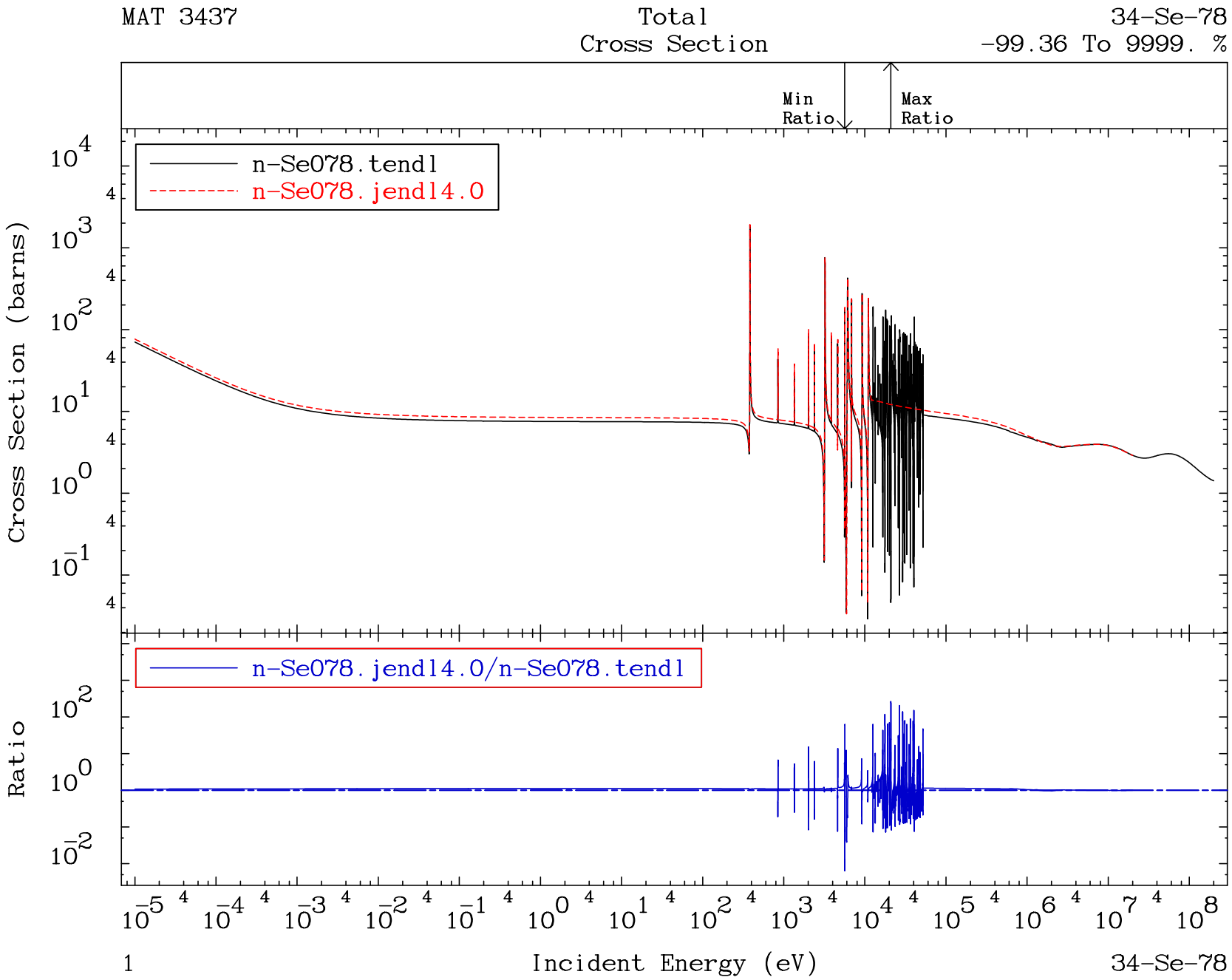
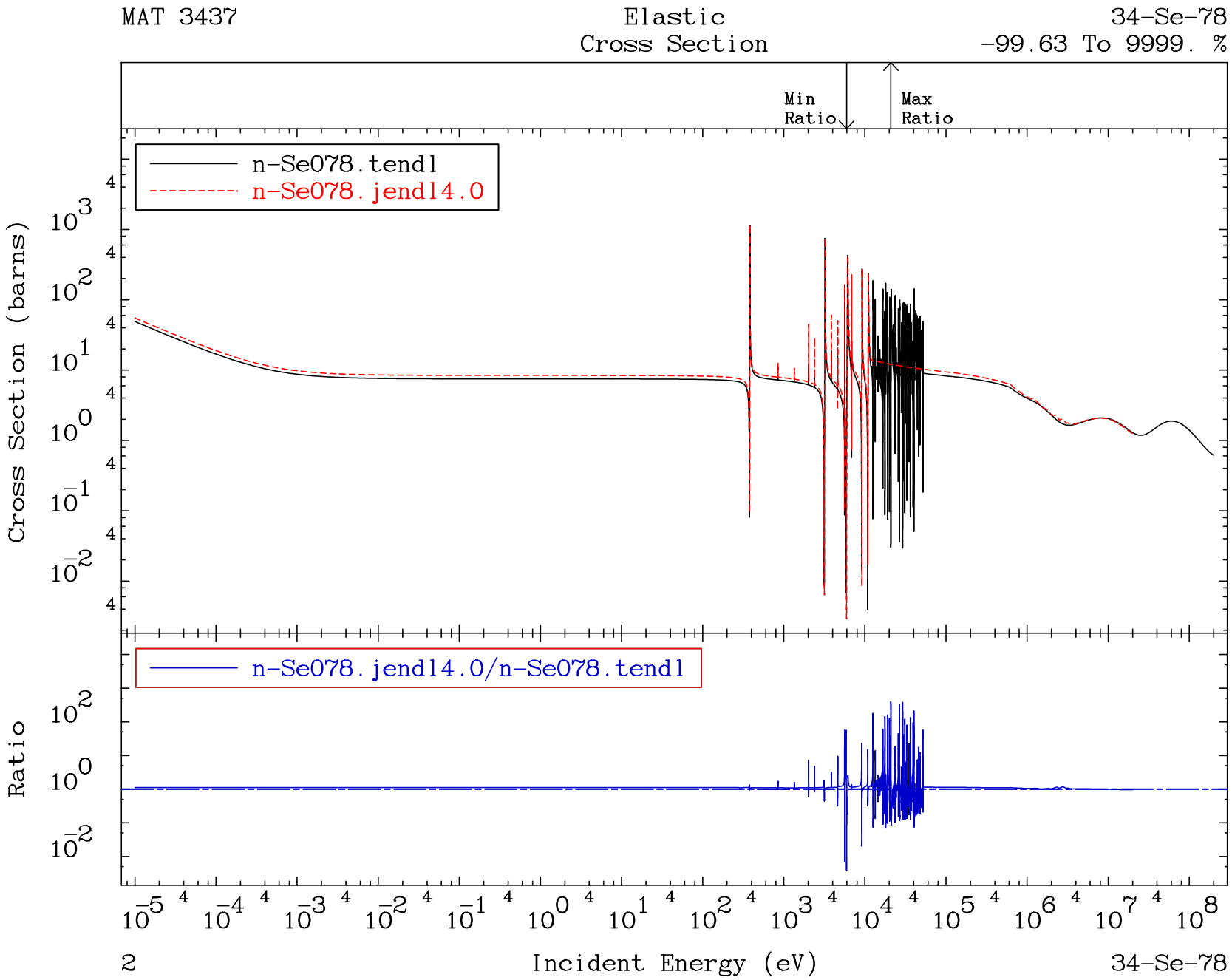
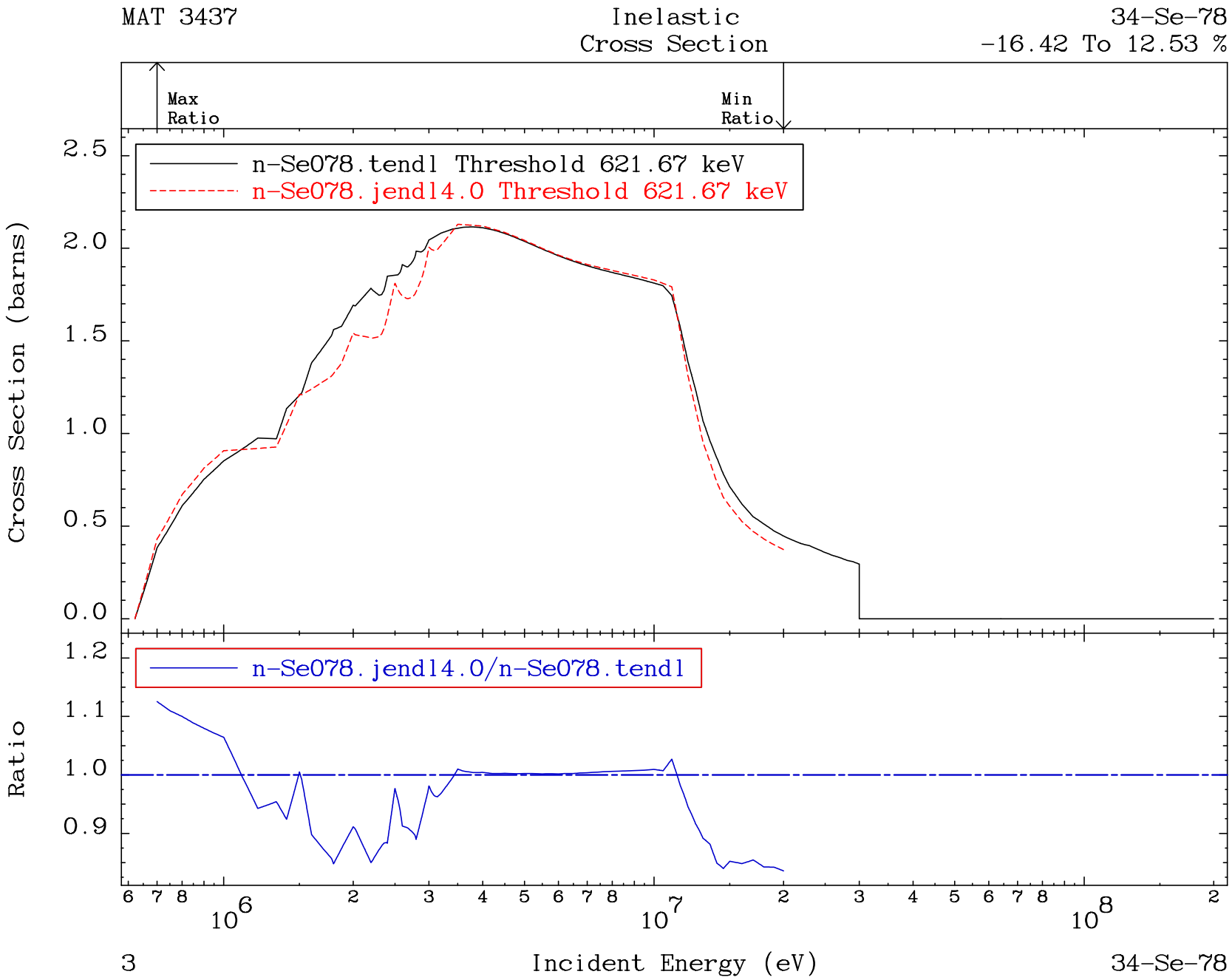
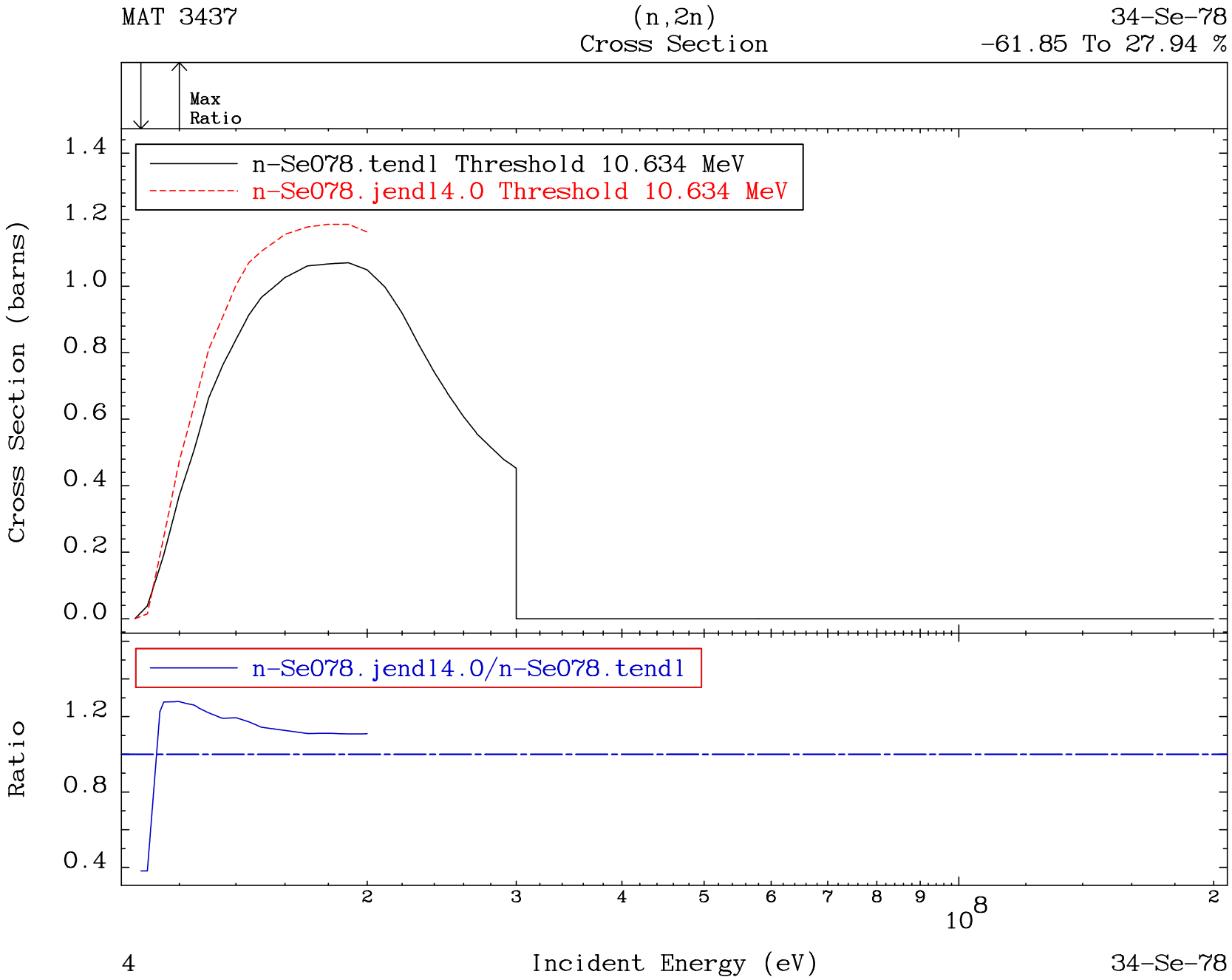
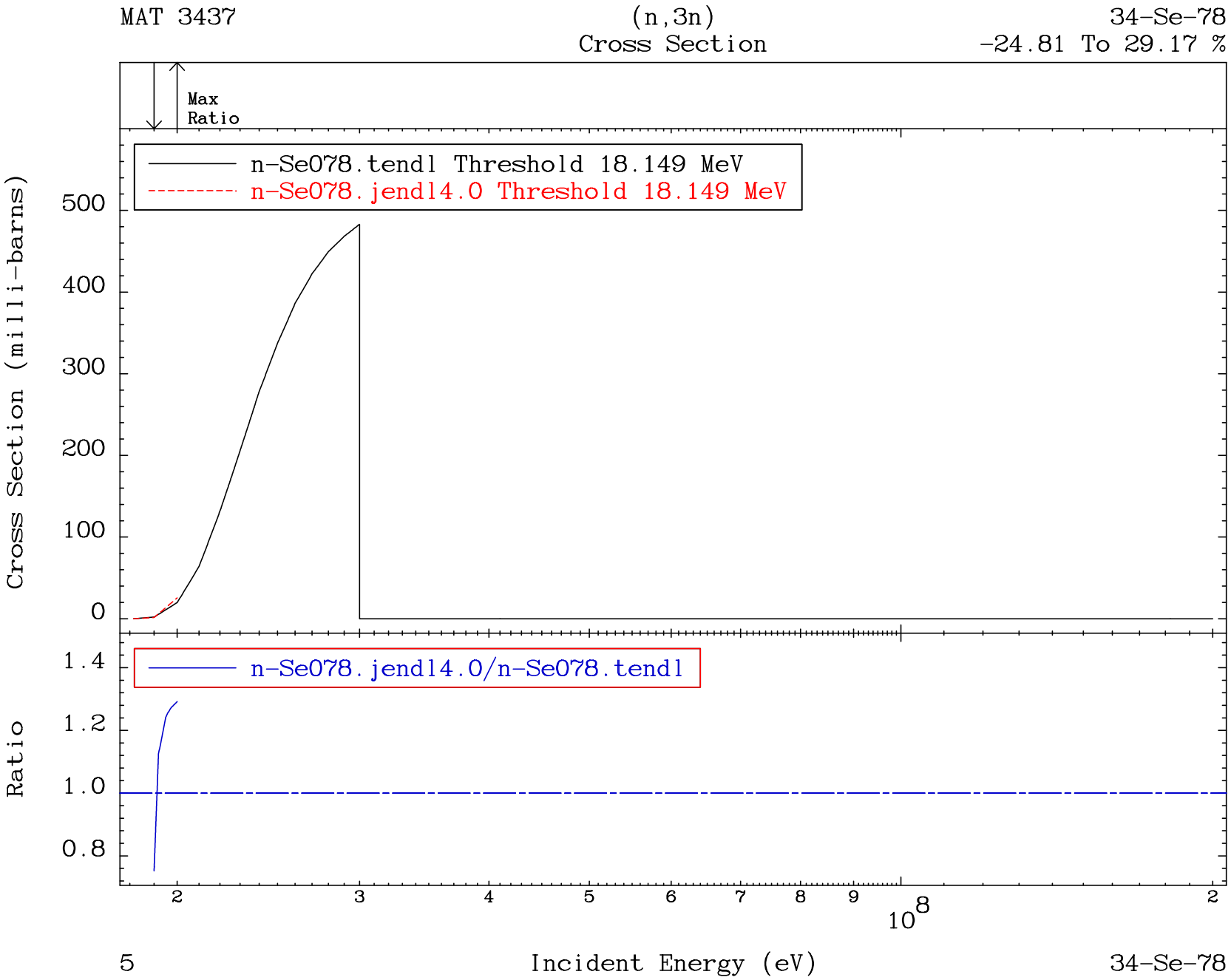
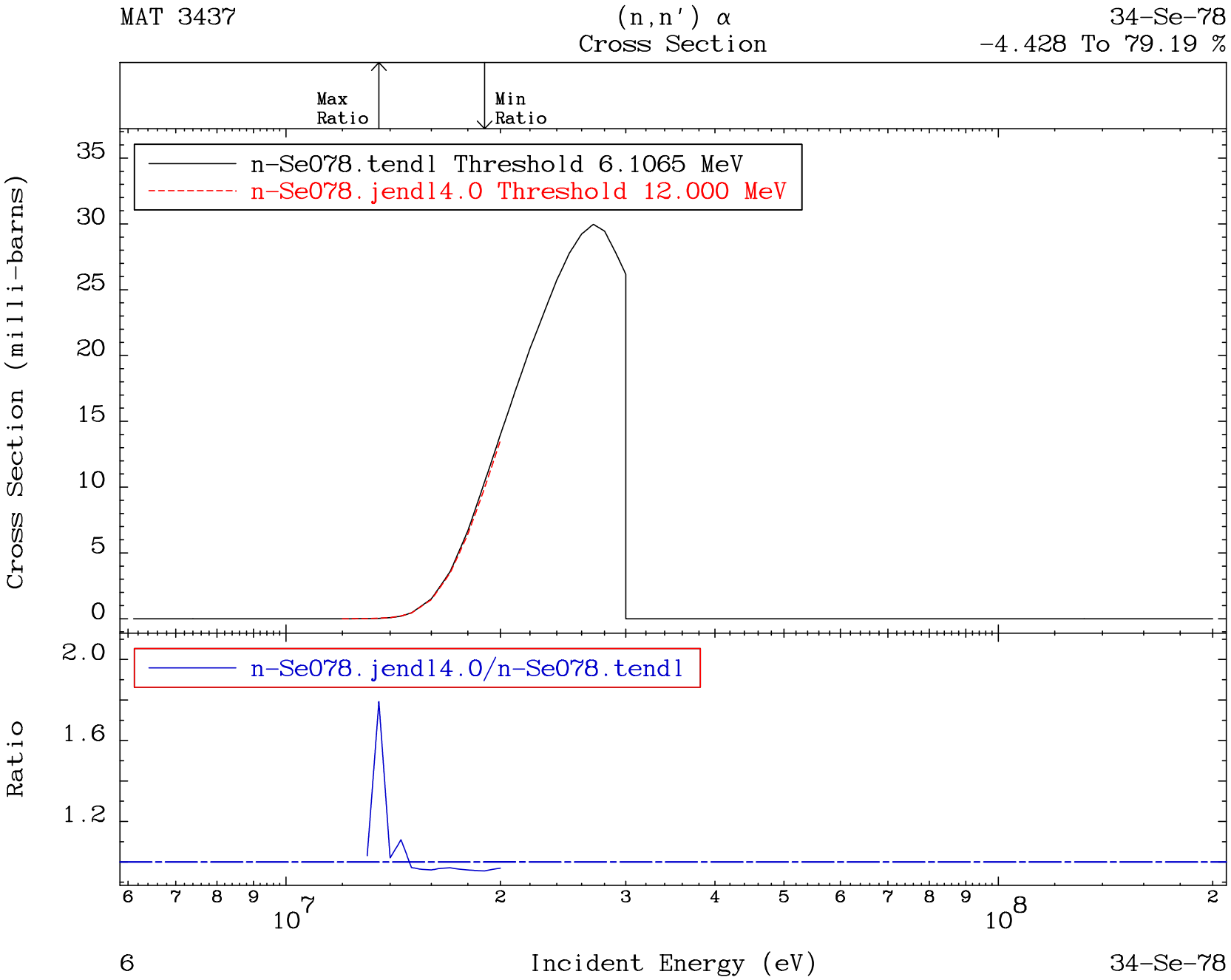

MAT 3437
Total
Cross Section
34-Se-78
-99.36 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl
n-Se078.jendl4.0
Cross Section (barns)
n-Se078.jendl4.0/n-Se078.tendl
Ratio
Incident Energy (eV)
1
34-Se-78

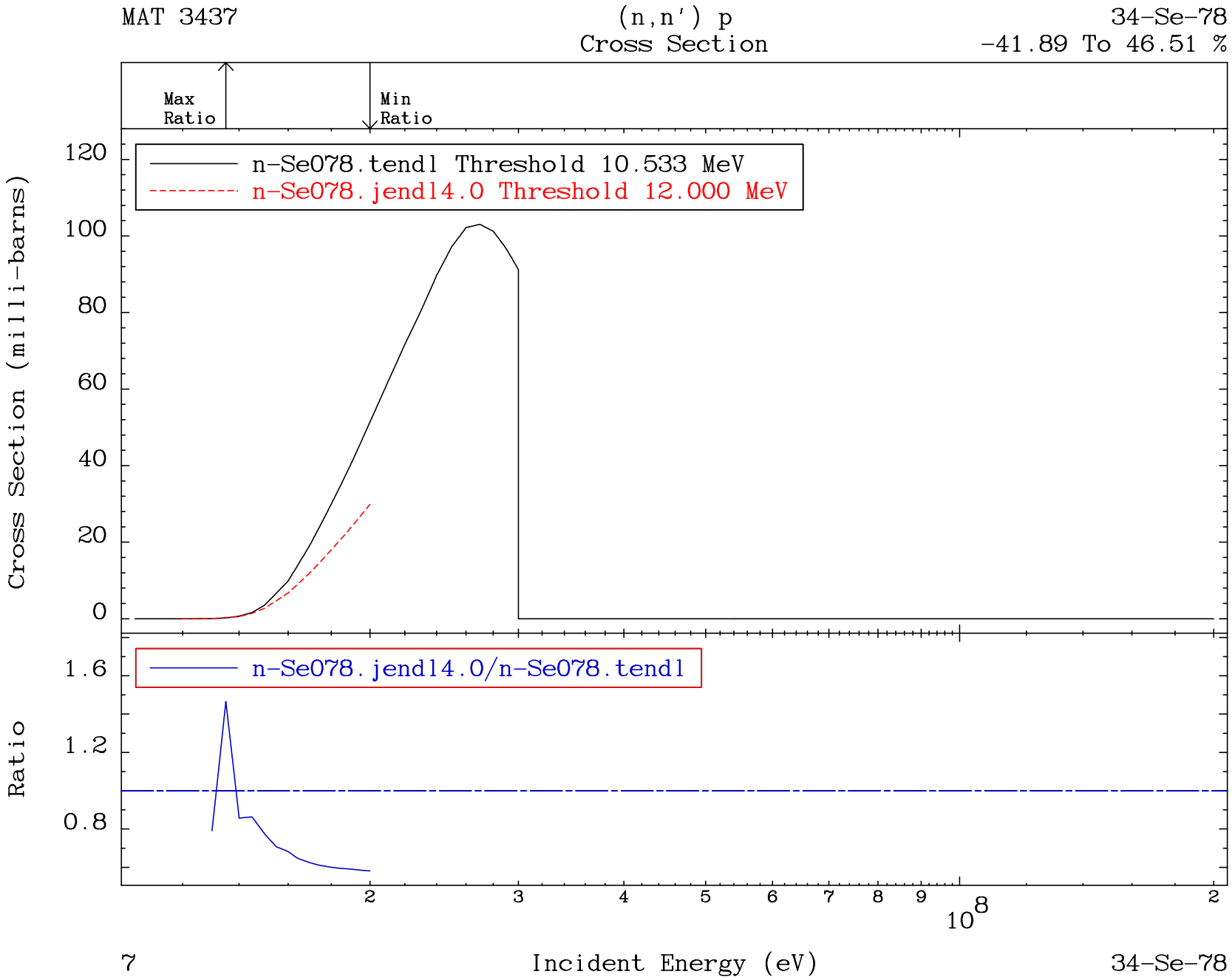

MAT 3437
Elastic
Cross Section
34-Se-78
-99.63 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl
n-Se078.jendl4.0
Cross Section (barns)
n-Se078.jendl4.0/n-Se078.tendl
Ratio
Incident Energy (eV)
2
34-Se-78

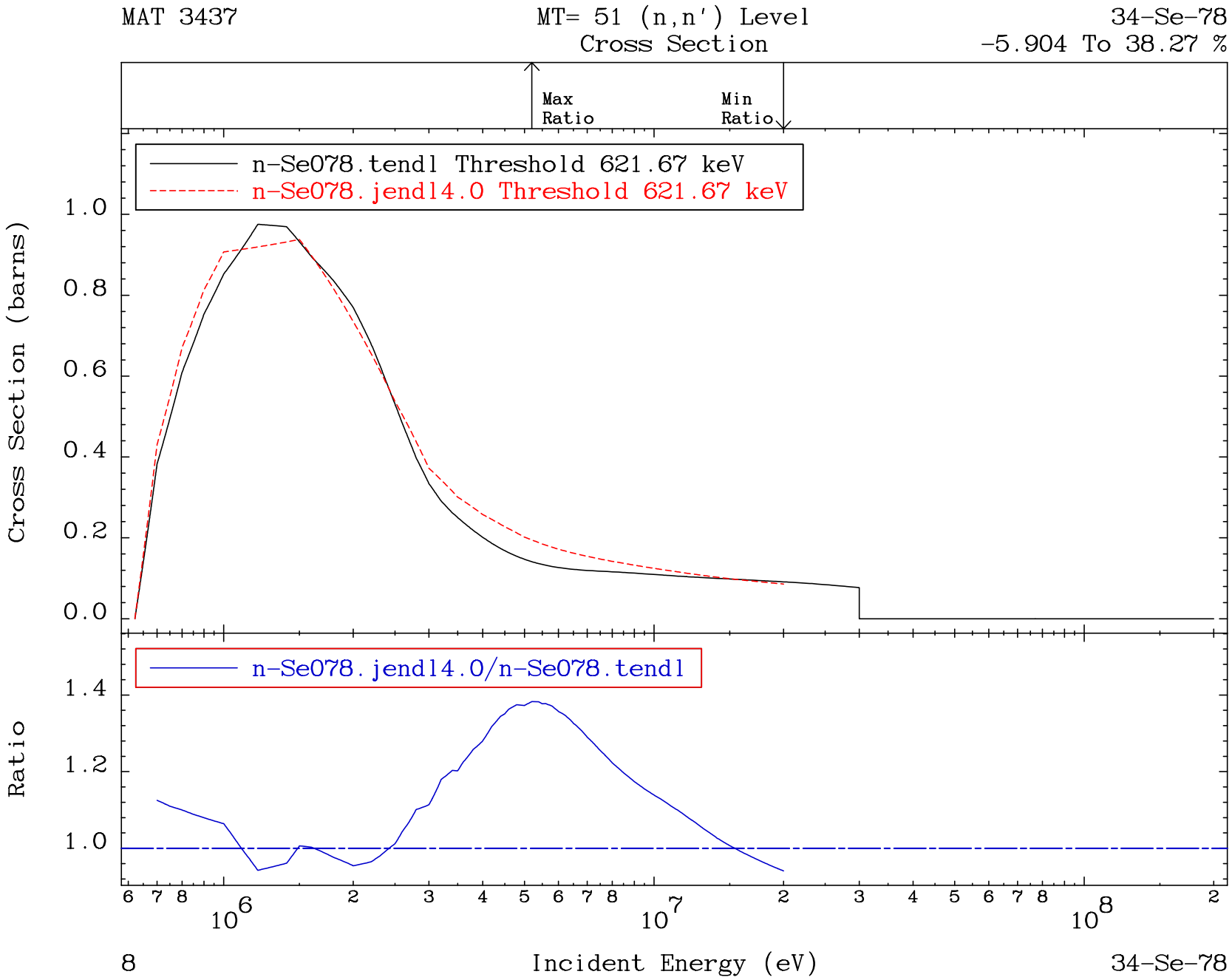

MAT 3437
Inelastic
Cross Section
34-Se-78
-16.42 To 12.53 %
Max
Ratio
Min
Ratio
n-Se078.tendl Threshold 621.67 keV
n-Se078.jendl4.0 Threshold 621.67 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
1.2
1.1
1.0
0.9
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
34-Se-78

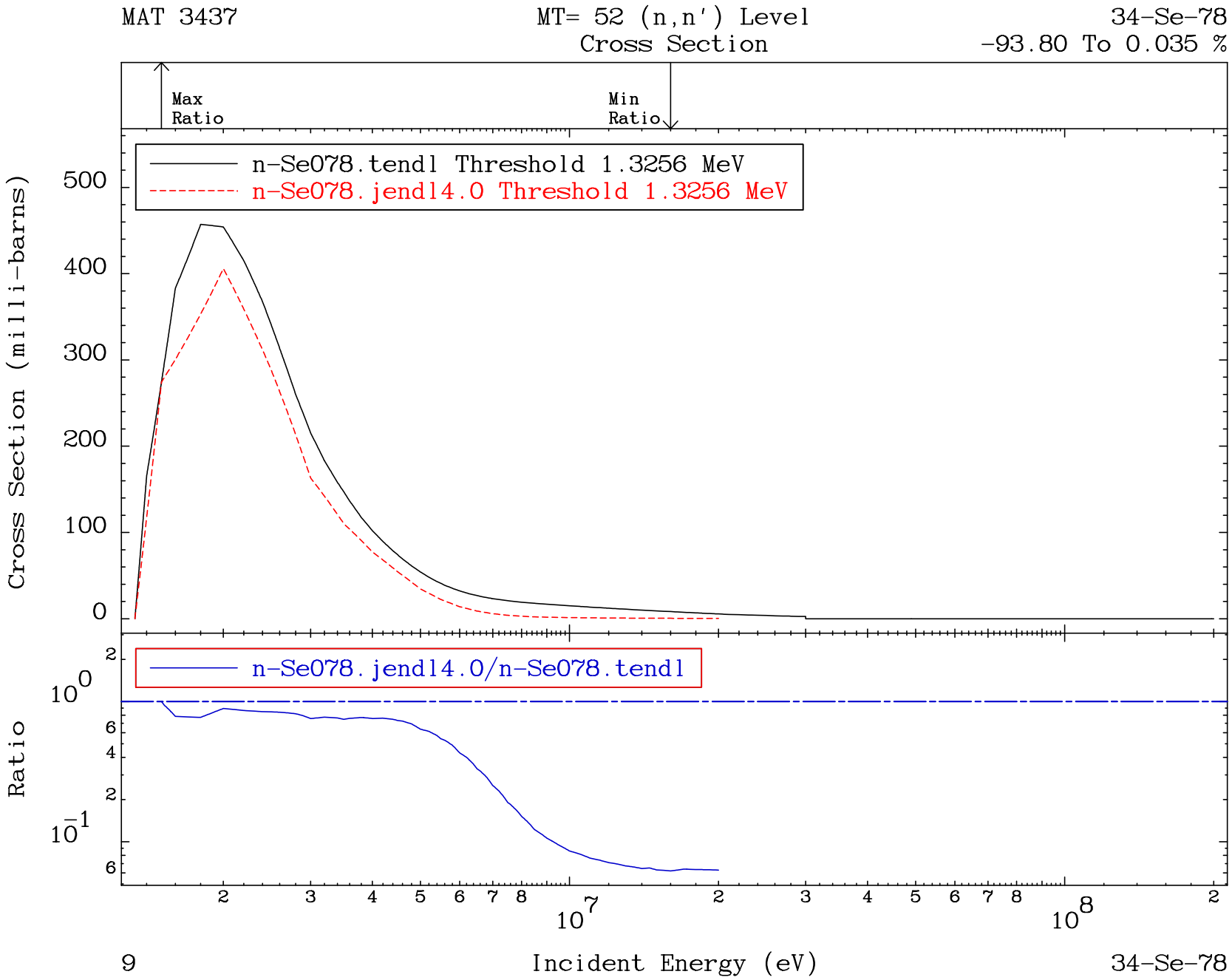

MAT 3437
(n,2n)
Cross Section
34-Se-78
-61.85 To 27.94 %
Max
Ratio
n-Se078.tendl Threshold 10.634 MeV
n-Se078.jendl4.0 Threshold 10.634 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
34-Se-78

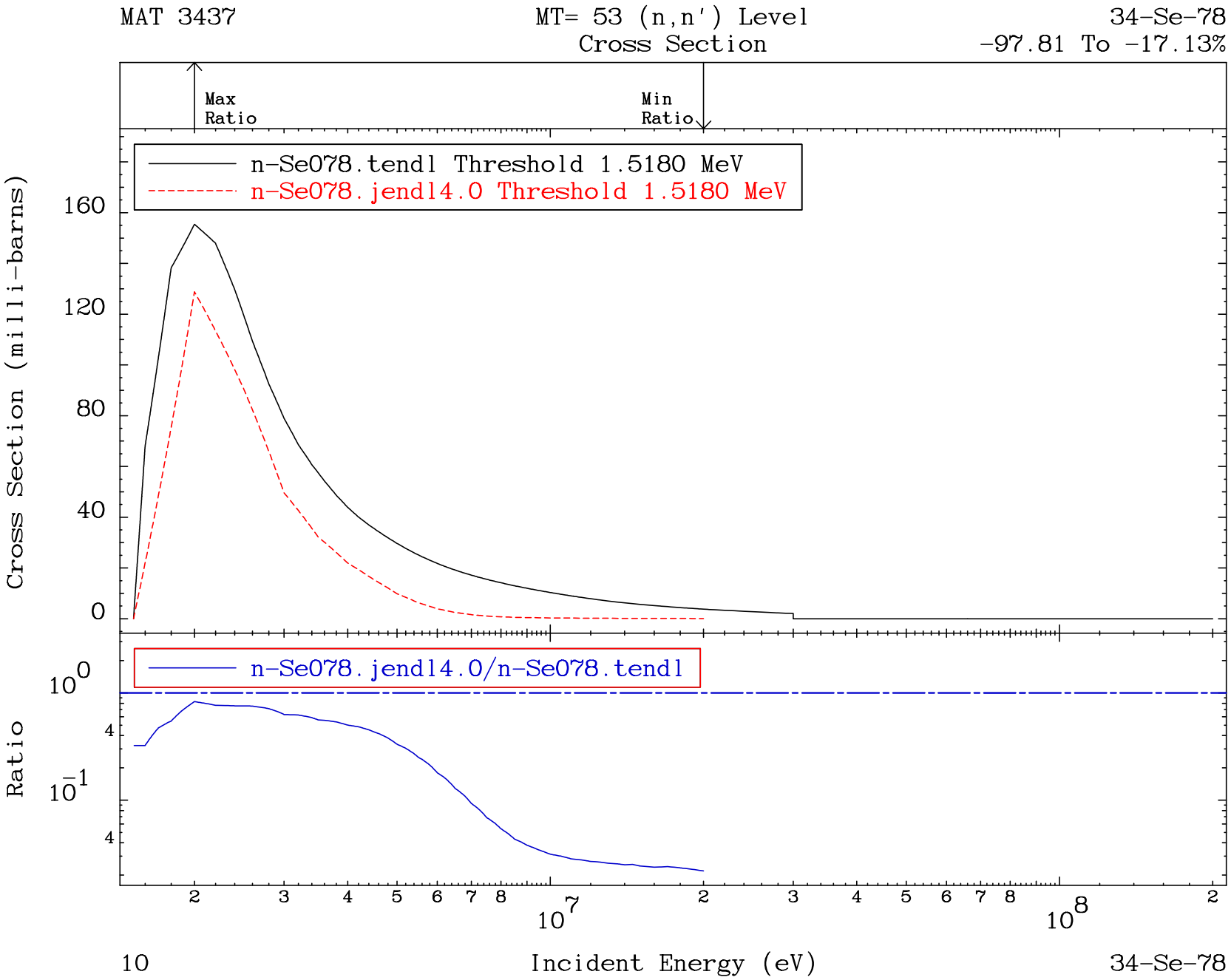

MAT 3437
(n,3n)
Cross Section
34-Se-78
-24.81 To 29.17 %
Max
Ratio
n-Se078.tendl Threshold 18.149 MeV
n-Se078.jendl4.0 Threshold 18.149 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
1.4
1.2
1.0
0.8
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
34-Se-78

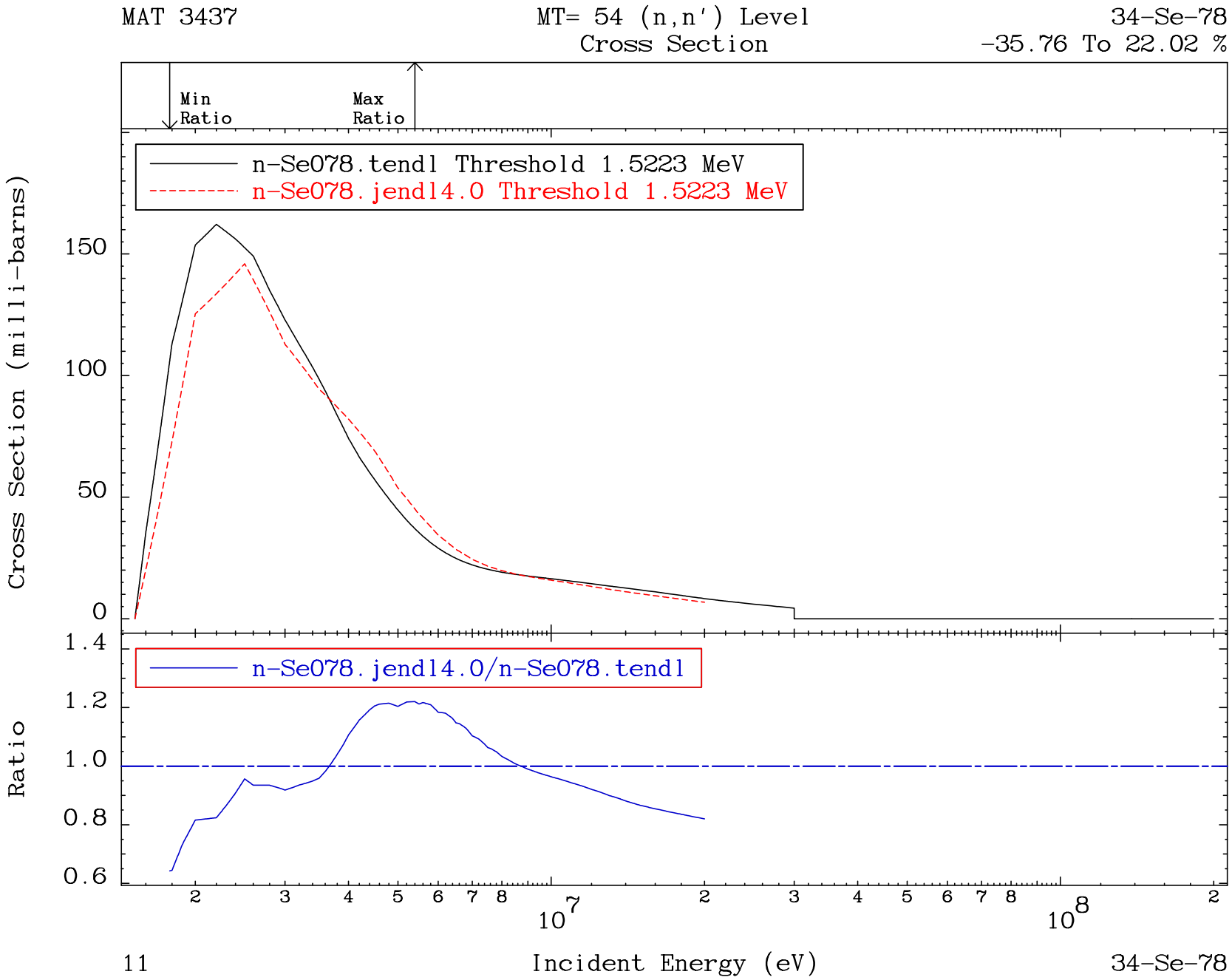

MAT 3437
(n,n') α
Cross Section
34-Se-78
-4.428 To 79.19 %
Max Ratio
Min Ratio
n-Se078.tendl Threshold 6.1065 MeV
n-Se078.jendl4.0 Threshold 12.000 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
2.0
1.6
1.2
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
34-Se-78

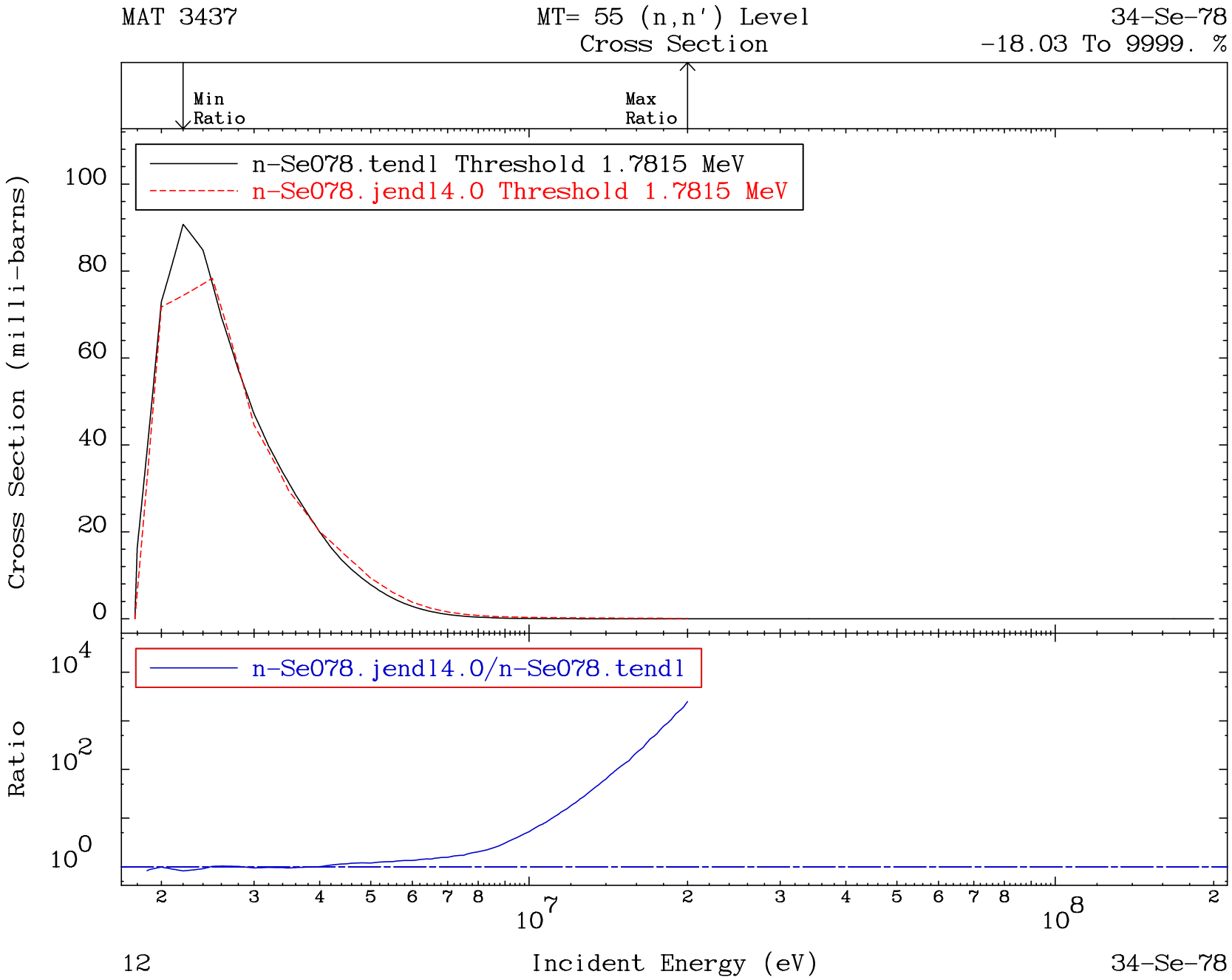

MAT 3437
(n,n') p
Cross Section
34-Se-78
-41.89 To 46.51 %
Max Ratio
Min Ratio
n-Se078.tendl Threshold 10.533 MeV
n-Se078.jendl4.0 Threshold 12.000 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
1.6
1.2
0.8
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
34-Se-78

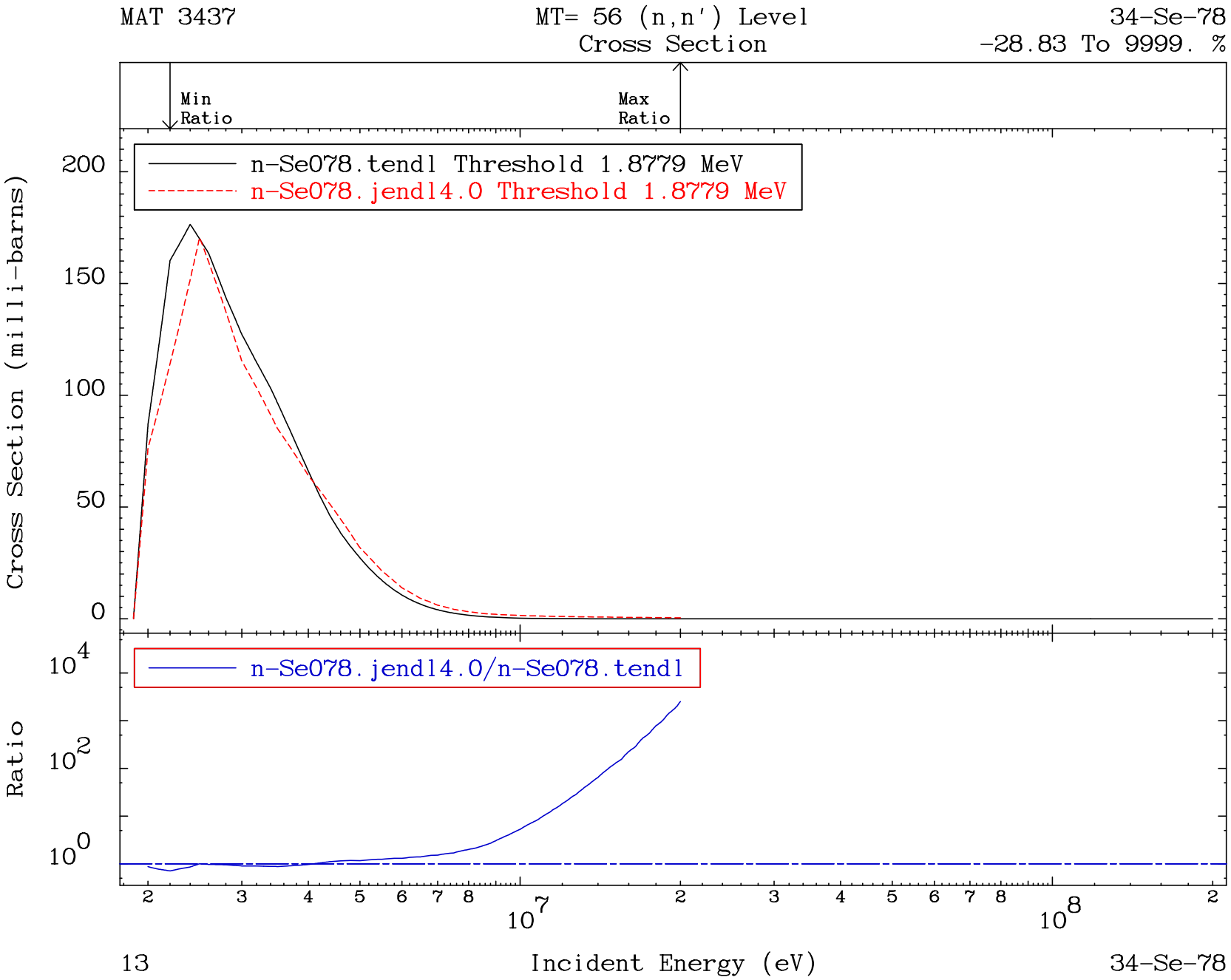

MAT 3437
MT= 51 (n,n') Level
Cross Section
34-Se-78
-5.904 To 38.27 %
Max
Ratio
Min
Ratio
n-Se078.tendl Threshold 621.67 keV
n-Se078.jendl4.0 Threshold 621.67 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
1.4
1.2
1.0
6 7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
8
Incident Energy (eV)
34-Se-78

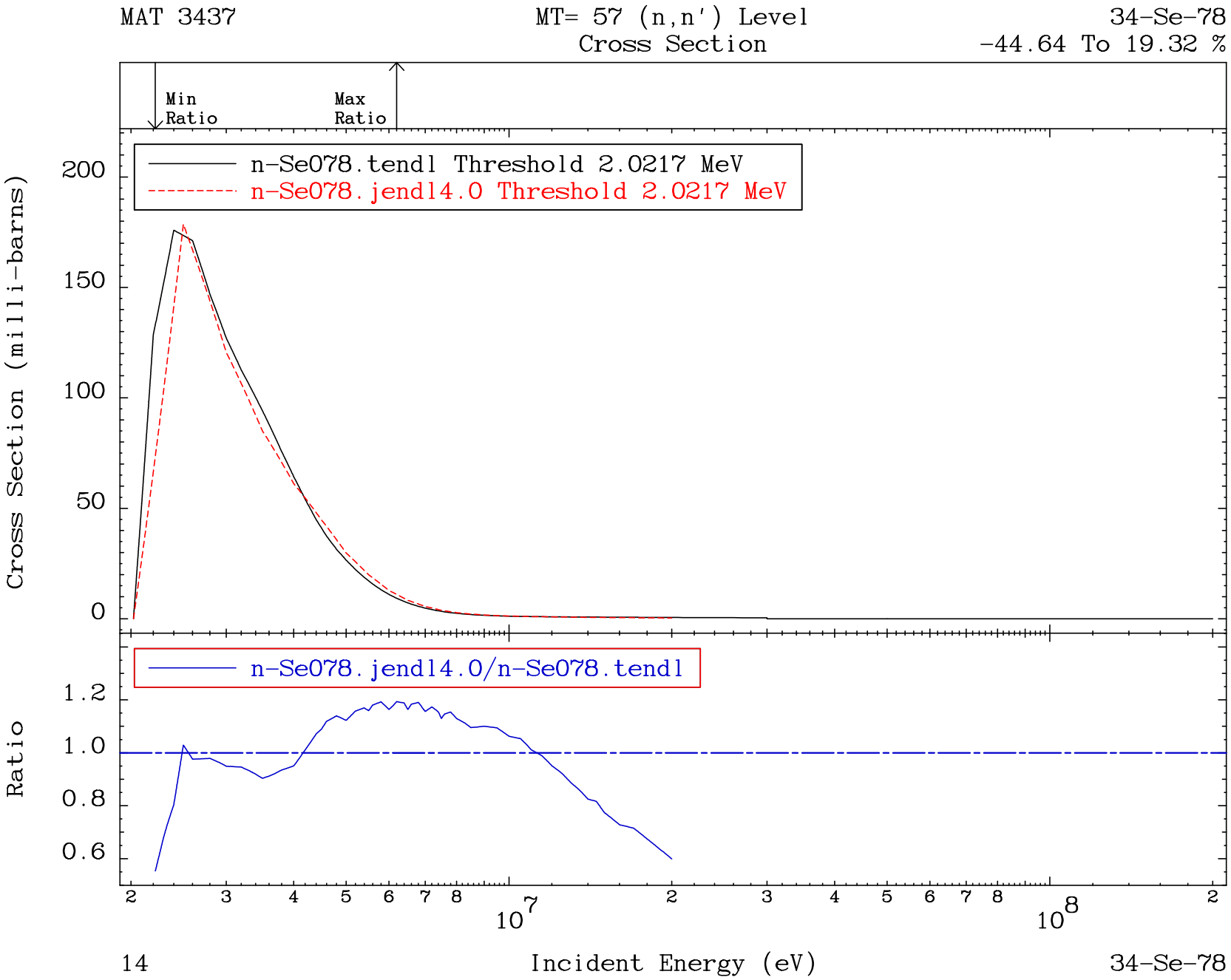

MAT 3437
MT= 52 (n,n') Level
Cross Section
34-Se-78
-93.80 To 0.035 %
Max Ratio
Min Ratio
n-Se078.tendl Threshold 1.3256 MeV
n-Se078.jendl4.0 Threshold 1.3256 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
10^0
10^-1
2
6
4
2
6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
9
Incident Energy (eV)
34-Se-78

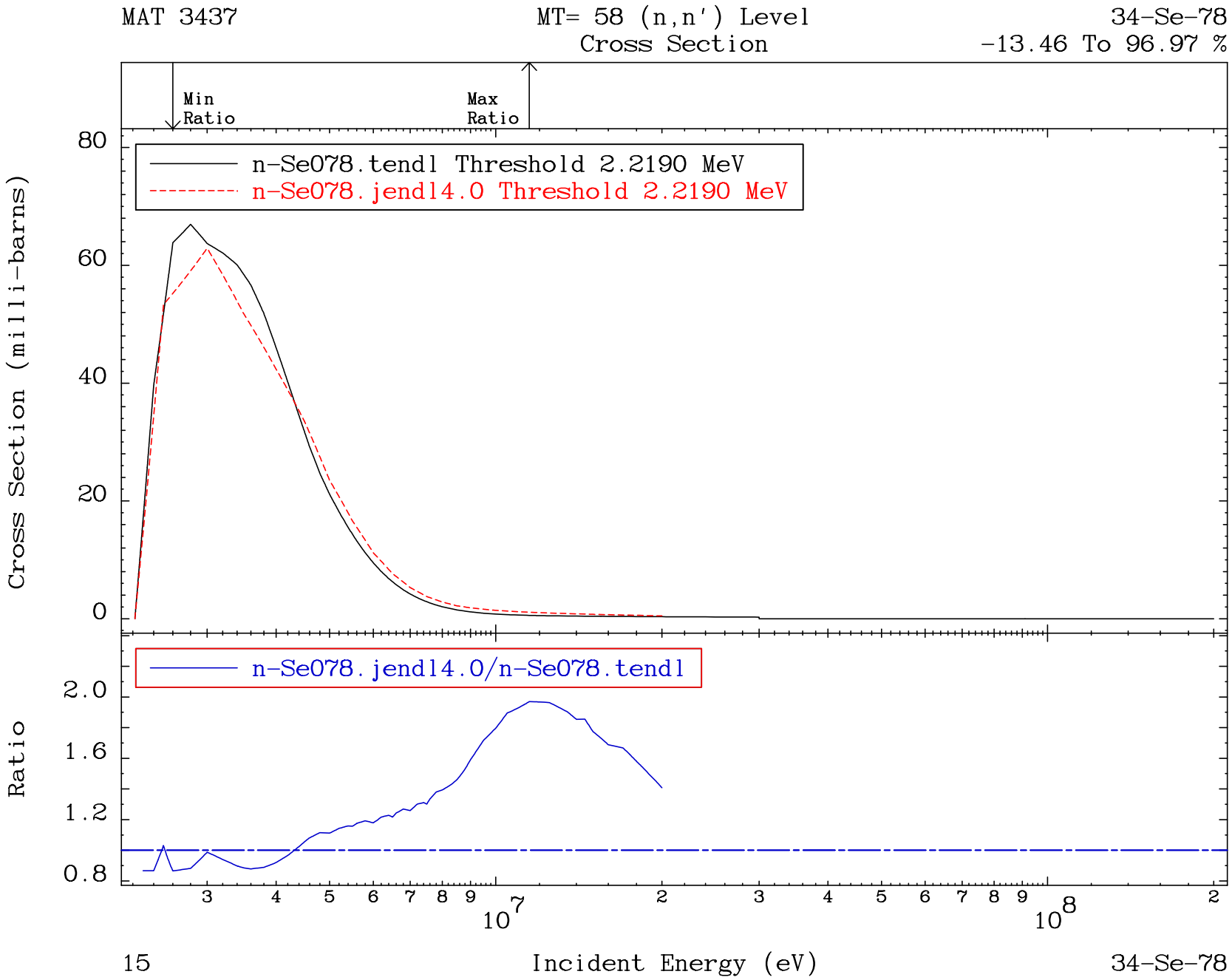

MAT 3437
MT= 53 (n,n') Level
Cross Section
34-Se-78
-97.81 To -17.13%
Max Ratio
Min Ratio
n-Se078.tendl Threshold 1.5180 MeV
n-Se078.jendl4.0 Threshold 1.5180 MeV
Cross Section (milli-barns)
160
120
80
40
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
10^0
4
10^-1
4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
10
Incident Energy (eV)
34-Se-78

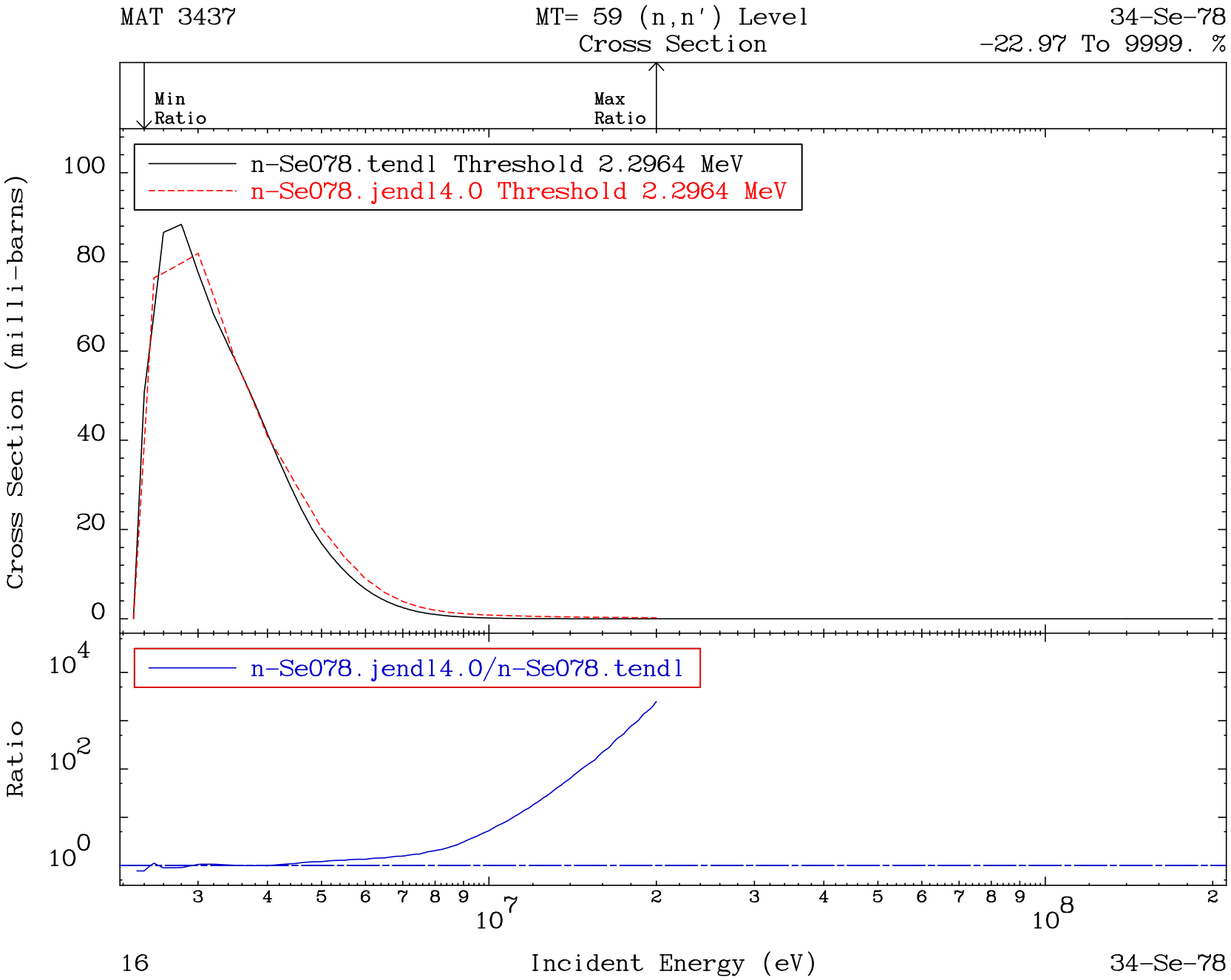

MAT 3437
MT= 54 (n,n') Level
Cross Section
34-Se-78
-35.76 To 22.02 %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 1.5223 MeV
n-Se078.jendl4.0 Threshold 1.5223 MeV
Cross Section (milli-barns)
150
100
50
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
1.4
1.2
1.0
0.8
0.6
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
34-Se-78

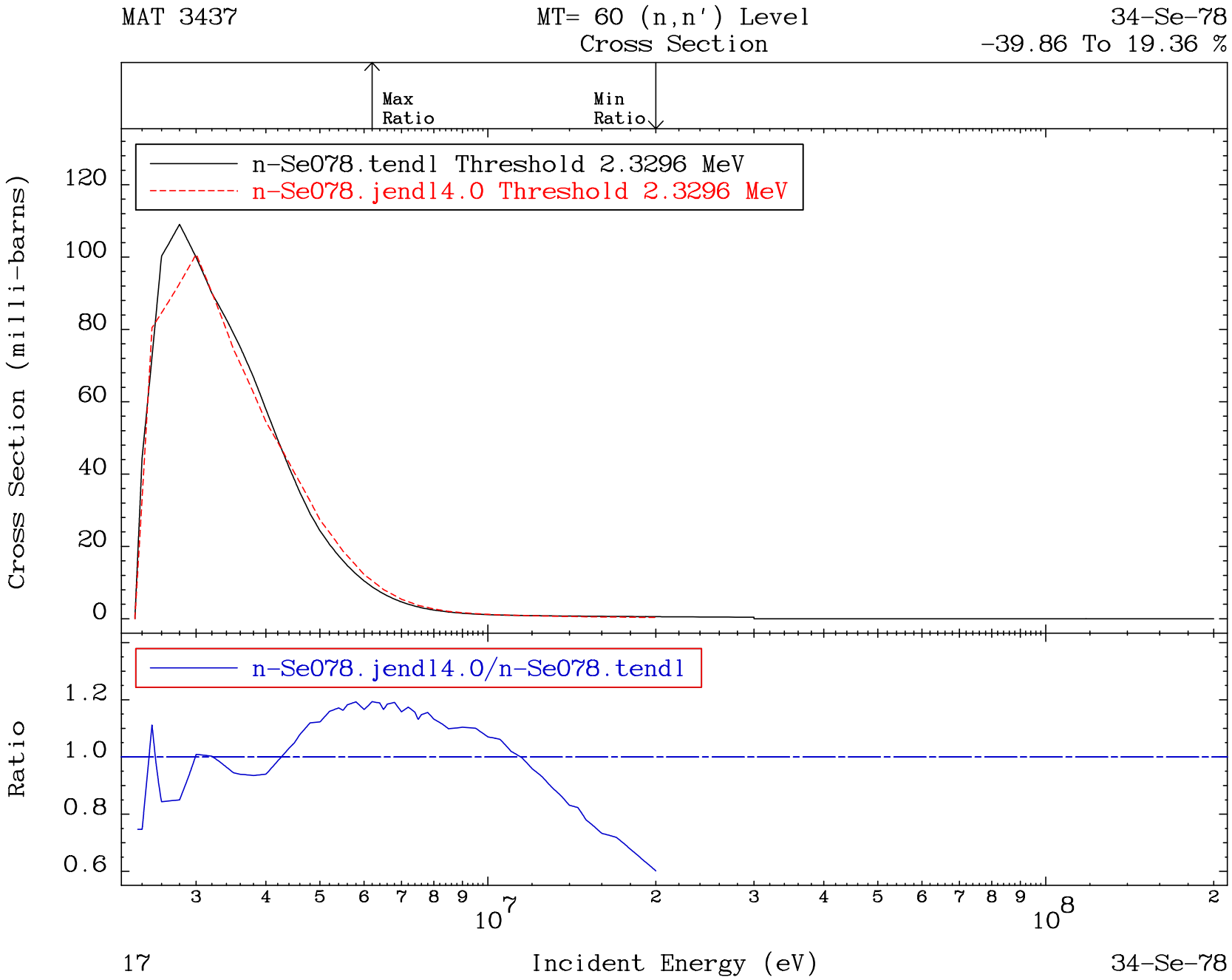

MAT 3437
MT= 55 (n,n') Level
Cross Section
34-Se-78
-18.03 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 1.7815 MeV
n-Se078.jendl4.0 Threshold 1.7815 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
10^4
10^2
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
34-Se-78

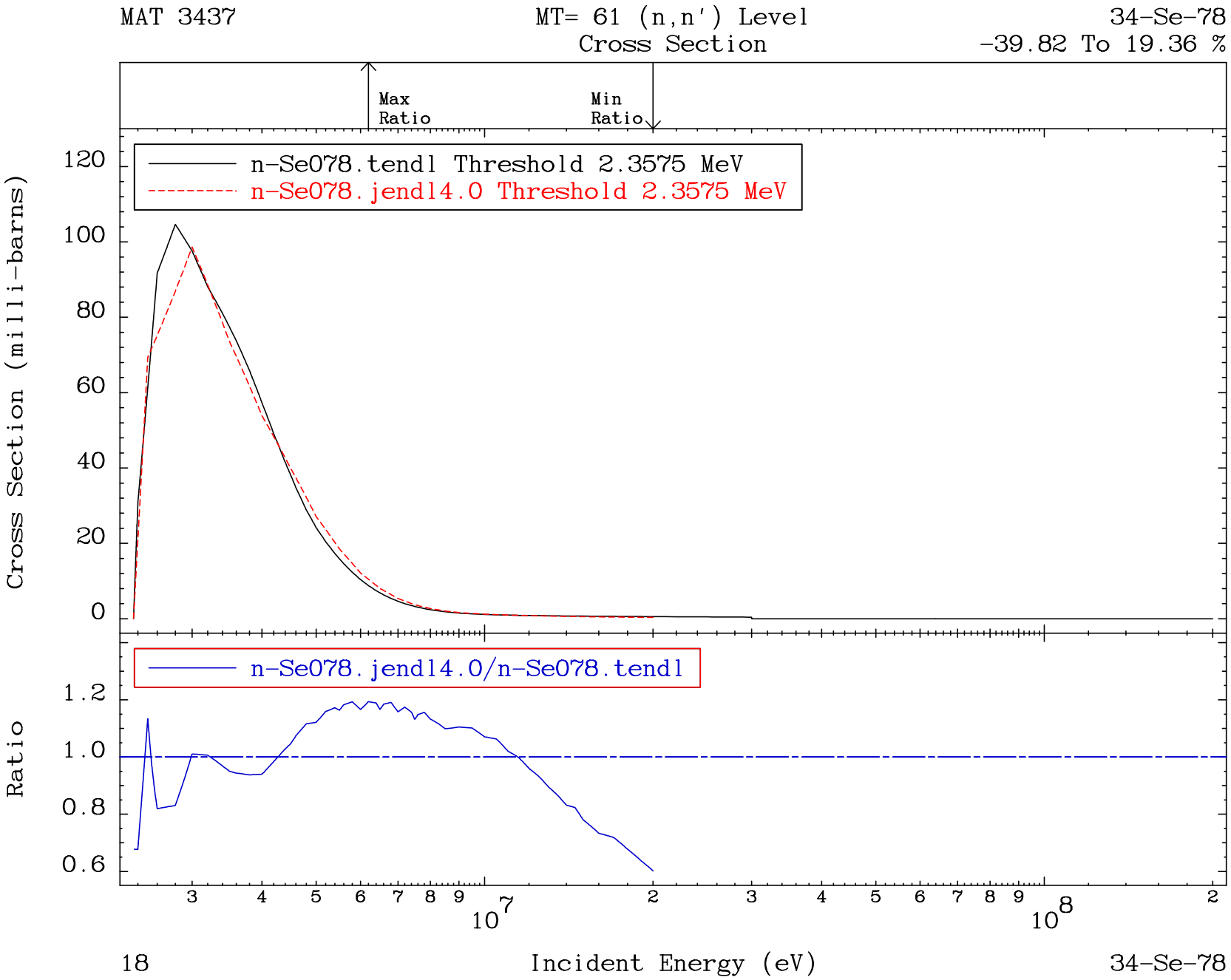

MAT 3437
MT= 56 (n,n') Level
Cross Section
34-Se-78
-28.83 To 9999. %
Min
Ratio
Max
Ratio
n-Se078.tendl Threshold 1.8779 MeV
n-Se078.jendl4.0 Threshold 1.8779 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
10^4
10^2
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
34-Se-78

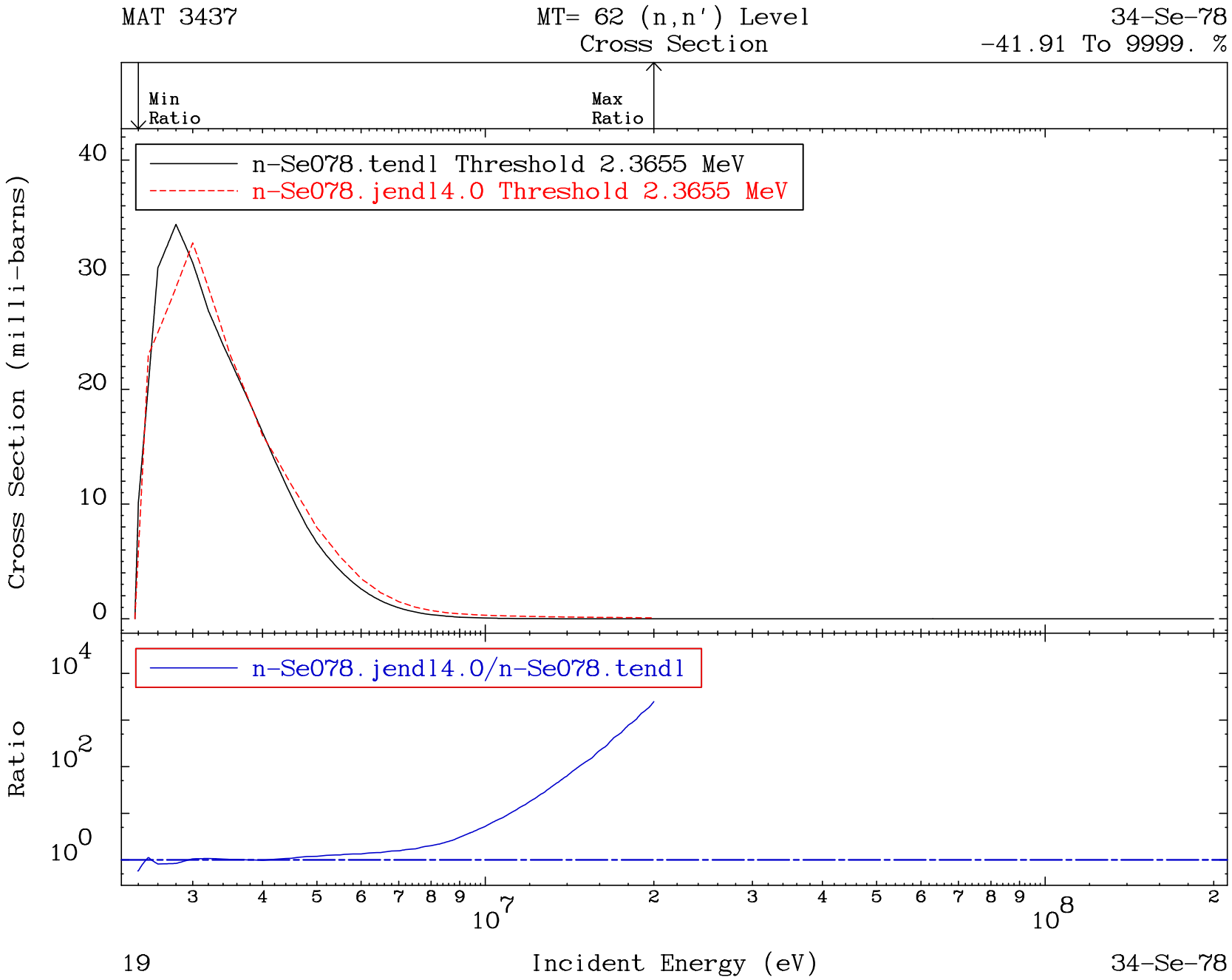

MAT 3437
MT= 57 (n,n') Level
Cross Section
34-Se-78
-44.64 To 19.32 %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 2.0217 MeV
n-Se078.jendl4.0 Threshold 2.0217 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
1.2
1.0
0.8
0.6
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
14
Incident Energy (eV)
34-Se-78

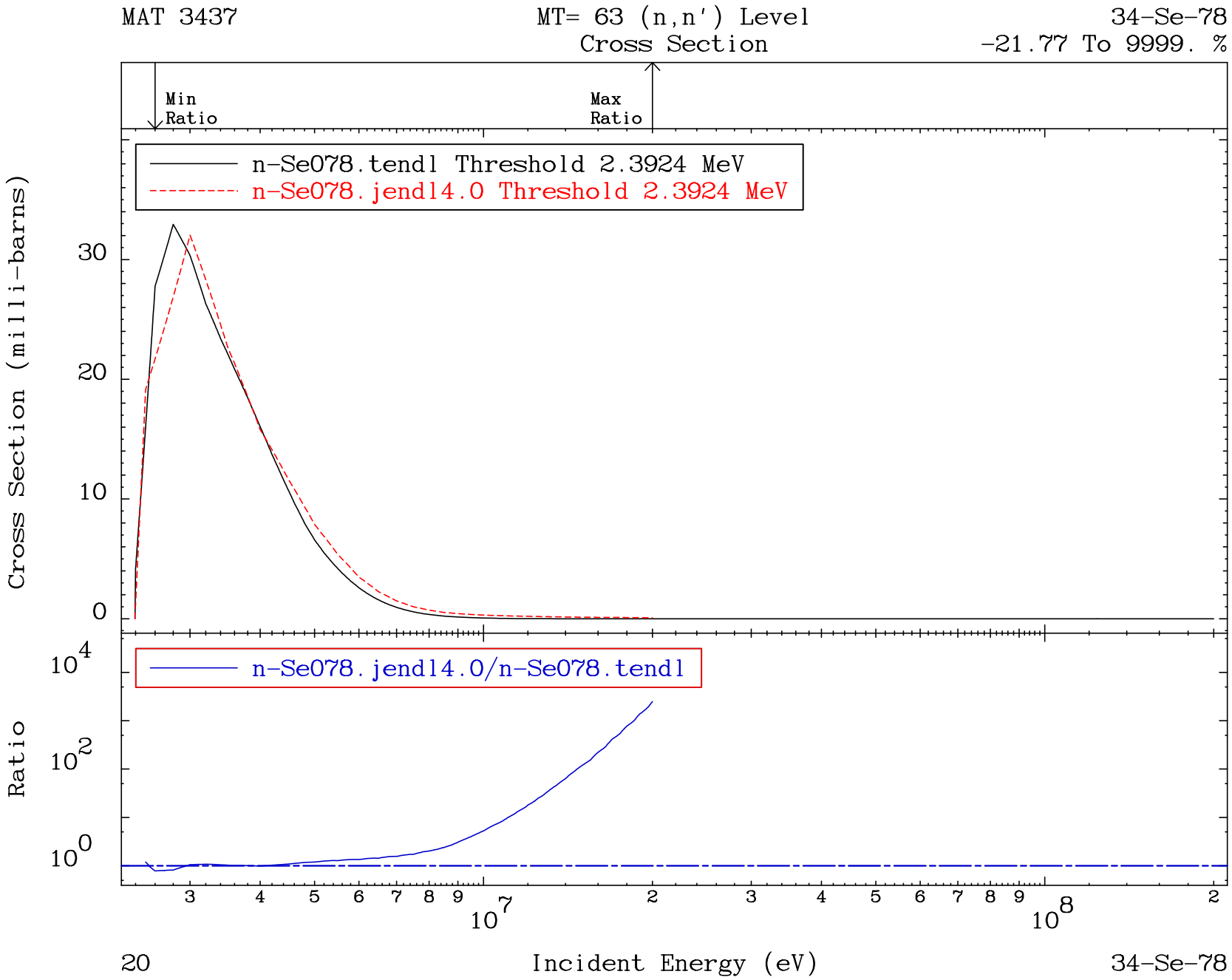

MAT 3437
MT= 58 (n,n') Level
Cross Section
34-Se-78
-13.46 To 96.97 %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 2.2190 MeV
n-Se078.jendl4.0 Threshold 2.2190 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
2.0
1.6
1.2
0.8
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
15
Incident Energy (eV)
34-Se-78

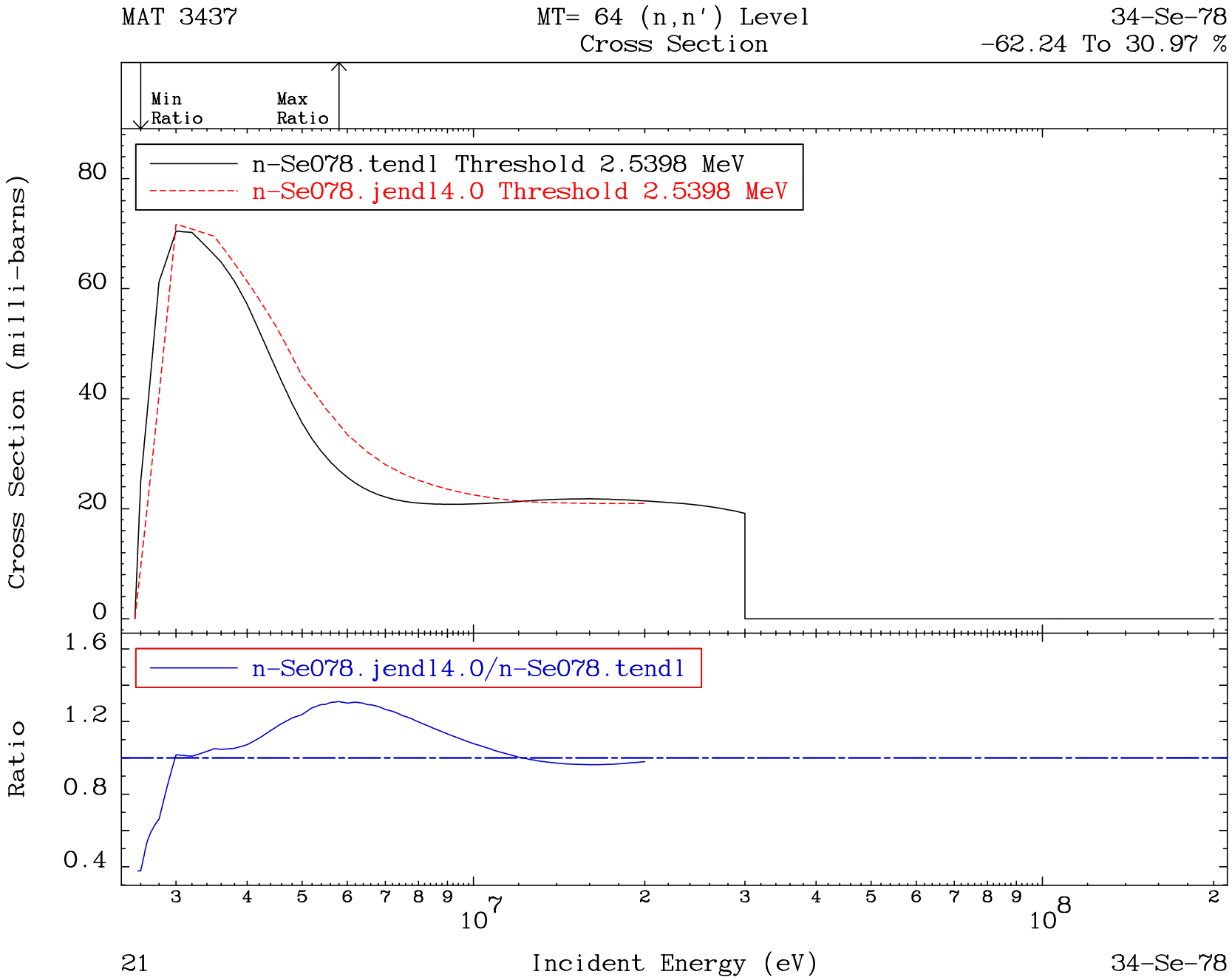

MAT 3437
MT= 59 (n,n') Level
Cross Section
34-Se-78
-22.97 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 2.2964 MeV
n-Se078.jendl4.0 Threshold 2.2964 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
10^4
10^2
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
16
Incident Energy (eV)
34-Se-78

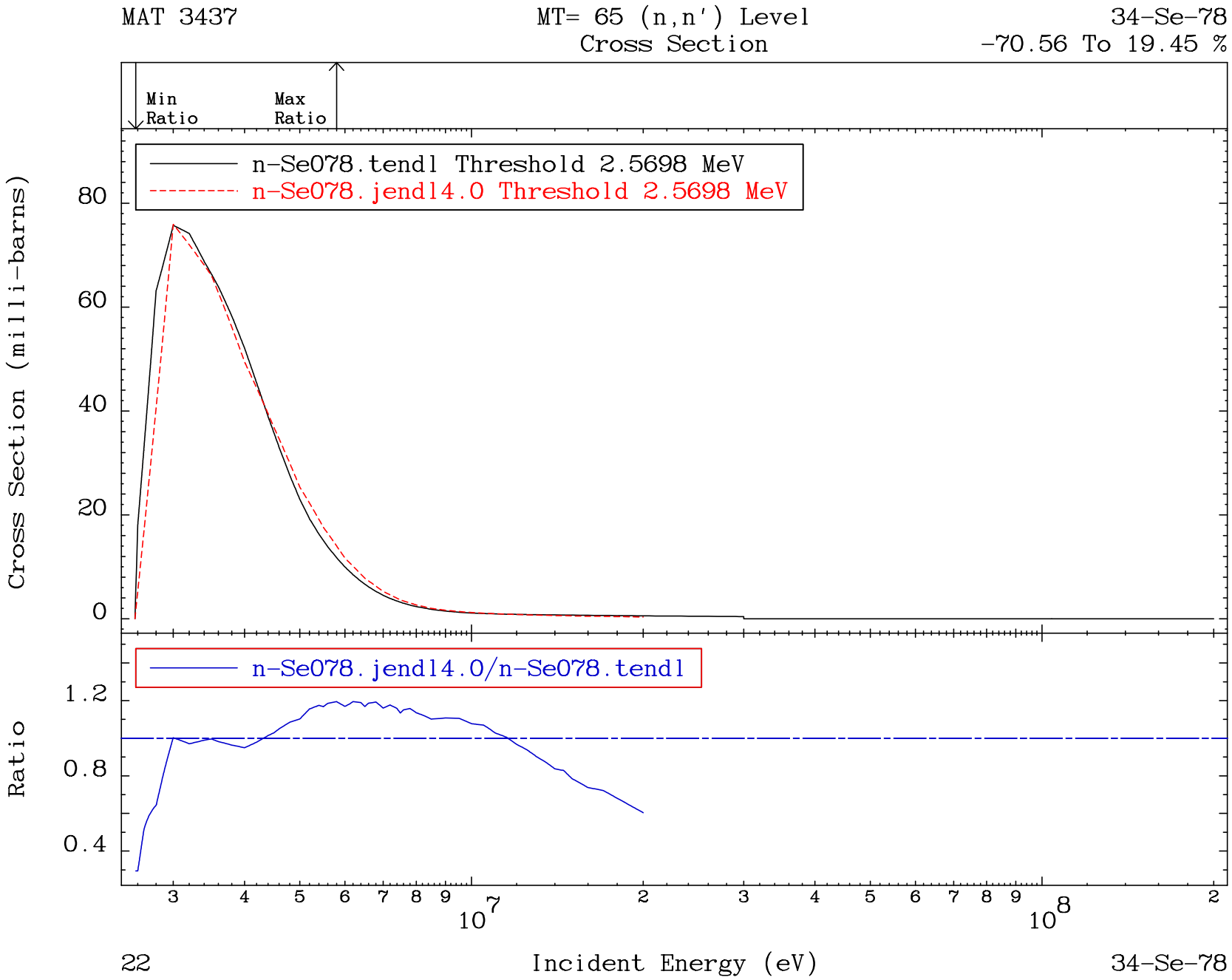

MAT 3437
MT= 60 (n,n') Level
Cross Section
34-Se-78
-39.86 To 19.36 %
Max Ratio
Min Ratio
n-Se078.tendl Threshold 2.3296 MeV
n-Se078.jendl4.0 Threshold 2.3296 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
1.2
1.0
0.8
0.6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
17
Incident Energy (eV)
34-Se-78

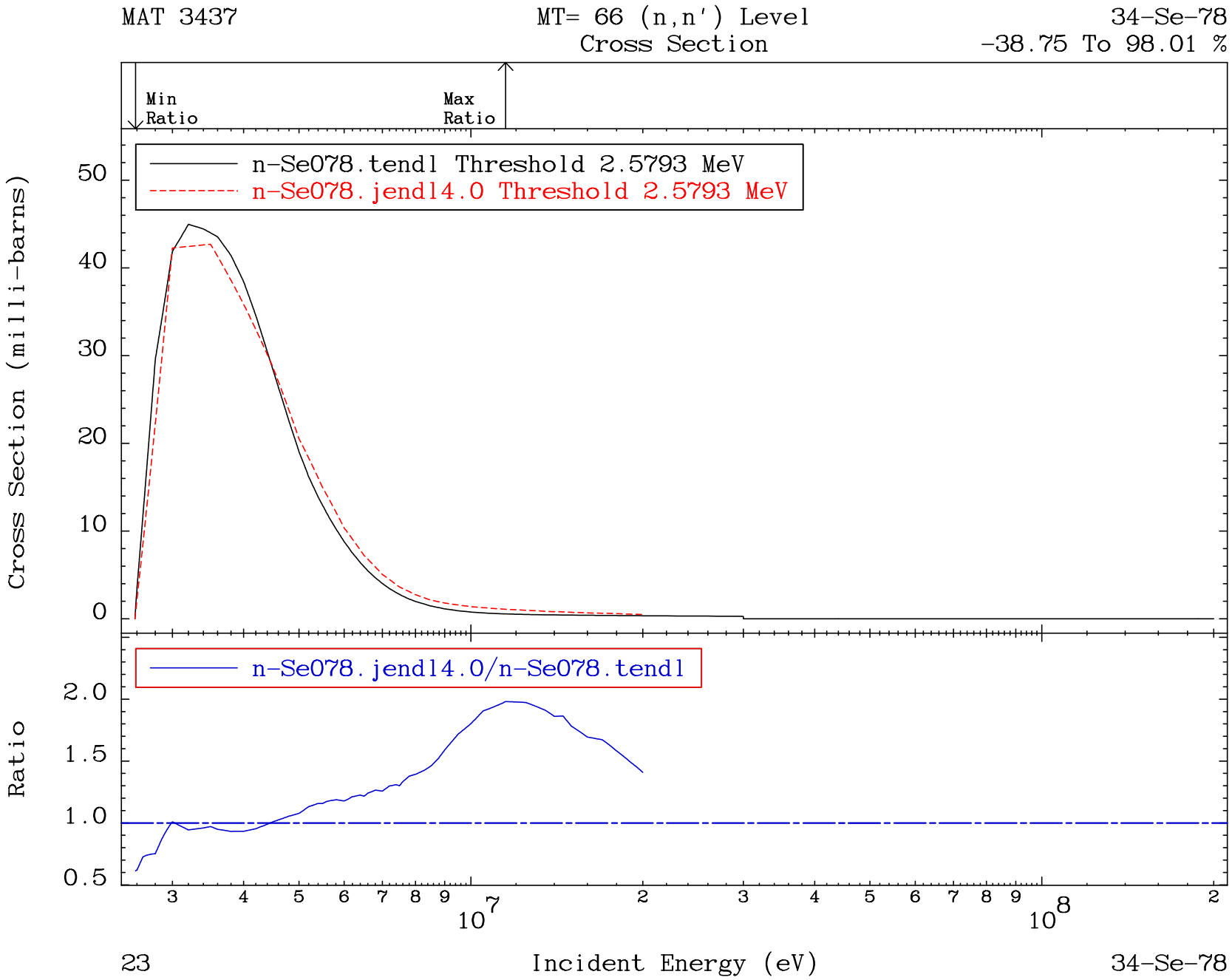

MAT 3437
MT= 61 (n,n') Level
Cross Section
34-Se-78
-39.82 To 19.36 %
Max Ratio
Min Ratio
n-Se078.tendl Threshold 2.3575 MeV
n-Se078.jendl4.0 Threshold 2.3575 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
1.2
1.0
0.8
0.6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
18
Incident Energy (eV)
34-Se-78

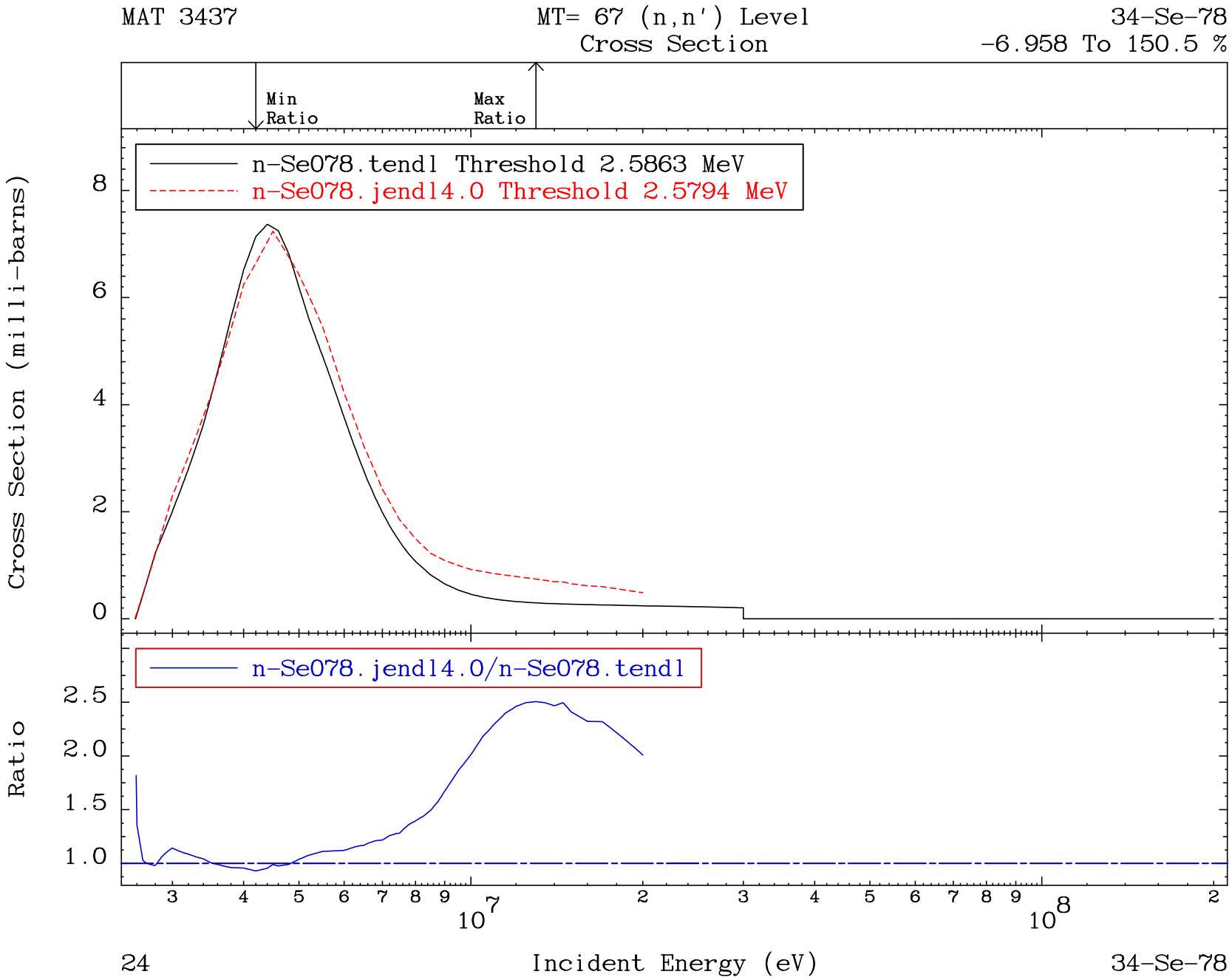

MAT 3437
MT= 62 (n,n') Level
Cross Section
34-Se-78
-41.91 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 2.3655 MeV
n-Se078.jendl4.0 Threshold 2.3655 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
10^4
10^2
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
34-Se-78

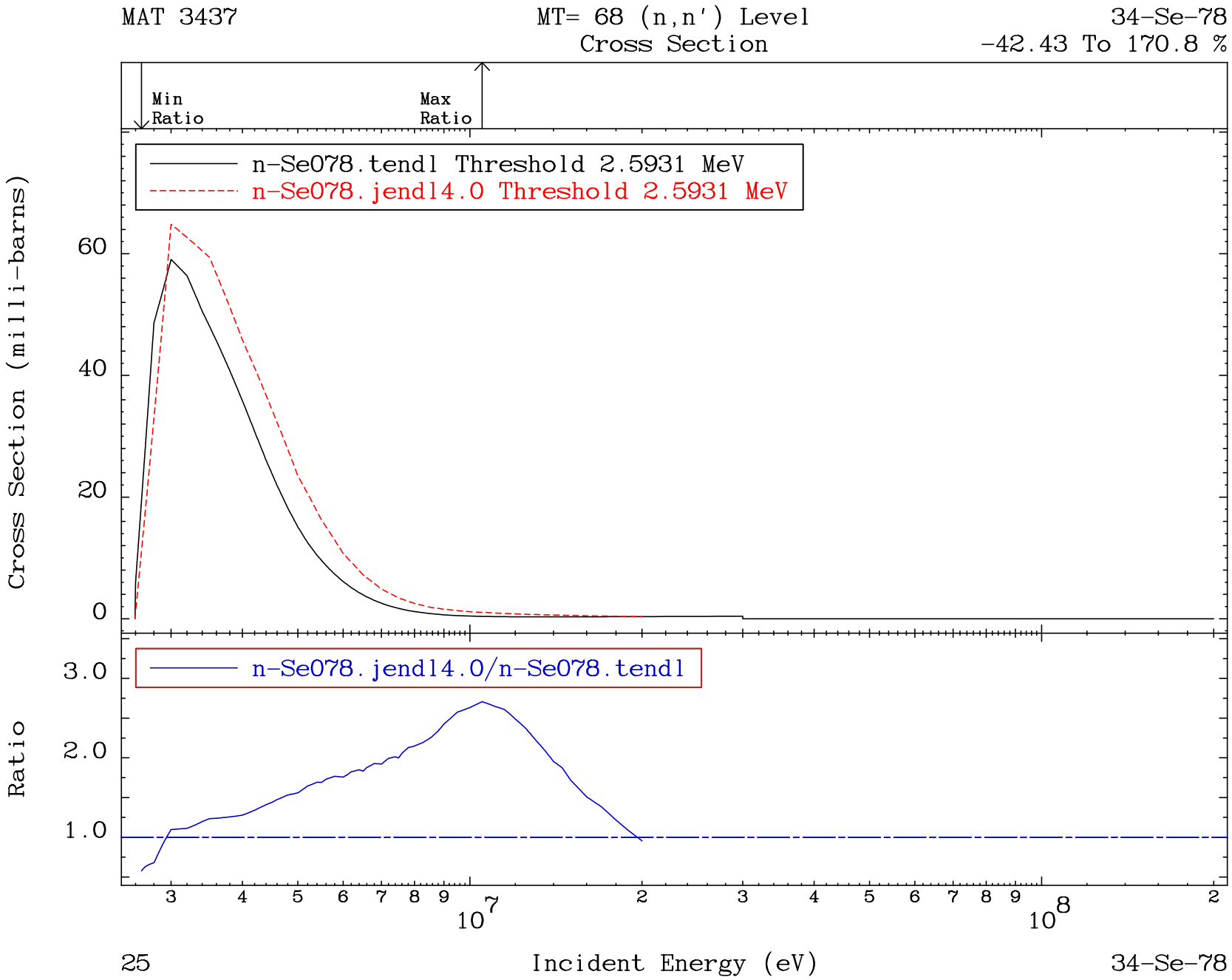

MAT 3437
MT= 63 (n,n') Level
Cross Section
34-Se-78
-21.77 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 2.3924 MeV
n-Se078.jendl4.0 Threshold 2.3924 MeV
Cross Section (milli-barns)
30
20
10
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
10^4
10^2
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
20
Incident Energy (eV)
34-Se-78

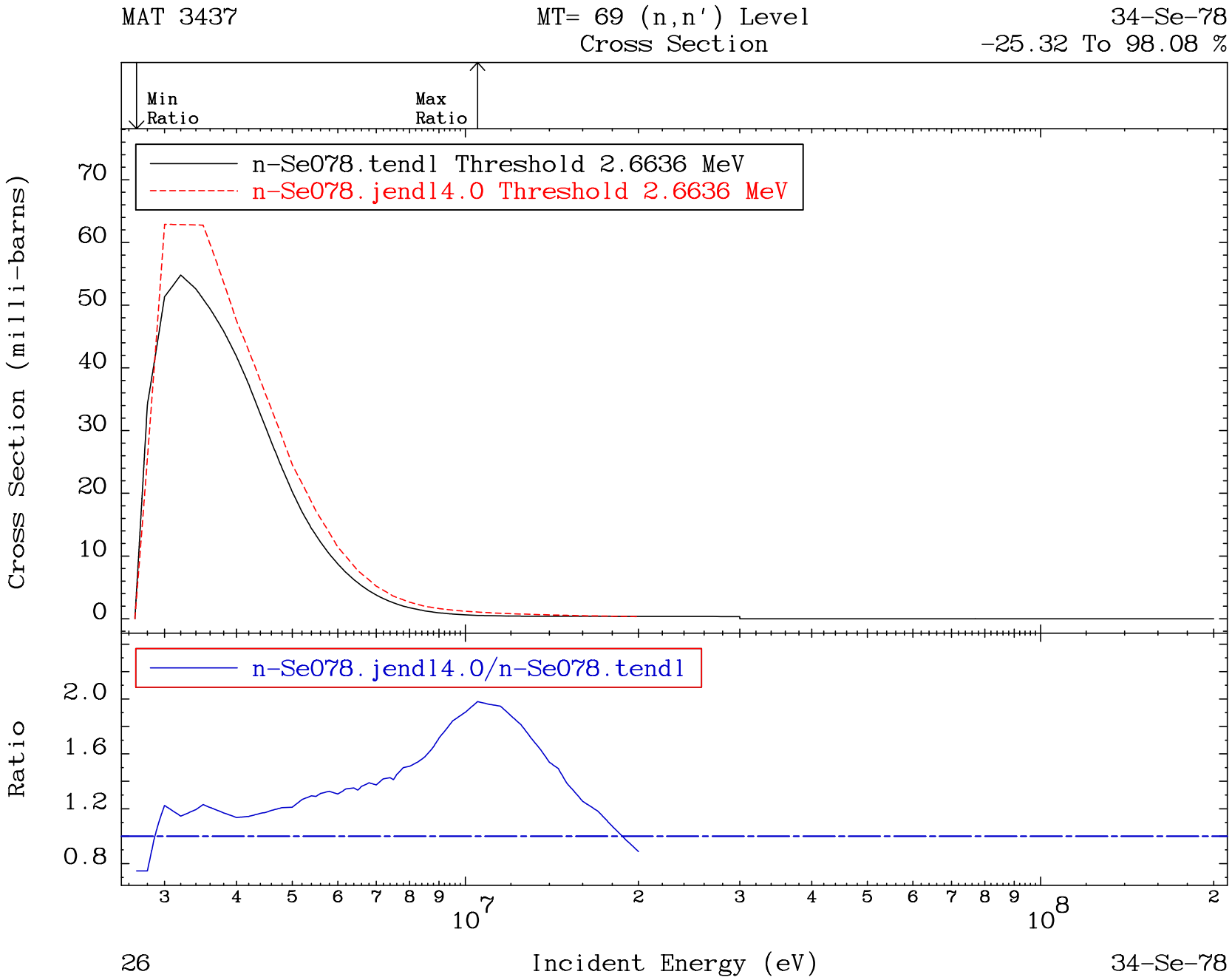

MAT 3437
MT= 64 (n,n') Level
Cross Section
34-Se-78
-62.24 To 30.97 %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 2.5398 MeV
n-Se078.jendl4.0 Threshold 2.5398 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
1.6
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
21
Incident Energy (eV)
34-Se-78

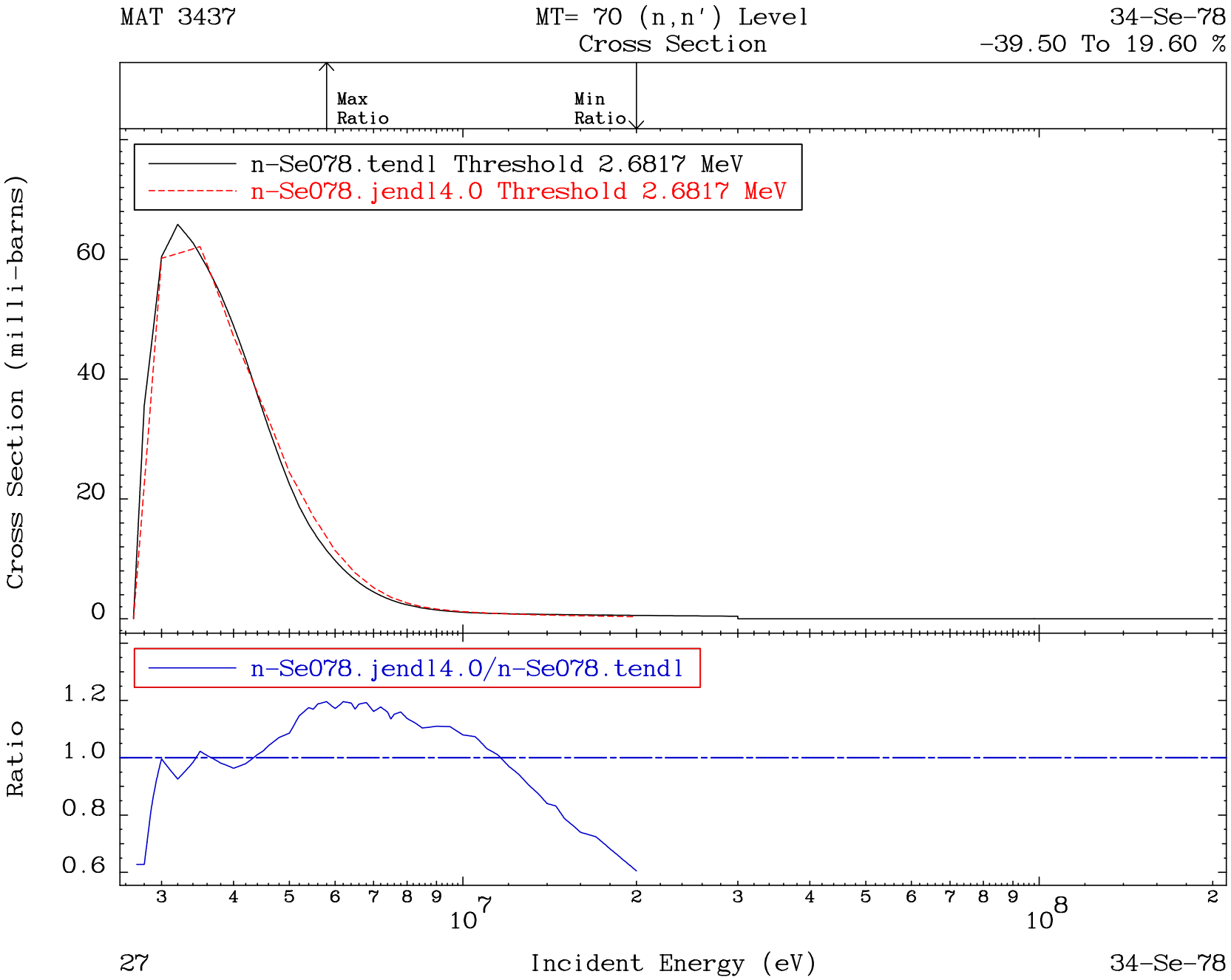

MAT 3437
MT= 65 (n,n') Level
Cross Section
34-Se-78
-70.56 To 19.45 %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 2.5698 MeV
n-Se078.jendl4.0 Threshold 2.5698 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
34-Se-78

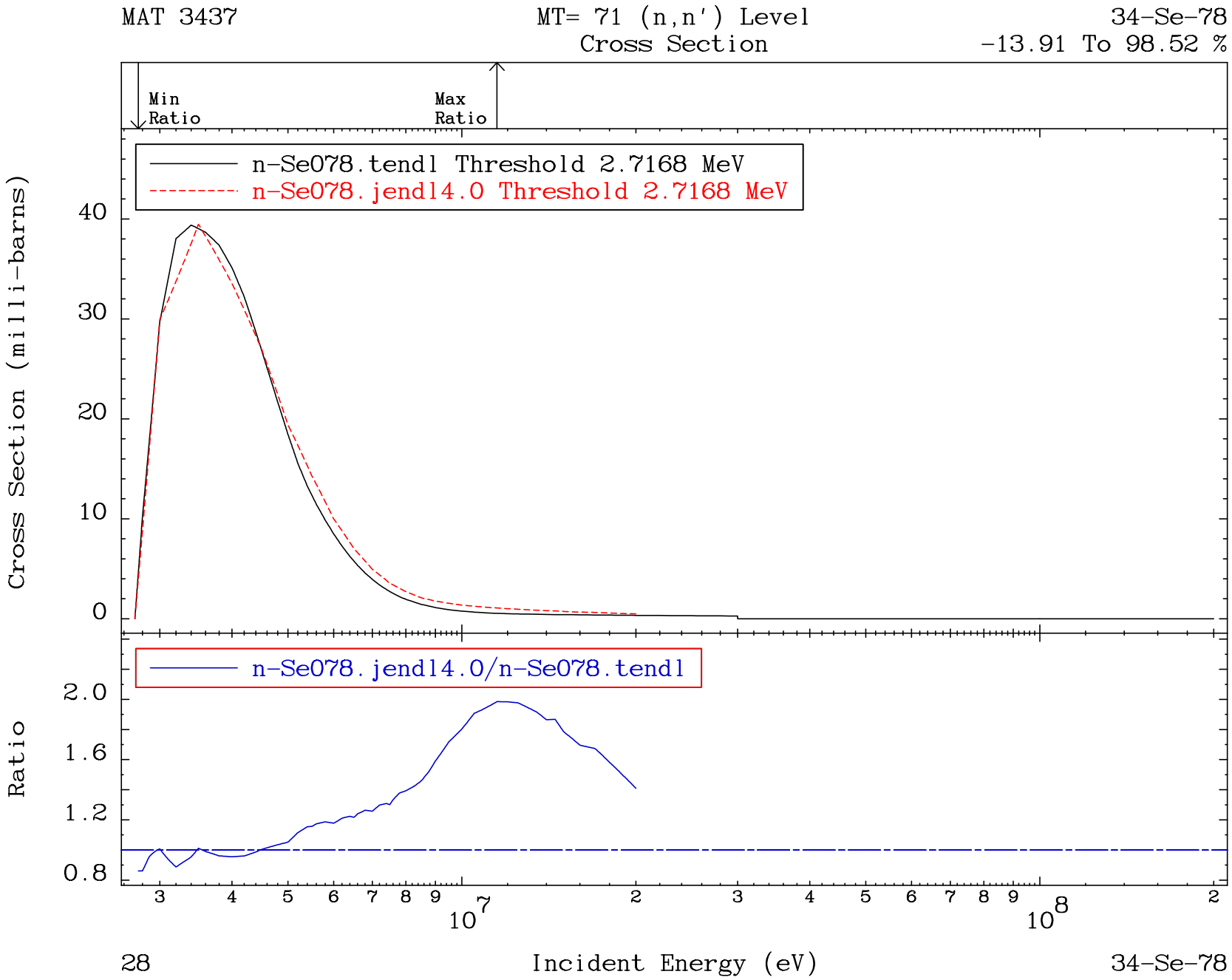

MAT 3437
MT= 66 (n,n') Level
Cross Section
34-Se-78
-38.75 To 98.01 %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 2.5793 MeV
n-Se078.jendl4.0 Threshold 2.5793 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
2.0
1.5
1.0
0.5
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
34-Se-78

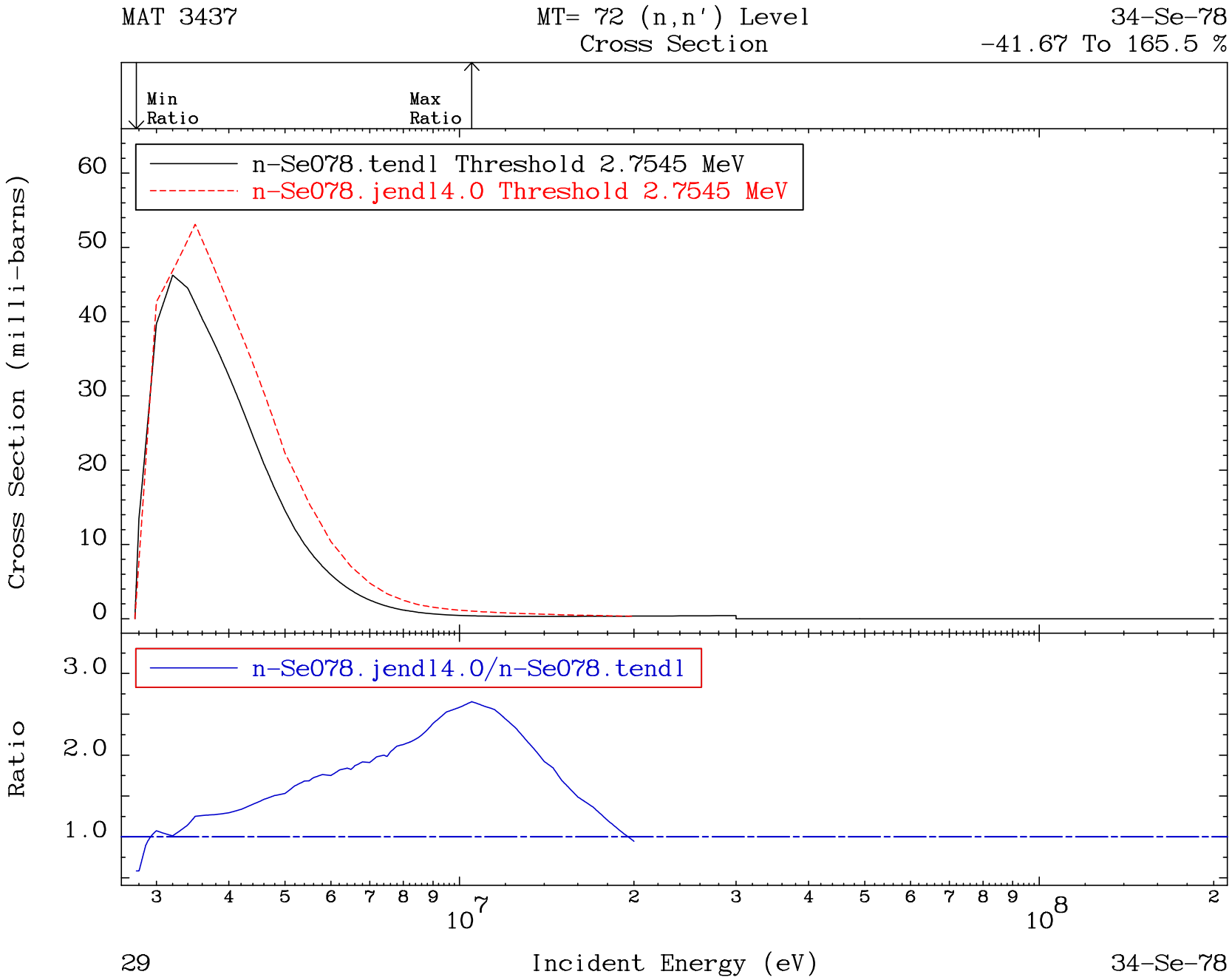

MAT 3437
MT= 67 (n,n') Level
Cross Section
34-Se-78
-6.958 To 150.5 %
Min
Ratio
Max
Ratio
n-Se078.tendl Threshold 2.5863 MeV
n-Se078.jendl4.0 Threshold 2.5794 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Se078.jendl4.0/n-Se078.tendl
Ratio
1.0
1.5
2.0
2.5
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
24
Incident Energy (eV)
34-Se-78

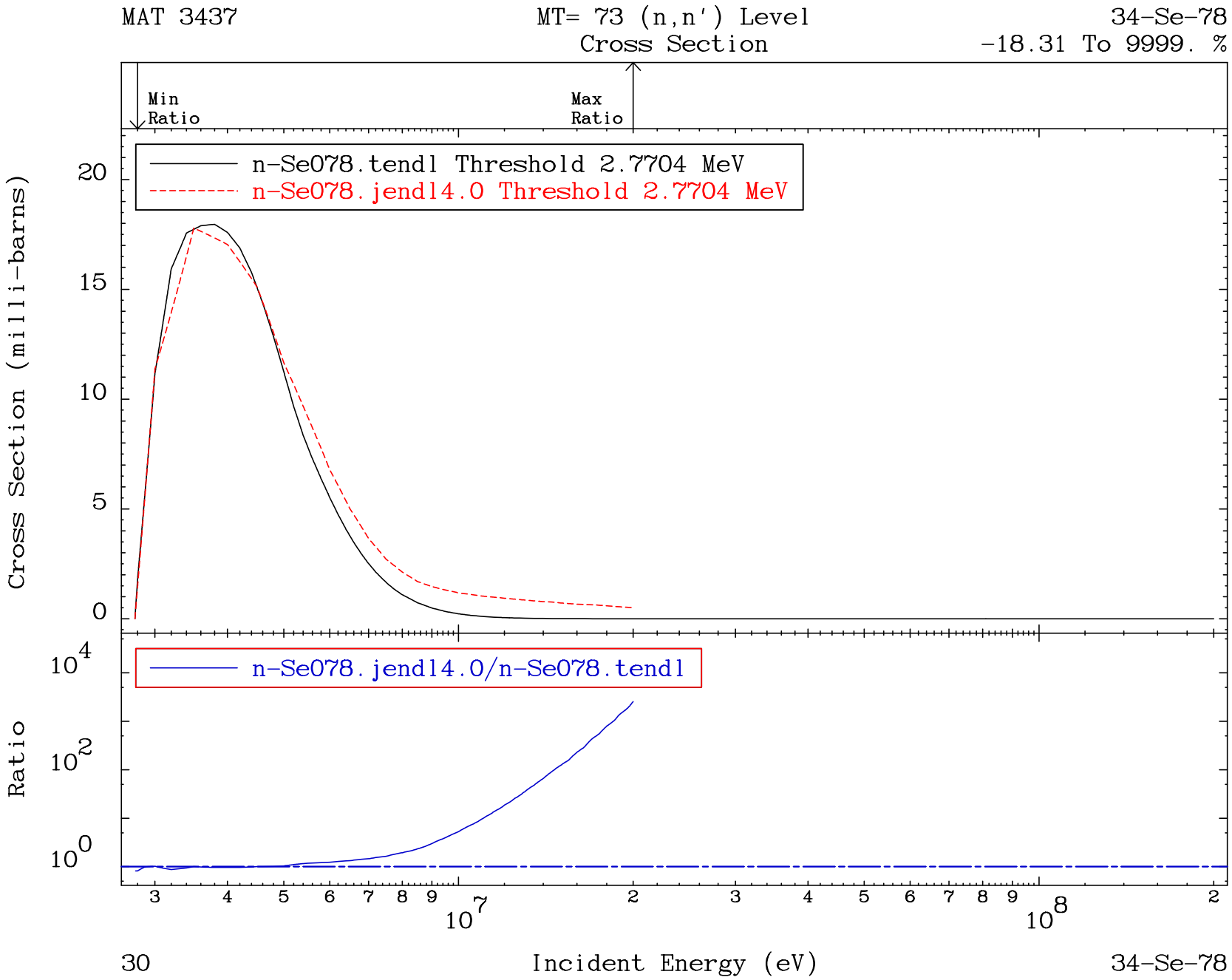

MAT 3437
MT= 68 (n,n') Level
Cross Section
34-Se-78
-42.43 To 170.8 %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 2.5931 MeV
n-Se078.jendl4.0 Threshold 2.5931 MeV
Cross Section (milli-barns)
60
40
20
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
3.0
2.0
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
25
Incident Energy (eV)
34-Se-78

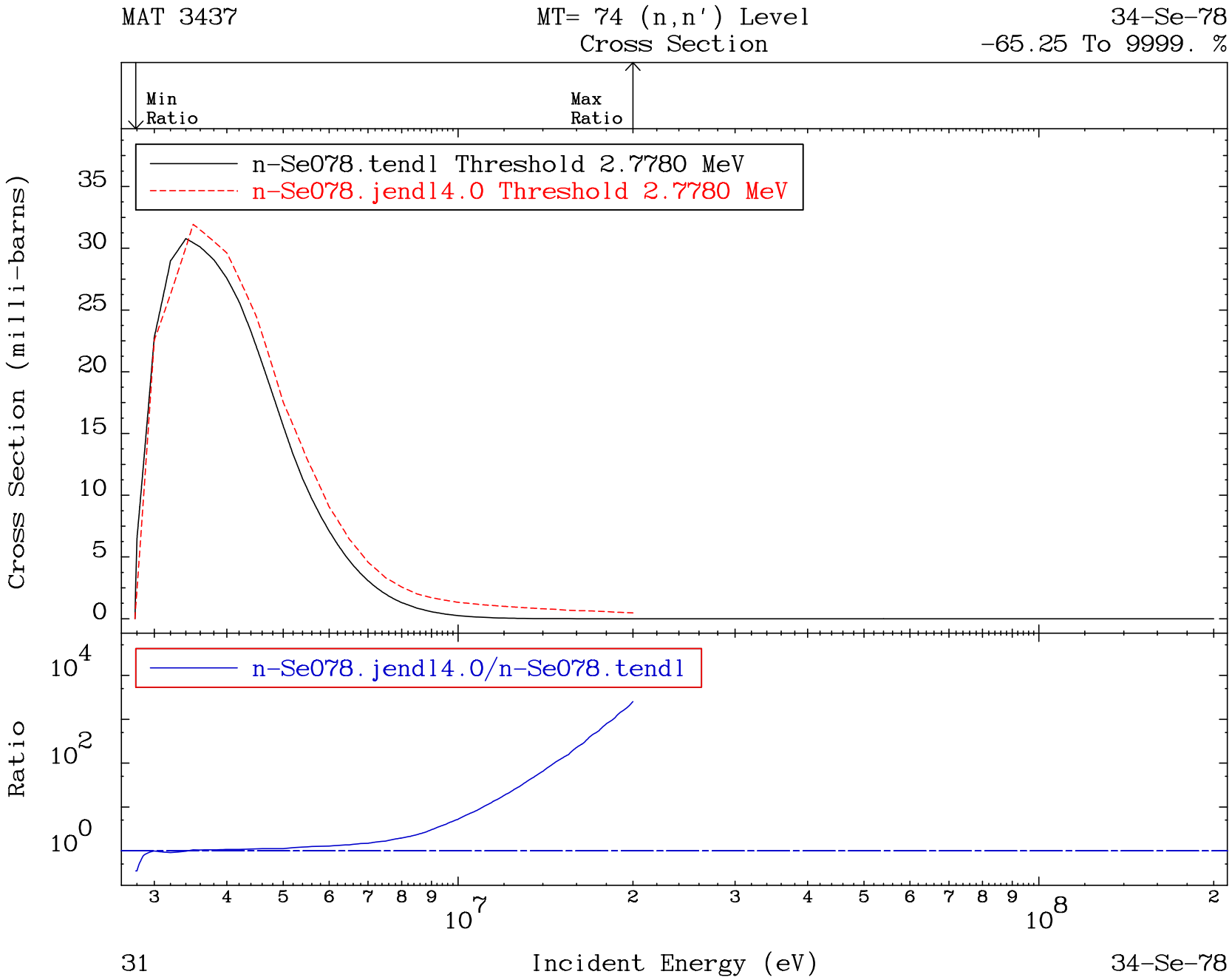

MAT 3437
MT= 69 (n,n') Level
Cross Section
34-Se-78
-25.32 To 98.08 %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 2.6636 MeV
n-Se078.jendl4.0 Threshold 2.6636 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
2.0
1.6
1.2
0.8
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
34-Se-78

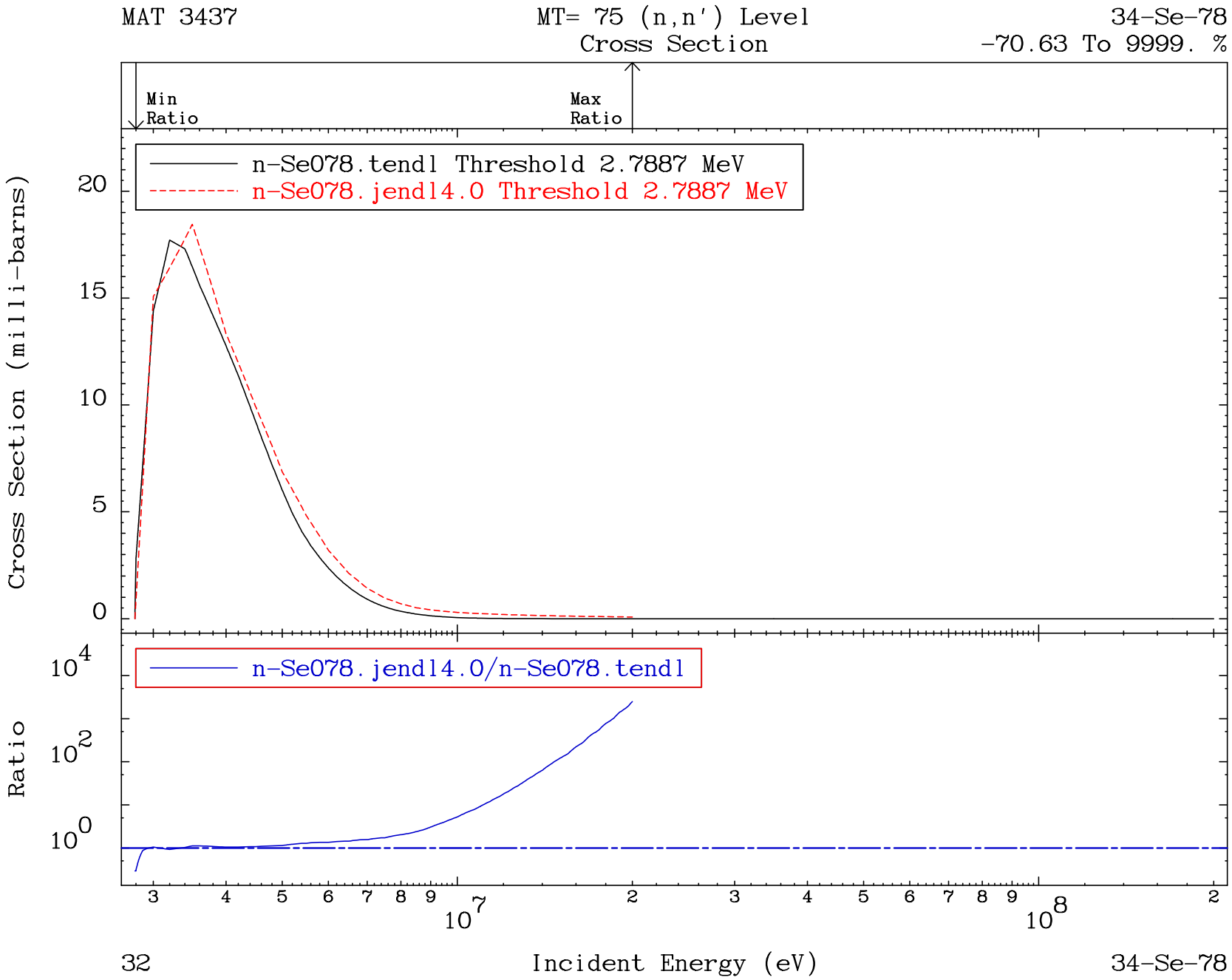

MAT 3437
MT= 70 (n,n') Level
Cross Section
34-Se-78
-39.50 To 19.60 %
Max Ratio
Min Ratio
n-Se078.tendl Threshold 2.6817 MeV
n-Se078.jendl4.0 Threshold 2.6817 MeV
Cross Section (milli-barns)
60
40
20
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
1.2
1.0
0.8
0.6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
34-Se-78

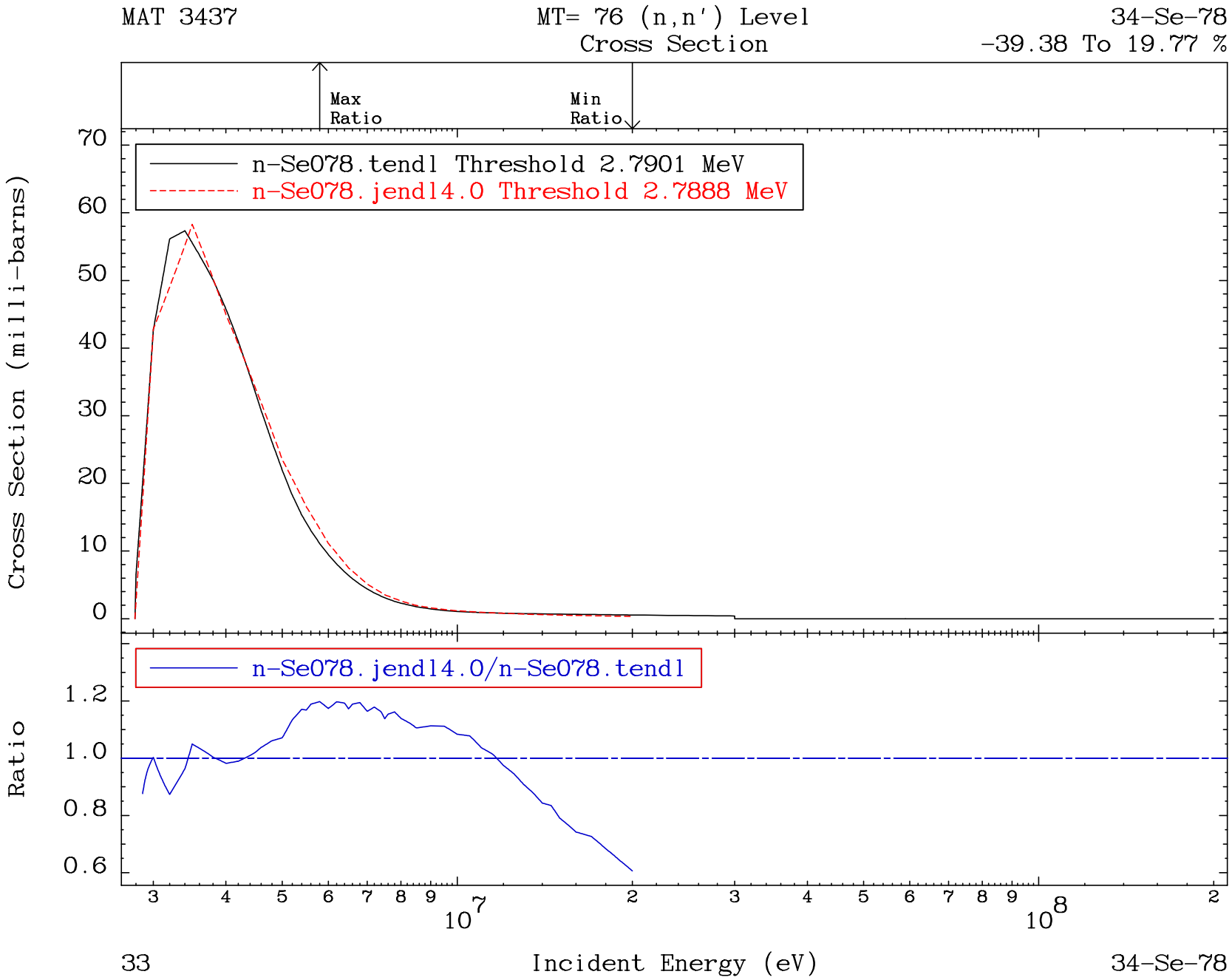

MAT 3437
MT= 71 (n,n') Level
Cross Section
34-Se-78
-13.91 To 98.52 %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 2.7168 MeV
n-Se078.jendl4.0 Threshold 2.7168 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
2.0
1.6
1.2
0.8
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
34-Se-78

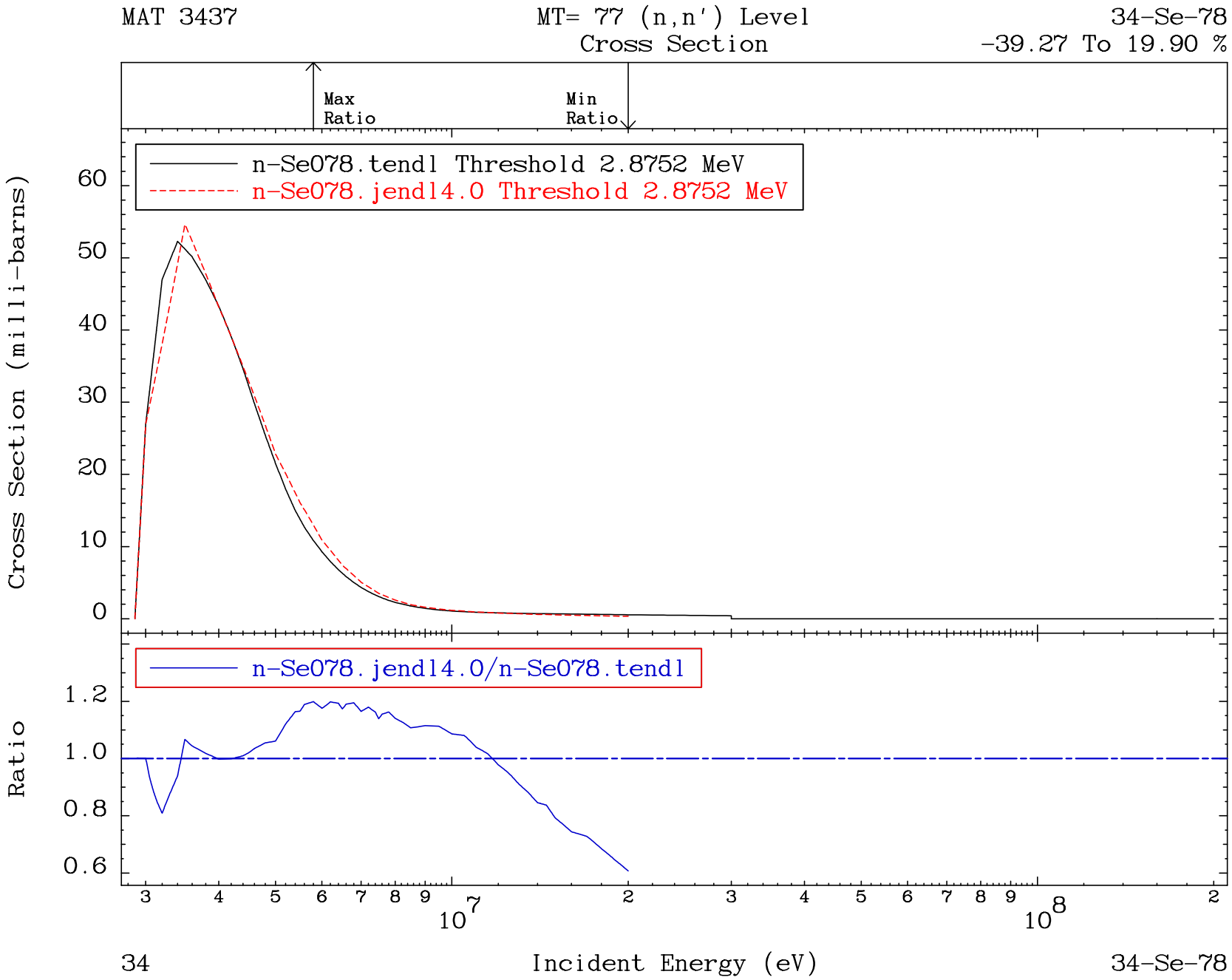

MAT 3437
MT= 72 (n,n') Level
Cross Section
34-Se-78
-41.67 To 165.5 %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 2.7545 MeV
n-Se078.jendl4.0 Threshold 2.7545 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
3.0
2.0
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
34-Se-78

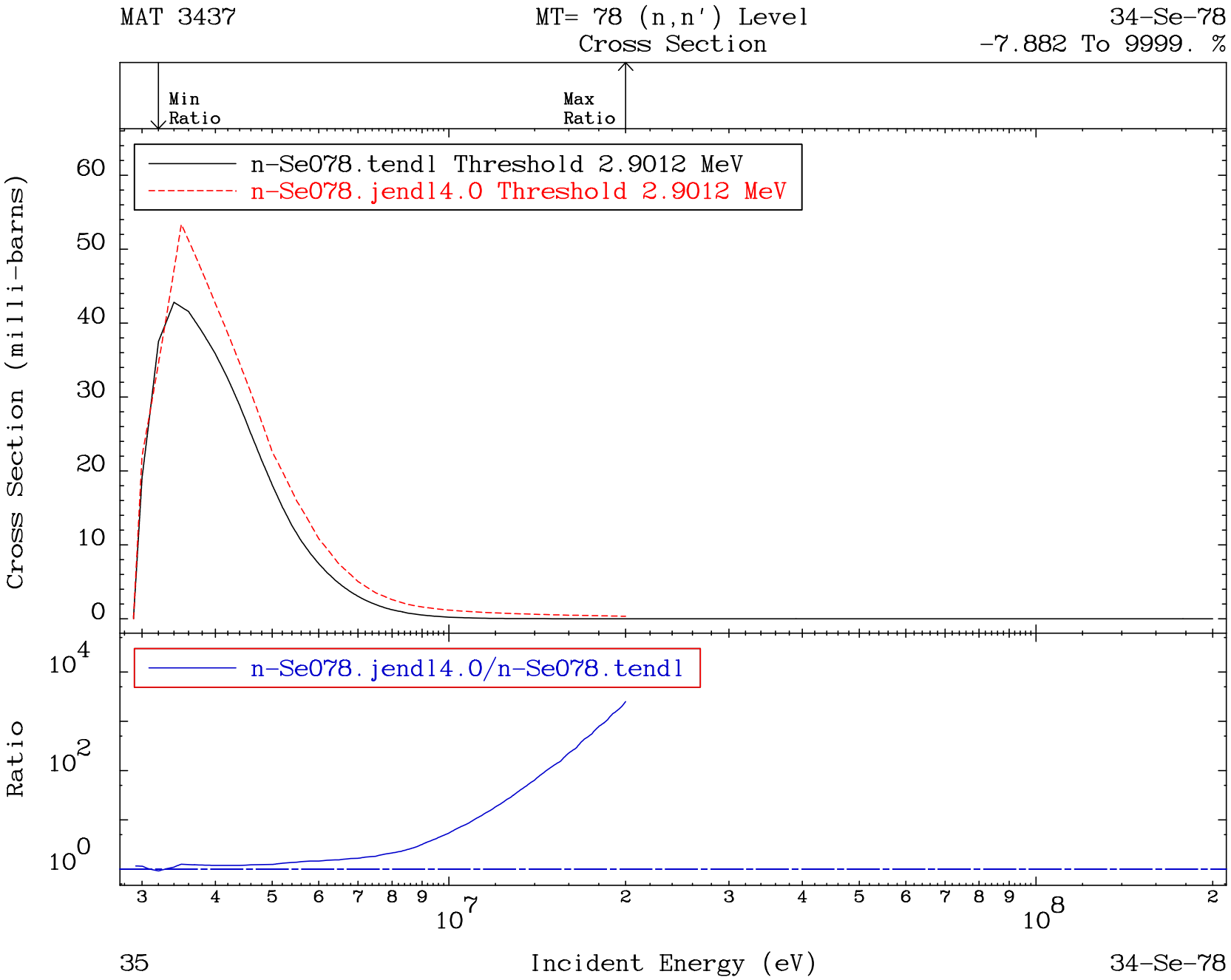

MAT 3437
MT= 73 (n,n') Level
Cross Section
34-Se-78
-18.31 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 2.7704 MeV
n-Se078.jendl4.0 Threshold 2.7704 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
10^4
10^2
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
30
Incident Energy (eV)
34-Se-78

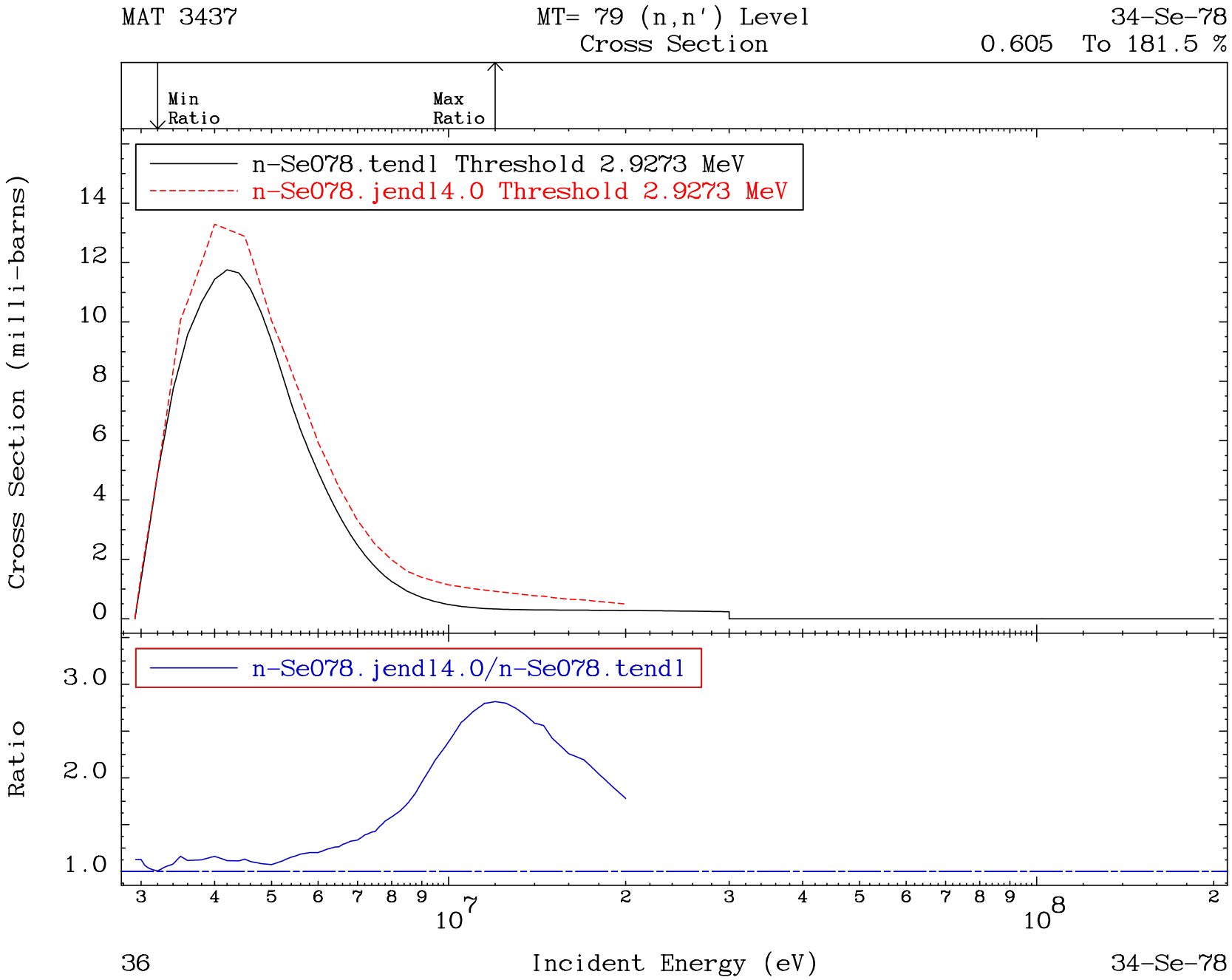

MAT 3437
MT= 74 (n,n') Level
Cross Section
34-Se-78
-65.25 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 2.7780 MeV
n-Se078.jendl4.0 Threshold 2.7780 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
10^4
10^2
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
31
Incident Energy (eV)
34-Se-78

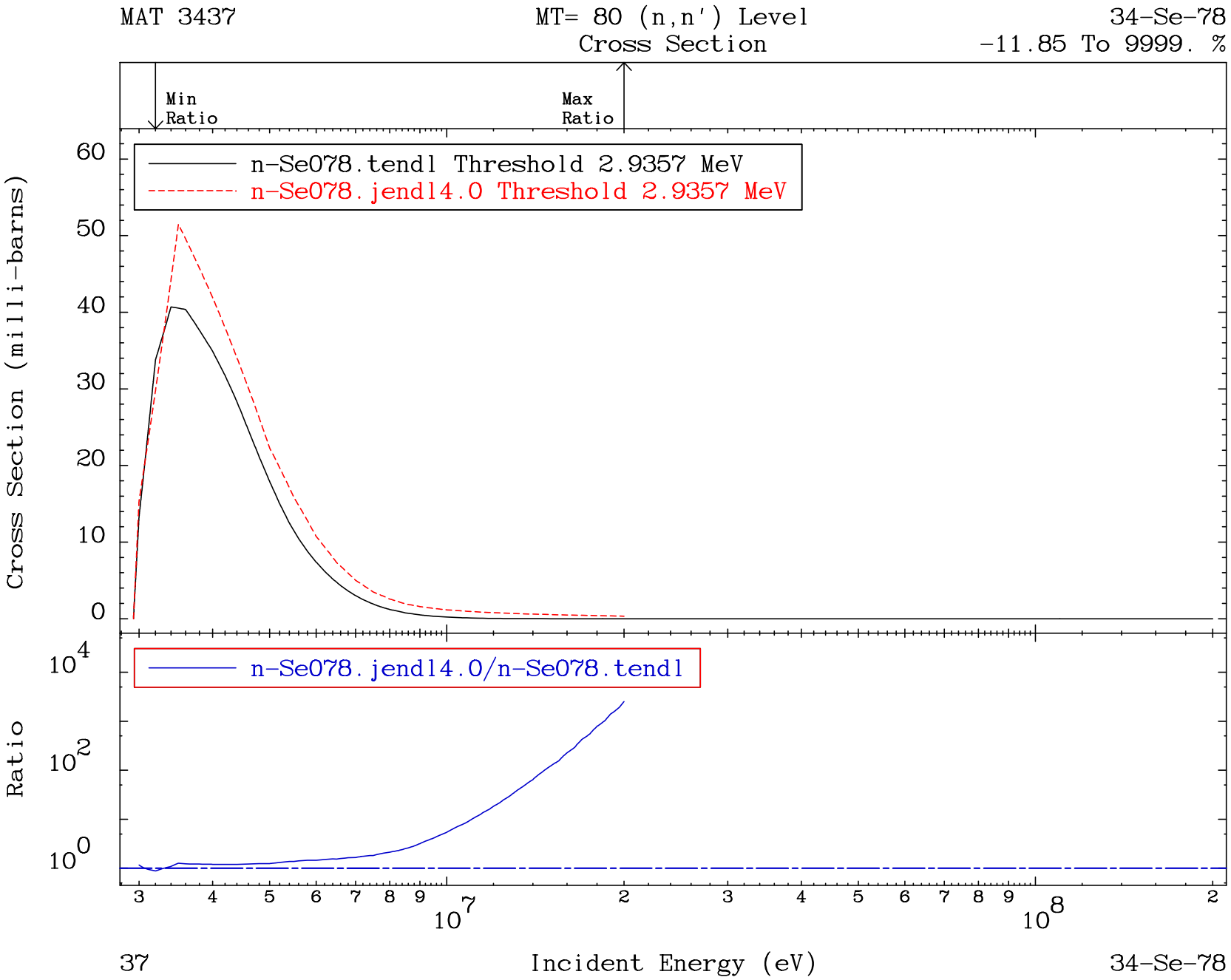

MAT 3437
MT= 75 (n,n') Level
Cross Section
34-Se-78
-70.63 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 2.7887 MeV
n-Se078.jendl4.0 Threshold 2.7887 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
10^4
10^2
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
34-Se-78

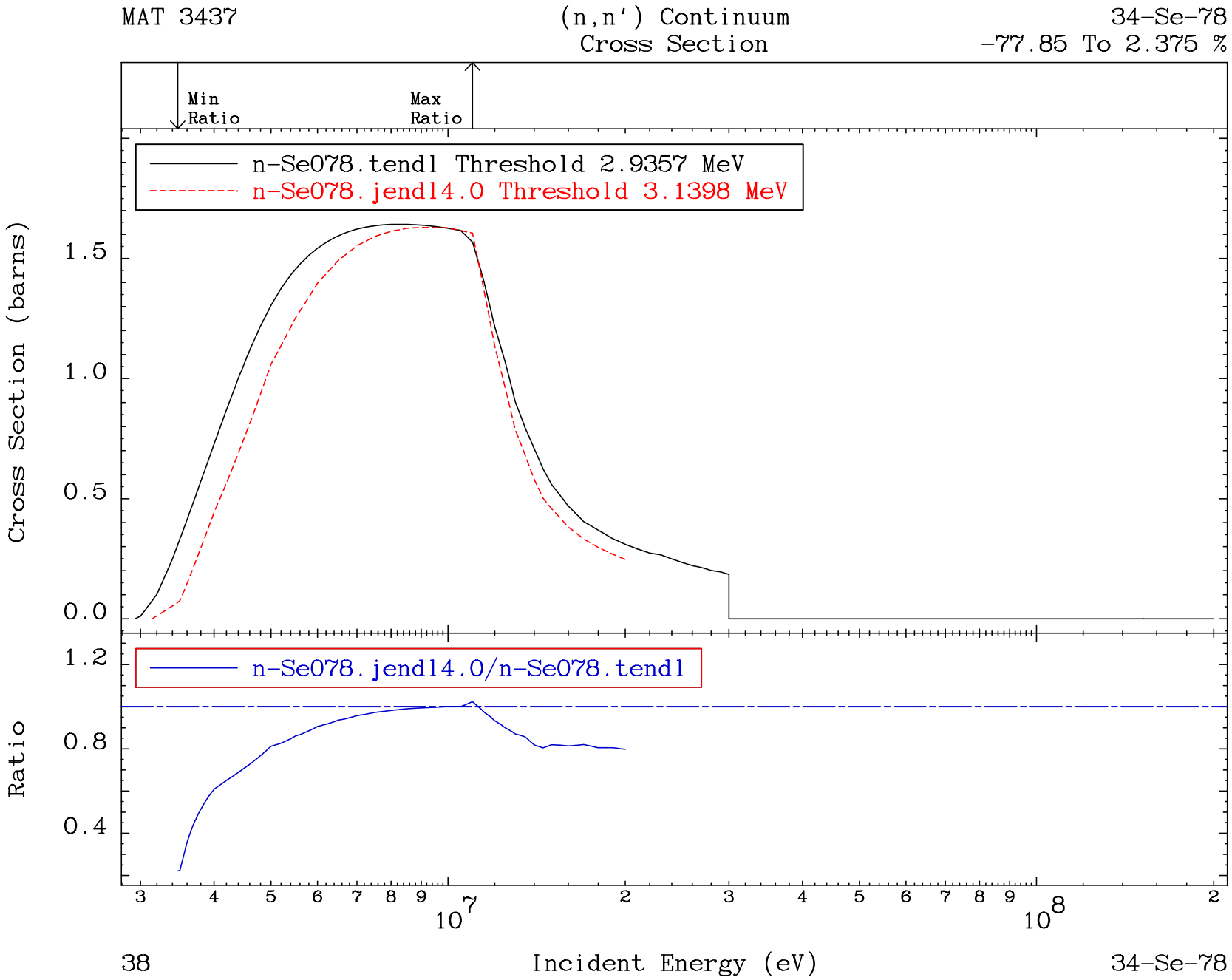

MAT 3437
MT= 76 (n,n') Level
Cross Section
34-Se-78
-39.38 To 19.77 %
Max
Ratio
Min
Ratio
n-Se078.tendl Threshold 2.7901 MeV
n-Se078.jendl4.0 Threshold 2.7888 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
1.2
1.0
0.8
0.6
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
33
Incident Energy (eV)
34-Se-78

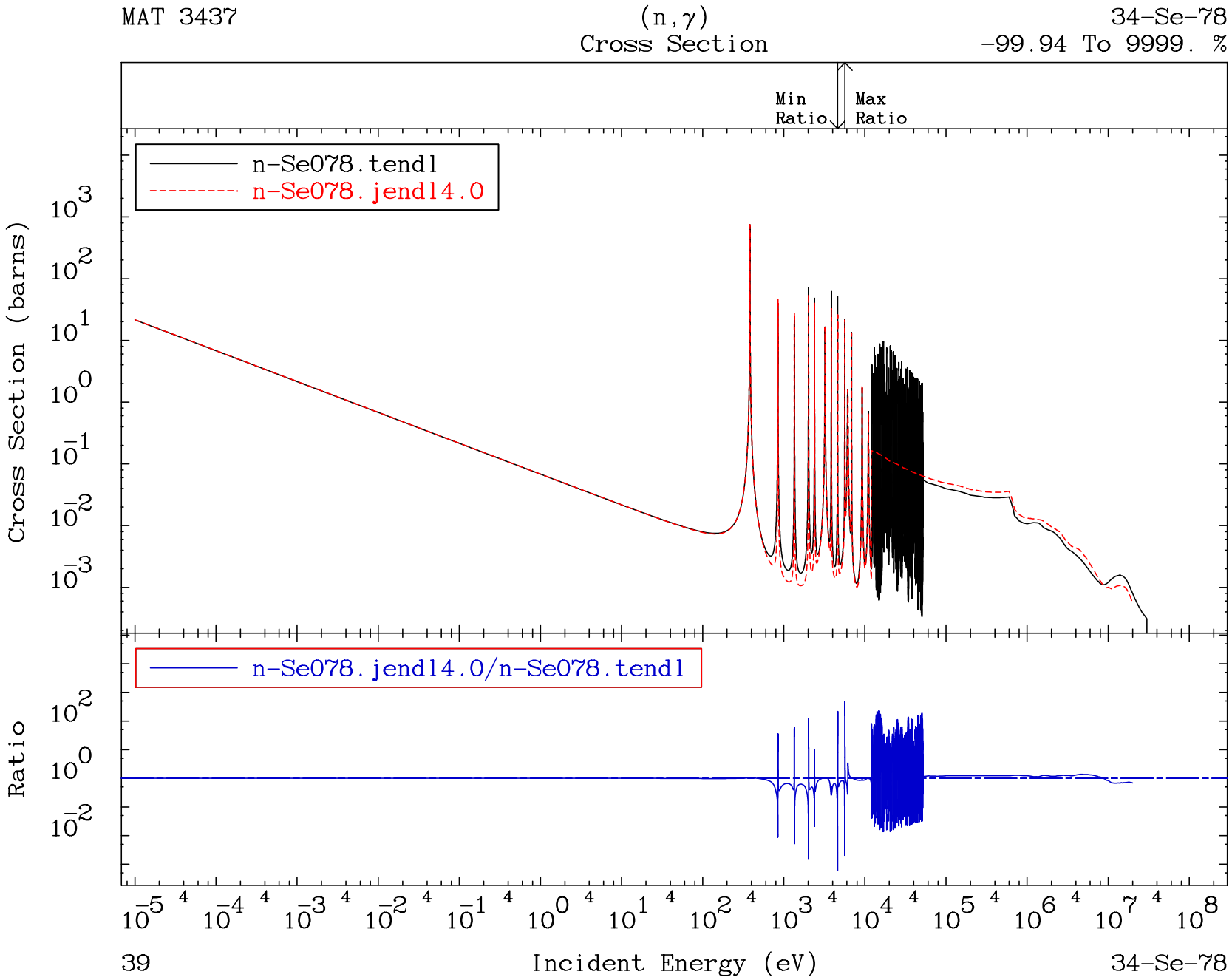

MAT 3437
MT= 77 (n,n') Level
Cross Section
34-Se-78
-39.27 To 19.90 %
Max Ratio
Min Ratio
n-Se078.tendl Threshold 2.8752 MeV
n-Se078.jendl4.0 Threshold 2.8752 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
1.2
1.0
0.8
0.6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
34
Incident Energy (eV)
34-Se-78

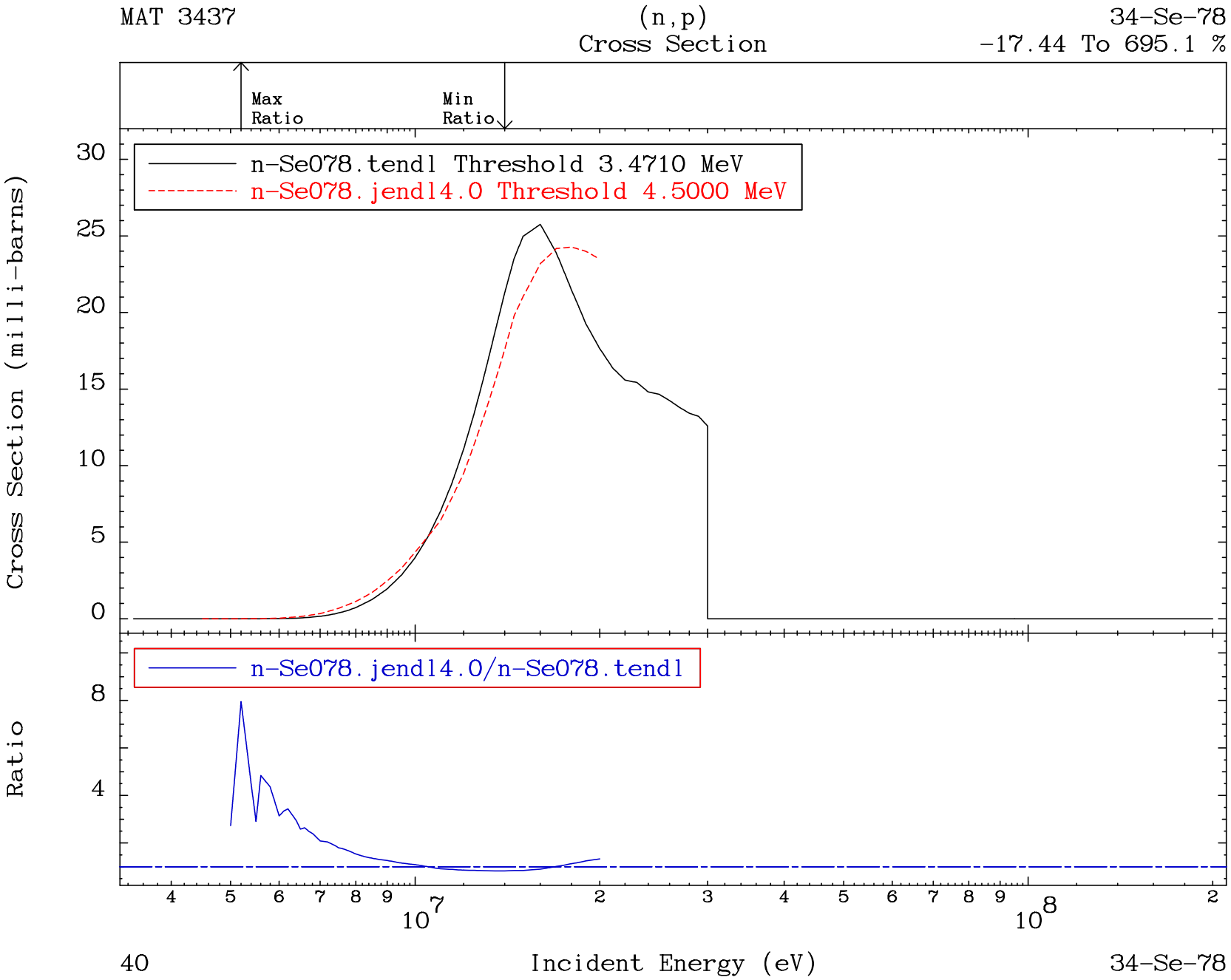

MAT 3437
MT= 78 (n,n') Level
Cross Section
34-Se-78
-7.882 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 2.9012 MeV
n-Se078.jendl4.0 Threshold 2.9012 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
10^4
10^2
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
35
34-Se-78

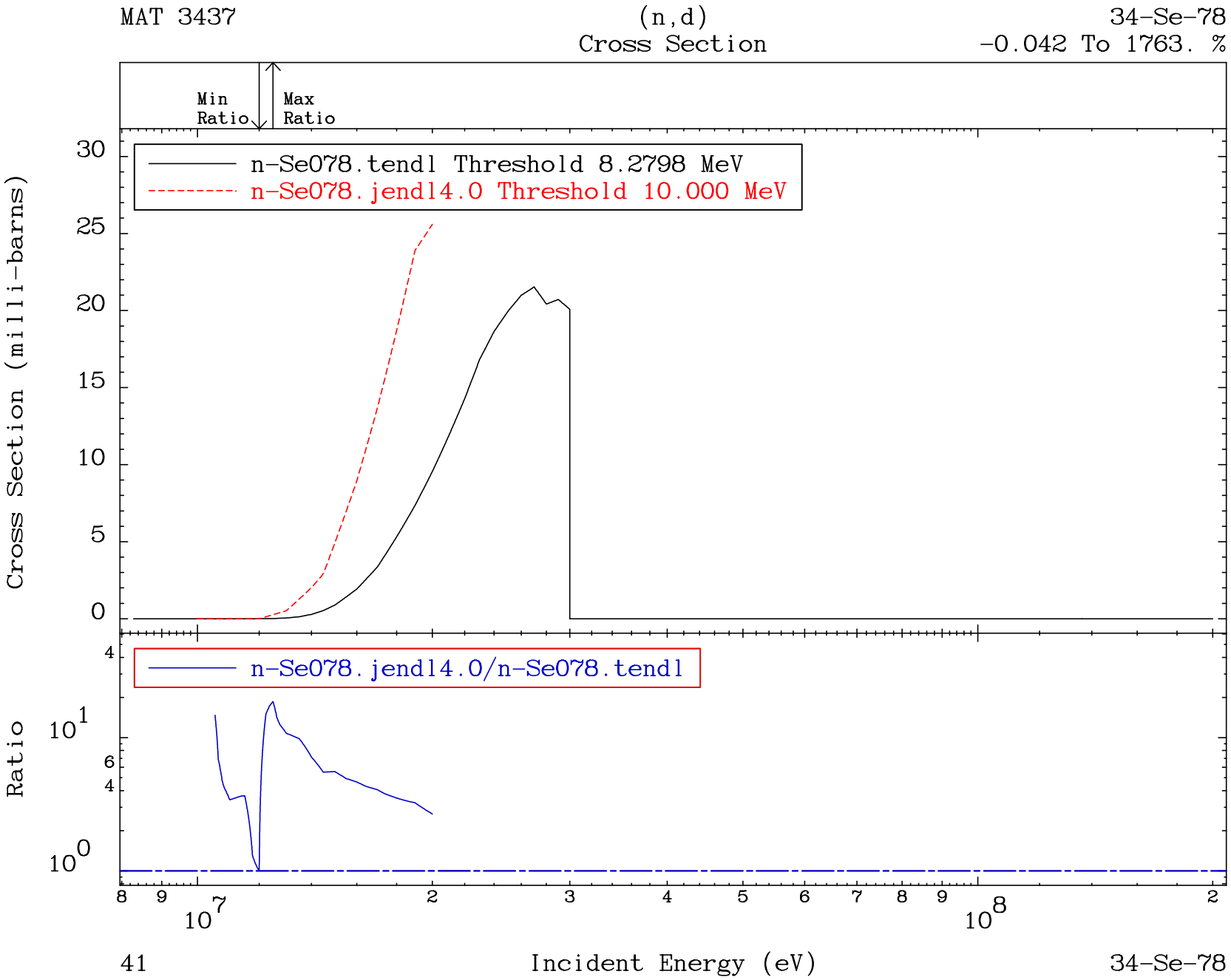

MAT 3437
MT= 79 (n,n') Level
Cross Section
34-Se-78
0.605 To 181.5 %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 2.9273 MeV
n-Se078.jendl4.0 Threshold 2.9273 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
3.0
2.0
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
34-Se-78

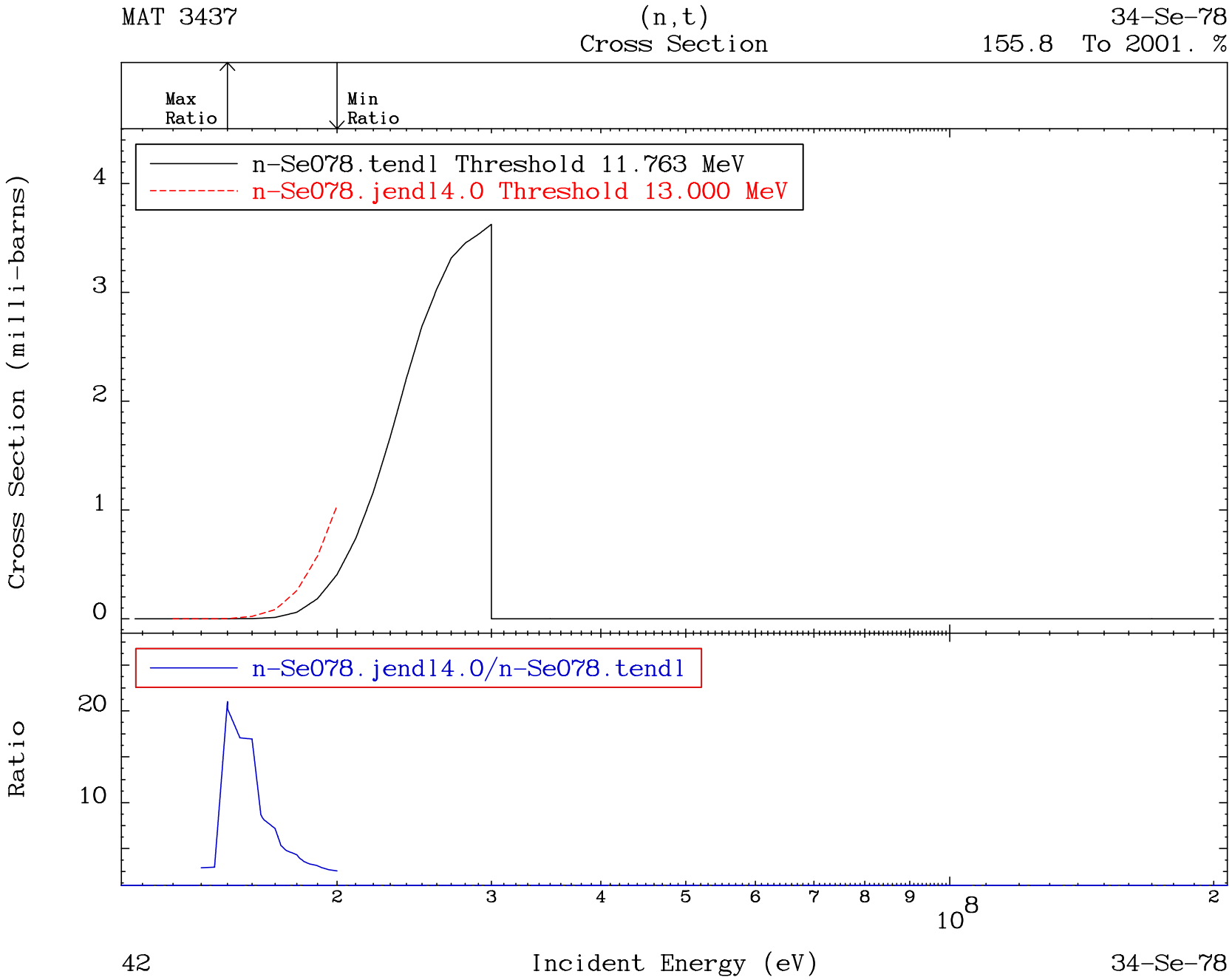

MAT 3437
MT= 80 (n,n') Level
Cross Section
34-Se-78
-11.85 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 2.9357 MeV
n-Se078.jendl4.0 Threshold 2.9357 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
10^4
10^2
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
37
Incident Energy (eV)
34-Se-78

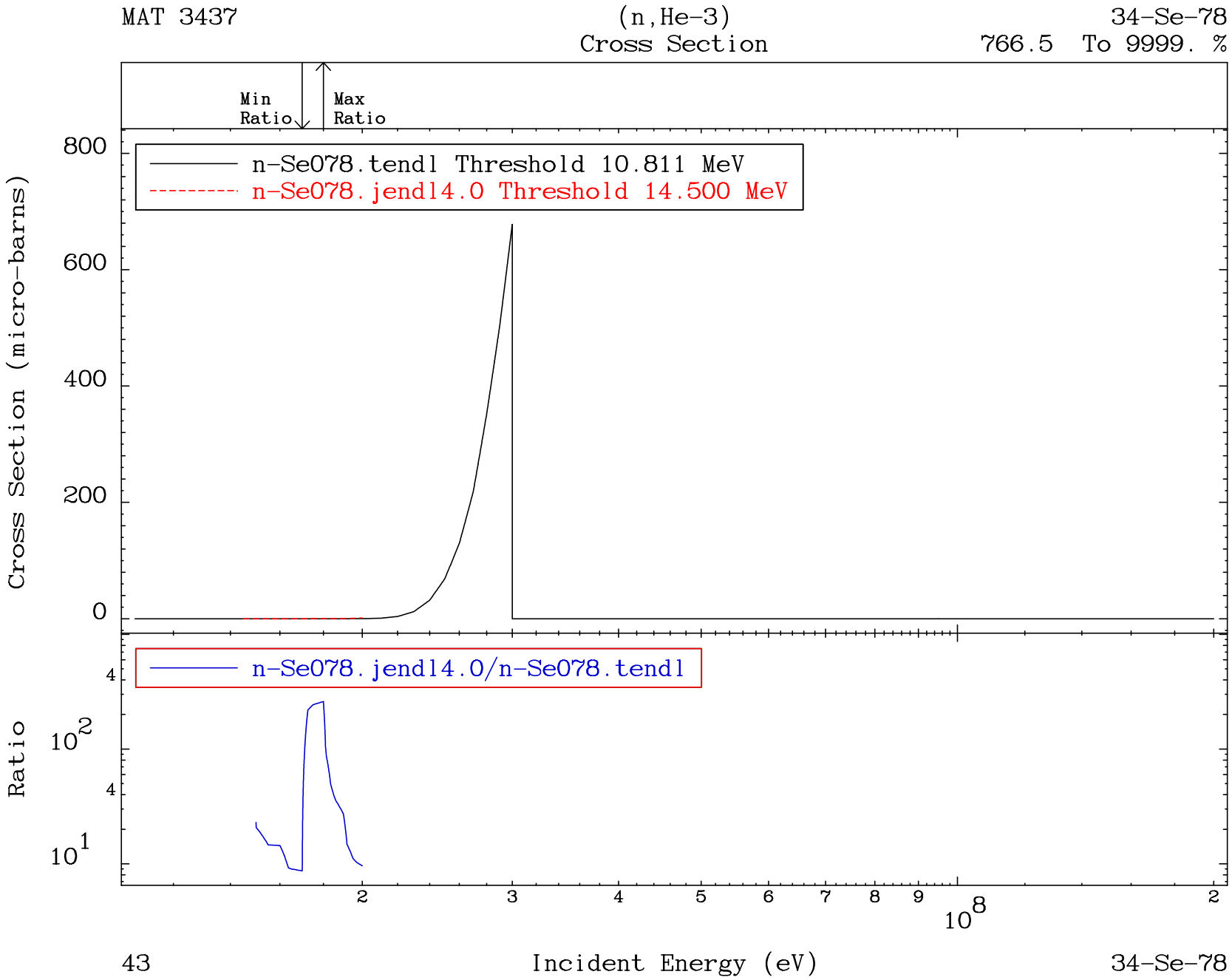

MAT 3437
(n,n') Continuum
Cross Section
34-Se-78
-77.85 To 2.375 %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 2.9357 MeV
n-Se078.jendl4.0 Threshold 3.1398 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
34-Se-78

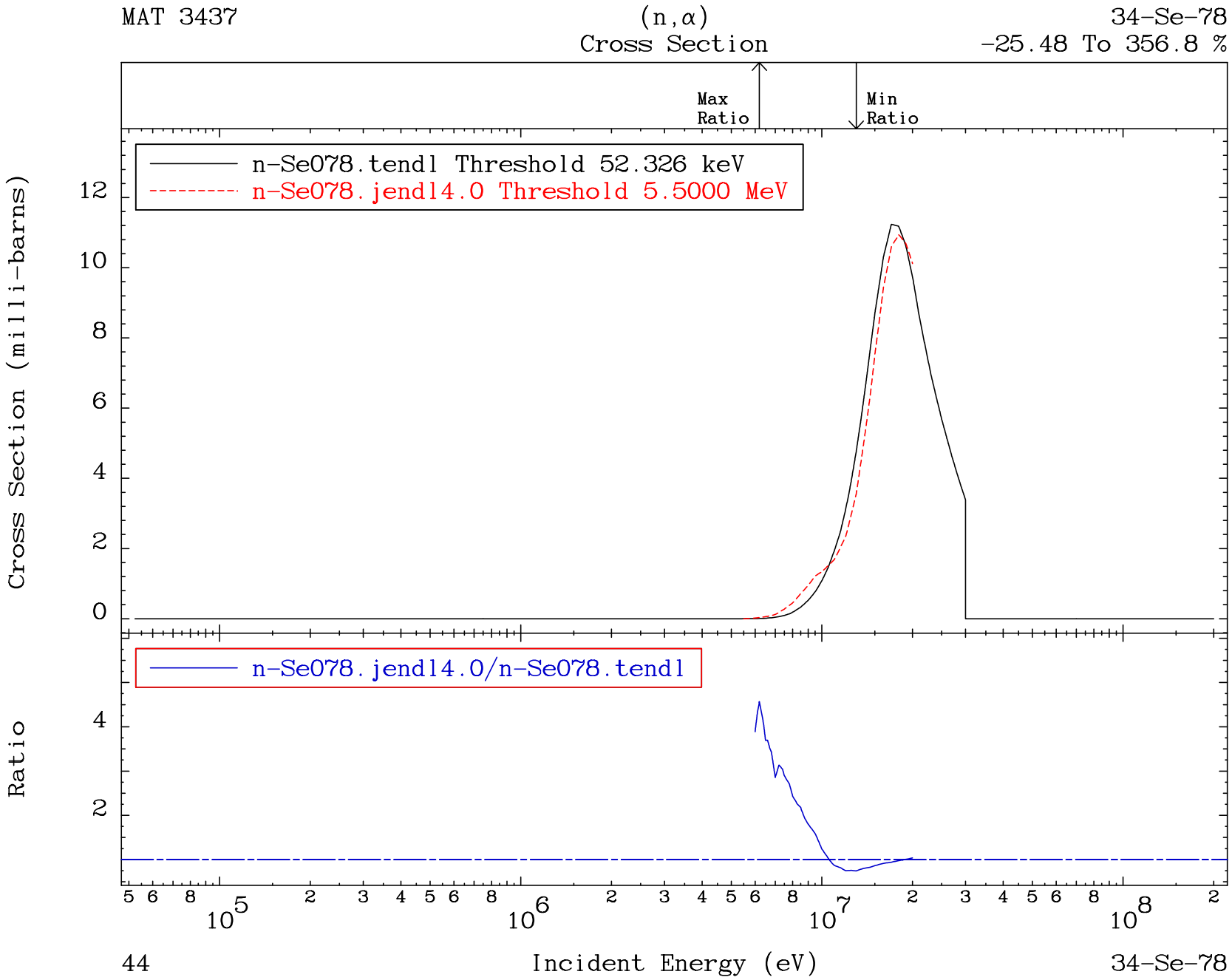

MAT 3437
(n,γ)
Cross Section
34-Se-78
-99.94 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl
n-Se078.jendl4.0
Cross Section (barns)
n-Se078.jendl4.0/n-Se078.tendl
Ratio
Incident Energy (eV)
39
34-Se-78

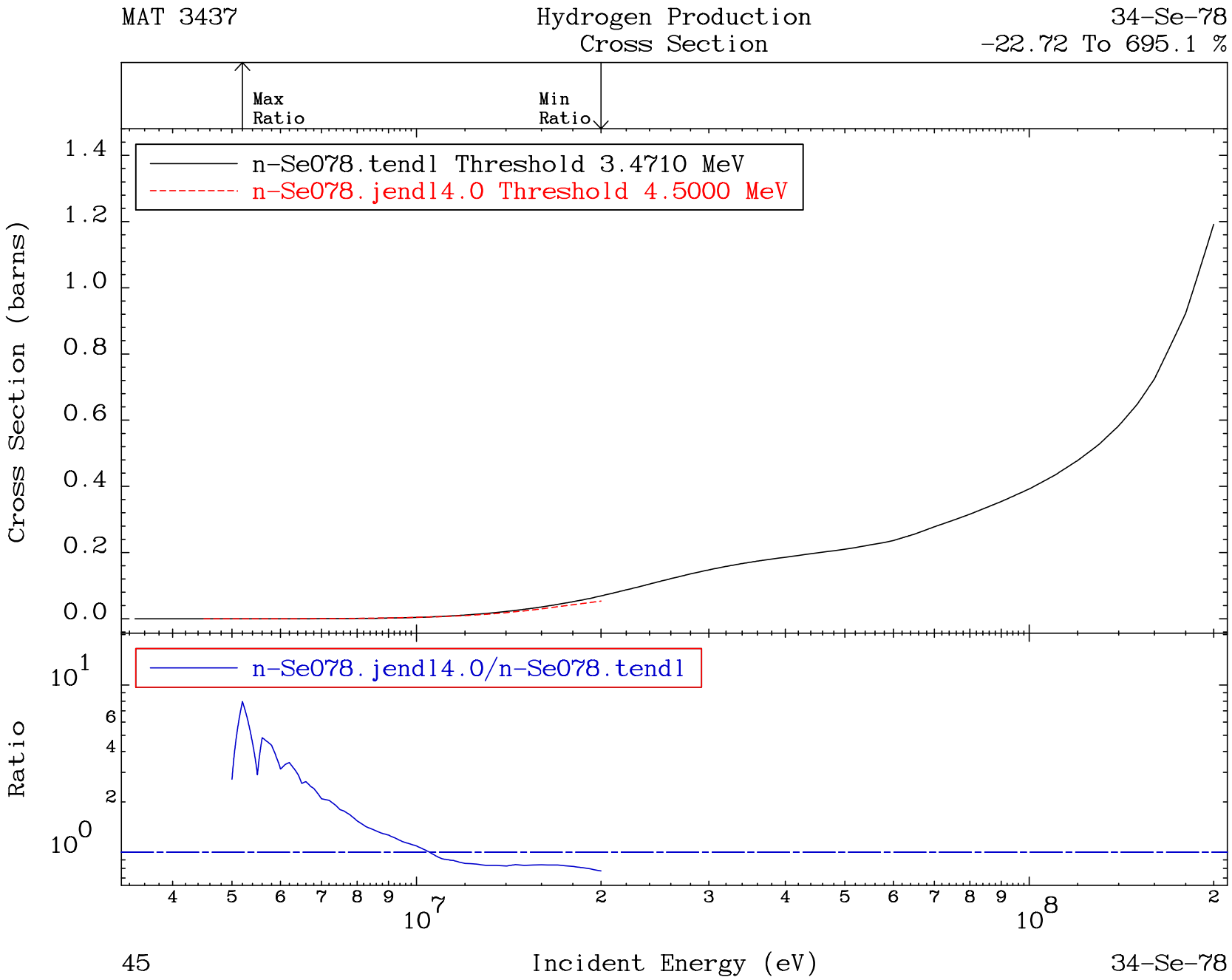

MAT 3437
(n,p)
Cross Section
34-Se-78
-17.44 To 695.1 %
Max Ratio
Min Ratio
n-Se078.tendl Threshold 3.4710 MeV
n-Se078.jendl4.0 Threshold 4.5000 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
8
4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
40
Incident Energy (eV)
34-Se-78

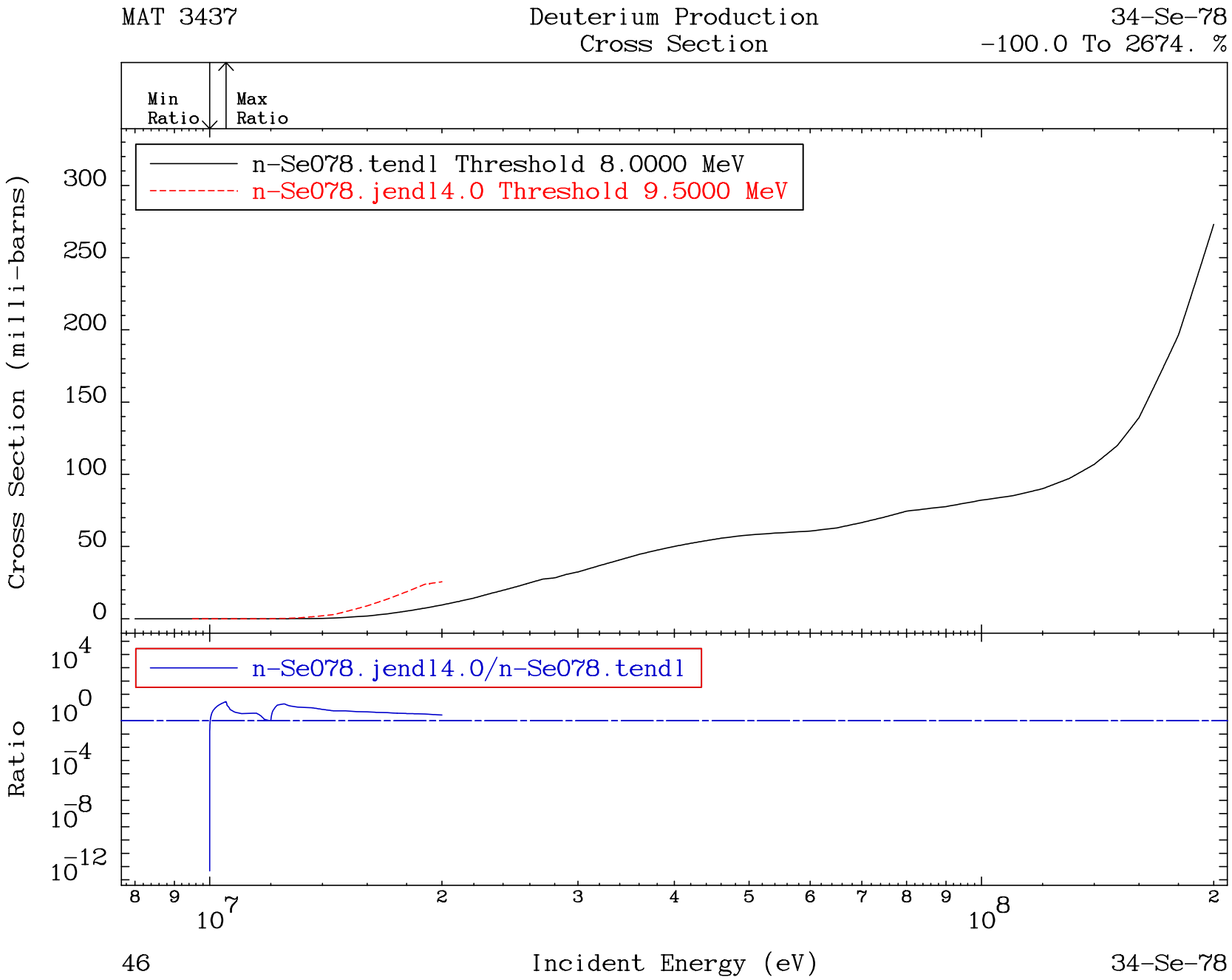

MAT 3437
(n,d)
Cross Section
34-Se-78
-0.042 To 1763. %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 8.2798 MeV
n-Se078.jendl4.0 Threshold 10.000 MeV
Cross Section (milli-barns)
n-Se078.jendl4.0/n-Se078.tendl
Ratio
Incident Energy (eV)
41
34-Se-78

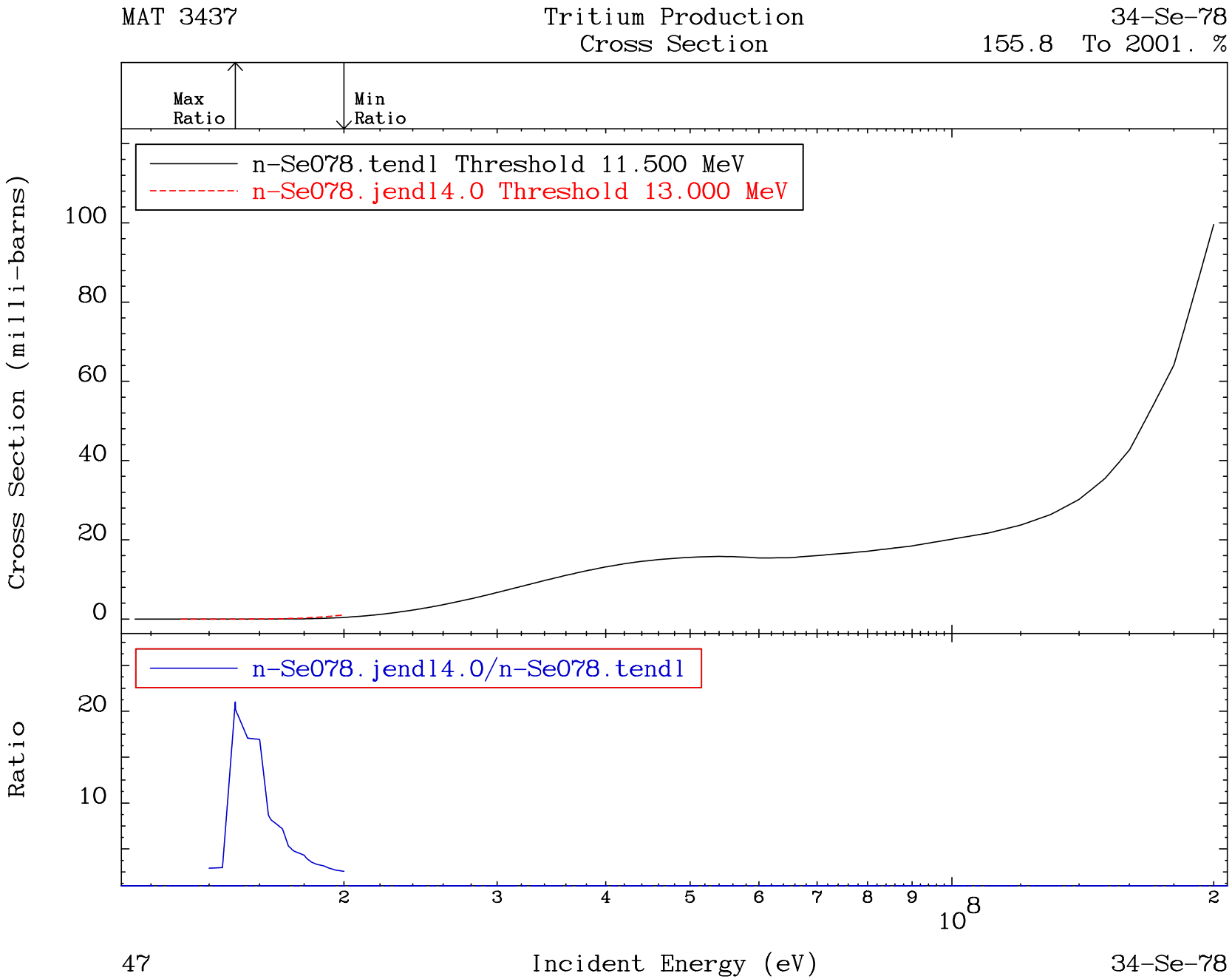

MAT 3437
(n,t)
Cross Section
34-Se-78
155.8 To 2001. %
Max Ratio
Min Ratio
n-Se078.tendl Threshold 11.763 MeV
n-Se078.jendl4.0 Threshold 13.000 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Se078.jendl4.0/n-Se078.tendl
Ratio
10
20
2
3
4
5
6
7
8
9
10^8
2
42
Incident Energy (eV)
34-Se-78

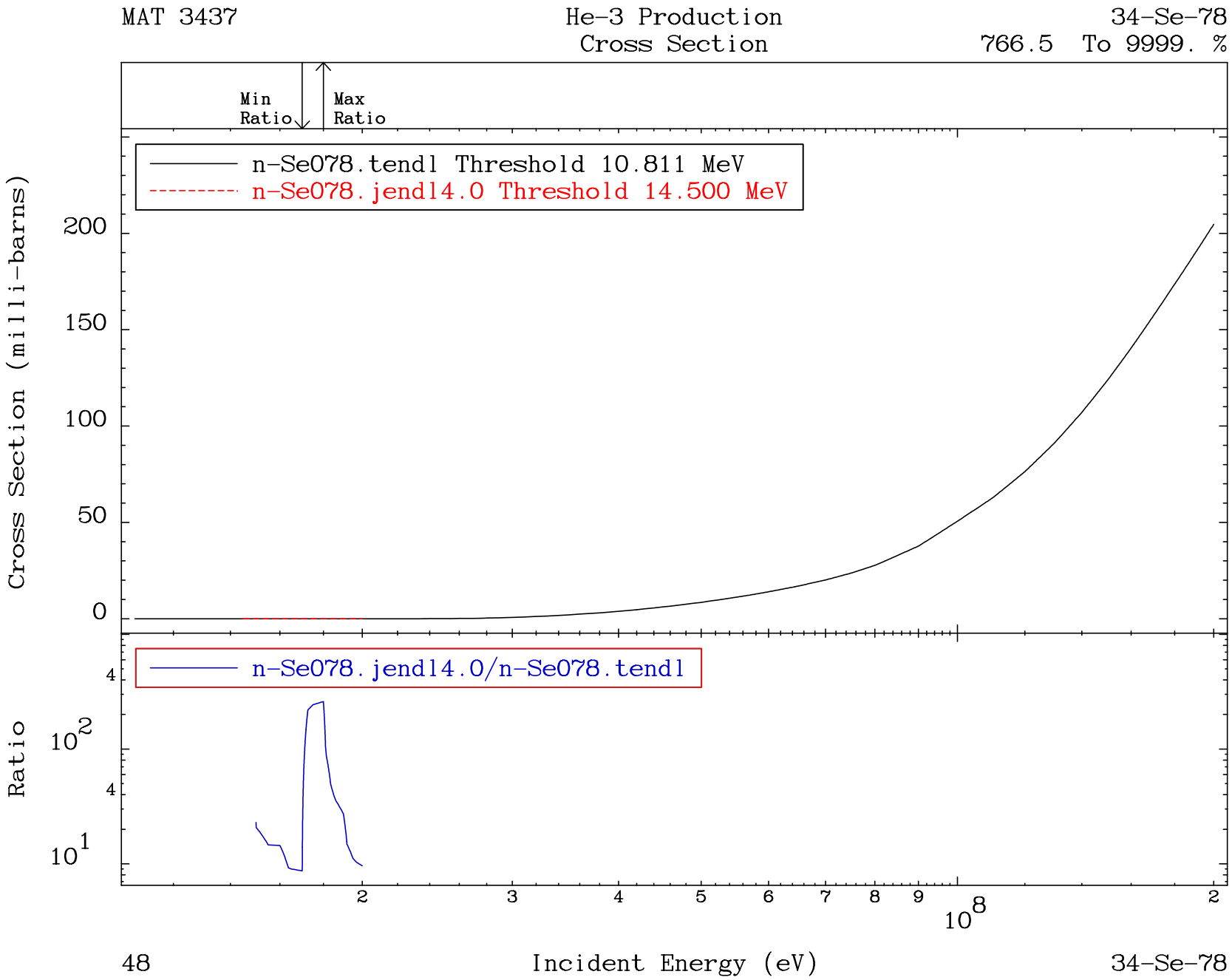

MAT 3437
(n,He-3)
Cross Section
34-Se-78
766.5 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 10.811 MeV
n-Se078.jendl4.0 Threshold 14.500 MeV
Cross Section (micro-barns)
800
600
400
200
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
10^2
4
10^1
2
3
4
5
6
7
8
9
10^8
2
43
Incident Energy (eV)
34-Se-78

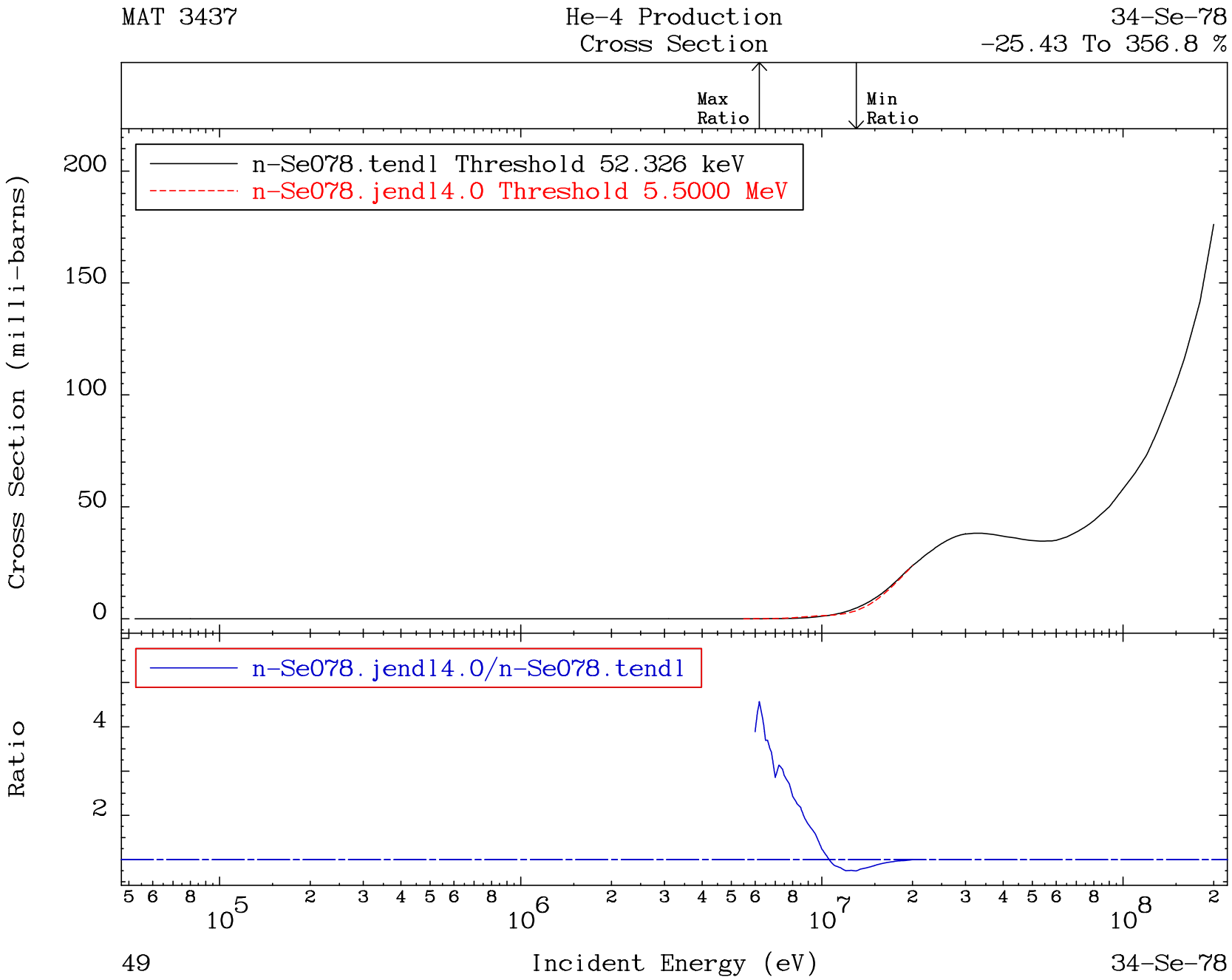

MAT 3437
(n,α)
Cross Section
34-Se-78
-25.48 To 356.8 %
Max Ratio
Min Ratio
n-Se078.tendl Threshold 52.326 keV
n-Se078.jendl4.0 Threshold 5.5000 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
n-Se078.jendl4.0/n-Se078.tendl
Ratio
2
4
5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
44
Incident Energy (eV)
34-Se-78

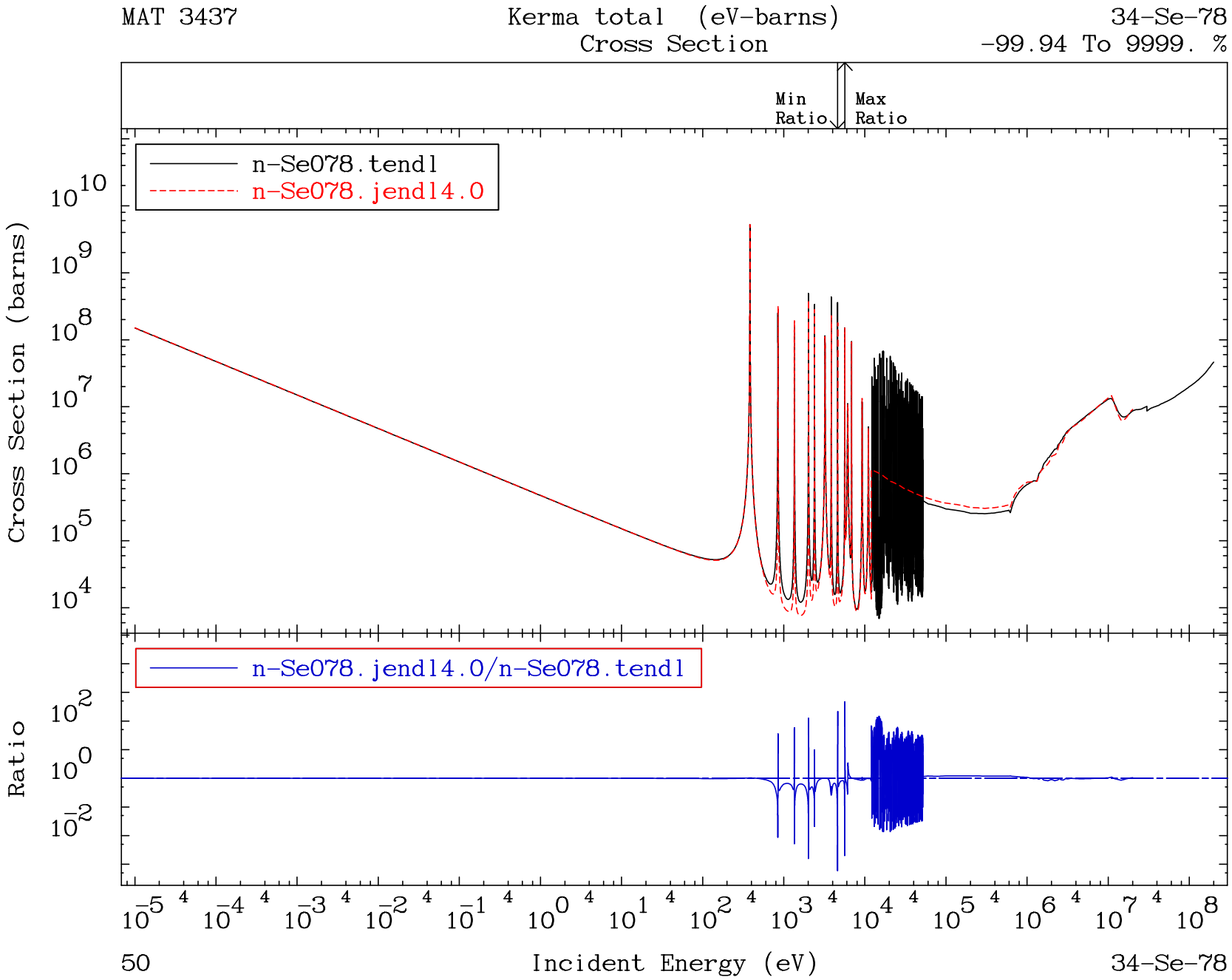

MAT 3437
Hydrogen Production
Cross Section
34-Se-78
-22.72 To 695.1 %
Max Ratio
Min Ratio
n-Se078.tendl Threshold 3.4710 MeV
n-Se078.jendl4.0 Threshold 4.5000 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
10^1
6
4
2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
34-Se-78

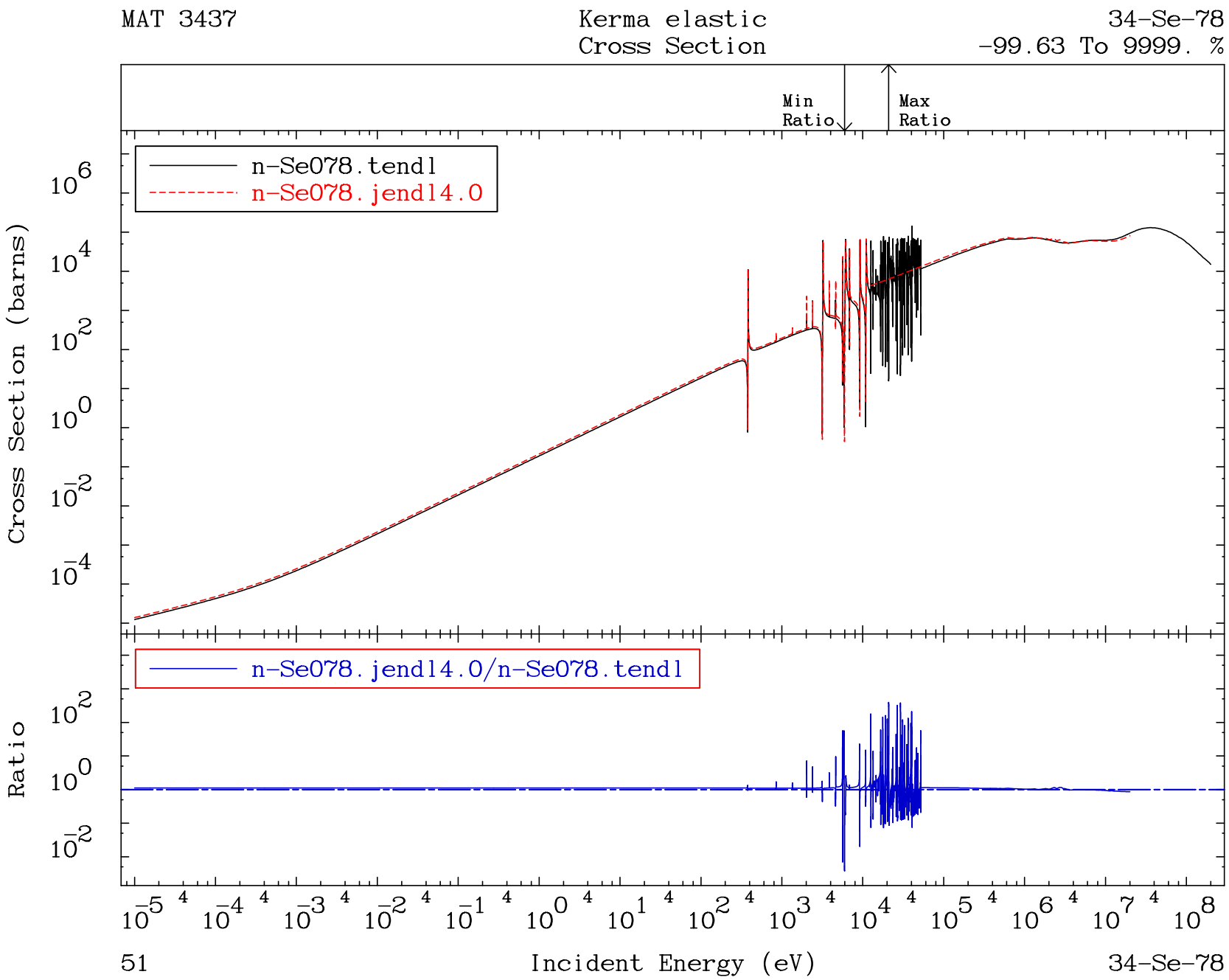

MAT 3437
Deuterium Production
Cross Section
34-Se-78
-100.0 To 2674. %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 8.0000 MeV
n-Se078.jendl4.0 Threshold 9.5000 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
10^4
10^0
10^-4
10^-8
10^-12
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
46
Incident Energy (eV)
34-Se-78

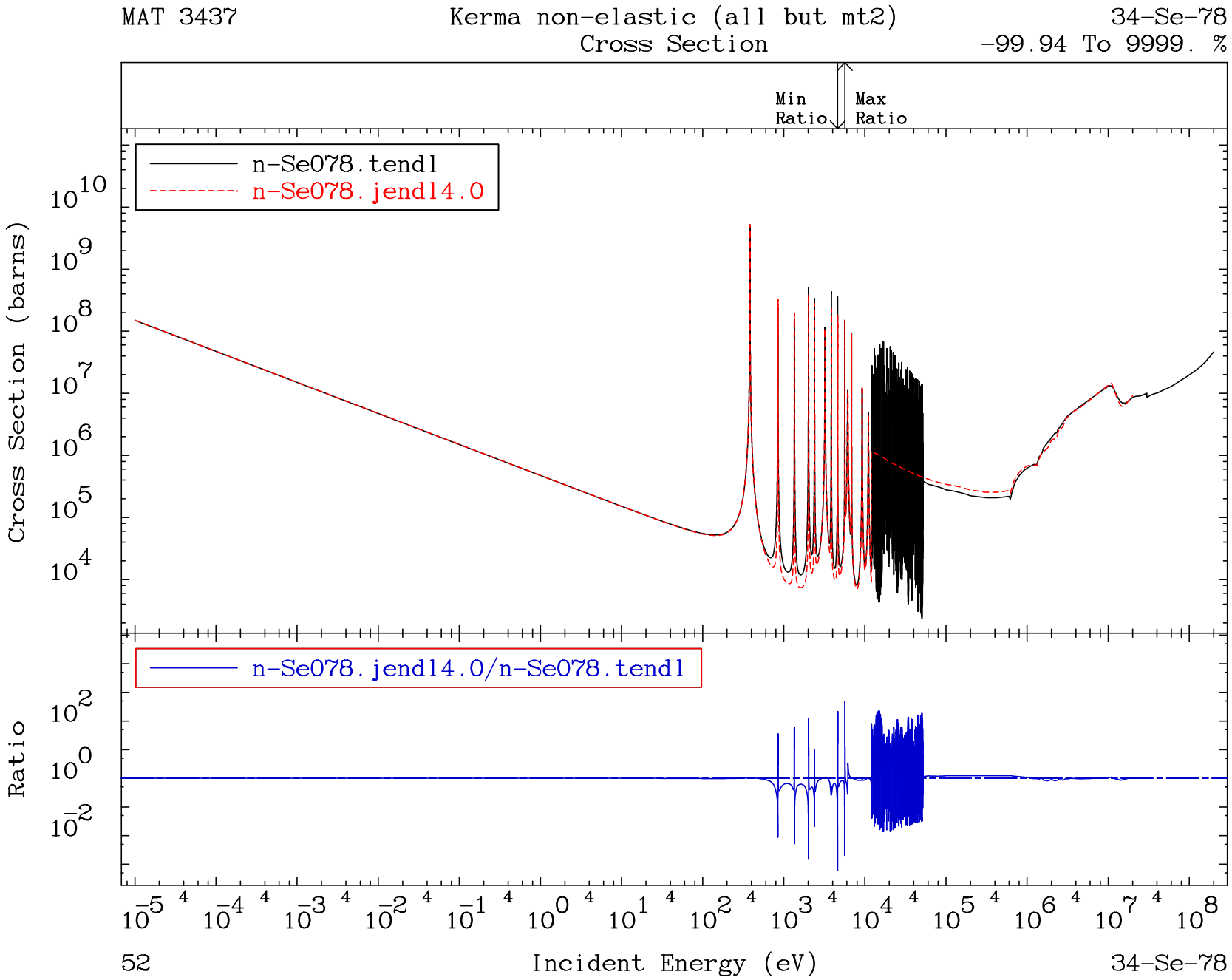

MAT 3437
Tritium Production
Cross Section
34-Se-78
155.8 To 2001. %
Max Ratio
Min Ratio
n-Se078.tendl Threshold 11.500 MeV
n-Se078.jendl4.0 Threshold 13.000 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
20
10
2
3
4
5
6
7
8
9
10^8
2
47
Incident Energy (eV)
34-Se-78

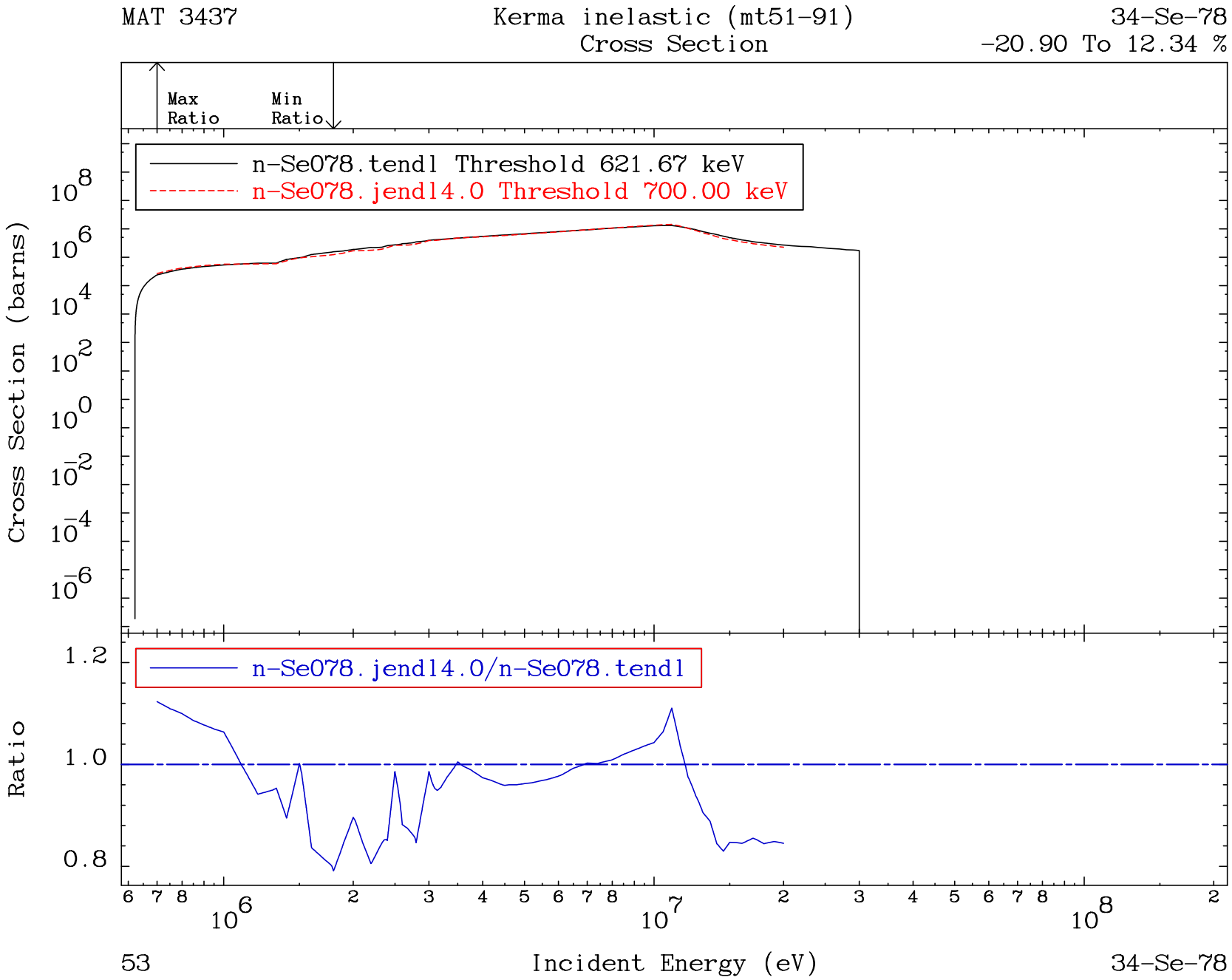

MAT 3437
He-3 Production
Cross Section
34-Se-78
766.5 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 10.811 MeV
n-Se078.jendl4.0 Threshold 14.500 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
4
10^2
4
10^1
2
3
4
5
6
7
8
9
10^8
2
48
Incident Energy (eV)
34-Se-78

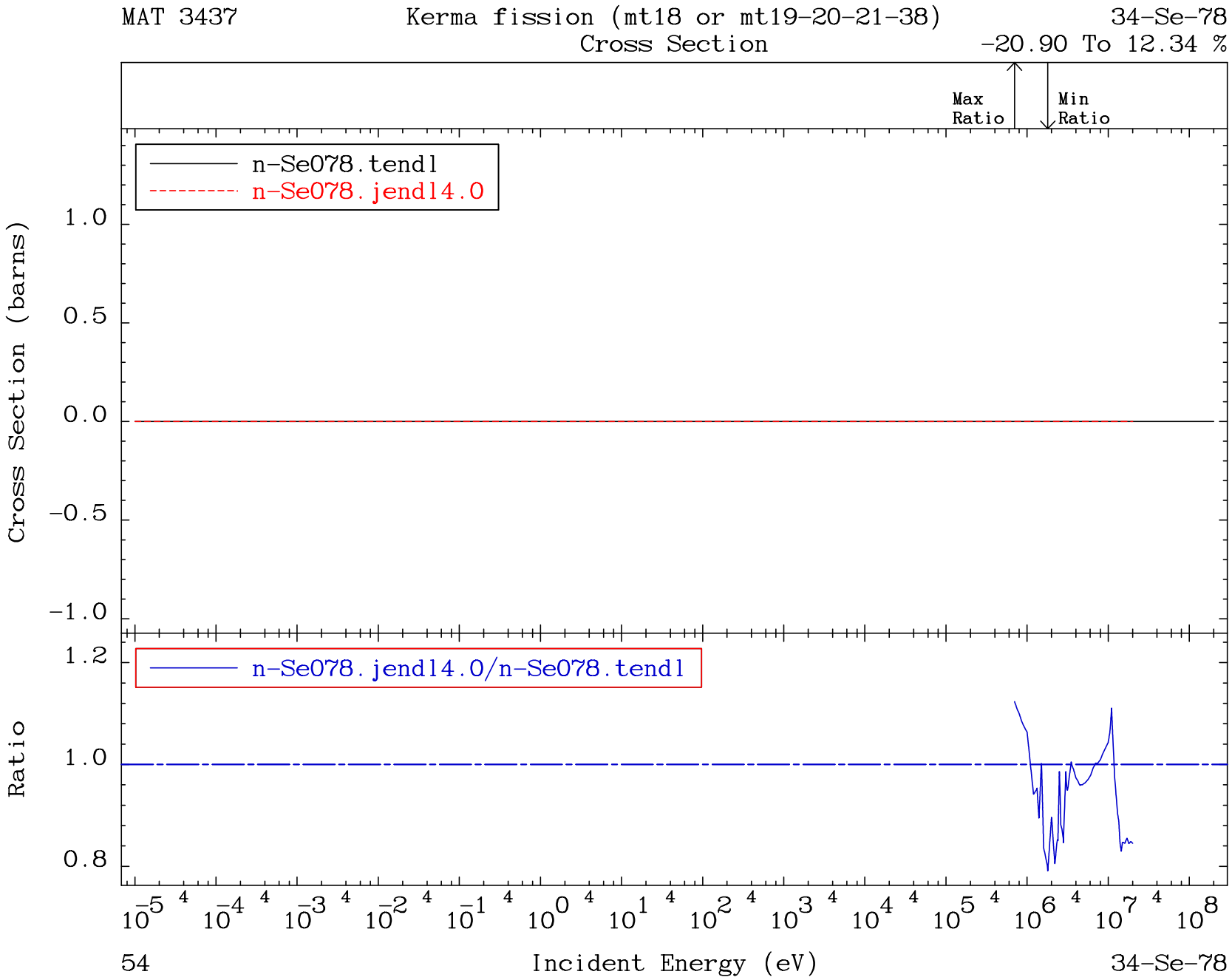

MAT 3437
He-4 Production
Cross Section
34-Se-78
-25.43 To 356.8 %
Max Ratio
Min Ratio
n-Se078.tendl Threshold 52.326 keV
n-Se078.jendl4.0 Threshold 5.5000 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
4
2
5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
49
Incident Energy (eV)
34-Se-78

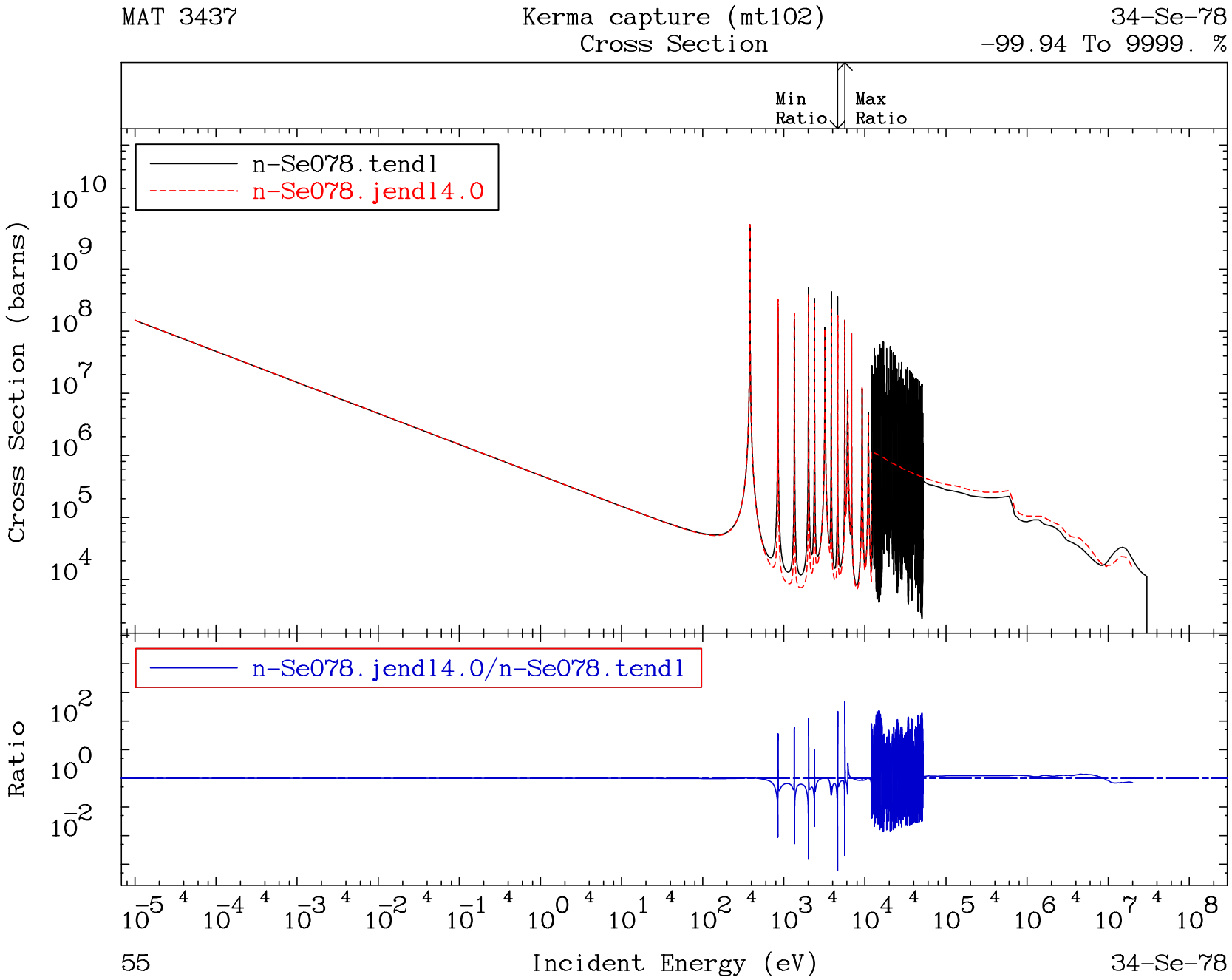

MAT 3437
Kerma total (eV-barns)
Cross Section
34-Se-78
-99.94 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl
n-Se078.jendl4.0
Cross Section (barns)
n-Se078.jendl4.0/n-Se078.tendl
Ratio
50
Incident Energy (eV)
34-Se-78

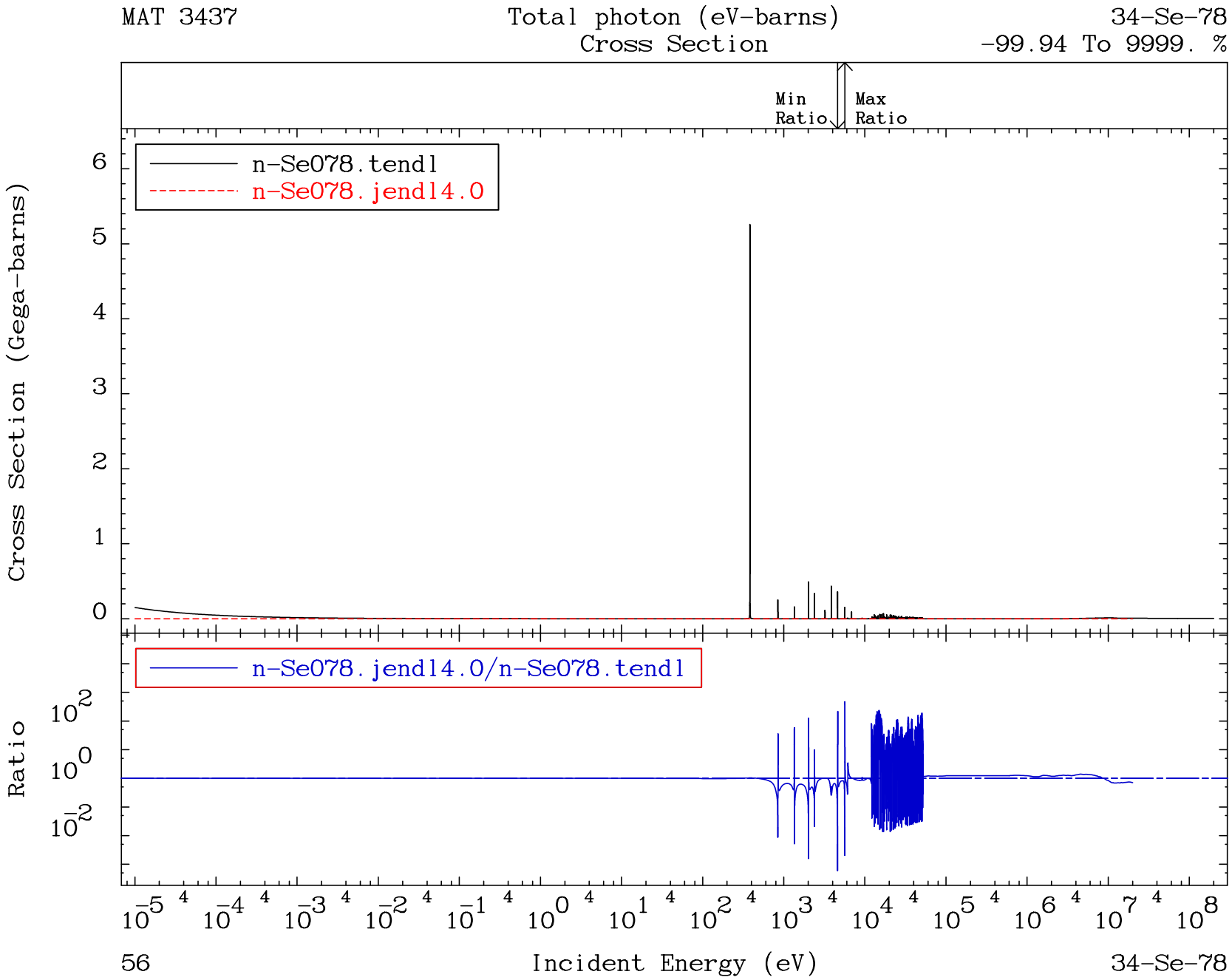

MAT 3437
Kerma elastic
Cross Section
34-Se-78
-99.63 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl
n-Se078.jendl4.0
Cross Section (barns)
n-Se078.jendl4.0/n-Se078.tendl
Ratio
Incident Energy (eV)
51
34-Se-78

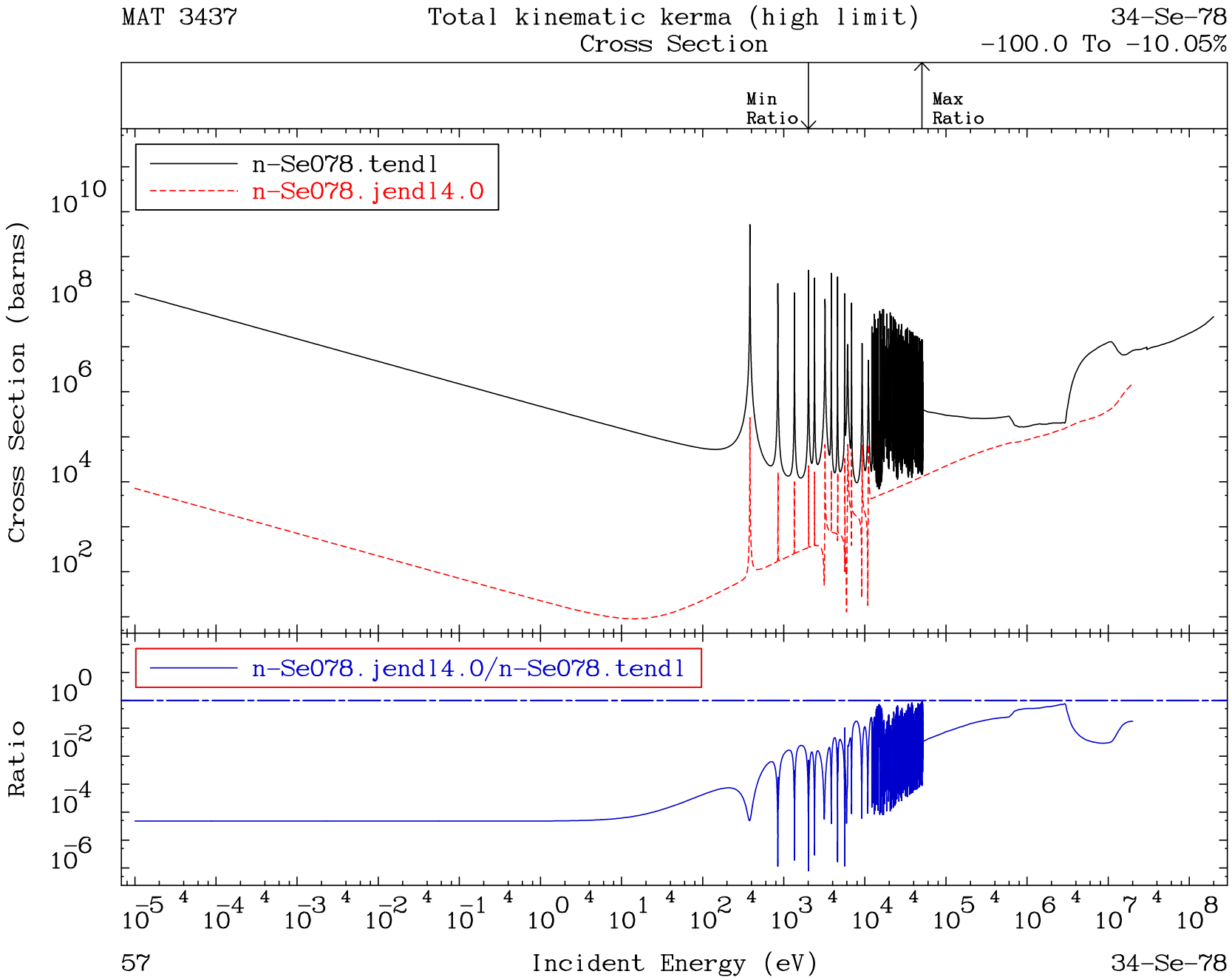

MAT 3437
Kerma non-elastic (all but mt2)
Cross Section
34-Se-78
-99.94 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl
n-Se078.jendl4.0
Cross Section (barns)
n-Se078.jendl4.0/n-Se078.tendl
Ratio
Incident Energy (eV)
52
34-Se-78

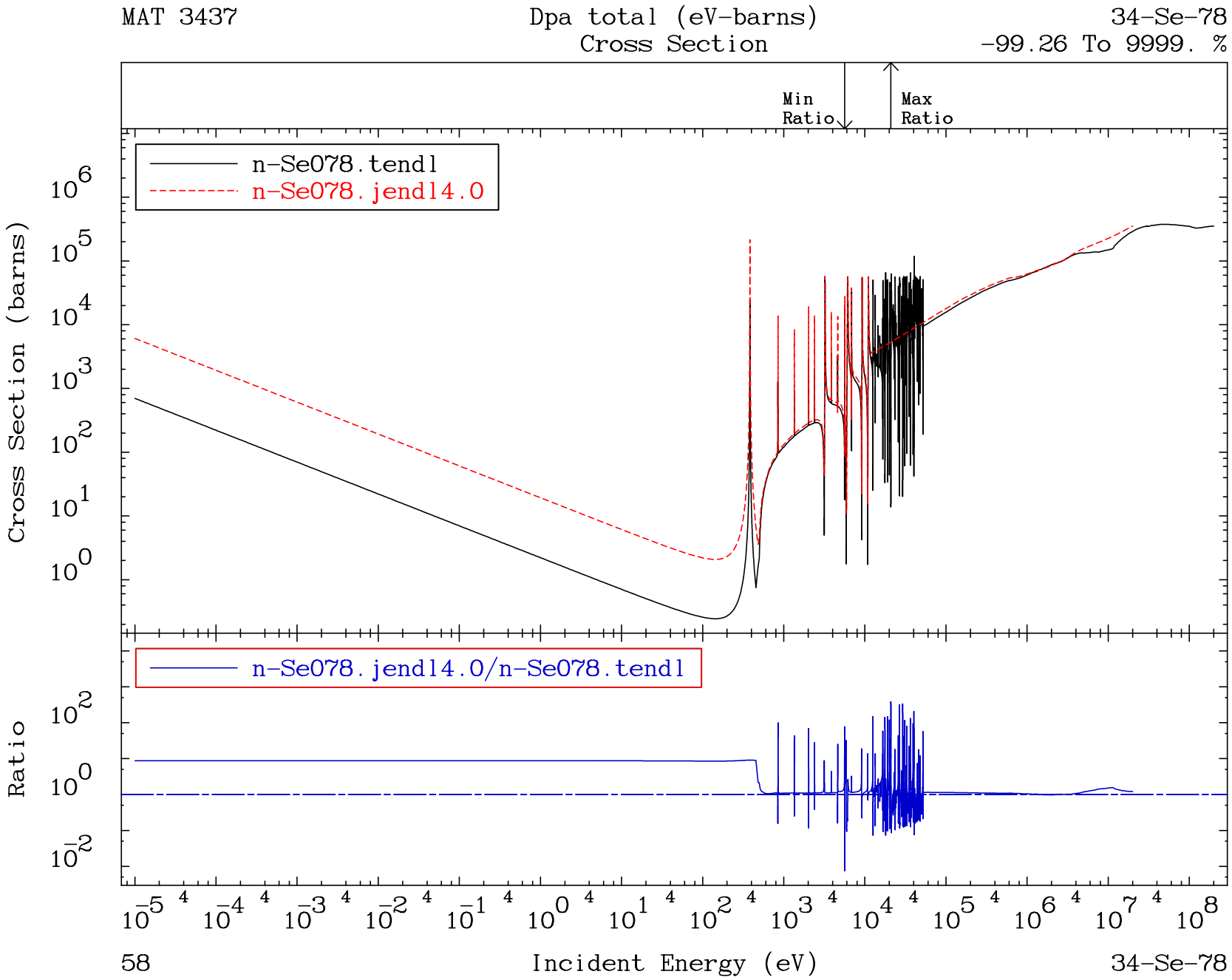

MAT 3437
Kerma inelastic (mt51-91)
Cross Section
34-Se-78
-20.90 To 12.34 %
Max Ratio
Min Ratio
n-Se078.tendl Threshold 621.67 keV
n-Se078.jendl4.0 Threshold 700.00 keV
Cross Section (barns)
n-Se078.jendl4.0/n-Se078.tendl
Ratio
Incident Energy (eV)
53
34-Se-78

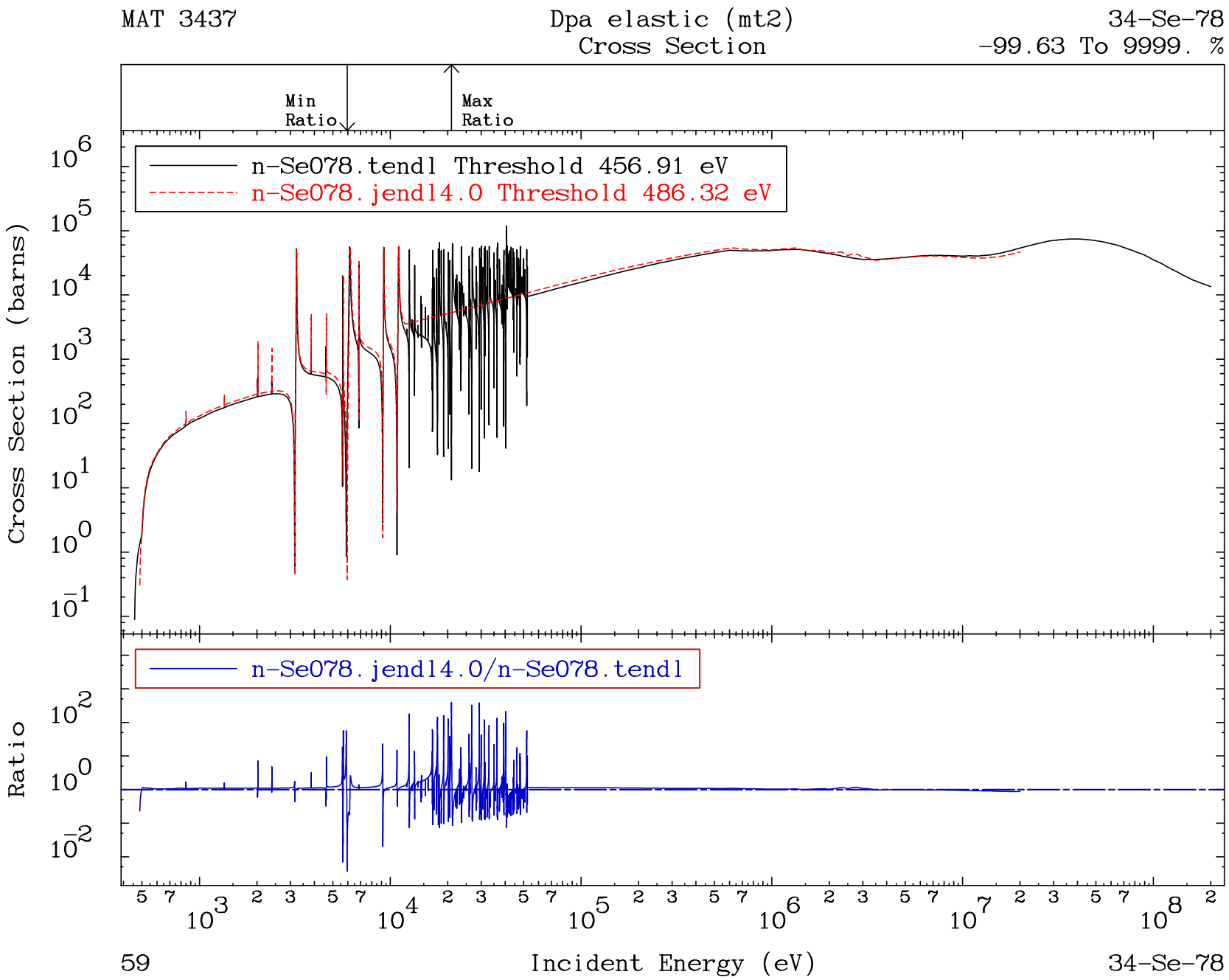

MAT 3437
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
34-Se-78
-20.90 To 12.34 %
Max Ratio
Min Ratio
n-Se078.tendl
n-Se078.jendl4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Se078.jendl4.0/n-Se078.tendl
Ratio
1.2
1.0
0.8
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
54
Incident Energy (eV)
34-Se-78

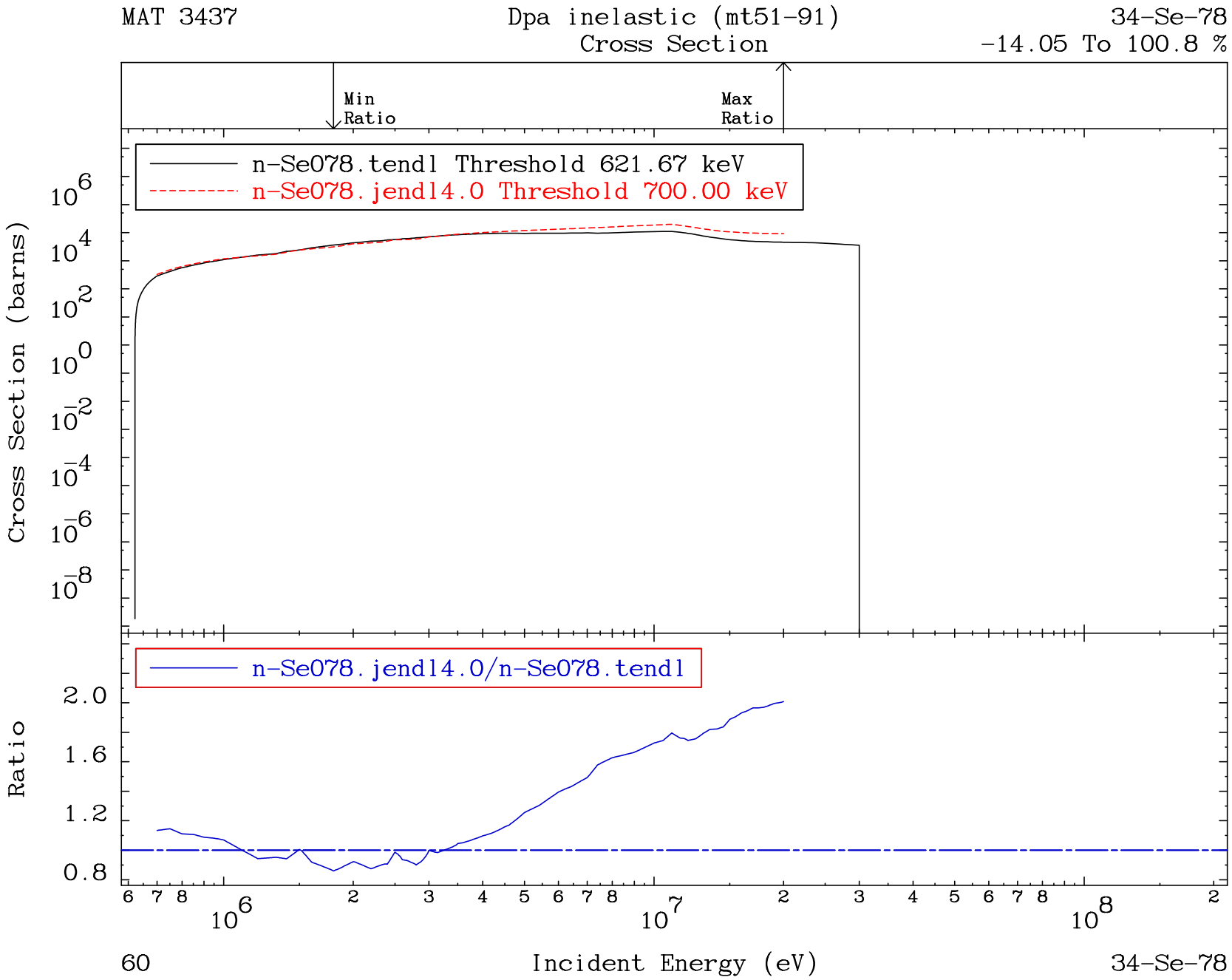

MAT 3437
Kerma capture (mt102)
Cross Section
34-Se-78
-99.94 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl
n-Se078.jendl4.0
Cross Section (barns)
n-Se078.jendl4.0/n-Se078.tendl
Ratio
Incident Energy (eV)
55
34-Se-78

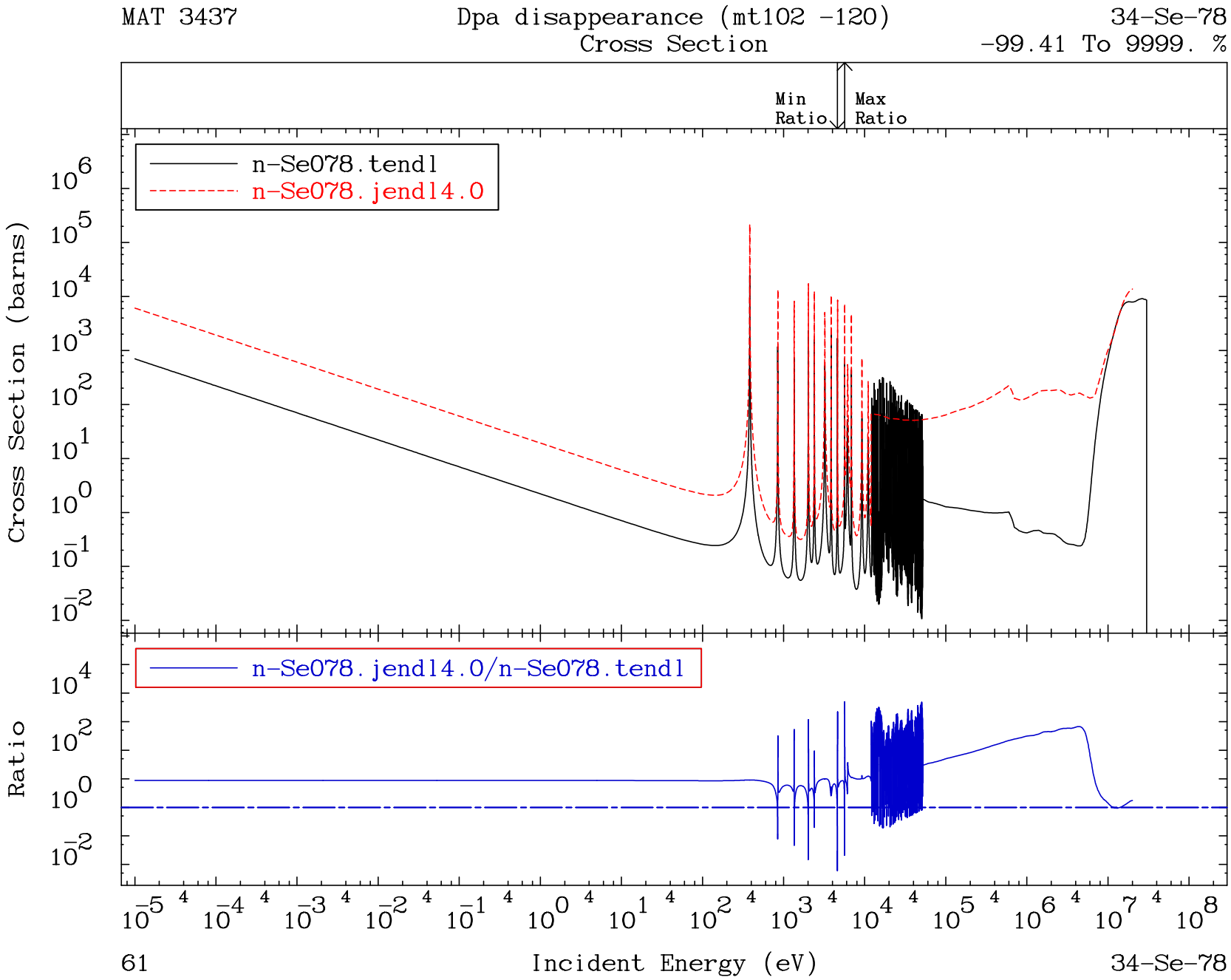

MAT 3437
Total photon (eV-barns)
Cross Section
34-Se-78
-99.94 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl
n-Se078.jendl4.0
Cross Section (Giga-barns)
n-Se078.jendl4.0/n-Se078.tendl
Ratio
56
Incident Energy (eV)
34-Se-78


MAT 3437
Total kinematic kerma (high limit)
Cross Section
34-Se-78
-100.0 To -10.05%
Min Ratio
Max Ratio
n-Se078.tendl
n-Se078.jendl4.0
Cross Section (barns)
n-Se078.jendl4.0/n-Se078.tendl
Ratio
Incident Energy (eV)
57
34-Se-78


MAT 3437
Dpa total (eV-barns)
Cross Section
34-Se-78
-99.26 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl
n-Se078.jendl4.0
Cross Section (barns)
n-Se078.jendl4.0/n-Se078.tendl
Ratio
Incident Energy (eV)
58
34-Se-78


MAT 3437
Dpa elastic (mt2)
Cross Section
34-Se-78
-99.63 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 456.91 eV
n-Se078.jendl4.0 Threshold 486.32 eV
Cross Section (barns)
n-Se078.jendl4.0/n-Se078.tendl
Ratio
Incident Energy (eV)
59
34-Se-78


MAT 3437
Dpa inelastic (mt51-91)
Cross Section
34-Se-78
-14.05 To 100.8 %
Min Ratio
Max Ratio
n-Se078.tendl Threshold 621.67 keV
n-Se078.jendl4.0 Threshold 700.00 keV
Cross Section (barns)
n-Se078.jendl4.0/n-Se078.tendl
Ratio
Incident Energy (eV)
60
34-Se-78


MAT 3437
Dpa disappearance (mt102 -120)
Cross Section
34-Se-78
-99.41 To 9999. %
Min Ratio
Max Ratio
n-Se078.tendl
n-Se078.jendl4.0
Cross Section (barns)
n-Se078.jendl4.0/n-Se078.tendl
Ratio
61
Incident Energy (eV)
34-Se-78