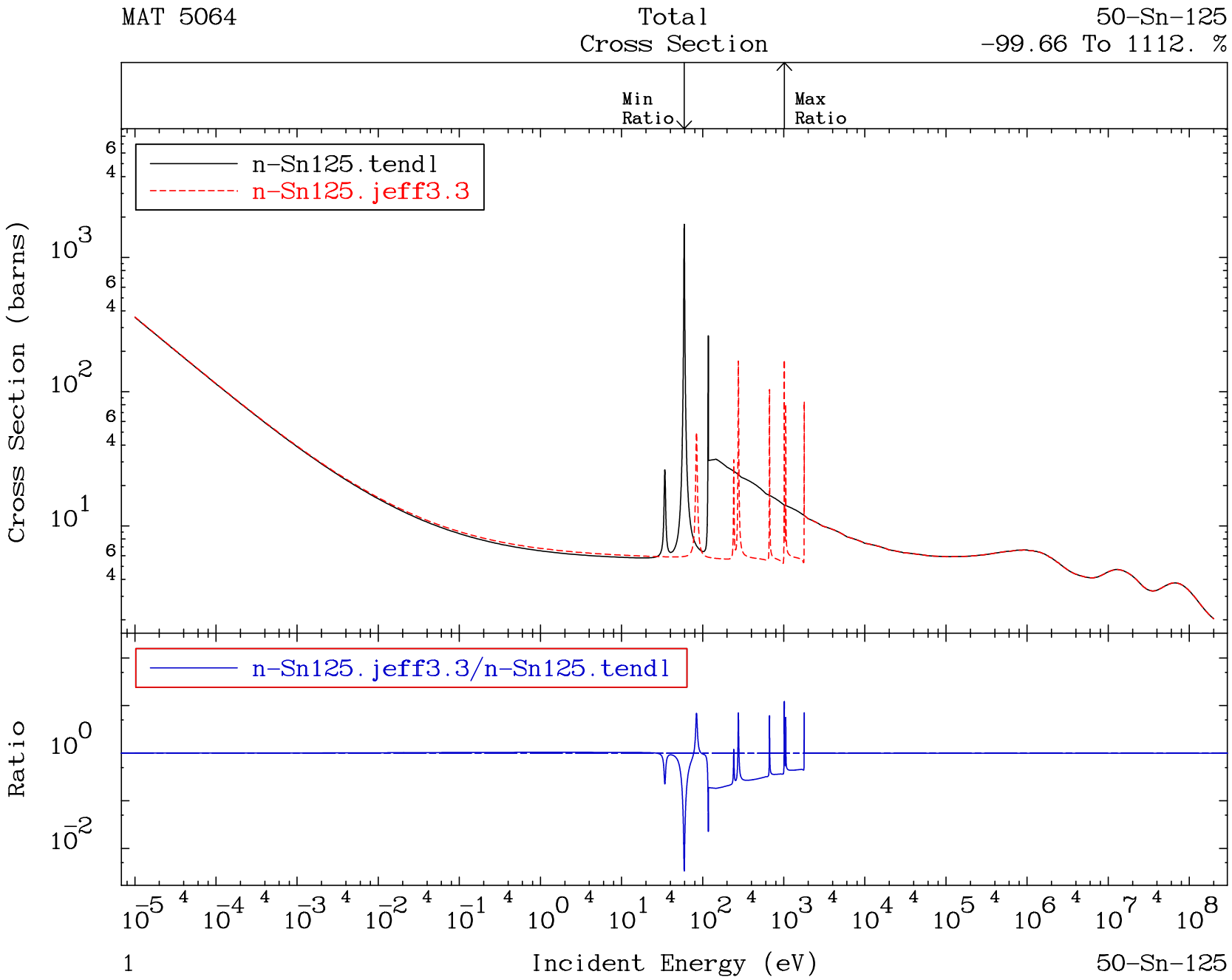
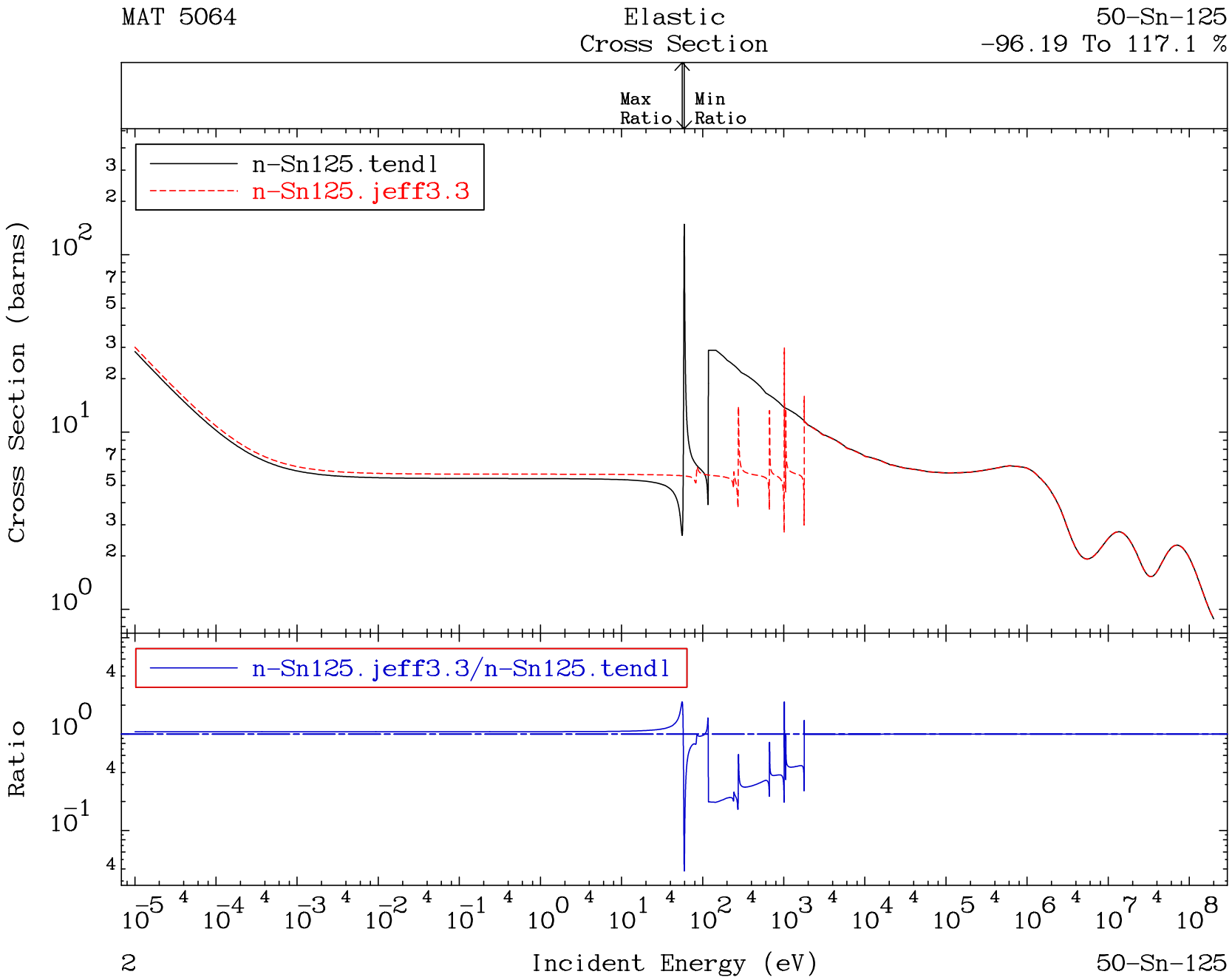
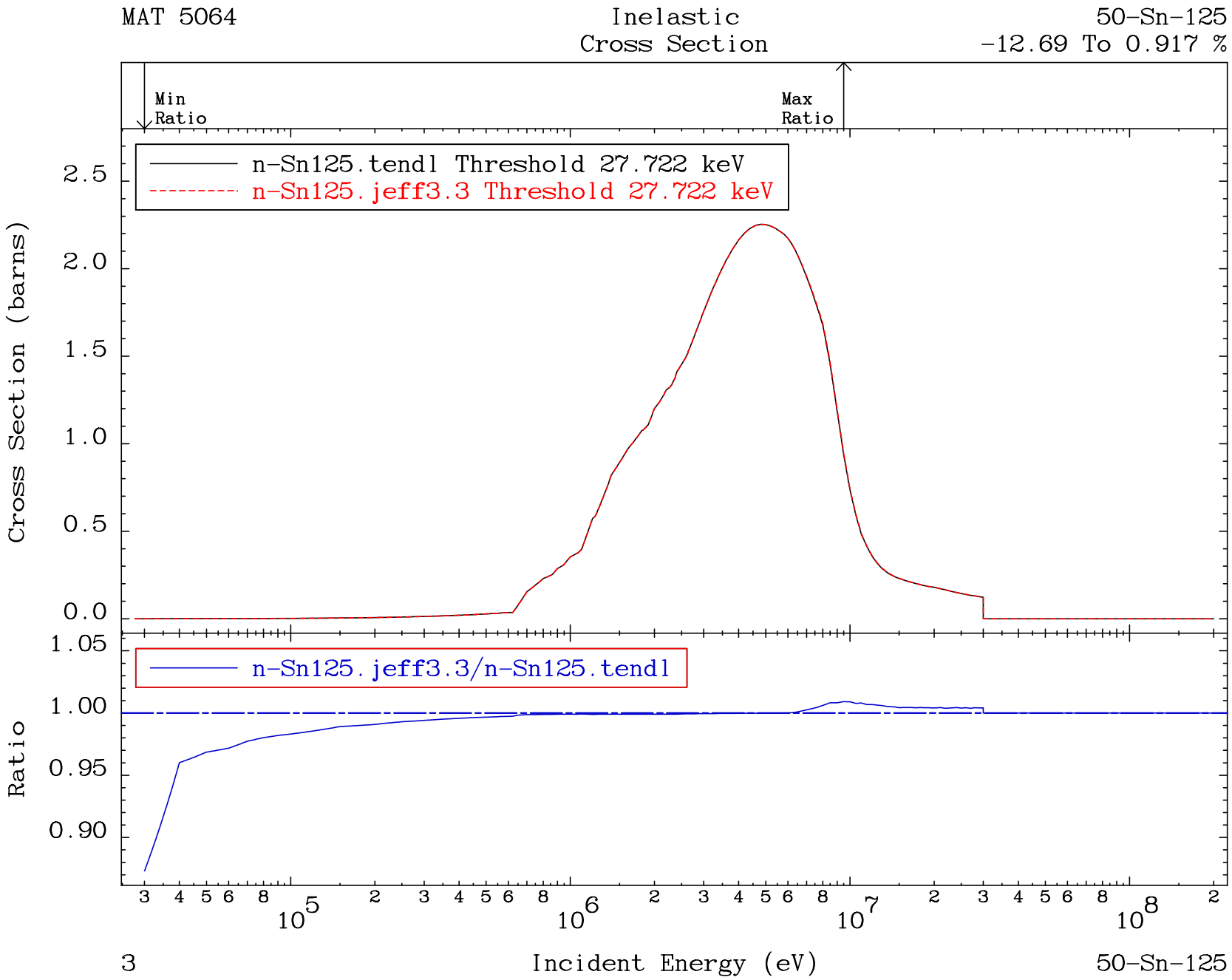
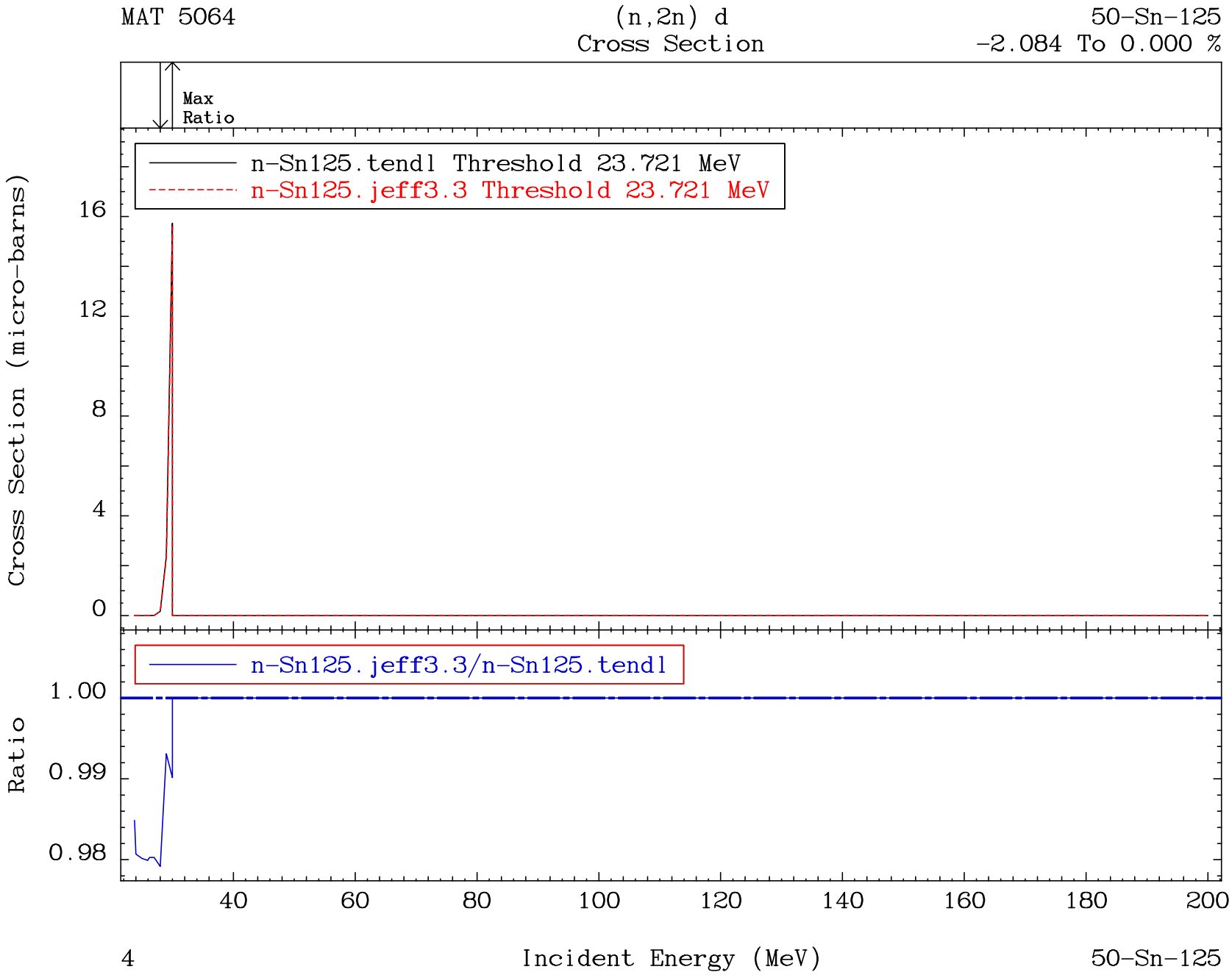
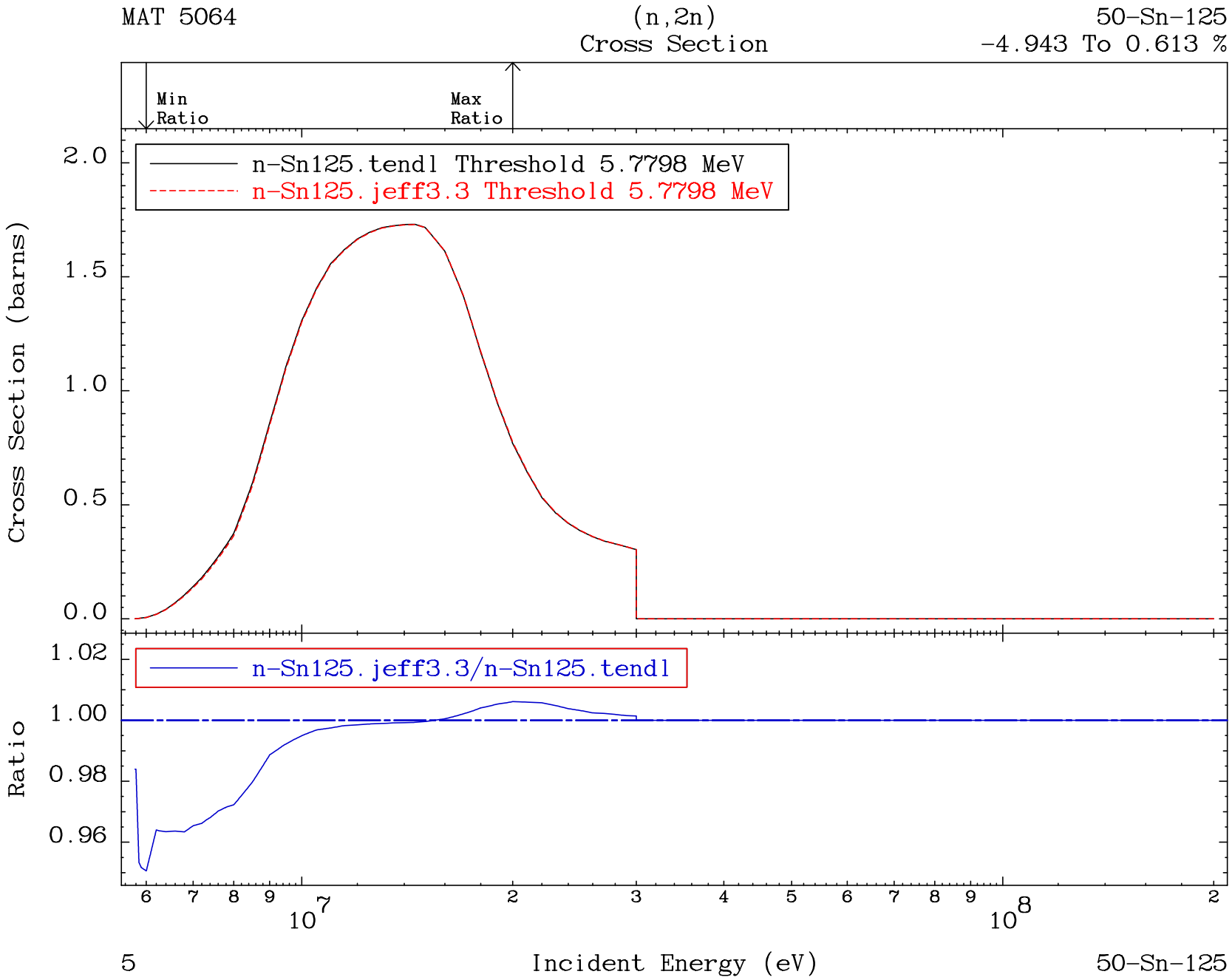
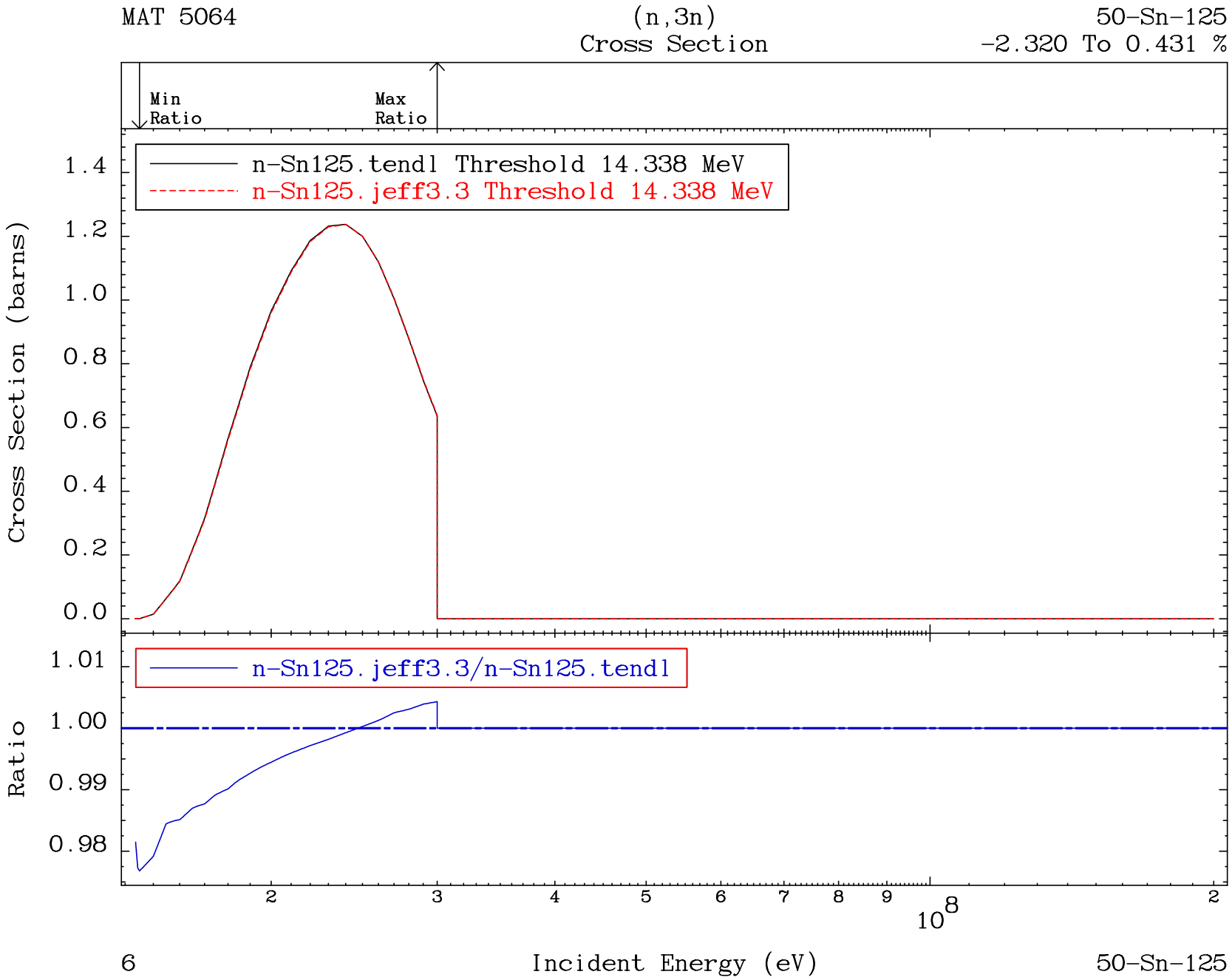

MAT 5064
Total
Cross Section
50-Sn-125
-99.66 To 1112. %
Min
Ratio
Max
Ratio
n-Sn125.tendl
n-Sn125.jeff3.3
Cross Section (barns)
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
Incident Energy (eV)
1
50-Sn-125

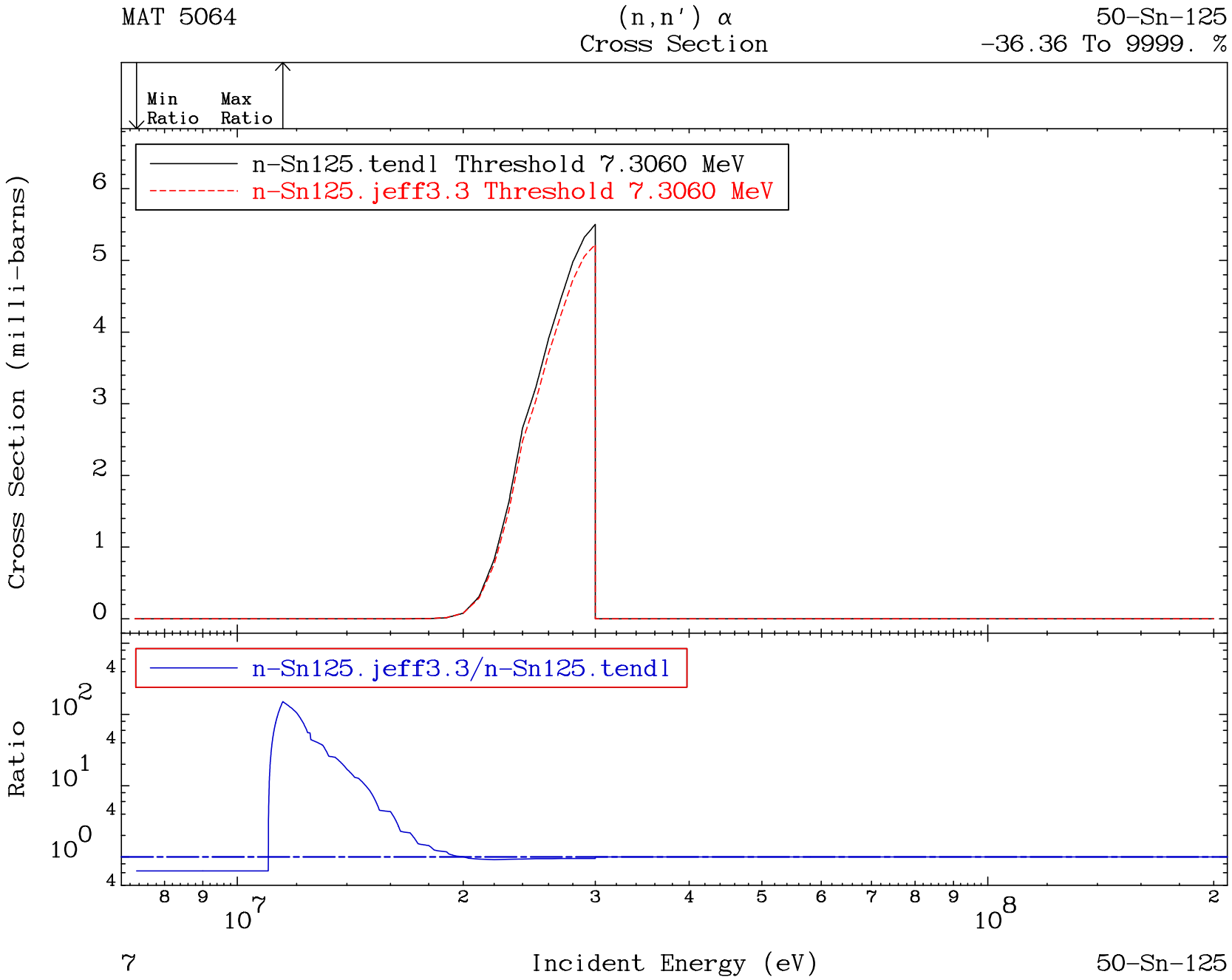

MAT 5064
Elastic
Cross Section
50-Sn-125
-96.19 To 117.1 %
Max Ratio
Min Ratio
n-Sn125.tendl
n-Sn125.jeff3.3
Cross Section (barns)
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
Incident Energy (eV)
2
50-Sn-125

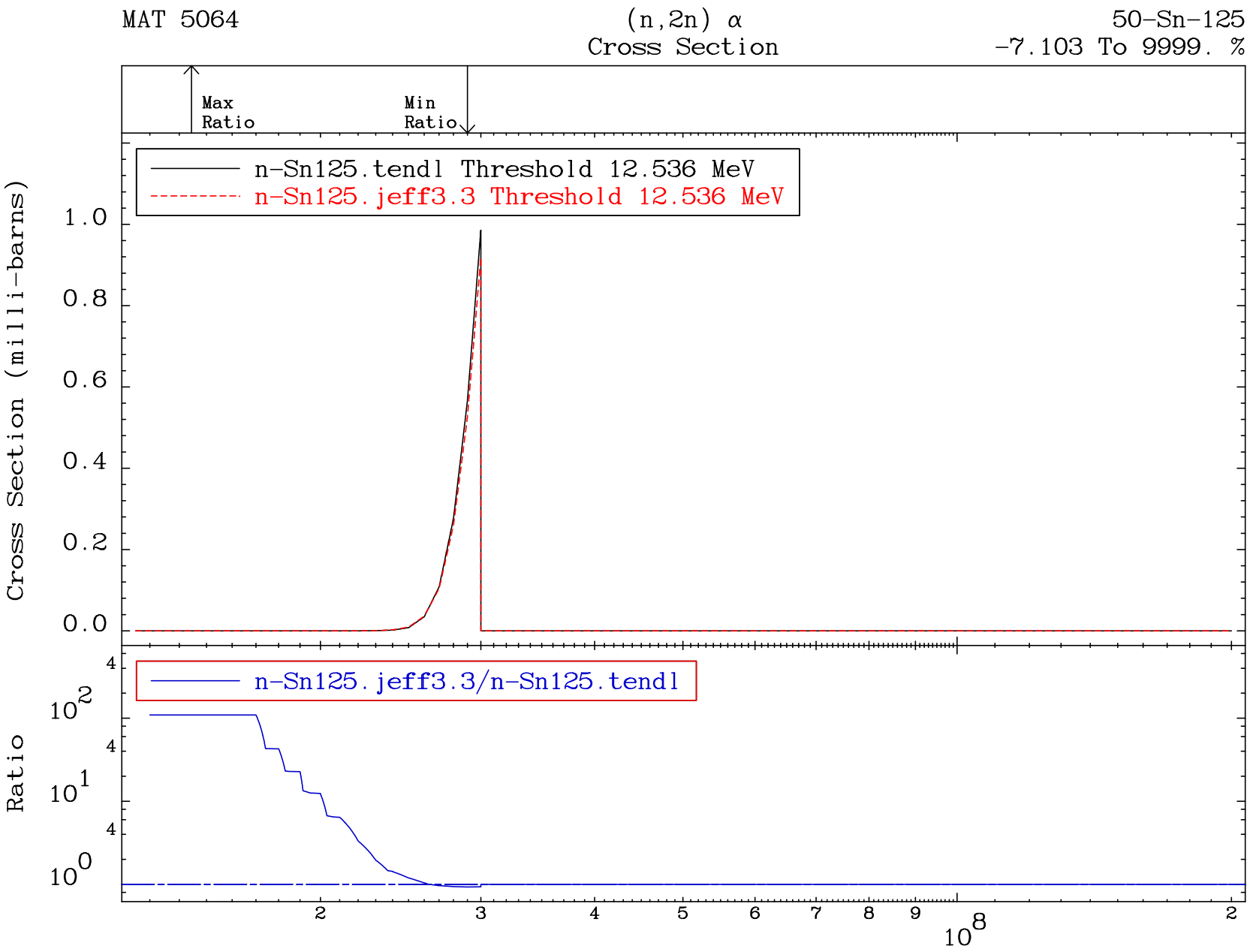

MAT 5064
Inelastic
Cross Section
50-Sn-125
-12.69 To 0.917 %
Min
Ratio
Max
Ratio
n-Sn125.tendl Threshold 27.722 keV
n-Sn125.jeff3.3 Threshold 27.722 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.05
1.00
0.95
0.90
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
50-Sn-125

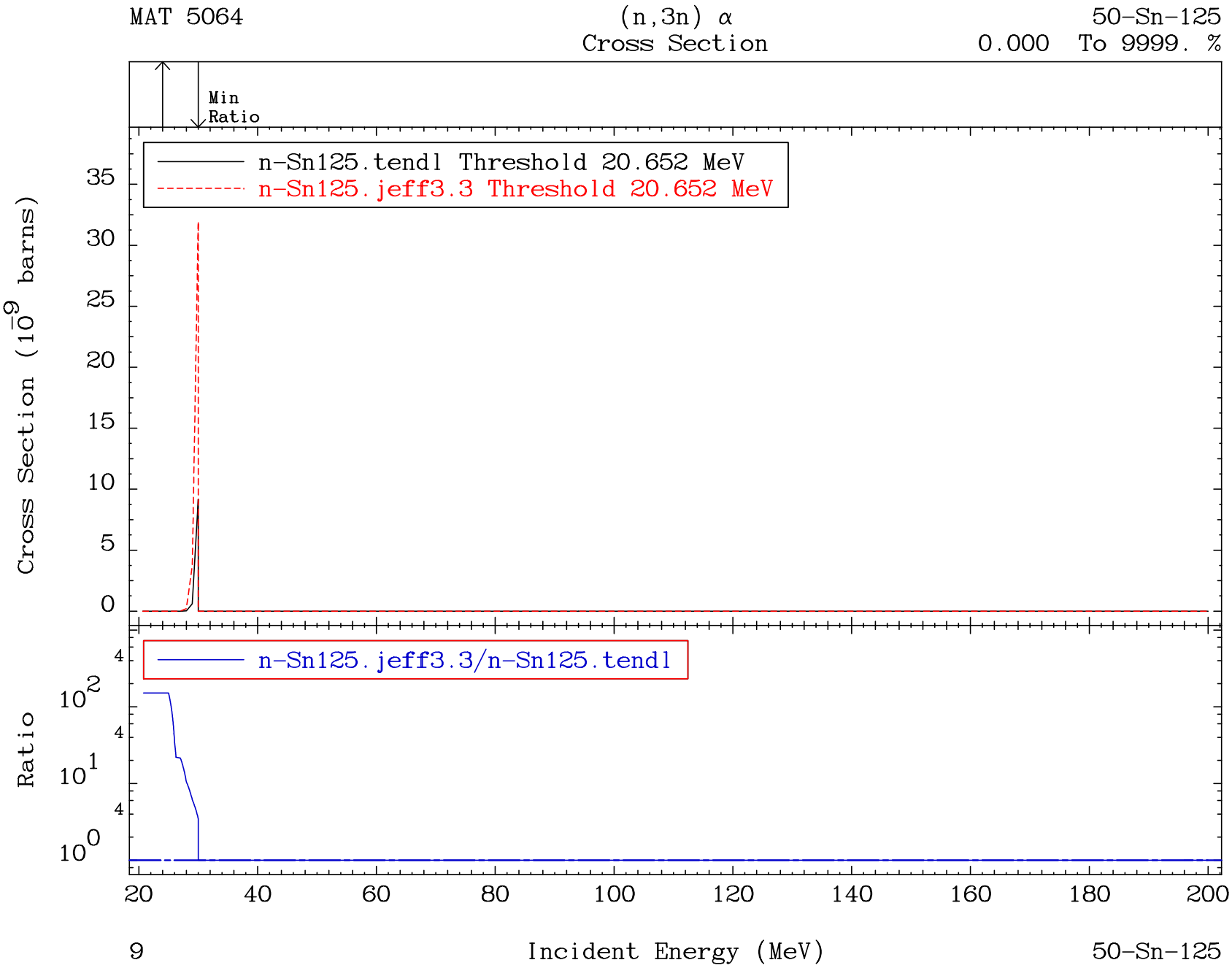

MAT 5064
(n,2n) d
Cross Section
50-Sn-125
-2.084 To 0.000 %
Max
Ratio
n-Sn125.tendl Threshold 23.721 MeV
n-Sn125.jeff3.3 Threshold 23.721 MeV
Cross Section (micro-barns)
16
12
8
4
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.00
0.99
0.98
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
50-Sn-125

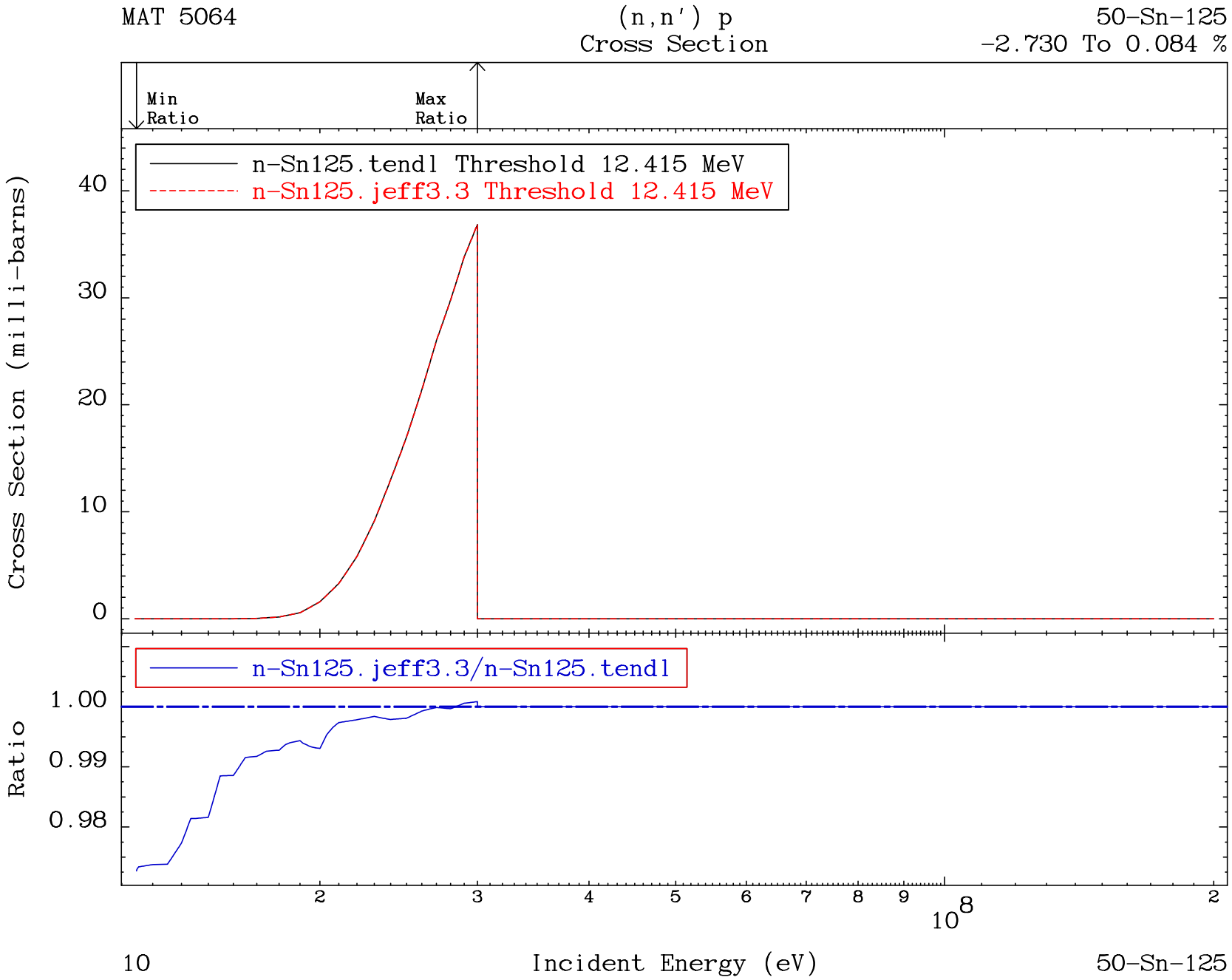

MAT 5064
(n,2n)
Cross Section
50-Sn-125
-4.943 To 0.613 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 5.7798 MeV
n-Sn125.jeff3.3 Threshold 5.7798 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.02
1.00
0.98
0.96
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
50-Sn-125

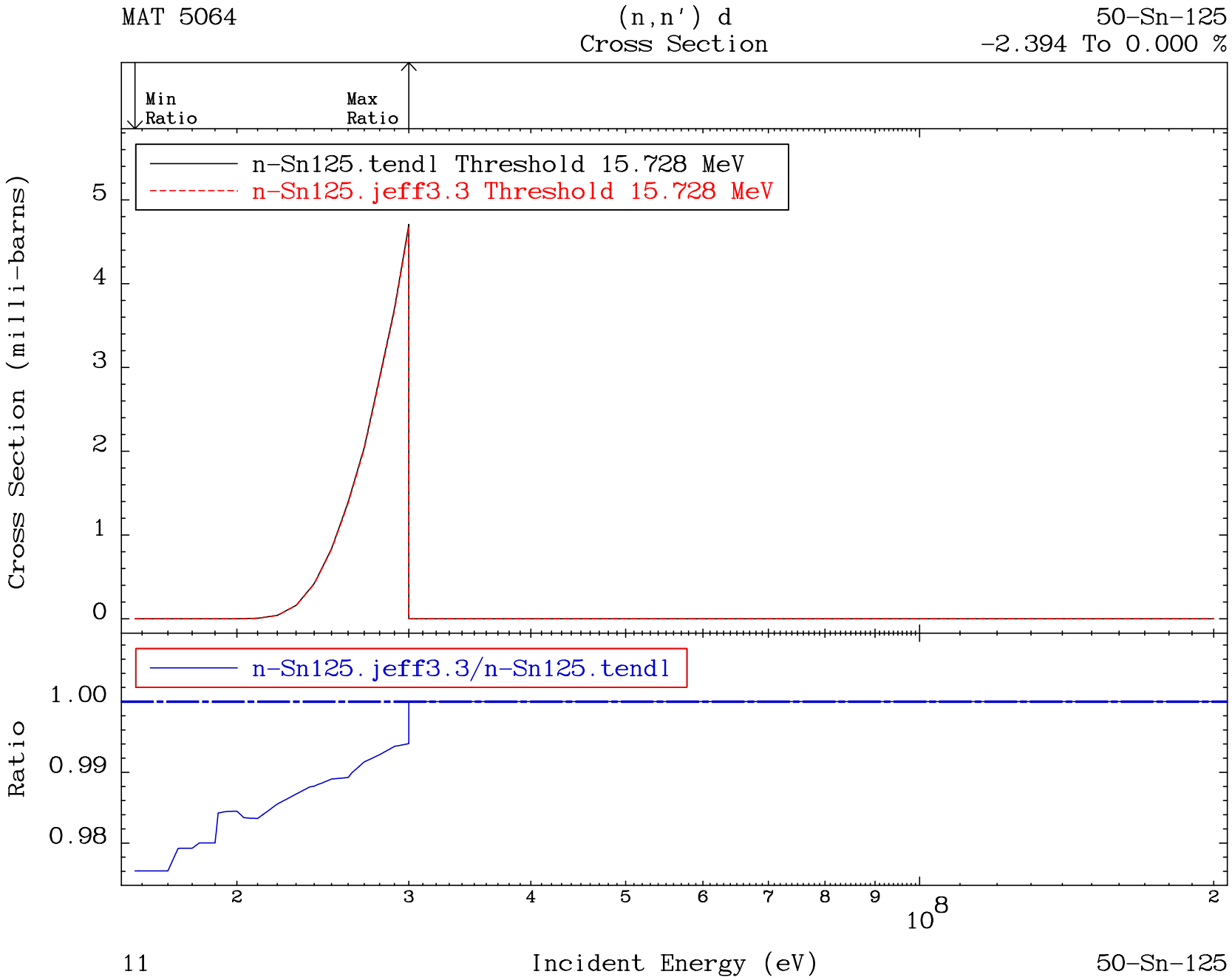

MAT 5064
(n,3n)
Cross Section
50-Sn-125
-2.320 To 0.431 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 14.338 MeV
n-Sn125.jeff3.3 Threshold 14.338 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
50-Sn-125

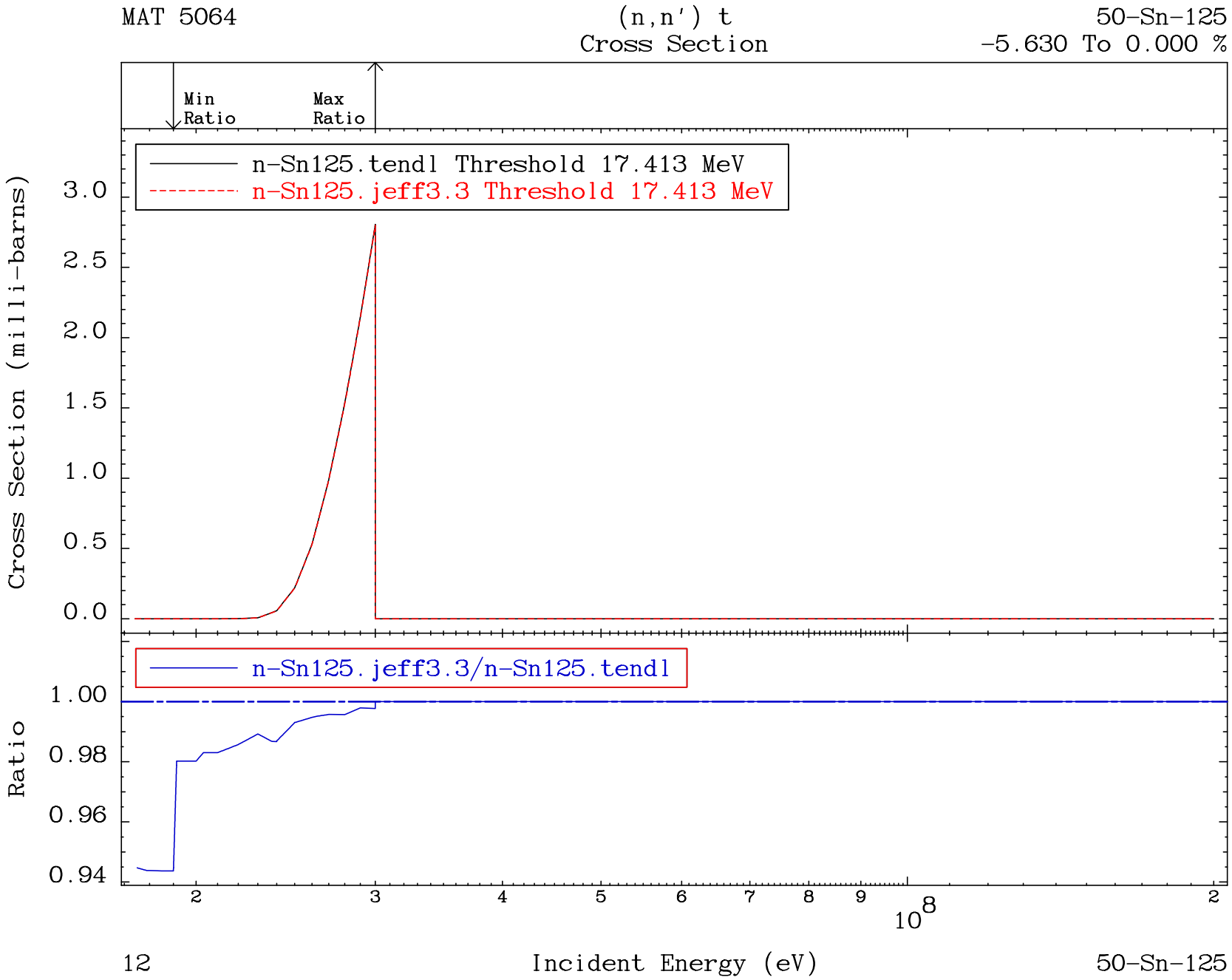

MAT 5064
(n,n') α
Cross Section
50-Sn-125
-36.36 To 9999. %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 7.3060 MeV
n-Sn125.jeff3.3 Threshold 7.3060 MeV
Cross Section (milli-barns)
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
Incident Energy (eV)
50-Sn-125

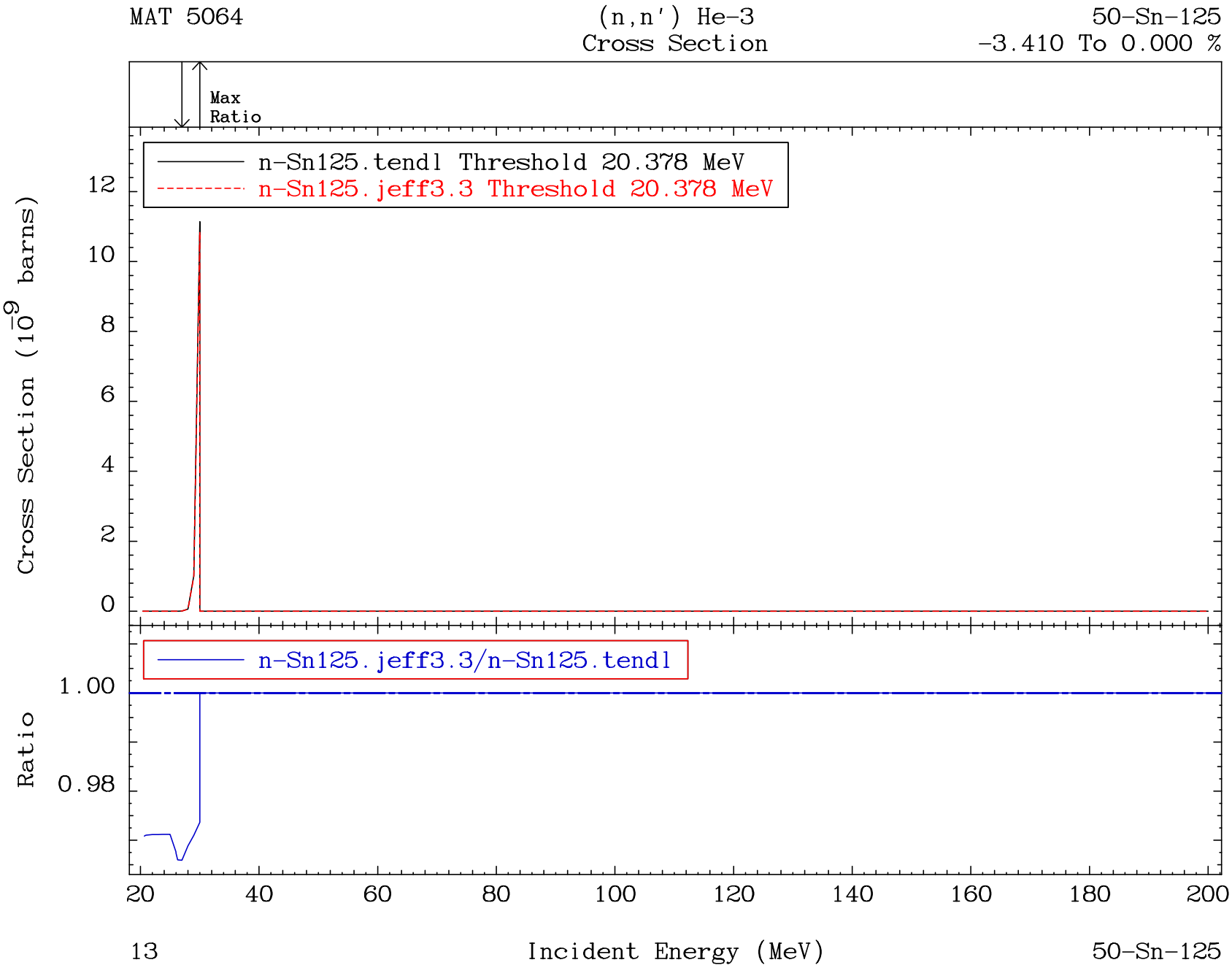

MAT 5064
(n,2n) α
Cross Section
50-Sn-125
-7.103 To 9999. %
Max Ratio
Min Ratio
n-Sn125.tendl Threshold 12.536 MeV
n-Sn125.jeff3.3 Threshold 12.536 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
50-Sn-125

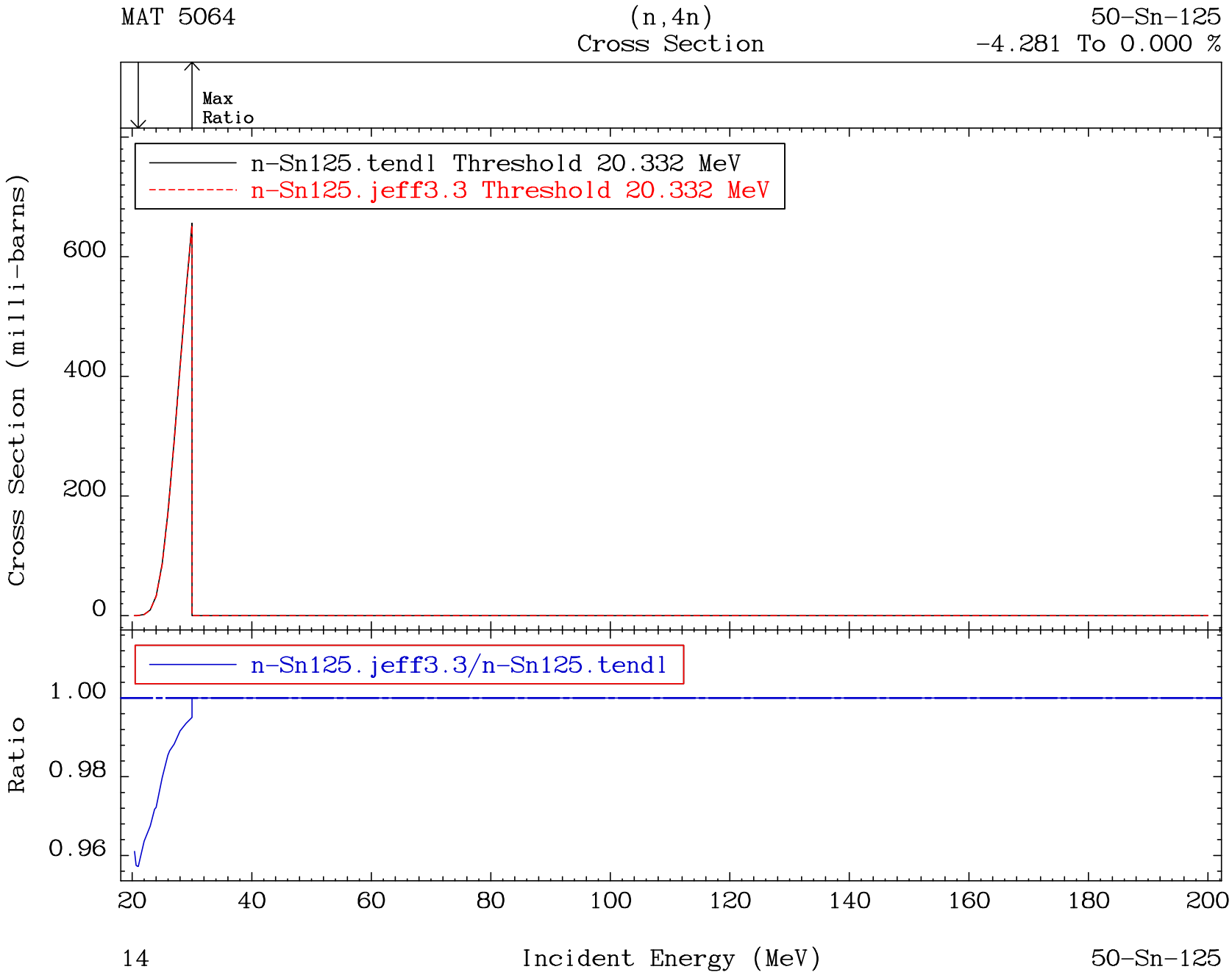

MAT 5064
(n,3n) α
Cross Section
50-Sn-125
0.000 To 9999. %
Min
Ratio
n-Sn125.tendl Threshold 20.652 MeV
n-Sn125.jeff3.3 Threshold 20.652 MeV
Cross Section (10^-9 barns)
35
30
25
20
15
10
5
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
10^2
10^1
10^0
20
40
60
80
100
120
140
160
180
200
9
Incident Energy (MeV)
50-Sn-125

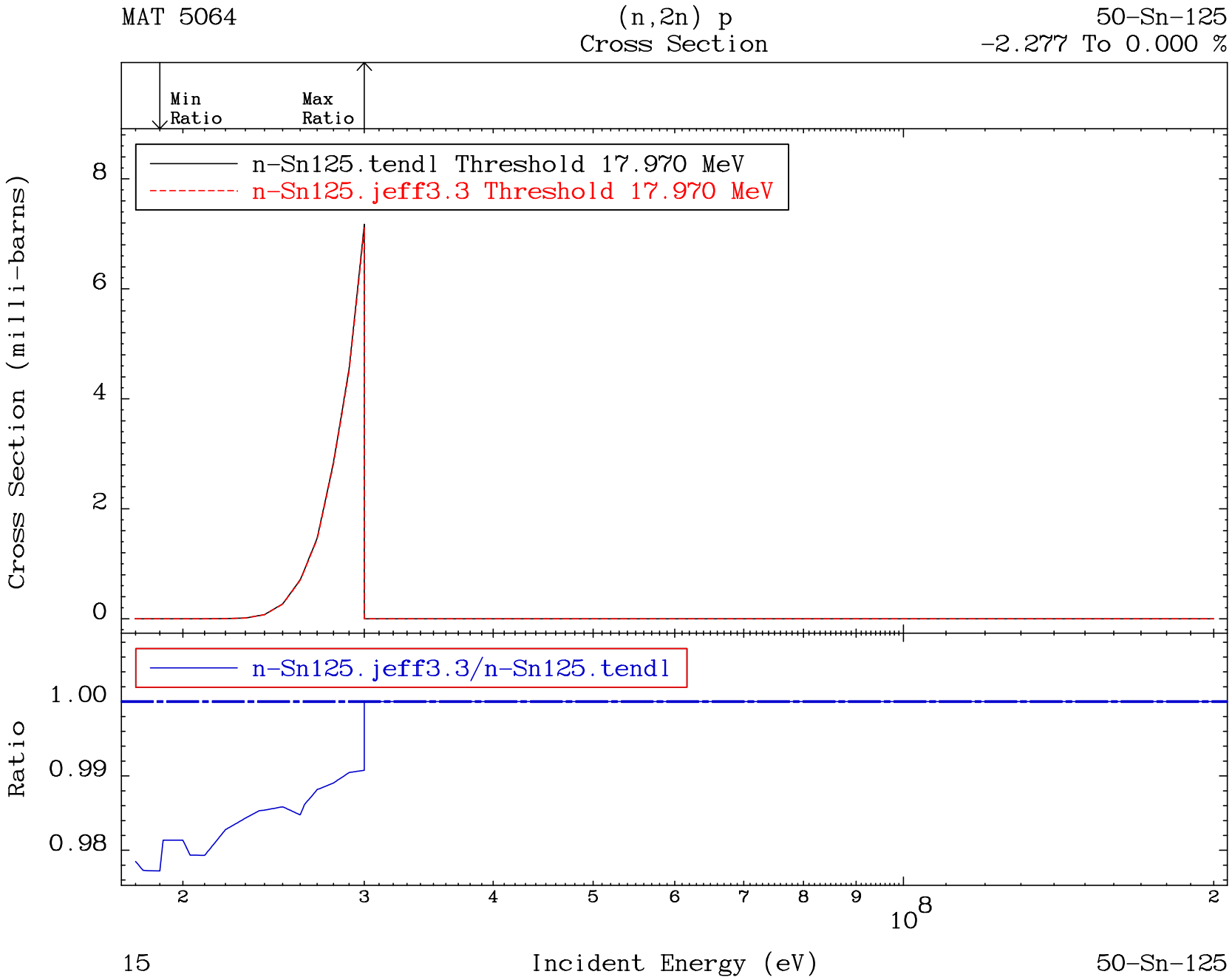

MAT 5064
(n,n') p
Cross Section
50-Sn-125
-2.730 To 0.084 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 12.415 MeV
n-Sn125.jeff3.3 Threshold 12.415 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
50-Sn-125

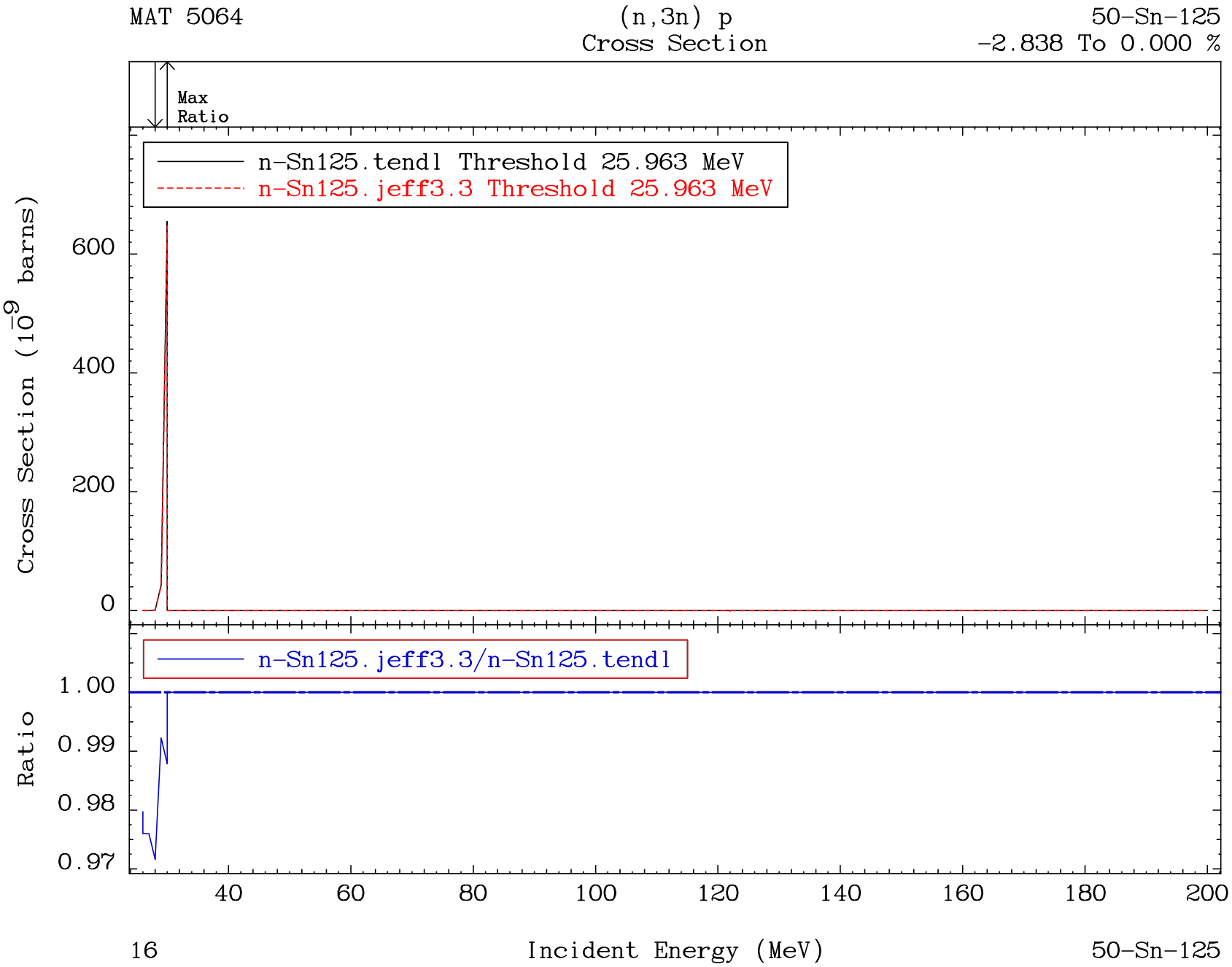

MAT 5064
(n,n') d
Cross Section
50-Sn-125
-2.394 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 15.728 MeV
n-Sn125.jeff3.3 Threshold 15.728 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
50-Sn-125

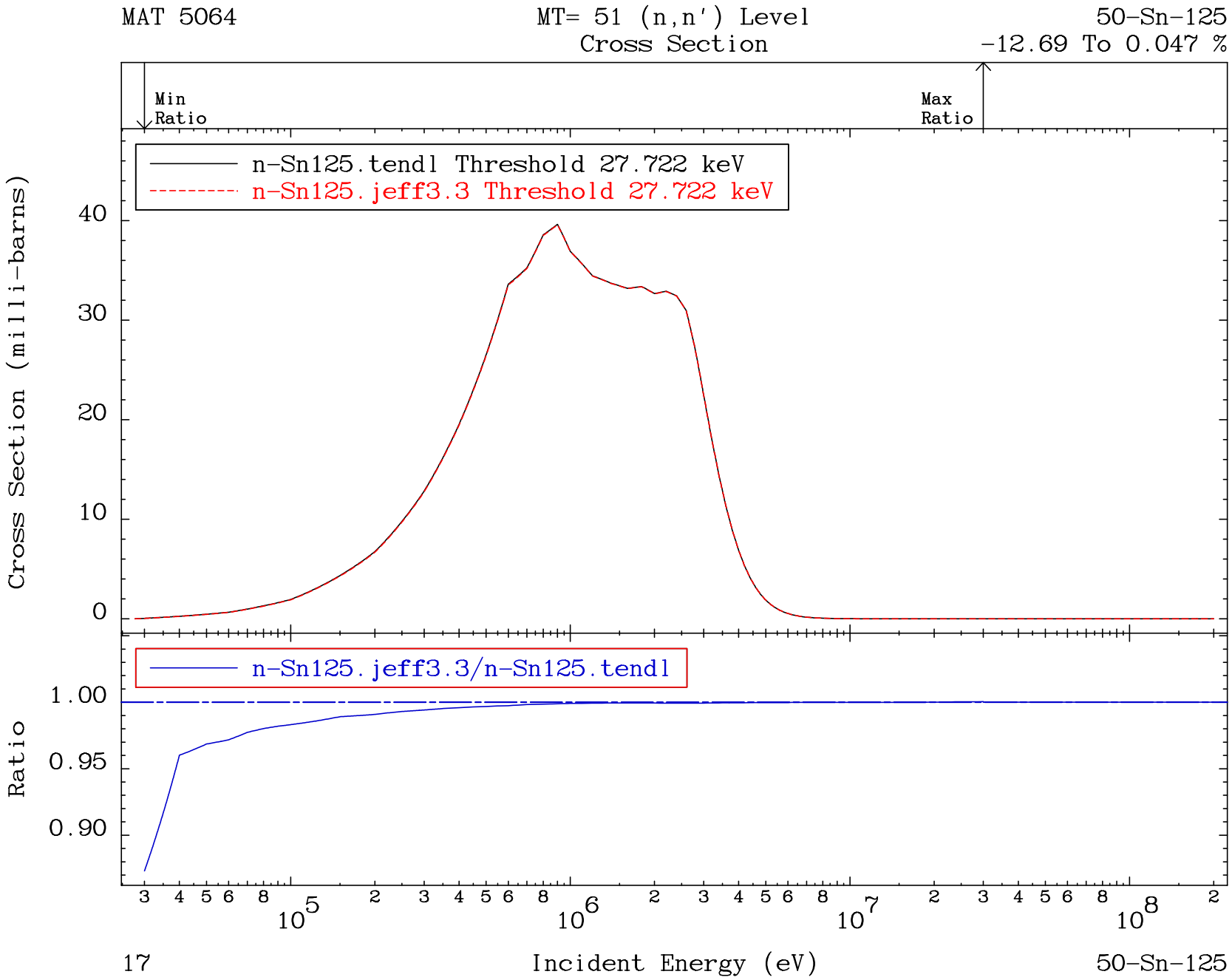

MAT 5064
(n,n') t
Cross Section
50-Sn-125
-5.630 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 17.413 MeV
n-Sn125.jeff3.3 Threshold 17.413 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.00
0.98
0.96
0.94
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
50-Sn-125

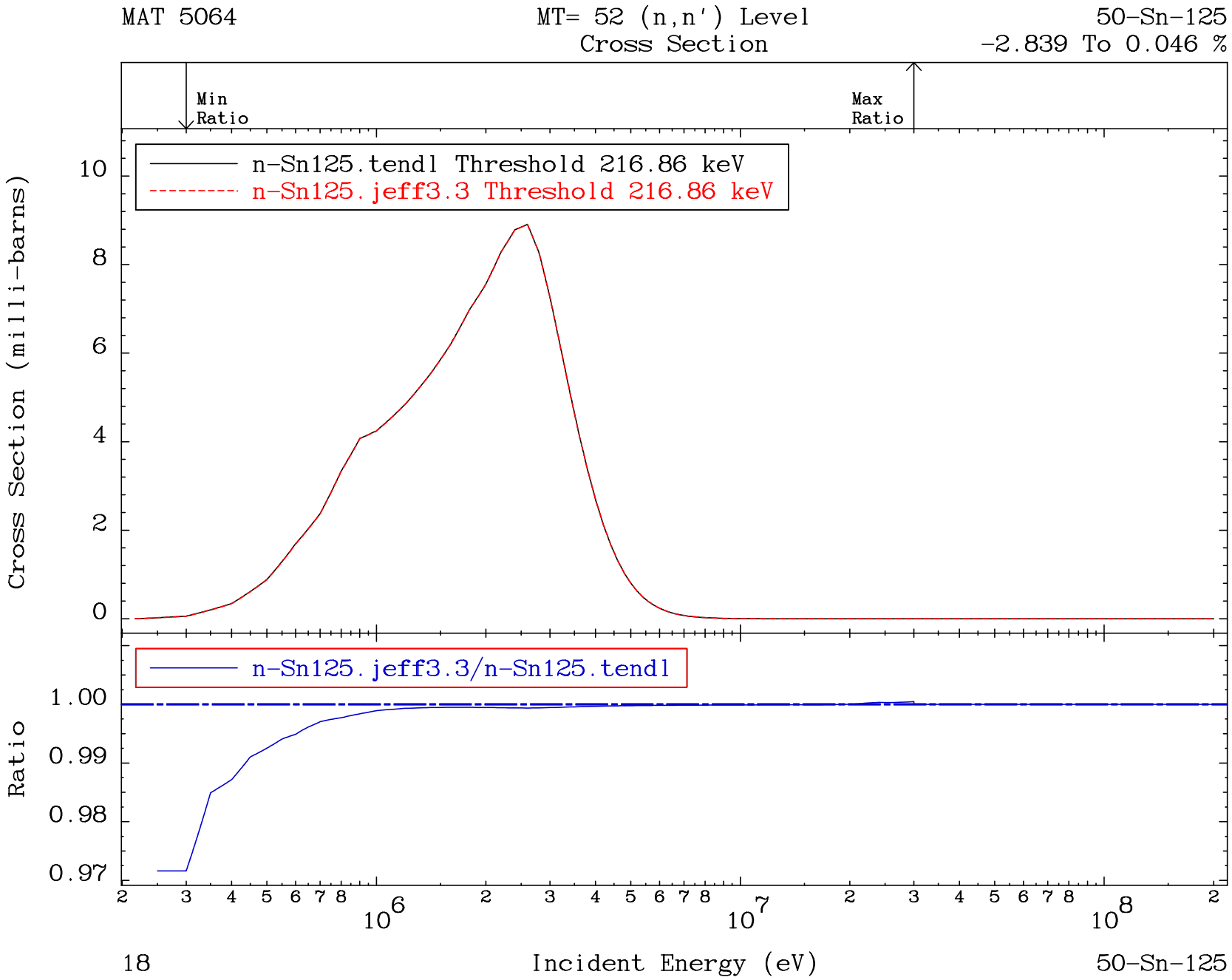

MAT 5064
(n,n') He-3
Cross Section
50-Sn-125
-3.410 To 0.000 %
Max
Ratio
n-Sn125.tendl Threshold 20.378 MeV
n-Sn125.jeff3.3 Threshold 20.378 MeV
Cross Section (10^-9 barns)
0
2
4
6
8
10
12
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.00
0.98
20
40
60
80
100
120
140
160
180
200
13
Incident Energy (MeV)
50-Sn-125

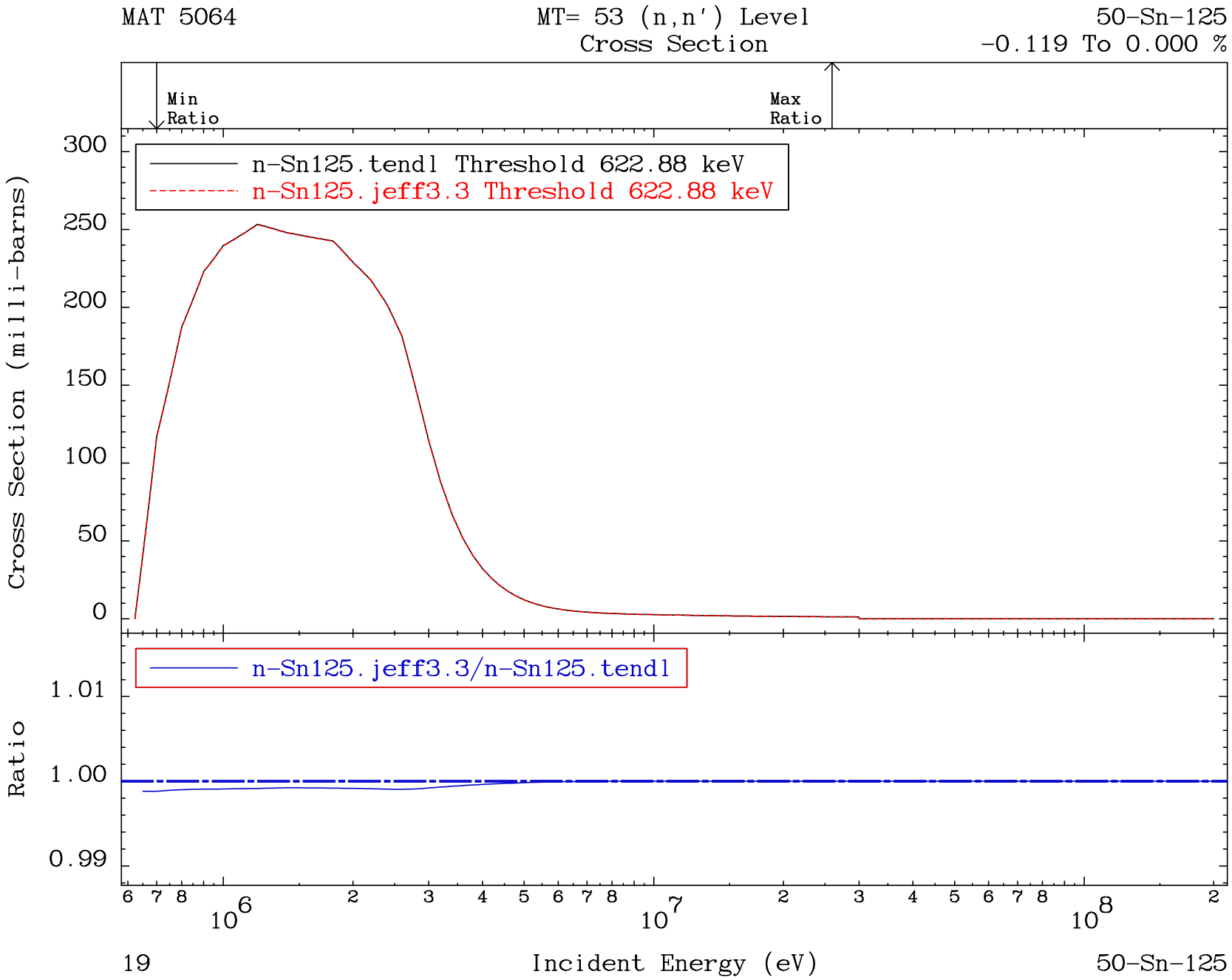

MAT 5064
(n,4n)
Cross Section
50-Sn-125
-4.281 To 0.000 %
Max
Ratio
n-Sn125.tendl Threshold 20.332 MeV
n-Sn125.jeff3.3 Threshold 20.332 MeV
Cross Section (milli-barns)
600
400
200
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.00
0.98
0.96
20
40
60
80
100
120
140
160
180
200
14
Incident Energy (MeV)
50-Sn-125

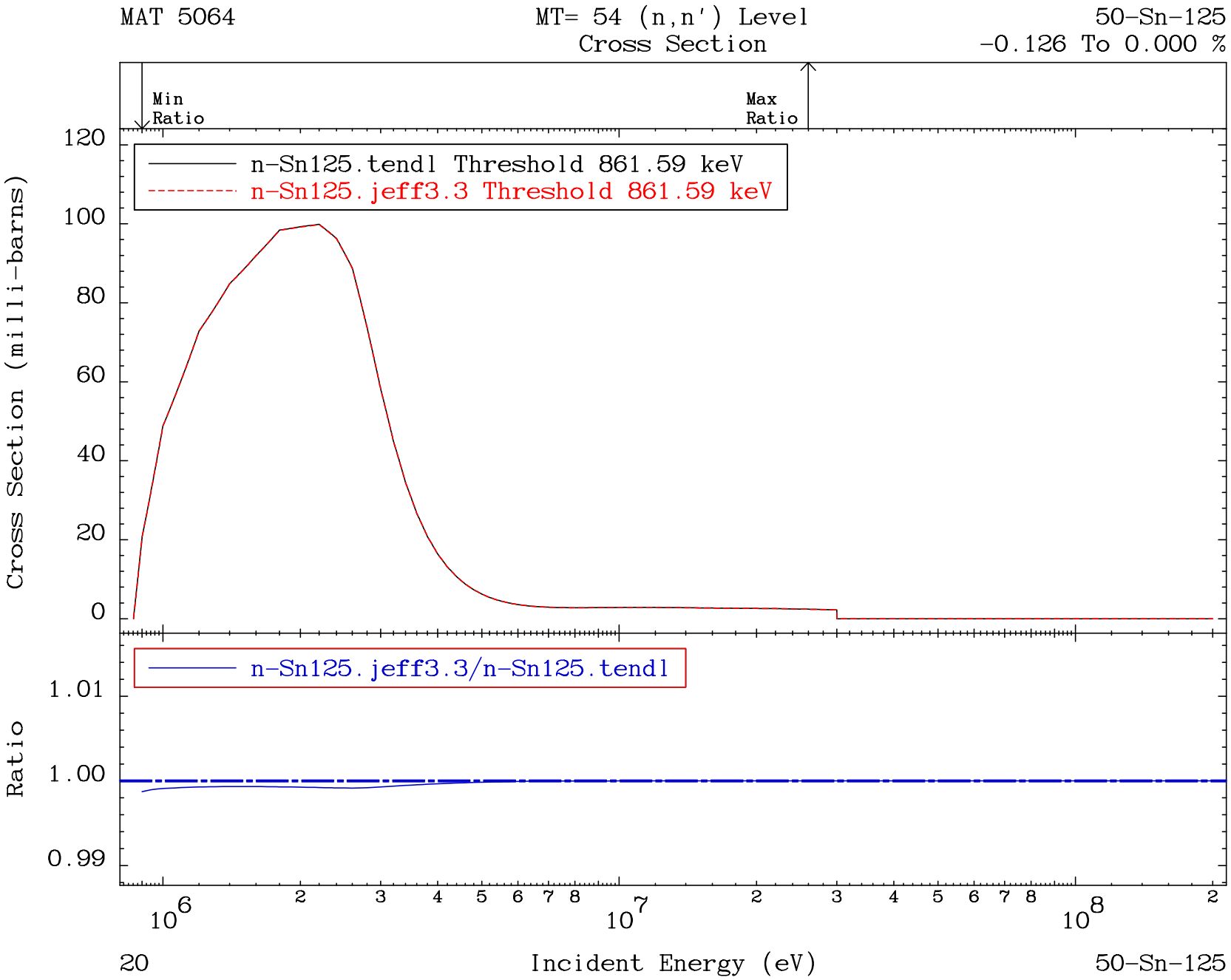

MAT 5064
(n,2n) p
Cross Section
50-Sn-125
-2.277 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 17.970 MeV
n-Sn125.jeff3.3 Threshold 17.970 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
0.98
0.99
1.00
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
50-Sn-125

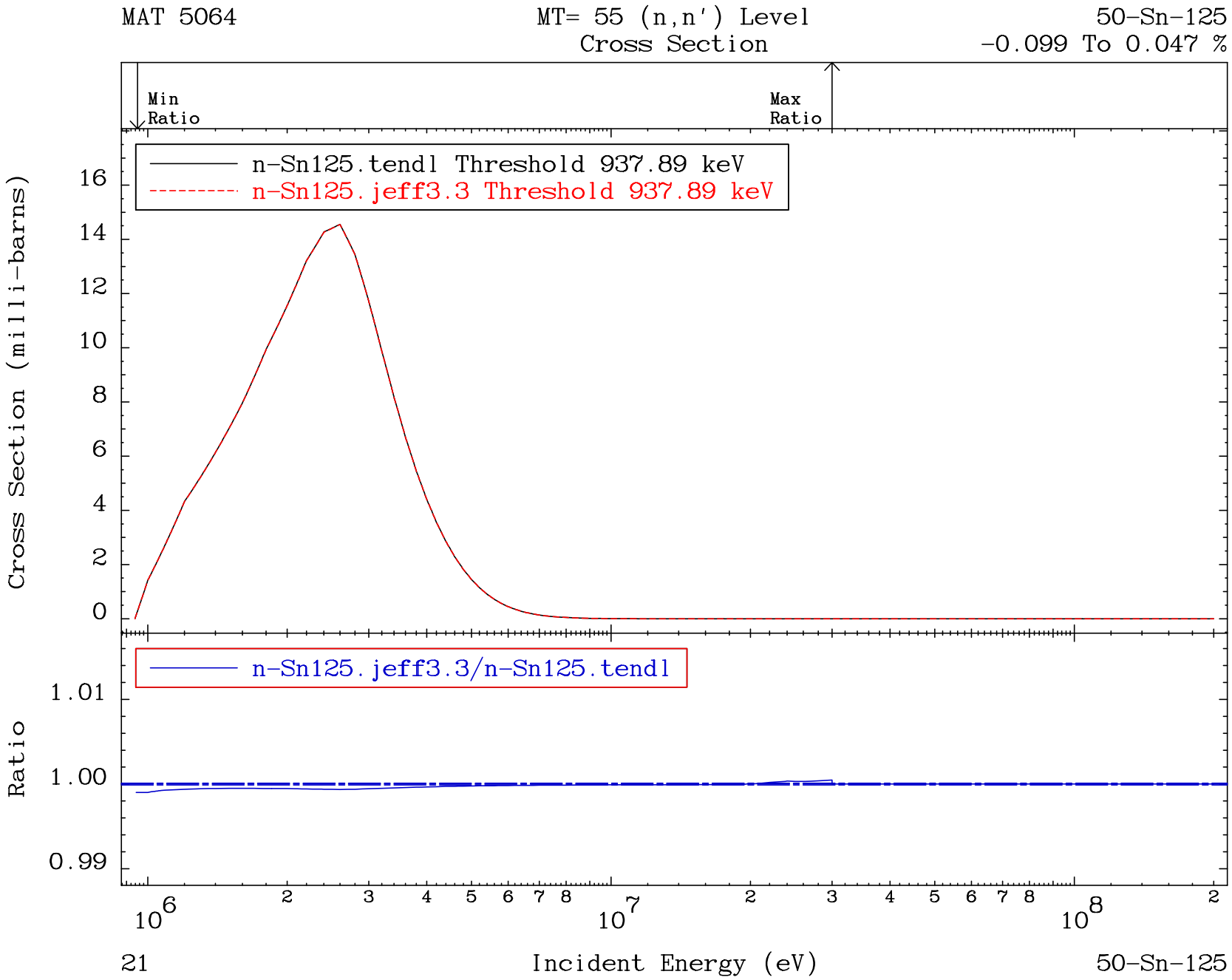

MAT 5064
(n,3n) p
Cross Section
50-Sn-125
-2.838 To 0.000 %
Max
Ratio
n-Sn125.tendl Threshold 25.963 MeV
n-Sn125.jeff3.3 Threshold 25.963 MeV
Cross Section (10^-9 barns)
600
400
200
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.00
0.99
0.98
0.97
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
50-Sn-125

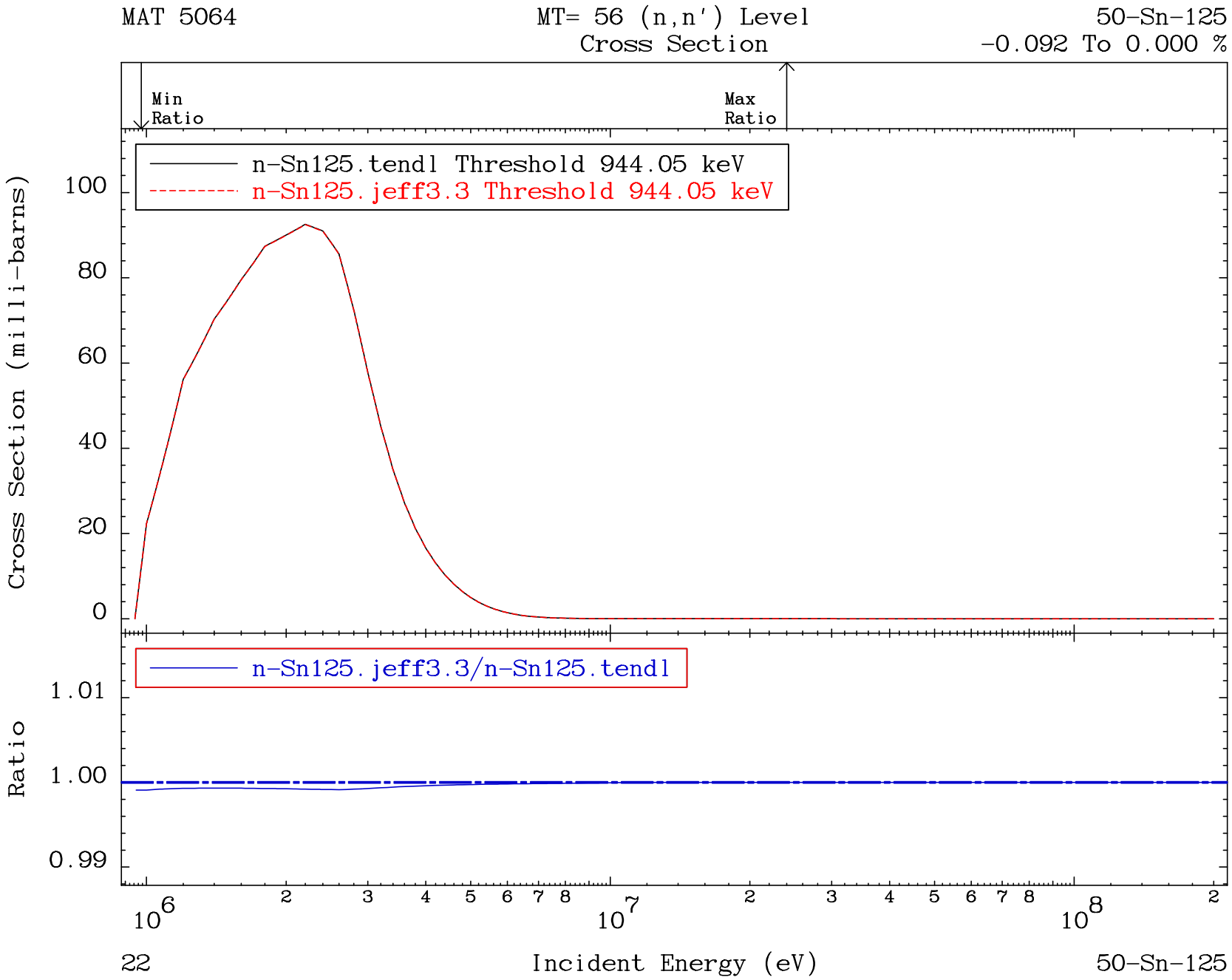

MAT 5064
MT= 51 (n,n') Level
Cross Section
50-Sn-125
-12.69 To 0.047 %
Min
Ratio
Max
Ratio
n-Sn125.tendl Threshold 27.722 keV
n-Sn125.jeff3.3 Threshold 27.722 keV
Cross Section (milli-barns)
40
30
20
10
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.00
0.95
0.90
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
17
Incident Energy (eV)
50-Sn-125

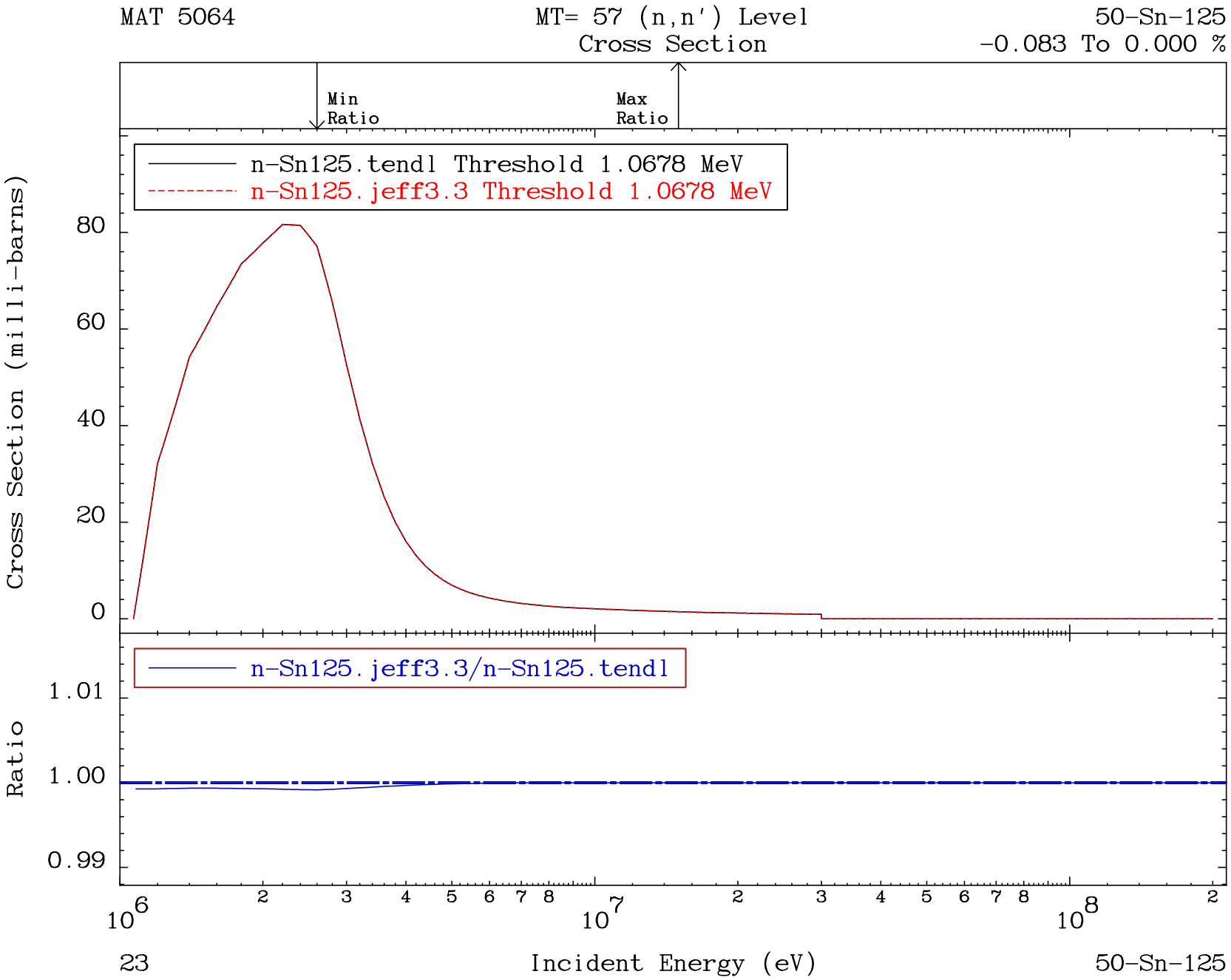

MAT 5064
MT= 52 (n,n') Level
Cross Section
50-Sn-125
-2.839 To 0.046 %
Min
Ratio
Max
Ratio
n-Sn125.tendl Threshold 216.86 keV
n-Sn125.jeff3.3 Threshold 216.86 keV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.00
0.99
0.98
0.97
2 3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
50-Sn-125

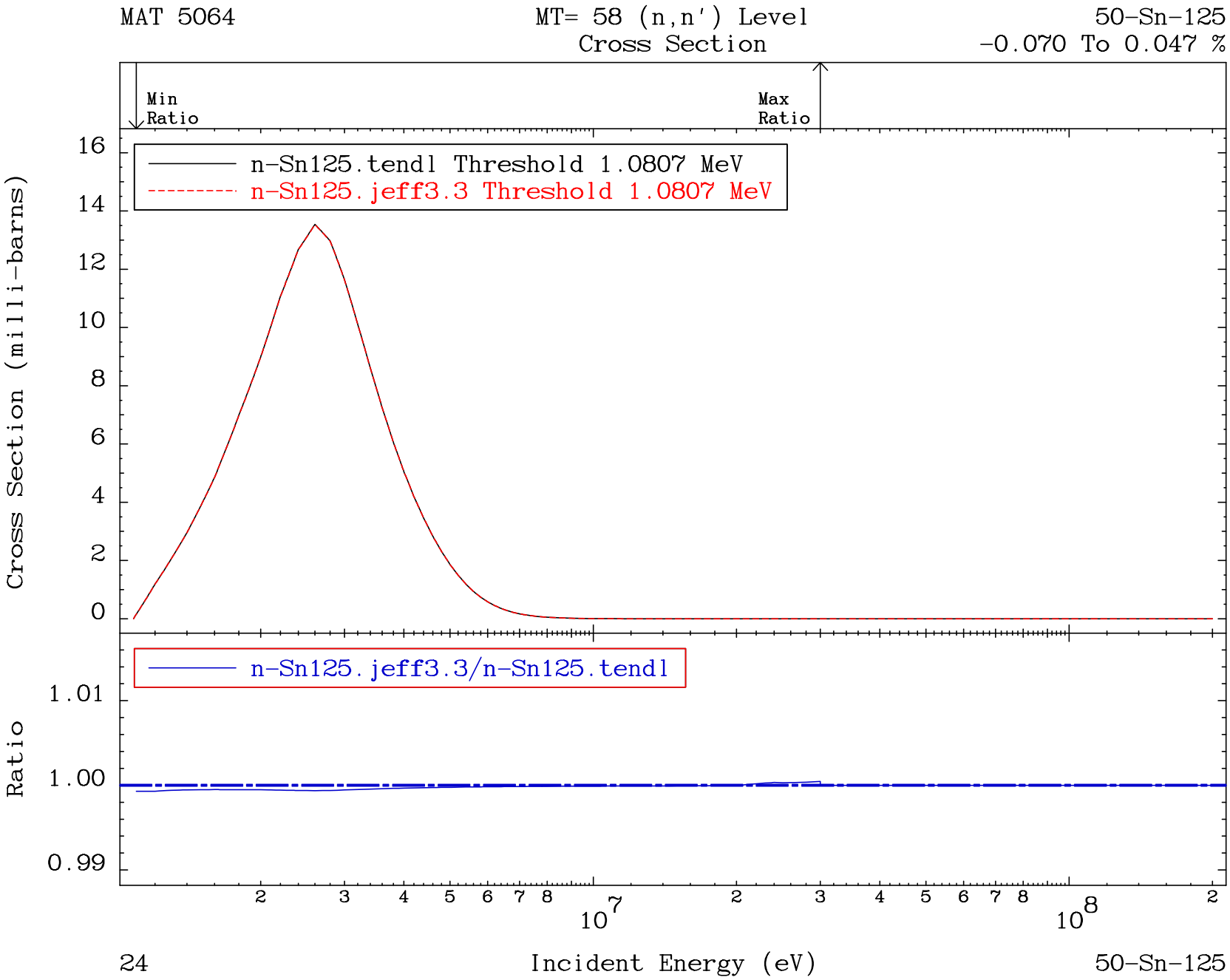

MAT 5064
MT= 53 (n,n') Level
Cross Section
50-Sn-125
-0.119 To 0.000 %
Min
Ratio
Max
Ratio
n-Sn125.tendl Threshold 622.88 keV
n-Sn125.jeff3.3 Threshold 622.88 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
50-Sn-125

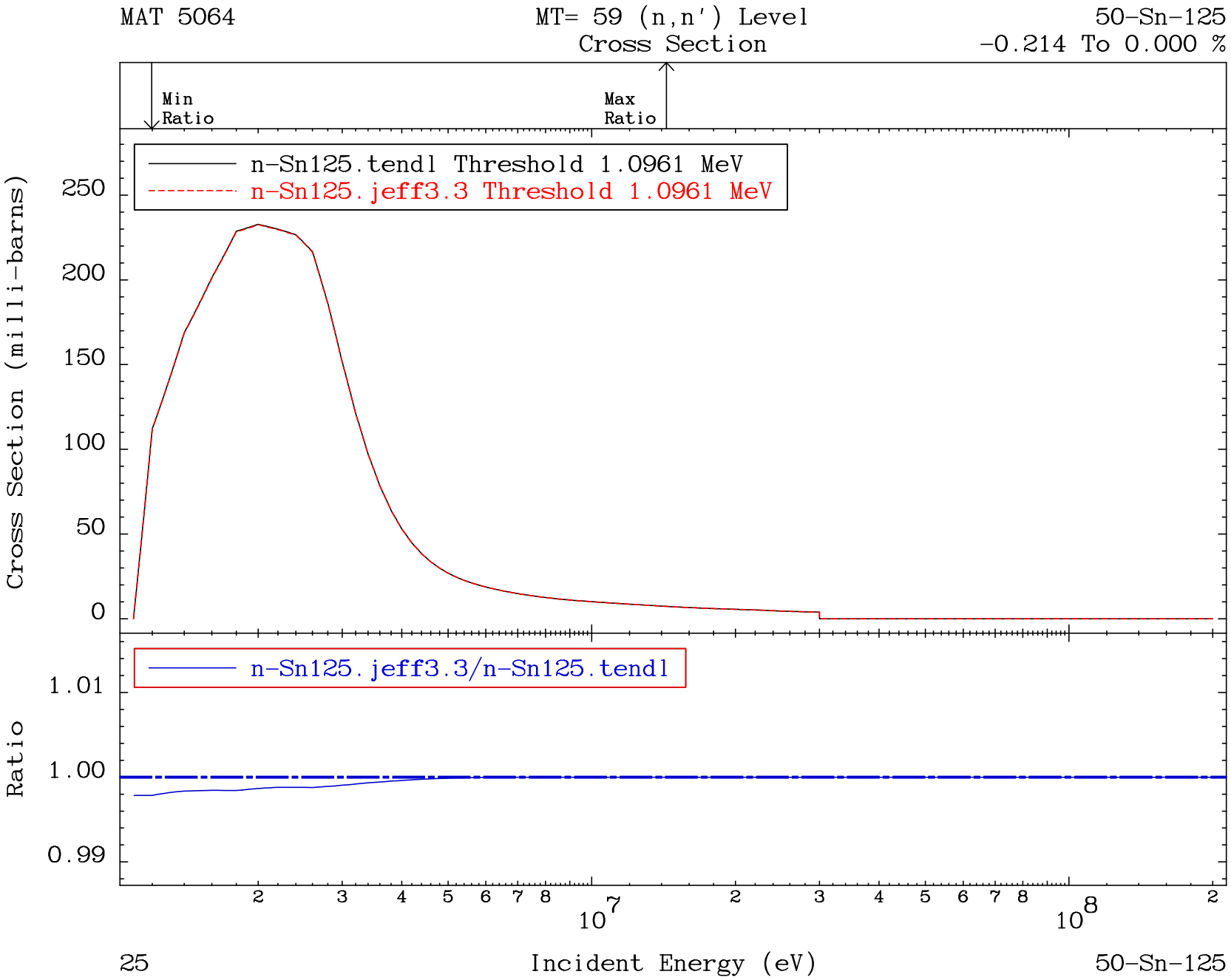

MAT 5064
MT= 54 (n,n') Level
Cross Section
50-Sn-125
-0.126 To 0.000 %
Min
Ratio
Max
Ratio
n-Sn125.tendl Threshold 861.59 keV
n-Sn125.jeff3.3 Threshold 861.59 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
20
Incident Energy (eV)
50-Sn-125

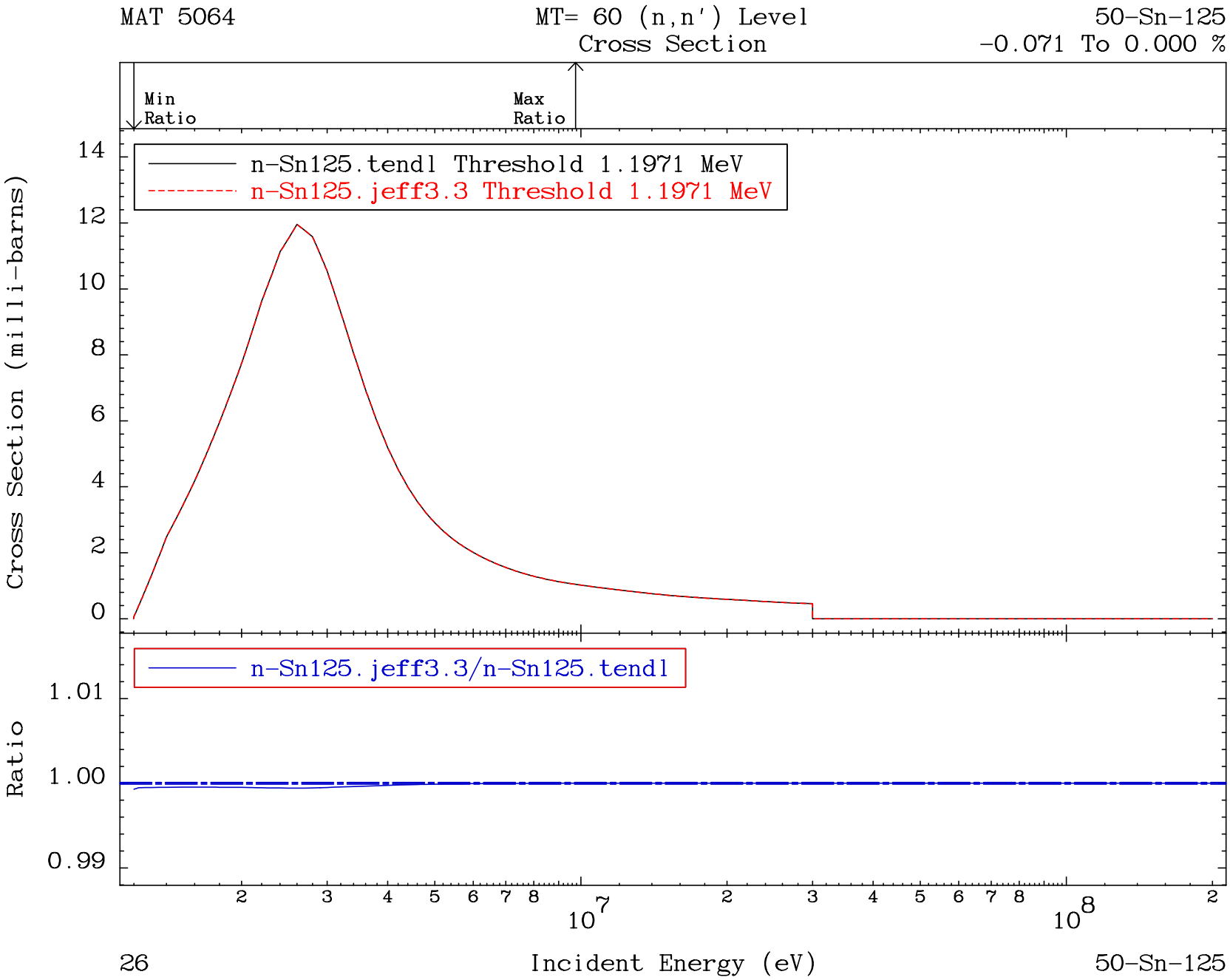

MAT 5064
MT= 55 (n,n') Level
Cross Section
50-Sn-125
-0.099 To 0.047 %
Min
Ratio
Max
Ratio
n-Sn125.tendl Threshold 937.89 keV
n-Sn125.jeff3.3 Threshold 937.89 keV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
21
Incident Energy (eV)
50-Sn-125

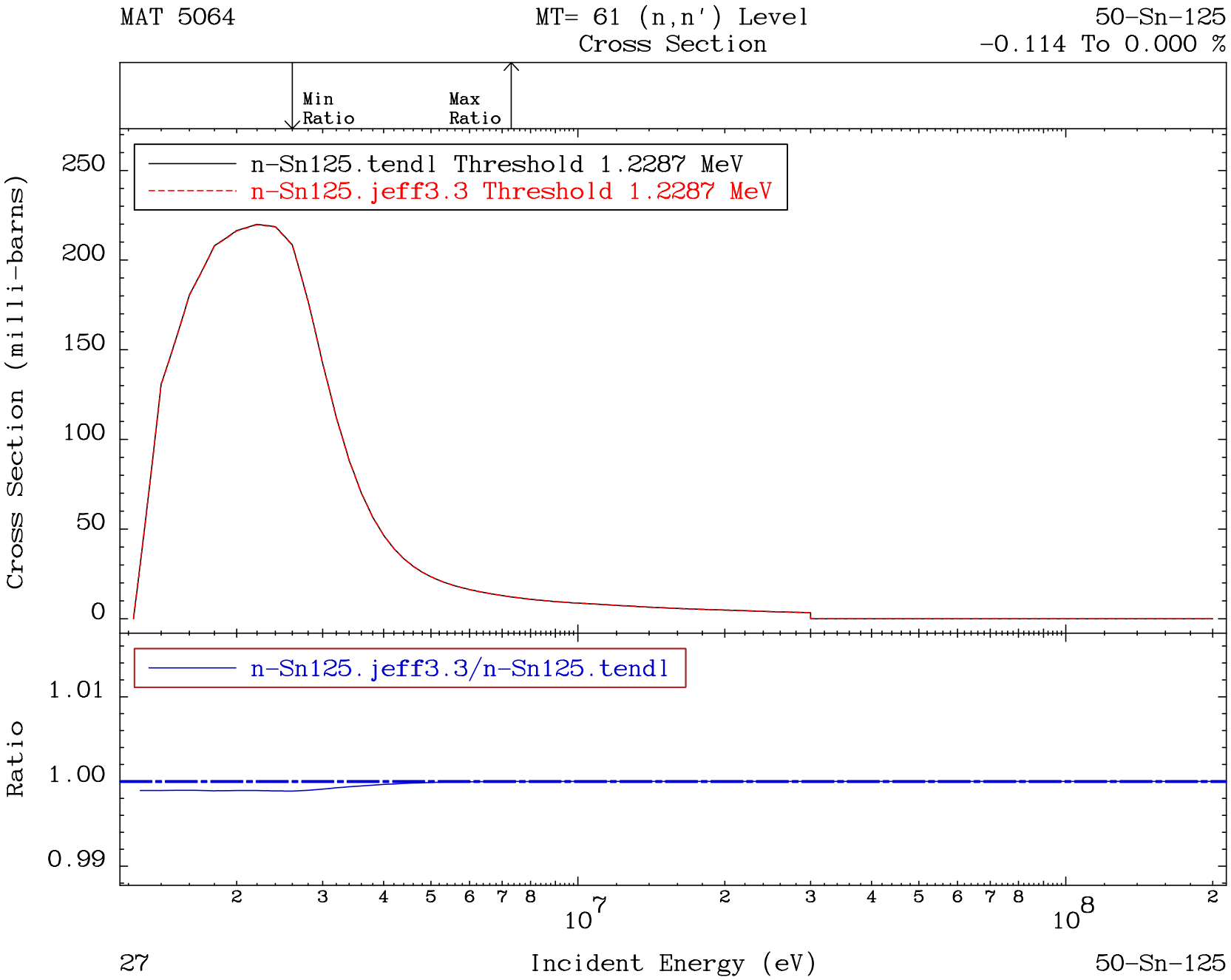

MAT 5064
MT= 56 (n,n') Level
Cross Section
50-Sn-125
-0.092 To 0.000 %
Min
Ratio
Max
Ratio
n-Sn125.tendl Threshold 944.05 keV
n-Sn125.jeff3.3 Threshold 944.05 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
22
Incident Energy (eV)
50-Sn-125

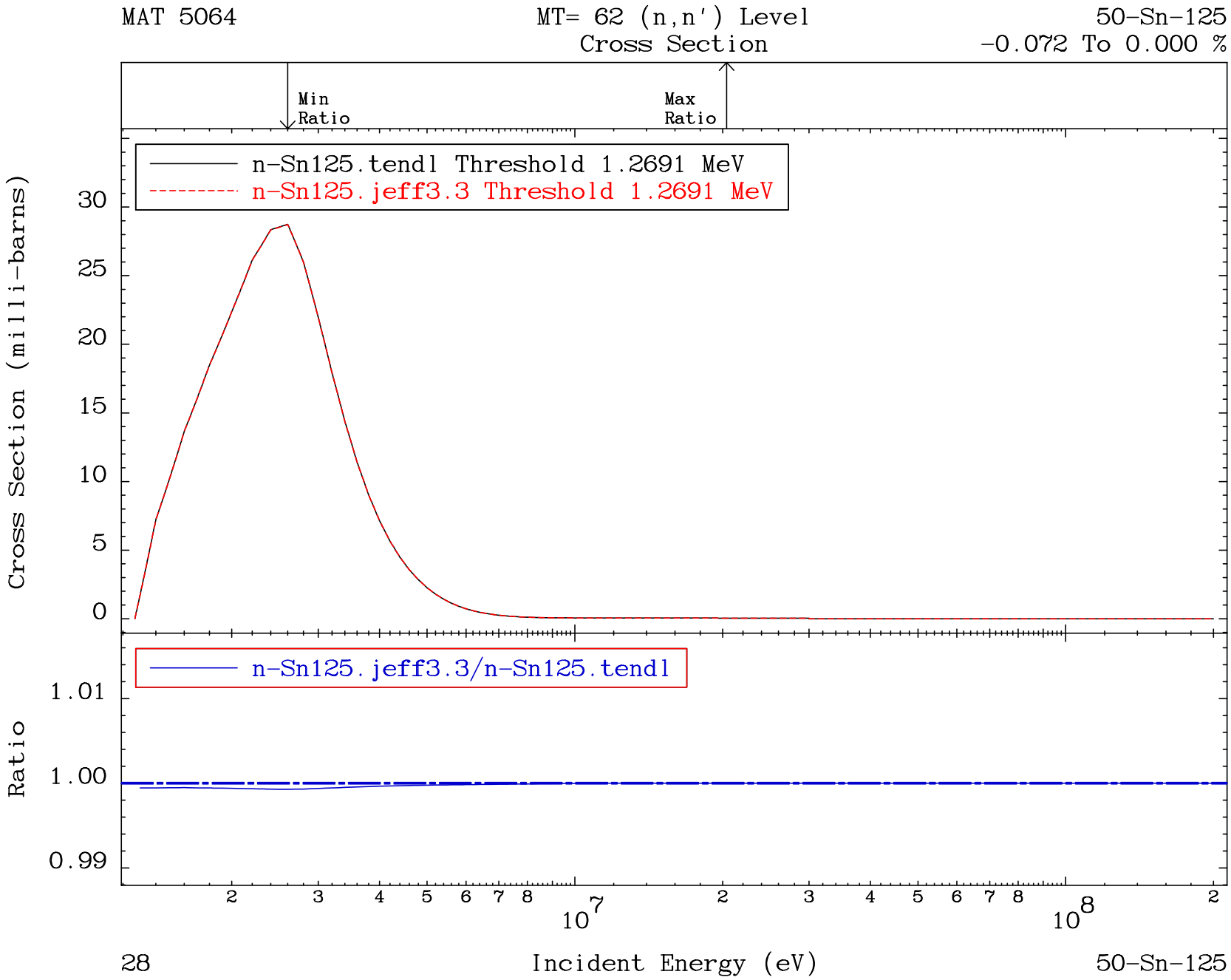

MAT 5064
MT= 57 (n,n') Level
Cross Section
50-Sn-125
-0.083 To 0.000 %
Min
Ratio
Max
Ratio
n-Sn125.tendl Threshold 1.0678 MeV
n-Sn125.jeff3.3 Threshold 1.0678 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
23
Incident Energy (eV)
50-Sn-125

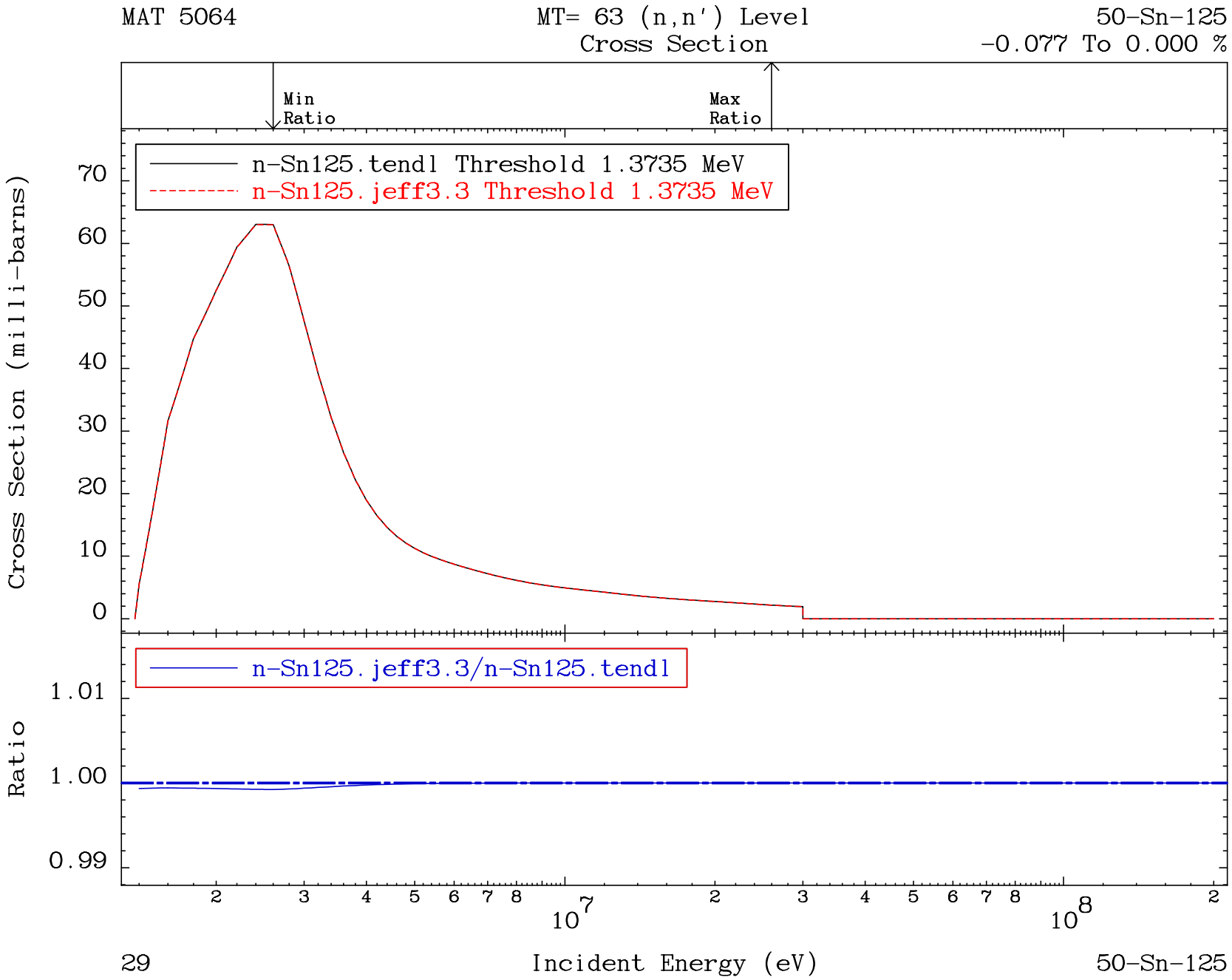

MAT 5064
MT= 58 (n,n') Level
Cross Section
50-Sn-125
-0.070 To 0.047 %
Min
Ratio
Max
Ratio
n-Sn125.tendl Threshold 1.0807 MeV
n-Sn125.jeff3.3 Threshold 1.0807 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
50-Sn-125

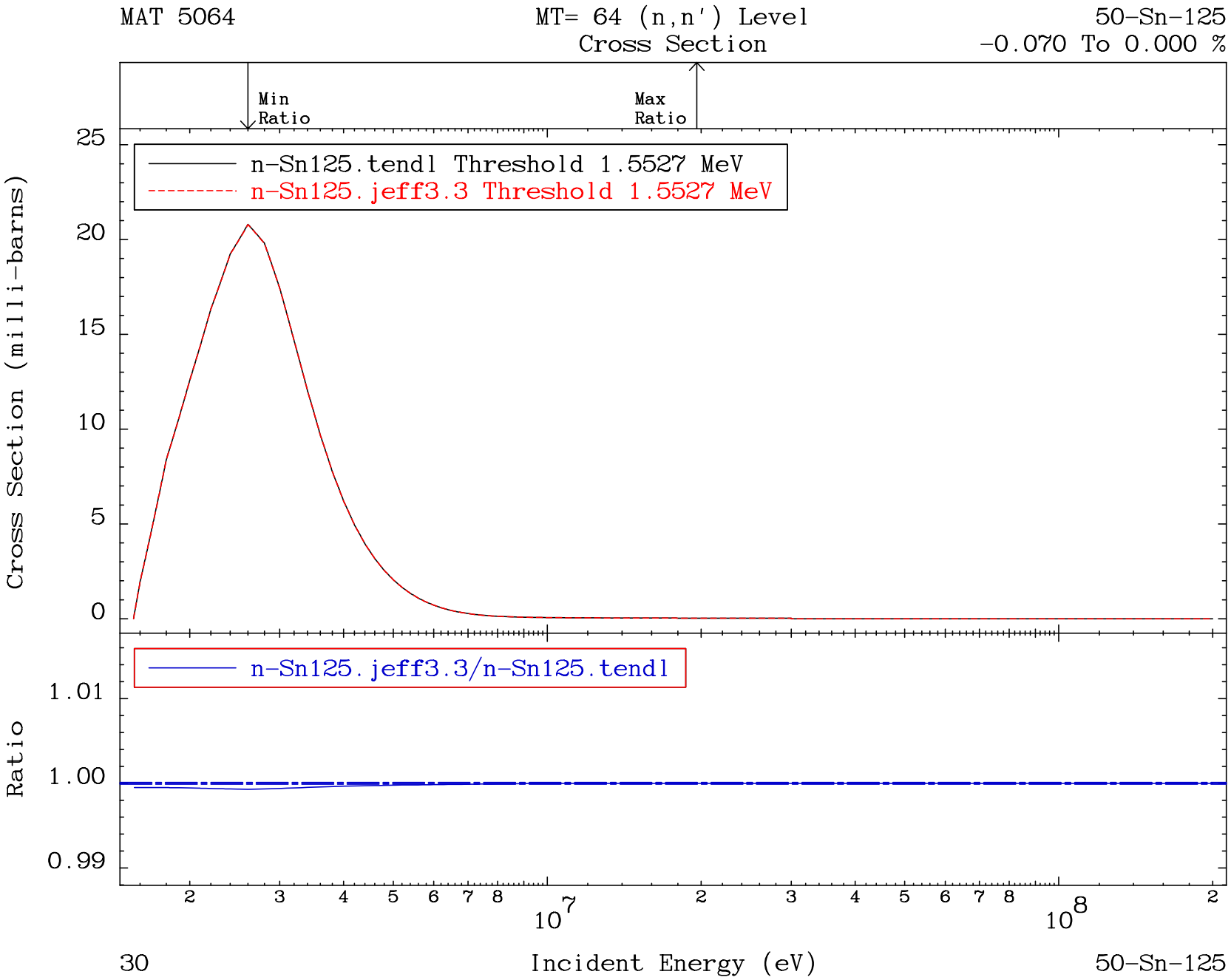

MAT 5064
MT= 59 (n,n') Level
Cross Section
50-Sn-125
-0.214 To 0.000 %
Min
Ratio
Max
Ratio
n-Sn125.tendl Threshold 1.0961 MeV
n-Sn125.jeff3.3 Threshold 1.0961 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
50-Sn-125

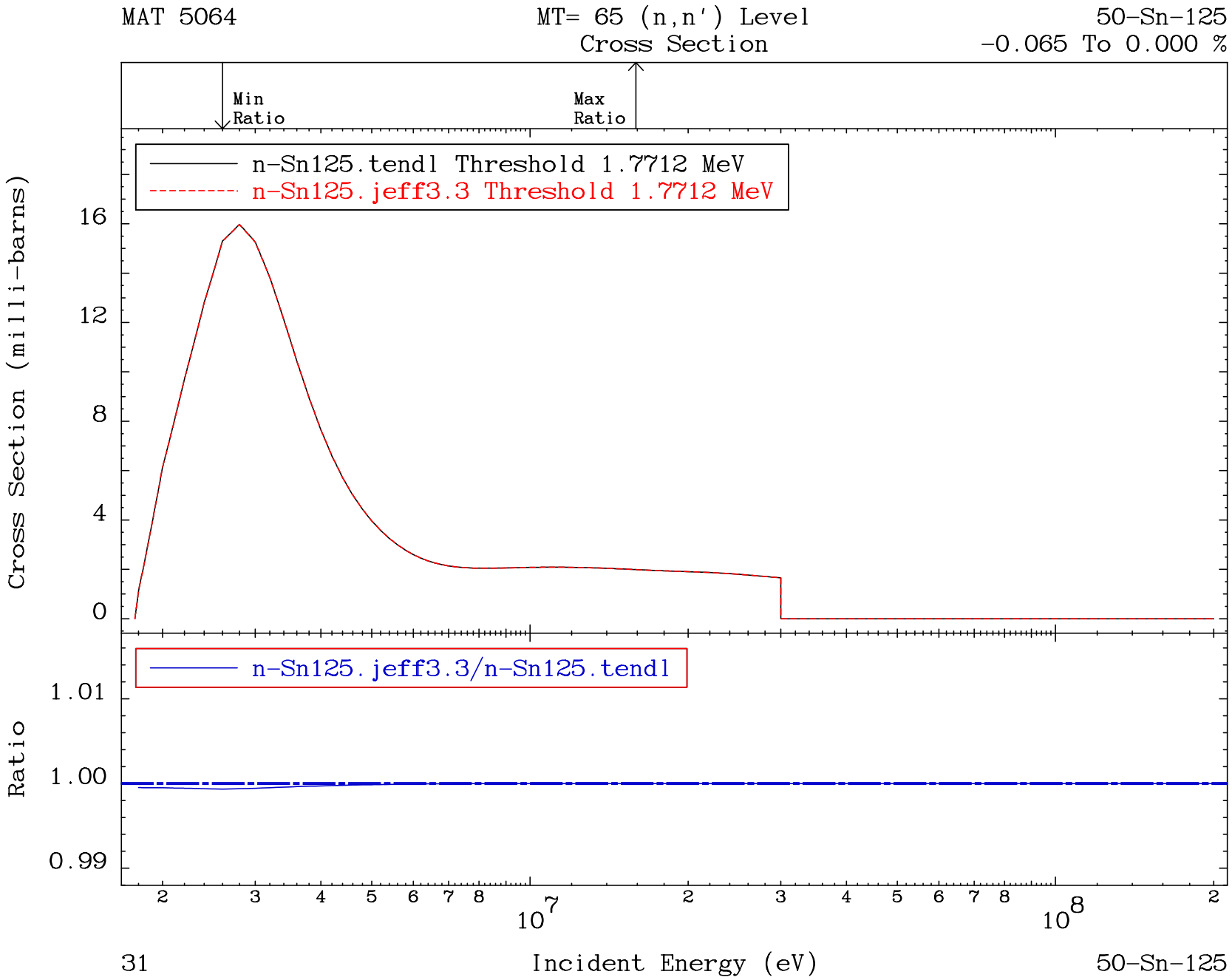

MAT 5064
MT= 60 (n,n') Level
Cross Section
50-Sn-125
-0.071 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 1.1971 MeV
n-Sn125.jeff3.3 Threshold 1.1971 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
50-Sn-125

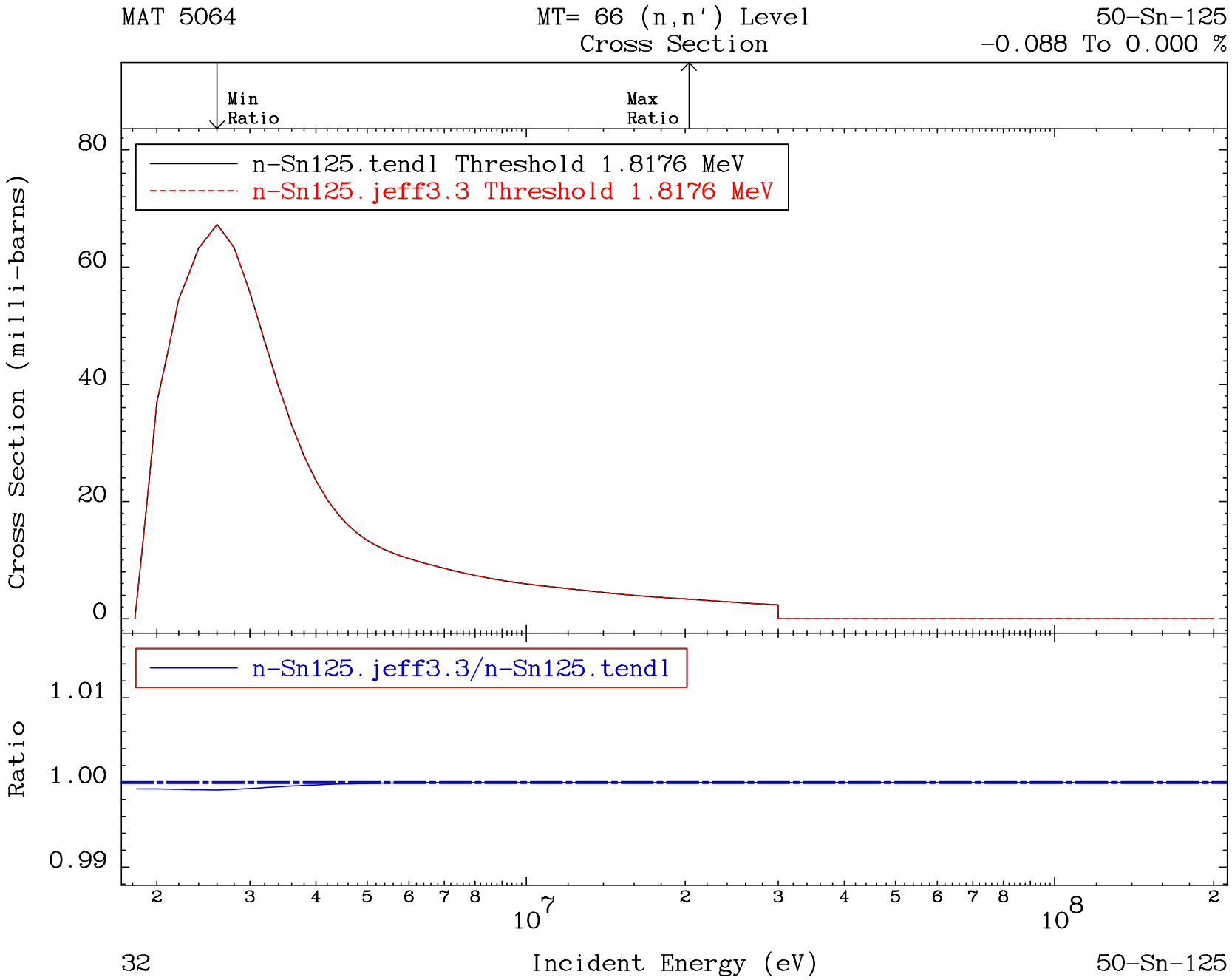

MAT 5064
MT= 61 (n,n') Level
Cross Section
50-Sn-125
-0.114 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 1.2287 MeV
n-Sn125.jeff3.3 Threshold 1.2287 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
50-Sn-125

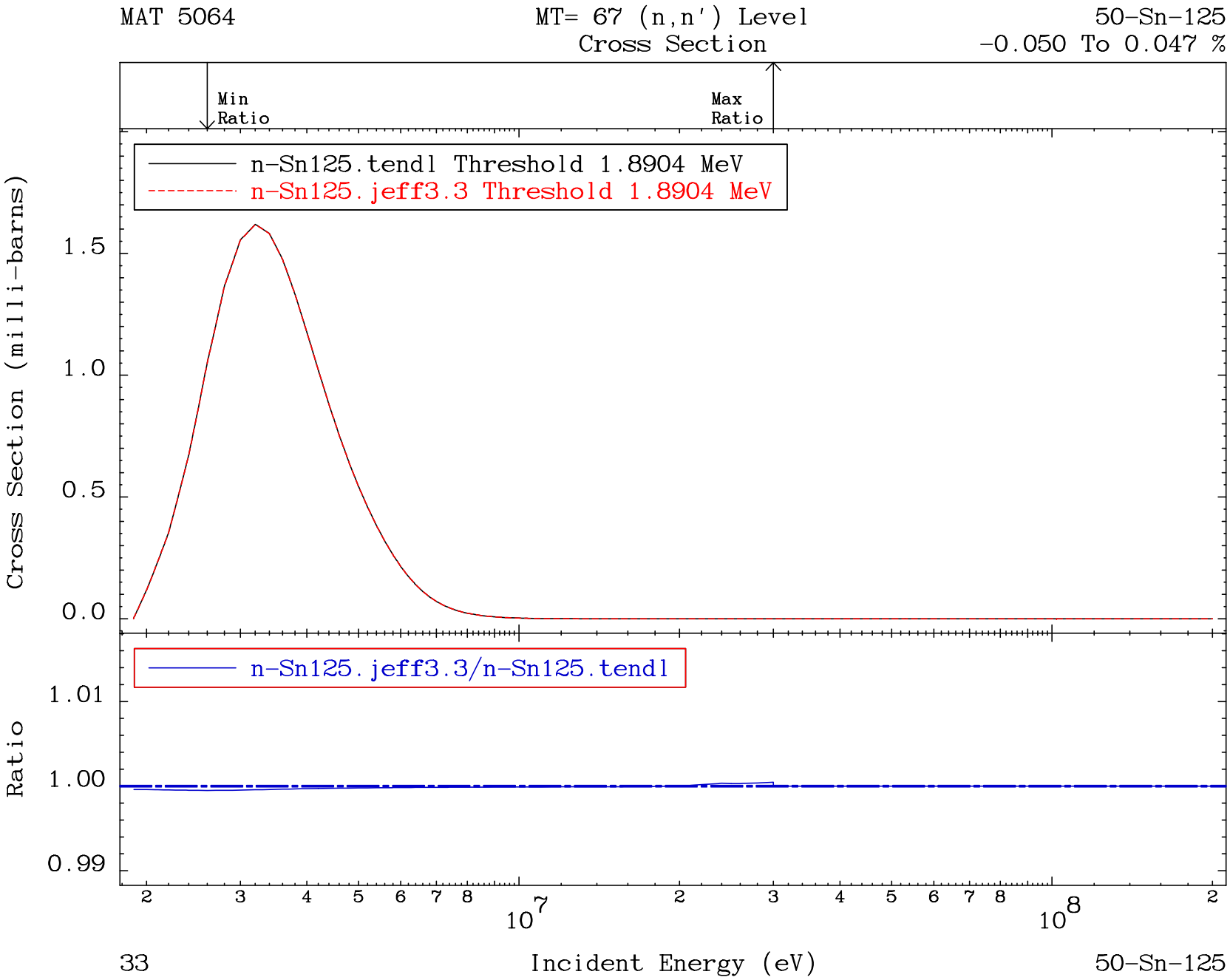

MAT 5064
MT= 62 (n,n') Level
Cross Section
50-Sn-125
-0.072 To 0.000 %
Min
Ratio
Max
Ratio
n-Sn125.tendl Threshold 1.2691 MeV
n-Sn125.jeff3.3 Threshold 1.2691 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
28
Incident Energy (eV)
50-Sn-125

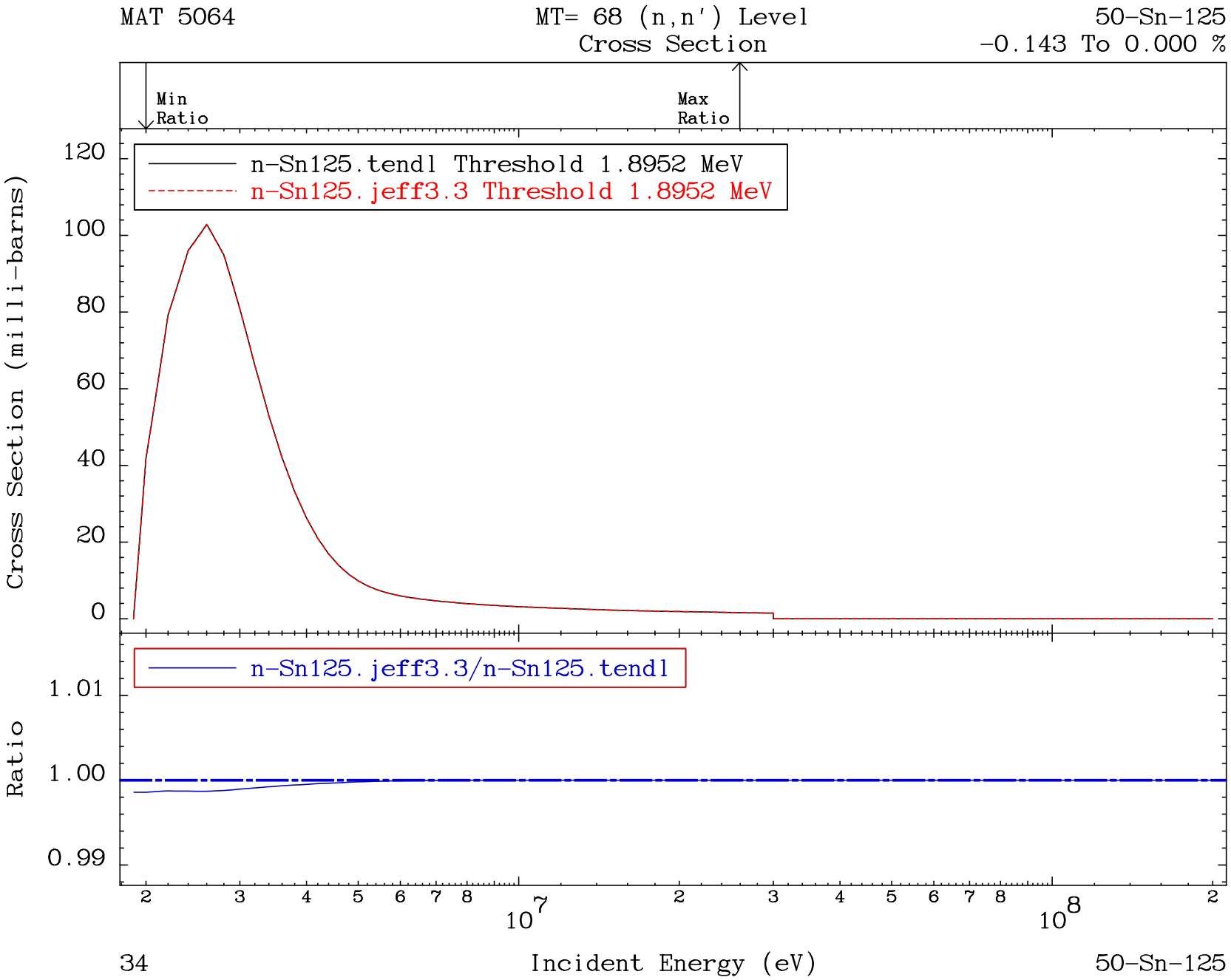

MAT 5064
MT= 63 (n,n') Level
Cross Section
50-Sn-125
-0.077 To 0.000 %
Min
Ratio
Max
Ratio
n-Sn125.tendl Threshold 1.3735 MeV
n-Sn125.jeff3.3 Threshold 1.3735 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
29
Incident Energy (eV)
50-Sn-125

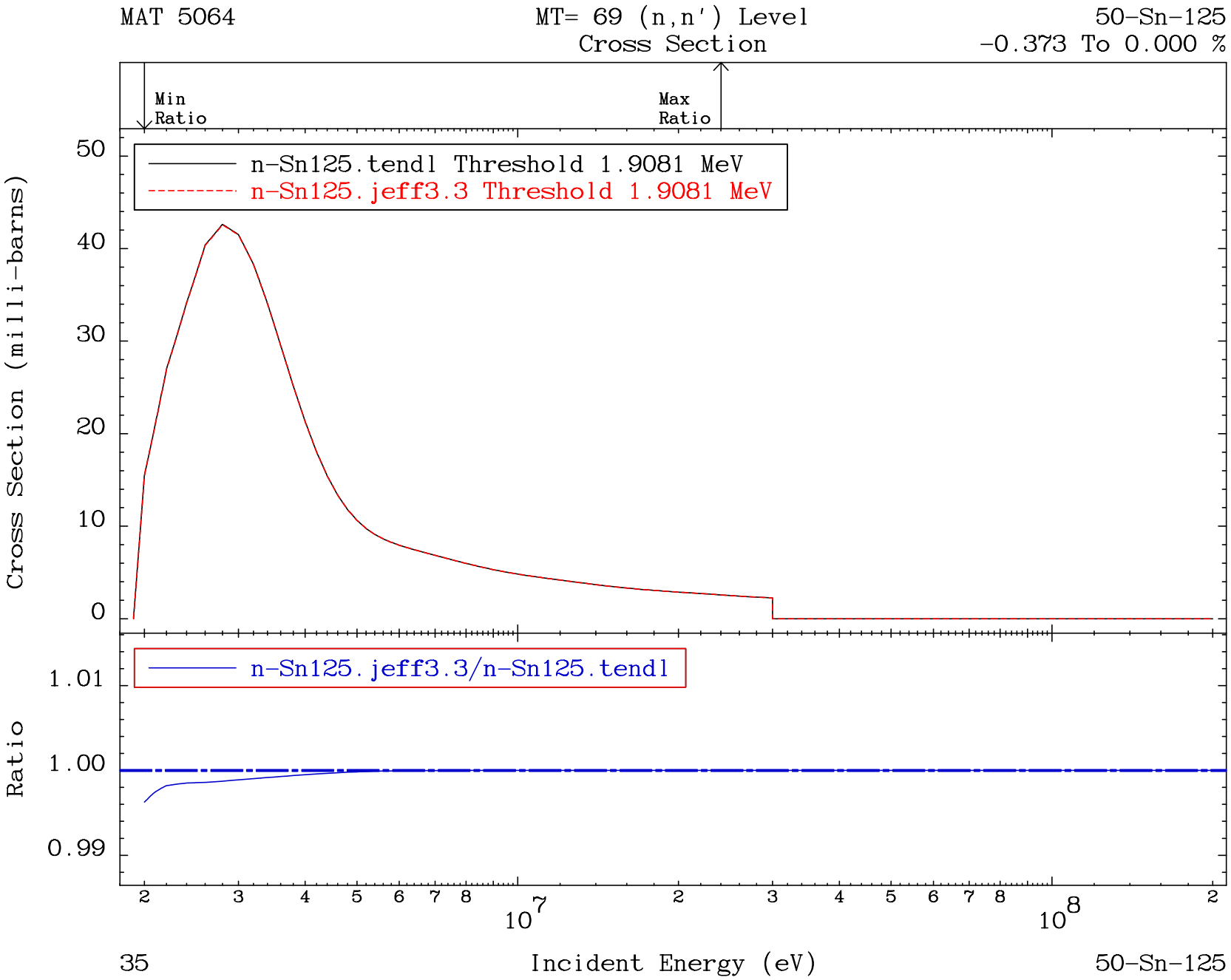

MAT 5064
MT= 64 (n,n') Level
Cross Section
50-Sn-125
-0.070 To 0.000 %
Min
Ratio
Max
Ratio
n-Sn125.tendl Threshold 1.5527 MeV
n-Sn125.jeff3.3 Threshold 1.5527 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
30
Incident Energy (eV)
50-Sn-125

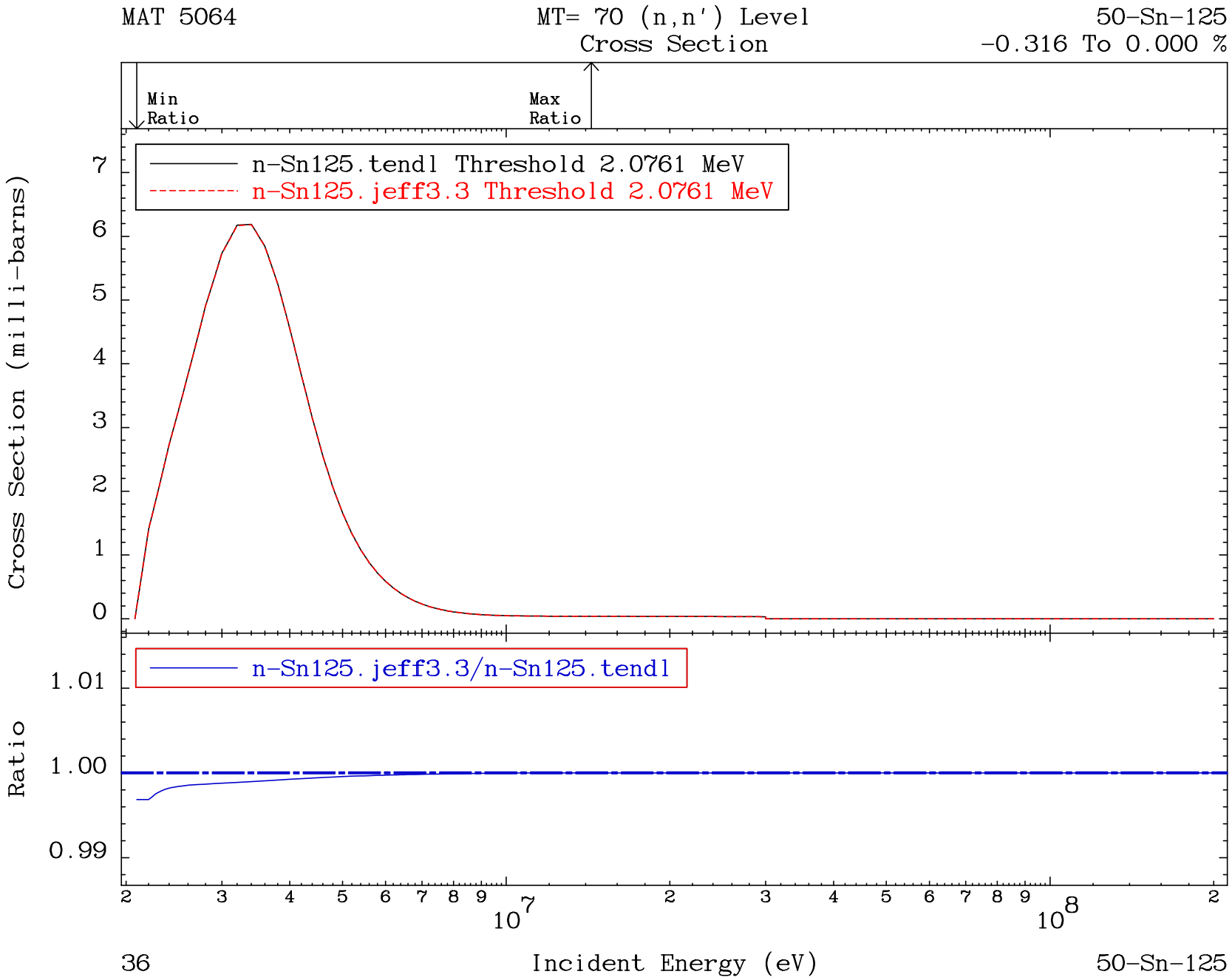

MAT 5064
MT= 65 (n,n') Level
Cross Section
50-Sn-125
-0.065 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 1.7712 MeV
n-Sn125.jeff3.3 Threshold 1.7712 MeV
Cross Section (milli-barns)
16
12
8
4
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
31
Incident Energy (eV)
50-Sn-125

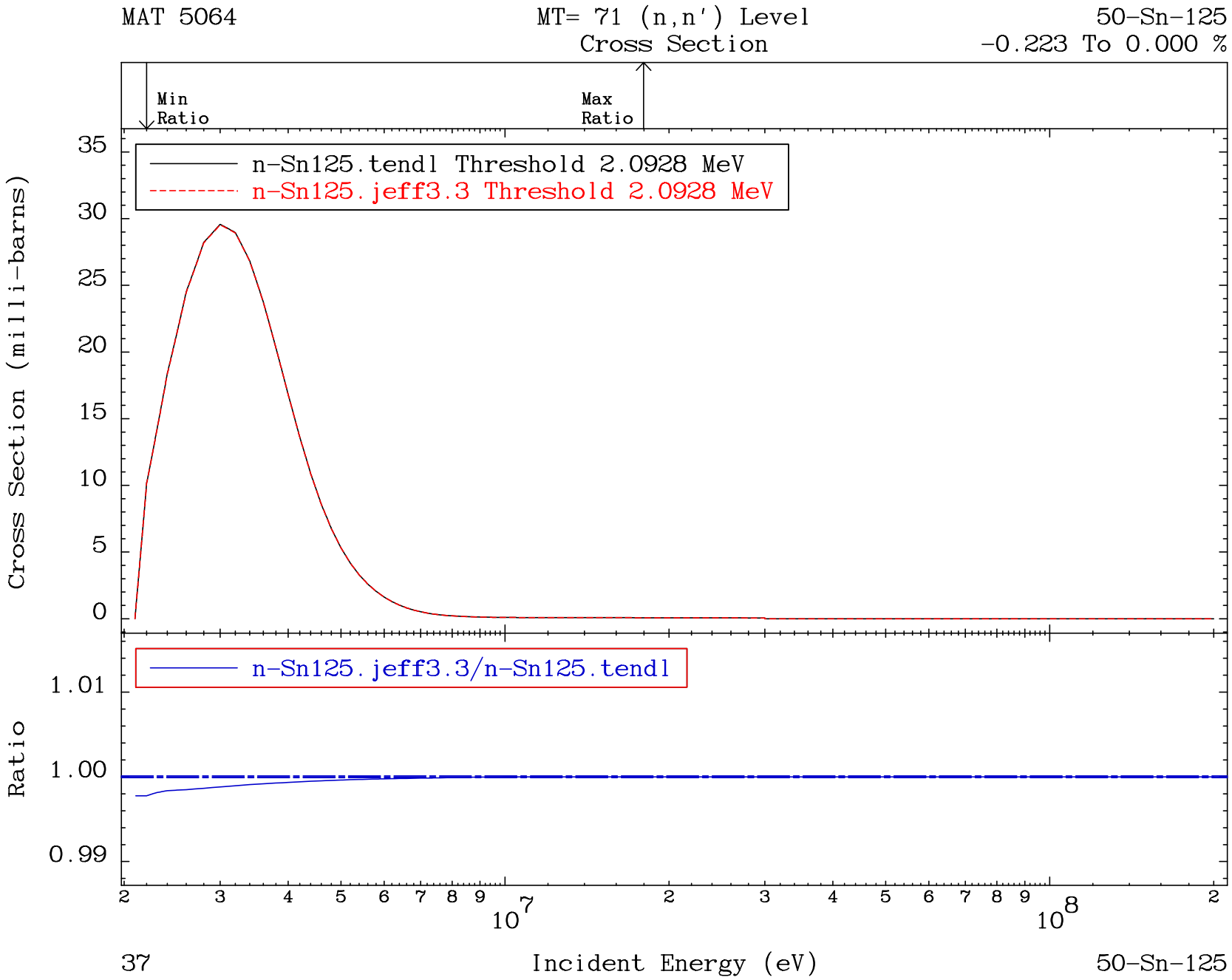

MAT 5064
MT= 66 (n,n') Level
Cross Section
50-Sn-125
-0.088 To 0.000 %
Min
Ratio
Max
Ratio
n-Sn125.tendl Threshold 1.8176 MeV
n-Sn125.jeff3.3 Threshold 1.8176 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
32
Incident Energy (eV)
50-Sn-125

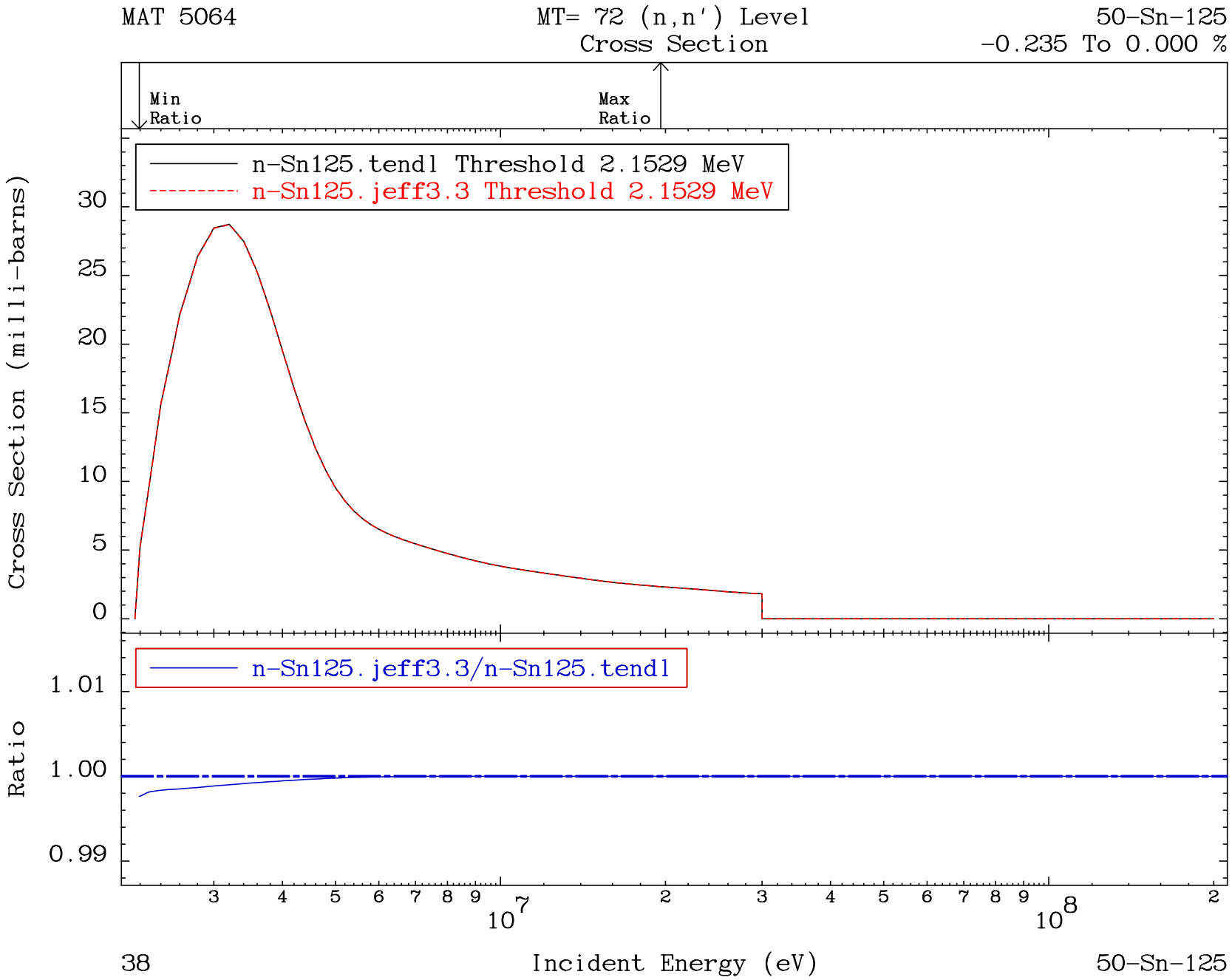

MAT 5064
MT= 67 (n,n') Level
Cross Section
50-Sn-125
-0.050 To 0.047 %
Min
Ratio
Max
Ratio
n-Sn125.tendl Threshold 1.8904 MeV
n-Sn125.jeff3.3 Threshold 1.8904 MeV
Cross Section (milli-barns)
1.5
1.0
0.5
0.0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
33
Incident Energy (eV)
50-Sn-125

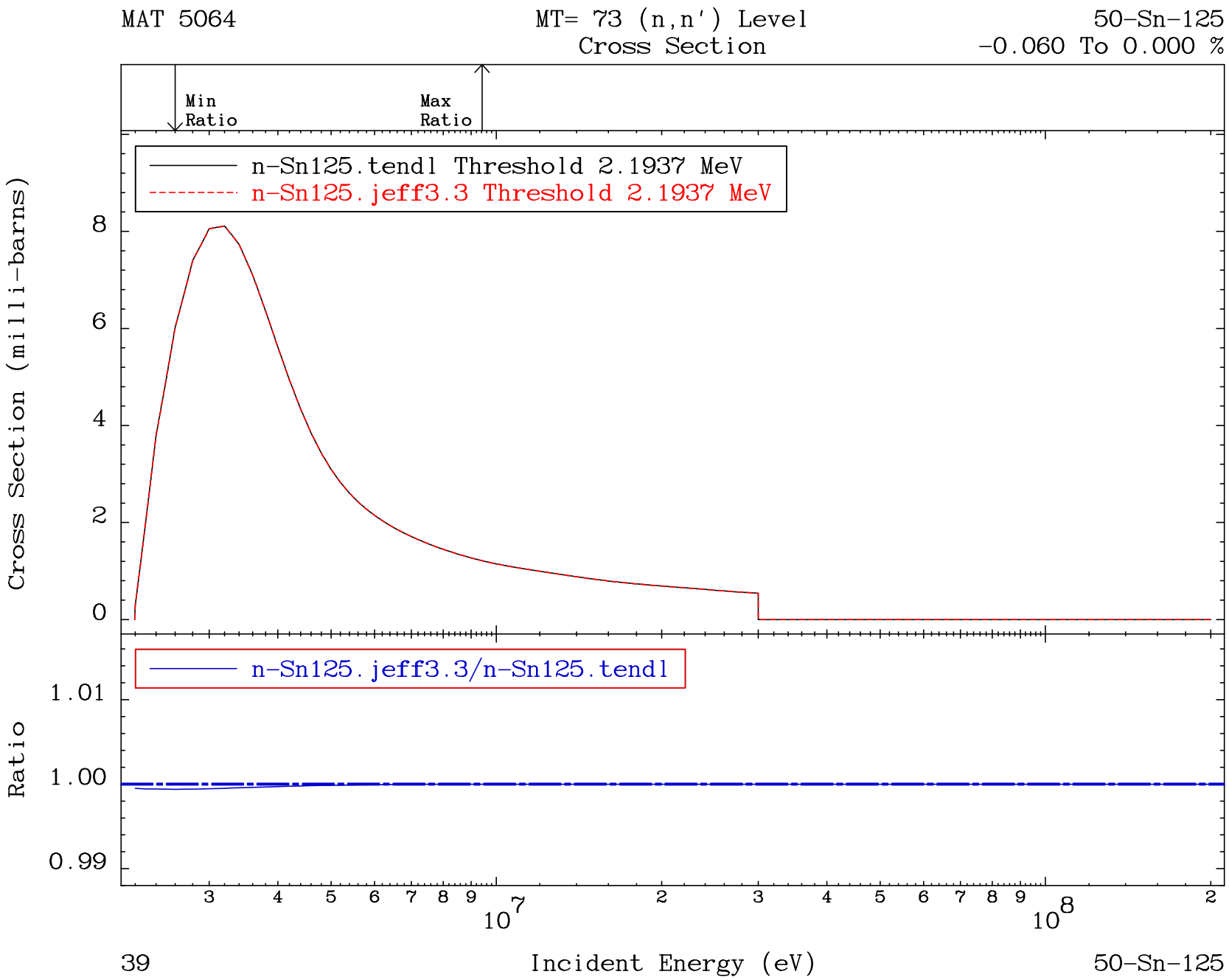

MAT 5064
MT= 68 (n,n') Level
Cross Section
50-Sn-125
-0.143 To 0.000 %
Min
Ratio
Max
Ratio
n-Sn125.tendl Threshold 1.8952 MeV
n-Sn125.jeff3.3 Threshold 1.8952 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
34
Incident Energy (eV)
50-Sn-125

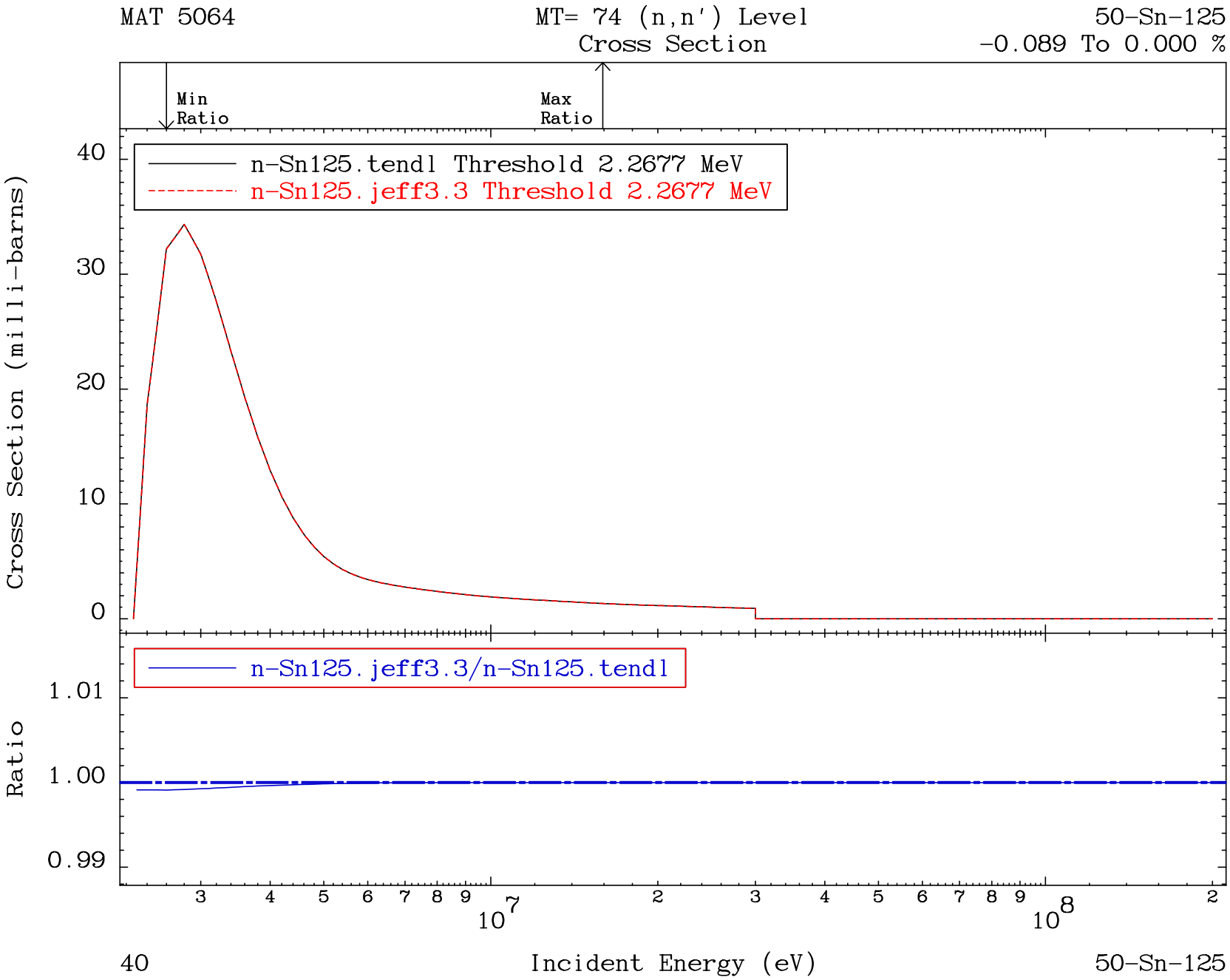

MAT 5064
MT= 69 (n,n') Level
Cross Section
50-Sn-125
-0.373 To 0.000 %
Min
Ratio
Max
Ratio
n-Sn125.tendl Threshold 1.9081 MeV
n-Sn125.jeff3.3 Threshold 1.9081 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
35
Incident Energy (eV)
50-Sn-125

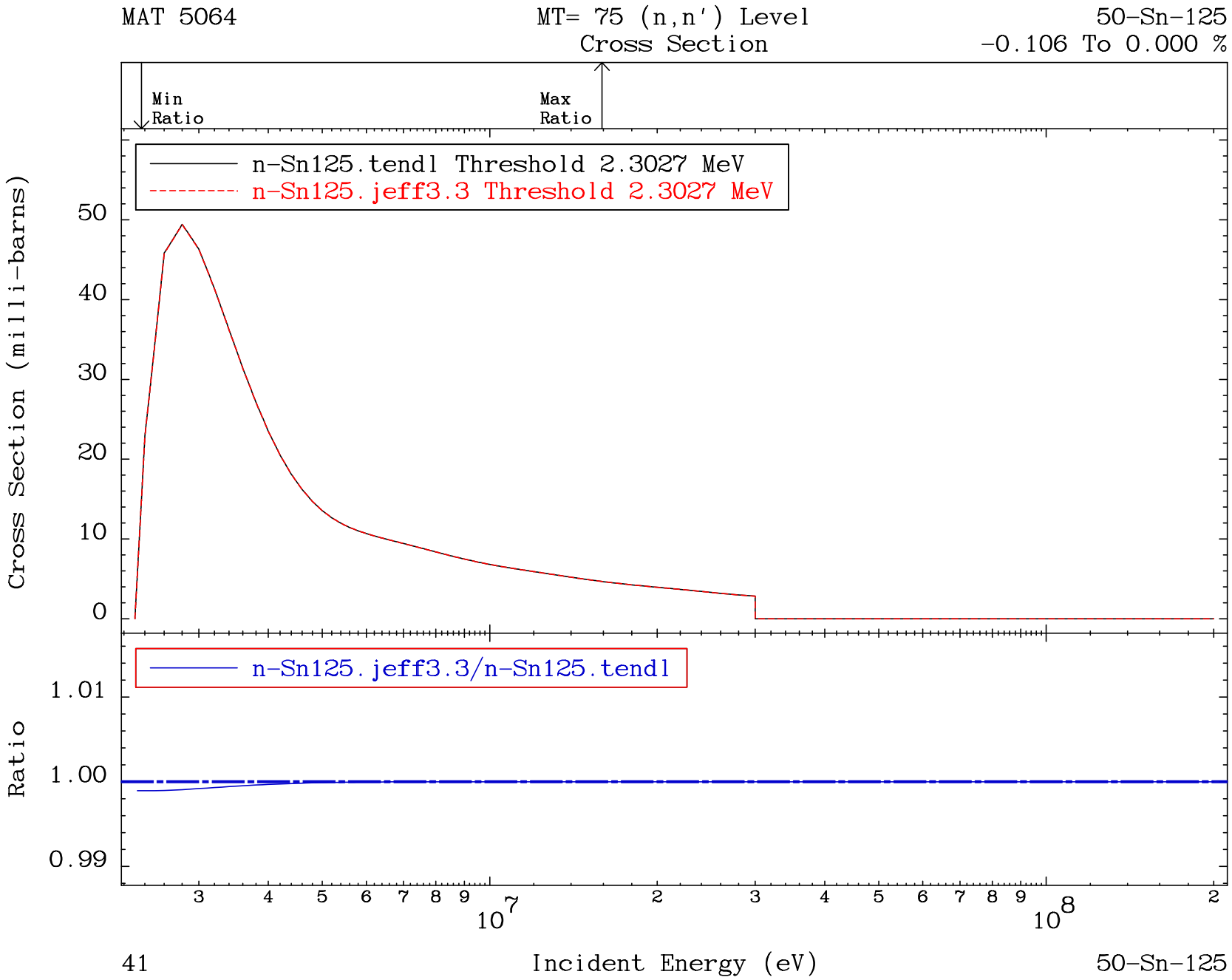

MAT 5064
MT= 70 (n,n') Level
Cross Section
50-Sn-125
-0.316 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 2.0761 MeV
n-Sn125.jeff3.3 Threshold 2.0761 MeV
Cross Section (milli-barns)
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
Incident Energy (eV)
36
50-Sn-125

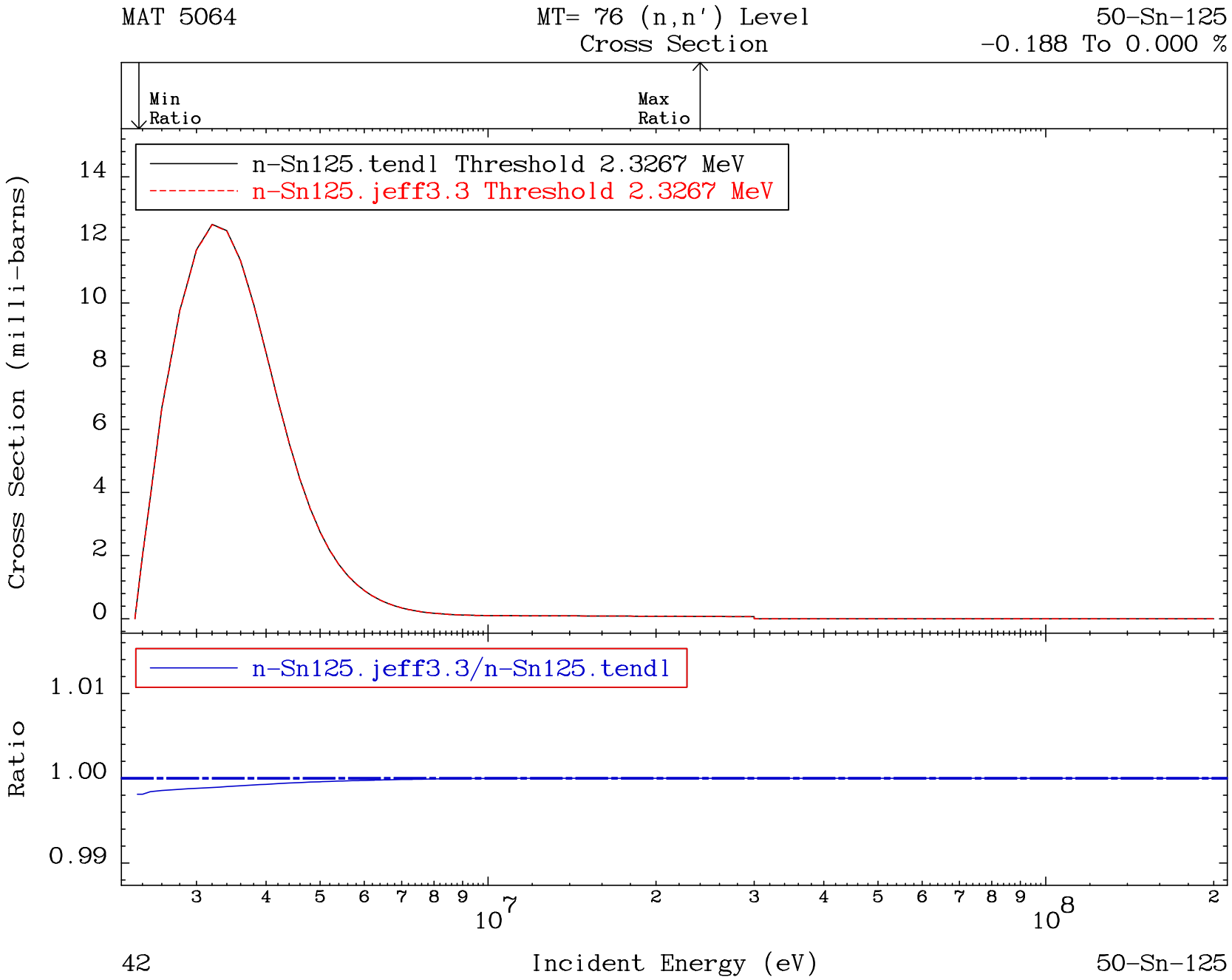

MAT 5064
MT= 71 (n,n') Level
Cross Section
50-Sn-125
-0.223 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 2.0928 MeV
n-Sn125.jeff3.3 Threshold 2.0928 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
50-Sn-125

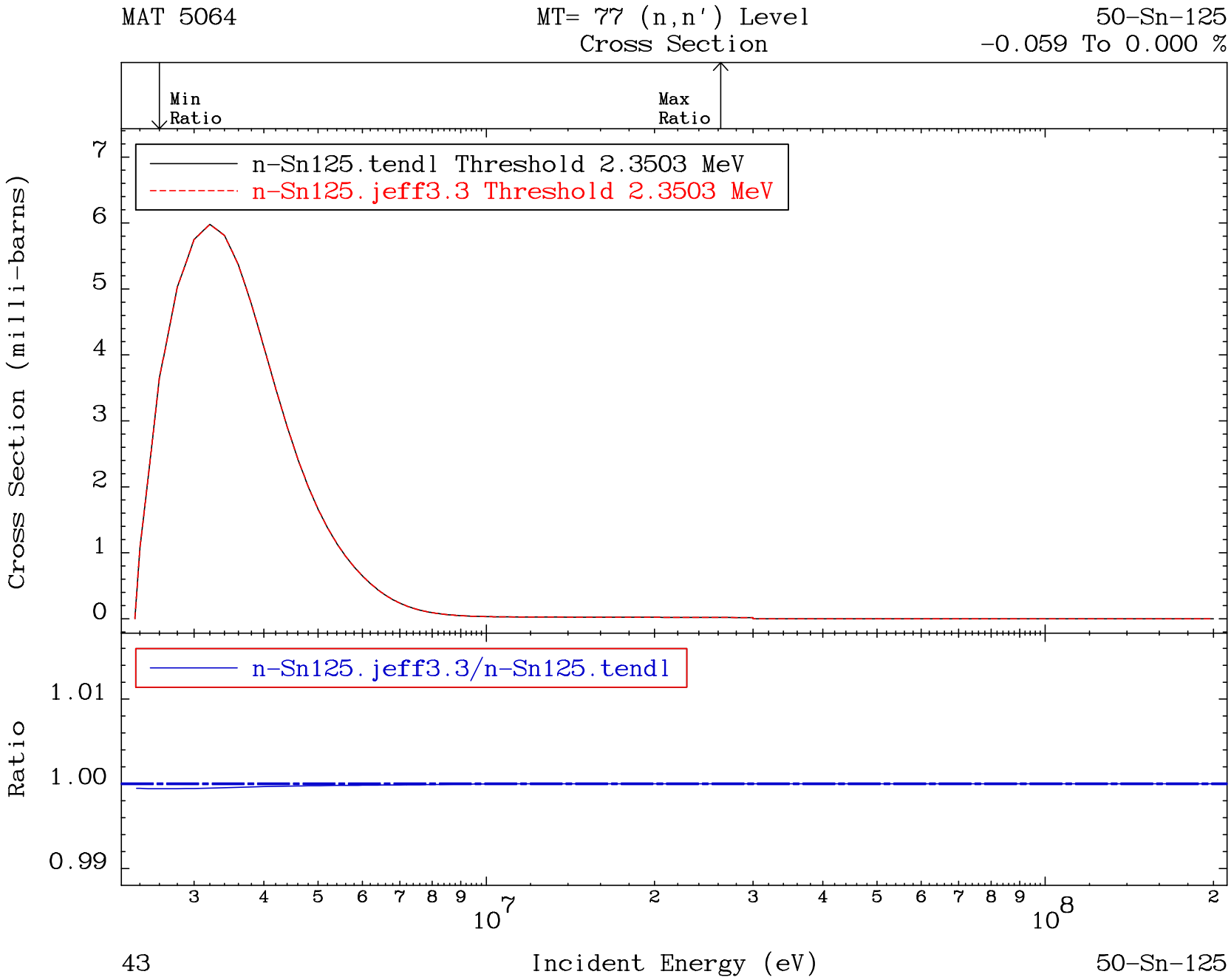

MAT 5064
MT= 72 (n,n') Level
Cross Section
50-Sn-125
-0.235 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 2.1529 MeV
n-Sn125.jeff3.3 Threshold 2.1529 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
50-Sn-125

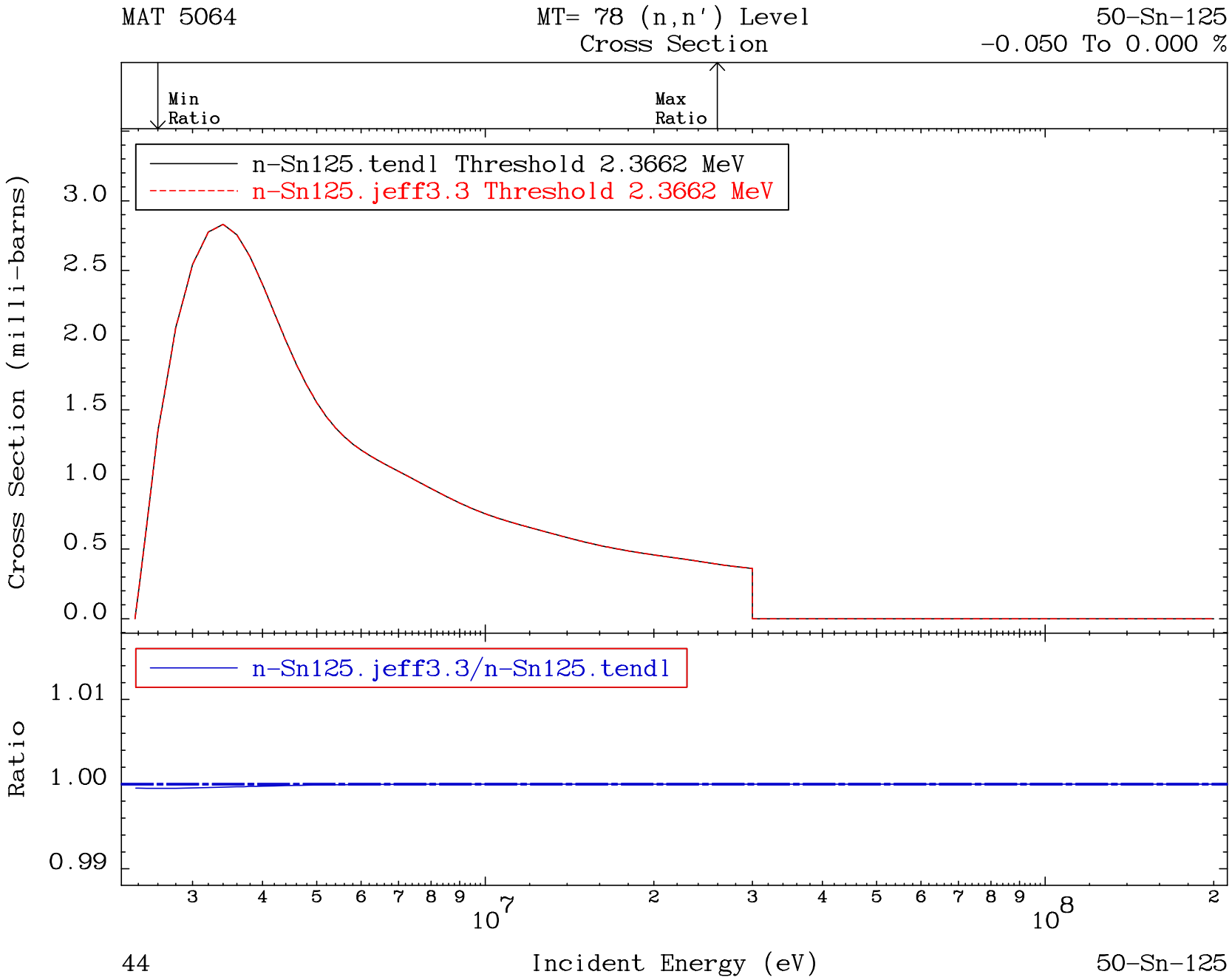

MAT 5064
MT= 73 (n,n') Level
Cross Section
50-Sn-125
-0.060 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 2.1937 MeV
n-Sn125.jeff3.3 Threshold 2.1937 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
0.99
1.00
1.01
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
50-Sn-125

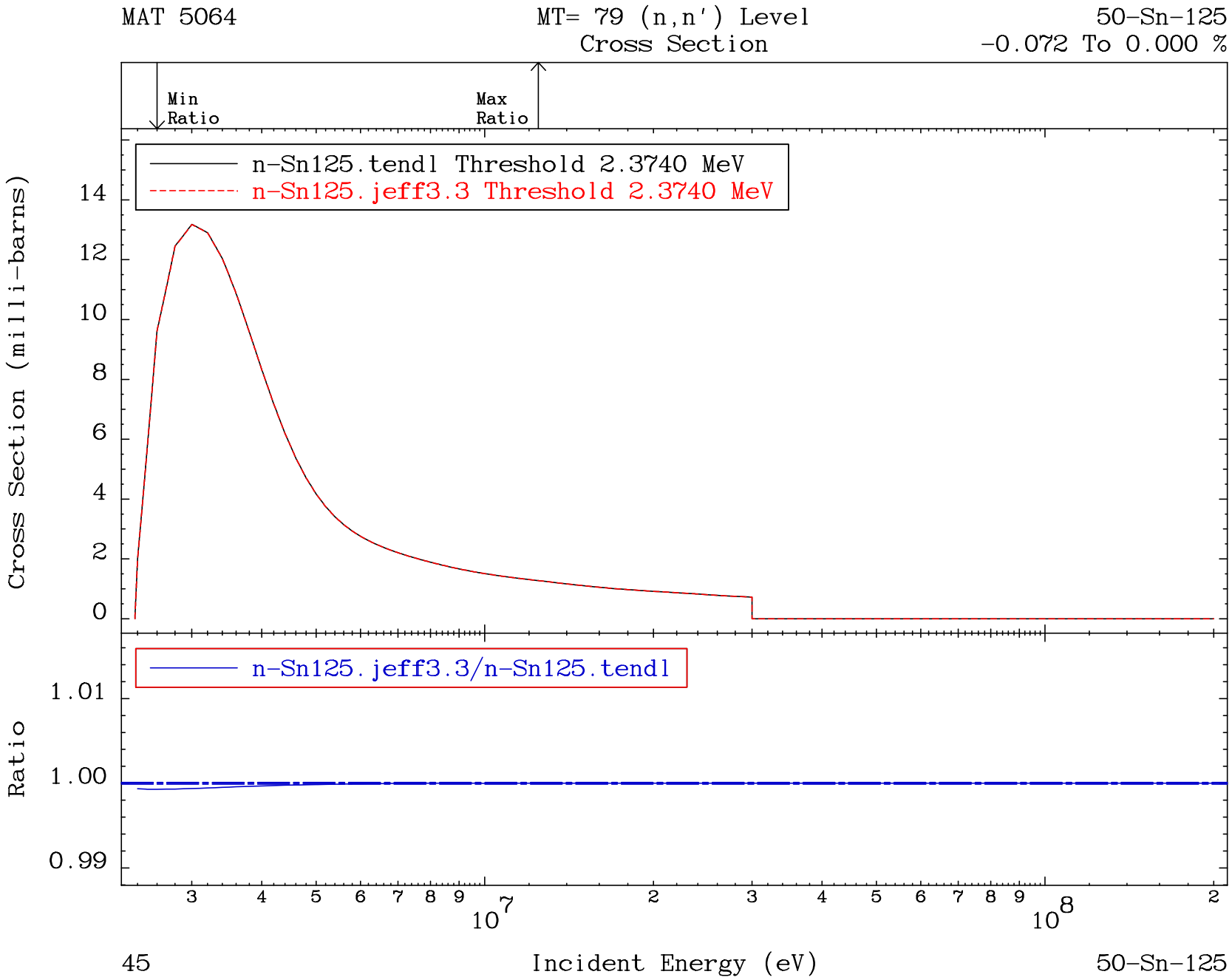

MAT 5064
MT= 74 (n,n') Level
Cross Section
50-Sn-125
-0.089 To 0.000 %
Min
Ratio
Max
Ratio
n-Sn125.tendl Threshold 2.2677 MeV
n-Sn125.jeff3.3 Threshold 2.2677 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
40
Incident Energy (eV)
50-Sn-125

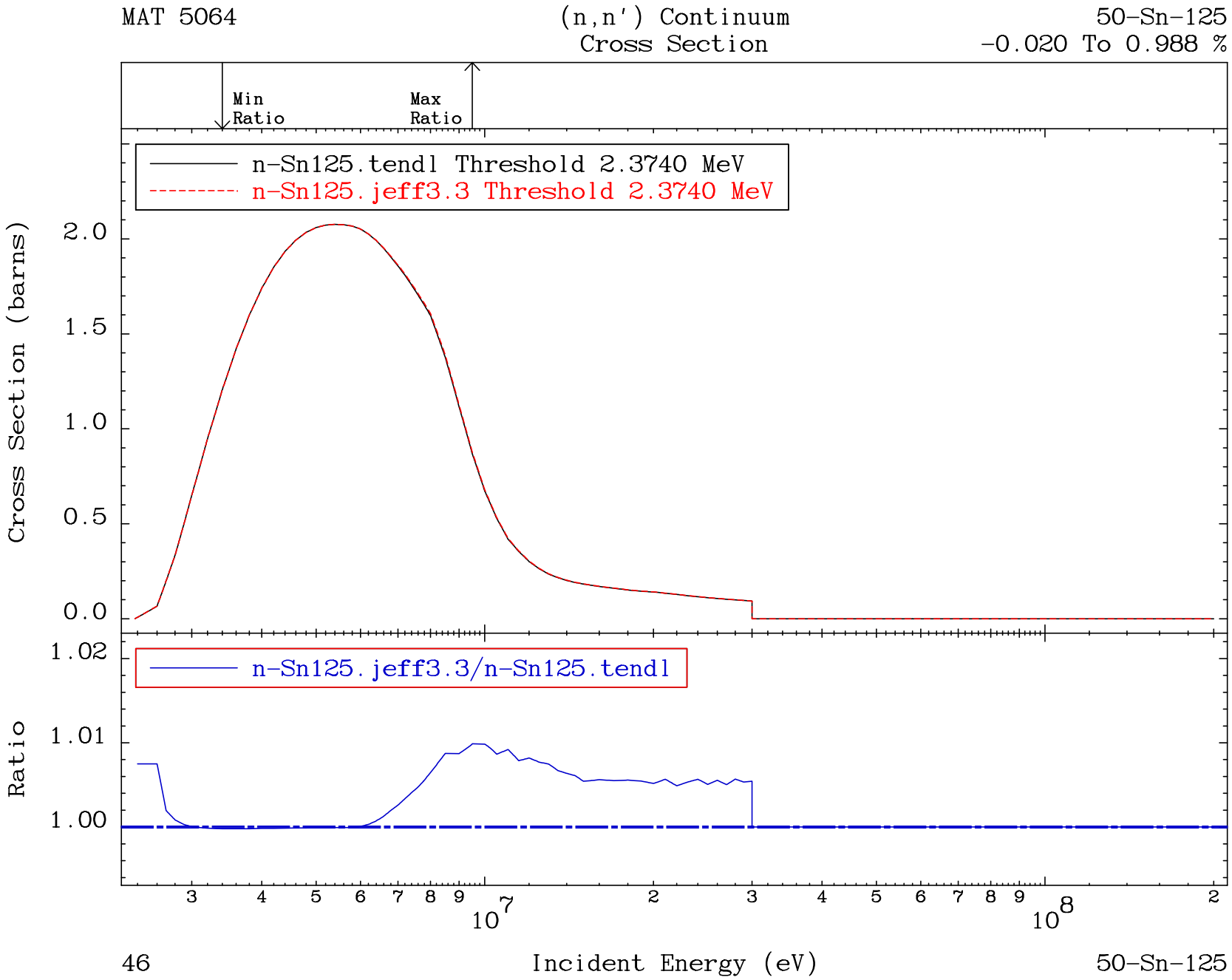

MAT 5064
MT= 75 (n,n') Level
Cross Section
50-Sn-125
-0.106 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 2.3027 MeV
n-Sn125.jeff3.3 Threshold 2.3027 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
41
Incident Energy (eV)
50-Sn-125

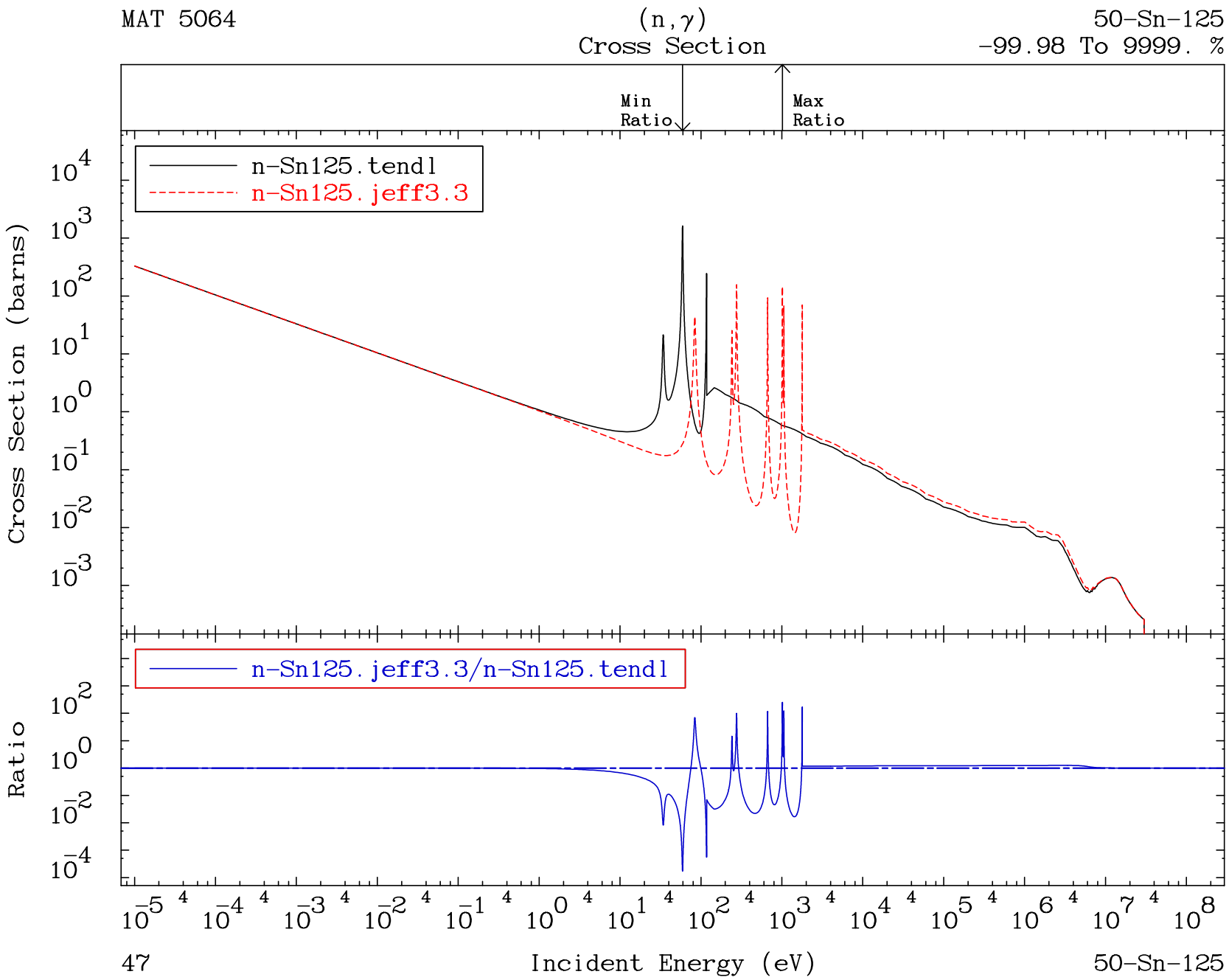

MAT 5064
MT= 76 (n,n') Level
Cross Section
50-Sn-125
-0.188 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 2.3267 MeV
n-Sn125.jeff3.3 Threshold 2.3267 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
50-Sn-125

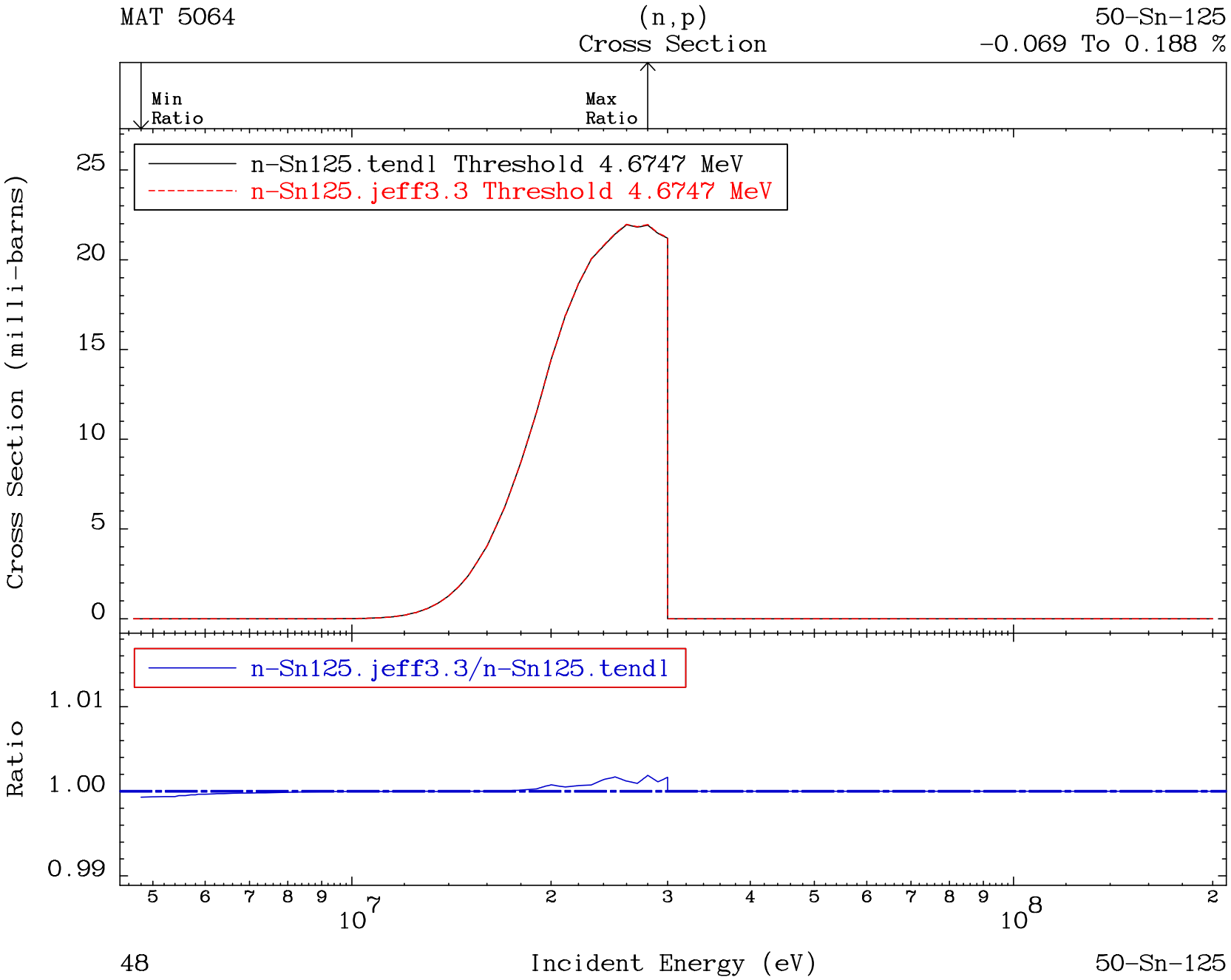

MAT 5064
MT= 77 (n,n') Level
Cross Section
50-Sn-125
-0.059 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 2.3503 MeV
n-Sn125.jeff3.3 Threshold 2.3503 MeV
Cross Section (milli-barns)
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
Incident Energy (eV)
43
50-Sn-125

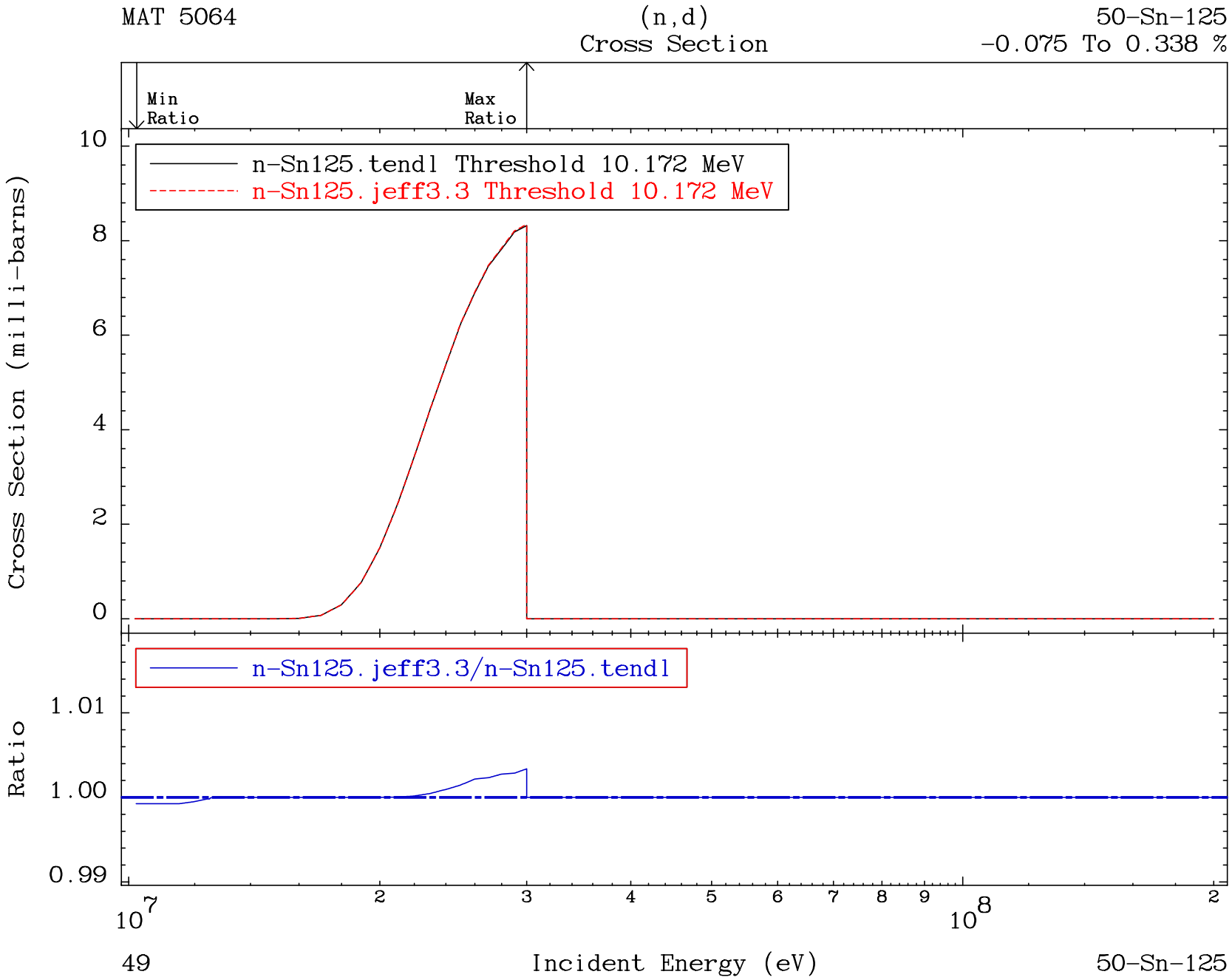

MAT 5064
MT= 78 (n,n') Level
Cross Section
50-Sn-125
-0.050 To 0.000 %
Min
Ratio
Max
Ratio
n-Sn125.tendl Threshold 2.3662 MeV
n-Sn125.jeff3.3 Threshold 2.3662 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
44
Incident Energy (eV)
50-Sn-125

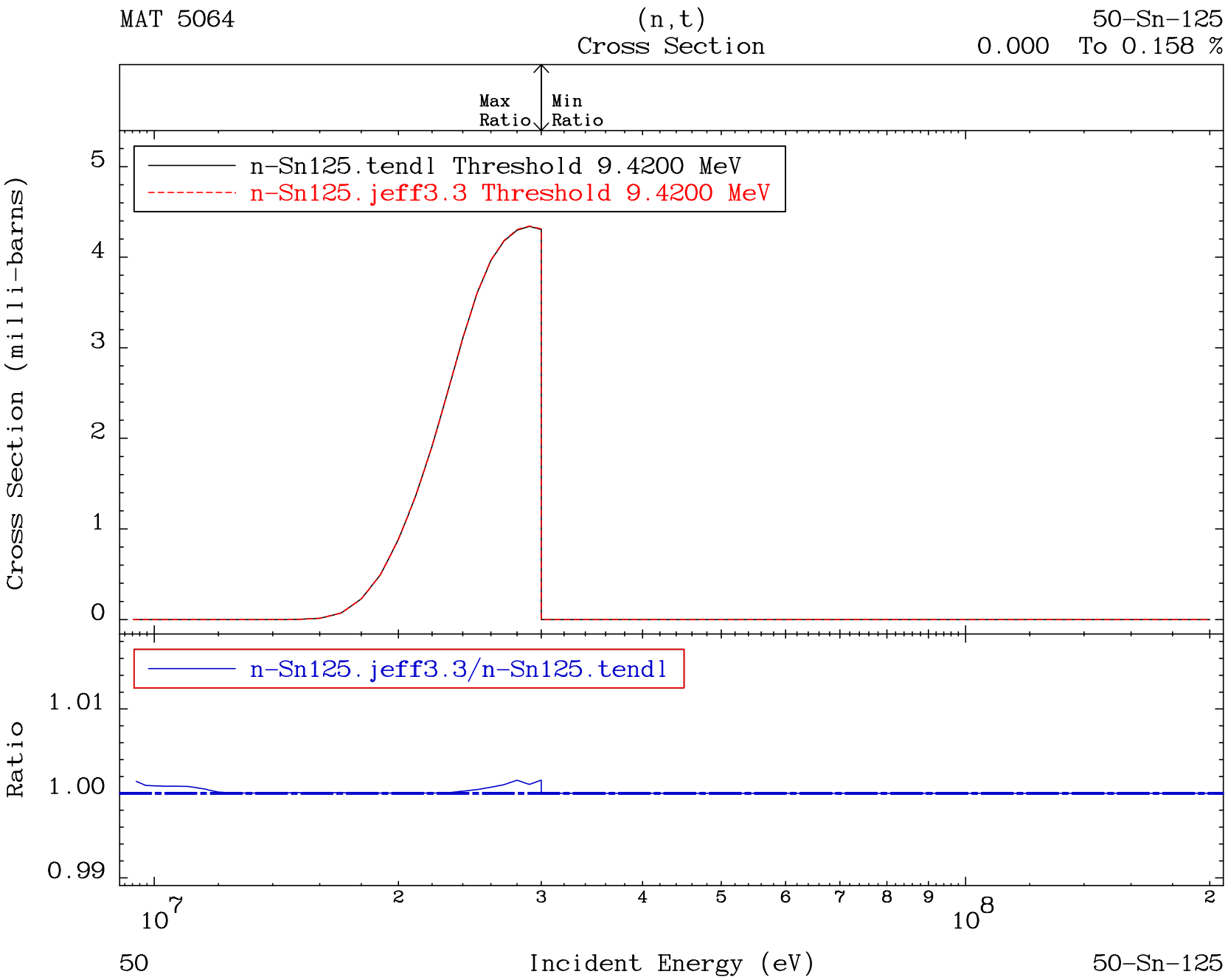

MAT 5064
MT= 79 (n,n') Level
Cross Section
50-Sn-125
-0.072 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 2.3740 MeV
n-Sn125.jeff3.3 Threshold 2.3740 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
0.99
1.00
1.01
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
50-Sn-125

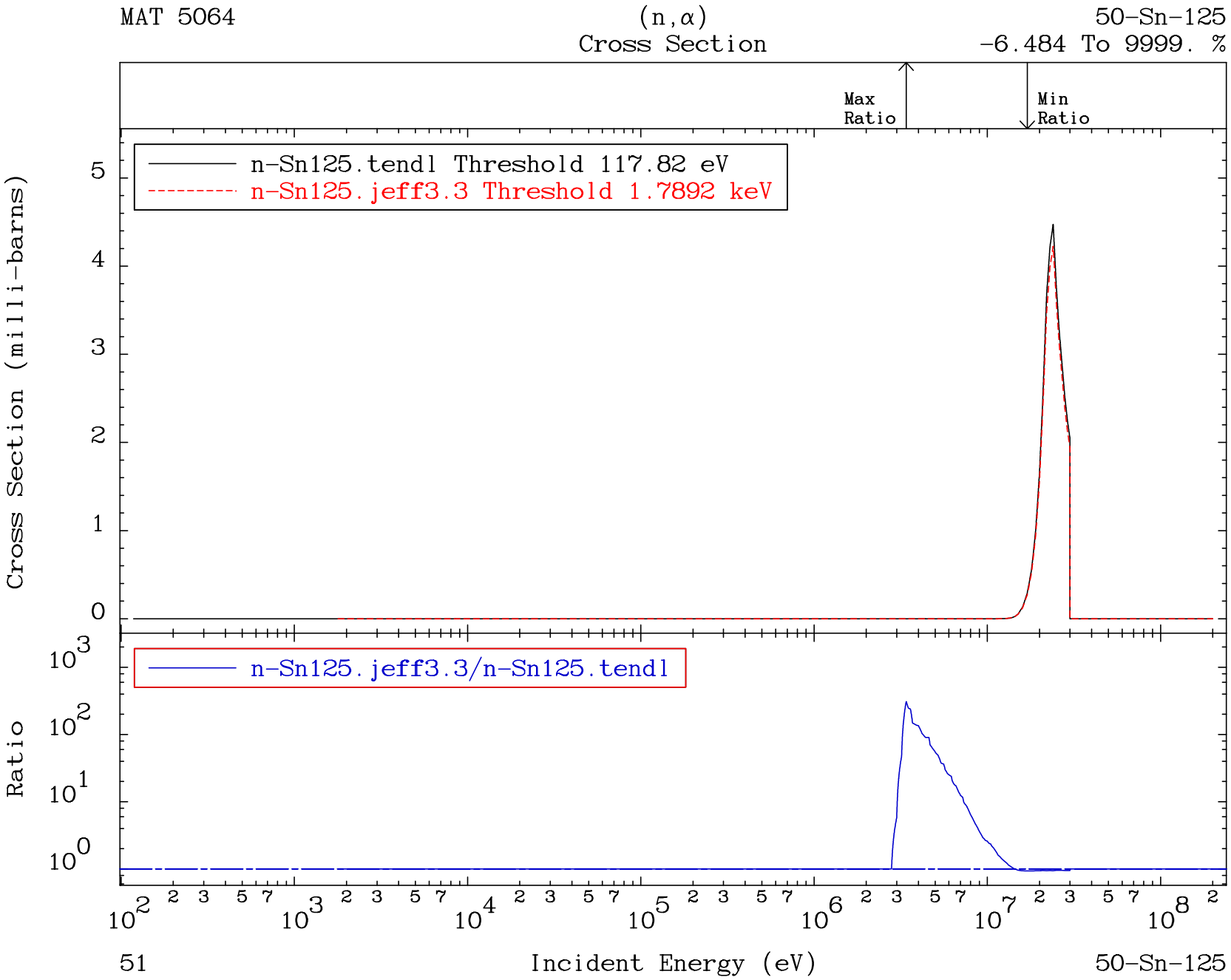

MAT 5064
(n,n') Continuum
Cross Section
50-Sn-125
-0.020 To 0.988 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 2.3740 MeV
n-Sn125.jeff3.3 Threshold 2.3740 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
46
Incident Energy (eV)
50-Sn-125

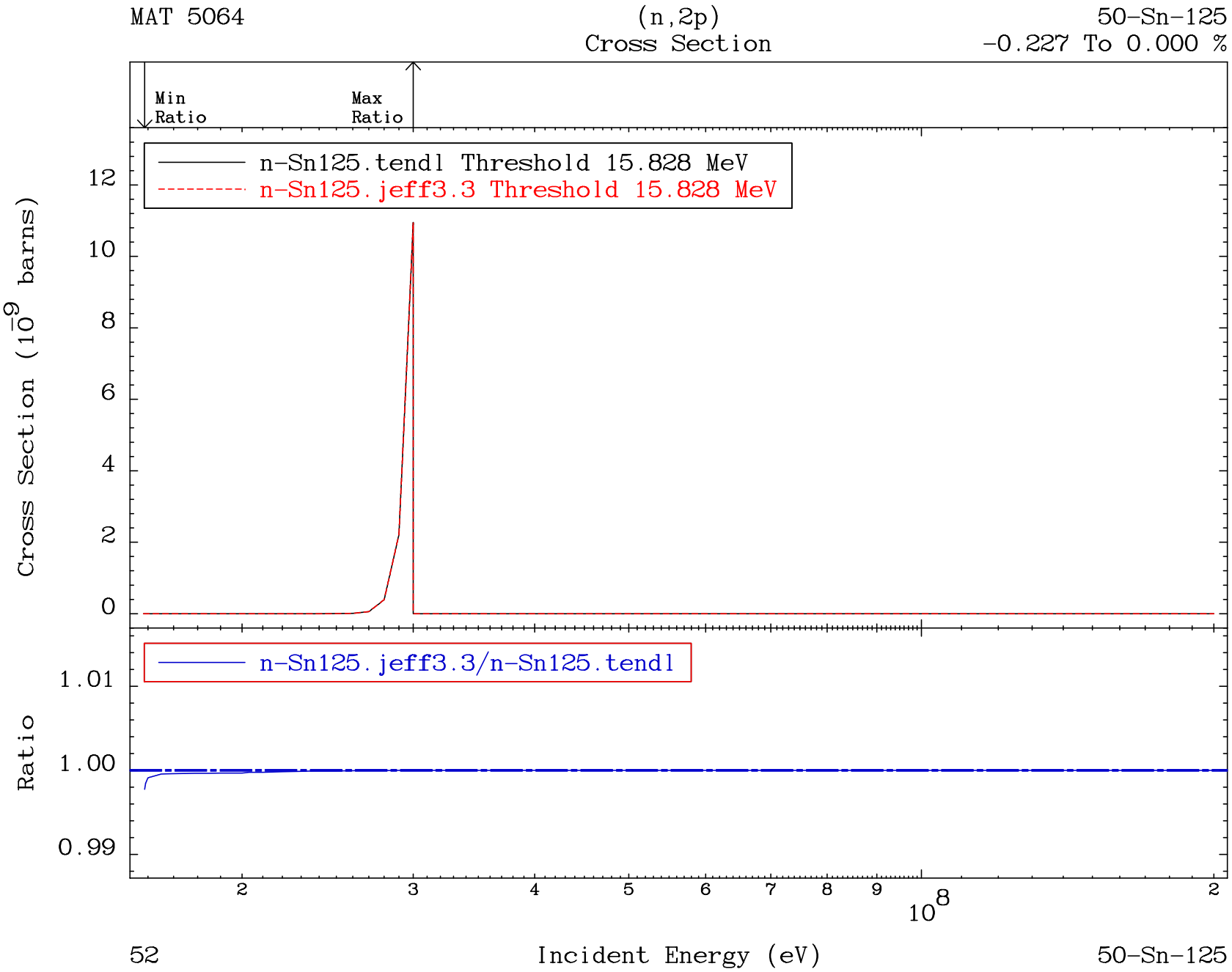

MAT 5064
(n,γ)
Cross Section
50-Sn-125
-99.98 To 9999. %
Min Ratio
Max Ratio
n-Sn125.tendl
n-Sn125.jeff3.3
Cross Section (barns)
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
47
Incident Energy (eV)
50-Sn-125

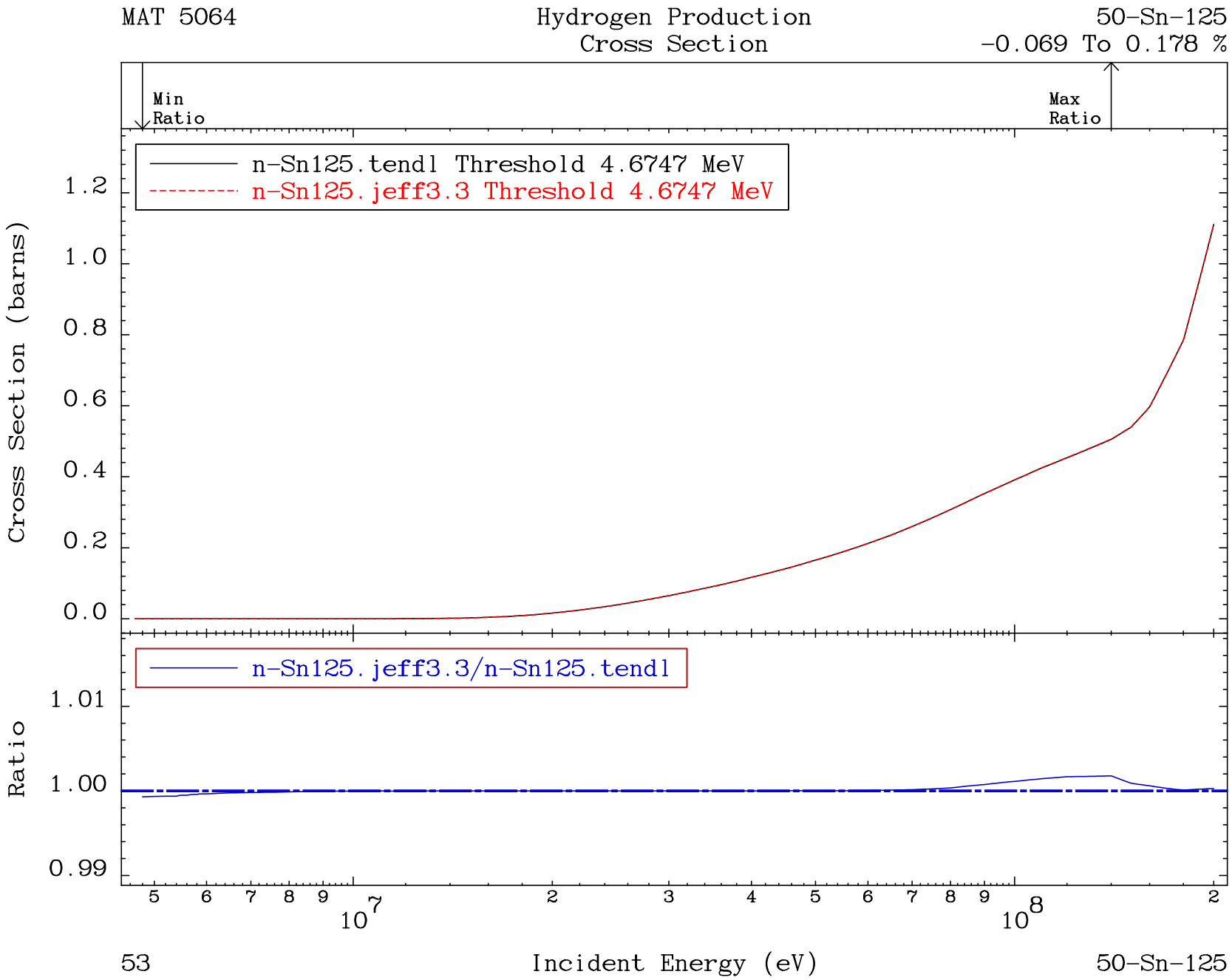

MAT 5064
(n,p)
Cross Section
50-Sn-125
-0.069 To 0.188 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 4.6747 MeV
n-Sn125.jeff3.3 Threshold 4.6747 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
48
Incident Energy (eV)
50-Sn-125

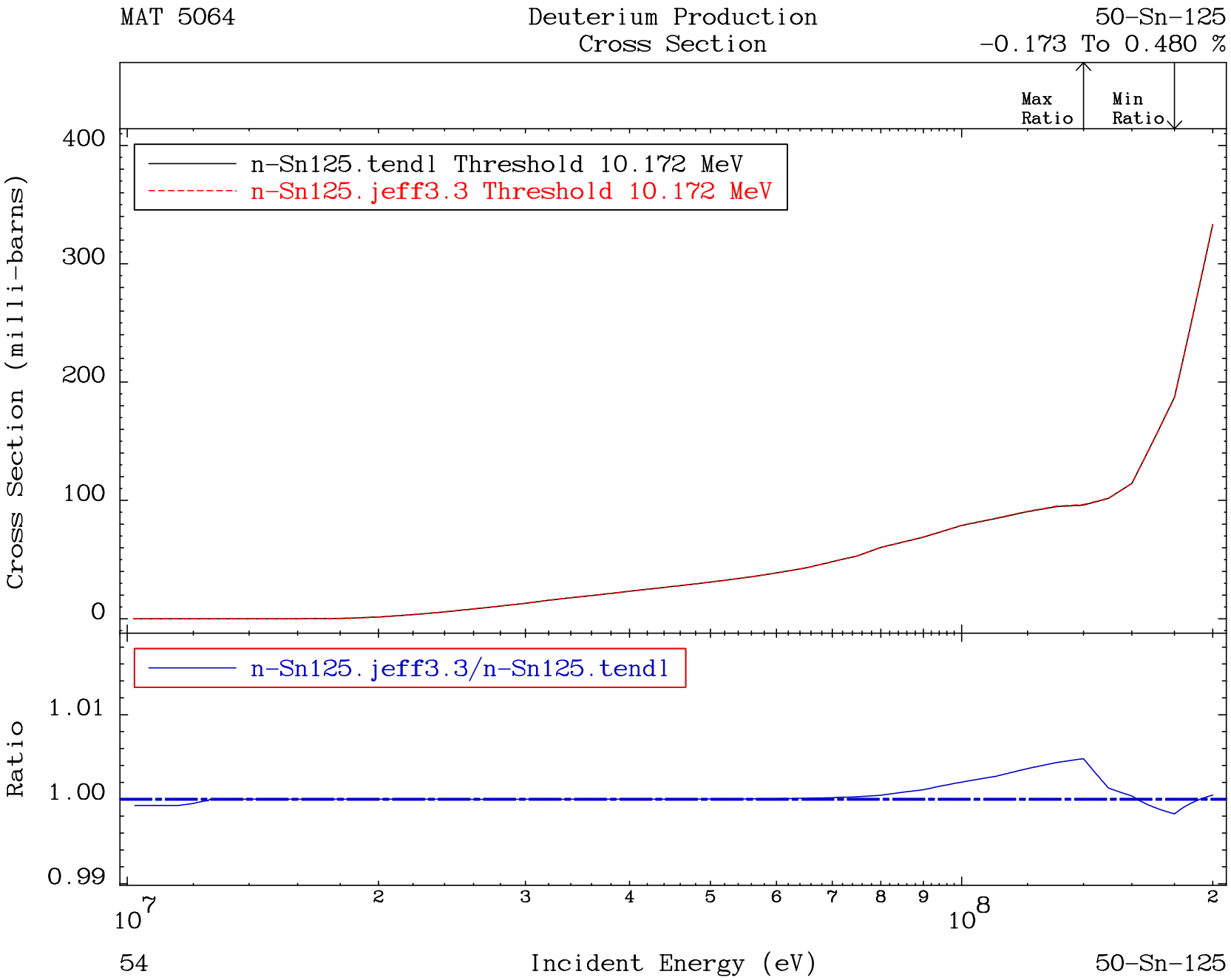

MAT 5064
(n,d)
Cross Section
50-Sn-125
-0.075 To 0.338 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 10.172 MeV
n-Sn125.jeff3.3 Threshold 10.172 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
10^7
2
3
4
5
6
7
8
9
10^8
2
49
Incident Energy (eV)
50-Sn-125

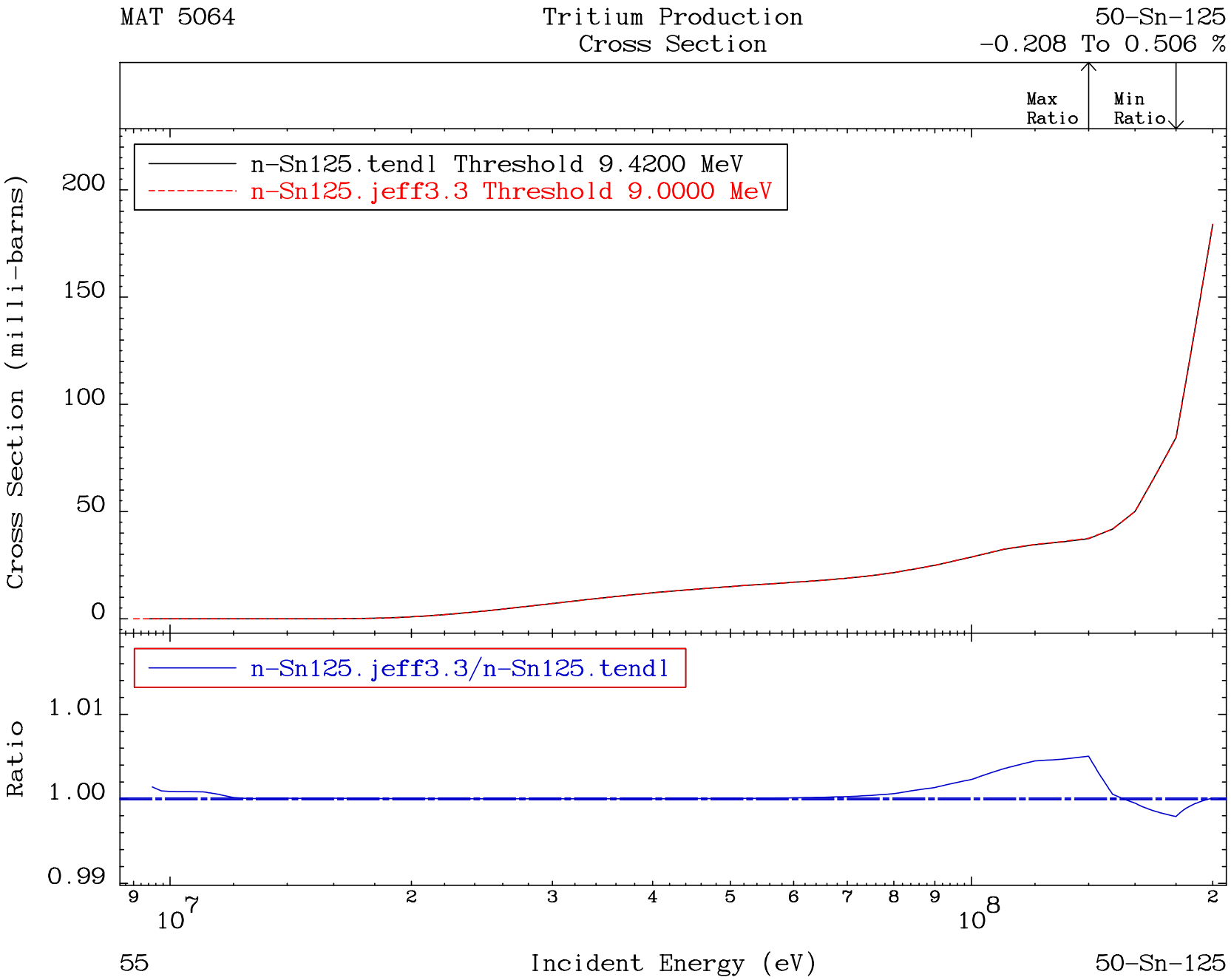

MAT 5064
(n,t)
Cross Section
50-Sn-125
0.000 To 0.158 %
Max Ratio
Min Ratio
n-Sn125.tendl Threshold 9.4200 MeV
n-Sn125.jeff3.3 Threshold 9.4200 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
0.99
1.00
1.01
10^7
2
3
4
5
6
7
8
9
10^8
2
50
Incident Energy (eV)
50-Sn-125

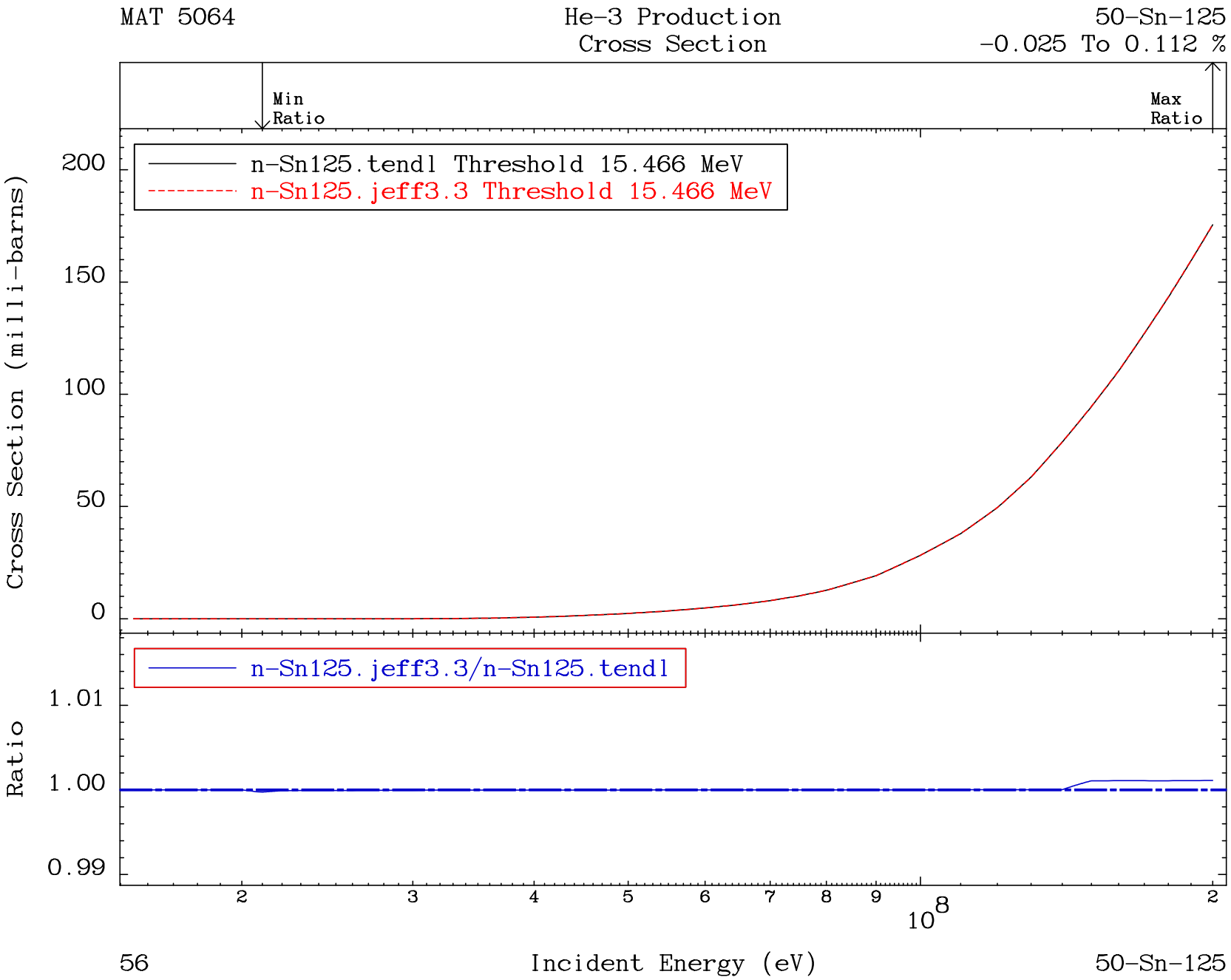

MAT 5064
(n,α)
Cross Section
50-Sn-125
-6.484 To 9999. %
Max Ratio
Min Ratio
n-Sn125.tendl Threshold 117.82 eV
n-Sn125.jeff3.3 Threshold 1.7892 keV
Cross Section (milli-barns)
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
Incident Energy (eV)
51
50-Sn-125

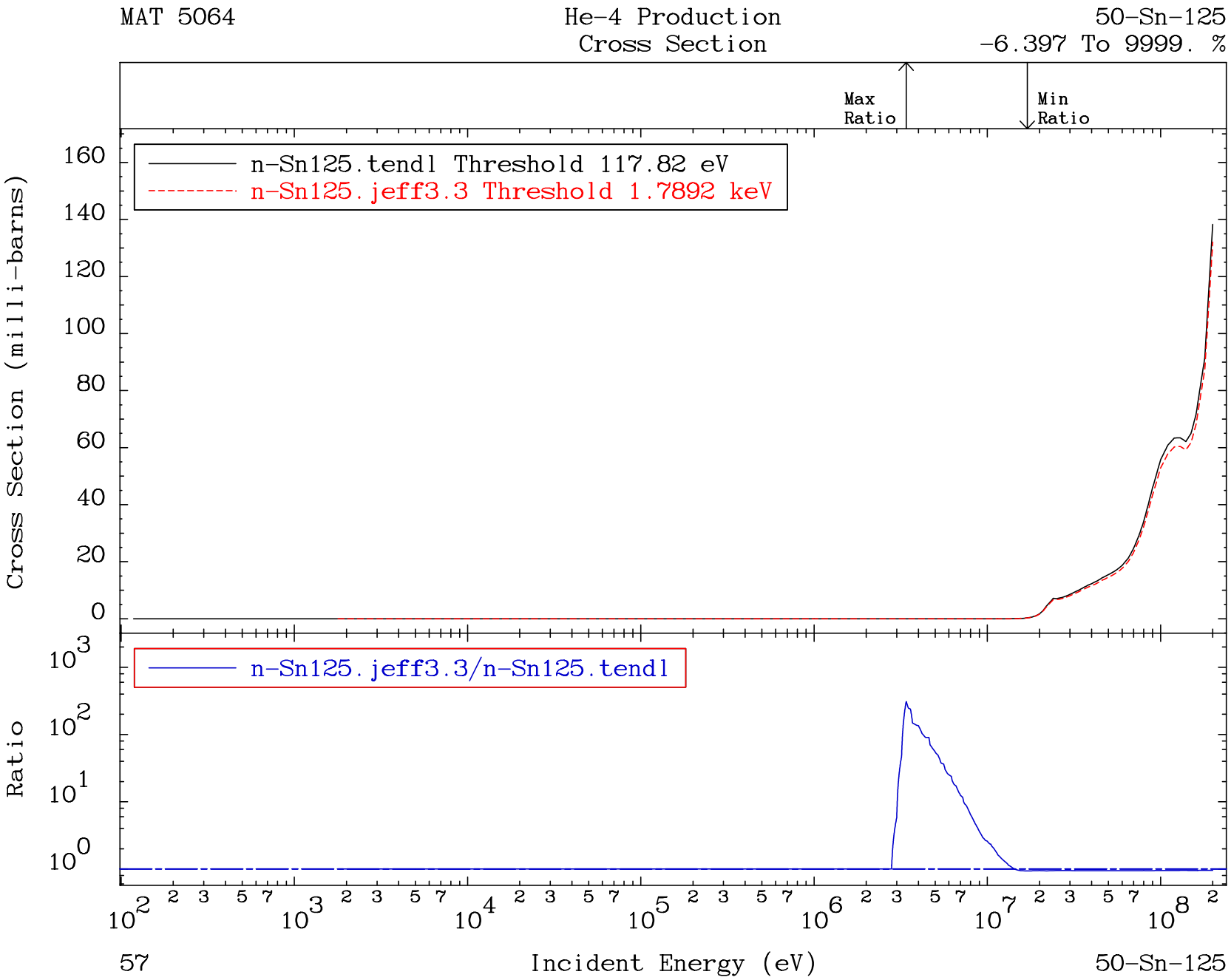

MAT 5064
(n,2p)
Cross Section
50-Sn-125
-0.227 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 15.828 MeV
n-Sn125.jeff3.3 Threshold 15.828 MeV
Cross Section (10^{-9} barns)
12
10
8
6
4
2
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^{8}
2
52
Incident Energy (eV)
50-Sn-125

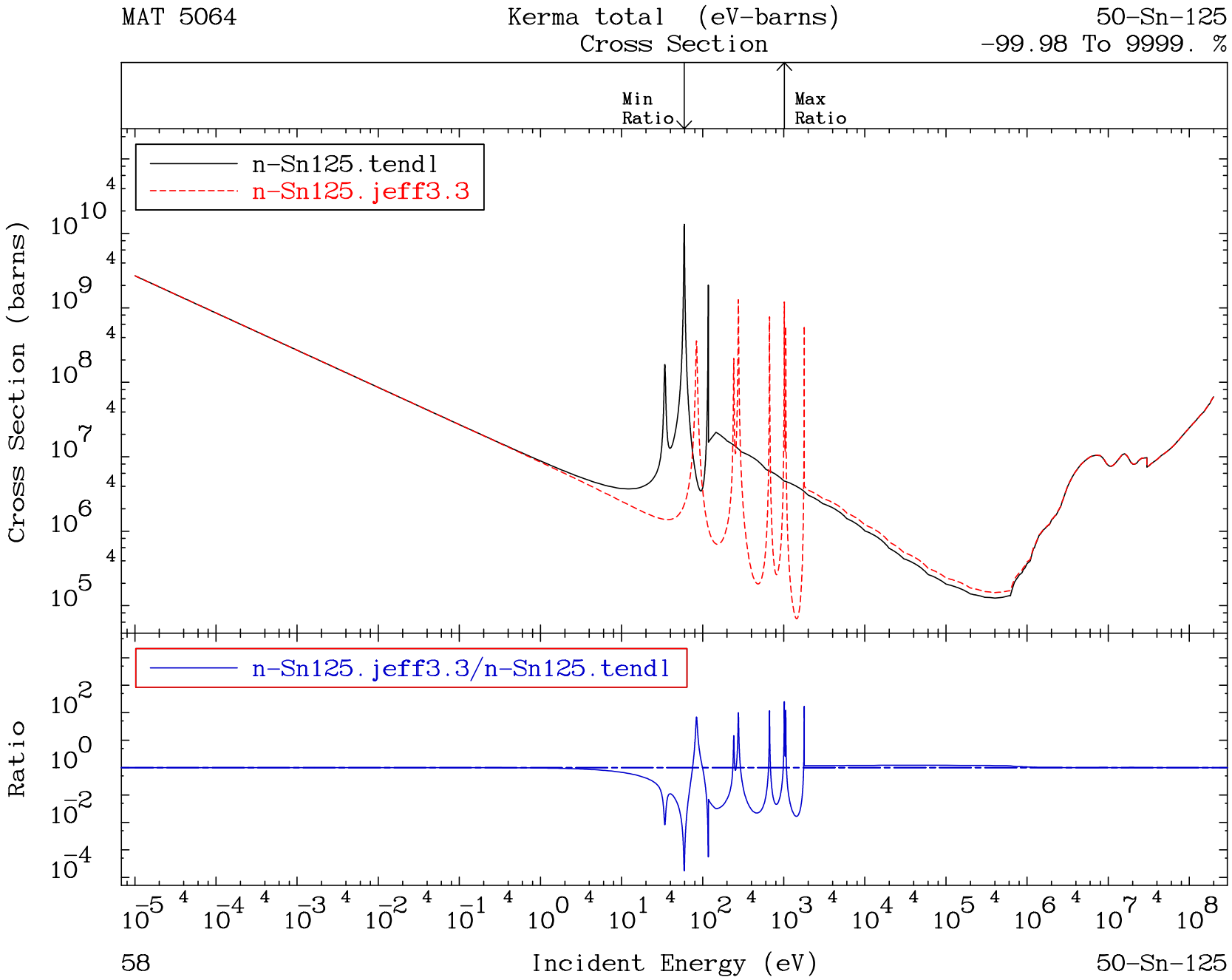

MAT 5064
Hydrogen Production
Cross Section
50-Sn-125
-0.069 To 0.178 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 4.6747 MeV
n-Sn125.jeff3.3 Threshold 4.6747 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
53
Incident Energy (eV)
50-Sn-125

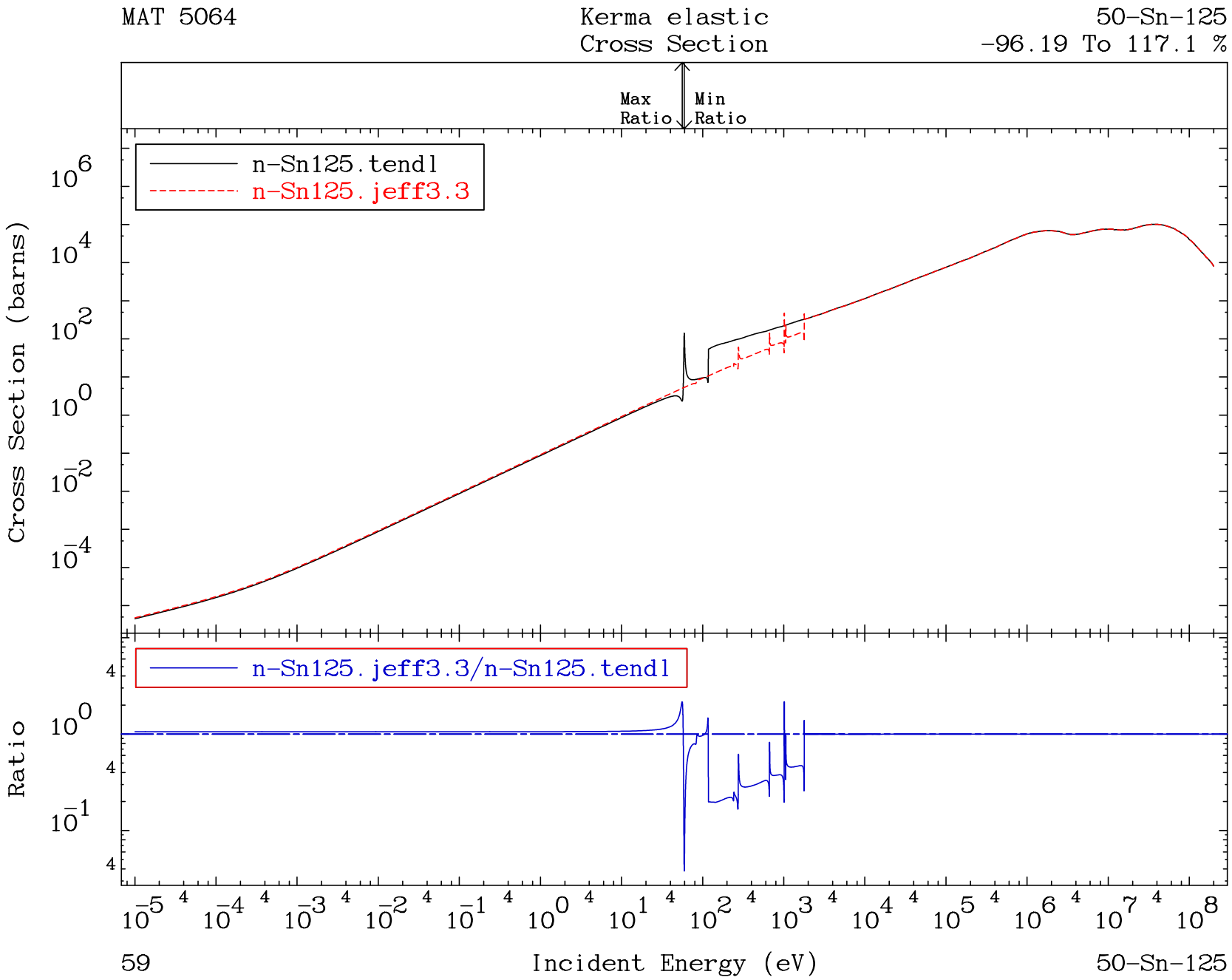

MAT 5064
Deuterium Production
Cross Section
50-Sn-125
-0.173 To 0.480 %
Max Ratio
Min Ratio
n-Sn125.tendl Threshold 10.172 MeV
n-Sn125.jeff3.3 Threshold 10.172 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
10^7
2
3
4
5
6
7
8
9
10^8
2
54
Incident Energy (eV)
50-Sn-125

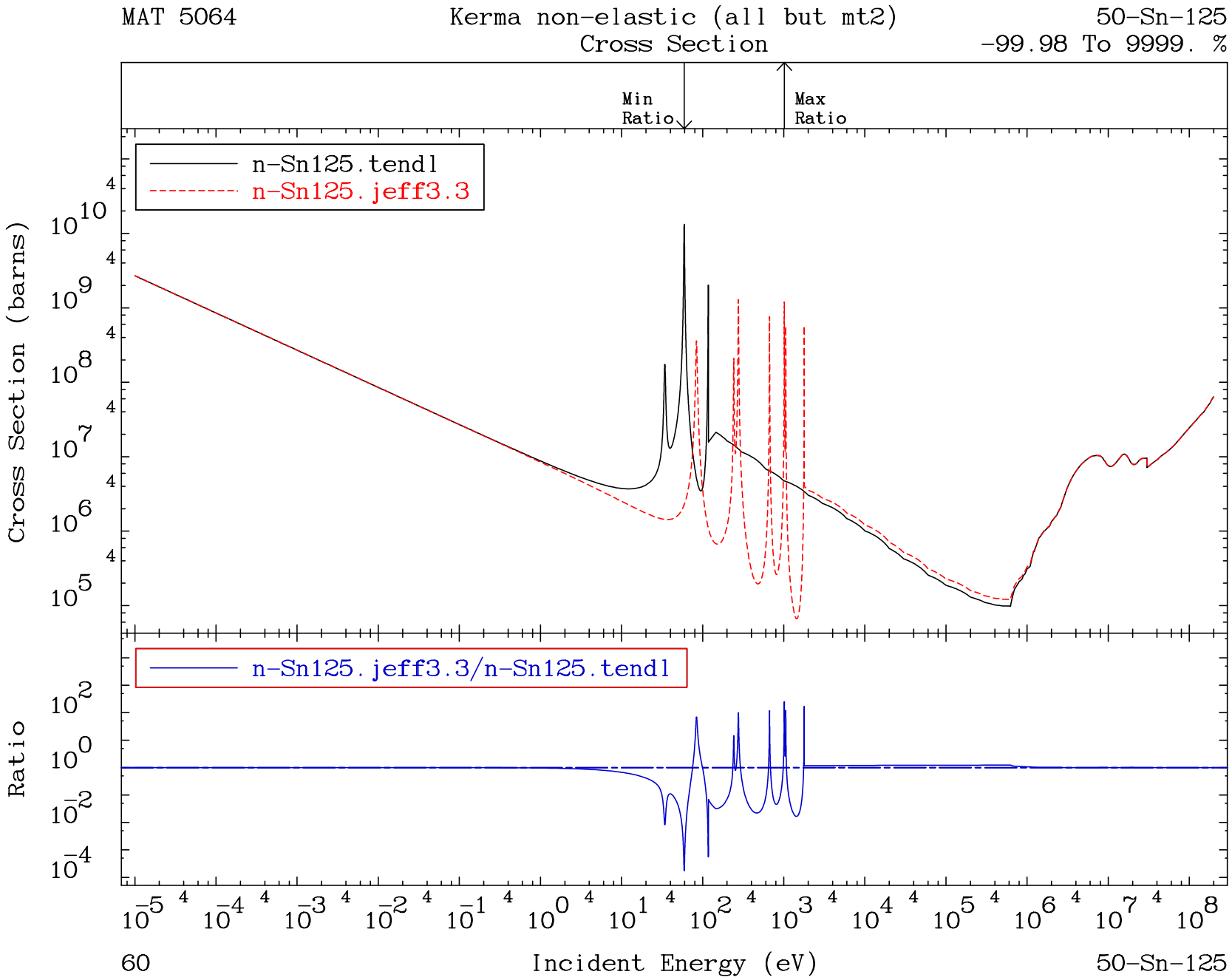

MAT 5064
Tritium Production
Cross Section
50-Sn-125
-0.208 To 0.506 %
Max Ratio
Min Ratio
n-Sn125.tendl Threshold 9.4200 MeV
n-Sn125.jeff3.3 Threshold 9.0000 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
9
10^7
2
3
4
5
6
7
8
9
10^8
2
55
Incident Energy (eV)
50-Sn-125

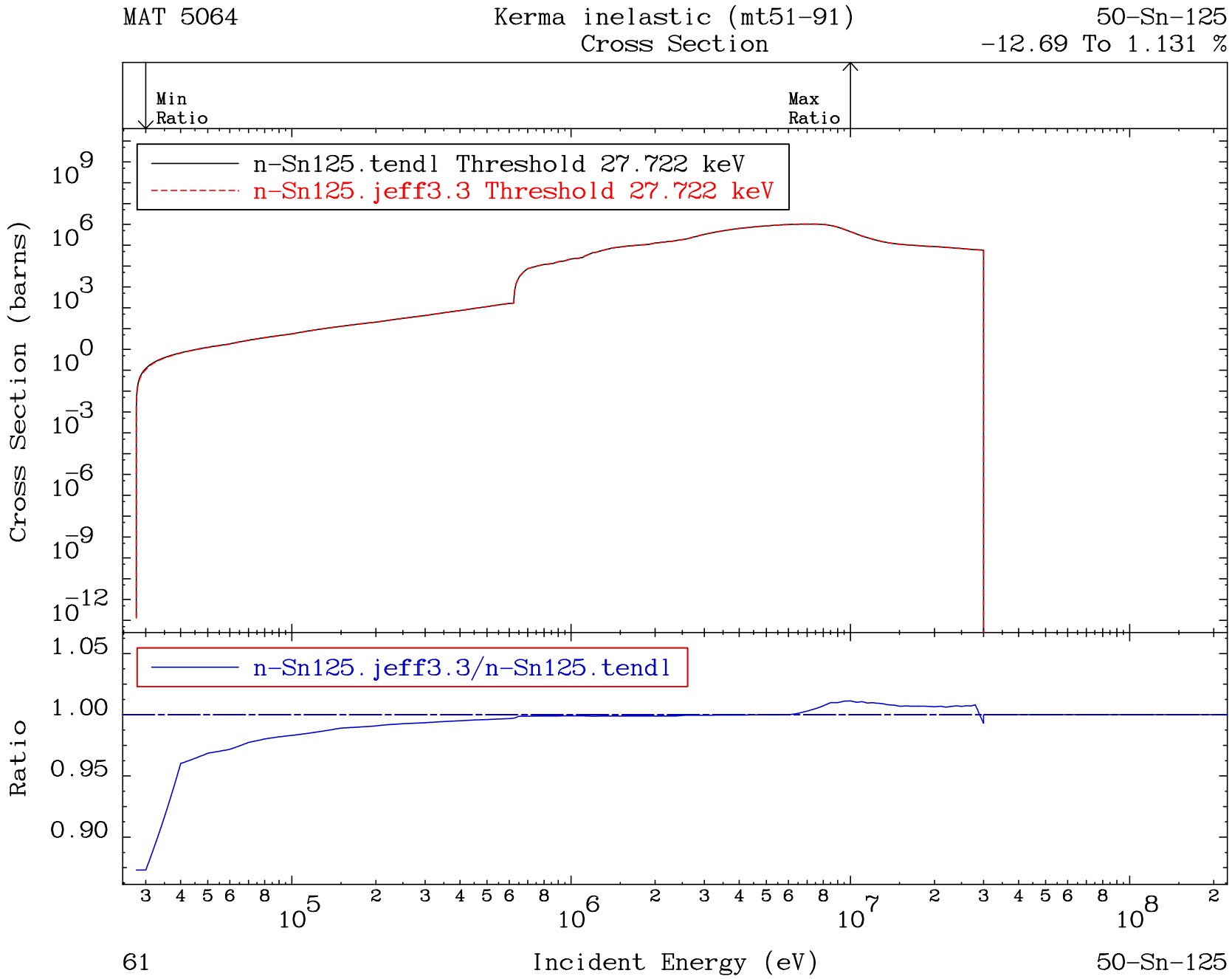

MAT 5064
He-3 Production
Cross Section
50-Sn-125
-0.025 To 0.112 %
Min
Ratio
Max
Ratio
n-Sn125.tendl Threshold 15.466 MeV
n-Sn125.jeff3.3 Threshold 15.466 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
56
Incident Energy (eV)
50-Sn-125

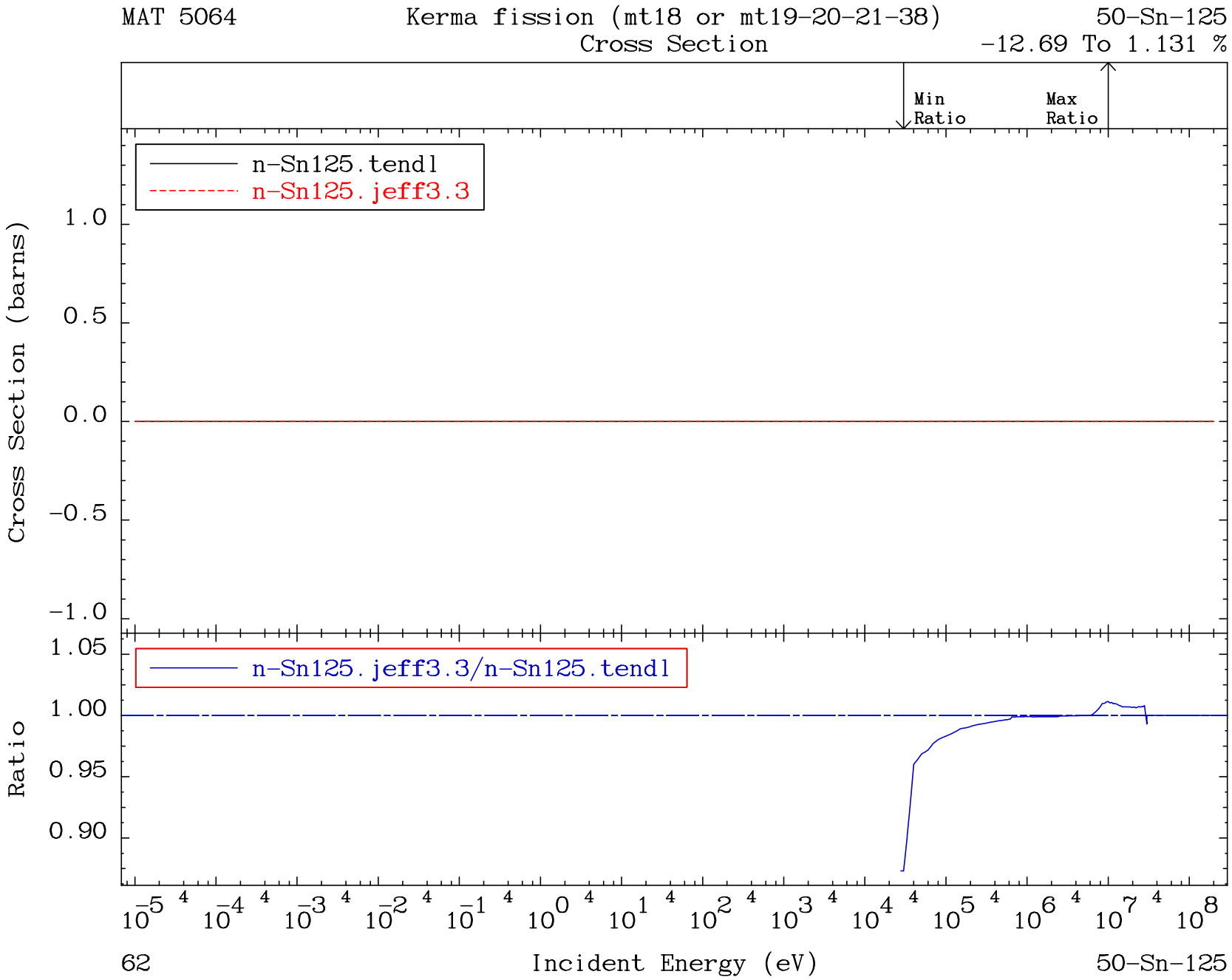

MAT 5064
He-4 Production
Cross Section
50-Sn-125
-6.397 To 9999. %
Max Ratio
Min Ratio
n-Sn125.tendl Threshold 117.82 eV
n-Sn125.jeff3.3 Threshold 1.7892 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
10^3
10^2
10^1
10^0
10^2 2 3 5 7 10^3 2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
57
Incident Energy (eV)
50-Sn-125

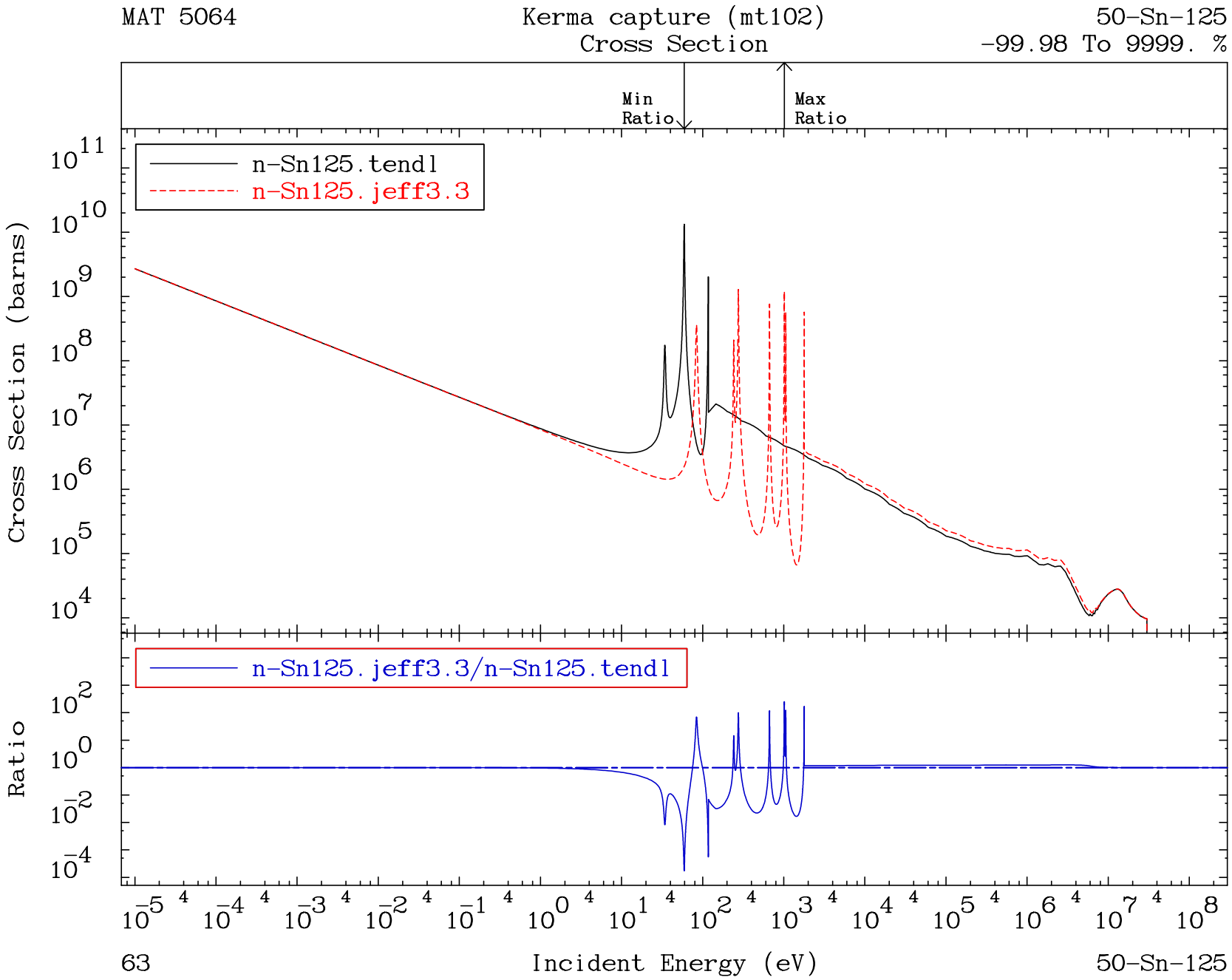

MAT 5064
Kerma total (eV-barns)
Cross Section
50-Sn-125
-99.98 To 9999. %
Min Ratio
Max Ratio
n-Sn125.tendl
n-Sn125.jeff3.3
Cross Section (barns)
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
58
Incident Energy (eV)
50-Sn-125

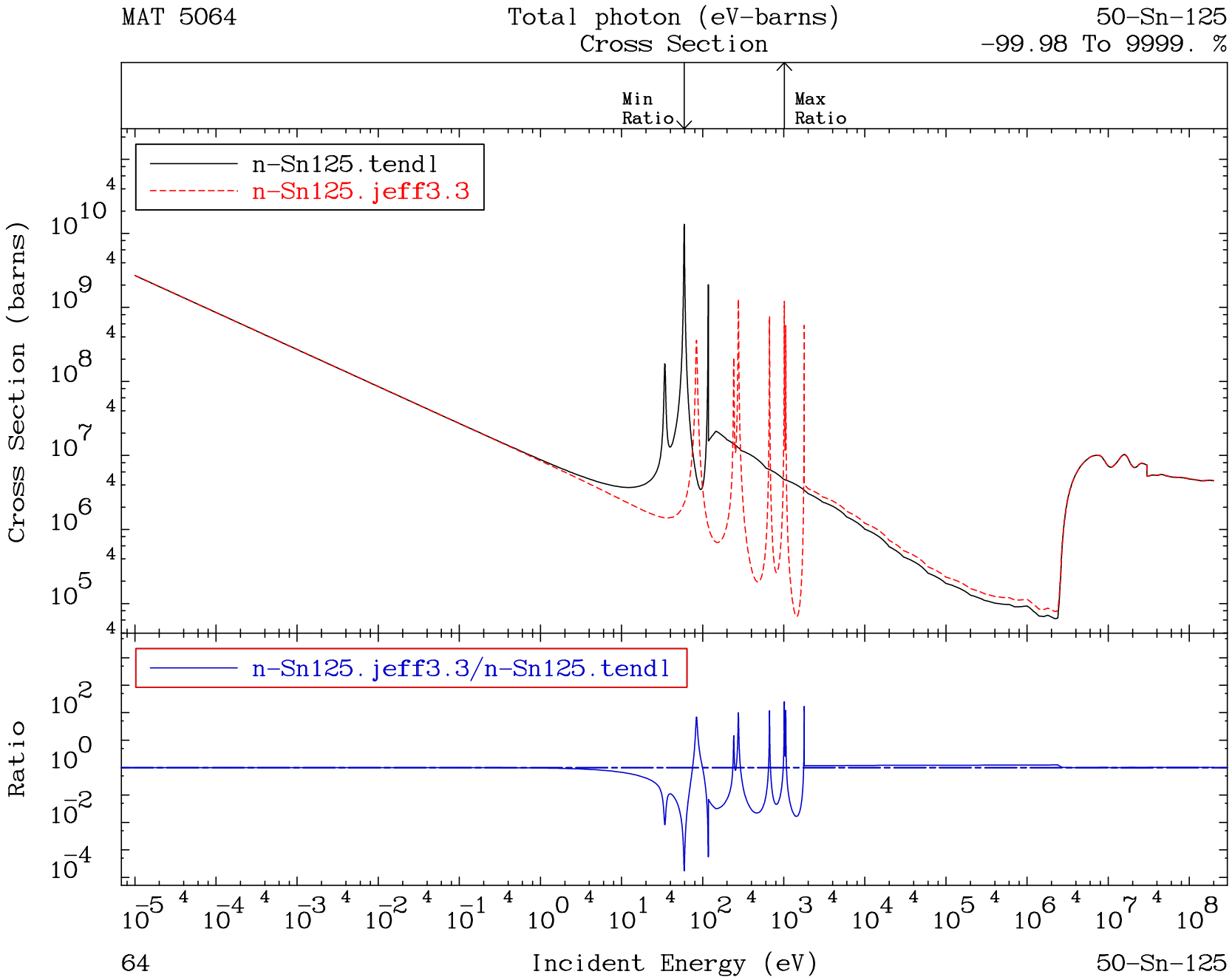

MAT 5064
Kerma elastic
Cross Section
50-Sn-125
-96.19 To 117.1 %
Max Ratio
Min Ratio
n-Sn125.tendl
n-Sn125.jeff3.3
Cross Section (barns)
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
59
Incident Energy (eV)
50-Sn-125

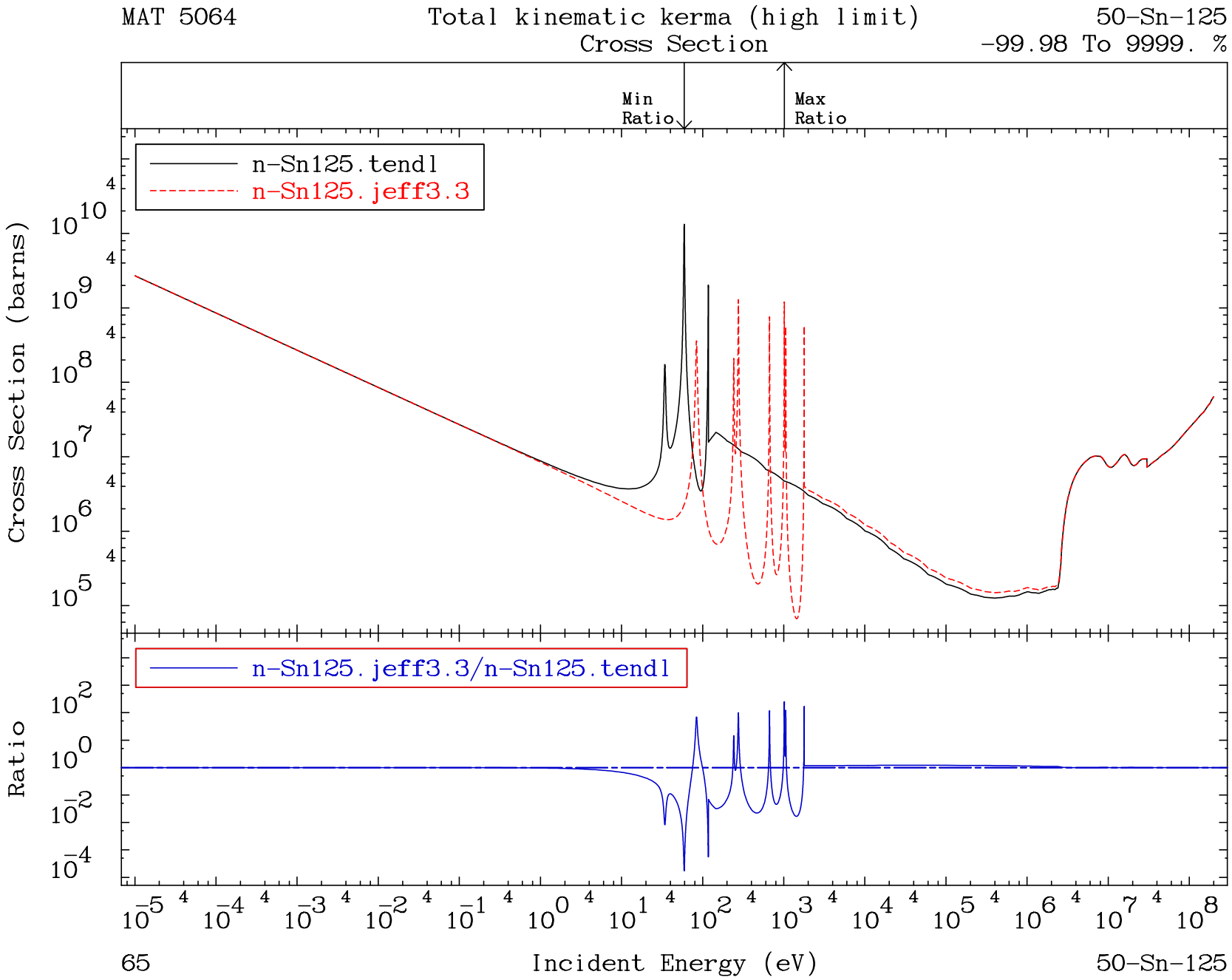

MAT 5064
Kerma non-elastic (all but mt2)
Cross Section
50-Sn-125
-99.98 To 9999. %
Min Ratio
Max Ratio
n-Sn125.tendl
n-Sn125.jeff3.3
Cross Section (barns)
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
Incident Energy (eV)
60
50-Sn-125

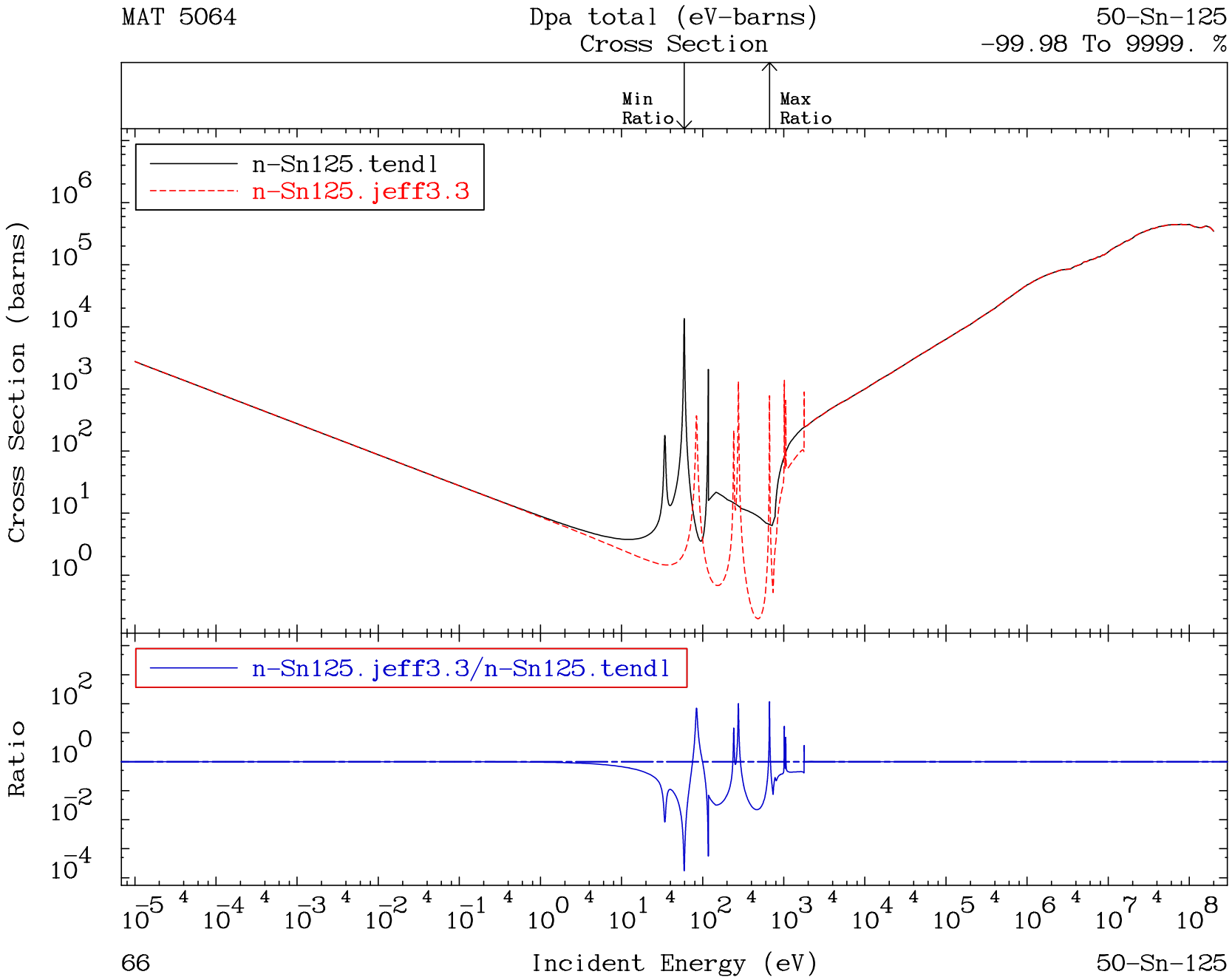

MAT 5064
Kerma inelastic (mt51-91)
Cross Section
50-Sn-125
-12.69 To 1.131 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 27.722 keV
n-Sn125.jeff3.3 Threshold 27.722 keV
Cross Section (barns)
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
Incident Energy (eV)
61
50-Sn-125

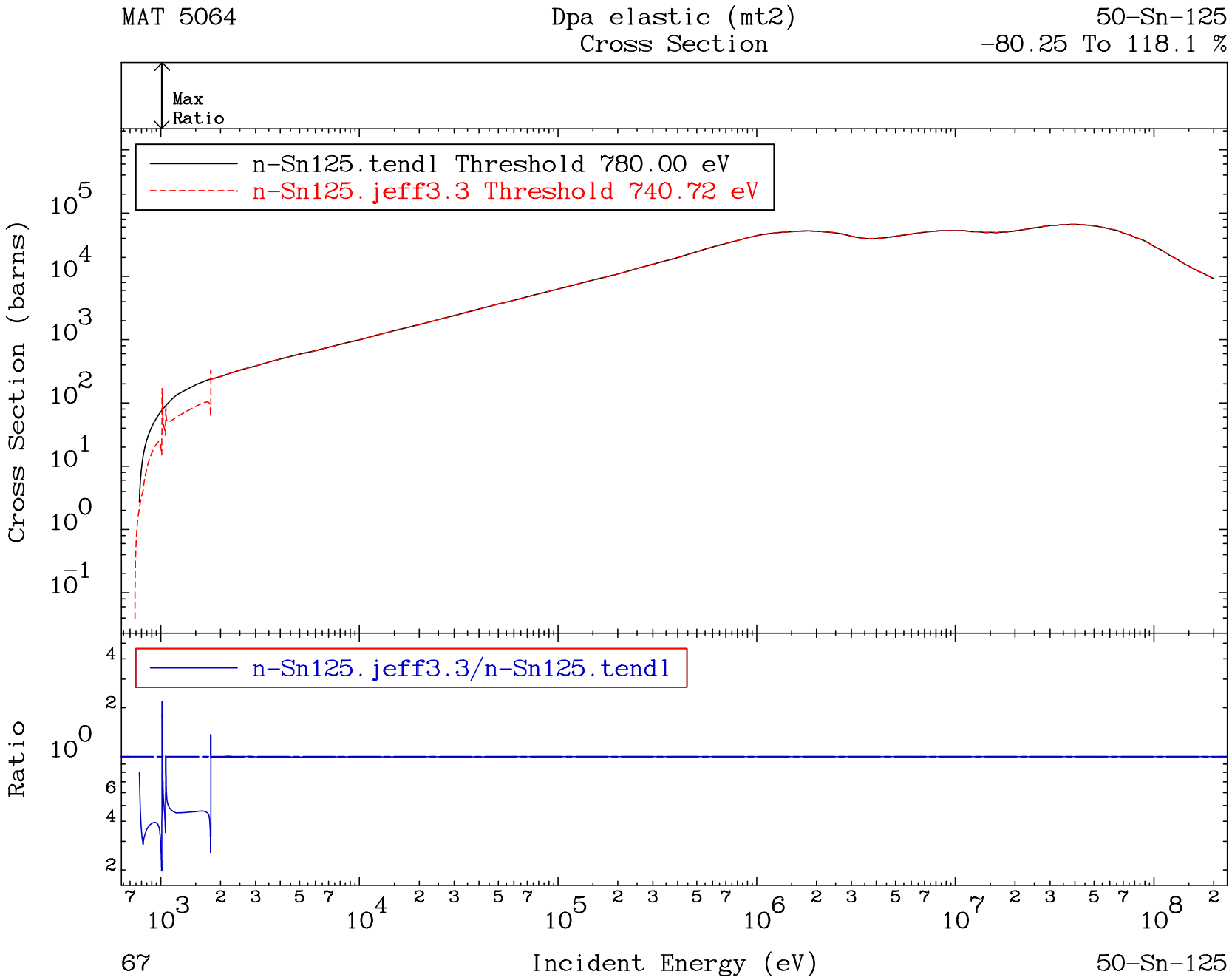

MAT 5064
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
50-Sn-125
-12.69 To 1.131 %
Min Ratio
Max Ratio
n-Sn125.tendl
n-Sn125.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.05
1.00
0.95
0.90
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
62
Incident Energy (eV)
50-Sn-125

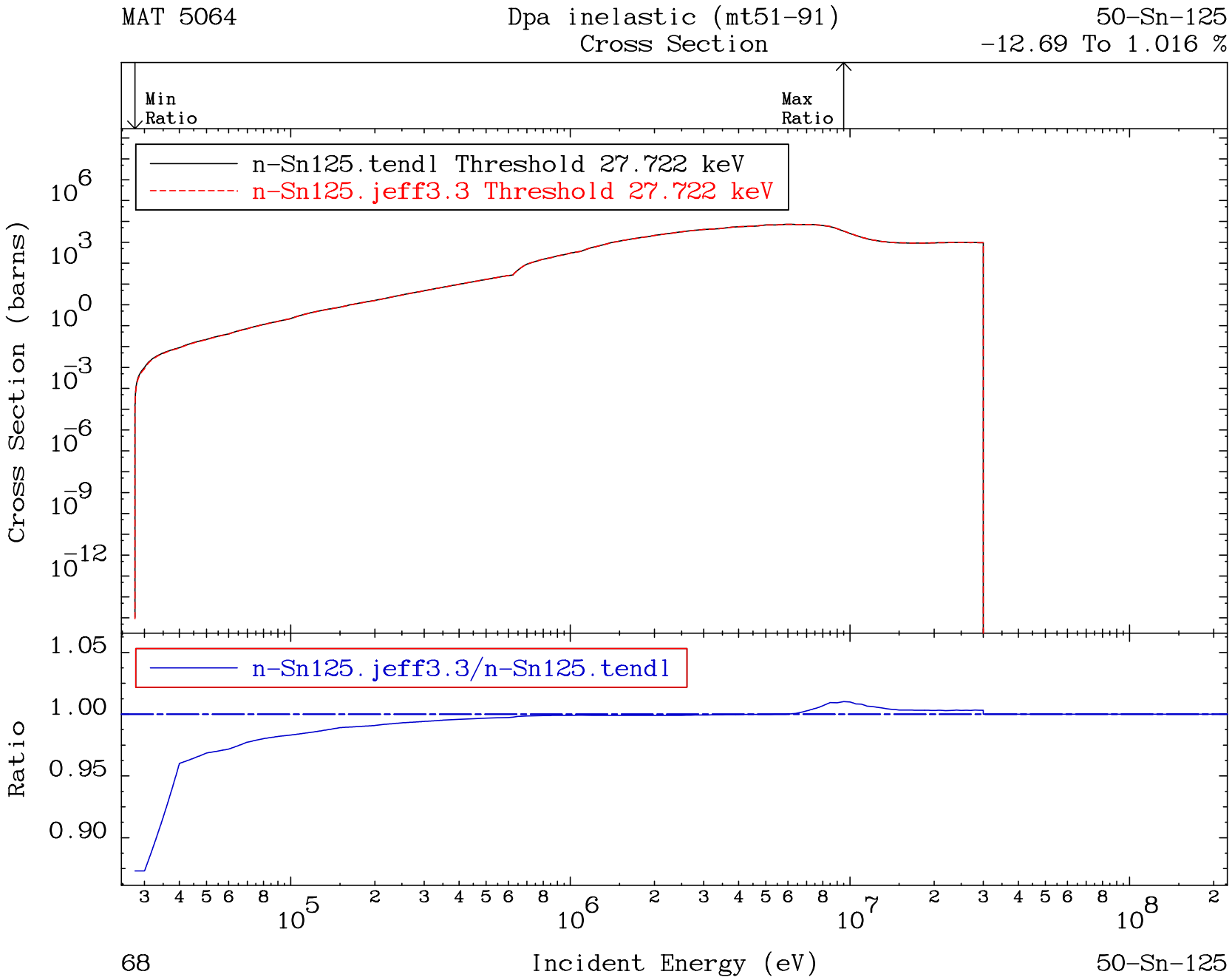

MAT 5064
Kerma capture (mt102)
Cross Section
50-Sn-125
-99.98 To 9999. %
Min Ratio
Max Ratio
n-Sn125.tendl
n-Sn125.jeff3.3
Cross Section (barns)
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
63
Incident Energy (eV)
50-Sn-125

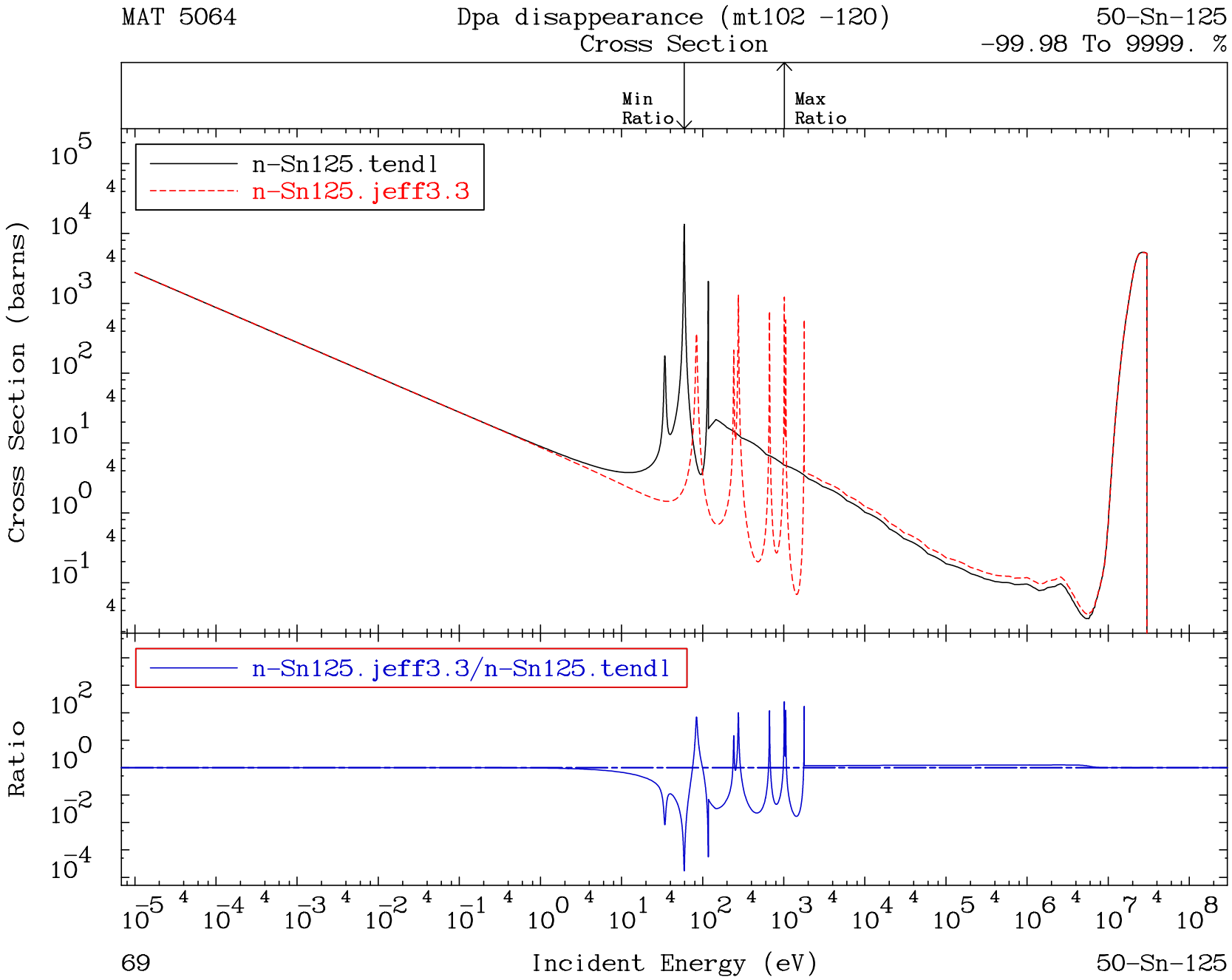

MAT 5064
Total photon (eV-barns)
Cross Section
50-Sn-125
-99.98 To 9999. %
Min
Ratio
Max
Ratio
n-Sn125.tendl
n-Sn125.jeff3.3
Cross Section (barns)
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
64
Incident Energy (eV)
50-Sn-125

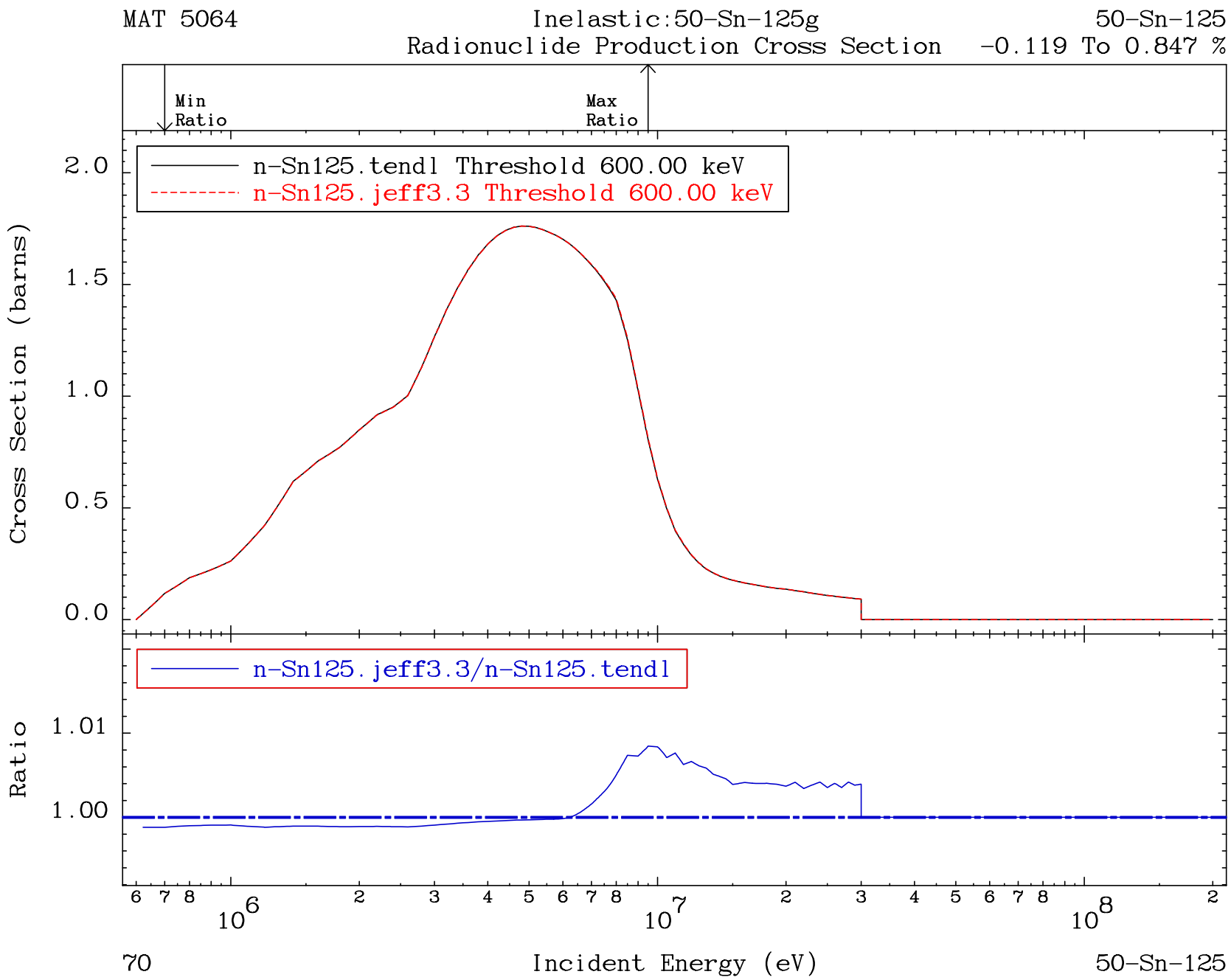

MAT 5064
Total kinematic kerma (high limit)
Cross Section
50-Sn-125
-99.98 To 9999. %
Min Ratio
Max Ratio
n-Sn125.tendl
n-Sn125.jeff3.3
Cross Section (barns)
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
65
Incident Energy (eV)
50-Sn-125

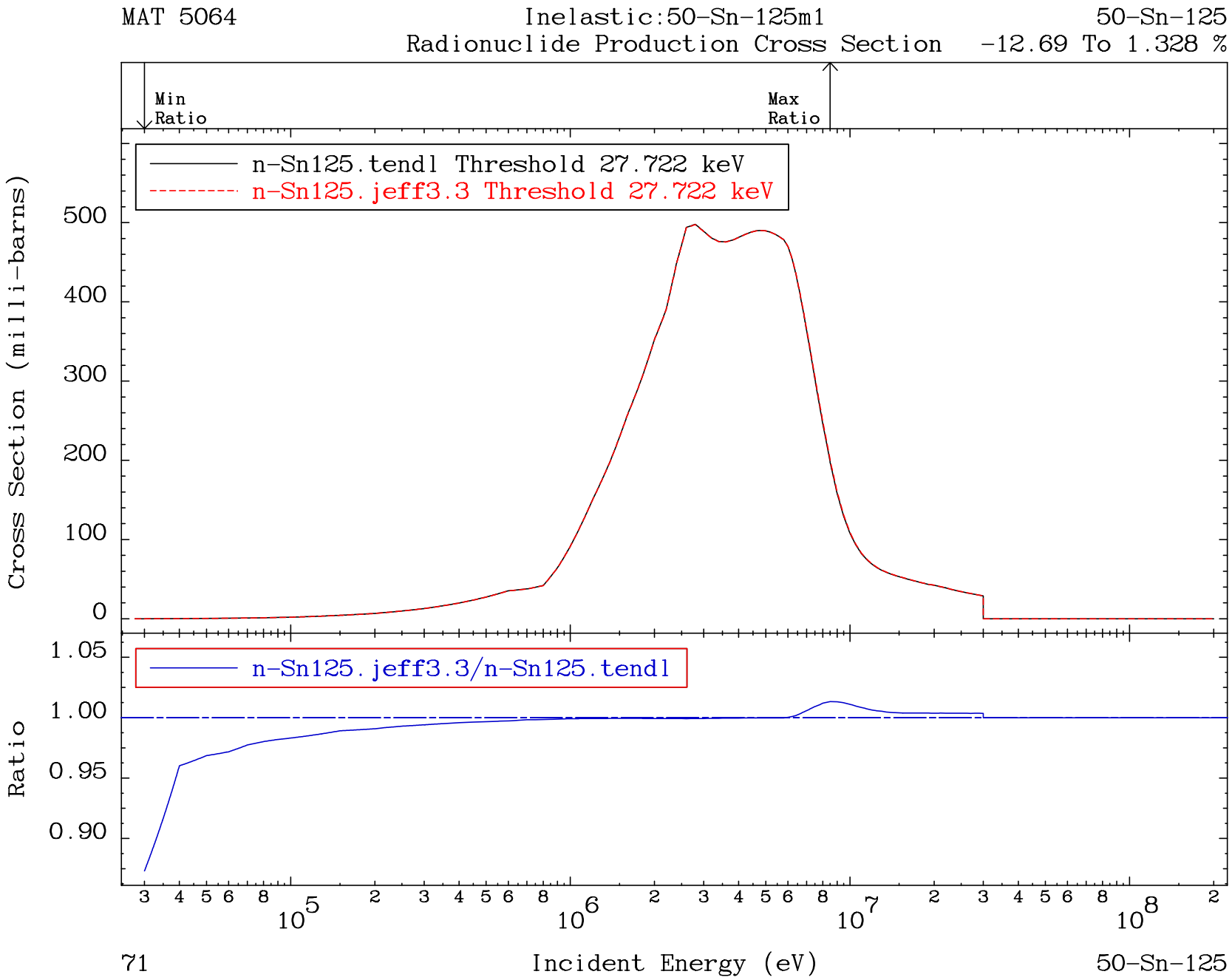

MAT 5064
Dpa total (eV-barns)
Cross Section
50-Sn-125
-99.98 To 9999. %
Min Ratio
Max Ratio
n-Sn125.tendl
n-Sn125.jeff3.3
Cross Section (barns)
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
66
Incident Energy (eV)
50-Sn-125

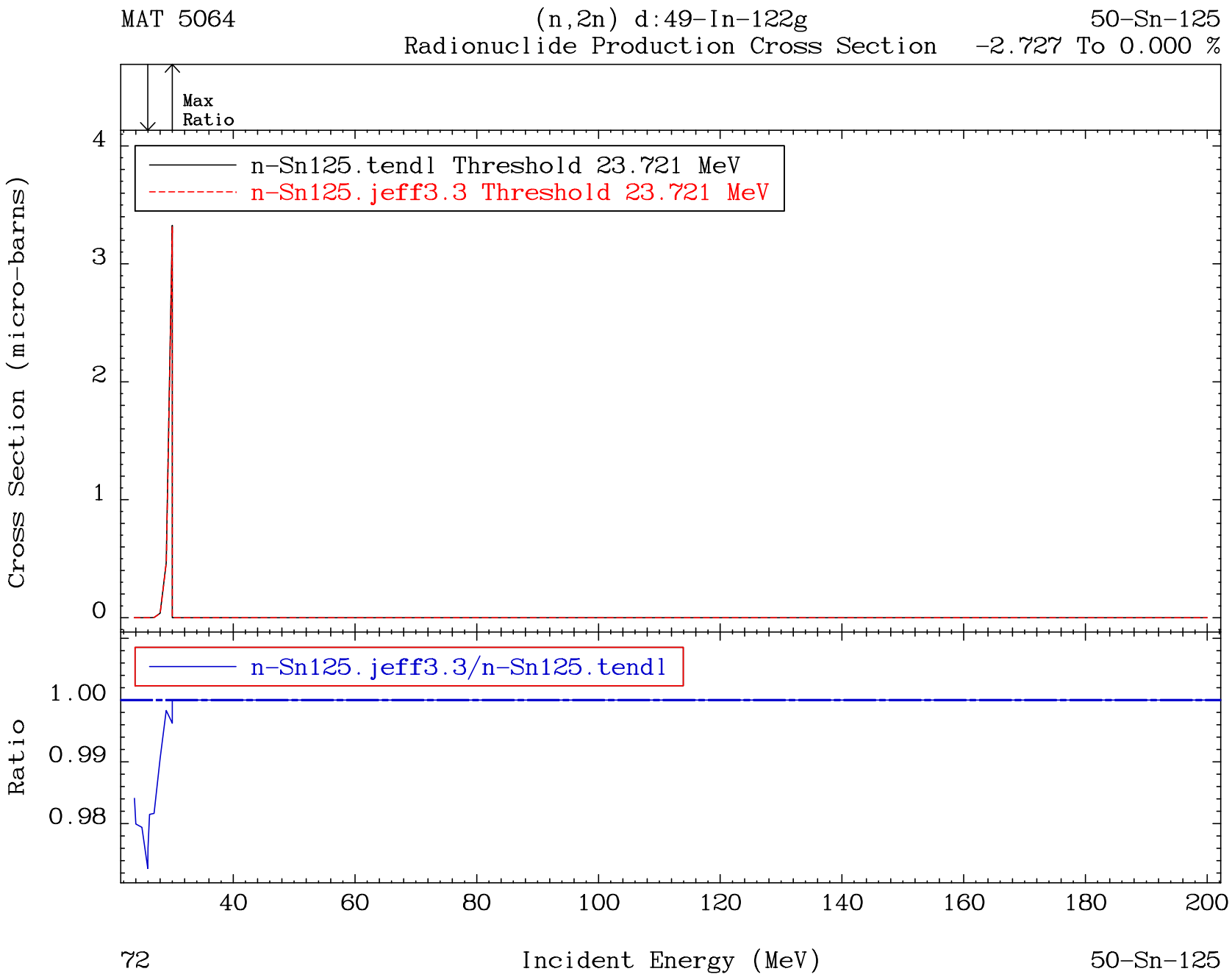

MAT 5064
Dpa elastic (mt2)
Cross Section
50-Sn-125
-80.25 To 118.1 %
Max
Ratio
n-Sn125.tendl Threshold 780.00 eV
n-Sn125.jeff3.3 Threshold 740.72 eV
Cross Section (barns)
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
Incident Energy (eV)
67
50-Sn-125

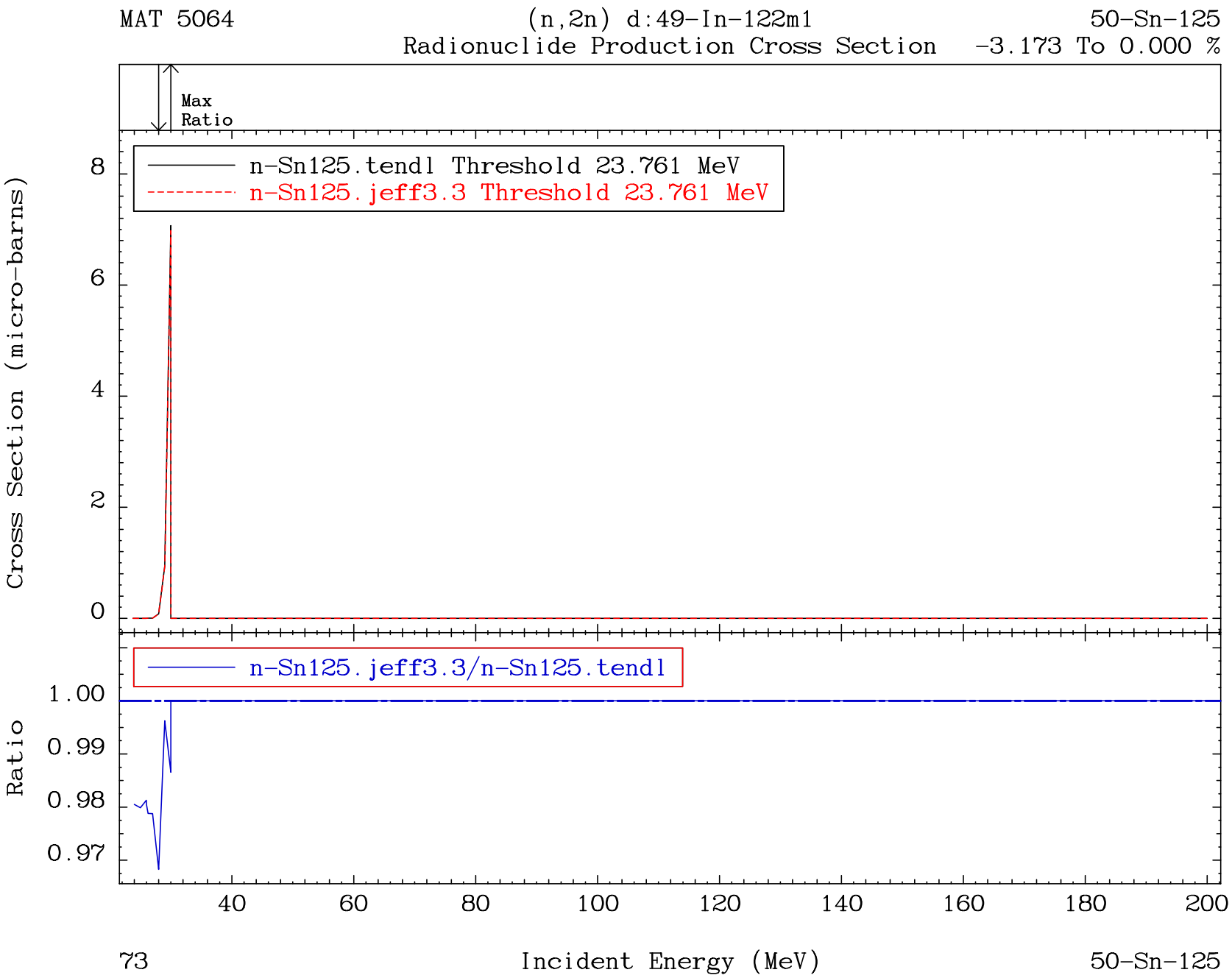

MAT 5064
Dpa inelastic (mt51-91)
Cross Section
50-Sn-125
-12.69 To 1.016 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 27.722 keV
n-Sn125.jeff3.3 Threshold 27.722 keV
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
10^-9
10^-12
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.05
1.00
0.95
0.90
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
68
Incident Energy (eV)
50-Sn-125

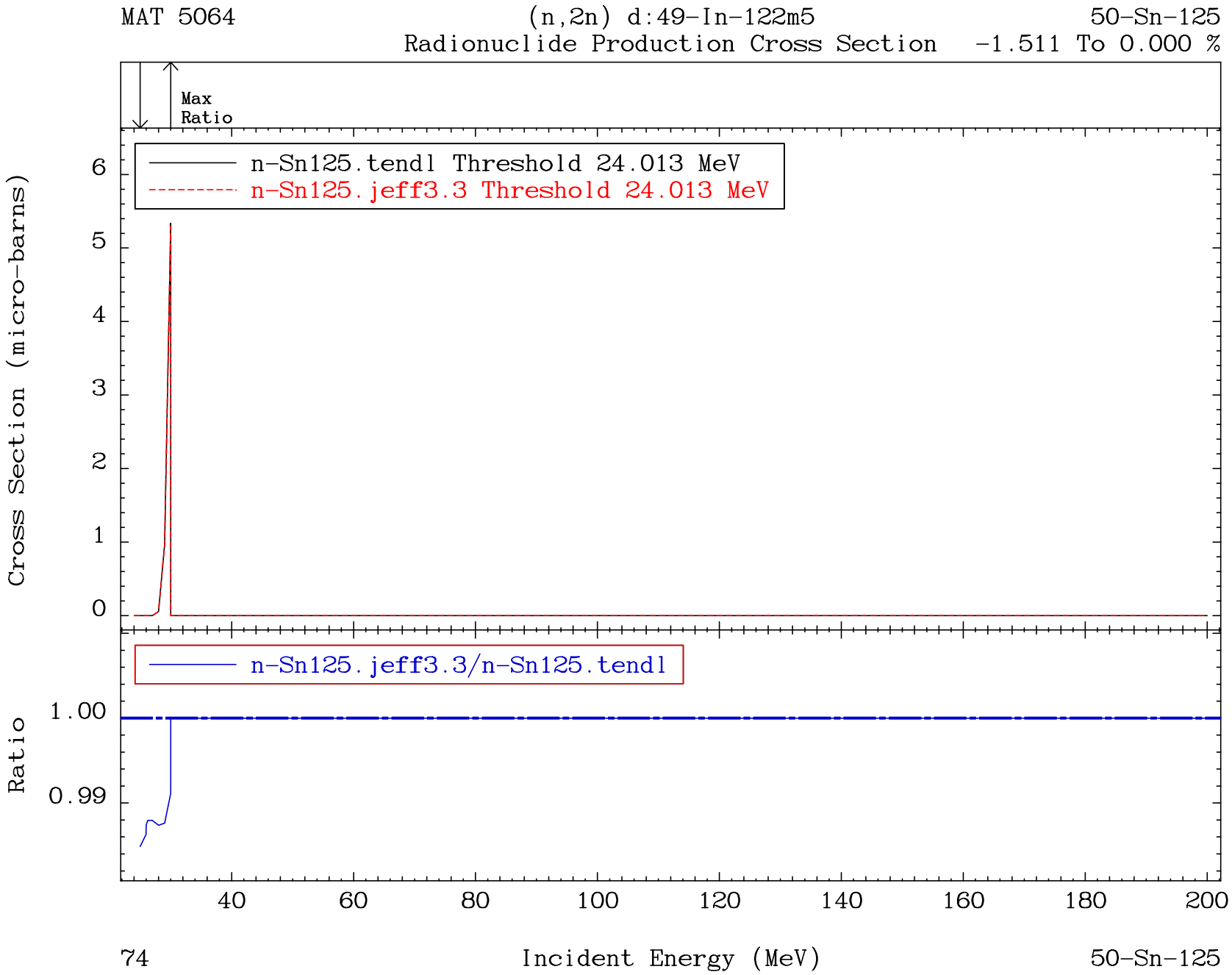

MAT 5064
Dpa disappearance (mt102 -120)
Cross Section
50-Sn-125
-99.98 To 9999. %
Min Ratio
Max Ratio
n-Sn125.tendl
n-Sn125.jeff3.3
Cross Section (barns)
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
69
Incident Energy (eV)
50-Sn-125

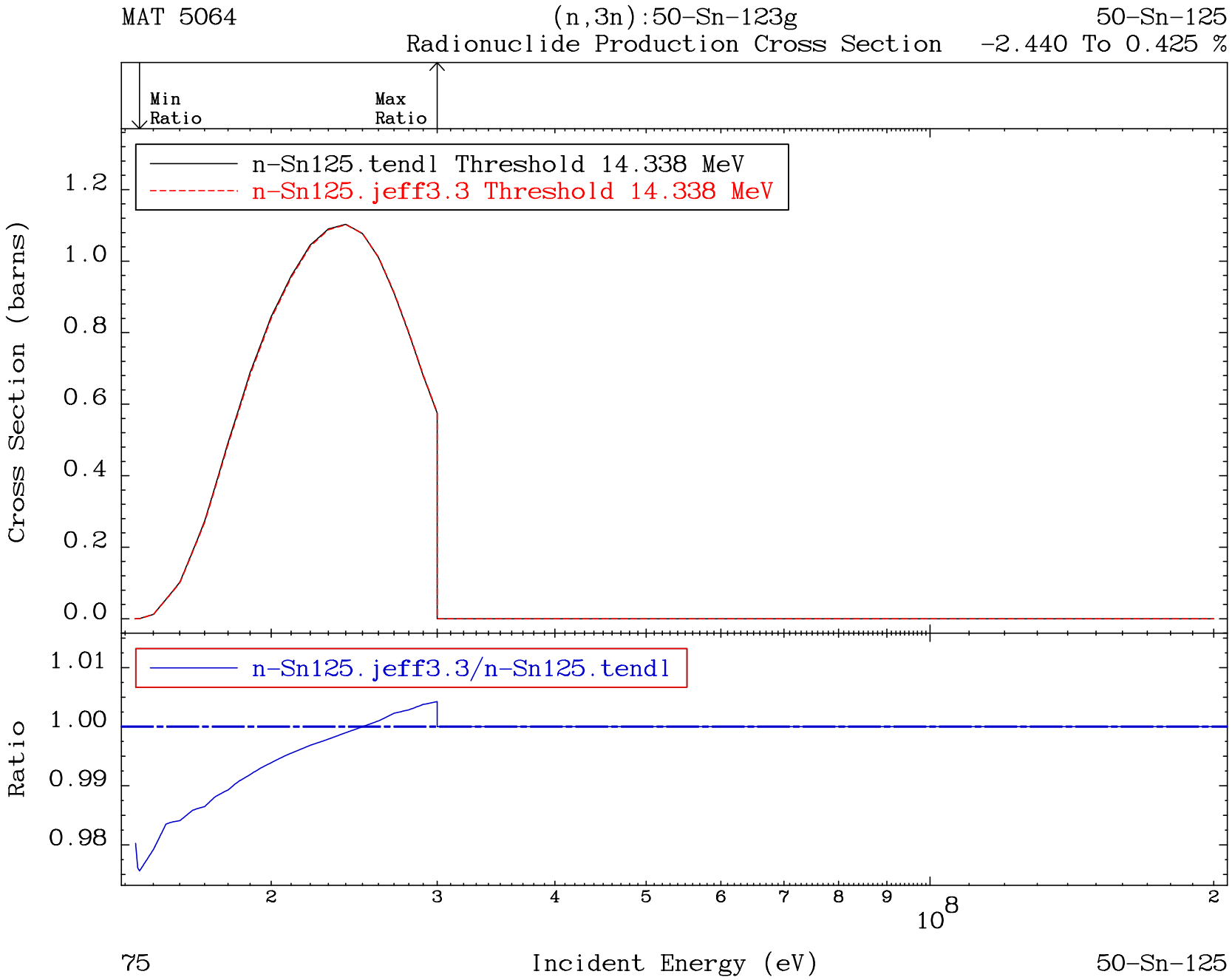

MAT 5064
Inelastic:50-Sn-125g
50-Sn-125
Radionuclide Production Cross Section
-0.119 To 0.847 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 600.00 keV
n-Sn125.jeff3.3 Threshold 600.00 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
70
Incident Energy (eV)
50-Sn-125

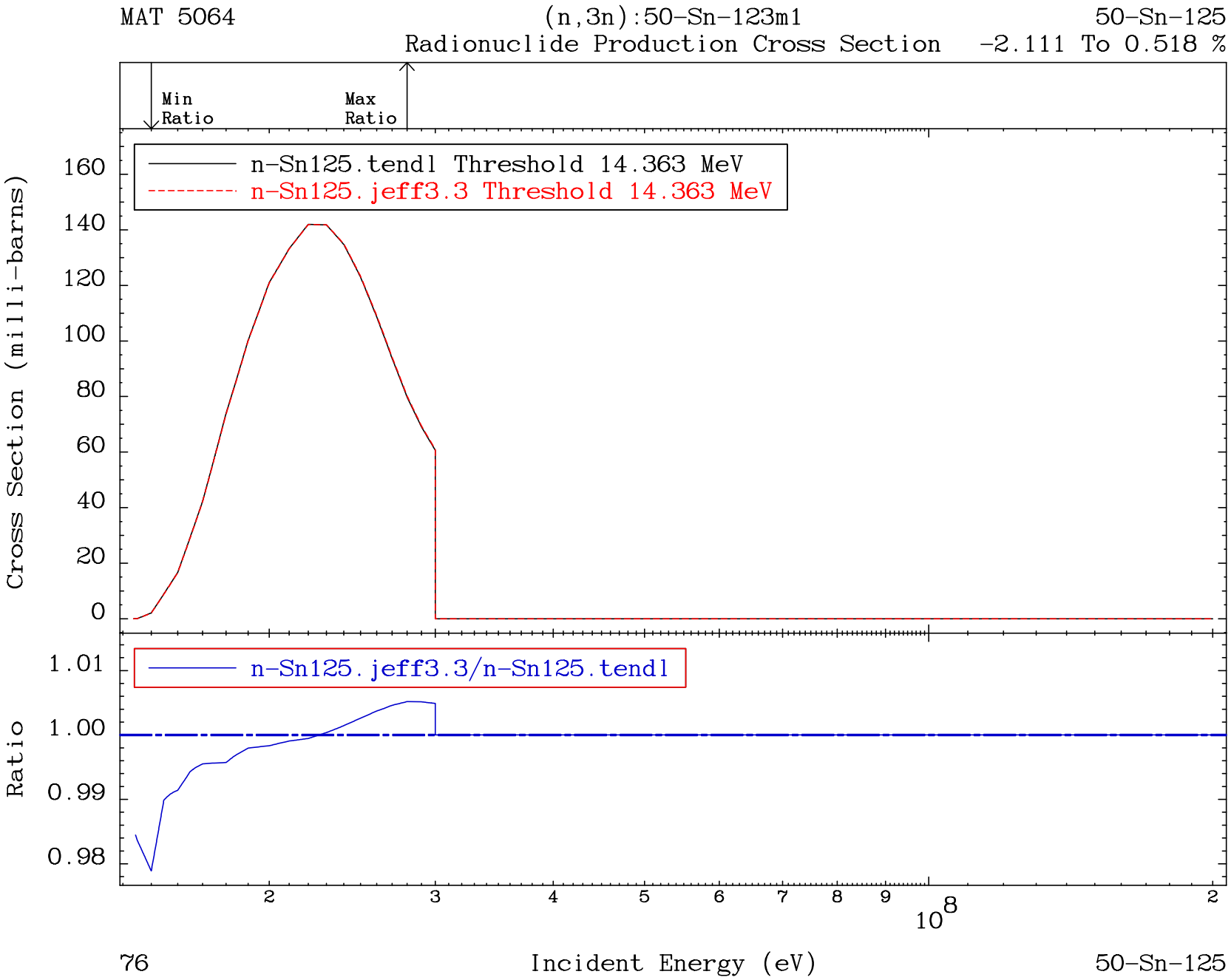

MAT 5064
Inelastic:50-Sn-125m1
50-Sn-125
Radionuclide Production Cross Section -12.69 To 1.328 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 27.722 keV
n-Sn125.jeff3.3 Threshold 27.722 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.05
1.00
0.95
0.90
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
71
Incident Energy (eV)
50-Sn-125

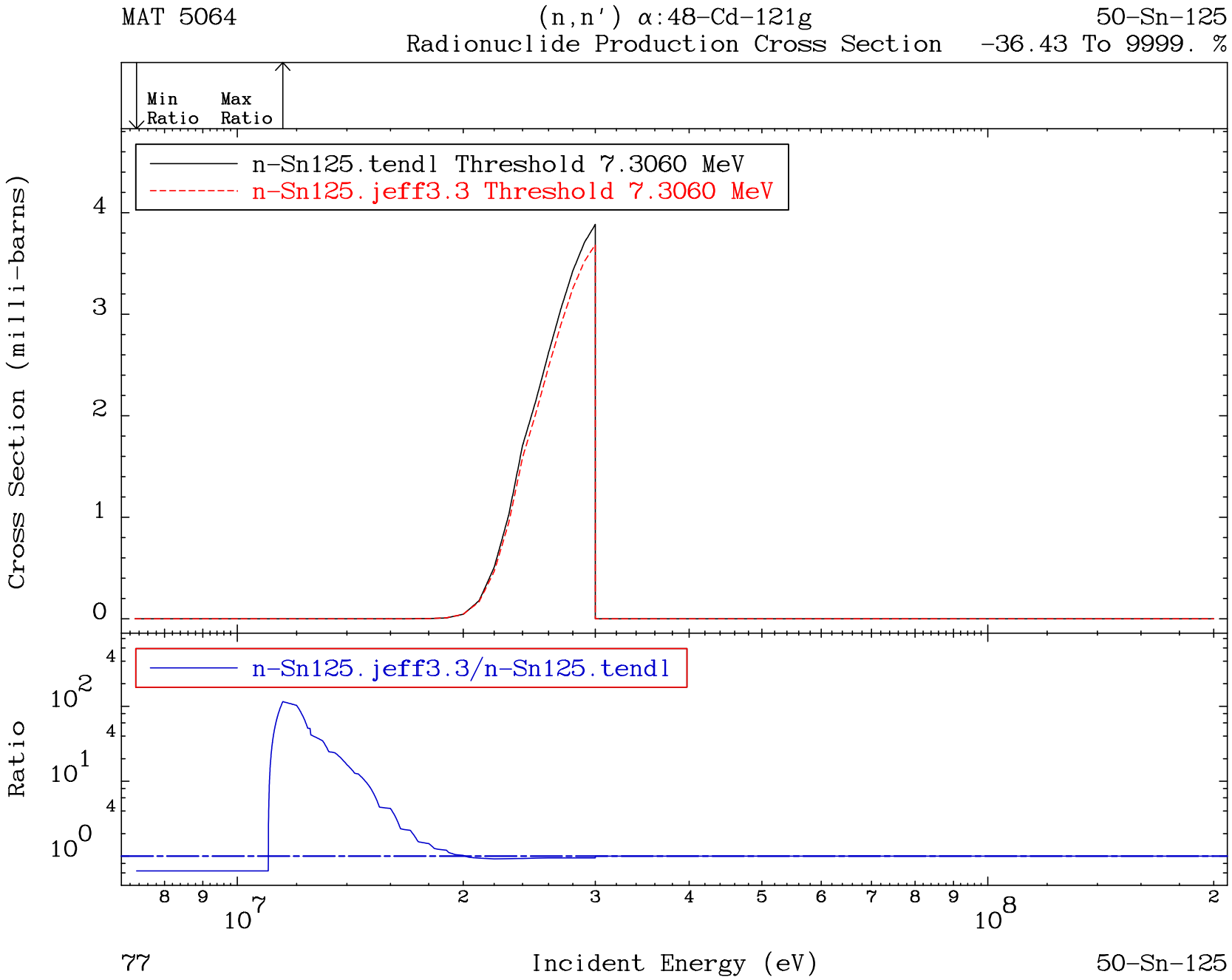

MAT 5064
(n,2n) d:49-In-122g
50-Sn-125
Radionuclide Production Cross Section
-2.727 To 0.000 %
Max
Ratio
n-Sn125.tendl Threshold 23.721 MeV
n-Sn125.jeff3.3 Threshold 23.721 MeV
Cross Section (micro-barns)
0
1
2
3
4
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.00
0.99
0.98
40
60
80
100
120
140
160
180
200
72
Incident Energy (MeV)
50-Sn-125

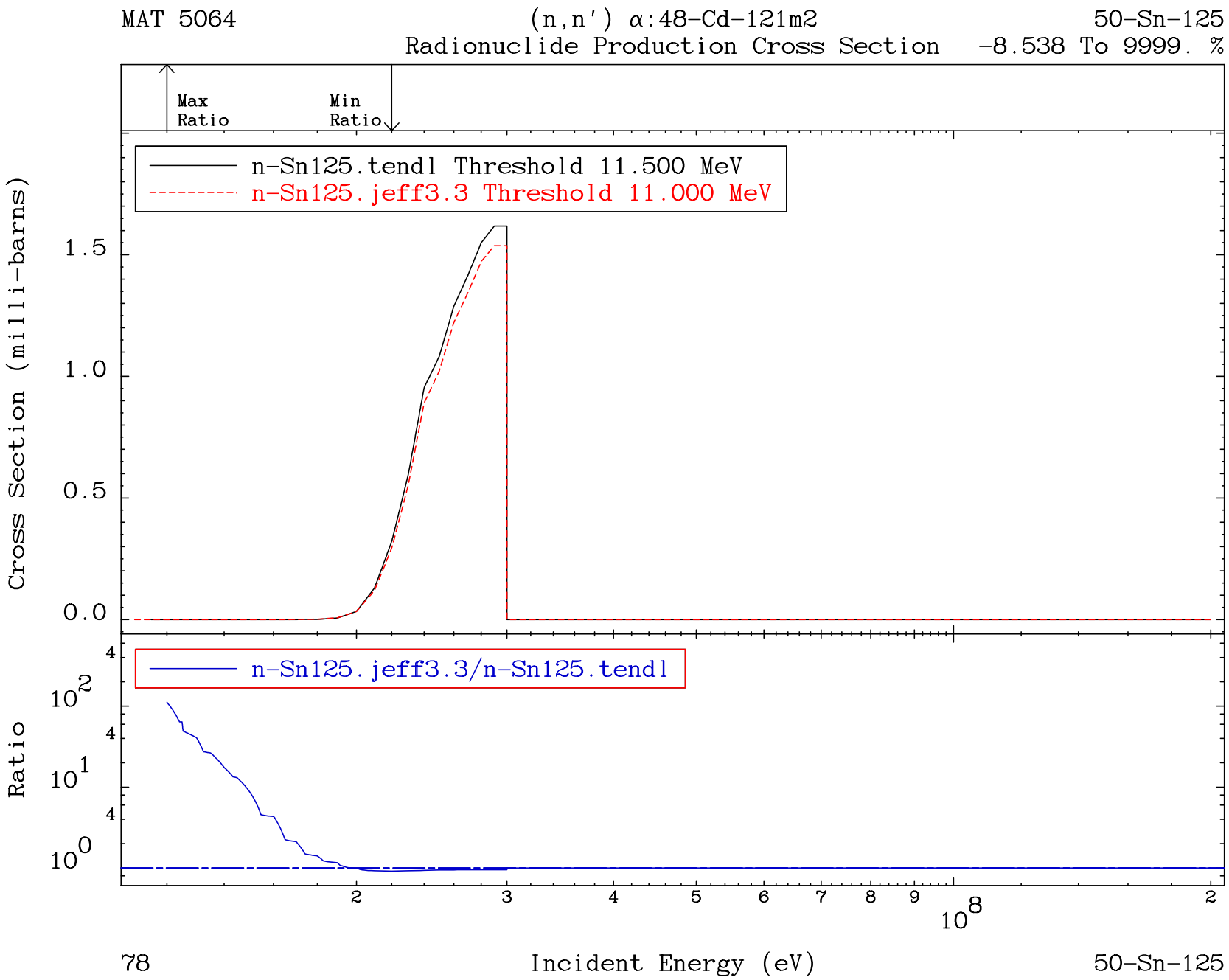

MAT 5064
(n,2n) d:49-In-122m1
50-Sn-125
Radionuclide Production Cross Section
-3.173 To 0.000 %
Max
Ratio
n-Sn125.tendl Threshold 23.761 MeV
n-Sn125.jeff3.3 Threshold 23.761 MeV
Cross Section (micro-barns)
0
2
4
6
8
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
0.97
0.98
0.99
1.00
40
60
80
100
120
140
160
180
200
73
Incident Energy (MeV)
50-Sn-125

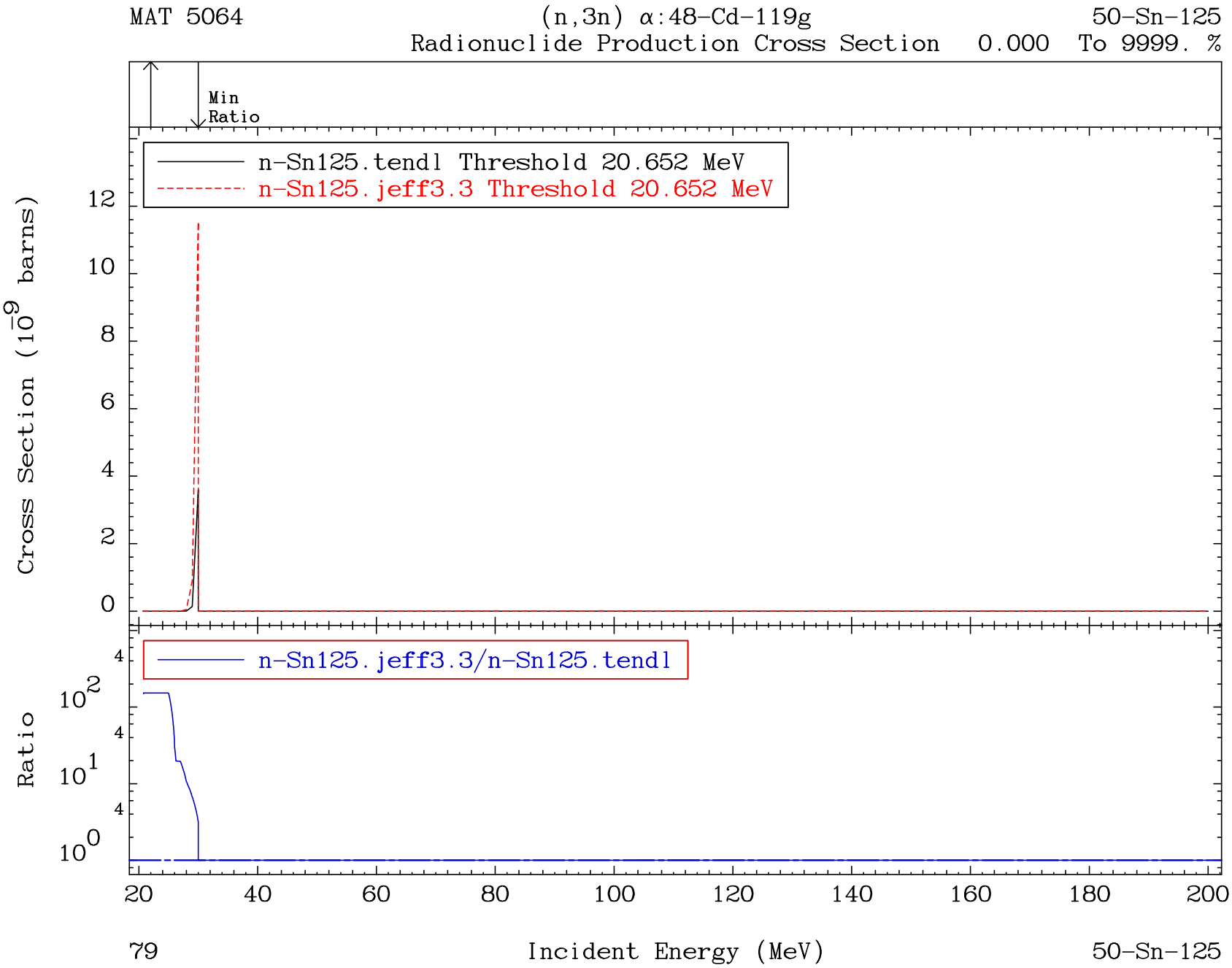

MAT 5064
(n,2n) d:49-In-122m5
50-Sn-125
Radionuclide Production Cross Section -1.511 To 0.000 %
Max
Ratio
n-Sn125.tendl Threshold 24.013 MeV
n-Sn125.jeff3.3 Threshold 24.013 MeV
Cross Section (micro-barns)
0
1
2
3
4
5
6
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.00
0.99
40
60
80
100
120
140
160
180
200
74
Incident Energy (MeV)
50-Sn-125

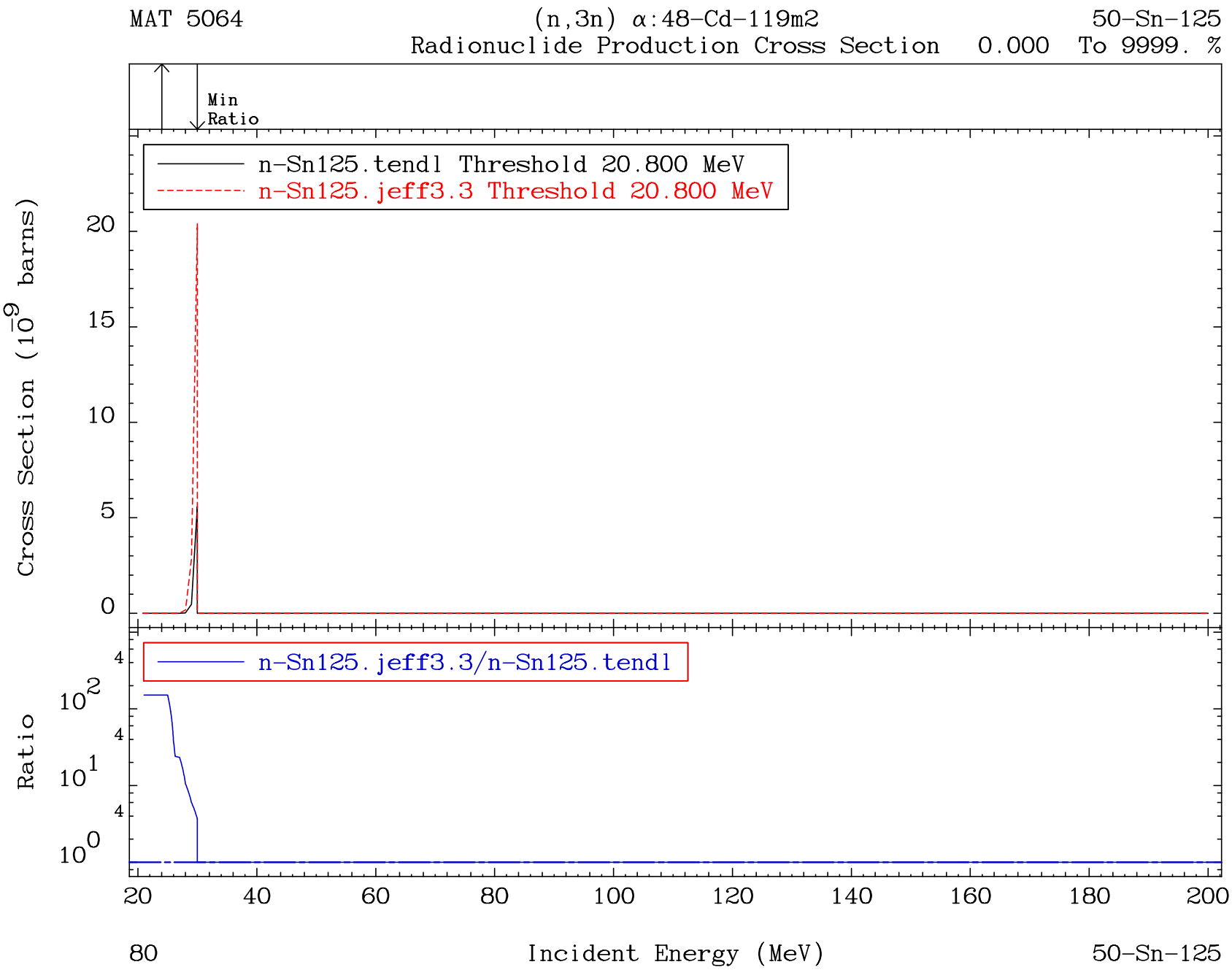

MAT 5064
(n,3n):50-Sn-123g
50-Sn-125
Radionuclide Production Cross Section
-2.440 To 0.425 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 14.338 MeV
n-Sn125.jeff3.3 Threshold 14.338 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
75
Incident Energy (eV)
50-Sn-125

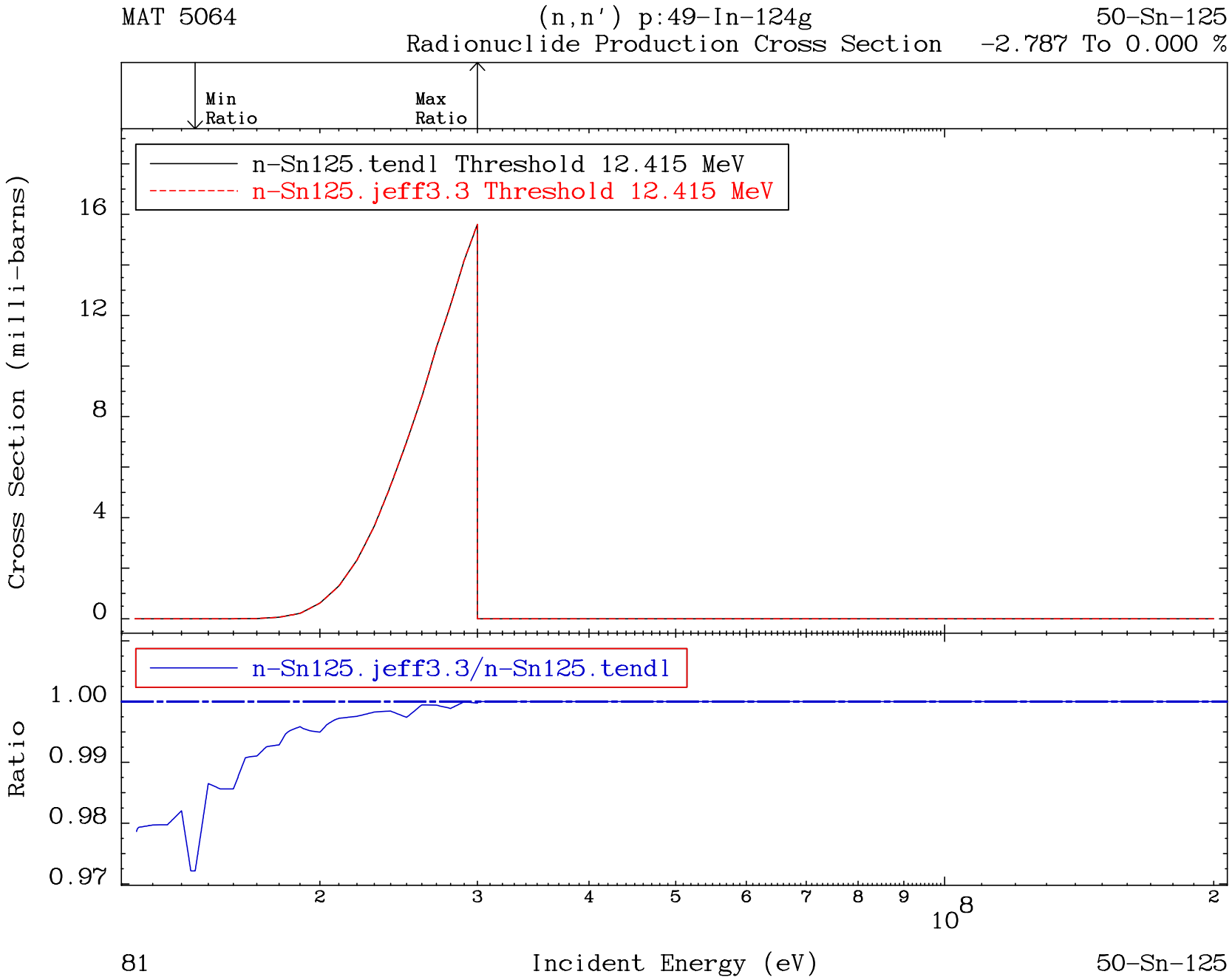

MAT 5064
(n,3n):50-Sn-123m1
50-Sn-125
Radionuclide Production Cross Section
-2.111 To 0.518 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 14.363 MeV
n-Sn125.jeff3.3 Threshold 14.363 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
76
Incident Energy (eV)
50-Sn-125

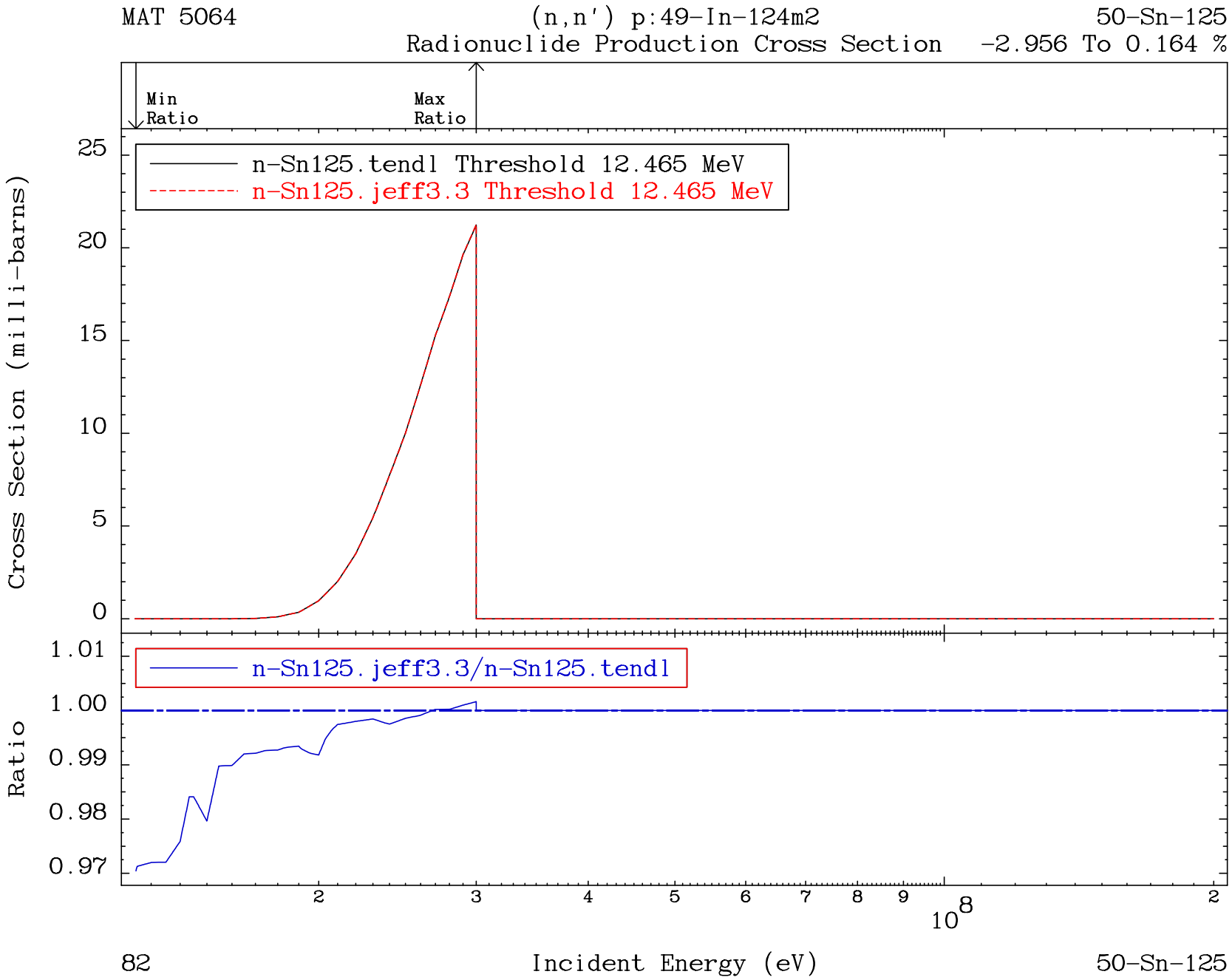

MAT 5064
(n,n') α:48-Cd-121g
50-Sn-125
Radionuclide Production Cross Section -36.43 To 9999. %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 7.3060 MeV
n-Sn125.jeff3.3 Threshold 7.3060 MeV
Cross Section (milli-barns)
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
Incident Energy (eV)
77
50-Sn-125

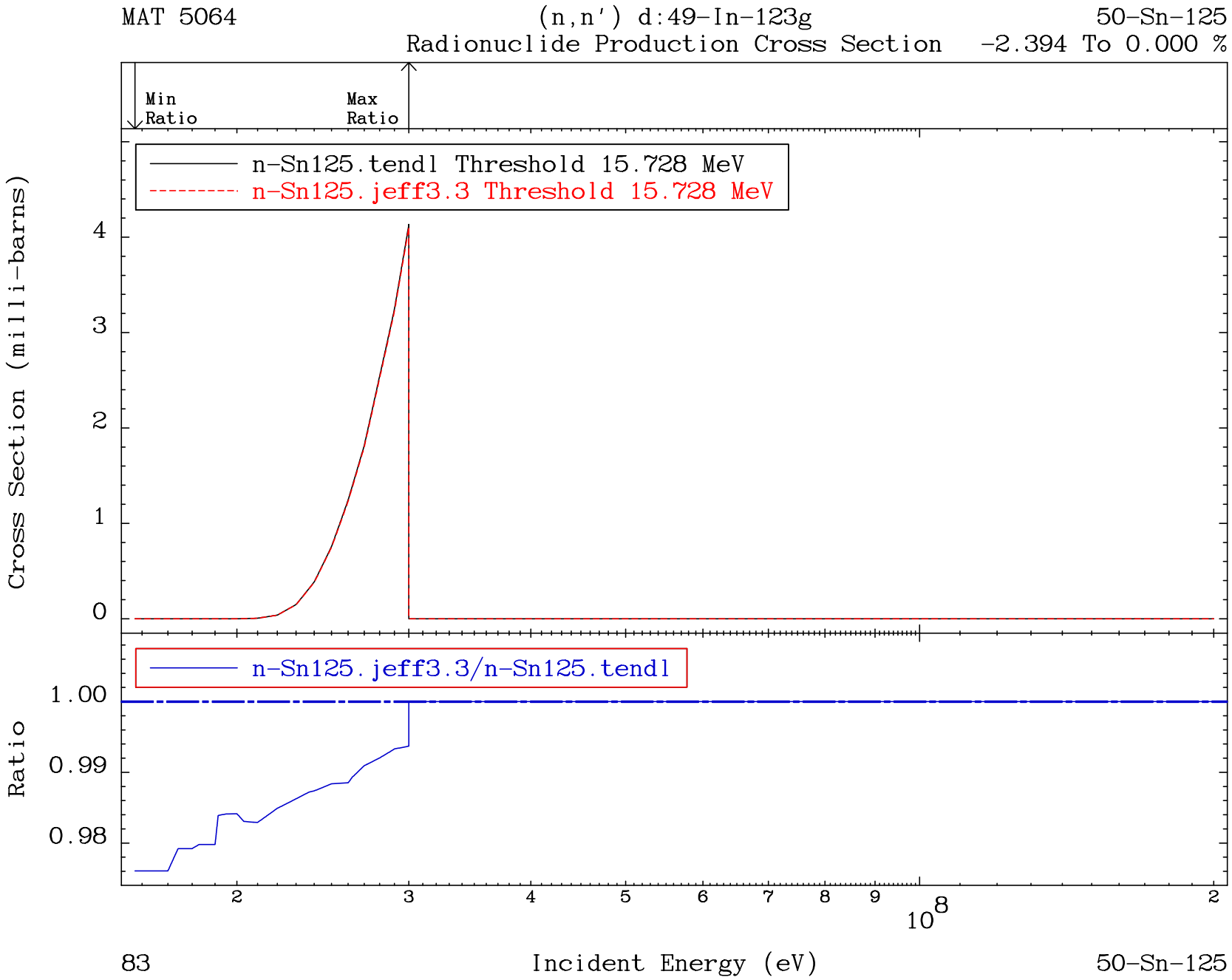

MAT 5064
(n,n') α:48-Cd-121m2
50-Sn-125
Radionuclide Production Cross Section -8.538 To 9999. %
Max Ratio
Min Ratio
n-Sn125.tendl Threshold 11.500 MeV
n-Sn125.jeff3.3 Threshold 11.000 MeV
Cross Section (milli-barns)
1.5
1.0
0.5
0.0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
78
Incident Energy (eV)
50-Sn-125

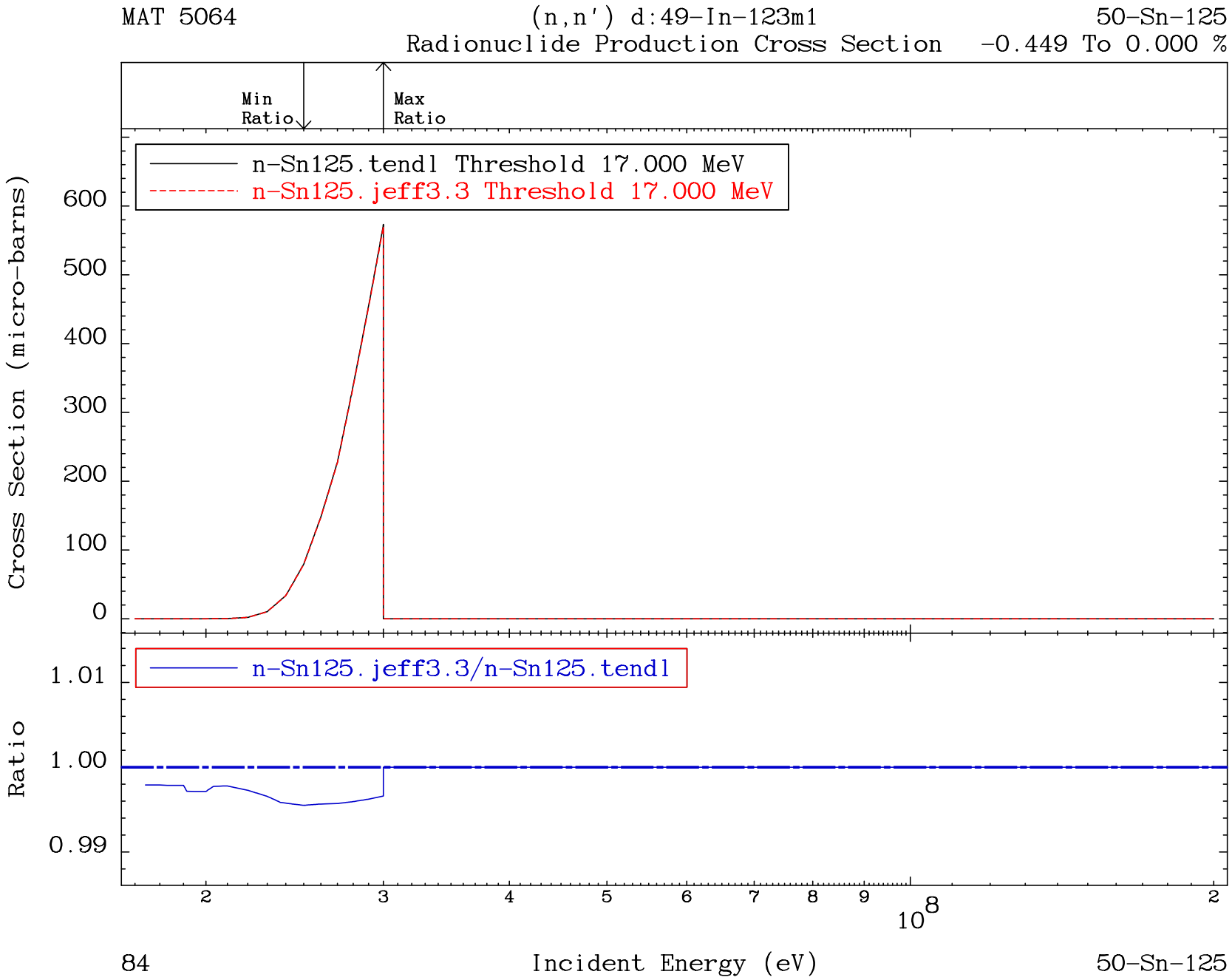

MAT 5064
(n,3n) α:48-Cd-119g
50-Sn-125
Radionuclide Production Cross Section 0.000 To 9999. %
Min Ratio
n-Sn125.tendl Threshold 20.652 MeV
n-Sn125.jeff3.3 Threshold 20.652 MeV
Cross Section (10^{-9} barns)
0
2
4
6
8
10
12
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
10^{0}
10^{1}
10^{2}
20
40
60
80
100
120
140
160
180
200
79
Incident Energy (MeV)
50-Sn-125

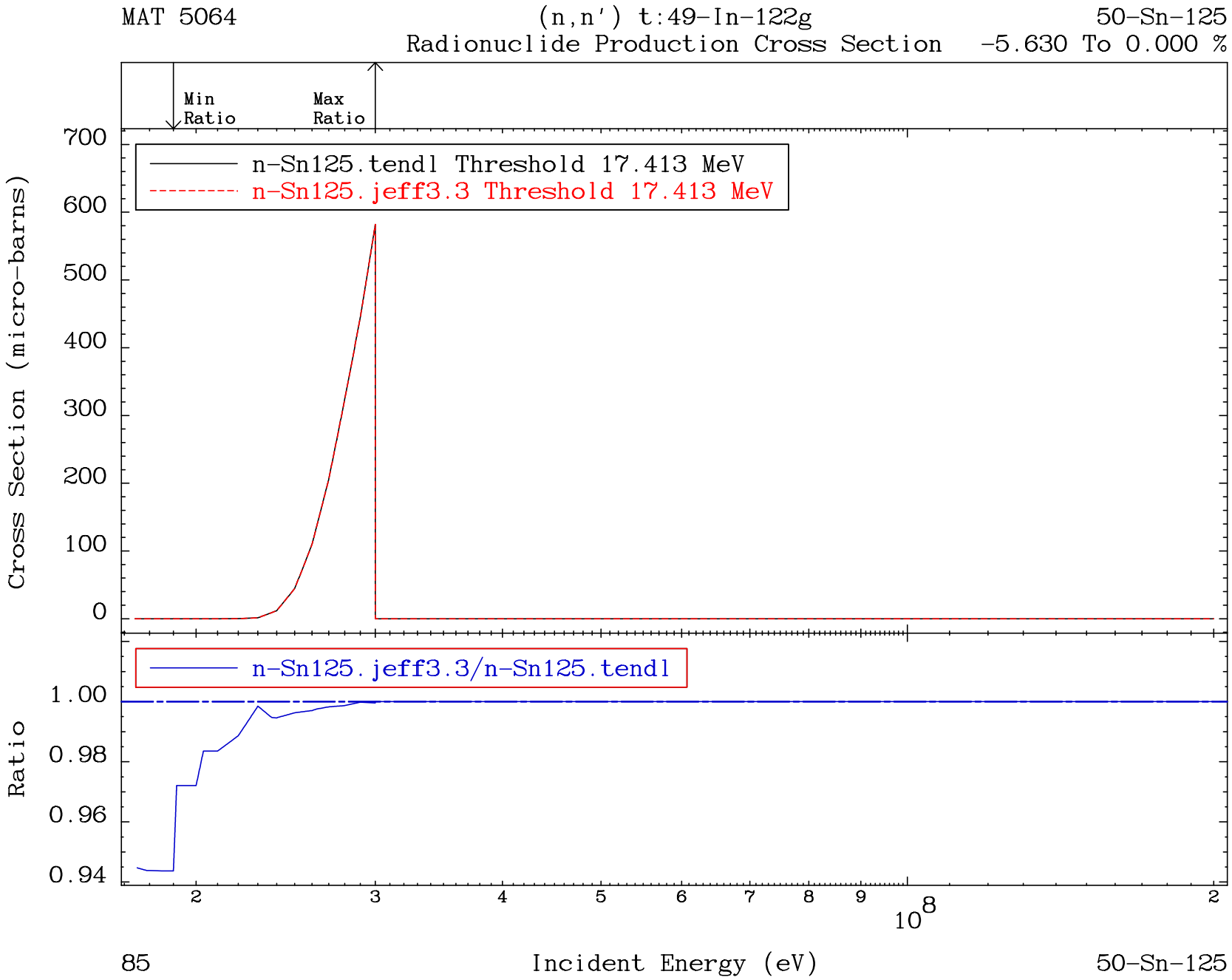

MAT 5064
(n,3n) α:48-Cd-119m2
50-Sn-125
Radionuclide Production Cross Section 0.000 To 9999. %
Min Ratio
n-Sn125.tendl Threshold 20.800 MeV
n-Sn125.jeff3.3 Threshold 20.800 MeV
Cross Section (10^{-9} barns)
20
15
10
5
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
10^{2}
10^{1}
10^{0}
4
20
40
60
80
100
120
140
160
180
200
80
Incident Energy (MeV)
50-Sn-125

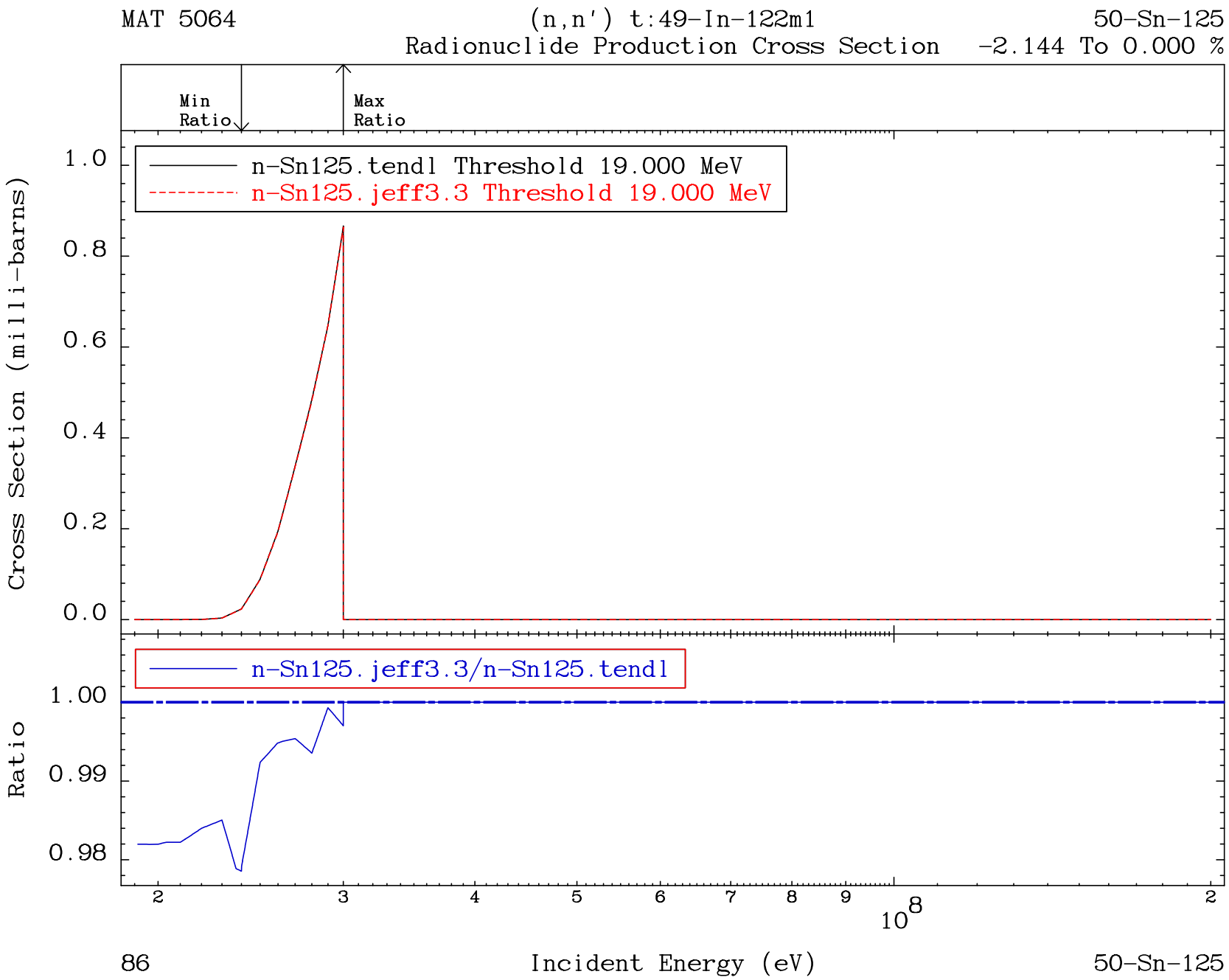

MAT 5064
(n,n') p:49-In-124g
50-Sn-125
Radionuclide Production Cross Section
-2.787 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 12.415 MeV
n-Sn125.jeff3.3 Threshold 12.415 MeV
Cross Section (milli-barns)
16
12
8
4
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.00
0.99
0.98
0.97
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
50-Sn-125

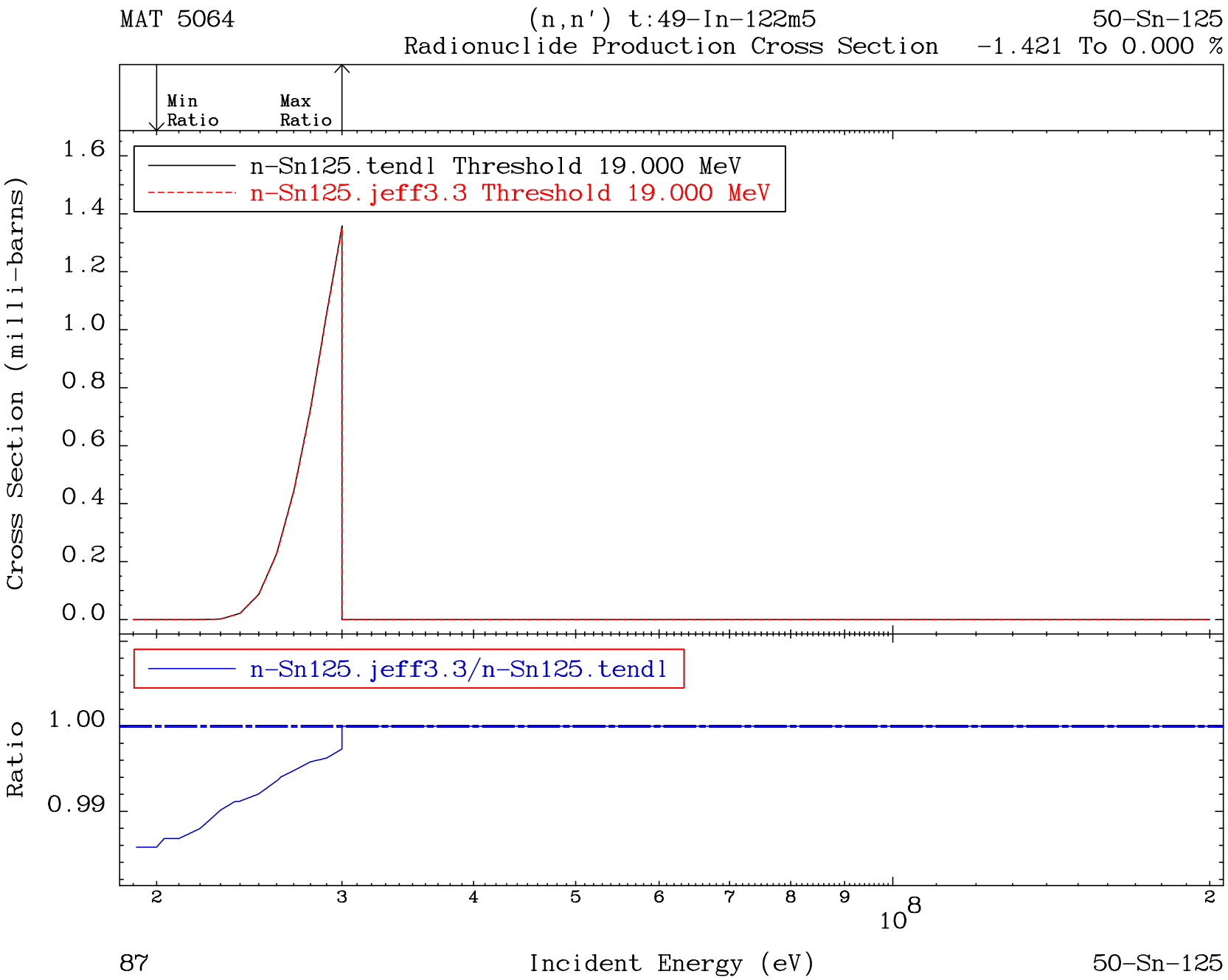

MAT 5064
(n,n') p:49-In-124m2
50-Sn-125
Radionuclide Production Cross Section
-2.956 To 0.164 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 12.465 MeV
n-Sn125.jeff3.3 Threshold 12.465 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
0.98
0.97
2
3
4
5
6
7
8
9
10^8
2
82
Incident Energy (eV)
50-Sn-125

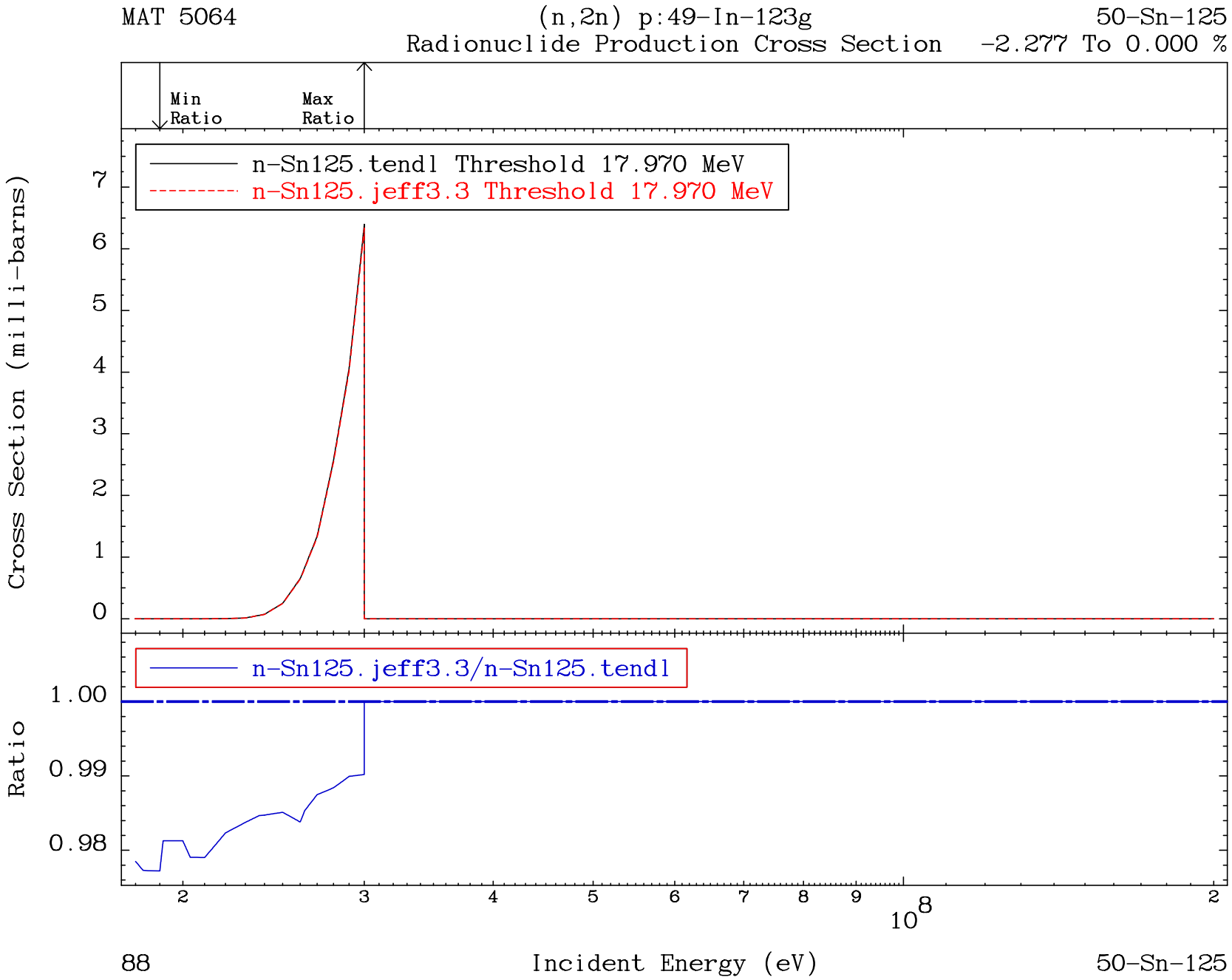

MAT 5064
(n,n') d:49-In-123g
50-Sn-125
Radionuclide Production Cross Section
-2.394 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 15.728 MeV
n-Sn125.jeff3.3 Threshold 15.728 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
50-Sn-125

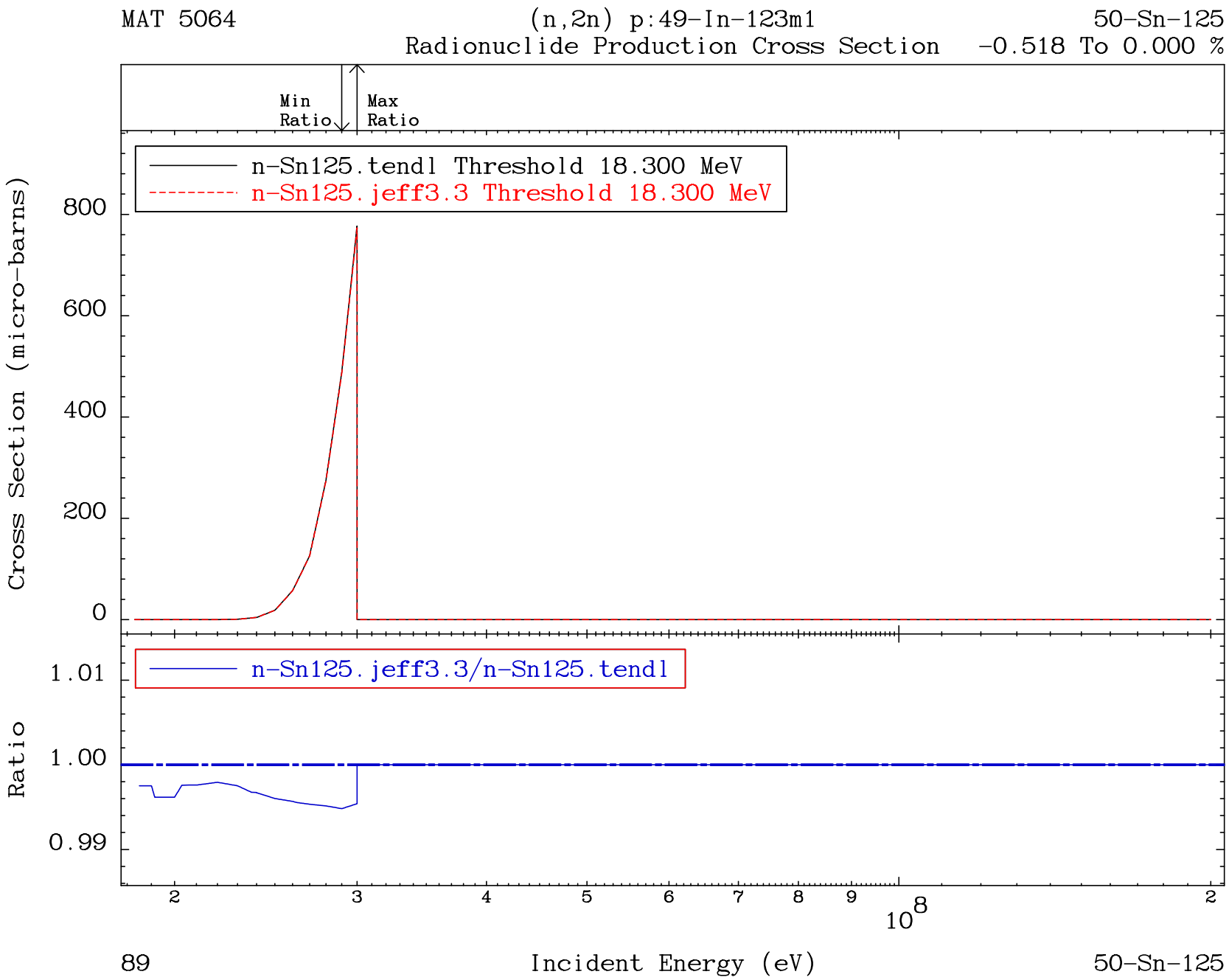

MAT 5064
(n,n') d:49-In-123m1
50-Sn-125
Radionuclide Production Cross Section
-0.449 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 17.000 MeV
n-Sn125.jeff3.3 Threshold 17.000 MeV
Cross Section (micro-barns)
600
500
400
300
200
100
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
50-Sn-125

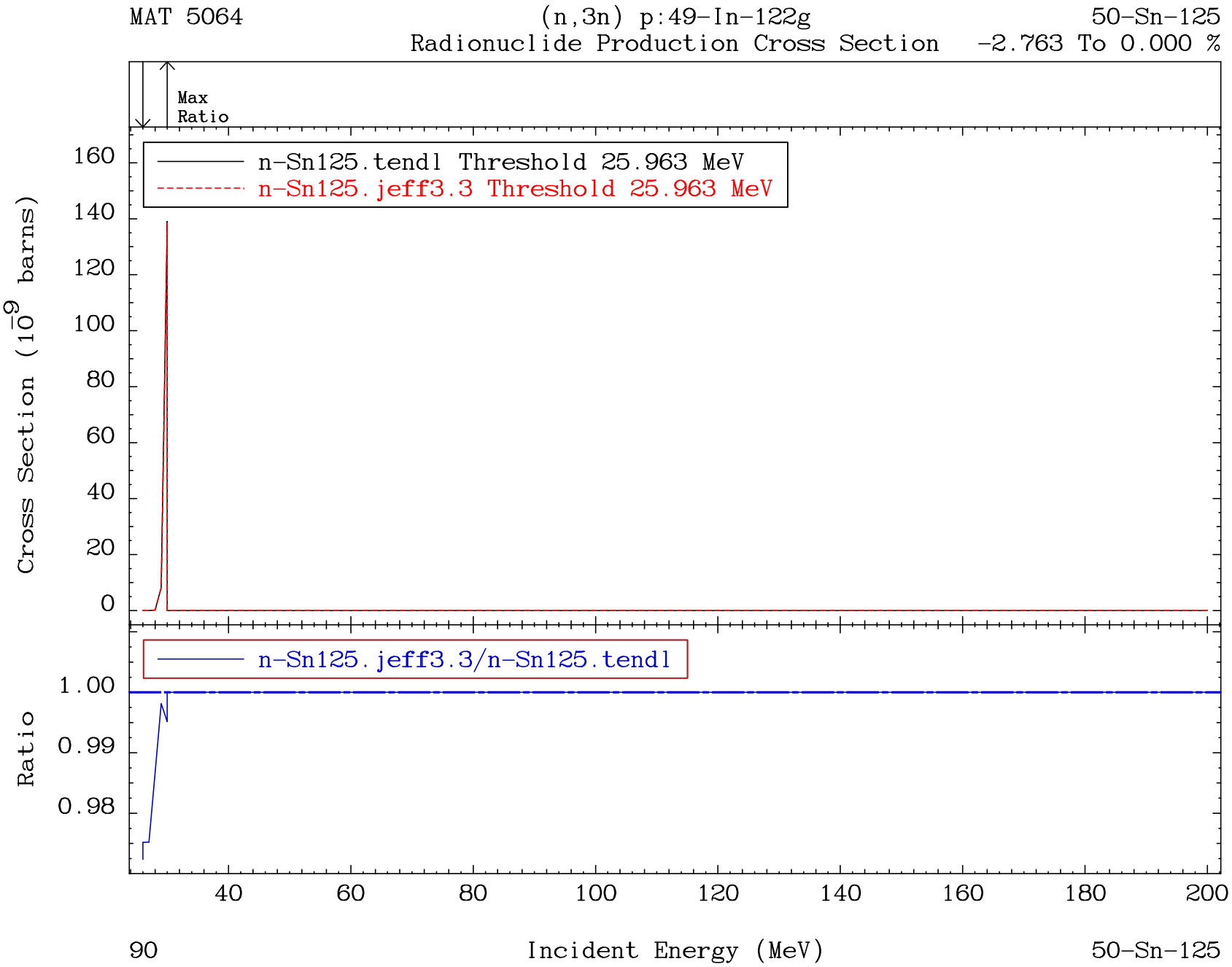

MAT 5064
(n,n') t:49-In-122g
50-Sn-125
Radionuclide Production Cross Section
-5.630 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 17.413 MeV
n-Sn125.jeff3.3 Threshold 17.413 MeV
Cross Section (micro-barns)
700
600
500
400
300
200
100
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.00
0.98
0.96
0.94
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
50-Sn-125

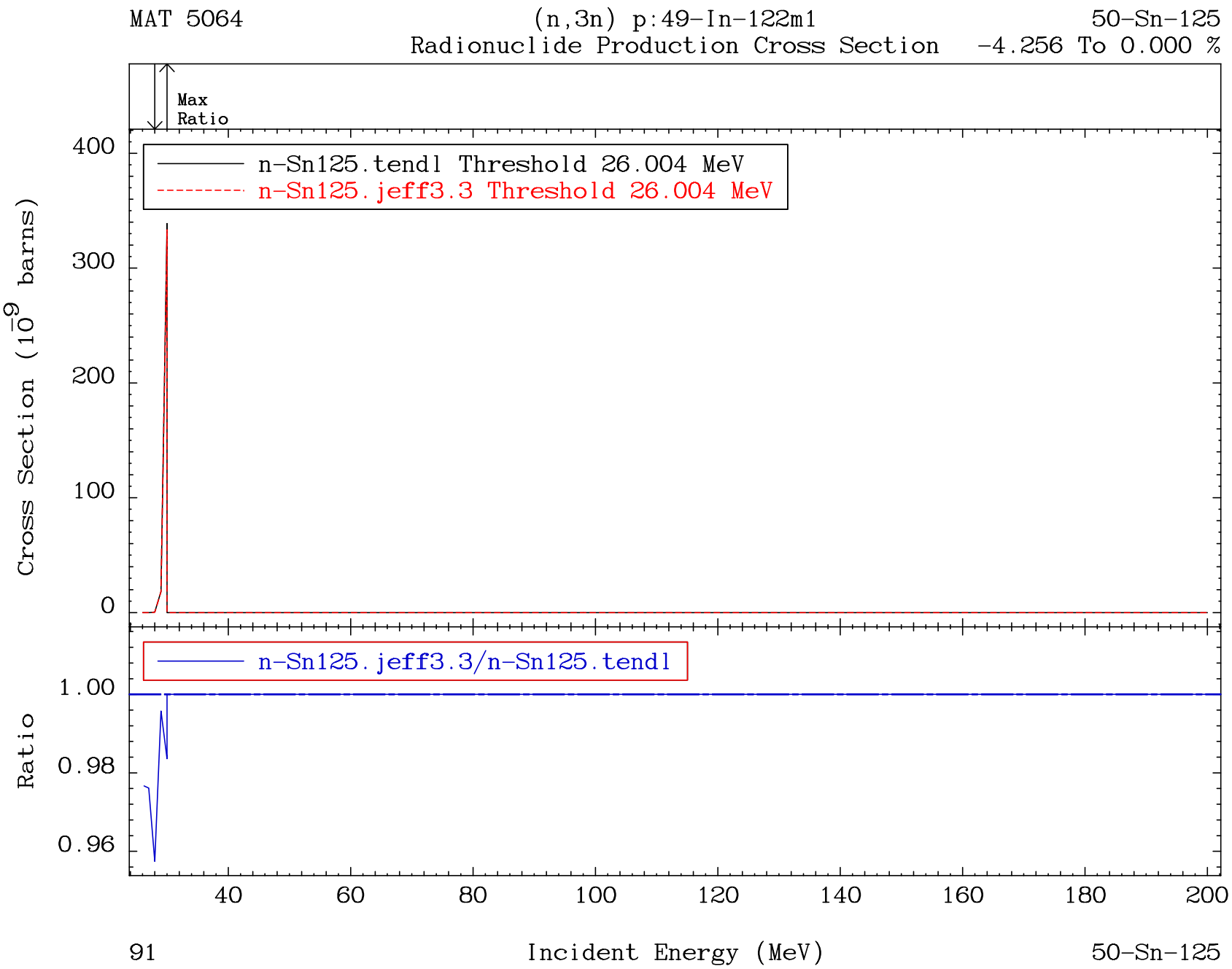

MAT 5064
(n,n') t:49-In-122m1
50-Sn-125
Radionuclide Production Cross Section
-2.144 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 19.000 MeV
n-Sn125.jeff3.3 Threshold 19.000 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
86
Incident Energy (eV)
50-Sn-125

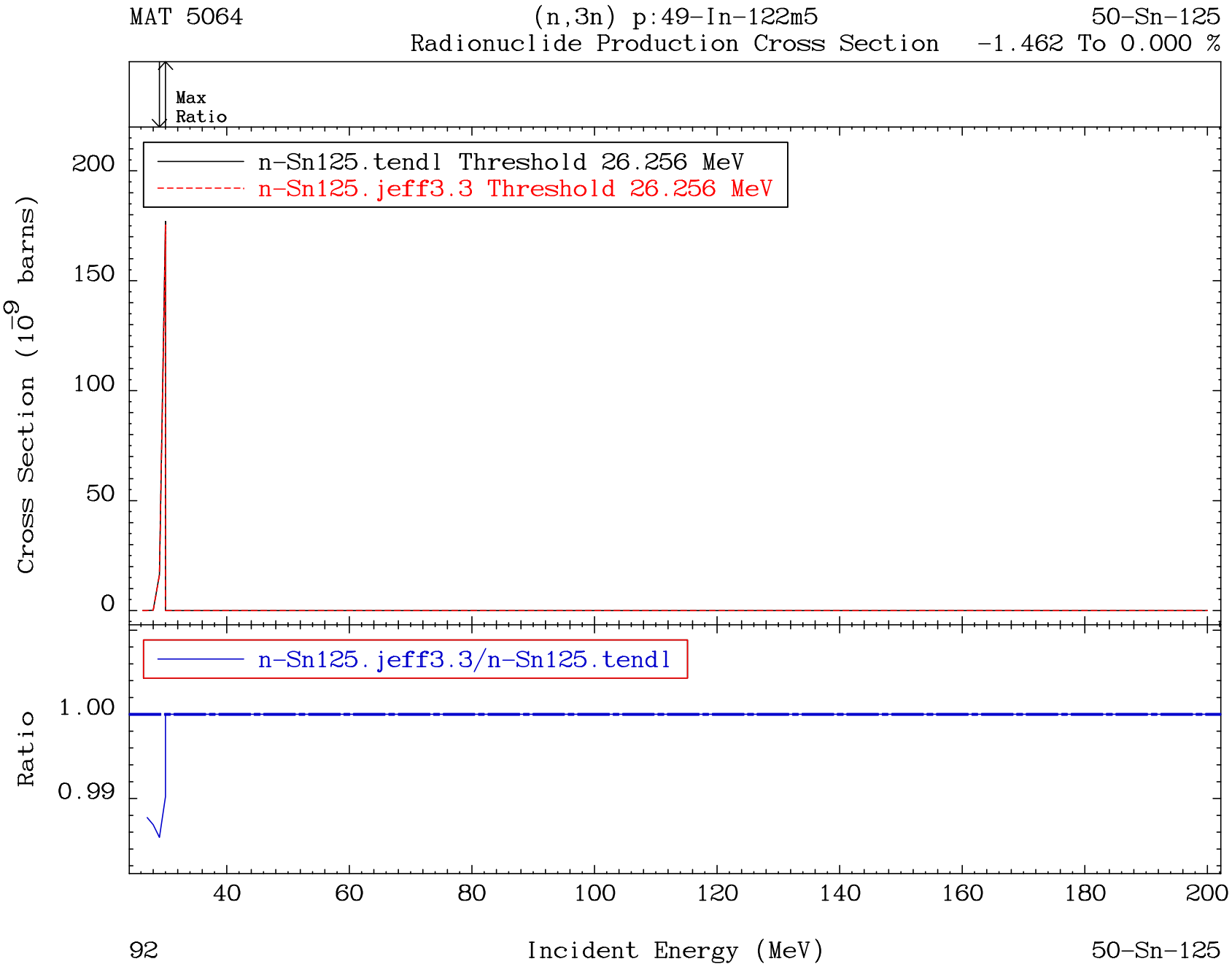

MAT 5064
(n,n') t:49-In-122m5
50-Sn-125
Radionuclide Production Cross Section -1.421 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 19.000 MeV
n-Sn125.jeff3.3 Threshold 19.000 MeV
Cross Section (milli-barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
87
Incident Energy (eV)
50-Sn-125

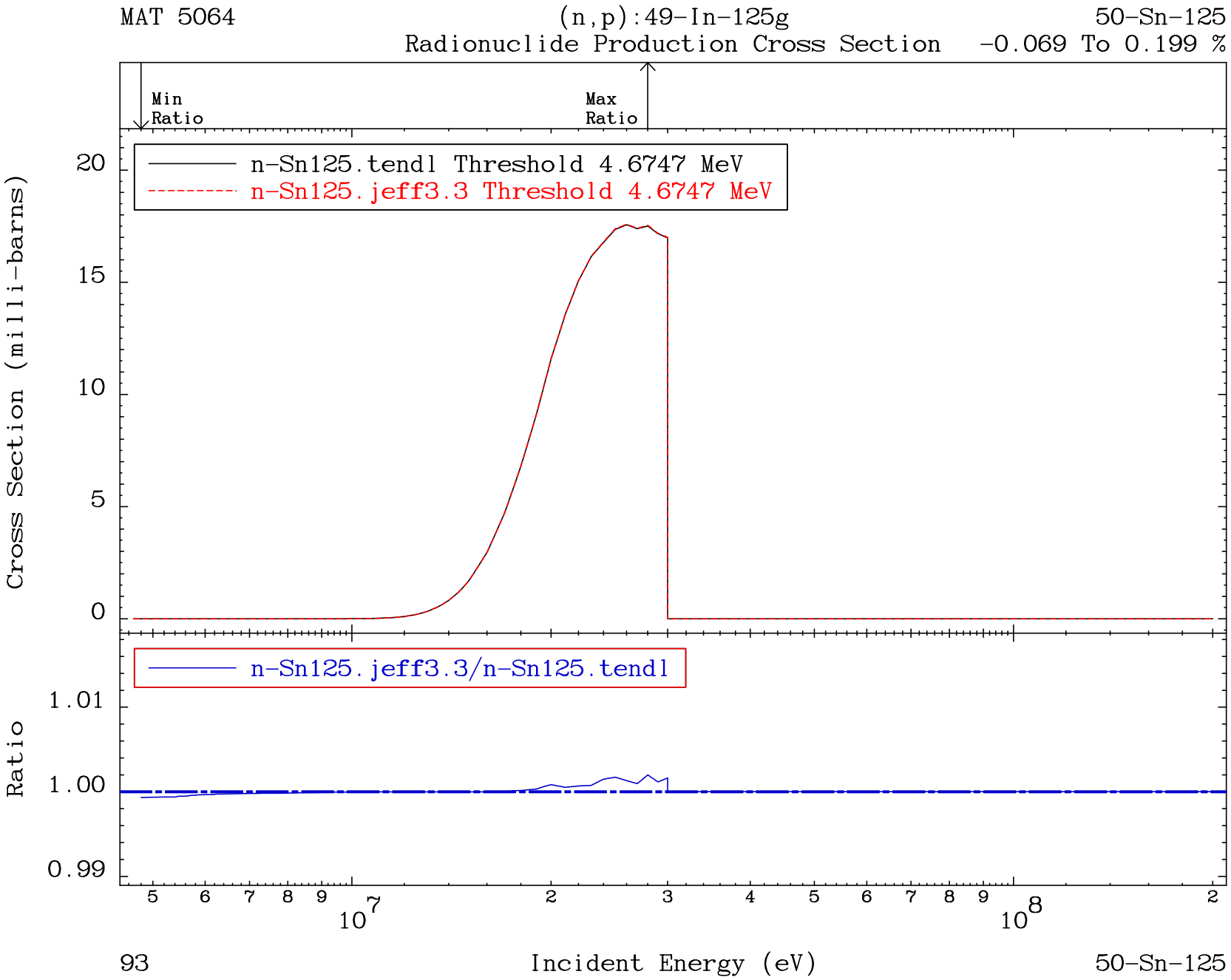

MAT 5064
(n,2n) p:49-In-123g
50-Sn-125
Radionuclide Production Cross Section
-2.277 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 17.970 MeV
n-Sn125.jeff3.3 Threshold 17.970 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
88
Incident Energy (eV)
50-Sn-125

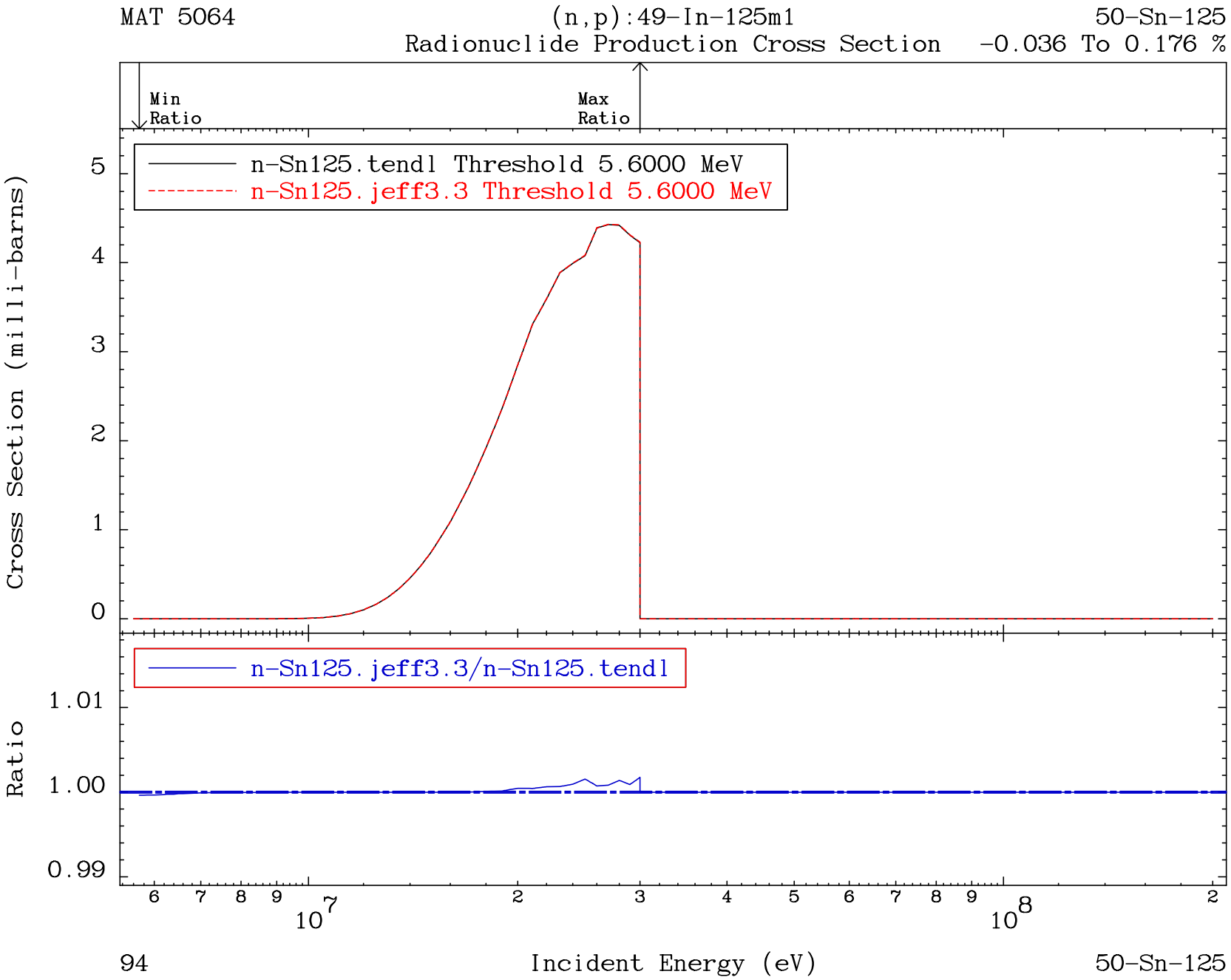

MAT 5064
(n,2n) p:49-In-123m1
50-Sn-125
Radionuclide Production Cross Section -0.518 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 18.300 MeV
n-Sn125.jeff3.3 Threshold 18.300 MeV
Cross Section (micro-barns)
800
600
400
200
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
89
Incident Energy (eV)
50-Sn-125

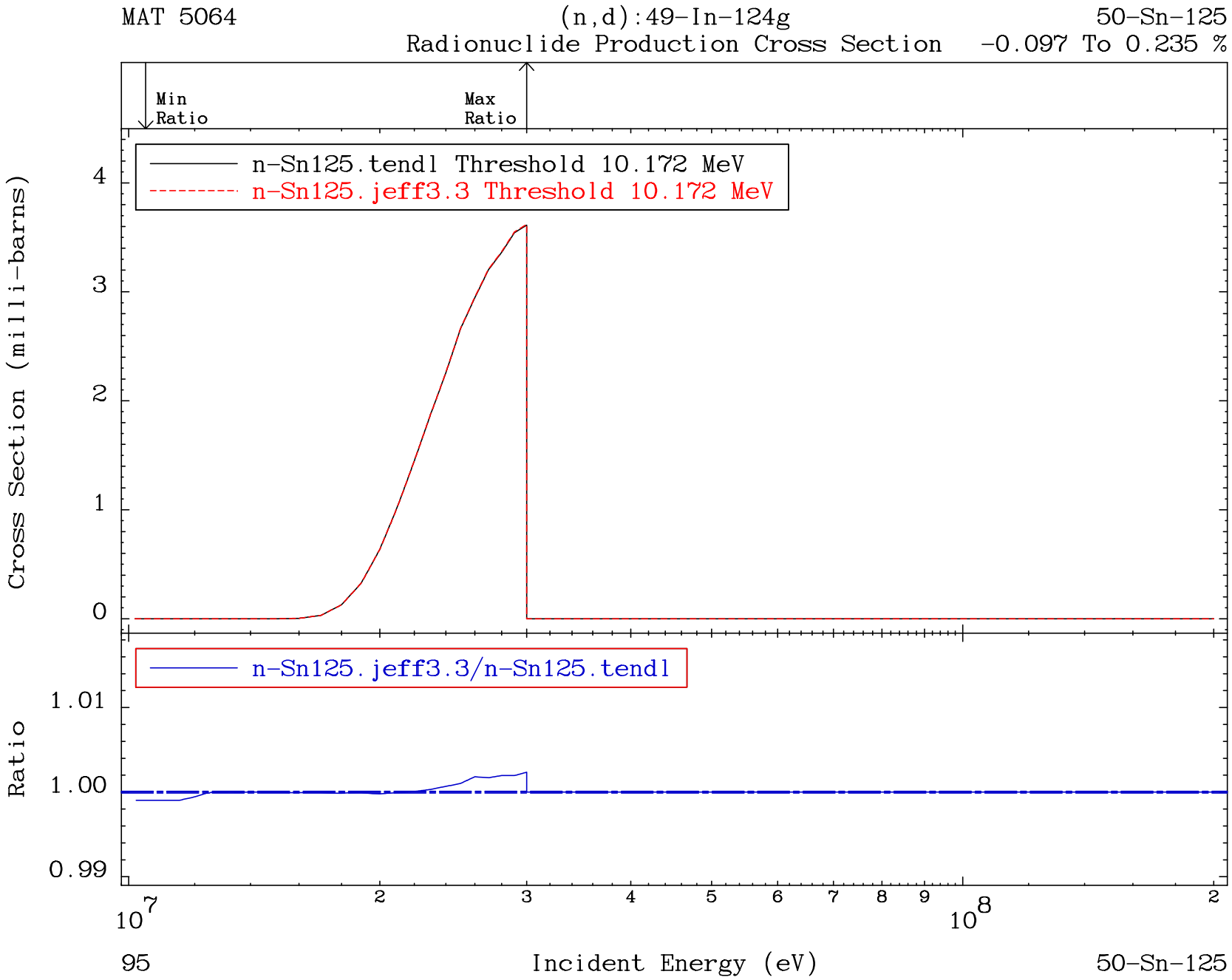

MAT 5064
(n,3n) p:49-In-122g
50-Sn-125
Radionuclide Production Cross Section
-2.763 To 0.000 %
Max
Ratio
n-Sn125.tendl Threshold 25.963 MeV
n-Sn125.jeff3.3 Threshold 25.963 MeV
Cross Section (10^{-9} barns)
160
140
120
100
80
60
40
20
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.00
0.99
0.98
40
60
80
100
120
140
160
180
200
90
Incident Energy (MeV)
50-Sn-125

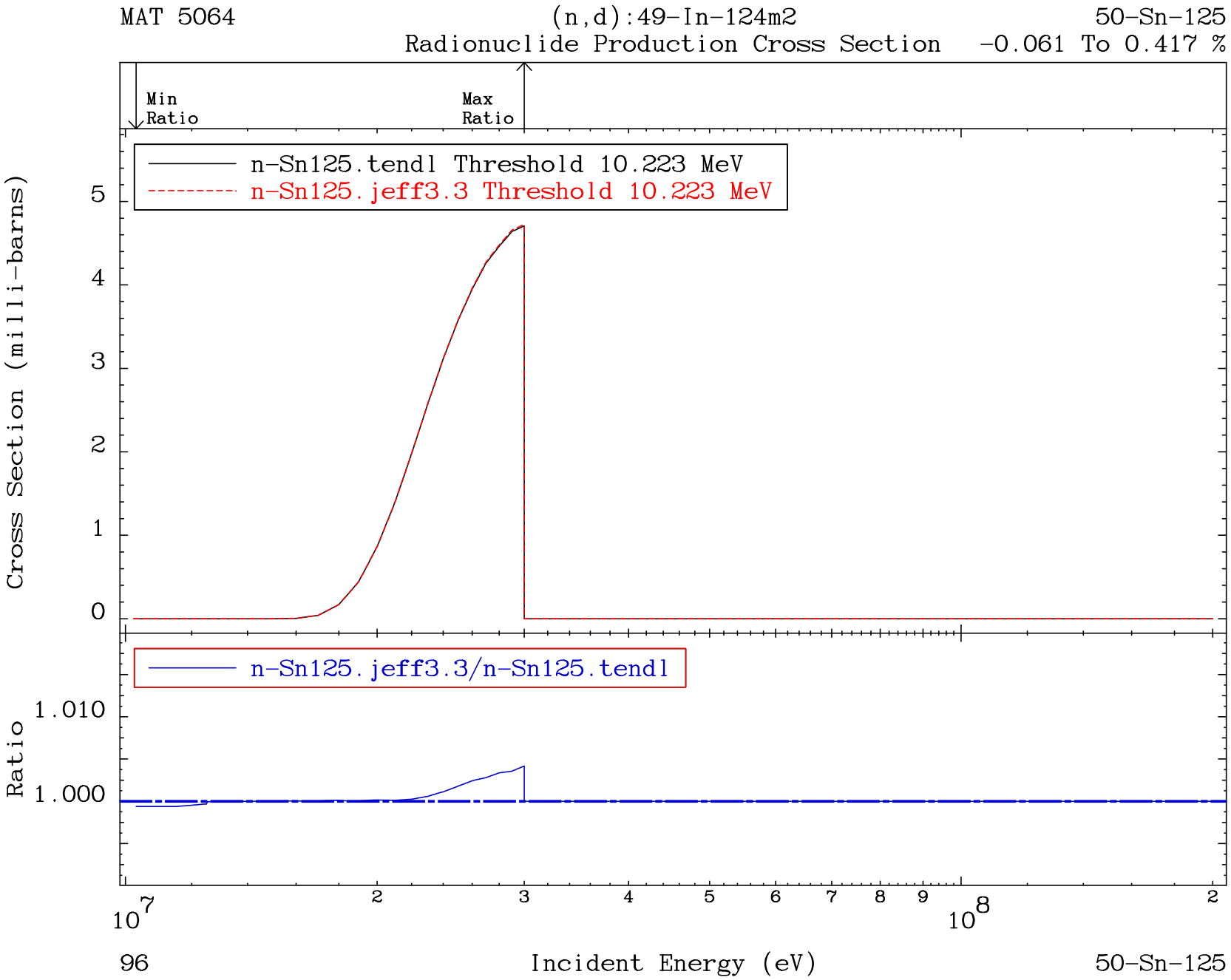

MAT 5064
(n,3n) p:49-In-122m1
50-Sn-125
Radionuclide Production Cross Section
-4.256 To 0.000 %
Max
Ratio
n-Sn125.tendl Threshold 26.004 MeV
n-Sn125.jeff3.3 Threshold 26.004 MeV
Cross Section (10^-9 barns)
400
300
200
100
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.00
0.98
0.96
40
60
80
100
120
140
160
180
200
91
Incident Energy (MeV)
50-Sn-125

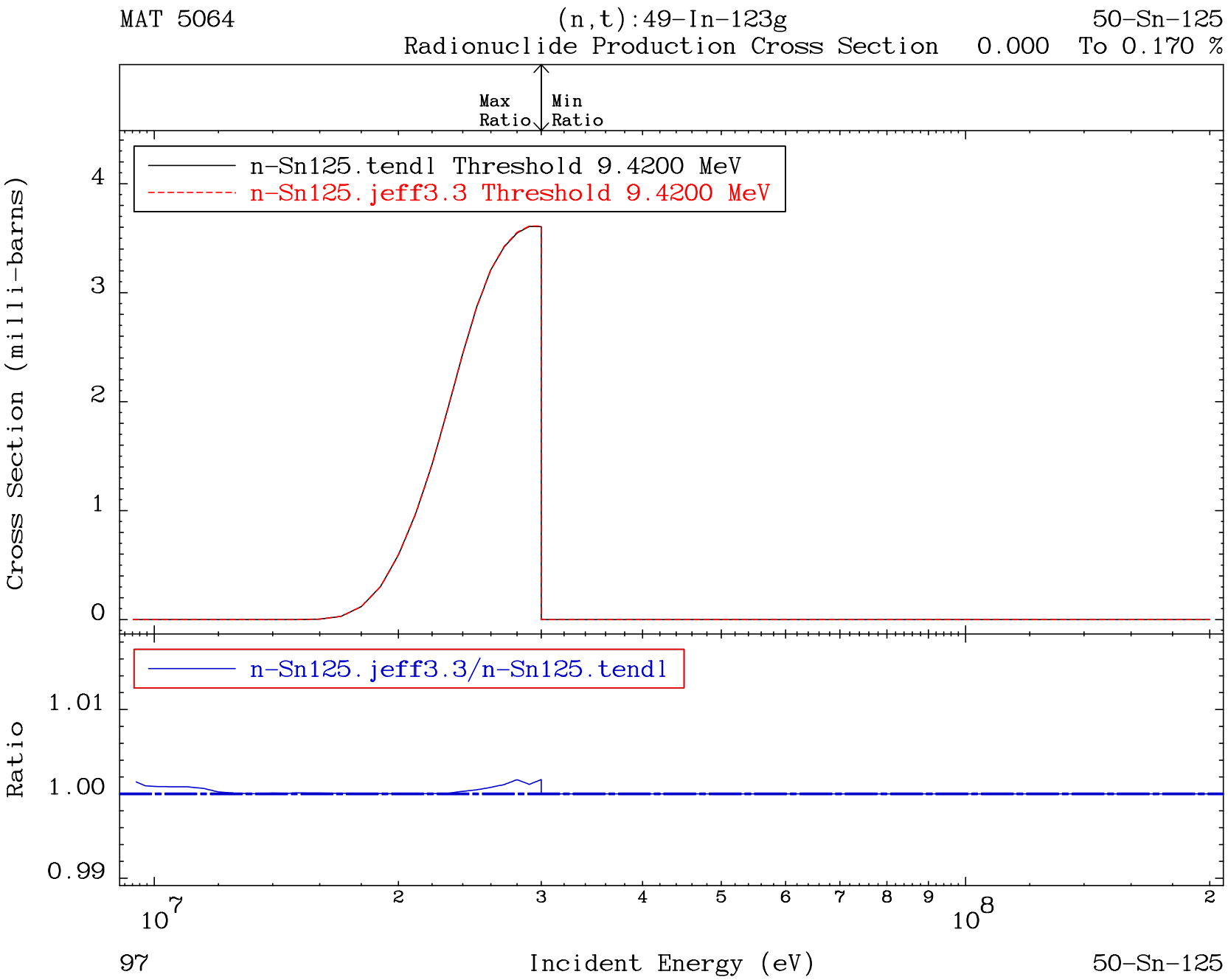

MAT 5064
(n,3n) p:49-In-122m5
50-Sn-125
Radionuclide Production Cross Section -1.462 To 0.000 %
Max Ratio
n-Sn125.tendl Threshold 26.256 MeV
n-Sn125.jeff3.3 Threshold 26.256 MeV
Cross Section (10^{-9} barns)
200
150
100
50
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.00
0.99
40
60
80
100
120
140
160
180
200
92
Incident Energy (MeV)
50-Sn-125

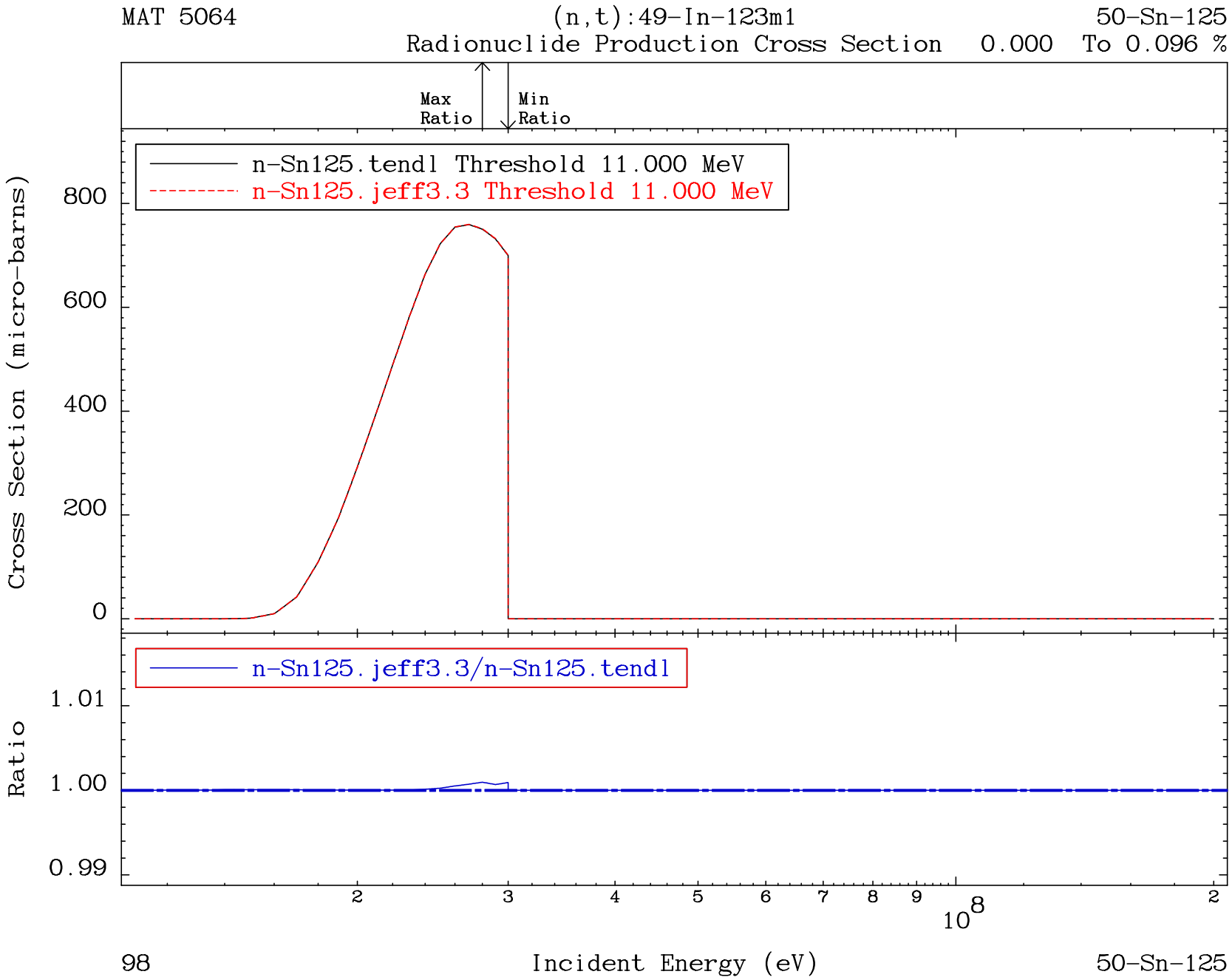

MAT 5064
(n,p):49-In-125g
50-Sn-125
Radionuclide Production Cross Section
-0.069 To 0.199 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 4.6747 MeV
n-Sn125.jeff3.3 Threshold 4.6747 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
93
Incident Energy (eV)
50-Sn-125

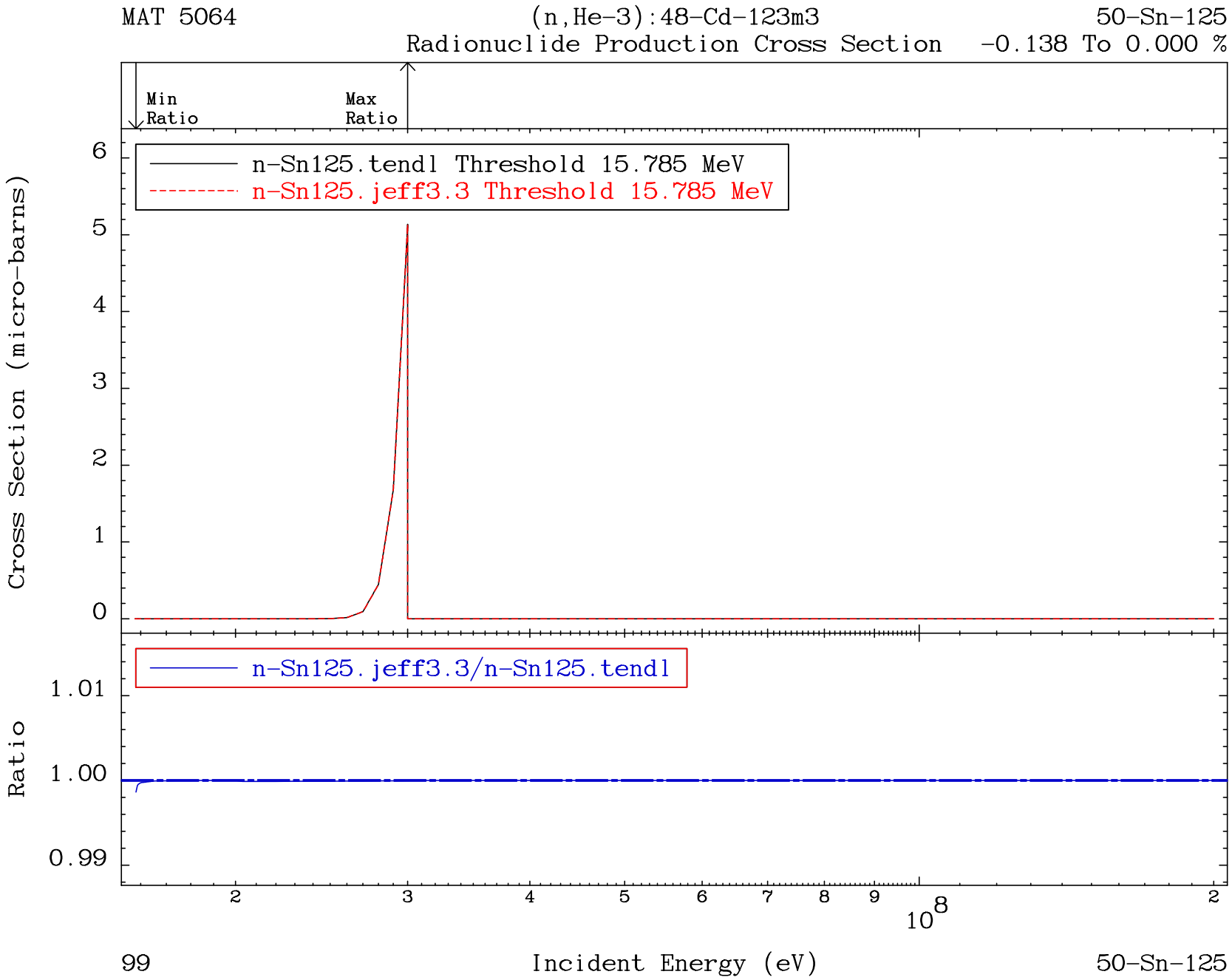

MAT 5064
(n,p):49-In-125m1
50-Sn-125
Radionuclide Production Cross Section
-0.036 To 0.176 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 5.6000 MeV
n-Sn125.jeff3.3 Threshold 5.6000 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
0.99
1.00
1.01
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
94
50-Sn-125


MAT 5064
(n,d):49-In-124g
50-Sn-125
Radionuclide Production Cross Section
-0.097 To 0.235 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 10.172 MeV
n-Sn125.jeff3.3 Threshold 10.172 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
0.99
1.00
1.01
10^7
2
3
4
5
6
7
8
9
10^8
2
95
Incident Energy (eV)
50-Sn-125


MAT 5064
(n,d):49-In-124m2
50-Sn-125
Radionuclide Production Cross Section -0.061 To 0.417 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 10.223 MeV
n-Sn125.jeff3.3 Threshold 10.223 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.000
1.010
10^7
2
3
4
5
6
7
8
9
10^8
2
96
Incident Energy (eV)
50-Sn-125


MAT 5064
(n,t):49-In-123g
50-Sn-125
Radionuclide Production Cross Section 0.000 To 0.170 %
Max Ratio
Min Ratio
n-Sn125.tendl Threshold 9.4200 MeV
n-Sn125.jeff3.3 Threshold 9.4200 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
0.99
1.00
1.01
10^7
2
3
4
5
6
7
8
9
10^8
2
97
Incident Energy (eV)
50-Sn-125


MAT 5064
(n,t):49-In-123m1
50-Sn-125
Radionuclide Production Cross Section 0.000 To 0.096 %
Max Ratio
Min Ratio
n-Sn125.tendl Threshold 11.000 MeV
n-Sn125.jeff3.3 Threshold 11.000 MeV
Cross Section (micro-barns)
800
600
400
200
0
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
98
Incident Energy (eV)
50-Sn-125


MAT 5064
(n,He-3):48-Cd-123m3
50-Sn-125
Radionuclide Production Cross Section -0.138 To 0.000 %
Min Ratio
Max Ratio
n-Sn125.tendl Threshold 15.785 MeV
n-Sn125.jeff3.3 Threshold 15.785 MeV
Cross Section (micro-barns)
0
1
2
3
4
5
6
n-Sn125.jeff3.3/n-Sn125.tendl
Ratio
0.99
1.00
1.01
2
3
4
5
6
7
8
9
10^8
2
99
Incident Energy (eV)
50-Sn-125