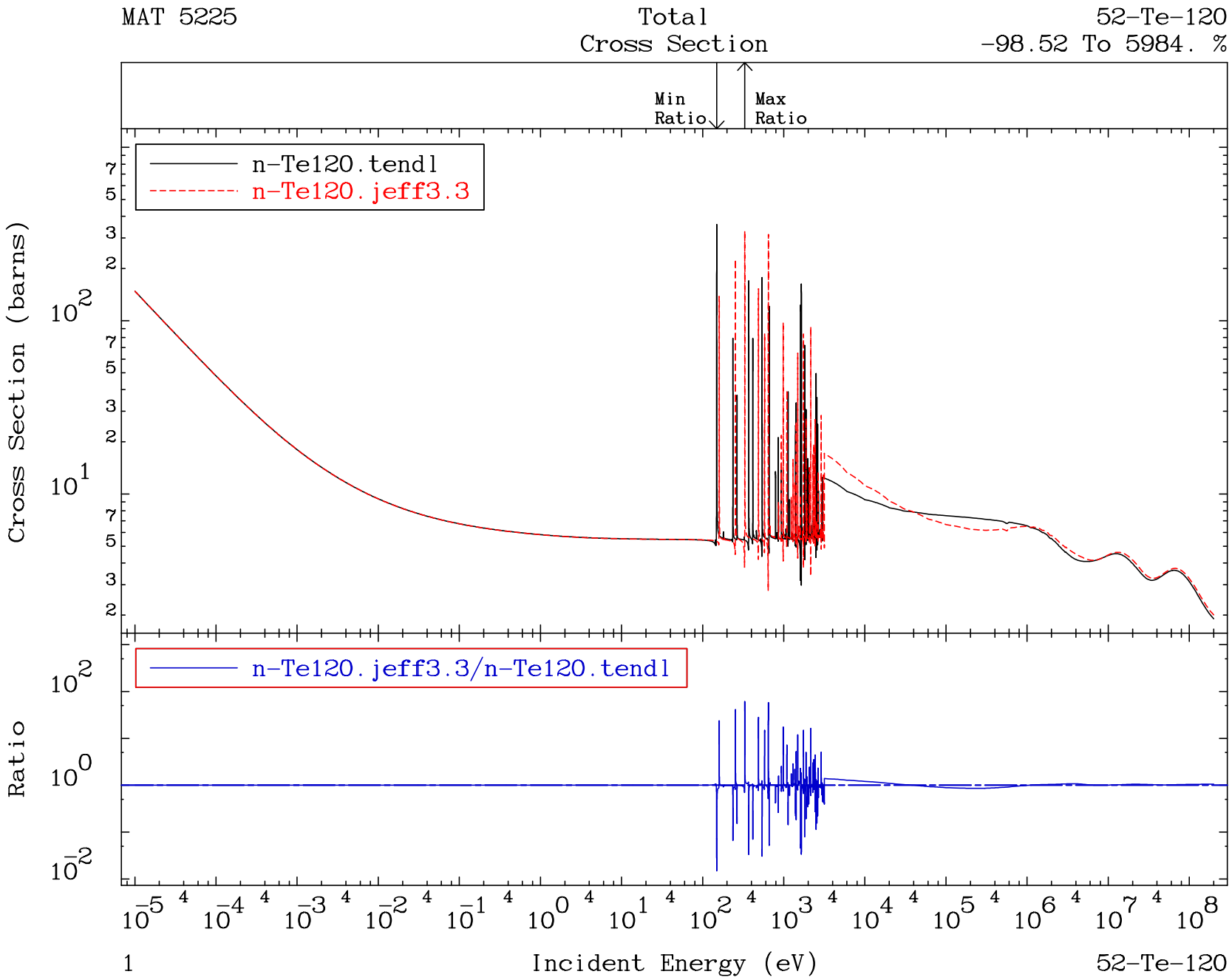
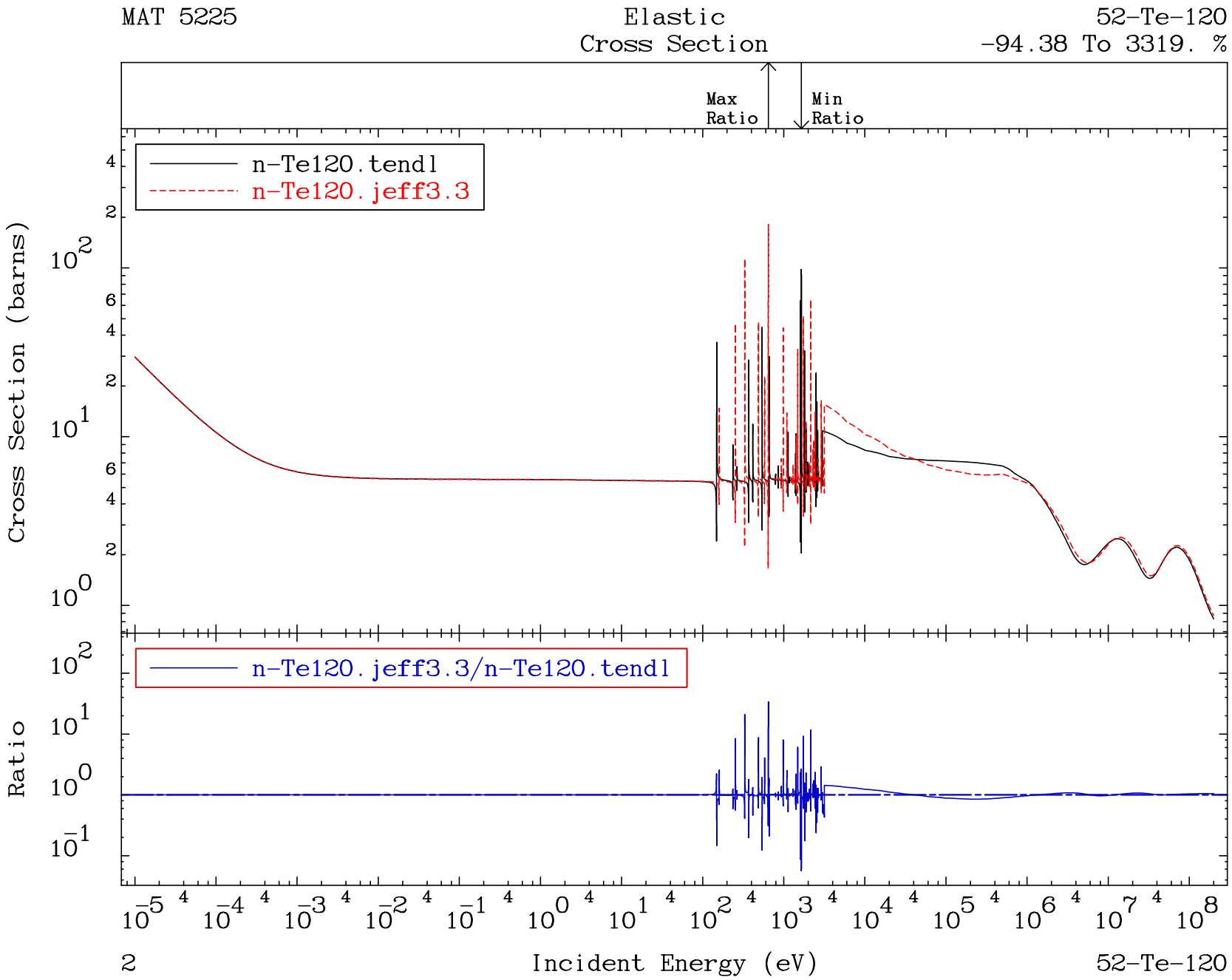
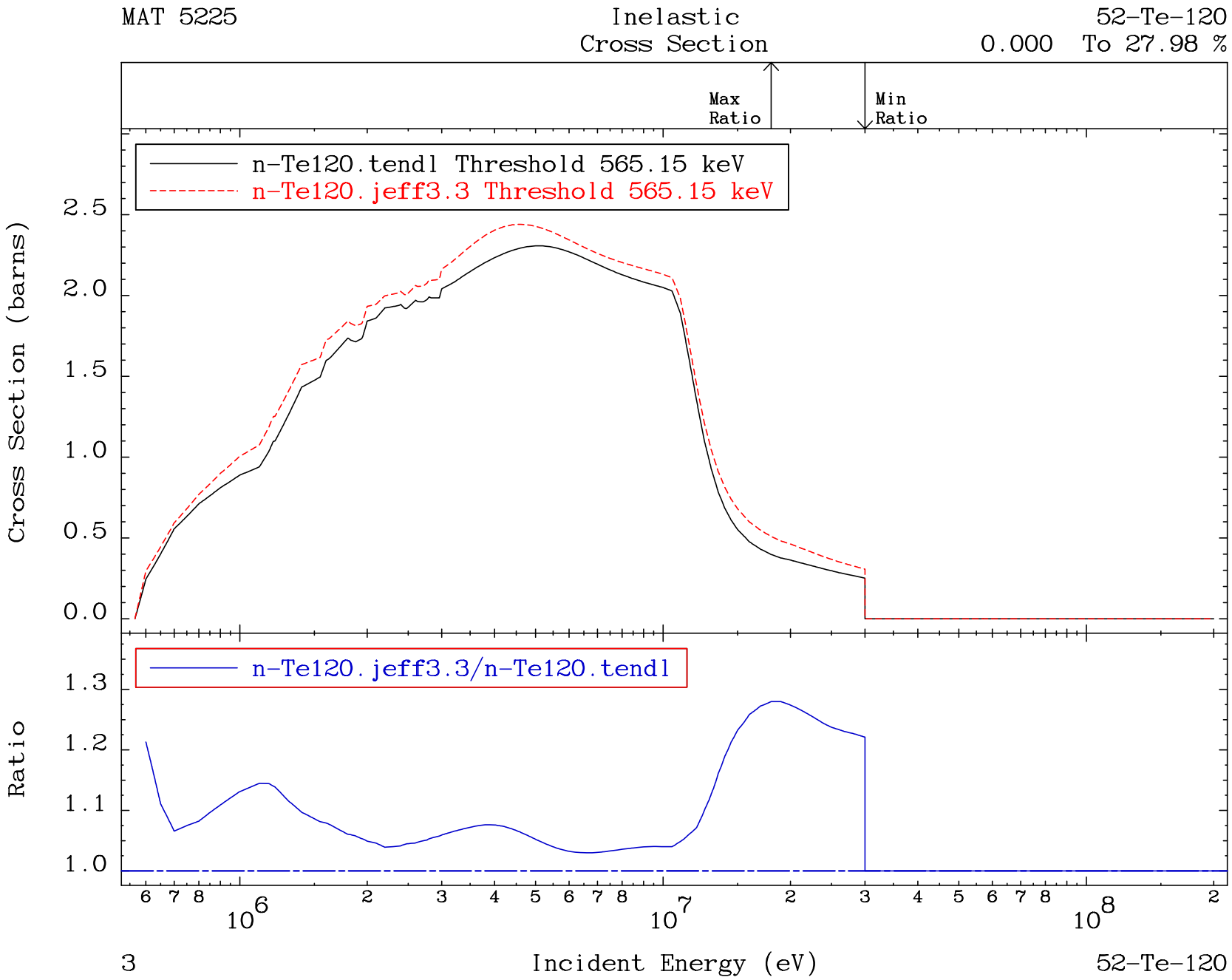
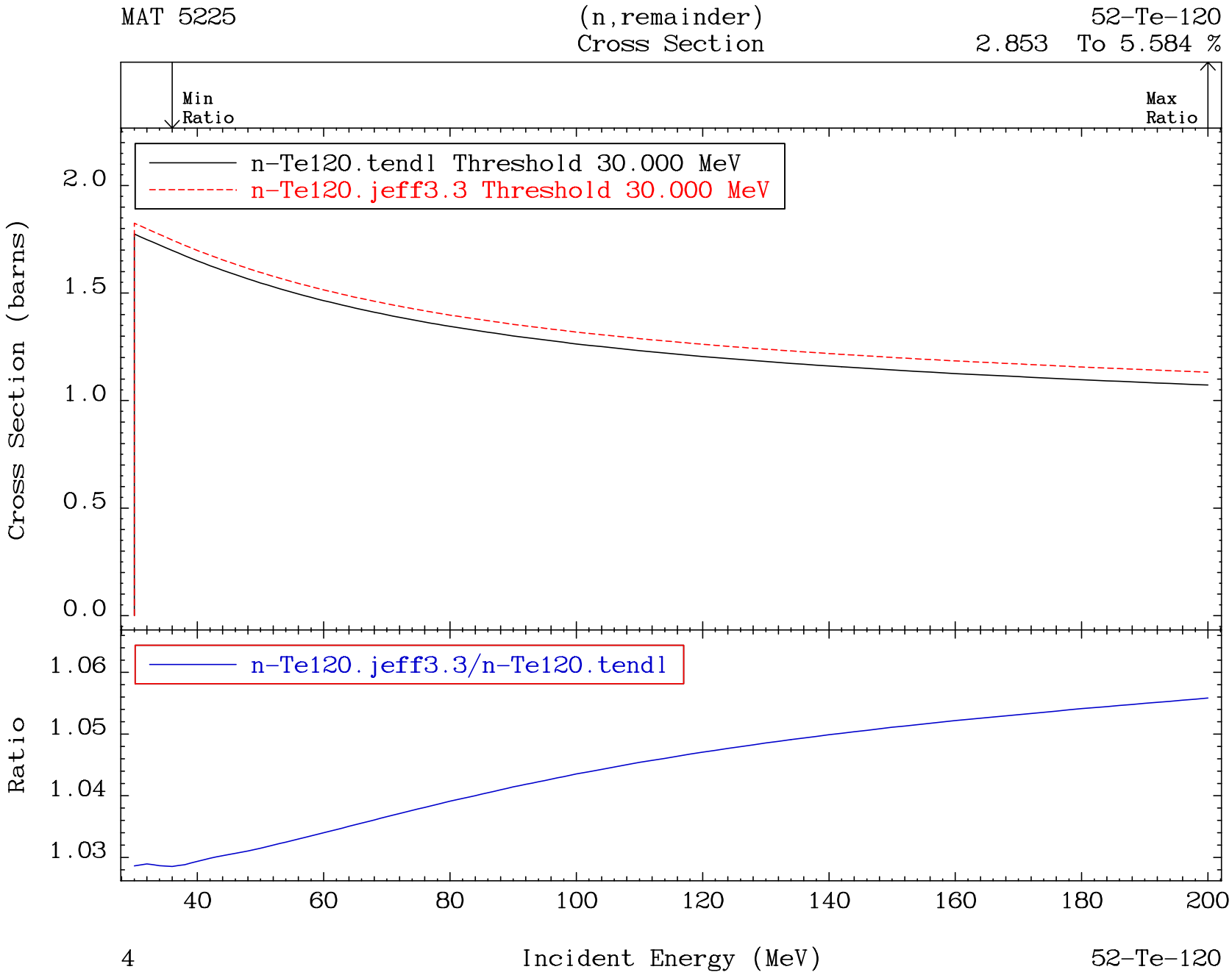
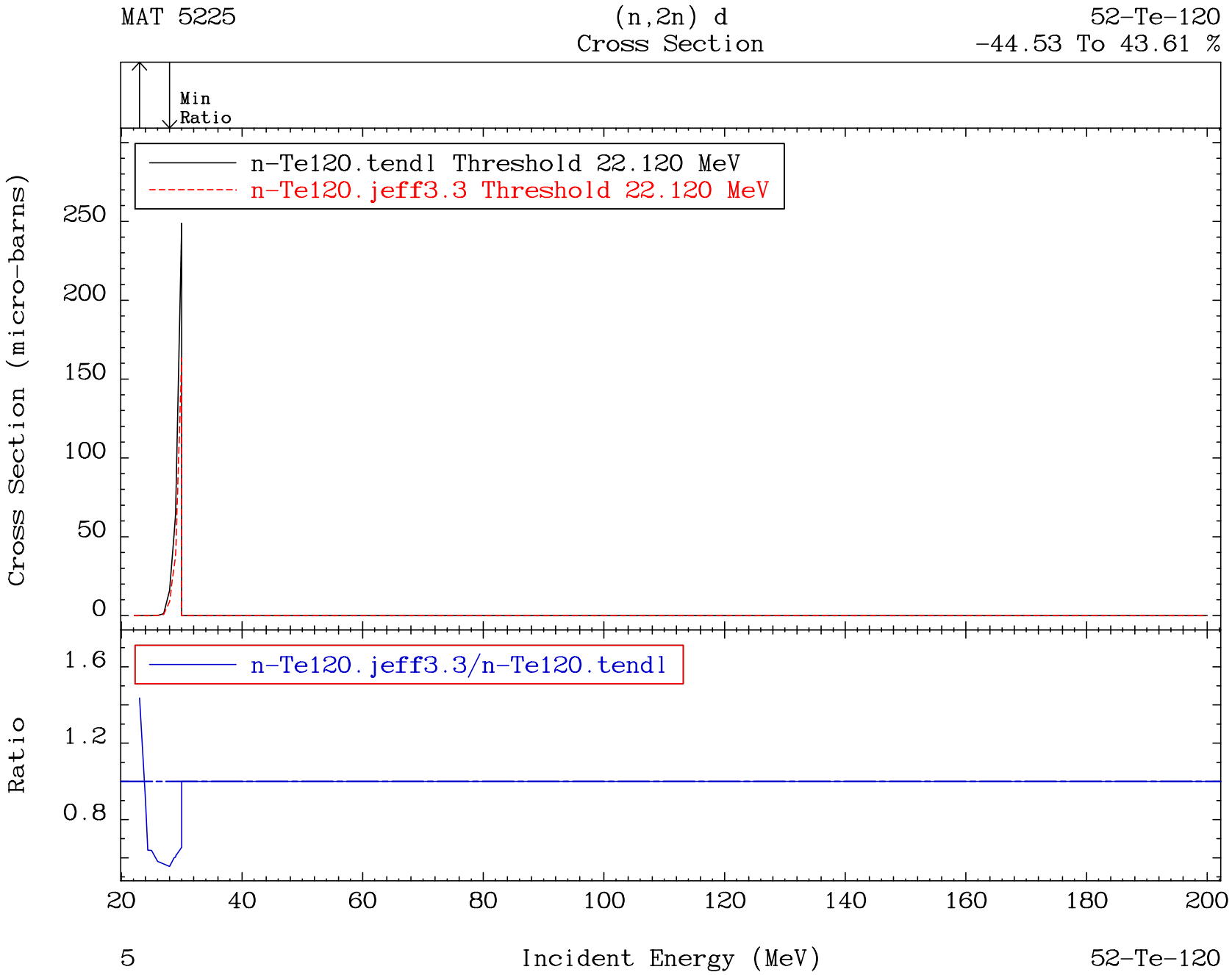
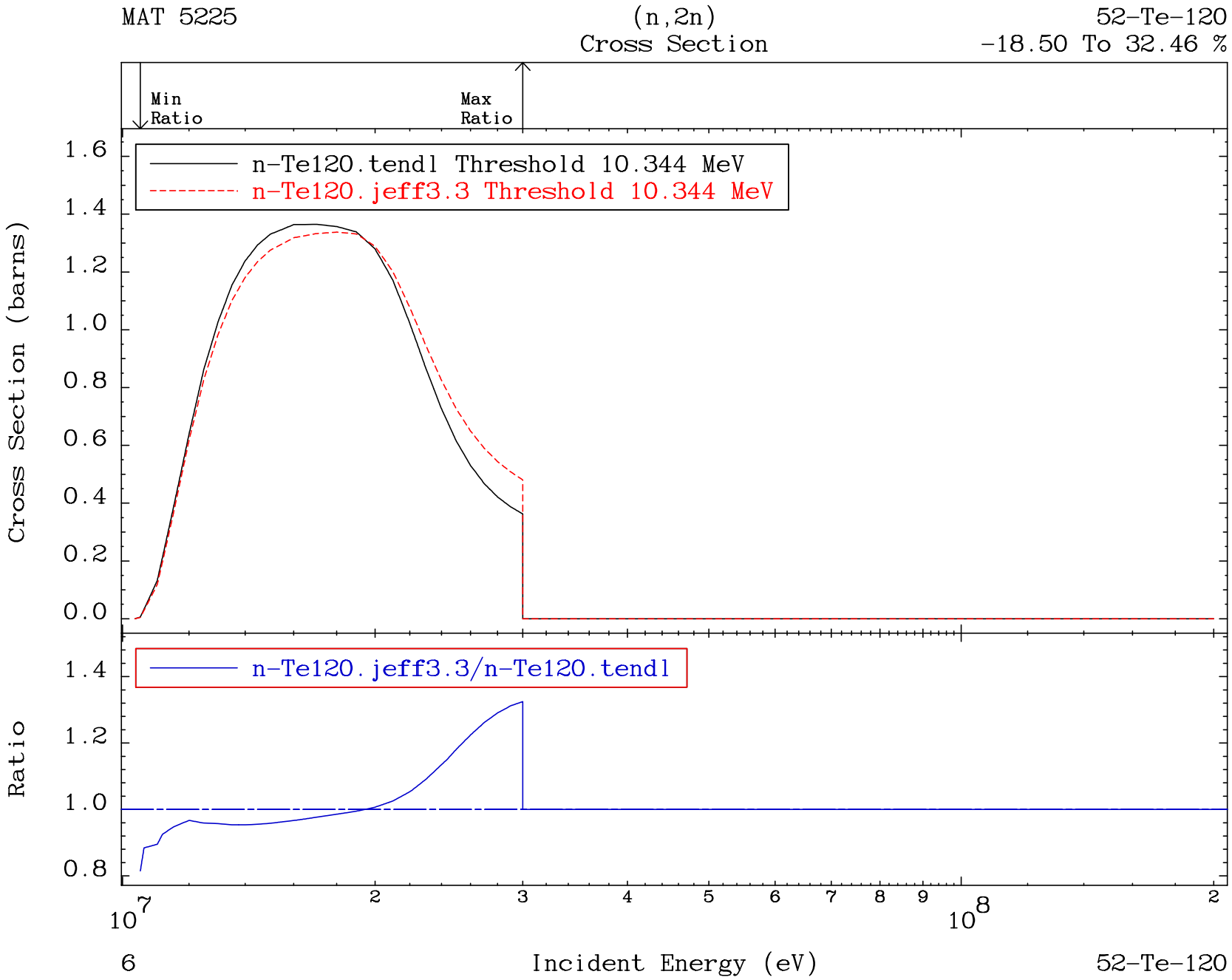

MAT 5225
Total
Cross Section
52-Te-120
-98.52 To 5984. %
Min Ratio
Max Ratio
n-Te120.tendl
n-Te120.jeff3.3
Cross Section (barns)
n-Te120.jeff3.3/n-Te120.tendl
Ratio
Incident Energy (eV)
1
52-Te-120

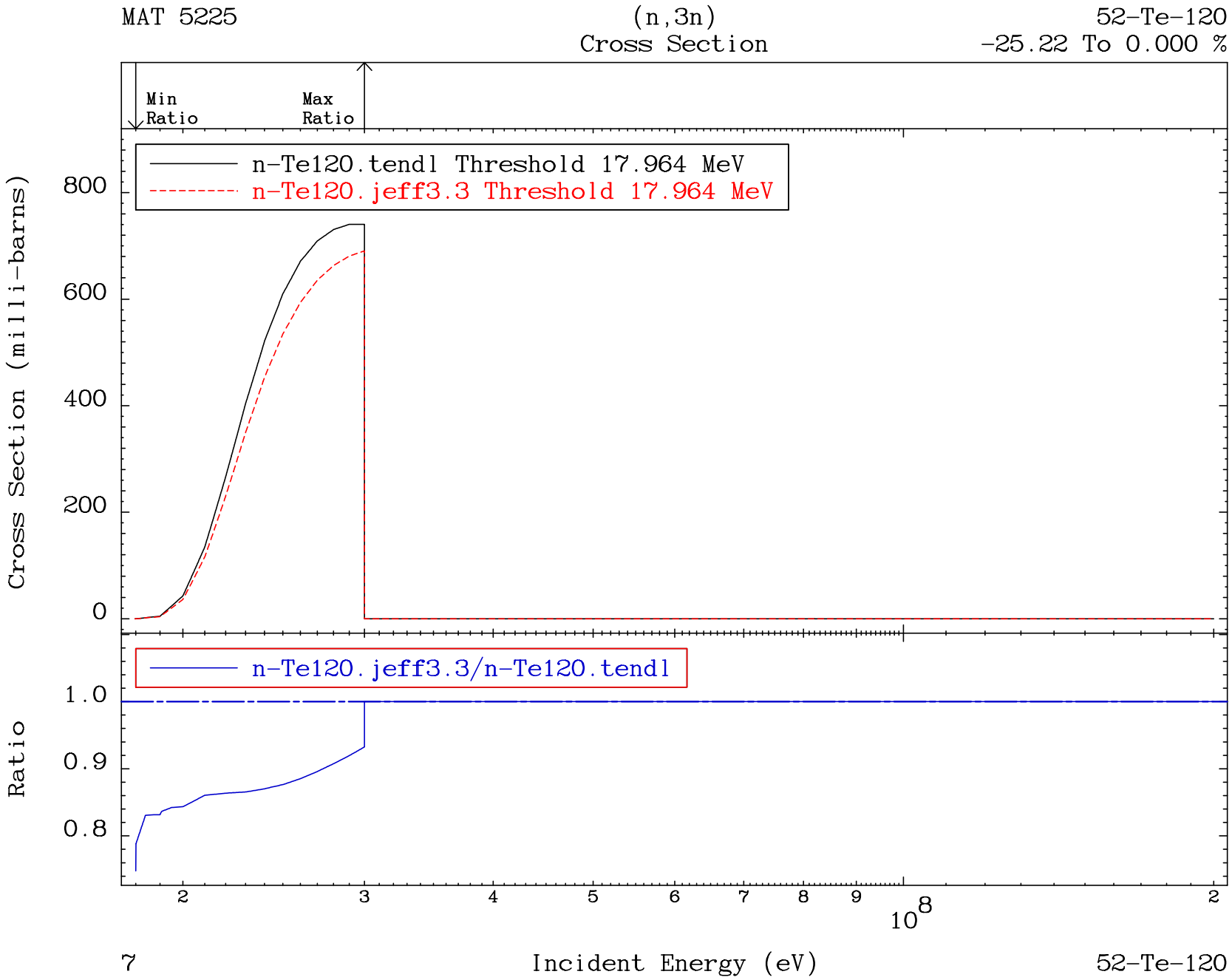

MAT 5225
Elastic
Cross Section
52-Te-120
-94.38 To 3319. %
Max
Ratio
Min
Ratio
n-Te120.tendl
n-Te120.jeff3.3
Cross Section (barns)
n-Te120.jeff3.3/n-Te120.tendl
Ratio
Incident Energy (eV)
2
52-Te-120

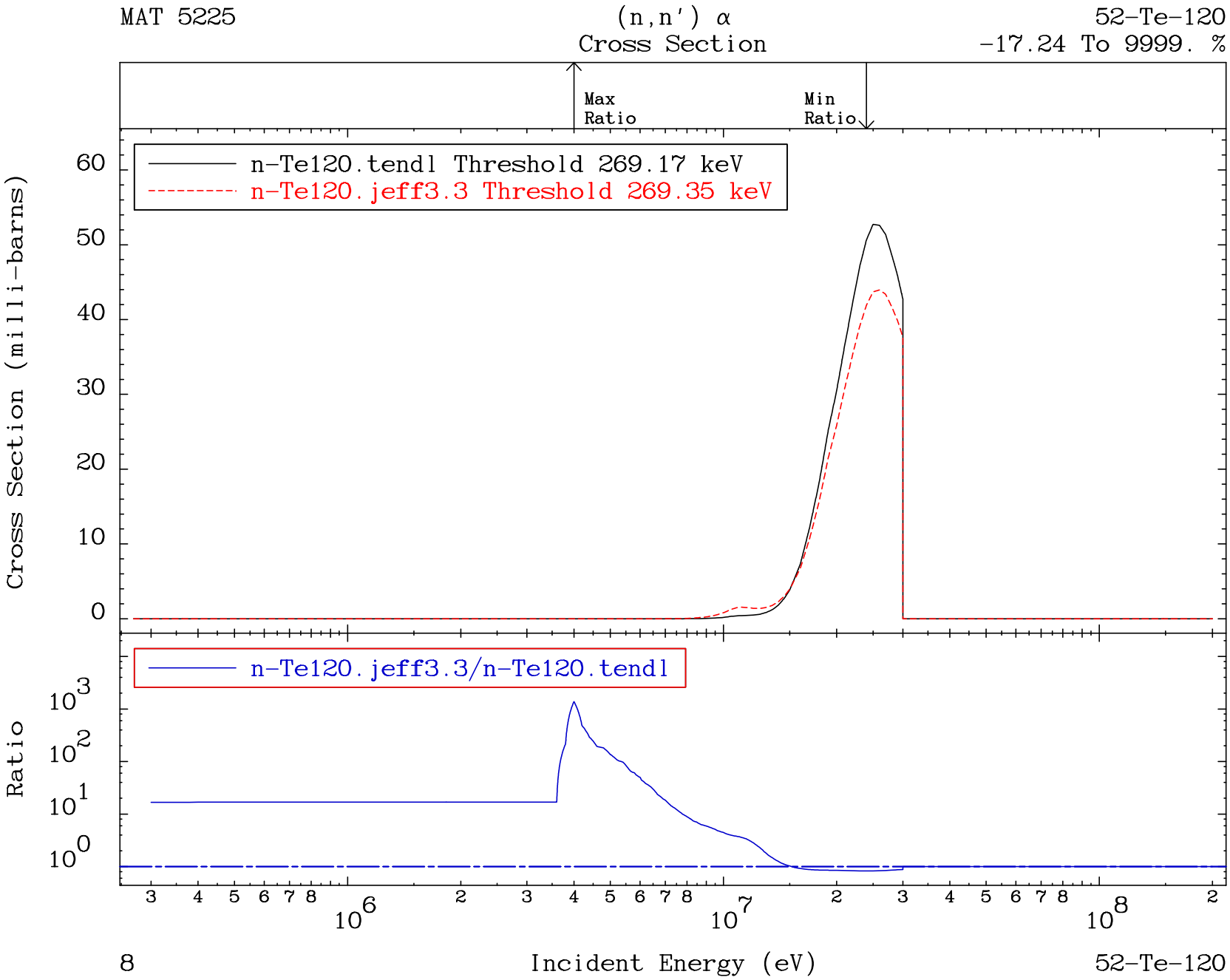

MAT 5225
Inelastic
Cross Section
52-Te-120
0.000 To 27.98 %
Max
Ratio
Min
Ratio
n-Te120.tendl Threshold 565.15 keV
n-Te120.jeff3.3 Threshold 565.15 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.3
1.2
1.1
1.0
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
52-Te-120

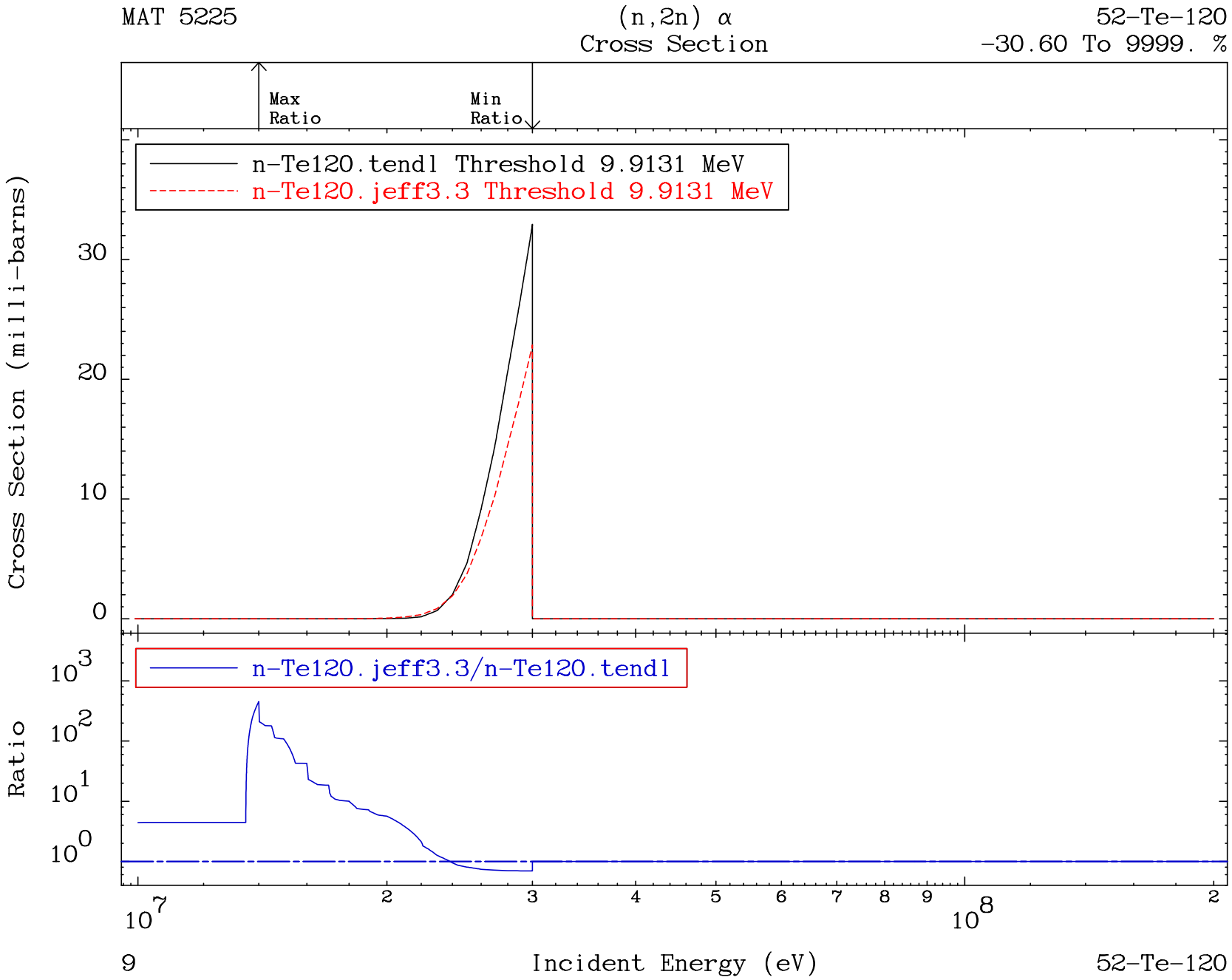

MAT 5225
(n,remainder)
Cross Section
52-Te-120
2.853 To 5.584 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 30.000 MeV
n-Te120.jeff3.3 Threshold 30.000 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.06
1.05
1.04
1.03
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
52-Te-120

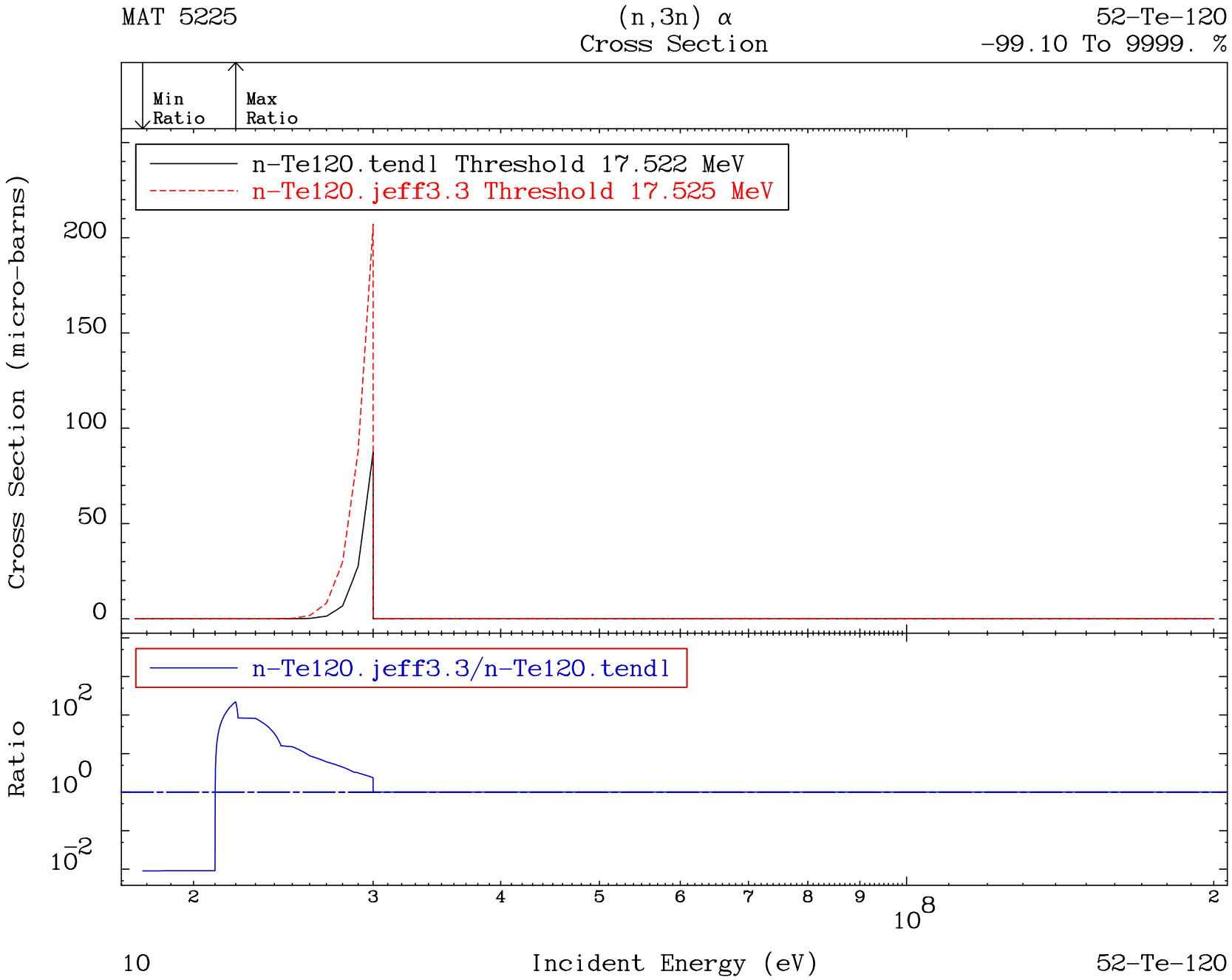

MAT 5225
(n,2n) d
Cross Section
52-Te-120
-44.53 To 43.61 %
Min
Ratio
n-Te120.tendl Threshold 22.120 MeV
n-Te120.jeff3.3 Threshold 22.120 MeV
Cross Section (micro-barns)
250
200
150
100
50
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.6
1.2
0.8
20
40
60
80
100
120
140
160
180
200
5
Incident Energy (MeV)
52-Te-120

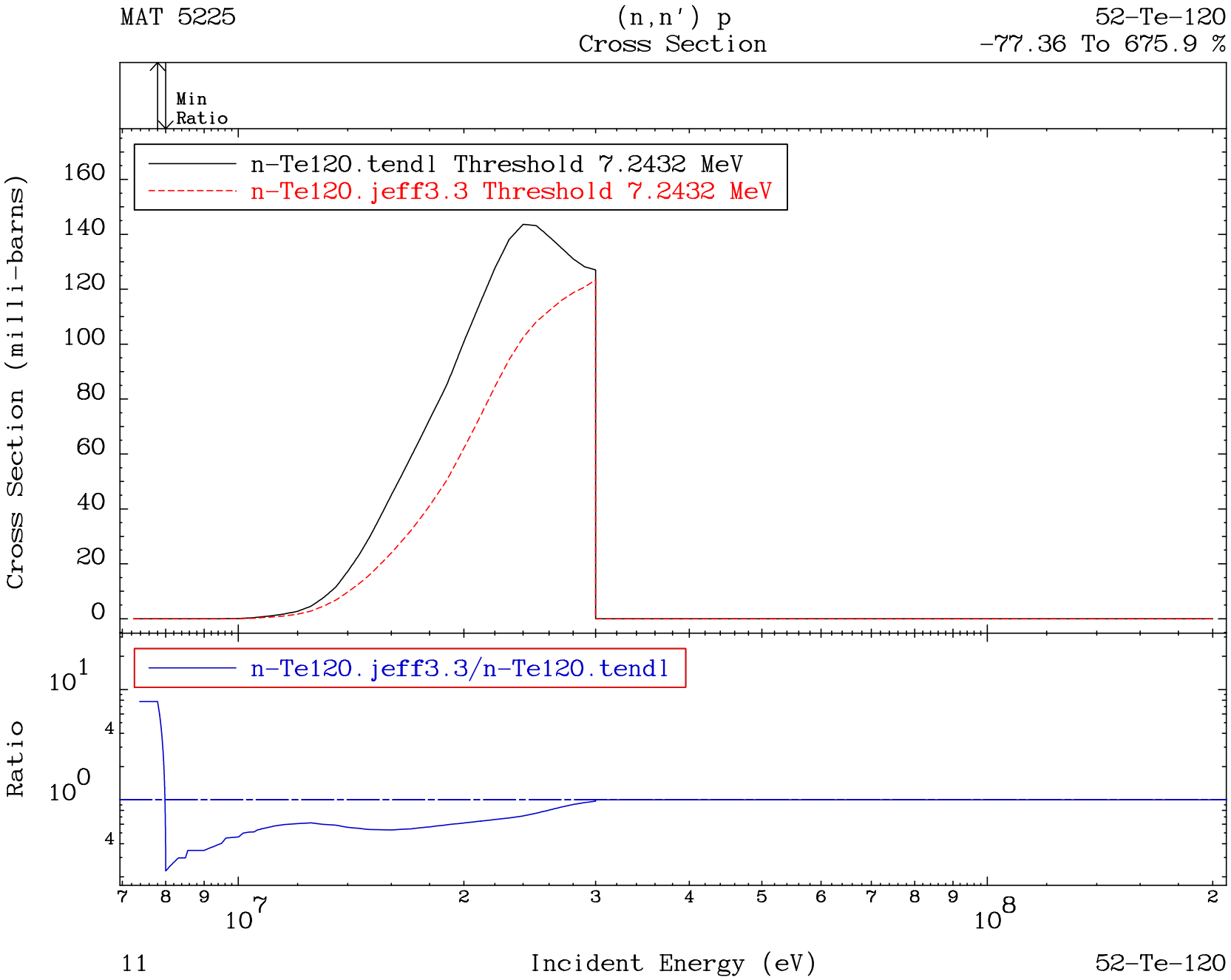

MAT 5225
(n,2n)
Cross Section
52-Te-120
-18.50 To 32.46 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 10.344 MeV
n-Te120.jeff3.3 Threshold 10.344 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.4
1.2
1.0
0.8
10^7
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
52-Te-120

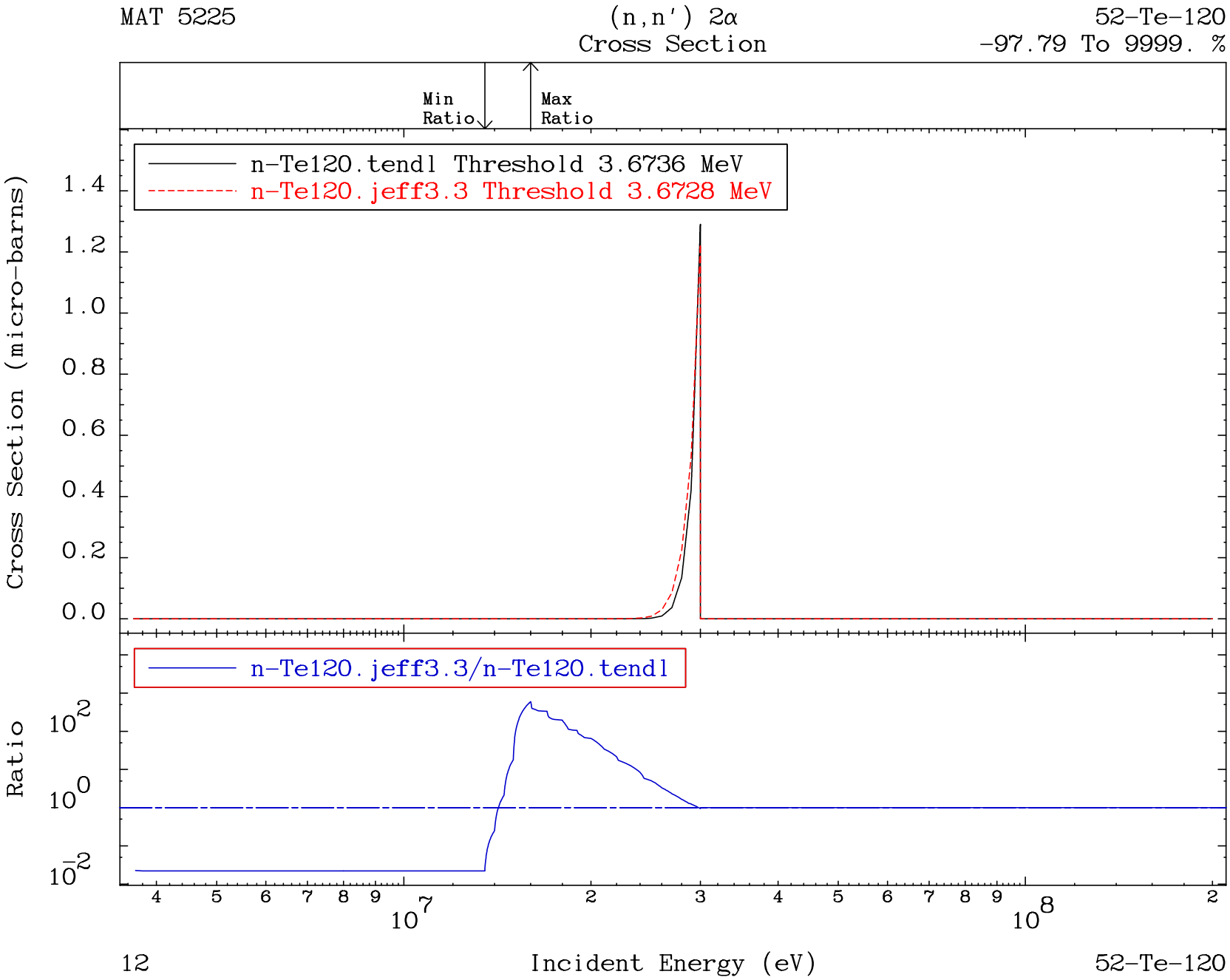

MAT 5225
(n,3n)
Cross Section
52-Te-120
-25.22 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 17.964 MeV
n-Te120.jeff3.3 Threshold 17.964 MeV
Cross Section (milli-barns)
800
600
400
200
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
0.9
0.8
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
52-Te-120

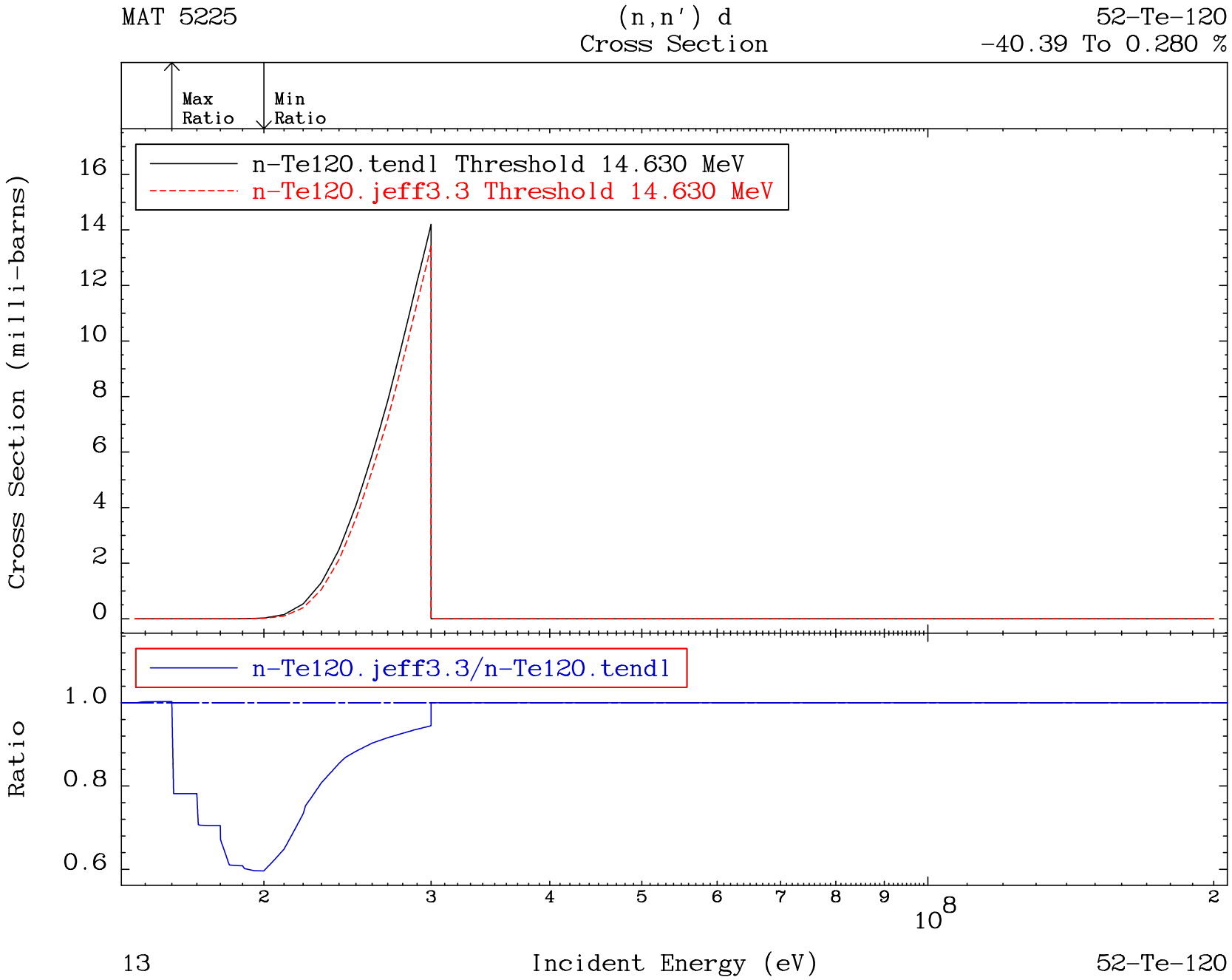

MAT 5225
(n,n') α
Cross Section
52-Te-120
-17.24 To 9999. %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 269.17 keV
n-Te120.jeff3.3 Threshold 269.35 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
10^3
10^2
10^1
10^0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
8
Incident Energy (eV)
52-Te-120

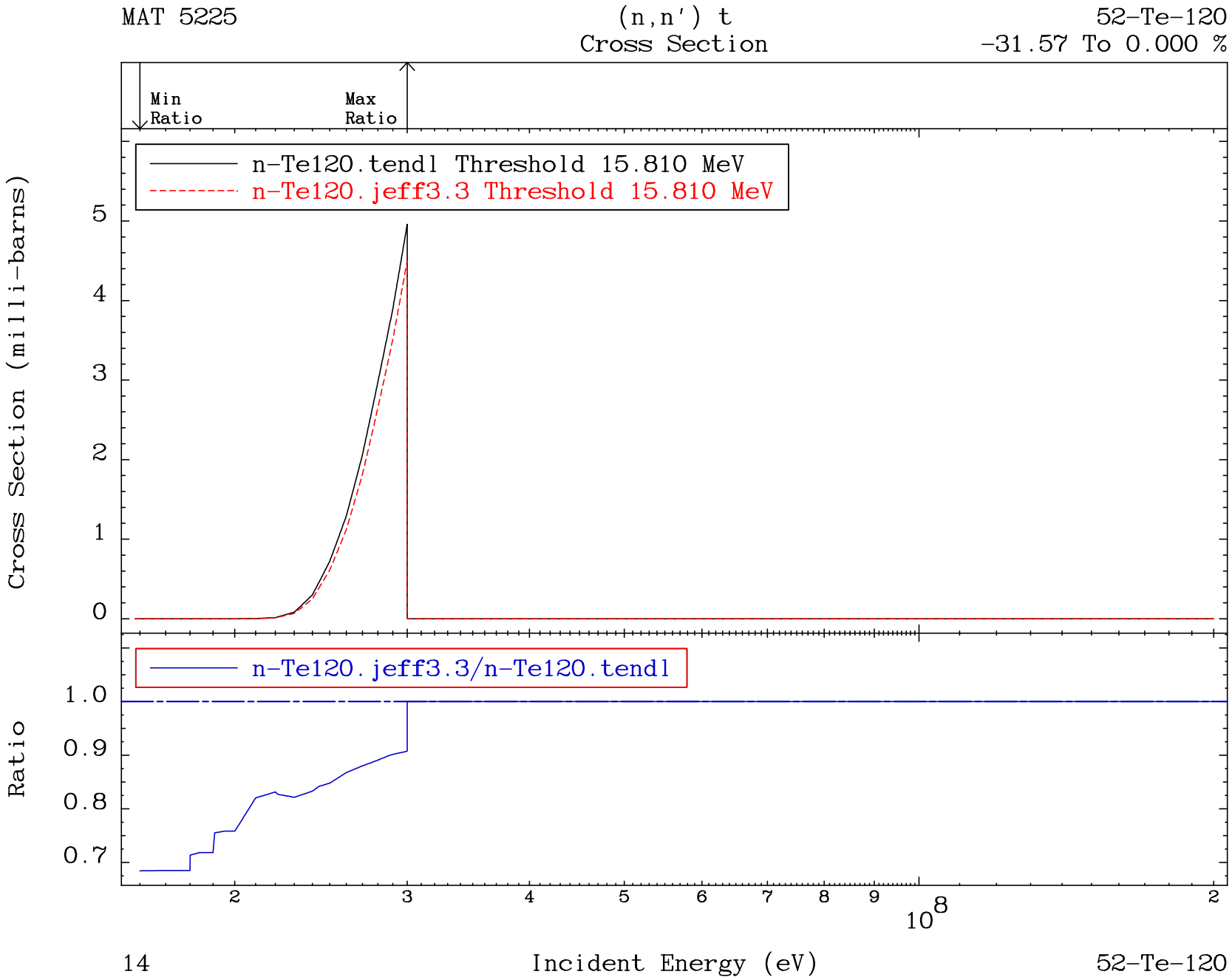

MAT 5225
(n,2n) α
Cross Section
52-Te-120
-30.60 To 9999. %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 9.9131 MeV
n-Te120.jeff3.3 Threshold 9.9131 MeV
Cross Section (milli-barns)
30
20
10
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
10^3
10^2
10^1
10^0
10^7
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
52-Te-120

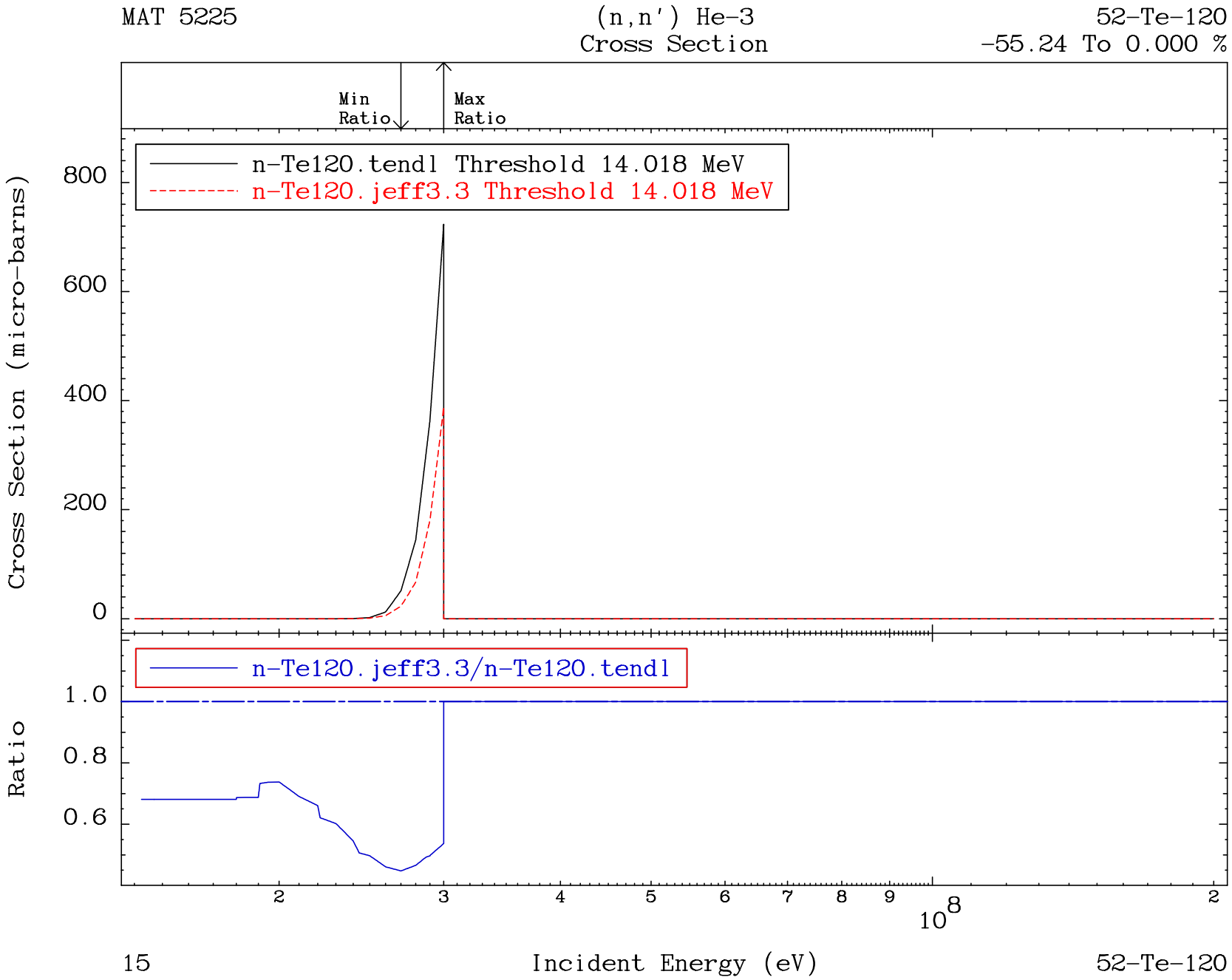

MAT 5225
(n,3n) α
Cross Section
52-Te-120
-99.10 To 9999. %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 17.522 MeV
n-Te120.jeff3.3 Threshold 17.525 MeV
Cross Section (micro-barns)
200
150
100
50
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
52-Te-120

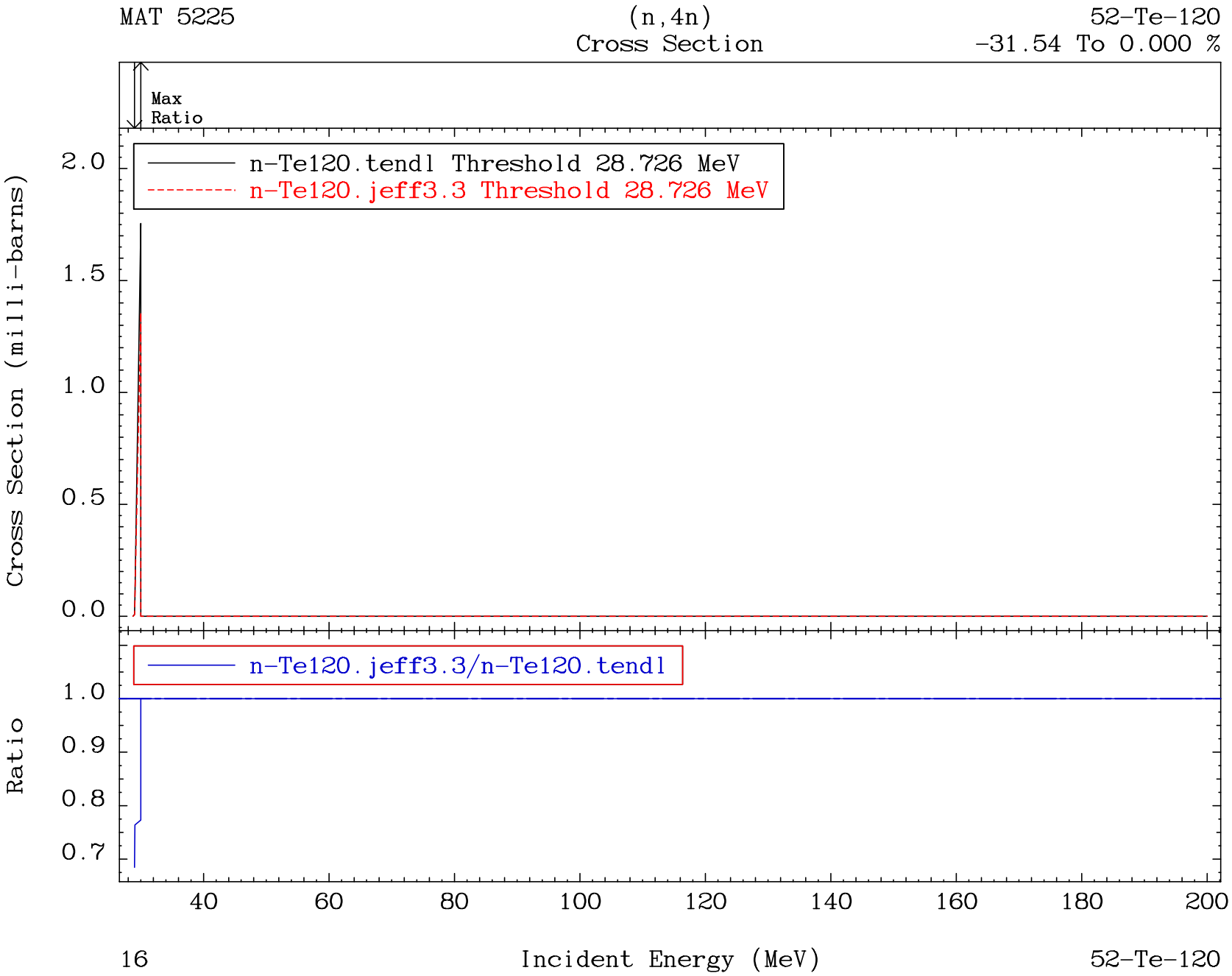

MAT 5225
(n,n') p
Cross Section
52-Te-120
-77.36 To 675.9 %
Min
Ratio
n-Te120.tendl Threshold 7.2432 MeV
n-Te120.jeff3.3 Threshold 7.2432 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
10^1
10^0
4
4
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
52-Te-120

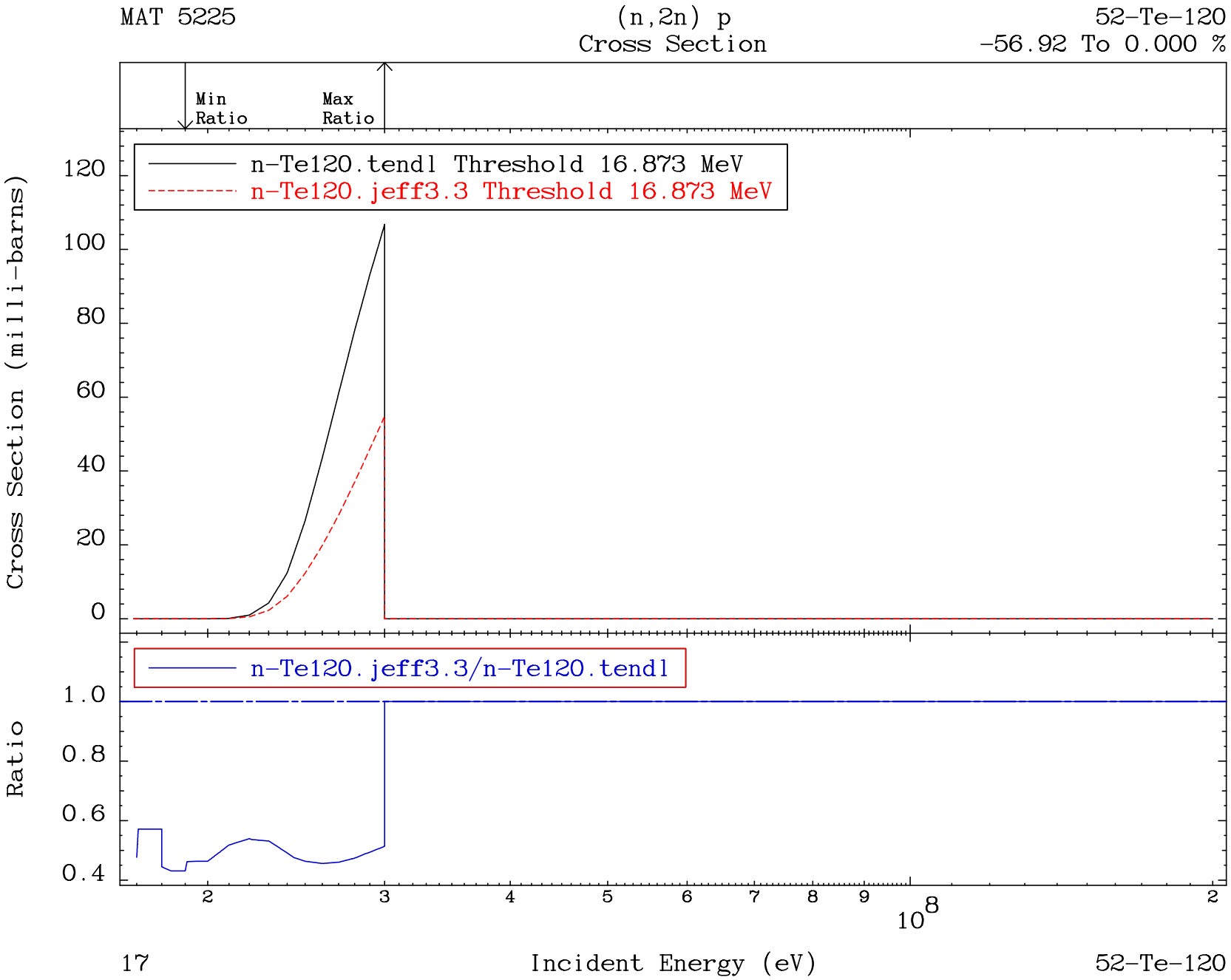

MAT 5225
(n,n') 2α
Cross Section
52-Te-120
-97.79 To 9999. %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 3.6736 MeV
n-Te120.jeff3.3 Threshold 3.6728 MeV
Cross Section (micro-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
10^2
10^0
10^-2
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
12
Incident Energy (eV)
52-Te-120

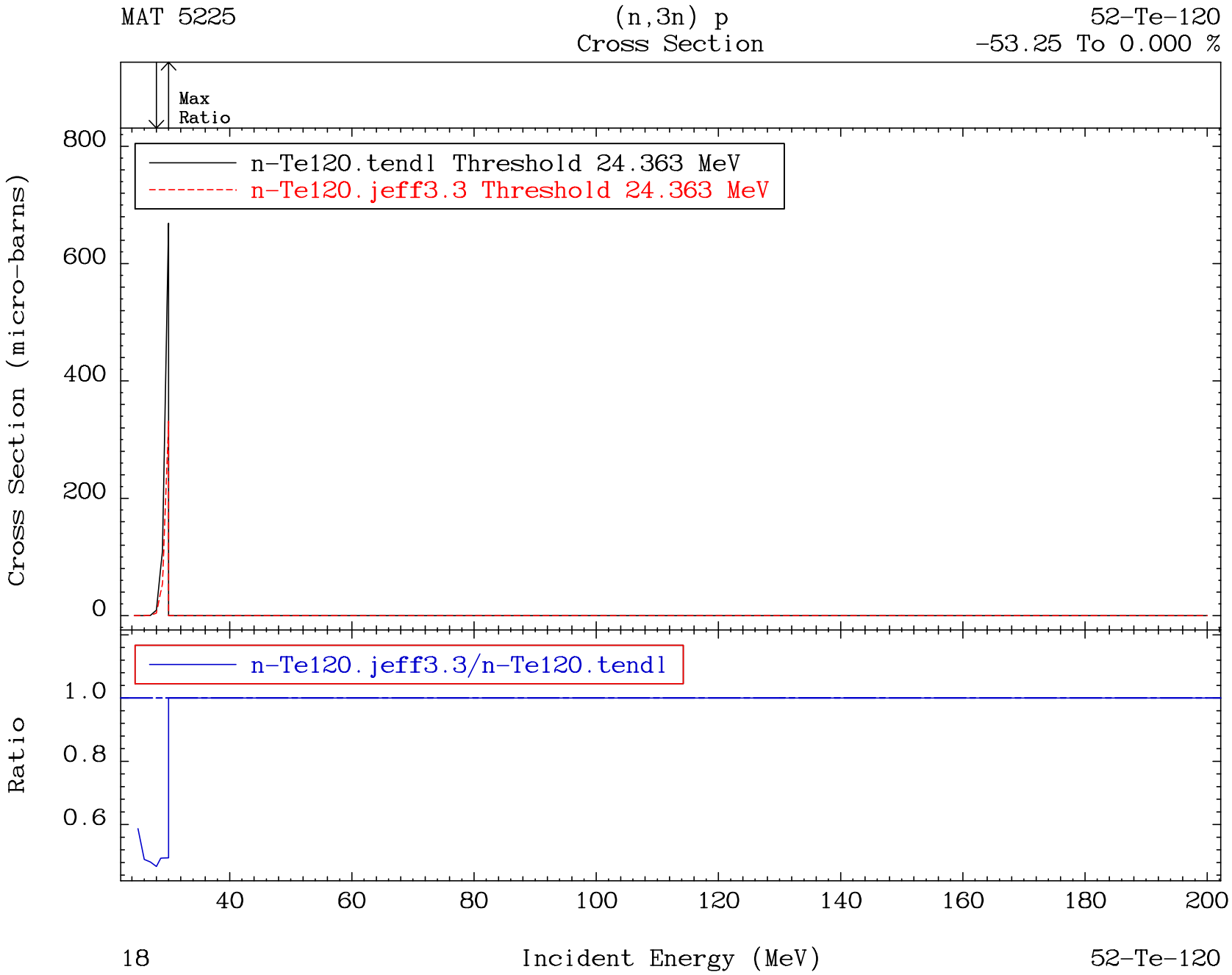

MAT 5225
(n,n') d
Cross Section
52-Te-120
-40.39 To 0.280 %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 14.630 MeV
n-Te120.jeff3.3 Threshold 14.630 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
0.8
0.6
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
52-Te-120

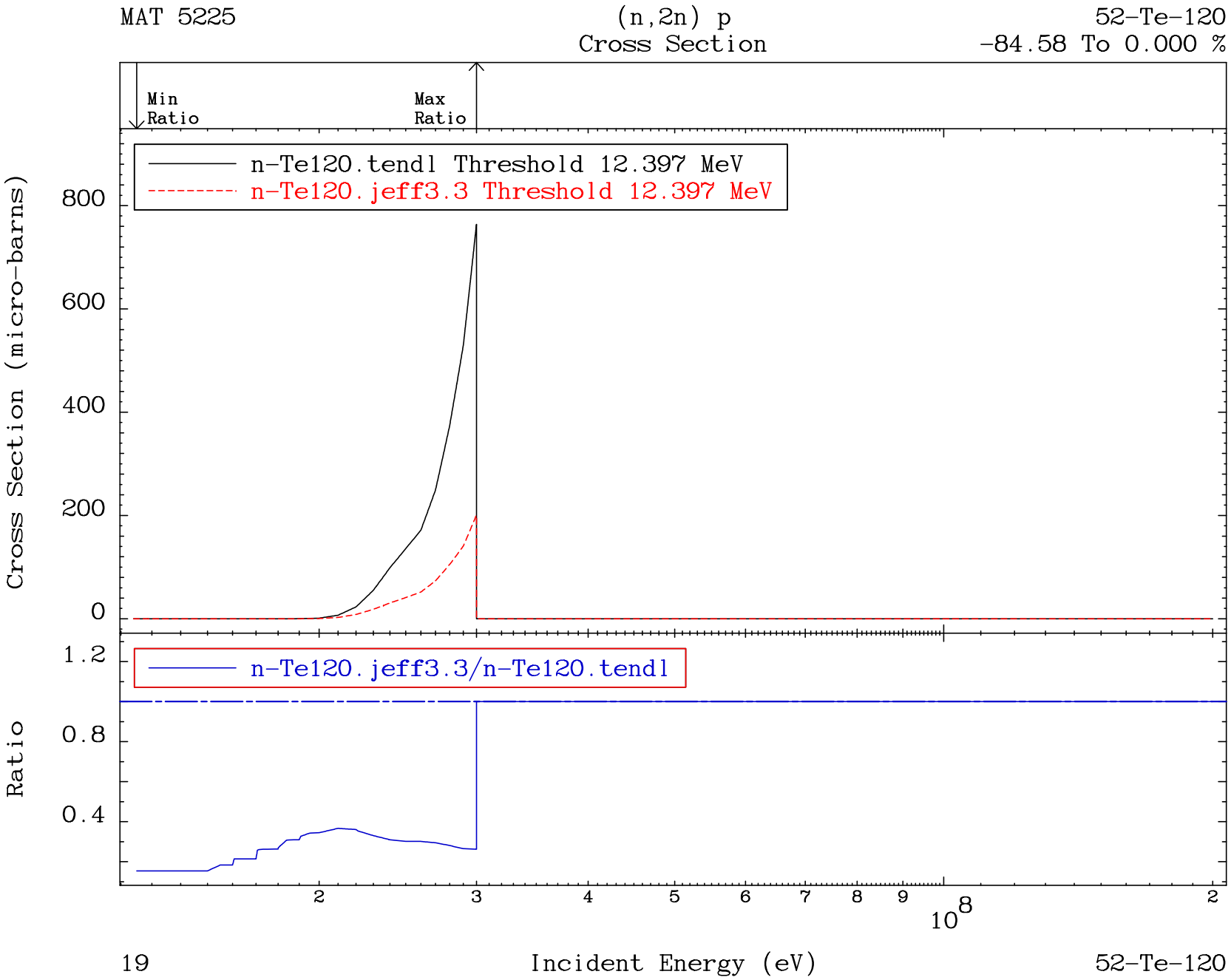

MAT 5225
(n,n') t
Cross Section
52-Te-120
-31.57 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 15.810 MeV
n-Te120.jeff3.3 Threshold 15.810 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Te120.jeff3.3/n-Te120.tendl
Ratio
0.7
0.8
0.9
1.0
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
52-Te-120

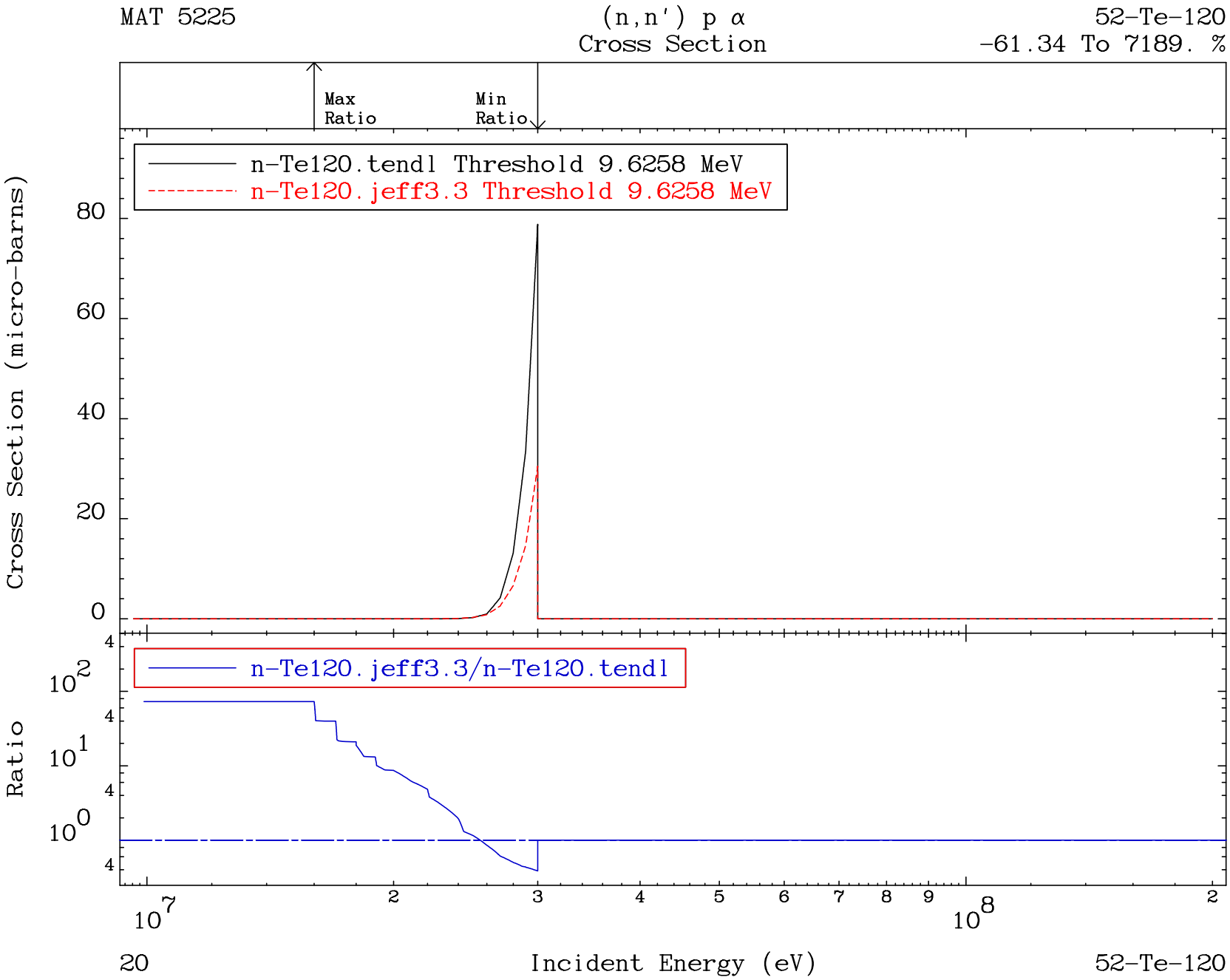

MAT 5225
(n,n') He-3
Cross Section
52-Te-120
-55.24 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 14.018 MeV
n-Te120.jeff3.3 Threshold 14.018 MeV
Cross Section (micro-barns)
800
600
400
200
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
0.8
0.6
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
52-Te-120

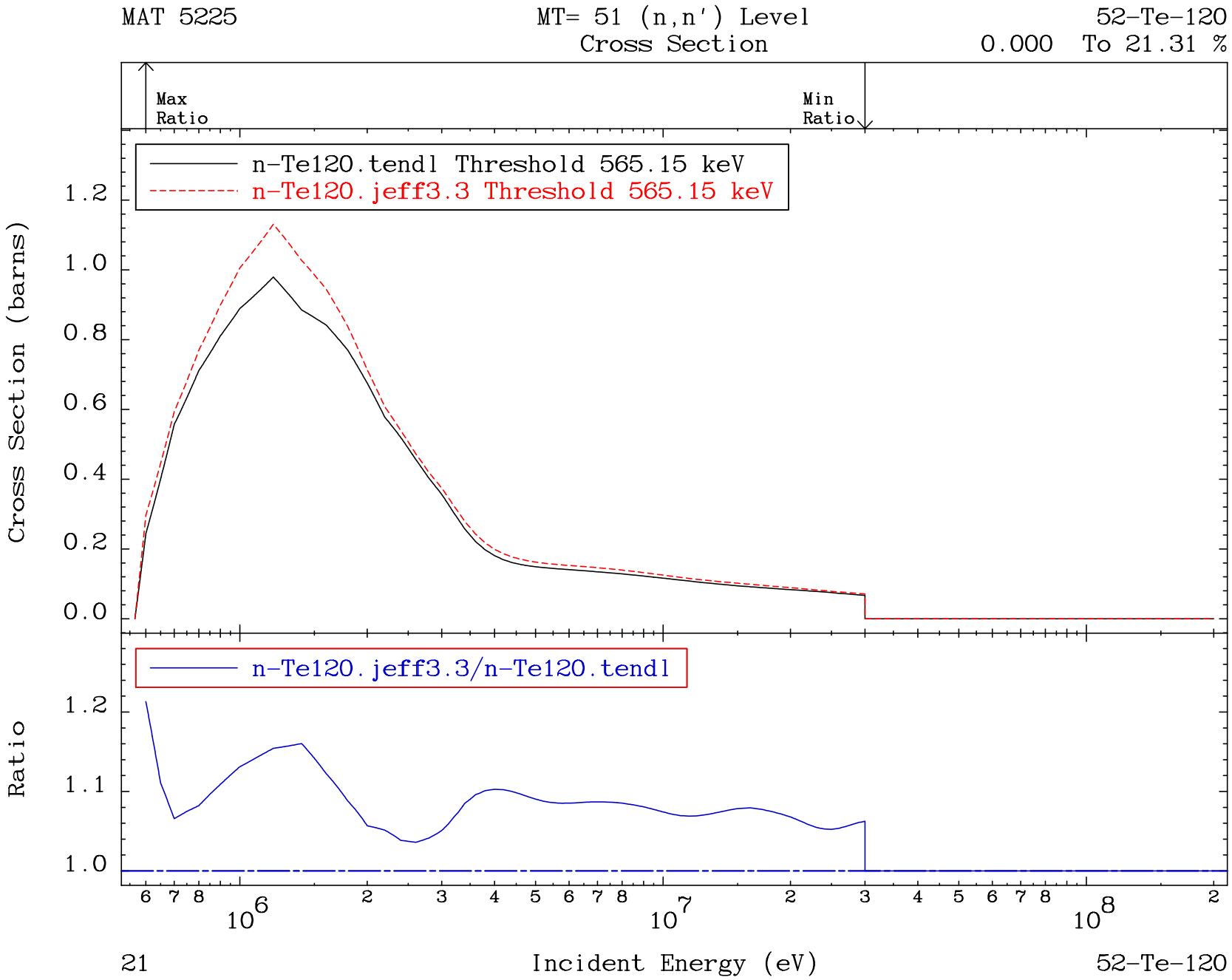

MAT 5225
(n,4n)
Cross Section
52-Te-120
-31.54 To 0.000 %
Max
Ratio
n-Te120.tendl Threshold 28.726 MeV
n-Te120.jeff3.3 Threshold 28.726 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
0.9
0.8
0.7
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
52-Te-120

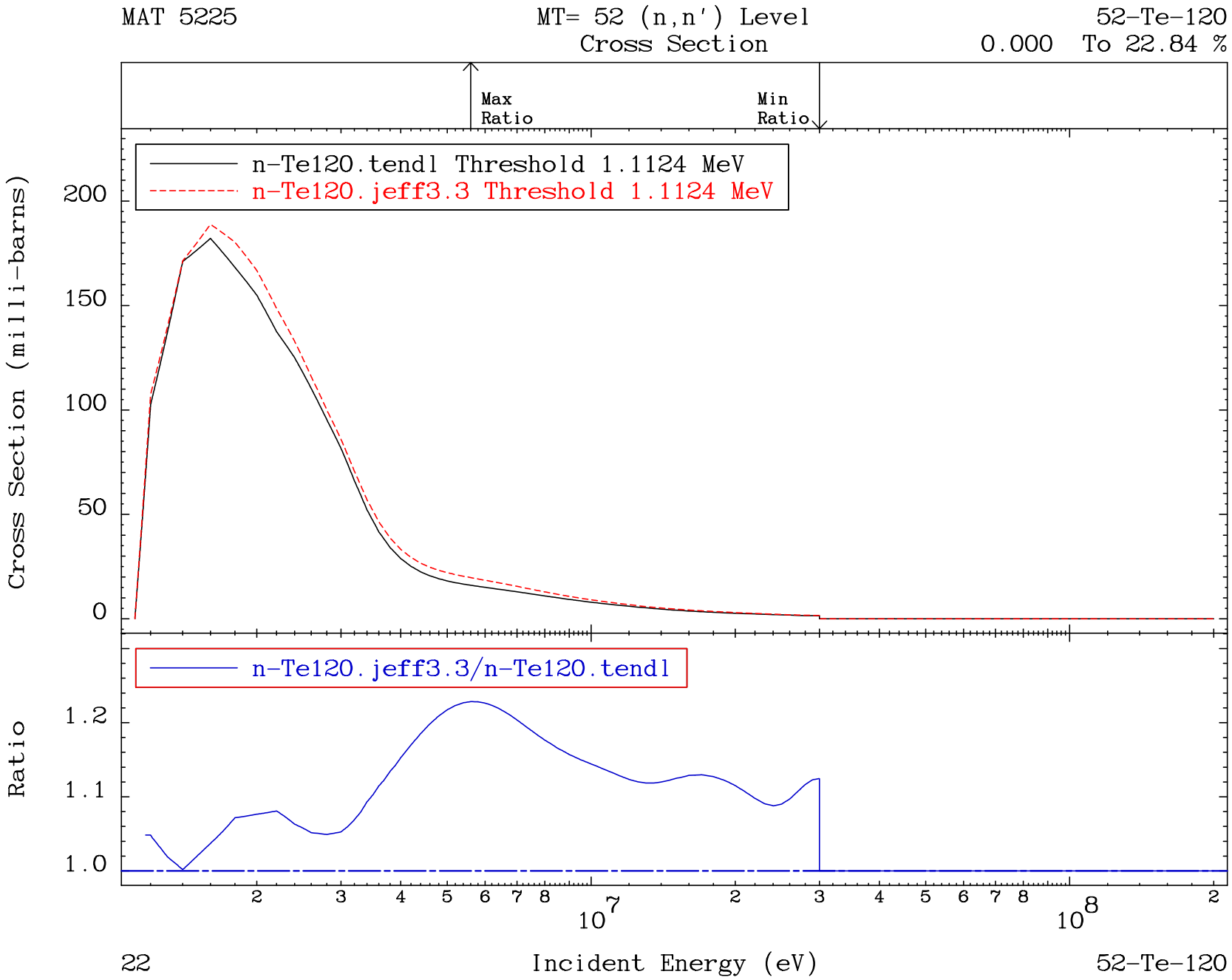

MAT 5225
(n,2n) p
Cross Section
52-Te-120
-56.92 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 16.873 MeV
n-Te120.jeff3.3 Threshold 16.873 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
0.8
0.6
0.4
2
3
4
5
6
7
8
9
10^8
2
17
Incident Energy (eV)
52-Te-120

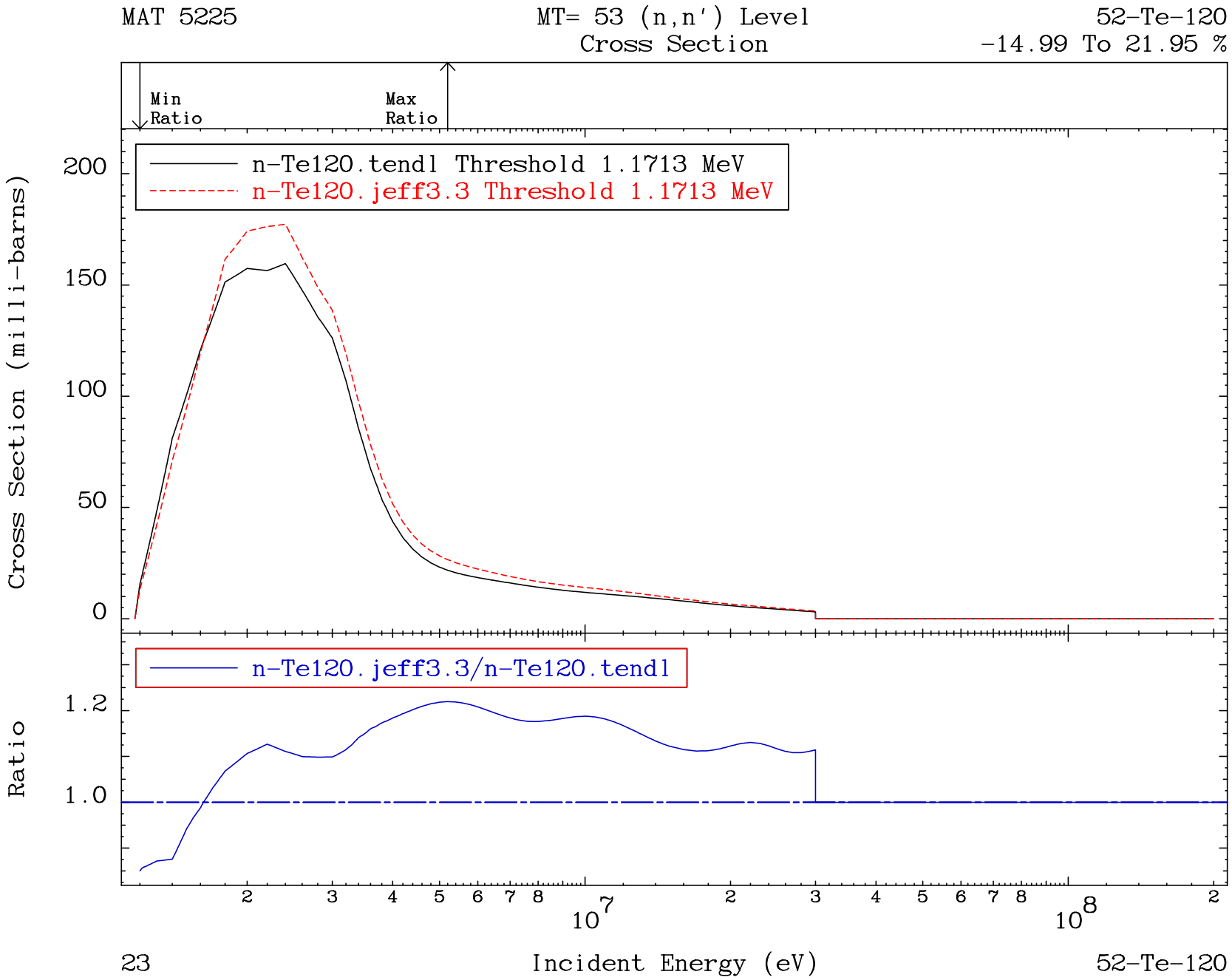

MAT 5225
(n,3n) p
Cross Section
52-Te-120
-53.25 To 0.000 %
Max
Ratio
n-Te120.tendl Threshold 24.363 MeV
n-Te120.jeff3.3 Threshold 24.363 MeV
Cross Section (micro-barns)
800
600
400
200
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
0.8
0.6
40
60
80
100
120
140
160
180
200
18
Incident Energy (MeV)
52-Te-120

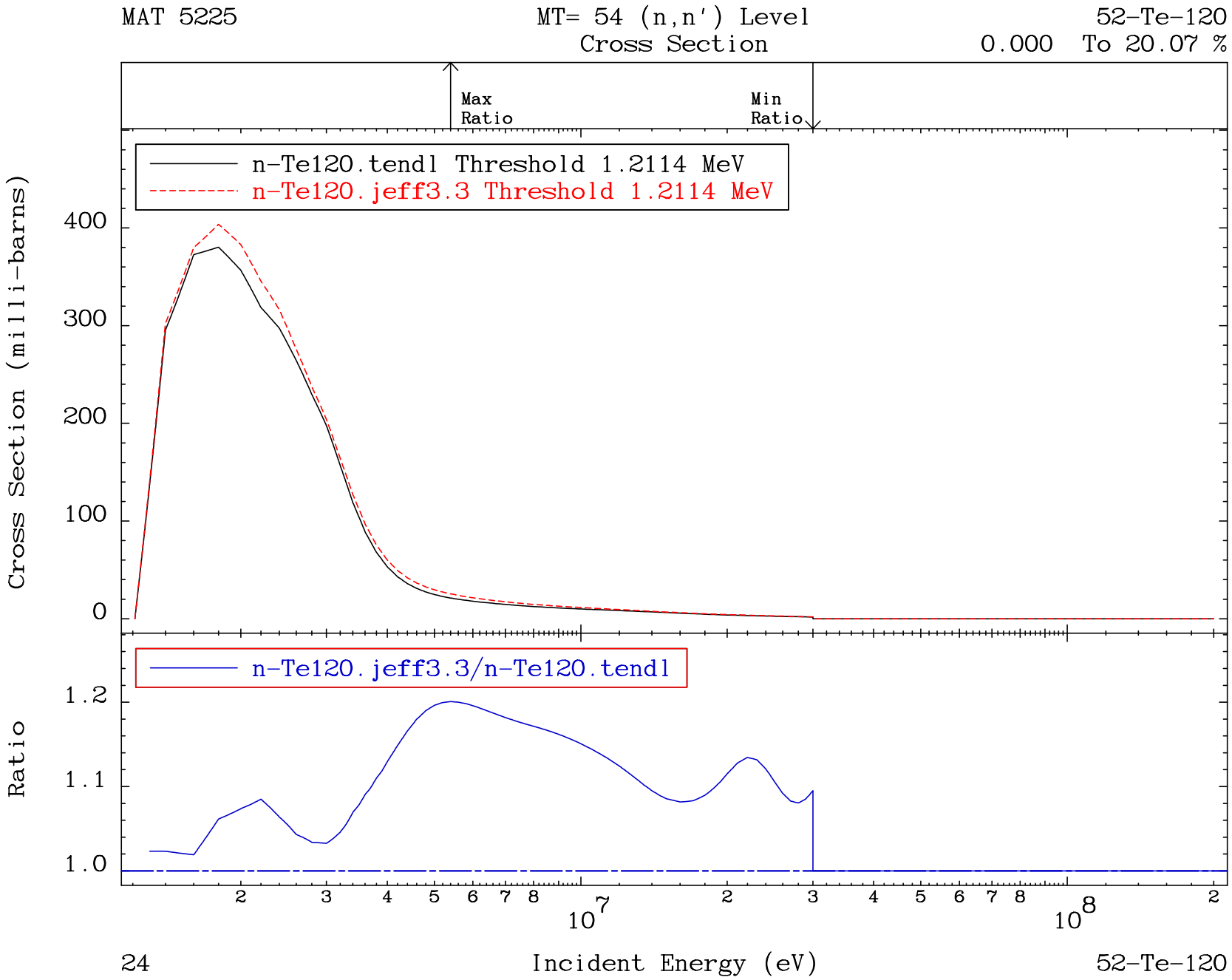

MAT 5225
(n,2n) p
Cross Section
52-Te-120
-84.58 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 12.397 MeV
n-Te120.jeff3.3 Threshold 12.397 MeV
Cross Section (micro-barns)
800
600
400
200
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
52-Te-120

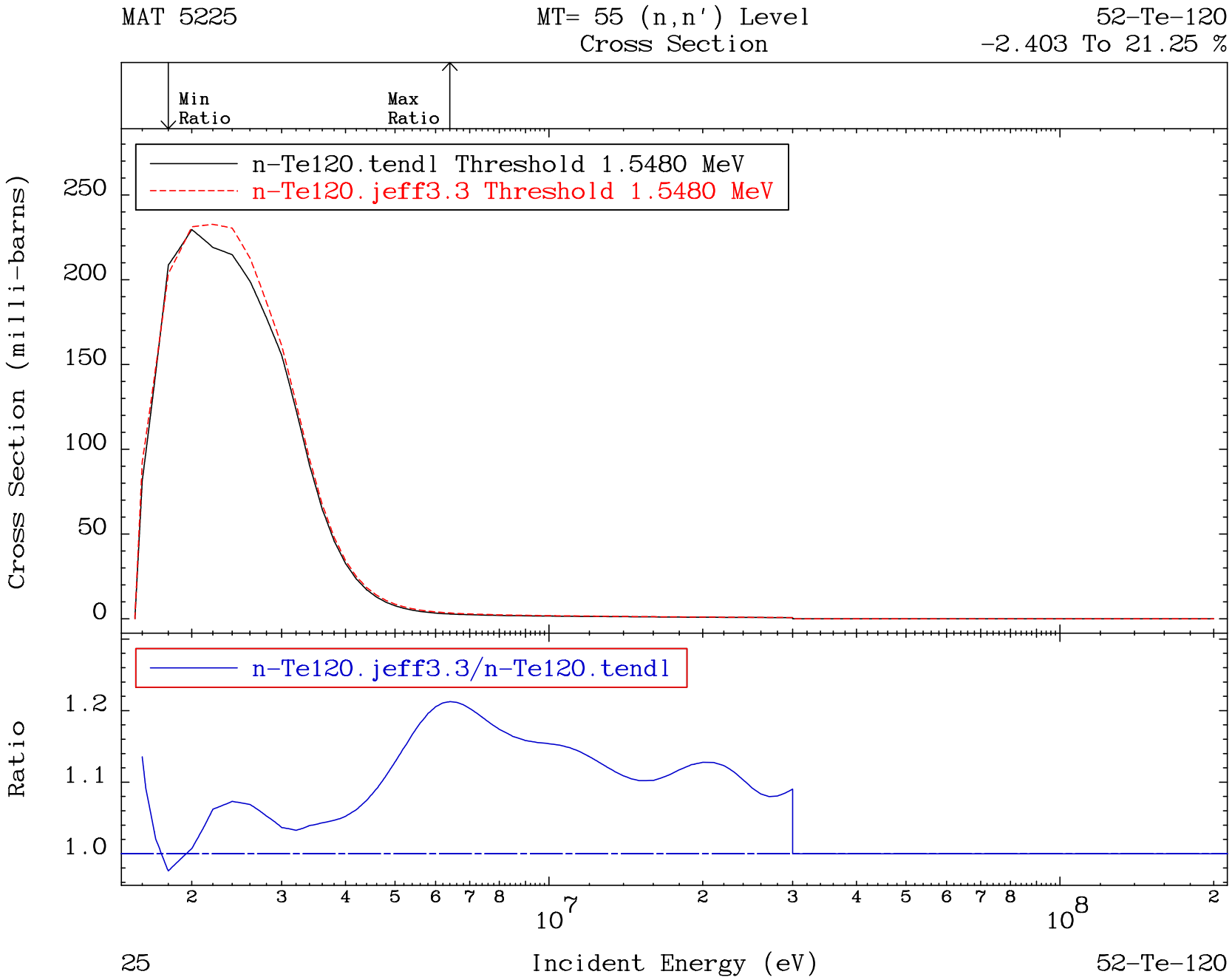

MAT 5225
(n,n') p α
Cross Section
52-Te-120
-61.34 To 7189. %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 9.6258 MeV
n-Te120.jeff3.3 Threshold 9.6258 MeV
Cross Section (micro-barns)
80
60
40
20
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
10^2
10^1
10^0
10^7
10^8
Incident Energy (eV)
20
52-Te-120

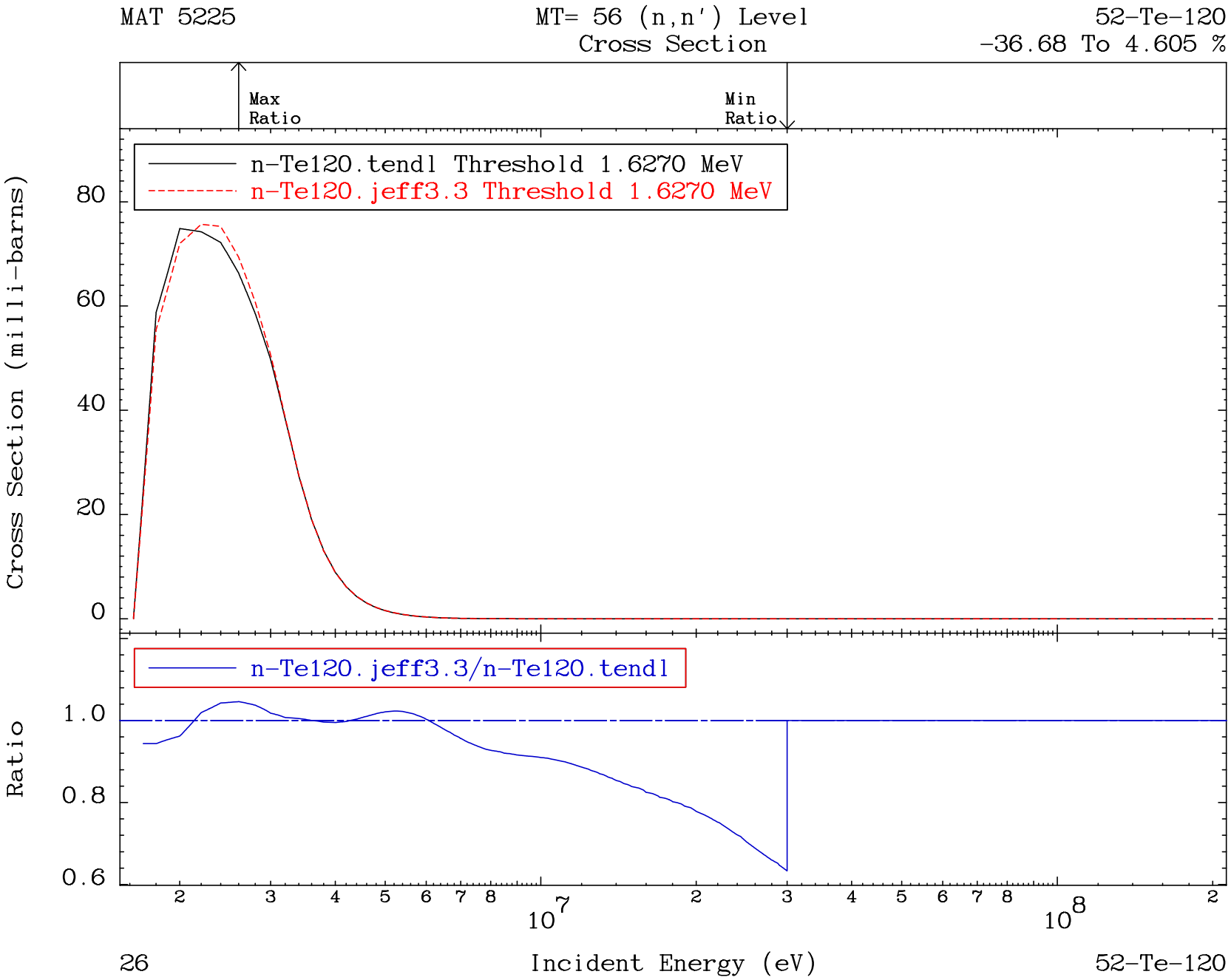

MAT 5225
MT= 51 (n,n') Level
Cross Section
52-Te-120
0.000 To 21.31 %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 565.15 keV
n-Te120.jeff3.3 Threshold 565.15 keV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
1.1
1.0
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
52-Te-120

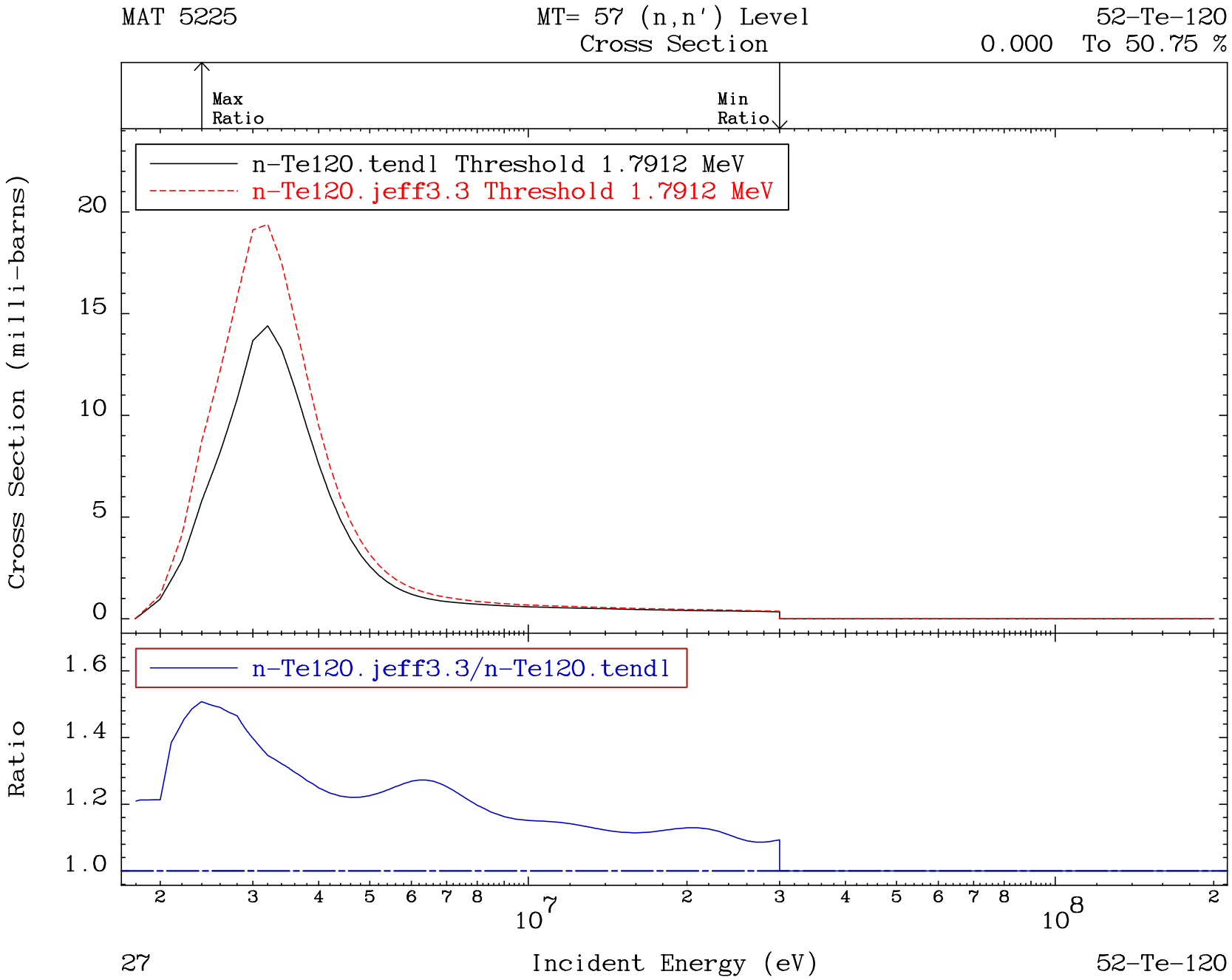

MAT 5225
MT= 52 (n,n') Level
Cross Section
52-Te-120
0.000 To 22.84 %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 1.1124 MeV
n-Te120.jeff3.3 Threshold 1.1124 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
1.1
1.0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
52-Te-120

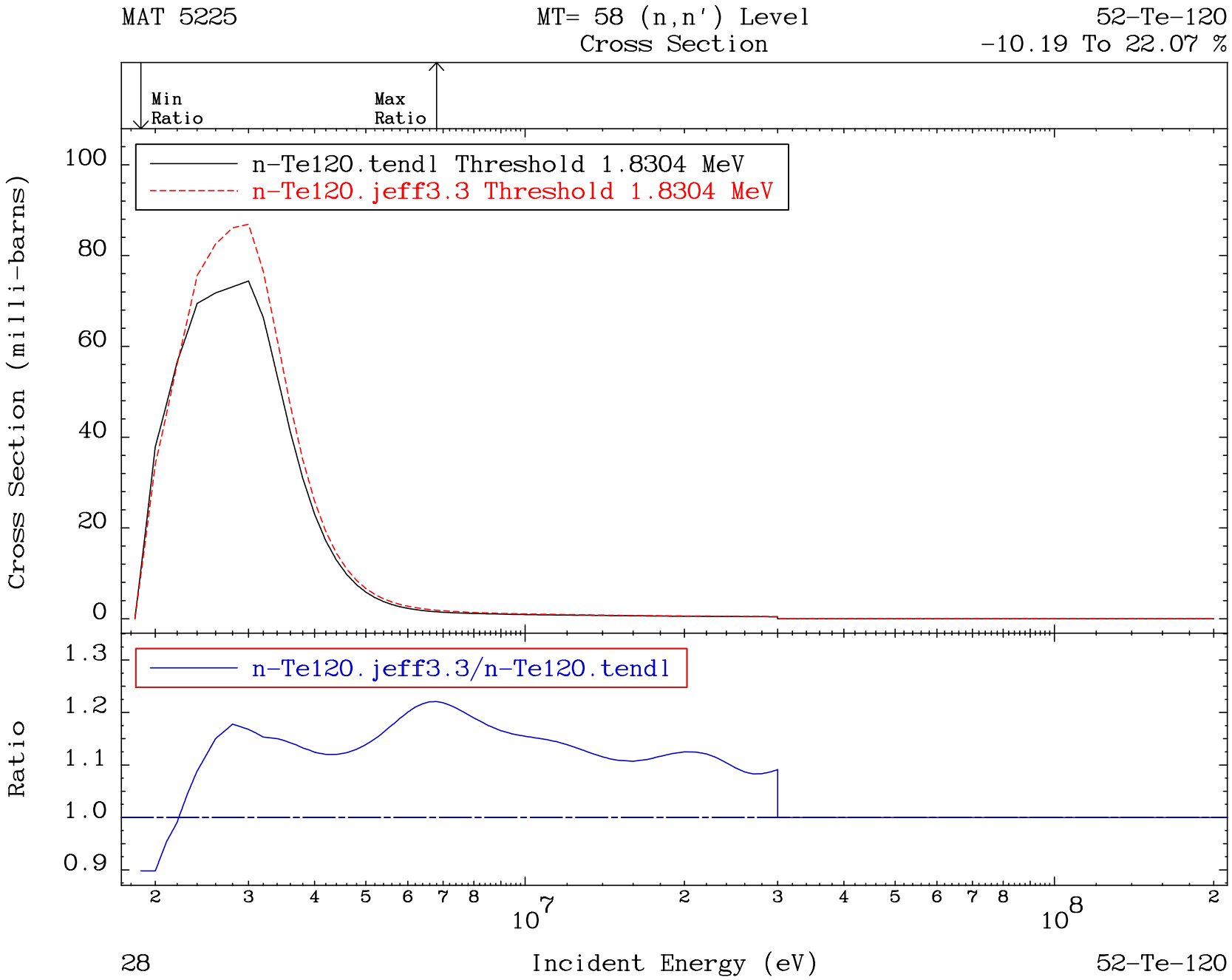

MAT 5225
MT= 53 (n,n') Level
Cross Section
52-Te-120
-14.99 To 21.95 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 1.1713 MeV
n-Te120.jeff3.3 Threshold 1.1713 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
1.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
52-Te-120

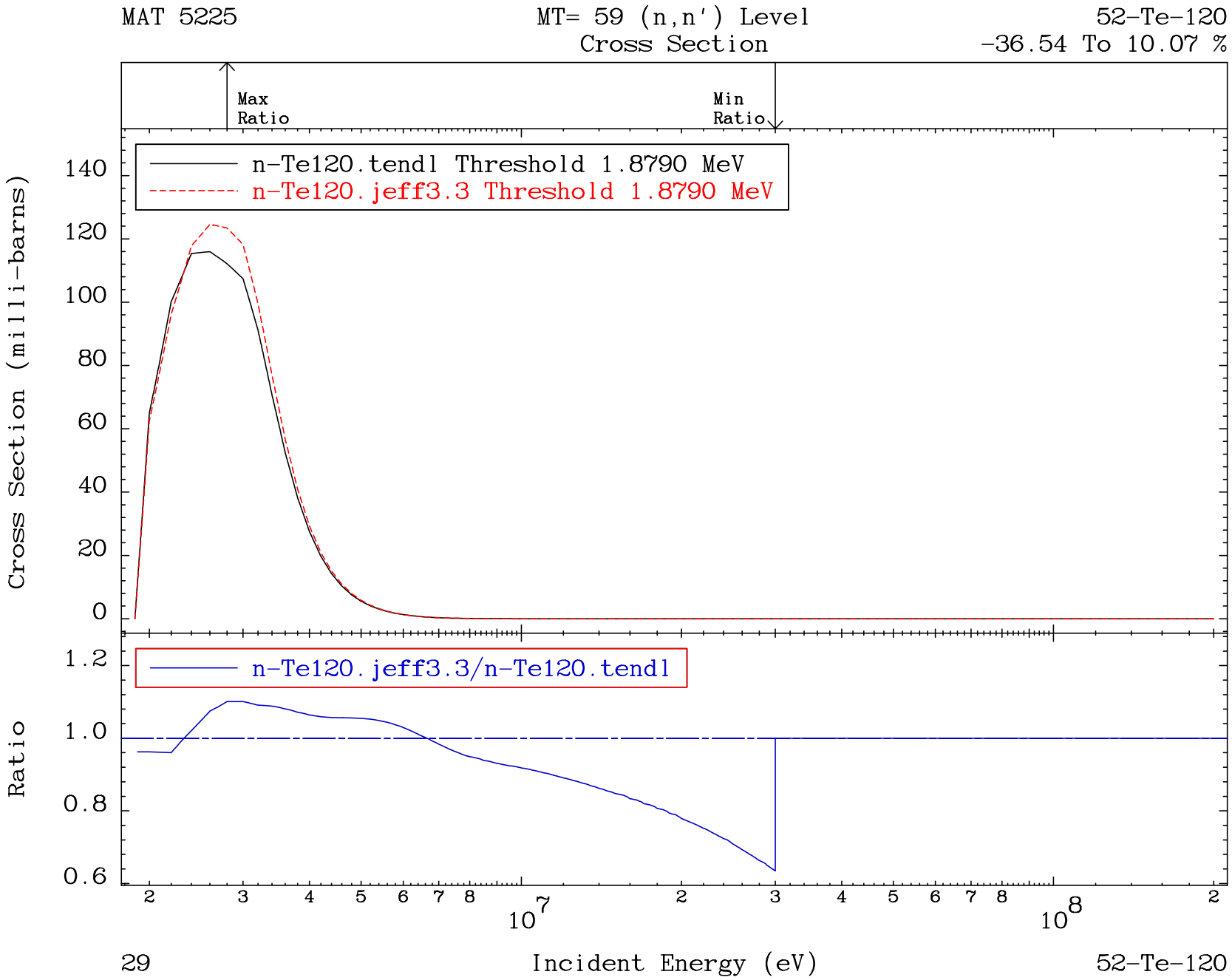

MAT 5225
MT= 54 (n,n') Level
Cross Section
52-Te-120
0.000 To 20.07 %
Max
Ratio
Min
Ratio
n-Te120.tendl Threshold 1.2114 MeV
n-Te120.jeff3.3 Threshold 1.2114 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
1.1
1.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
52-Te-120

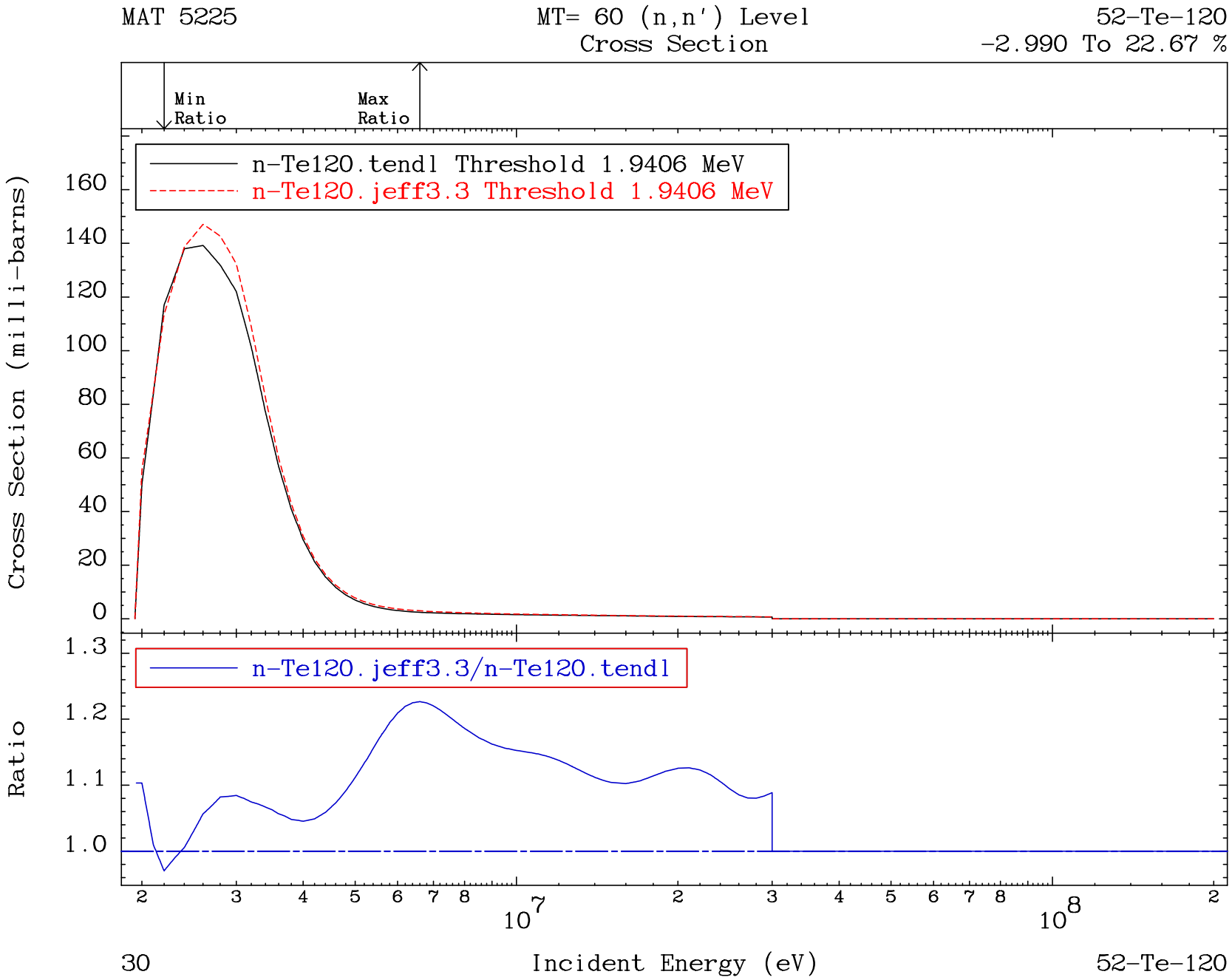

MAT 5225
MT= 55 (n,n') Level
Cross Section
52-Te-120
-2.403 To 21.25 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 1.5480 MeV
n-Te120.jeff3.3 Threshold 1.5480 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
1.1
1.0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
25
Incident Energy (eV)
52-Te-120

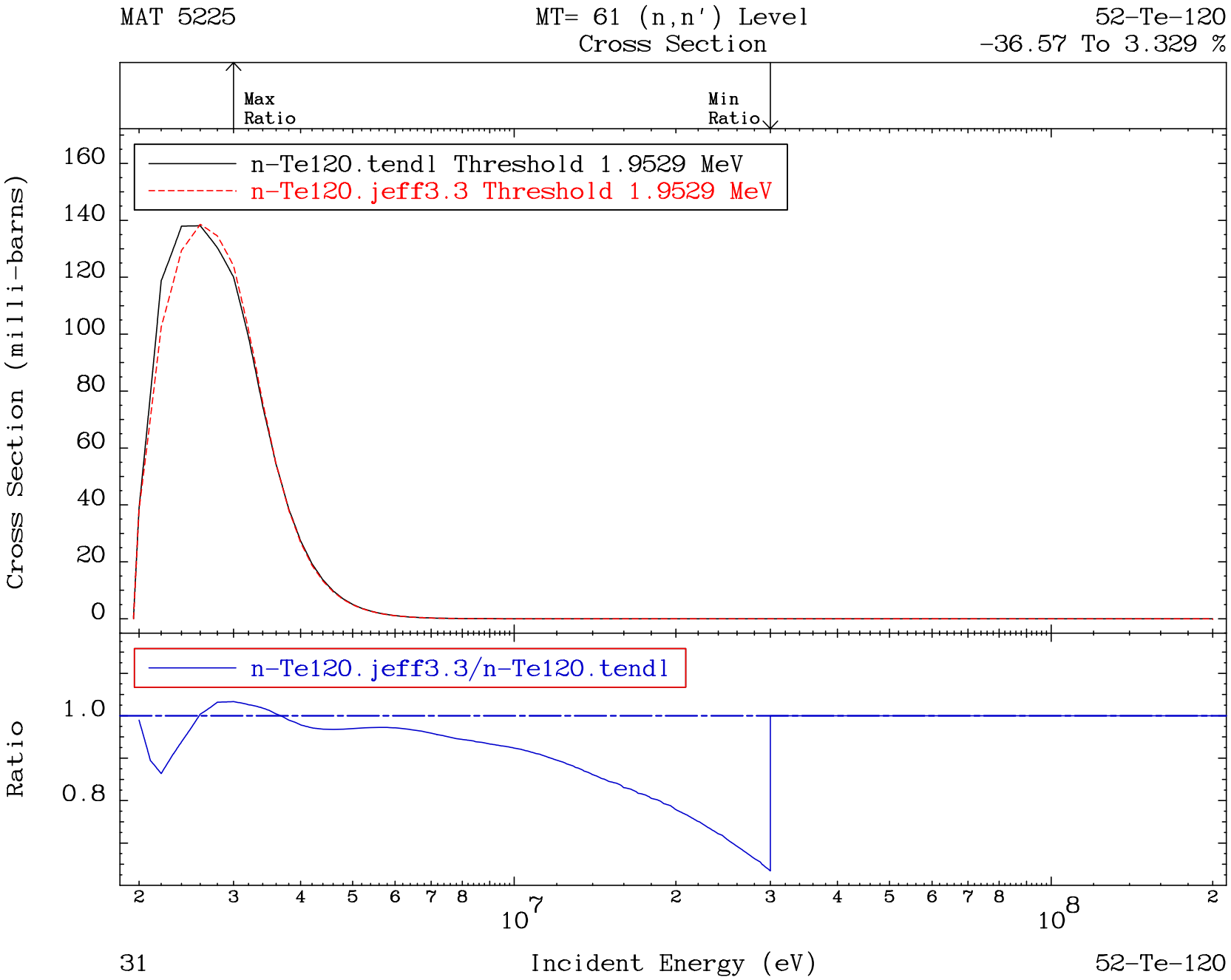

MAT 5225
MT= 56 (n,n') Level
Cross Section
52-Te-120
-36.68 To 4.605 %
Max
Ratio
Min
Ratio
n-Te120.tendl Threshold 1.6270 MeV
n-Te120.jeff3.3 Threshold 1.6270 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
0.8
0.6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
26
Incident Energy (eV)
52-Te-120

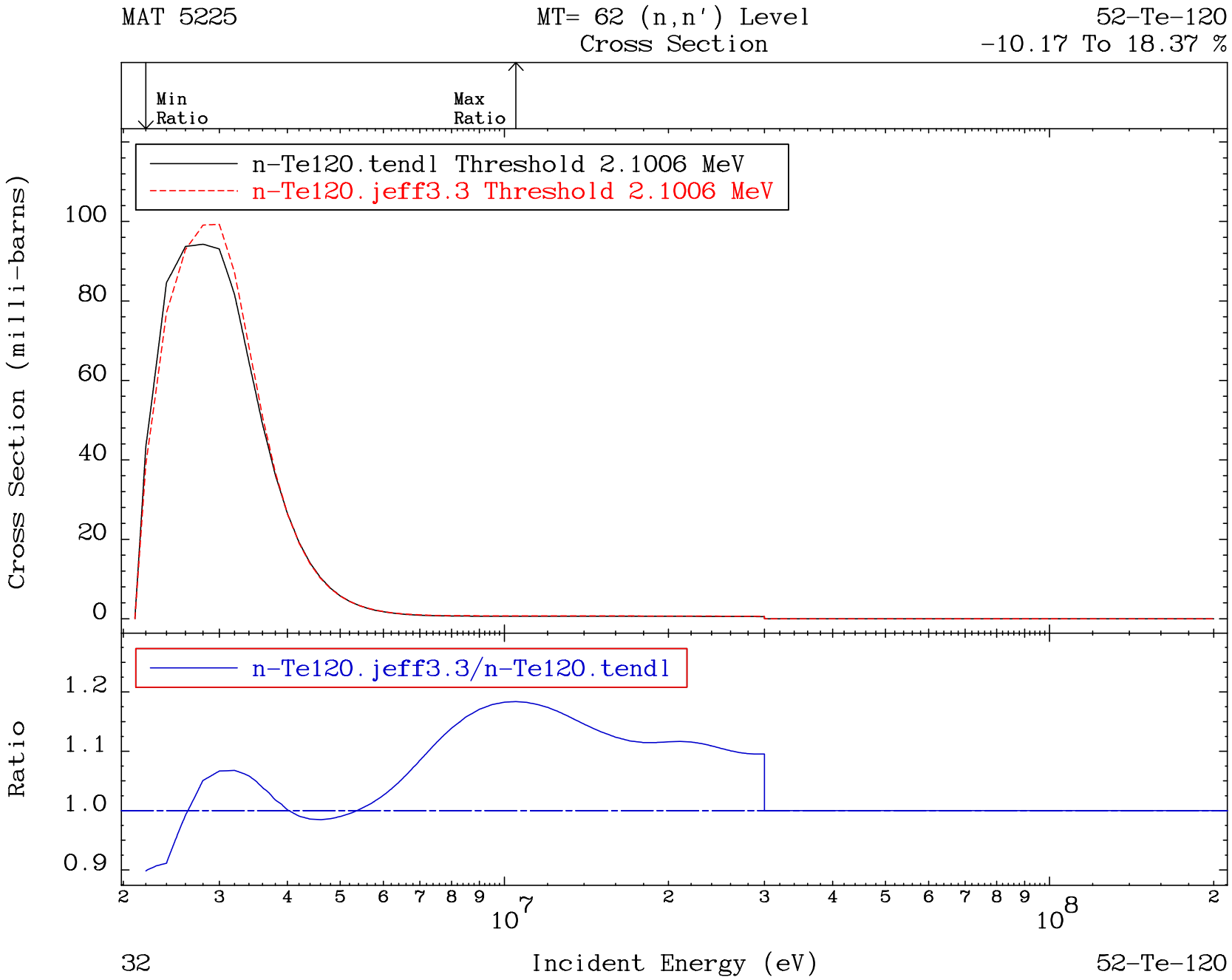

MAT 5225
MT= 57 (n,n') Level
Cross Section
52-Te-120
0.000 To 50.75 %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 1.7912 MeV
n-Te120.jeff3.3 Threshold 1.7912 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.6
1.4
1.2
1.0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
52-Te-120

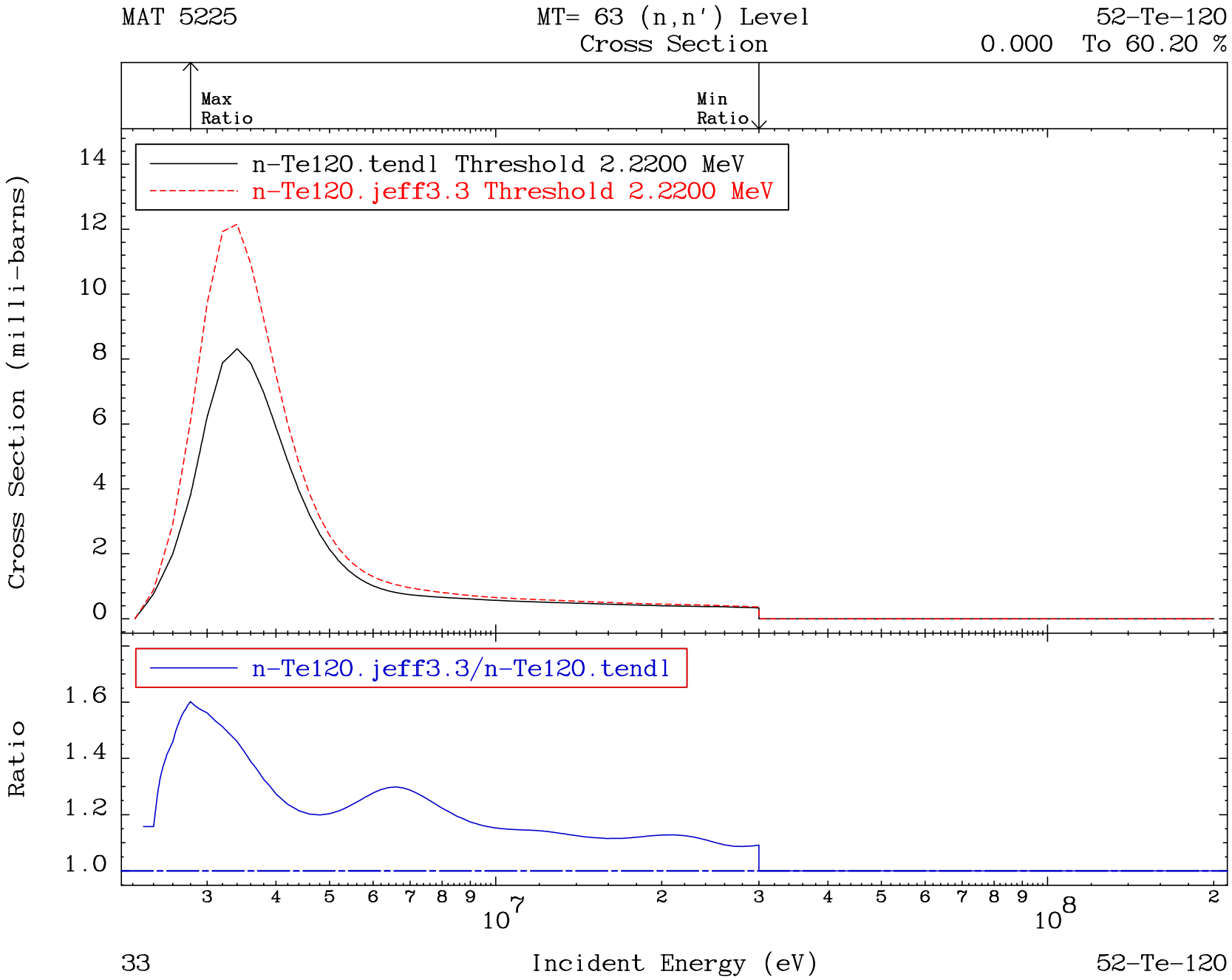

MAT 5225
MT= 58 (n,n') Level
Cross Section
52-Te-120
-10.19 To 22.07 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 1.8304 MeV
n-Te120.jeff3.3 Threshold 1.8304 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.3
1.2
1.1
1.0
0.9
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
28
Incident Energy (eV)
52-Te-120

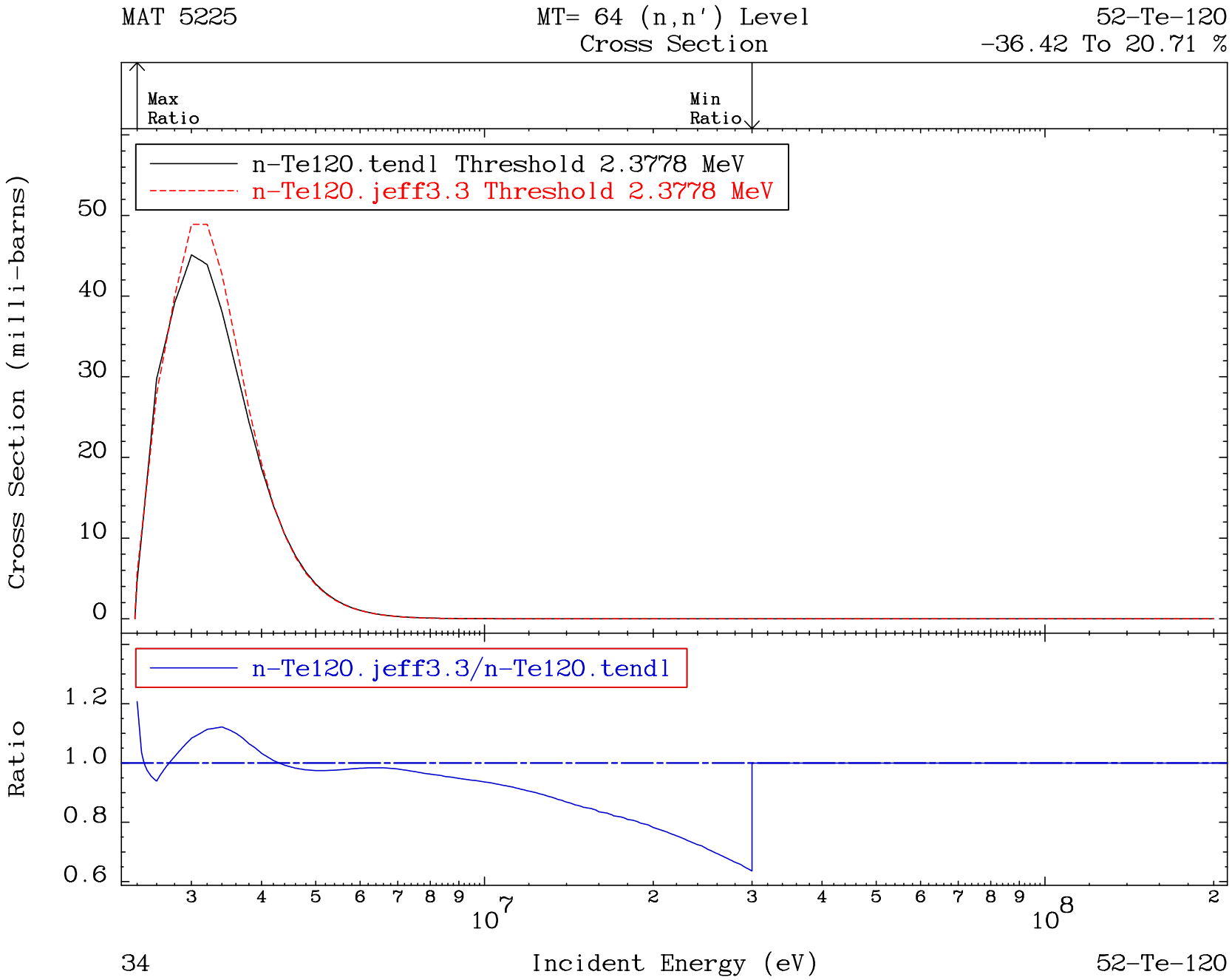

MAT 5225
MT= 59 (n,n') Level
Cross Section
52-Te-120
-36.54 To 10.07 %
Max
Ratio
Min
Ratio
n-Te120.tendl Threshold 1.8790 MeV
n-Te120.jeff3.3 Threshold 1.8790 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
1.0
0.8
0.6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
29
Incident Energy (eV)
52-Te-120

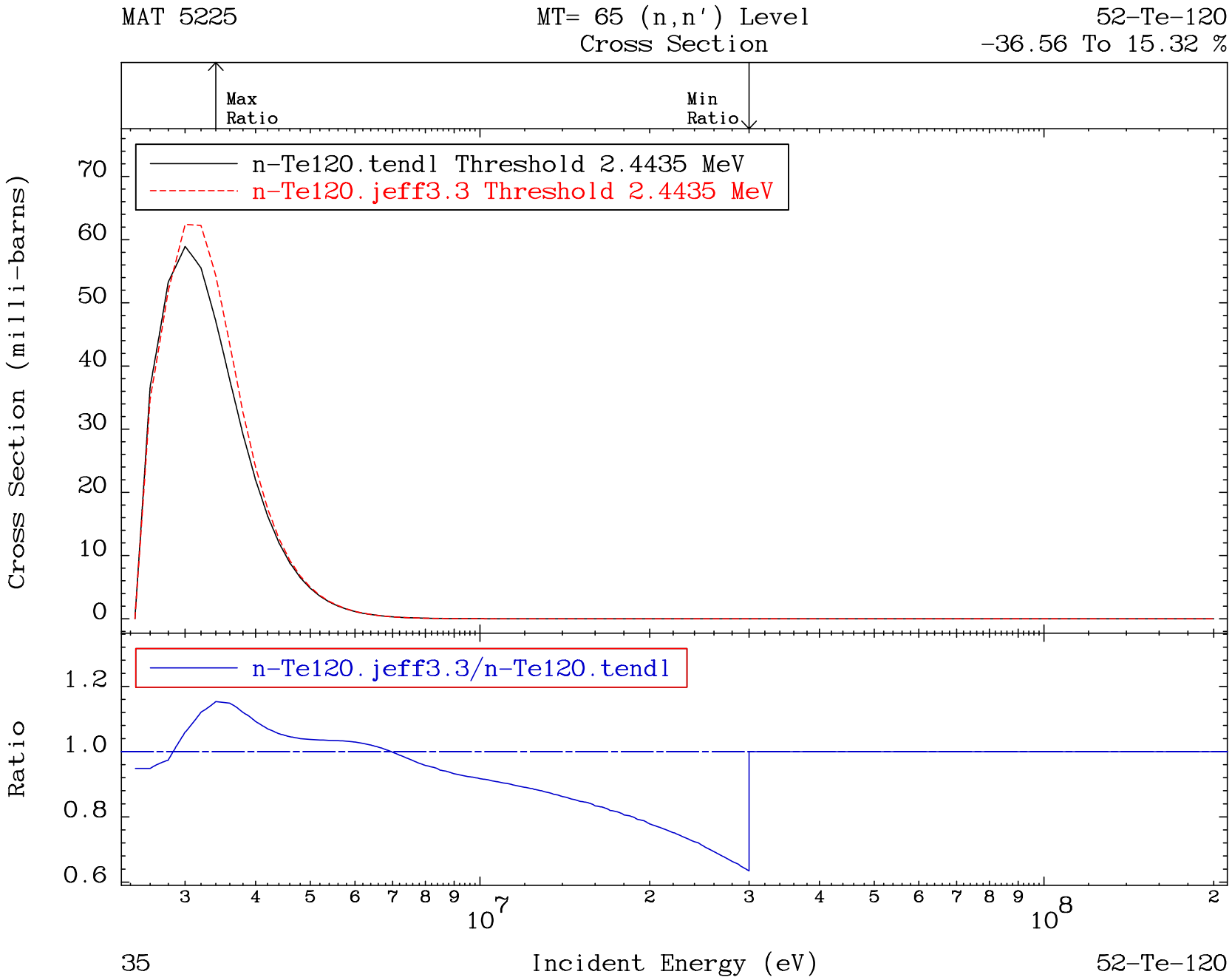

MAT 5225
MT= 60 (n,n') Level
Cross Section
52-Te-120
-2.990 To 22.67 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 1.9406 MeV
n-Te120.jeff3.3 Threshold 1.9406 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.3
1.2
1.1
1.0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
52-Te-120

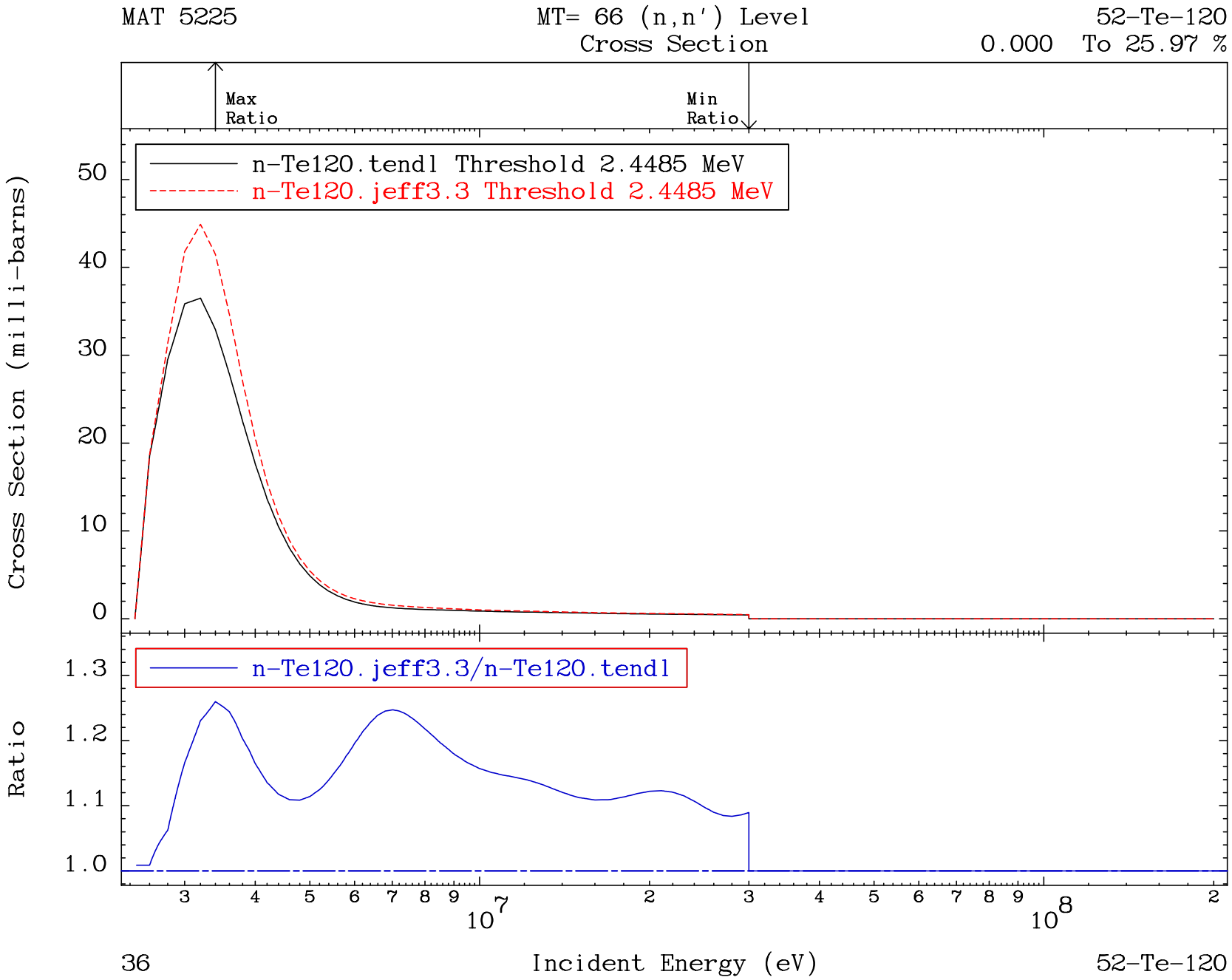

MAT 5225
MT= 61 (n,n') Level
Cross Section
52-Te-120
-36.57 To 3.329 %
Max
Ratio
Min
Ratio
n-Te120.tendl Threshold 1.9529 MeV
n-Te120.jeff3.3 Threshold 1.9529 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
0.8
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
31
Incident Energy (eV)
52-Te-120

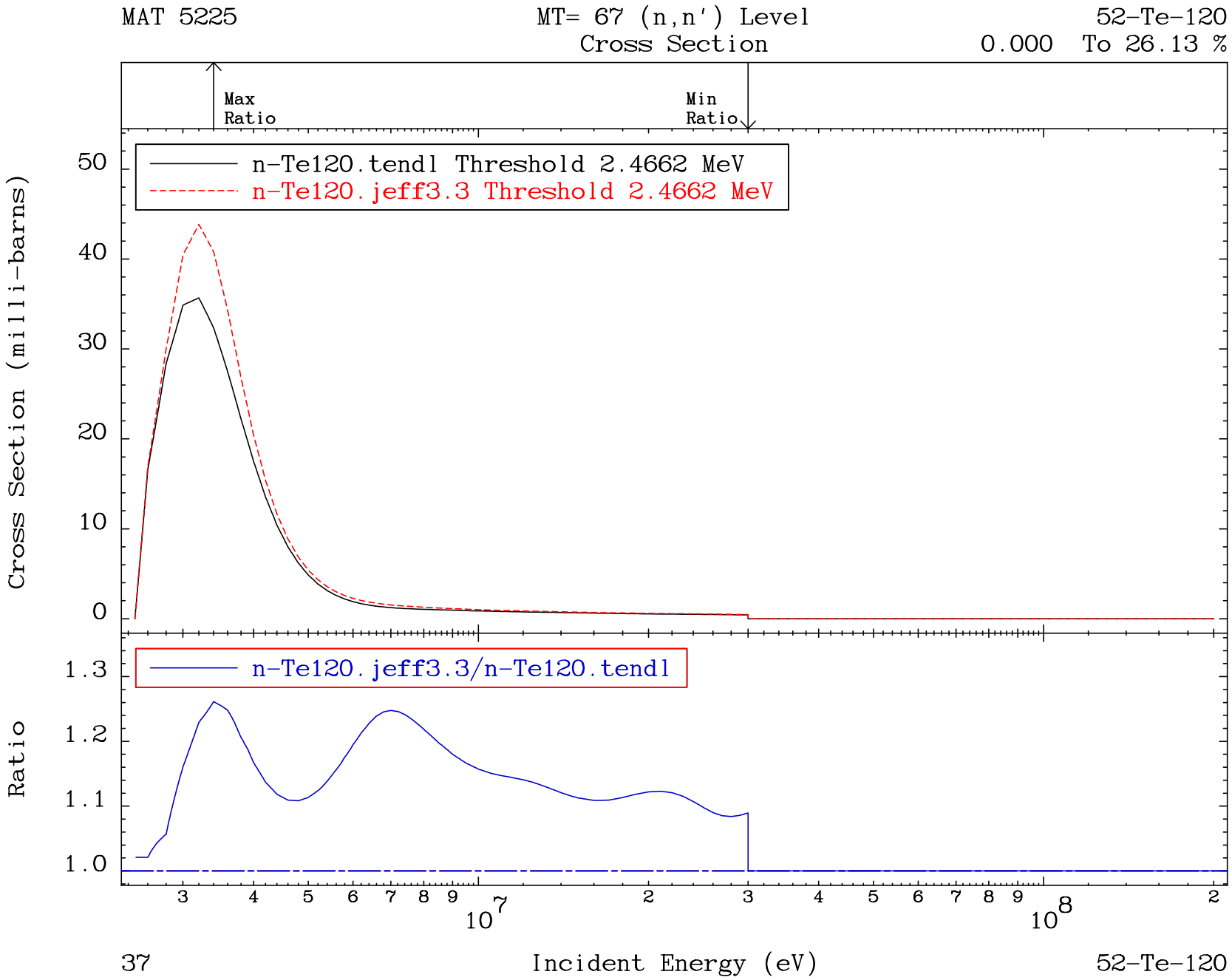

MAT 5225
MT= 62 (n,n') Level
Cross Section
52-Te-120
-10.17 To 18.37 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 2.1006 MeV
n-Te120.jeff3.3 Threshold 2.1006 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
1.1
1.0
0.9
2 3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
52-Te-120

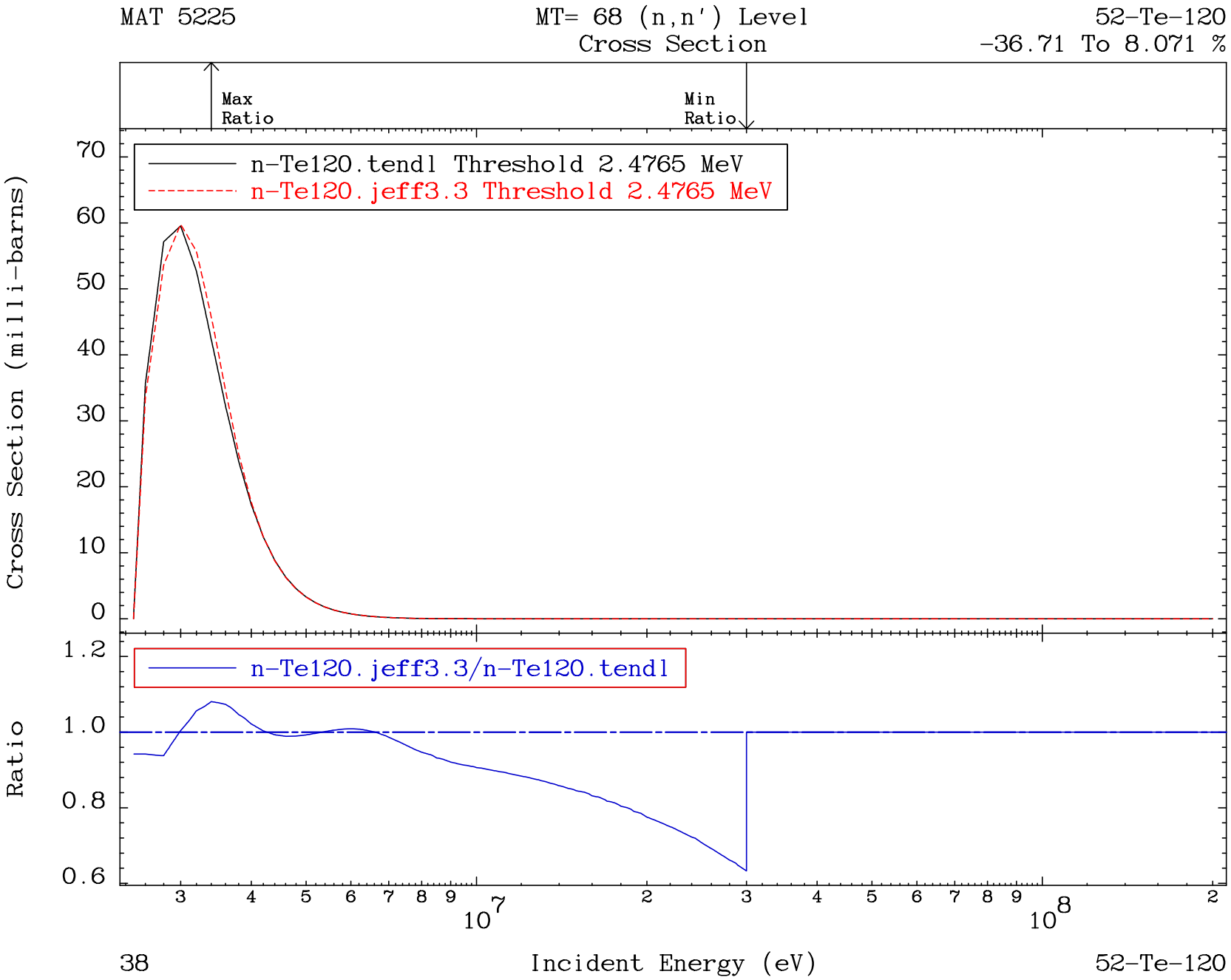

MAT 5225
MT= 63 (n,n') Level
Cross Section
52-Te-120
0.000 To 60.20 %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 2.2200 MeV
n-Te120.jeff3.3 Threshold 2.2200 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
1.2
1.4
1.6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
33
52-Te-120

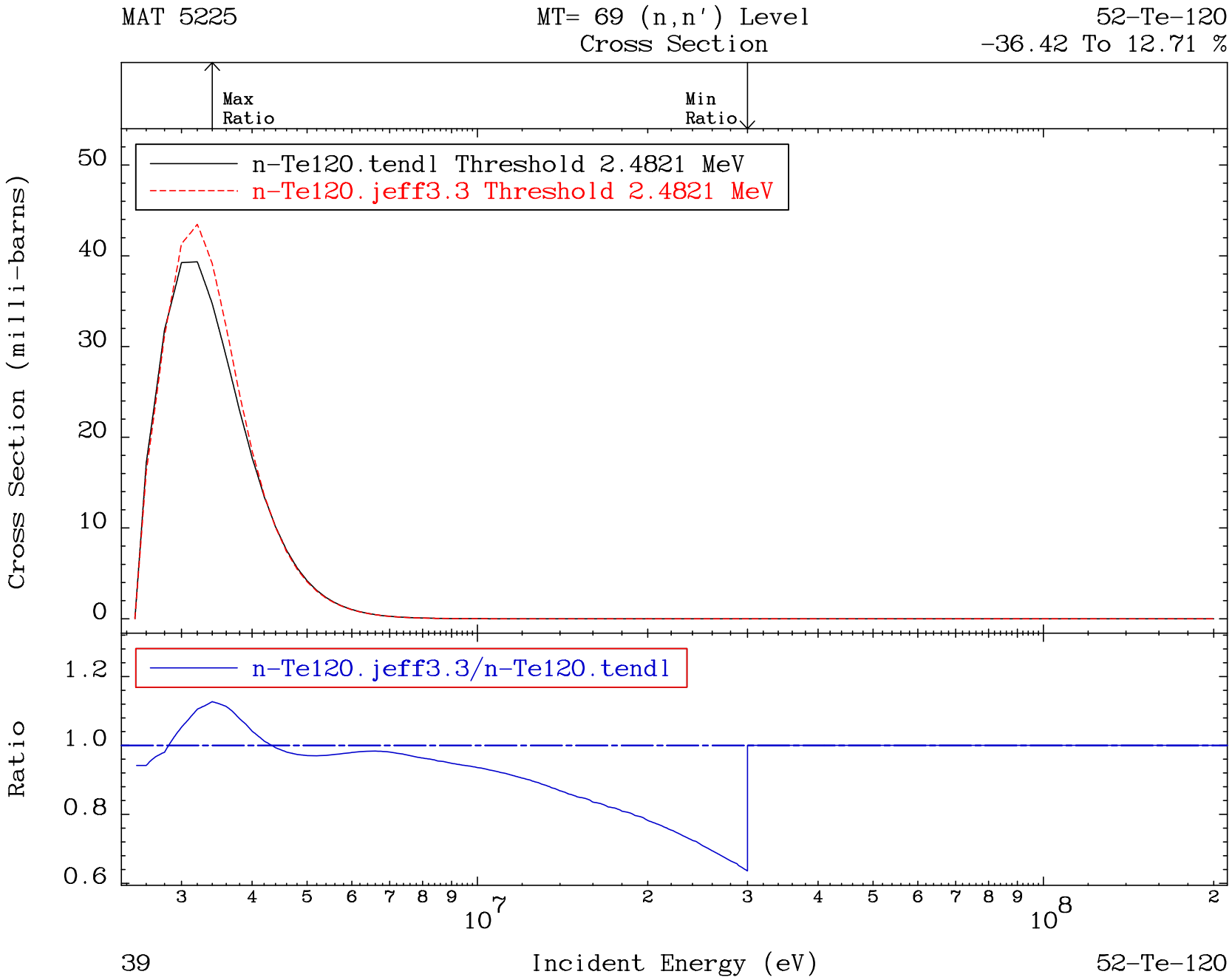

MAT 5225
MT= 64 (n,n') Level
Cross Section
52-Te-120
-36.42 To 20.71 %
Max
Ratio
Min
Ratio
n-Te120.tendl Threshold 2.3778 MeV
n-Te120.jeff3.3 Threshold 2.3778 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
1.0
0.8
0.6
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
34
Incident Energy (eV)
52-Te-120

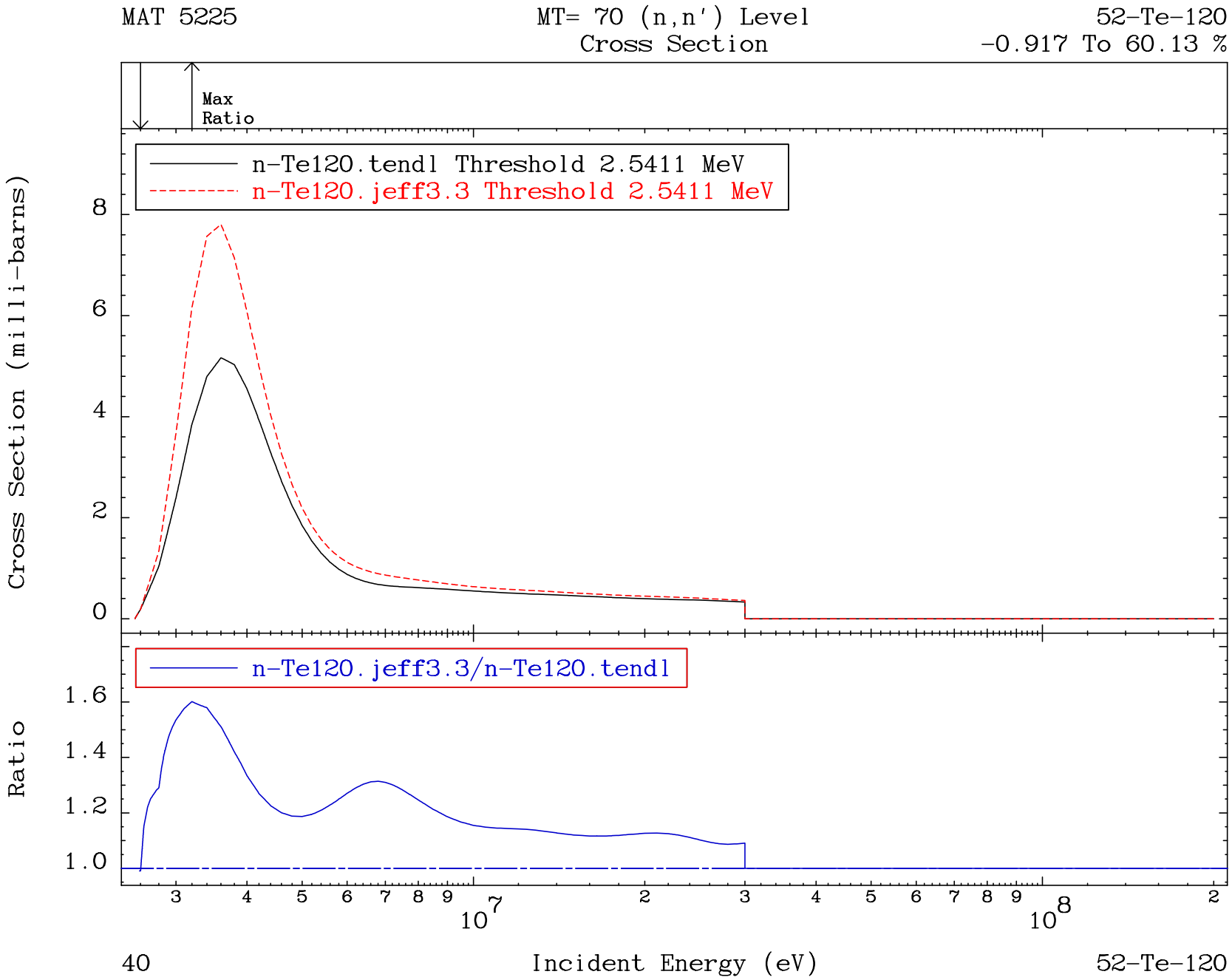

MAT 5225
MT= 65 (n,n') Level
Cross Section
52-Te-120
-36.56 To 15.32 %
Max
Ratio
Min
Ratio
n-Te120.tendl Threshold 2.4435 MeV
n-Te120.jeff3.3 Threshold 2.4435 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
1.0
0.8
0.6
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
35
Incident Energy (eV)
52-Te-120

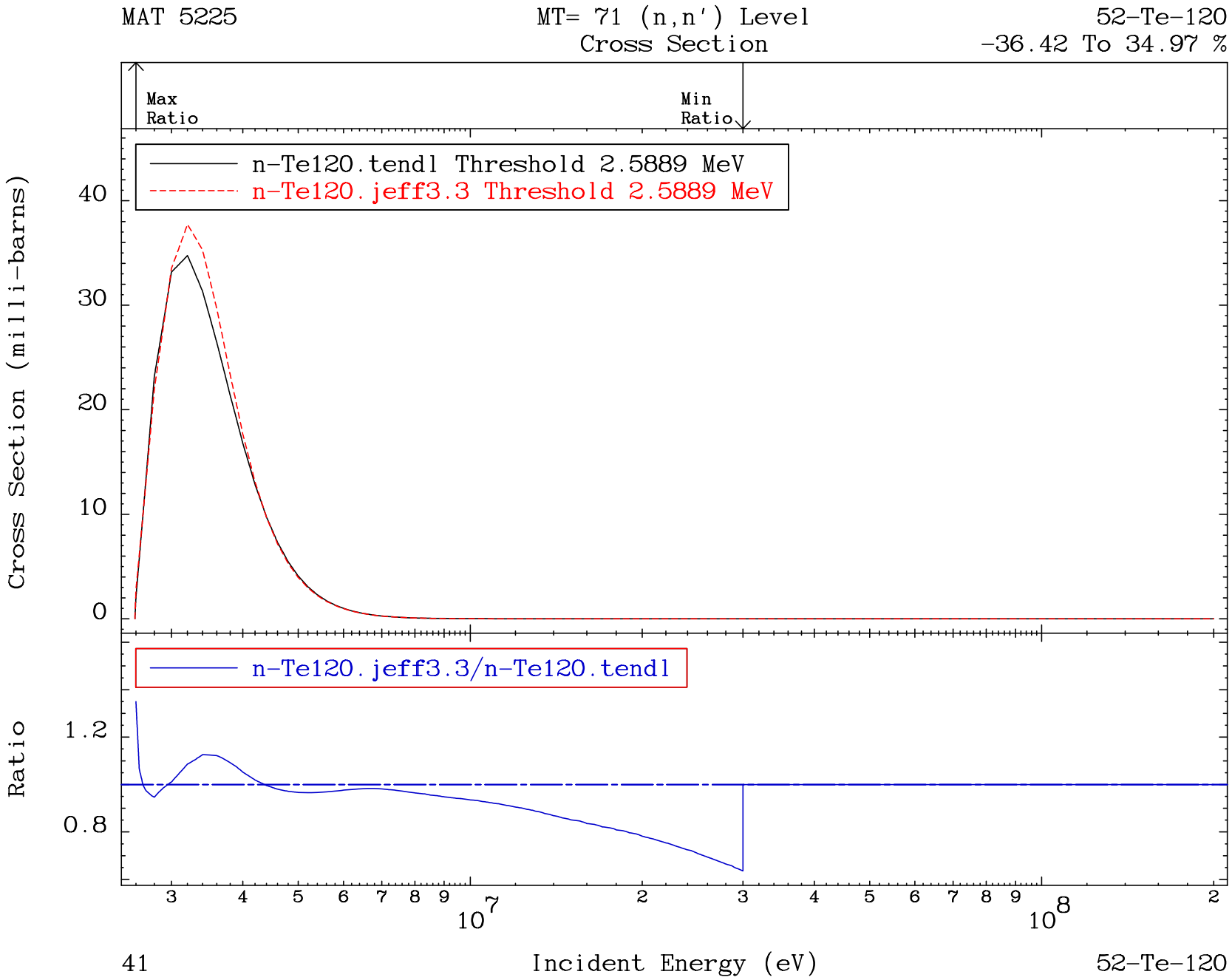

MAT 5225
MT= 66 (n,n') Level
Cross Section
52-Te-120
0.000 To 25.97 %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 2.4485 MeV
n-Te120.jeff3.3 Threshold 2.4485 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.3
1.2
1.1
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
52-Te-120

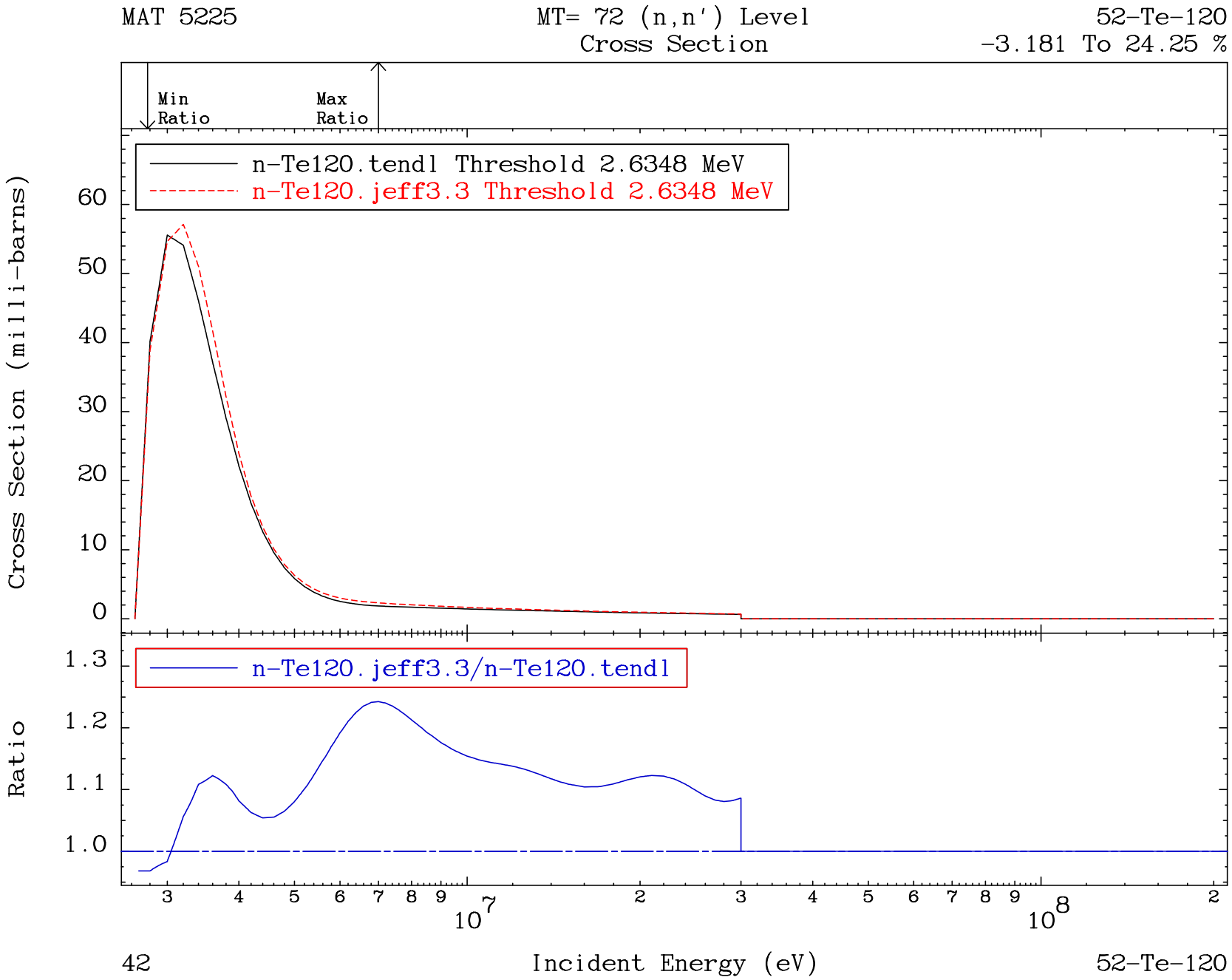

MAT 5225
MT= 67 (n,n') Level
Cross Section
52-Te-120
0.000 To 26.13 %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 2.4662 MeV
n-Te120.jeff3.3 Threshold 2.4662 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.3
1.2
1.1
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
52-Te-120

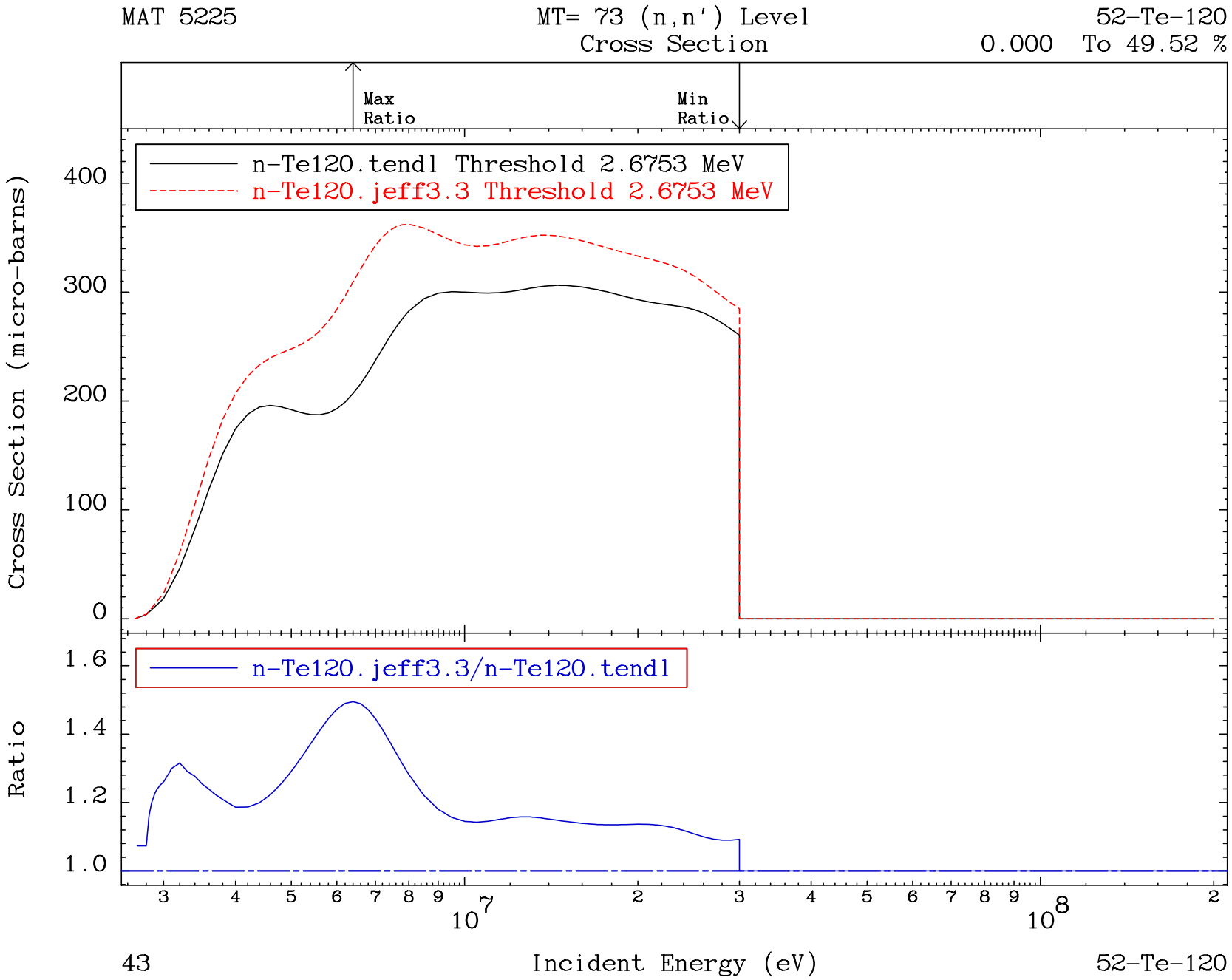

MAT 5225
MT= 68 (n,n') Level
Cross Section
52-Te-120
-36.71 To 8.071 %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 2.4765 MeV
n-Te120.jeff3.3 Threshold 2.4765 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
1.0
0.8
0.6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
52-Te-120

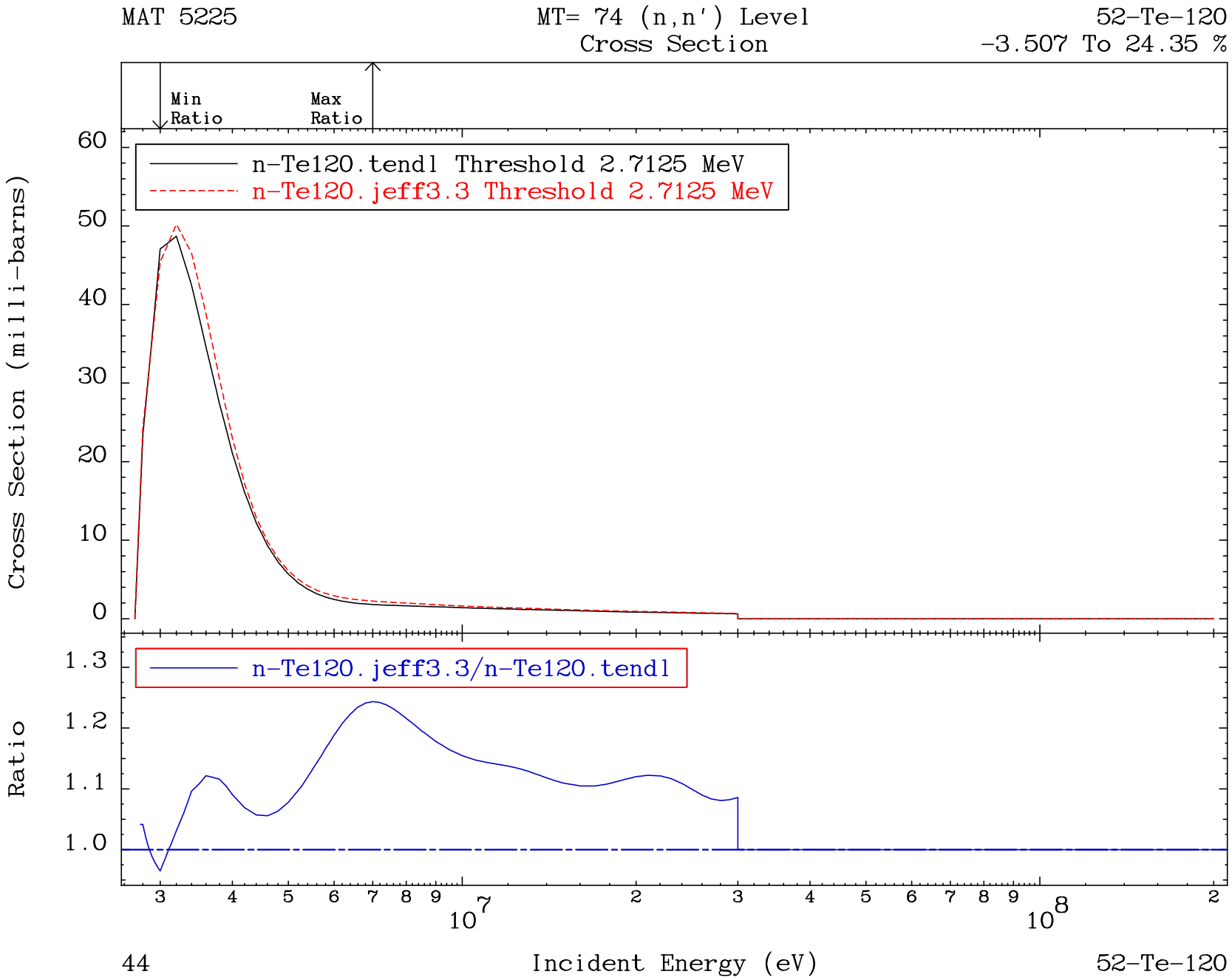

MAT 5225
MT= 69 (n,n') Level
Cross Section
52-Te-120
-36.42 To 12.71 %
Max
Ratio
Min
Ratio
n-Te120.tendl Threshold 2.4821 MeV
n-Te120.jeff3.3 Threshold 2.4821 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
1.0
0.8
0.6
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
39
Incident Energy (eV)
52-Te-120

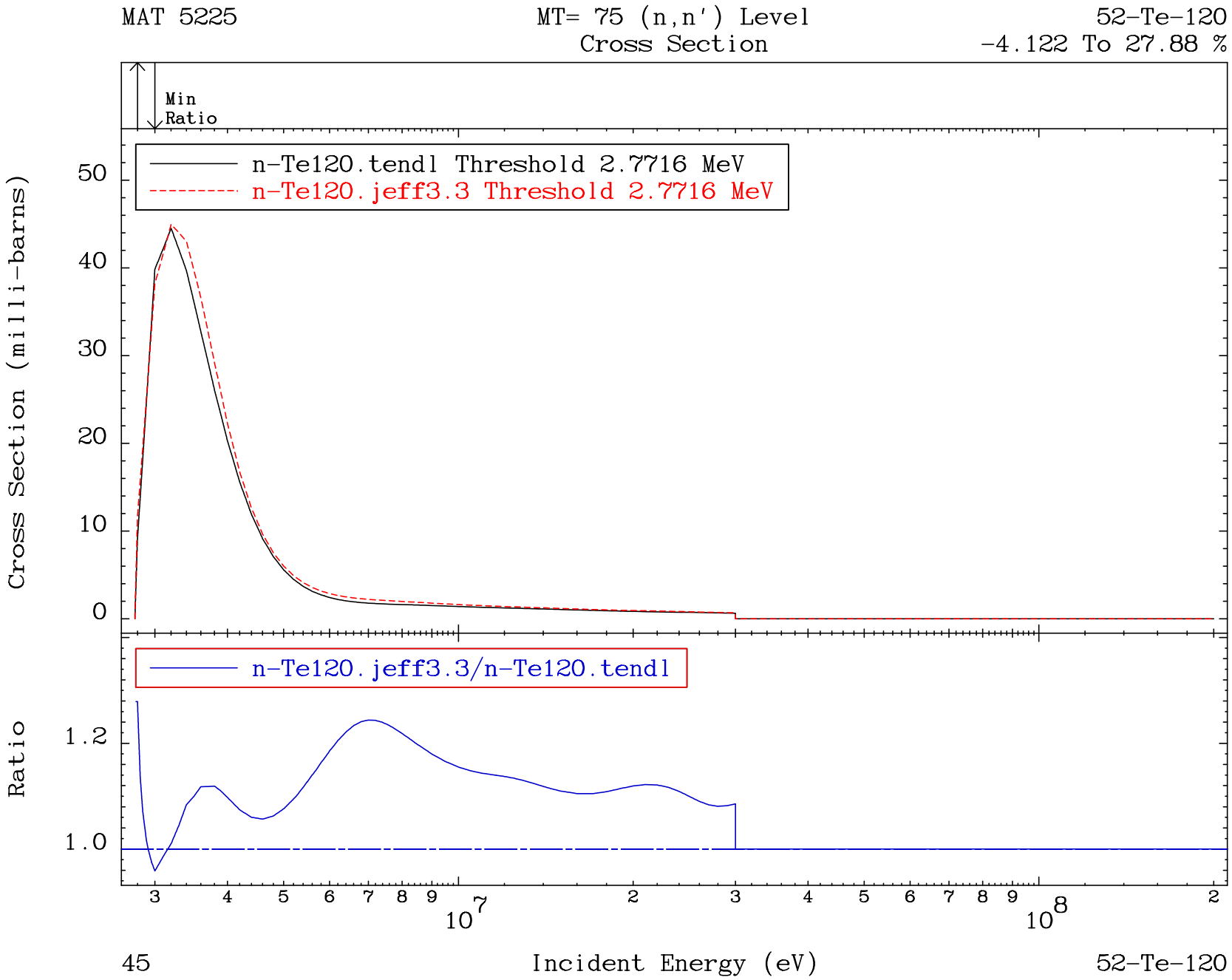

MAT 5225
MT= 70 (n,n') Level
Cross Section
52-Te-120
-0.917 To 60.13 %
Max
Ratio
n-Te120.tendl Threshold 2.5411 MeV
n-Te120.jeff3.3 Threshold 2.5411 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
1.2
1.4
1.6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
40
Incident Energy (eV)
52-Te-120

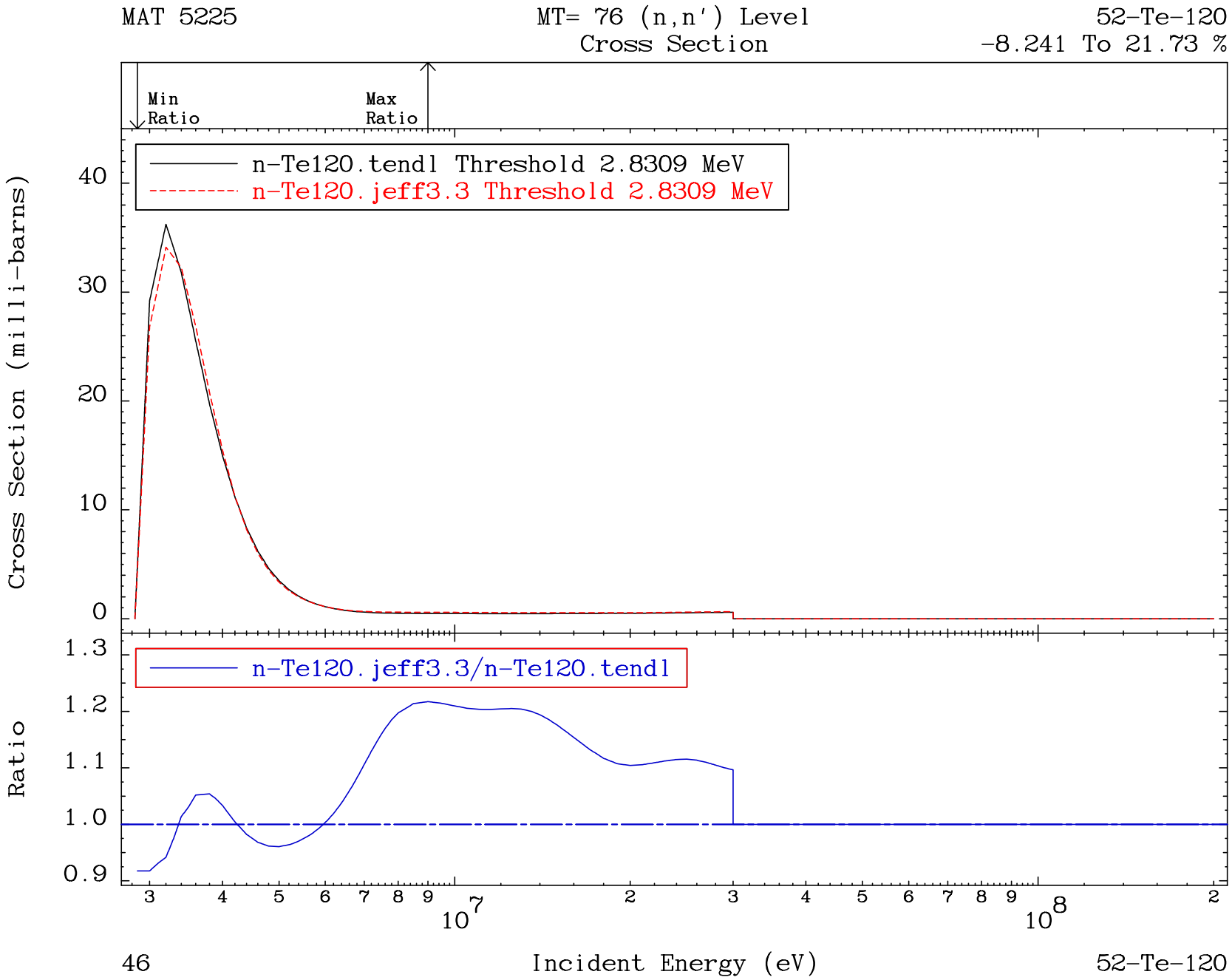

MAT 5225
MT= 71 (n,n') Level
Cross Section
52-Te-120
-36.42 To 34.97 %
Max
Ratio
Min
Ratio
n-Te120.tendl Threshold 2.5889 MeV
n-Te120.jeff3.3 Threshold 2.5889 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
0.8
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
41
Incident Energy (eV)
52-Te-120

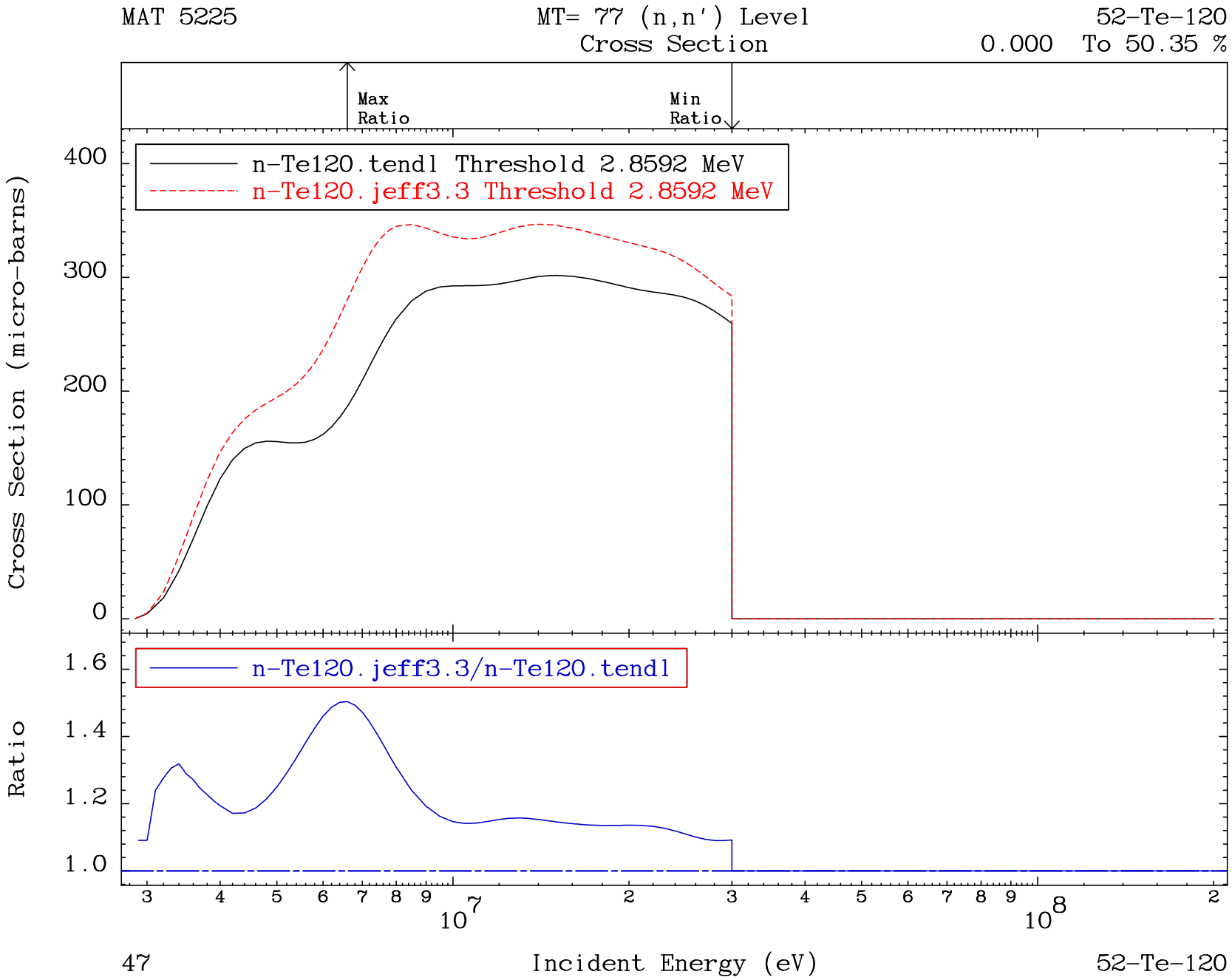

MAT 5225
MT= 72 (n,n') Level
Cross Section
52-Te-120
-3.181 To 24.25 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 2.6348 MeV
n-Te120.jeff3.3 Threshold 2.6348 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.3
1.2
1.1
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
52-Te-120

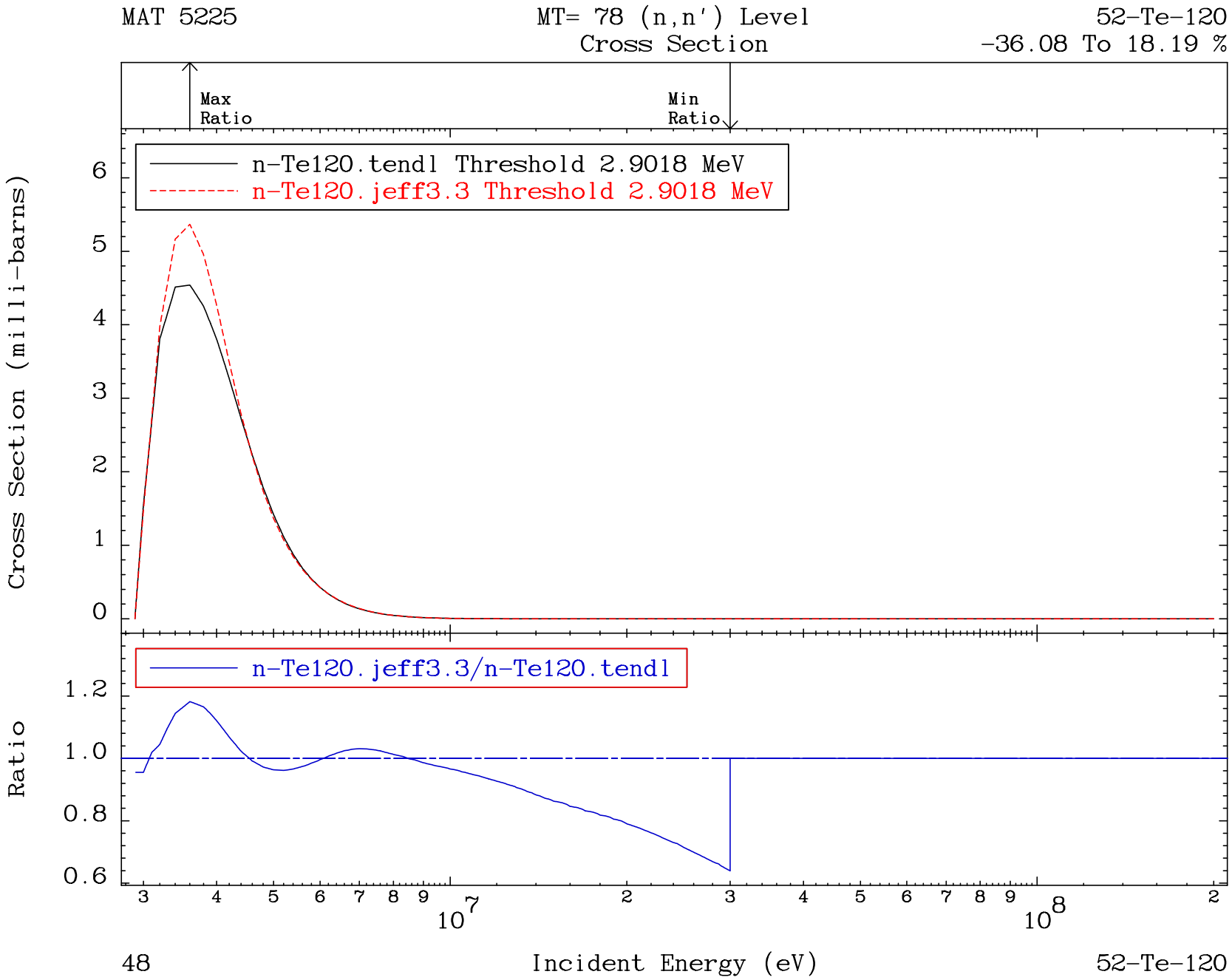

MAT 5225
MT= 73 (n,n') Level
Cross Section
52-Te-120
0.000 To 49.52 %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 2.6753 MeV
n-Te120.jeff3.3 Threshold 2.6753 MeV
Cross Section (micro-barns)
400
300
200
100
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.6
1.4
1.2
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
43
Incident Energy (eV)
52-Te-120

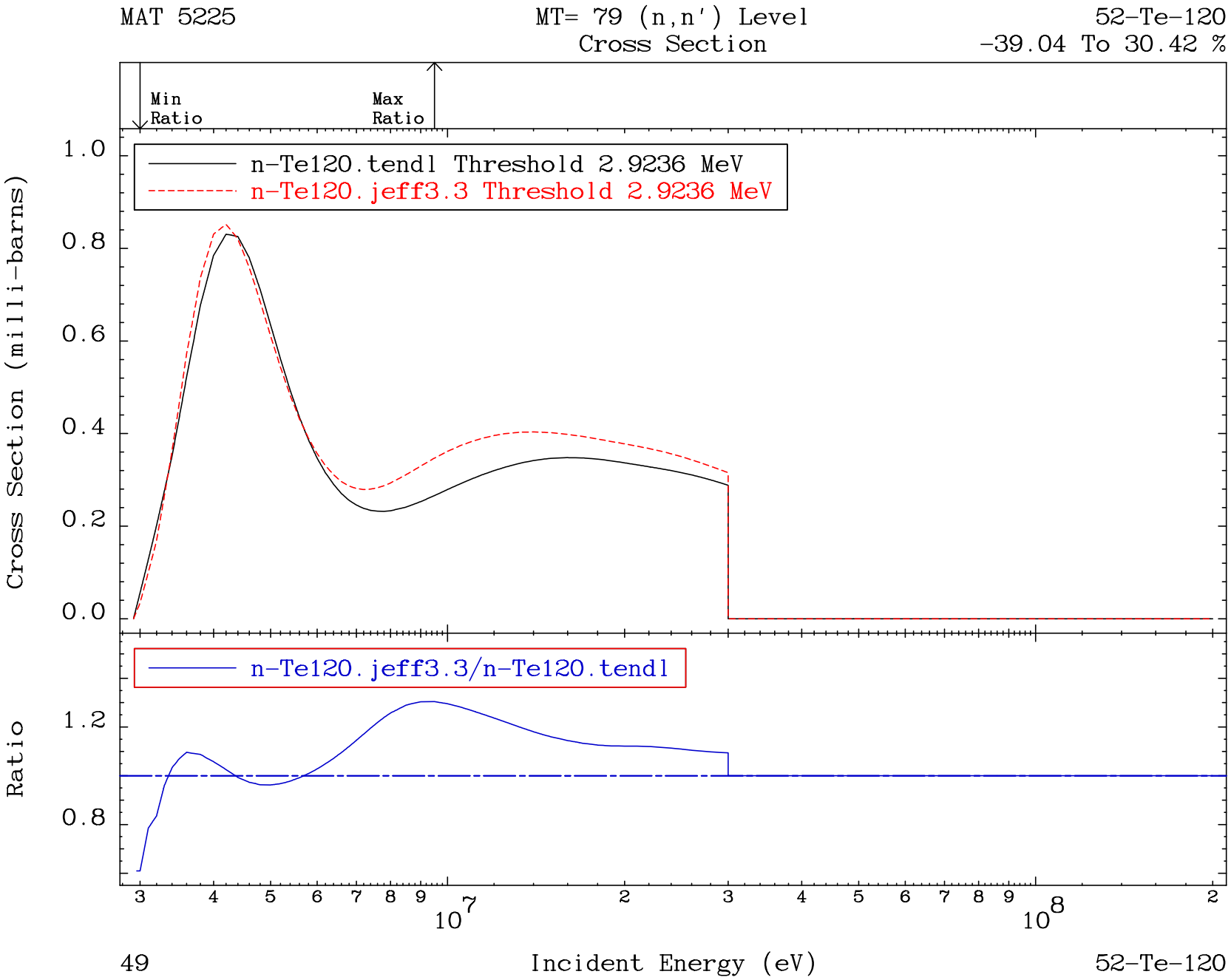

MAT 5225
MT= 74 (n,n') Level
Cross Section
52-Te-120
-3.507 To 24.35 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 2.7125 MeV
n-Te120.jeff3.3 Threshold 2.7125 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.3
1.2
1.1
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
52-Te-120

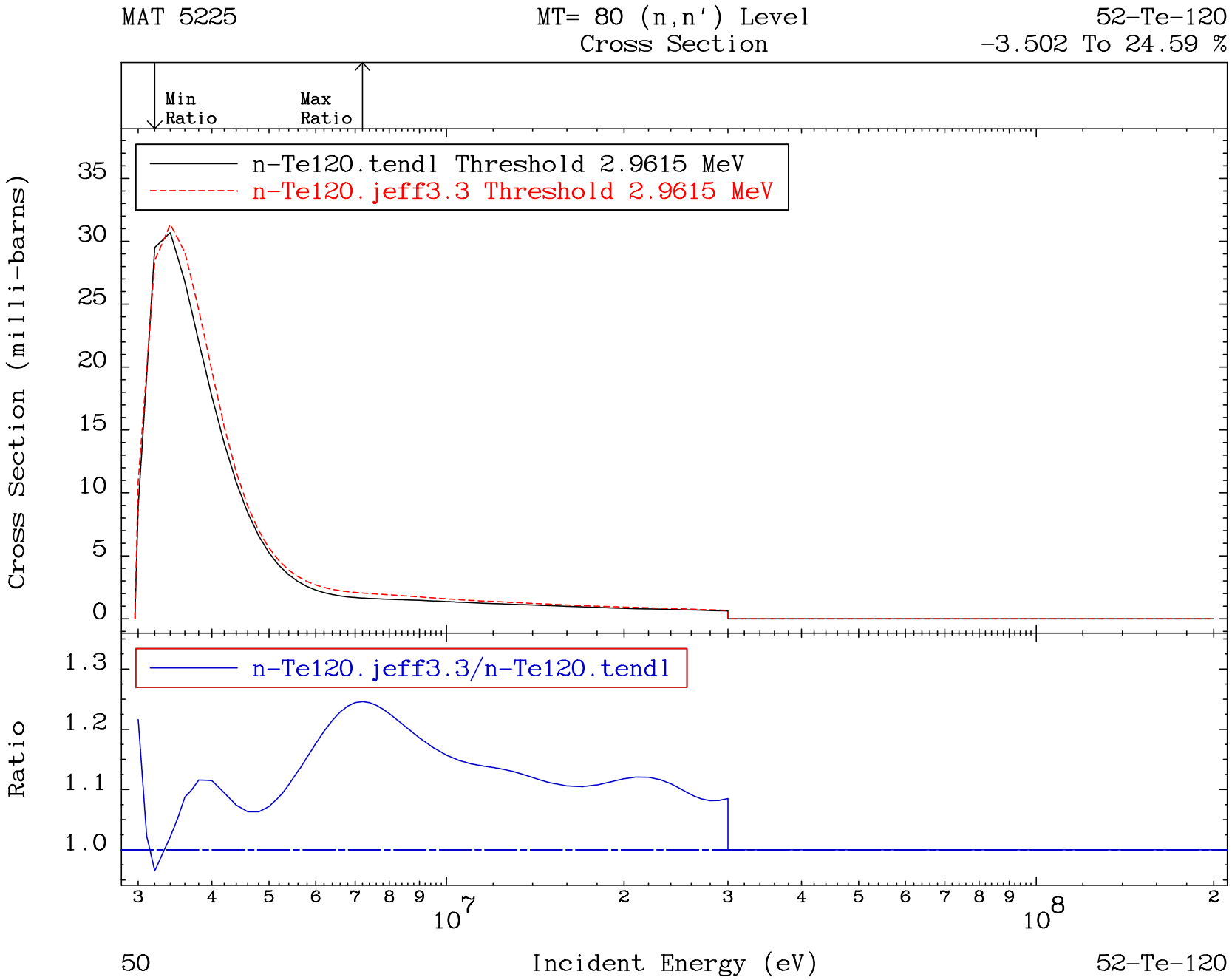

MAT 5225
MT= 75 (n,n') Level
Cross Section
52-Te-120
-4.122 To 27.88 %
Min
Ratio
n-Te120.tendl Threshold 2.7716 MeV
n-Te120.jeff3.3 Threshold 2.7716 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
52-Te-120

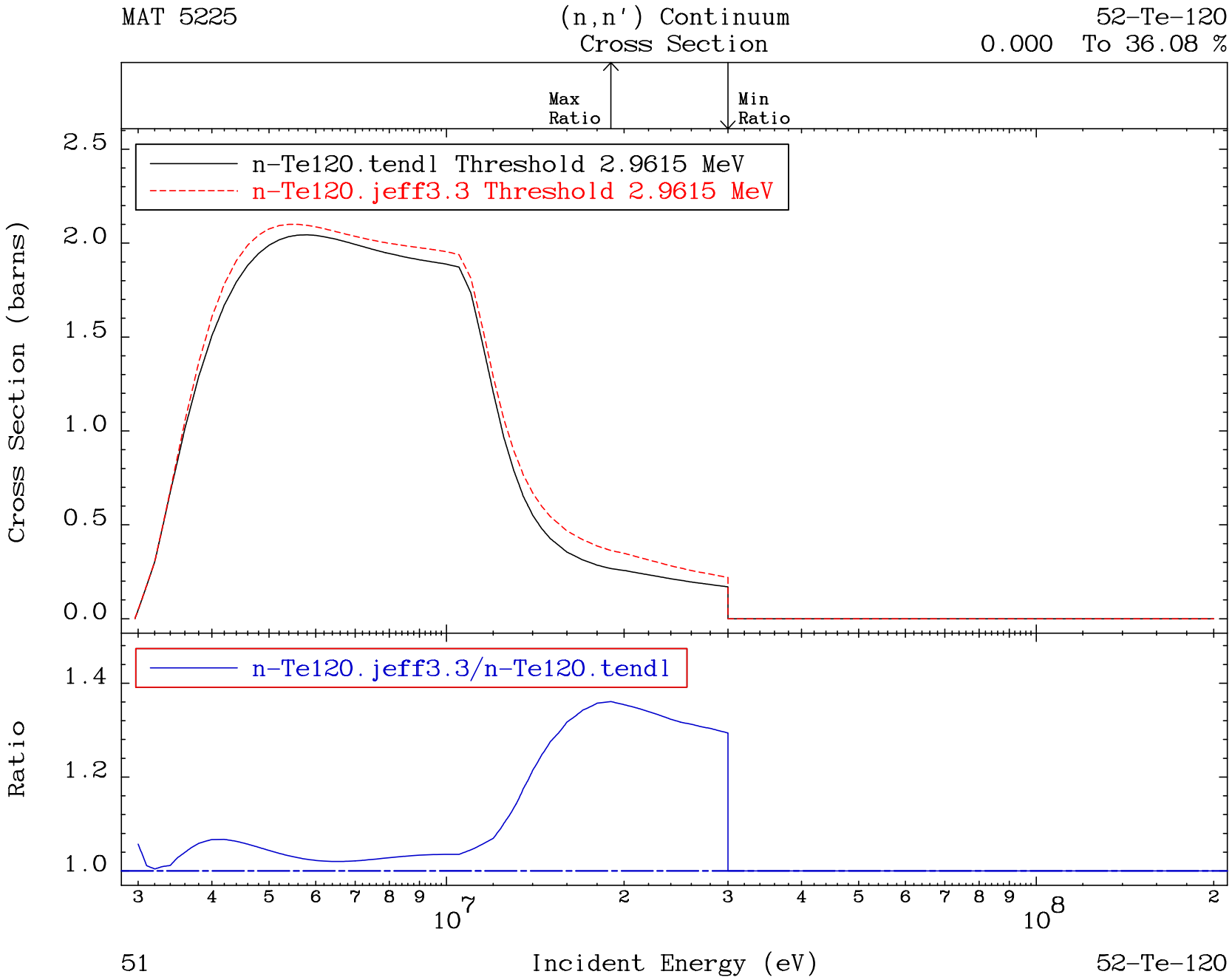

MAT 5225
MT= 76 (n,n') Level
Cross Section
52-Te-120
-8.241 To 21.73 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 2.8309 MeV
n-Te120.jeff3.3 Threshold 2.8309 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.3
1.2
1.1
1.0
0.9
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
46
Incident Energy (eV)
52-Te-120

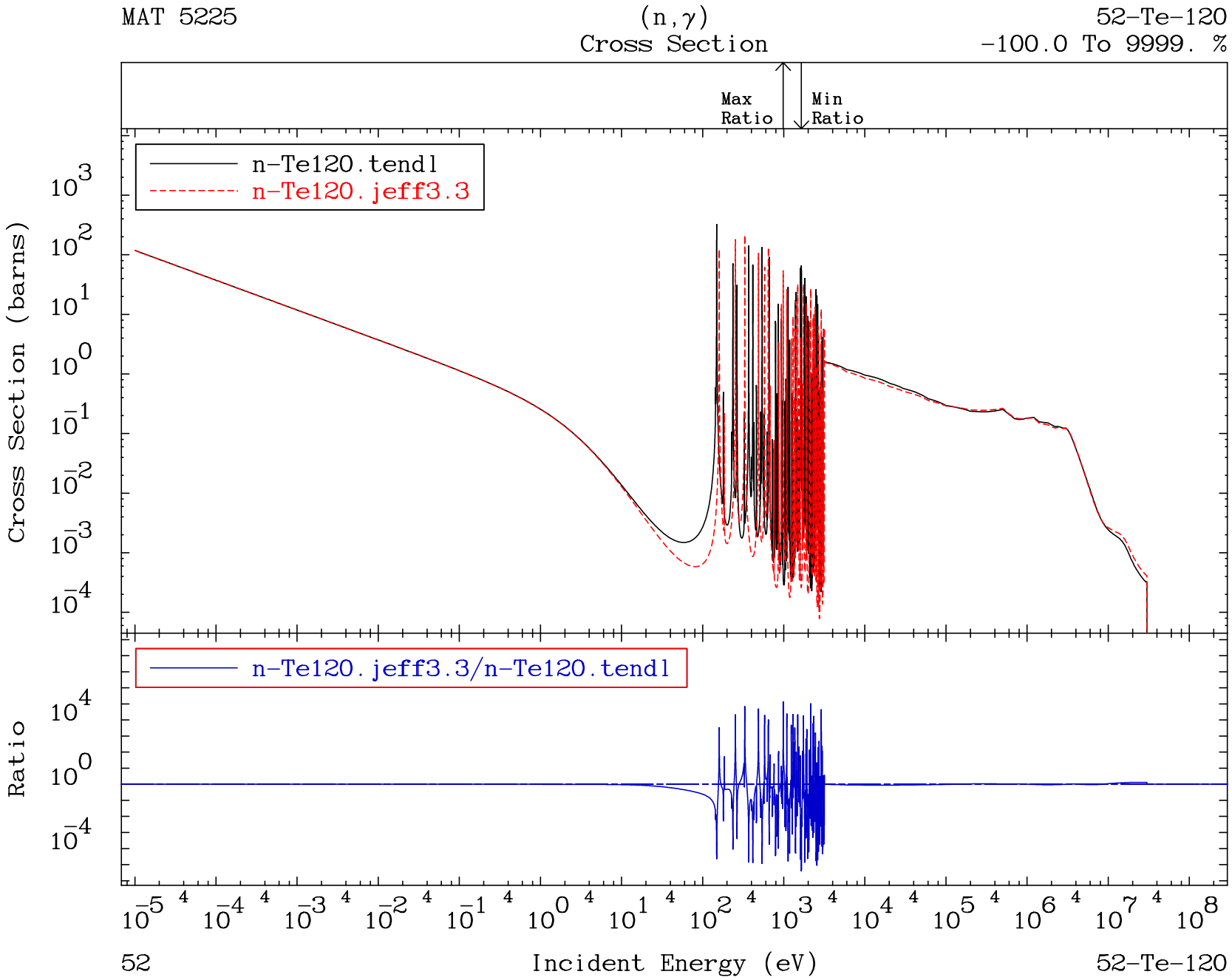

MAT 5225
MT= 77 (n,n') Level
Cross Section
52-Te-120
0.000 To 50.35 %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 2.8592 MeV
n-Te120.jeff3.3 Threshold 2.8592 MeV
Cross Section (micro-barns)
400
300
200
100
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.6
1.4
1.2
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
47
Incident Energy (eV)
52-Te-120

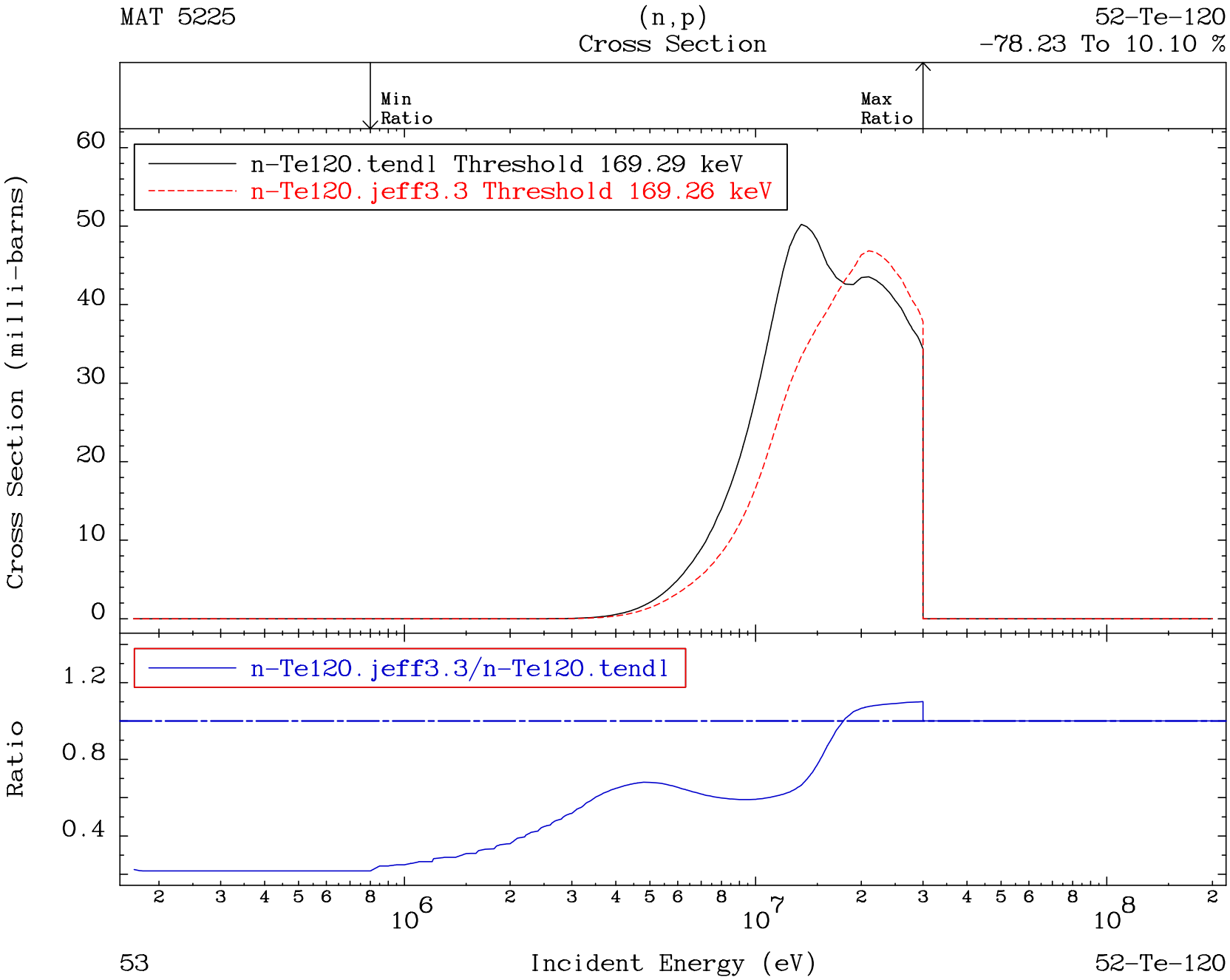

MAT 5225
MT= 78 (n,n') Level
Cross Section
52-Te-120
-36.08 To 18.19 %
Max
Ratio
Min
Ratio
n-Te120.tendl Threshold 2.9018 MeV
n-Te120.jeff3.3 Threshold 2.9018 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
n-Te120.jeff3.3/n-Te120.tendl
Ratio
0.6
0.8
1.0
1.2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
48
Incident Energy (eV)
52-Te-120

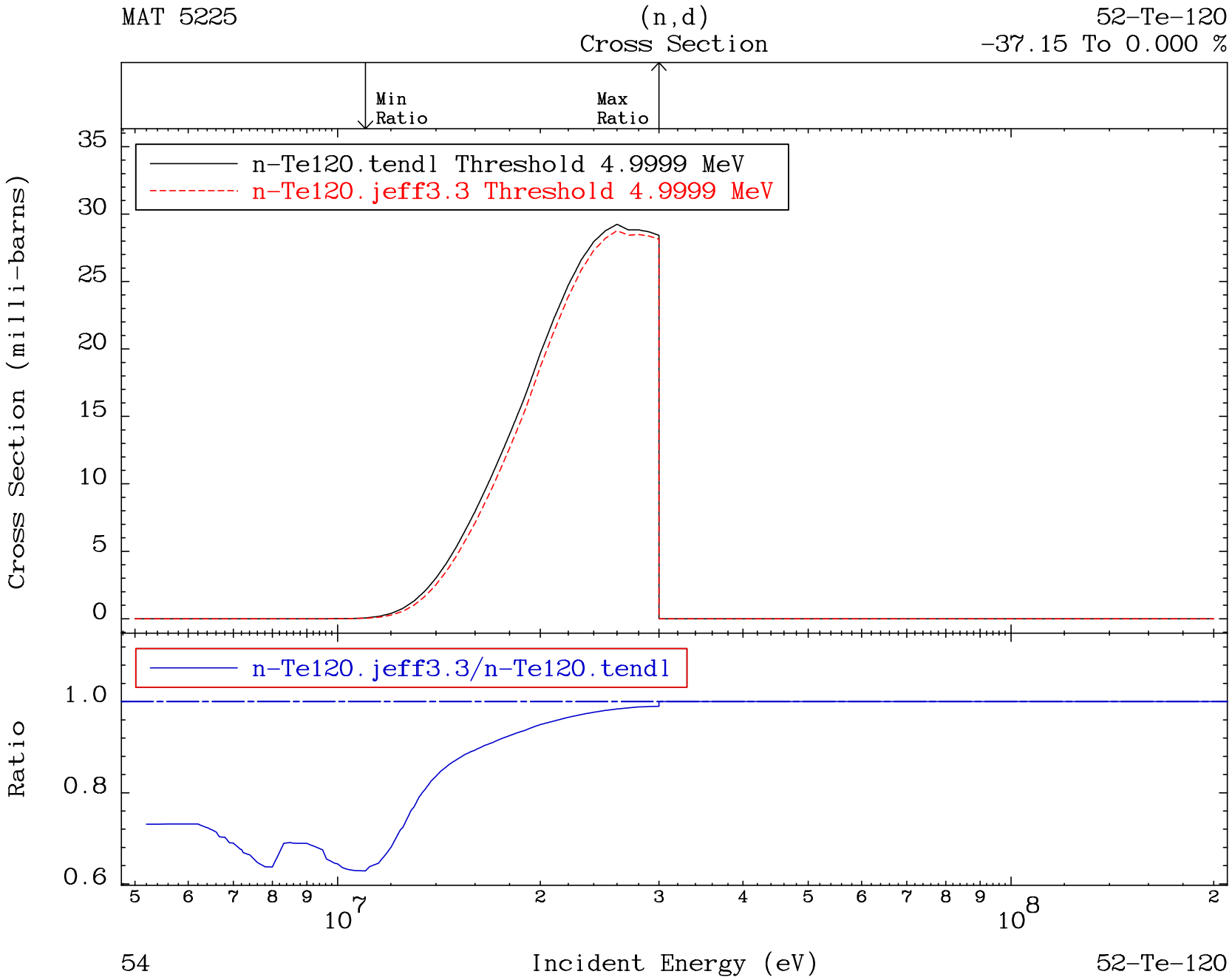

MAT 5225
MT= 79 (n,n') Level
Cross Section
52-Te-120
-39.04 To 30.42 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 2.9236 MeV
n-Te120.jeff3.3 Threshold 2.9236 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
0.8
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
49
Incident Energy (eV)
52-Te-120

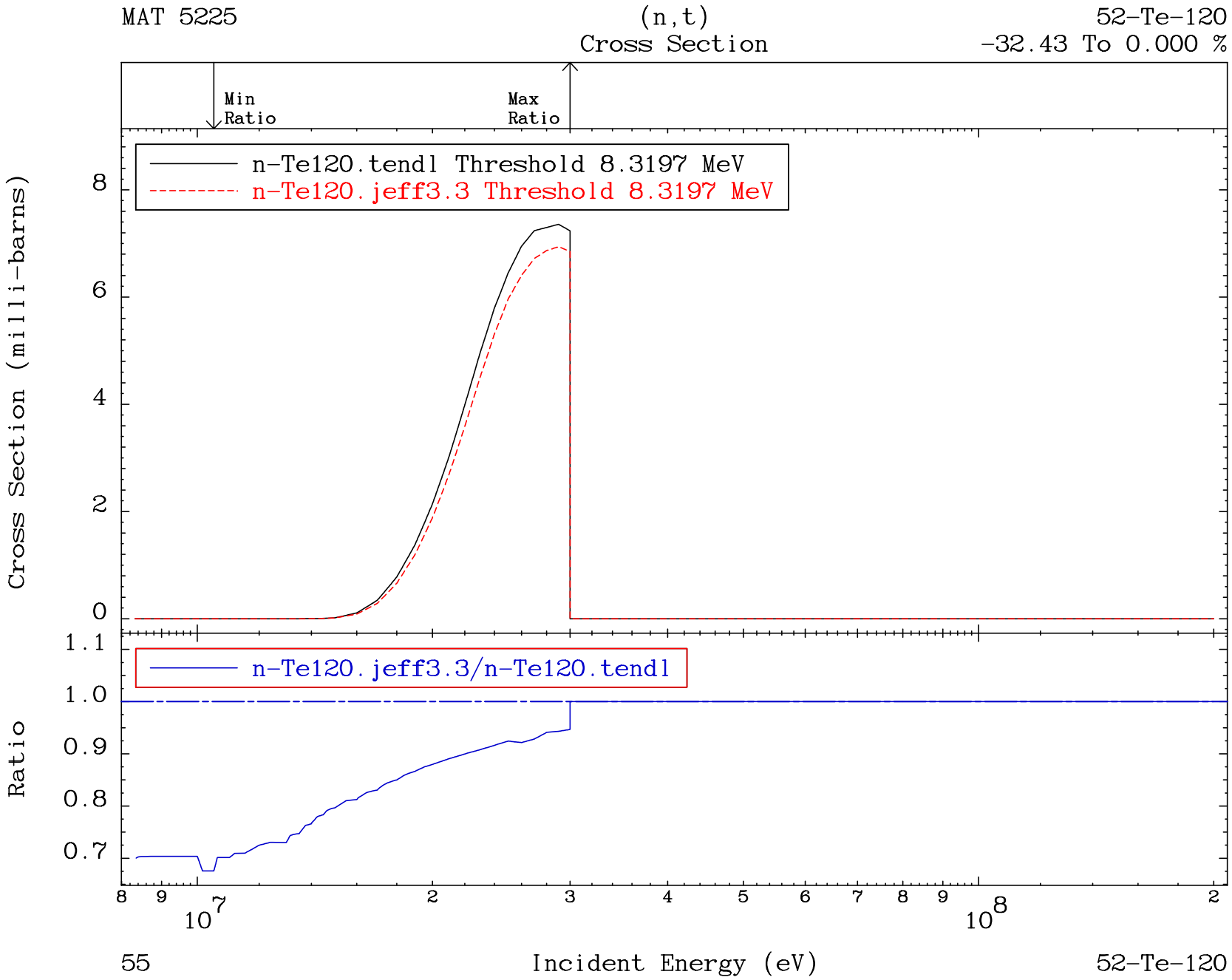

MAT 5225
MT= 80 (n,n') Level
Cross Section
52-Te-120
-3.502 To 24.59 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 2.9615 MeV
n-Te120.jeff3.3 Threshold 2.9615 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.3
1.2
1.1
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
50
Incident Energy (eV)
52-Te-120

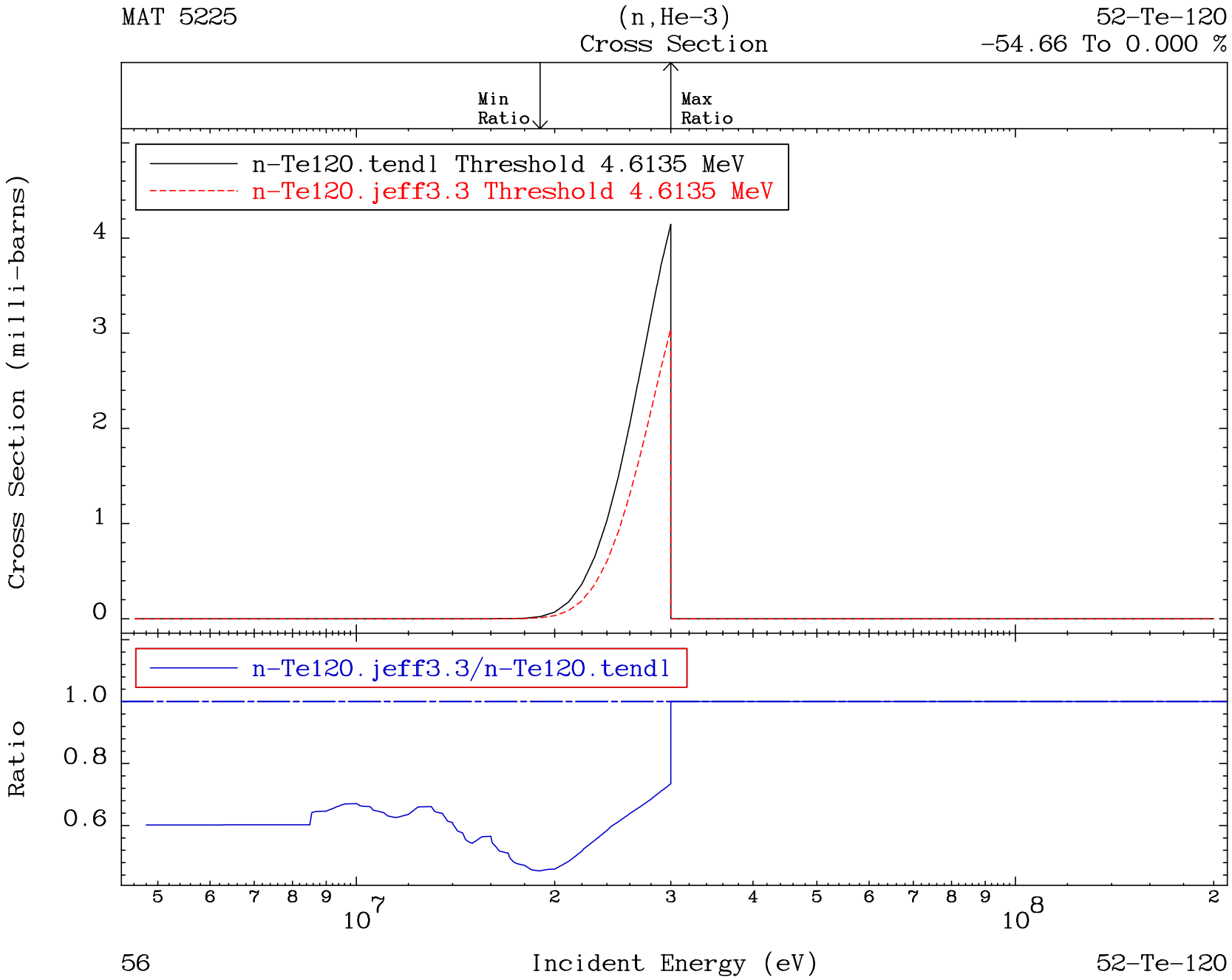

MAT 5225
(n,n') Continuum
Cross Section
52-Te-120
0.000 To 36.08 %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 2.9615 MeV
n-Te120.jeff3.3 Threshold 2.9615 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.4
1.2
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
51
Incident Energy (eV)
52-Te-120

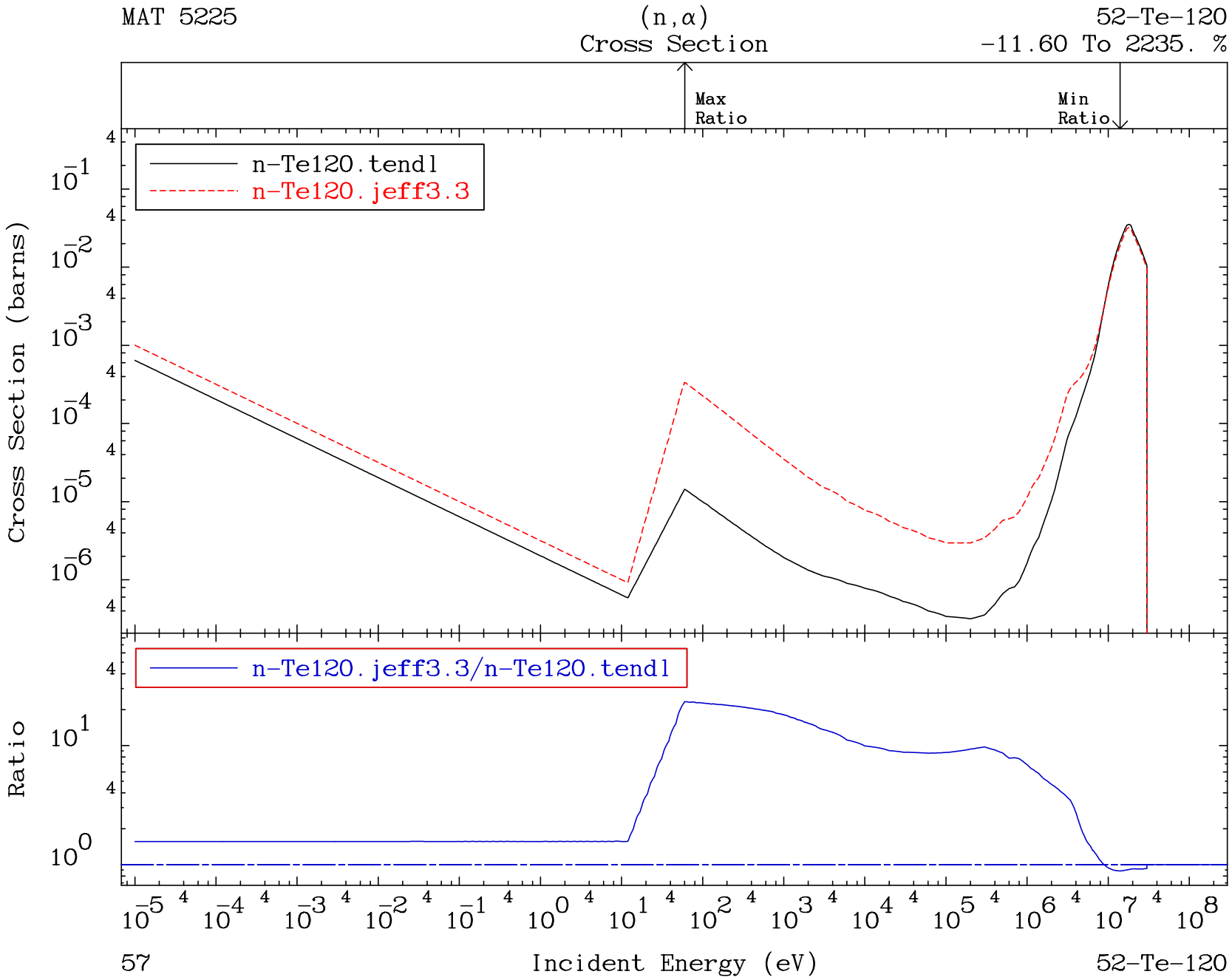

MAT 5225
(n,γ)
Cross Section
52-Te-120
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Te120.tendl
n-Te120.jeff3.3
Cross Section (barns)
n-Te120.jeff3.3/n-Te120.tendl
Ratio
Incident Energy (eV)
52
52-Te-120

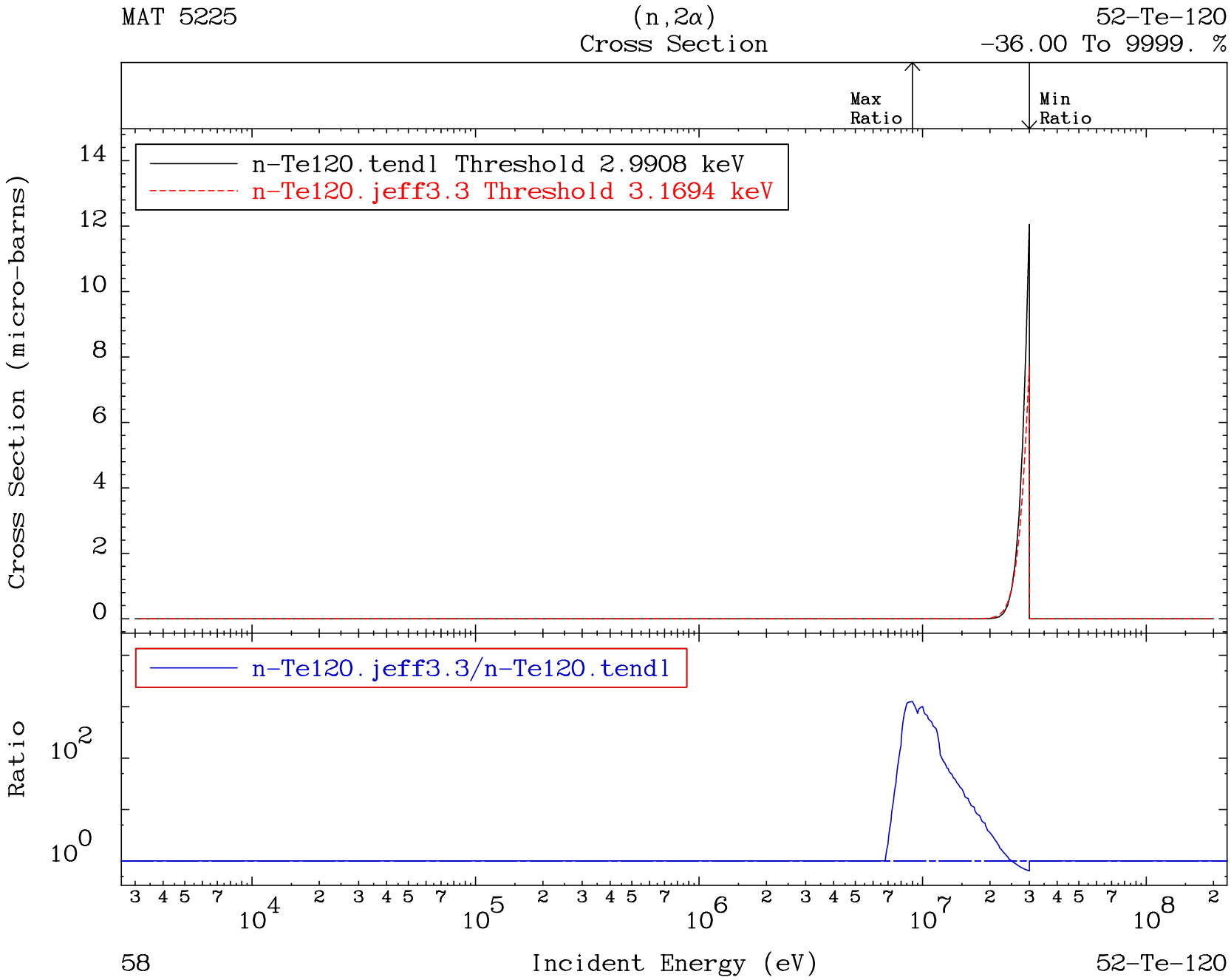

MAT 5225
(n,p)
Cross Section
52-Te-120
-78.23 To 10.10 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 169.29 keV
n-Te120.jeff3.3 Threshold 169.26 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
0.8
0.4
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
53
Incident Energy (eV)
52-Te-120

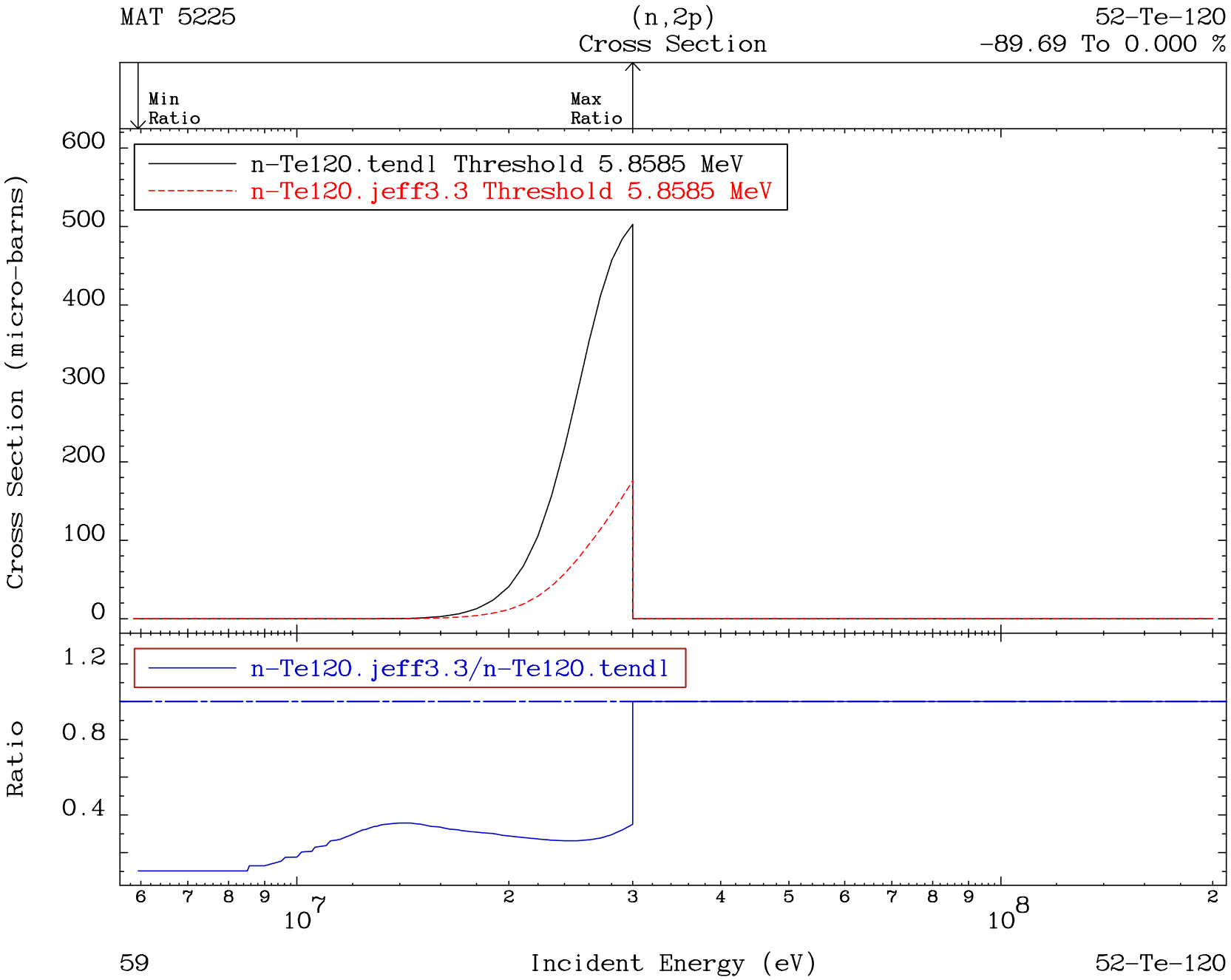

MAT 5225
(n,d)
Cross Section
52-Te-120
-37.15 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 4.9999 MeV
n-Te120.jeff3.3 Threshold 4.9999 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
0.8
0.6
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
54
Incident Energy (eV)
52-Te-120

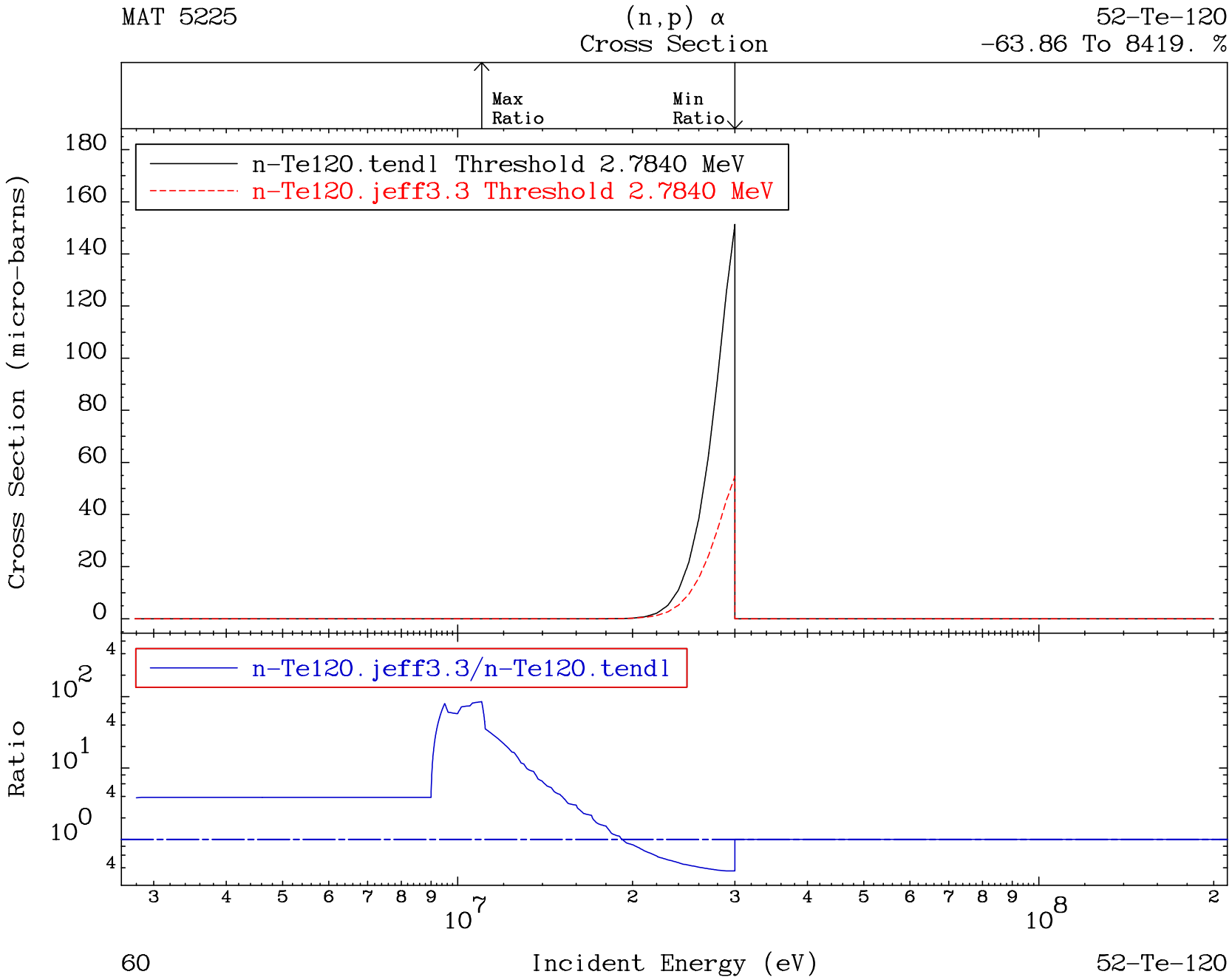

MAT 5225
(n,t)
Cross Section
52-Te-120
-32.43 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 8.3197 MeV
n-Te120.jeff3.3 Threshold 8.3197 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Te120.jeff3.3/n-Te120.tendl
Ratio
0.7
0.8
0.9
1.0
1.1
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
55
Incident Energy (eV)
52-Te-120

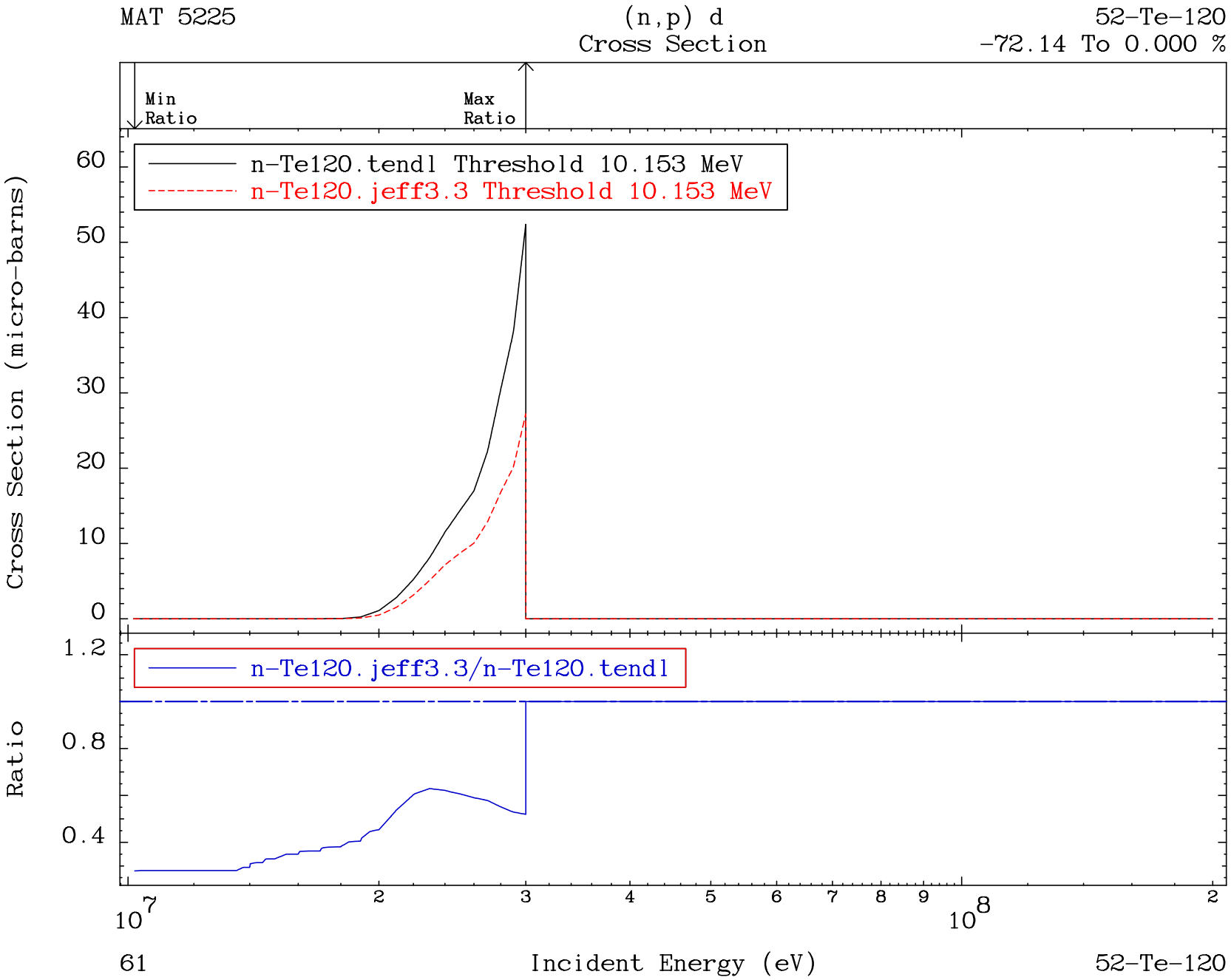

MAT 5225
(n,He-3)
Cross Section
52-Te-120
-54.66 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 4.6135 MeV
n-Te120.jeff3.3 Threshold 4.6135 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
0.8
0.6
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
56
Incident Energy (eV)
52-Te-120

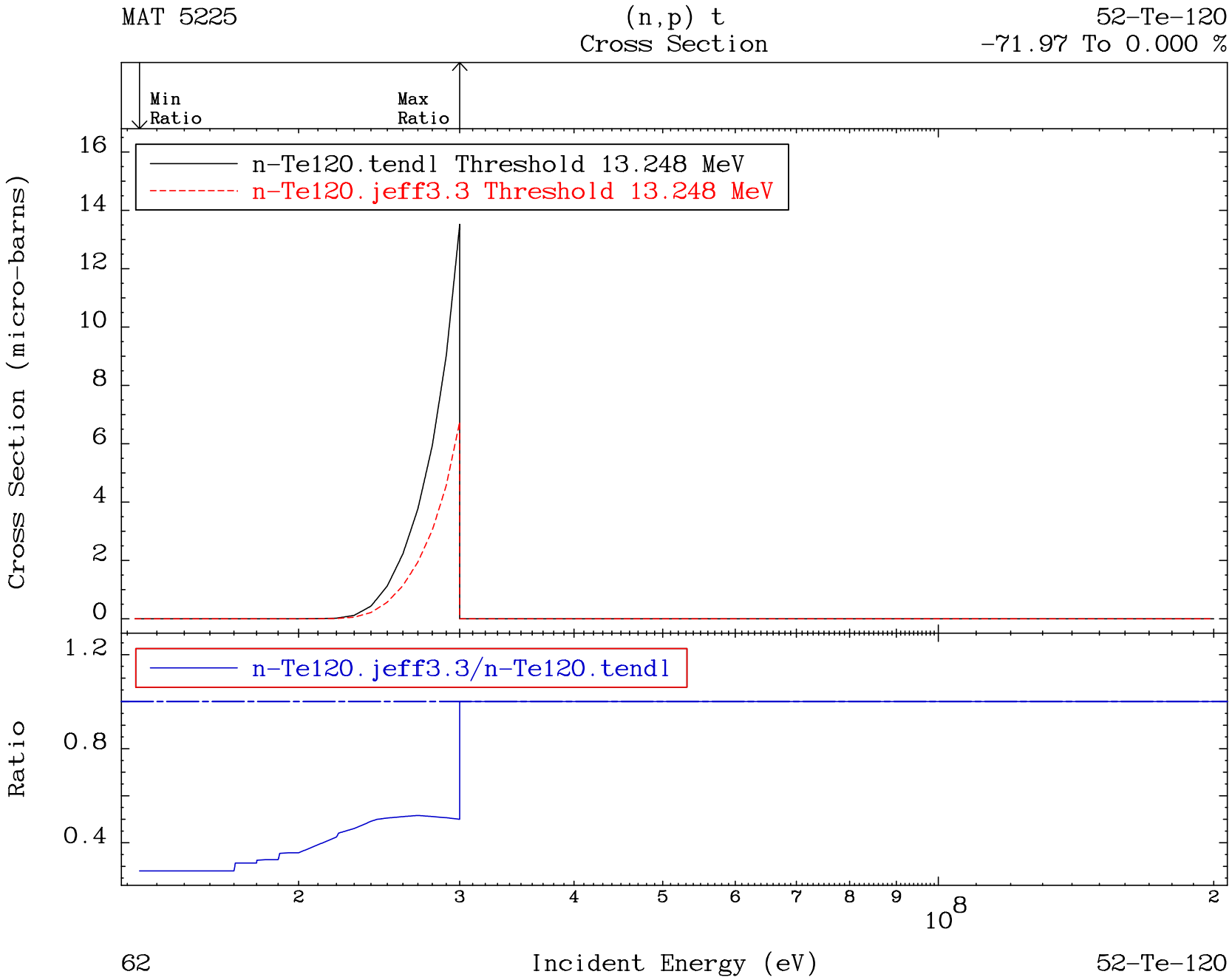

MAT 5225
(n,α)
Cross Section
52-Te-120
-11.60 To 2235. %
Max Ratio
Min Ratio
n-Te120.tendl
n-Te120.jeff3.3
Cross Section (barns)
n-Te120.jeff3.3/n-Te120.tendl
Ratio
Incident Energy (eV)
57
52-Te-120

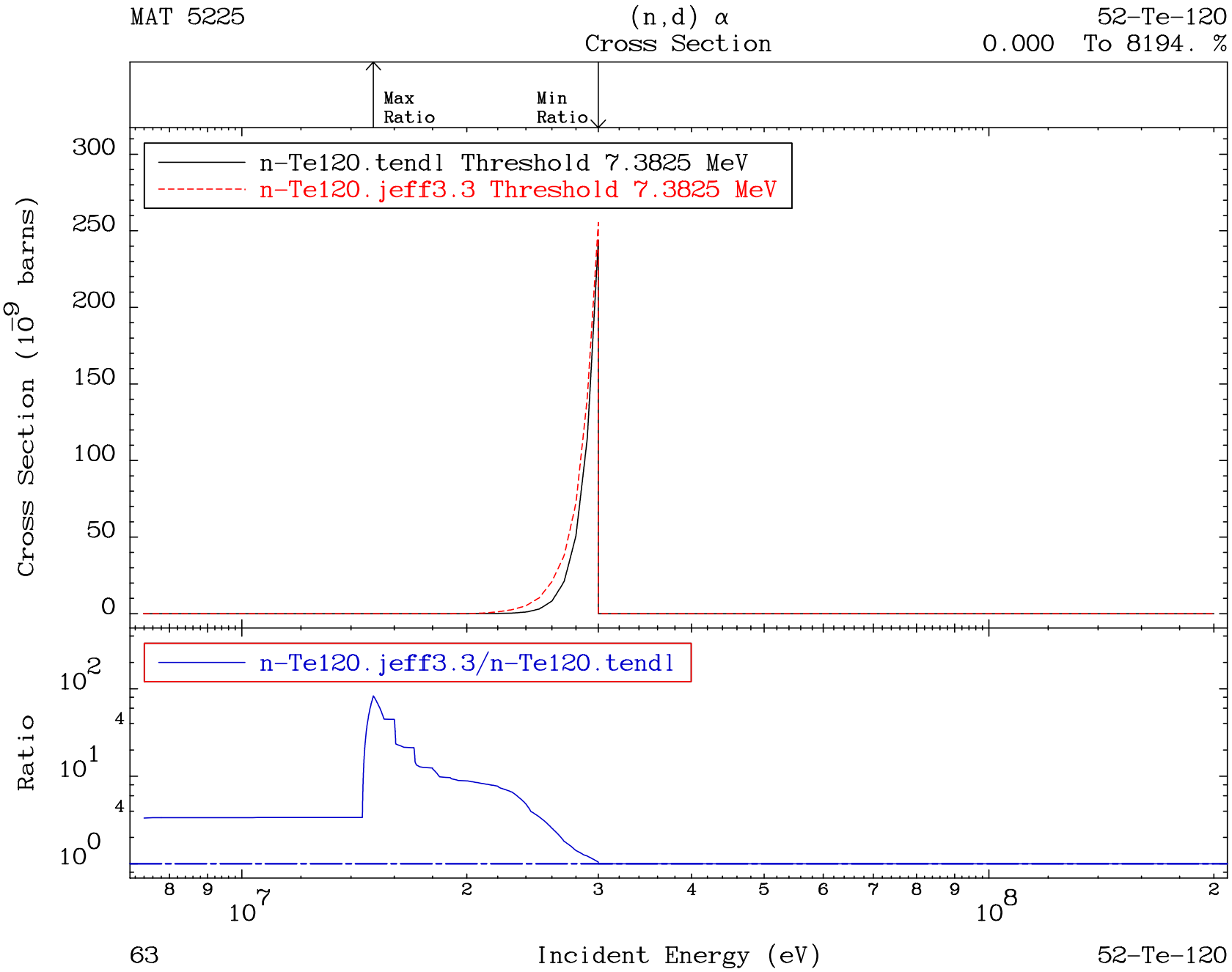

MAT 5225
(n,2α)
Cross Section
52-Te-120
-36.00 To 9999. %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 2.9908 keV
n-Te120.jeff3.3 Threshold 3.1694 keV
Cross Section (micro-barns)
0
2
4
6
8
10
12
14
n-Te120.jeff3.3/n-Te120.tendl
Ratio
10^0
10^2
3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
58
Incident Energy (eV)
52-Te-120

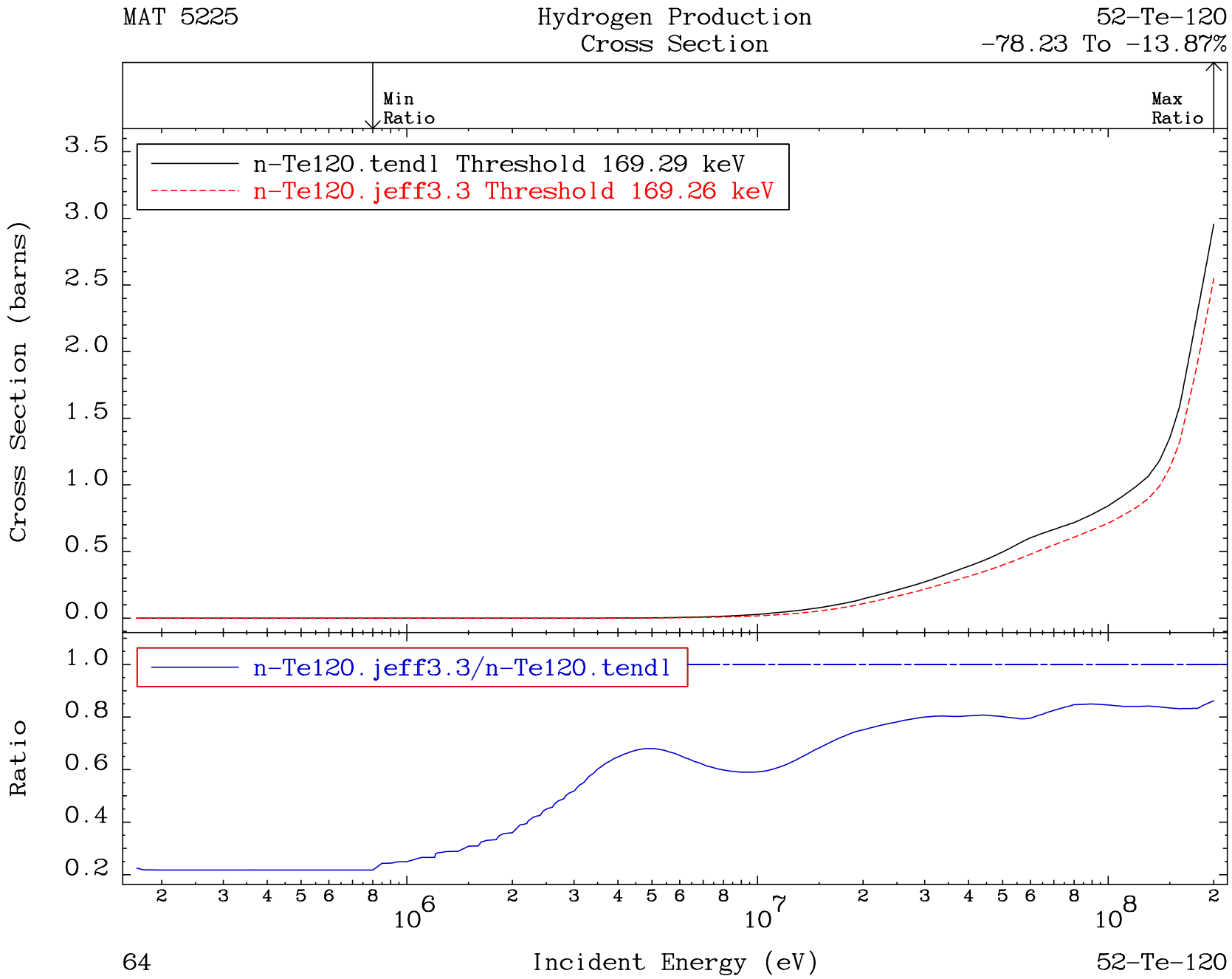

MAT 5225
(n,2p)
Cross Section
52-Te-120
-89.69 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 5.8585 MeV
n-Te120.jeff3.3 Threshold 5.8585 MeV
Cross Section (micro-barns)
600
500
400
300
200
100
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
0.8
0.4
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
59
Incident Energy (eV)
52-Te-120

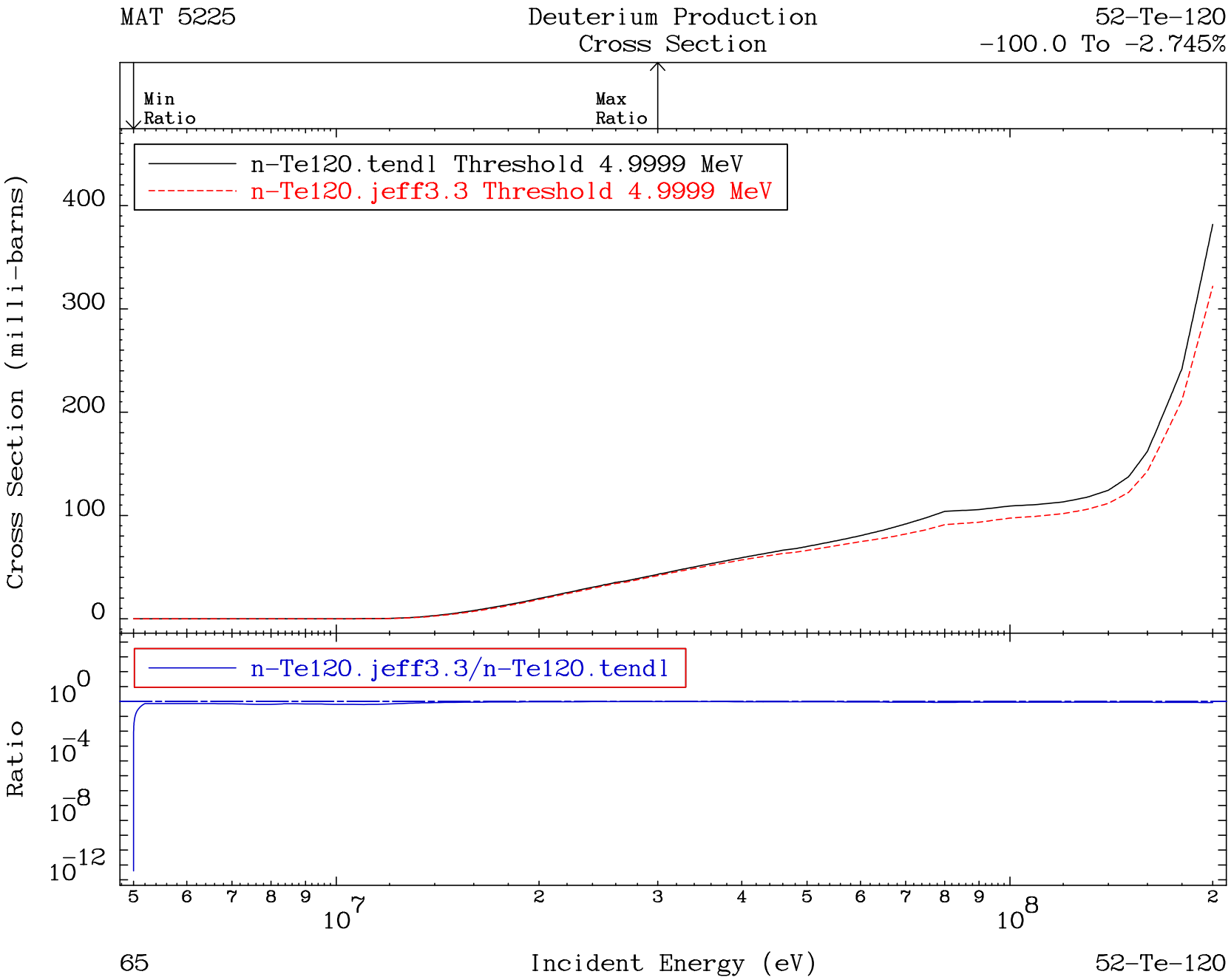

MAT 5225
(n,p) α
Cross Section
52-Te-120
-63.86 To 8419. %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 2.7840 MeV
n-Te120.jeff3.3 Threshold 2.7840 MeV
Cross Section (micro-barns)
180
160
140
120
100
80
60
40
20
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
10^2
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
60
Incident Energy (eV)
52-Te-120

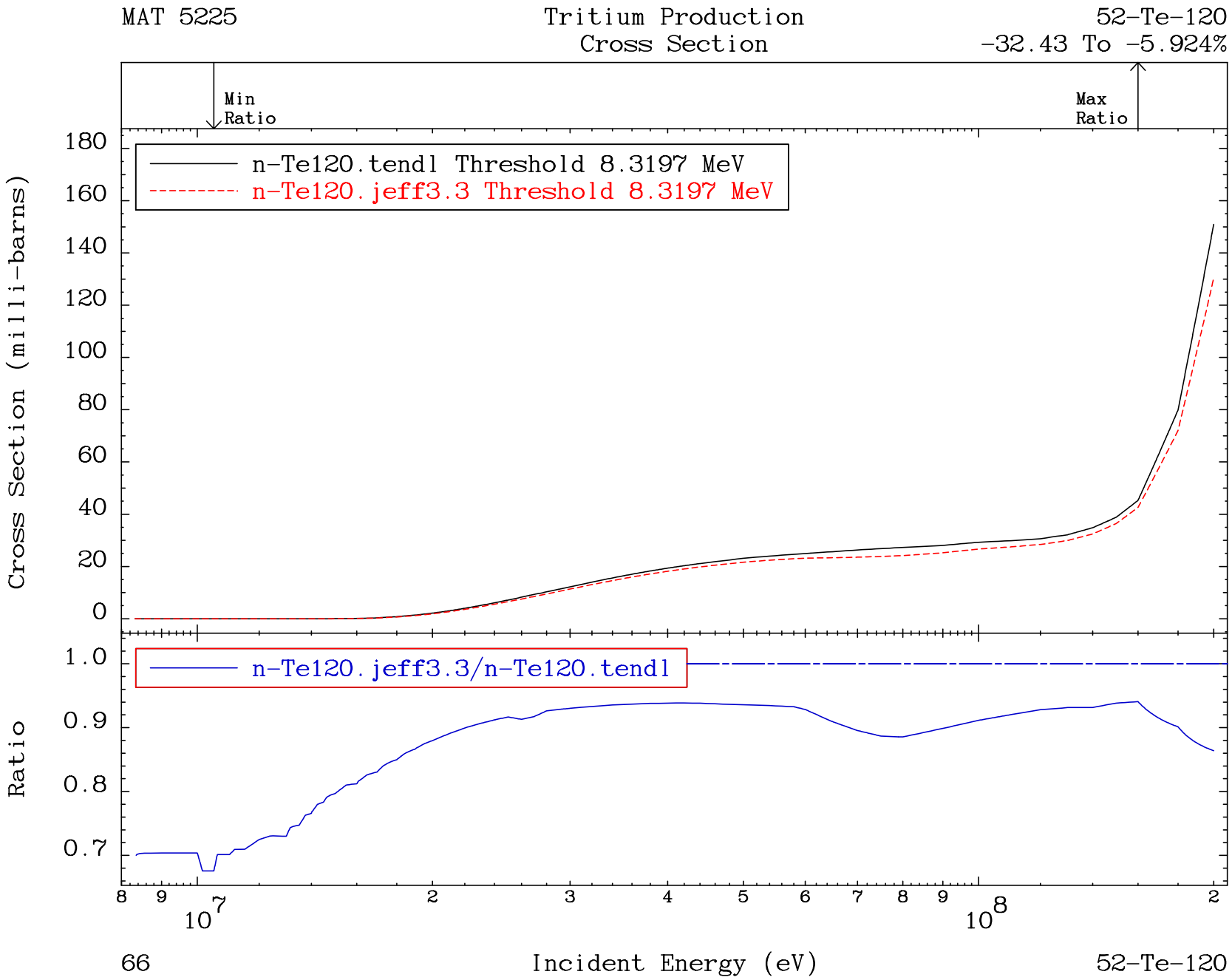

MAT 5225
(n,p) d
Cross Section
52-Te-120
-72.14 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 10.153 MeV
n-Te120.jeff3.3 Threshold 10.153 MeV
Cross Section (micro-barns)
60
50
40
30
20
10
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
0.8
0.4
10^7
2
3
4
5
6
7
8
9
10^8
2
61
Incident Energy (eV)
52-Te-120

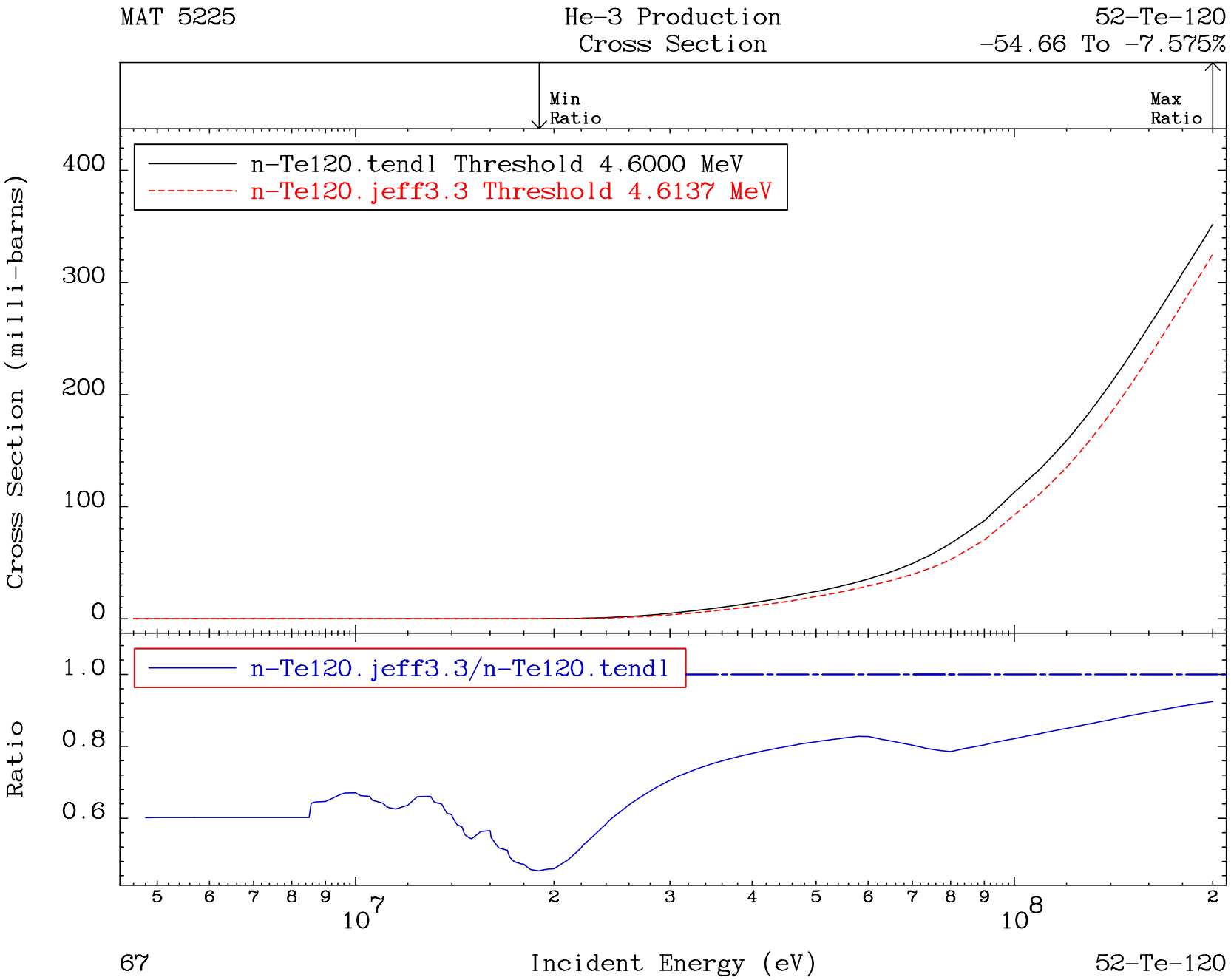

MAT 5225
(n,p) t
Cross Section
52-Te-120
-71.97 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 13.248 MeV
n-Te120.jeff3.3 Threshold 13.248 MeV
Cross Section (micro-barns)
16
14
12
10
8
6
4
2
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
62
Incident Energy (eV)
52-Te-120

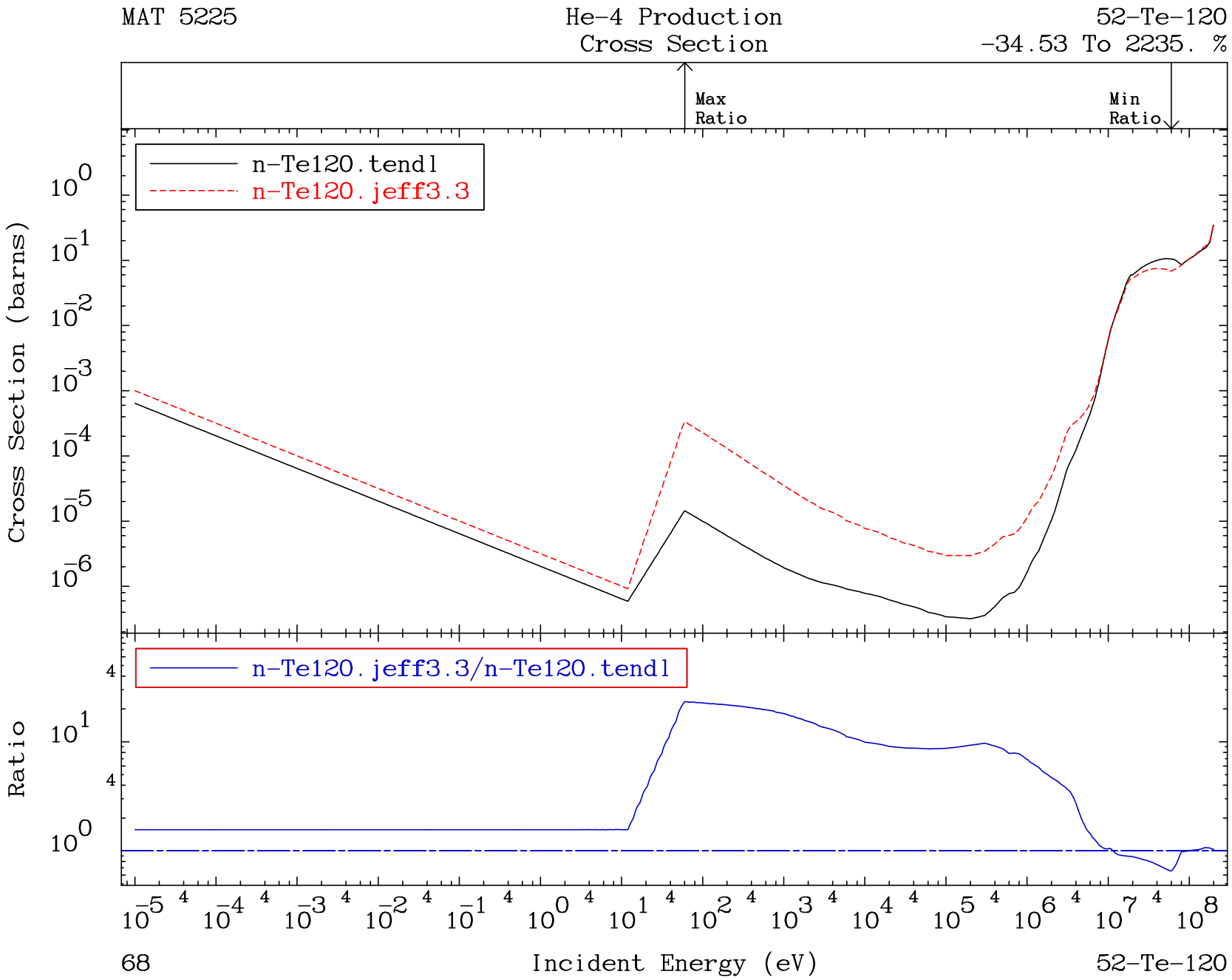

MAT 5225
(n,d) α
Cross Section
52-Te-120
0.000 To 8194. %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 7.3825 MeV
n-Te120.jeff3.3 Threshold 7.3825 MeV
Cross Section (10^{-9} barns)
300
250
200
150
100
50
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
10^{2}
10^{1}
10^{0}
8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
63
Incident Energy (eV)
52-Te-120

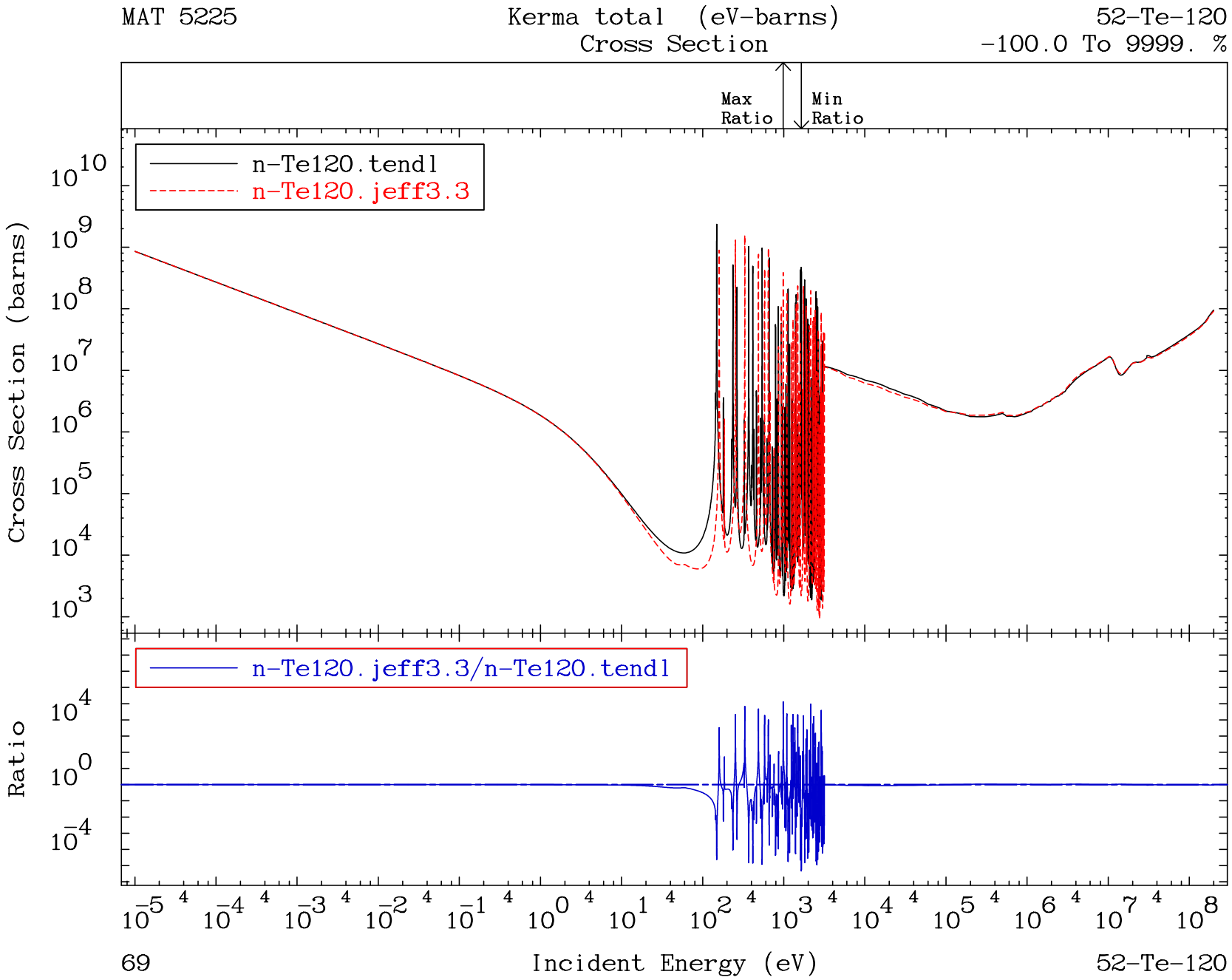

MAT 5225
Hydrogen Production
Cross Section
52-Te-120
-78.23 To -13.87%
Min Ratio
Max Ratio
n-Te120.tendl Threshold 169.29 keV
n-Te120.jeff3.3 Threshold 169.26 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
0.8
0.6
0.4
0.2
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
64
Incident Energy (eV)
52-Te-120

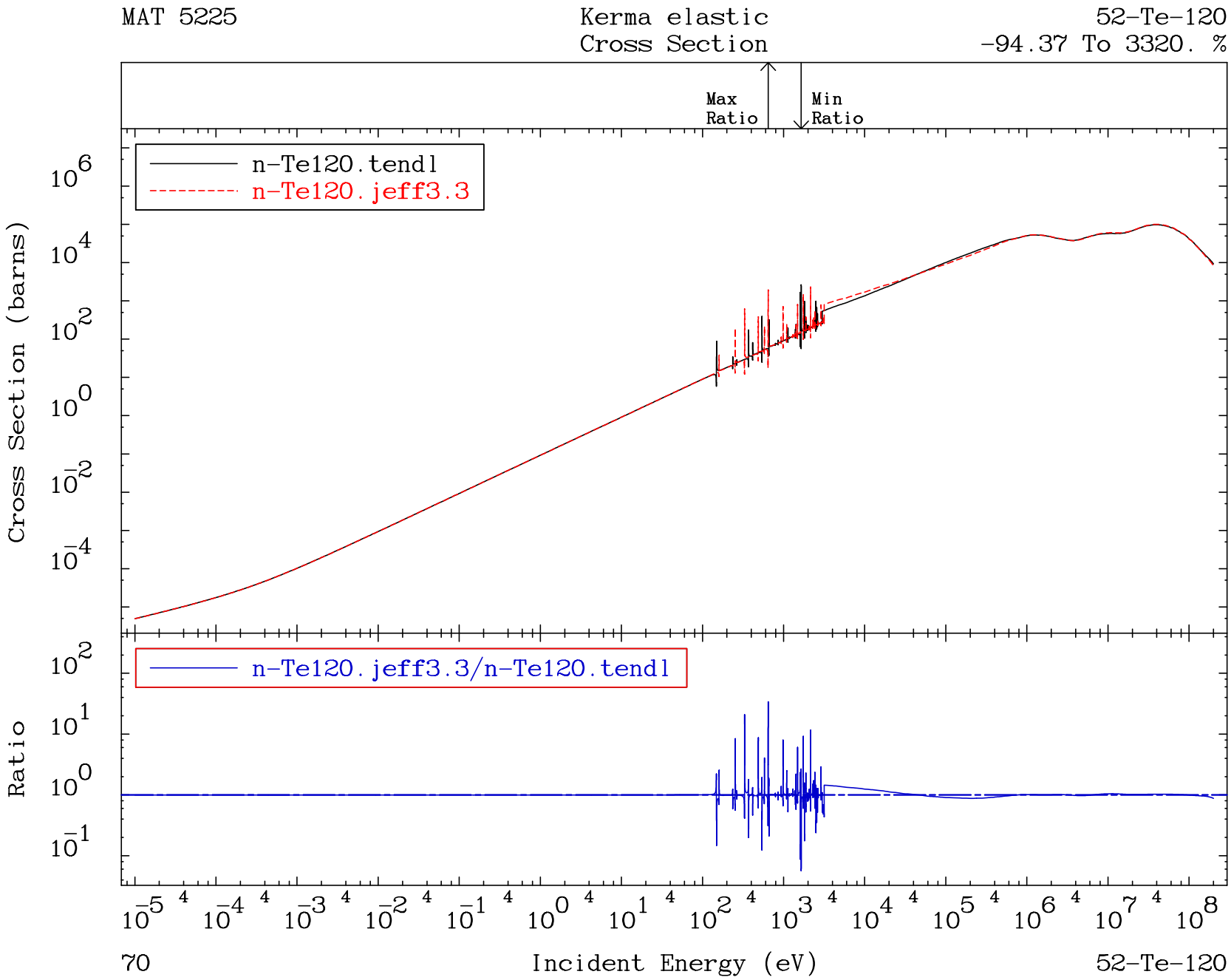

MAT 5225
Deuterium Production
Cross Section
52-Te-120
-100.0 To -2.745%
Min
Ratio
Max
Ratio
n-Te120.tendl Threshold 4.9999 MeV
n-Te120.jeff3.3 Threshold 4.9999 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
10^0
10^-4
10^-8
10^-12
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
65
Incident Energy (eV)
52-Te-120

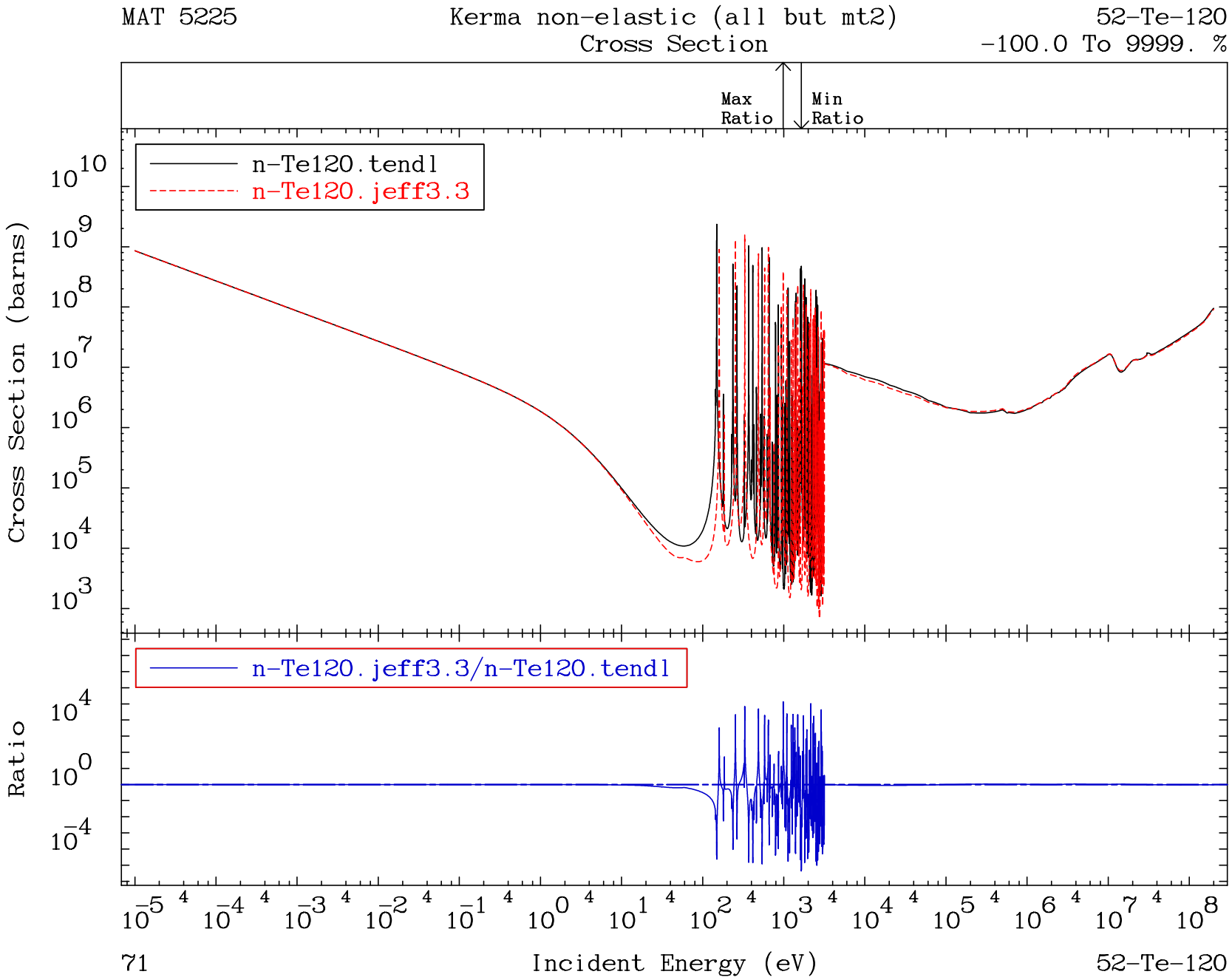

MAT 5225
Tritium Production
Cross Section
52-Te-120
-32.43 To -5.924%
Min Ratio
Max Ratio
n-Te120.tendl Threshold 8.3197 MeV
n-Te120.jeff3.3 Threshold 8.3197 MeV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
0.9
0.8
0.7
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
66
Incident Energy (eV)
52-Te-120

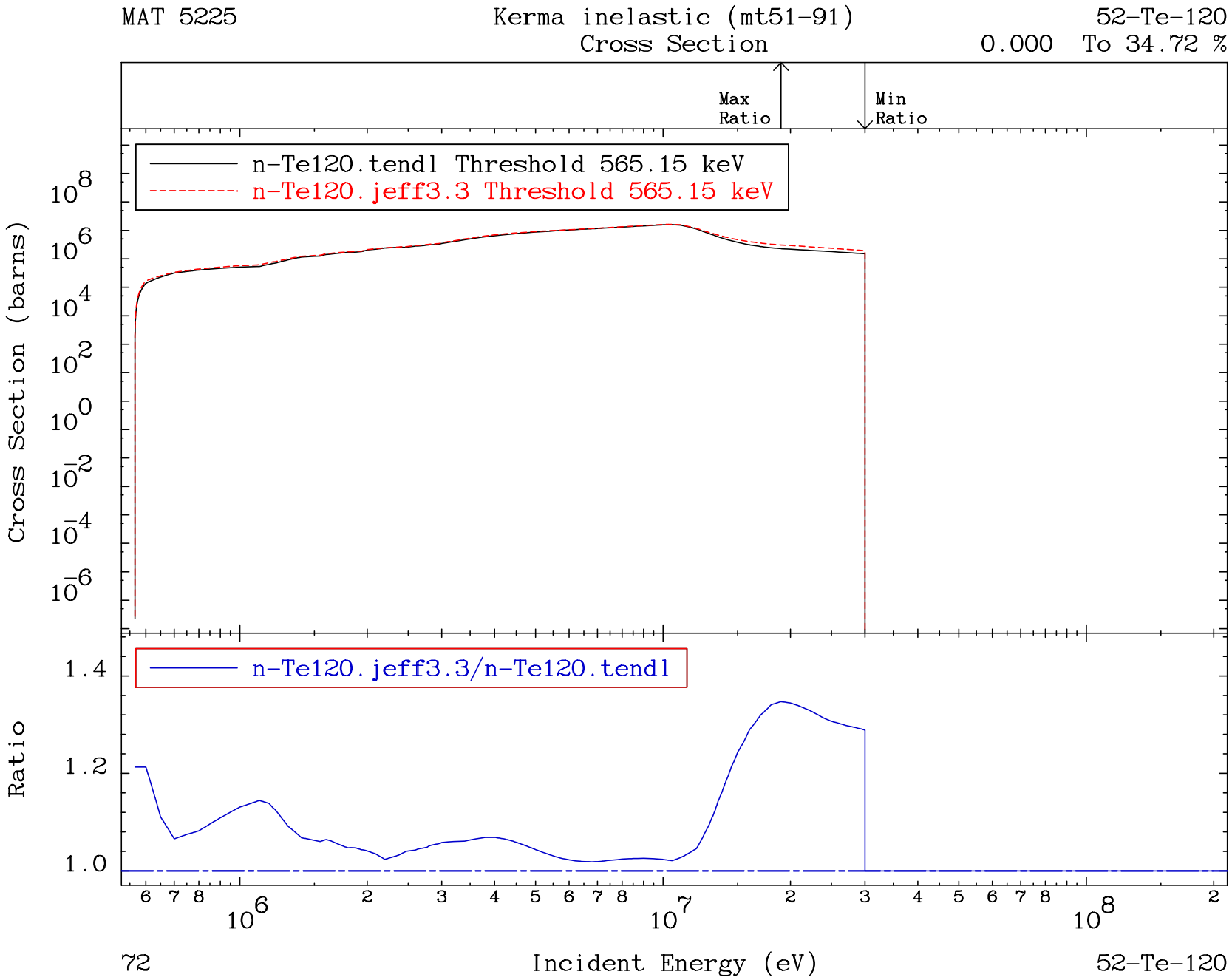

MAT 5225
He-3 Production
Cross Section
52-Te-120
-54.66 To -7.575%
Min
Ratio
Max
Ratio
n-Te120.tendl Threshold 4.6000 MeV
n-Te120.jeff3.3 Threshold 4.6137 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Te120.jeff3.3/n-Te120.tendl
1.0
0.8
0.6
Ratio
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
67
Incident Energy (eV)
52-Te-120

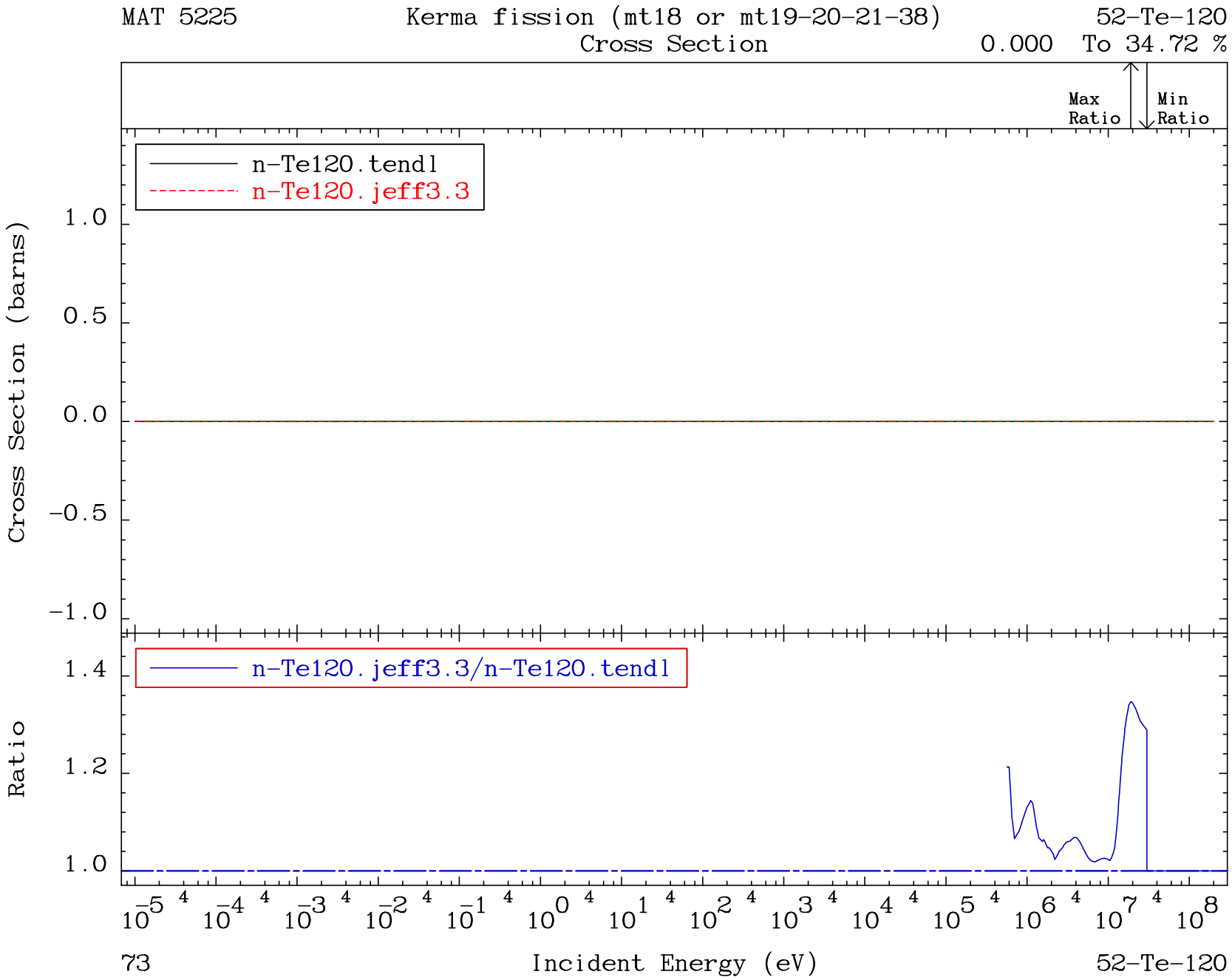

MAT 5225
He-4 Production
Cross Section
52-Te-120
-34.53 To 2235. %
Max
Ratio
Min
Ratio
n-Te120.tendl
n-Te120.jeff3.3
Cross Section (barns)
n-Te120.jeff3.3/n-Te120.tendl
Ratio
68
Incident Energy (eV)
52-Te-120

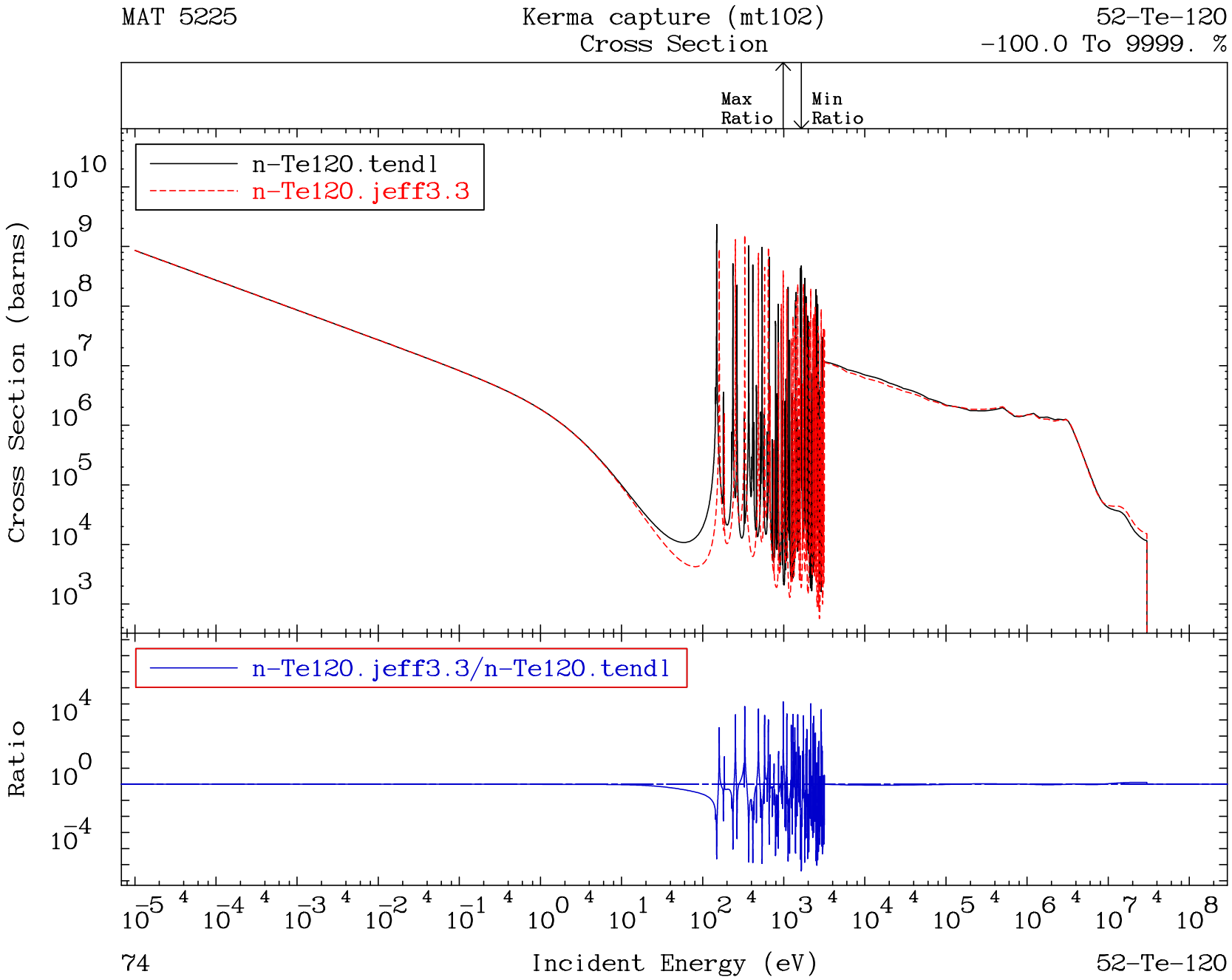

MAT 5225
Kerma total (eV-barns)
Cross Section
52-Te-120
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Te120.tendl
n-Te120.jeff3.3
Cross Section (barns)
n-Te120.jeff3.3/n-Te120.tendl
Ratio
69
Incident Energy (eV)
52-Te-120

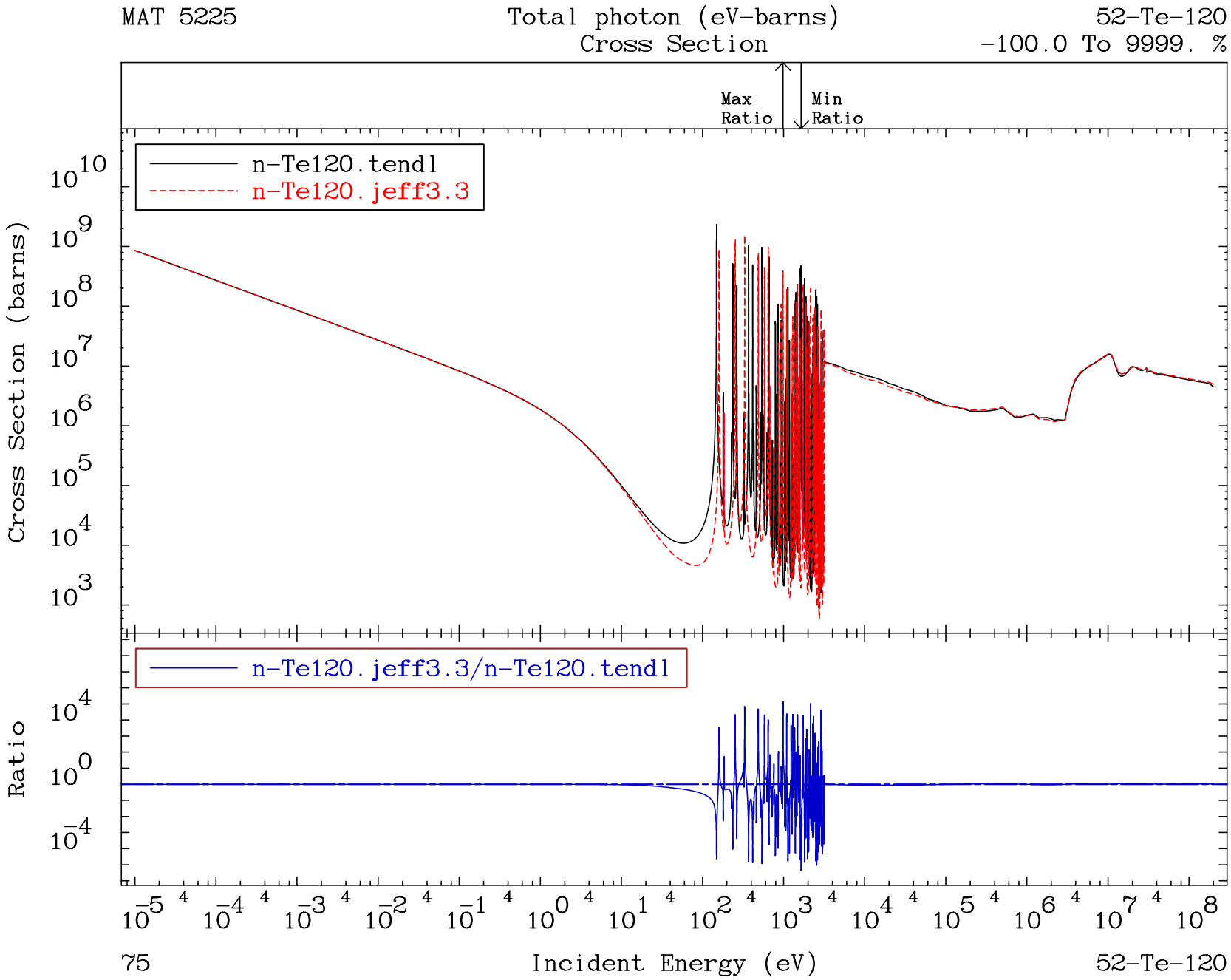

MAT 5225
Kerma elastic
Cross Section
52-Te-120
-94.37 To 3320. %
Max
Ratio
Min
Ratio
n-Te120.tendl
n-Te120.jeff3.3
Cross Section (barns)
Ratio
n-Te120.jeff3.3/n-Te120.tendl
Incident Energy (eV)
70
52-Te-120

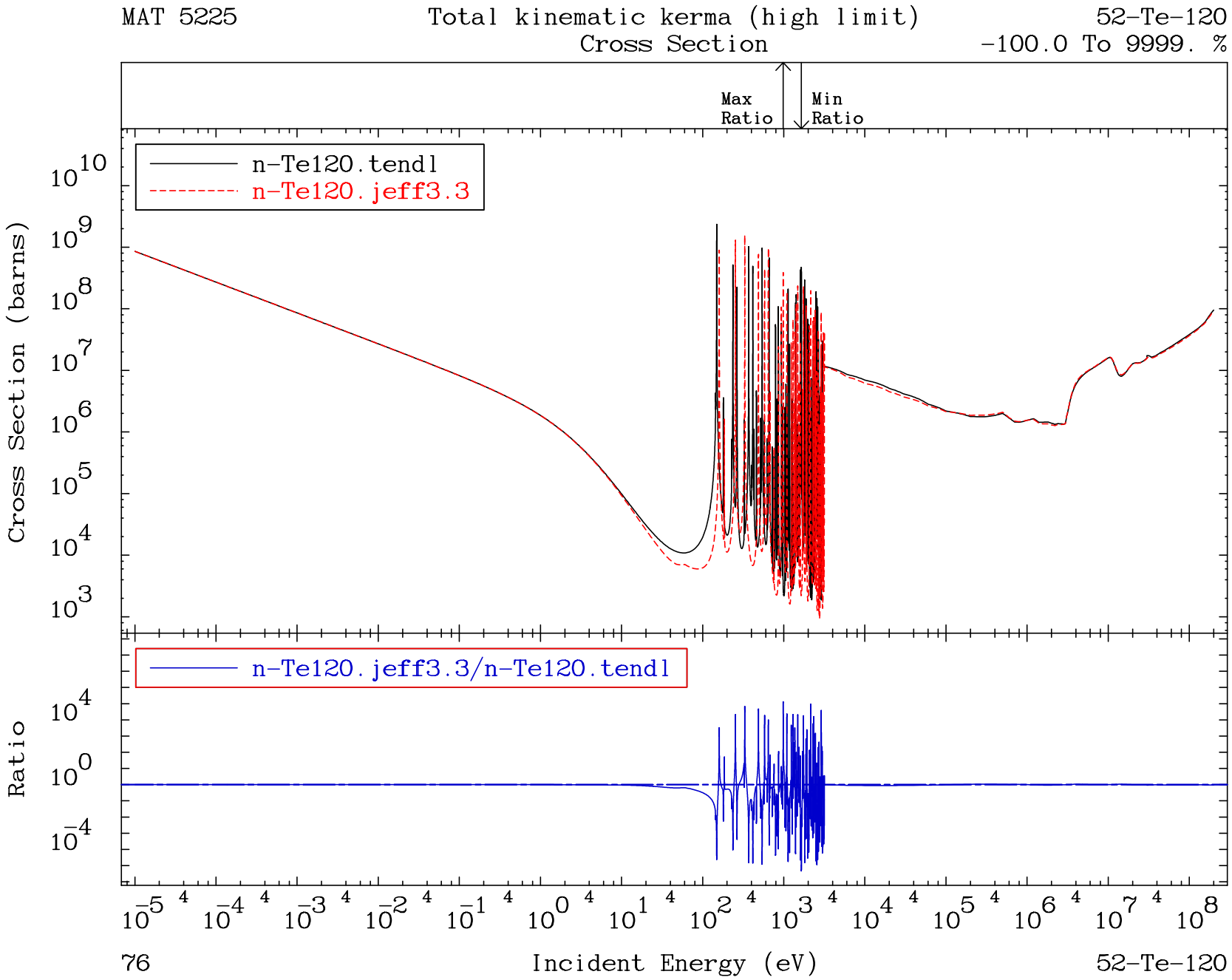

MAT 5225
Kerma non-elastic (all but mt2)
Cross Section
52-Te-120
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Te120.tendl
n-Te120.jeff3.3
Cross Section (barns)
n-Te120.jeff3.3/n-Te120.tendl
Ratio
Incident Energy (eV)
71
52-Te-120

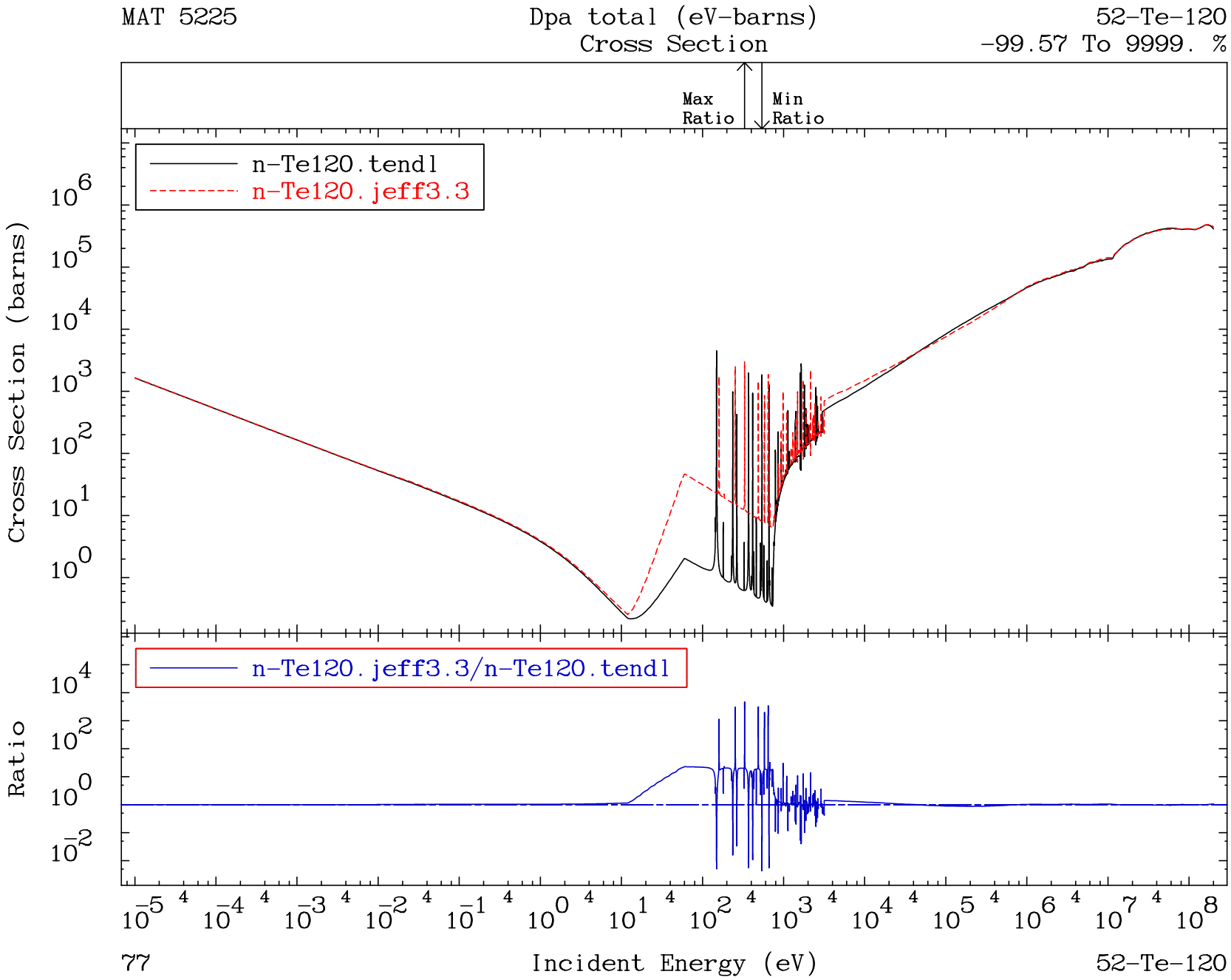

MAT 5225
Kerma inelastic (mt51-91)
Cross Section
52-Te-120
0.000 To 34.72 %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 565.15 keV
n-Te120.jeff3.3 Threshold 565.15 keV
Cross Section (barns)
n-Te120.jeff3.3/n-Te120.tendl
Ratio
Incident Energy (eV)
72
52-Te-120

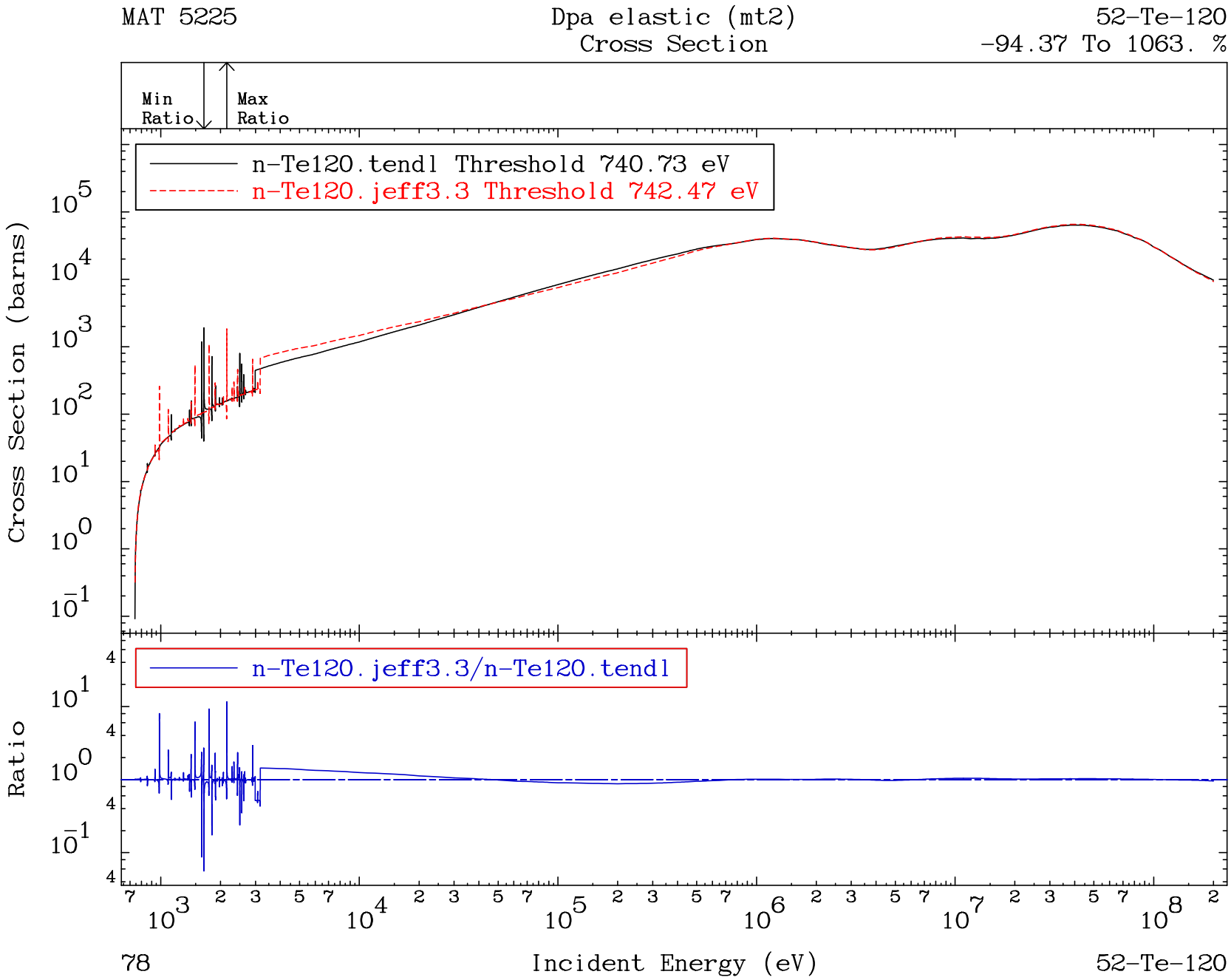

MAT 5225
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
52-Te-120
0.000 To 34.72 %
Max Ratio
Min Ratio
n-Te120.tendl
n-Te120.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.4
1.2
1.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
73
Incident Energy (eV)
52-Te-120

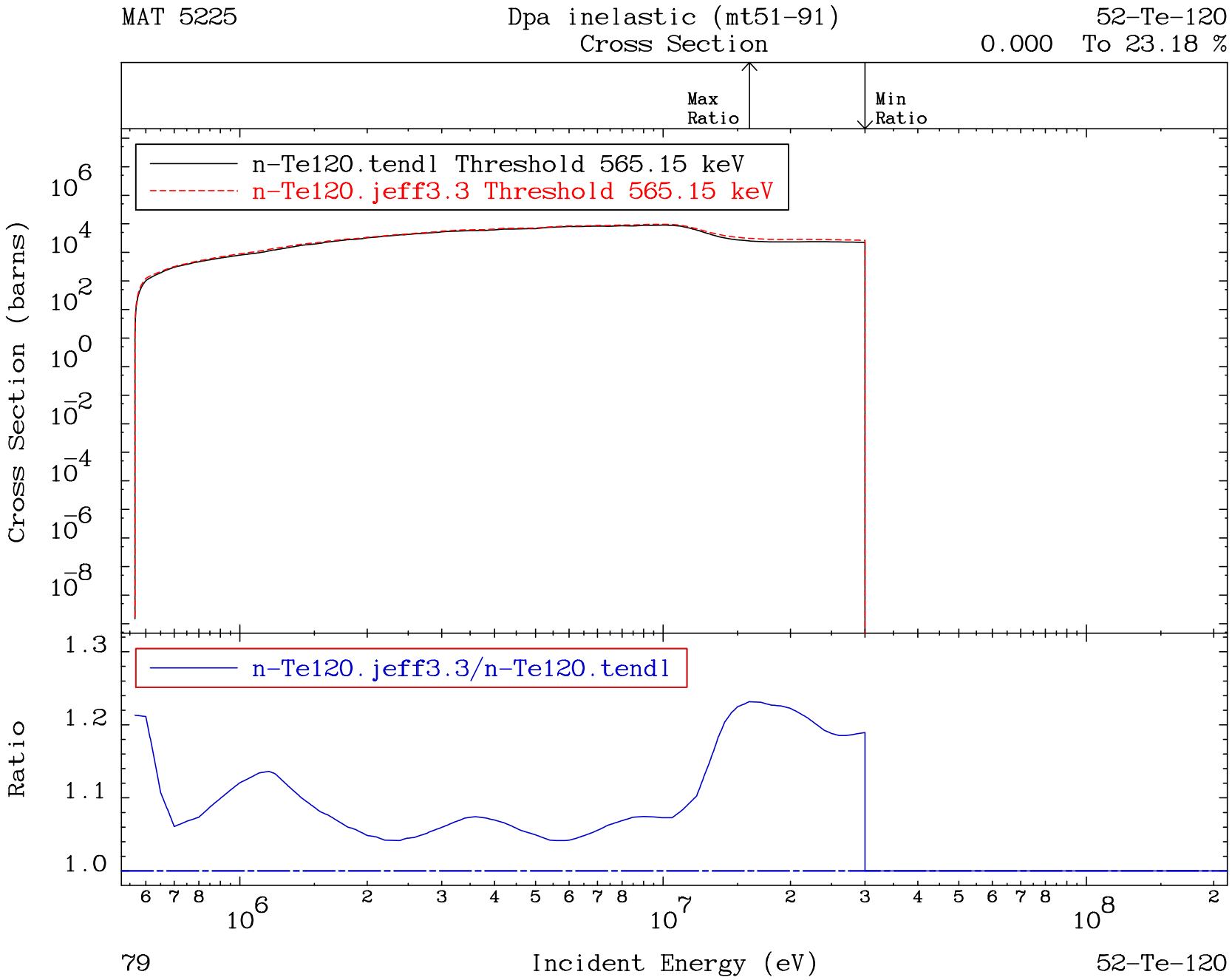

MAT 5225
Kerma capture (mt102)
Cross Section
52-Te-120
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Te120.tendl
n-Te120.jeff3.3
Cross Section (barns)
n-Te120.jeff3.3/n-Te120.tendl
Ratio
Incident Energy (eV)
74
52-Te-120

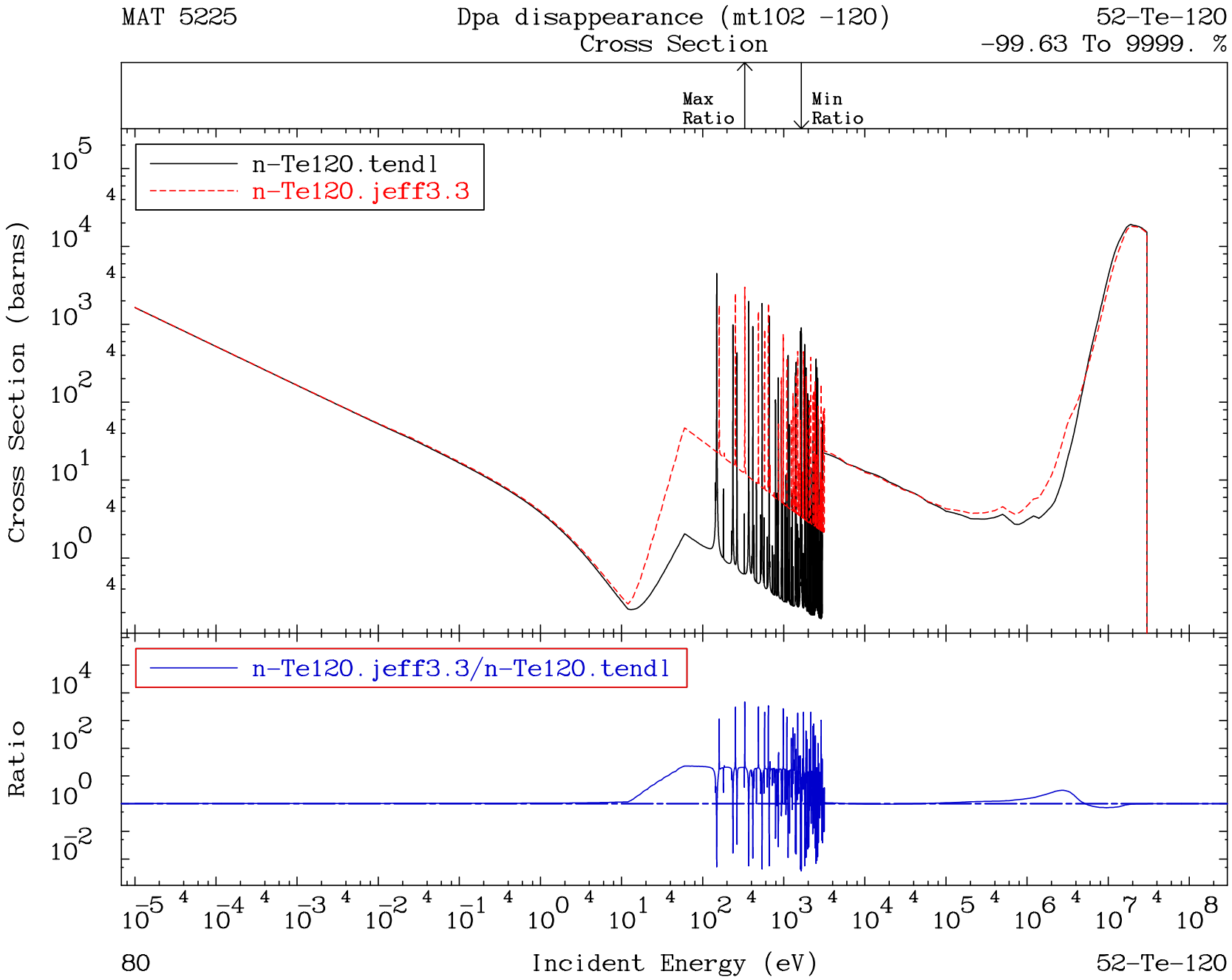

MAT 5225
Total photon (eV-barns)
Cross Section
52-Te-120
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Te120.tendl
n-Te120.jeff3.3
Cross Section (barns)
n-Te120.jeff3.3/n-Te120.tendl
Ratio
Incident Energy (eV)
75
52-Te-120

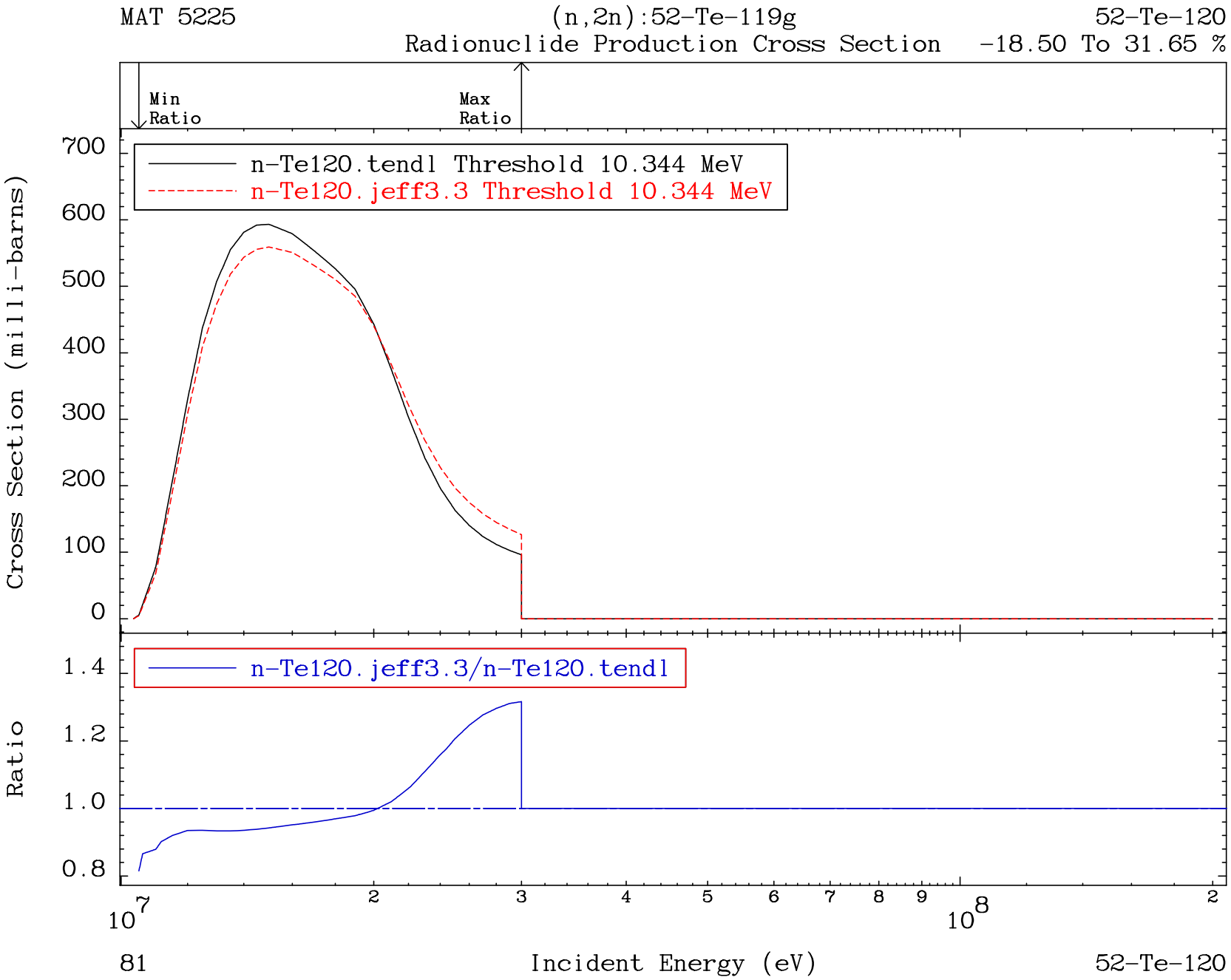

MAT 5225
Total kinematic kerma (high limit)
Cross Section
52-Te-120
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Te120.tendl
n-Te120.jeff3.3
Cross Section (barns)
n-Te120.jeff3.3/n-Te120.tendl
Ratio
Incident Energy (eV)
76
52-Te-120

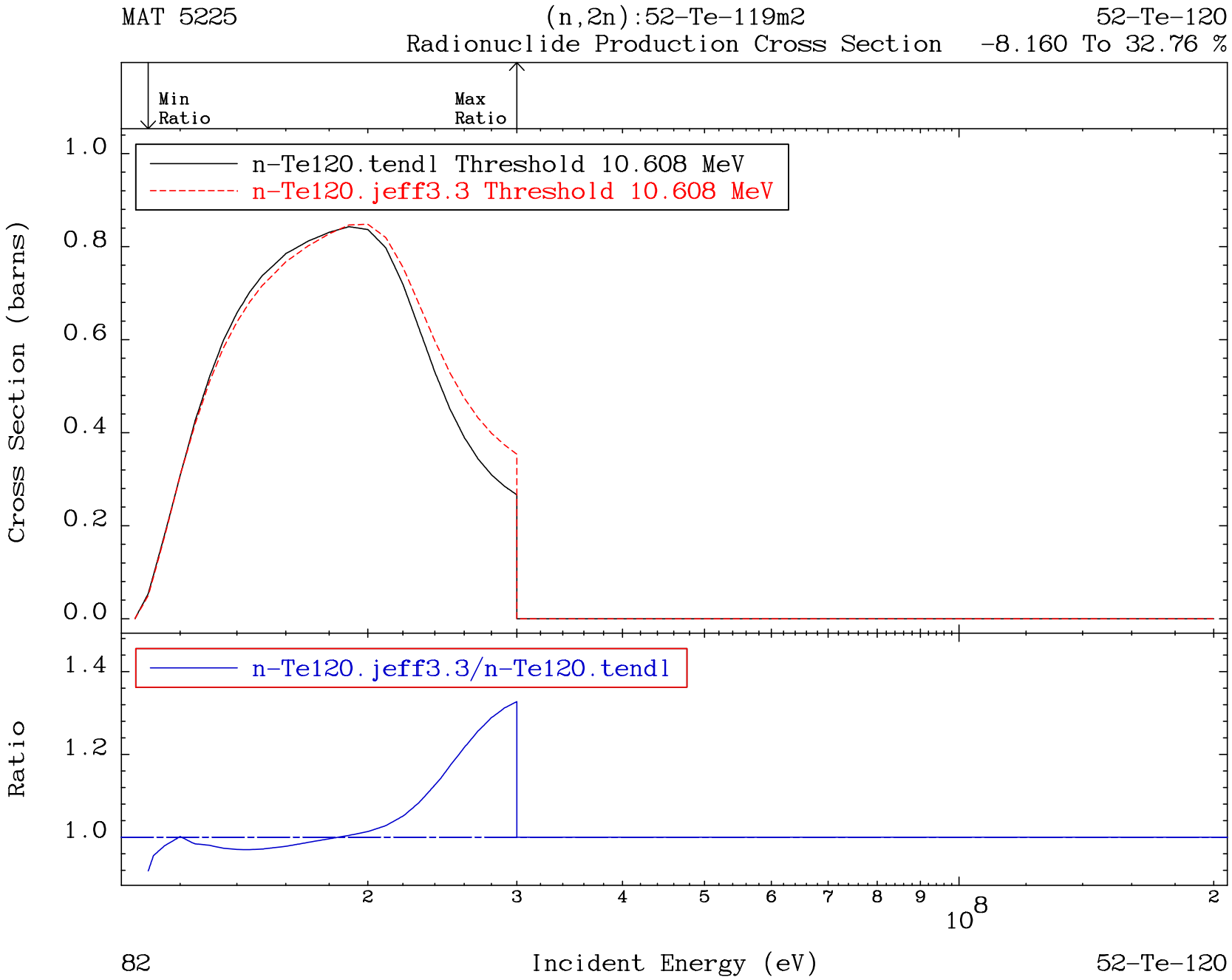

MAT 5225
Dpa total (eV-barns)
Cross Section
52-Te-120
-99.57 To 9999. %
Max Ratio
Min Ratio
n-Te120.tendl
n-Te120.jeff3.3
Cross Section (barns)
n-Te120.jeff3.3/n-Te120.tendl
Ratio
Incident Energy (eV)
77
52-Te-120

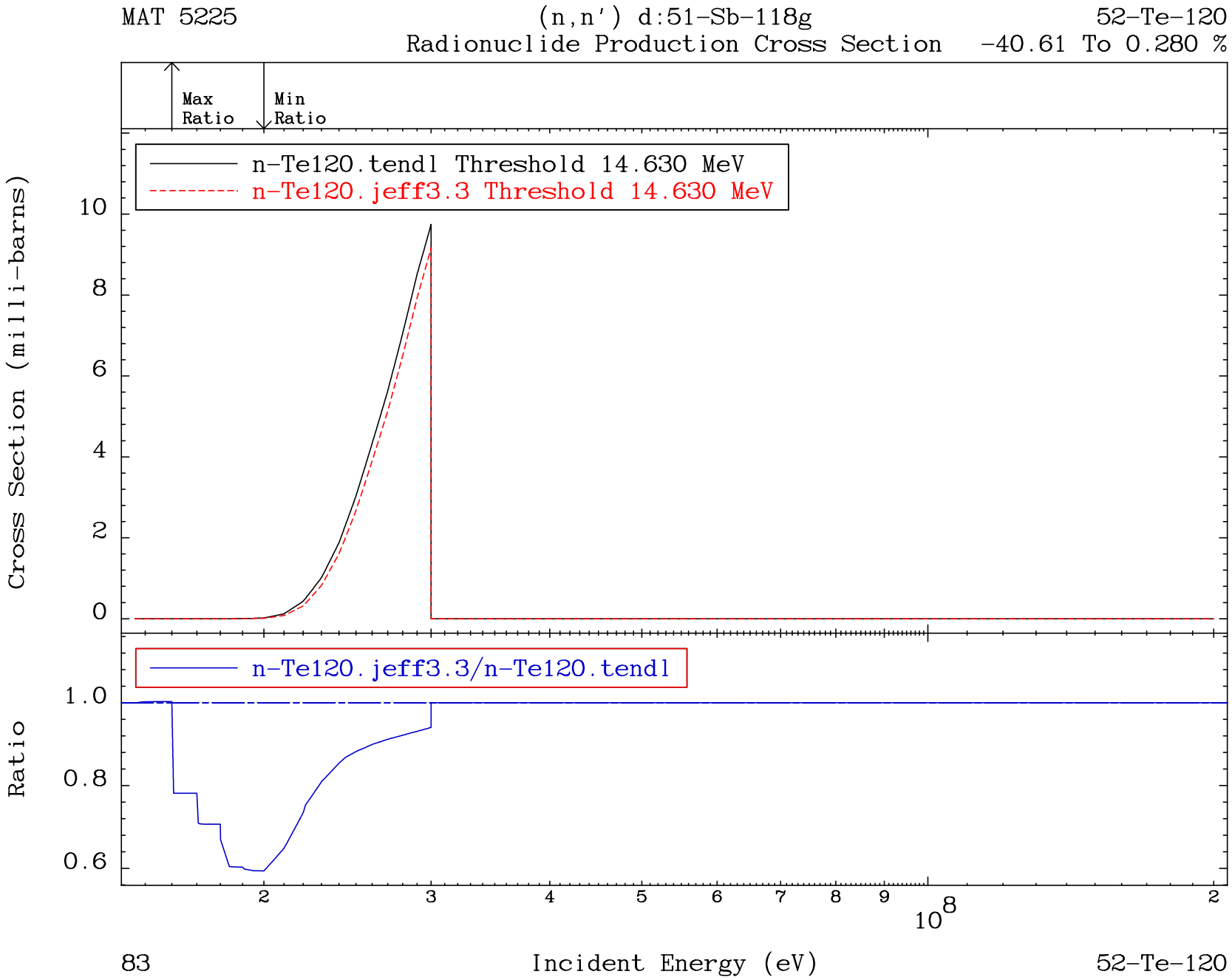

MAT 5225
Dpa elastic (mt2)
Cross Section
52-Te-120
-94.37 To 1063. %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 740.73 eV
n-Te120.jeff3.3 Threshold 742.47 eV
Cross Section (barns)
n-Te120.jeff3.3/n-Te120.tendl
Ratio
Incident Energy (eV)
78
52-Te-120

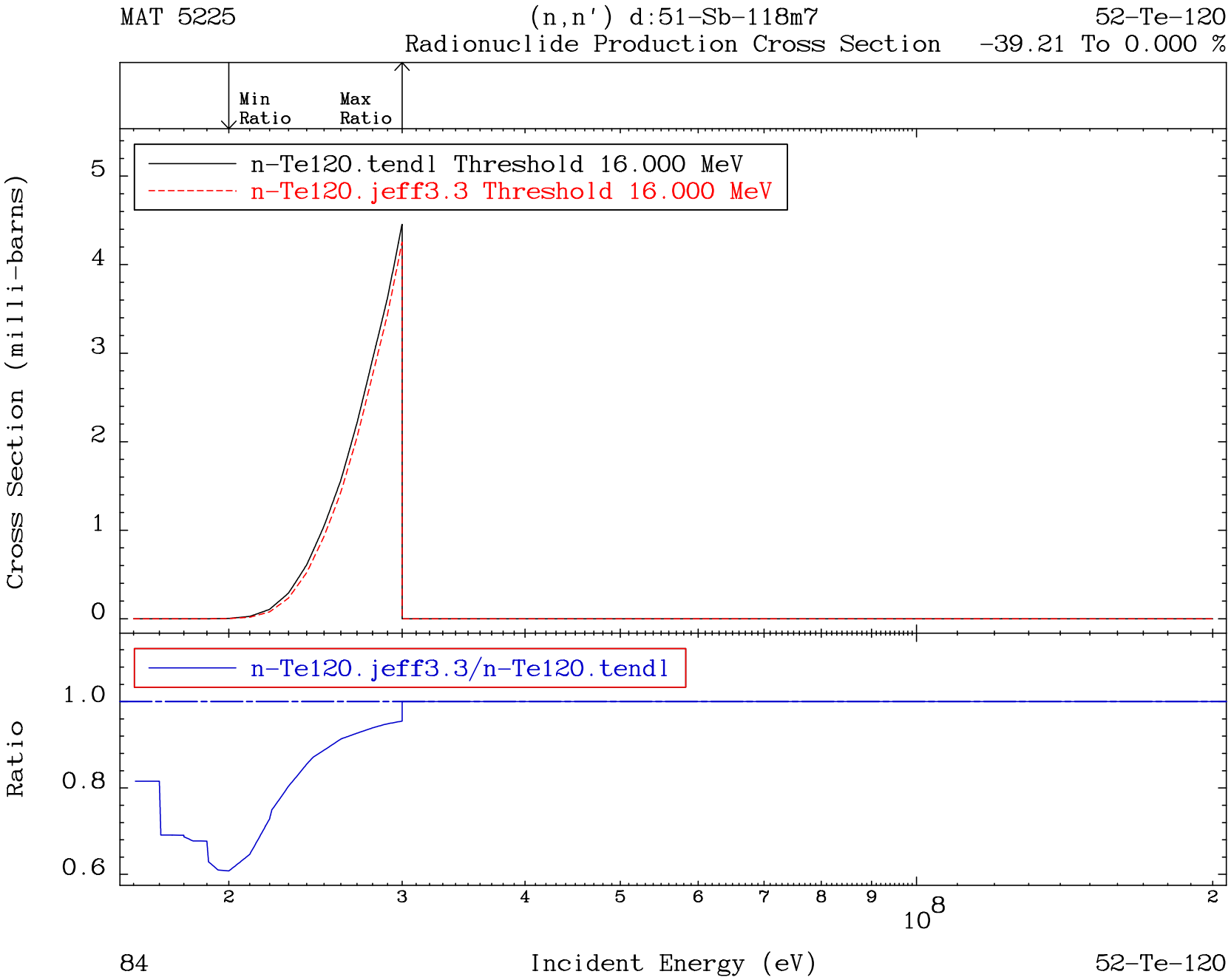

MAT 5225
Dpa inelastic (mt51-91)
Cross Section
52-Te-120
0.000 To 23.18 %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 565.15 keV
n-Te120.jeff3.3 Threshold 565.15 keV
Cross Section (barns)
n-Te120.jeff3.3/n-Te120.tendl
Ratio
Incident Energy (eV)
79
52-Te-120

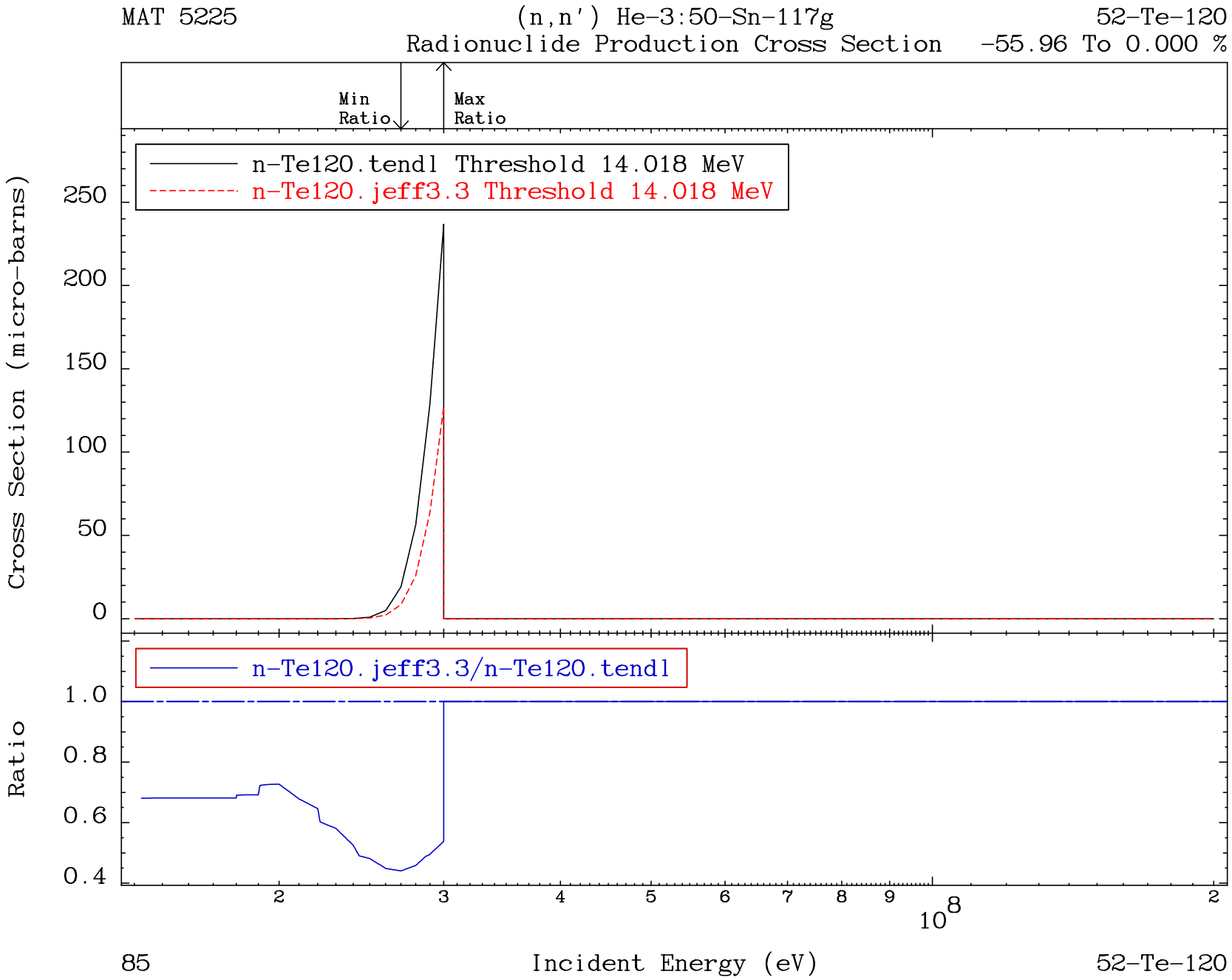

MAT 5225
Dpa disappearance (mt102 -120)
Cross Section
52-Te-120
-99.63 To 9999. %
Max Ratio
Min Ratio
n-Te120.tendl
n-Te120.jeff3.3
Cross Section (barns)
n-Te120.jeff3.3/n-Te120.tendl
Ratio
Incident Energy (eV)
80
52-Te-120

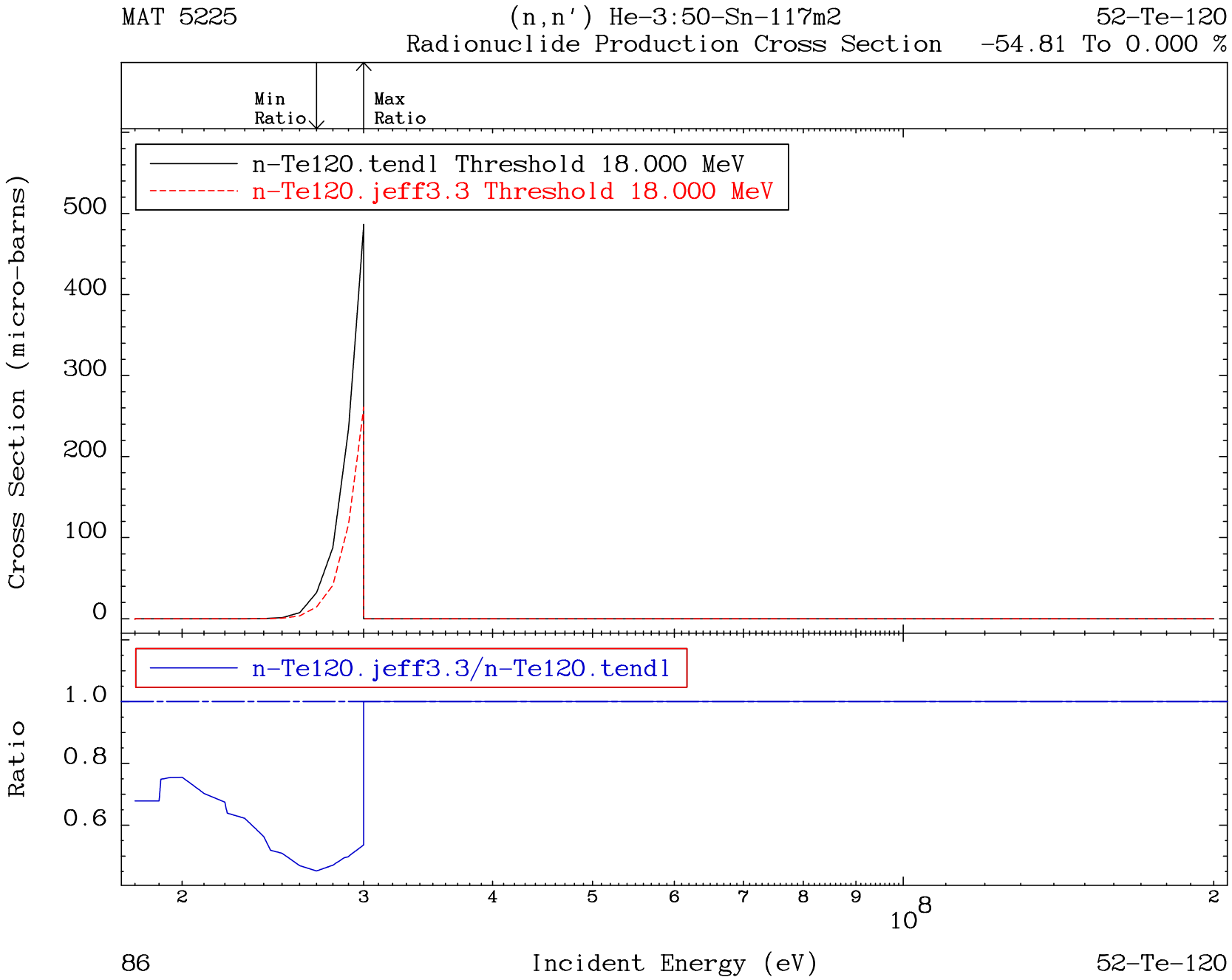

MAT 5225
(n,2n):52-Te-119g
52-Te-120
Radionuclide Production Cross Section -18.50 To 31.65 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 10.344 MeV
n-Te120.jeff3.3 Threshold 10.344 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.4
1.2
1.0
0.8
10^7
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
52-Te-120

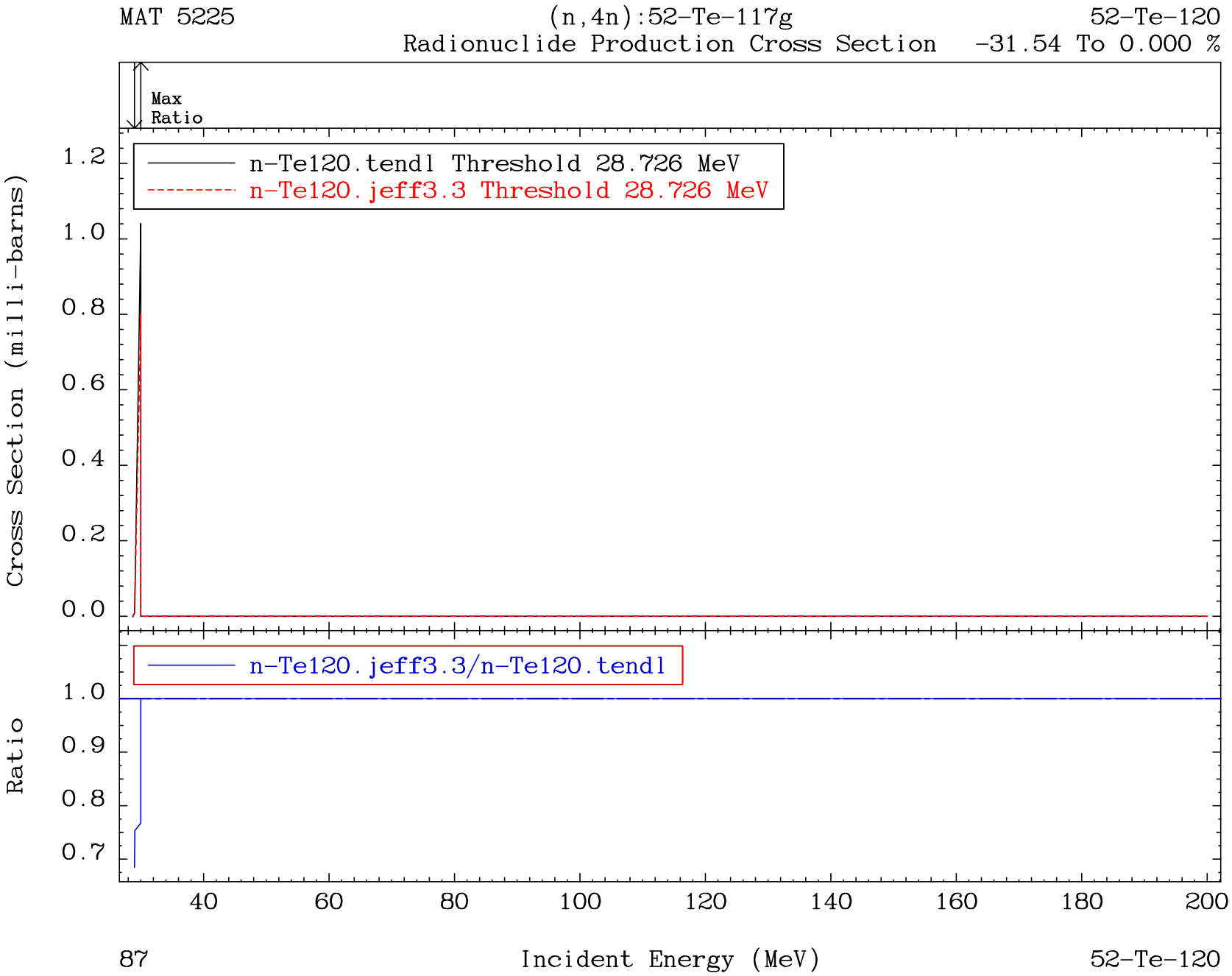

MAT 5225
(n,2n):52-Te-119m2
52-Te-120
Radionuclide Production Cross Section
-8.160 To 32.76 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 10.608 MeV
n-Te120.jeff3.3 Threshold 10.608 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
82
Incident Energy (eV)
52-Te-120

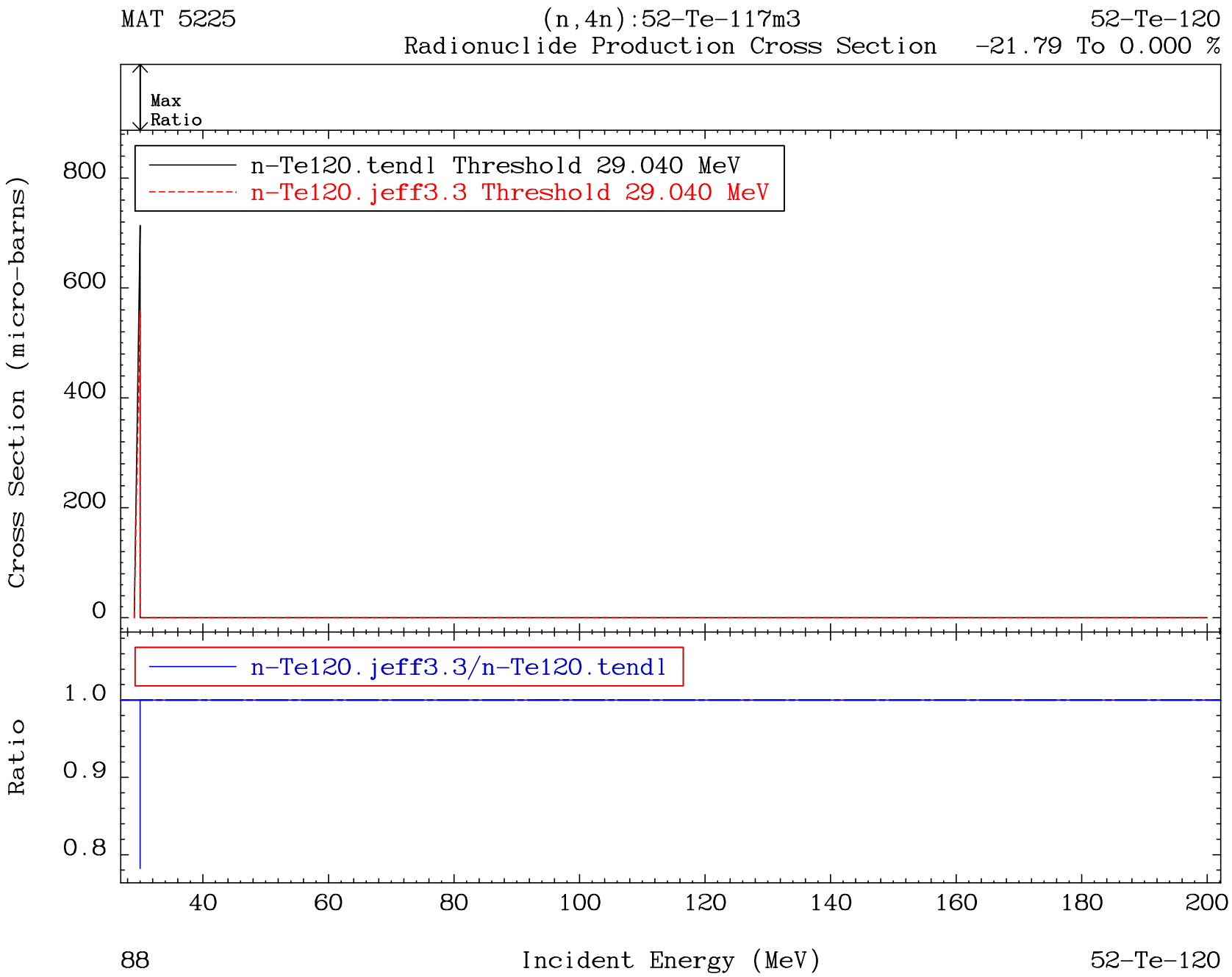

MAT 5225
(n,n') d:51-Sb-118g
52-Te-120
Radionuclide Production Cross Section -40.61 To 0.280 %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 14.630 MeV
n-Te120.jeff3.3 Threshold 14.630 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
0.8
0.6
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
52-Te-120

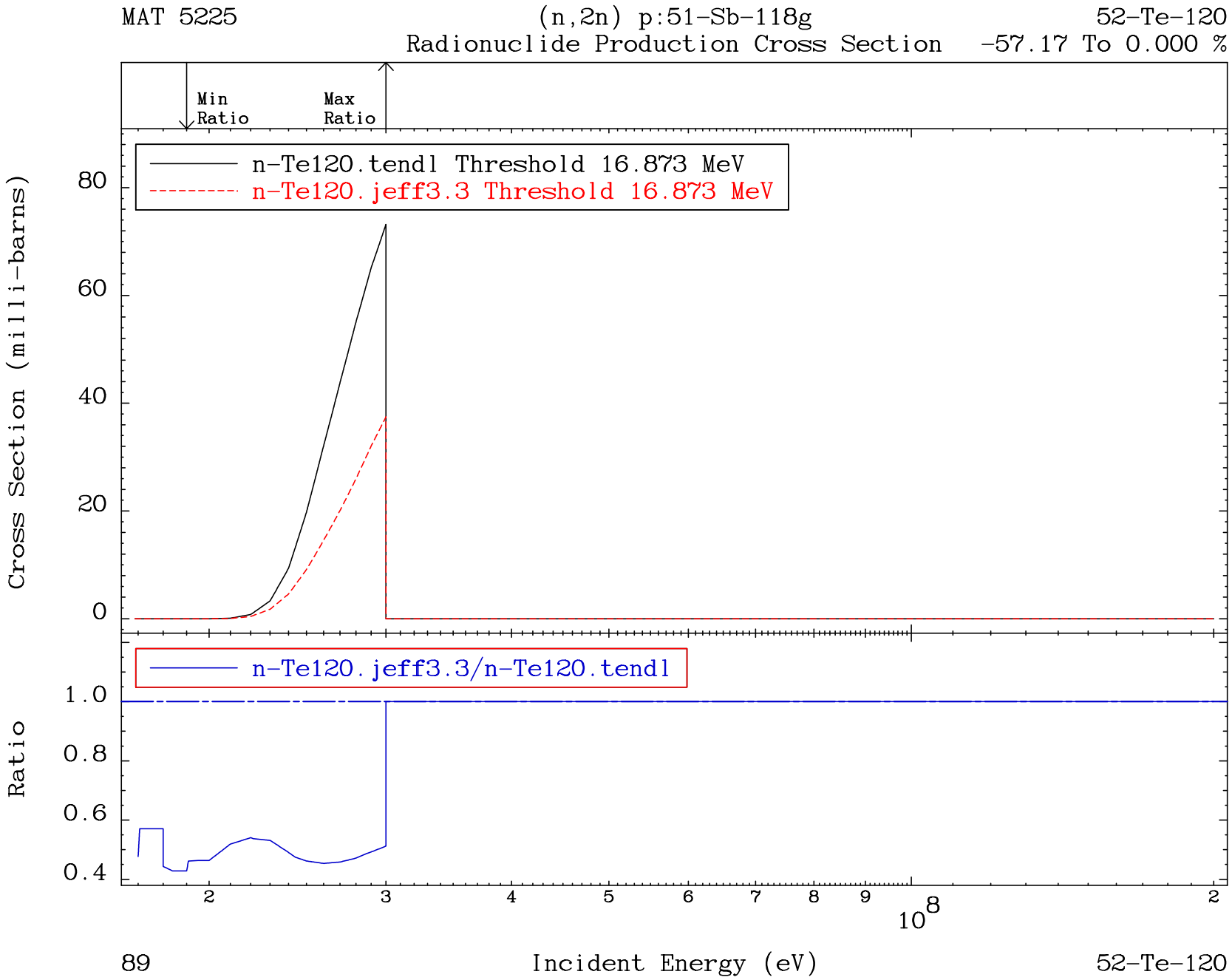

MAT 5225
(n,n') d:51-Sb-118m7
52-Te-120
Radionuclide Production Cross Section -39.21 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 16.000 MeV
n-Te120.jeff3.3 Threshold 16.000 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Te120.jeff3.3/n-Te120.tendl
Ratio
0.6
0.8
1.0
2
3
4
5
6
7
8
9
2
10^8
84
Incident Energy (eV)
52-Te-120

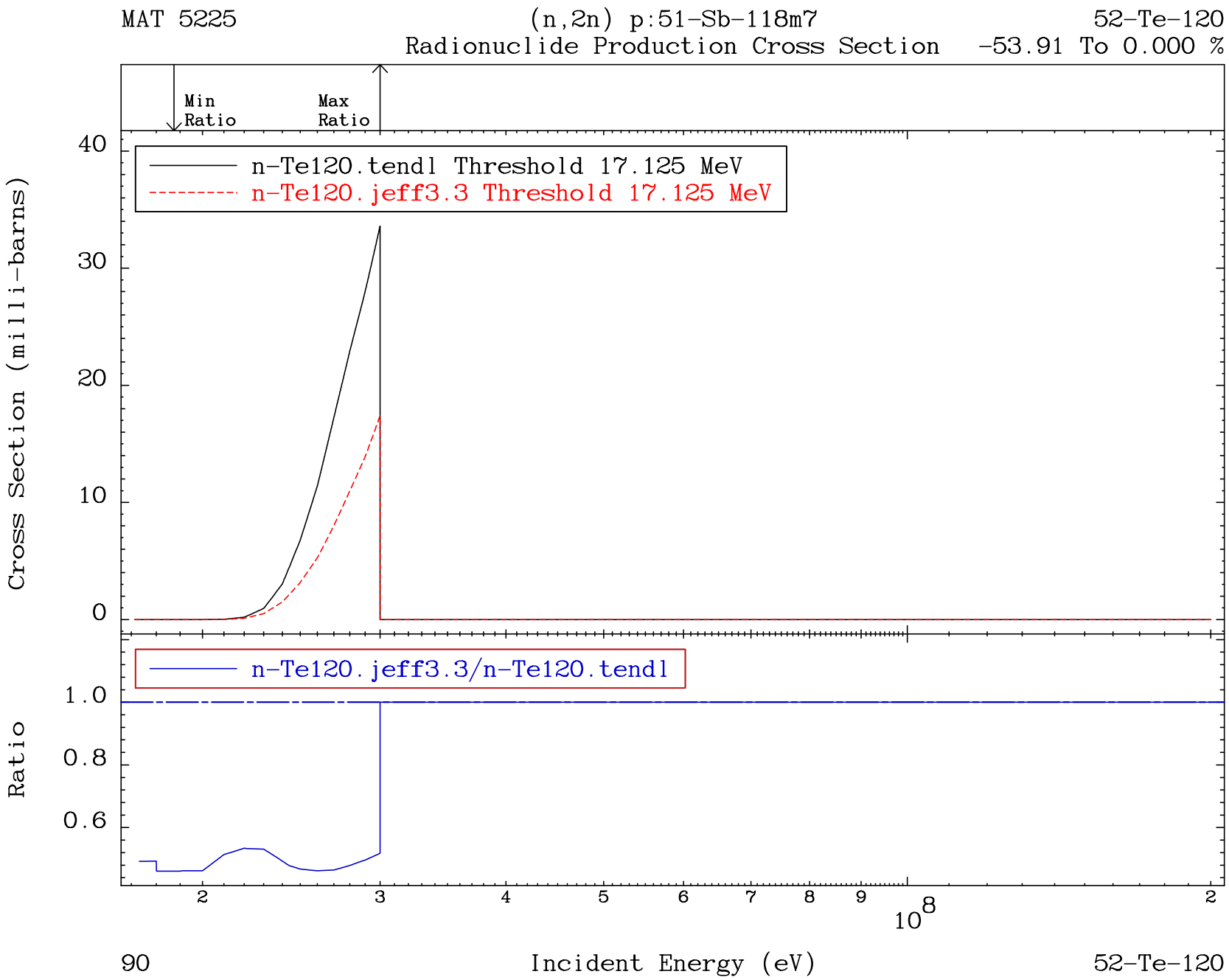

MAT 5225
(n,n') He-3:50-Sn-117g
52-Te-120
Radionuclide Production Cross Section
-55.96 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 14.018 MeV
n-Te120.jeff3.3 Threshold 14.018 MeV
Cross Section (micro-barns)
250
200
150
100
50
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
0.8
0.6
0.4
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
52-Te-120

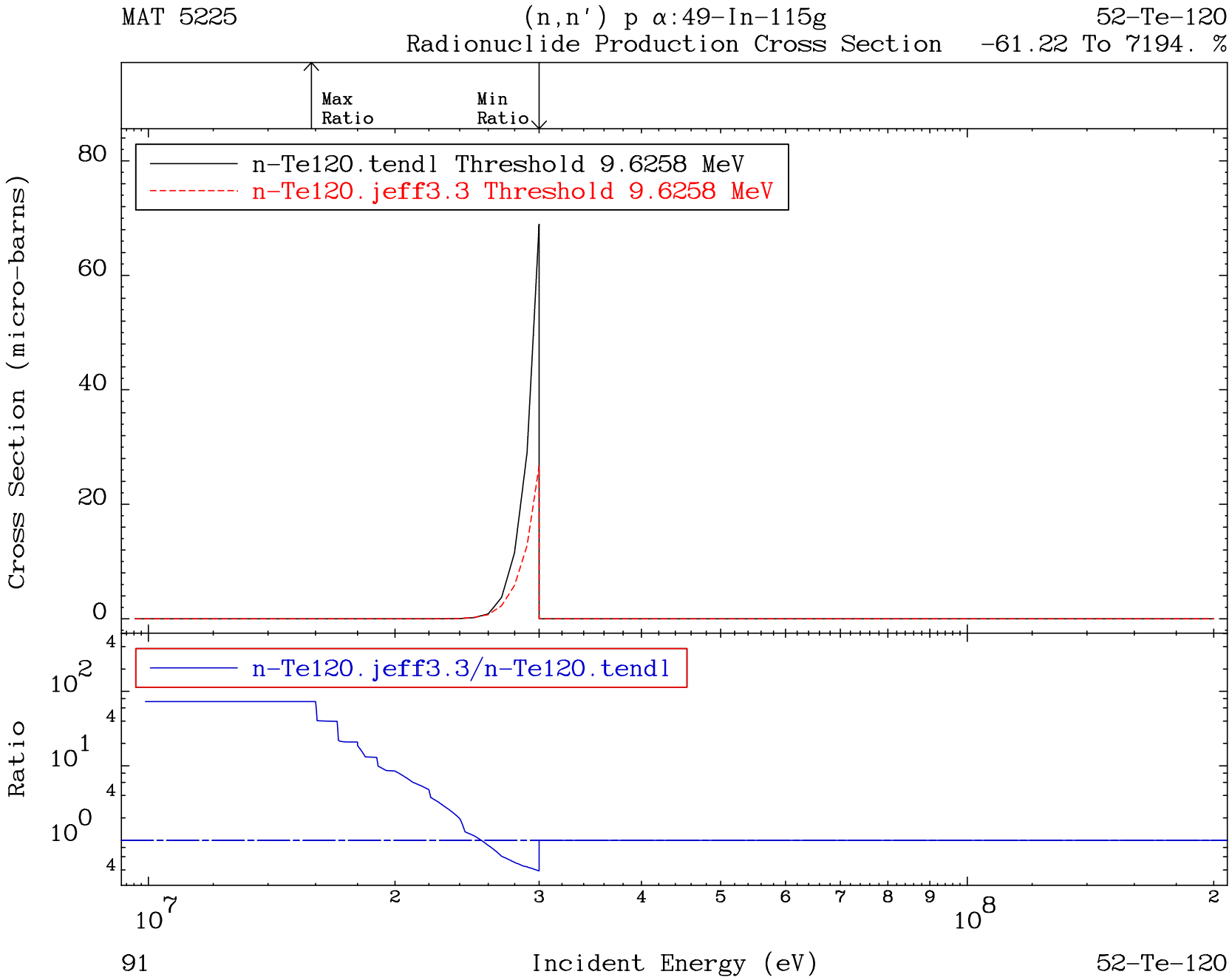

MAT 5225
(n,n') He-3:50-Sn-117m2
52-Te-120
Radionuclide Production Cross Section
-54.81 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 18.000 MeV
n-Te120.jeff3.3 Threshold 18.000 MeV
Cross Section (micro-barns)
500
400
300
200
100
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
0.8
0.6
2
3
4
5
6
7
8
9
10^8
2
86
Incident Energy (eV)
52-Te-120

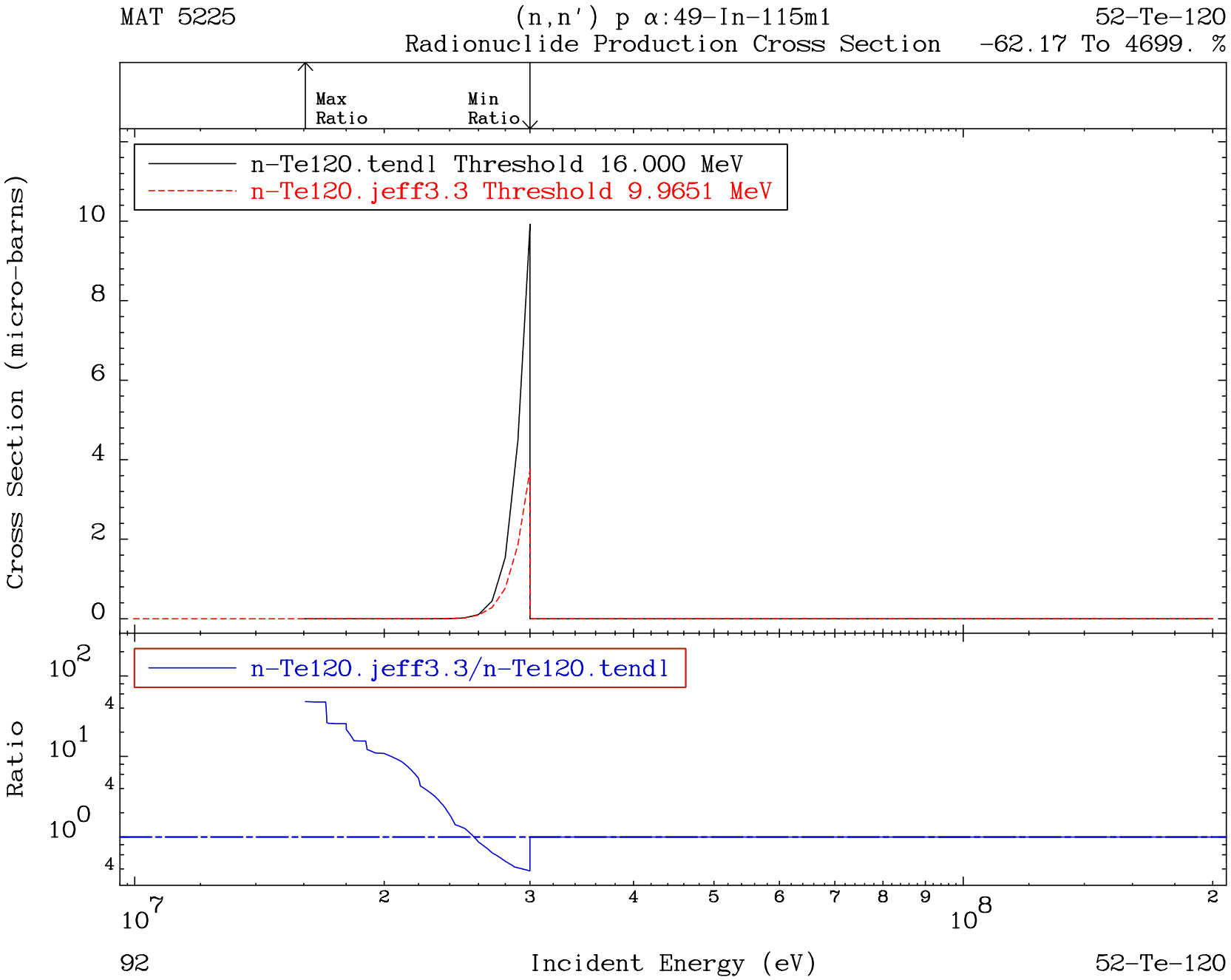

MAT 5225
(n,4n):52-Te-117g
52-Te-120
Radionuclide Production Cross Section -31.54 To 0.000 %
Max
Ratio
n-Te120.tendl Threshold 28.726 MeV
n-Te120.jeff3.3 Threshold 28.726 MeV
Cross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
0.9
0.8
0.7
40
60
80
100
120
140
160
180
200
87
Incident Energy (MeV)
52-Te-120

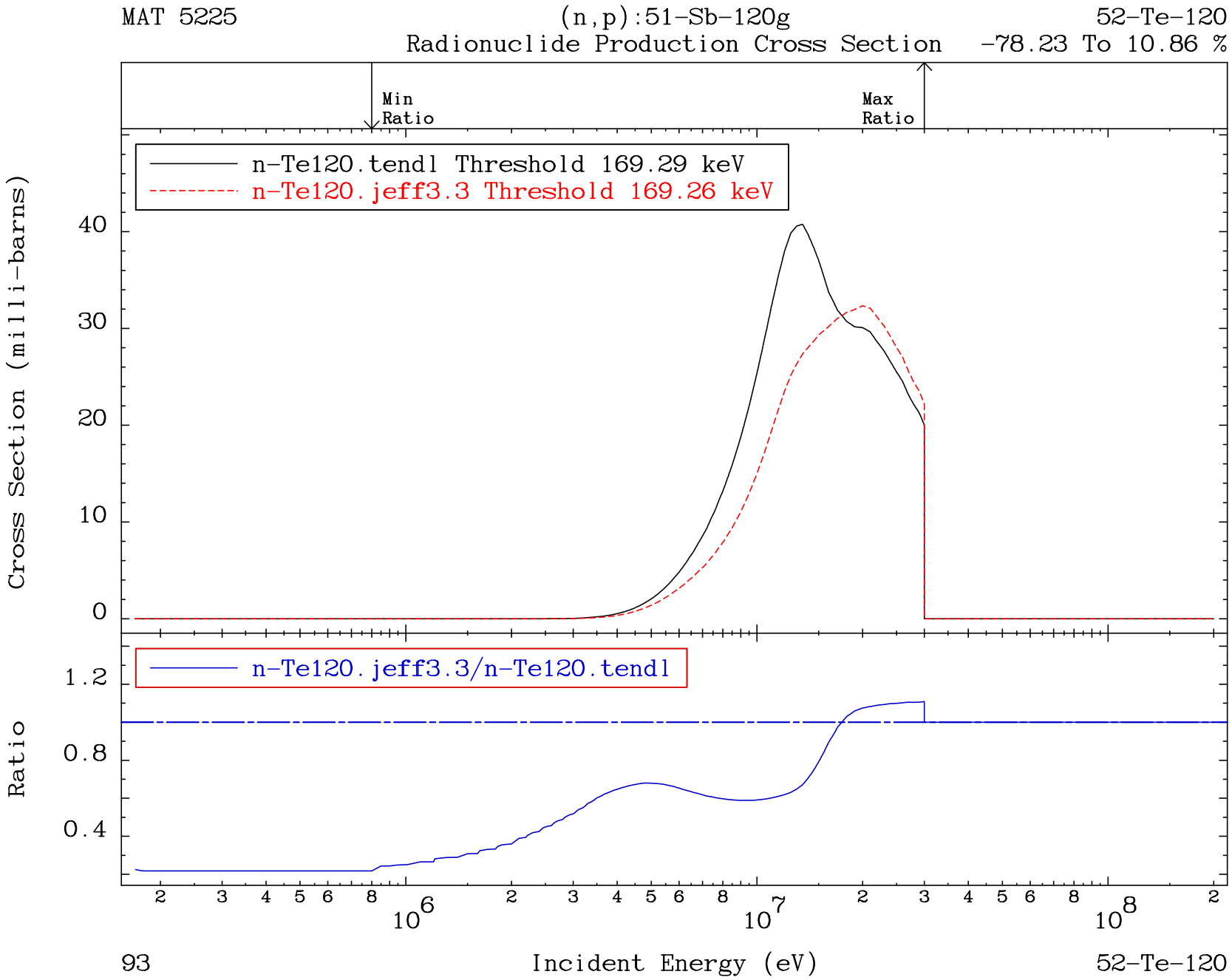

MAT 5225
(n,4n):52-Te-117m3
52-Te-120
Radionuclide Production Cross Section -21.79 To 0.000 %
Max
Ratio
n-Te120.tendl Threshold 29.040 MeV
n-Te120.jeff3.3 Threshold 29.040 MeV
Cross Section (micro-barns)
800
600
400
200
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
0.9
0.8
40
60
80
100
120
140
160
180
200
88
Incident Energy (MeV)
52-Te-120

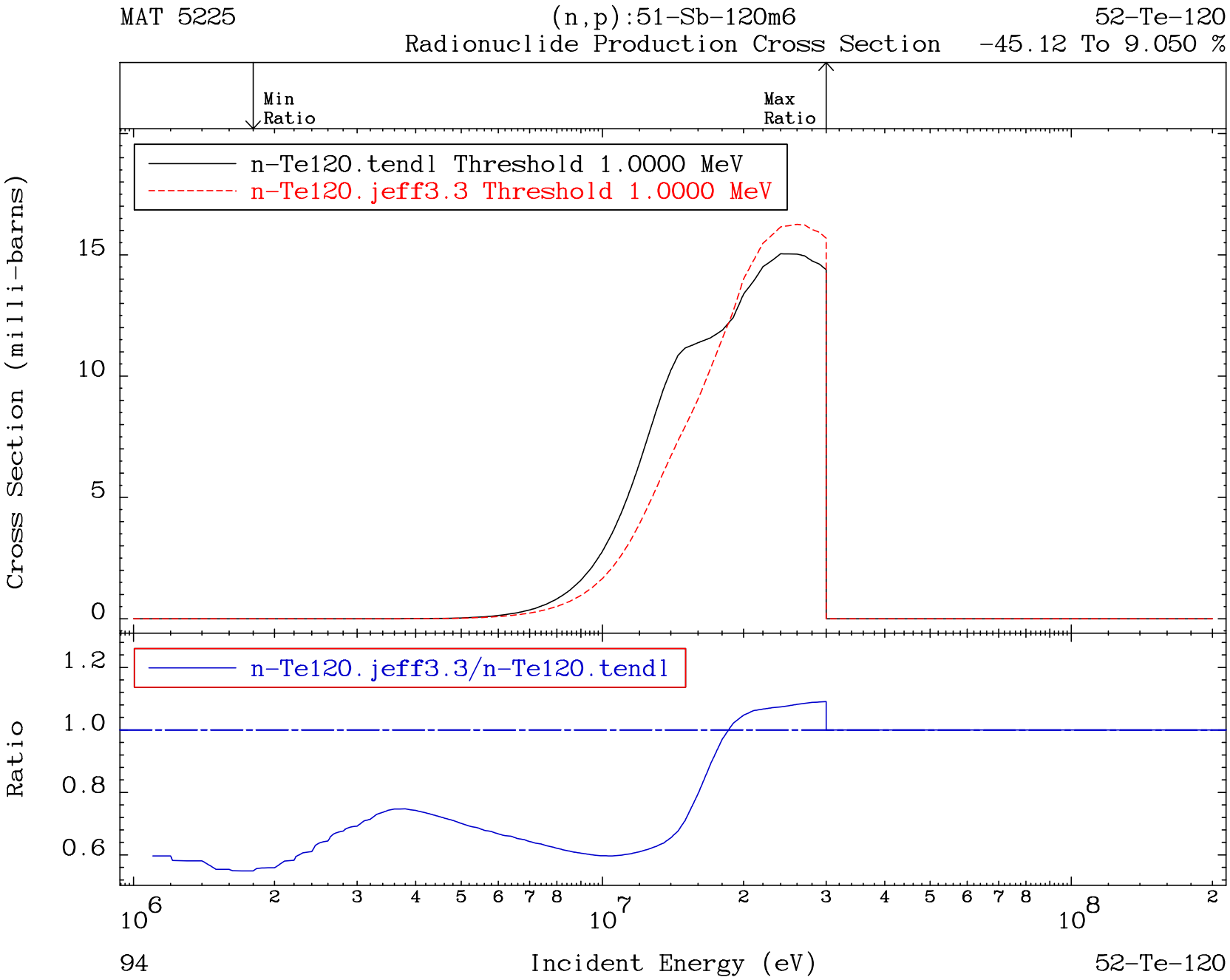

MAT 5225
(n,2n) p:51-Sb-118g
52-Te-120
Radionuclide Production Cross Section -57.17 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 16.873 MeV
n-Te120.jeff3.3 Threshold 16.873 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
0.8
0.6
0.4
2
3
4
5
6
7
8
9
10^8
2
89
Incident Energy (eV)
52-Te-120

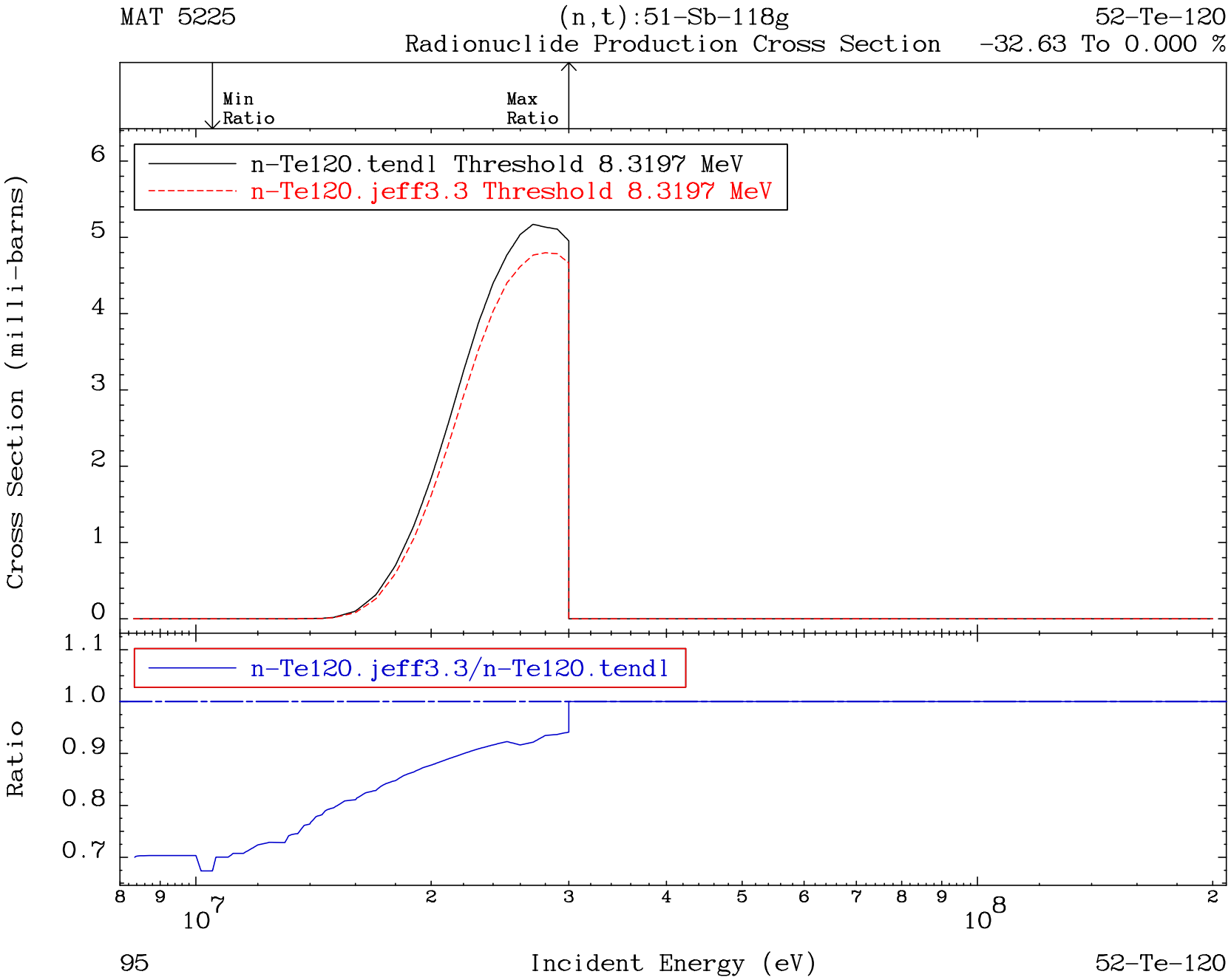

MAT 5225
(n,2n) p:51-Sb-118m7
52-Te-120
Radionuclide Production Cross Section
-53.91 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 17.125 MeV
n-Te120.jeff3.3 Threshold 17.125 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
0.8
0.6
2
3
4
5
6
7
8
9
10^8
2
90
Incident Energy (eV)
52-Te-120

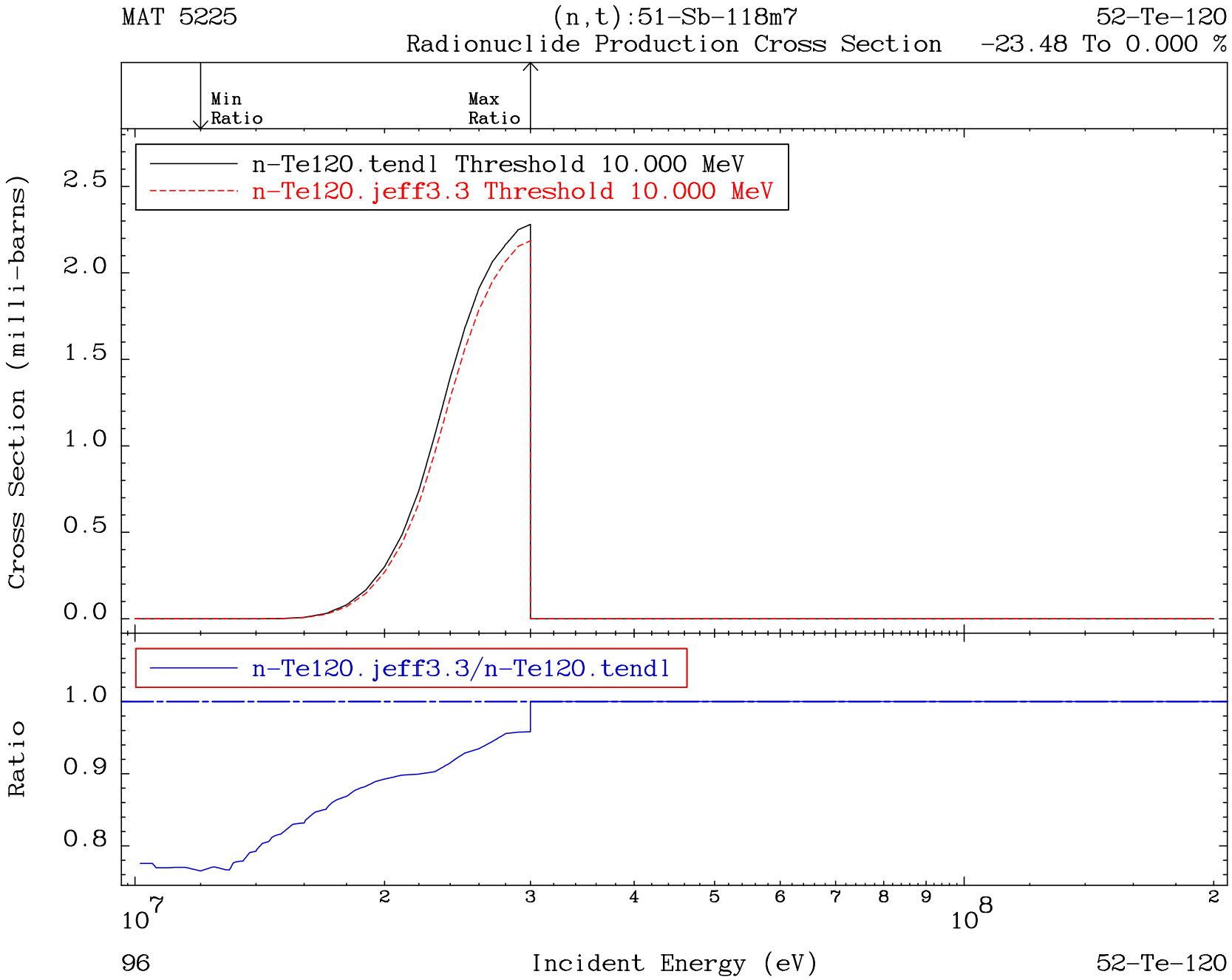

MAT 5225
(n,n') p α:49-In-115g
52-Te-120
Radionuclide Production Cross Section -61.22 To 7194. %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 9.6258 MeV
n-Te120.jeff3.3 Threshold 9.6258 MeV
Cross Section (micro-barns)
80
60
40
20
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
10^2
10^1
10^0
10^7
10^8
Incident Energy (eV)
91
52-Te-120

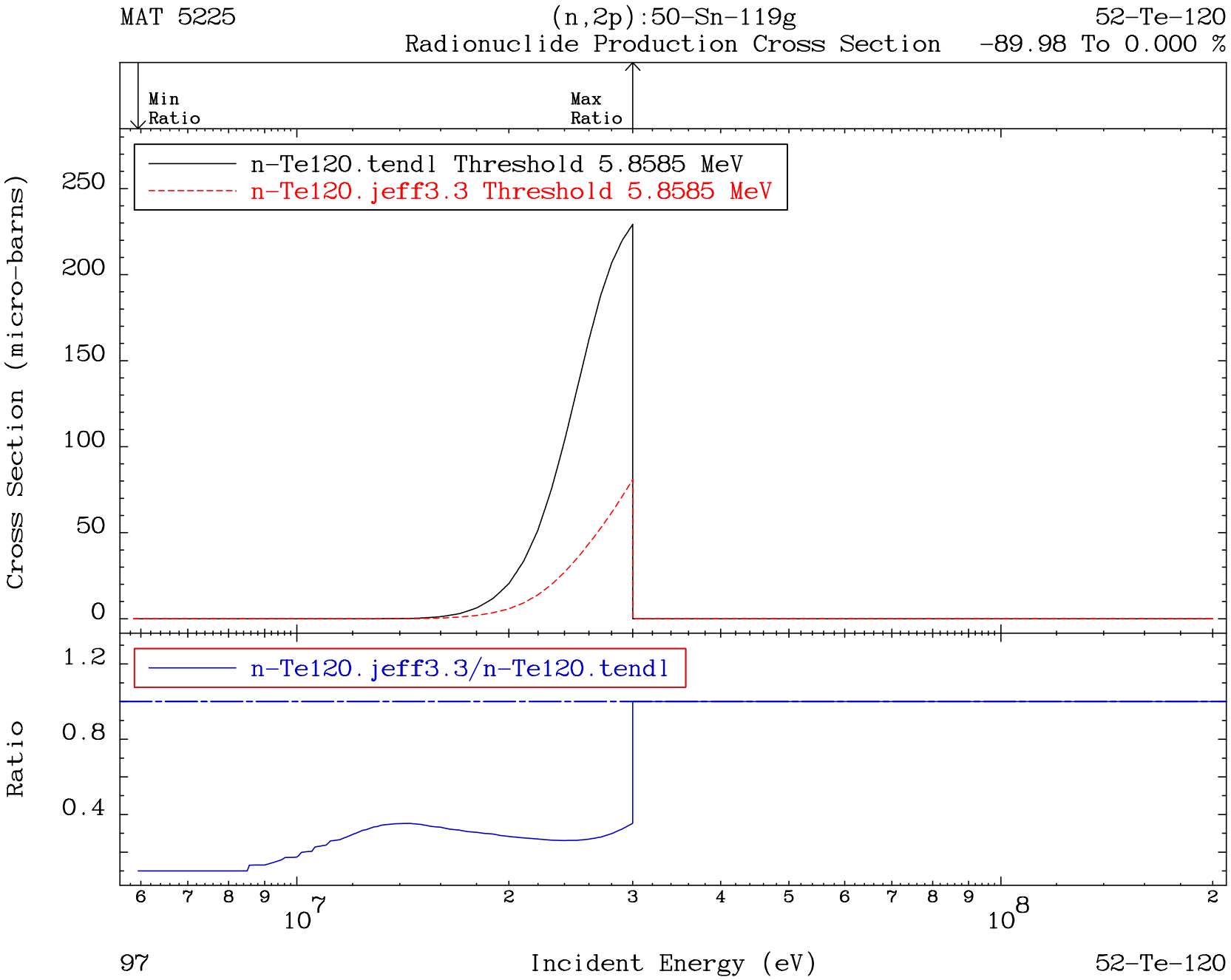

MAT 5225
(n,n') p α:49-In-115m1
52-Te-120
Radionuclide Production Cross Section -62.17 To 4699. %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 16.000 MeV
n-Te120.jeff3.3 Threshold 9.9651 MeV
Cross Section (micro-barns)
10
8
6
4
2
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
10^2
10^1
10^0
4
4
4
10^7
2
3
4
5
6
7
8
9
10^8
2
92
Incident Energy (eV)
52-Te-120

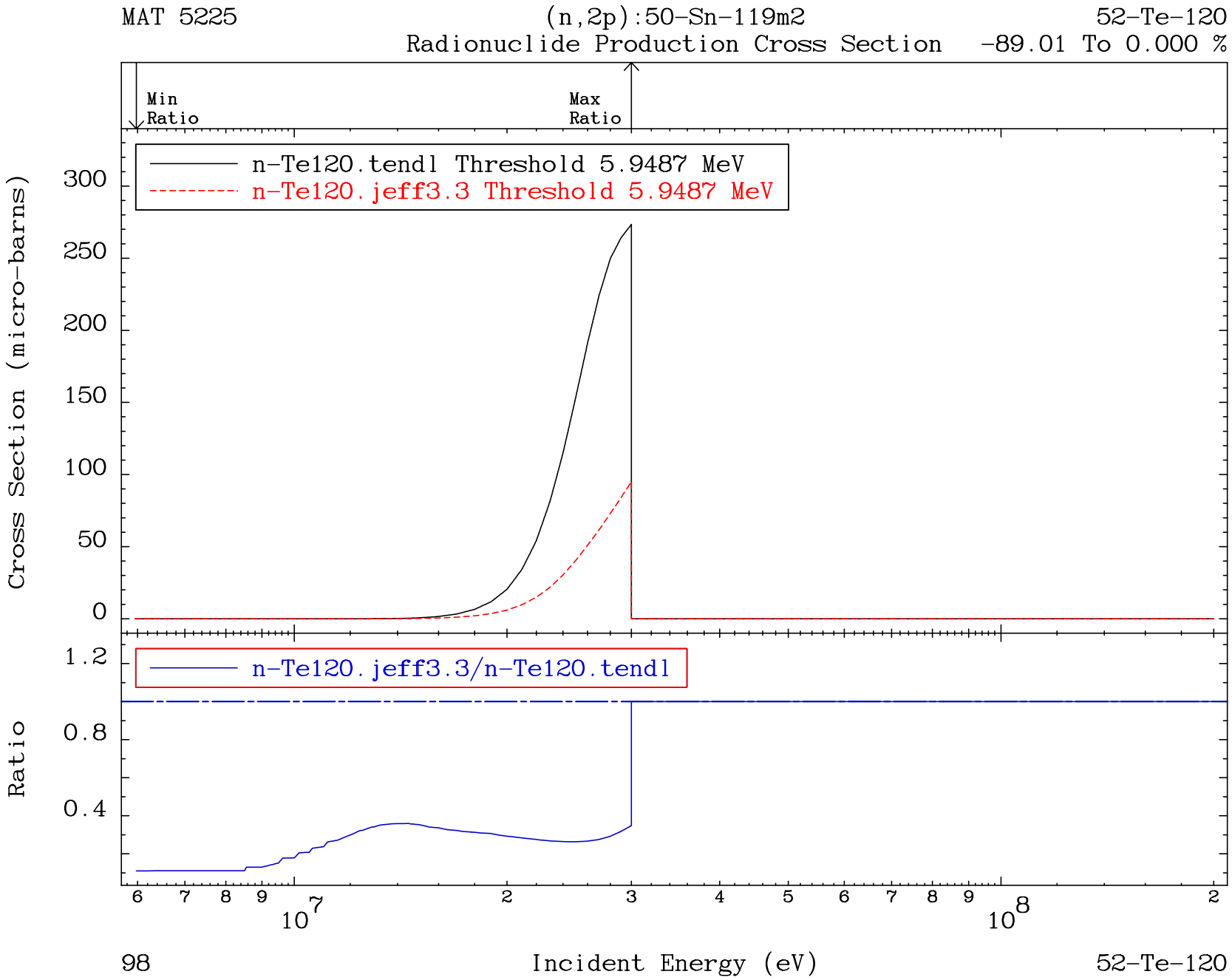

MAT 5225
(n,p):51-Sb-120g
52-Te-120
Radionuclide Production Cross Section
-78.23 To 10.86 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 169.29 keV
n-Te120.jeff3.3 Threshold 169.26 keV
Cross Section (milli-barns)
40
30
20
10
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
0.8
0.4
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
93
Incident Energy (eV)
52-Te-120

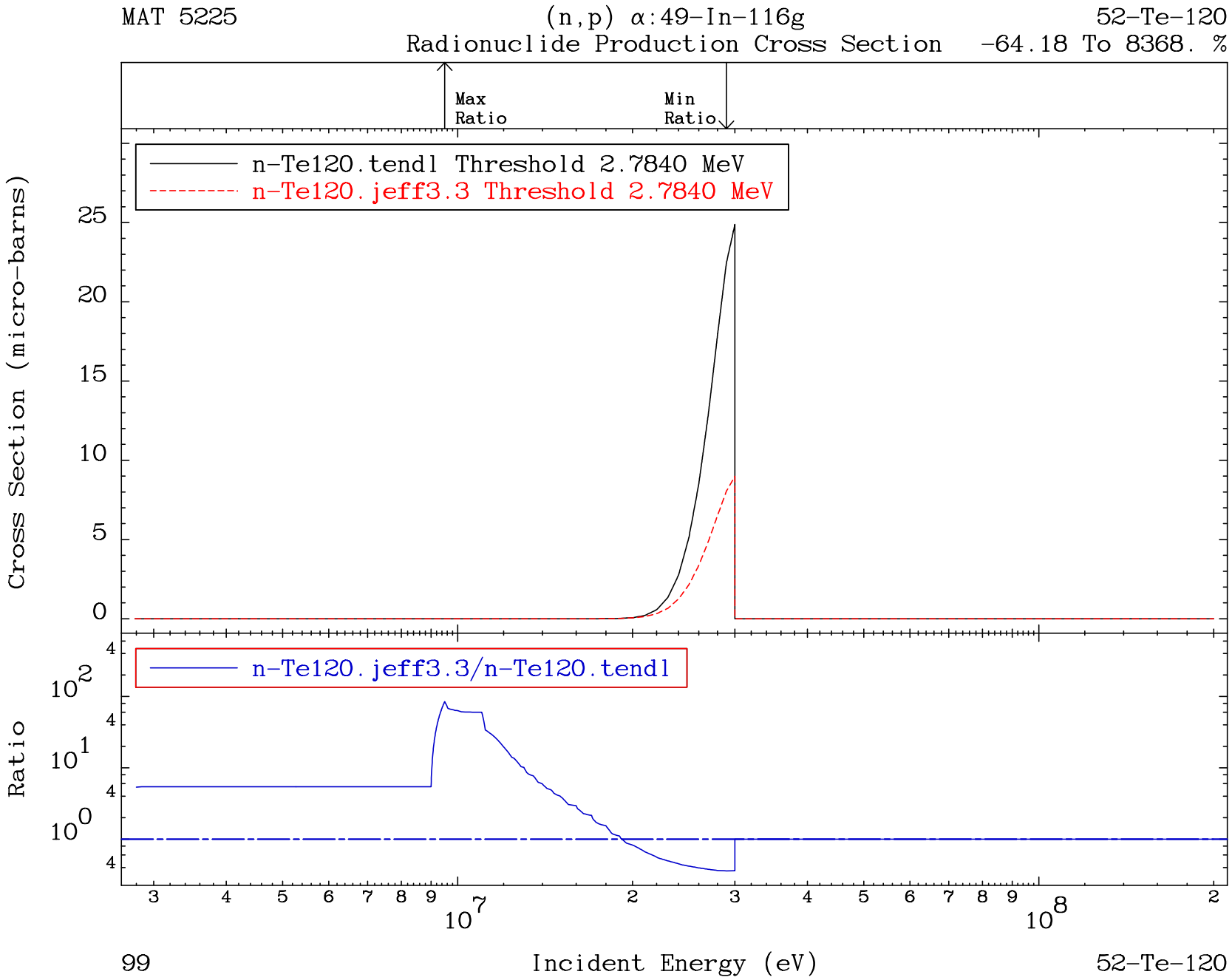

MAT 5225
(n,p):51-Sb-120m6
52-Te-120
Radionuclide Production Cross Section -45.12 To 9.050 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 1.0000 MeV
n-Te120.jeff3.3 Threshold 1.0000 MeV
Cross Section (milli-barns)
15
10
5
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
1.0
0.8
0.6
10^6
10^7
10^8
94
Incident Energy (eV)
52-Te-120

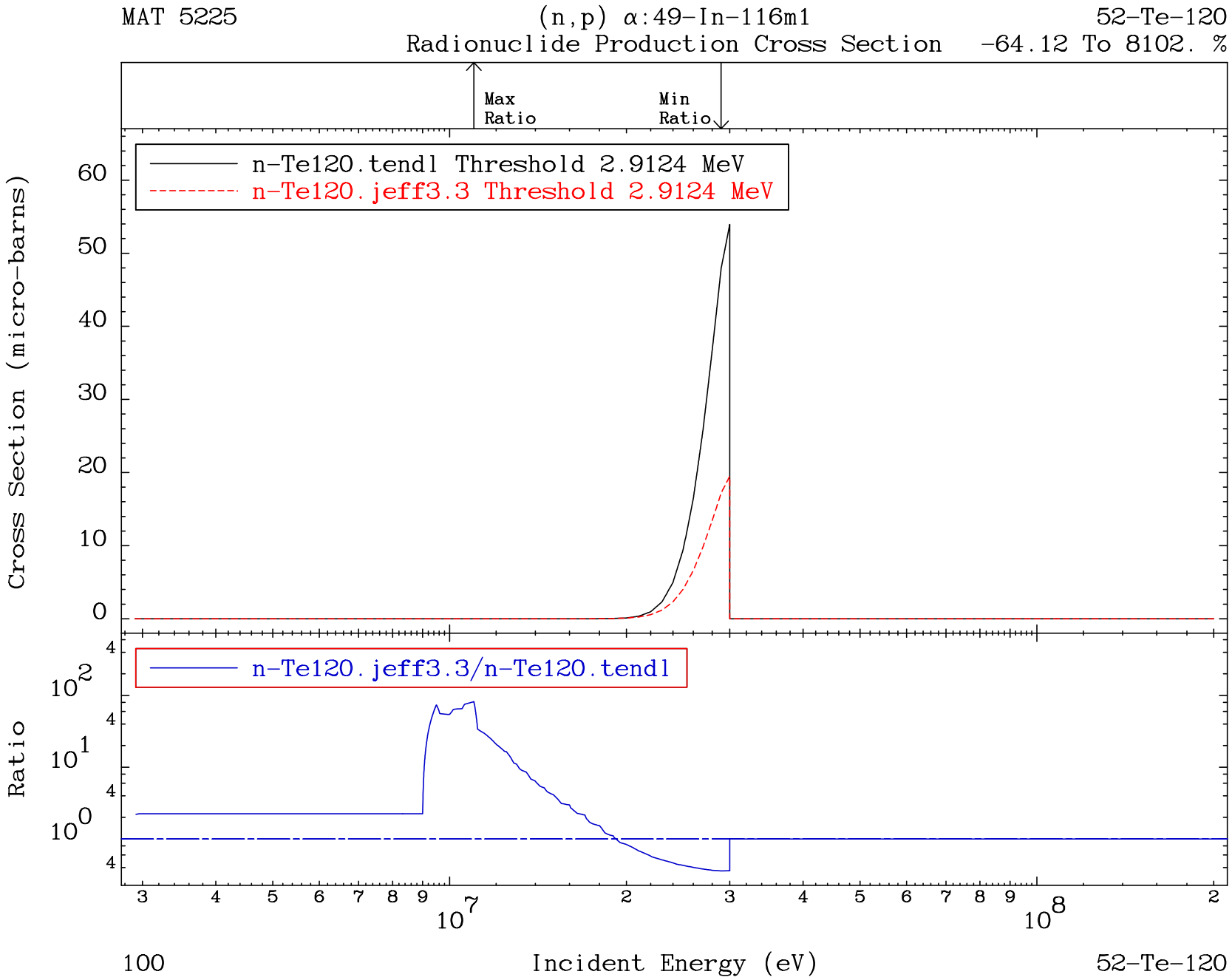

MAT 5225
(n,t):51-Sb-118g
52-Te-120
Radionuclide Production Cross Section
-32.63 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 8.3197 MeV
n-Te120.jeff3.3 Threshold 8.3197 MeV
Cross Section (milli-barns)
n-Te120.jeff3.3/n-Te120.tendl
Ratio
Incident Energy (eV)
95
52-Te-120

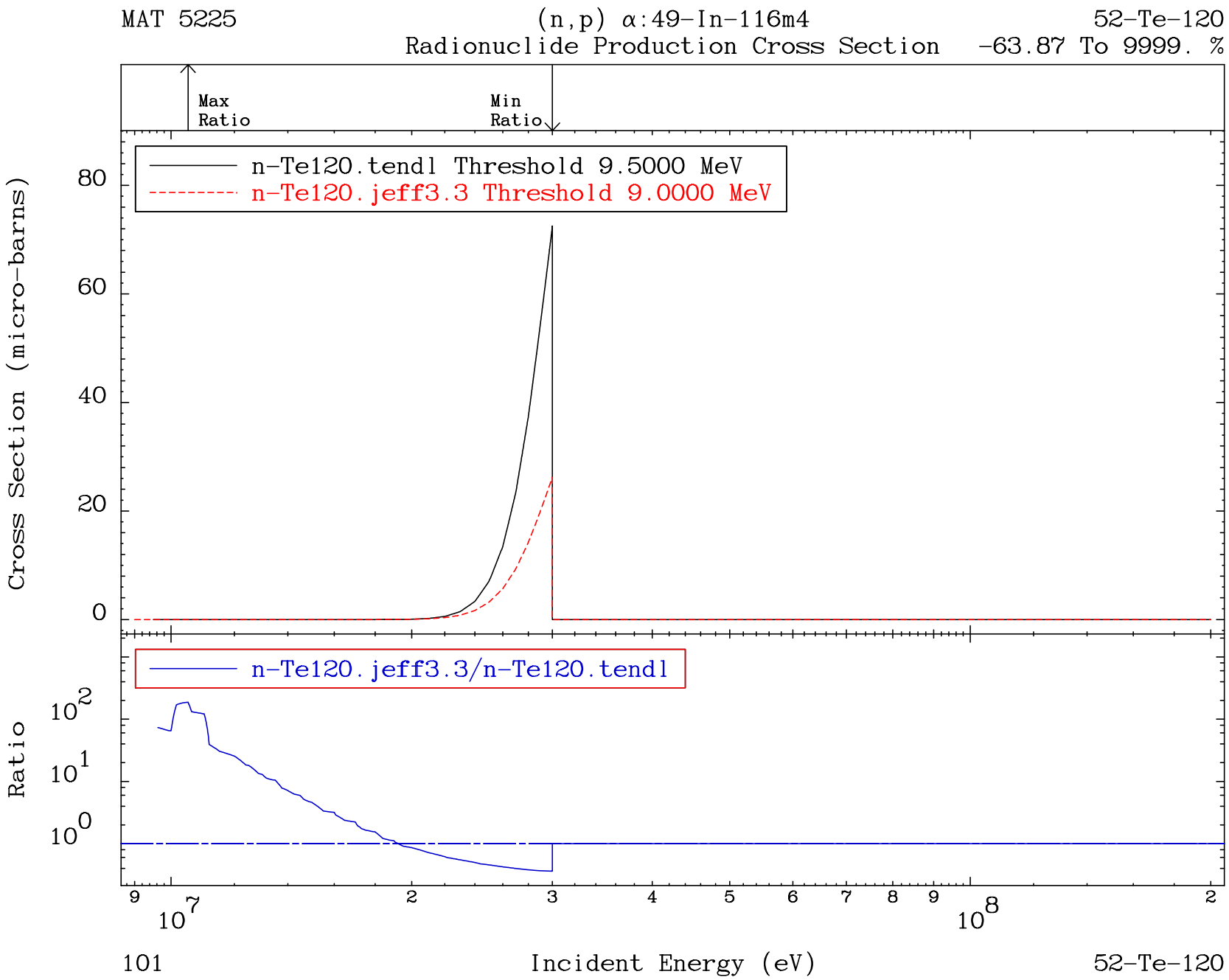

MAT 5225
(n,t):51-Sb-118m7
52-Te-120
Radionuclide Production Cross Section
-23.48 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 10.000 MeV
n-Te120.jeff3.3 Threshold 10.000 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.0
0.9
0.8
10^7
2
3
4
5
6
7
8
9
10^8
2
96
Incident Energy (eV)
52-Te-120

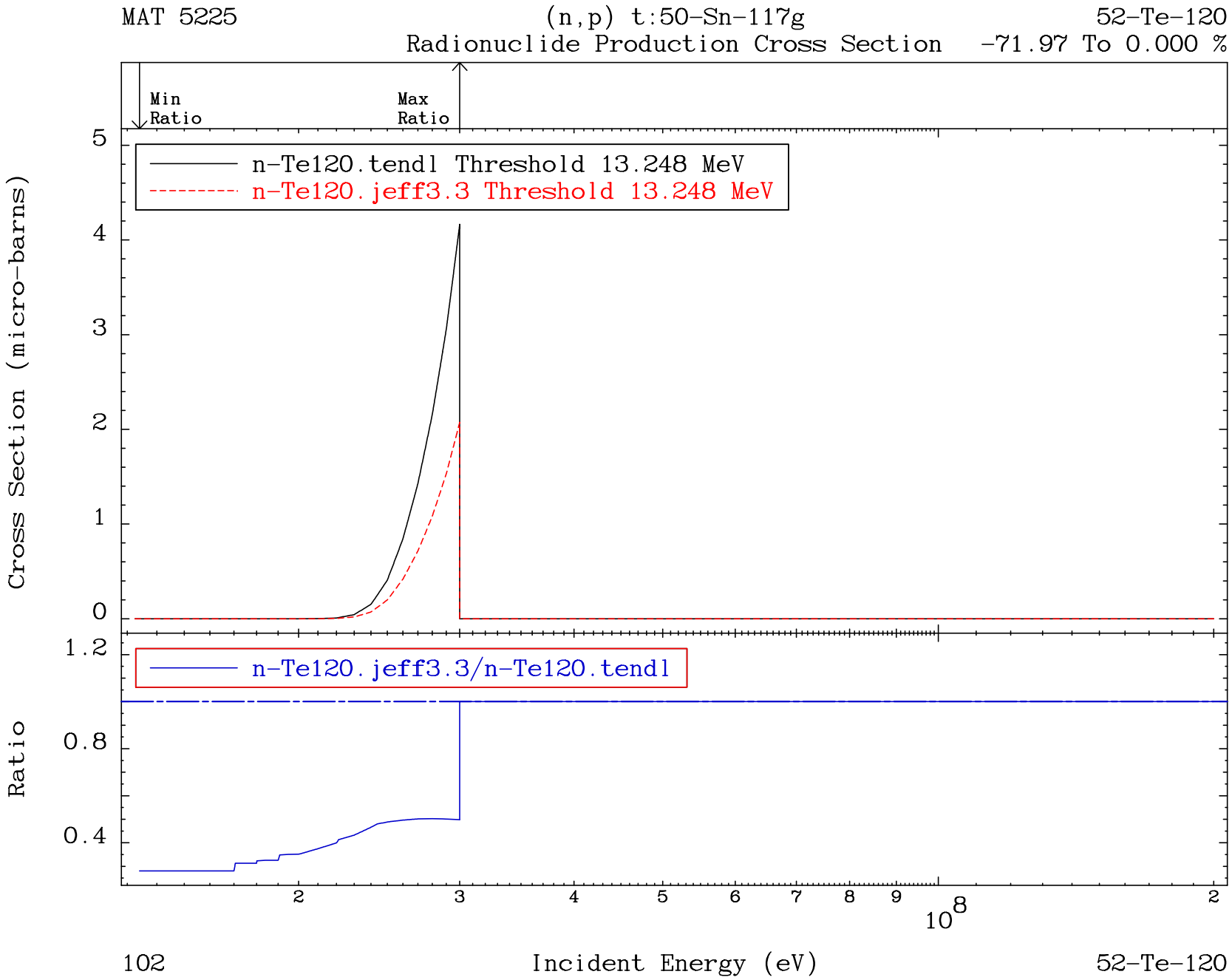

MAT 5225
(n,2p):50-Sn-119g
52-Te-120
Radionuclide Production Cross Section
-89.98 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 5.8585 MeV
n-Te120.jeff3.3 Threshold 5.8585 MeV
Cross Section (micro-barns)
250
200
150
100
50
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
0.8
0.4
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
97
Incident Energy (eV)
52-Te-120

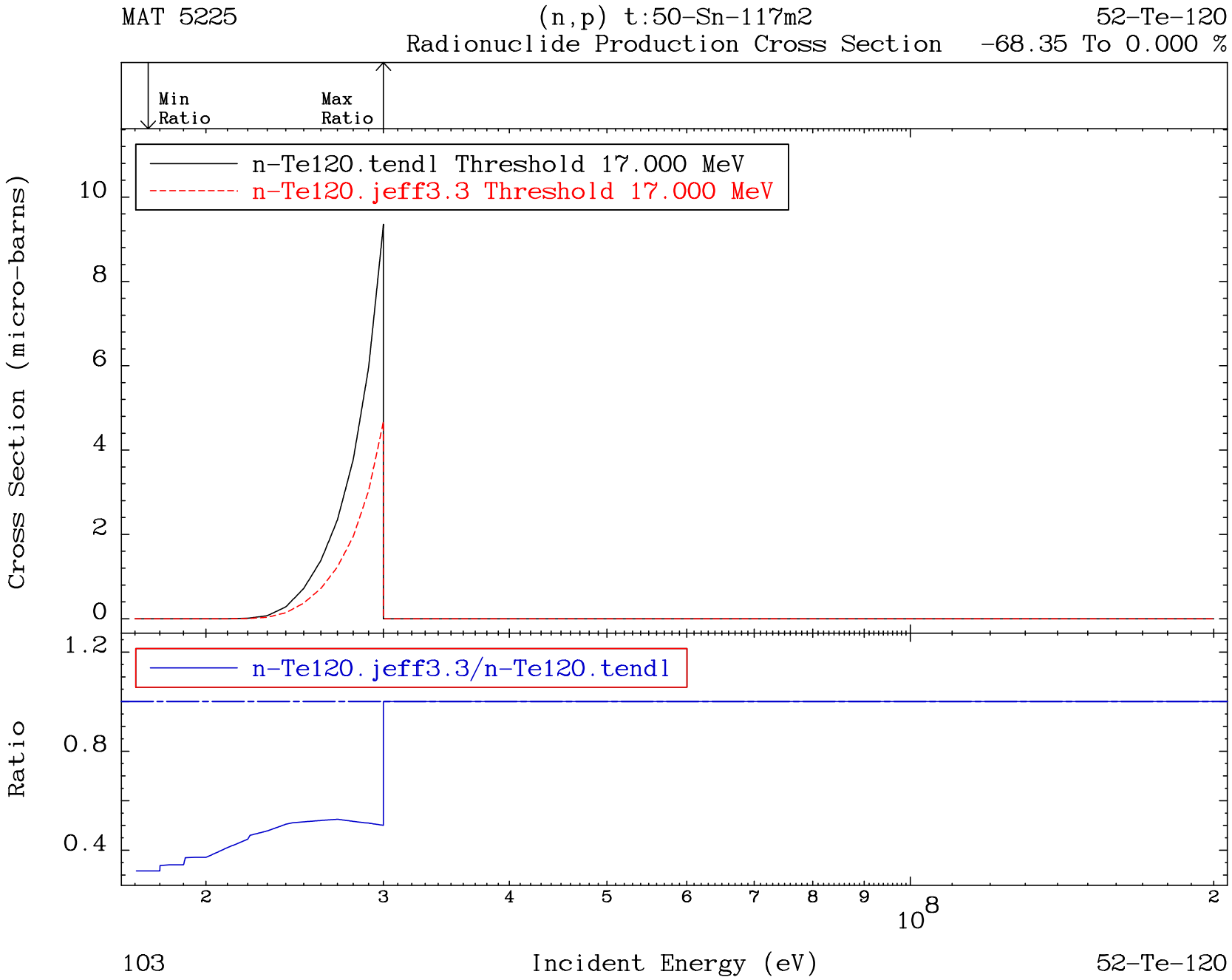

MAT 5225
(n,2p):50-Sn-119m2
52-Te-120
Radionuclide Production Cross Section
-89.01 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 5.9487 MeV
n-Te120.jeff3.3 Threshold 5.9487 MeV
Cross Section (micro-barns)
300
250
200
150
100
50
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
1.2
0.8
0.4
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
98
Incident Energy (eV)
52-Te-120

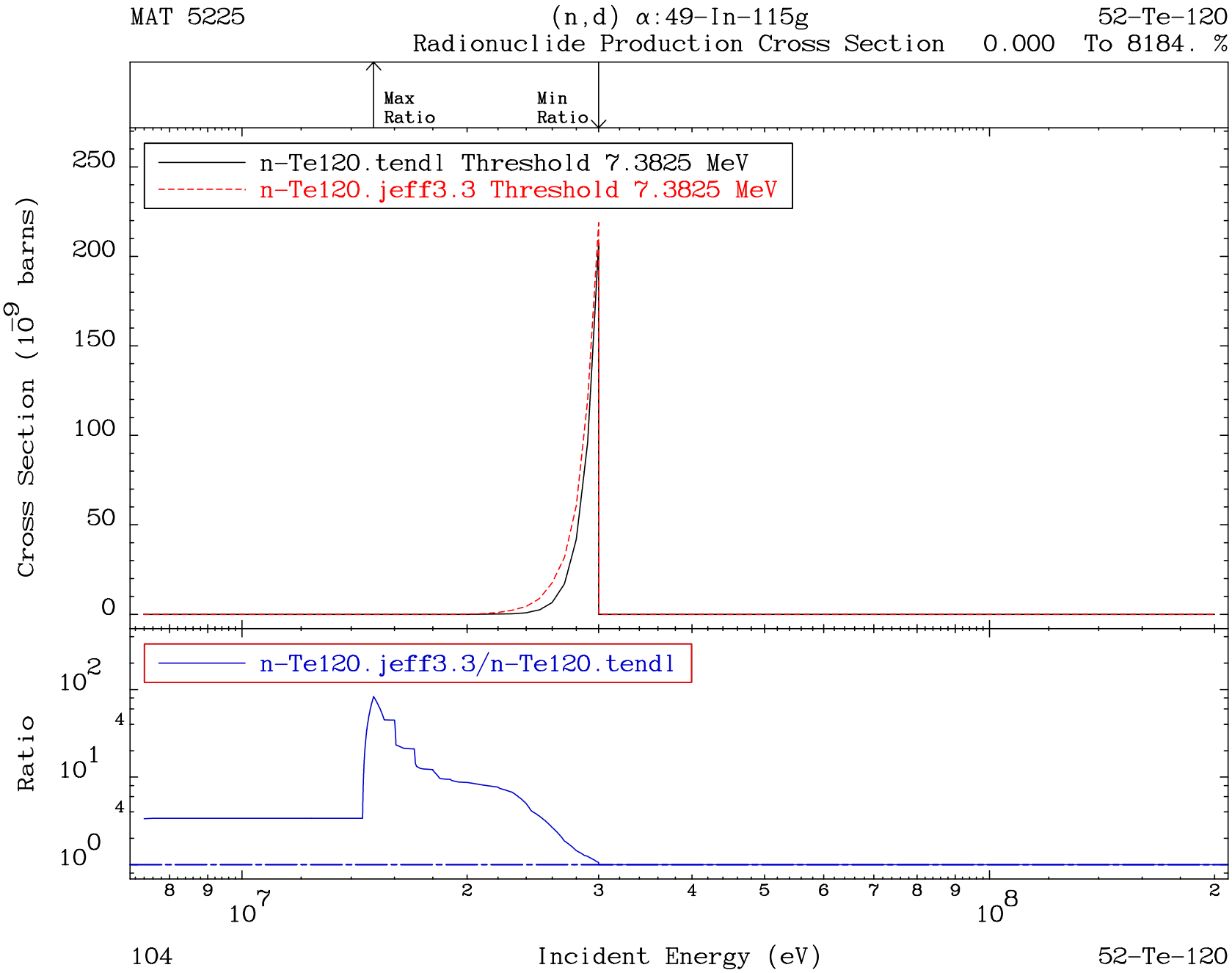

MAT 5225
(n,p) α:49-In-116g
52-Te-120
Radionuclide Production Cross Section -64.18 To 8368. %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 2.7840 MeV
n-Te120.jeff3.3 Threshold 2.7840 MeV
Cross Section (micro-barns)
25
20
15
10
5
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
10^2
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
99
Incident Energy (eV)
52-Te-120

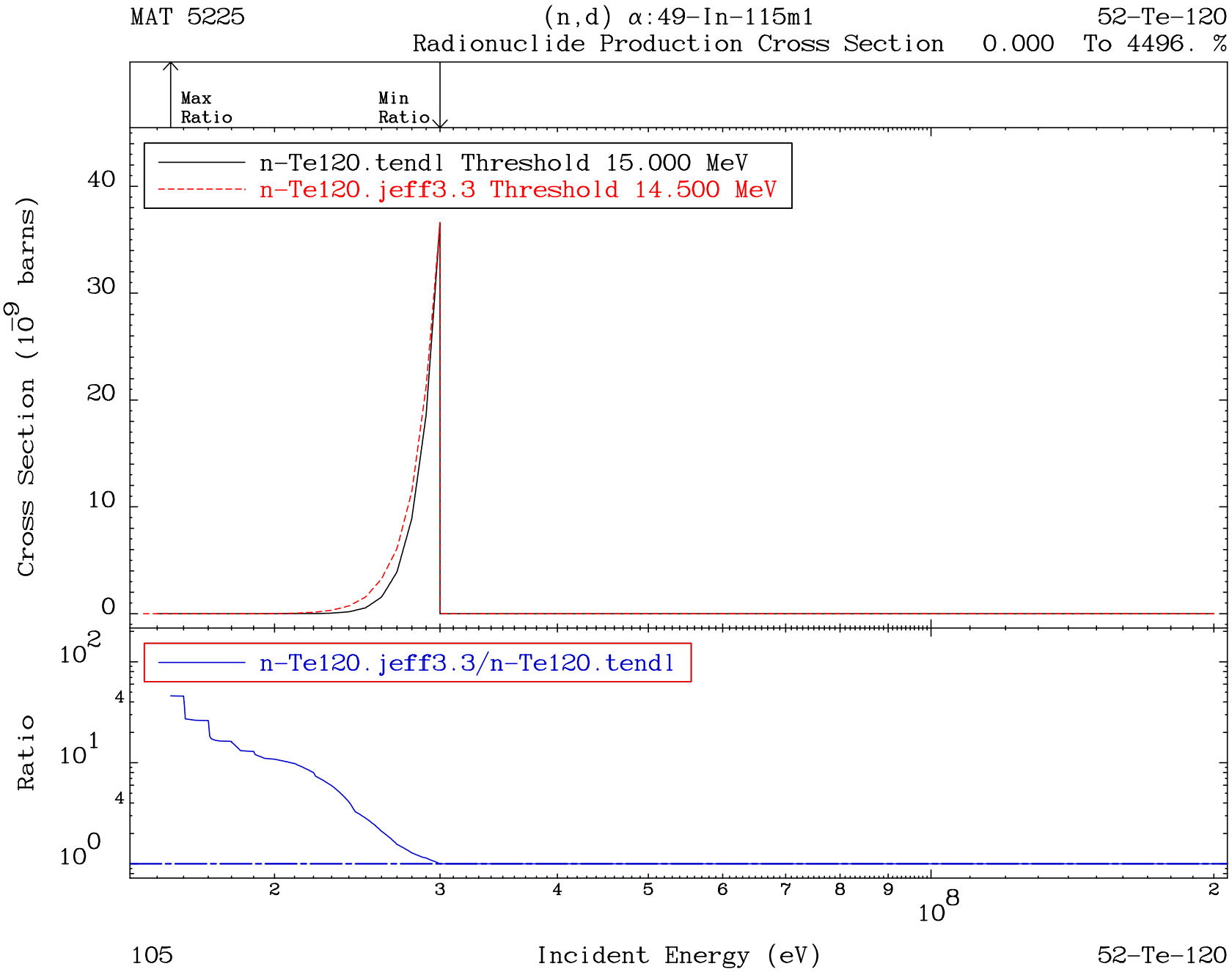

MAT 5225
(n,p) α:49-In-116m1
52-Te-120
Radionuclide Production Cross Section -64.12 To 8102. %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 2.9124 MeV
n-Te120.jeff3.3 Threshold 2.9124 MeV
Cross Section (micro-barns)
60
50
40
30
20
10
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
10^2
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
100
Incident Energy (eV)
52-Te-120


MAT 5225
(n,p) α:49-In-116m4
52-Te-120
Radionuclide Production Cross Section -63.87 To 9999. %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 9.5000 MeV
n-Te120.jeff3.3 Threshold 9.0000 MeV
Cross Section (micro-barns)
80
60
40
20
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
10^2
10^1
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
101
Incident Energy (eV)
52-Te-120


MAT 5225
(n,p) t:50-Sn-117g
52-Te-120
Radionuclide Production Cross Section
-71.97 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 13.248 MeV
n-Te120.jeff3.3 Threshold 13.248 MeV
Cross Section (micro-barns)
n-Te120.jeff3.3/n-Te120.tendl
Ratio
Incident Energy (eV)
102
52-Te-120


MAT 5225
(n,p) t:50-Sn-117m2
52-Te-120
Radionuclide Production Cross Section -68.35 To 0.000 %
Min Ratio
Max Ratio
n-Te120.tendl Threshold 17.000 MeV
n-Te120.jeff3.3 Threshold 17.000 MeV
Cross Section (micro-barns)
10
8
6
4
2
0
1.2
n-Te120.jeff3.3/n-Te120.tendl
Ratio
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
103
Incident Energy (eV)
52-Te-120


MAT 5225
(n,d) α:49-In-115g
52-Te-120
Radionuclide Production Cross Section 0.000 To 8184. %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 7.3825 MeV
n-Te120.jeff3.3 Threshold 7.3825 MeV
Cross Section (10^{-9} barns)
250
200
150
100
50
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
10^{2}
10^{1}
10^{0}
8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
104
Incident Energy (eV)
52-Te-120


MAT 5225
(n,d) α:49-In-115m1
52-Te-120
Radionuclide Production Cross Section 0.000 To 4496. %
Max Ratio
Min Ratio
n-Te120.tendl Threshold 15.000 MeV
n-Te120.jeff3.3 Threshold 14.500 MeV
Cross Section (10^{-9} barns)
40
30
20
10
0
n-Te120.jeff3.3/n-Te120.tendl
Ratio
10^{2}
4
10^{1}
4
10^{0}
2
3
4
5
6
7
8
9
10^{8}
2
105
Incident Energy (eV)
52-Te-120