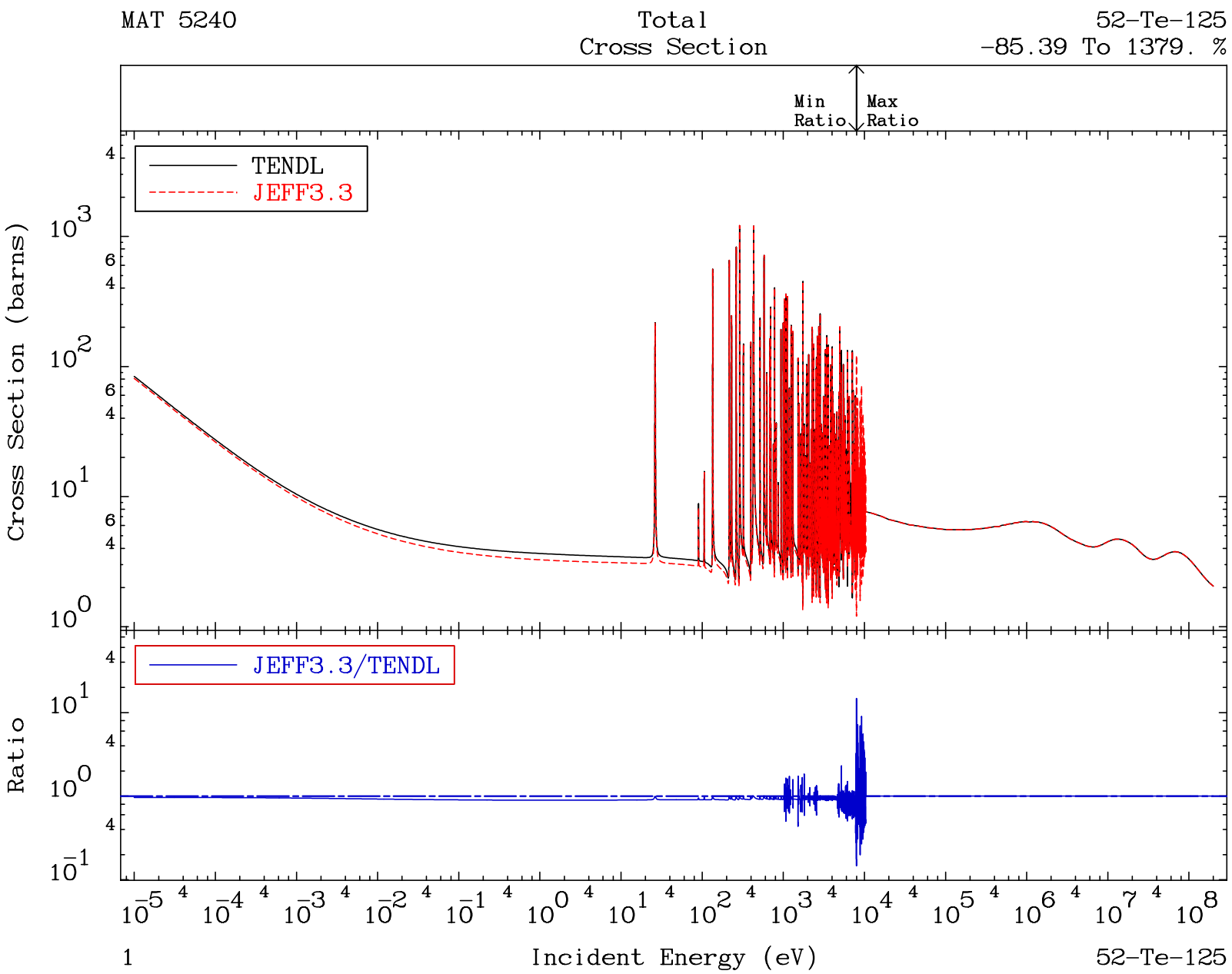
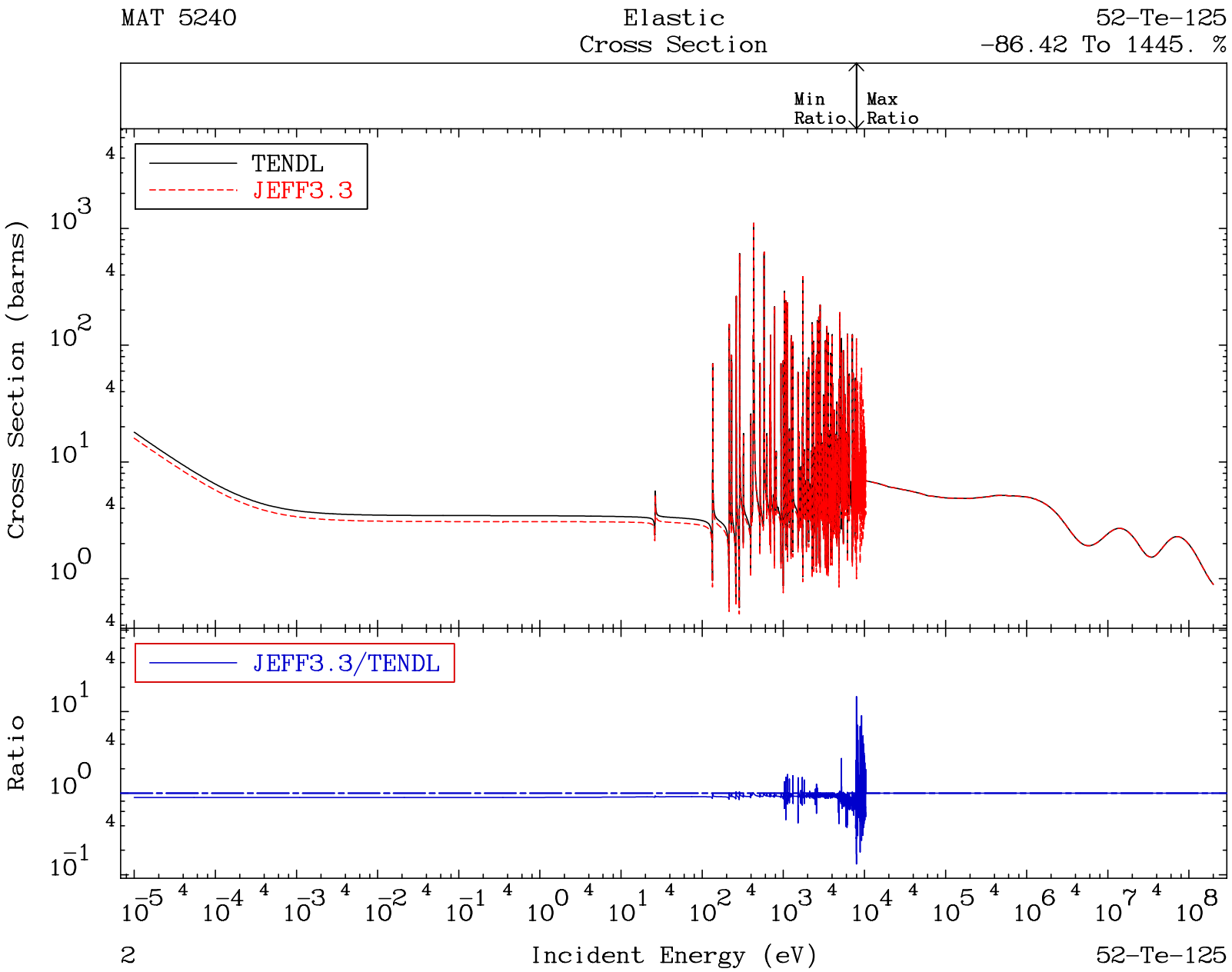
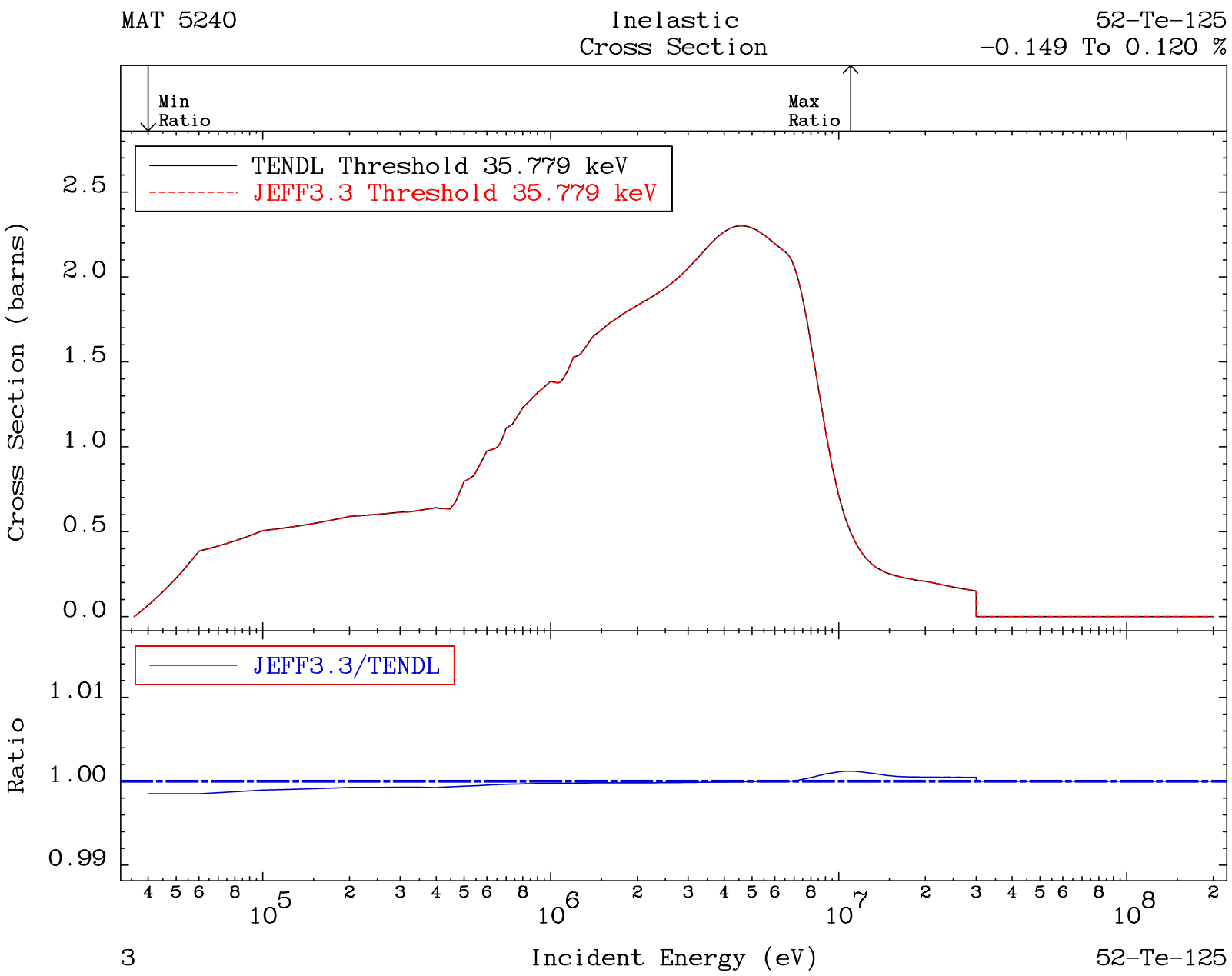
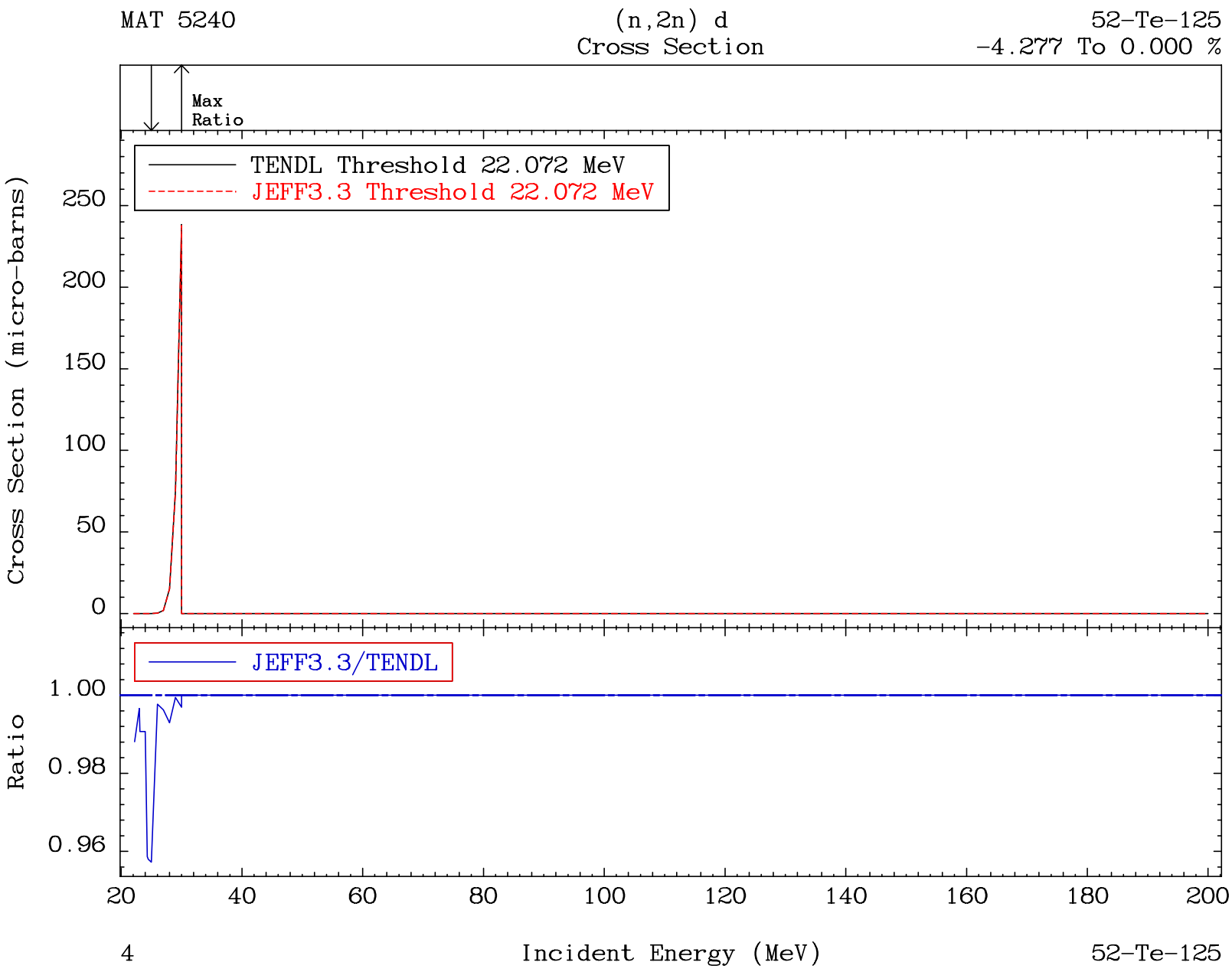
Program Complot
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

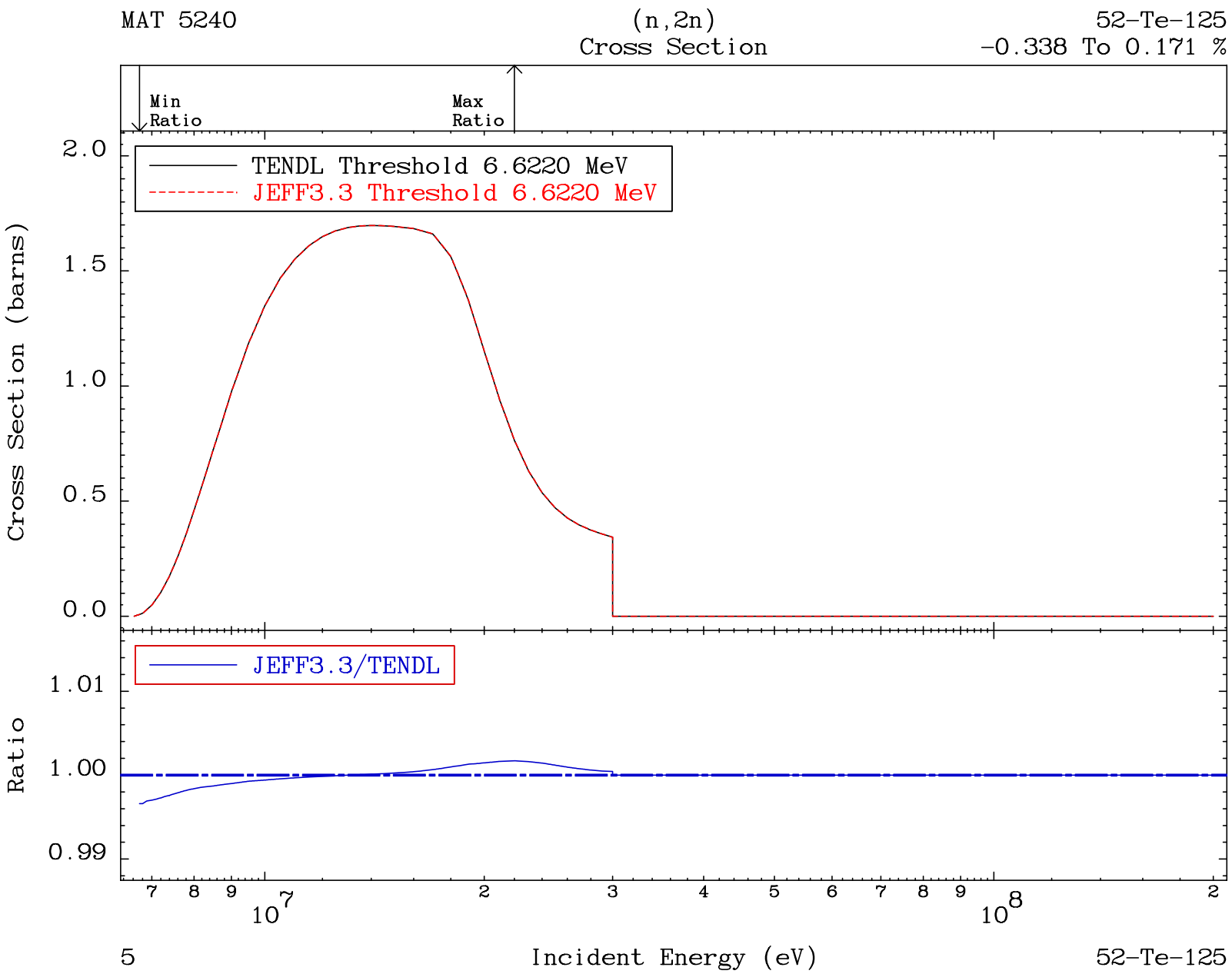
Press Mouse Button to Start

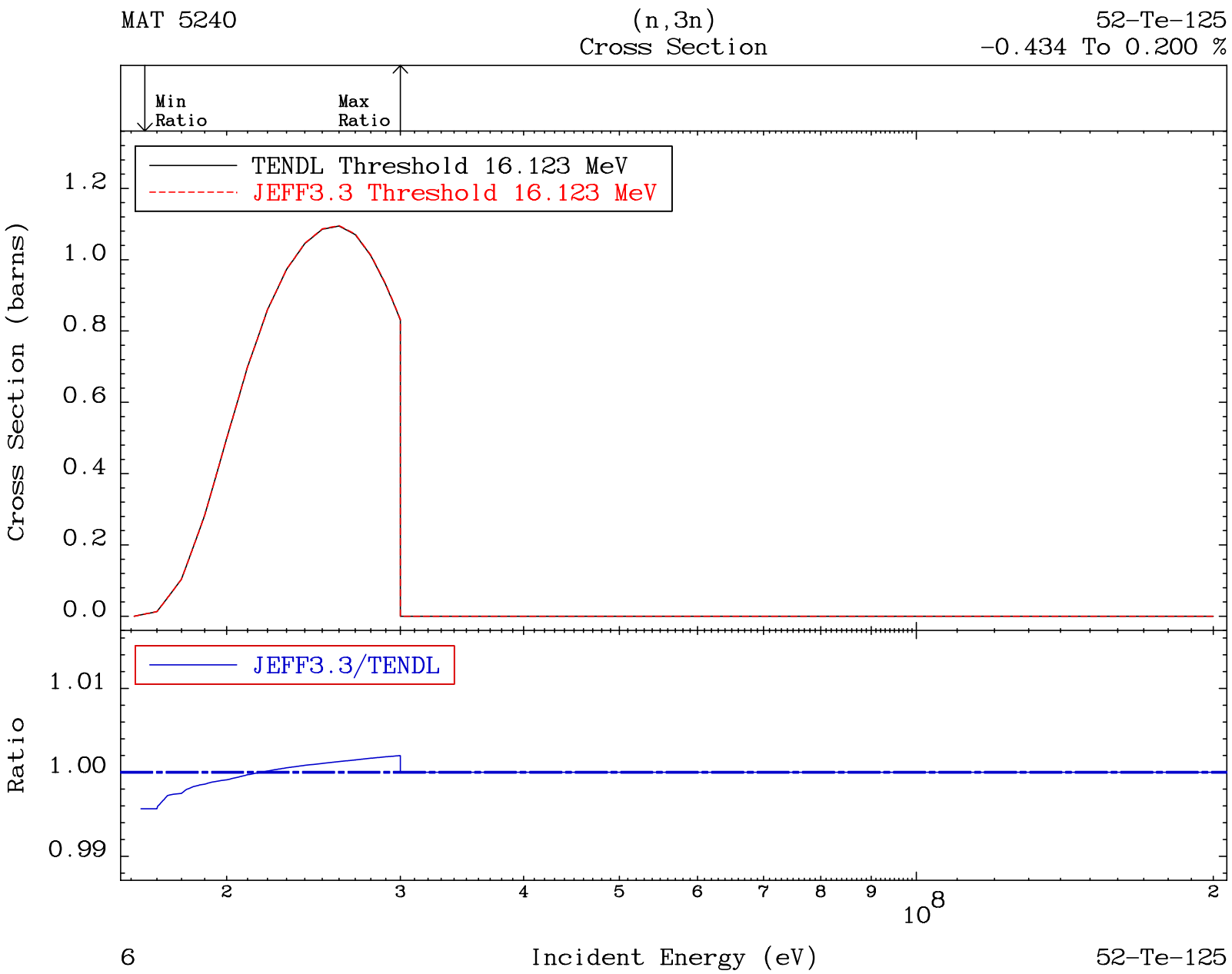

MAT 5240
Total
Cross Section
52-Te-125
-85.39 To 1379. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
1
52-Te-125

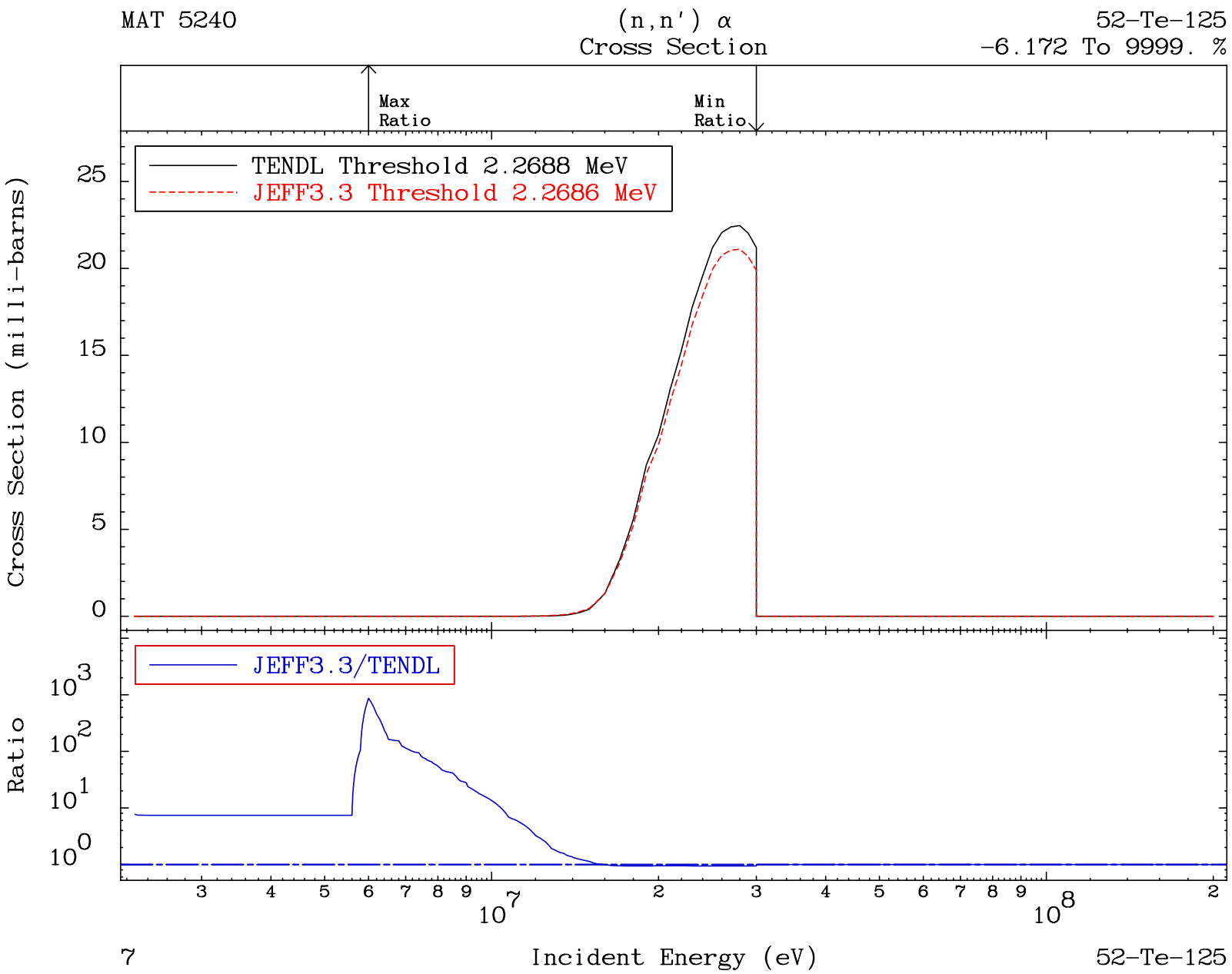

MAT 5240
Elastic
Cross Section
52-Te-125
-86.42 To 1445. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
2
52-Te-125

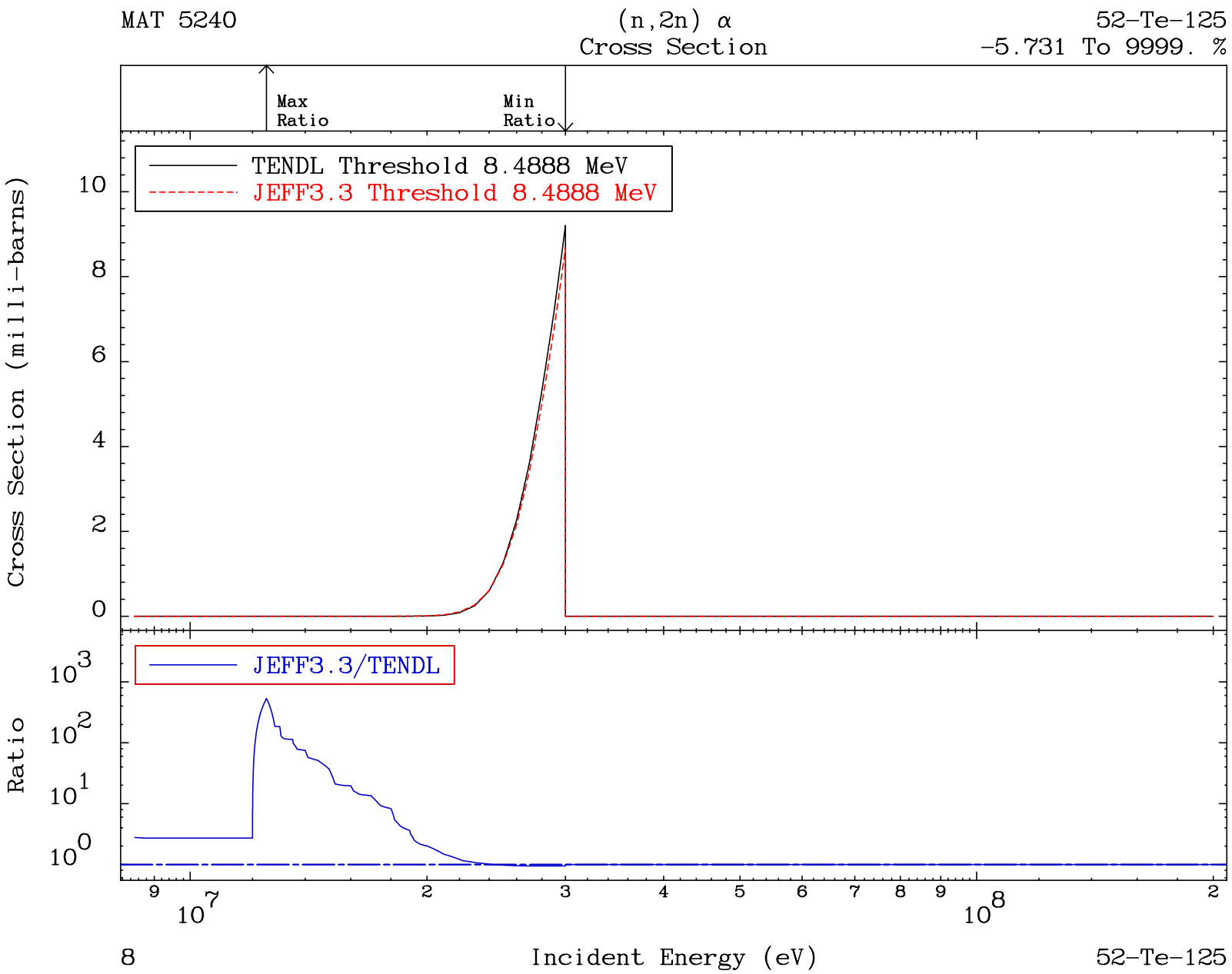

MAT 5240
Inelastic
Cross Section
52-Te-125
-0.149 To 0.120 %
Min
Ratio
Max
Ratio
TENDL Threshold 35.779 keV
JEFF3.3 Threshold 35.779 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
52-Te-125

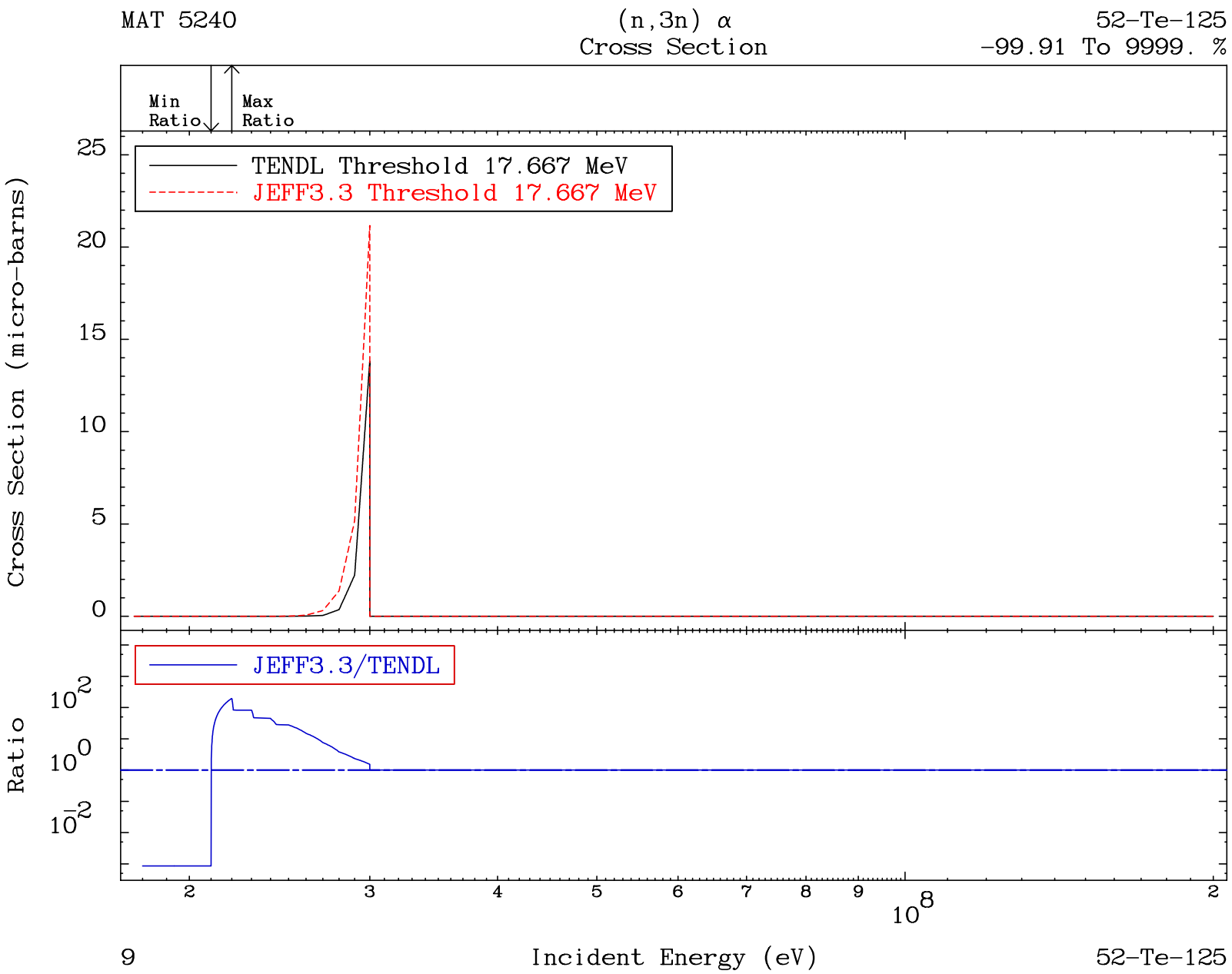

MAT 5240
(n,2n) d
Cross Section
52-Te-125
-4.277 To 0.000 %
Max
Ratio
TENDL Threshold 22.072 MeV
JEFF3.3 Threshold 22.072 MeV
Cross Section (micro-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.00
0.98
0.96
20
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
52-Te-125

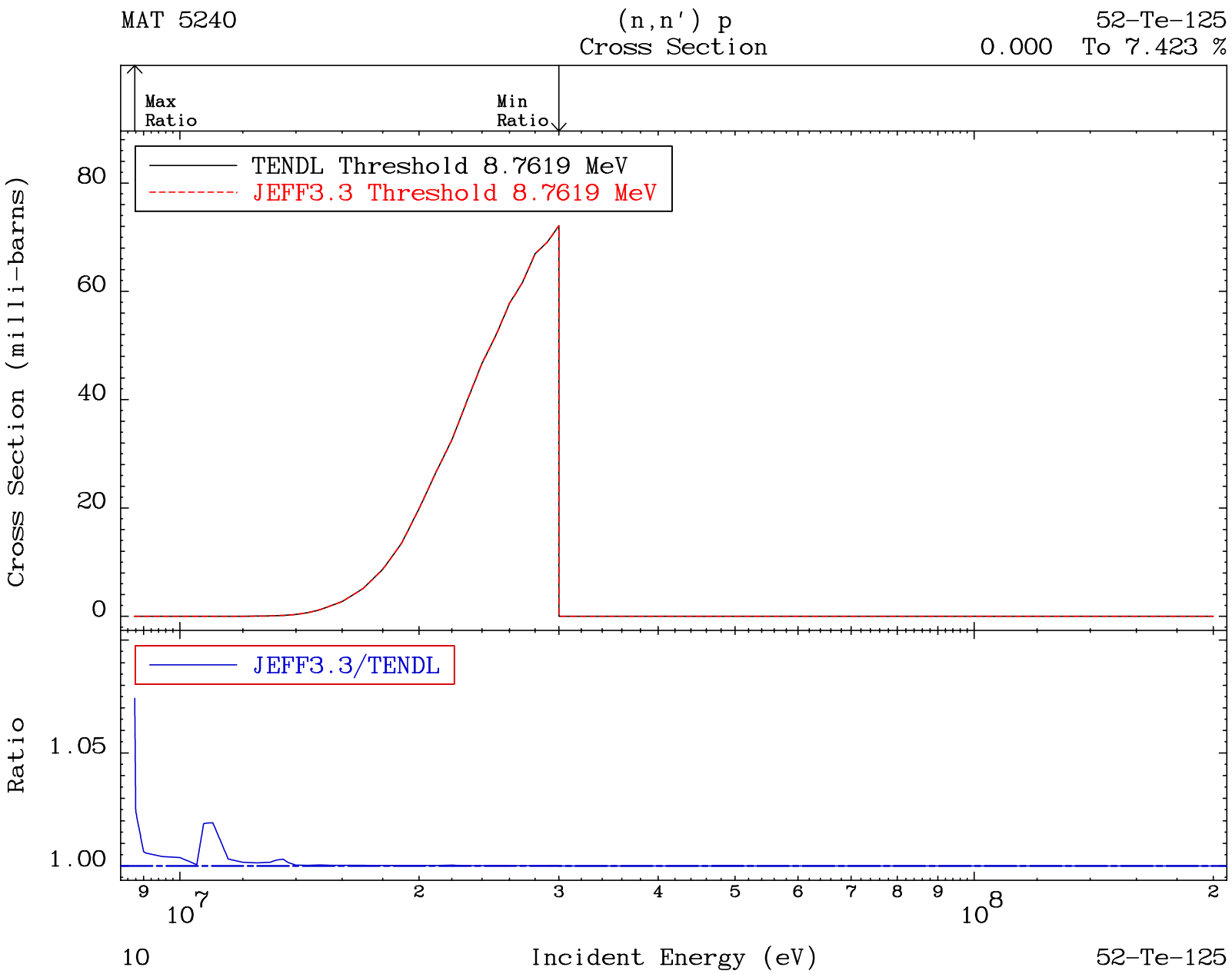

MAT 5240
(n,2n)
Cross Section
52-Te-125
-0.338 To 0.171 %
Min
Ratio
Max
Ratio
TENDL Threshold 6.6220 MeV
JEFF3.3 Threshold 6.6220 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
5
Incident Energy (eV)
52-Te-125

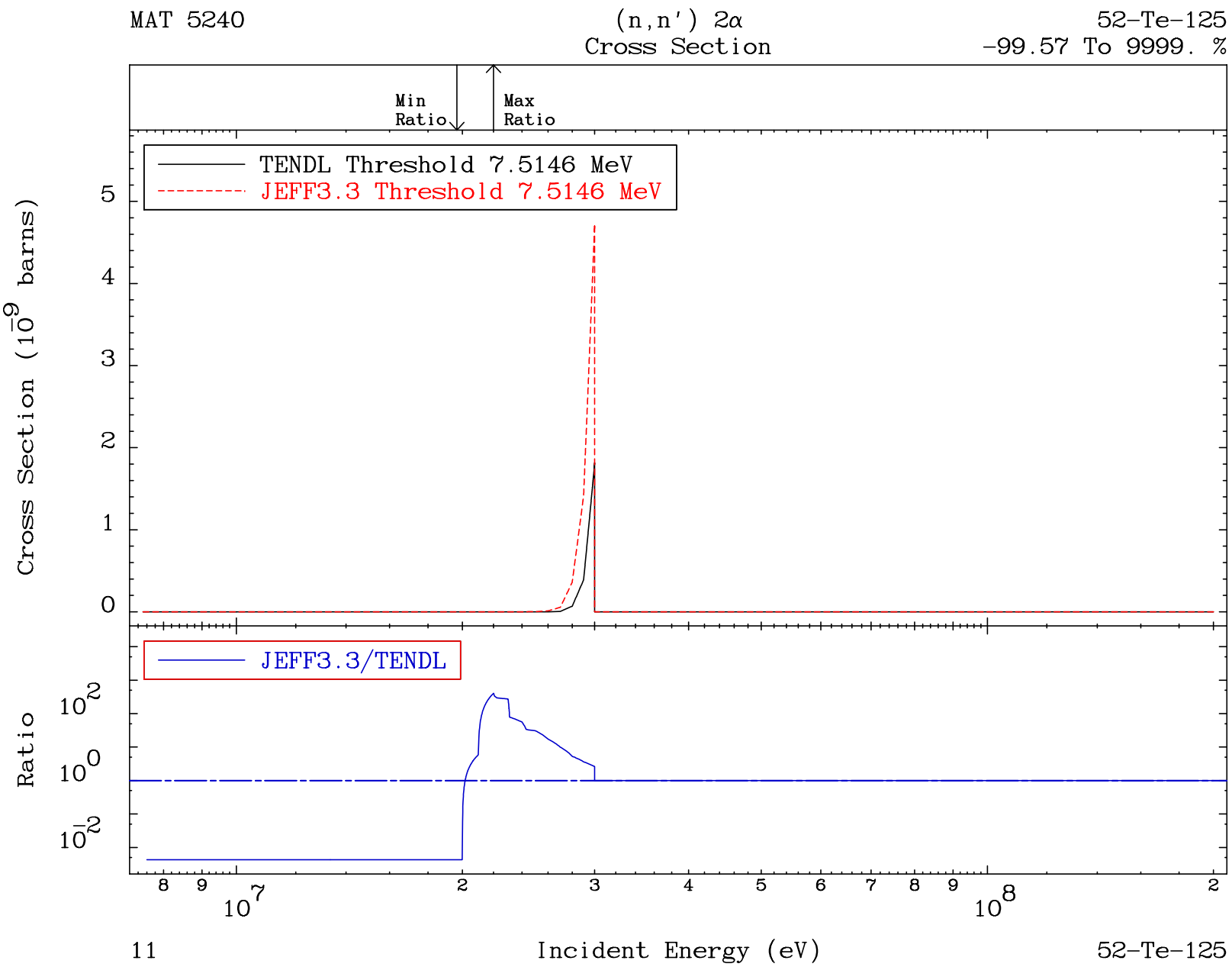

MAT 5240
(n,3n)
Cross Section
52-Te-125
-0.434 To 0.200 %
Min Ratio
Max Ratio
TENDL Threshold 16.123 MeV
JEFF3.3 Threshold 16.123 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
52-Te-125

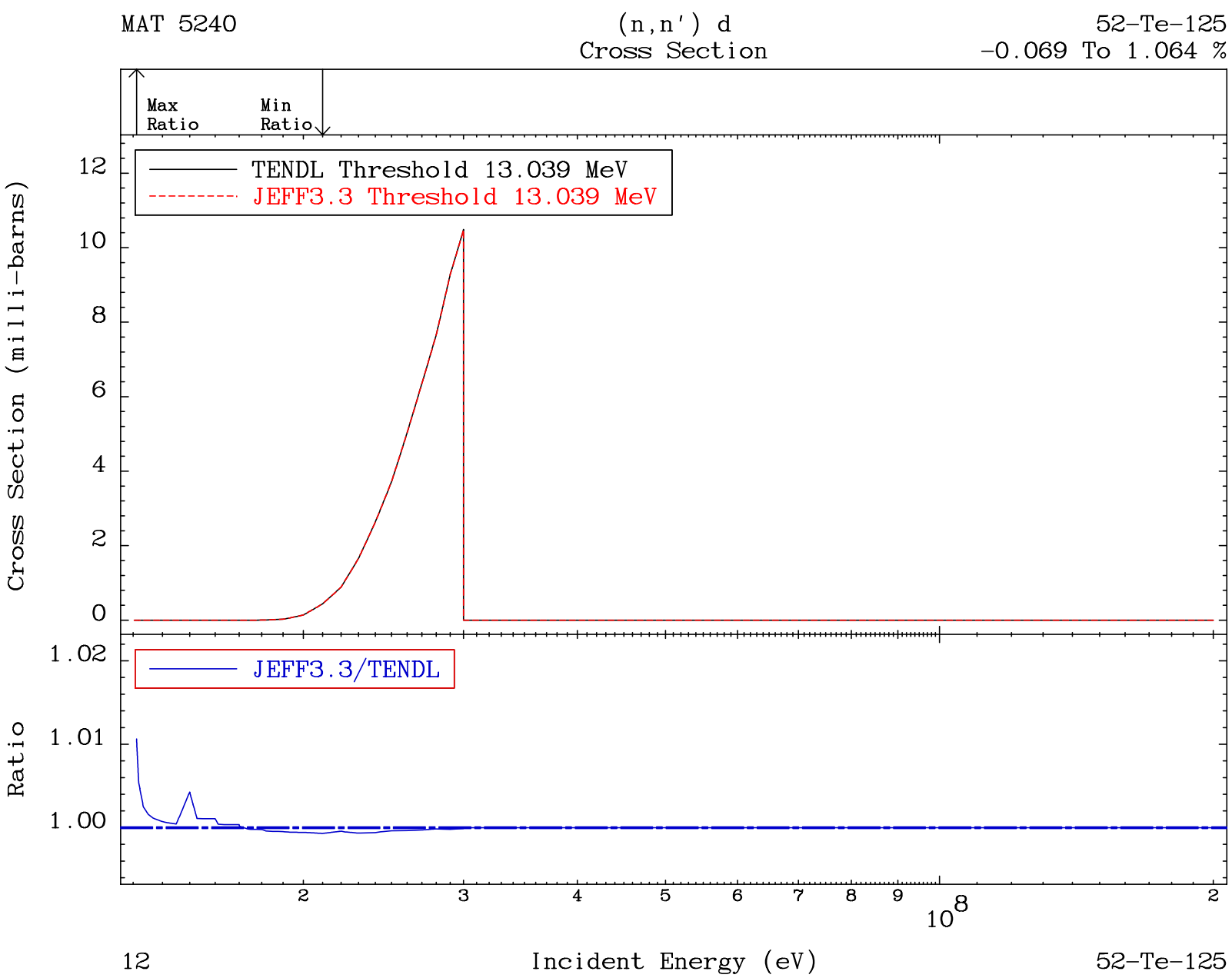

MAT 5240
(n,n') α
Cross Section
52-Te-125
-6.172 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.2688 MeV
JEFF3.3 Threshold 2.2686 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
52-Te-125
7

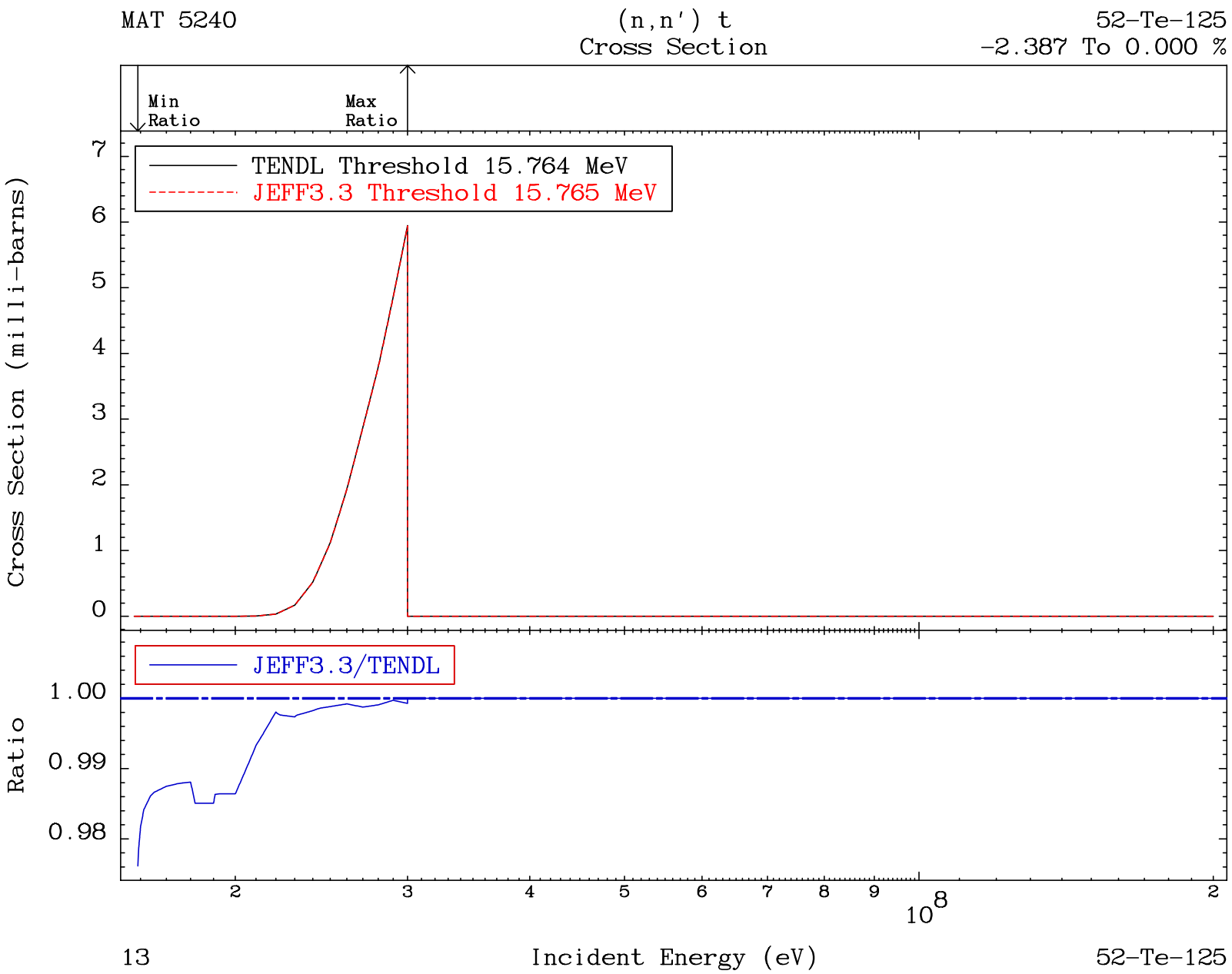

MAT 5240
(n,2n) α
Cross Section
52-Te-125
-5.731 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 8.4888 MeV
JEFF3.3 Threshold 8.4888 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
8
52-Te-125

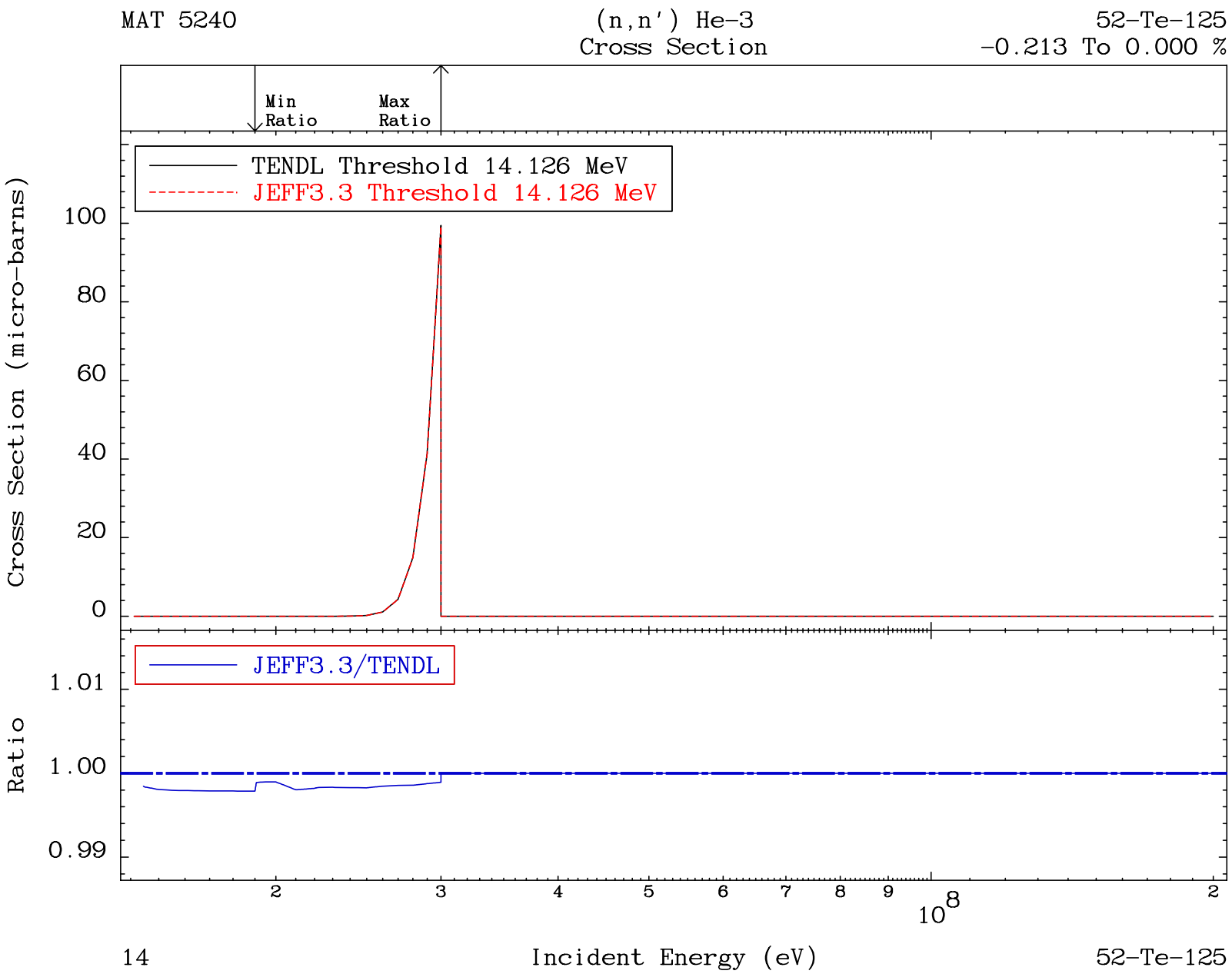

MAT 5240
(n,3n) α
Cross Section
52-Te-125
-99.91 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 17.667 MeV
JEFF3.3 Threshold 17.667 MeV
Cross Section (micro-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
52-Te-125

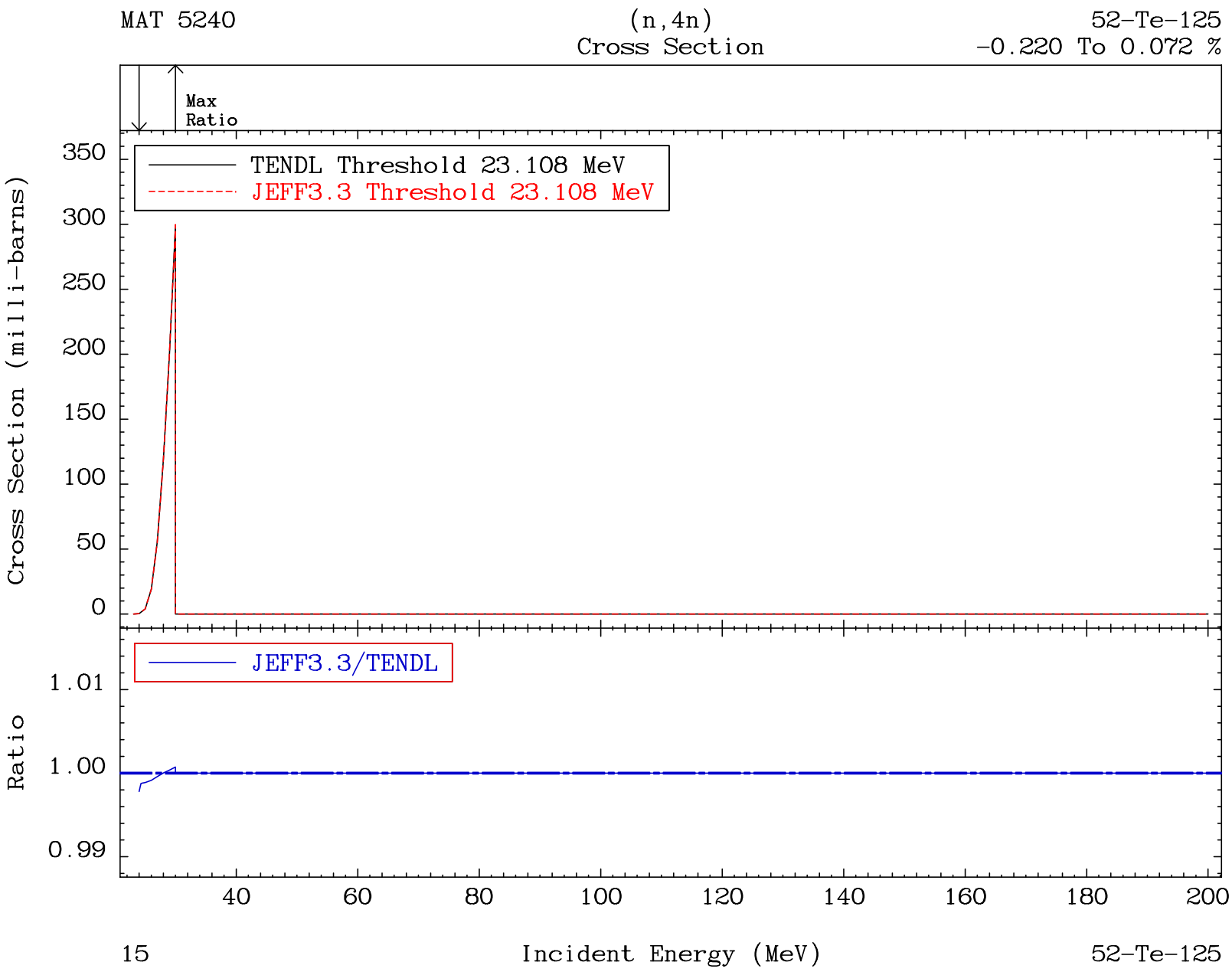

MAT 5240
(n,n') p
Cross Section
52-Te-125
0.000 To 7.423 %
Max Ratio
Min Ratio
TENDL Threshold 8.7619 MeV
JEFF3.3 Threshold 8.7619 MeV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.05
1.00
9
10^7
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
52-Te-125

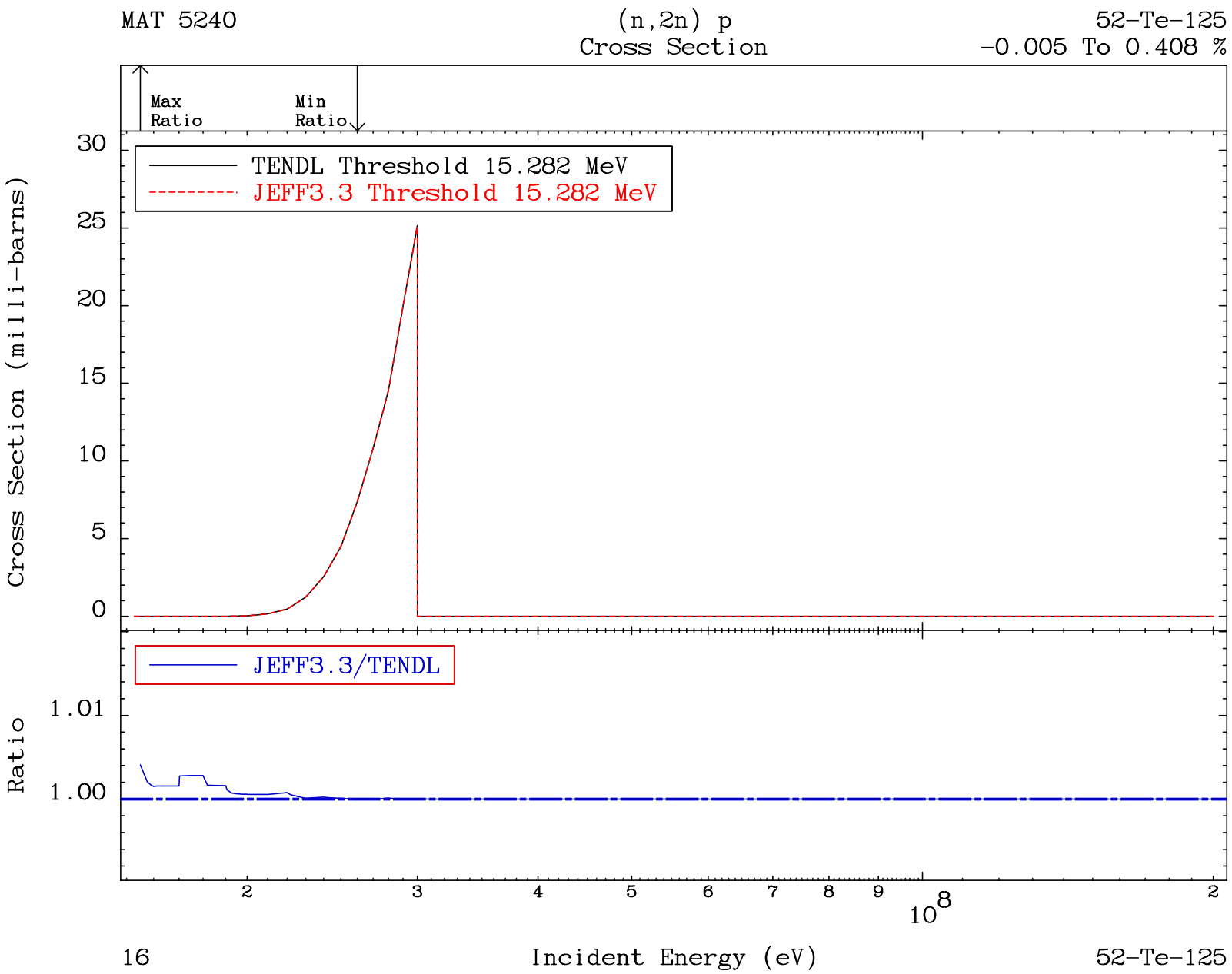

MAT 5240
(n,n') 2α
Cross Section
52-Te-125
-99.57 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.5146 MeV
JEFF3.3 Threshold 7.5146 MeV
Cross Section (10^-9 barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
11
52-Te-125

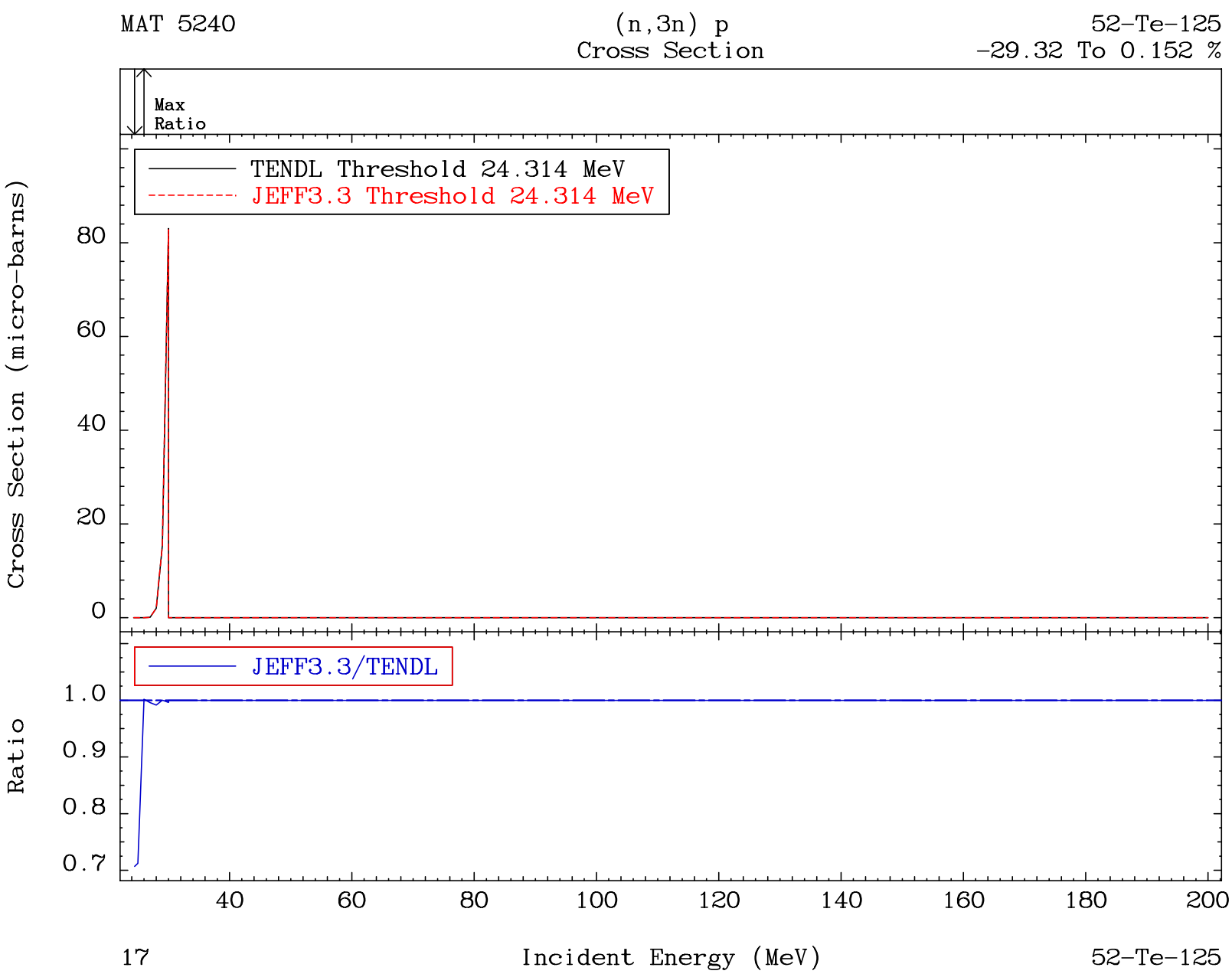

MAT 5240
(n,n') d
Cross Section
52-Te-125
-0.069 To 1.064 %
Max Ratio
Min Ratio
TENDL Threshold 13.039 MeV
JEFF3.3 Threshold 13.039 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
52-Te-125

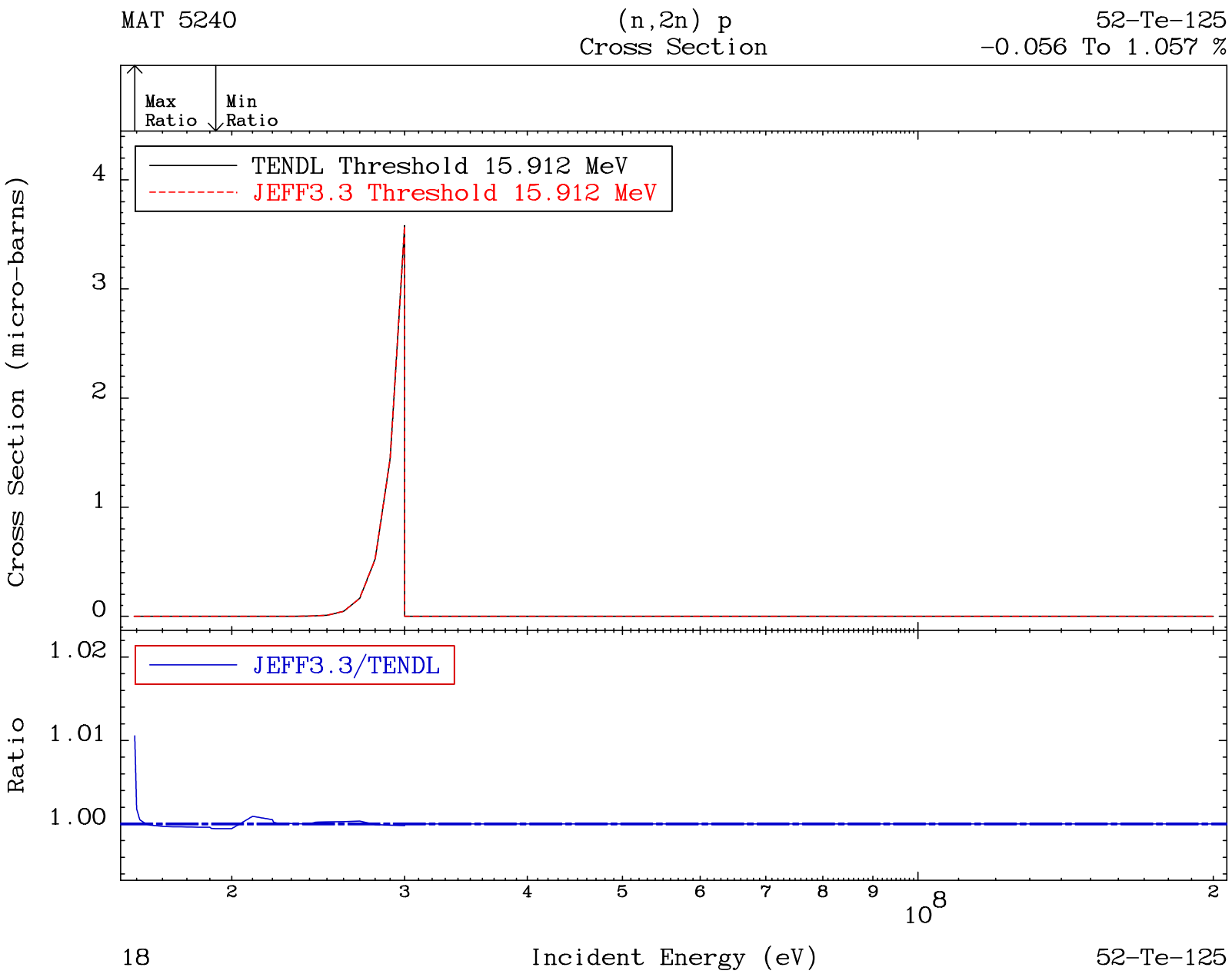

MAT 5240
(n,n') t
Cross Section
52-Te-125
-2.387 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 15.764 MeV
JEFF3.3 Threshold 15.765 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
JEFF3.3/TENDL
Ratio
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
52-Te-125

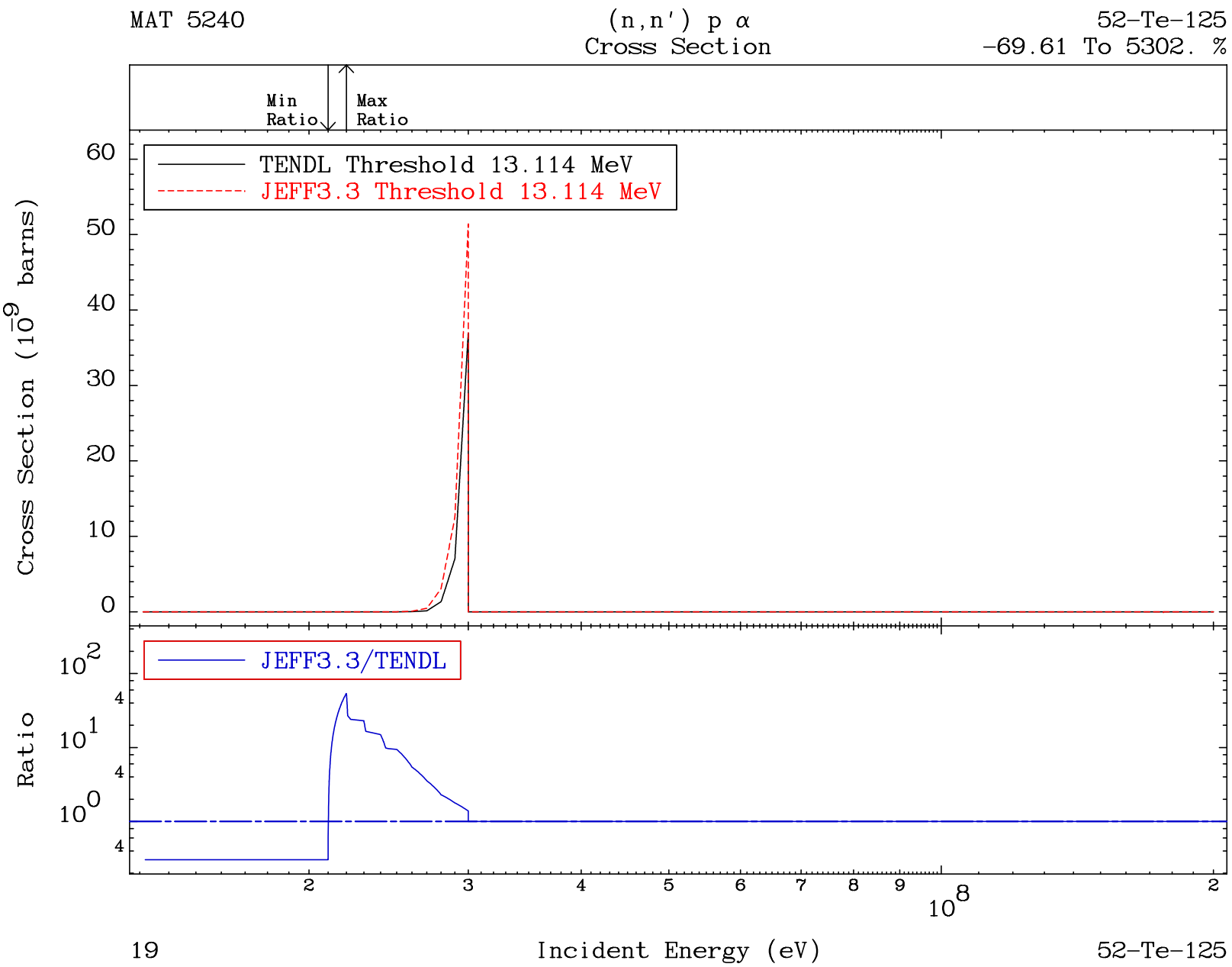

MAT 5240
(n,n') He-3
Cross Section
52-Te-125
-0.213 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 14.126 MeV
JEFF3.3 Threshold 14.126 MeV
Cross Section (micro-barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
52-Te-125

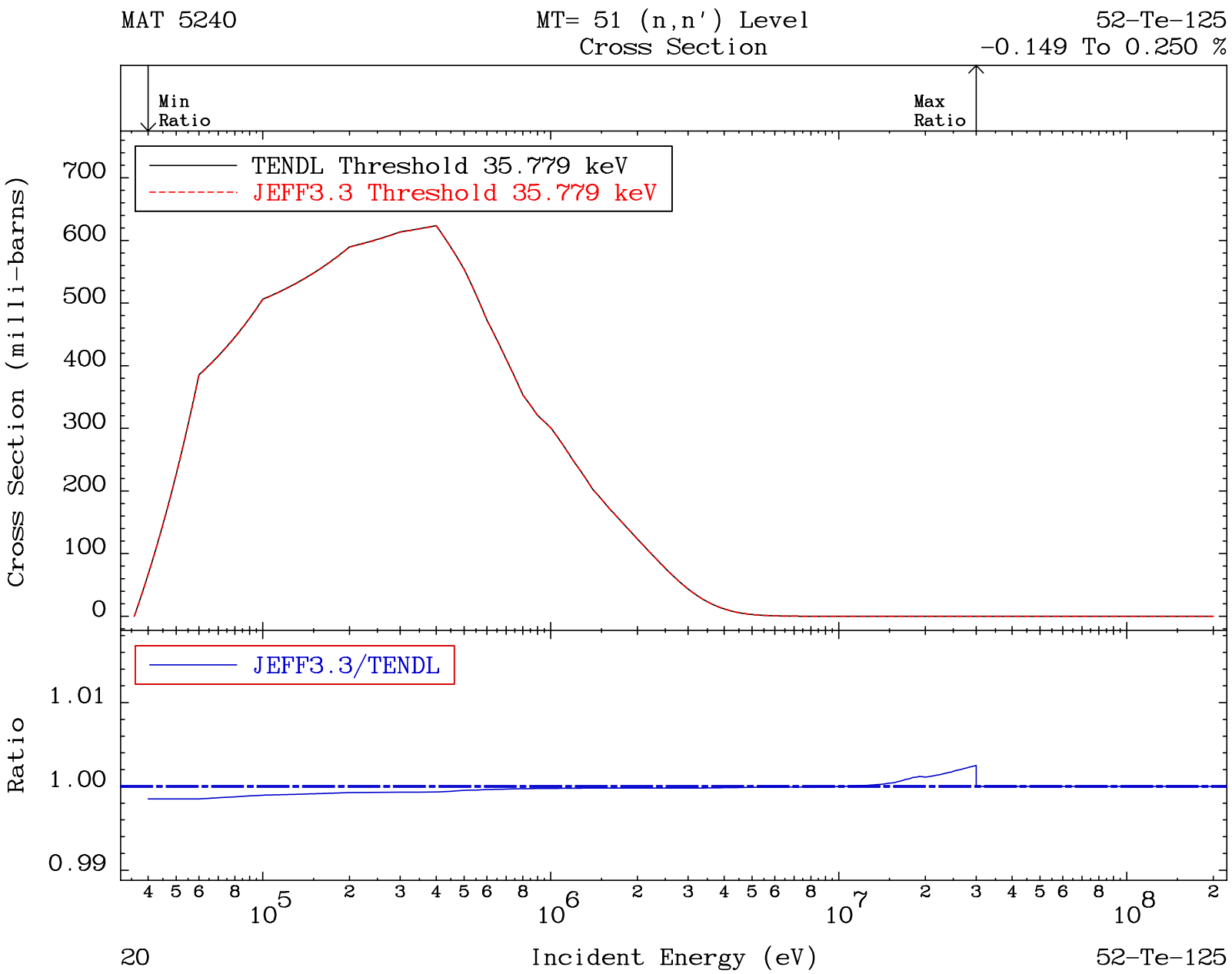

MAT 5240
(n,4n)
Cross Section
52-Te-125
-0.220 To 0.072 %
Max
Ratio
TENDL Threshold 23.108 MeV
JEFF3.3 Threshold 23.108 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
15
Incident Energy (MeV)
52-Te-125

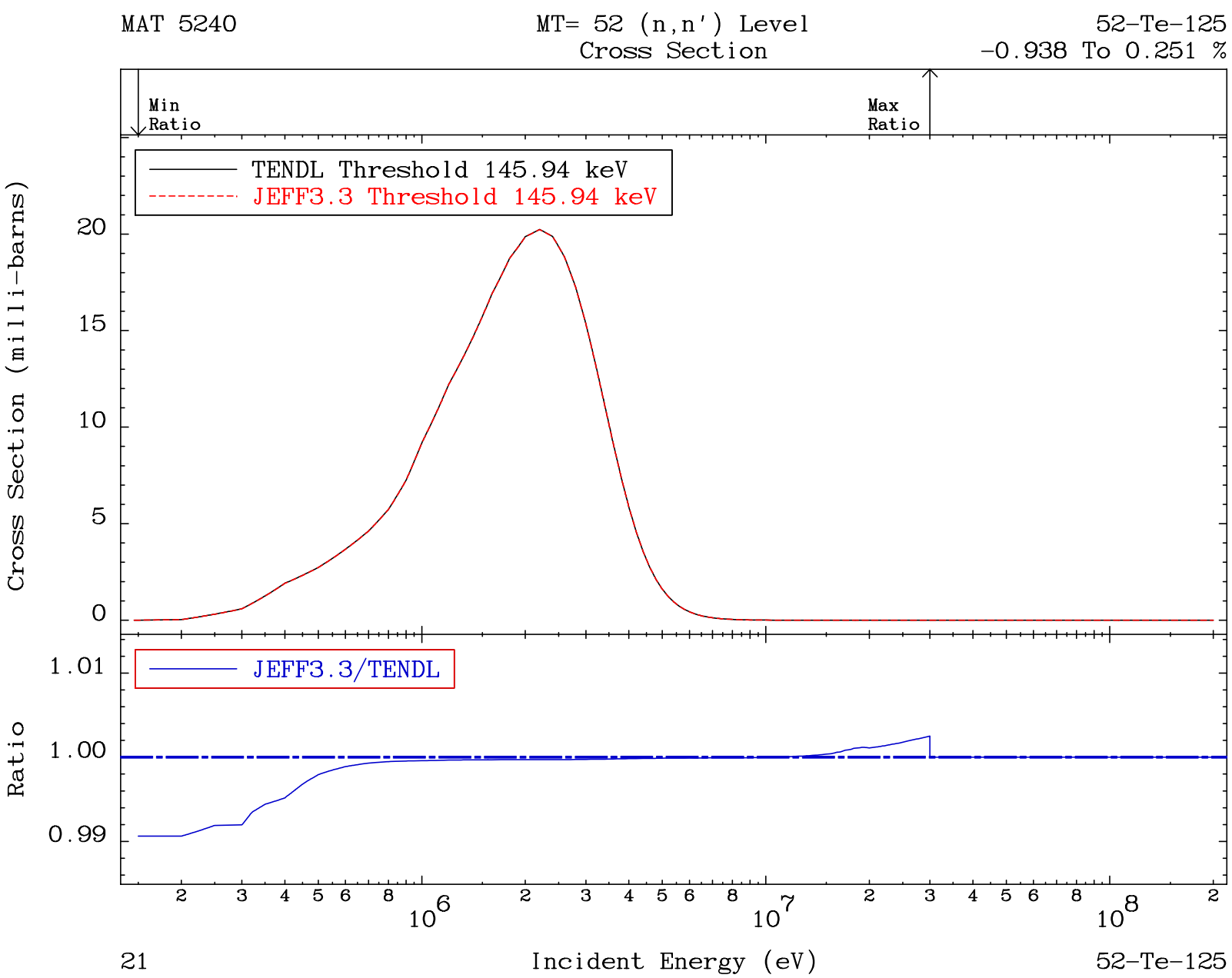

MAT 5240
(n,2n) p
Cross Section
52-Te-125
-0.005 To 0.408 %
Max Ratio
Min Ratio
TENDL Threshold 15.282 MeV
JEFF3.3 Threshold 15.282 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
16
Incident Energy (eV)
52-Te-125

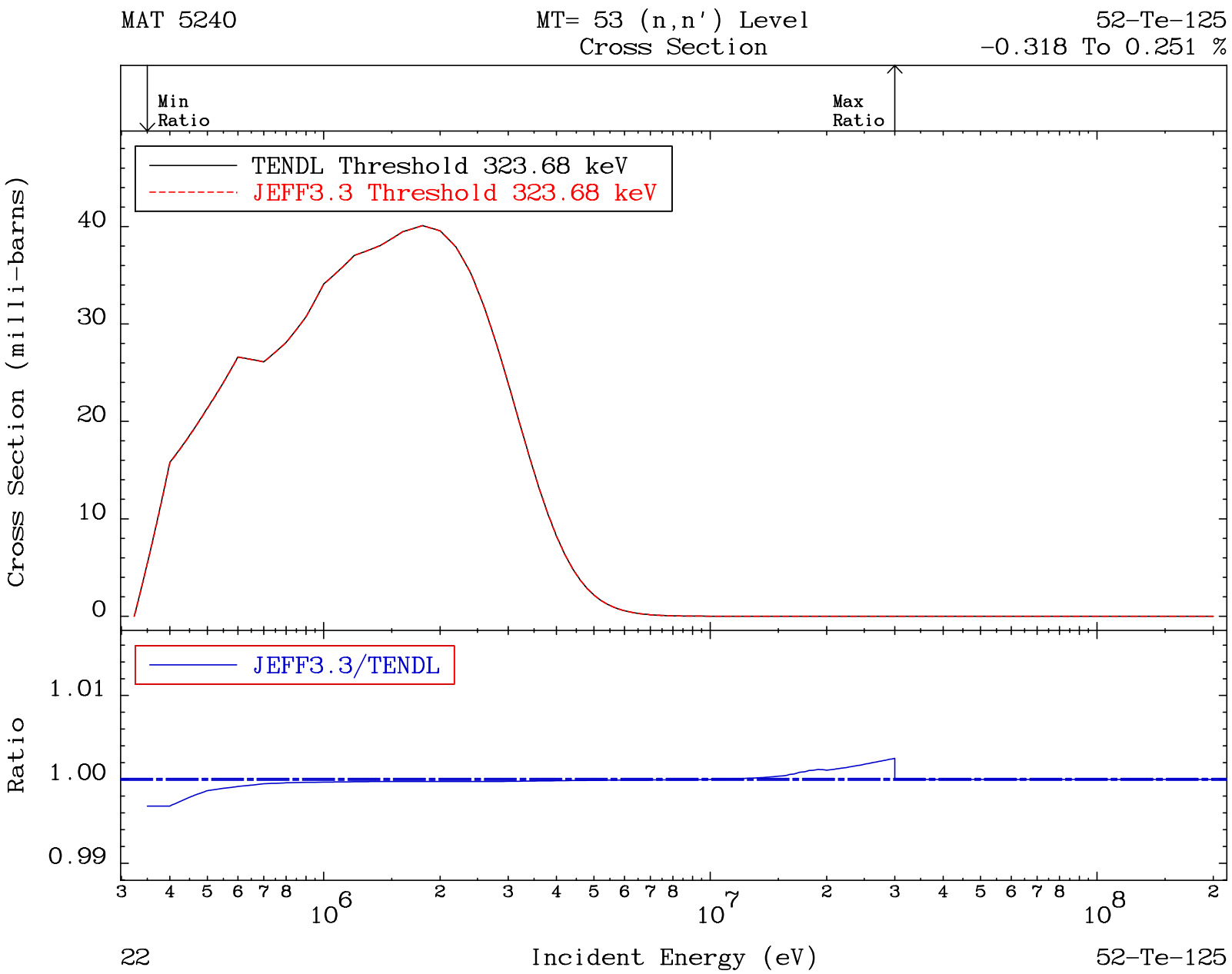

MAT 5240
(n,3n) p
Cross Section
52-Te-125
-29.32 To 0.152 %
Max
Ratio
TENDL Threshold 24.314 MeV
JEFF3.3 Threshold 24.314 MeV
Cross Section (micro-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.0
0.9
0.8
0.7
40
60
80
100
120
140
160
180
200
17
Incident Energy (MeV)
52-Te-125

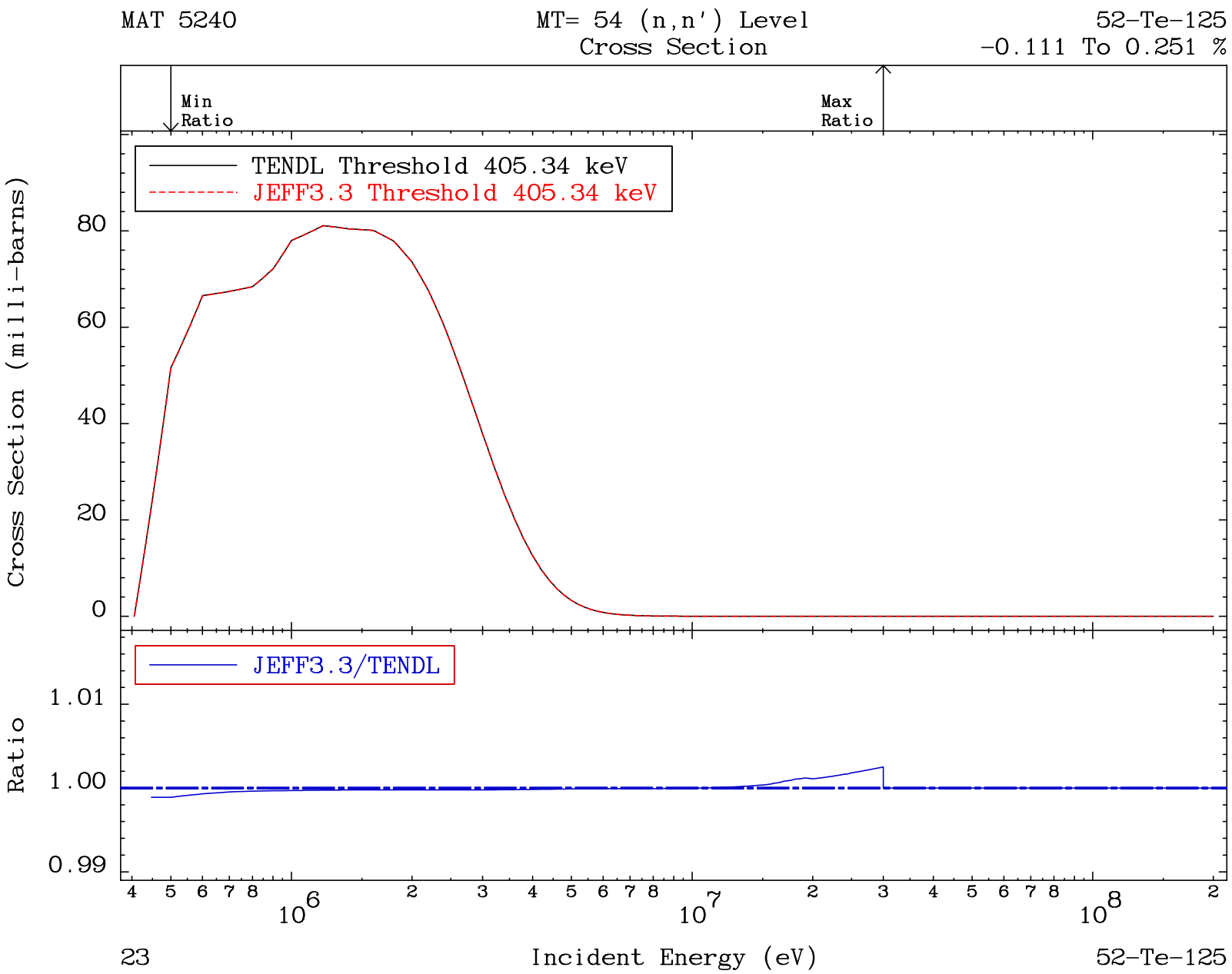

MAT 5240
(n,2n) p
Cross Section
52-Te-125
-0.056 To 1.057 %
Max Ratio
Min Ratio
TENDL Threshold 15.912 MeV
JEFF3.3 Threshold 15.912 MeV
Cross Section (micro-barns)
0
1
2
3
4
JEFF3.3/TENDL
Ratio
1.00
1.01
1.02
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
52-Te-125

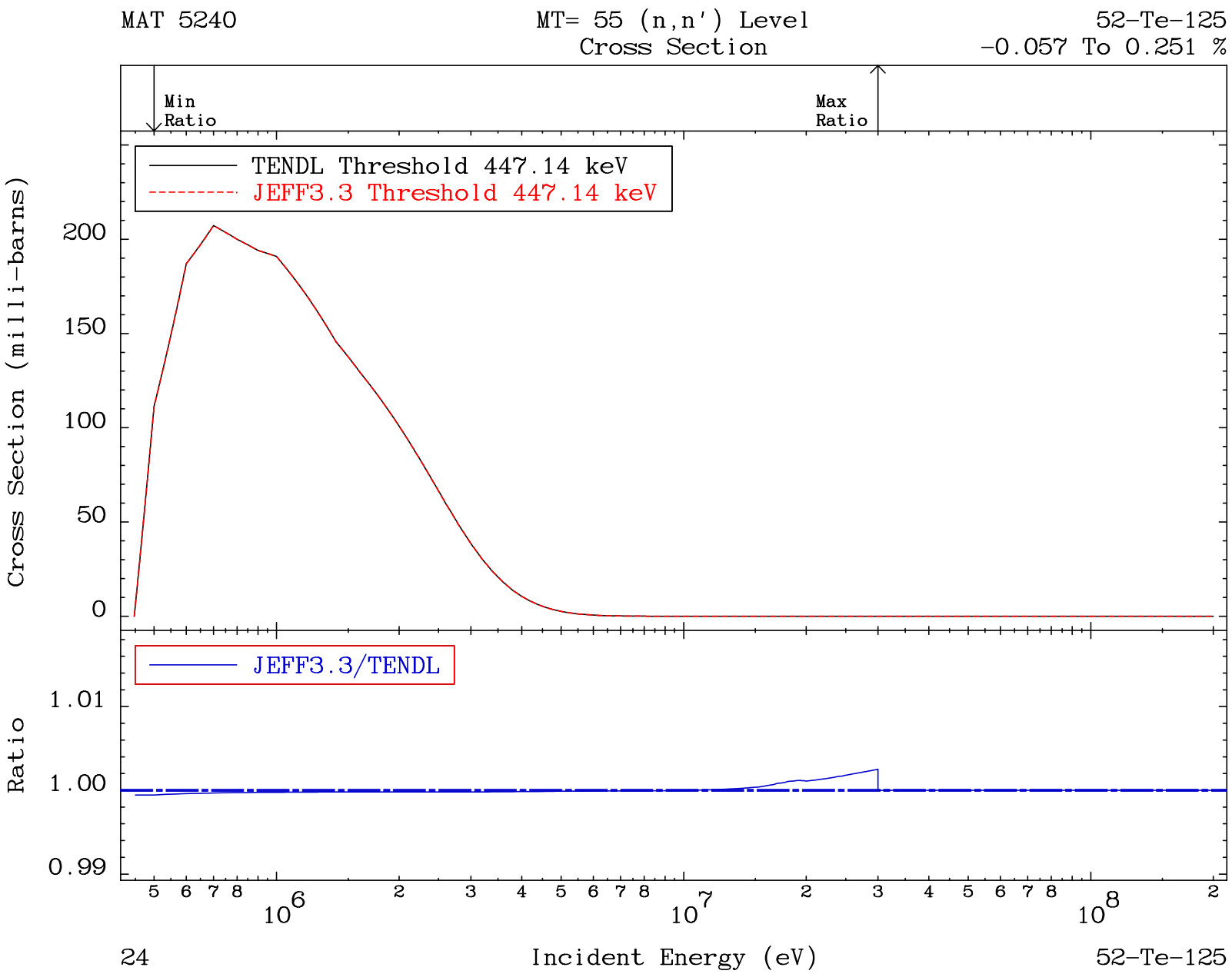

MAT 5240
(n,n') p α
Cross Section
52-Te-125
-69.61 To 5302. %
Min Ratio
Max Ratio
TENDL Threshold 13.114 MeV
JEFF3.3 Threshold 13.114 MeV
Cross Section (10^-9 barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
52-Te-125

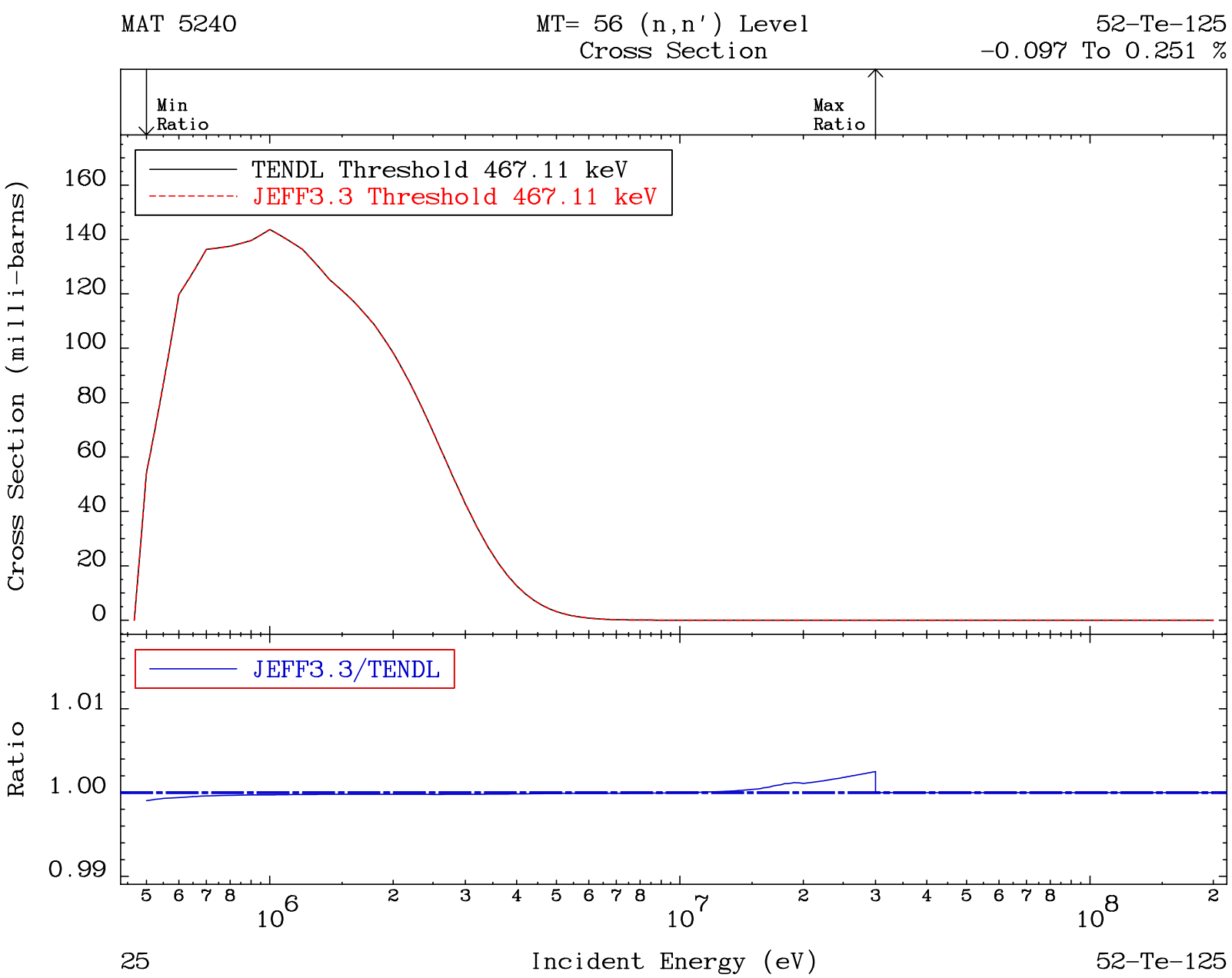

MAT 5240
MT= 51 (n,n') Level
Cross Section
52-Te-125
-0.149 To 0.250 %
Min
Ratio
Max
Ratio
TENDL Threshold 35.779 keV
JEFF3.3 Threshold 35.779 keV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
20
Incident Energy (eV)
52-Te-125

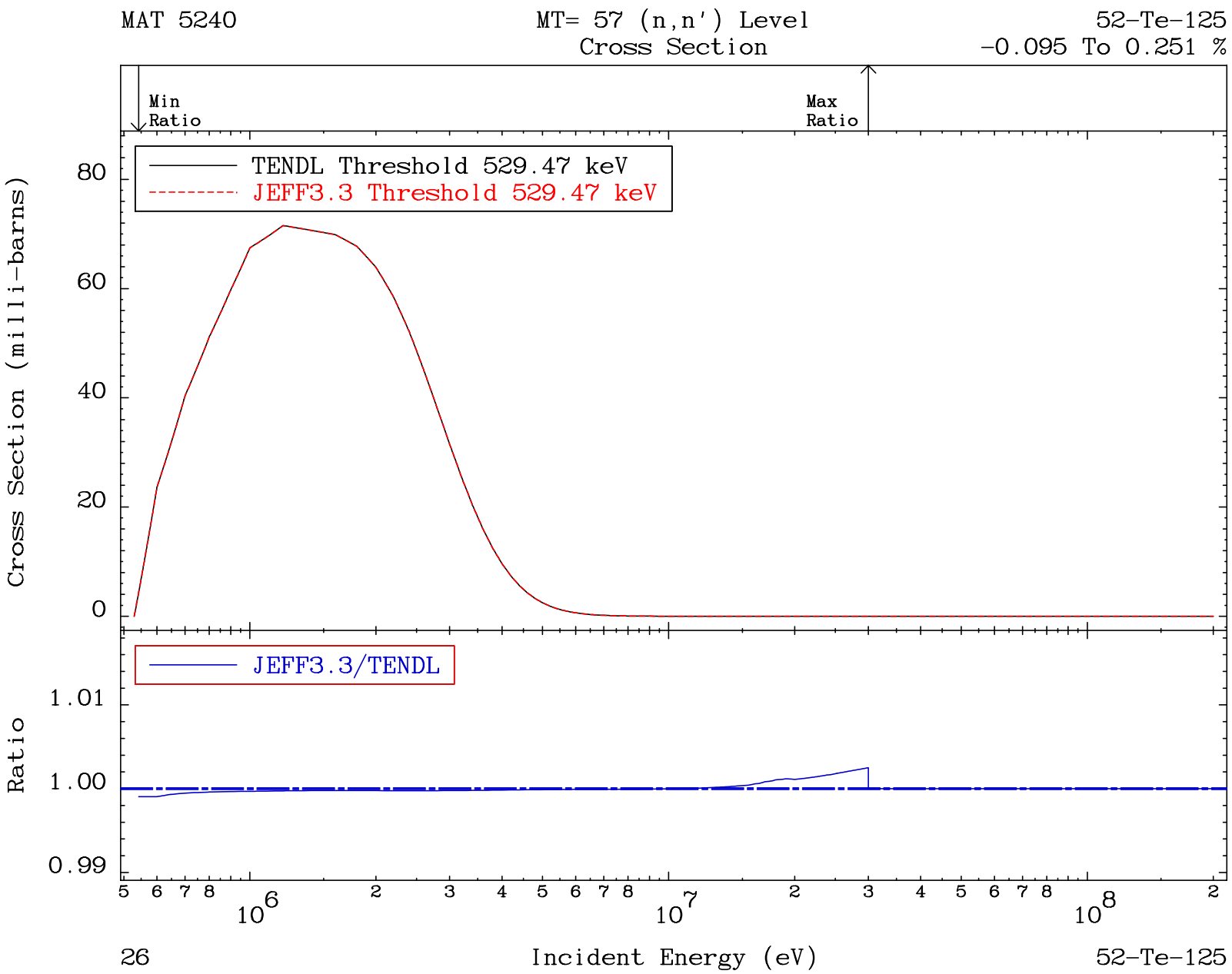

MAT 5240
MT= 52 (n,n') Level
Cross Section
52-Te-125
-0.938 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 145.94 keV
JEFF3.3 Threshold 145.94 keV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
8
10^6
10^7
10^8
21
Incident Energy (eV)
52-Te-125

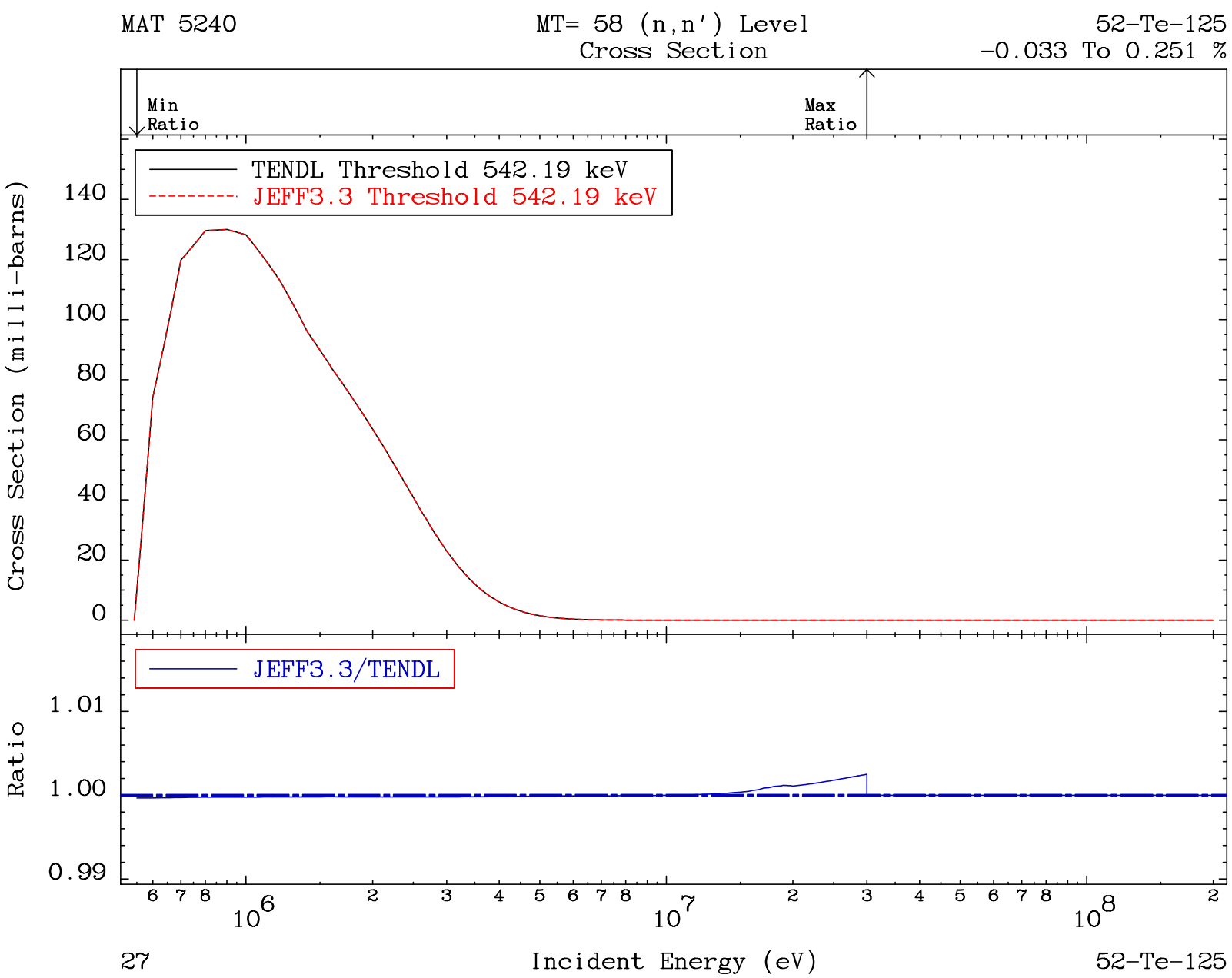

MAT 5240
MT= 53 (n,n') Level
Cross Section
52-Te-125
-0.318 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 323.68 keV
JEFF3.3 Threshold 323.68 keV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
52-Te-125

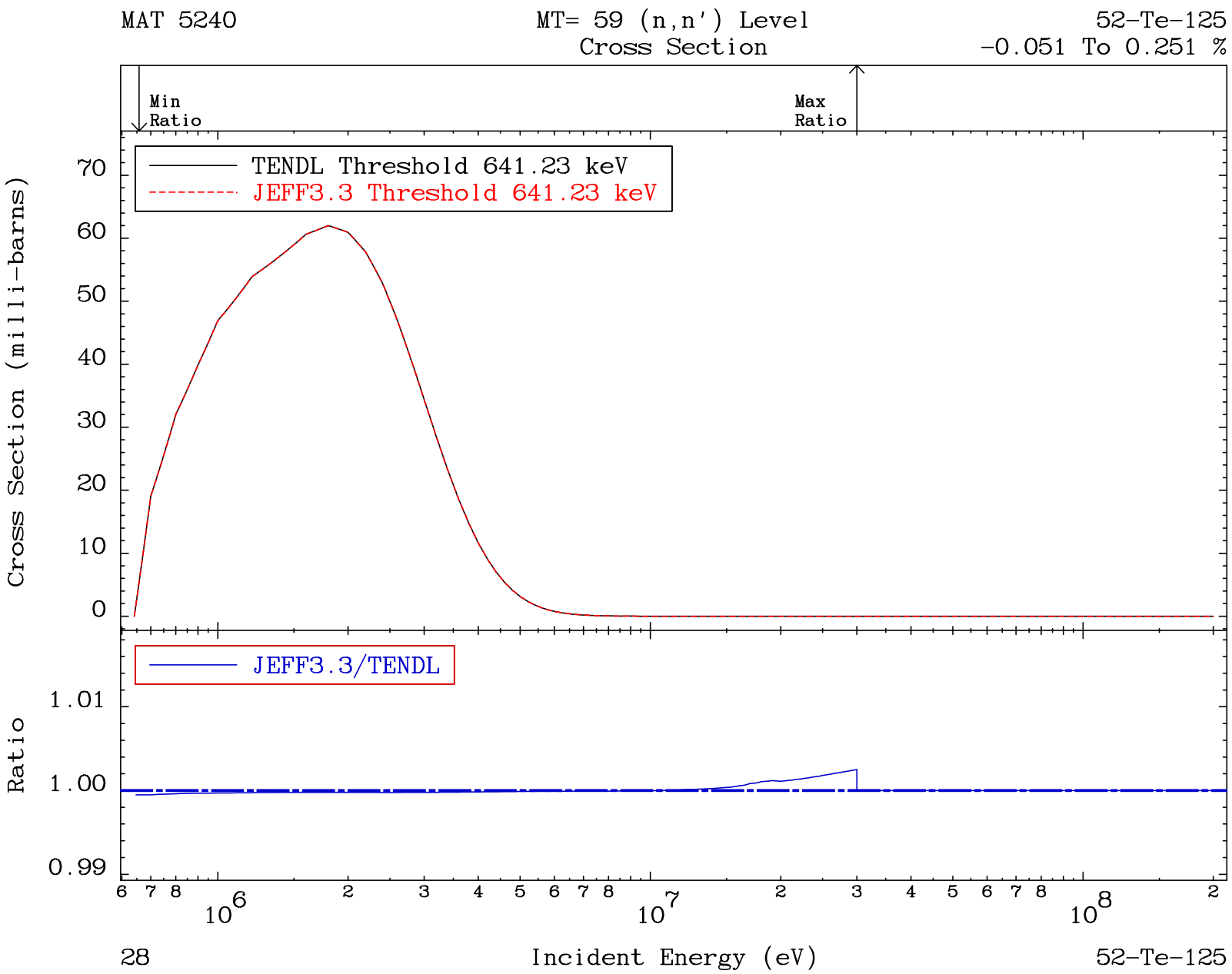

MAT 5240
MT= 54 (n,n') Level
Cross Section
52-Te-125
-0.111 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 405.34 keV
JEFF3.3 Threshold 405.34 keV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
52-Te-125

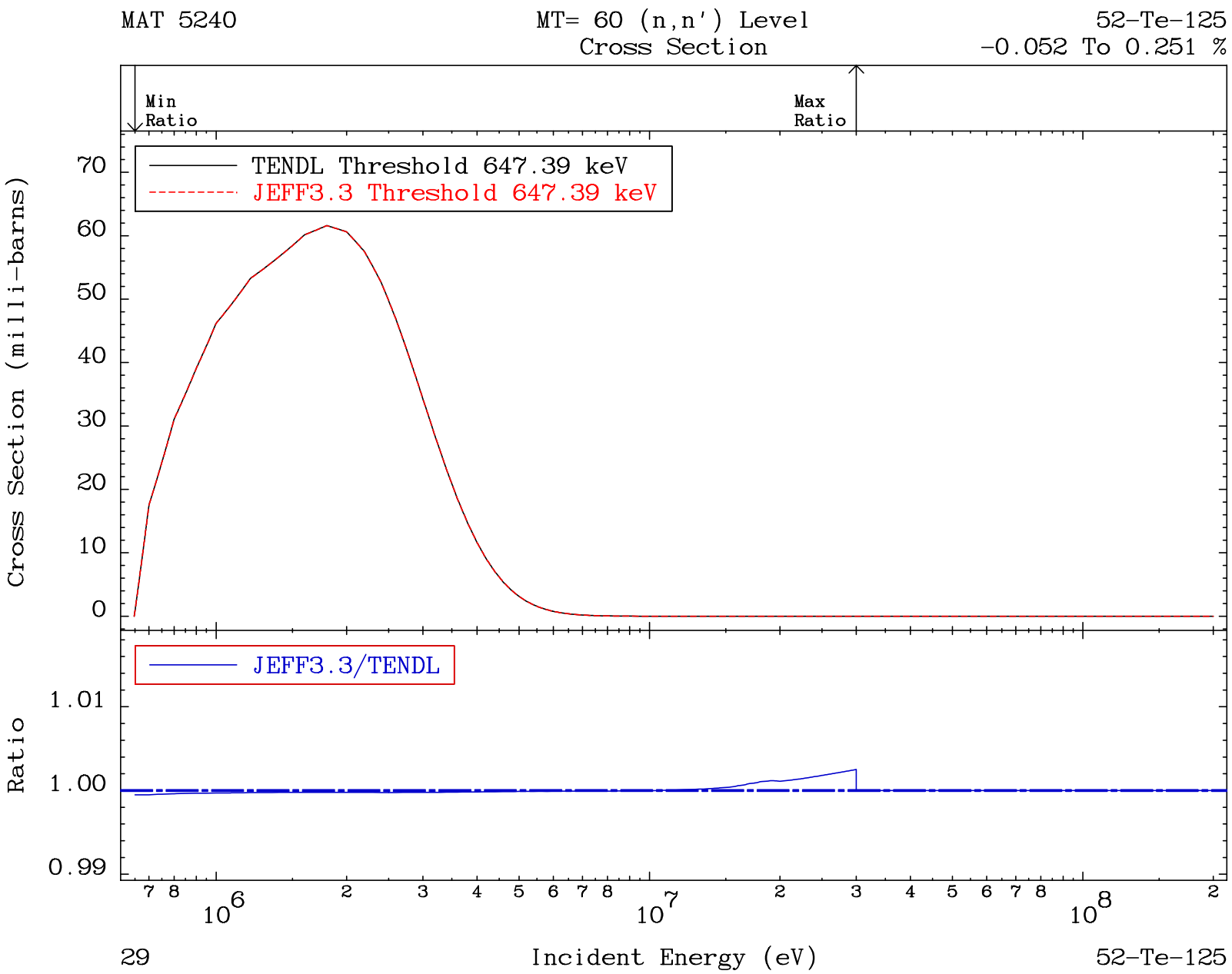

MAT 5240
MT= 55 (n,n') Level
Cross Section
52-Te-125
-0.057 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 447.14 keV
JEFF3.3 Threshold 447.14 keV
Cross Section (milli-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
52-Te-125

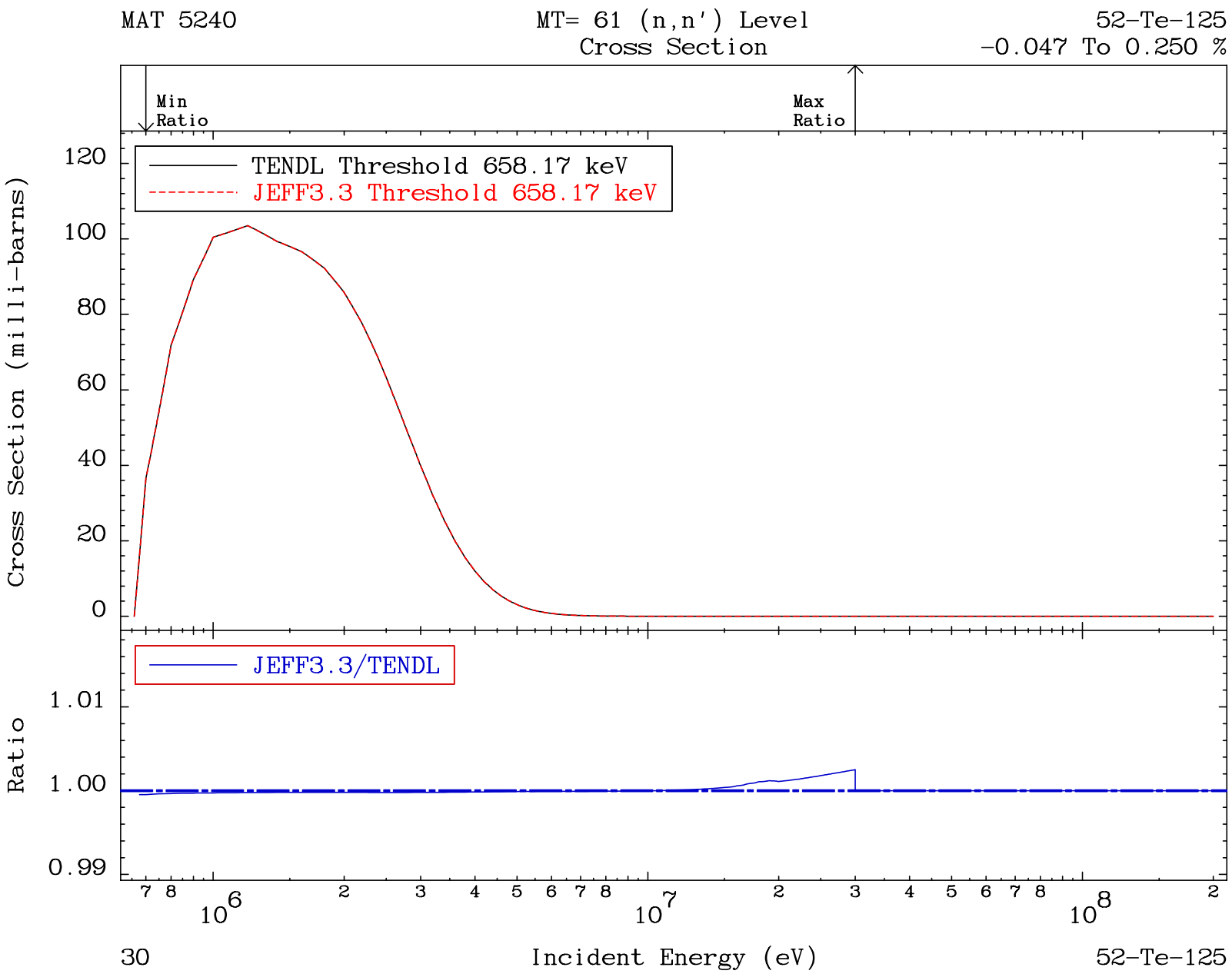

MAT 5240
MT= 56 (n,n') Level
Cross Section
52-Te-125
-0.097 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 467.11 keV
JEFF3.3 Threshold 467.11 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
5 6 7 8
10^6
2
3
4
5 6 7 8
10^7
2
3
4
5 6 7 8
10^8
2
25
Incident Energy (eV)
52-Te-125

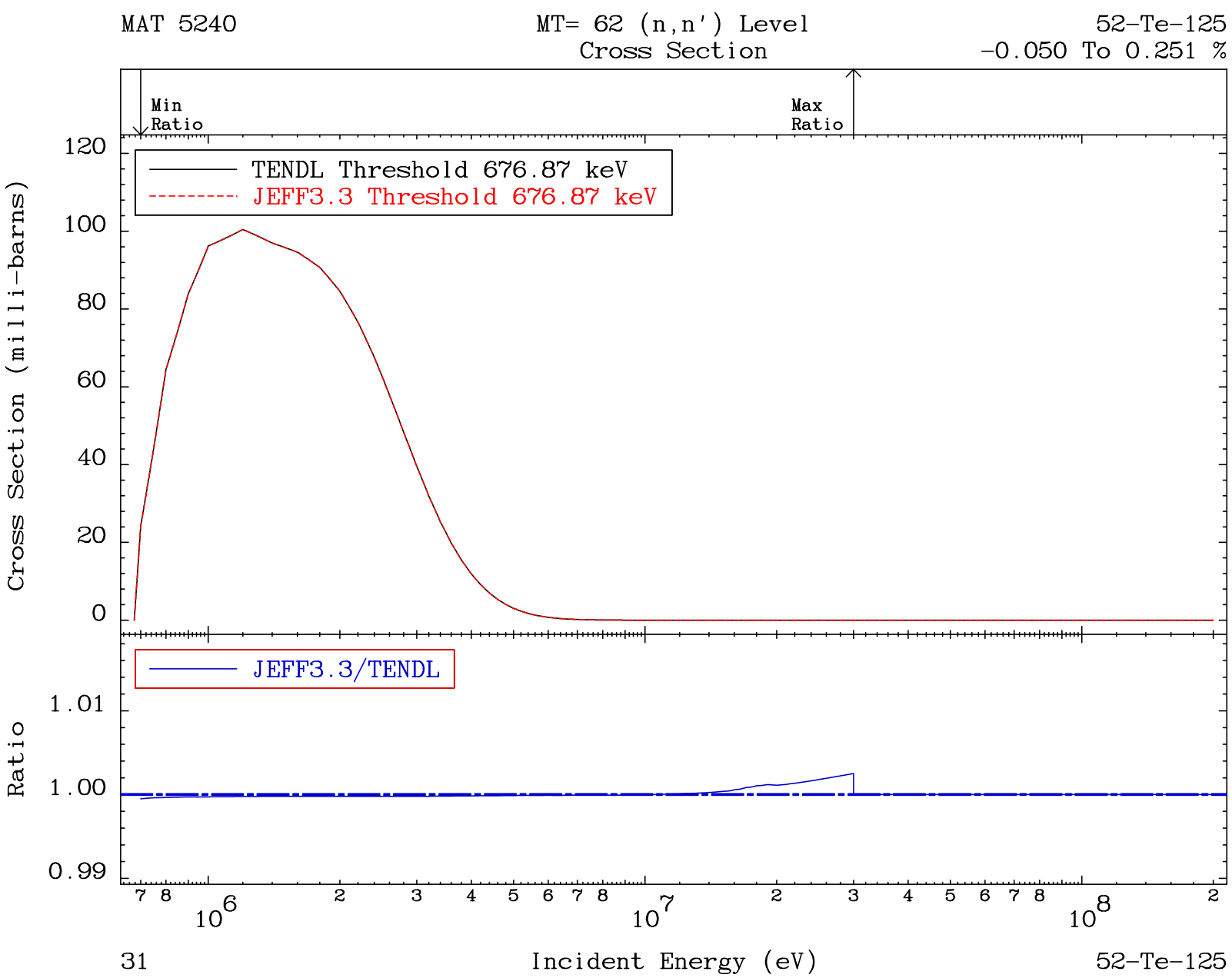

MAT 5240
MT= 57 (n,n') Level
Cross Section
52-Te-125
-0.095 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 529.47 keV
JEFF3.3 Threshold 529.47 keV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
26
Incident Energy (eV)
52-Te-125

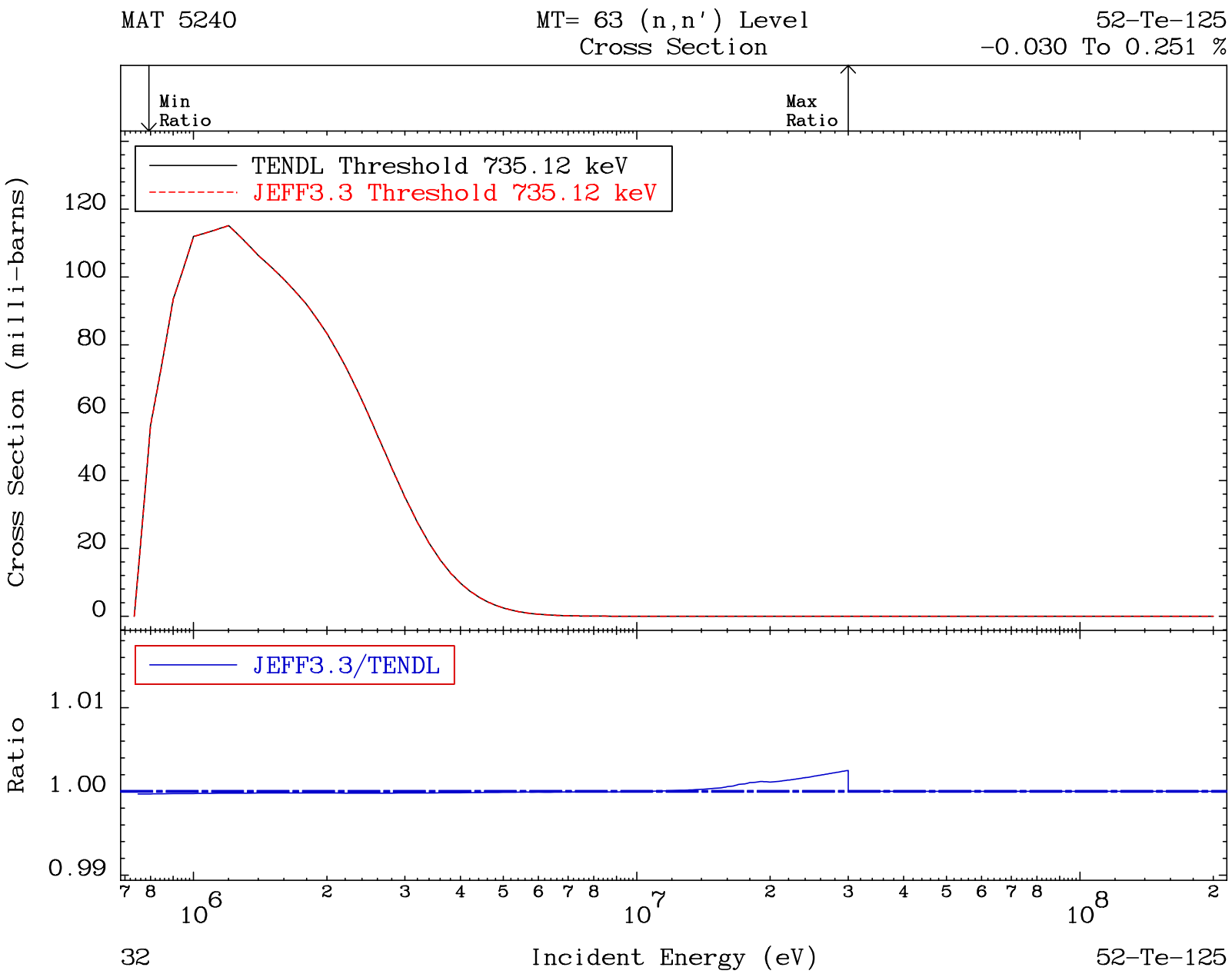

MAT 5240
MT= 58 (n,n') Level
Cross Section
52-Te-125
-0.033 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 542.19 keV
JEFF3.3 Threshold 542.19 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
52-Te-125

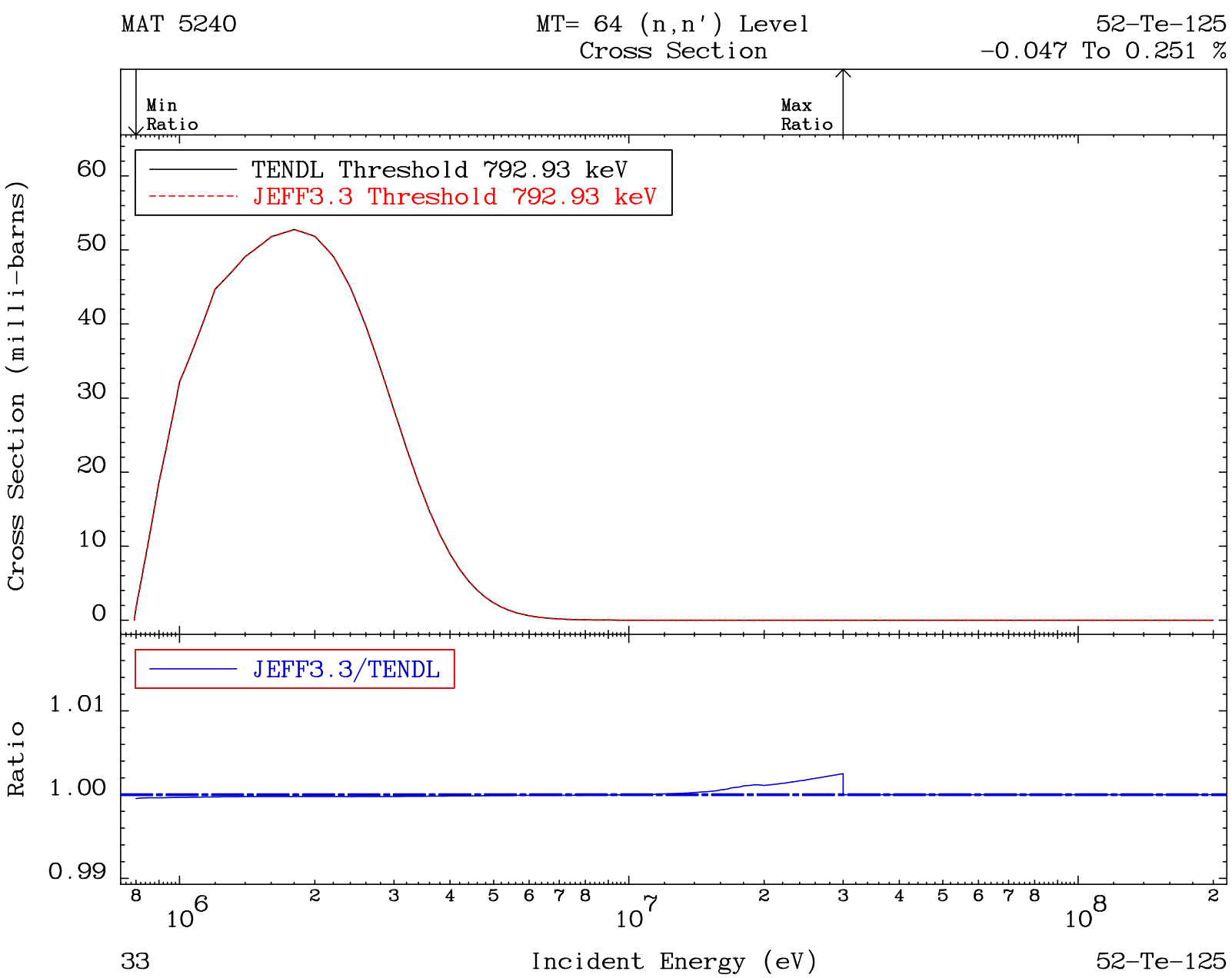

MAT 5240
MT= 59 (n,n') Level
Cross Section
52-Te-125
-0.051 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 641.23 keV
JEFF3.3 Threshold 641.23 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
52-Te-125

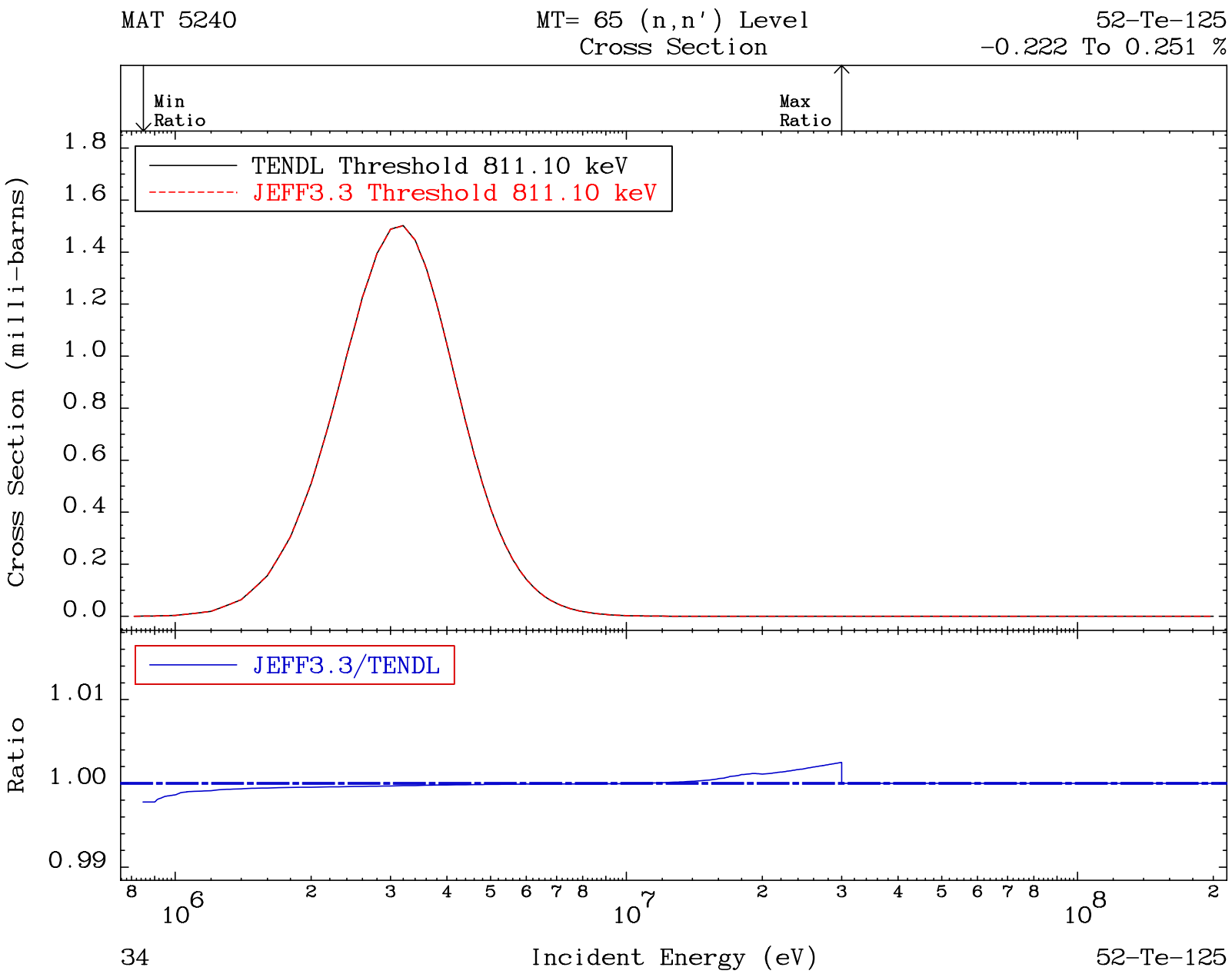

MAT 5240
MT= 60 (n,n') Level
Cross Section
52-Te-125
-0.052 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 647.39 keV
JEFF3.3 Threshold 647.39 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
29
Incident Energy (eV)
52-Te-125

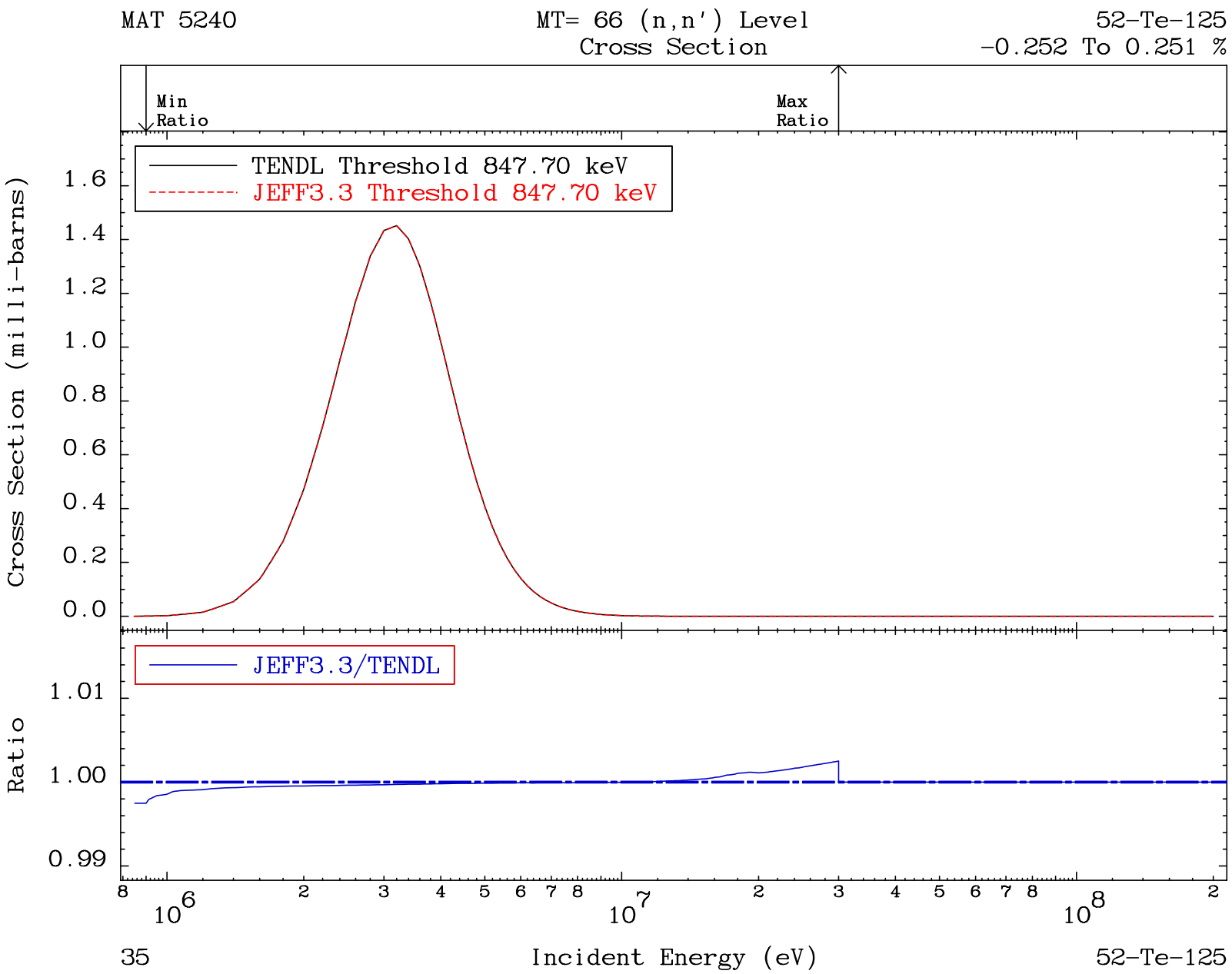

MAT 5240
MT= 61 (n,n') Level
Cross Section
52-Te-125
-0.047 To 0.250 %
Min
Ratio
Max
Ratio
TENDL Threshold 658.17 keV
JEFF3.3 Threshold 658.17 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
30
Incident Energy (eV)
52-Te-125

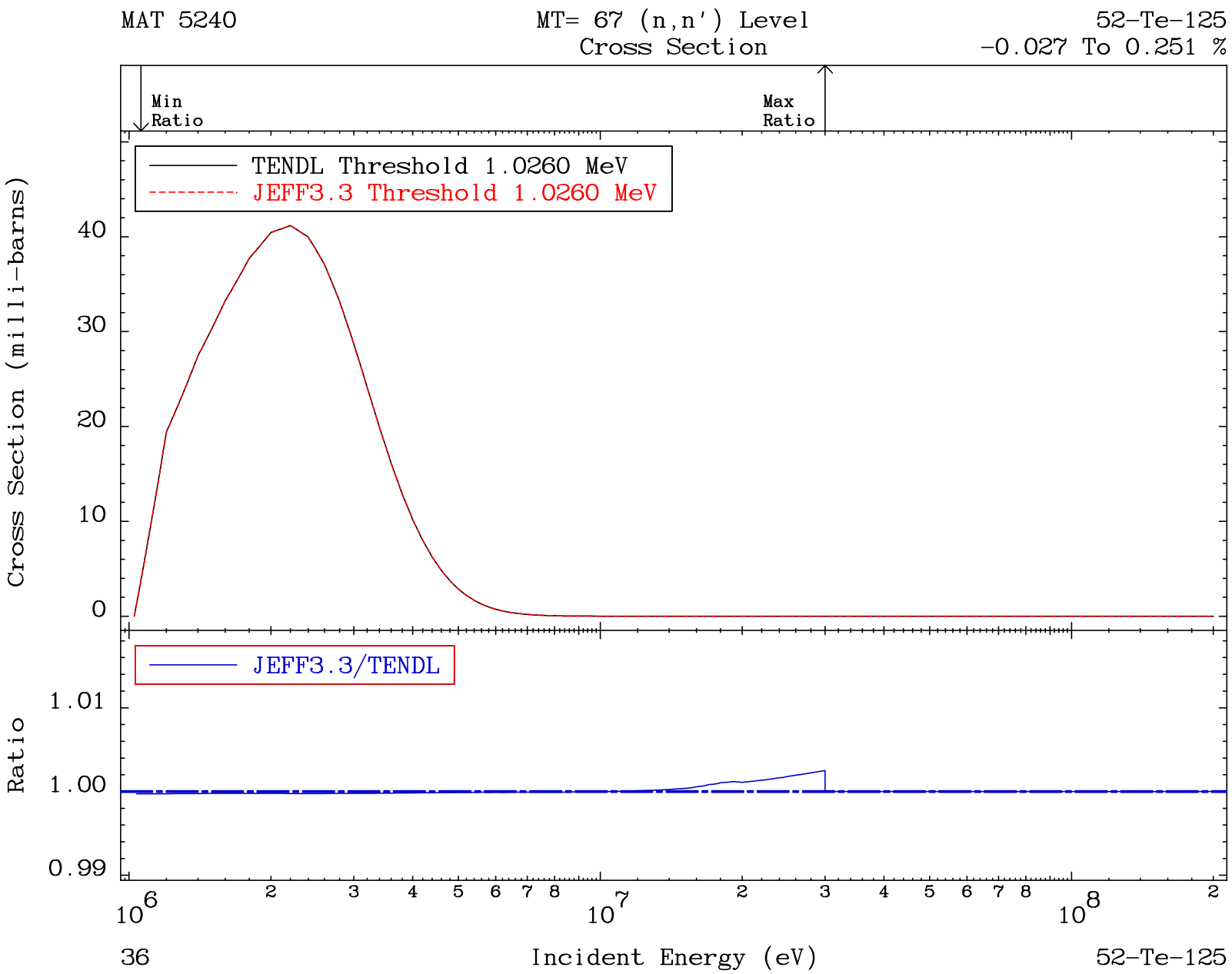

MAT 5240
MT= 62 (n,n') Level
Cross Section
52-Te-125
-0.050 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 676.87 keV
JEFF3.3 Threshold 676.87 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
31
Incident Energy (eV)
52-Te-125

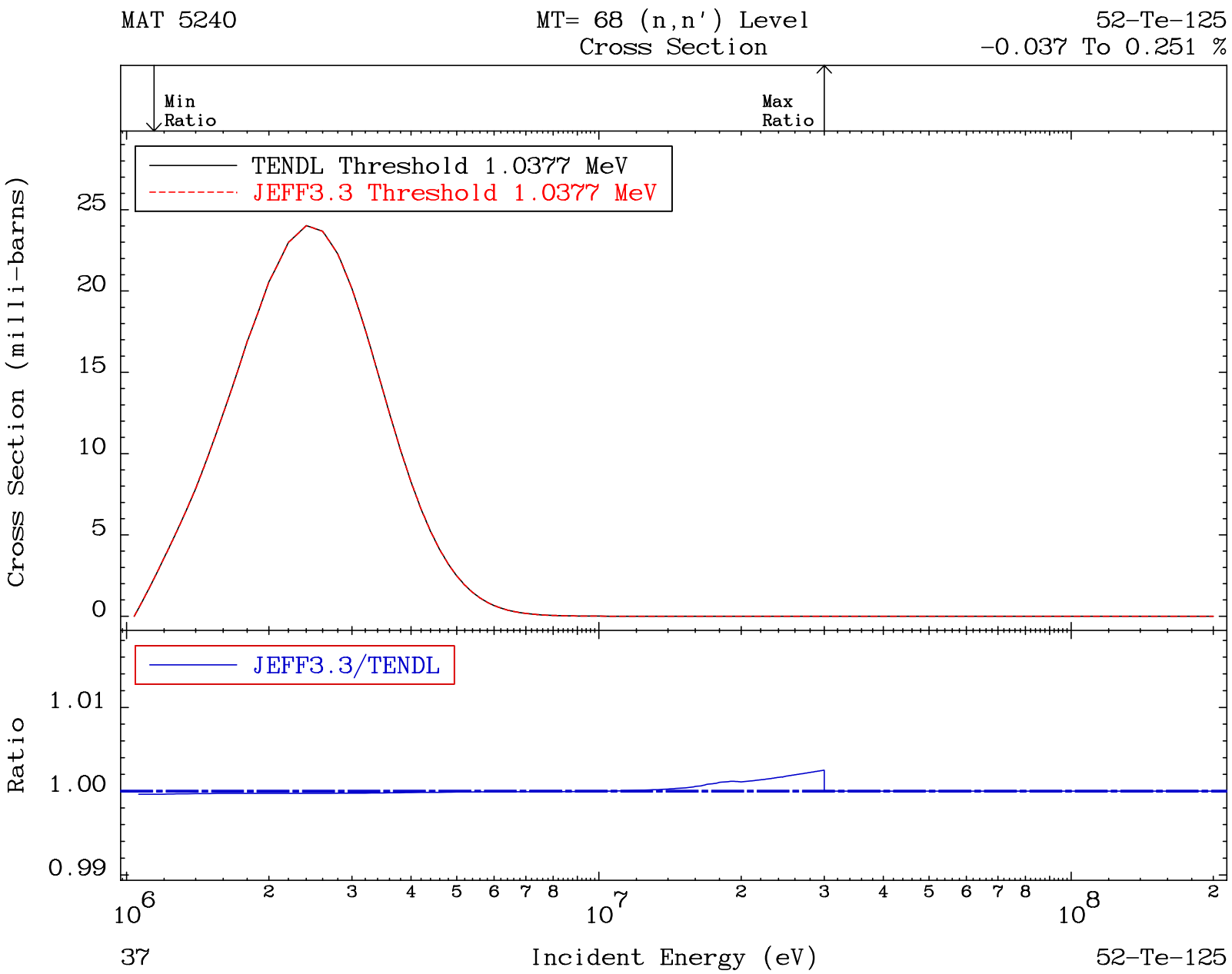

MAT 5240
MT= 63 (n,n') Level
Cross Section
52-Te-125
-0.030 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 735.12 keV
JEFF3.3 Threshold 735.12 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
32
Incident Energy (eV)
52-Te-125

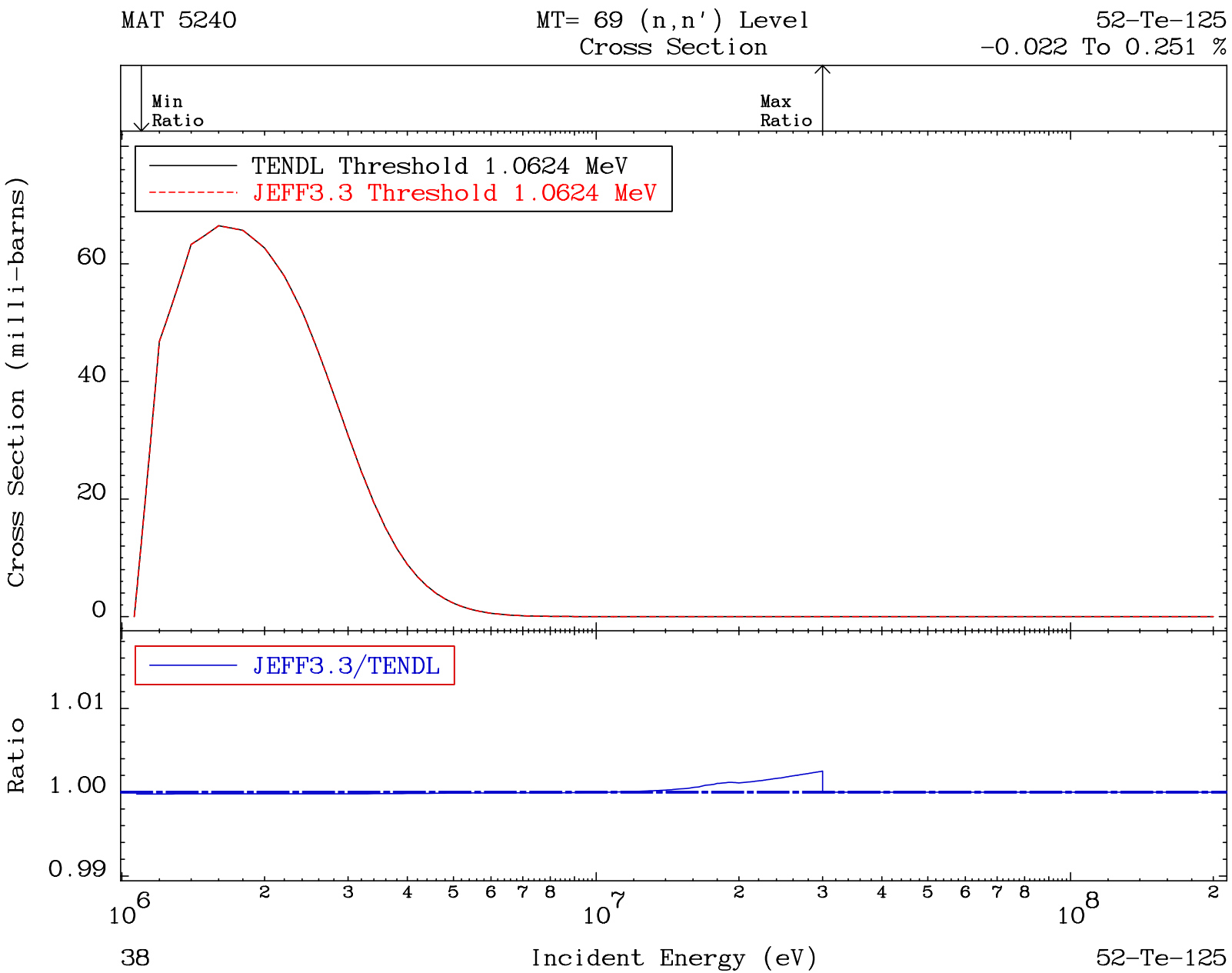

MAT 5240
MT= 64 (n,n') Level
Cross Section
52-Te-125
-0.047 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 792.93 keV
JEFF3.3 Threshold 792.93 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
8
2
3
4
5
6
7
8
10^6
10^7
10^8
33
Incident Energy (eV)
52-Te-125

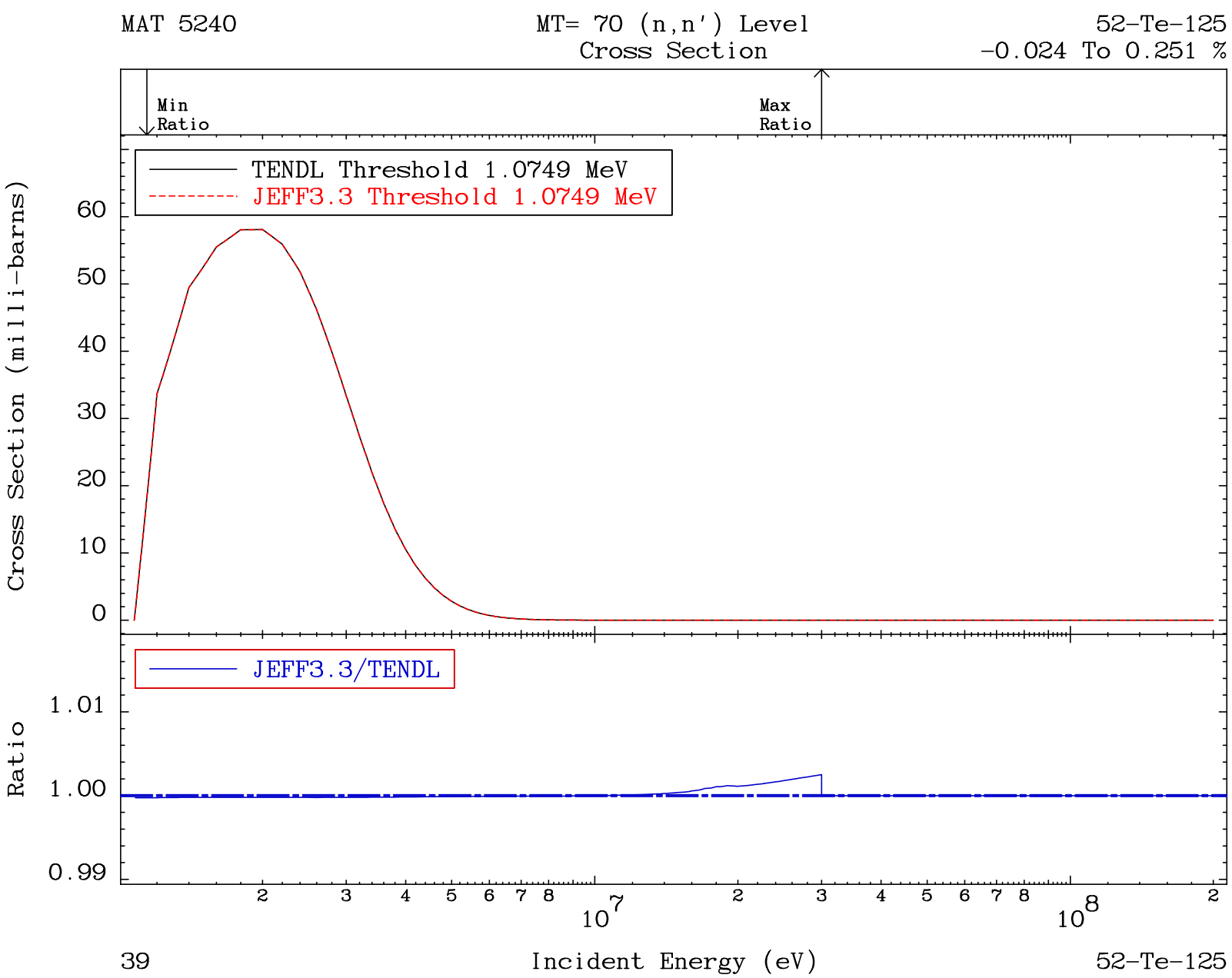

MAT 5240
MT= 65 (n,n') Level
Cross Section
52-Te-125
-0.222 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 811.10 keV
JEFF3.3 Threshold 811.10 keV
Cross Section (milli-barns)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
34
Incident Energy (eV)
52-Te-125

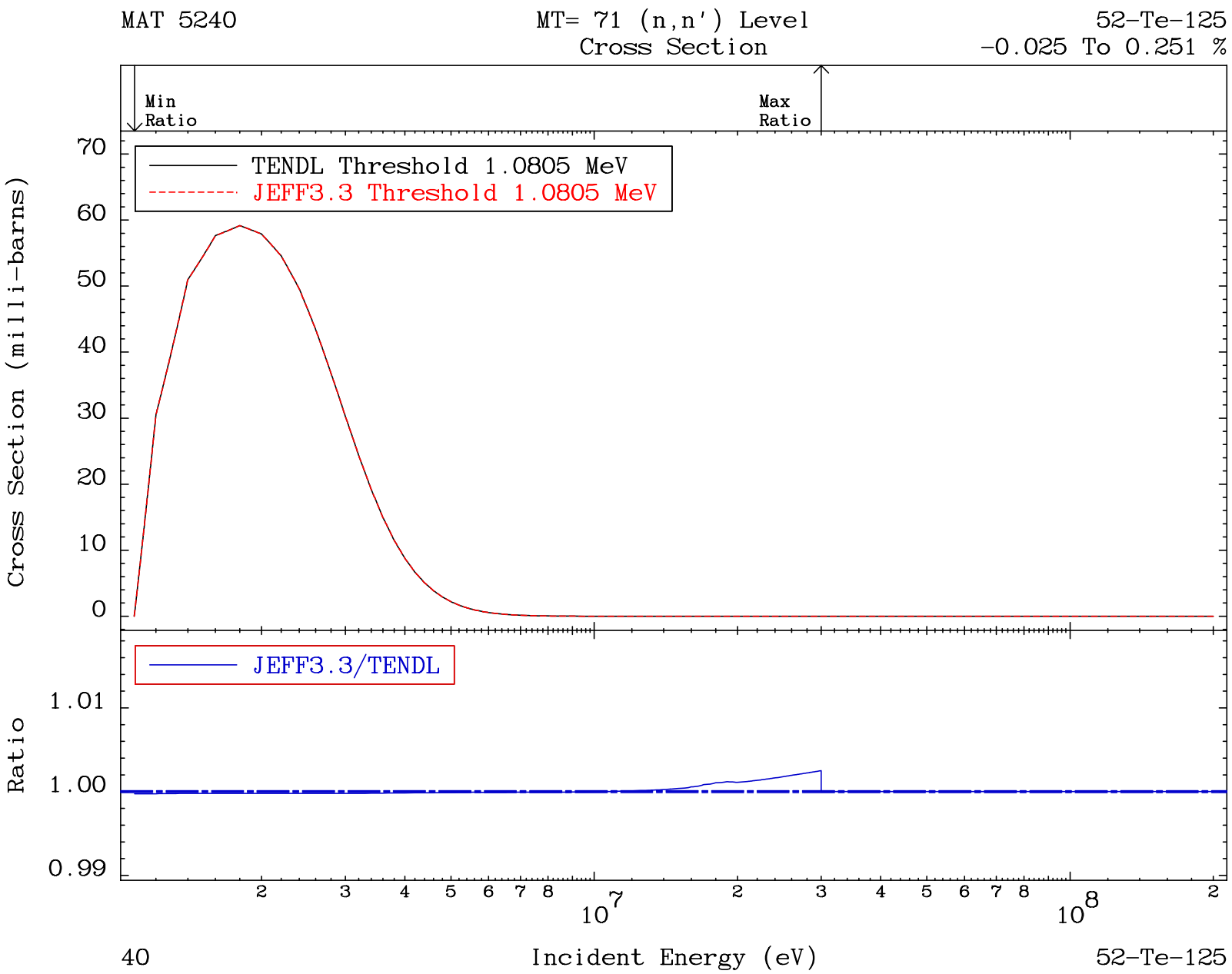

MAT 5240
MT= 66 (n,n') Level
Cross Section
52-Te-125
-0.252 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 847.70 keV
JEFF3.3 Threshold 847.70 keV
Cross Section (milli-barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
8
2
3
4
5
6
7
8
10^6
10^7
10^8
35
Incident Energy (eV)
52-Te-125

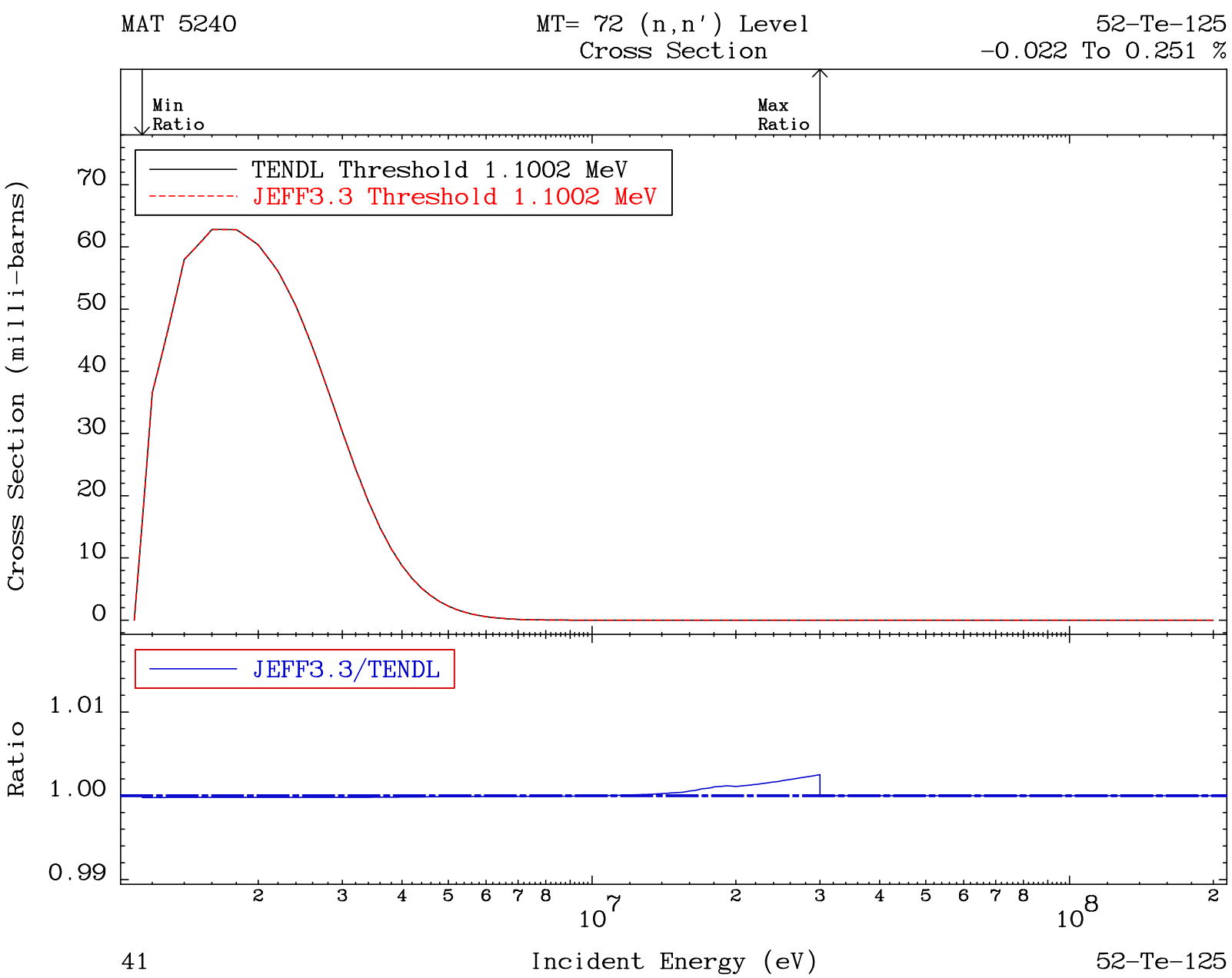

MAT 5240
MT= 67 (n,n') Level
Cross Section
52-Te-125
-0.027 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0260 MeV
JEFF3.3 Threshold 1.0260 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
36
Incident Energy (eV)
52-Te-125

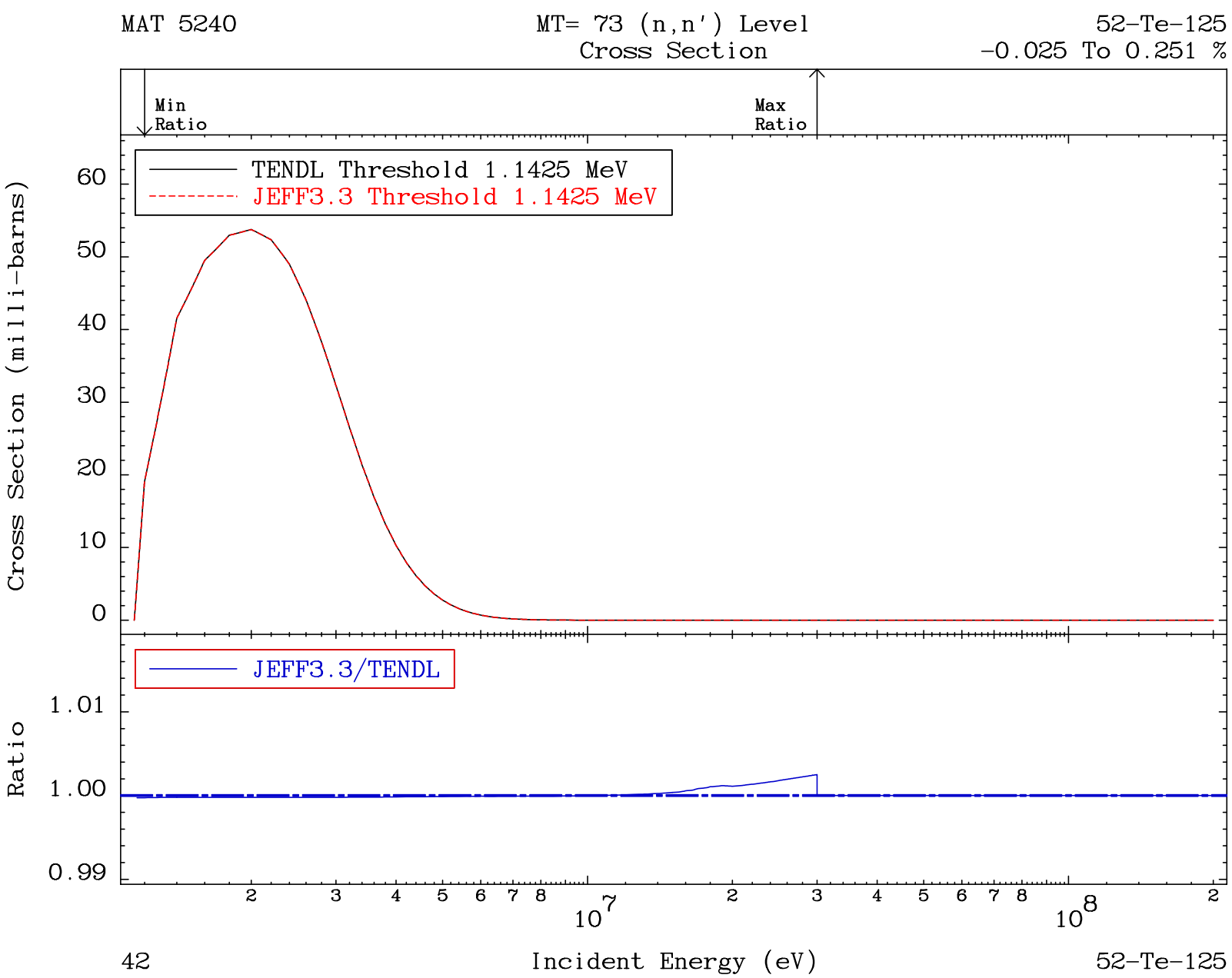

MAT 5240
MT= 68 (n,n') Level
Cross Section
52-Te-125
-0.037 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0377 MeV
JEFF3.3 Threshold 1.0377 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
37
Incident Energy (eV)
52-Te-125

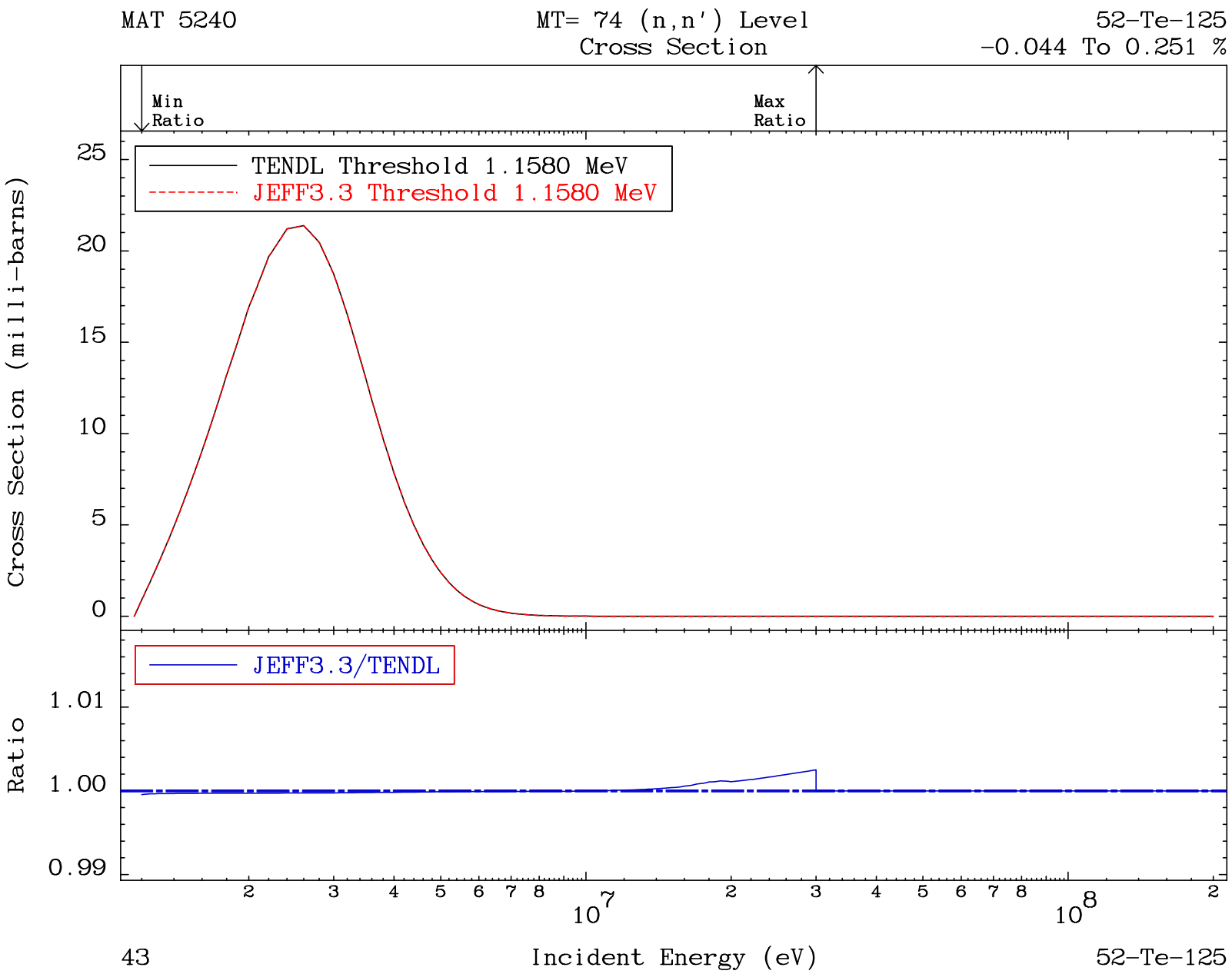

MAT 5240
MT= 69 (n,n') Level
Cross Section
52-Te-125
-0.022 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0624 MeV
JEFF3.3 Threshold 1.0624 MeV
Cross Section (milli-barns)
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
38
Incident Energy (eV)
52-Te-125

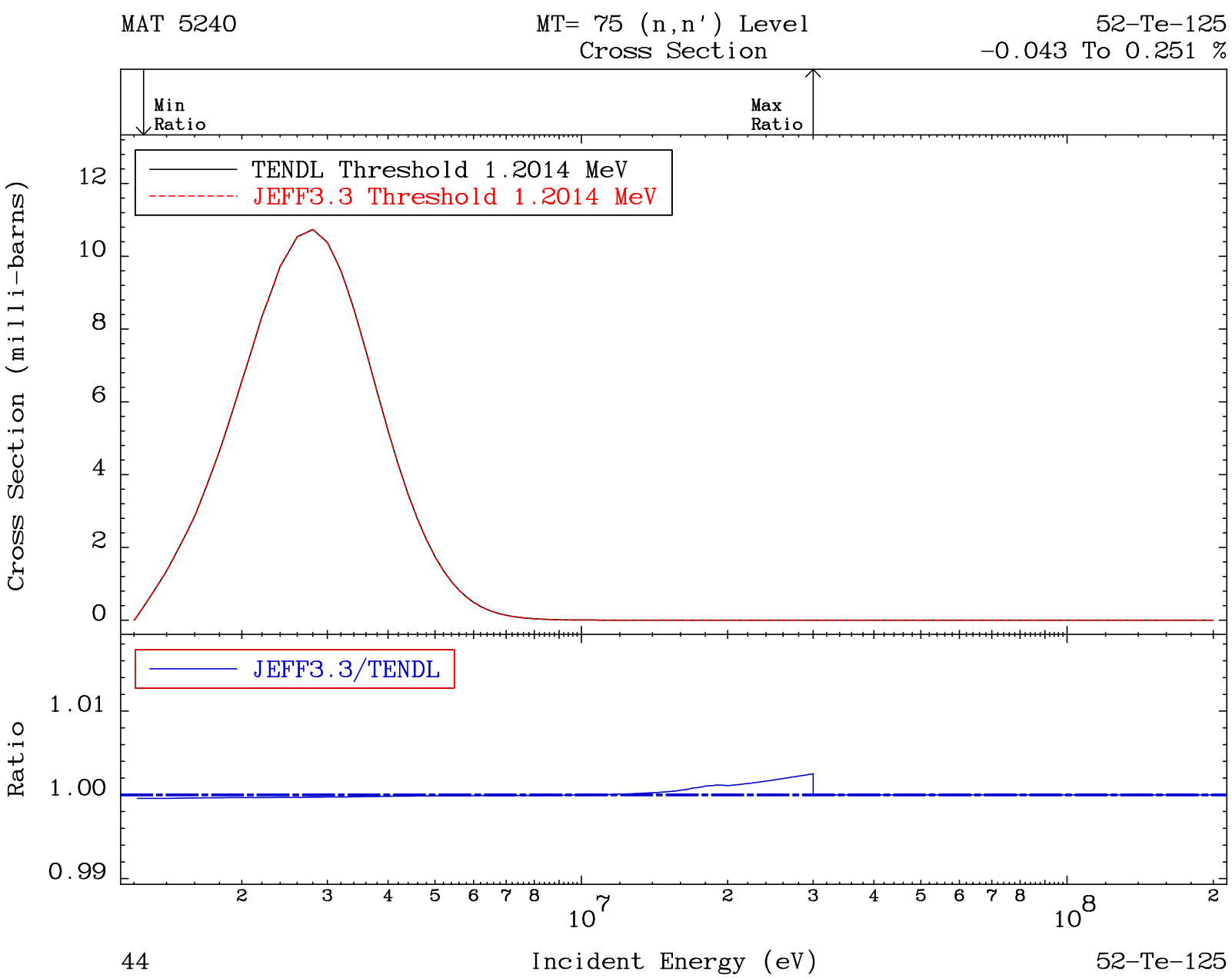

MAT 5240
MT= 70 (n,n') Level
Cross Section
52-Te-125
-0.024 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0749 MeV
JEFF3.3 Threshold 1.0749 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
39
Incident Energy (eV)
52-Te-125

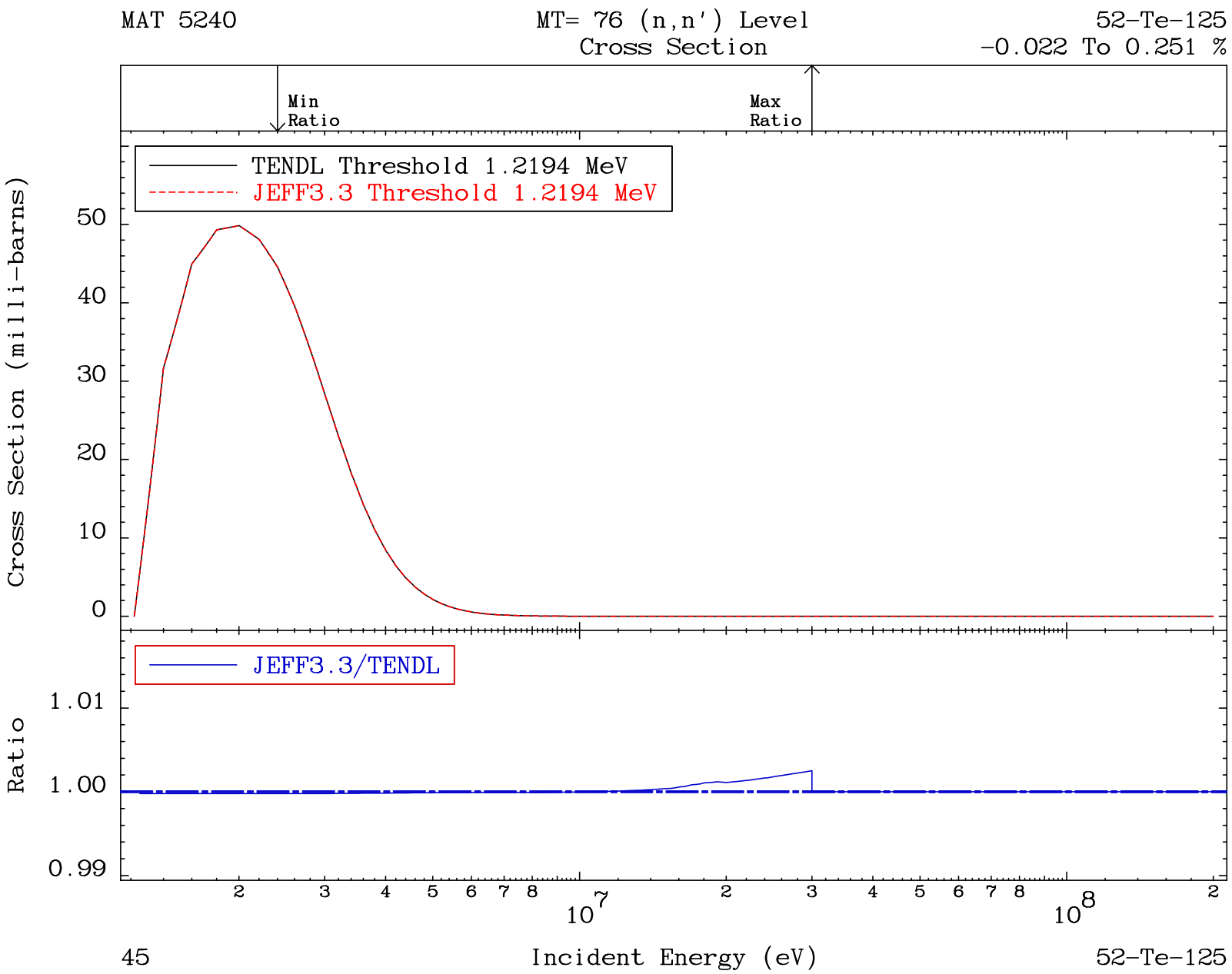

MAT 5240
MT= 71 (n,n') Level
Cross Section
52-Te-125
-0.025 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0805 MeV
JEFF3.3 Threshold 1.0805 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
40
Incident Energy (eV)
52-Te-125

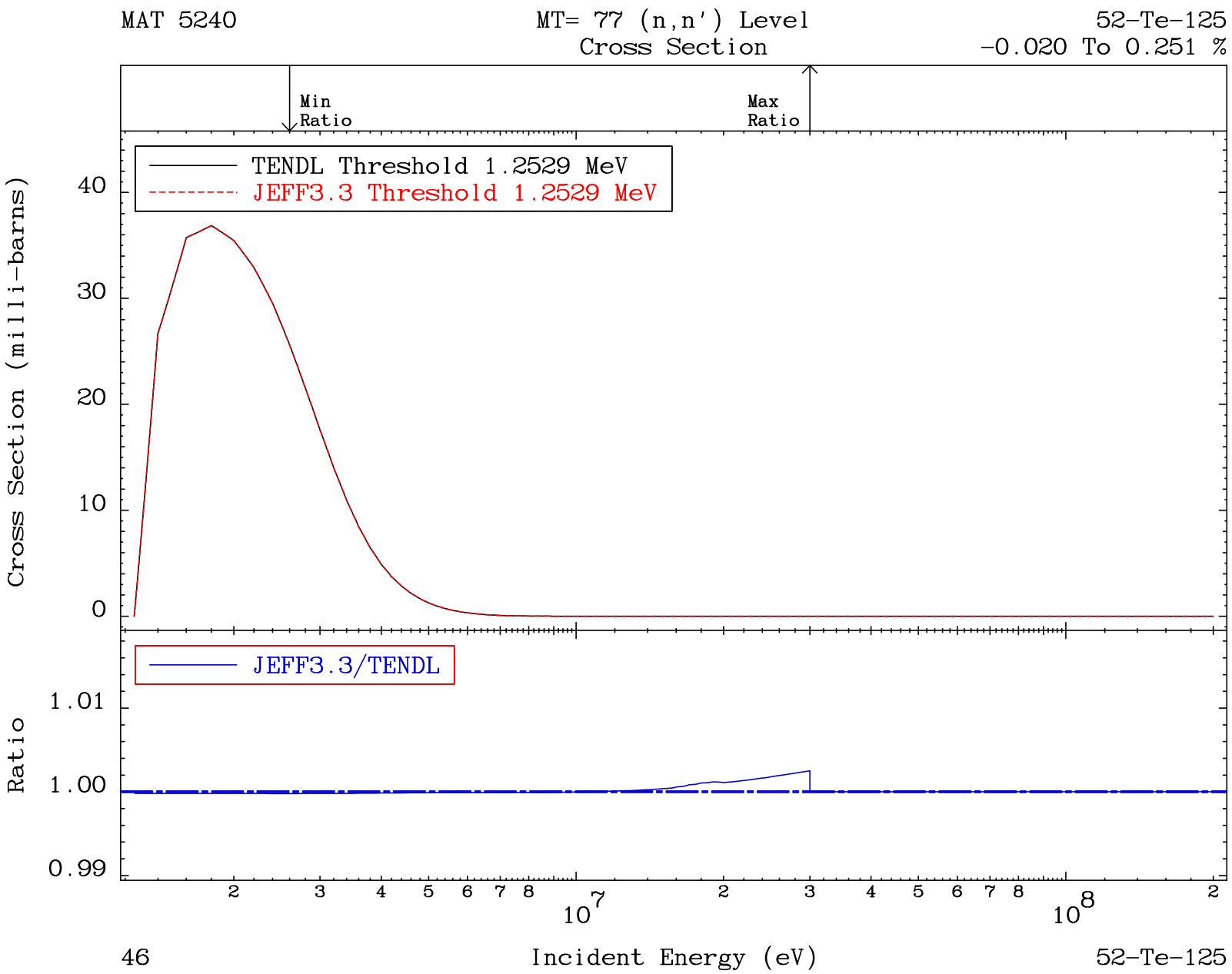

MAT 5240
MT= 72 (n,n') Level
Cross Section
52-Te-125
-0.022 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.1002 MeV
JEFF3.3 Threshold 1.1002 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
41
Incident Energy (eV)
52-Te-125

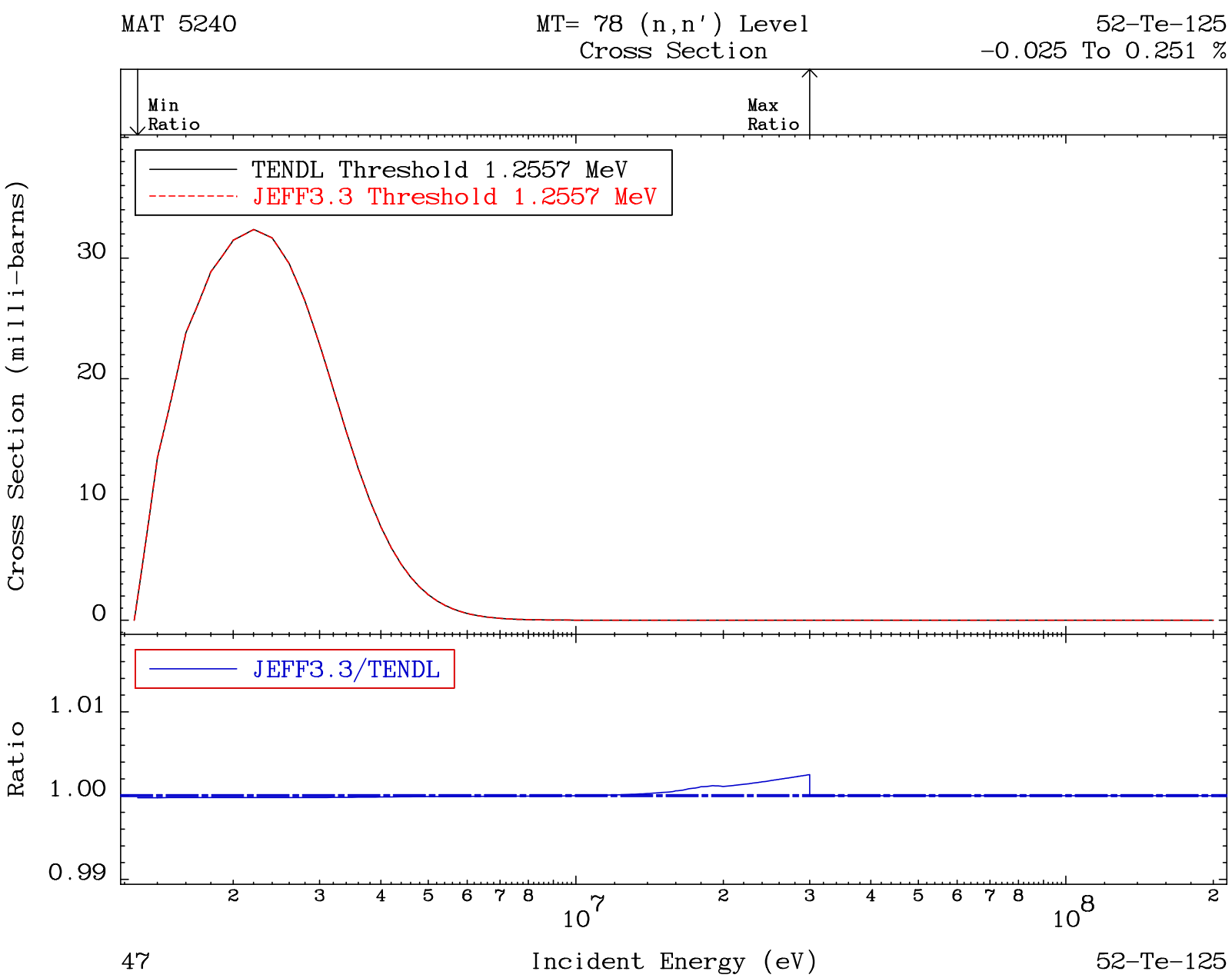

MAT 5240
MT= 73 (n,n') Level
Cross Section
52-Te-125
-0.025 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.1425 MeV
JEFF3.3 Threshold 1.1425 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
42
Incident Energy (eV)
52-Te-125

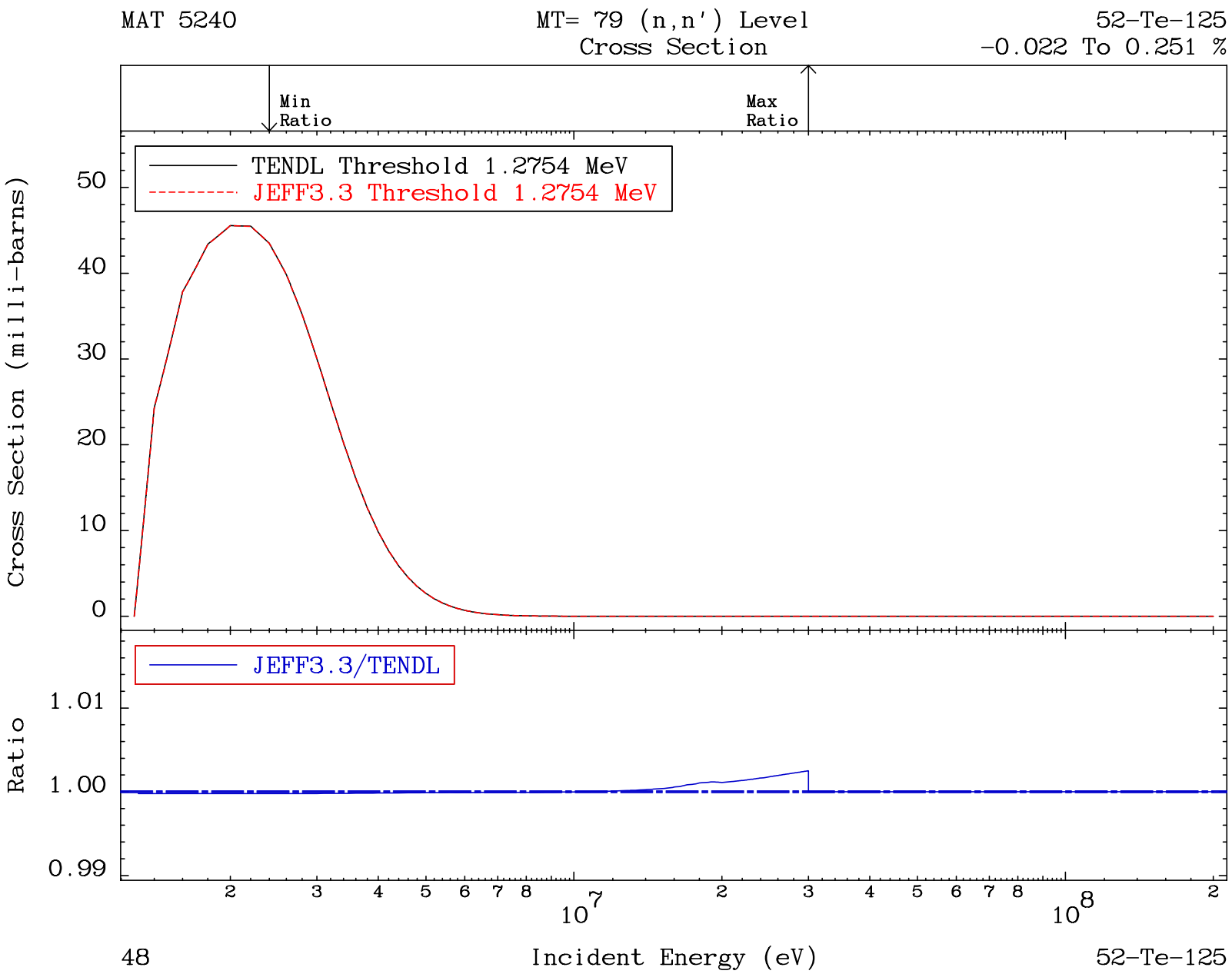

MAT 5240
MT= 74 (n,n') Level
Cross Section
52-Te-125
-0.044 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.1580 MeV
JEFF3.3 Threshold 1.1580 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
43
Incident Energy (eV)
52-Te-125

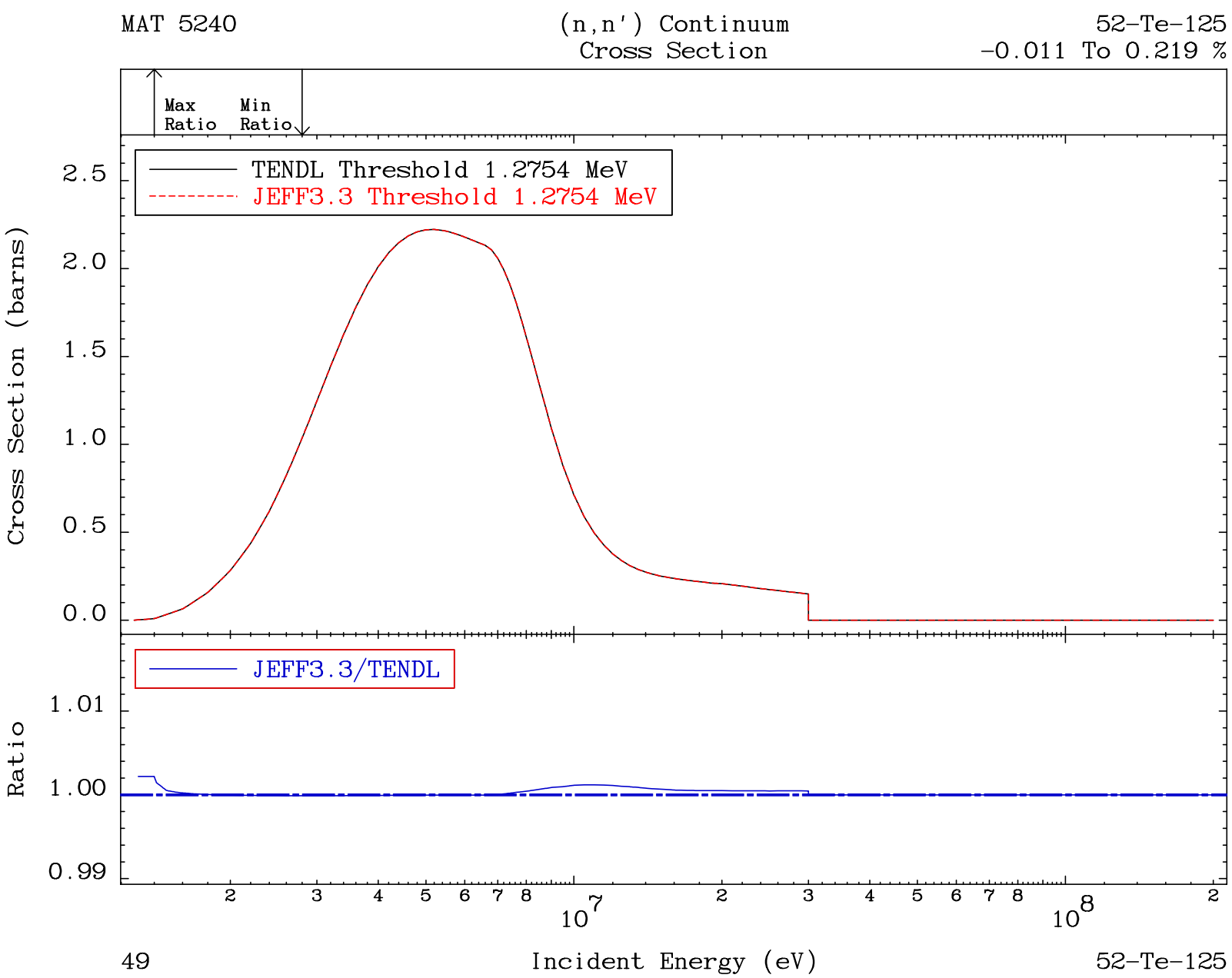

MAT 5240
MT= 75 (n,n') Level
Cross Section
52-Te-125
-0.043 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.2014 MeV
JEFF3.3 Threshold 1.2014 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
44
Incident Energy (eV)
52-Te-125

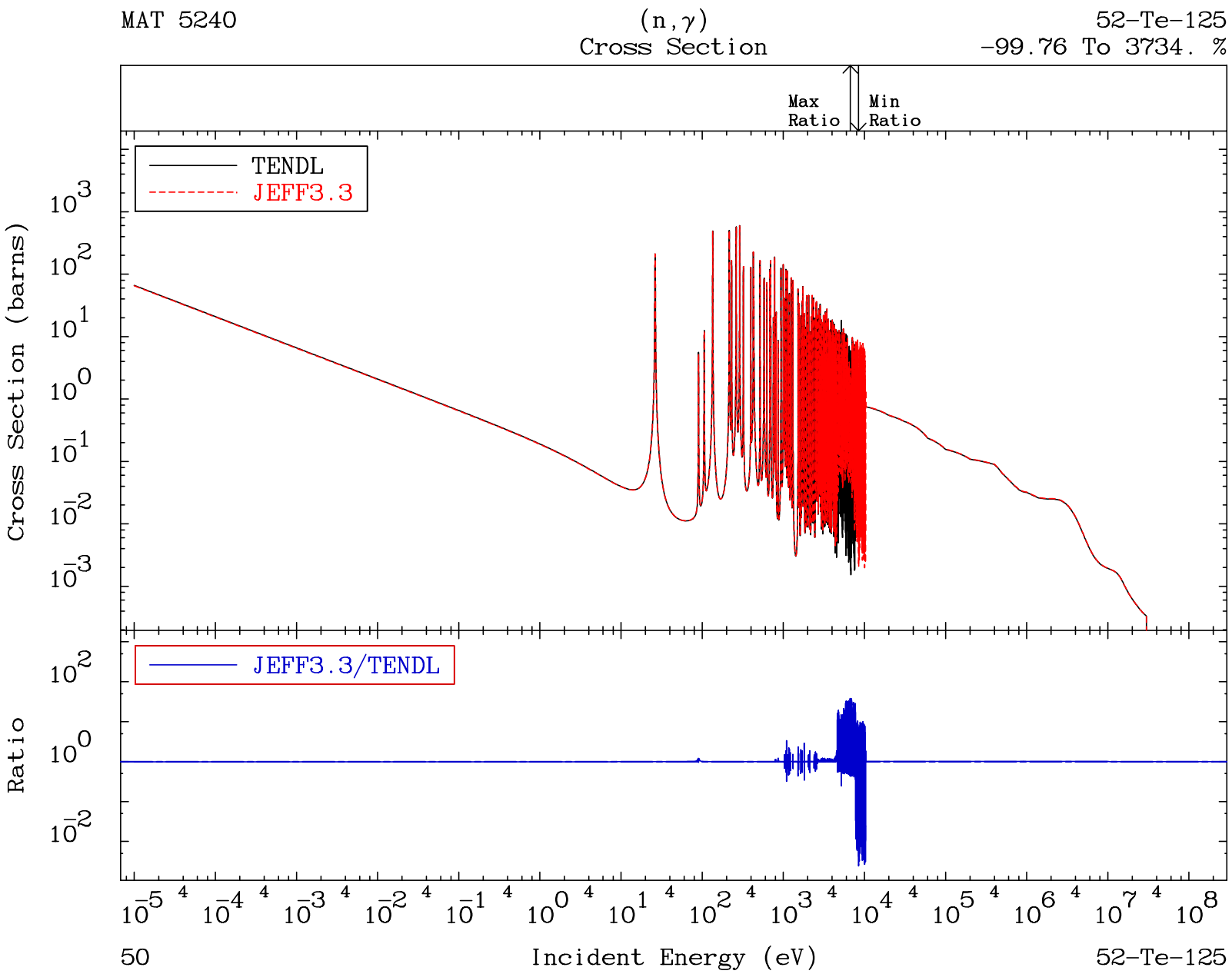

MAT 5240
MT= 76 (n,n') Level
Cross Section
52-Te-125
-0.022 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.2194 MeV
JEFF3.3 Threshold 1.2194 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
45
Incident Energy (eV)
52-Te-125

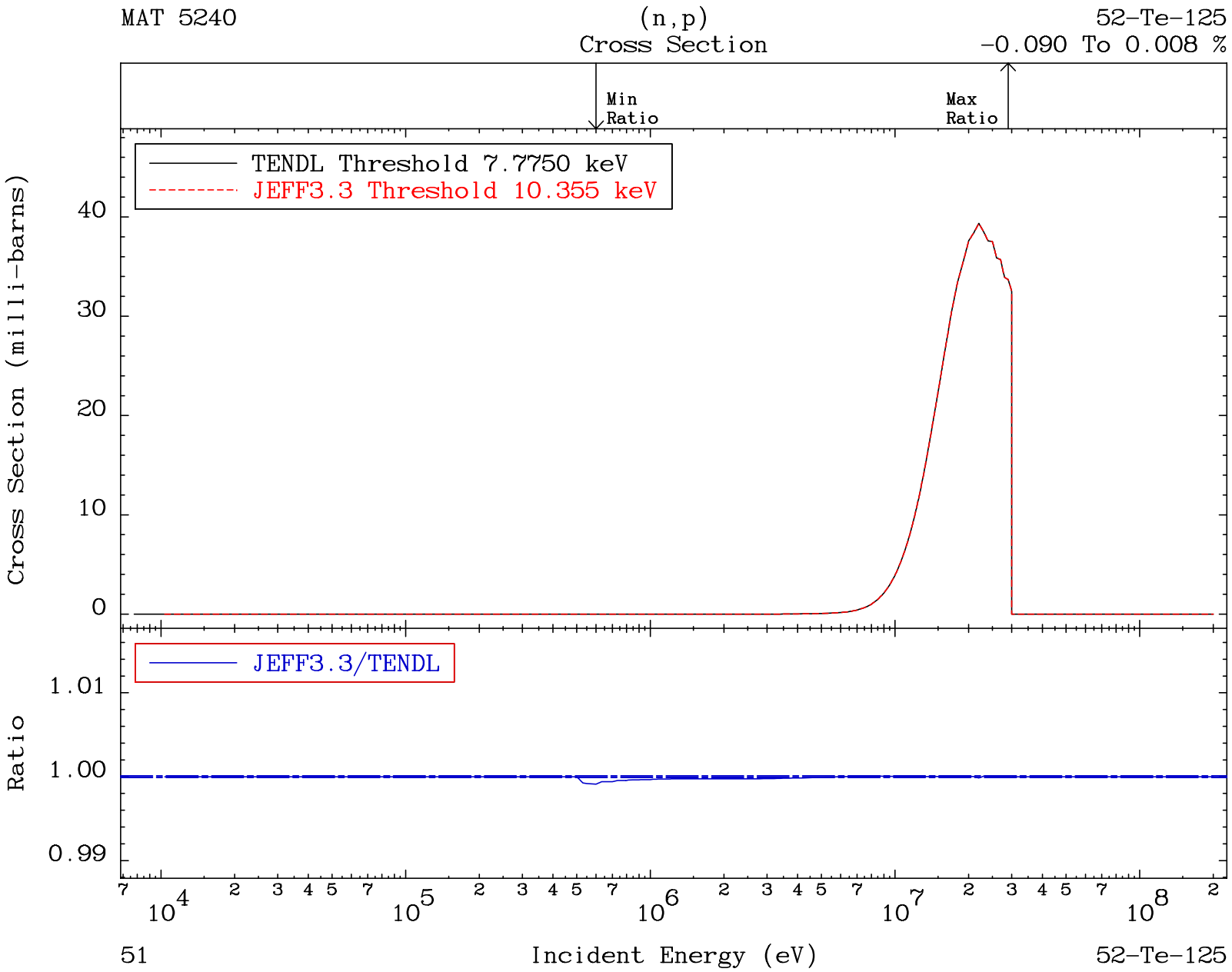

MAT 5240
MT= 77 (n,n') Level
Cross Section
52-Te-125
-0.020 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.2529 MeV
JEFF3.3 Threshold 1.2529 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
46
Incident Energy (eV)
52-Te-125

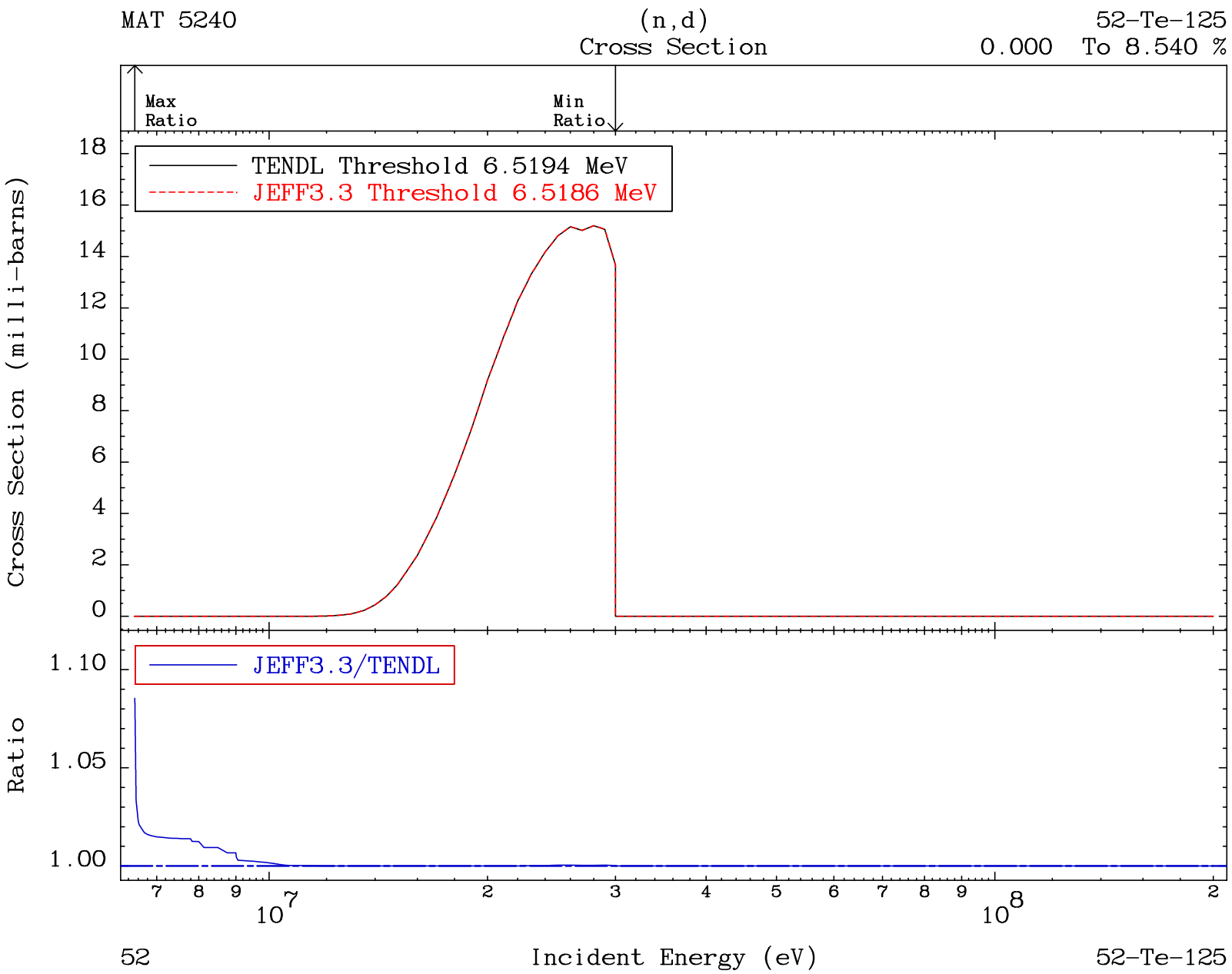

MAT 5240
MT= 78 (n,n') Level
Cross Section
52-Te-125
-0.025 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.2557 MeV
JEFF3.3 Threshold 1.2557 MeV
Cross Section (milli-barns)
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
47
Incident Energy (eV)
52-Te-125

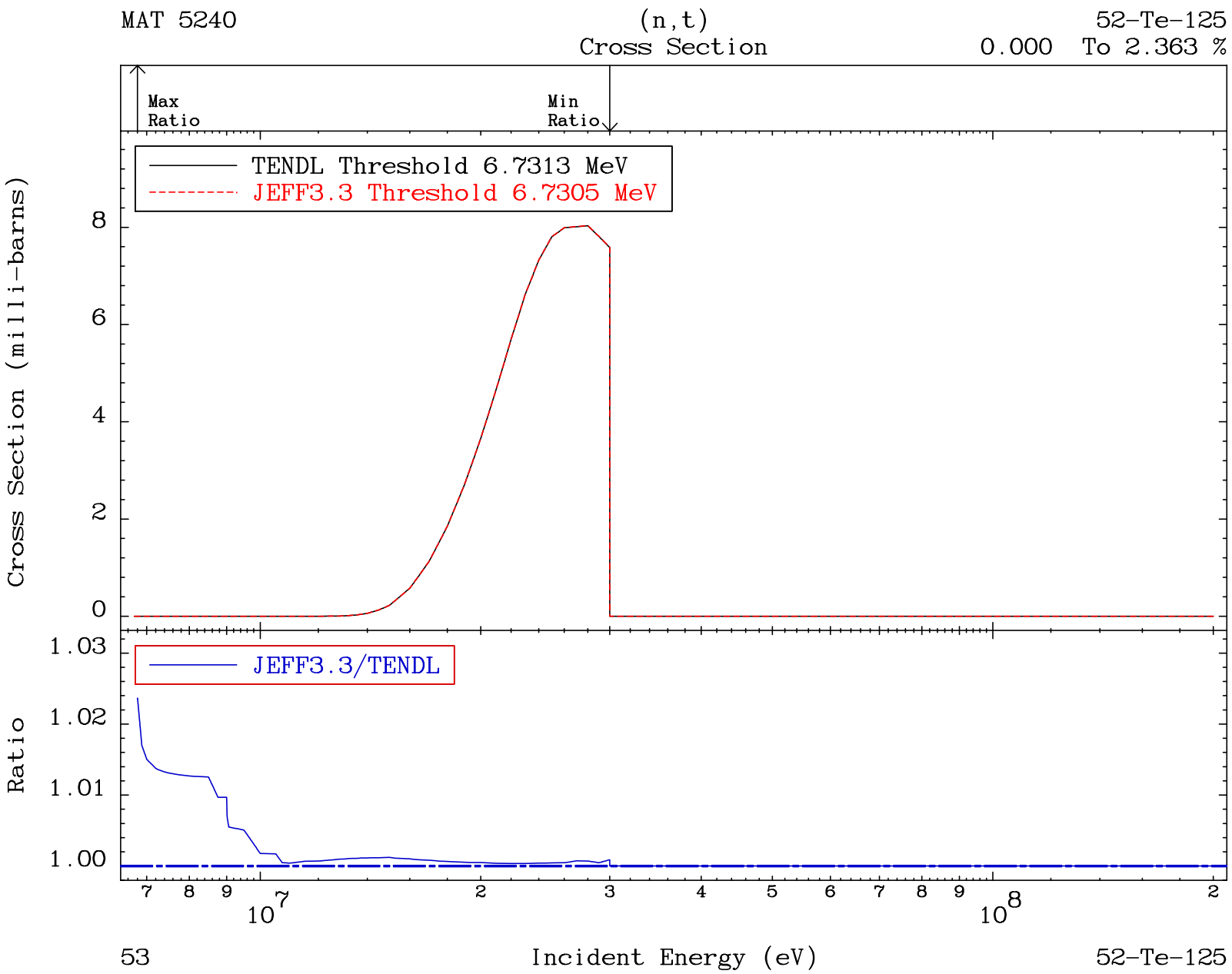

MAT 5240
MT= 79 (n,n') Level
Cross Section
52-Te-125
-0.022 To 0.251 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.2754 MeV
JEFF3.3 Threshold 1.2754 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
48
Incident Energy (eV)
52-Te-125

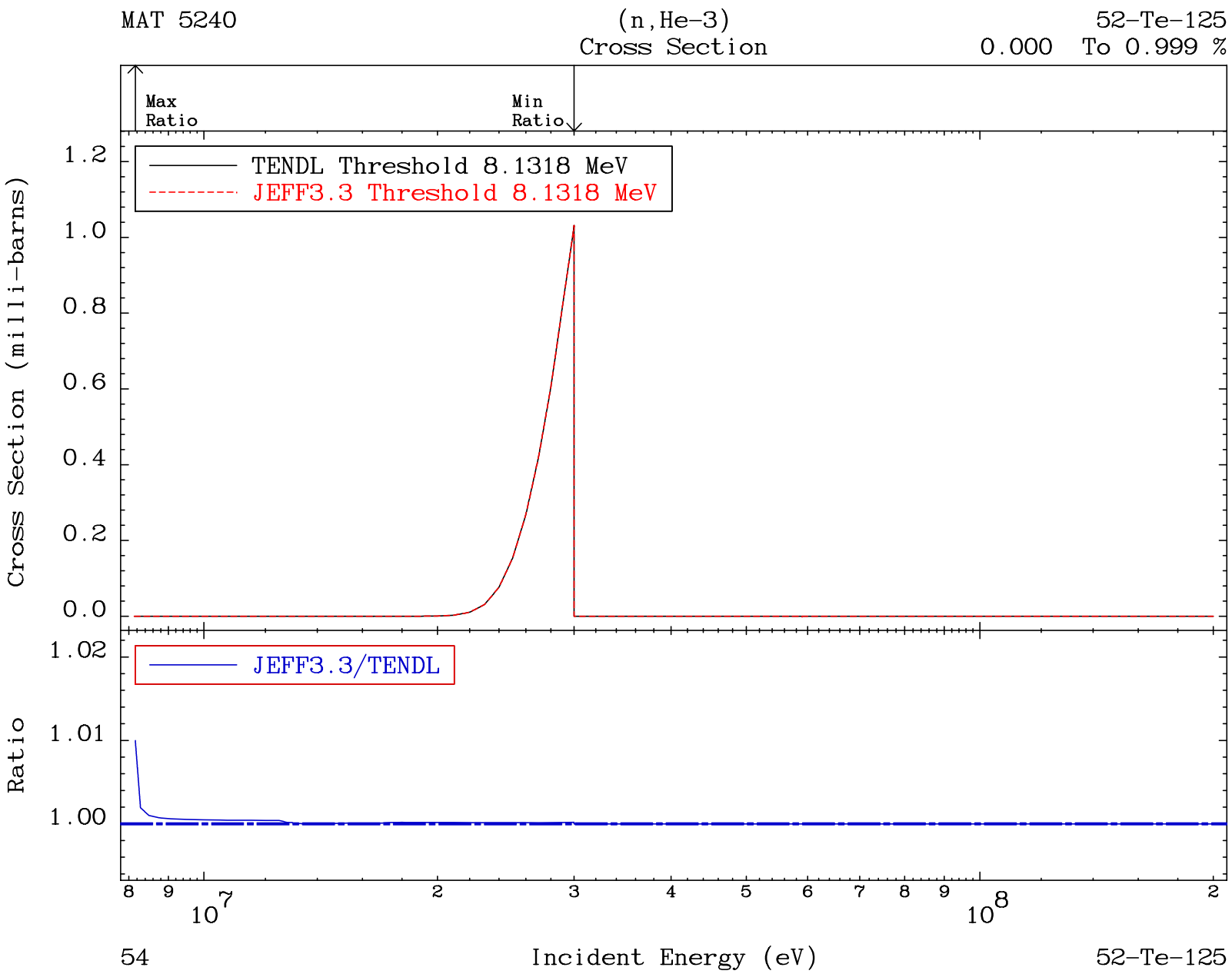

MAT 5240
(n,n') Continuum
Cross Section
52-Te-125
-0.011 To 0.219 %
Max Ratio
Min Ratio
TENDL Threshold 1.2754 MeV
JEFF3.3 Threshold 1.2754 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
49
Incident Energy (eV)
52-Te-125

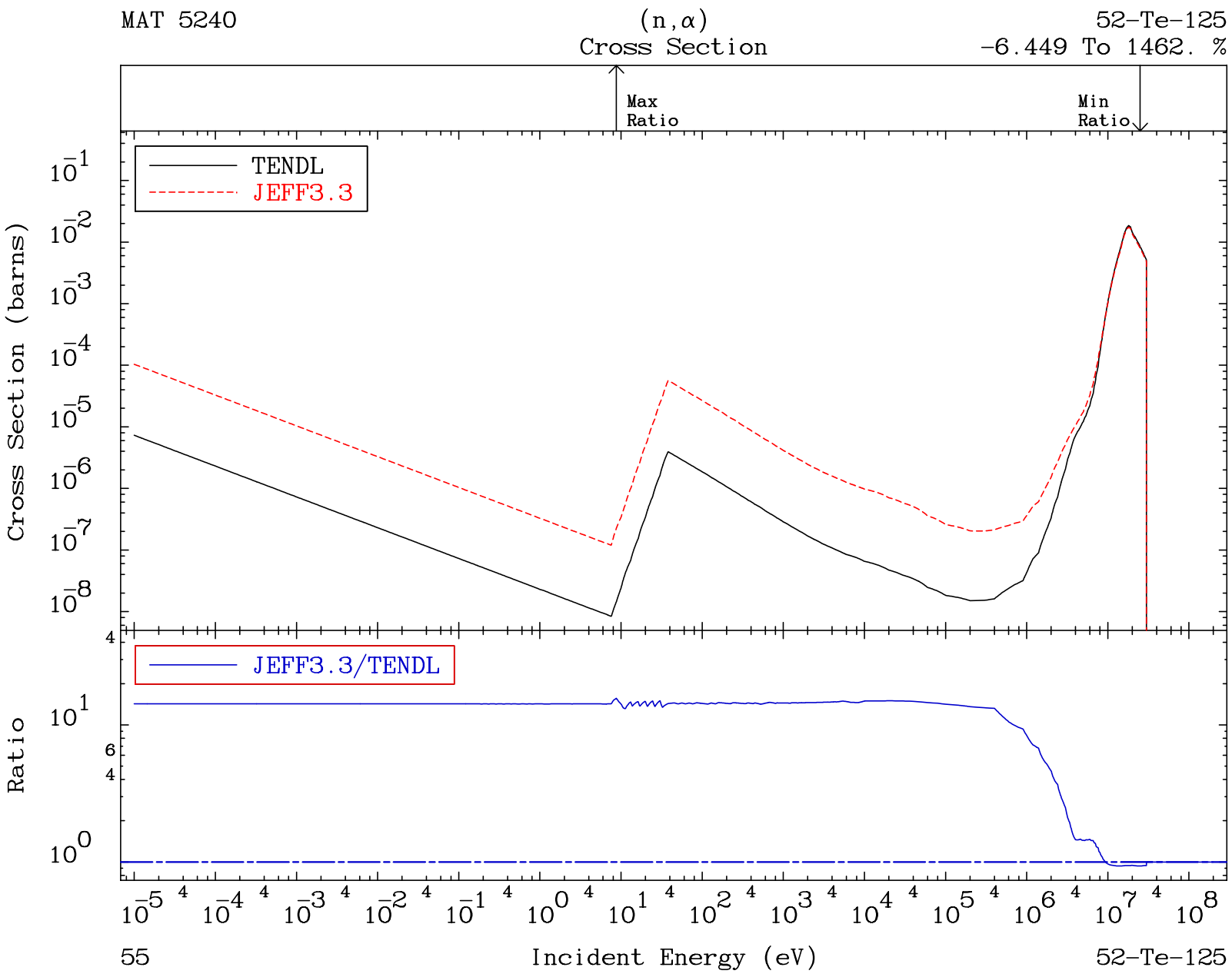

MAT 5240
(n,γ)
Cross Section
52-Te-125
-99.76 To 3734. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
50
52-Te-125

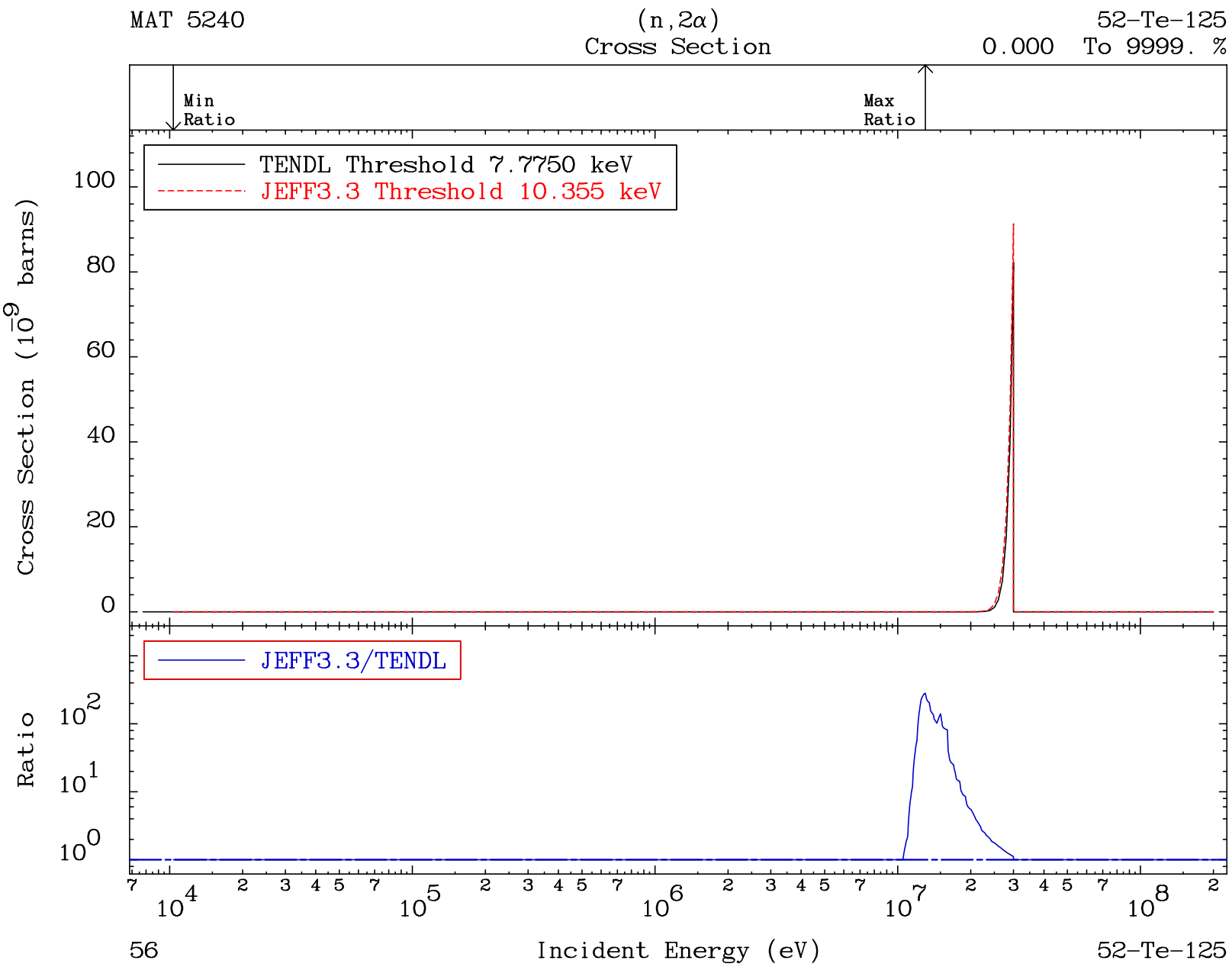

MAT 5240
(n,p)
Cross Section
52-Te-125
-0.090 To 0.008 %
Min Ratio
Max Ratio
TENDL Threshold 7.7750 keV
JEFF3.3 Threshold 10.355 keV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
10^4
10^5
10^6
10^7
10^8
51
Incident Energy (eV)
52-Te-125

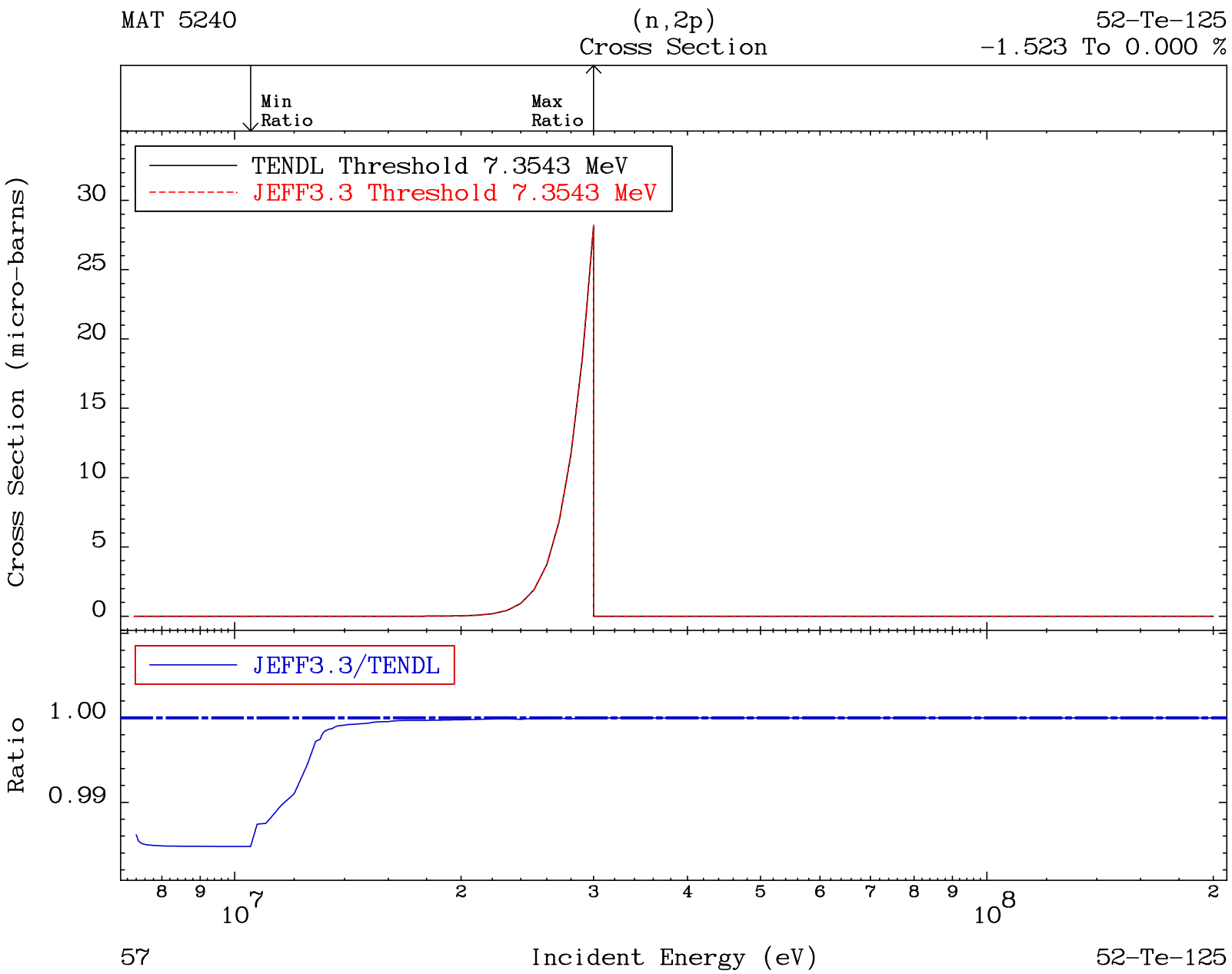

MAT 5240
(n,d)
Cross Section
52-Te-125
0.000 To 8.540 %
Max Ratio
Min Ratio
TENDL Threshold 6.5194 MeV
JEFF3.3 Threshold 6.5186 MeV
Cross Section (milli-barns)
18
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
52
Incident Energy (eV)
52-Te-125

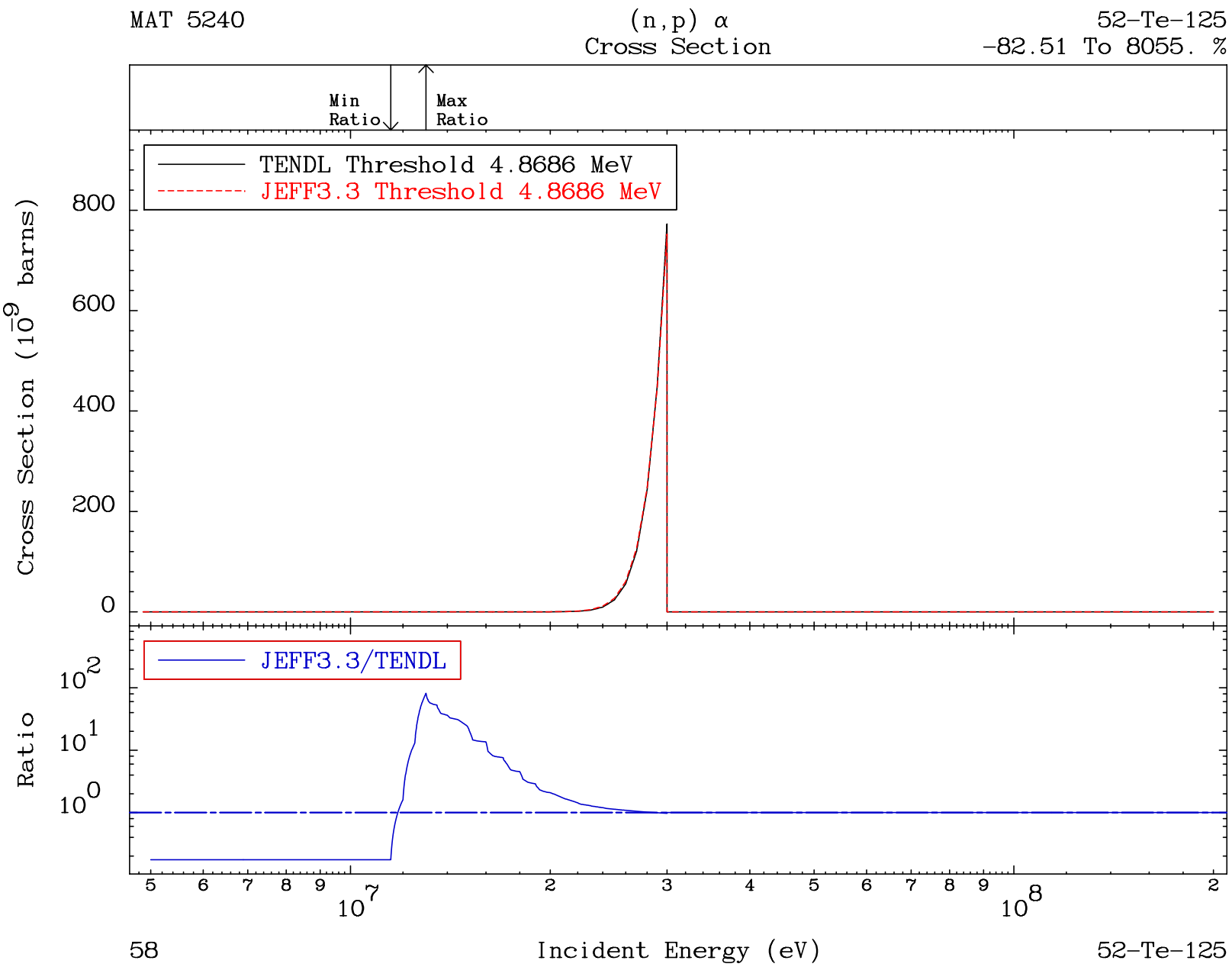

MAT 5240
(n,t)
Cross Section
52-Te-125
0.000 To 2.363 %
Max Ratio
Min Ratio
TENDL Threshold 6.7313 MeV
JEFF3.3 Threshold 6.7305 MeV
Cross Section (milli-barns)
0
2
4
6
8
JEFF3.3/TENDL
Ratio
1.00
1.01
1.02
1.03
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
53
Incident Energy (eV)
52-Te-125

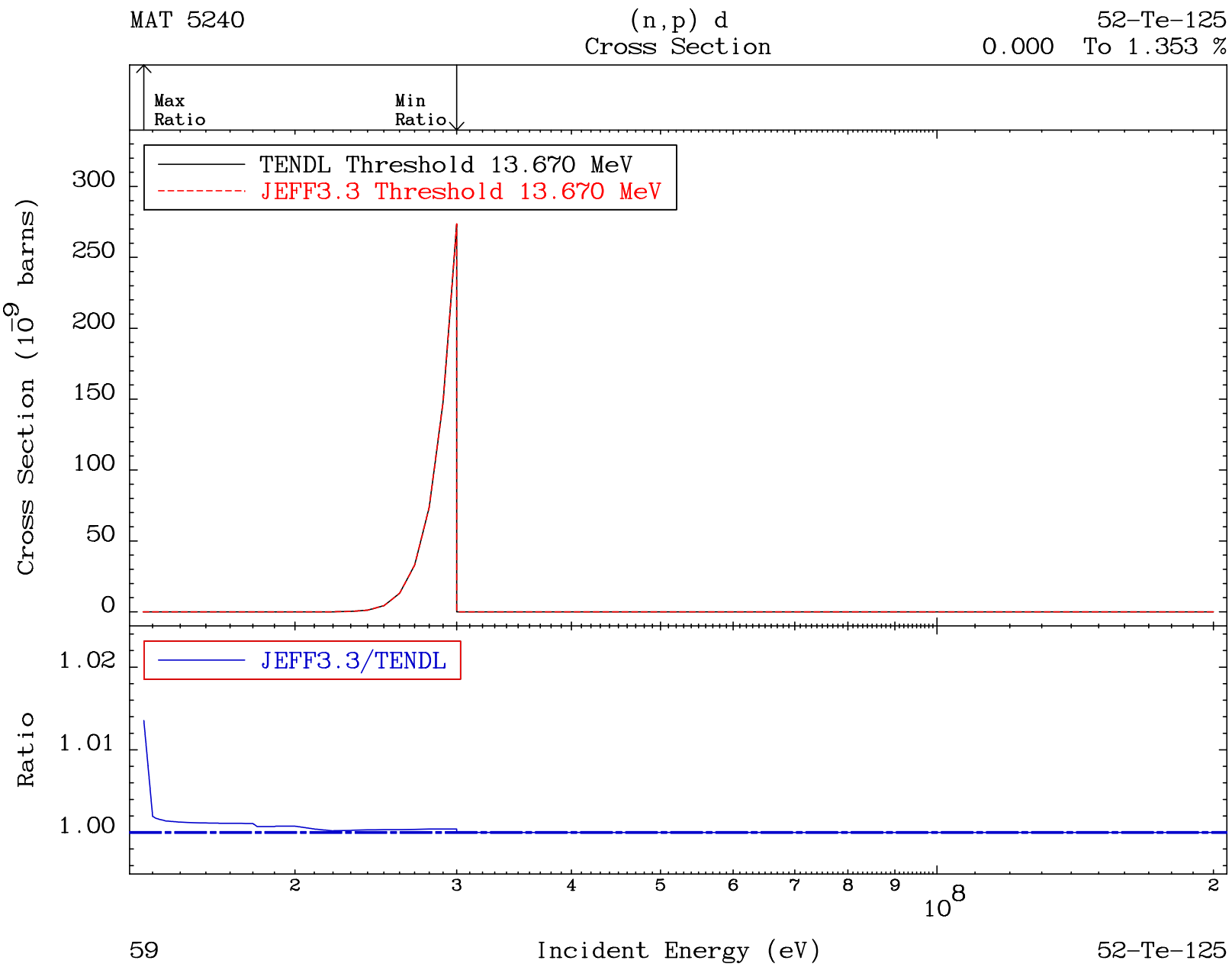

MAT 5240
(n,He-3)
Cross Section
52-Te-125
0.000 To 0.999 %
Max Ratio
Min Ratio
TENDL Threshold 8.1318 MeV
JEFF3.3 Threshold 8.1318 MeV
Cross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
54
Incident Energy (eV)
52-Te-125

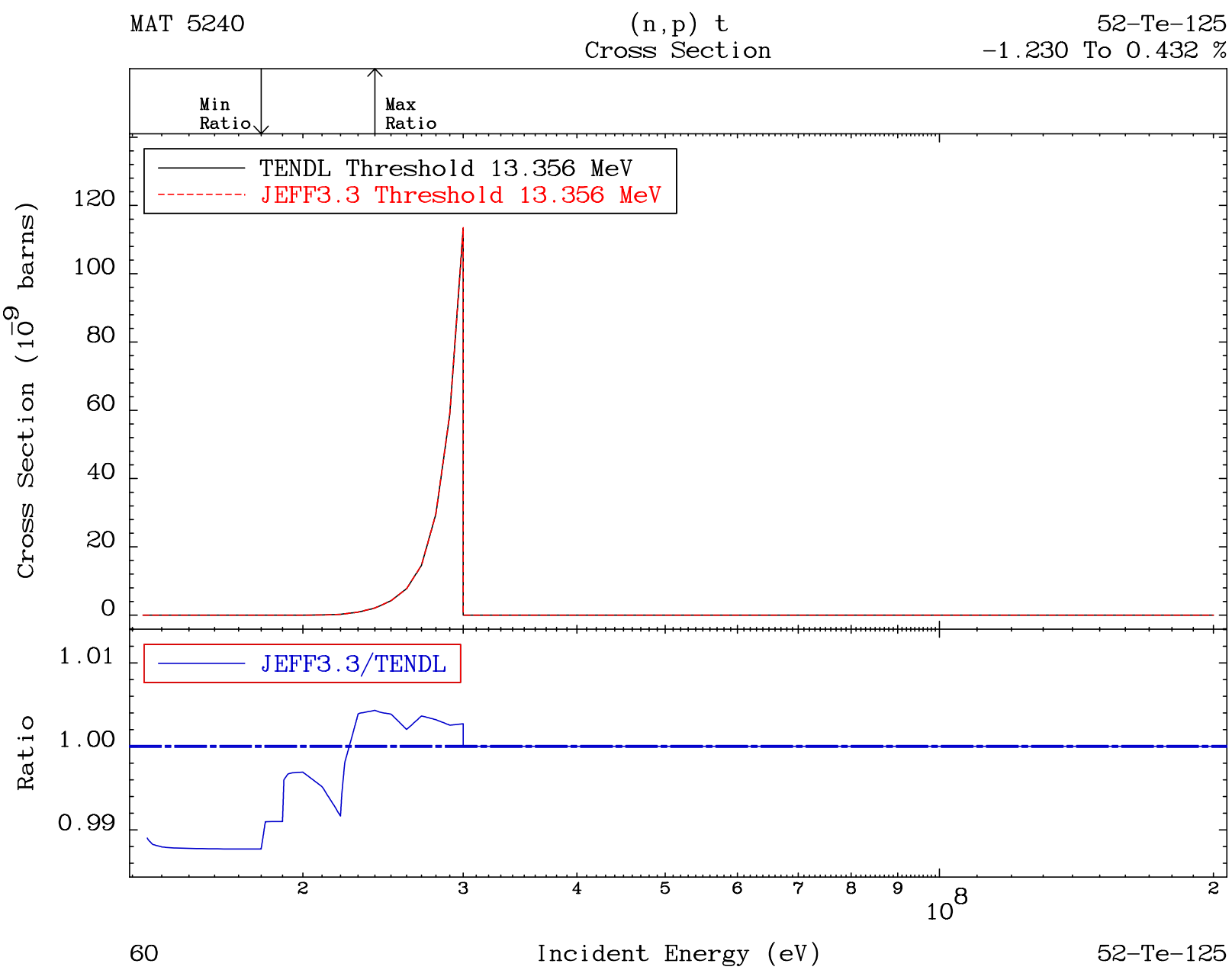

MAT 5240
(n,α)
Cross Section
52-Te-125
-6.449 To 1462. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
55
52-Te-125

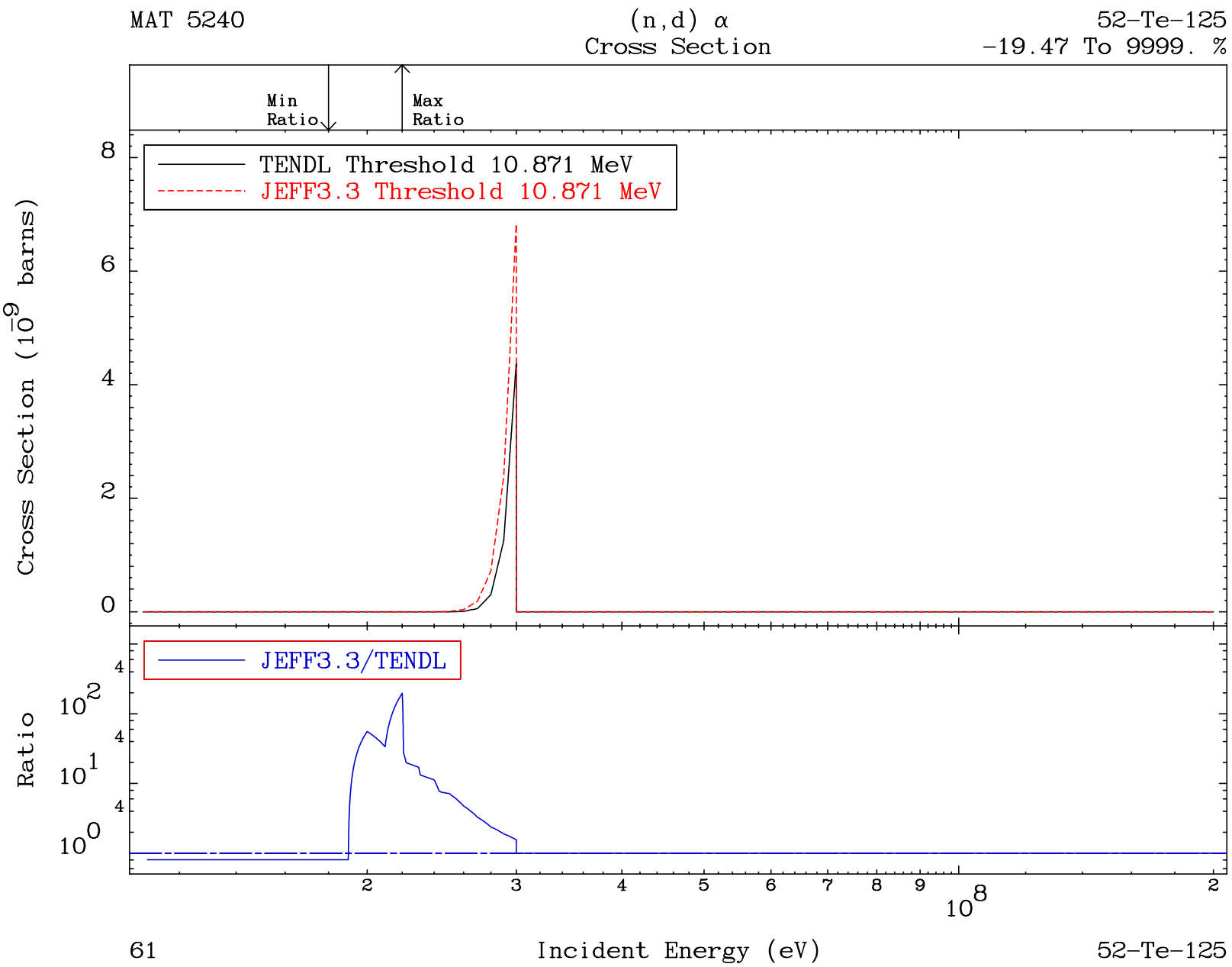

MAT 5240
(n,2α)
Cross Section
52-Te-125
0.000 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.7750 keV
JEFF3.3 Threshold 10.355 keV
Cross Section (10^{-9} barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^2
10^1
10^0
10^4
10^5
10^6
10^7
10^8
56
Incident Energy (eV)
52-Te-125

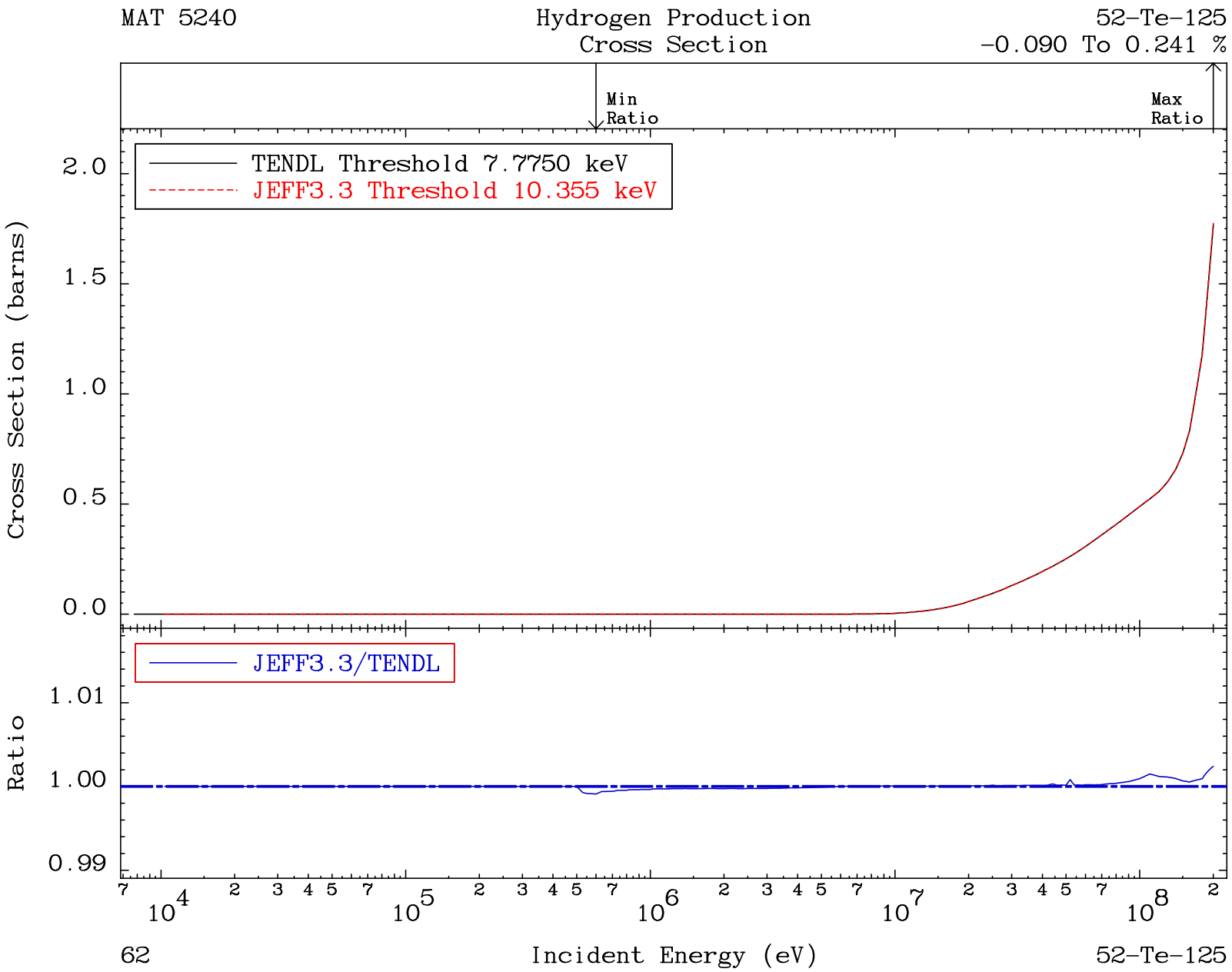

MAT 5240
(n,2p)
Cross Section
52-Te-125
-1.523 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 7.3543 MeV
JEFF3.3 Threshold 7.3543 MeV
Cross Section (micro-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.00
0.99
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
57
Incident Energy (eV)
52-Te-125

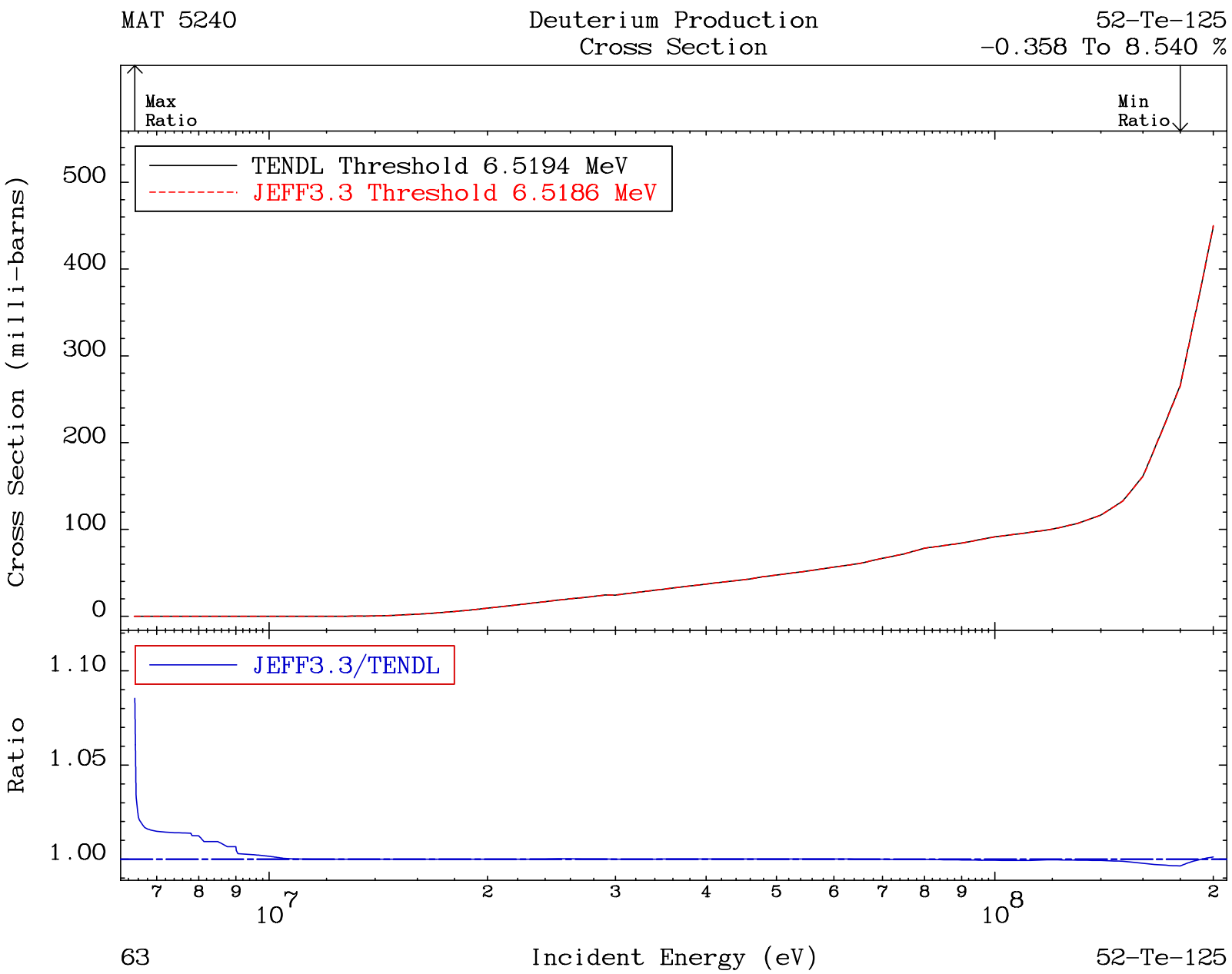

MAT 5240
(n,p) α
Cross Section
52-Te-125
-82.51 To 8055. %
Min Ratio
Max Ratio
TENDL Threshold 4.8686 MeV
JEFF3.3 Threshold 4.8686 MeV
Cross Section (10^{-9} barns)
800
600
400
200
0
JEFF3.3/TENDL
Ratio
10^{2}
10^{1}
10^{0}
5 6 7 8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
58
Incident Energy (eV)
52-Te-125

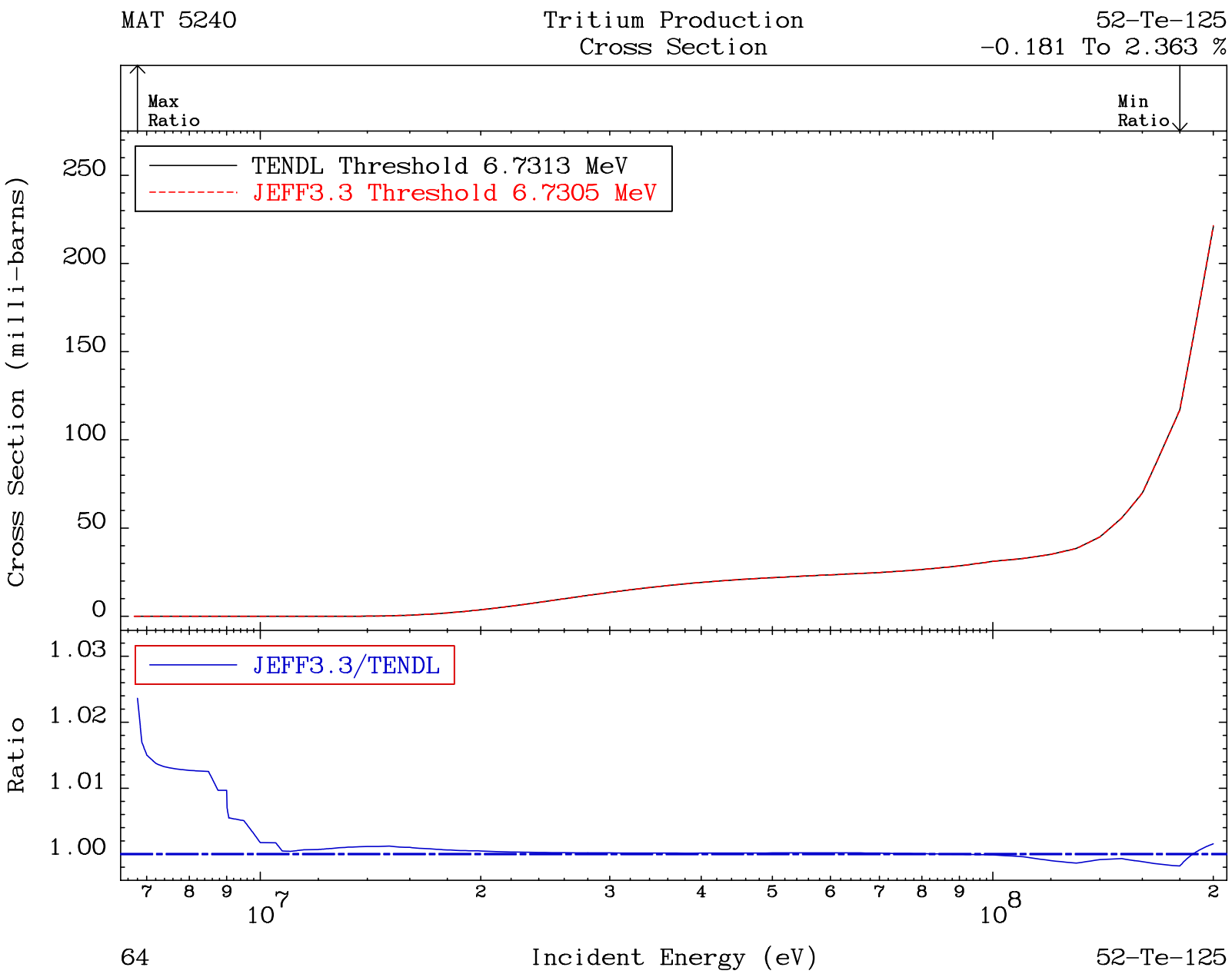

MAT 5240
(n,p) d
Cross Section
52-Te-125
0.000 To 1.353 %
Max Ratio
Min Ratio
TENDL Threshold 13.670 MeV
JEFF3.3 Threshold 13.670 MeV
Cross Section (10-9 barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
59
Incident Energy (eV)
52-Te-125

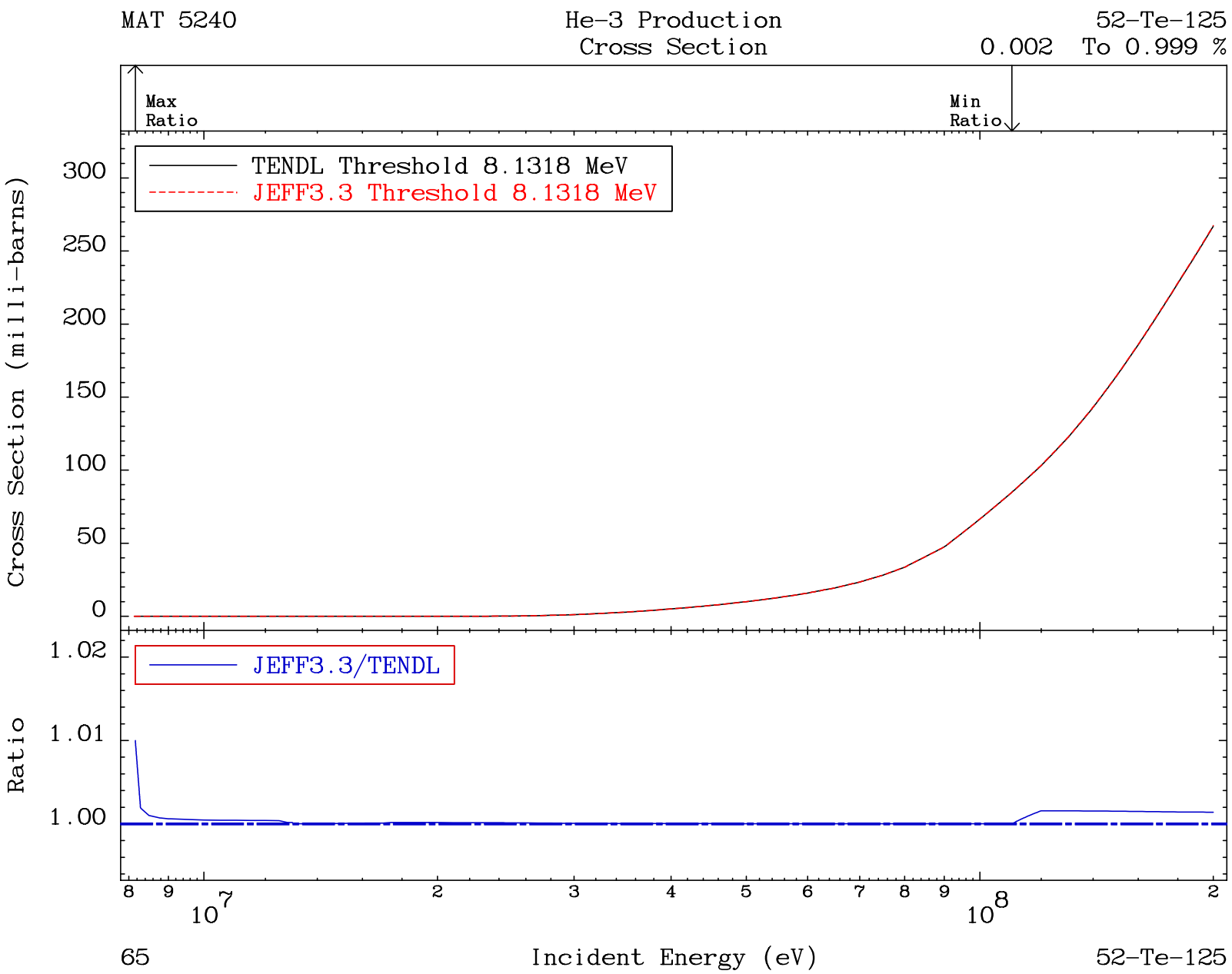

MAT 5240
(n,p) t
Cross Section
52-Te-125
-1.230 To 0.432 %
Min Ratio
Max Ratio
TENDL Threshold 13.356 MeV
JEFF3.3 Threshold 13.356 MeV
Cross Section (10^{-9} barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^{8}
2
60
Incident Energy (eV)
52-Te-125

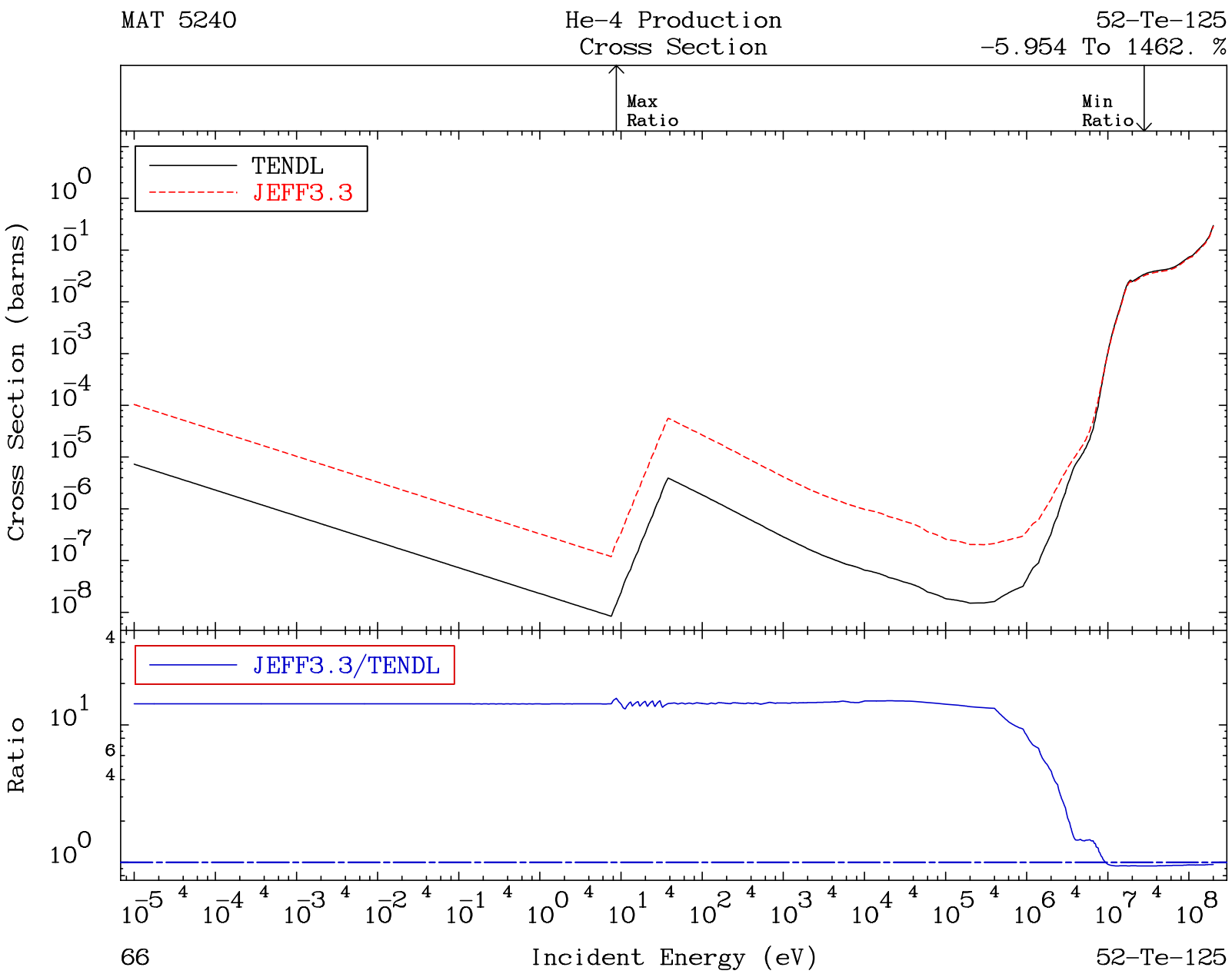

MAT 5240
(n,d) α
Cross Section
52-Te-125
-19.47 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 10.871 MeV
JEFF3.3 Threshold 10.871 MeV
Cross Section (10^-9 barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
61
52-Te-125

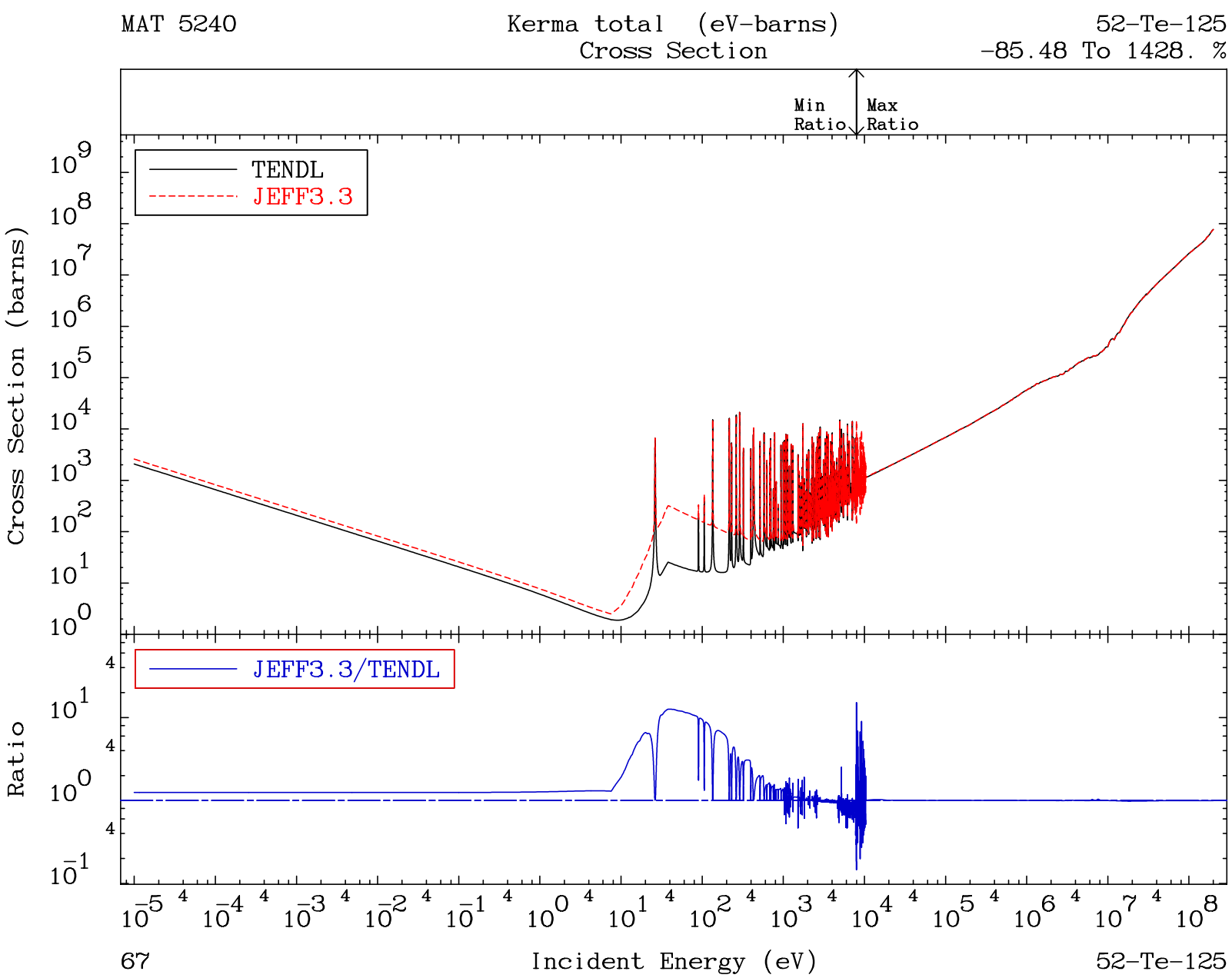

MAT 5240
Hydrogen Production
Cross Section
52-Te-125
-0.090 To 0.241 %
Min Ratio
Max Ratio
TENDL Threshold 7.7750 keV
JEFF3.3 Threshold 10.355 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
7 2 3 4 5 7 2 3 4 5 7 2 3 4 5 7 2 3 4 5 7 2
10^4 10^5 10^6 10^7 10^8
62
Incident Energy (eV)
52-Te-125

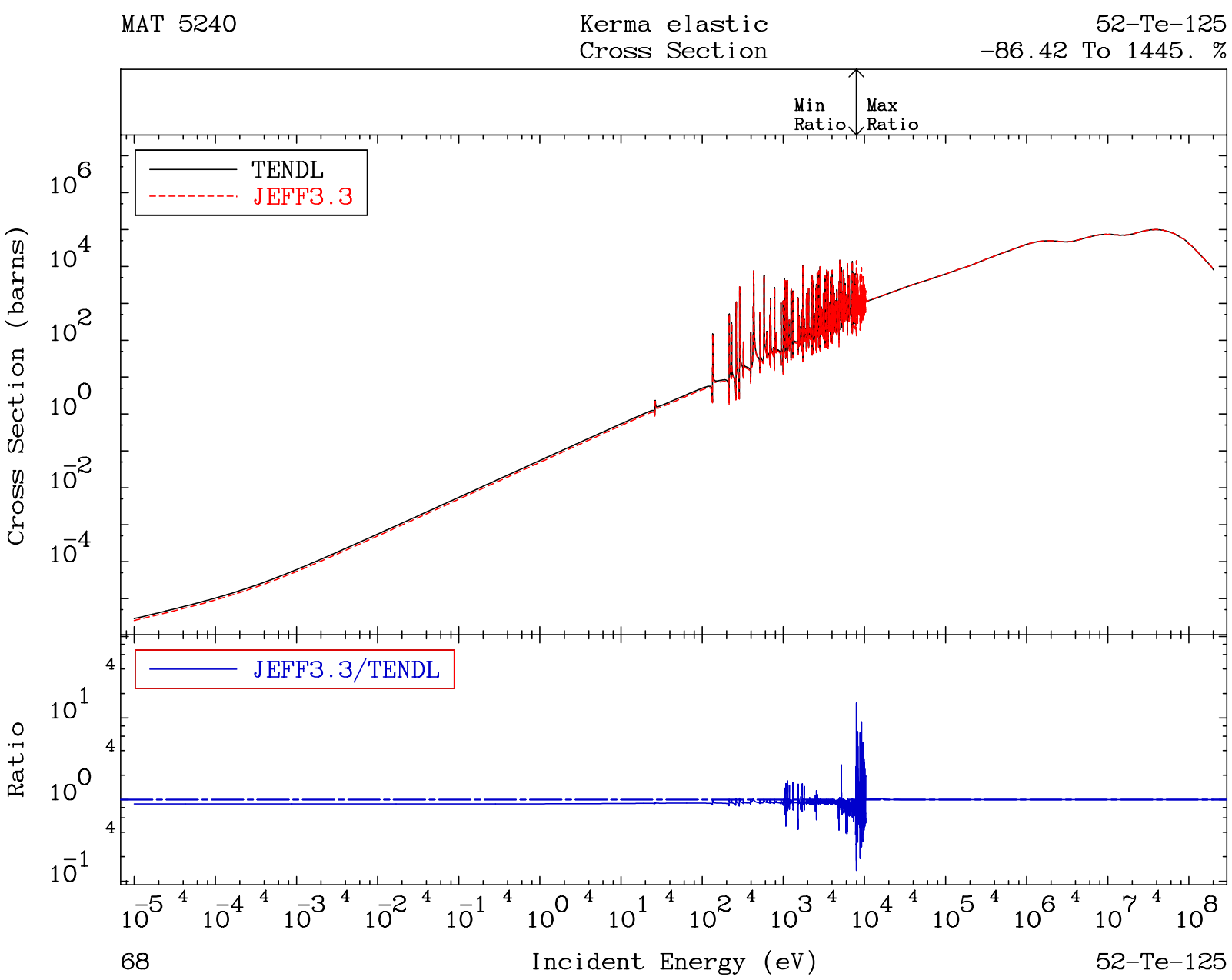

MAT 5240
Deuterium Production
Cross Section
52-Te-125
-0.358 To 8.540 %
Max
Ratio
Min
Ratio
TENDL Threshold 6.5194 MeV
JEFF3.3 Threshold 6.5186 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
63
Incident Energy (eV)
52-Te-125

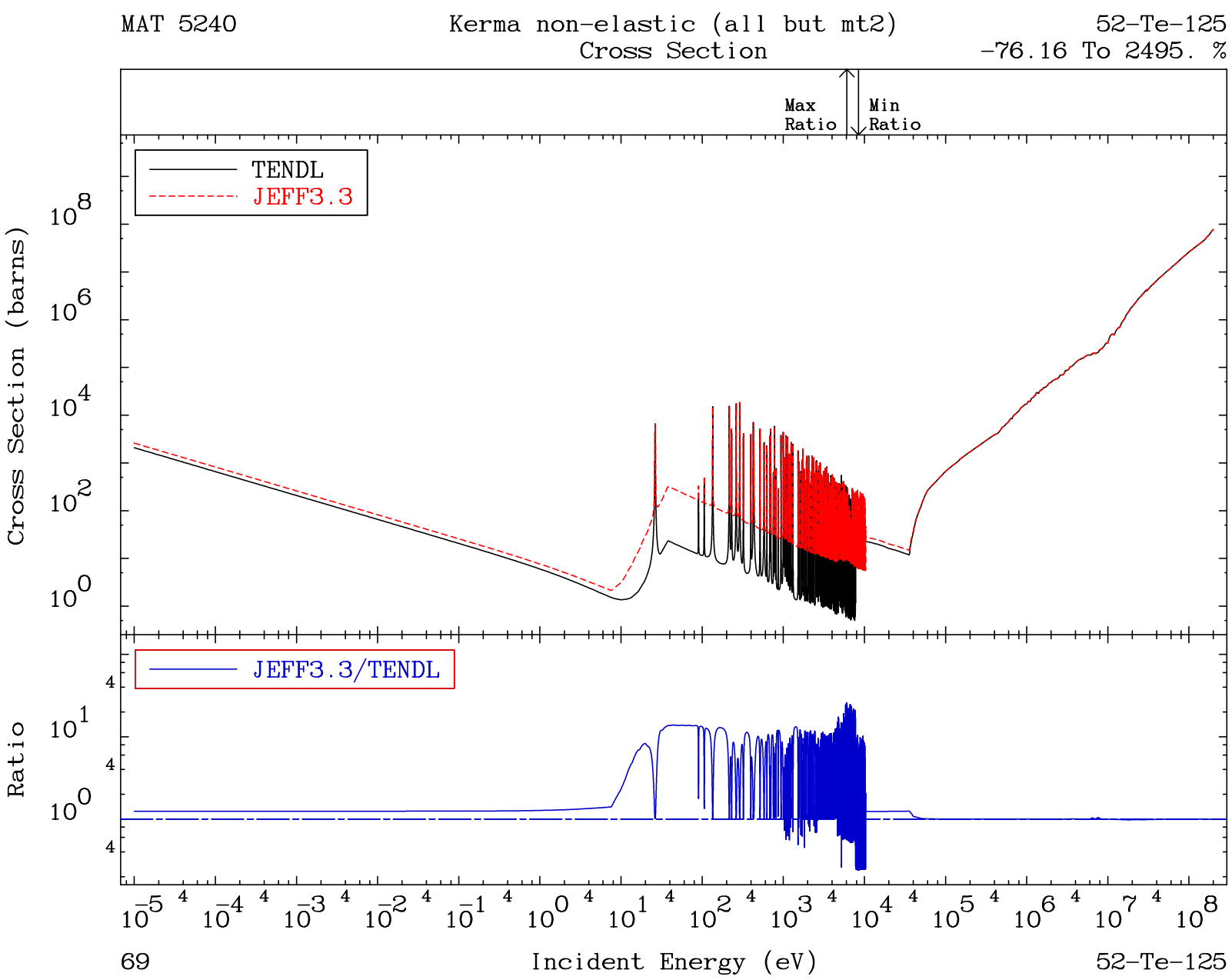

MAT 5240
Tritium Production
Cross Section
52-Te-125
-0.181 To 2.363 %
Max
Ratio
Min
Ratio
TENDL Threshold 6.7313 MeV
JEFF3.3 Threshold 6.7305 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.03
1.02
1.01
1.00
7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
64
Incident Energy (eV)
52-Te-125

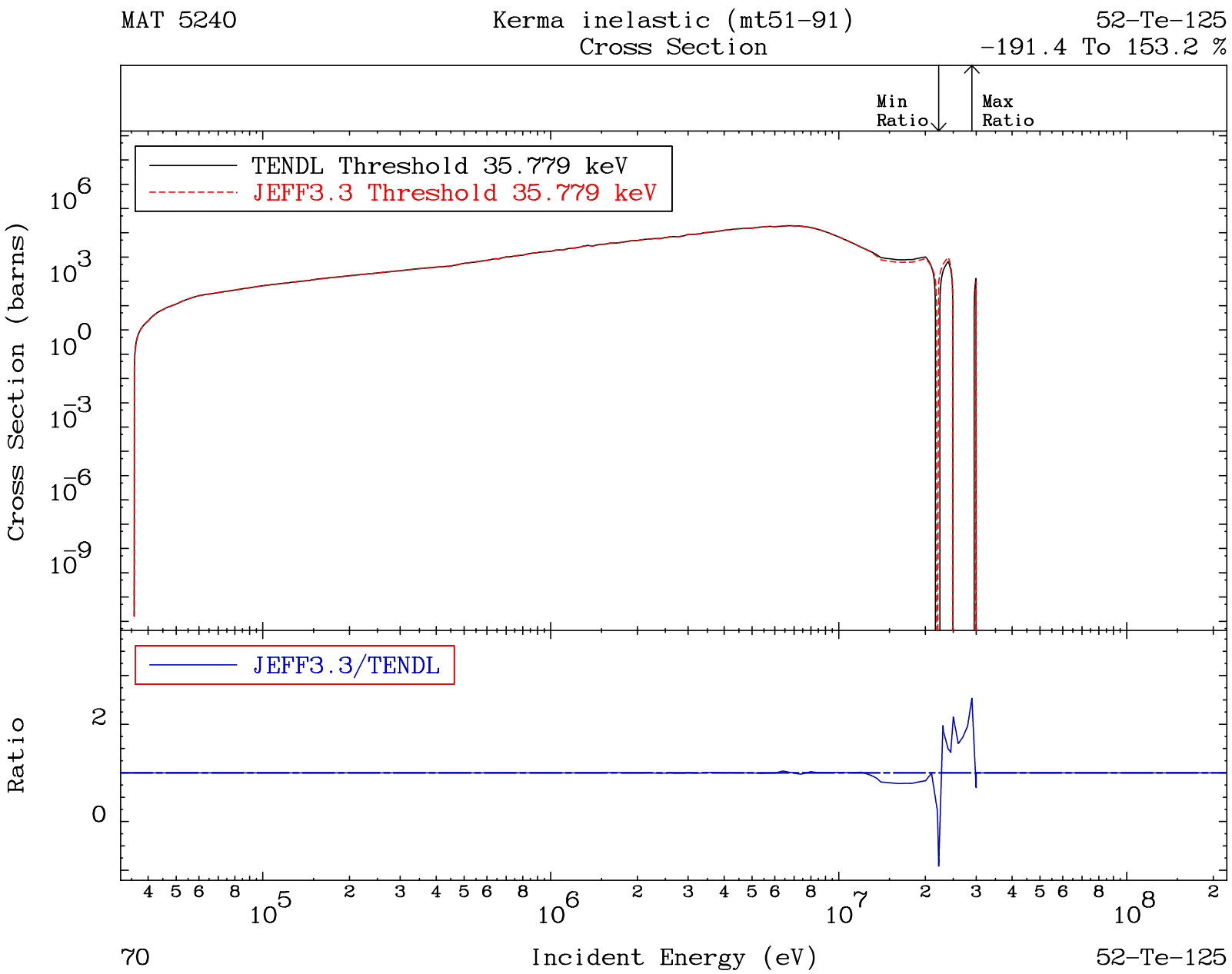

MAT 5240
He-3 Production
Cross Section
52-Te-125
0.002 To 0.999 %
Max Ratio
Min Ratio
TENDL Threshold 8.1318 MeV
JEFF3.3 Threshold 8.1318 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
65
Incident Energy (eV)
52-Te-125

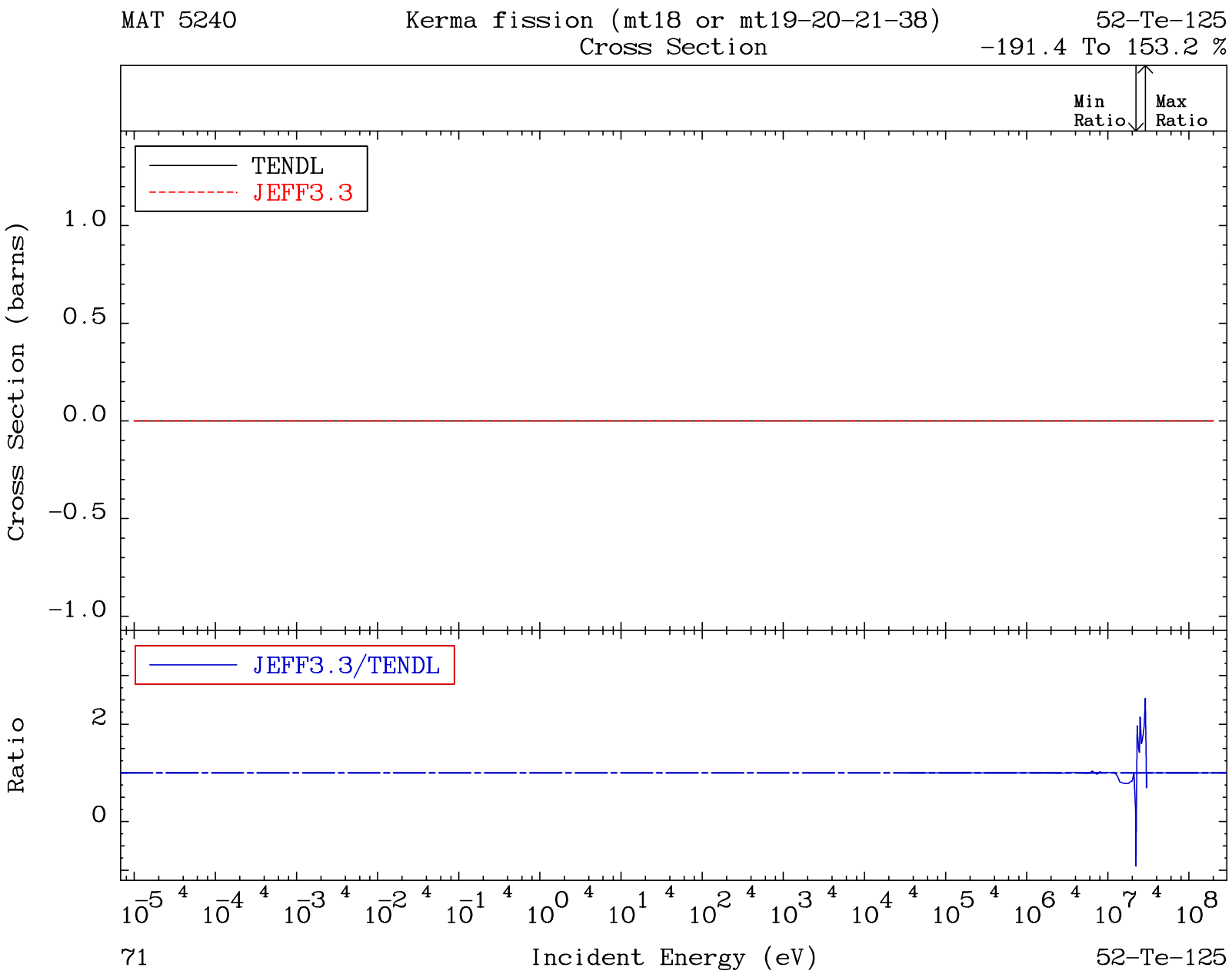

MAT 5240
He-4 Production
Cross Section
52-Te-125
-5.954 To 1462. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
66
52-Te-125

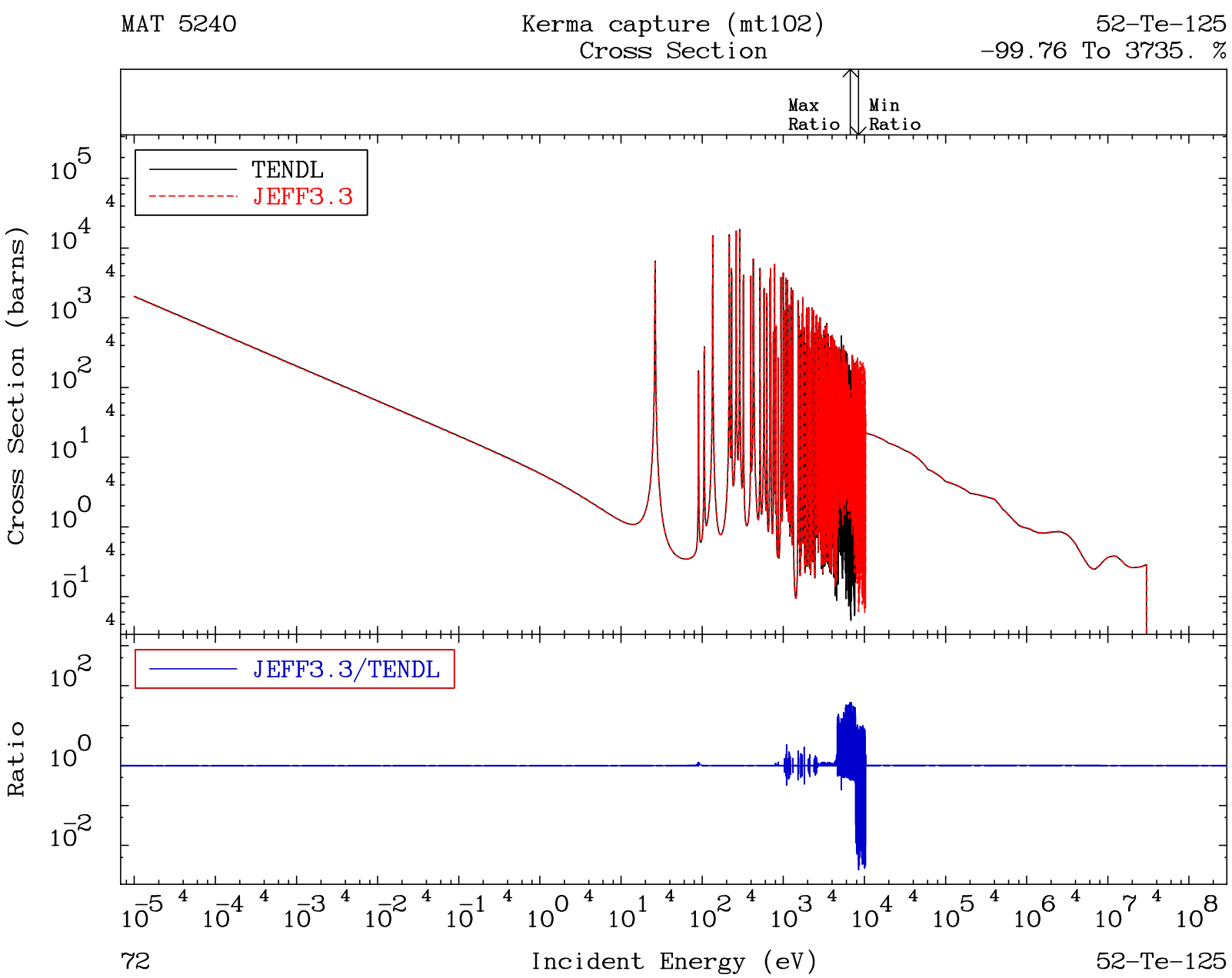

MAT 5240
Kerma total (eV-barns)
Cross Section
52-Te-125
-85.48 To 1428. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
67
Incident Energy (eV)
52-Te-125

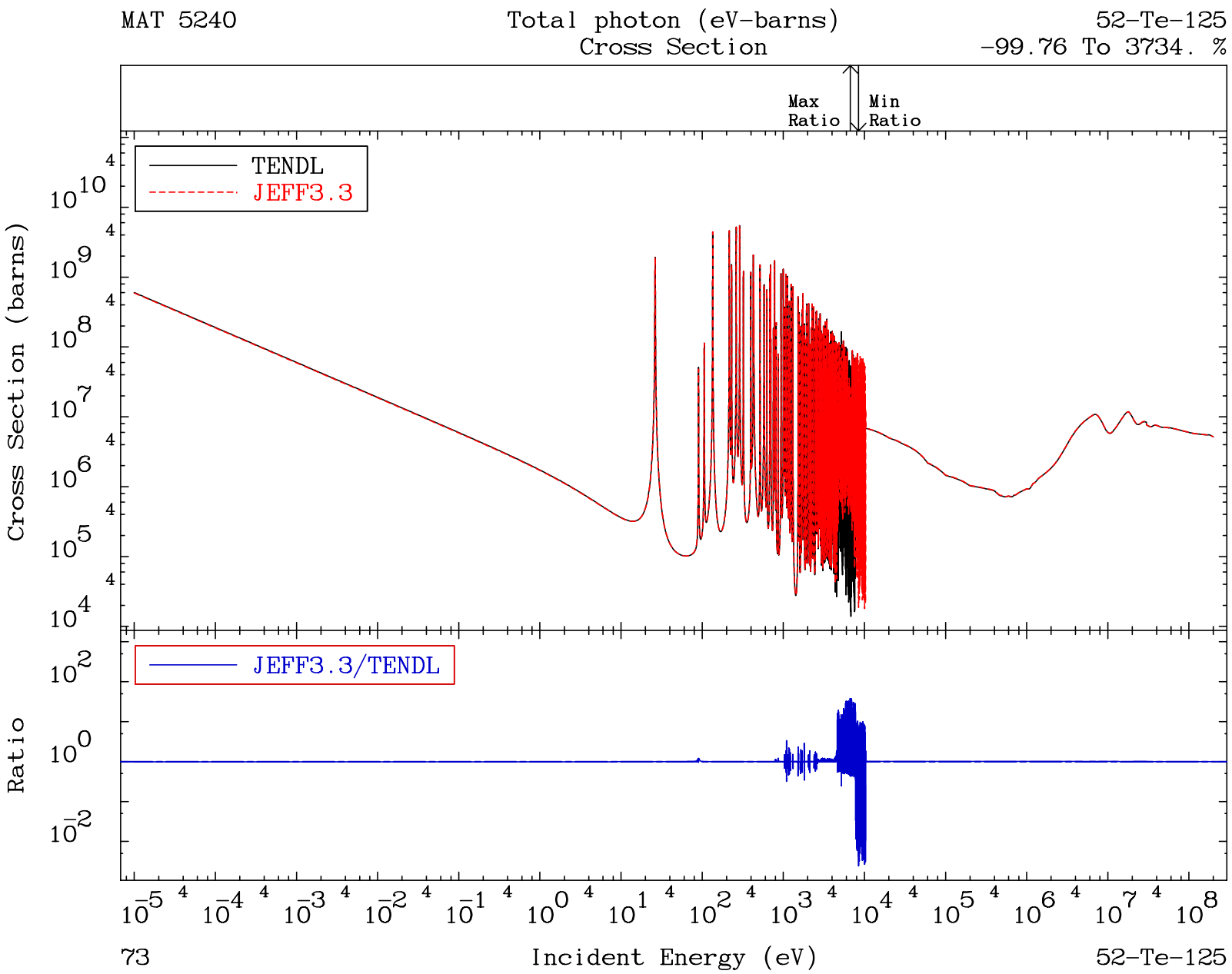

MAT 5240
Kerma elastic
Cross Section
52-Te-125
-86.42 To 1445. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
68
52-Te-125

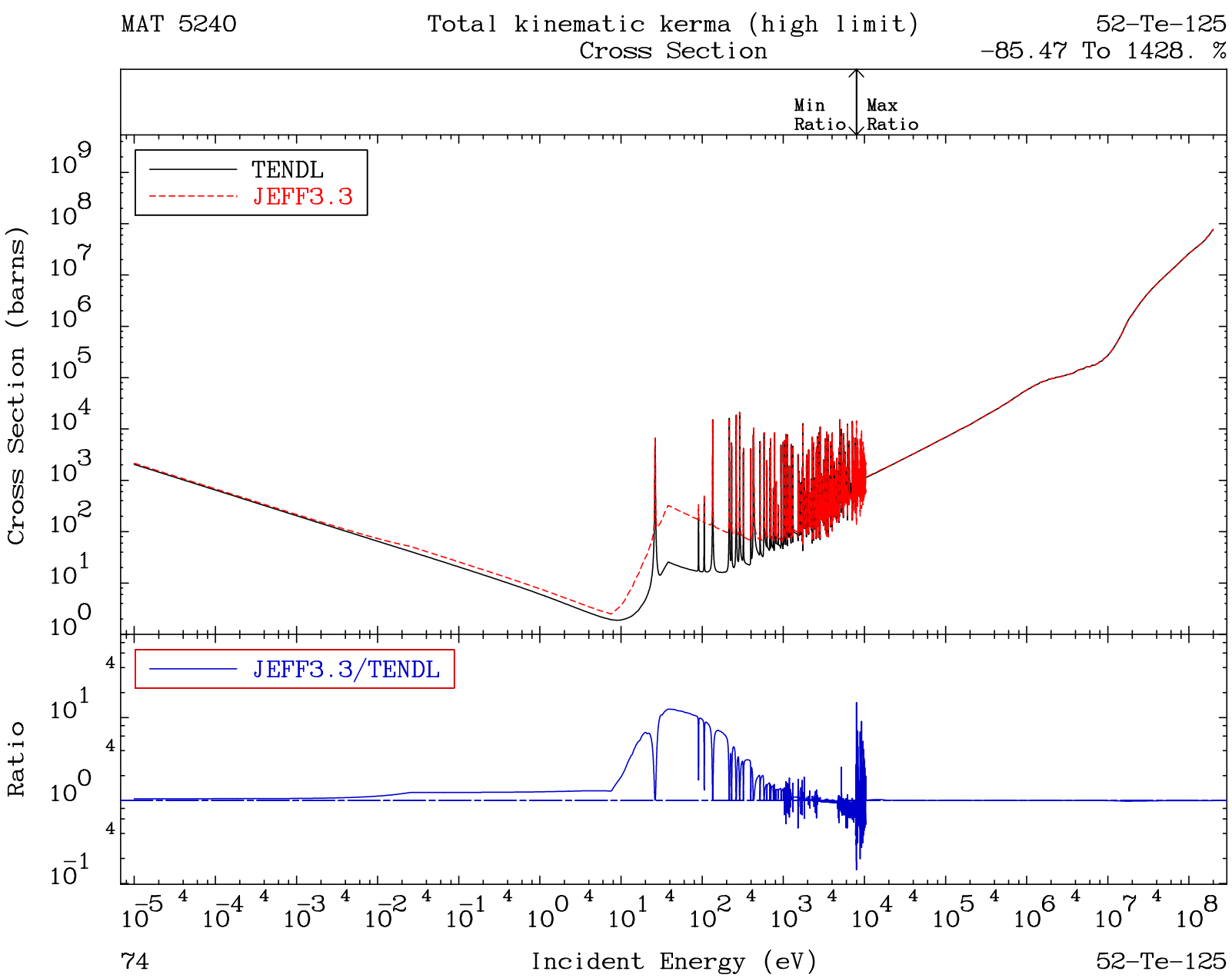

MAT 5240
Kerma non-elastic (all but mt2)
Cross Section
52-Te-125
-76.16 To 2495. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
69
52-Te-125

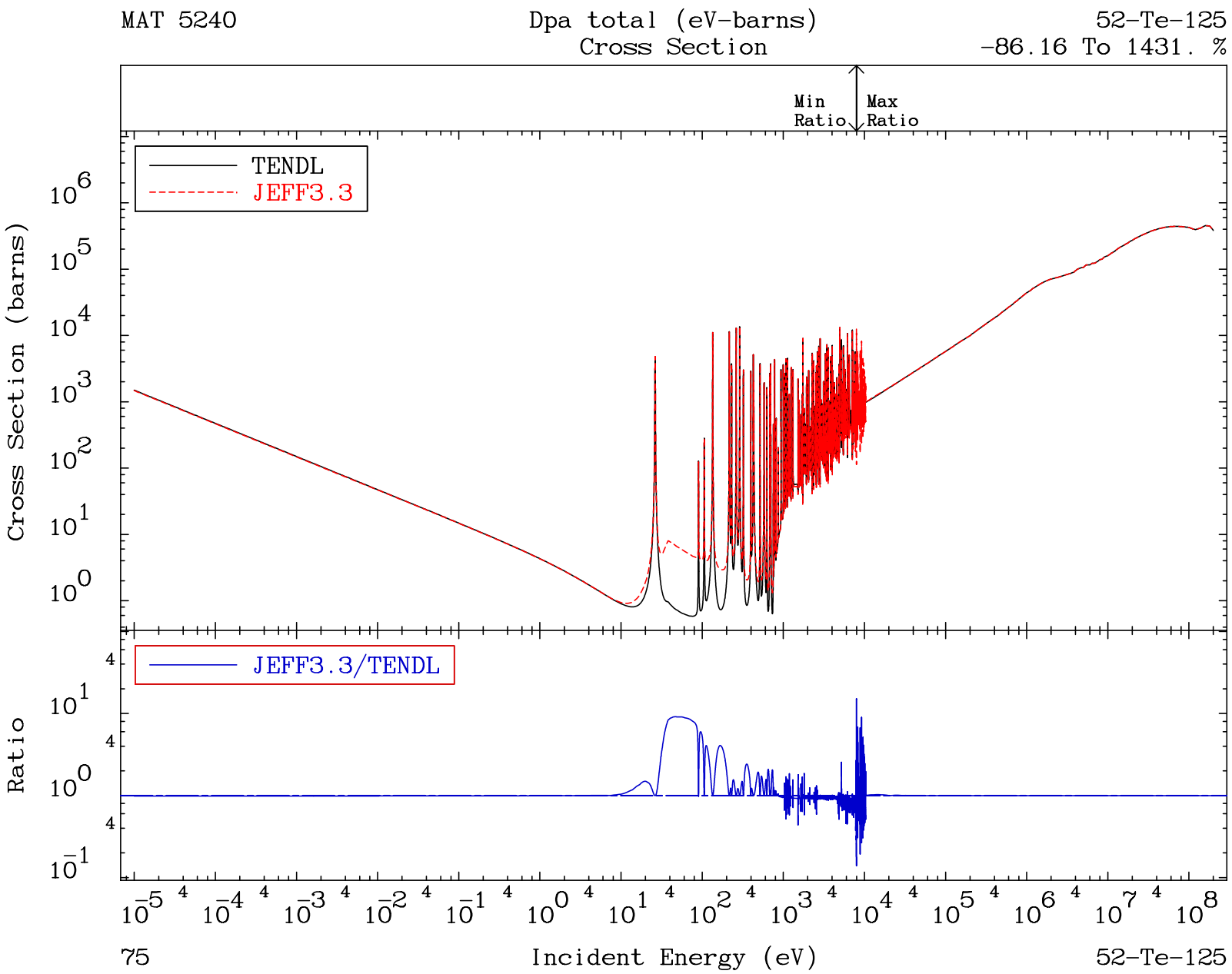

MAT 5240
Kerma inelastic (mt51-91)
Cross Section
52-Te-125
-191.4 To 153.2 %
Min Ratio
Max Ratio
TENDL Threshold 35.779 keV
JEFF3.3 Threshold 35.779 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
70
52-Te-125

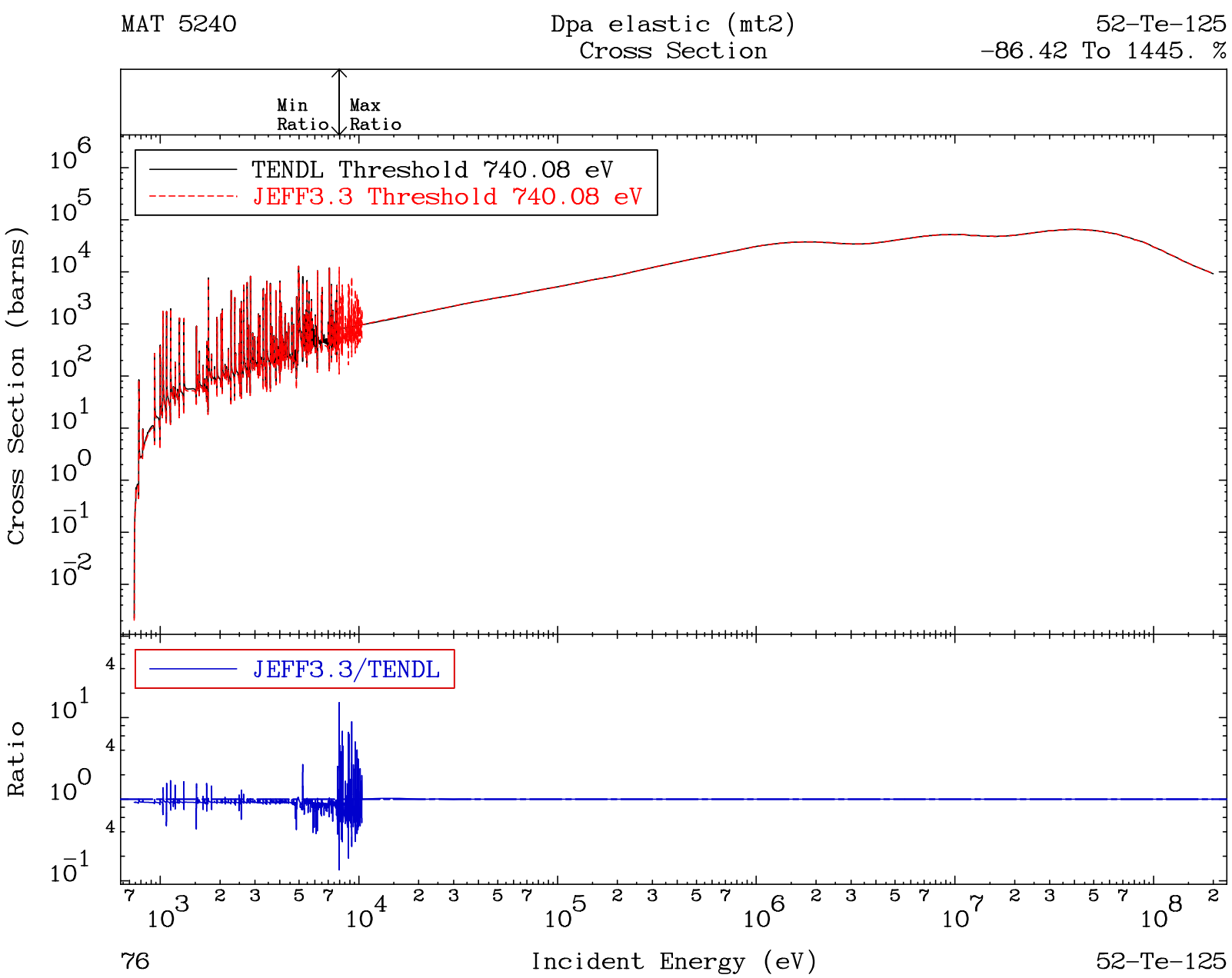

MAT 5240
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
52-Te-125
-191.4 To 153.2 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JEFF3.3/TENDL
Ratio
2
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
71
Incident Energy (eV)
52-Te-125

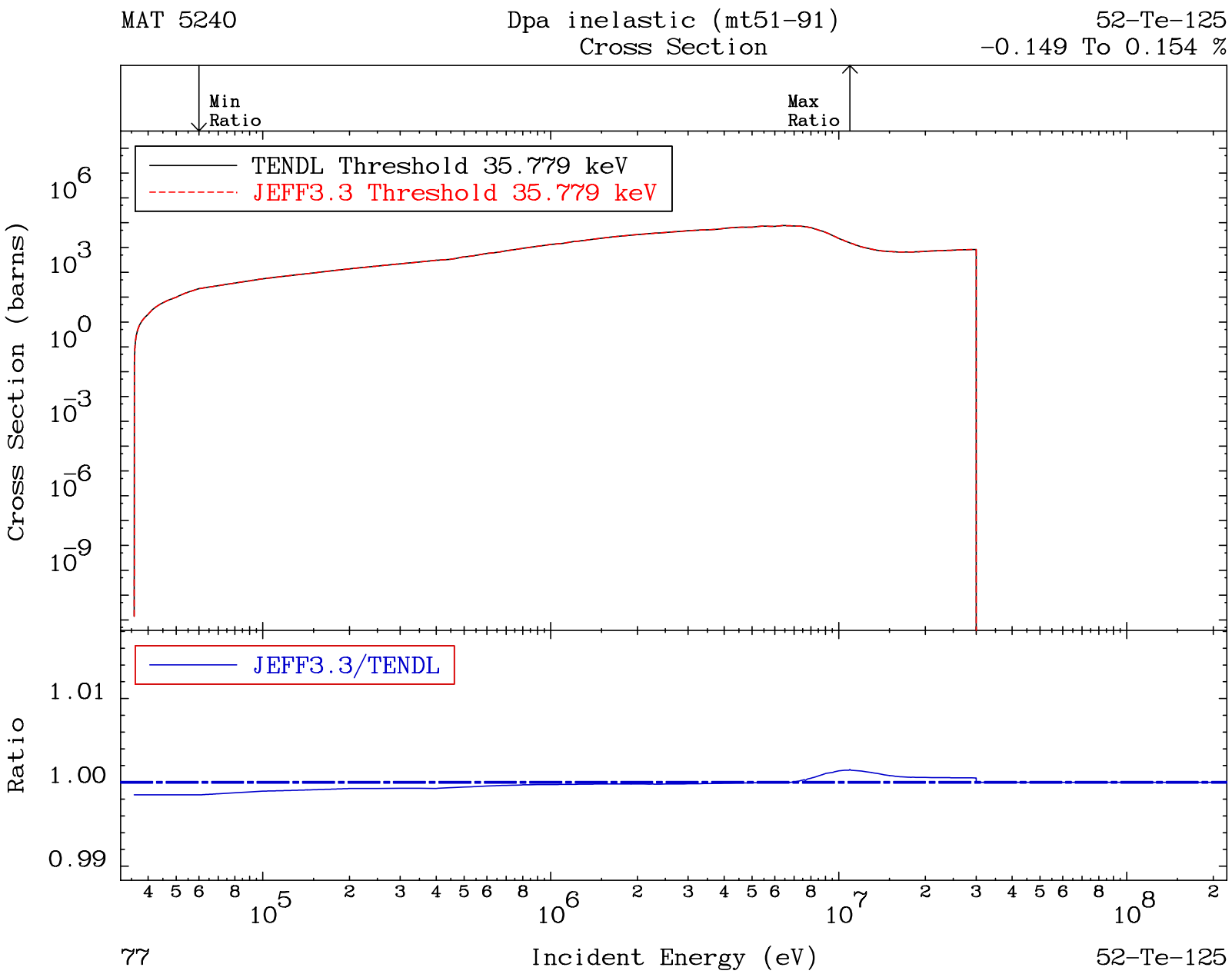

MAT 5240
Kerma capture (mt102)
Cross Section
52-Te-125
-99.76 To 3735. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
72
52-Te-125

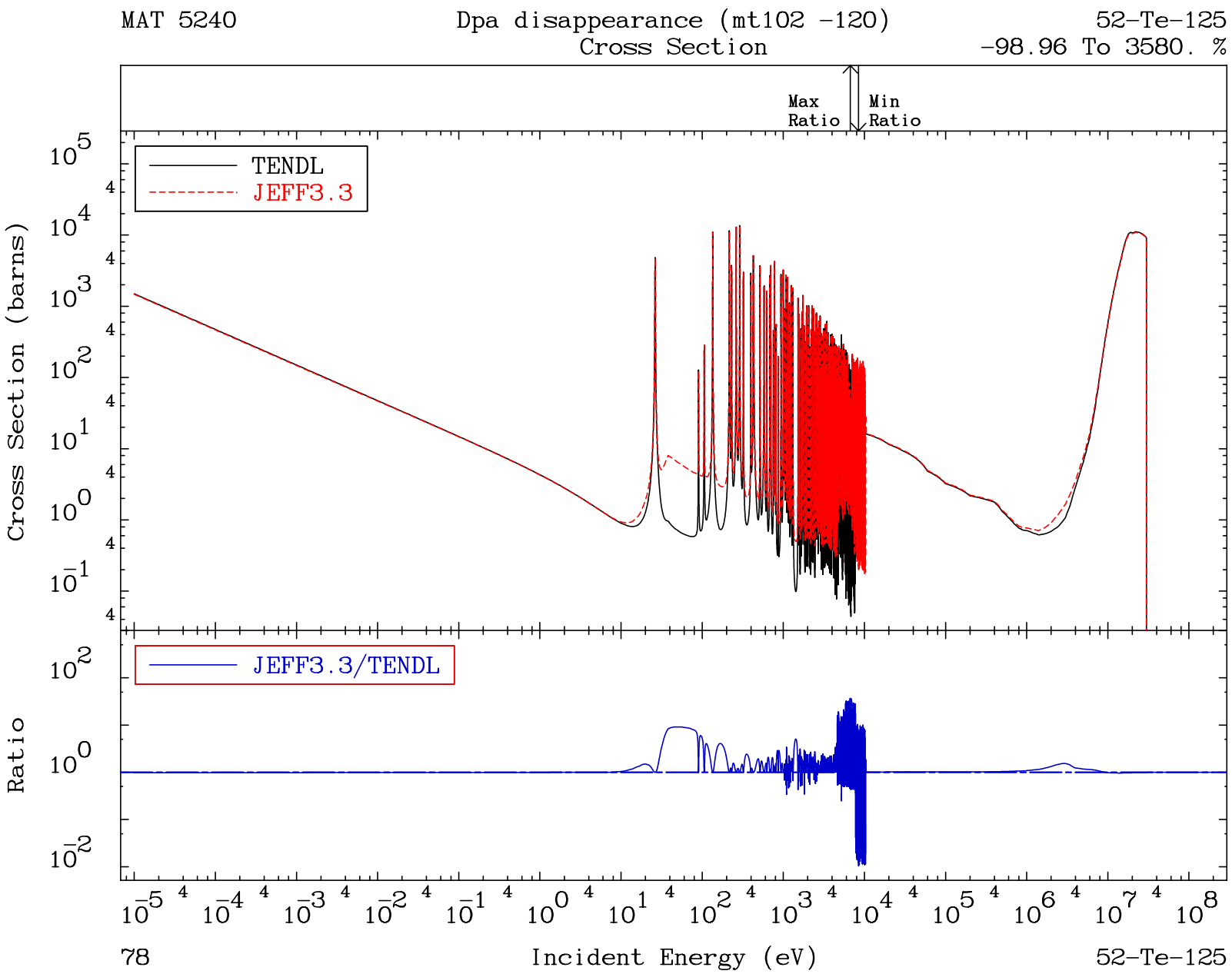

MAT 5240
Total photon (eV-barns)
Cross Section
52-Te-125
-99.76 To 3734. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
73
52-Te-125

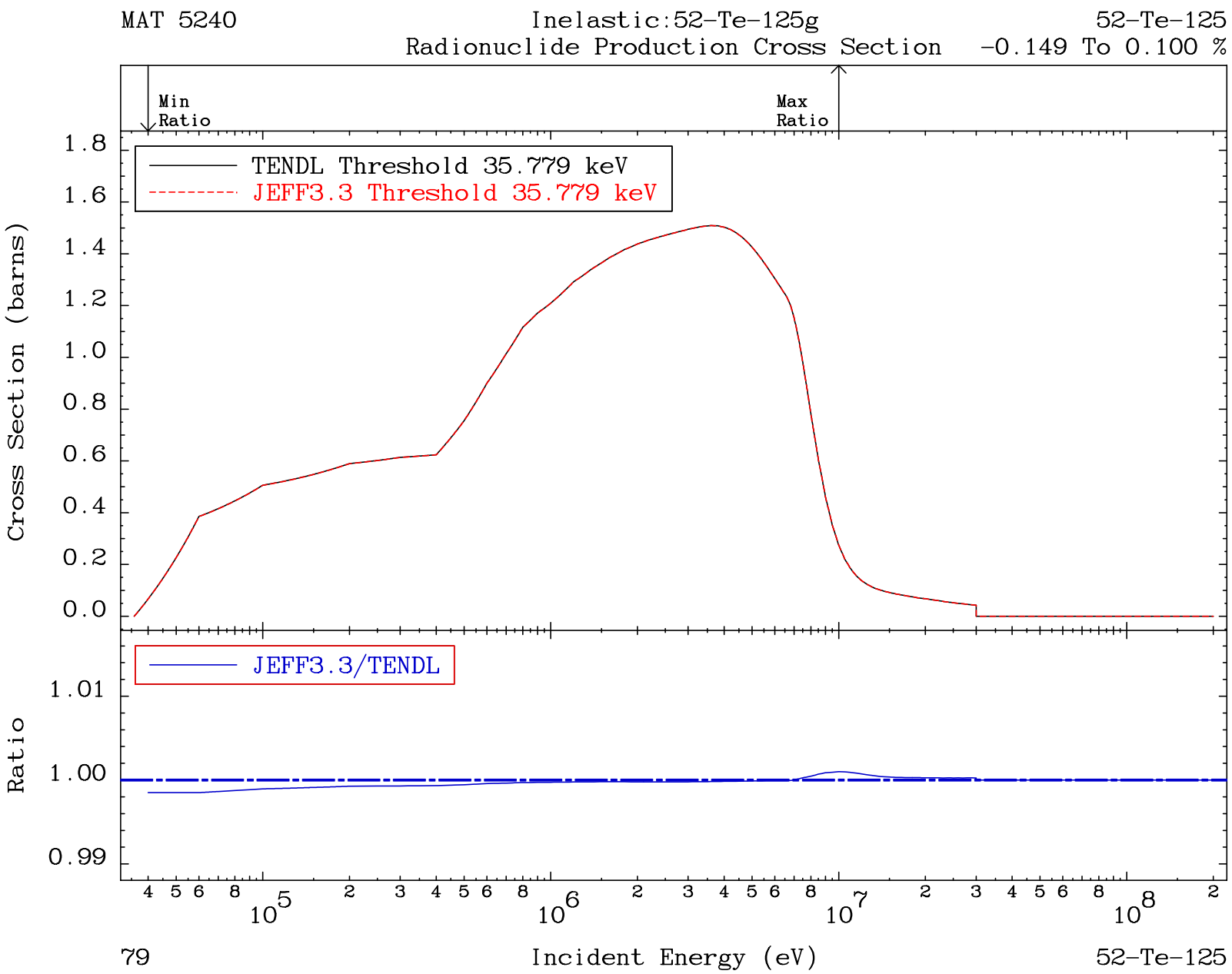

MAT 5240
Total kinematic kerma (high limit)
Cross Section
52-Te-125
-85.47 To 1428. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
74
52-Te-125

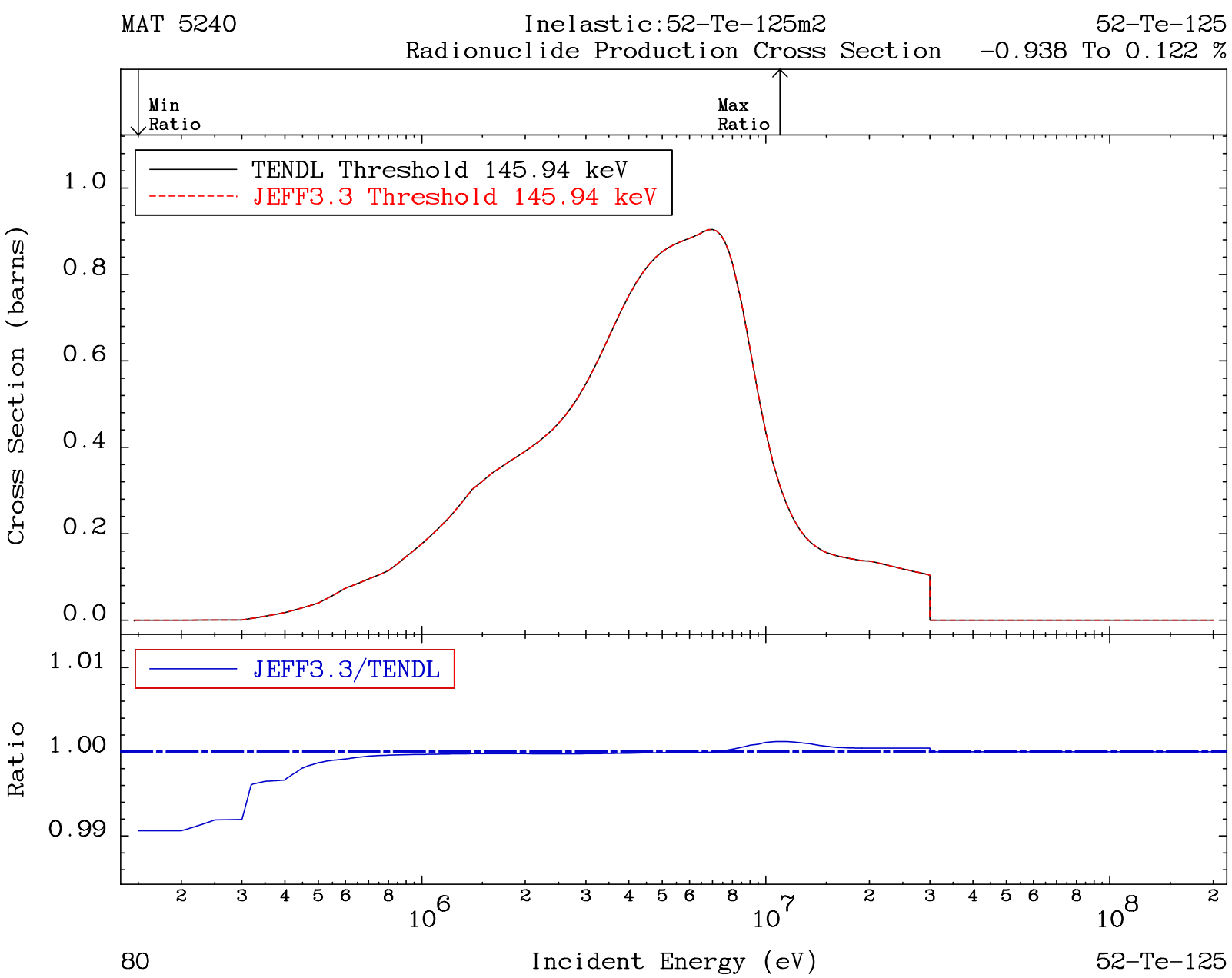

MAT 5240
Dpa total (eV-barns)
Cross Section
52-Te-125
-86.16 To 1431. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
75
52-Te-125

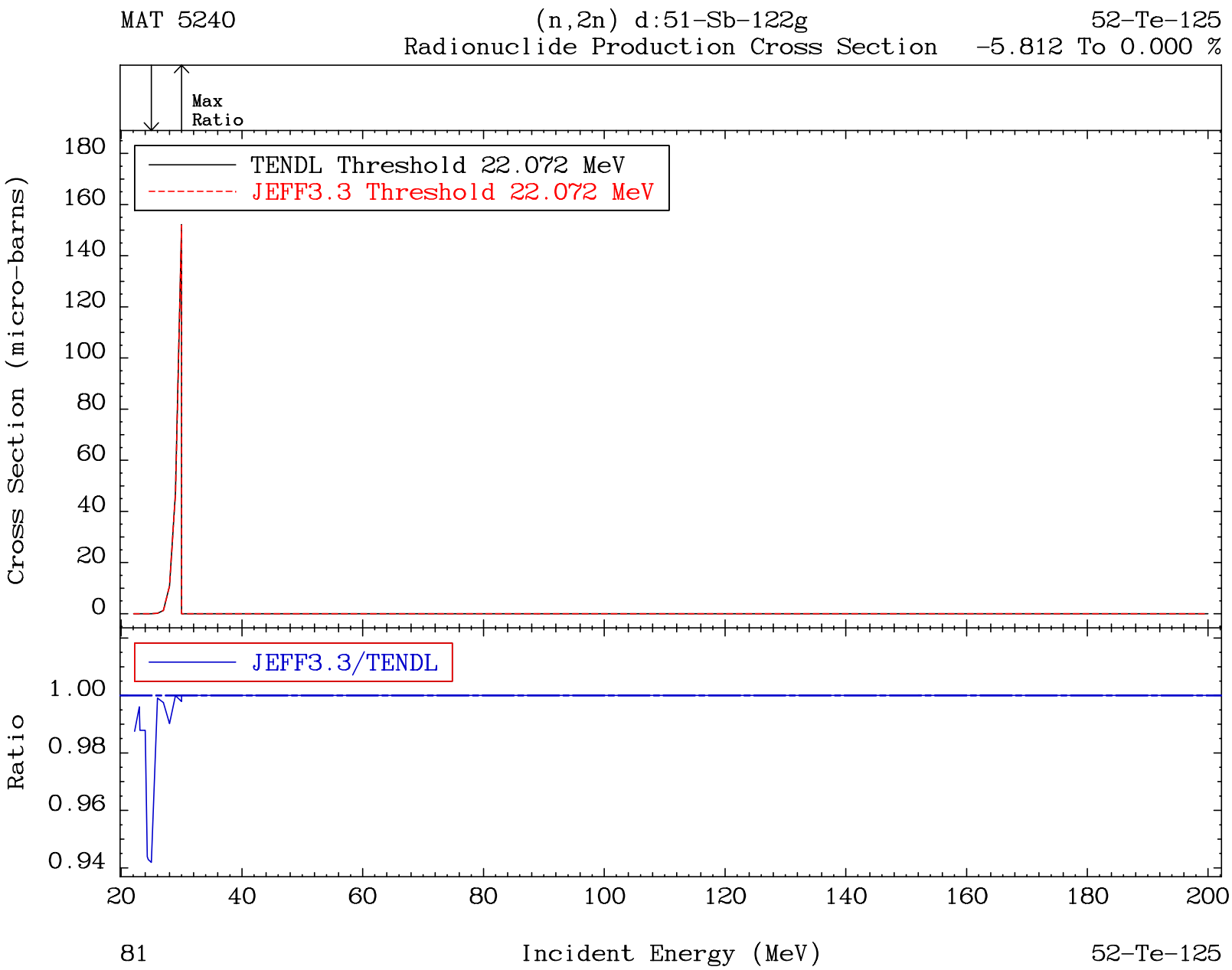

MAT 5240
Dpa elastic (mt2)
Cross Section
52-Te-125
-86.42 To 1445. %
Min Ratio
Max Ratio
TENDL Threshold 740.08 eV
JEFF3.3 Threshold 740.08 eV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
76
52-Te-125

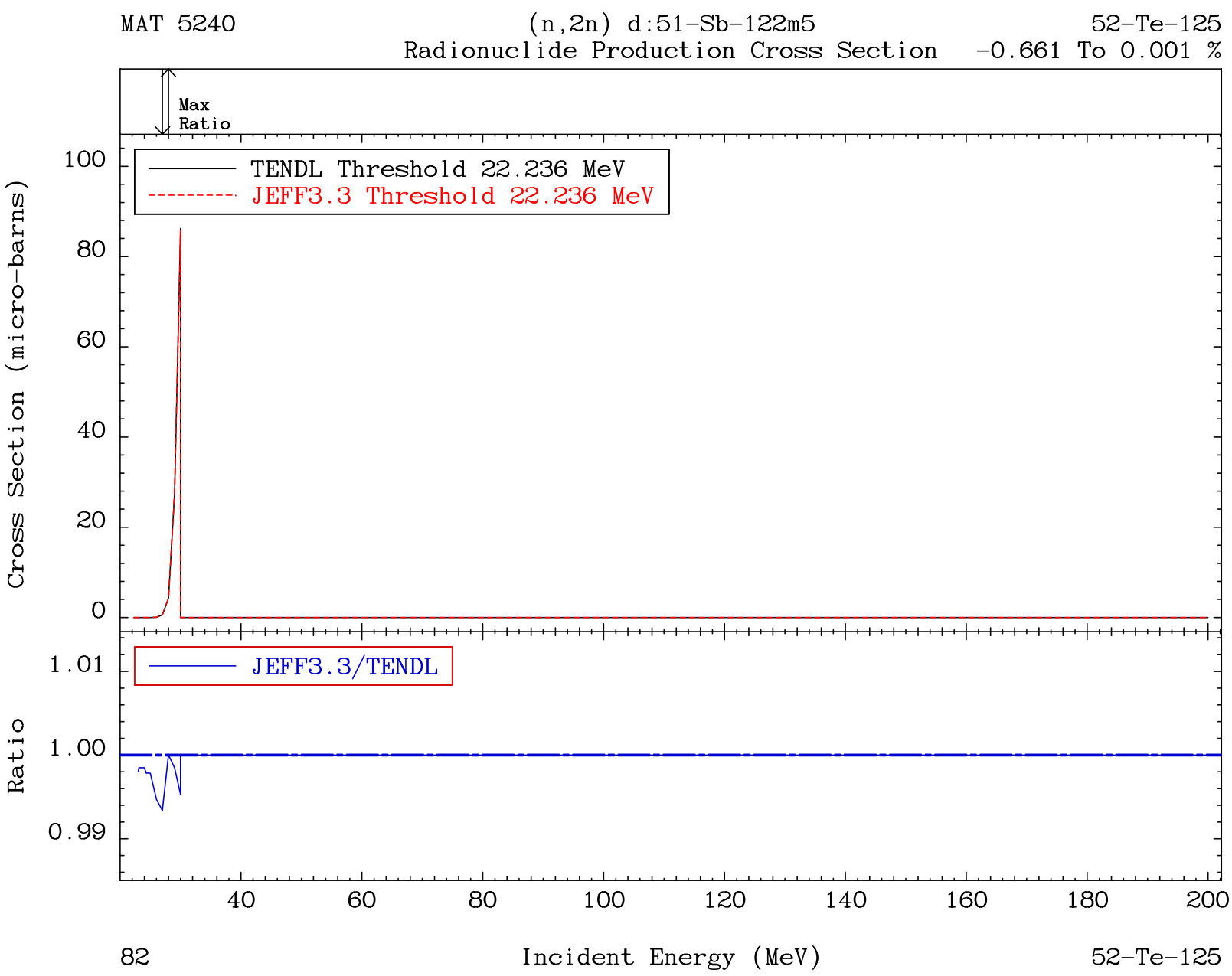

MAT 5240
Dpa inelastic (mt51-91)
Cross Section
52-Te-125
-0.149 To 0.154 %
Min Ratio
Max Ratio
TENDL Threshold 35.779 keV
JEFF3.3 Threshold 35.779 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
77
52-Te-125

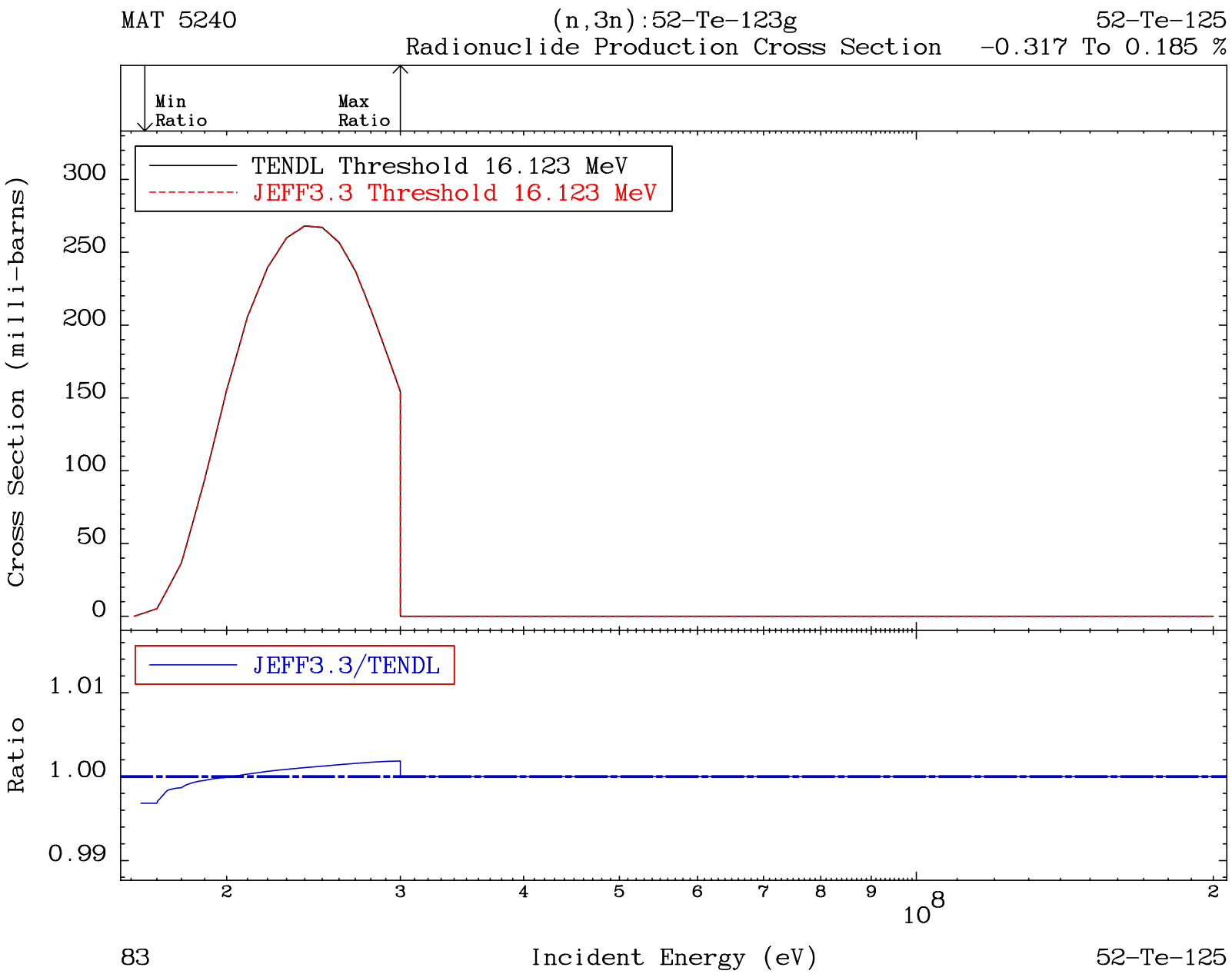

MAT 5240
Dpa disappearance (mt102 -120)
Cross Section
52-Te-125
-98.96 To 3580. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
78
52-Te-125

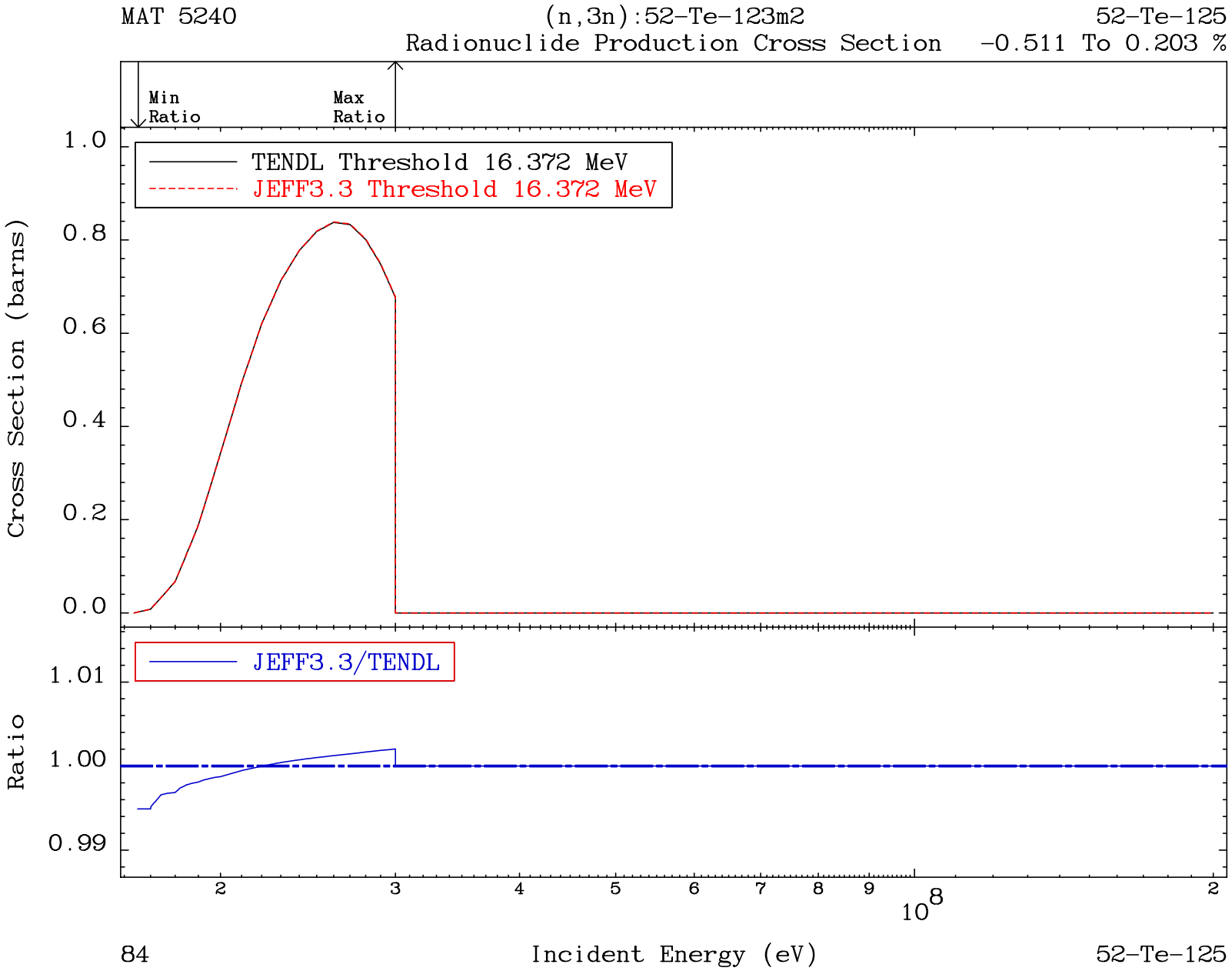

MAT 5240
Inelastic:52-Te-125g
52-Te-125
Radionuclide Production Cross Section
-0.149 To 0.100 %
Min Ratio
Max Ratio
TENDL Threshold 35.779 keV
JEFF3.3 Threshold 35.779 keV
Cross Section (barns)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
79
Incident Energy (eV)
52-Te-125

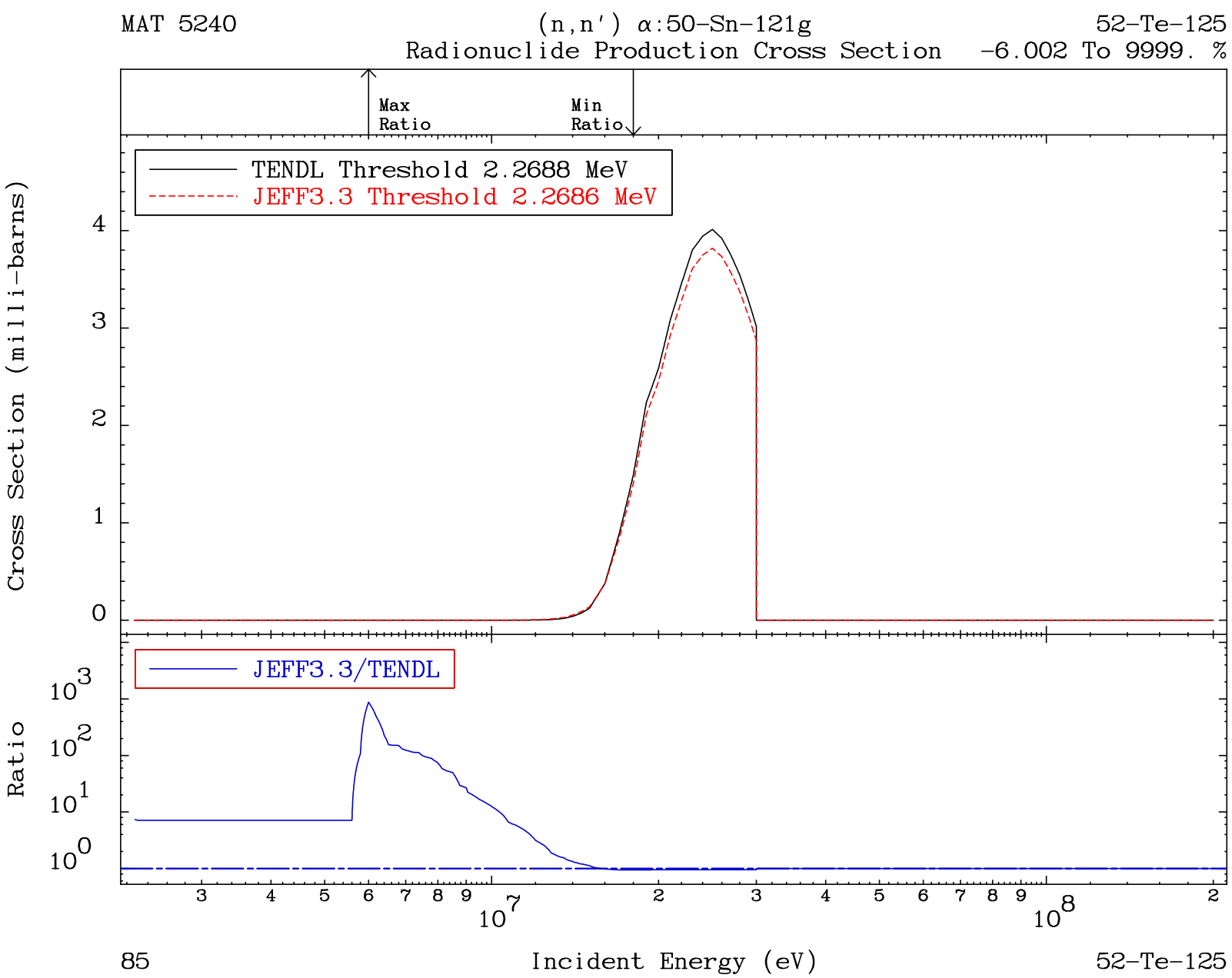

MAT 5240
Inelastic:52-Te-125m2
52-Te-125
Radionuclide Production Cross Section
-0.938 To 0.122 %
Min Ratio
Max Ratio
TENDL Threshold 145.94 keV
JEFF3.3 Threshold 145.94 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
80
Incident Energy (eV)
52-Te-125

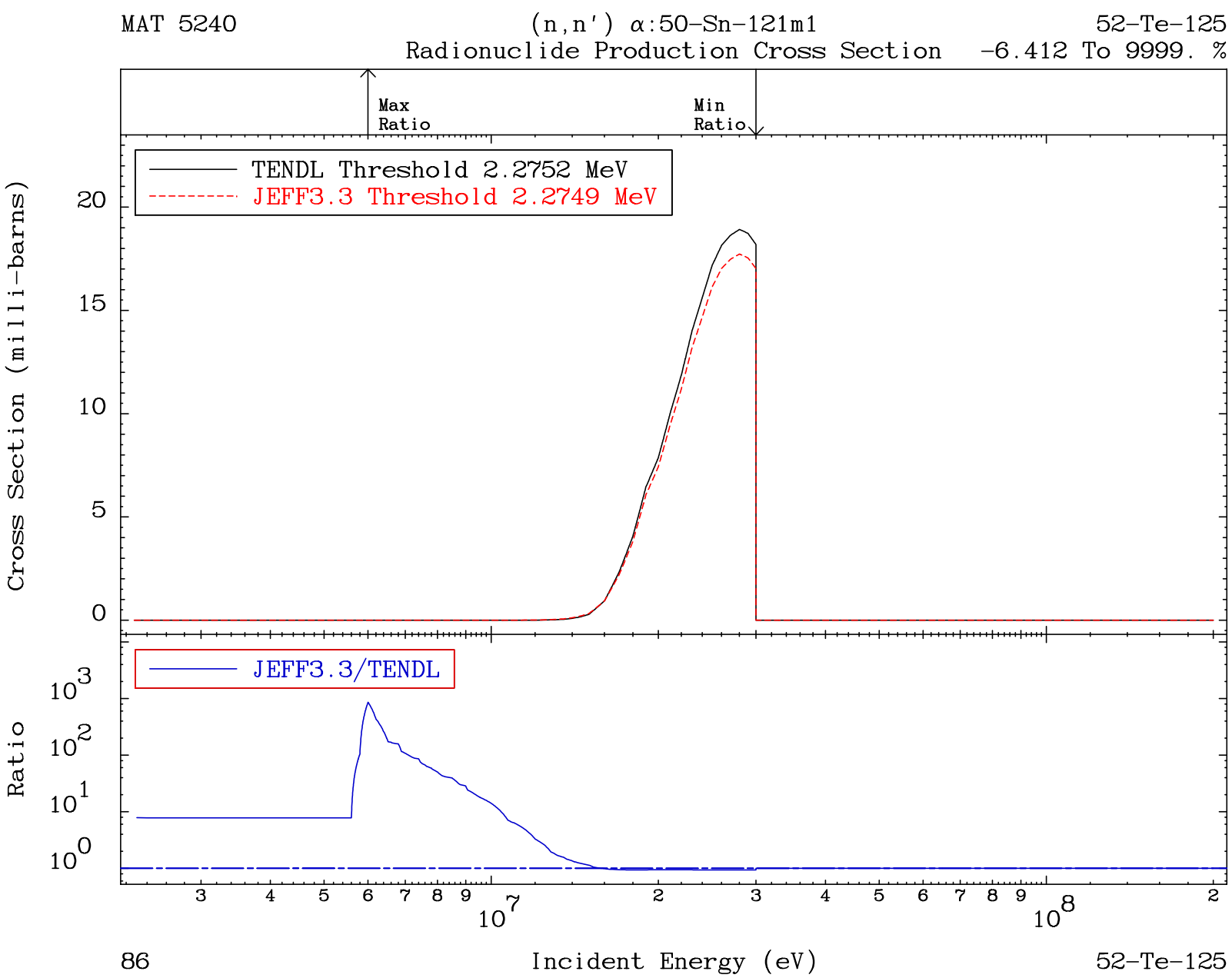

MAT 5240
(n,2n) d:51-Sb-122g
52-Te-125
Radionuclide Production Cross Section
-5.812 To 0.000 %
Max
Ratio
TENDL Threshold 22.072 MeV
JEFF3.3 Threshold 22.072 MeV
Cross Section (micro-barns)
180
160
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.00
0.98
0.96
0.94
20
40
60
80
100
120
140
160
180
200
81
Incident Energy (MeV)
52-Te-125

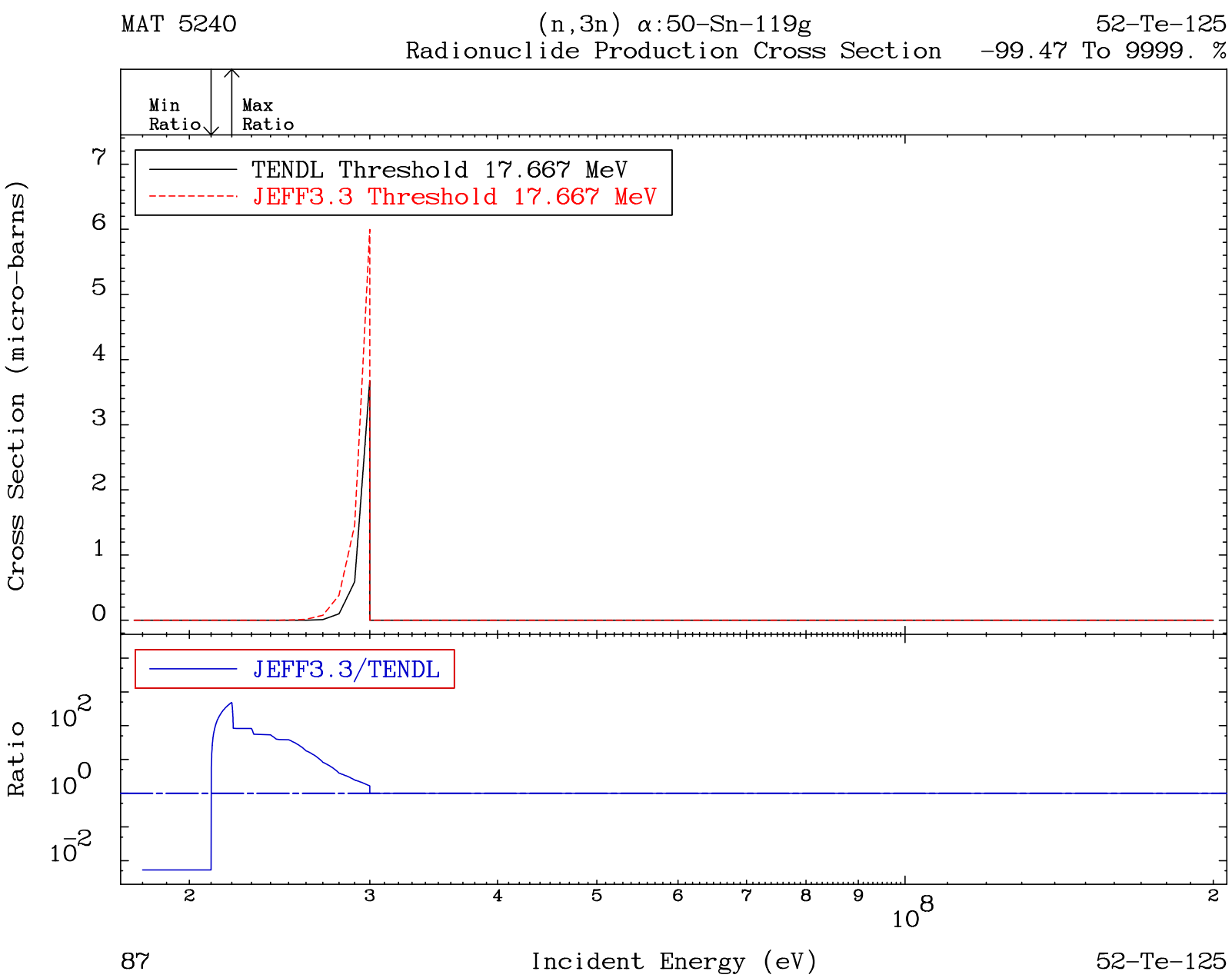

MAT 5240
(n,2n) d:51-Sb-122m5
52-Te-125
Radionuclide Production Cross Section
-0.661 To 0.001 %
Max
Ratio
TENDL Threshold 22.236 MeV
JEFF3.3 Threshold 22.236 MeV
Cross Section (micro-barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
82
Incident Energy (MeV)
52-Te-125

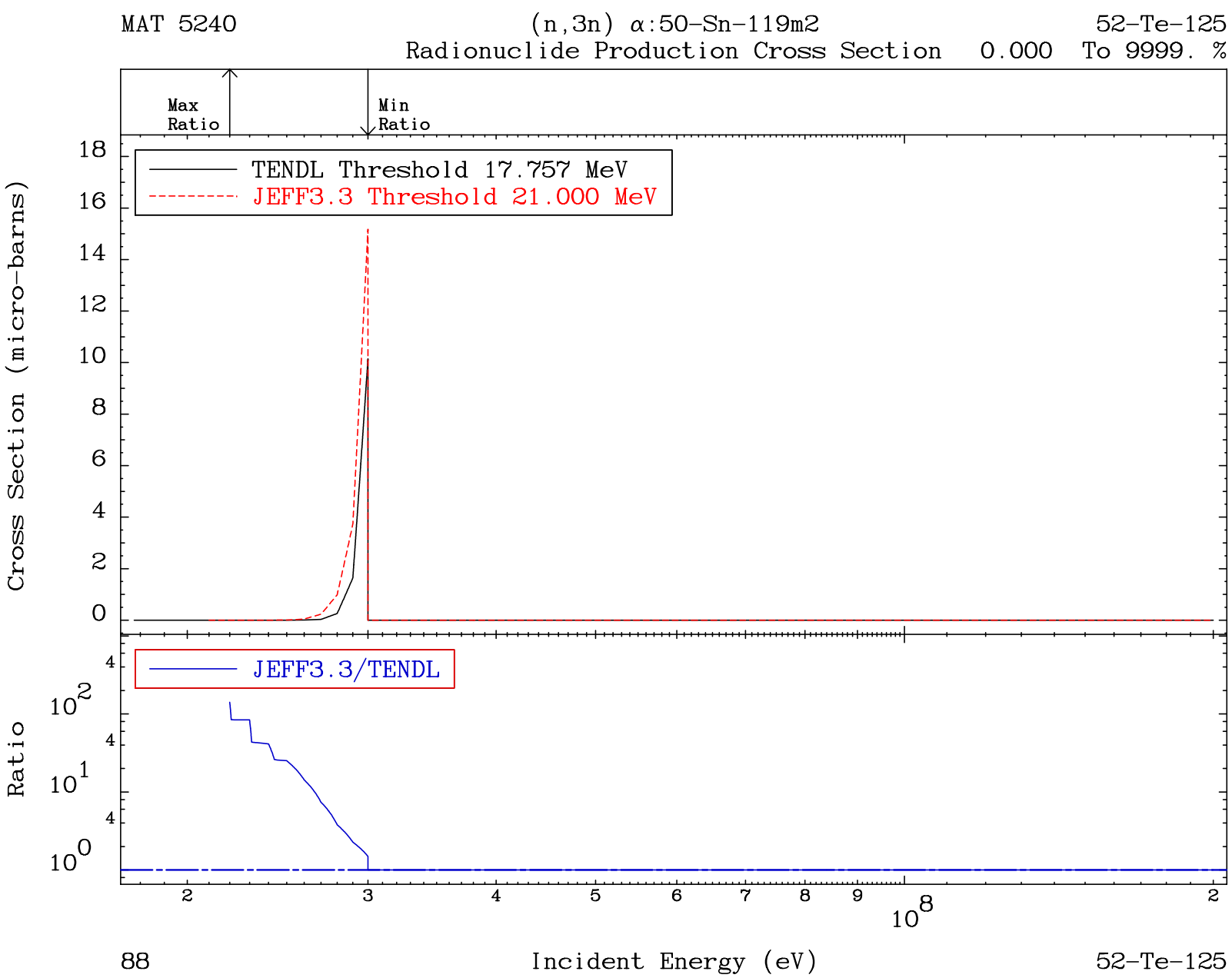

MAT 5240
(n,3n):52-Te-123g
52-Te-125
Radionuclide Production Cross Section
-0.317 To 0.185 %
Min Ratio
Max Ratio
TENDL Threshold 16.123 MeV
JEFF3.3 Threshold 16.123 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
52-Te-125

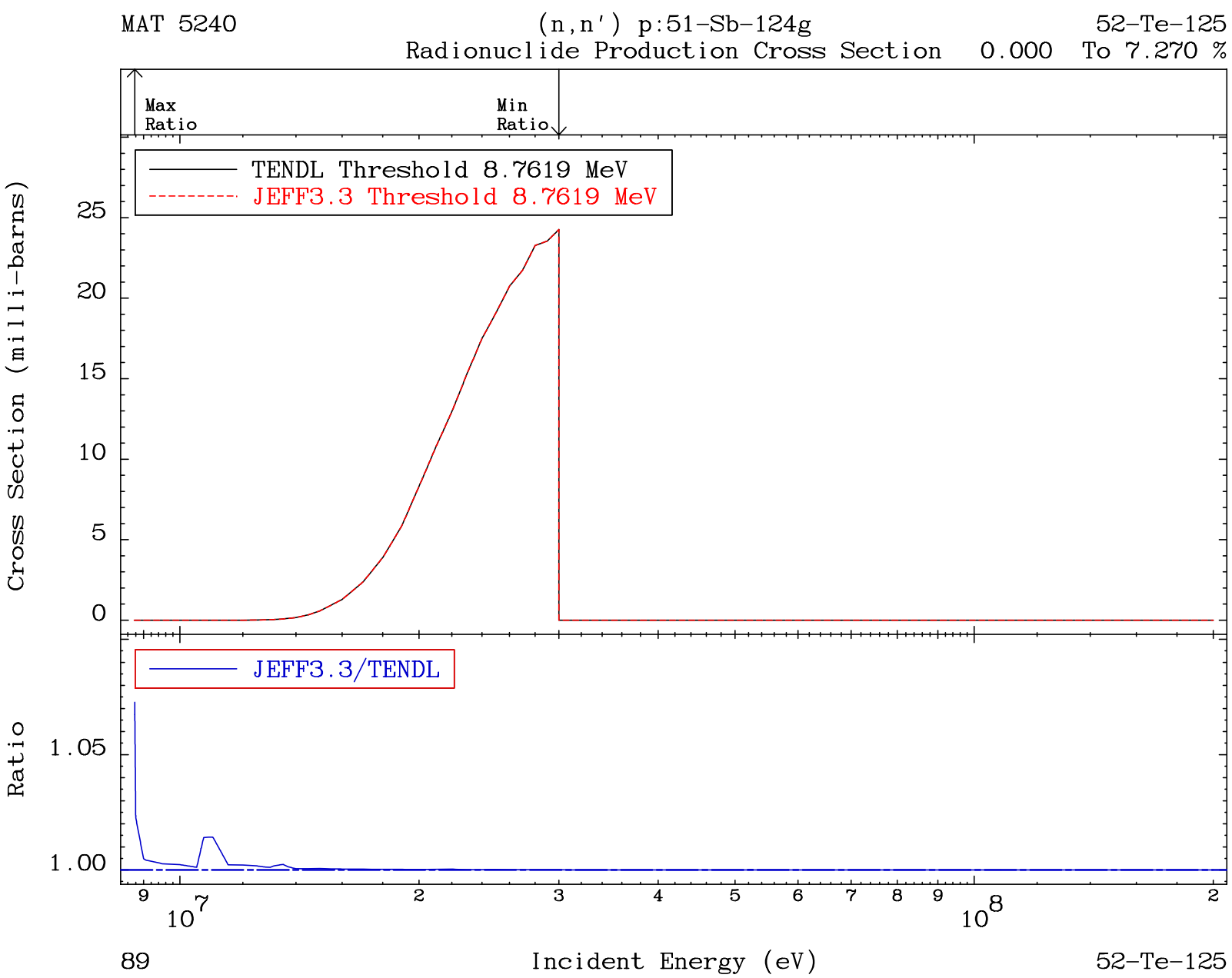

MAT 5240
(n,3n):52-Te-123m2
52-Te-125
Radionuclide Production Cross Section
-0.511 To 0.203 %
Min Ratio
Max Ratio
TENDL Threshold 16.372 MeV
JEFF3.3 Threshold 16.372 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
52-Te-125

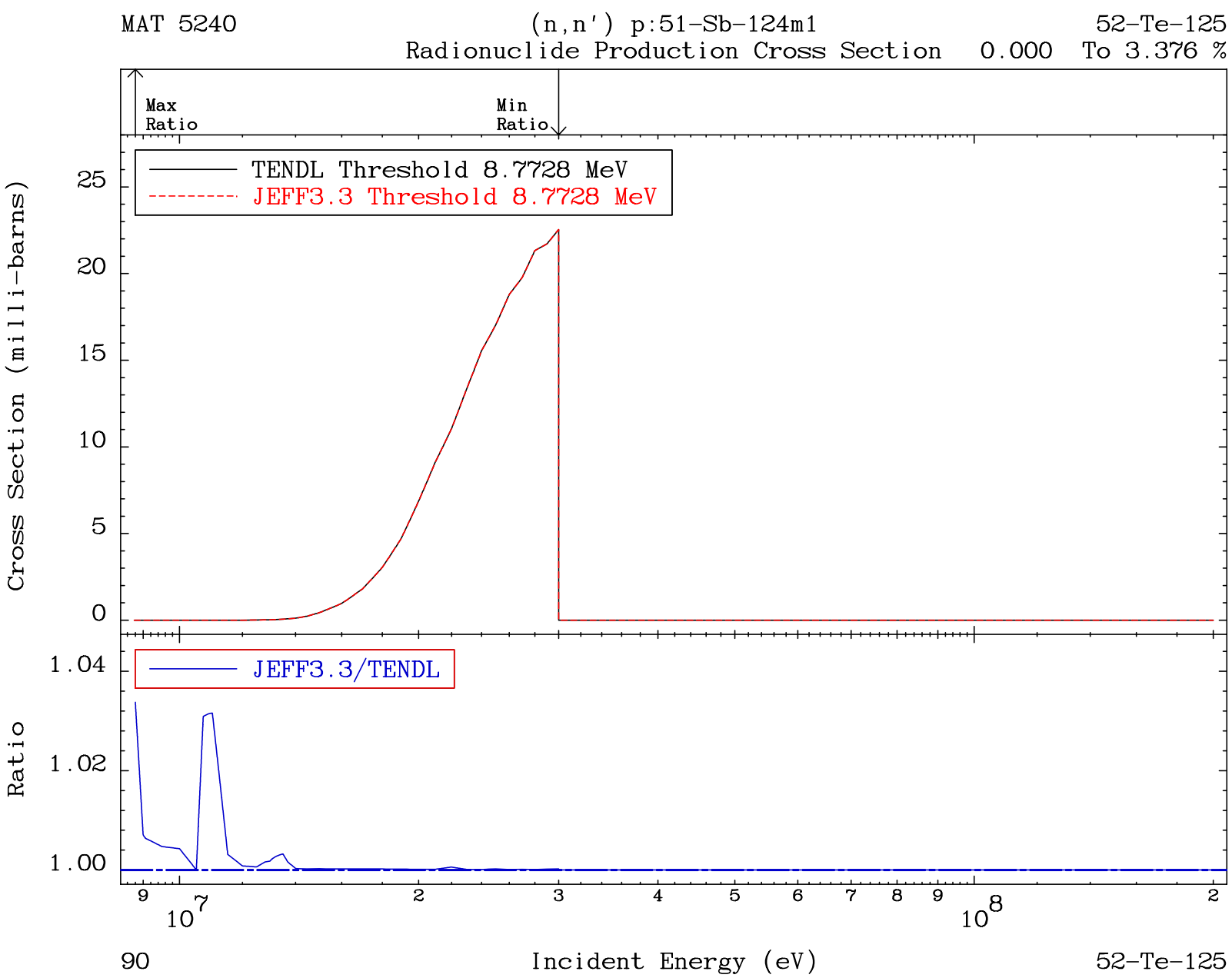

MAT 5240
(n,n') α:50-Sn-121g
52-Te-125
Radionuclide Production Cross Section -6.002 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.2688 MeV
JEFF3.3 Threshold 2.2686 MeV
Cross Section (milli-barns)
0
1
2
3
4
JEFF3.3/TENDL
Ratio
10^0
10^1
10^2
10^3
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
85
Incident Energy (eV)
52-Te-125

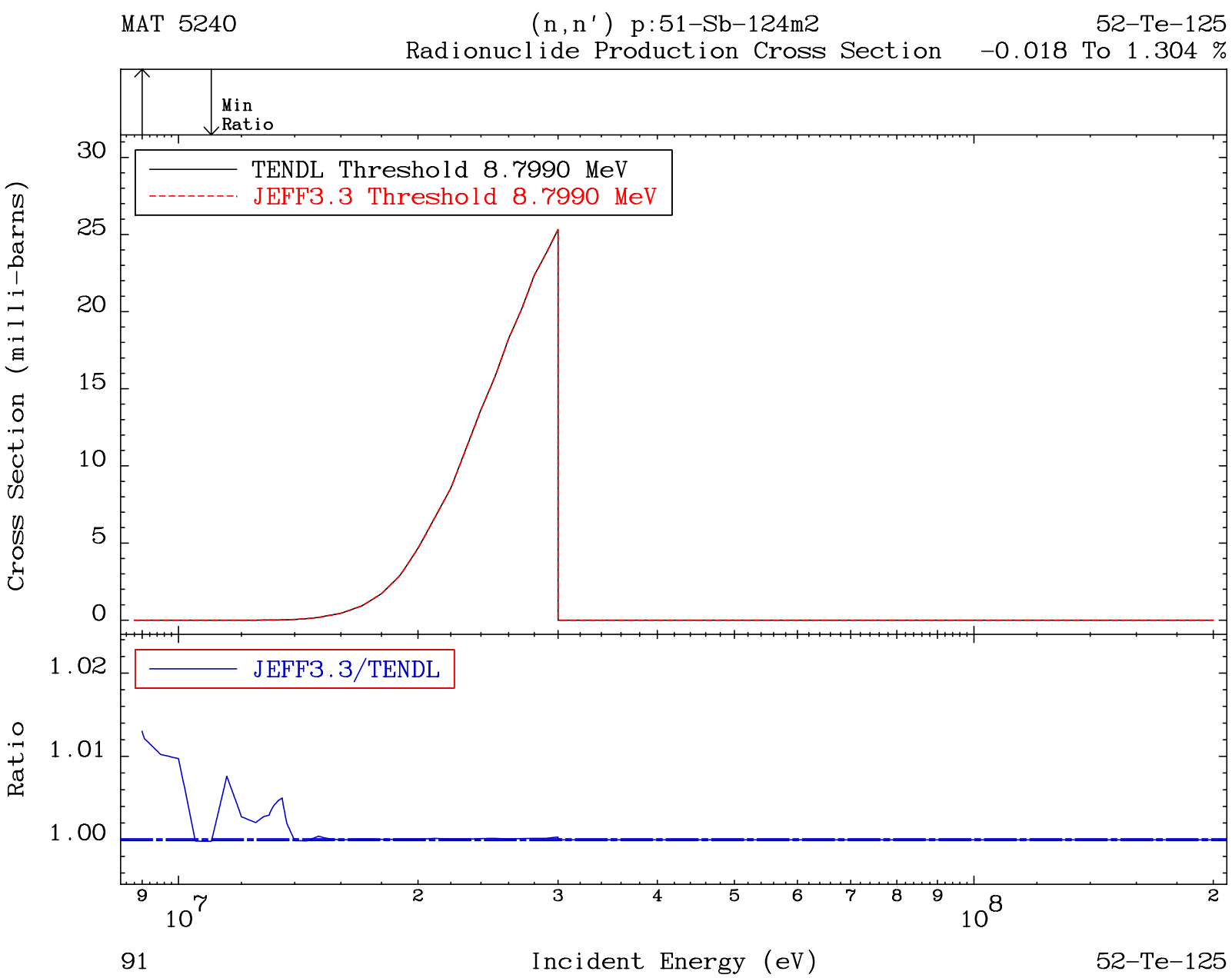

MAT 5240
(n,n') α:50-Sn-121m1
52-Te-125
Radionuclide Production Cross Section -6.412 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.2752 MeV
JEFF3.3 Threshold 2.2749 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
86
Incident Energy (eV)
52-Te-125

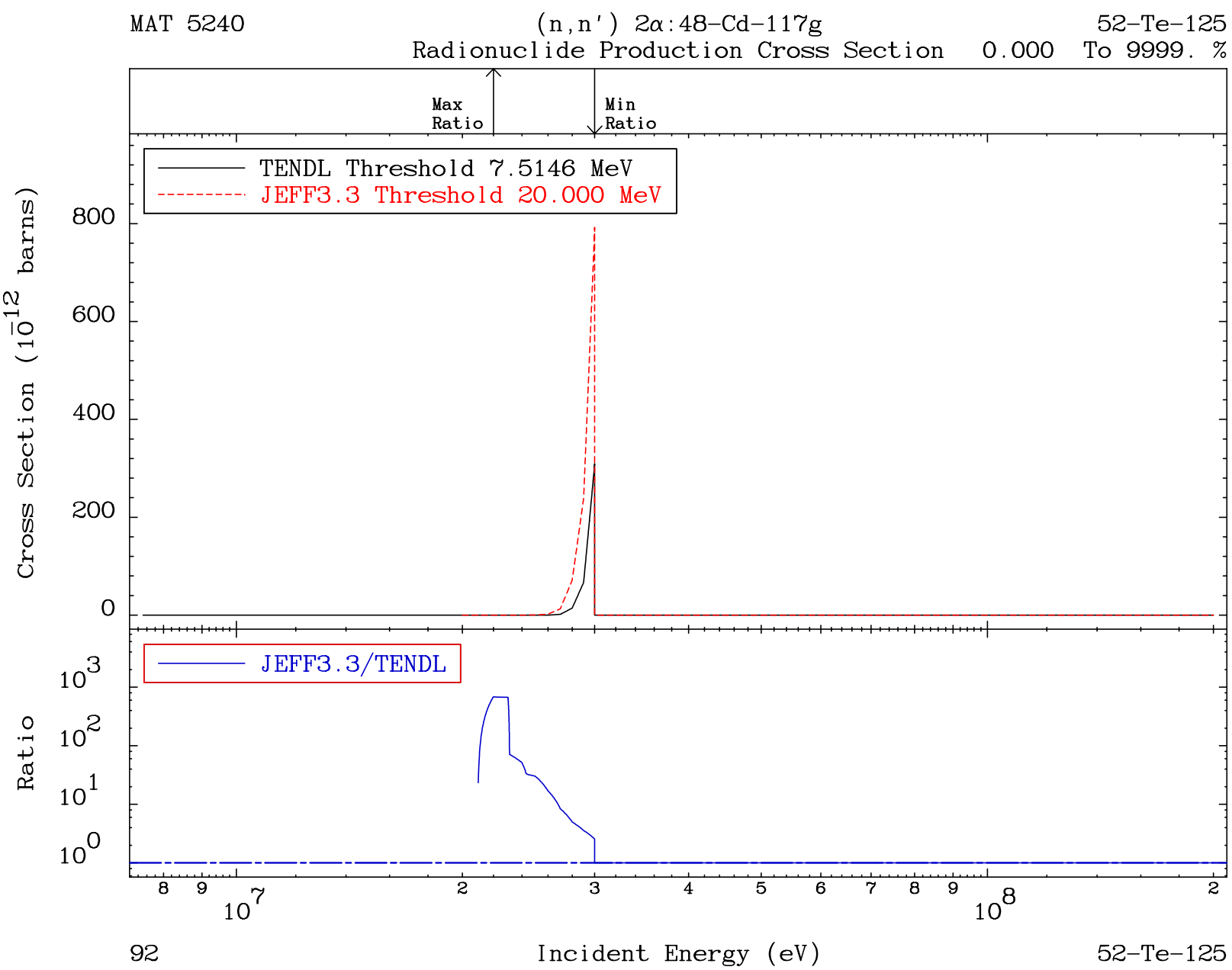

MAT 5240
(n,3n) α:50-Sn-119g
52-Te-125
Radionuclide Production Cross Section
-99.47 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 17.667 MeV
JEFF3.3 Threshold 17.667 MeV
Cross Section (micro-barns)
0
1
2
3
4
5
6
7
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
87
Incident Energy (eV)
52-Te-125

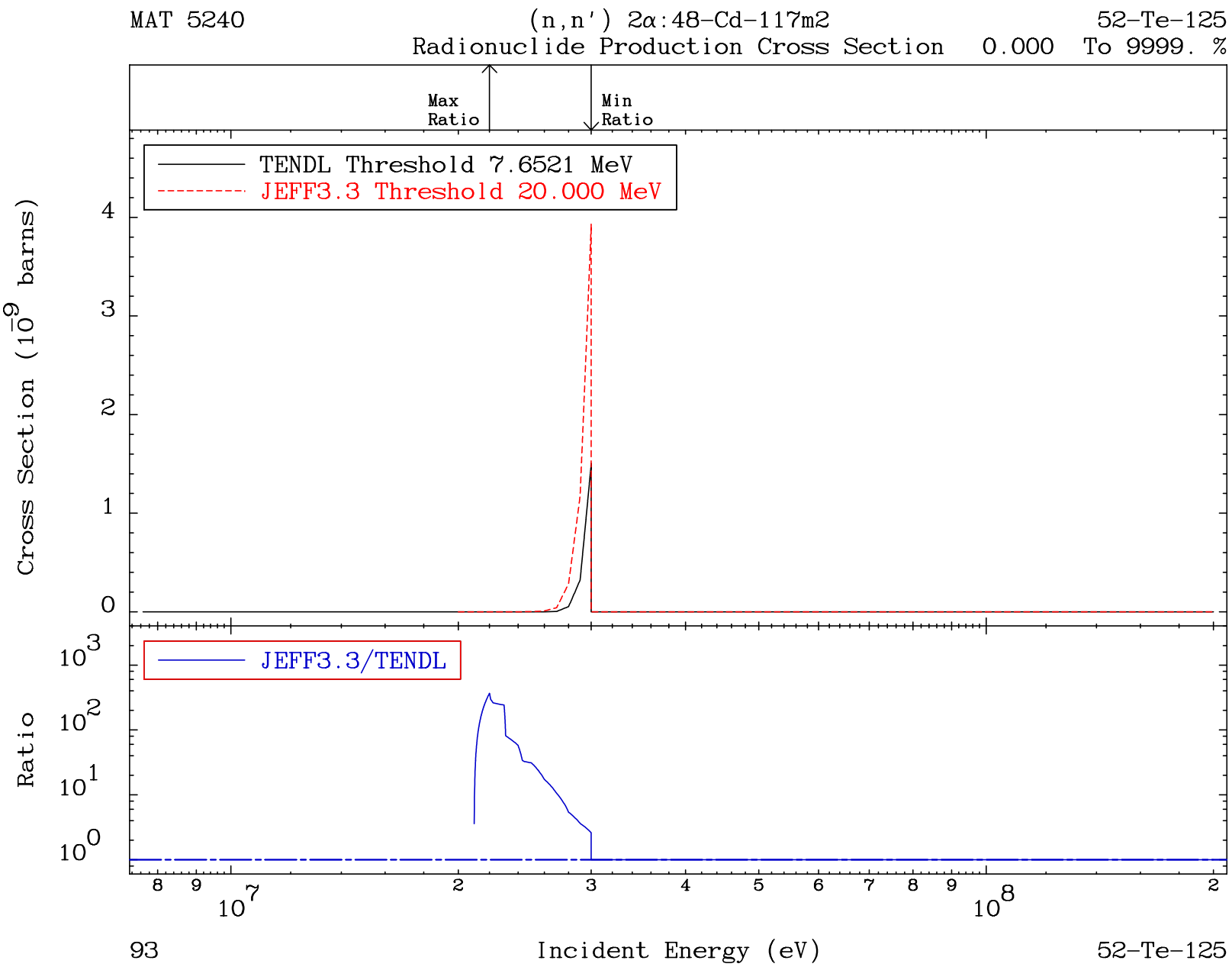

MAT 5240
(n,3n) α:50-Sn-119m2
52-Te-125
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 17.757 MeV
JEFF3.3 Threshold 21.000 MeV
Cross Section (micro-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
88
52-Te-125

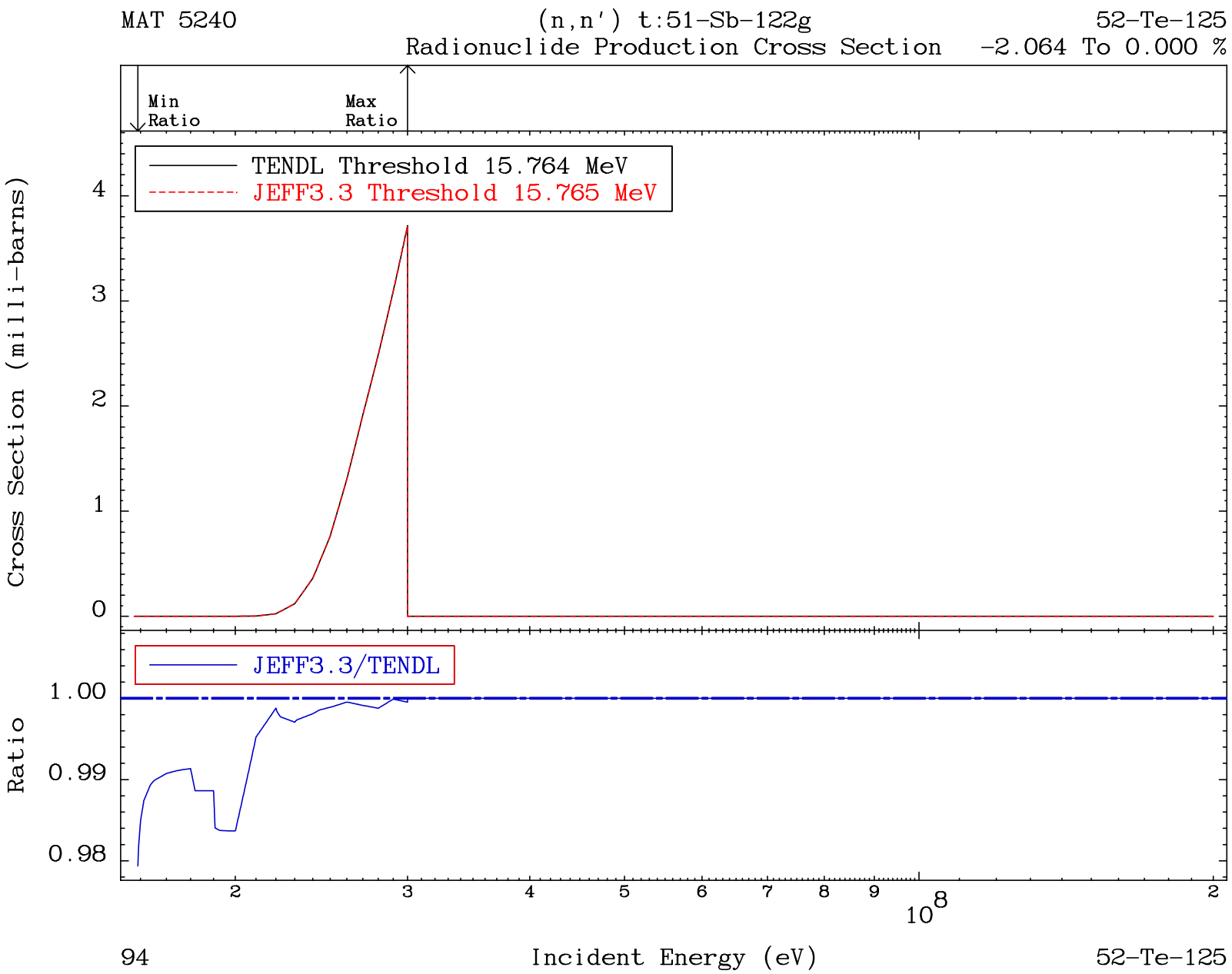

MAT 5240
(n,n') p:51-Sb-124g
52-Te-125
Radionuclide Production Cross Section 0.000 To 7.270 %
Max Ratio
Min Ratio
TENDL Threshold 8.7619 MeV
JEFF3.3 Threshold 8.7619 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.05
1.00
9
10^7
2
3
4
5
6
7
8
9
10^8
2
89
Incident Energy (eV)
52-Te-125

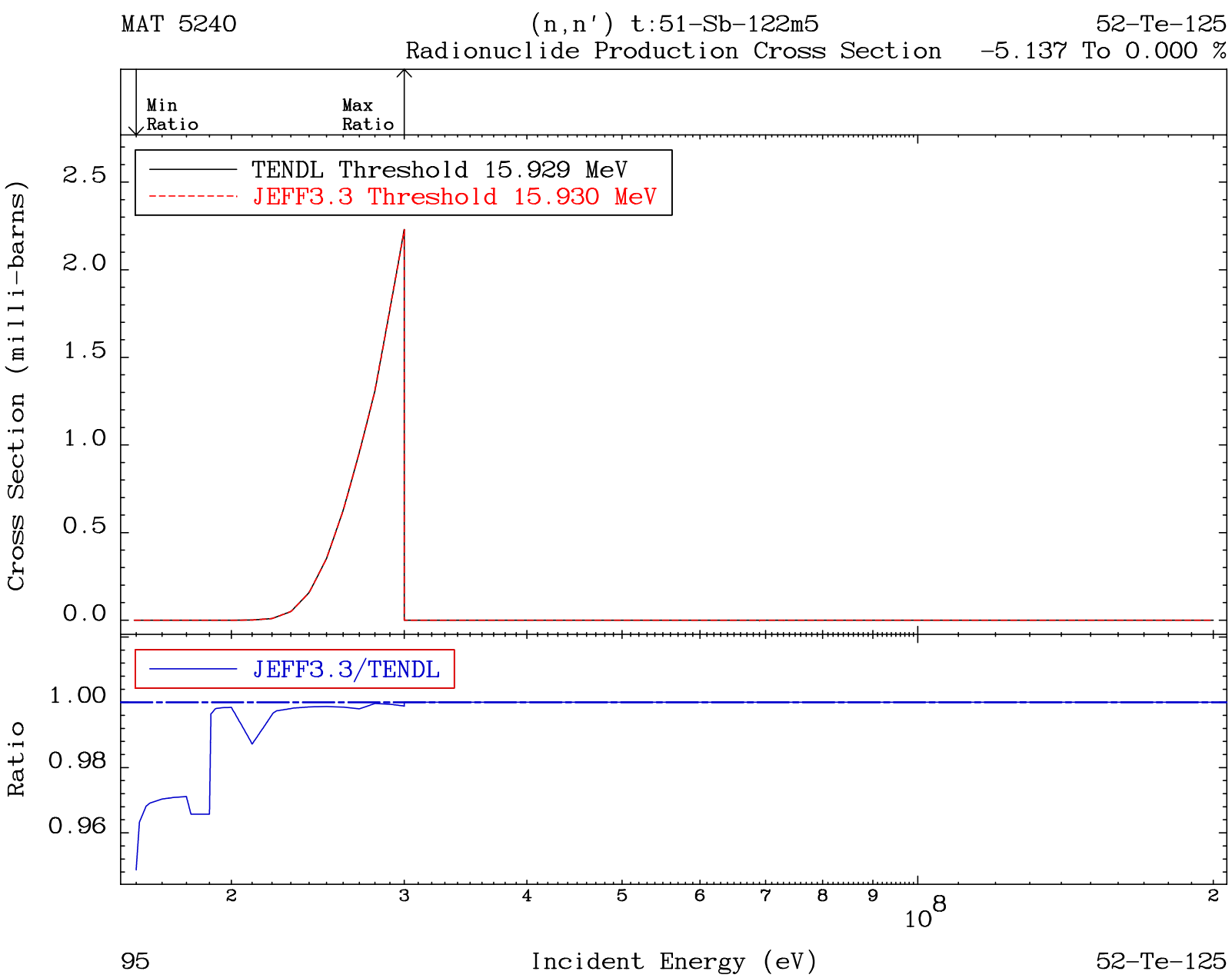

MAT 5240
(n,n') p:51-Sb-124m1
52-Te-125
Radionuclide Production Cross Section 0.000 To 3.376 %
Max Ratio
Min Ratio
TENDL Threshold 8.7728 MeV
JEFF3.3 Threshold 8.7728 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.04
1.02
1.00
9
10^7
2
3
4
5
6
7
8
9
10^8
2
90
Incident Energy (eV)
52-Te-125

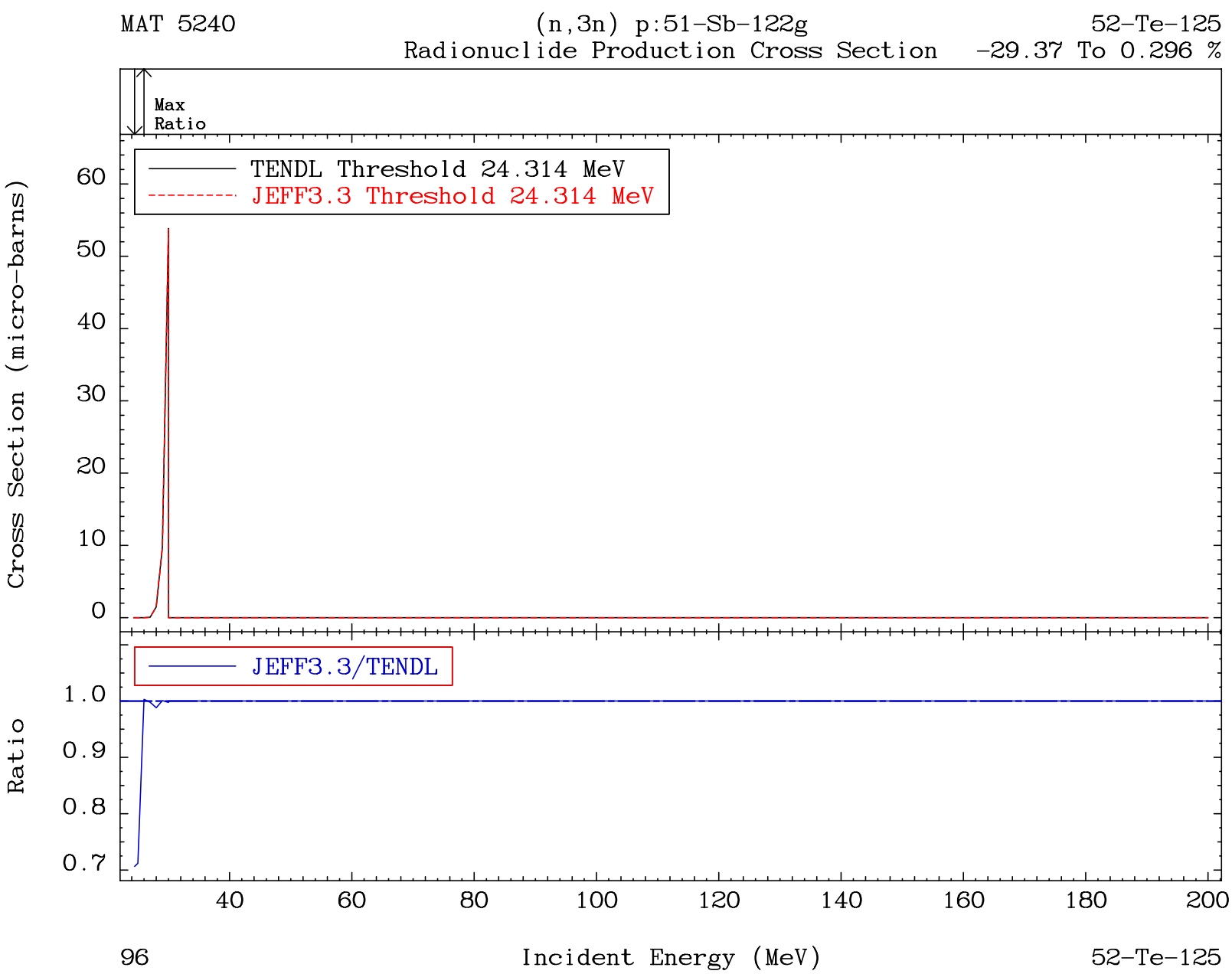

MAT 5240
(n,n') p:51-Sb-124m2
52-Te-125
Radionuclide Production Cross Section
-0.018 To 1.304 %
Min
Ratio
TENDL Threshold 8.7990 MeV
JEFF3.3 Threshold 8.7990 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
9
10^7
2
3
4
5
6
7
8
9
10^8
2
91
Incident Energy (eV)
52-Te-125

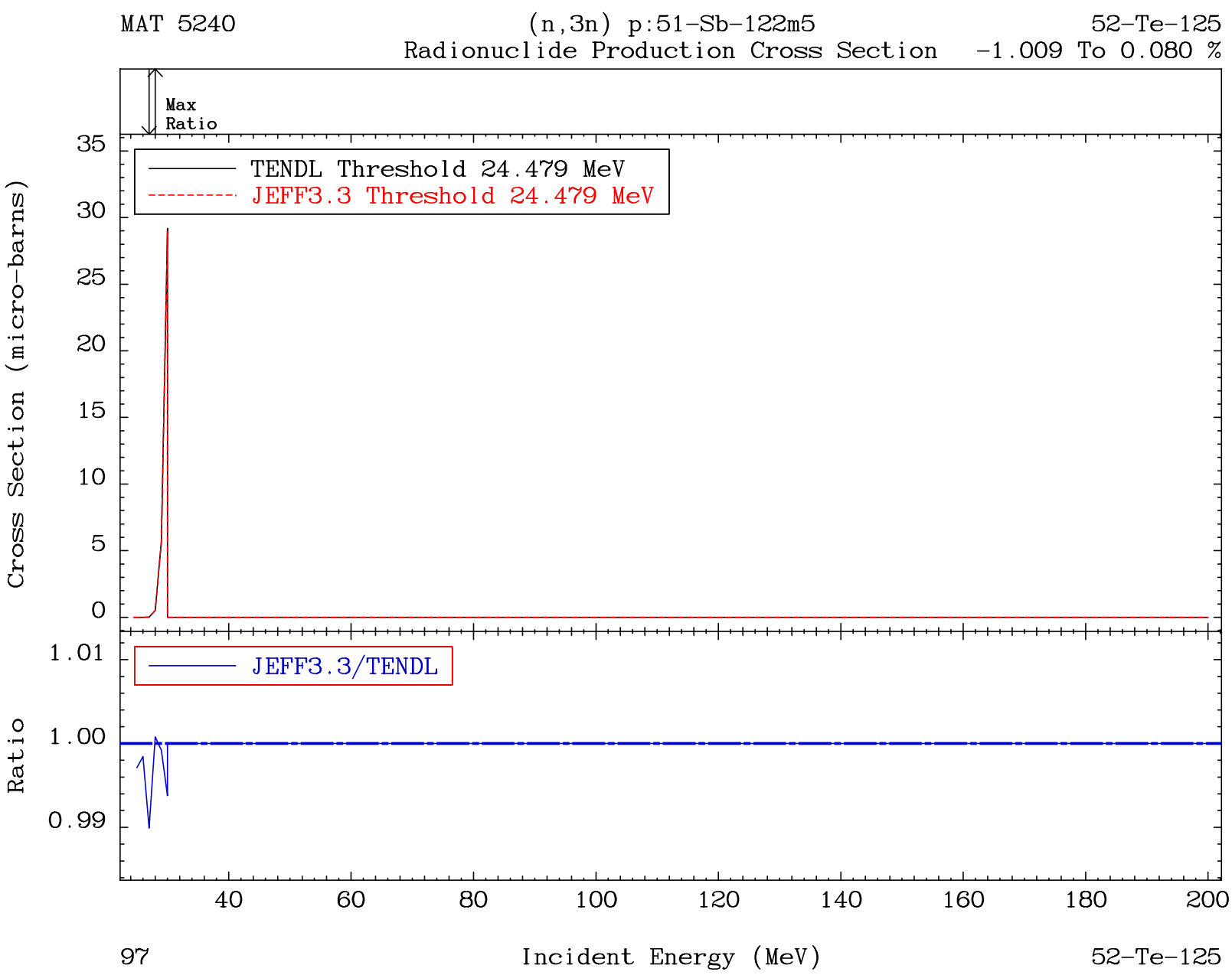

MAT 5240
(n,n') 2α:48-Cd-117g
52-Te-125
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.5146 MeV
JEFF3.3 Threshold 20.000 MeV
Cross Section (10^{-12} barns)
800
600
400
200
0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
92
Incident Energy (eV)
52-Te-125

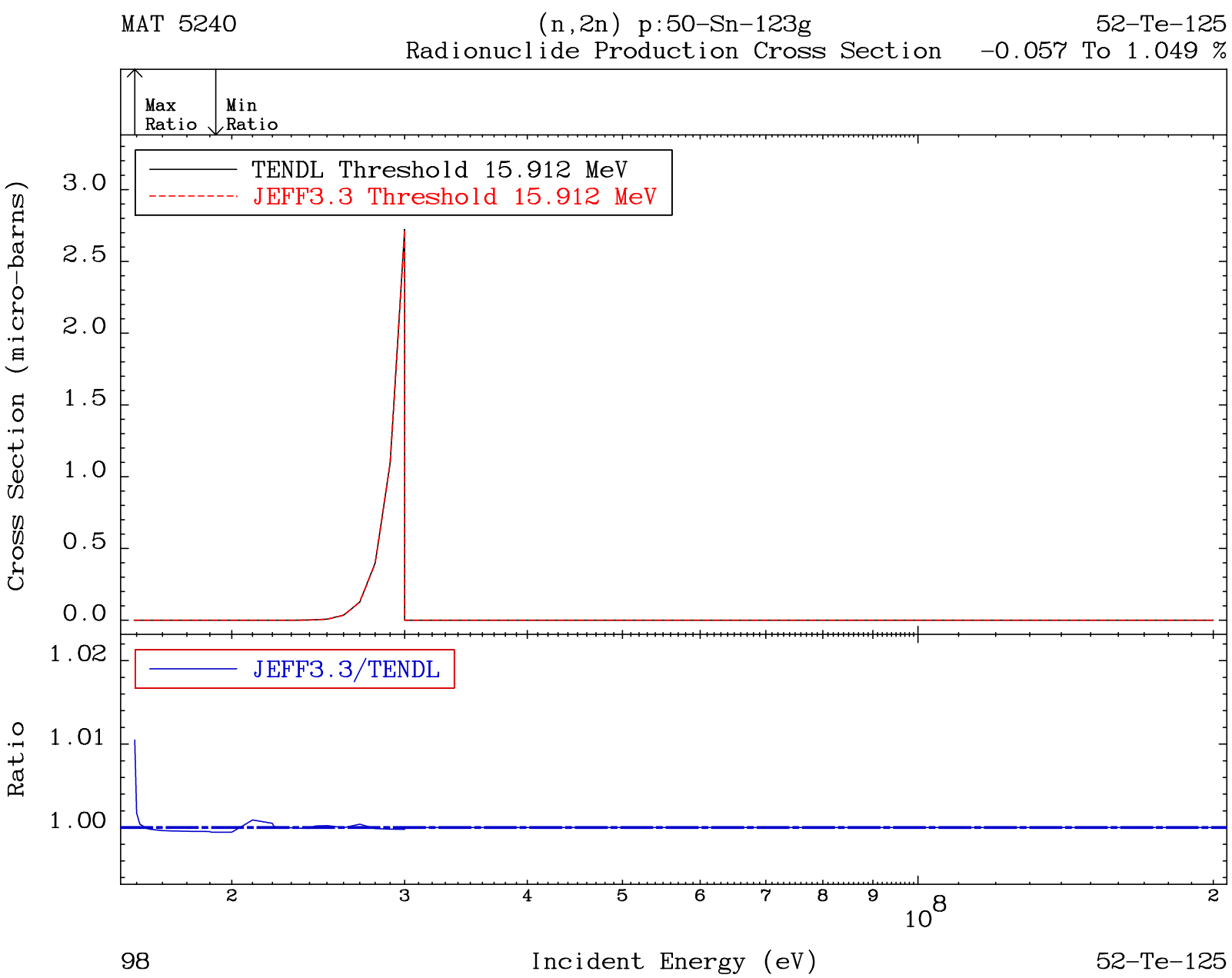

MAT 5240
(n,n') 2α:48-Cd-117m2
52-Te-125
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.6521 MeV
JEFF3.3 Threshold 20.000 MeV
Cross Section (10^{-9} barns)
0
1
2
3
4
JEFF3.3/TENDL
Ratio
10^0
10^1
10^2
10^3
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
93
Incident Energy (eV)
52-Te-125

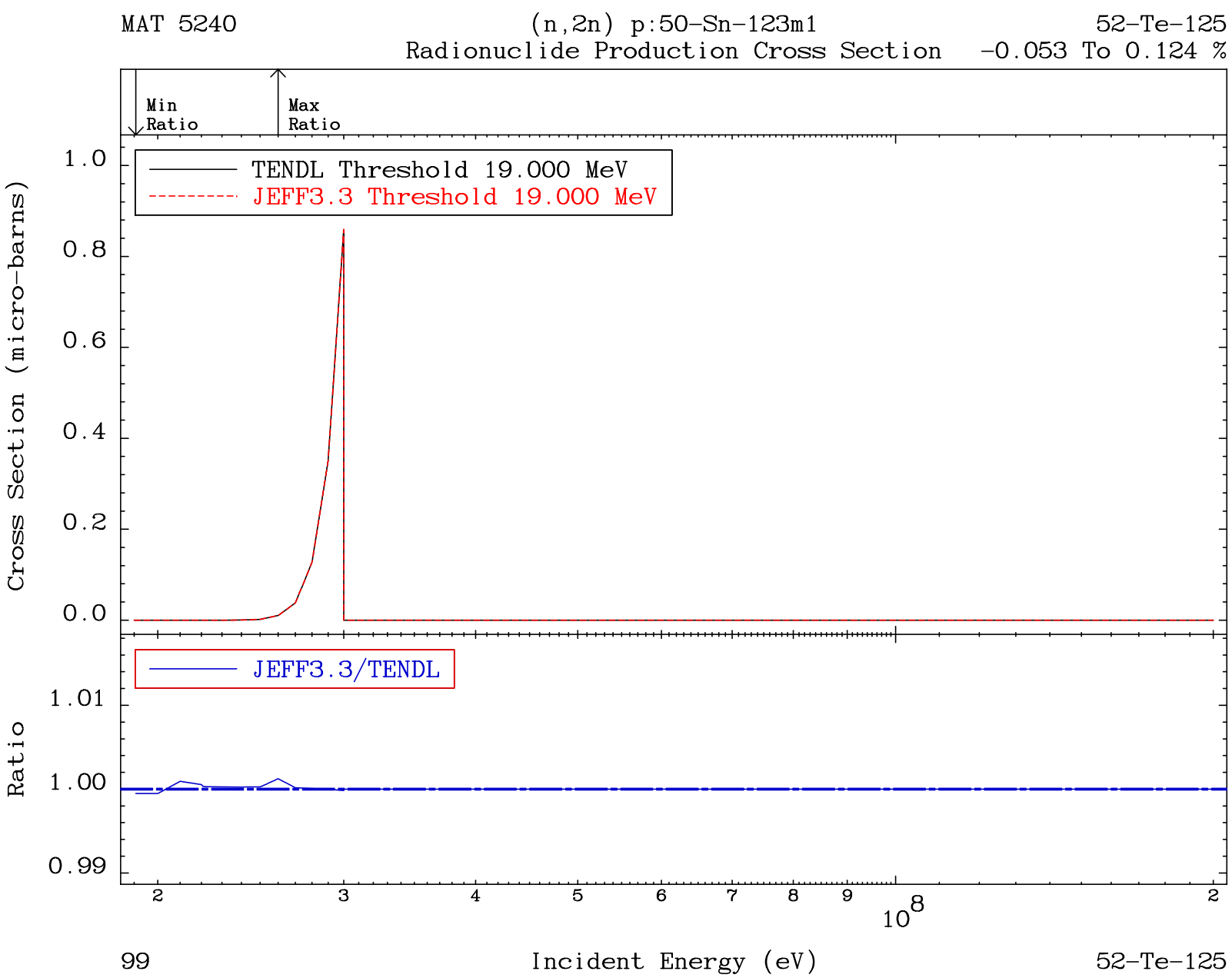

MAT 5240
(n,n') t:51-Sb-122g
52-Te-125
Radionuclide Production Cross Section
-2.064 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 15.764 MeV
JEFF3.3 Threshold 15.765 MeV
Cross Section (milli-barns)
0
1
2
3
4
JEFF3.3/TENDL
Ratio
0.98
0.99
1.00
2
3
4
5
6
7
8
9
10^8
2
94
Incident Energy (eV)
52-Te-125

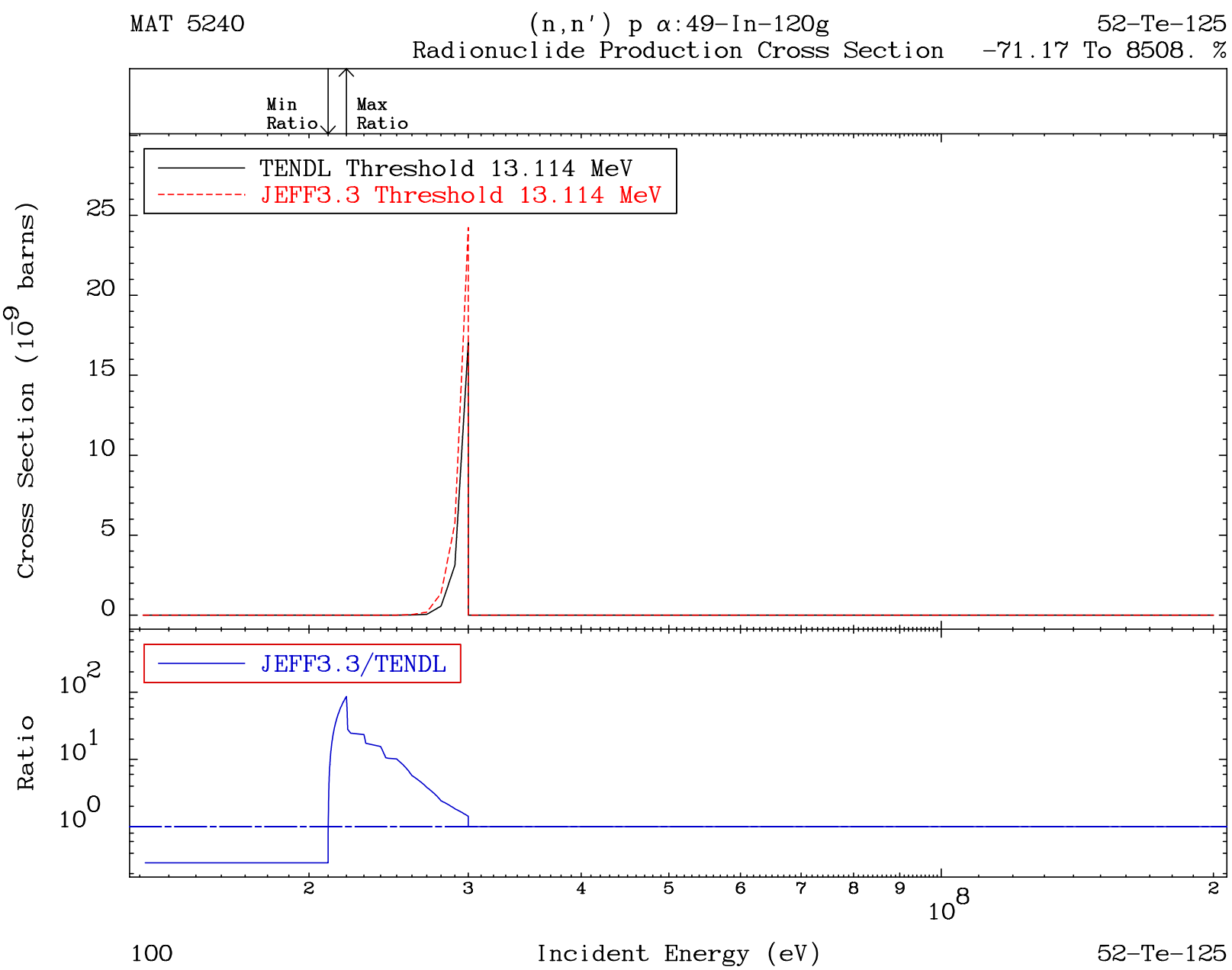

MAT 5240
(n,n') t:51-Sb-122m5
52-Te-125
Radionuclide Production Cross Section
-5.137 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 15.929 MeV
JEFF3.3 Threshold 15.930 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.00
0.98
0.96
2
3
4
5
6
7
8
9
10^8
2
95
Incident Energy (eV)
52-Te-125

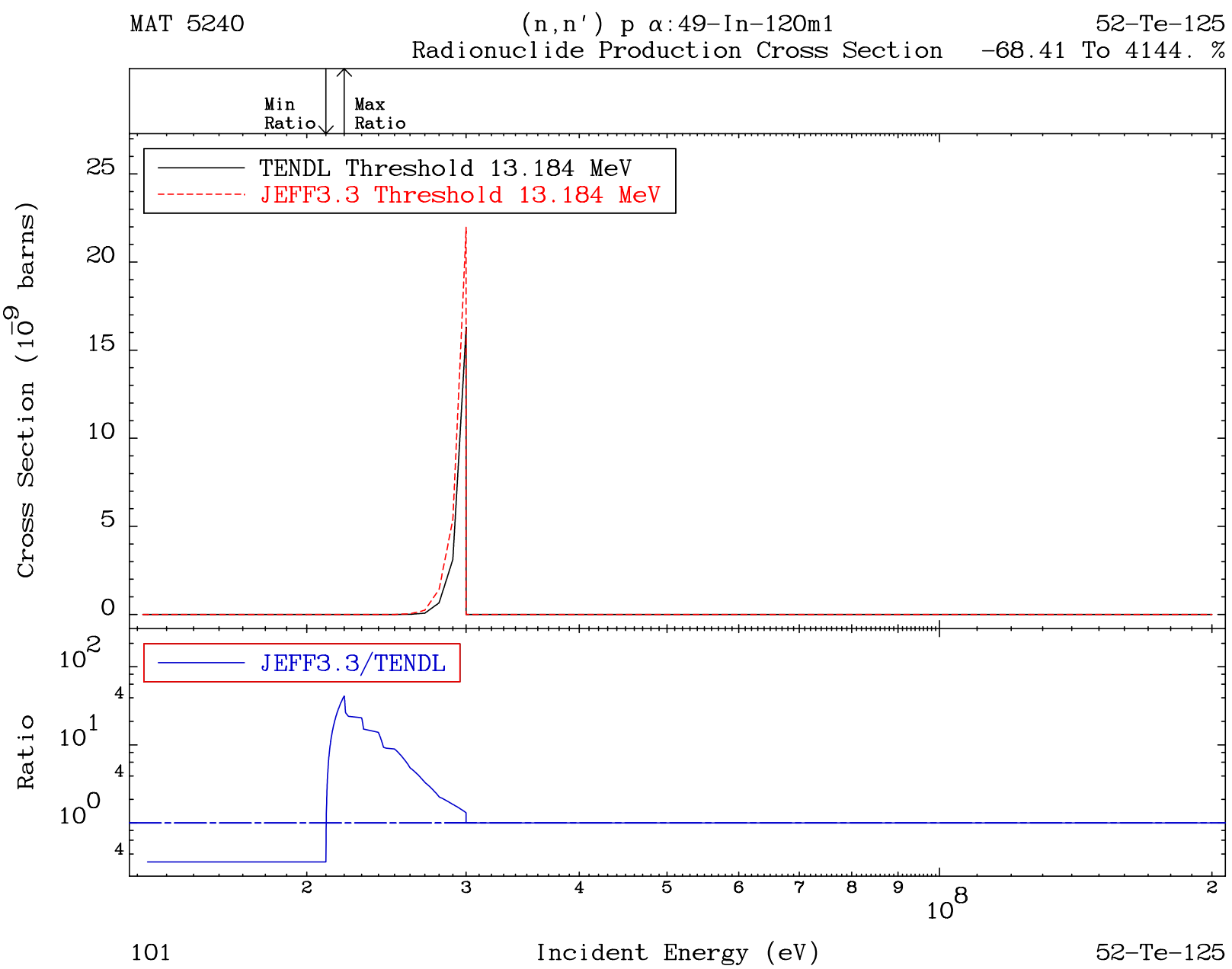

MAT 5240
(n,3n) p:51-Sb-122g
52-Te-125
Radionuclide Production Cross Section
-29.37 To 0.296 %
Max
Ratio
TENDL Threshold 24.314 MeV
JEFF3.3 Threshold 24.314 MeV
Cross Section (micro-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.0
0.9
0.8
0.7
40
60
80
100
120
140
160
180
200
96
Incident Energy (MeV)
52-Te-125

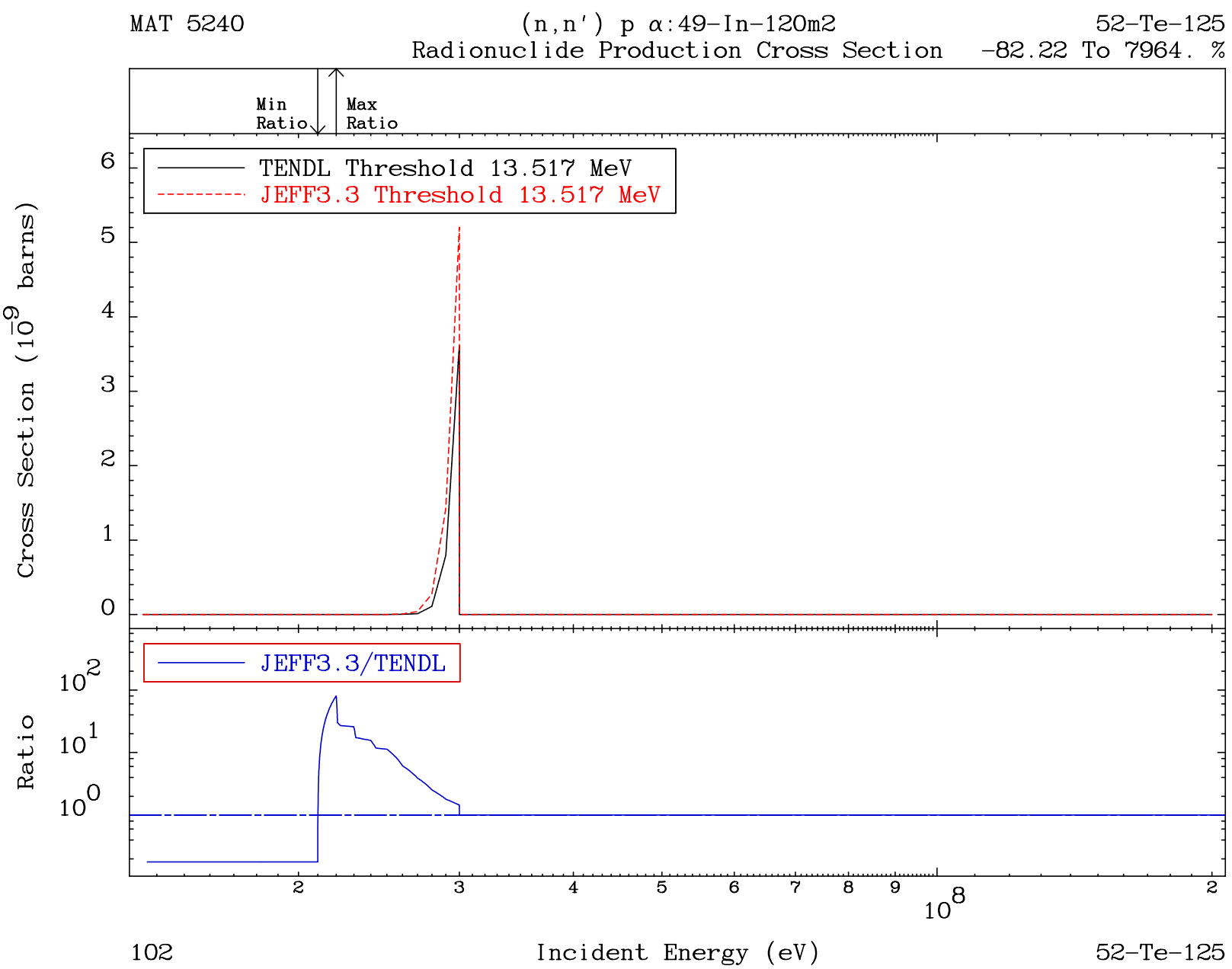

MAT 5240
(n,3n) p:51-Sb-122m5
52-Te-125
Radionuclide Production Cross Section
-1.009 To 0.080 %
Max
Ratio
TENDL Threshold 24.479 MeV
JEFF3.3 Threshold 24.479 MeV
Cross Section (micro-barns)
35
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
97
Incident Energy (MeV)
52-Te-125

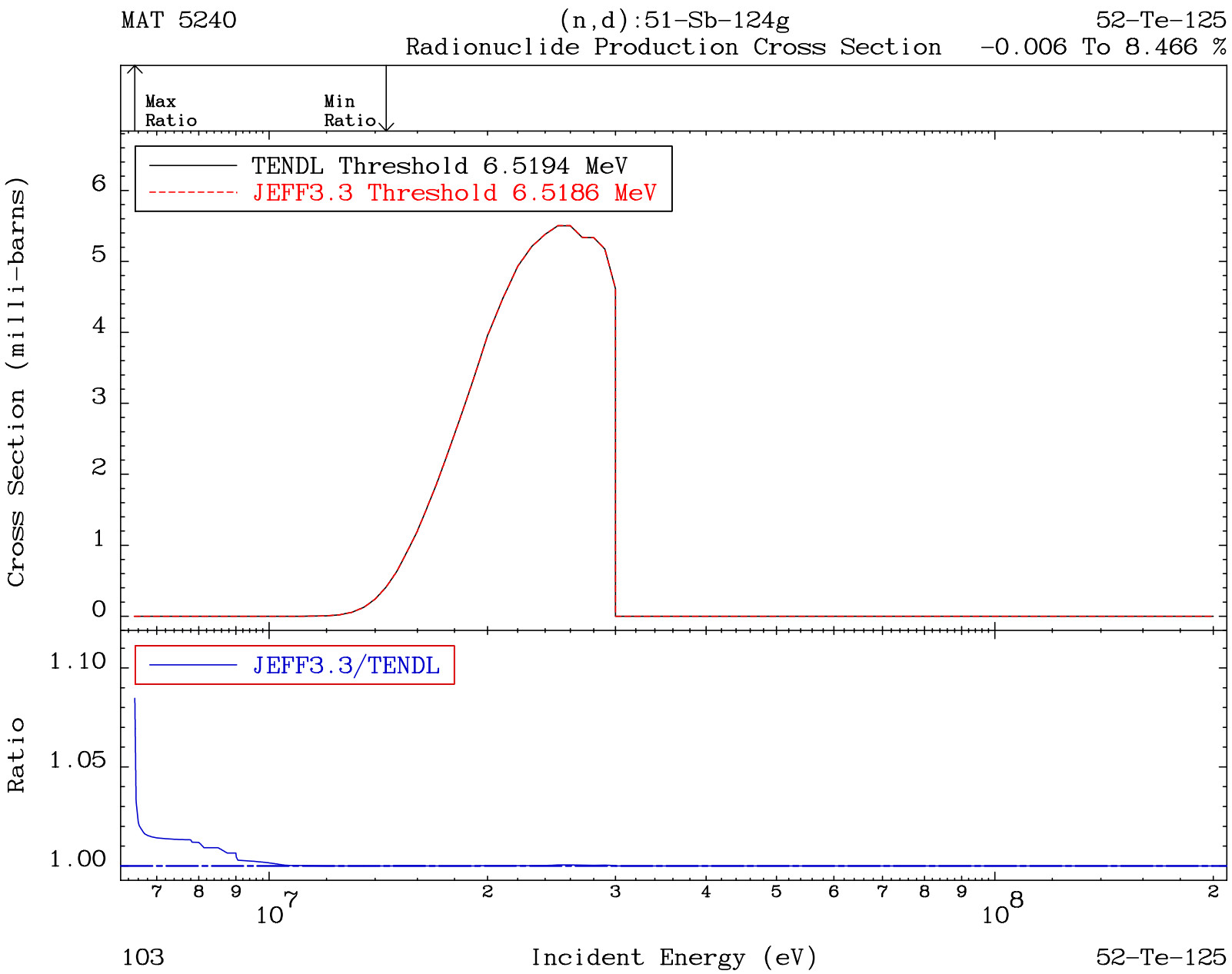

MAT 5240
(n,2n) p:50-Sn-123g
52-Te-125
Radionuclide Production Cross Section
-0.057 To 1.049 %
Max Ratio
Min Ratio
TENDL Threshold 15.912 MeV
JEFF3.3 Threshold 15.912 MeV
Cross Section (micro-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
98
Incident Energy (eV)
52-Te-125

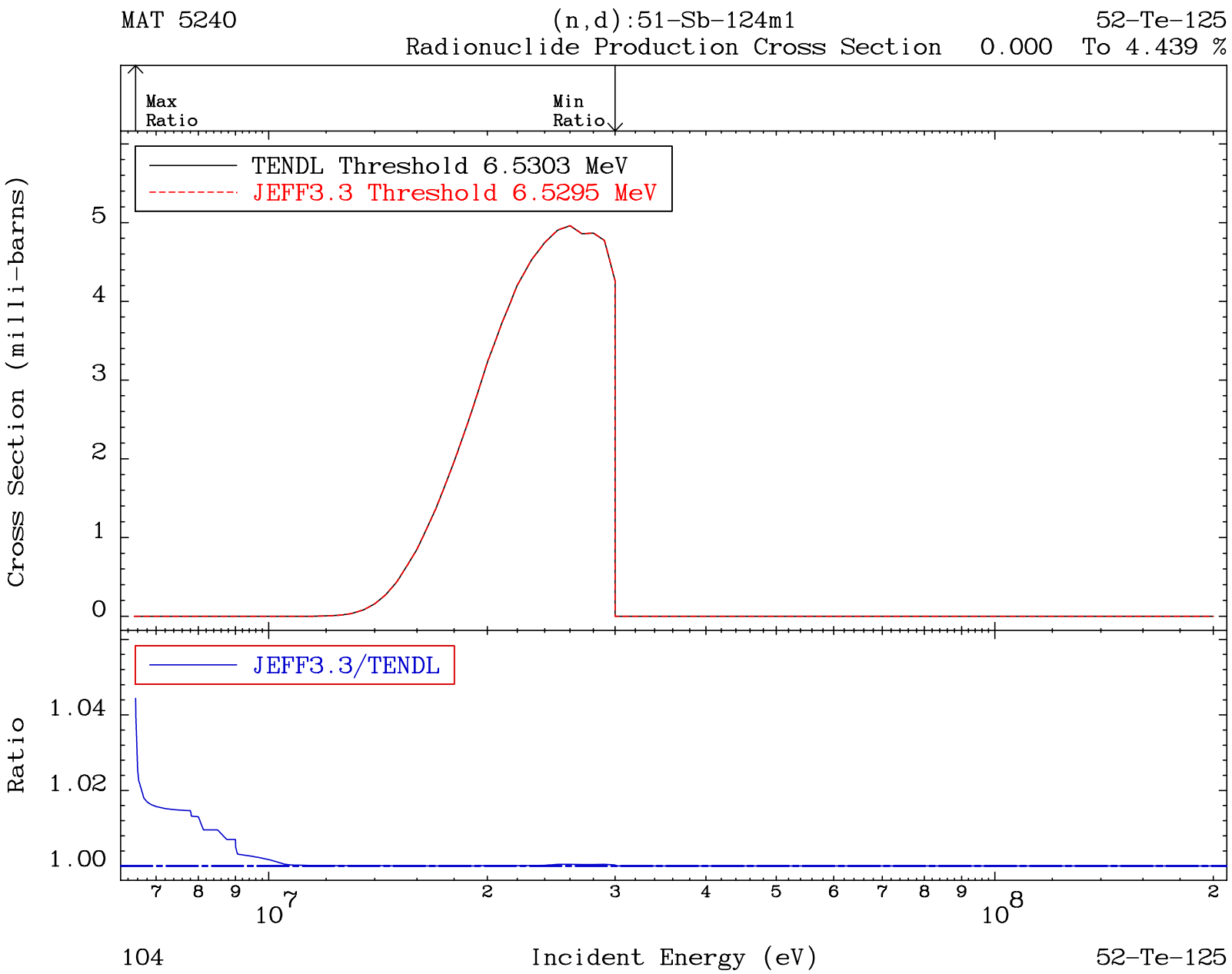

MAT 5240
(n,2n) p:50-Sn-123m1
52-Te-125
Radionuclide Production Cross Section
-0.053 To 0.124 %
Min Ratio
Max Ratio
TENDL Threshold 19.000 MeV
JEFF3.3 Threshold 19.000 MeV
Cross Section (micro-barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
99
Incident Energy (eV)
52-Te-125

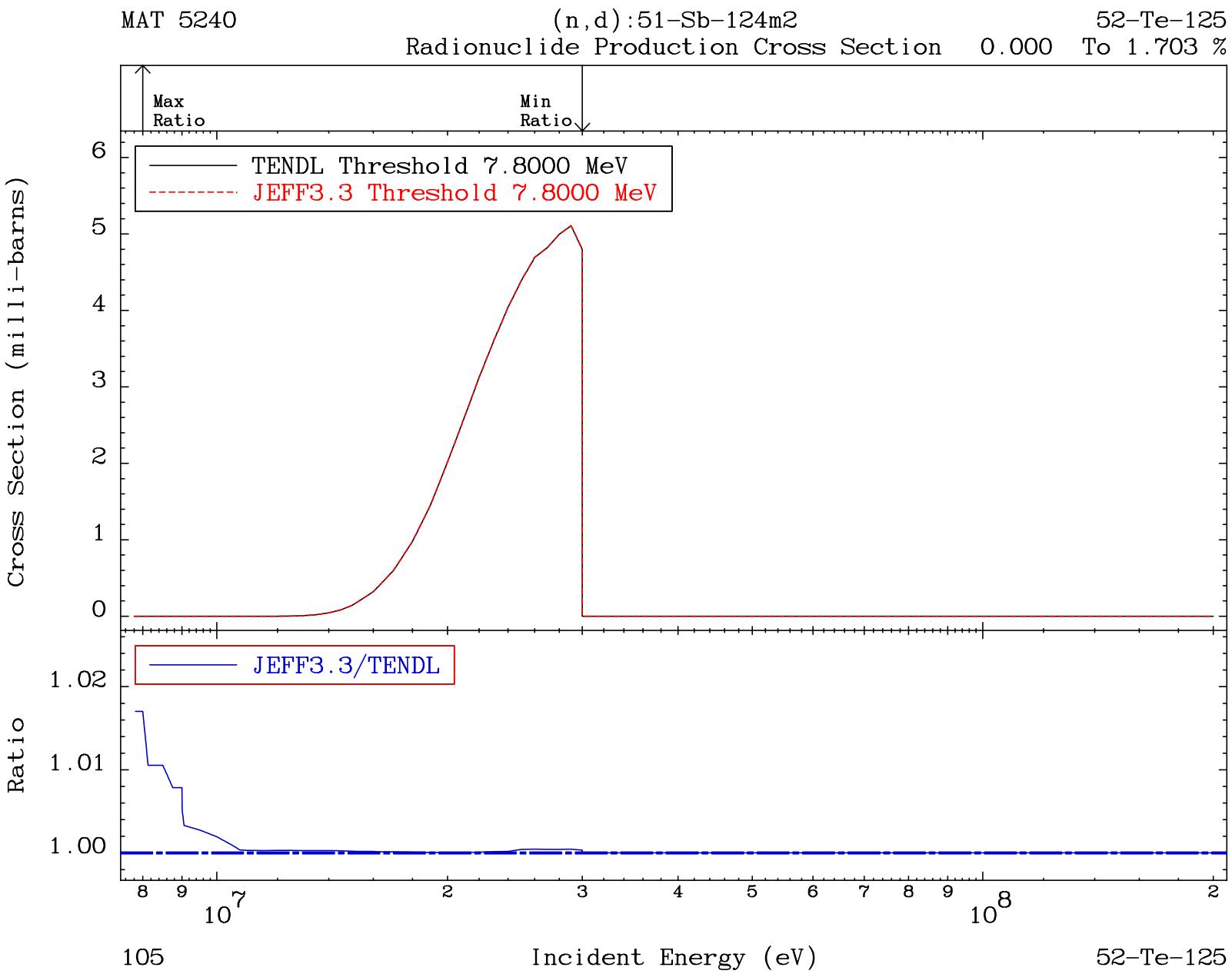

MAT 5240
(n,n') p α:49-In-120g
52-Te-125
Radionuclide Production Cross Section
-71.17 To 8508. %
Min Ratio
Max Ratio
TENDL Threshold 13.114 MeV
JEFF3.3 Threshold 13.114 MeV
Cross Section (10^{-9} barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^{2}
10^{1}
10^{0}
2
3
4
5
6
7
8
9
10^{8}
2
100
Incident Energy (eV)
52-Te-125

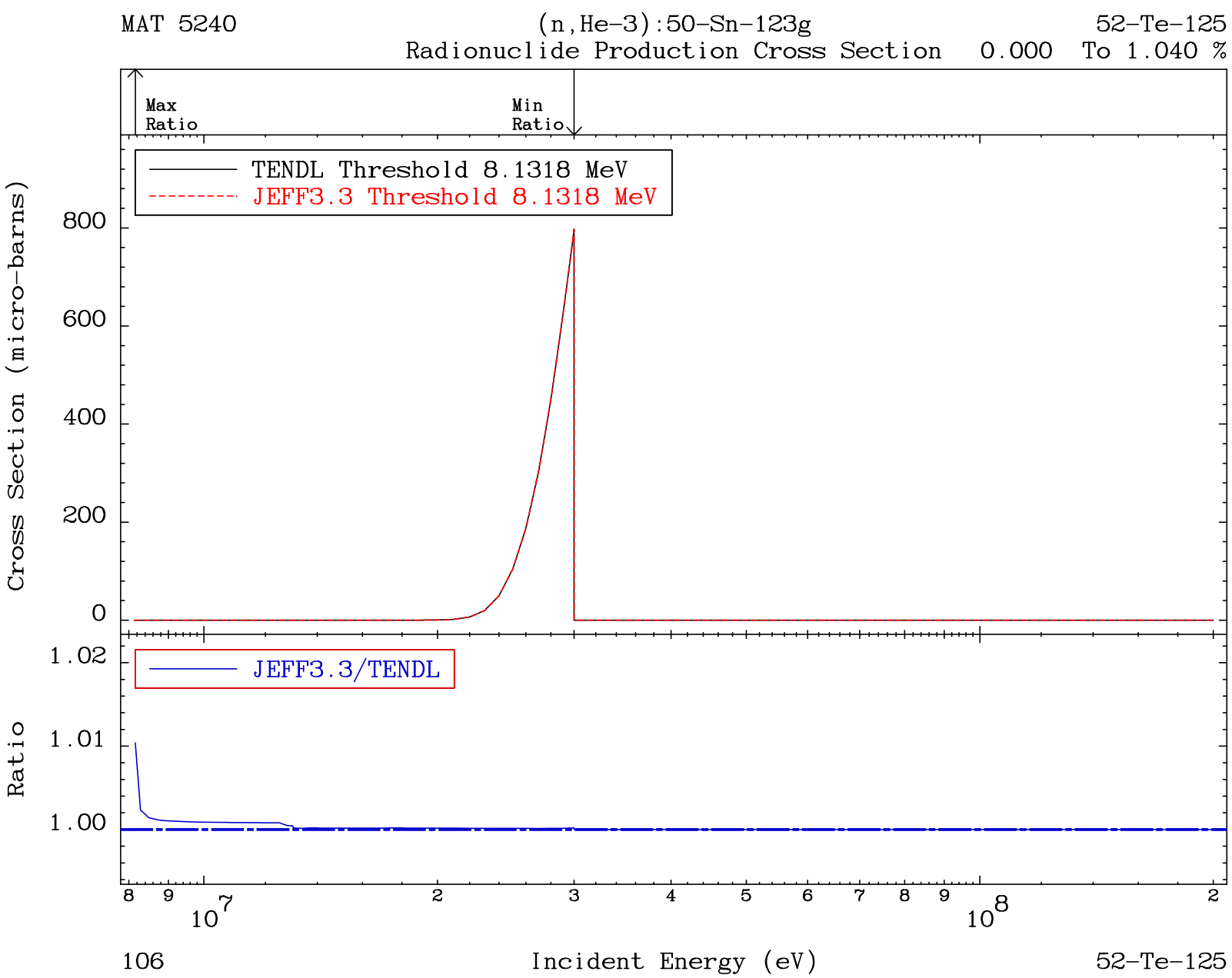

MAT 5240
(n,n') p α:49-In-120m1
52-Te-125
Radionuclide Production Cross Section
-68.41 To 4144. %
Min Ratio
Max Ratio
TENDL Threshold 13.184 MeV
JEFF3.3 Threshold 13.184 MeV
Cross Section (10^{-9} barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^{2}
10^{1}
10^{0}
2
3
4
5
6
7
8
9
10^{8}
2
101
Incident Energy (eV)
52-Te-125

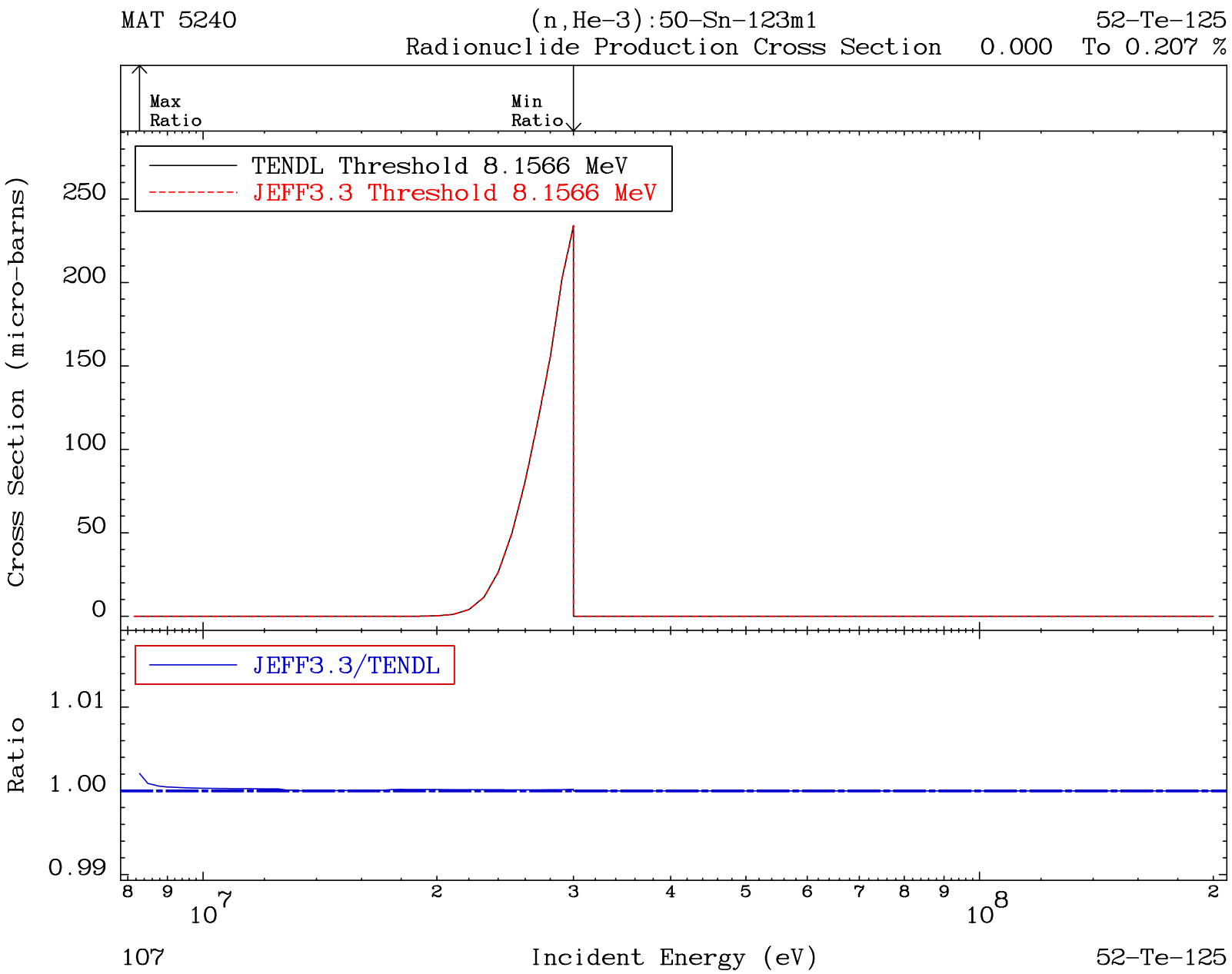

MAT 5240
(n,n') p α:49-In-120m2
52-Te-125
Radionuclide Production Cross Section
-82.22 To 7964. %
Min Ratio
Max Ratio
TENDL Threshold 13.517 MeV
JEFF3.3 Threshold 13.517 MeV
Cross Section (10^{-9} barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
102
52-Te-125

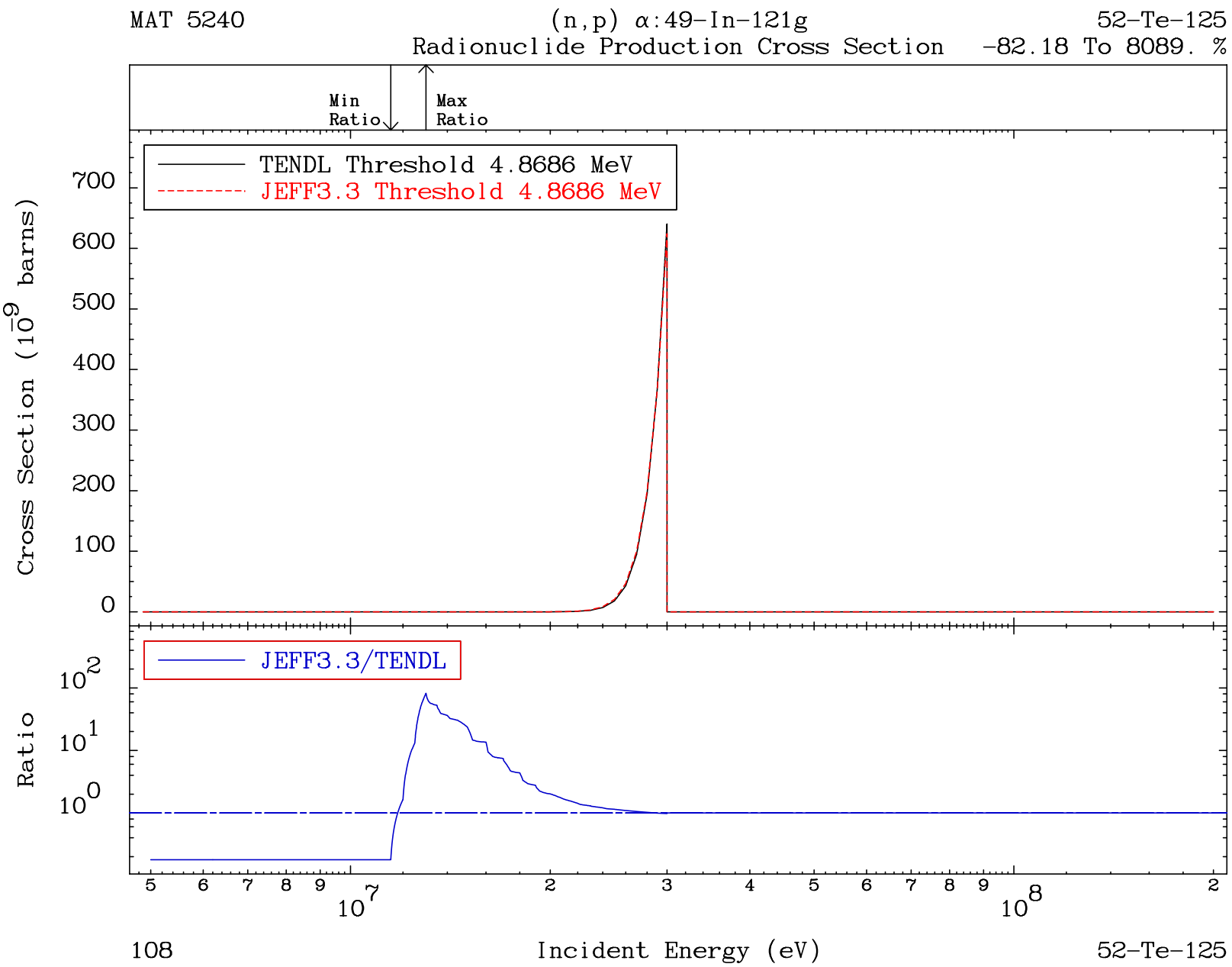

MAT 5240
(n,d):51-Sb-124g
52-Te-125
Radionuclide Production Cross Section
-0.006 To 8.466 %
Max Ratio
Min Ratio
TENDL Threshold 6.5194 MeV
JEFF3.3 Threshold 6.5186 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
JEFF3.3/TENDL
Ratio
1.00
1.05
1.10
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
103
Incident Energy (eV)
52-Te-125

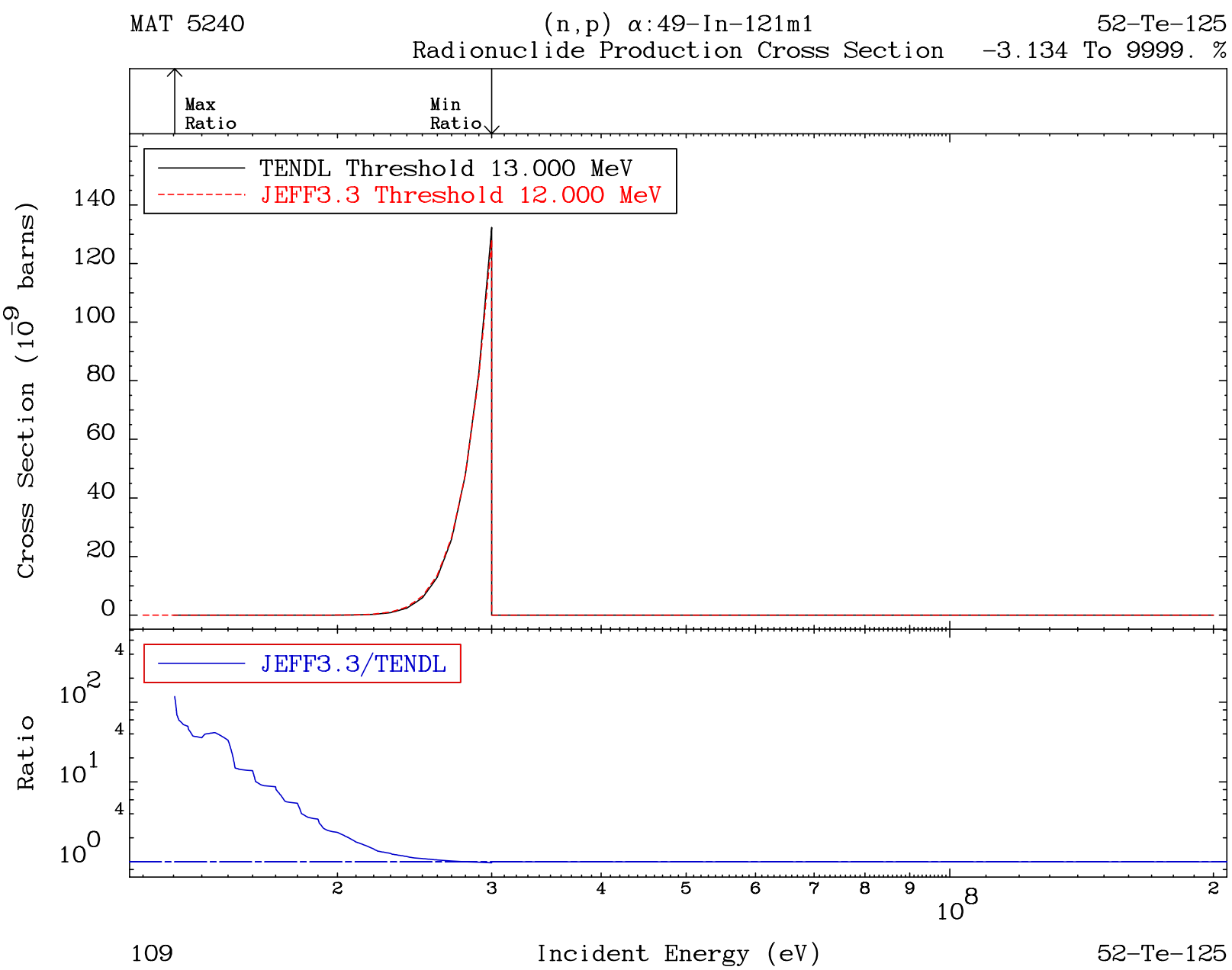

MAT 5240
(n,d):51-Sb-124m1
52-Te-125
Radionuclide Production Cross Section 0.000 To 4.439 %
Max Ratio
Min Ratio
TENDL Threshold 6.5303 MeV
JEFF3.3 Threshold 6.5295 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
JEFF3.3/TENDL
Ratio
1.00
1.02
1.04
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
104
Incident Energy (eV)
52-Te-125

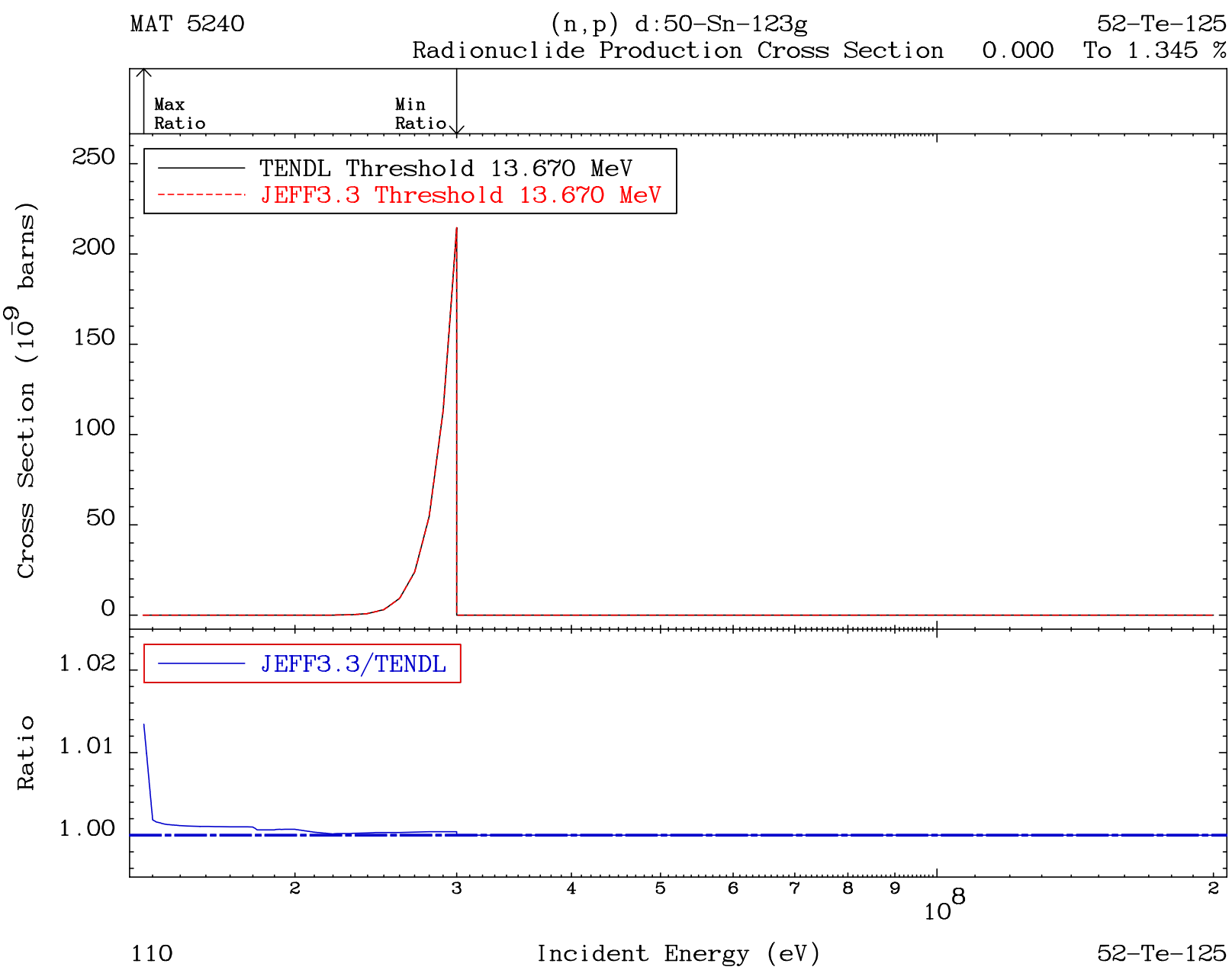

MAT 5240
(n,d):51-Sb-124m2
52-Te-125
Radionuclide Production Cross Section 0.000 To 1.703 %
Max Ratio
Min Ratio
TENDL Threshold 7.8000 MeV
JEFF3.3 Threshold 7.8000 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
JEFF3.3/TENDL
Ratio
1.00
1.01
1.02
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
105
Incident Energy (eV)
52-Te-125

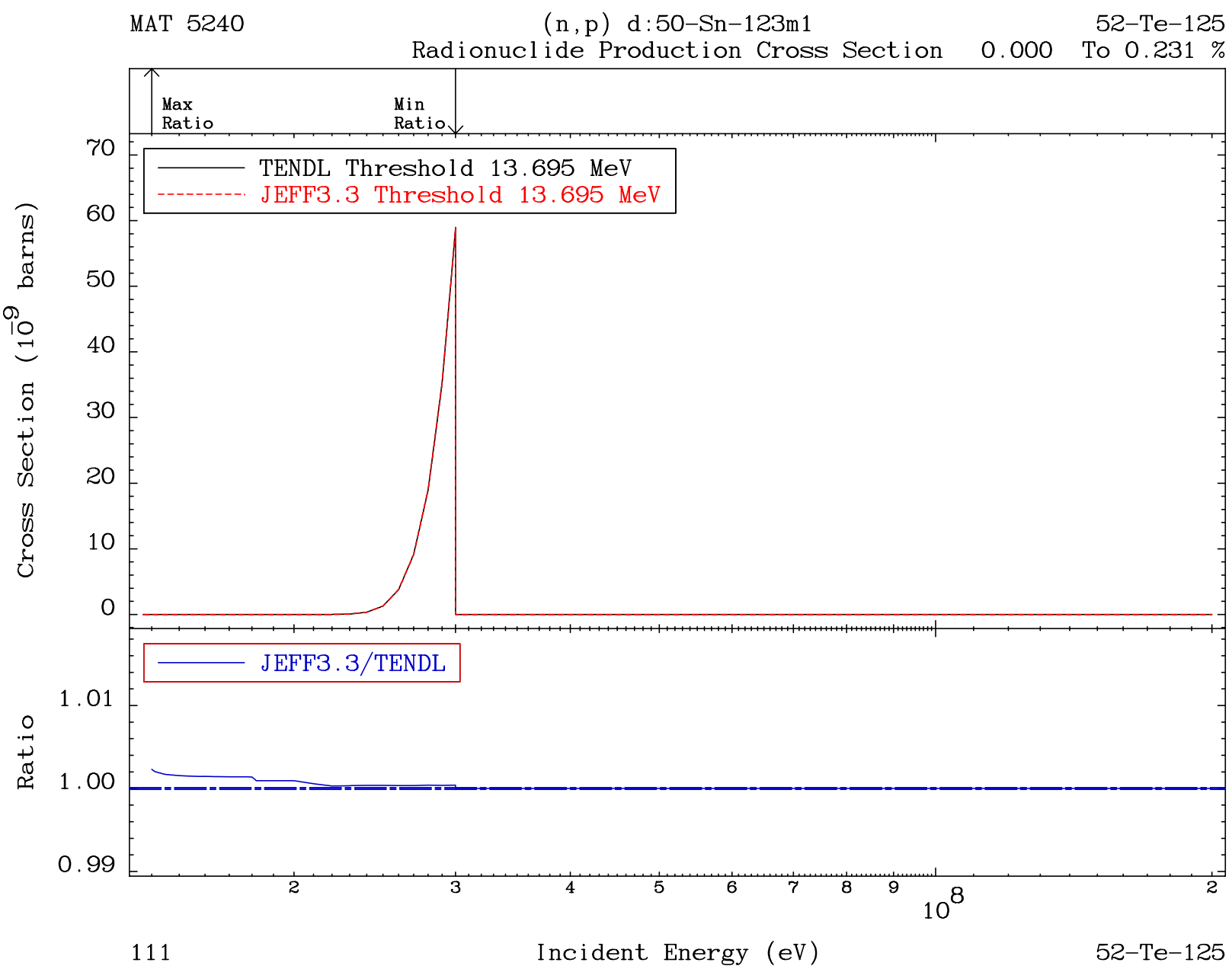

MAT 5240
(n,He-3):50-Sn-123g
52-Te-125
Radionuclide Production Cross Section 0.000 To 1.040 %
Max Ratio
Min Ratio
TENDL Threshold 8.1318 MeV
JEFF3.3 Threshold 8.1318 MeV
Cross Section (micro-barns)
800
600
400
200
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
106
Incident Energy (eV)
52-Te-125

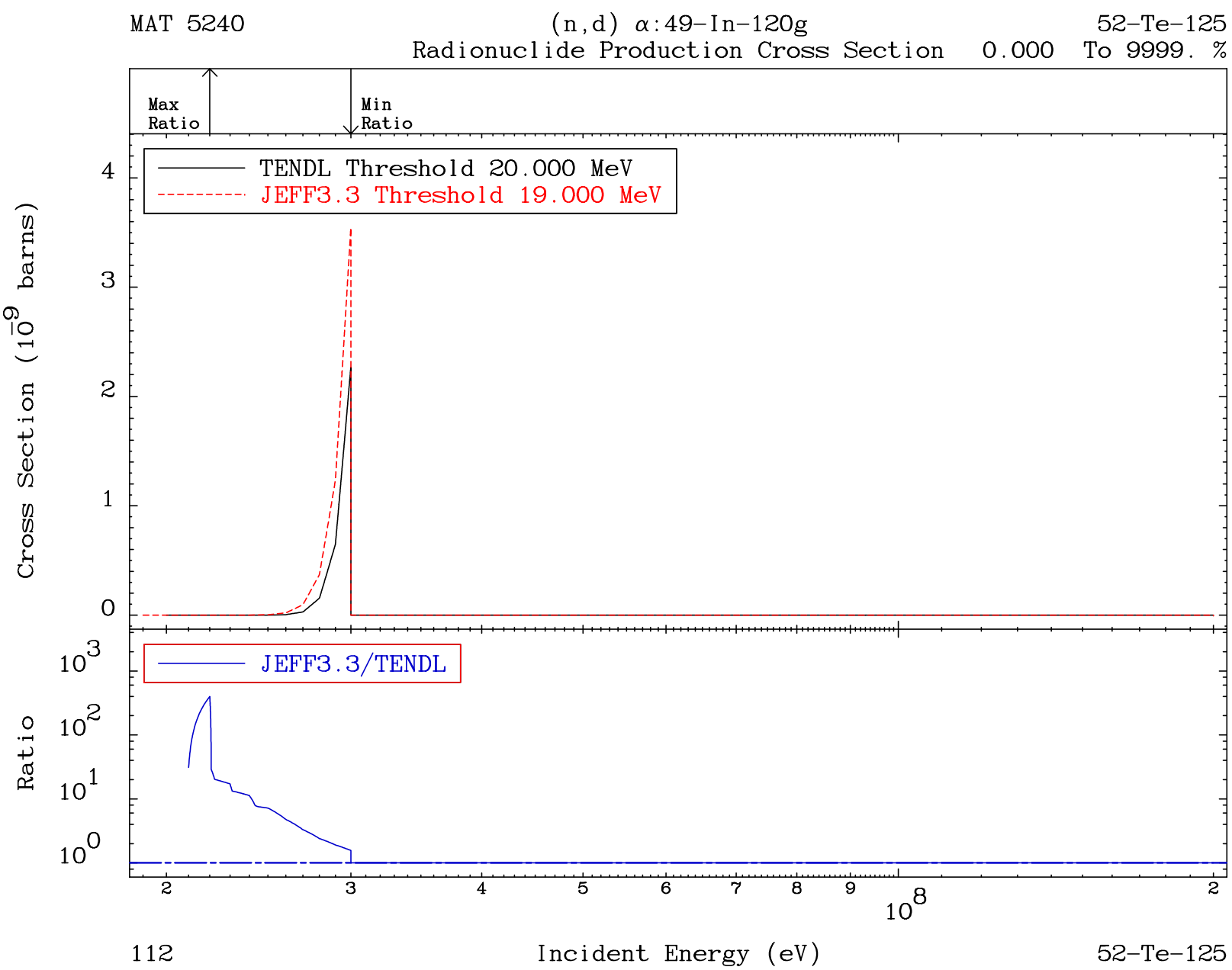

MAT 5240
(n,He-3):50-Sn-123m1
52-Te-125
Radionuclide Production Cross Section 0.000 To 0.207 %
Max Ratio
Min Ratio
TENDL Threshold 8.1566 MeV
JEFF3.3 Threshold 8.1566 MeV
Cross Section (micro-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
107
Incident Energy (eV)
52-Te-125

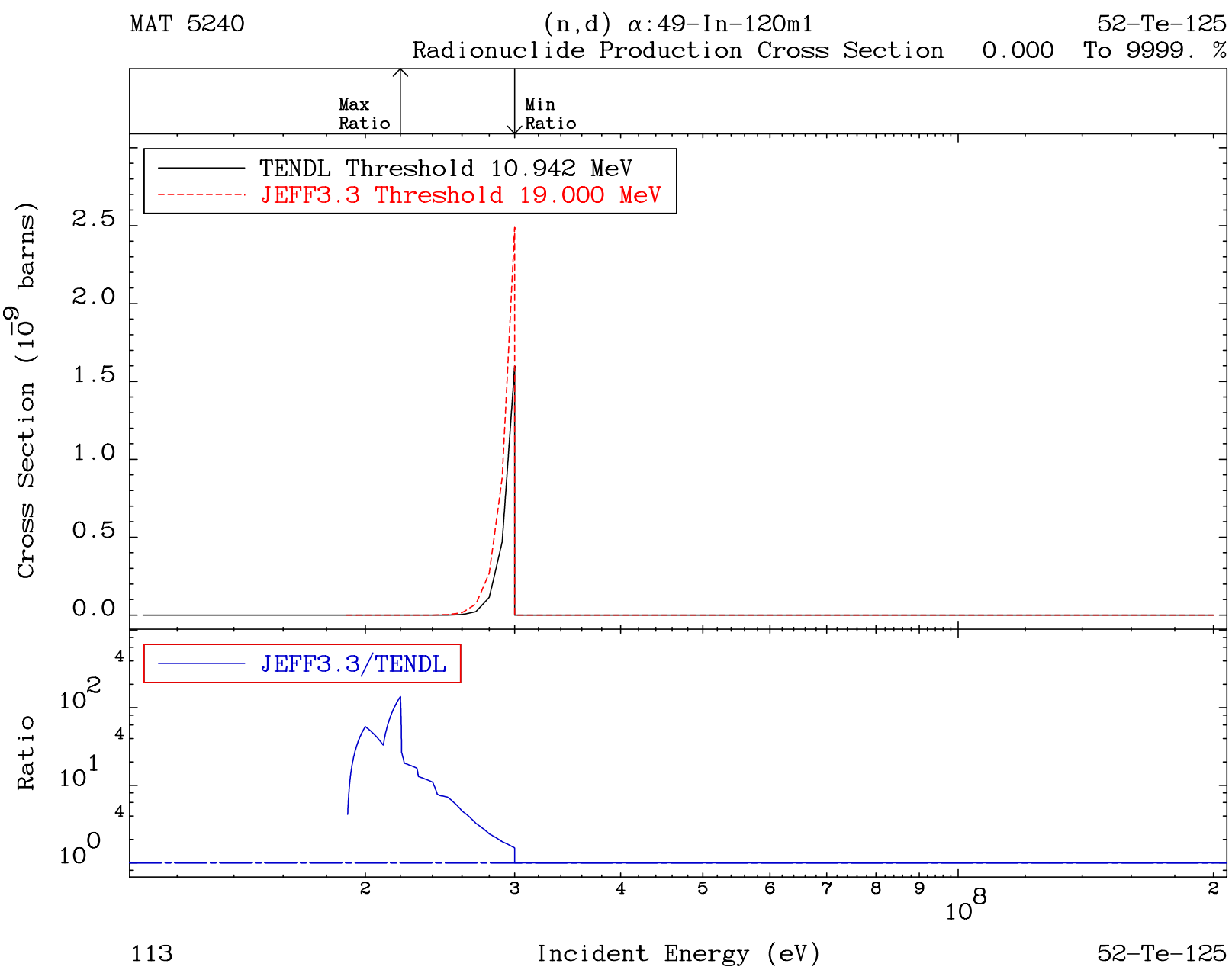

MAT 5240
(n,p) α:49-In-121g
52-Te-125
Radionuclide Production Cross Section
-82.18 To 8089. %
Min Ratio
Max Ratio
TENDL Threshold 4.8686 MeV
JEFF3.3 Threshold 4.8686 MeV
Cross Section (10^{-9} barns)
700
600
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
10^2
10^1
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
108
Incident Energy (eV)
52-Te-125

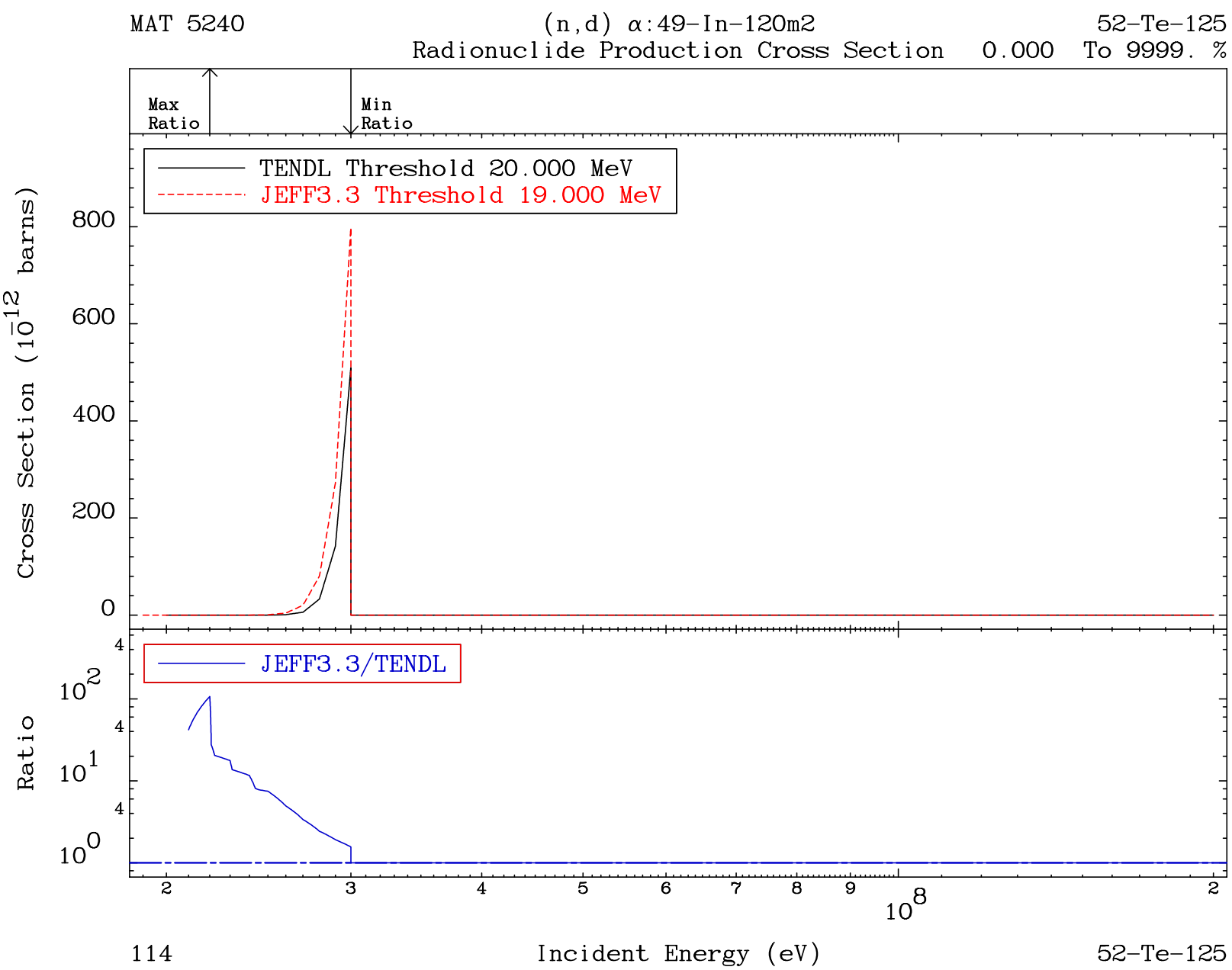

MAT 5240
(n,p) α:49-In-121m1
52-Te-125
Radionuclide Production Cross Section
-3.134 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 13.000 MeV
JEFF3.3 Threshold 12.000 MeV
Cross Section (10^{-9} barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^{2}
10^{1}
10^{0}
2
3
4
5
6
7
8
9
10^{8}
2
109
Incident Energy (eV)
52-Te-125


MAT 5240
(n,p) d:50-Sn-123g
52-Te-125
Radionuclide Production Cross Section 0.000 To 1.345 %
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
1.02
1.01
1.00
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 0.000 To 0.231 %
Max Ratio
Min Ratio
TENDL Threshold 13.695 MeV
JEFF3.3 Threshold 13.695 MeV
Cross Section (10^{-9} barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
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 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 20.000 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 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 10.942 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}
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 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 20.000 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}
2
3
4
5
6
7
8
9
10^{8}
2
114
Incident Energy (eV)
52-Te-125