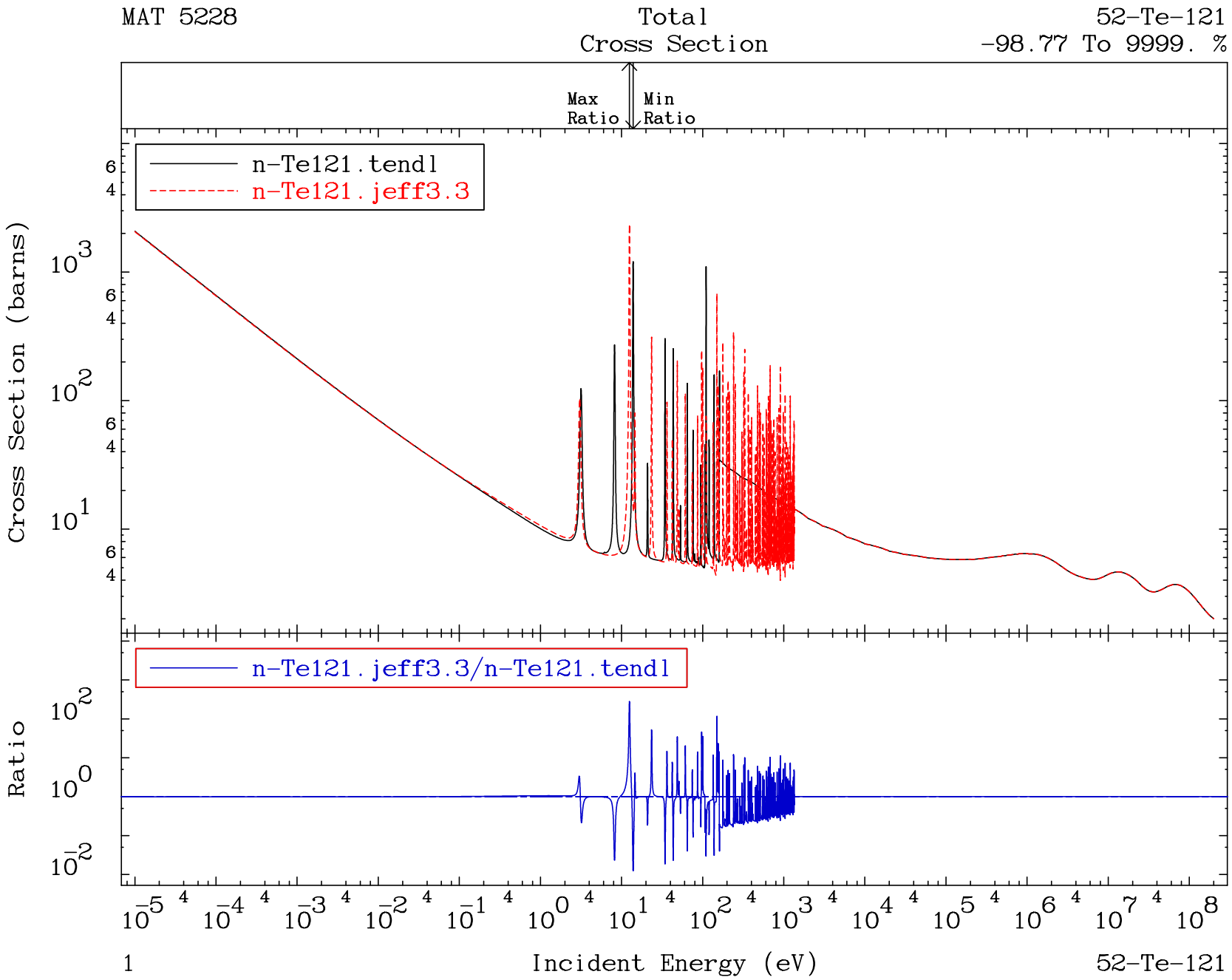
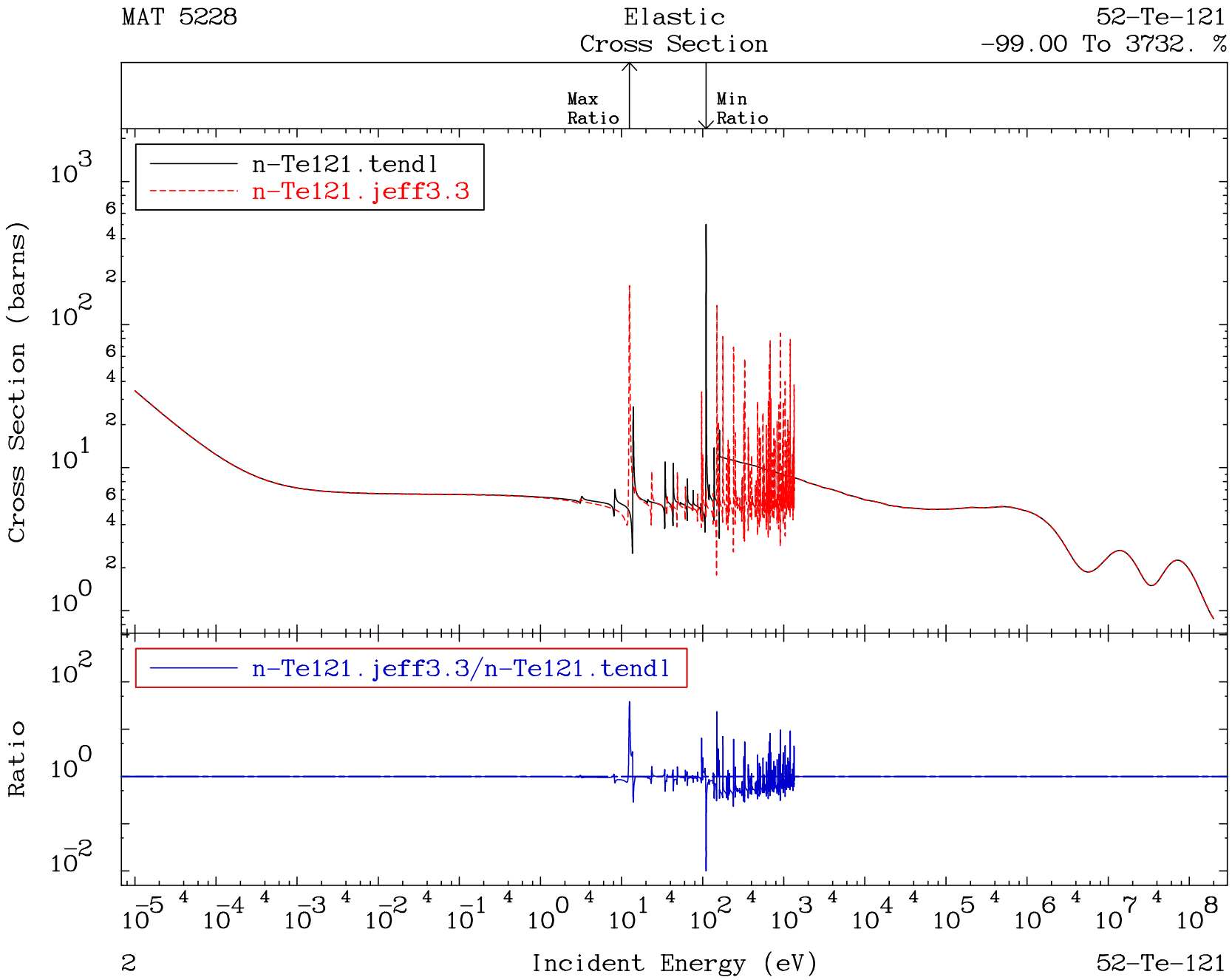
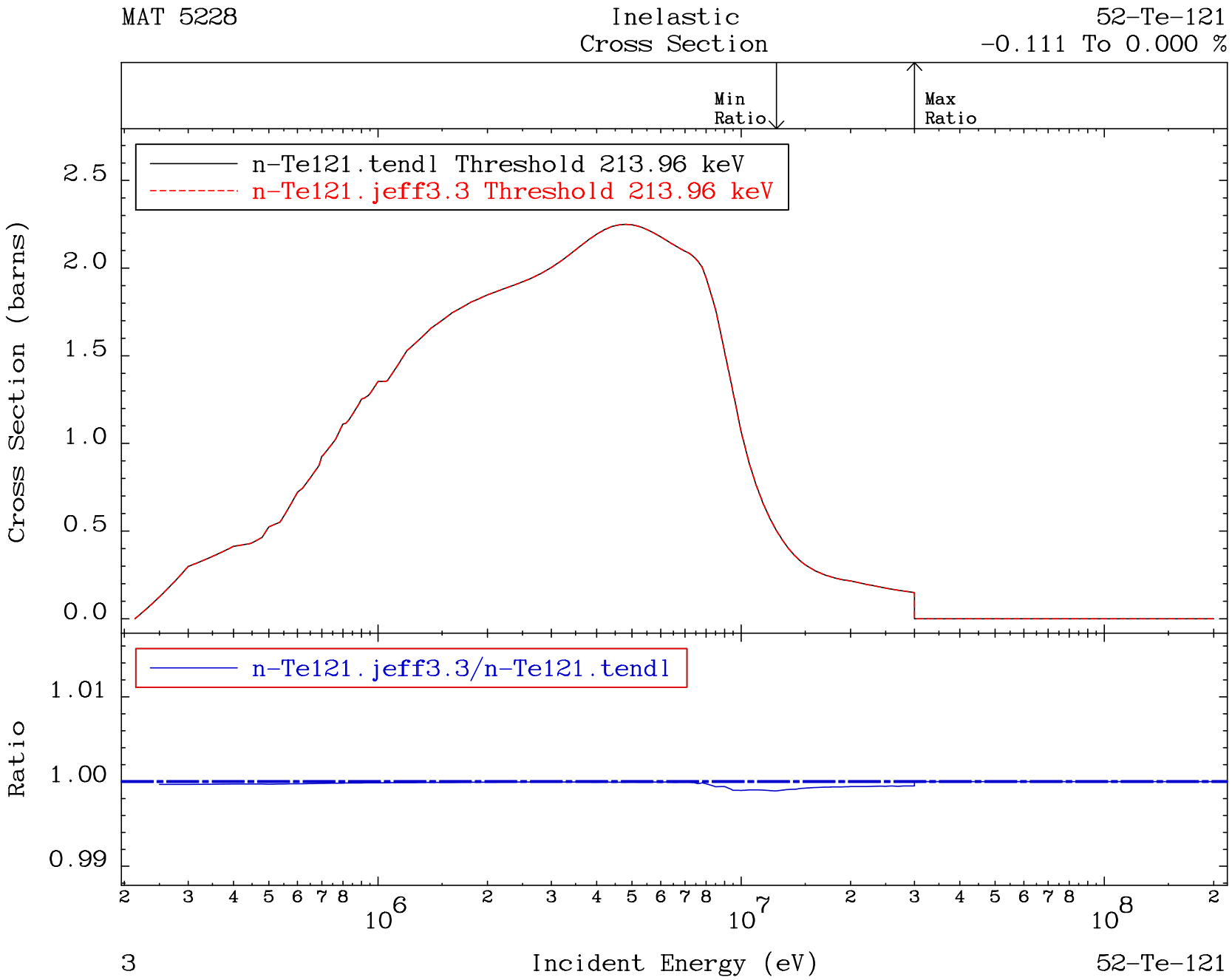
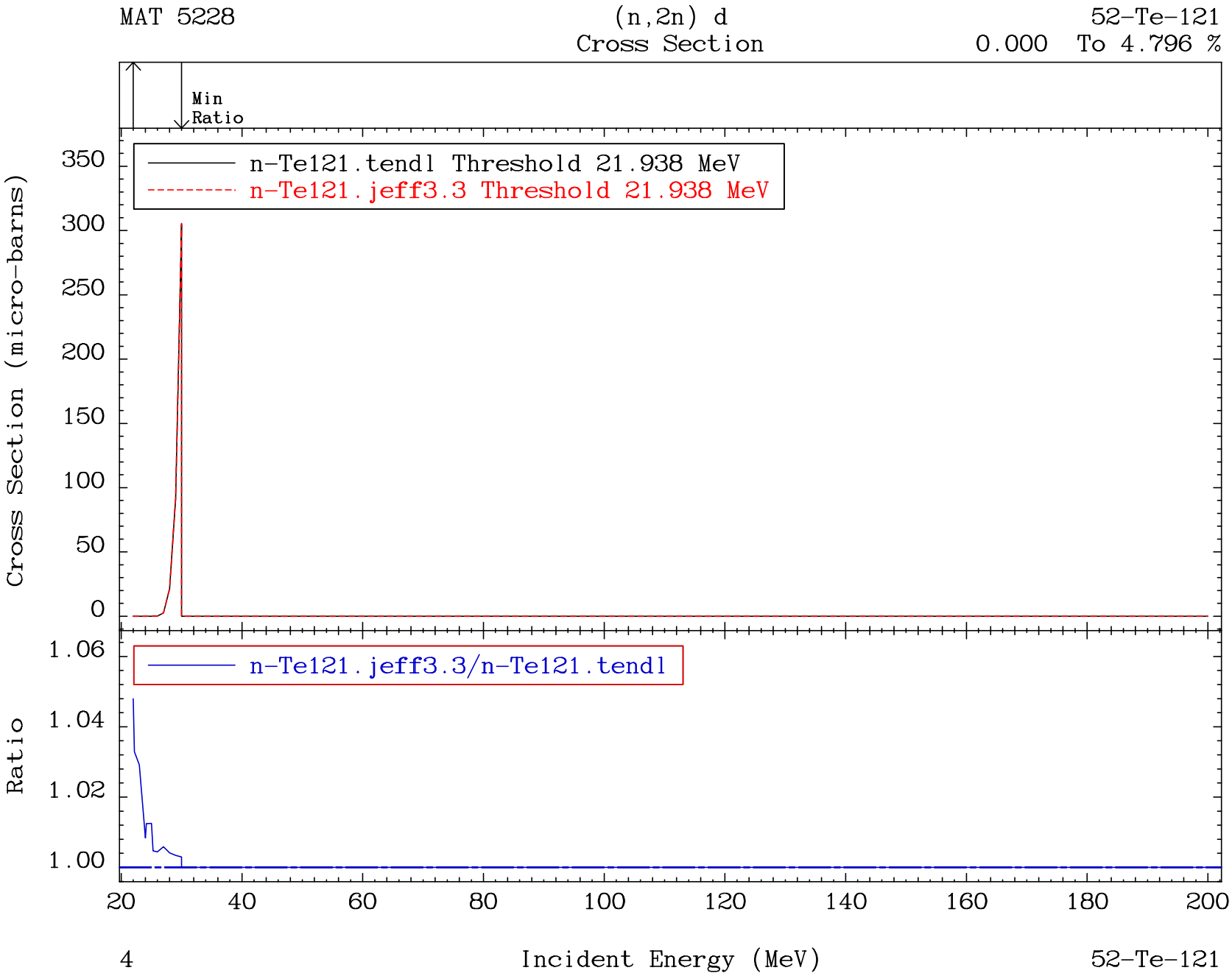
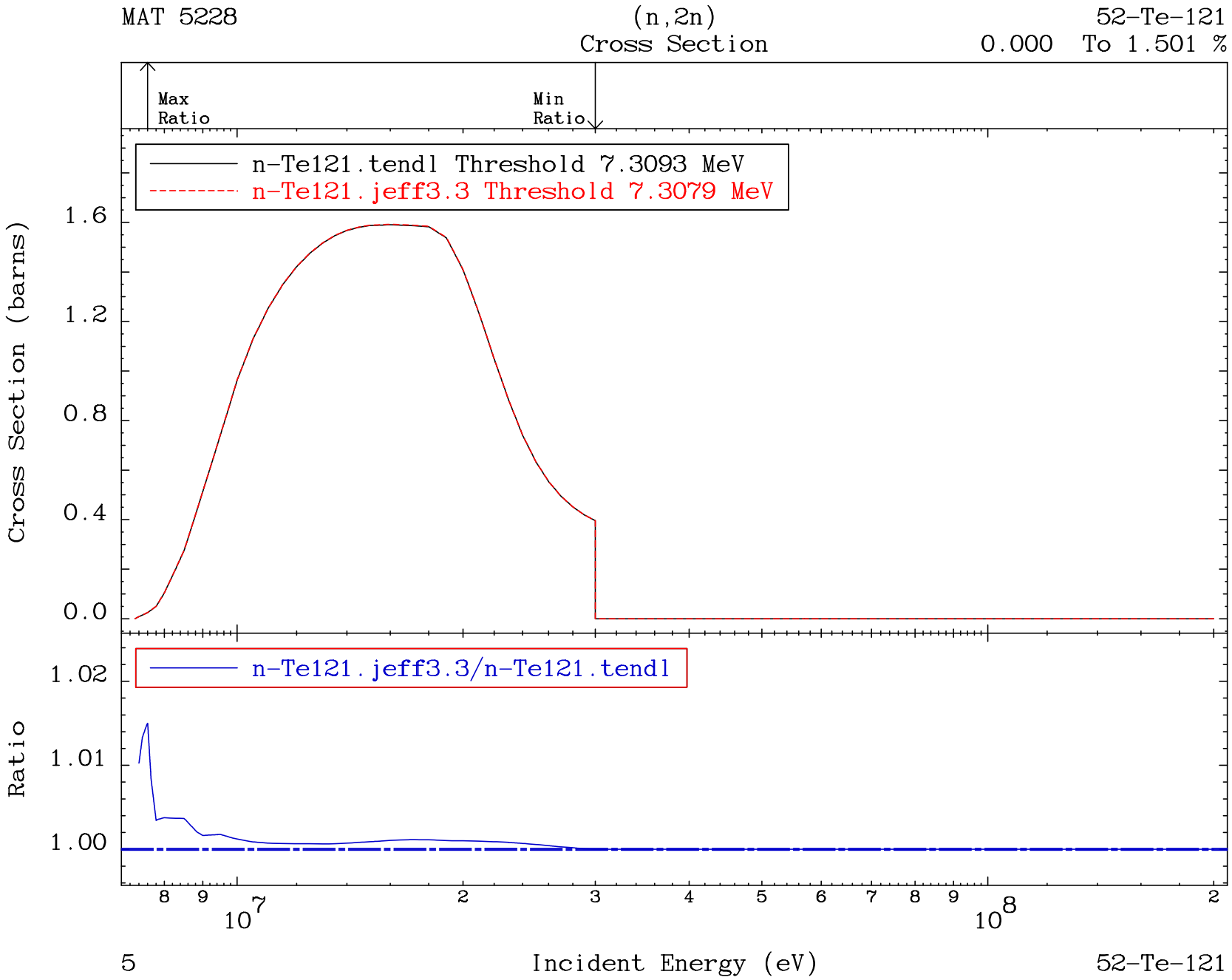
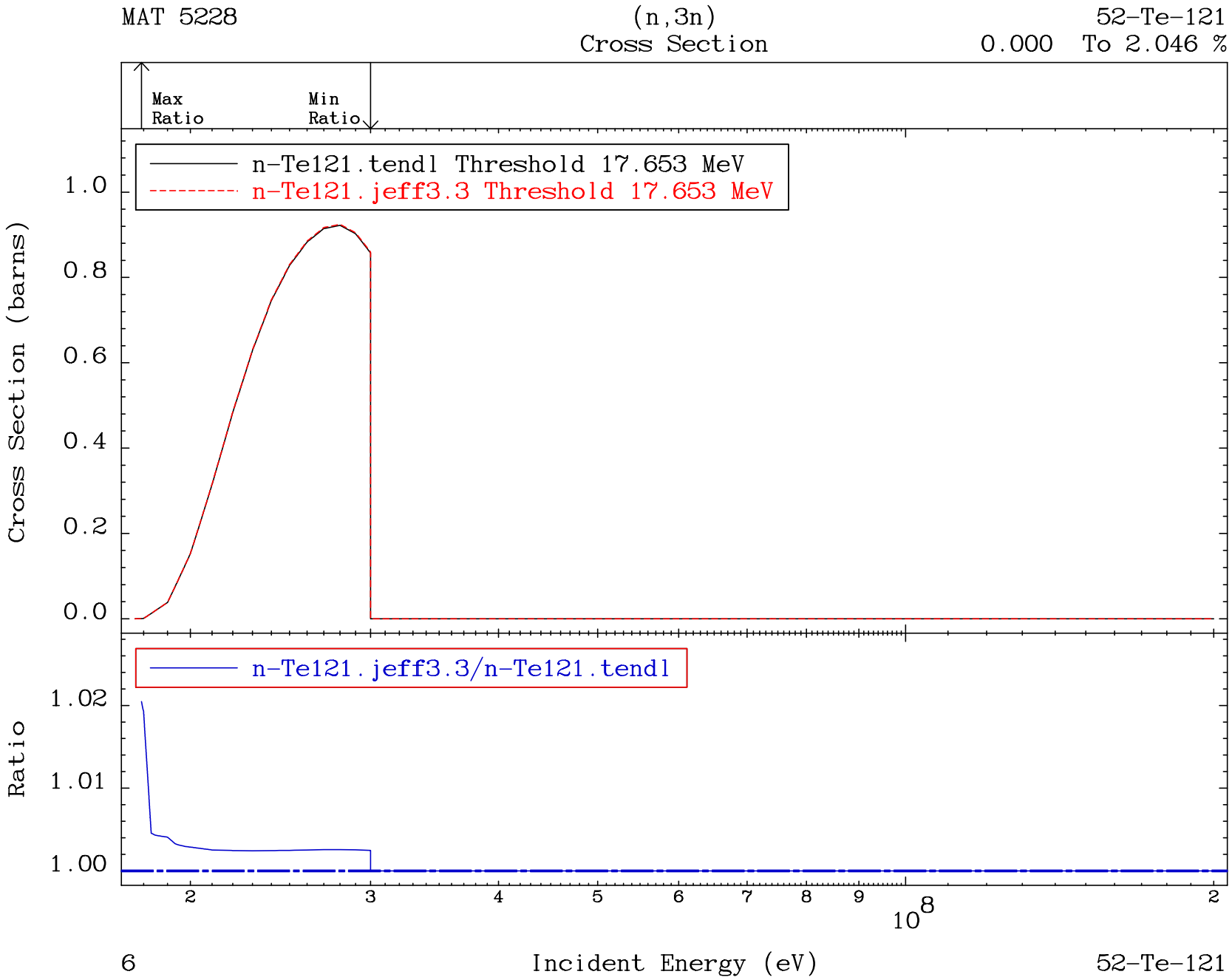

MAT 5228
Total
Cross Section
52-Te-121
-98.77 To 9999. %
Max Ratio
Min Ratio
n-Te121.tendl
n-Te121.jeff3.3
Cross Section (barns)
n-Te121.jeff3.3/n-Te121.tendl
Ratio
Incident Energy (eV)
1
52-Te-121

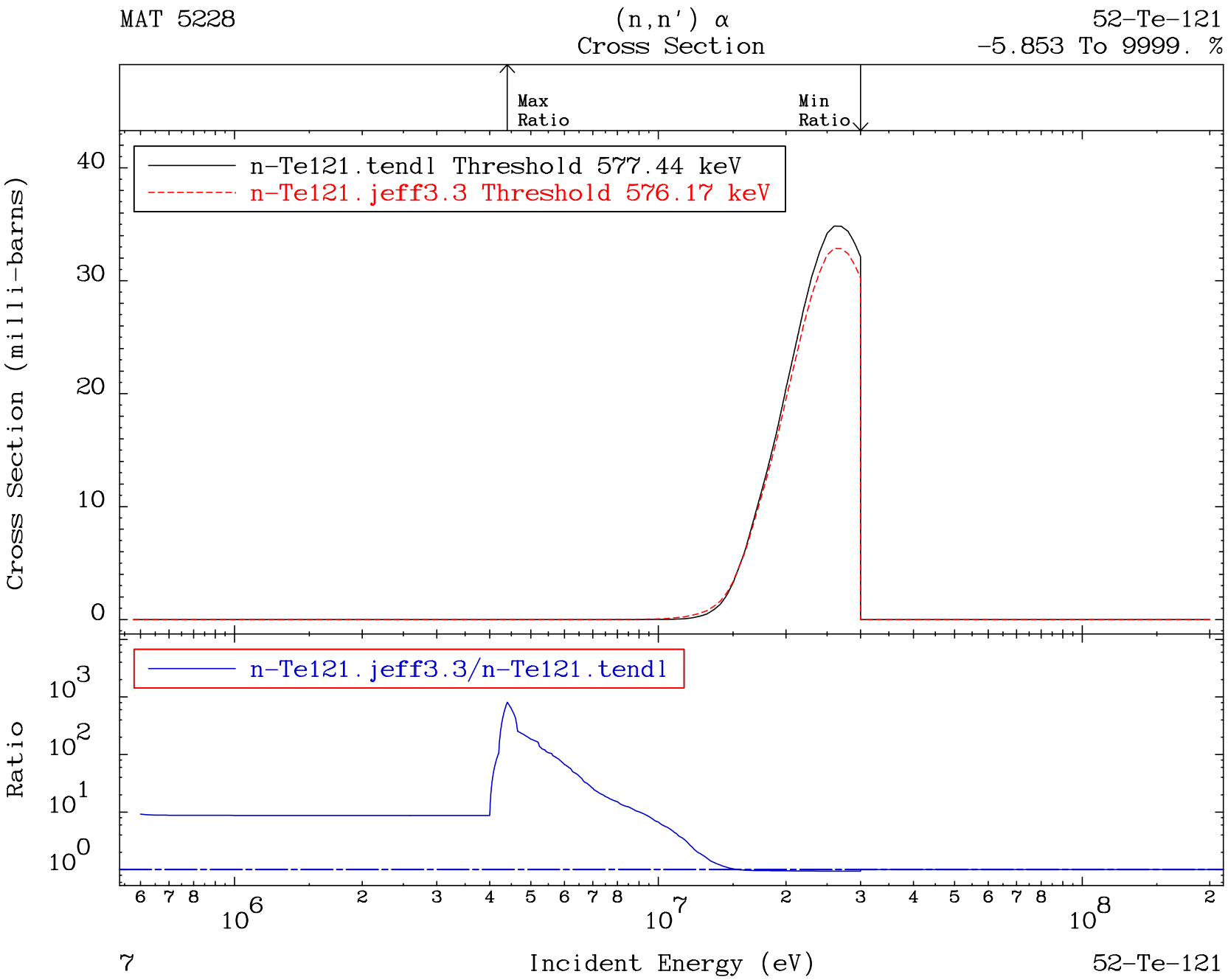

MAT 5228
Elastic
Cross Section
52-Te-121
-99.00 To 3732. %
Max
Ratio
Min
Ratio
n-Te121.tendl
n-Te121.jeff3.3
Cross Section (barns)
n-Te121.jeff3.3/n-Te121.tendl
Ratio
Incident Energy (eV)
2
52-Te-121

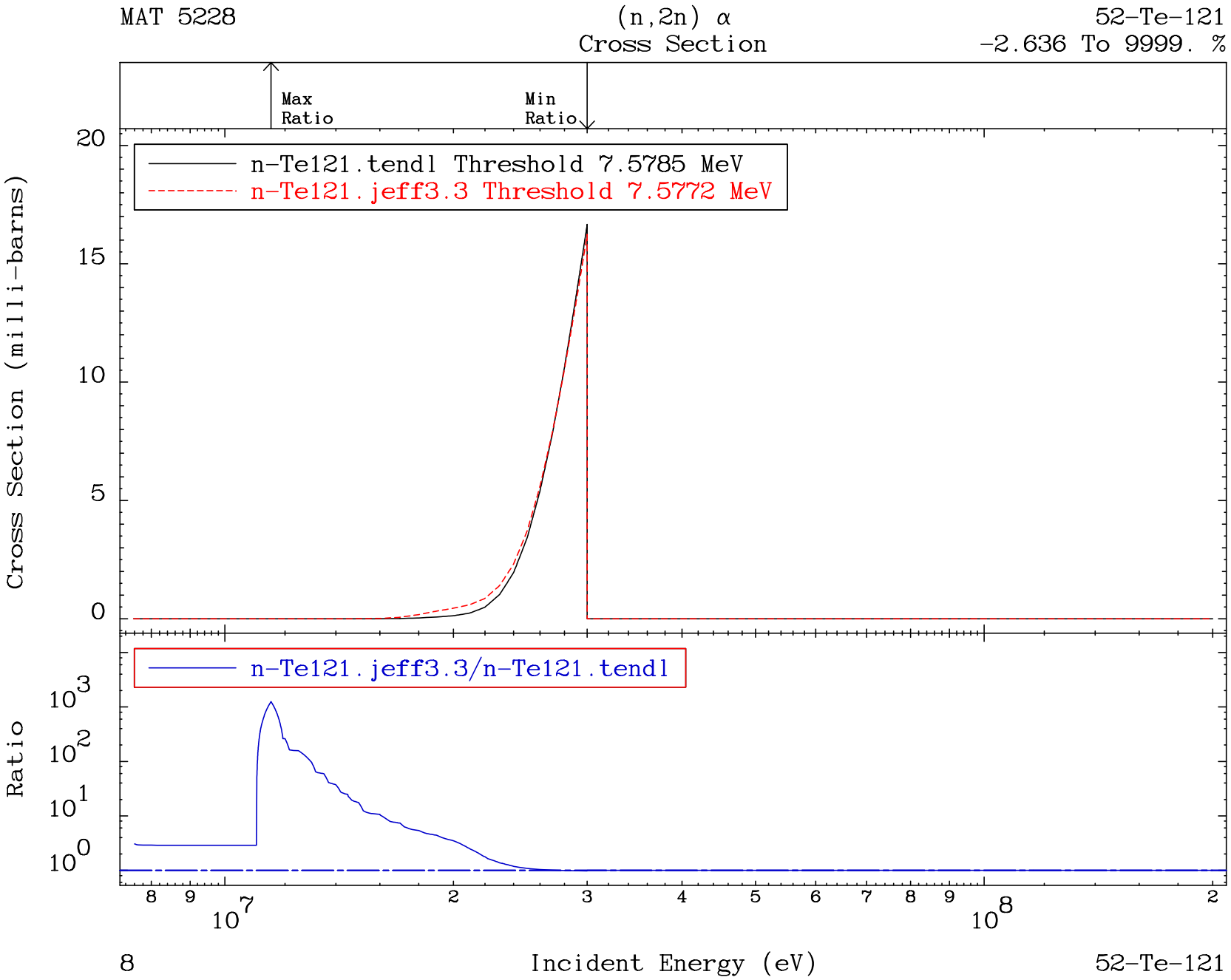

MAT 5228
Inelastic
Cross Section
52-Te-121
-0.111 To 0.000 %
Min
Ratio
Max
Ratio
n-Te121.tendl Threshold 213.96 keV
n-Te121.jeff3.3 Threshold 213.96 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
3
Incident Energy (eV)
52-Te-121

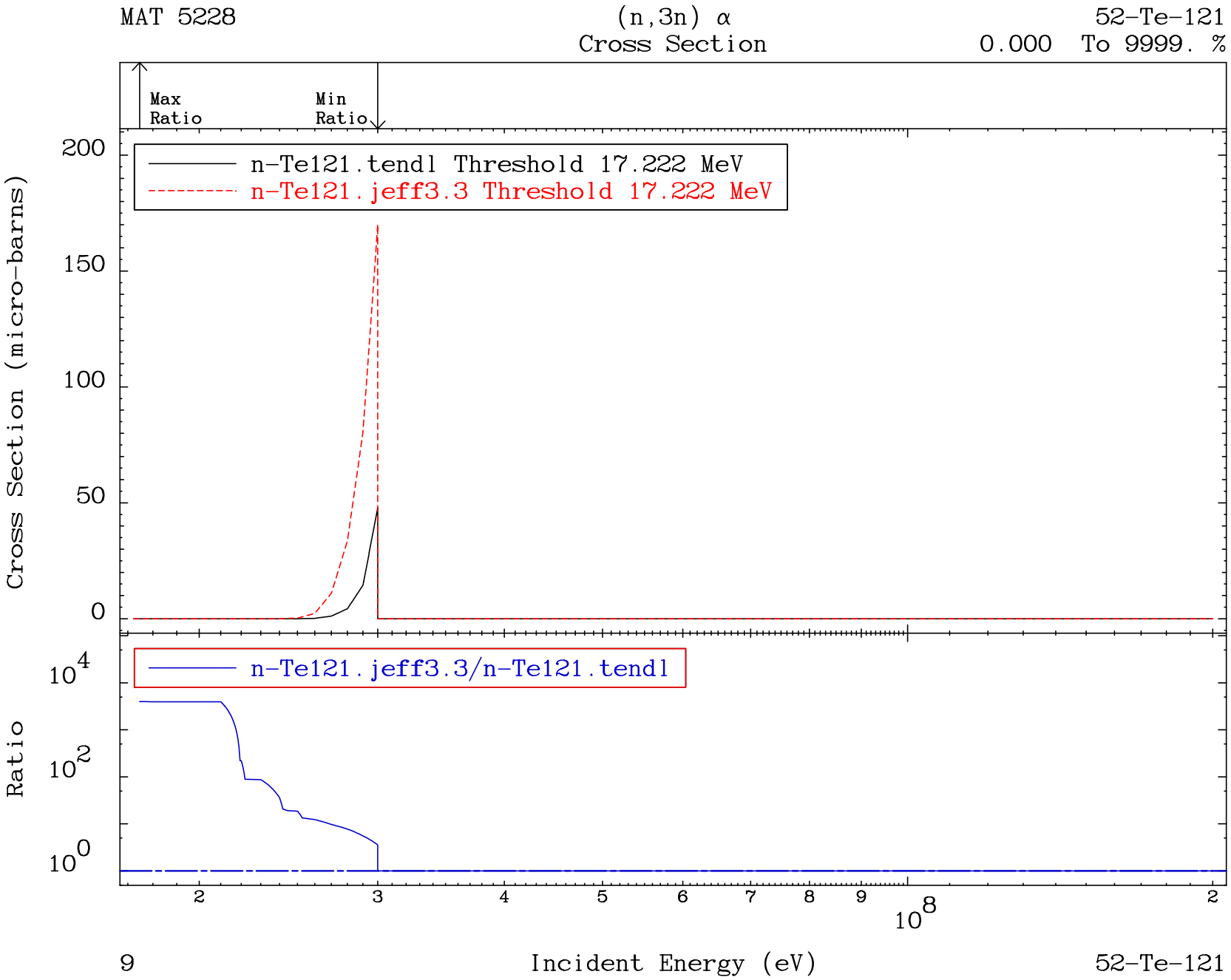

MAT 5228
(n,2n) d
Cross Section
52-Te-121
0.000 To 4.796 %
Min
Ratio
n-Te121.tendl Threshold 21.938 MeV
n-Te121.jeff3.3 Threshold 21.938 MeV
Cross Section (micro-barns)
350
300
250
200
150
100
50
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.06
1.04
1.02
1.00
20
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
52-Te-121

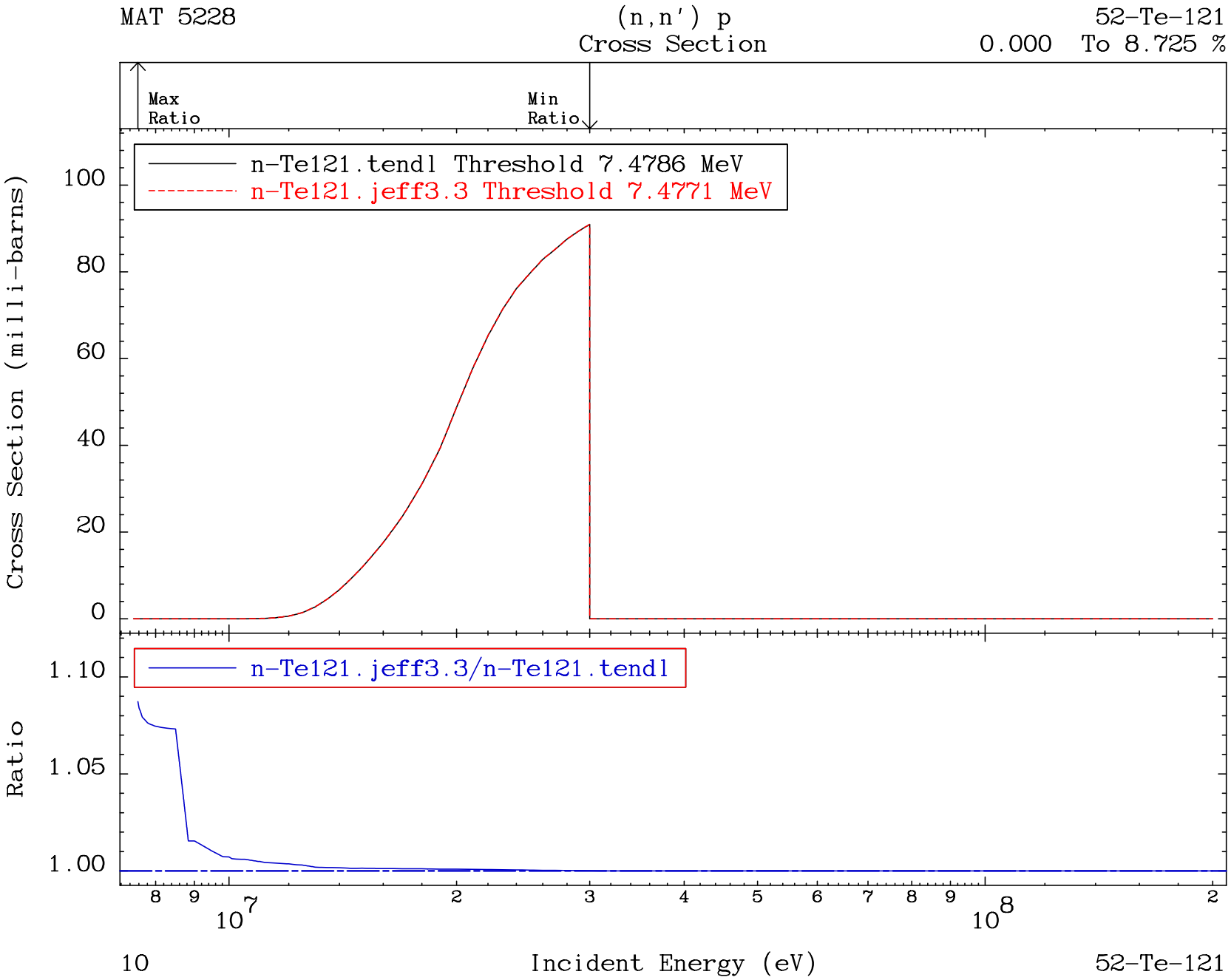

MAT 5228
(n,2n)
Cross Section
52-Te-121
0.000 To 1.501 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 7.3093 MeV
n-Te121.jeff3.3 Threshold 7.3079 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.02
1.01
1.00
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
52-Te-121

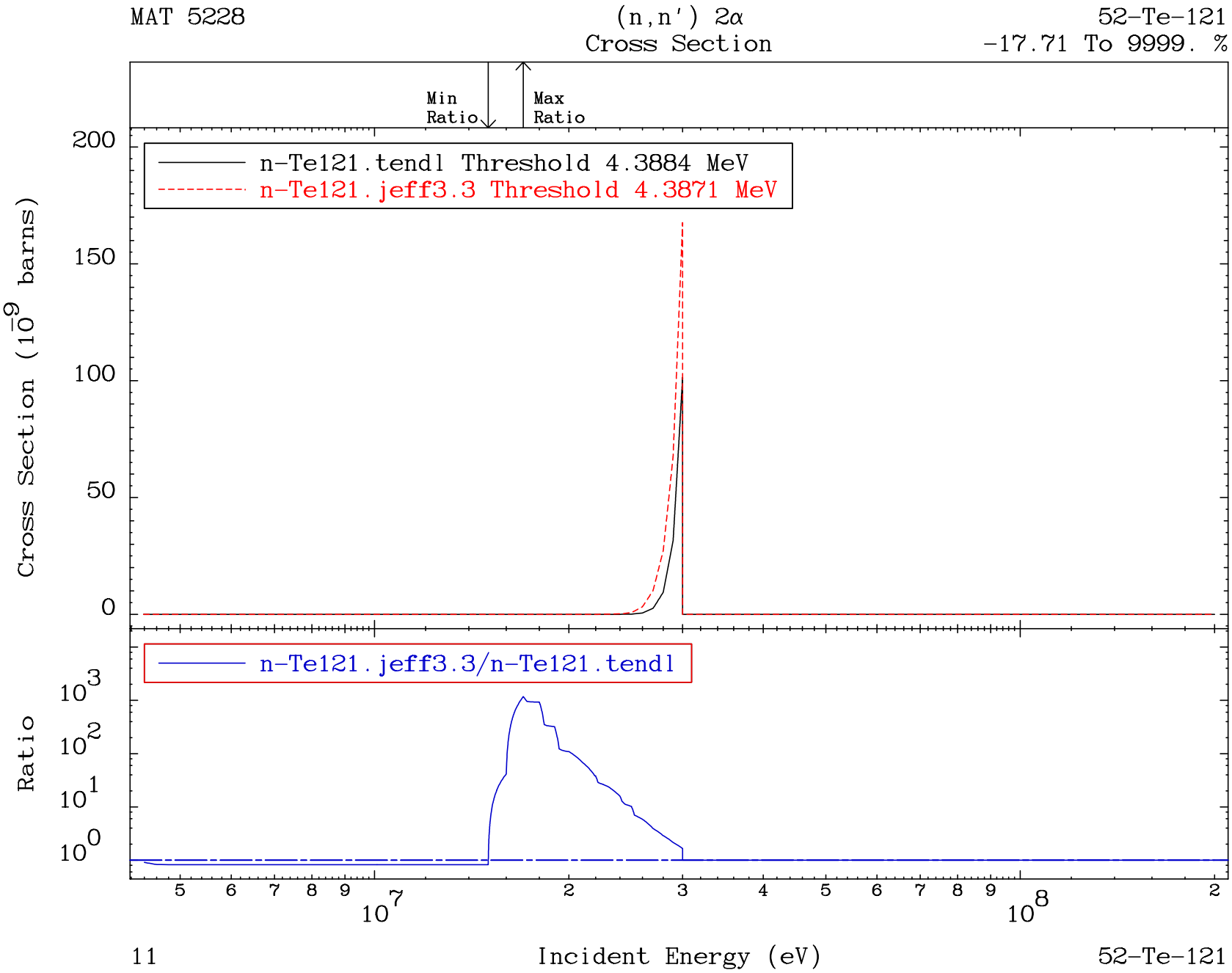

MAT 5228
(n,3n)
Cross Section
52-Te-121
0.000 To 2.046 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 17.653 MeV
n-Te121.jeff3.3 Threshold 17.653 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
52-Te-121

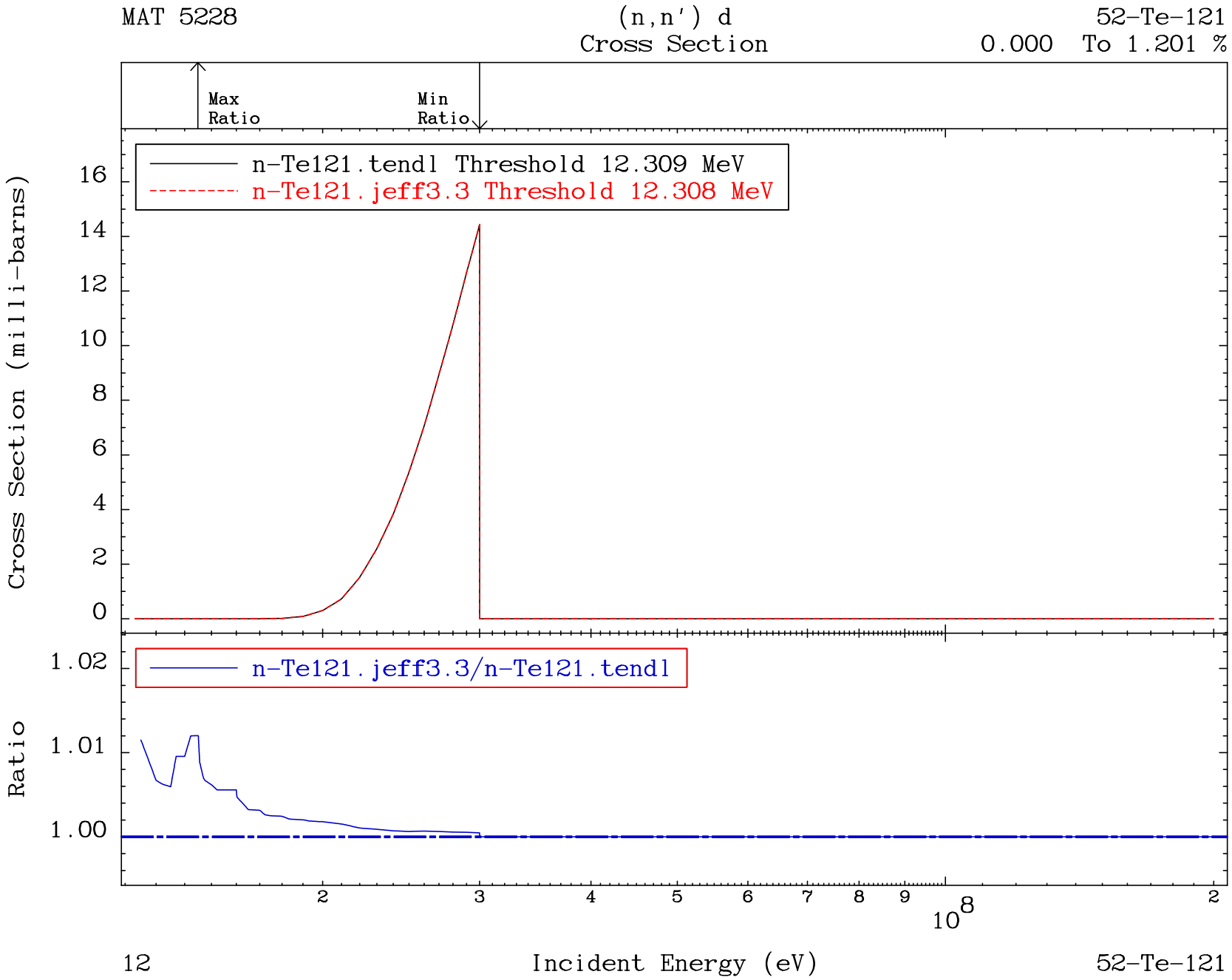

MAT 5228
(n,n') α
Cross Section
52-Te-121
-5.853 To 9999. %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 577.44 keV
n-Te121.jeff3.3 Threshold 576.17 keV
Cross Section (milli-barns)
40
30
20
10
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
10^3
10^2
10^1
10^0
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
7
Incident Energy (eV)
52-Te-121

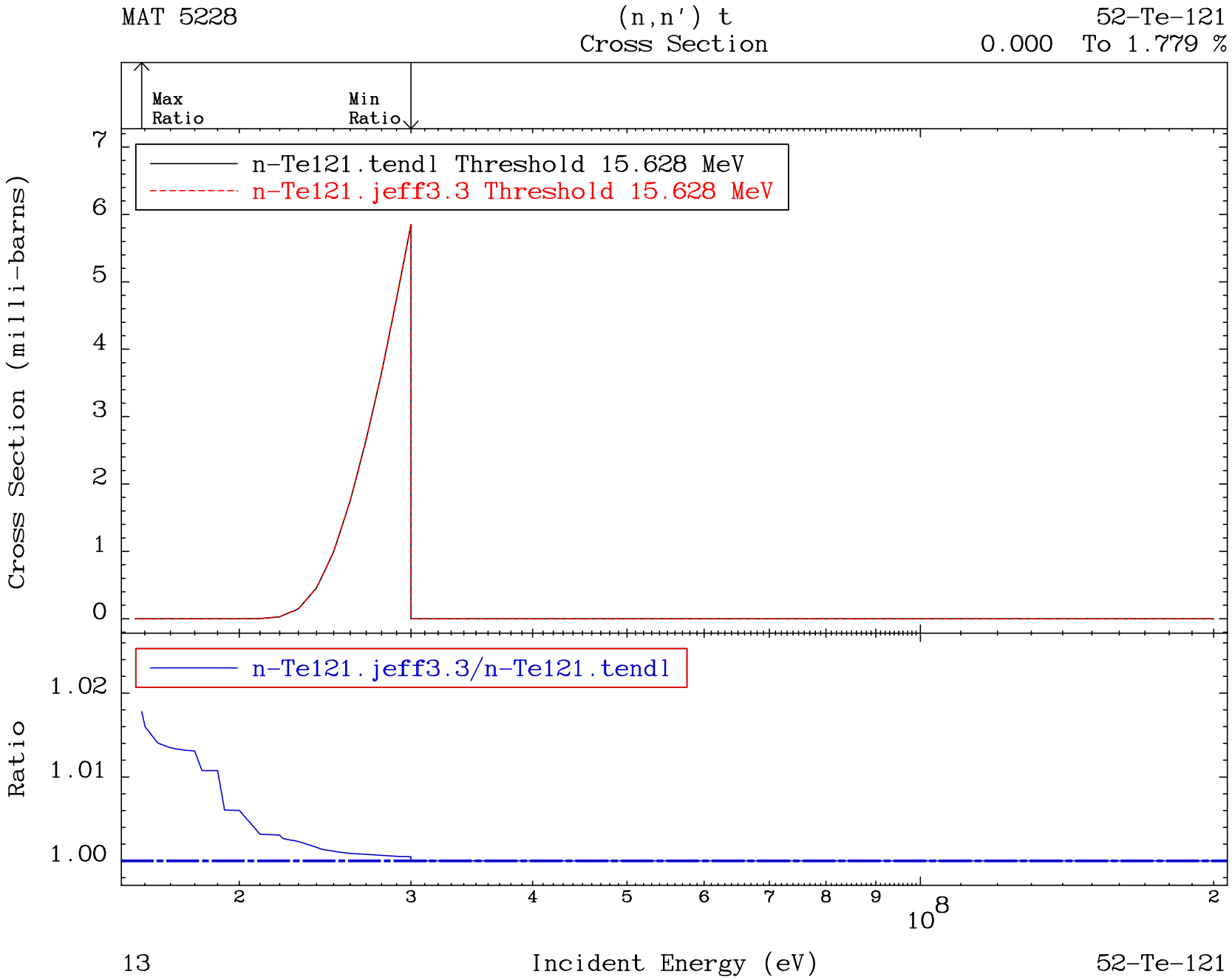

MAT 5228
(n,2n) α
Cross Section
52-Te-121
-2.636 To 9999. %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 7.5785 MeV
n-Te121.jeff3.3 Threshold 7.5772 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
10^3
10^2
10^1
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
8
Incident Energy (eV)
52-Te-121

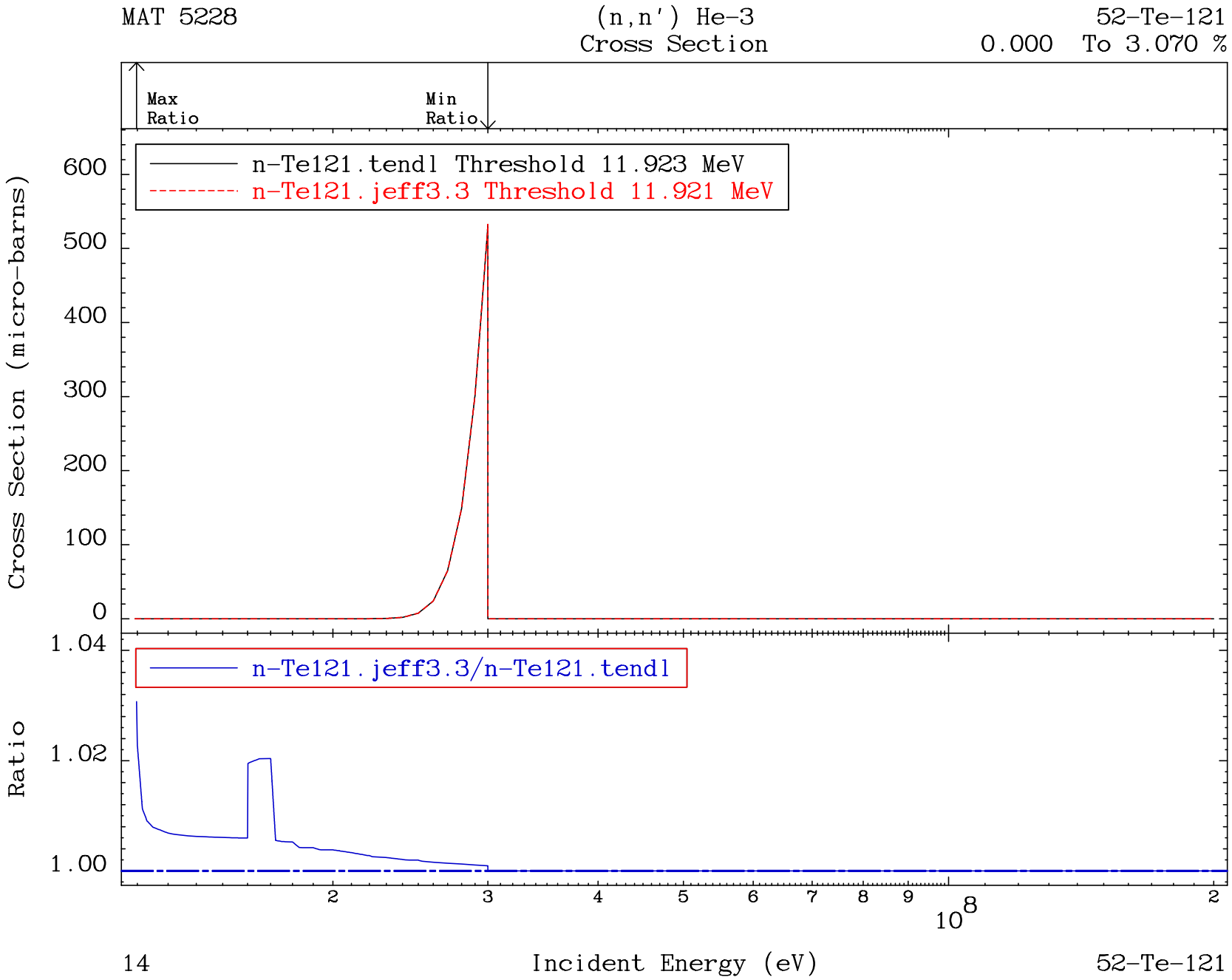

MAT 5228
(n,3n) α
Cross Section
52-Te-121
0.000 To 9999. %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 17.222 MeV
n-Te121.jeff3.3 Threshold 17.222 MeV
Cross Section (micro-barns)
200
150
100
50
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
52-Te-121

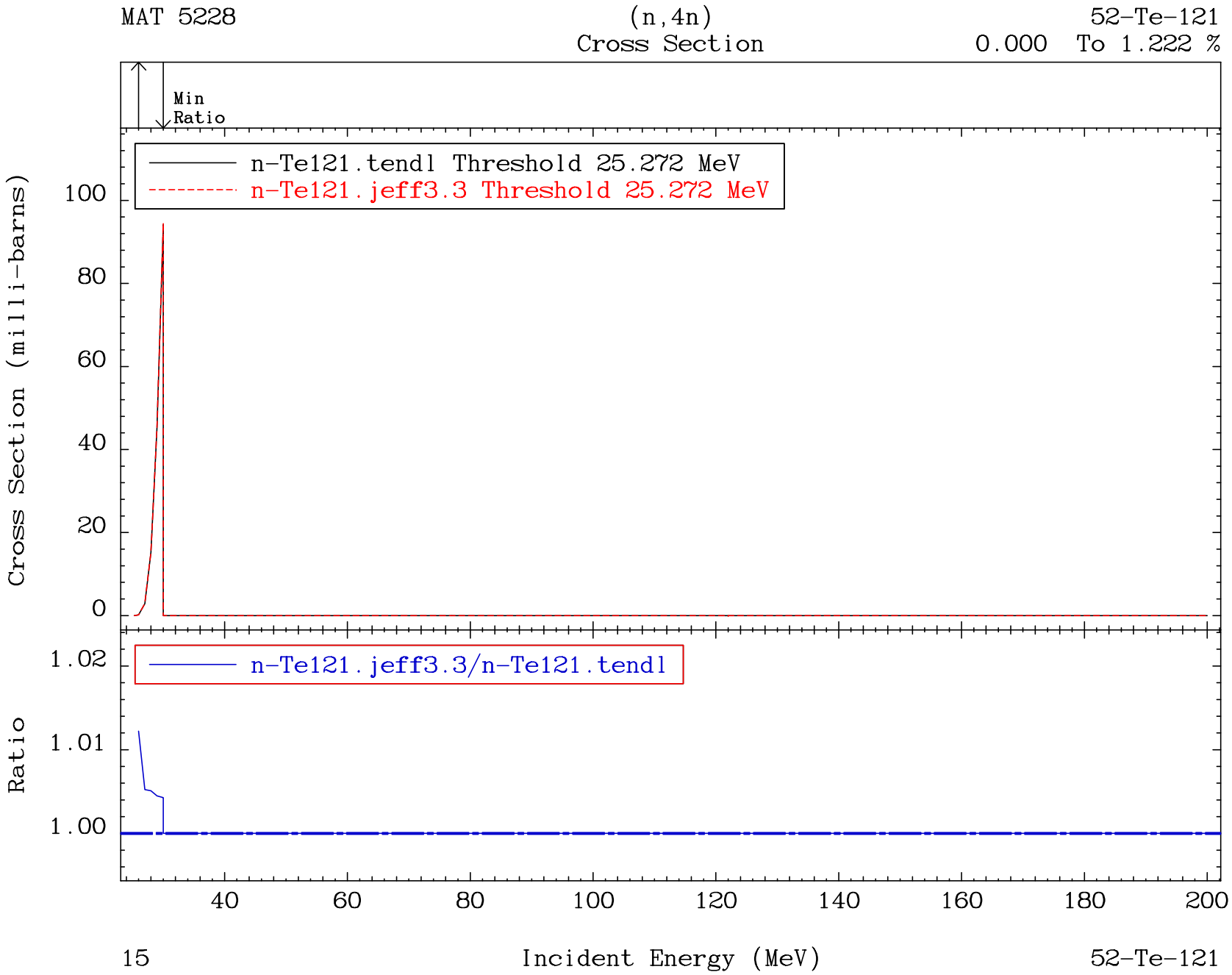

MAT 5228
(n,n') p
Cross Section
52-Te-121
0.000 To 8.725 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 7.4786 MeV
n-Te121.jeff3.3 Threshold 7.4771 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.10
1.05
1.00
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
52-Te-121

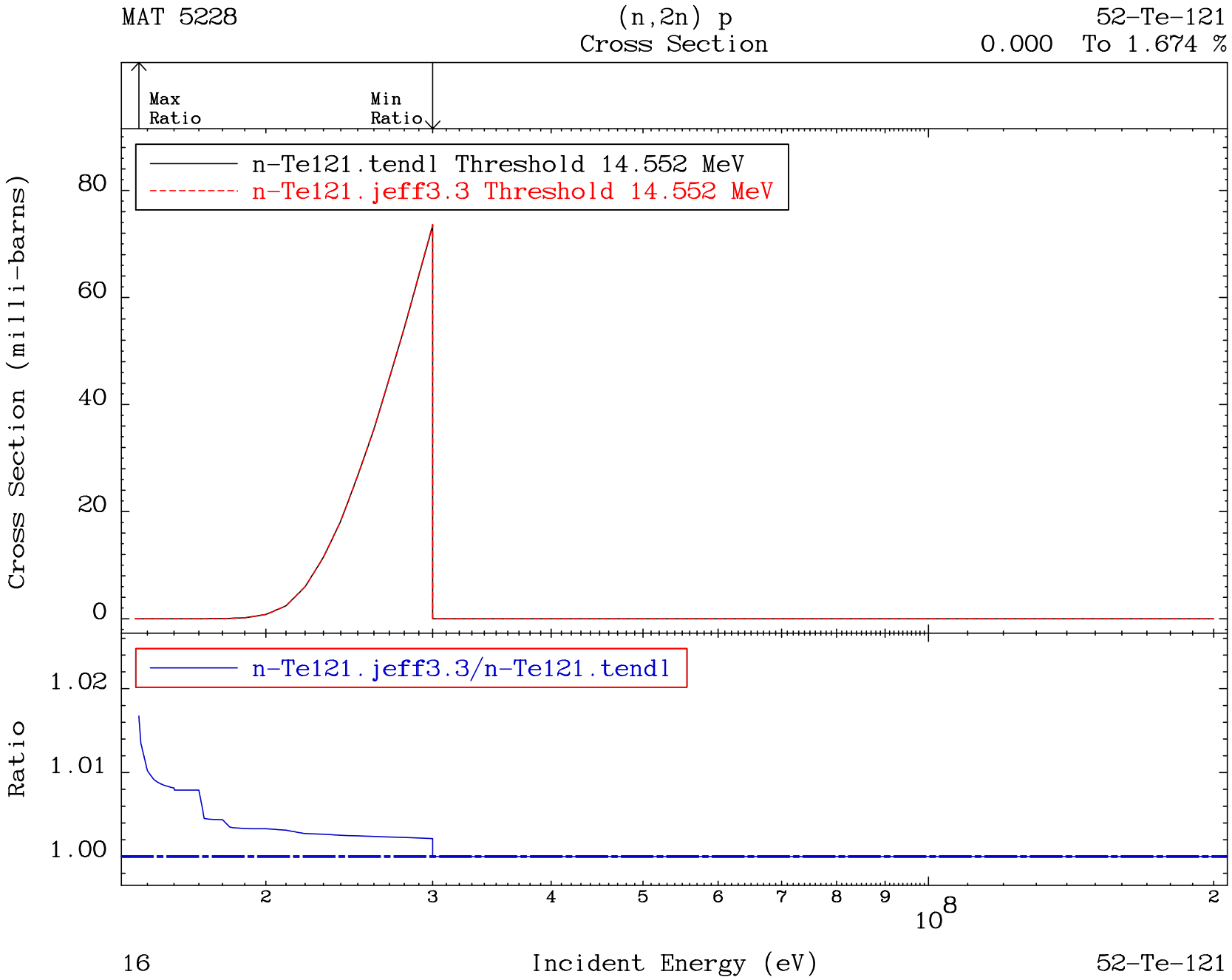

MAT 5228
(n,n') 2α
Cross Section
52-Te-121
-17.71 To 9999. %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 4.3884 MeV
n-Te121.jeff3.3 Threshold 4.3871 MeV
Cross Section (10^-9 barns)
200
150
100
50
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
10^3
10^2
10^1
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
52-Te-121

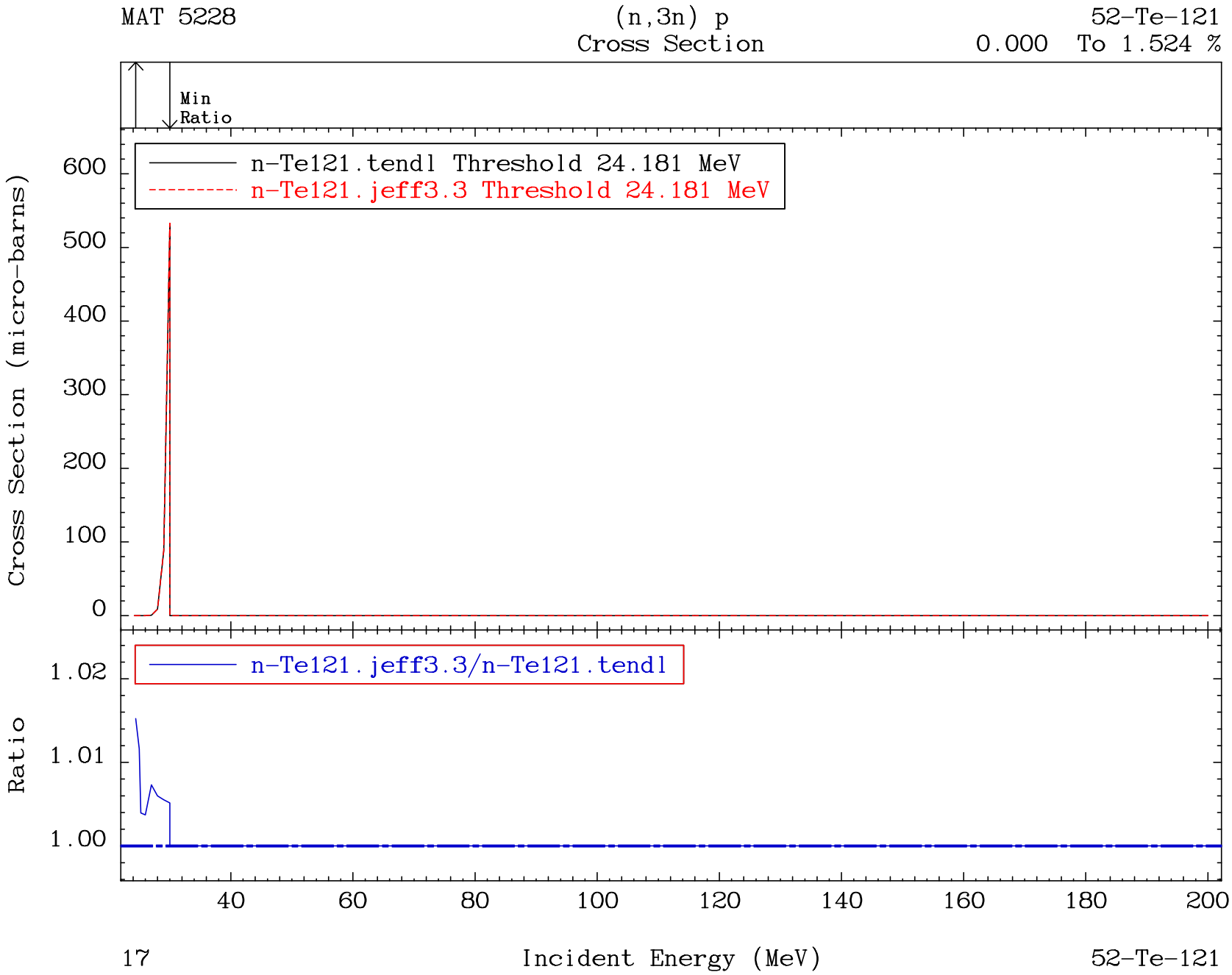

MAT 5228
(n,n') d
Cross Section
52-Te-121
0.000 To 1.201 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 12.309 MeV
n-Te121.jeff3.3 Threshold 12.308 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
52-Te-121

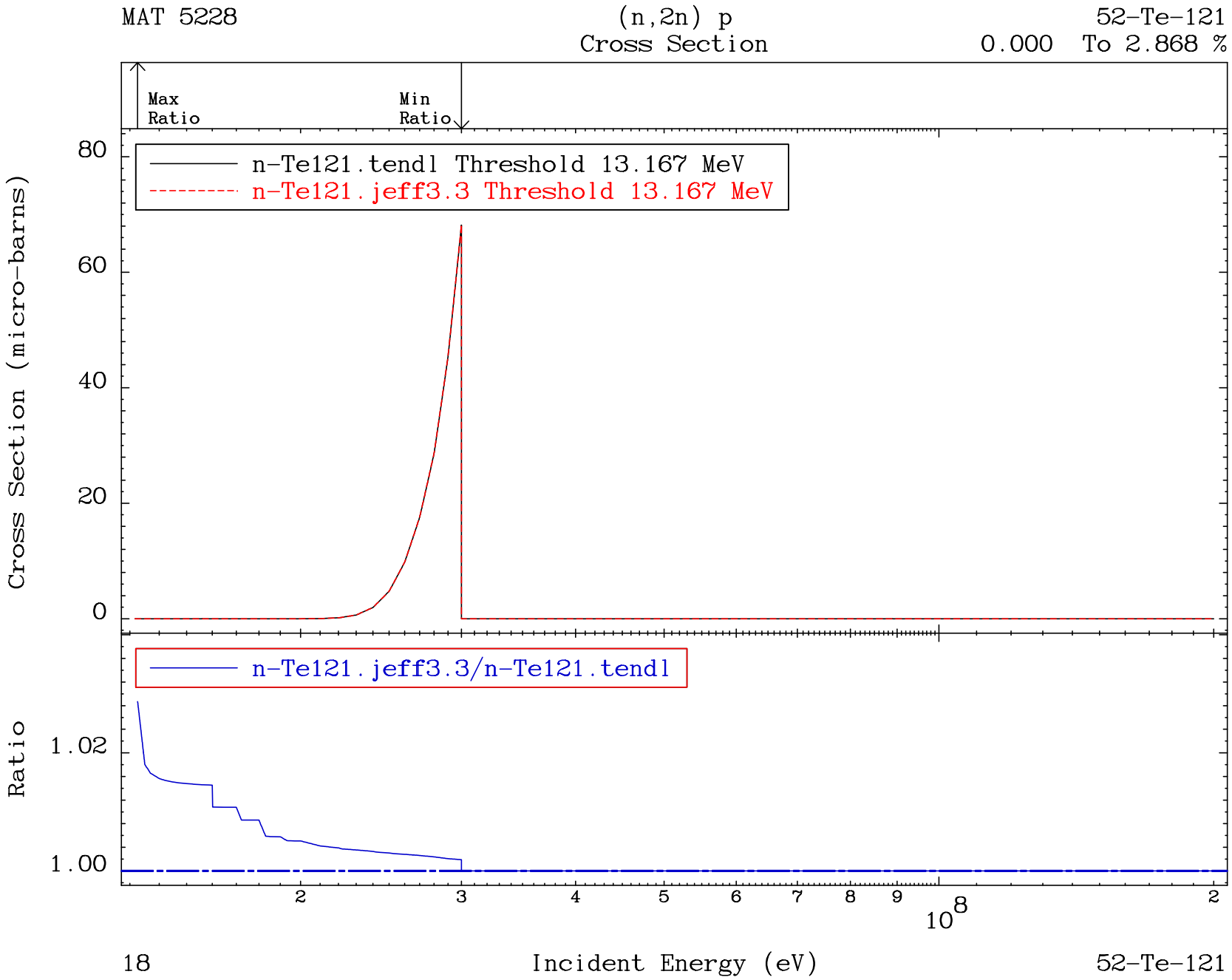

MAT 5228
(n,n') t
Cross Section
52-Te-121
0.000 To 1.779 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 15.628 MeV
n-Te121.jeff3.3 Threshold 15.628 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.00
1.01
1.02
2
3
4
5
6
7
8
9
2
10^8
13
Incident Energy (eV)
52-Te-121

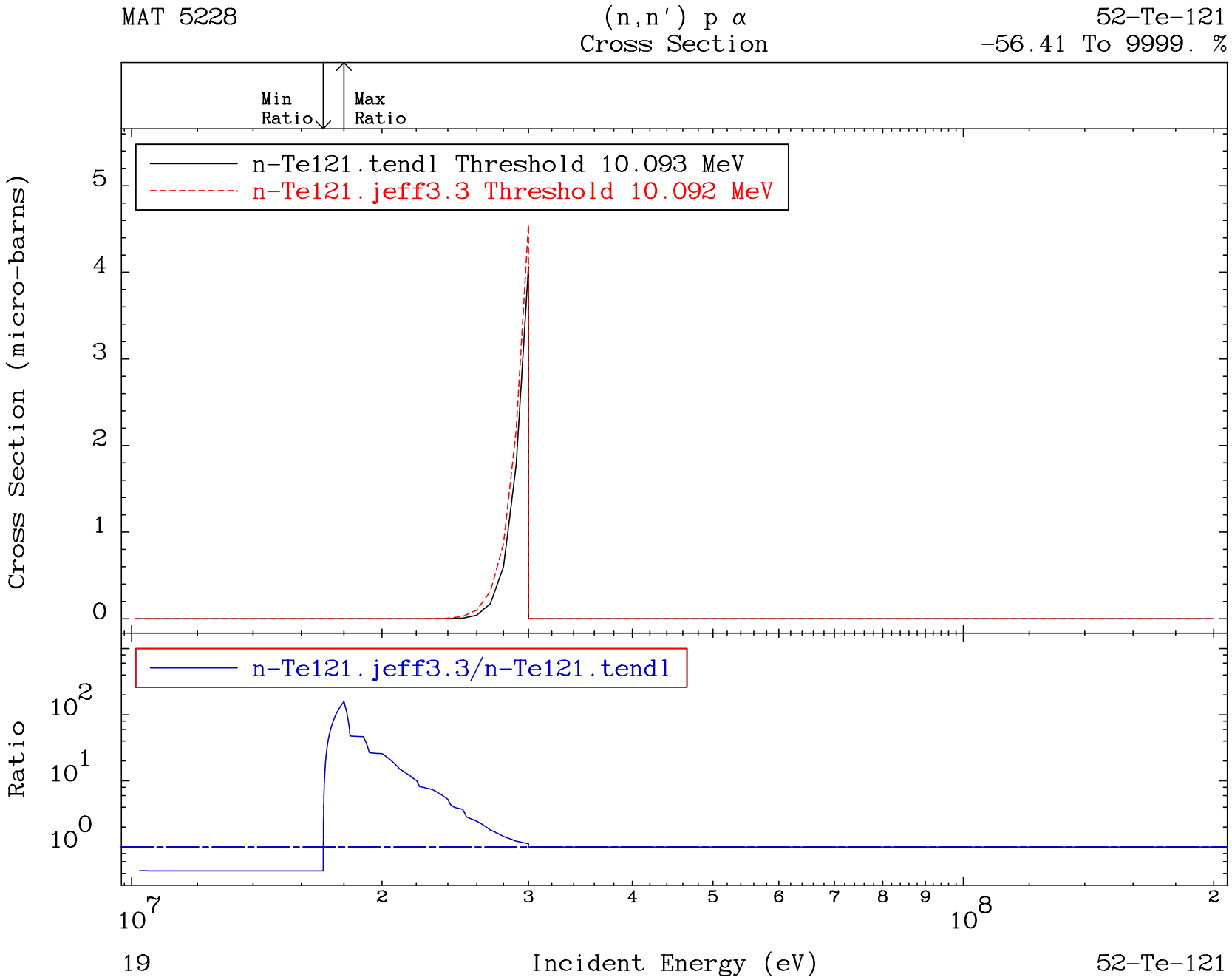

MAT 5228
(n,n') He-3
Cross Section
52-Te-121
0.000 To 3.070 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 11.923 MeV
n-Te121.jeff3.3 Threshold 11.921 MeV
Cross Section (micro-barns)
600
500
400
300
200
100
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.04
1.02
1.00
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
52-Te-121

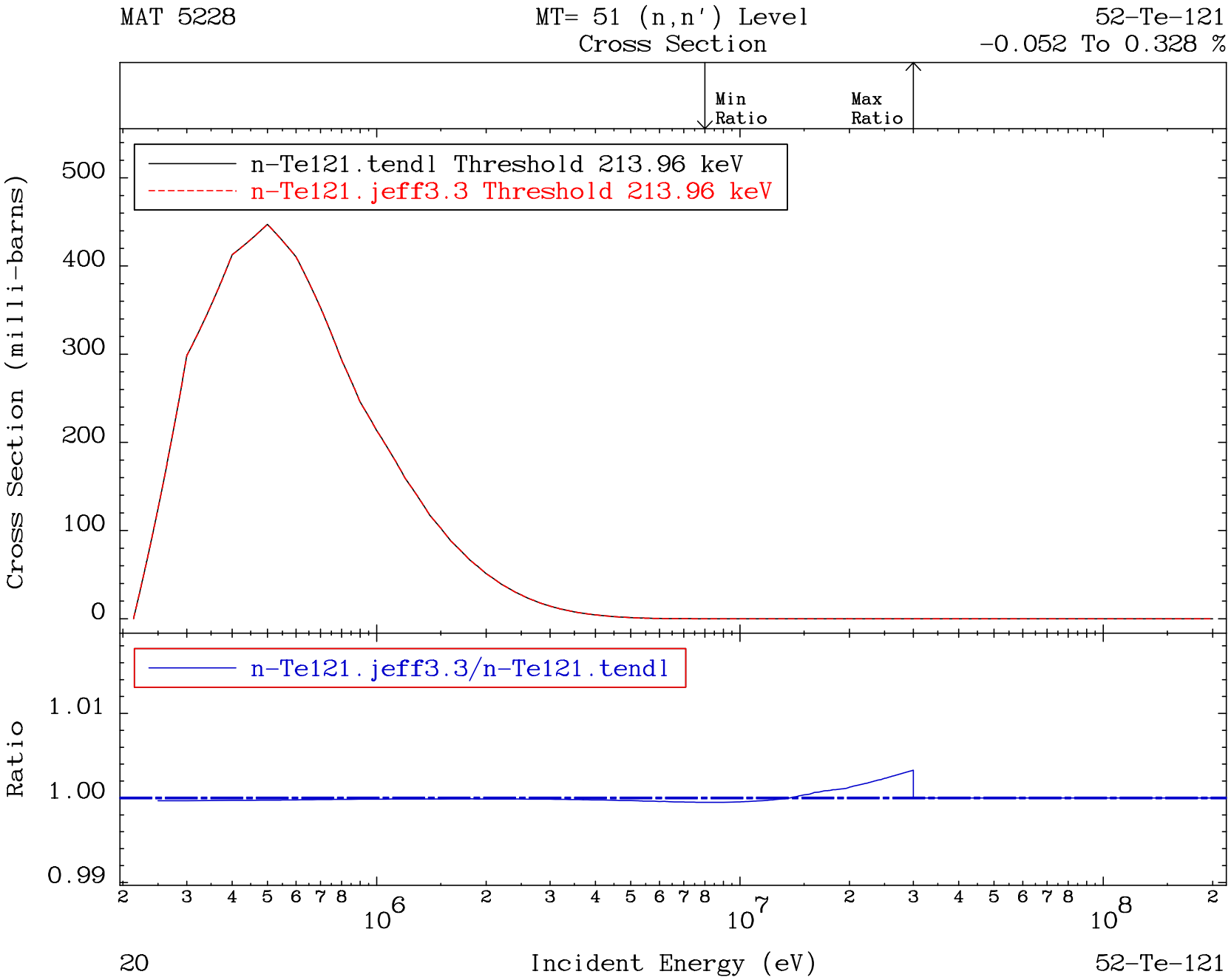

MAT 5228
(n,4n)
Cross Section
52-Te-121
0.000 To 1.222 %
Min
Ratio
n-Te121.tendl Threshold 25.272 MeV
n-Te121.jeff3.3 Threshold 25.272 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.02
1.01
1.00
40
60
80
100
120
140
160
180
200
15
Incident Energy (MeV)
52-Te-121

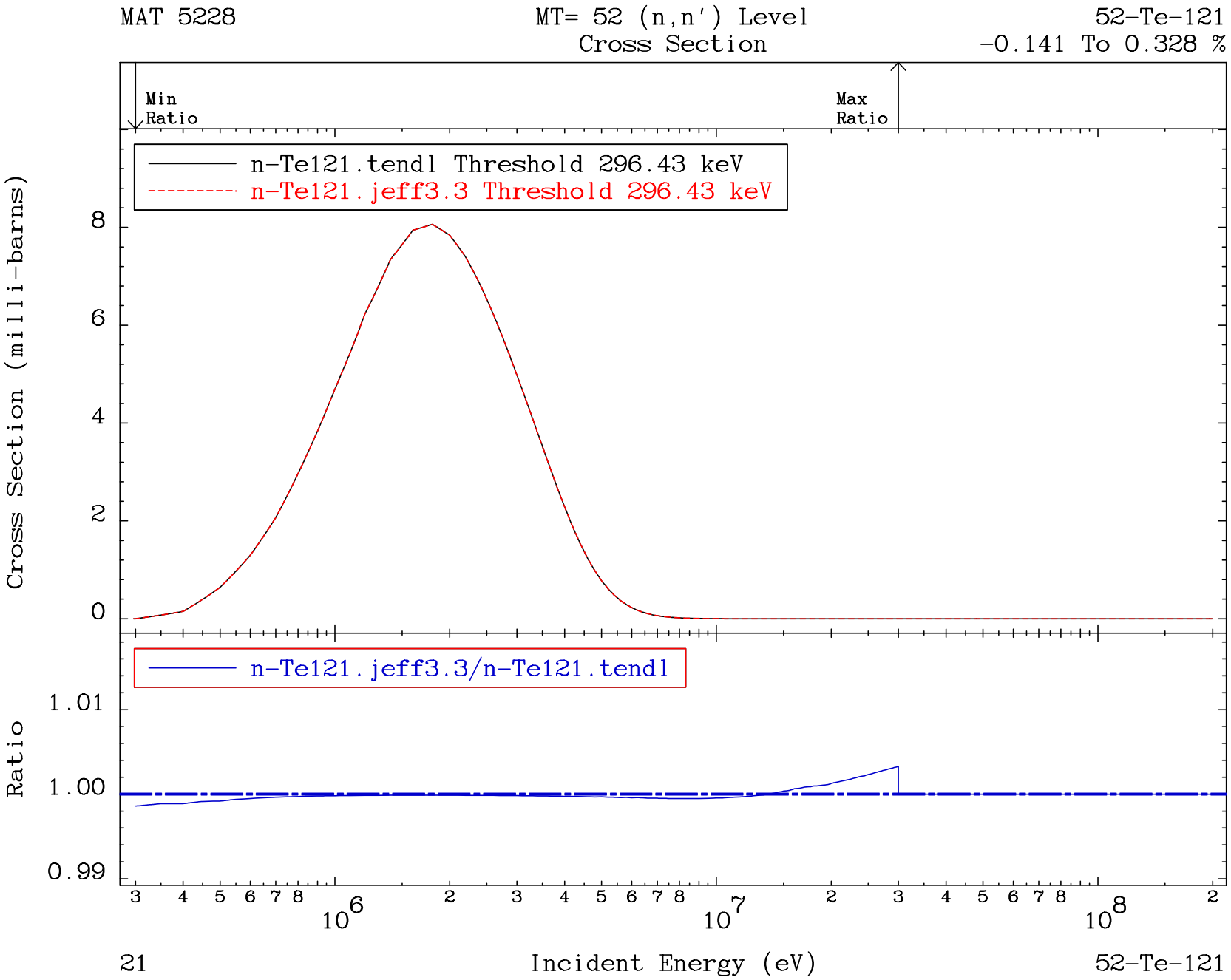

MAT 5228
(n,2n) p
Cross Section
52-Te-121
0.000 To 1.674 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 14.552 MeV
n-Te121.jeff3.3 Threshold 14.552 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
16
Incident Energy (eV)
52-Te-121

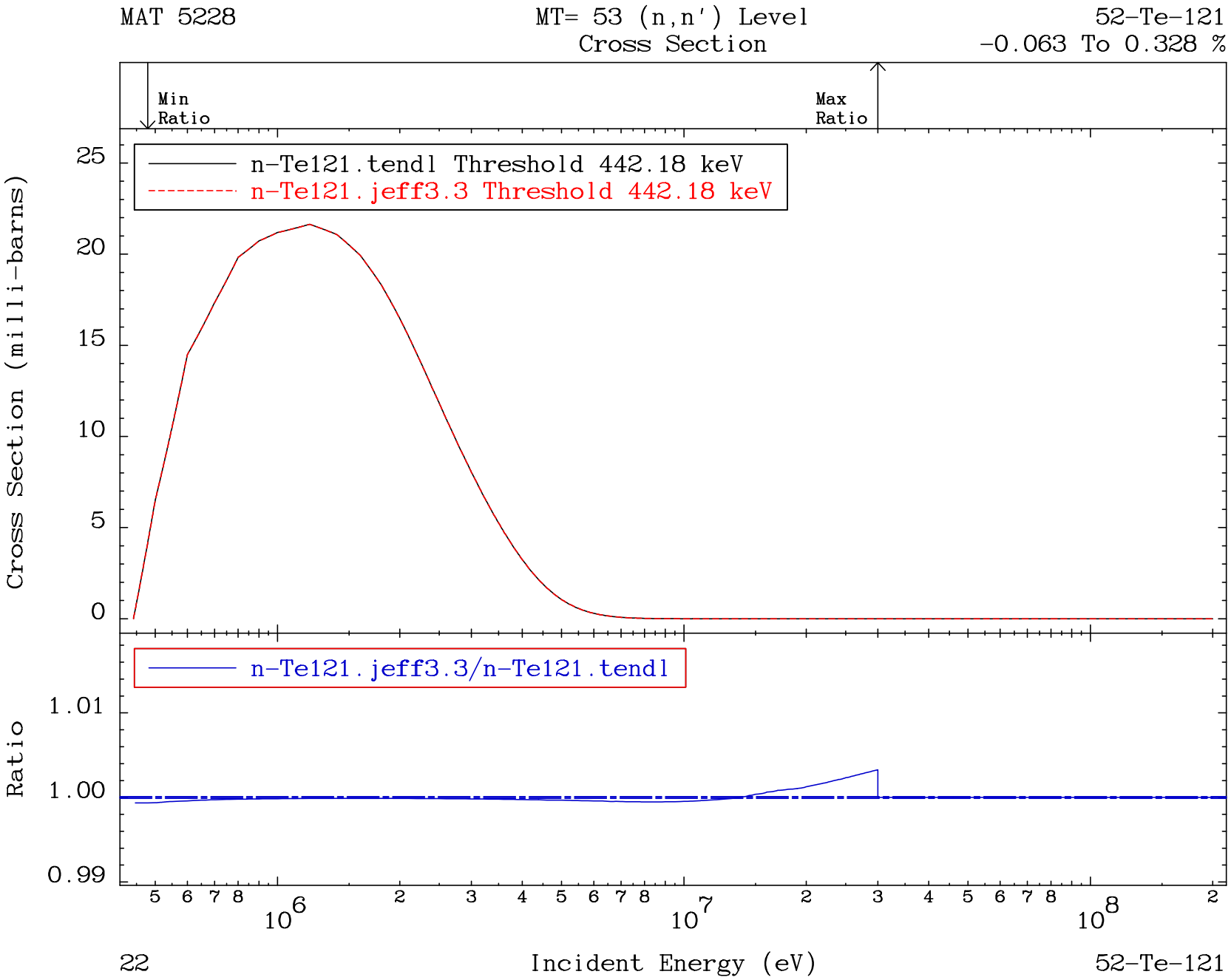

MAT 5228
(n,3n) p
Cross Section
52-Te-121
0.000 To 1.524 %
Min
Ratio
n-Te121.tendl Threshold 24.181 MeV
n-Te121.jeff3.3 Threshold 24.181 MeV
Cross Section (micro-barns)
600
500
400
300
200
100
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.02
1.01
1.00
40
60
80
100
120
140
160
180
200
17
Incident Energy (MeV)
52-Te-121

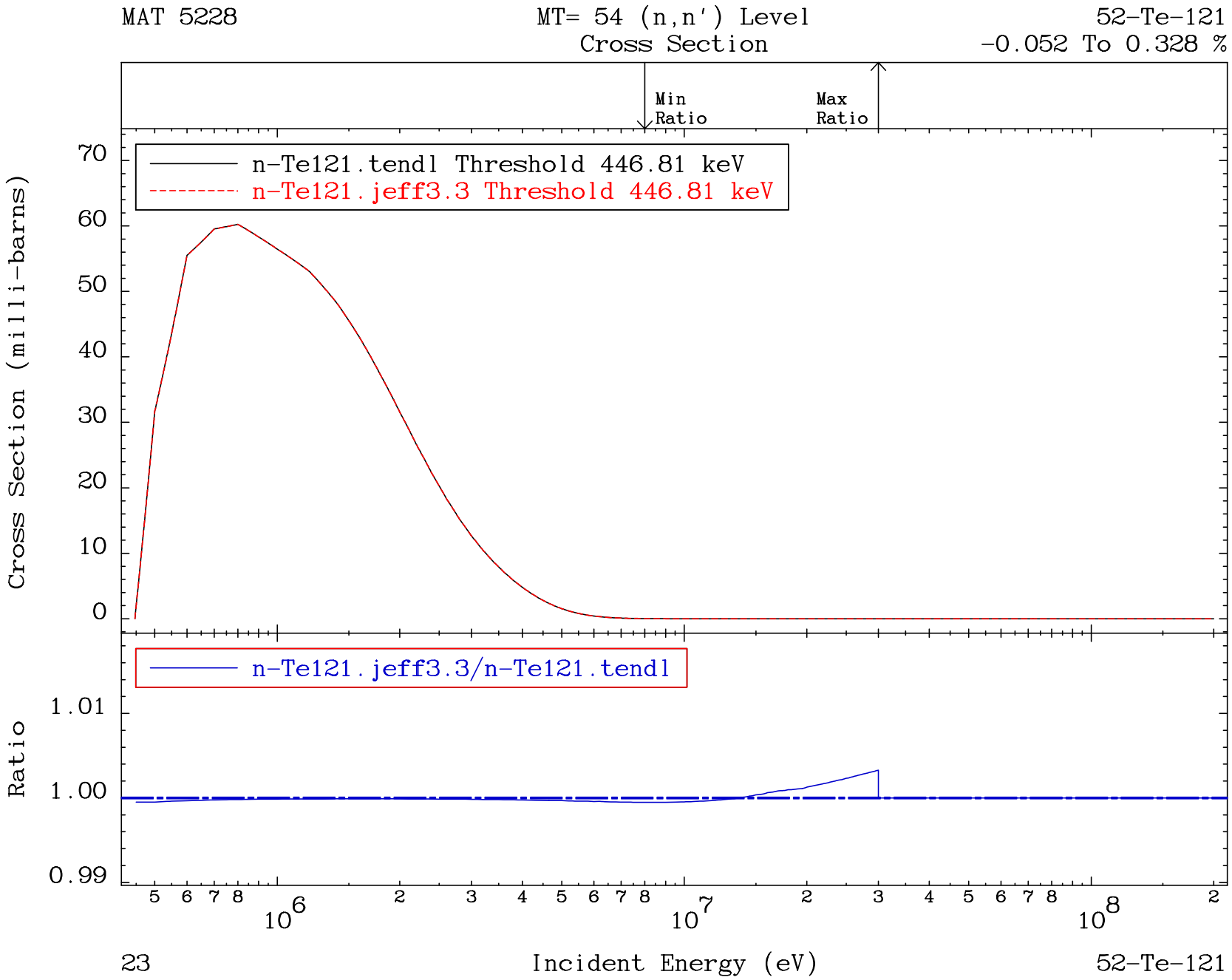

MAT 5228
(n,2n) p
Cross Section
52-Te-121
0.000 To 2.868 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 13.167 MeV
n-Te121.jeff3.3 Threshold 13.167 MeV
Cross Section (micro-barns)
80
60
40
20
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.02
1.00
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
52-Te-121

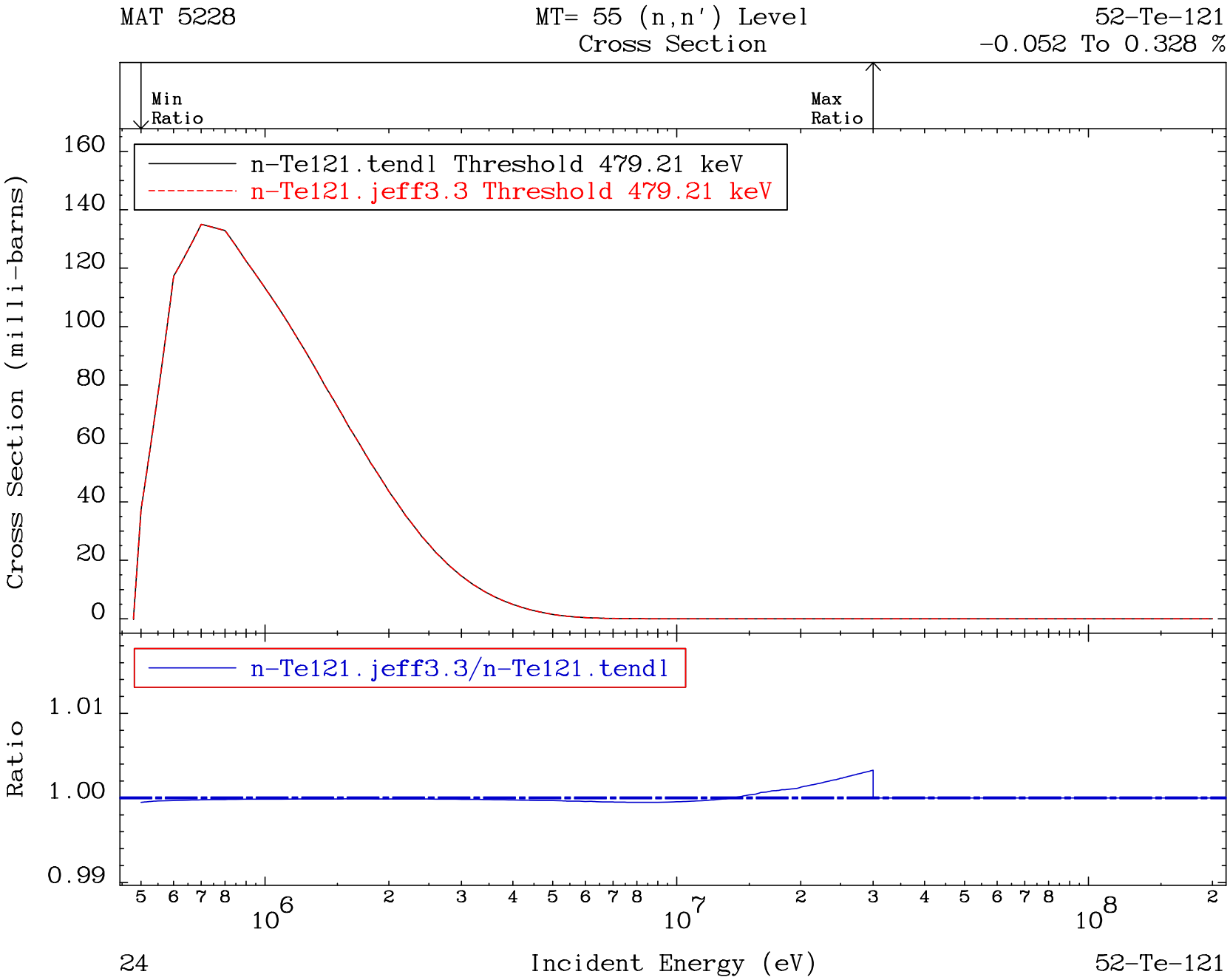

MAT 5228
(n,n') p α
Cross Section
52-Te-121
-56.41 To 9999. %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 10.093 MeV
n-Te121.jeff3.3 Threshold 10.092 MeV
Cross Section (micro-barns)
0
1
2
3
4
5
n-Te121.jeff3.3/n-Te121.tendl
Ratio
10^2
10^1
10^0
10^7
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
52-Te-121

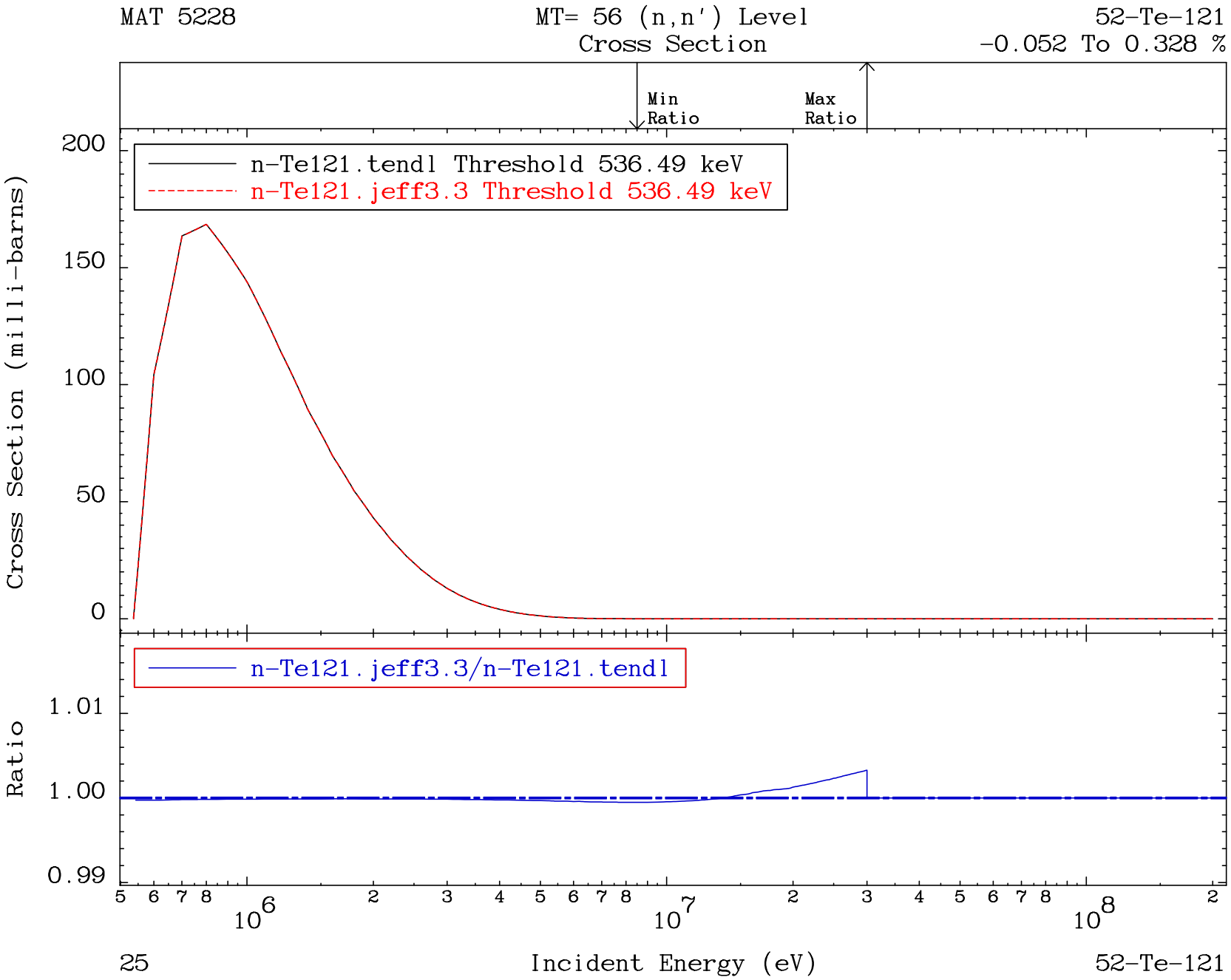

MAT 5228
MT= 51 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.328 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 213.96 keV
n-Te121.jeff3.3 Threshold 213.96 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
52-Te-121

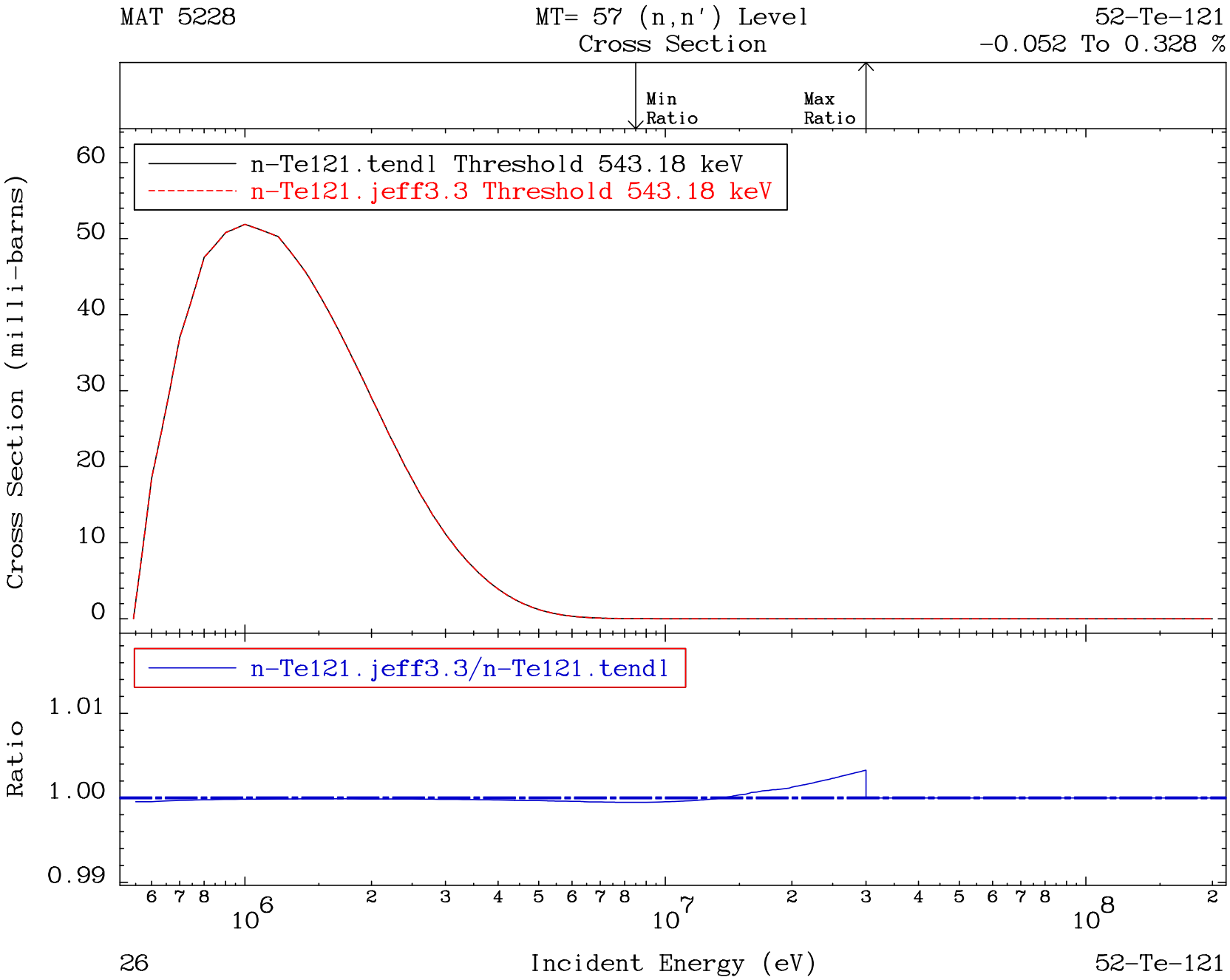

MAT 5228
MT= 52 (n,n') Level
Cross Section
52-Te-121
-0.141 To 0.328 %
Min
Ratio
Max
Ratio
n-Te121.tendl Threshold 296.43 keV
n-Te121.jeff3.3 Threshold 296.43 keV
Cross Section (milli-barns)
0
2
4
6
8
n-Te121.jeff3.3/n-Te121.tendl
Ratio
0.99
1.00
1.01
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
52-Te-121

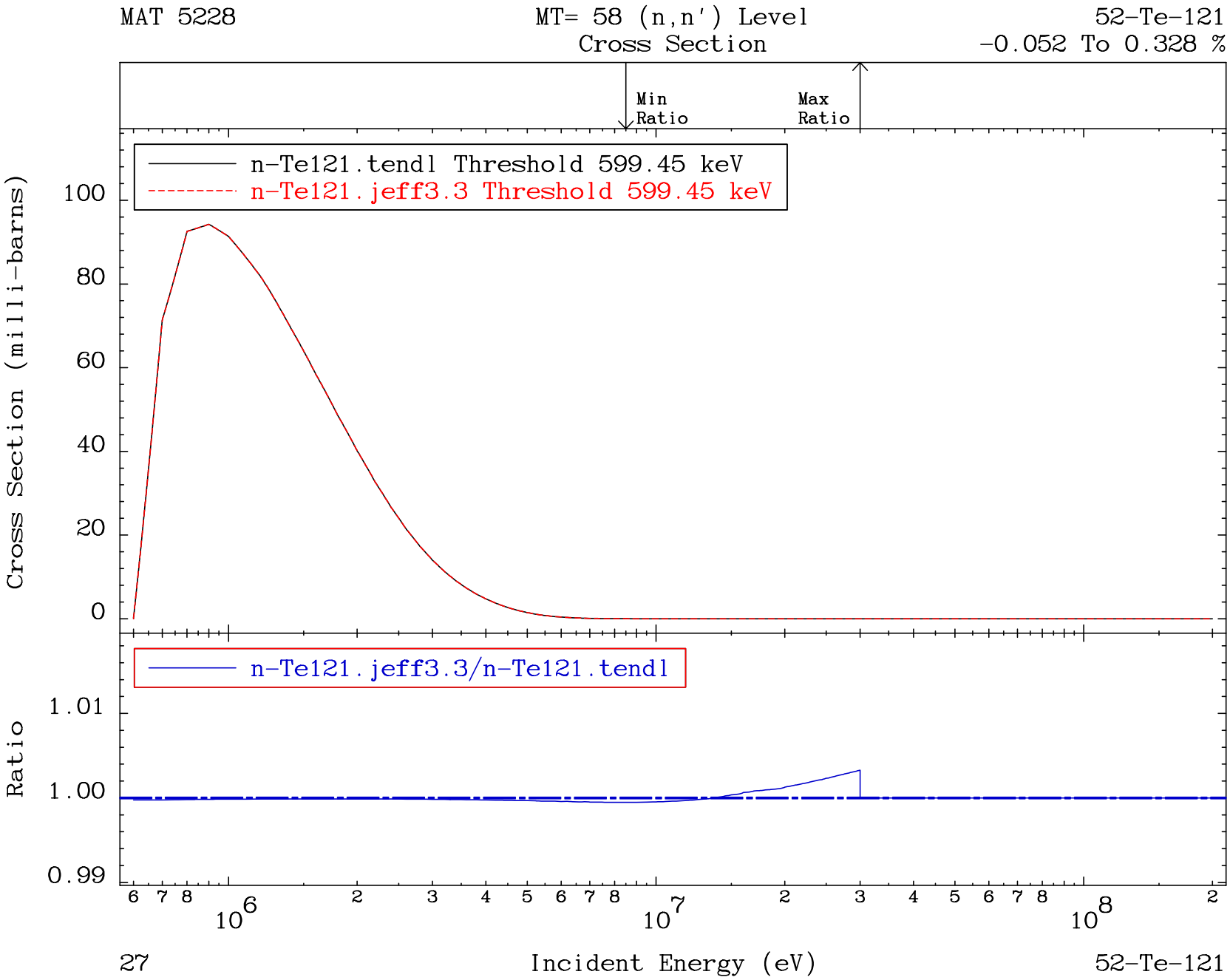

MAT 5228
MT= 53 (n,n') Level
Cross Section
52-Te-121
-0.063 To 0.328 %
Min
Ratio
Max
Ratio
n-Te121.tendl Threshold 442.18 keV
n-Te121.jeff3.3 Threshold 442.18 keV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
52-Te-121

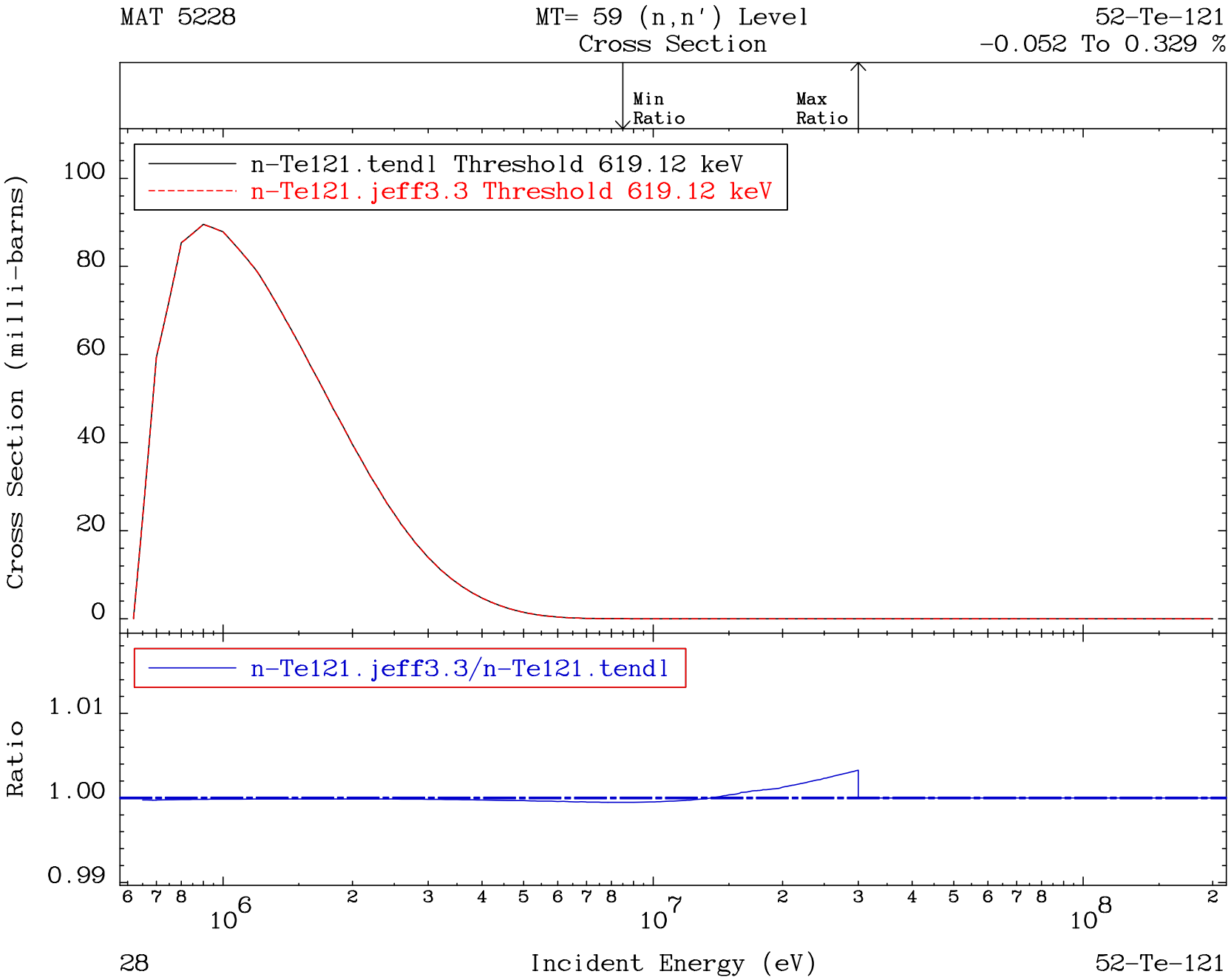

MAT 5228
MT= 54 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.328 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 446.81 keV
n-Te121.jeff3.3 Threshold 446.81 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
52-Te-121

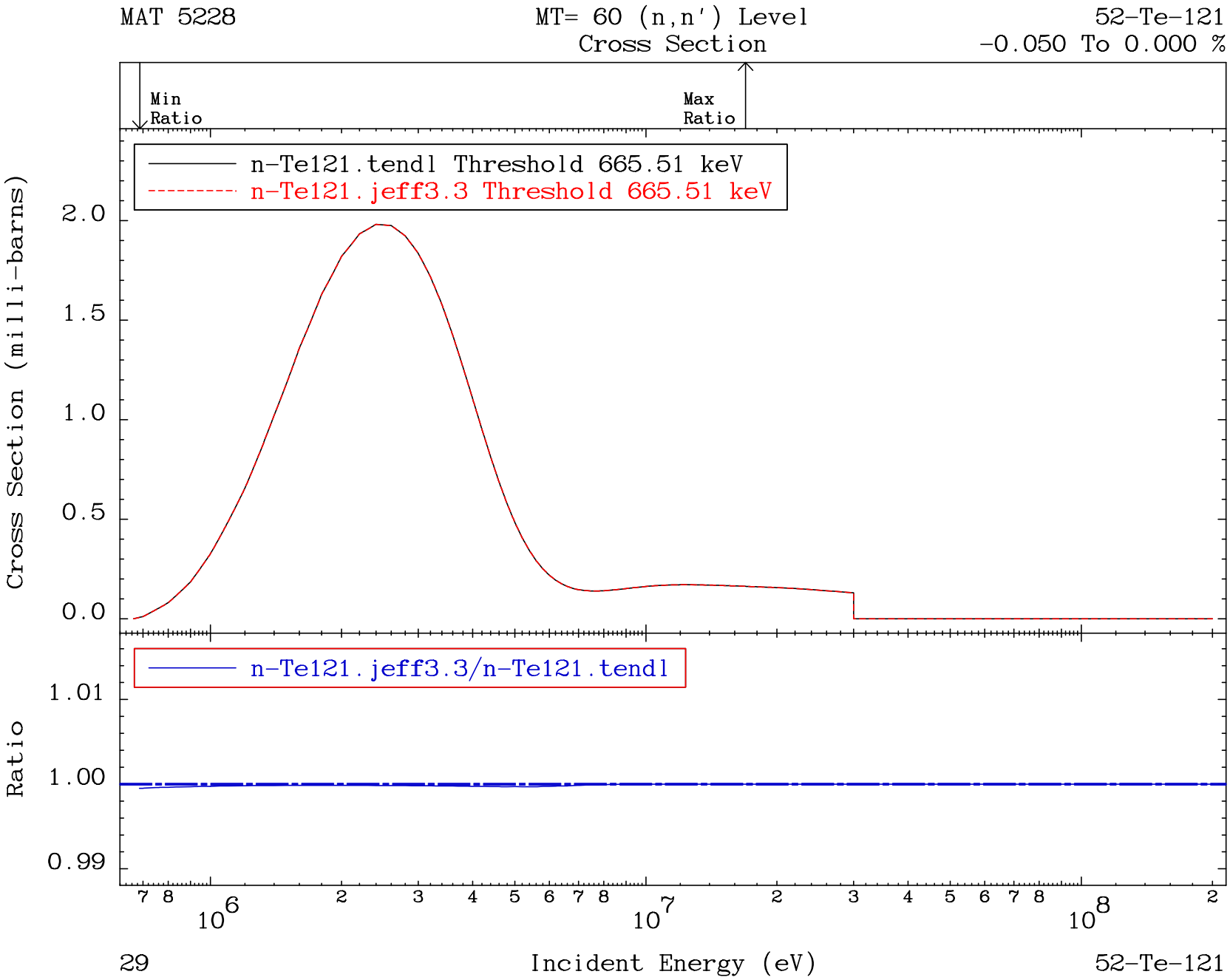

MAT 5228
MT= 55 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.328 %
Min
Ratio
Max
Ratio
n-Te121.tendl Threshold 479.21 keV
n-Te121.jeff3.3 Threshold 479.21 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
52-Te-121

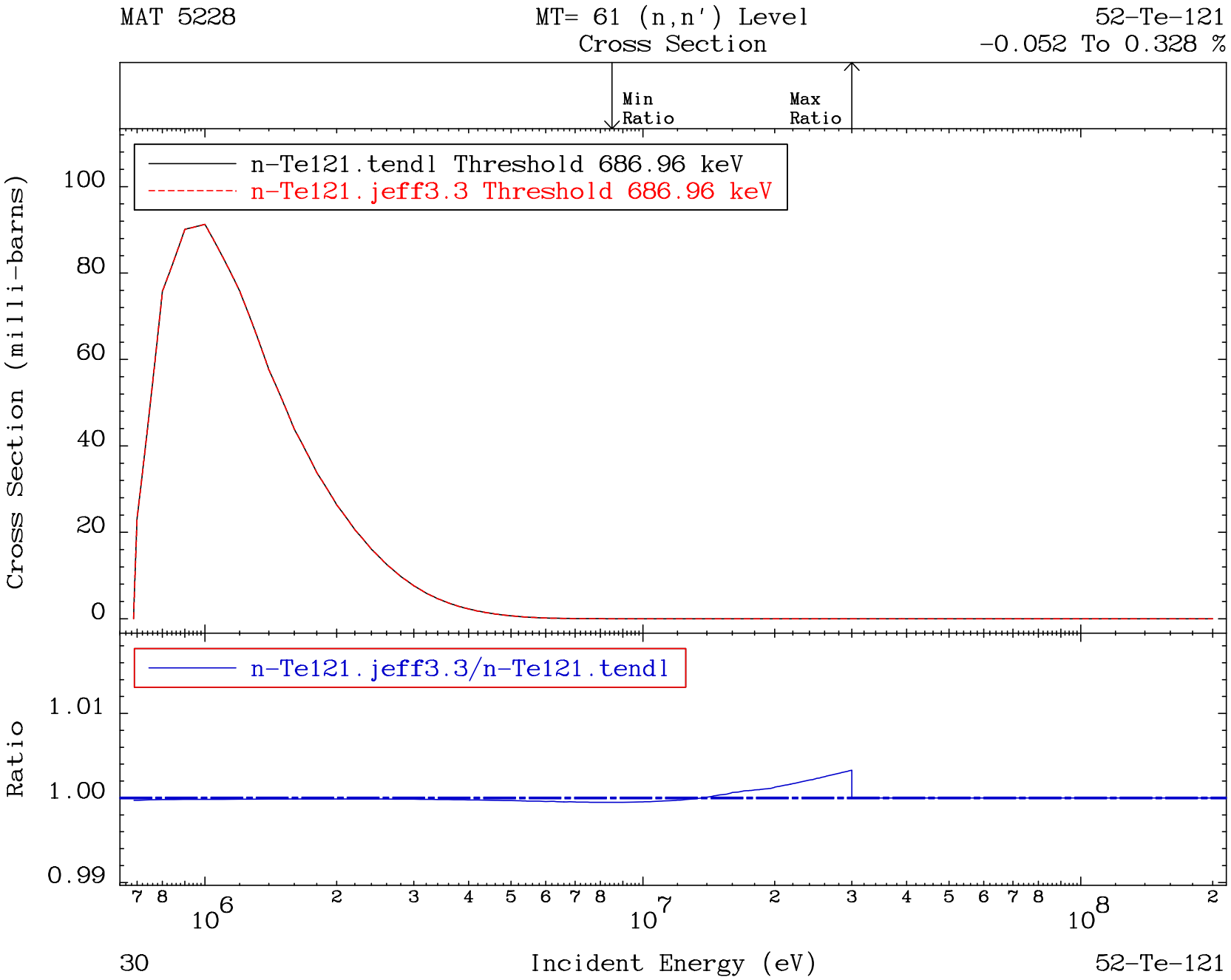

MAT 5228
MT= 56 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.328 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 536.49 keV
n-Te121.jeff3.3 Threshold 536.49 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
25
Incident Energy (eV)
52-Te-121

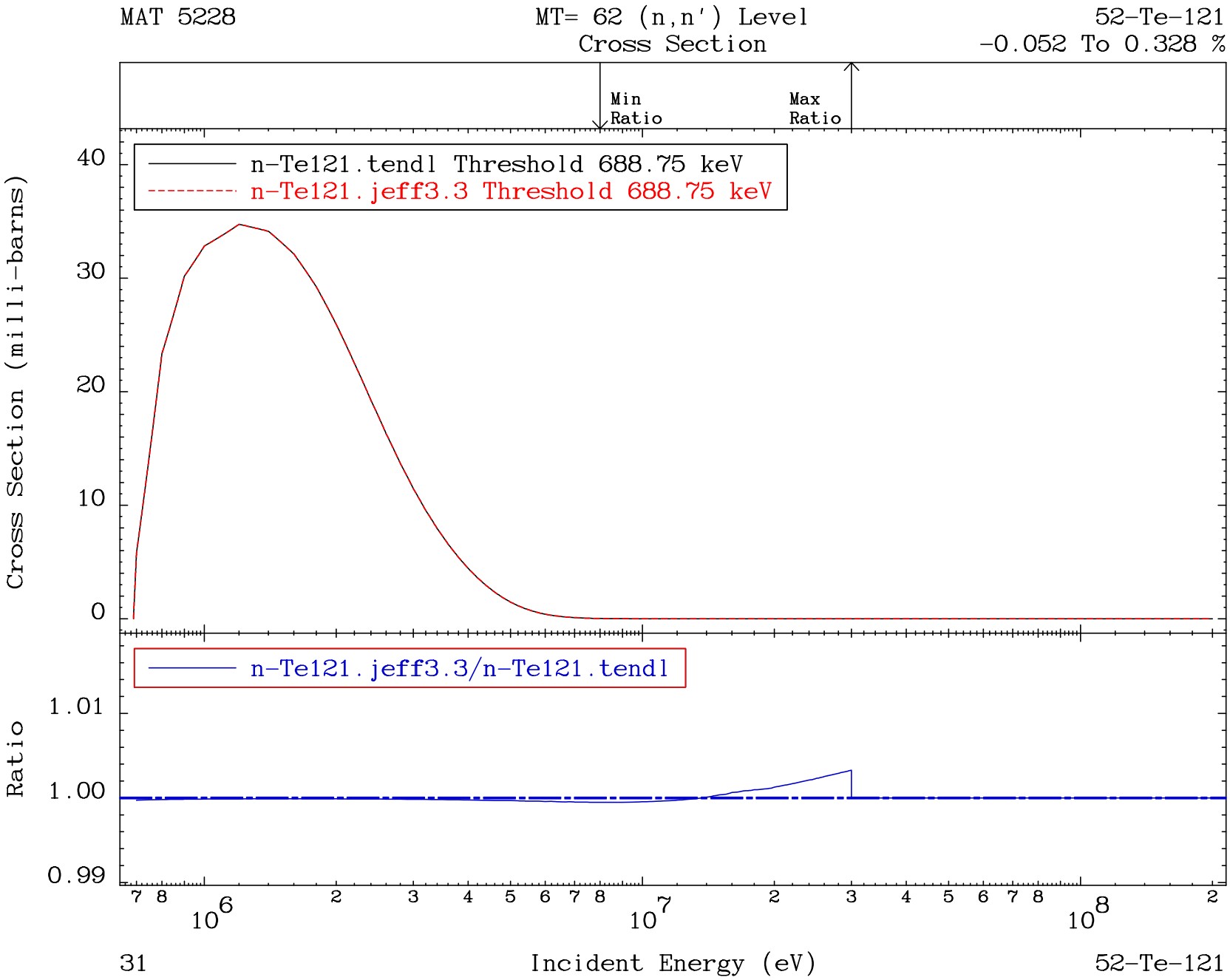

MAT 5228
MT= 57 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.328 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 543.18 keV
n-Te121.jeff3.3 Threshold 543.18 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
52-Te-121

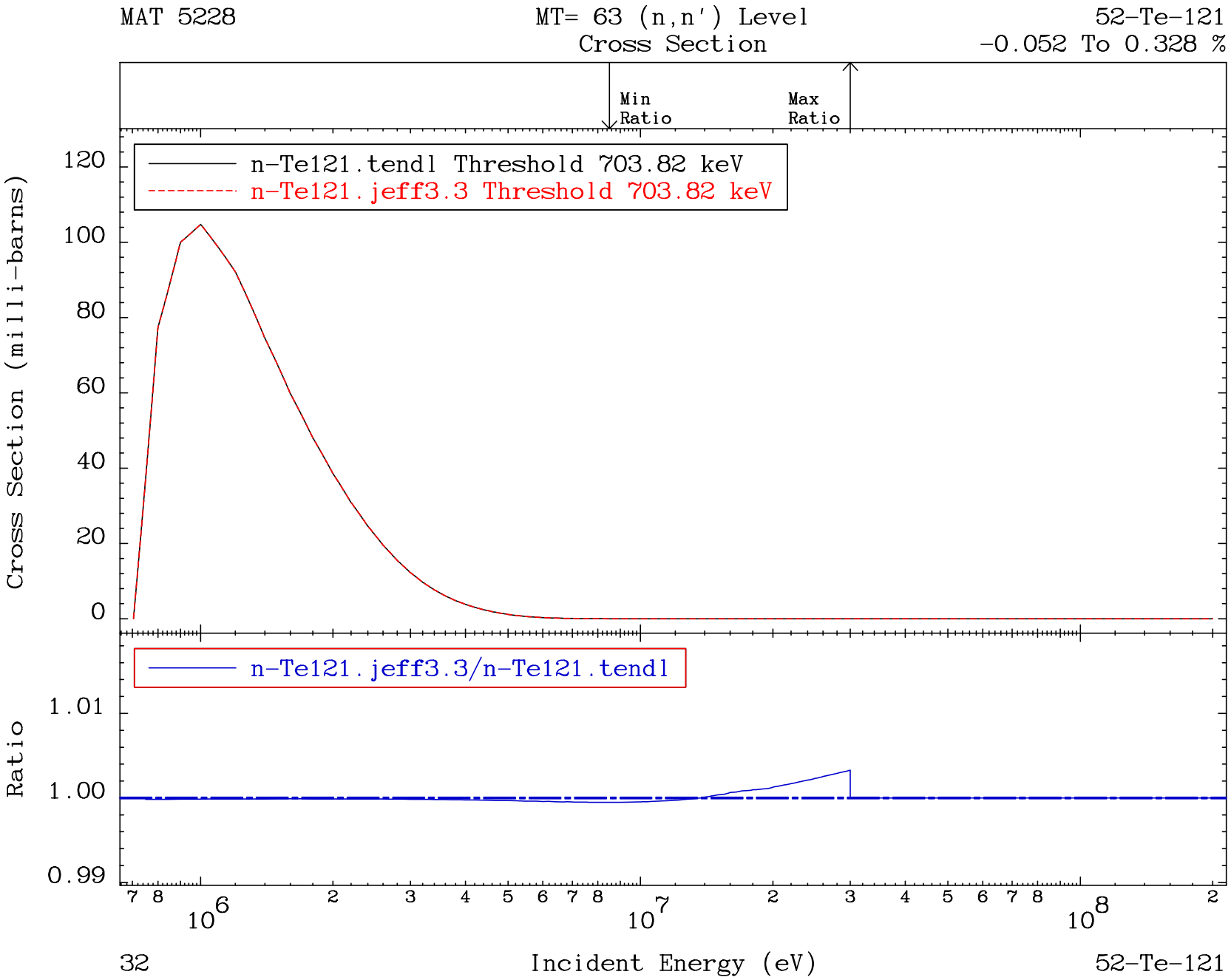

MAT 5228
MT= 58 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.328 %
Min
Ratio
Max
Ratio
n-Te121.tendl Threshold 599.45 keV
n-Te121.jeff3.3 Threshold 599.45 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
52-Te-121

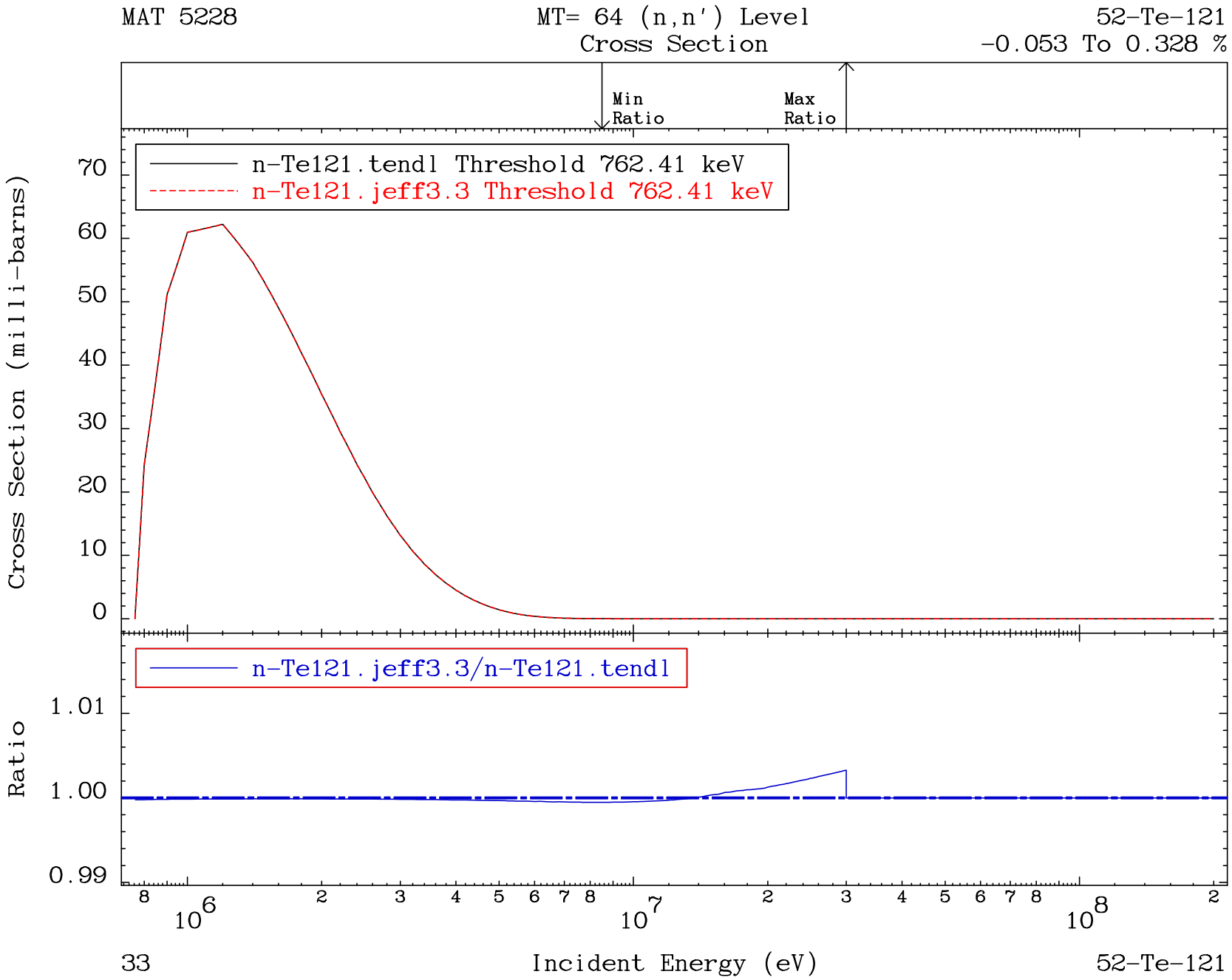

MAT 5228
MT= 59 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.329 %
Min
Ratio
Max
Ratio
n-Te121.tendl Threshold 619.12 keV
n-Te121.jeff3.3 Threshold 619.12 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
52-Te-121

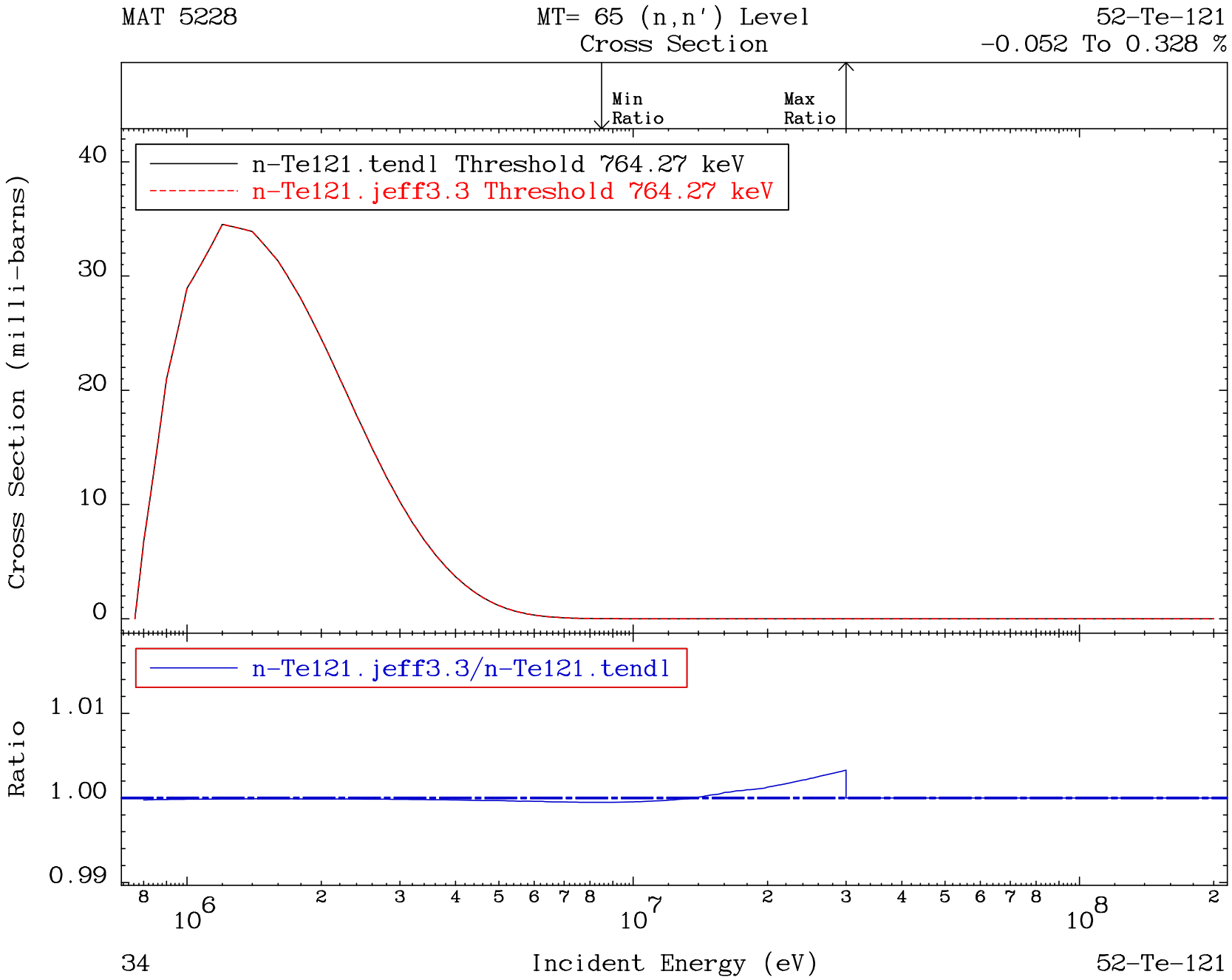

MAT 5228
MT= 60 (n,n') Level
Cross Section
52-Te-121
-0.050 To 0.000 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 665.51 keV
n-Te121.jeff3.3 Threshold 665.51 keV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
29
Incident Energy (eV)
52-Te-121

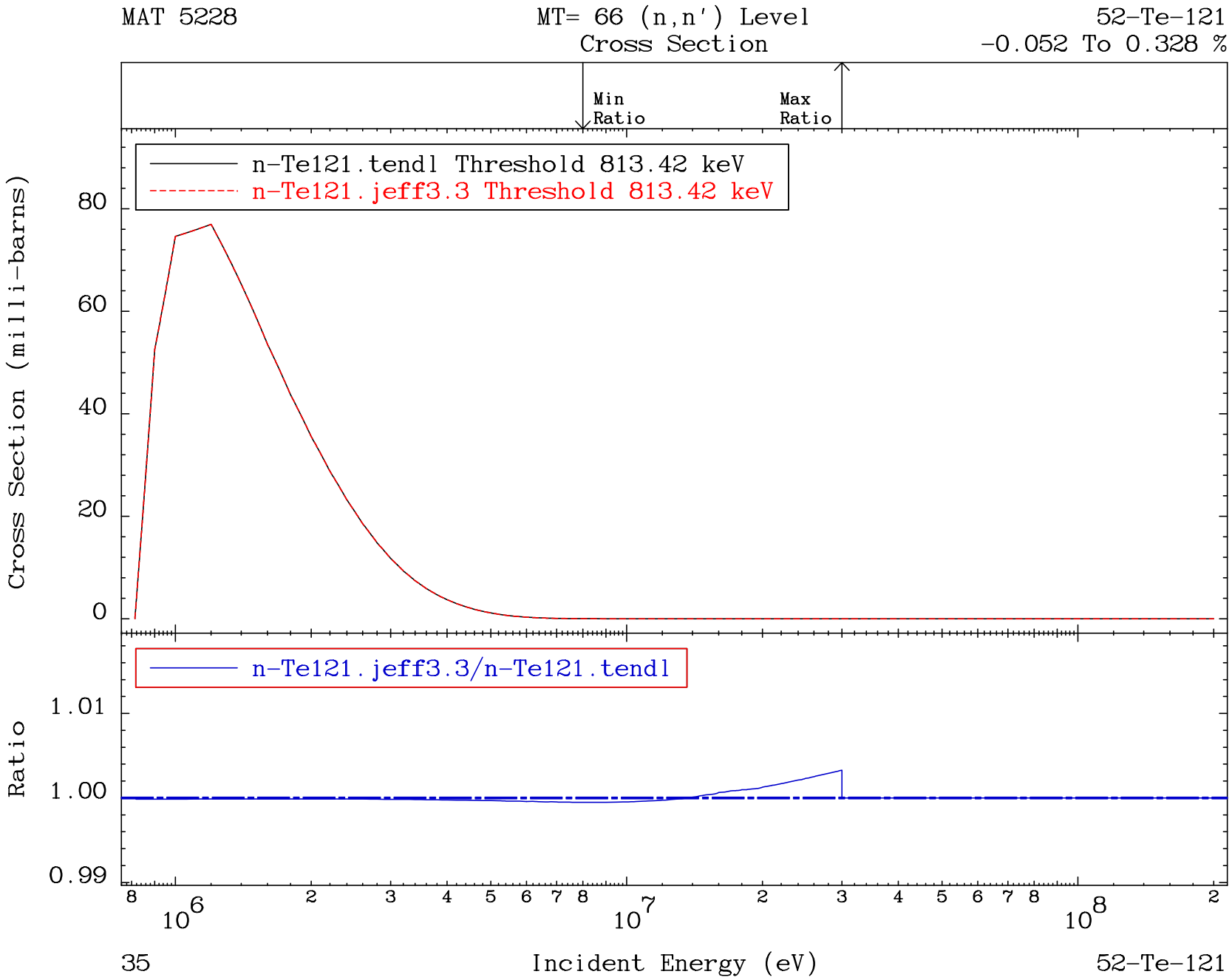

MAT 5228
MT= 61 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.328 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 686.96 keV
n-Te121.jeff3.3 Threshold 686.96 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
52-Te-121

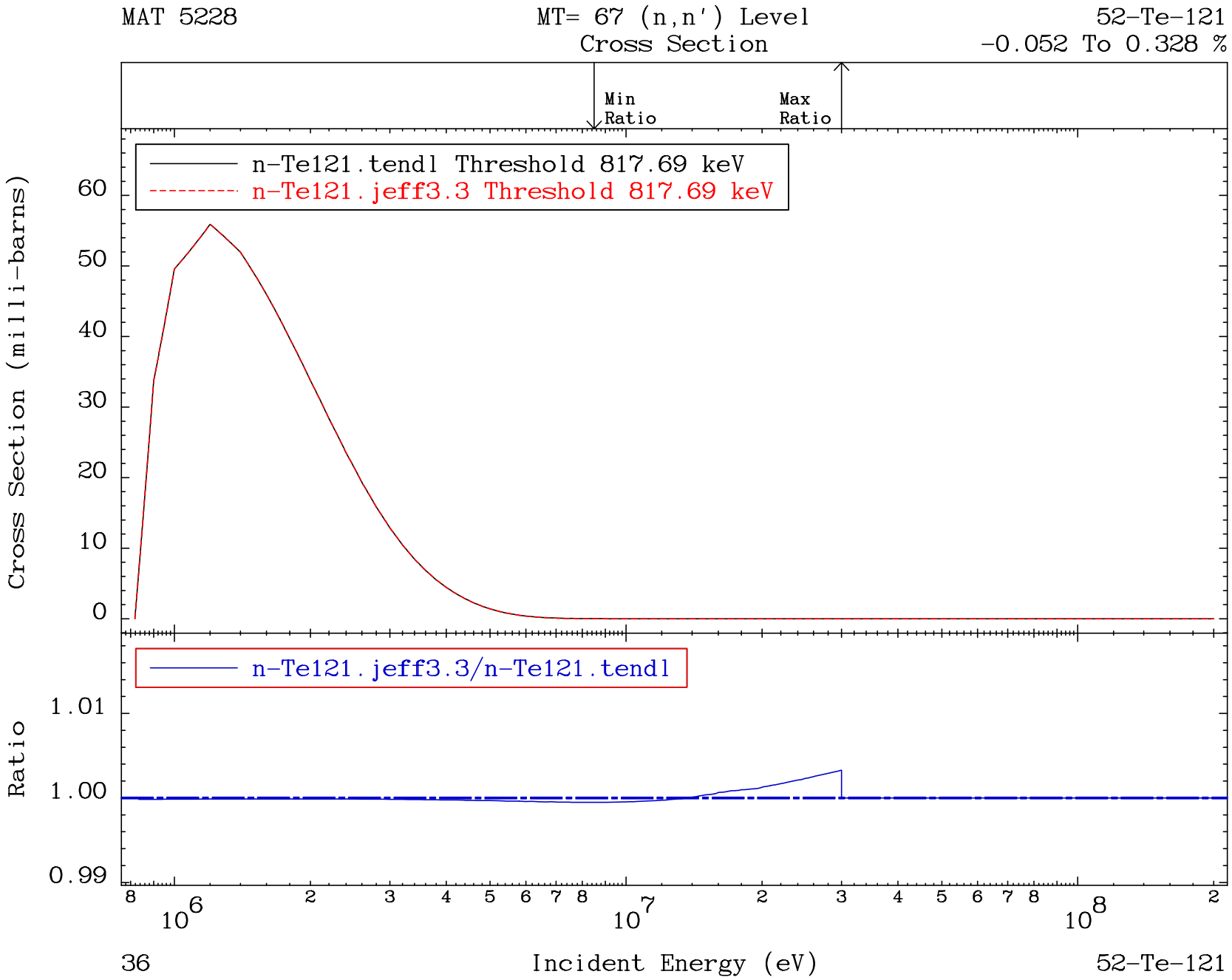

MAT 5228
MT= 62 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.328 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 688.75 keV
n-Te121.jeff3.3 Threshold 688.75 keV
Cross Section (milli-barns)
40
30
20
10
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
52-Te-121

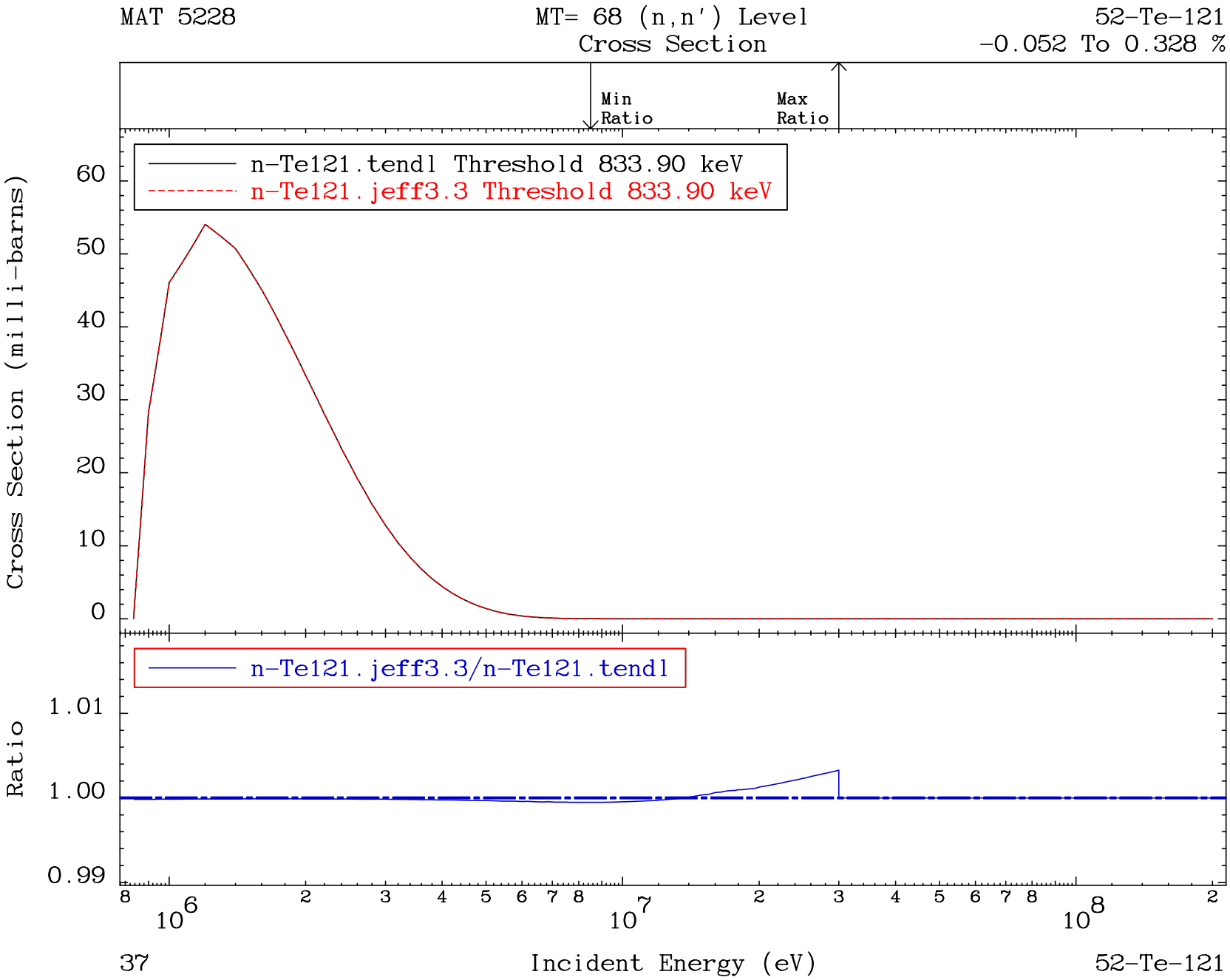

MAT 5228
MT= 63 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.328 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 703.82 keV
n-Te121.jeff3.3 Threshold 703.82 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
32
Incident Energy (eV)
52-Te-121

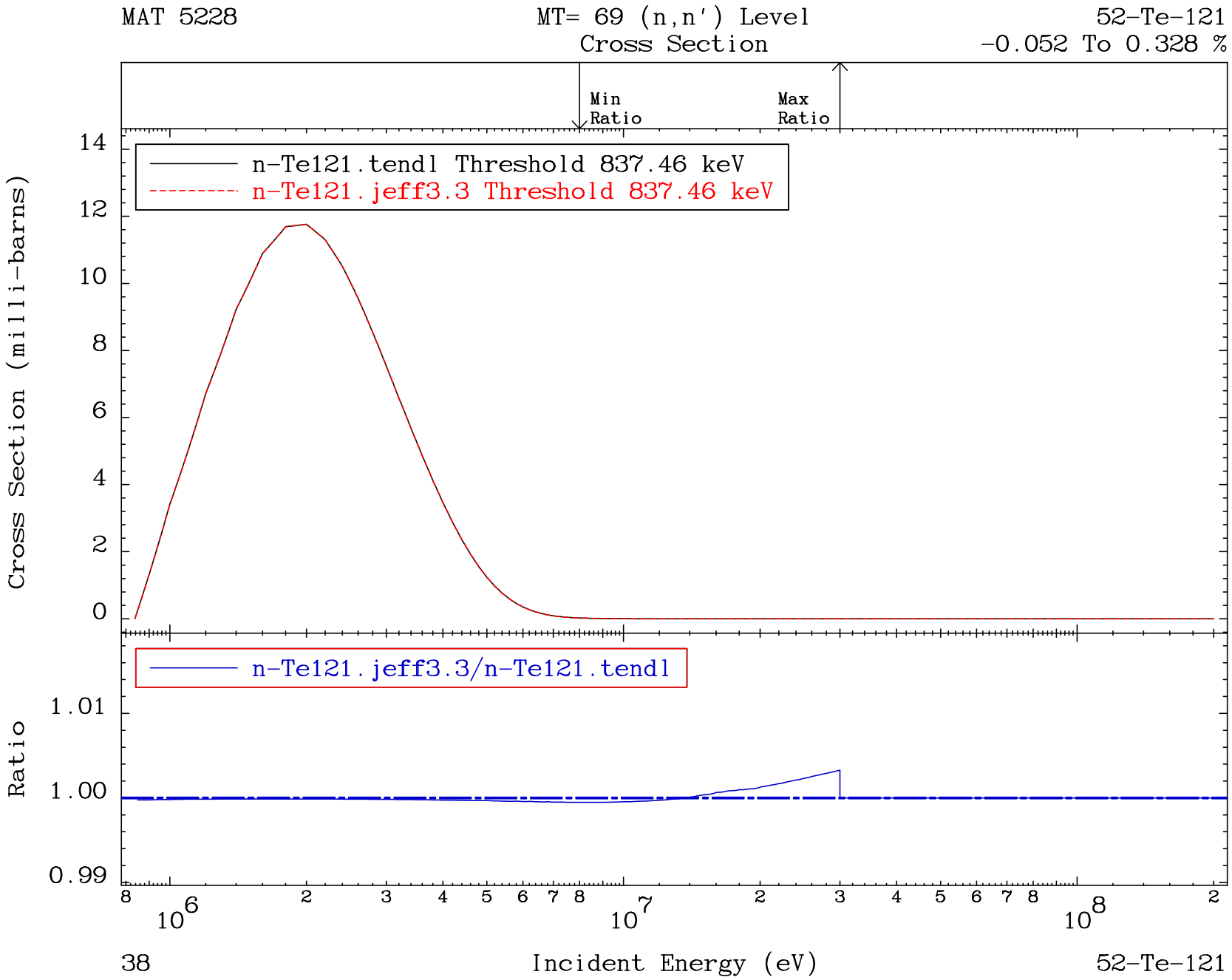

MAT 5228
MT= 64 (n,n') Level
Cross Section
52-Te-121
-0.053 To 0.328 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 762.41 keV
n-Te121.jeff3.3 Threshold 762.41 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
33
Incident Energy (eV)
52-Te-121

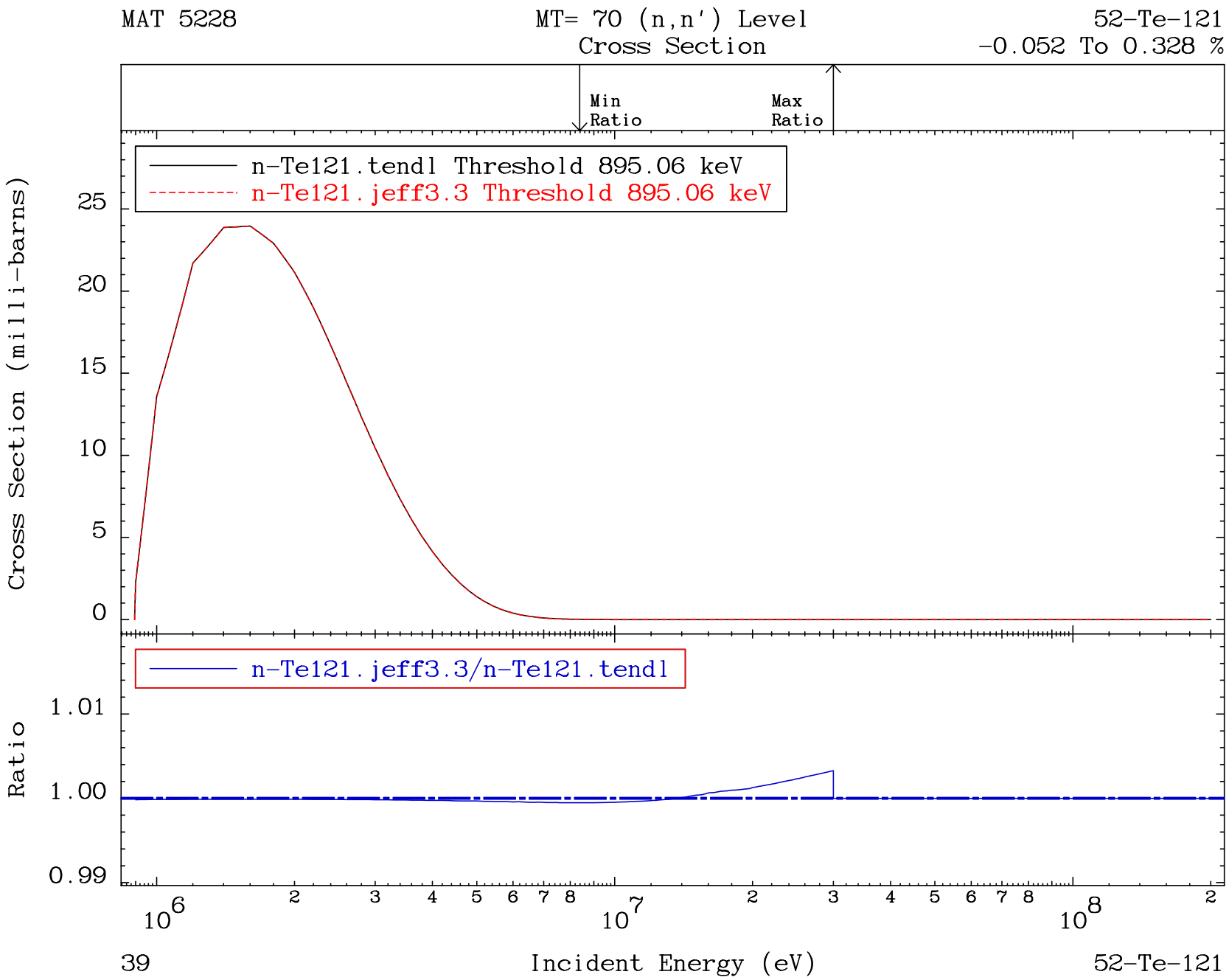

MAT 5228
MT= 65 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.328 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 764.27 keV
n-Te121.jeff3.3 Threshold 764.27 keV
Cross Section (milli-barns)
40
30
20
10
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
34
Incident Energy (eV)
52-Te-121

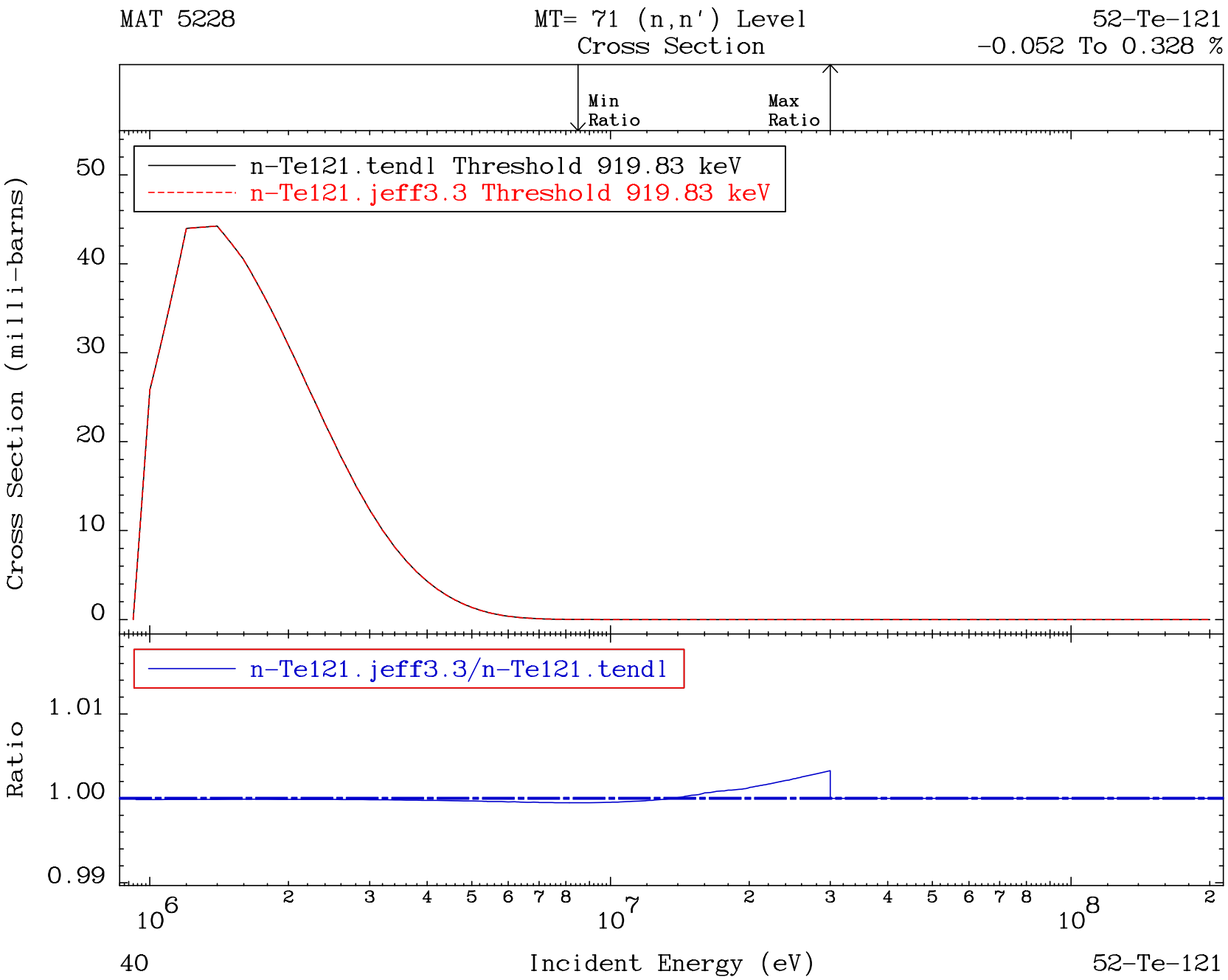

MAT 5228
MT= 66 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.328 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 813.42 keV
n-Te121.jeff3.3 Threshold 813.42 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2
10^6
10^7
10^8
35
Incident Energy (eV)
52-Te-121

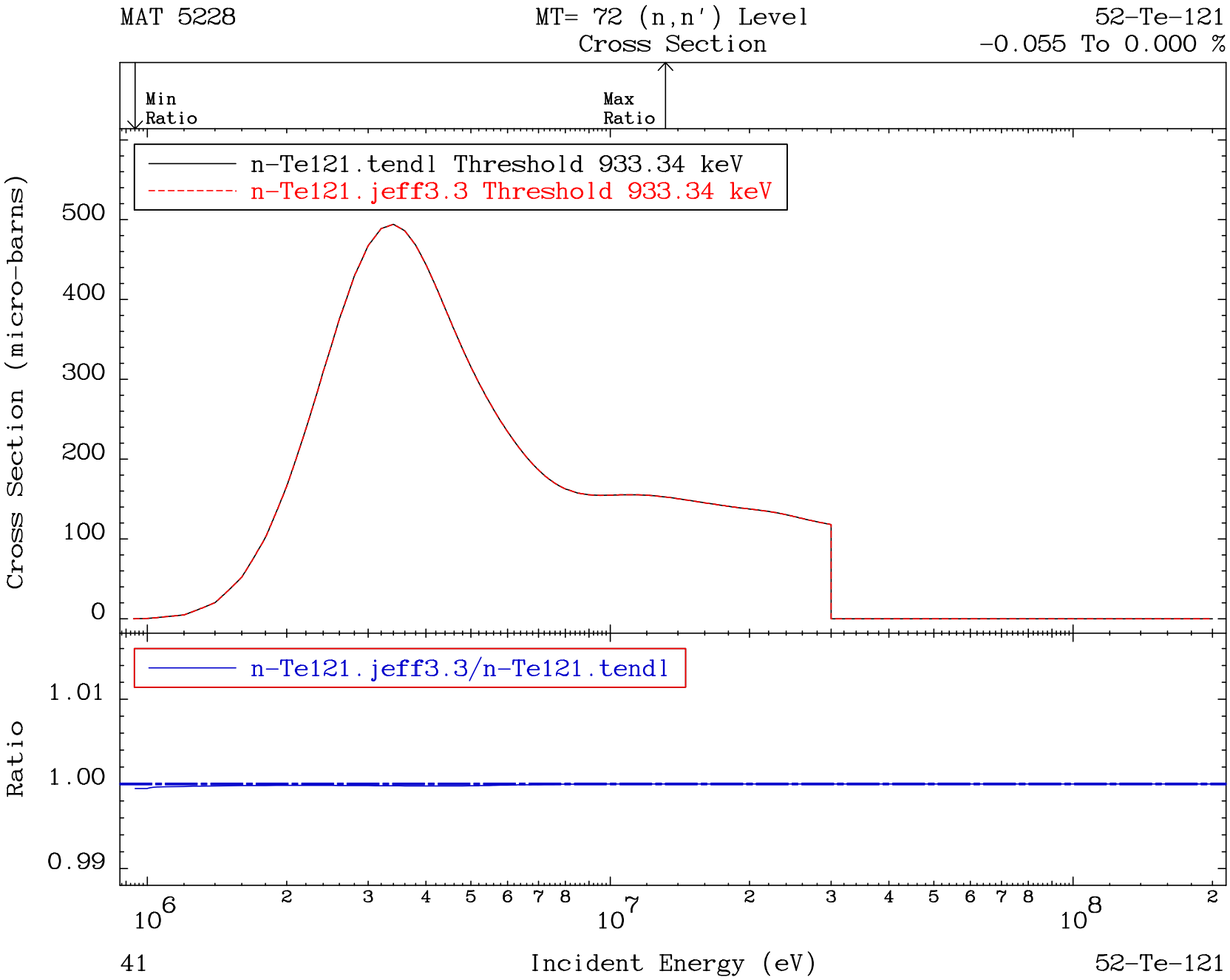

MAT 5228
MT= 67 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.328 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 817.69 keV
n-Te121.jeff3.3 Threshold 817.69 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
8
2
3
4
5
6
7
8
10^6
10^7
10^8
36
Incident Energy (eV)
52-Te-121

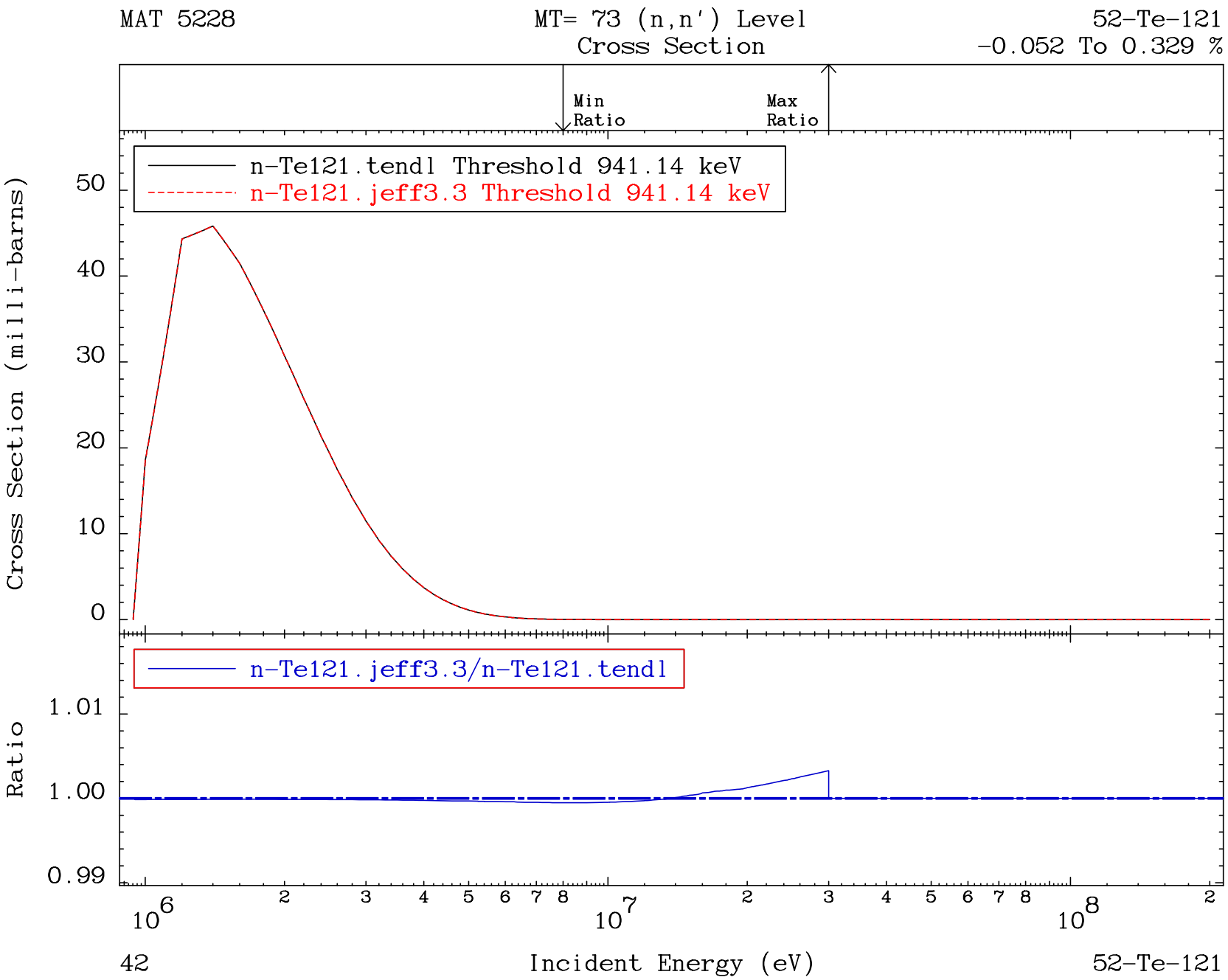

MAT 5228
MT= 68 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.328 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 833.90 keV
n-Te121.jeff3.3 Threshold 833.90 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2
10^6
10^7
10^8
37
Incident Energy (eV)
52-Te-121

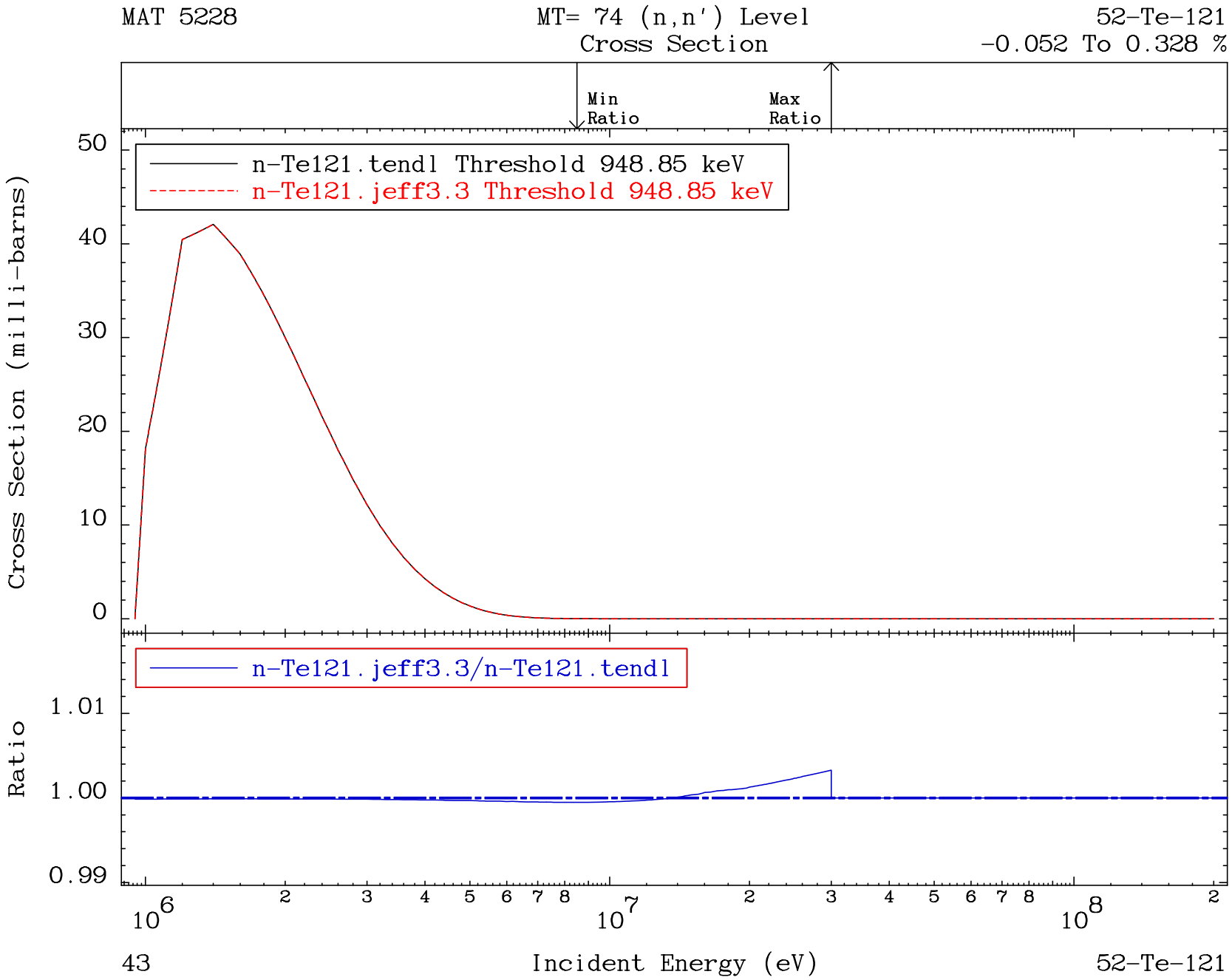

MAT 5228
MT= 69 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.328 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 837.46 keV
n-Te121.jeff3.3 Threshold 837.46 keV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2
10^6
10^7
10^8
38
Incident Energy (eV)
52-Te-121

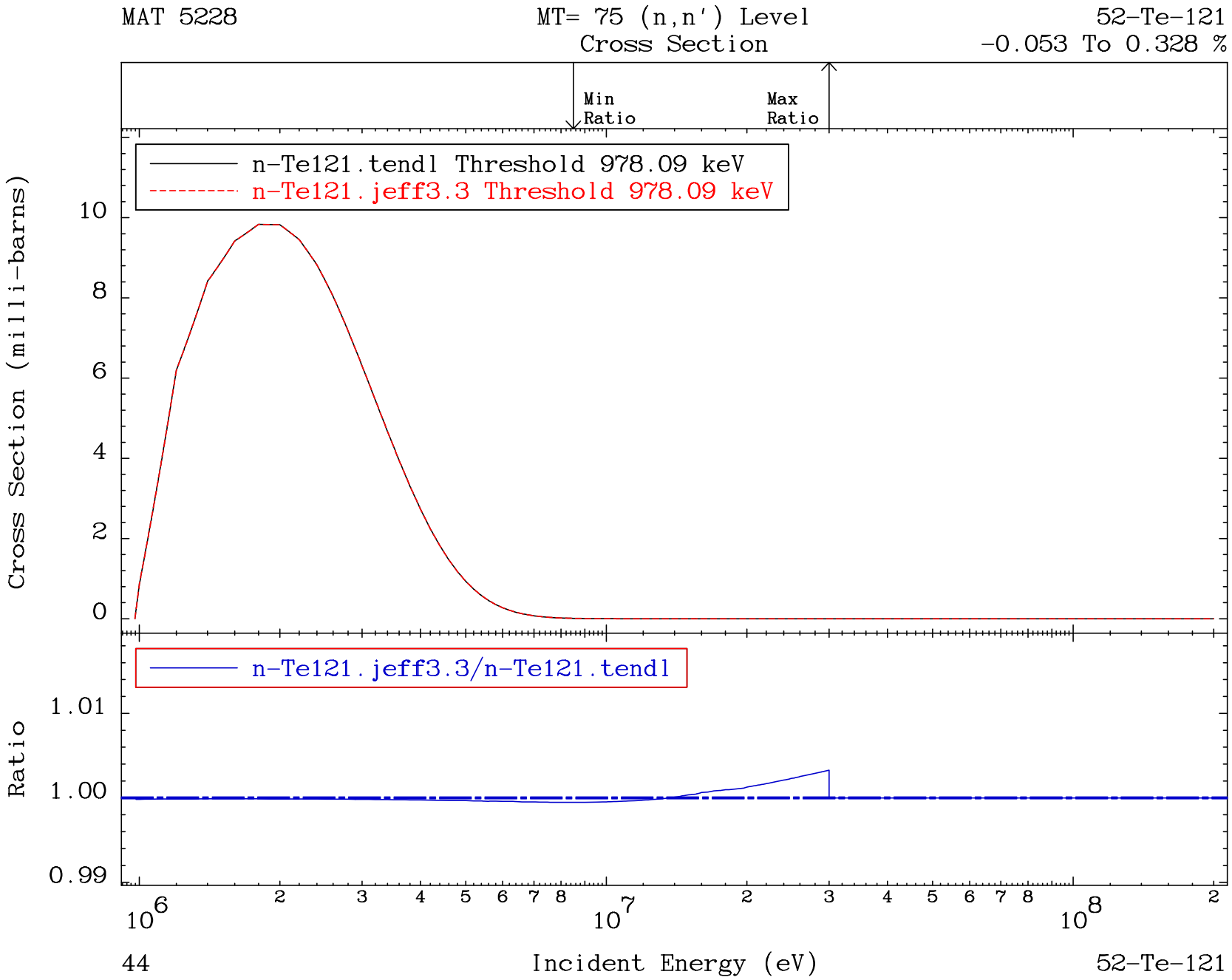

MAT 5228
MT= 70 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.328 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 895.06 keV
n-Te121.jeff3.3 Threshold 895.06 keV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
10^6
10^7
10^8
39
Incident Energy (eV)
52-Te-121

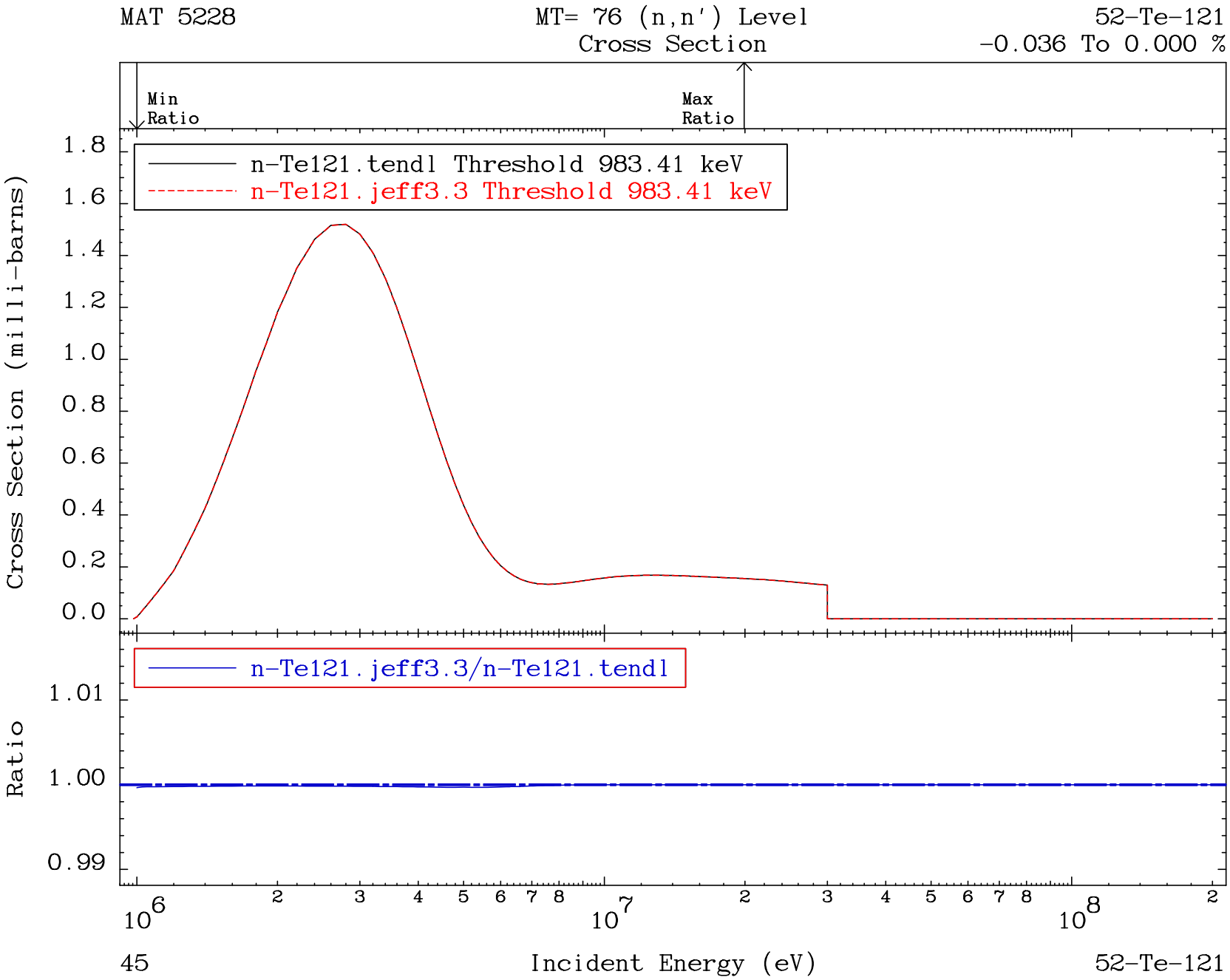

MAT 5228
MT= 71 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.328 %
Min
Ratio
Max
Ratio
n-Te121.tendl Threshold 919.83 keV
n-Te121.jeff3.3 Threshold 919.83 keV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
40
Incident Energy (eV)
52-Te-121

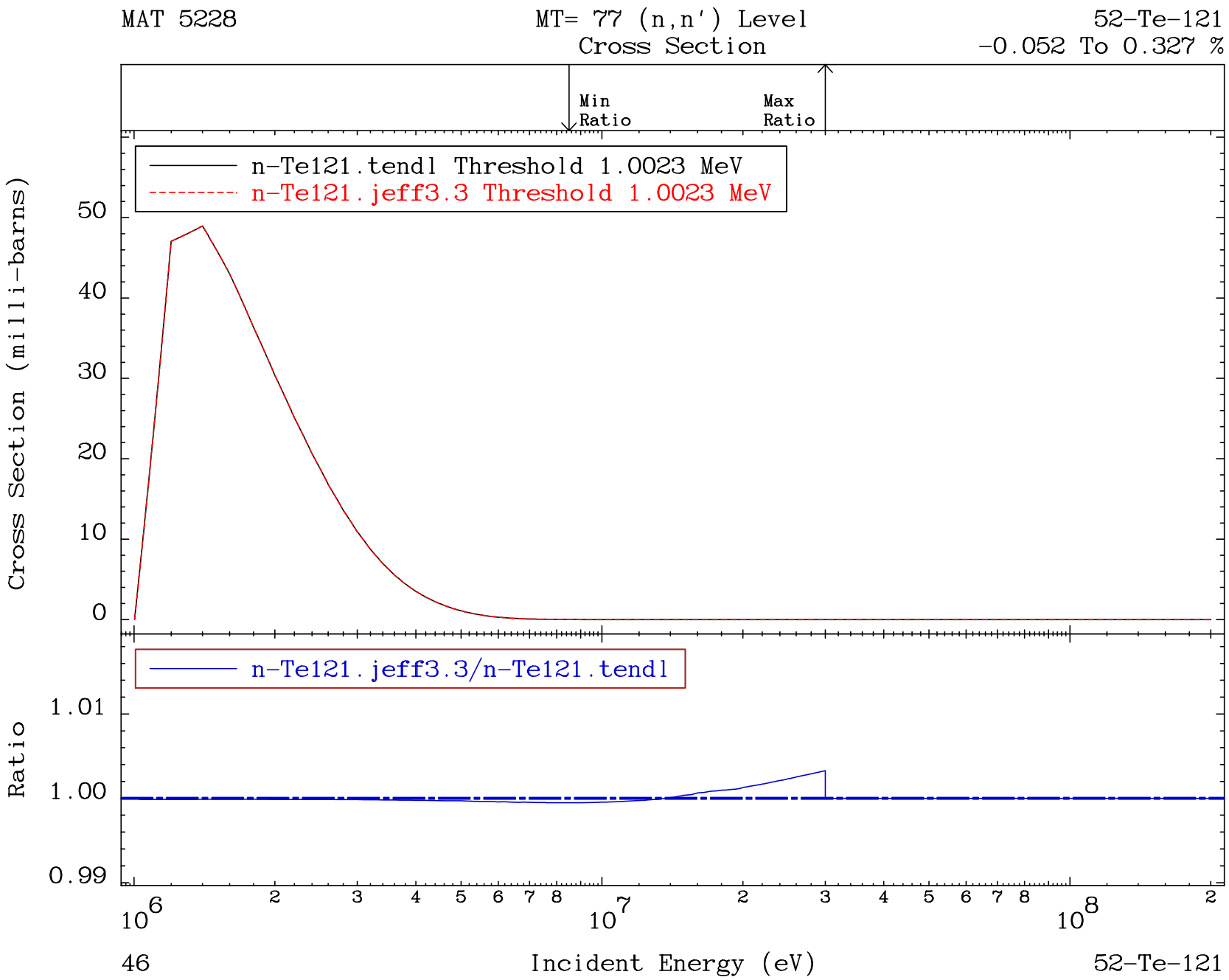

MAT 5228
MT= 72 (n,n') Level
Cross Section
52-Te-121
-0.055 To 0.000 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 933.34 keV
n-Te121.jeff3.3 Threshold 933.34 keV
Cross Section (micro-barns)
500
400
300
200
100
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
41
Incident Energy (eV)
52-Te-121

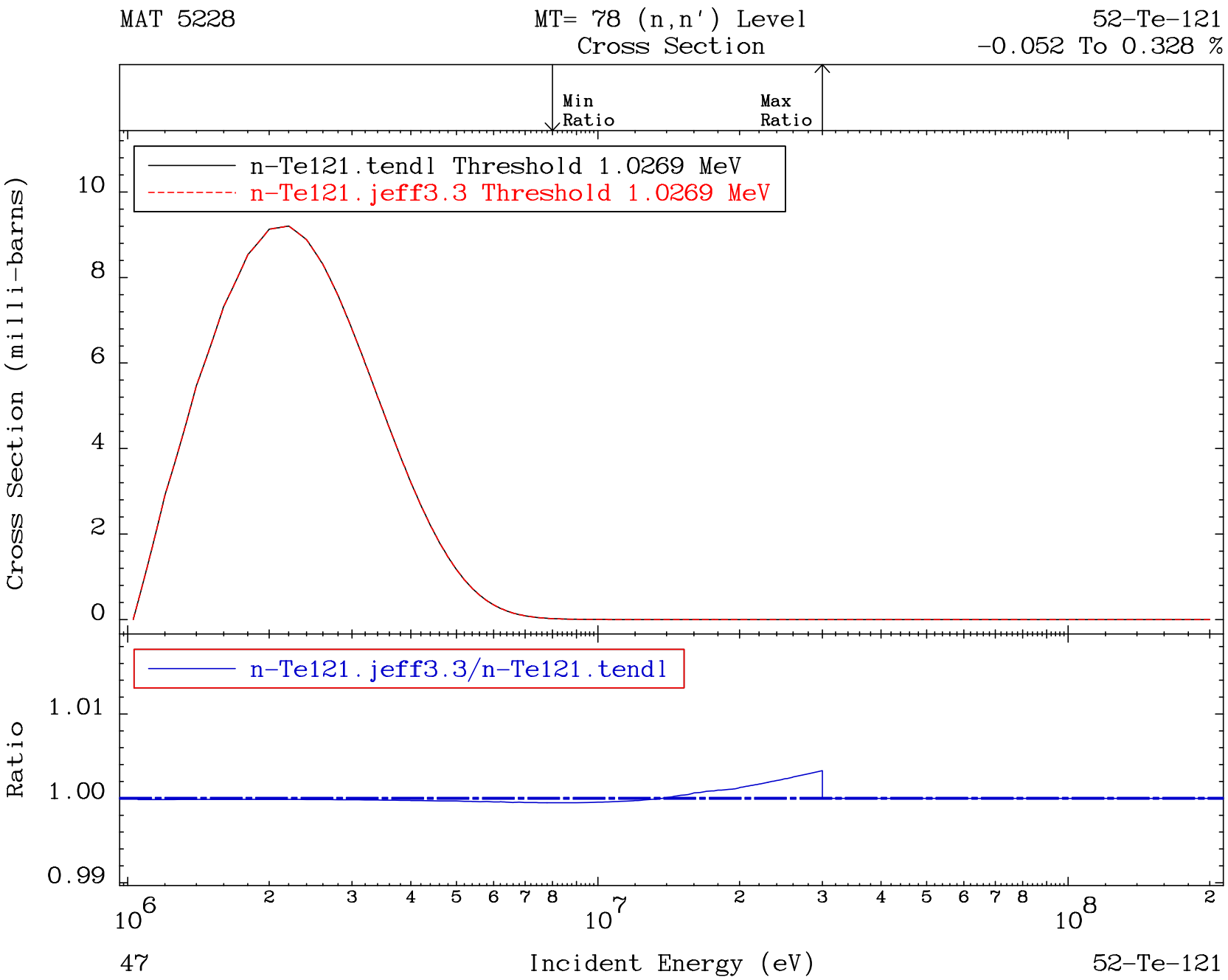

MAT 5228
MT= 73 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.329 %
Min
Ratio
Max
Ratio
n-Te121.tendl Threshold 941.14 keV
n-Te121.jeff3.3 Threshold 941.14 keV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
42
Incident Energy (eV)
52-Te-121

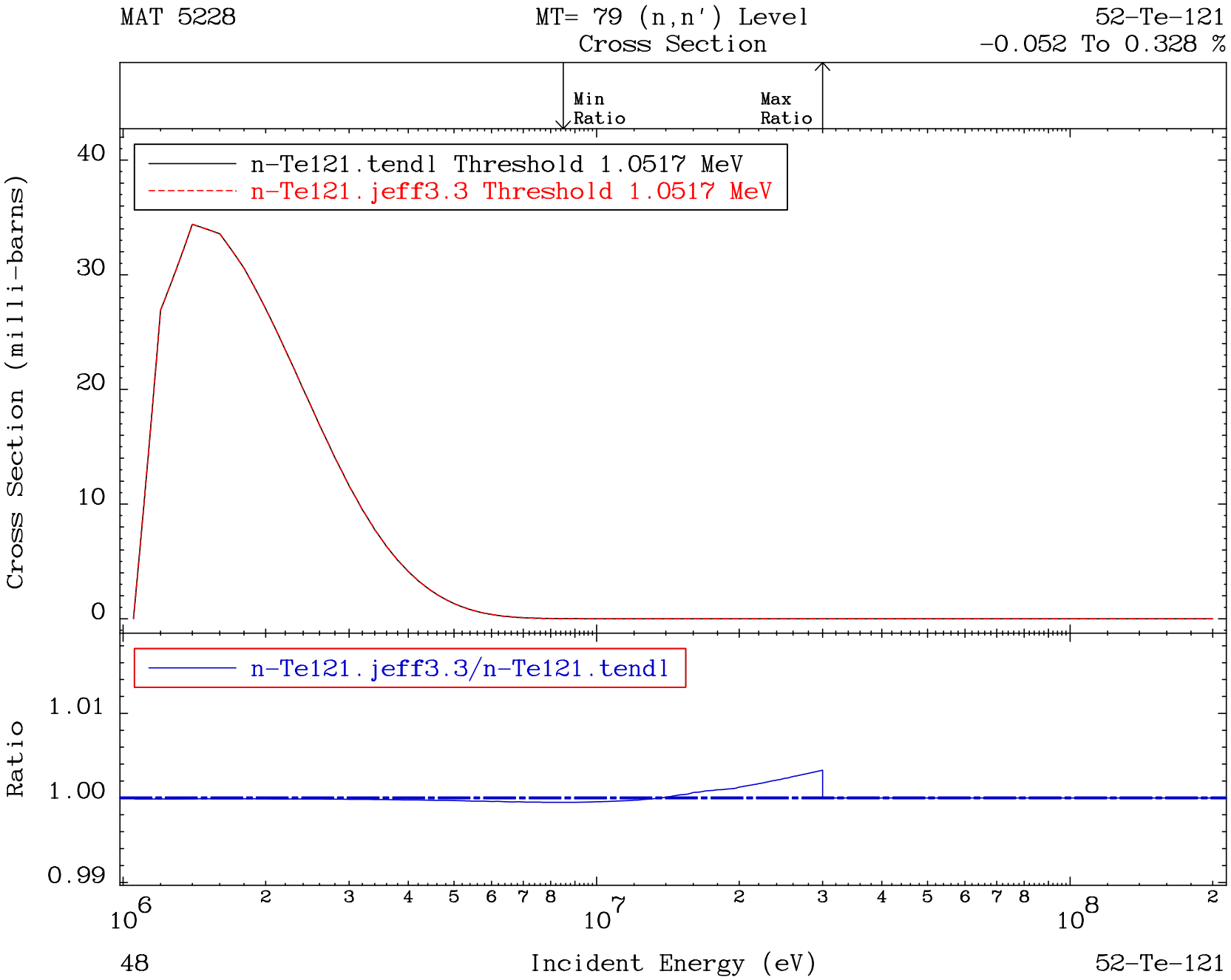

MAT 5228
MT= 74 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.328 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 948.85 keV
n-Te121.jeff3.3 Threshold 948.85 keV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
10^6
10^7
10^8
43
Incident Energy (eV)
52-Te-121

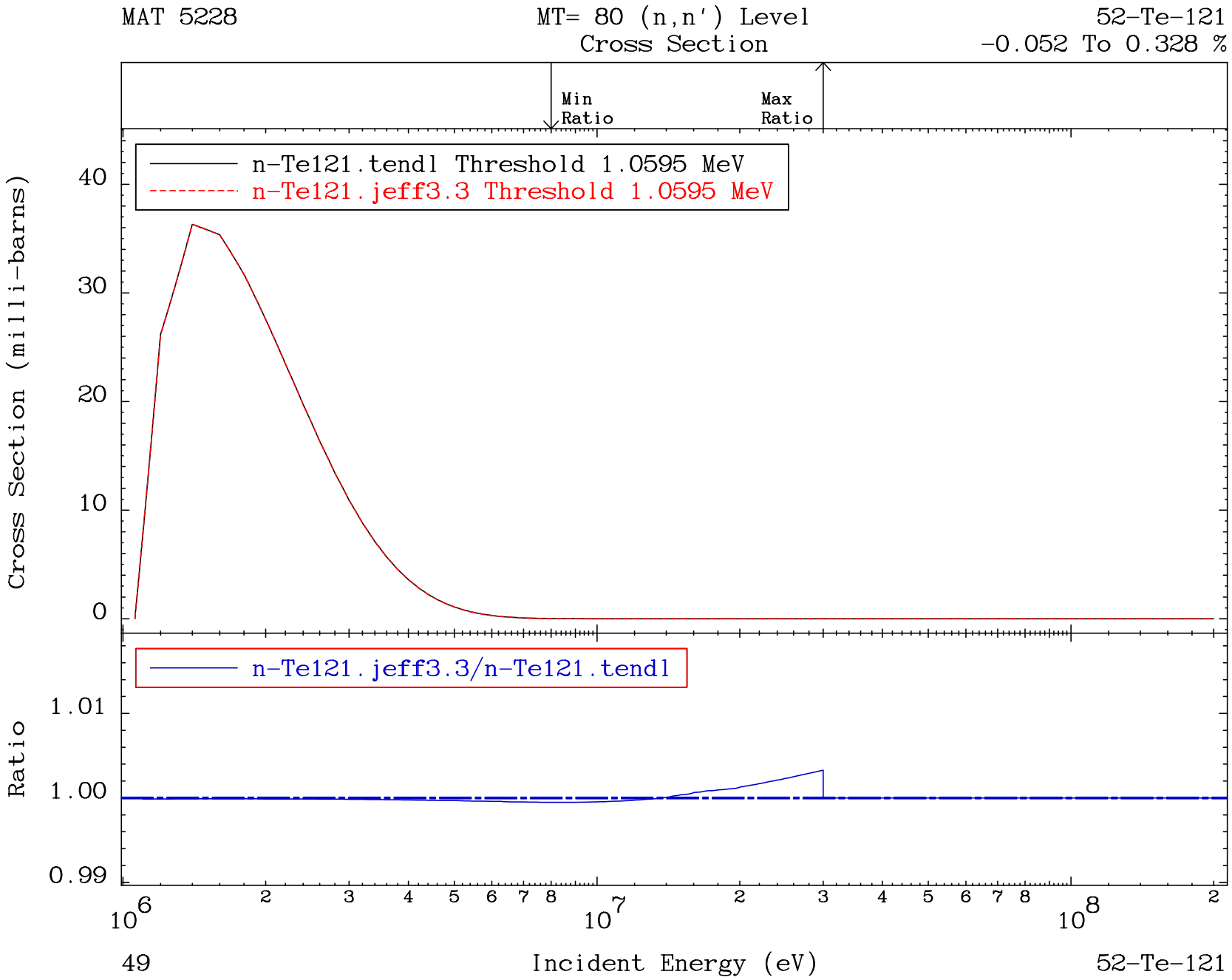

MAT 5228
MT= 75 (n,n') Level
Cross Section
52-Te-121
-0.053 To 0.328 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 978.09 keV
n-Te121.jeff3.3 Threshold 978.09 keV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
44
Incident Energy (eV)
52-Te-121

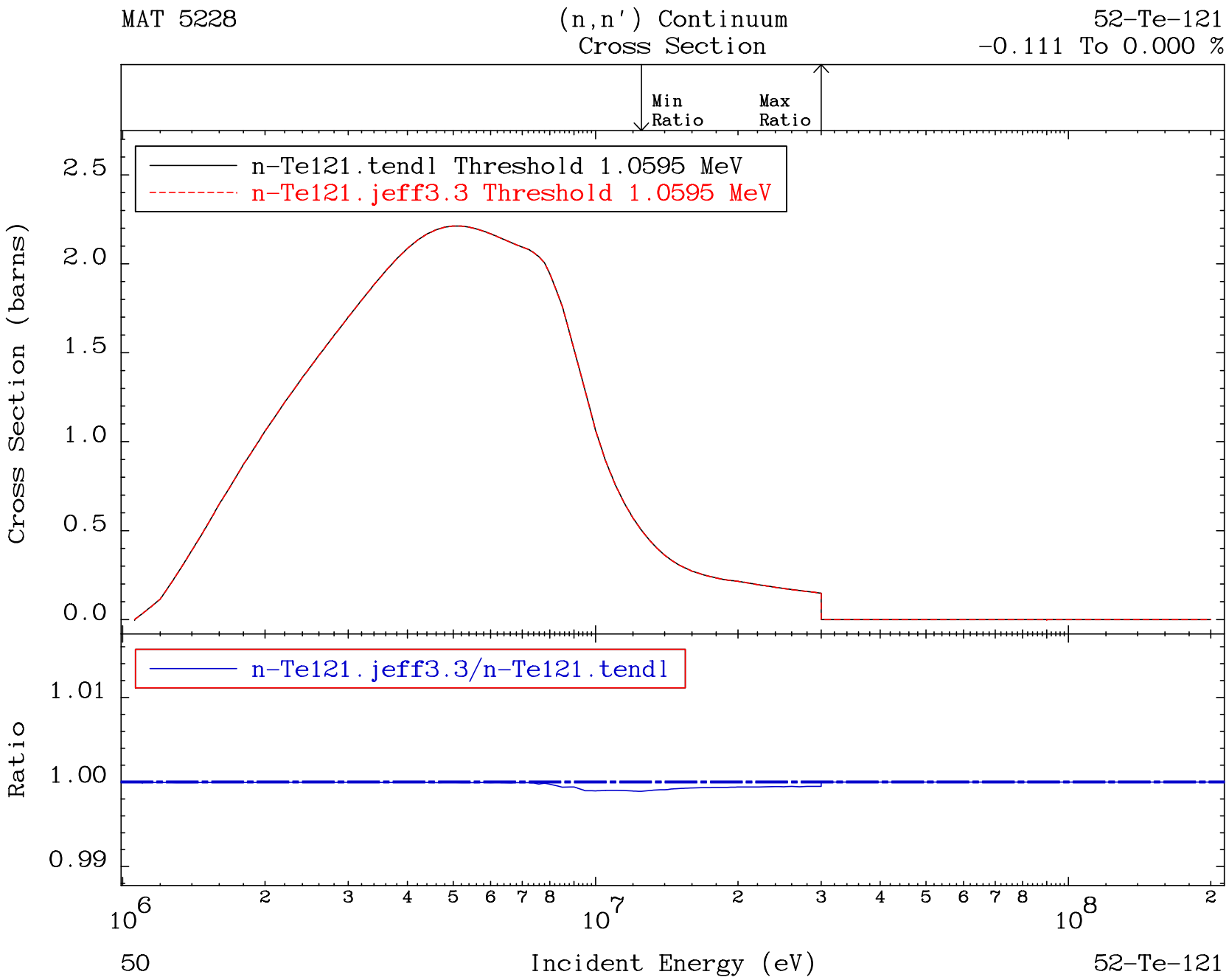

MAT 5228
MT= 76 (n,n') Level
Cross Section
52-Te-121
-0.036 To 0.000 %
Min
Ratio
Max
Ratio
n-Te121.tendl Threshold 983.41 keV
n-Te121.jeff3.3 Threshold 983.41 keV
Cross Section (milli-barns)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
45
Incident Energy (eV)
52-Te-121

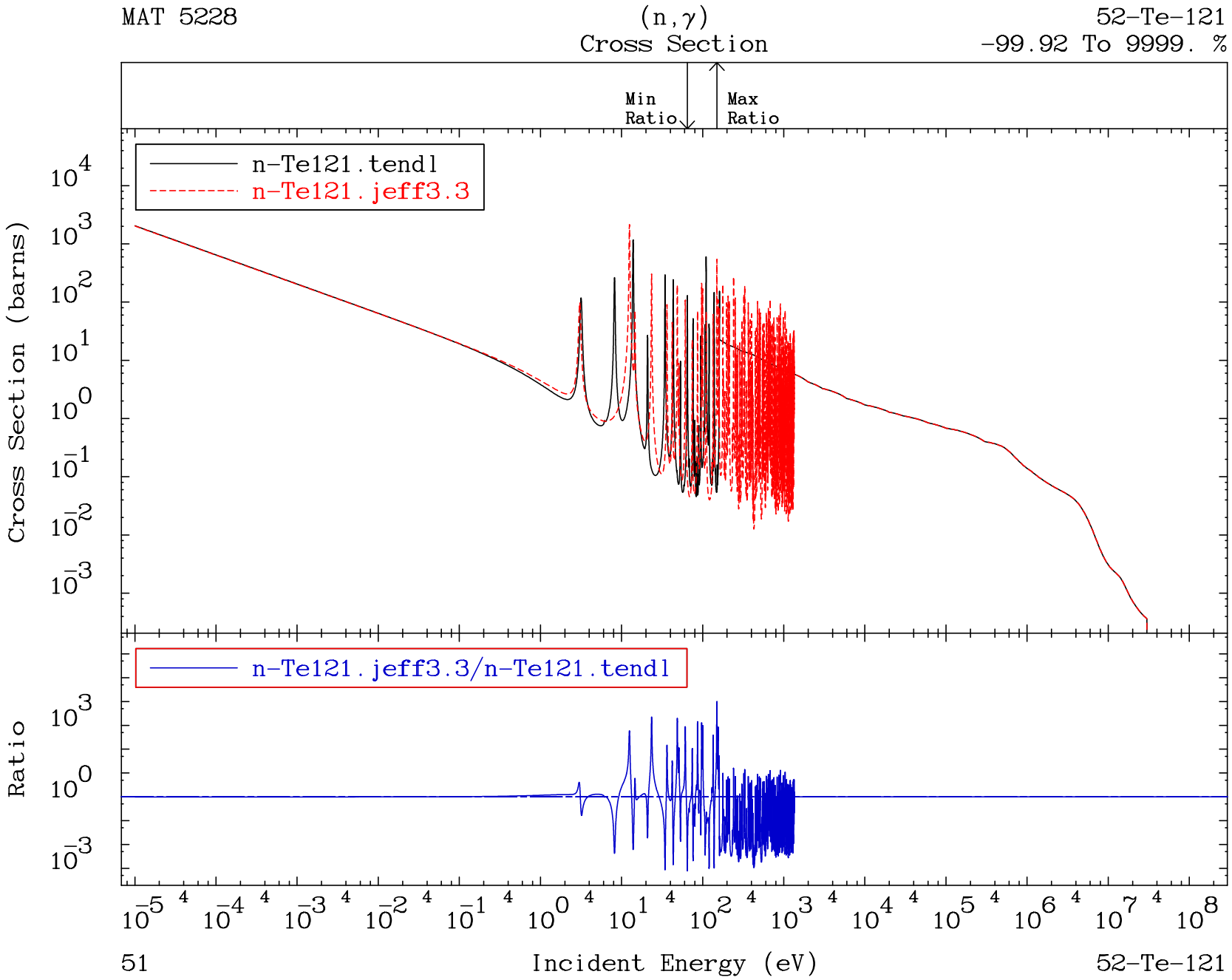

MAT 5228
MT= 77 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.327 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 1.0023 MeV
n-Te121.jeff3.3 Threshold 1.0023 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
10^6
10^7
10^8
46
Incident Energy (eV)
52-Te-121

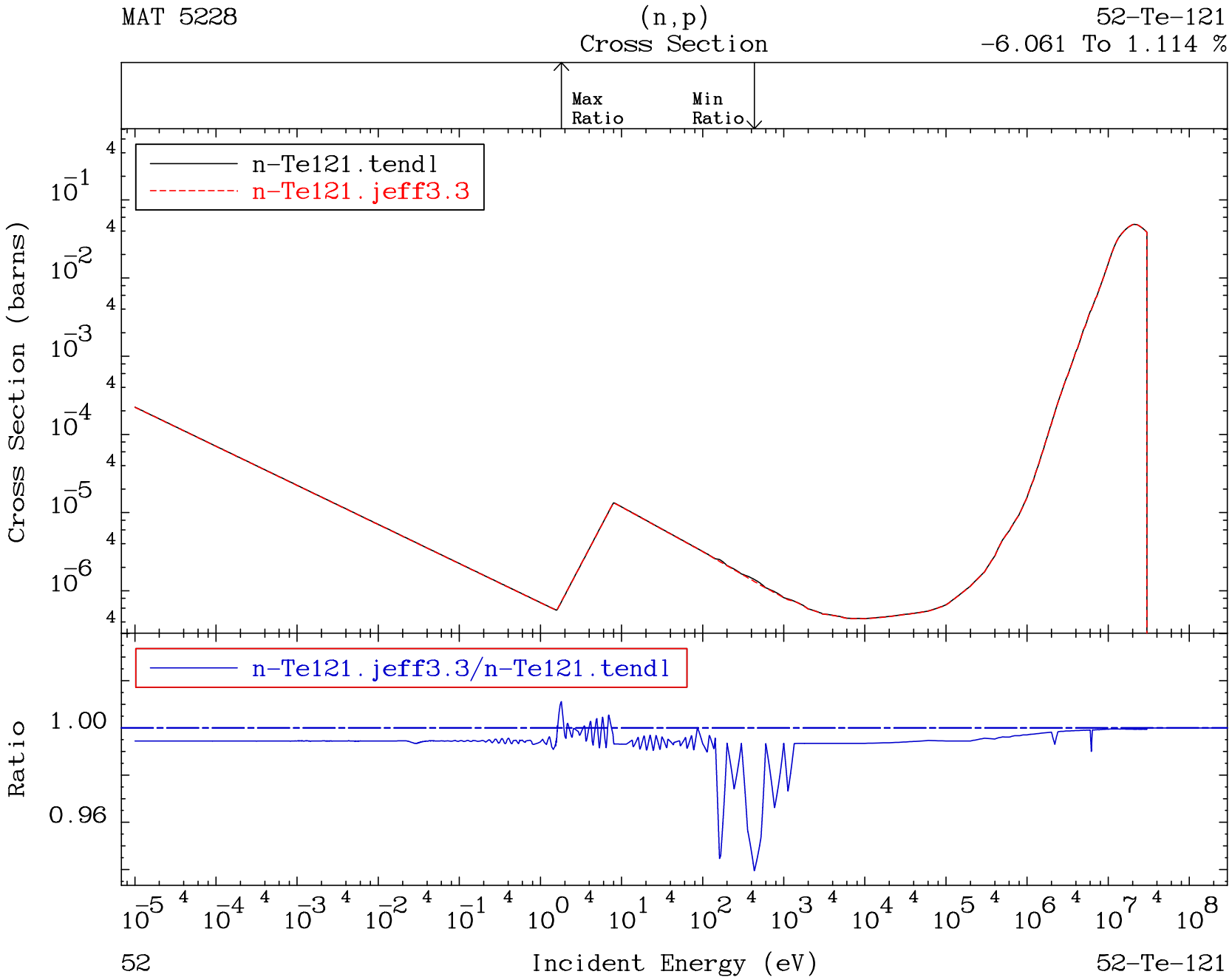

MAT 5228
MT= 78 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.328 %
Min
Ratio
Max
Ratio
n-Te121.tendl Threshold 1.0269 MeV
n-Te121.jeff3.3 Threshold 1.0269 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
47
Incident Energy (eV)
52-Te-121

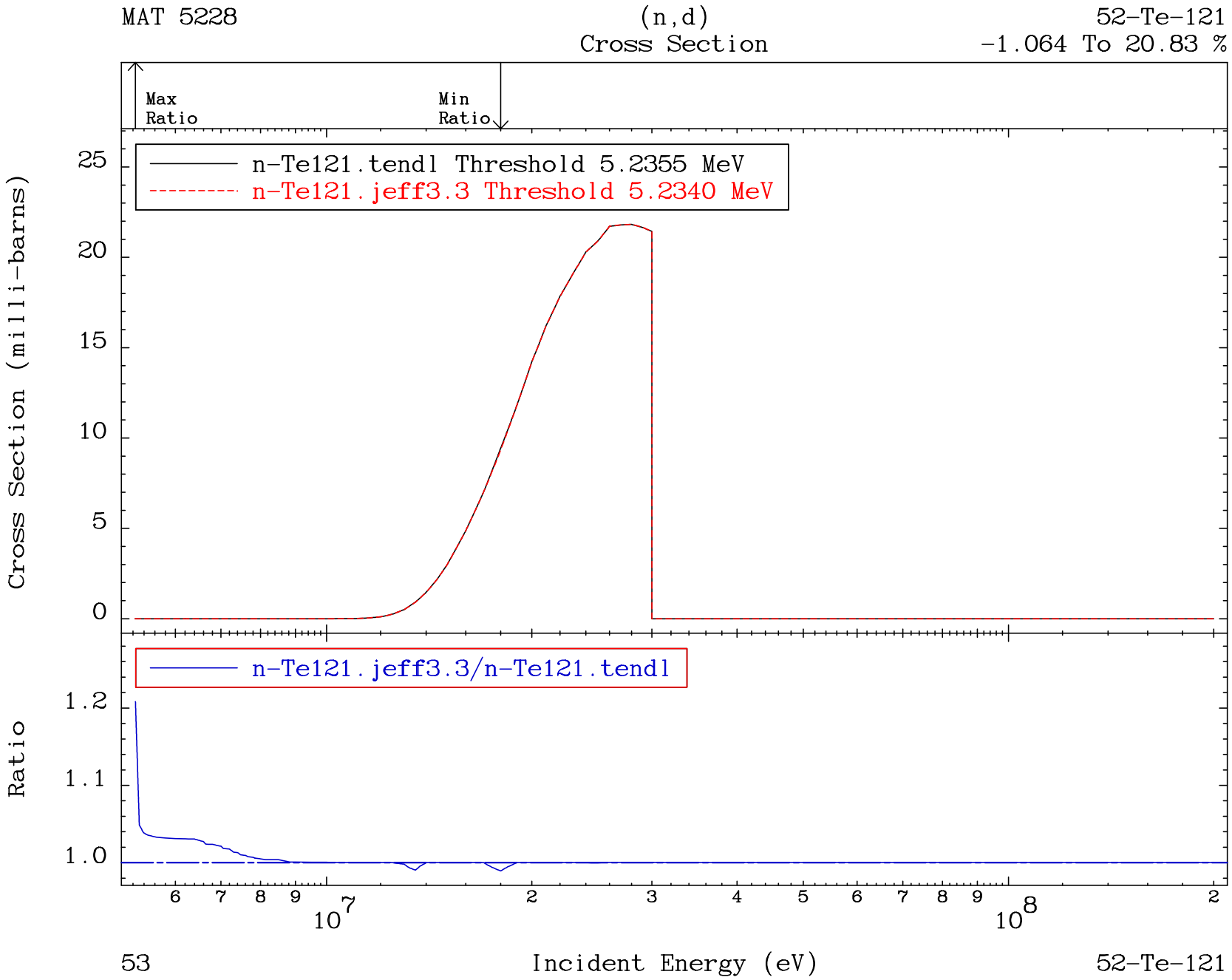

MAT 5228
MT= 79 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.328 %
Min
Ratio
Max
Ratio
n-Te121.tendl Threshold 1.0517 MeV
n-Te121.jeff3.3 Threshold 1.0517 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
48
Incident Energy (eV)
52-Te-121

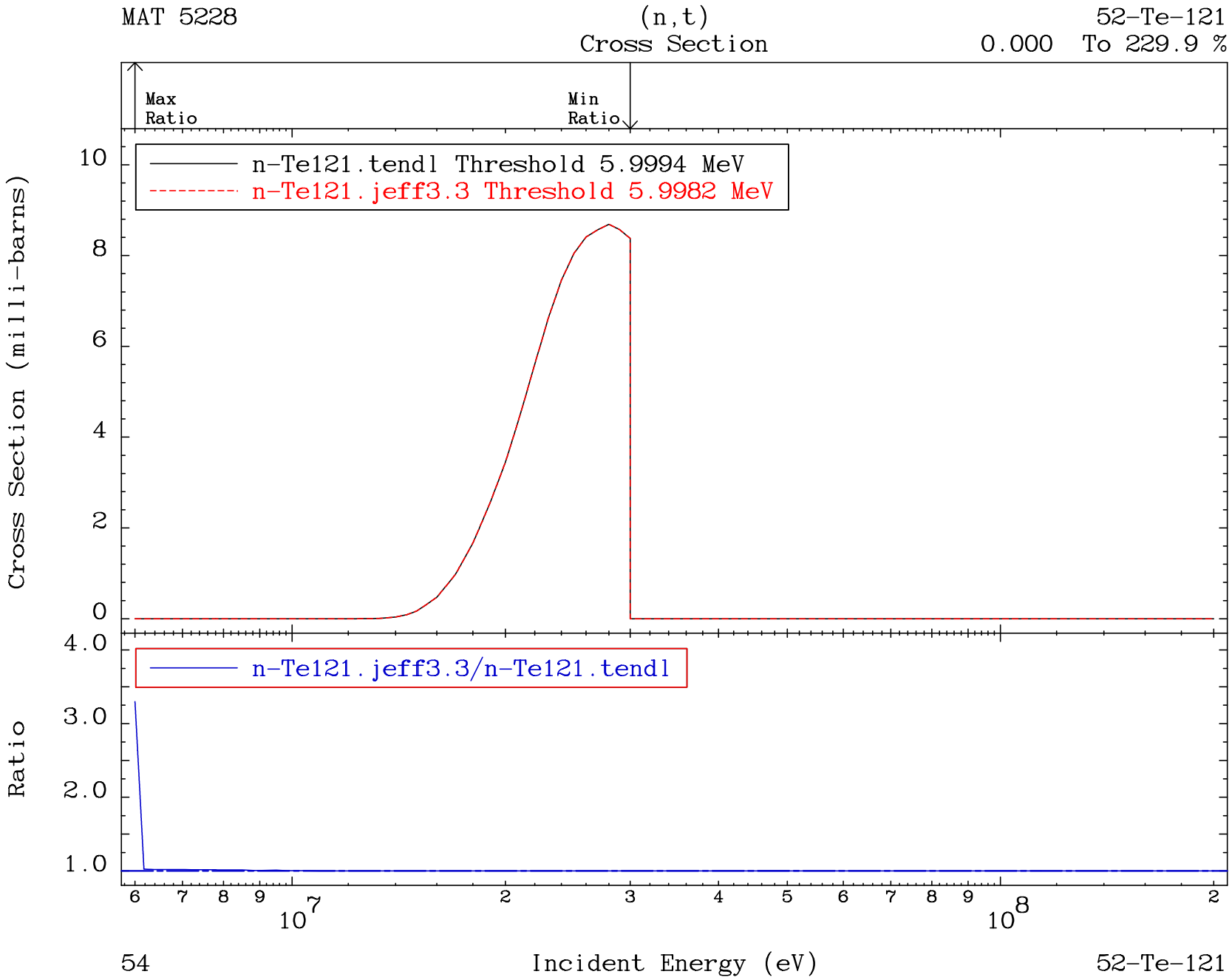

MAT 5228
MT= 80 (n,n') Level
Cross Section
52-Te-121
-0.052 To 0.328 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 1.0595 MeV
n-Te121.jeff3.3 Threshold 1.0595 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
10^6
10^7
10^8
Incident Energy (eV)
49
52-Te-121

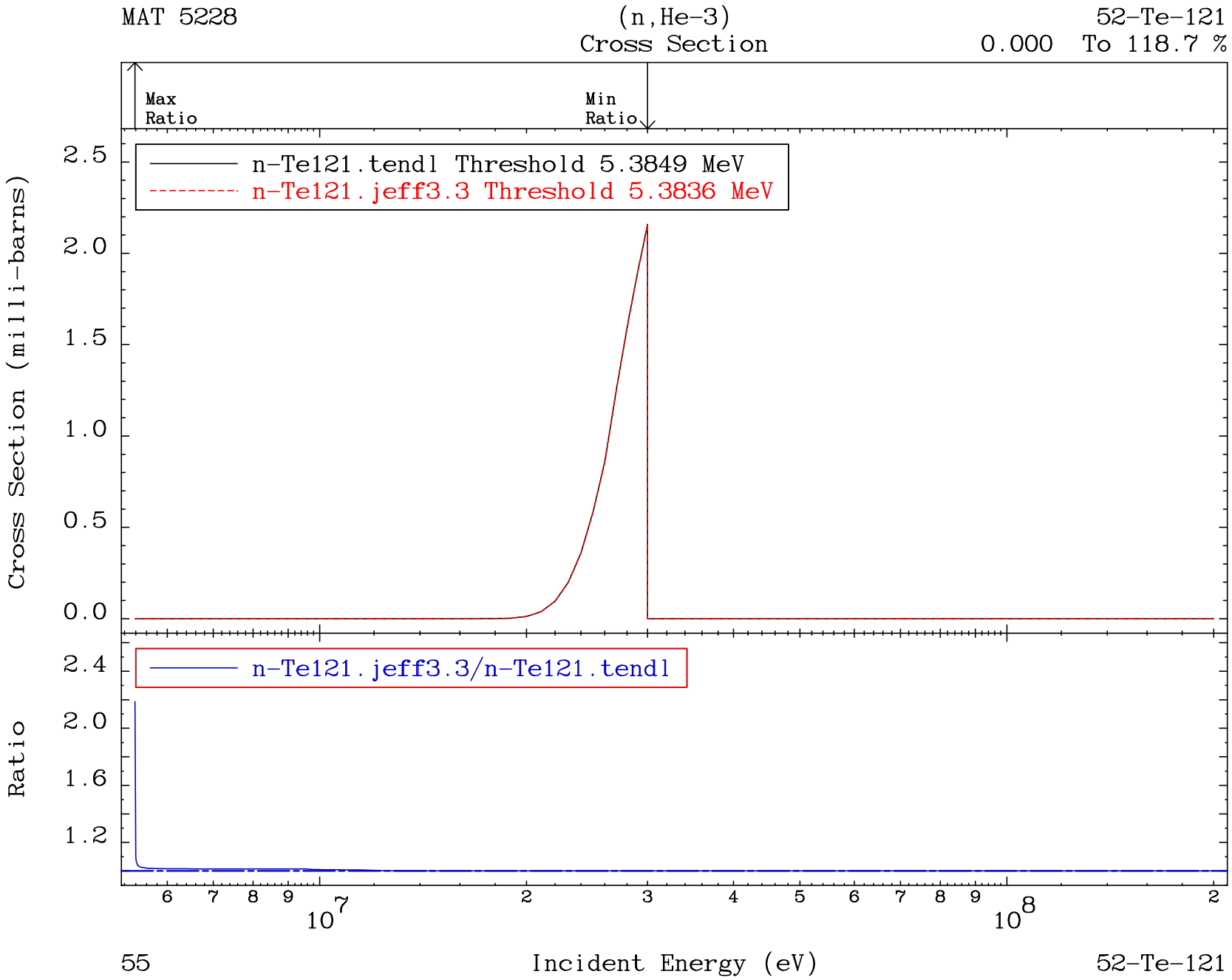

MAT 5228
(n,n') Continuum
Cross Section
52-Te-121
-0.111 To 0.000 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 1.0595 MeV
n-Te121.jeff3.3 Threshold 1.0595 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
10^6
10^7
10^8
Incident Energy (eV)
50
52-Te-121

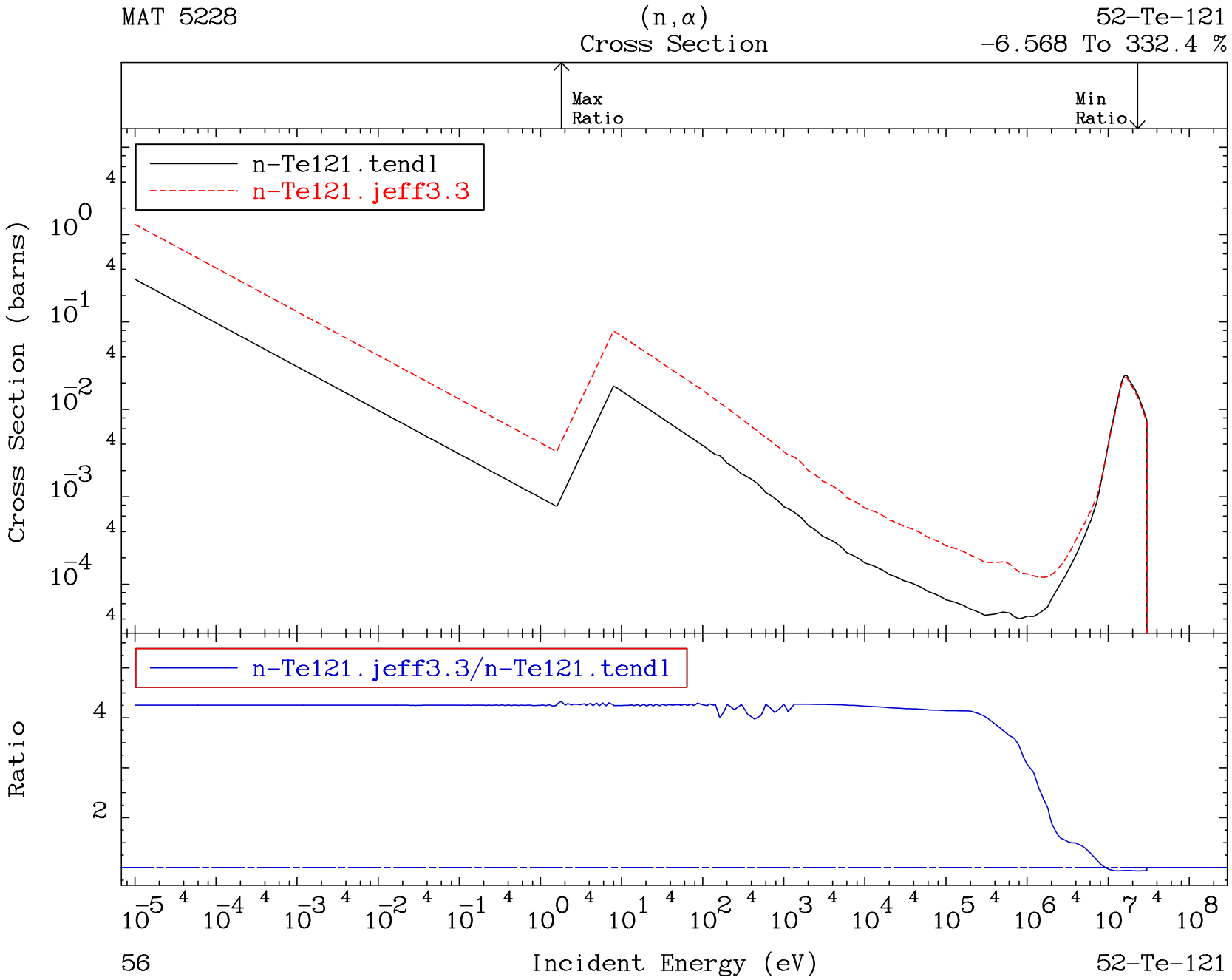

MAT 5228
(n,γ)
Cross Section
52-Te-121
-99.92 To 9999. %
Min Ratio
Max Ratio
n-Te121.tendl
n-Te121.jeff3.3
Cross Section (barns)
n-Te121.jeff3.3/n-Te121.tendl
Ratio
Incident Energy (eV)
51
52-Te-121

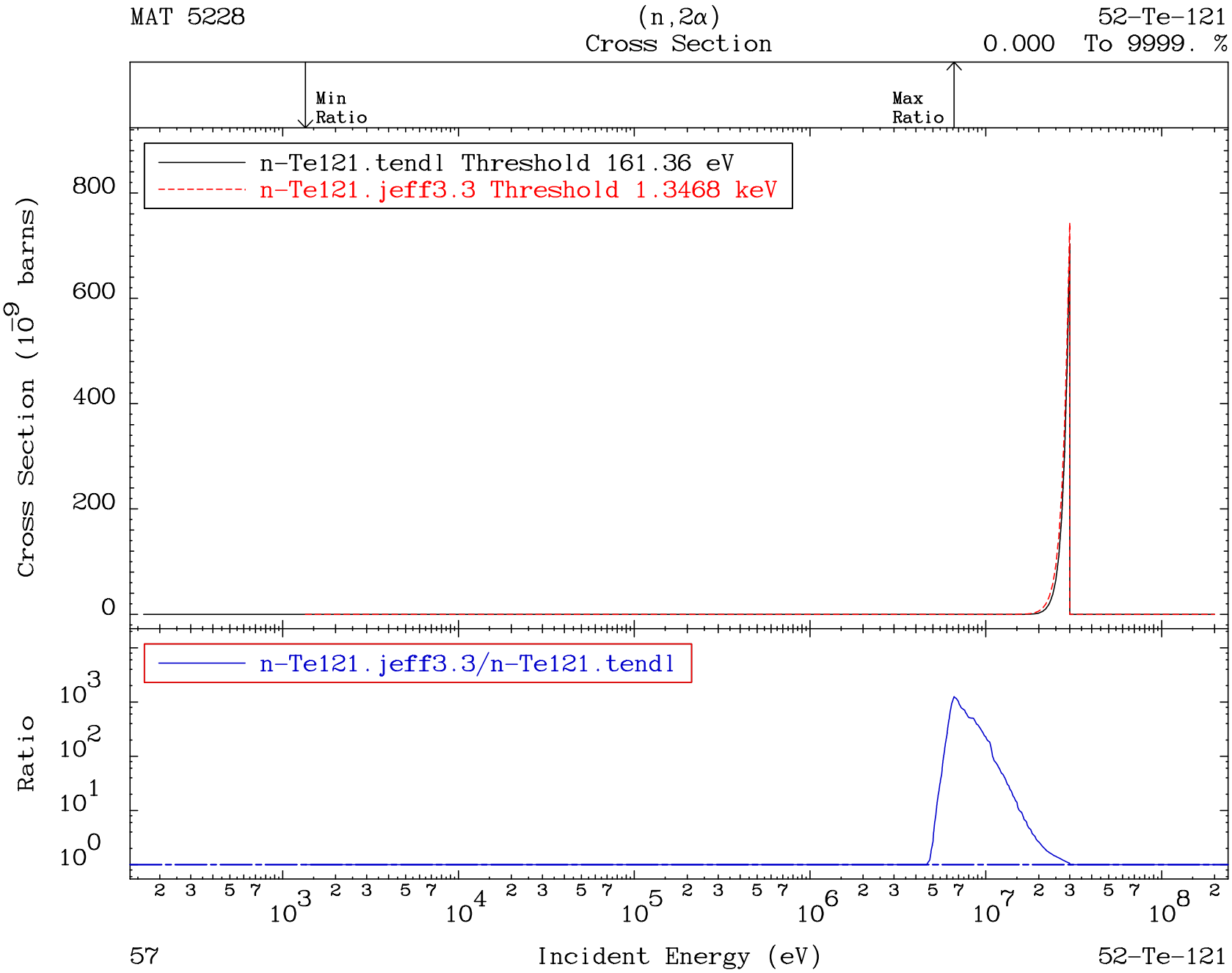

MAT 5228
(n,p)
Cross Section
52-Te-121
-6.061 To 1.114 %
Max Ratio
Min Ratio
n-Te121.tendl
n-Te121.jeff3.3
Cross Section (barns)
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.00
0.96
Incident Energy (eV)
52
52-Te-121

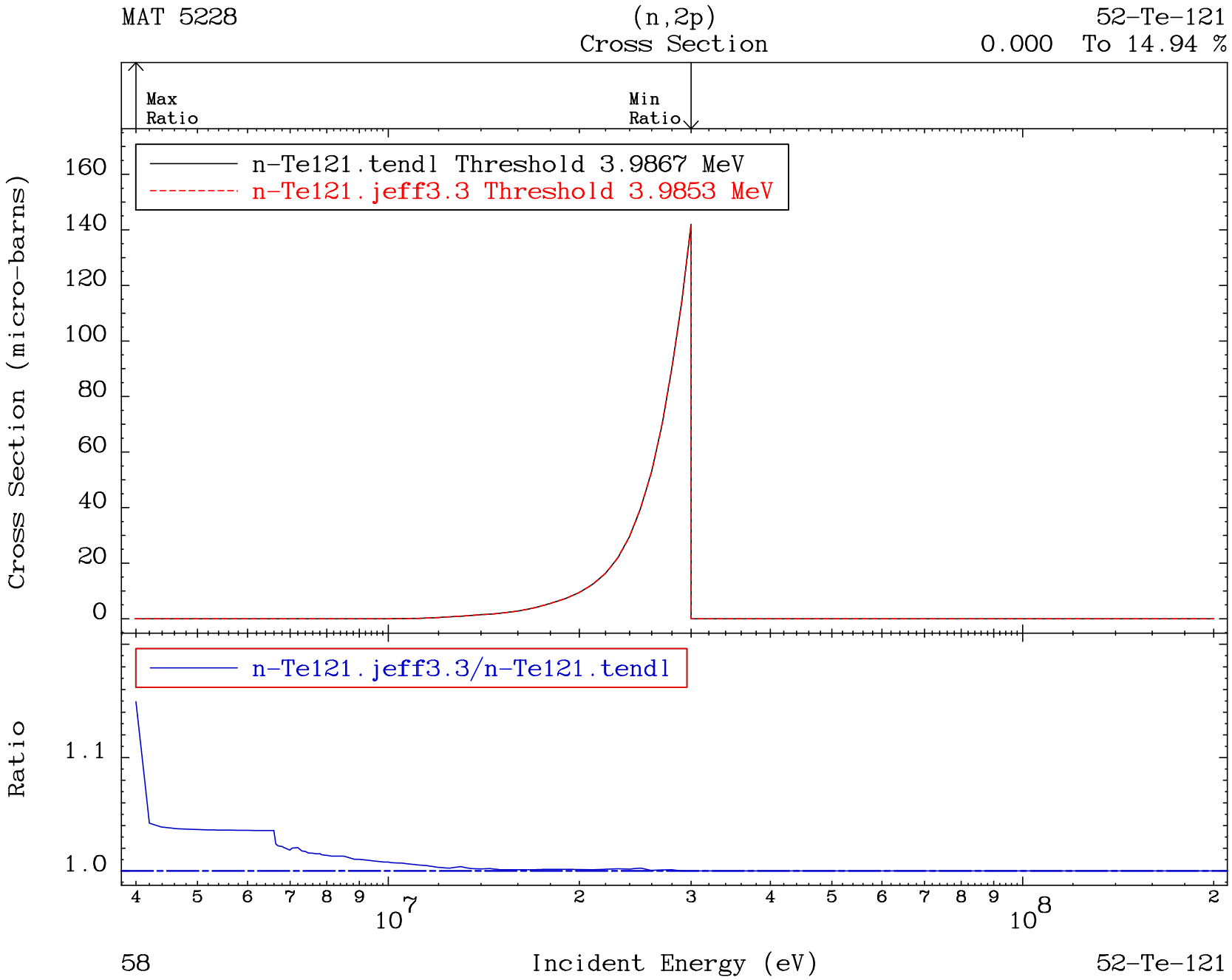

MAT 5228
(n,d)
Cross Section
52-Te-121
-1.064 To 20.83 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 5.2355 MeV
n-Te121.jeff3.3 Threshold 5.2340 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.2
1.1
1.0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
53
Incident Energy (eV)
52-Te-121

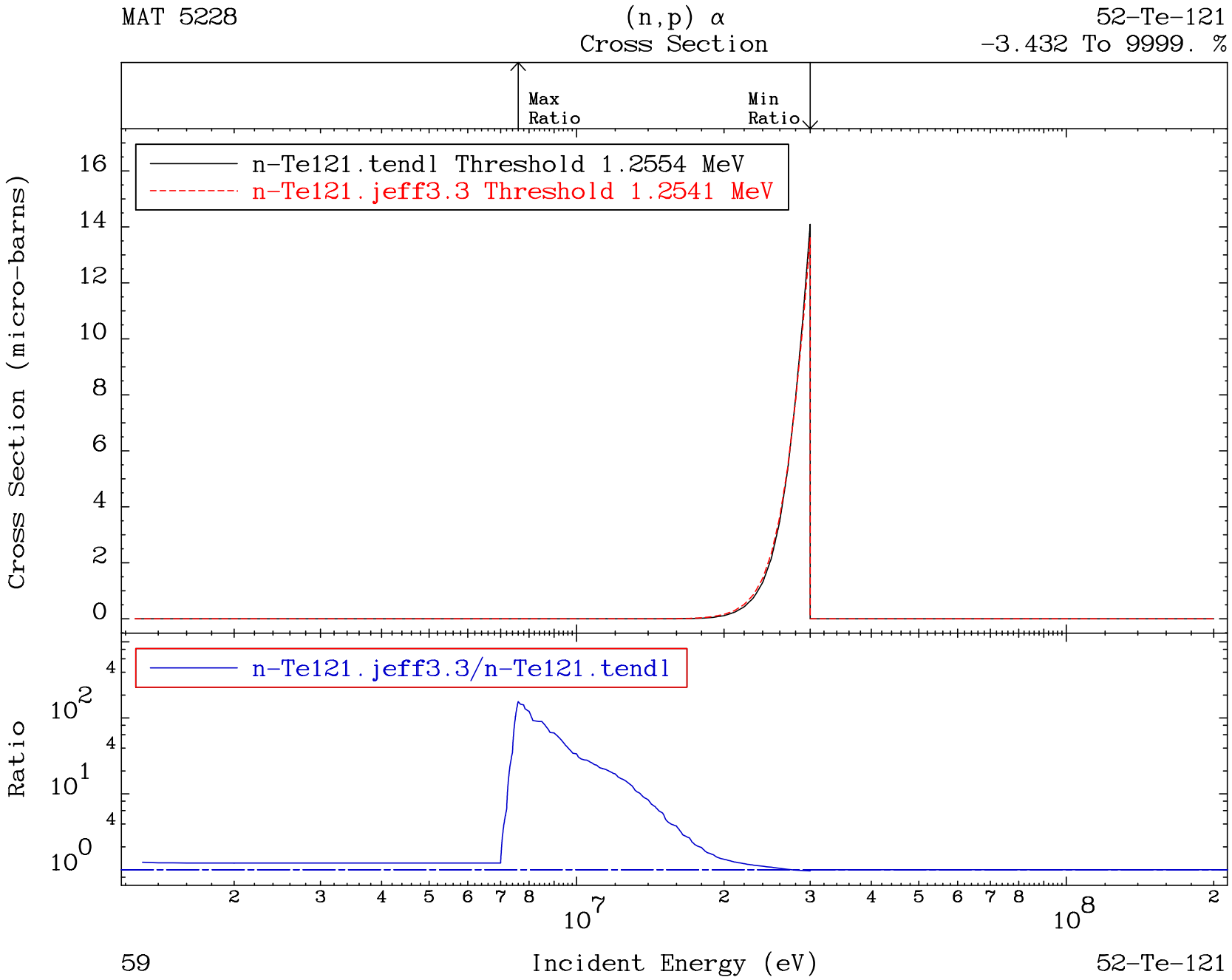

MAT 5228
(n,t)
Cross Section
52-Te-121
0.000 To 229.9 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 5.9994 MeV
n-Te121.jeff3.3 Threshold 5.9982 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
4.0
3.0
2.0
1.0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
54
Incident Energy (eV)
52-Te-121

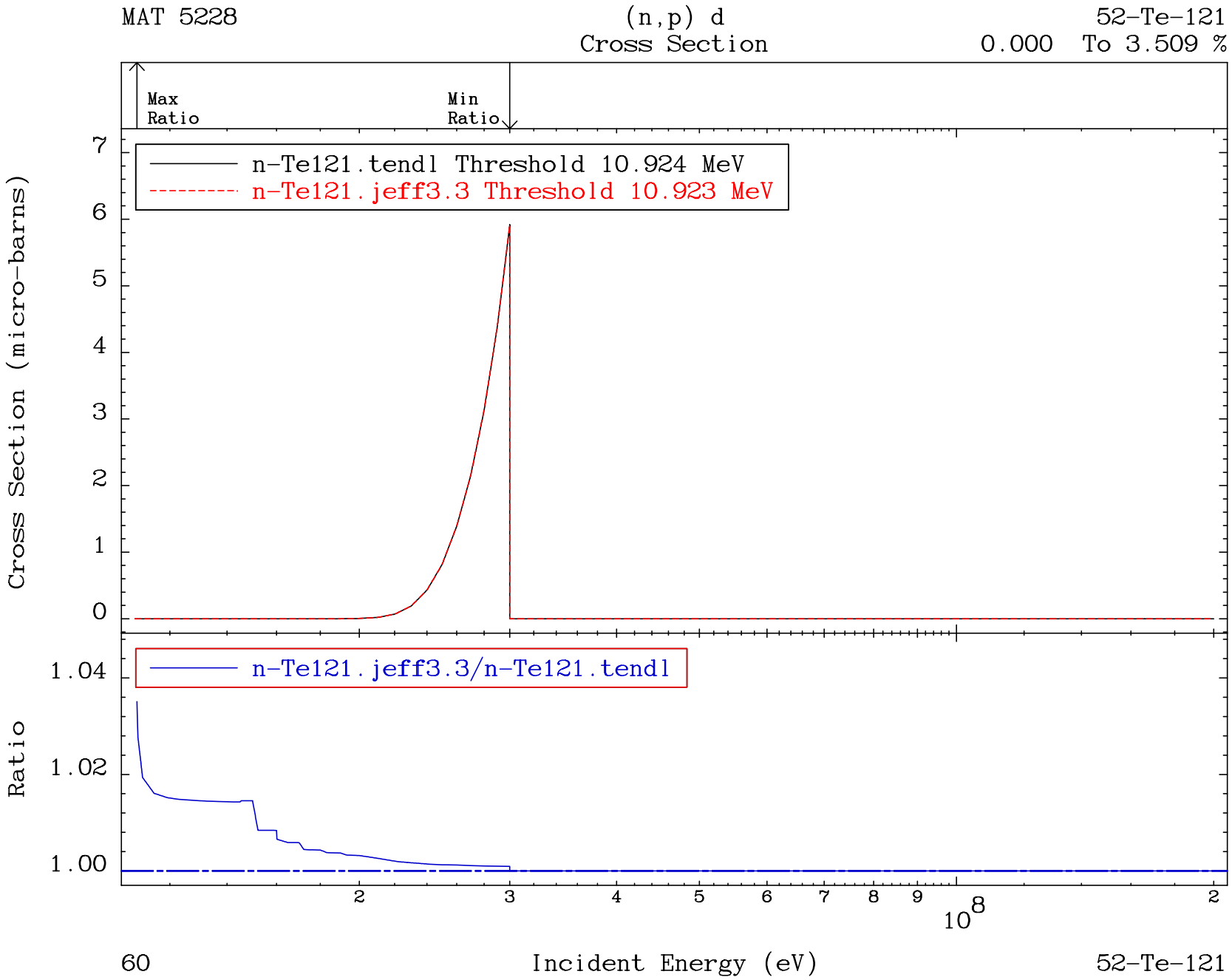

MAT 5228
(n,He-3)
Cross Section
52-Te-121
0.000 To 118.7 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 5.3849 MeV
n-Te121.jeff3.3 Threshold 5.3836 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
2.4
2.0
1.6
1.2
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
55
Incident Energy (eV)
52-Te-121

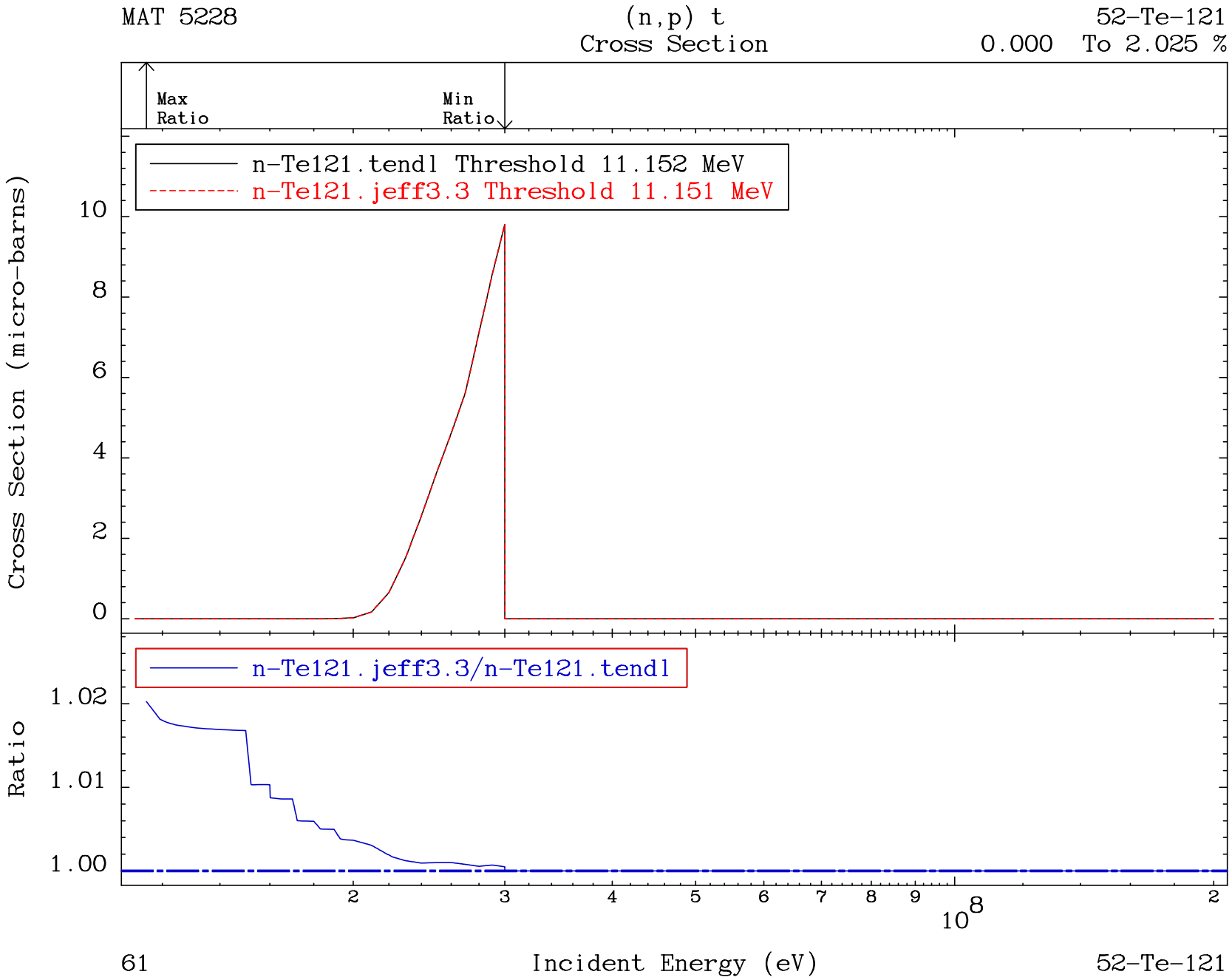

MAT 5228
(n,α)
Cross Section
52-Te-121
-6.568 To 332.4 %
Max Ratio
Min Ratio
n-Te121.tendl
n-Te121.jeff3.3
Cross Section (barns)
n-Te121.jeff3.3/n-Te121.tendl
Ratio
Incident Energy (eV)
56
52-Te-121

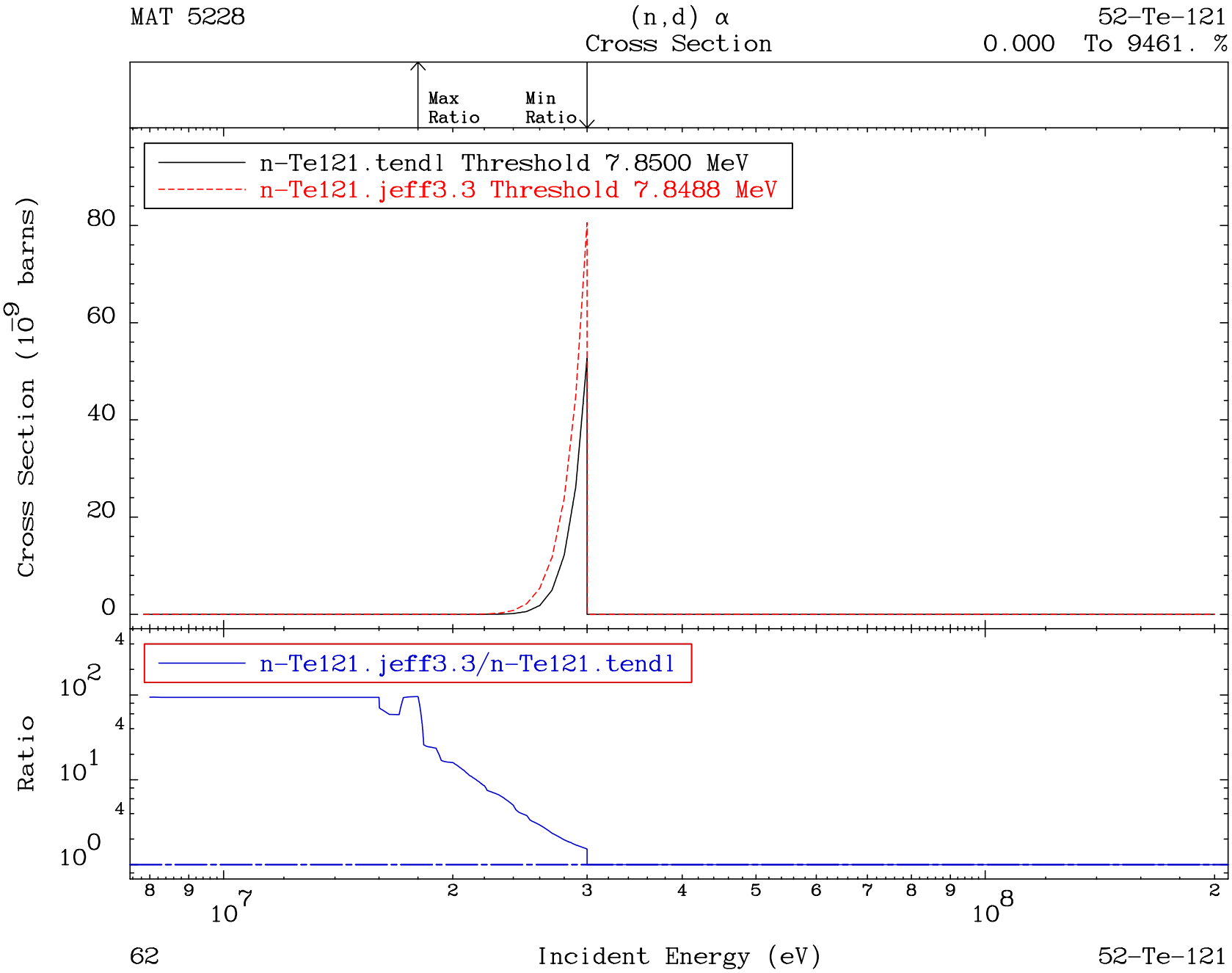

MAT 5228
(n,2α)
Cross Section
52-Te-121
0.000 To 9999. %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 161.36 eV
n-Te121.jeff3.3 Threshold 1.3468 keV
Cross Section (10^-9 barns)
800
600
400
200
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
10^3
10^2
10^1
10^0
2 3 5 7 10^3 2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
57
Incident Energy (eV)
52-Te-121

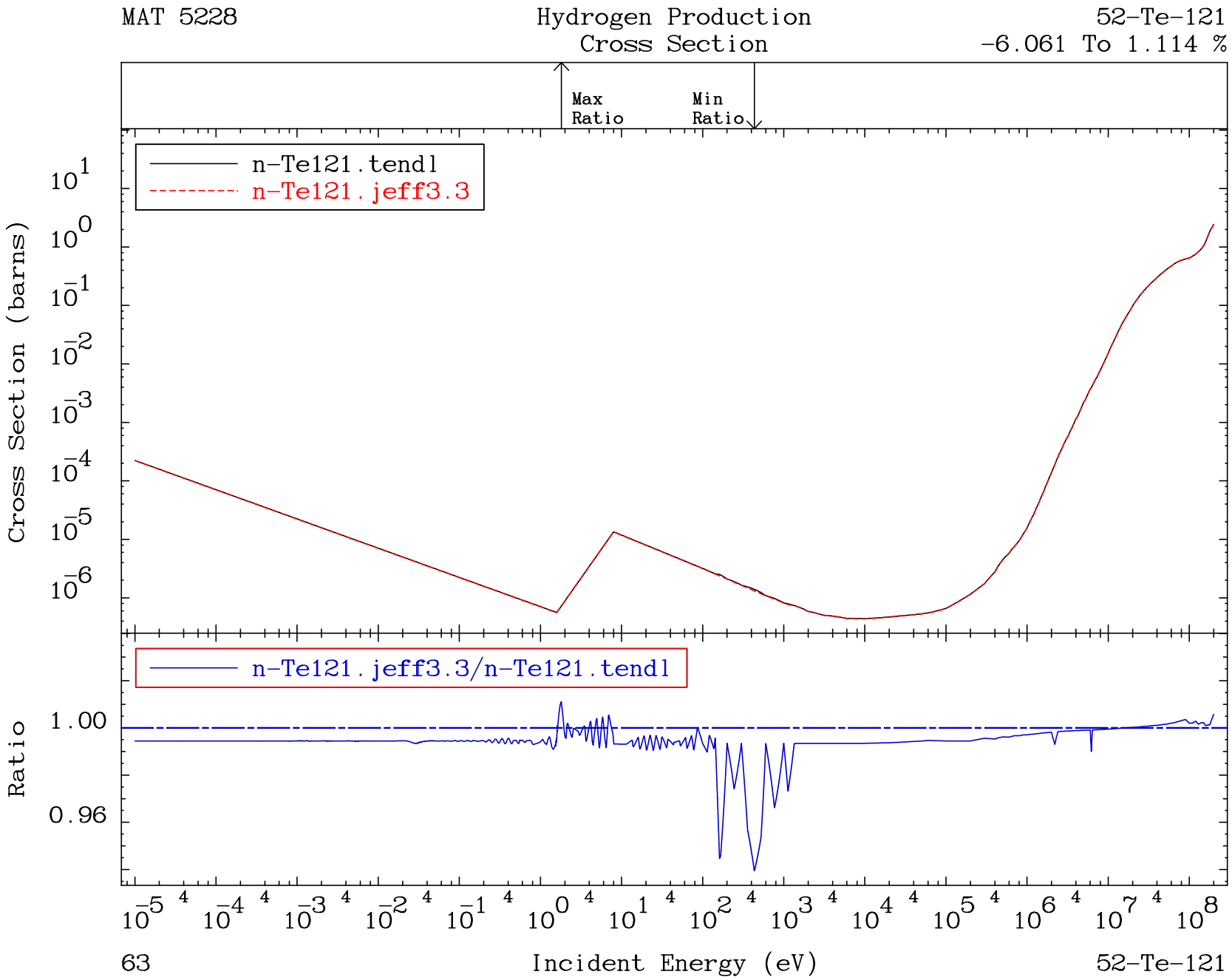

MAT 5228
(n,2p)
Cross Section
52-Te-121
0.000 To 14.94 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 3.9867 MeV
n-Te121.jeff3.3 Threshold 3.9853 MeV
Cross Section (micro-barns)
160
140
120
100
80
60
40
20
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.1
1.0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
58
Incident Energy (eV)
52-Te-121

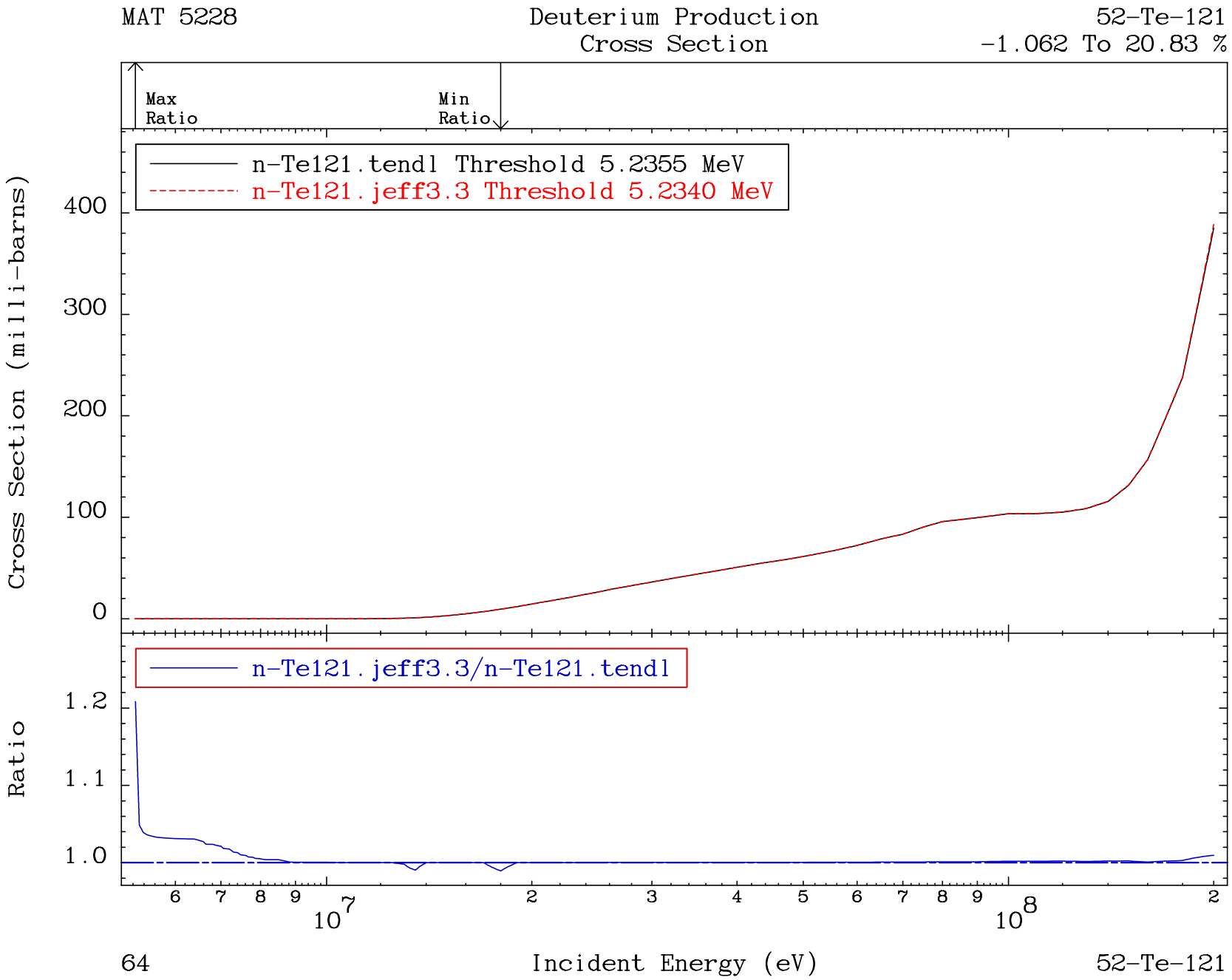

MAT 5228
(n,p) α
Cross Section
52-Te-121
-3.432 To 9999. %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 1.2554 MeV
n-Te121.jeff3.3 Threshold 1.2541 MeV
Cross Section (micro-barns)
n-Te121.jeff3.3/n-Te121.tendl
Ratio
Incident Energy (eV)
59
52-Te-121

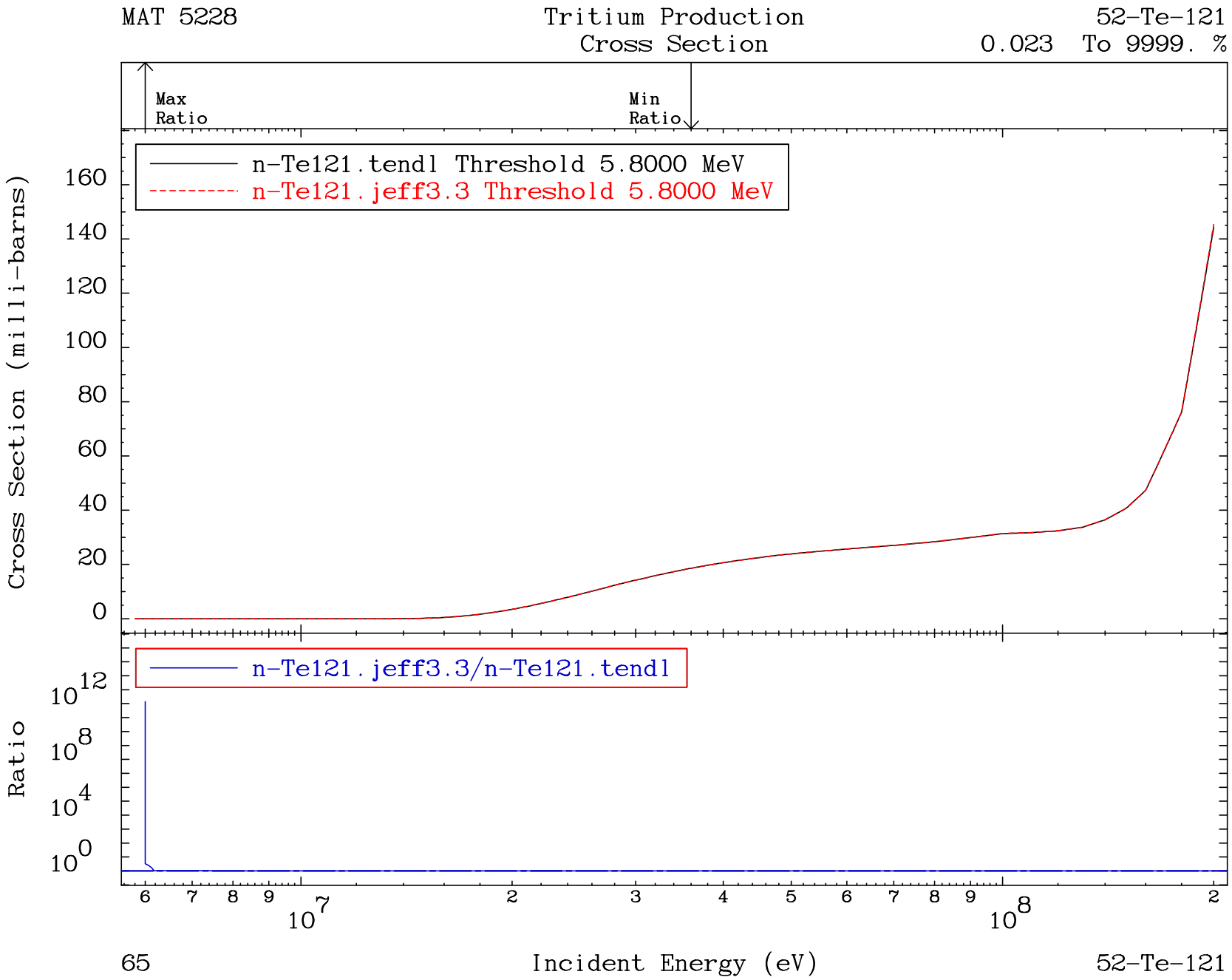

MAT 5228
(n,p) d
Cross Section
52-Te-121
0.000 To 3.509 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 10.924 MeV
n-Te121.jeff3.3 Threshold 10.923 MeV
Cross Section (micro-barns)
0
1
2
3
4
5
6
7
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.00
1.02
1.04
2
3
4
5
6
7
8
9
10^8
2
60
Incident Energy (eV)
52-Te-121

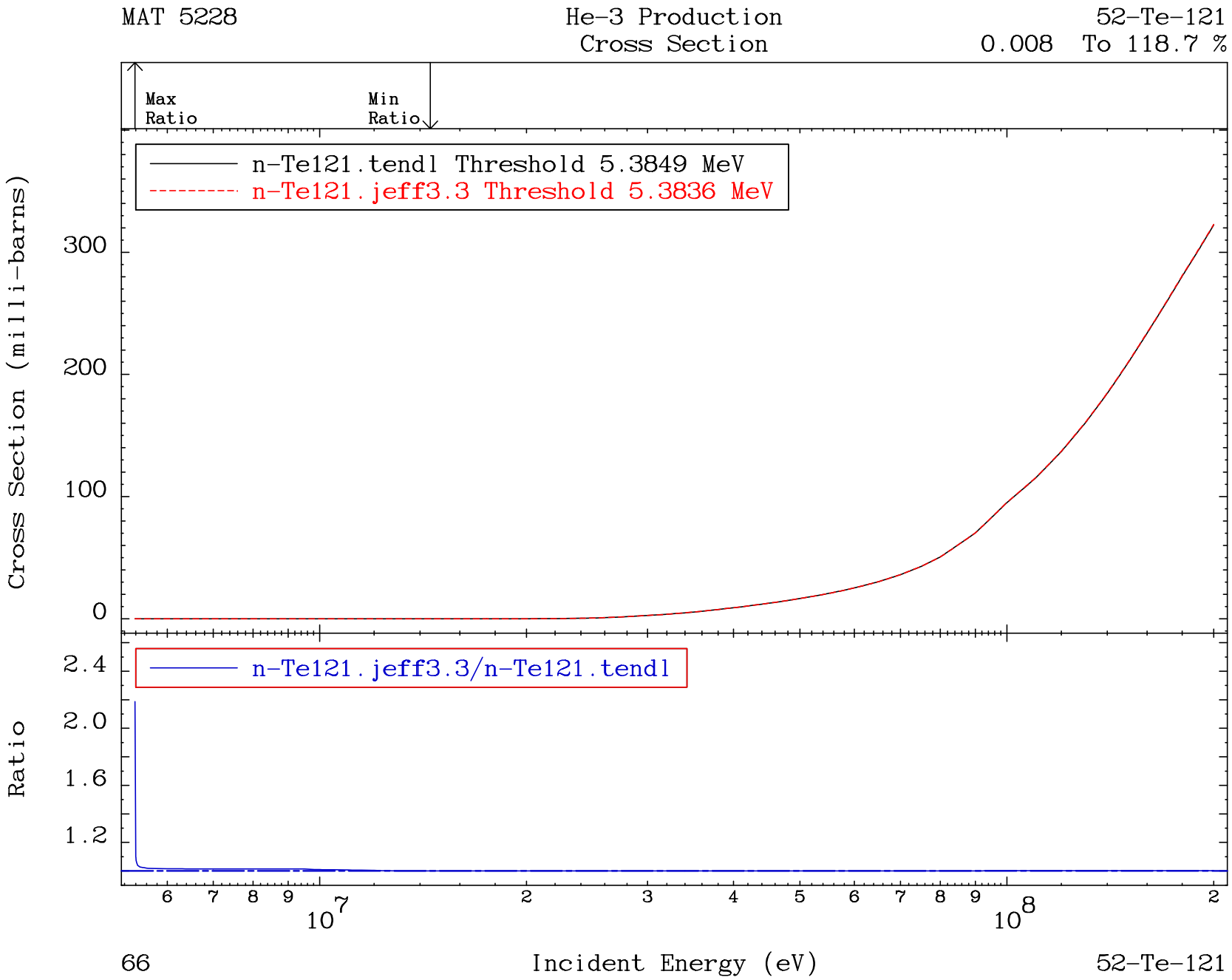

MAT 5228
(n,p) t
Cross Section
52-Te-121
0.000 To 2.025 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 11.152 MeV
n-Te121.jeff3.3 Threshold 11.151 MeV
Cross Section (micro-barns)
0
2
4
6
8
10
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.00
1.01
1.02
2
3
4
5
6
7
8
9
10^8
2
61
Incident Energy (eV)
52-Te-121

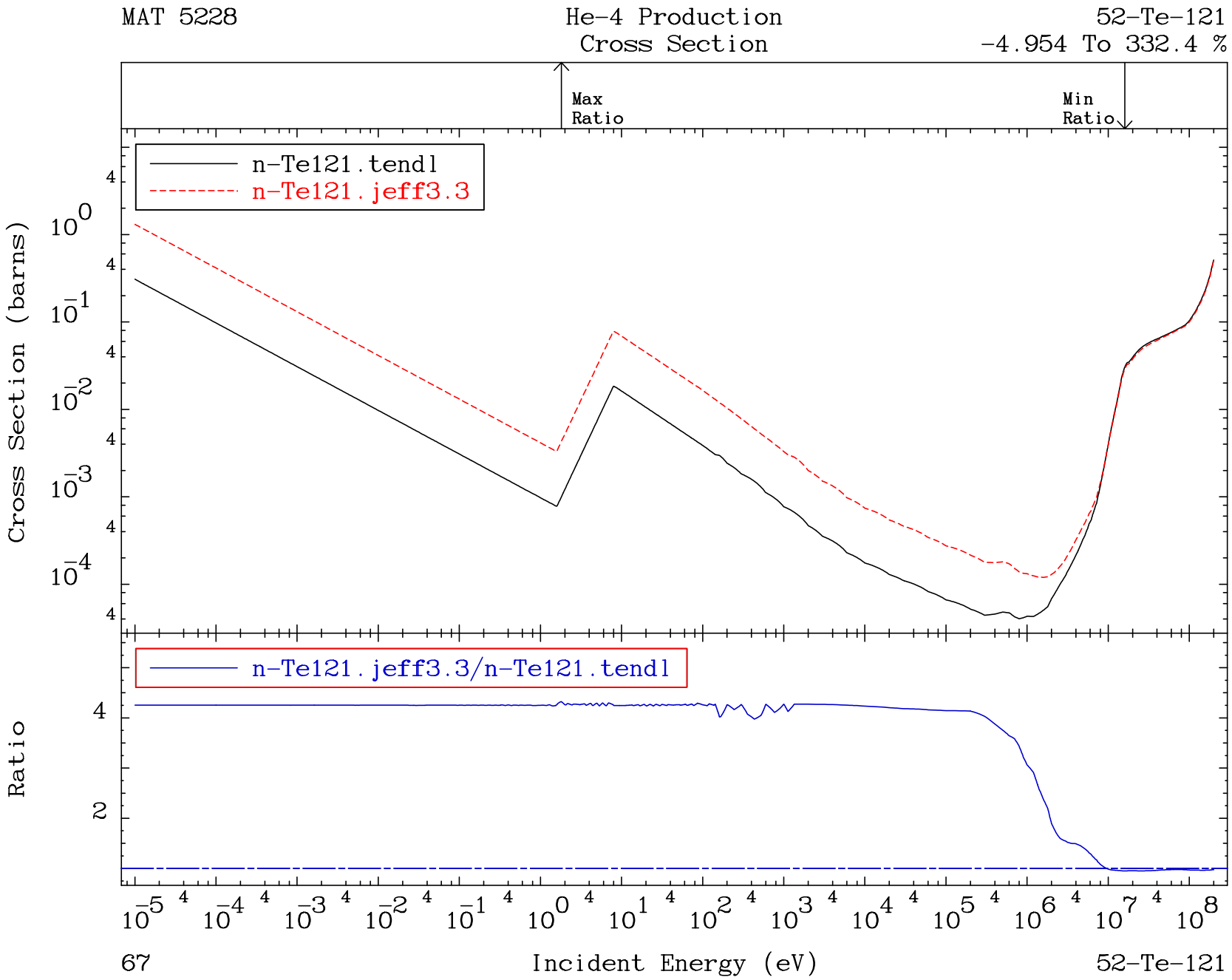

MAT 5228
(n,d) α
Cross Section
52-Te-121
0.000 To 9461. %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 7.8500 MeV
n-Te121.jeff3.3 Threshold 7.8488 MeV
Cross Section (10^{-9} barns)
80
60
40
20
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
10^{2}
10^{1}
10^{0}
4
8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
62
Incident Energy (eV)
52-Te-121

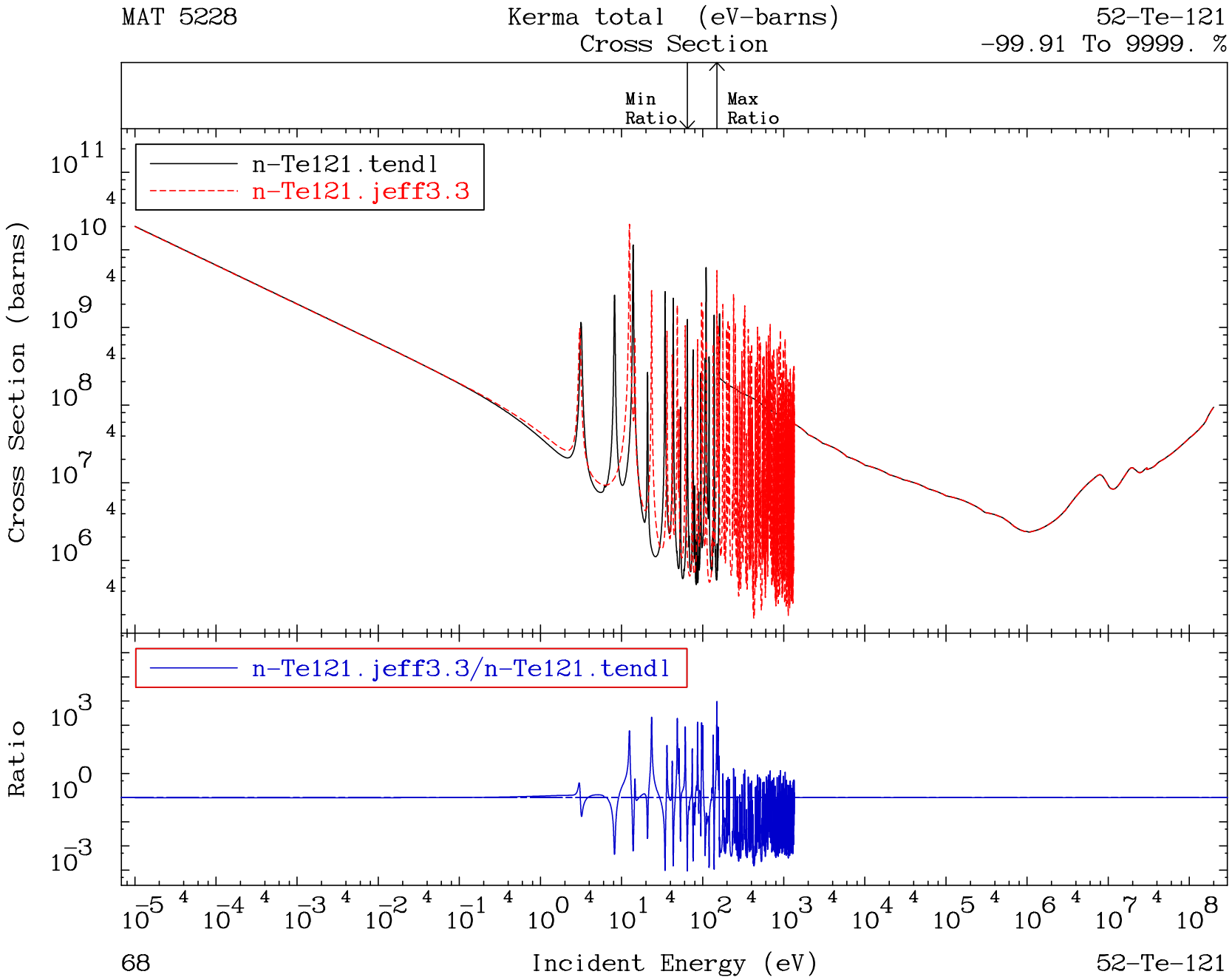

MAT 5228
Hydrogen Production
Cross Section
52-Te-121
-6.061 To 1.114 %
Max Ratio
Min Ratio
n-Te121.tendl
n-Te121.jeff3.3
Cross Section (barns)
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.00
0.96
63
Incident Energy (eV)
52-Te-121

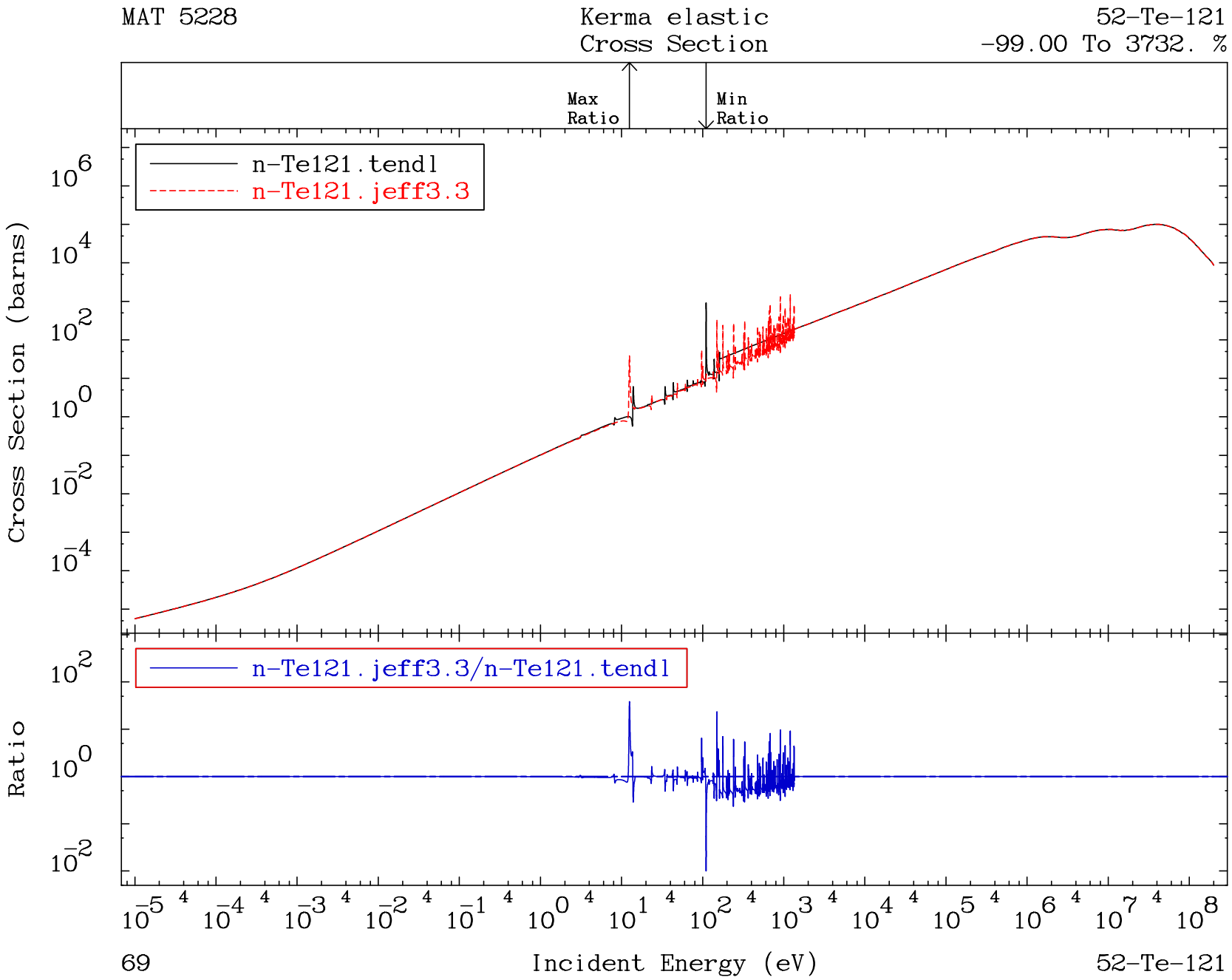

MAT 5228
Deuterium Production
Cross Section
52-Te-121
-1.062 To 20.83 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 5.2355 MeV
n-Te121.jeff3.3 Threshold 5.2340 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.2
1.1
1.0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
64
Incident Energy (eV)
52-Te-121

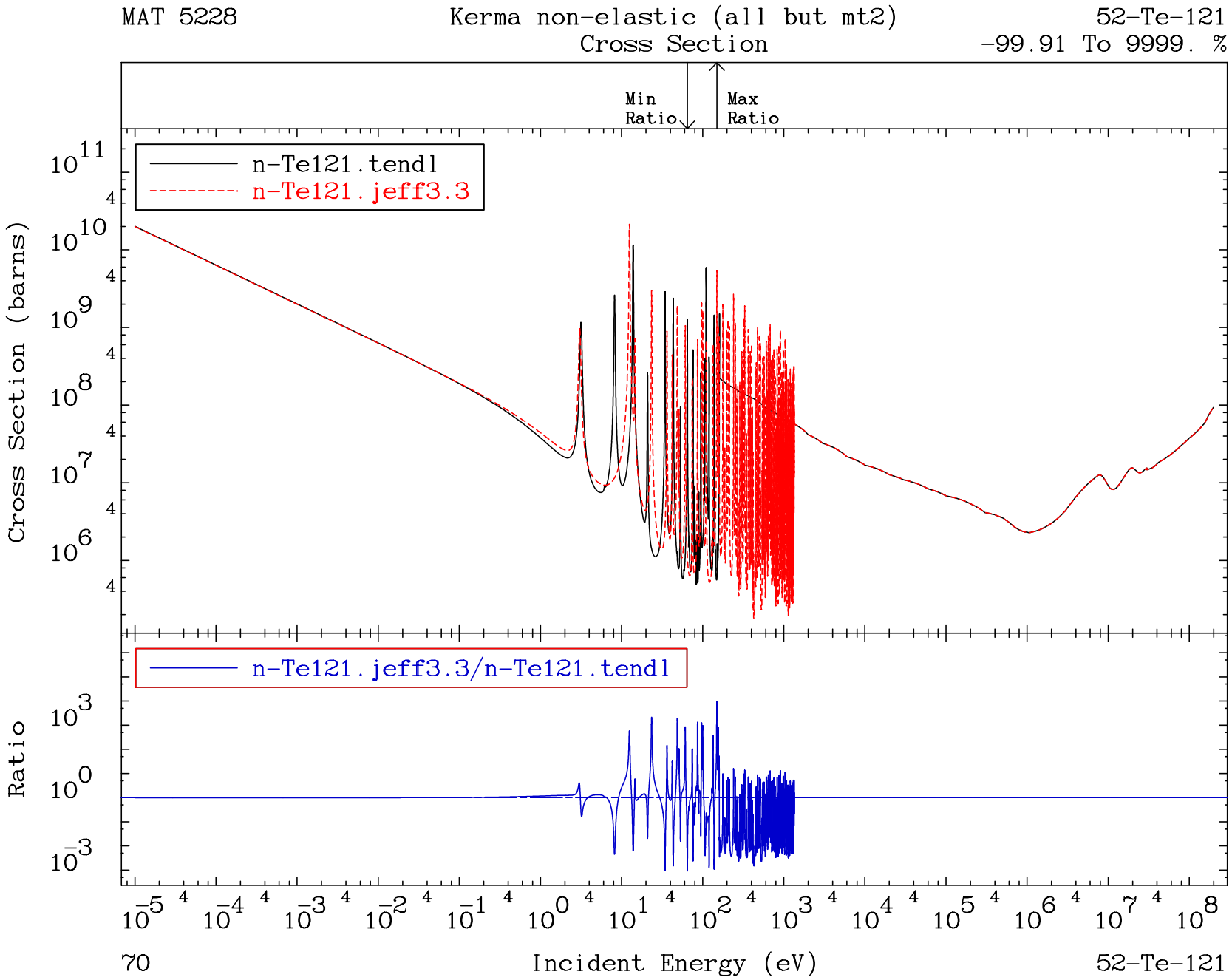

MAT 5228
Tritium Production
Cross Section
52-Te-121
0.023 To 9999. %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 5.8000 MeV
n-Te121.jeff3.3 Threshold 5.8000 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
10^12
10^8
10^4
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
65
Incident Energy (eV)
52-Te-121

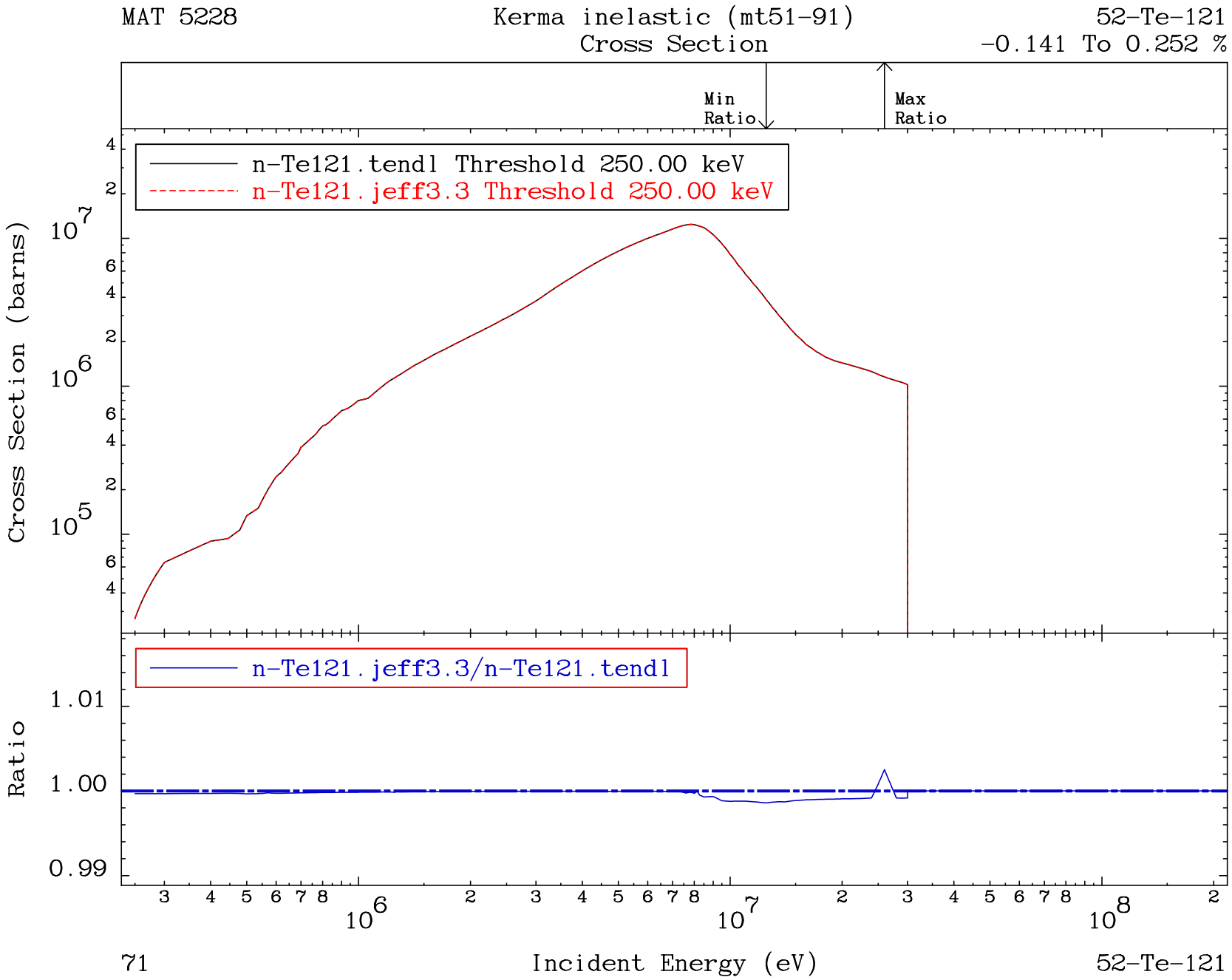

MAT 5228
He-3 Production
Cross Section
52-Te-121
0.008 To 118.7 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 5.3849 MeV
n-Te121.jeff3.3 Threshold 5.3836 MeV
Cross Section (milli-barns)
300
200
100
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
2.4
2.0
1.6
1.2
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
66
Incident Energy (eV)
52-Te-121

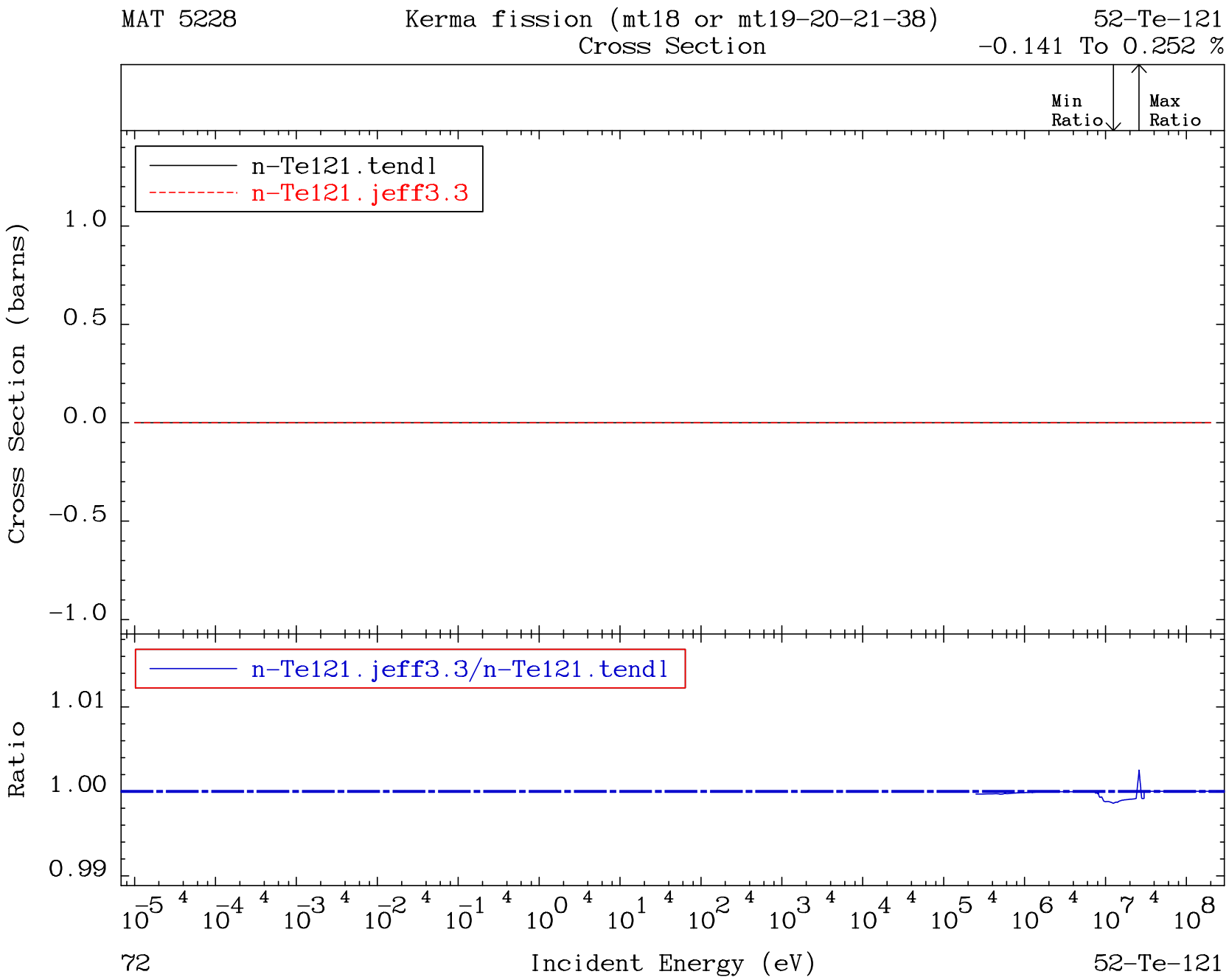

MAT 5228
He-4 Production
Cross Section
52-Te-121
-4.954 To 332.4 %
Max
Ratio
Min
Ratio
n-Te121.tendl
n-Te121.jeff3.3
Cross Section (barns)
n-Te121.jeff3.3/n-Te121.tendl
Ratio
Incident Energy (eV)
67
52-Te-121

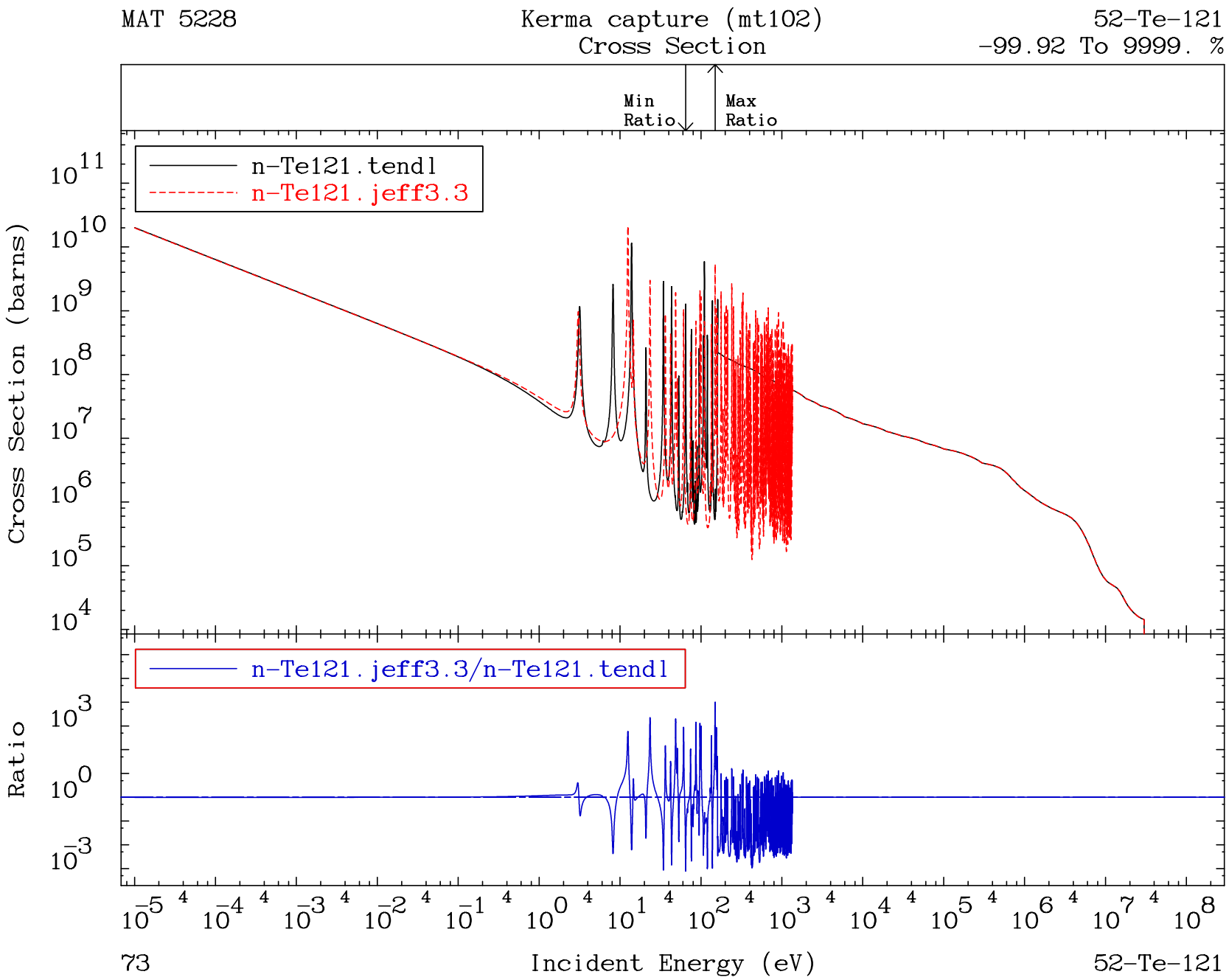

MAT 5228
Kerma total (eV-barns)
Cross Section
52-Te-121
-99.91 To 9999. %
Min Ratio
Max Ratio
n-Te121.tendl
n-Te121.jeff3.3
Cross Section (barns)
n-Te121.jeff3.3/n-Te121.tendl
Ratio
Incident Energy (eV)
68
52-Te-121

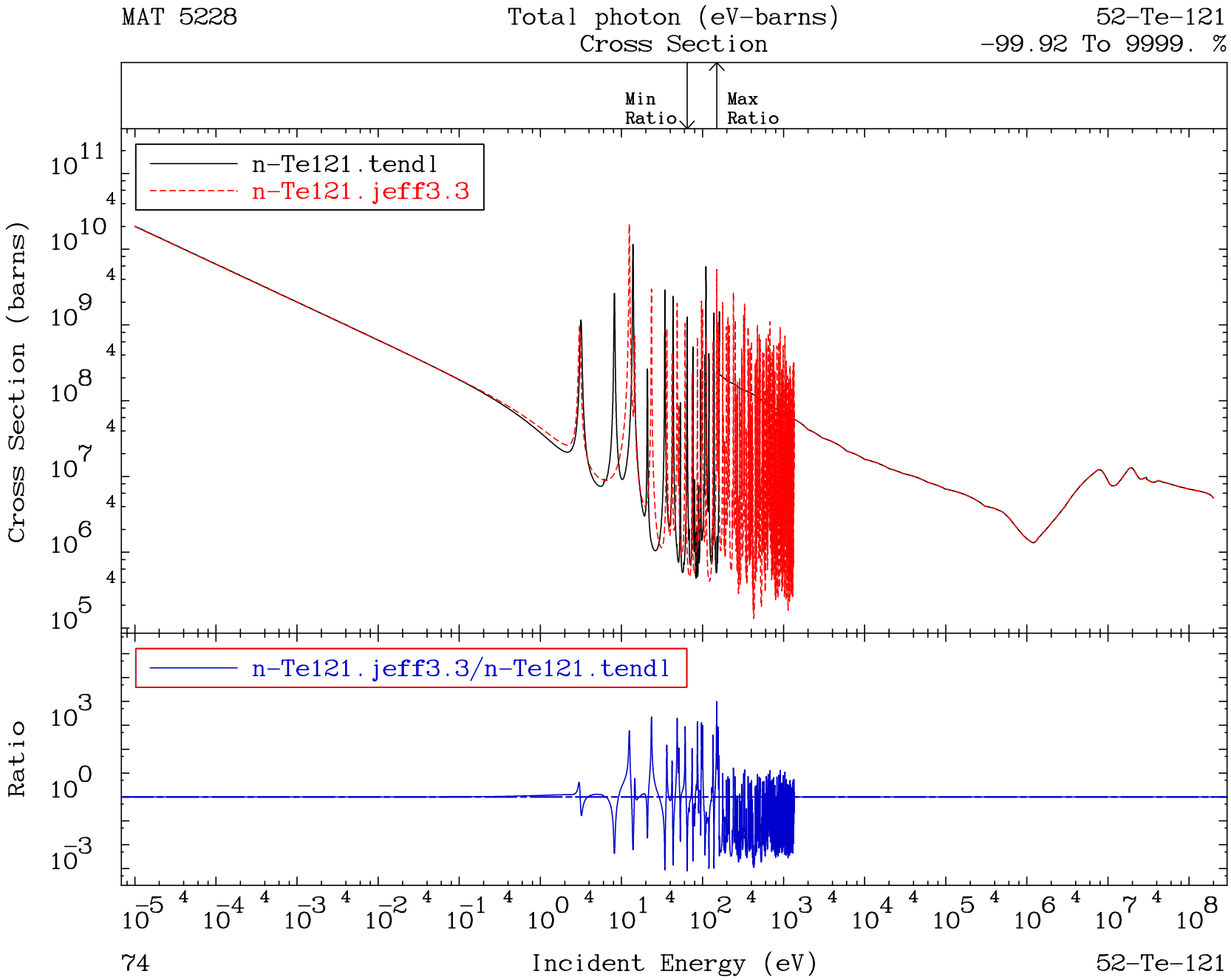

MAT 5228
Kerma elastic
Cross Section
52-Te-121
-99.00 To 3732. %
Max
Ratio
Min
Ratio
n-Te121.tendl
n-Te121.jeff3.3
Cross Section (barns)
Ratio
n-Te121.jeff3.3/n-Te121.tendl
Incident Energy (eV)
69
52-Te-121

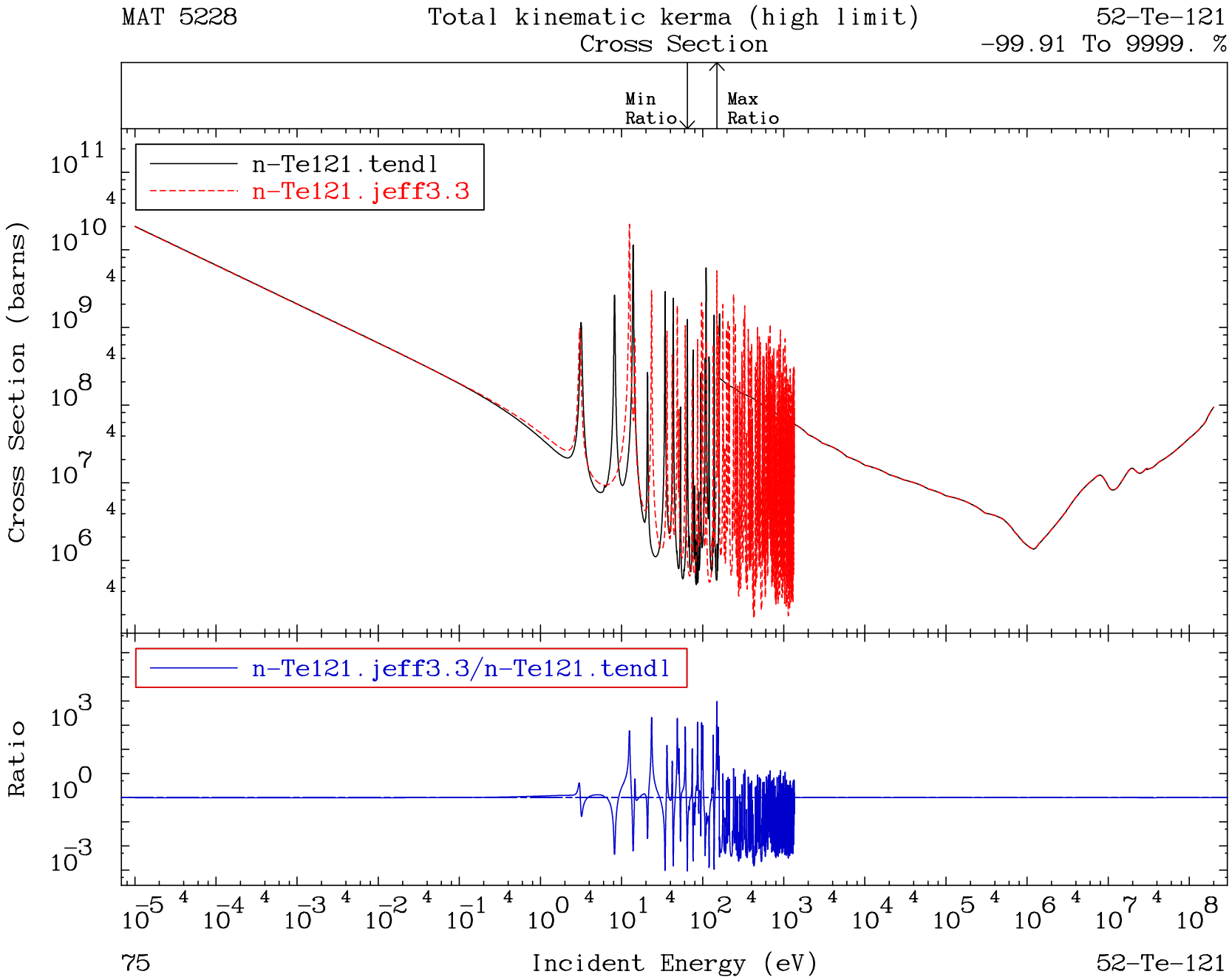

MAT 5228
Kerma non-elastic (all but mt2)
Cross Section
52-Te-121
-99.91 To 9999. %
Min Ratio
Max Ratio
n-Te121.tendl
n-Te121.jeff3.3
Cross Section (barns)
n-Te121.jeff3.3/n-Te121.tendl
Ratio
Incident Energy (eV)
70
52-Te-121

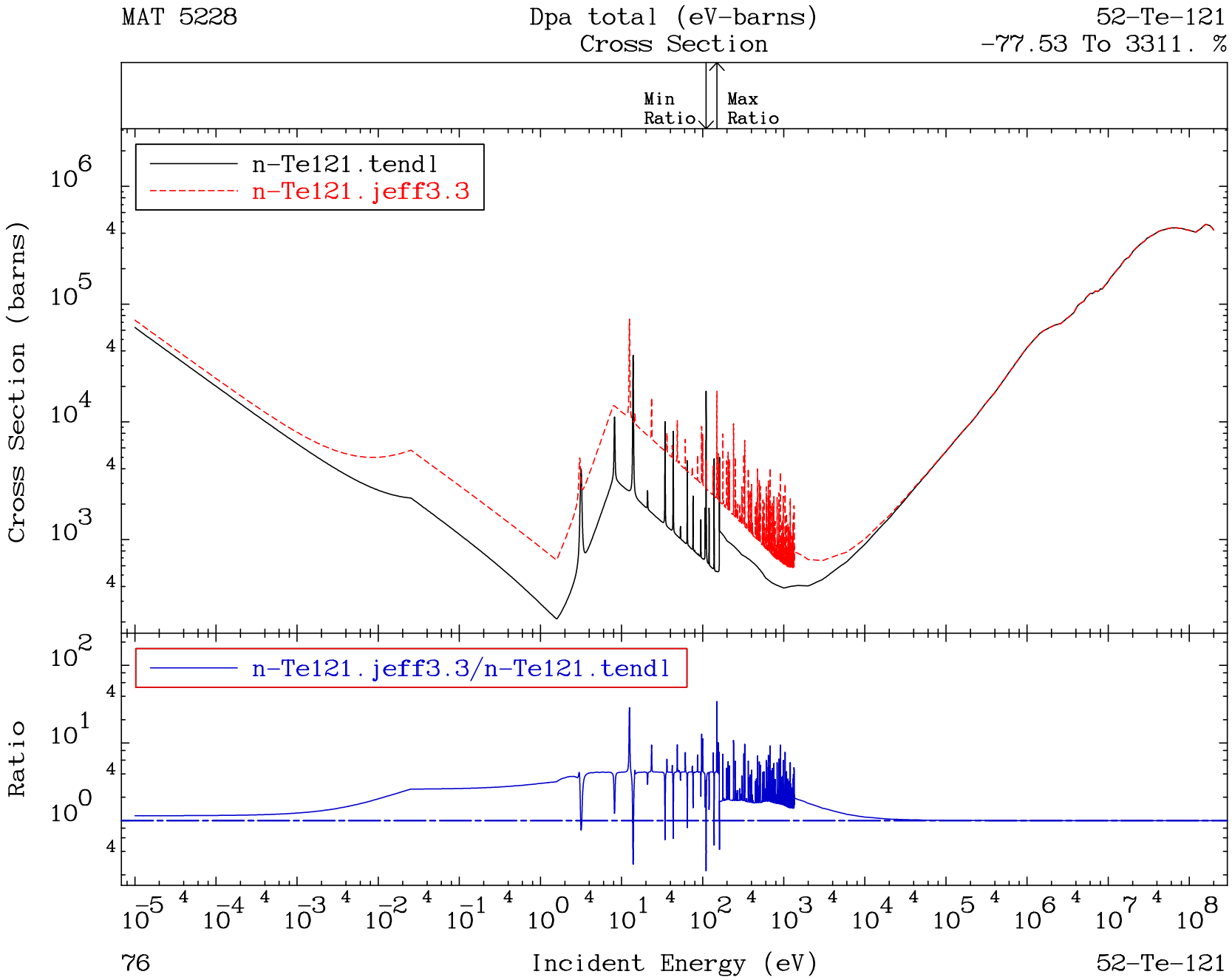

MAT 5228
Kerma inelastic (mt51-91)
Cross Section
52-Te-121
-0.141 To 0.252 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 250.00 keV
n-Te121.jeff3.3 Threshold 250.00 keV
Cross Section (barns)
n-Te121.jeff3.3/n-Te121.tendl
Ratio
Incident Energy (eV)
71
52-Te-121

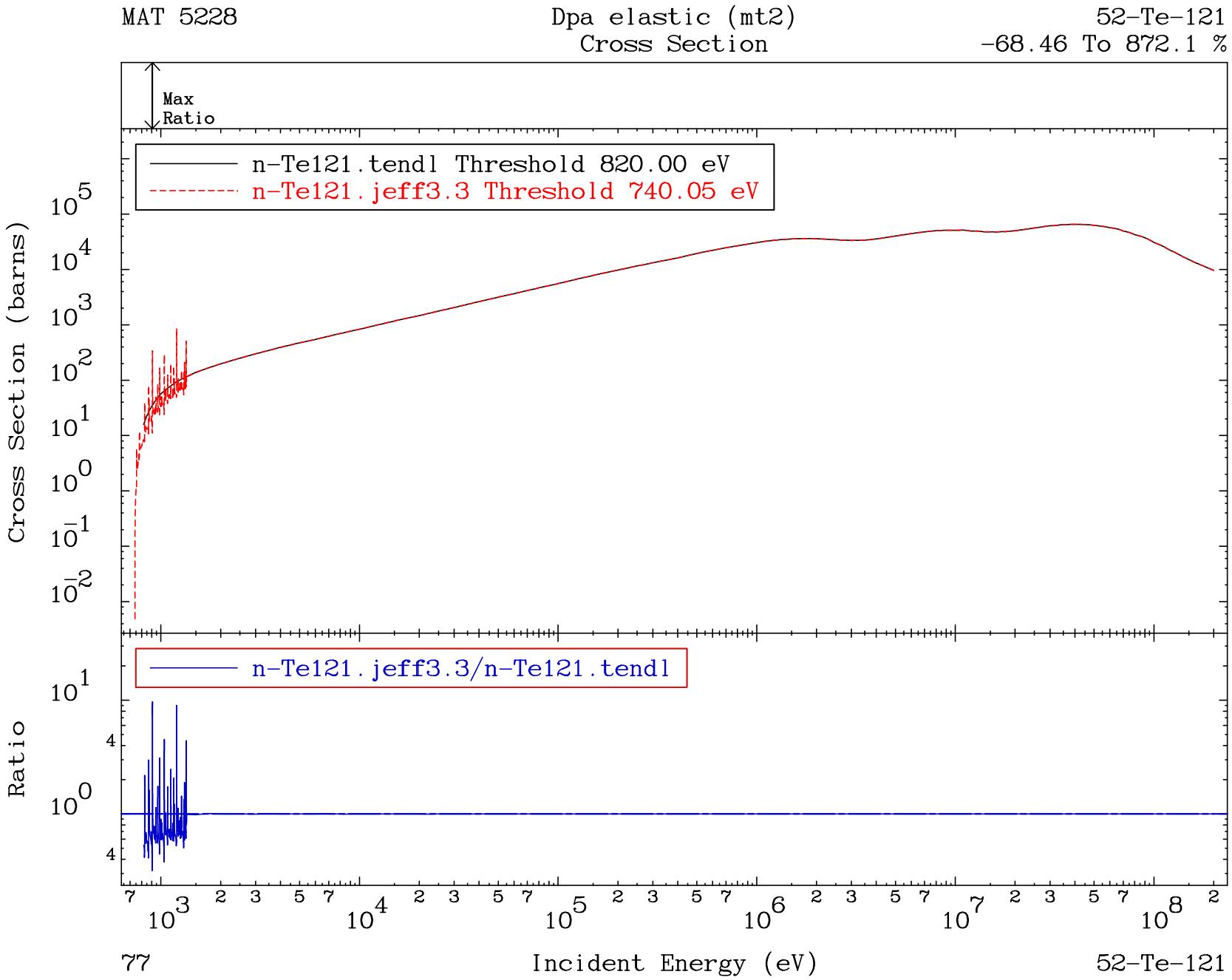

MAT 5228
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
52-Te-121
-0.141 To 0.252 %
Min Ratio
Max Ratio
n-Te121.tendl
n-Te121.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
72
Incident Energy (eV)
52-Te-121

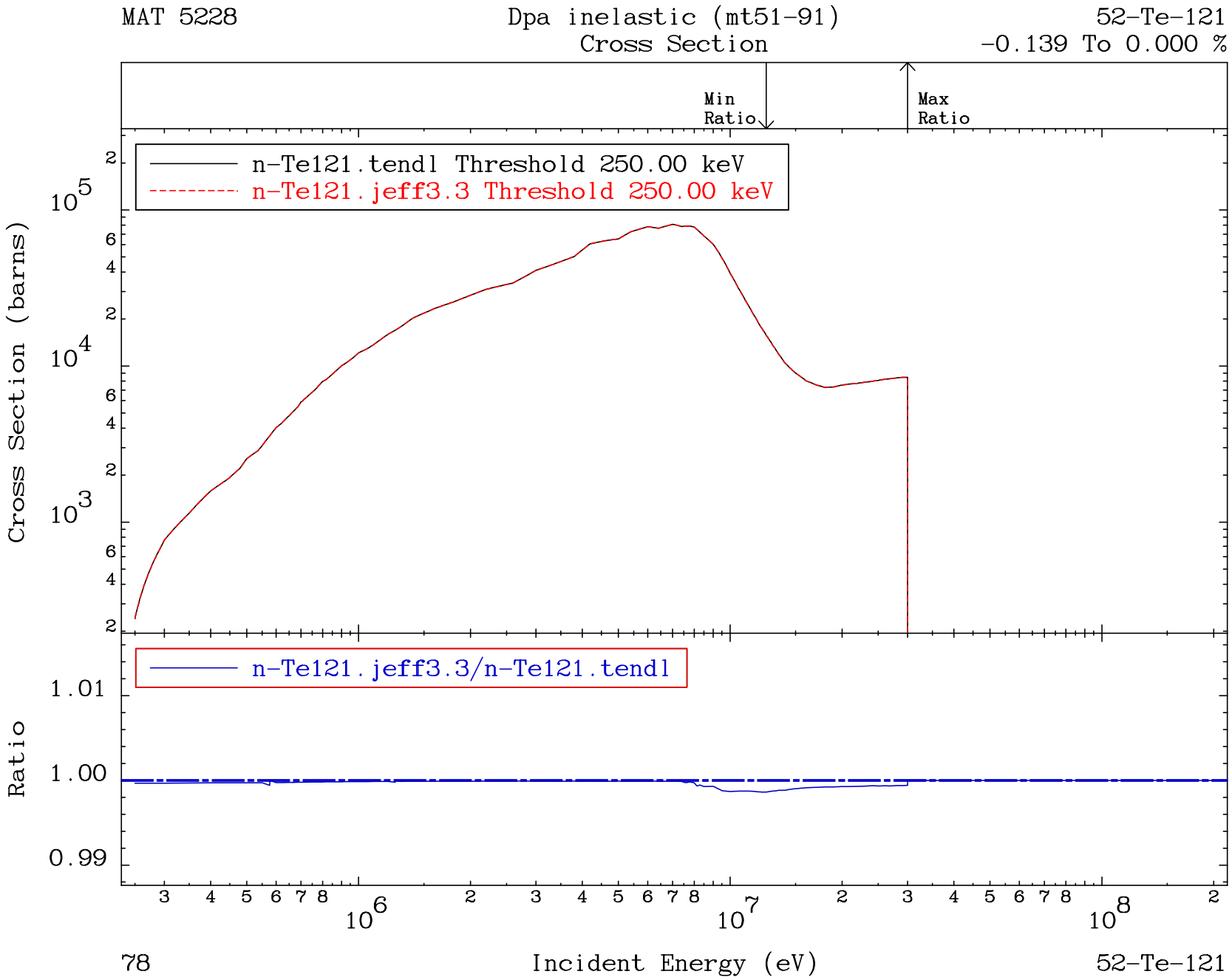

MAT 5228
Kerma capture (mt102)
Cross Section
52-Te-121
-99.92 To 9999. %
Min Ratio
Max Ratio
n-Te121.tendl
n-Te121.jeff3.3
Cross Section (barns)
n-Te121.jeff3.3/n-Te121.tendl
Ratio
Incident Energy (eV)
73
52-Te-121

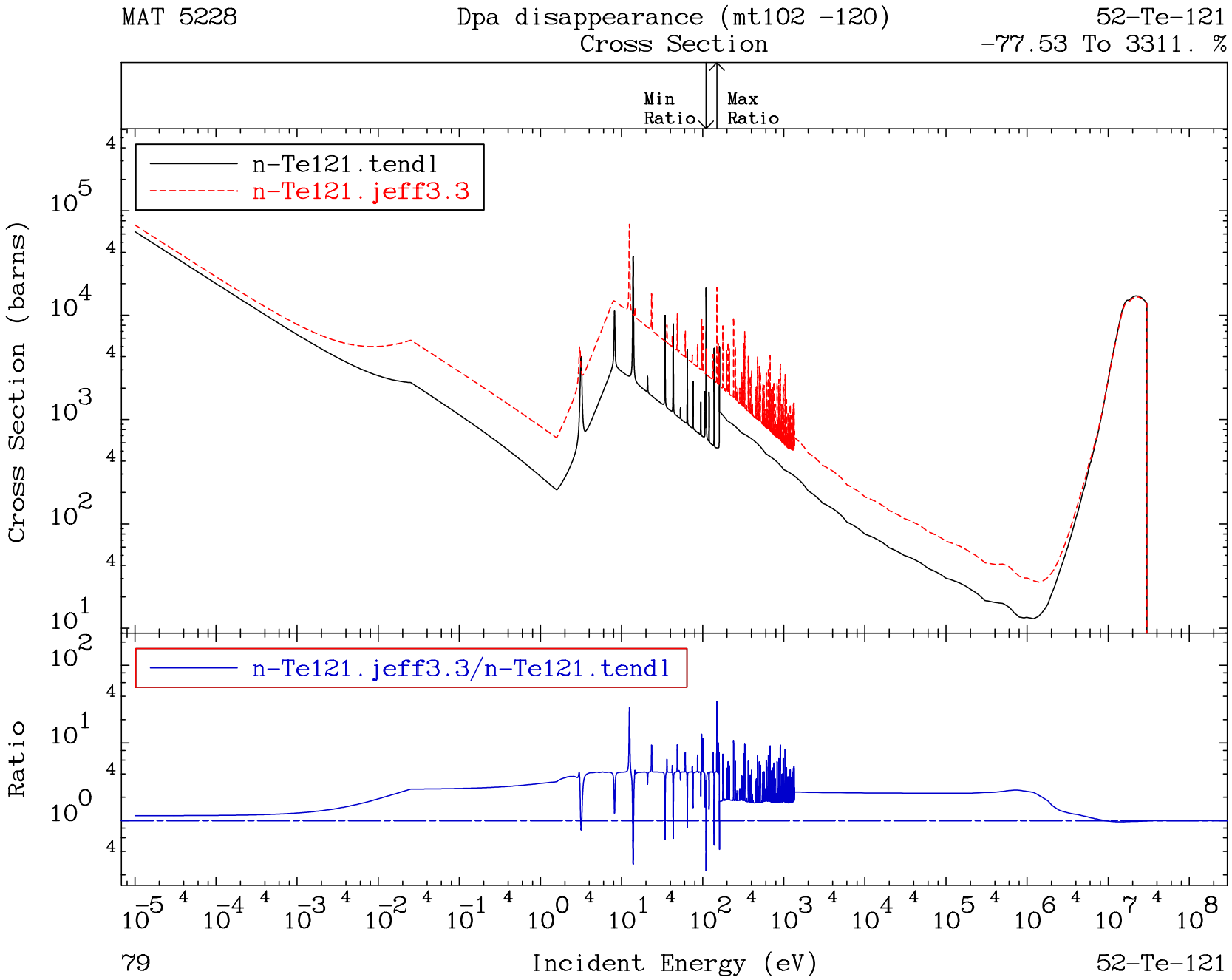

MAT 5228
Total photon (eV-barns)
Cross Section
52-Te-121
-99.92 To 9999. %
Min Ratio
Max Ratio
n-Te121.tendl
n-Te121.jeff3.3
Cross Section (barns)
n-Te121.jeff3.3/n-Te121.tendl
Ratio
Incident Energy (eV)
74
52-Te-121

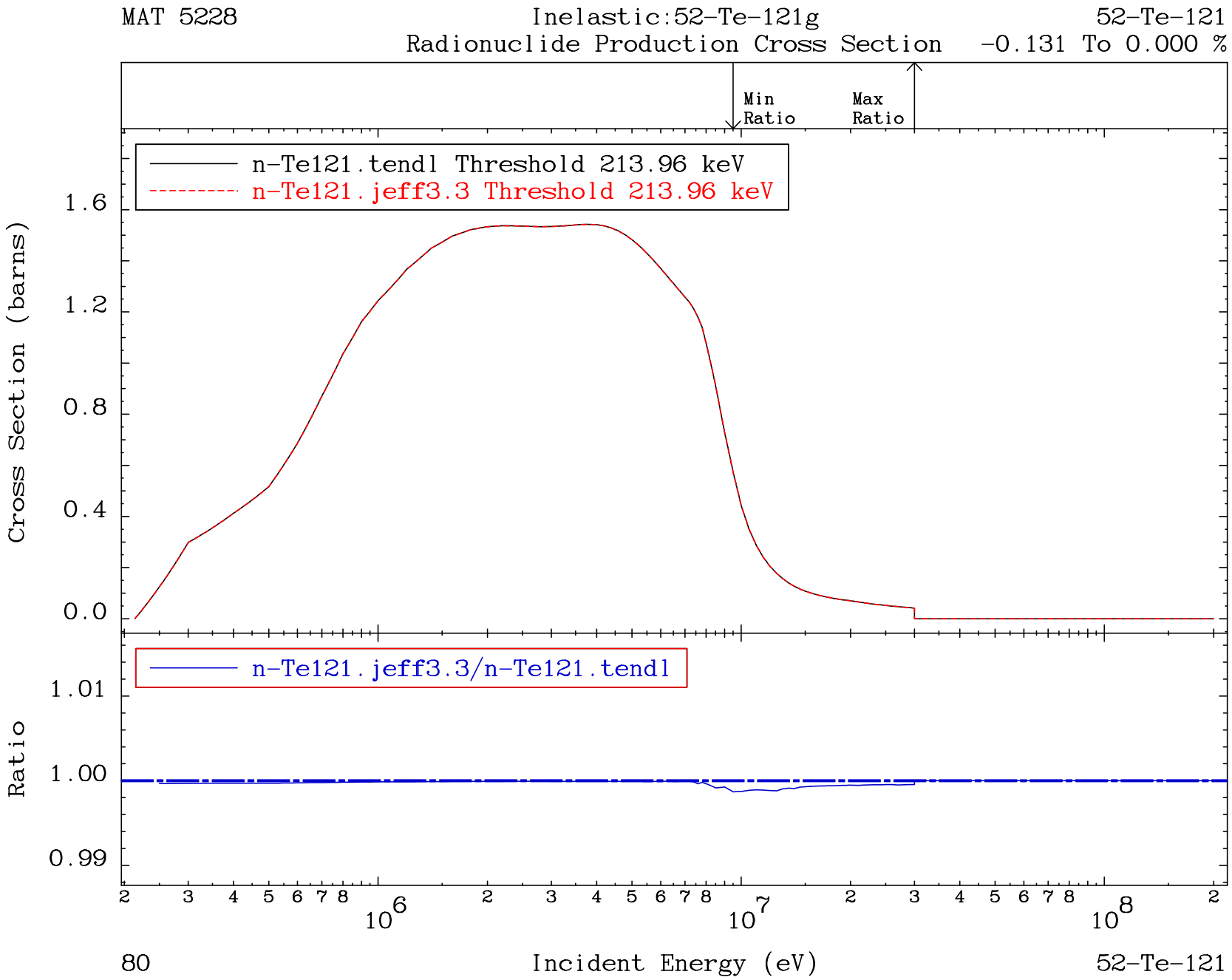

MAT 5228
Total kinematic kerma (high limit)
Cross Section
52-Te-121
-99.91 To 9999. %
Min Ratio
Max Ratio
n-Te121.tendl
n-Te121.jeff3.3
Cross Section (barns)
n-Te121.jeff3.3/n-Te121.tendl
Ratio
Incident Energy (eV)
75
52-Te-121

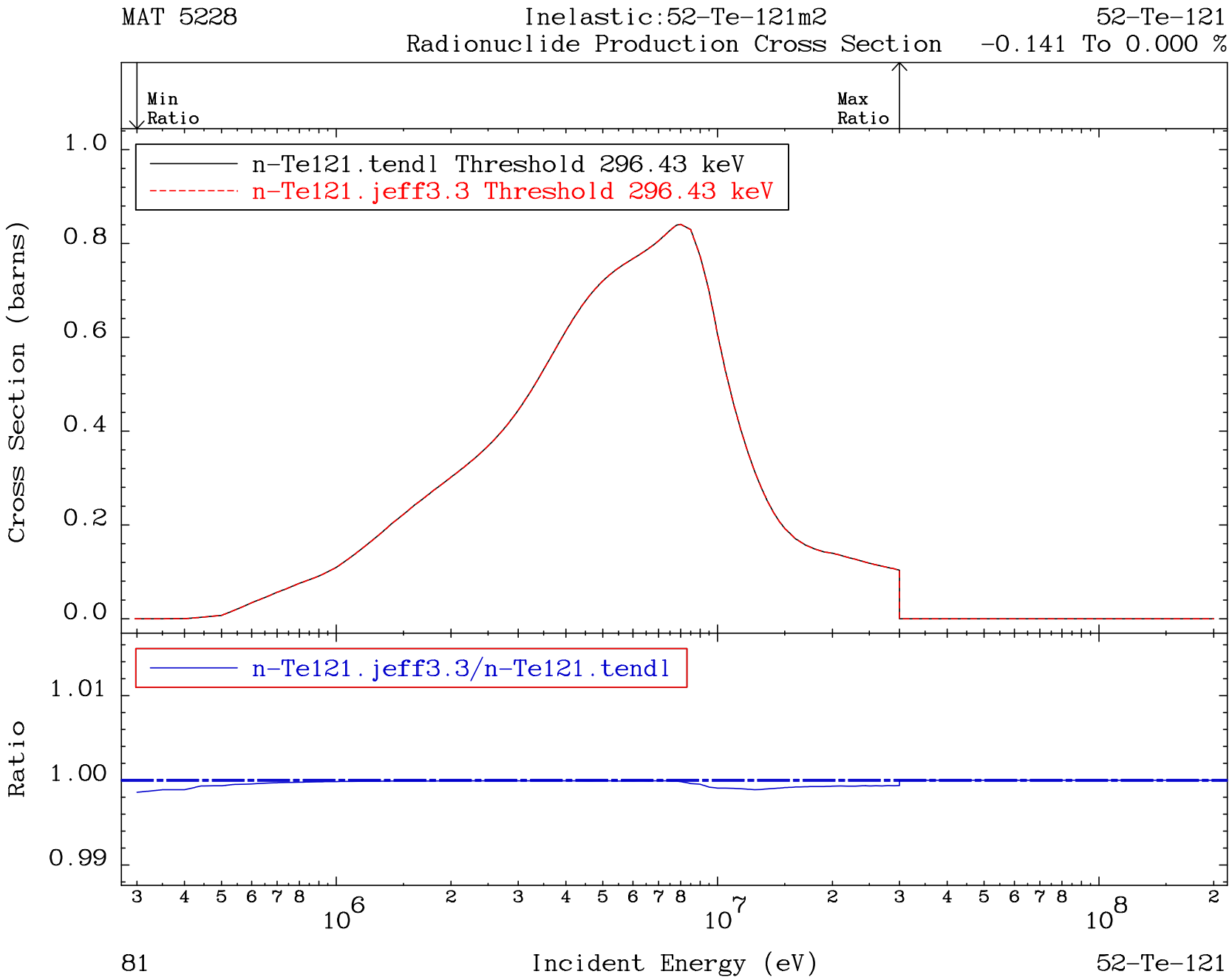

MAT 5228
Dpa total (eV-barns)
Cross Section
52-Te-121
-77.53 To 3311. %
Min Ratio
Max Ratio
n-Te121.tendl
n-Te121.jeff3.3
Cross Section (barns)
n-Te121.jeff3.3/n-Te121.tendl
Ratio
Incident Energy (eV)
76
52-Te-121

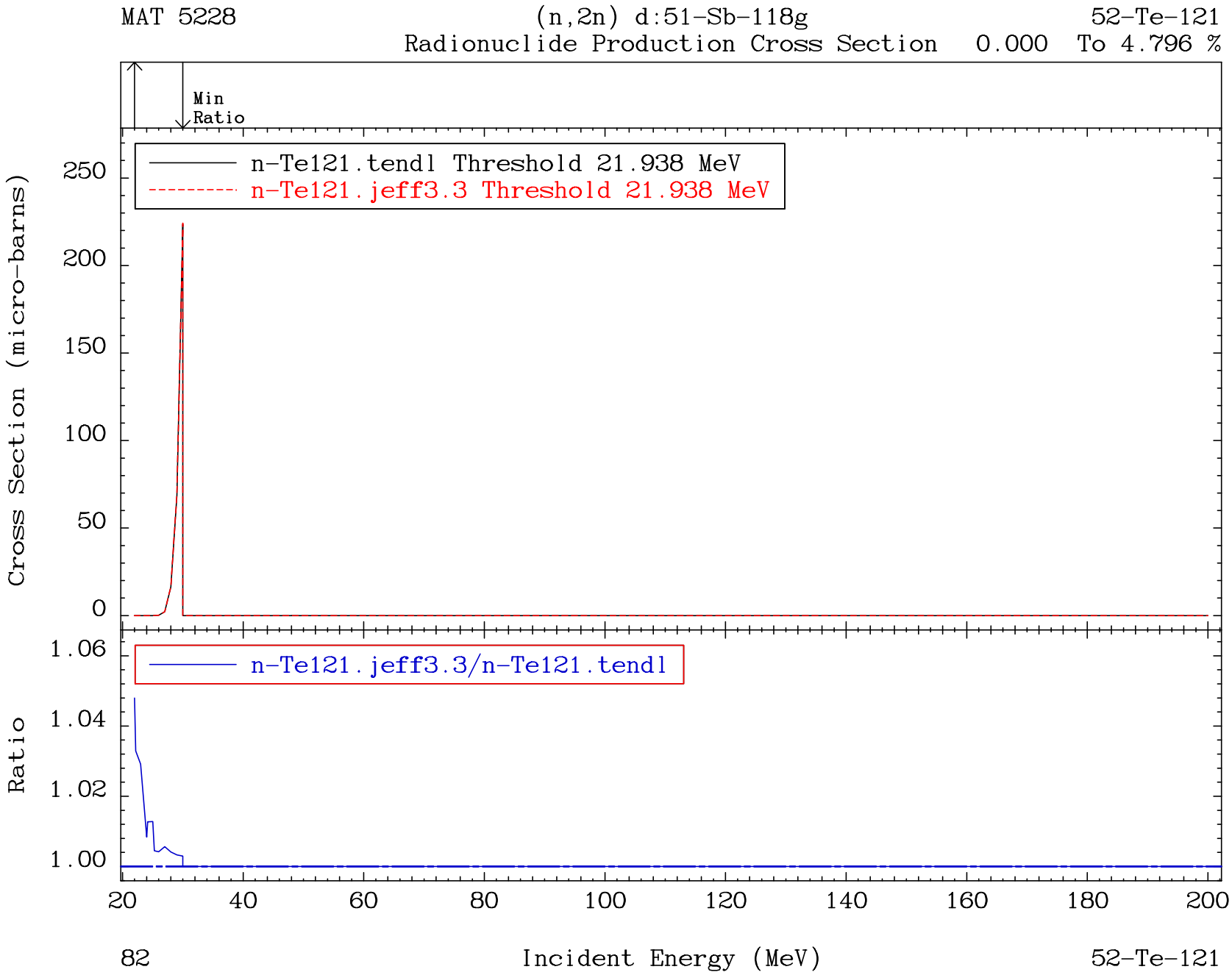

MAT 5228
Dpa elastic (mt2)
Cross Section
52-Te-121
-68.46 To 872.1 %
Max
Ratio
n-Te121.tendl Threshold 820.00 eV
n-Te121.jeff3.3 Threshold 740.05 eV
Cross Section (barns)
n-Te121.jeff3.3/n-Te121.tendl
Ratio
Incident Energy (eV)
77
52-Te-121

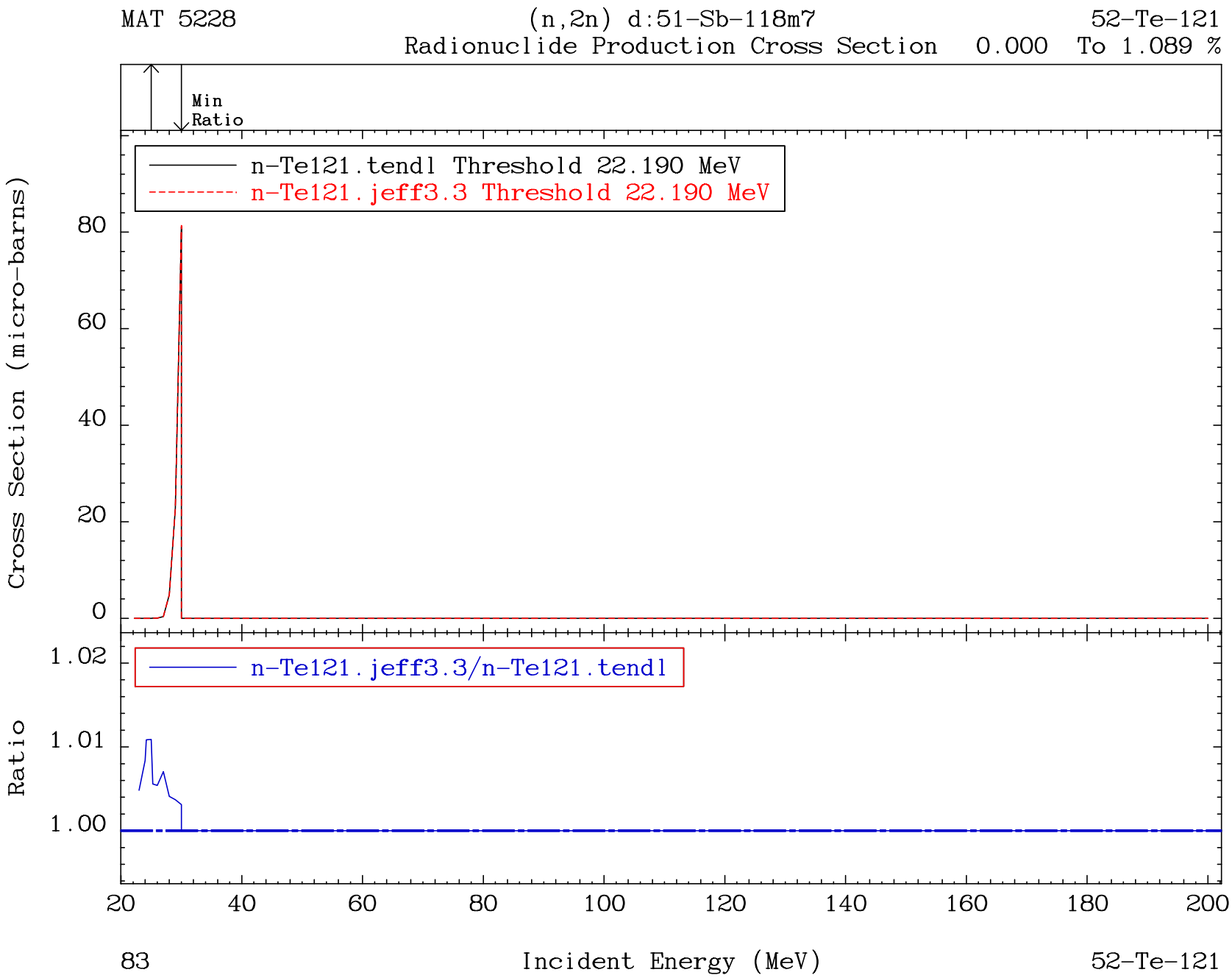

MAT 5228
Dpa inelastic (mt51-91)
Cross Section
52-Te-121
-0.139 To 0.000 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 250.00 keV
n-Te121.jeff3.3 Threshold 250.00 keV
Cross Section (barns)
n-Te121.jeff3.3/n-Te121.tendl
Ratio
Incident Energy (eV)
78
52-Te-121

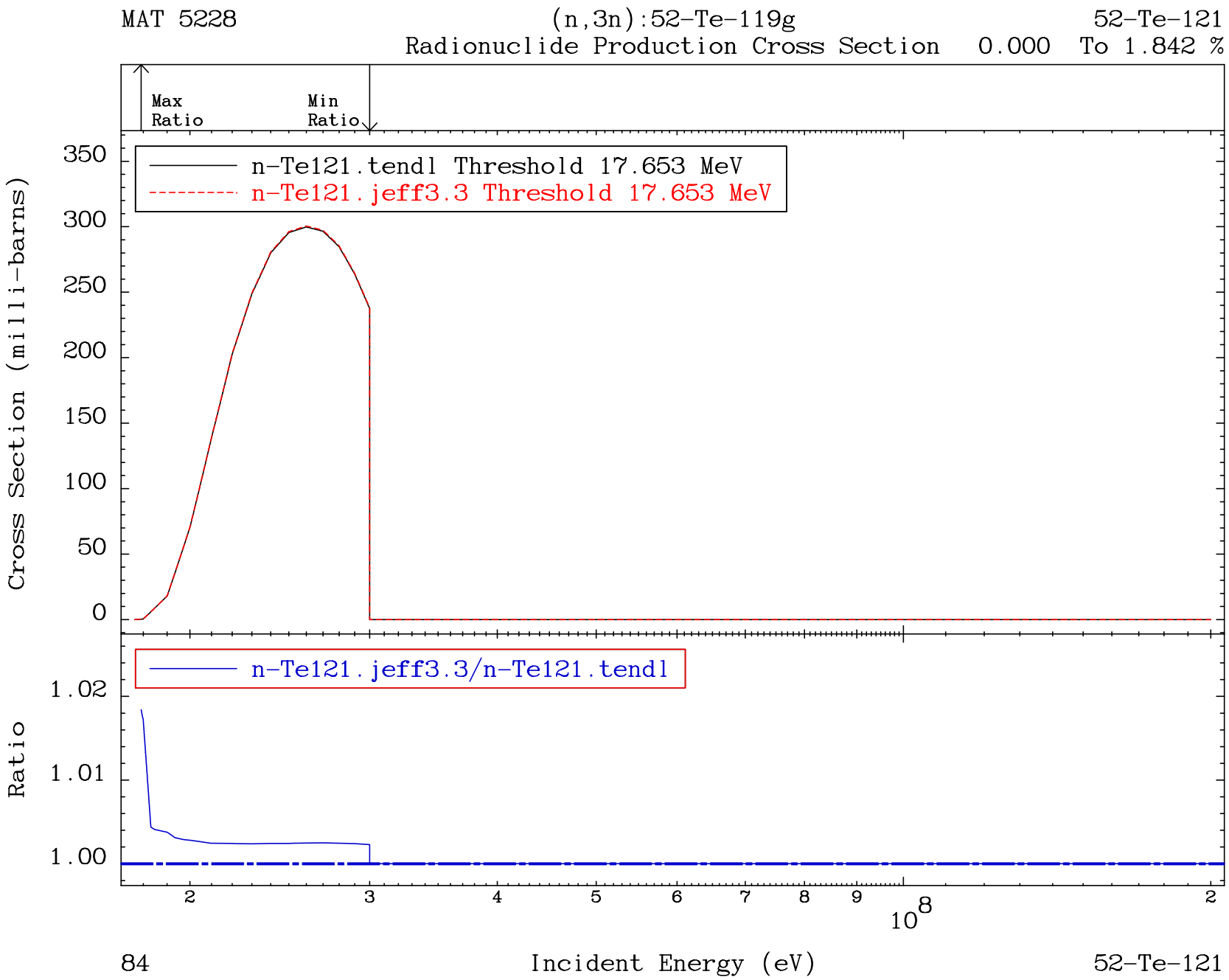

MAT 5228
Dpa disappearance (mt102 -120)
Cross Section
52-Te-121
-77.53 To 3311. %
Min Ratio
Max Ratio
n-Te121.tendl
n-Te121.jeff3.3
Cross Section (barns)
n-Te121.jeff3.3/n-Te121.tendl
Ratio
Incident Energy (eV)
79
52-Te-121

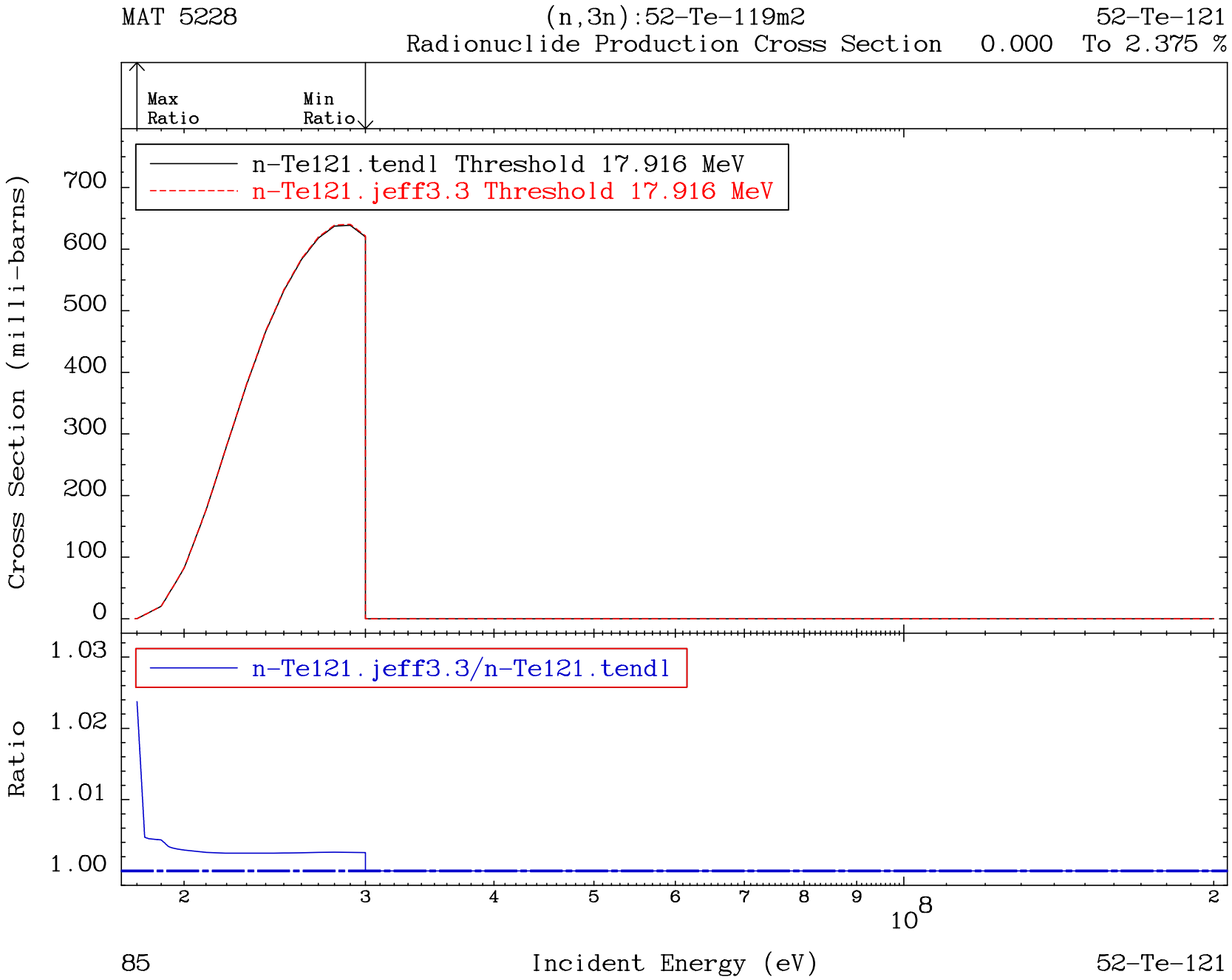

MAT 5228
Inelastic:52-Te-121g
52-Te-121
Radionuclide Production Cross Section
-0.131 To 0.000 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 213.96 keV
n-Te121.jeff3.3 Threshold 213.96 keV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
80
Incident Energy (eV)
52-Te-121

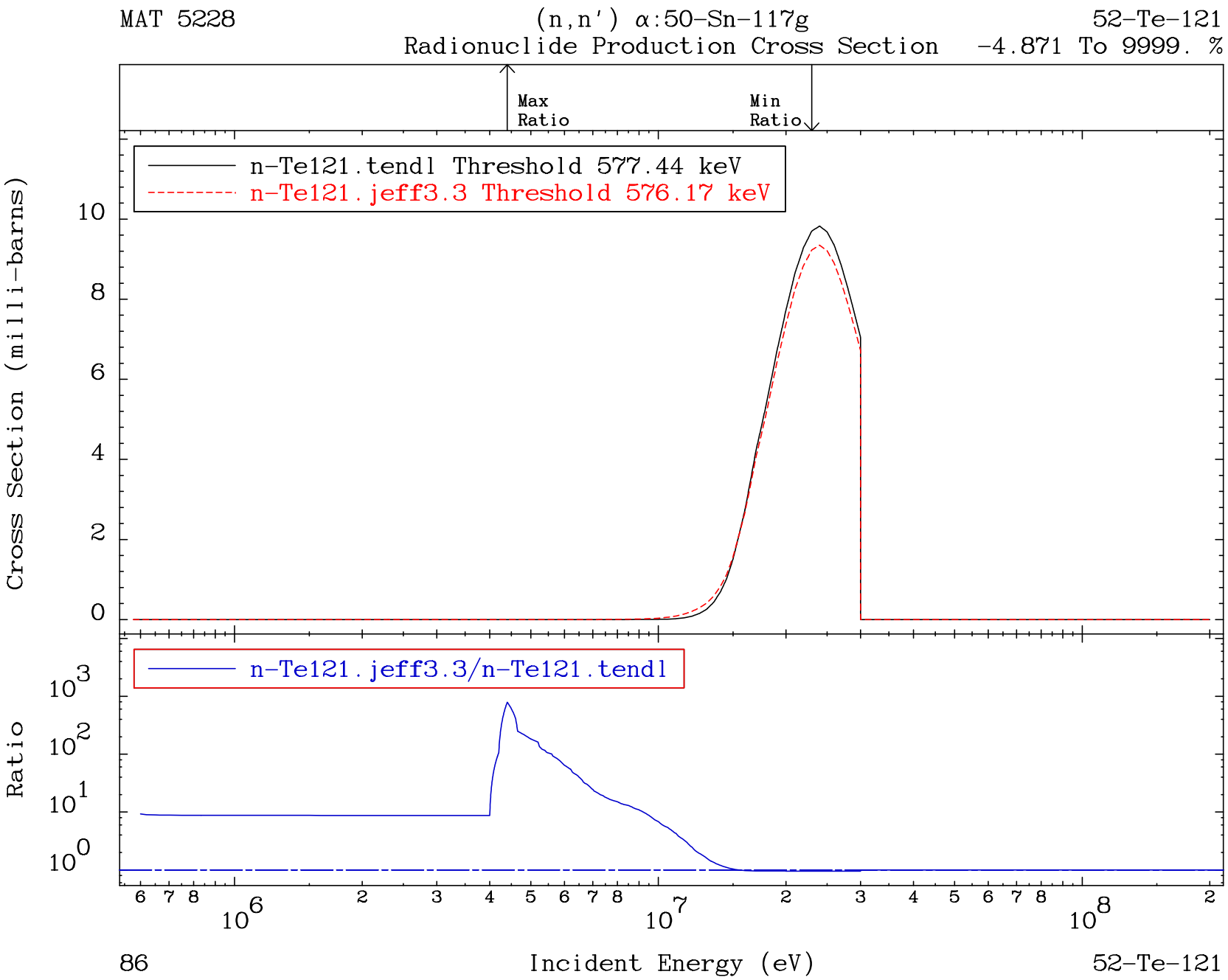

MAT 5228
Inelastic:52-Te-121m2
52-Te-121
Radionuclide Production Cross Section
-0.141 To 0.000 %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 296.43 keV
n-Te121.jeff3.3 Threshold 296.43 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
81
Incident Energy (eV)
52-Te-121

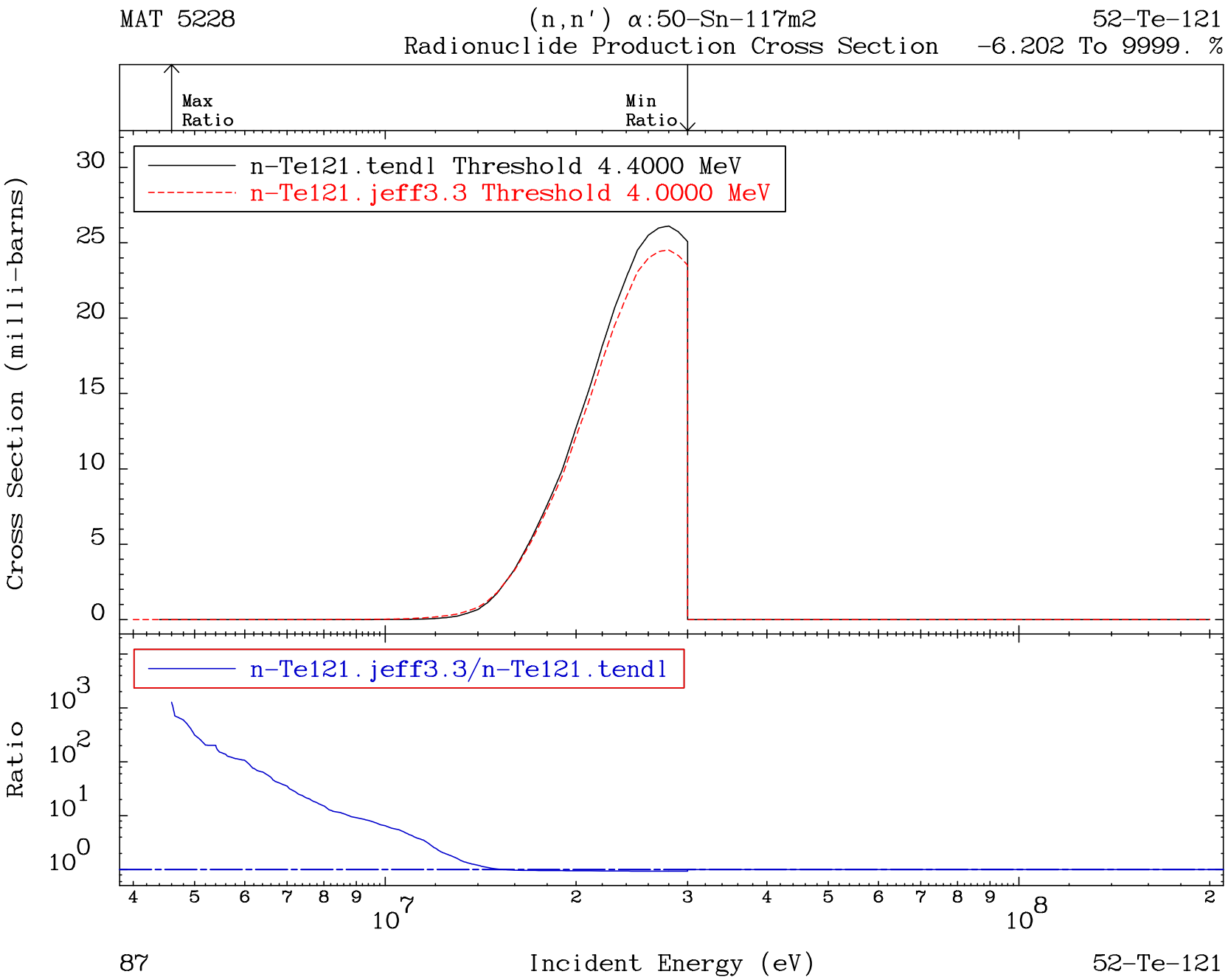

MAT 5228
(n,2n) d:51-Sb-118g
52-Te-121
Radionuclide Production Cross Section 0.000 To 4.796 %
Min
Ratio
n-Te121.tendl Threshold 21.938 MeV
n-Te121.jeff3.3 Threshold 21.938 MeV
Cross Section (micro-barns)
250
200
150
100
50
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.06
1.04
1.02
1.00
20
40
60
80
100
120
140
160
180
200
82
Incident Energy (MeV)
52-Te-121

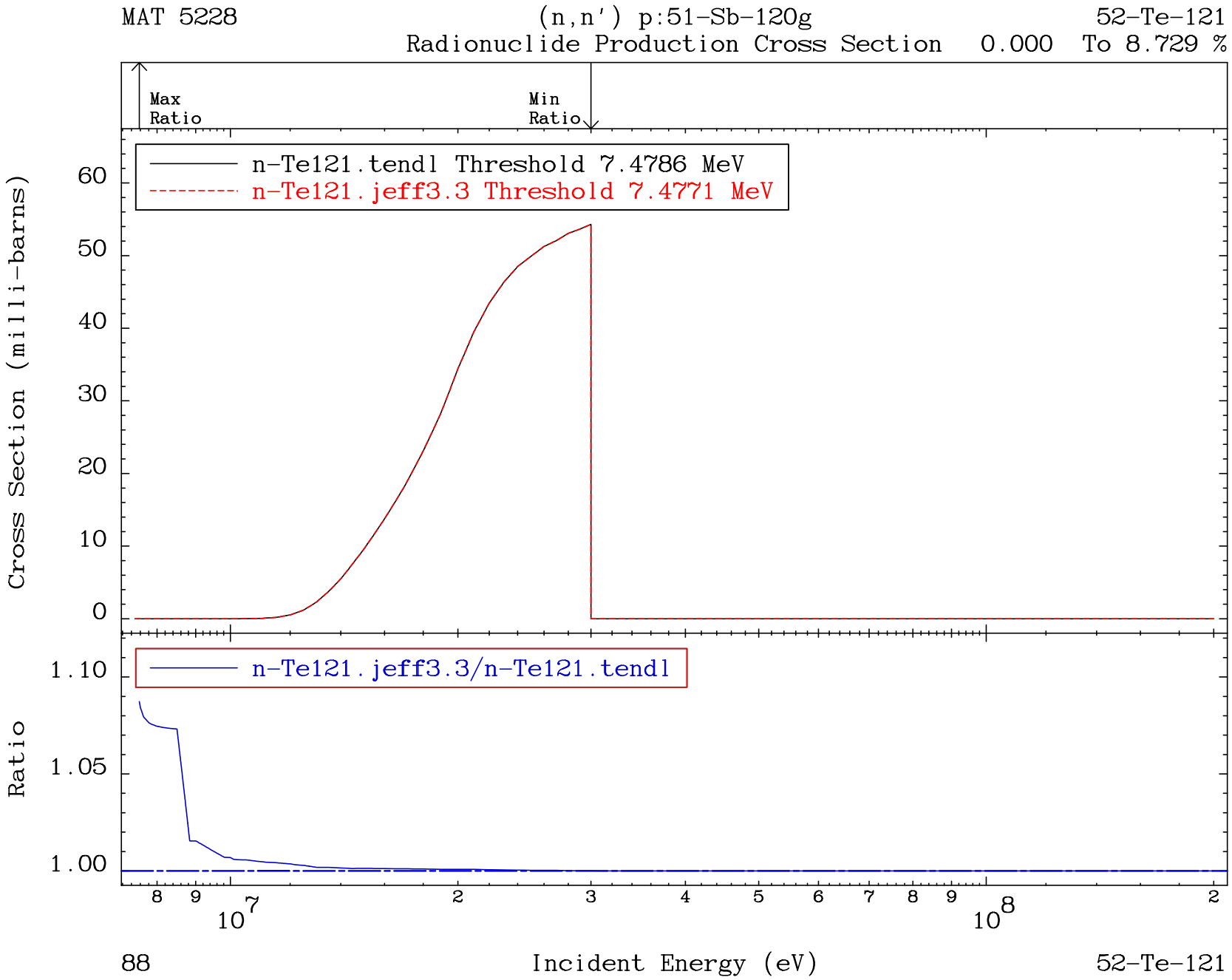

MAT 5228
(n,2n) d:51-Sb-118m7
52-Te-121
Radionuclide Production Cross Section 0.000 To 1.089 %
Min Ratio
n-Te121.tendl Threshold 22.190 MeV
n-Te121.jeff3.3 Threshold 22.190 MeV
Cross Section (micro-barns)
80
60
40
20
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.02
1.01
1.00
20
40
60
80
100
120
140
160
180
200
83
Incident Energy (MeV)
52-Te-121

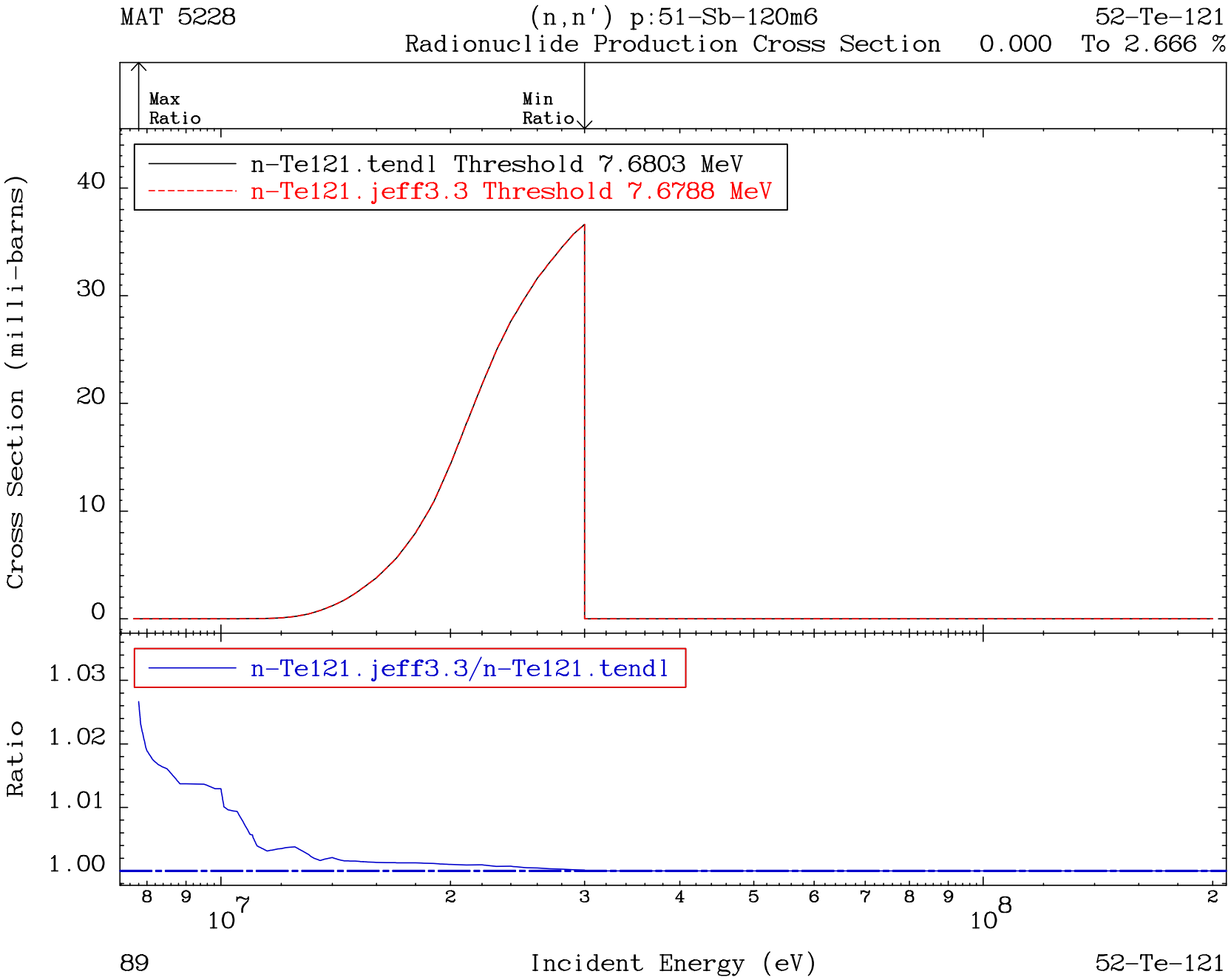

MAT 5228
(n,3n):52-Te-119g
52-Te-121
Radionuclide Production Cross Section 0.000 To 1.842 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 17.653 MeV
n-Te121.jeff3.3 Threshold 17.653 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
52-Te-121

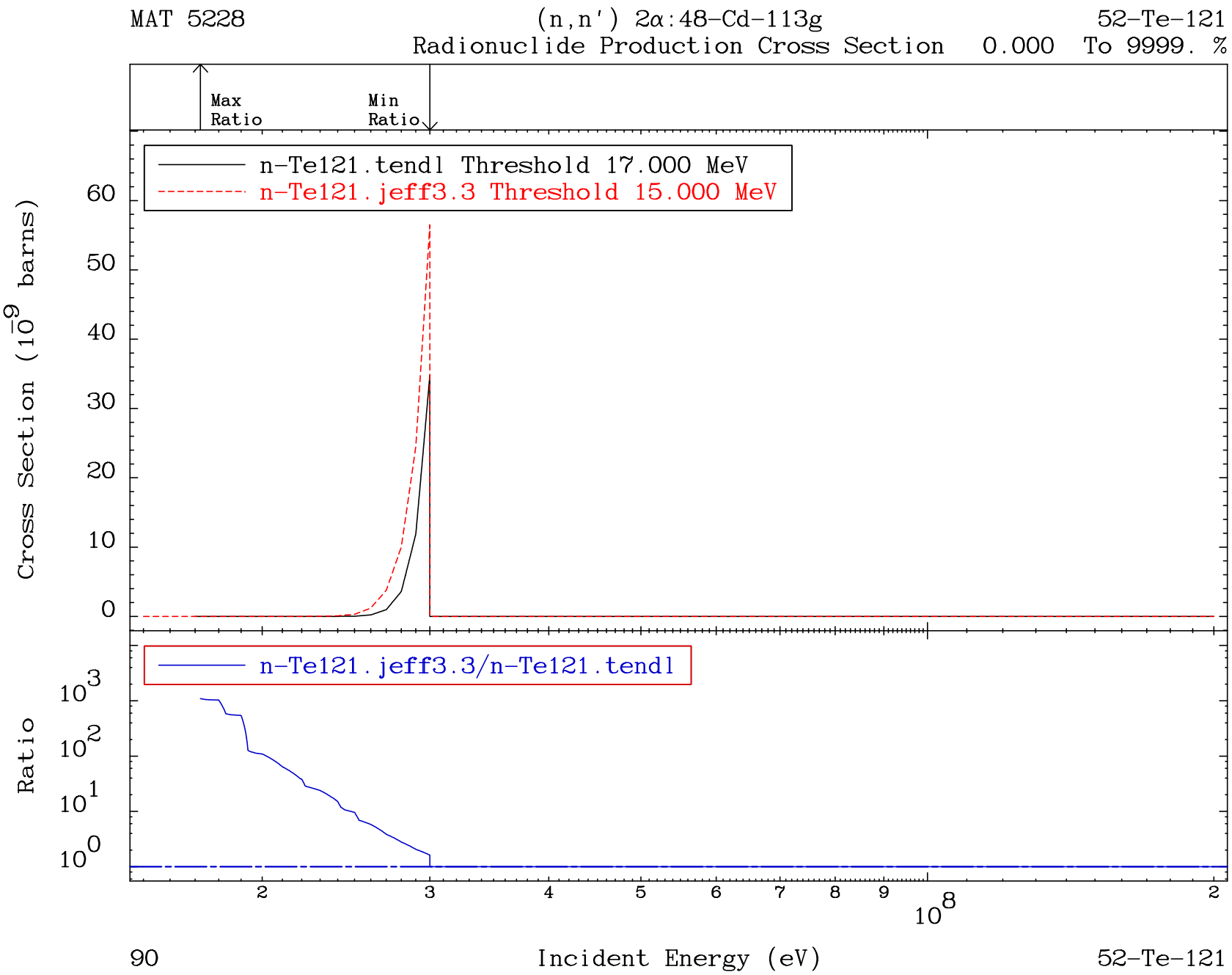

MAT 5228
(n,3n):52-Te-119m2
52-Te-121
Radionuclide Production Cross Section 0.000 To 2.375 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 17.916 MeV
n-Te121.jeff3.3 Threshold 17.916 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.03
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
52-Te-121

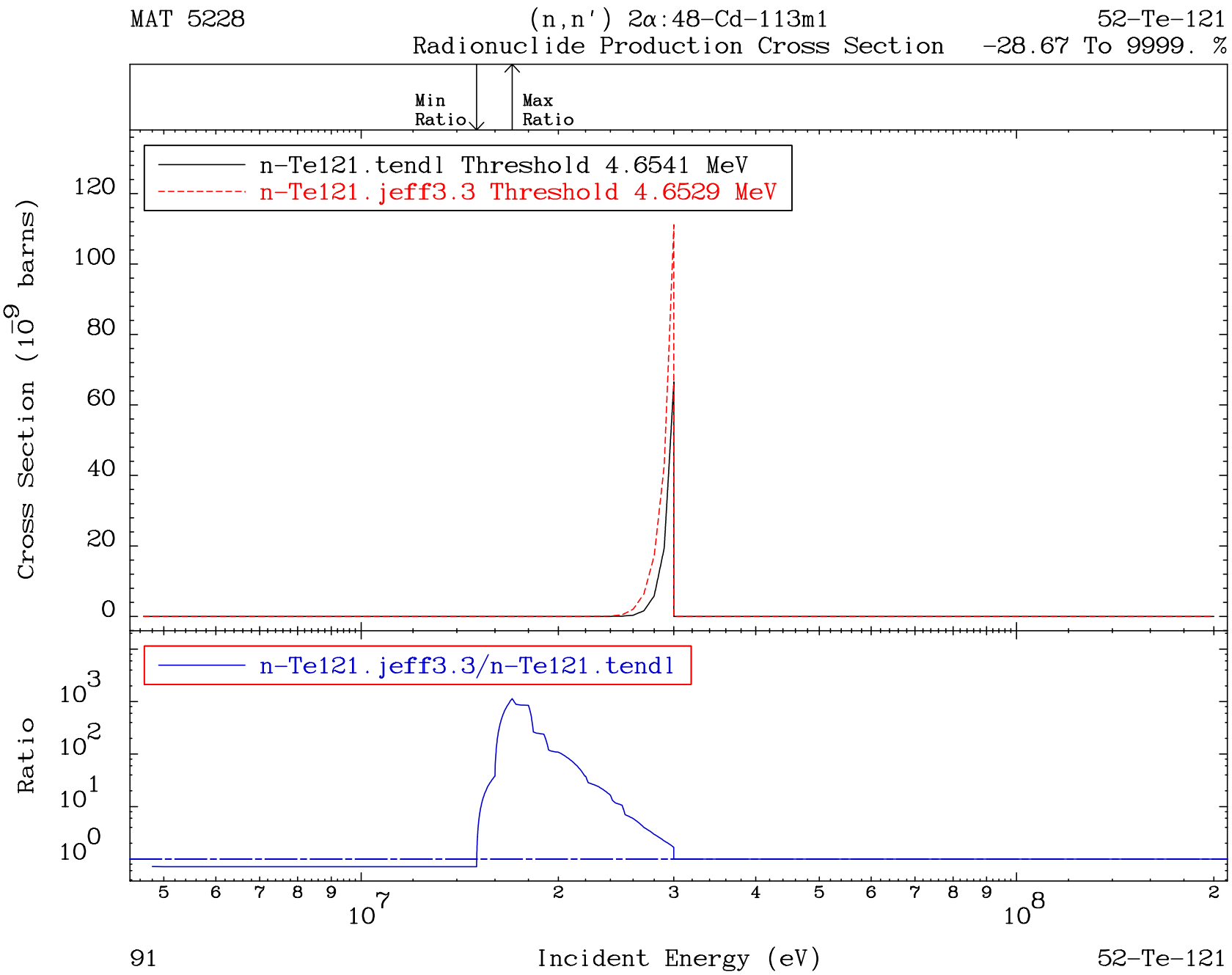

MAT 5228
(n,n') α:50-Sn-117g
52-Te-121
Radionuclide Production Cross Section -4.871 To 9999. %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 577.44 keV
n-Te121.jeff3.3 Threshold 576.17 keV
Cross Section (milli-barns)
0
2
4
6
8
10
n-Te121.jeff3.3/n-Te121.tendl
Ratio
10^0
10^1
10^2
10^3
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
86
Incident Energy (eV)
52-Te-121

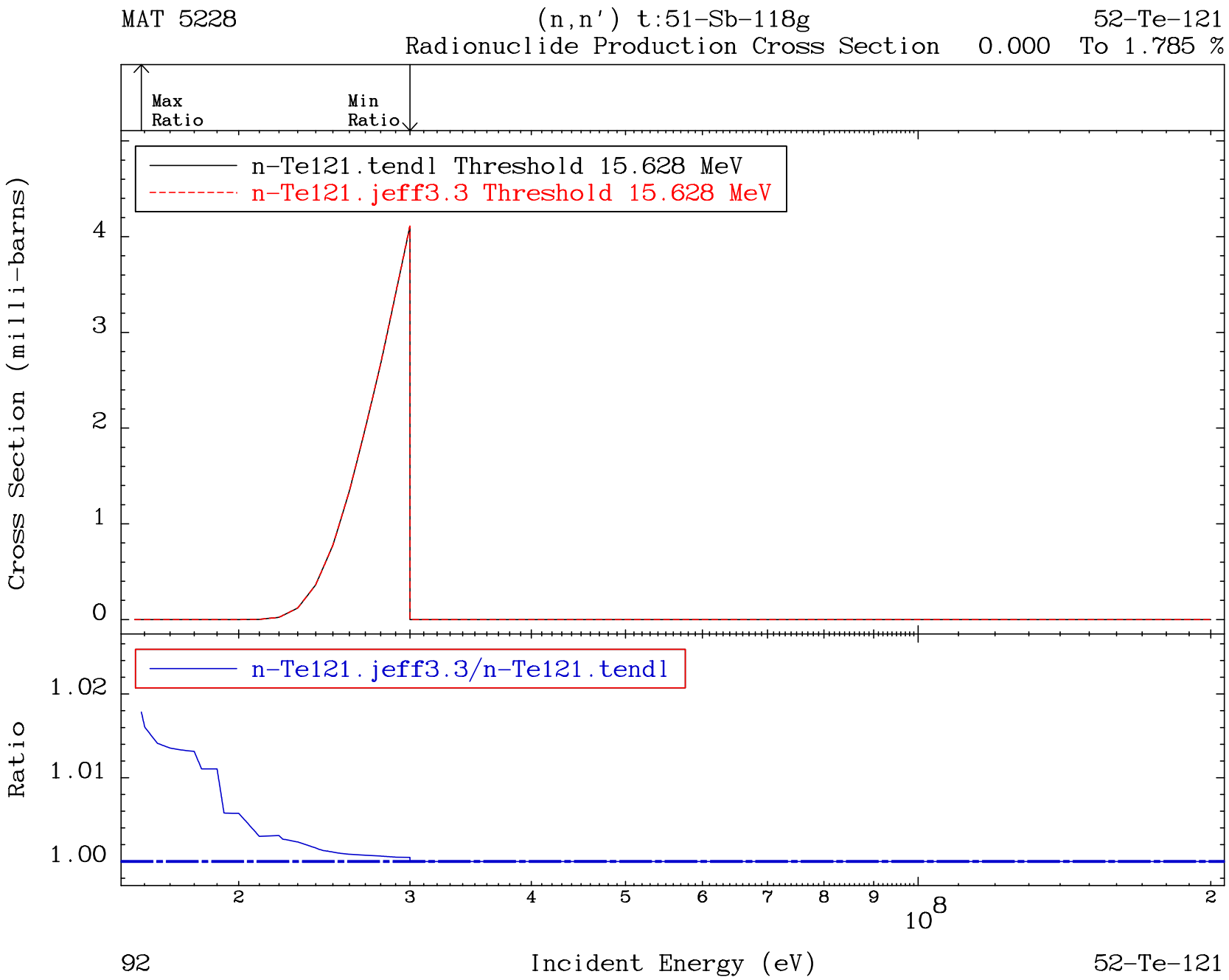

MAT 5228
(n,n') α:50-Sn-117m2
52-Te-121
Radionuclide Production Cross Section -6.202 To 9999. %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 4.4000 MeV
n-Te121.jeff3.3 Threshold 4.0000 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
10^3
10^2
10^1
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
87
Incident Energy (eV)
52-Te-121

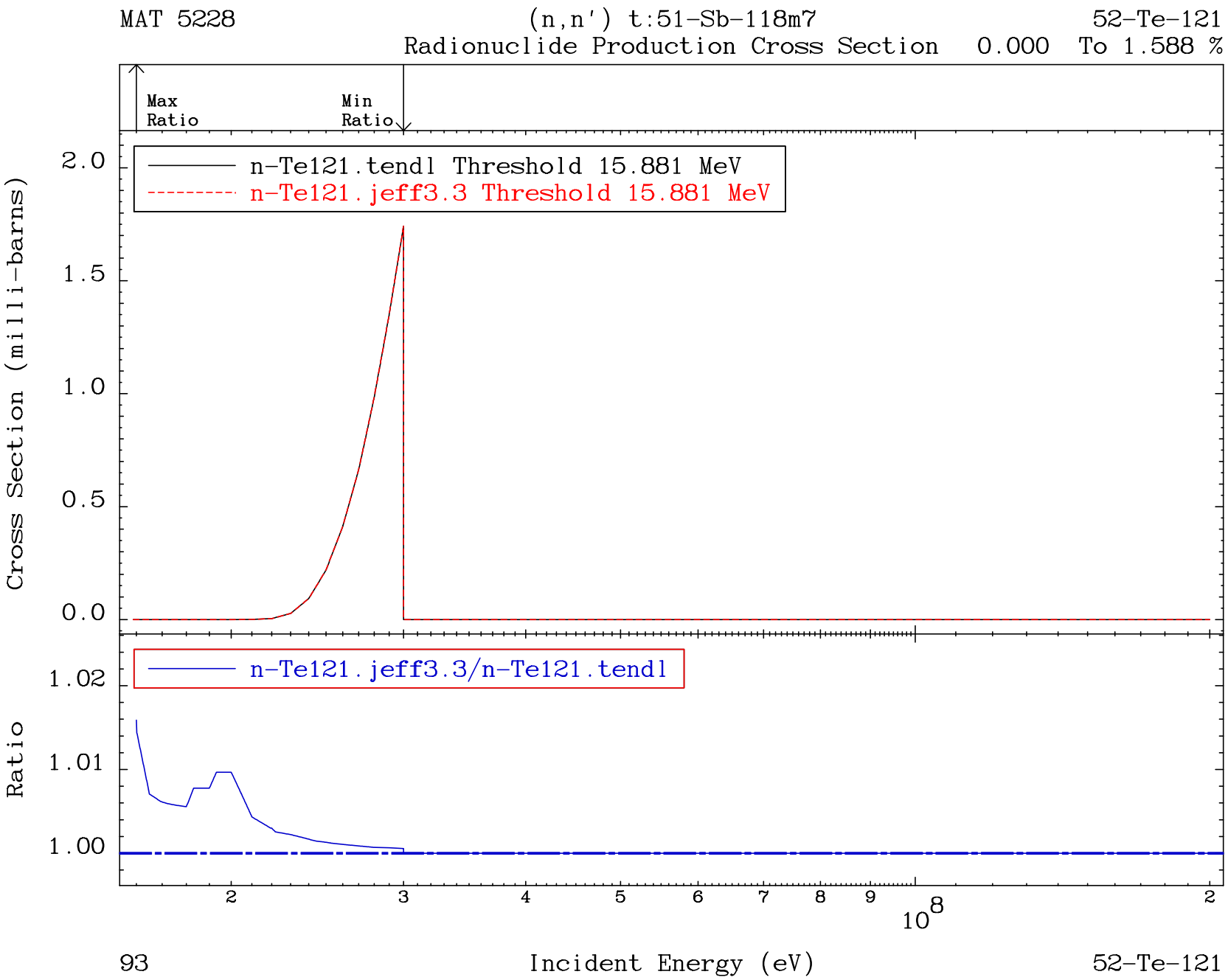

MAT 5228
(n,n') p:51-Sb-120g
52-Te-121
Radionuclide Production Cross Section 0.000 To 8.729 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 7.4786 MeV
n-Te121.jeff3.3 Threshold 7.4771 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.10
1.05
1.00
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
88
Incident Energy (eV)
52-Te-121

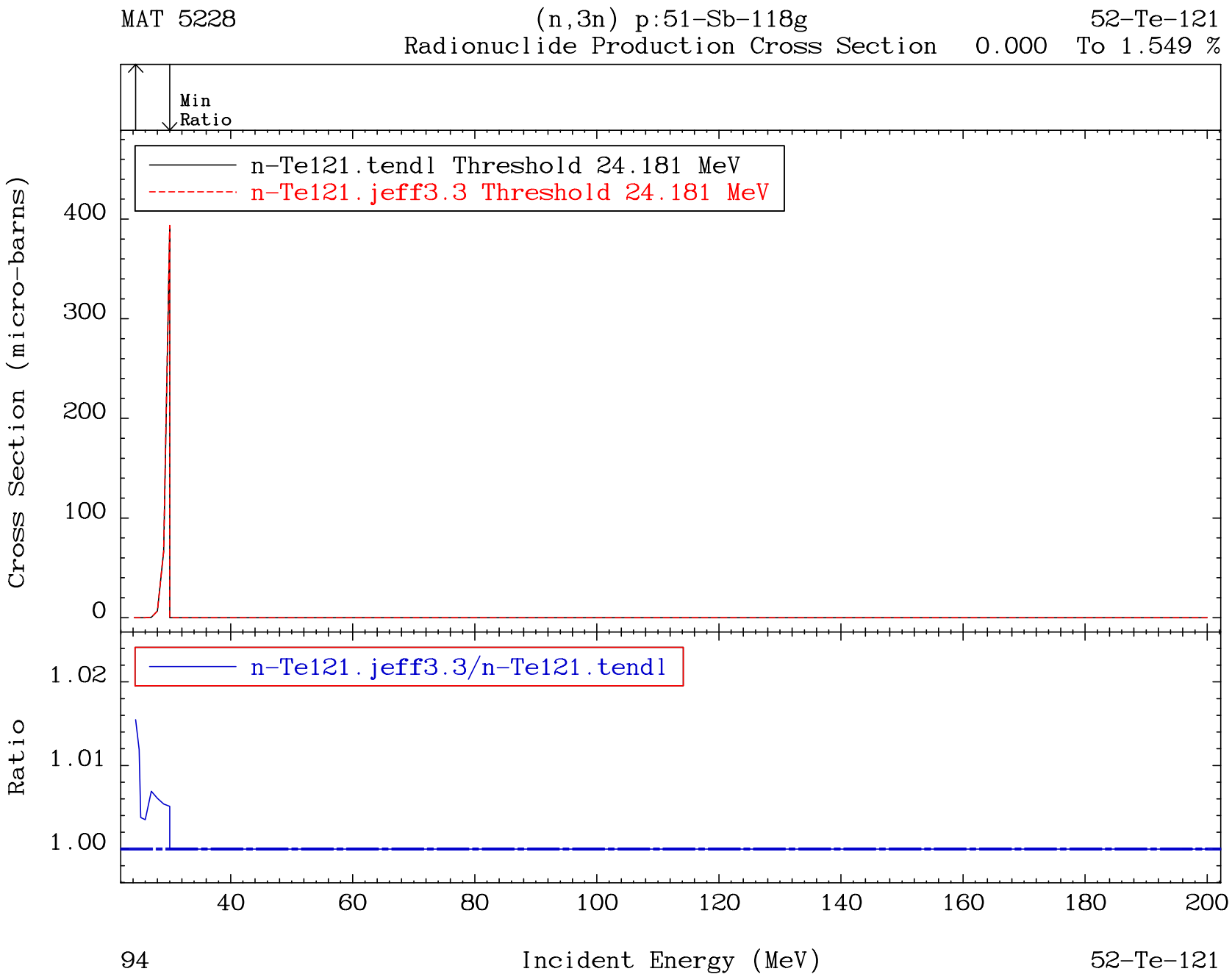

MAT 5228
(n,n') p:51-Sb-120m6
52-Te-121
Radionuclide Production Cross Section 0.000 To 2.666 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 7.6803 MeV
n-Te121.jeff3.3 Threshold 7.6788 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.03
1.02
1.01
1.00
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
89
Incident Energy (eV)
52-Te-121

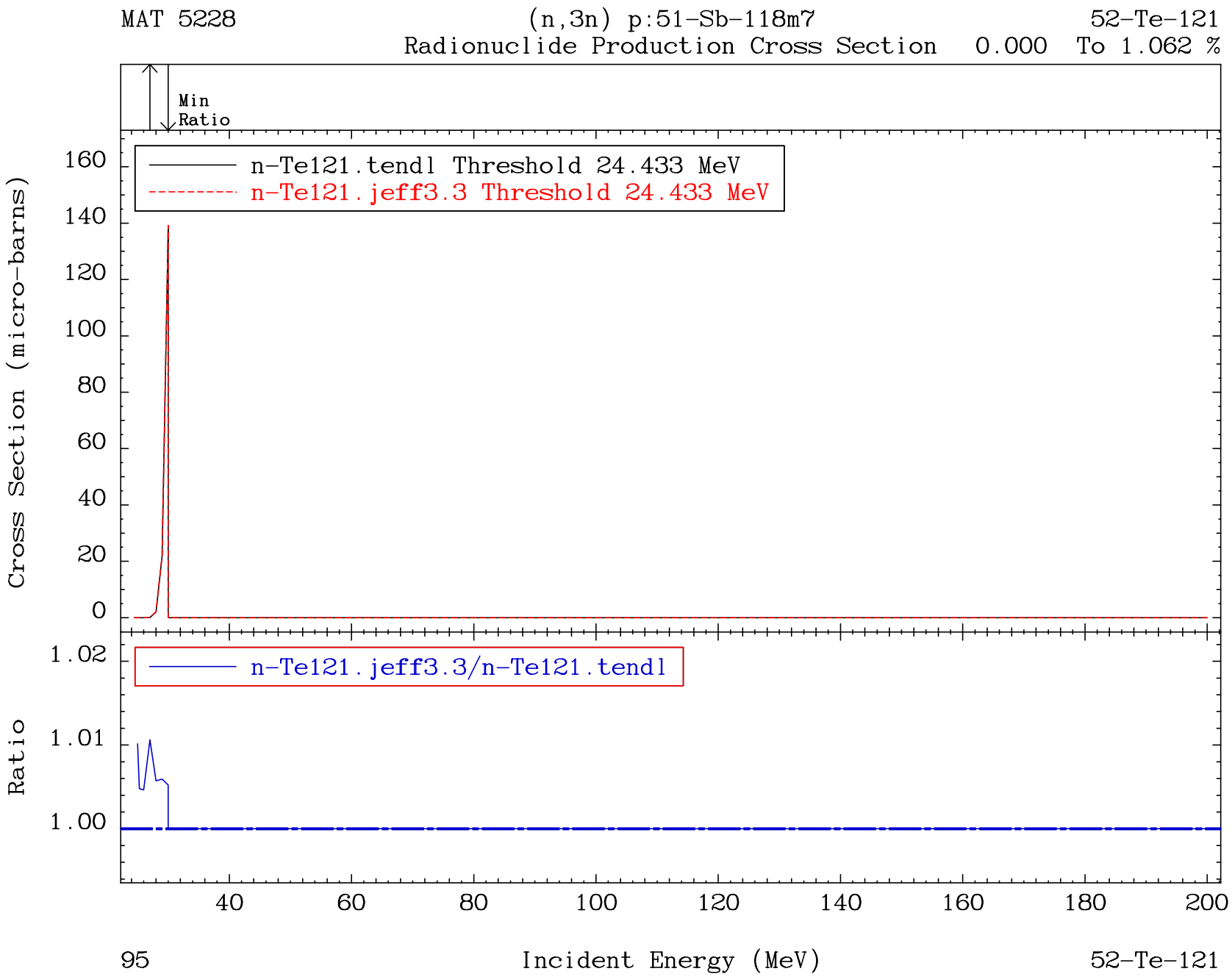

MAT 5228
(n,n') 2α:48-Cd-113g
52-Te-121
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 17.000 MeV
n-Te121.jeff3.3 Threshold 15.000 MeV
Cross Section (10^{-9} barns)
60
50
40
30
20
10
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
90
Incident Energy (eV)
52-Te-121

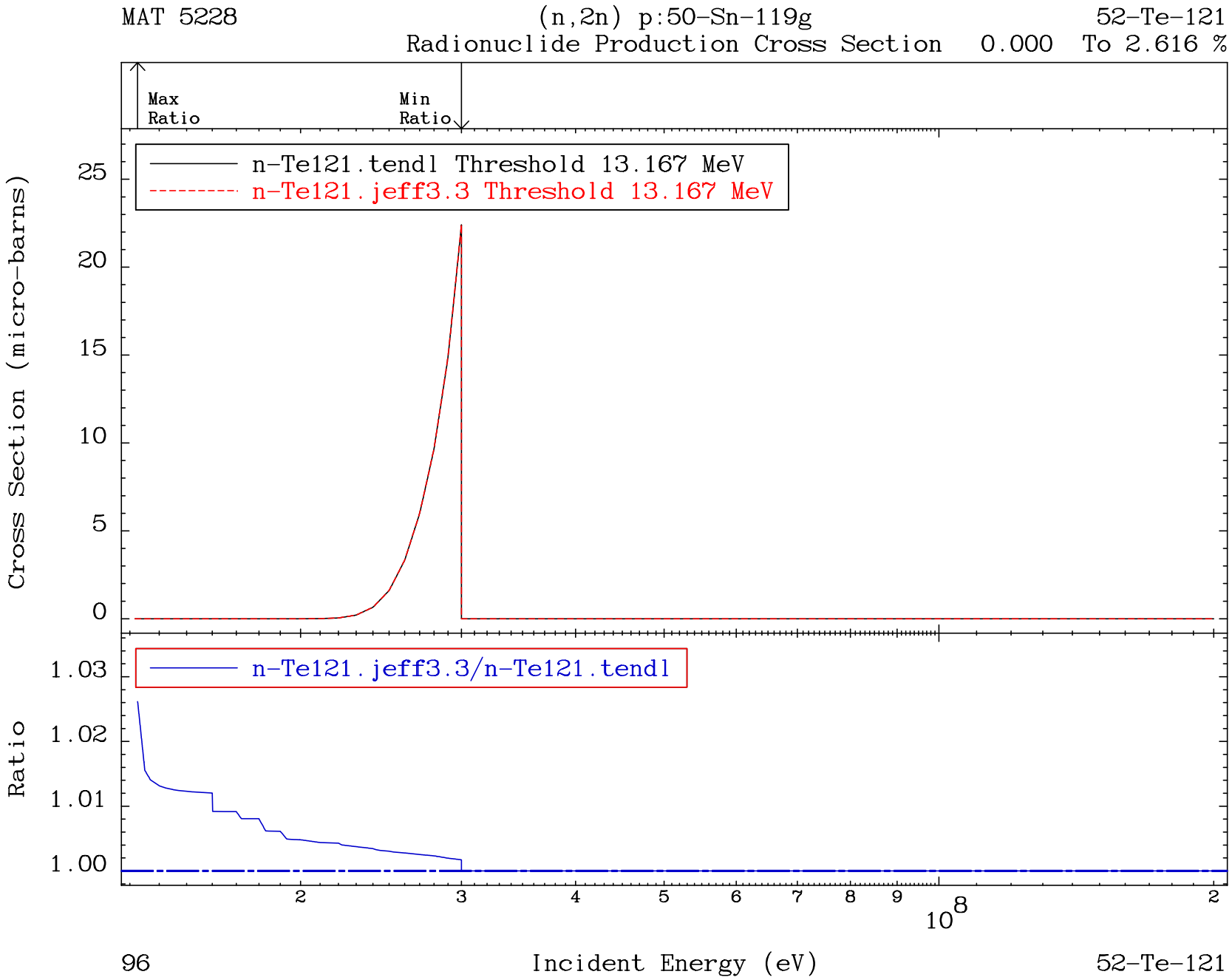

MAT 5228
(n,n') 2α:48-Cd-113m1
52-Te-121
Radionuclide Production Cross Section -28.67 To 9999. %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 4.6541 MeV
n-Te121.jeff3.3 Threshold 4.6529 MeV
Cross Section (10^{-9} barns)
120
100
80
60
40
20
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
10^3
10^2
10^1
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
91
Incident Energy (eV)
52-Te-121

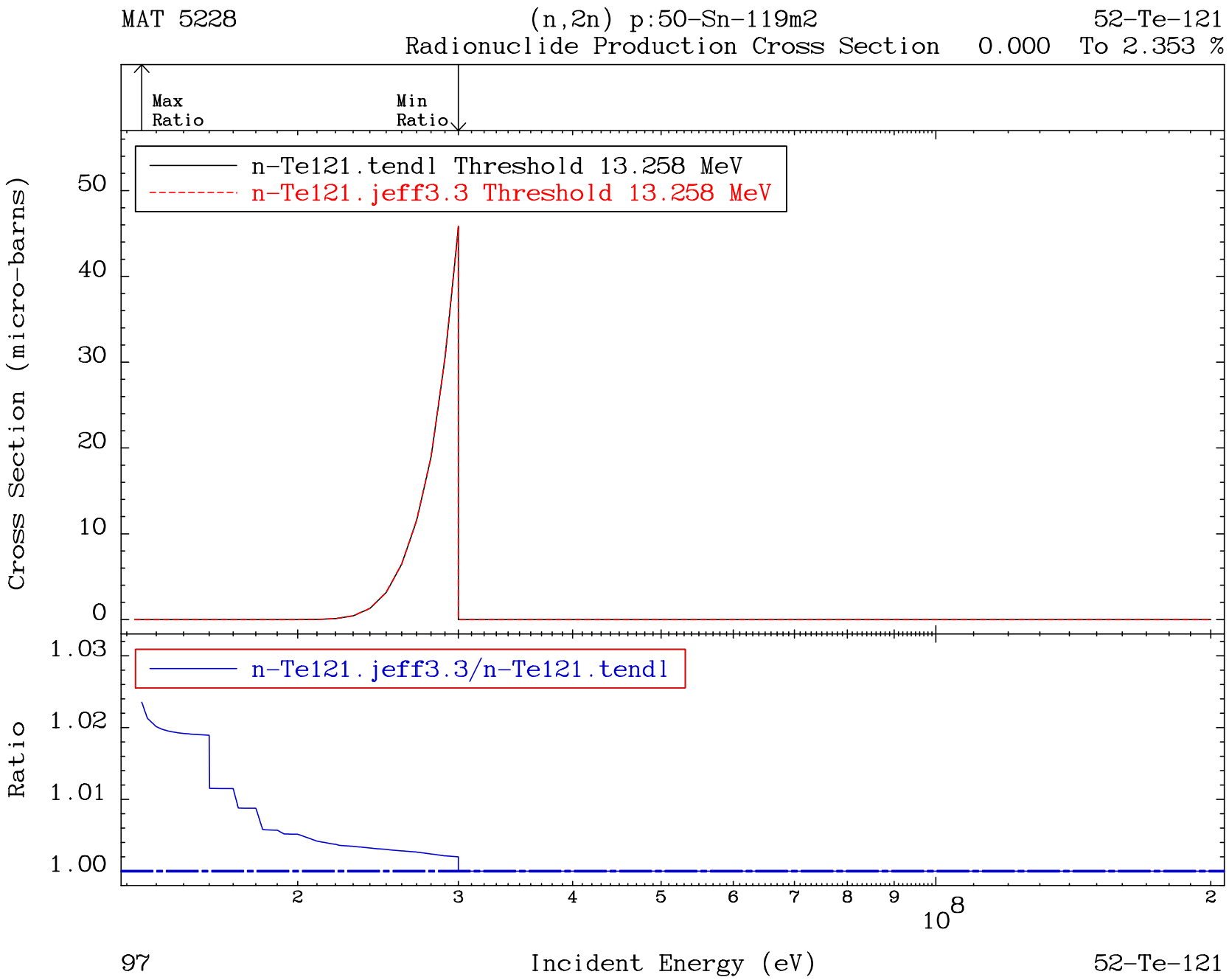

MAT 5228
(n,n') t:51-Sb-118g
52-Te-121
Radionuclide Production Cross Section 0.000 To 1.785 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 15.628 MeV
n-Te121.jeff3.3 Threshold 15.628 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.00
1.01
1.02
2
3
4
5
6
7
8
9
10^8
2
92
Incident Energy (eV)
52-Te-121

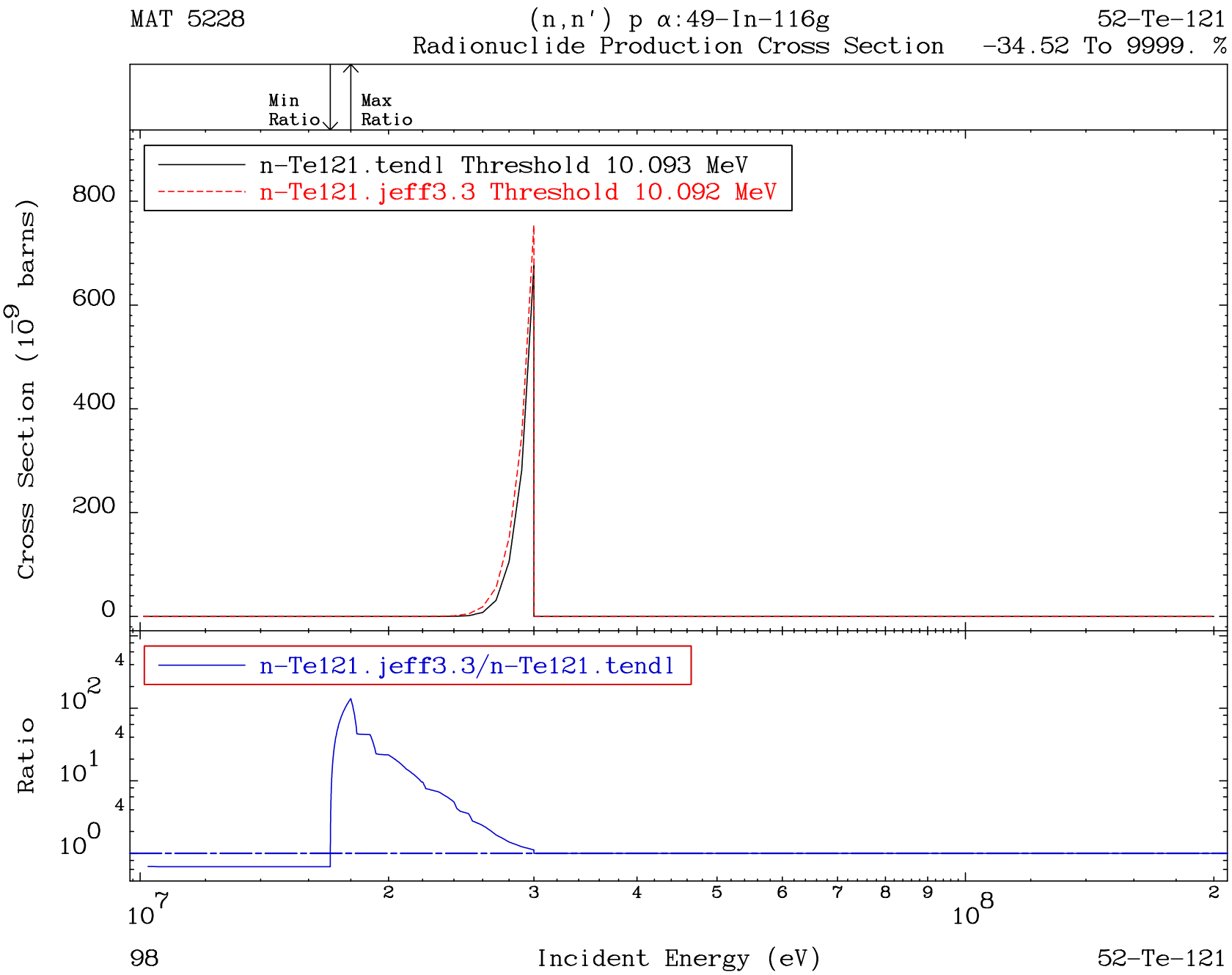

MAT 5228
(n,n') t:51-Sb-118m7
52-Te-121
Radionuclide Production Cross Section 0.000 To 1.588 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 15.881 MeV
n-Te121.jeff3.3 Threshold 15.881 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
93
Incident Energy (eV)
52-Te-121

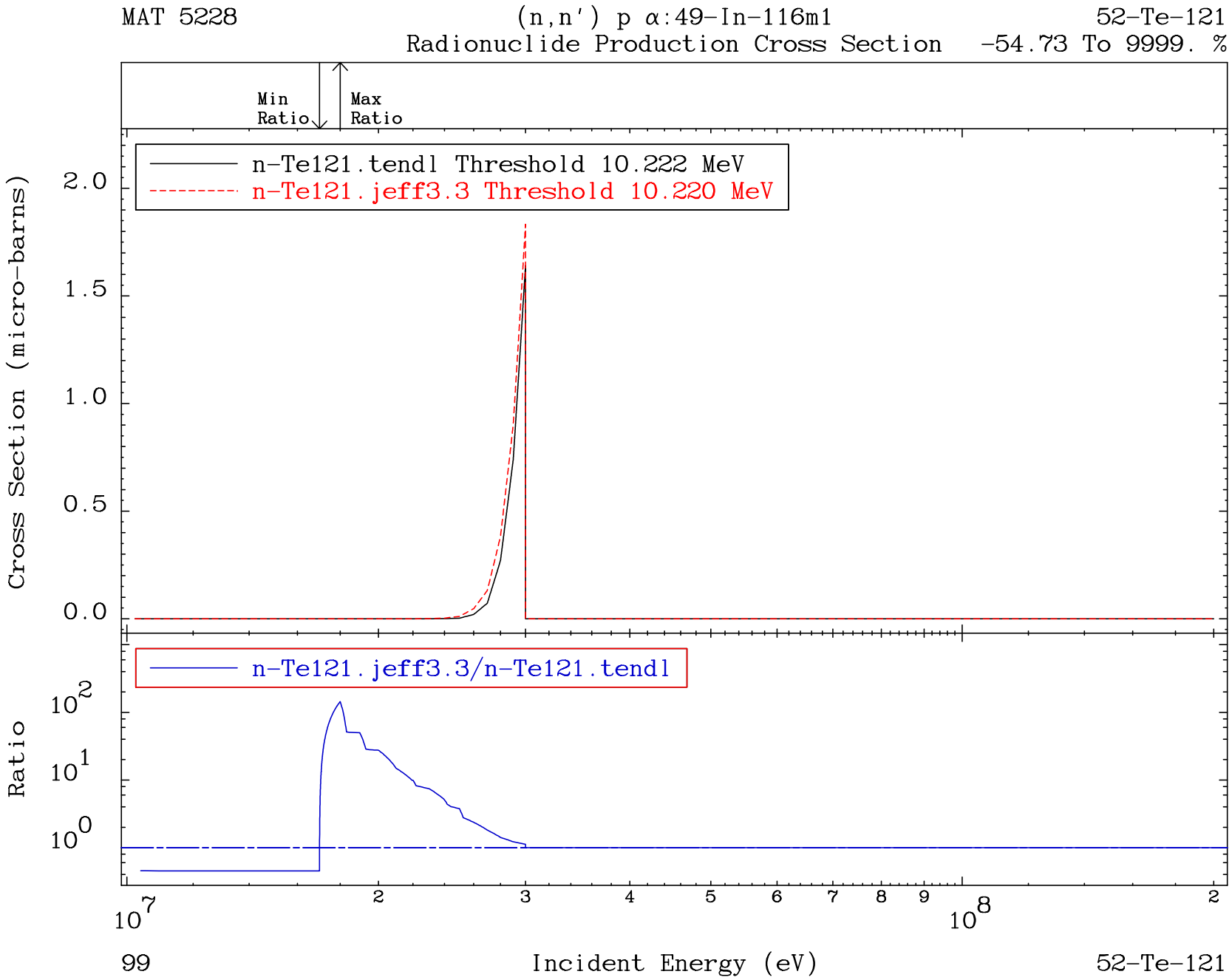

MAT 5228
(n,3n) p:51-Sb-118g
52-Te-121
Radionuclide Production Cross Section 0.000 To 1.549 %
Min
Ratio
n-Te121.tendl Threshold 24.181 MeV
n-Te121.jeff3.3 Threshold 24.181 MeV
Cross Section (micro-barns)
400
300
200
100
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.02
1.01
1.00
40
60
80
100
120
140
160
180
200
94
Incident Energy (MeV)
52-Te-121

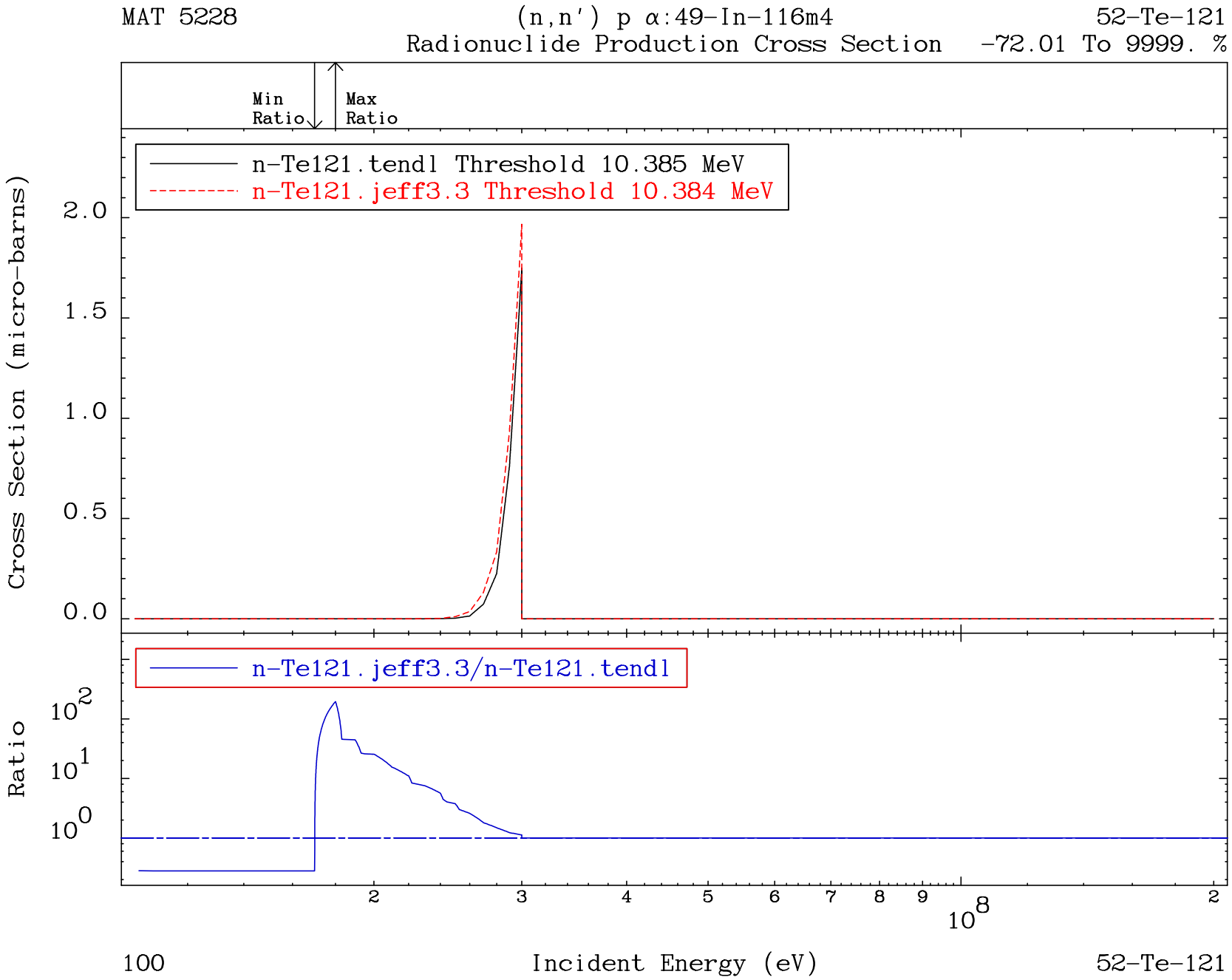

MAT 5228
(n,3n) p:51-Sb-118m7
52-Te-121
Radionuclide Production Cross Section 0.000 To 1.062 %
Min Ratio
n-Te121.tendl Threshold 24.433 MeV
n-Te121.jeff3.3 Threshold 24.433 MeV
Cross Section (micro-barns)
160
140
120
100
80
60
40
20
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.02
1.01
1.00
40
60
80
100
120
140
160
180
200
95
Incident Energy (MeV)
52-Te-121

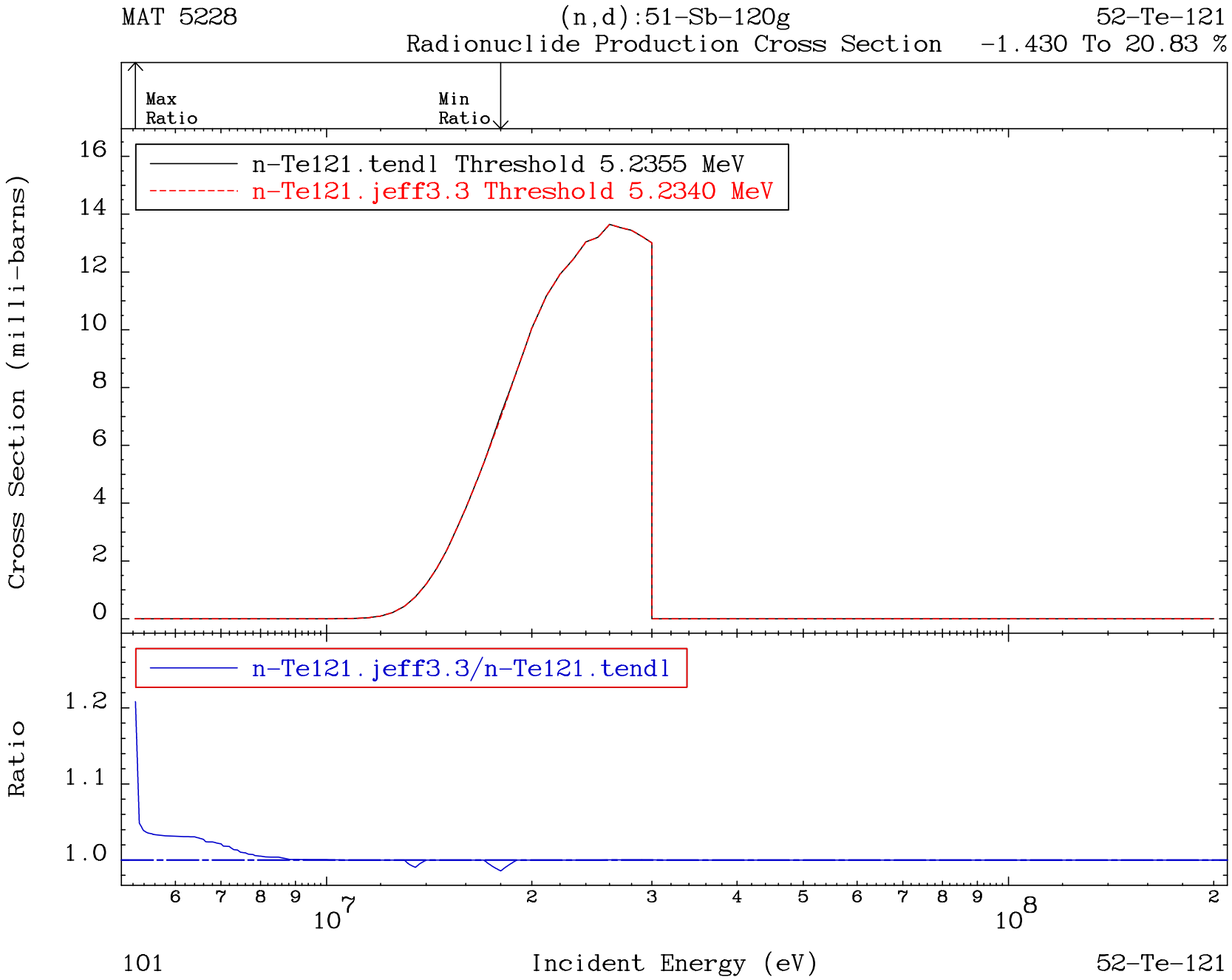

MAT 5228
(n,2n) p:50-Sn-119g
52-Te-121
Radionuclide Production Cross Section 0.000 To 2.616 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 13.167 MeV
n-Te121.jeff3.3 Threshold 13.167 MeV
Cross Section (micro-barns)
25
20
15
10
5
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.03
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
96
Incident Energy (eV)
52-Te-121

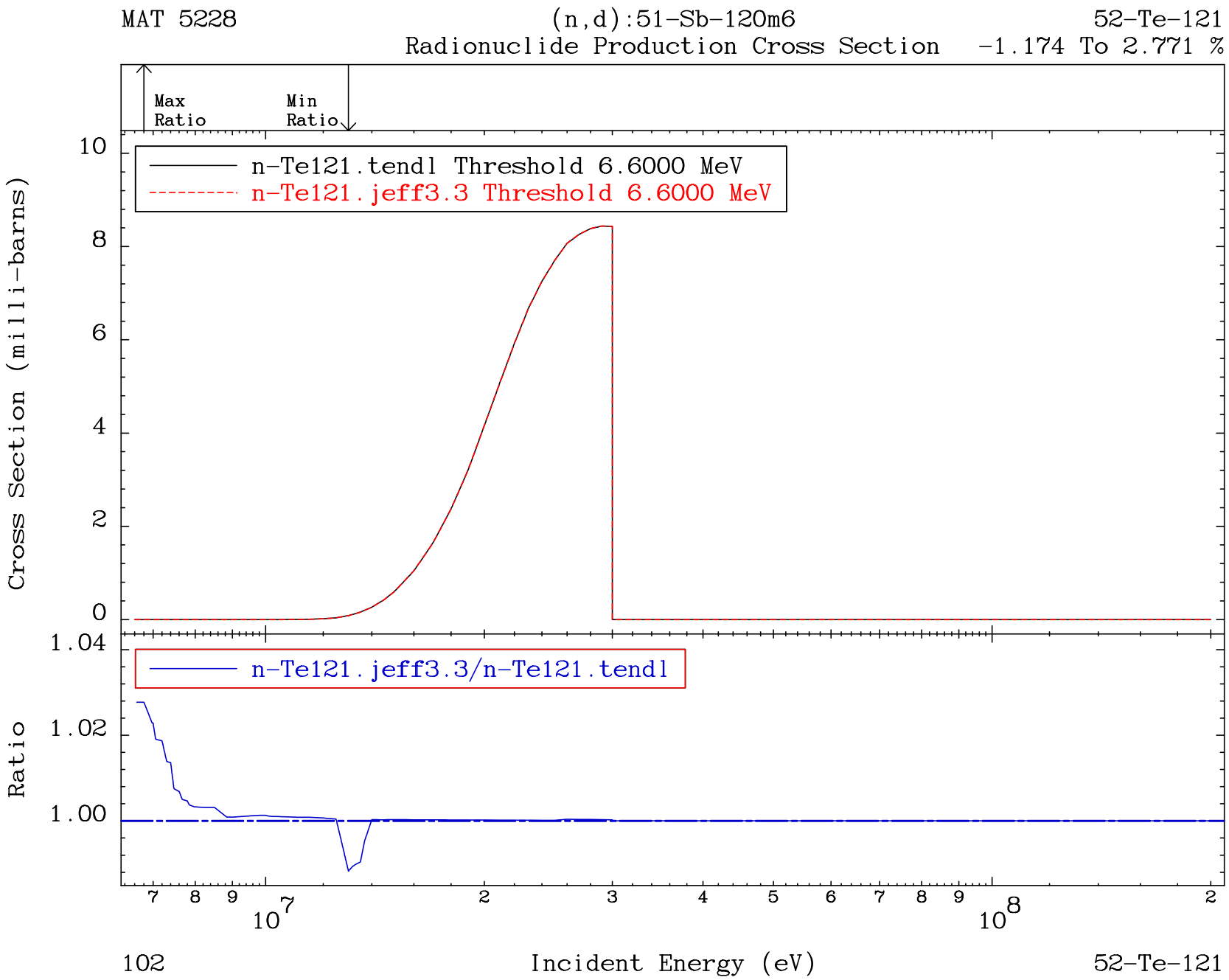

MAT 5228
(n,2n) p:50-Sn-119m2
52-Te-121
Radionuclide Production Cross Section 0.000 To 2.353 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 13.258 MeV
n-Te121.jeff3.3 Threshold 13.258 MeV
Cross Section (micro-barns)
50
40
30
20
10
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.03
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
97
Incident Energy (eV)
52-Te-121

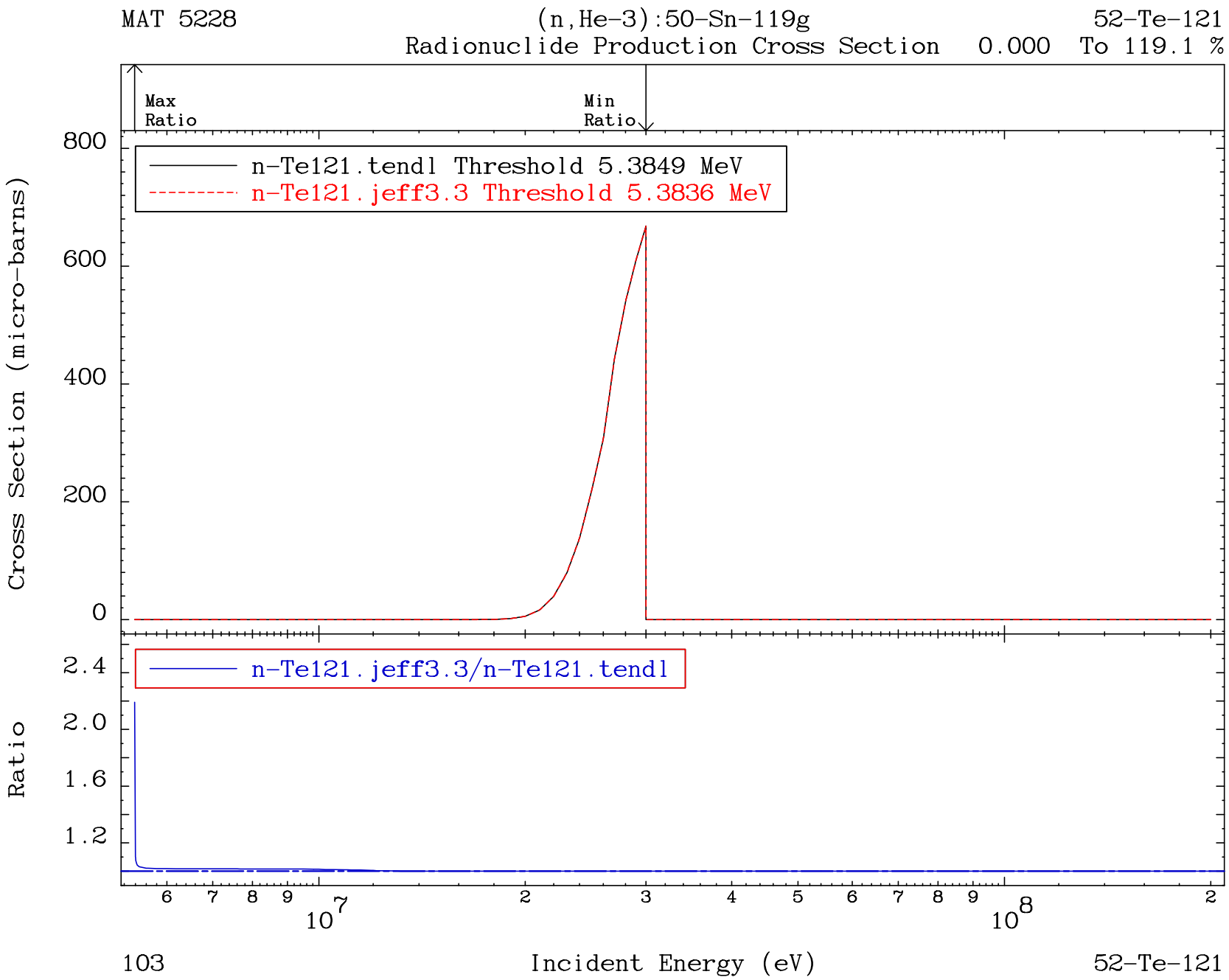

MAT 5228
(n,n') p α:49-In-116g
52-Te-121
Radionuclide Production Cross Section -34.52 To 9999. %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 10.093 MeV
n-Te121.jeff3.3 Threshold 10.092 MeV
Cross Section (10^{-9} barns)
800
600
400
200
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
10^{2}
10^{1}
10^{0}
10^{7}
2
3
4
5
6
7
8
9
10^{8}
2
98
Incident Energy (eV)
52-Te-121

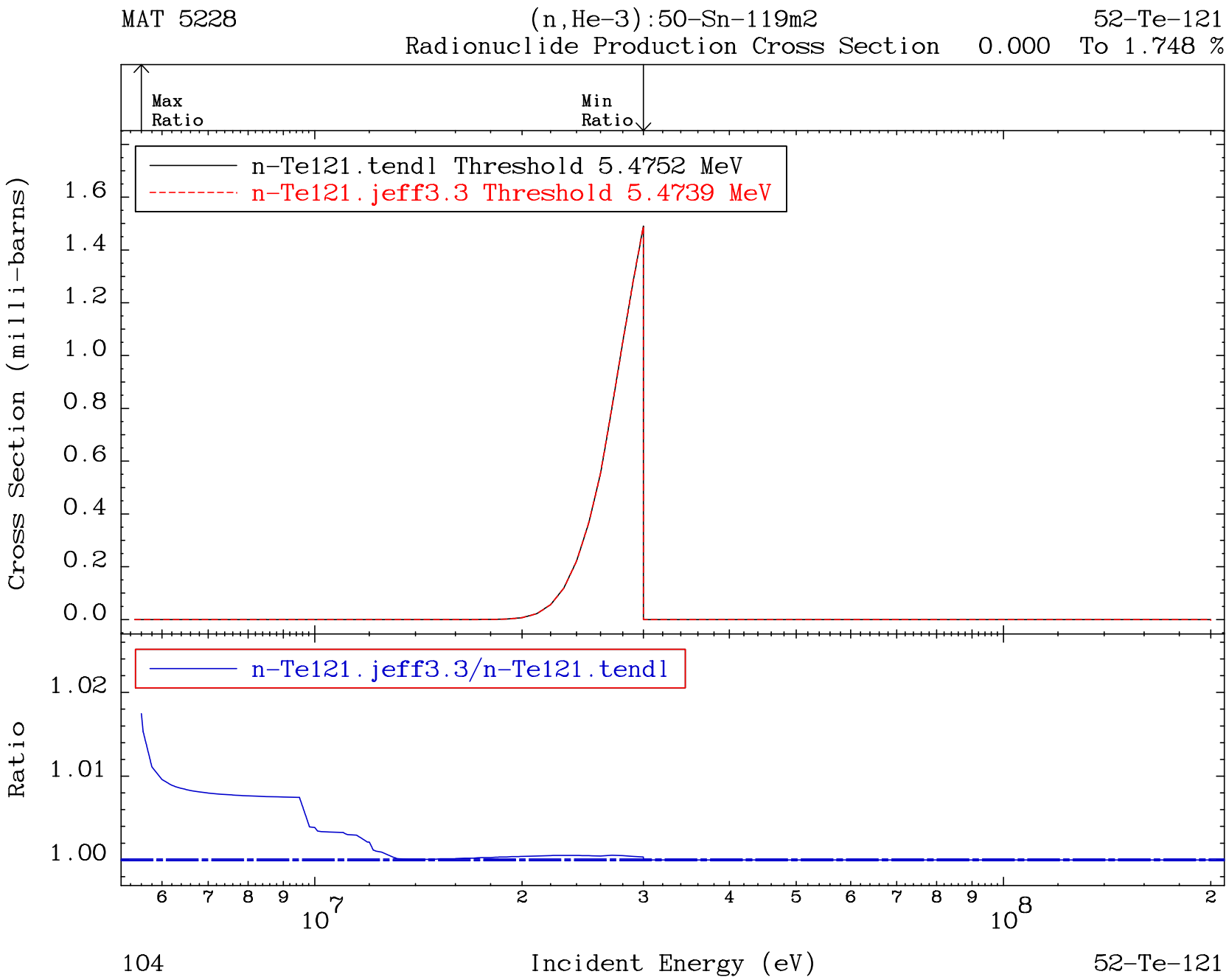

MAT 5228
(n,n') p α:49-In-116m1
52-Te-121
Radionuclide Production Cross Section -54.73 To 9999. %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 10.222 MeV
n-Te121.jeff3.3 Threshold 10.220 MeV
Cross Section (micro-barns)
2.0
1.5
1.0
0.5
0.0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
10^2
10^1
10^0
10^7
2
3
4
5
6
7
8
9
10^8
2
99
Incident Energy (eV)
52-Te-121

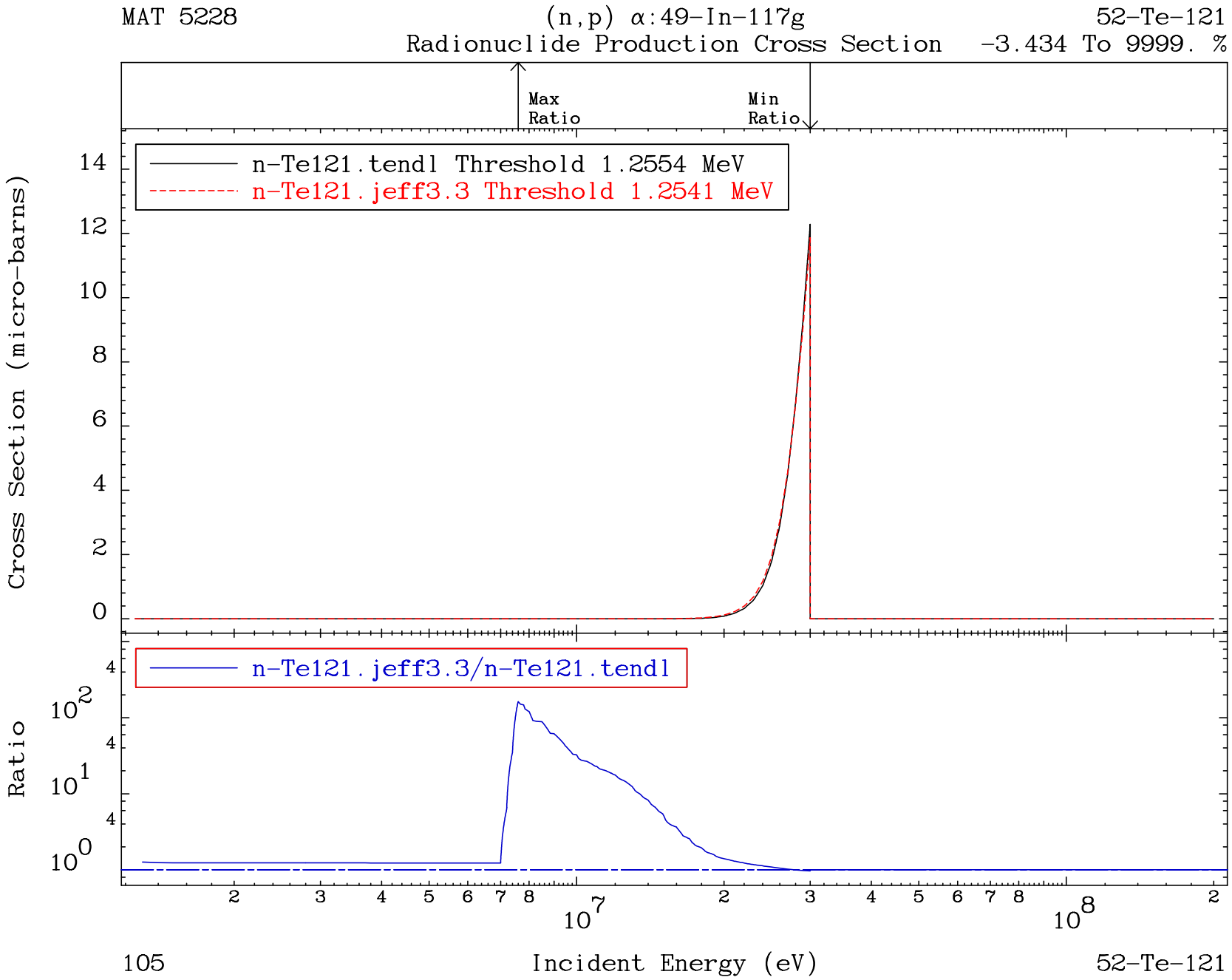

MAT 5228
(n,n') p α:49-In-116m4
52-Te-121
Radionuclide Production Cross Section -72.01 To 9999. %
Min Ratio
Max Ratio
n-Te121.tendl Threshold 10.385 MeV
n-Te121.jeff3.3 Threshold 10.384 MeV
Cross Section (micro-barns)
2.0
1.5
1.0
0.5
0.0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
100
Incident Energy (eV)
52-Te-121

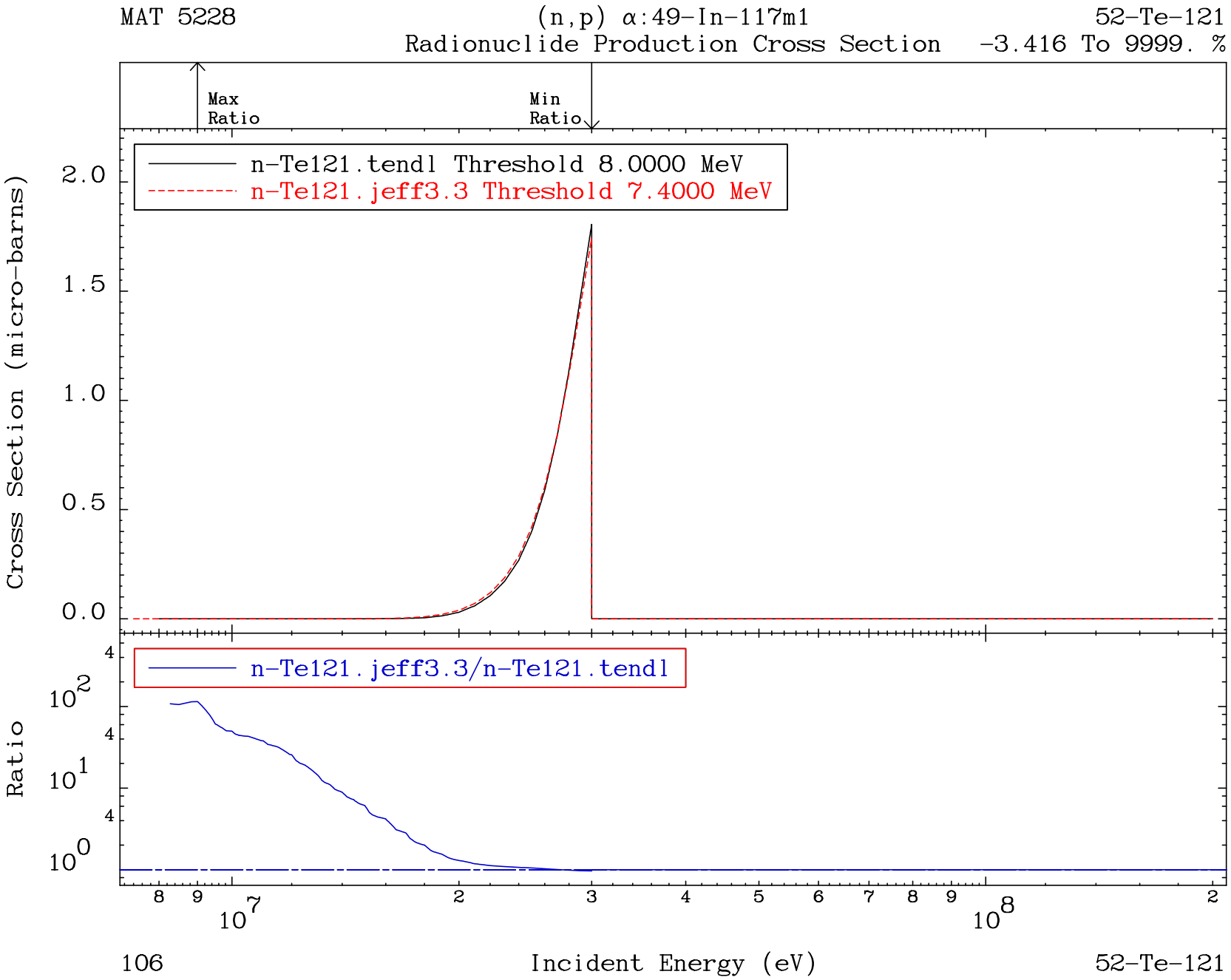

MAT 5228
(n,d):51-Sb-120g
52-Te-121
Radionuclide Production Cross Section -1.430 To 20.83 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 5.2355 MeV
n-Te121.jeff3.3 Threshold 5.2340 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.2
1.1
1.0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
101
Incident Energy (eV)
52-Te-121

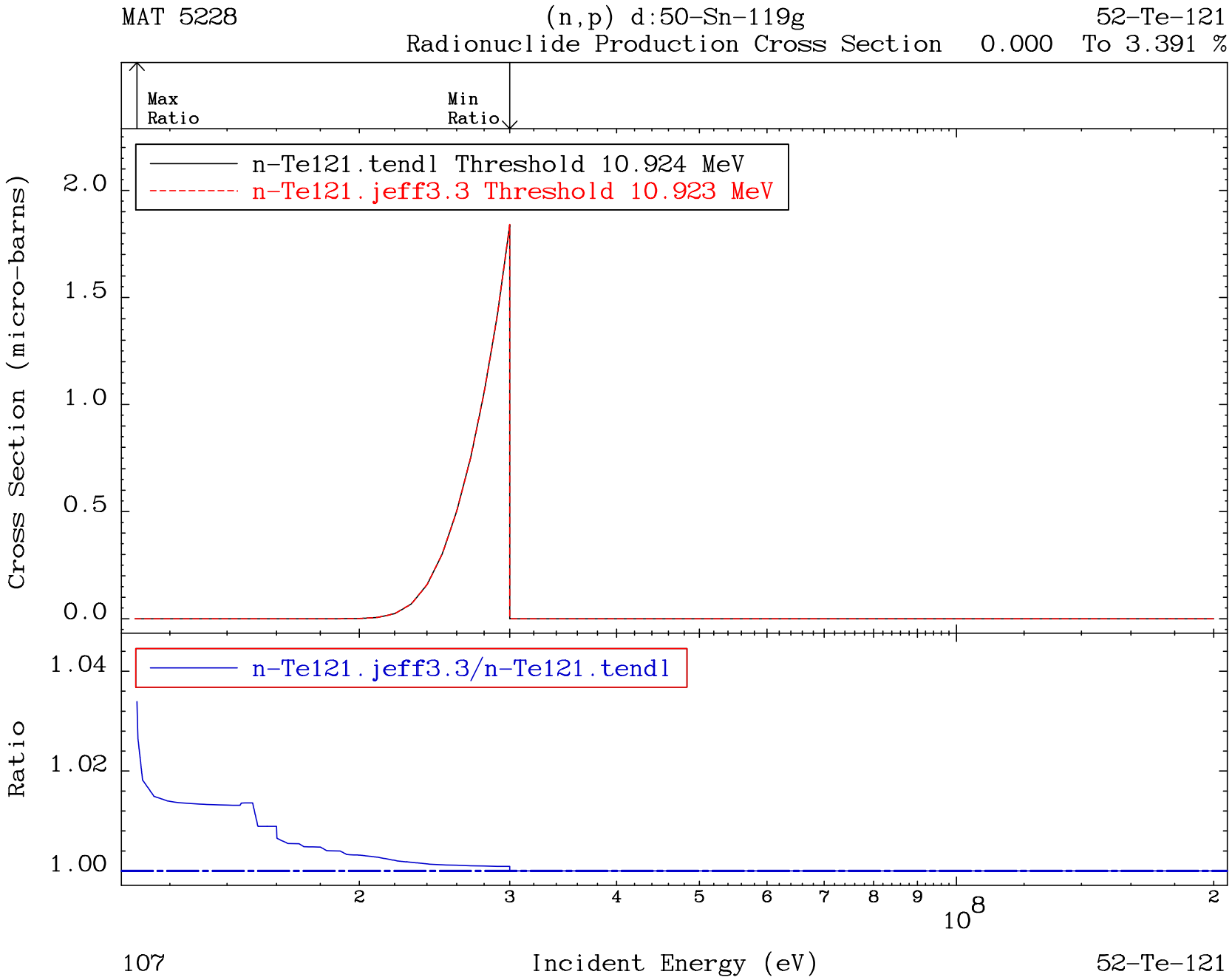

MAT 5228
(n,d):51-Sb-120m6
52-Te-121
Radionuclide Production Cross Section -1.174 To 2.771 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 6.6000 MeV
n-Te121.jeff3.3 Threshold 6.6000 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.04
1.02
1.00
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
102
Incident Energy (eV)
52-Te-121

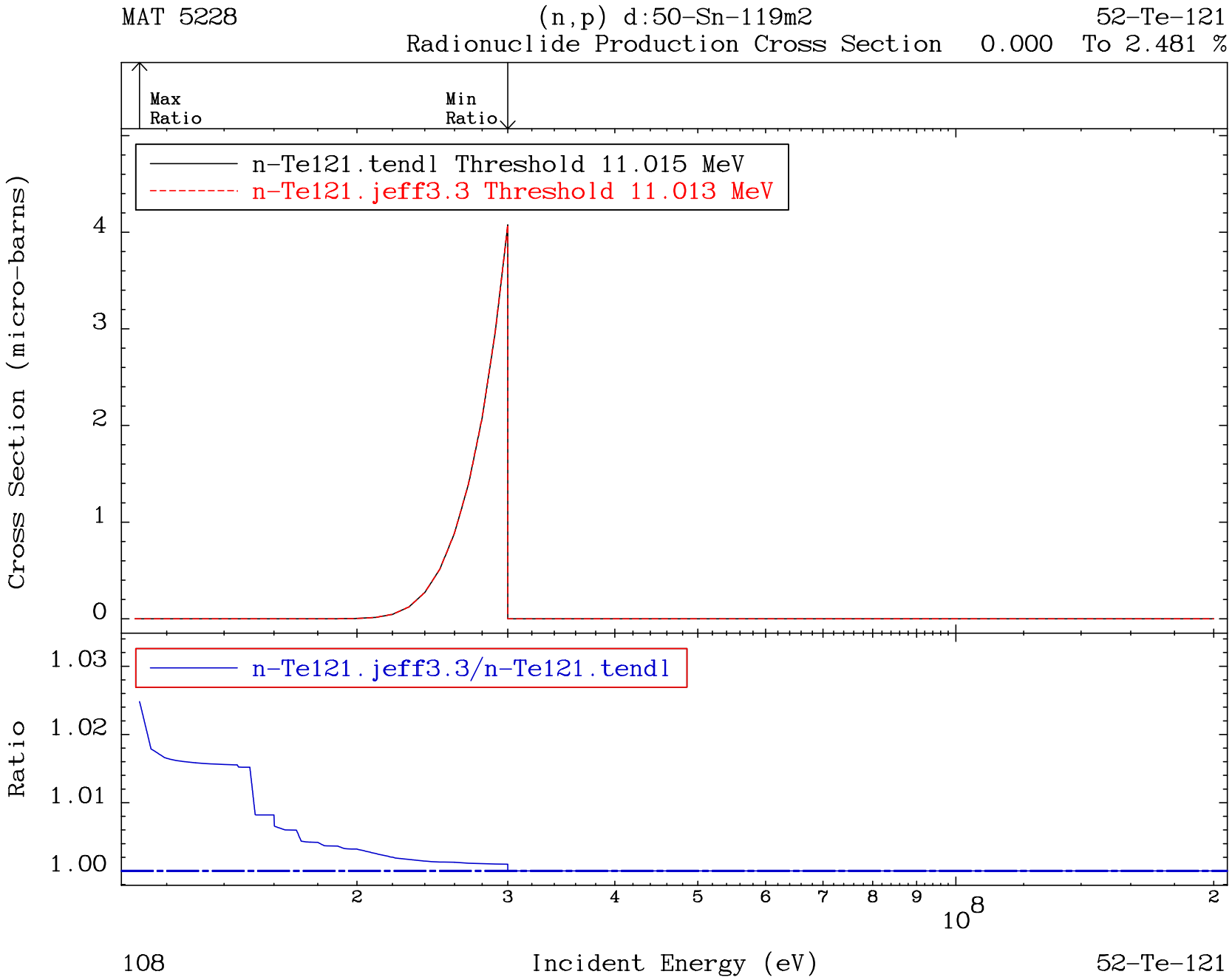

MAT 5228
(n,He-3):50-Sn-119g
52-Te-121
Radionuclide Production Cross Section 0.000 To 119.1 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 5.3849 MeV
n-Te121.jeff3.3 Threshold 5.3836 MeV
Cross Section (micro-barns)
800
600
400
200
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
2.4
2.0
1.6
1.2
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
103
Incident Energy (eV)
52-Te-121

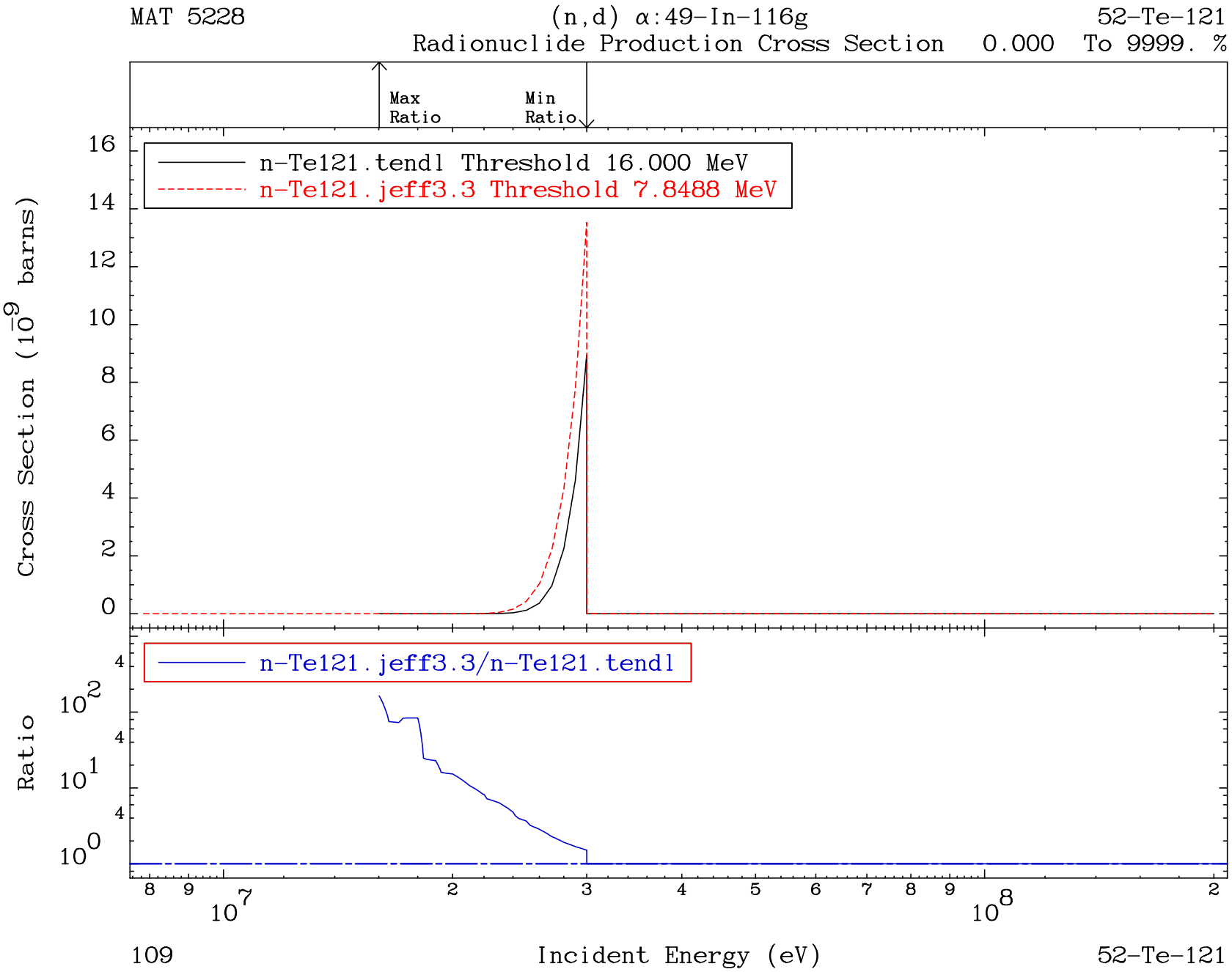

MAT 5228
(n,He-3):50-Sn-119m2
52-Te-121
Radionuclide Production Cross Section 0.000 To 1.748 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 5.4752 MeV
n-Te121.jeff3.3 Threshold 5.4739 MeV
Cross Section (milli-barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.02
1.01
1.00
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
104
Incident Energy (eV)
52-Te-121

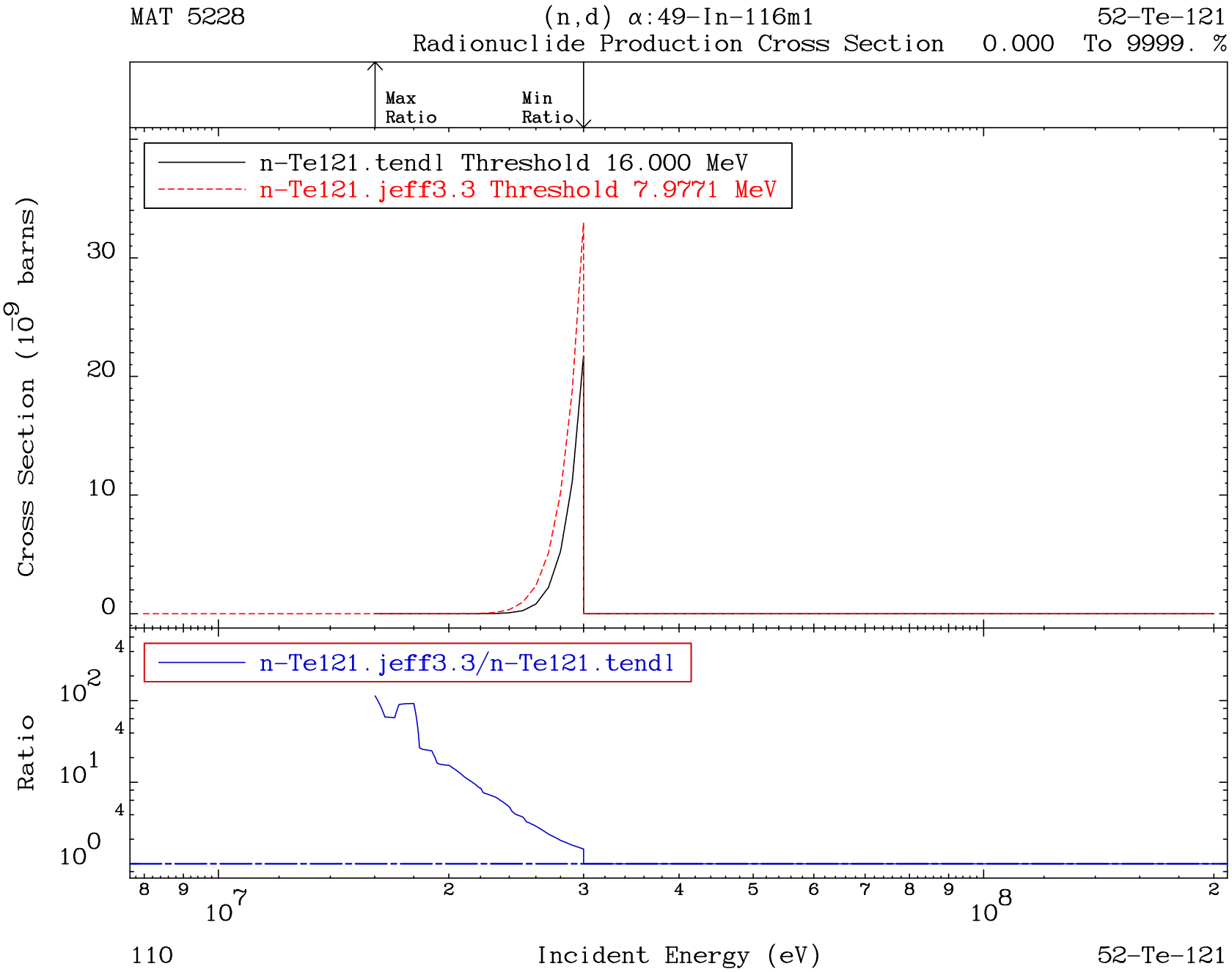

MAT 5228
(n,p) α:49-In-117g
52-Te-121
Radionuclide Production Cross Section
-3.434 To 9999. %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 1.2554 MeV
n-Te121.jeff3.3 Threshold 1.2541 MeV
Cross Section (micro-barns)
n-Te121.jeff3.3/n-Te121.tendl
Ratio
Incident Energy (eV)
105
52-Te-121

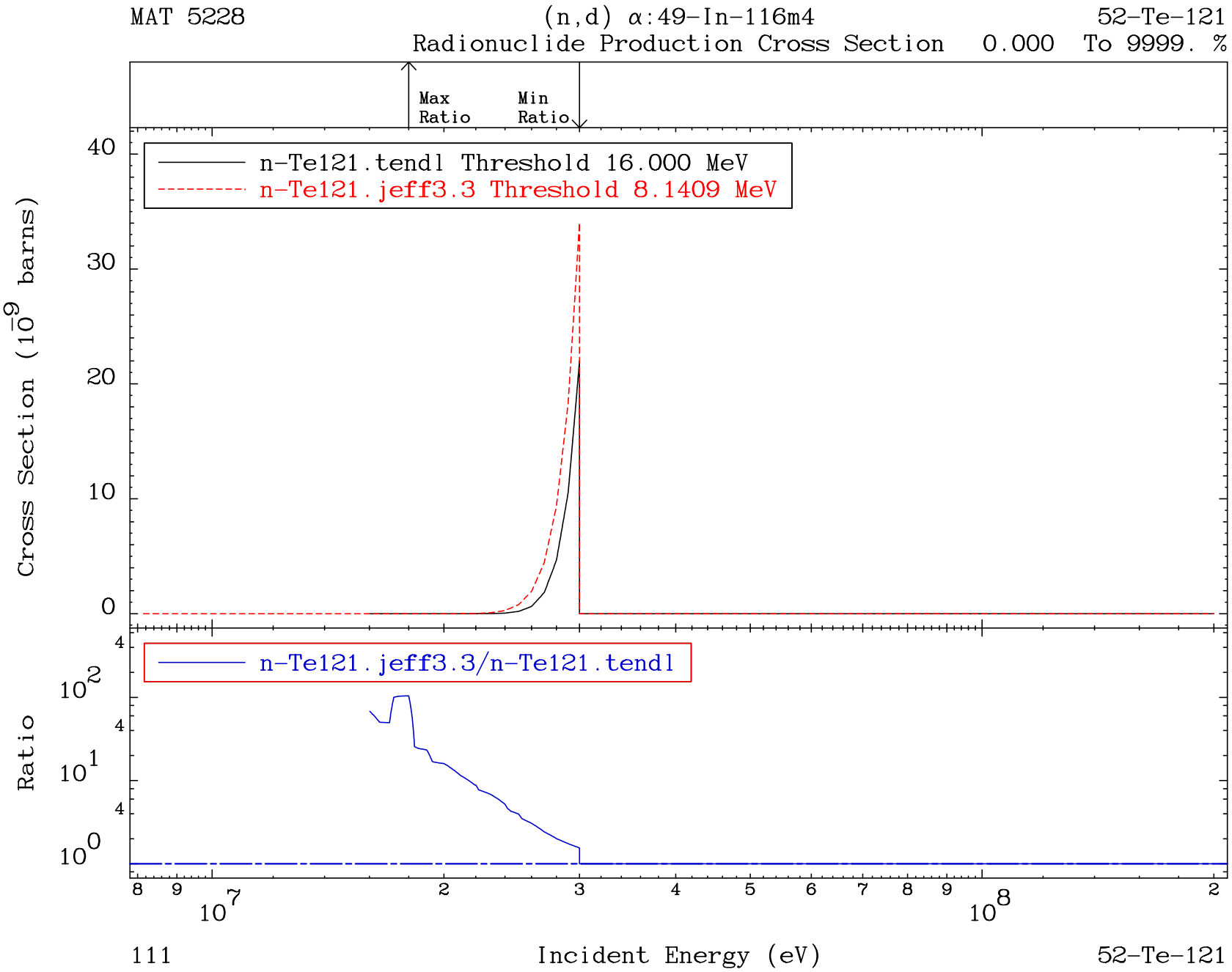

MAT 5228
(n,p) α:49-In-117m1
52-Te-121
Radionuclide Production Cross Section -3.416 To 9999. %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 8.0000 MeV
n-Te121.jeff3.3 Threshold 7.4000 MeV
Cross Section (micro-barns)
2.0
1.5
1.0
0.5
0.0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
10^2
10^1
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
106
Incident Energy (eV)
52-Te-121


MAT 5228
(n,p) d:50-Sn-119g
52-Te-121
Radionuclide Production Cross Section 0.000 To 3.391 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 10.924 MeV
n-Te121.jeff3.3 Threshold 10.923 MeV
Cross Section (micro-barns)
2.0
1.5
1.0
0.5
0.0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.04
1.02
1.00
2
3
4
5
6
7
8
9
10^8
2
107
Incident Energy (eV)
52-Te-121


MAT 5228
(n,p) d:50-Sn-119m2
52-Te-121
Radionuclide Production Cross Section 0.000 To 2.481 %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 11.015 MeV
n-Te121.jeff3.3 Threshold 11.013 MeV
Cross Section (micro-barns)
0
1
2
3
4
n-Te121.jeff3.3/n-Te121.tendl
Ratio
1.00
1.01
1.02
1.03
2
3
4
5
6
7
8
9
10^8
2
108
Incident Energy (eV)
52-Te-121


MAT 5228
(n,d) α:49-In-116g
52-Te-121
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 16.000 MeV
n-Te121.jeff3.3 Threshold 7.8488 MeV
Cross Section (10^{-9} barns)
n-Te121.jeff3.3/n-Te121.tendl
Ratio
Incident Energy (eV)
109
52-Te-121


MAT 5228
(n,d) α:49-In-116m1
52-Te-121
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 16.000 MeV
n-Te121.jeff3.3 Threshold 7.9771 MeV
Cross Section (10^{-9} barns)
30
20
10
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
10^{2}
10^{1}
10^{0}
4
8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
110
Incident Energy (eV)
52-Te-121


MAT 5228
(n,d) α:49-In-116m4
52-Te-121
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-Te121.tendl Threshold 16.000 MeV
n-Te121.jeff3.3 Threshold 8.1409 MeV
Cross Section (10^{-9} barns)
40
30
20
10
0
n-Te121.jeff3.3/n-Te121.tendl
Ratio
10^{2}
10^{1}
10^{0}
8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
111
Incident Energy (eV)
52-Te-121