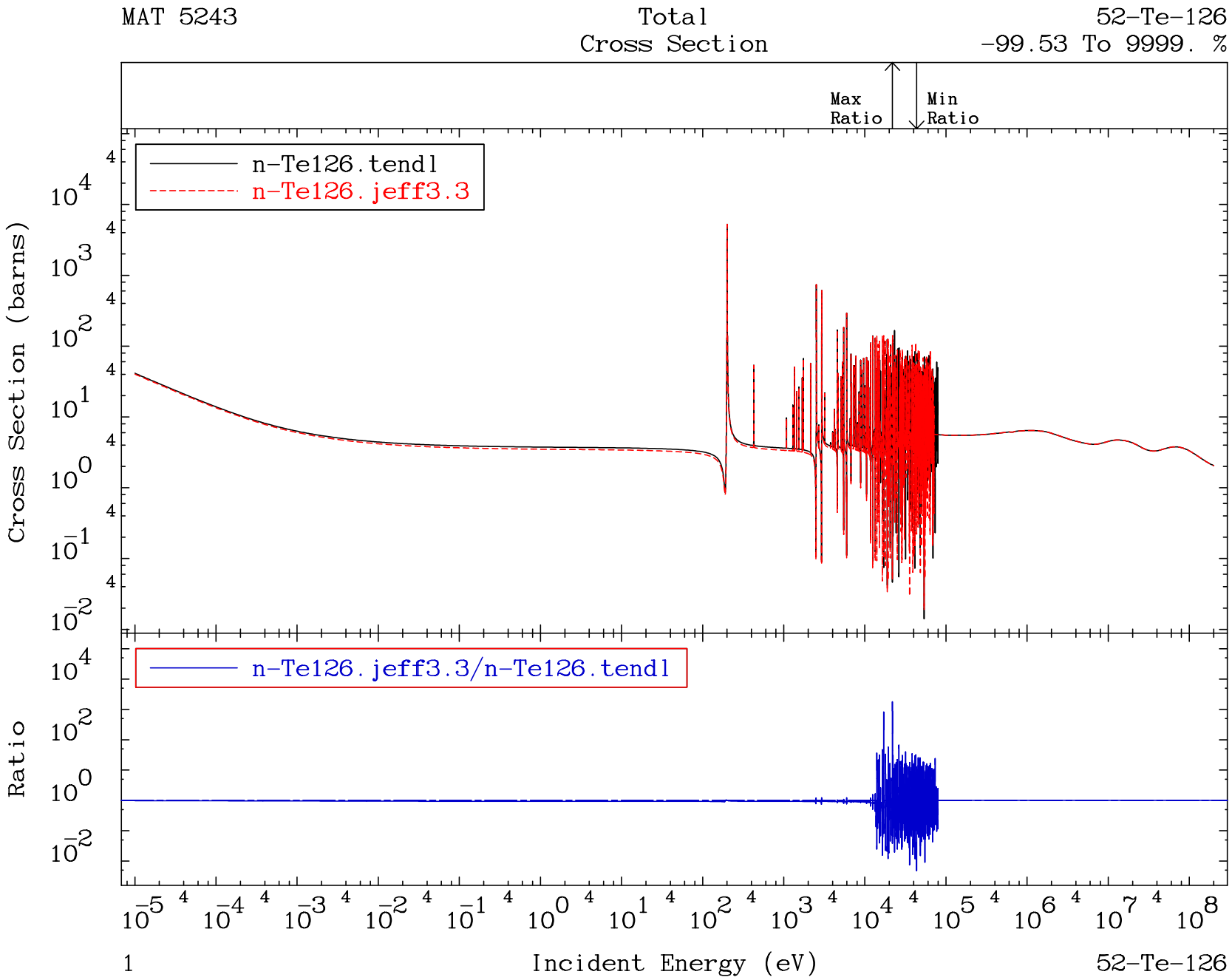
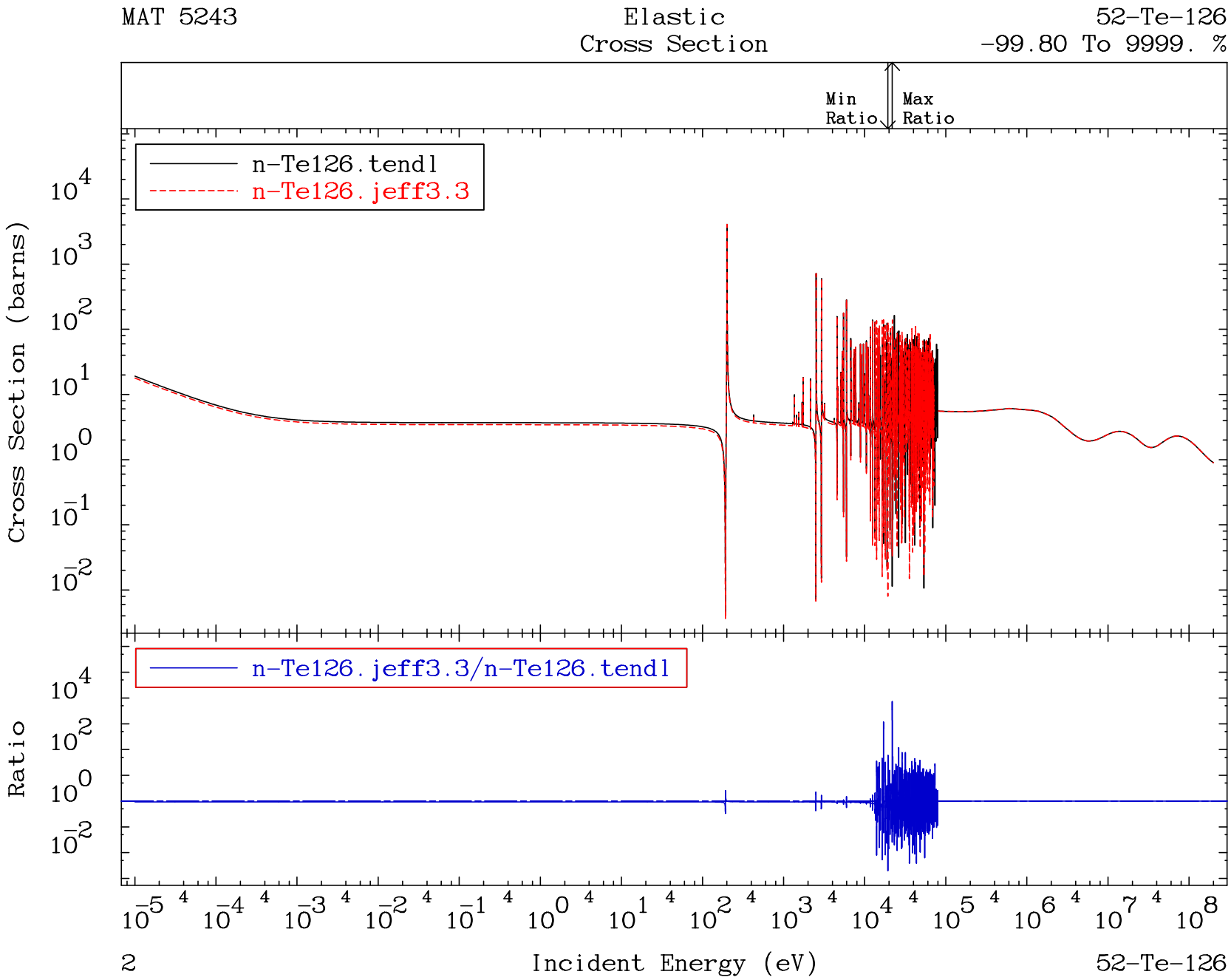
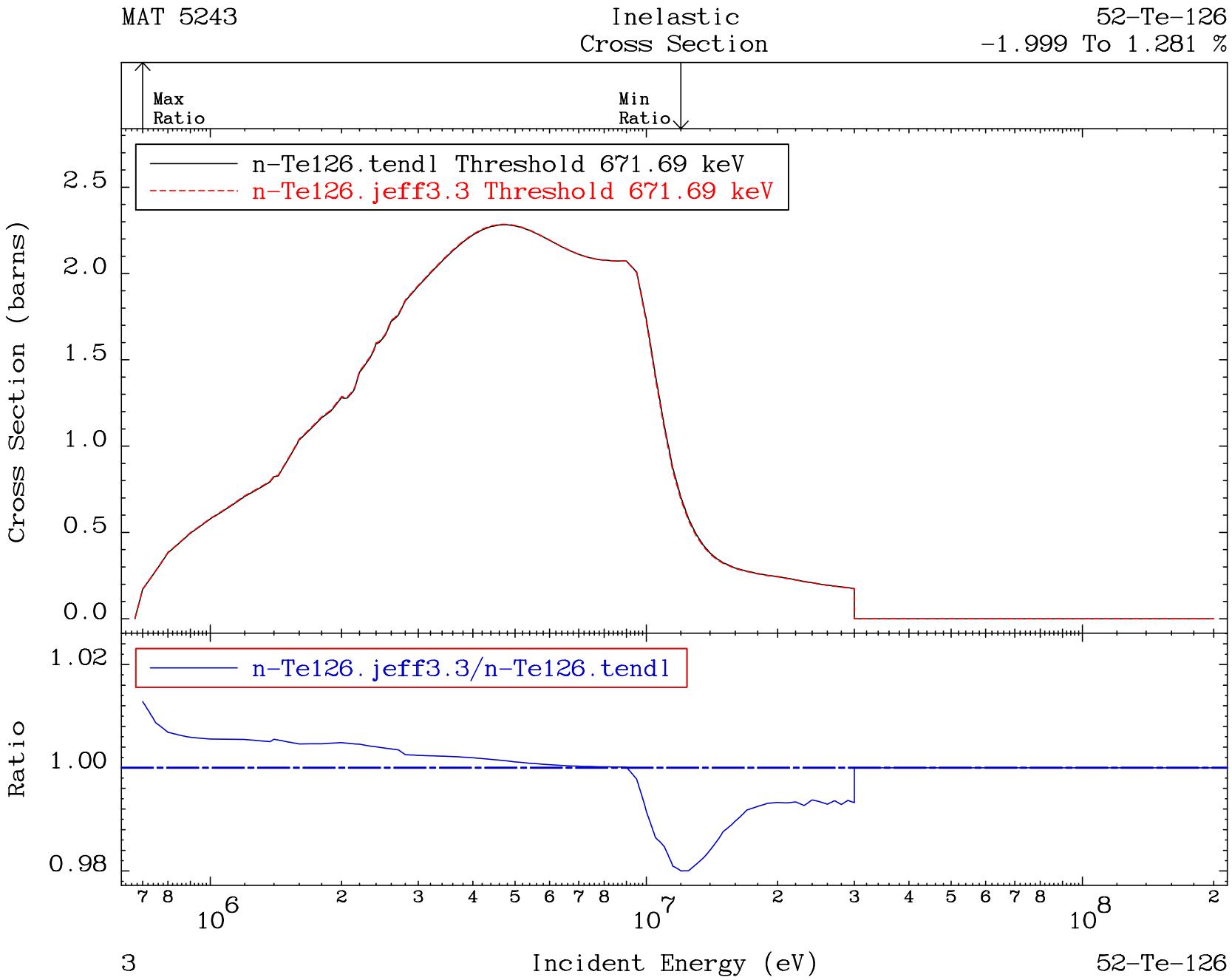
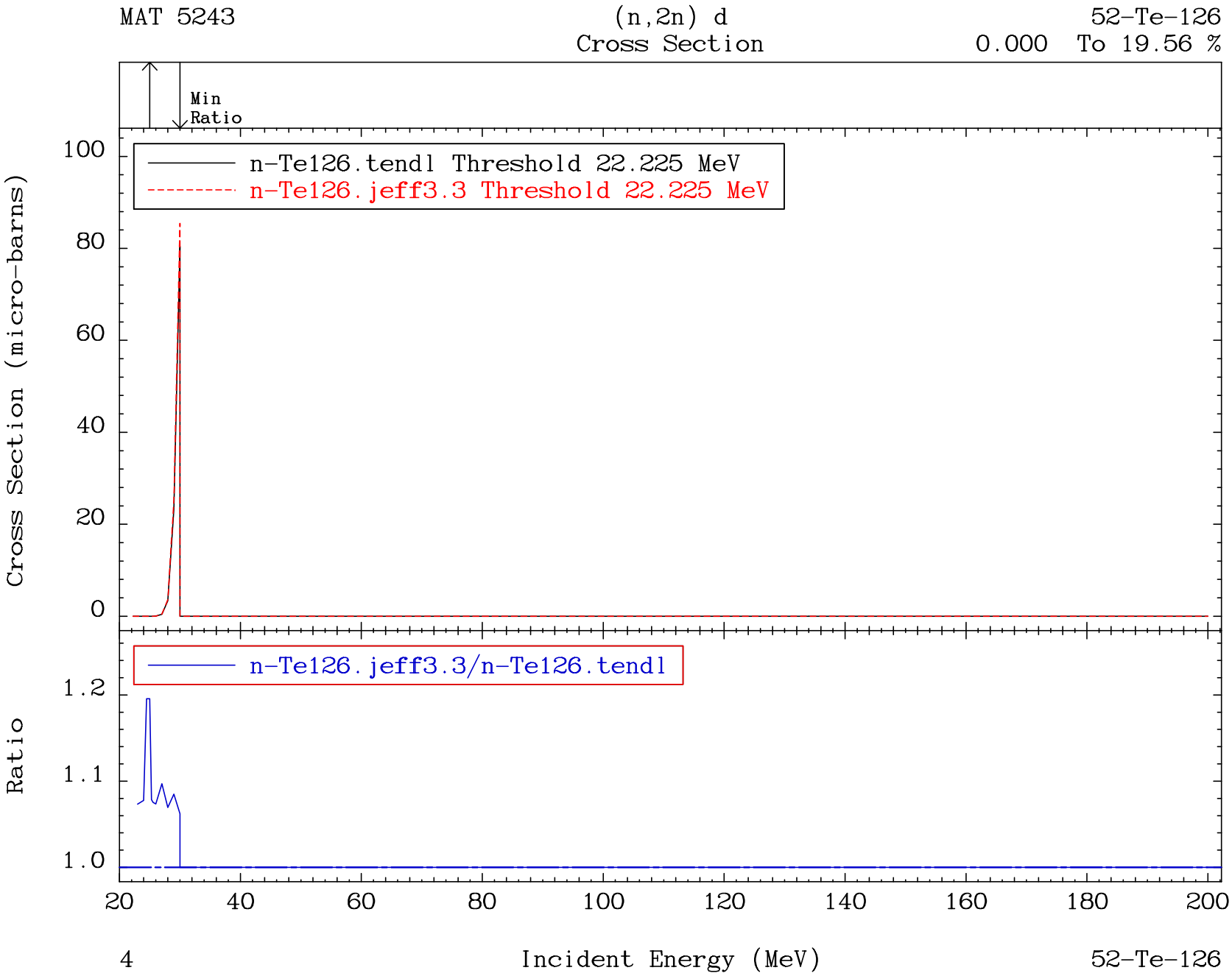
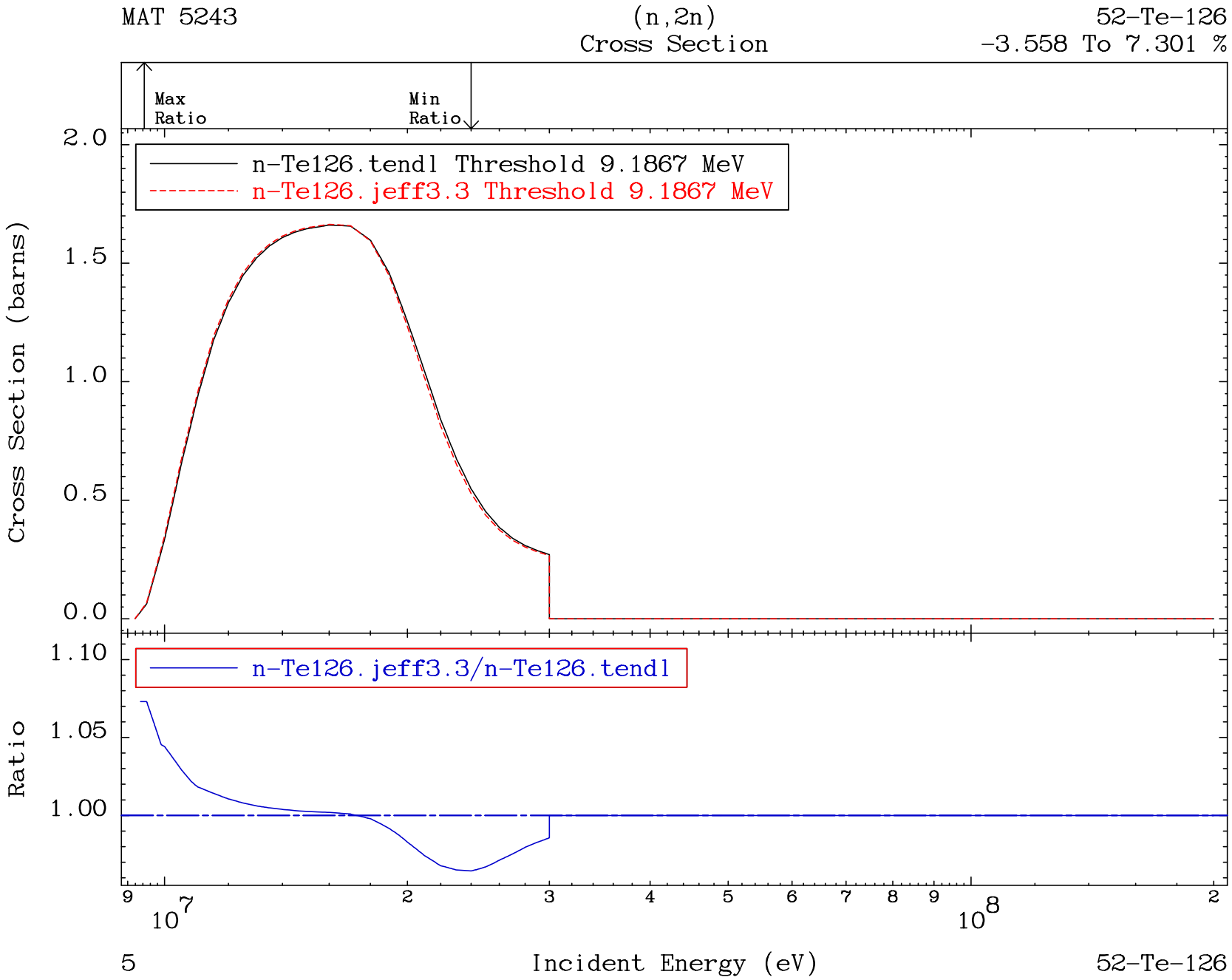
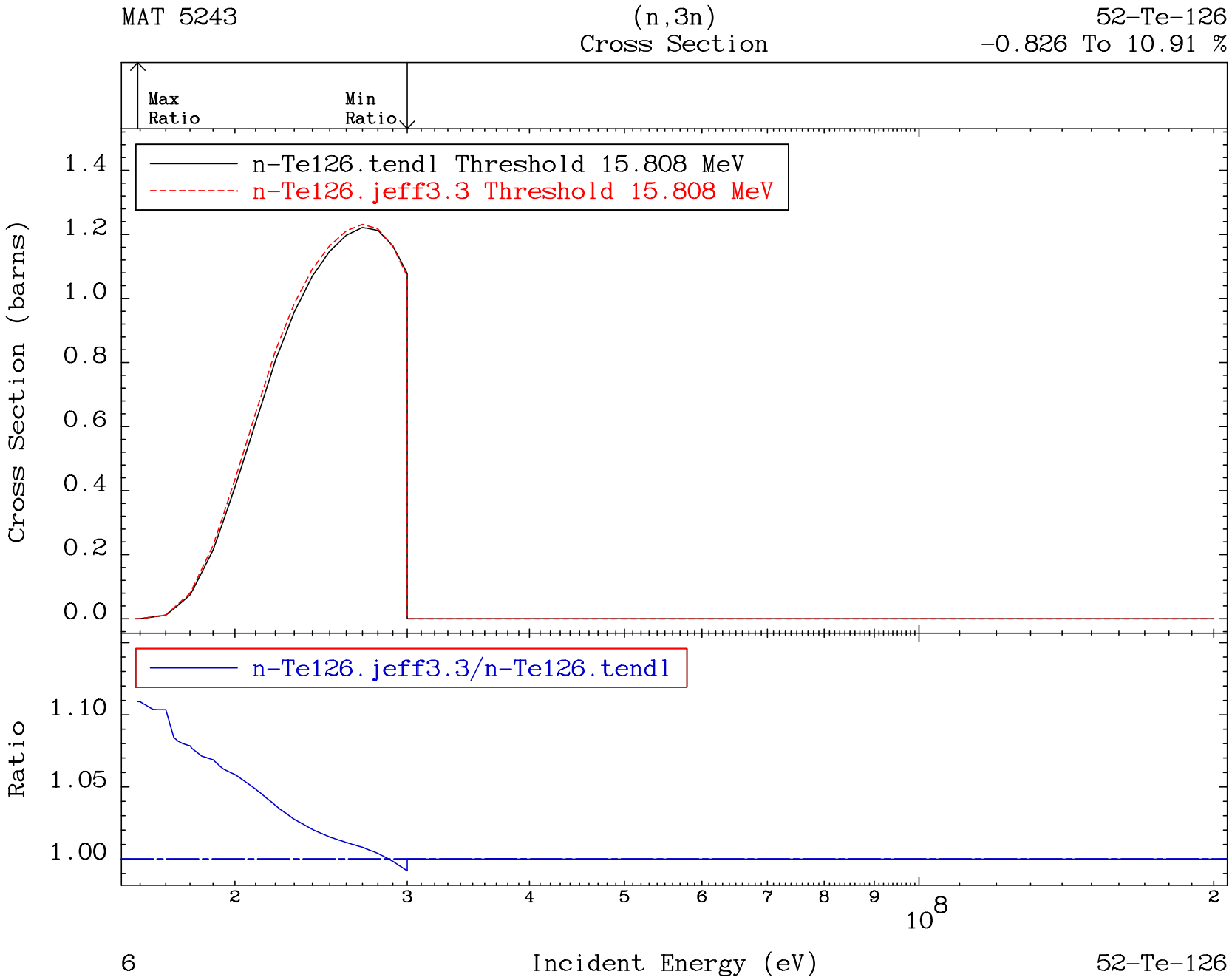

MAT 5243
Total
Cross Section
52-Te-126
-99.53 To 9999. %
Max
Ratio
Min
Ratio
n-Te126.tendl
n-Te126.jeff3.3
Cross Section (barns)
n-Te126.jeff3.3/n-Te126.tendl
Ratio
Incident Energy (eV)
1
52-Te-126

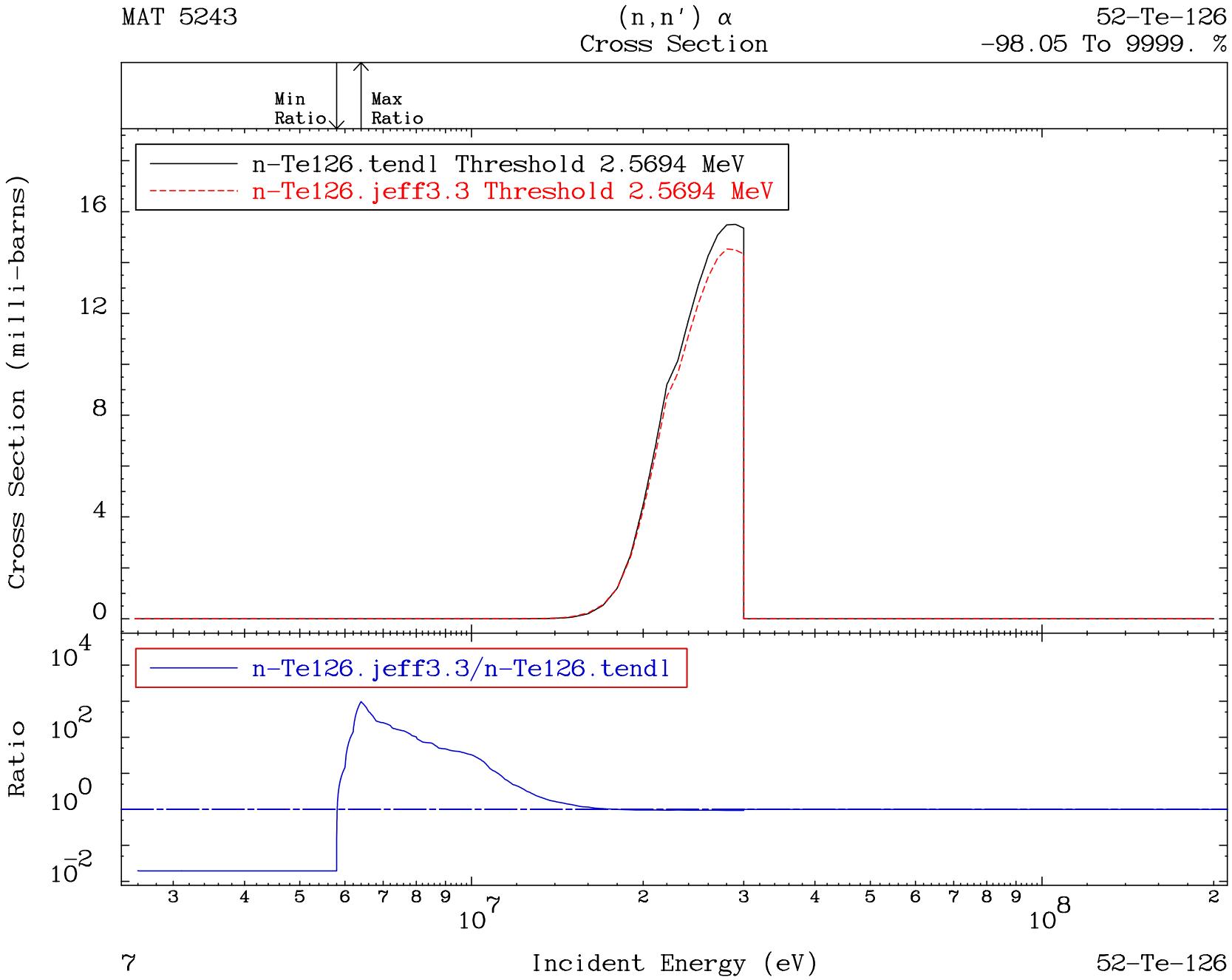

MAT 5243
Elastic
Cross Section
52-Te-126
-99.80 To 9999. %
Min Ratio
Max Ratio
n-Te126.tendl
n-Te126.jeff3.3
Cross Section (barns)
n-Te126.jeff3.3/n-Te126.tendl
Ratio
Incident Energy (eV)
2
52-Te-126

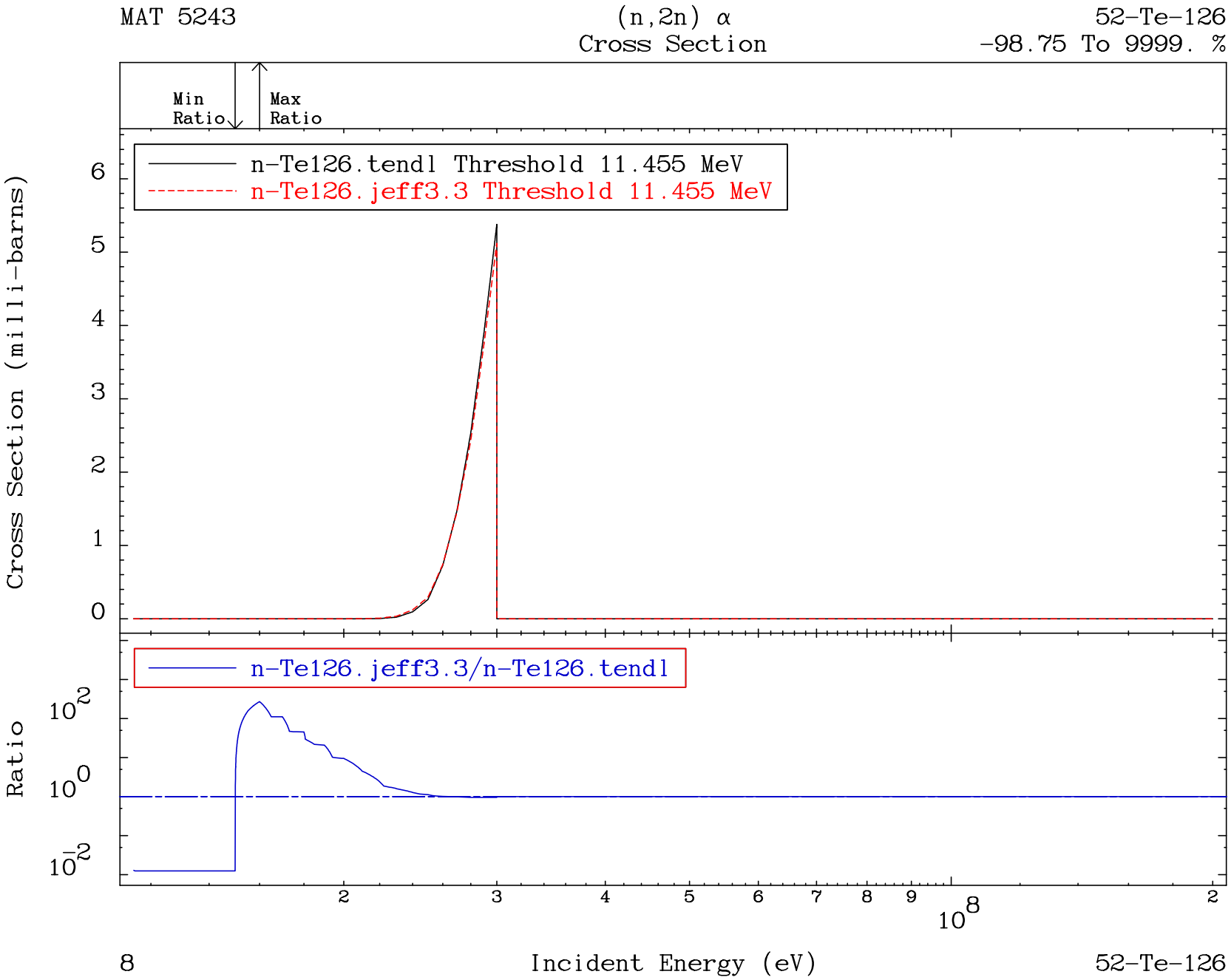

MAT 5243
Inelastic
Cross Section
52-Te-126
-1.999 To 1.281 %
Max
Ratio
Min
Ratio
n-Te126.tendl Threshold 671.69 keV
n-Te126.jeff3.3 Threshold 671.69 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.02
1.00
0.98
7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
52-Te-126

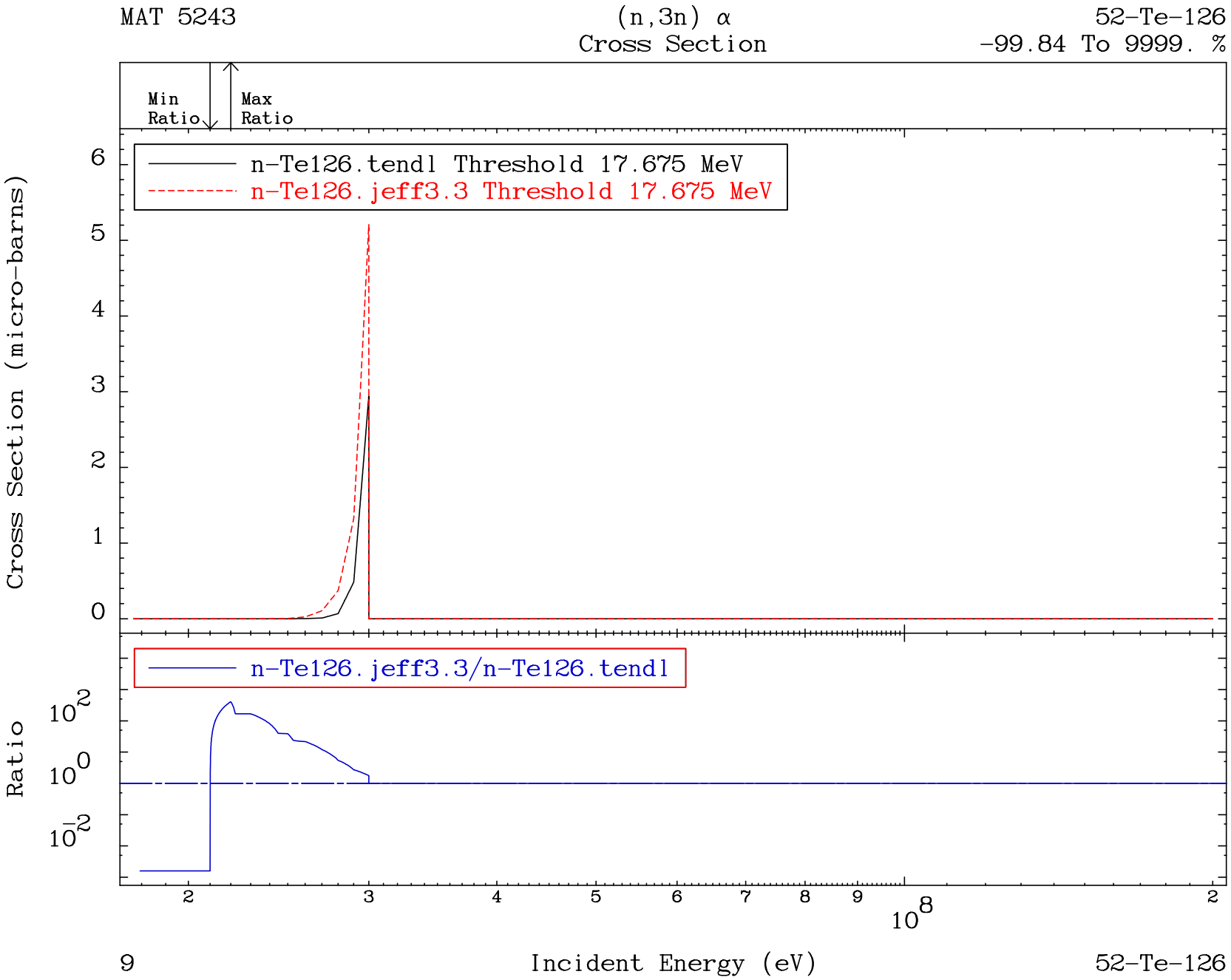

MAT 5243
(n,2n) d
Cross Section
52-Te-126
0.000 To 19.56 %
Min
Ratio
n-Te126.tendl Threshold 22.225 MeV
n-Te126.jeff3.3 Threshold 22.225 MeV
Cross Section (micro-barns)
100
80
60
40
20
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.2
1.1
1.0
20
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
52-Te-126

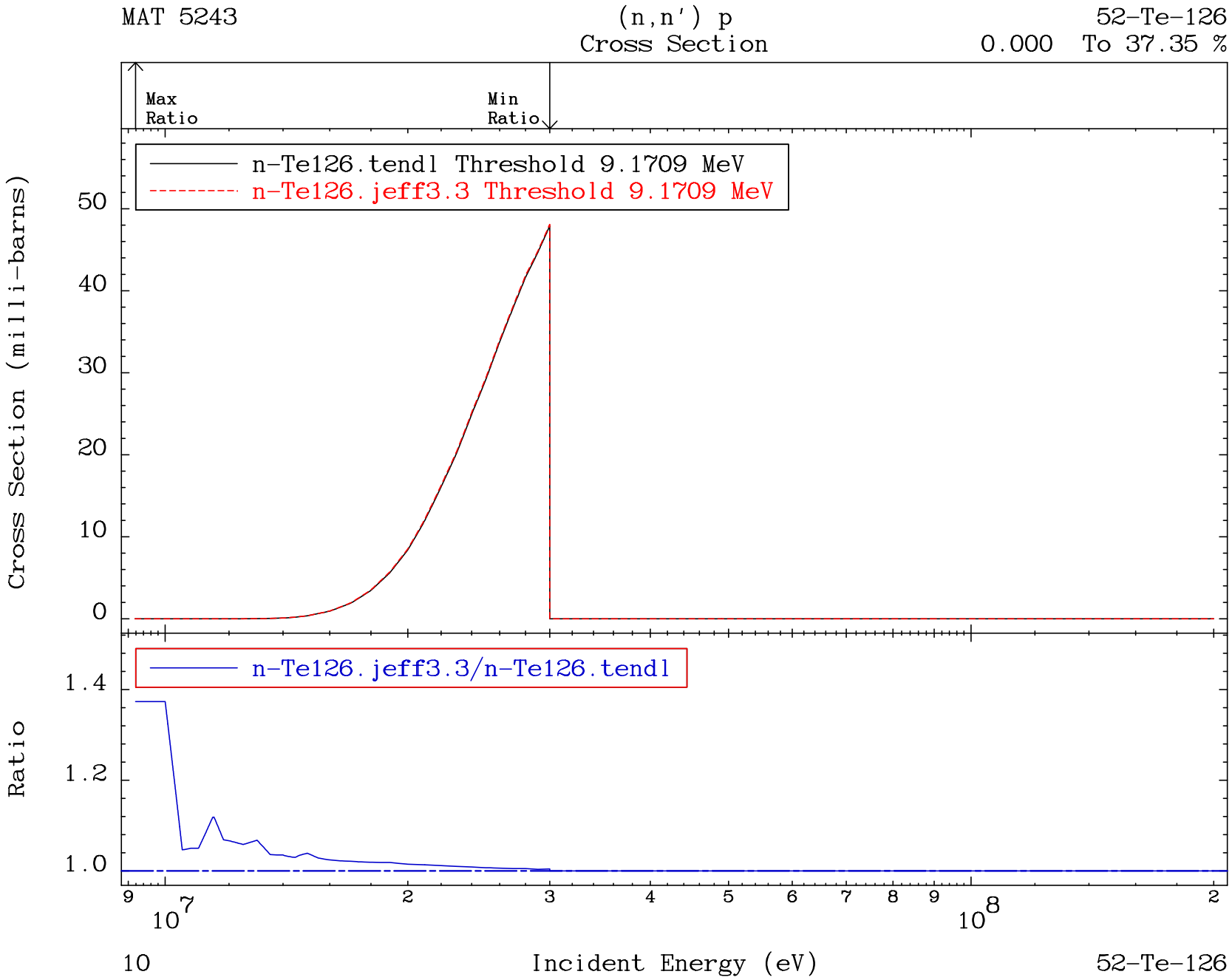

MAT 5243
(n,2n)
Cross Section
52-Te-126
-3.558 To 7.301 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 9.1867 MeV
n-Te126.jeff3.3 Threshold 9.1867 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.10
1.05
1.00
9
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
52-Te-126

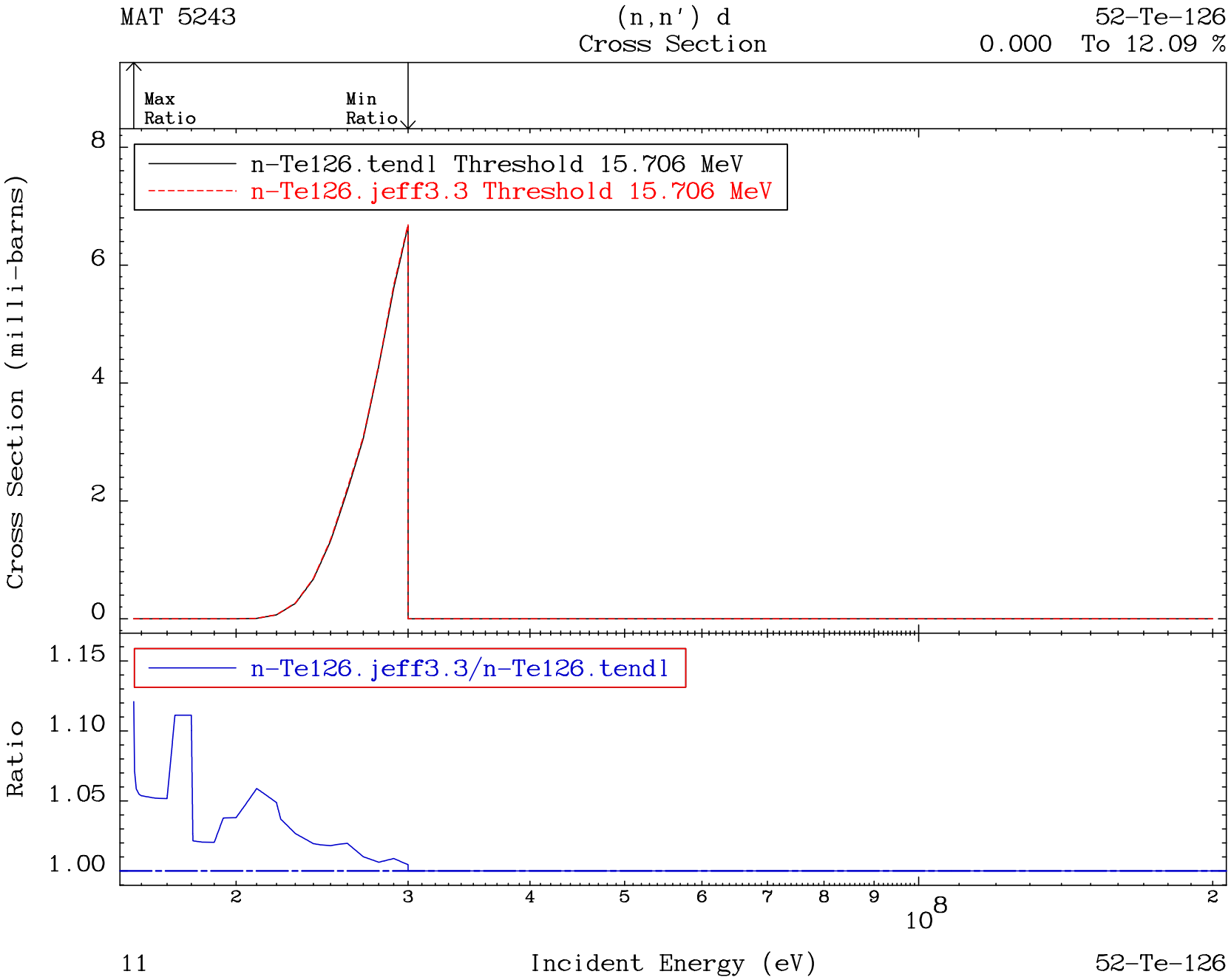

MAT 5243
(n,3n)
Cross Section
52-Te-126
-0.826 To 10.91 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 15.808 MeV
n-Te126.jeff3.3 Threshold 15.808 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
52-Te-126

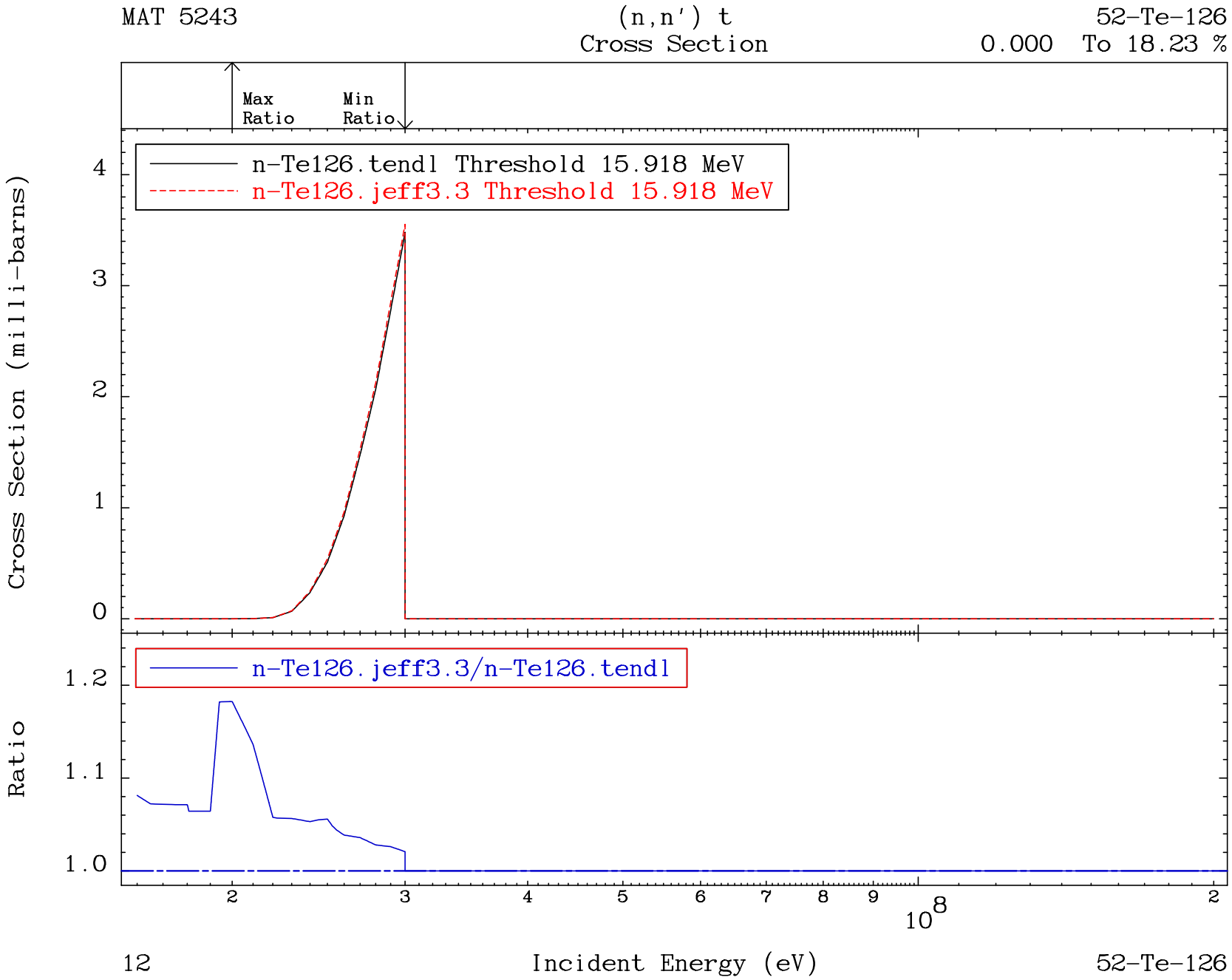

MAT 5243
(n,n') α
Cross Section
52-Te-126
-98.05 To 9999. %
Min Ratio
Max Ratio
n-Te126.tendl Threshold 2.5694 MeV
n-Te126.jeff3.3 Threshold 2.5694 MeV
Cross Section (milli-barns)
16
12
8
4
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
10^4
10^2
10^0
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
52-Te-126

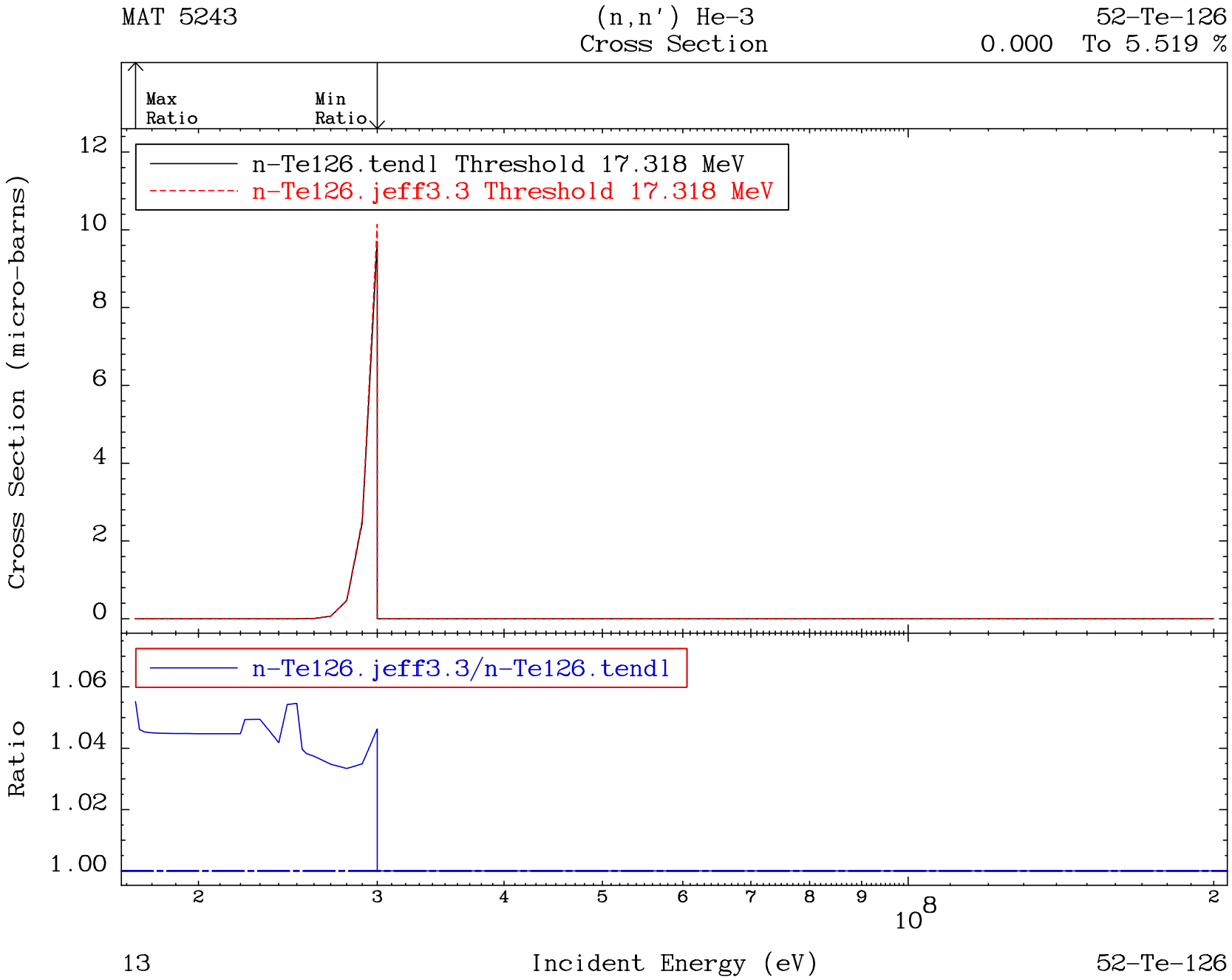

MAT 5243
(n,2n) α
Cross Section
52-Te-126
-98.75 To 9999. %
Min Ratio
Max Ratio
n-Te126.tendl Threshold 11.455 MeV
n-Te126.jeff3.3 Threshold 11.455 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
n-Te126.jeff3.3/n-Te126.tendl
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
52-Te-126

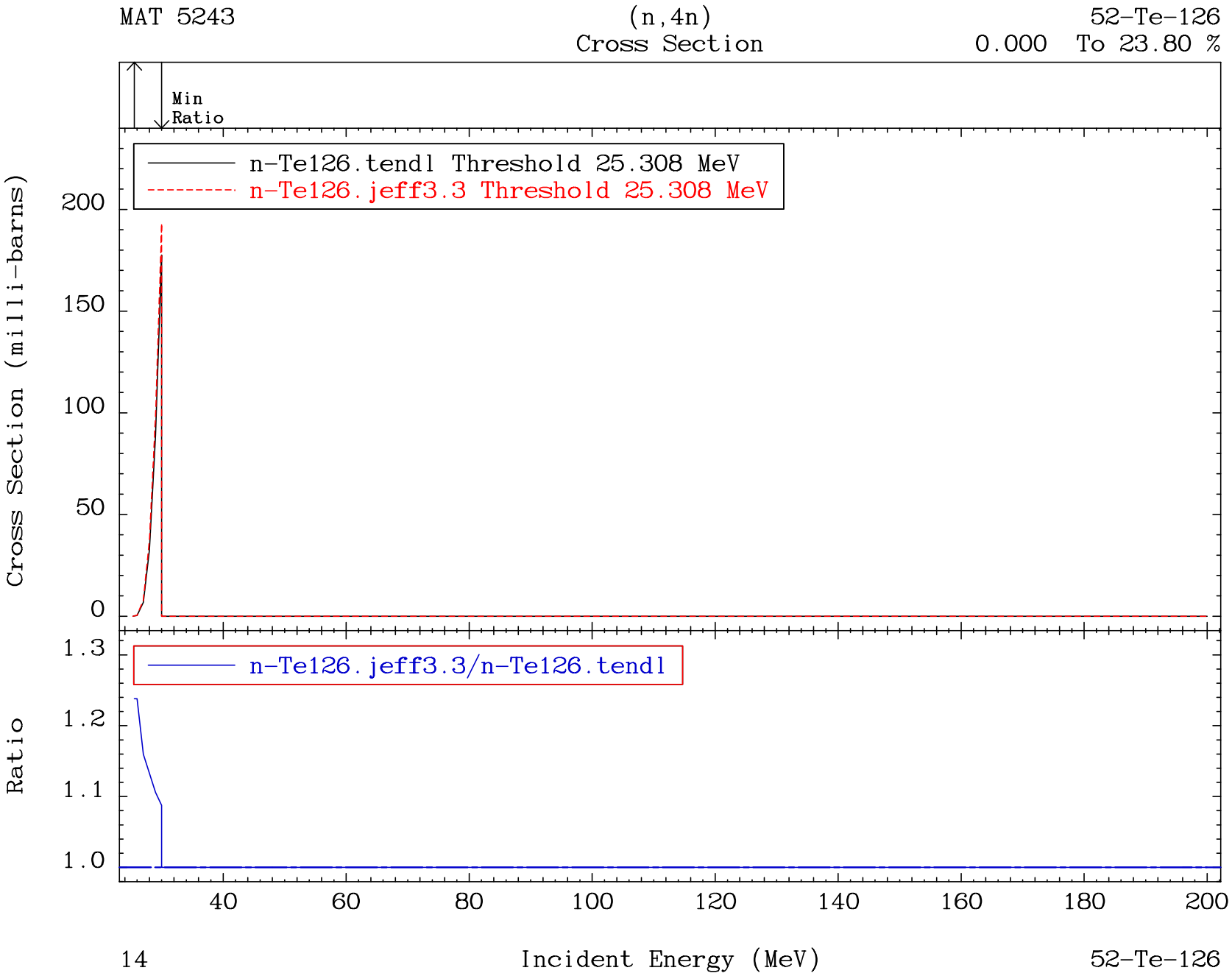

MAT 5243
(n,3n) α
Cross Section
52-Te-126
-99.84 To 9999. %
Min Ratio
Max Ratio
n-Te126.tendl Threshold 17.675 MeV
n-Te126.jeff3.3 Threshold 17.675 MeV
Cross Section (micro-barns)
0
1
2
3
4
5
6
n-Te126.jeff3.3/n-Te126.tendl
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
52-Te-126

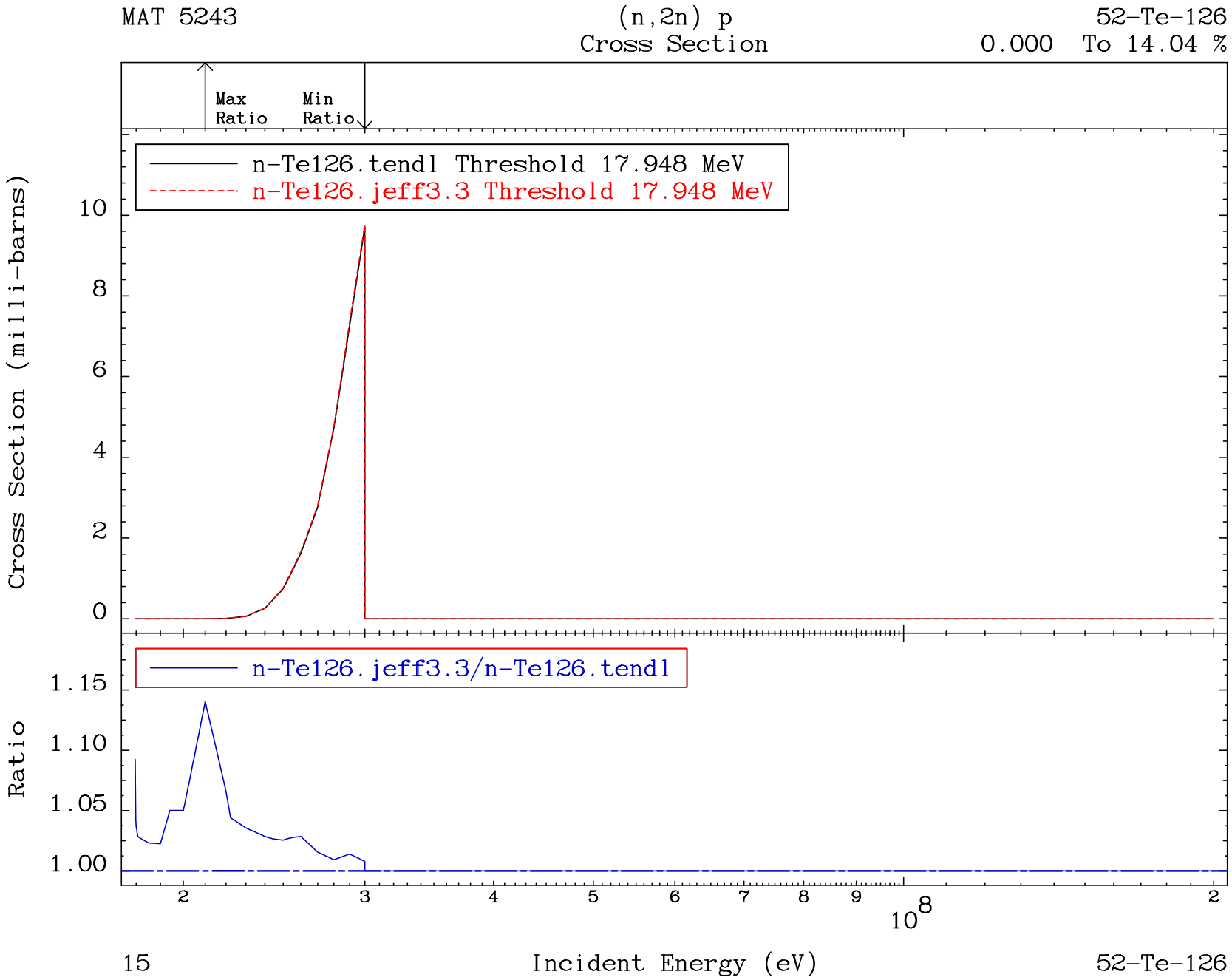

MAT 5243
(n,n') p
Cross Section
52-Te-126
0.000 To 37.35 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 9.1709 MeV
n-Te126.jeff3.3 Threshold 9.1709 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.4
1.2
1.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
52-Te-126

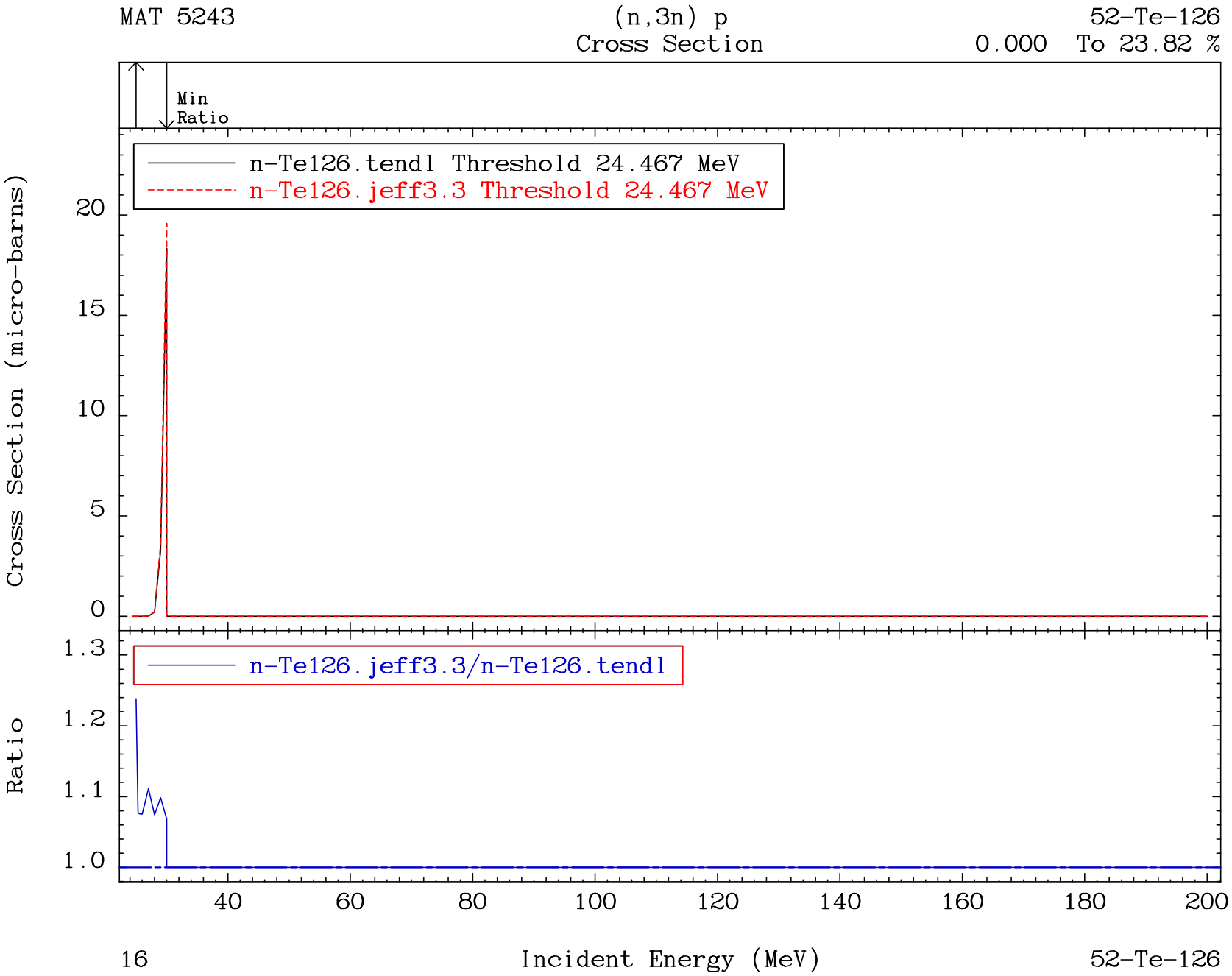

MAT 5243
(n,n') d
Cross Section
52-Te-126
0.000 To 12.09 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 15.706 MeV
n-Te126.jeff3.3 Threshold 15.706 MeV
Cross Section (milli-barns)
8
6
4
2
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.15
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
52-Te-126

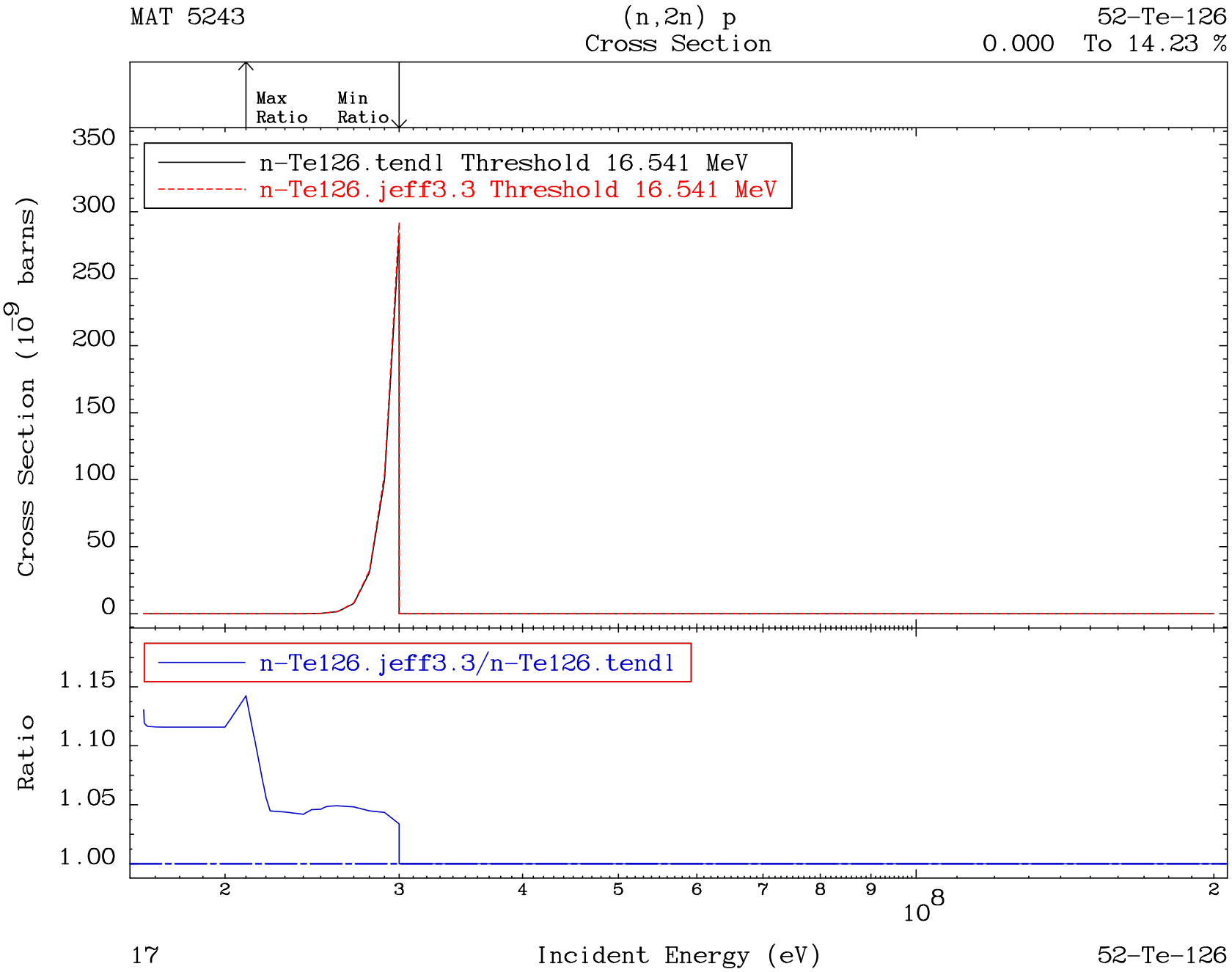

MAT 5243
(n,n') t
Cross Section
52-Te-126
0.000 To 18.23 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 15.918 MeV
n-Te126.jeff3.3 Threshold 15.918 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.0
1.1
1.2
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
52-Te-126

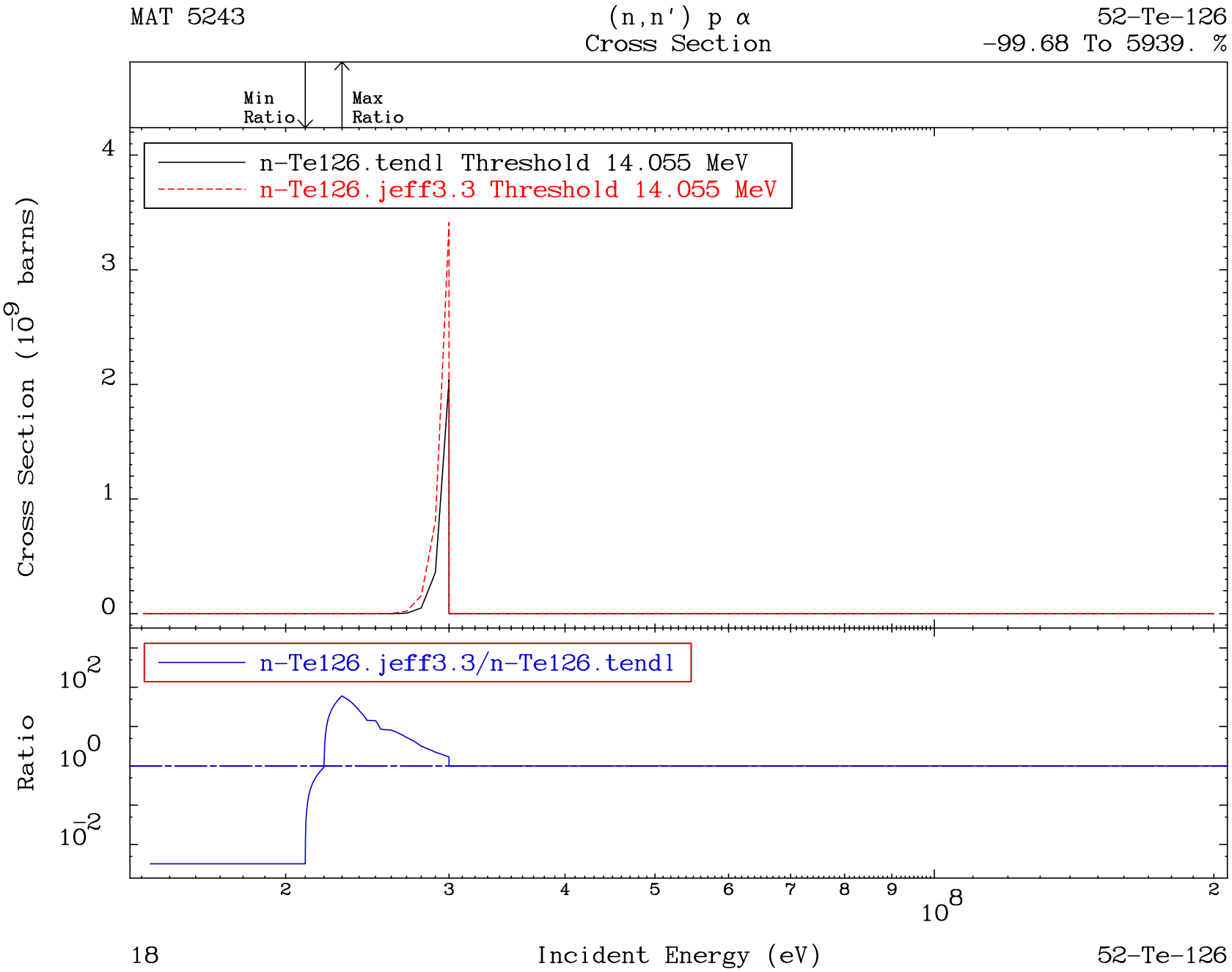

MAT 5243
(n,n') He-3
Cross Section
52-Te-126
0.000 To 5.519 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 17.318 MeV
n-Te126.jeff3.3 Threshold 17.318 MeV
Cross Section (micro-barns)
0
2
4
6
8
10
12
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.00
1.02
1.04
1.06
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
52-Te-126

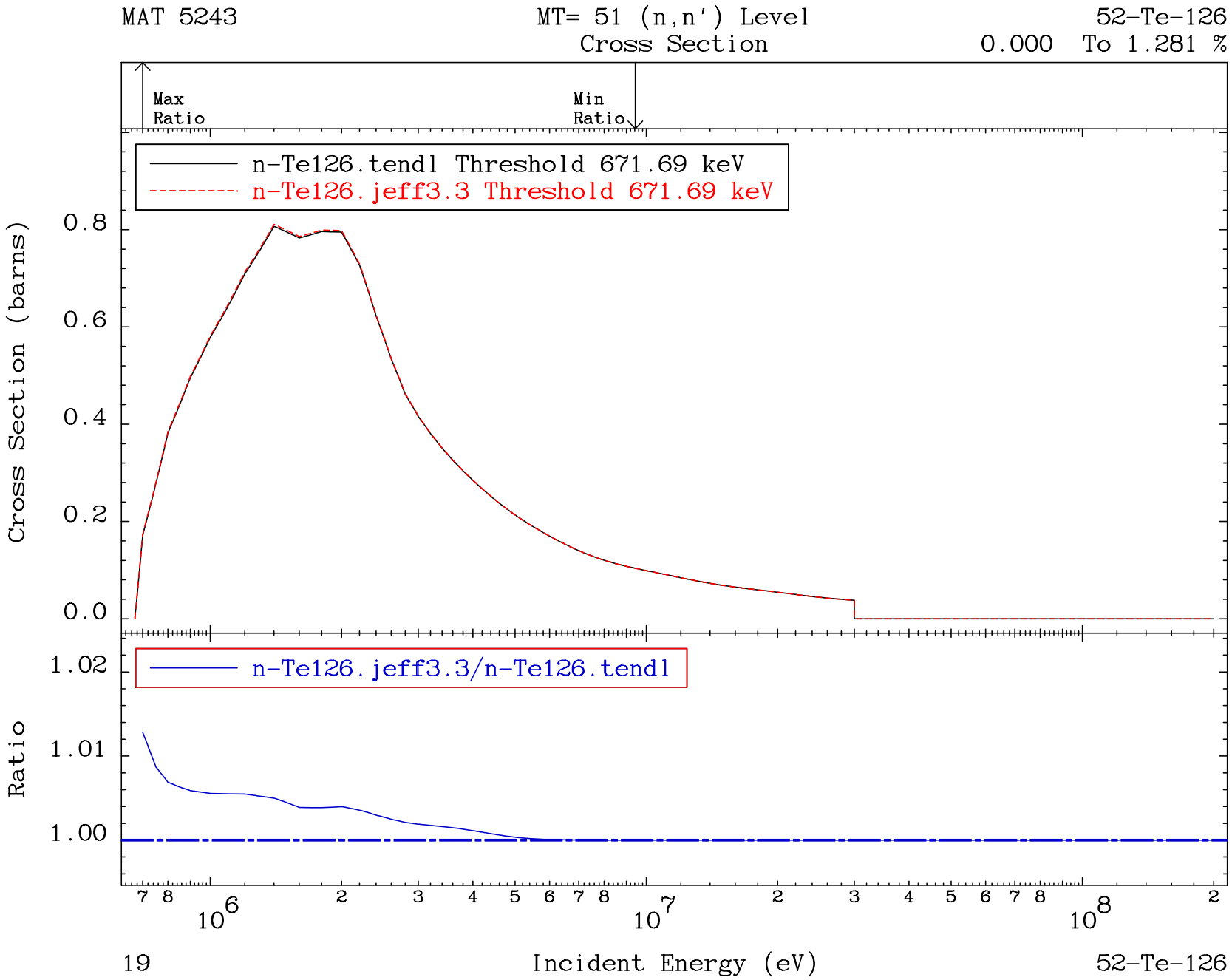

MAT 5243
(n,4n)
Cross Section
52-Te-126
0.000 To 23.80 %
Min
Ratio
n-Te126.tendl Threshold 25.308 MeV
n-Te126.jeff3.3 Threshold 25.308 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.3
1.2
1.1
1.0
40
60
80
100
120
140
160
180
200
14
Incident Energy (MeV)
52-Te-126

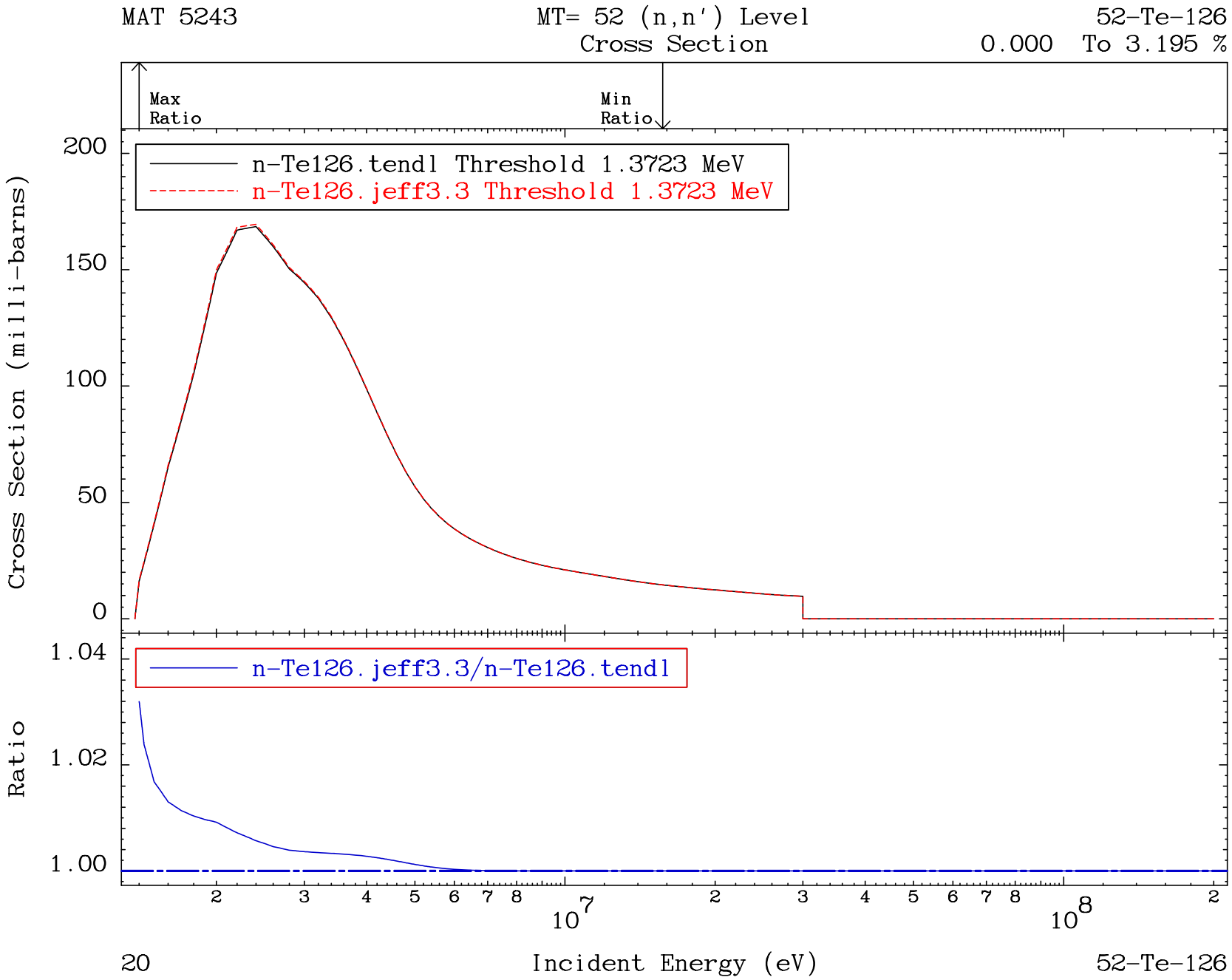

MAT 5243
(n,2n) p
Cross Section
52-Te-126
0.000 To 14.04 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 17.948 MeV
n-Te126.jeff3.3 Threshold 17.948 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.15
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
52-Te-126

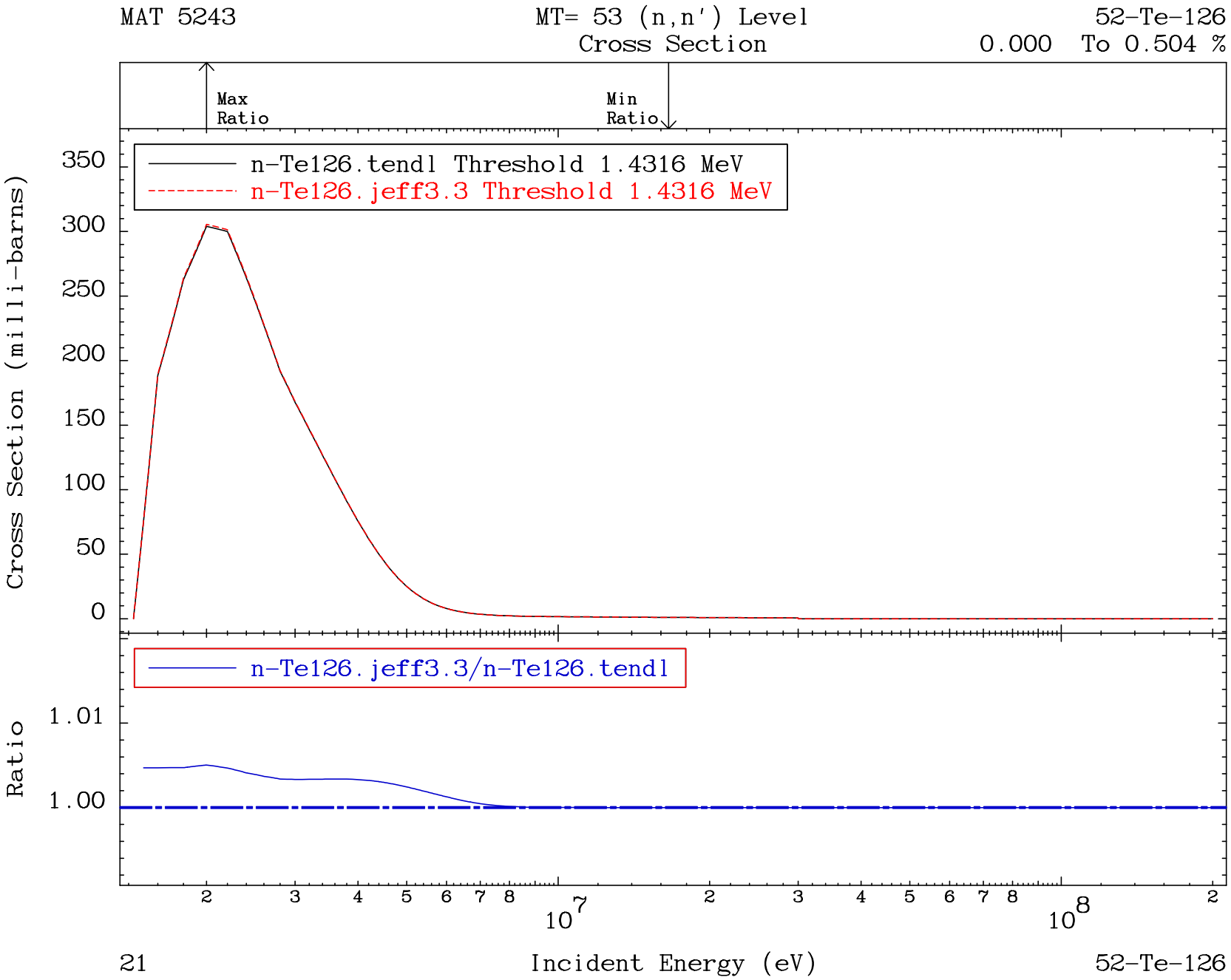

MAT 5243
(n,3n) p
Cross Section
52-Te-126
0.000 To 23.82 %
Min
Ratio
n-Te126.tendl Threshold 24.467 MeV
n-Te126.jeff3.3 Threshold 24.467 MeV
Cross Section (micro-barns)
20
15
10
5
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.3
1.2
1.1
1.0
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
52-Te-126

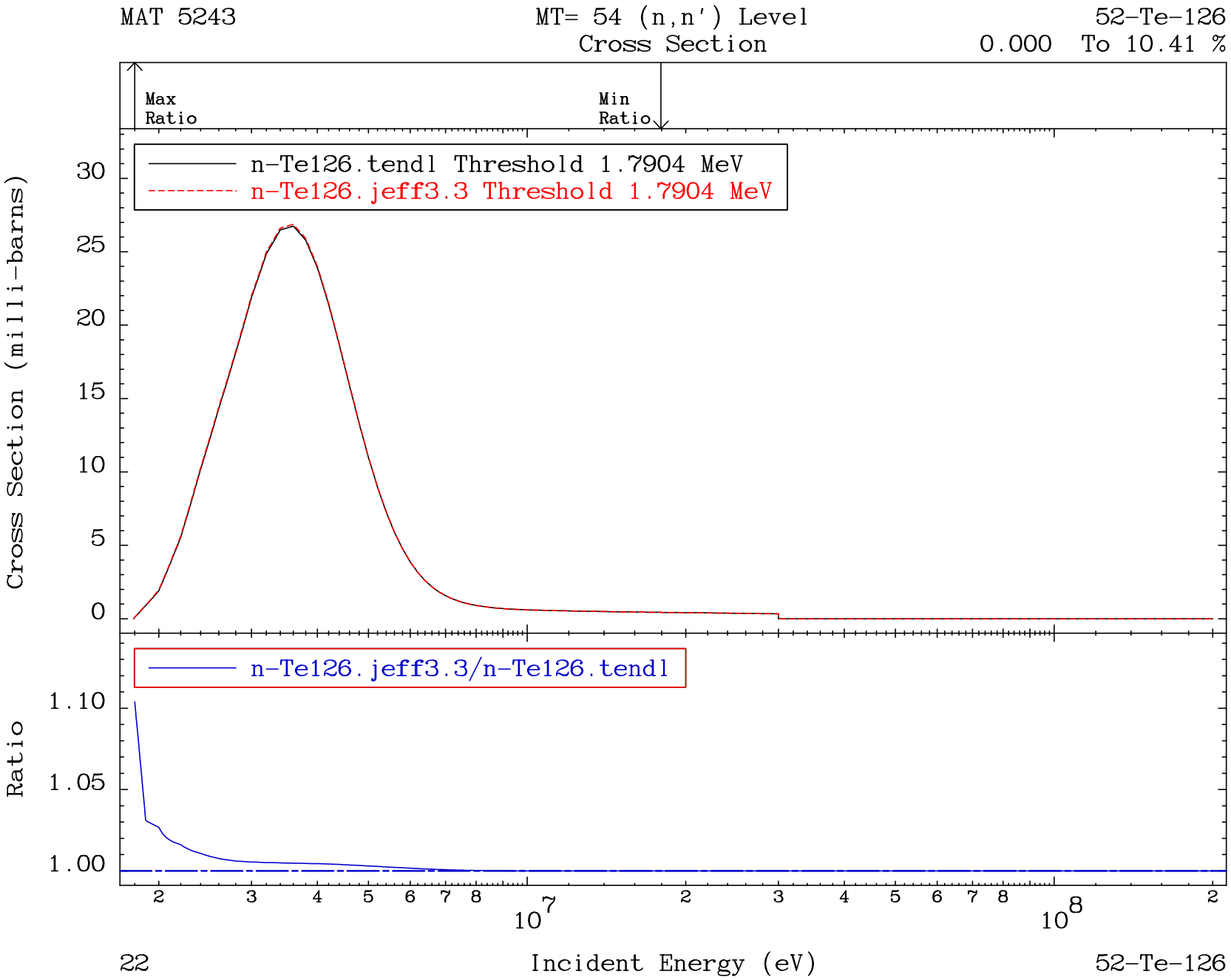

MAT 5243
(n,2n) p
Cross Section
52-Te-126
0.000 To 14.23 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 16.541 MeV
n-Te126.jeff3.3 Threshold 16.541 MeV
Cross Section (10^{-9} barns)
350
300
250
200
150
100
50
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.15
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
17
Incident Energy (eV)
52-Te-126

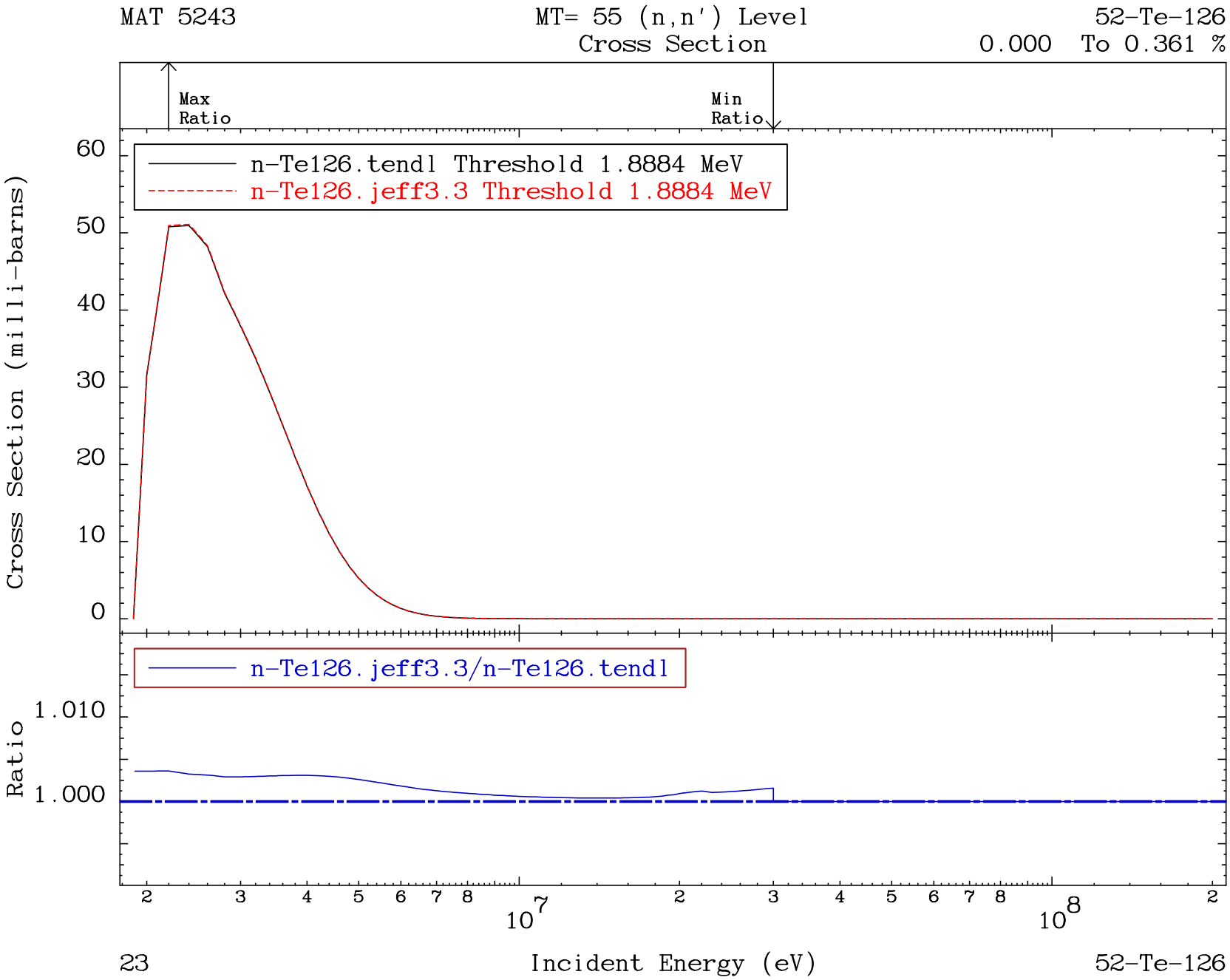

MAT 5243
(n,n') p α
Cross Section
52-Te-126
-99.68 To 5939. %
Min Ratio
Max Ratio
n-Te126.tendl Threshold 14.055 MeV
n-Te126.jeff3.3 Threshold 14.055 MeV
Cross Section (10^-9 barns)
n-Te126.jeff3.3/n-Te126.tendl
Ratio
Incident Energy (eV)
18
52-Te-126

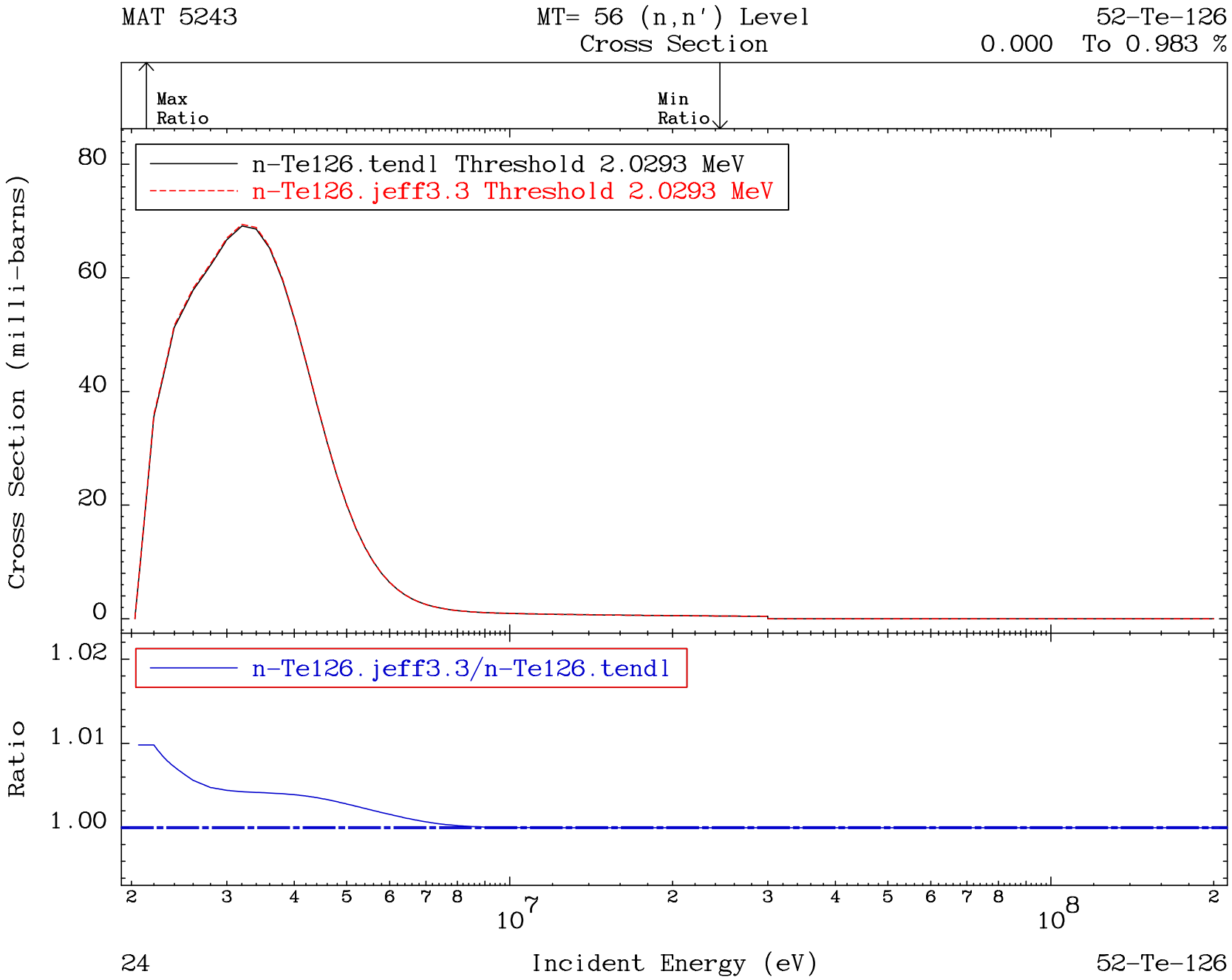

MAT 5243
MT= 51 (n,n') Level
Cross Section
52-Te-126
0.000 To 1.281 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 671.69 keV
n-Te126.jeff3.3 Threshold 671.69 keV
Cross Section (barns)
0.8
0.6
0.4
0.2
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.02
1.01
1.00
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
52-Te-126

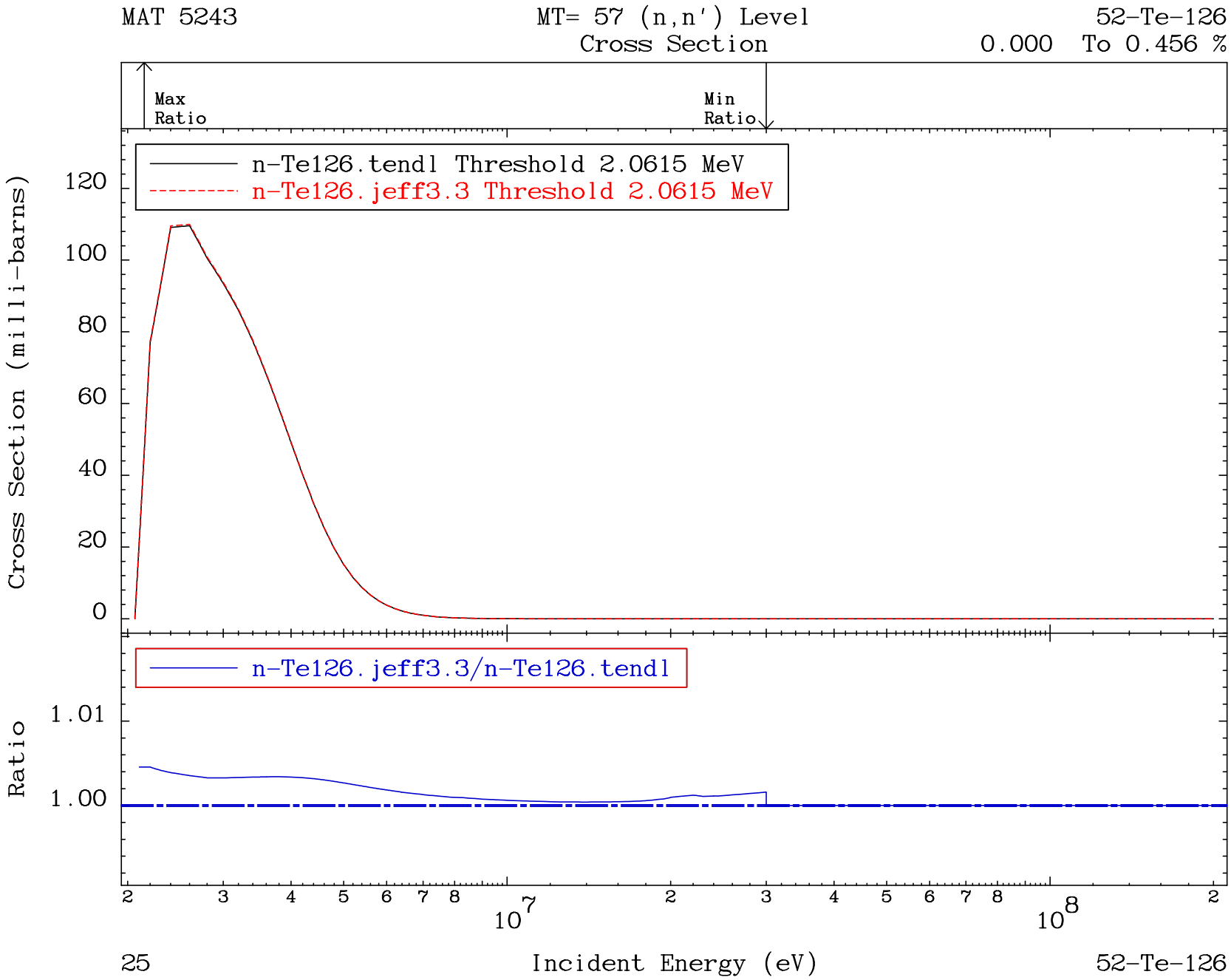

MAT 5243
MT= 52 (n,n') Level
Cross Section
52-Te-126
0.000 To 3.195 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 1.3723 MeV
n-Te126.jeff3.3 Threshold 1.3723 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.04
1.02
1.00
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
52-Te-126

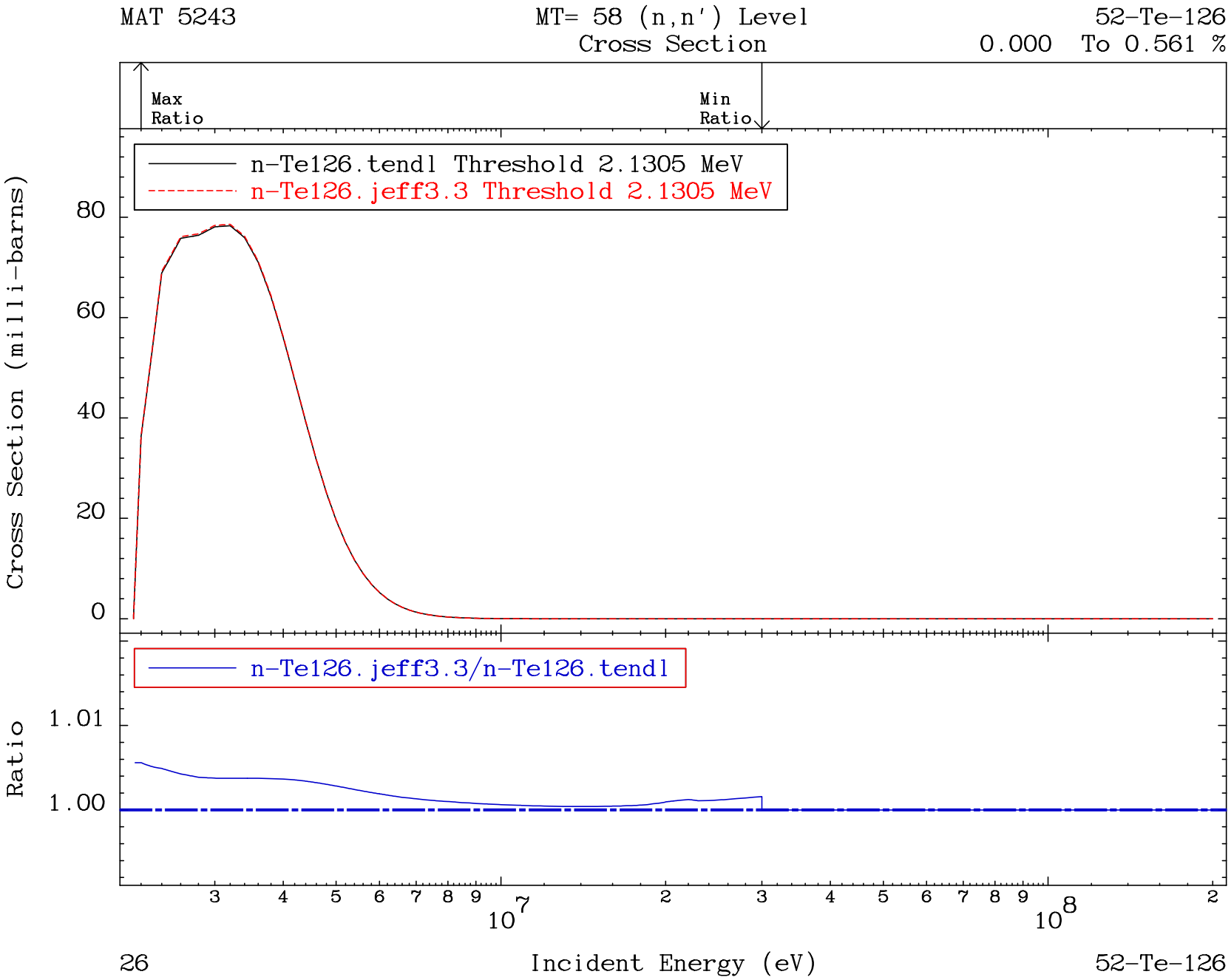

MAT 5243
MT= 53 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.504 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 1.4316 MeV
n-Te126.jeff3.3 Threshold 1.4316 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
52-Te-126

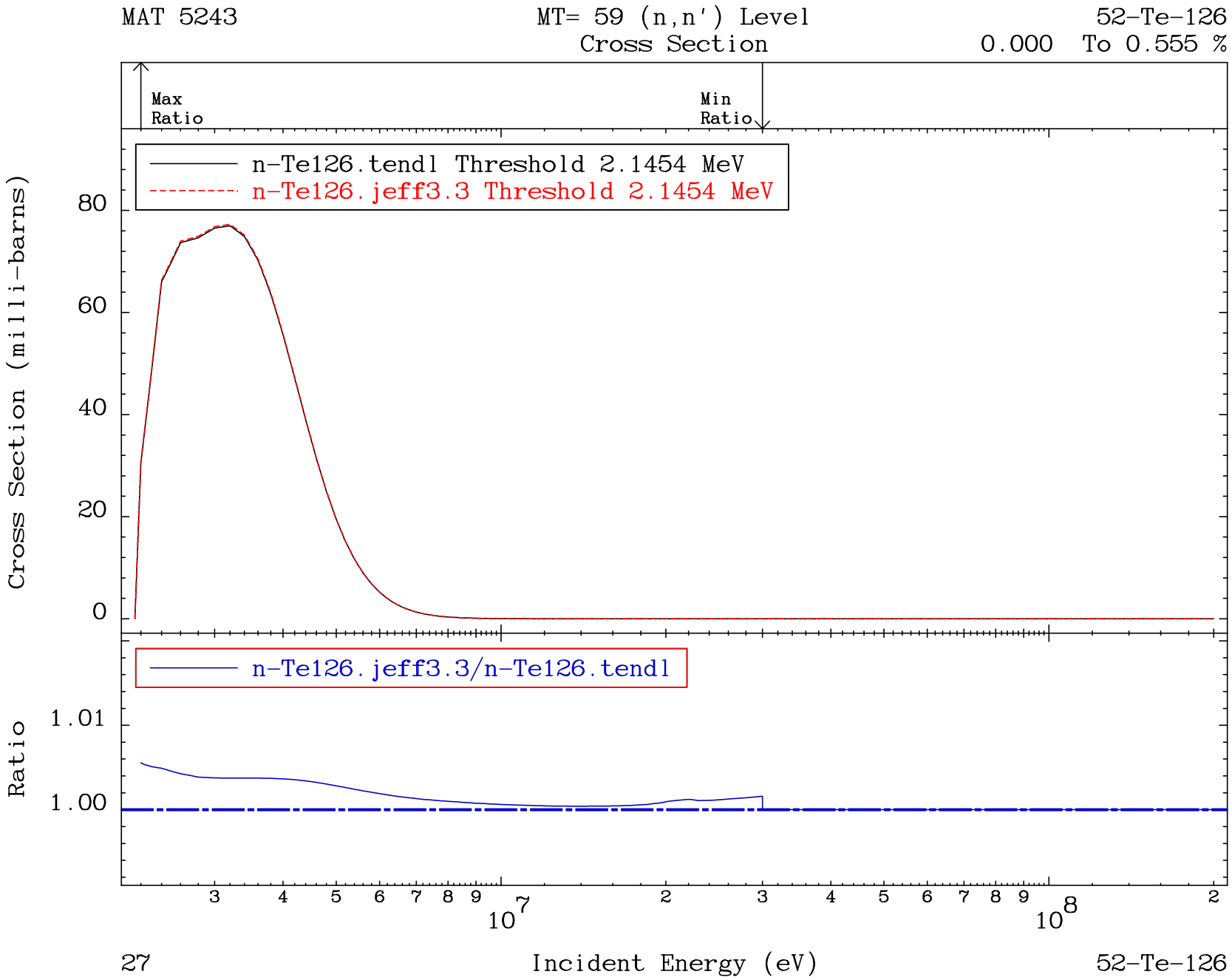

MAT 5243
MT= 54 (n,n') Level
Cross Section
52-Te-126
0.000 To 10.41 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 1.7904 MeV
n-Te126.jeff3.3 Threshold 1.7904 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.10
1.05
1.00
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
52-Te-126

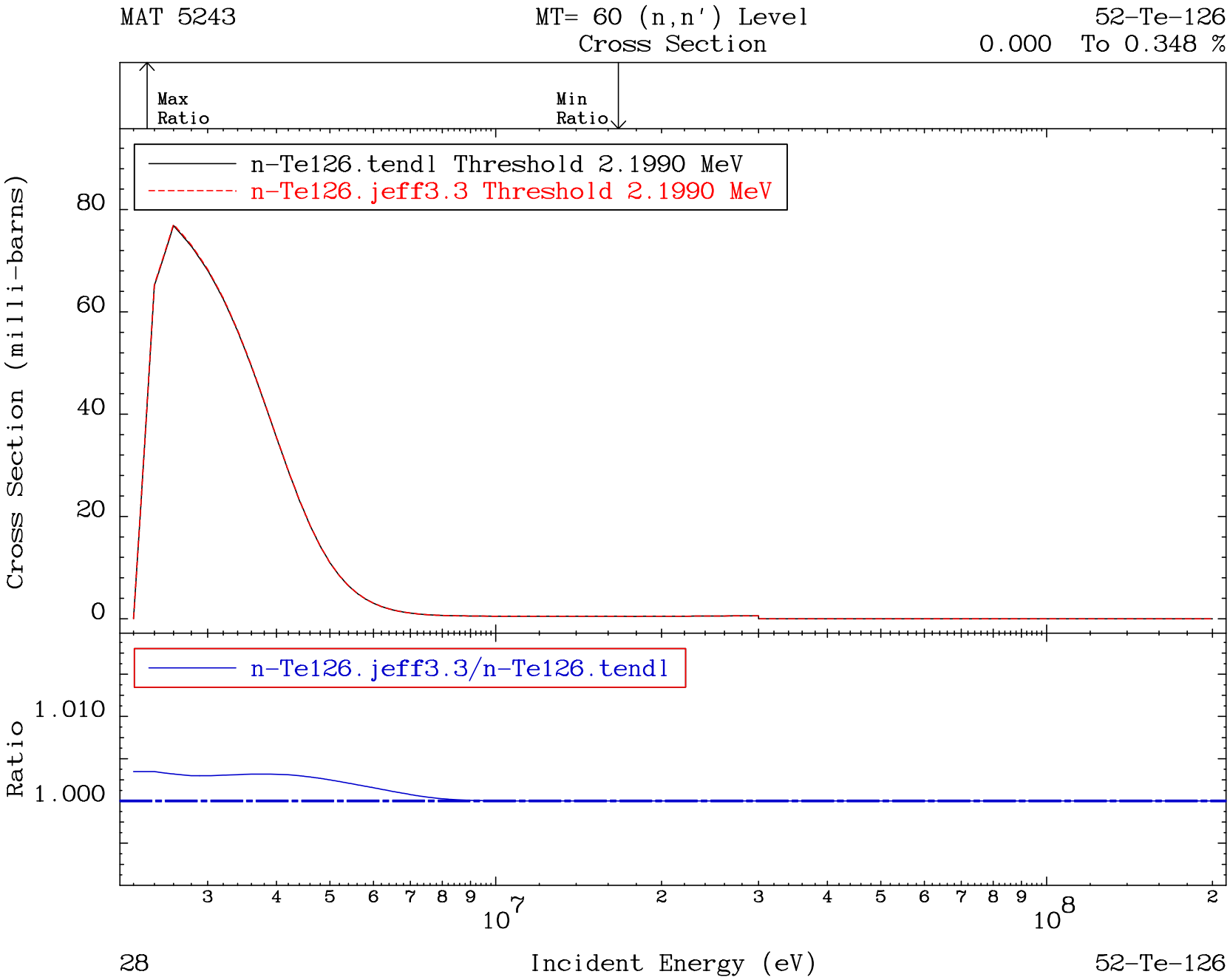

MAT 5243
MT= 55 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.361 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 1.8884 MeV
n-Te126.jeff3.3 Threshold 1.8884 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.010
1.000
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
52-Te-126

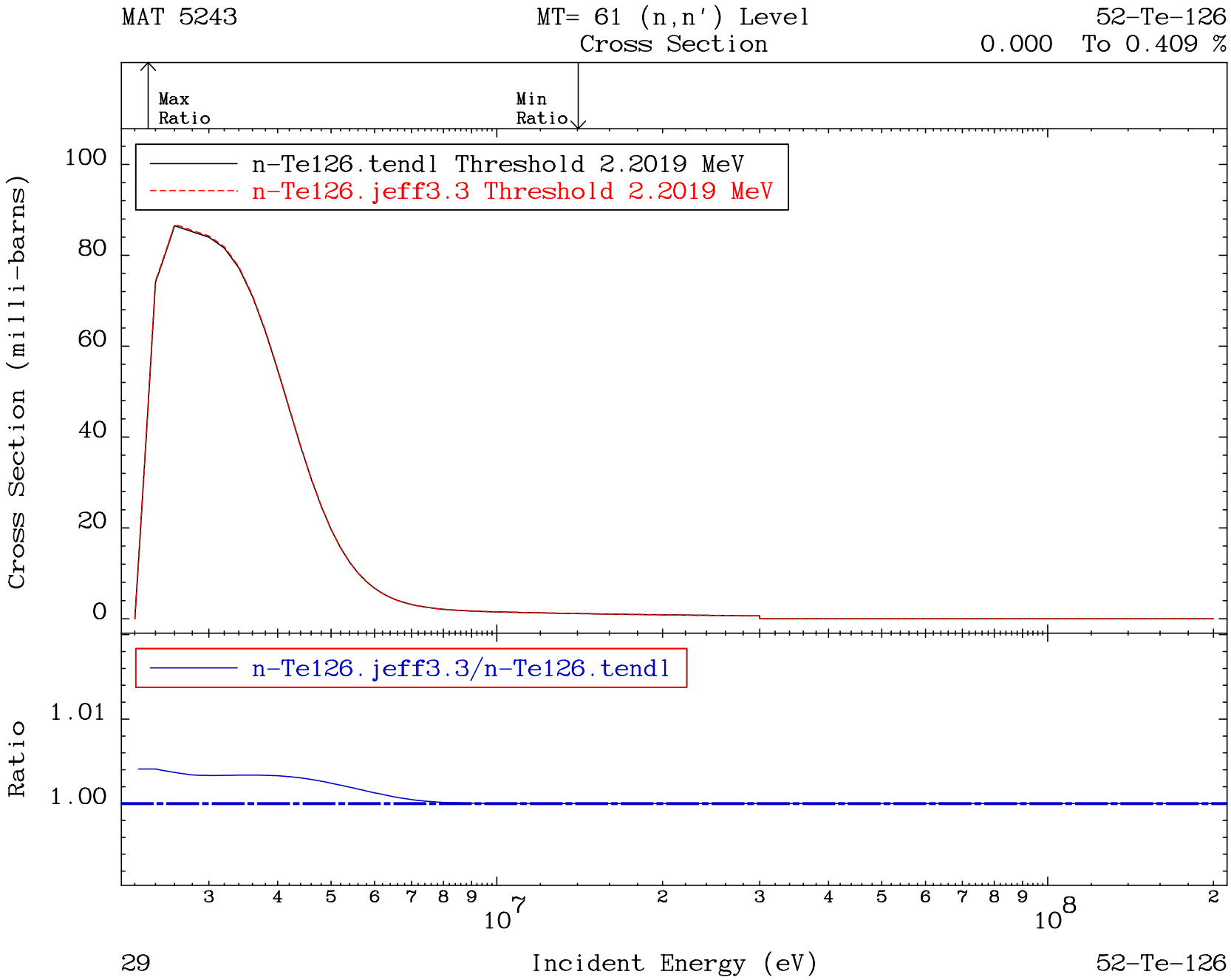

MAT 5243
MT= 56 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.983 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.0293 MeV
n-Te126.jeff3.3 Threshold 2.0293 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.02
1.01
1.00
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
52-Te-126

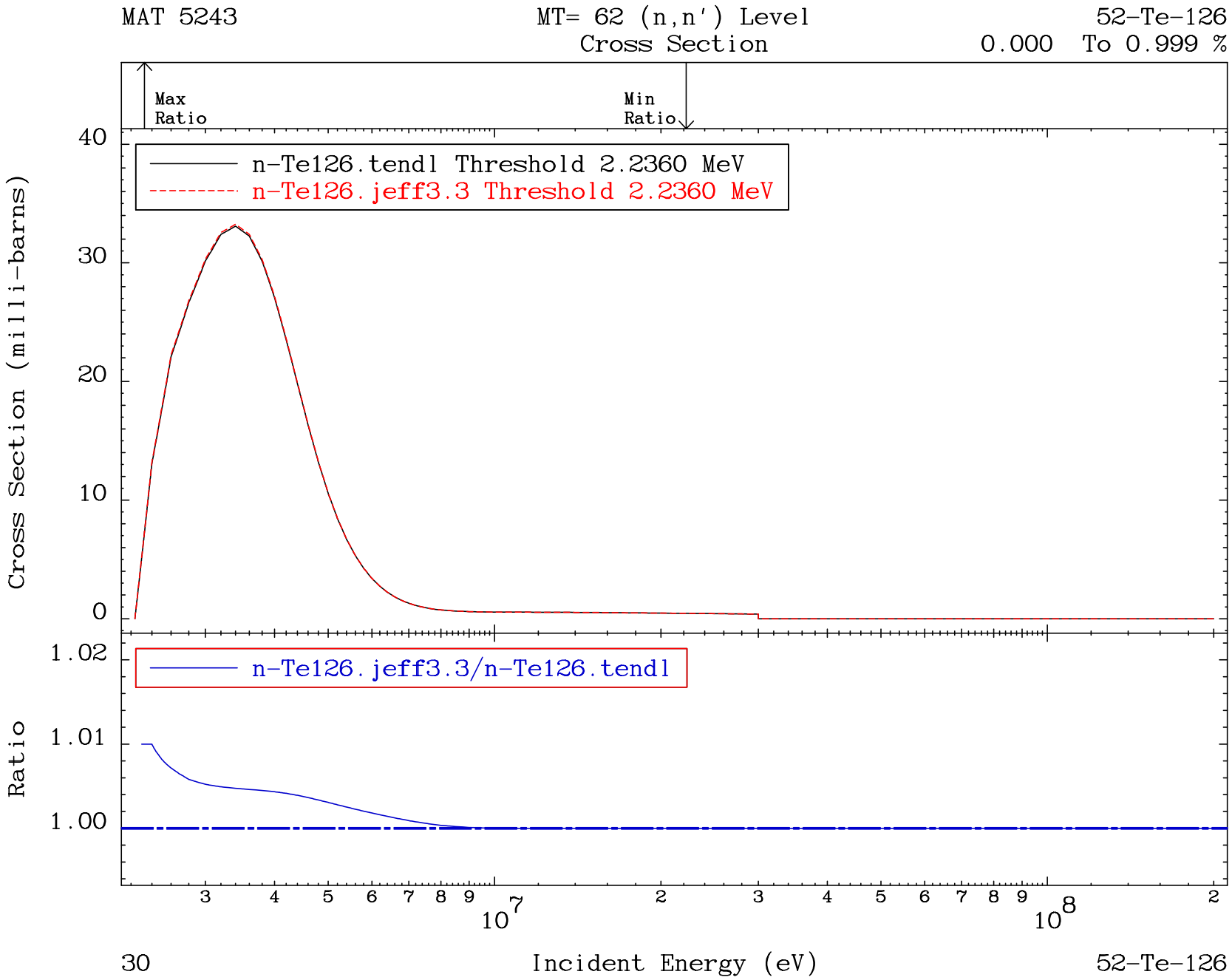

MAT 5243
MT= 57 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.456 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.0615 MeV
n-Te126.jeff3.3 Threshold 2.0615 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
25
Incident Energy (eV)
52-Te-126

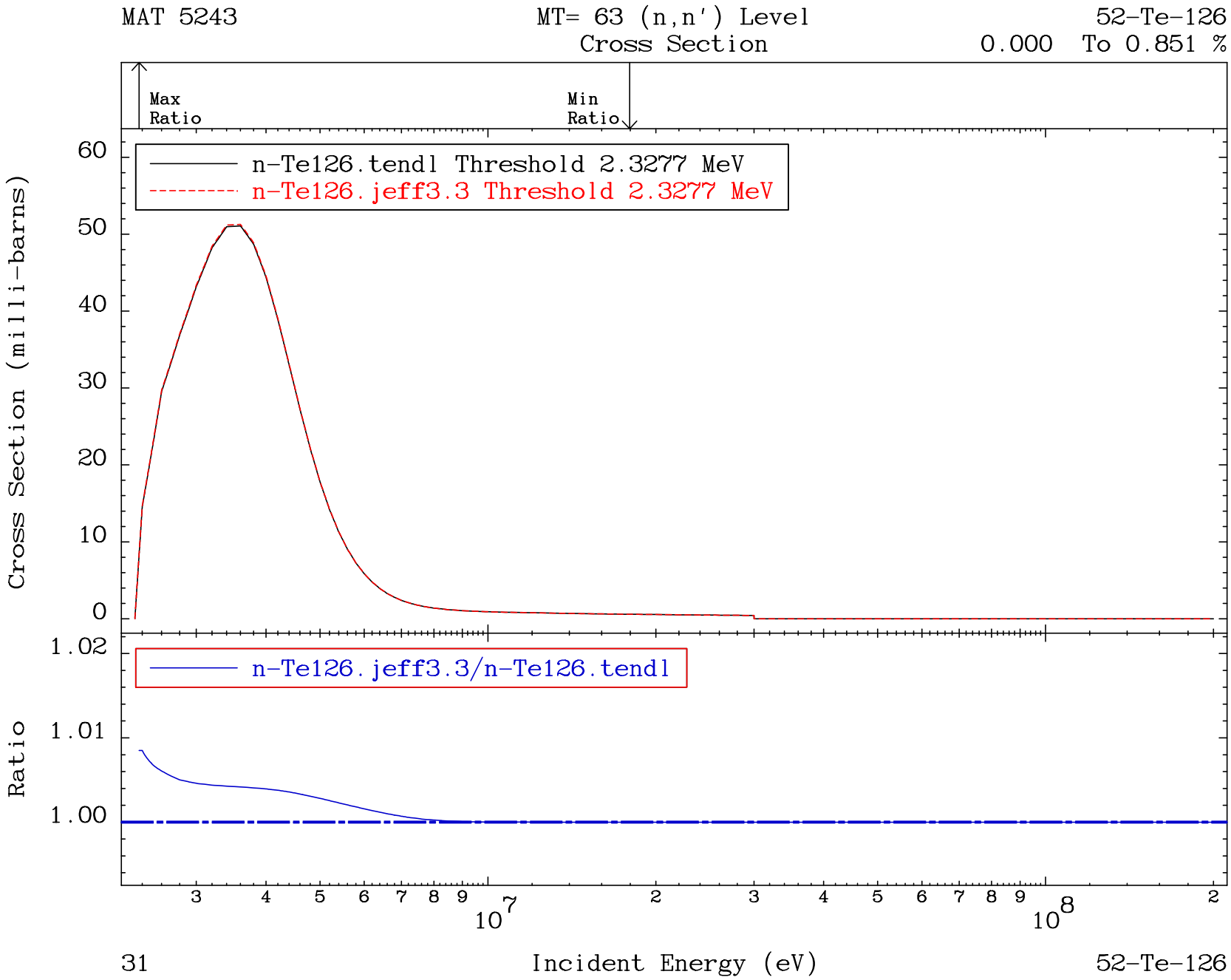

MAT 5243
MT= 58 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.561 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.1305 MeV
n-Te126.jeff3.3 Threshold 2.1305 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
52-Te-126

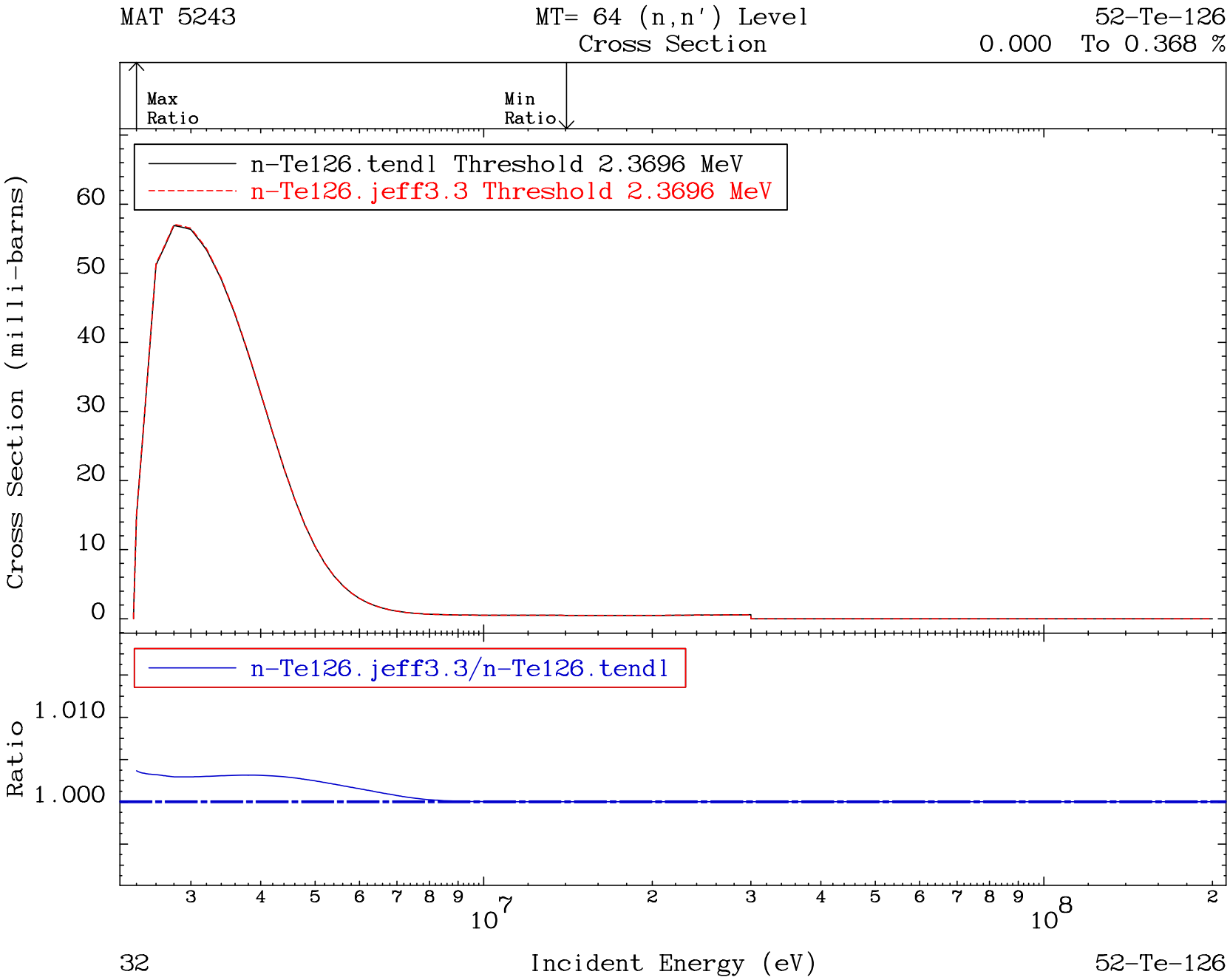

MAT 5243
MT= 59 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.555 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.1454 MeV
n-Te126.jeff3.3 Threshold 2.1454 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
52-Te-126

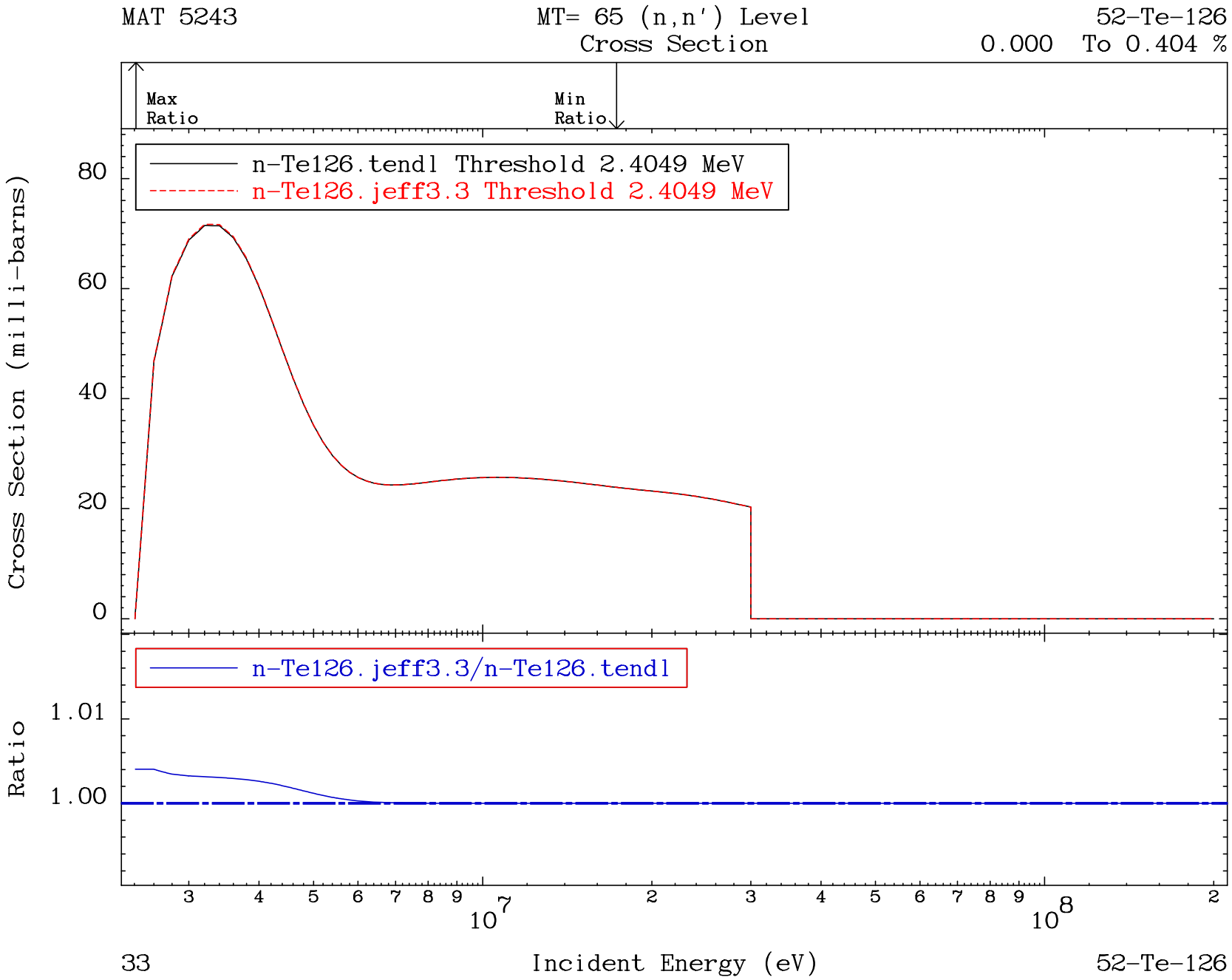

MAT 5243
MT= 60 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.348 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.1990 MeV
n-Te126.jeff3.3 Threshold 2.1990 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.010
1.000
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
52-Te-126

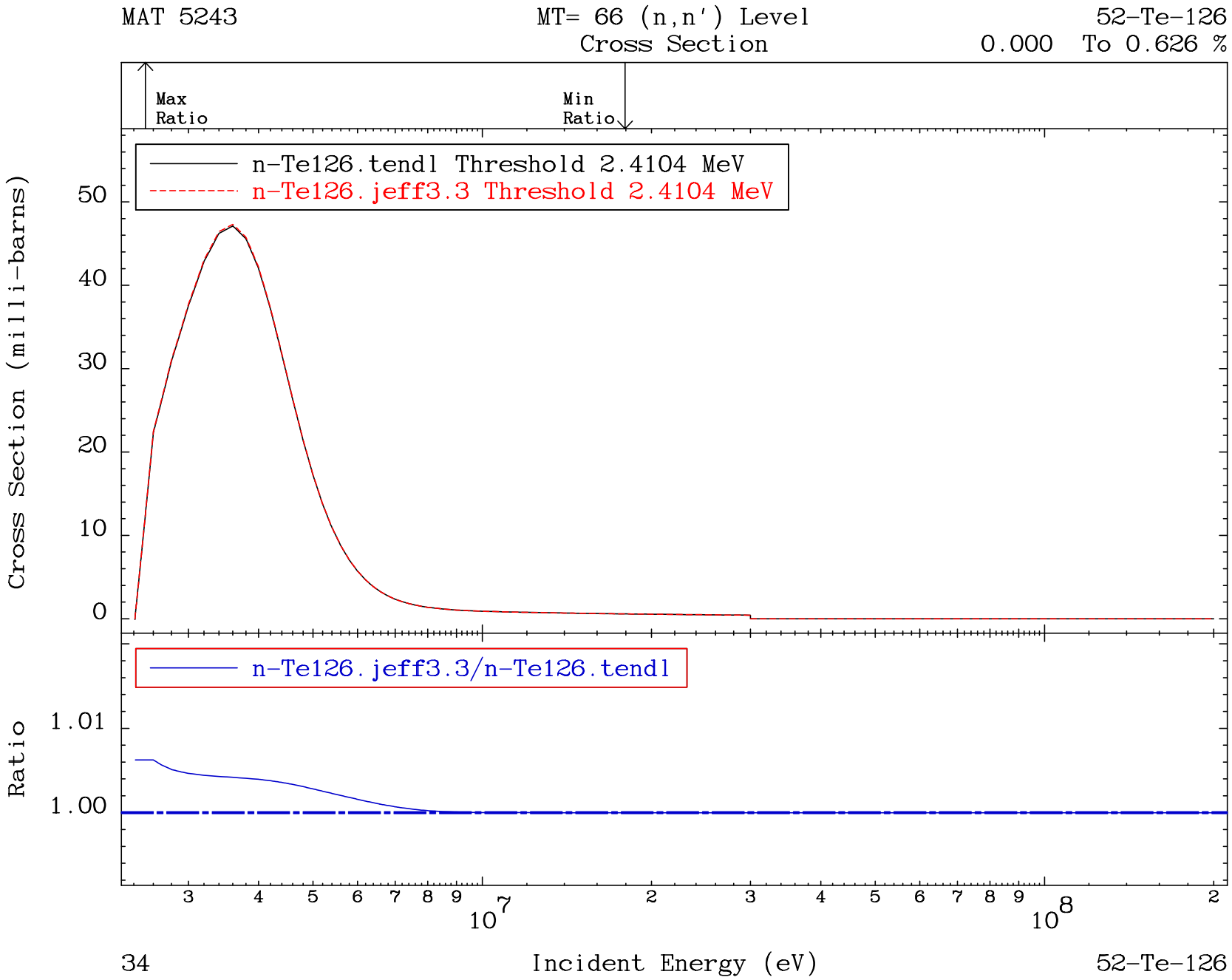

MAT 5243
MT= 61 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.409 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.2019 MeV
n-Te126.jeff3.3 Threshold 2.2019 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
52-Te-126

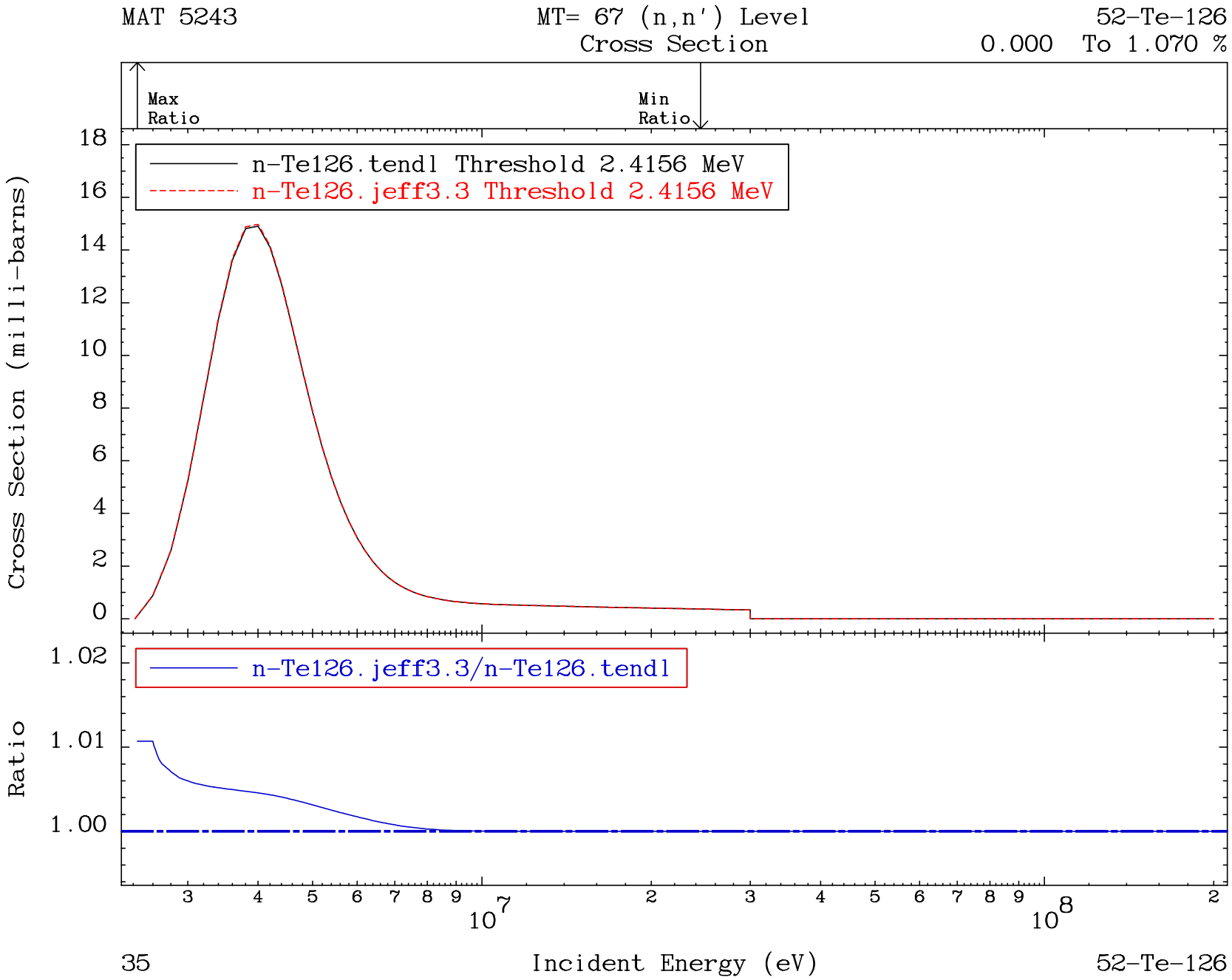

MAT 5243
MT= 62 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.999 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.2360 MeV
n-Te126.jeff3.3 Threshold 2.2360 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
52-Te-126

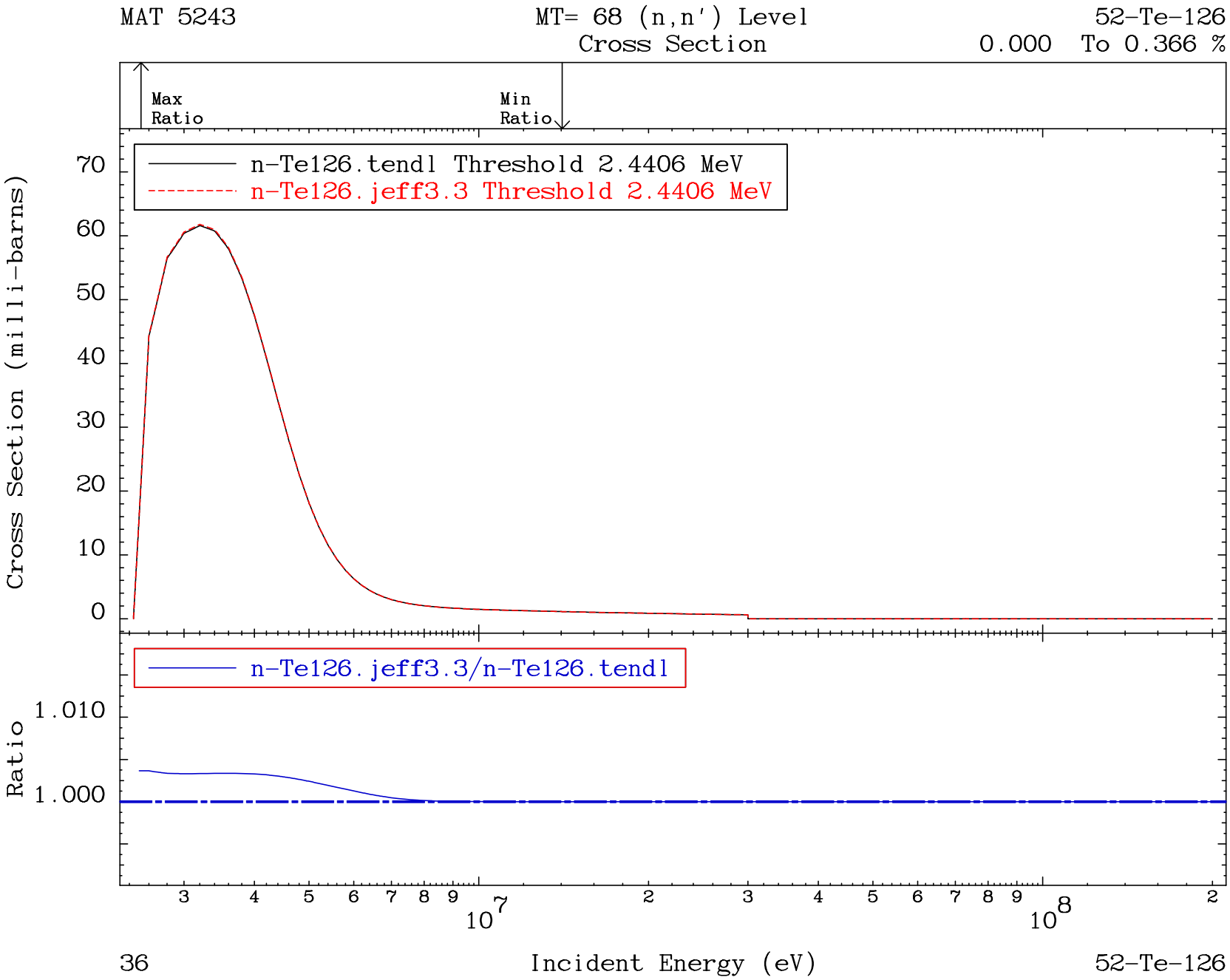

MAT 5243
MT= 63 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.851 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.3277 MeV
n-Te126.jeff3.3 Threshold 2.3277 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
52-Te-126

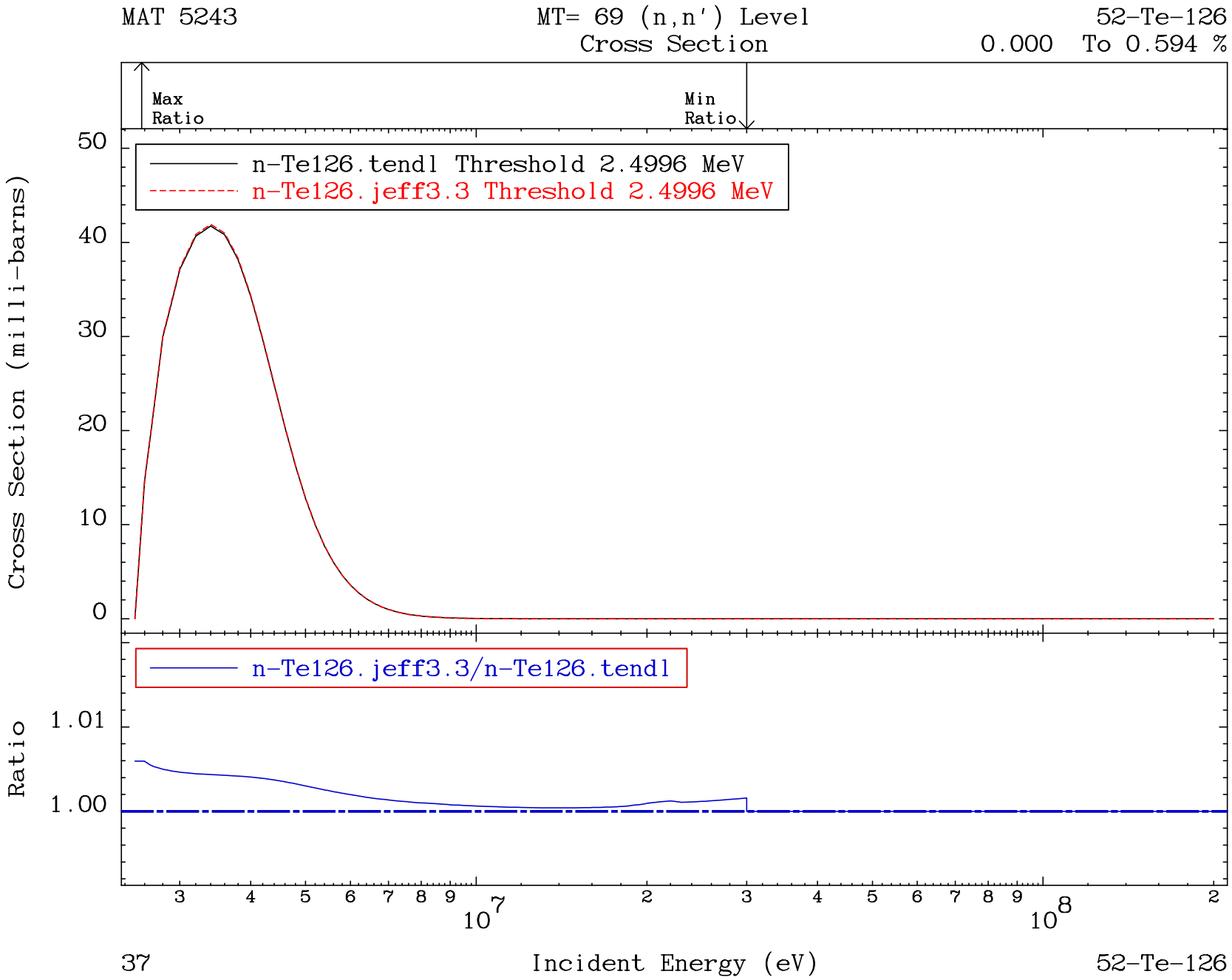

MAT 5243
MT= 64 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.368 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.3696 MeV
n-Te126.jeff3.3 Threshold 2.3696 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.010
1.000
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
52-Te-126

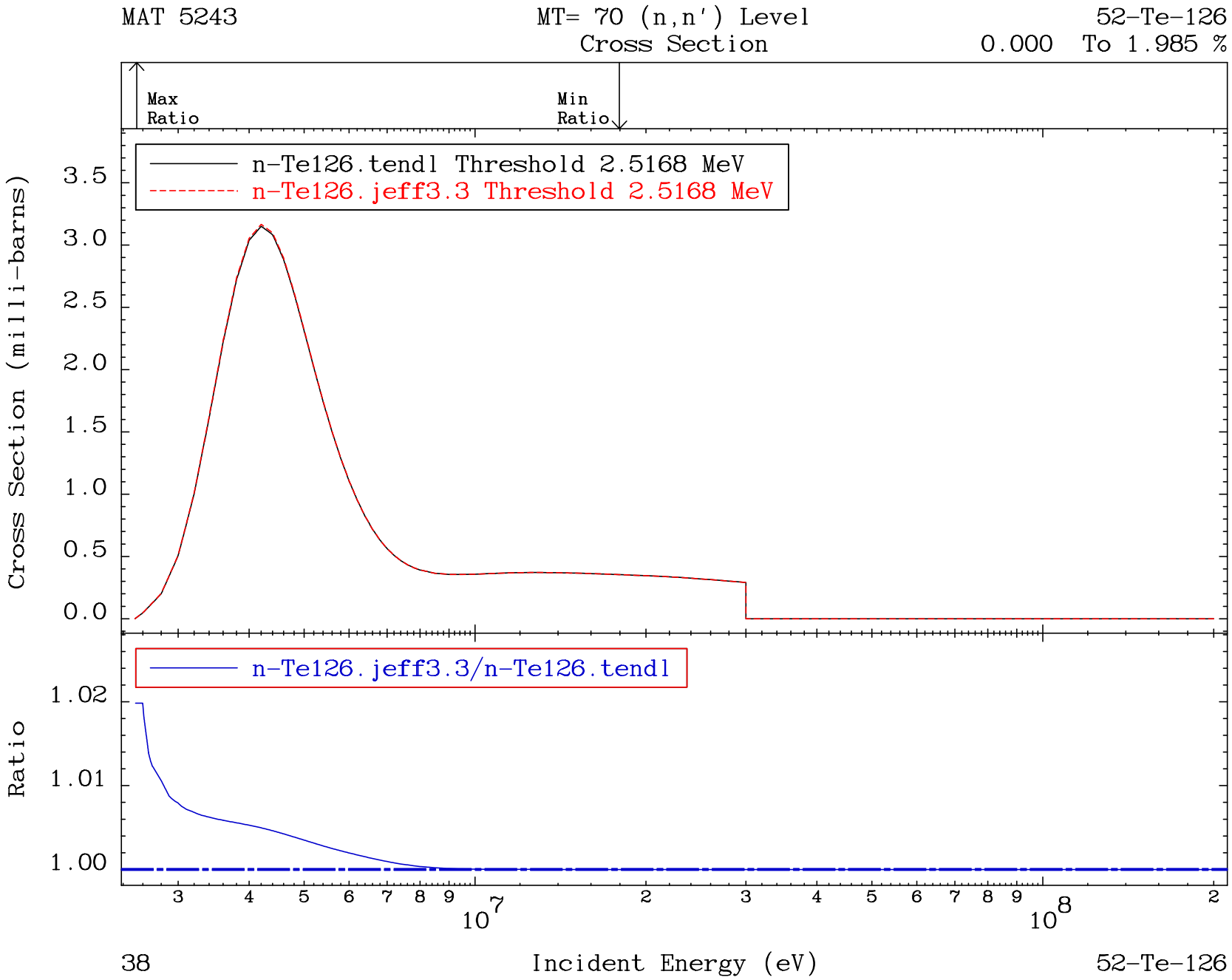

MAT 5243
MT= 65 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.404 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.4049 MeV
n-Te126.jeff3.3 Threshold 2.4049 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
33
Incident Energy (eV)
52-Te-126

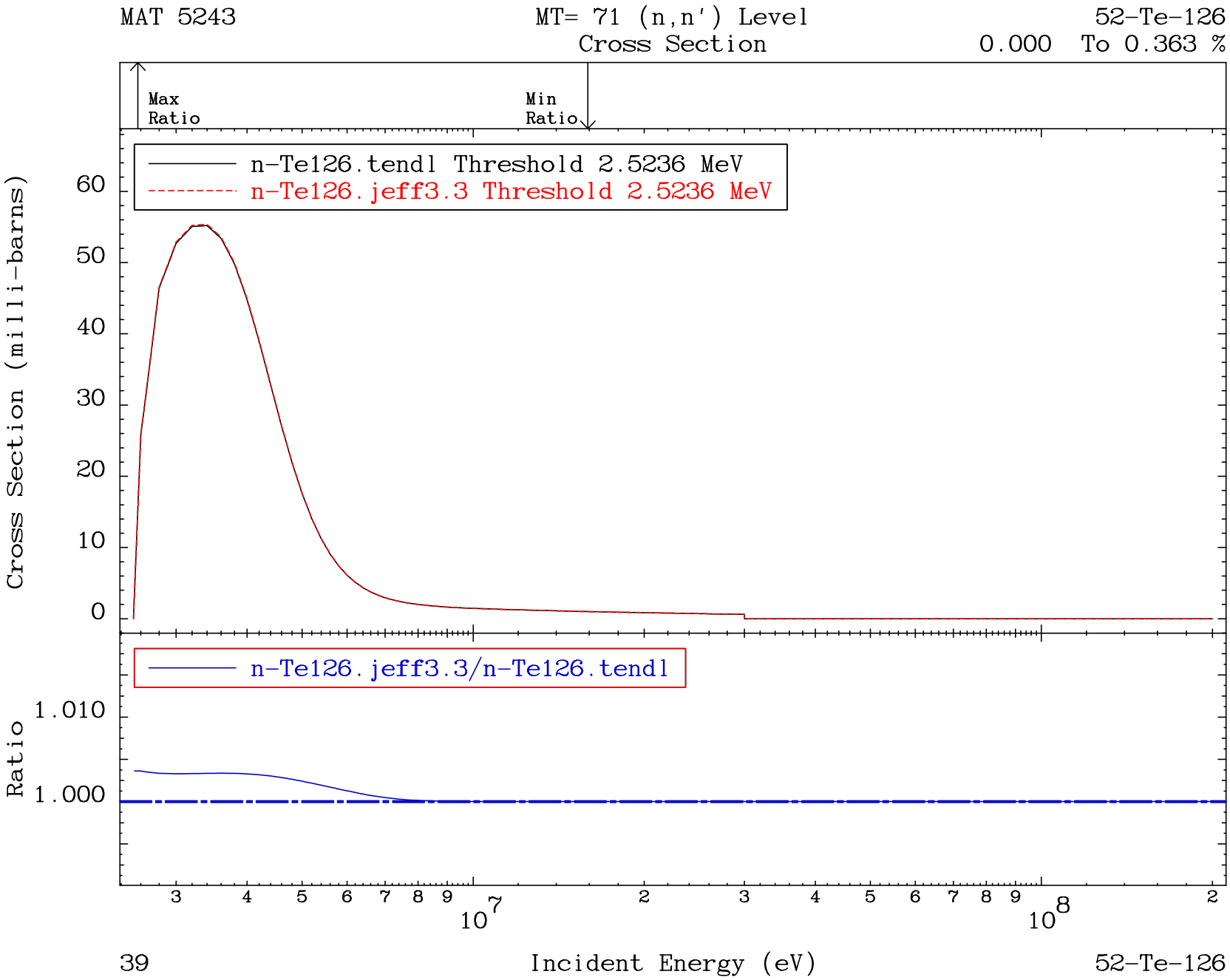

MAT 5243
MT= 66 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.626 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.4104 MeV
n-Te126.jeff3.3 Threshold 2.4104 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
34
Incident Energy (eV)
52-Te-126

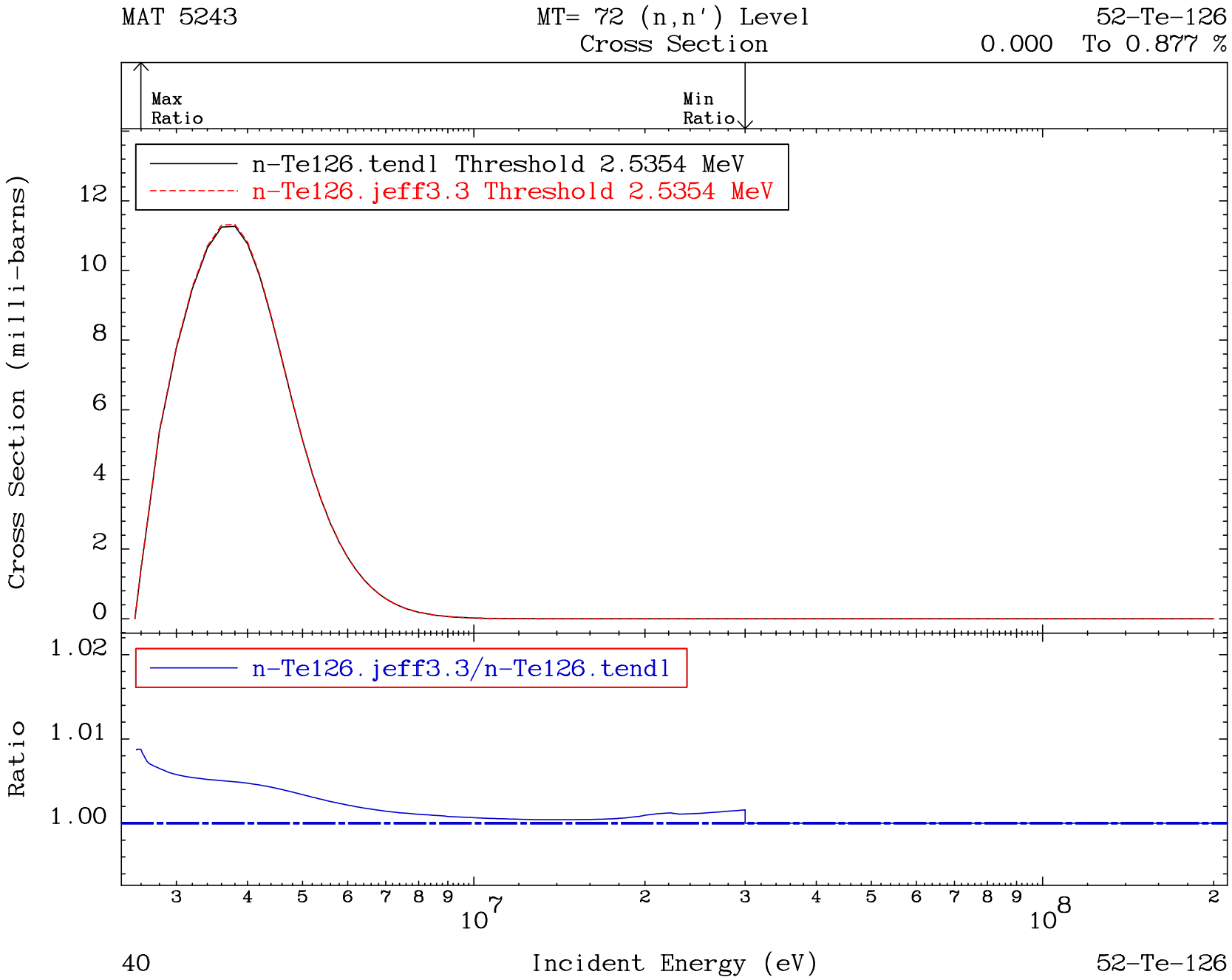

MAT 5243
MT= 67 (n,n') Level
Cross Section
52-Te-126
0.000 To 1.070 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.4156 MeV
n-Te126.jeff3.3 Threshold 2.4156 MeV
Cross Section (milli-barns)
18
16
14
12
10
8
6
4
2
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
35
Incident Energy (eV)
52-Te-126

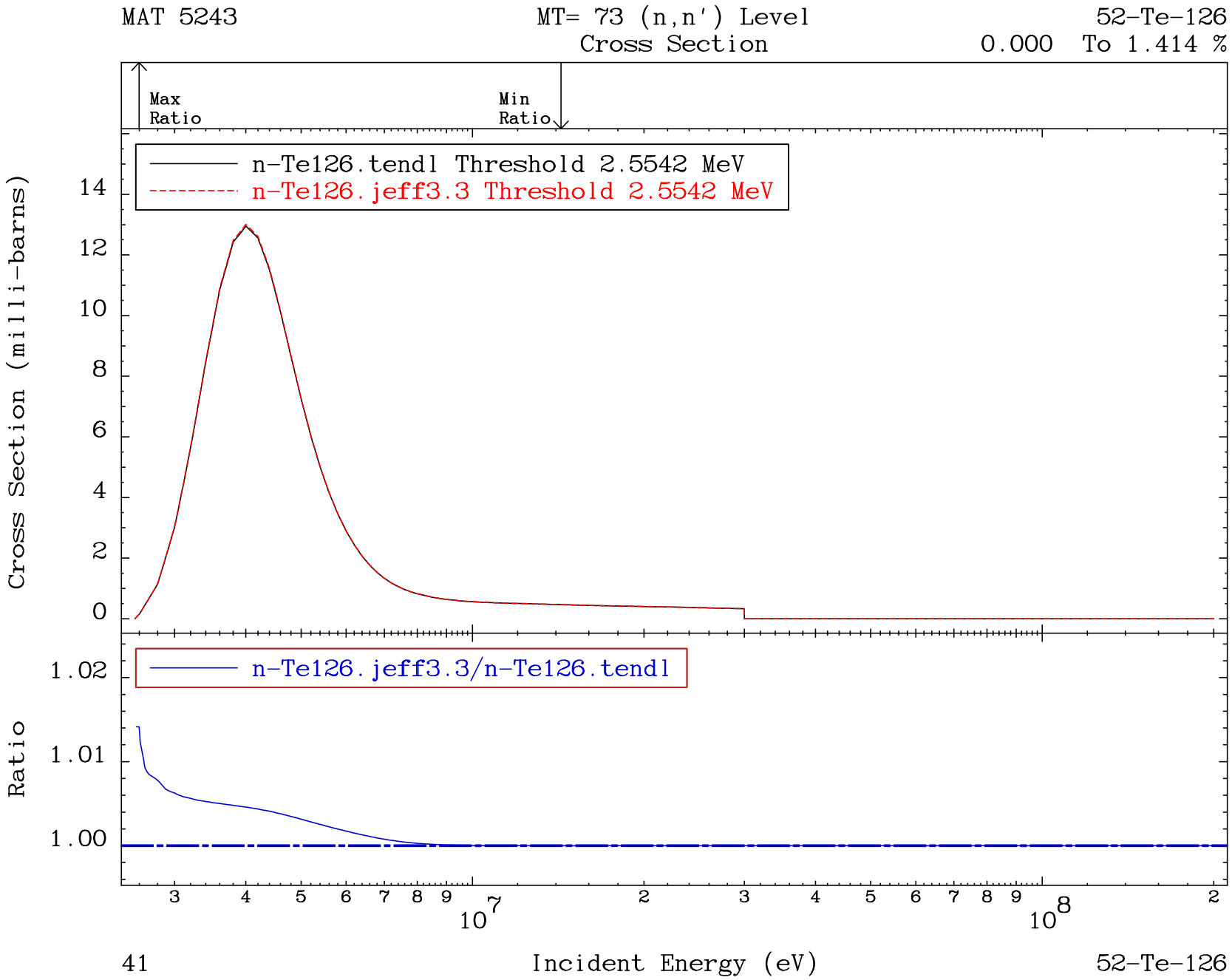

MAT 5243
MT= 68 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.366 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.4406 MeV
n-Te126.jeff3.3 Threshold 2.4406 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.010
1.000
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
36
Incident Energy (eV)
52-Te-126

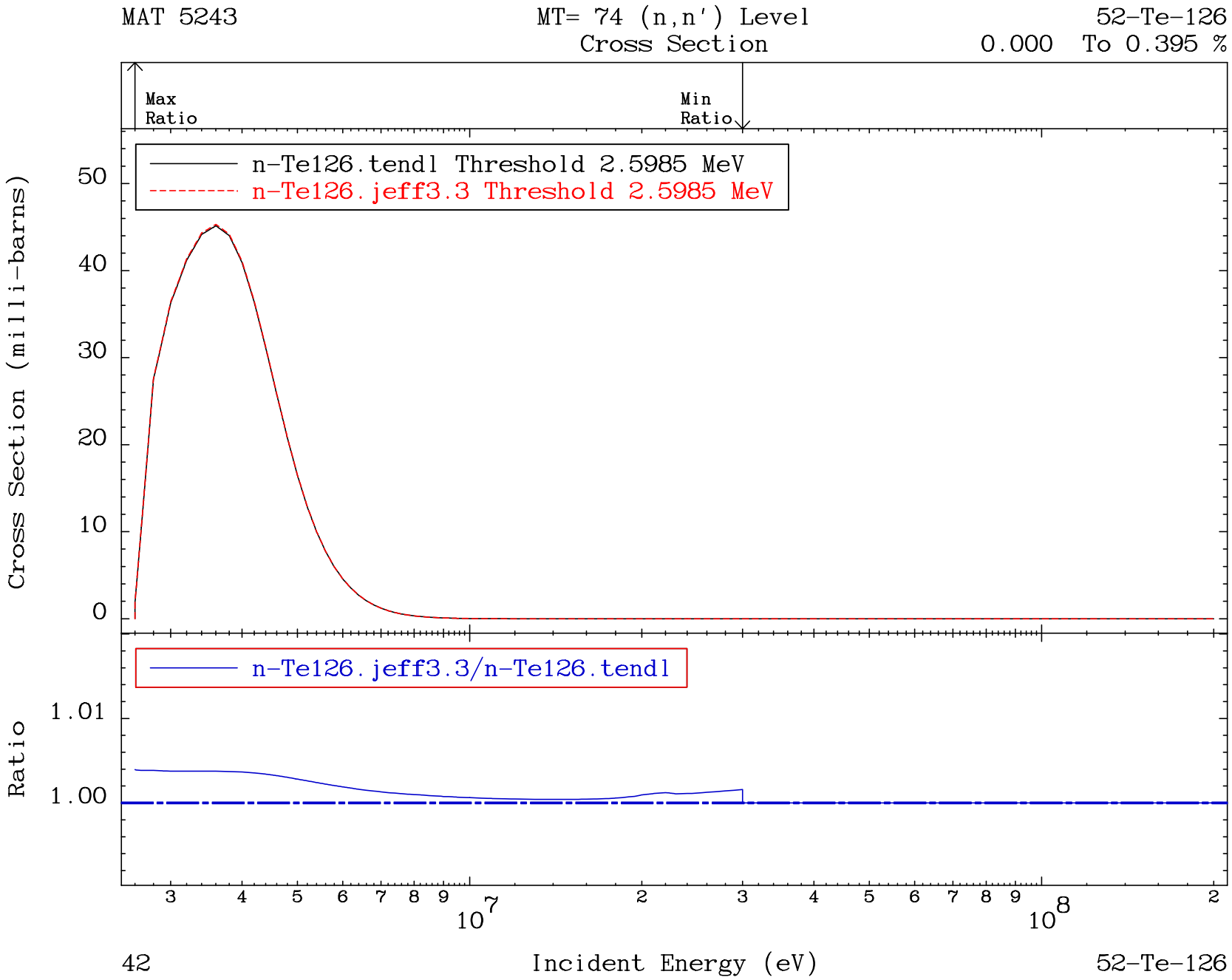

MAT 5243
MT= 69 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.594 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.4996 MeV
n-Te126.jeff3.3 Threshold 2.4996 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
52-Te-126

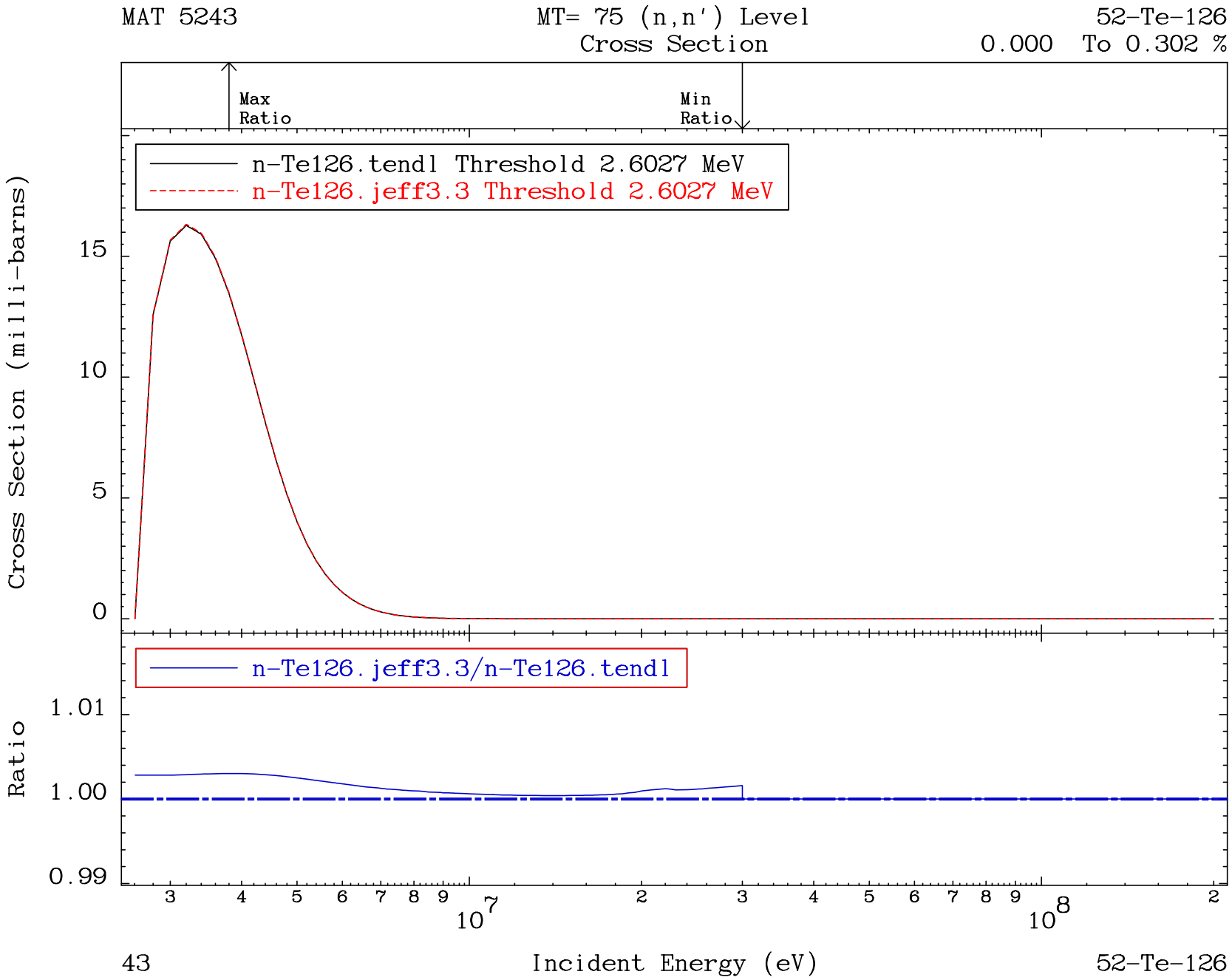

MAT 5243
MT= 70 (n,n') Level
Cross Section
52-Te-126
0.000 To 1.985 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.5168 MeV
n-Te126.jeff3.3 Threshold 2.5168 MeV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
52-Te-126

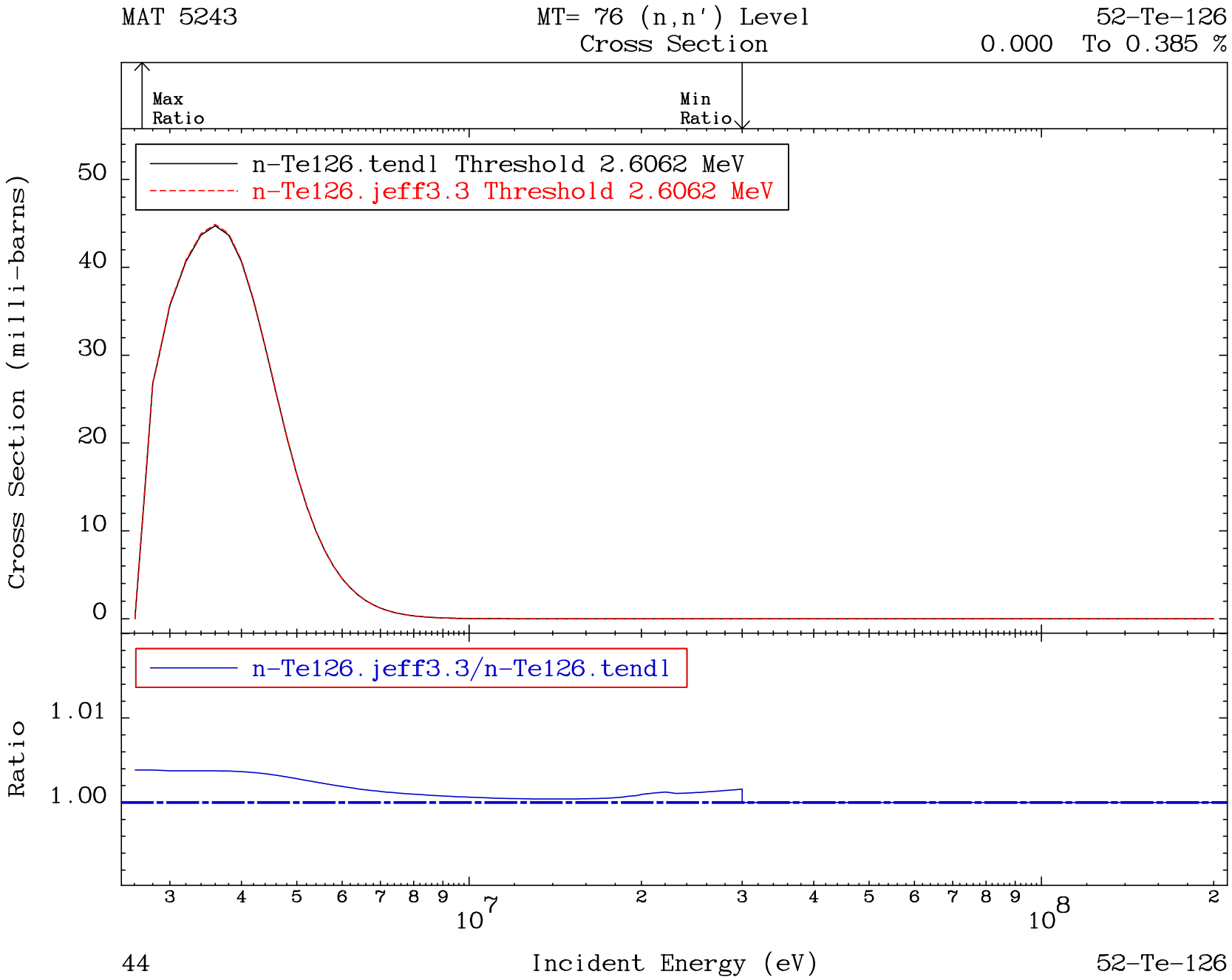

MAT 5243
MT= 71 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.363 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.5236 MeV
n-Te126.jeff3.3 Threshold 2.5236 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.010
1.000
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
52-Te-126

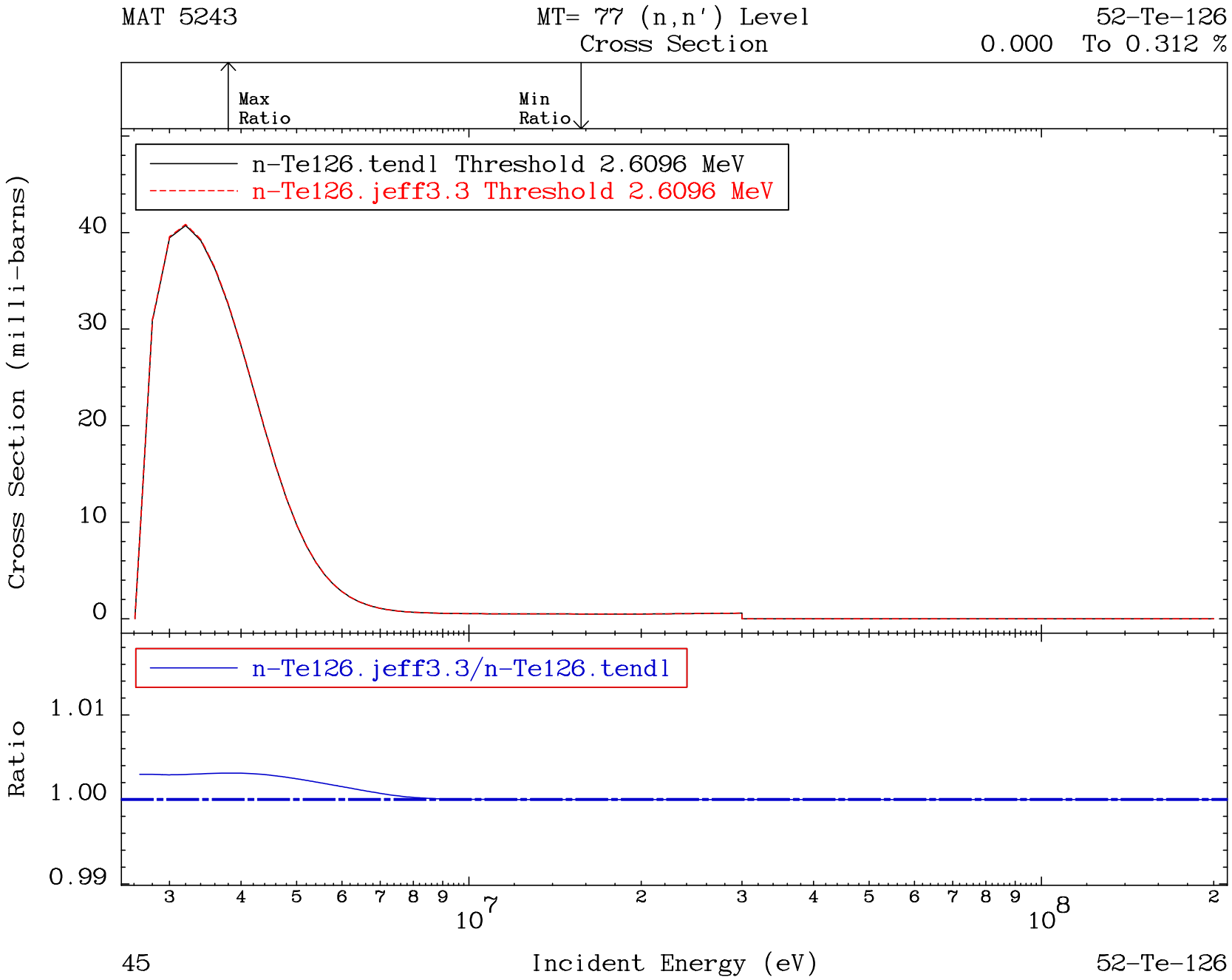

MAT 5243
MT= 72 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.877 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.5354 MeV
n-Te126.jeff3.3 Threshold 2.5354 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
40
Incident Energy (eV)
52-Te-126

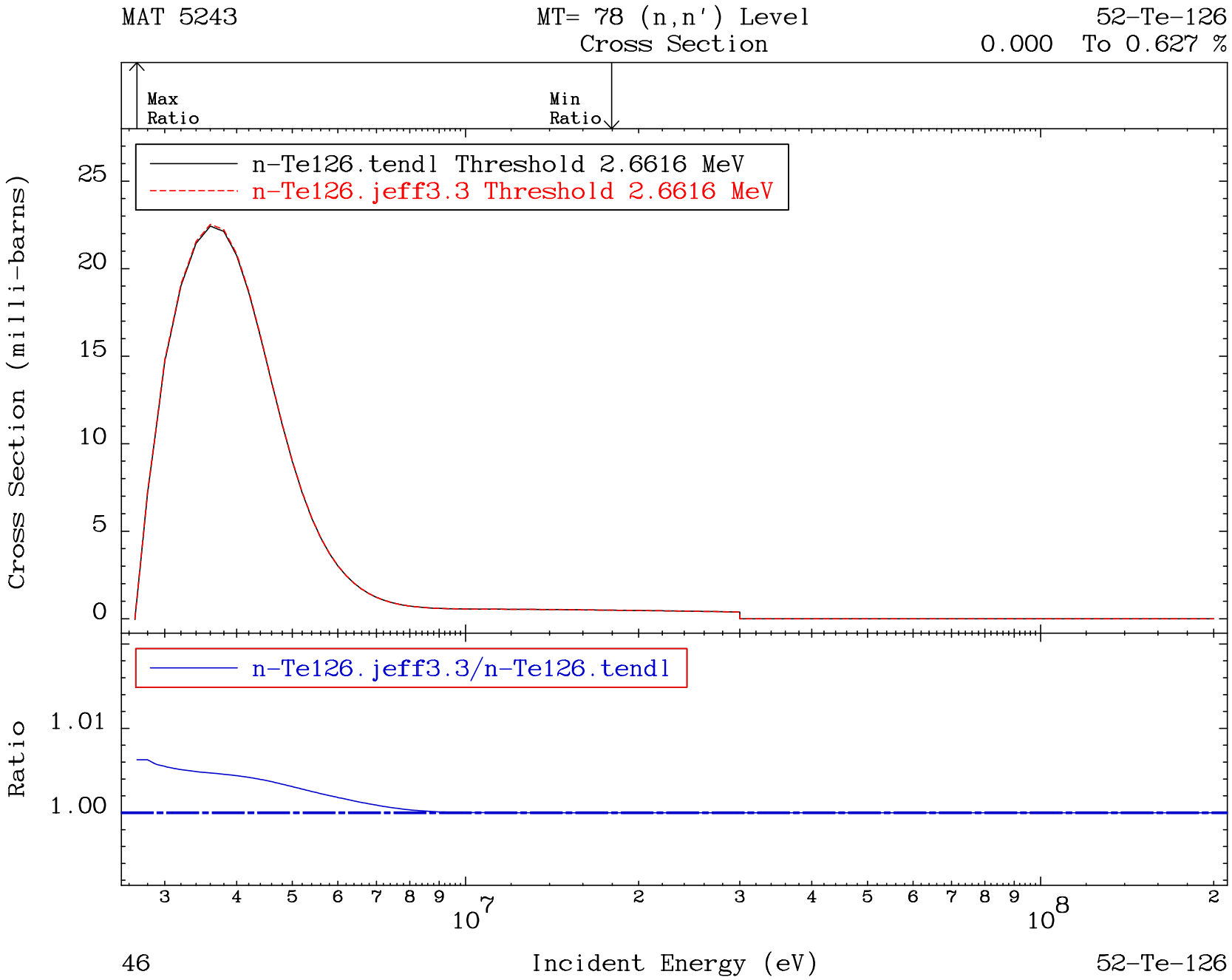

MAT 5243
MT= 73 (n,n') Level
Cross Section
52-Te-126
0.000 To 1.414 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.5542 MeV
n-Te126.jeff3.3 Threshold 2.5542 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
52-Te-126

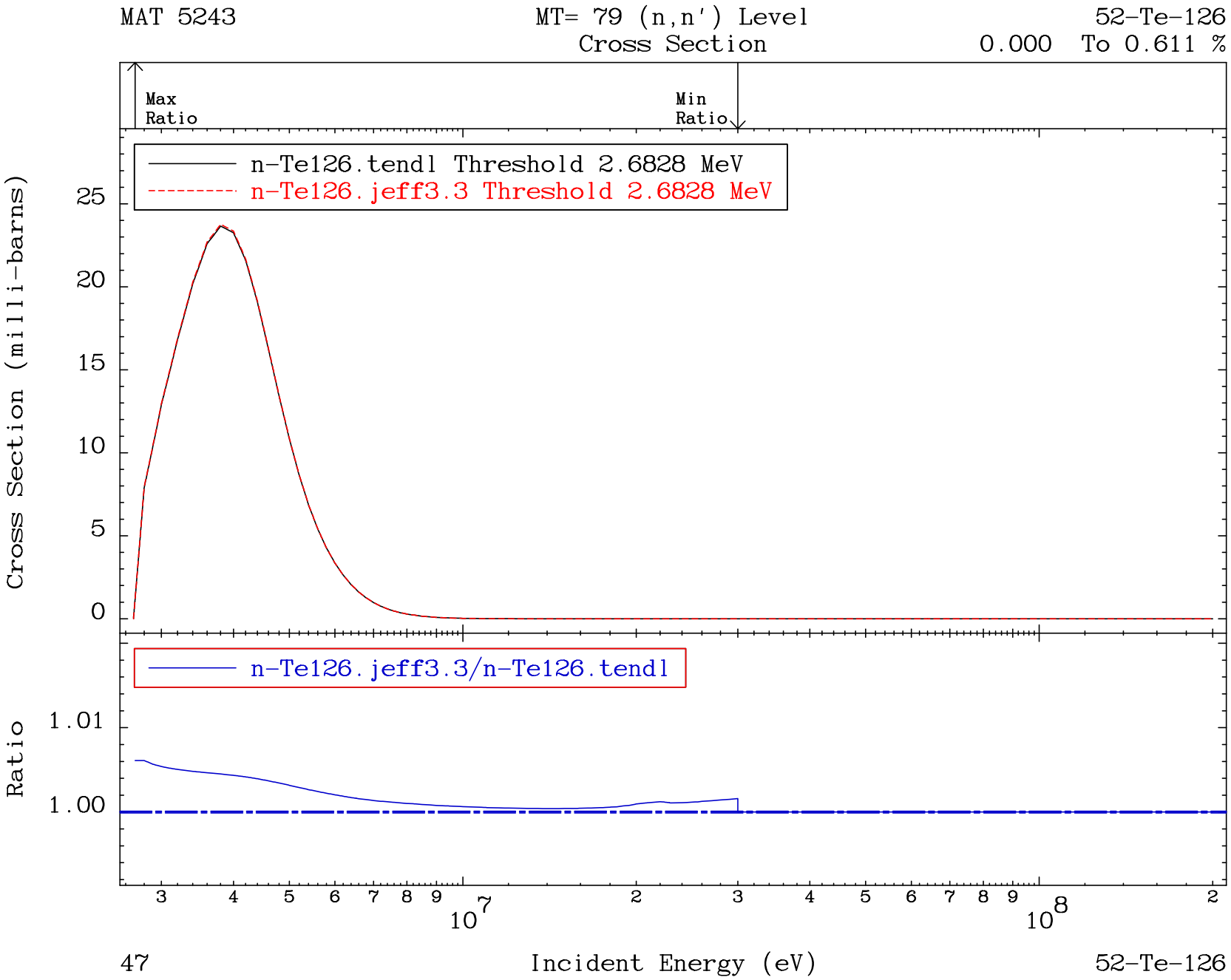

MAT 5243
MT= 74 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.395 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.5985 MeV
n-Te126.jeff3.3 Threshold 2.5985 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
52-Te-126

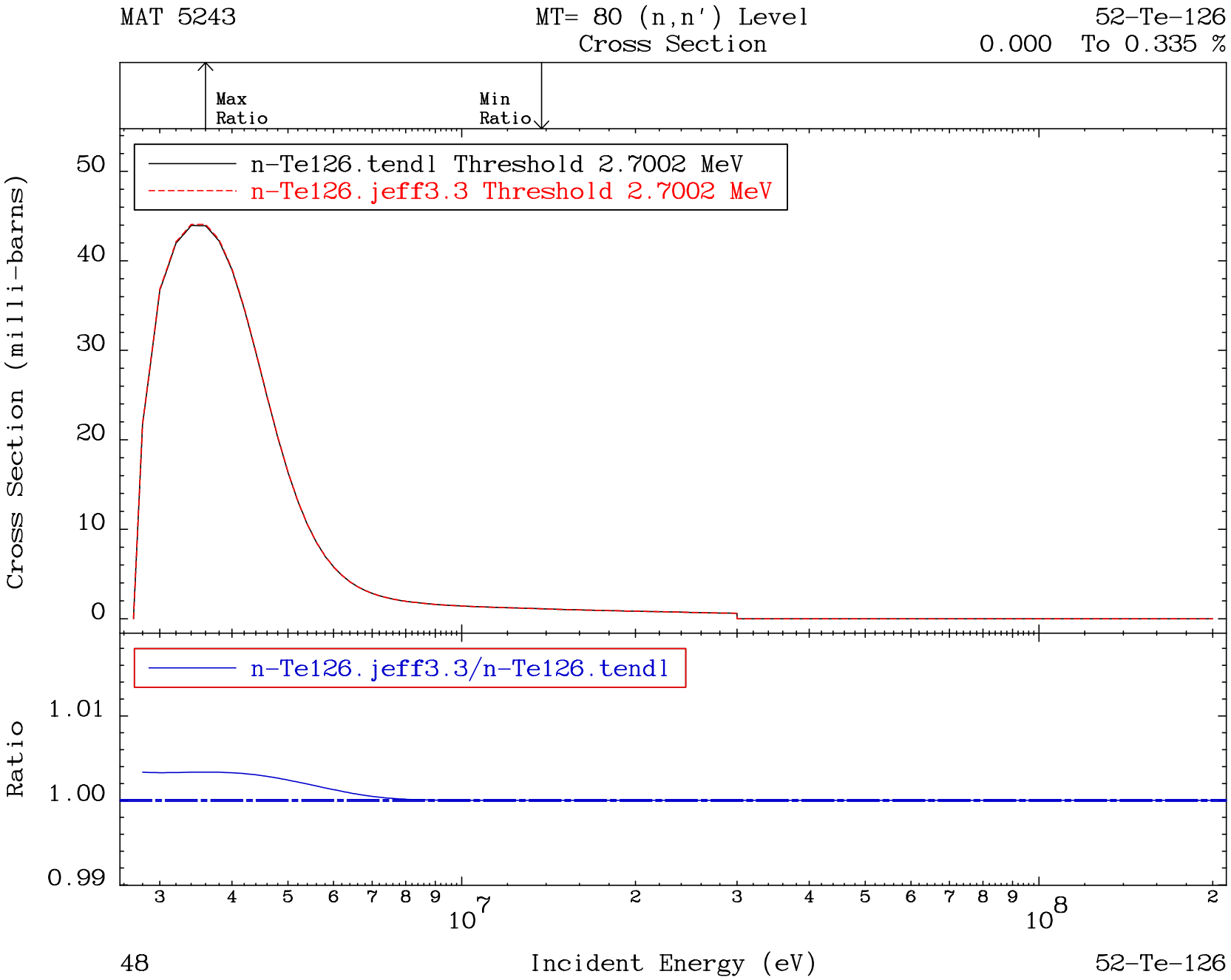

MAT 5243
MT= 75 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.302 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.6027 MeV
n-Te126.jeff3.3 Threshold 2.6027 MeV
Cross Section (milli-barns)
15
10
5
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
43
Incident Energy (eV)
52-Te-126

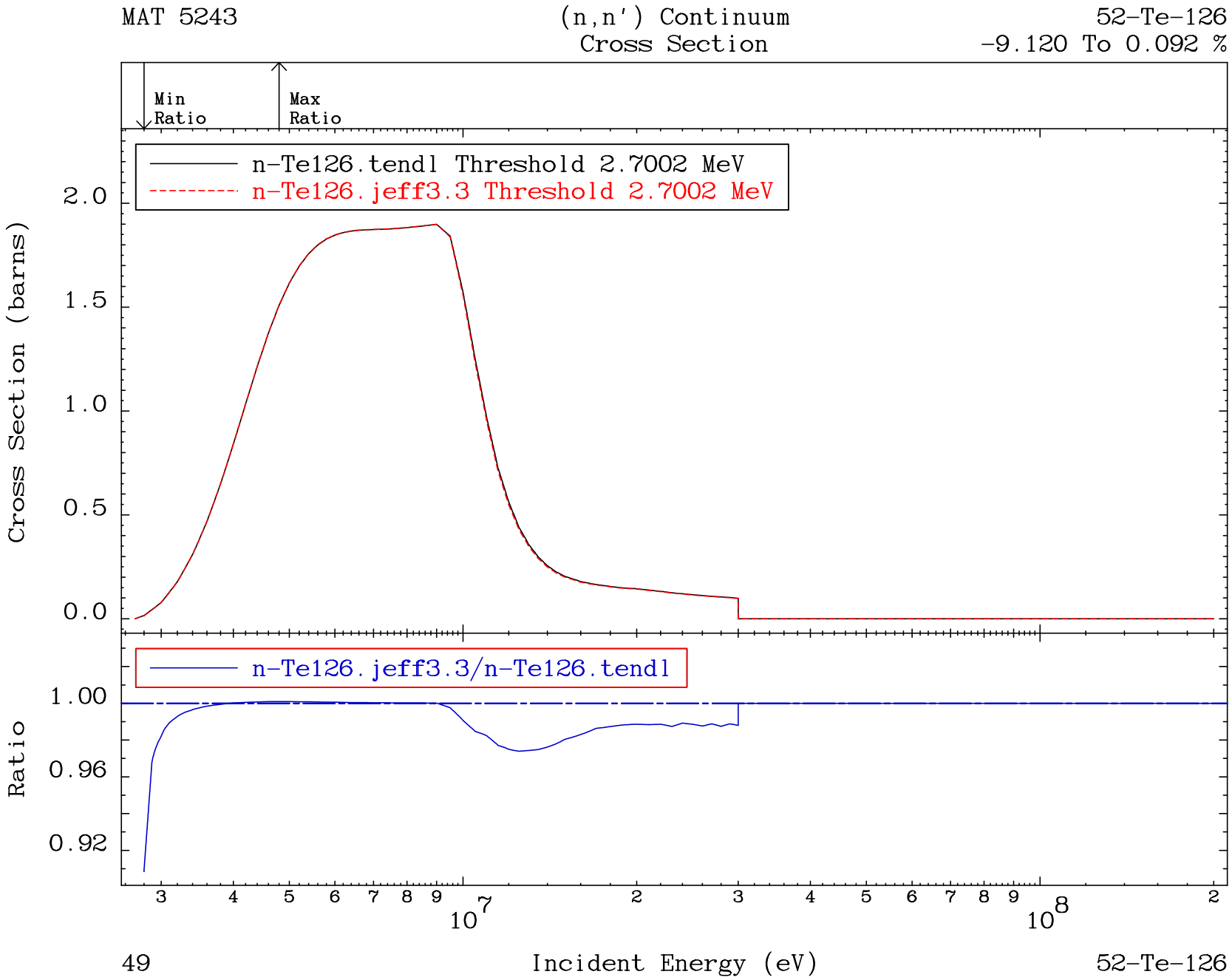

MAT 5243
MT= 76 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.385 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.6062 MeV
n-Te126.jeff3.3 Threshold 2.6062 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
52-Te-126

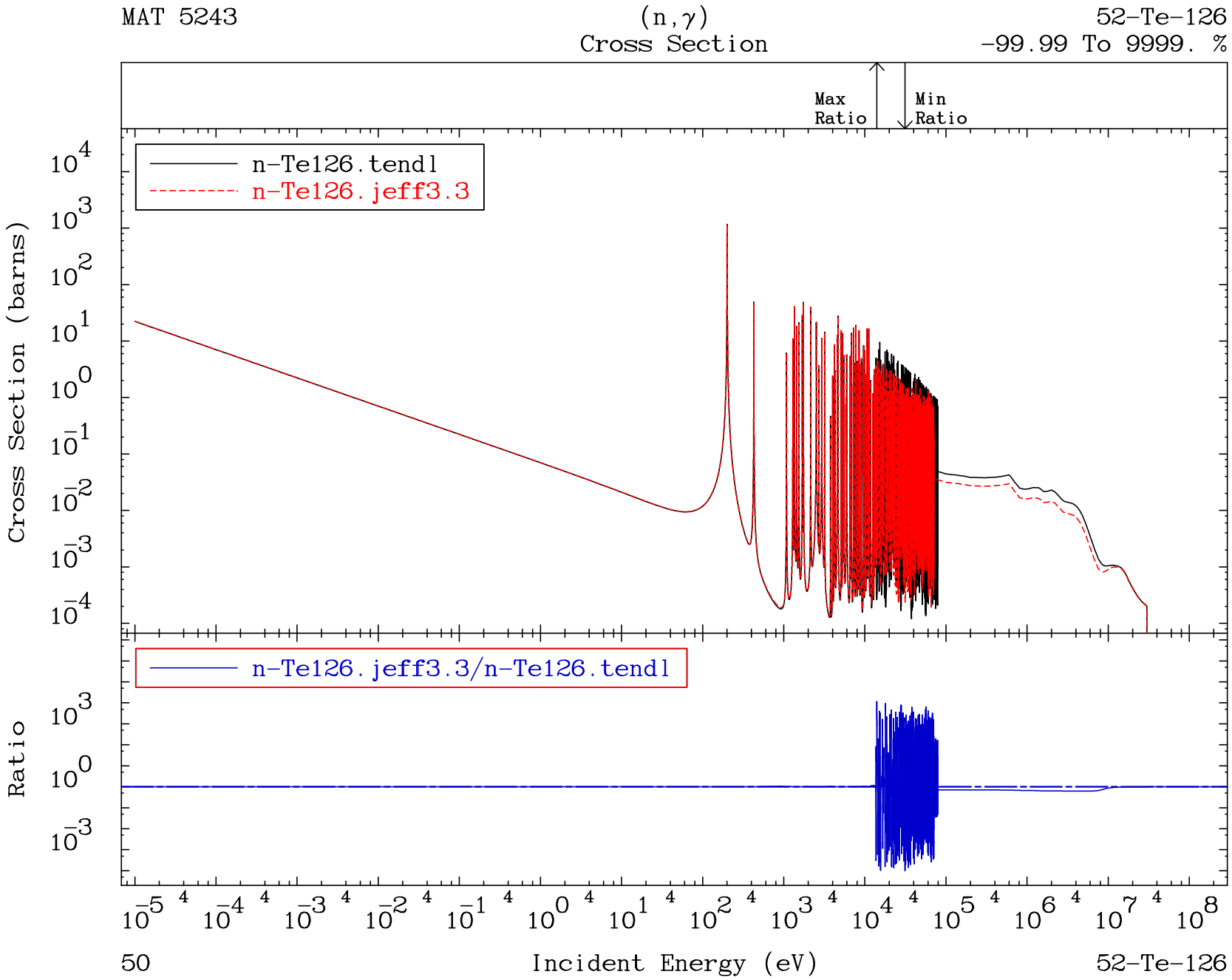

MAT 5243
MT= 77 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.312 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.6096 MeV
n-Te126.jeff3.3 Threshold 2.6096 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
45
Incident Energy (eV)
52-Te-126

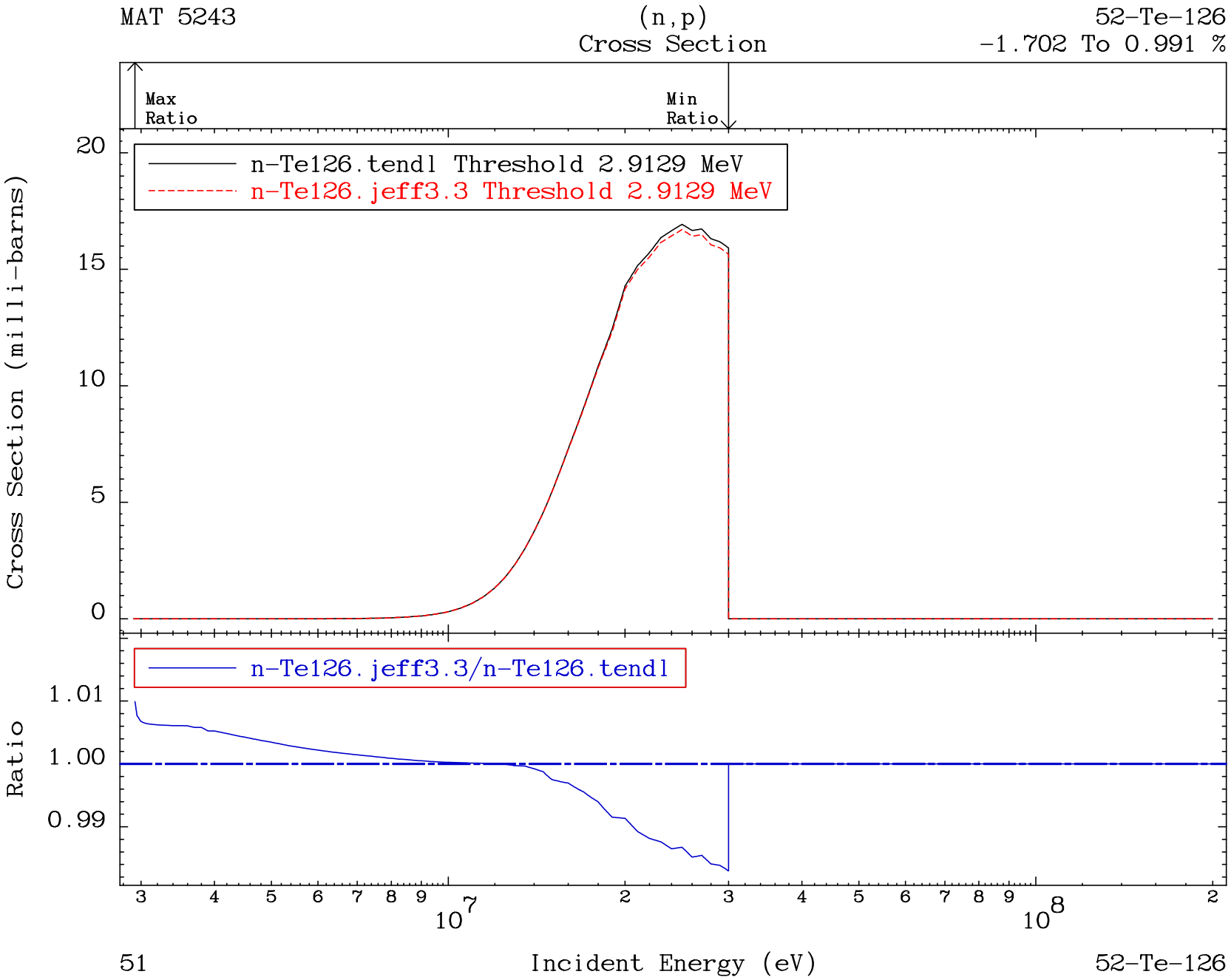

MAT 5243
MT= 78 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.627 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.6616 MeV
n-Te126.jeff3.3 Threshold 2.6616 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
46
Incident Energy (eV)
52-Te-126

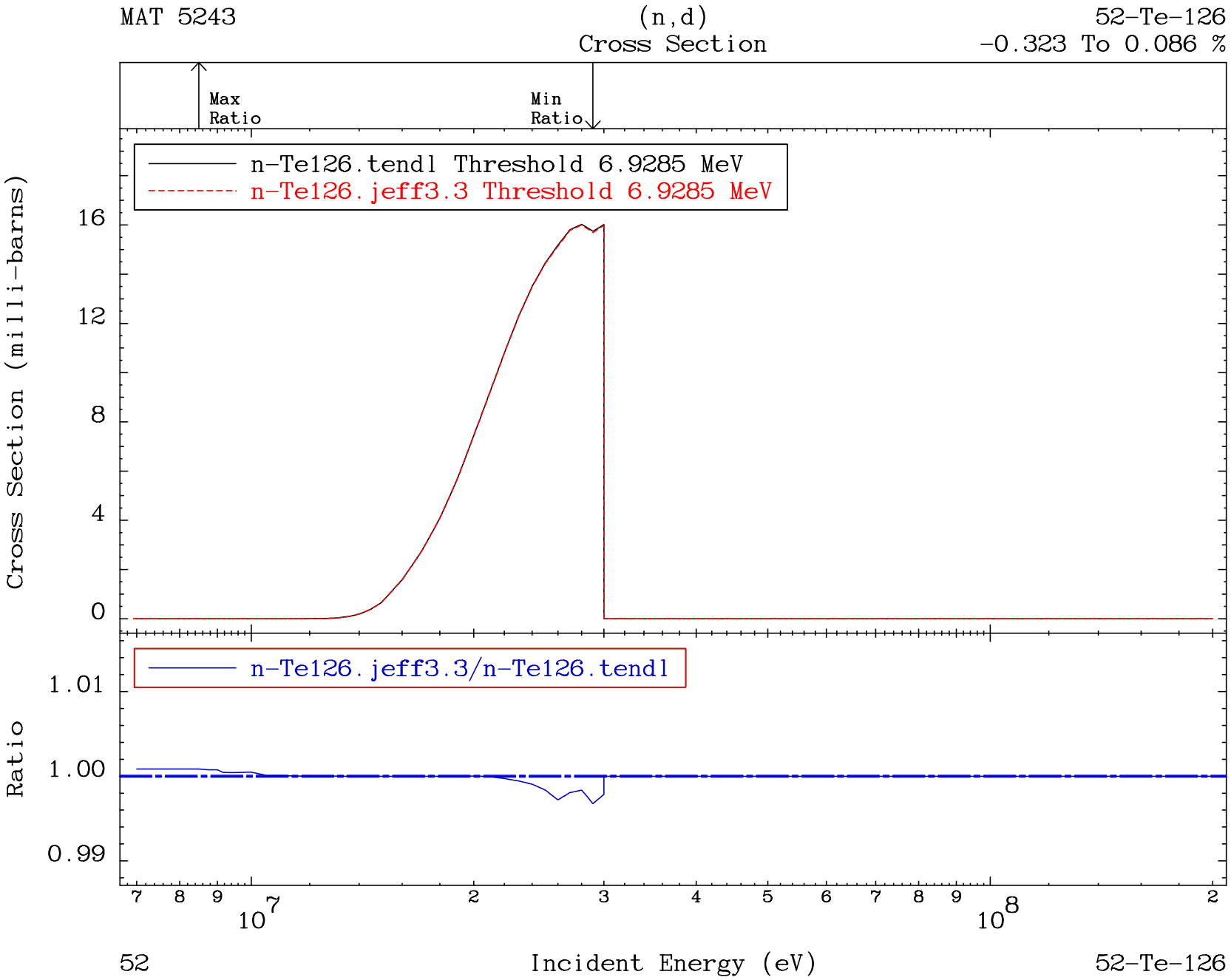

MAT 5243
MT= 79 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.611 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.6828 MeV
n-Te126.jeff3.3 Threshold 2.6828 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
47
Incident Energy (eV)
52-Te-126

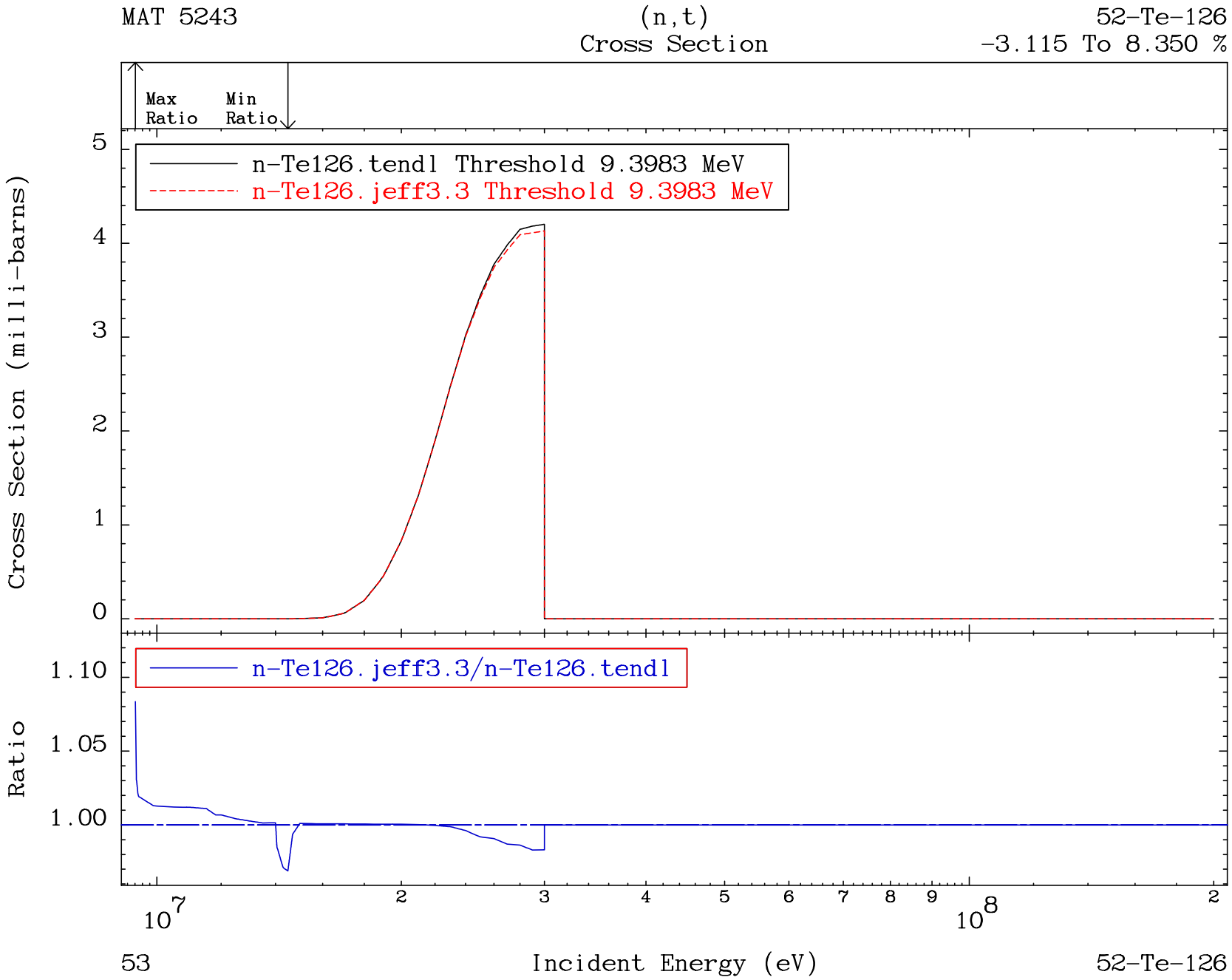

MAT 5243
MT= 80 (n,n') Level
Cross Section
52-Te-126
0.000 To 0.335 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.7002 MeV
n-Te126.jeff3.3 Threshold 2.7002 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
48
Incident Energy (eV)
52-Te-126

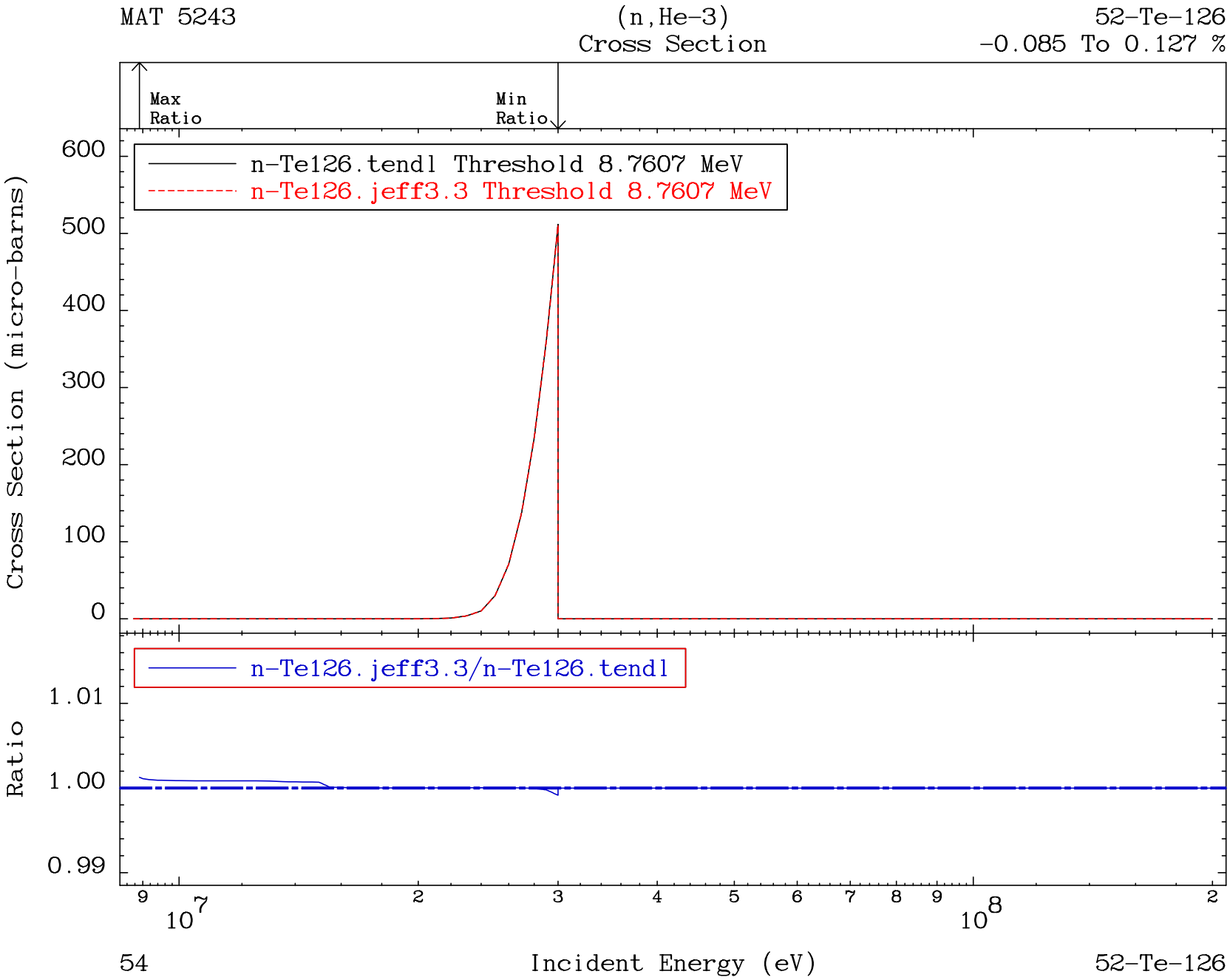

MAT 5243
(n,n') Continuum
Cross Section
52-Te-126
-9.120 To 0.092 %
Min Ratio
Max Ratio
n-Te126.tendl Threshold 2.7002 MeV
n-Te126.jeff3.3 Threshold 2.7002 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.00
0.96
0.92
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
49
Incident Energy (eV)
52-Te-126

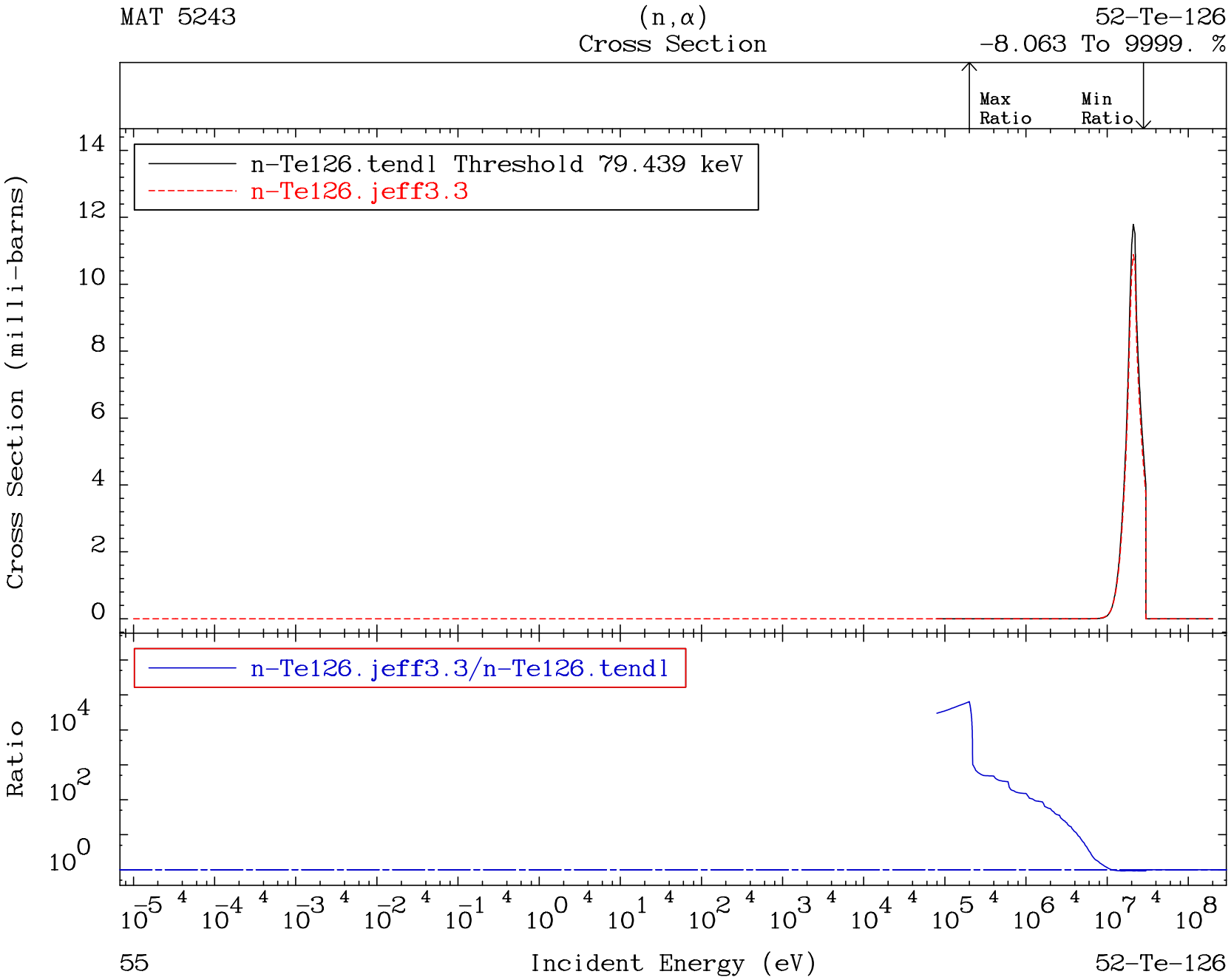

MAT 5243
(n,γ)
Cross Section
52-Te-126
-99.99 To 9999. %
Max Ratio
Min Ratio
n-Te126.tendl
n-Te126.jeff3.3
Cross Section (barns)
n-Te126.jeff3.3/n-Te126.tendl
Ratio
Incident Energy (eV)
50
52-Te-126

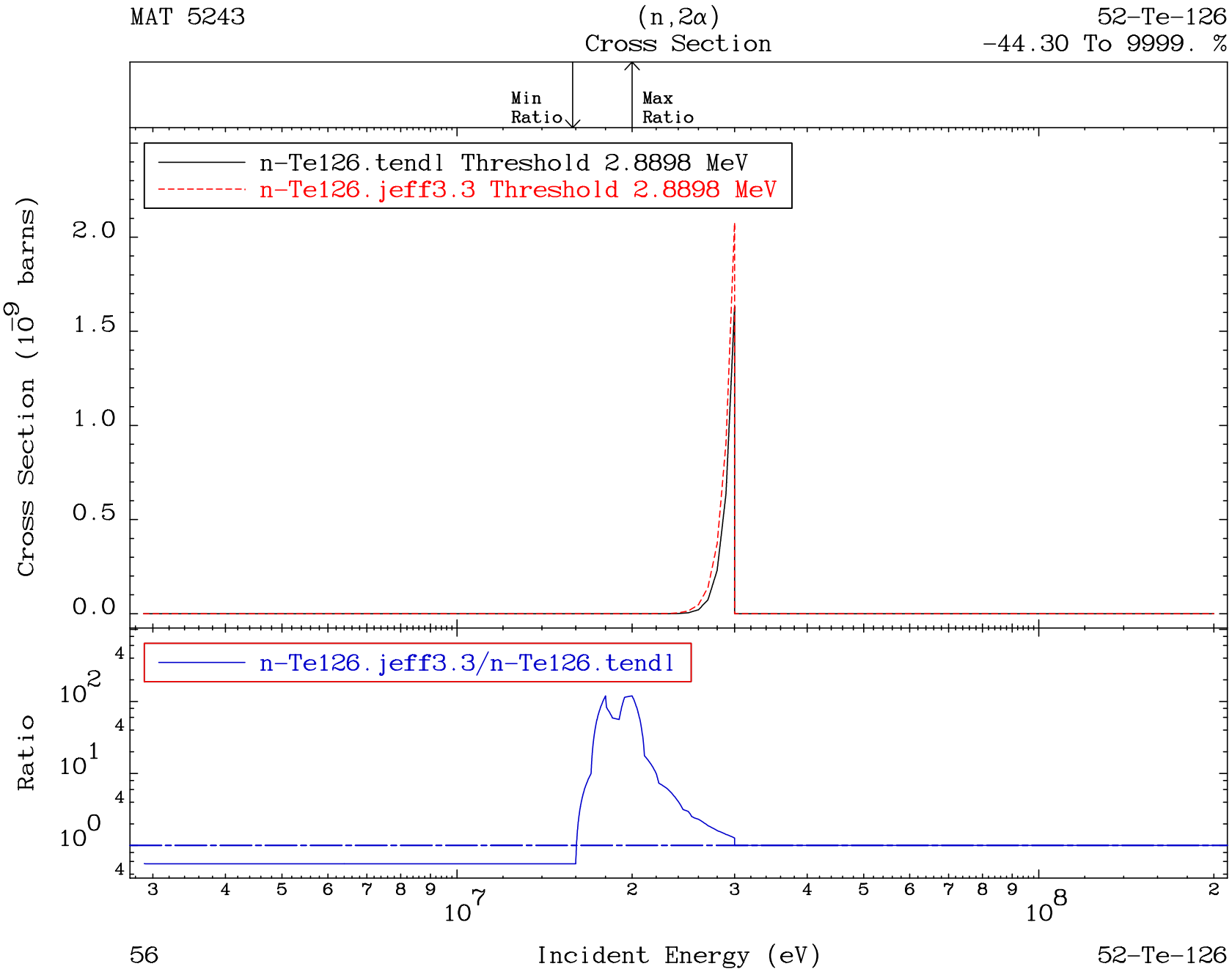

MAT 5243
(n,p)
Cross Section
52-Te-126
-1.702 To 0.991 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.9129 MeV
n-Te126.jeff3.3 Threshold 2.9129 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
51
Incident Energy (eV)
52-Te-126

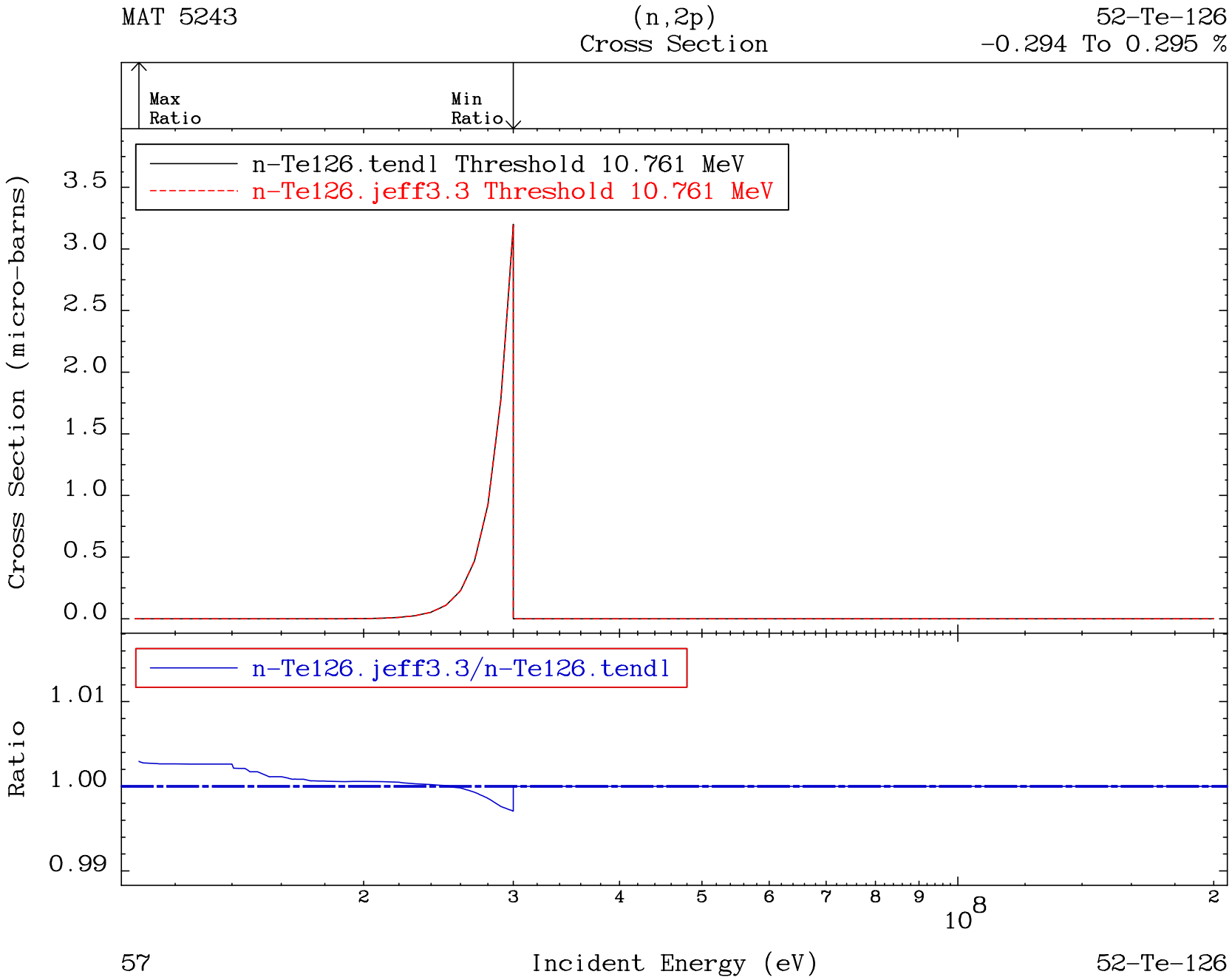

MAT 5243
(n,d)
Cross Section
52-Te-126
-0.323 To 0.086 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 6.9285 MeV
n-Te126.jeff3.3 Threshold 6.9285 MeV
Cross Section (milli-barns)
16
12
8
4
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
0.99
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
52
Incident Energy (eV)
52-Te-126

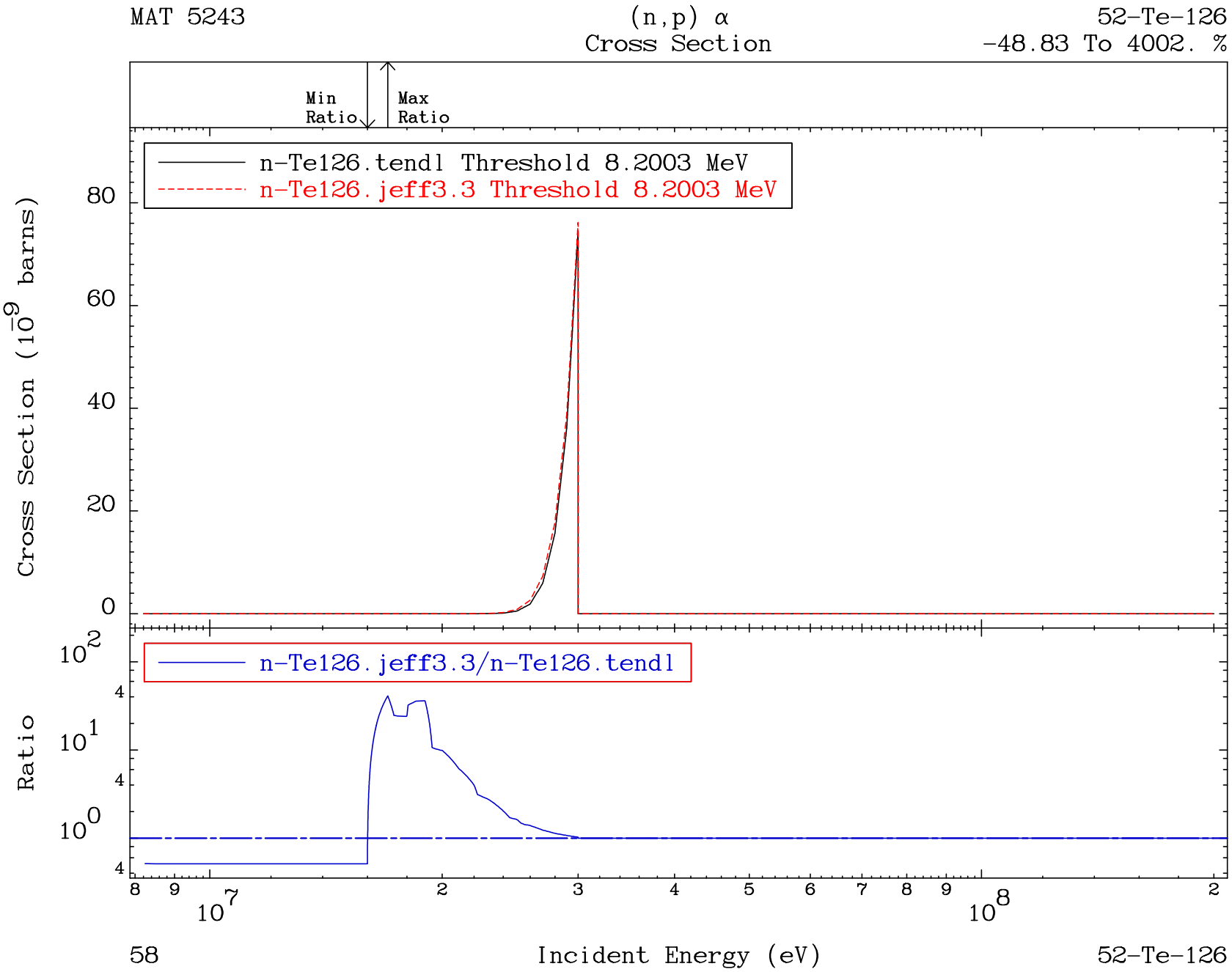

MAT 5243
(n,t)
Cross Section
52-Te-126
-3.115 To 8.350 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 9.3983 MeV
n-Te126.jeff3.3 Threshold 9.3983 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.00
1.05
1.10
10^7
2
3
4
5
6
7
8
9
10^8
2
53
Incident Energy (eV)
52-Te-126

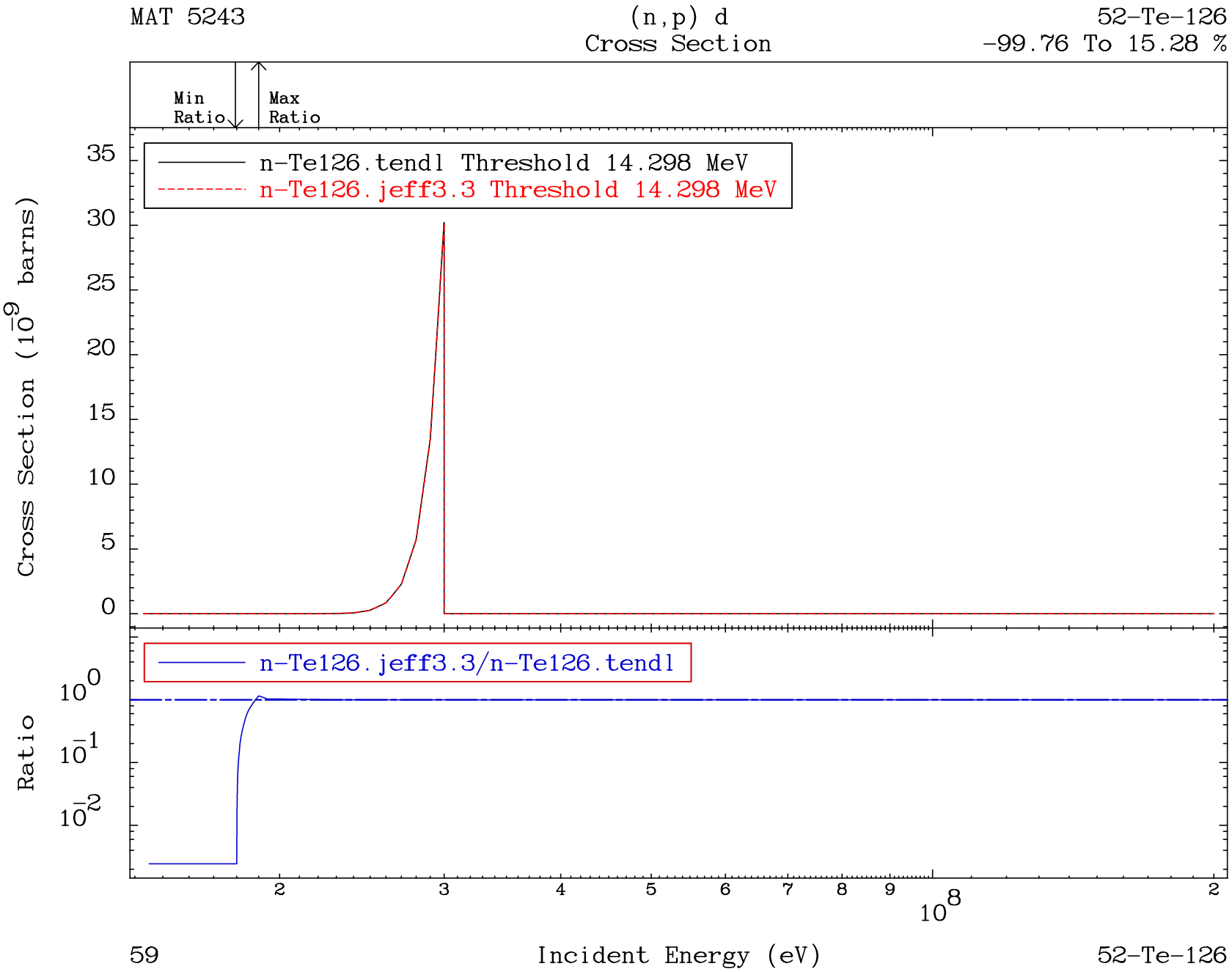

MAT 5243
(n,He-3)
Cross Section
52-Te-126
-0.085 To 0.127 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 8.7607 MeV
n-Te126.jeff3.3 Threshold 8.7607 MeV
Cross Section (micro-barns)
600
500
400
300
200
100
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
0.99
9
10^7
2
3
4
5
6
7
8
9
10^8
2
54
Incident Energy (eV)
52-Te-126

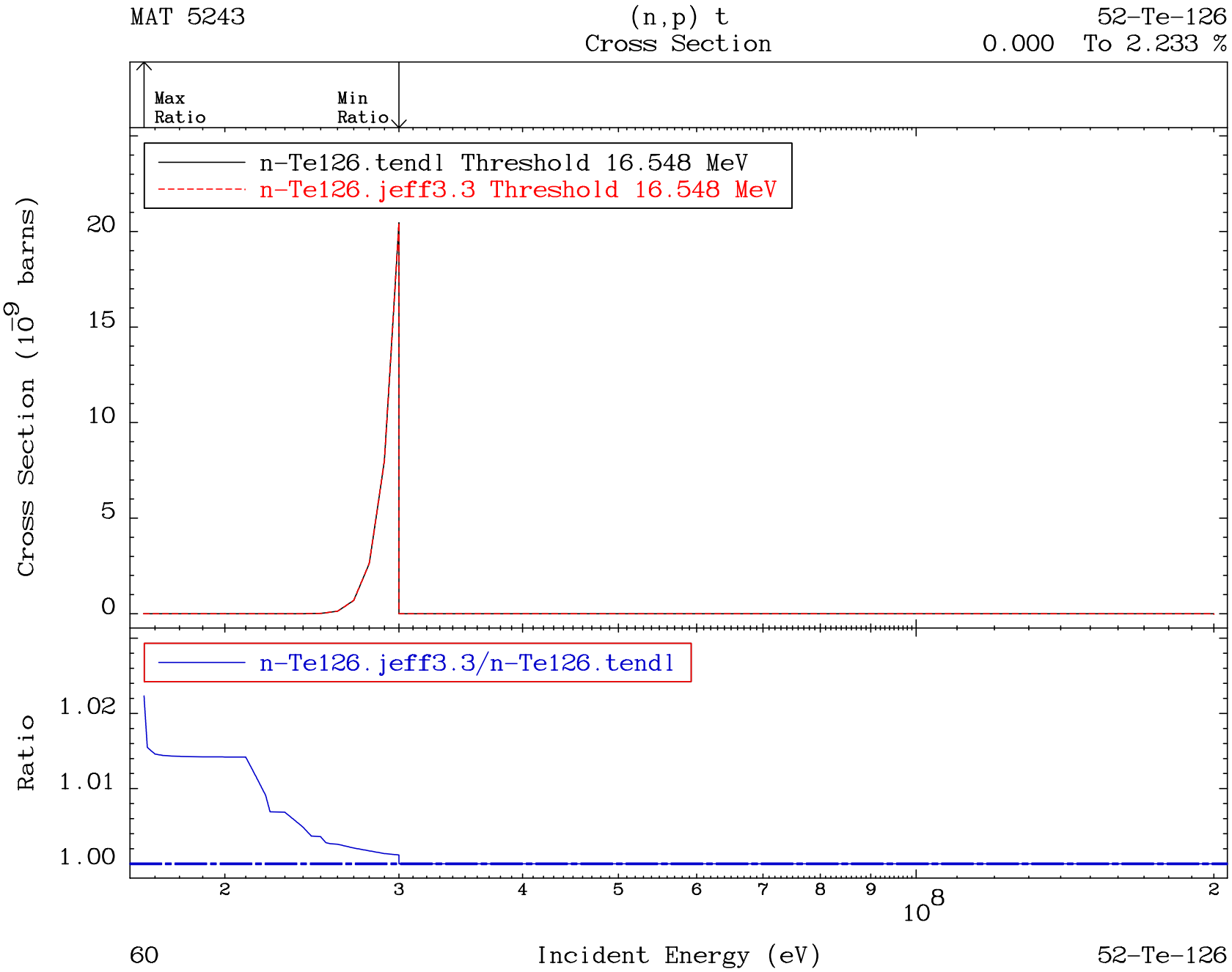

MAT 5243
(n,α)
Cross Section
52-Te-126
-8.063 To 9999. %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 79.439 keV
n-Te126.jeff3.3
Cross Section (milli-barns)
n-Te126.jeff3.3/n-Te126.tendl
Ratio
Incident Energy (eV)
55
52-Te-126

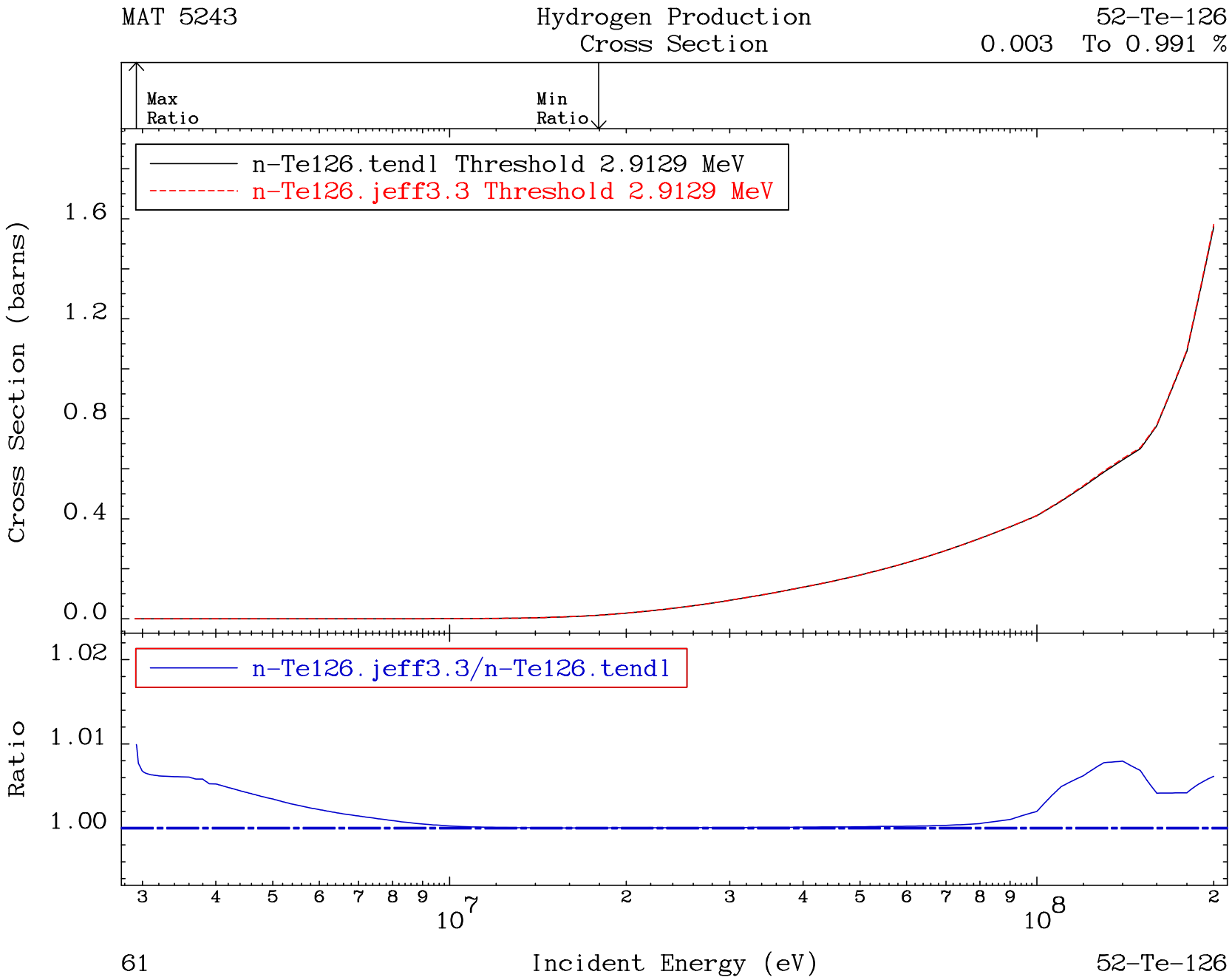

MAT 5243
(n,2α)
Cross Section
52-Te-126
-44.30 To 9999. %
Min Ratio
Max Ratio
n-Te126.tendl Threshold 2.8898 MeV
n-Te126.jeff3.3 Threshold 2.8898 MeV
Cross Section (10^-9 barns)
2.0
1.5
1.0
0.5
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
10^2
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
56
Incident Energy (eV)
52-Te-126

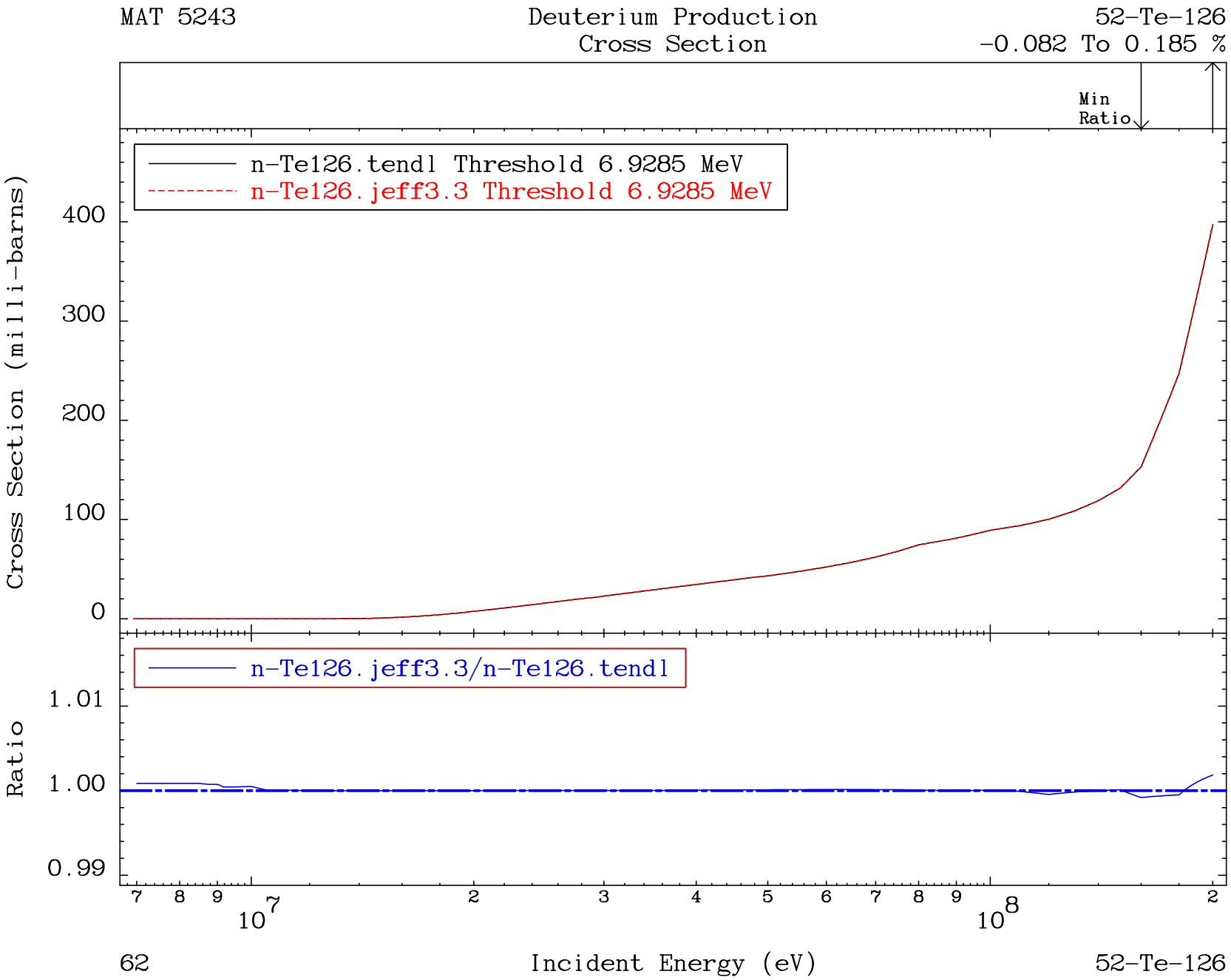

MAT 5243
(n,2p)
Cross Section
52-Te-126
-0.294 To 0.295 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 10.761 MeV
n-Te126.jeff3.3 Threshold 10.761 MeV
Cross Section (micro-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
57
Incident Energy (eV)
52-Te-126

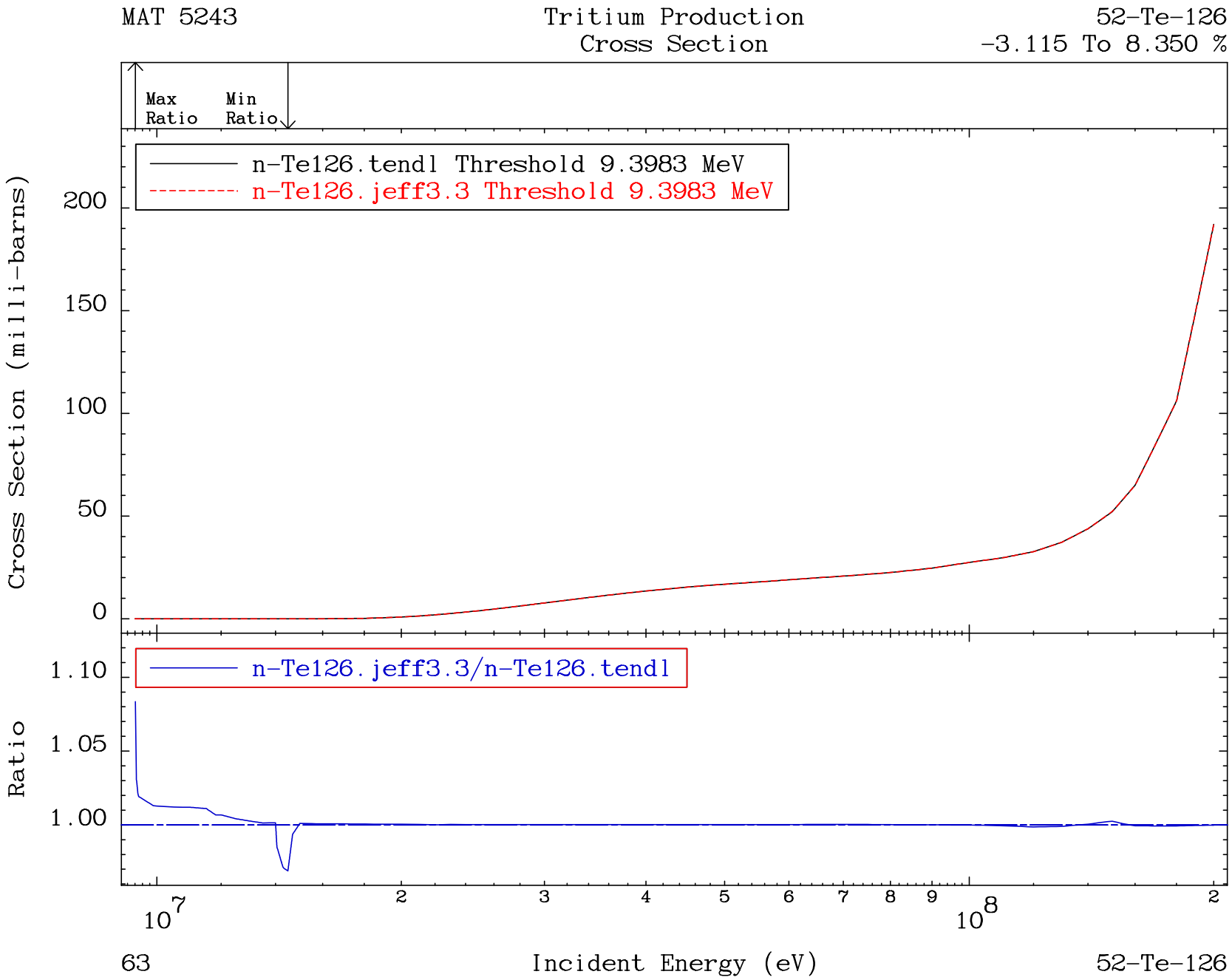

MAT 5243
(n,p) α
Cross Section
52-Te-126
-48.83 To 4002. %
Min Ratio
Max Ratio
n-Te126.tendl Threshold 8.2003 MeV
n-Te126.jeff3.3 Threshold 8.2003 MeV
Cross Section (10^-9 barns)
0
20
40
60
80
n-Te126.jeff3.3/n-Te126.tendl
Ratio
10^2
10^1
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
58
Incident Energy (eV)
52-Te-126

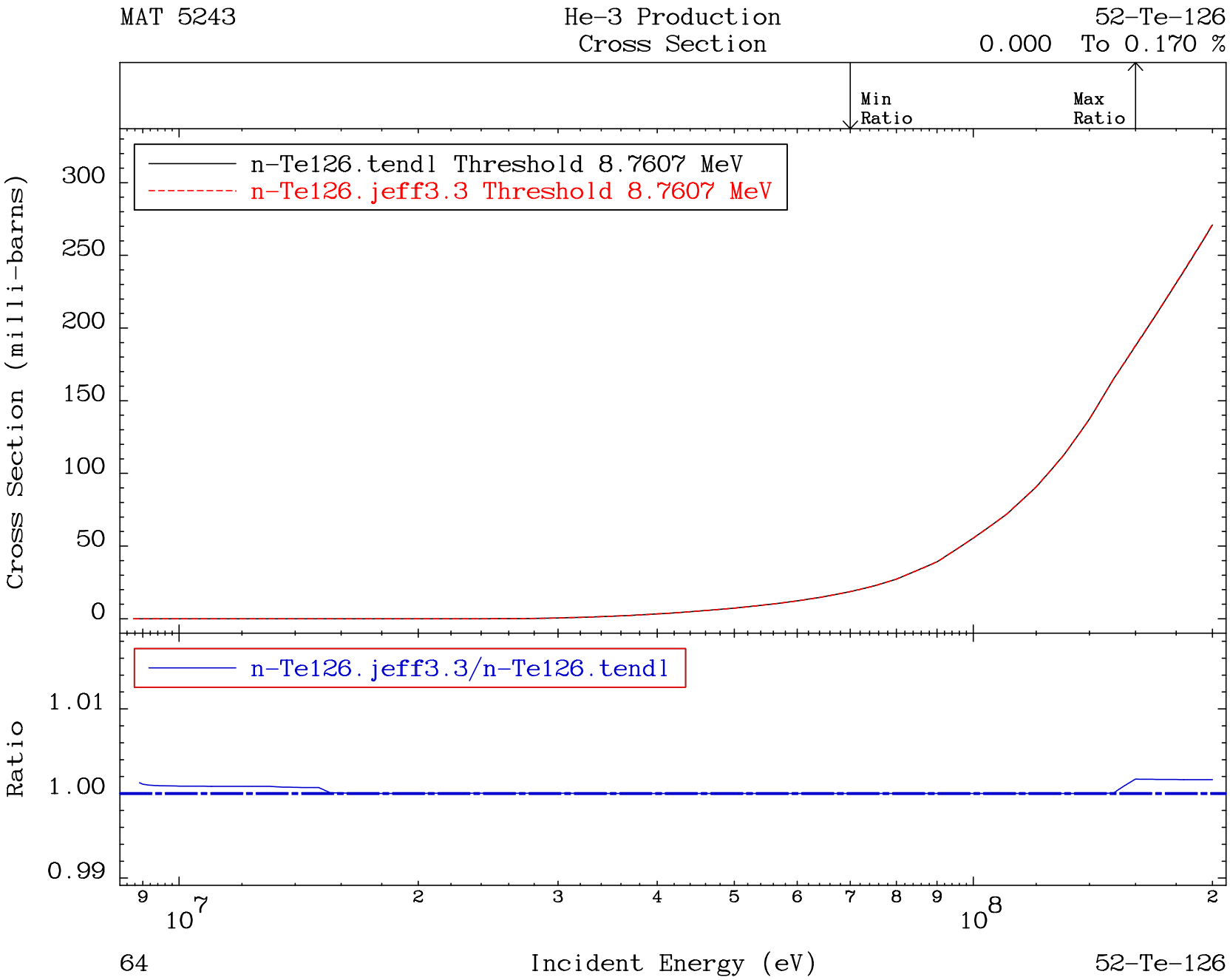

MAT 5243
(n,p) d
Cross Section
52-Te-126
-99.76 To 15.28 %
Min Ratio
Max Ratio
n-Te126.tendl Threshold 14.298 MeV
n-Te126.jeff3.3 Threshold 14.298 MeV
Cross Section (10^{-9} barns)
35
30
25
20
15
10
5
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
10^{0}
10^{-1}
10^{-2}
2
3
4
5
6
7
8
9
10^{8}
2
59
Incident Energy (eV)
52-Te-126

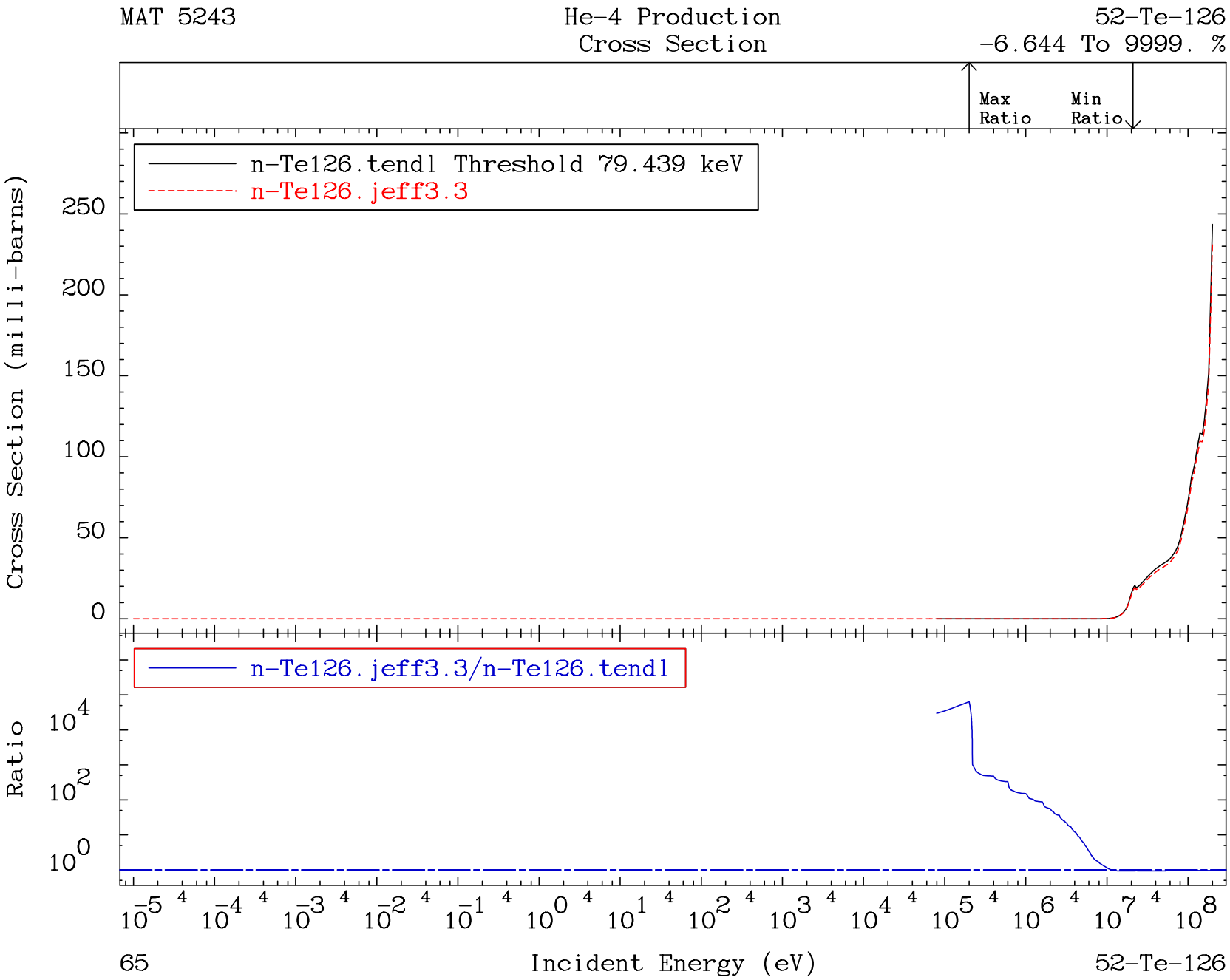

MAT 5243
(n,p) t
Cross Section
52-Te-126
0.000 To 2.233 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 16.548 MeV
n-Te126.jeff3.3 Threshold 16.548 MeV
Cross Section (10^{-9} barns)
20
15
10
5
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^{8}
2
60
Incident Energy (eV)
52-Te-126

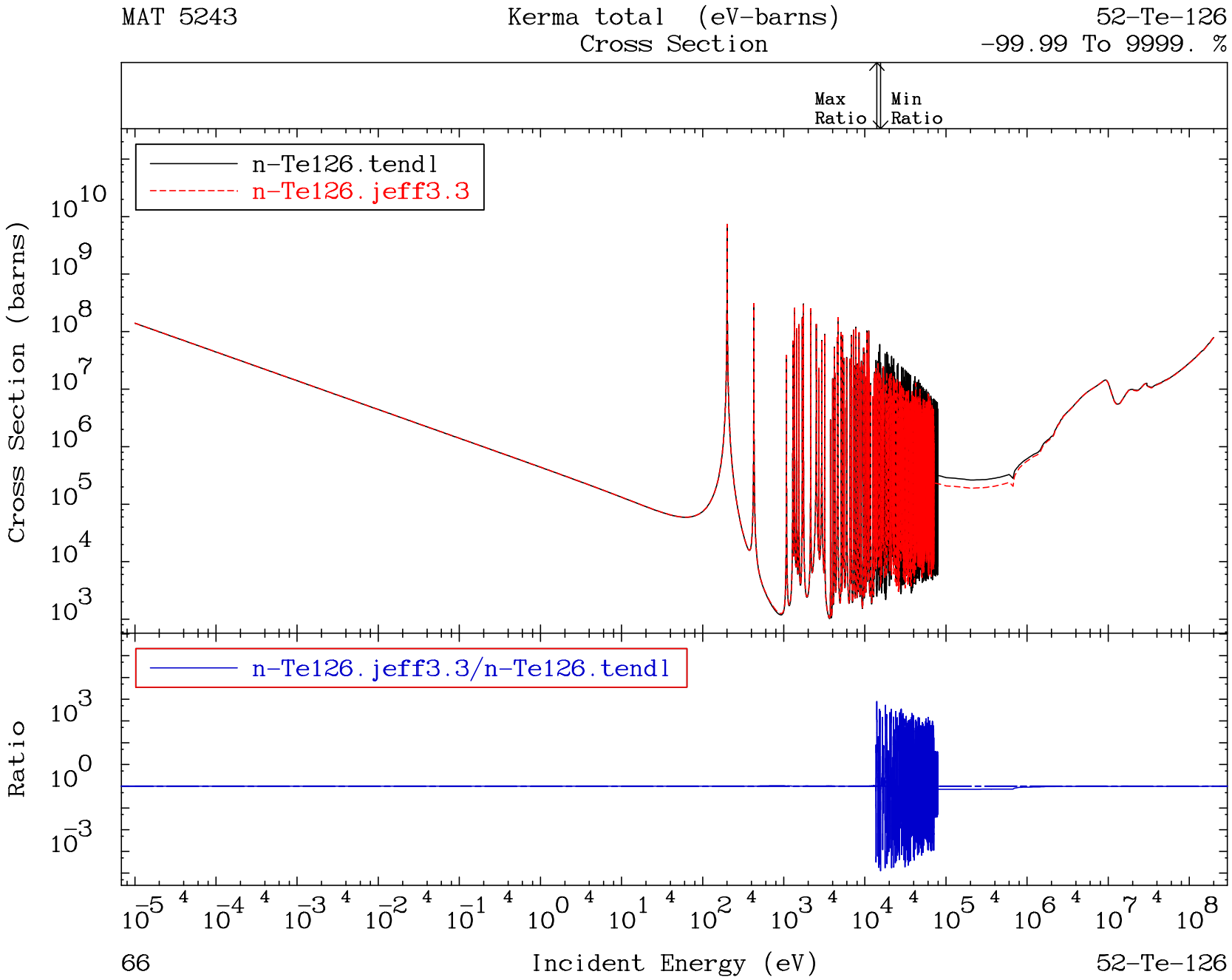

MAT 5243
Hydrogen Production
Cross Section
52-Te-126
0.003 To 0.991 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.9129 MeV
n-Te126.jeff3.3 Threshold 2.9129 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
61
Incident Energy (eV)
52-Te-126

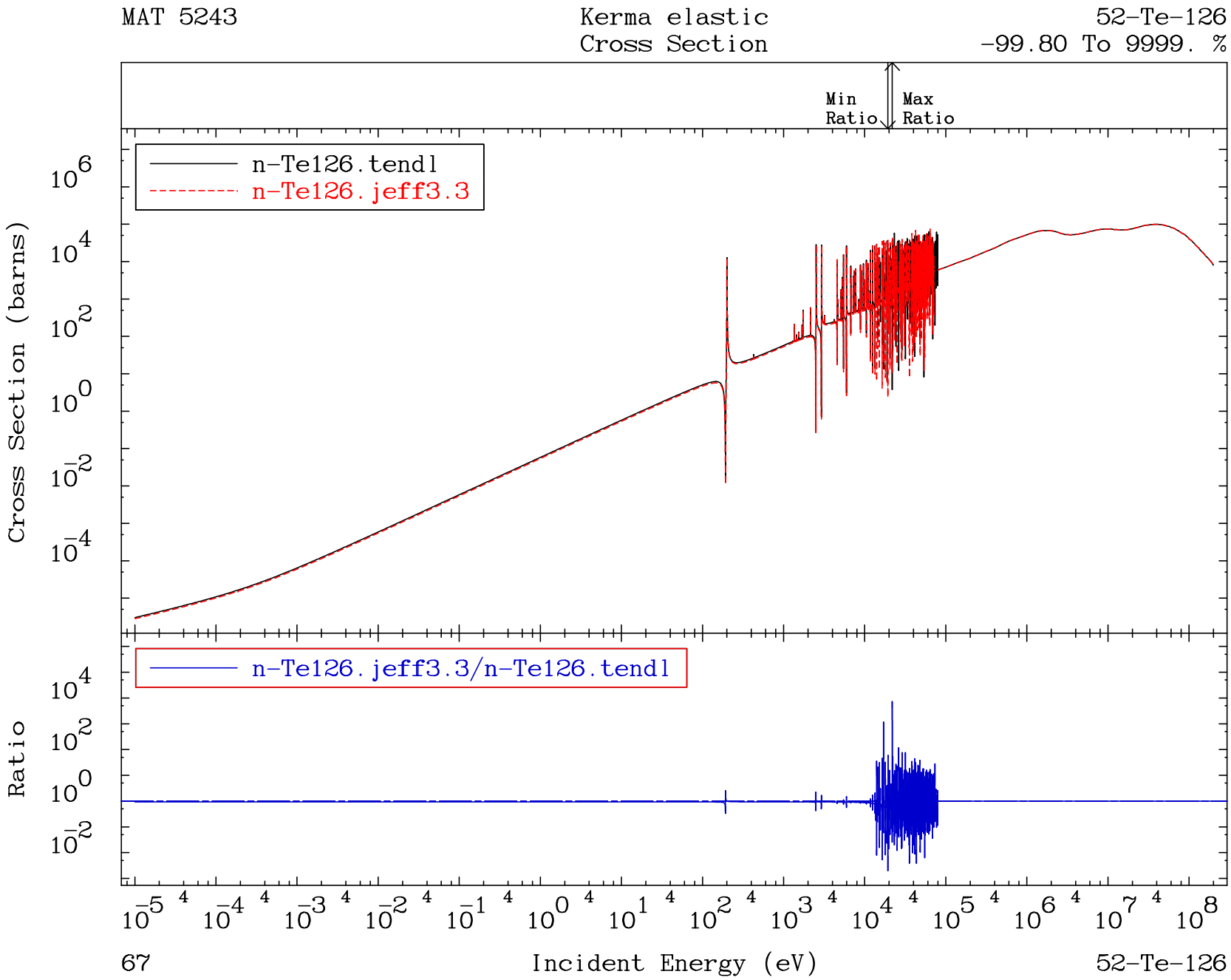

MAT 5243
Deuterium Production
Cross Section
52-Te-126
-0.082 To 0.185 %
Min
Ratio
n-Te126.tendl Threshold 6.9285 MeV
n-Te126.jeff3.3 Threshold 6.9285 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
0.99
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
62
Incident Energy (eV)
52-Te-126

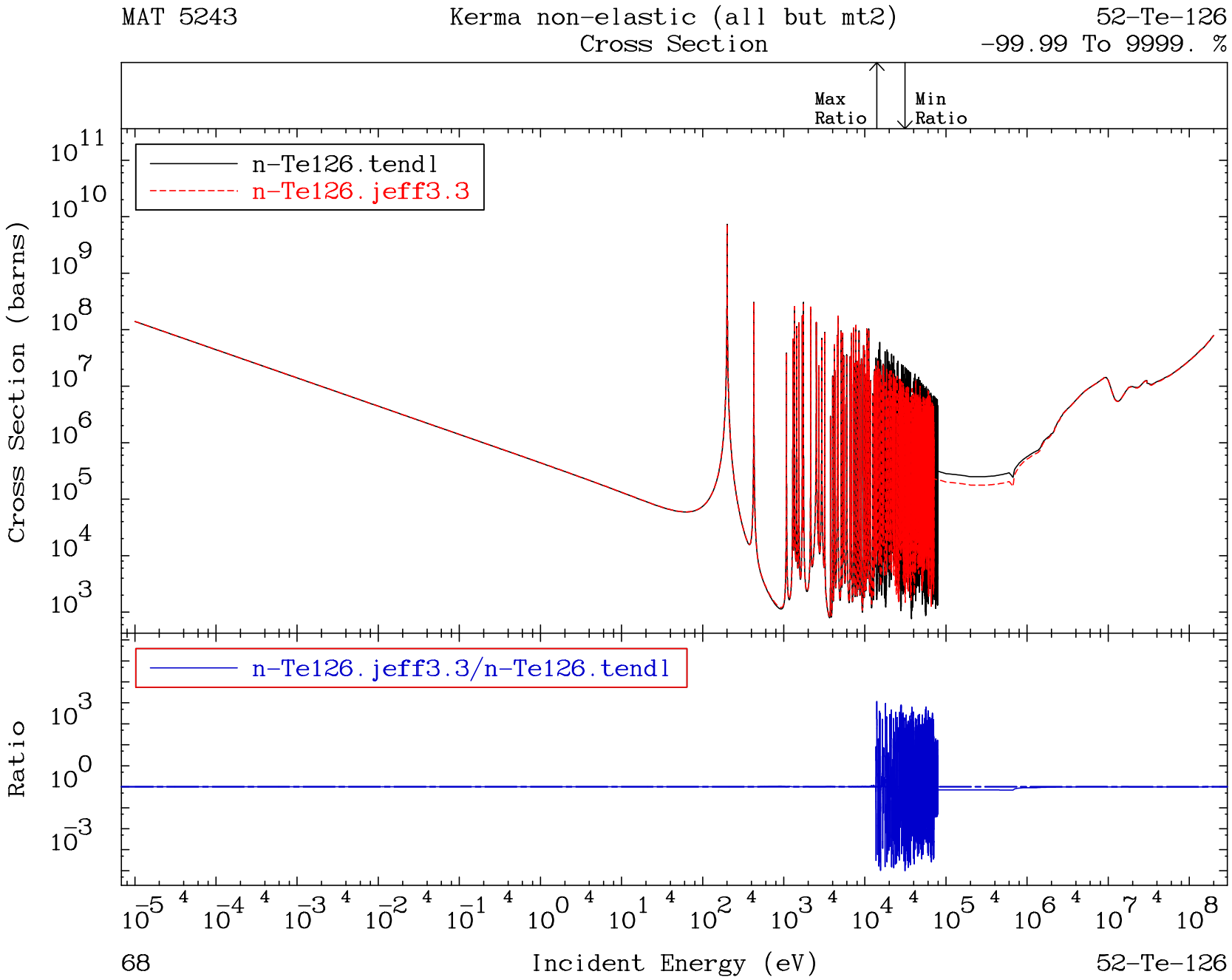

MAT 5243
Tritium Production
Cross Section
52-Te-126
-3.115 To 8.350 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 9.3983 MeV
n-Te126.jeff3.3 Threshold 9.3983 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.10
1.05
1.00
10^7
2
3
4
5
6
7
8
9
10^8
2
63
Incident Energy (eV)
52-Te-126

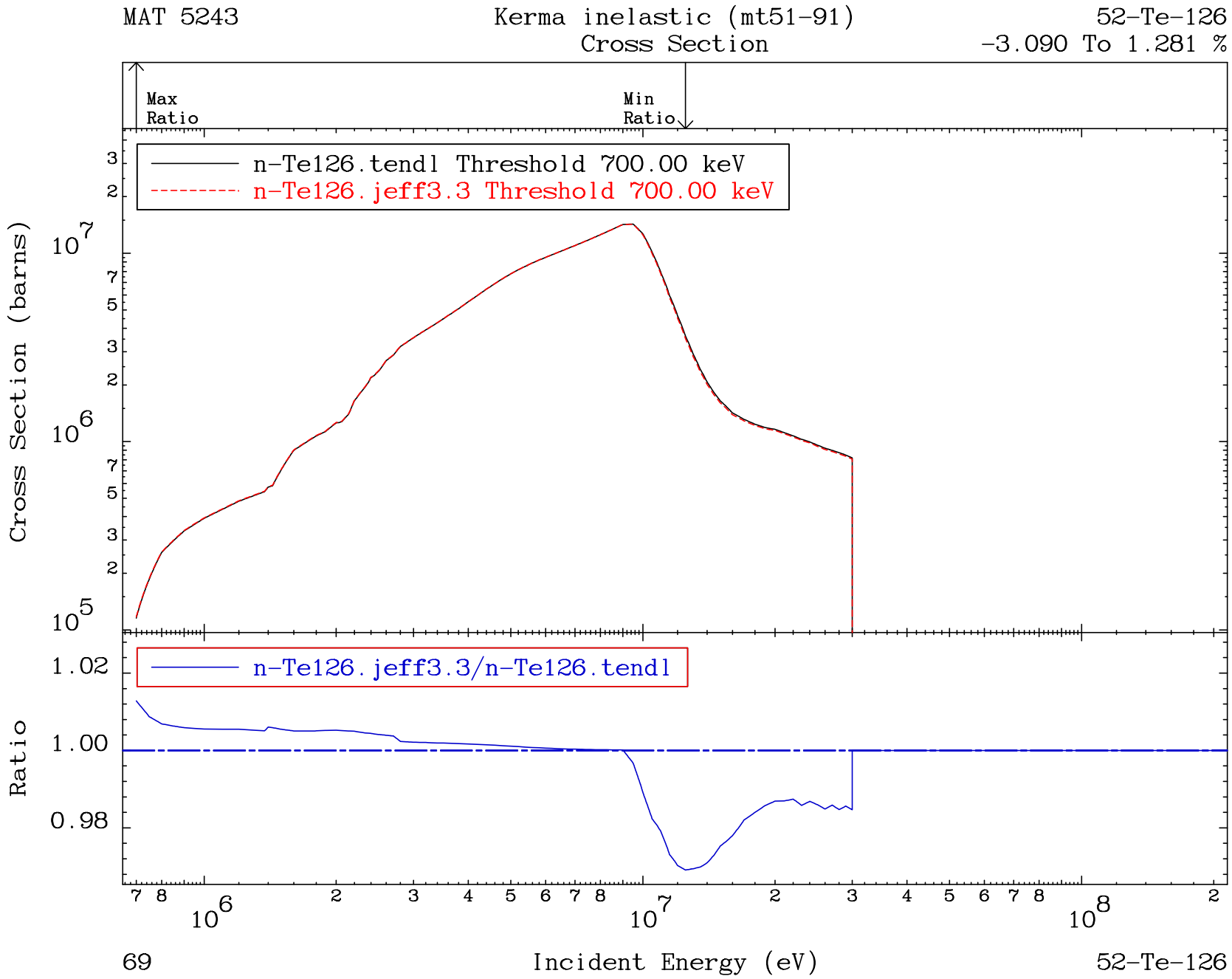

MAT 5243
He-3 Production
Cross Section
52-Te-126
0.000 To 0.170 %
Min Ratio
Max Ratio
n-Te126.tendl Threshold 8.7607 MeV
n-Te126.jeff3.3 Threshold 8.7607 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
0.99
9
10^7
2
3
4
5
6
7
8
9
10^8
2
64
Incident Energy (eV)
52-Te-126

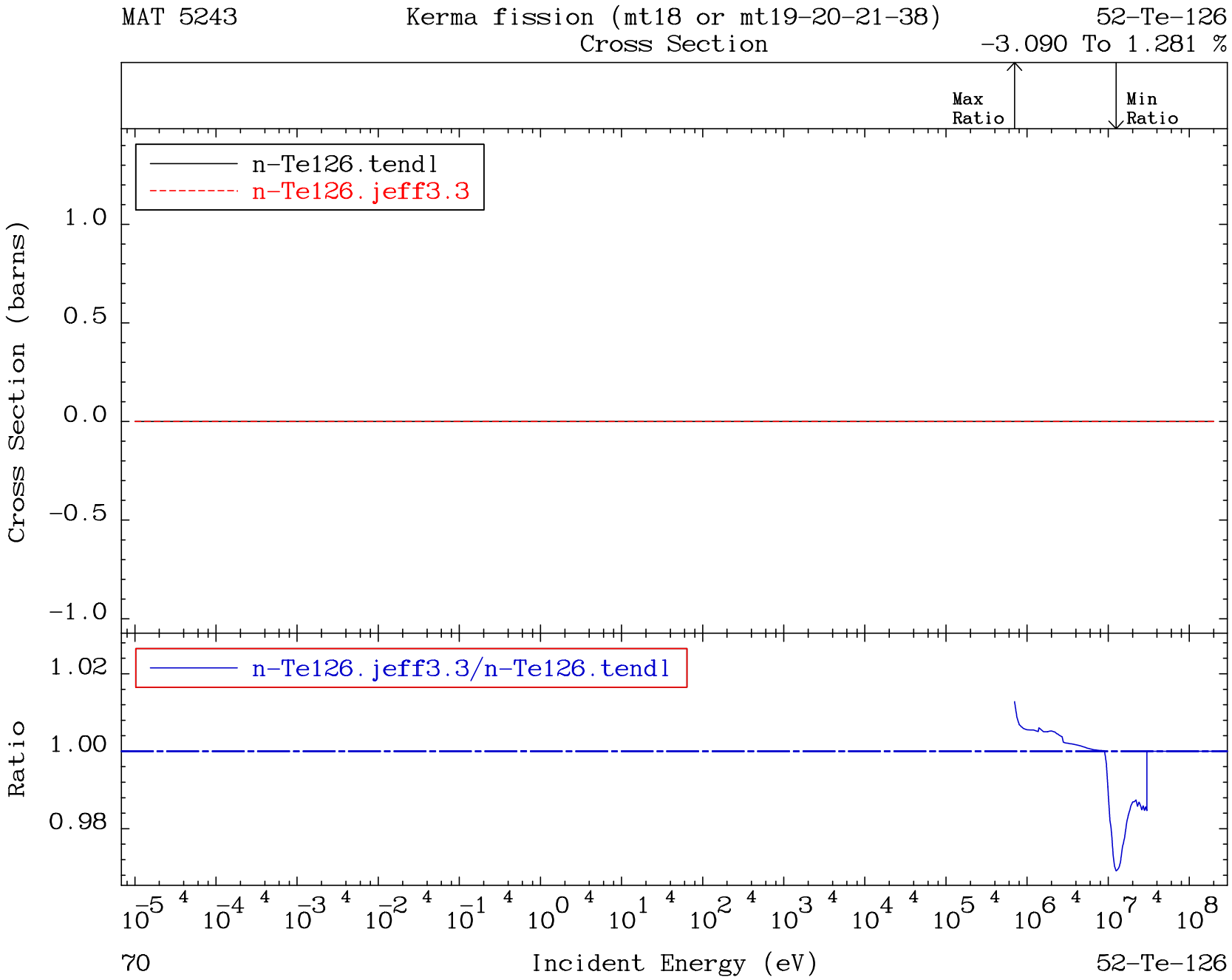

MAT 5243
He-4 Production
Cross Section
52-Te-126
-6.644 To 9999. %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 79.439 keV
n-Te126.jeff3.3
Cross Section (milli-barns)
250
200
150
100
50
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
10^4
10^2
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
65
Incident Energy (eV)
52-Te-126

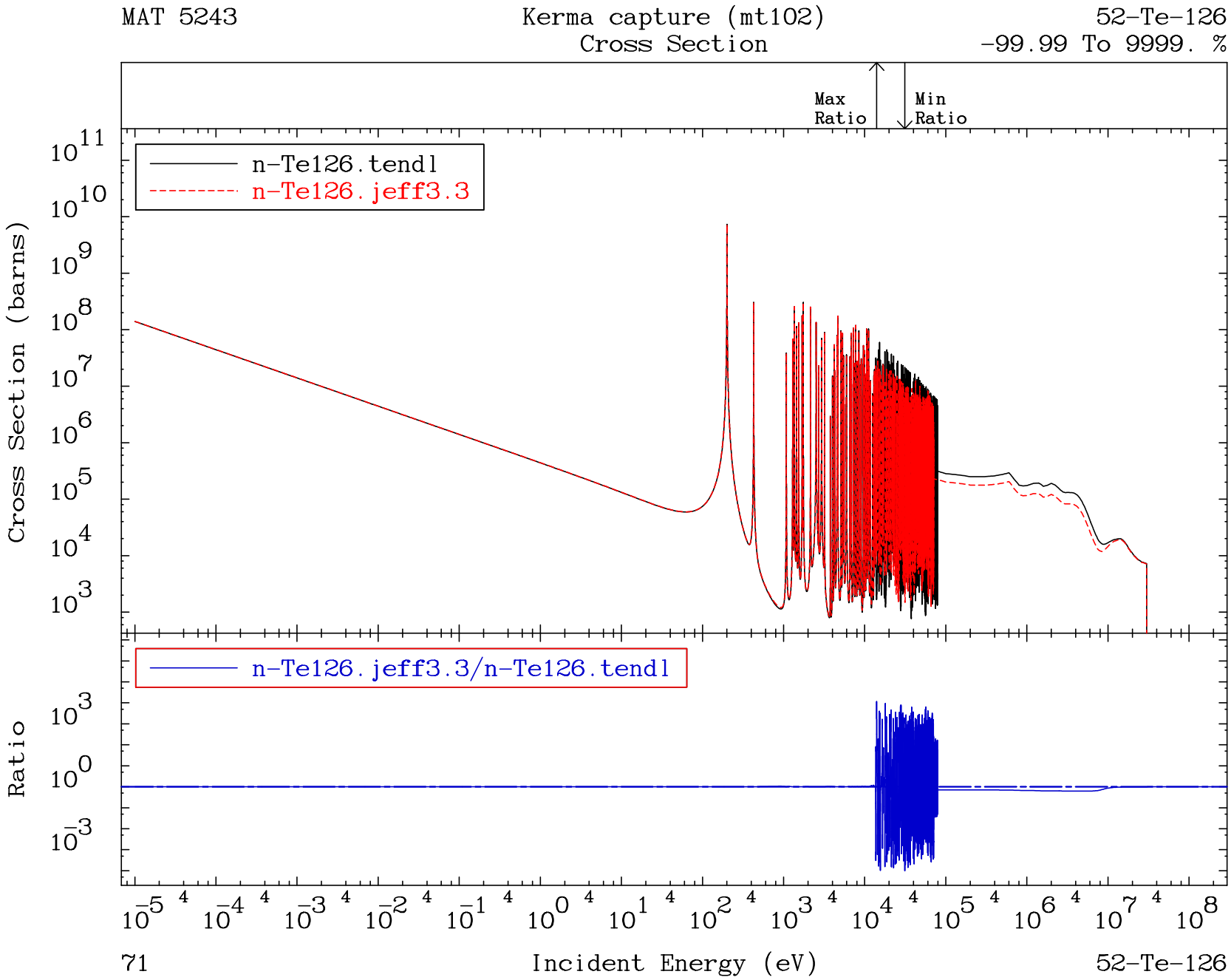

MAT 5243
Kerma total (eV-barns)
Cross Section
52-Te-126
-99.99 To 9999. %
Max Ratio
Min Ratio
n-Te126.tendl
n-Te126.jeff3.3
Cross Section (barns)
n-Te126.jeff3.3/n-Te126.tendl
Ratio
Incident Energy (eV)
66
52-Te-126

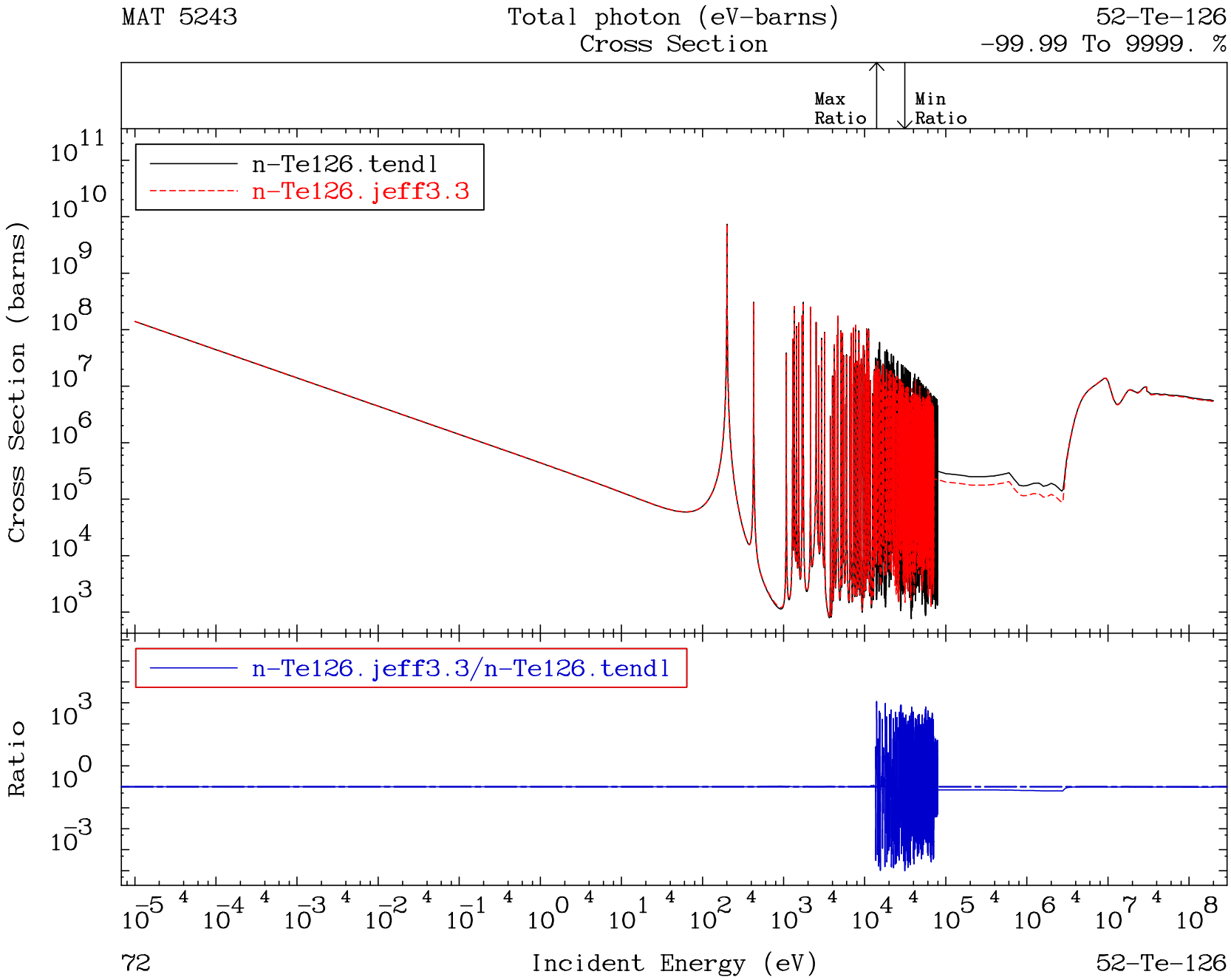

MAT 5243
Kerma elastic
Cross Section
52-Te-126
-99.80 To 9999. %
Min Ratio
Max Ratio
n-Te126.tendl
n-Te126.jeff3.3
Cross Section (barns)
n-Te126.jeff3.3/n-Te126.tendl
Ratio
Incident Energy (eV)
67
52-Te-126

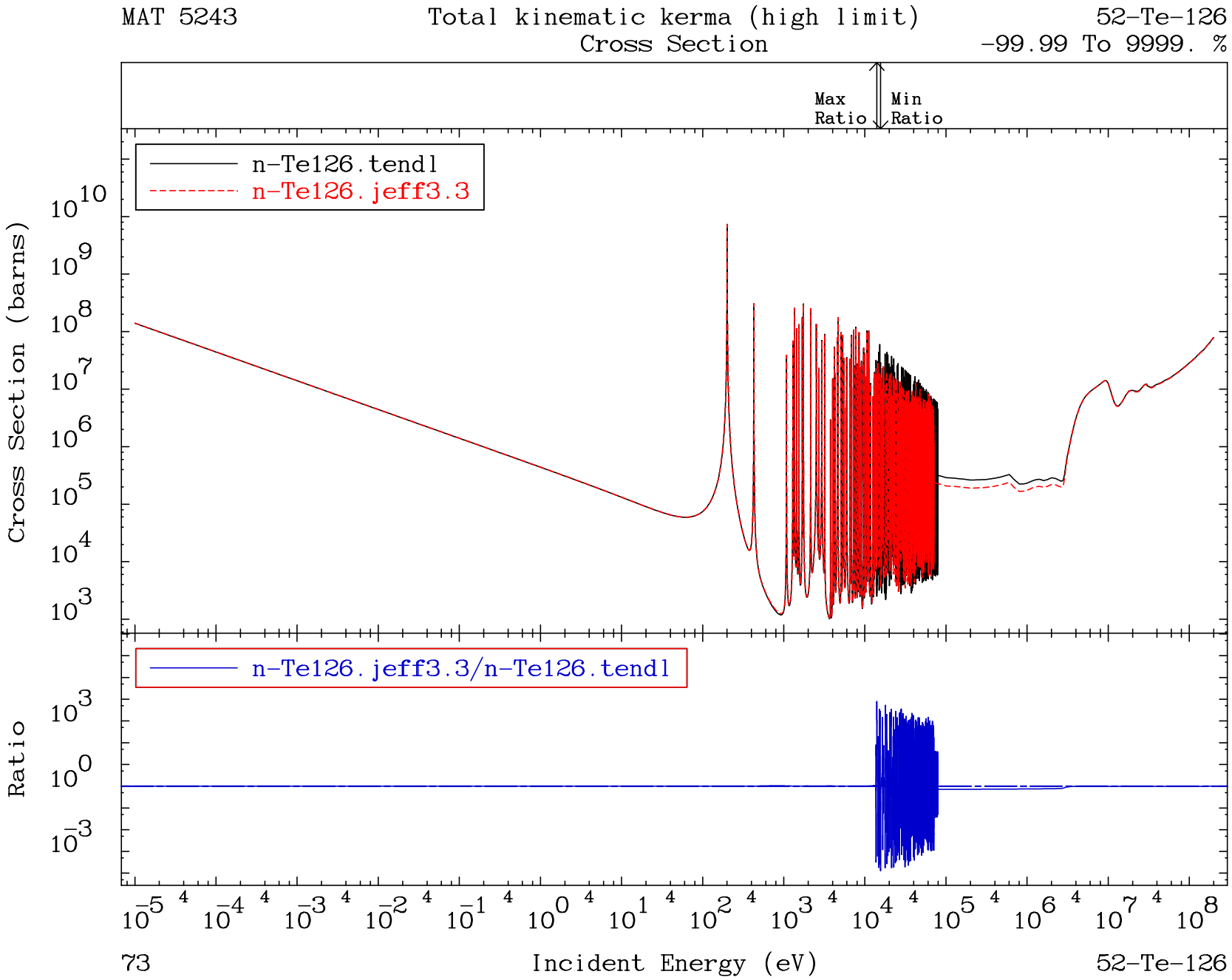

MAT 5243
Kerma non-elastic (all but mt2)
Cross Section
52-Te-126
-99.99 To 9999. %
Max Ratio
Min Ratio
n-Te126.tendl
n-Te126.jeff3.3
Cross Section (barns)
n-Te126.jeff3.3/n-Te126.tendl
Ratio
Incident Energy (eV)
68
52-Te-126

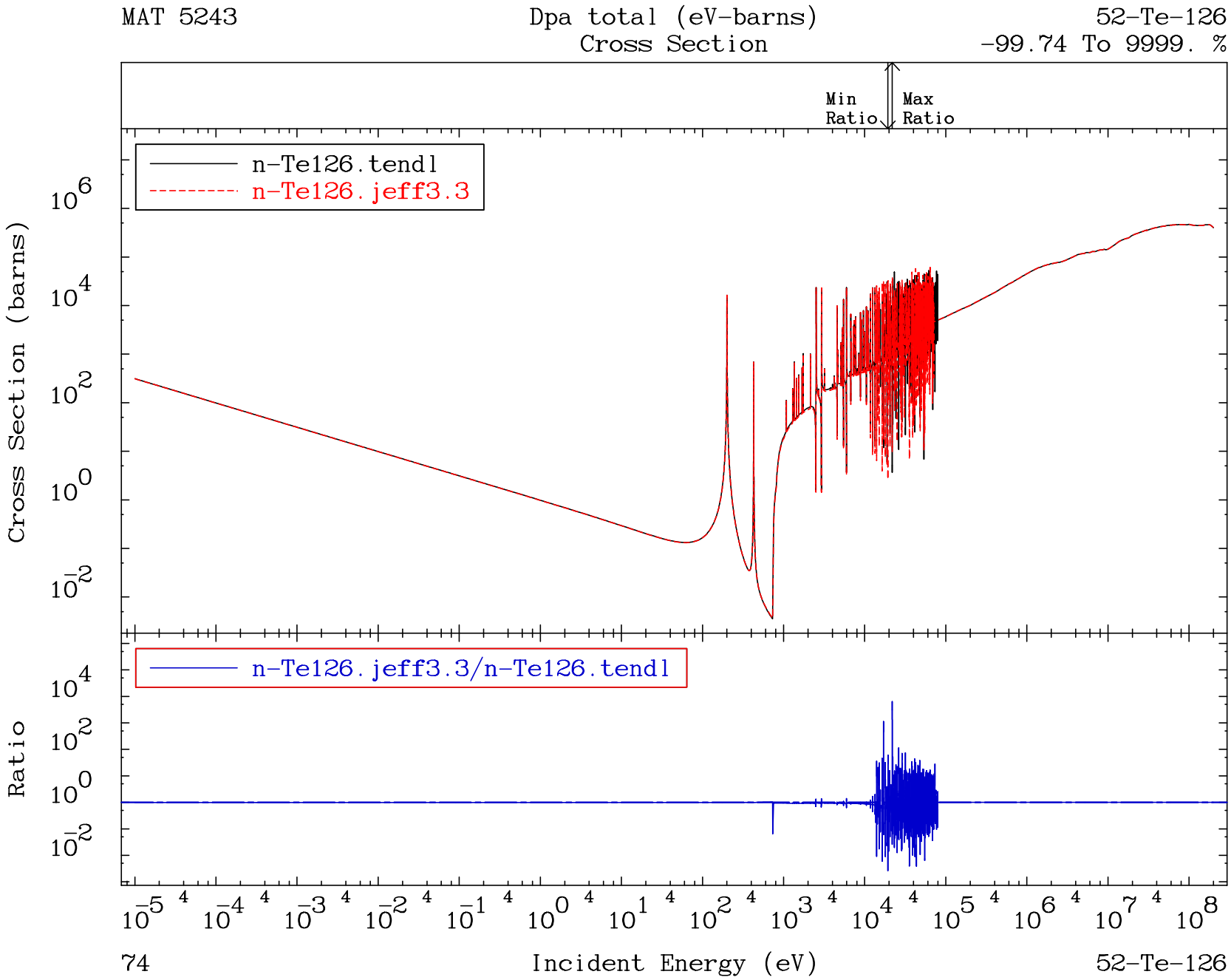

MAT 5243
Kerma inelastic (mt51-91)
Cross Section
52-Te-126
-3.090 To 1.281 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 700.00 keV
n-Te126.jeff3.3 Threshold 700.00 keV
Cross Section (barns)
n-Te126.jeff3.3/n-Te126.tendl
Ratio
Incident Energy (eV)
69
52-Te-126

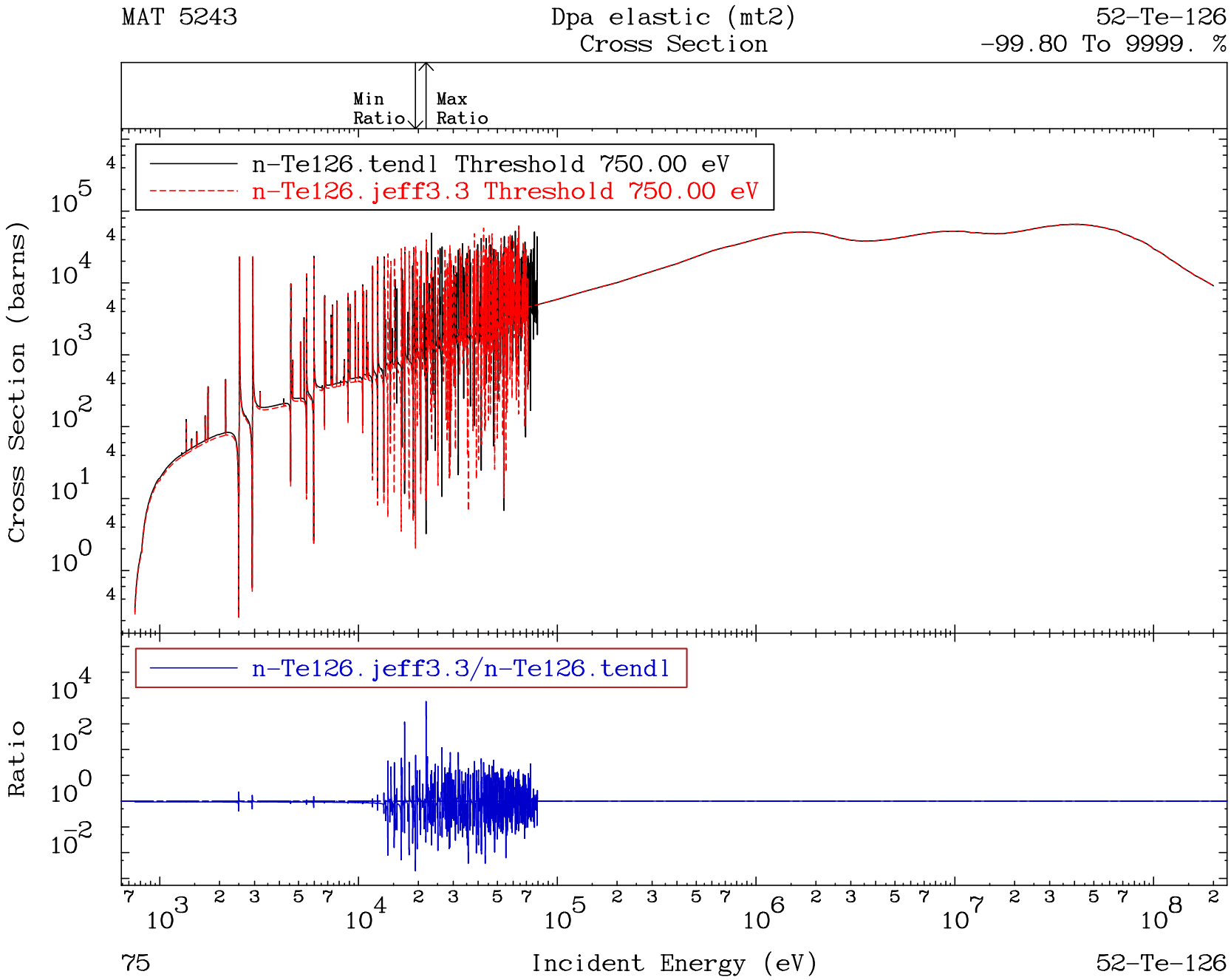

MAT 5243
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
52-Te-126
-3.090 To 1.281 %
Max Ratio
Min Ratio
n-Te126.tendl
n-Te126.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.02
1.00
0.98
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
70
Incident Energy (eV)
52-Te-126

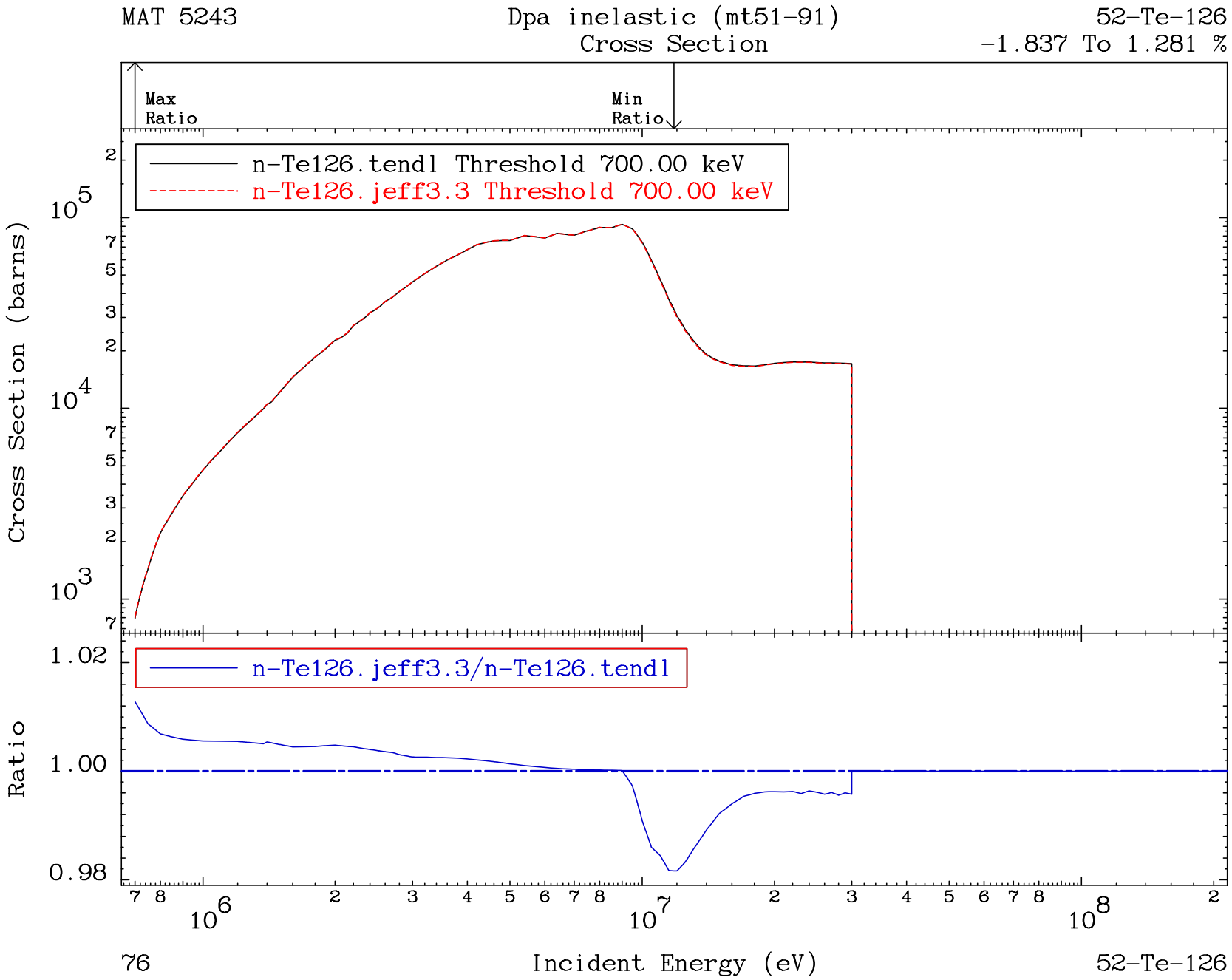

MAT 5243
Kerma capture (mt102)
Cross Section
52-Te-126
-99.99 To 9999. %
Max Ratio
Min Ratio
n-Te126.tendl
n-Te126.jeff3.3
Cross Section (barns)
n-Te126.jeff3.3/n-Te126.tendl
Ratio
Incident Energy (eV)
71
52-Te-126

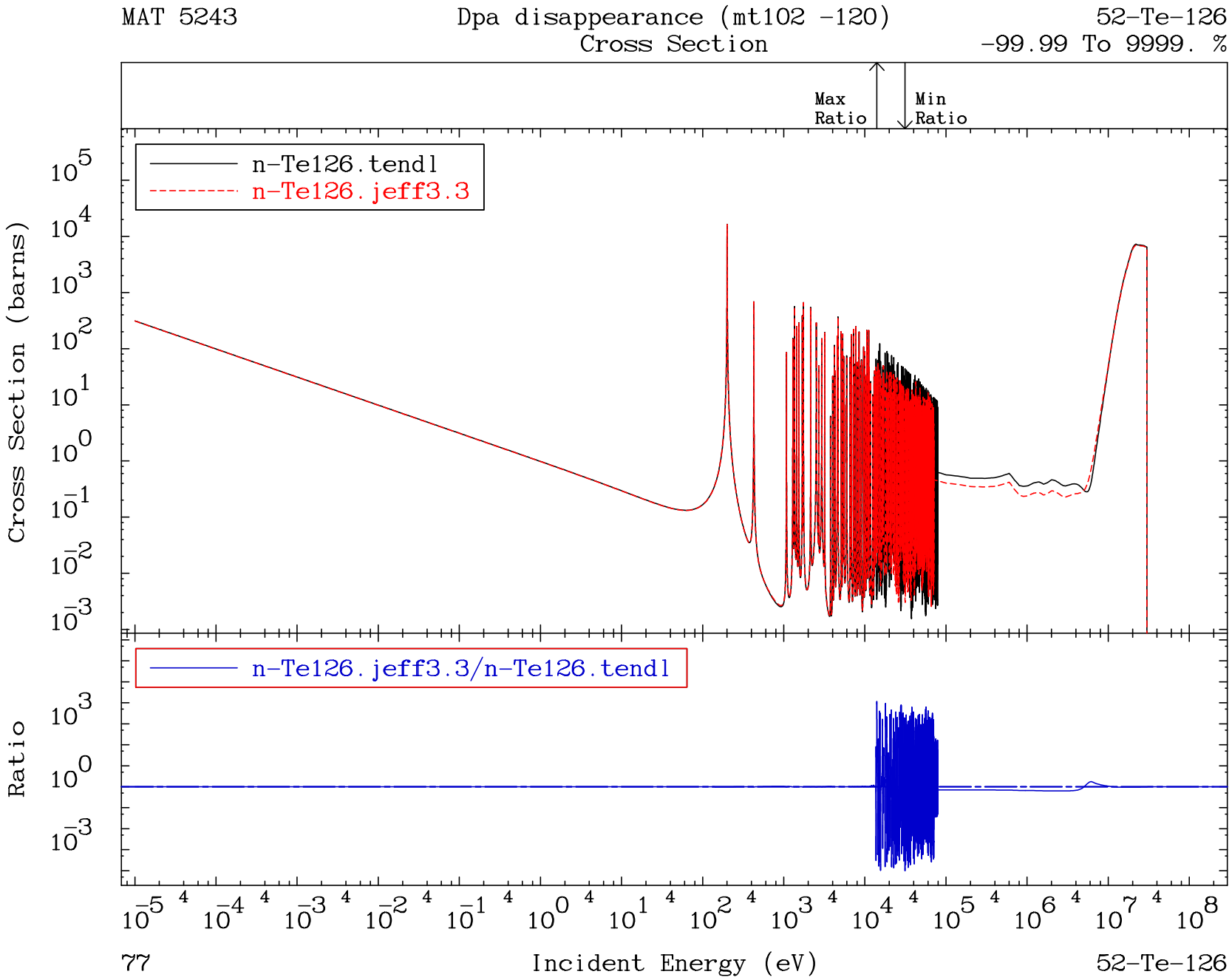

MAT 5243
Total photon (eV-barns)
Cross Section
52-Te-126
-99.99 To 9999. %
Max Ratio
Min Ratio
n-Te126.tendl
n-Te126.jeff3.3
Cross Section (barns)
n-Te126.jeff3.3/n-Te126.tendl
Ratio
Incident Energy (eV)
72
52-Te-126

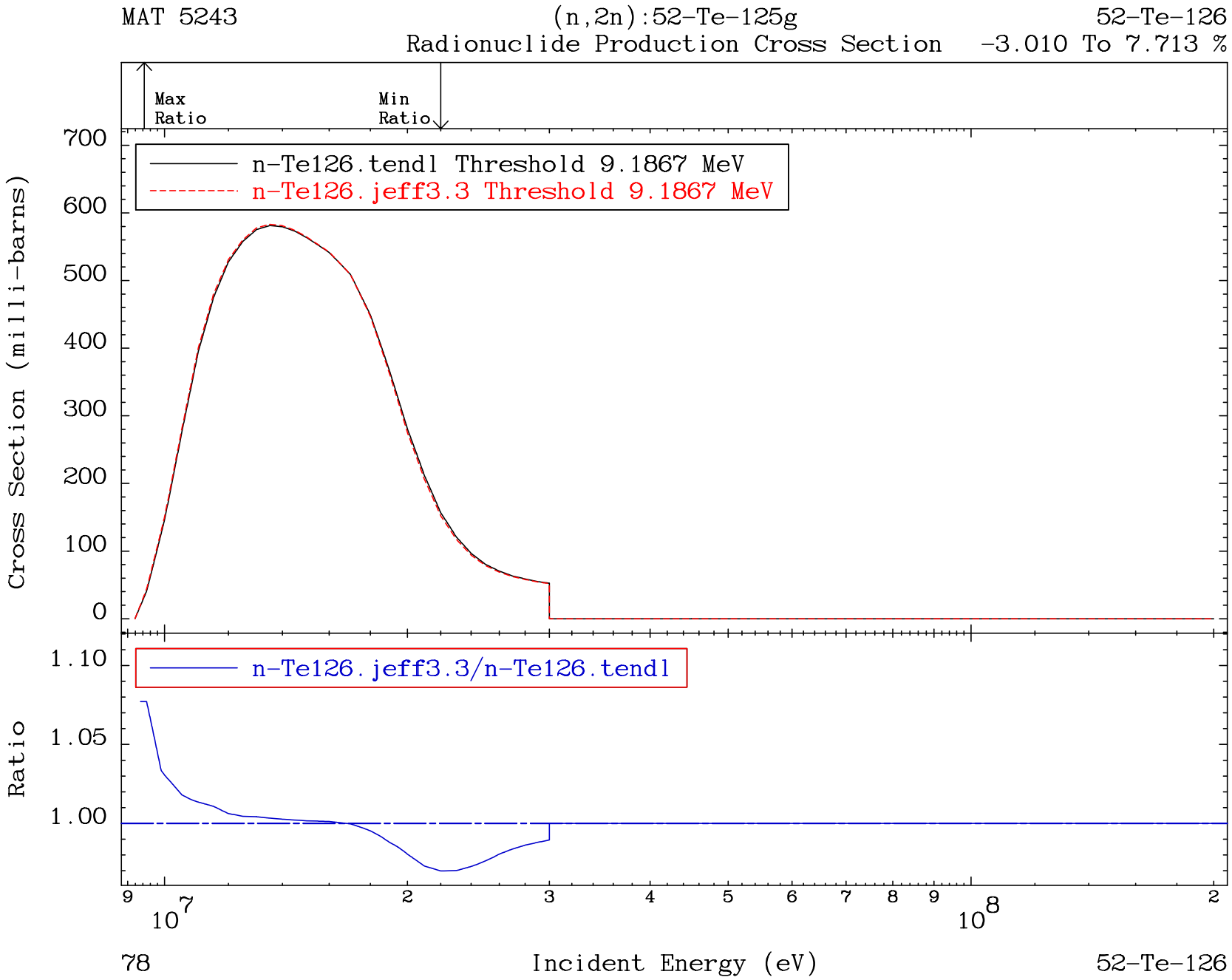

MAT 5243
Total kinematic kerma (high limit)
Cross Section
52-Te-126
-99.99 To 9999. %
Max Ratio
Min Ratio
n-Te126.tendl
n-Te126.jeff3.3
Cross Section (barns)
n-Te126.jeff3.3/n-Te126.tendl
Ratio
Incident Energy (eV)
73
52-Te-126

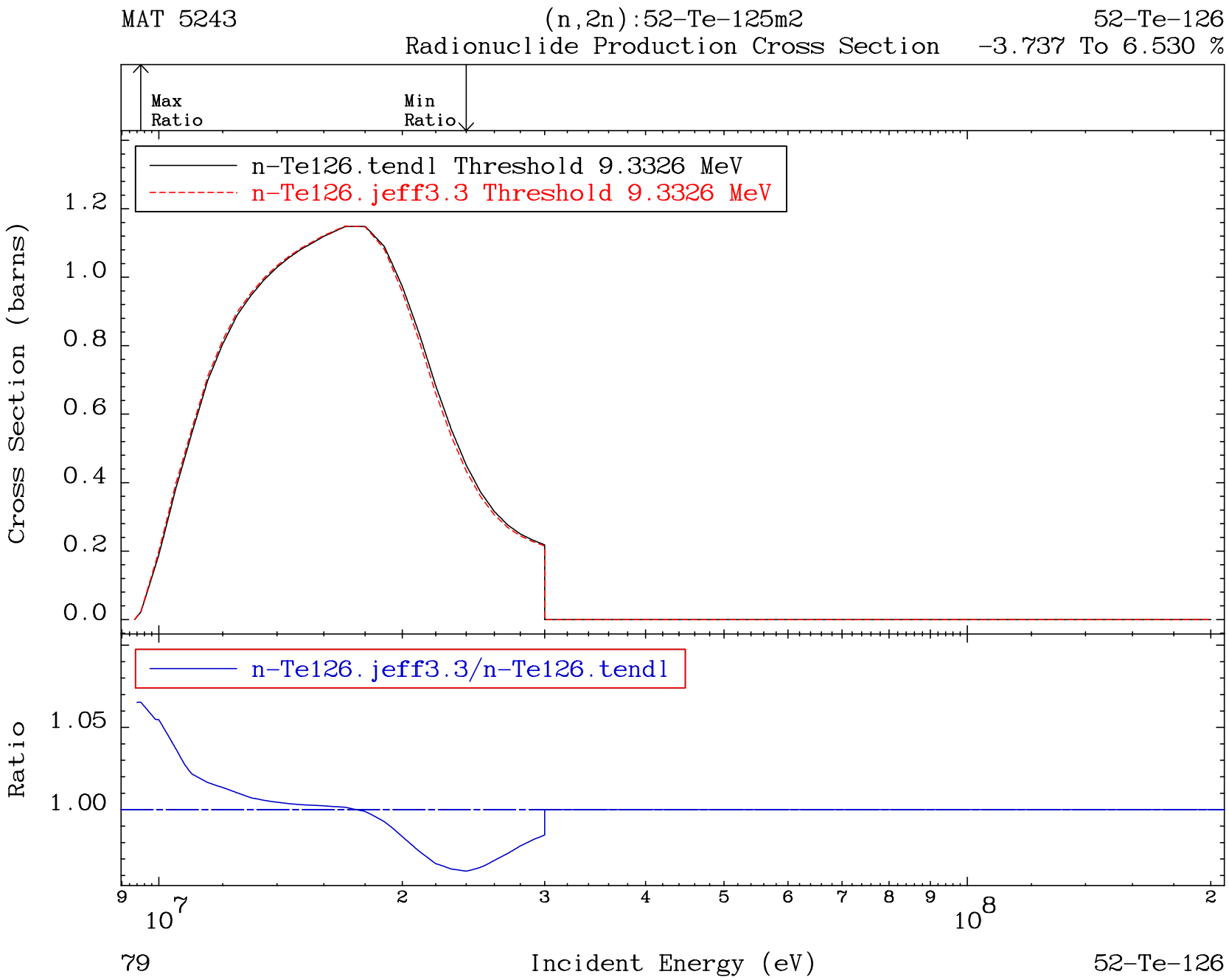

MAT 5243
Dpa total (eV-barns)
Cross Section
52-Te-126
-99.74 To 9999. %
Min Ratio
Max Ratio
n-Te126.tendl
n-Te126.jeff3.3
Cross Section (barns)
n-Te126.jeff3.3/n-Te126.tendl
Ratio
Incident Energy (eV)
74
52-Te-126

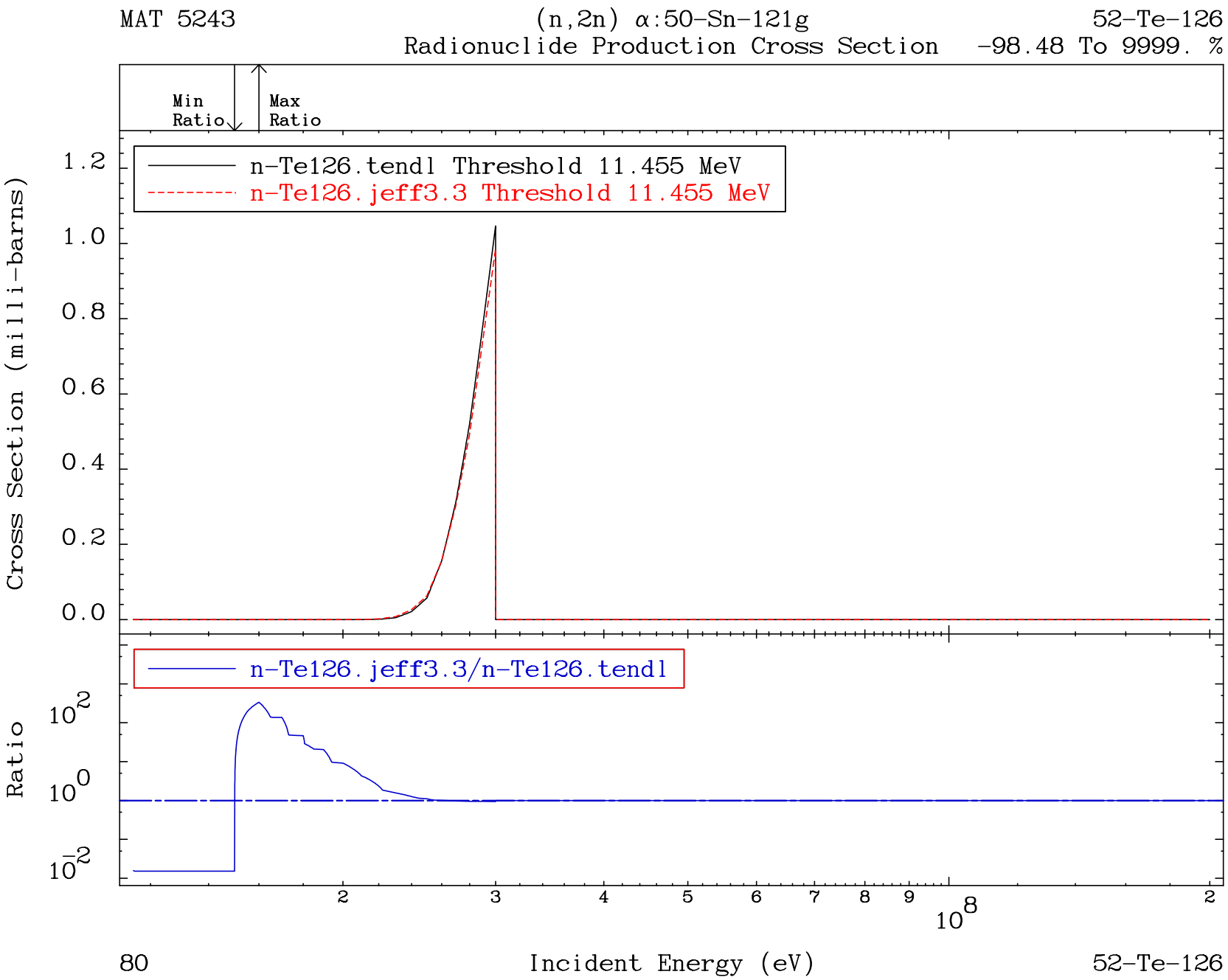

MAT 5243
Dpa elastic (mt2)
Cross Section
52-Te-126
-99.80 To 9999. %
Min Ratio
Max Ratio
n-Te126.tendl Threshold 750.00 eV
n-Te126.jeff3.3 Threshold 750.00 eV
Cross Section (barns)
n-Te126.jeff3.3/n-Te126.tendl
Ratio
Incident Energy (eV)
75
52-Te-126

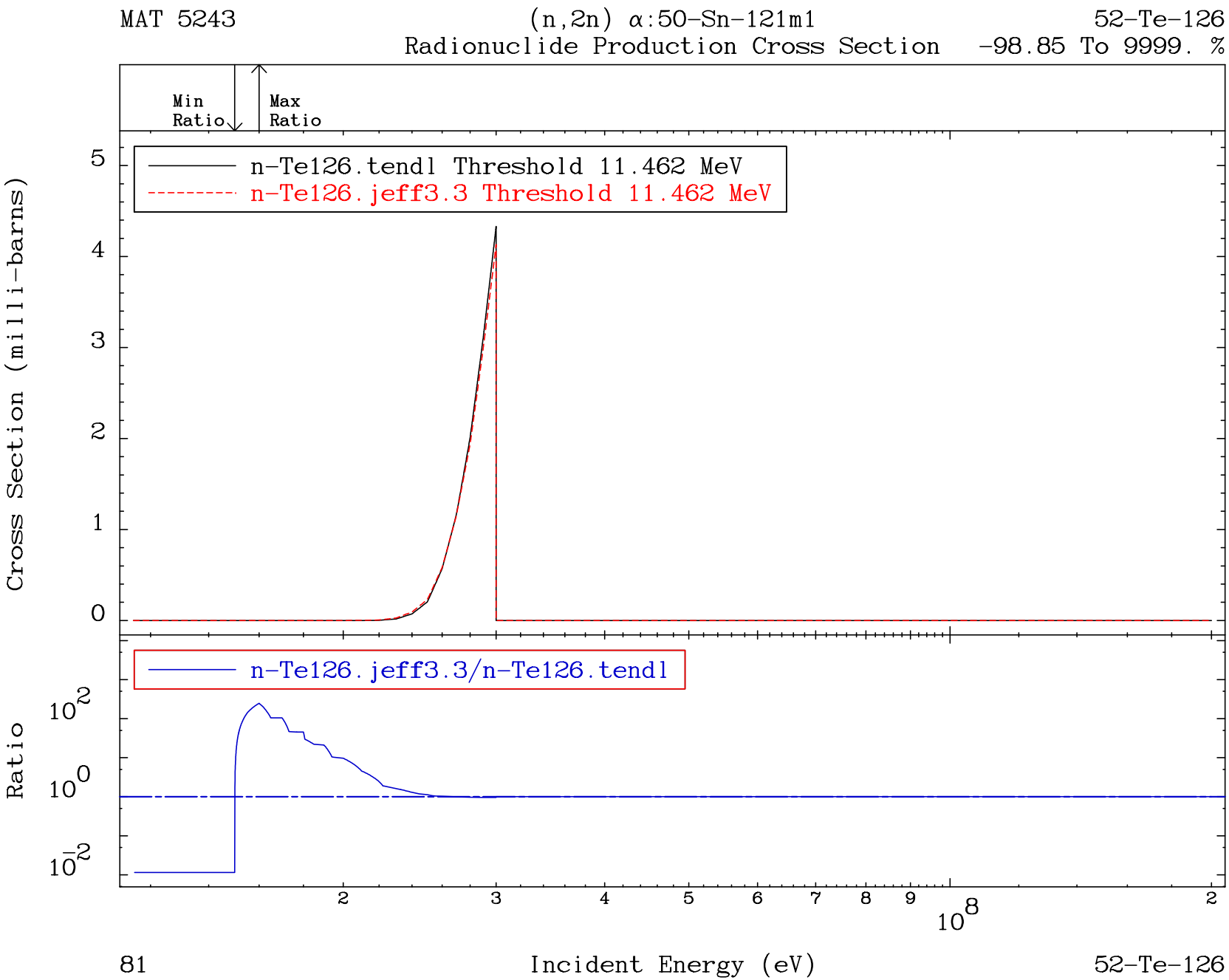

MAT 5243
Dpa inelastic (mt51-91)
Cross Section
52-Te-126
-1.837 To 1.281 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 700.00 keV
n-Te126.jeff3.3 Threshold 700.00 keV
Cross Section (barns)
n-Te126.jeff3.3/n-Te126.tendl
Ratio
Incident Energy (eV)
76
52-Te-126

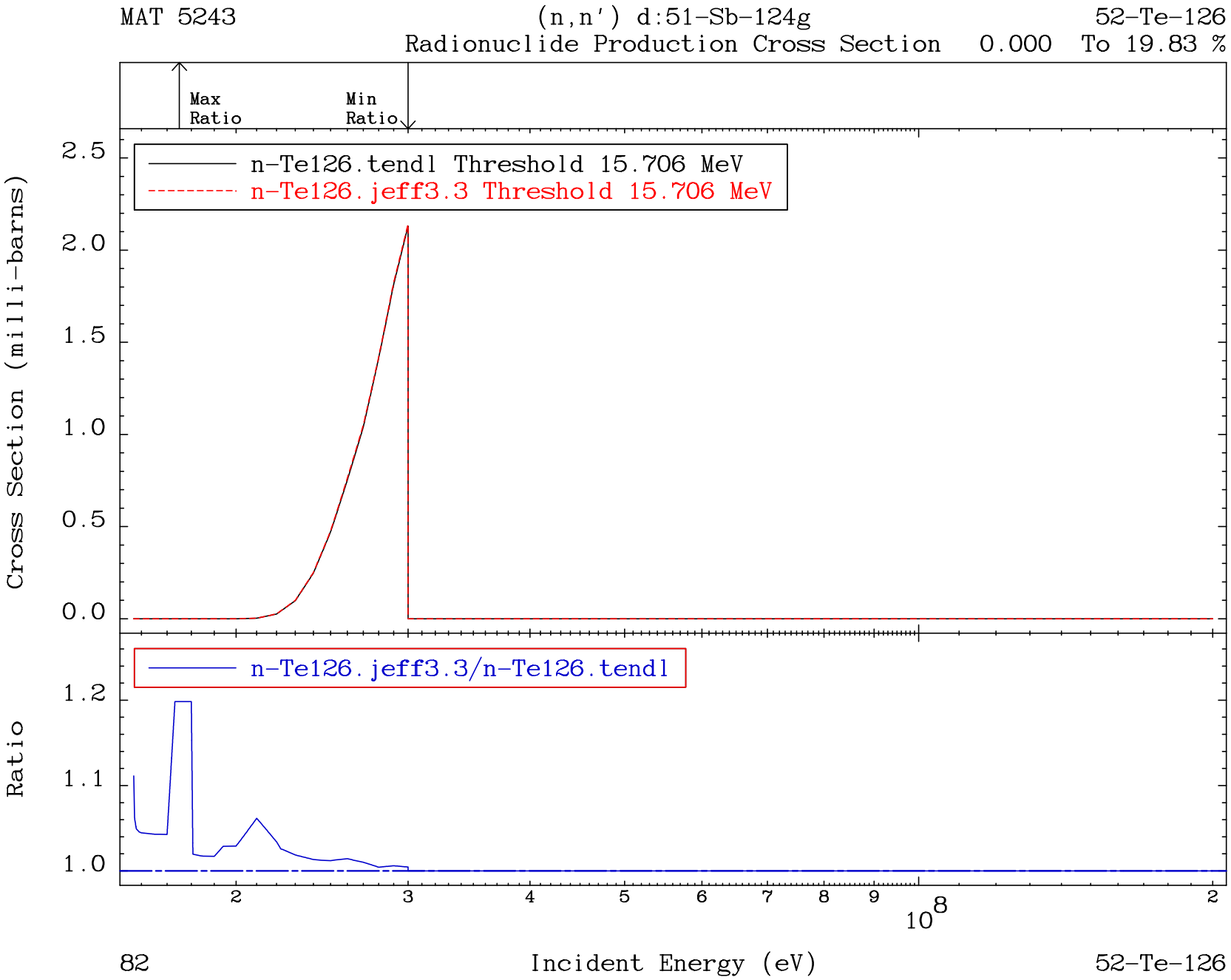

MAT 5243
Dpa disappearance (mt102 -120)
Cross Section
52-Te-126
-99.99 To 9999. %
Max Ratio
Min Ratio
n-Te126.tendl
n-Te126.jeff3.3
Cross Section (barns)
n-Te126.jeff3.3/n-Te126.tendl
Ratio
Incident Energy (eV)
77
52-Te-126

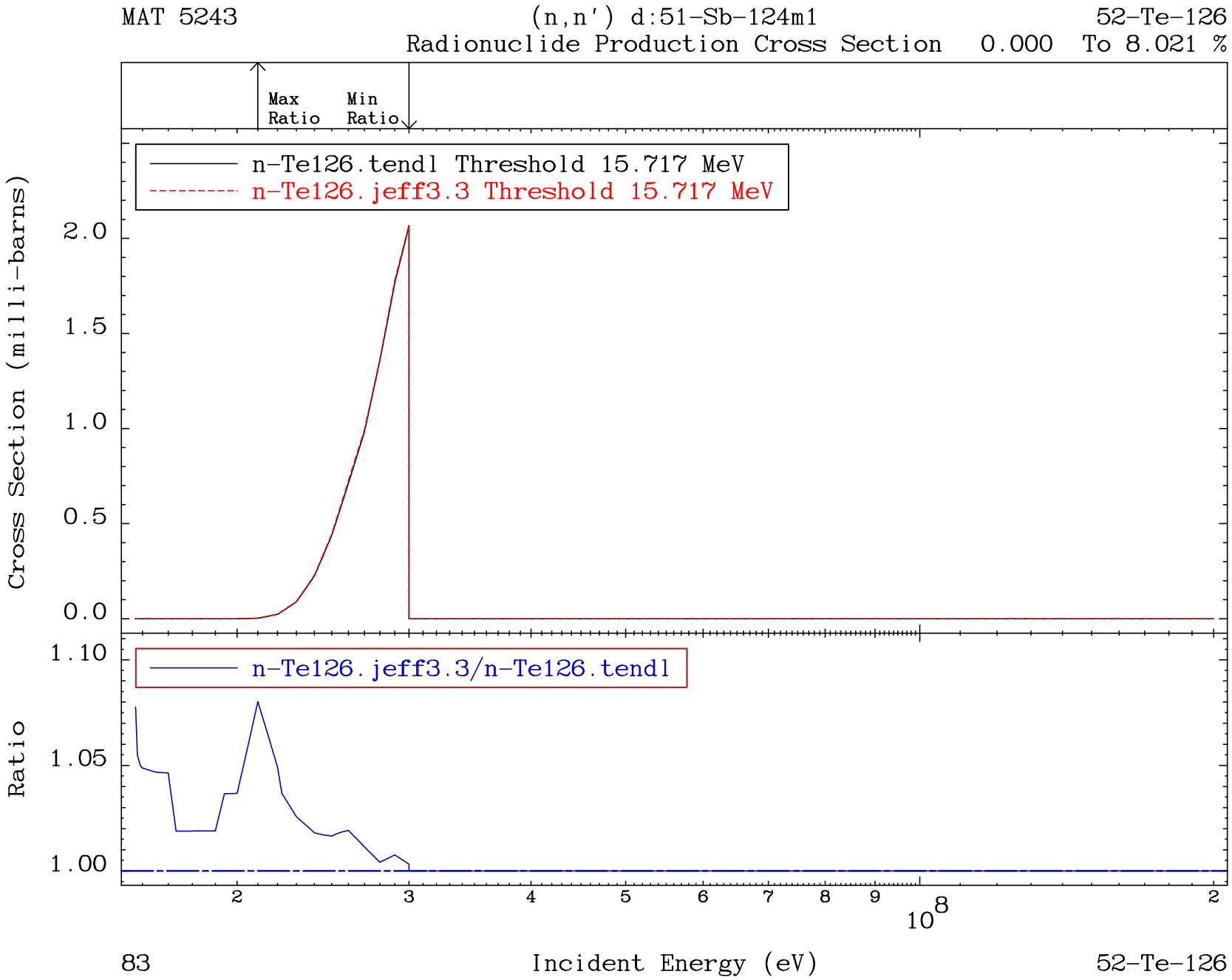

MAT 5243
(n,2n):52-Te-125g
52-Te-126
Radionuclide Production Cross Section -3.010 To 7.713 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 9.1867 MeV
n-Te126.jeff3.3 Threshold 9.1867 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.10
1.05
1.00
9
10^7
2
3
4
5
6
7
8
9
10^8
2
78
Incident Energy (eV)
52-Te-126

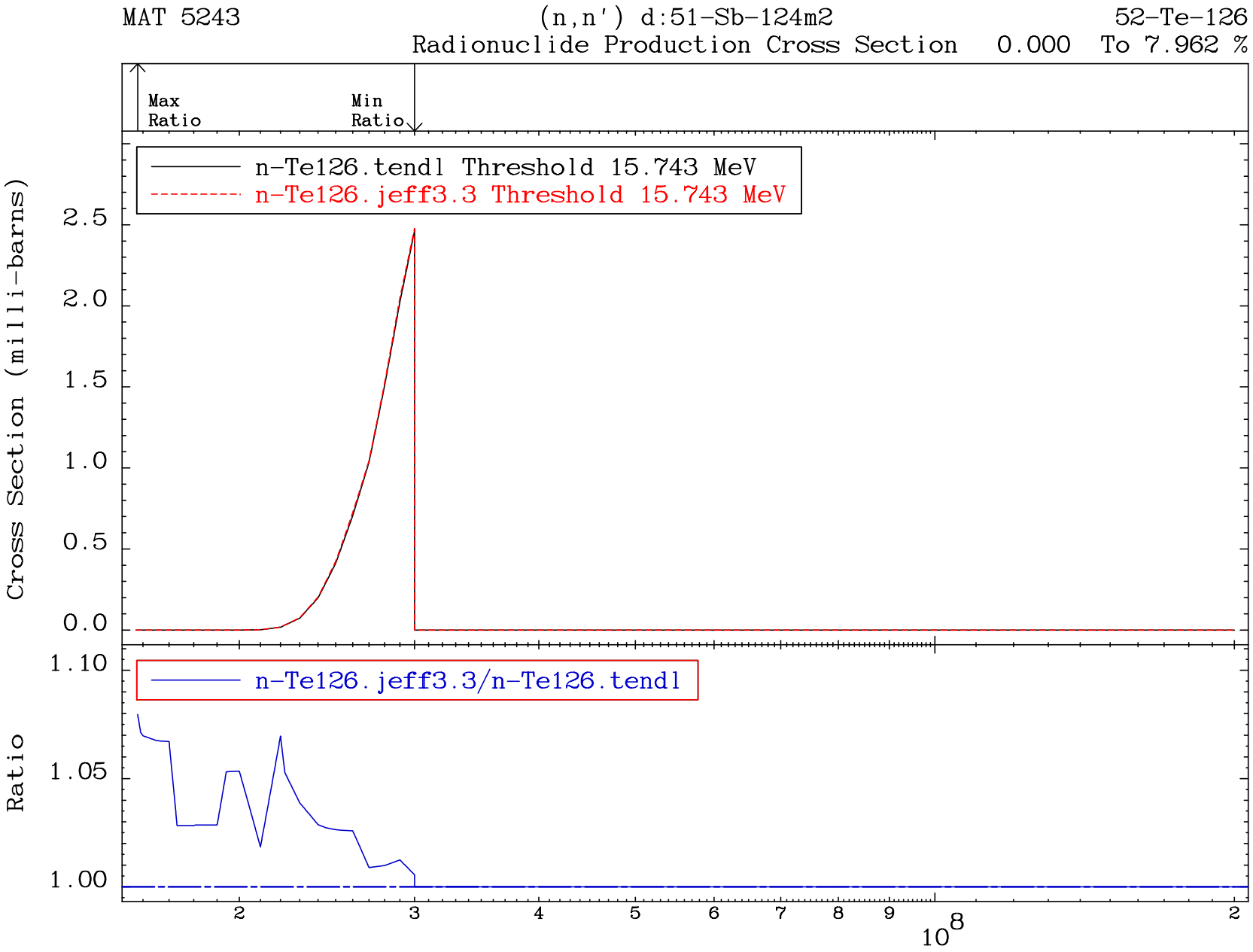

MAT 5243
(n,2n):52-Te-125m2
52-Te-126
Radionuclide Production Cross Section -3.737 To 6.530 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 9.3326 MeV
n-Te126.jeff3.3 Threshold 9.3326 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.05
1.00
9
10^7
2
3
4
5
6
7
8
9
10^8
2
79
Incident Energy (eV)
52-Te-126

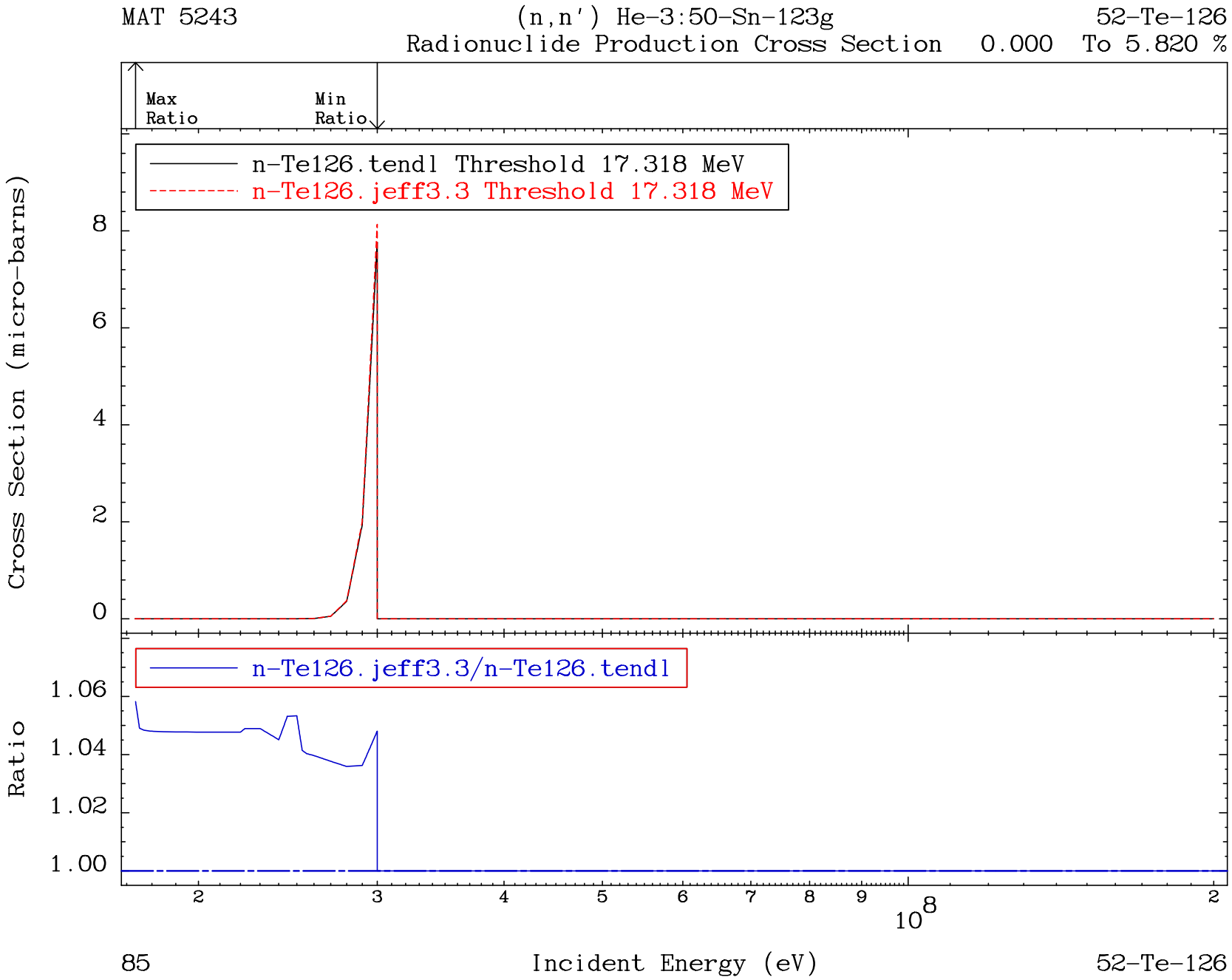

MAT 5243
(n,2n) α:50-Sn-121g
52-Te-126
Radionuclide Production Cross Section -98.48 To 9999. %
Min Ratio
Max Ratio
n-Te126.tendl Threshold 11.455 MeV
n-Te126.jeff3.3 Threshold 11.455 MeV
Cross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
80
Incident Energy (eV)
52-Te-126

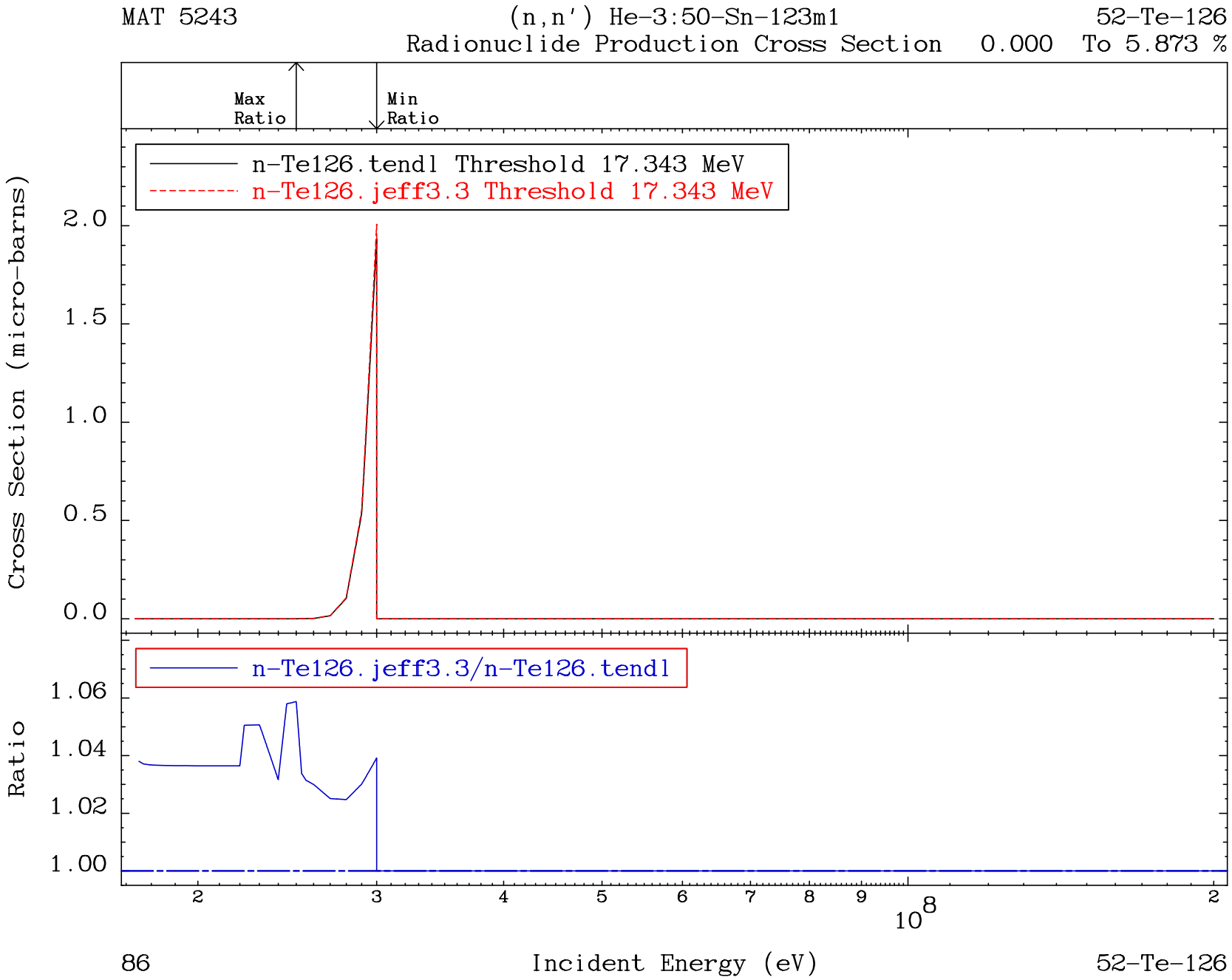

MAT 5243
(n,2n) α:50-Sn-121m1
52-Te-126
Radionuclide Production Cross Section -98.85 To 9999. %
Min Ratio
Max Ratio
n-Te126.tendl Threshold 11.462 MeV
n-Te126.jeff3.3 Threshold 11.462 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Te126.jeff3.3/n-Te126.tendl
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
52-Te-126

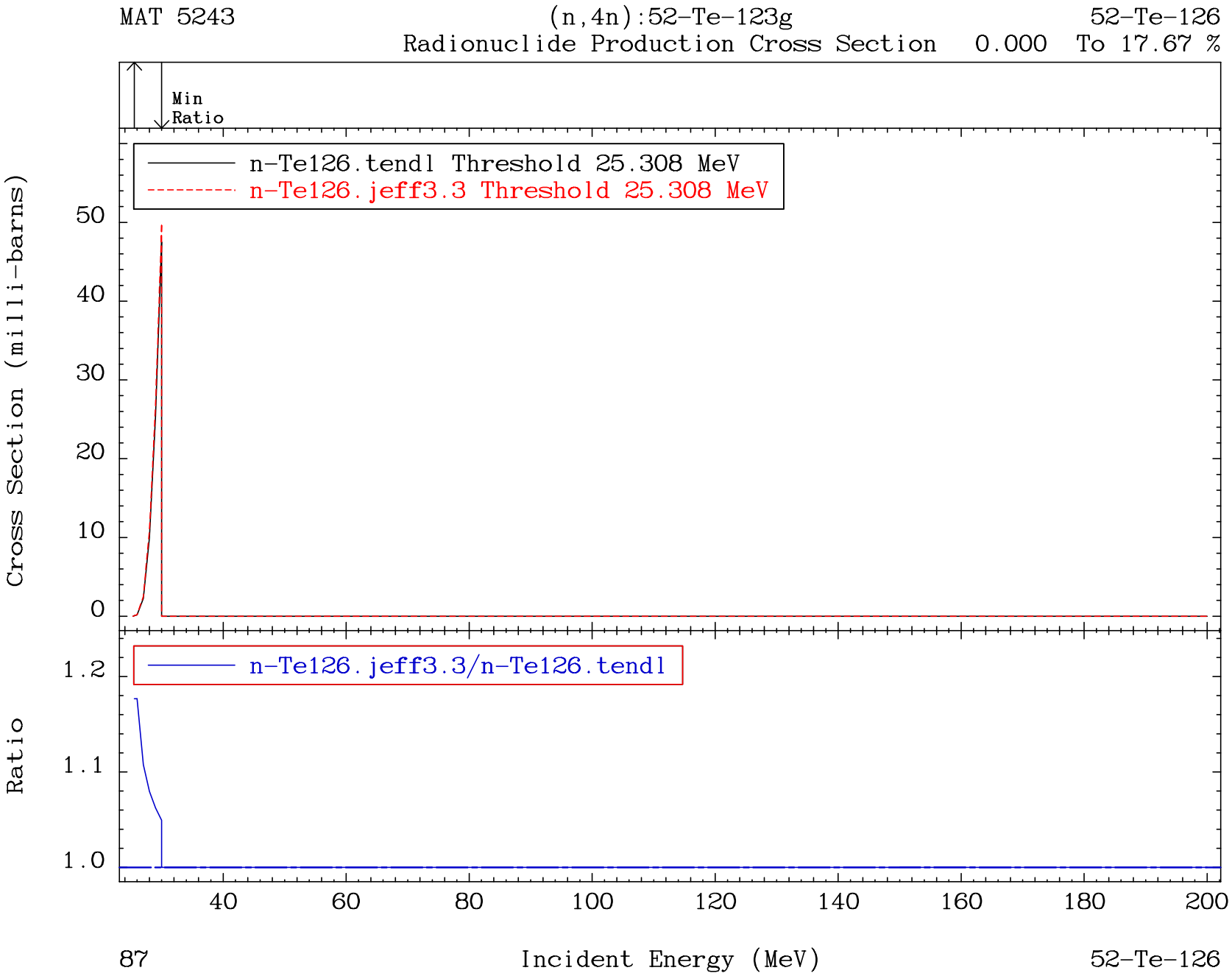

MAT 5243
(n,n') d:51-Sb-124g
52-Te-126
Radionuclide Production Cross Section 0.000 To 19.83 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 15.706 MeV
n-Te126.jeff3.3 Threshold 15.706 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.2
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
82
Incident Energy (eV)
52-Te-126

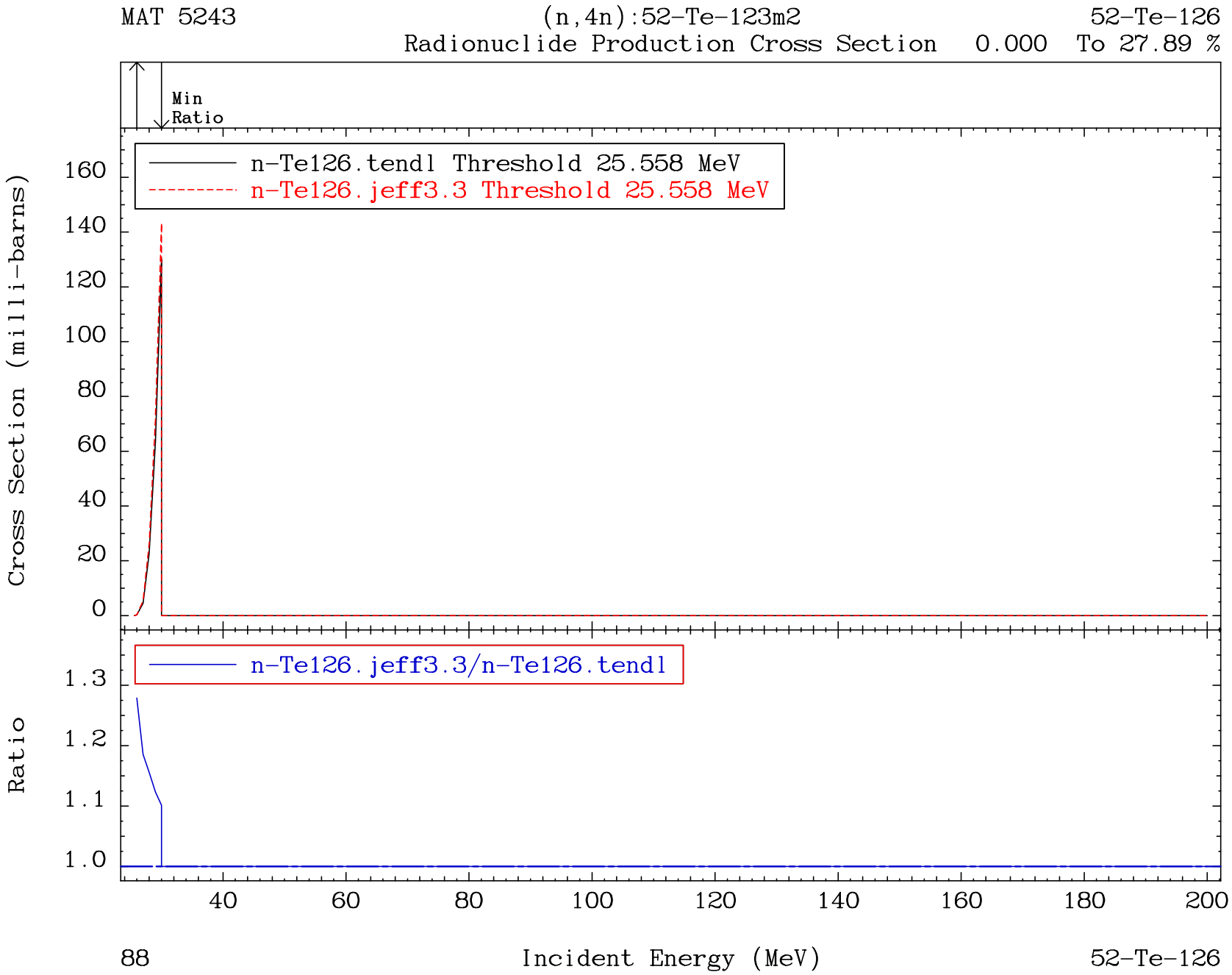

MAT 5243
(n,n') d:51-Sb-124m1
52-Te-126
Radionuclide Production Cross Section 0.000 To 8.021 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 15.717 MeV
n-Te126.jeff3.3 Threshold 15.717 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
52-Te-126

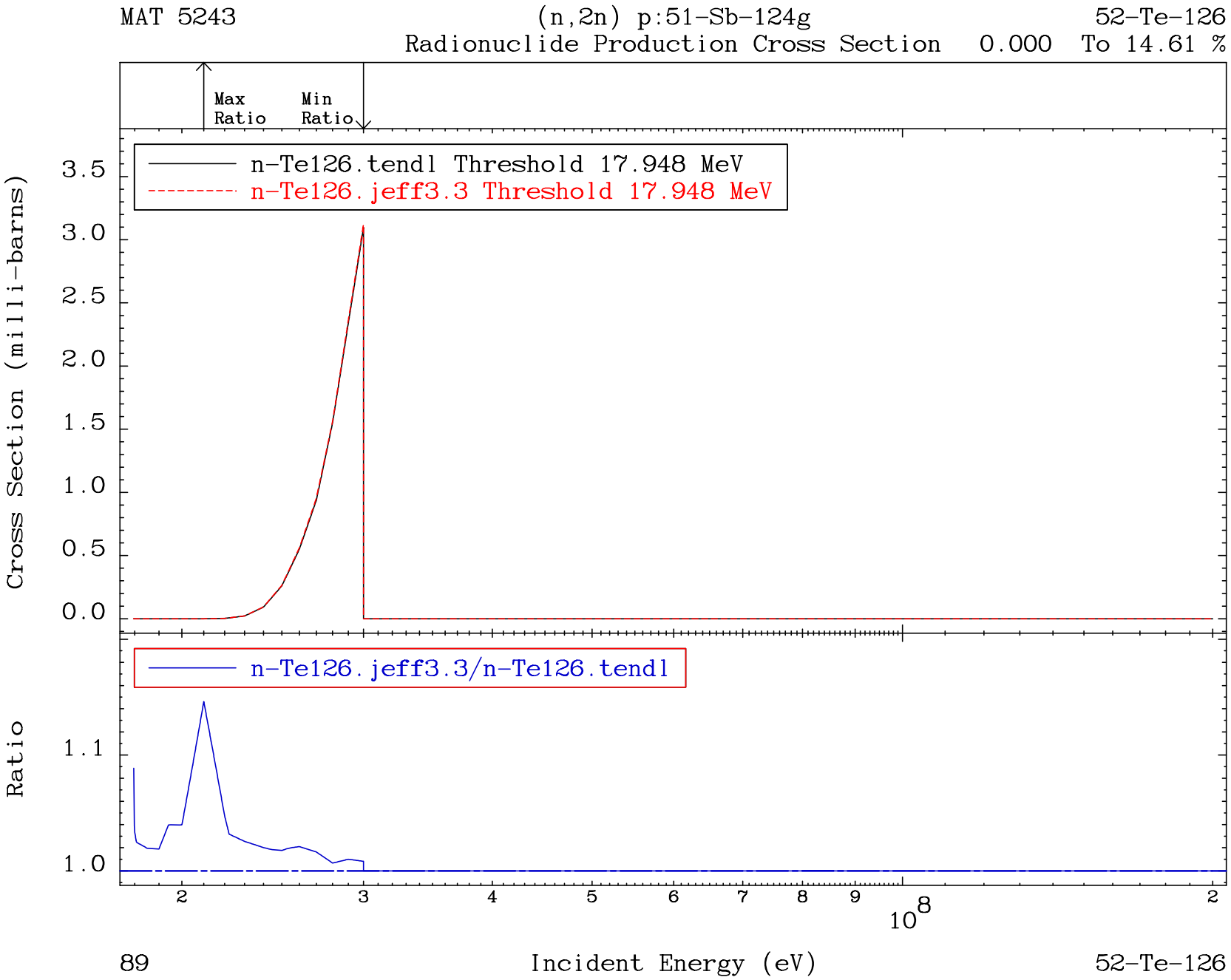

MAT 5243
(n,n') d:51-Sb-124m2
52-Te-126
Radionuclide Production Cross Section 0.000 To 7.962 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 15.743 MeV
n-Te126.jeff3.3 Threshold 15.743 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
52-Te-126

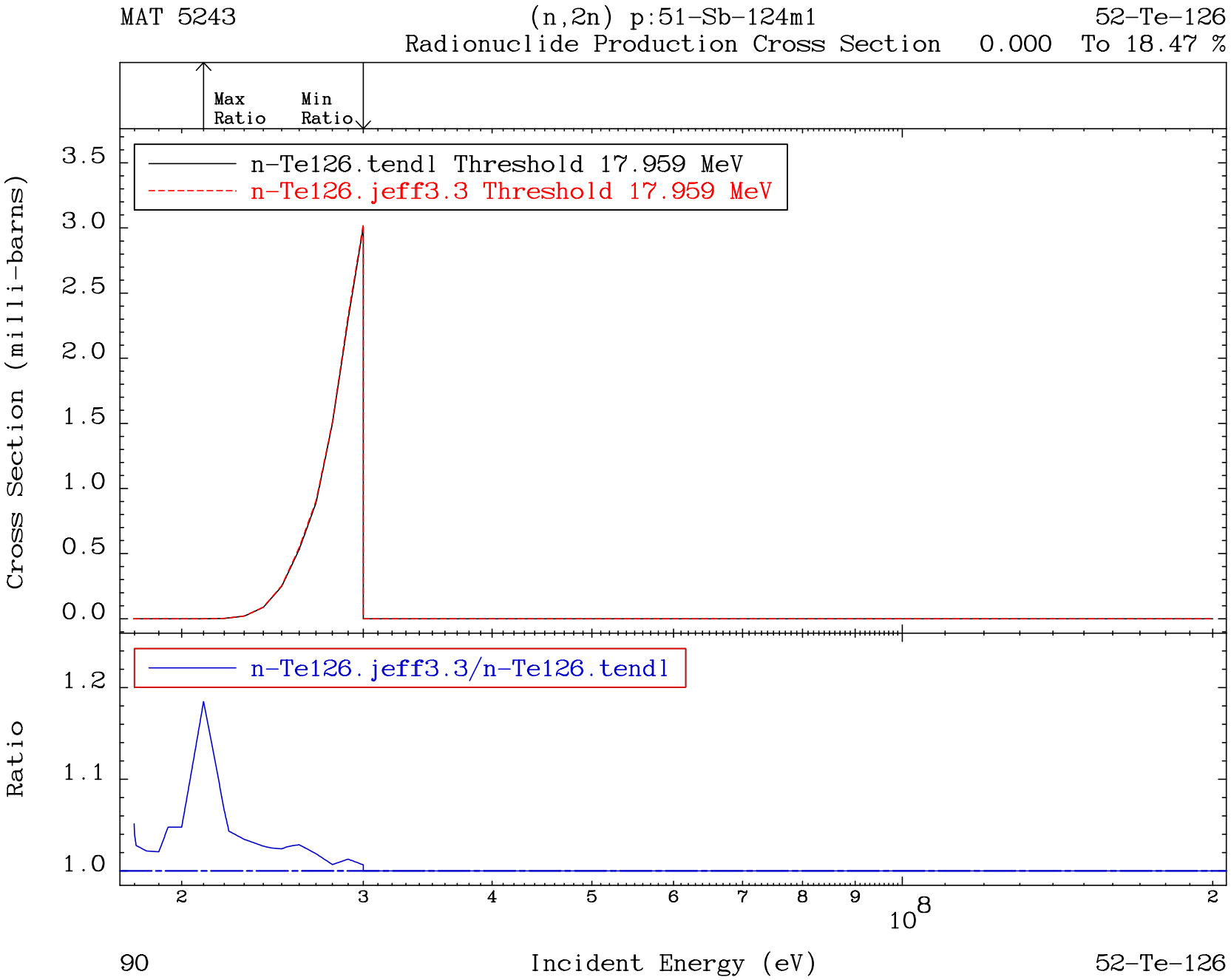

MAT 5243
(n,n') He-3:50-Sn-123g
52-Te-126
Radionuclide Production Cross Section 0.000 To 5.820 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 17.318 MeV
n-Te126.jeff3.3 Threshold 17.318 MeV
Cross Section (micro-barns)
0
2
4
6
8
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.00
1.02
1.04
1.06
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
52-Te-126

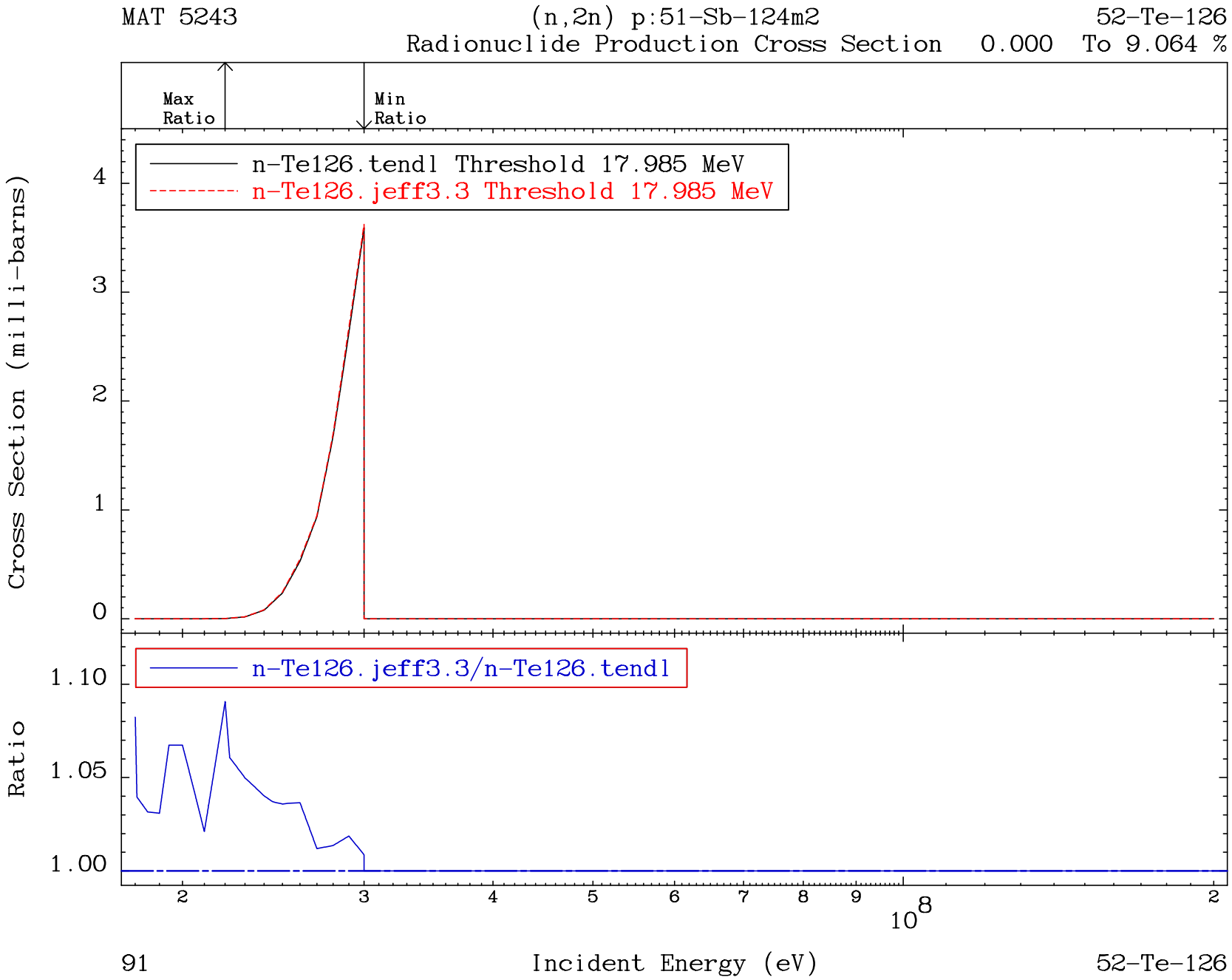

MAT 5243
(n,n') He-3:50-Sn-123m1
52-Te-126
Radionuclide Production Cross Section 0.000 To 5.873 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 17.343 MeV
n-Te126.jeff3.3 Threshold 17.343 MeV
Cross Section (micro-barns)
2.0
1.5
1.0
0.5
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.06
1.04
1.02
1.00
2
3
4
5
6
7
8
9
10^8
2
86
Incident Energy (eV)
52-Te-126

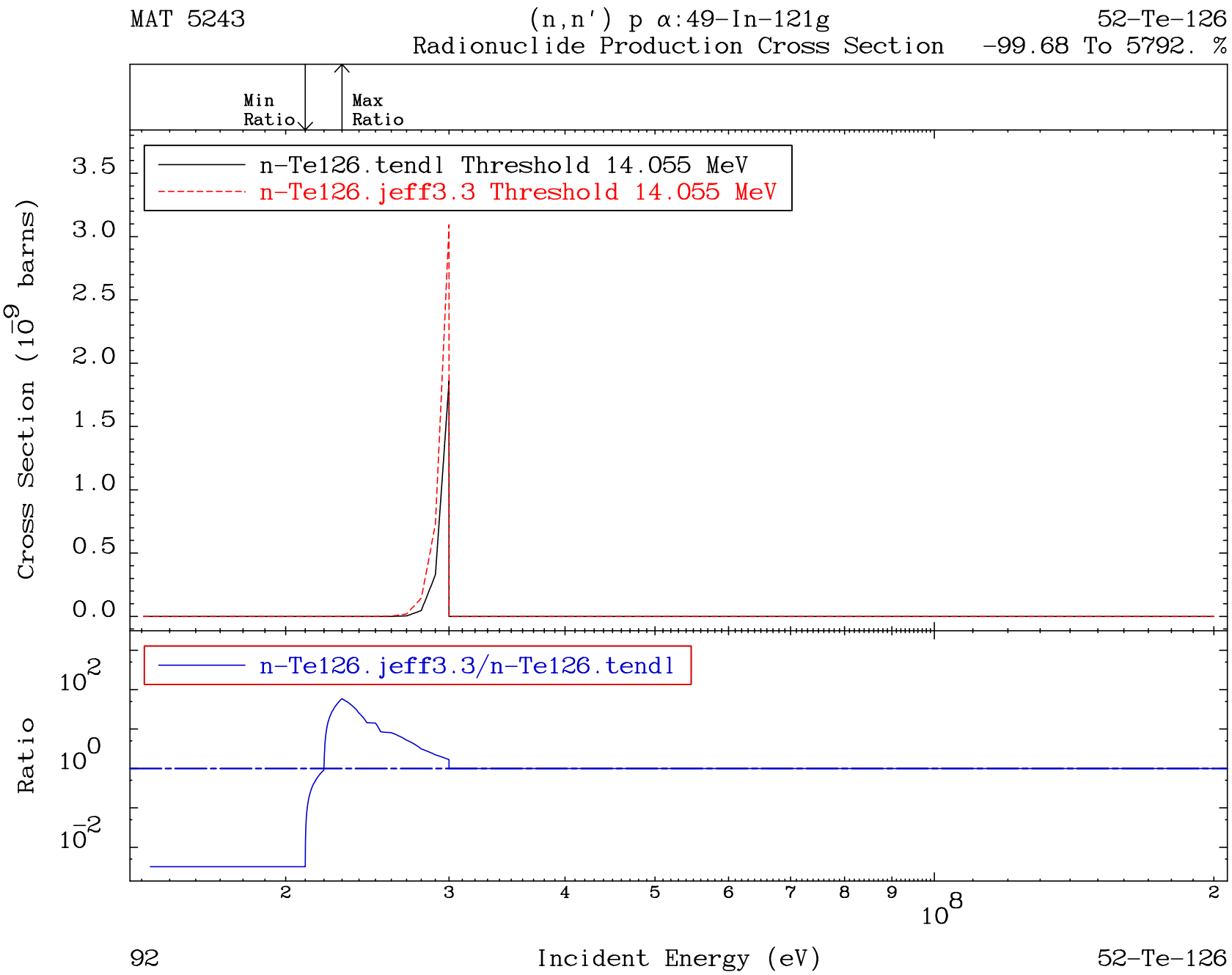

MAT 5243
(n,4n):52-Te-123g
52-Te-126
Radionuclide Production Cross Section 0.000 To 17.67 %
Min
Ratio
n-Te126.tendl Threshold 25.308 MeV
n-Te126.jeff3.3 Threshold 25.308 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.2
1.1
1.0
40
60
80
100
120
140
160
180
200
87
Incident Energy (MeV)
52-Te-126

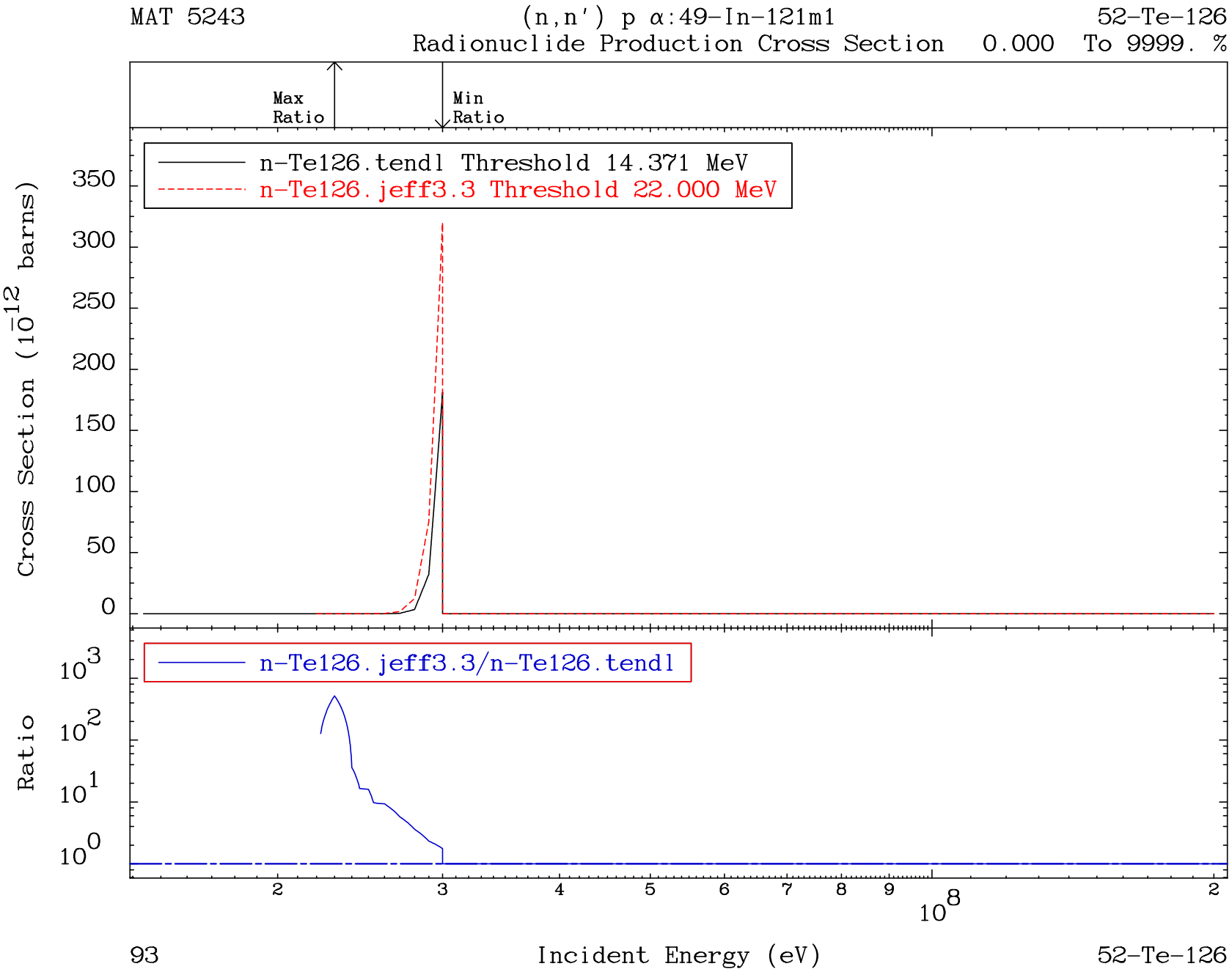

MAT 5243
(n,4n):52-Te-123m2
52-Te-126
Radionuclide Production Cross Section 0.000 To 27.89 %
Min
Ratio
n-Te126.tendl Threshold 25.558 MeV
n-Te126.jeff3.3 Threshold 25.558 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.3
1.2
1.1
1.0
40
60
80
100
120
140
160
180
200
88
Incident Energy (MeV)
52-Te-126

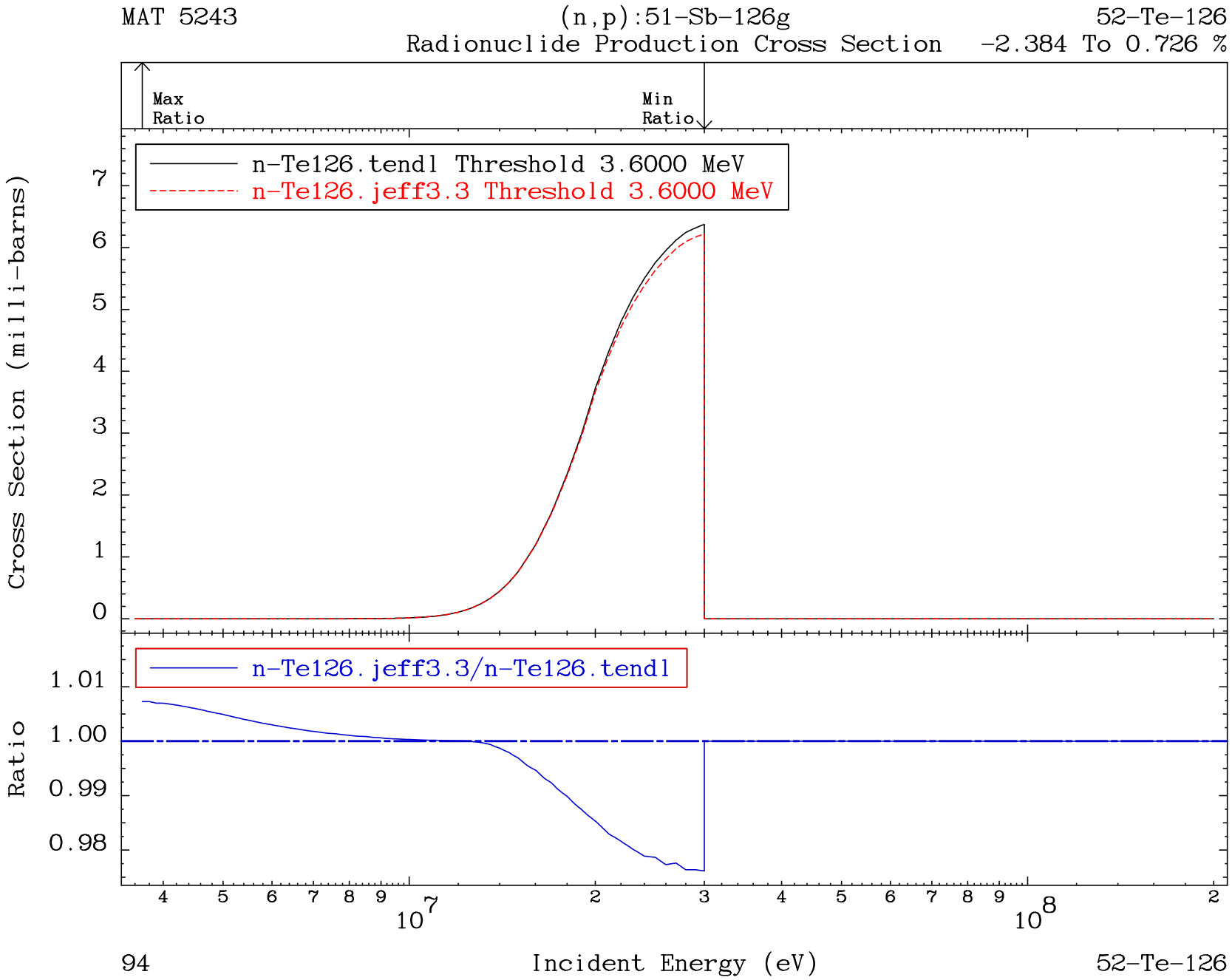

MAT 5243
(n,2n) p:51-Sb-124g
52-Te-126
Radionuclide Production Cross Section 0.000 To 14.61 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 17.948 MeV
n-Te126.jeff3.3 Threshold 17.948 MeV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
89
Incident Energy (eV)
52-Te-126

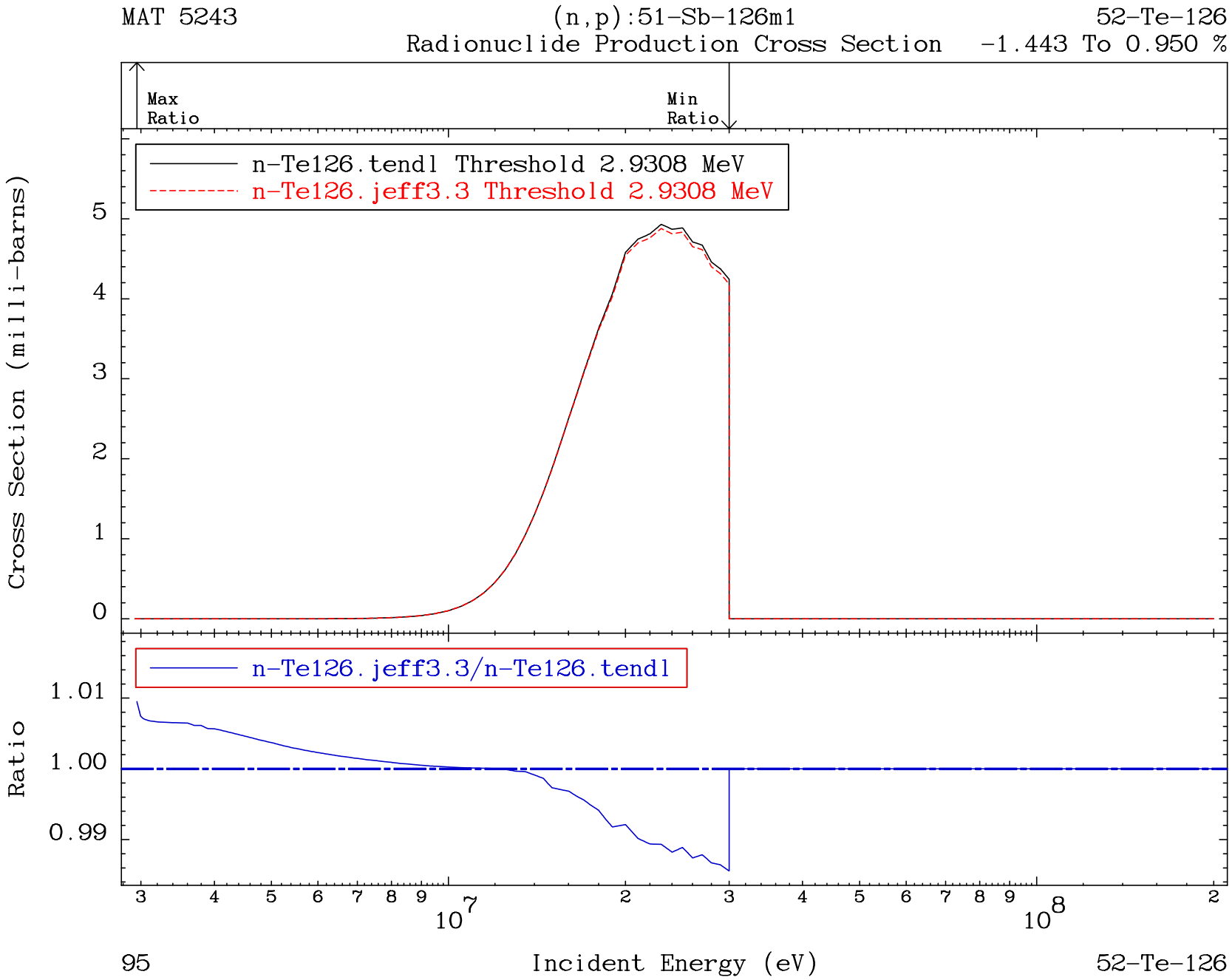

MAT 5243
(n,2n) p:51-Sb-124m1
52-Te-126
Radionuclide Production Cross Section 0.000 To 18.47 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 17.959 MeV
n-Te126.jeff3.3 Threshold 17.959 MeV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.2
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
90
Incident Energy (eV)
52-Te-126

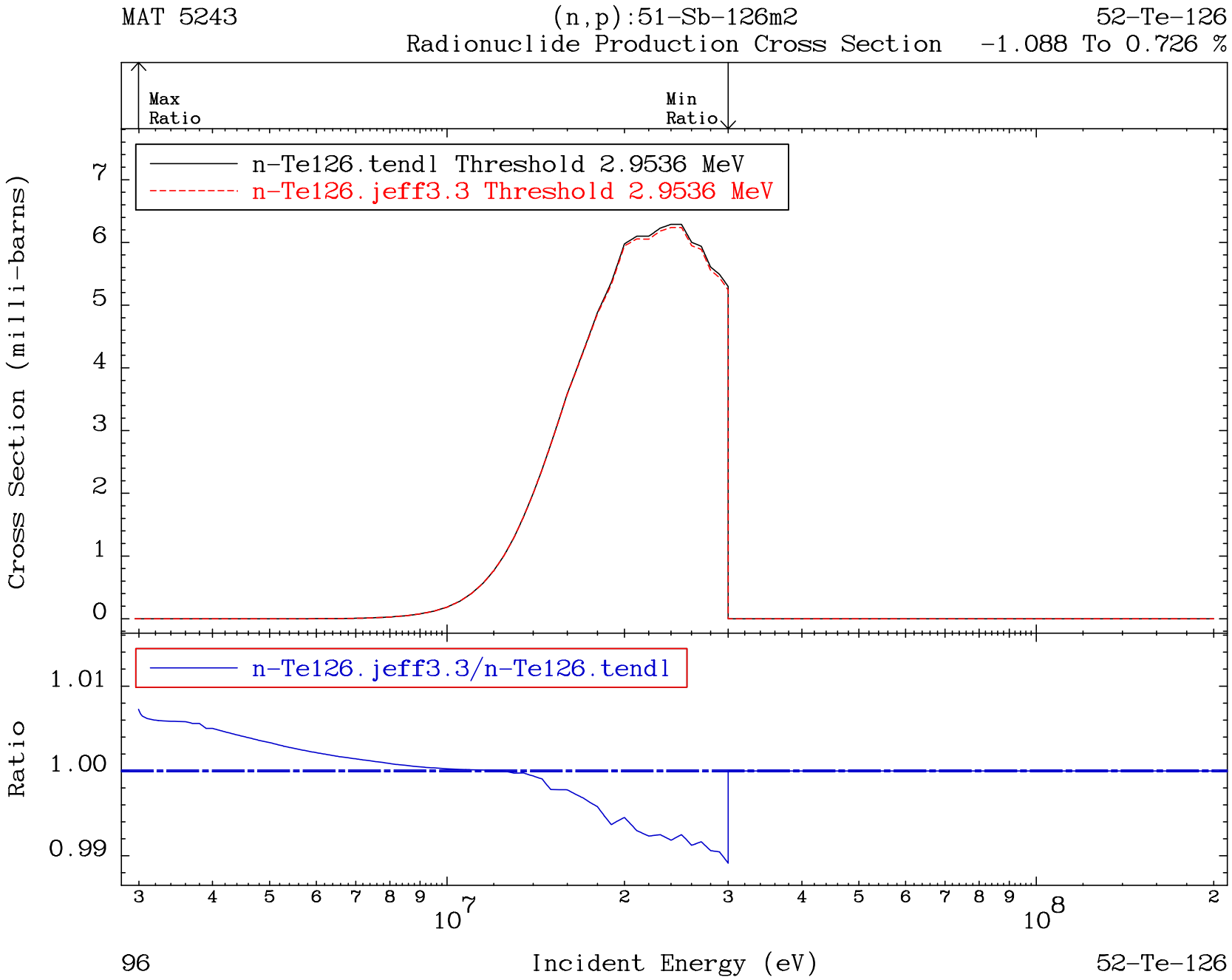

MAT 5243
(n,2n) p:51-Sb-124m2
52-Te-126
Radionuclide Production Cross Section 0.000 To 9.064 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 17.985 MeV
n-Te126.jeff3.3 Threshold 17.985 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.00
1.05
1.10
2
3
4
5
6
7
8
9
10^8
2
91
Incident Energy (eV)
52-Te-126

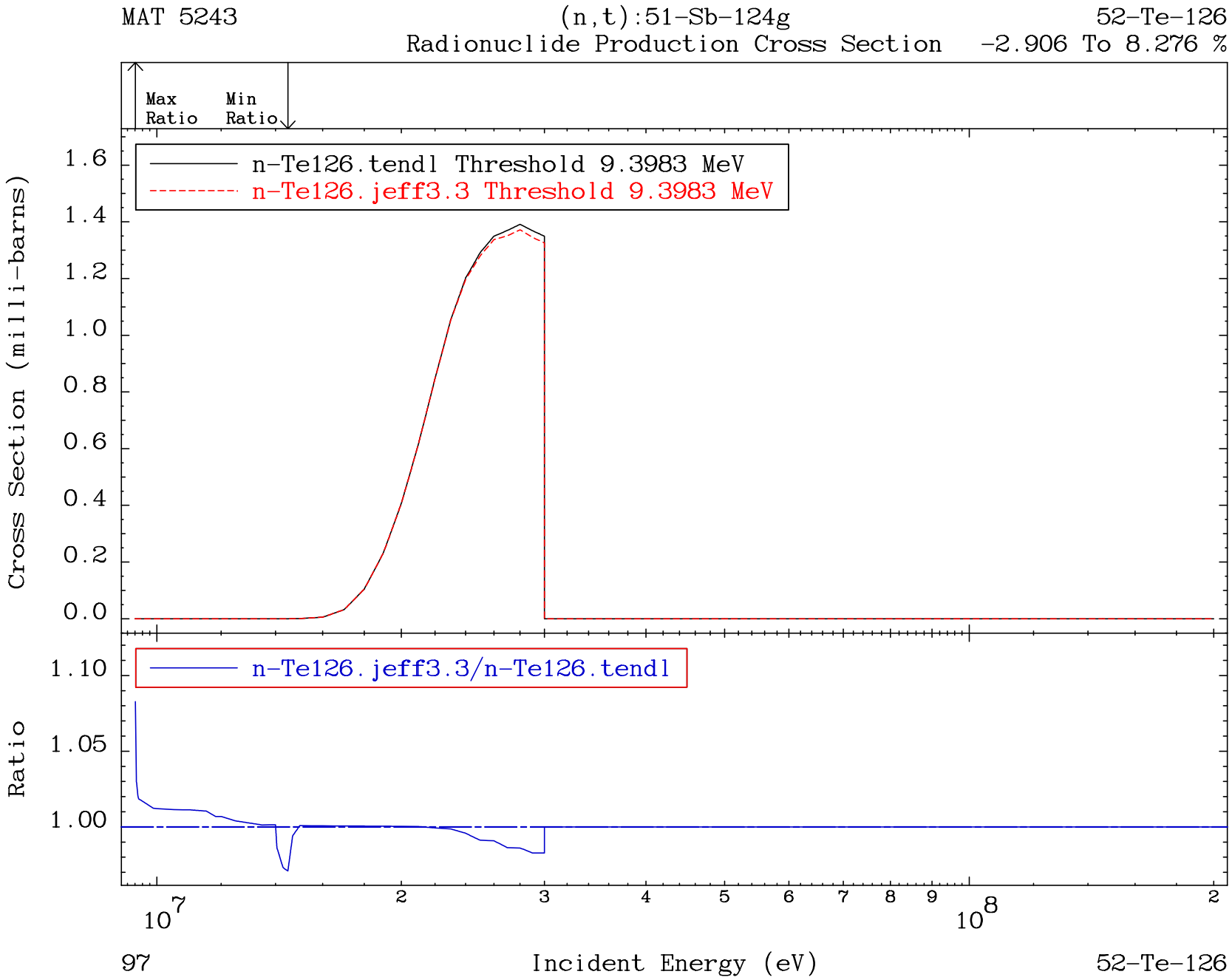

MAT 5243
(n,n') p α:49-In-121g
52-Te-126
Radionuclide Production Cross Section -99.68 To 5792. %
Min Ratio
Max Ratio
n-Te126.tendl Threshold 14.055 MeV
n-Te126.jeff3.3 Threshold 14.055 MeV
Cross Section (10^{-9} barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
10^{2}
10^{0}
10^{-2}
2
3
4
5
6
7
8
9
10^{8}
2
92
Incident Energy (eV)
52-Te-126

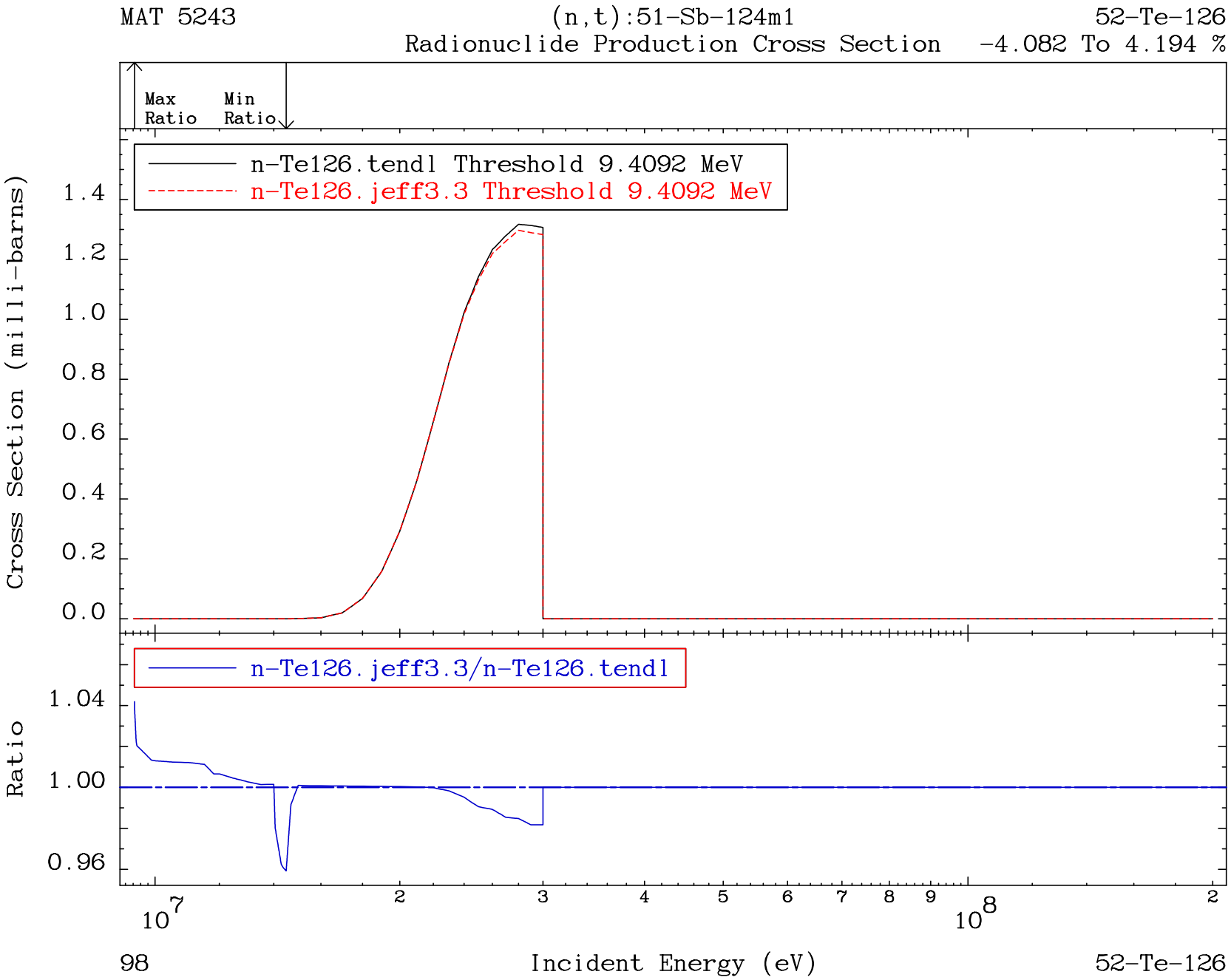

MAT 5243
(n,n') p α:49-In-121m1
52-Te-126
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 14.371 MeV
n-Te126.jeff3.3 Threshold 22.000 MeV
Cross Section (10^{-12} barns)
350
300
250
200
150
100
50
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
93
Incident Energy (eV)
52-Te-126

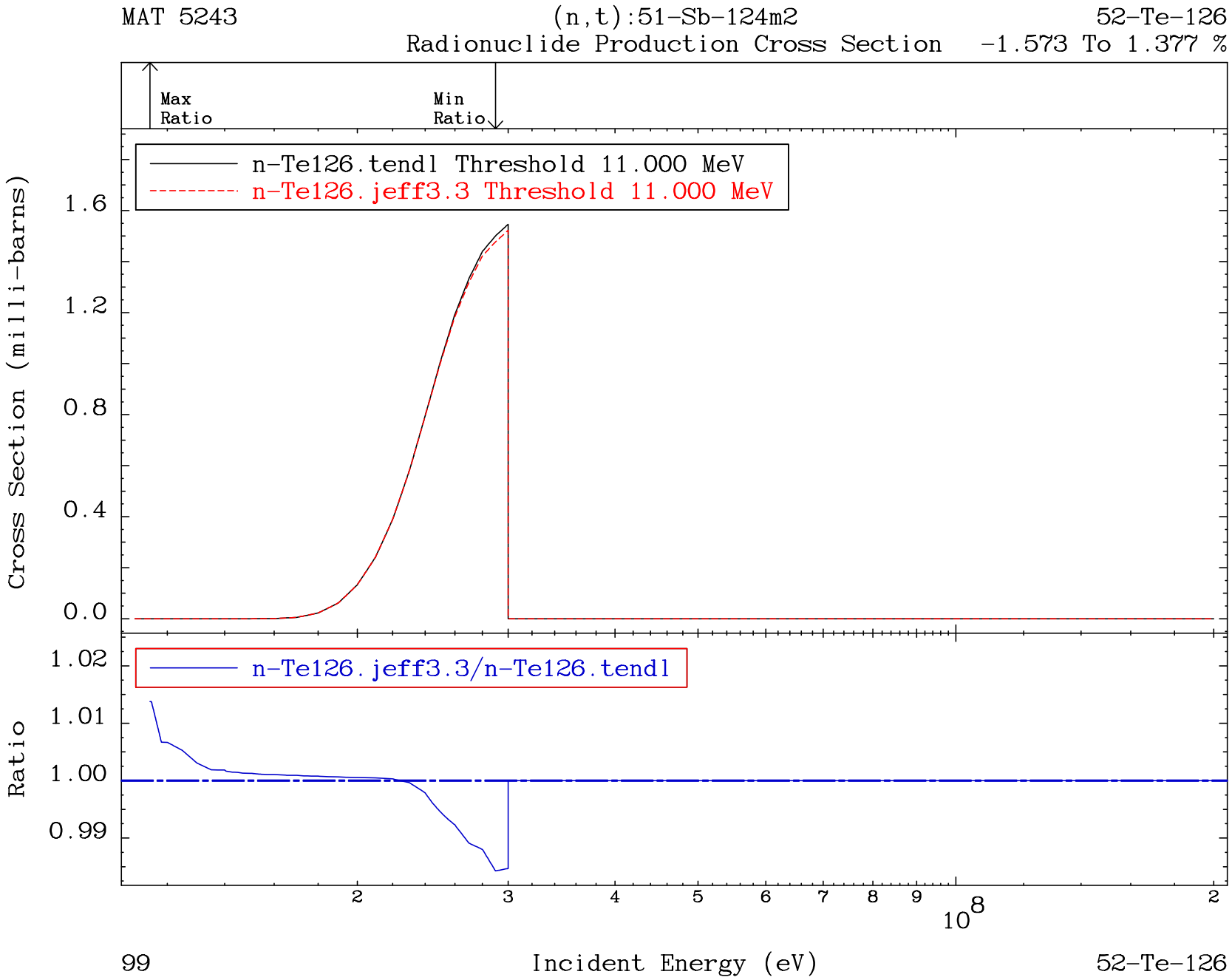

MAT 5243
(n,p):51-Sb-126g
52-Te-126
Radionuclide Production Cross Section -2.384 To 0.726 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 3.6000 MeV
n-Te126.jeff3.3 Threshold 3.6000 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
n-Te126.jeff3.3/n-Te126.tendl
Ratio
0.98
0.99
1.00
1.01
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
94
Incident Energy (eV)
52-Te-126

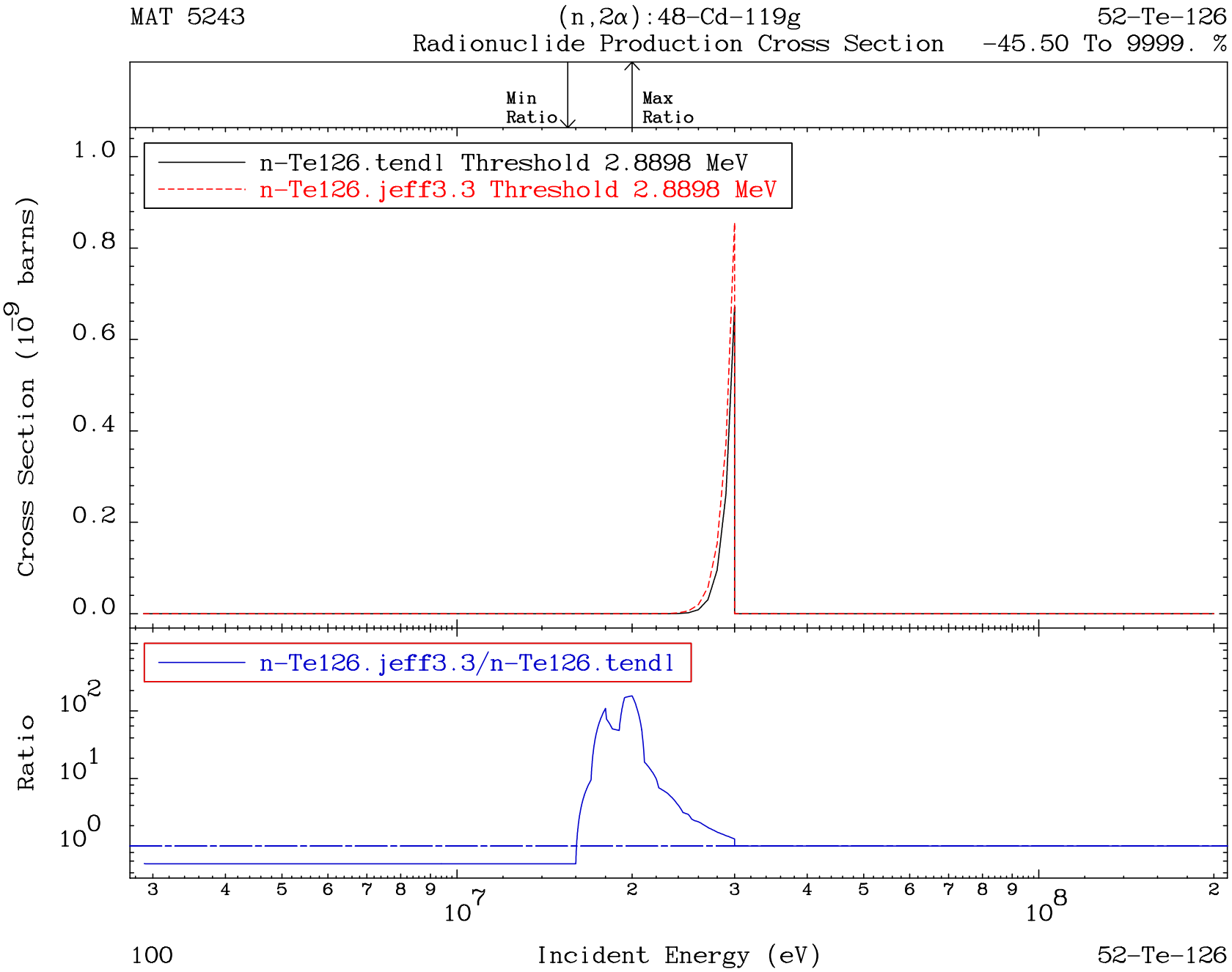

MAT 5243
(n,p):51-Sb-126m1
52-Te-126
Radionuclide Production Cross Section -1.443 To 0.950 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.9308 MeV
n-Te126.jeff3.3 Threshold 2.9308 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Te126.jeff3.3/n-Te126.tendl
Ratio
0.99
1.00
1.01
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
95
Incident Energy (eV)
52-Te-126

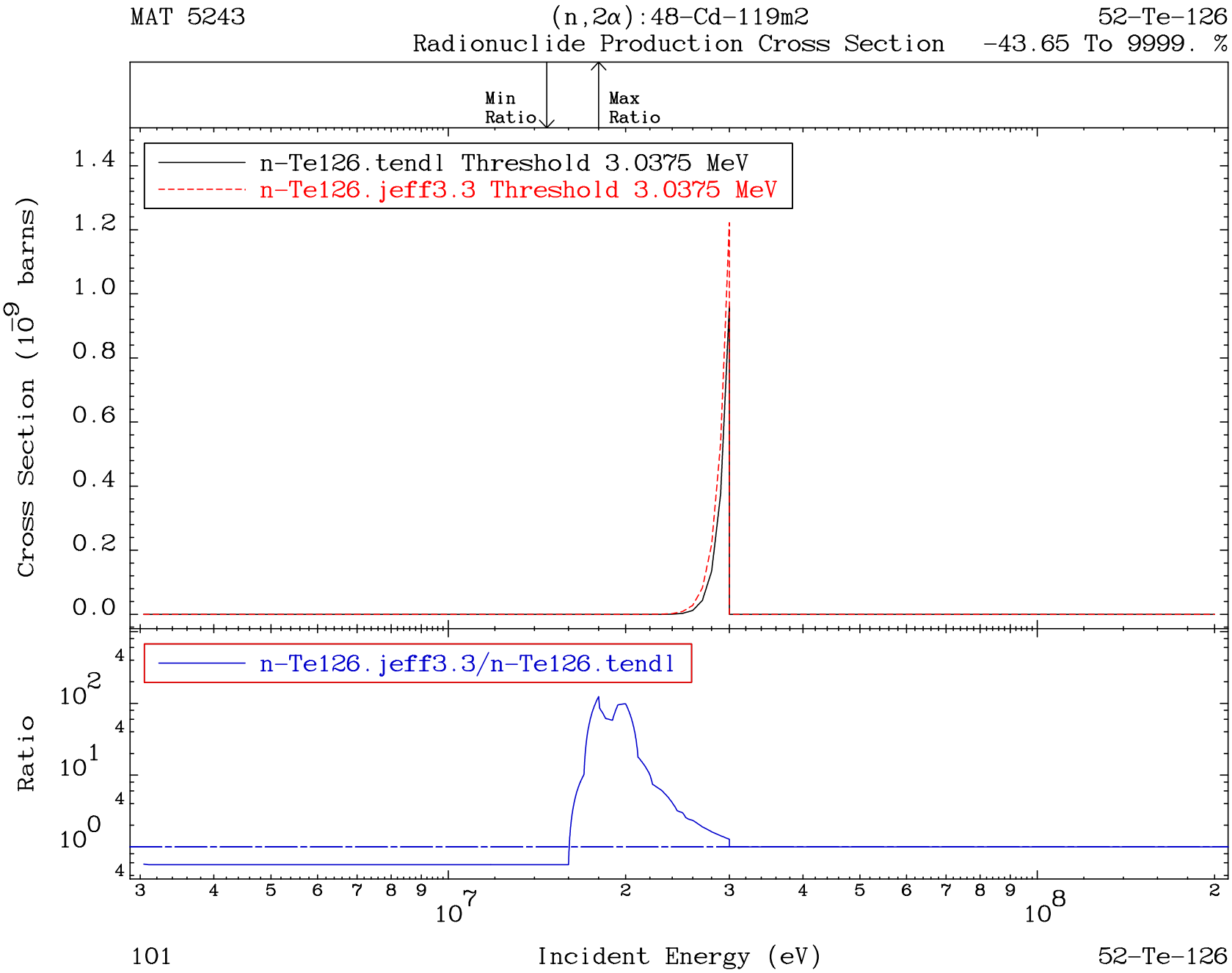

MAT 5243
(n,p):51-Sb-126m2
52-Te-126
Radionuclide Production Cross Section -1.088 To 0.726 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 2.9536 MeV
n-Te126.jeff3.3 Threshold 2.9536 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
96
Incident Energy (eV)
52-Te-126

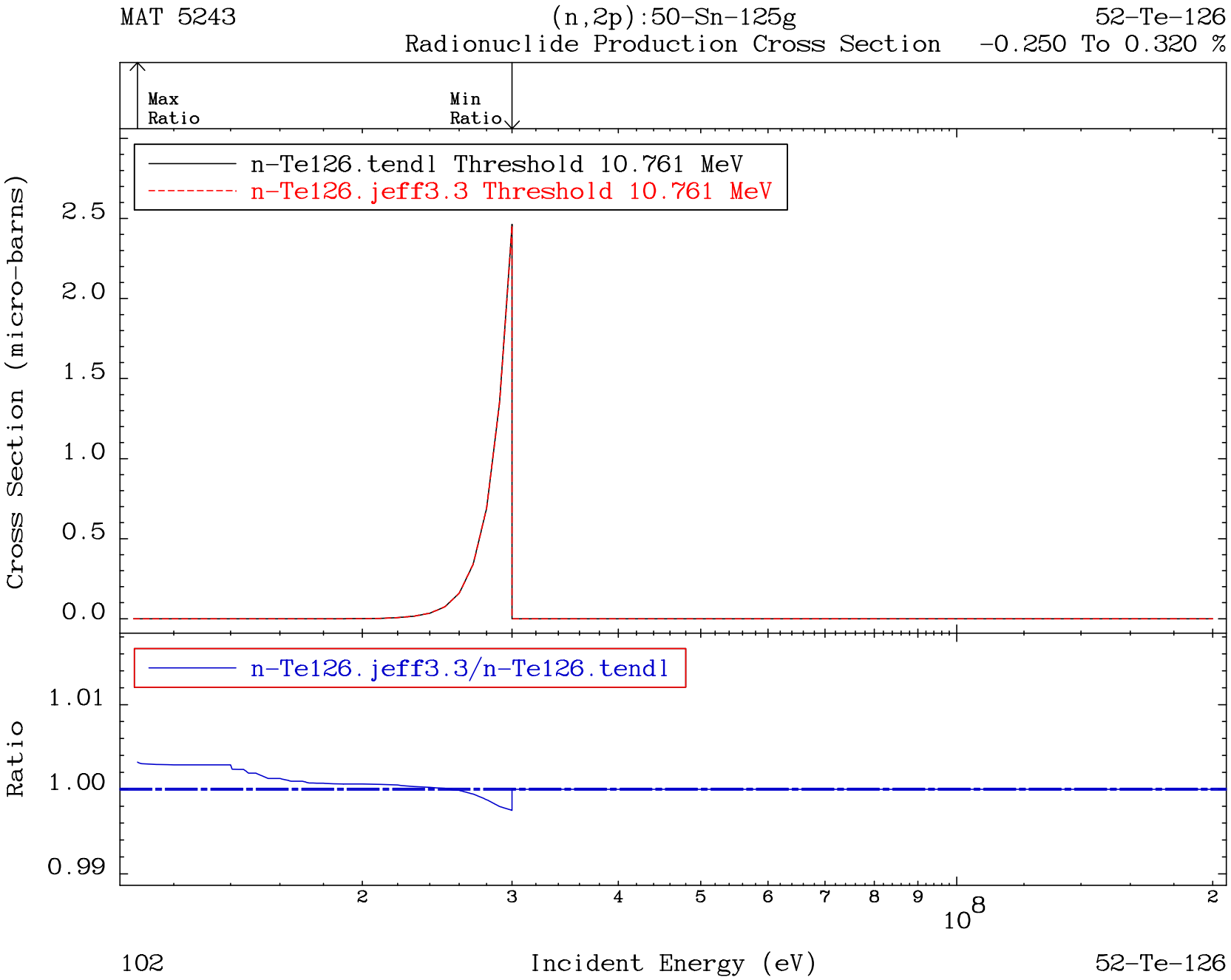

MAT 5243
(n,t):51-Sb-124g
52-Te-126
Radionuclide Production Cross Section
-2.906 To 8.276 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 9.3983 MeV
n-Te126.jeff3.3 Threshold 9.3983 MeV
Cross Section (milli-barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.10
1.05
1.00
10^7
2
3
4
5
6
7
8
9
10^8
2
97
Incident Energy (eV)
52-Te-126

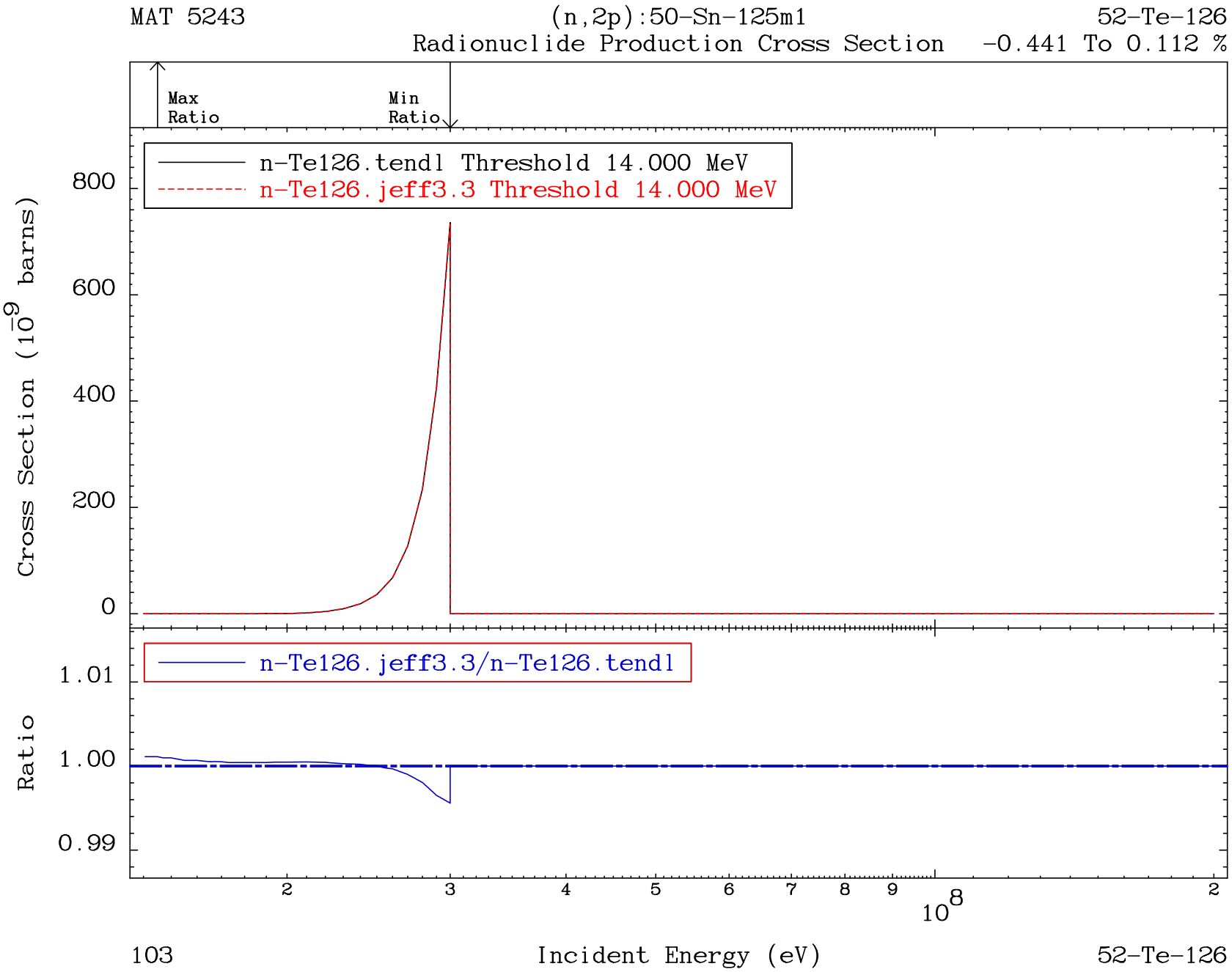

MAT 5243
(n,t):51-Sb-124m1
52-Te-126
Radionuclide Production Cross Section -4.082 To 4.194 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 9.4092 MeV
n-Te126.jeff3.3 Threshold 9.4092 MeV
Cross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.04
1.00
0.96
10^7
2
3
4
5
6
7
8
9
10^8
2
98
Incident Energy (eV)
52-Te-126

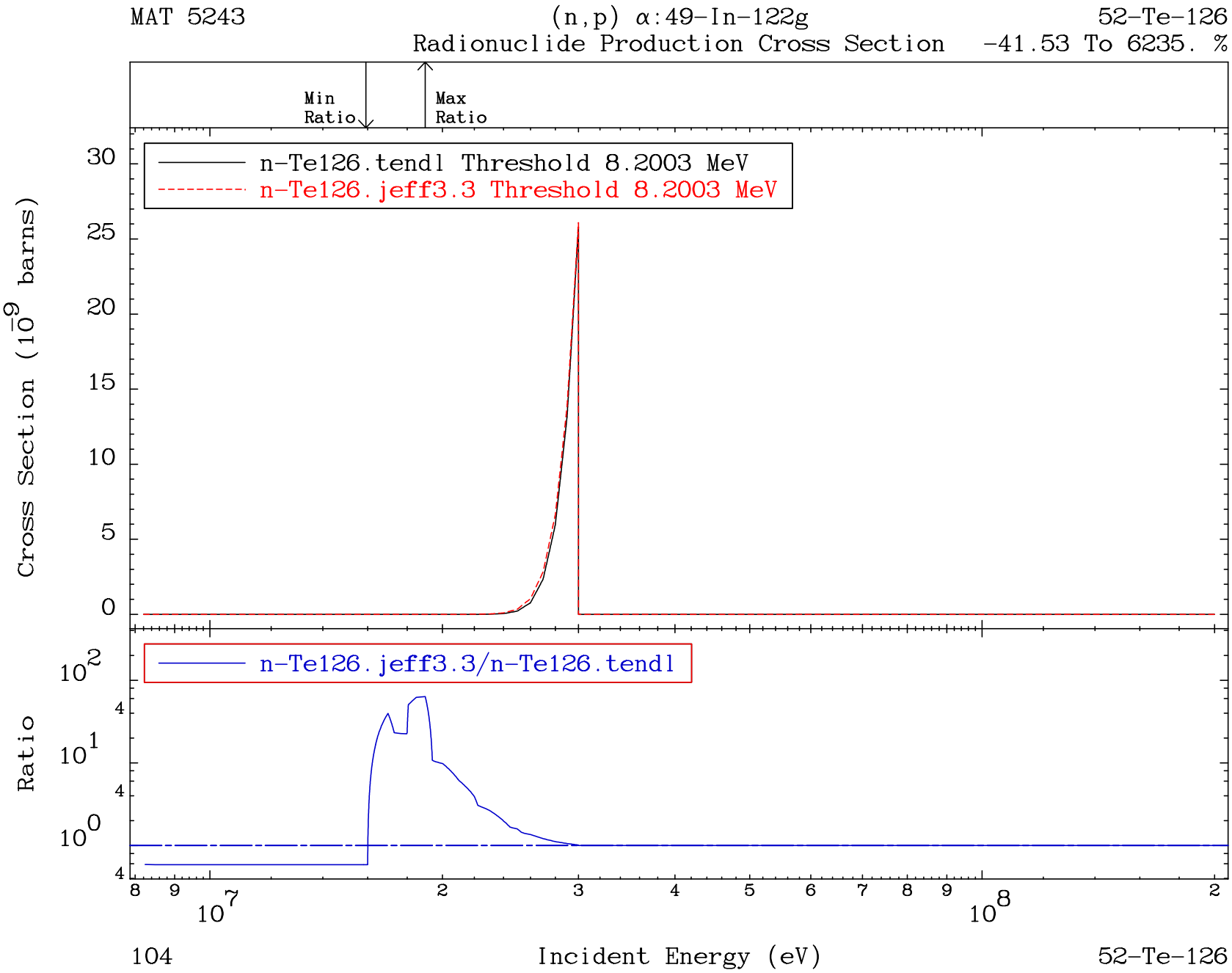

MAT 5243
(n,t):51-Sb-124m2
52-Te-126
Radionuclide Production Cross Section -1.573 To 1.377 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 11.000 MeV
n-Te126.jeff3.3 Threshold 11.000 MeV
Cross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.02
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
99
Incident Energy (eV)
52-Te-126

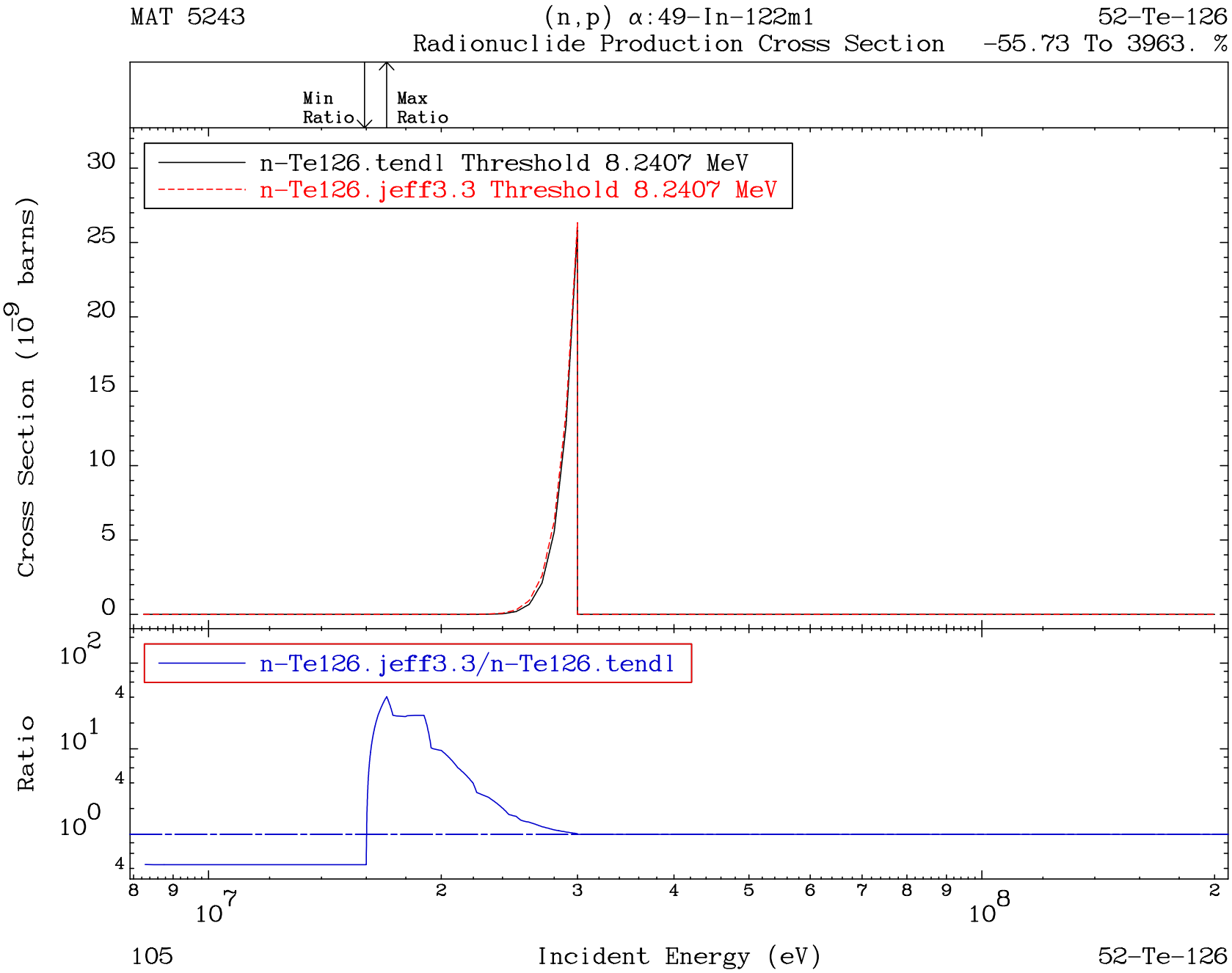

MAT 5243
(n,2α):48-Cd-119g
52-Te-126
Radionuclide Production Cross Section -45.50 To 9999. %
Min Ratio
Max Ratio
n-Te126.tendl Threshold 2.8898 MeV
n-Te126.jeff3.3 Threshold 2.8898 MeV
Cross Section (10^{-9} barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
10^{2}
10^{1}
10^{0}
3 4 5 6 7 8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
100
Incident Energy (eV)
52-Te-126

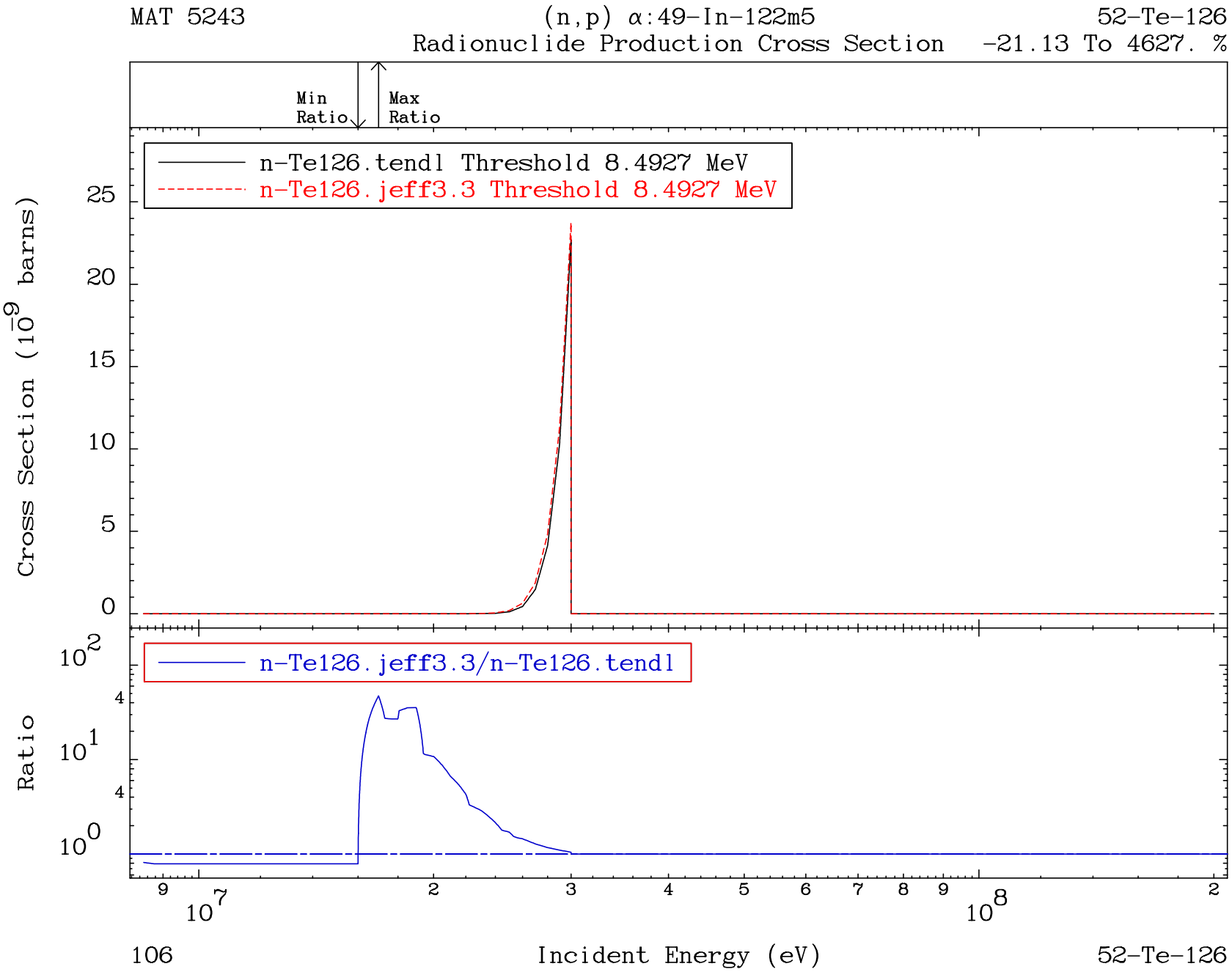

MAT 5243
(n,2α):48-Cd-119m2
52-Te-126
Radionuclide Production Cross Section -43.65 To 9999. %
Min Ratio
Max Ratio
n-Te126.tendl Threshold 3.0375 MeV
n-Te126.jeff3.3 Threshold 3.0375 MeV
Cross Section (10^{-9} barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
10^{2}
10^{1}
10^{0}
3 4 5 6 7 8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
101
Incident Energy (eV)
52-Te-126

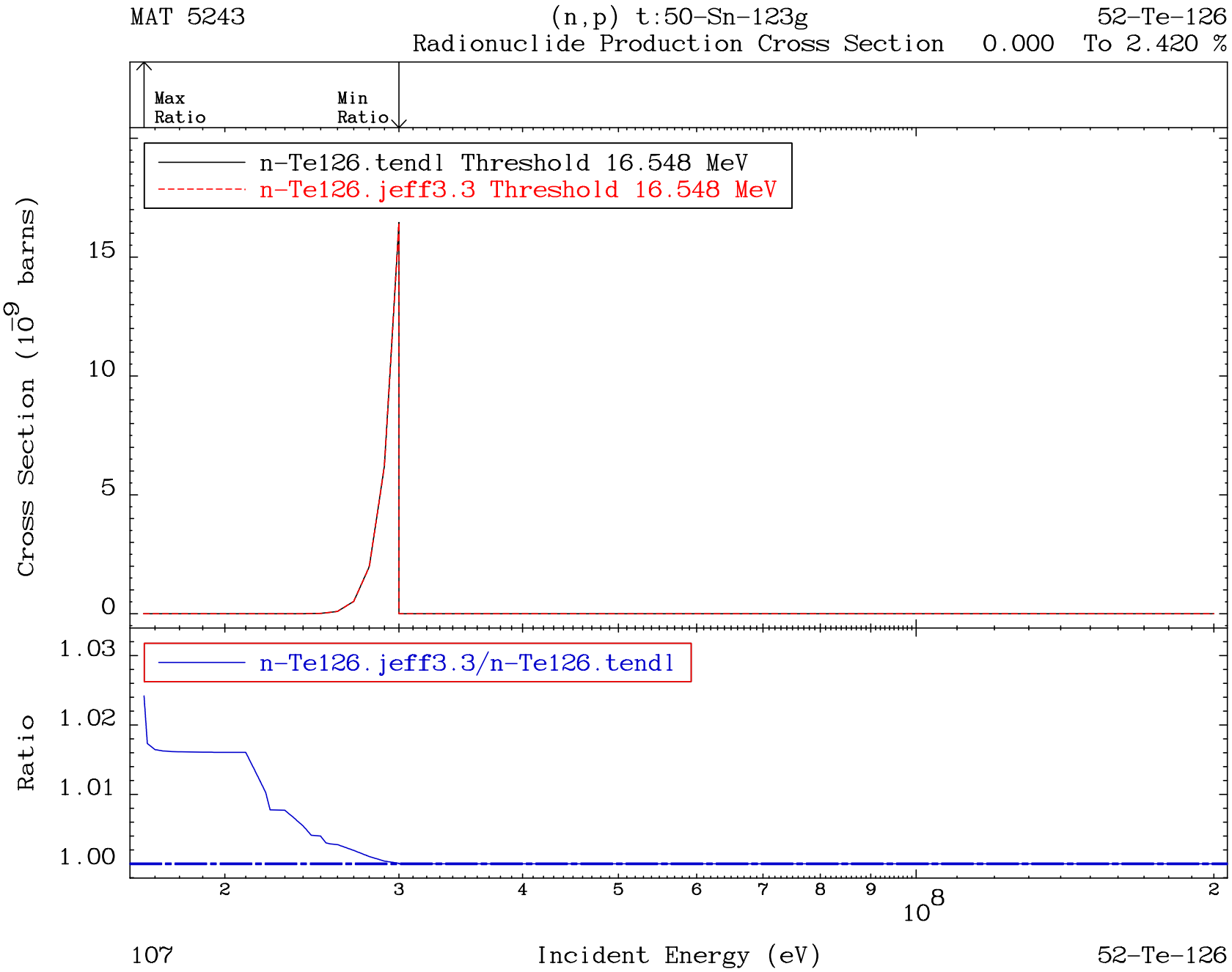

MAT 5243
(n,2p):50-Sn-125g
52-Te-126
Radionuclide Production Cross Section
-0.250 To 0.320 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 10.761 MeV
n-Te126.jeff3.3 Threshold 10.761 MeV
Cross Section (micro-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
102
Incident Energy (eV)
52-Te-126

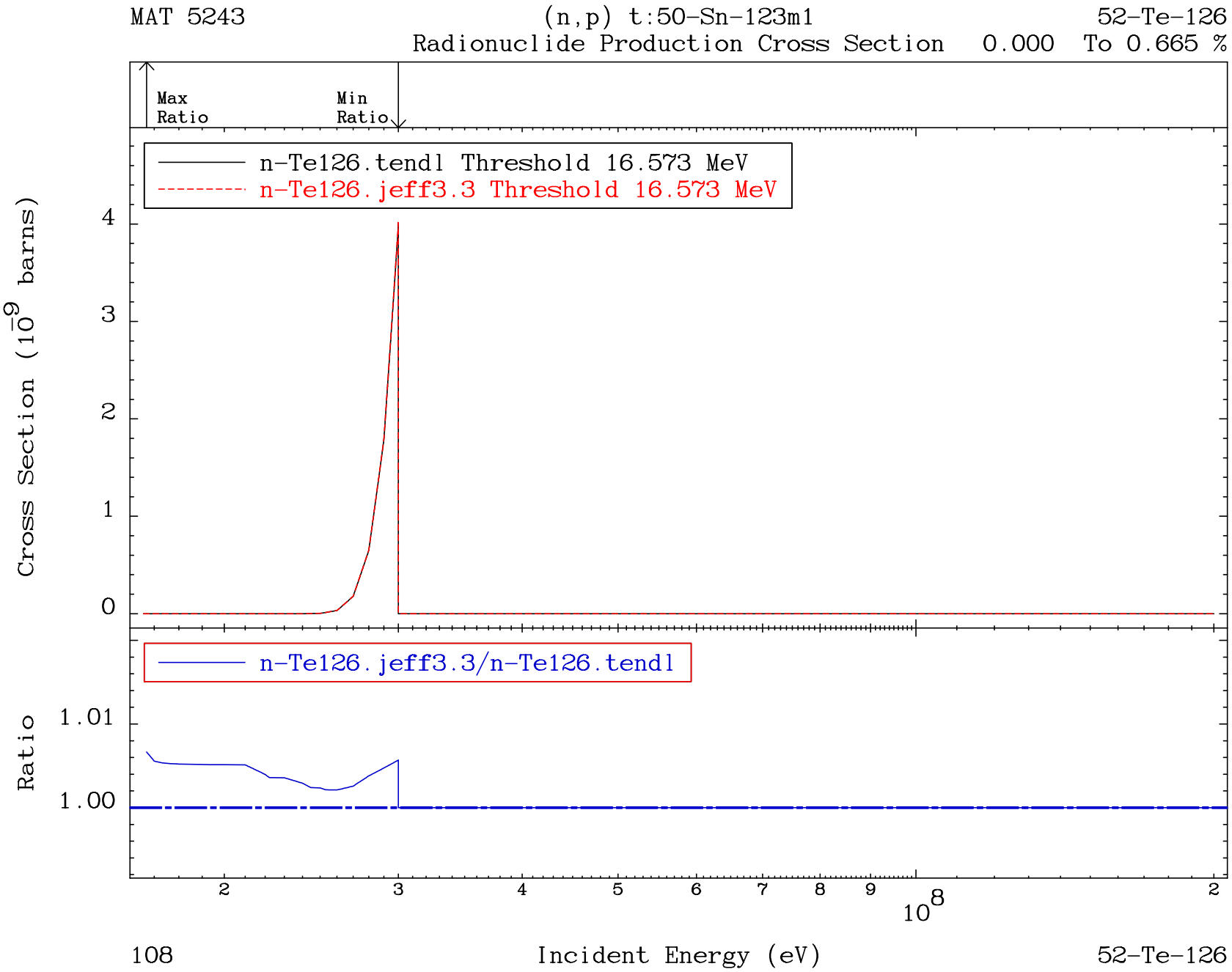

MAT 5243
(n,2p):50-Sn-125m1
52-Te-126
Radionuclide Production Cross Section -0.441 To 0.112 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 14.000 MeV
n-Te126.jeff3.3 Threshold 14.000 MeV
Cross Section (10^{-9} barns)
800
600
400
200
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
103
Incident Energy (eV)
52-Te-126


MAT 5243
(n,p) α:49-In-122g
52-Te-126
Radionuclide Production Cross Section -41.53 To 6235. %
Min Ratio
Max Ratio
n-Te126.tendl Threshold 8.2003 MeV
n-Te126.jeff3.3 Threshold 8.2003 MeV
Cross Section (10^{-9} barns)
30
25
20
15
10
5
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
10^{2}
10^{1}
10^{0}
4
8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
104
Incident Energy (eV)
52-Te-126


MAT 5243
(n,p) α:49-In-122m1
52-Te-126
Radionuclide Production Cross Section -55.73 To 3963. %
Min Ratio
Max Ratio
n-Te126.tendl Threshold 8.2407 MeV
n-Te126.jeff3.3 Threshold 8.2407 MeV
Cross Section (10^{-9} barns)
30
25
20
15
10
5
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
10^{2}
10^{1}
10^{0}
4
4
4
8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
105
Incident Energy (eV)
52-Te-126


MAT 5243
(n,p) α:49-In-122m5
52-Te-126
Radionuclide Production Cross Section -21.13 To 4627. %
Min Ratio
Max Ratio
n-Te126.tendl Threshold 8.4927 MeV
n-Te126.jeff3.3 Threshold 8.4927 MeV
Cross Section (10^{-9} barns)
n-Te126.jeff3.3/n-Te126.tendl
Ratio
Incident Energy (eV)
106
52-Te-126


MAT 5243
(n,p) t:50-Sn-123g
52-Te-126
Radionuclide Production Cross Section 0.000 To 2.420 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 16.548 MeV
n-Te126.jeff3.3 Threshold 16.548 MeV
Cross Section (10^{-9} barns)
15
10
5
0
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.03
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
107
Incident Energy (eV)
52-Te-126


MAT 5243
(n,p) t:50-Sn-123m1
52-Te-126
Radionuclide Production Cross Section 0.000 To 0.665 %
Max Ratio
Min Ratio
n-Te126.tendl Threshold 16.573 MeV
n-Te126.jeff3.3 Threshold 16.573 MeV
Cross Section (10^{-9} barns)
0
1
2
3
4
n-Te126.jeff3.3/n-Te126.tendl
Ratio
1.00
1.01
2
3
4
5
6
7
8
9
10^8
2
108
Incident Energy (eV)
52-Te-126