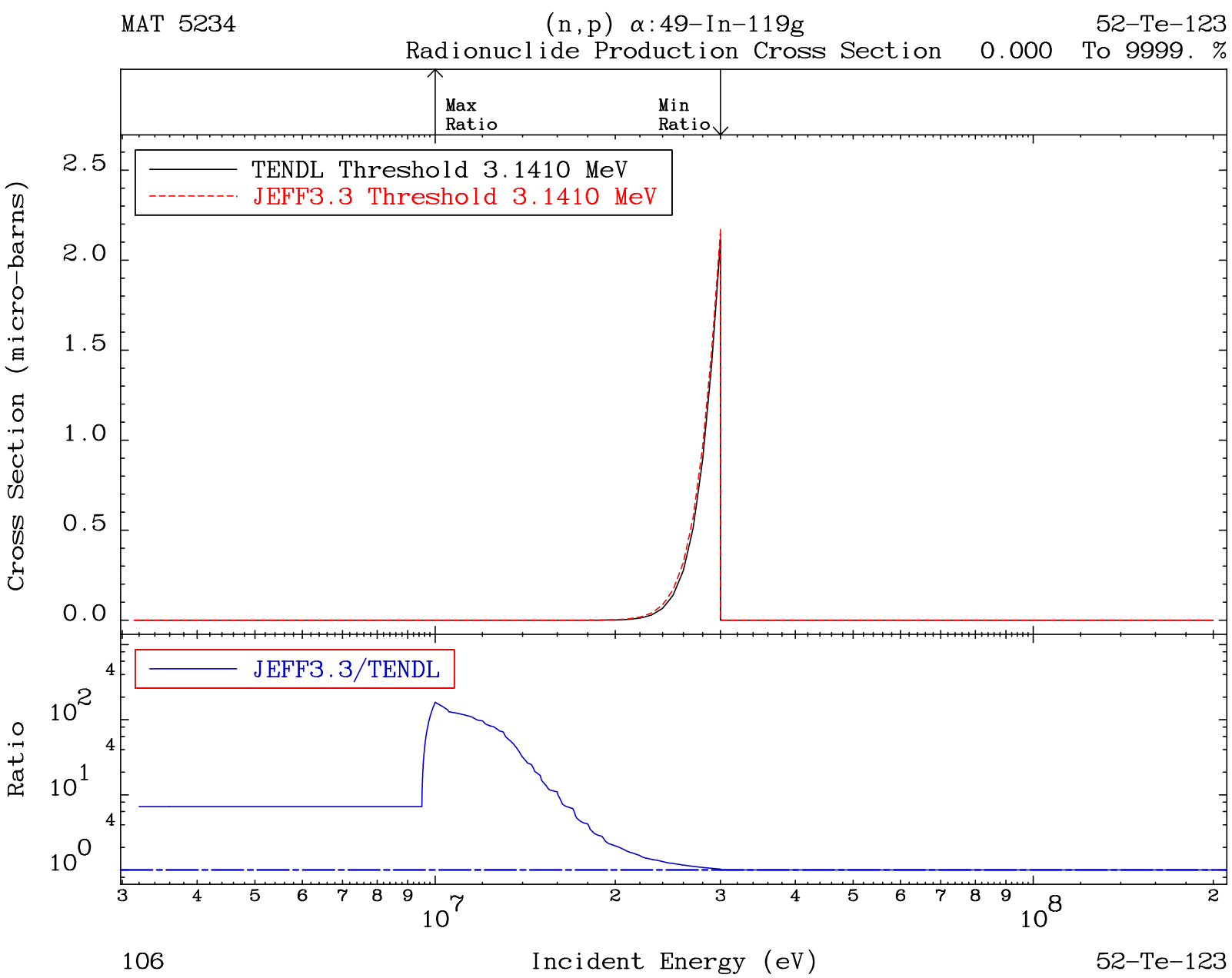

MAT 5234
(n,n') p α:49-In-118m3
52-Te-123
Radionuclide Production Cross Section -17.78 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 11.955 MeV
JEFF3.3 Threshold 11.955 MeV
Cross Section (10^{-9} barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
101
Incident Energy (eV)
52-Te-123

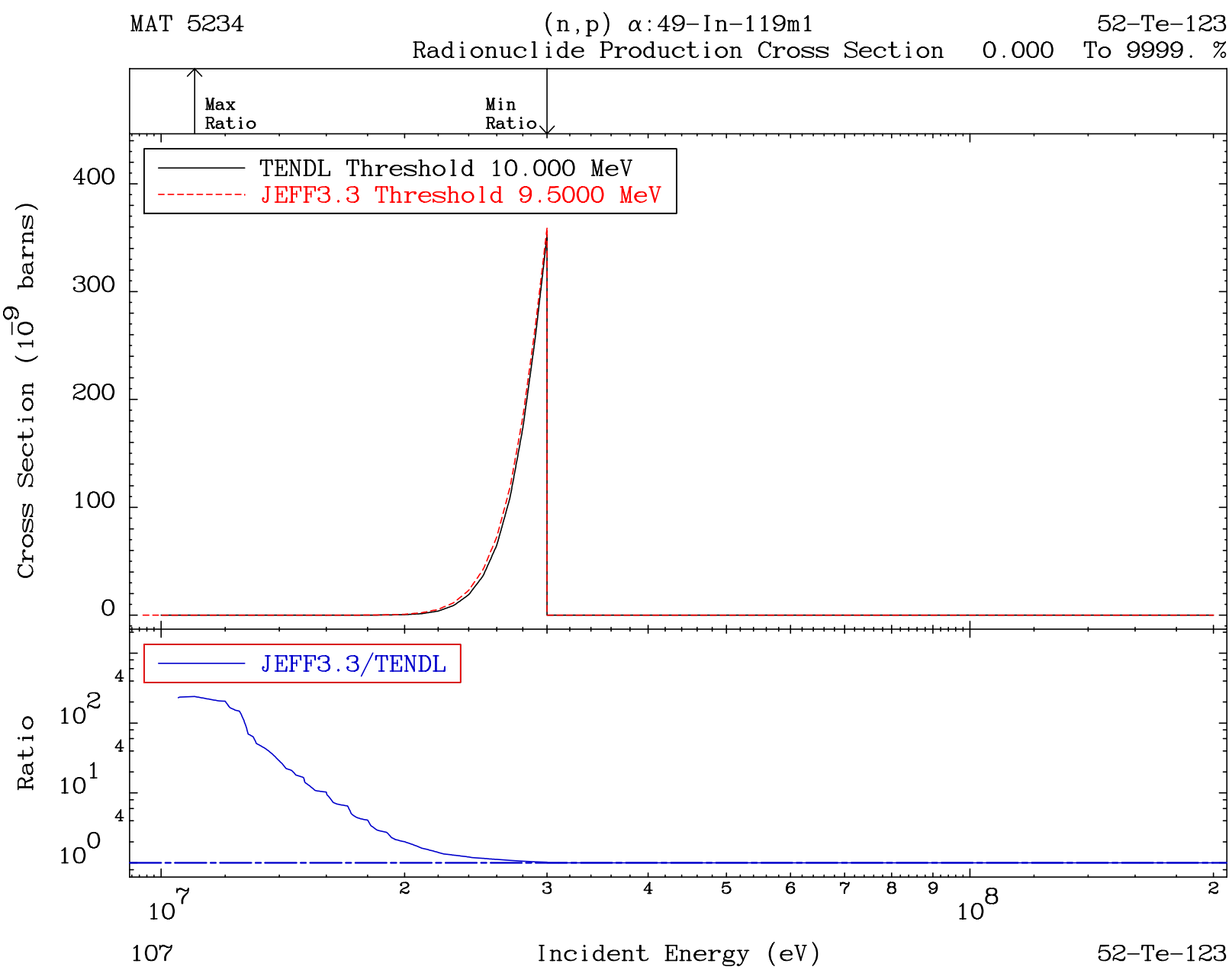

MAT 5234
(n,d):51-Sb-122g
52-Te-123
Radionuclide Production Cross Section
-8.549 To 1.943 %
Min Ratio
Max Ratio
TENDL Threshold 5.9496 MeV
JEFF3.3 Threshold 5.9514 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.05
1.00
0.95
6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
102
Incident Energy (eV)
52-Te-123

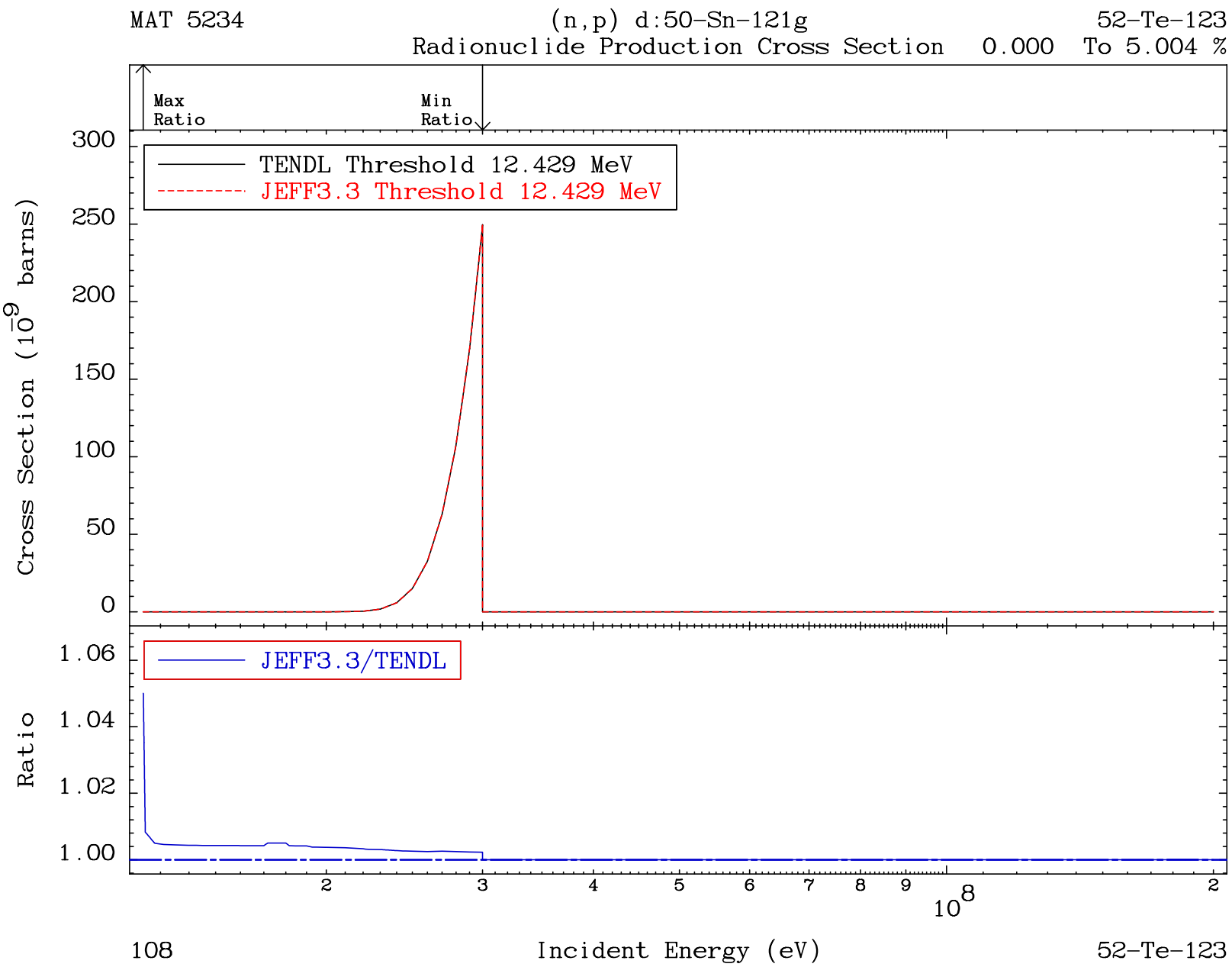

MAT 5234
(n,d):51-Sb-122m5
52-Te-123
Radionuclide Production Cross Section
-2.911 To 0.060 %
Min Ratio
Max Ratio
TENDL Threshold 7.2000 MeV
JEFF3.3 Threshold 7.2000 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
103
52-Te-123

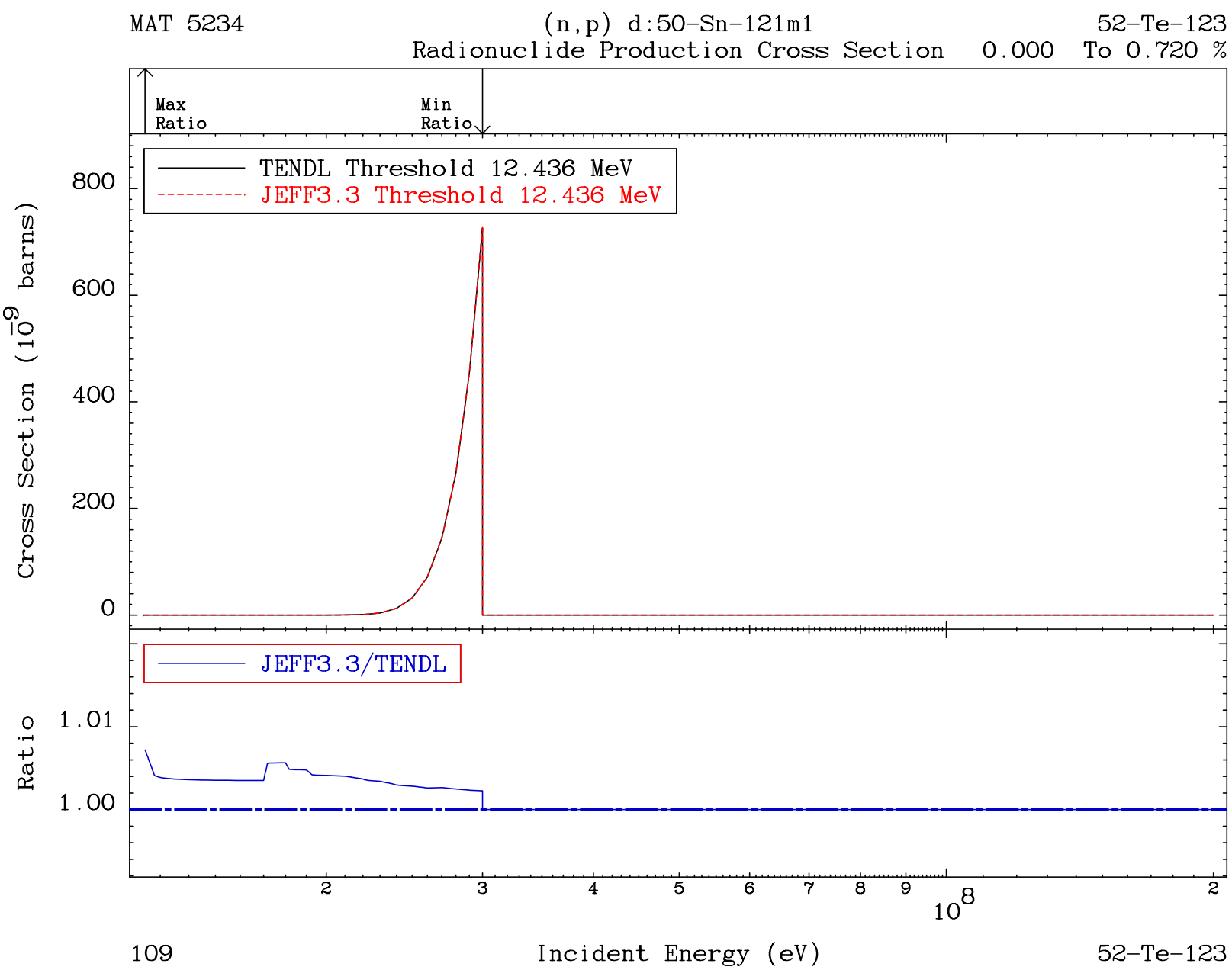

MAT 5234
(n,He-3):50-Sn-121g
52-Te-123
Radionuclide Production Cross Section 0.000 To 4.106 %
Max Ratio
Min Ratio
TENDL Threshold 6.8909 MeV
JEFF3.3 Threshold 6.8909 MeV
Cross Section (micro-barns)
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.04
1.02
1.00
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
104
Incident Energy (eV)
52-Te-123

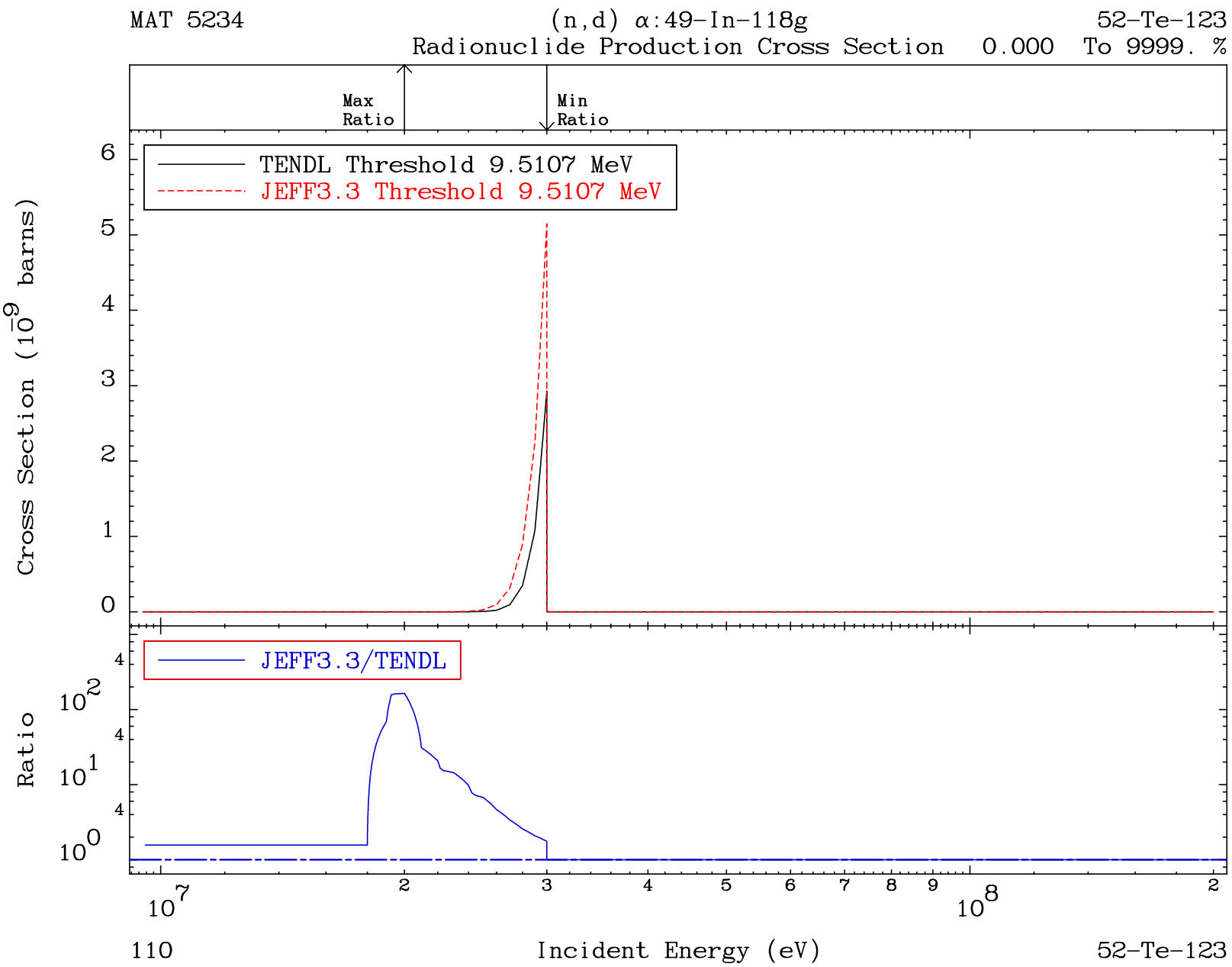

MAT 5234
(n,He-3):50-Sn-121m1
52-Te-123
Radionuclide Production Cross Section 0.000 To 0.765 %
Max Ratio
Min Ratio
TENDL Threshold 6.8972 MeV
JEFF3.3 Threshold 6.8972 MeV
Cross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
105
Incident Energy (eV)
52-Te-123

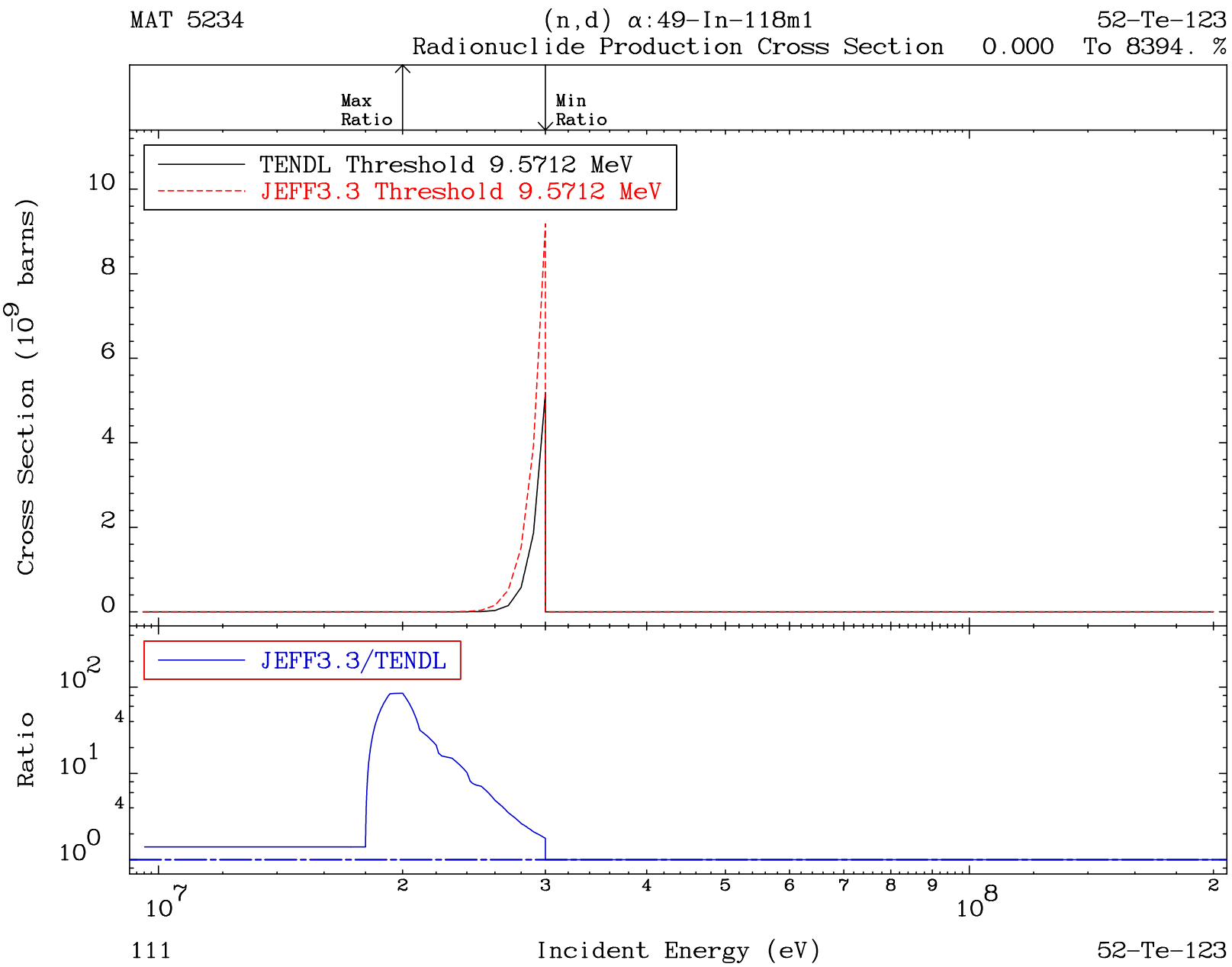

MAT 5234
(n,p) α:49-In-119g
52-Te-123
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.1410 MeV
JEFF3.3 Threshold 3.1410 MeV
Cross Section (micro-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^2
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
106
Incident Energy (eV)
52-Te-123

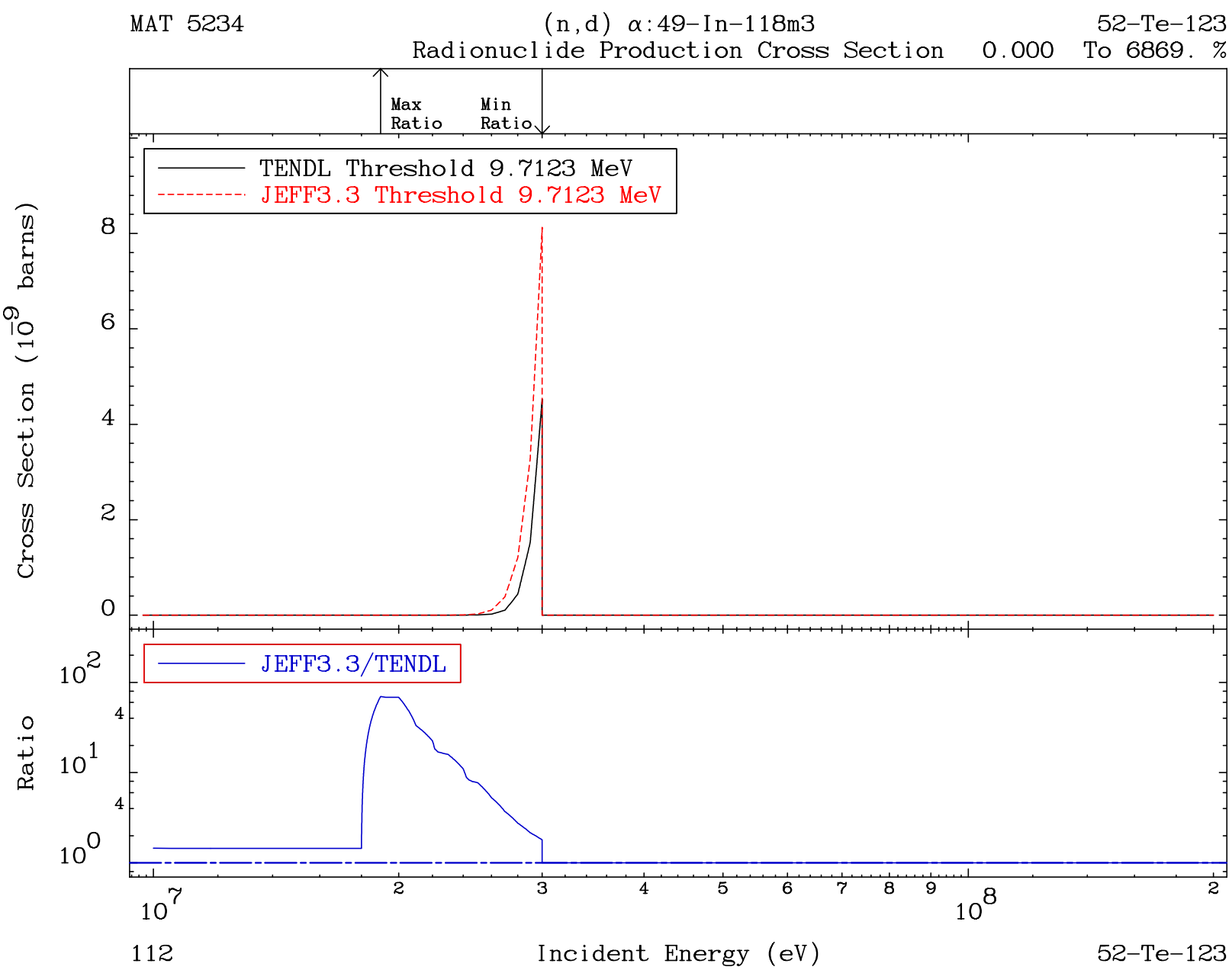

MAT 5234
(n,p) α:49-In-119m1
52-Te-123
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 10.000 MeV
JEFF3.3 Threshold 9.5000 MeV
Cross Section (10^{-9} barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
10^{2}
10^{1}
10^{0}
10^{7}
10^{8}
107
Incident Energy (eV)
52-Te-123


MAT 5234
(n,p) d:50-Sn-121g
52-Te-123
Radionuclide Production Cross Section 0.000 To 5.004 %
Max Ratio
Min Ratio
TENDL Threshold 12.429 MeV
JEFF3.3 Threshold 12.429 MeV
Cross Section (10^{-9} barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.06
1.04
1.02
1.00
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 0.000 To 0.720 %
Max Ratio
Min Ratio
TENDL Threshold 12.436 MeV
JEFF3.3 Threshold 12.436 MeV
Cross Section (10^{-9} barns)
800
600
400
200
0
JEFF3.3/TENDL
Ratio
1.01
1.00
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 9.5107 MeV
JEFF3.3 Threshold 9.5107 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 8394. %
Max Ratio
Min Ratio
TENDL Threshold 9.5712 MeV
JEFF3.3 Threshold 9.5712 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 6869. %
Max Ratio
Min Ratio
TENDL Threshold 9.7123 MeV
JEFF3.3 Threshold 9.7123 MeV
Cross Section (10^{-9} barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
112
52-Te-123