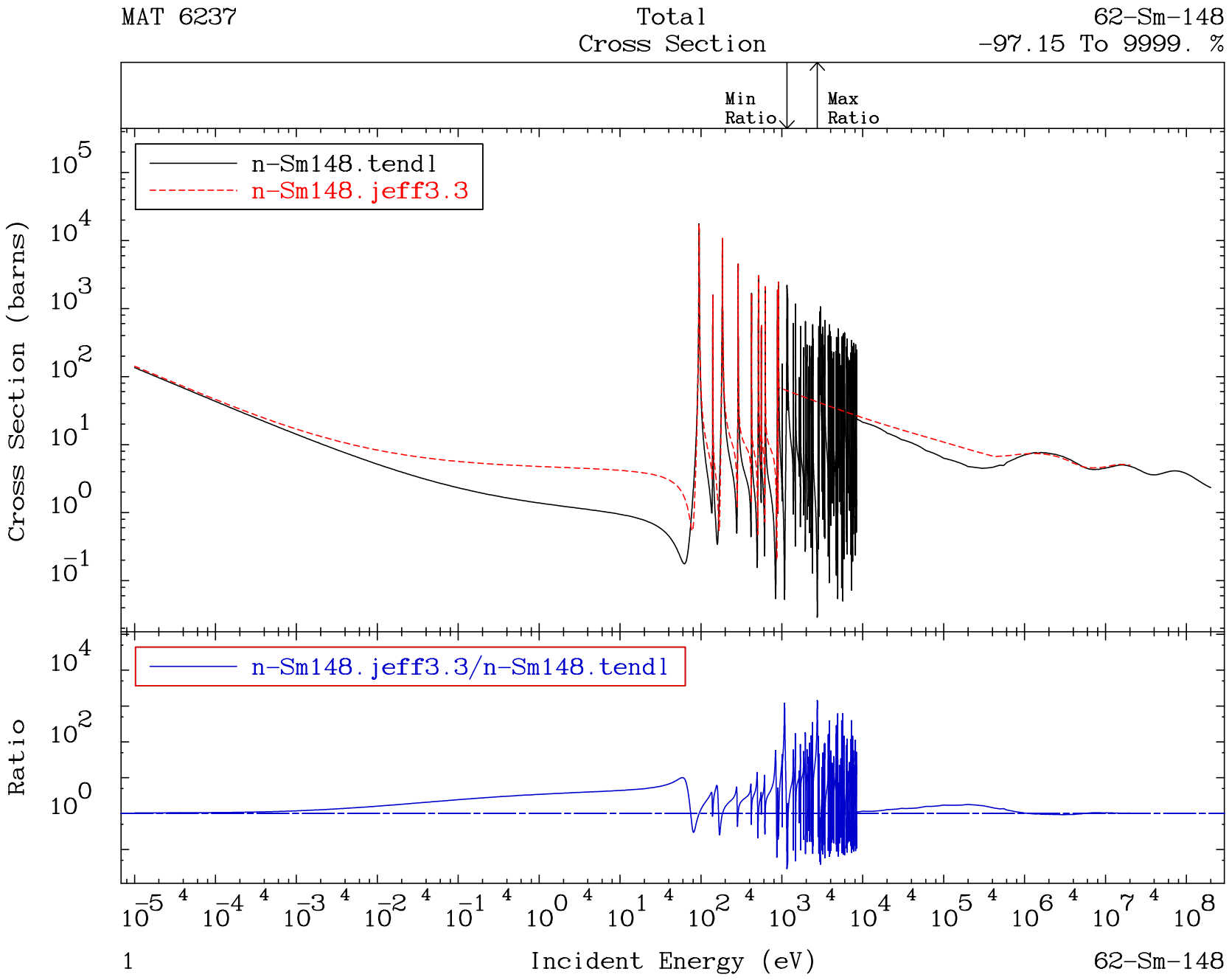
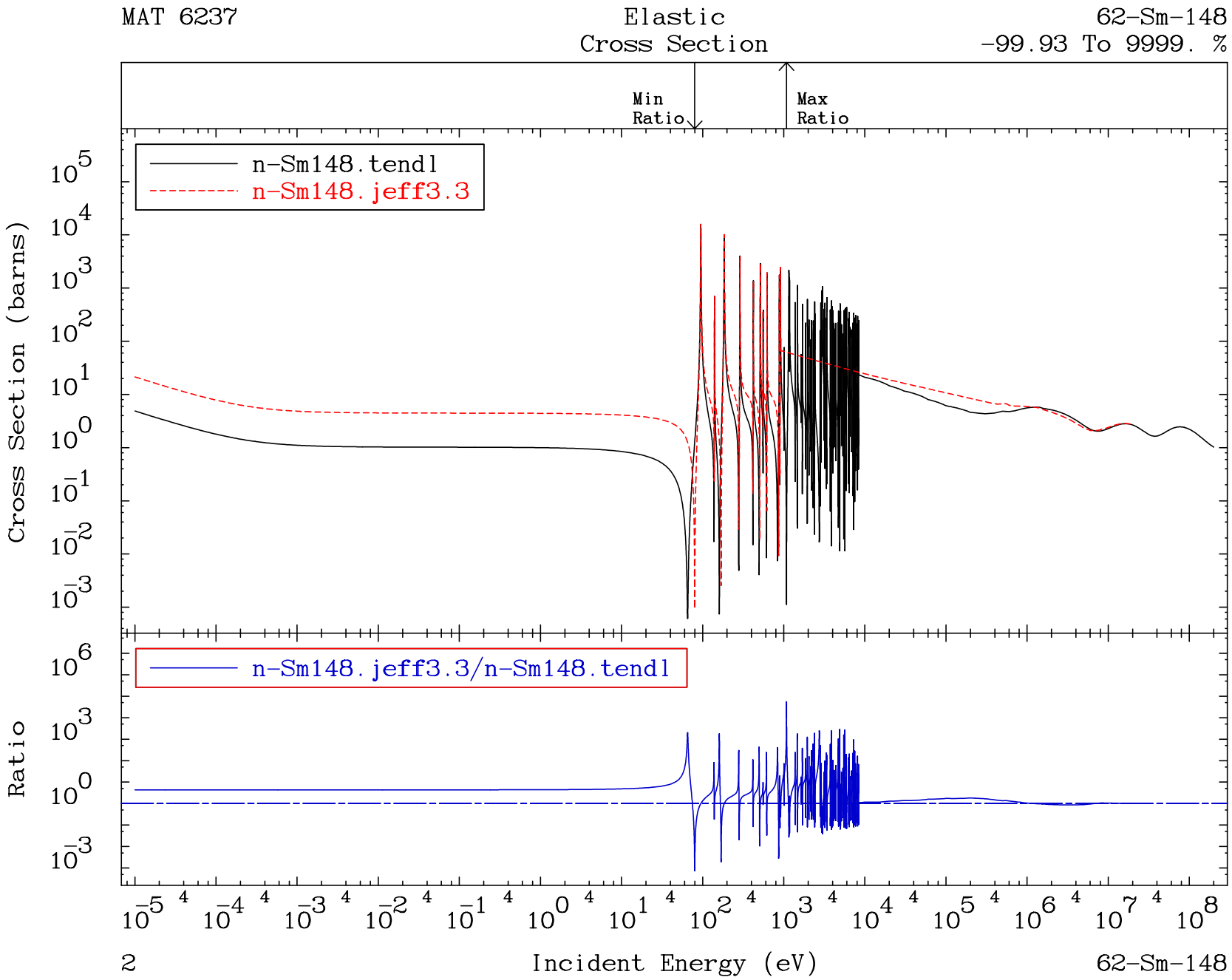
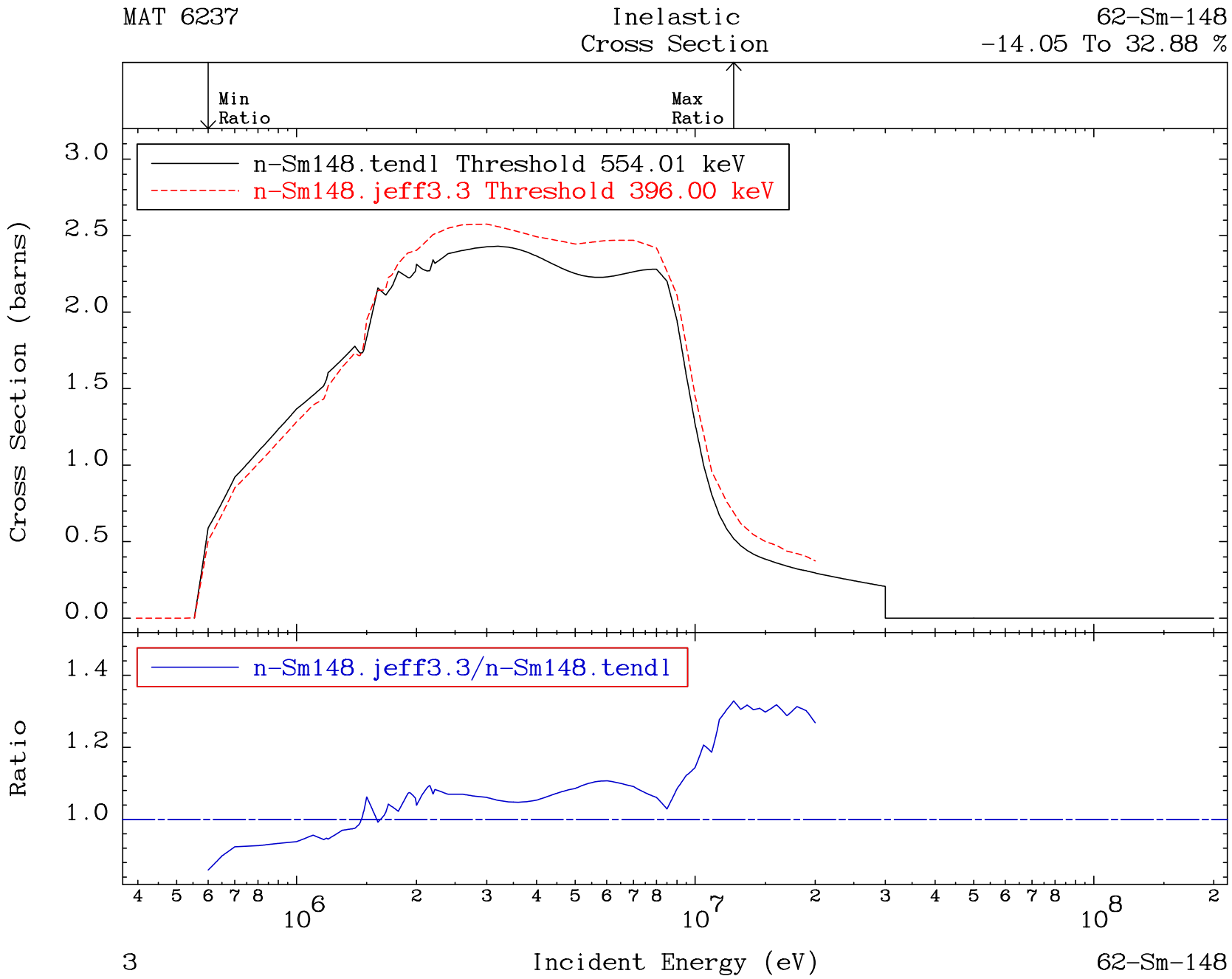
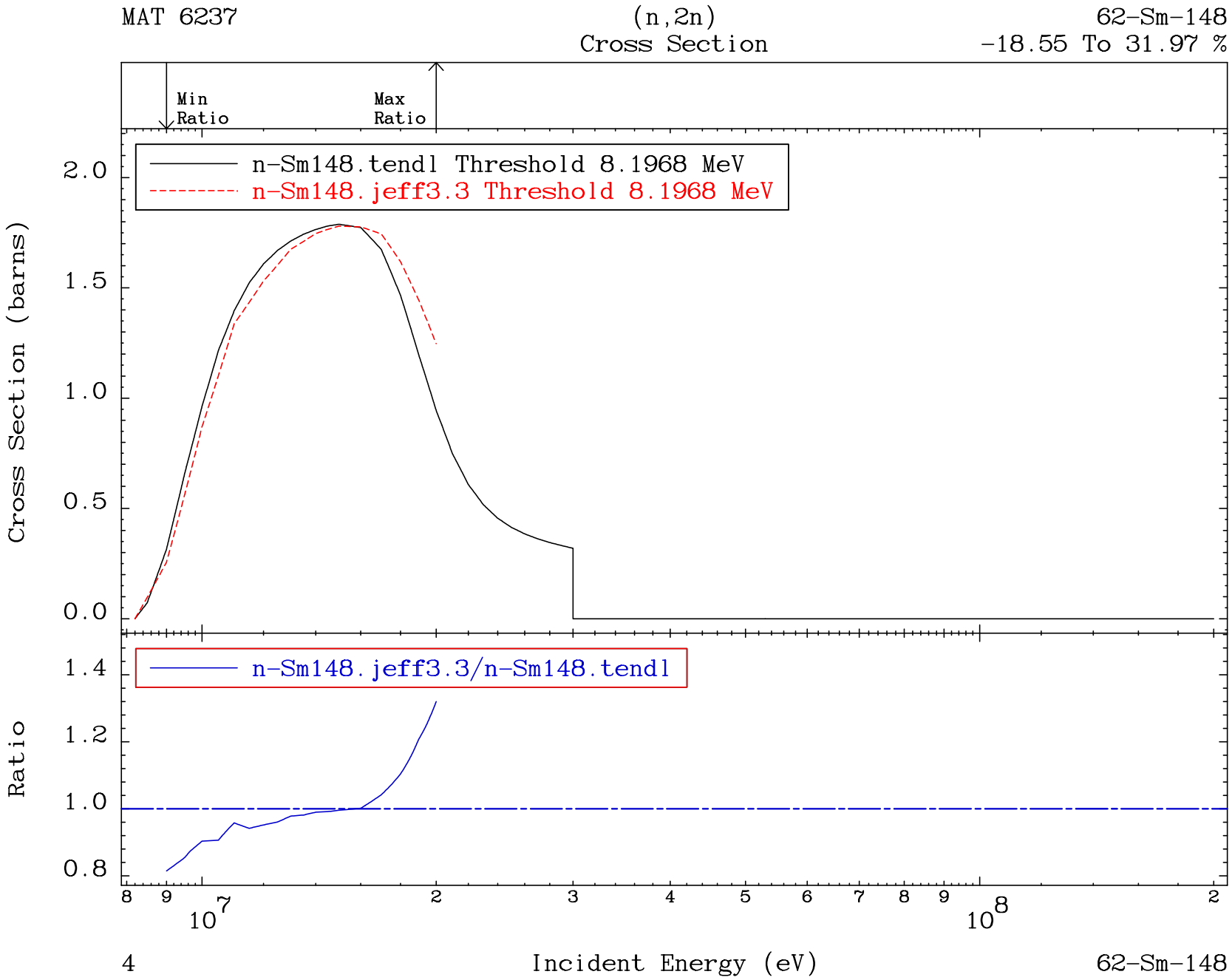
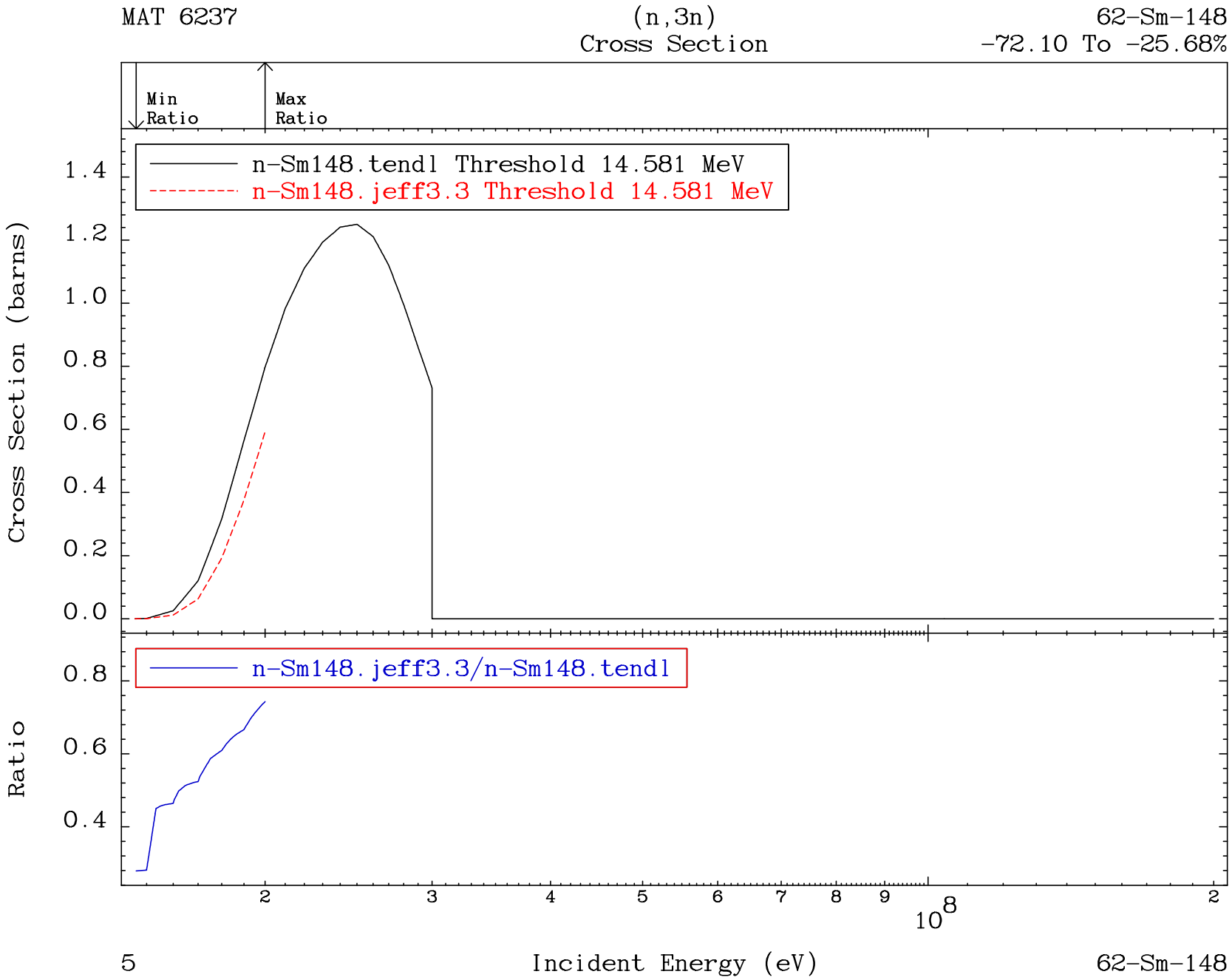
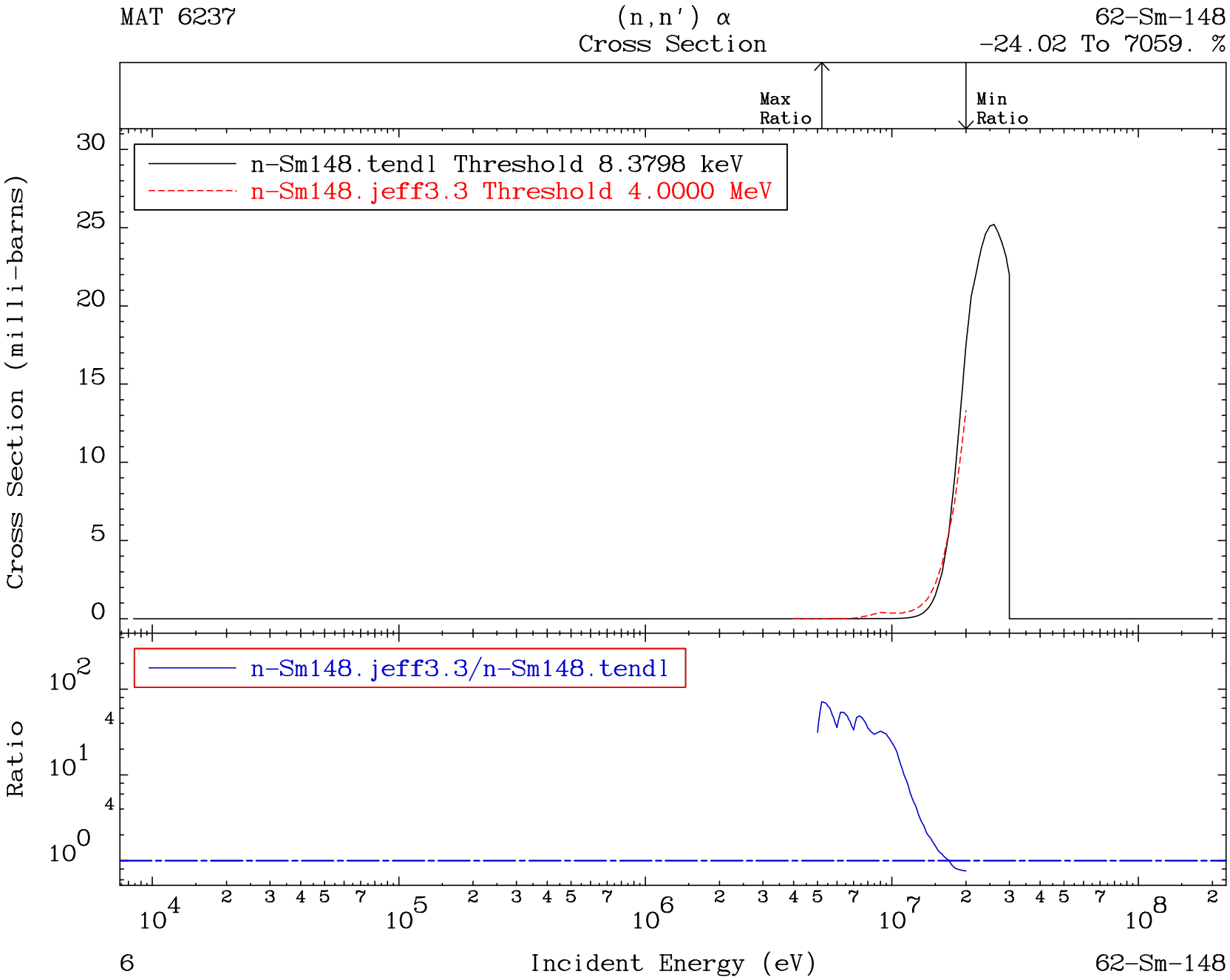

MAT 6237
Total
Cross Section
62-Sm-148
-97.15 To 9999. %
Min Ratio
Max Ratio
n-Sm148.tendl
n-Sm148.jeff3.3
Cross Section (barns)
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
Incident Energy (eV)
1
62-Sm-148

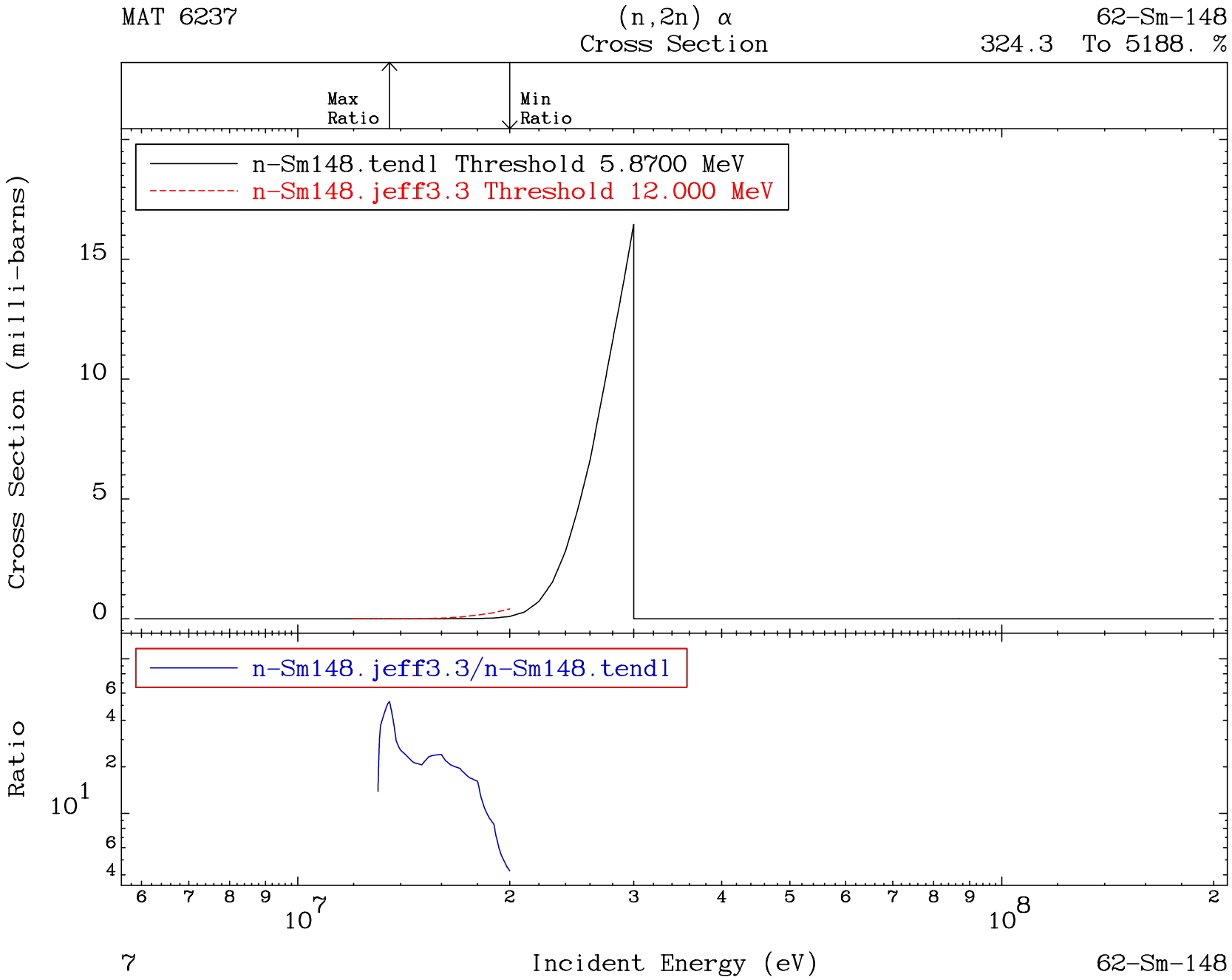

MAT 6237
Elastic
Cross Section
62-Sm-148
-99.93 To 9999. %
Min
Ratio
Max
Ratio
n-Sm148.tendl
n-Sm148.jeff3.3
Cross Section (barns)
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
Incident Energy (eV)
2
62-Sm-148

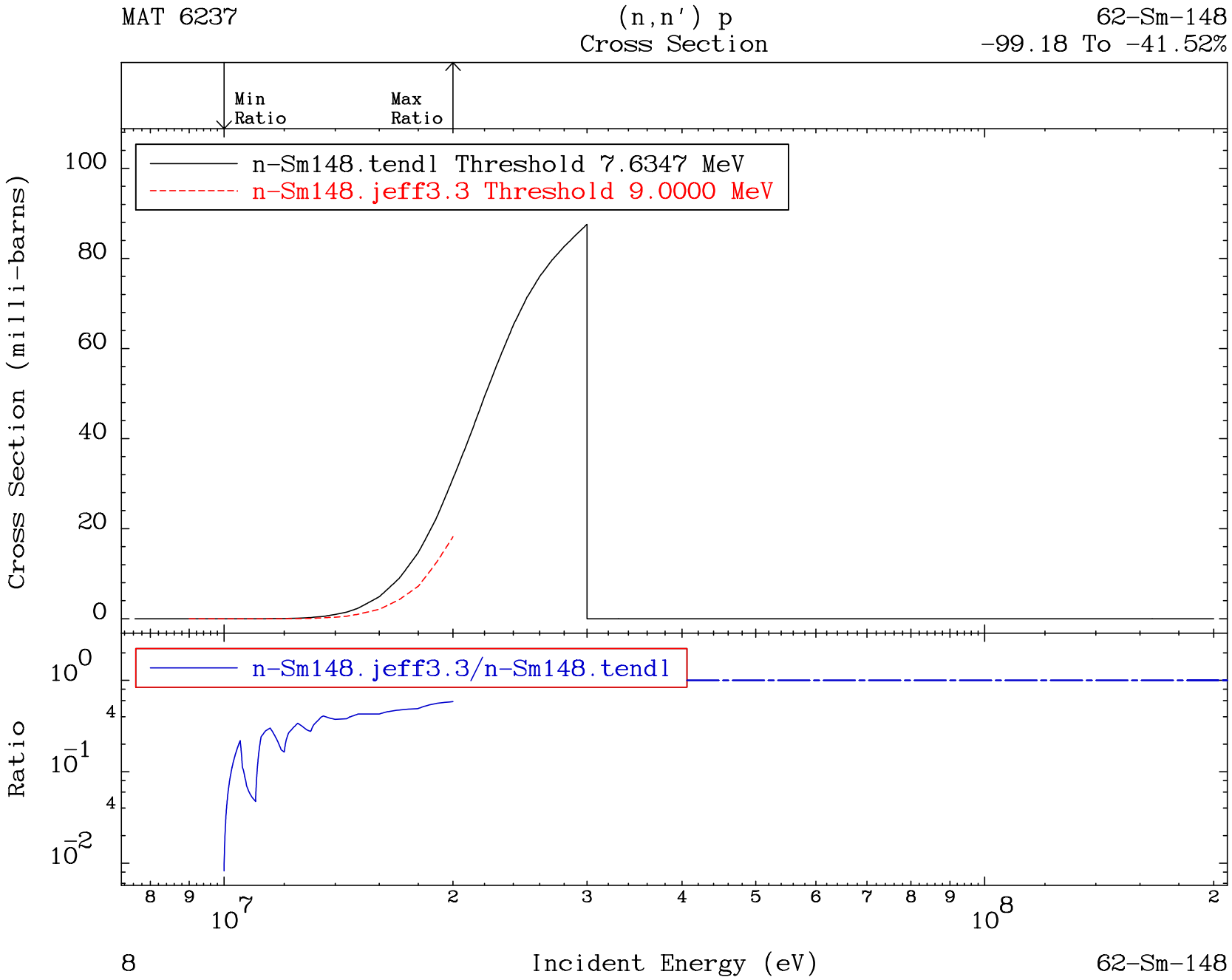

MAT 6237
Inelastic
Cross Section
62-Sm-148
-14.05 To 32.88 %
Min
Ratio
Max
Ratio
n-Sm148.tendl Threshold 554.01 keV
n-Sm148.jeff3.3 Threshold 396.00 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
1.4
1.2
1.0
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
62-Sm-148

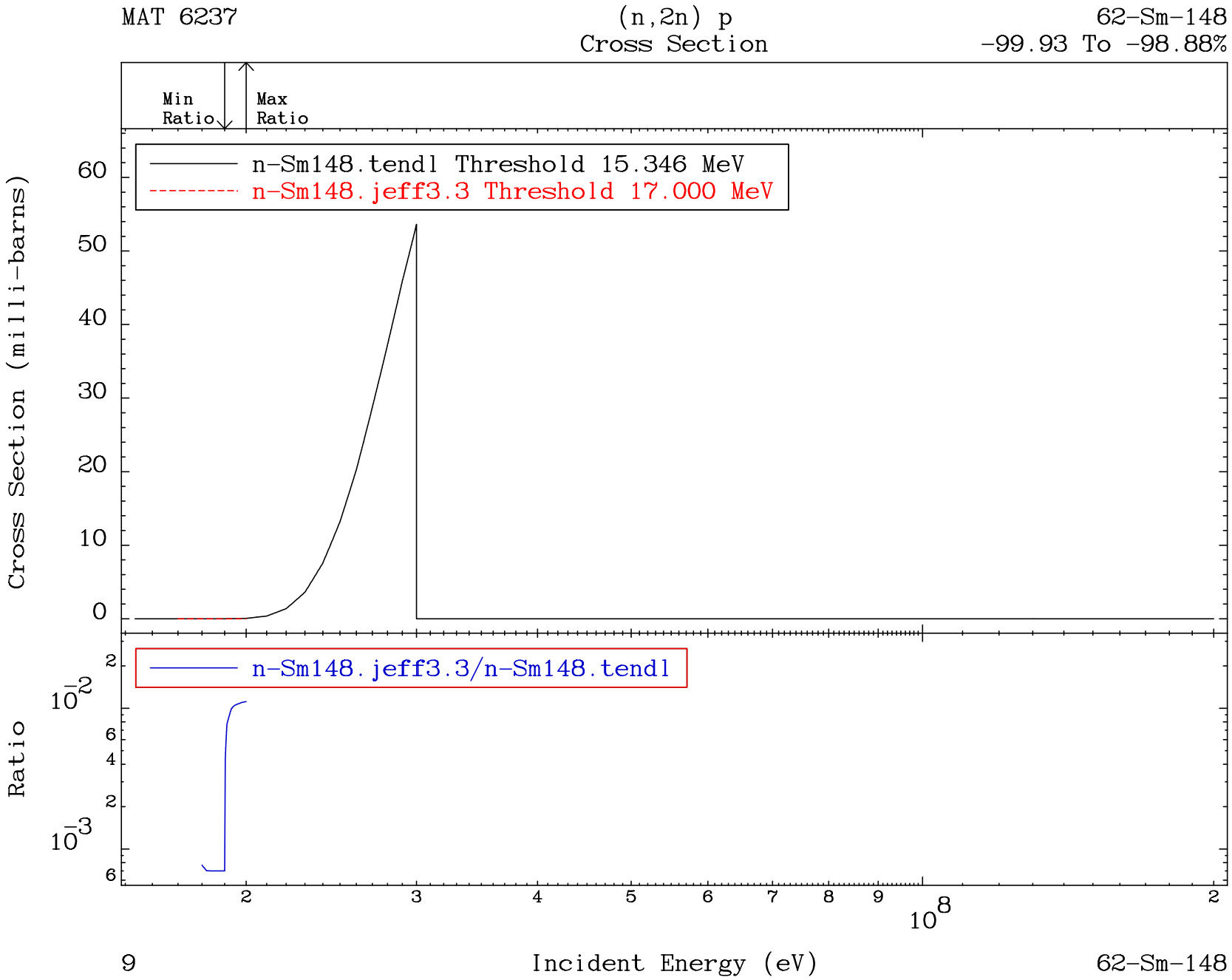

MAT 6237
(n,2n)
Cross Section
62-Sm-148
-18.55 To 31.97 %
Min Ratio
Max Ratio
n-Sm148.tendl Threshold 8.1968 MeV
n-Sm148.jeff3.3 Threshold 8.1968 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
1.4
1.2
1.0
0.8
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
62-Sm-148

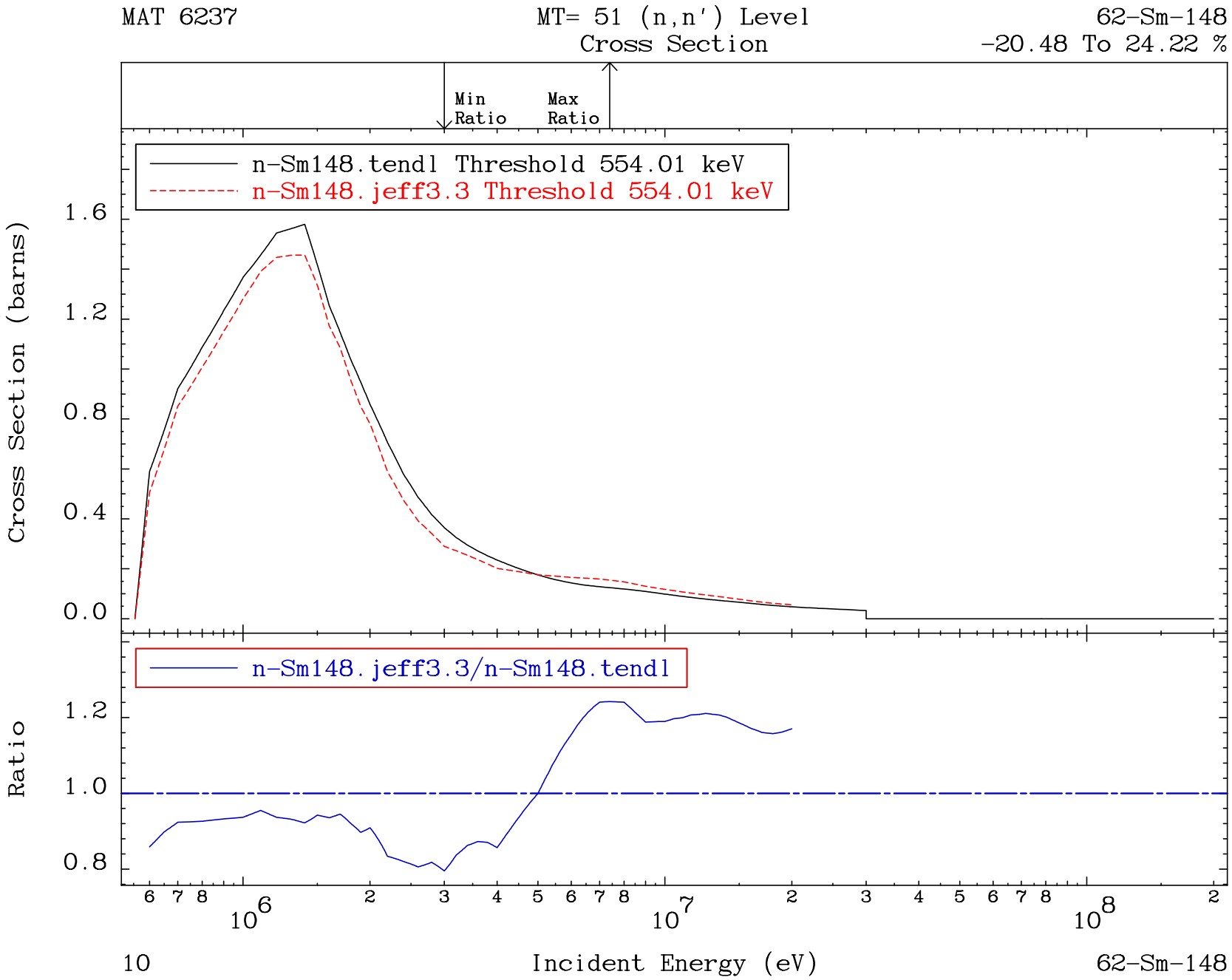

MAT 6237
(n,3n)
Cross Section
62-Sm-148
-72.10 To -25.68%
Min Ratio
Max Ratio
n-Sm148.tendl Threshold 14.581 MeV
n-Sm148.jeff3.3 Threshold 14.581 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
0.8
0.6
0.4
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
62-Sm-148

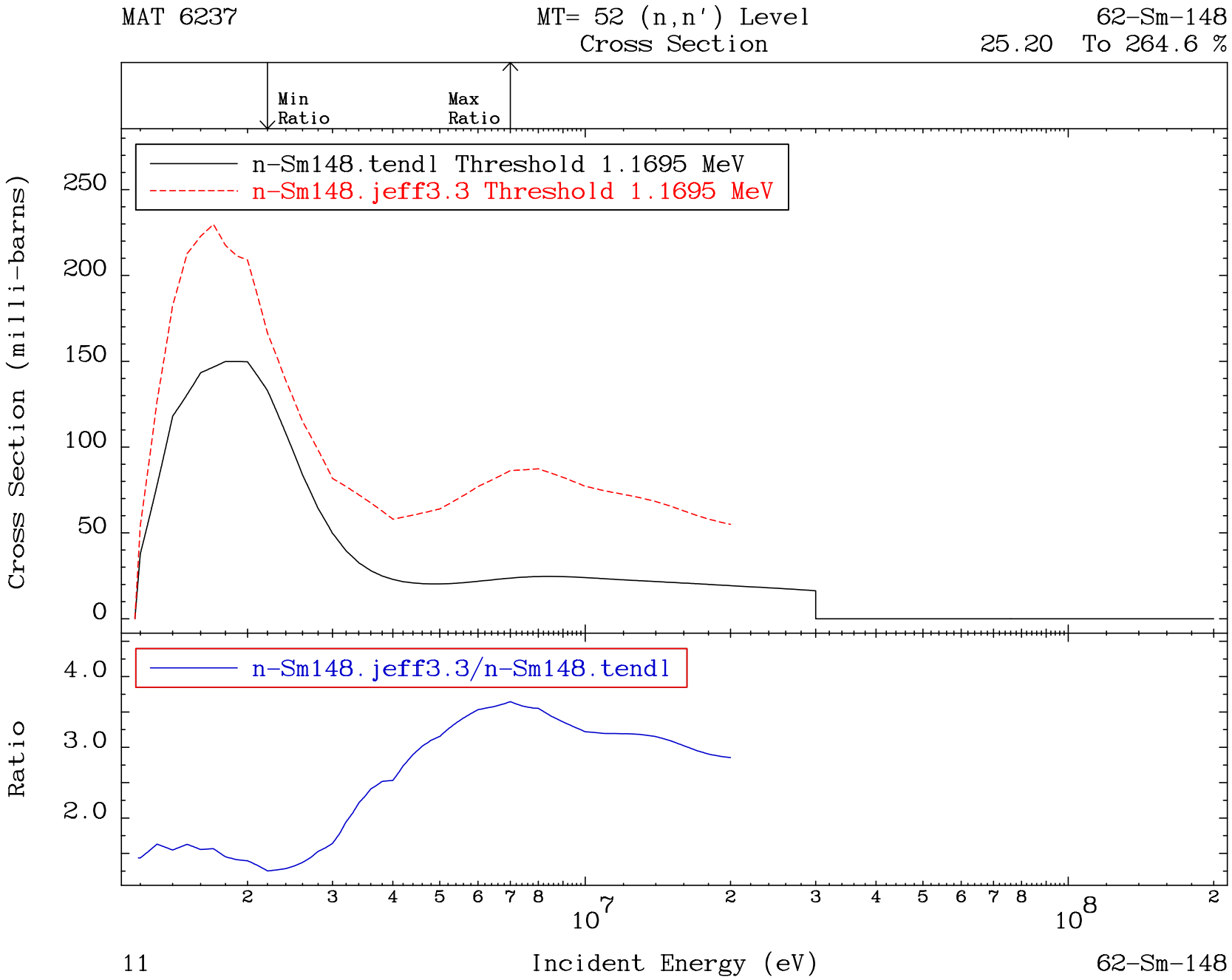

MAT 6237
(n,n') α
Cross Section
62-Sm-148
-24.02 To 7059. %
Max Ratio
Min Ratio
n-Sm148.tendl Threshold 8.3798 keV
n-Sm148.jeff3.3 Threshold 4.0000 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
10^2
4
10^1
4
10^0
10^4
2 3 4 5 7
10^5
2 3 4 5 7
10^6
2 3 4 5 7
10^7
2 3 4 5 7
10^8
2
6
Incident Energy (eV)
62-Sm-148

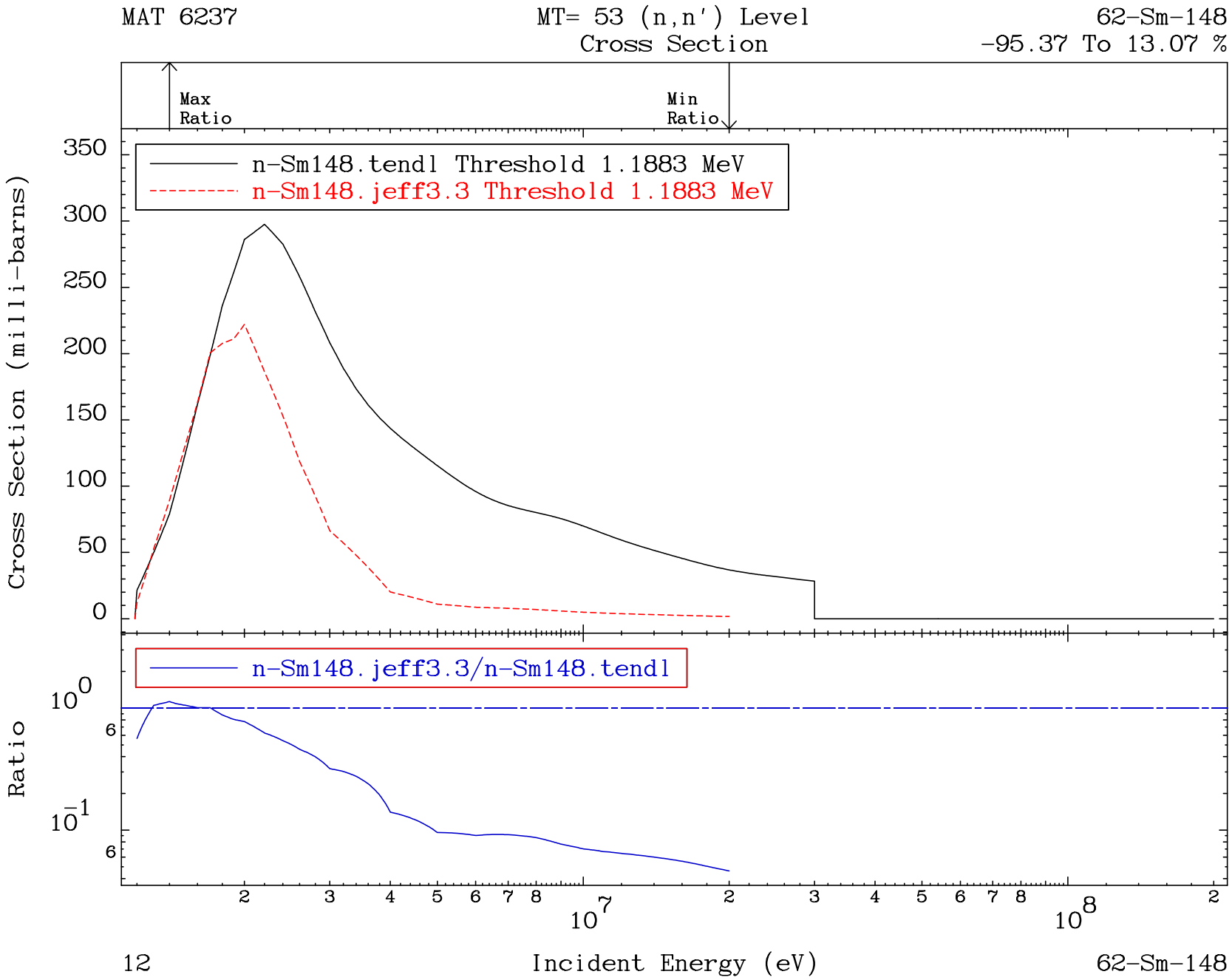

MAT 6237
(n,2n) α
Cross Section
62-Sm-148
324.3 To 5188. %
Max Ratio
Min Ratio
n-Sm148.tendl Threshold 5.8700 MeV
n-Sm148.jeff3.3 Threshold 12.000 MeV
Cross Section (milli-barns)
15
10
5
0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
10^1
6
4
2
6
4
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
62-Sm-148

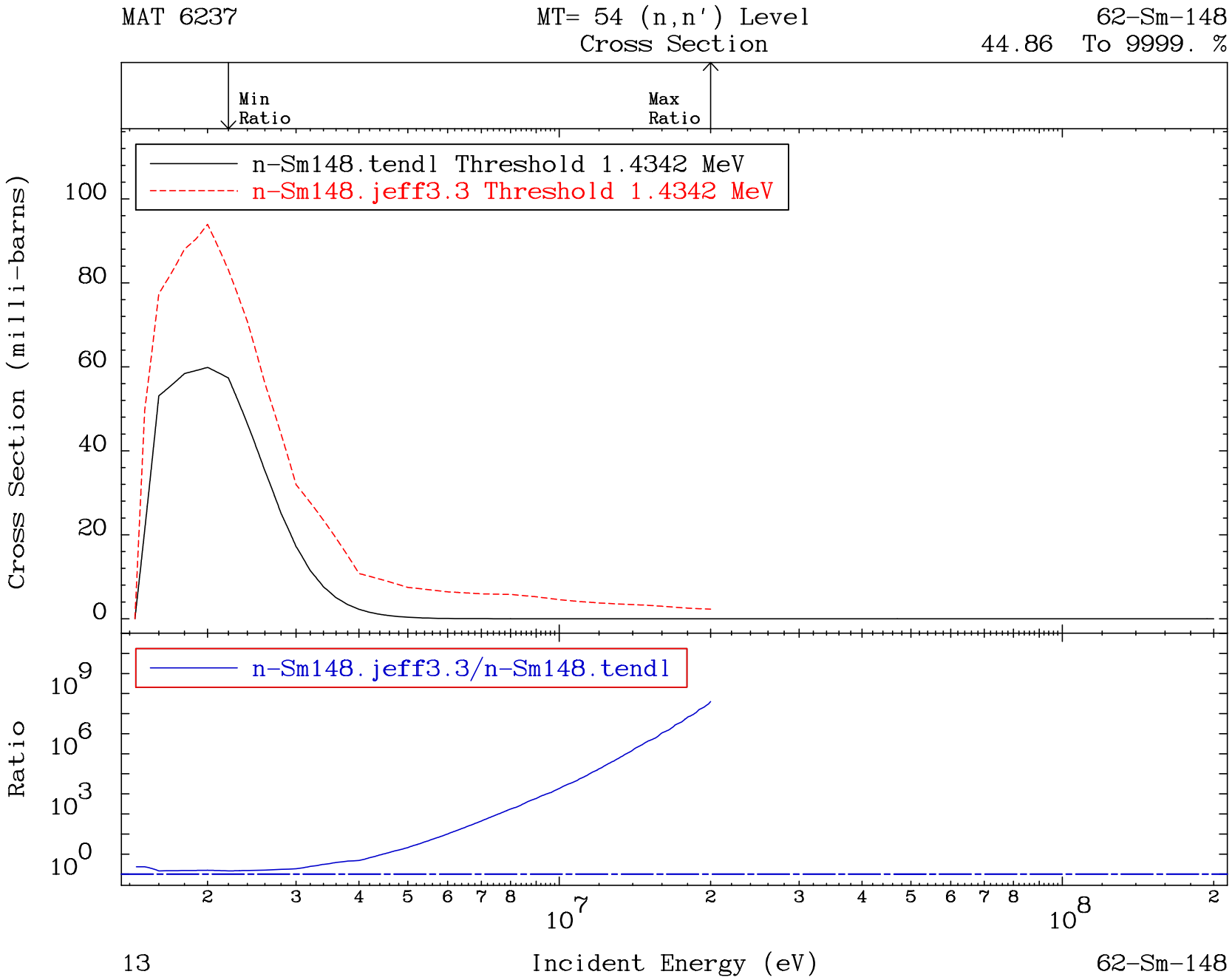

MAT 6237
(n,n') p
Cross Section
62-Sm-148
-99.18 To -41.52%
Min Ratio
Max Ratio
n-Sm148.tendl Threshold 7.6347 MeV
n-Sm148.jeff3.3 Threshold 9.0000 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
10^0
10^-1
10^-2
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
8
Incident Energy (eV)
62-Sm-148

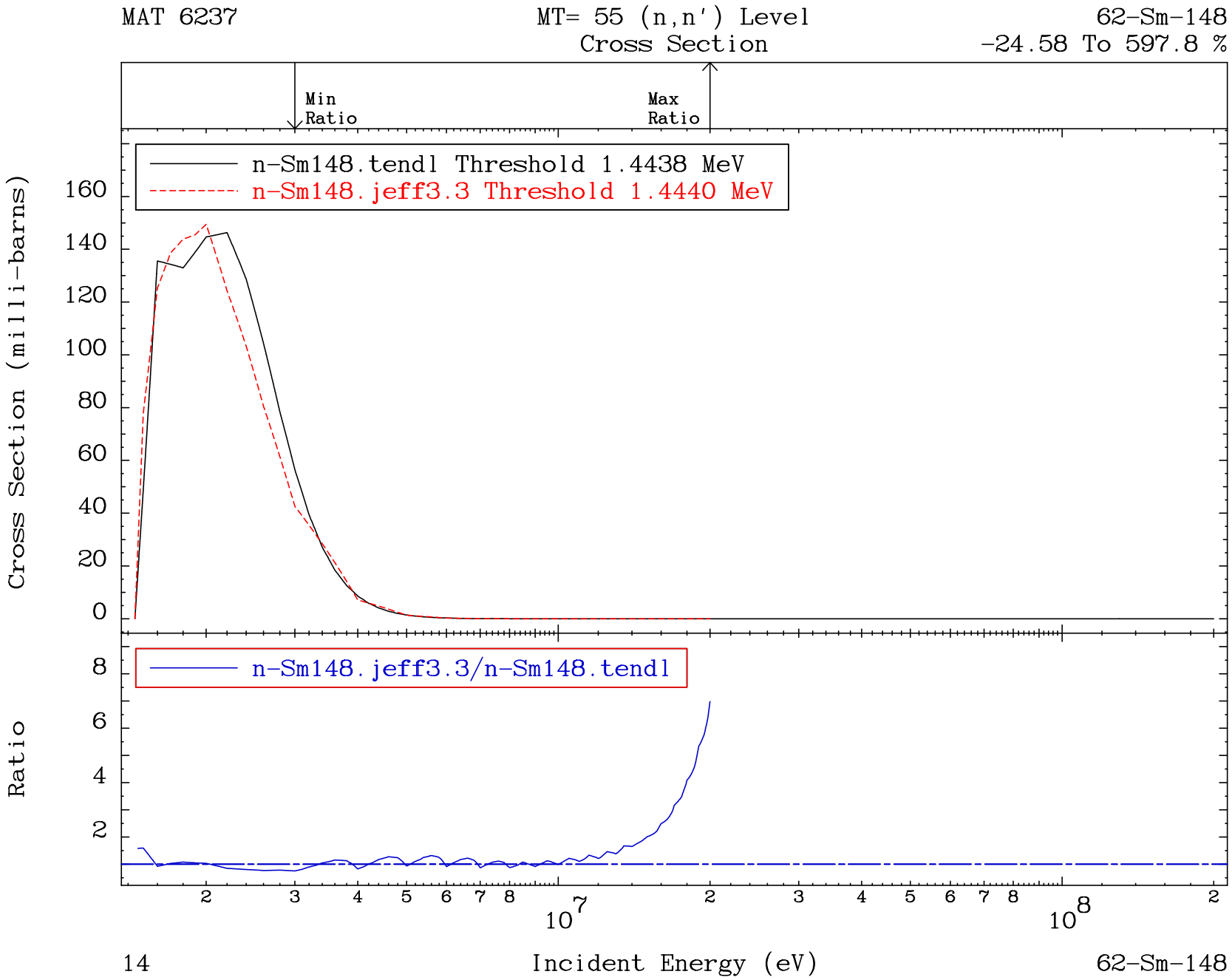

MAT 6237
(n,2n) p
Cross Section
62-Sm-148
-99.93 To -98.88%
Min Ratio
Max Ratio
n-Sm148.tendl Threshold 15.346 MeV
n-Sm148.jeff3.3 Threshold 17.000 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
2
6
4
2
6
2
3
4
5
6
7
8
9
2
Incident Energy (eV)
9
62-Sm-148

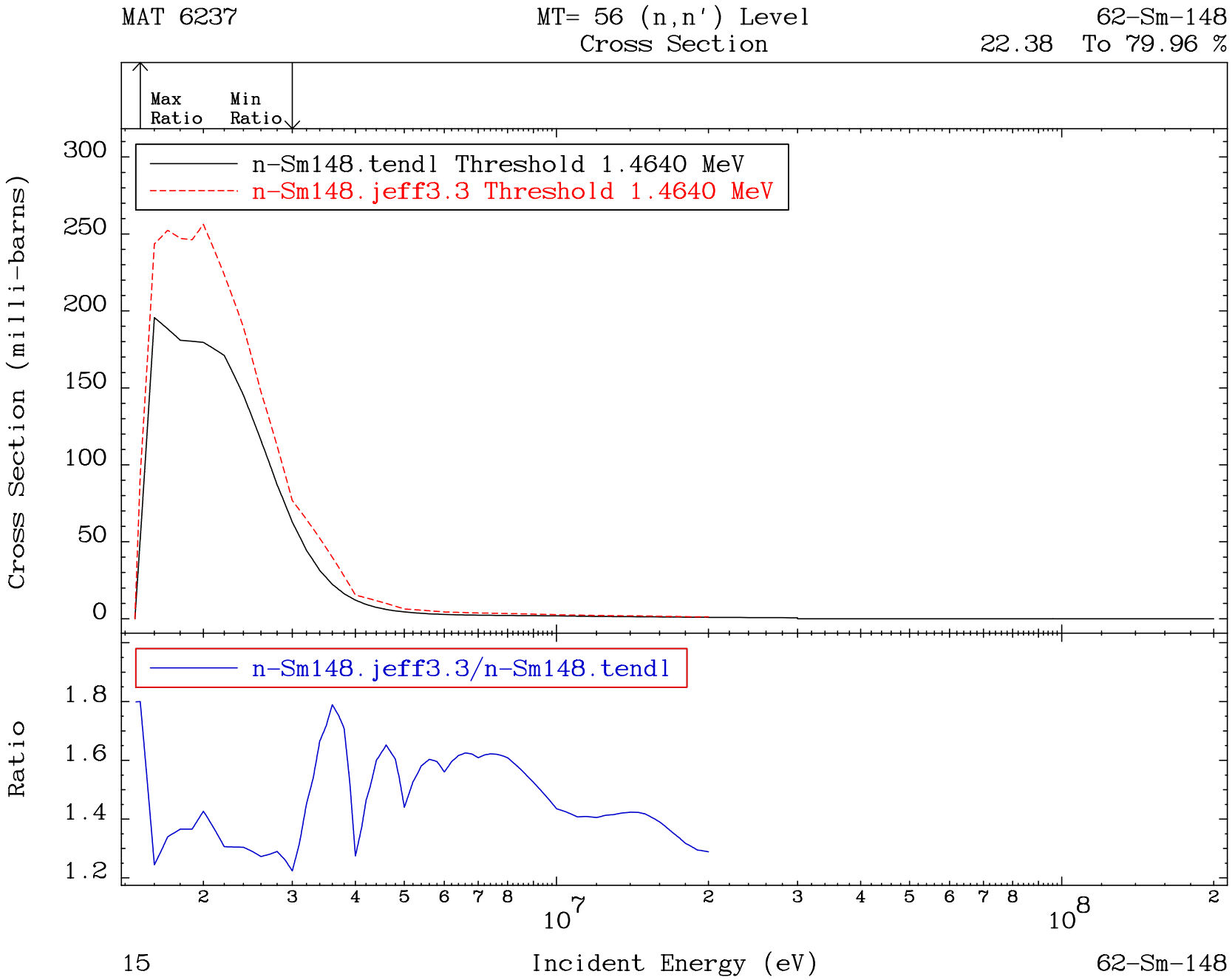

MAT 6237
MT= 51 (n,n') Level
Cross Section
62-Sm-148
-20.48 To 24.22 %
Min Ratio
Max Ratio
n-Sm148.tendl Threshold 554.01 keV
n-Sm148.jeff3.3 Threshold 554.01 keV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
1.2
1.0
0.8
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
10
Incident Energy (eV)
62-Sm-148

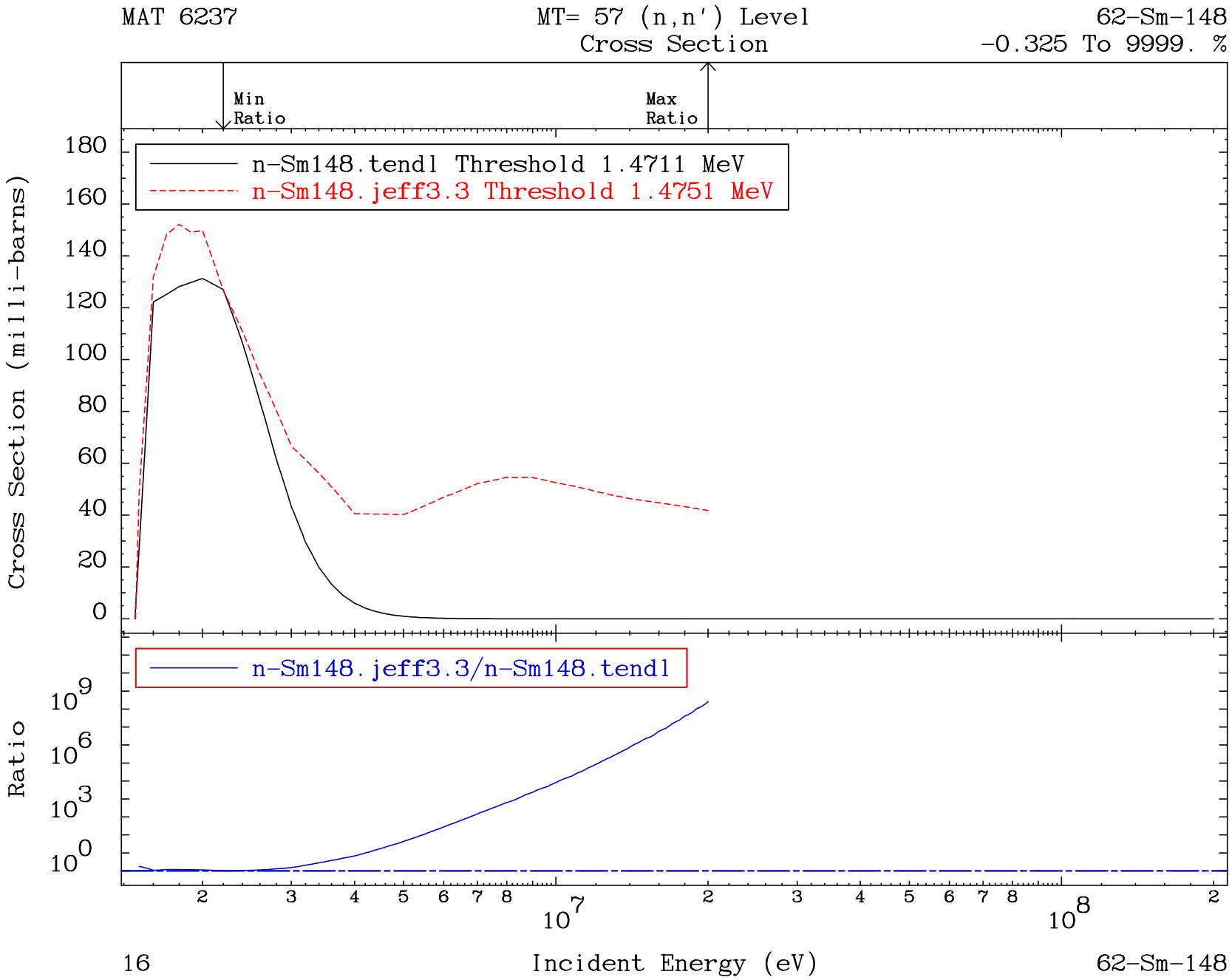

MAT 6237
MT= 52 (n,n') Level
Cross Section
62-Sm-148
25.20 To 264.6 %
Min Ratio
Max Ratio
n-Sm148.tendl Threshold 1.1695 MeV
n-Sm148.jeff3.3 Threshold 1.1695 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
4.0
3.0
2.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
62-Sm-148

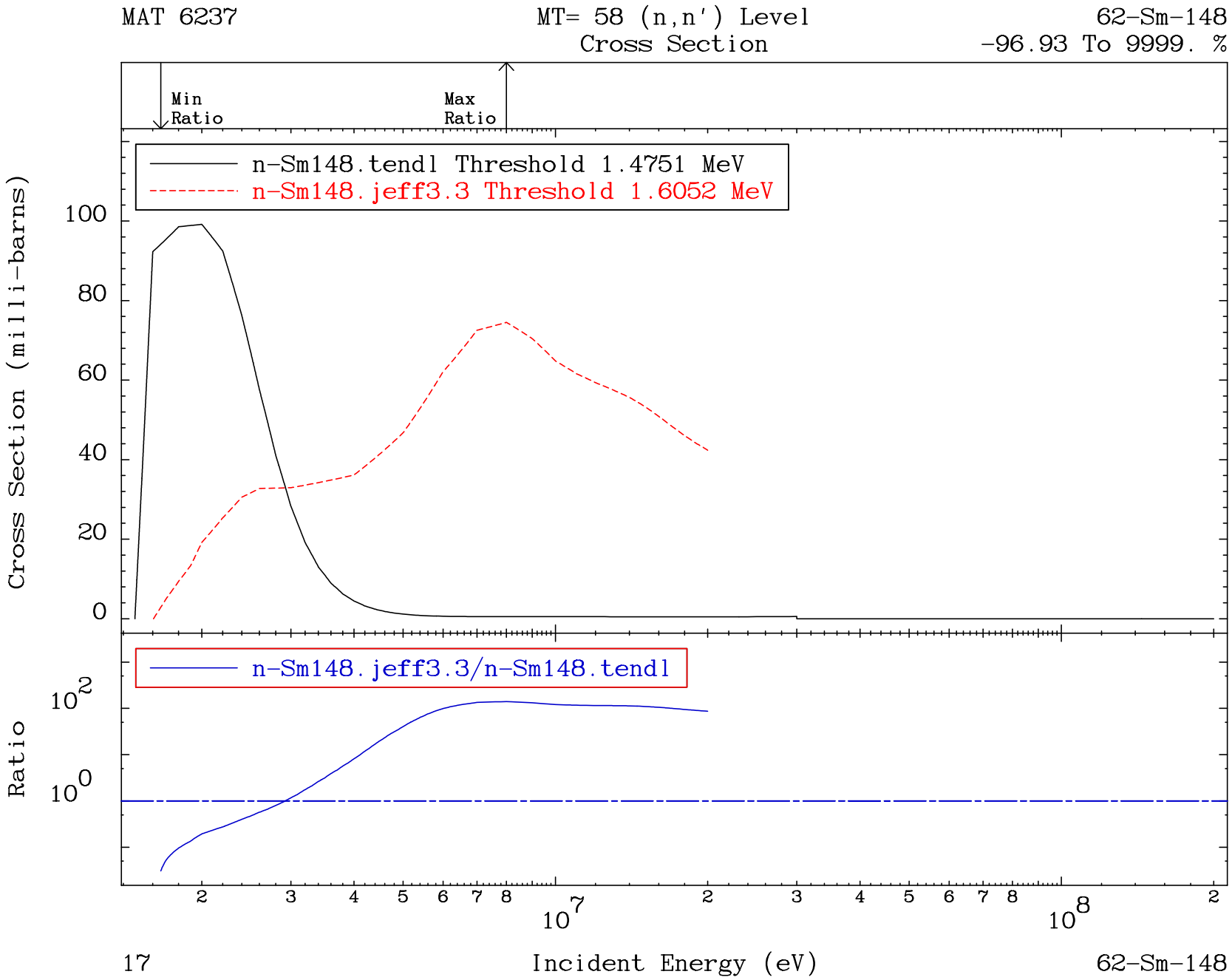

MAT 6237
MT= 53 (n,n') Level
Cross Section
62-Sm-148
-95.37 To 13.07 %
Max Ratio
Min Ratio
n-Sm148.tendl Threshold 1.1883 MeV
n-Sm148.jeff3.3 Threshold 1.1883 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
10^0
6
10^-1
6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
12
Incident Energy (eV)
62-Sm-148

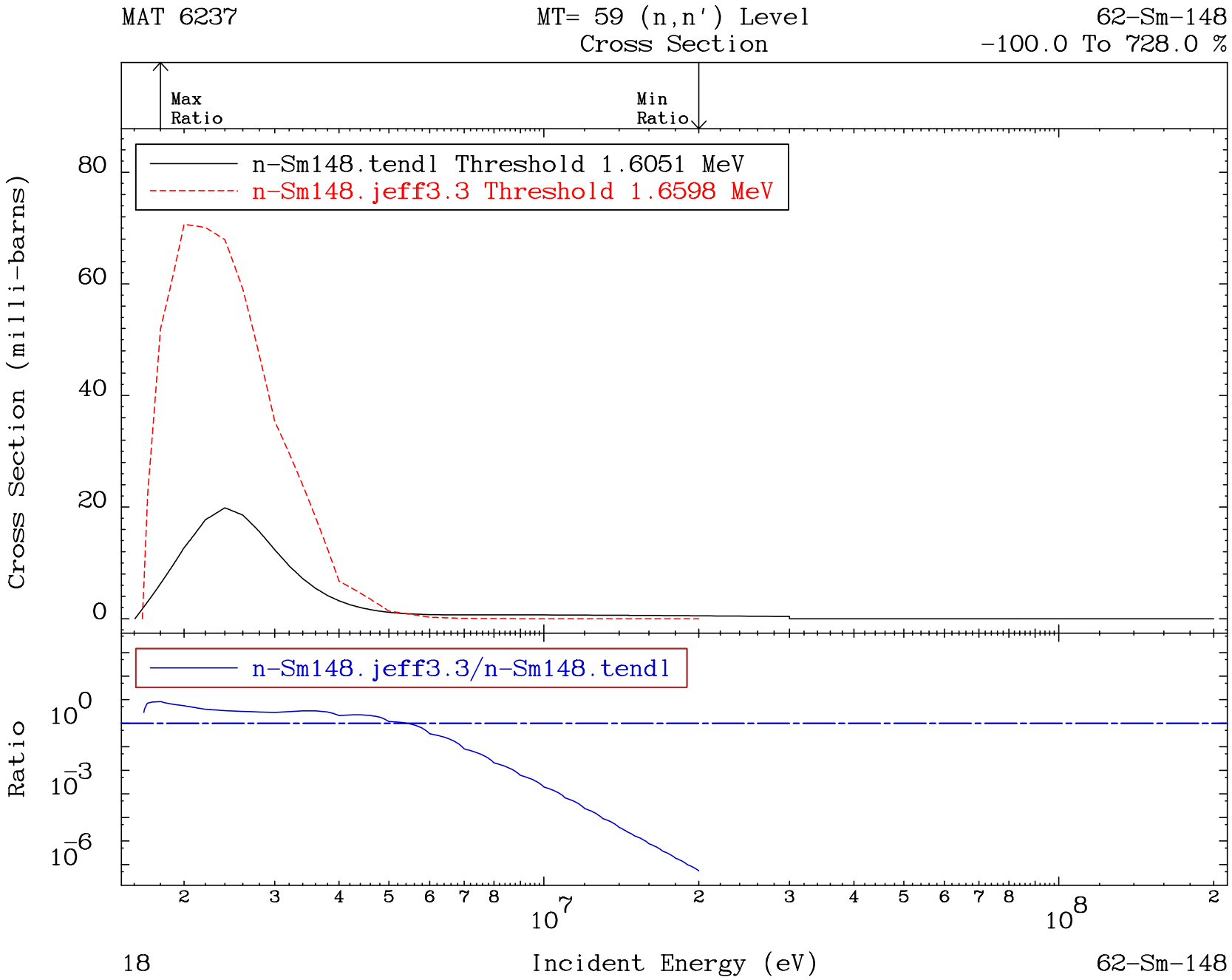

MAT 6237
MT= 54 (n,n') Level
Cross Section
62-Sm-148
44.86 To 9999. %
Min Ratio
Max Ratio
n-Sm148.tendl Threshold 1.4342 MeV
n-Sm148.jeff3.3 Threshold 1.4342 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
10^9
10^6
10^3
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
62-Sm-148

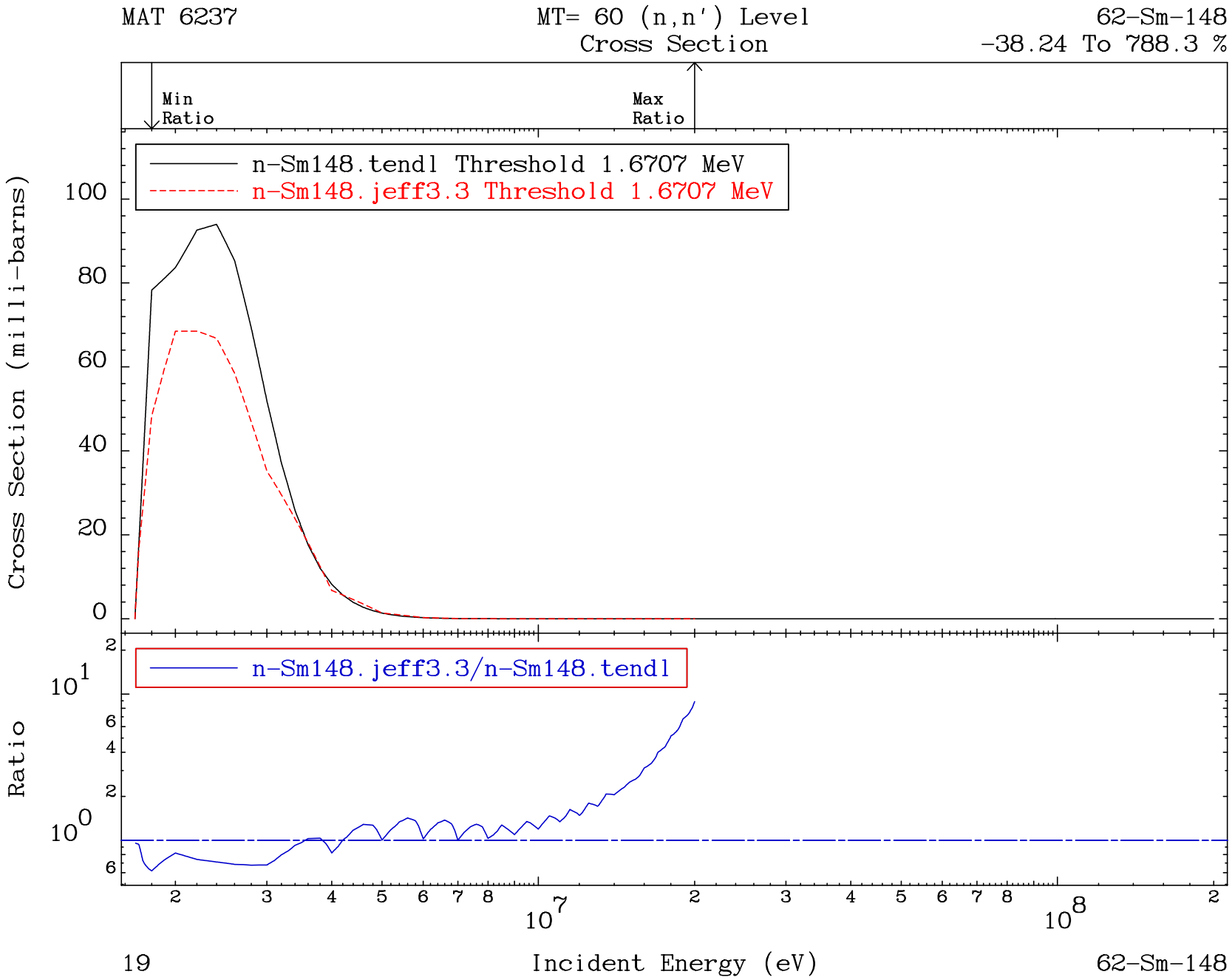

MAT 6237
MT= 55 (n,n') Level
Cross Section
62-Sm-148
-24.58 To 597.8 %
Min
Ratio
Max
Ratio
n-Sm148.tendl Threshold 1.4438 MeV
n-Sm148.jeff3.3 Threshold 1.4440 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
8
6
4
2
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
14
Incident Energy (eV)
62-Sm-148

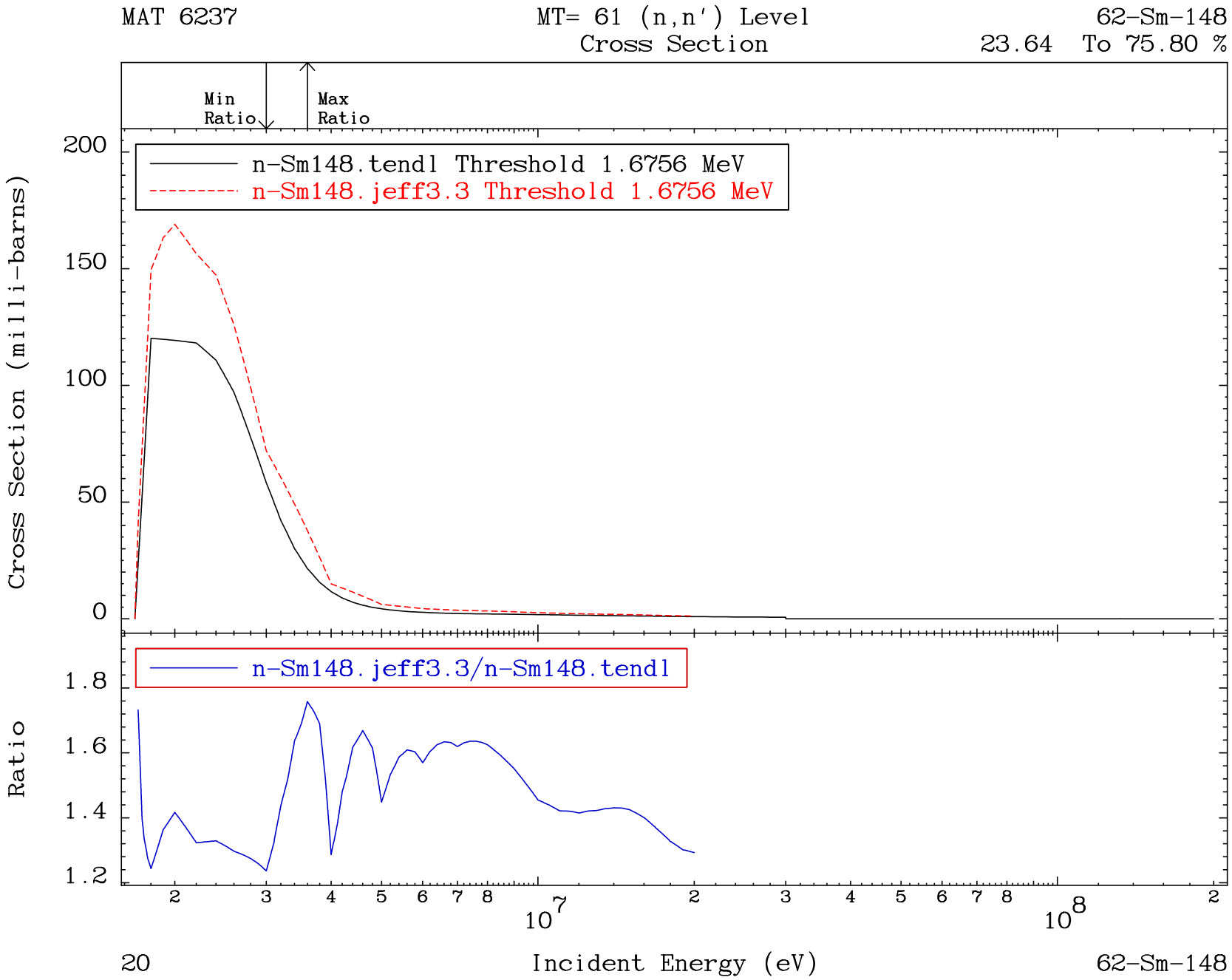

MAT 6237
MT= 56 (n,n') Level
Cross Section
62-Sm-148
22.38 To 79.96 %
Max Ratio
Min Ratio
n-Sm148.tendl Threshold 1.4640 MeV
n-Sm148.jeff3.3 Threshold 1.4640 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
1.8
1.6
1.4
1.2
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
15
Incident Energy (eV)
62-Sm-148

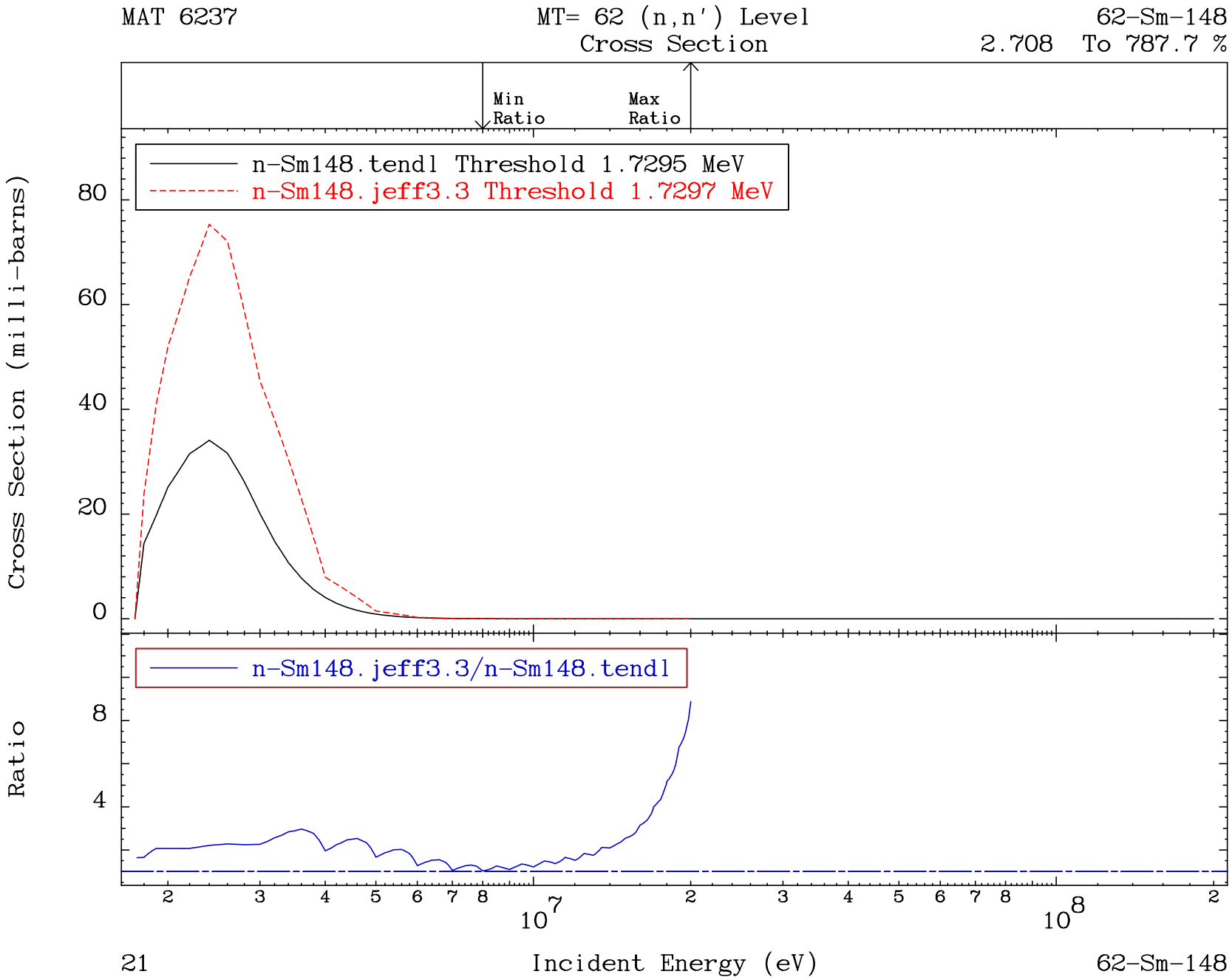

MAT 6237
MT= 57 (n,n') Level
Cross Section
62-Sm-148
-0.325 To 9999. %
Min
Ratio
Max
Ratio
n-Sm148.tendl Threshold 1.4711 MeV
n-Sm148.jeff3.3 Threshold 1.4751 MeV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
10^9
10^6
10^3
10^0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
16
Incident Energy (eV)
62-Sm-148

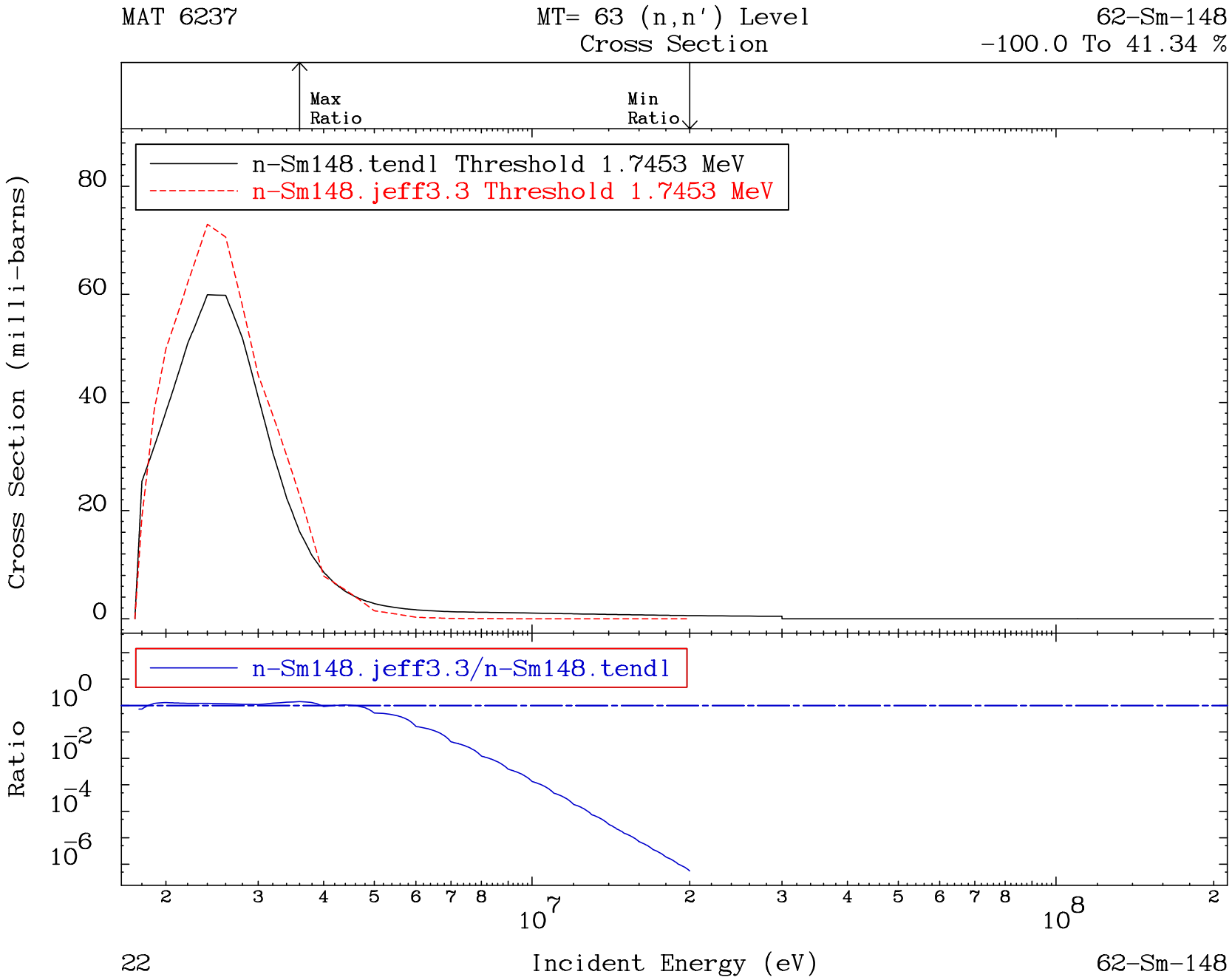

MAT 6237
MT= 58 (n,n') Level
Cross Section
62-Sm-148
-96.93 To 9999. %
Min Ratio
Max Ratio
n-Sm148.tendl Threshold 1.4751 MeV
n-Sm148.jeff3.3 Threshold 1.6052 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
10^2
10^0
2
3
4
5
6
7
8
10^7
10^8
17
Incident Energy (eV)
62-Sm-148

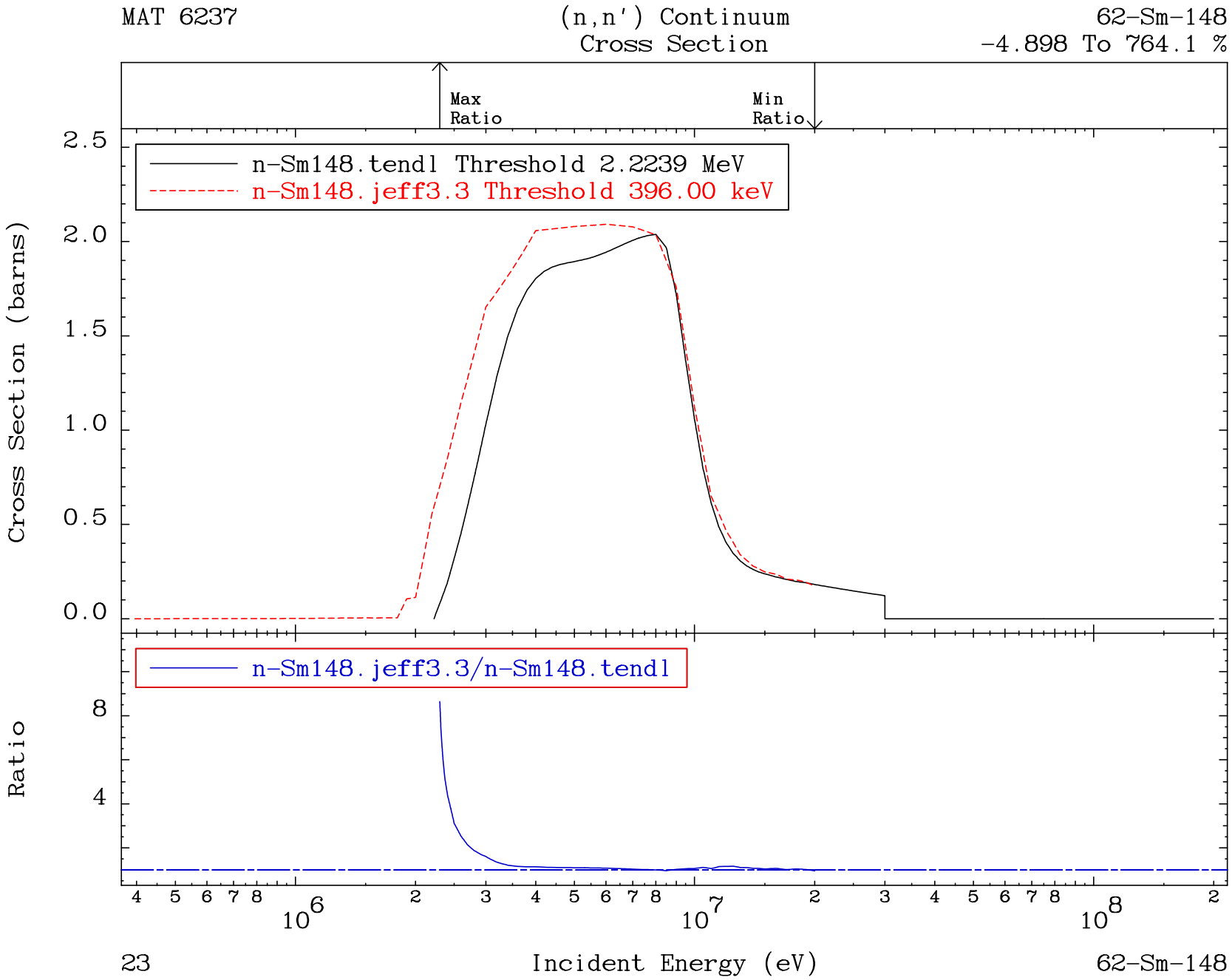

MAT 6237
MT= 59 (n,n') Level
Cross Section
62-Sm-148
-100.0 To 728.0 %
Max Ratio
Min Ratio
n-Sm148.tendl Threshold 1.6051 MeV
n-Sm148.jeff3.3 Threshold 1.6598 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
62-Sm-148

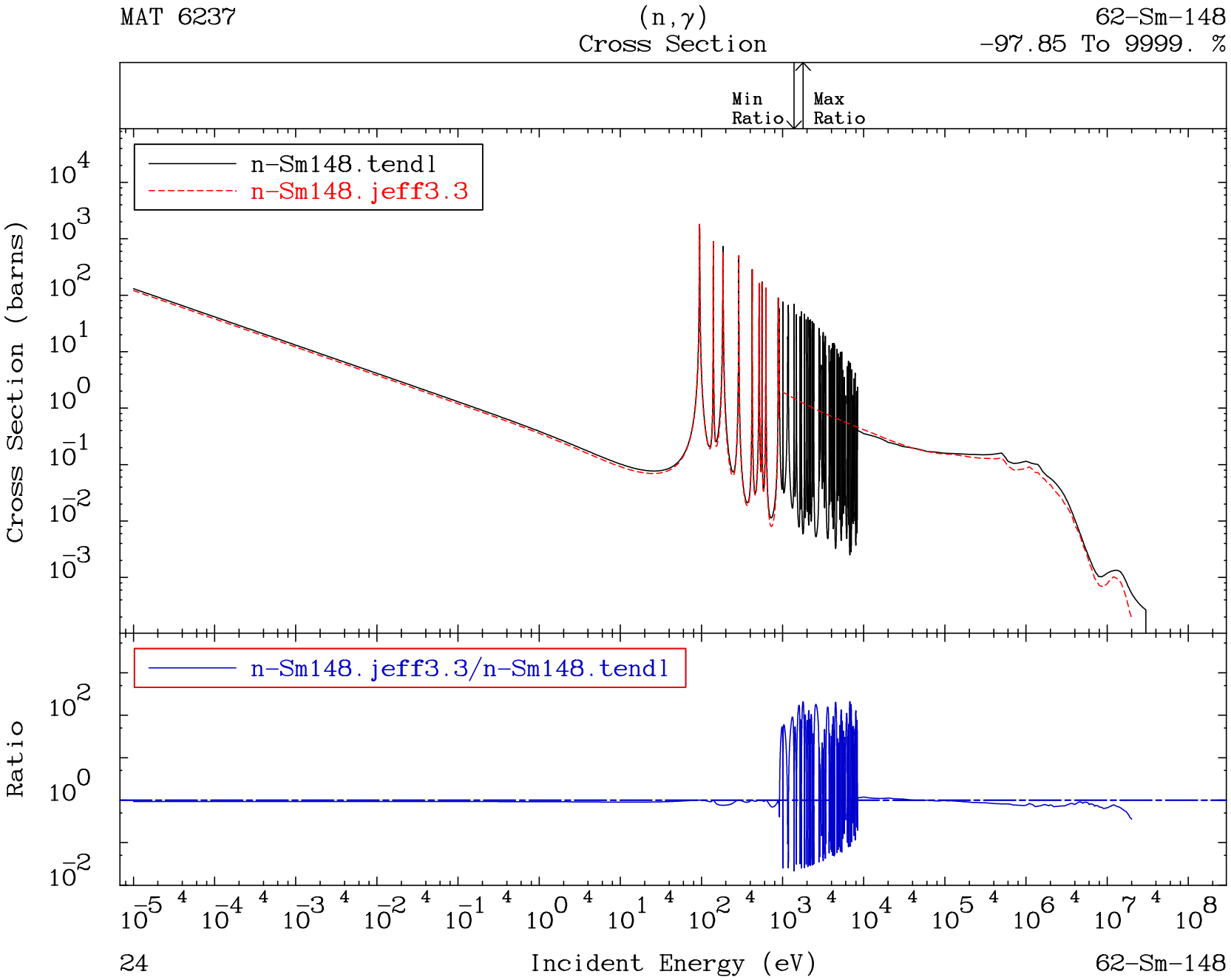

MAT 6237
MT= 60 (n,n') Level
Cross Section
62-Sm-148
-38.24 To 788.3 %
Min Ratio
Max Ratio
n-Sm148.tendl Threshold 1.6707 MeV
n-Sm148.jeff3.3 Threshold 1.6707 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
10^1
10^0
2
6
4
2
6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
62-Sm-148

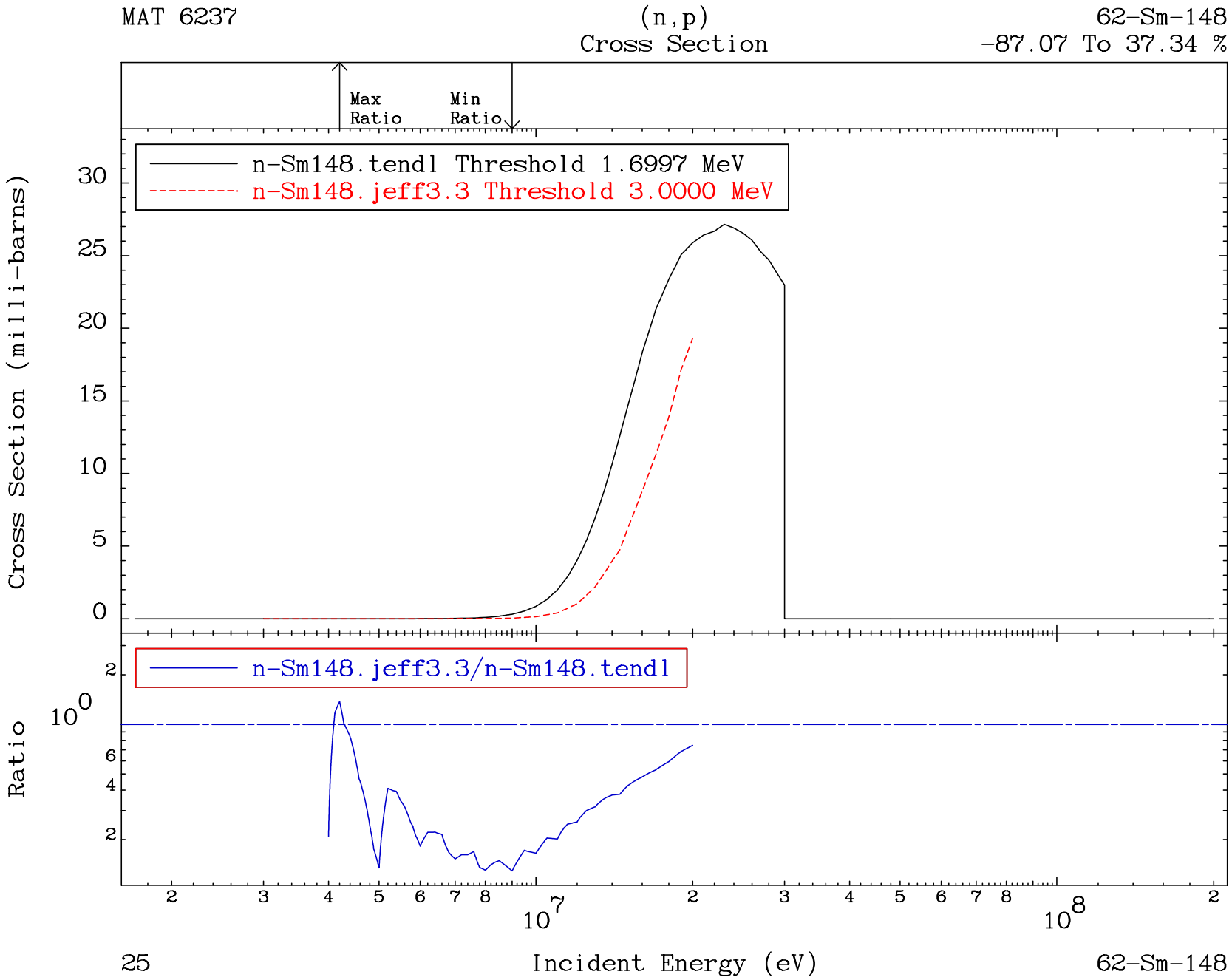

MAT 6237
MT= 61 (n,n') Level
Cross Section
62-Sm-148
23.64 To 75.80 %
Min Ratio
Max Ratio
n-Sm148.tendl Threshold 1.6756 MeV
n-Sm148.jeff3.3 Threshold 1.6756 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
1.8
1.6
1.4
1.2
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
62-Sm-148

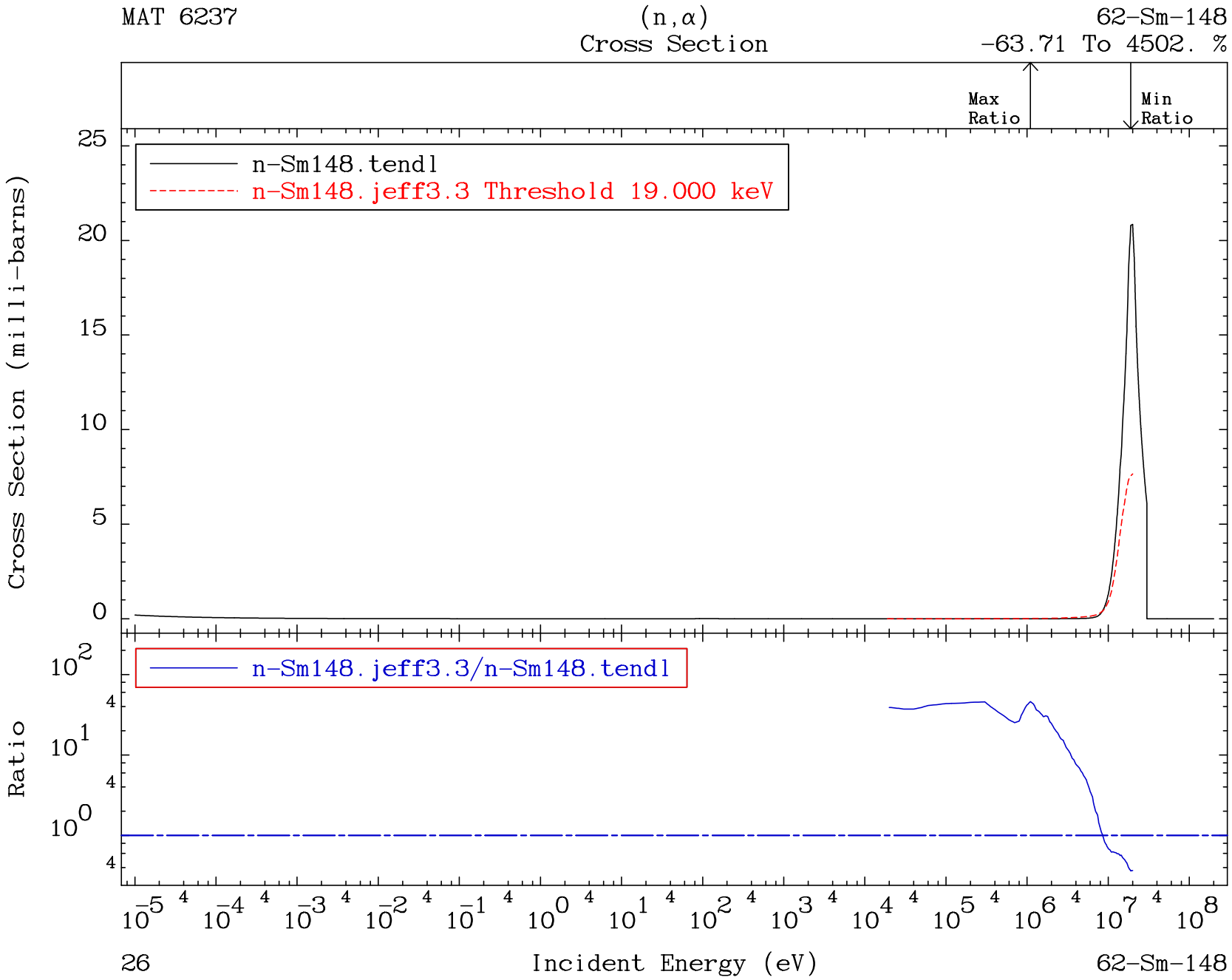

MAT 6237
MT= 62 (n,n') Level
Cross Section
62-Sm-148
2.708 To 787.7 %
Min Ratio
Max Ratio
n-Sm148.tendl Threshold 1.7295 MeV
n-Sm148.jeff3.3 Threshold 1.7297 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
8
4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
21
Incident Energy (eV)
62-Sm-148

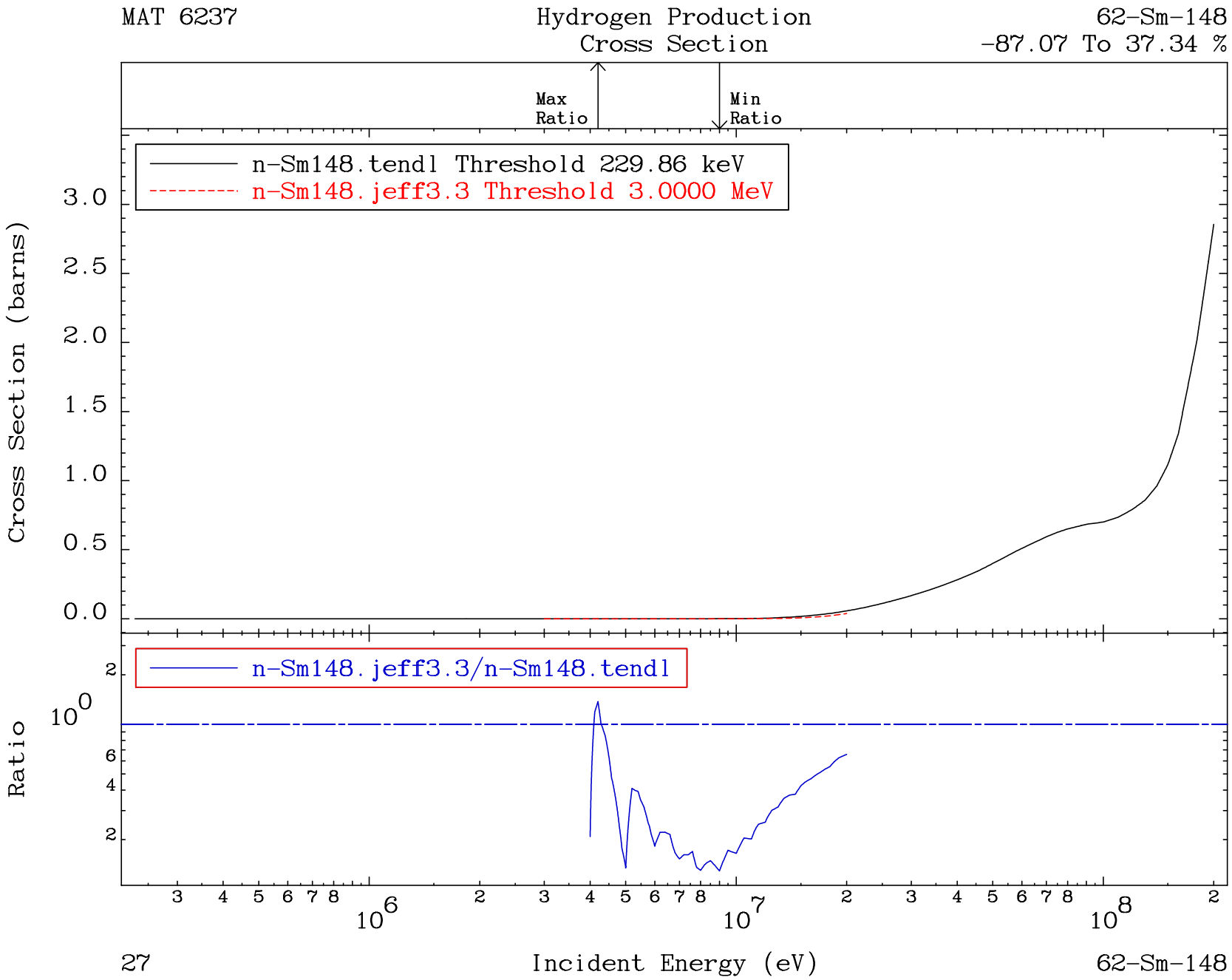

MAT 6237
MT= 63 (n,n') Level
Cross Section
62-Sm-148
-100.0 To 41.34 %
Max Ratio
Min Ratio
n-Sm148.tendl Threshold 1.7453 MeV
n-Sm148.jeff3.3 Threshold 1.7453 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
10^0
10^-2
10^-4
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
62-Sm-148

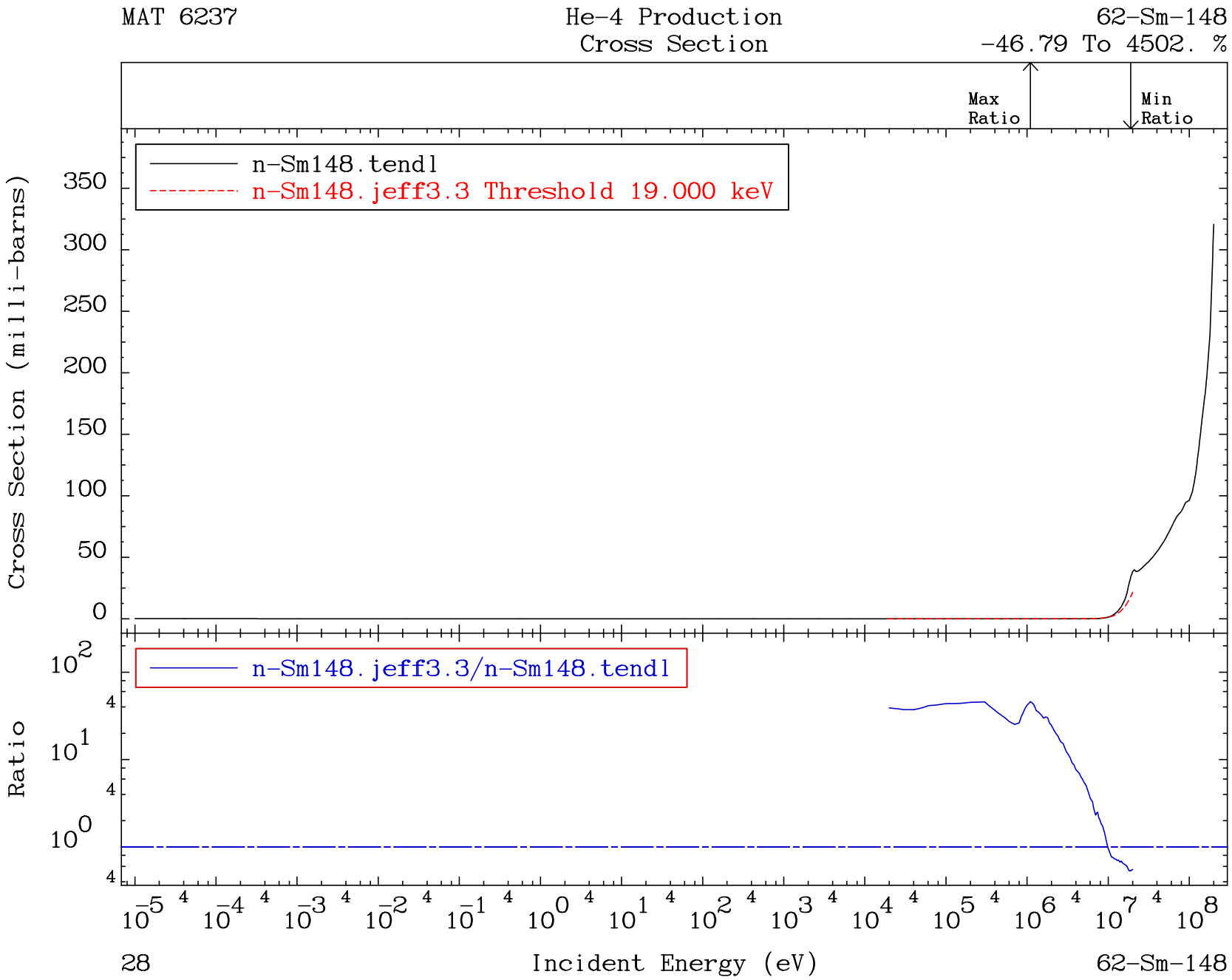

MAT 6237
(n,n') Continuum
Cross Section
62-Sm-148
-4.898 To 764.1 %
Max
Ratio
Min
Ratio
n-Sm148.tendl Threshold 2.2239 MeV
n-Sm148.jeff3.3 Threshold 396.00 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
8
4
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
62-Sm-148

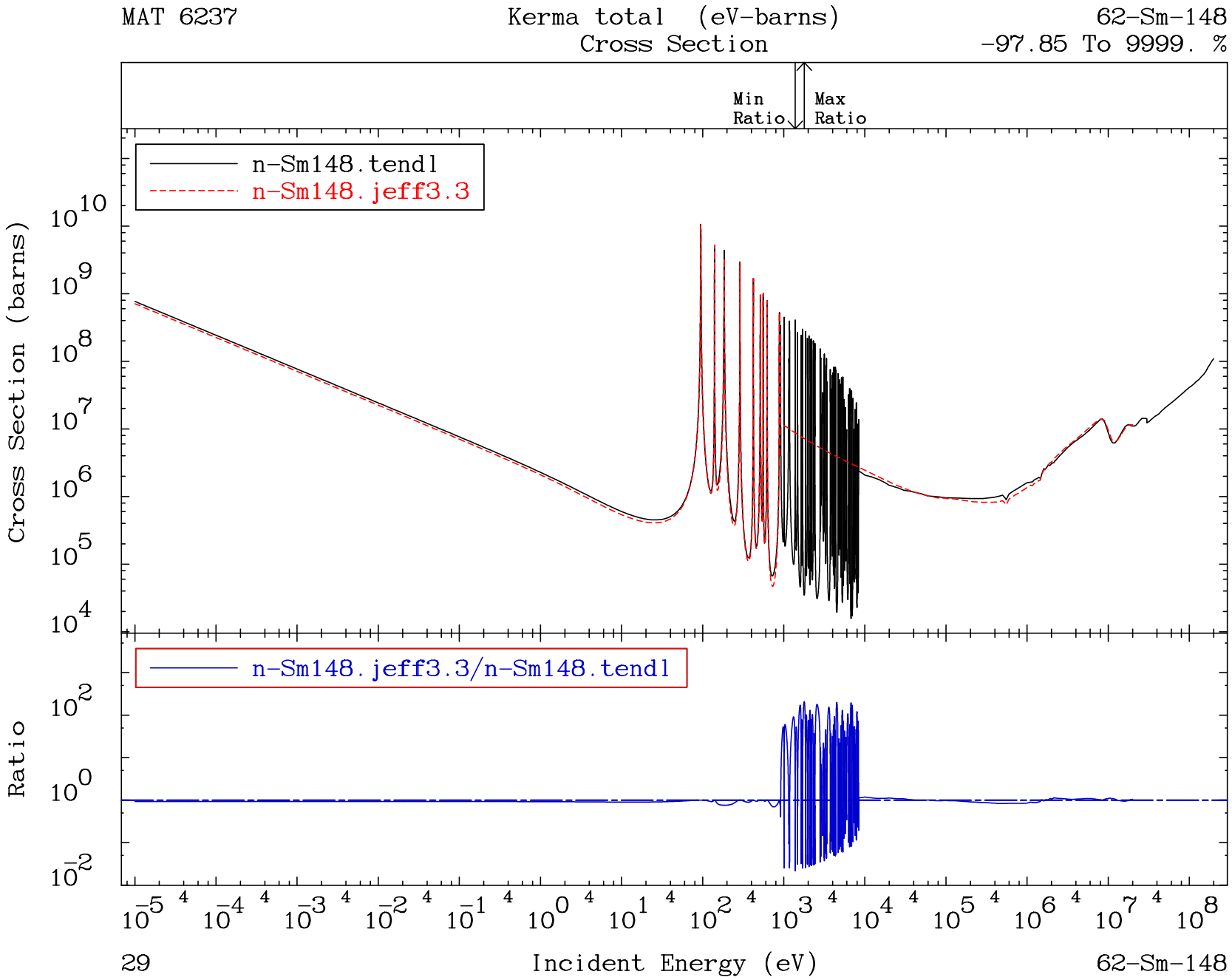

MAT 6237
(n,γ)
Cross Section
62-Sm-148
-97.85 To 9999. %
Min Ratio
Max Ratio
n-Sm148.tendl
n-Sm148.jeff3.3
Cross Section (barns)
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
Incident Energy (eV)
24
62-Sm-148

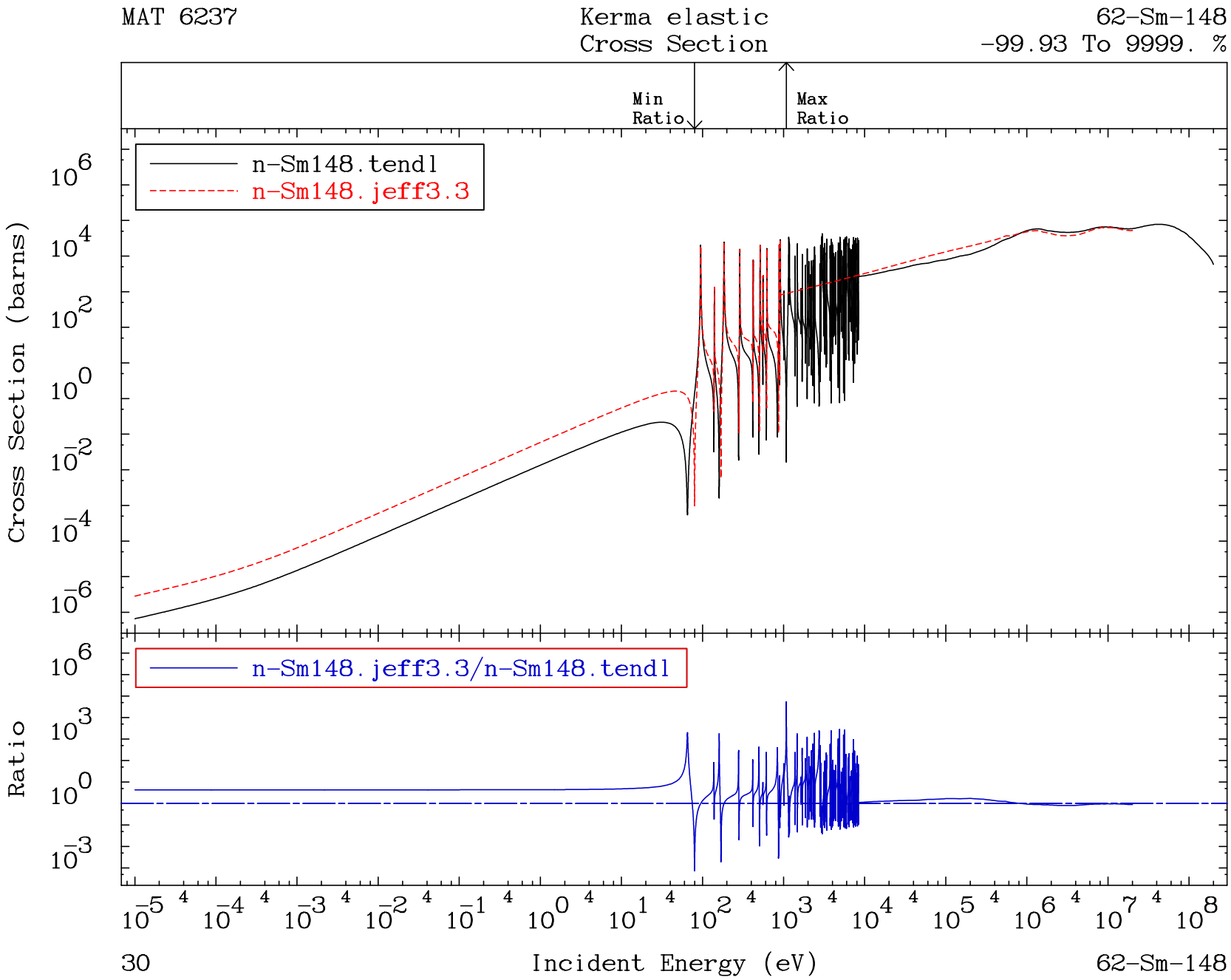

MAT 6237
(n,p)
Cross Section
62-Sm-148
-87.07 To 37.34 %
Max Ratio
Min Ratio
n-Sm148.tendl Threshold 1.6997 MeV
n-Sm148.jeff3.3 Threshold 3.0000 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
2
10^0
6
4
2
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
62-Sm-148

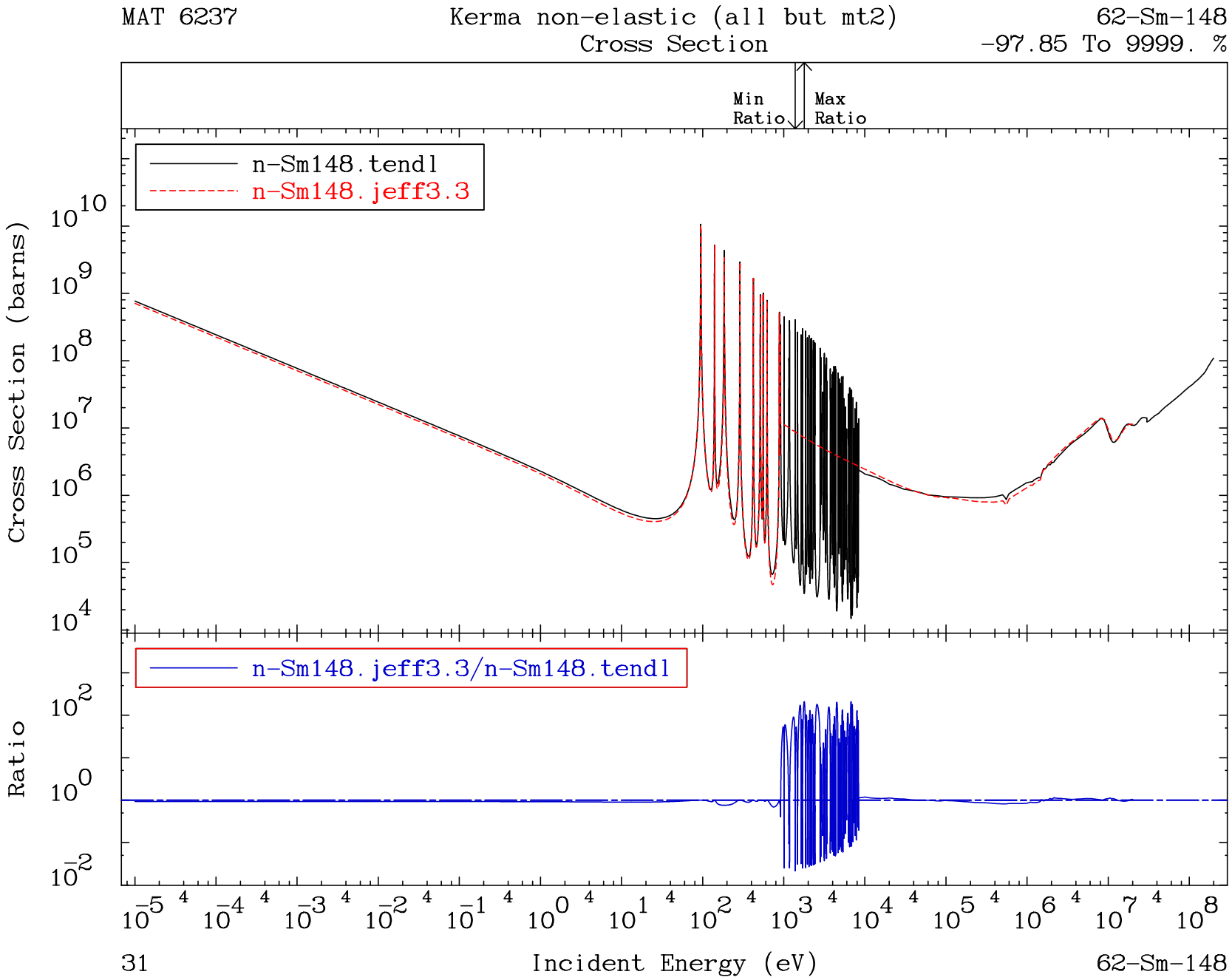

MAT 6237
(n,α)
Cross Section
62-Sm-148
-63.71 To 4502. %
Max Ratio
Min Ratio
n-Sm148.tendl
n-Sm148.jeff3.3 Threshold 19.000 keV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
10^2
10^1
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
26
Incident Energy (eV)
62-Sm-148

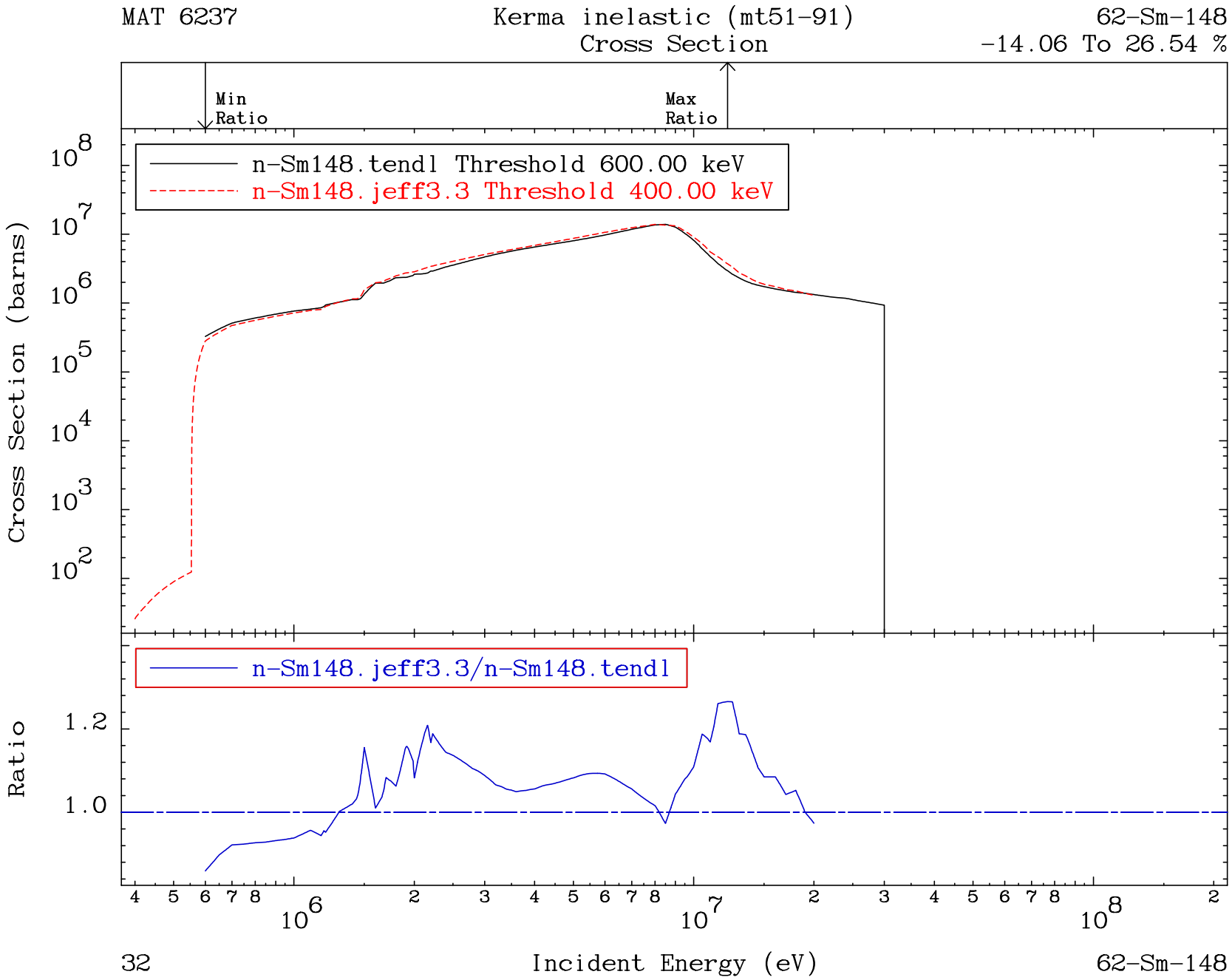

MAT 6237
Hydrogen Production
Cross Section
62-Sm-148
-87.07 To 37.34 %
Max Ratio
Min Ratio
n-Sm148.tendl Threshold 229.86 keV
n-Sm148.jeff3.3 Threshold 3.0000 MeV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
2
10^0
6
4
2
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
62-Sm-148

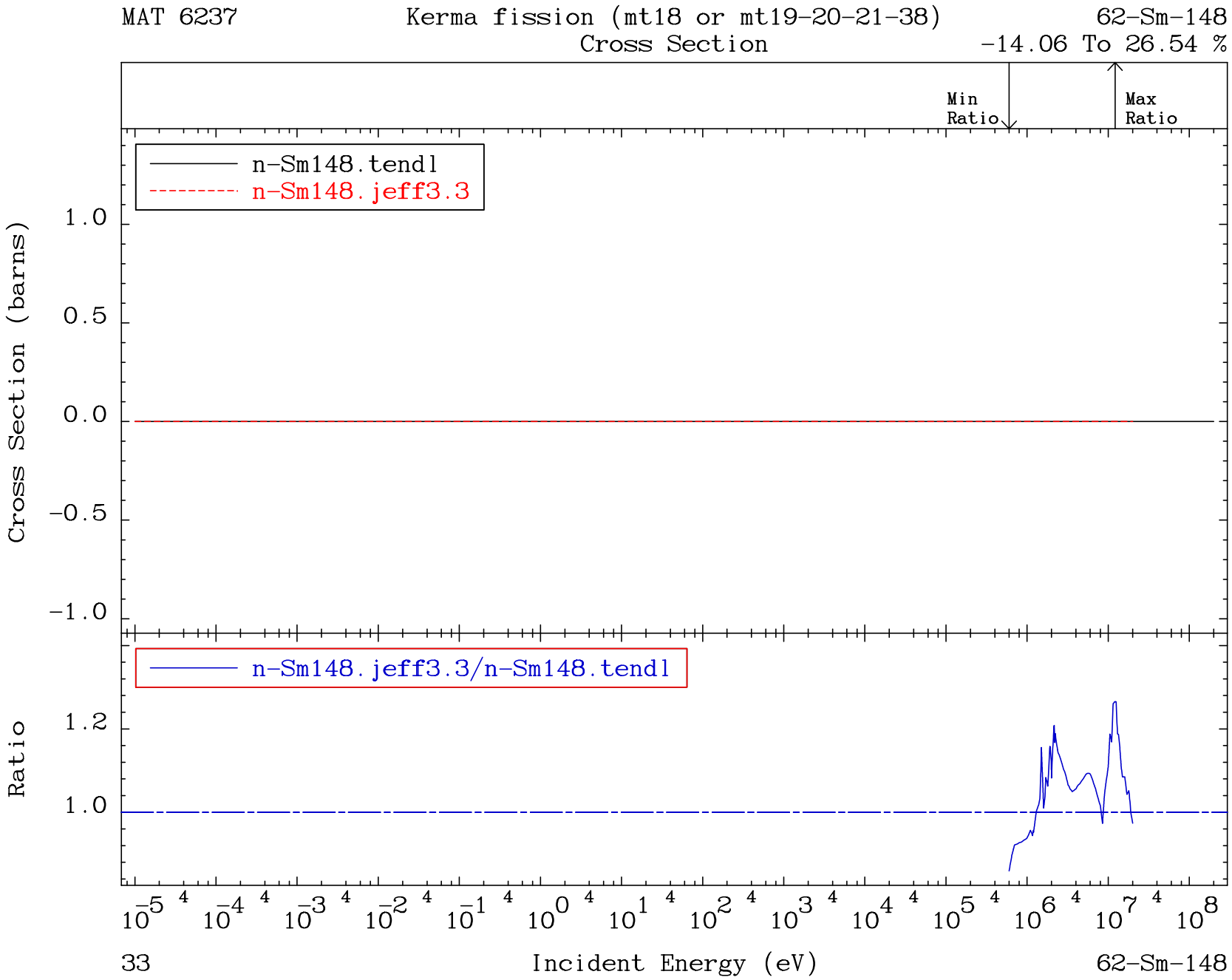

MAT 6237
He-4 Production
Cross Section
62-Sm-148
-46.79 To 4502. %
Max Ratio
Min Ratio
n-Sm148.tendl
n-Sm148.jeff3.3 Threshold 19.000 keV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
10^2
10^1
10^0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
28
Incident Energy (eV)
62-Sm-148

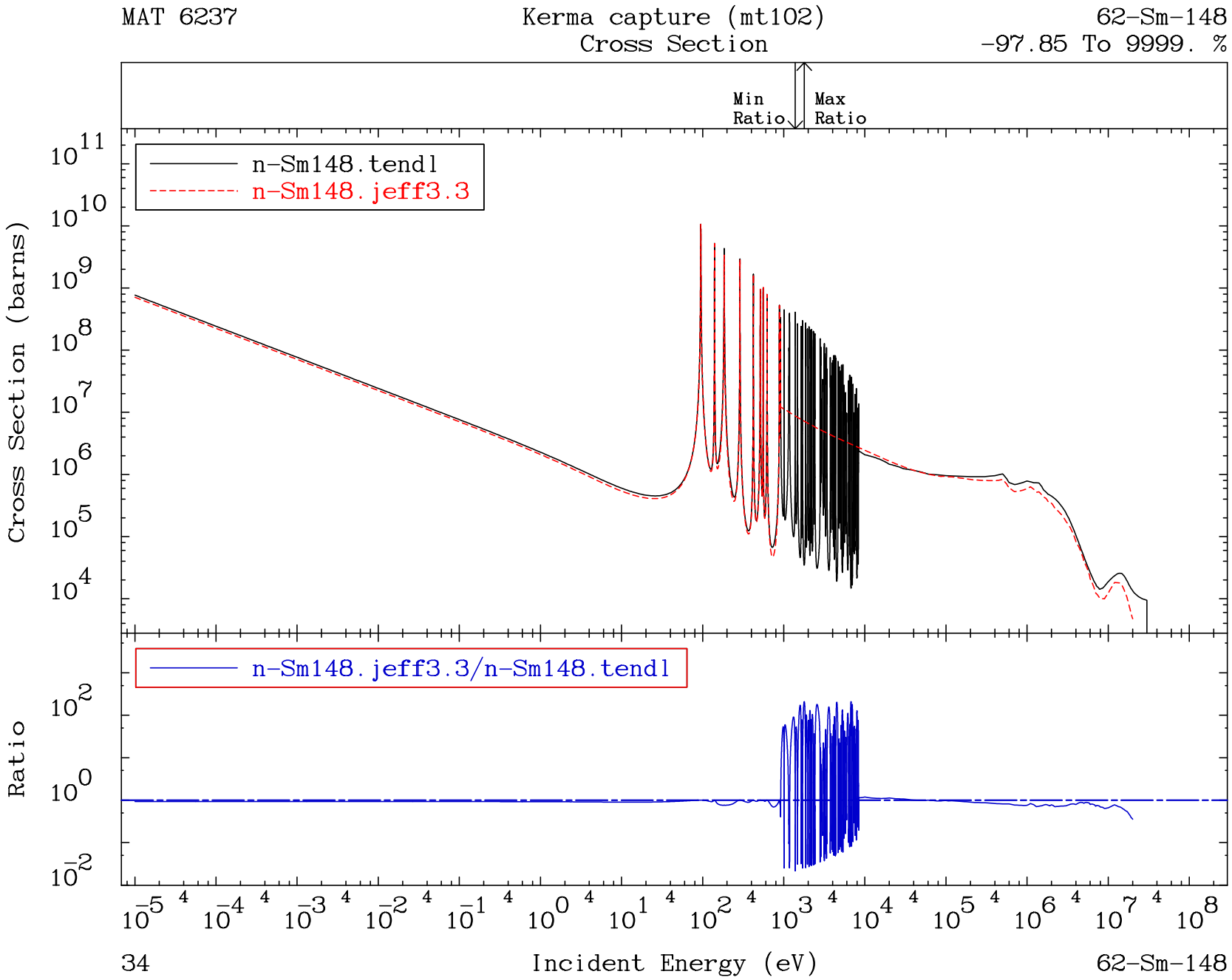

MAT 6237
Kerma total (eV-barns)
Cross Section
62-Sm-148
-97.85 To 9999. %
Min Ratio
Max Ratio
n-Sm148.tendl
n-Sm148.jeff3.3
Cross Section (barns)
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
Incident Energy (eV)
29
62-Sm-148

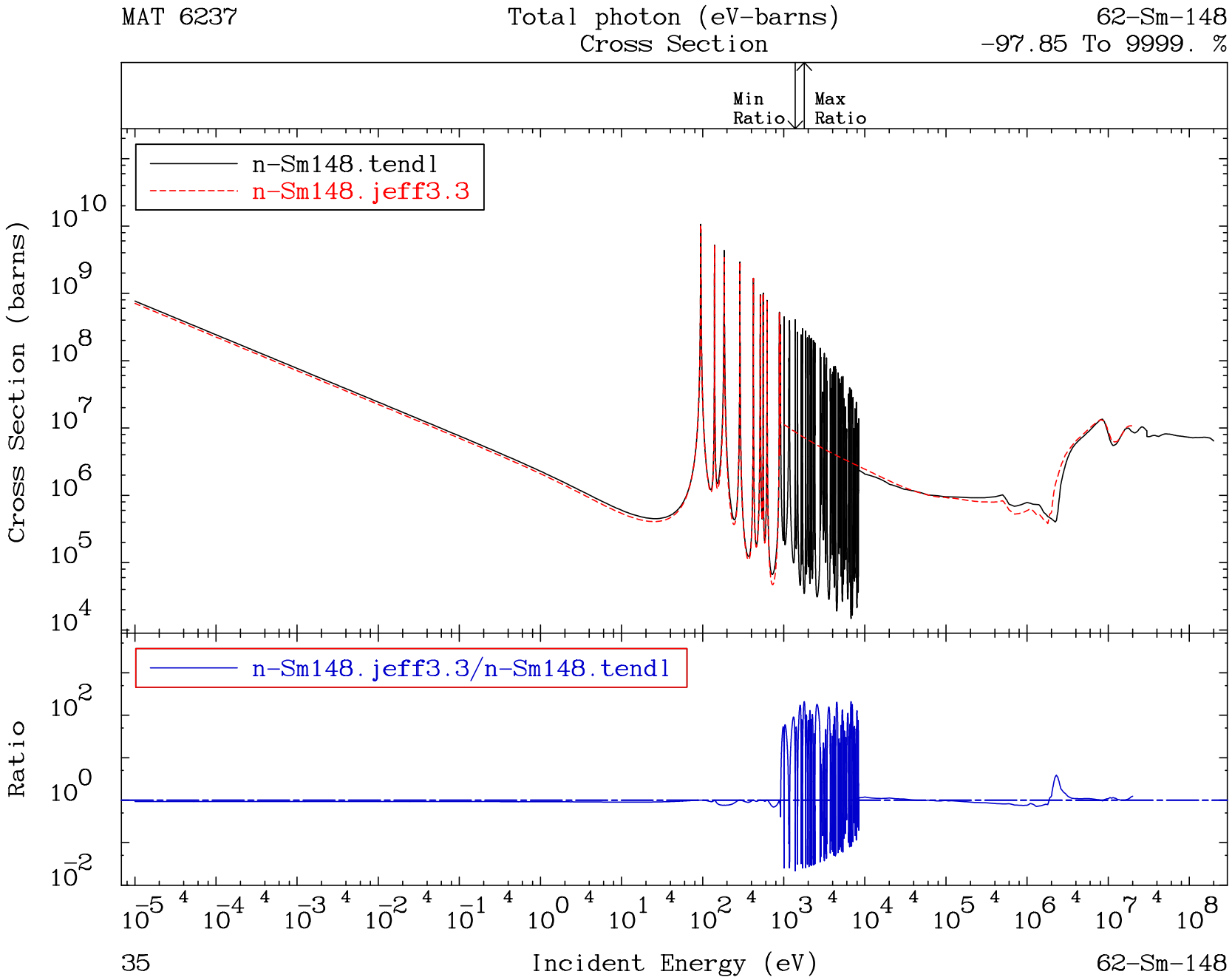

MAT 6237
Kerma elastic
Cross Section
62-Sm-148
-99.93 To 9999. %
Min
Ratio
Max
Ratio
n-Sm148.tendl
n-Sm148.jeff3.3
Cross Section (barns)
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
Incident Energy (eV)
30
62-Sm-148

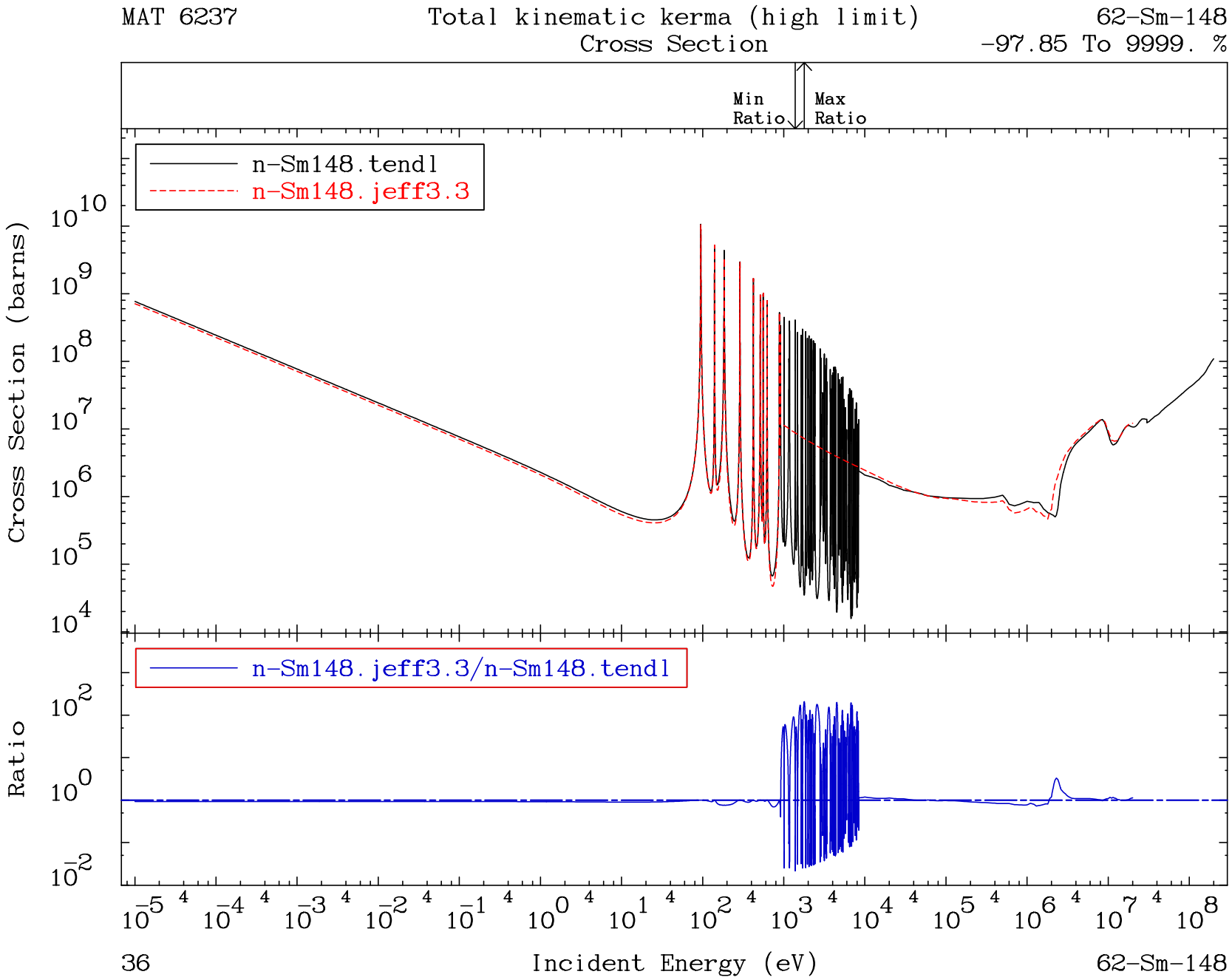

MAT 6237
Kerma non-elastic (all but mt2)
Cross Section
62-Sm-148
-97.85 To 9999. %
Min Ratio
Max Ratio
n-Sm148.tendl
n-Sm148.jeff3.3
Cross Section (barns)
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
Incident Energy (eV)
31
62-Sm-148

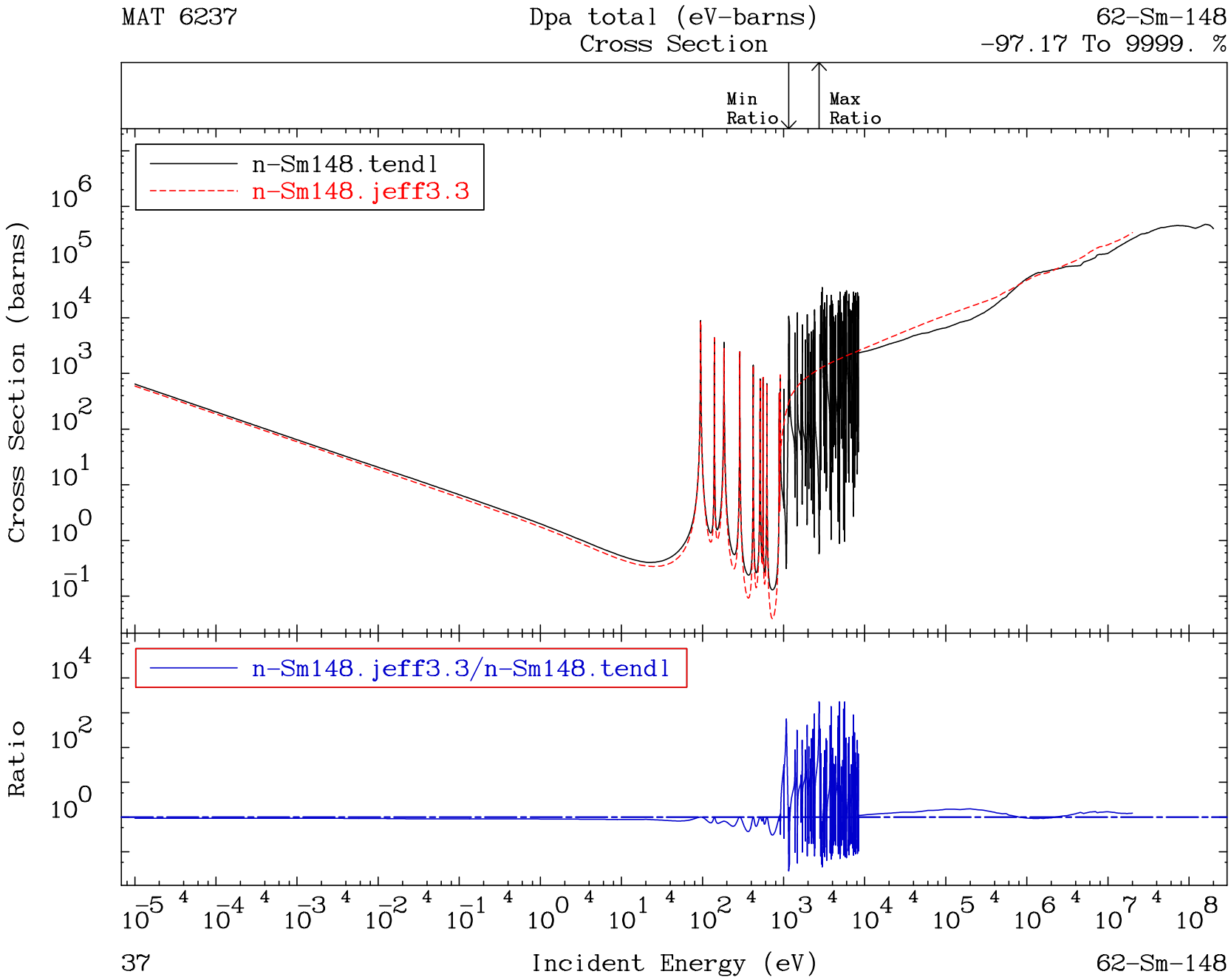

MAT 6237
Kerma inelastic (mt51-91)
Cross Section
62-Sm-148
-14.06 To 26.54 %
Min Ratio
Max Ratio
n-Sm148.tendl Threshold 600.00 keV
n-Sm148.jeff3.3 Threshold 400.00 keV
Cross Section (barns)
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
Incident Energy (eV)
32
62-Sm-148

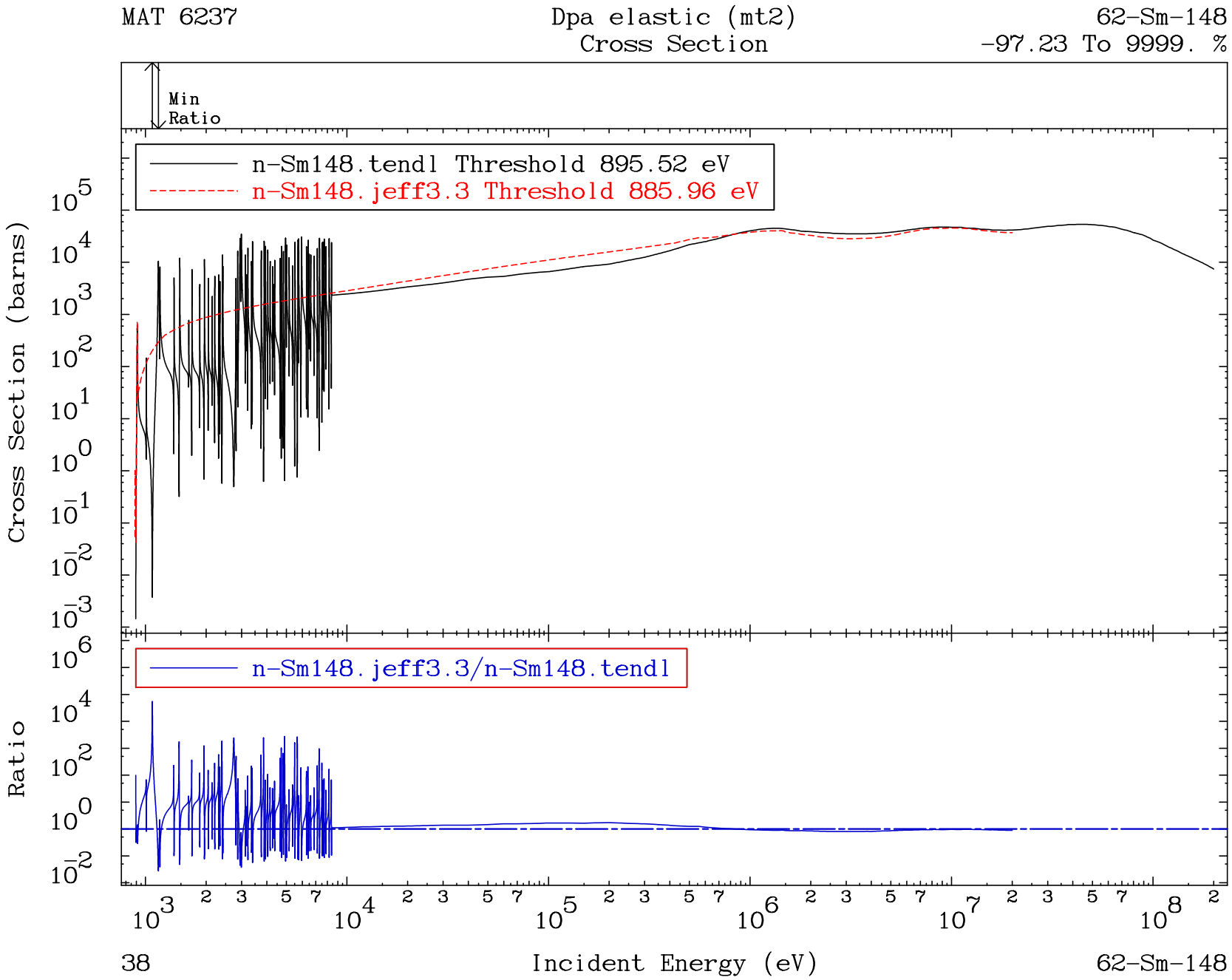

MAT 6237
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
62-Sm-148
-14.06 To 26.54 %
Min Ratio
Max Ratio
n-Sm148.tendl
n-Sm148.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
1.2
1.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
33
Incident Energy (eV)
62-Sm-148

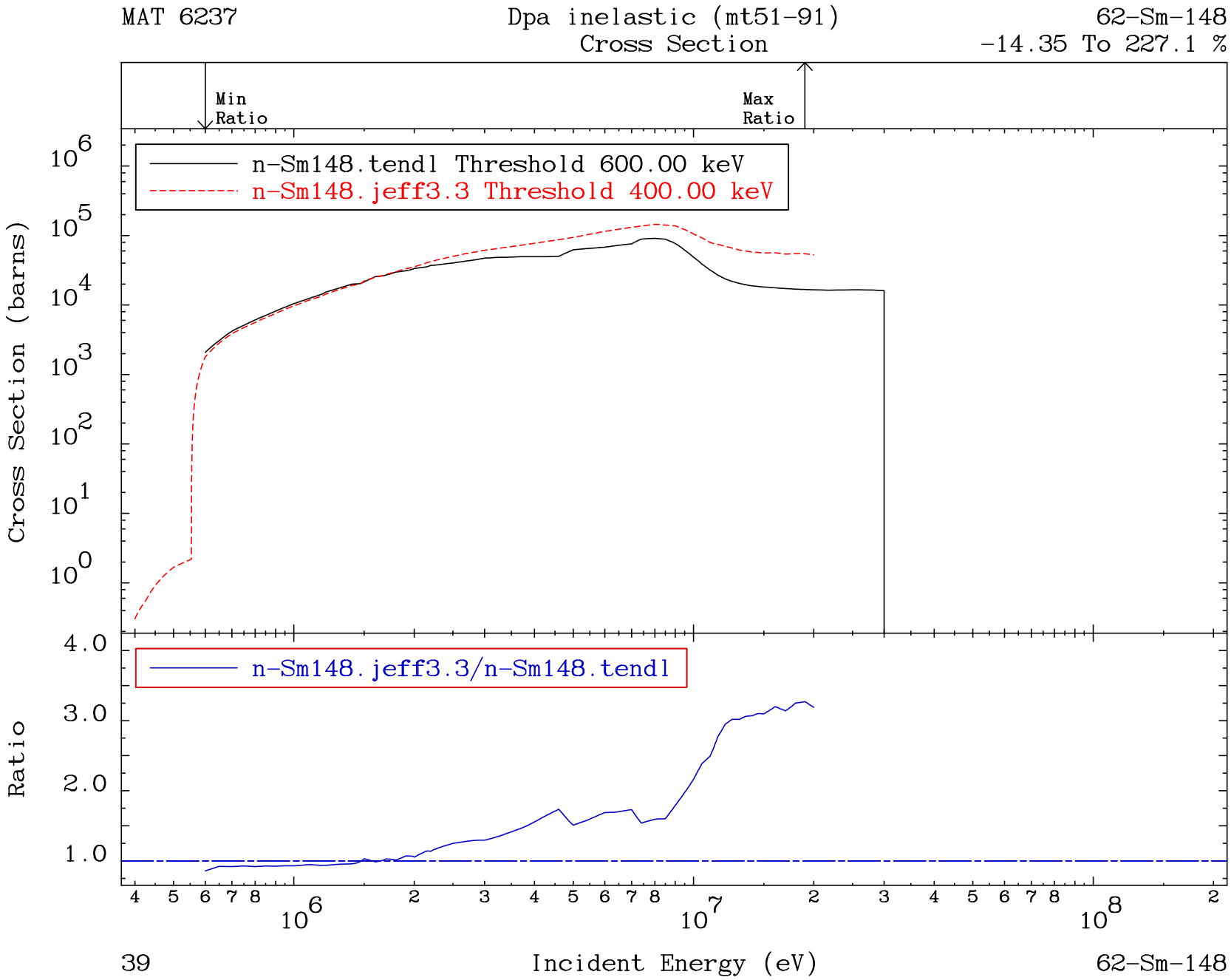

MAT 6237
Kerma capture (mt102)
Cross Section
62-Sm-148
-97.85 To 9999. %
Min Ratio
Max Ratio
n-Sm148.tendl
n-Sm148.jeff3.3
Cross Section (barns)
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
34
Incident Energy (eV)
62-Sm-148

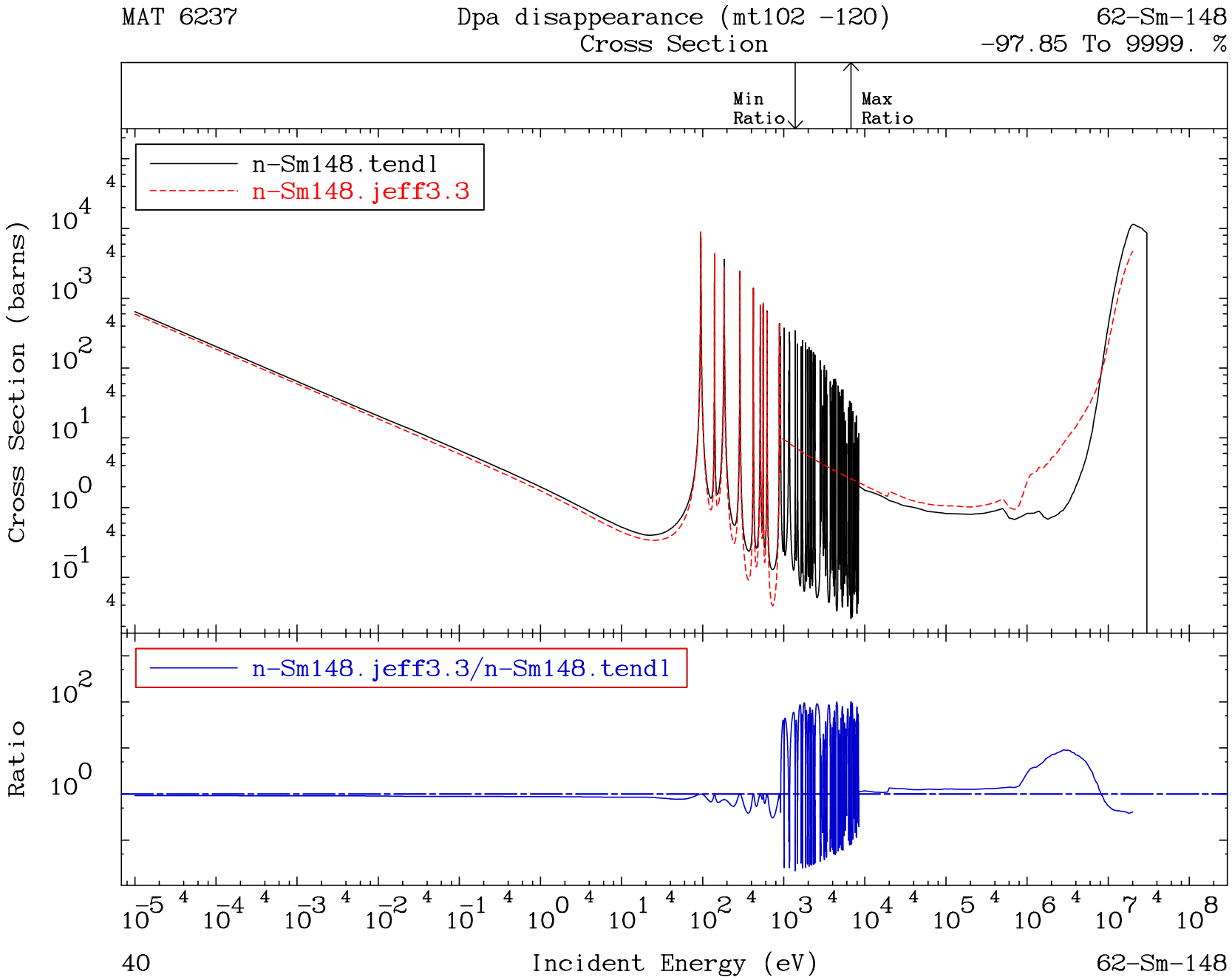

MAT 6237
Total photon (eV-barns)
Cross Section
62-Sm-148
-97.85 To 9999. %
Min Ratio
Max Ratio
n-Sm148.tendl
n-Sm148.jeff3.3
Cross Section (barns)
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
Incident Energy (eV)
35
62-Sm-148


MAT 6237
Total kinematic kerma (high limit)
Cross Section
62-Sm-148
-97.85 To 9999. %
Min Ratio
Max Ratio
n-Sm148.tendl
n-Sm148.jeff3.3
Cross Section (barns)
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
Incident Energy (eV)
36
62-Sm-148


MAT 6237
Dpa total (eV-barns)
Cross Section
62-Sm-148
-97.17 To 9999. %
Min Ratio
Max Ratio
n-Sm148.tendl
n-Sm148.jeff3.3
Cross Section (barns)
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
Incident Energy (eV)
37
62-Sm-148


MAT 6237
Dpa elastic (mt2)
Cross Section
62-Sm-148
-97.23 To 9999. %
Min
Ratio
n-Sm148.tendl Threshold 895.52 eV
n-Sm148.jeff3.3 Threshold 885.96 eV
Cross Section (barns)
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
Incident Energy (eV)
38
62-Sm-148


MAT 6237
Dpa inelastic (mt51-91)
Cross Section
62-Sm-148
-14.35 To 227.1 %
Min Ratio
Max Ratio
n-Sm148.tendl Threshold 600.00 keV
n-Sm148.jeff3.3 Threshold 400.00 keV
Cross Section (barns)
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
Incident Energy (eV)
39
62-Sm-148


MAT 6237
Dpa disappearance (mt102 -120)
Cross Section
62-Sm-148
-97.85 To 9999. %
Min Ratio
Max Ratio
n-Sm148.tendl
n-Sm148.jeff3.3
Cross Section (barns)
n-Sm148.jeff3.3/n-Sm148.tendl
Ratio
Incident Energy (eV)
40
62-Sm-148