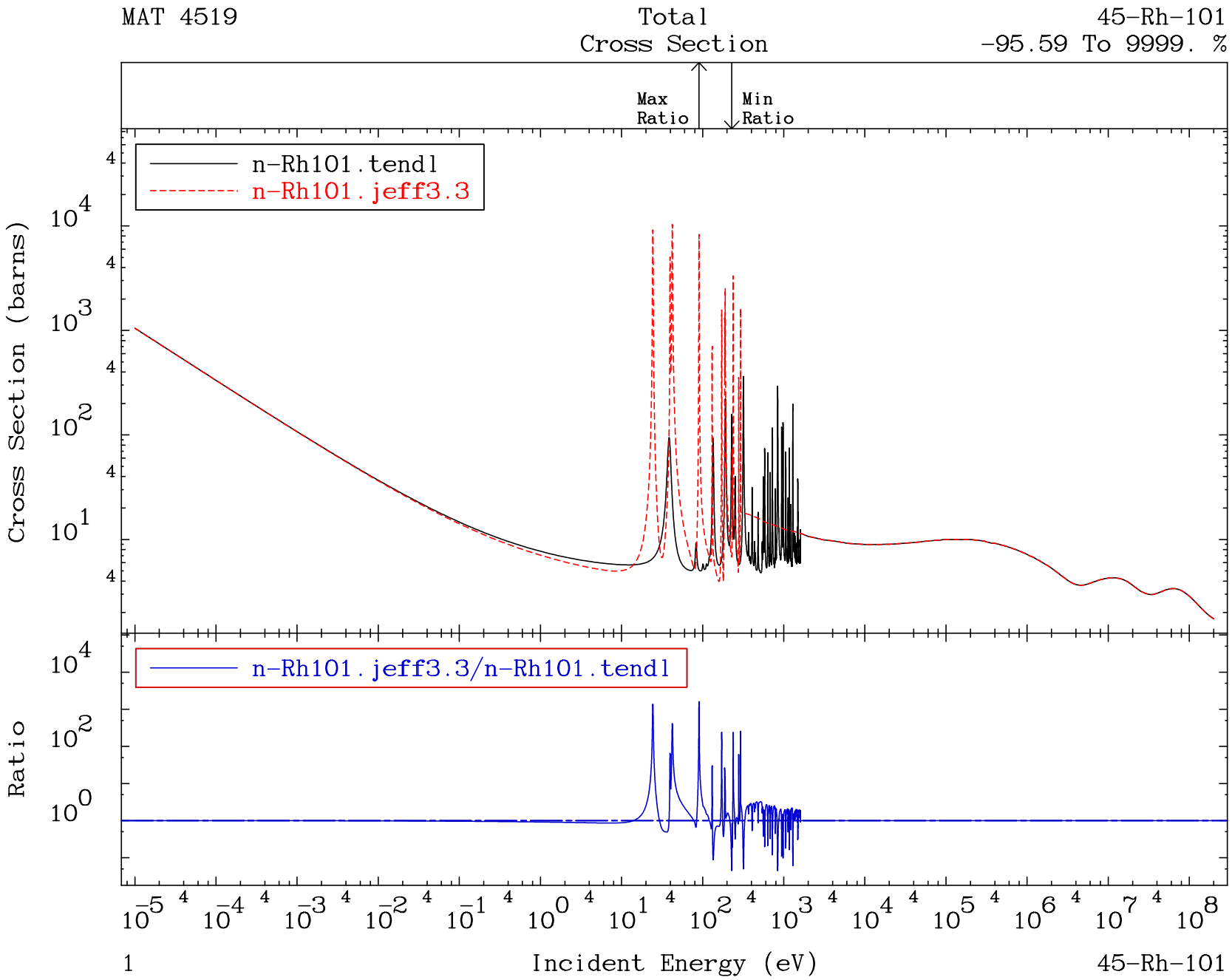
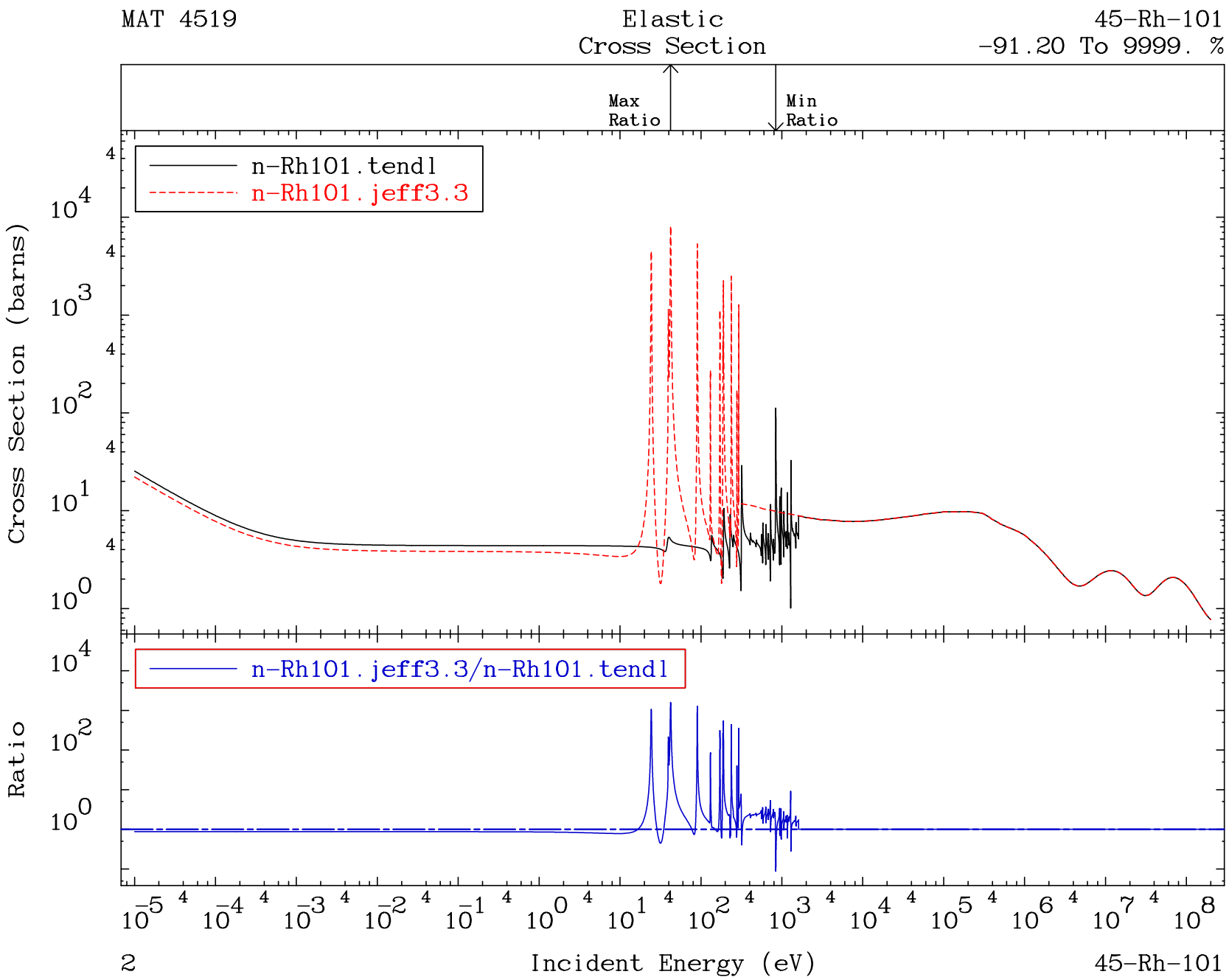
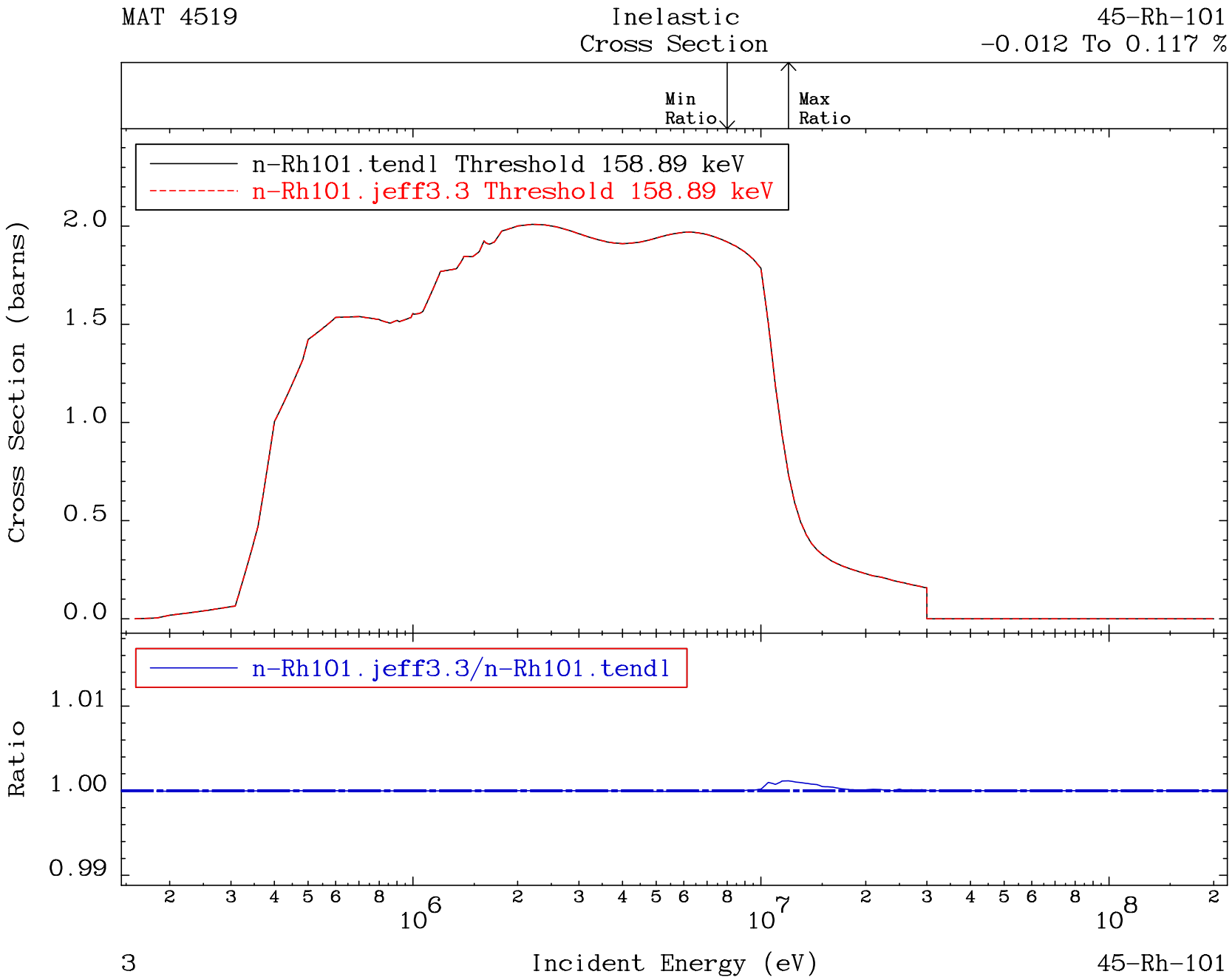
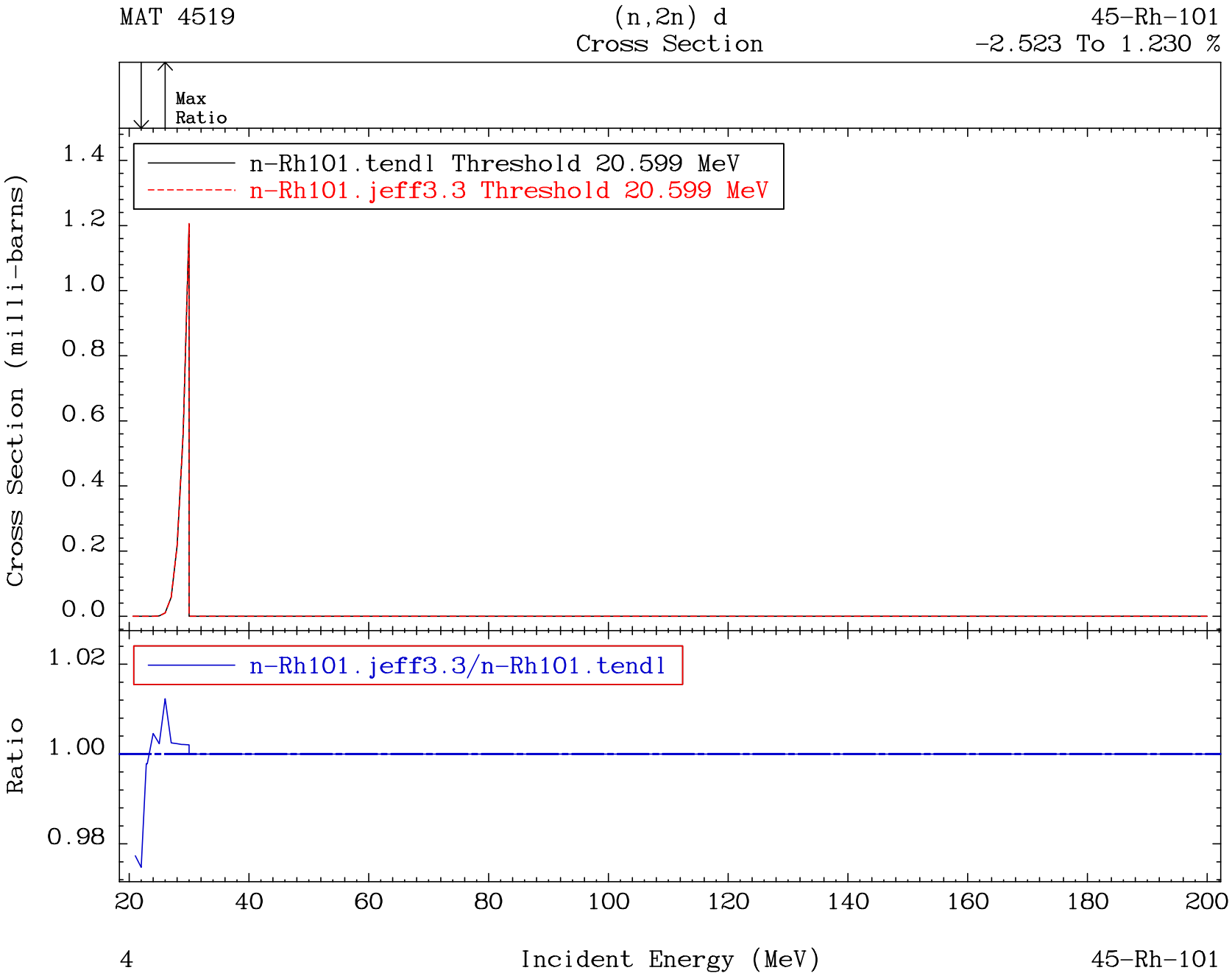
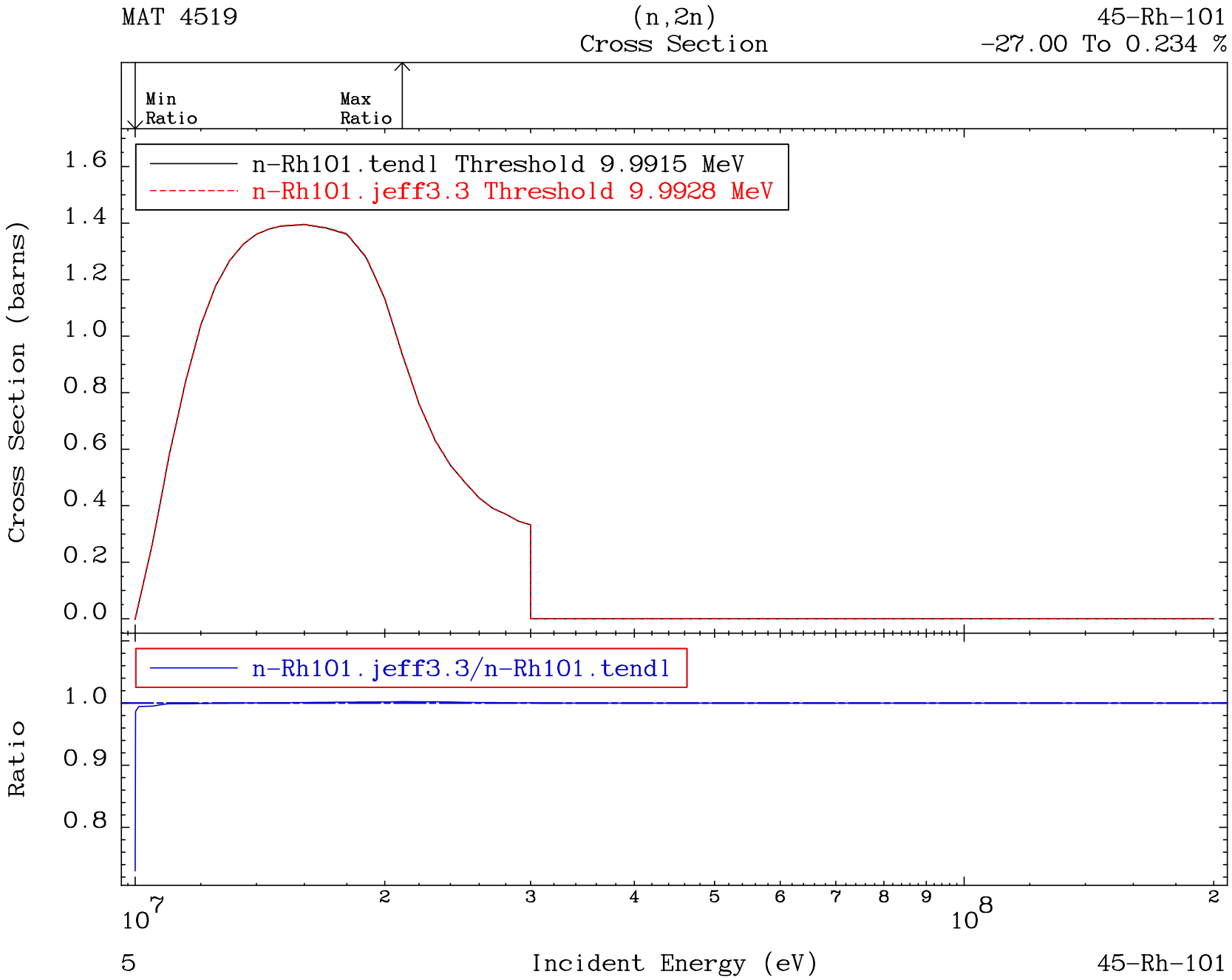
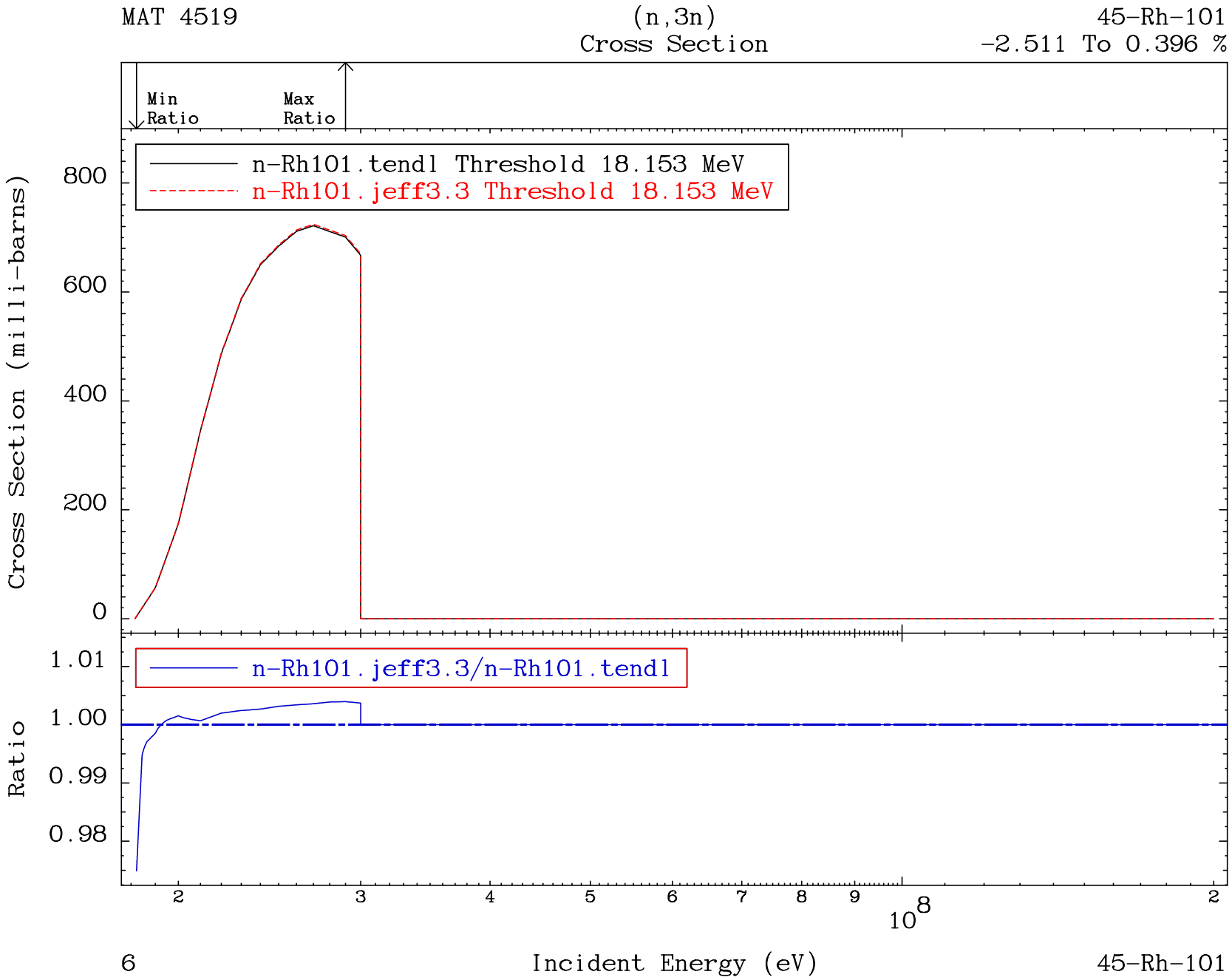

MAT 4519
Total
Cross Section
45-Rh-101
-95.59 To 9999. %
Max
Ratio
Min
Ratio
n-Rh101.tendl
n-Rh101.jeff3.3
Cross Section (barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
Incident Energy (eV)
1
45-Rh-101

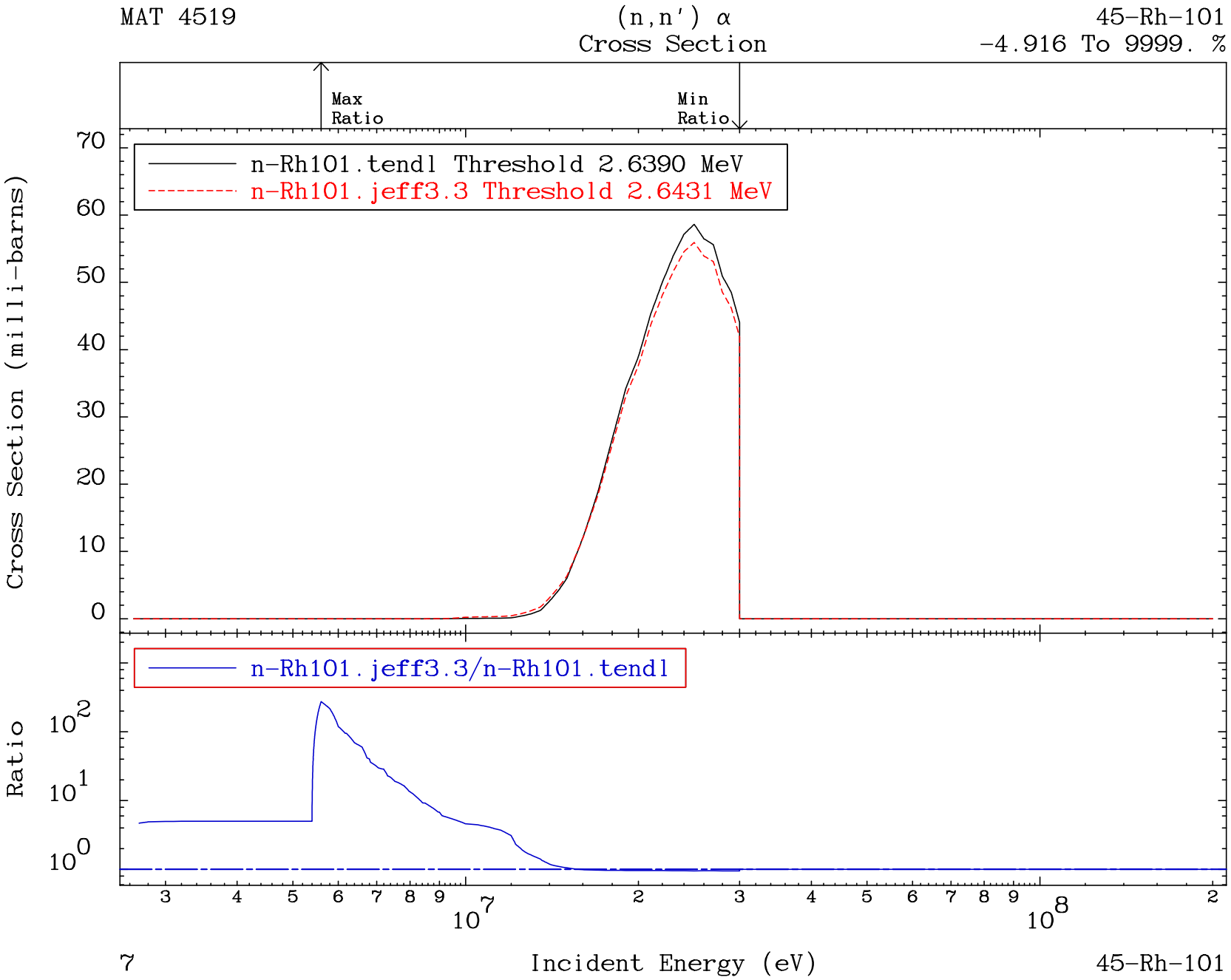

MAT 4519
Elastic
Cross Section
45-Rh-101
-91.20 To 9999. %
Max
Ratio
Min
Ratio
n-Rh101.tendl
n-Rh101.jeff3.3
Cross Section (barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
Incident Energy (eV)
2
45-Rh-101

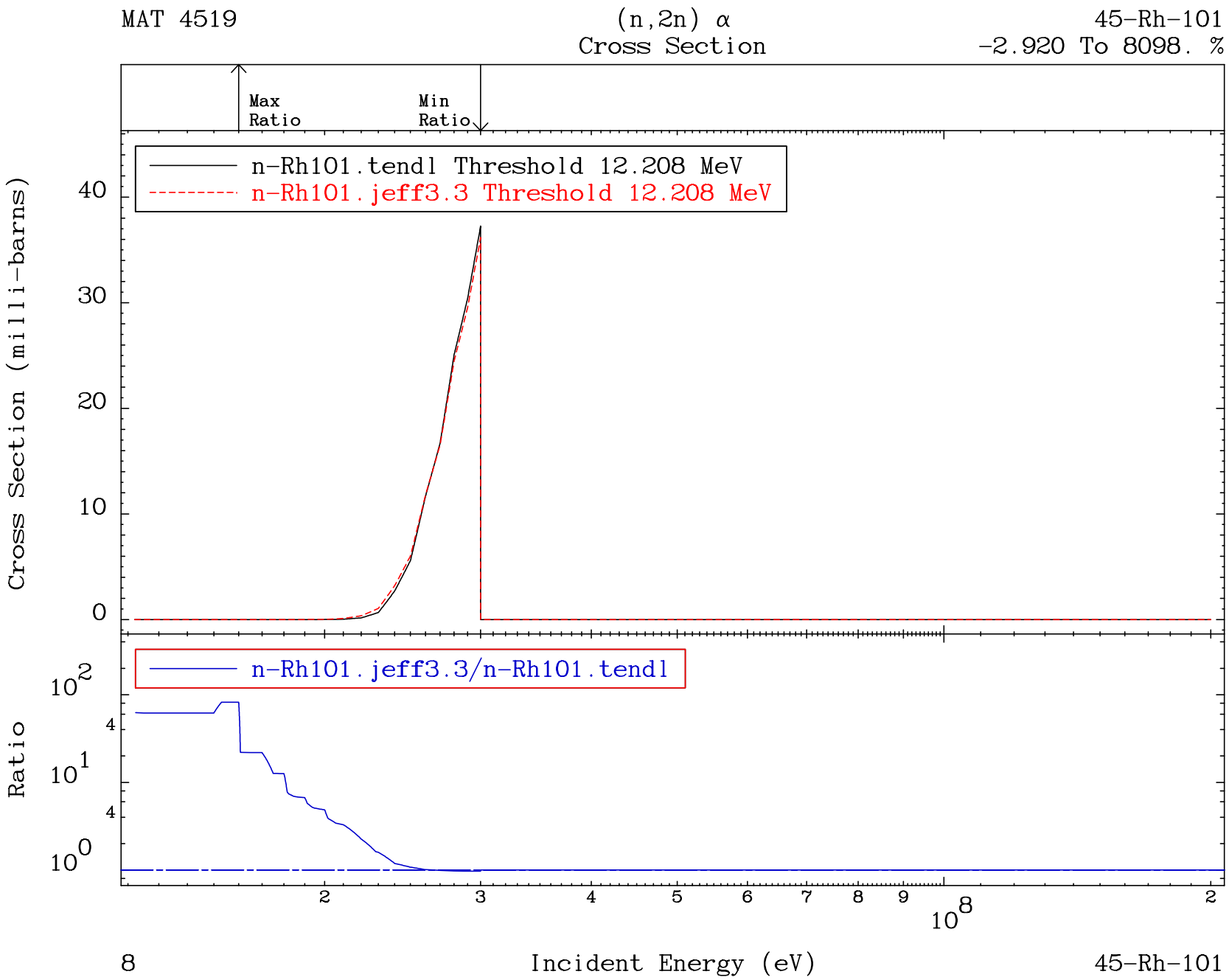

MAT 4519
Inelastic
Cross Section
45-Rh-101
-0.012 To 0.117 %
Min
Ratio
Max
Ratio
n-Rh101.tendl Threshold 158.89 keV
n-Rh101.jeff3.3 Threshold 158.89 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
45-Rh-101

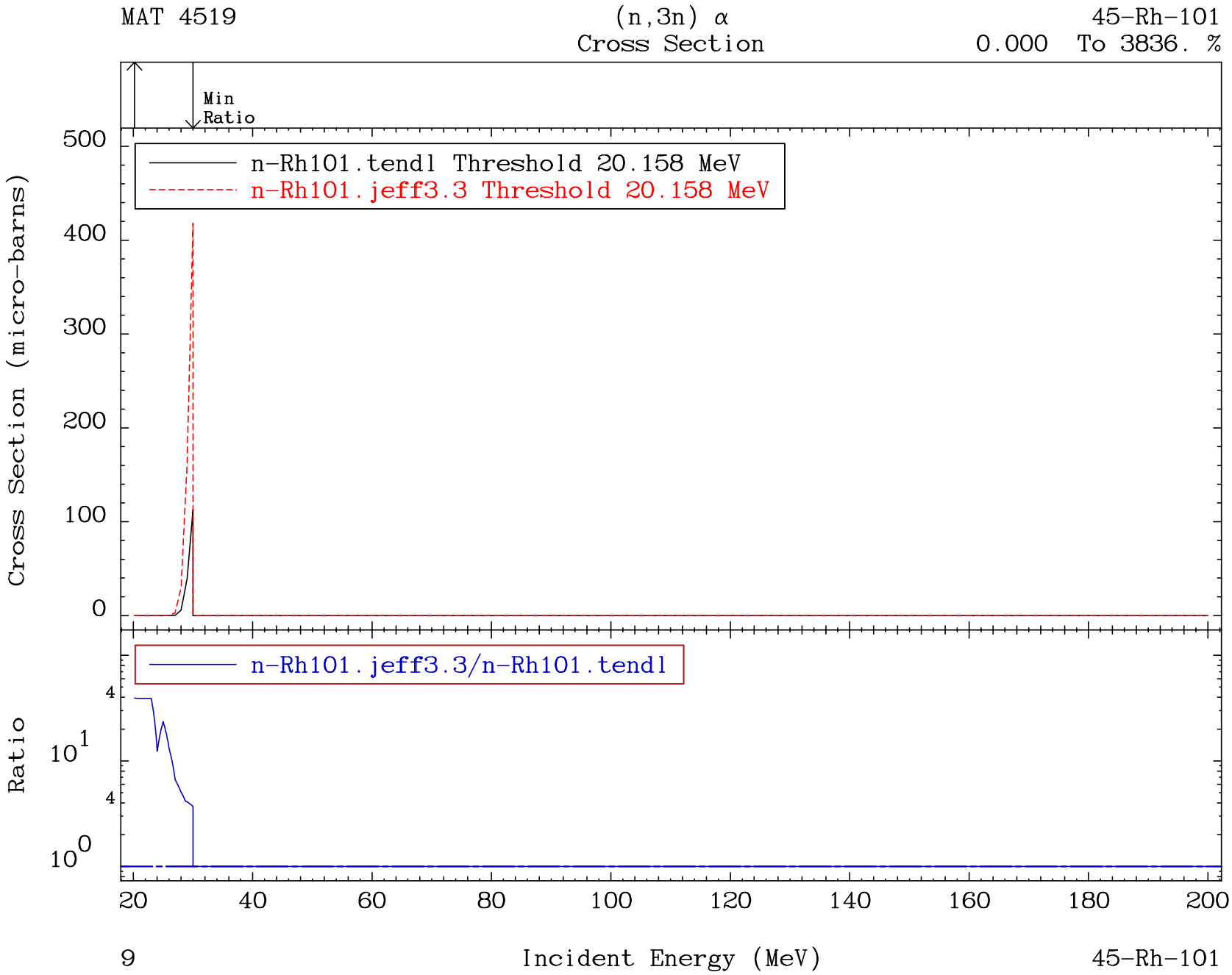

MAT 4519
(n,2n) d
Cross Section
45-Rh-101
-2.523 To 1.230 %
Max
Ratio
n-Rh101.tendl Threshold 20.599 MeV
n-Rh101.jeff3.3 Threshold 20.599 MeV
Cross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.02
1.00
0.98
20
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
45-Rh-101

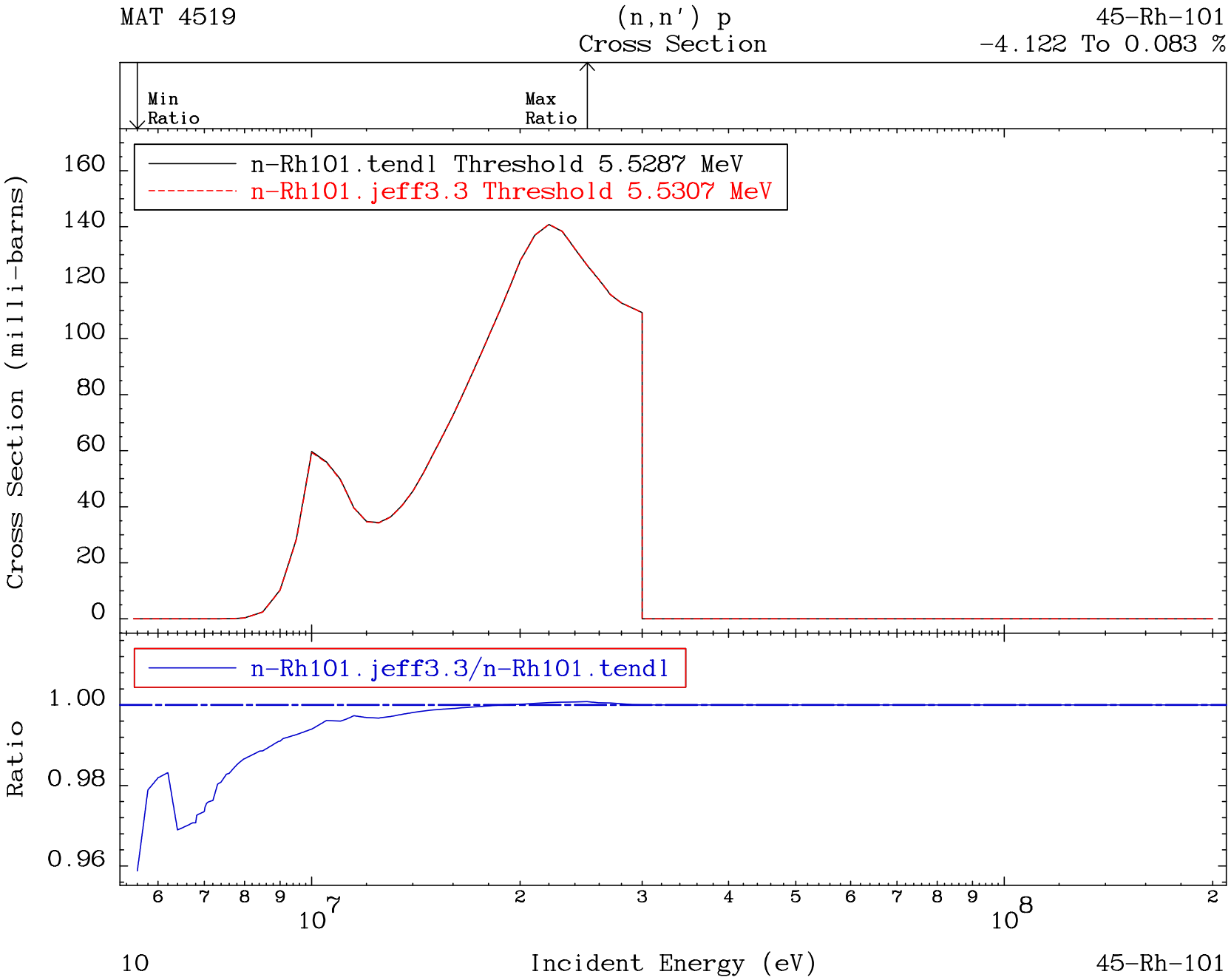

MAT 4519
(n,2n)
Cross Section
45-Rh-101
-27.00 To 0.234 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 9.9915 MeV
n-Rh101.jeff3.3 Threshold 9.9928 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.0
0.9
0.8
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
45-Rh-101

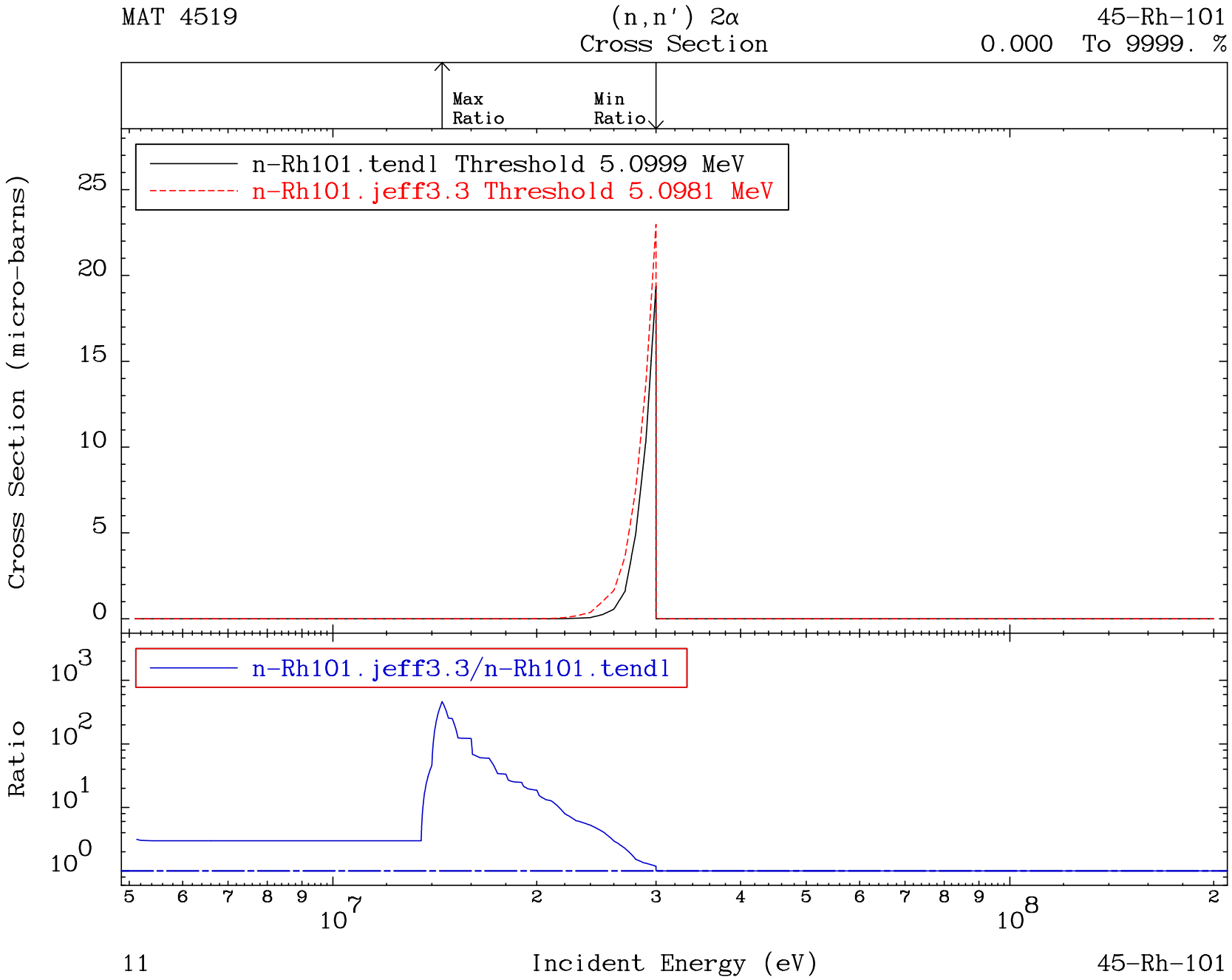

MAT 4519
(n,3n)
Cross Section
45-Rh-101
-2.511 To 0.396 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 18.153 MeV
n-Rh101.jeff3.3 Threshold 18.153 MeV
Cross Section (milli-barns)
800
600
400
200
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.01
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
45-Rh-101

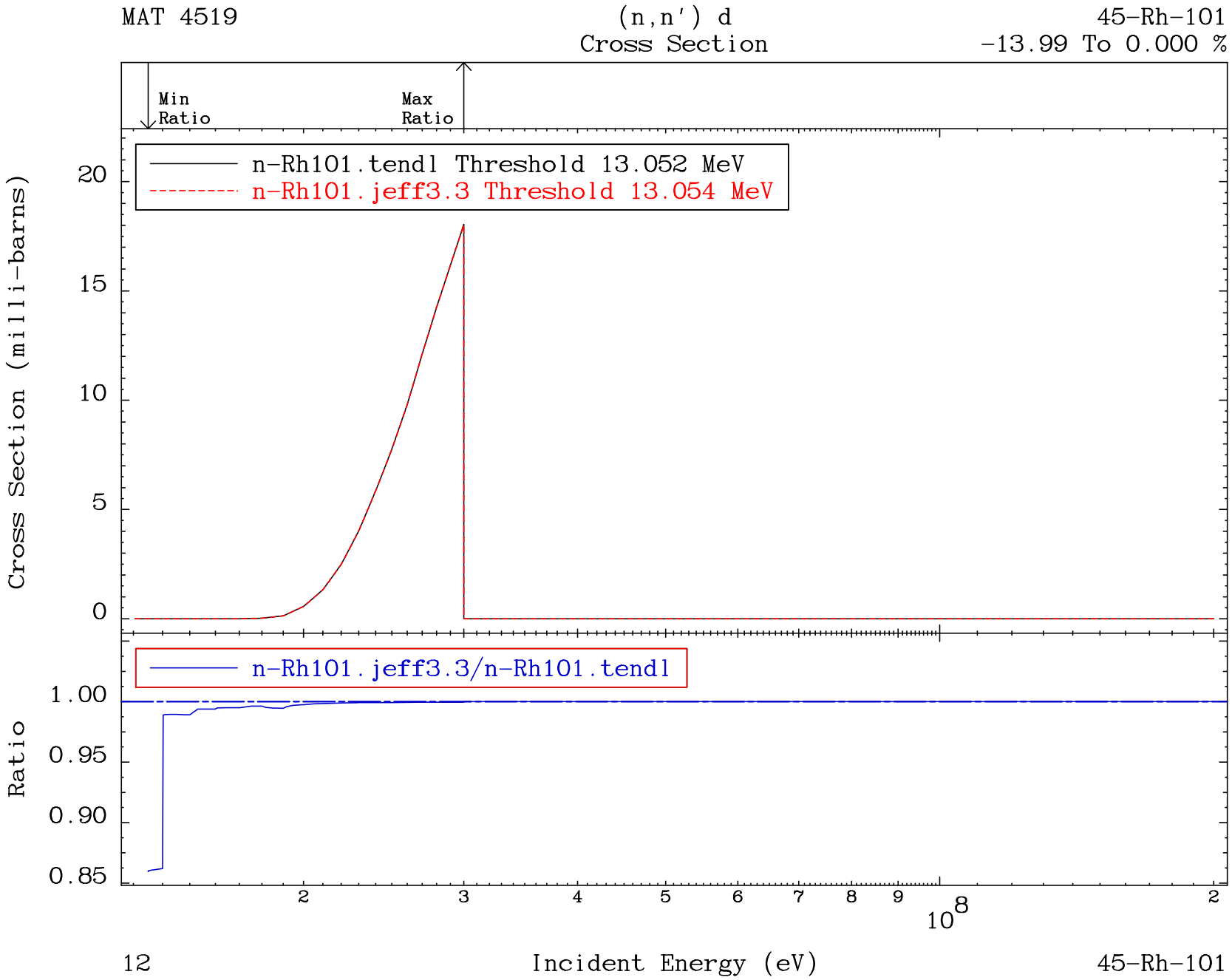

MAT 4519
(n,n') α
Cross Section
45-Rh-101
-4.916 To 9999. %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 2.6390 MeV
n-Rh101.jeff3.3 Threshold 2.6431 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
10^2
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
45-Rh-101

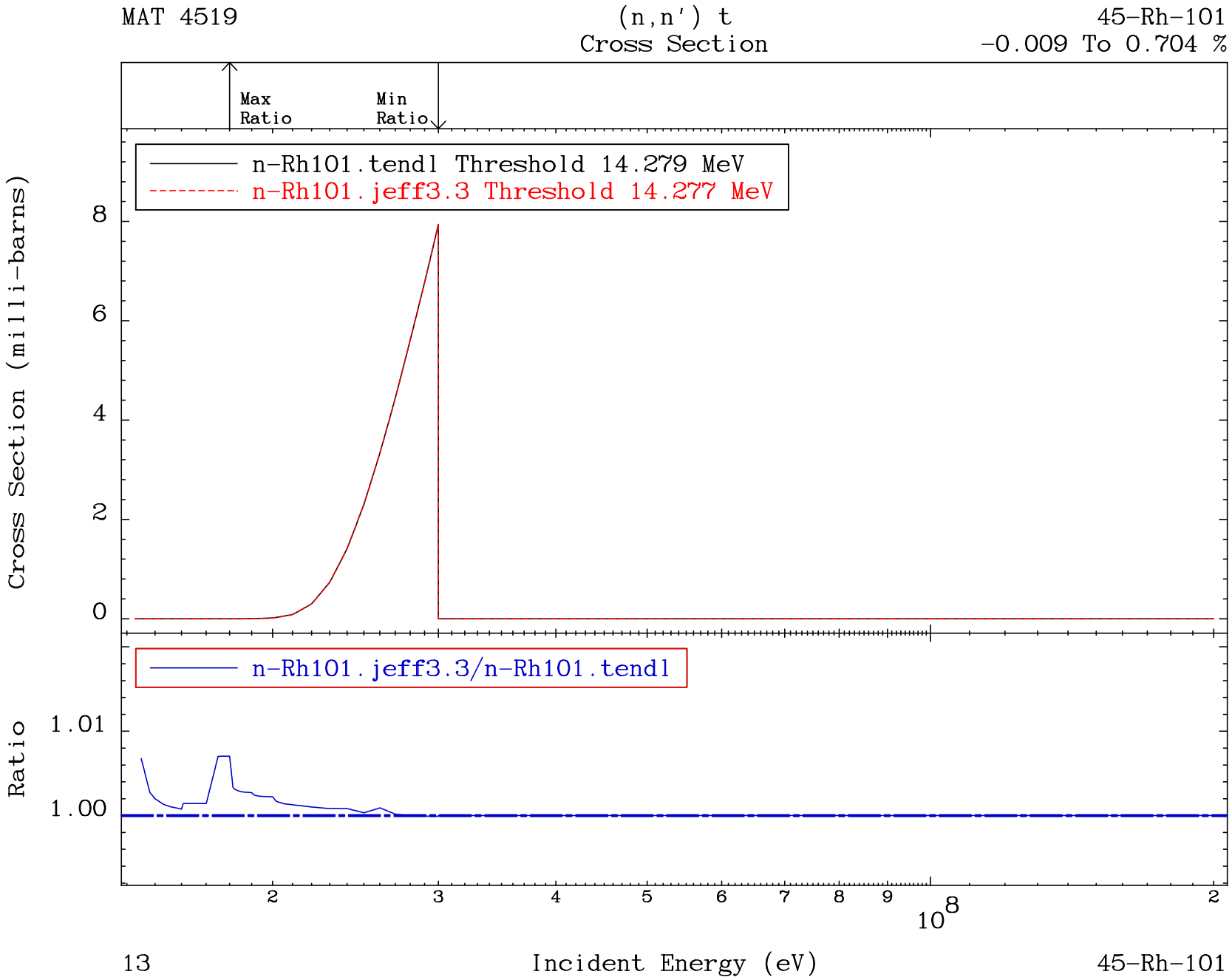

MAT 4519
(n,2n) α
Cross Section
45-Rh-101
-2.920 To 8098. %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 12.208 MeV
n-Rh101.jeff3.3 Threshold 12.208 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
45-Rh-101

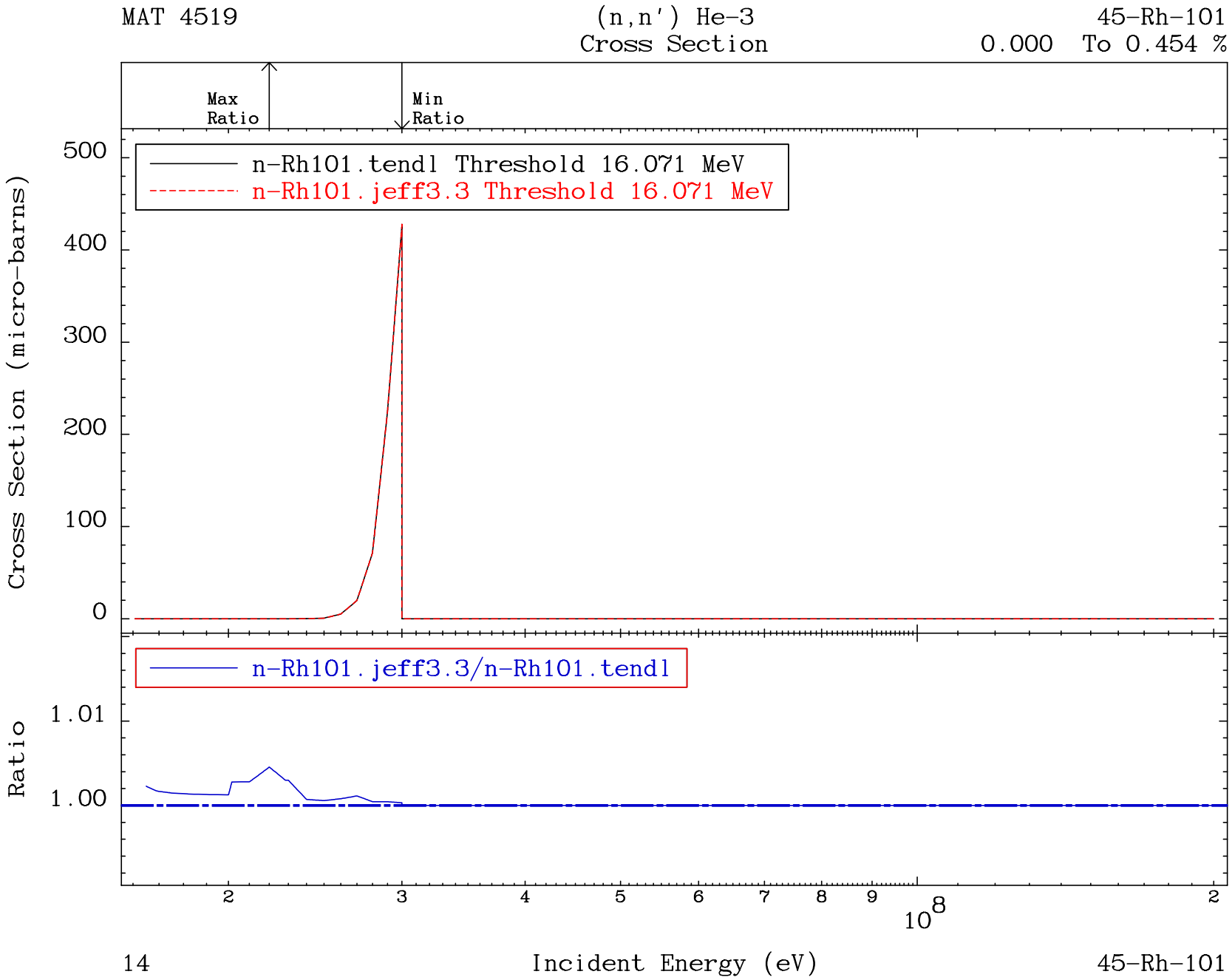

MAT 4519
(n,3n) α
Cross Section
45-Rh-101
0.000 To 3836. %
Min
Ratio
n-Rh101.tendl Threshold 20.158 MeV
n-Rh101.jeff3.3 Threshold 20.158 MeV
Cross Section (micro-barns)
500
400
300
200
100
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
4
10^1
4
10^0
20
40
60
80
100
120
140
160
180
200
9
Incident Energy (MeV)
45-Rh-101

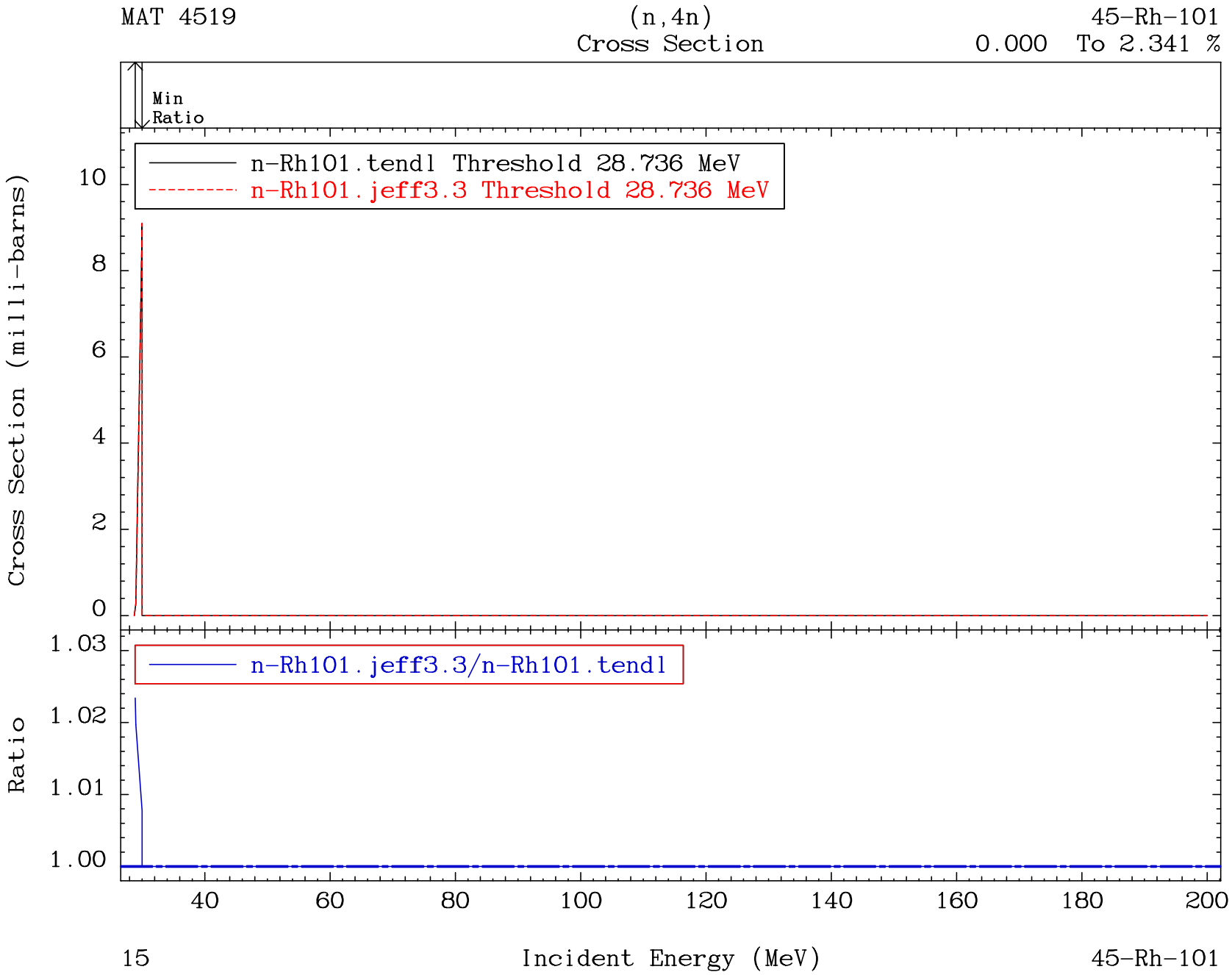

MAT 4519
(n,n') p
Cross Section
45-Rh-101
-4.122 To 0.083 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 5.5287 MeV
n-Rh101.jeff3.3 Threshold 5.5307 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.00
0.98
0.96
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
45-Rh-101

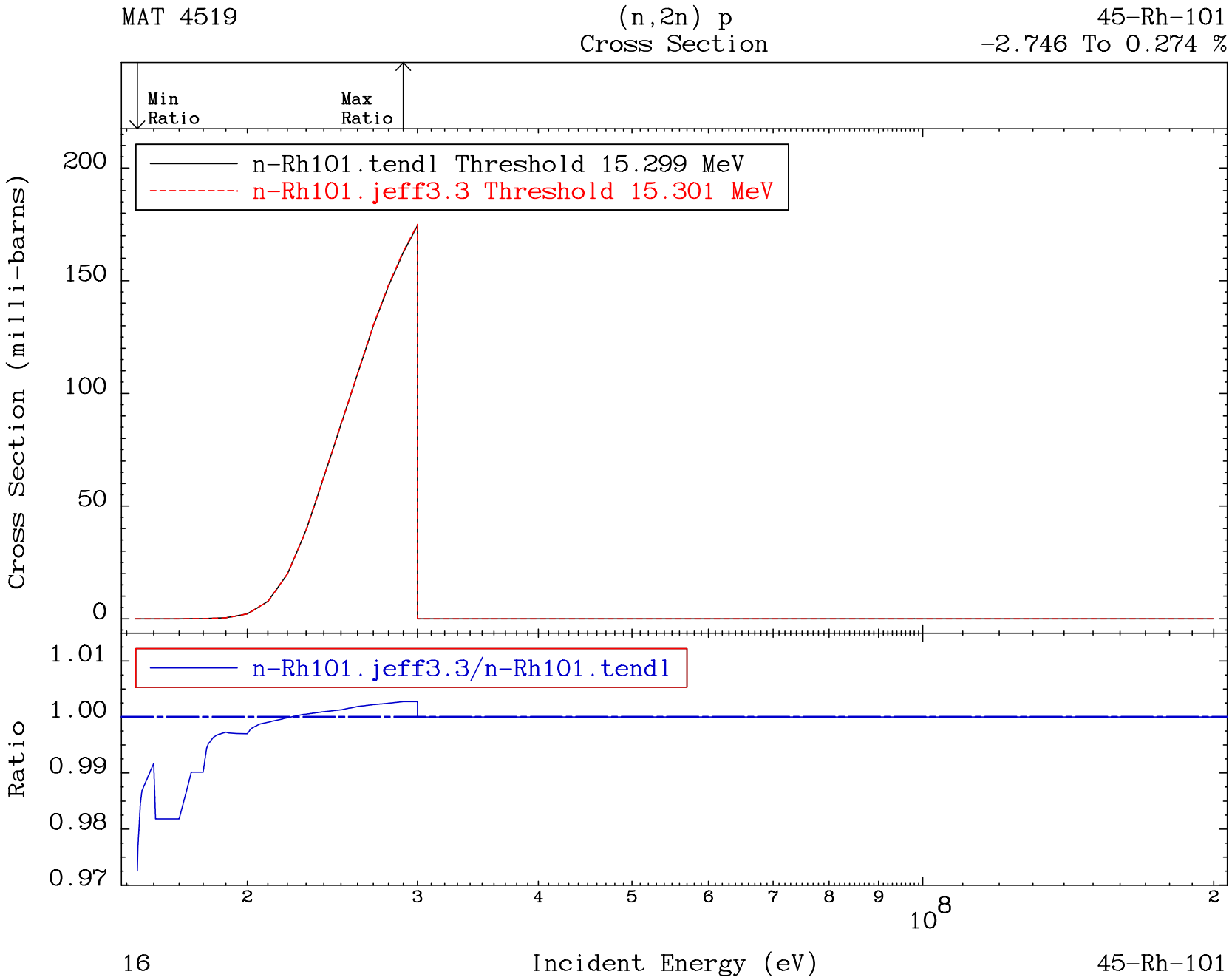

MAT 4519
(n,n') 2α
Cross Section
45-Rh-101
0.000 To 9999. %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 5.0999 MeV
n-Rh101.jeff3.3 Threshold 5.0981 MeV
Cross Section (micro-barns)
25
20
15
10
5
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
10^3
10^2
10^1
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
45-Rh-101

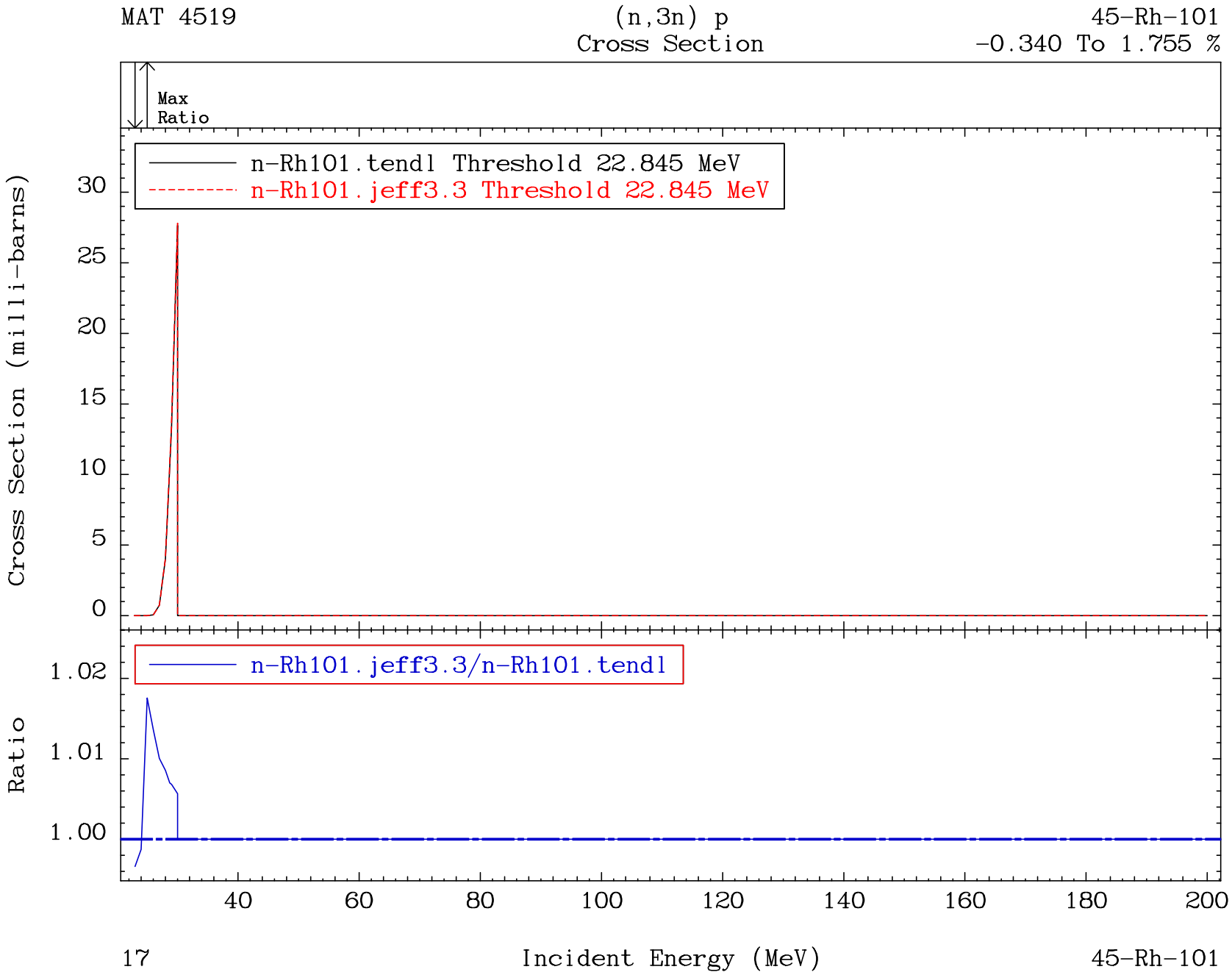

MAT 4519
(n,n') d
Cross Section
45-Rh-101
-13.99 To 0.000 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 13.052 MeV
n-Rh101.jeff3.3 Threshold 13.054 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.00
0.95
0.90
0.85
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
45-Rh-101

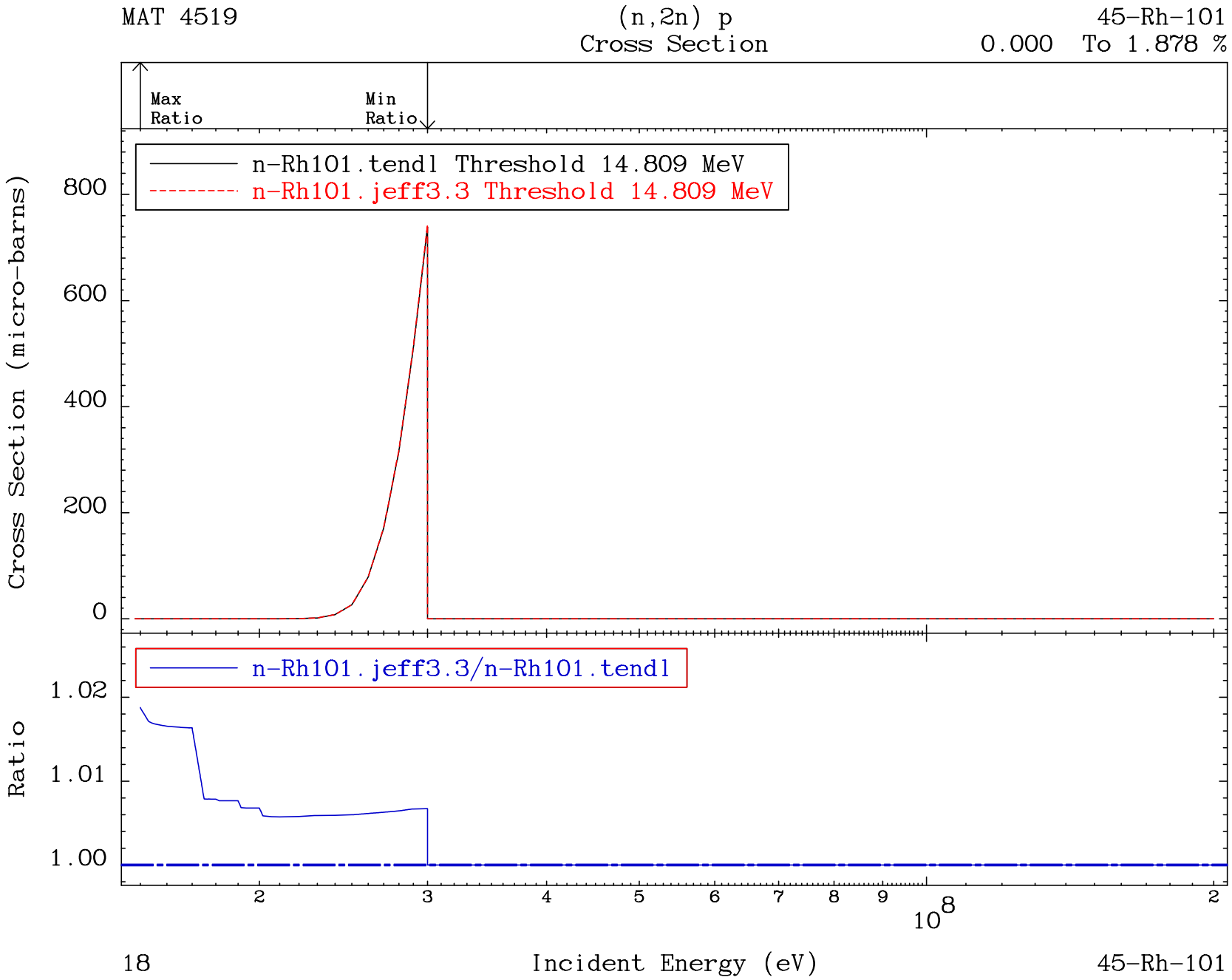

MAT 4519
(n,n') t
Cross Section
45-Rh-101
-0.009 To 0.704 %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 14.279 MeV
n-Rh101.jeff3.3 Threshold 14.277 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.00
1.01
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
45-Rh-101

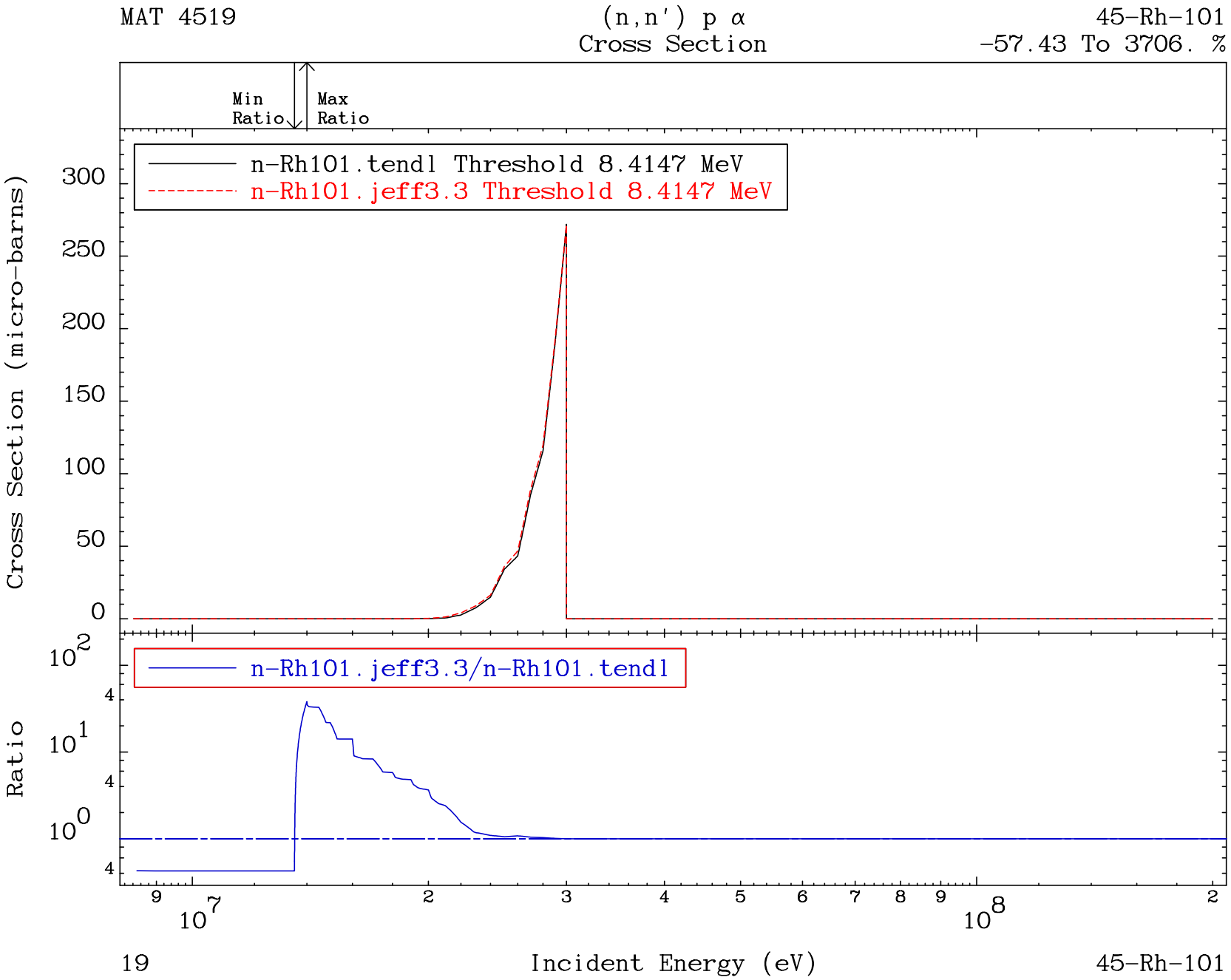

MAT 4519
(n,n') He-3
Cross Section
45-Rh-101
0.000 To 0.454 %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 16.071 MeV
n-Rh101.jeff3.3 Threshold 16.071 MeV
Cross Section (micro-barns)
500
400
300
200
100
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
45-Rh-101

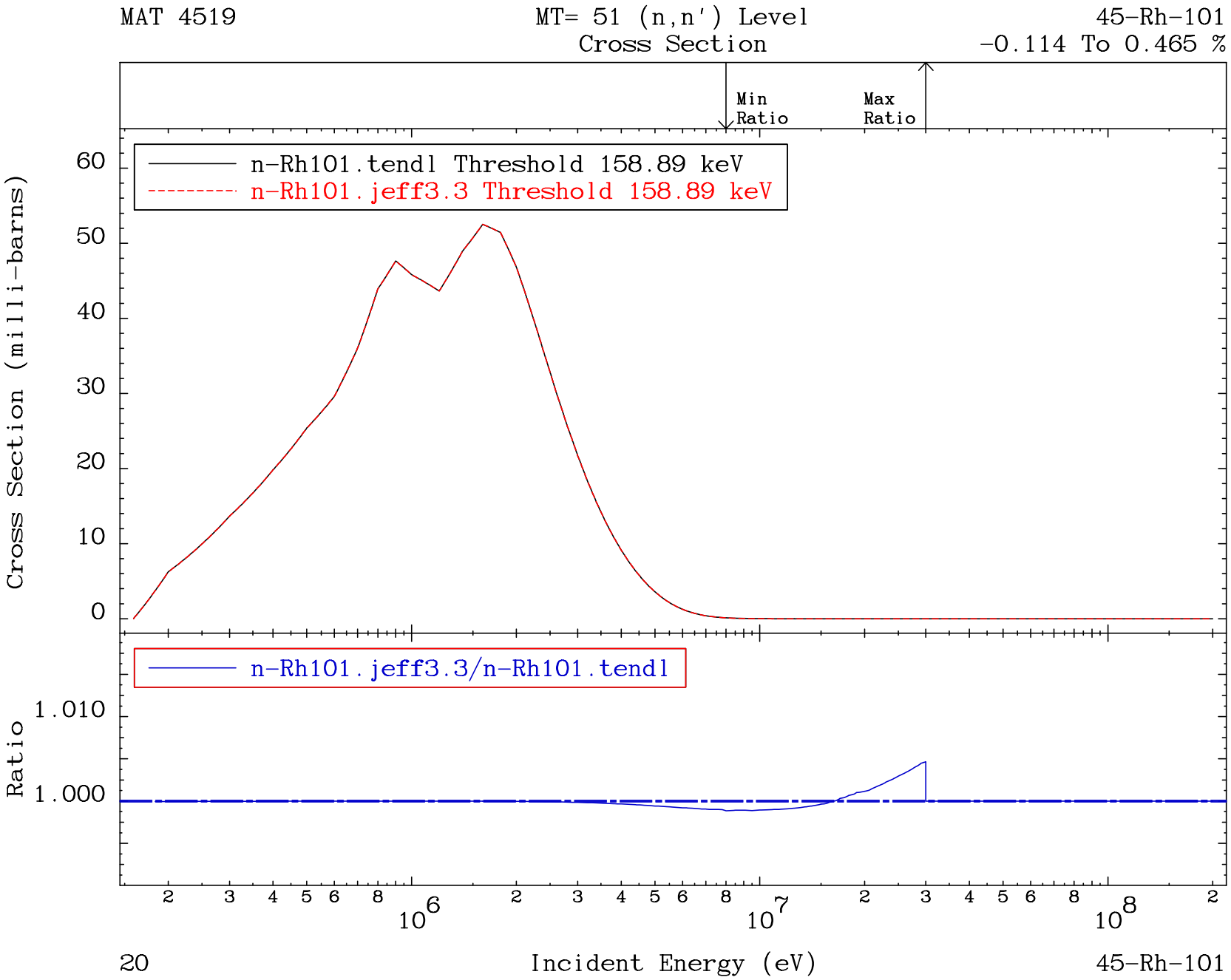

MAT 4519
(n,4n)
Cross Section
45-Rh-101
0.000 To 2.341 %
Min
Ratio
n-Rh101.tendl Threshold 28.736 MeV
n-Rh101.jeff3.3 Threshold 28.736 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.03
1.02
1.01
1.00
40
60
80
100
120
140
160
180
200
15
Incident Energy (MeV)
45-Rh-101

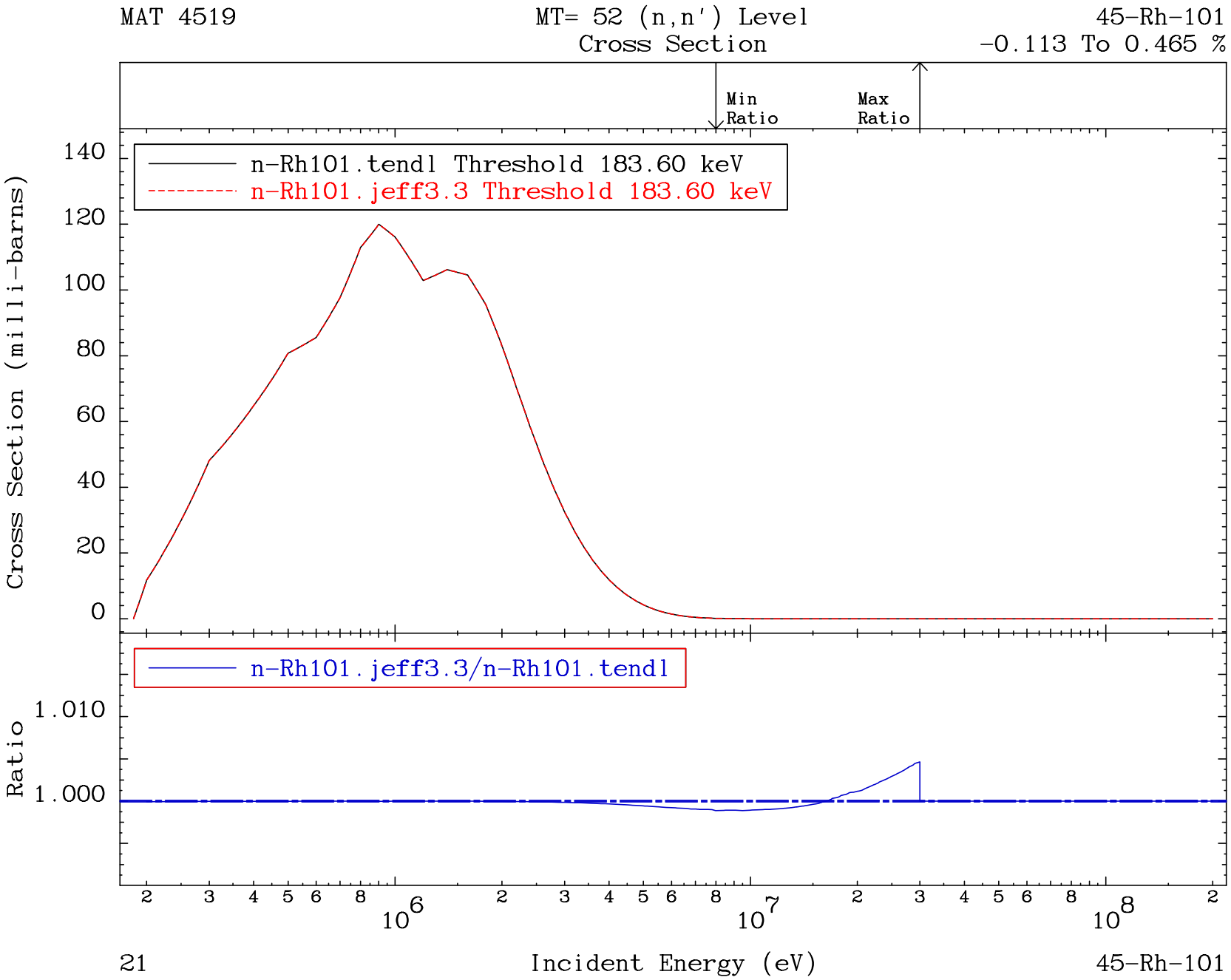

MAT 4519
(n,2n) p
Cross Section
45-Rh-101
-2.746 To 0.274 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 15.299 MeV
n-Rh101.jeff3.3 Threshold 15.301 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.01
1.00
0.99
0.98
0.97
2
3
4
5
6
7
8
9
10^8
2
16
Incident Energy (eV)
45-Rh-101

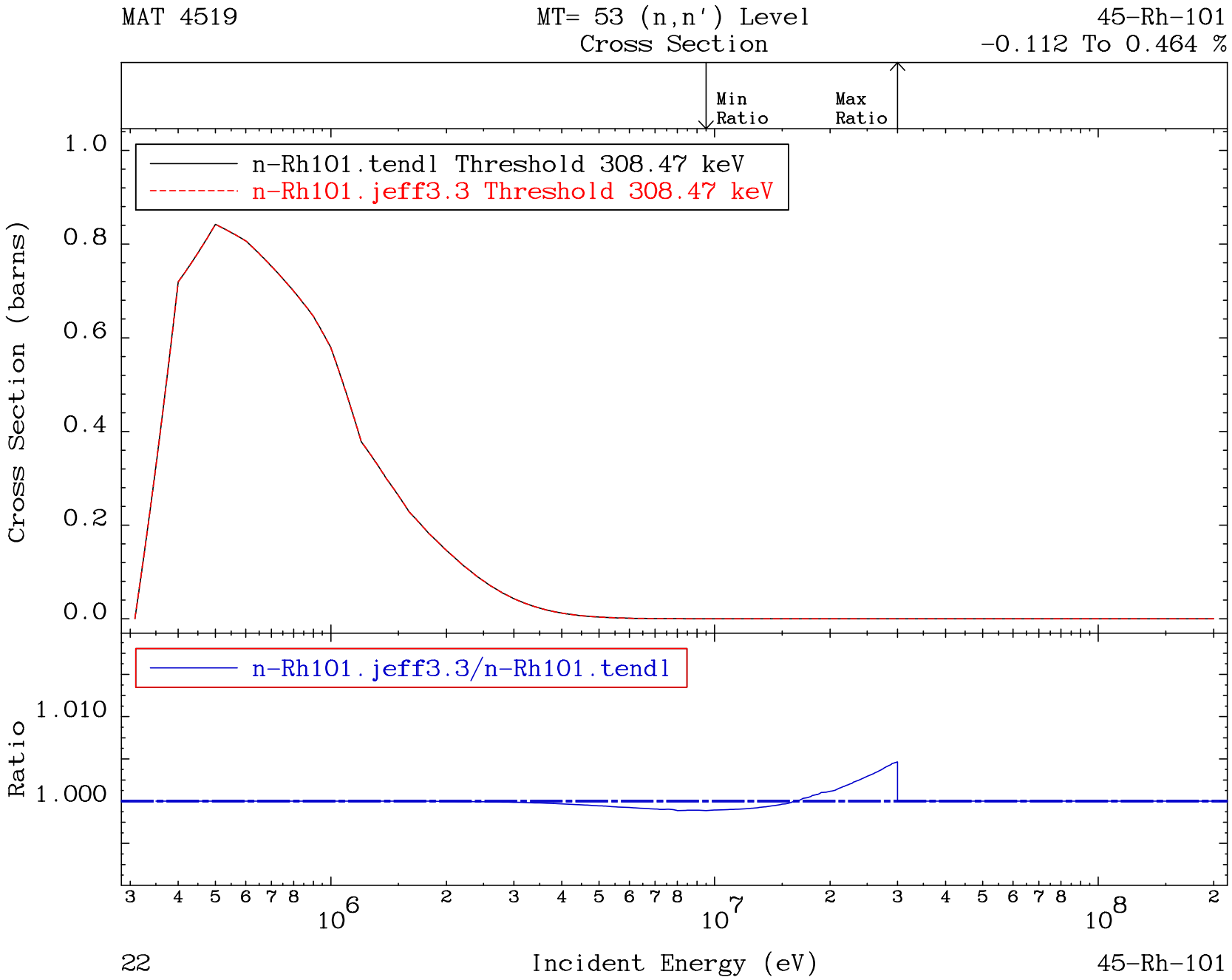

MAT 4519
(n,3n) p
Cross Section
45-Rh-101
-0.340 To 1.755 %
Max
Ratio
n-Rh101.tendl Threshold 22.845 MeV
n-Rh101.jeff3.3 Threshold 22.845 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.02
1.01
1.00
40
60
80
100
120
140
160
180
200
17
Incident Energy (MeV)
45-Rh-101

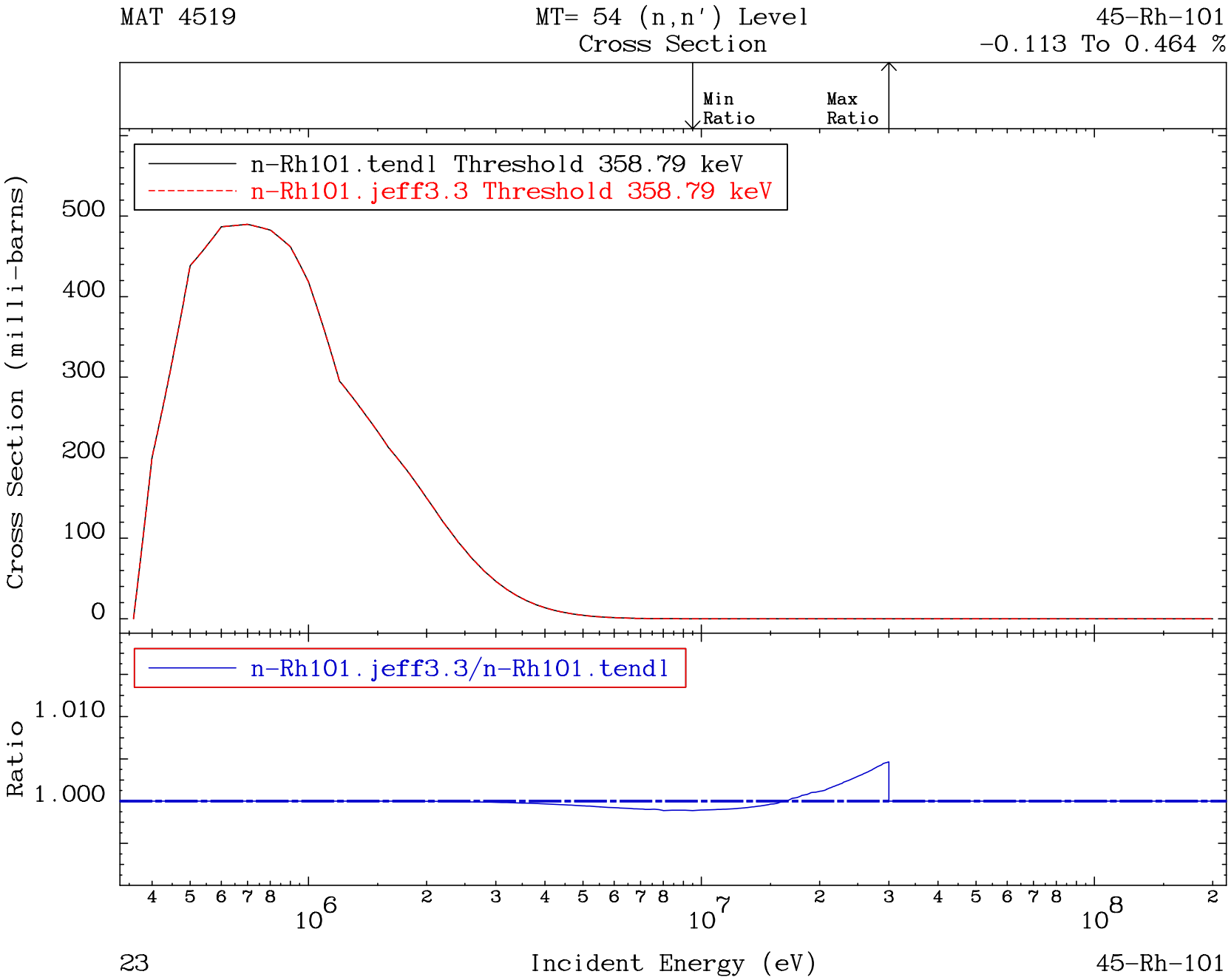

MAT 4519
(n,2n) p
Cross Section
45-Rh-101
0.000 To 1.878 %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 14.809 MeV
n-Rh101.jeff3.3 Threshold 14.809 MeV
Cross Section (micro-barns)
800
600
400
200
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
45-Rh-101

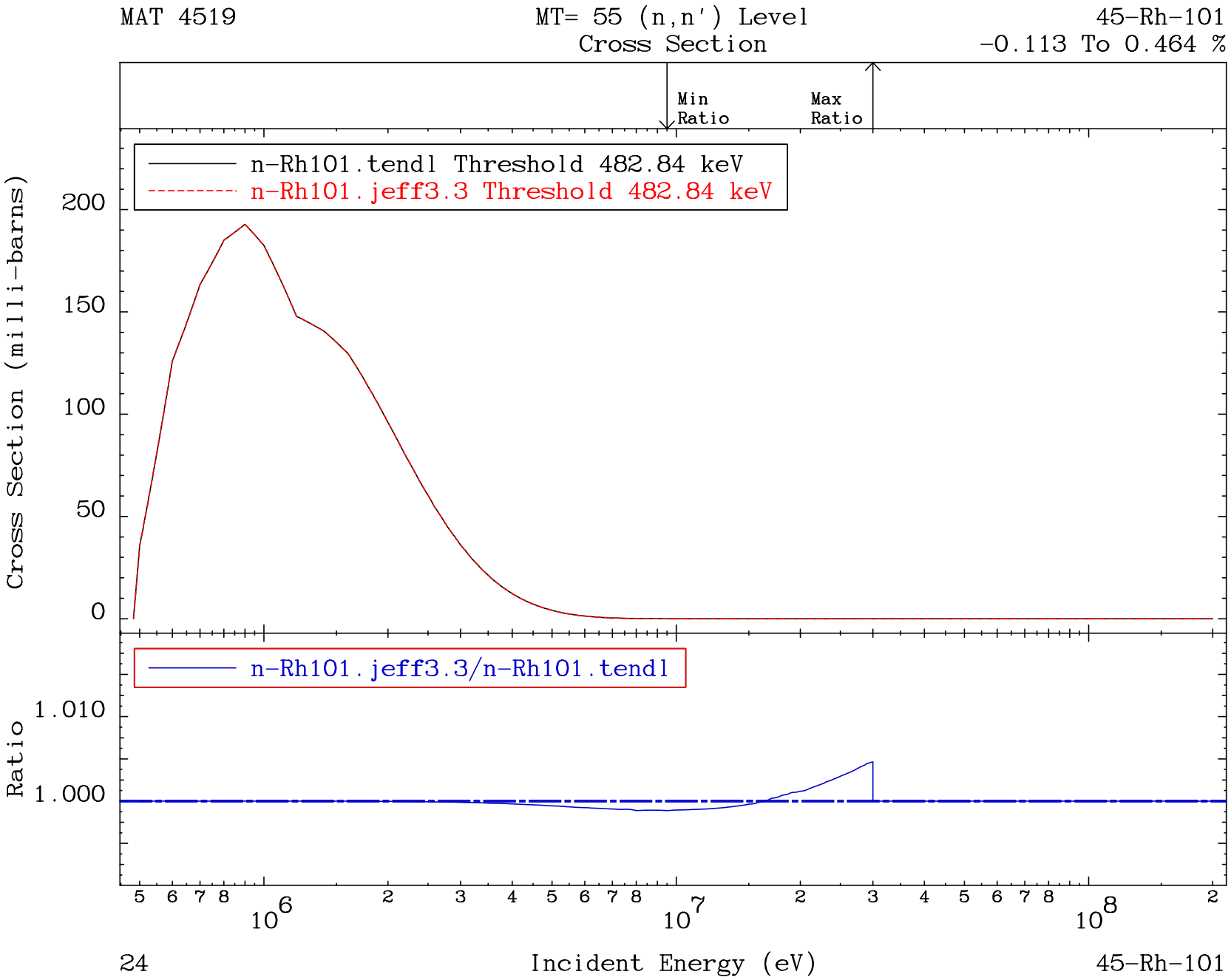

MAT 4519
(n,n') p α
Cross Section
45-Rh-101
-57.43 To 3706. %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 8.4147 MeV
n-Rh101.jeff3.3 Threshold 8.4147 MeV
Cross Section (micro-barns)
300
250
200
150
100
50
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
10^2
10^1
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
45-Rh-101

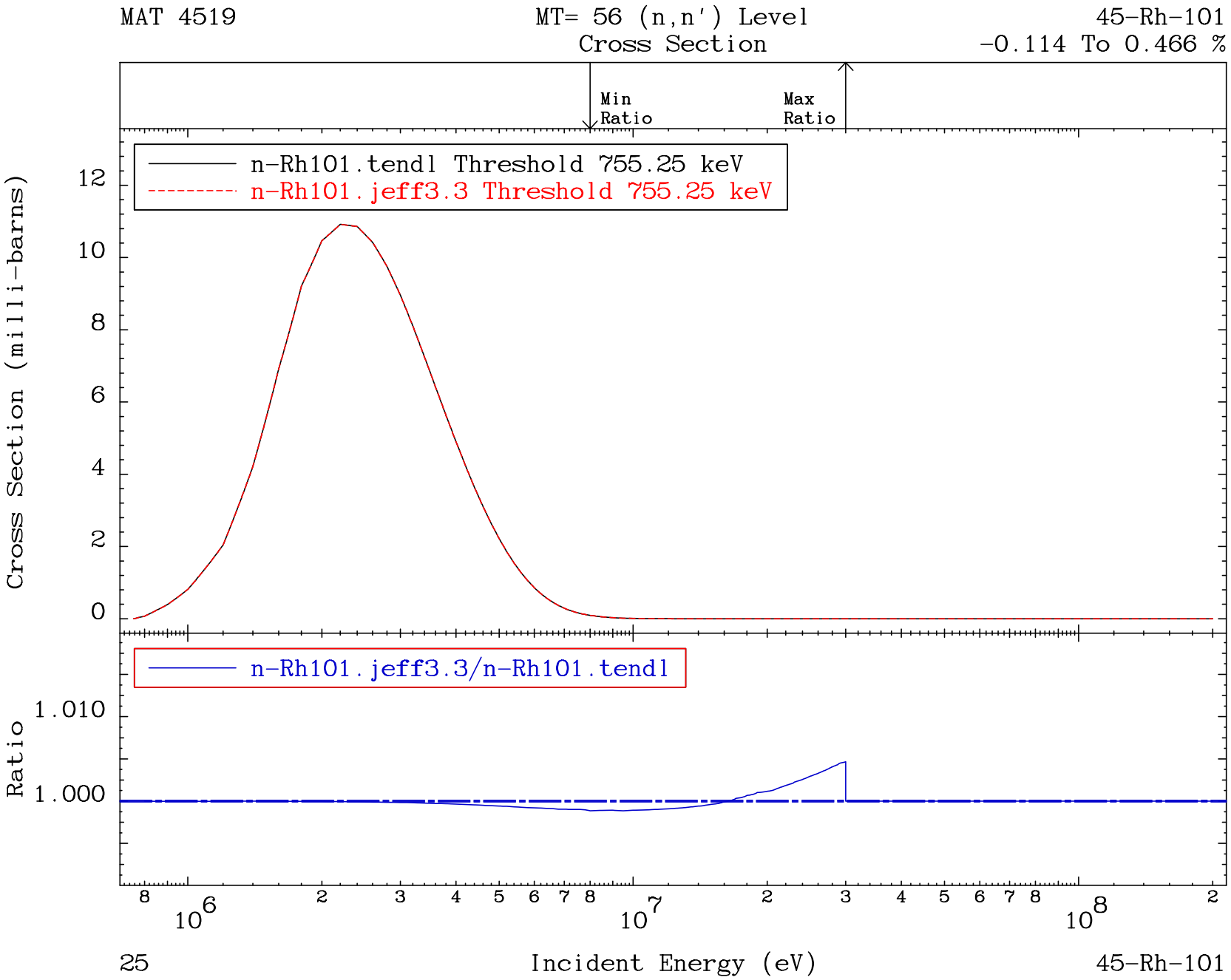

MAT 4519
MT= 51 (n,n') Level
Cross Section
45-Rh-101
-0.114 To 0.465 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 158.89 keV
n-Rh101.jeff3.3 Threshold 158.89 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.010
1.000
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
20
Incident Energy (eV)
45-Rh-101

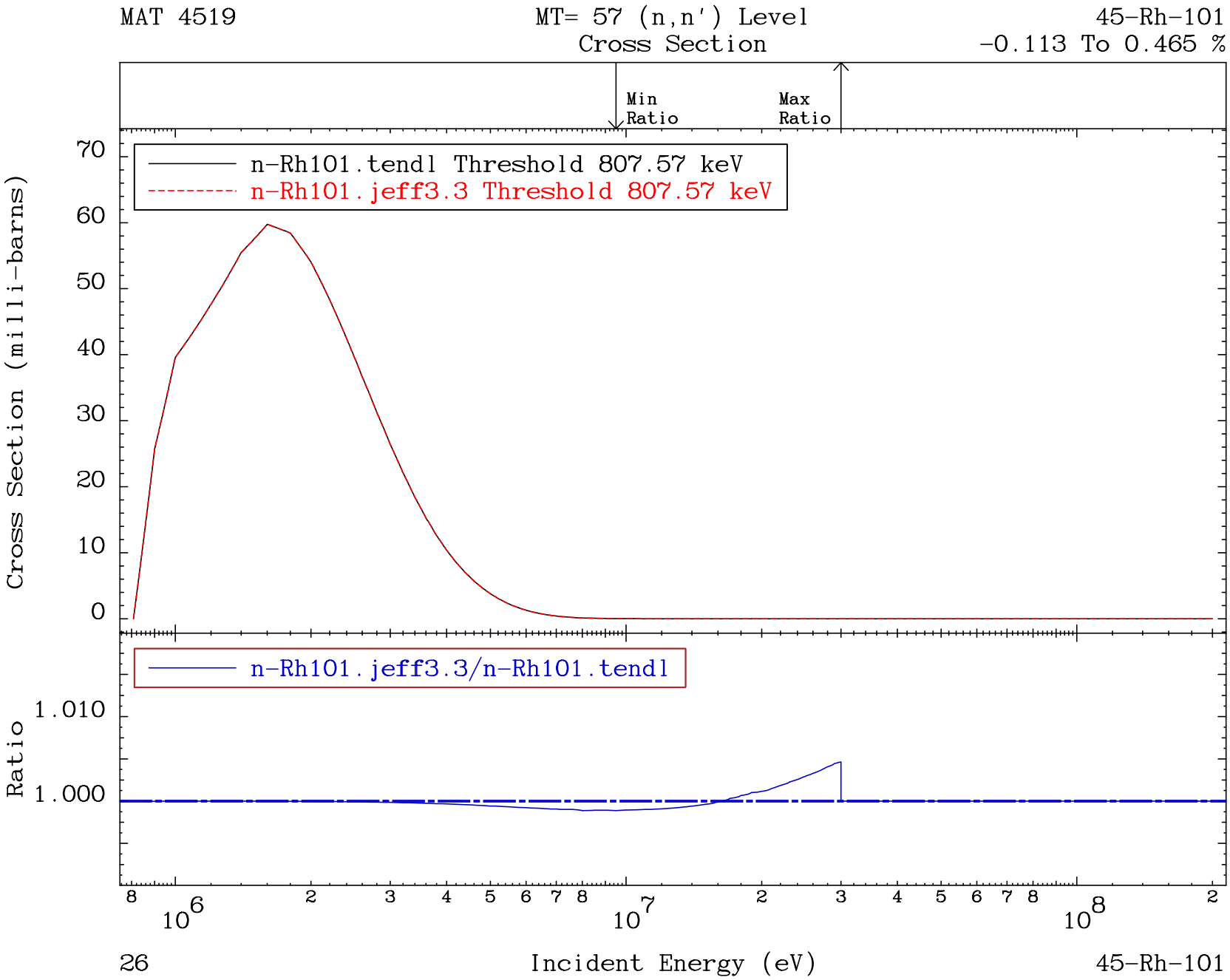

MAT 4519
MT= 52 (n,n') Level
Cross Section
45-Rh-101
-0.113 To 0.465 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 183.60 keV
n-Rh101.jeff3.3 Threshold 183.60 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.010
1.000
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
21
Incident Energy (eV)
45-Rh-101

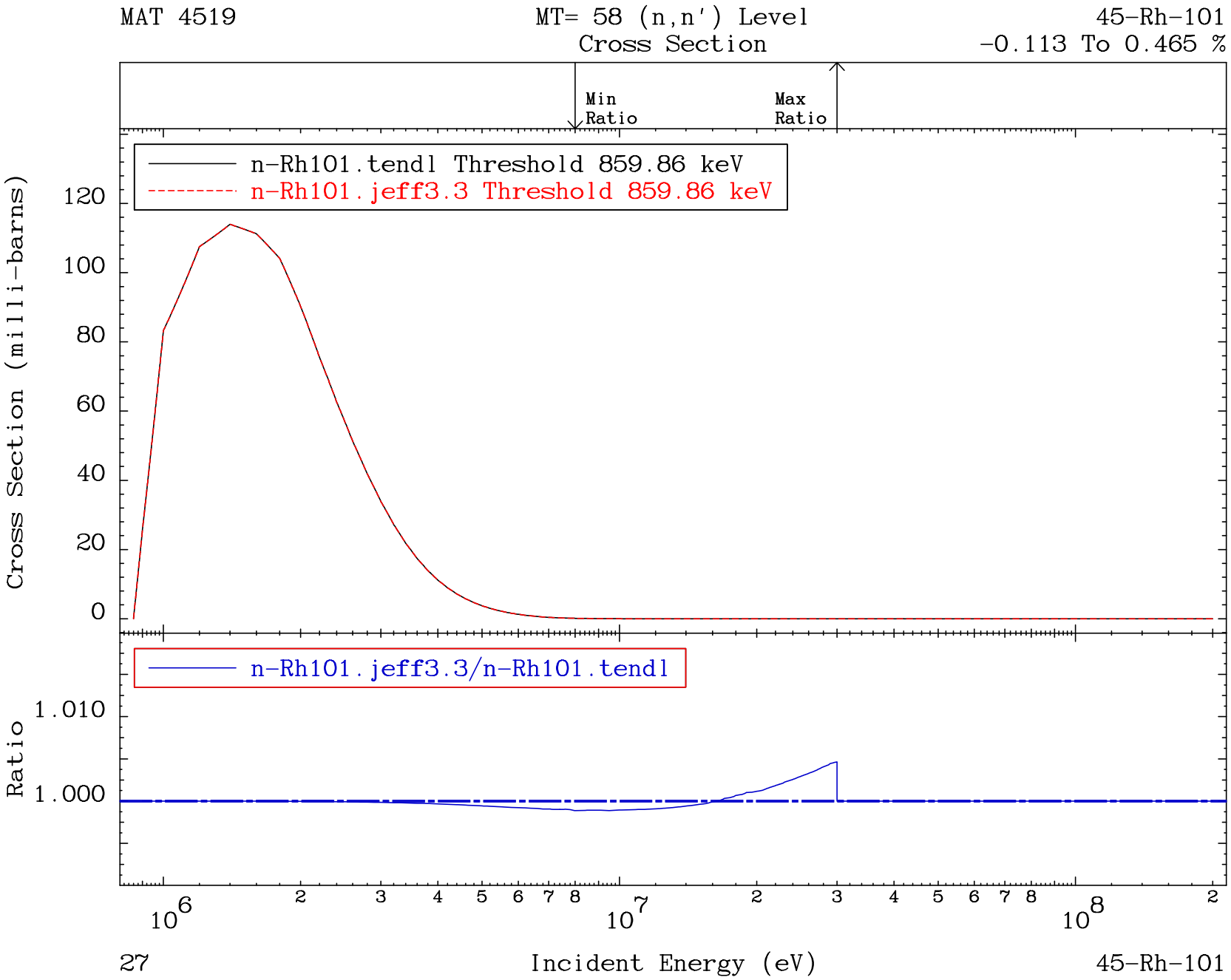

MAT 4519
MT= 53 (n,n') Level
Cross Section
45-Rh-101
-0.112 To 0.464 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 308.47 keV
n-Rh101.jeff3.3 Threshold 308.47 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.010
1.000
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
45-Rh-101

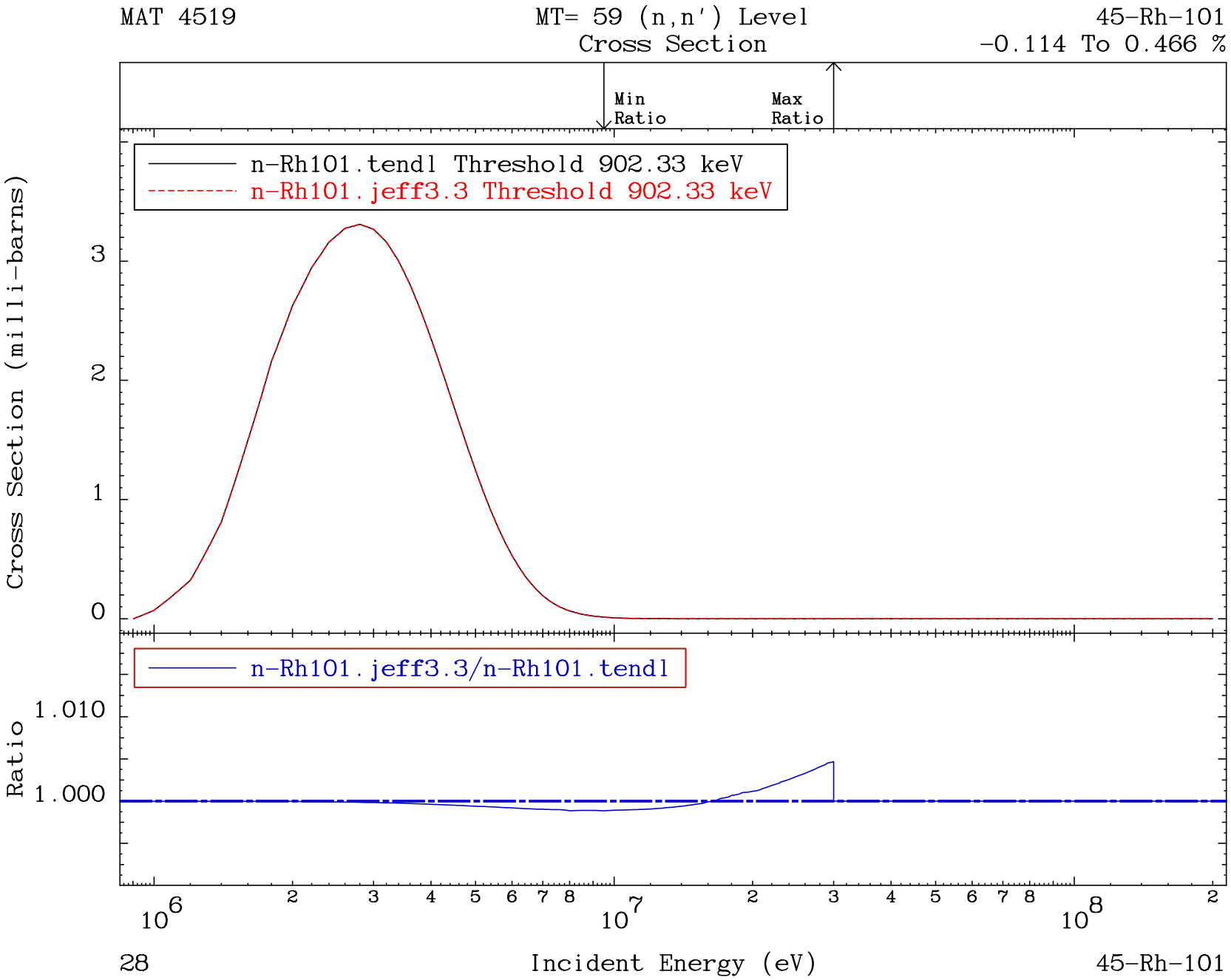

MAT 4519
MT= 54 (n,n') Level
Cross Section
45-Rh-101
-0.113 To 0.464 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 358.79 keV
n-Rh101.jeff3.3 Threshold 358.79 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.010
1.000
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
45-Rh-101

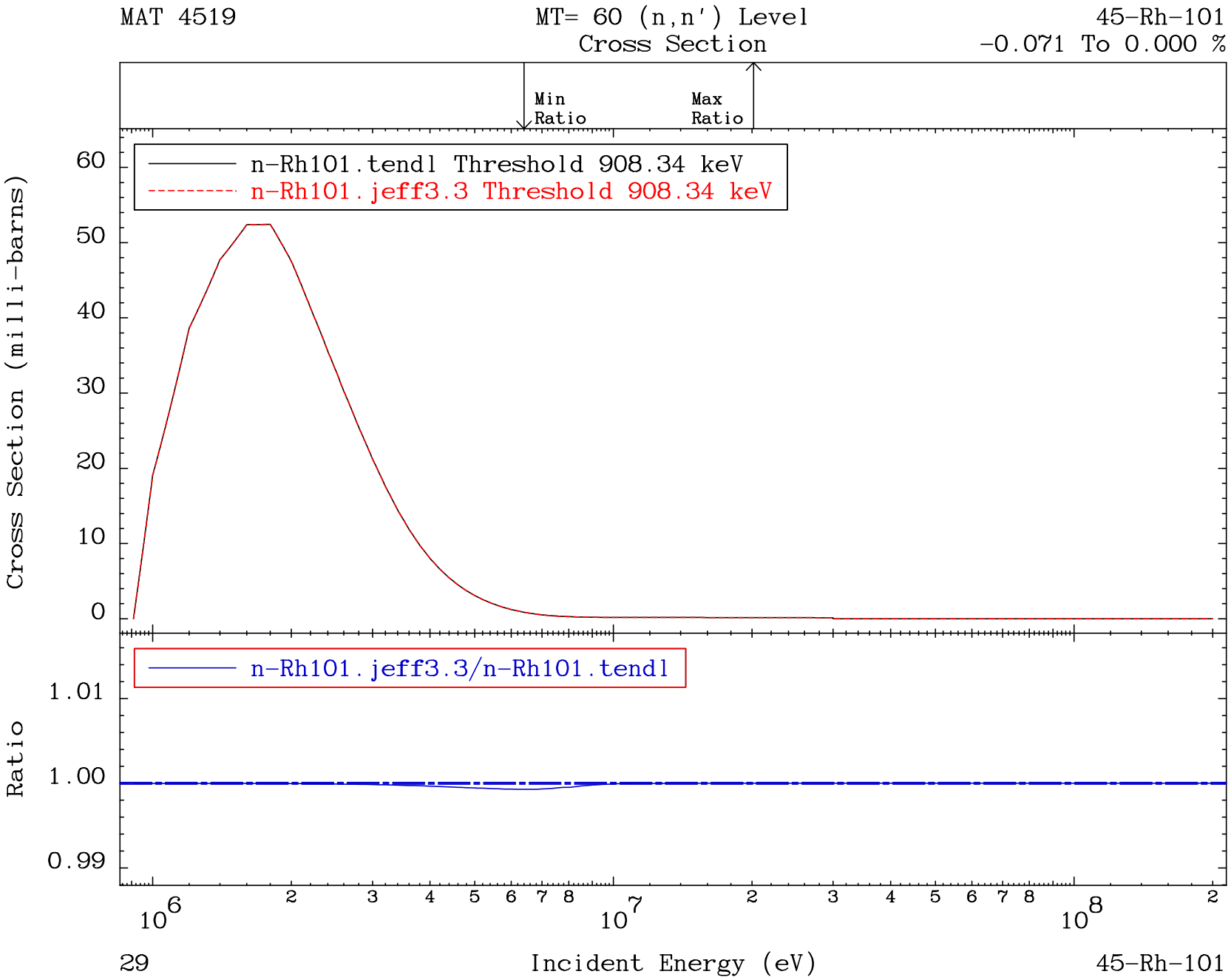

MAT 4519
MT= 55 (n,n') Level
Cross Section
45-Rh-101
-0.113 To 0.464 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 482.84 keV
n-Rh101.jeff3.3 Threshold 482.84 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.010
1.000
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
45-Rh-101

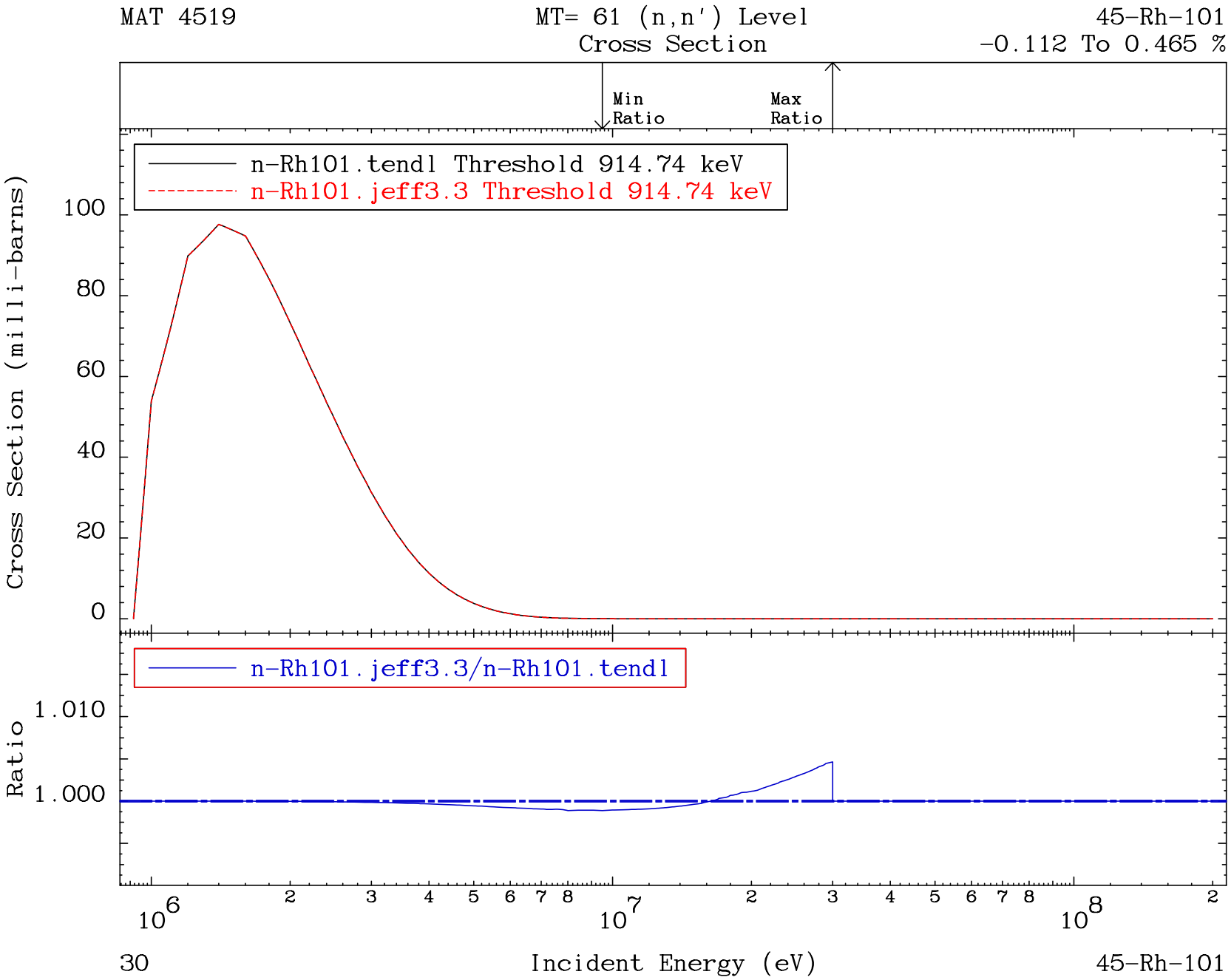

MAT 4519
MT= 56 (n,n') Level
Cross Section
45-Rh-101
-0.114 To 0.466 %
Min
Ratio
Max
Ratio
n-Rh101.tendl Threshold 755.25 keV
n-Rh101.jeff3.3 Threshold 755.25 keV
Cross Section (milli-barns)
12
10
8
6
4
2
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.010
1.000
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
25
Incident Energy (eV)
45-Rh-101

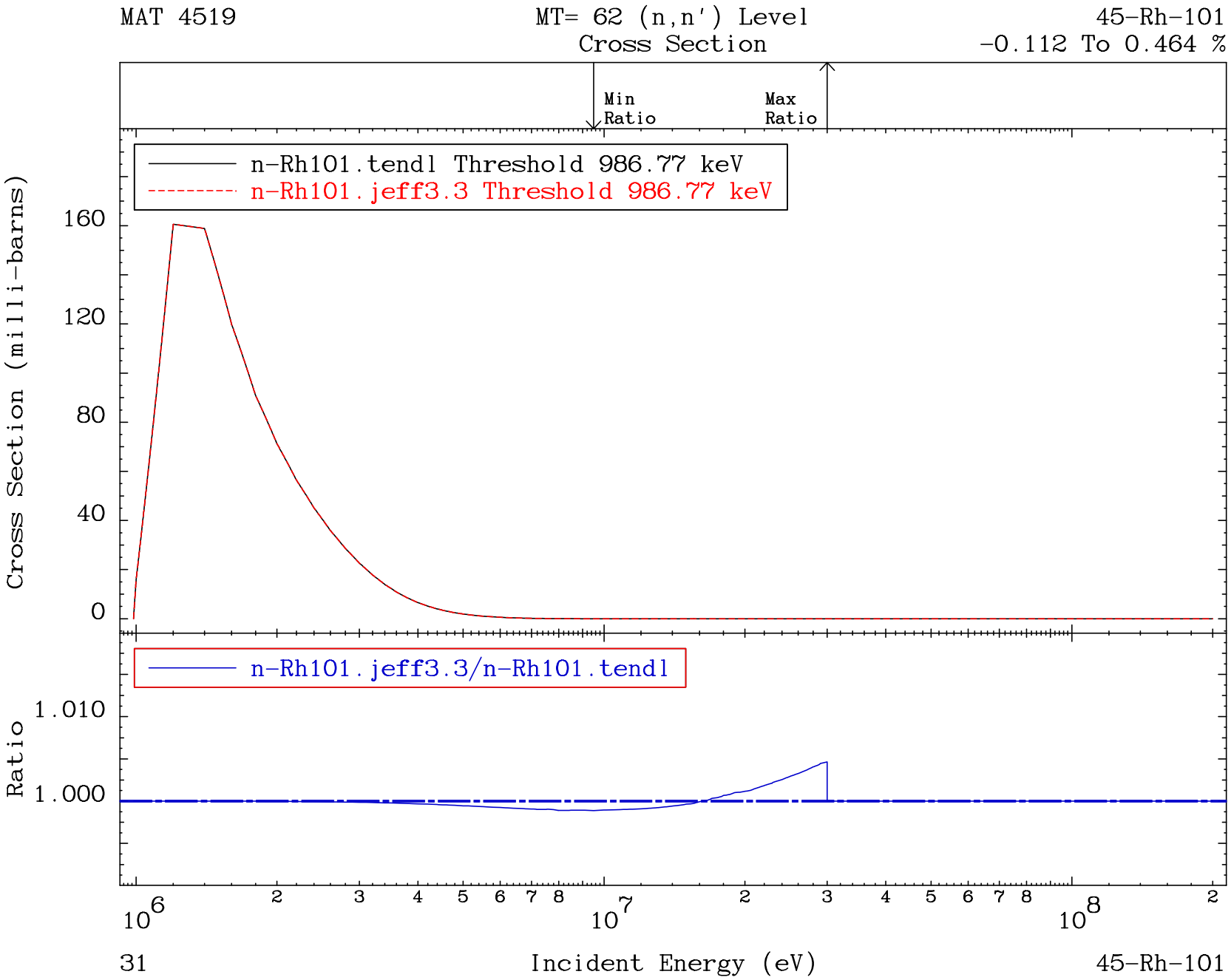

MAT 4519
MT= 57 (n,n') Level
Cross Section
45-Rh-101
-0.113 To 0.465 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 807.57 keV
n-Rh101.jeff3.3 Threshold 807.57 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.010
1.000
8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2
10^6
10^7
10^8
26
Incident Energy (eV)
45-Rh-101

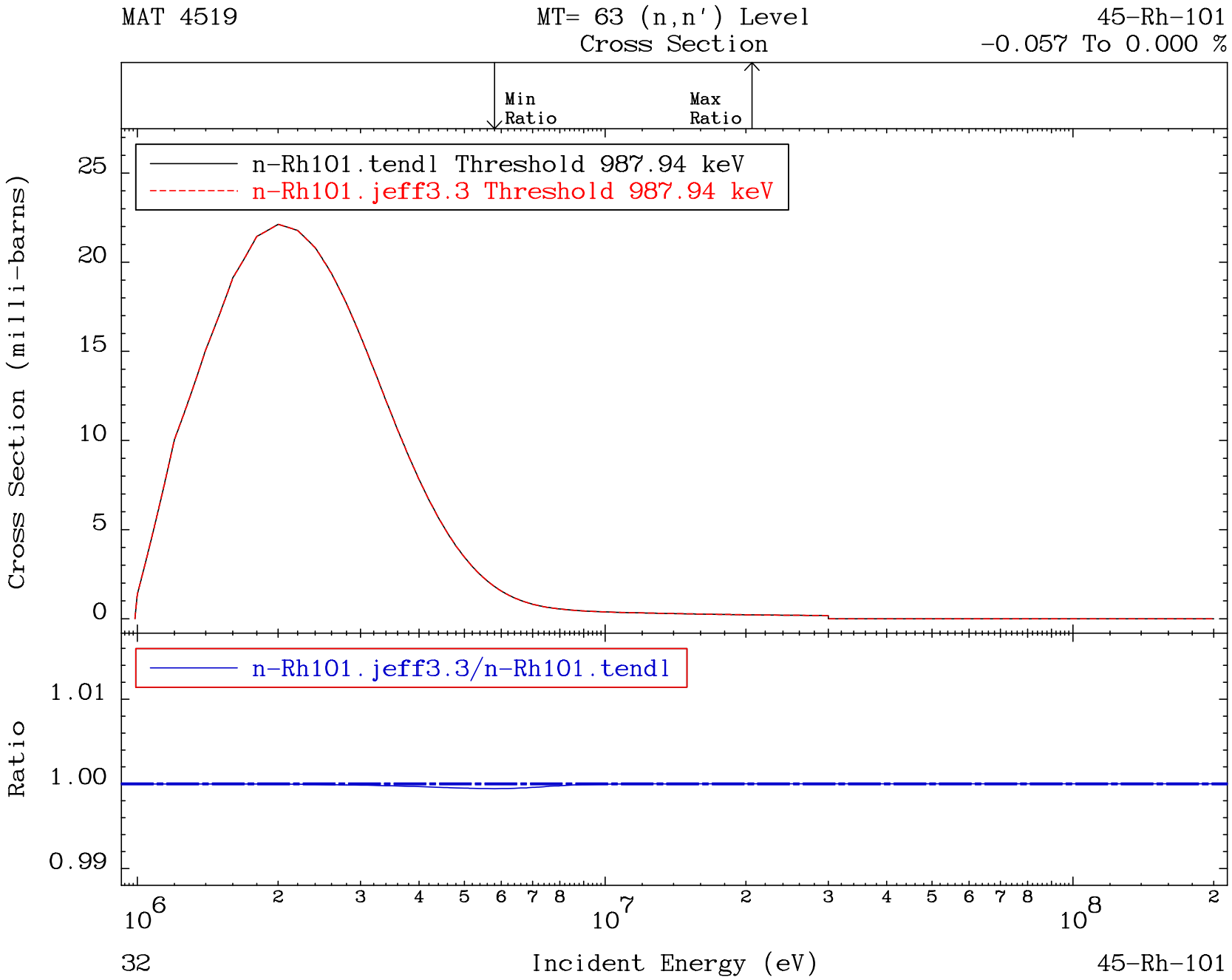

MAT 4519
MT= 58 (n,n') Level
Cross Section
45-Rh-101
-0.113 To 0.465 %
Min
Ratio
Max
Ratio
n-Rh101.tendl Threshold 859.86 keV
n-Rh101.jeff3.3 Threshold 859.86 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.010
1.000
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
27
Incident Energy (eV)
45-Rh-101

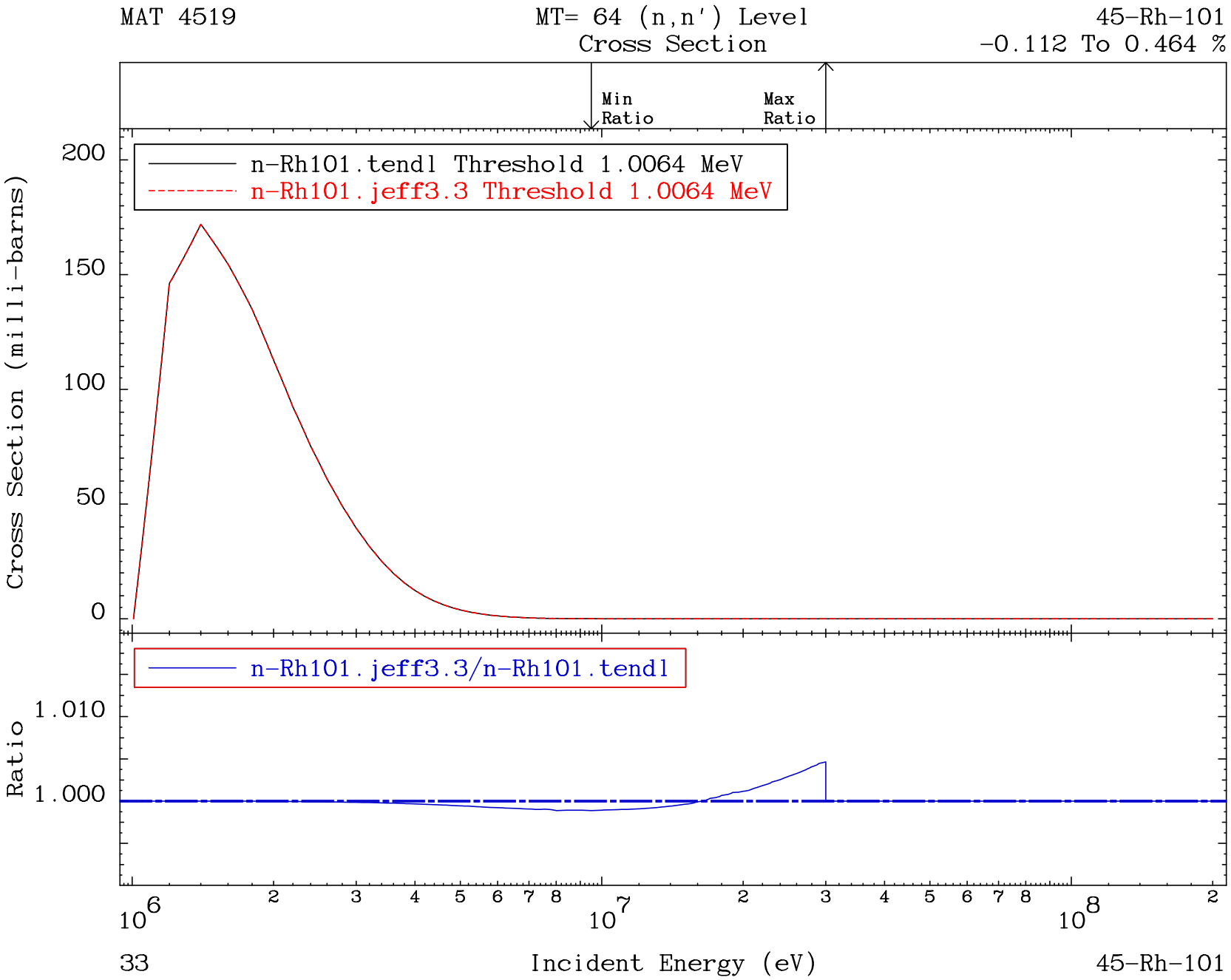

MAT 4519
MT= 59 (n,n') Level
Cross Section
45-Rh-101
-0.114 To 0.466 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 902.33 keV
n-Rh101.jeff3.3 Threshold 902.33 keV
Cross Section (milli-barns)
0
1
2
3
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.010
1.000
10^6
10^7
10^8
28
Incident Energy (eV)
45-Rh-101

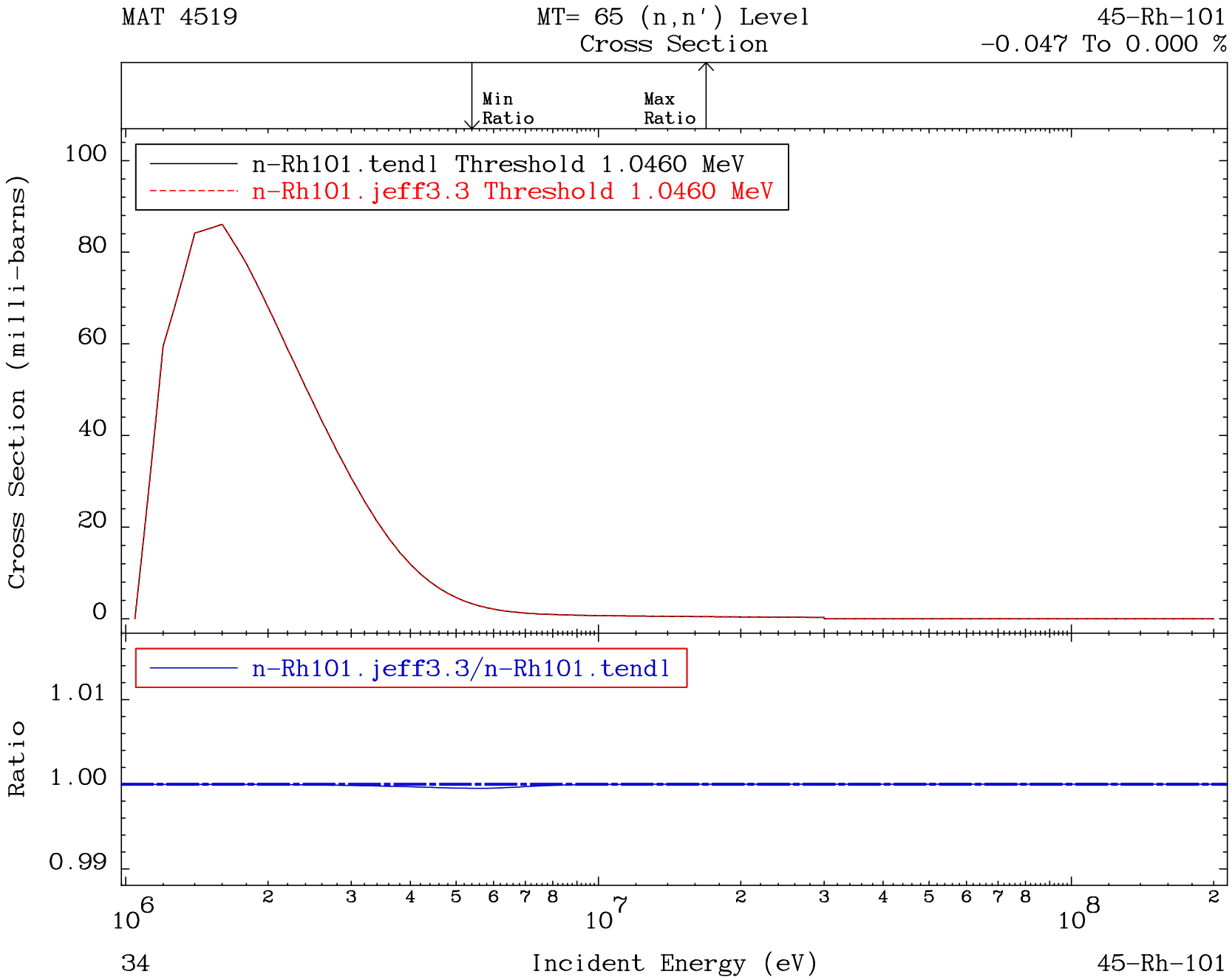

MAT 4519
MT= 60 (n,n') Level
Cross Section
45-Rh-101
-0.071 To 0.000 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 908.34 keV
n-Rh101.jeff3.3 Threshold 908.34 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.01
1.00
0.99
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
45-Rh-101

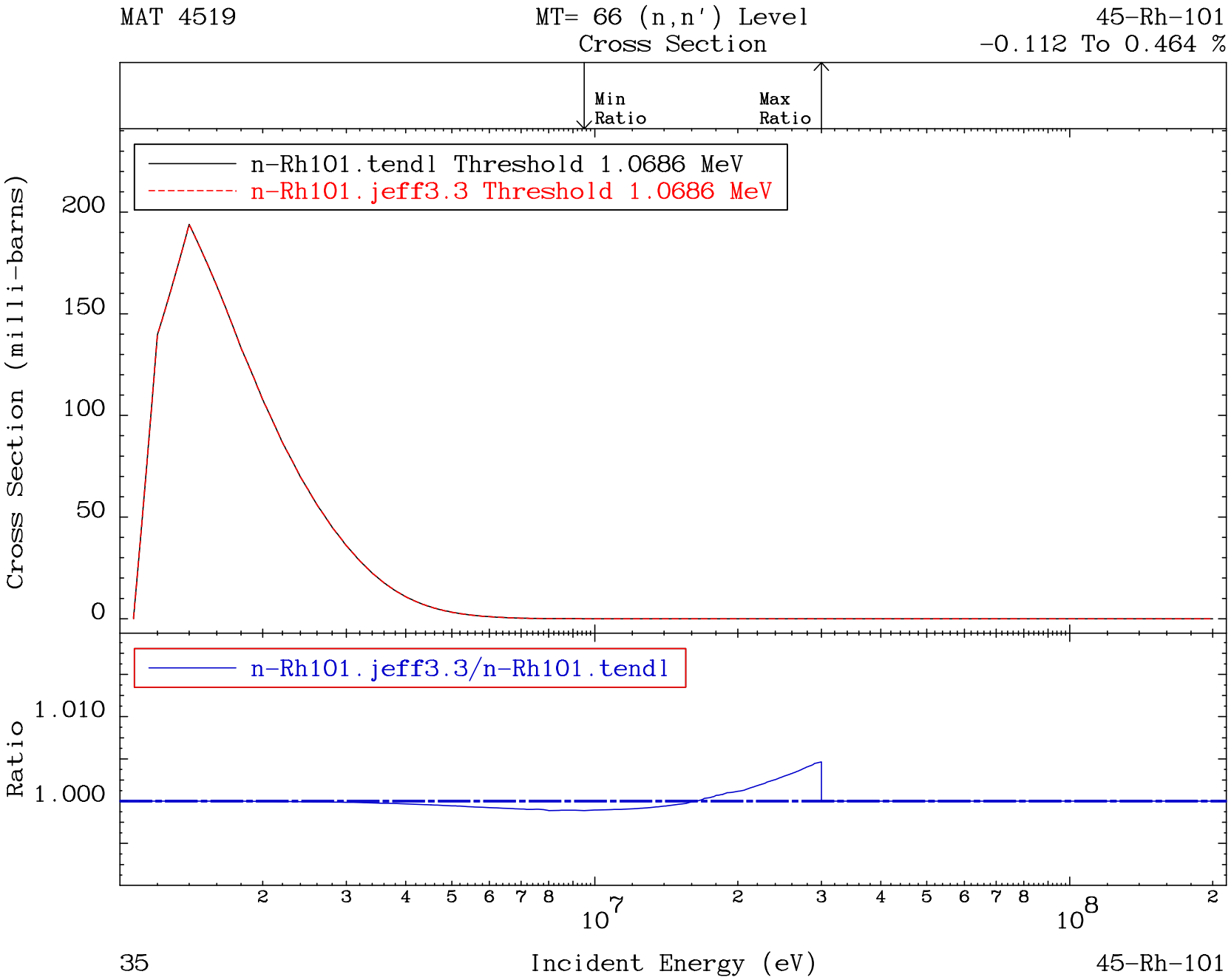

MAT 4519
MT= 61 (n,n') Level
Cross Section
45-Rh-101
-0.112 To 0.465 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 914.74 keV
n-Rh101.jeff3.3 Threshold 914.74 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.010
1.000
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
30
Incident Energy (eV)
45-Rh-101

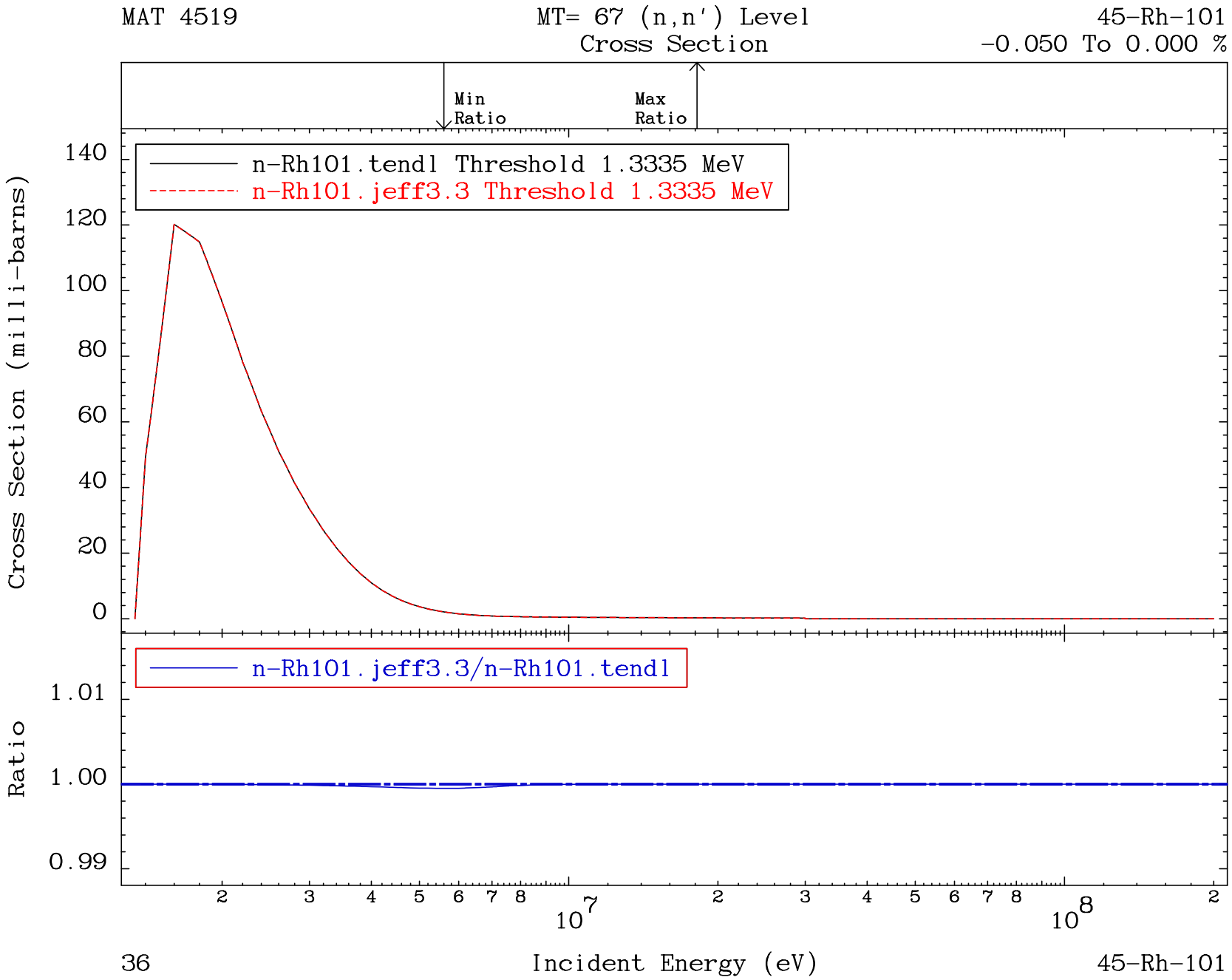

MAT 4519
MT= 62 (n,n') Level
Cross Section
45-Rh-101
-0.112 To 0.464 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 986.77 keV
n-Rh101.jeff3.3 Threshold 986.77 keV
Cross Section (milli-barns)
160
120
80
40
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.010
1.000
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
31
Incident Energy (eV)
45-Rh-101

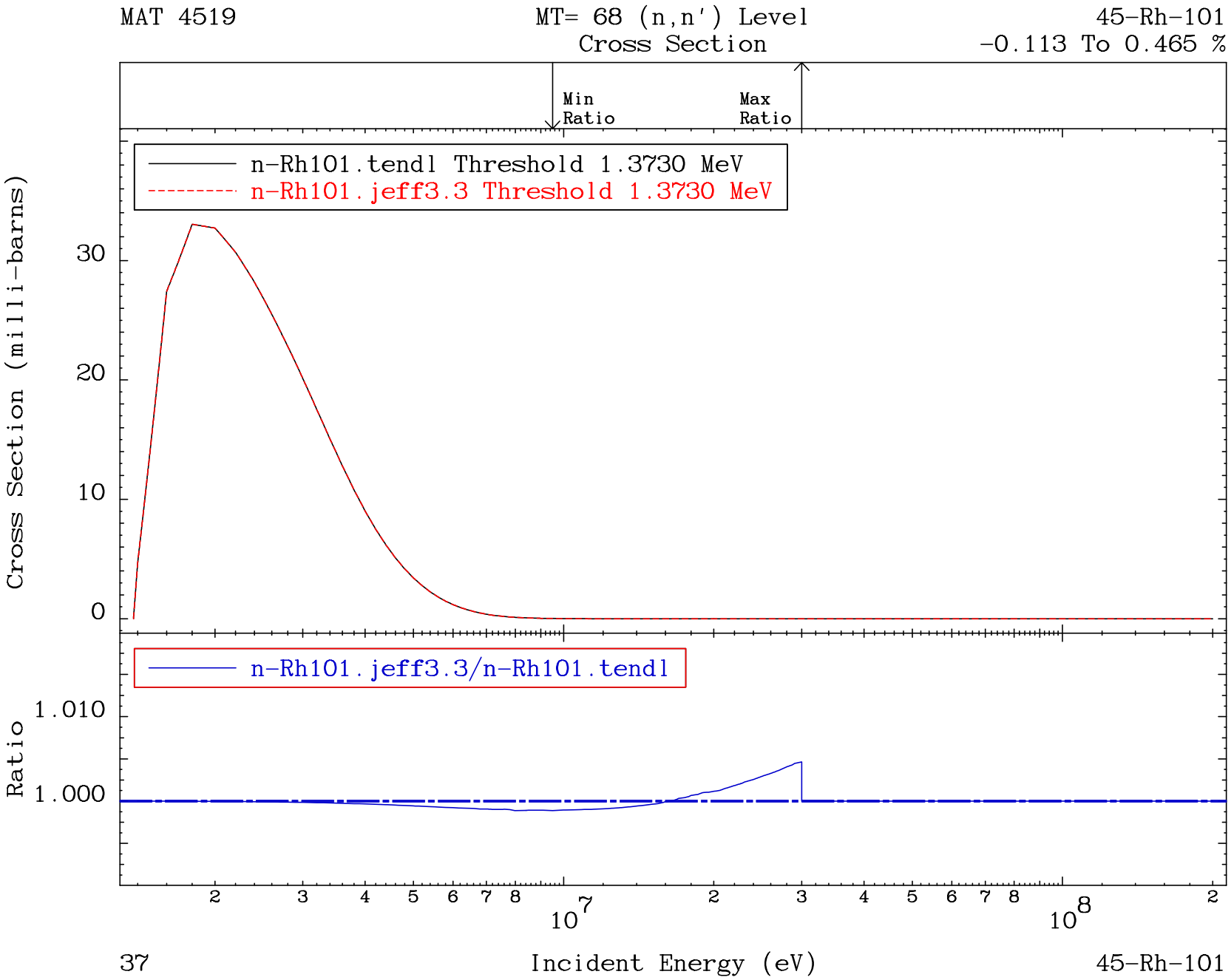

MAT 4519
MT= 63 (n,n') Level
Cross Section
45-Rh-101
-0.057 To 0.000 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 987.94 keV
n-Rh101.jeff3.3 Threshold 987.94 keV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.01
1.00
0.99
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
32
Incident Energy (eV)
45-Rh-101

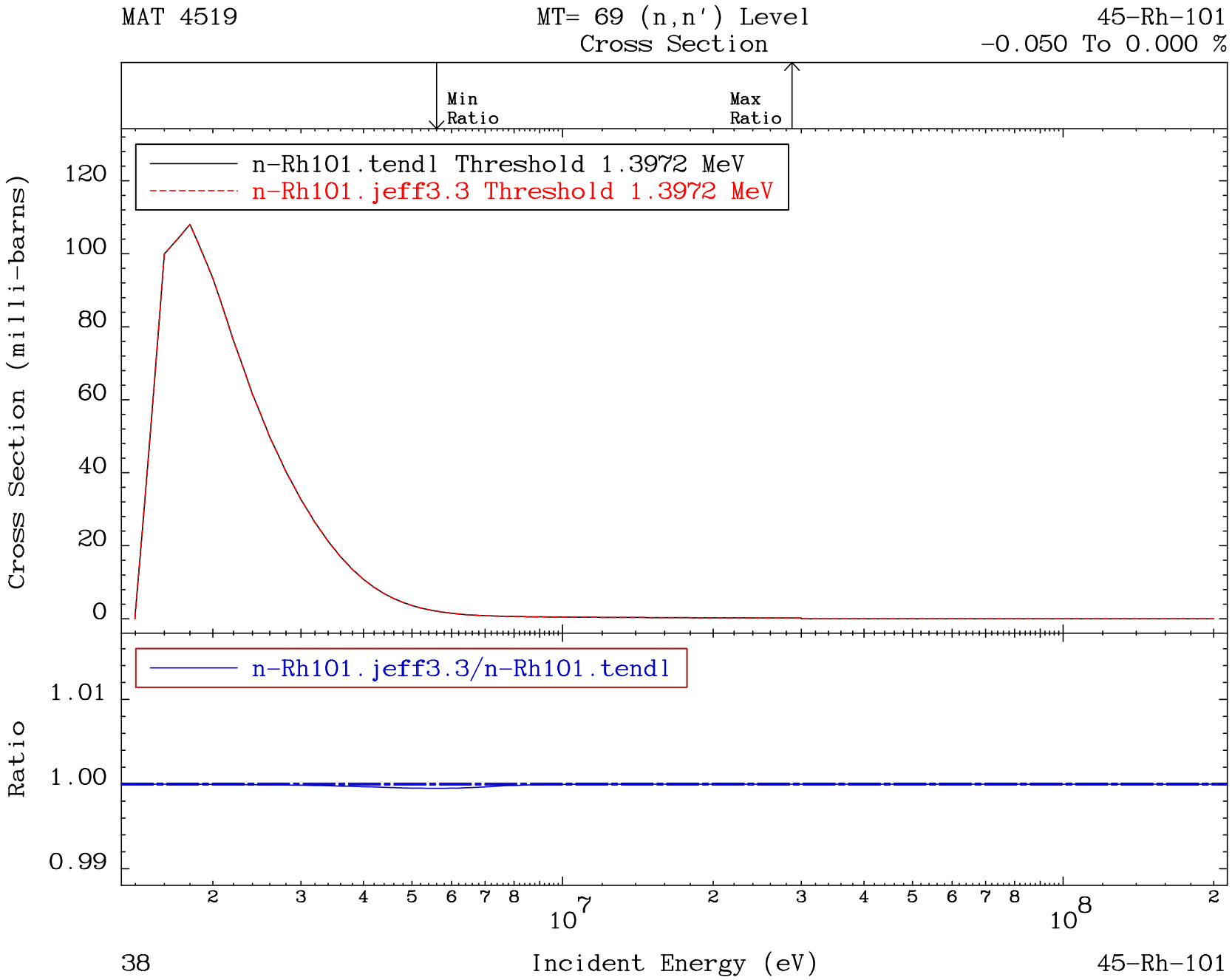

MAT 4519
MT= 64 (n,n') Level
Cross Section
45-Rh-101
-0.112 To 0.464 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 1.0064 MeV
n-Rh101.jeff3.3 Threshold 1.0064 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.010
1.000
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
33
Incident Energy (eV)
45-Rh-101

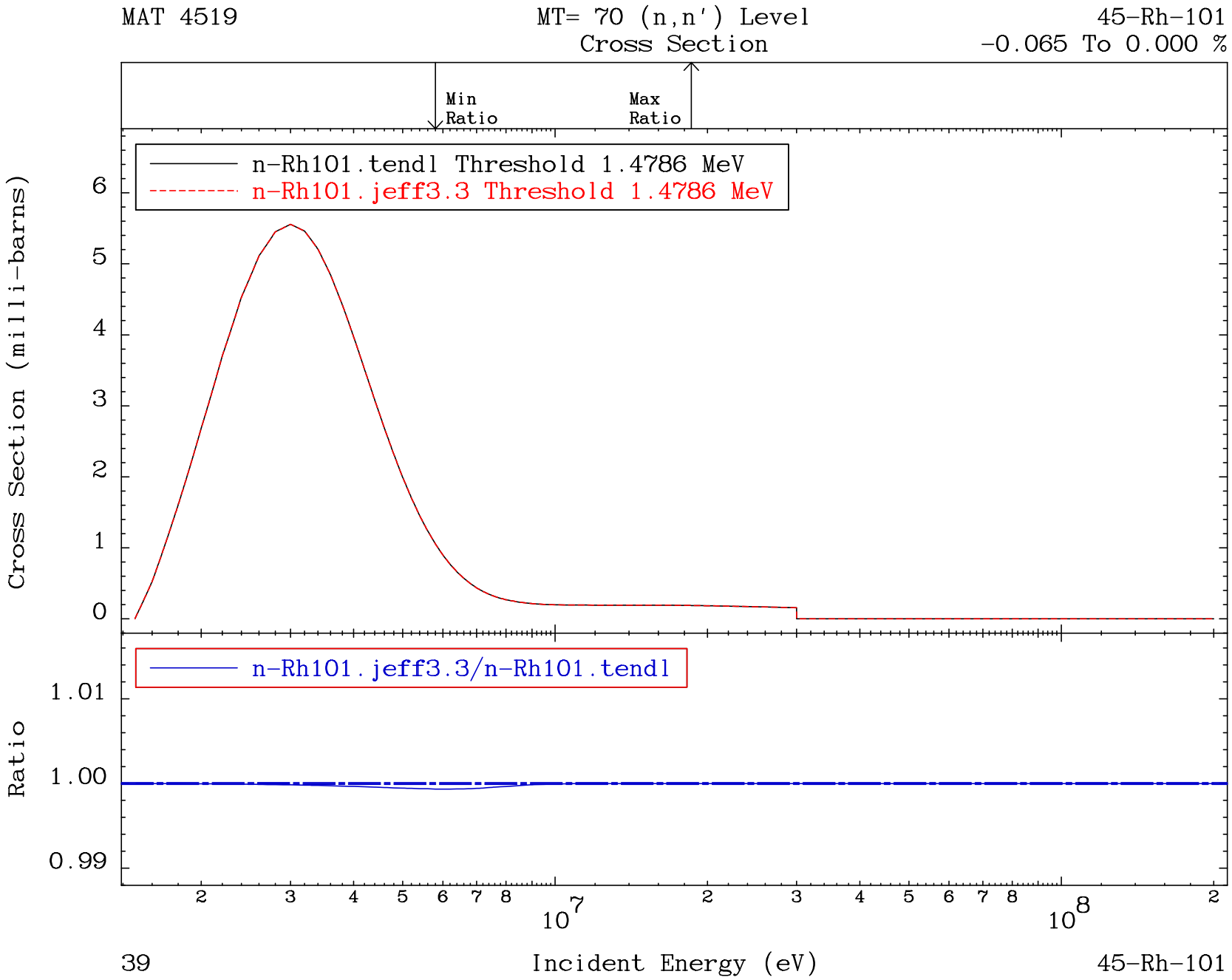

MAT 4519
MT= 65 (n,n') Level
Cross Section
45-Rh-101
-0.047 To 0.000 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 1.0460 MeV
n-Rh101.jeff3.3 Threshold 1.0460 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.01
1.00
0.99
10^6
10^7
10^8
Incident Energy (eV)
34
45-Rh-101

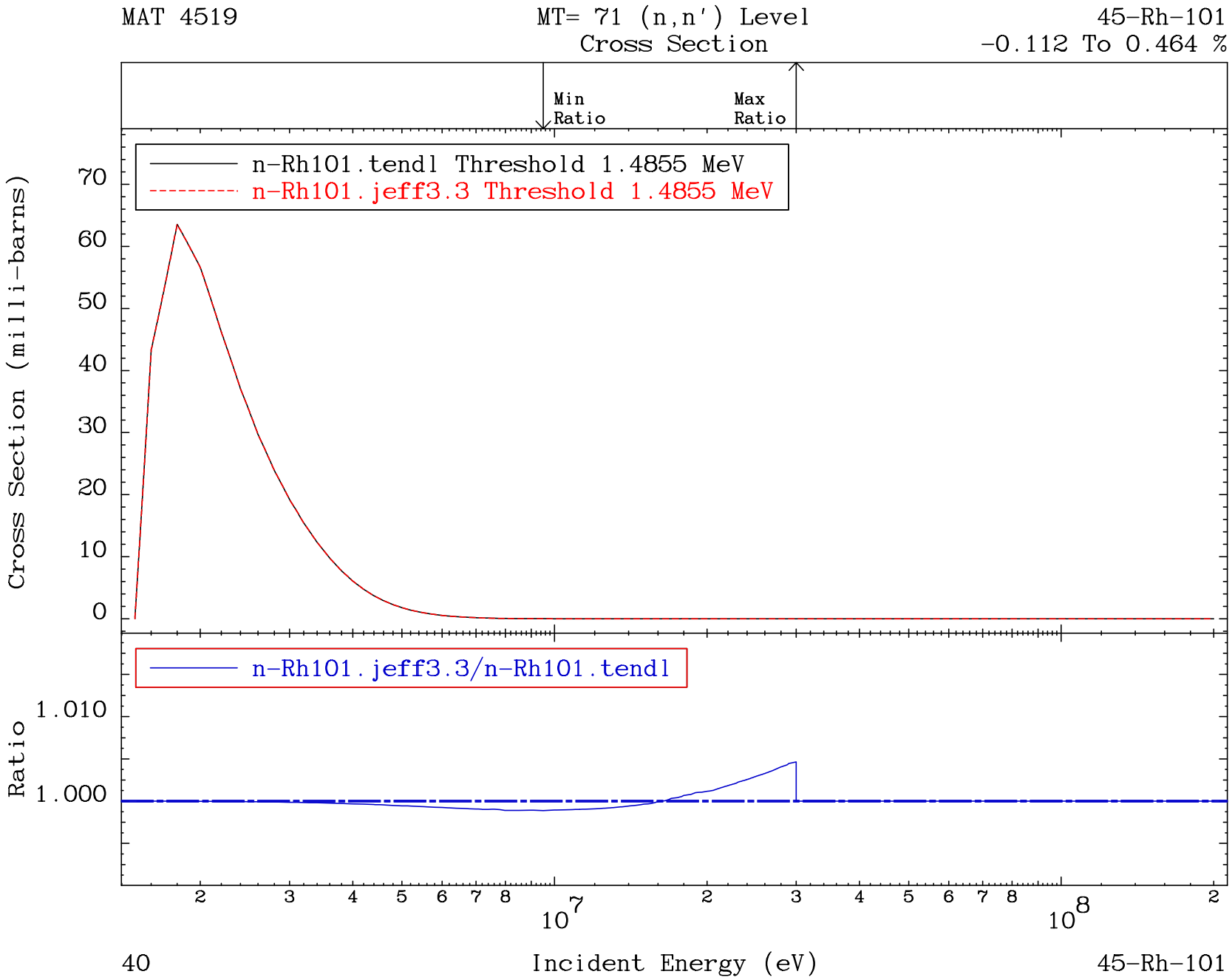

MAT 4519
MT= 66 (n,n') Level
Cross Section
45-Rh-101
-0.112 To 0.464 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 1.0686 MeV
n-Rh101.jeff3.3 Threshold 1.0686 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.010
1.000
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
35
Incident Energy (eV)
45-Rh-101

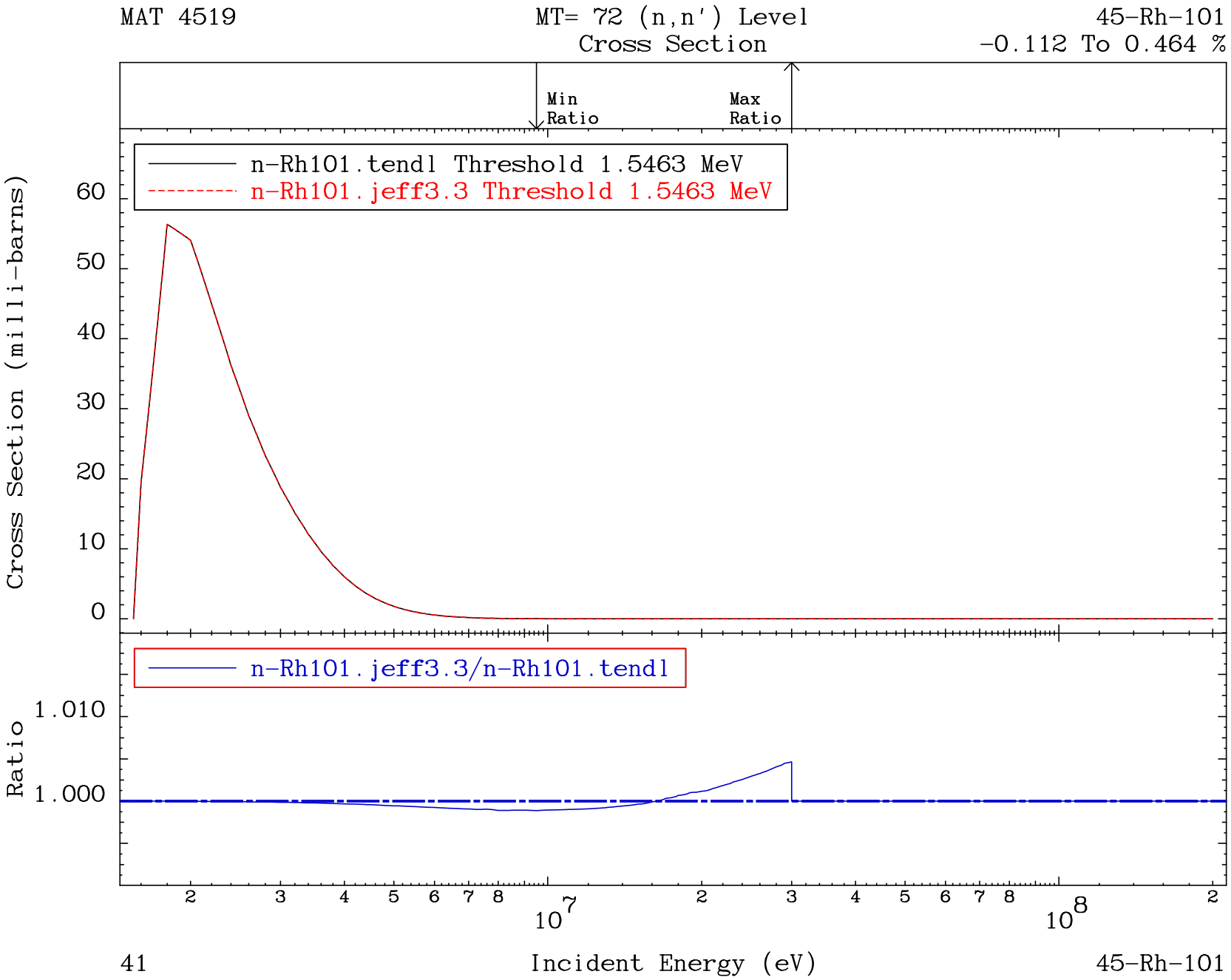

MAT 4519
MT= 67 (n,n') Level
Cross Section
45-Rh-101
-0.050 To 0.000 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 1.3335 MeV
n-Rh101.jeff3.3 Threshold 1.3335 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
36
Incident Energy (eV)
45-Rh-101

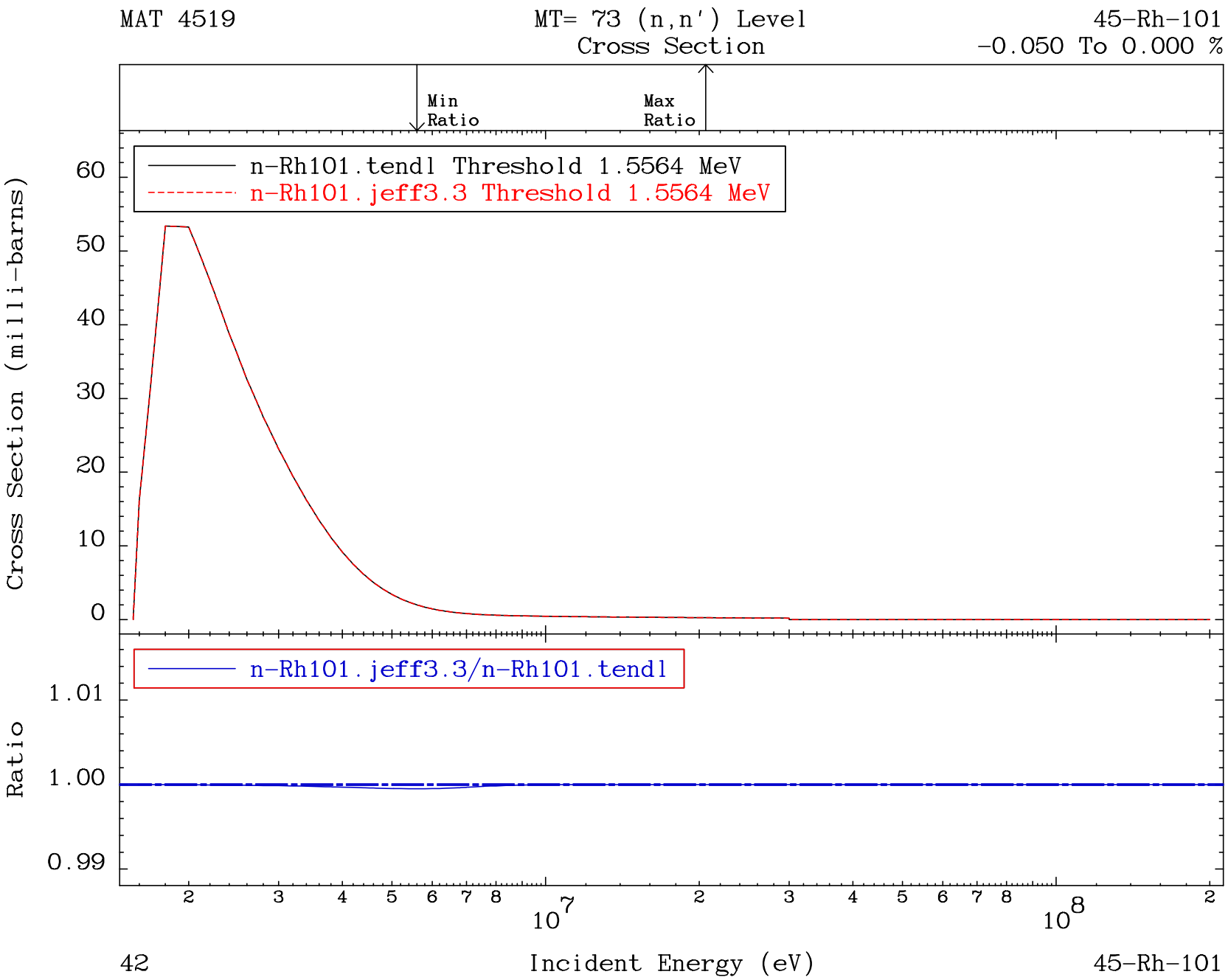

MAT 4519
MT= 68 (n,n') Level
Cross Section
45-Rh-101
-0.113 To 0.465 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 1.3730 MeV
n-Rh101.jeff3.3 Threshold 1.3730 MeV
Cross Section (milli-barns)
30
20
10
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.010
1.000
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
37
Incident Energy (eV)
45-Rh-101

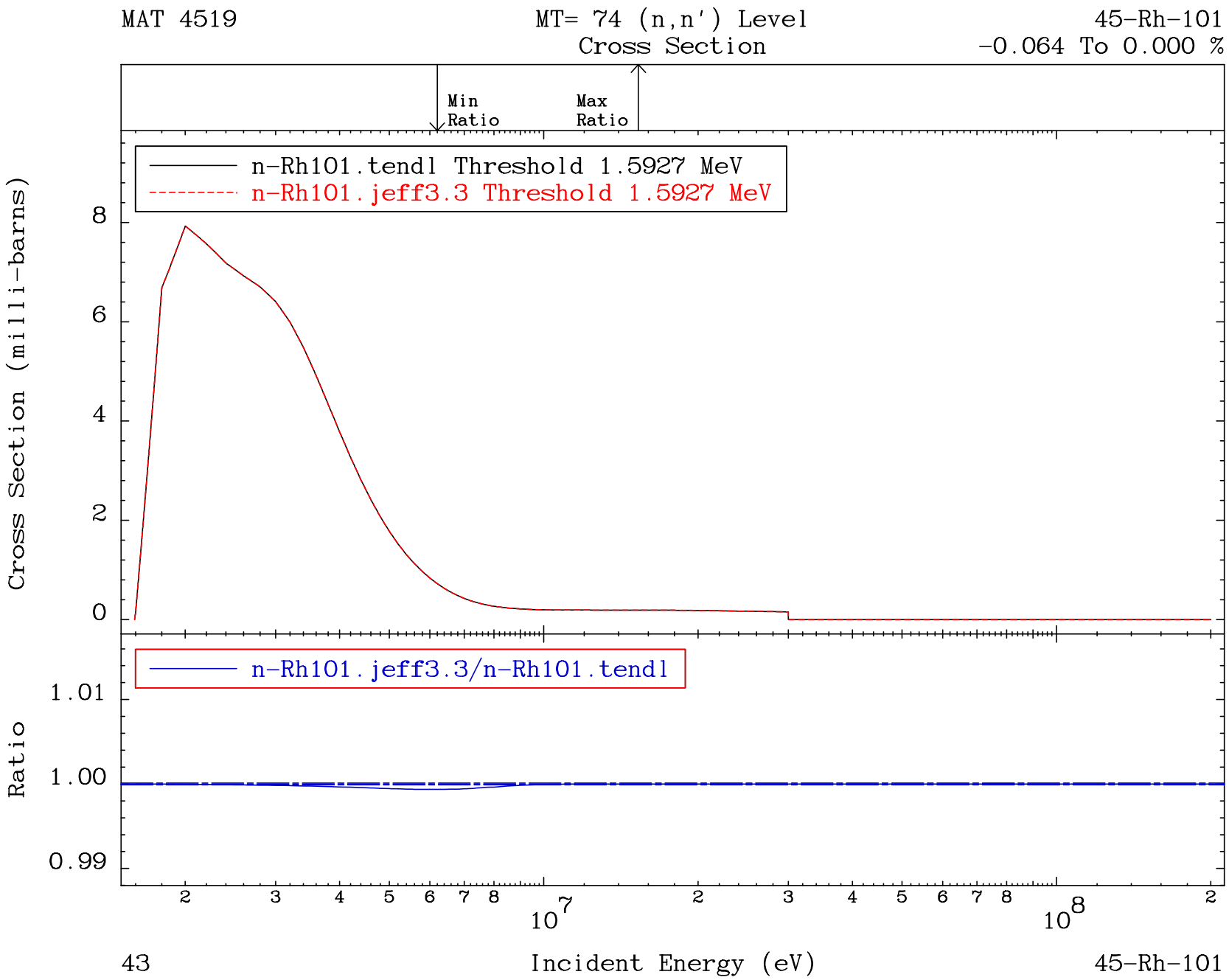

MAT 4519
MT= 69 (n,n') Level
Cross Section
45-Rh-101
-0.050 To 0.000 %
Min
Ratio
Max
Ratio
n-Rh101.tendl Threshold 1.3972 MeV
n-Rh101.jeff3.3 Threshold 1.3972 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
38
Incident Energy (eV)
45-Rh-101

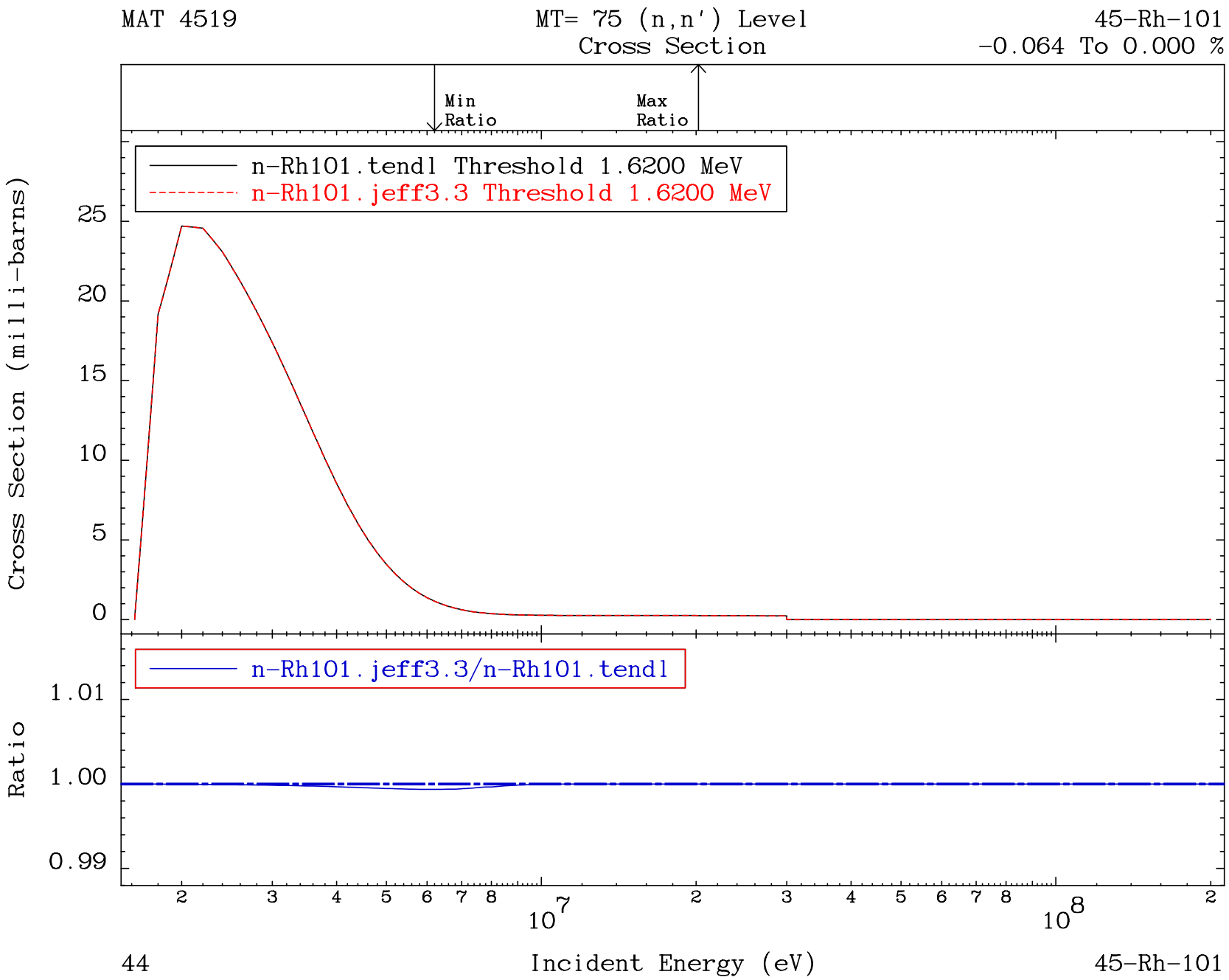

MAT 4519
MT= 70 (n,n') Level
Cross Section
45-Rh-101
-0.065 To 0.000 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 1.4786 MeV
n-Rh101.jeff3.3 Threshold 1.4786 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
0.99
1.00
1.01
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
39
Incident Energy (eV)
45-Rh-101

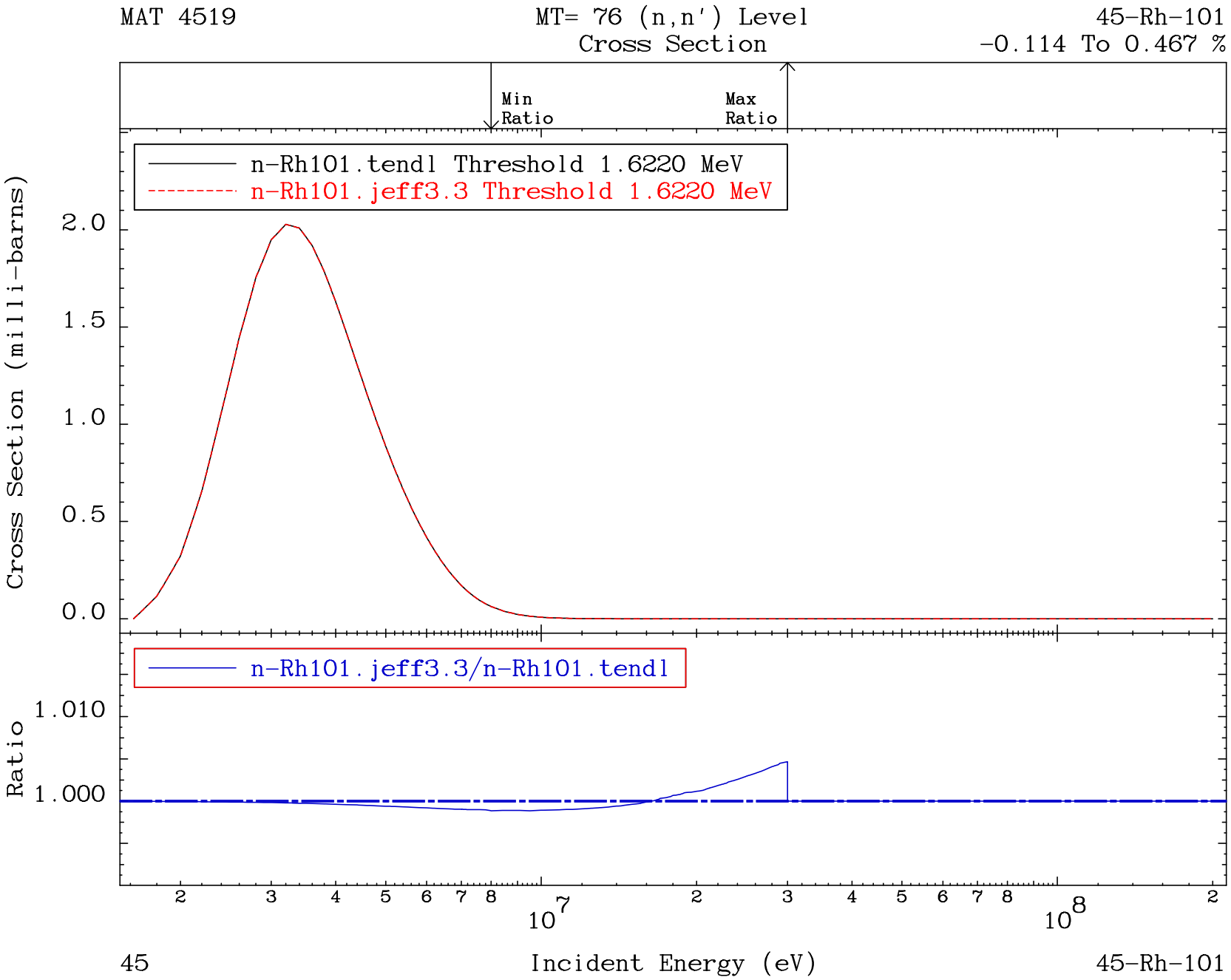

MAT 4519
MT= 71 (n,n') Level
Cross Section
45-Rh-101
-0.112 To 0.464 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 1.4855 MeV
n-Rh101.jeff3.3 Threshold 1.4855 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.010
1.000
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
40
Incident Energy (eV)
45-Rh-101

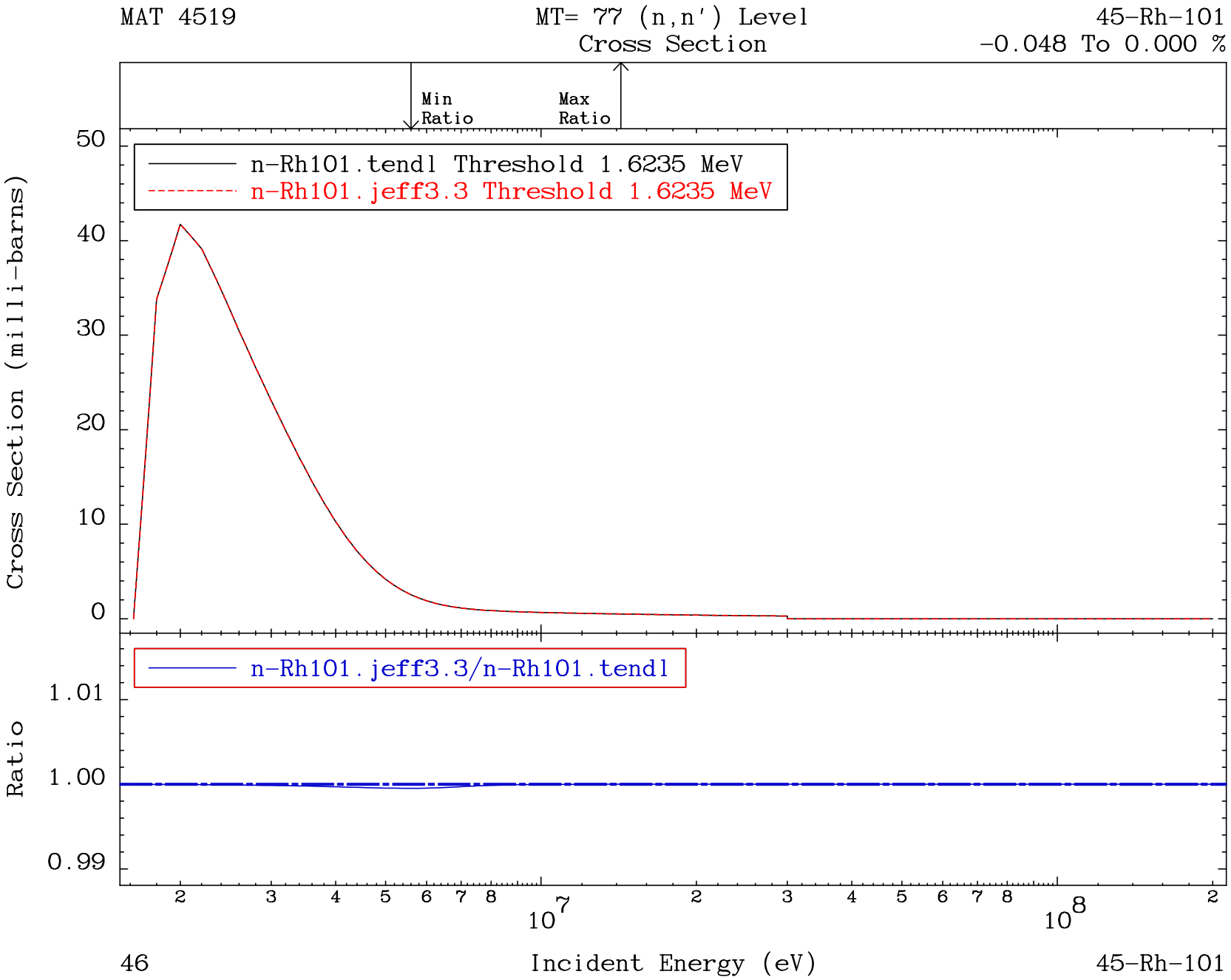

MAT 4519
MT= 72 (n,n') Level
Cross Section
45-Rh-101
-0.112 To 0.464 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 1.5463 MeV
n-Rh101.jeff3.3 Threshold 1.5463 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.010
1.000
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
41
Incident Energy (eV)
45-Rh-101

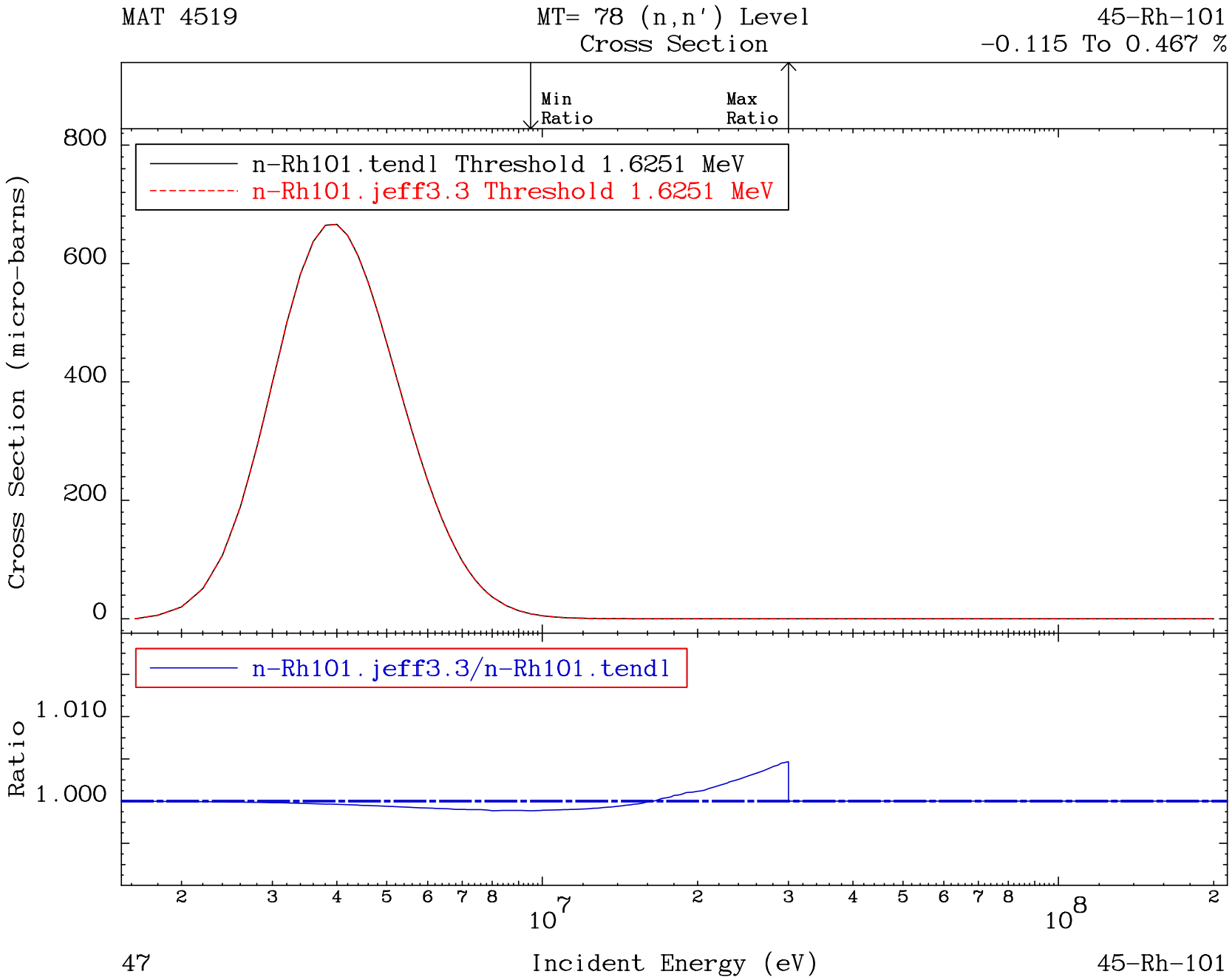

MAT 4519
MT= 73 (n,n') Level
Cross Section
45-Rh-101
-0.050 To 0.000 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 1.5564 MeV
n-Rh101.jeff3.3 Threshold 1.5564 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
42
Incident Energy (eV)
45-Rh-101

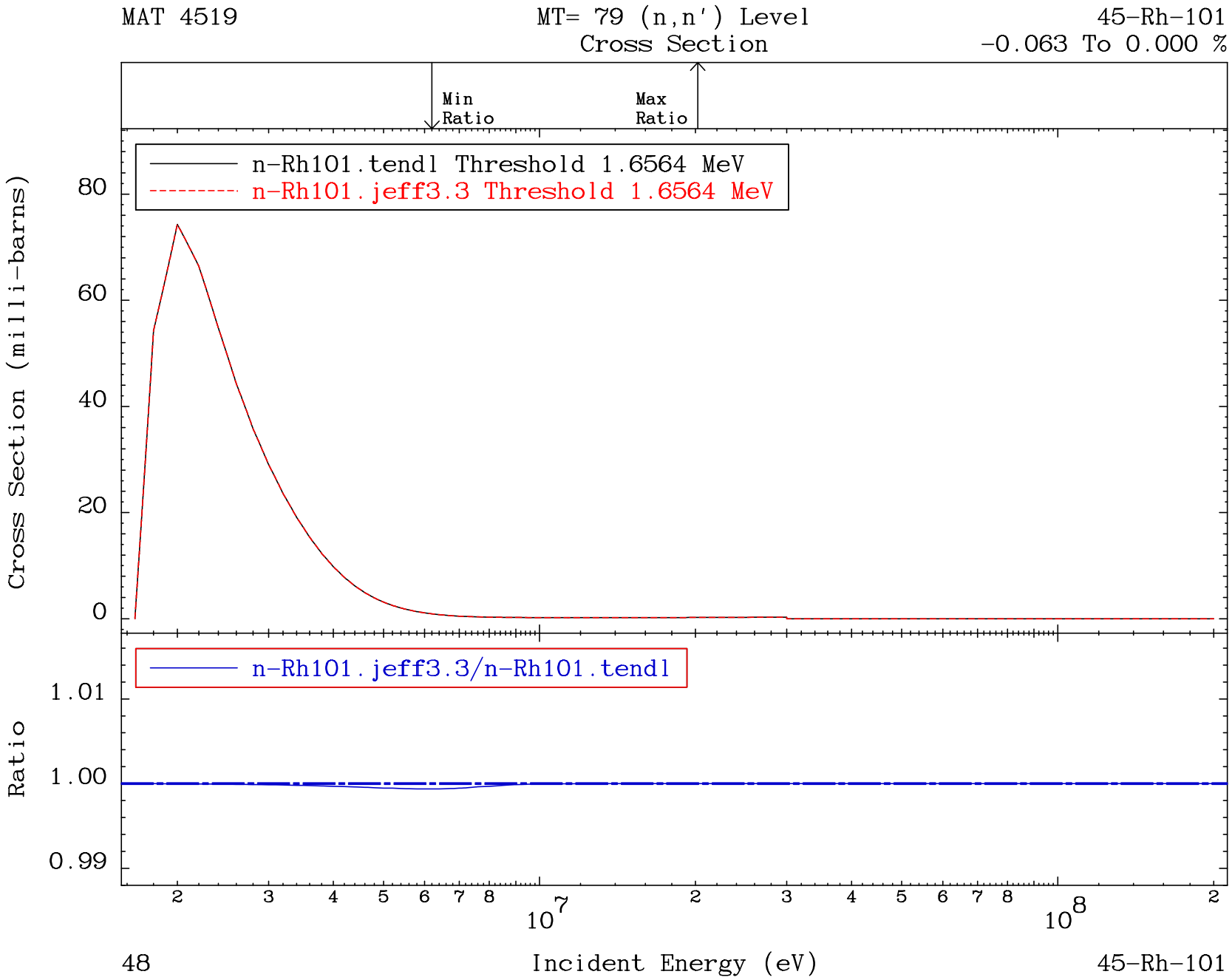

MAT 4519
MT= 74 (n,n') Level
Cross Section
45-Rh-101
-0.064 To 0.000 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 1.5927 MeV
n-Rh101.jeff3.3 Threshold 1.5927 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
0.99
1.00
1.01
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
43
Incident Energy (eV)
45-Rh-101

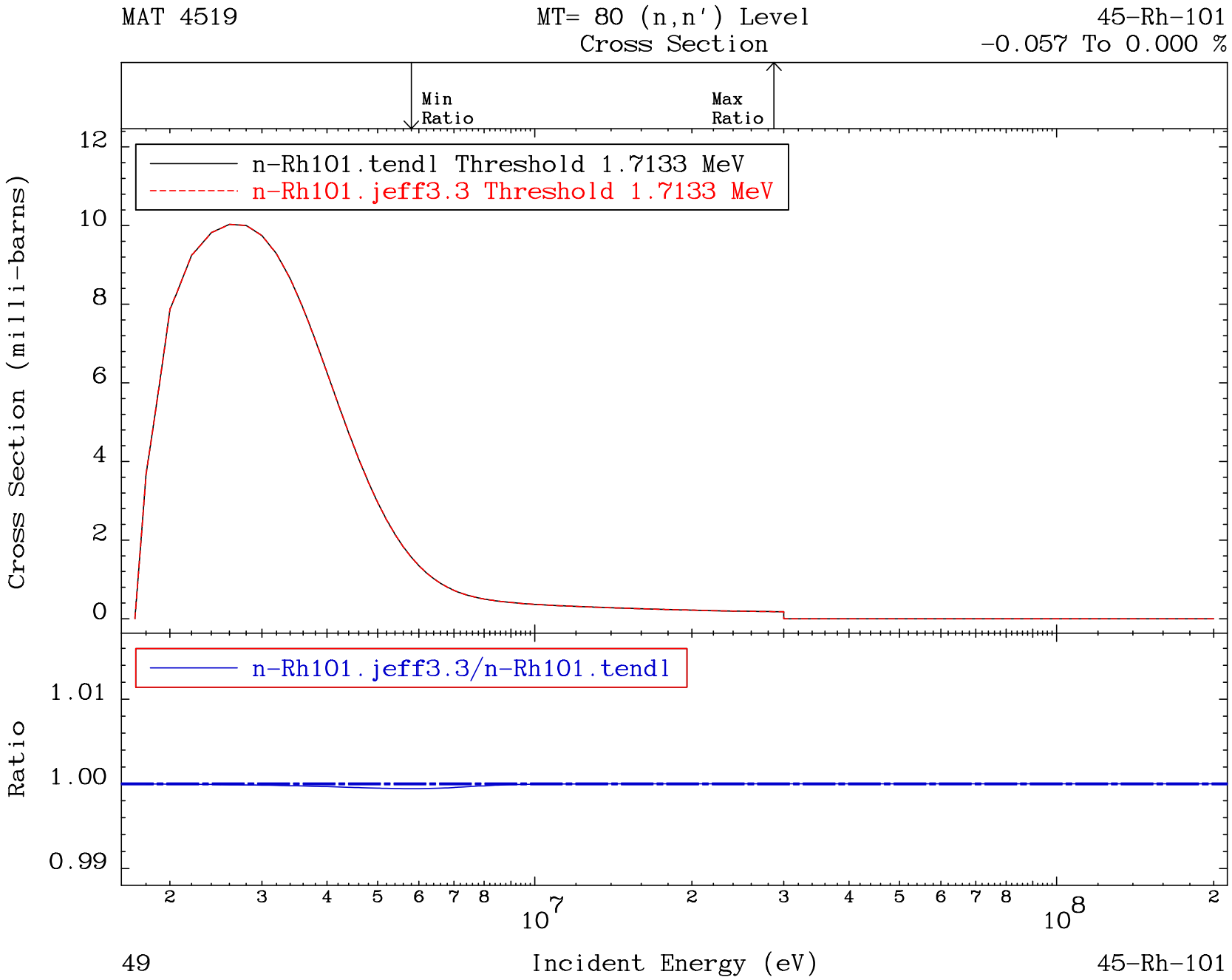

MAT 4519
MT= 75 (n,n') Level
Cross Section
45-Rh-101
-0.064 To 0.000 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 1.6200 MeV
n-Rh101.jeff3.3 Threshold 1.6200 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
44
Incident Energy (eV)
45-Rh-101

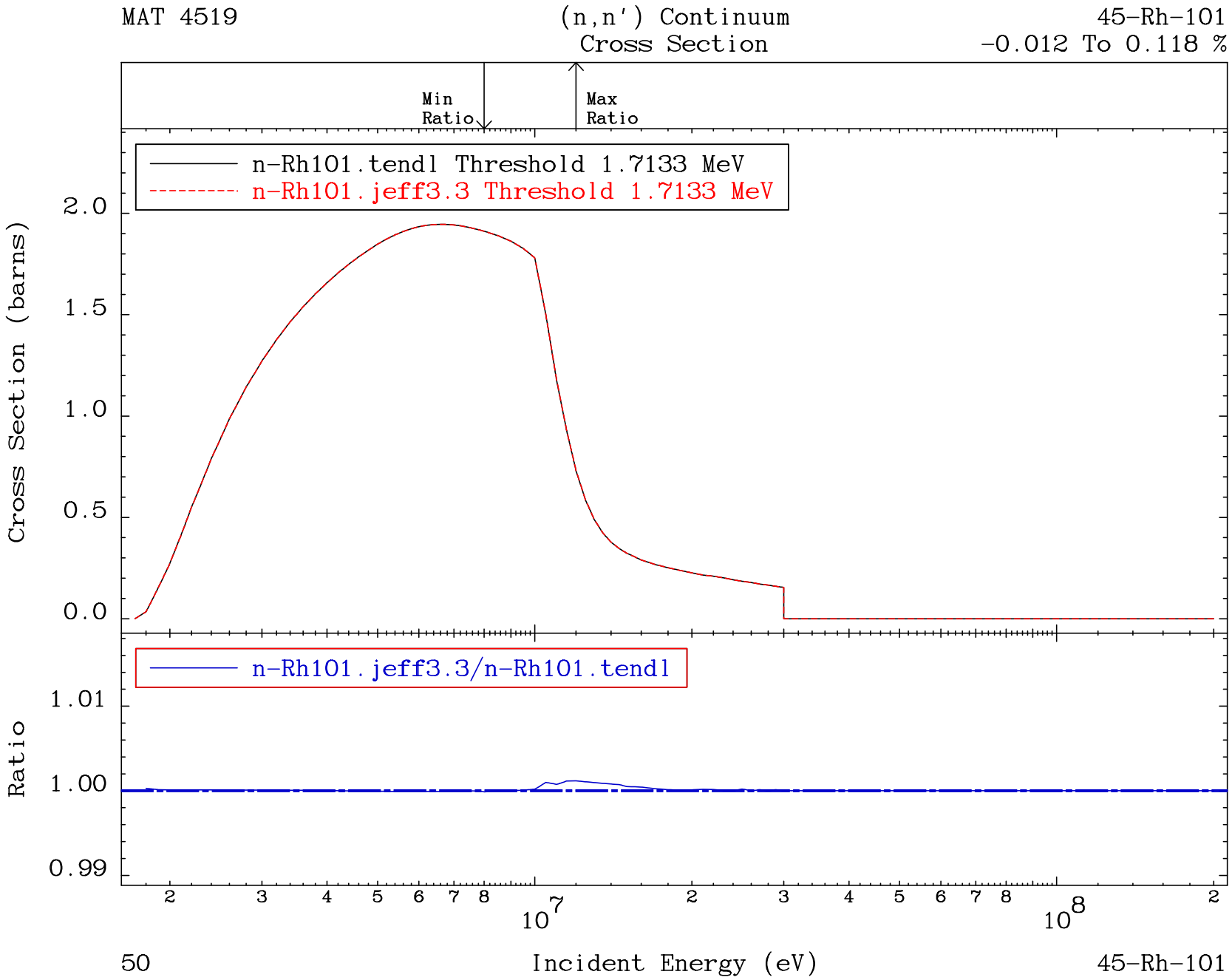

MAT 4519
MT= 76 (n,n') Level
Cross Section
45-Rh-101
-0.114 To 0.467 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 1.6220 MeV
n-Rh101.jeff3.3 Threshold 1.6220 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.010
1.000
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
45
Incident Energy (eV)
45-Rh-101

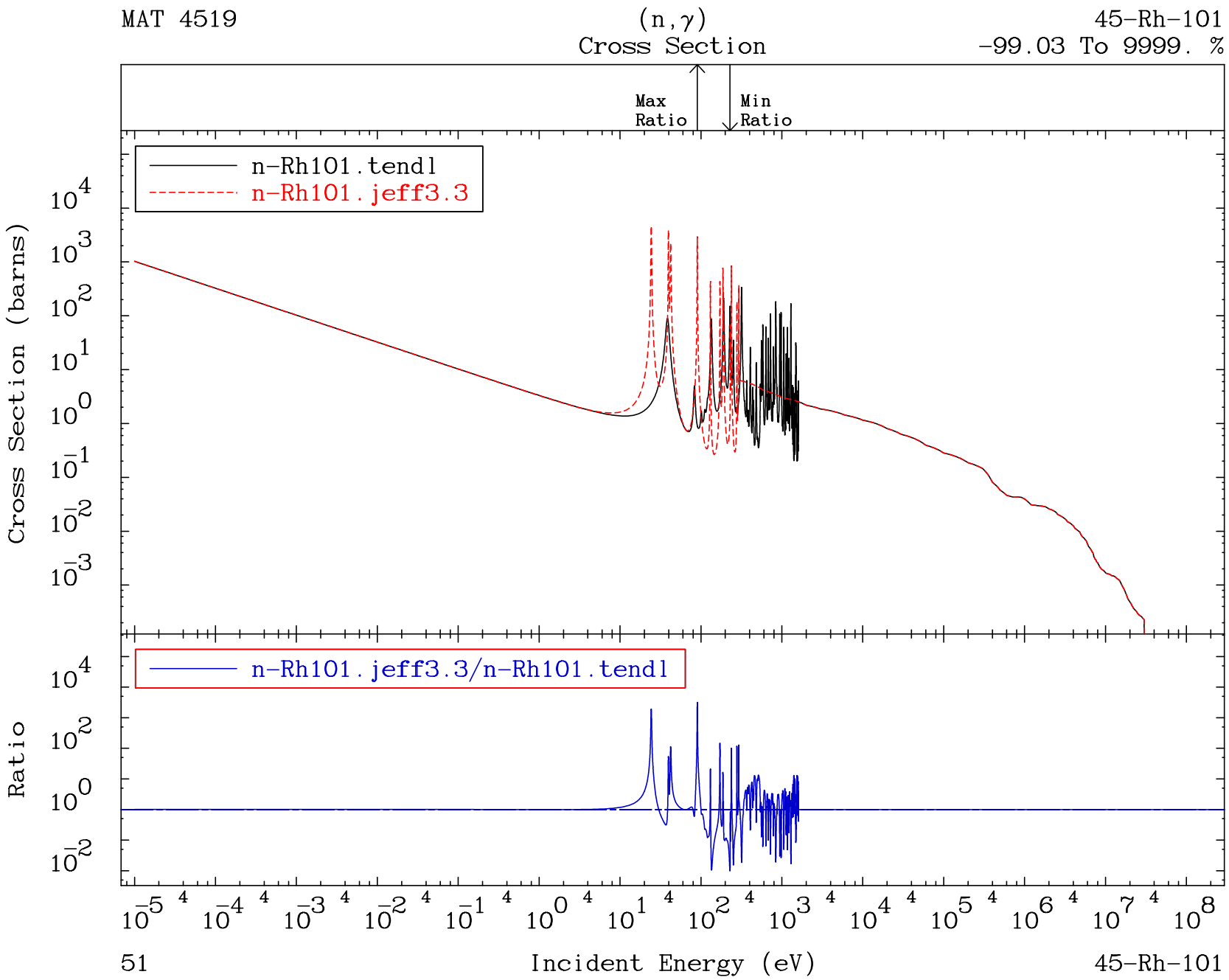

MAT 4519
MT= 77 (n,n') Level
Cross Section
45-Rh-101
-0.048 To 0.000 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 1.6235 MeV
n-Rh101.jeff3.3 Threshold 1.6235 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
46
Incident Energy (eV)
45-Rh-101

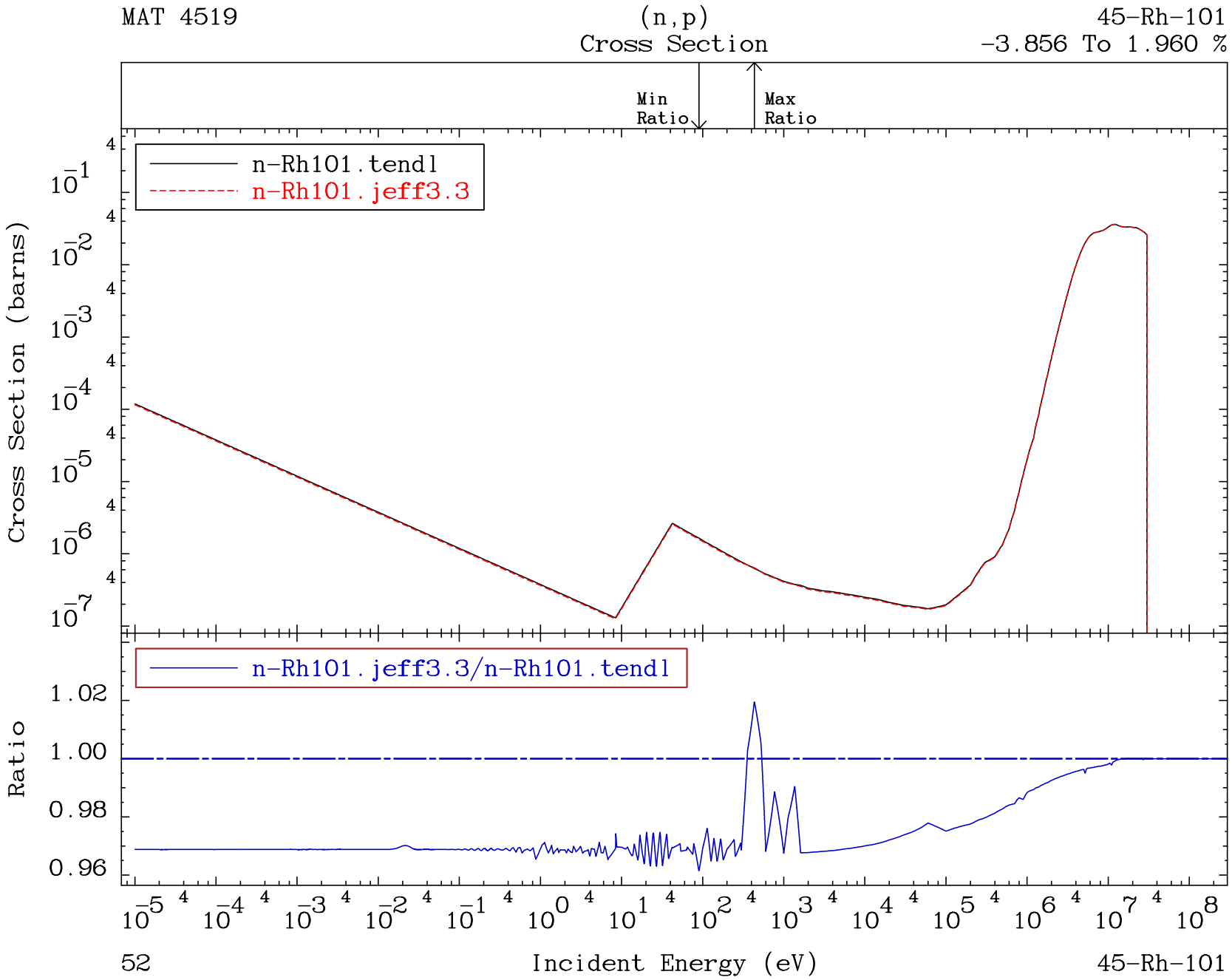

MAT 4519
MT= 78 (n,n') Level
Cross Section
45-Rh-101
-0.115 To 0.467 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 1.6251 MeV
n-Rh101.jeff3.3 Threshold 1.6251 MeV
Cross Section (micro-barns)
800
600
400
200
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.010
1.000
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
47
Incident Energy (eV)
45-Rh-101

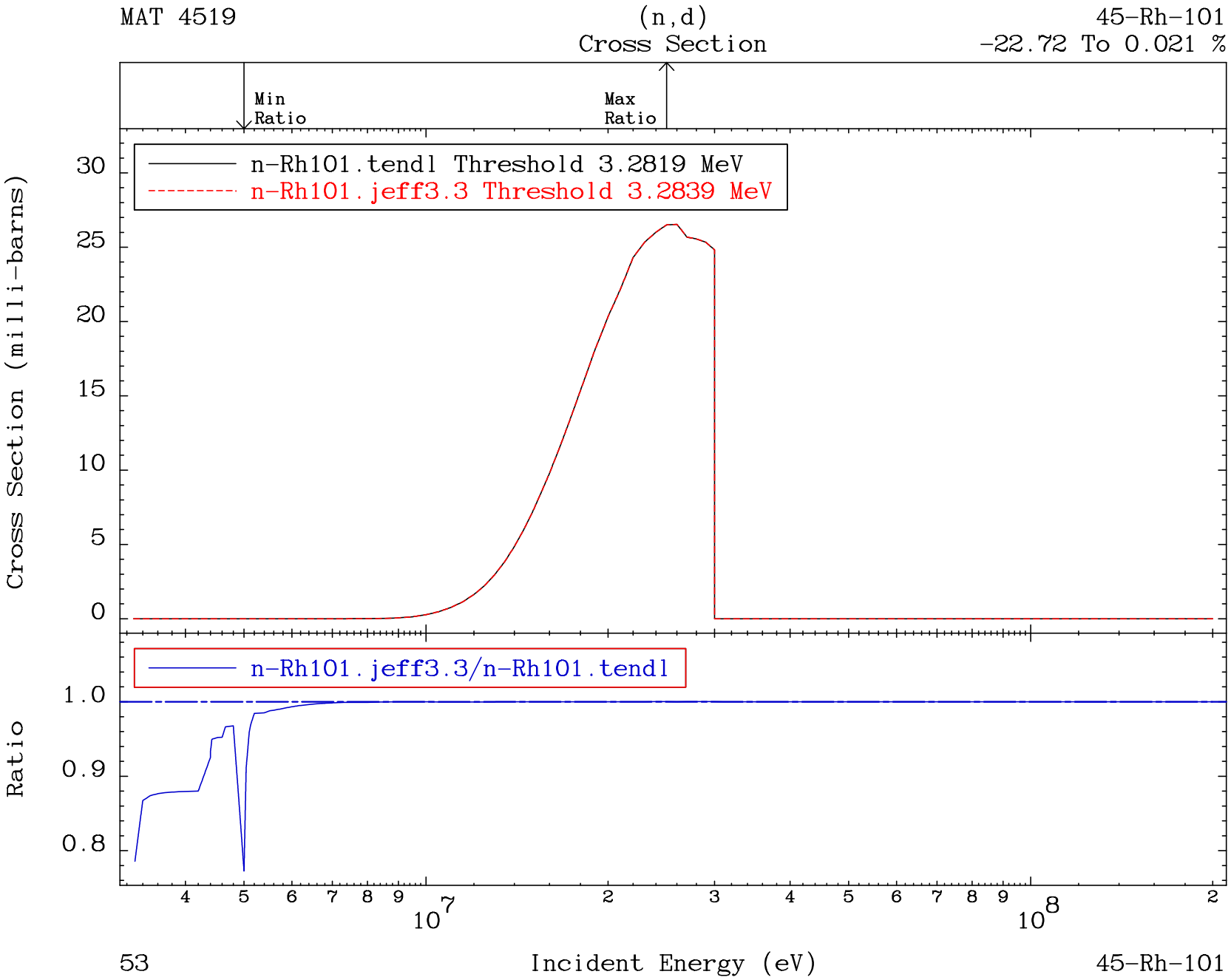

MAT 4519
MT= 79 (n,n') Level
Cross Section
45-Rh-101
-0.063 To 0.000 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 1.6564 MeV
n-Rh101.jeff3.3 Threshold 1.6564 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
48
Incident Energy (eV)
45-Rh-101

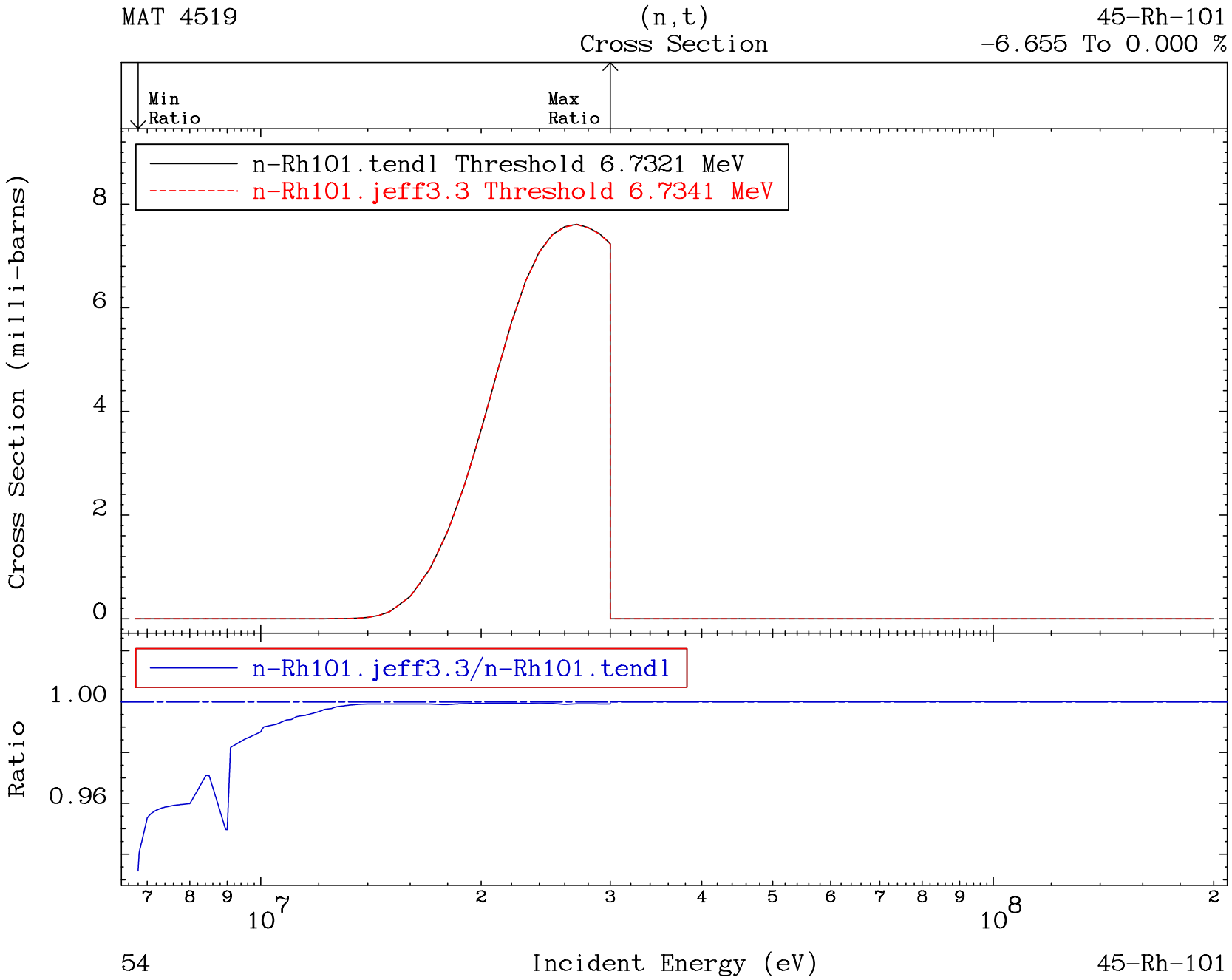

MAT 4519
MT= 80 (n,n') Level
Cross Section
45-Rh-101
-0.057 To 0.000 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 1.7133 MeV
n-Rh101.jeff3.3 Threshold 1.7133 MeV
Cross Section (milli-barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
Incident Energy (eV)
49
45-Rh-101

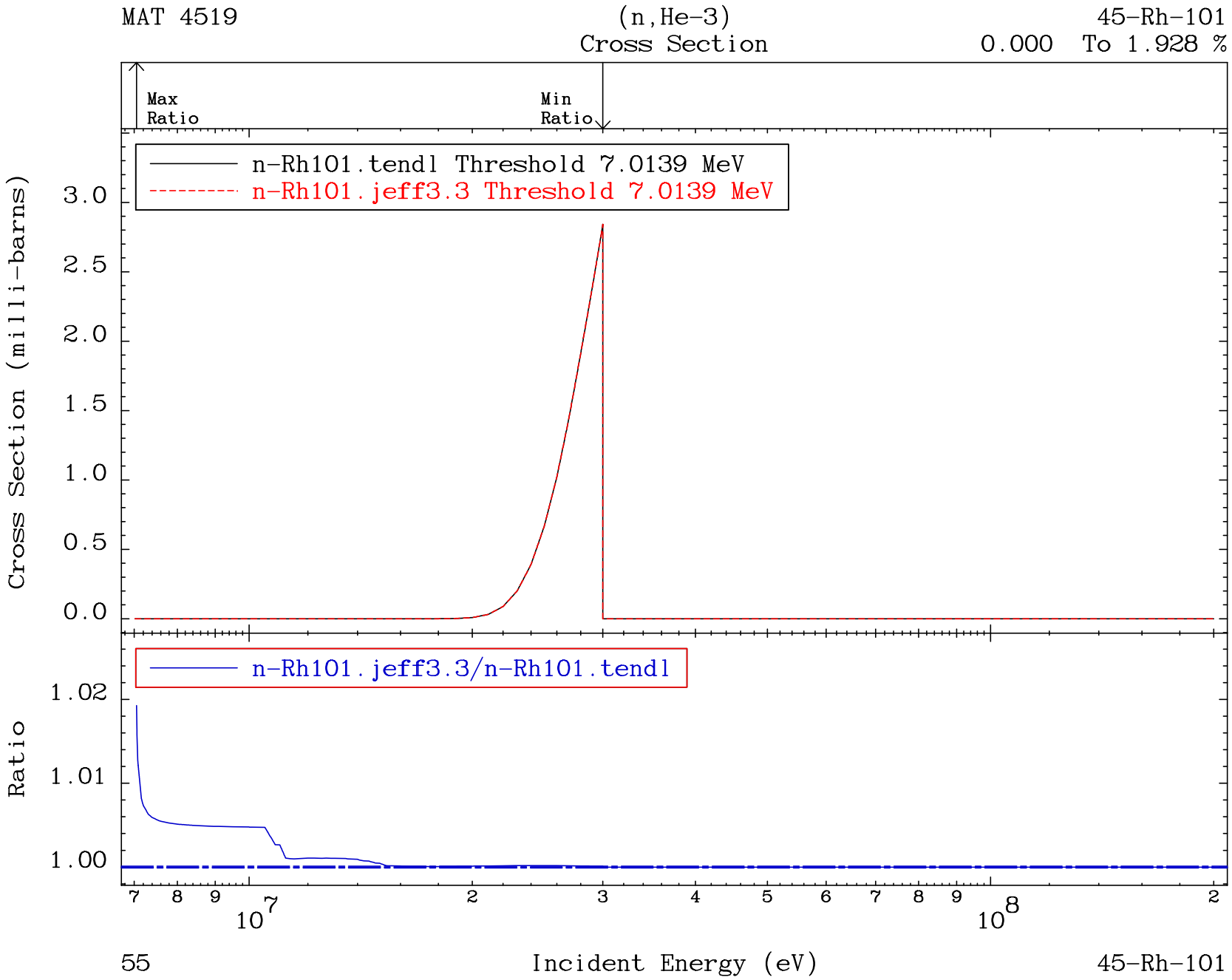

MAT 4519
(n,n') Continuum
Cross Section
45-Rh-101
-0.012 To 0.118 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 1.7133 MeV
n-Rh101.jeff3.3 Threshold 1.7133 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
50
Incident Energy (eV)
45-Rh-101

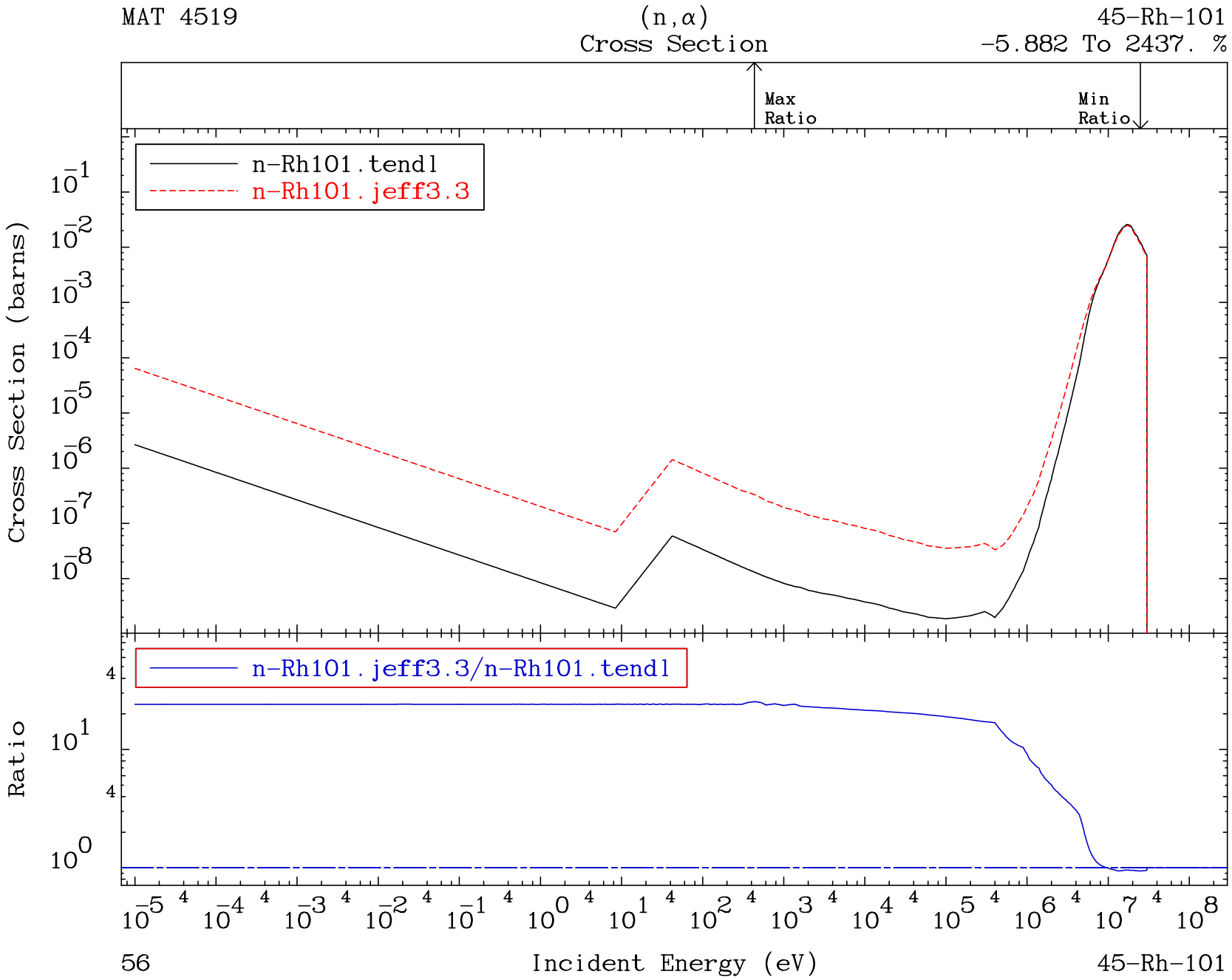

MAT 4519
(n,γ)
Cross Section
45-Rh-101
-99.03 To 9999. %
Max Ratio
Min Ratio
n-Rh101.tendl
n-Rh101.jeff3.3
Cross Section (barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
Incident Energy (eV)
51
45-Rh-101

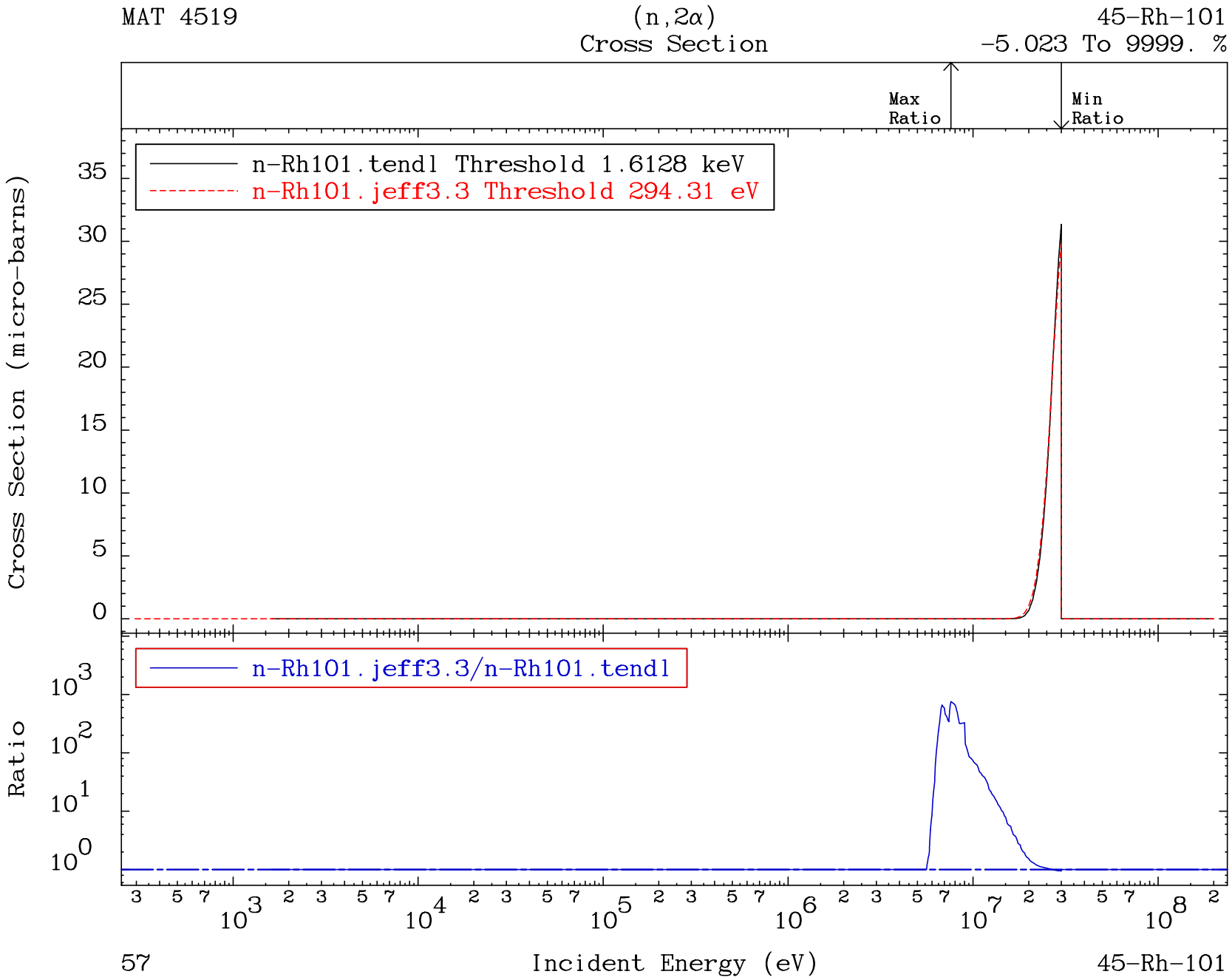

MAT 4519
(n,p)
Cross Section
45-Rh-101
-3.856 To 1.960 %
Min Ratio
Max Ratio
n-Rh101.tendl
n-Rh101.jeff3.3
Cross Section (barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.02
1.00
0.98
0.96
Incident Energy (eV)
52
45-Rh-101

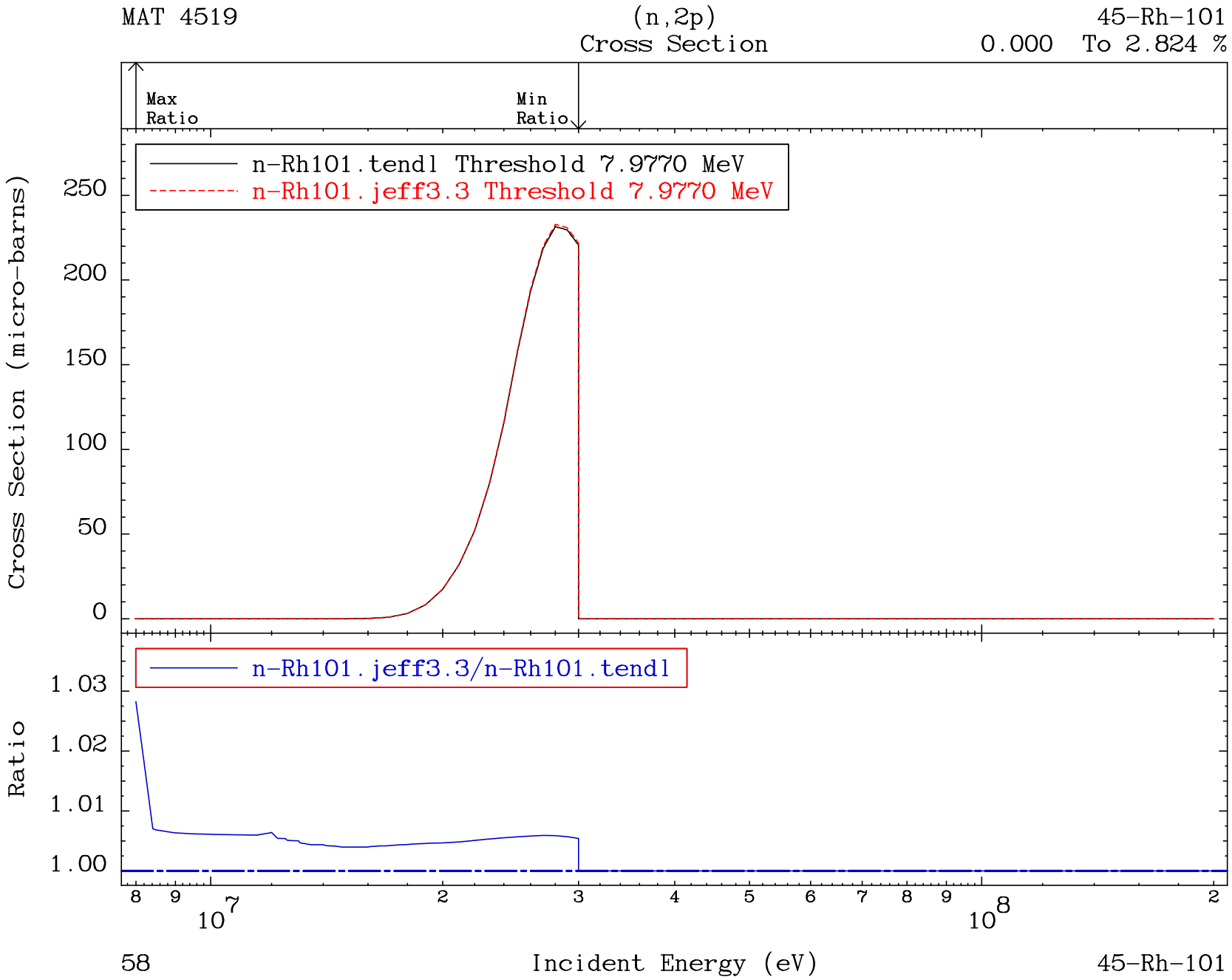

MAT 4519
(n,d)
Cross Section
45-Rh-101
-22.72 To 0.021 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 3.2819 MeV
n-Rh101.jeff3.3 Threshold 3.2839 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.0
0.9
0.8
4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
53
Incident Energy (eV)
45-Rh-101

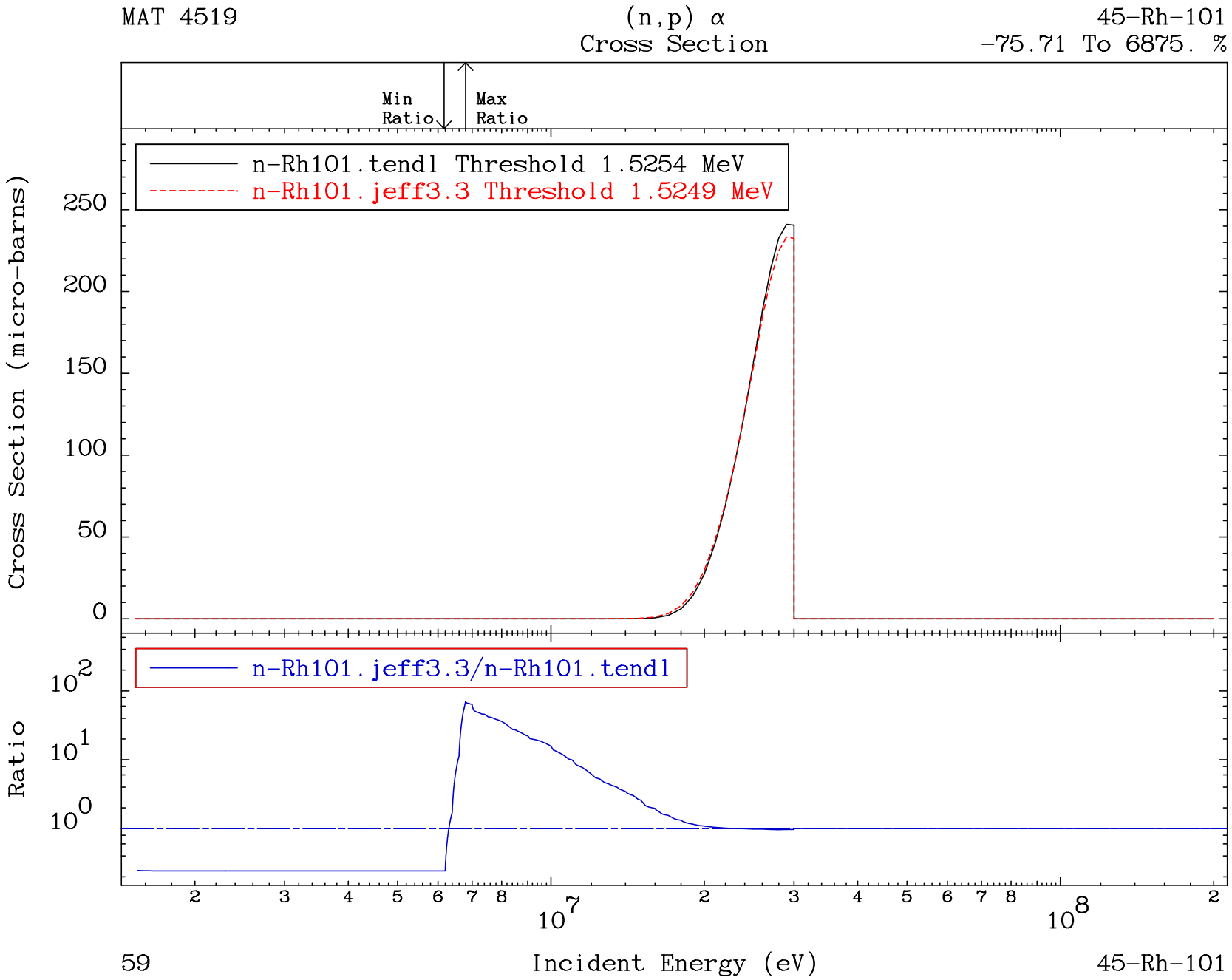

MAT 4519
(n,t)
Cross Section
45-Rh-101
-6.655 To 0.000 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 6.7321 MeV
n-Rh101.jeff3.3 Threshold 6.7341 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
0.96
1.00
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
54
Incident Energy (eV)
45-Rh-101

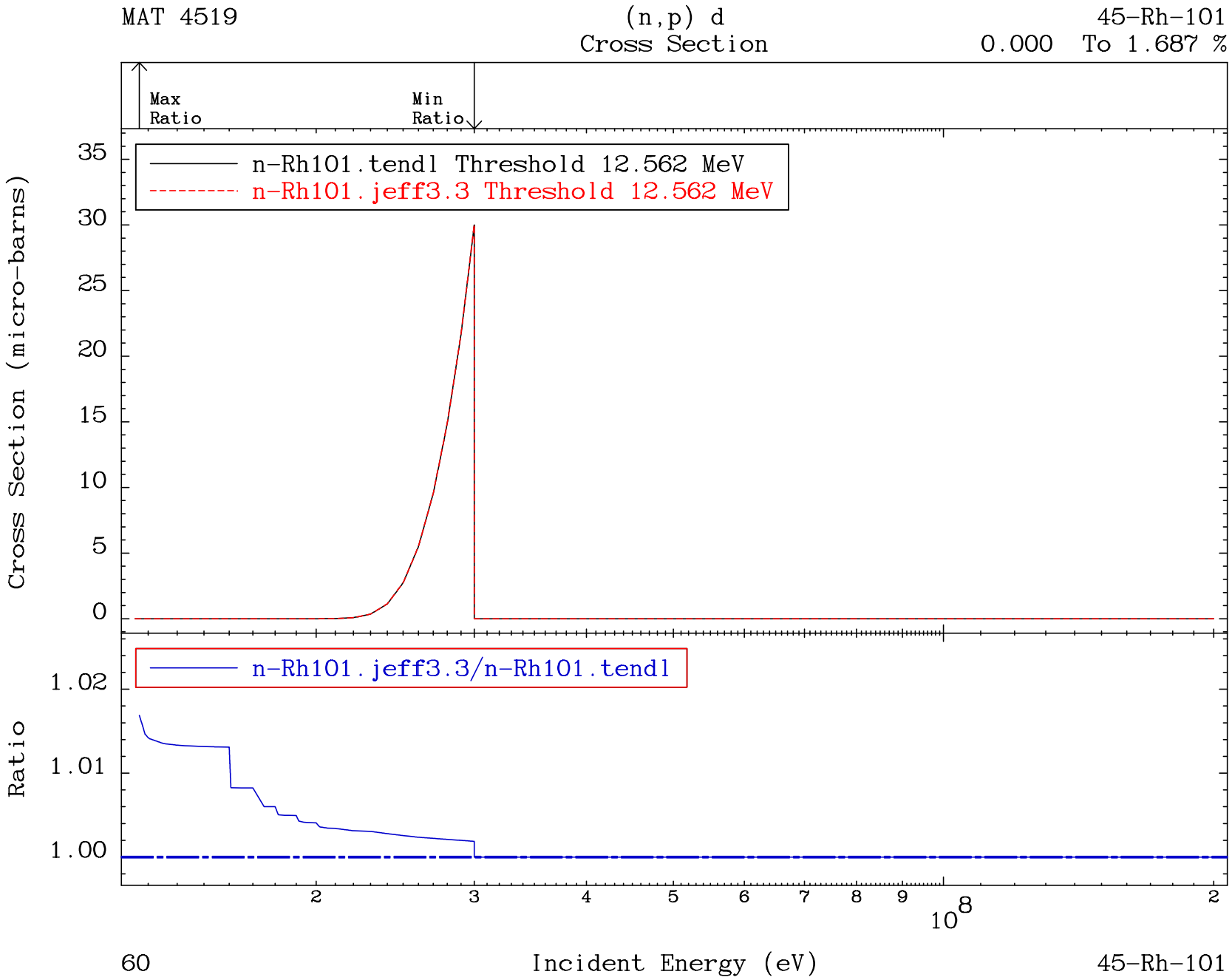

MAT 4519
(n,He-3)
Cross Section
45-Rh-101
0.000 To 1.928 %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 7.0139 MeV
n-Rh101.jeff3.3 Threshold 7.0139 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.02
1.01
1.00
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
55
Incident Energy (eV)
45-Rh-101

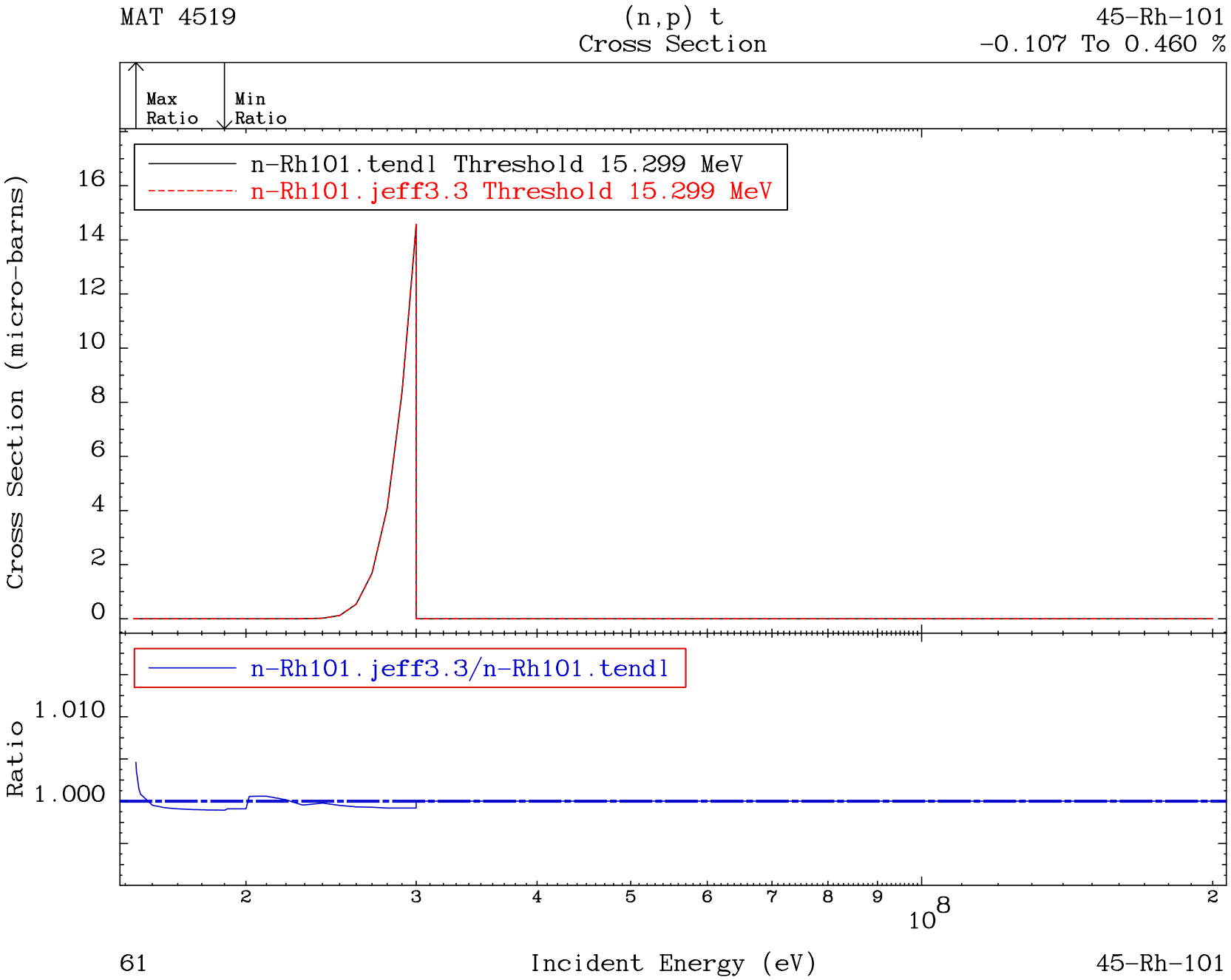

MAT 4519
(n,α)
Cross Section
45-Rh-101
-5.882 To 2437. %
Max Ratio
Min Ratio
n-Rh101.tendl
n-Rh101.jeff3.3
Cross Section (barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
56
Incident Energy (eV)
45-Rh-101

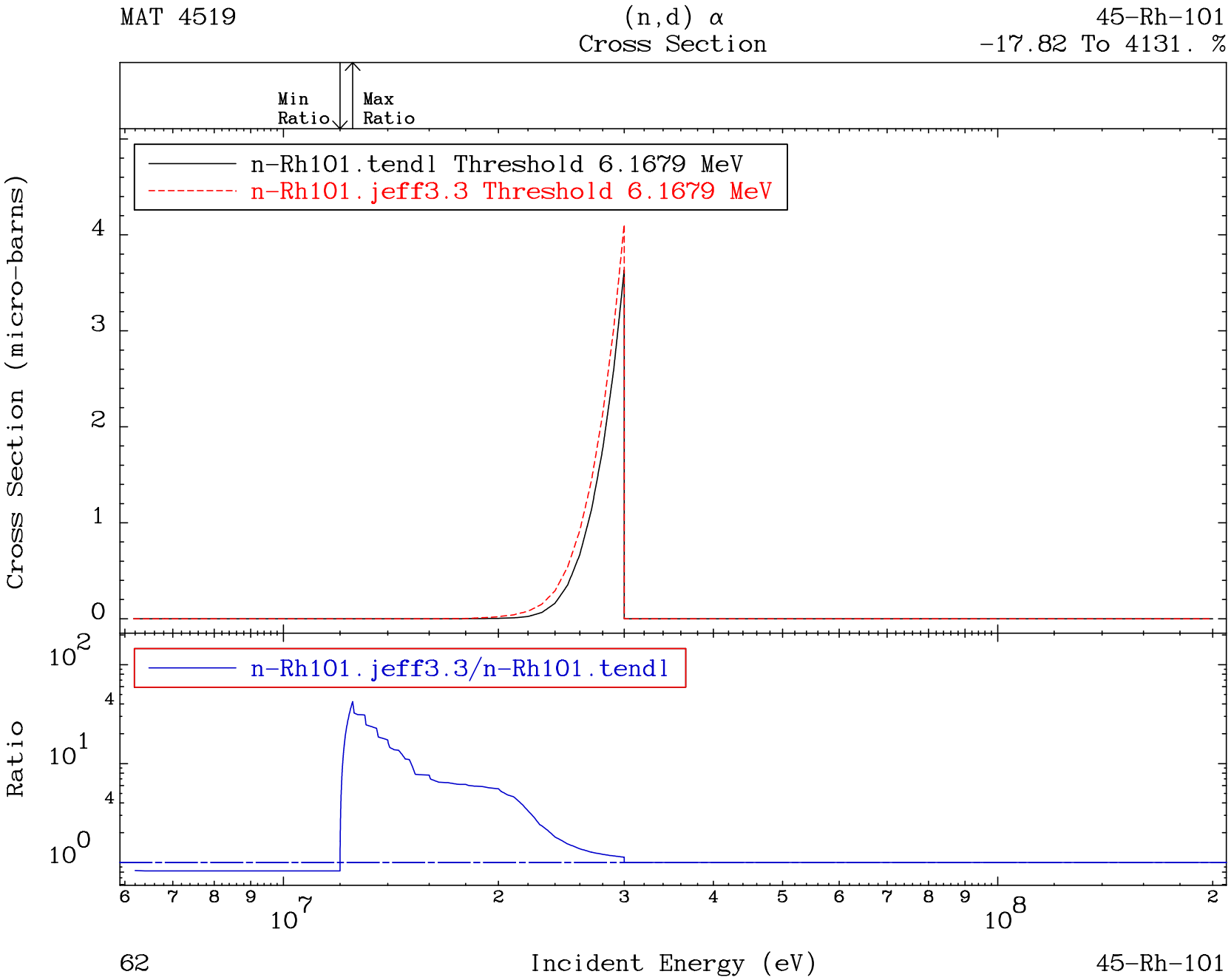

MAT 4519
(n,2α)
Cross Section
45-Rh-101
-5.023 To 9999. %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 1.6128 keV
n-Rh101.jeff3.3 Threshold 294.31 eV
Cross Section (micro-barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
Incident Energy (eV)
57
45-Rh-101

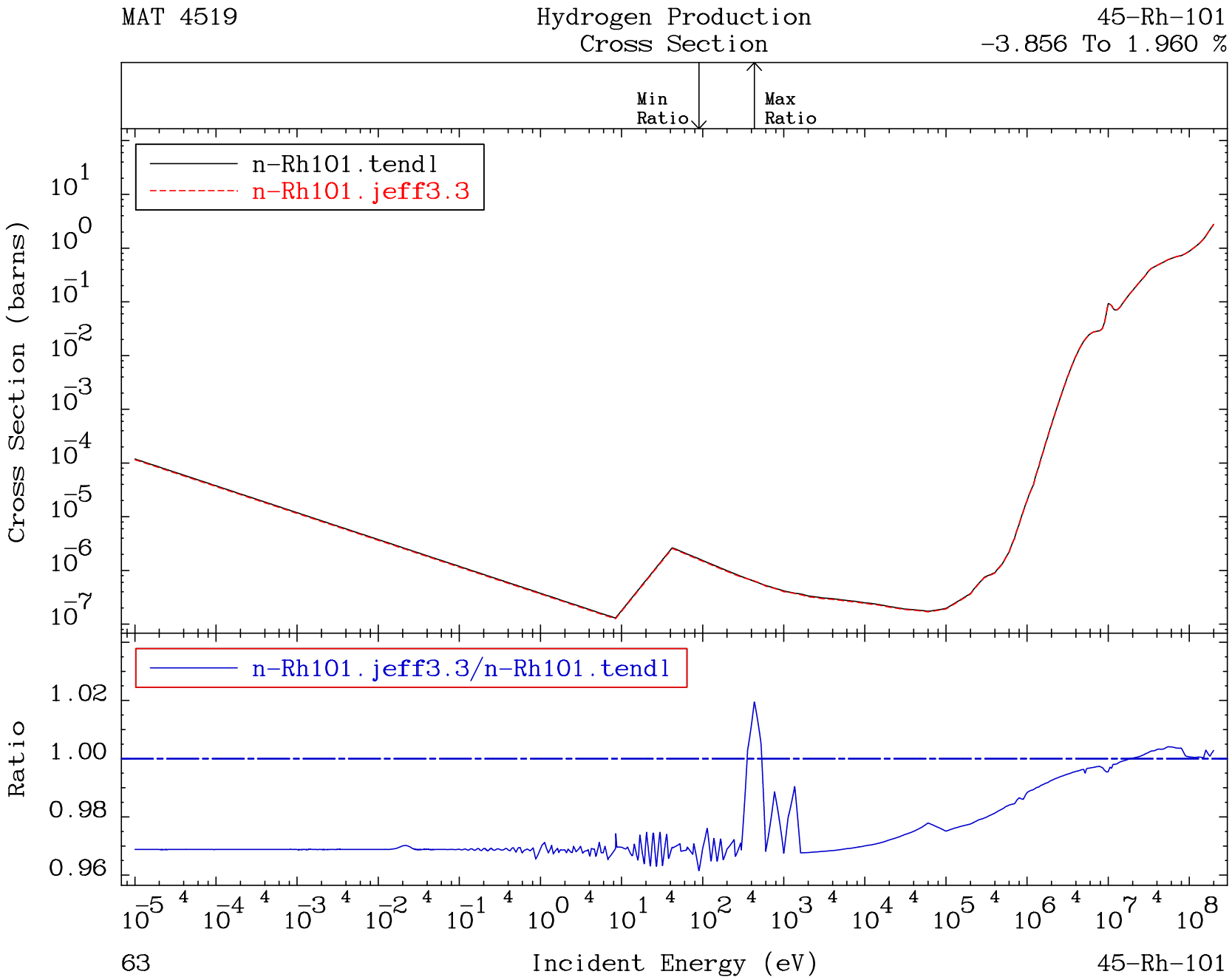

MAT 4519
(n,2p)
Cross Section
45-Rh-101
0.000 To 2.824 %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 7.9770 MeV
n-Rh101.jeff3.3 Threshold 7.9770 MeV
Cross Section (micro-barns)
250
200
150
100
50
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.03
1.02
1.01
1.00
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
58
Incident Energy (eV)
45-Rh-101

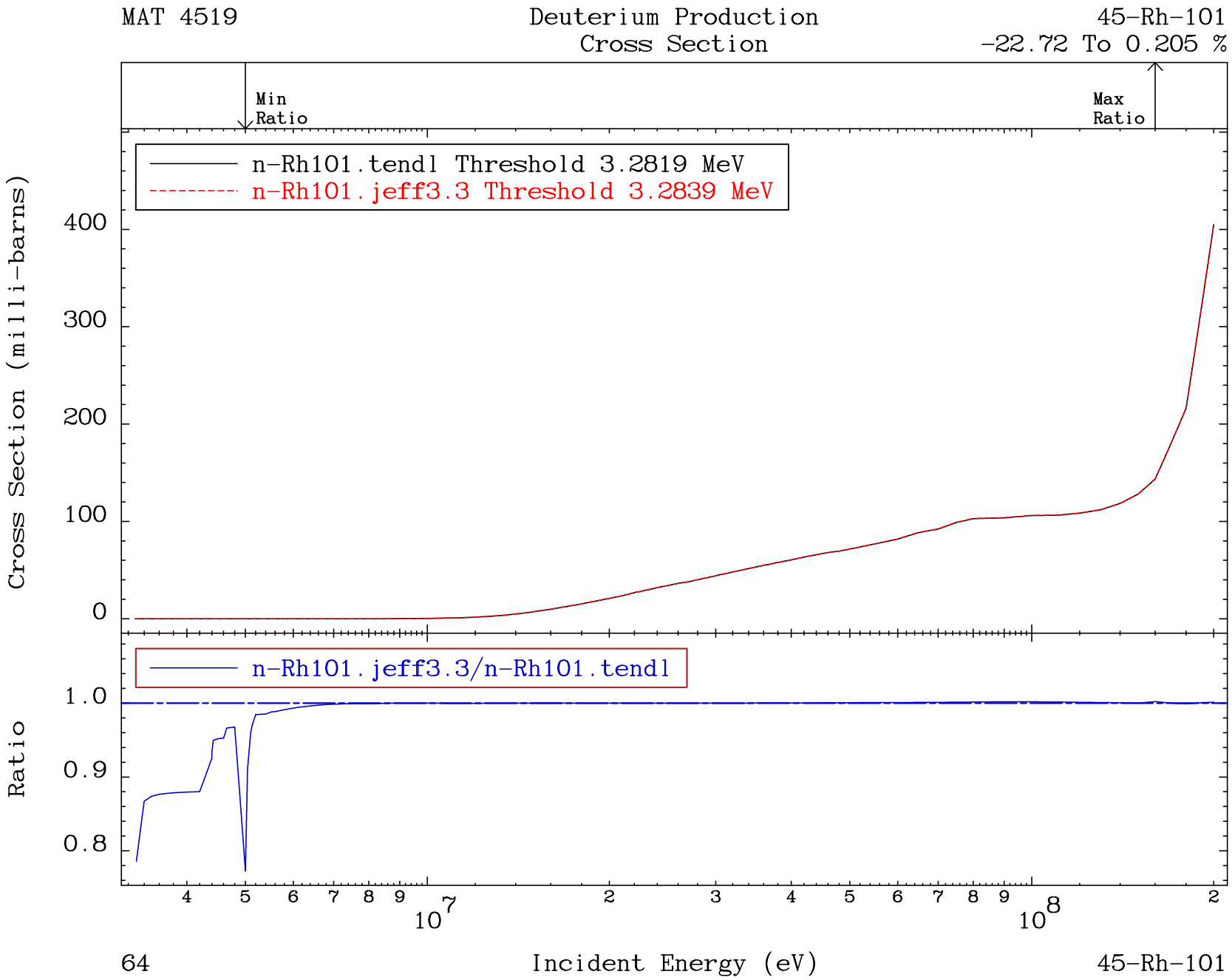

MAT 4519
(n,p) α
Cross Section
45-Rh-101
-75.71 To 6875. %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 1.5254 MeV
n-Rh101.jeff3.3 Threshold 1.5249 MeV
Cross Section (micro-barns)
250
200
150
100
50
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
10^2
10^1
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
59
Incident Energy (eV)
45-Rh-101

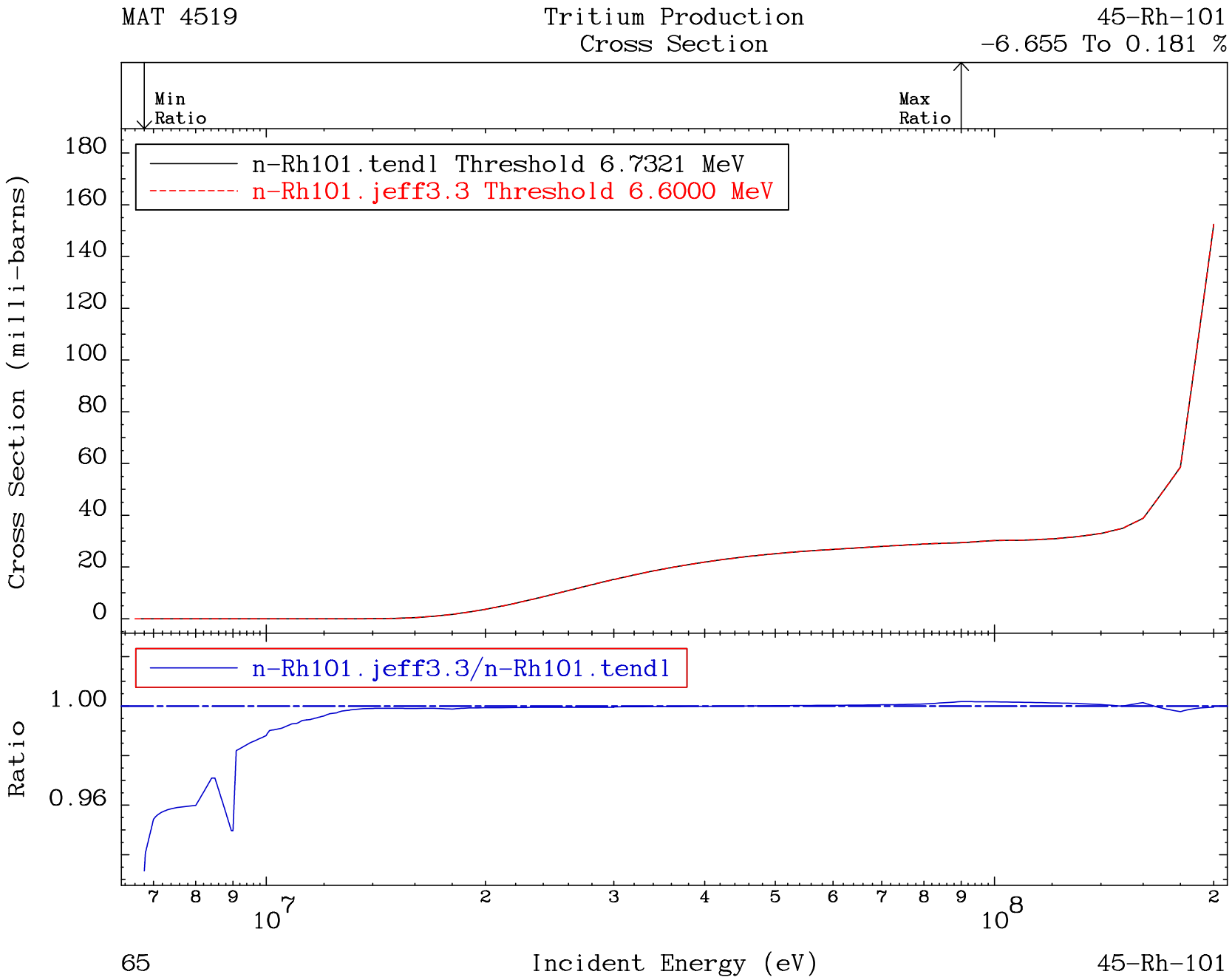

MAT 4519
(n,p) d
Cross Section
45-Rh-101
0.000 To 1.687 %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 12.562 MeV
n-Rh101.jeff3.3 Threshold 12.562 MeV
Cross Section (micro-barns)
35
30
25
20
15
10
5
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
60
Incident Energy (eV)
45-Rh-101

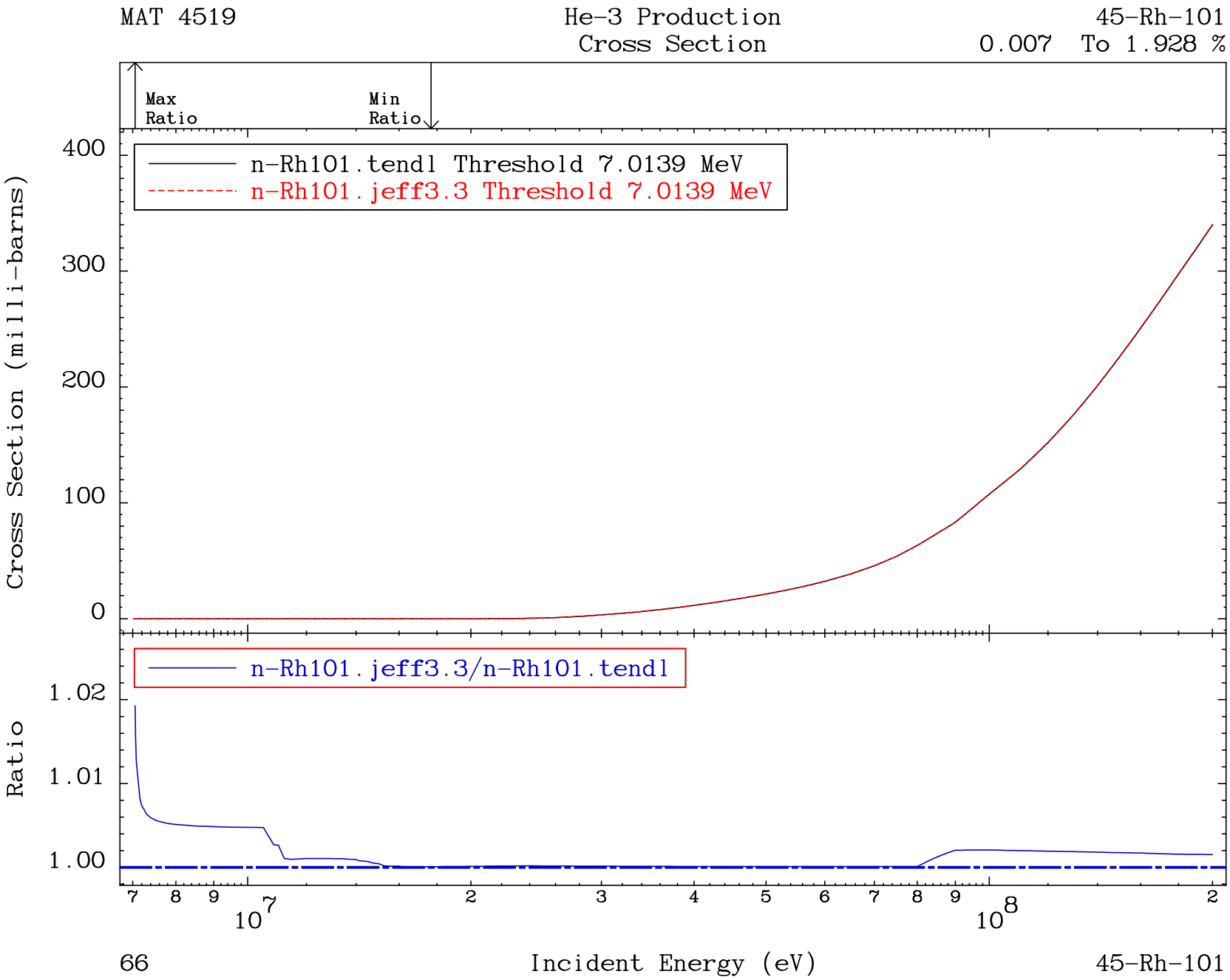

MAT 4519
(n,p) t
Cross Section
45-Rh-101
-0.107 To 0.460 %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 15.299 MeV
n-Rh101.jeff3.3 Threshold 15.299 MeV
Cross Section (micro-barns)
0
2
4
6
8
10
12
14
16
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.000
1.010
2
3
4
5
6
7
8
9
10^8
2
61
Incident Energy (eV)
45-Rh-101

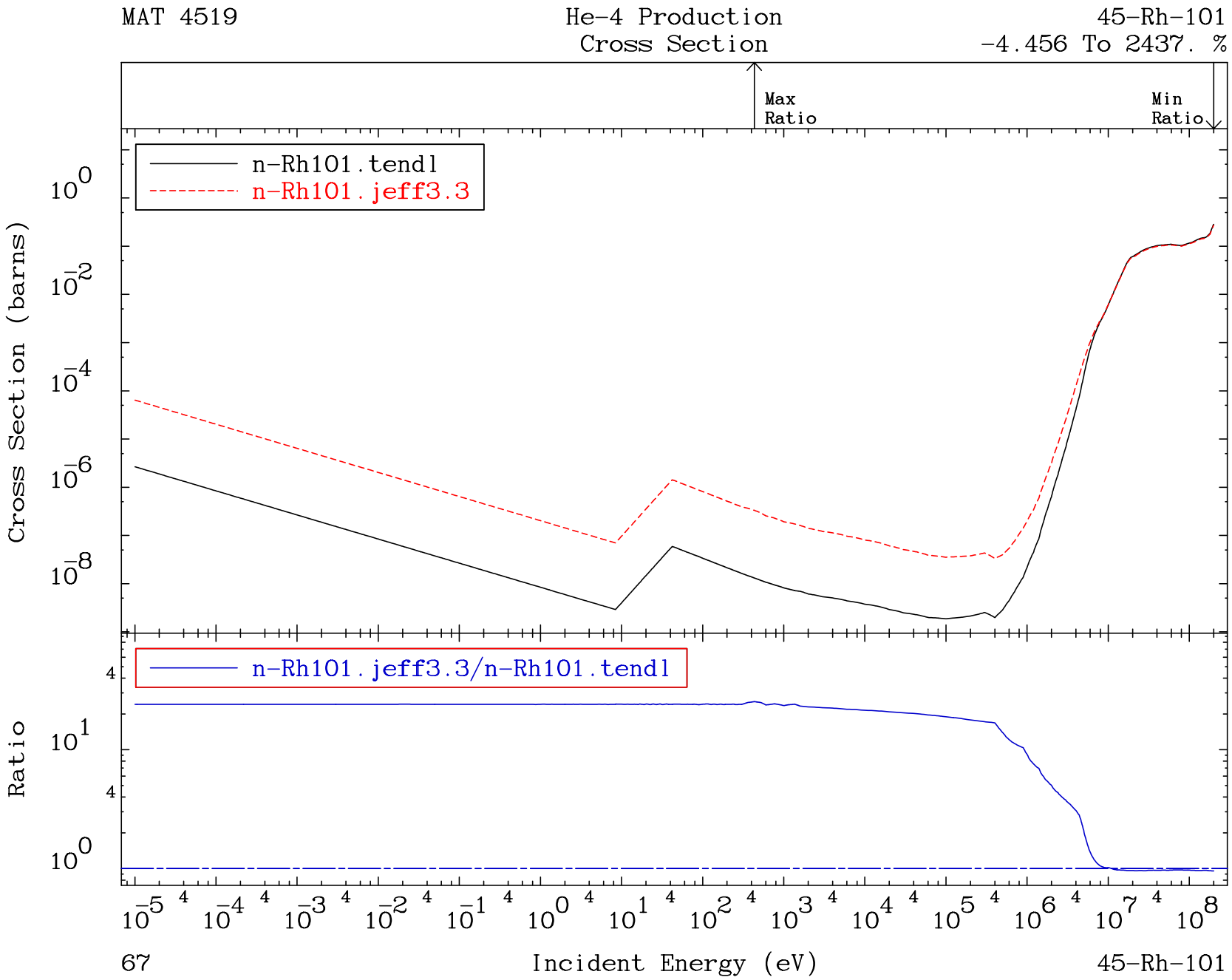

MAT 4519
(n,d) α
Cross Section
45-Rh-101
-17.82 To 4131. %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 6.1679 MeV
n-Rh101.jeff3.3 Threshold 6.1679 MeV
Cross Section (micro-barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
Incident Energy (eV)
62
45-Rh-101

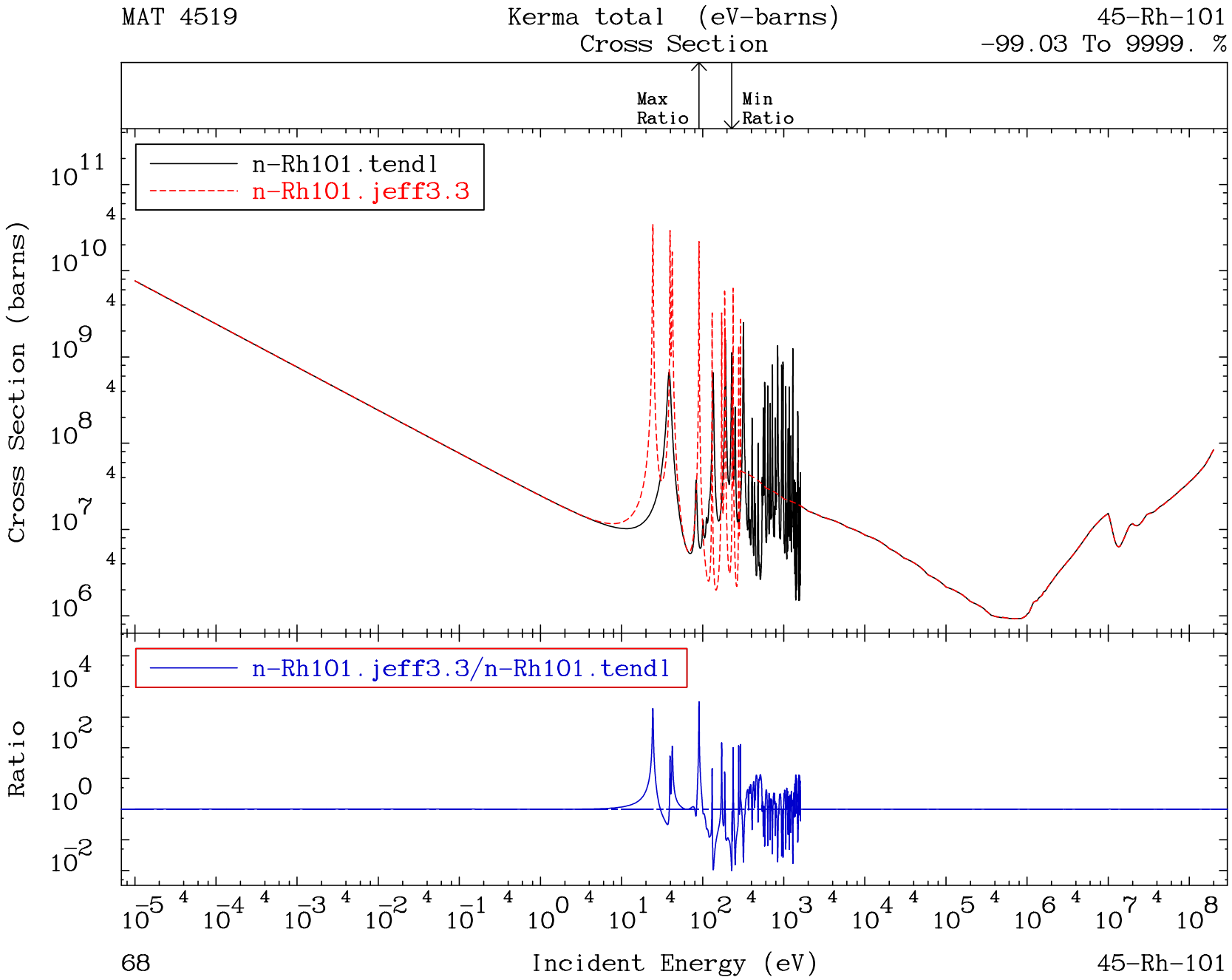

MAT 4519
Hydrogen Production
Cross Section
45-Rh-101
-3.856 To 1.960 %
Min Ratio
Max Ratio
n-Rh101.tendl
n-Rh101.jeff3.3
Cross Section (barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
Incident Energy (eV)
63
45-Rh-101

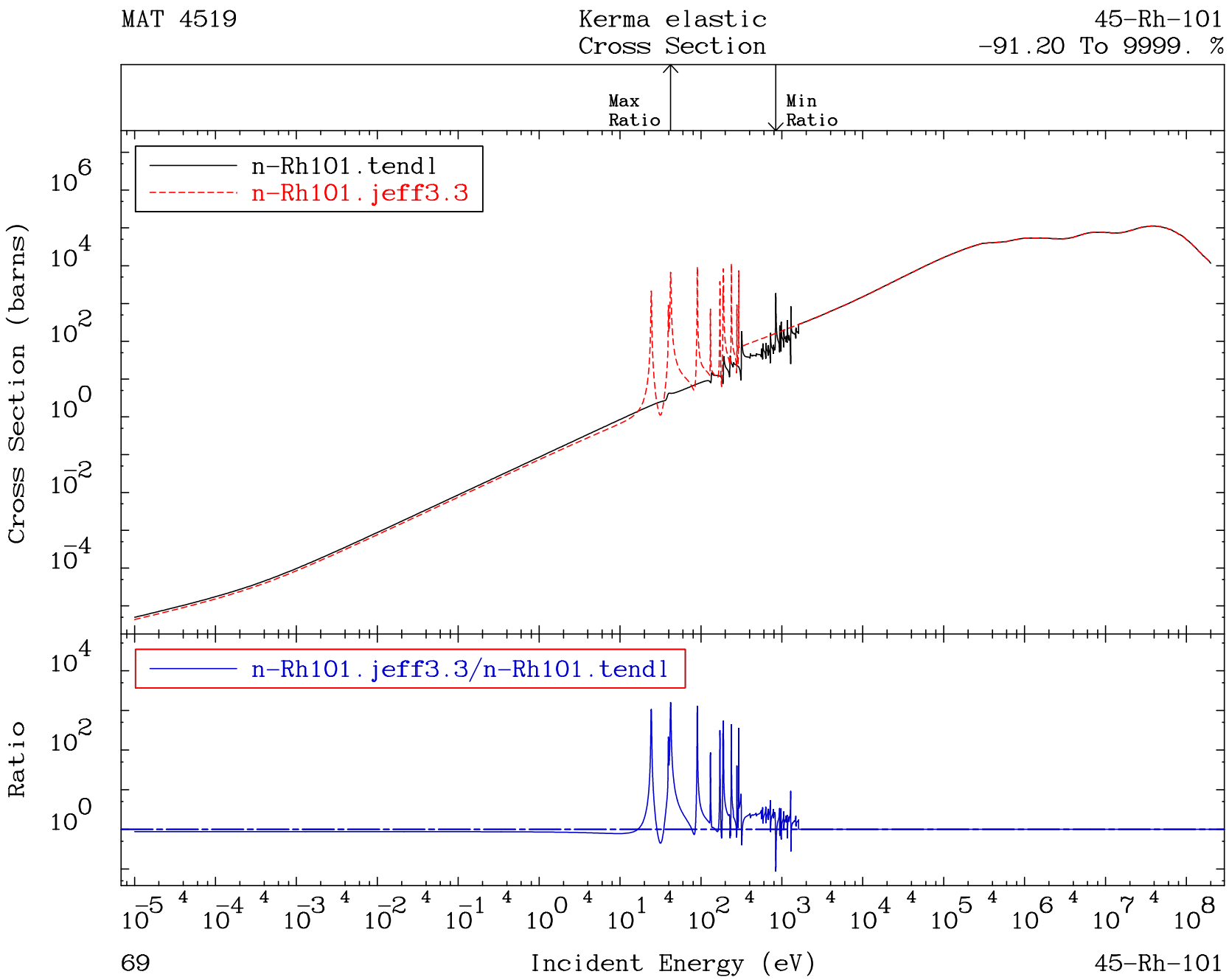

MAT 4519
Deuterium Production
Cross Section
45-Rh-101
-22.72 To 0.205 %
Min
Ratio
Max
Ratio
n-Rh101.tendl Threshold 3.2819 MeV
n-Rh101.jeff3.3 Threshold 3.2839 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.0
0.9
0.8
4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
64
Incident Energy (eV)
45-Rh-101

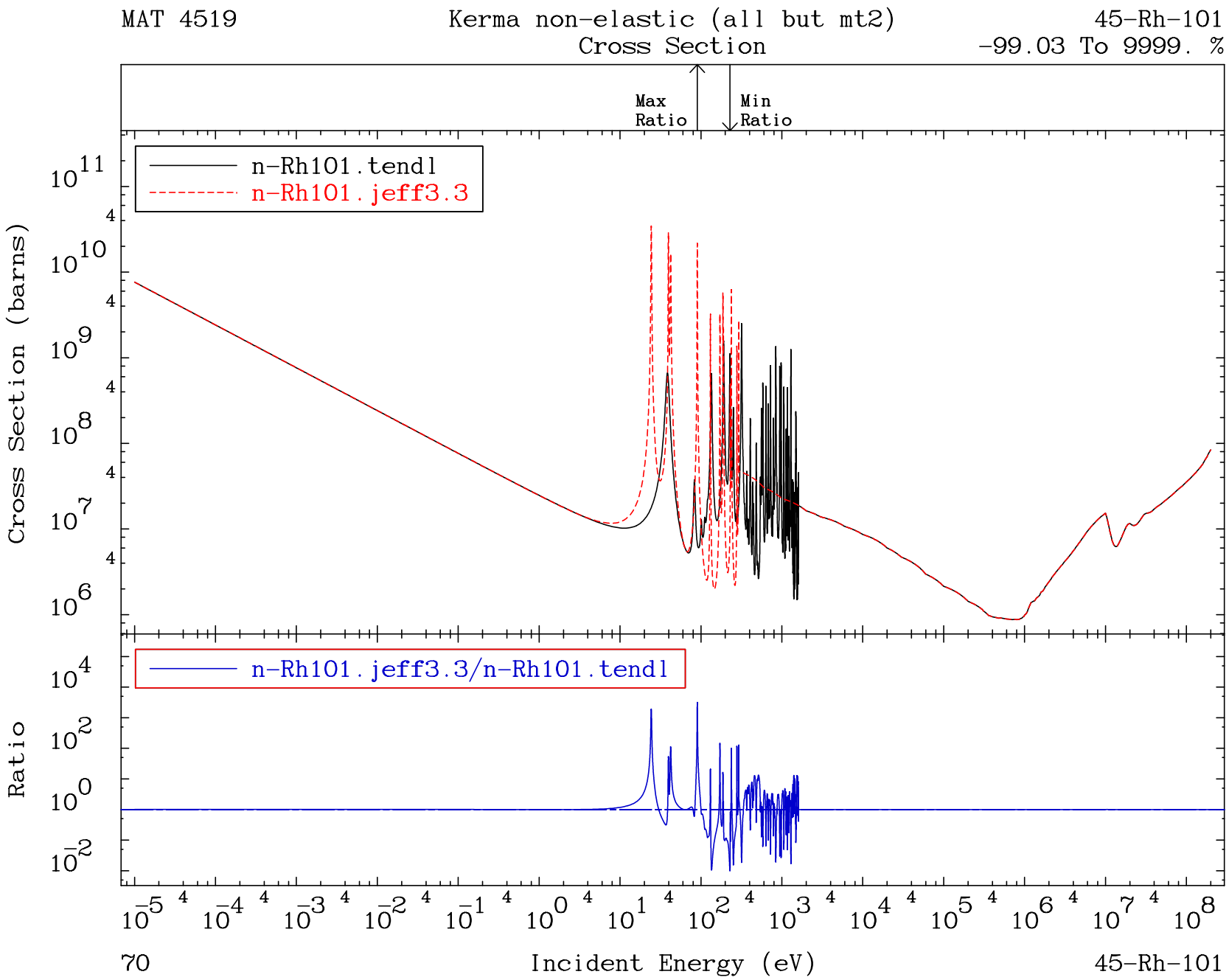

MAT 4519
Tritium Production
Cross Section
45-Rh-101
-6.655 To 0.181 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 6.7321 MeV
n-Rh101.jeff3.3 Threshold 6.6000 MeV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.00
0.96
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
65
Incident Energy (eV)
45-Rh-101

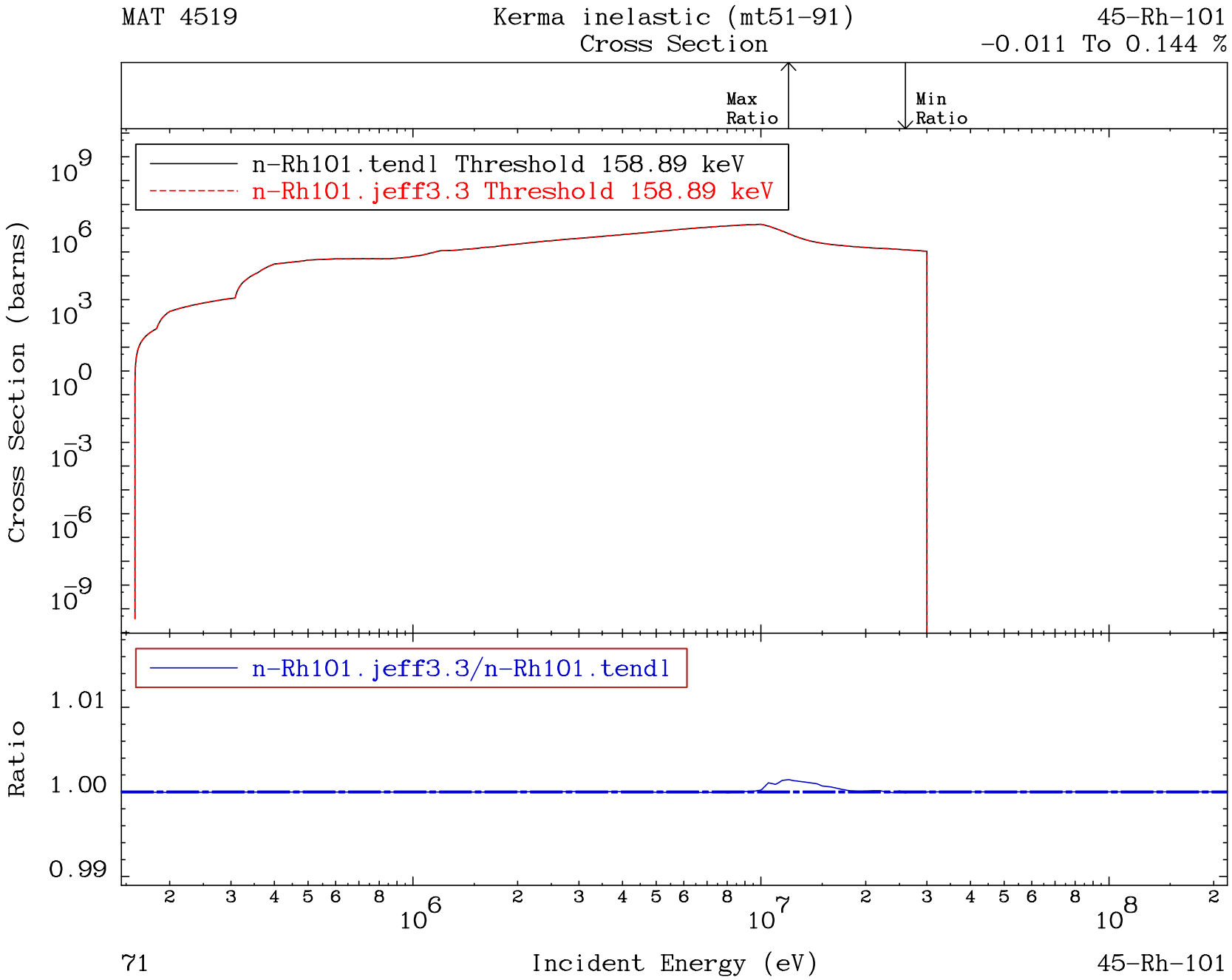

MAT 4519
He-3 Production
Cross Section
45-Rh-101
0.007 To 1.928 %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 7.0139 MeV
n-Rh101.jeff3.3 Threshold 7.0139 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.02
1.01
1.00
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
66
Incident Energy (eV)
45-Rh-101

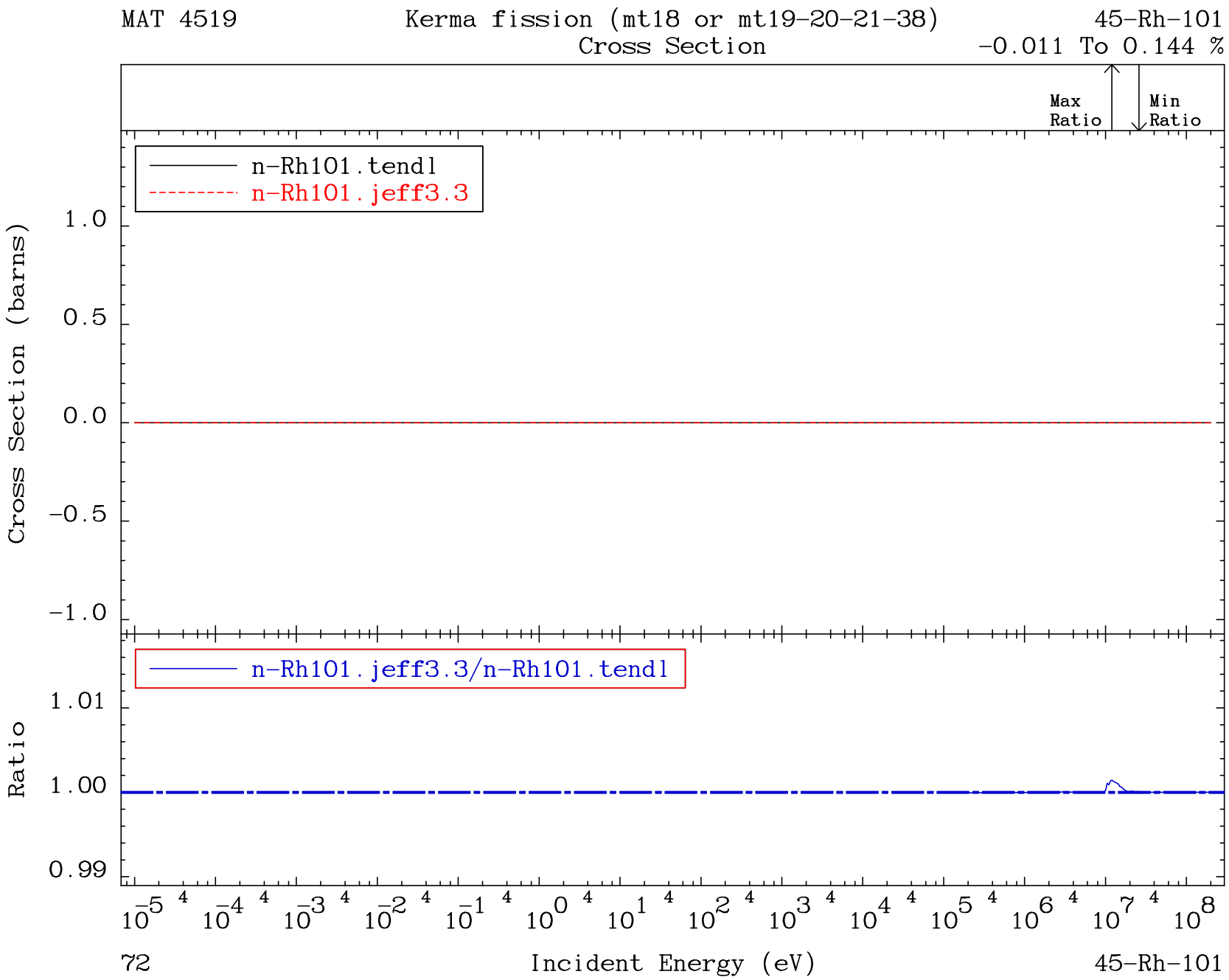

MAT 4519
He-4 Production
Cross Section
45-Rh-101
-4.456 To 2437. %
Max
Ratio
Min
Ratio
n-Rh101.tendl
n-Rh101.jeff3.3
Cross Section (barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
Incident Energy (eV)
67
45-Rh-101

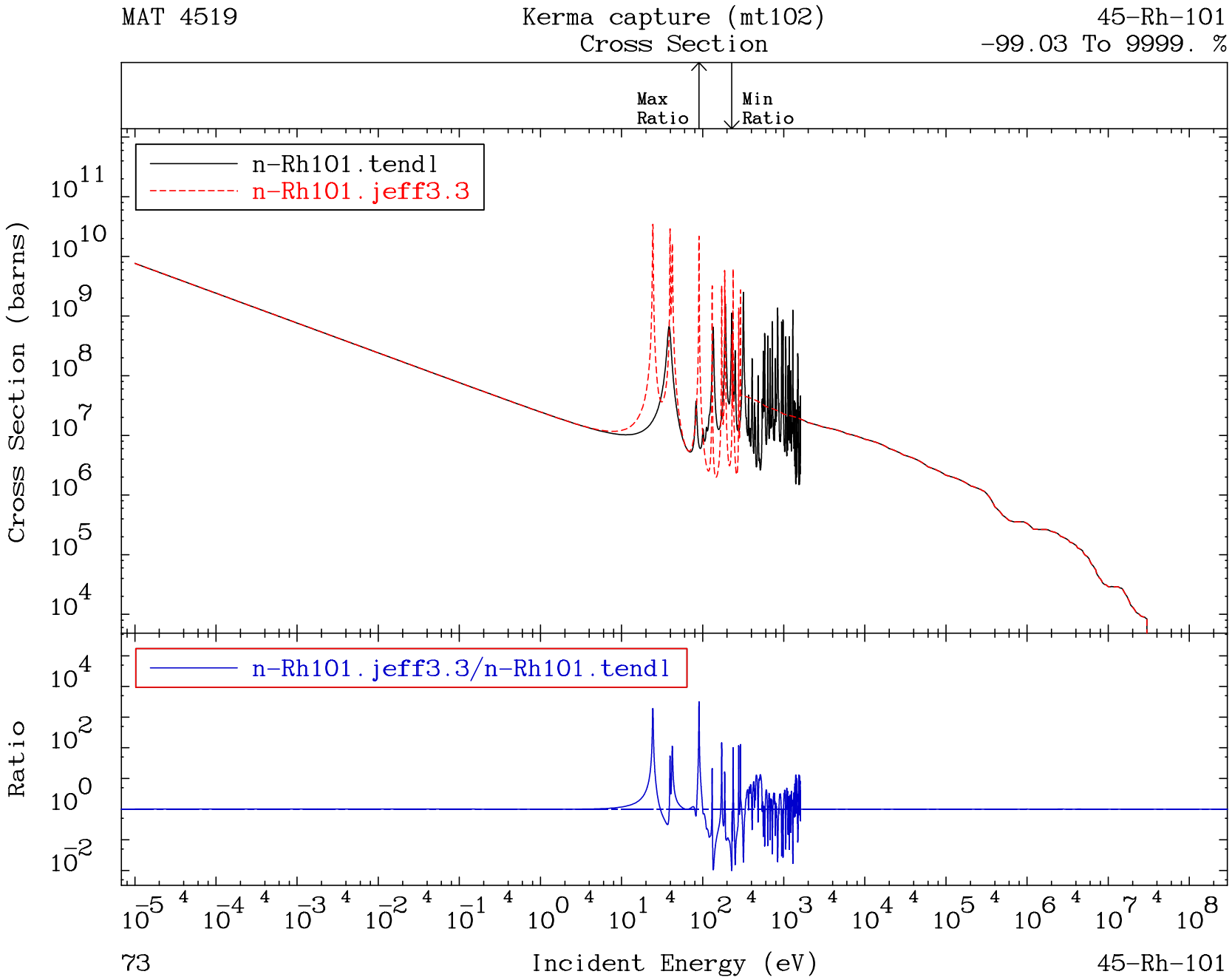

MAT 4519
Kerma total (eV-barns)
Cross Section
45-Rh-101
-99.03 To 9999. %
Max Ratio
Min Ratio
n-Rh101.tendl
n-Rh101.jeff3.3
Cross Section (barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
Incident Energy (eV)
68
45-Rh-101

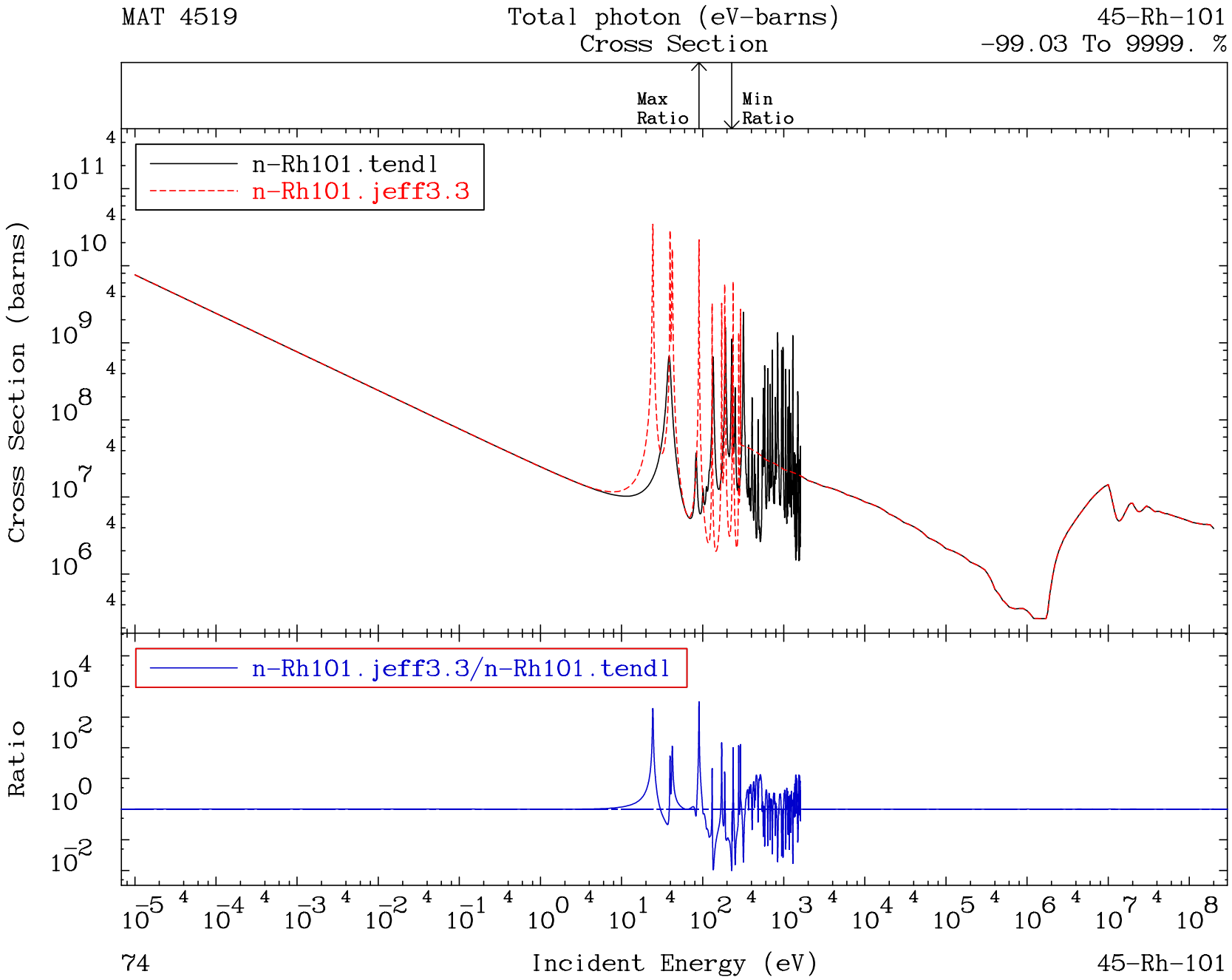

MAT 4519
Kerma elastic
Cross Section
45-Rh-101
-91.20 To 9999. %
Max
Ratio
Min
Ratio
n-Rh101.tendl
n-Rh101.jeff3.3
Cross Section (barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
69
Incident Energy (eV)
45-Rh-101

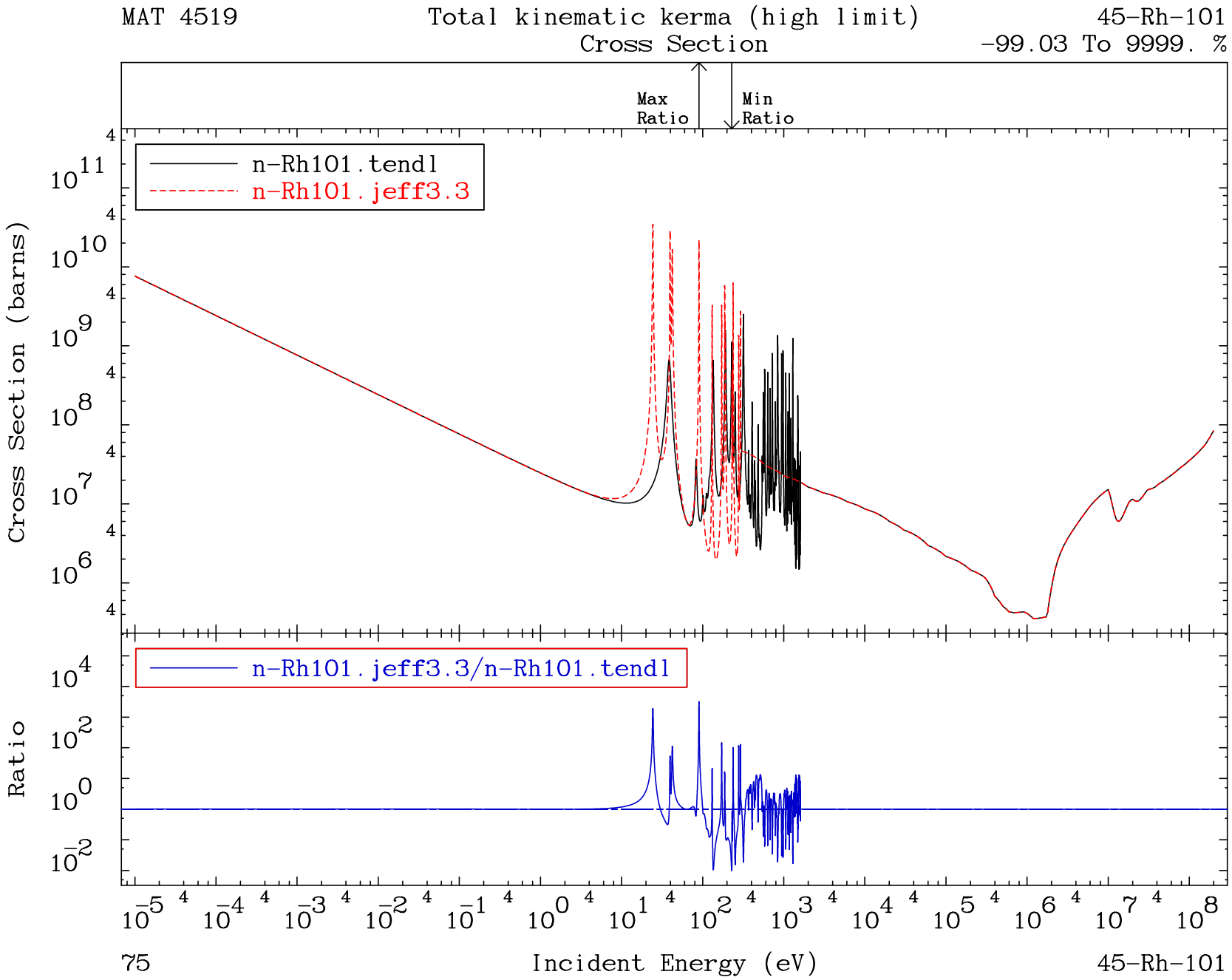

MAT 4519
Kerma non-elastic (all but mt2)
Cross Section
45-Rh-101
-99.03 To 9999. %
Max Ratio
Min Ratio
n-Rh101.tendl
n-Rh101.jeff3.3
Cross Section (barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
Incident Energy (eV)
70
45-Rh-101

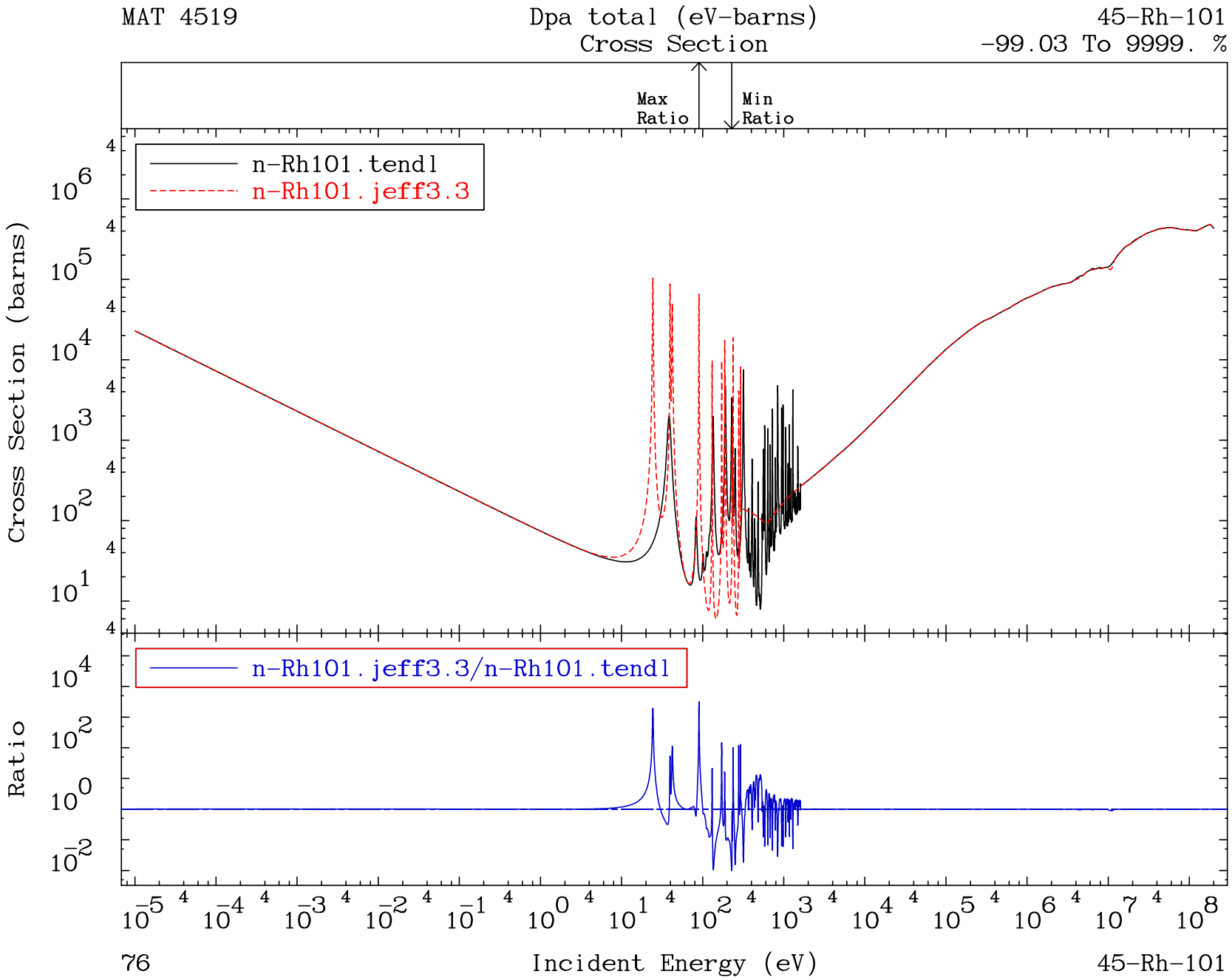

MAT 4519
Kerma inelastic (mt51-91)
Cross Section
45-Rh-101
-0.011 To 0.144 %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 158.89 keV
n-Rh101.jeff3.3 Threshold 158.89 keV
Cross Section (barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
Incident Energy (eV)
71
45-Rh-101

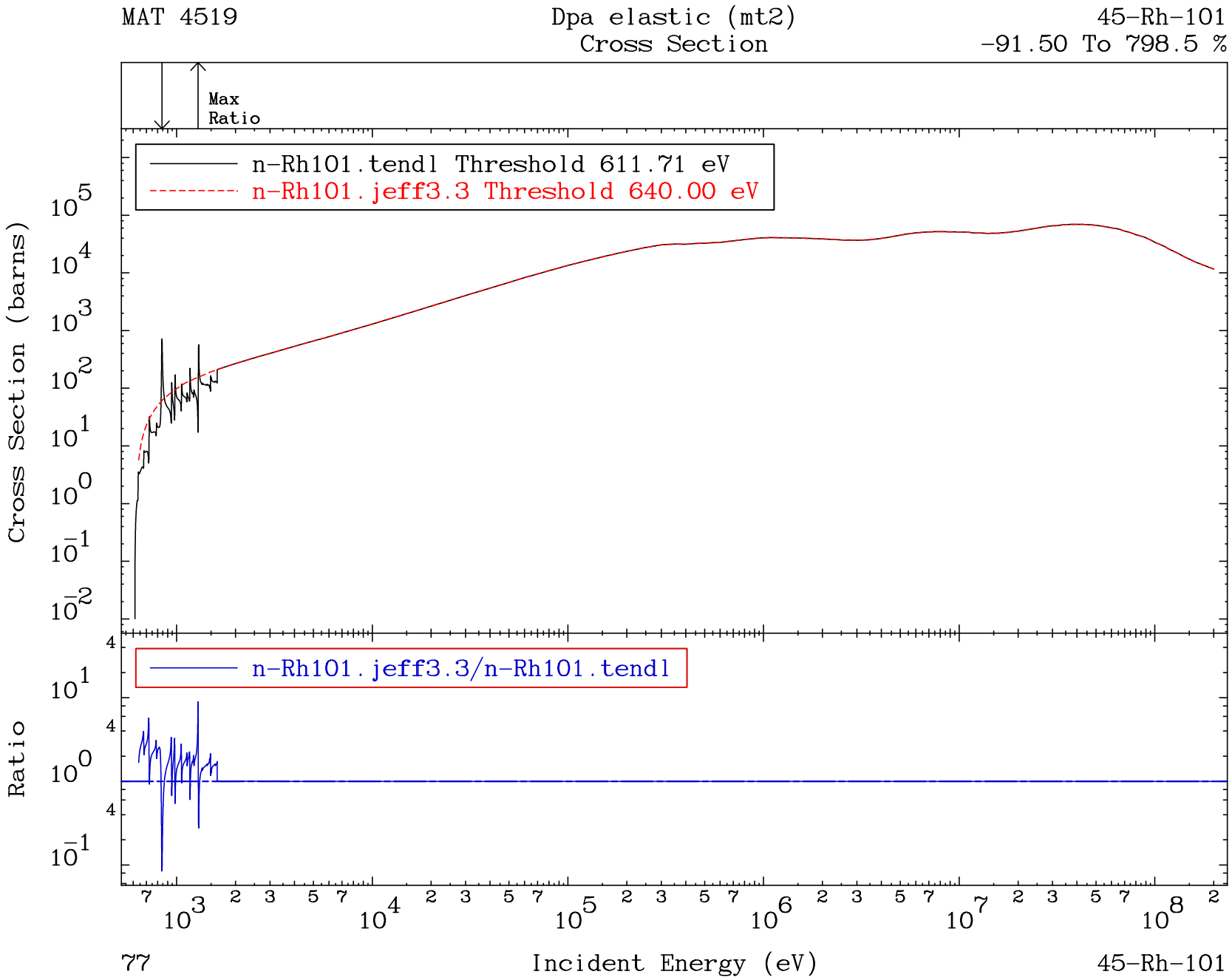

MAT 4519
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
45-Rh-101
-0.011 To 0.144 %
Max Ratio
Min Ratio
n-Rh101.tendl
n-Rh101.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.01
1.00
0.99
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
72
Incident Energy (eV)
45-Rh-101

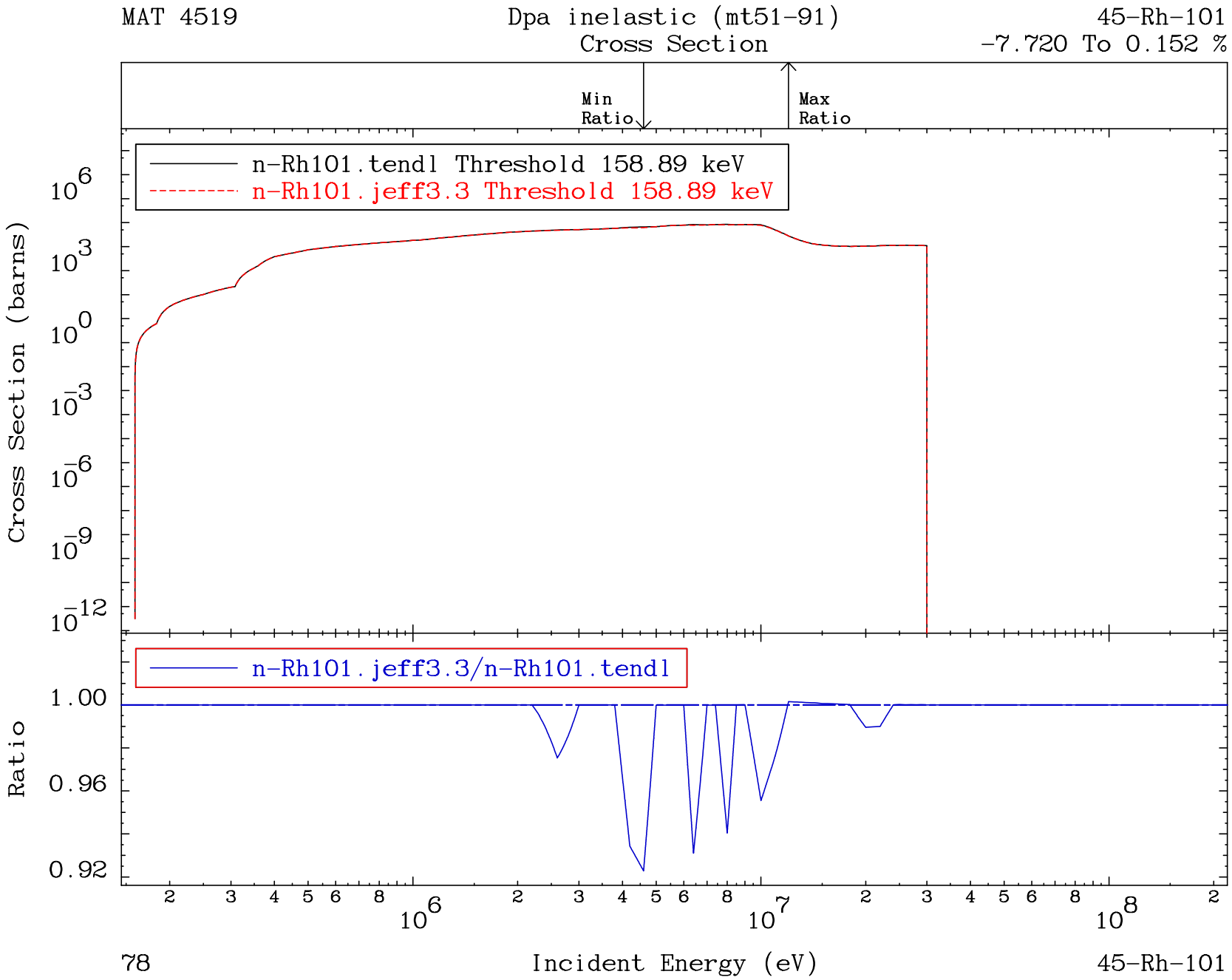

MAT 4519
Kerma capture (mt102)
Cross Section
45-Rh-101
-99.03 To 9999. %
Max Ratio
Min Ratio
n-Rh101.tendl
n-Rh101.jeff3.3
Cross Section (barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
Incident Energy (eV)
73
45-Rh-101

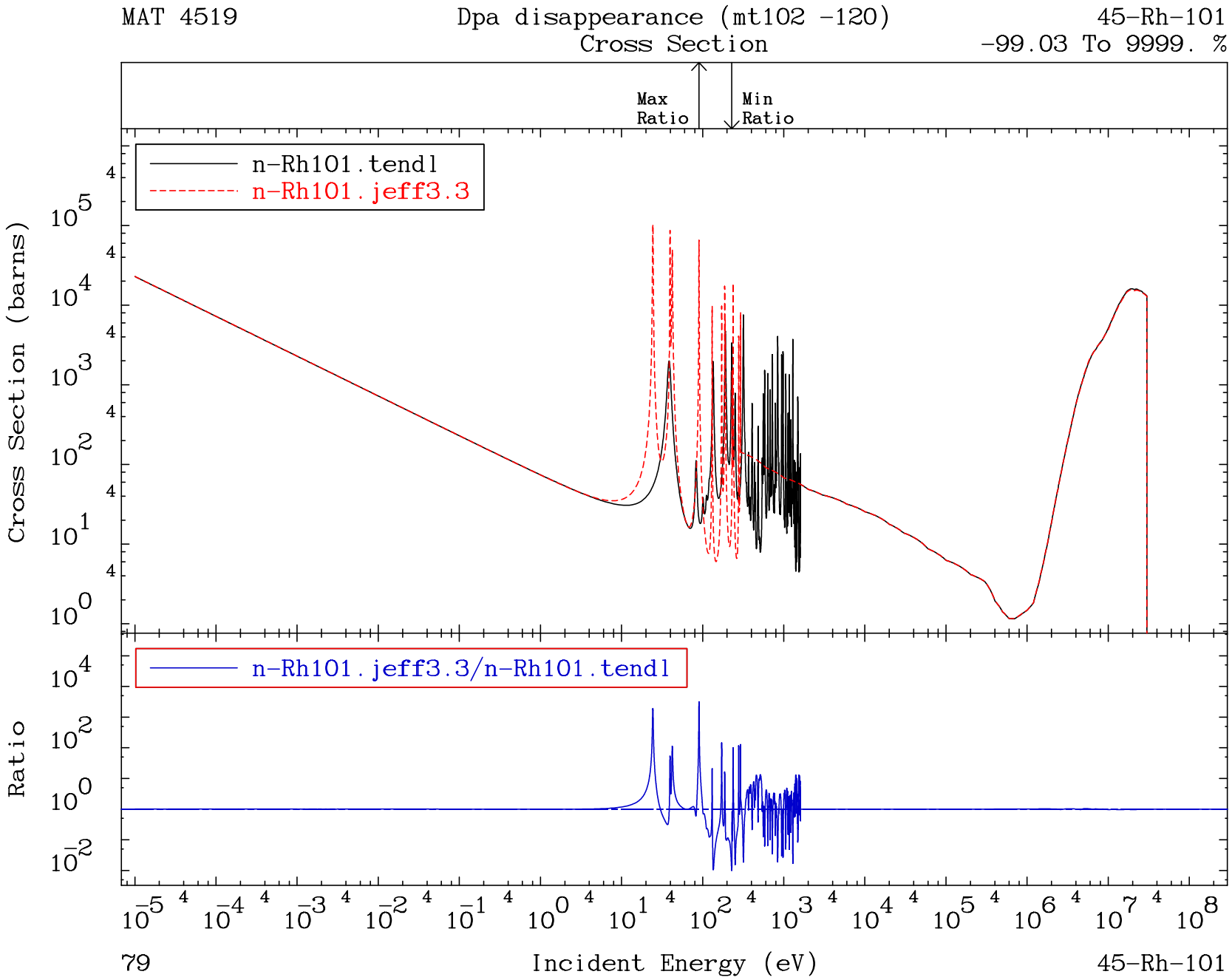

MAT 4519
Total photon (eV-barns)
Cross Section
45-Rh-101
-99.03 To 9999. %
Max Ratio
Min Ratio
n-Rh101.tendl
n-Rh101.jeff3.3
Cross Section (barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
Incident Energy (eV)
74
45-Rh-101

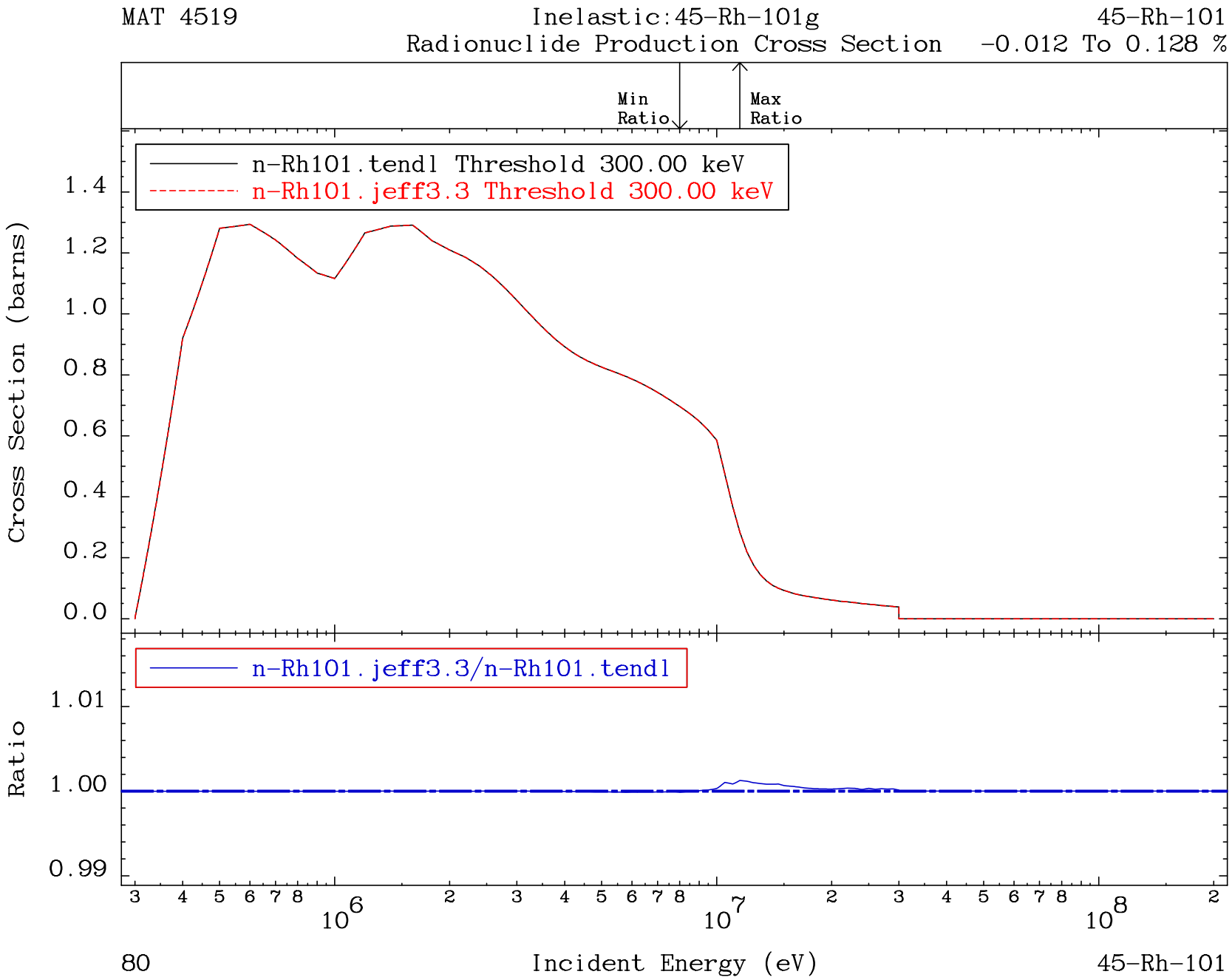

MAT 4519
Total kinematic kerma (high limit)
Cross Section
45-Rh-101
-99.03 To 9999. %
Max Ratio
Min Ratio
n-Rh101.tendl
n-Rh101.jeff3.3
Cross Section (barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
Incident Energy (eV)
75
45-Rh-101

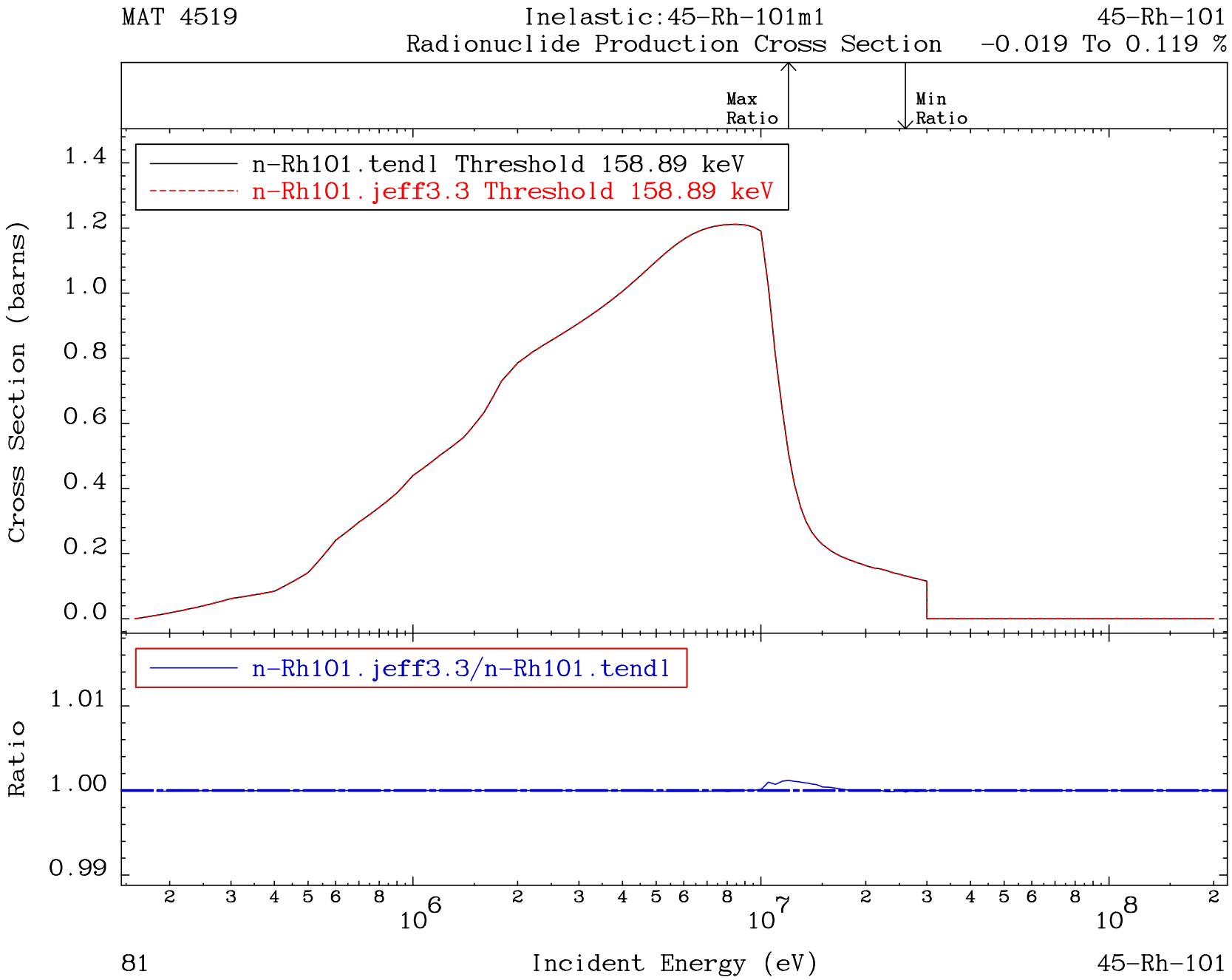

MAT 4519
Dpa total (eV-barns)
Cross Section
45-Rh-101
-99.03 To 9999. %
Max Ratio
Min Ratio
n-Rh101.tendl
n-Rh101.jeff3.3
Cross Section (barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
Incident Energy (eV)
76
45-Rh-101

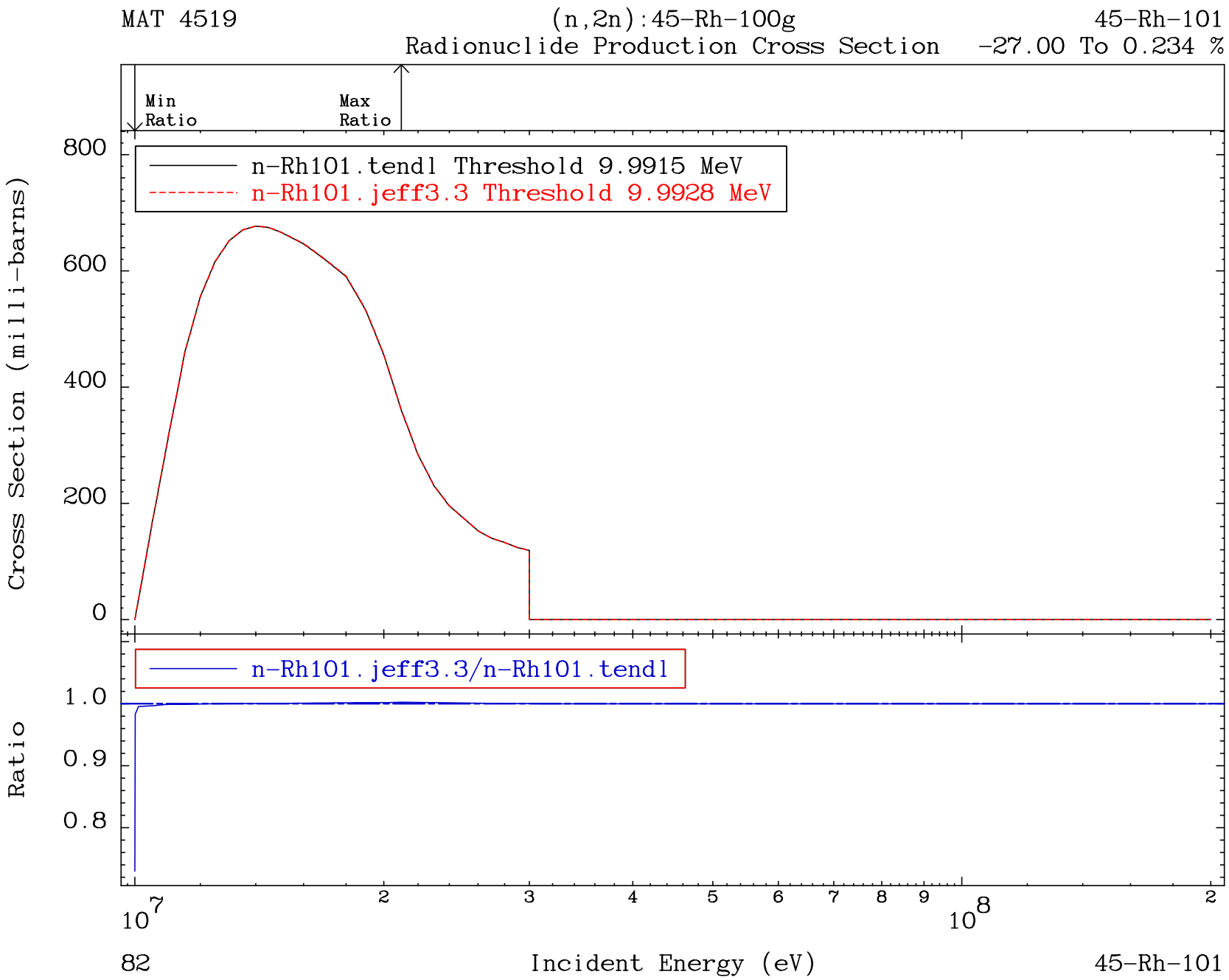

MAT 4519
Dpa elastic (mt2)
Cross Section
45-Rh-101
-91.50 To 798.5 %
Max
Ratio
n-Rh101.tendl Threshold 611.71 eV
n-Rh101.jeff3.3 Threshold 640.00 eV
Cross Section (barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
Incident Energy (eV)
77
45-Rh-101

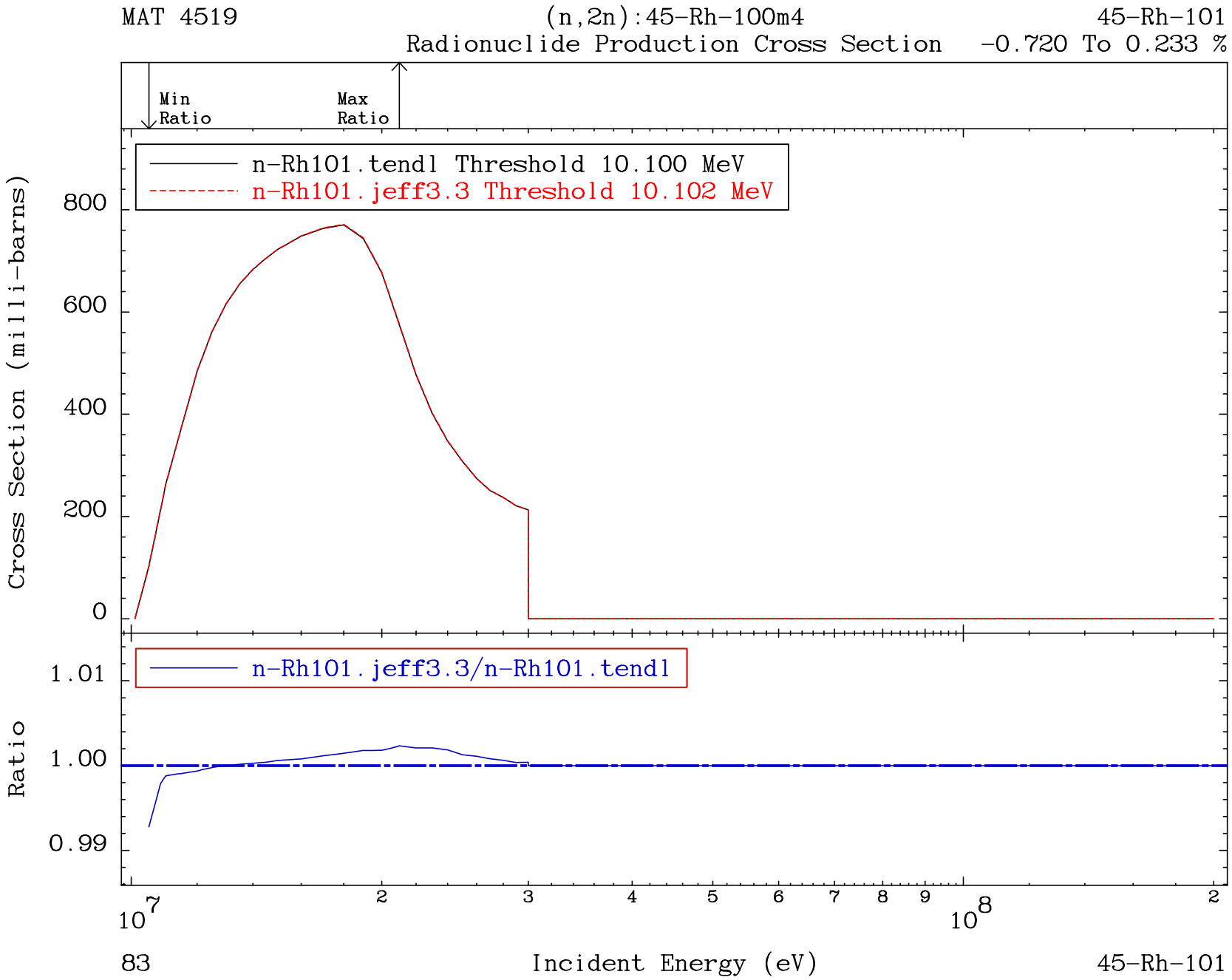

MAT 4519
Dpa inelastic (mt51-91)
Cross Section
45-Rh-101
-7.720 To 0.152 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 158.89 keV
n-Rh101.jeff3.3 Threshold 158.89 keV
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
10^-9
10^-12
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.00
0.96
0.92
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
78
Incident Energy (eV)
45-Rh-101

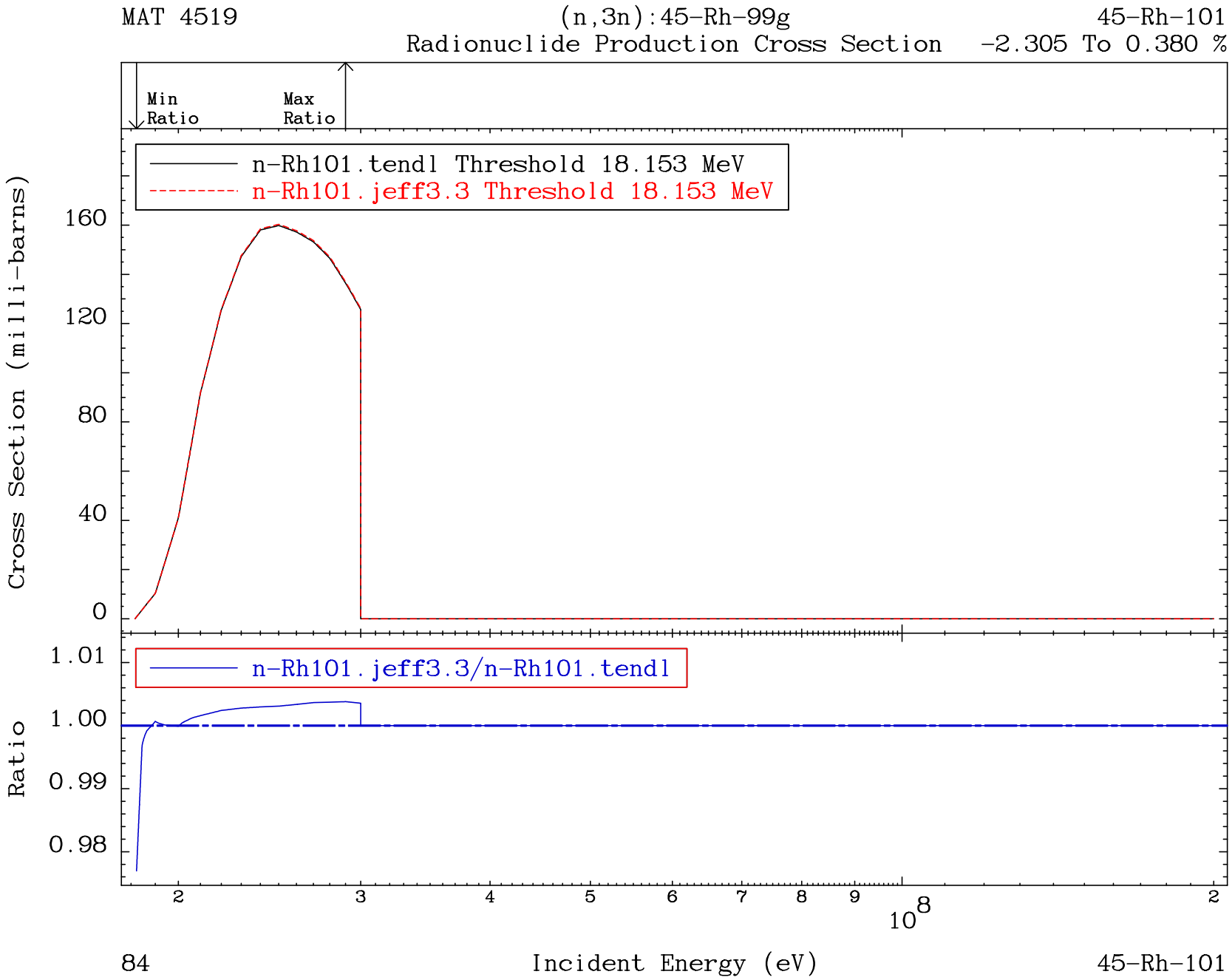

MAT 4519
Dpa disappearance (mt102 -120)
Cross Section
45-Rh-101
-99.03 To 9999. %
Max Ratio
Min Ratio
n-Rh101.tendl
n-Rh101.jeff3.3
Cross Section (barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
79
Incident Energy (eV)
45-Rh-101

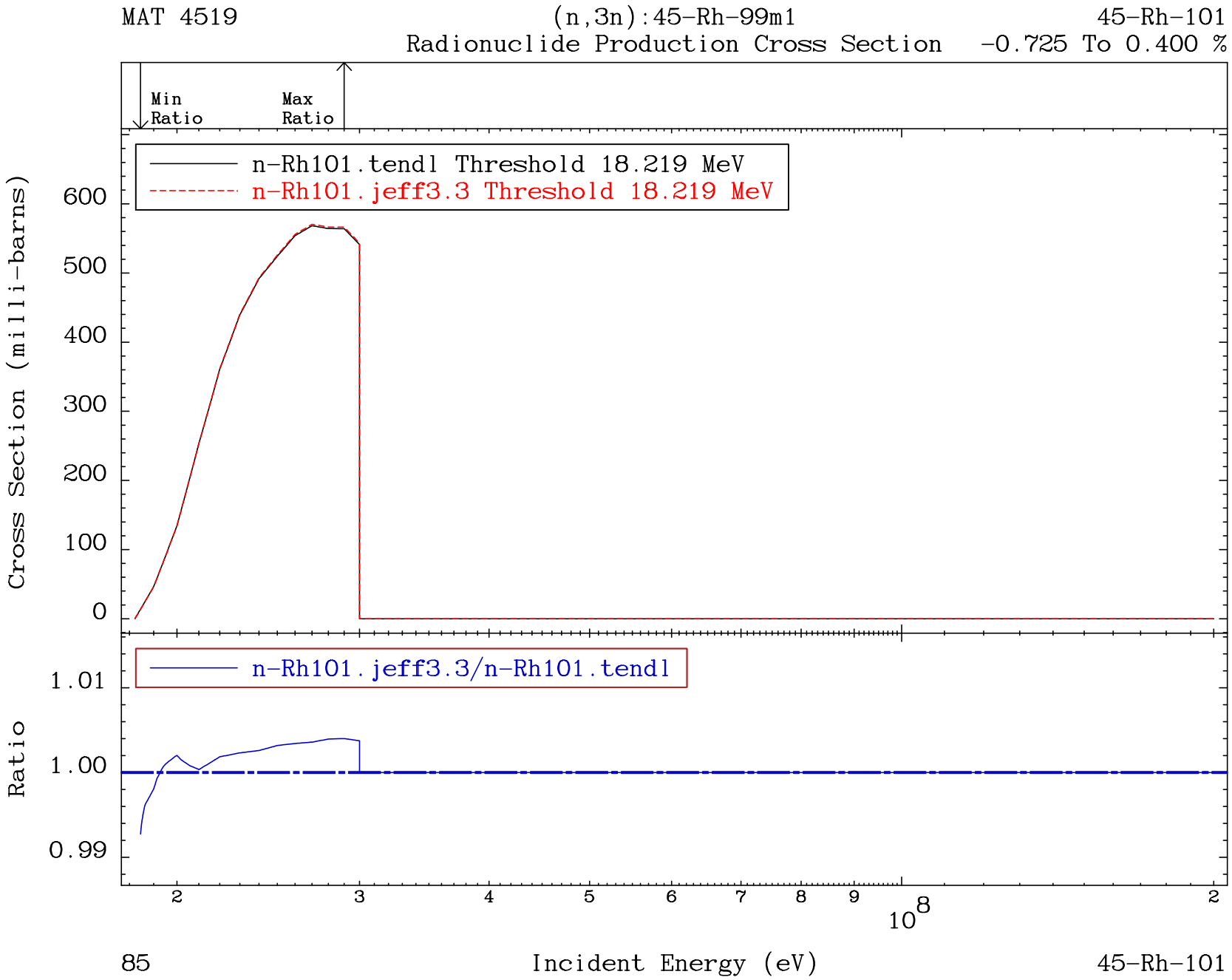

MAT 4519
Inelastic:45-Rh-101g
45-Rh-101
Radionuclide Production Cross Section
-0.012 To 0.128 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 300.00 keV
n-Rh101.jeff3.3 Threshold 300.00 keV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
80
Incident Energy (eV)
45-Rh-101

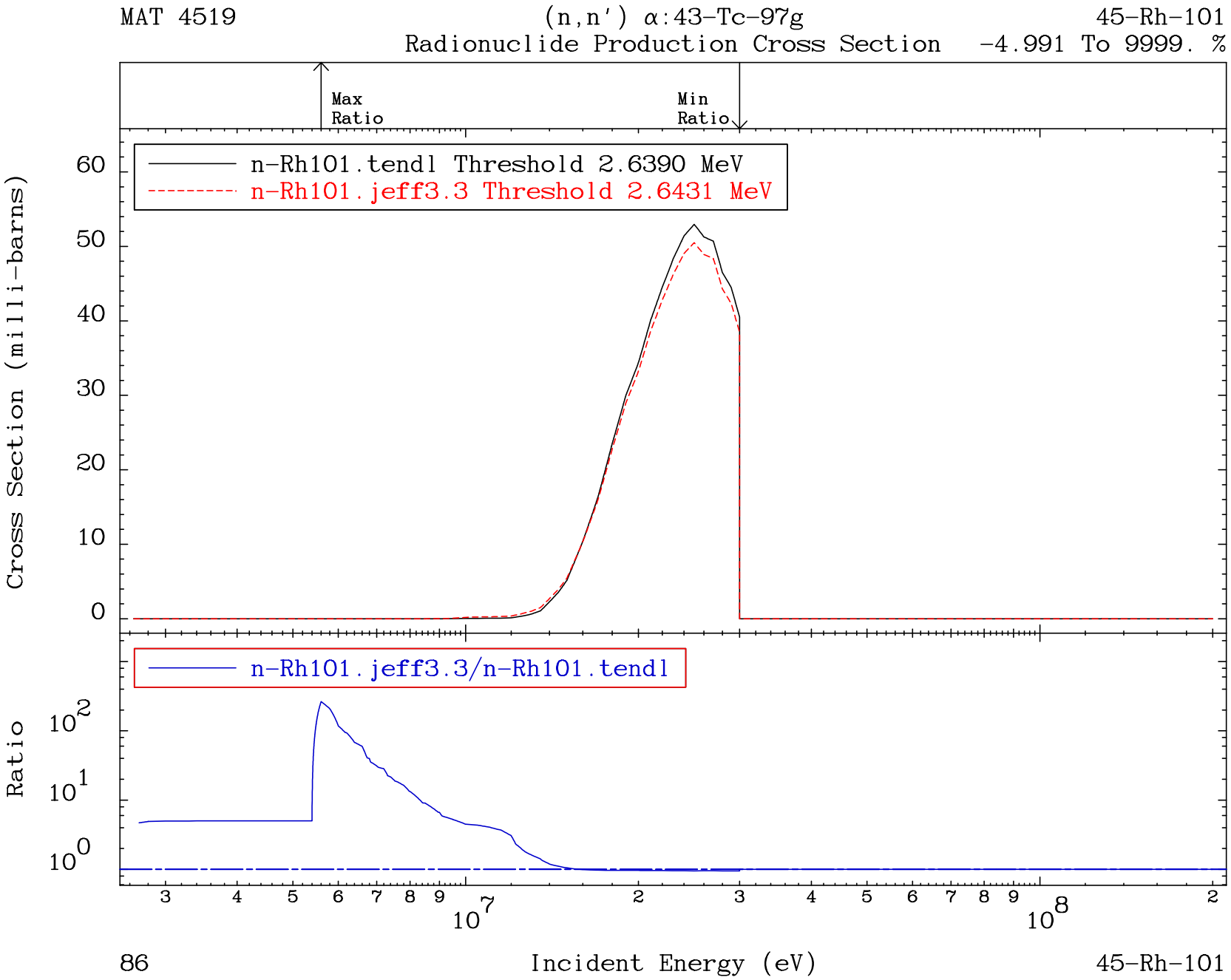

MAT 4519
Inelastic:45-Rh-101m1
45-Rh-101
Radionuclide Production Cross Section
-0.019 To 0.119 %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 158.89 keV
n-Rh101.jeff3.3 Threshold 158.89 keV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
81
Incident Energy (eV)
45-Rh-101

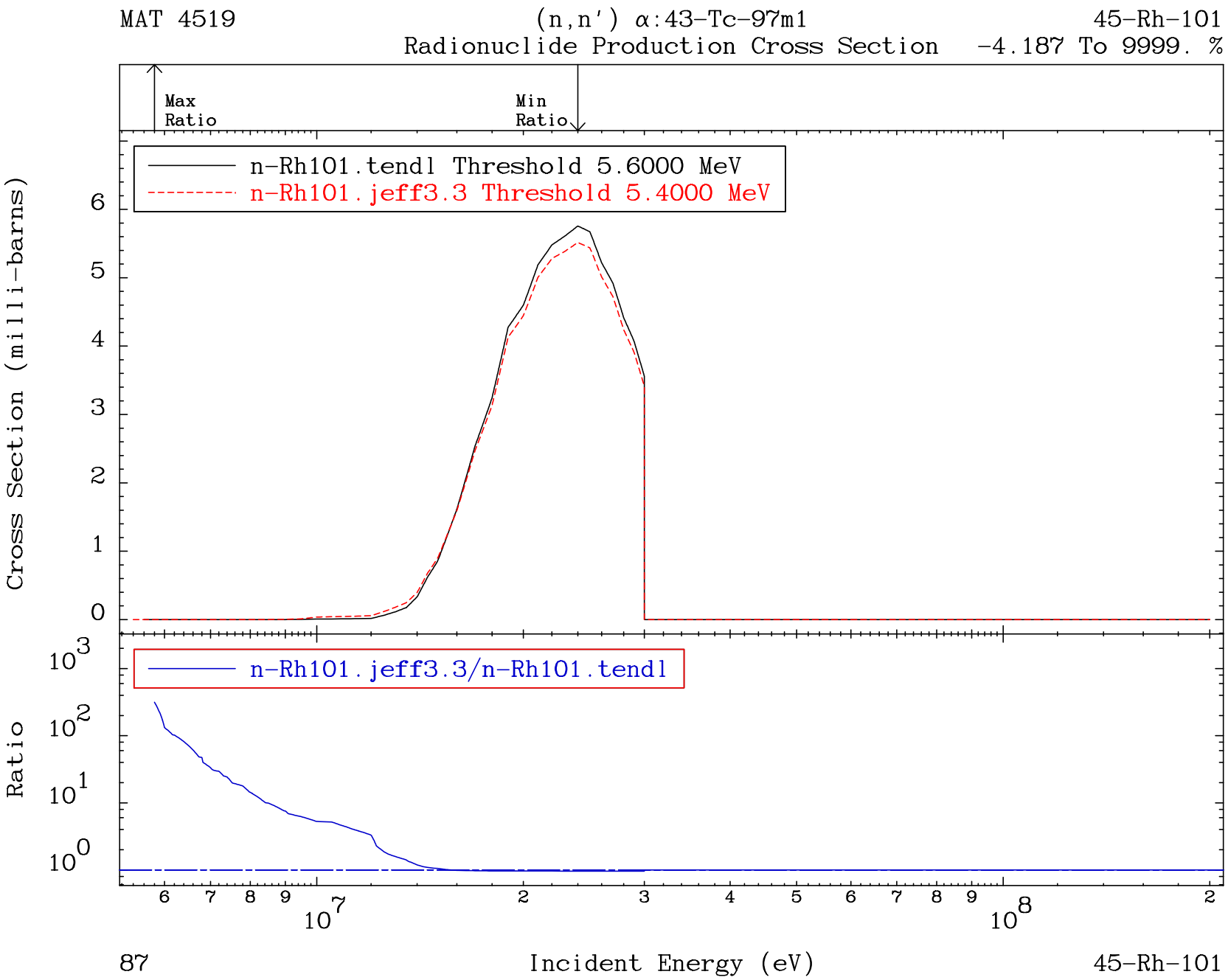

MAT 4519
(n,2n):45-Rh-100g
45-Rh-101
Radionuclide Production Cross Section
-27.00 To 0.234 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 9.9915 MeV
n-Rh101.jeff3.3 Threshold 9.9928 MeV
Cross Section (milli-barns)
800
600
400
200
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.0
0.9
0.8
10^7
2
3
4
5
6
7
8
9
10^8
2
82
Incident Energy (eV)
45-Rh-101

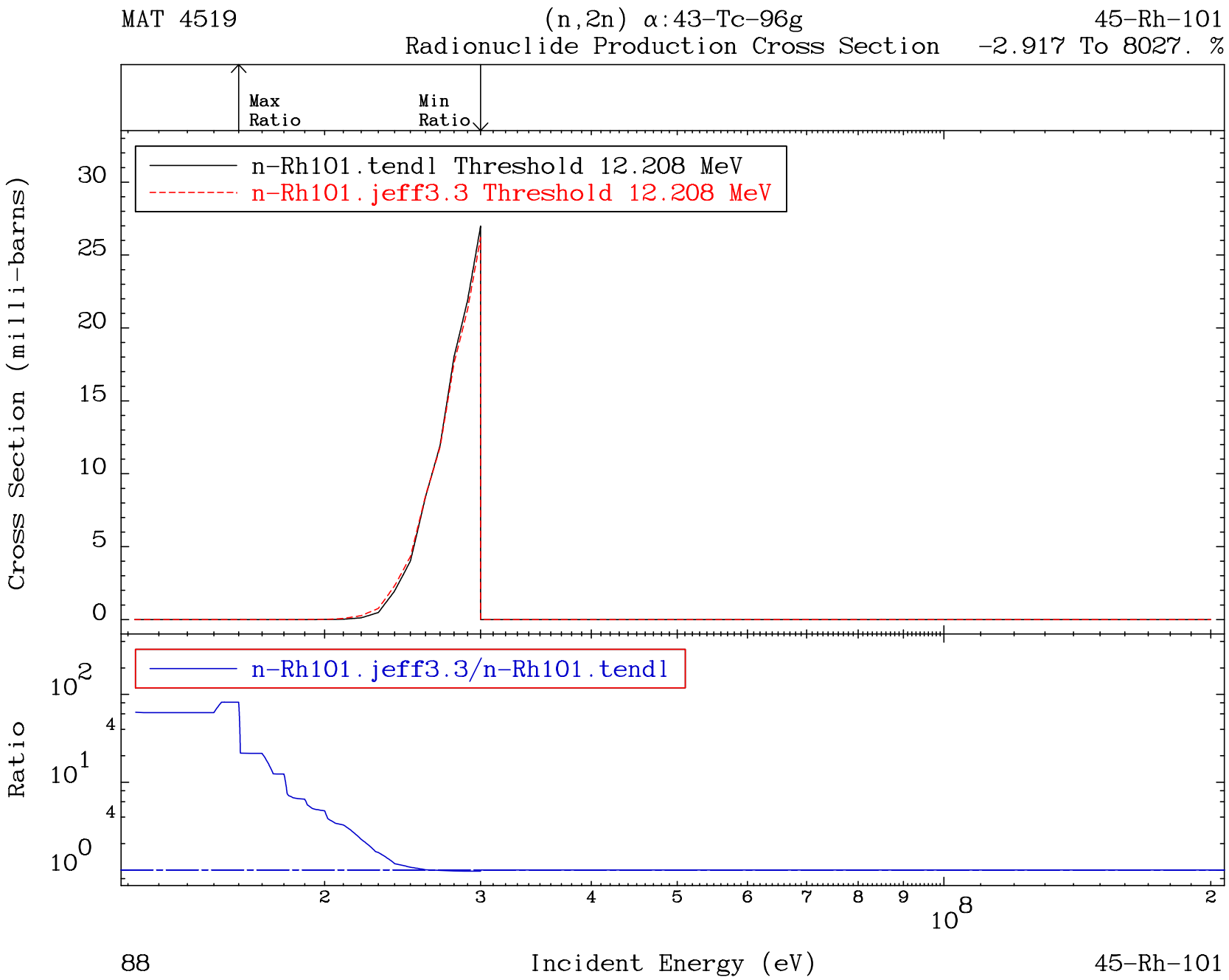

MAT 4519
(n,2n):45-Rh-100m4
45-Rh-101
Radionuclide Production Cross Section
-0.720 To 0.233 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 10.100 MeV
n-Rh101.jeff3.3 Threshold 10.102 MeV
Cross Section (milli-barns)
800
600
400
200
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.01
1.00
0.99
10^7
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
45-Rh-101

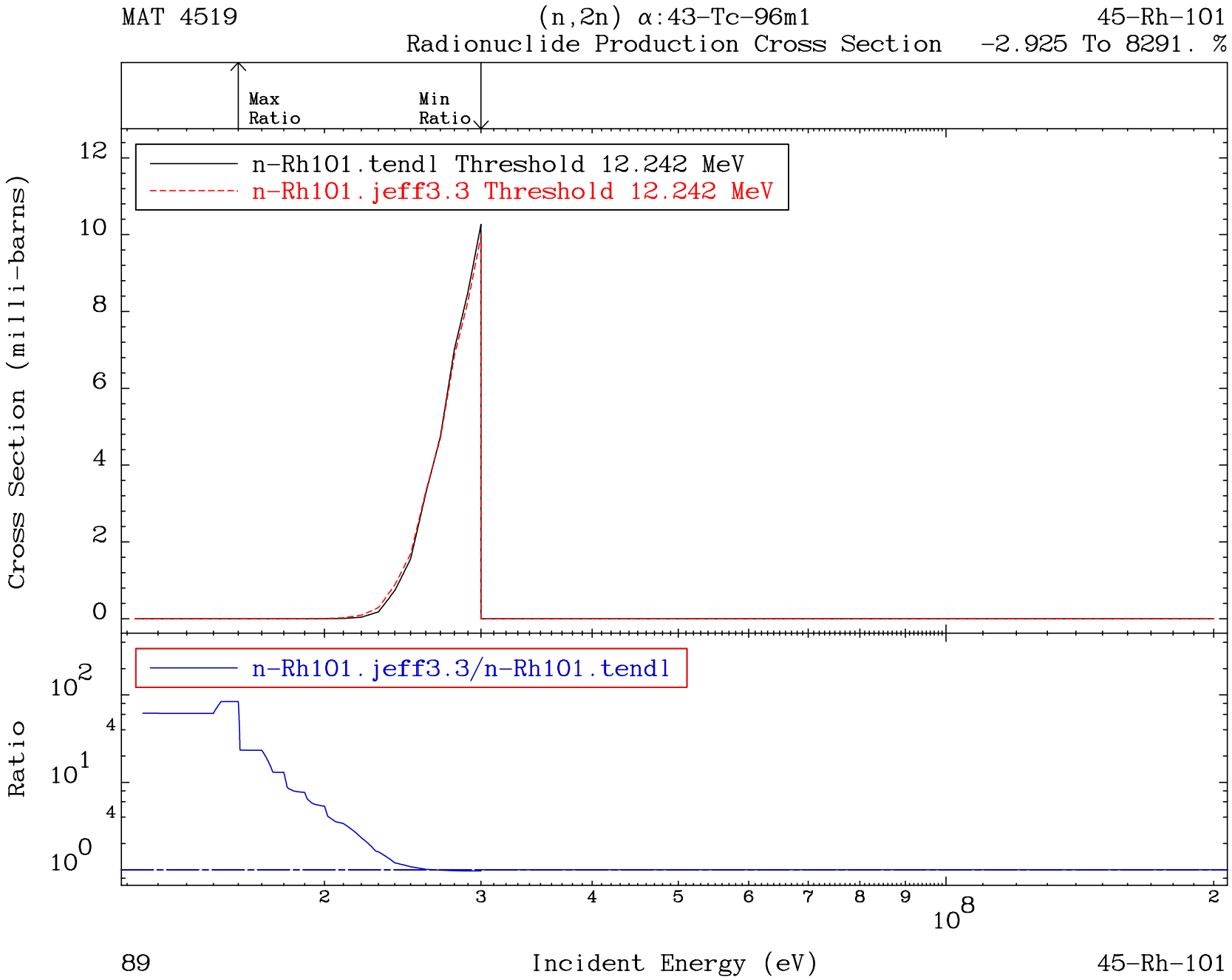

MAT 4519
(n,3n):45-Rh-99g
45-Rh-101
Radionuclide Production Cross Section
-2.305 To 0.380 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 18.153 MeV
n-Rh101.jeff3.3 Threshold 18.153 MeV
Cross Section (milli-barns)
160
120
80
40
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.01
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
45-Rh-101

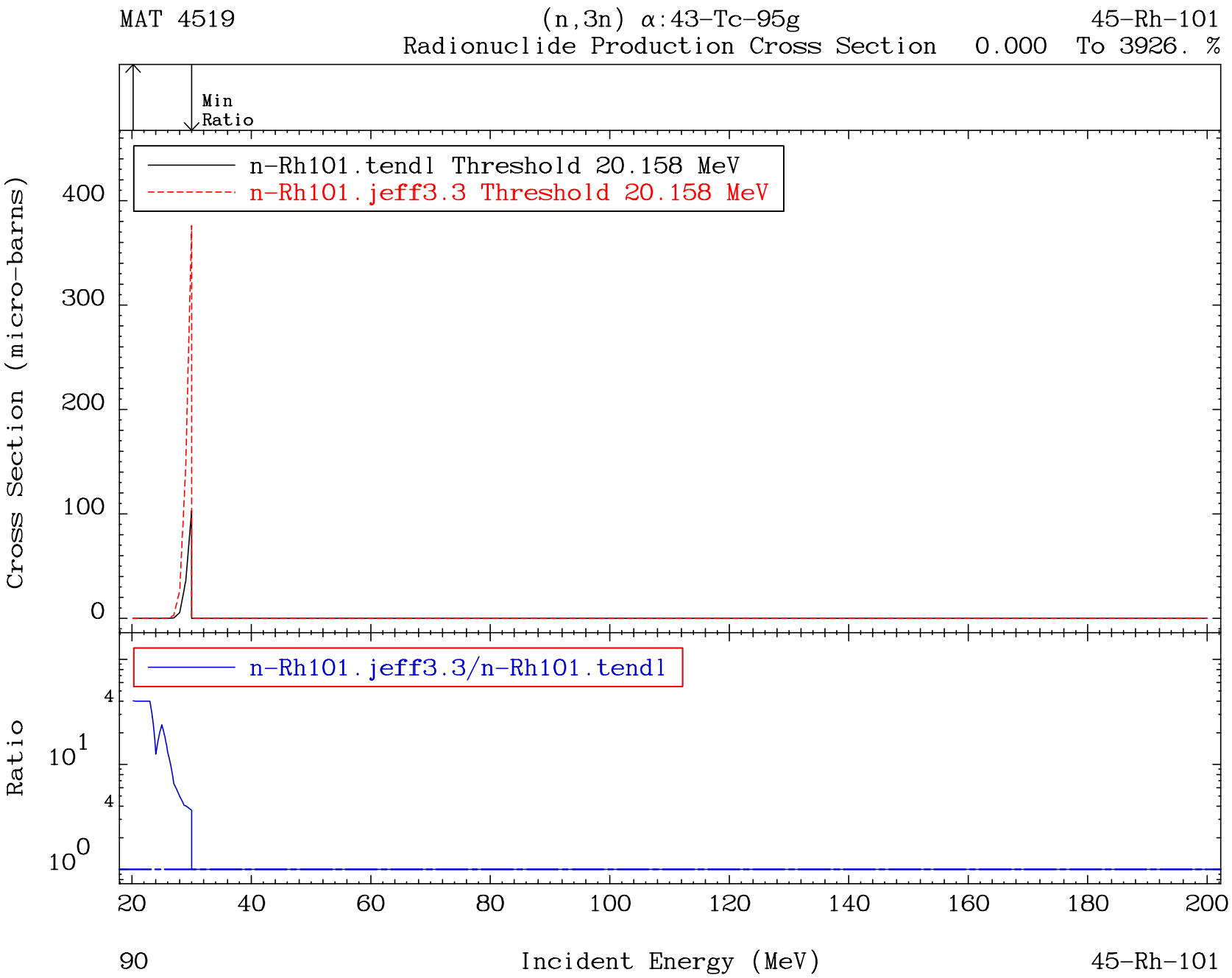

MAT 4519
(n,3n):45-Rh-99m1
45-Rh-101
Radionuclide Production Cross Section
-0.725 To 0.400 %
Min Ratio
Max Ratio
n-Rh101.tendl Threshold 18.219 MeV
n-Rh101.jeff3.3 Threshold 18.219 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
45-Rh-101

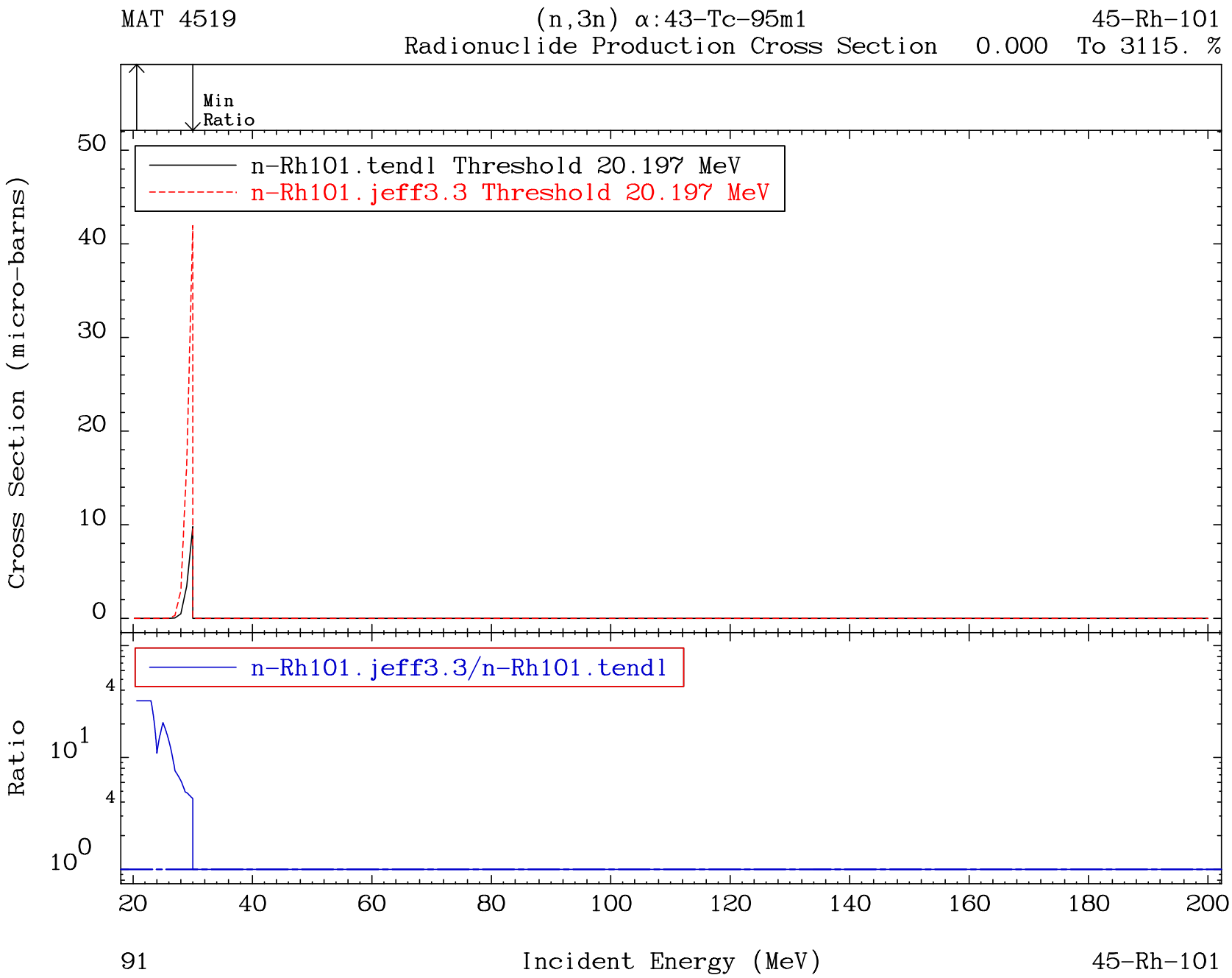

MAT 4519
(n,n') α:43-Tc-97g
45-Rh-101
Radionuclide Production Cross Section -4.991 To 9999. %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 2.6390 MeV
n-Rh101.jeff3.3 Threshold 2.6431 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
10^2
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
86
Incident Energy (eV)
45-Rh-101

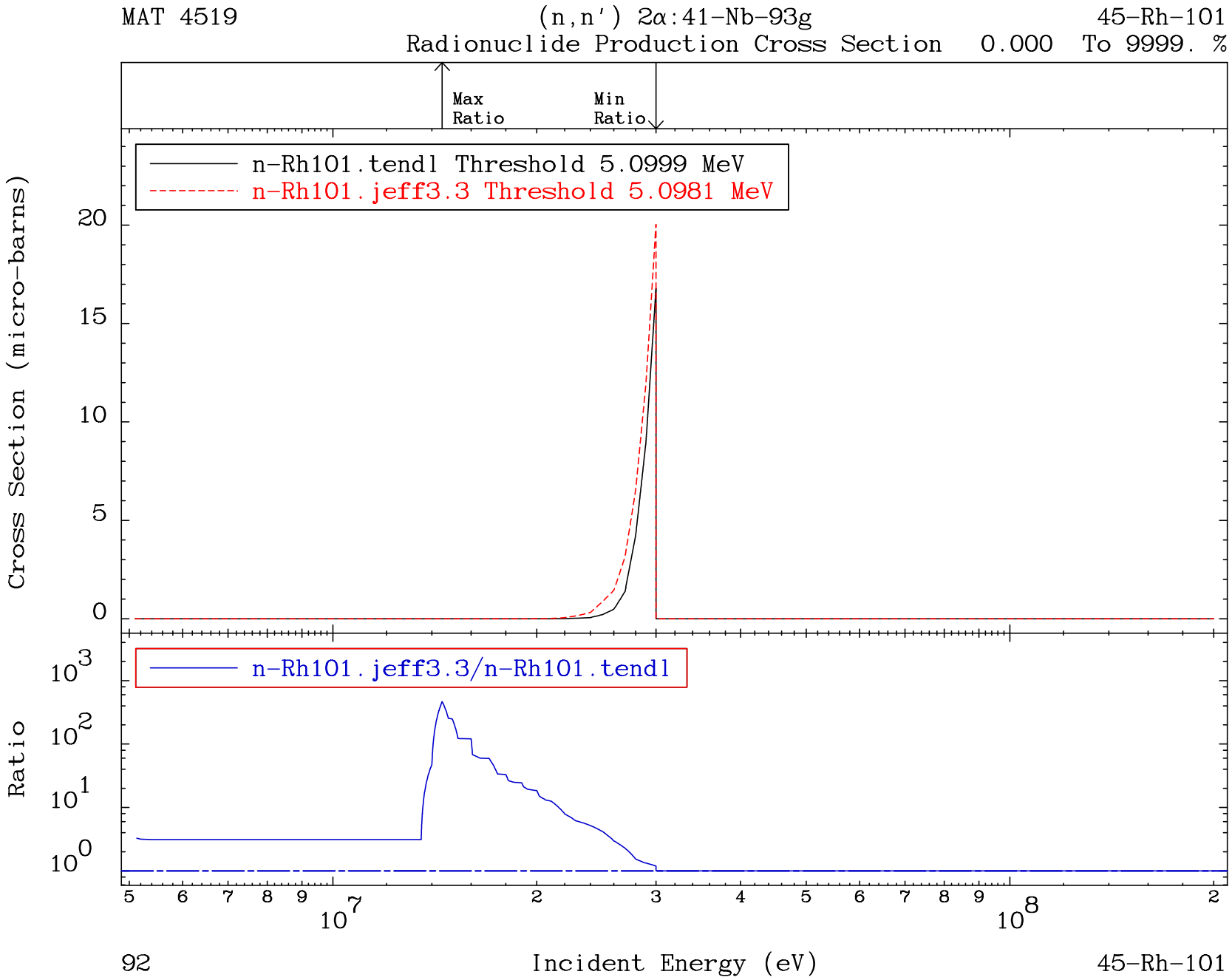

MAT 4519
(n,n') α:43-Tc-97m1
45-Rh-101
Radionuclide Production Cross Section -4.187 To 9999. %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 5.6000 MeV
n-Rh101.jeff3.3 Threshold 5.4000 MeV
Cross Section (milli-barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
Incident Energy (eV)
87
45-Rh-101

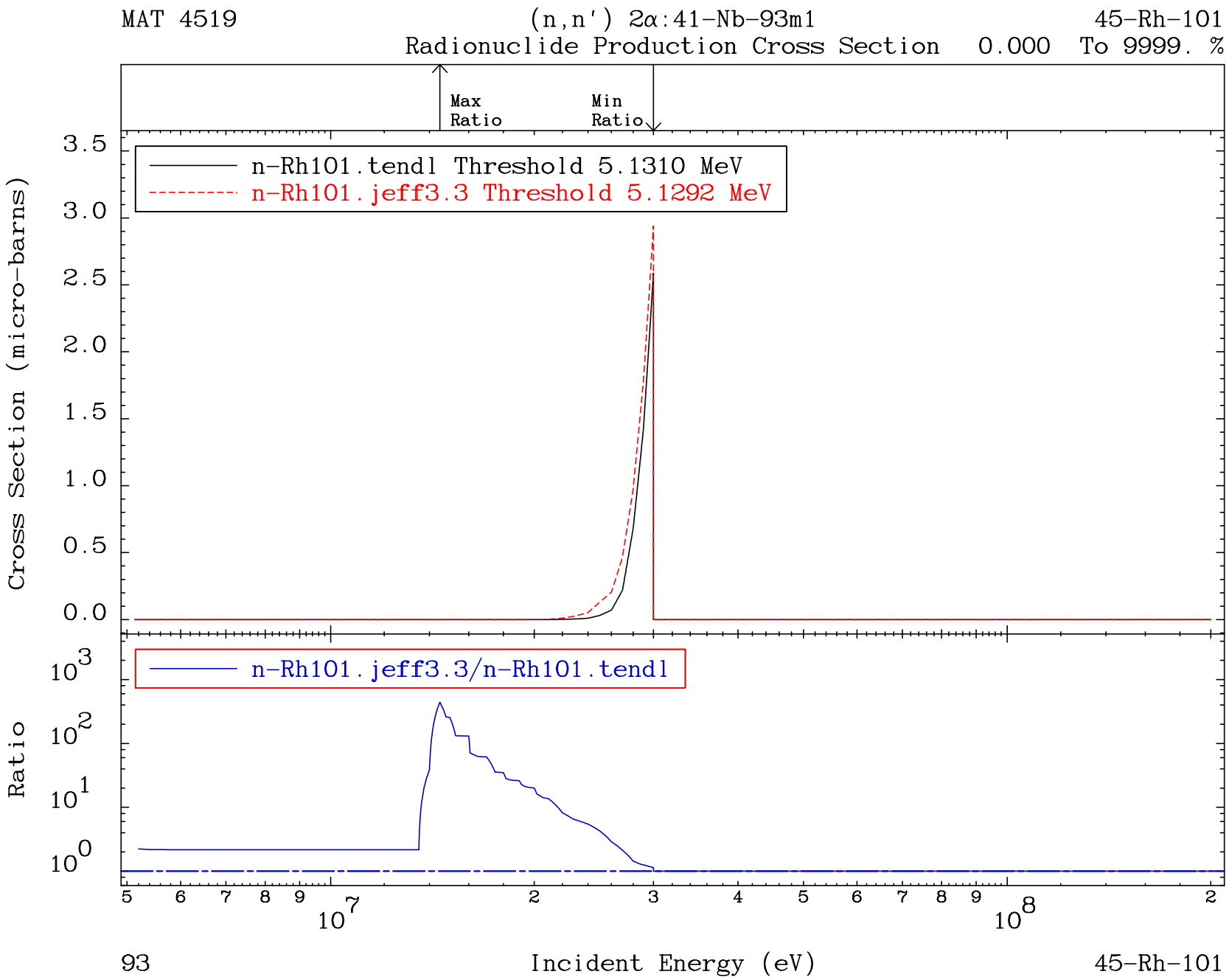

MAT 4519
(n,2n) α:43-Tc-96g
45-Rh-101
Radionuclide Production Cross Section -2.917 To 8027. %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 12.208 MeV
n-Rh101.jeff3.3 Threshold 12.208 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
88
Incident Energy (eV)
45-Rh-101

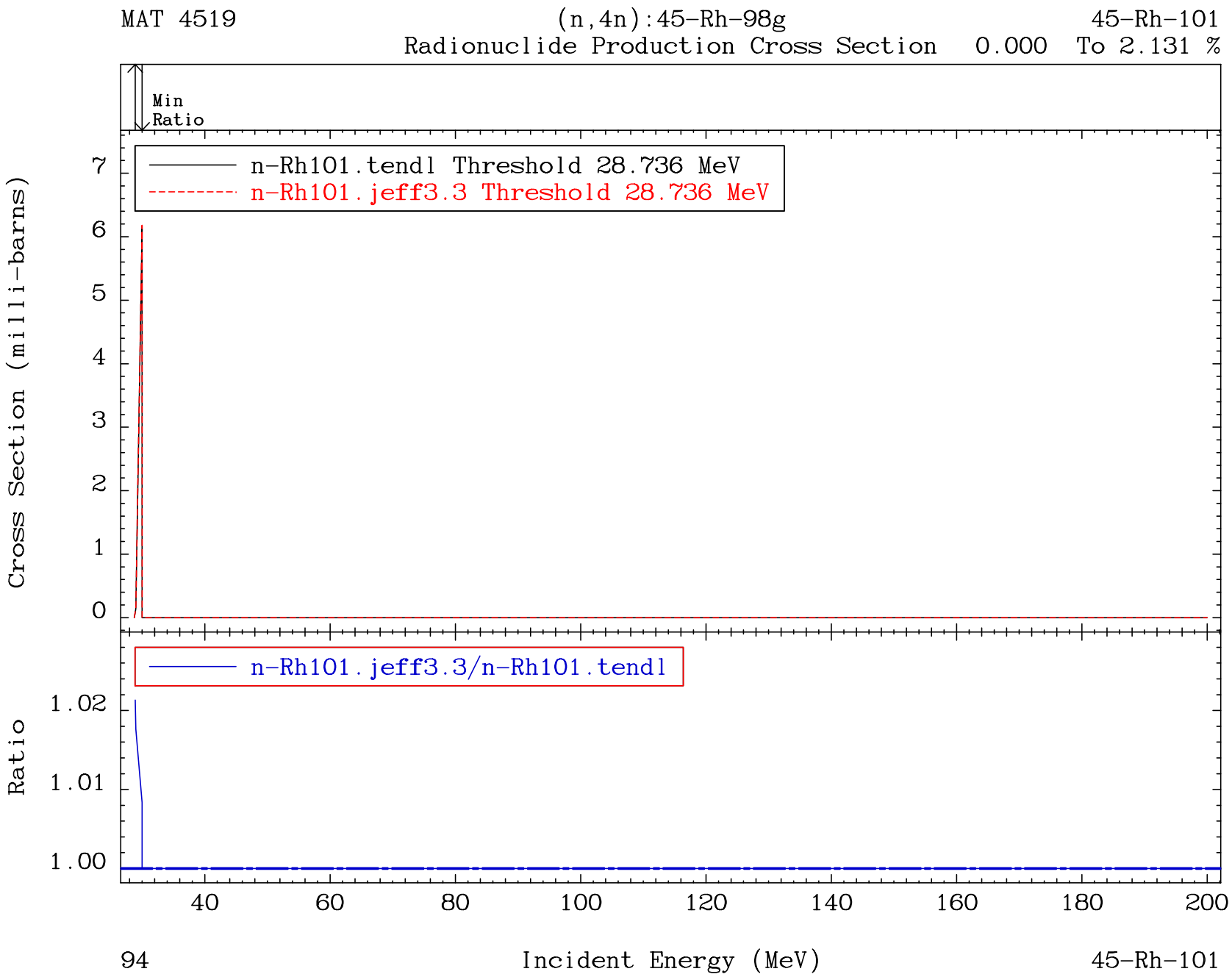

MAT 4519
(n,2n) α:43-Tc-96m1
45-Rh-101
Radionuclide Production Cross Section -2.925 To 8291. %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 12.242 MeV
n-Rh101.jeff3.3 Threshold 12.242 MeV
Cross Section (milli-barns)
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
Incident Energy (eV)
89
45-Rh-101

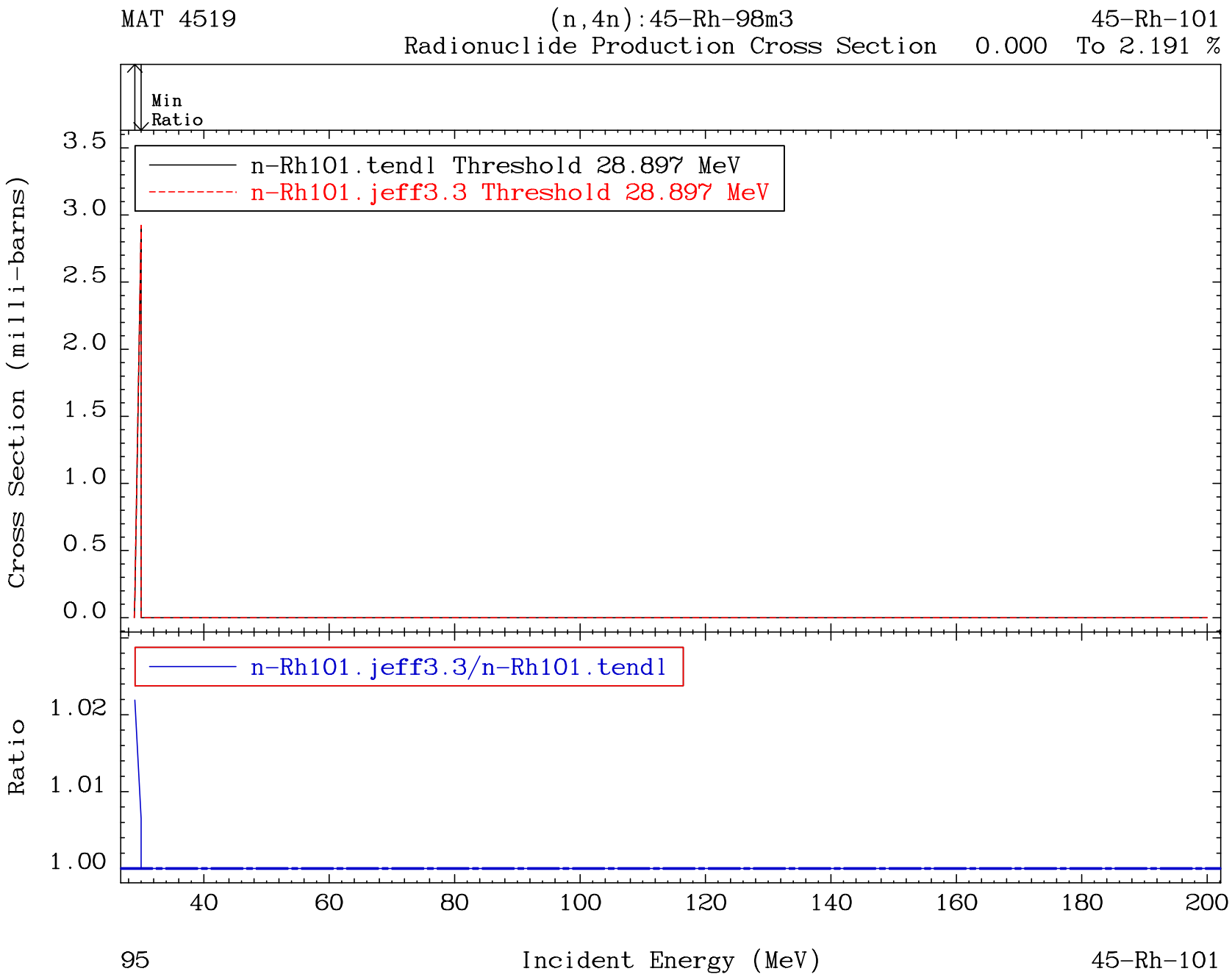

MAT 4519
(n,3n) α:43-Tc-95g
45-Rh-101
Radionuclide Production Cross Section 0.000 To 3926. %
Min Ratio
n-Rh101.tendl Threshold 20.158 MeV
n-Rh101.jeff3.3 Threshold 20.158 MeV
Cross Section (micro-barns)
400
300
200
100
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
10^1
4
4
10^0
20
40
60
80
100
120
140
160
180
200
90
Incident Energy (MeV)
45-Rh-101

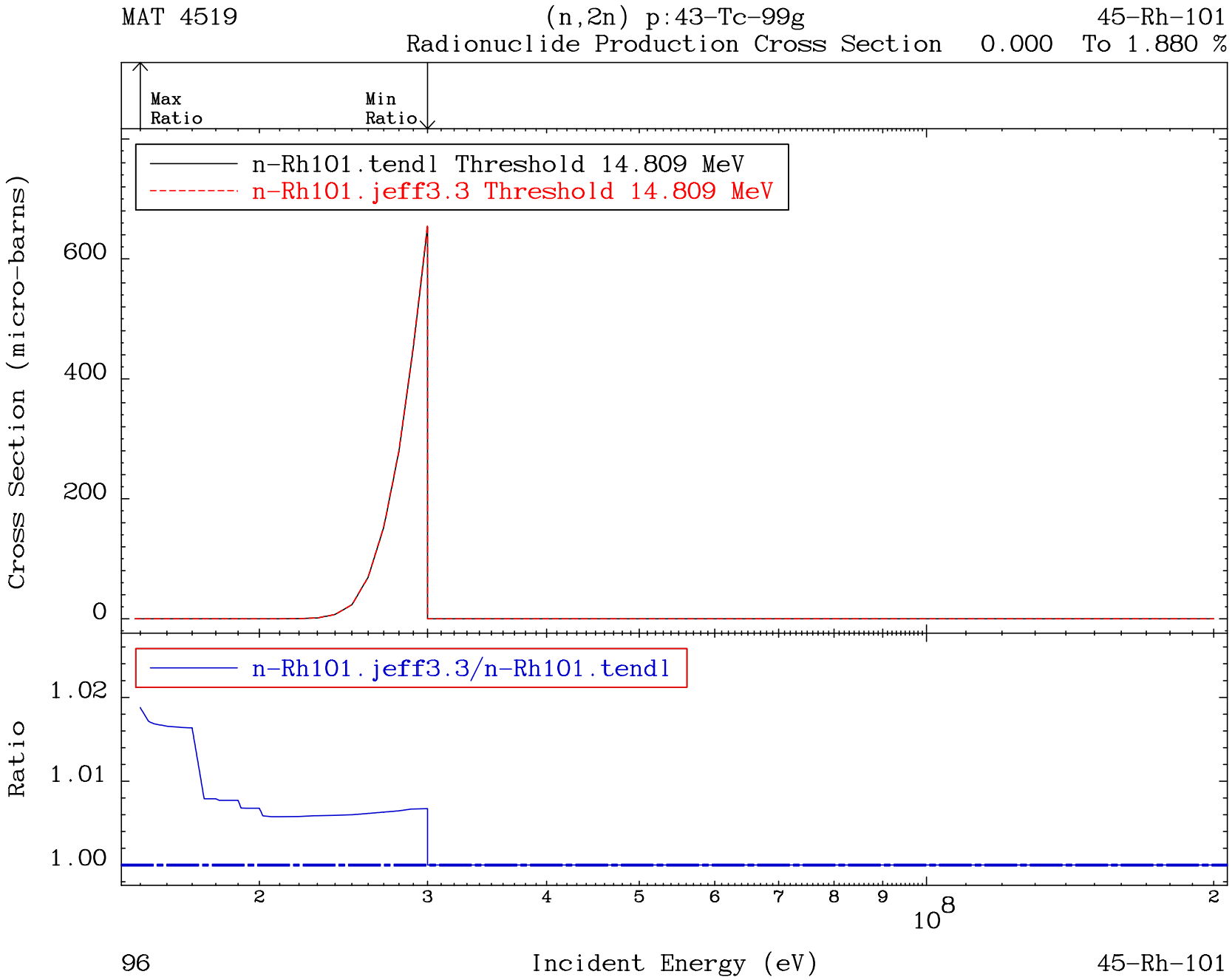

MAT 4519
(n,3n) α:43-Tc-95m1
45-Rh-101
Radionuclide Production Cross Section 0.000 To 3115. %
Min
Ratio
n-Rh101.tendl Threshold 20.197 MeV
n-Rh101.jeff3.3 Threshold 20.197 MeV
Cross Section (micro-barns)
50
40
30
20
10
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
4
10^1
4
10^0
20
40
60
80
100
120
140
160
180
200
91
Incident Energy (MeV)
45-Rh-101

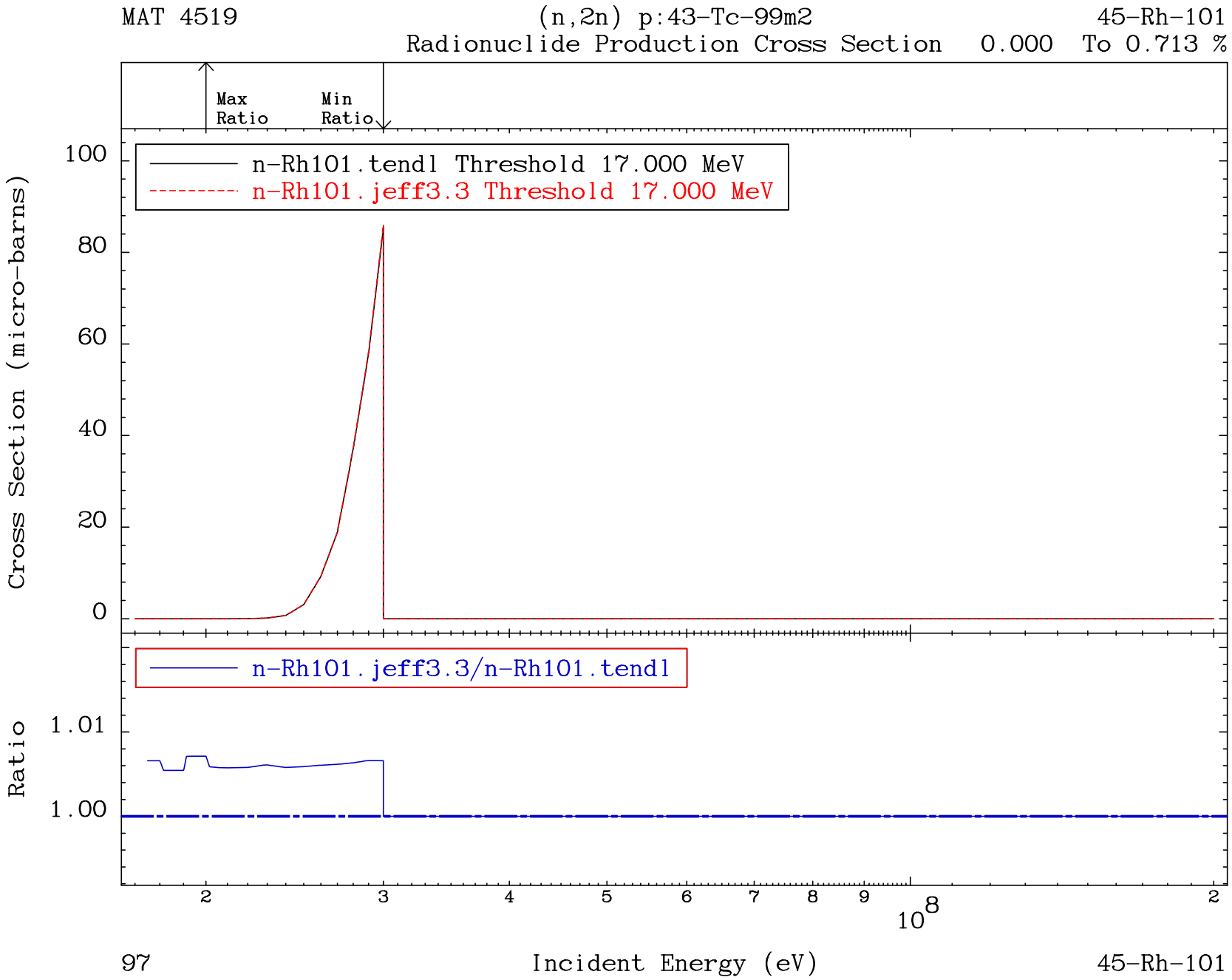

MAT 4519
(n,n') 2α:41-Nb-93g
45-Rh-101
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 5.0999 MeV
n-Rh101.jeff3.3 Threshold 5.0981 MeV
Cross Section (micro-barns)
20
15
10
5
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
10^3
10^2
10^1
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
92
Incident Energy (eV)
45-Rh-101

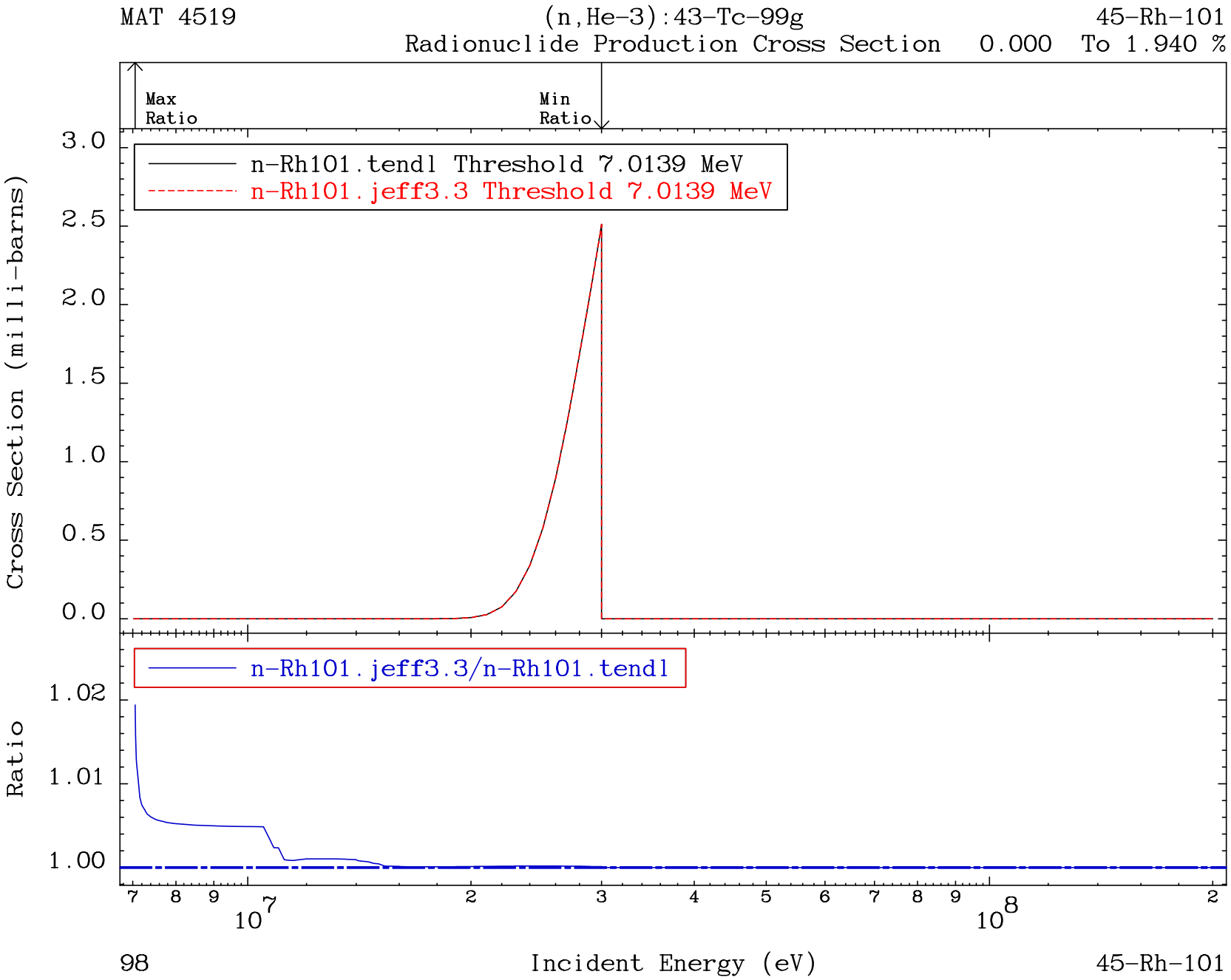

MAT 4519
(n,n') 2α:41-Nb-93m1
45-Rh-101
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 5.1310 MeV
n-Rh101.jeff3.3 Threshold 5.1292 MeV
Cross Section (micro-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
10^3
10^2
10^1
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
93
Incident Energy (eV)
45-Rh-101

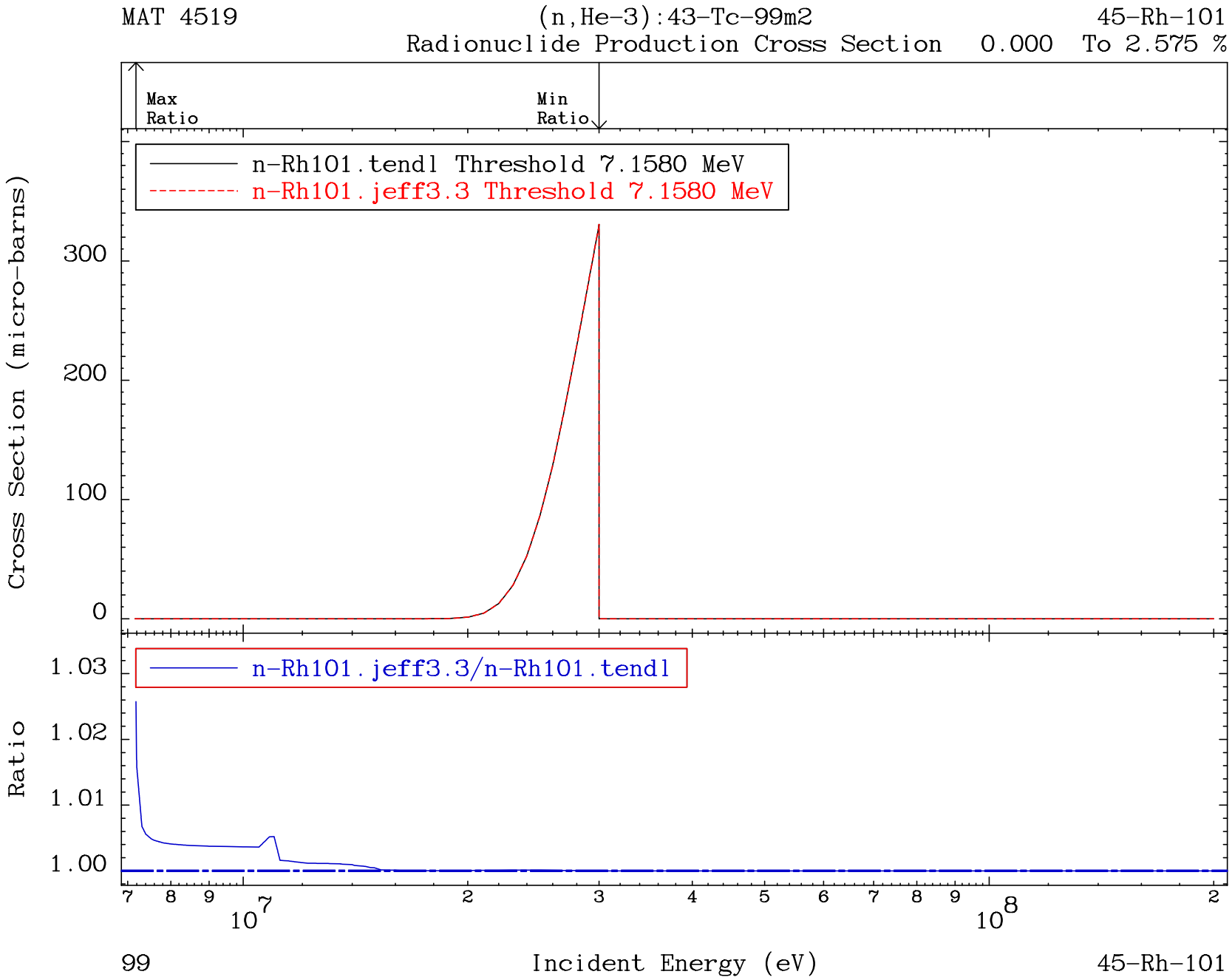

MAT 4519
(n,4n):45-Rh-98g
45-Rh-101
Radionuclide Production Cross Section 0.000 To 2.131 %
Min
Ratio
n-Rh101.tendl Threshold 28.736 MeV
n-Rh101.jeff3.3 Threshold 28.736 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.00
1.01
1.02
40
60
80
100
120
140
160
180
200
94
Incident Energy (MeV)
45-Rh-101

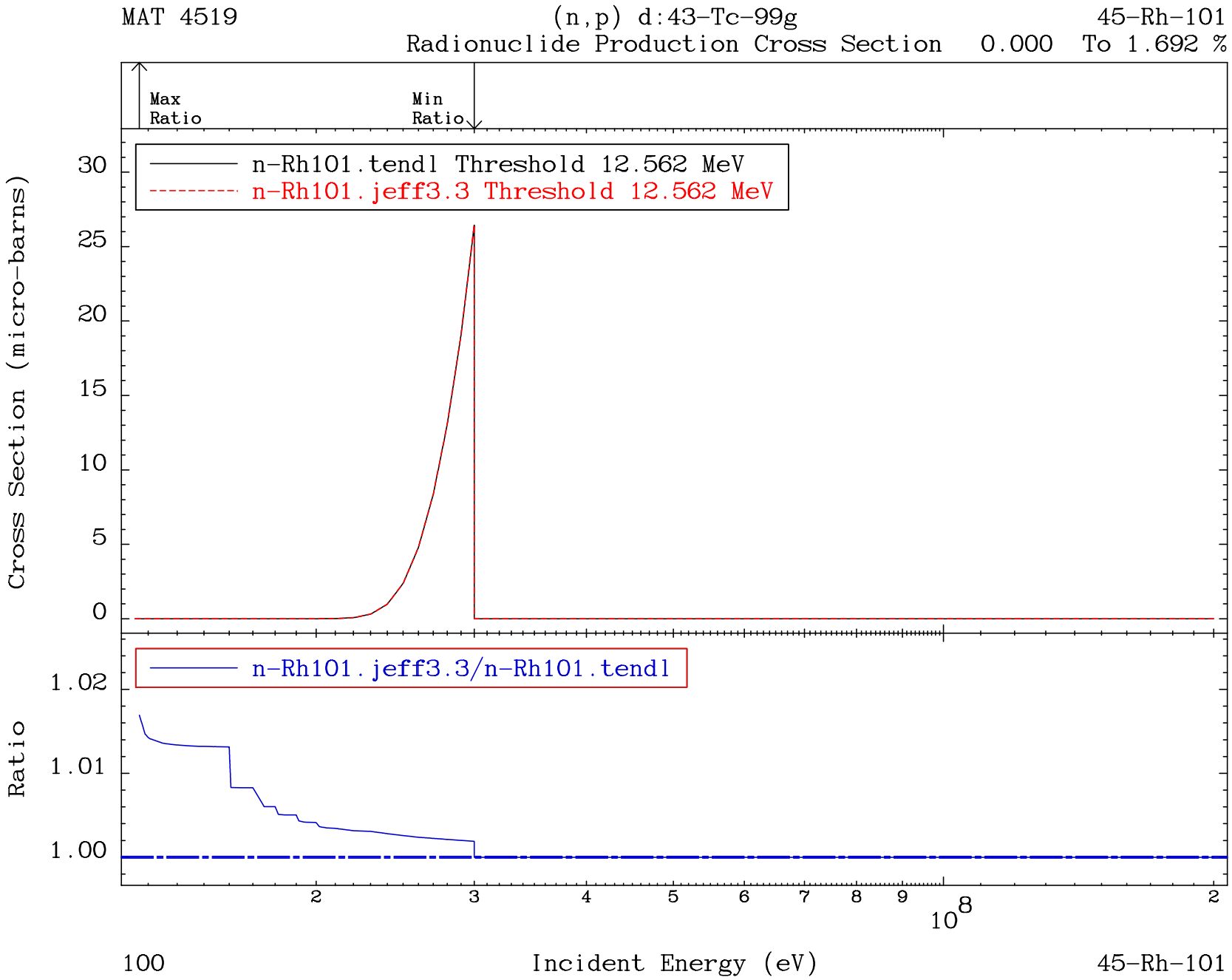

MAT 4519
(n,4n):45-Rh-98m3
45-Rh-101
Radionuclide Production Cross Section 0.000 To 2.191 %
Min
Ratio
n-Rh101.tendl Threshold 28.897 MeV
n-Rh101.jeff3.3 Threshold 28.897 MeV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.02
1.01
1.00
40
60
80
100
120
140
160
180
200
95
Incident Energy (MeV)
45-Rh-101

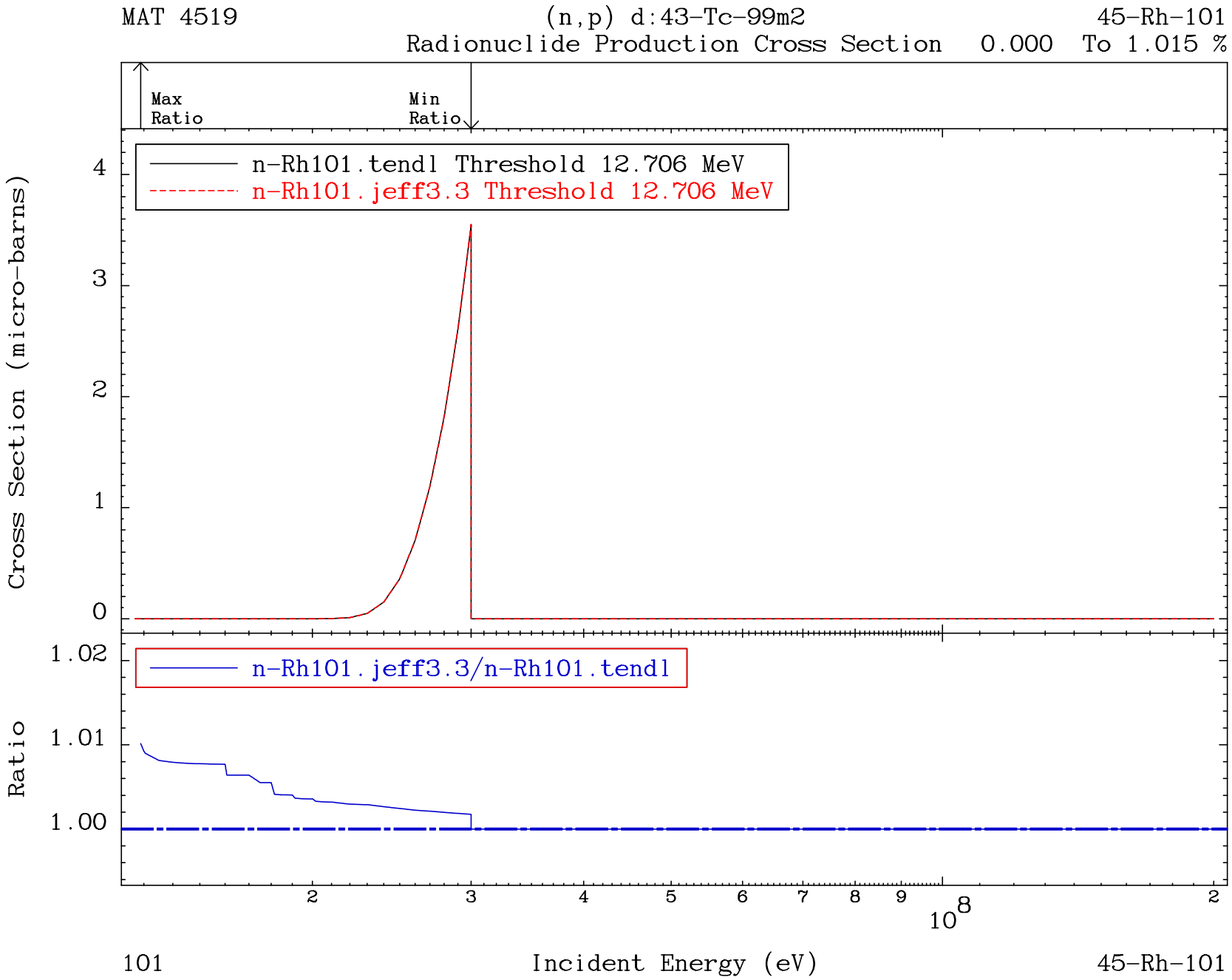

MAT 4519
(n,2n) p:43-Tc-99g
45-Rh-101
Radionuclide Production Cross Section 0.000 To 1.880 %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 14.809 MeV
n-Rh101.jeff3.3 Threshold 14.809 MeV
Cross Section (micro-barns)
600
400
200
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
96
Incident Energy (eV)
45-Rh-101


MAT 4519
(n,2n) p:43-Tc-99m2
45-Rh-101
Radionuclide Production Cross Section 0.000 To 0.713 %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 17.000 MeV
n-Rh101.jeff3.3 Threshold 17.000 MeV
Cross Section (micro-barns)
100
80
60
40
20
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
97
Incident Energy (eV)
45-Rh-101


MAT 4519
(n,He-3):43-Tc-99g
45-Rh-101
Radionuclide Production Cross Section 0.000 To 1.940 %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 7.0139 MeV
n-Rh101.jeff3.3 Threshold 7.0139 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.02
1.01
1.00
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
98
Incident Energy (eV)
45-Rh-101


MAT 4519
(n,He-3):43-Tc-99m2
45-Rh-101
Radionuclide Production Cross Section 0.000 To 2.575 %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 7.1580 MeV
n-Rh101.jeff3.3 Threshold 7.1580 MeV
Cross Section (micro-barns)
300
200
100
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.03
1.02
1.01
1.00
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
99
Incident Energy (eV)
45-Rh-101


MAT 4519
(n,p) d:43-Tc-99g
45-Rh-101
Radionuclide Production Cross Section 0.000 To 1.692 %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 12.562 MeV
n-Rh101.jeff3.3 Threshold 12.562 MeV
Cross Section (micro-barns)
30
25
20
15
10
5
0
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
100
Incident Energy (eV)
45-Rh-101


MAT 4519
(n,p) d:43-Tc-99m2
45-Rh-101
Radionuclide Production Cross Section 0.000 To 1.015 %
Max Ratio
Min Ratio
n-Rh101.tendl Threshold 12.706 MeV
n-Rh101.jeff3.3 Threshold 12.706 MeV
Cross Section (micro-barns)
0
1
2
3
4
n-Rh101.jeff3.3/n-Rh101.tendl
Ratio
1.00
1.01
1.02
2
3
4
5
6
7
8
9
10^8
2
101
Incident Energy (eV)
45-Rh-101