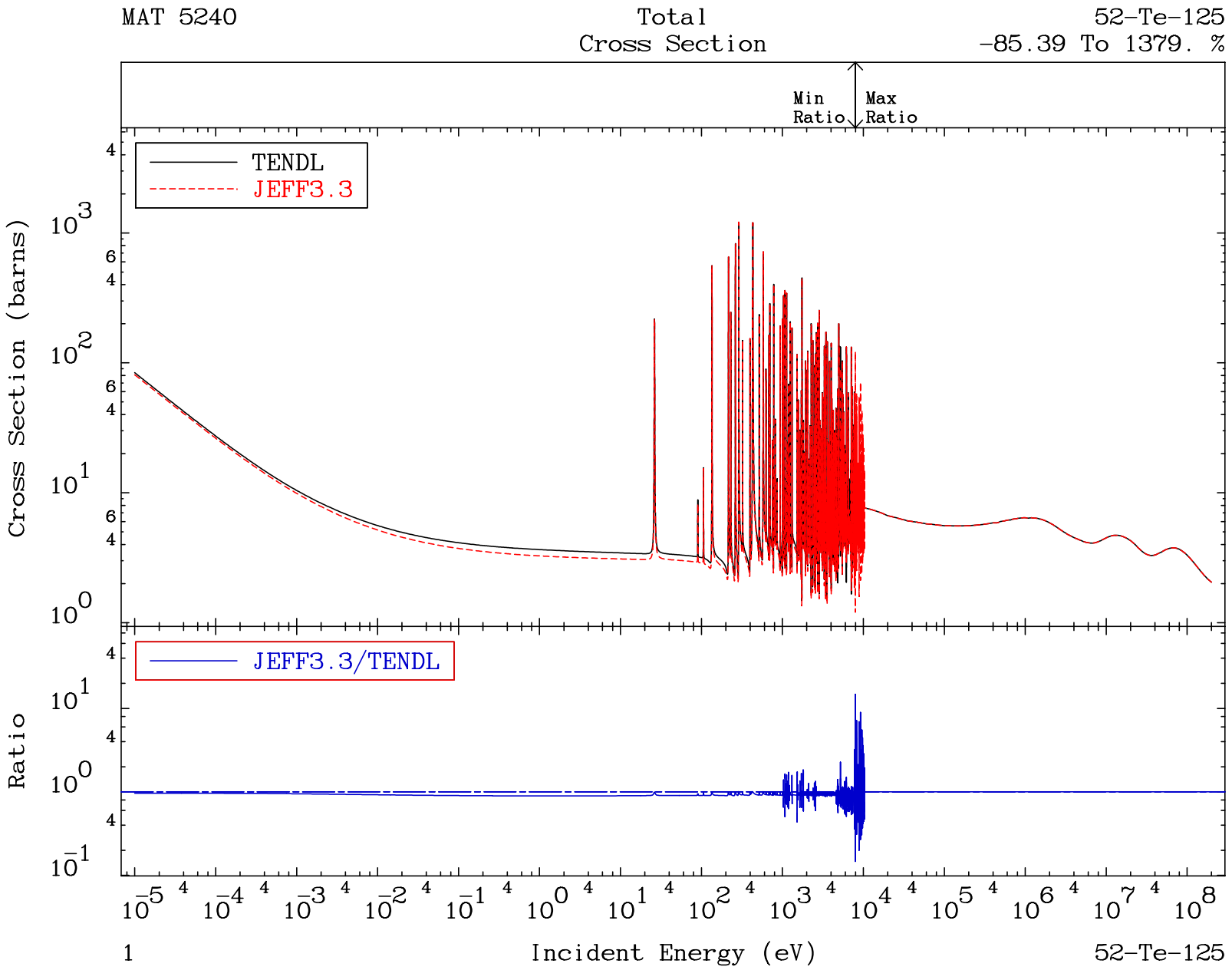
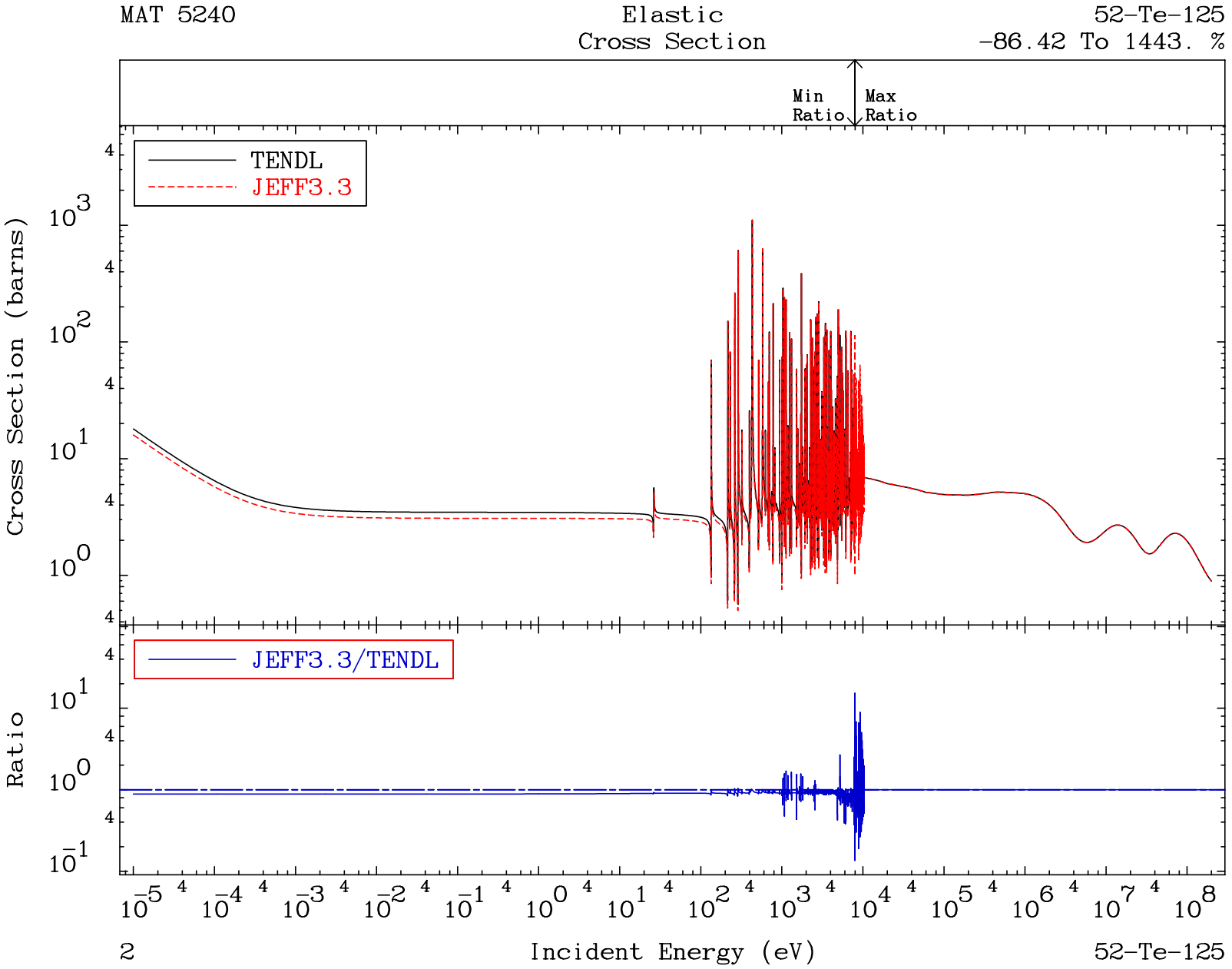
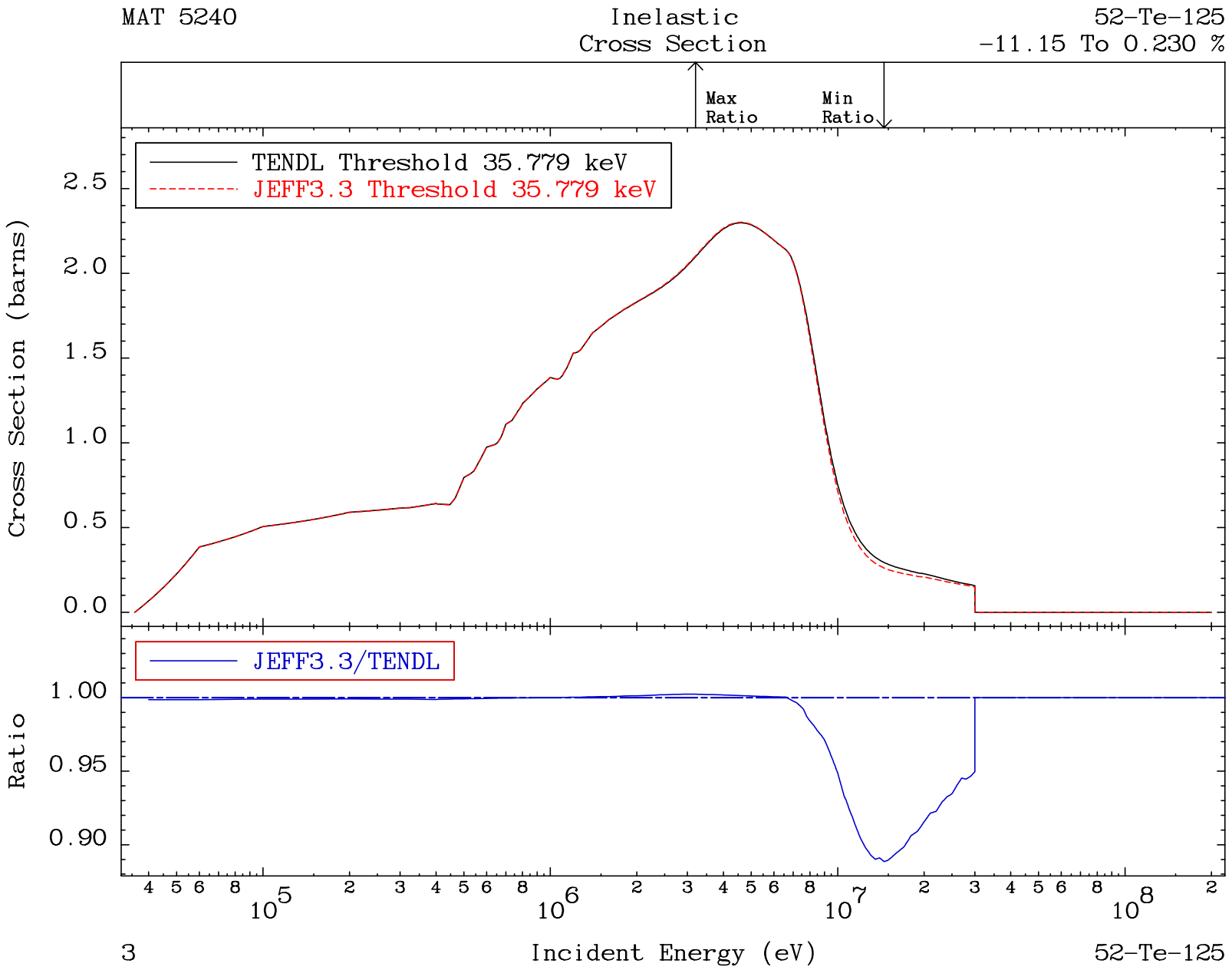
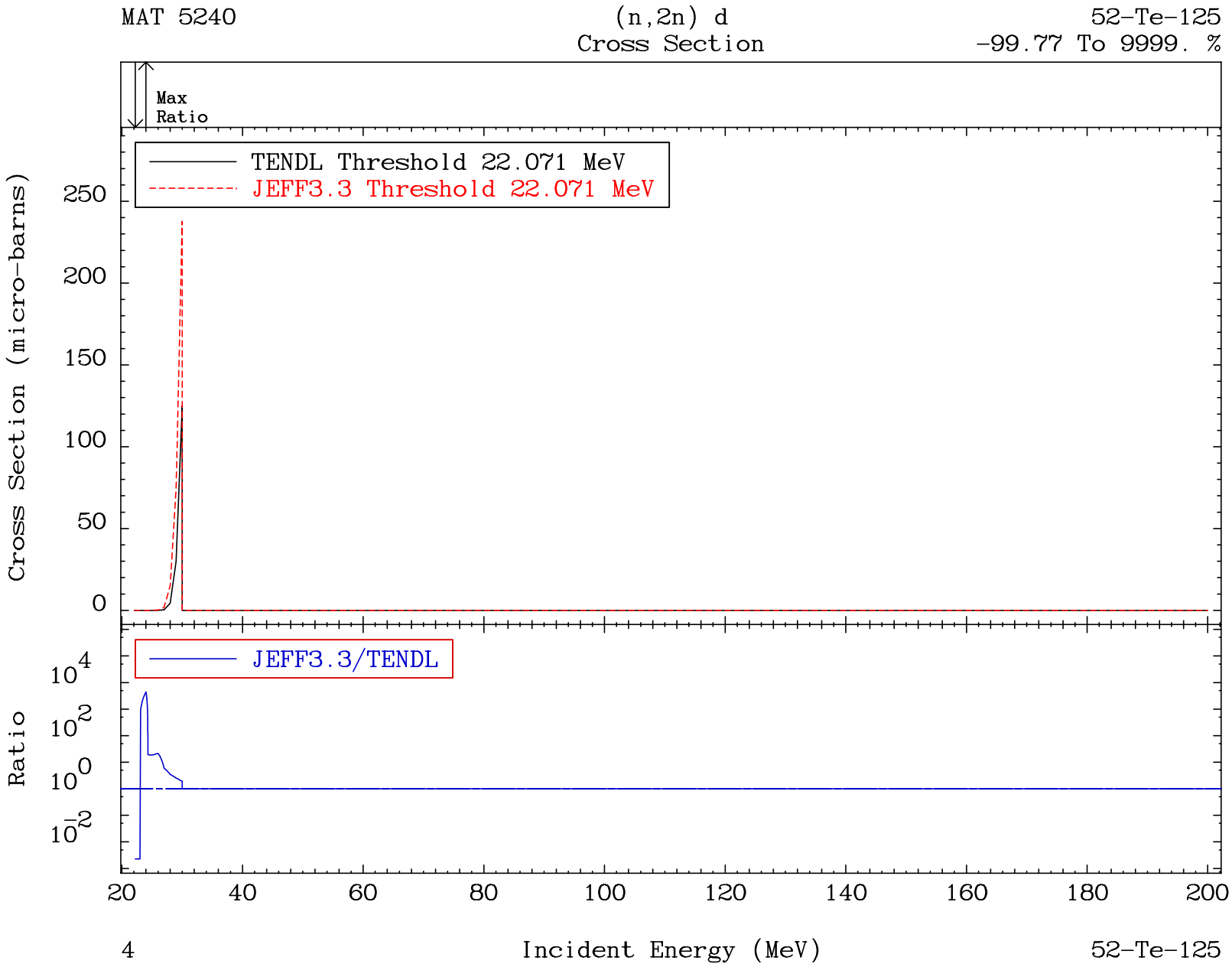
Program Complot
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

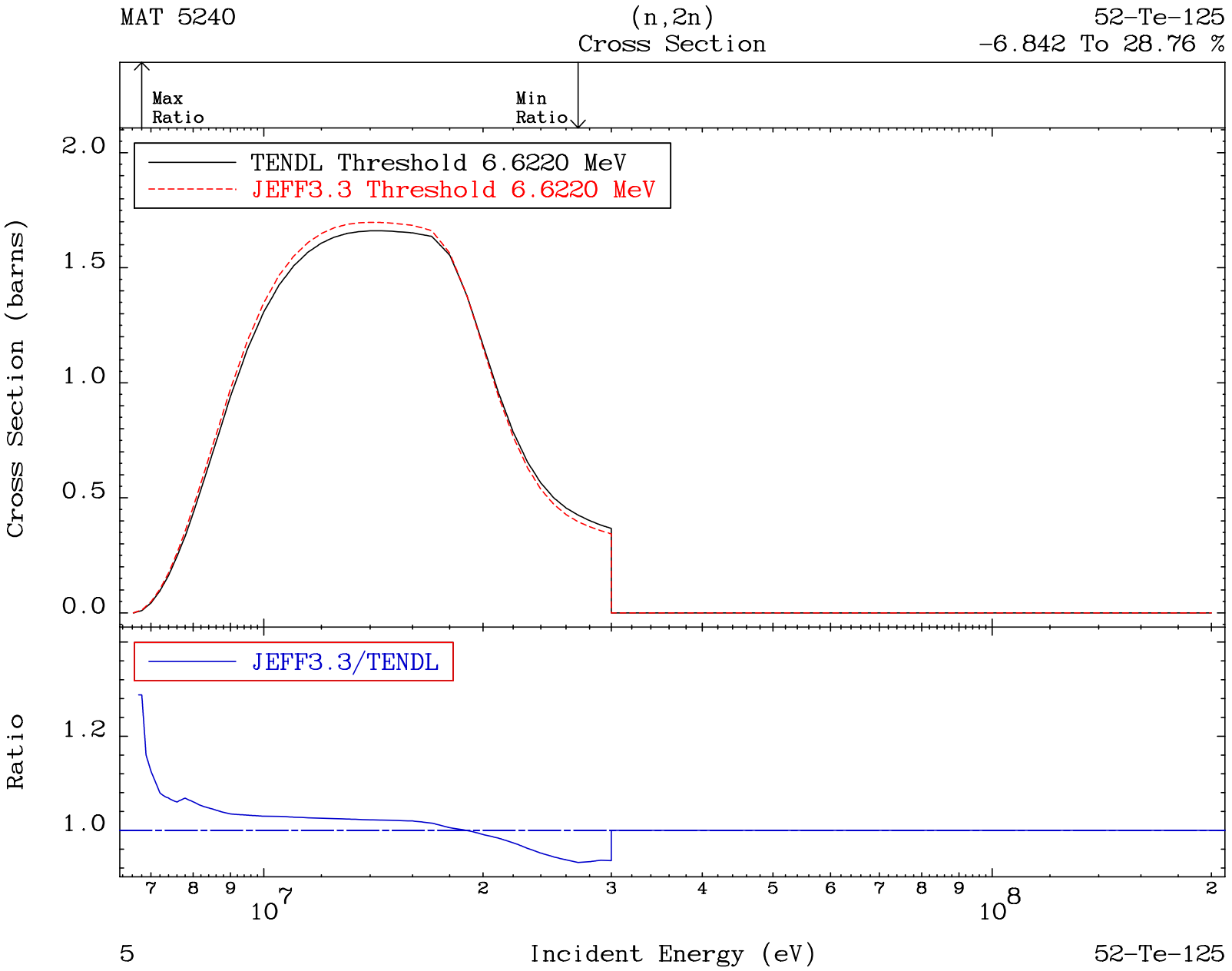
Press Mouse Button to Start

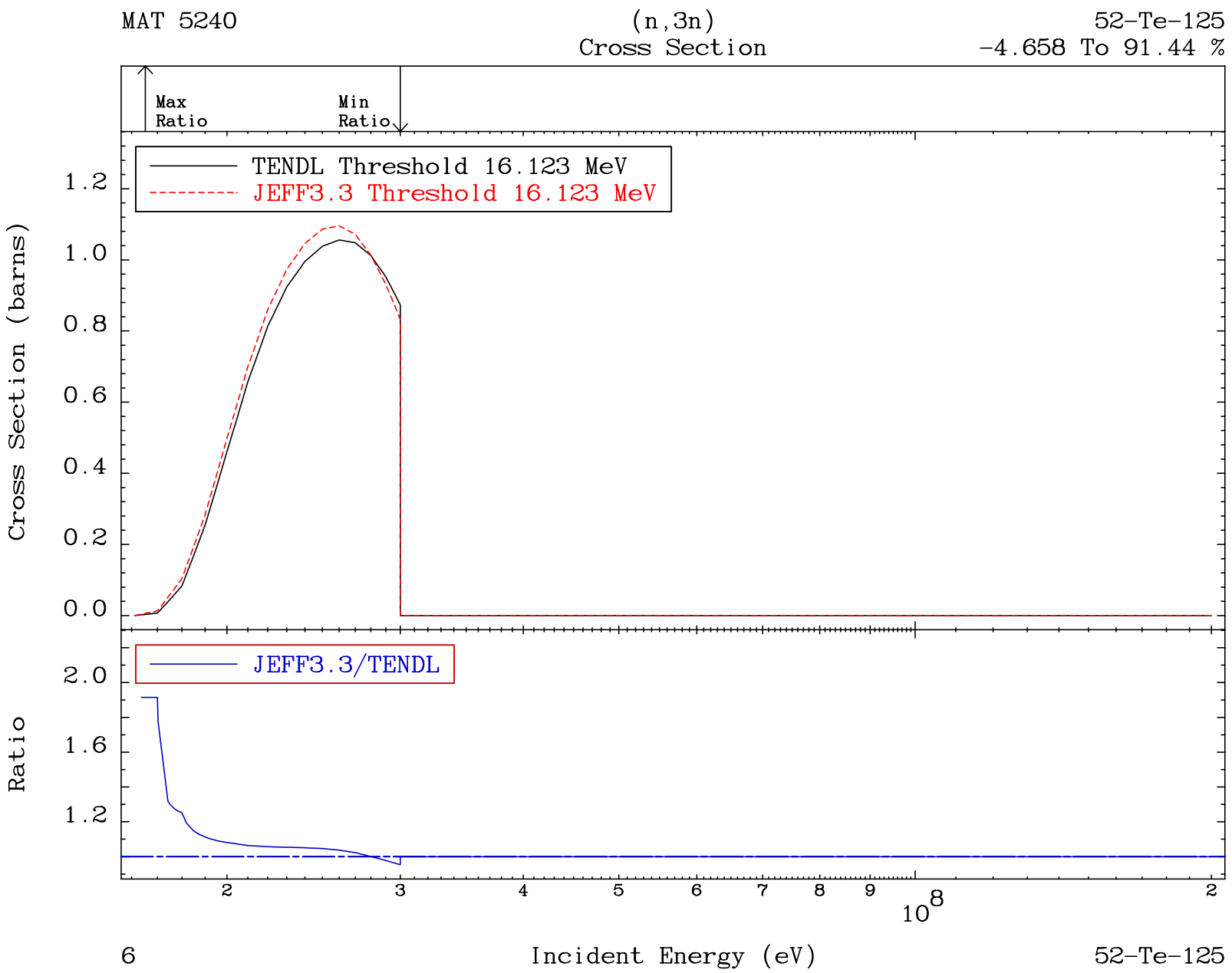

MAT 5240
Total
Cross Section
52-Te-125
-85.39 To 1379. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
1
52-Te-125

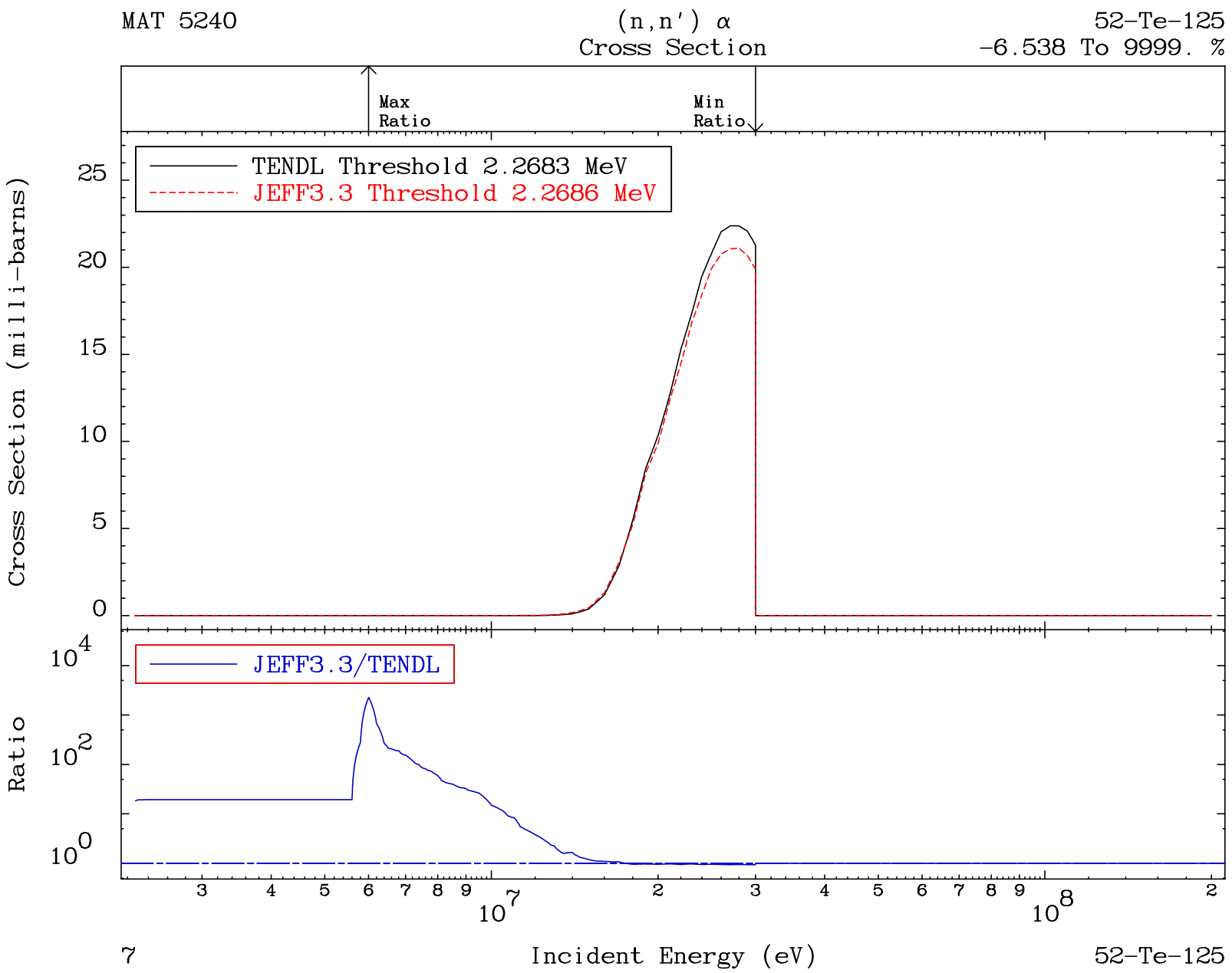

MAT 5240
Elastic
Cross Section
52-Te-125
-86.42 To 1443. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
2
52-Te-125

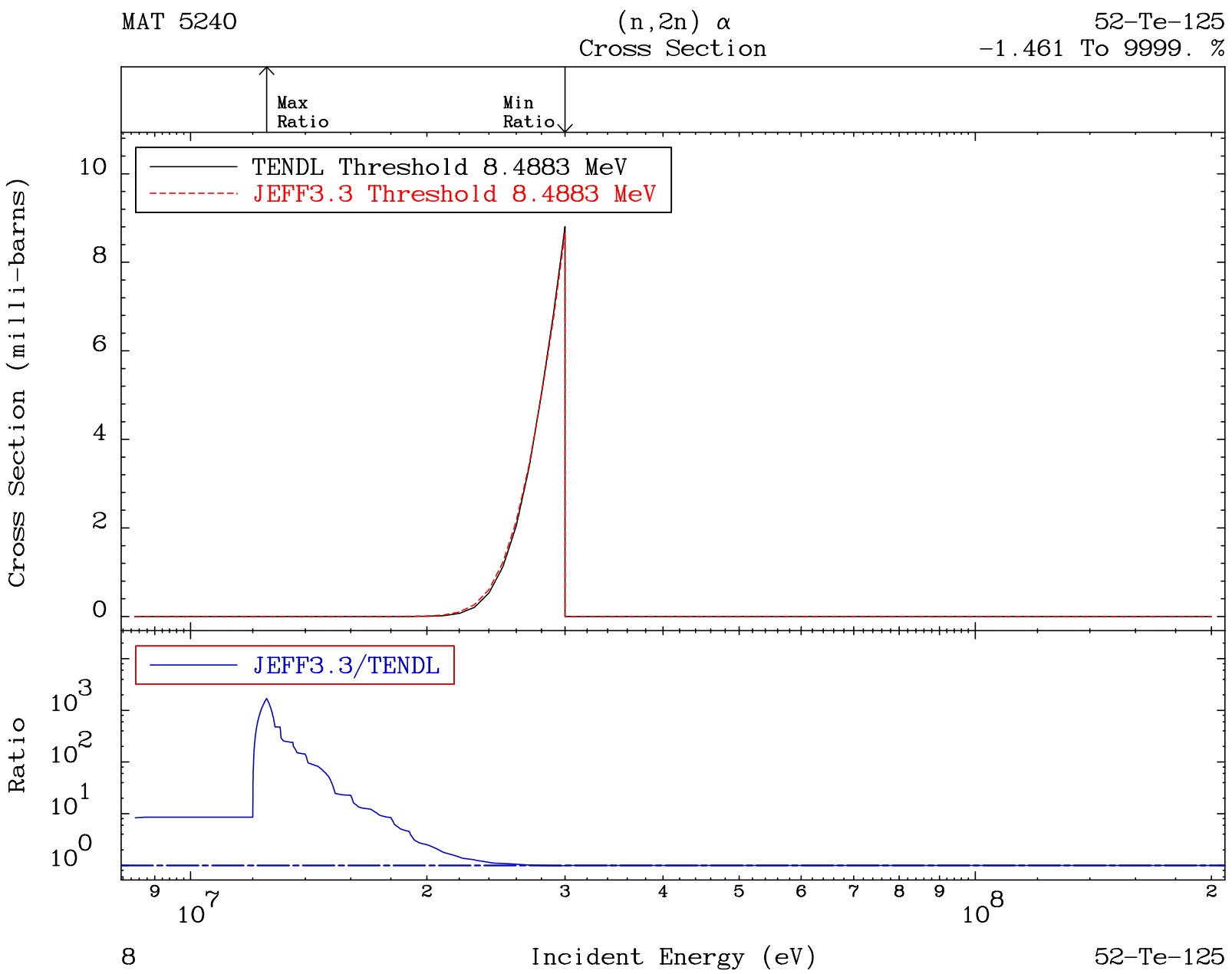

MAT 5240
Inelastic
Cross Section
52-Te-125
-11.15 To 0.230 %
Max
Ratio
Min
Ratio
TENDL Threshold 35.779 keV
JEFF3.3 Threshold 35.779 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.00
0.95
0.90
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
52-Te-125

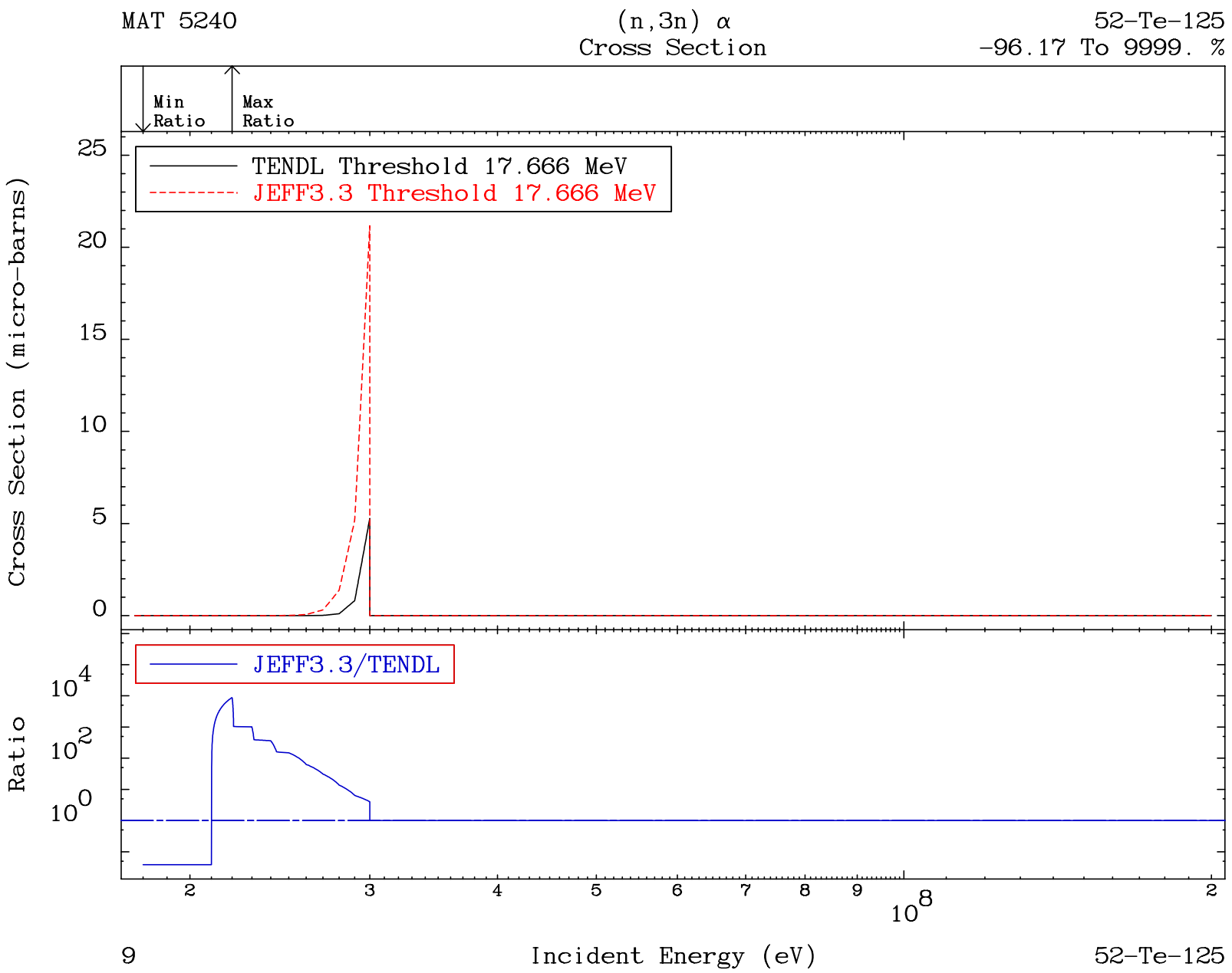

MAT 5240
(n,2n) d
Cross Section
52-Te-125
-99.77 To 9999. %
Max
Ratio
TENDL Threshold 22.071 MeV
JEFF3.3 Threshold 22.071 MeV
Cross Section (micro-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
10^-2
20
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
52-Te-125

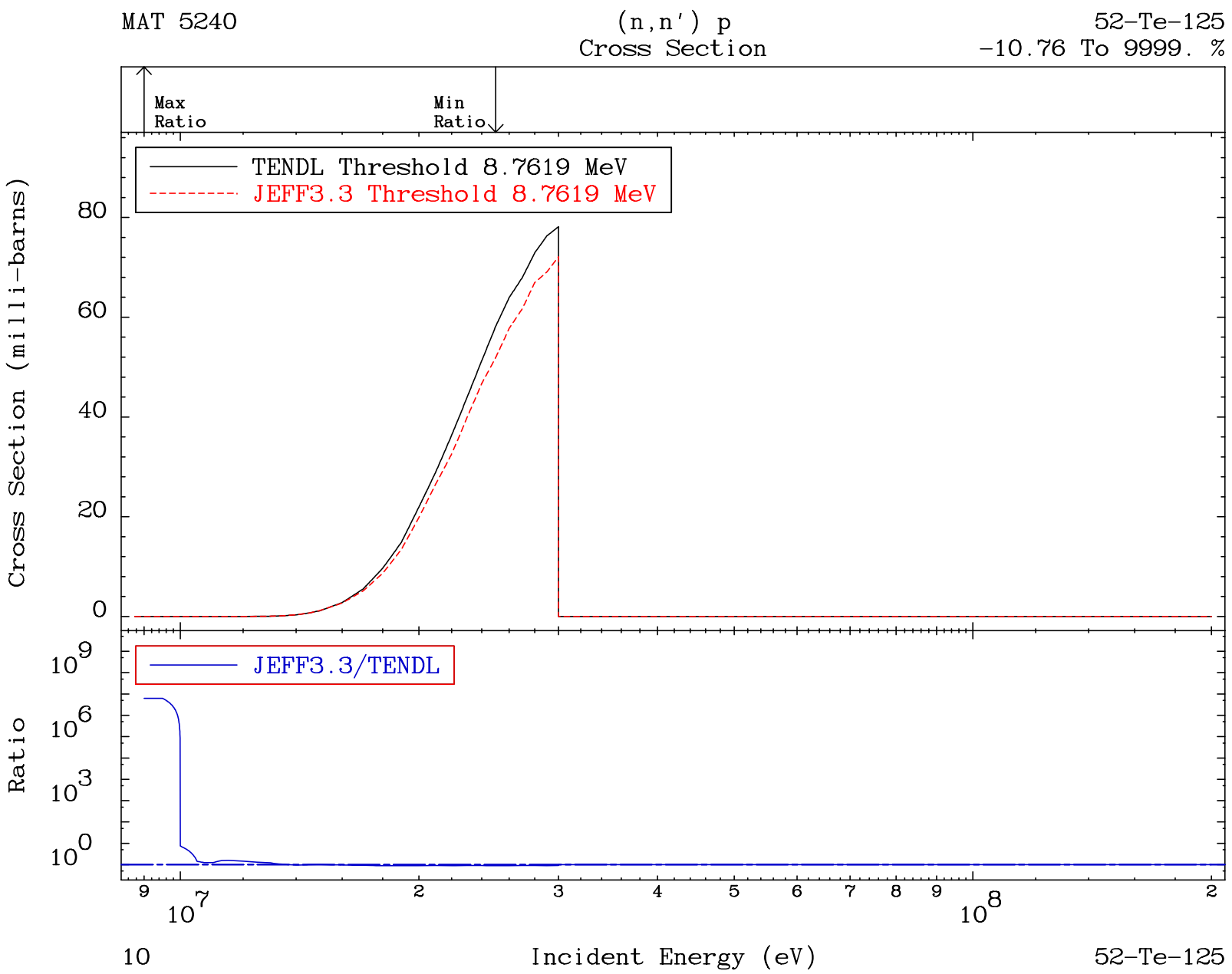

MAT 5240
(n,2n)
Cross Section
52-Te-125
-6.842 To 28.76 %
Max Ratio
Min Ratio
TENDL Threshold 6.6220 MeV
JEFF3.3 Threshold 6.6220 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.2
1.0
7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
5
Incident Energy (eV)
52-Te-125

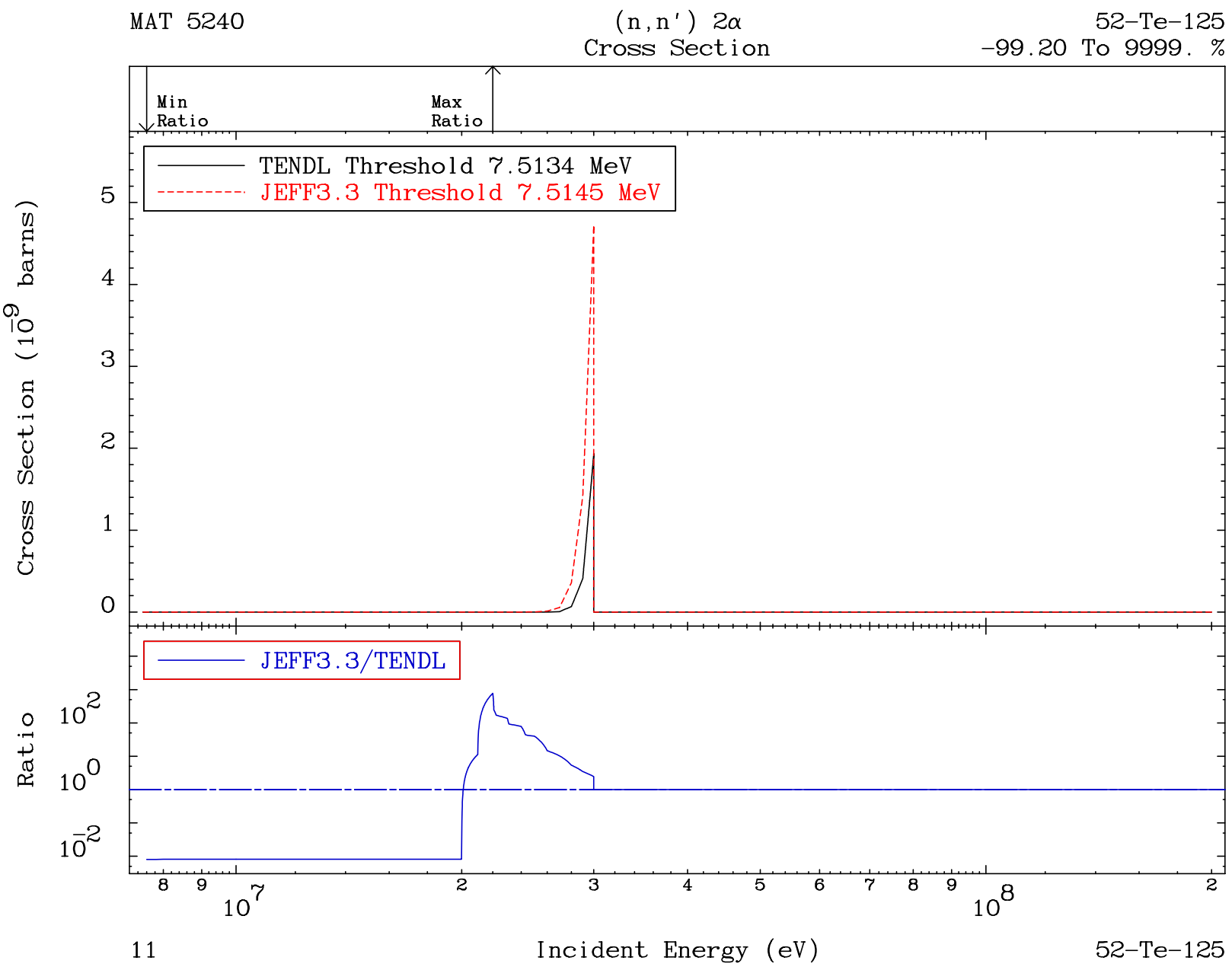

MAT 5240
(n,3n)
Cross Section
52-Te-125
-4.658 To 91.44 %
Max Ratio
Min Ratio
TENDL Threshold 16.123 MeV
JEFF3.3 Threshold 16.123 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
2.0
1.6
1.2
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
52-Te-125

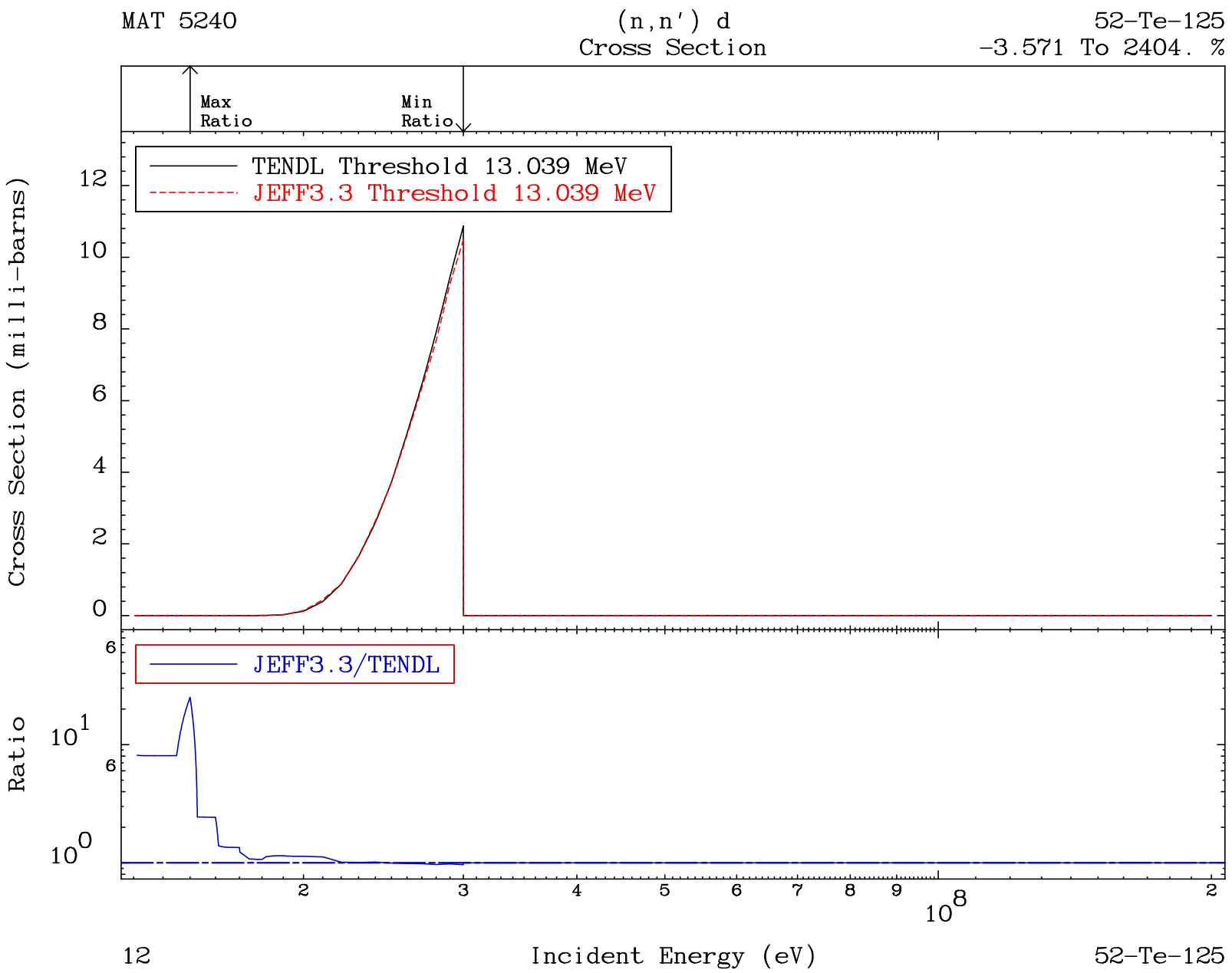

MAT 5240
(n,n') α
Cross Section
52-Te-125
-6.538 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.2683 MeV
JEFF3.3 Threshold 2.2686 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
52-Te-125

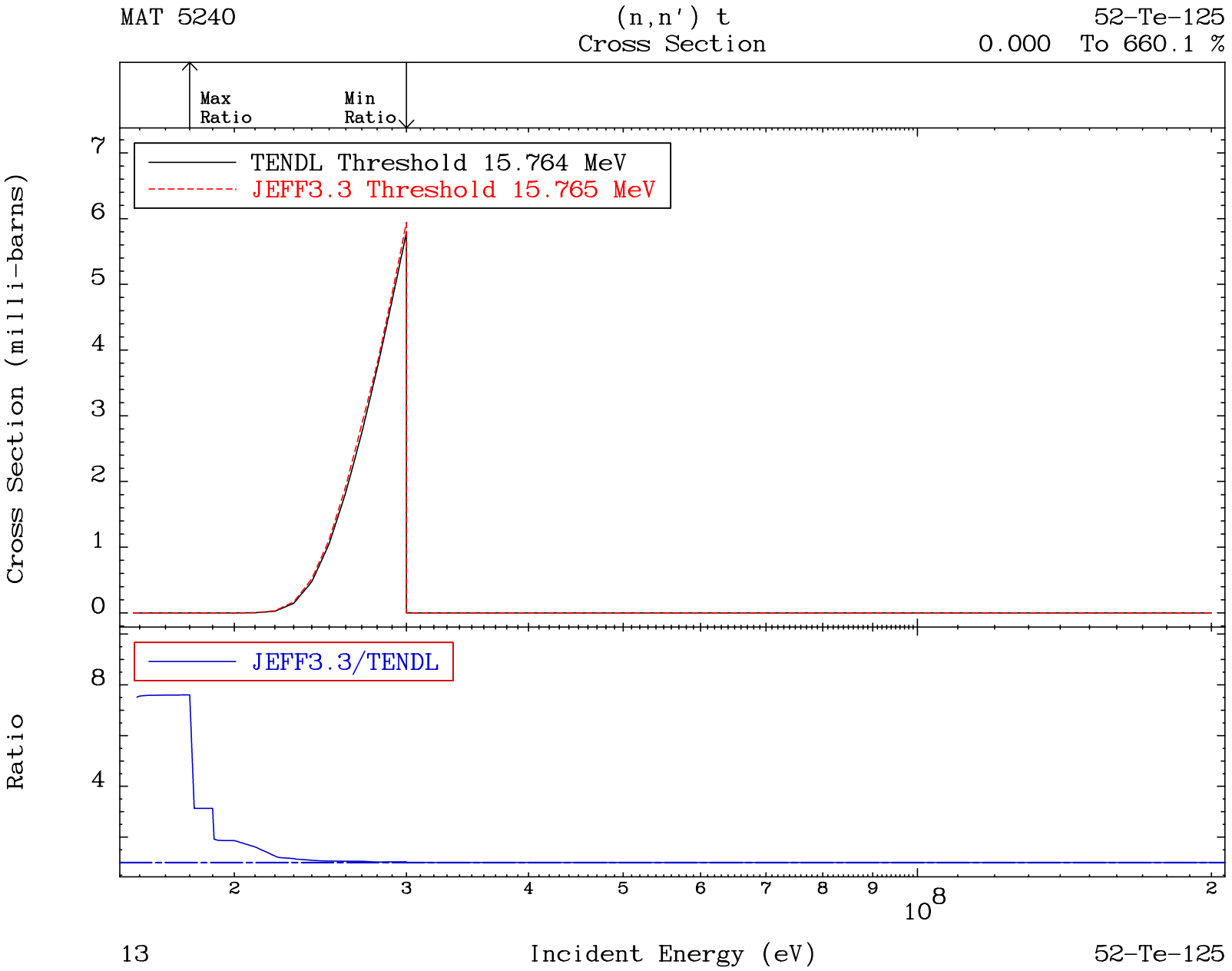

MAT 5240
(n,2n) α
Cross Section
52-Te-125
-1.461 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 8.4883 MeV
JEFF3.3 Threshold 8.4883 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
8
52-Te-125

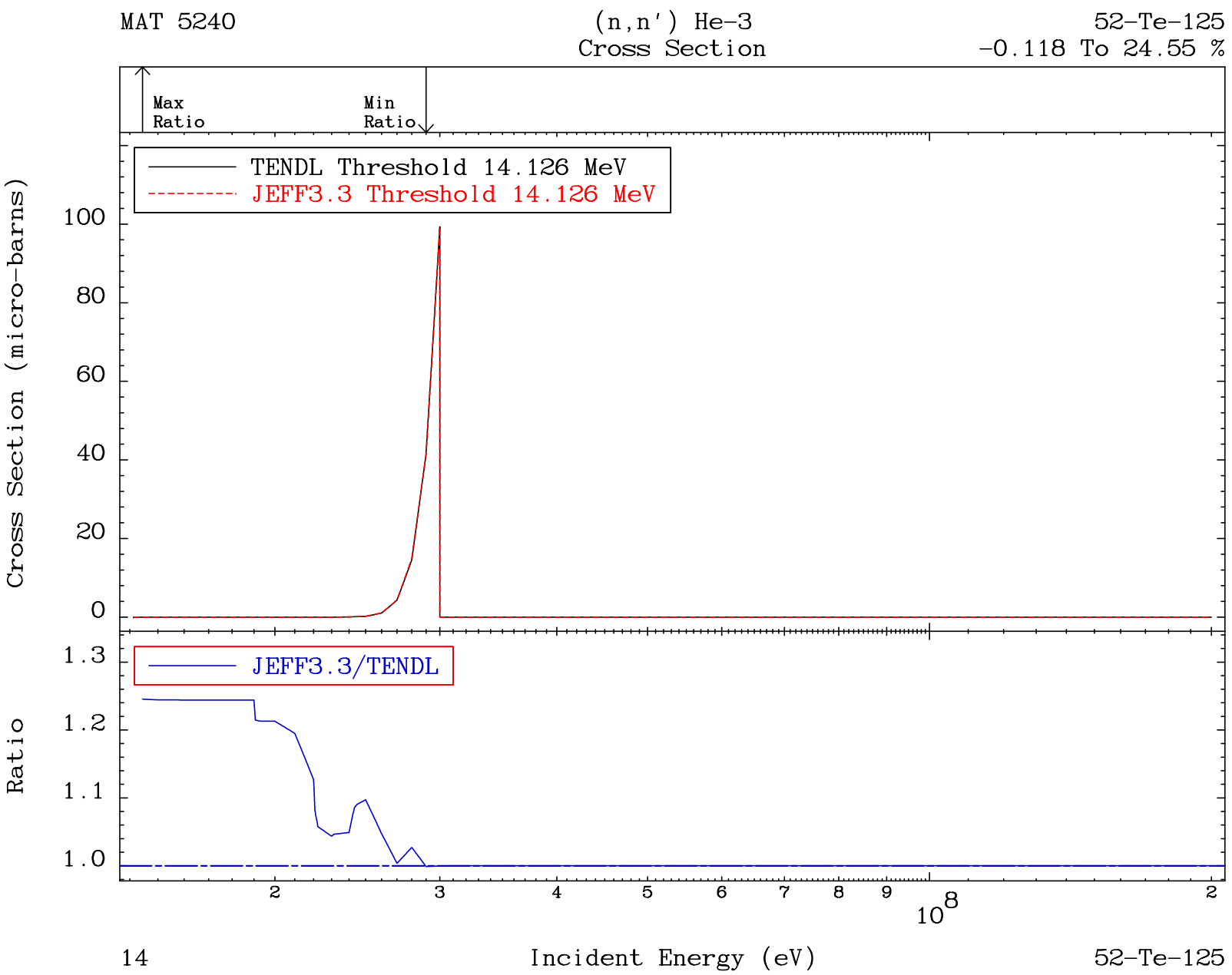

MAT 5240
(n,3n) α
Cross Section
52-Te-125
-96.17 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 17.666 MeV
JEFF3.3 Threshold 17.666 MeV
Cross Section (micro-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
52-Te-125

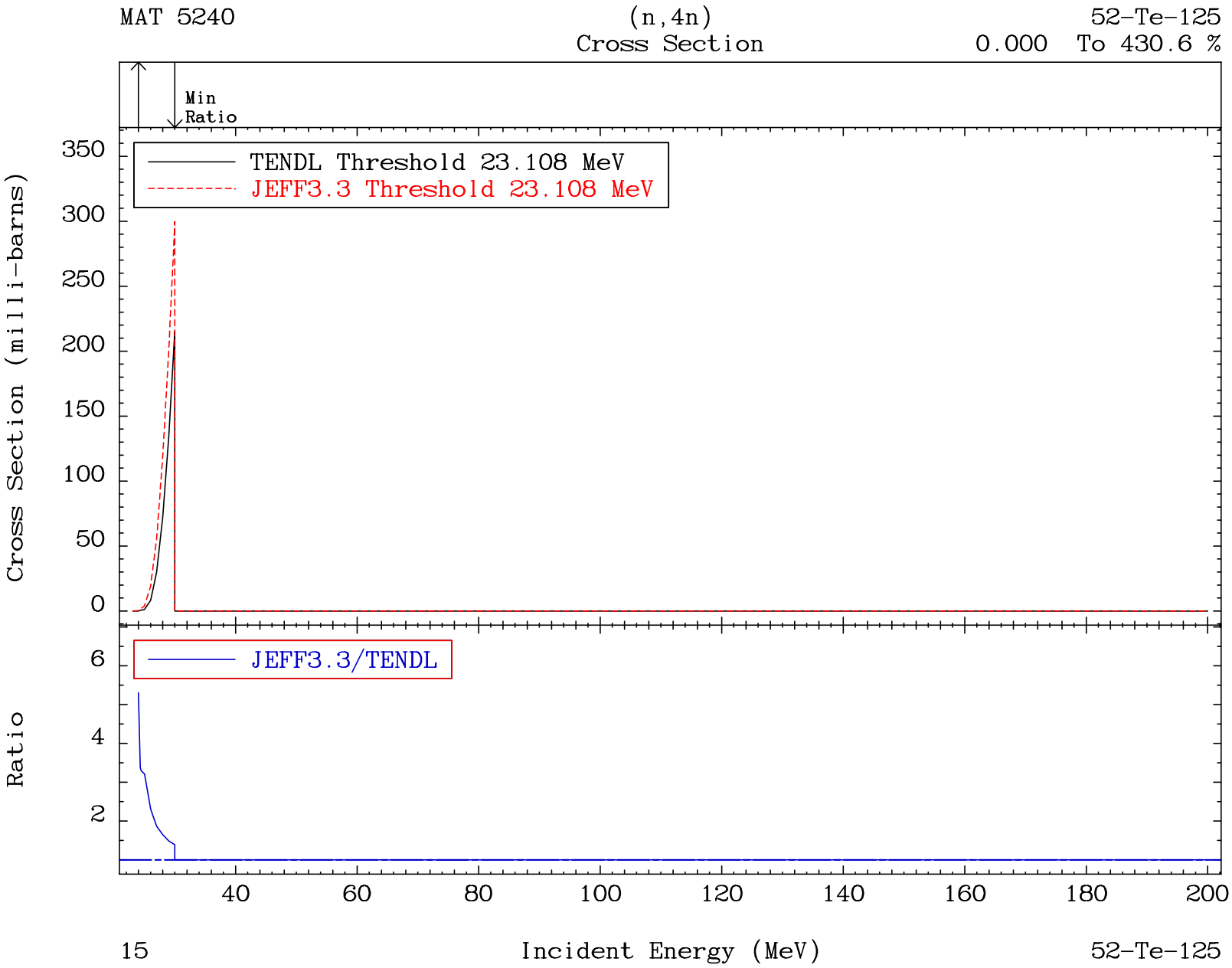

MAT 5240
(n,n') p
Cross Section
52-Te-125
-10.76 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 8.7619 MeV
JEFF3.3 Threshold 8.7619 MeV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^9
10^6
10^3
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
52-Te-125

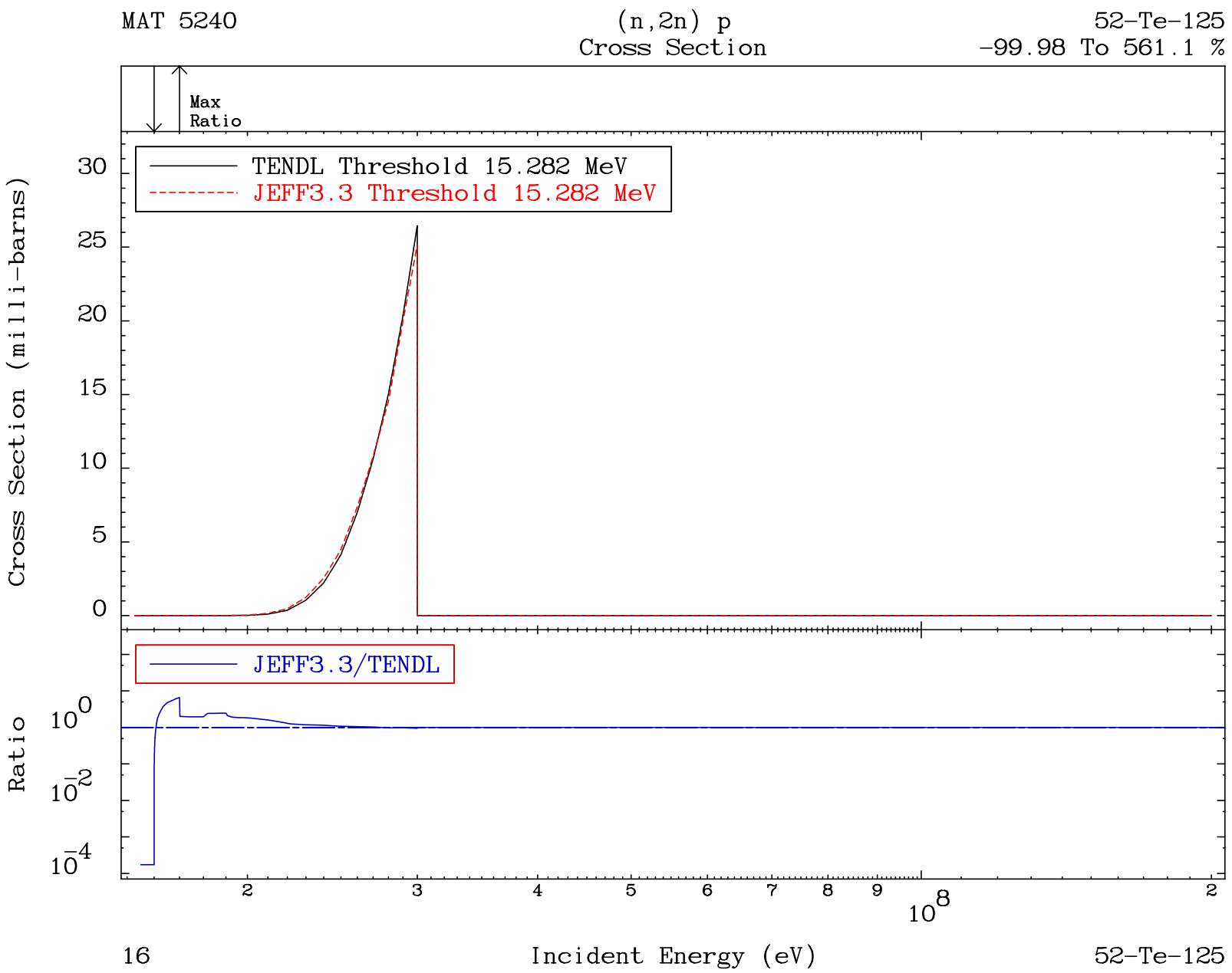

MAT 5240
(n,n') 2α
Cross Section
52-Te-125
-99.20 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.5134 MeV
JEFF3.3 Threshold 7.5145 MeV
Cross Section (10^-9 barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
11
52-Te-125

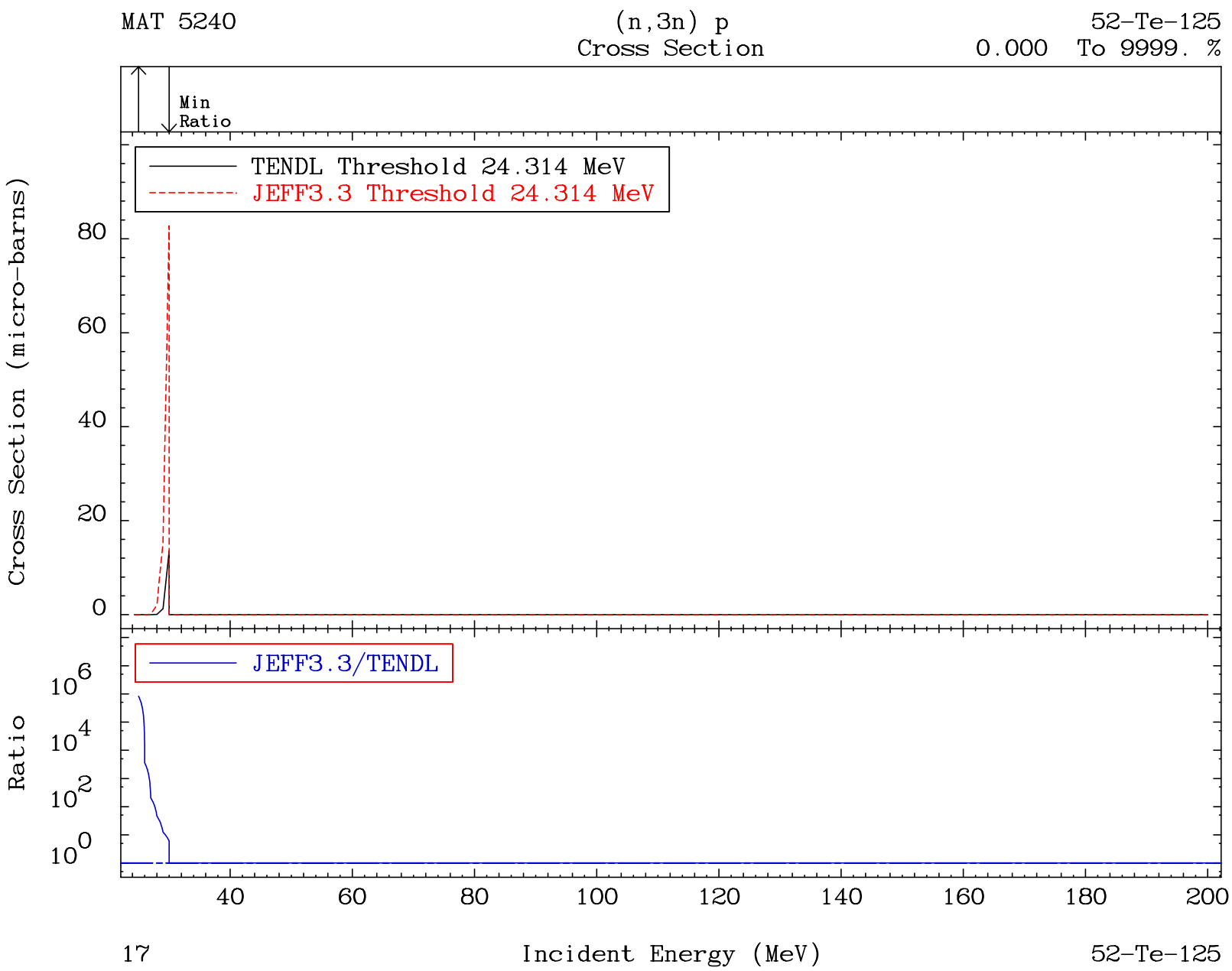

MAT 5240
(n,n') d
Cross Section
52-Te-125
-3.571 To 2404. %
Max Ratio
Min Ratio
TENDL Threshold 13.039 MeV
JEFF3.3 Threshold 13.039 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
12
52-Te-125

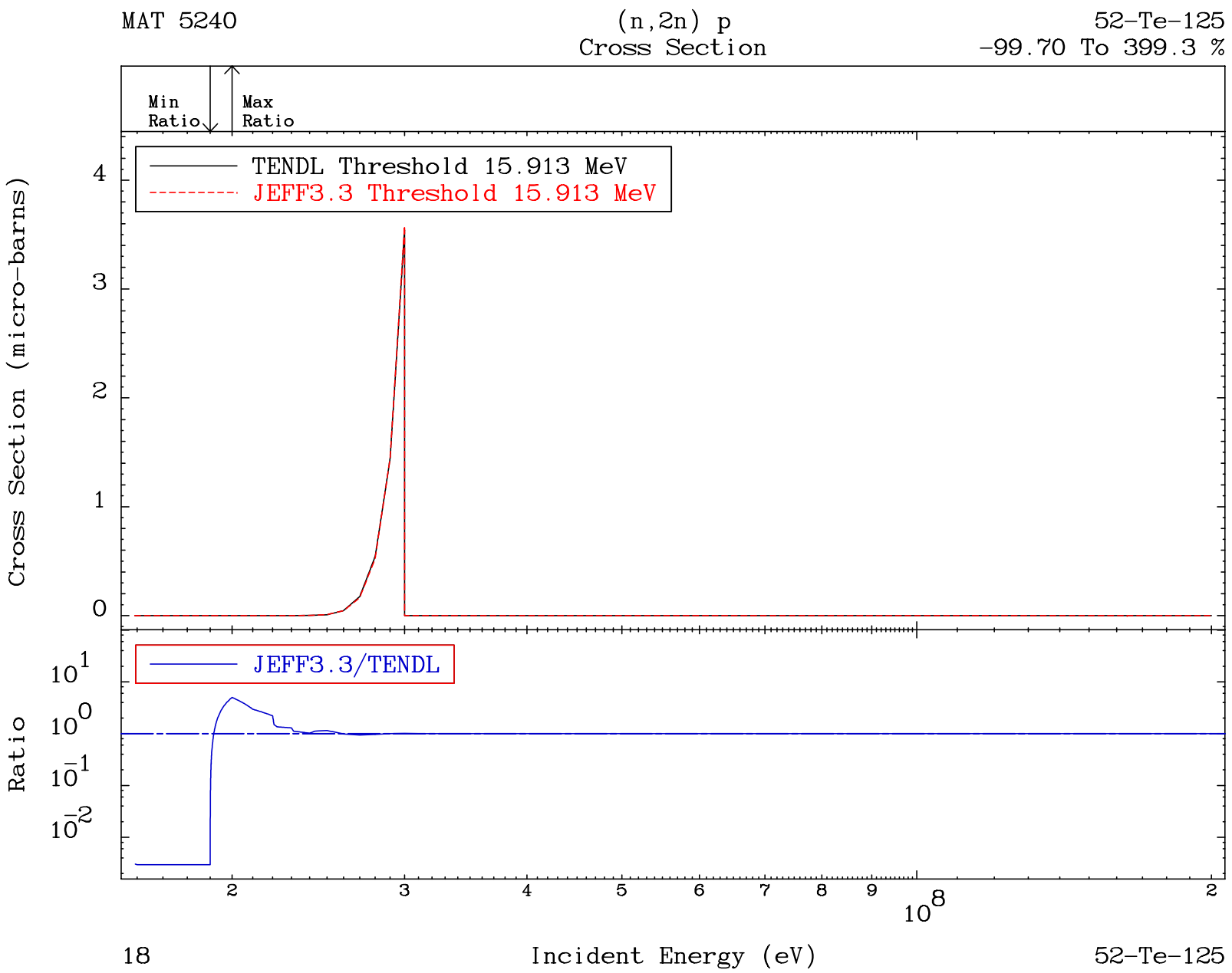

MAT 5240
(n,n') t
Cross Section
52-Te-125
0.000 To 660.1 %
Max Ratio
Min Ratio
TENDL Threshold 15.764 MeV
JEFF3.3 Threshold 15.765 MeV
JEFF3.3/TENDL
Cross Section (milli-barns)
Ratio
Incident Energy (eV)
13
52-Te-125

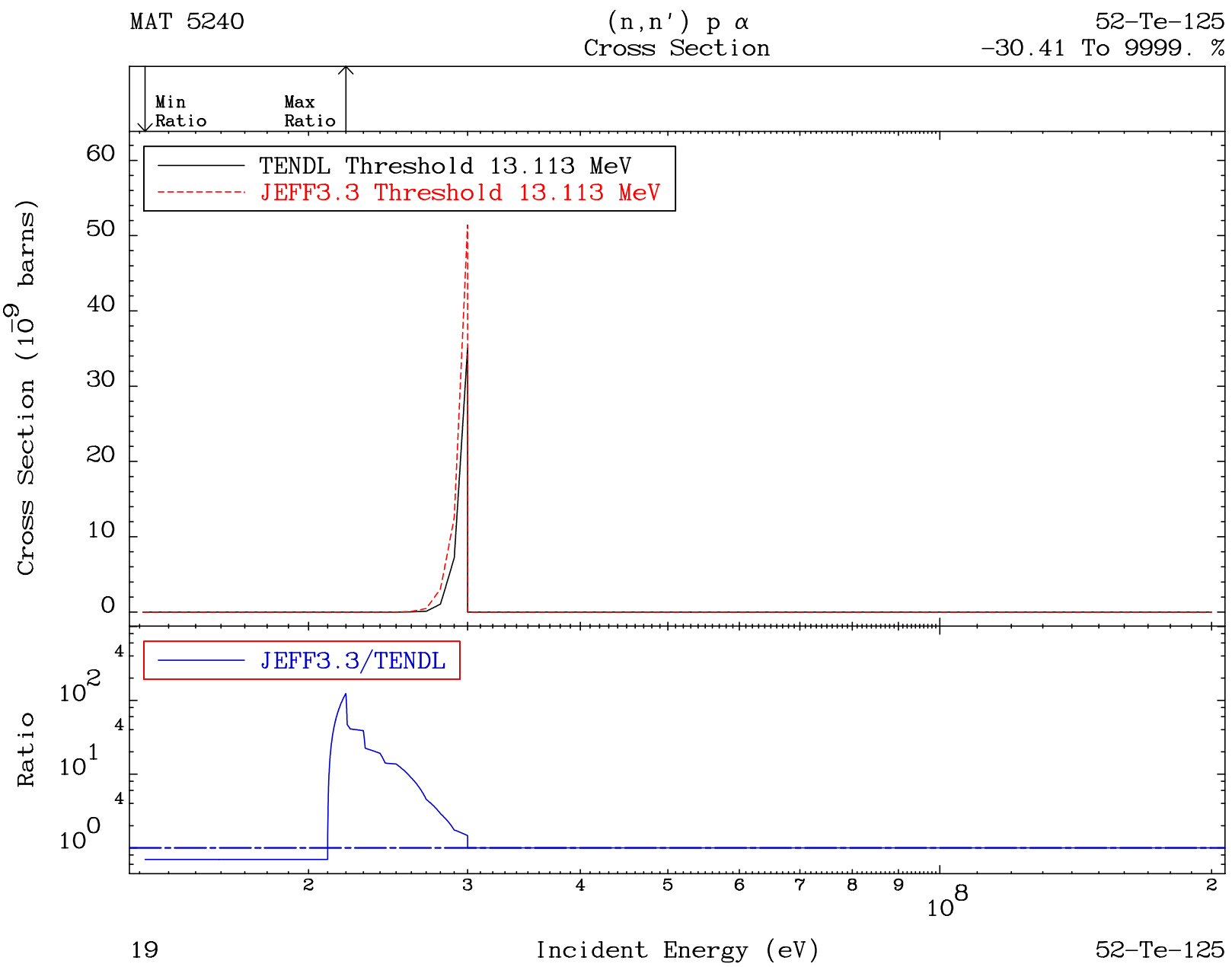

MAT 5240
(n,n') He-3
Cross Section
52-Te-125
-0.118 To 24.55 %
Max Ratio
Min Ratio
TENDL Threshold 14.126 MeV
JEFF3.3 Threshold 14.126 MeV
Cross Section (micro-barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.3
1.2
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
52-Te-125

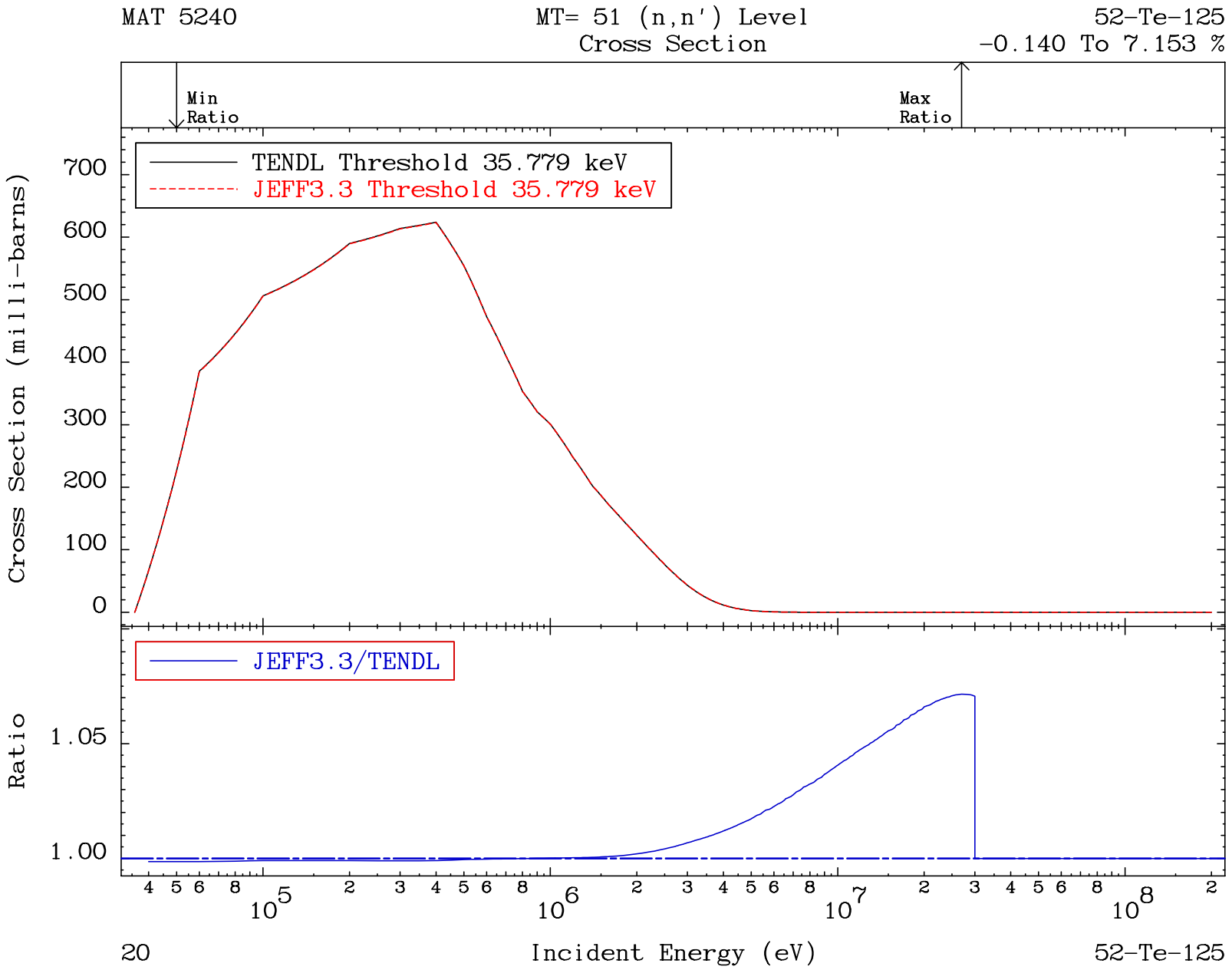

MAT 5240
(n,4n)
Cross Section
52-Te-125
0.000 To 430.6 %
Min
Ratio
TENDL Threshold 23.108 MeV
JEFF3.3 Threshold 23.108 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
6
4
2
40
60
80
100
120
140
160
180
200
15
Incident Energy (MeV)
52-Te-125

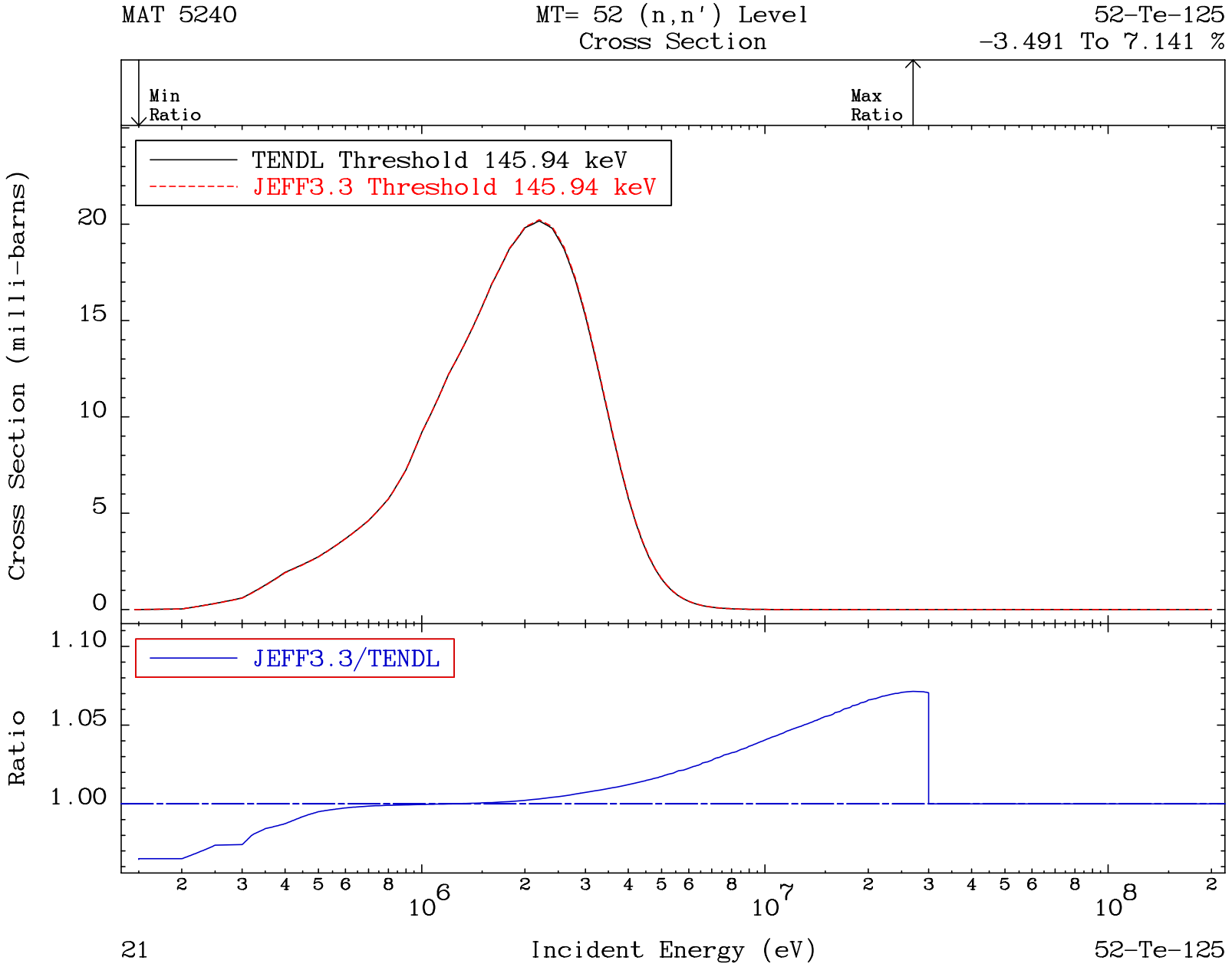

MAT 5240
(n,2n) p
Cross Section
52-Te-125
-99.98 To 561.1 %
Max
Ratio
TENDL Threshold 15.282 MeV
JEFF3.3 Threshold 15.282 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^0
10^-2
10^-4
2
3
4
5
6
7
8
9
10^8
2
16
Incident Energy (eV)
52-Te-125

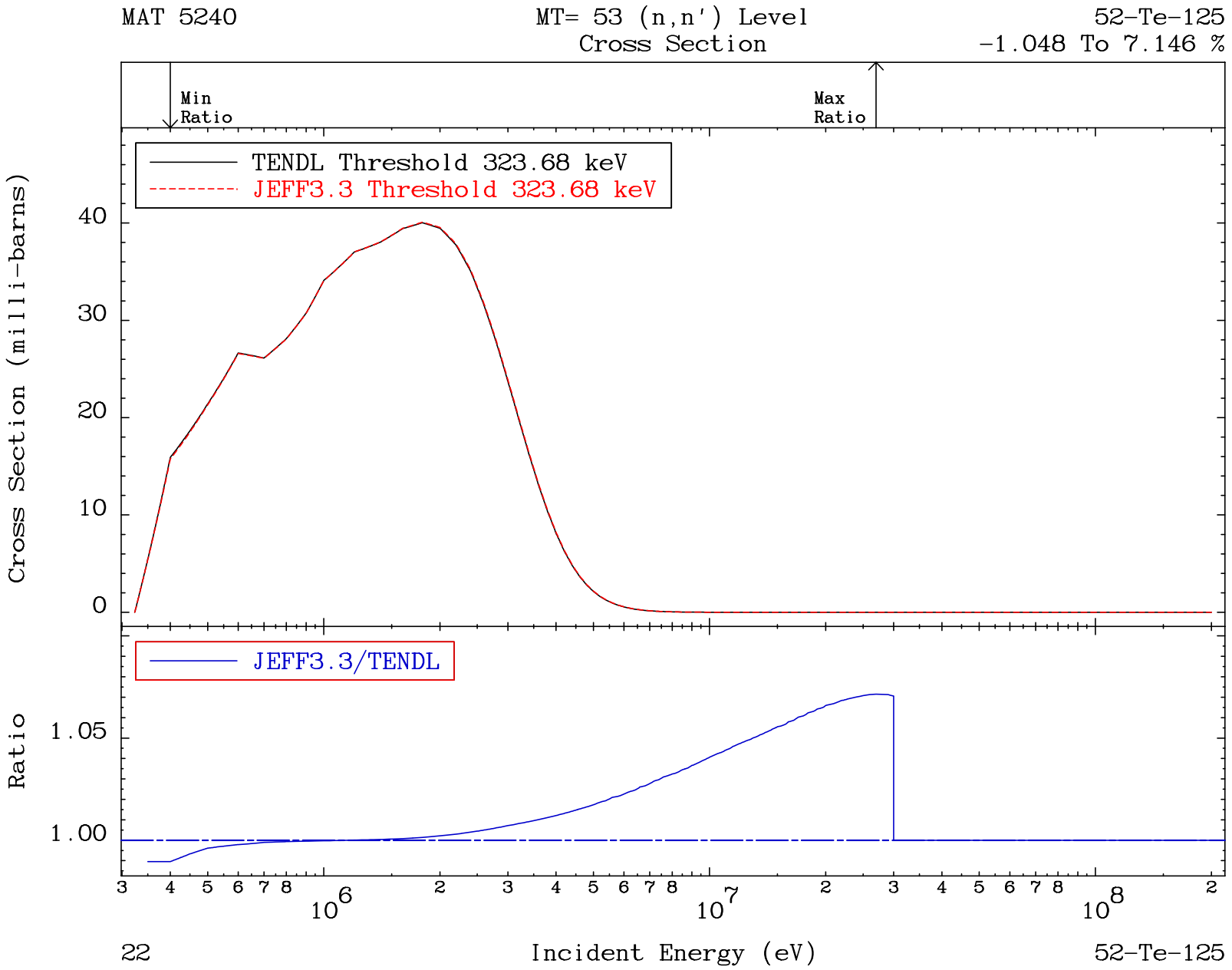

MAT 5240
(n,3n) p
Cross Section
52-Te-125
0.000 To 9999. %
Min
Ratio
TENDL Threshold 24.314 MeV
JEFF3.3 Threshold 24.314 MeV
Cross Section (micro-barns)
0
20
40
60
80
JEFF3.3/TENDL
Ratio
$10^0$
$10^2$
$10^4$
$10^6$
40
60
80
100
120
140
160
180
200
17
Incident Energy (MeV)
52-Te-125

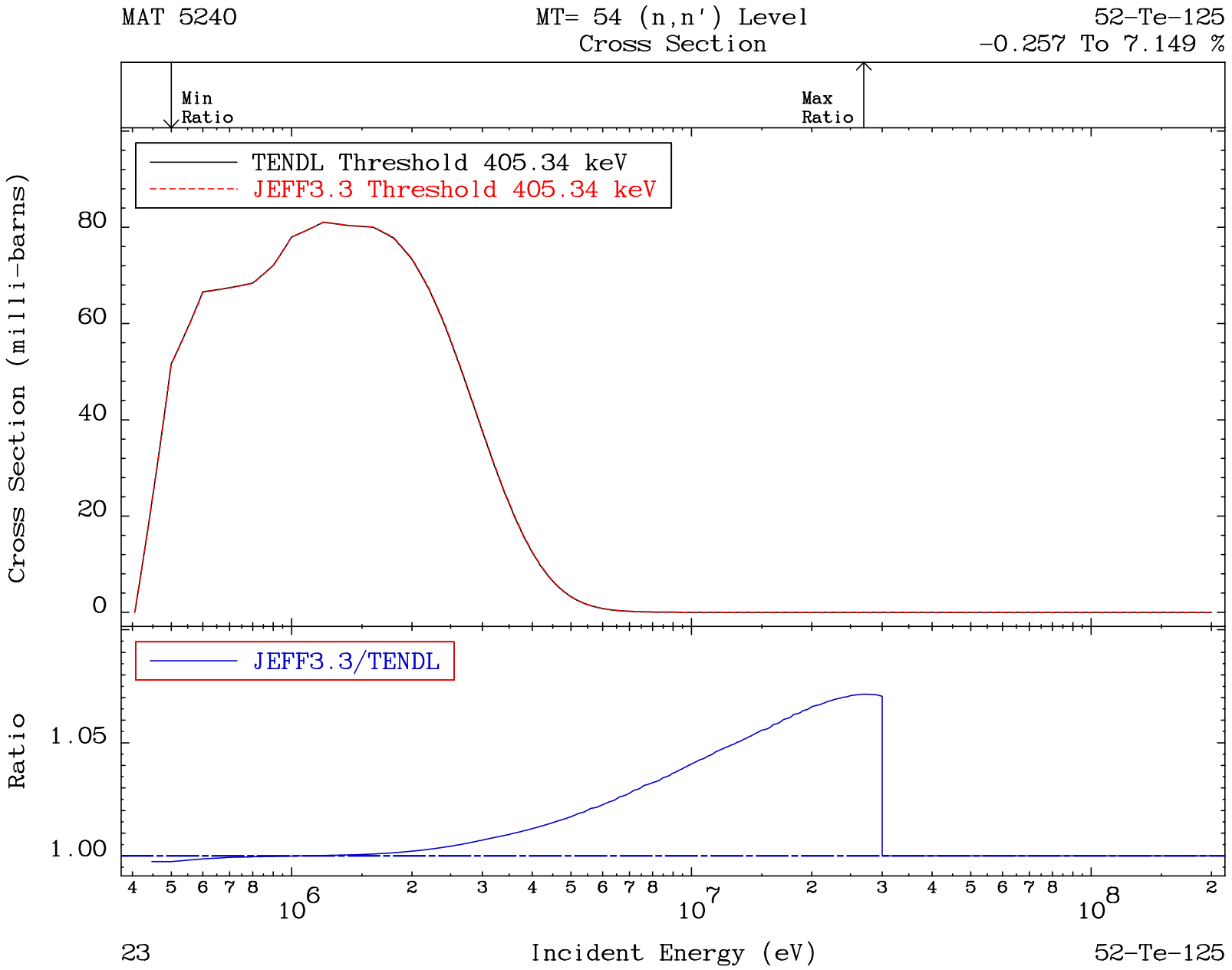

MAT 5240
(n,2n) p
Cross Section
52-Te-125
-99.70 To 399.3 %
Min Ratio
Max Ratio
TENDL Threshold 15.913 MeV
JEFF3.3 Threshold 15.913 MeV
Cross Section (micro-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
18
52-Te-125

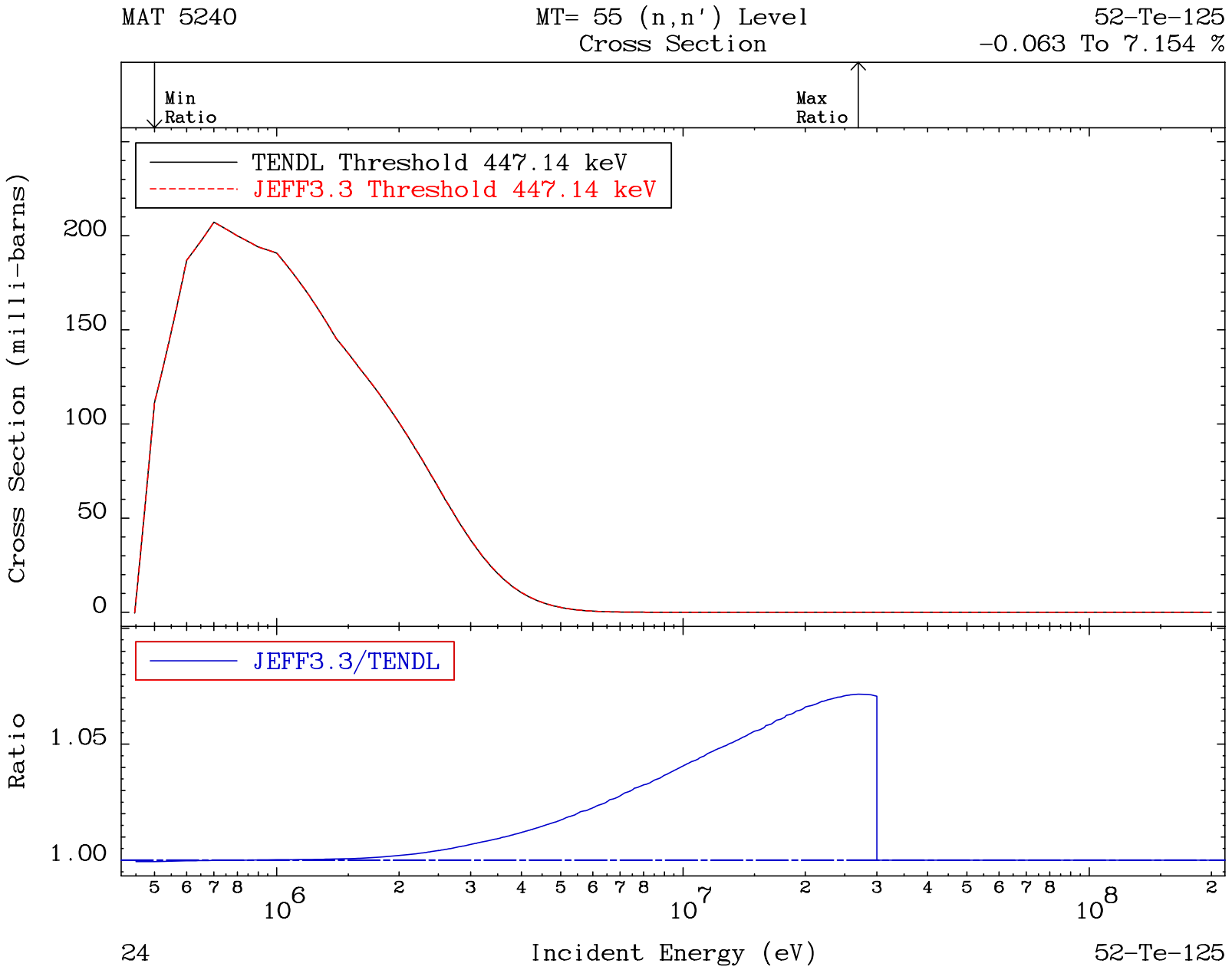

MAT 5240
(n,n') p α
Cross Section
52-Te-125
-30.41 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 13.113 MeV
JEFF3.3 Threshold 13.113 MeV
Cross Section (10^-9 barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
52-Te-125

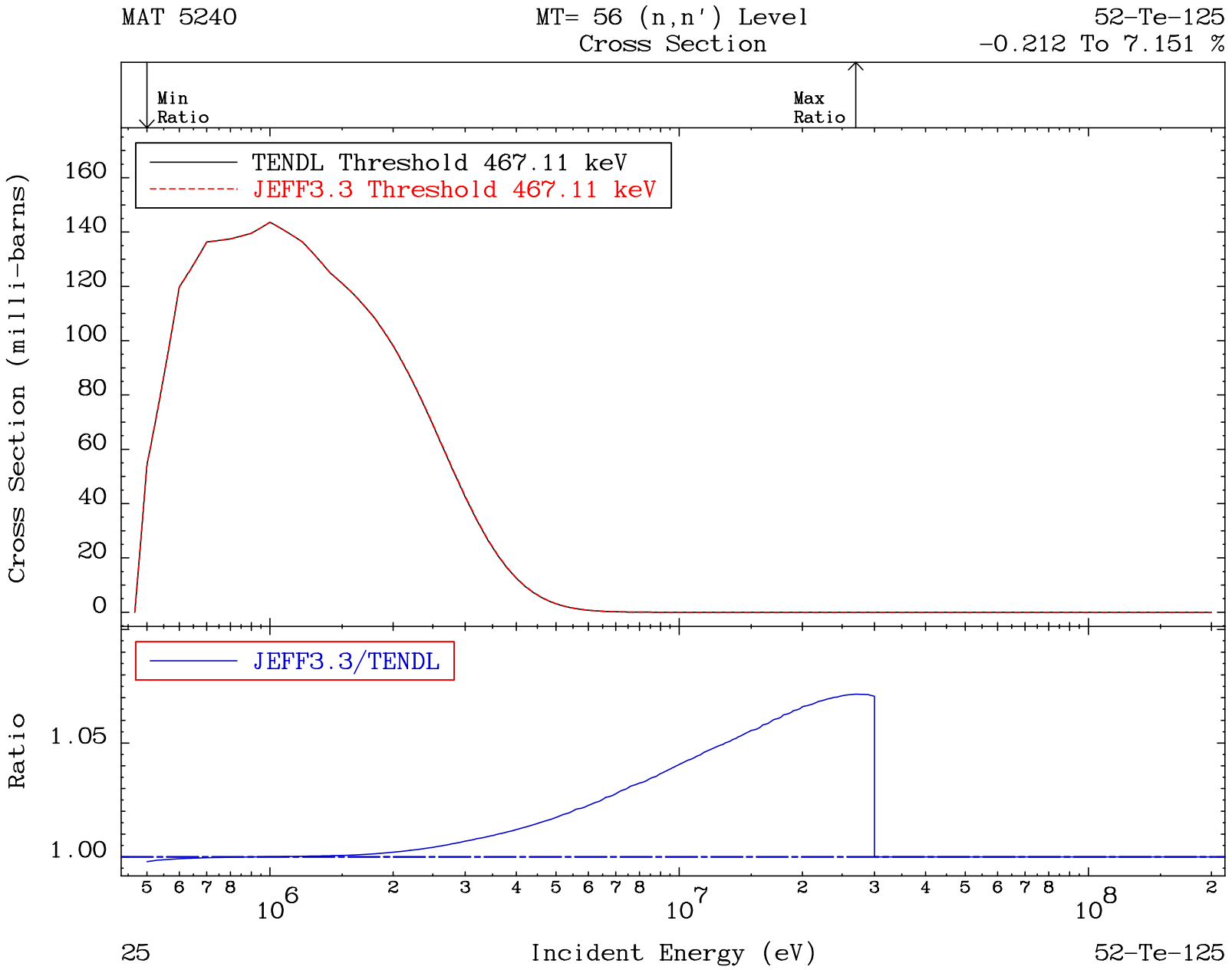

MAT 5240
MT= 51 (n,n') Level
Cross Section
52-Te-125
-0.140 To 7.153 %
Min
Ratio
Max
Ratio
TENDL Threshold 35.779 keV
JEFF3.3 Threshold 35.779 keV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.05
1.00
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
20
Incident Energy (eV)
52-Te-125

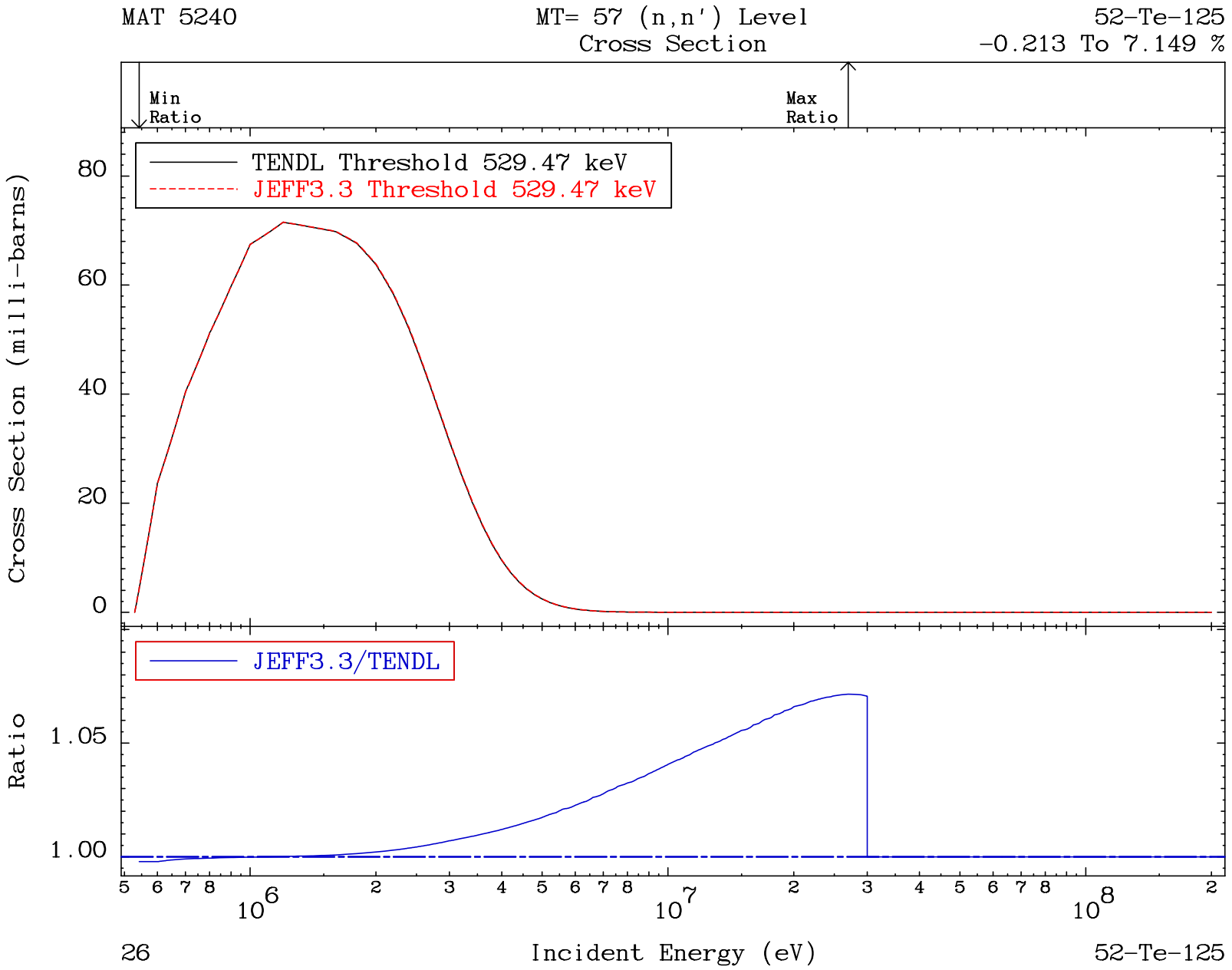

MAT 5240
MT= 52 (n,n') Level
Cross Section
52-Te-125
-3.491 To 7.141 %
Min
Ratio
Max
Ratio
TENDL Threshold 145.94 keV
JEFF3.3 Threshold 145.94 keV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
2
3
4
5
6
8
10^6
10^7
10^8
21
Incident Energy (eV)
52-Te-125

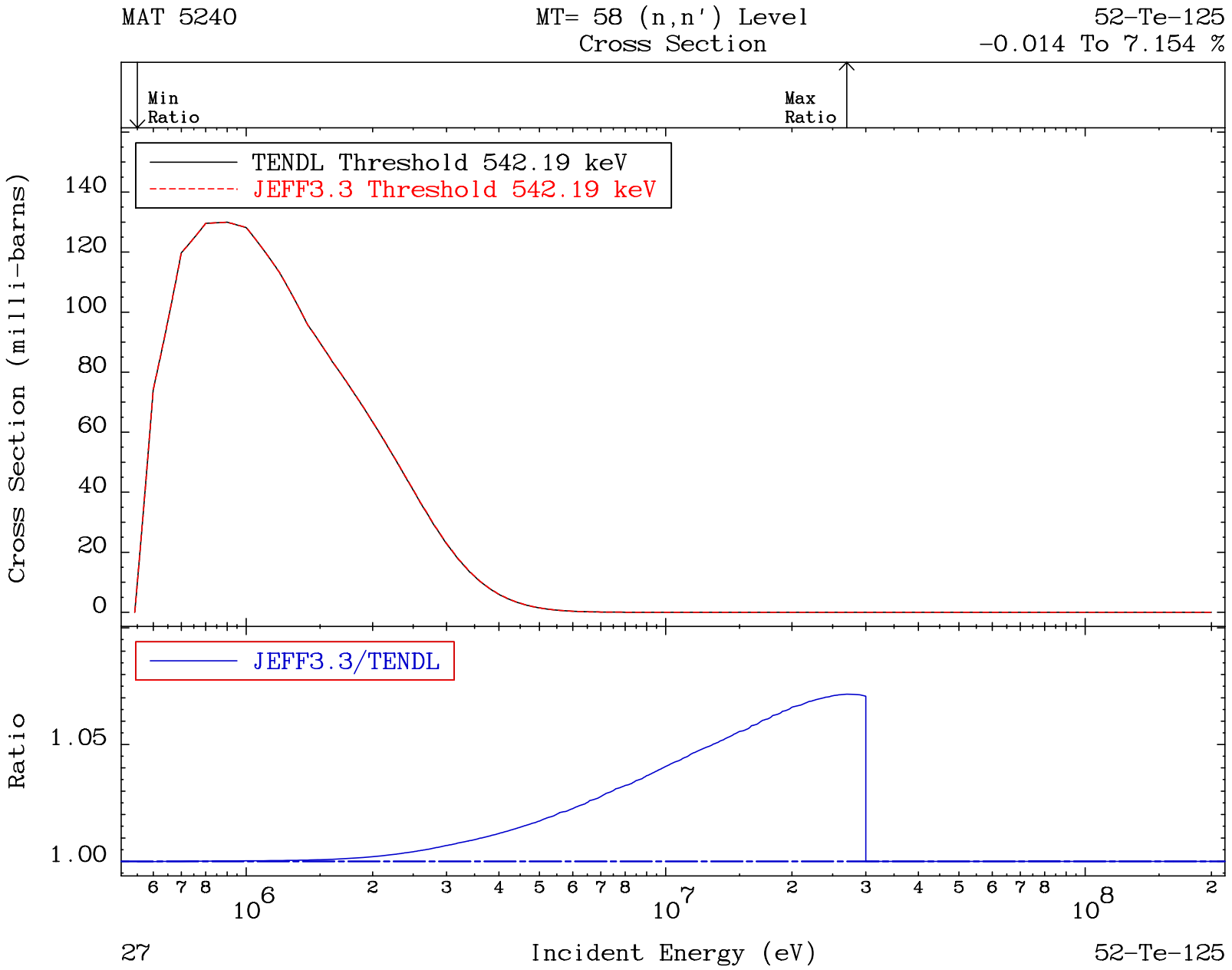

MAT 5240
MT= 53 (n,n') Level
Cross Section
52-Te-125
-1.048 To 7.146 %
Min
Ratio
Max
Ratio
TENDL Threshold 323.68 keV
JEFF3.3 Threshold 323.68 keV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.05
1.00
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
52-Te-125

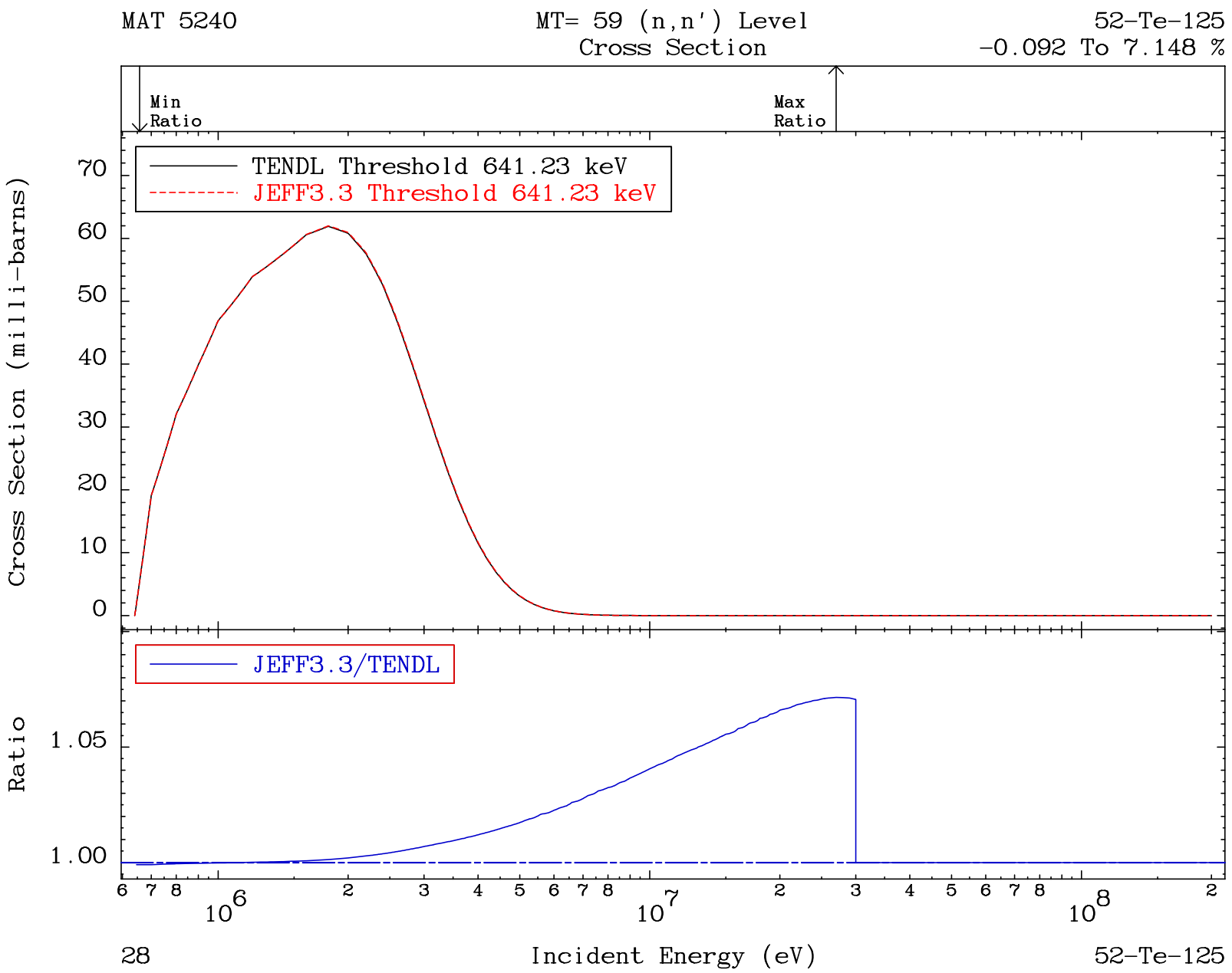

MAT 5240
MT= 54 (n,n') Level
Cross Section
52-Te-125
-0.257 To 7.149 %
Min
Ratio
Max
Ratio
TENDL Threshold 405.34 keV
JEFF3.3 Threshold 405.34 keV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.05
1.00
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
52-Te-125

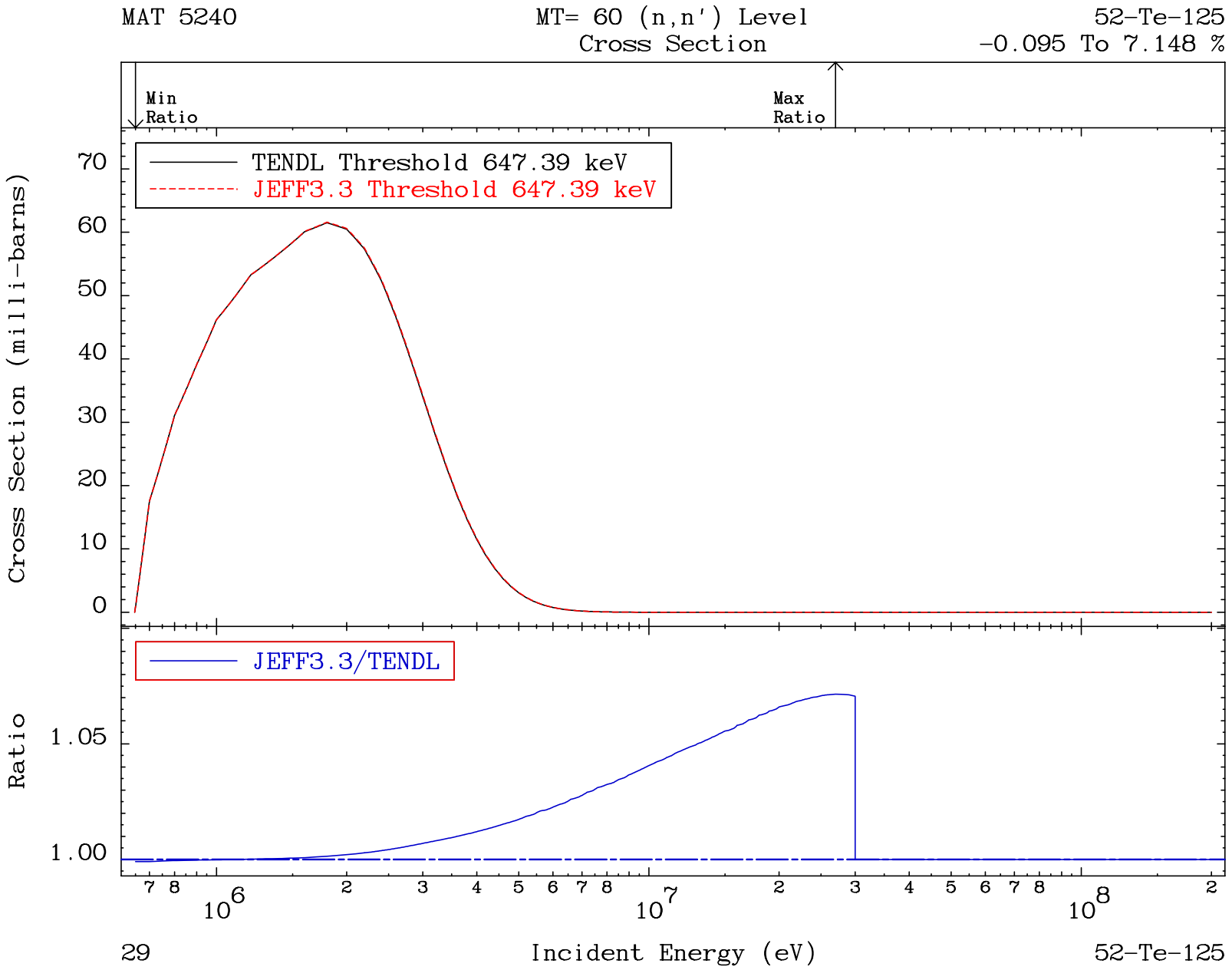

MAT 5240
MT= 55 (n,n') Level
Cross Section
52-Te-125
-0.063 To 7.154 %
Min
Ratio
Max
Ratio
TENDL Threshold 447.14 keV
JEFF3.3 Threshold 447.14 keV
Cross Section (milli-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.05
1.00
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
52-Te-125

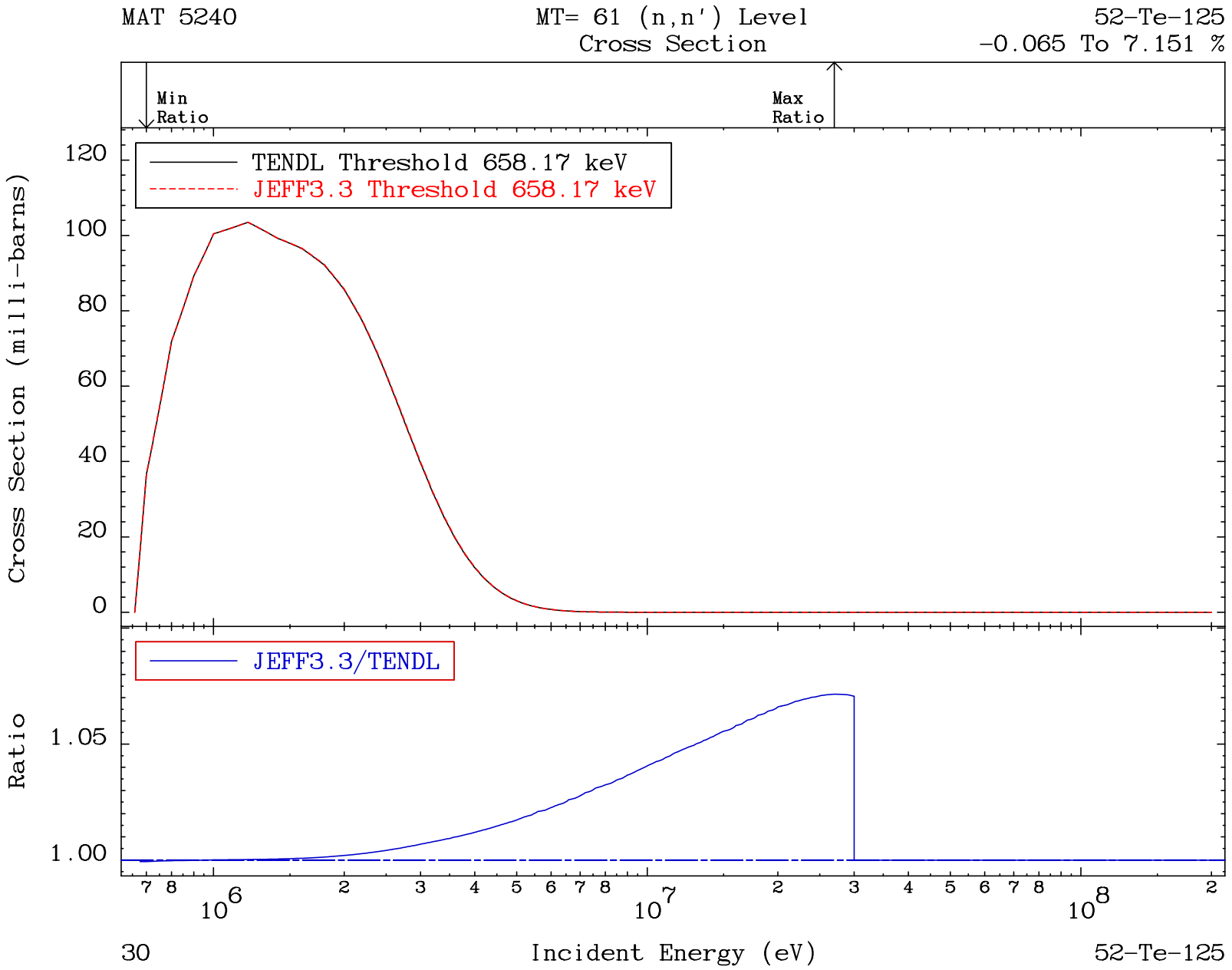

MAT 5240
MT= 56 (n,n') Level
Cross Section
52-Te-125
-0.212 To 7.151 %
Min
Ratio
Max
Ratio
TENDL Threshold 467.11 keV
JEFF3.3 Threshold 467.11 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.05
1.00
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
52-Te-125

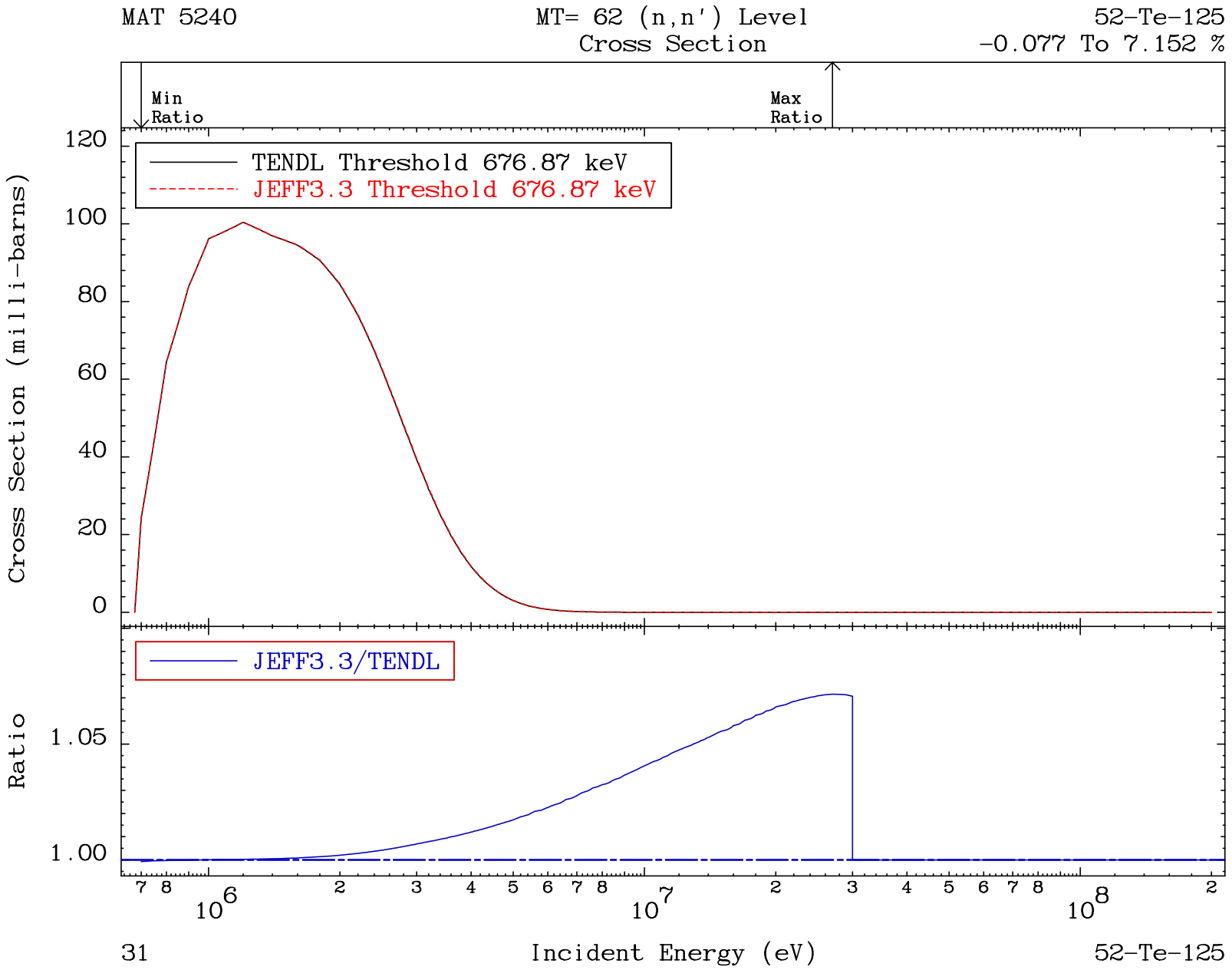

MAT 5240
MT= 57 (n,n') Level
Cross Section
52-Te-125
-0.213 To 7.149 %
Min
Ratio
Max
Ratio
TENDL Threshold 529.47 keV
JEFF3.3 Threshold 529.47 keV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.05
1.00
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
52-Te-125

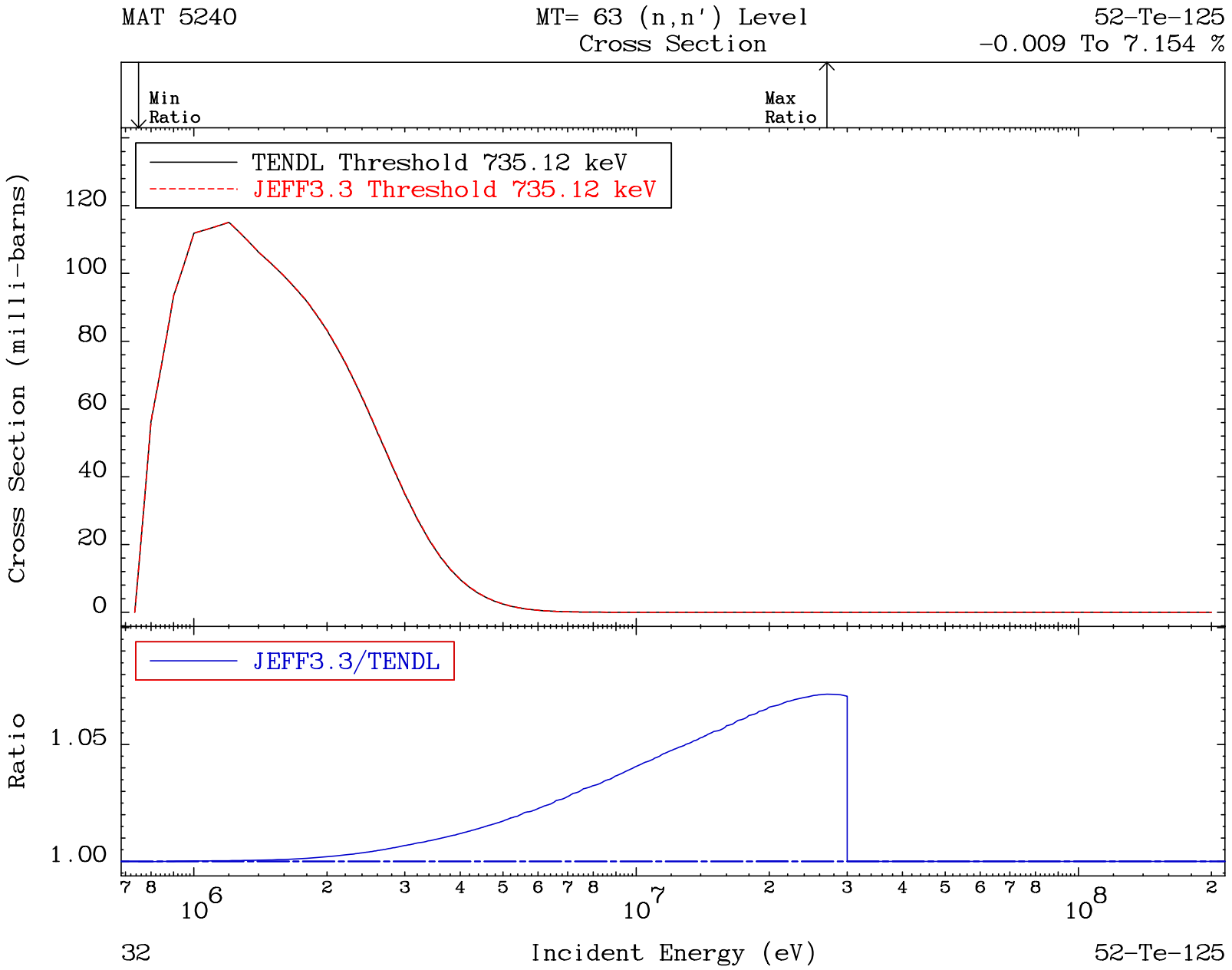

MAT 5240
MT= 58 (n,n') Level
Cross Section
52-Te-125
-0.014 To 7.154 %
Min
Ratio
Max
Ratio
TENDL Threshold 542.19 keV
JEFF3.3 Threshold 542.19 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.05
1.00
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
52-Te-125

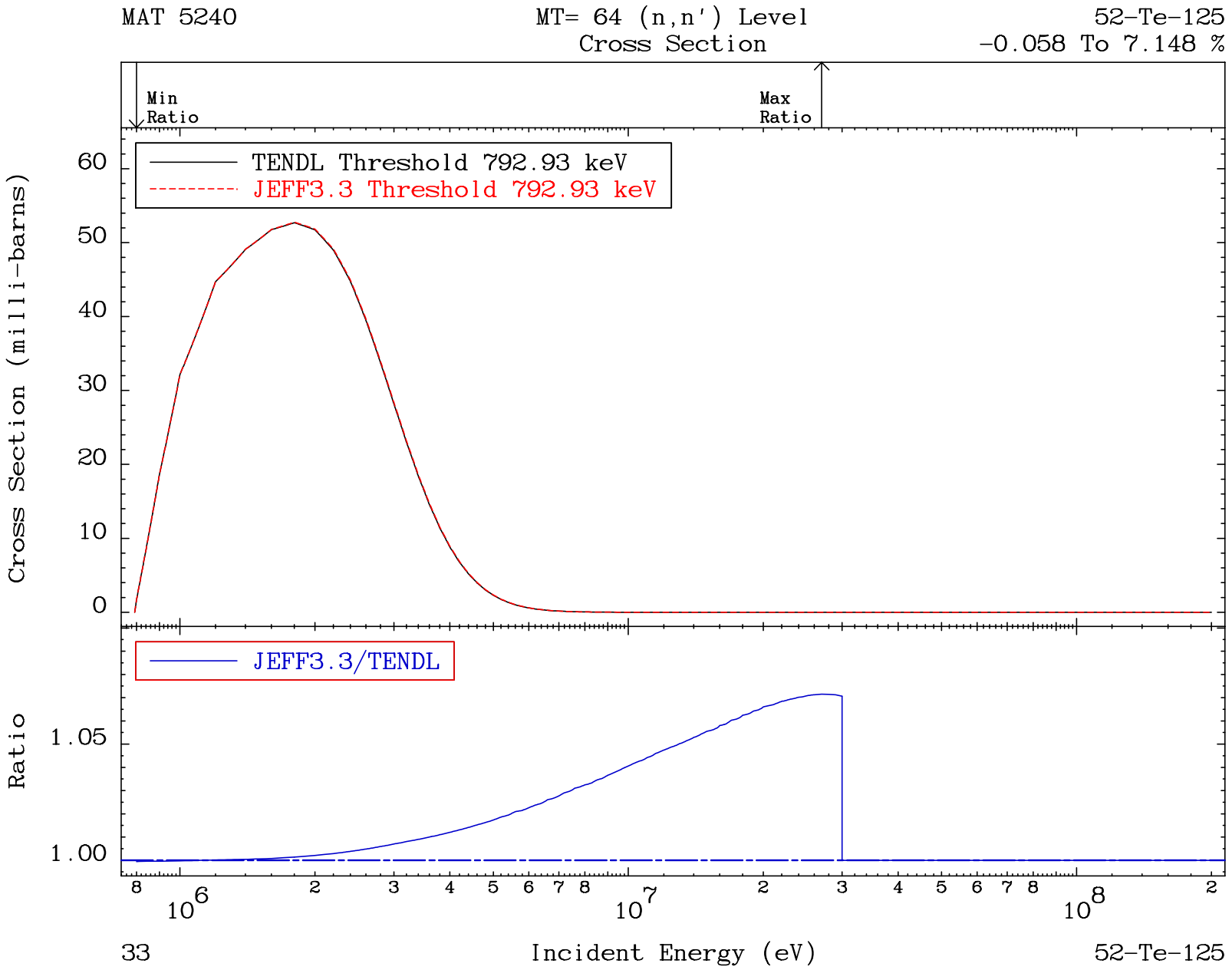

MAT 5240
MT= 59 (n,n') Level
Cross Section
52-Te-125
-0.092 To 7.148 %
Min
Ratio
Max
Ratio
TENDL Threshold 641.23 keV
JEFF3.3 Threshold 641.23 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.05
1.00
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
52-Te-125

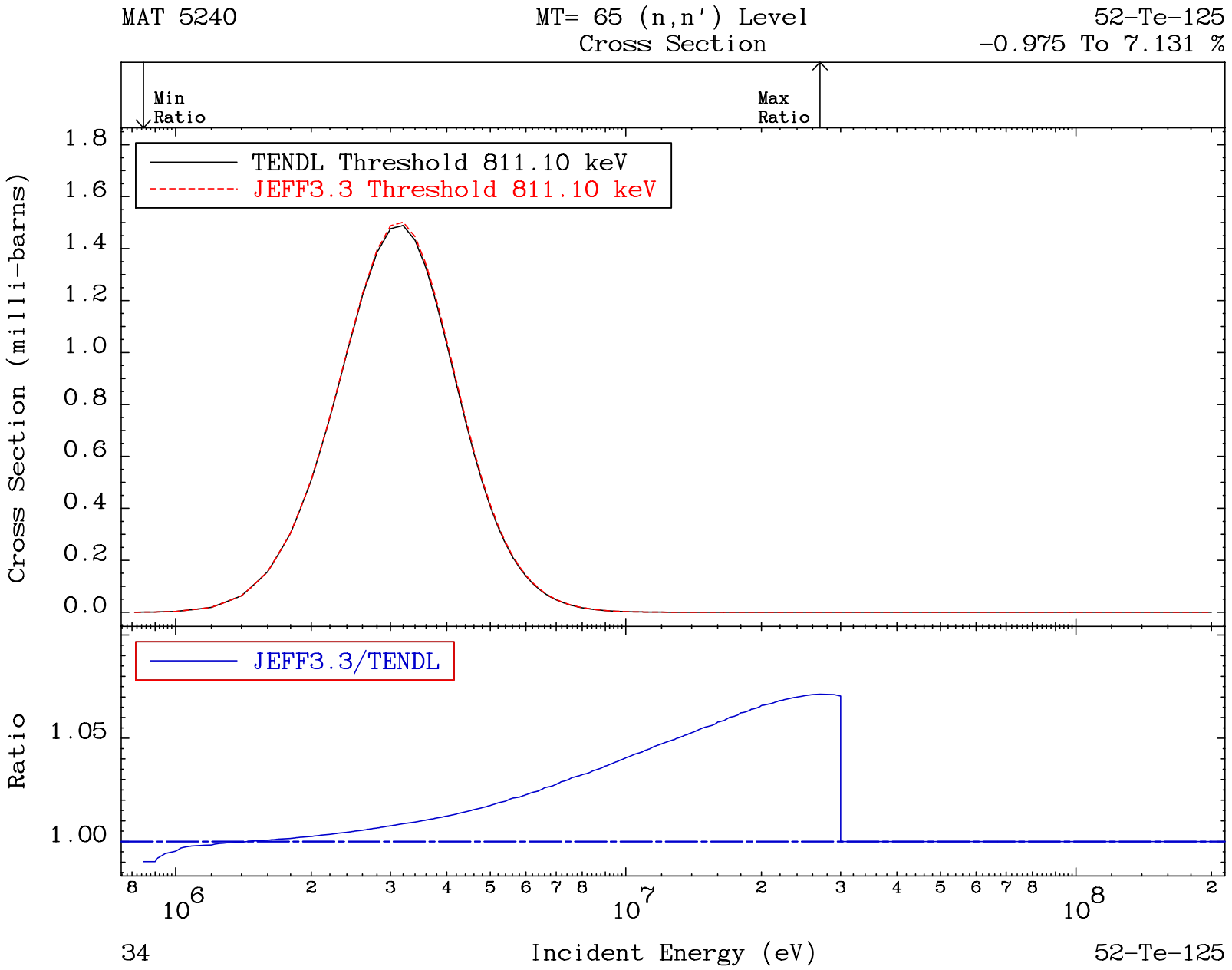

MAT 5240
MT= 60 (n,n') Level
Cross Section
52-Te-125
-0.095 To 7.148 %
Min
Ratio
Max
Ratio
TENDL Threshold 647.39 keV
JEFF3.3 Threshold 647.39 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.05
1.00
7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
52-Te-125

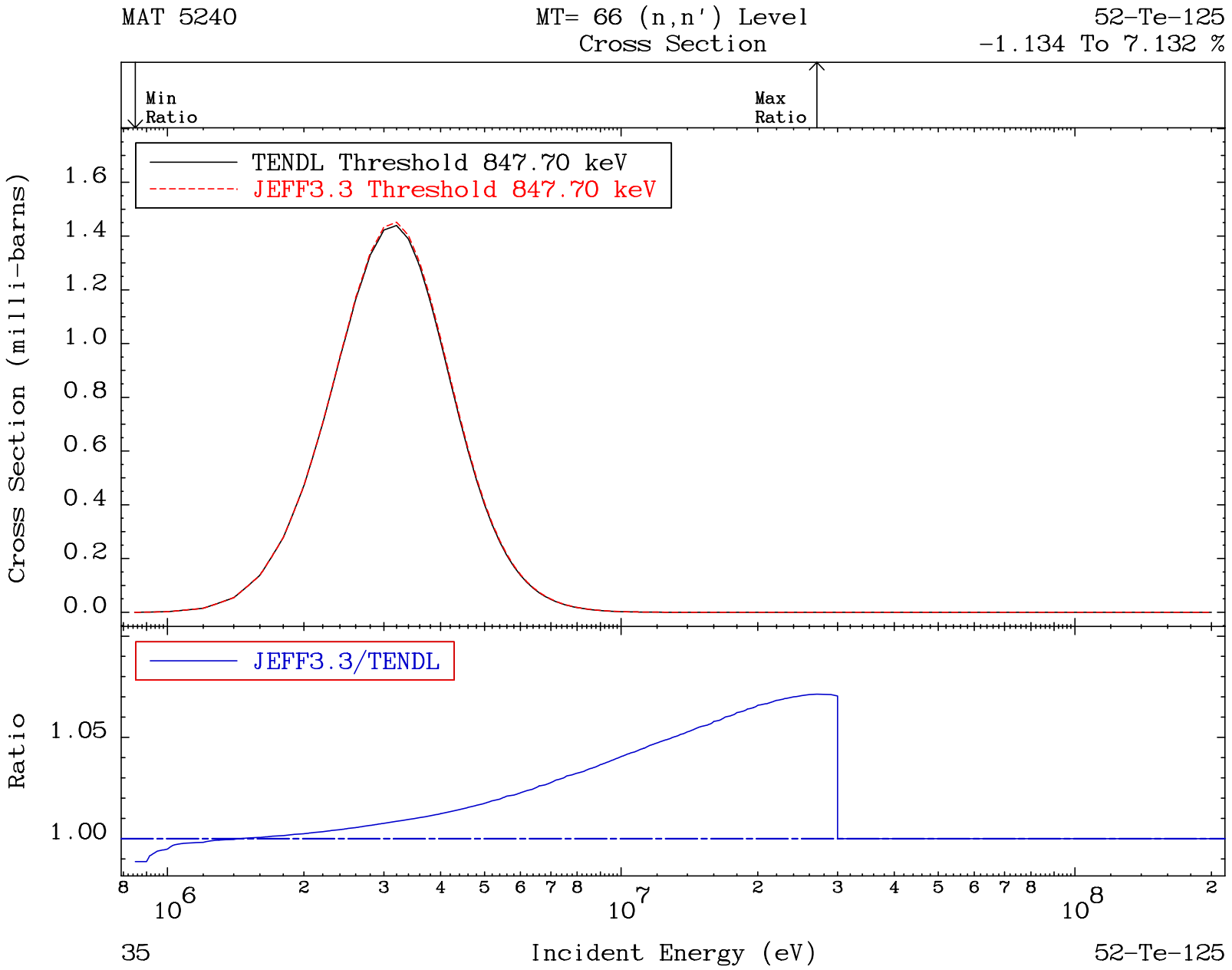

MAT 5240
MT= 61 (n,n') Level
Cross Section
52-Te-125
-0.065 To 7.151 %
Min
Ratio
Max
Ratio
TENDL Threshold 658.17 keV
JEFF3.3 Threshold 658.17 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.05
1.00
7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
30
Incident Energy (eV)
52-Te-125

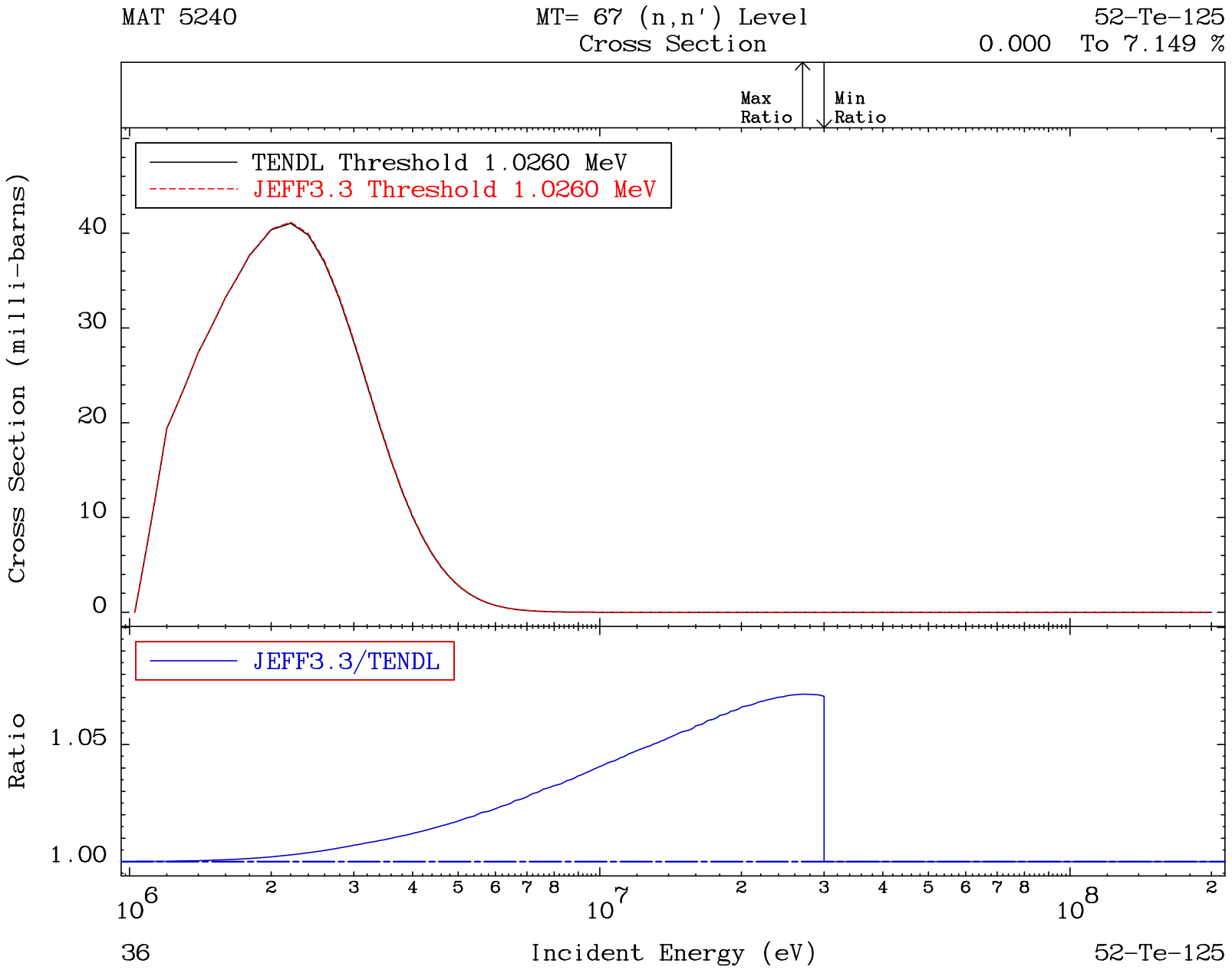

MAT 5240
MT= 62 (n,n') Level Cross Section
52-Te-125
-0.077 To 7.152 %
Min Ratio
Max Ratio
TENDL Threshold 676.87 keV
JEFF3.3 Threshold 676.87 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.05
1.00
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
52-Te-125

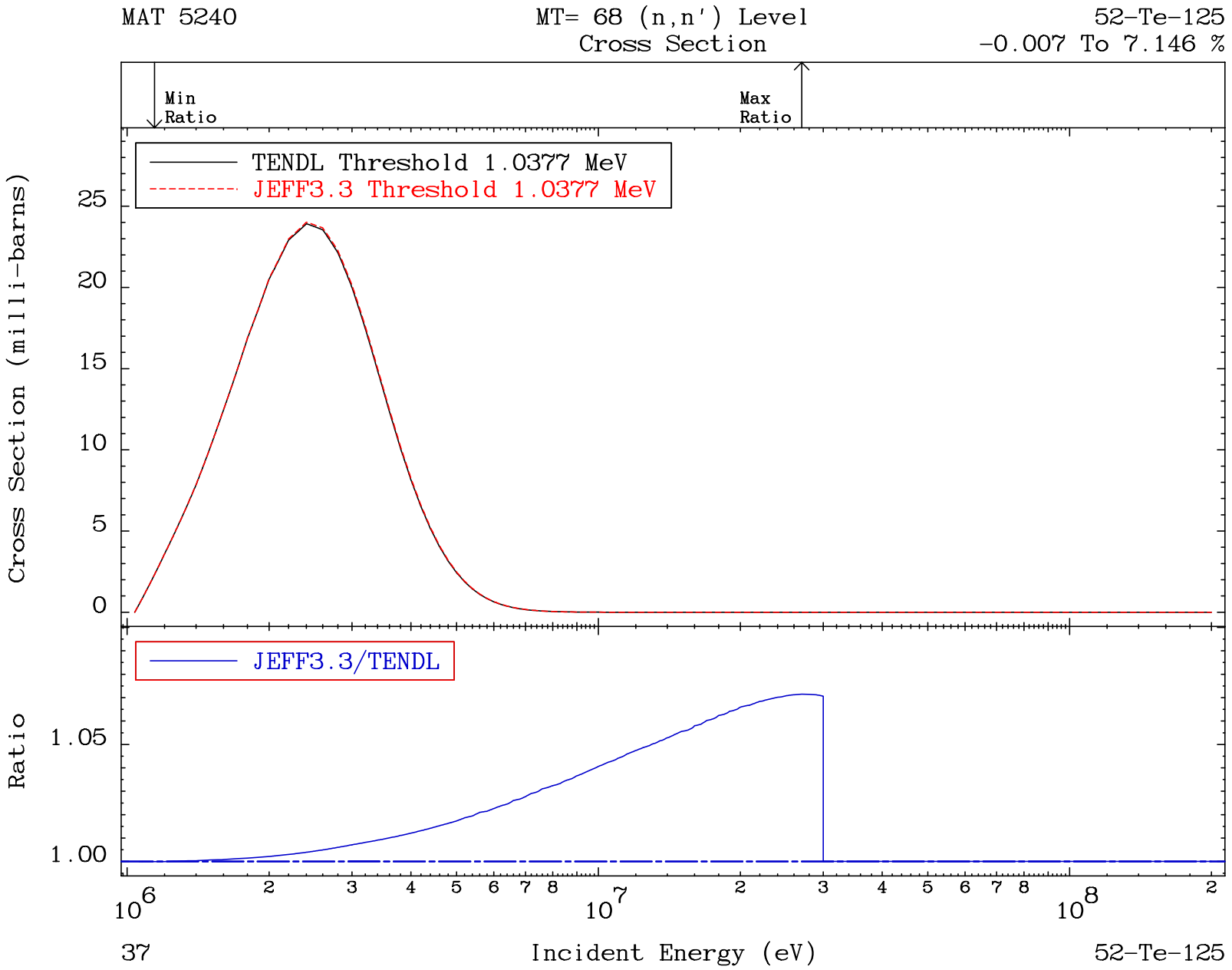

MAT 5240
MT= 63 (n,n') Level
Cross Section
52-Te-125
-0.009 To 7.154 %
Min
Ratio
Max
Ratio
TENDL Threshold 735.12 keV
JEFF3.3 Threshold 735.12 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.05
1.00
7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
32
Incident Energy (eV)
52-Te-125

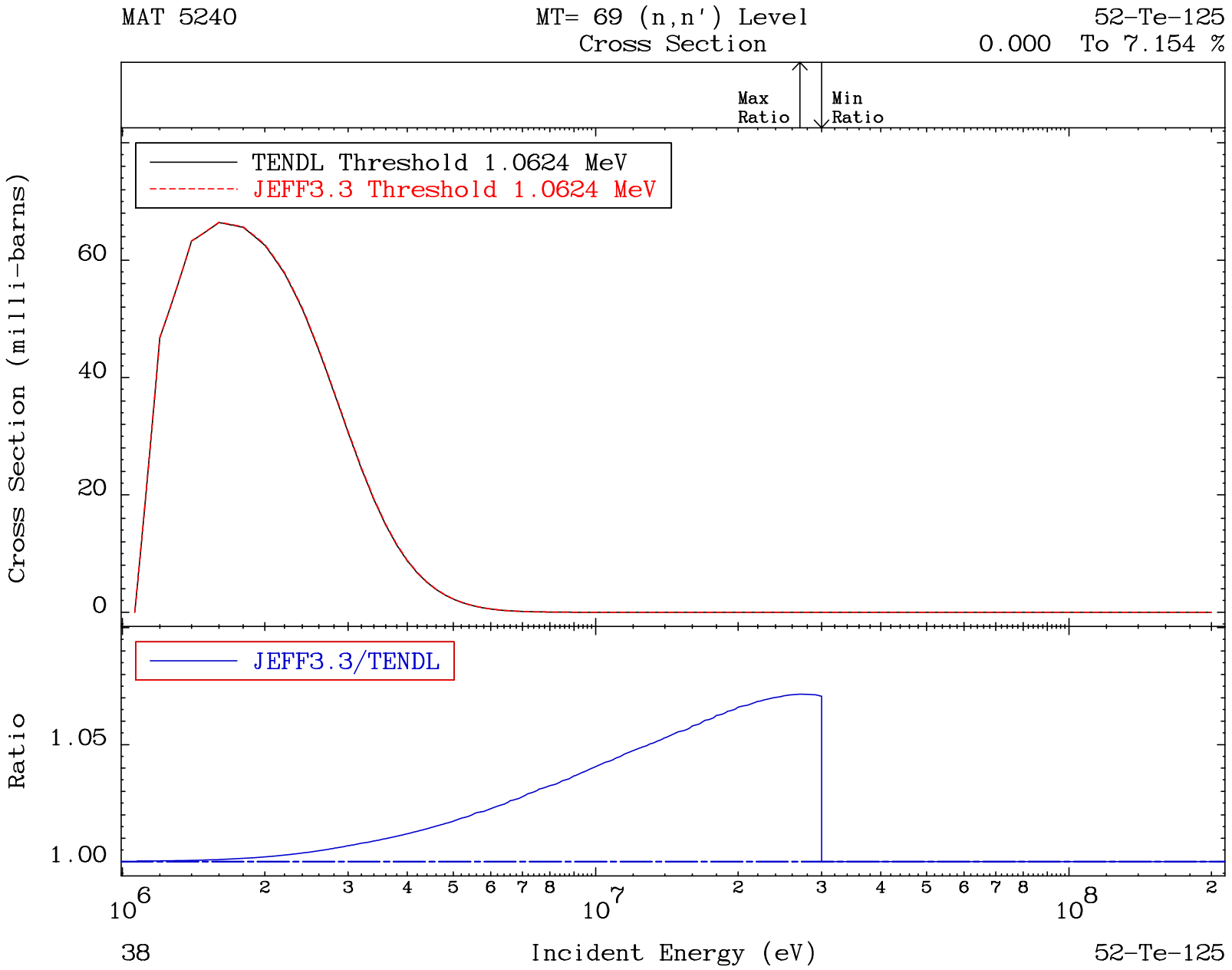

MAT 5240
MT= 64 (n,n') Level
Cross Section
52-Te-125
-0.058 To 7.148 %
Min
Ratio
Max
Ratio
TENDL Threshold 792.93 keV
JEFF3.3 Threshold 792.93 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.05
1.00
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
33
Incident Energy (eV)
52-Te-125

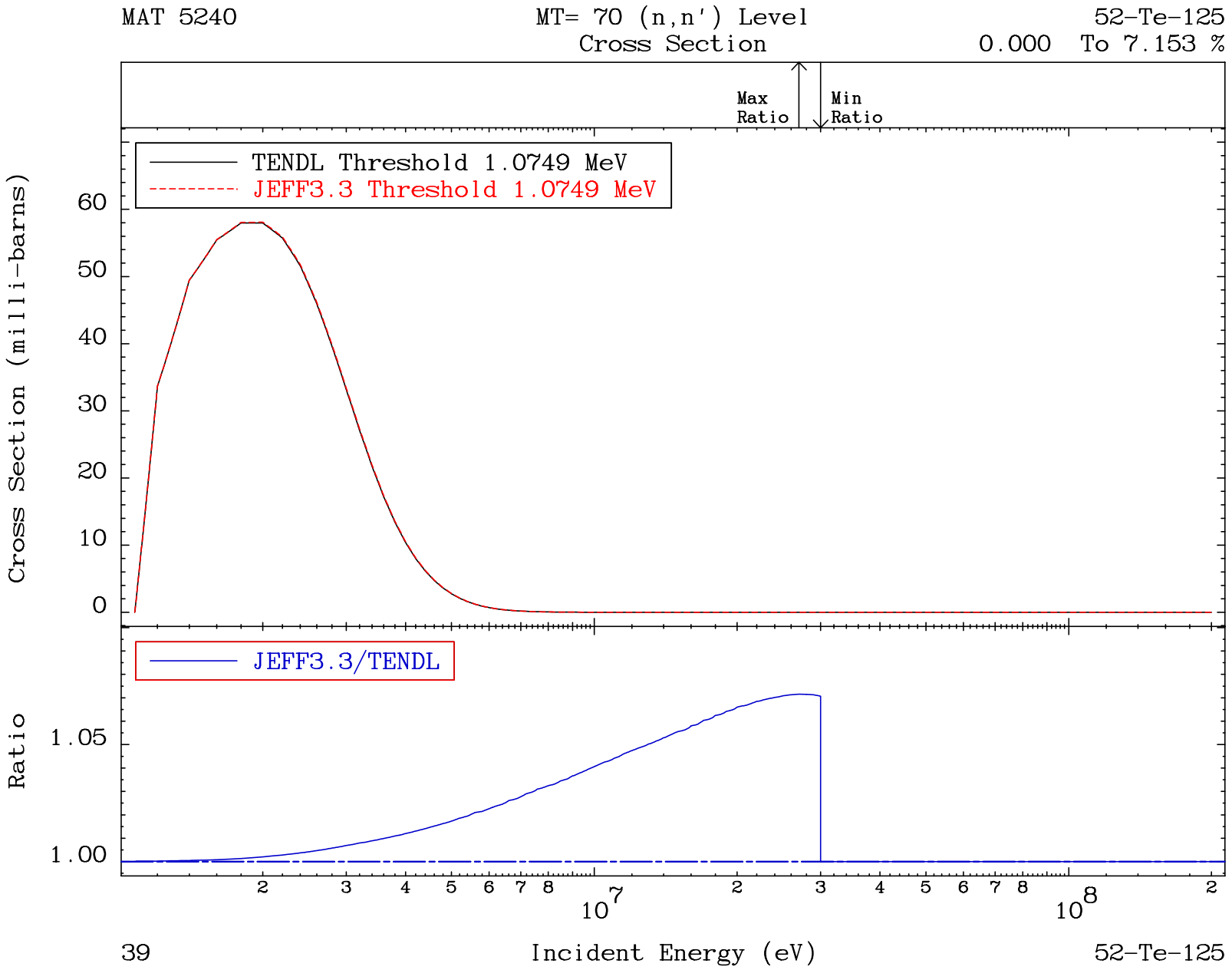

MAT 5240
MT= 65 (n,n') Level
Cross Section
52-Te-125
-0.975 To 7.131 %
Min
Ratio
Max
Ratio
TENDL Threshold 811.10 keV
JEFF3.3 Threshold 811.10 keV
Cross Section (milli-barns)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.05
1.00
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
34
Incident Energy (eV)
52-Te-125

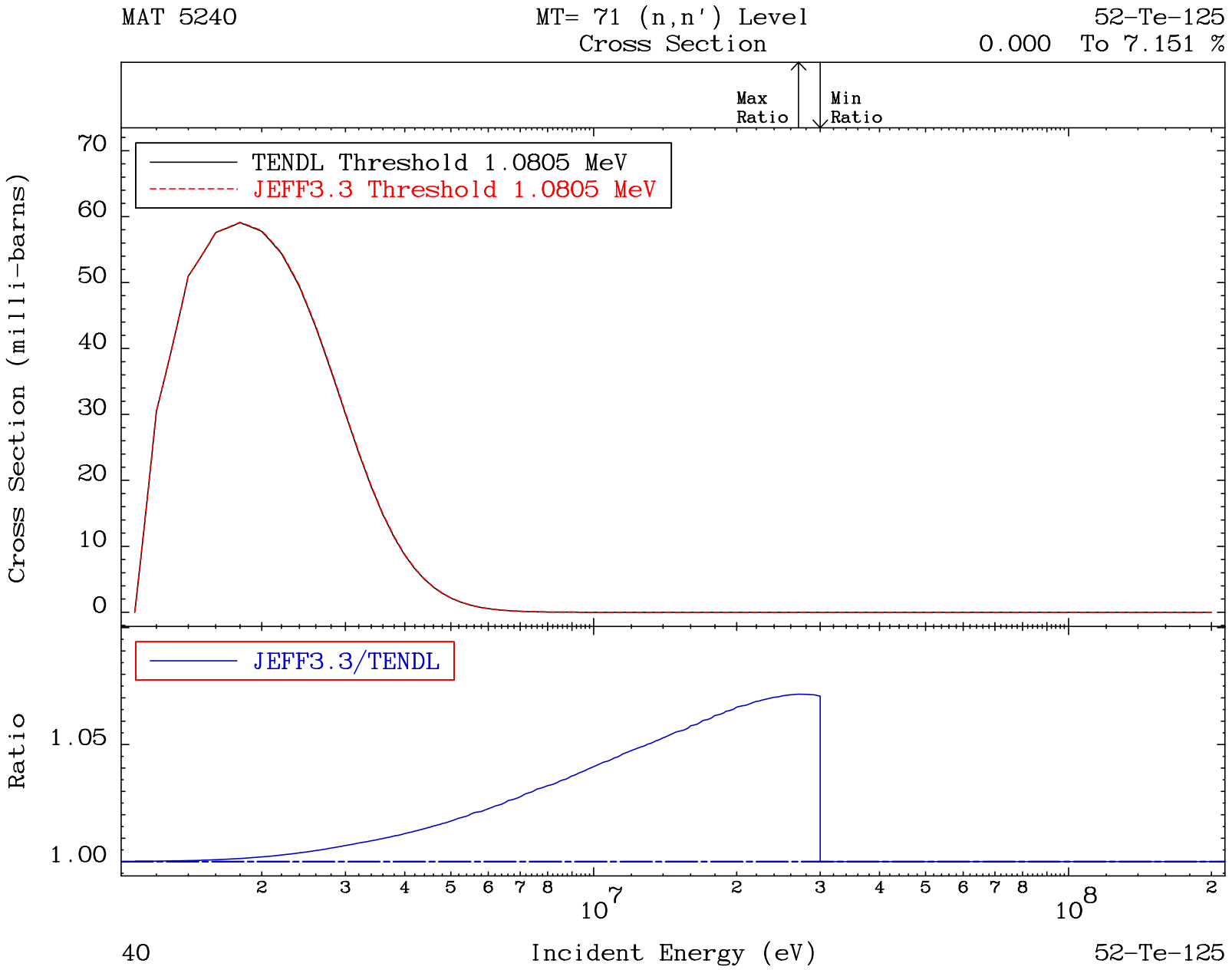

MAT 5240
MT= 66 (n,n') Level
Cross Section
52-Te-125
-1.134 To 7.132 %
Min
Ratio
Max
Ratio
TENDL Threshold 847.70 keV
JEFF3.3 Threshold 847.70 keV
Cross Section (milli-barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.05
1.00
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
35
Incident Energy (eV)
52-Te-125

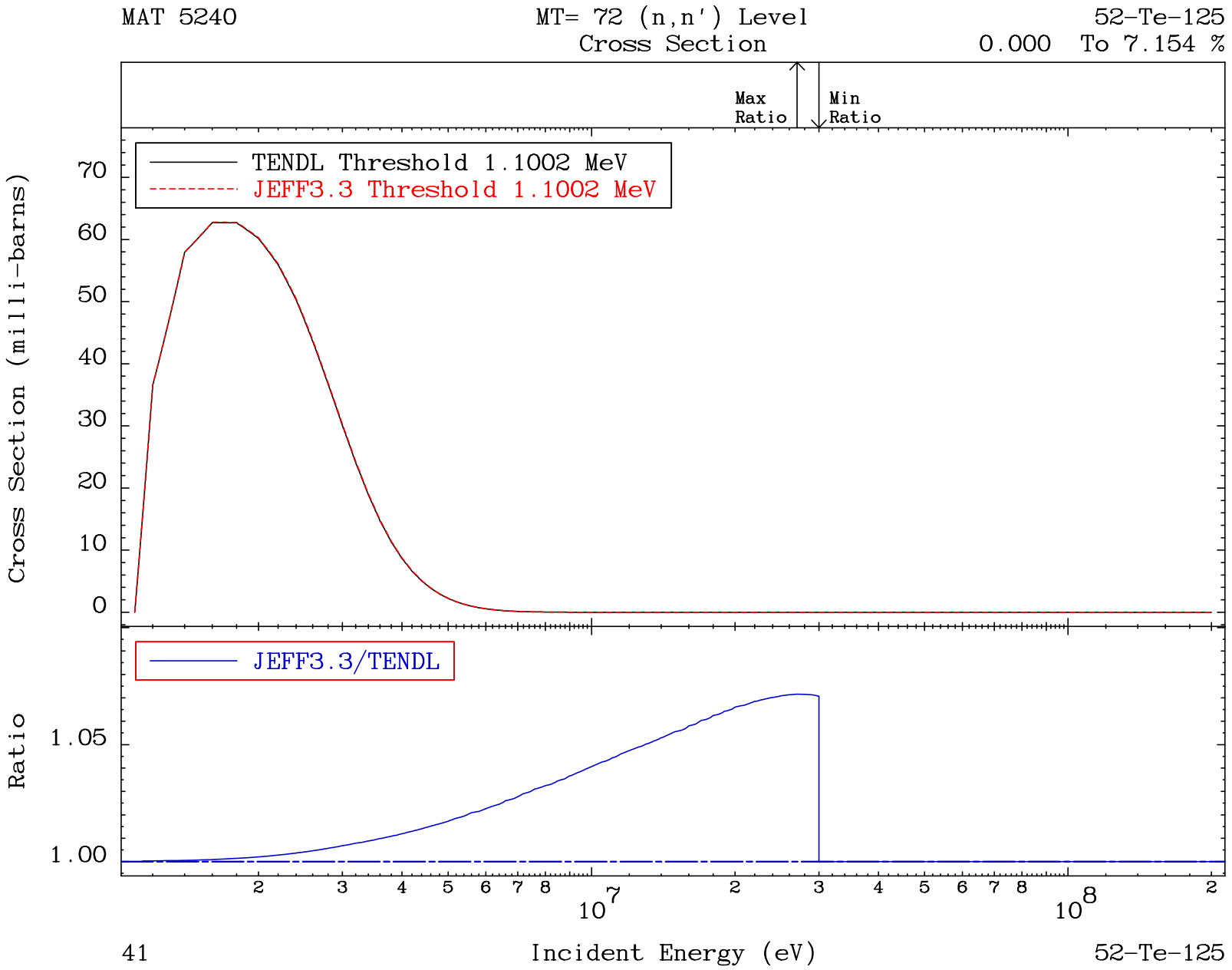

MAT 5240
MT= 67 (n,n') Level
Cross Section
52-Te-125
0.000 To 7.149 %
Max Ratio
Min Ratio
TENDL Threshold 1.0260 MeV
JEFF3.3 Threshold 1.0260 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.05
1.00
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
36
Incident Energy (eV)
52-Te-125

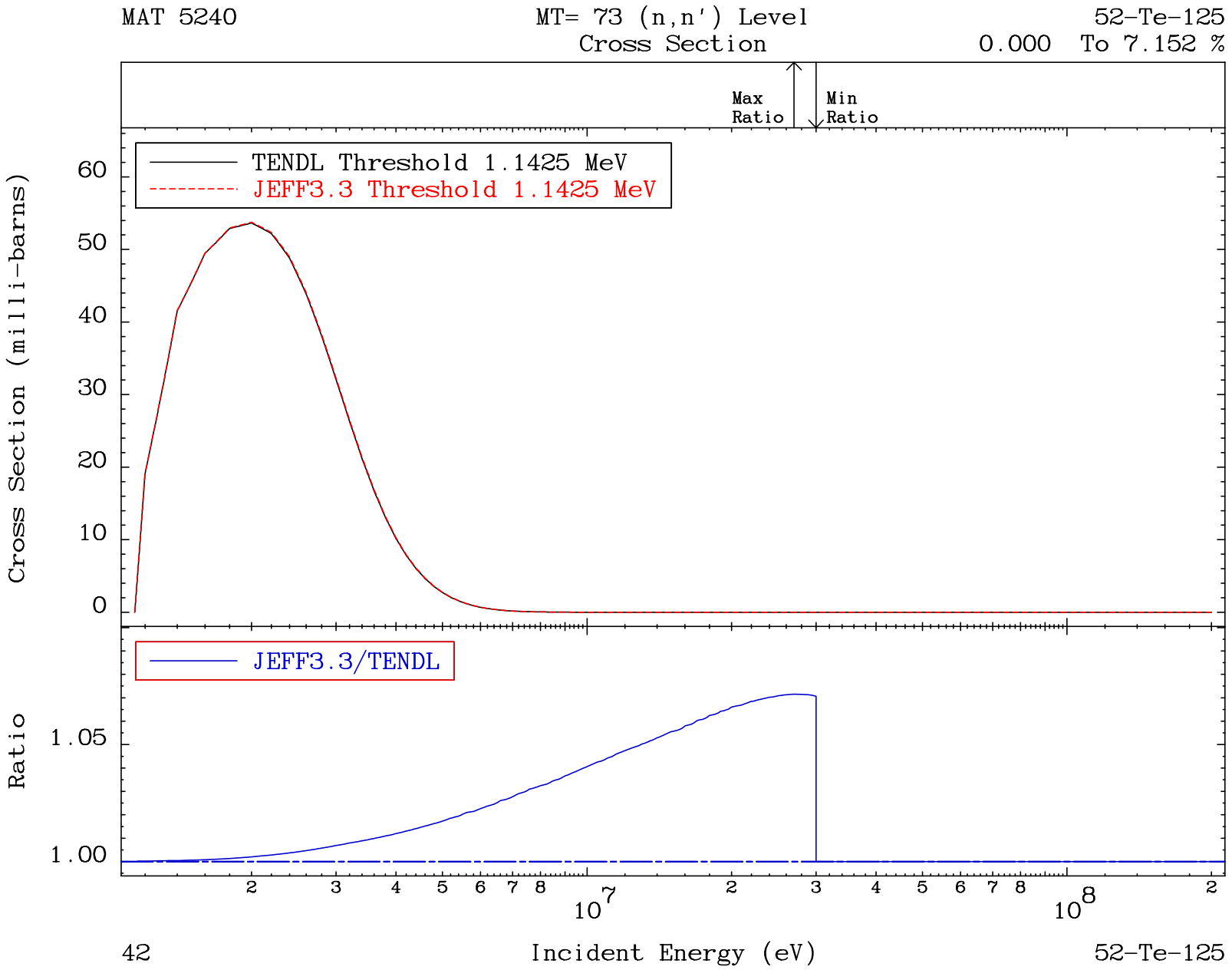

MAT 5240
MT= 68 (n,n') Level
Cross Section
52-Te-125
-0.007 To 7.146 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0377 MeV
JEFF3.3 Threshold 1.0377 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.05
1.00
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
37
Incident Energy (eV)
52-Te-125

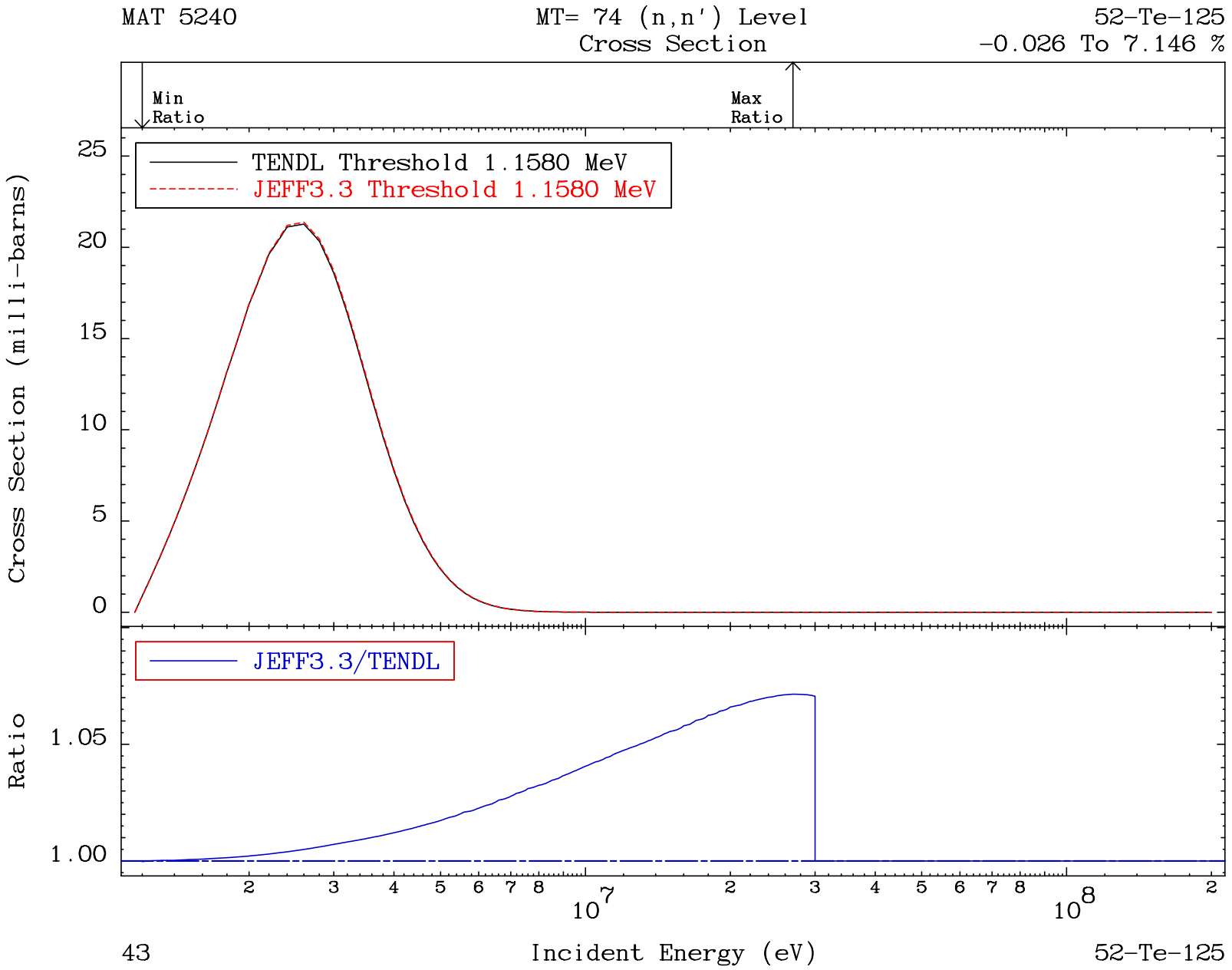

MAT 5240
MT= 69 (n,n') Level
Cross Section
52-Te-125
0.000 To 7.154 %
Max Ratio
Min Ratio
TENDL Threshold 1.0624 MeV
JEFF3.3 Threshold 1.0624 MeV
Cross Section (milli-barns)
60
40
20
0
JEFF3.3/TENDL
Ratio
1.05
1.00
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
38
Incident Energy (eV)
52-Te-125

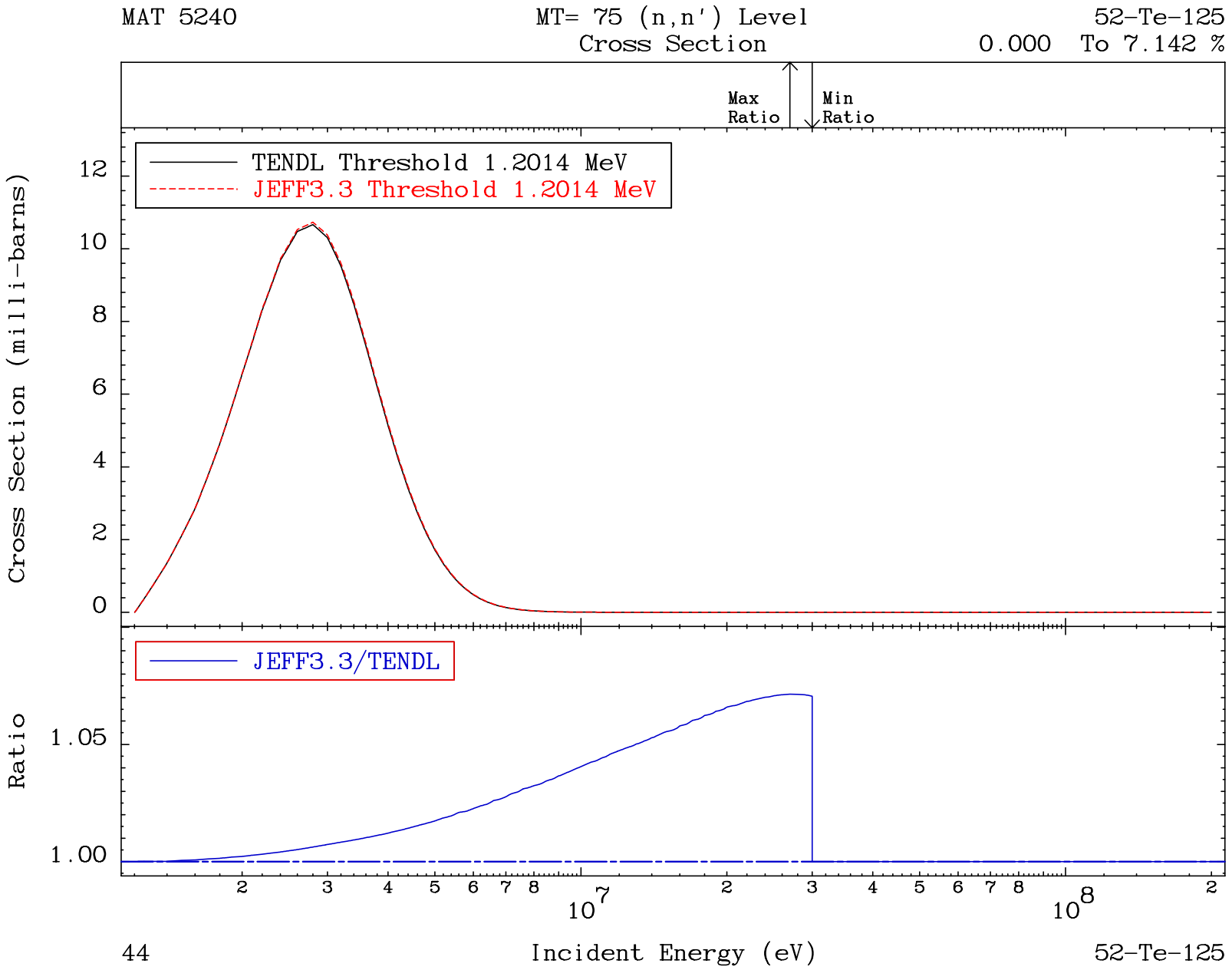

MAT 5240
MT= 70 (n,n') Level
Cross Section
52-Te-125
0.000 To 7.153 %
Max Ratio
Min Ratio
TENDL Threshold 1.0749 MeV
JEFF3.3 Threshold 1.0749 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.05
1.00
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
39
Incident Energy (eV)
52-Te-125

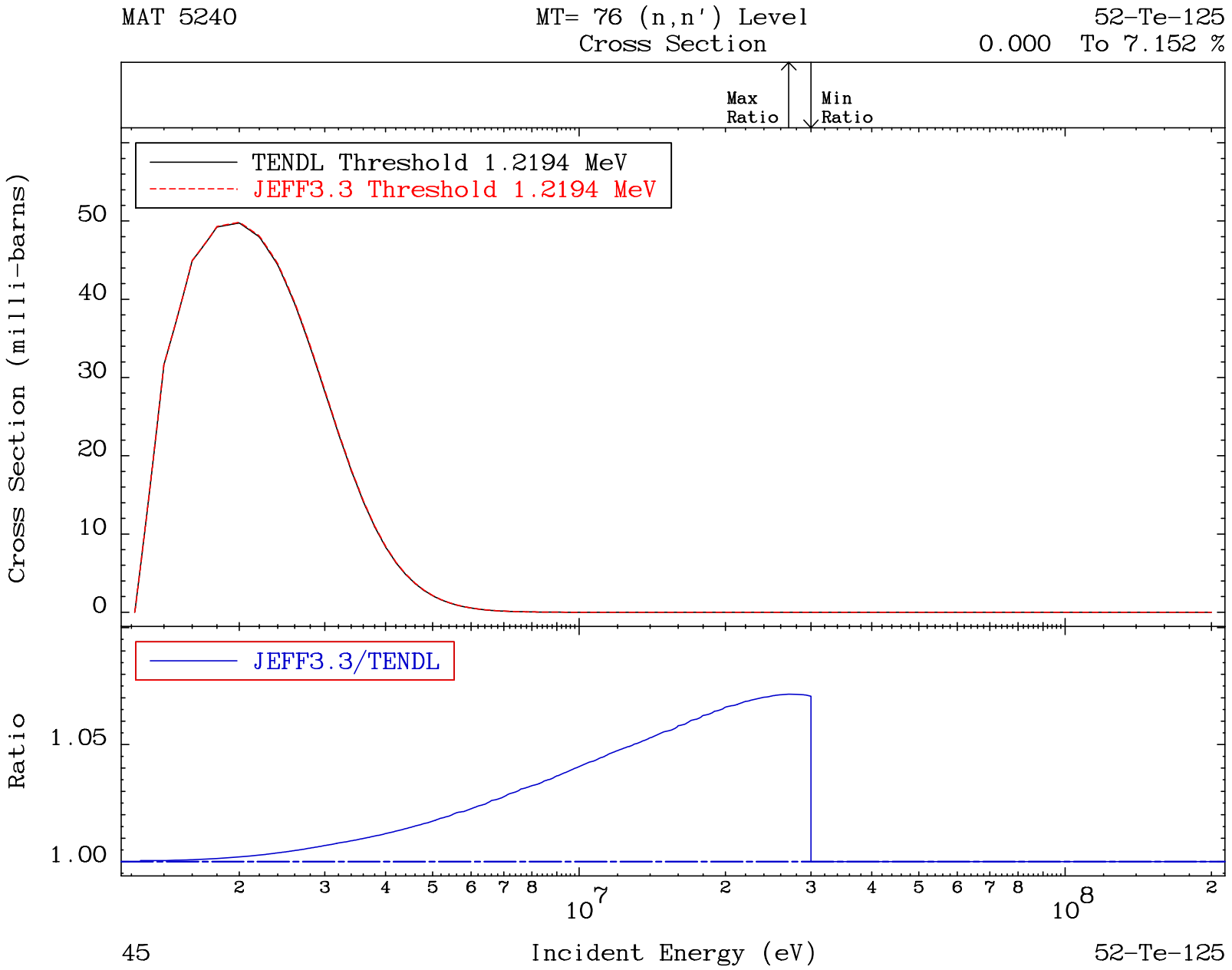

MAT 5240
MT= 71 (n,n') Level
Cross Section
52-Te-125
0.000 To 7.151 %
Max Ratio
Min Ratio
TENDL Threshold 1.0805 MeV
JEFF3.3 Threshold 1.0805 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.05
1.00
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
40
Incident Energy (eV)
52-Te-125

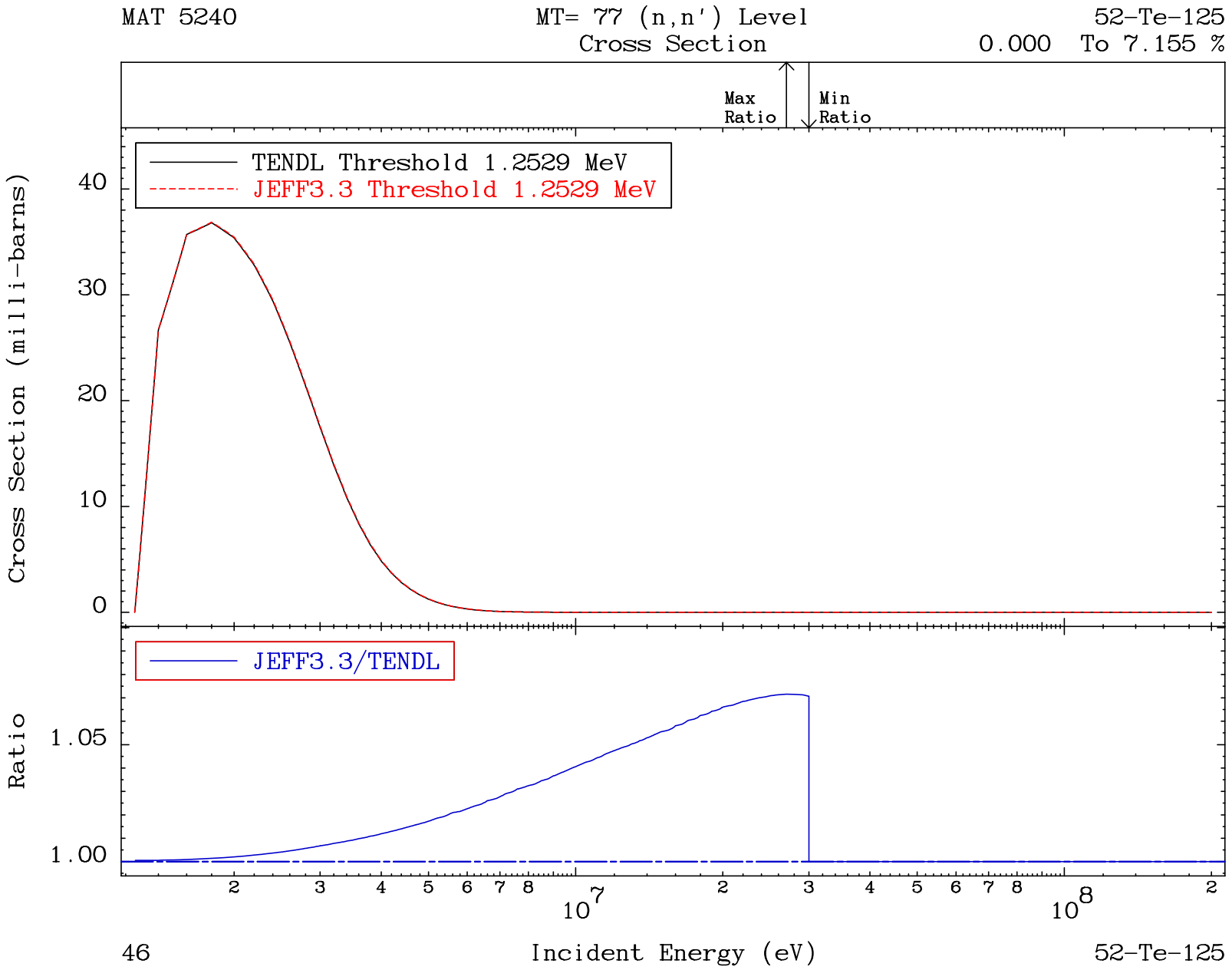

MAT 5240
MT= 72 (n,n') Level
Cross Section
52-Te-125
0.000 To 7.154 %
Max Ratio
Min Ratio
TENDL Threshold 1.1002 MeV
JEFF3.3 Threshold 1.1002 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.05
1.00
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
41
Incident Energy (eV)
52-Te-125

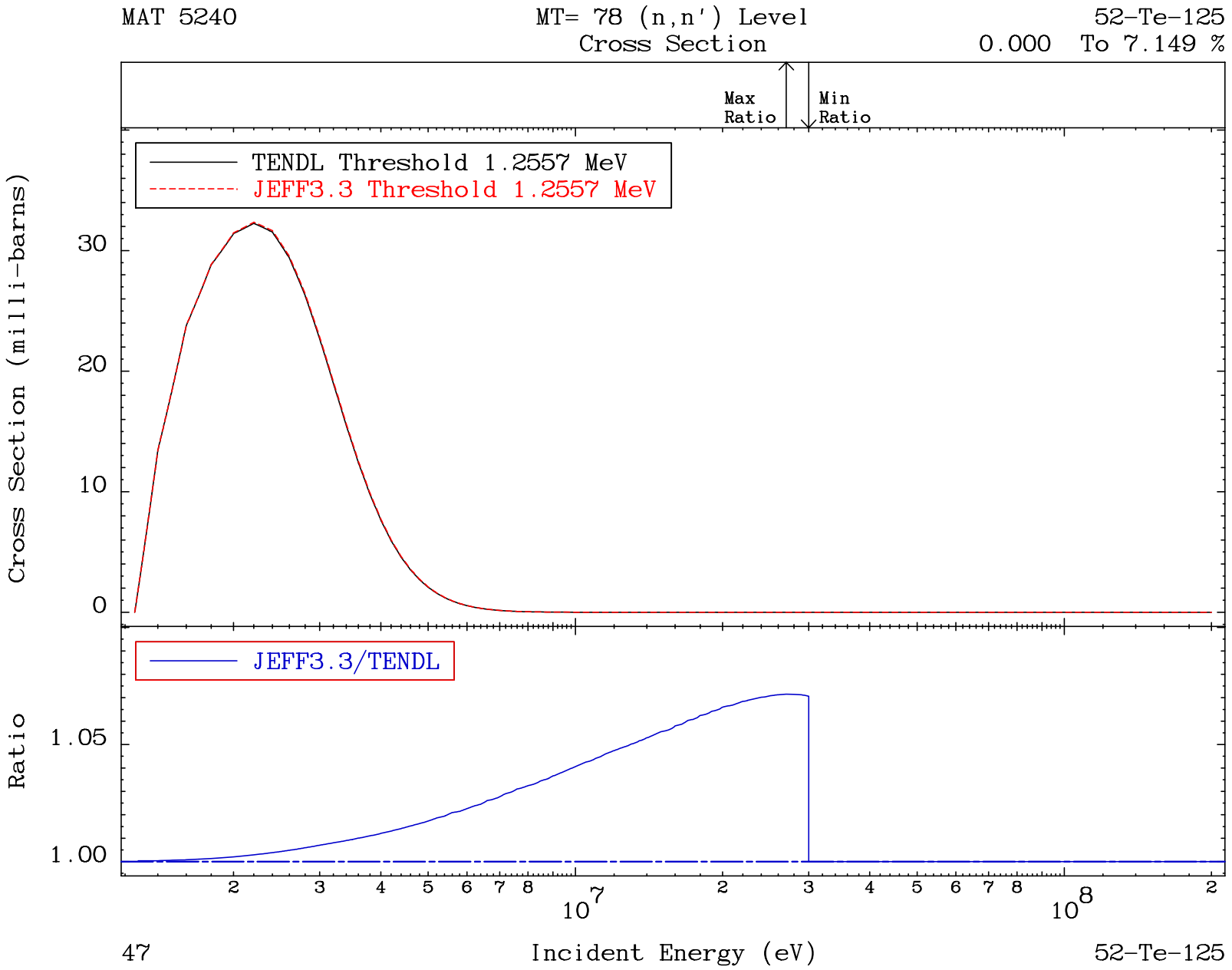

MAT 5240
MT= 73 (n,n') Level
Cross Section
52-Te-125
0.000 To 7.152 %
Max Ratio
Min Ratio
TENDL Threshold 1.1425 MeV
JEFF3.3 Threshold 1.1425 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.05
1.00
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
42
Incident Energy (eV)
52-Te-125

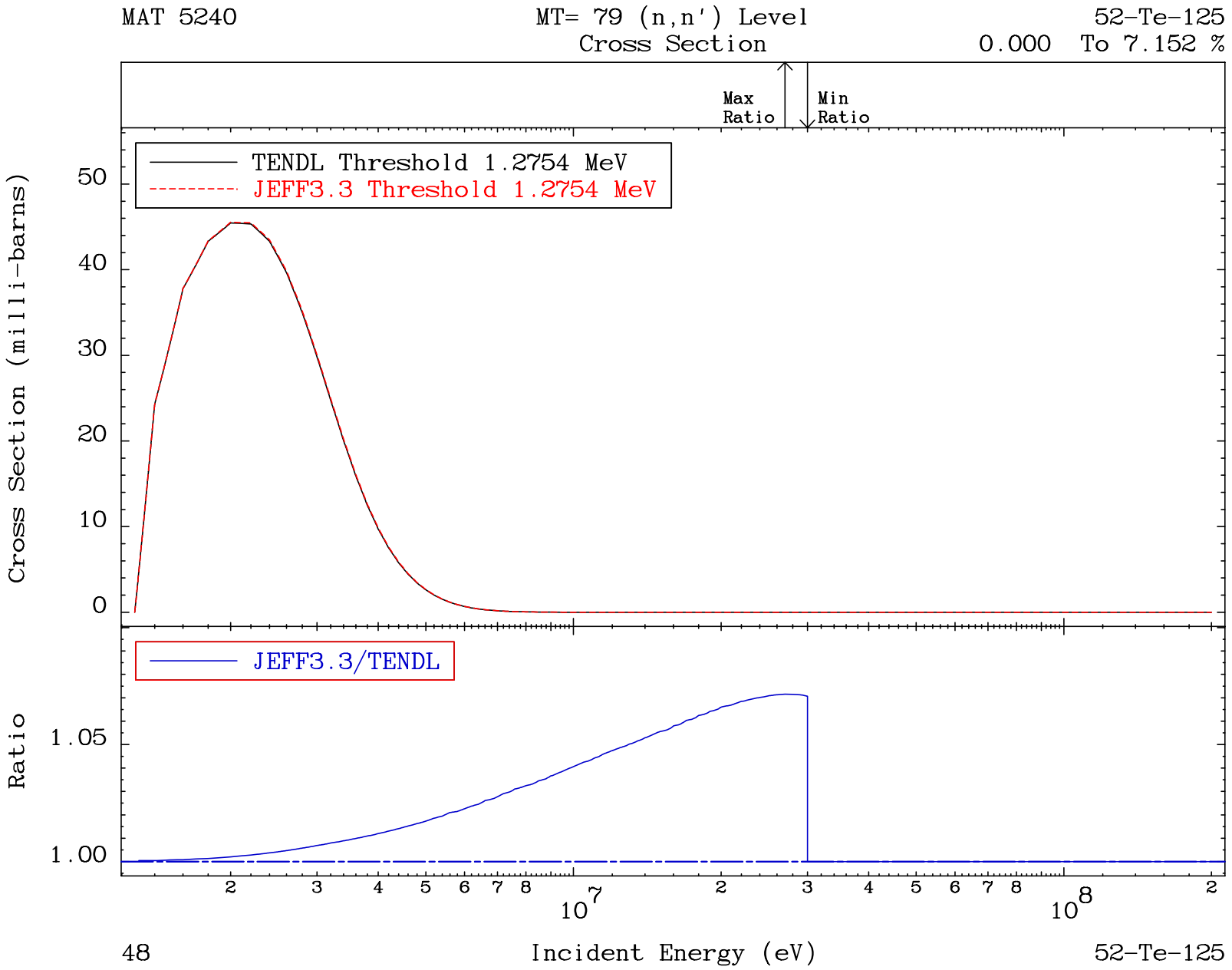

MAT 5240
MT= 74 (n,n') Level
Cross Section
52-Te-125
-0.026 To 7.146 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.1580 MeV
JEFF3.3 Threshold 1.1580 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.05
1.00
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
43
Incident Energy (eV)
52-Te-125

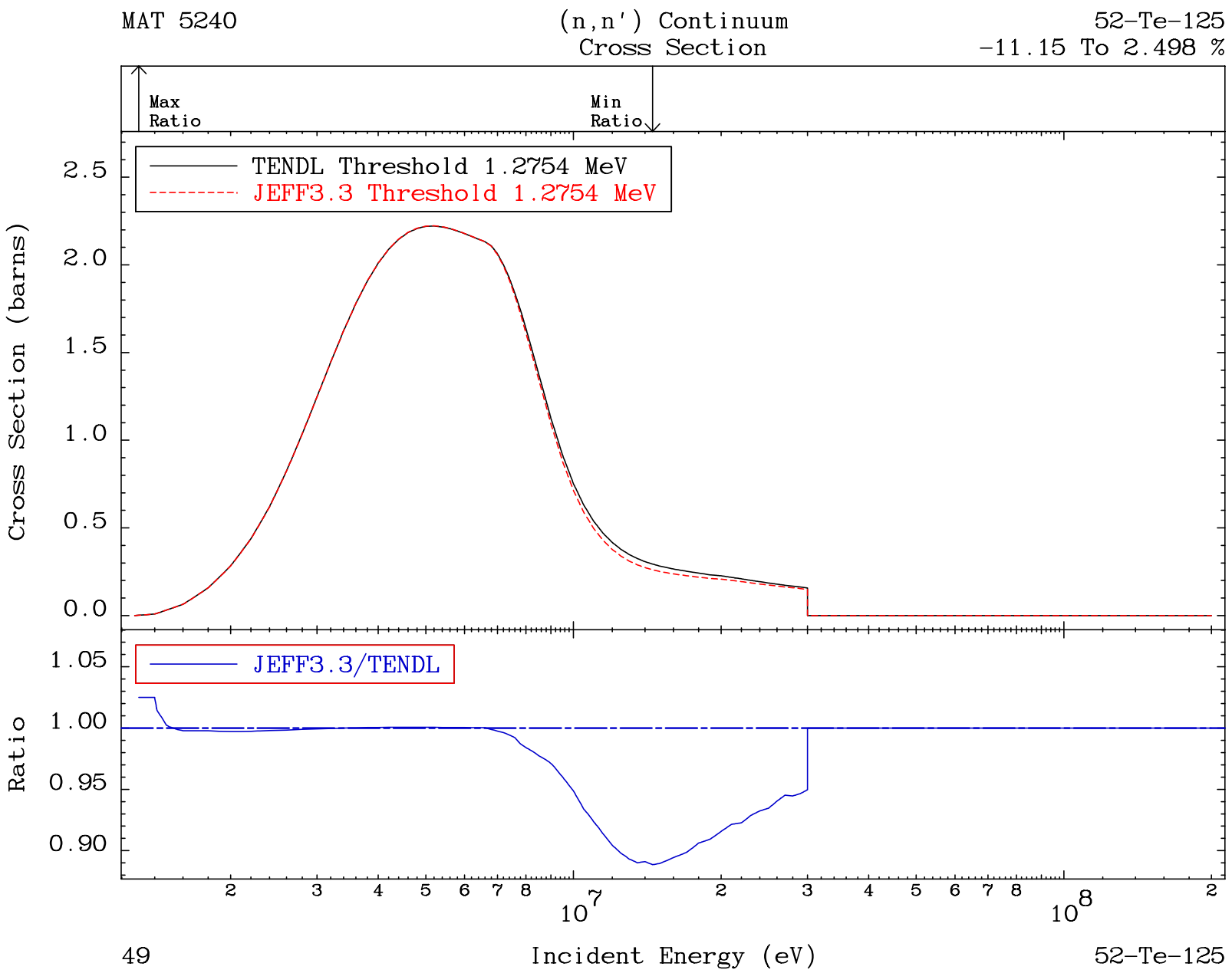

MAT 5240
MT= 75 (n,n') Level
Cross Section
52-Te-125
0.000 To 7.142 %
Max Ratio
Min Ratio
TENDL Threshold 1.2014 MeV
JEFF3.3 Threshold 1.2014 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.05
1.00
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
44
Incident Energy (eV)
52-Te-125

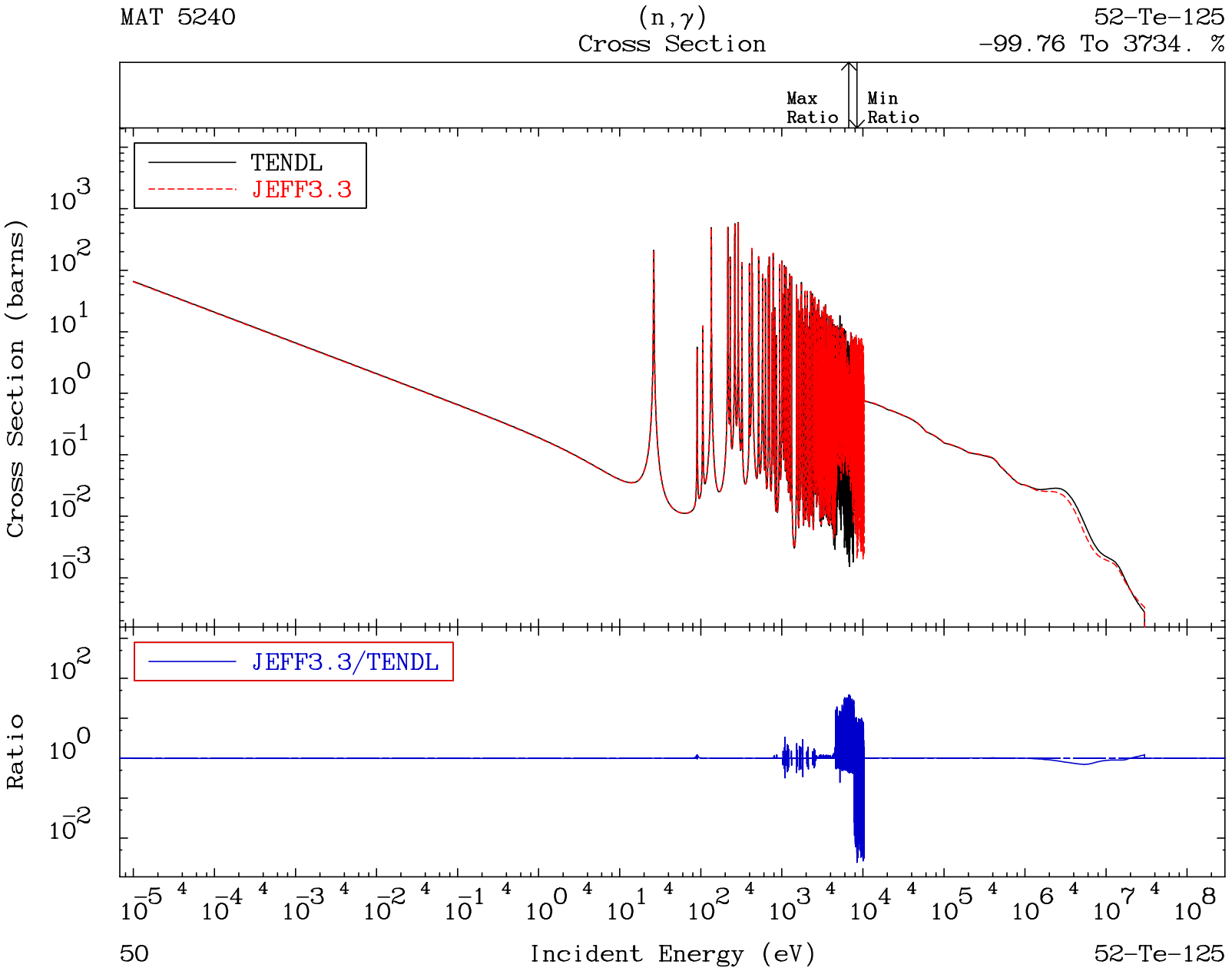

MAT 5240
MT= 76 (n,n') Level
Cross Section
52-Te-125
0.000 To 7.152 %
Max Ratio
Min Ratio
TENDL Threshold 1.2194 MeV
JEFF3.3 Threshold 1.2194 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.05
1.00
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
45
Incident Energy (eV)
52-Te-125

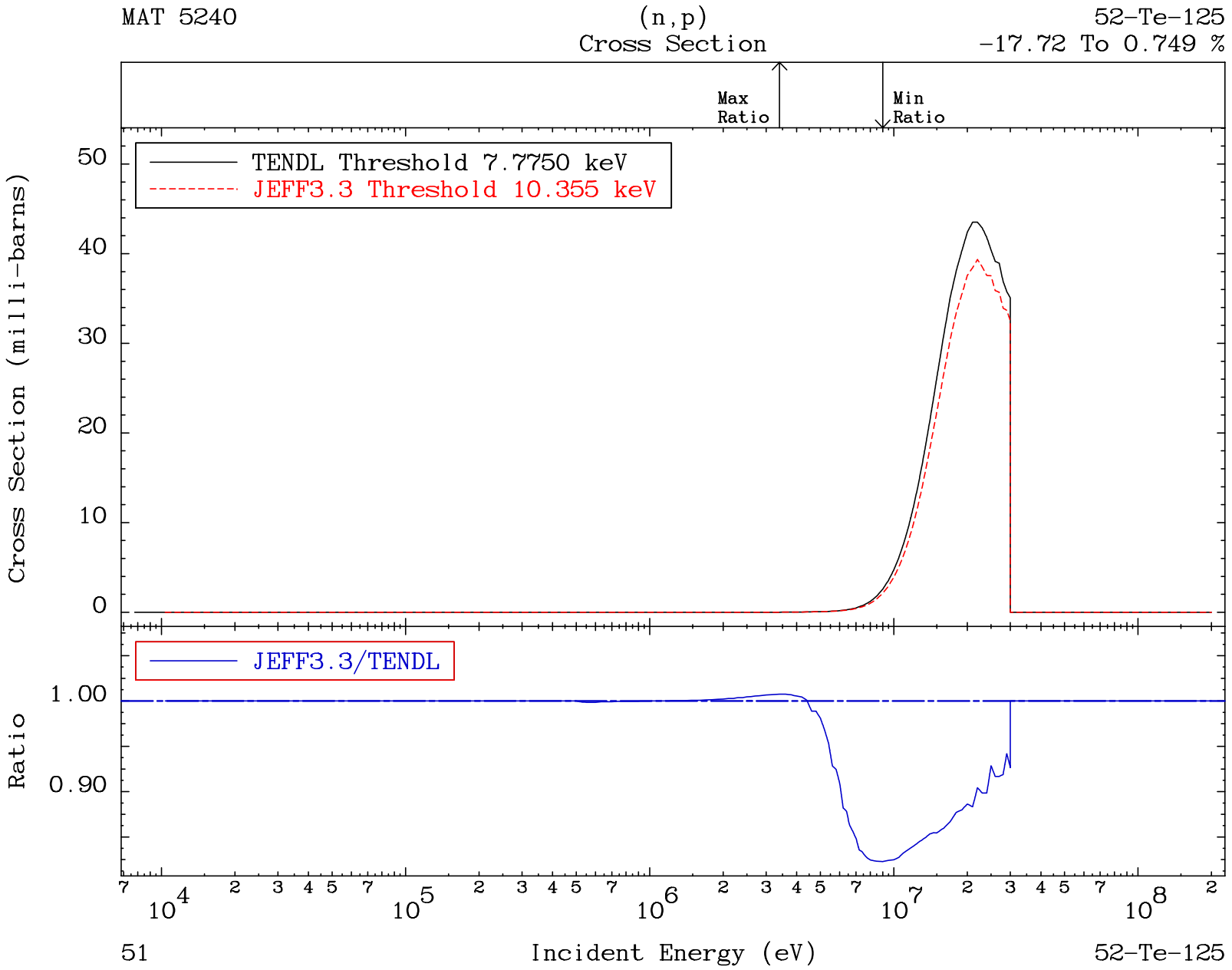

MAT 5240
MT= 77 (n,n') Level
Cross Section
52-Te-125
0.000 To 7.155 %
Max Ratio
Min Ratio
TENDL Threshold 1.2529 MeV
JEFF3.3 Threshold 1.2529 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.05
1.00
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
46
Incident Energy (eV)
52-Te-125

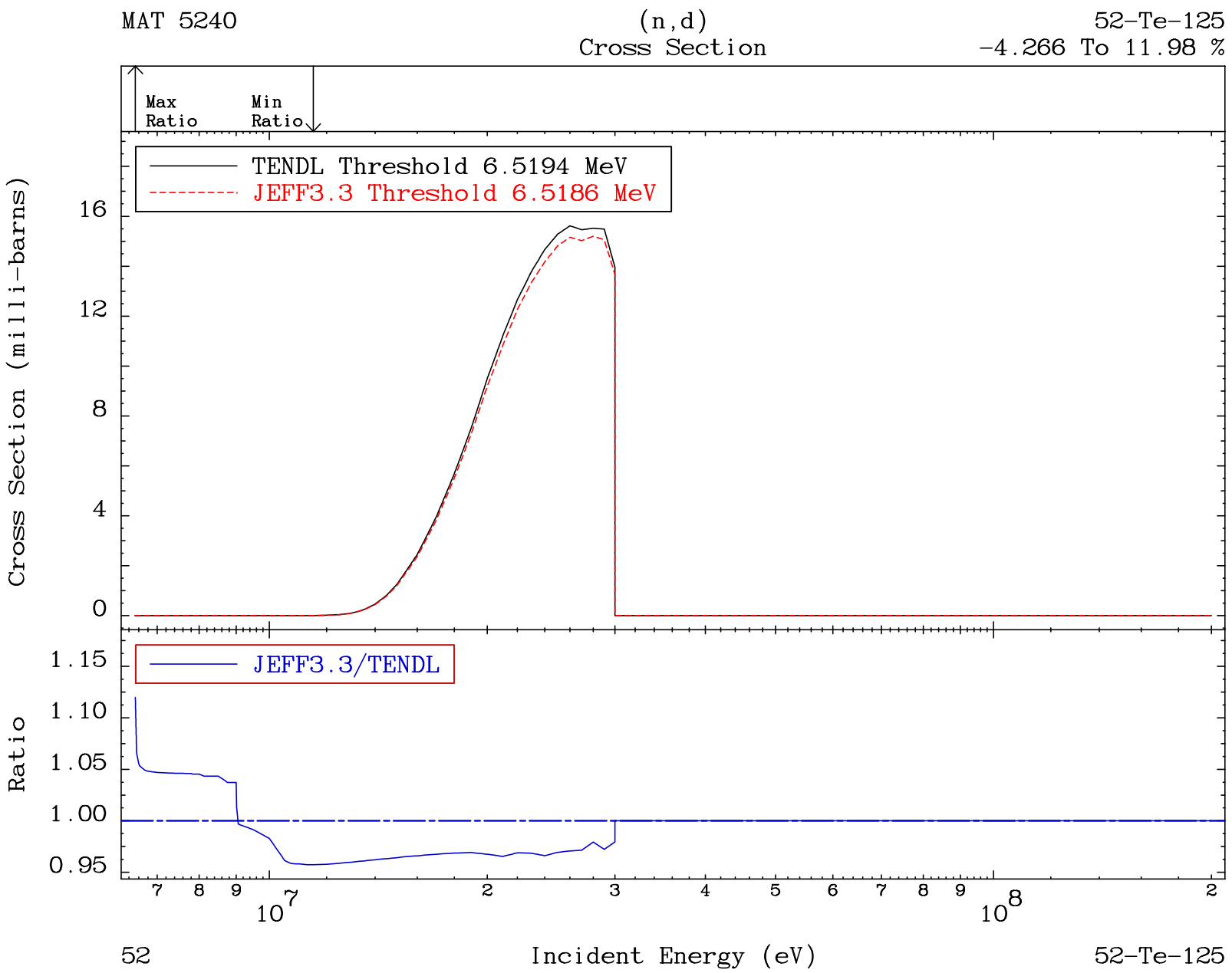

MAT 5240
MT= 78 (n,n') Level
Cross Section
52-Te-125
0.000 To 7.149 %
Max Ratio
Min Ratio
TENDL Threshold 1.2557 MeV
JEFF3.3 Threshold 1.2557 MeV
Cross Section (milli-barns)
30
20
10
0
JEFF3.3/TENDL
Ratio
1.05
1.00
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
47
Incident Energy (eV)
52-Te-125

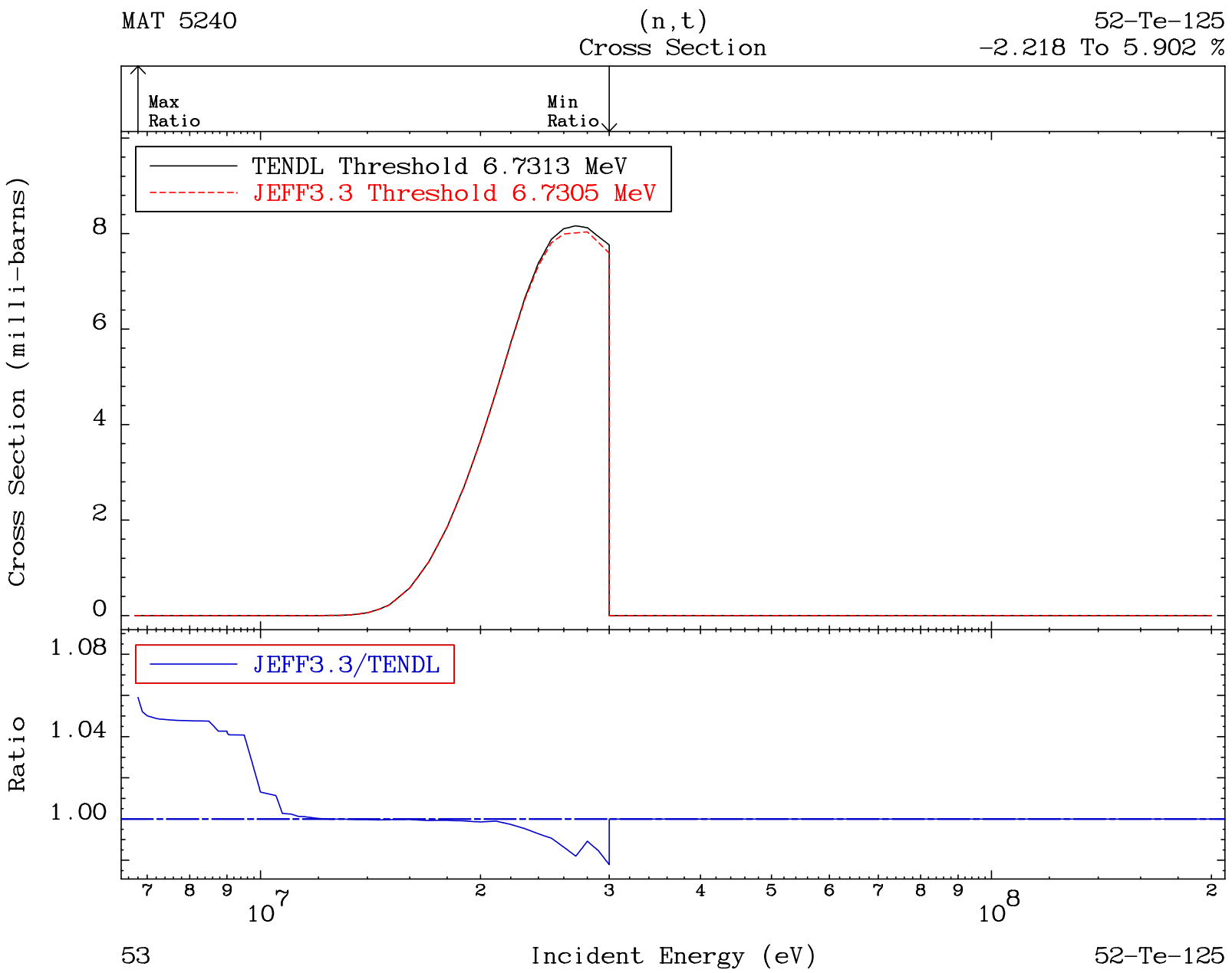

MAT 5240
MT= 79 (n,n') Level
Cross Section
52-Te-125
0.000 To 7.152 %
Max Ratio
Min Ratio
TENDL Threshold 1.2754 MeV
JEFF3.3 Threshold 1.2754 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.05
1.00
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
48
Incident Energy (eV)
52-Te-125

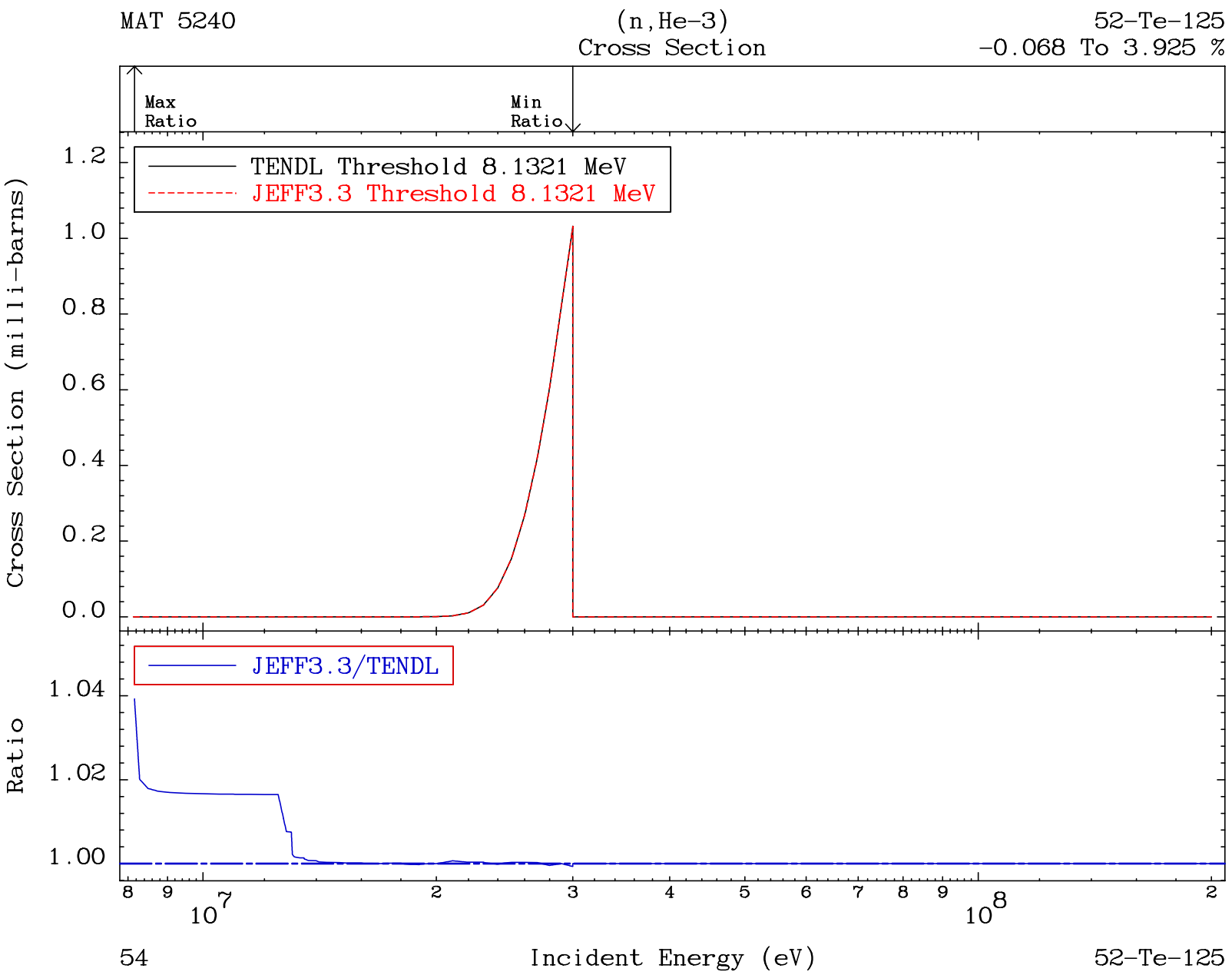

MAT 5240
(n,n') Continuum
Cross Section
52-Te-125
-11.15 To 2.498 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.2754 MeV
JEFF3.3 Threshold 1.2754 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.05
1.00
0.95
0.90
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
49
Incident Energy (eV)
52-Te-125

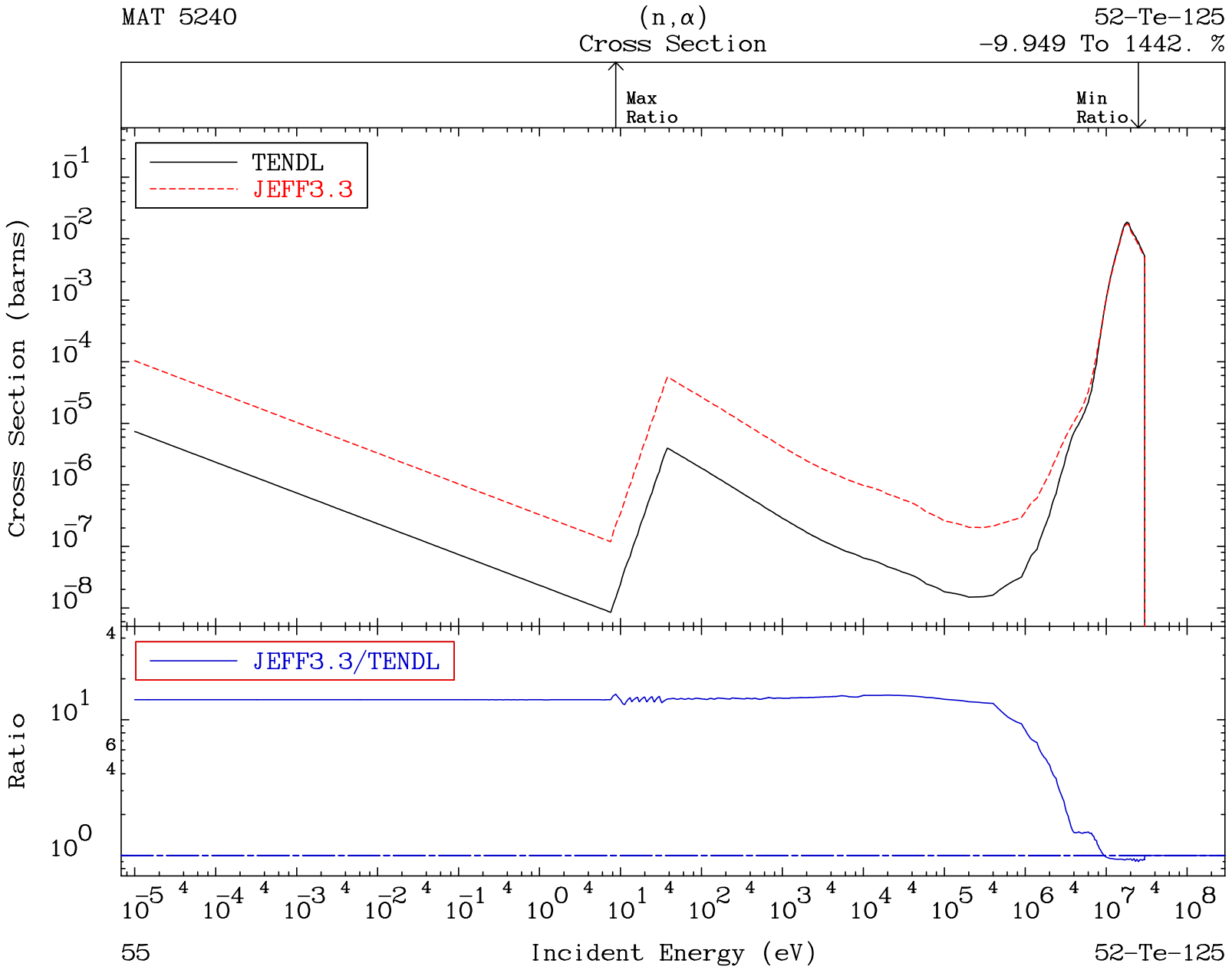

MAT 5240
(n,γ)
Cross Section
52-Te-125
-99.76 To 3734. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
50
52-Te-125

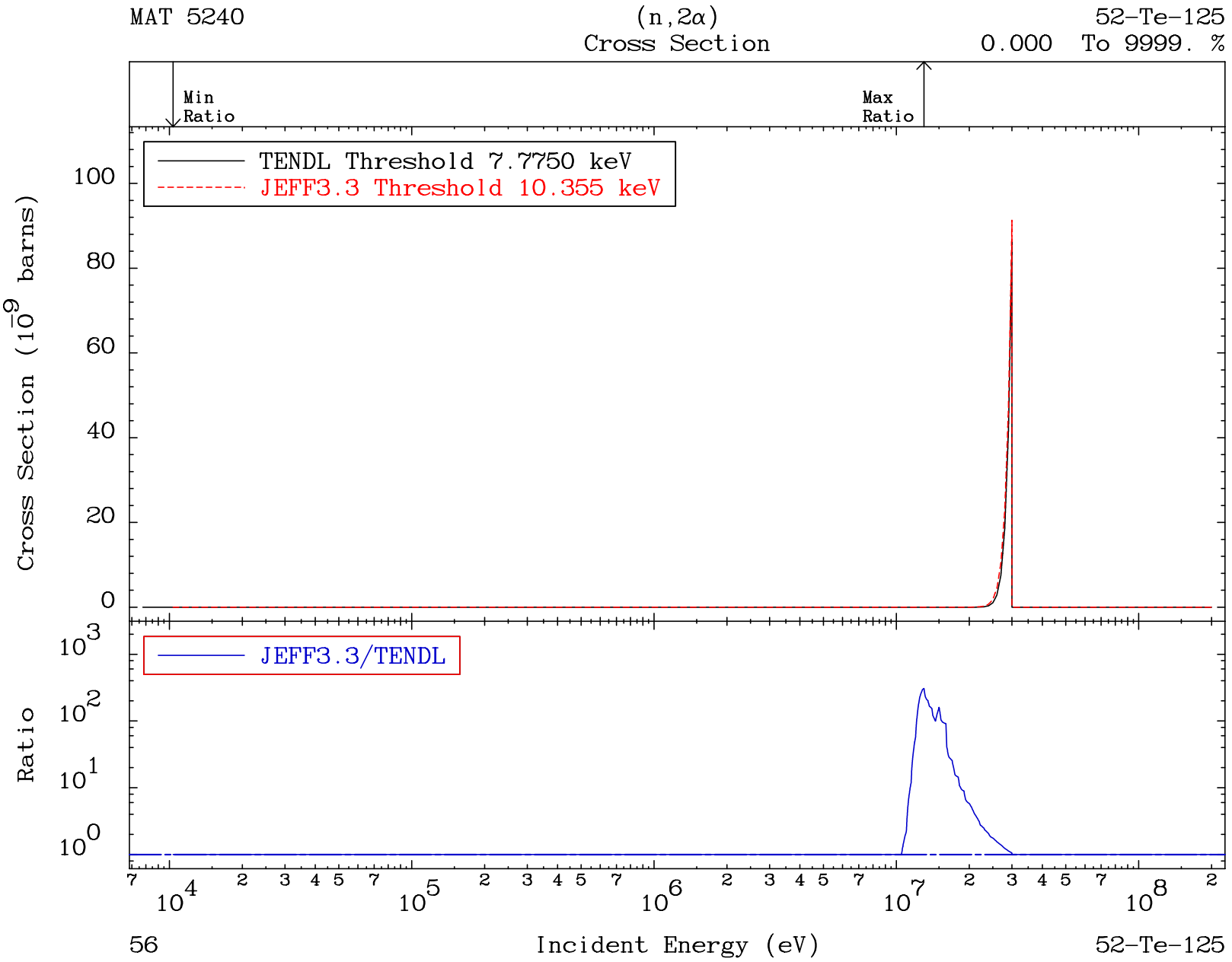

MAT 5240
(n,p)
Cross Section
52-Te-125
-17.72 To 0.749 %
Max Ratio
Min Ratio
TENDL Threshold 7.7750 keV
JEFF3.3 Threshold 10.355 keV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.00
0.90
Incident Energy (eV)
51
52-Te-125

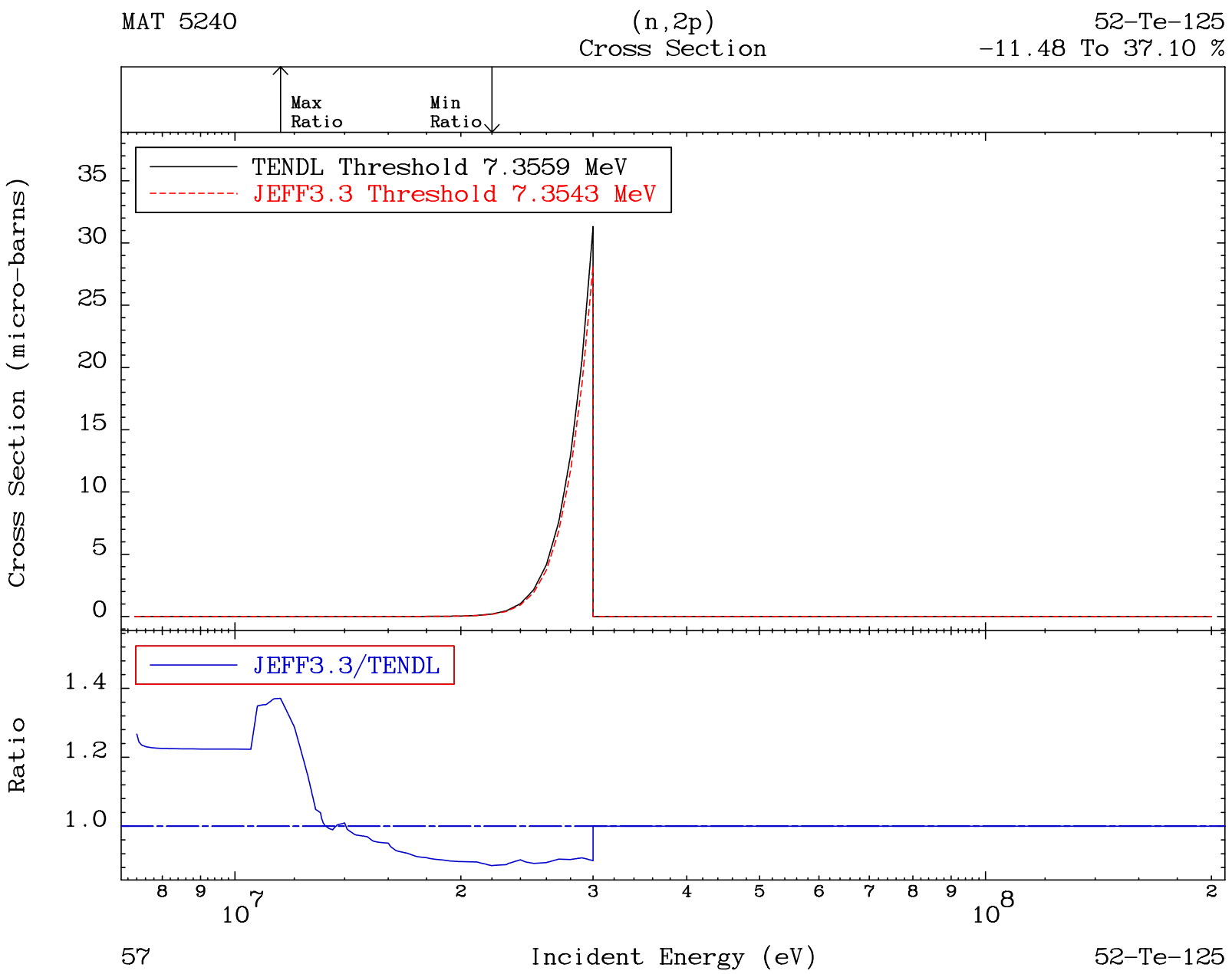

MAT 5240
(n,d)
Cross Section
52-Te-125
-4.266 To 11.98 %
Max Ratio
Min Ratio
TENDL Threshold 6.5194 MeV
JEFF3.3 Threshold 6.5186 MeV
Cross Section (milli-barns)
16
12
8
4
0
JEFF3.3/TENDL
Ratio
1.15
1.10
1.05
1.00
0.95
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
52
Incident Energy (eV)
52-Te-125

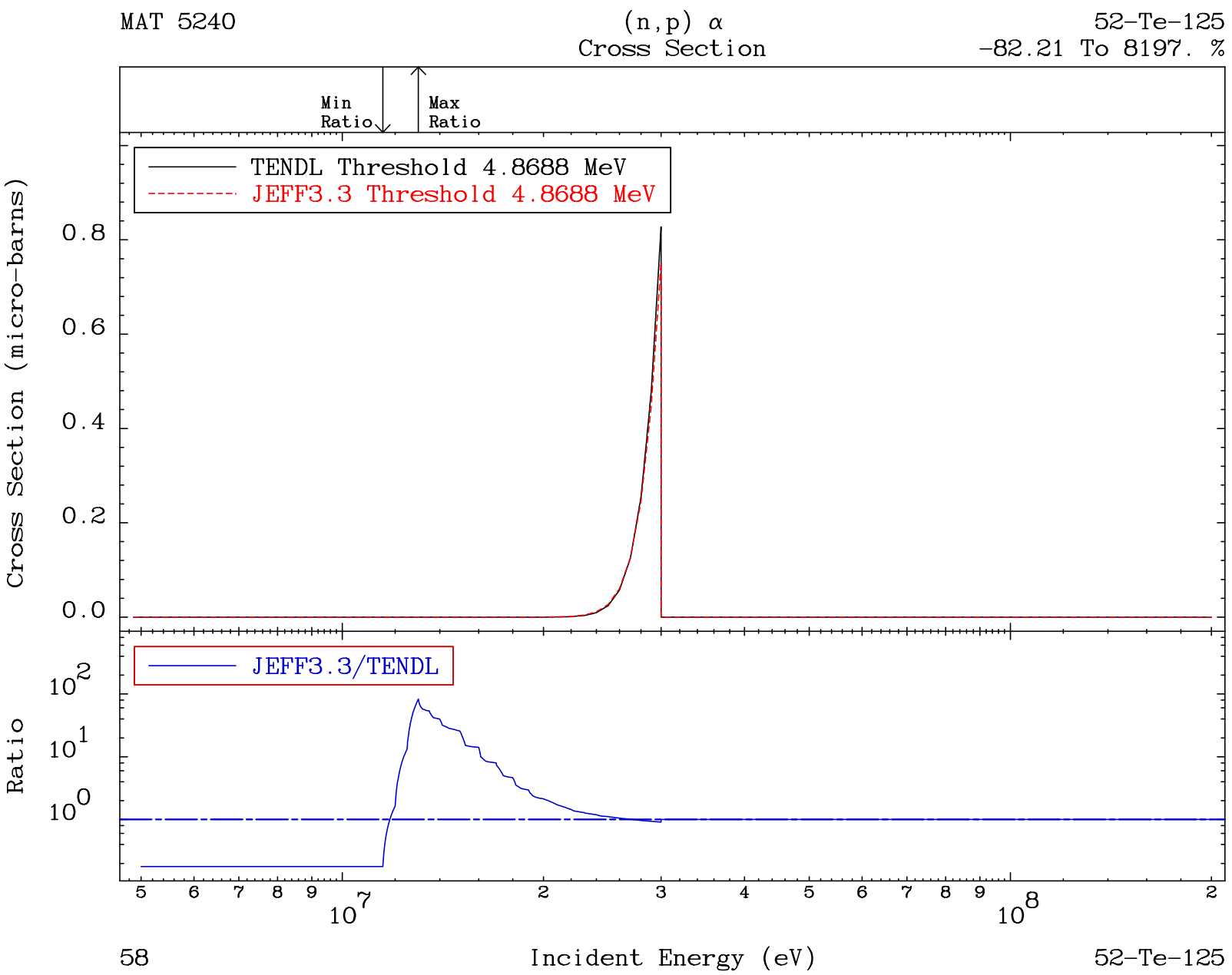

MAT 5240
(n,t)
Cross Section
52-Te-125
-2.218 To 5.902 %
Max Ratio
Min Ratio
TENDL Threshold 6.7313 MeV
JEFF3.3 Threshold 6.7305 MeV
Cross Section (milli-barns)
0
2
4
6
8
JEFF3.3/TENDL
Ratio
1.00
1.04
1.08
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
53
Incident Energy (eV)
52-Te-125

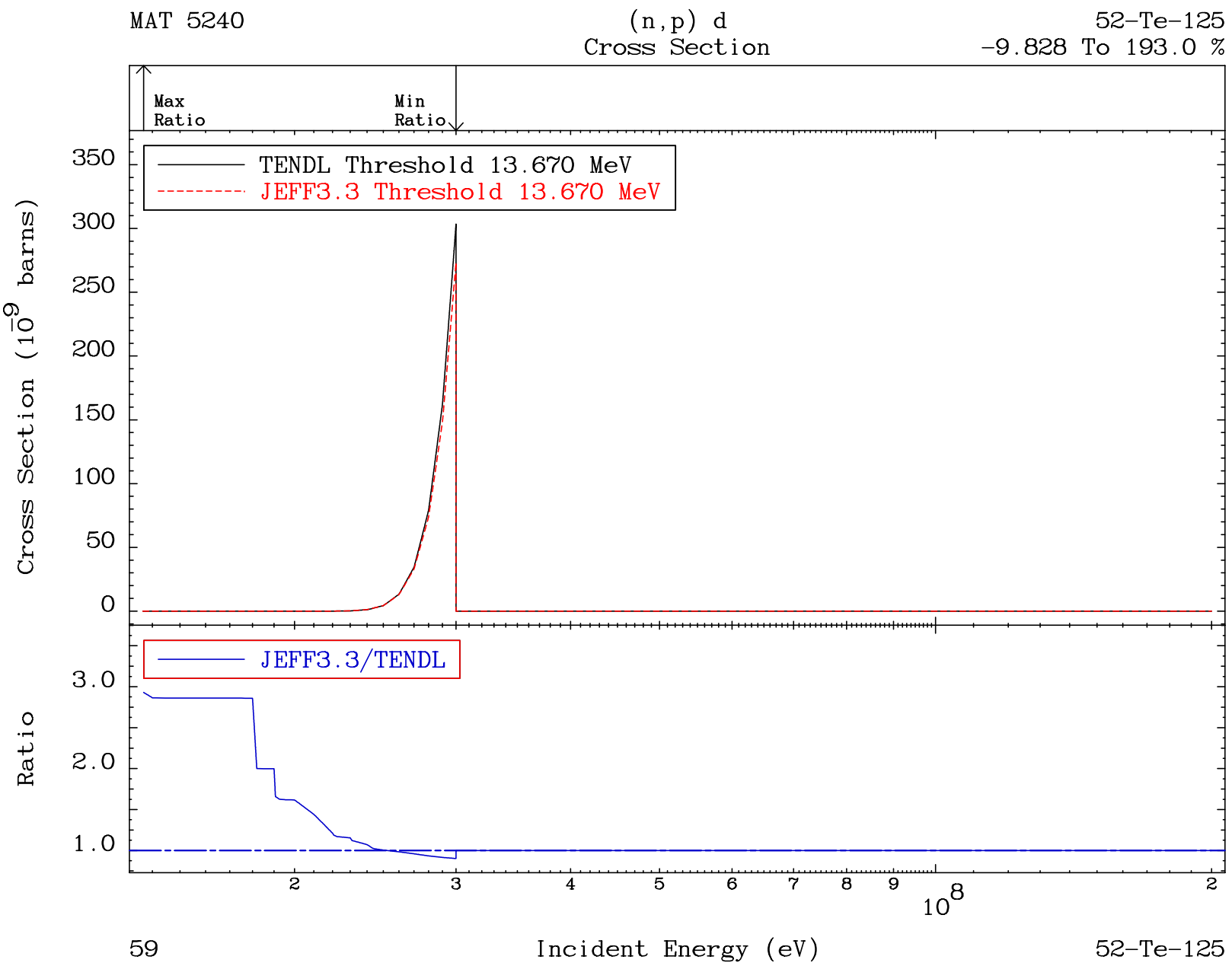

MAT 5240
(n,He-3)
Cross Section
52-Te-125
-0.068 To 3.925 %
Max Ratio
Min Ratio
TENDL Threshold 8.1321 MeV
JEFF3.3 Threshold 8.1321 MeV
Cross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.04
1.02
1.00
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
54
Incident Energy (eV)
52-Te-125

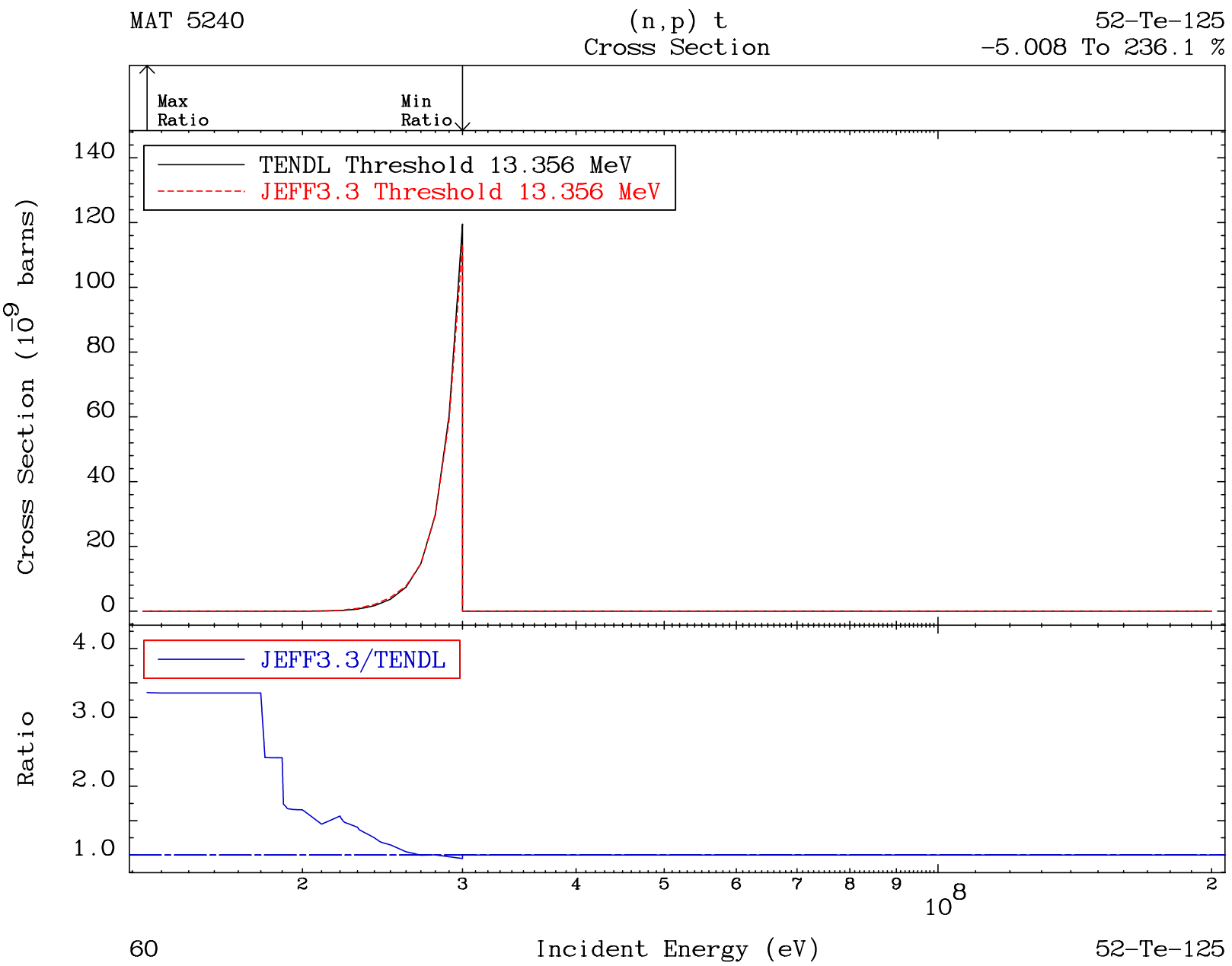

MAT 5240
(n,α)
Cross Section
52-Te-125
-9.949 To 1442. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
55
52-Te-125

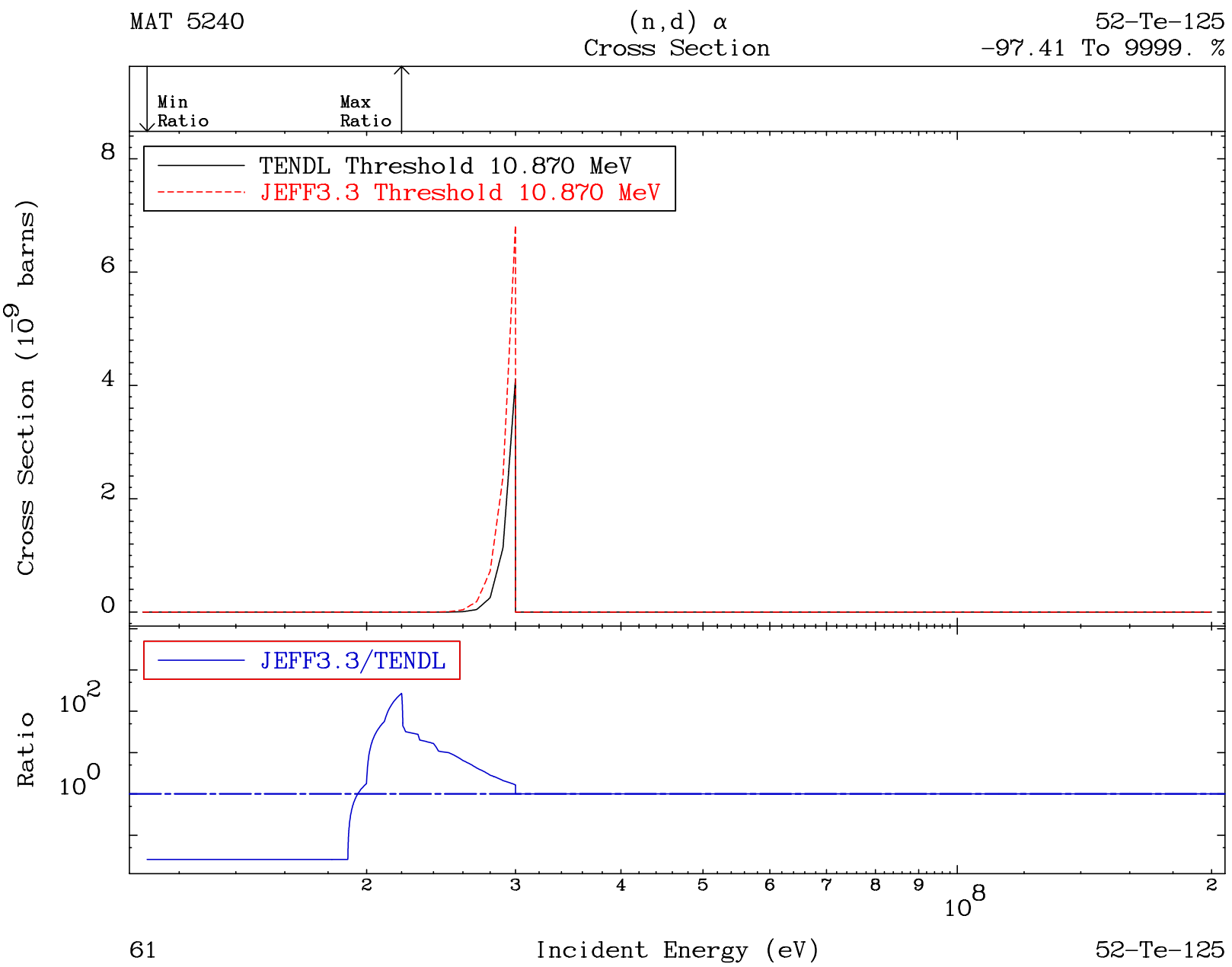

MAT 5240
(n,2α)
Cross Section
52-Te-125
0.000 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.7750 keV
JEFF3.3 Threshold 10.355 keV
Cross Section ($10^{-9}$ barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
$10^3$
$10^2$
$10^1$
$10^0$
$10^4$
$10^5$
$10^6$
$10^7$
$10^8$
Incident Energy (eV)
56
52-Te-125

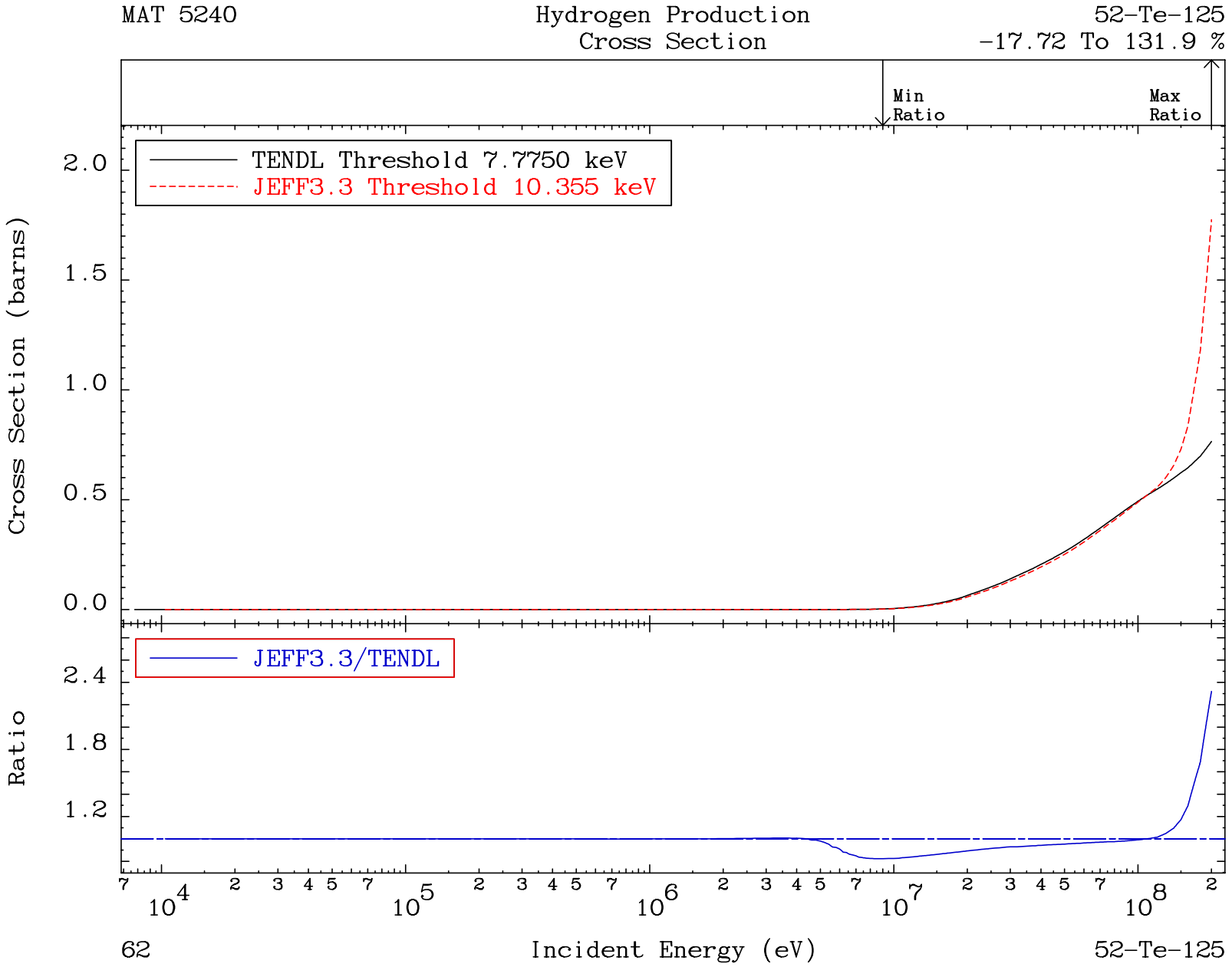

MAT 5240
(n,2p)
Cross Section
52-Te-125
-11.48 To 37.10 %
Max Ratio
Min Ratio
TENDL Threshold 7.3559 MeV
JEFF3.3 Threshold 7.3543 MeV
Cross Section (micro-barns)
35
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
57
Incident Energy (eV)
52-Te-125

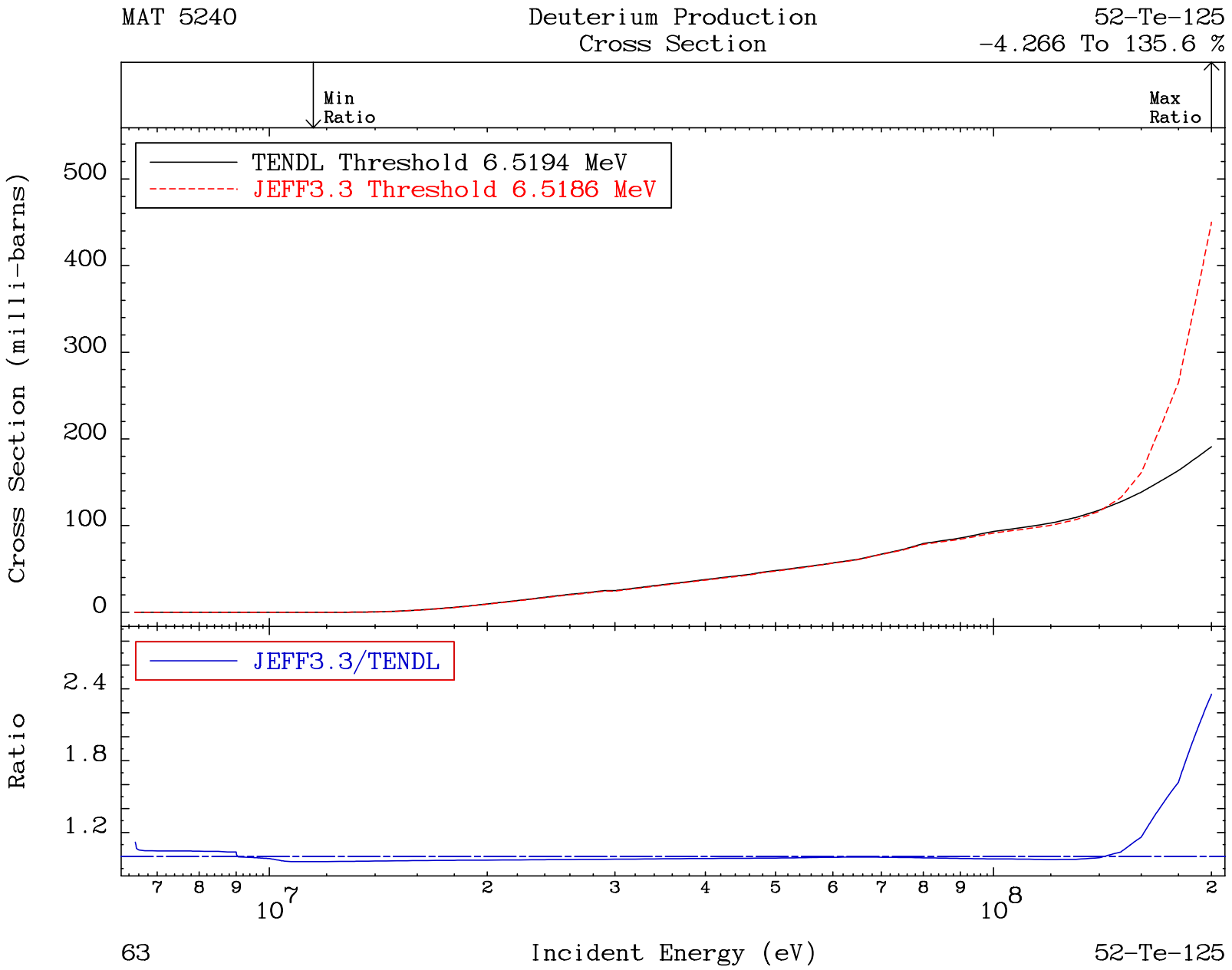

MAT 5240
(n,p) α
Cross Section
52-Te-125
-82.21 To 8197. %
Min Ratio
Max Ratio
TENDL Threshold 4.8688 MeV
JEFF3.3 Threshold 4.8688 MeV
Cross Section (micro-barns)
0.0
0.2
0.4
0.6
0.8
JEFF3.3/TENDL
Ratio
10^0
10^1
10^2
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
58
Incident Energy (eV)
52-Te-125

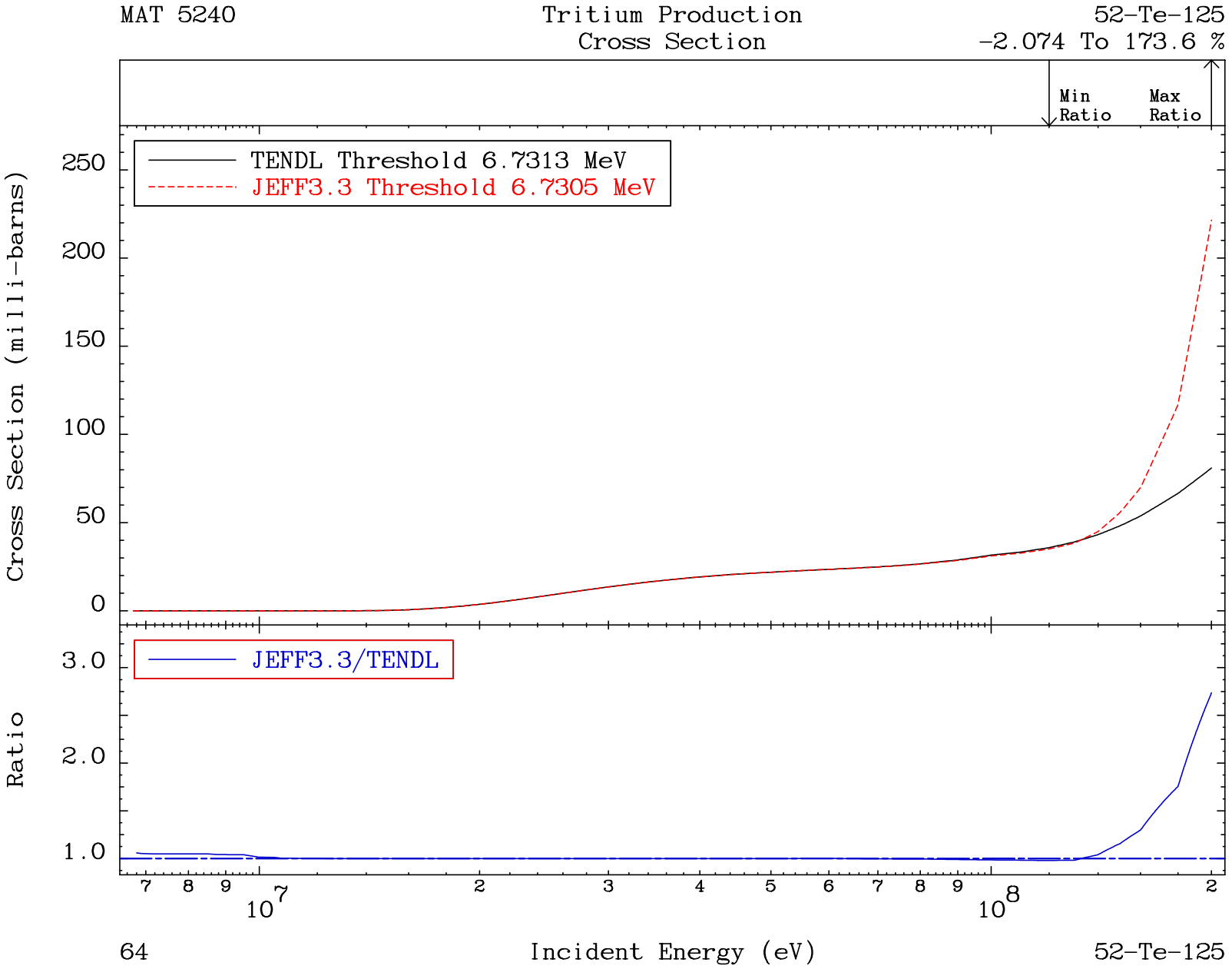

MAT 5240
(n,p) d
Cross Section
52-Te-125
-9.828 To 193.0 %
Max Ratio
Min Ratio
TENDL Threshold 13.670 MeV
JEFF3.3 Threshold 13.670 MeV
Cross Section ($10^{-9}$ barns)
350
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
9
$10^8$
2
59
Incident Energy (eV)
52-Te-125

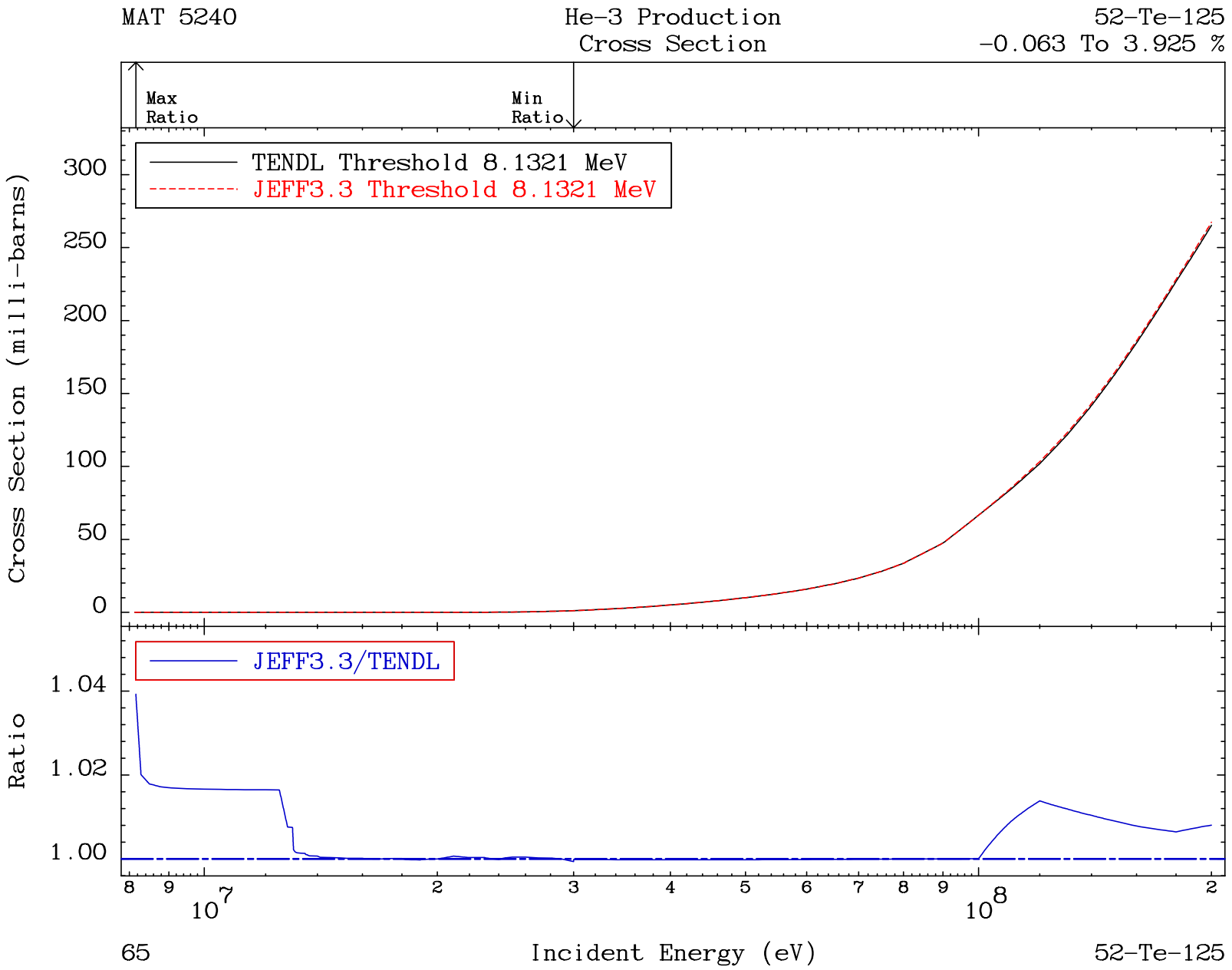

MAT 5240
(n,p) t
Cross Section
52-Te-125
-5.008 To 236.1 %
Max Ratio
Min Ratio
TENDL Threshold 13.356 MeV
JEFF3.3 Threshold 13.356 MeV
Cross Section ($10^{-9}$ barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
4.0
3.0
2.0
1.0
2
3
4
5
6
7
8
9
$10^8$
2
60
Incident Energy (eV)
52-Te-125

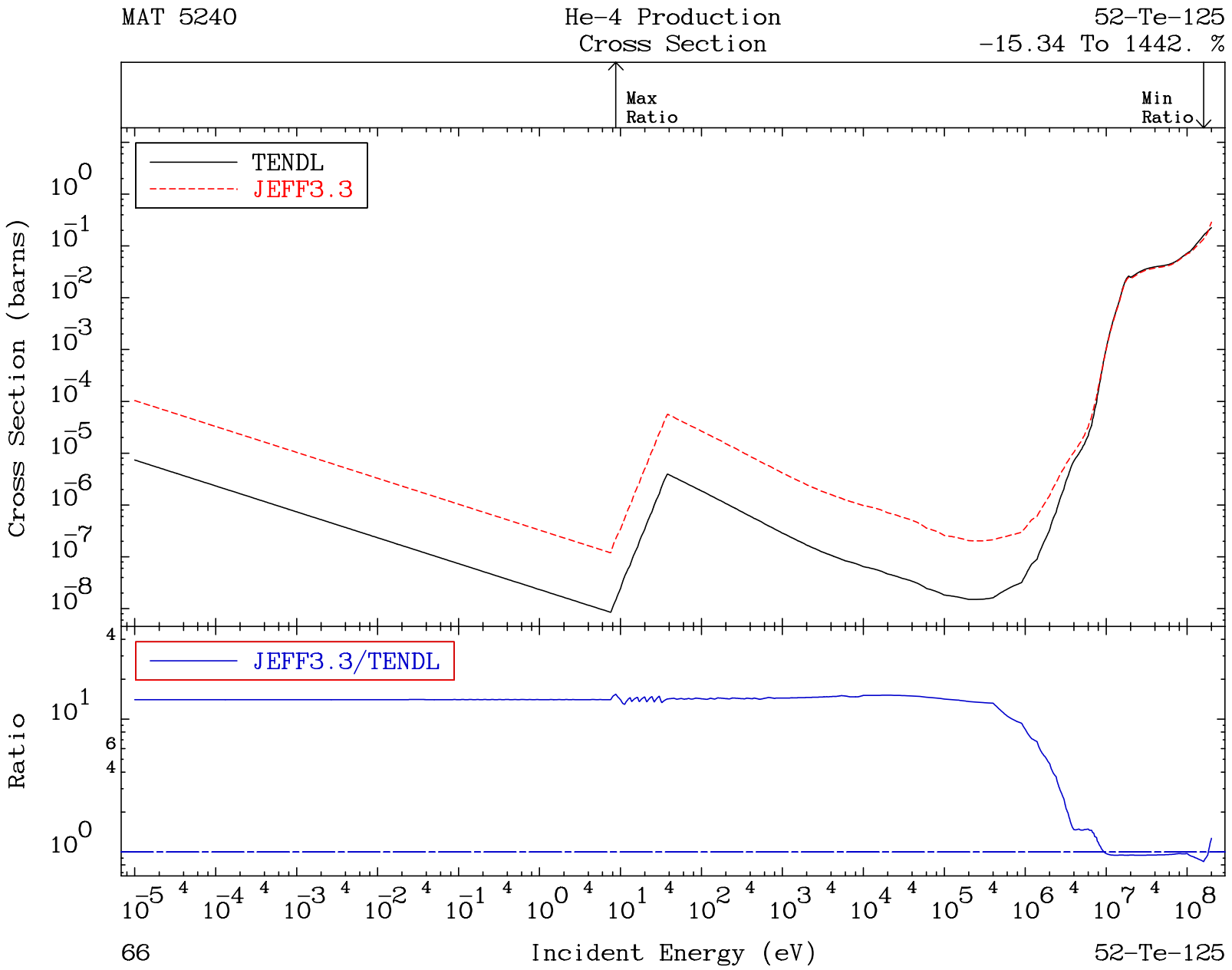

MAT 5240
(n,d) α
Cross Section
52-Te-125
-97.41 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 10.870 MeV
JEFF3.3 Threshold 10.870 MeV
Cross Section ($10^{-9}$ barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
61
52-Te-125

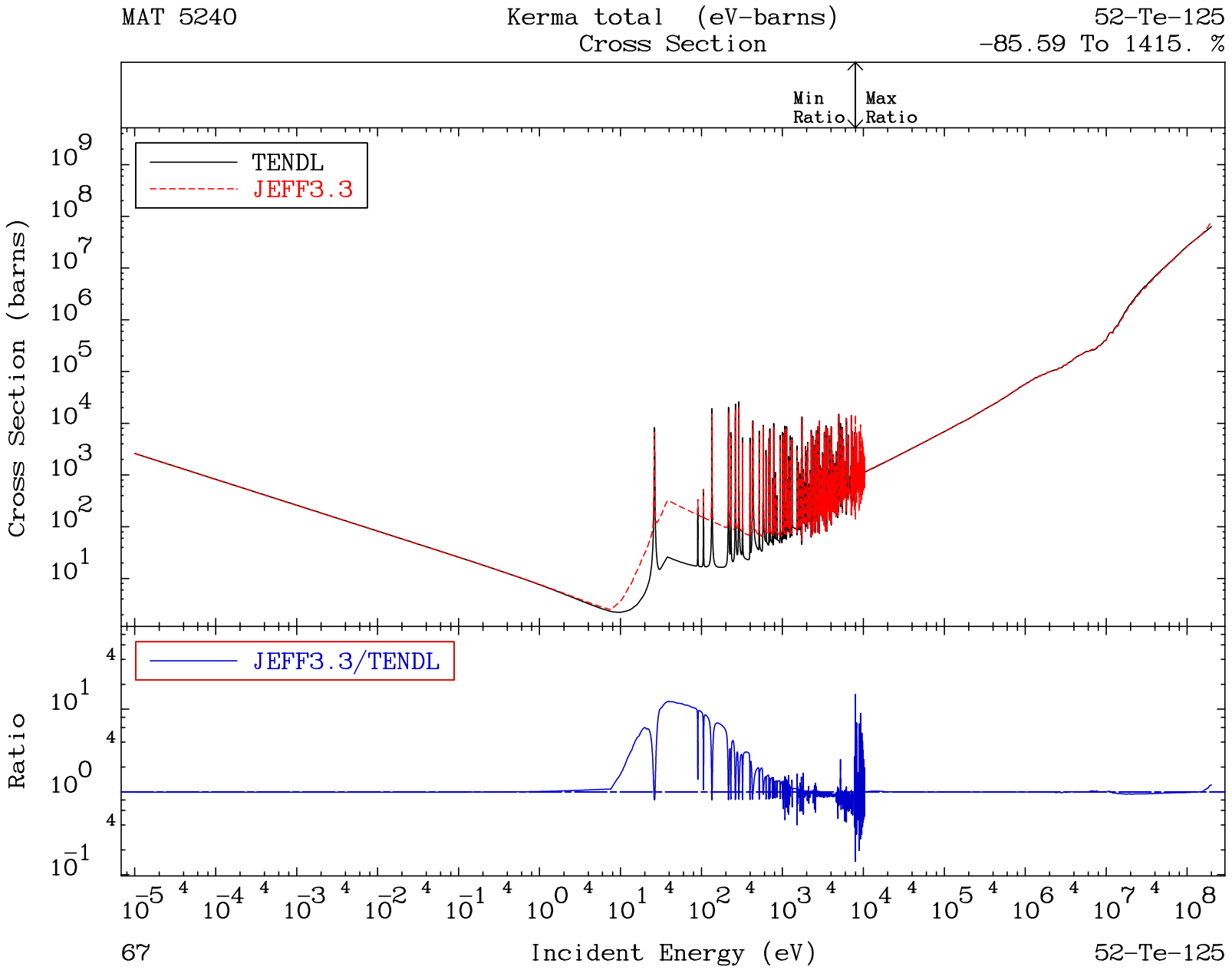

MAT 5240
Hydrogen Production
Cross Section
52-Te-125
-17.72 To 131.9 %
Min Ratio
Max Ratio
TENDL Threshold 7.7750 keV
JEFF3.3 Threshold 10.355 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
2.4
1.8
1.2
7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
62
Incident Energy (eV)
52-Te-125

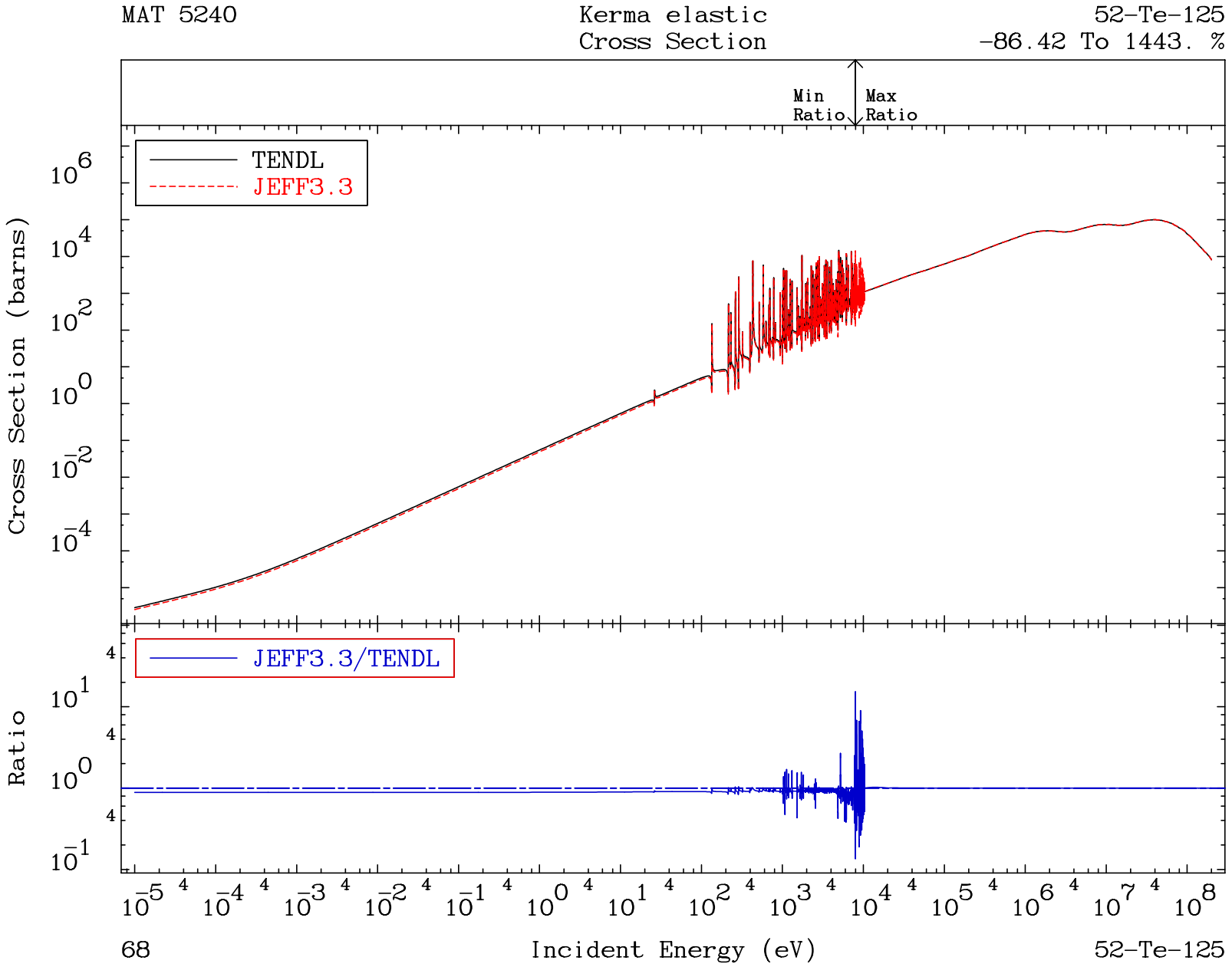

MAT 5240
Deuterium Production
Cross Section
52-Te-125
-4.266 To 135.6 %
Min
Ratio
Max
Ratio
TENDL Threshold 6.5194 MeV
JEFF3.3 Threshold 6.5186 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
2.4
1.8
1.2
7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
63
Incident Energy (eV)
52-Te-125

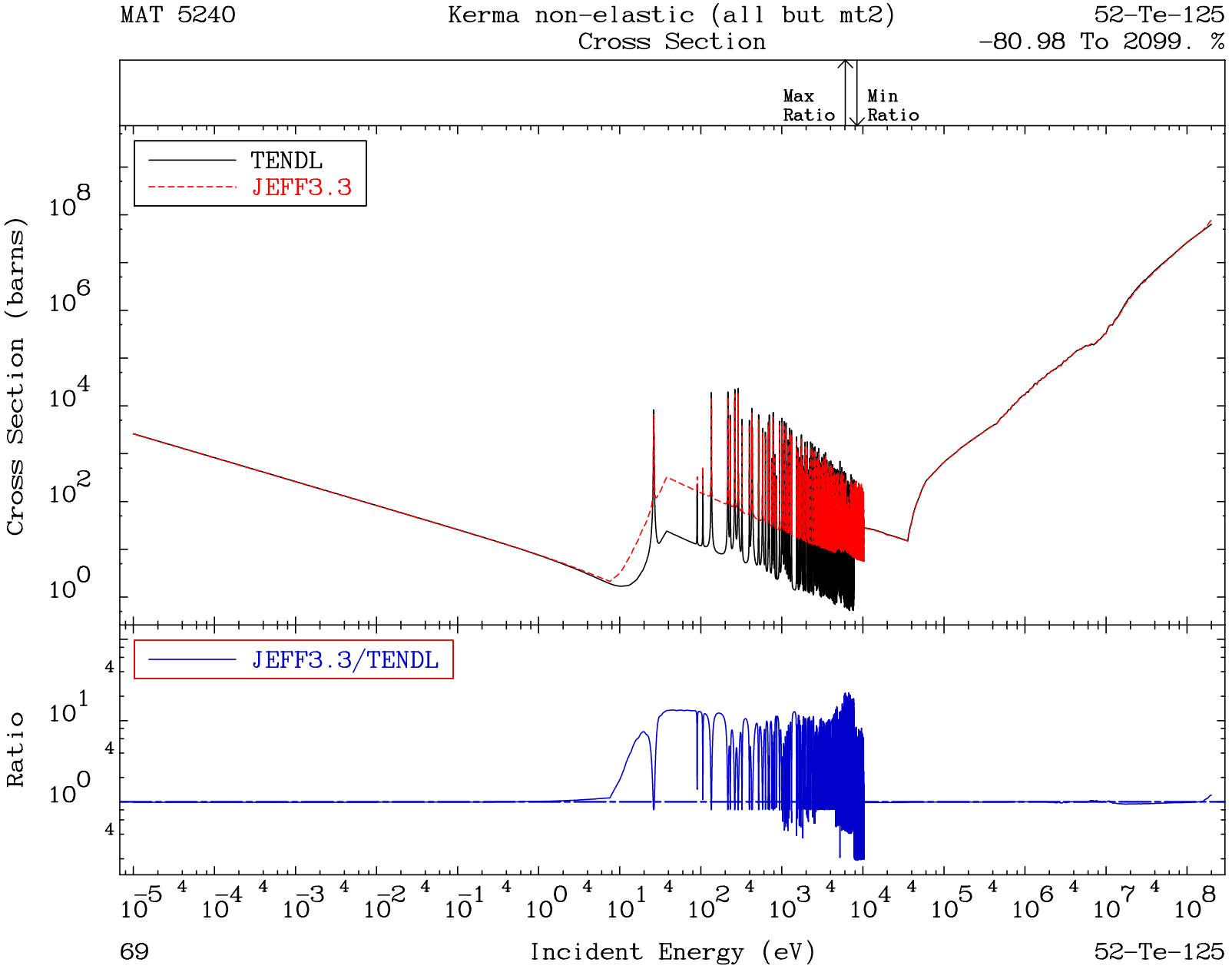

MAT 5240
Tritium Production
Cross Section
52-Te-125
-2.074 To 173.6 %
Min Ratio
Max Ratio
TENDL Threshold 6.7313 MeV
JEFF3.3 Threshold 6.7305 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
64
Incident Energy (eV)
52-Te-125

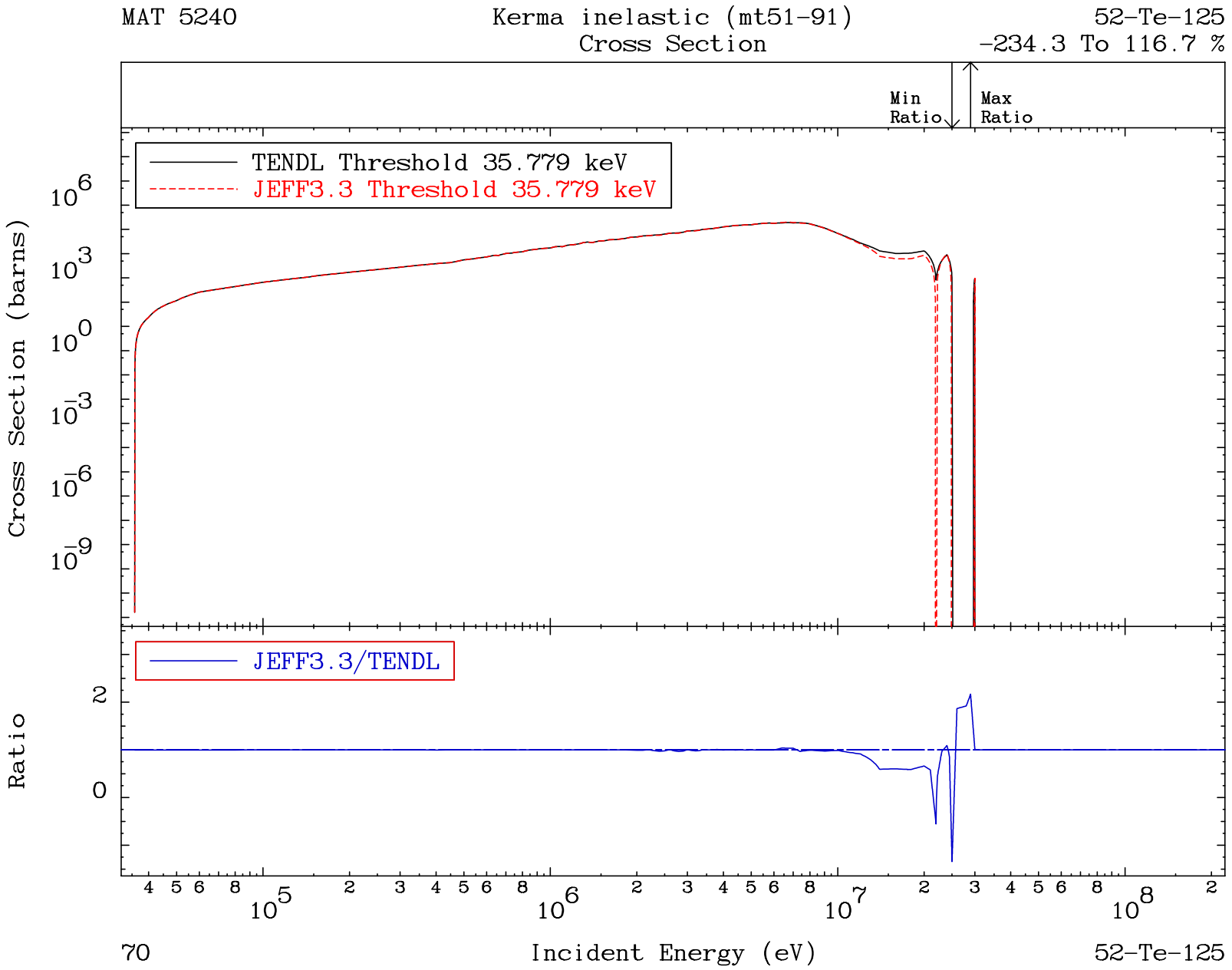

MAT 5240
He-3 Production
Cross Section
52-Te-125
-0.063 To 3.925 %
Max Ratio
Min Ratio
TENDL Threshold 8.1321 MeV
JEFF3.3 Threshold 8.1321 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.04
1.02
1.00
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
65
Incident Energy (eV)
52-Te-125

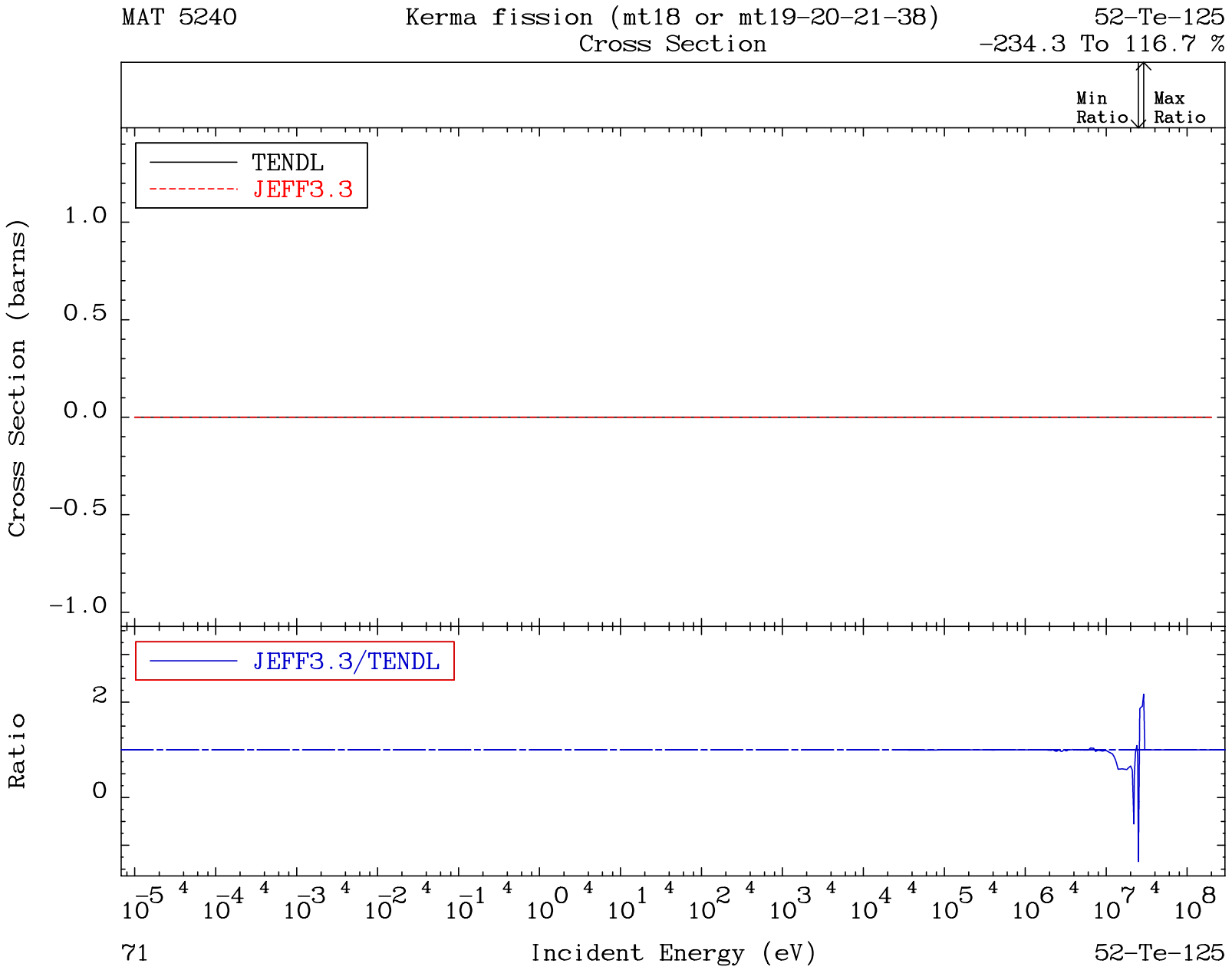

MAT 5240
He-4 Production
Cross Section
52-Te-125
-15.34 To 1442. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
66
52-Te-125

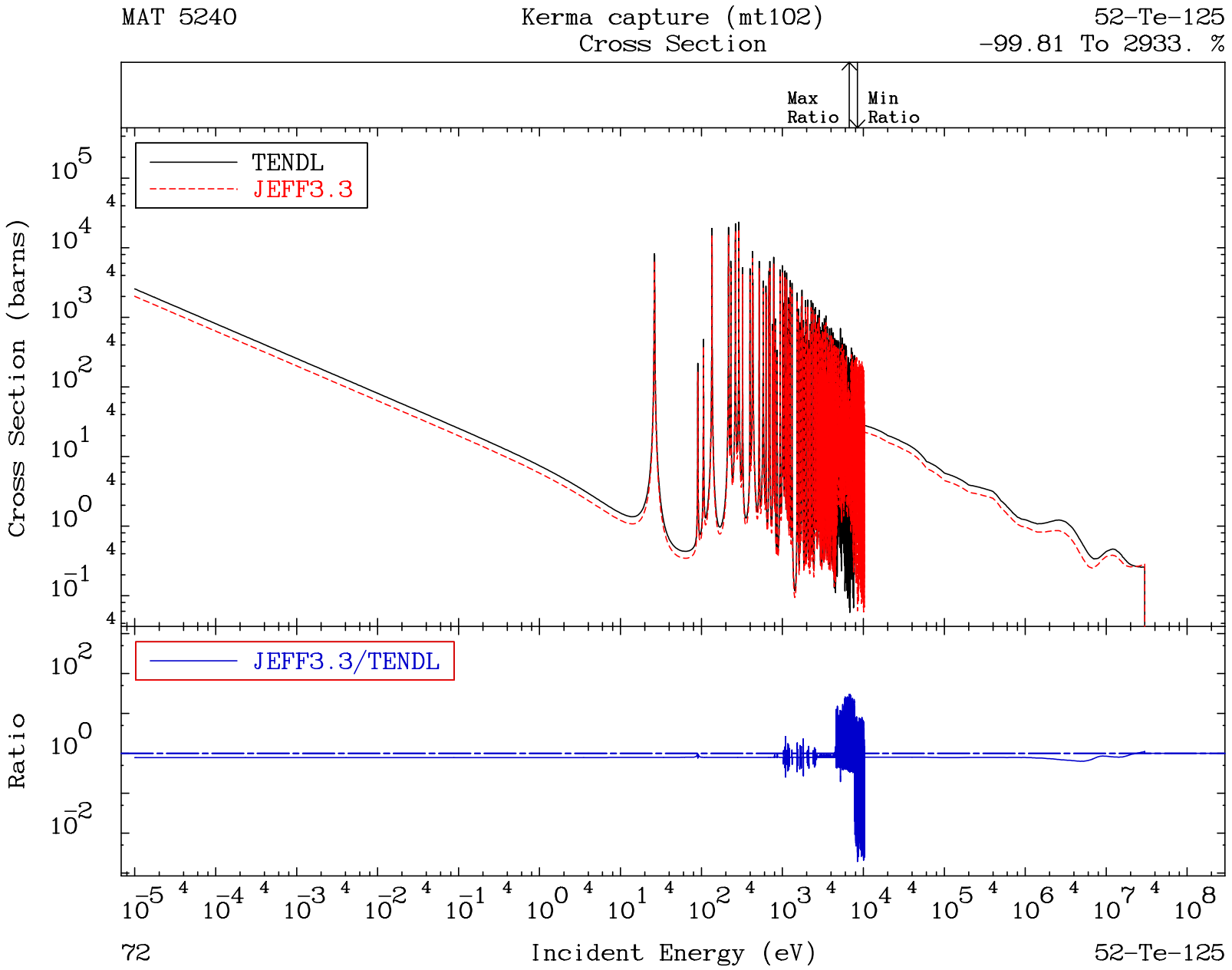

MAT 5240
Kerma total (eV-barns)
Cross Section
52-Te-125
-85.59 To 1415. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
67
52-Te-125

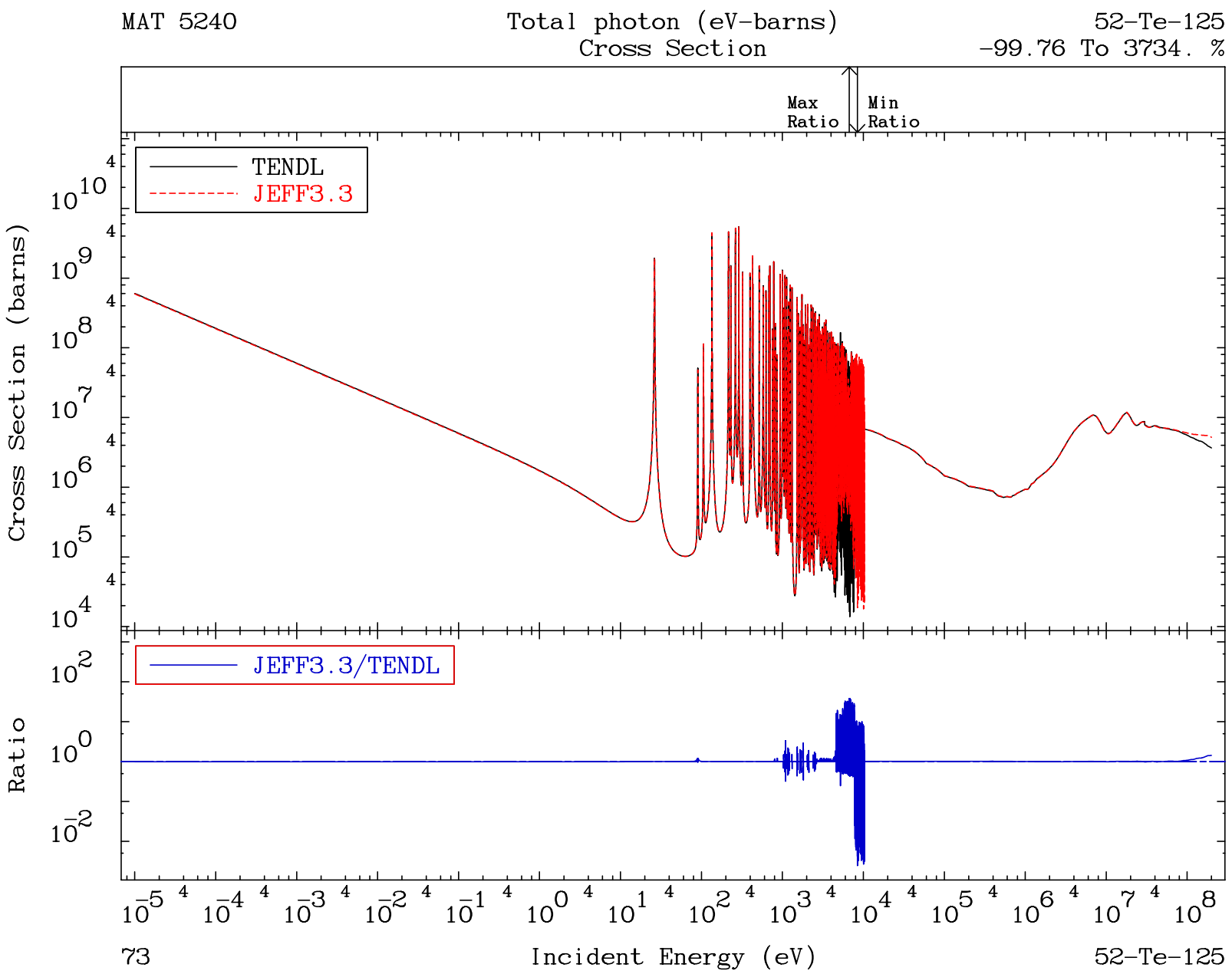

MAT 5240
Kerma elastic
Cross Section
52-Te-125
-86.42 To 1443. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
68
52-Te-125

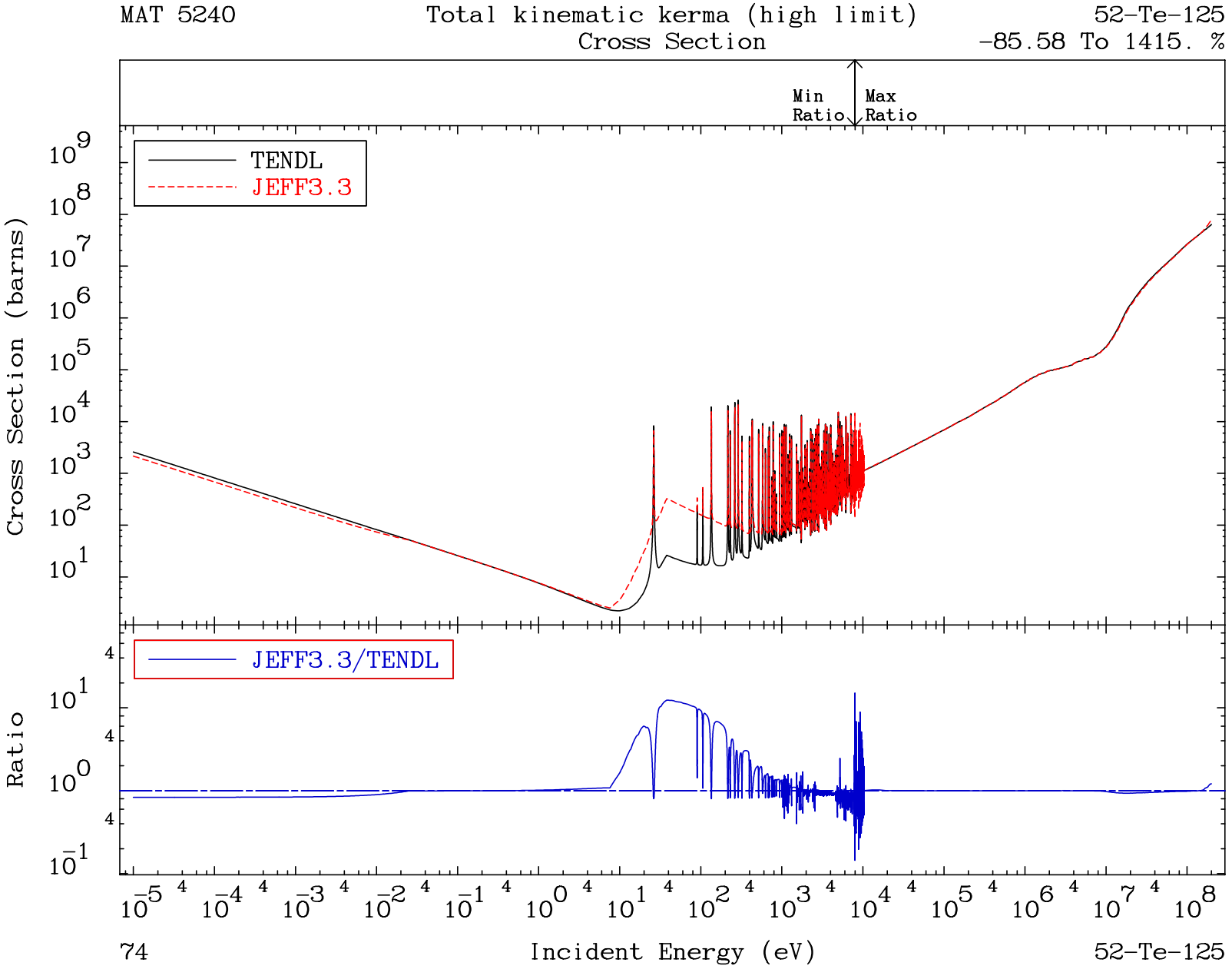

MAT 5240
Kerma non-elastic (all but mt2)
Cross Section
52-Te-125
-80.98 To 2099. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
69
52-Te-125

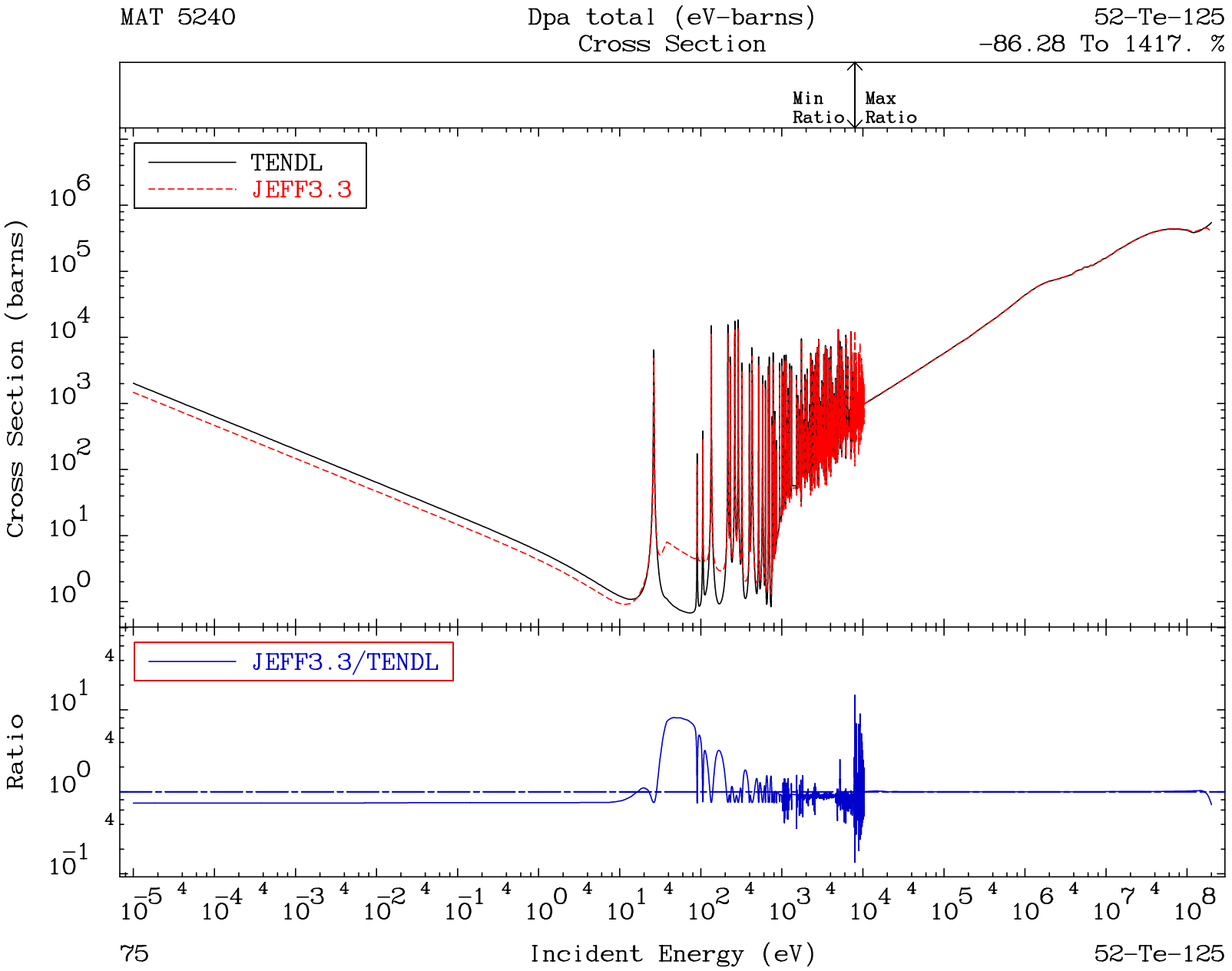

MAT 5240
Kerma inelastic (mt51-91)
Cross Section
52-Te-125
-234.3 To 116.7 %
Min Ratio
Max Ratio
TENDL Threshold 35.779 keV
JEFF3.3 Threshold 35.779 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
70
52-Te-125

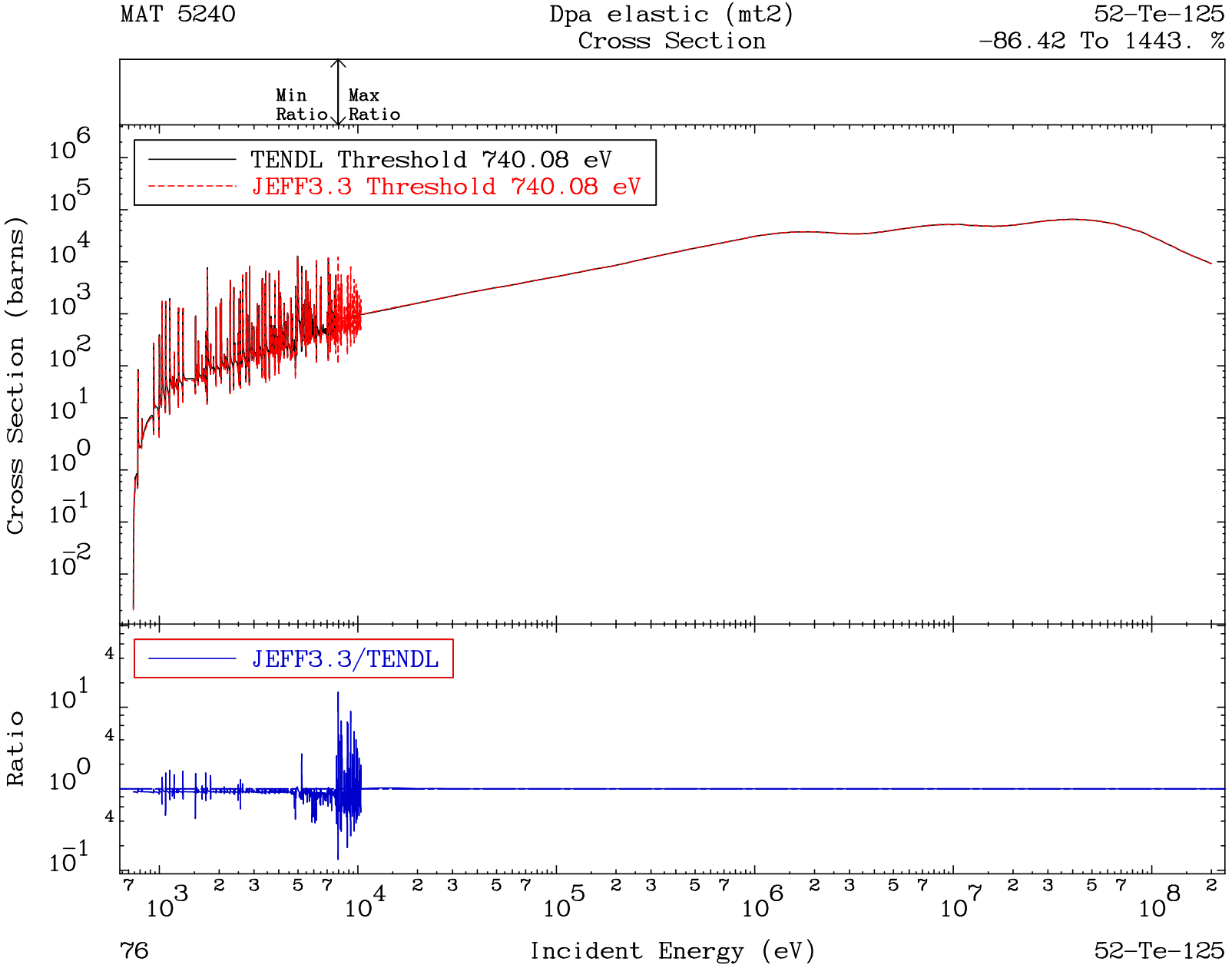

MAT 5240
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
52-Te-125
-234.3 To 116.7 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JEFF3.3/TENDL
Ratio
2
0
$10^{-5}$ $10^{-4}$ $10^{-3}$ $10^{-2}$ $10^{-1}$ $10^{0}$ $10^{1}$ $10^{2}$ $10^{3}$ $10^{4}$ $10^{5}$ $10^{6}$ $10^{7}$ $10^{8}$
71
Incident Energy (eV)
52-Te-125

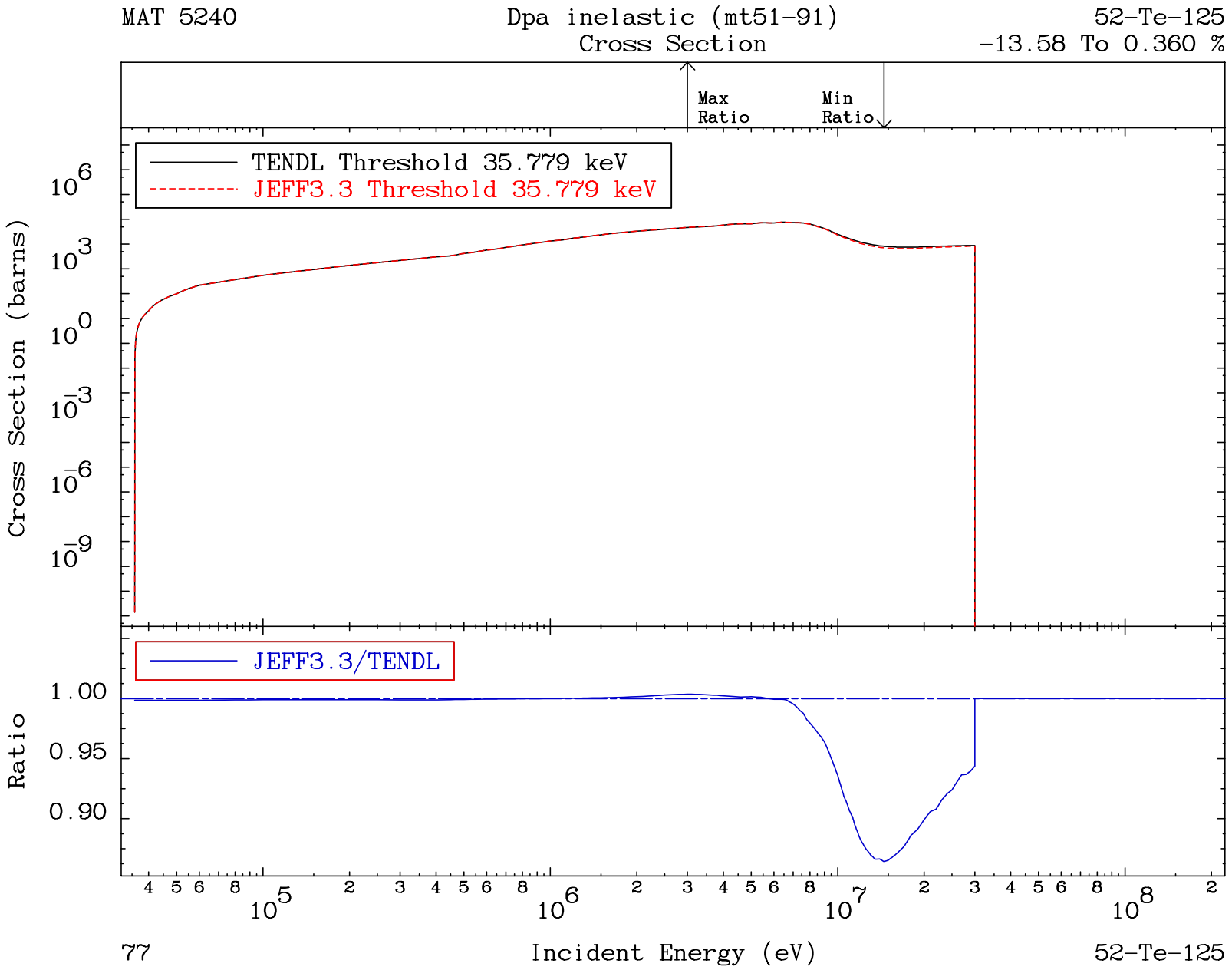

MAT 5240
Kerma capture (mt102)
Cross Section
52-Te-125
-99.81 To 2933. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
72
52-Te-125

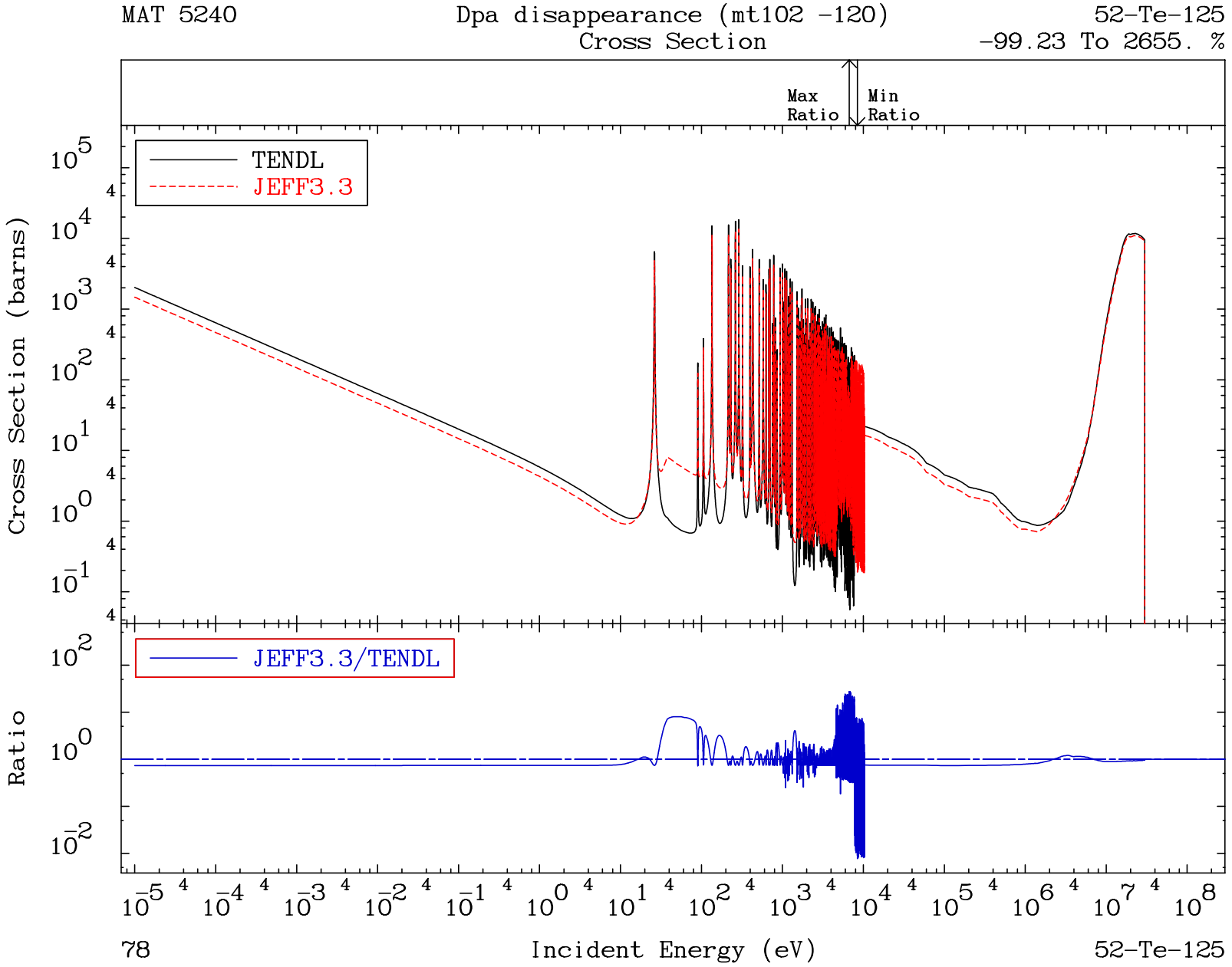

MAT 5240
Total photon (eV-barns)
Cross Section
52-Te-125
-99.76 To 3734. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
73
52-Te-125

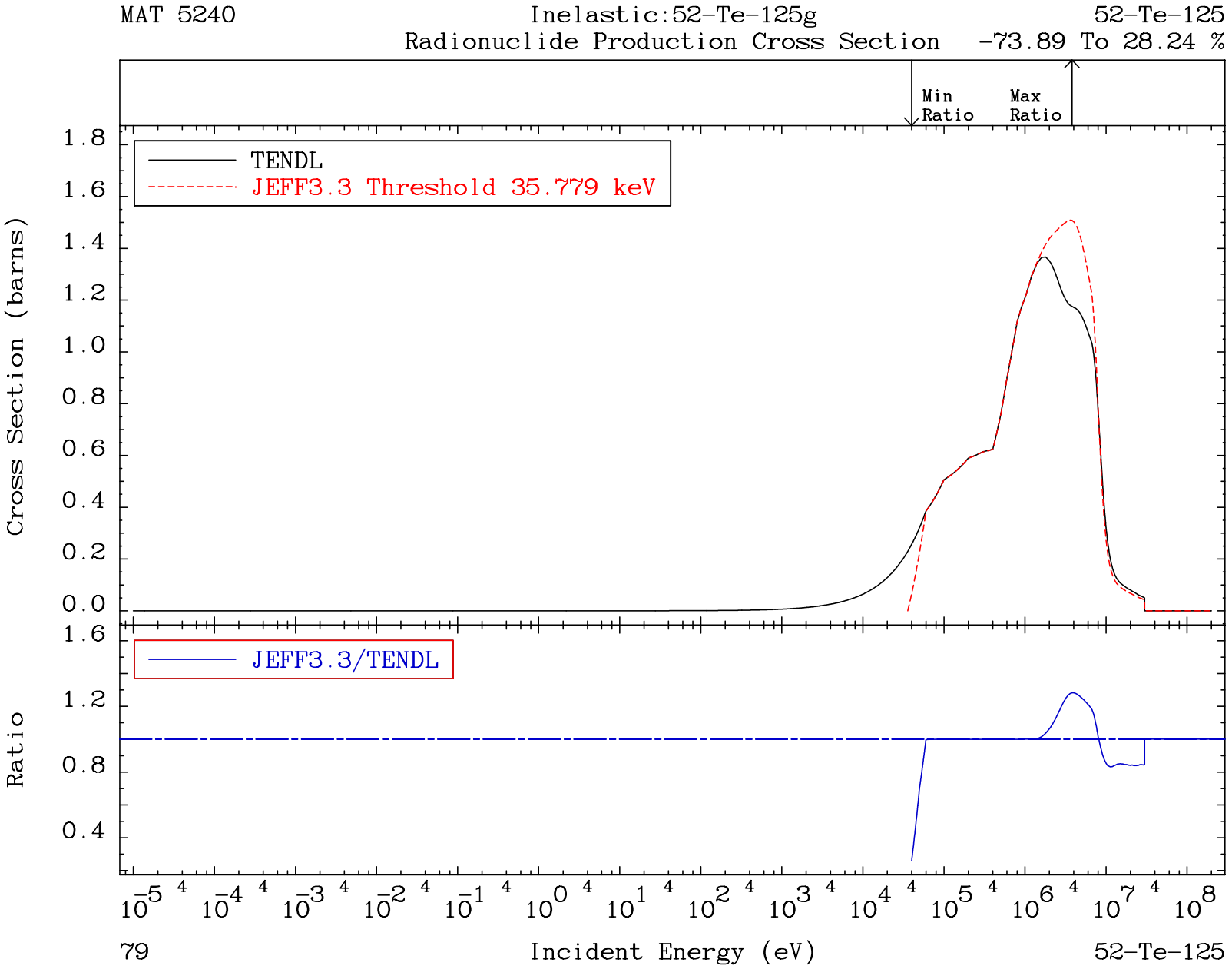

MAT 5240
Total kinematic kerma (high limit)
Cross Section
52-Te-125
-85.58 To 1415. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
74
52-Te-125

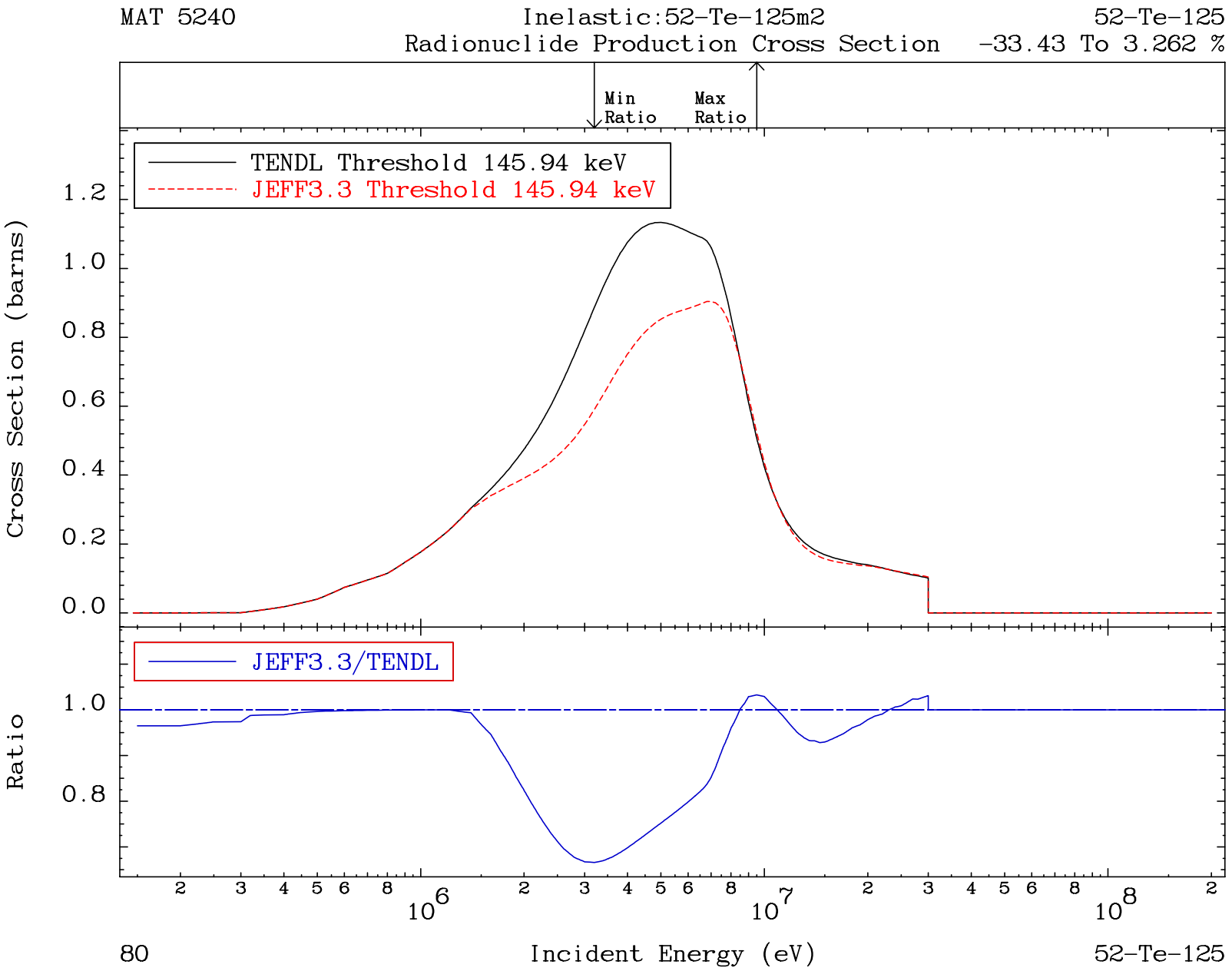

MAT 5240
Dpa total (eV-barns)
Cross Section
52-Te-125
-86.28 To 1417. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
75
52-Te-125

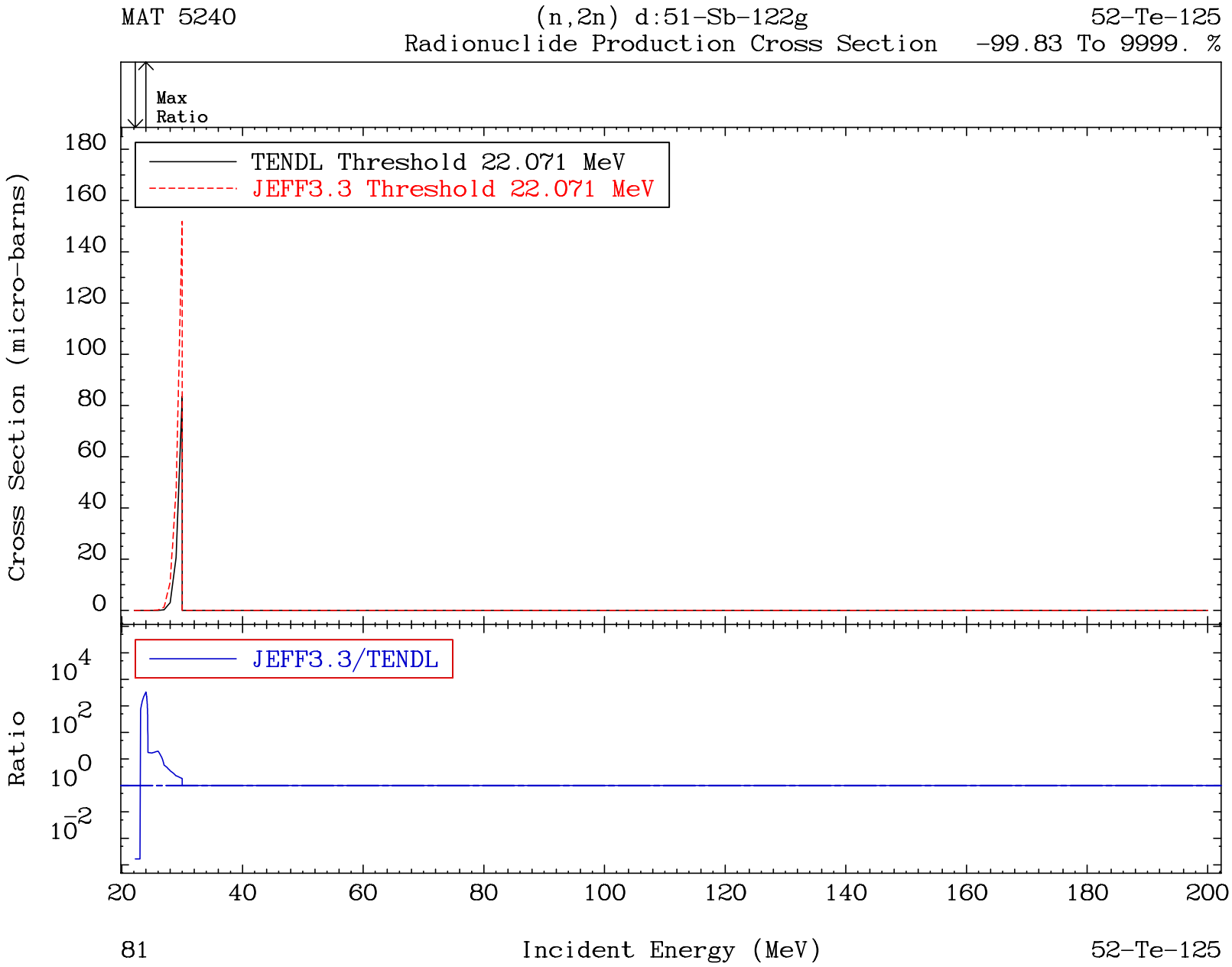

MAT 5240
Dpa elastic (mt2)
Cross Section
52-Te-125
-86.42 To 1443. %
Min Ratio
Max Ratio
TENDL Threshold 740.08 eV
JEFF3.3 Threshold 740.08 eV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
76
52-Te-125

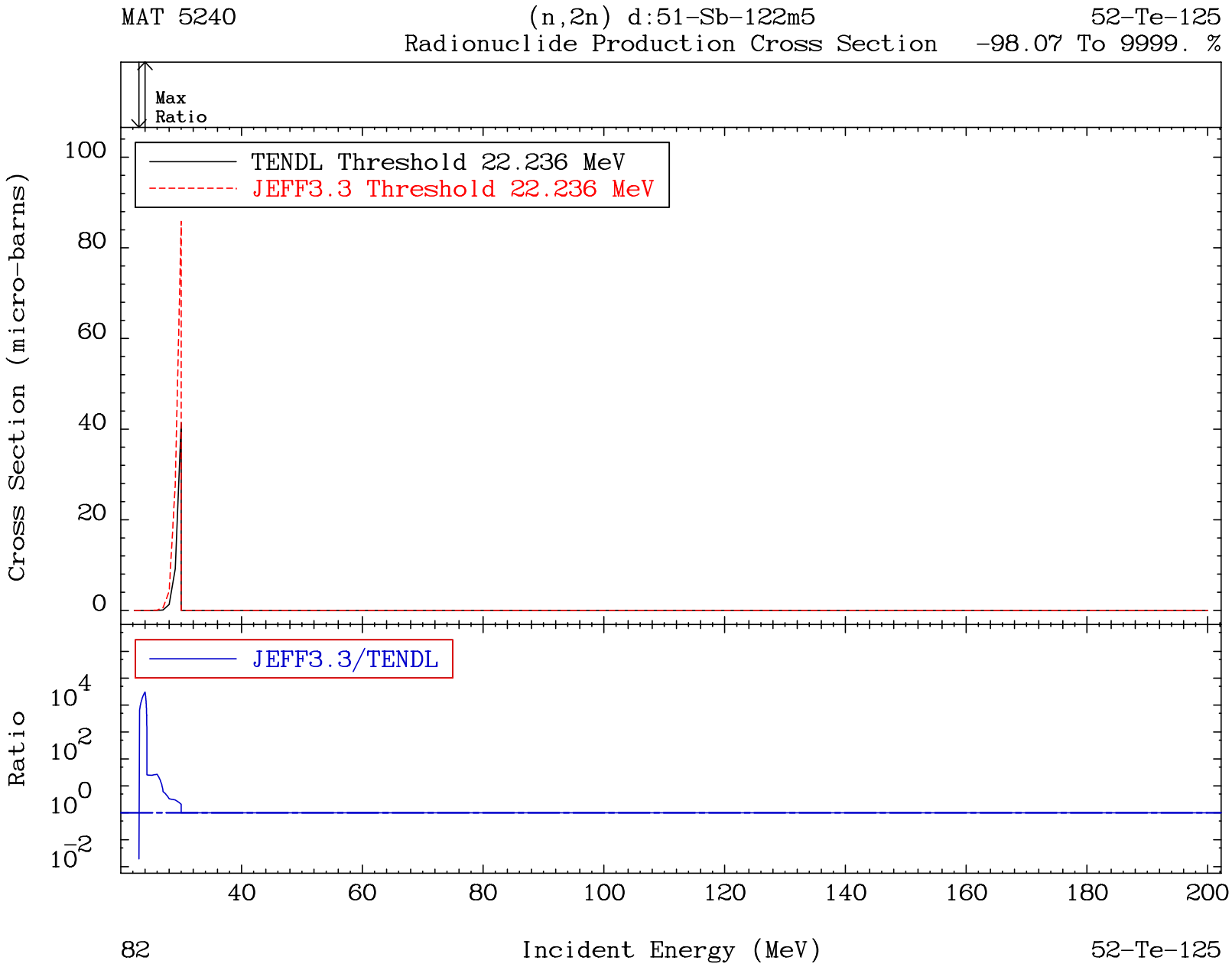

MAT 5240
Dpa inelastic (mt51-91)
Cross Section
52-Te-125
-13.58 To 0.360 %
Max Ratio
Min Ratio
TENDL Threshold 35.779 keV
JEFF3.3 Threshold 35.779 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
77
52-Te-125

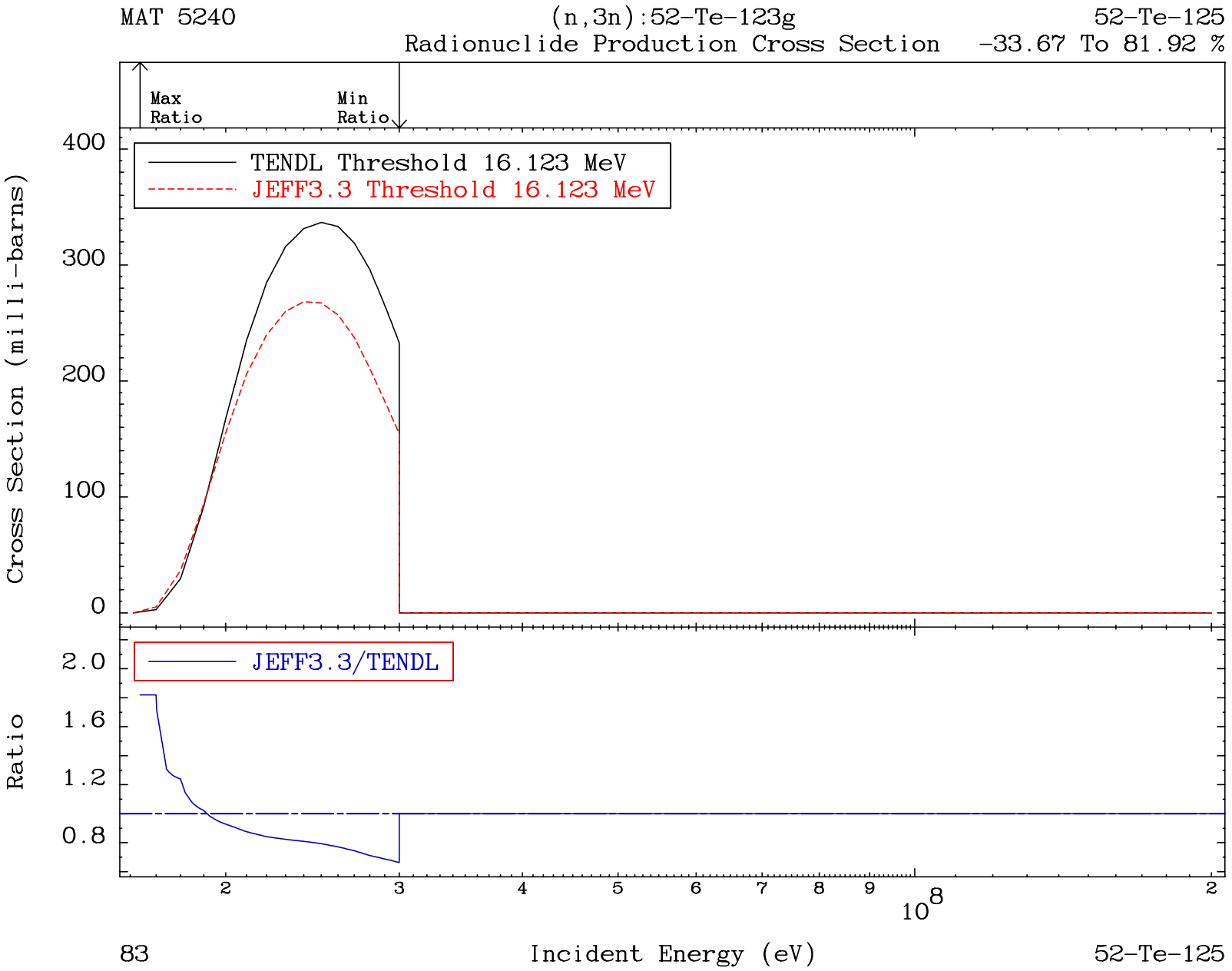

MAT 5240
Dpa disappearance (mt102 -120)
Cross Section
52-Te-125
-99.23 To 2655. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
78
52-Te-125

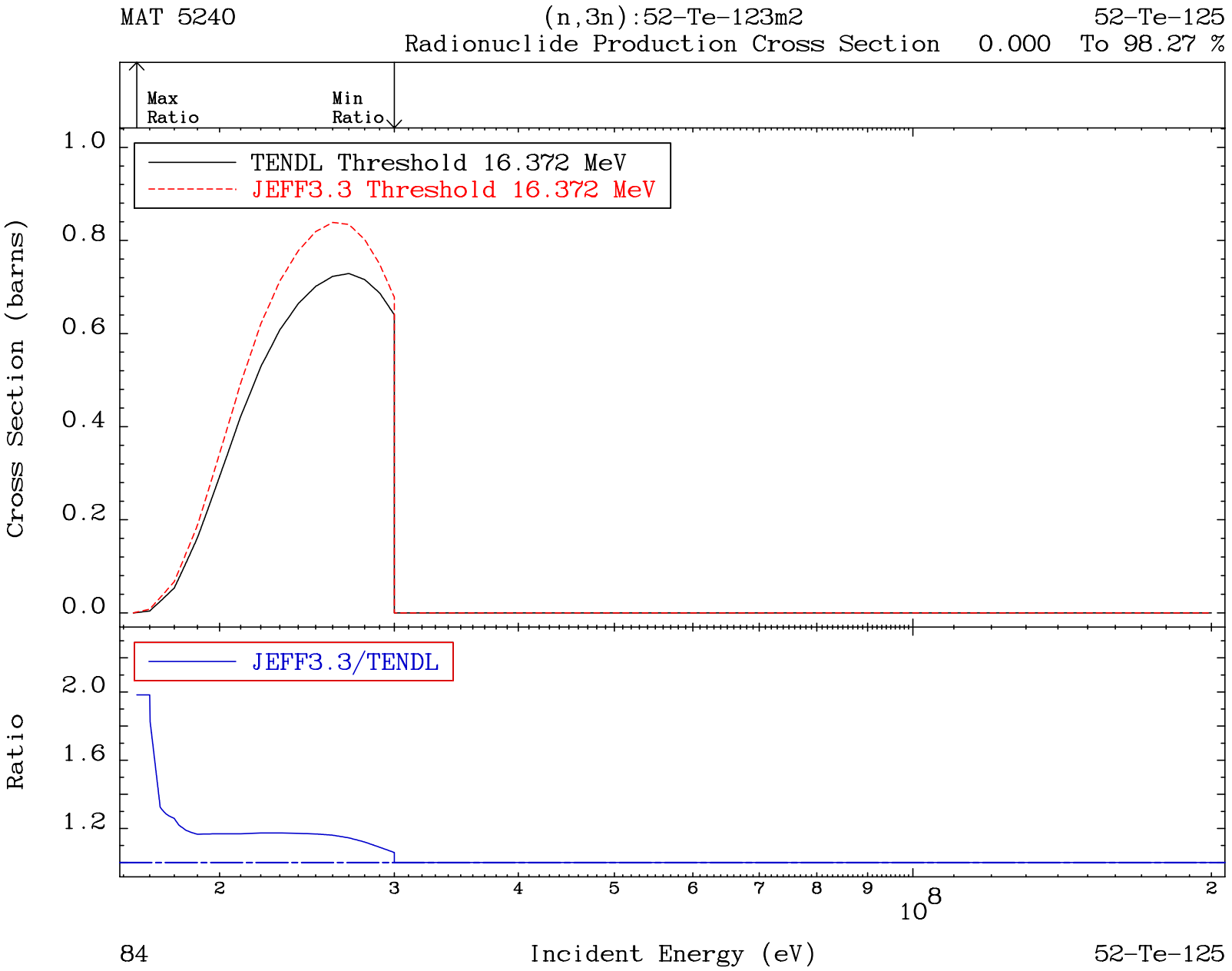

MAT 5240
Inelastic:52-Te-125g
52-Te-125
Radionuclide Production Cross Section
-73.89 To 28.24 %
Min Ratio
Max Ratio
TENDL
JEFF3.3 Threshold 35.779 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
79
52-Te-125

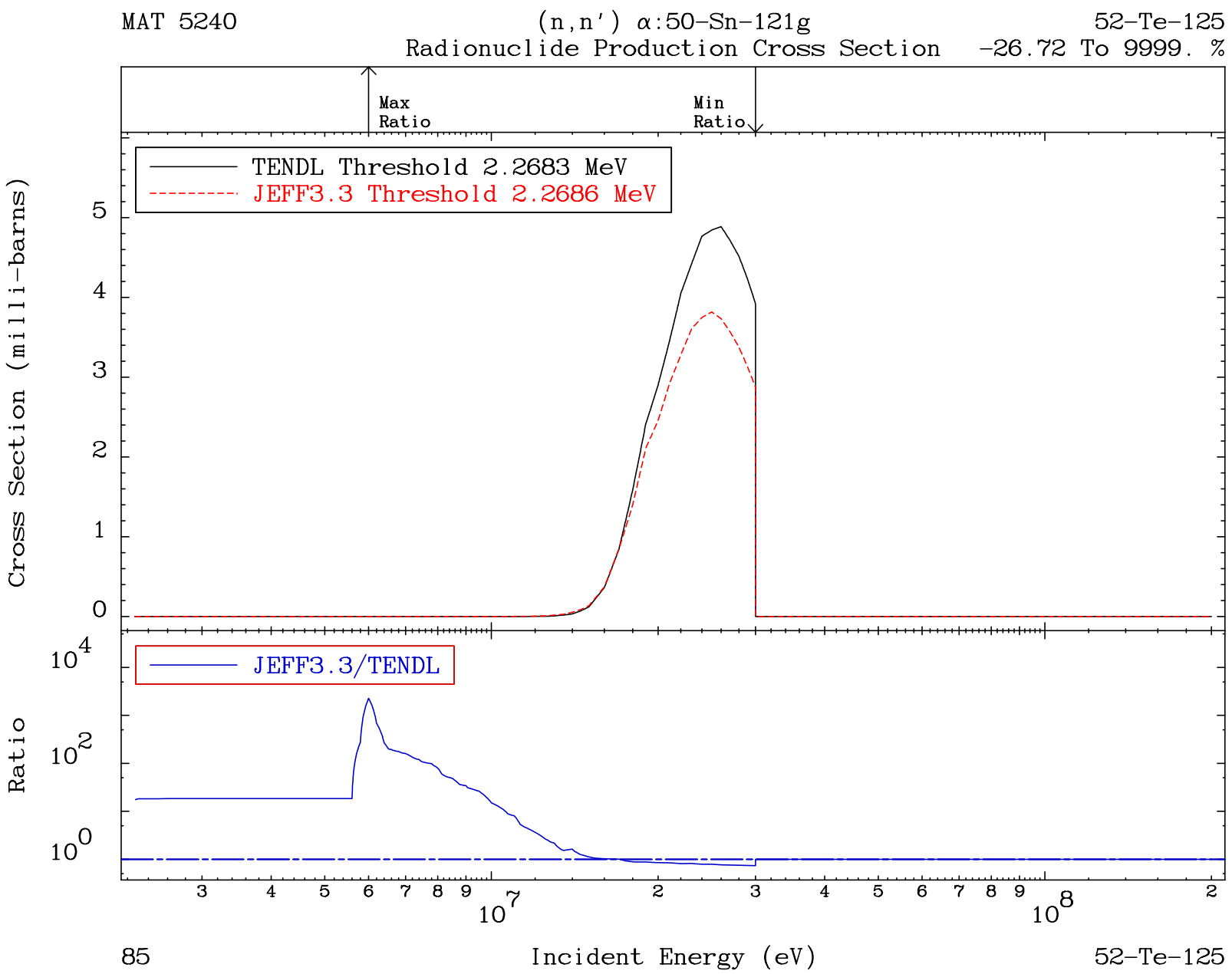

MAT 5240
Inelastic:52-Te-125m2
52-Te-125
Radionuclide Production Cross Section
-33.43 To 3.262 %
Min Ratio
Max Ratio
TENDL Threshold 145.94 keV
JEFF3.3 Threshold 145.94 keV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.0
0.8
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
80
Incident Energy (eV)
52-Te-125

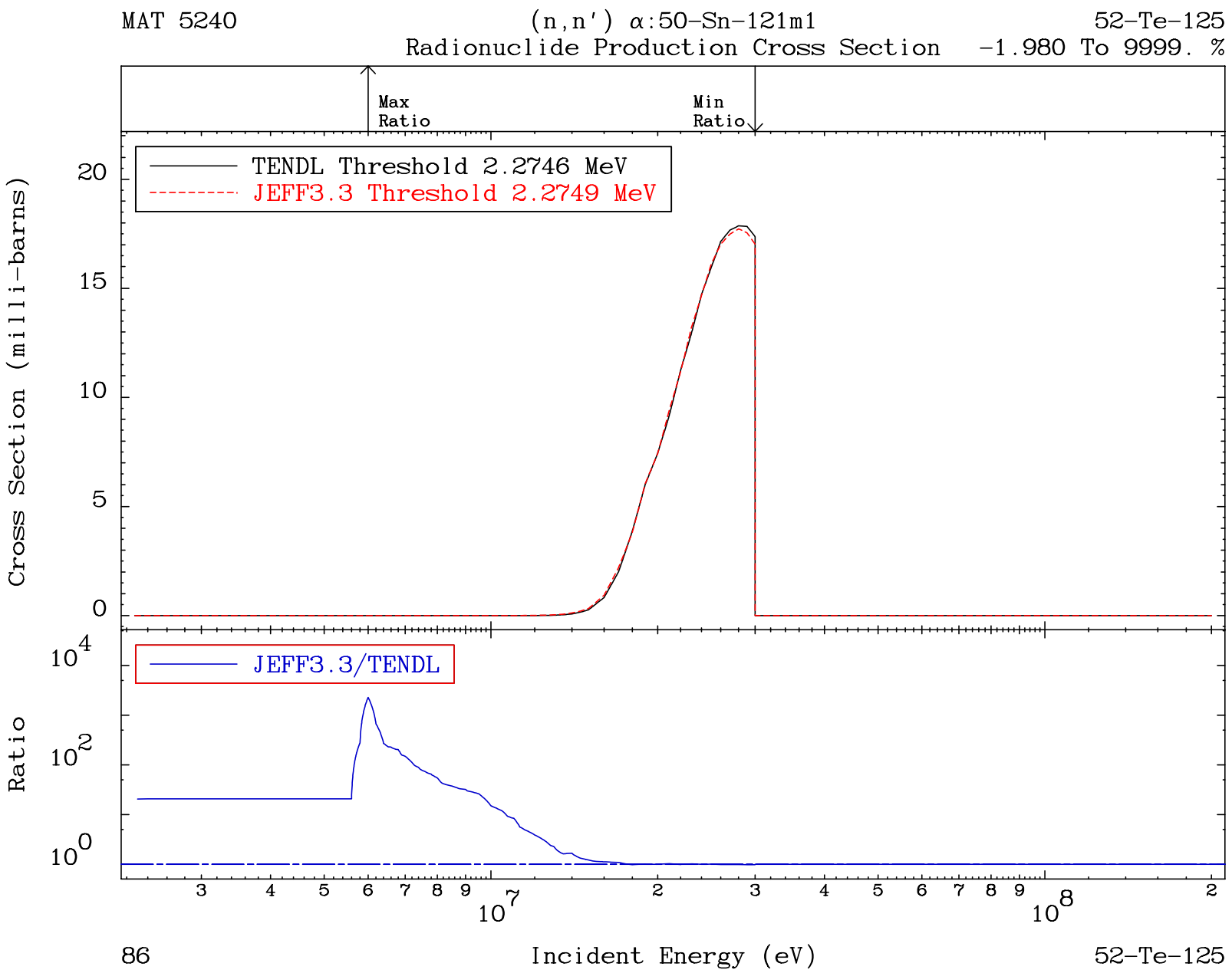

MAT 5240
(n,2n) d:51-Sb-122g
52-Te-125
Radionuclide Production Cross Section -99.83 To 9999. %
Max
Ratio
TENDL Threshold 22.071 MeV
JEFF3.3 Threshold 22.071 MeV
Cross Section (micro-barns)
180
160
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
10^-2
20
40
60
80
100
120
140
160
180
200
81
Incident Energy (MeV)
52-Te-125

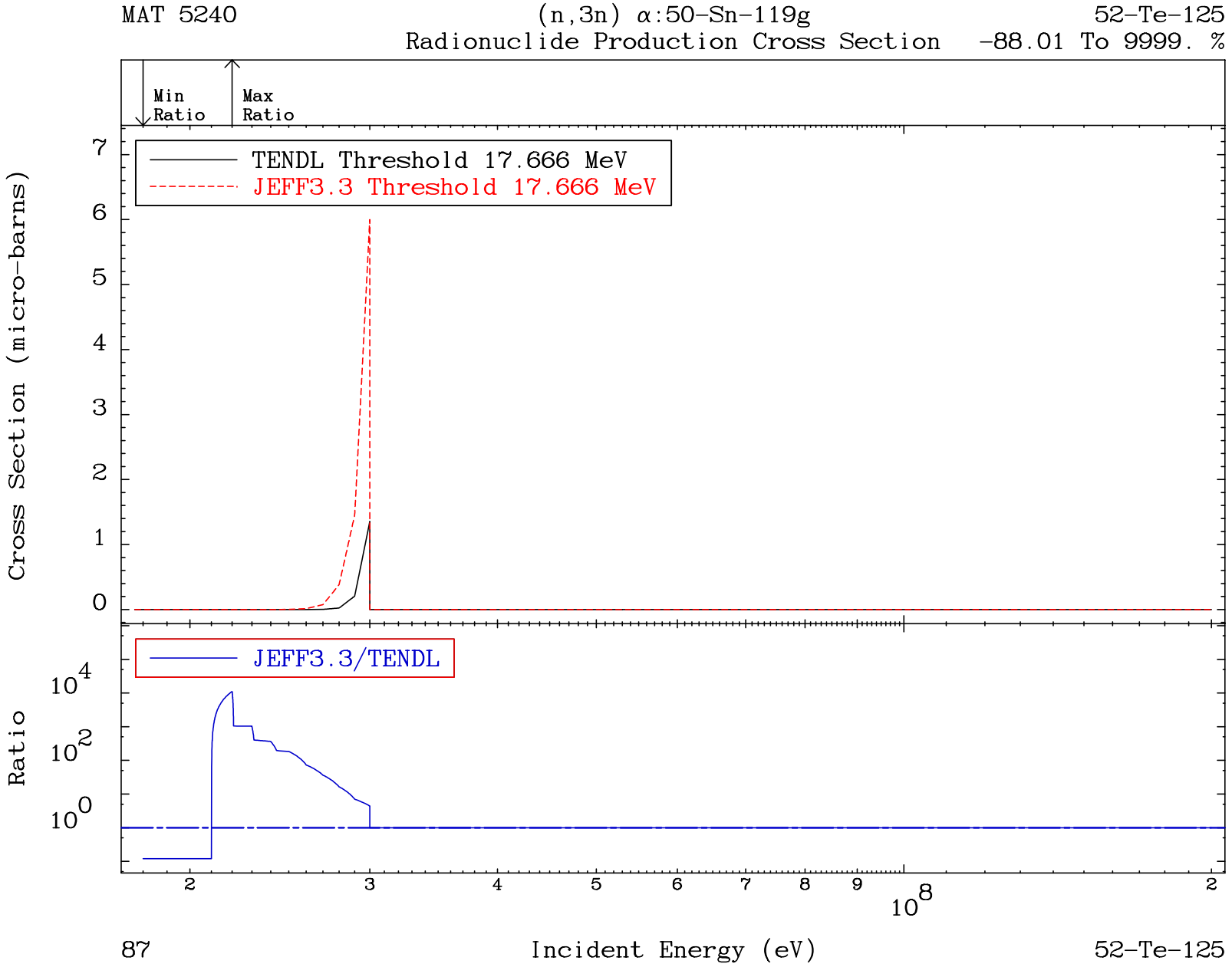

MAT 5240
(n,2n) d:51-Sb-122m5
52-Te-125
Radionuclide Production Cross Section -98.07 To 9999. %
Max Ratio
TENDL Threshold 22.236 MeV
JEFF3.3 Threshold 22.236 MeV
Cross Section (micro-barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
10^-2
40
60
80
100
120
140
160
180
200
82
Incident Energy (MeV)
52-Te-125

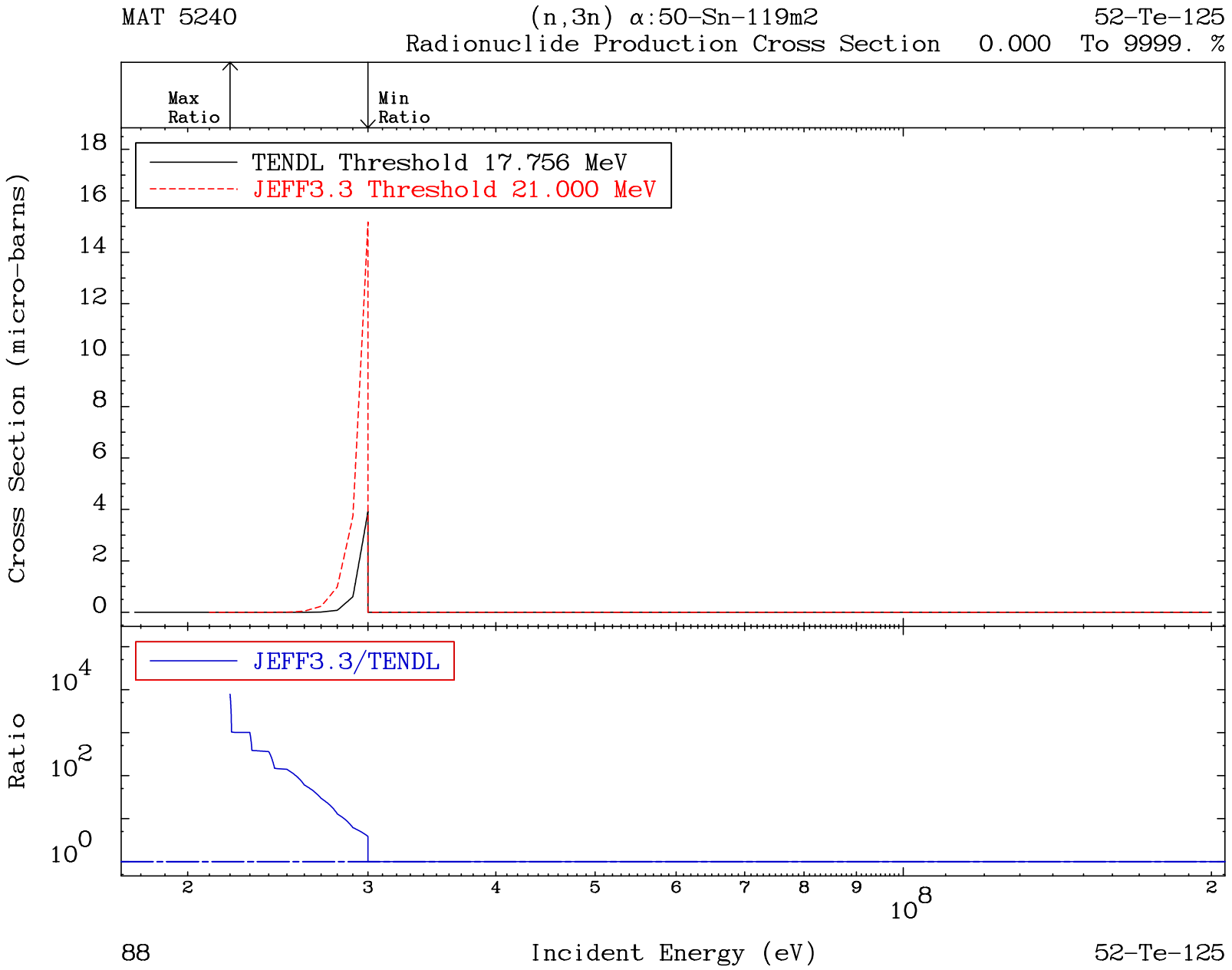

MAT 5240
(n,3n):52-Te-123g
52-Te-125
Radionuclide Production Cross Section
-33.67 To 81.92 %
Max Ratio
Min Ratio
TENDL Threshold 16.123 MeV
JEFF3.3 Threshold 16.123 MeV
Cross Section (milli-barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
2.0
1.6
1.2
0.8
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
52-Te-125

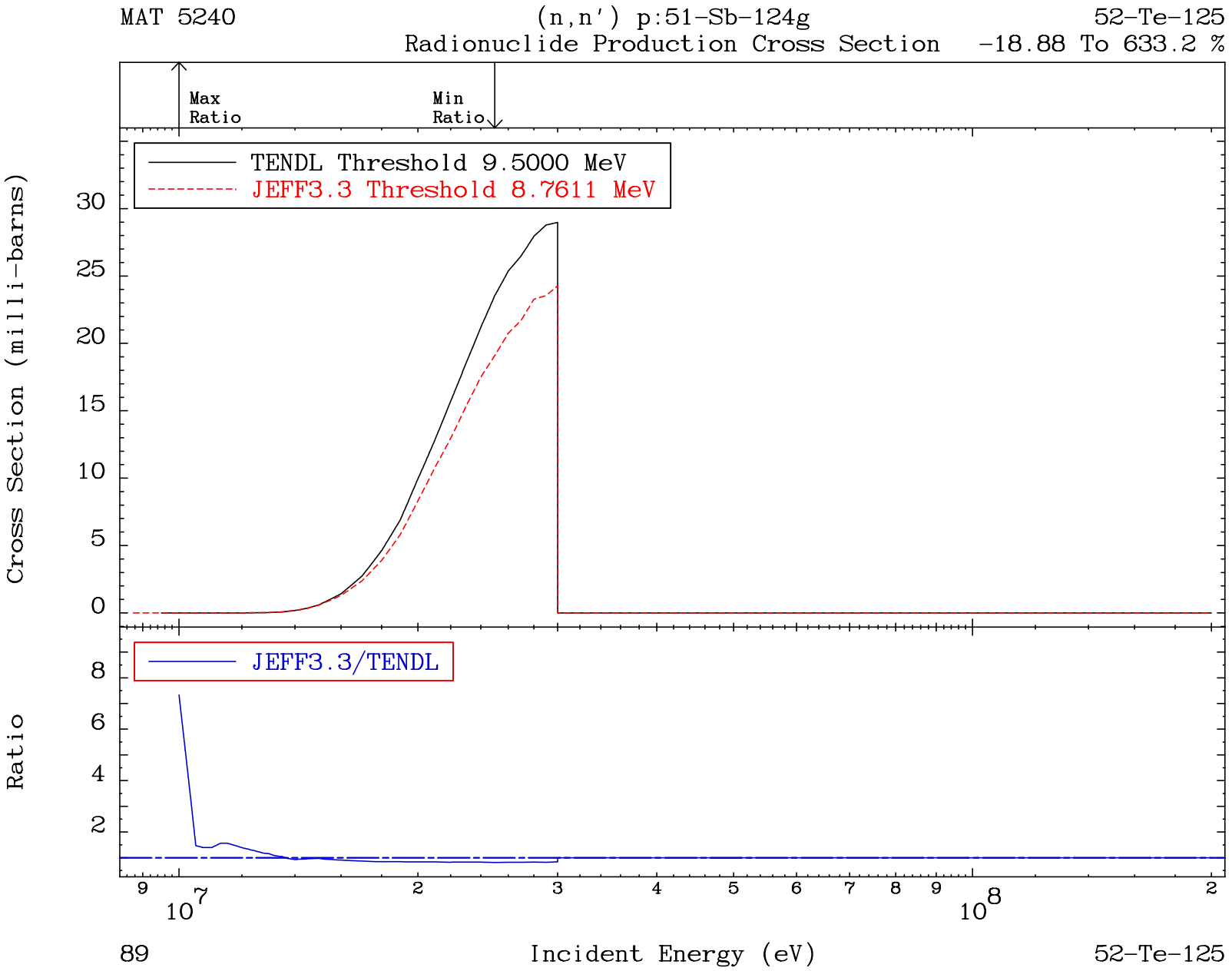

MAT 5240
(n,3n):52-Te-123m2
52-Te-125
Radionuclide Production Cross Section 0.000 To 98.27 %
Max Ratio
Min Ratio
TENDL Threshold 16.372 MeV
JEFF3.3 Threshold 16.372 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
2.0
1.6
1.2
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
52-Te-125

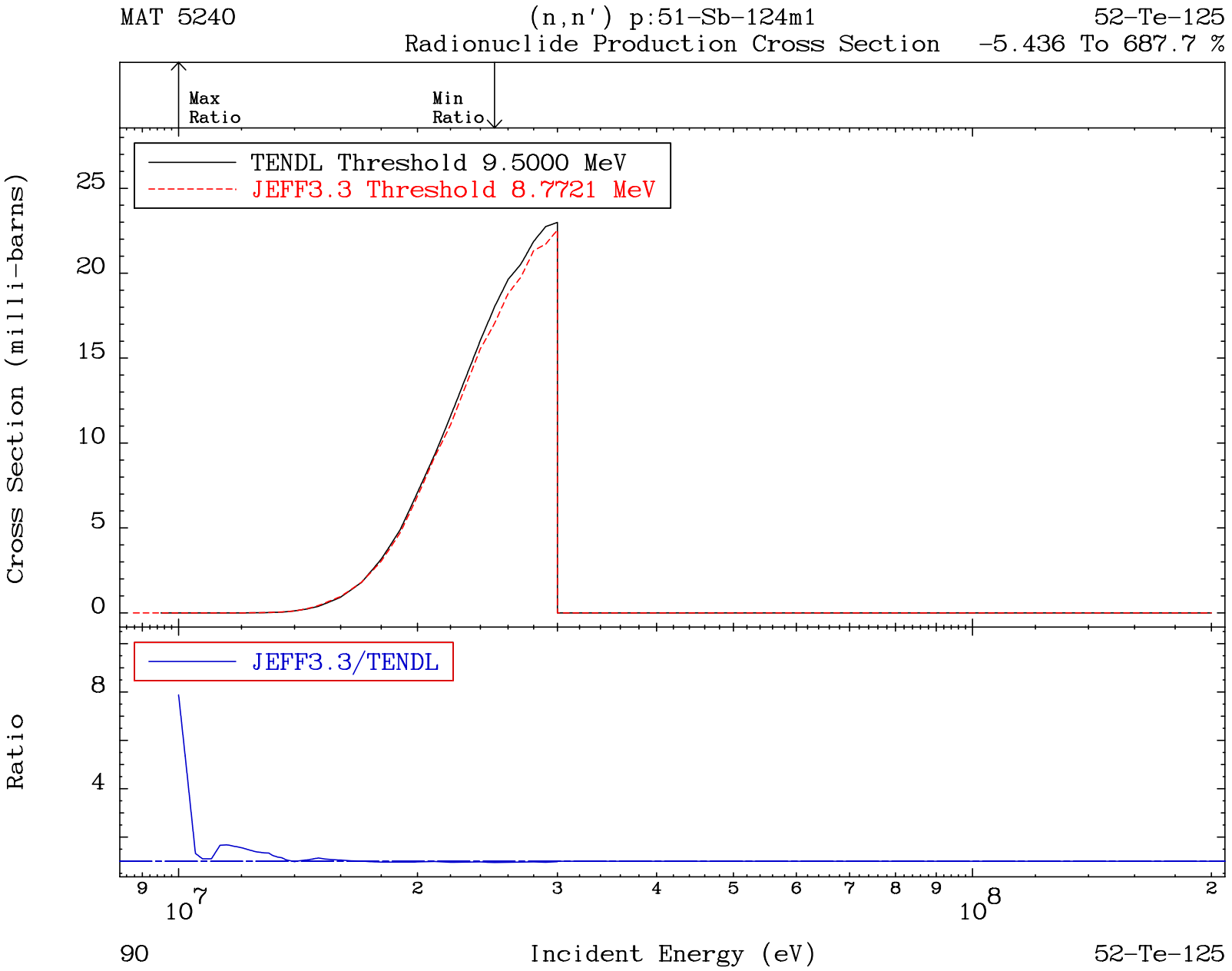

MAT 5240
(n,n') α:50-Sn-121g
52-Te-125
Radionuclide Production Cross Section -26.72 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.2683 MeV
JEFF3.3 Threshold 2.2686 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
85
52-Te-125

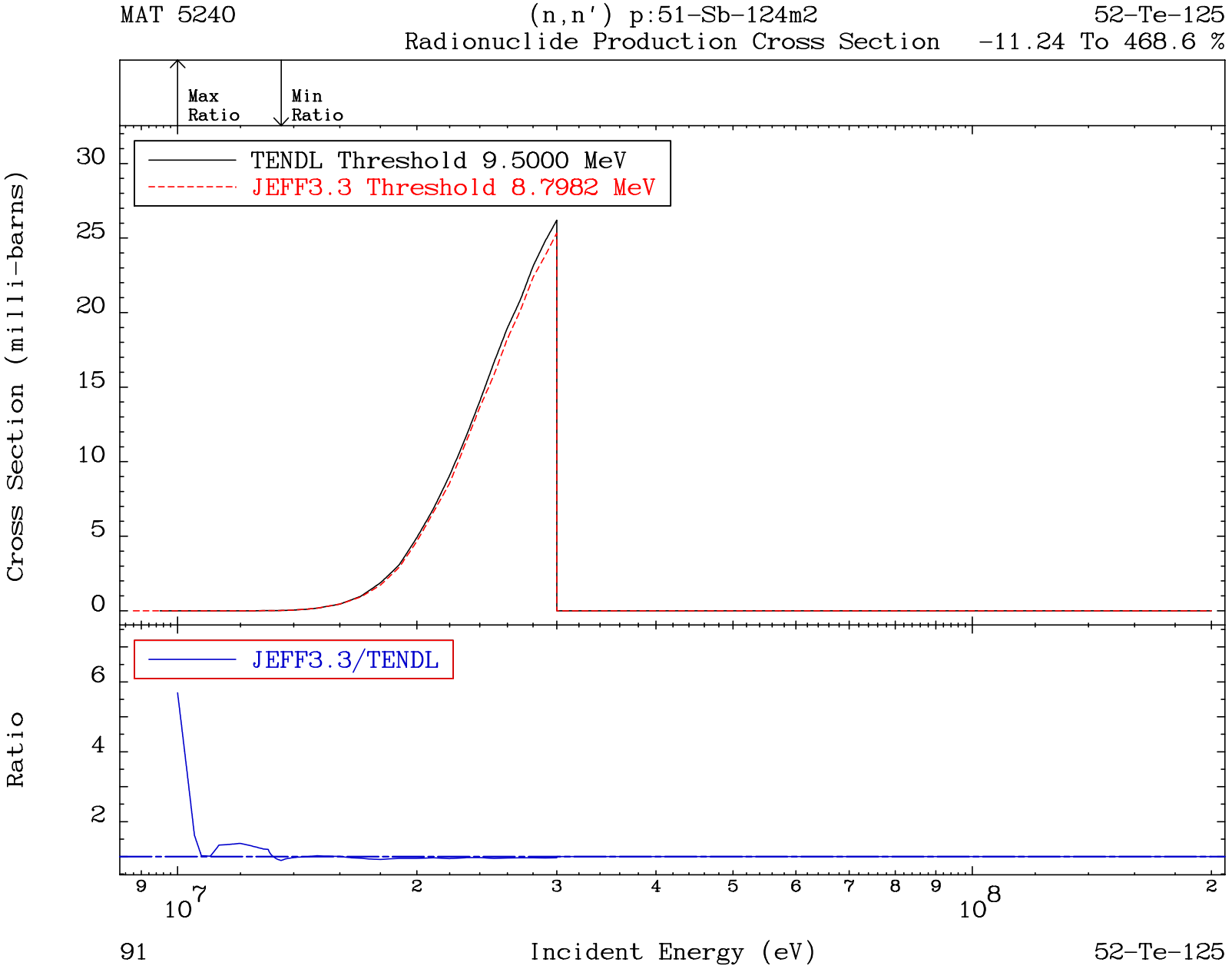

MAT 5240
(n,n') α:50-Sn-121m1
52-Te-125
Radionuclide Production Cross Section -1.980 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.2746 MeV
JEFF3.3 Threshold 2.2749 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
86
Incident Energy (eV)
52-Te-125

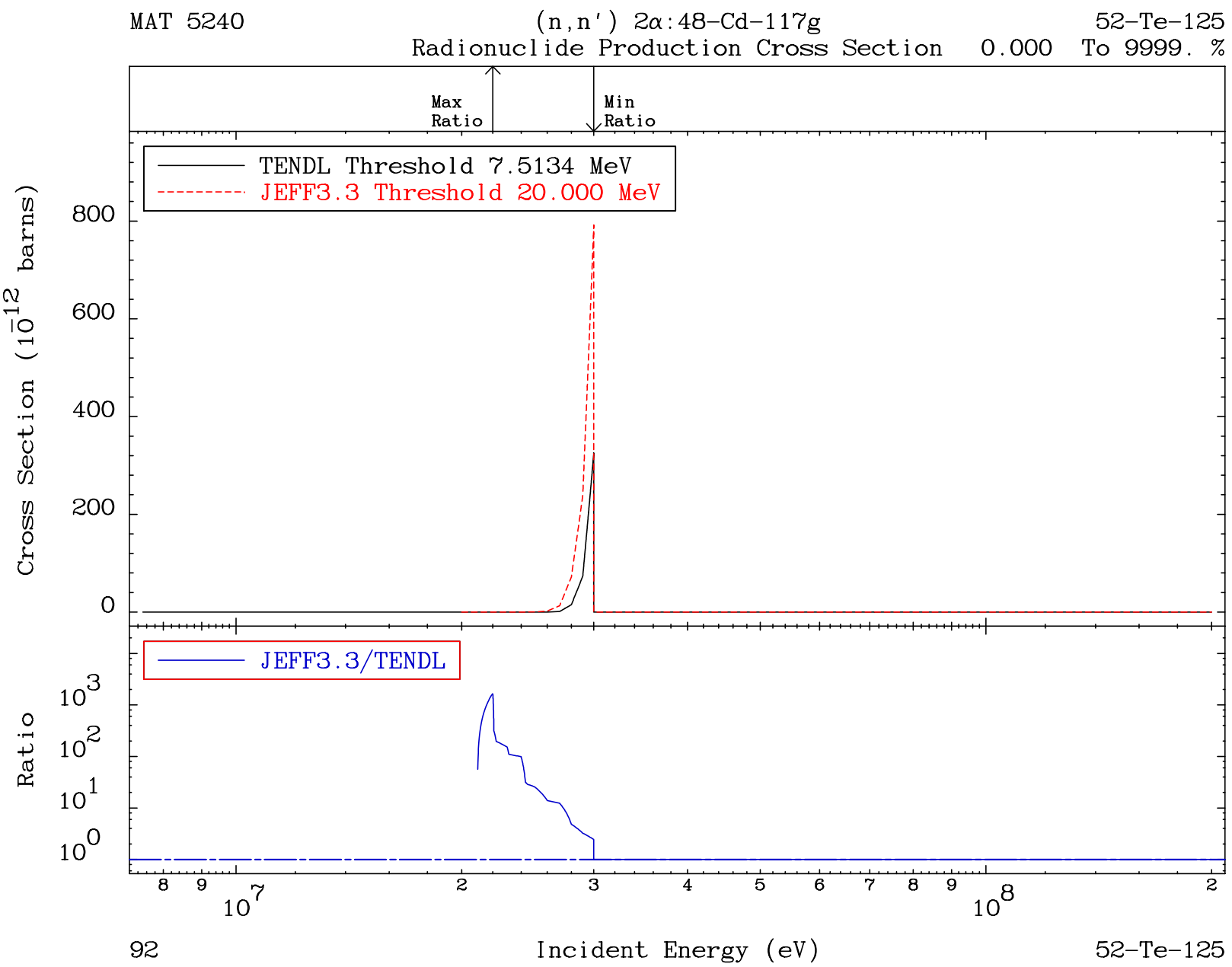

MAT 5240
(n,3n) α:50-Sn-119g
52-Te-125
Radionuclide Production Cross Section
-88.01 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 17.666 MeV
JEFF3.3 Threshold 17.666 MeV
Cross Section (micro-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
87
52-Te-125

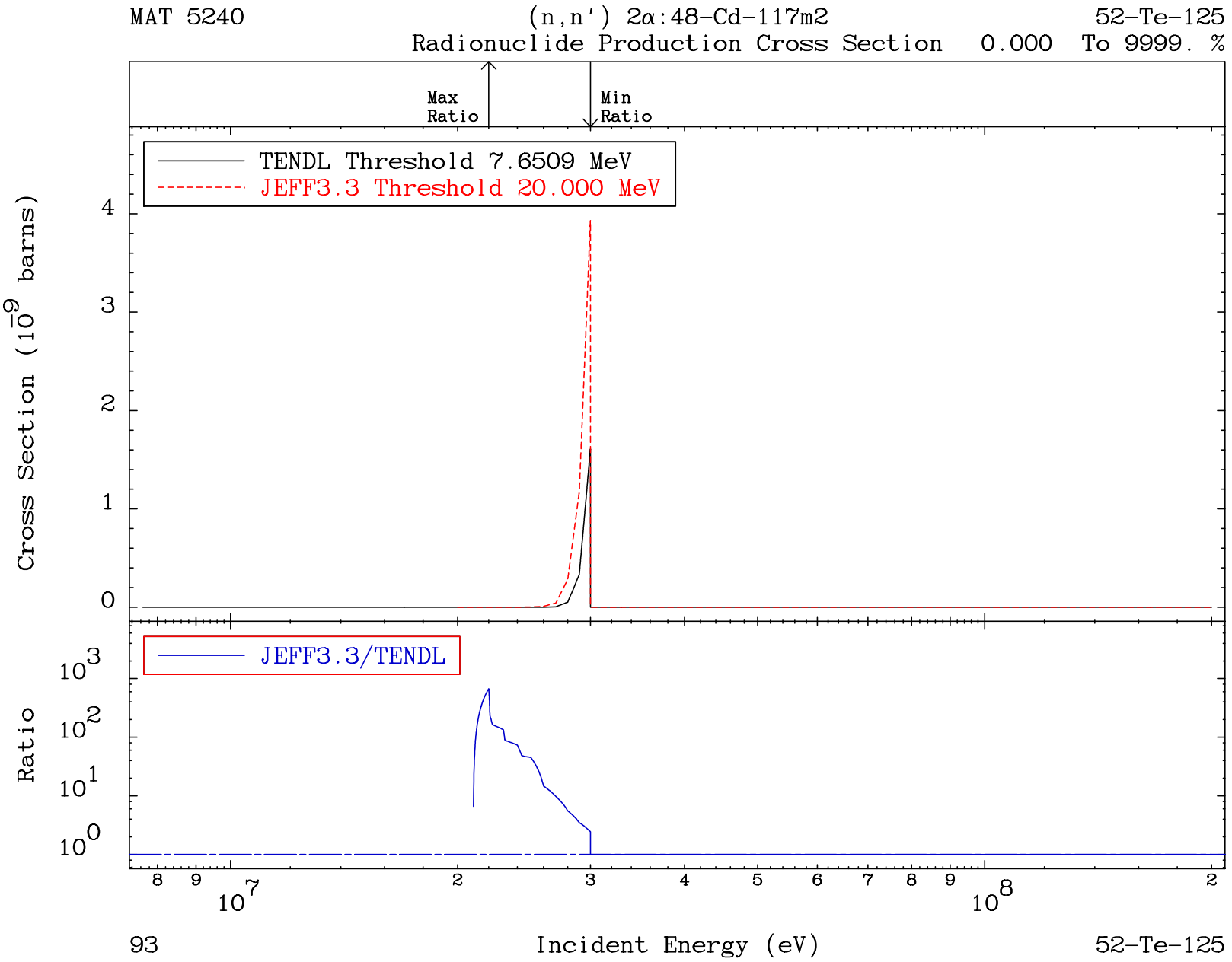

MAT 5240
(n,3n) α:50-Sn-119m2
52-Te-125
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 17.756 MeV
JEFF3.3 Threshold 21.000 MeV
Cross Section (micro-barns)
18
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
88
Incident Energy (eV)
52-Te-125

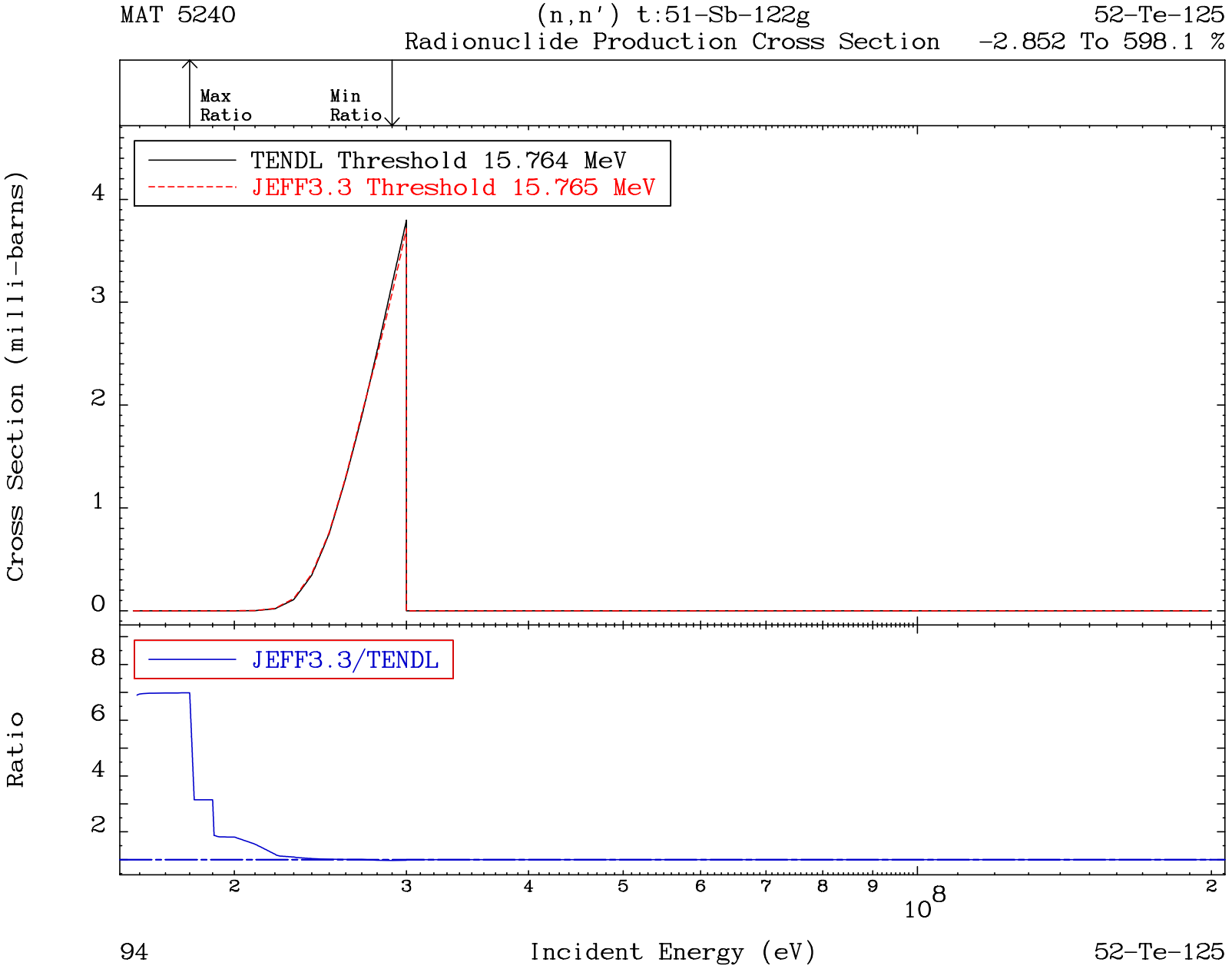

MAT 5240
(n,n') p:51-Sb-124g
52-Te-125
Radionuclide Production Cross Section -18.88 To 633.2 %
Max Ratio
Min Ratio
TENDL Threshold 9.5000 MeV
JEFF3.3 Threshold 8.7611 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
8
6
4
2
9
10^7
2
3
4
5
6
7
8
9
10^8
2
89
Incident Energy (eV)
52-Te-125

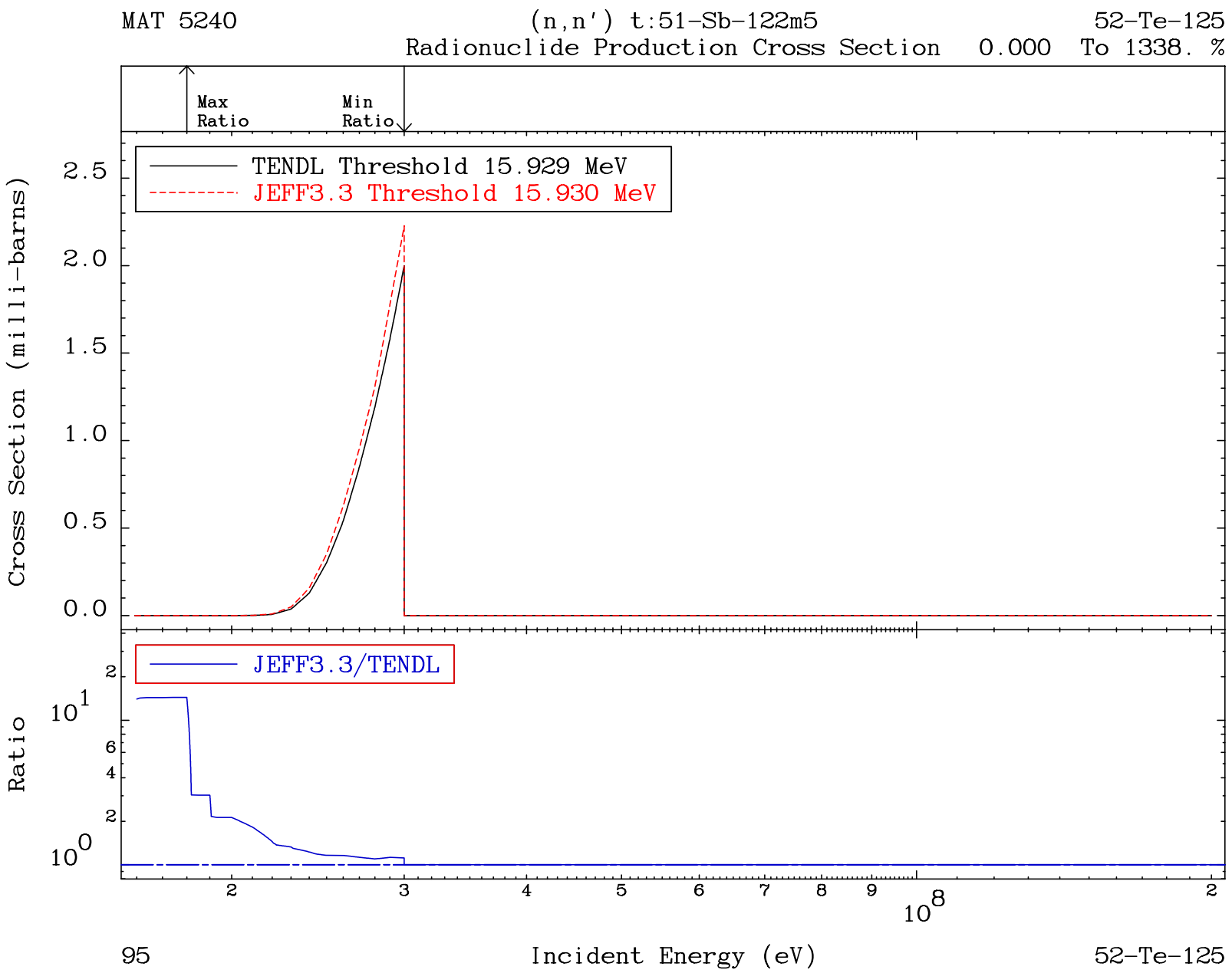

MAT 5240
(n,n') p:51-Sb-124m1
52-Te-125
Radionuclide Production Cross Section -5.436 To 687.7 %
Max Ratio
Min Ratio
TENDL Threshold 9.5000 MeV
JEFF3.3 Threshold 8.7721 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
8
4
9
2
3
4
5
6
7
8
9
2
10^7
10^8
90
Incident Energy (eV)
52-Te-125

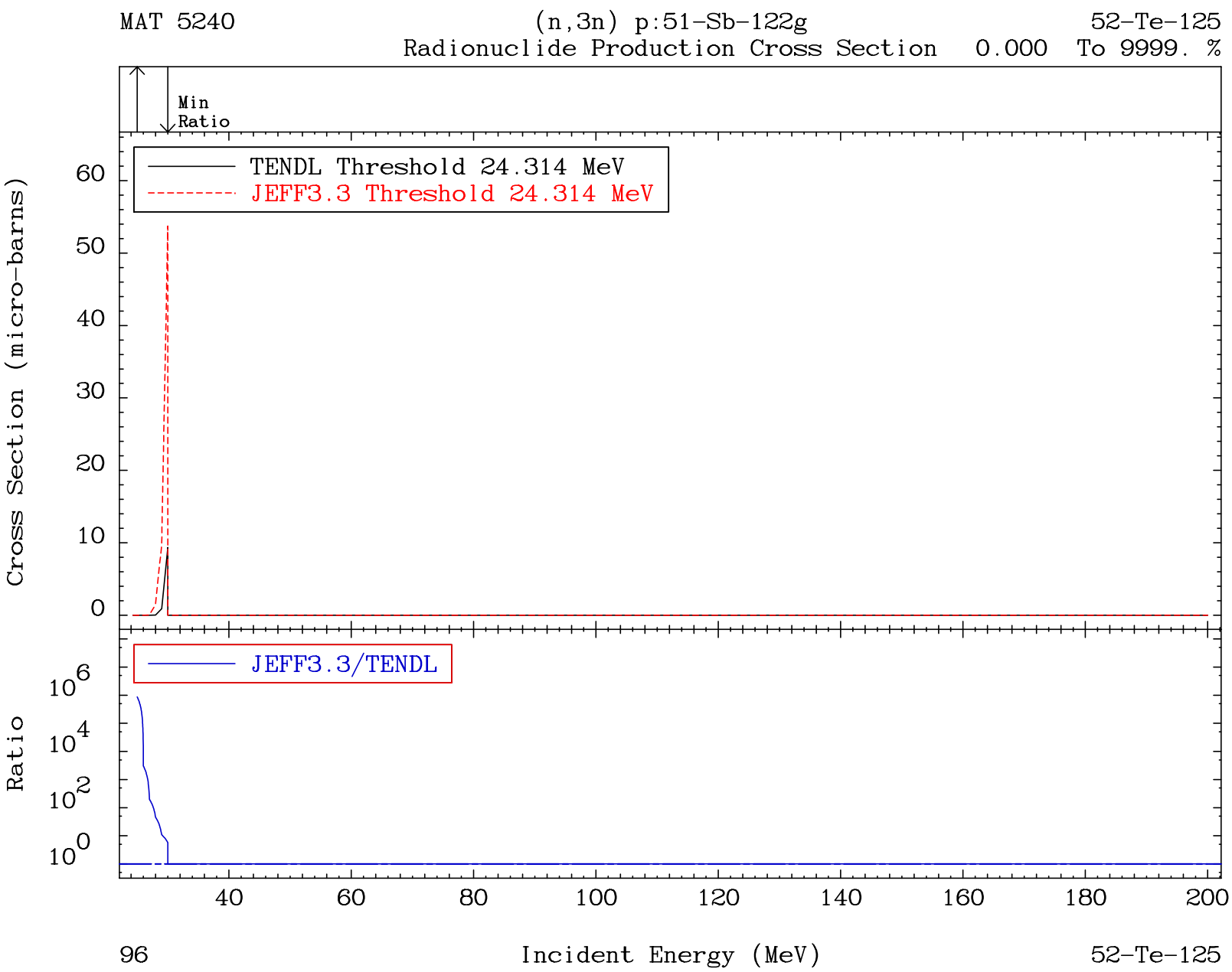

MAT 5240
(n,n') p:51-Sb-124m2
52-Te-125
Radionuclide Production Cross Section -11.24 To 468.6 %
Max Ratio
Min Ratio
TENDL Threshold 9.5000 MeV
JEFF3.3 Threshold 8.7982 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
6
4
2
9
$10^7$
2
3
4
5
6
7
8
9
$10^8$
2
91
Incident Energy (eV)
52-Te-125

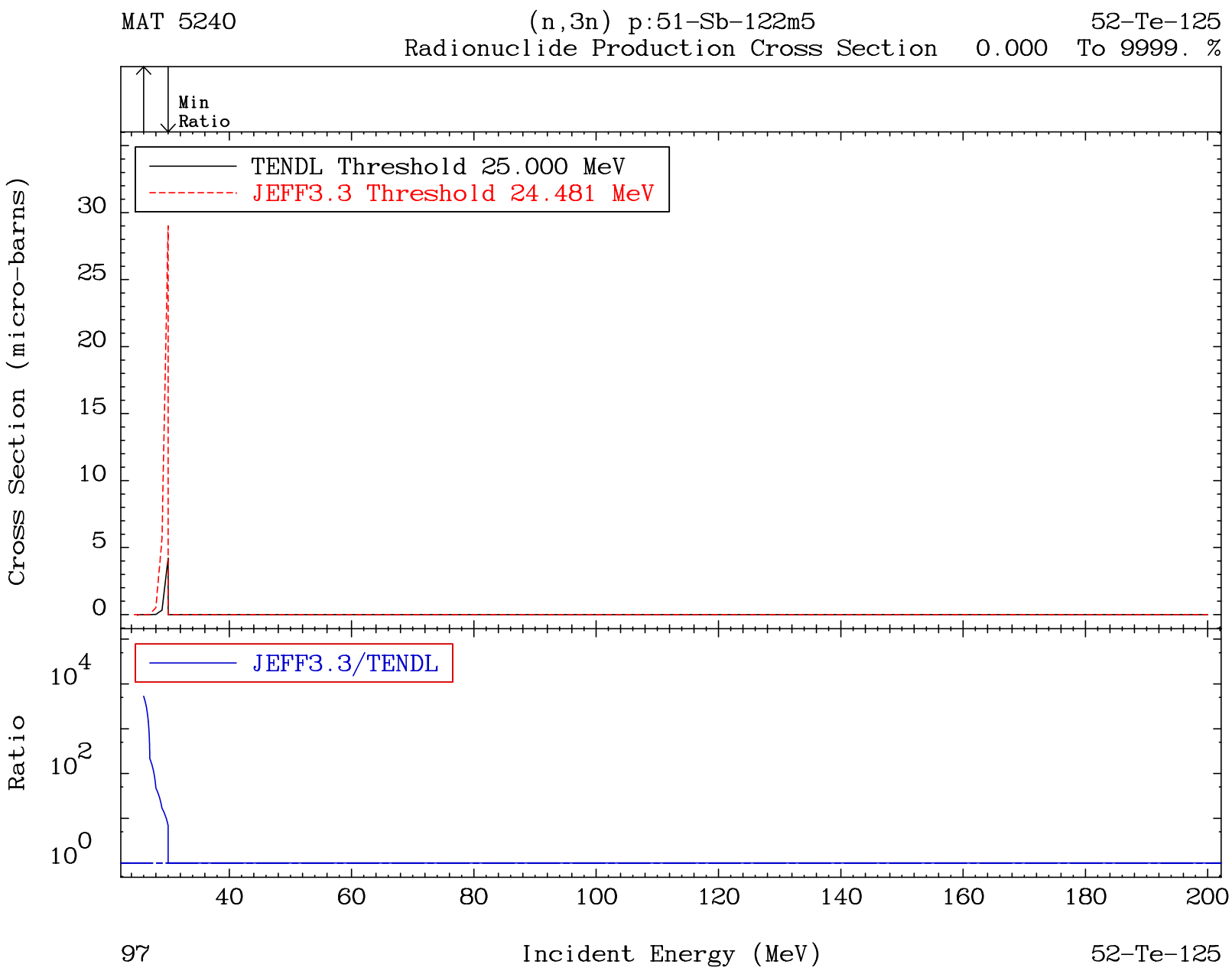

MAT 5240
(n,n') 2α:48-Cd-117g
52-Te-125
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.5134 MeV
JEFF3.3 Threshold 20.000 MeV
Cross Section ($10^{-12}$ barns)
800
600
400
200
0
JEFF3.3/TENDL
Ratio
$10^3$
$10^2$
$10^1$
$10^0$
8 9 $10^7$ 2 3 4 5 6 7 8 9 $10^8$ 2
92
Incident Energy (eV)
52-Te-125

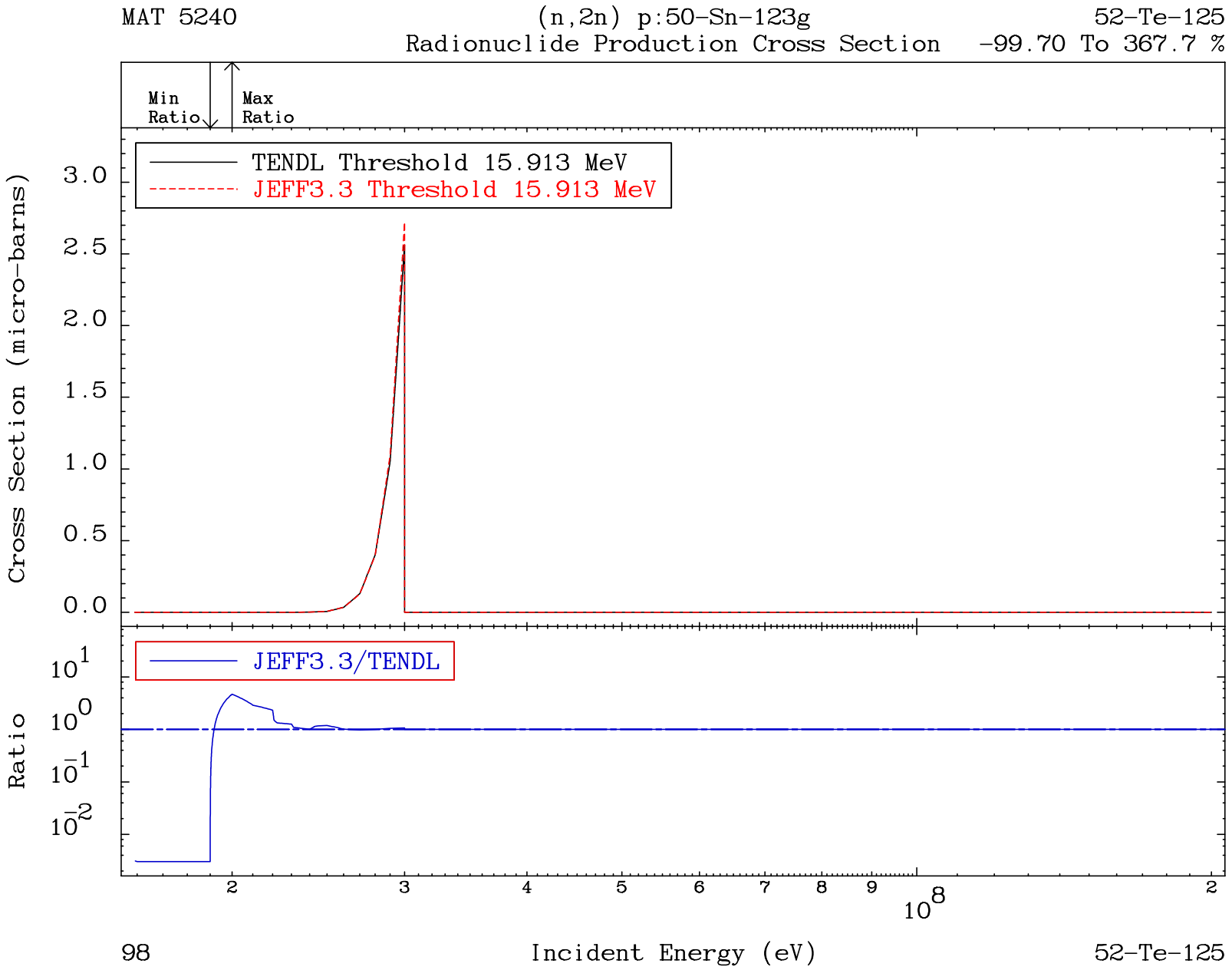

MAT 5240
(n,n') 2α:48-Cd-117m2
52-Te-125
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.6509 MeV
JEFF3.3 Threshold 20.000 MeV
Cross Section ($10^{-9}$ barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
93
52-Te-125

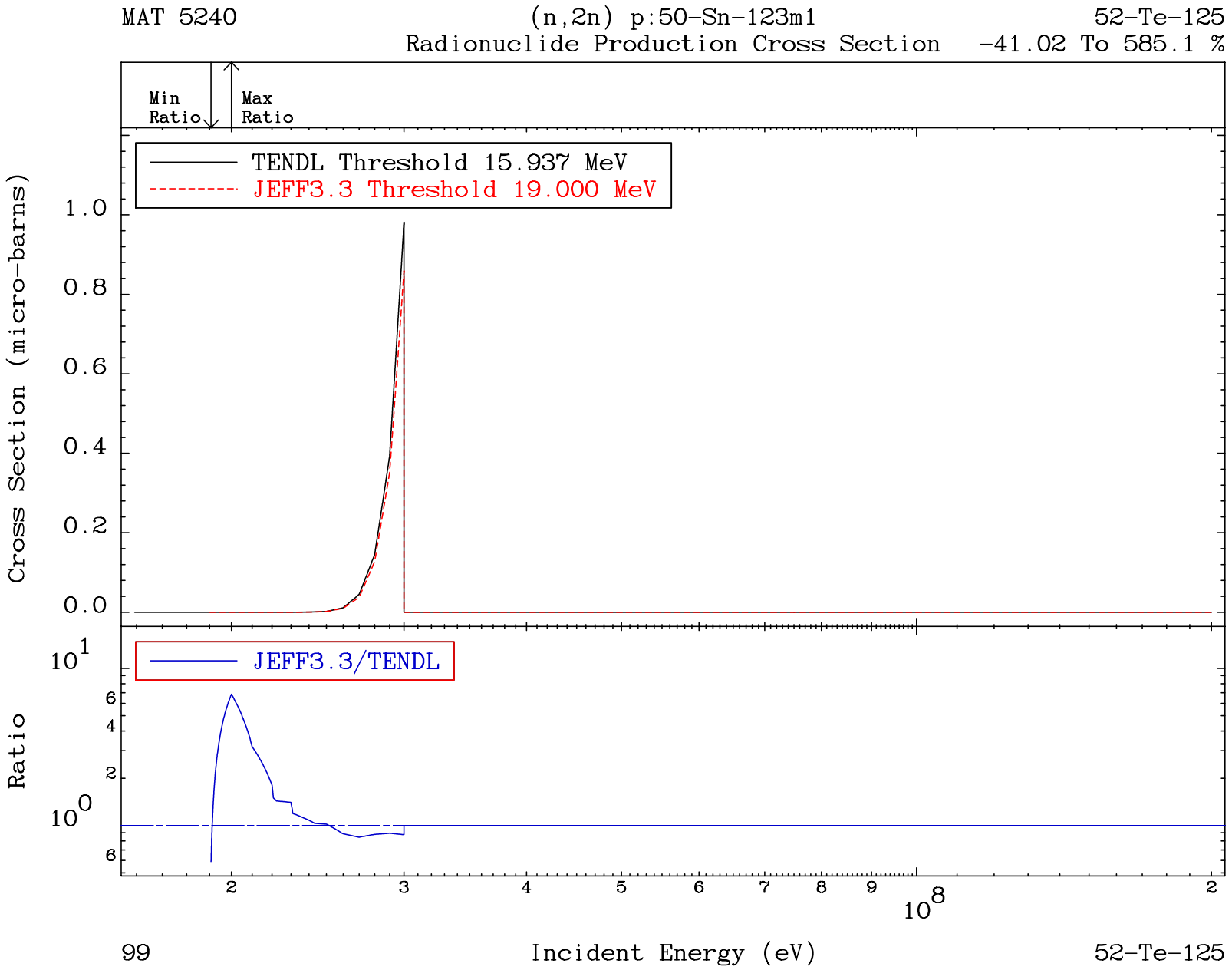

MAT 5240
(n,n') t:51-Sb-122g
52-Te-125
Radionuclide Production Cross Section
-2.852 To 598.1 %
Max Ratio
Min Ratio
TENDL Threshold 15.764 MeV
JEFF3.3 Threshold 15.765 MeV
Cross Section (milli-barns)
0
1
2
3
4
JEFF3.3/TENDL
Ratio
2
4
6
8
2
3
4
5
6
7
8
9
10^8
2
94
Incident Energy (eV)
52-Te-125

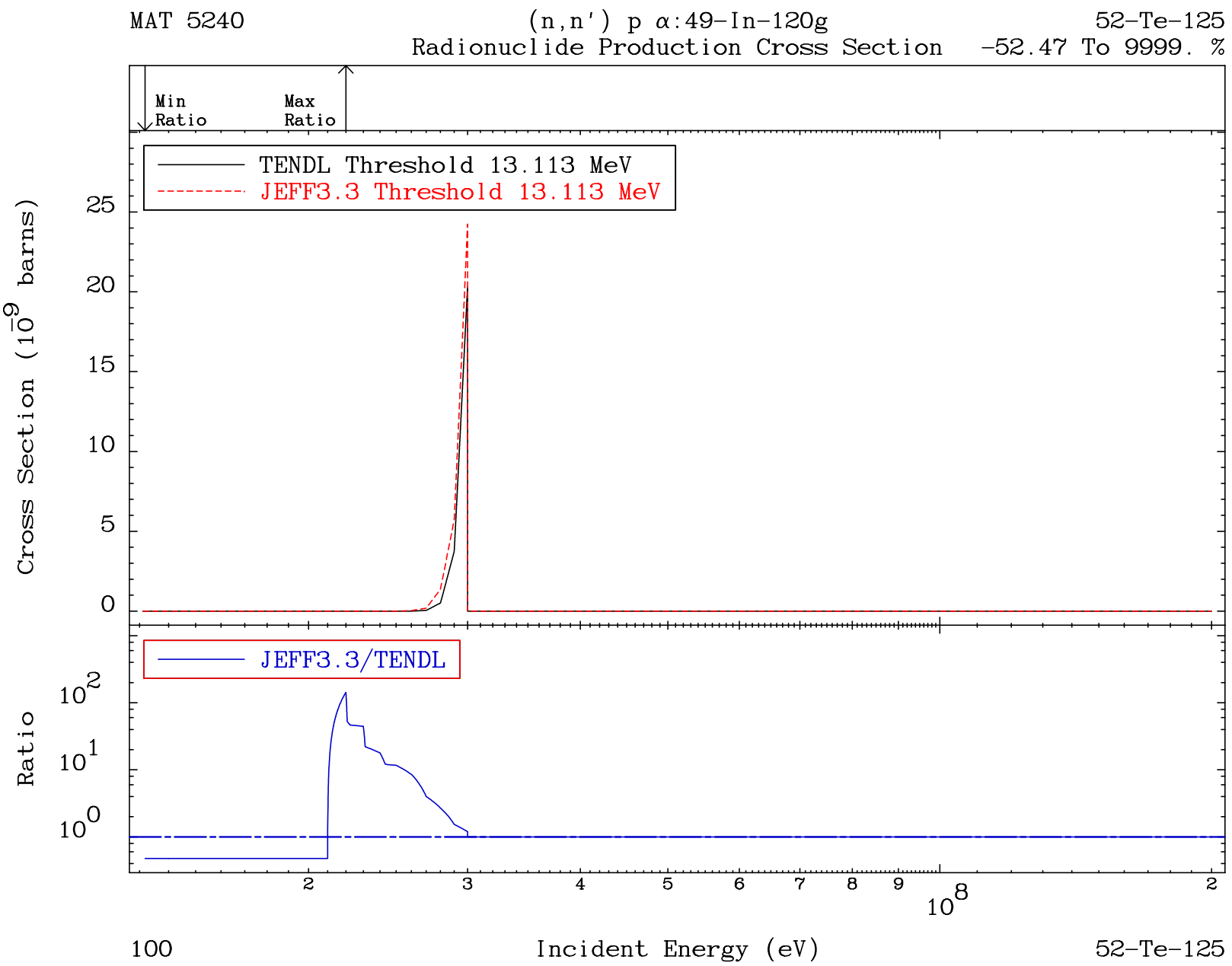

MAT 5240
(n,n') t:51-Sb-122m5
52-Te-125
Radionuclide Production Cross Section 0.000 To 1338. %
Max Ratio
Min Ratio
TENDL Threshold 15.929 MeV
JEFF3.3 Threshold 15.930 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
2
10^1
6
4
2
10^0
2
3
4
5
6
7
8
9
10^8
2
95
Incident Energy (eV)
52-Te-125

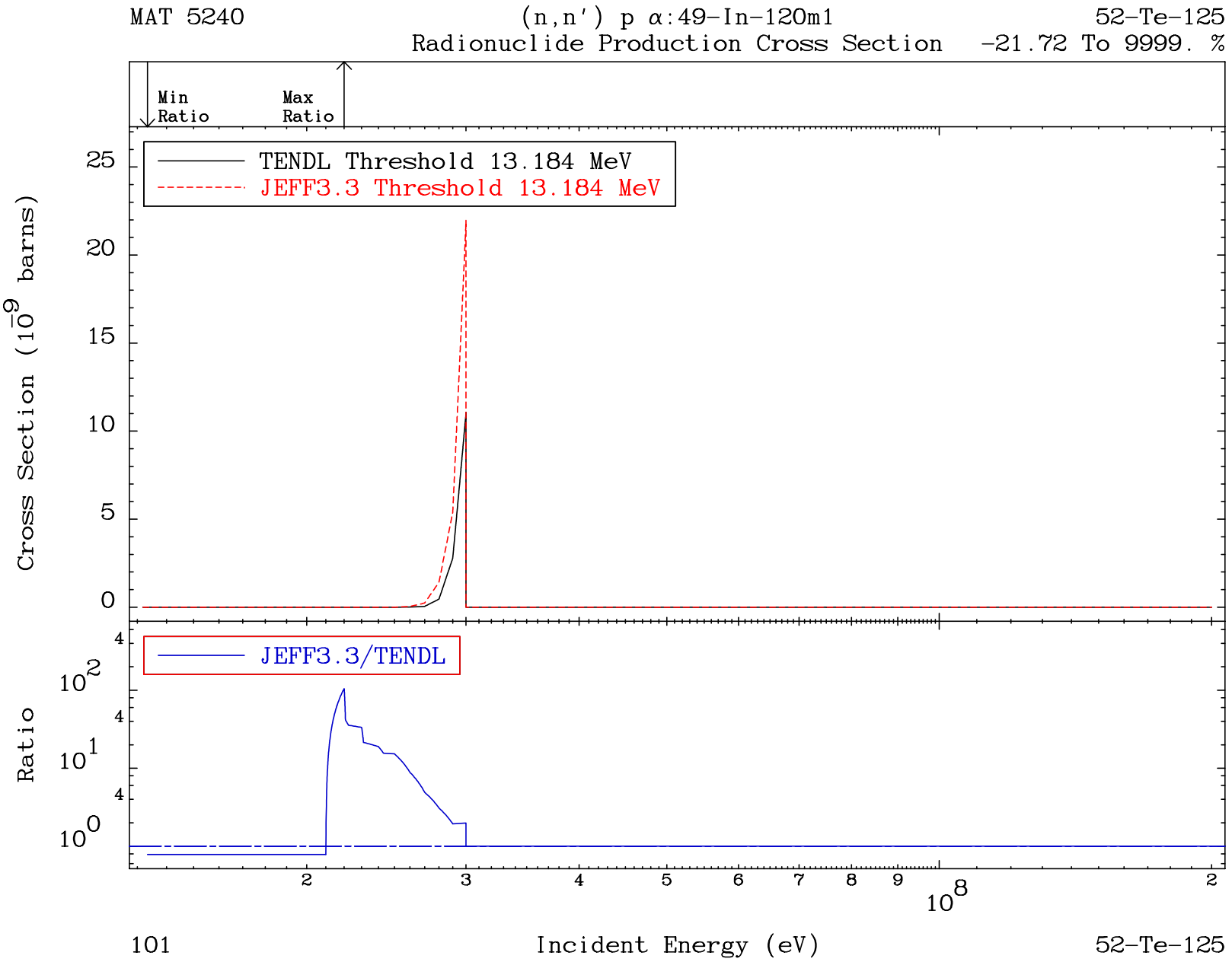

MAT 5240
(n,3n) p:51-Sb-122g
52-Te-125
Radionuclide Production Cross Section 0.000 To 9999. %
Min Ratio
TENDL Threshold 24.314 MeV
JEFF3.3 Threshold 24.314 MeV
Cross Section (micro-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
10^6
10^4
10^2
10^0
40
60
80
100
120
140
160
180
200
96
Incident Energy (MeV)
52-Te-125

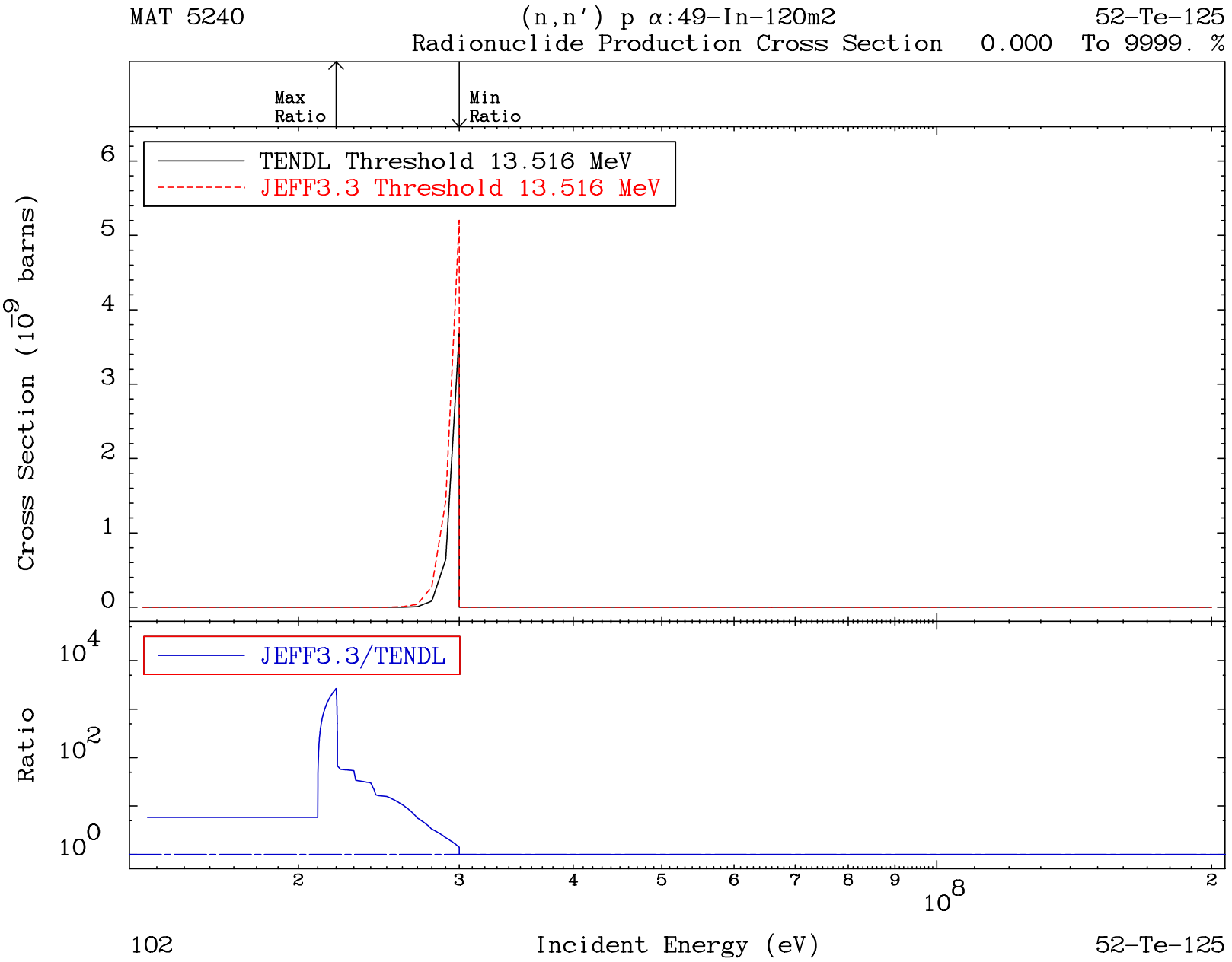

MAT 5240
(n,3n) p:51-Sb-122m5
52-Te-125
Radionuclide Production Cross Section 0.000 To 9999. %
Min Ratio
TENDL Threshold 25.000 MeV
JEFF3.3 Threshold 24.481 MeV
Cross Section (micro-barns)
0
5
10
15
20
25
30
JEFF3.3/TENDL
Ratio
$10^0$
$10^2$
$10^4$
40
60
80
100
120
140
160
180
200
97
Incident Energy (MeV)
52-Te-125

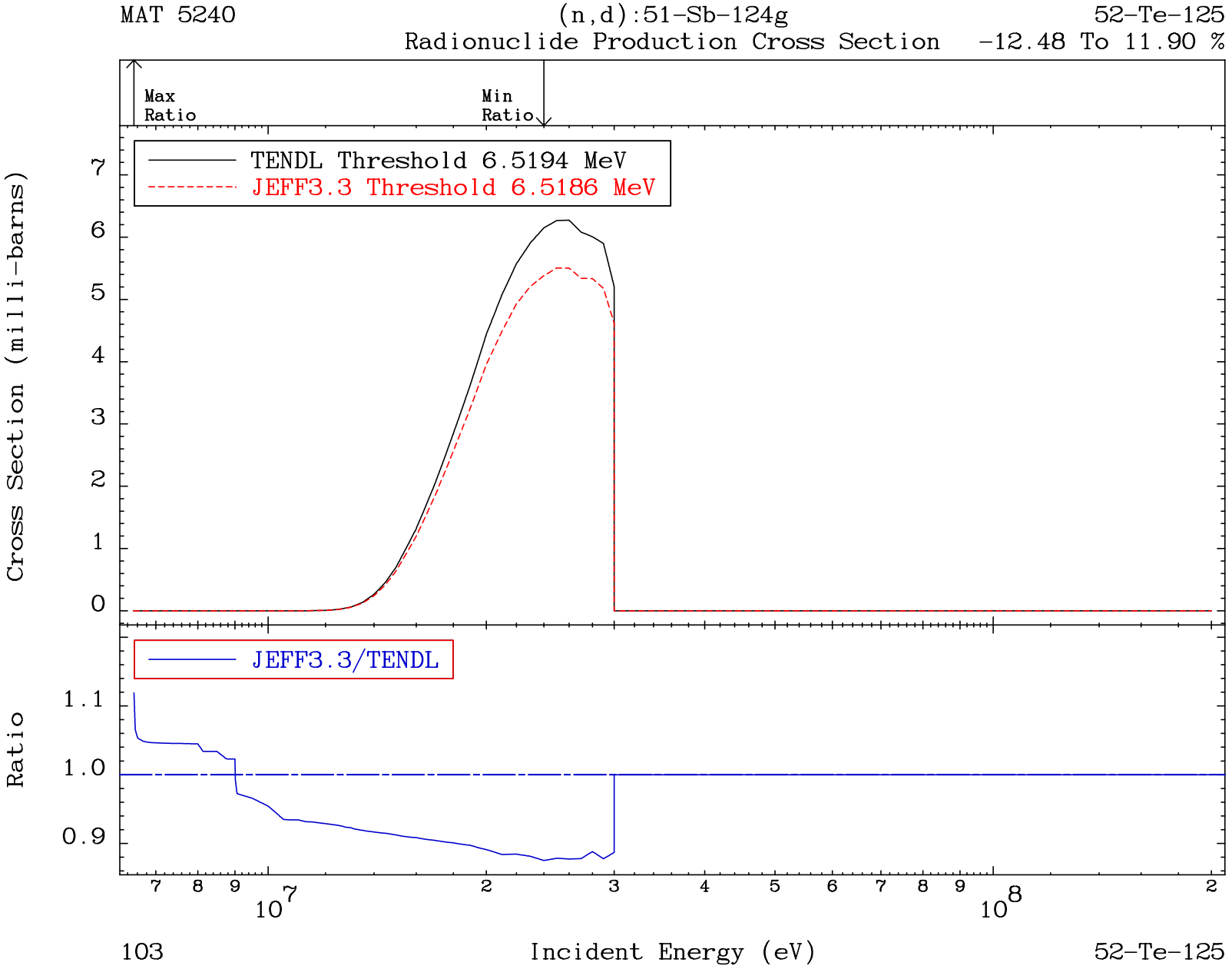

MAT 5240
(n,2n) p:50-Sn-123g
52-Te-125
Radionuclide Production Cross Section
-99.70 To 367.7 %
Min Ratio
Max Ratio
TENDL Threshold 15.913 MeV
JEFF3.3 Threshold 15.913 MeV
Cross Section (micro-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^1
10^0
10^-1
10^-2
2
3
4
5
6
7
8
9
10^8
2
98
Incident Energy (eV)
52-Te-125

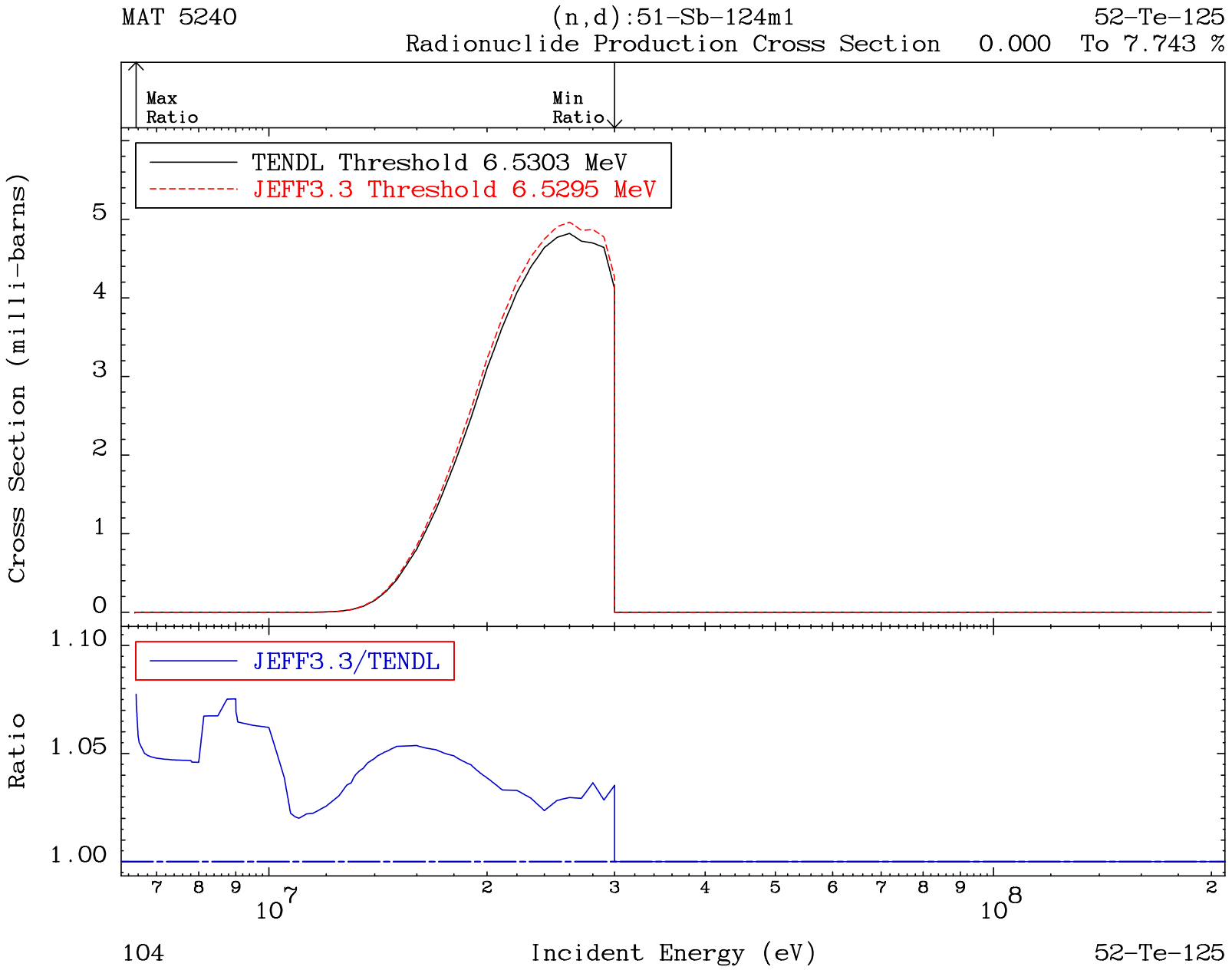

MAT 5240
(n,2n) p:50-Sn-123m1
52-Te-125
Radionuclide Production Cross Section
-41.02 To 585.1 %
Min Ratio
Max Ratio
TENDL Threshold 15.937 MeV
JEFF3.3 Threshold 19.000 MeV
Cross Section (micro-barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
10^1
10^0
6
4
2
6
2
3
4
5
6
7
8
9
10^8
2
99
Incident Energy (eV)
52-Te-125

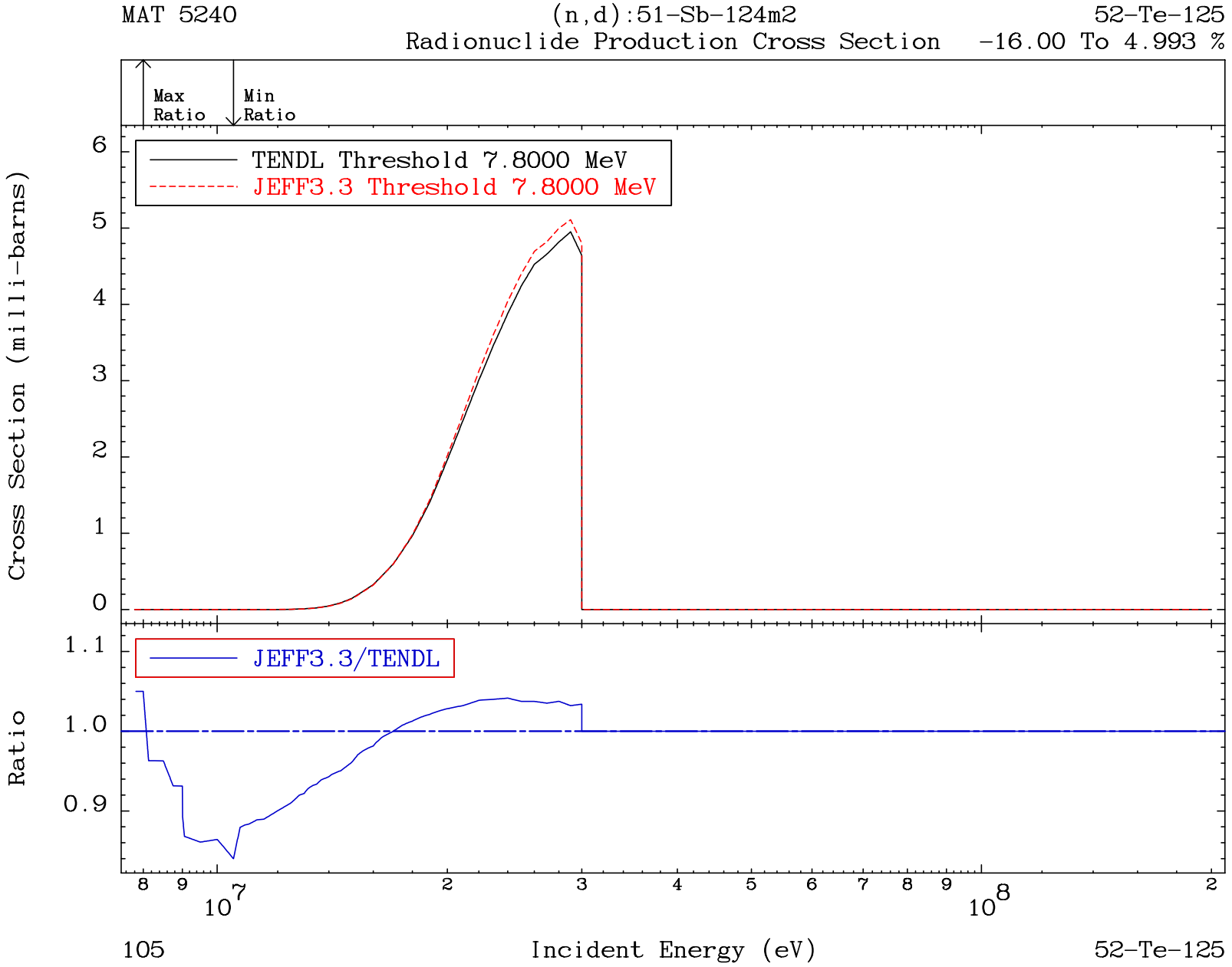

MAT 5240
(n,n') p α:49-In-120g
52-Te-125
Radionuclide Production Cross Section
-52.47 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 13.113 MeV
JEFF3.3 Threshold 13.113 MeV
Cross Section ($10^{-9}$ barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
$10^2$
$10^1$
$10^0$
2
3
4
5
6
7
8
9
$10^8$
2
100
Incident Energy (eV)
52-Te-125

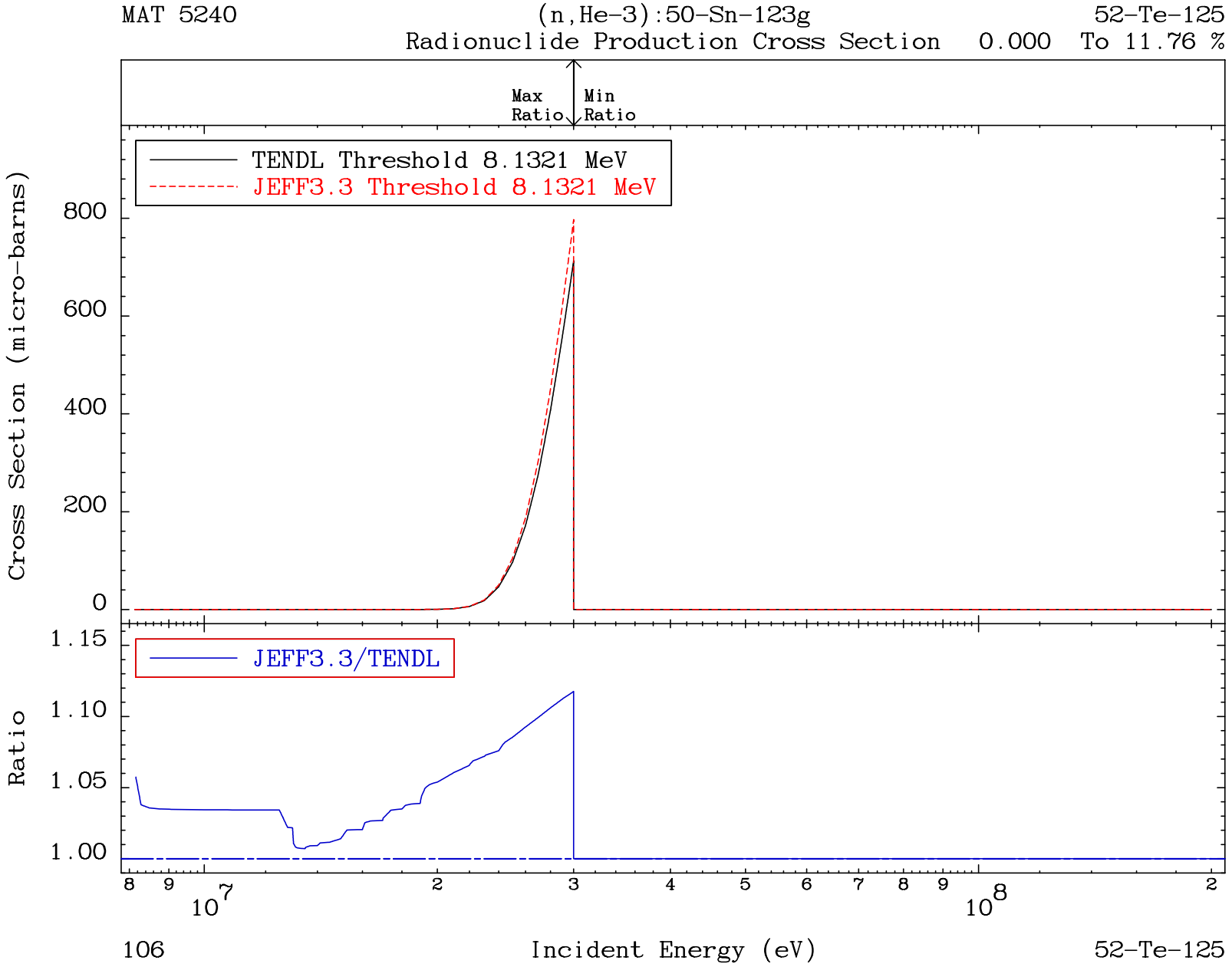

MAT 5240
(n,n') p α:49-In-120m1
52-Te-125
Radionuclide Production Cross Section
-21.72 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 13.184 MeV
JEFF3.3 Threshold 13.184 MeV
Cross Section ($10^{-9}$ barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
$10^{2}$
$10^{1}$
$10^{0}$
2
3
4
5
6
7
8
9
$10^{8}$
2
101
Incident Energy (eV)
52-Te-125

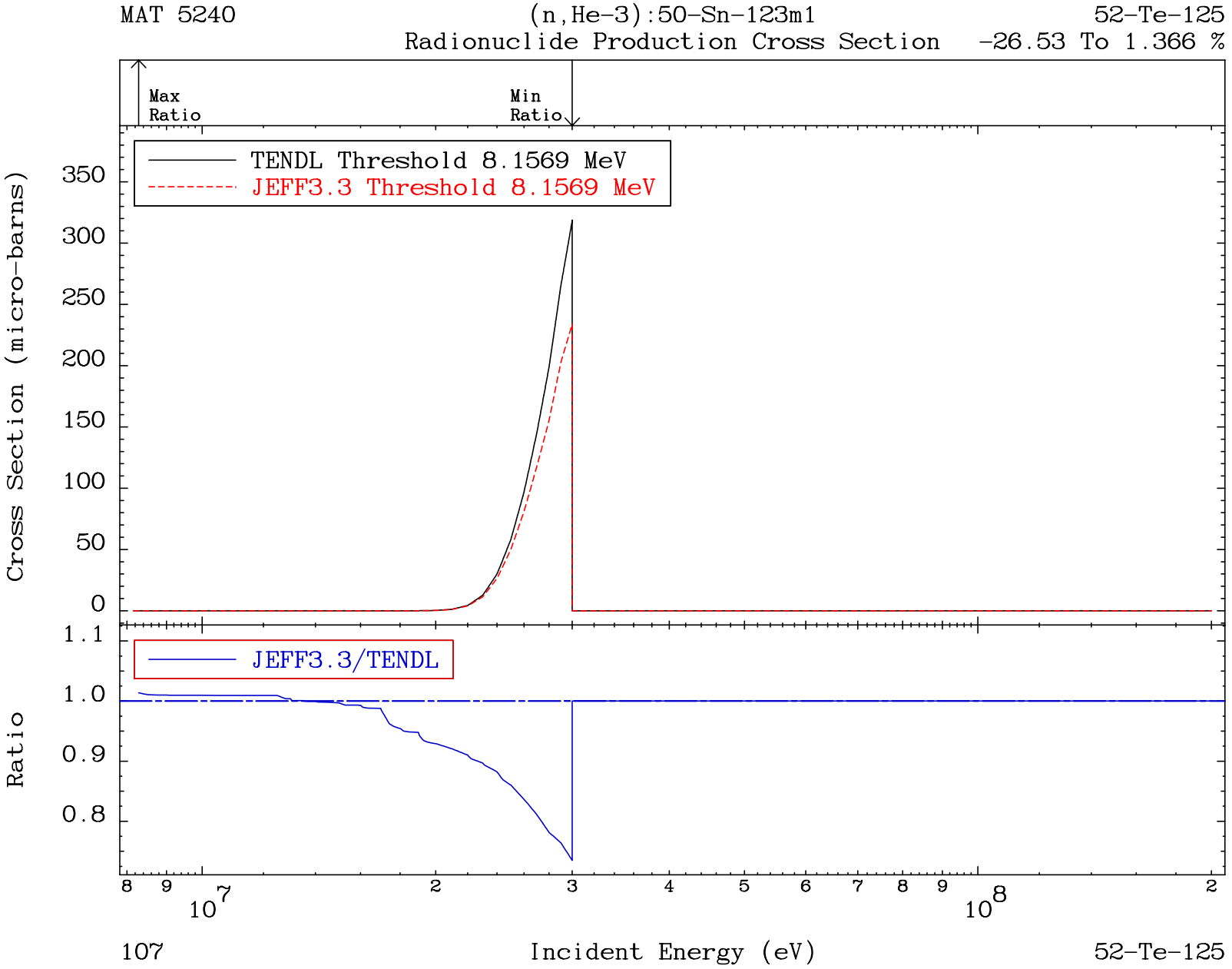

MAT 5240
(n,n') p α:49-In-120m2
52-Te-125
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 13.516 MeV
JEFF3.3 Threshold 13.516 MeV
Cross Section ($10^{-9}$ barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
102
52-Te-125

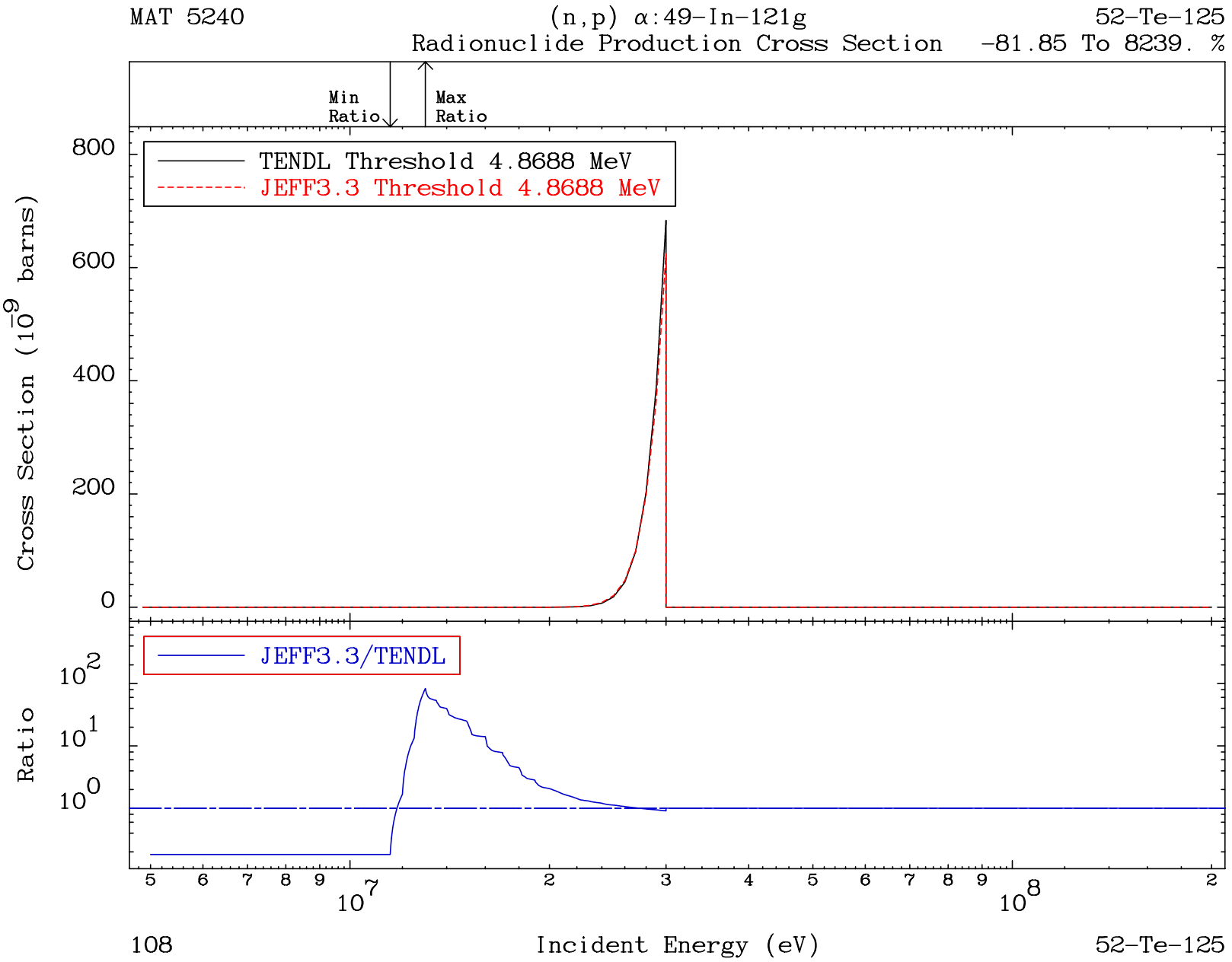

MAT 5240
(n,d):51-Sb-124g
52-Te-125
Radionuclide Production Cross Section -12.48 To 11.90 %
Max Ratio
Min Ratio
TENDL Threshold 6.5194 MeV
JEFF3.3 Threshold 6.5186 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
JEFF3.3/TENDL
Ratio
0.9
1.0
1.1
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
103
Incident Energy (eV)
52-Te-125

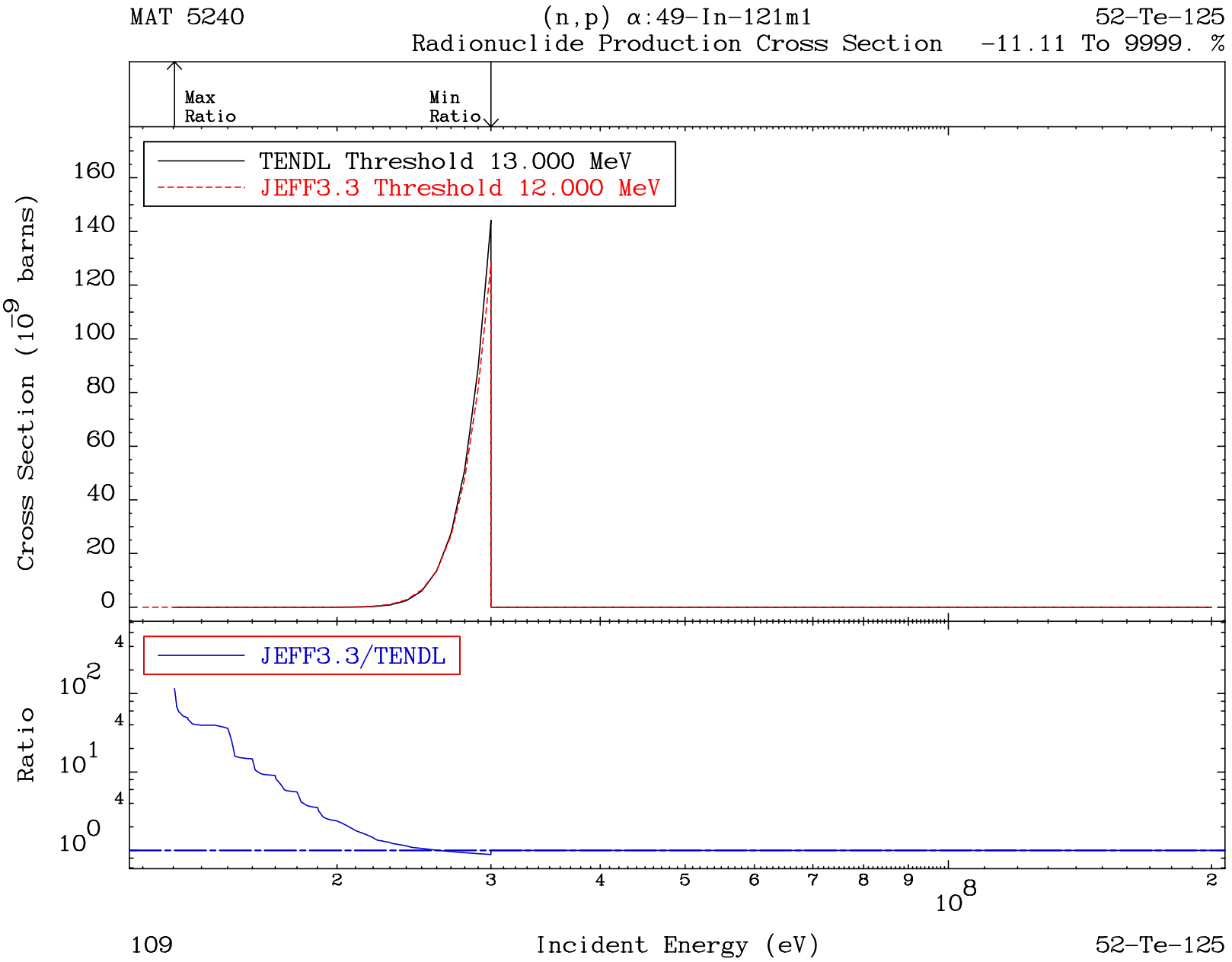

MAT 5240
(n,d):51-Sb-124m1
52-Te-125
Radionuclide Production Cross Section 0.000 To 7.743 %
Max Ratio
Min Ratio
TENDL Threshold 6.5303 MeV
JEFF3.3 Threshold 6.5295 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
JEFF3.3/TENDL
Ratio
1.00
1.05
1.10
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
104
Incident Energy (eV)
52-Te-125

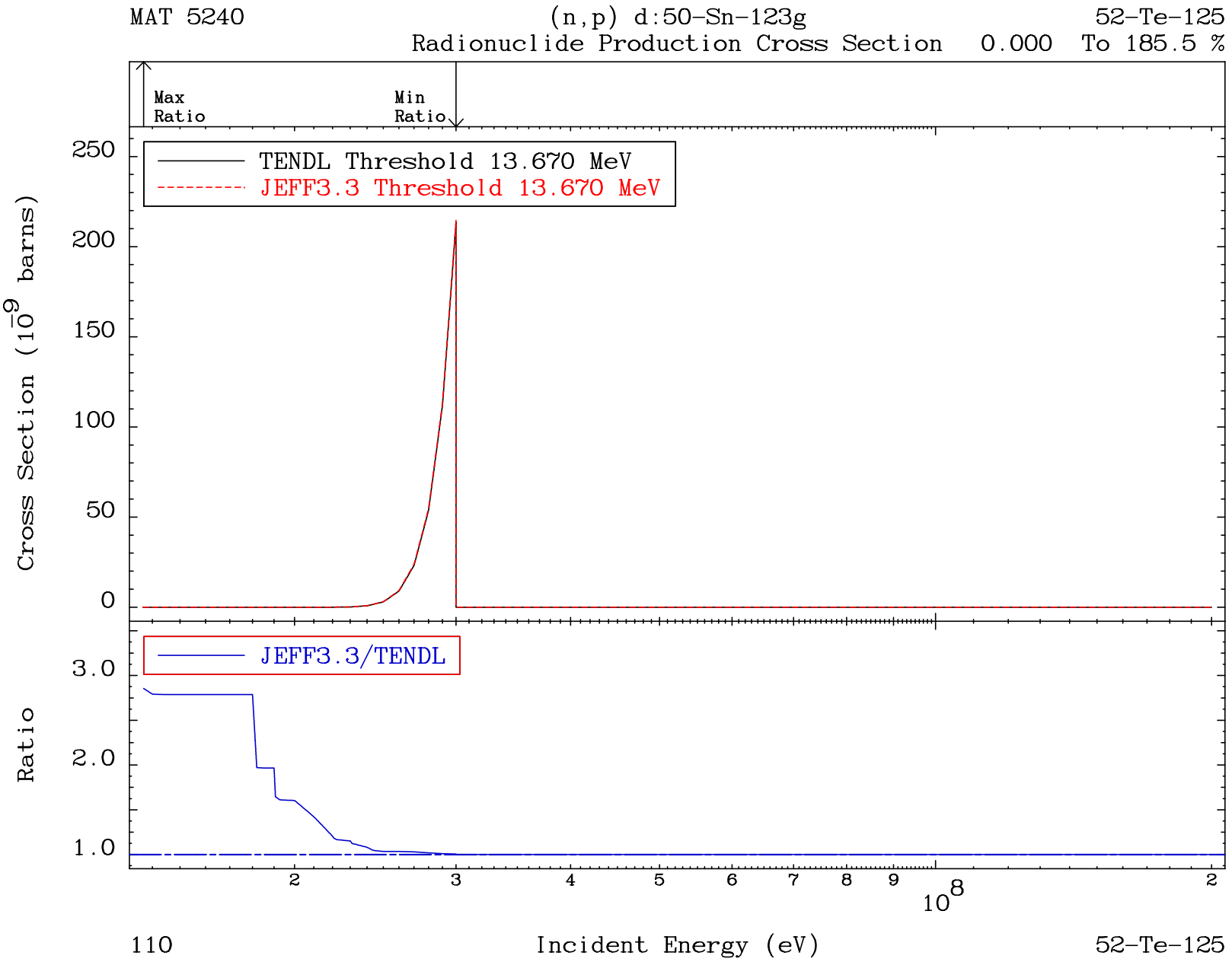

MAT 5240
(n,d):51-Sb-124m2
52-Te-125
Radionuclide Production Cross Section
-16.00 To 4.993 %
Max Ratio
Min Ratio
TENDL Threshold 7.8000 MeV
JEFF3.3 Threshold 7.8000 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
105
52-Te-125

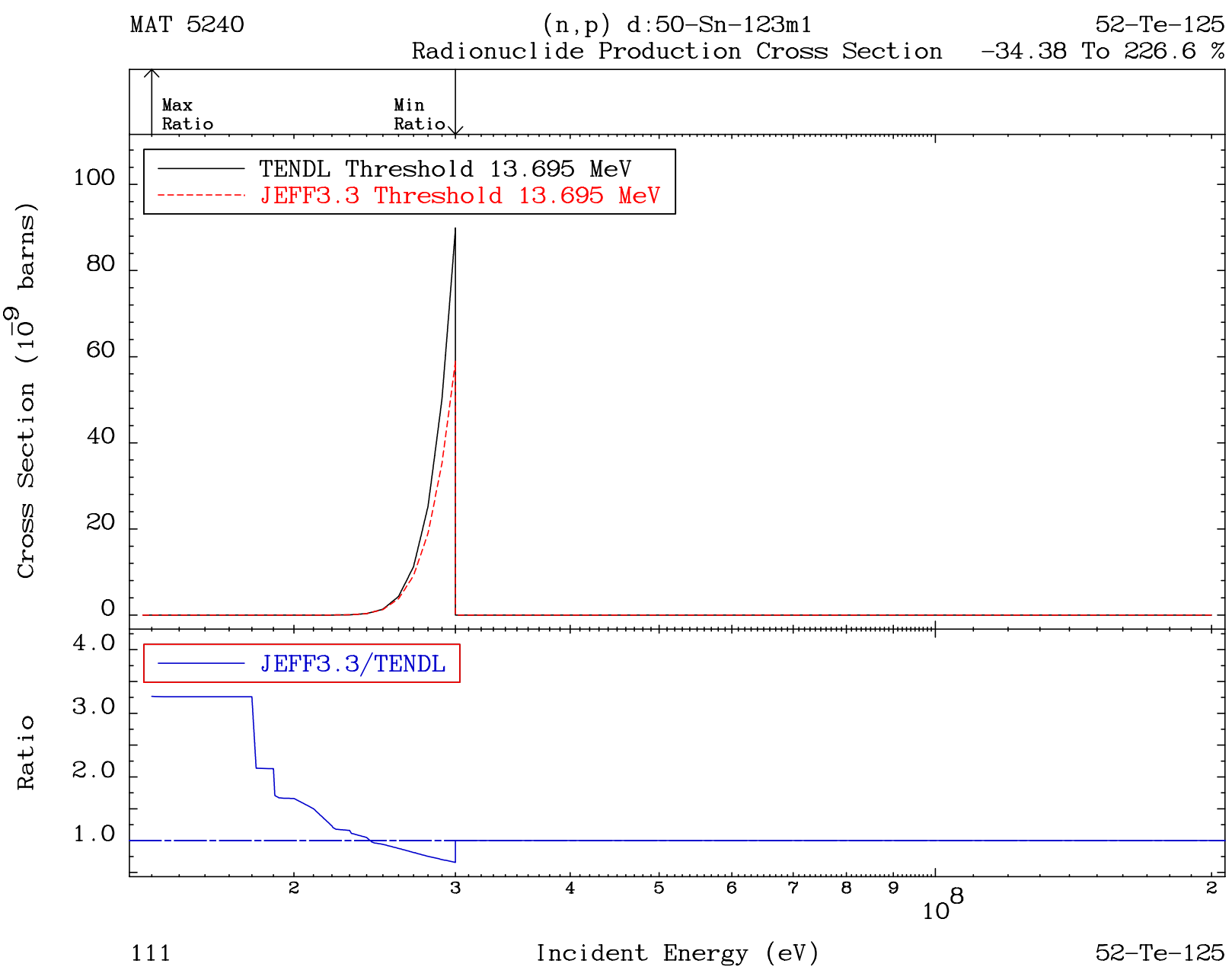

MAT 5240
(n,He-3):50-Sn-123g
52-Te-125
Radionuclide Production Cross Section 0.000 To 11.76 %
Max Ratio
Min Ratio
TENDL Threshold 8.1321 MeV
JEFF3.3 Threshold 8.1321 MeV
Cross Section (micro-barns)
800
600
400
200
0
JEFF3.3/TENDL
Ratio
1.15
1.10
1.05
1.00
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
106
Incident Energy (eV)
52-Te-125

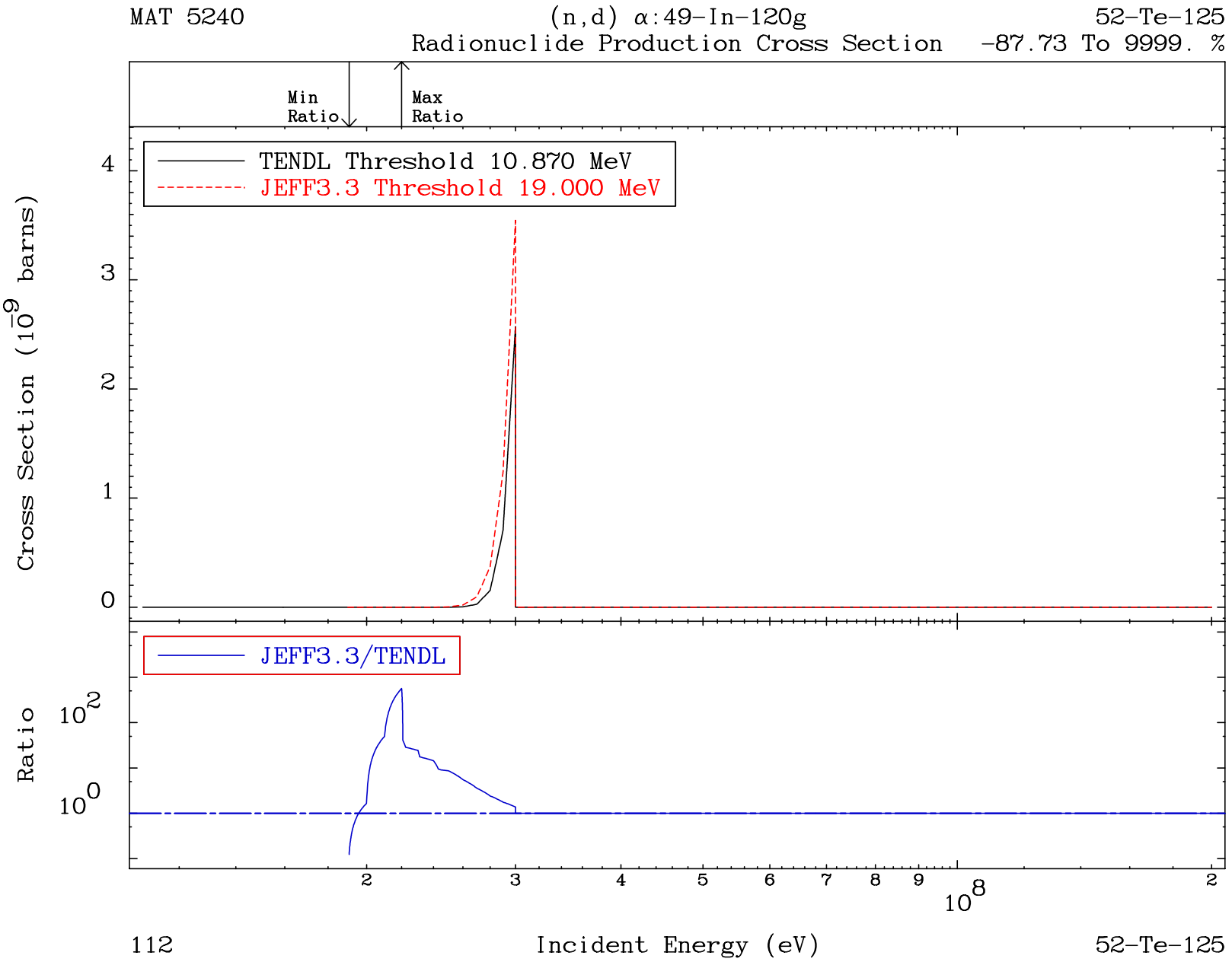

MAT 5240
(n,He-3):50-Sn-123m1
52-Te-125
Radionuclide Production Cross Section
-26.53 To 1.366 %
Max Ratio
Min Ratio
TENDL Threshold 8.1569 MeV
JEFF3.3 Threshold 8.1569 MeV
Cross Section (micro-barns)
350
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
0.8
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
107
Incident Energy (eV)
52-Te-125

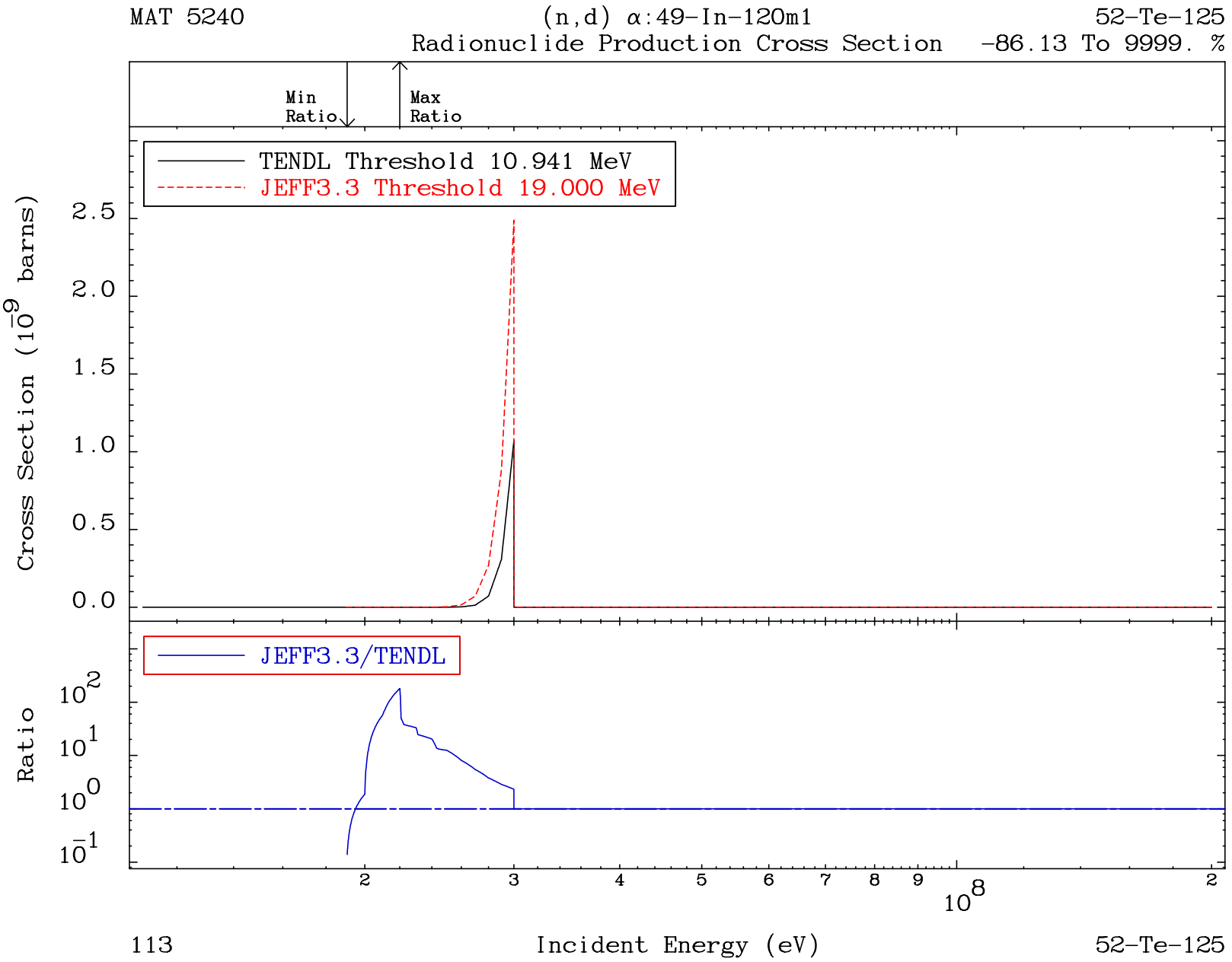

MAT 5240
(n,p) α:49-In-121g
52-Te-125
Radionuclide Production Cross Section
-81.85 To 8239. %
Min Ratio
Max Ratio
TENDL Threshold 4.8688 MeV
JEFF3.3 Threshold 4.8688 MeV
Cross Section ($10^{-9}$ barns)
800
600
400
200
0
JEFF3.3/TENDL
Ratio
$10^{2}$
$10^{1}$
$10^{0}$
5 6 7 8 9 $10^{7}$ 2 3 4 5 6 7 8 9 $10^{8}$ 2
108
Incident Energy (eV)
52-Te-125

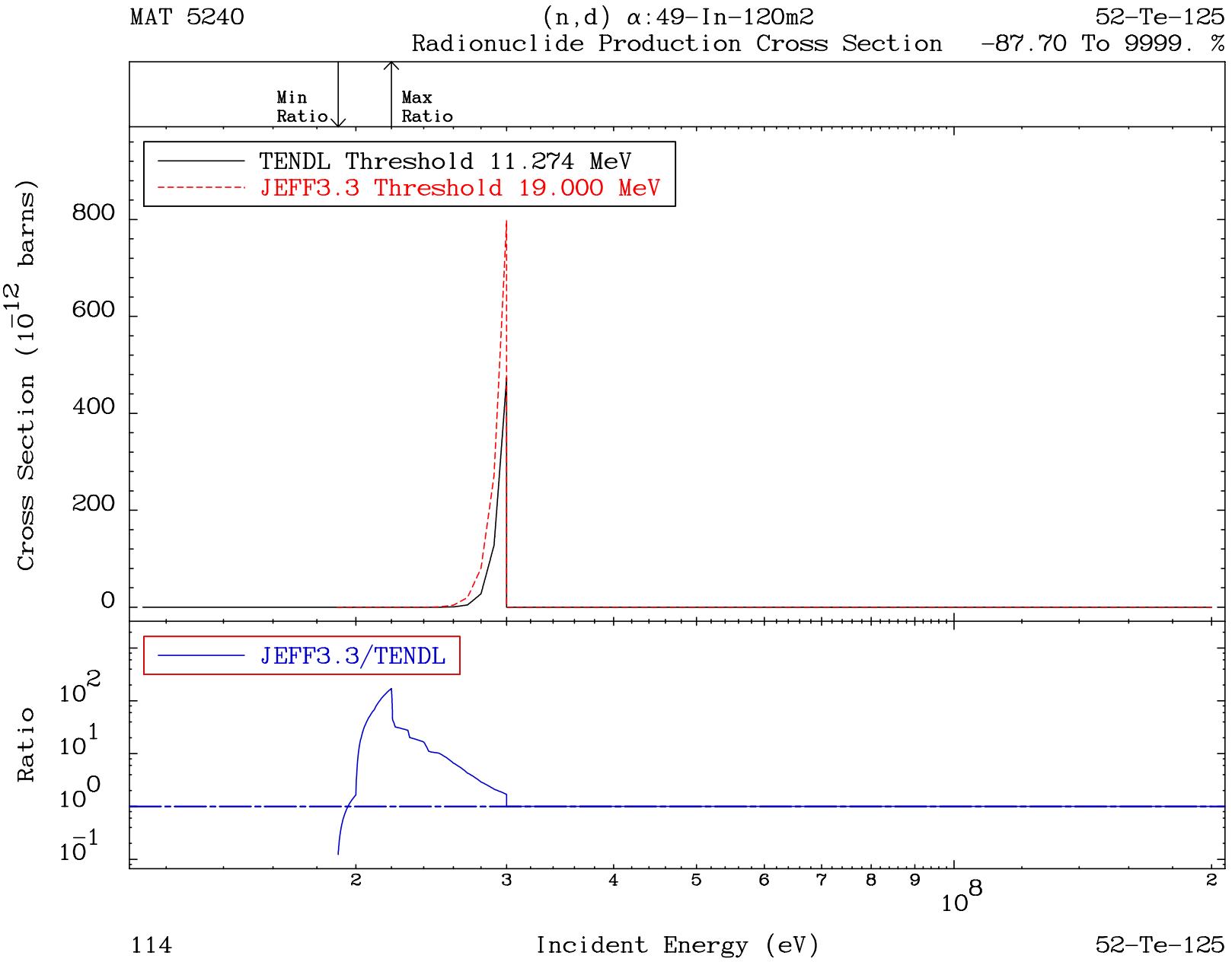

MAT 5240
(n,p) α:49-In-121m1
52-Te-125
Radionuclide Production Cross Section -11.11 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 13.000 MeV
JEFF3.3 Threshold 12.000 MeV
Cross Section ($10^{-9}$ barns)
160
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
$10^{2}$
$10^{1}$
$10^{0}$
2
3
4
5
6
7
8
9
$10^{8}$
2
109
Incident Energy (eV)
52-Te-125


MAT 5240
(n,p) d:50-Sn-123g
52-Te-125
Radionuclide Production Cross Section 0.000 To 185.5 %
Max Ratio
Min Ratio
TENDL Threshold 13.670 MeV
JEFF3.3 Threshold 13.670 MeV
Cross Section ($10^{-9}$ barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
9
$10^8$
2
110
Incident Energy (eV)
52-Te-125


MAT 5240
(n,p) d:50-Sn-123m1
52-Te-125
Radionuclide Production Cross Section -34.38 To 226.6 %
Max Ratio
Min Ratio
TENDL Threshold 13.695 MeV
JEFF3.3 Threshold 13.695 MeV
Cross Section ($10^{-9}$ barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
4.0
3.0
2.0
1.0
2
3
4
5
6
7
8
9
$10^8$
2
111
Incident Energy (eV)
52-Te-125


MAT 5240
(n,d) α:49-In-120g
52-Te-125
Radionuclide Production Cross Section
-87.73 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 10.870 MeV
JEFF3.3 Threshold 19.000 MeV
Cross Section ($10^{-9}$ barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
112
52-Te-125


MAT 5240
(n,d) α:49-In-120m1
52-Te-125
Radionuclide Production Cross Section -86.13 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 10.941 MeV
JEFF3.3 Threshold 19.000 MeV
Cross Section ($10^{-9}$ barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
$10^{2}$
$10^{1}$
$10^{0}$
$10^{-1}$
2
3
4
5
6
7
8
9
$10^{8}$
2
113
Incident Energy (eV)
52-Te-125


MAT 5240
(n,d) α:49-In-120m2
52-Te-125
Radionuclide Production Cross Section -87.70 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 11.274 MeV
JEFF3.3 Threshold 19.000 MeV
Cross Section ($10^{-12}$ barns)
800
600
400
200
0
JEFF3.3/TENDL
Ratio
$10^{2}$
$10^{1}$
$10^{0}$
$10^{-1}$
2
3
4
5
6
7
8
9
$10^{8}$
2
114
Incident Energy (eV)
52-Te-125