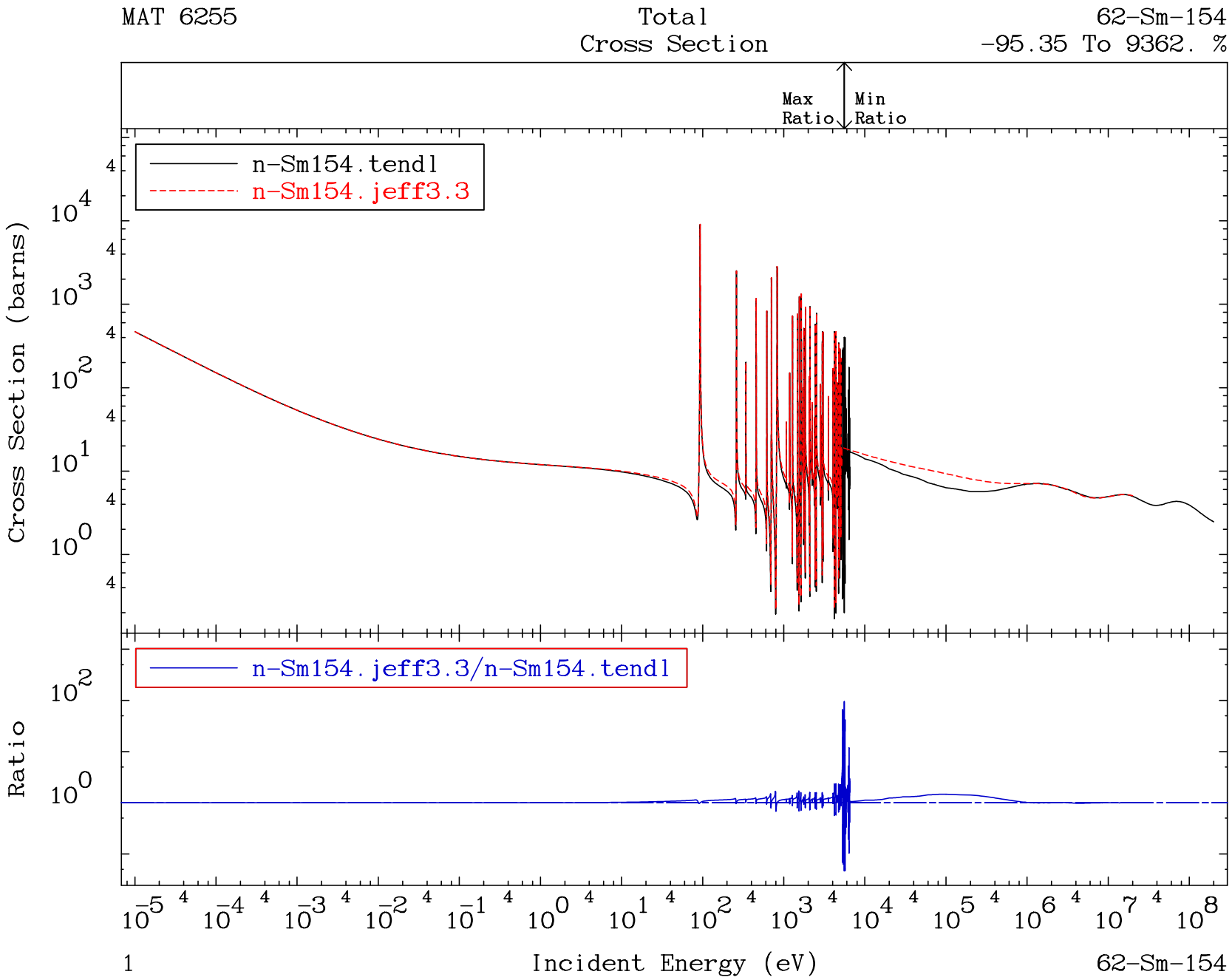
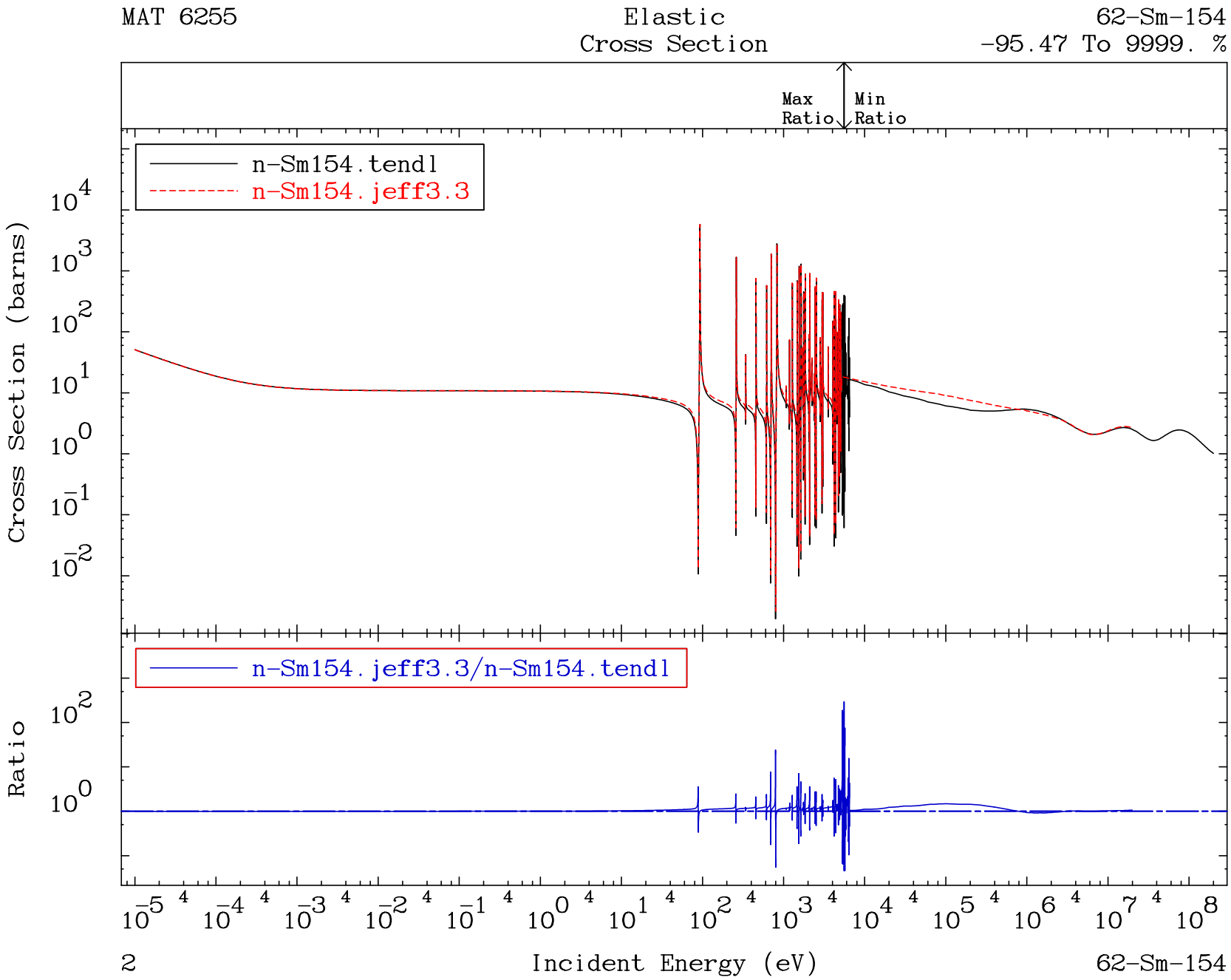
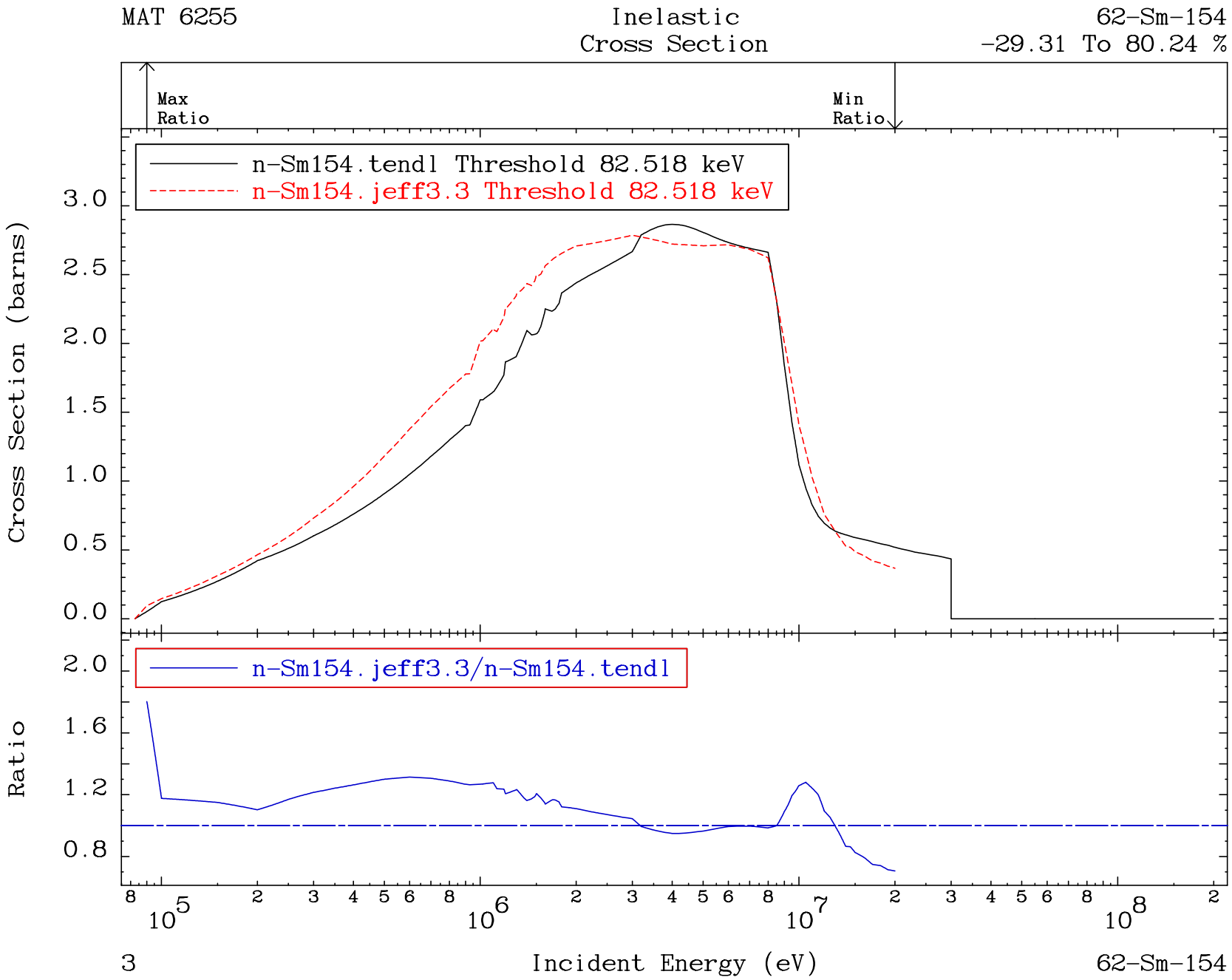
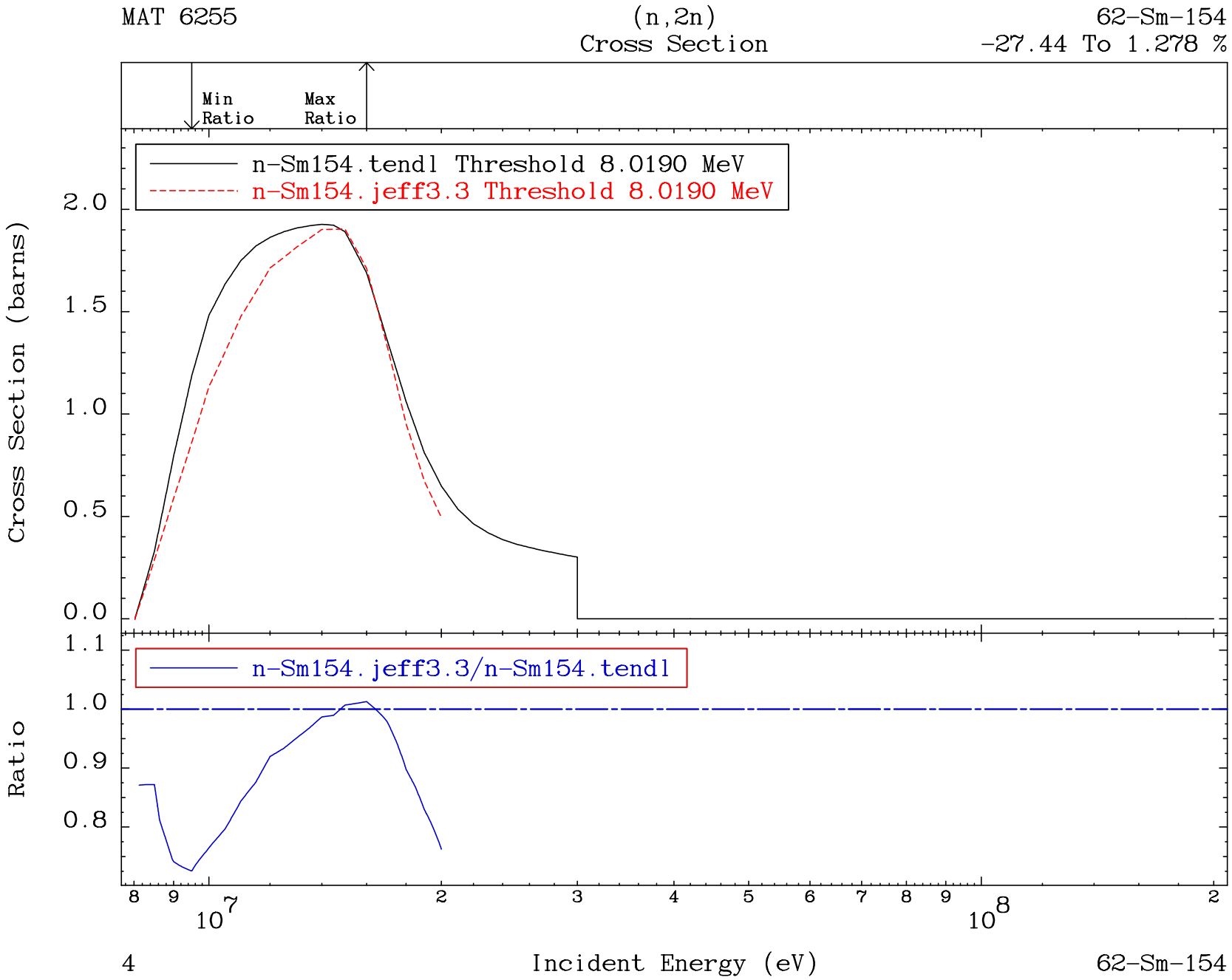
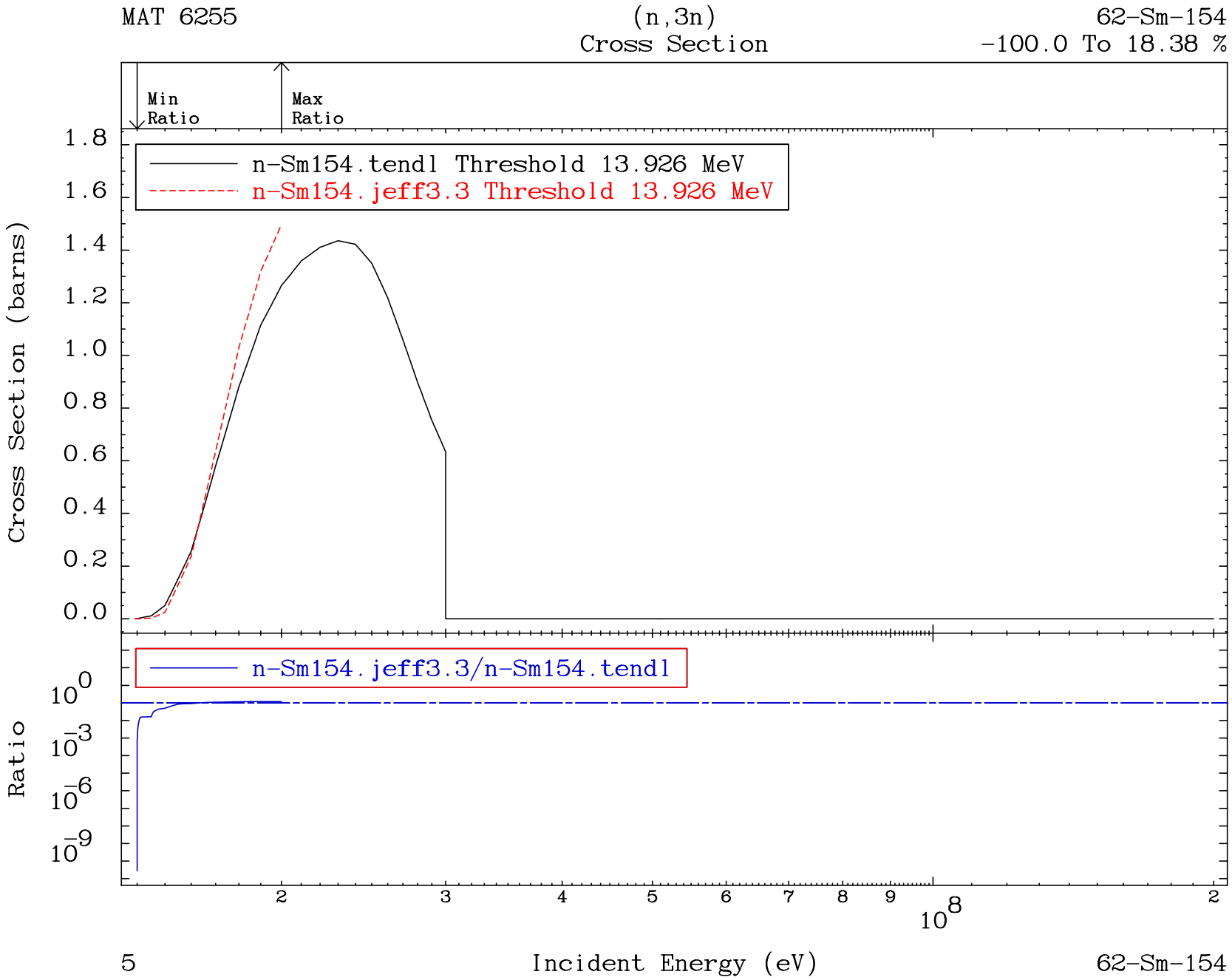
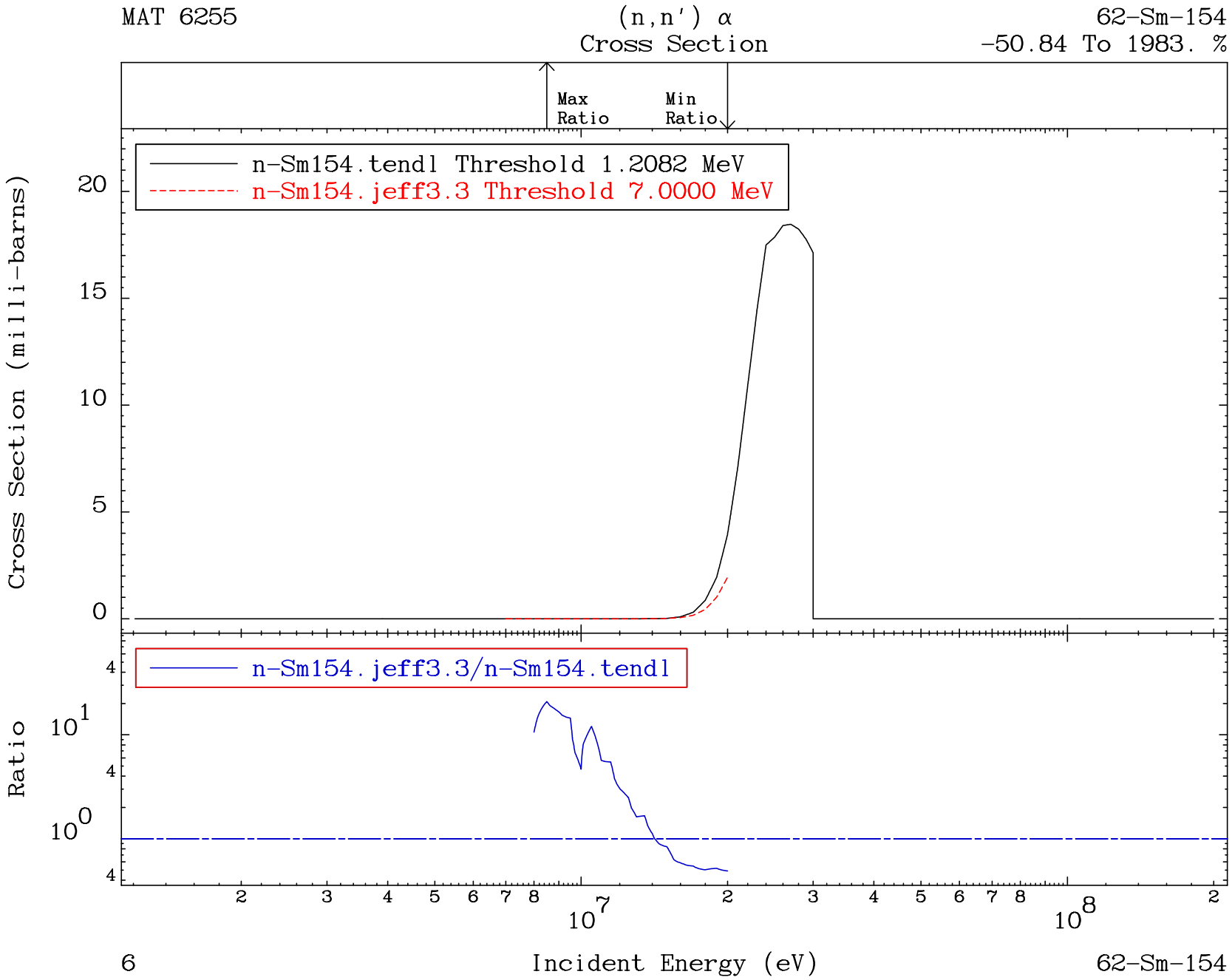

MAT 6255
Total
Cross Section
62-Sm-154
-95.35 To 9362. %
Max
Ratio
Min
Ratio
n-Sm154.tendl
n-Sm154.jeff3.3
Cross Section (barns)
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
Incident Energy (eV)
1
62-Sm-154

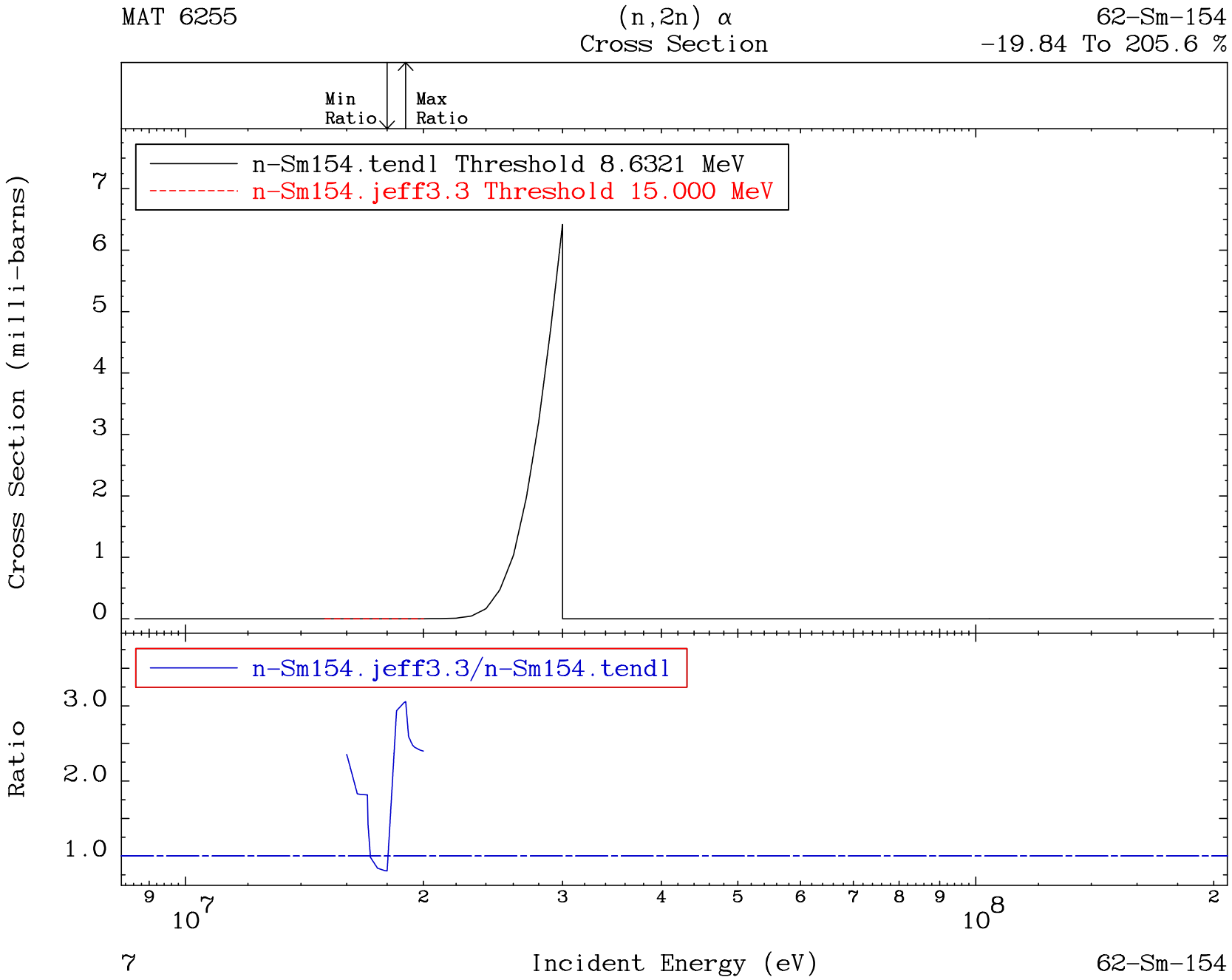

MAT 6255
Elastic
Cross Section
62-Sm-154
-95.47 To 9999. %
Max Ratio
Min Ratio
n-Sm154.tendl
n-Sm154.jeff3.3
Cross Section (barns)
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
Incident Energy (eV)
2
62-Sm-154

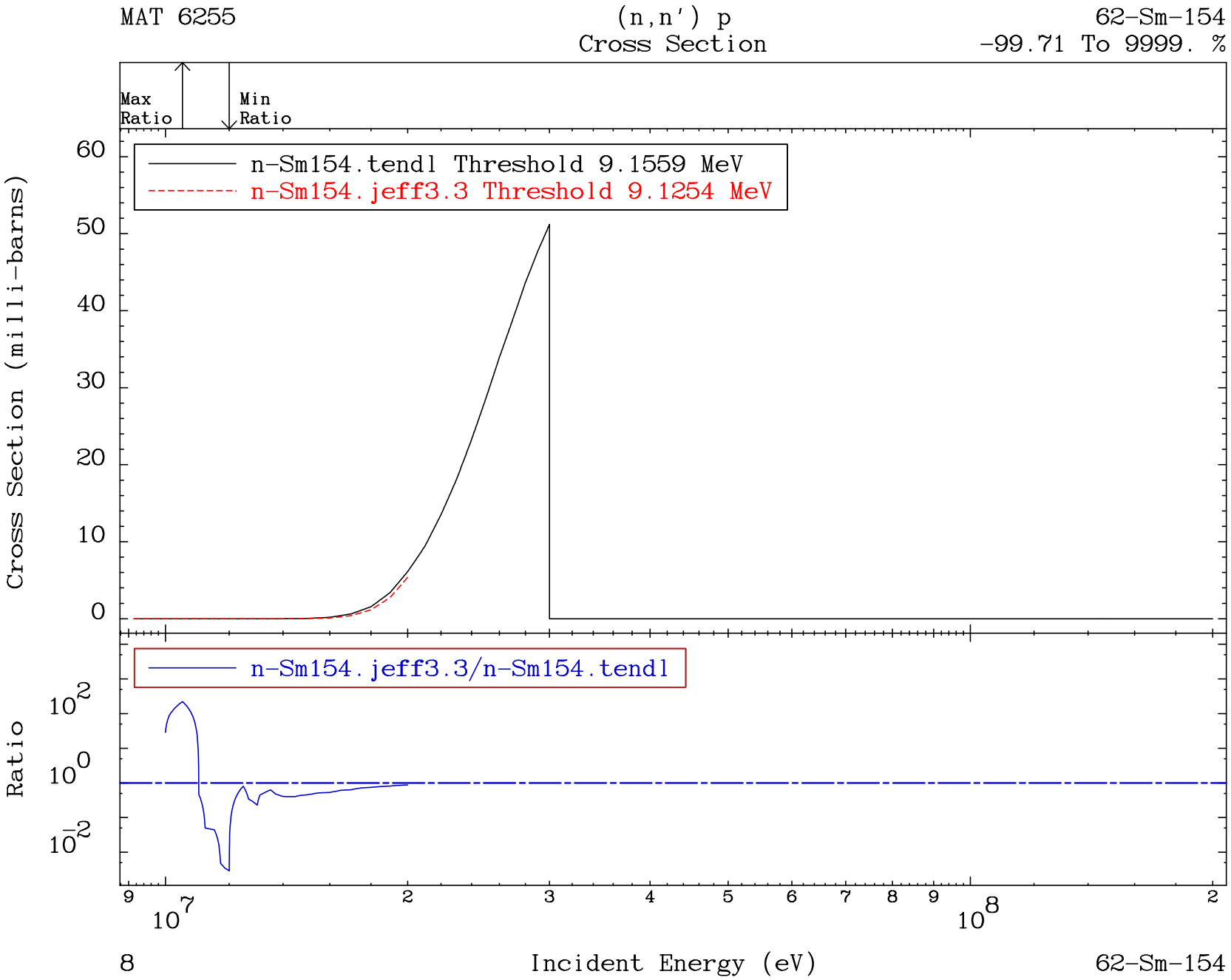

MAT 6255
Inelastic
Cross Section
62-Sm-154
-29.31 To 80.24 %
Max
Ratio
Min
Ratio
n-Sm154.tendl Threshold 82.518 keV
n-Sm154.jeff3.3 Threshold 82.518 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
2.0
1.6
1.2
0.8
8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
3
Incident Energy (eV)
62-Sm-154

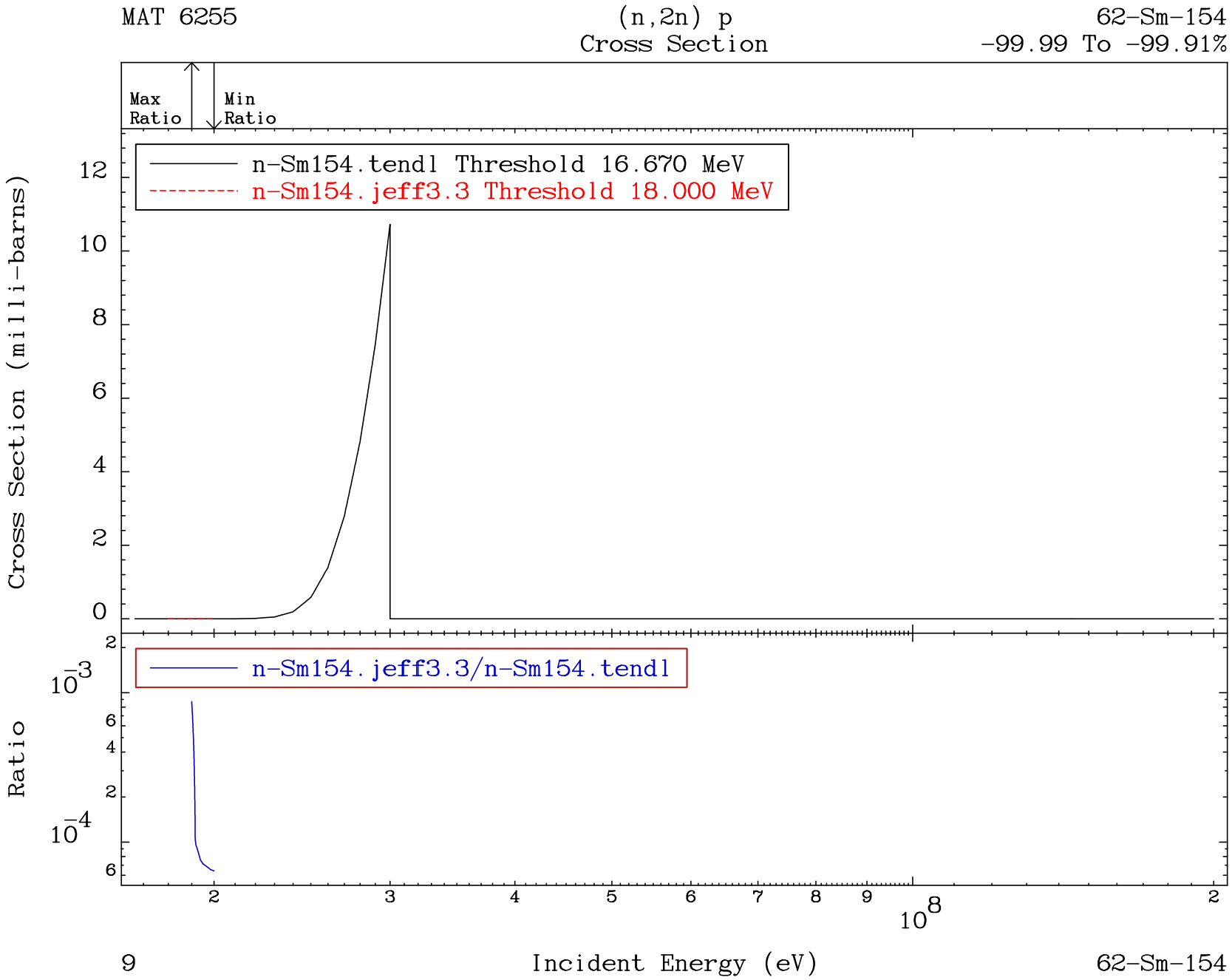

MAT 6255
(n,2n)
Cross Section
62-Sm-154
-27.44 To 1.278 %
Min Ratio
Max Ratio
n-Sm154.tendl Threshold 8.0190 MeV
n-Sm154.jeff3.3 Threshold 8.0190 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
1.1
1.0
0.9
0.8
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
62-Sm-154

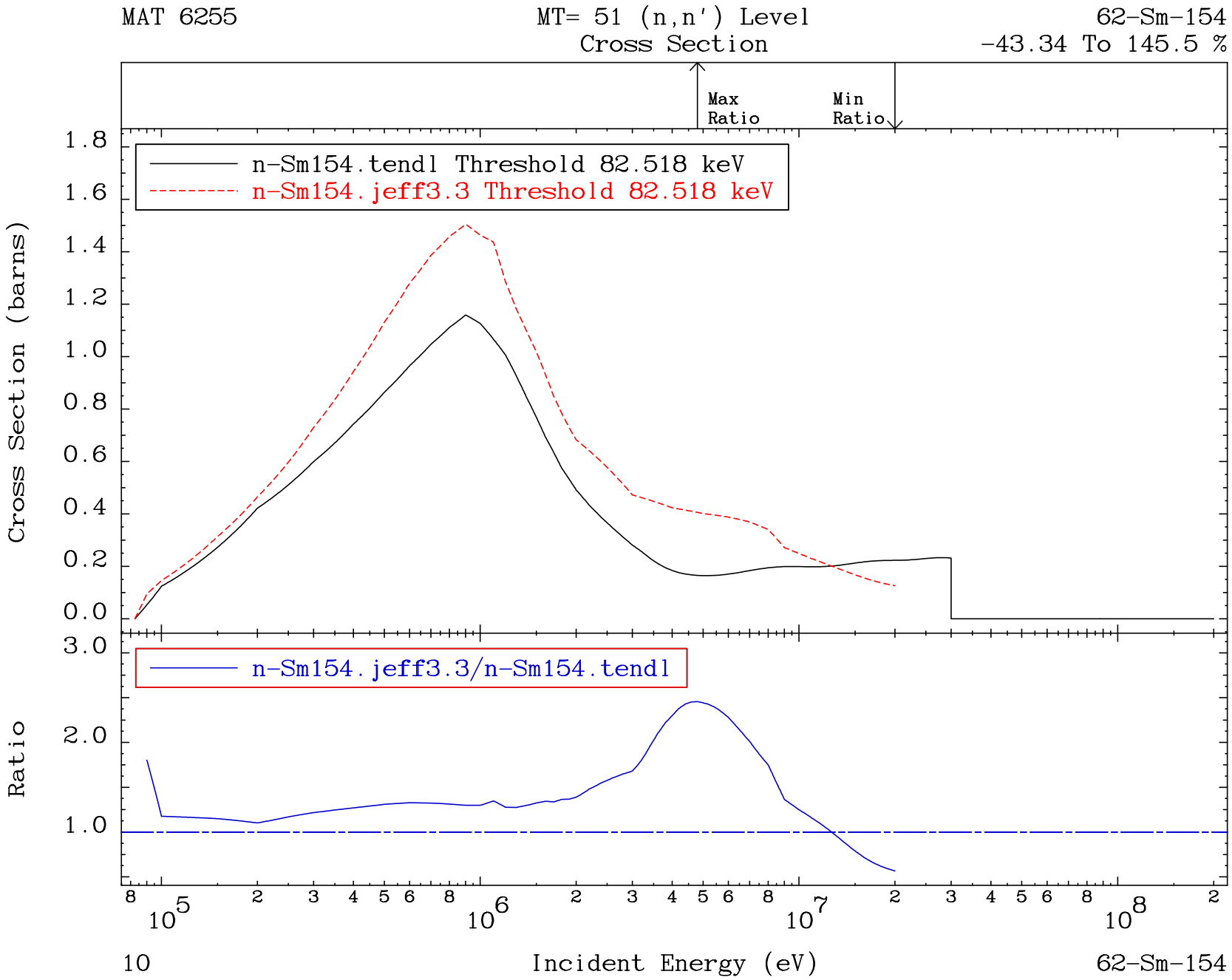

MAT 6255
(n,3n)
Cross Section
62-Sm-154
-100.0 To 18.38 %
Min Ratio
Max Ratio
n-Sm154.tendl Threshold 13.926 MeV
n-Sm154.jeff3.3 Threshold 13.926 MeV
Cross Section (barns)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^0
10^-3
10^-6
10^-9
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
62-Sm-154

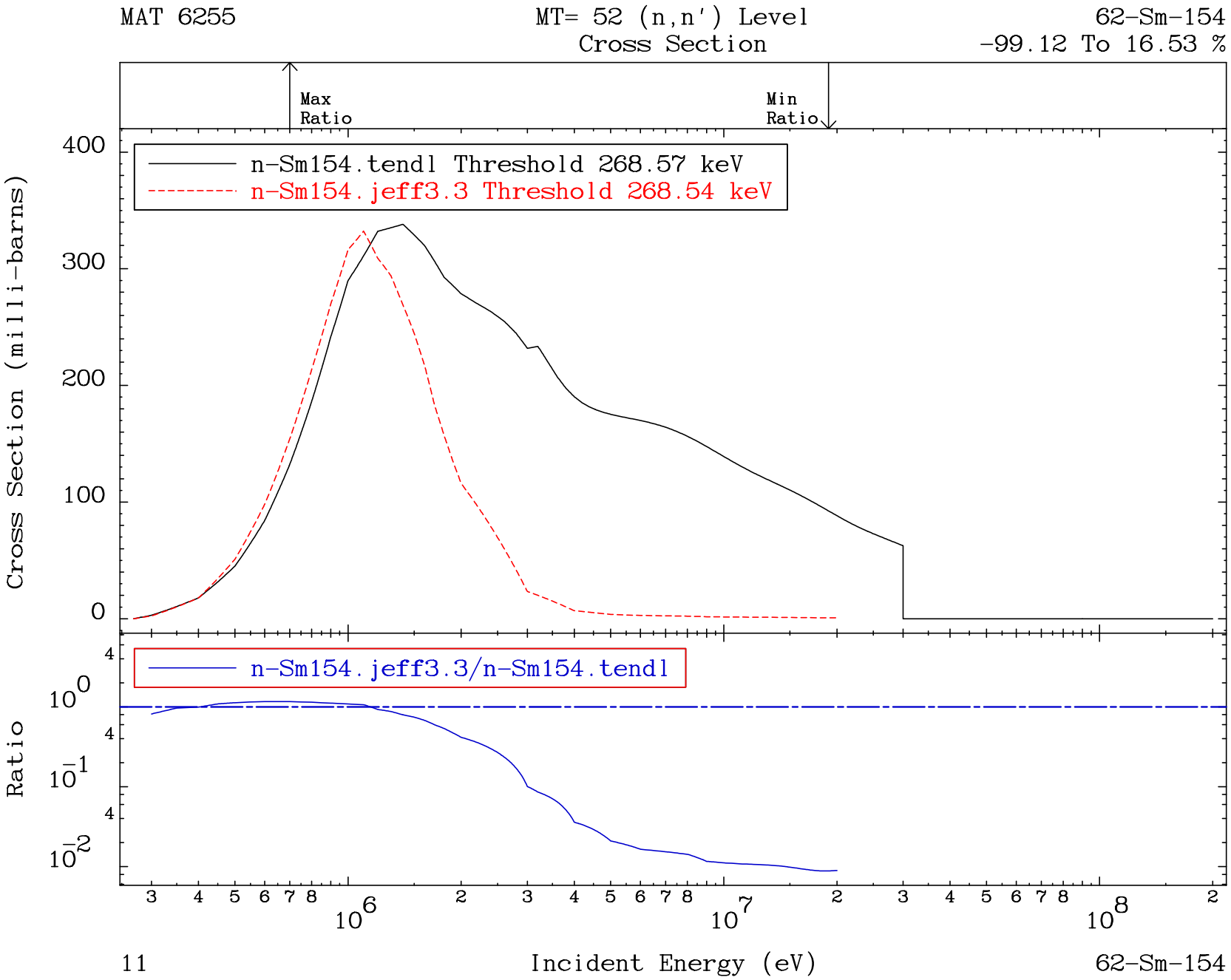

MAT 6255
(n,n') α
Cross Section
62-Sm-154
-50.84 To 1983. %
Max Ratio
Min Ratio
n-Sm154.tendl Threshold 1.2082 MeV
n-Sm154.jeff3.3 Threshold 7.0000 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^1
10^0
4
2 3 4 5 6 7 8
10^7
10^8
6
Incident Energy (eV)
62-Sm-154

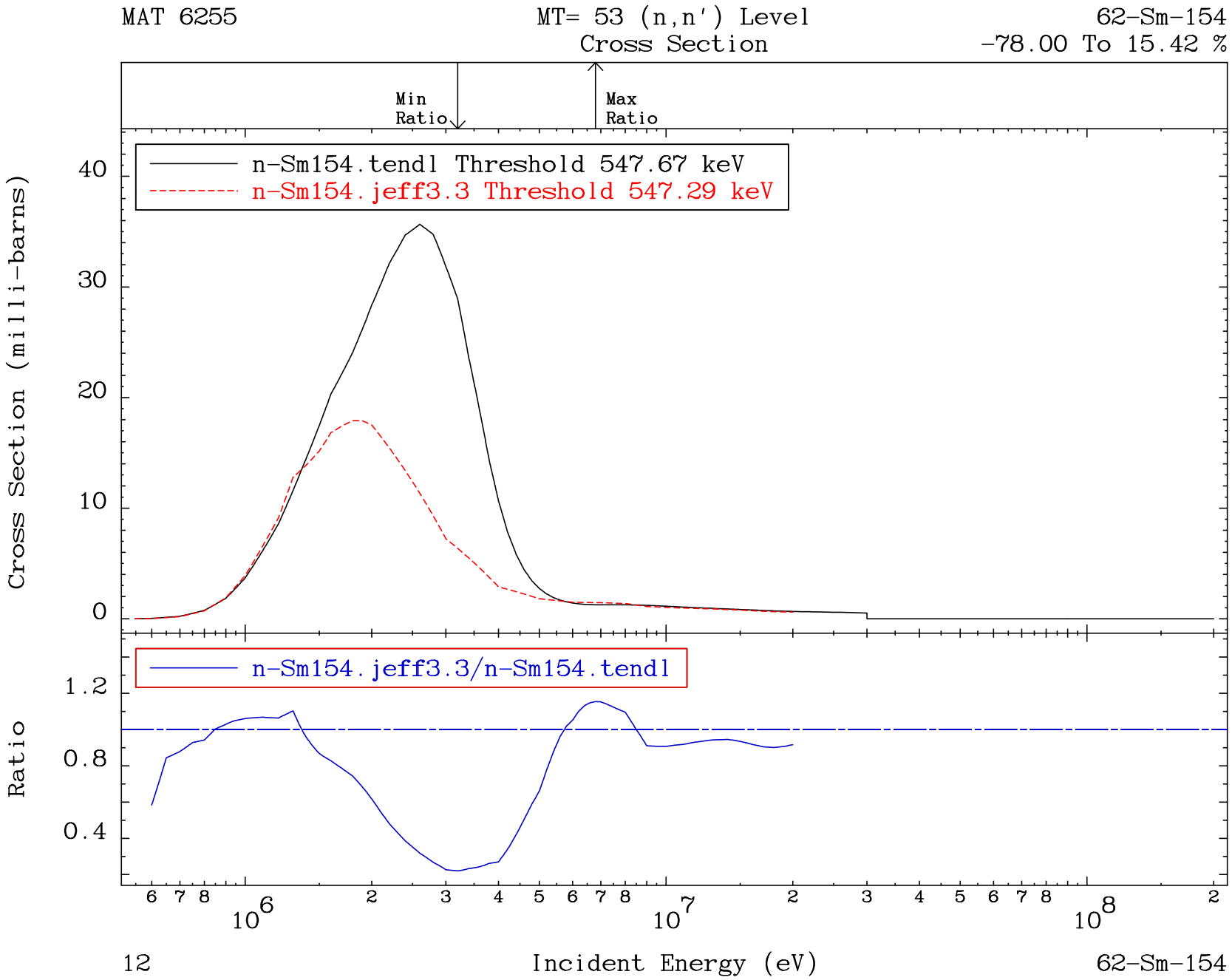

MAT 6255
(n,2n) α
Cross Section
62-Sm-154
-19.84 To 205.6 %
Min Ratio
Max Ratio
n-Sm154.tendl Threshold 8.6321 MeV
n-Sm154.jeff3.3 Threshold 15.000 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
1.0
2.0
3.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
62-Sm-154

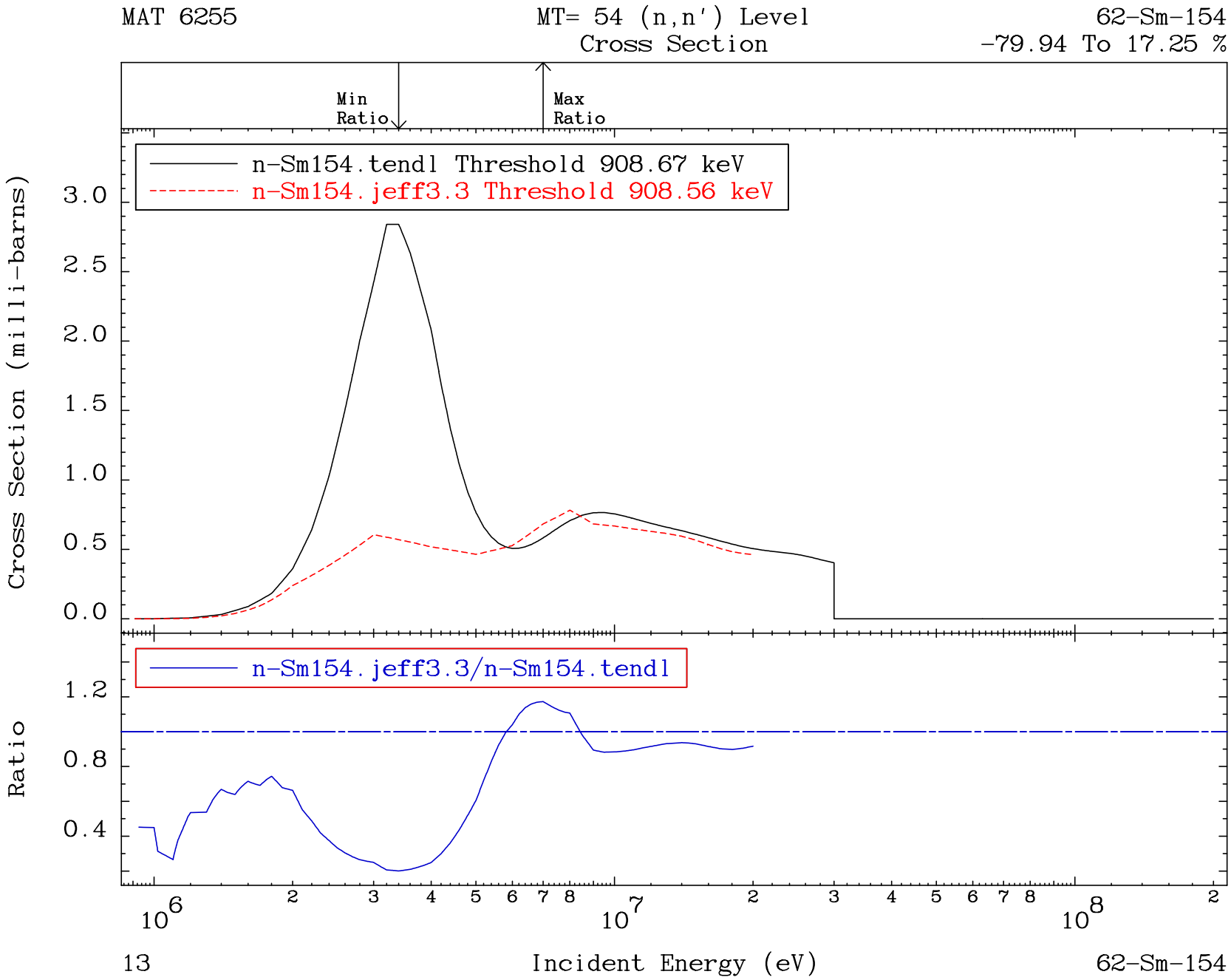

MAT 6255
(n,n') p
Cross Section
62-Sm-154
-99.71 To 9999. %
Max Ratio
Min Ratio
n-Sm154.tendl Threshold 9.1559 MeV
n-Sm154.jeff3.3 Threshold 9.1254 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^2
10^0
10^-2
9
10^7
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
62-Sm-154

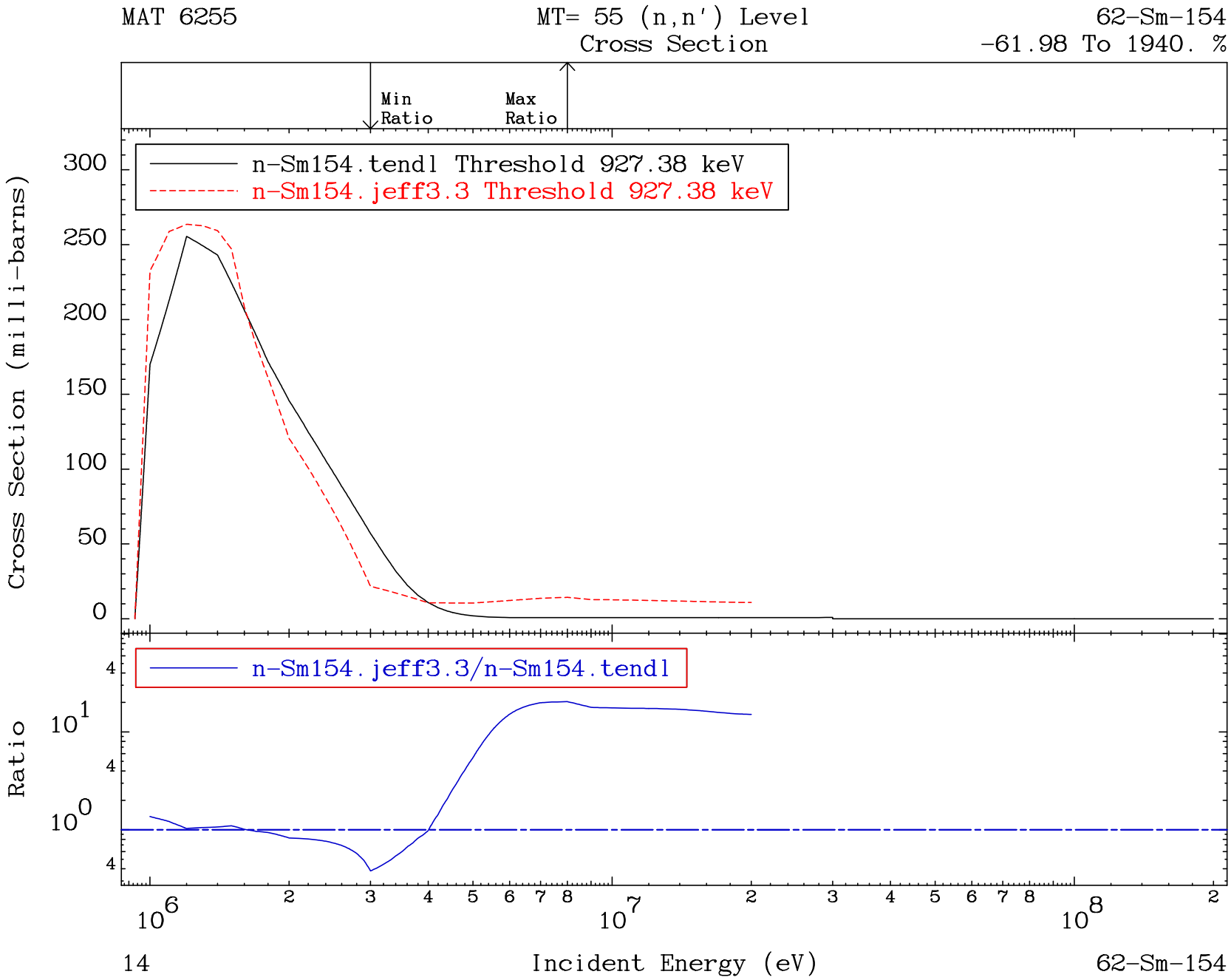

MAT 6255
(n,2n) p
Cross Section
62-Sm-154
-99.99 To -99.91%
Max Ratio
Min Ratio
n-Sm154.tendl Threshold 16.670 MeV
n-Sm154.jeff3.3 Threshold 18.000 MeV
Cross Section (milli-barns)
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
Incident Energy (eV)
9
62-Sm-154

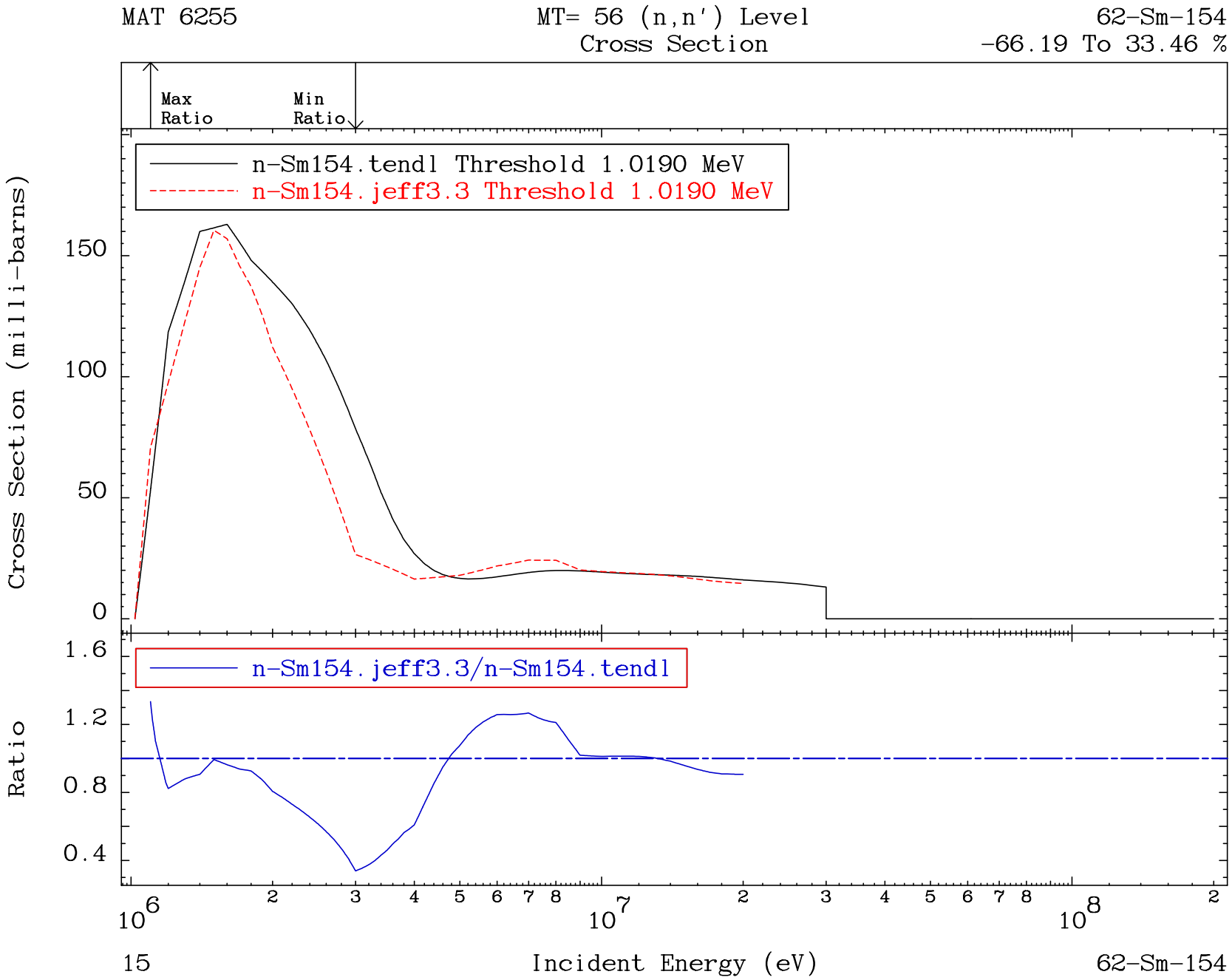

MAT 6255
MT= 51 (n,n') Level
Cross Section
62-Sm-154
-43.34 To 145.5 %
Max Ratio
Min Ratio
n-Sm154.tendl Threshold 82.518 keV
n-Sm154.jeff3.3 Threshold 82.518 keV
Cross Section (barns)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
3.0
2.0
1.0
8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
10
Incident Energy (eV)
62-Sm-154

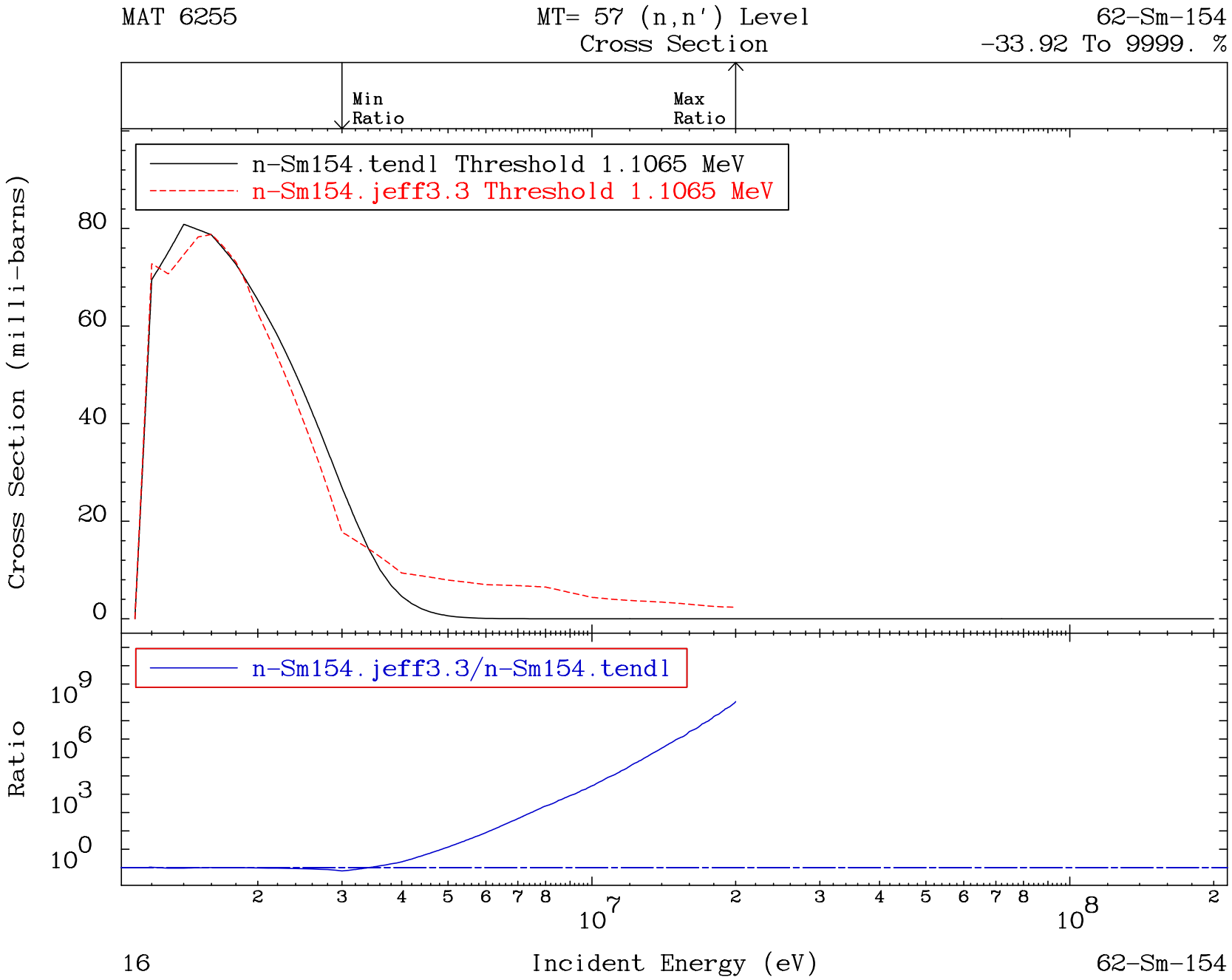

MAT 6255
MT= 52 (n,n') Level
Cross Section
62-Sm-154
-99.12 To 16.53 %
Max Ratio
Min Ratio
n-Sm154.tendl Threshold 268.57 keV
n-Sm154.jeff3.3 Threshold 268.54 keV
Cross Section (milli-barns)
400
300
200
100
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^0
10^-1
10^-2
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
62-Sm-154

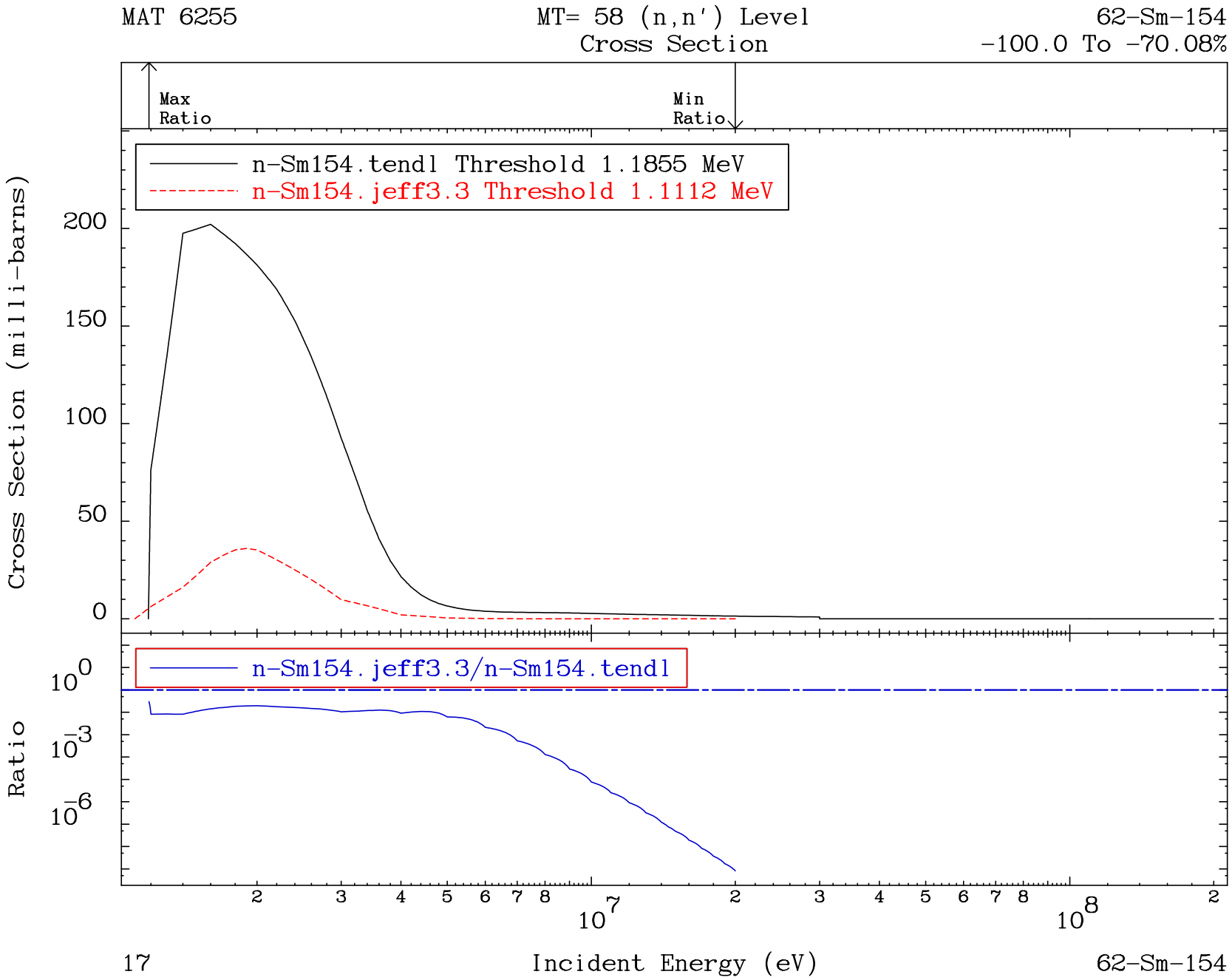

MAT 6255
MT= 53 (n,n') Level
Cross Section
62-Sm-154
-78.00 To 15.42 %
Min Ratio
Max Ratio
n-Sm154.tendl Threshold 547.67 keV
n-Sm154.jeff3.3 Threshold 547.29 keV
Cross Section (milli-barns)
40
30
20
10
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
1.2
0.8
0.4
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
62-Sm-154

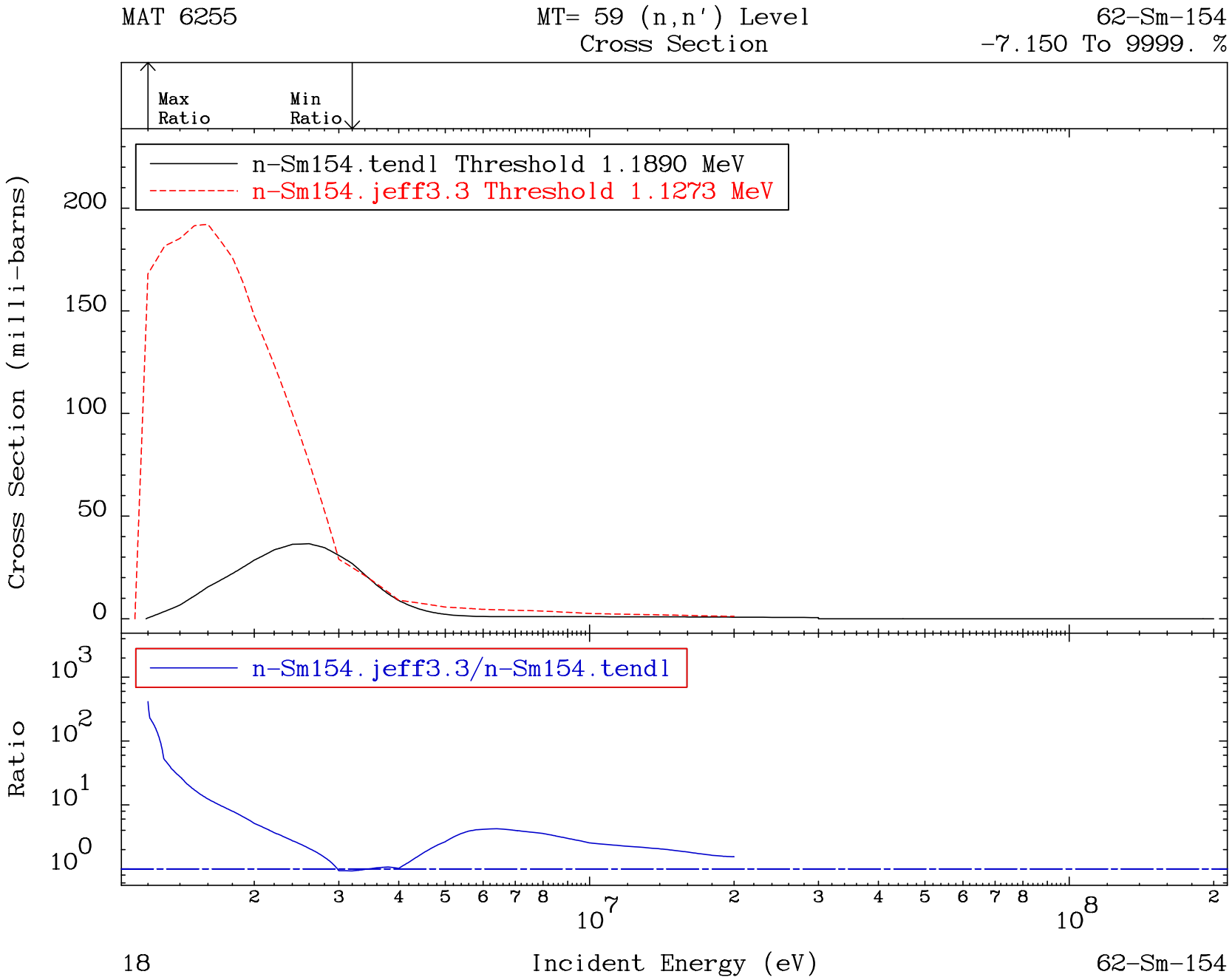

MAT 6255
MT= 54 (n,n') Level
Cross Section
62-Sm-154
-79.94 To 17.25 %
Min Ratio
Max Ratio
n-Sm154.tendl Threshold 908.67 keV
n-Sm154.jeff3.3 Threshold 908.56 keV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
1.2
0.8
0.4
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
62-Sm-154

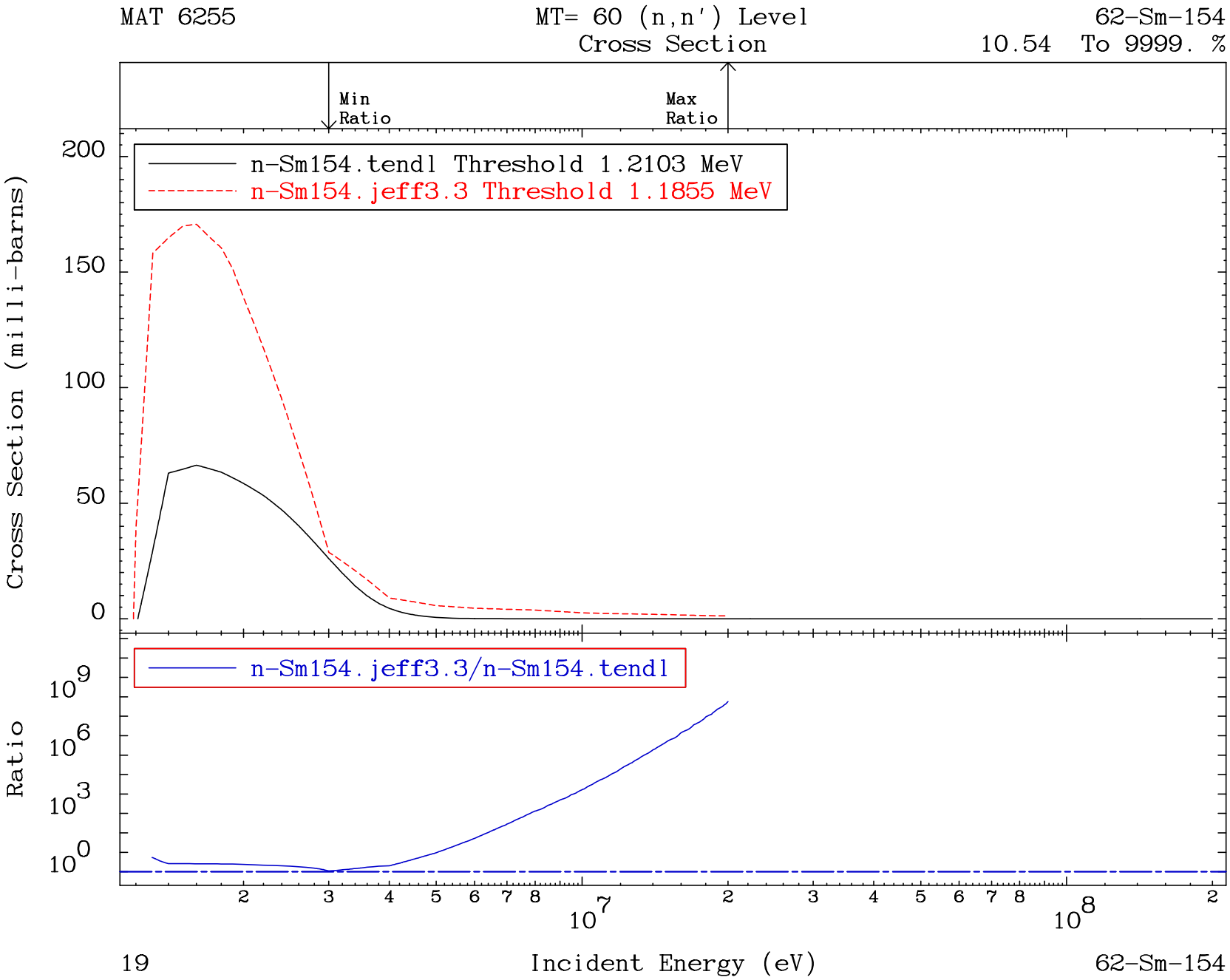

MAT 6255
MT= 55 (n,n') Level
Cross Section
62-Sm-154
-61.98 To 1940. %
Min Ratio
Max Ratio
n-Sm154.tendl Threshold 927.38 keV
n-Sm154.jeff3.3 Threshold 927.38 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^1
10^0
10^6
10^7
10^8
14
Incident Energy (eV)
62-Sm-154

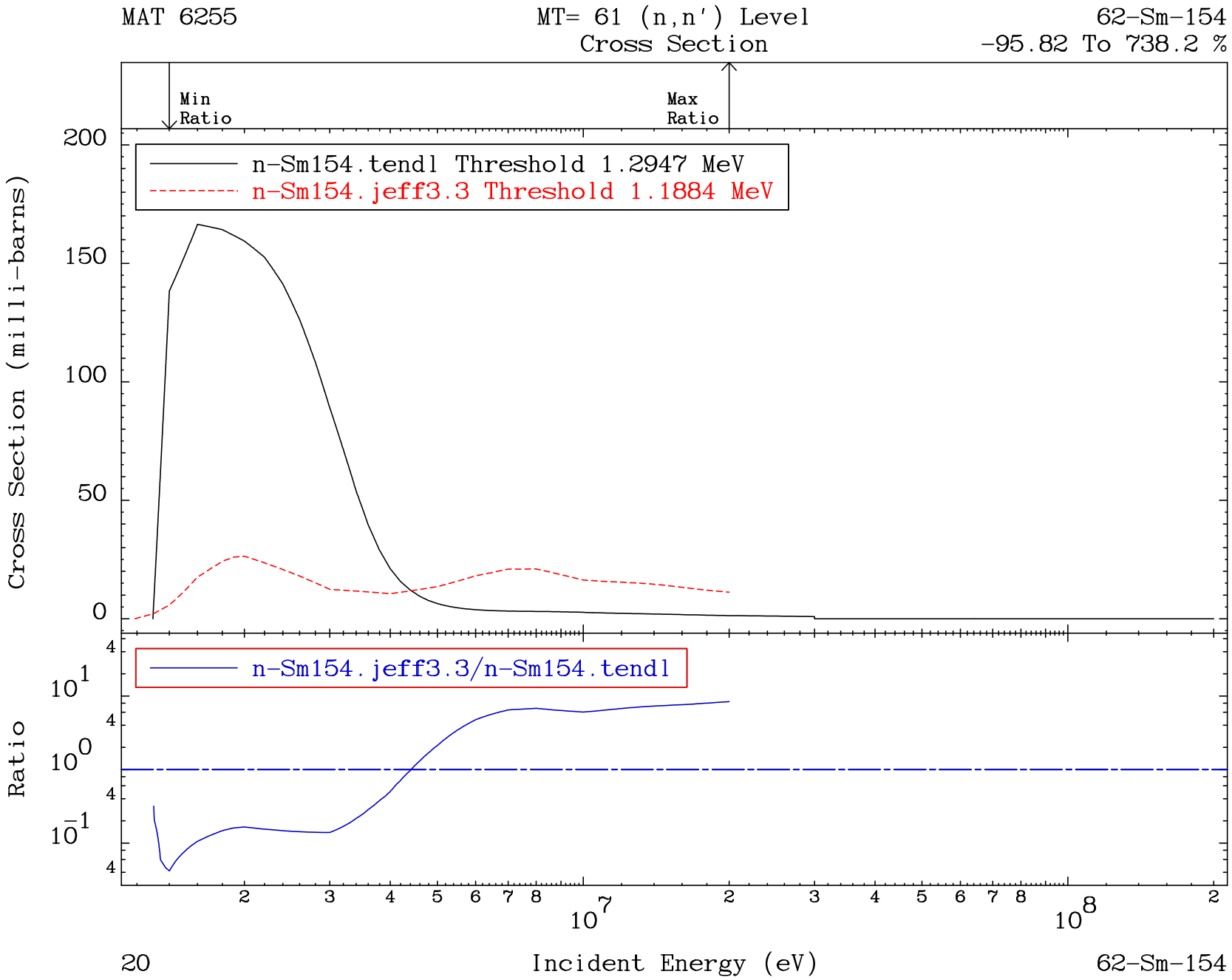

MAT 6255
MT= 56 (n,n') Level
Cross Section
62-Sm-154
-66.19 To 33.46 %
Max Ratio
Min Ratio
n-Sm154.tendl Threshold 1.0190 MeV
n-Sm154.jeff3.3 Threshold 1.0190 MeV
Cross Section (milli-barns)
150
100
50
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
1.6
1.2
0.8
0.4
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
62-Sm-154

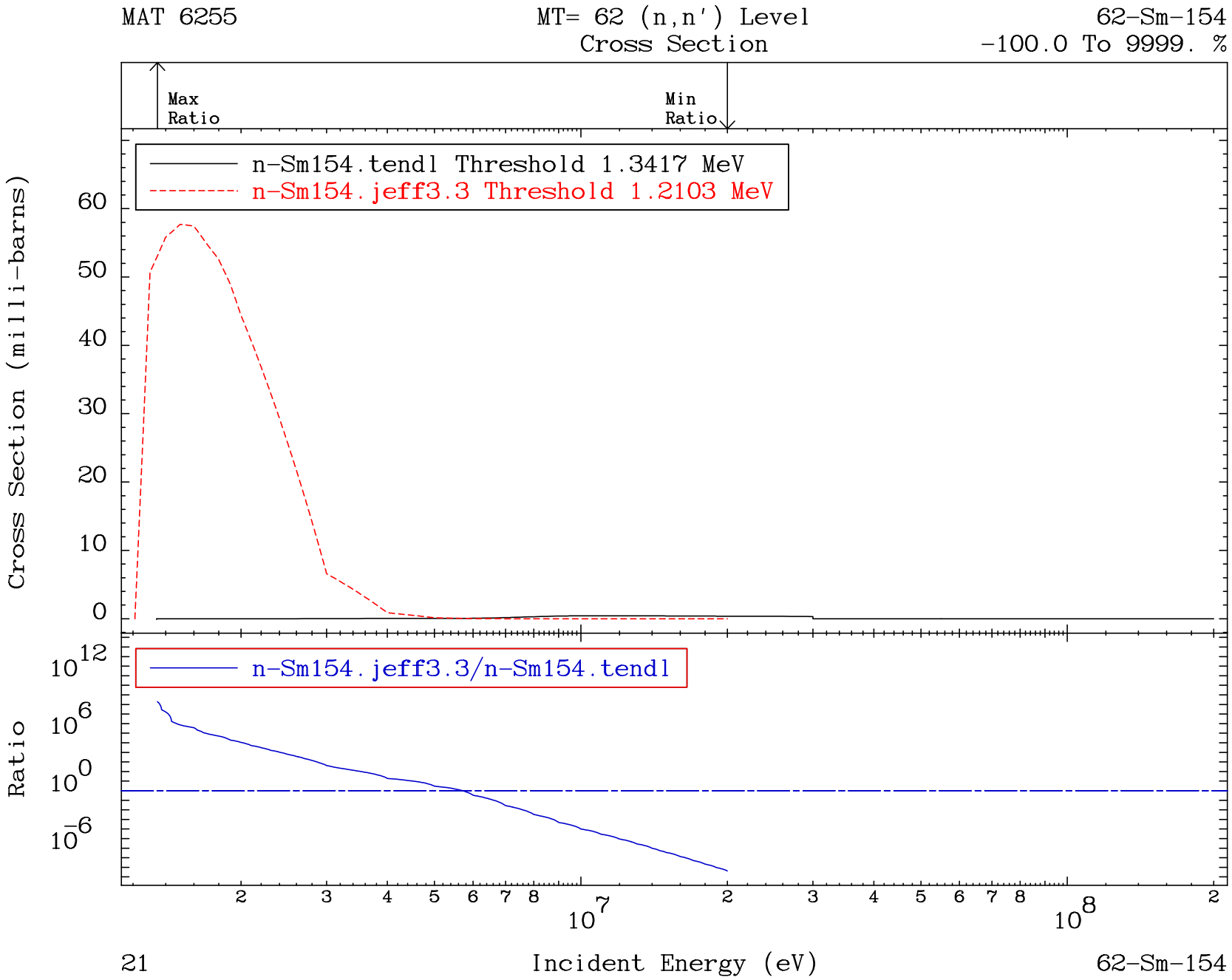

MAT 6255
MT= 57 (n,n') Level
Cross Section
62-Sm-154
-33.92 To 9999. %
Min
Ratio
Max
Ratio
n-Sm154.tendl Threshold 1.1065 MeV
n-Sm154.jeff3.3 Threshold 1.1065 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^9
10^6
10^3
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
62-Sm-154

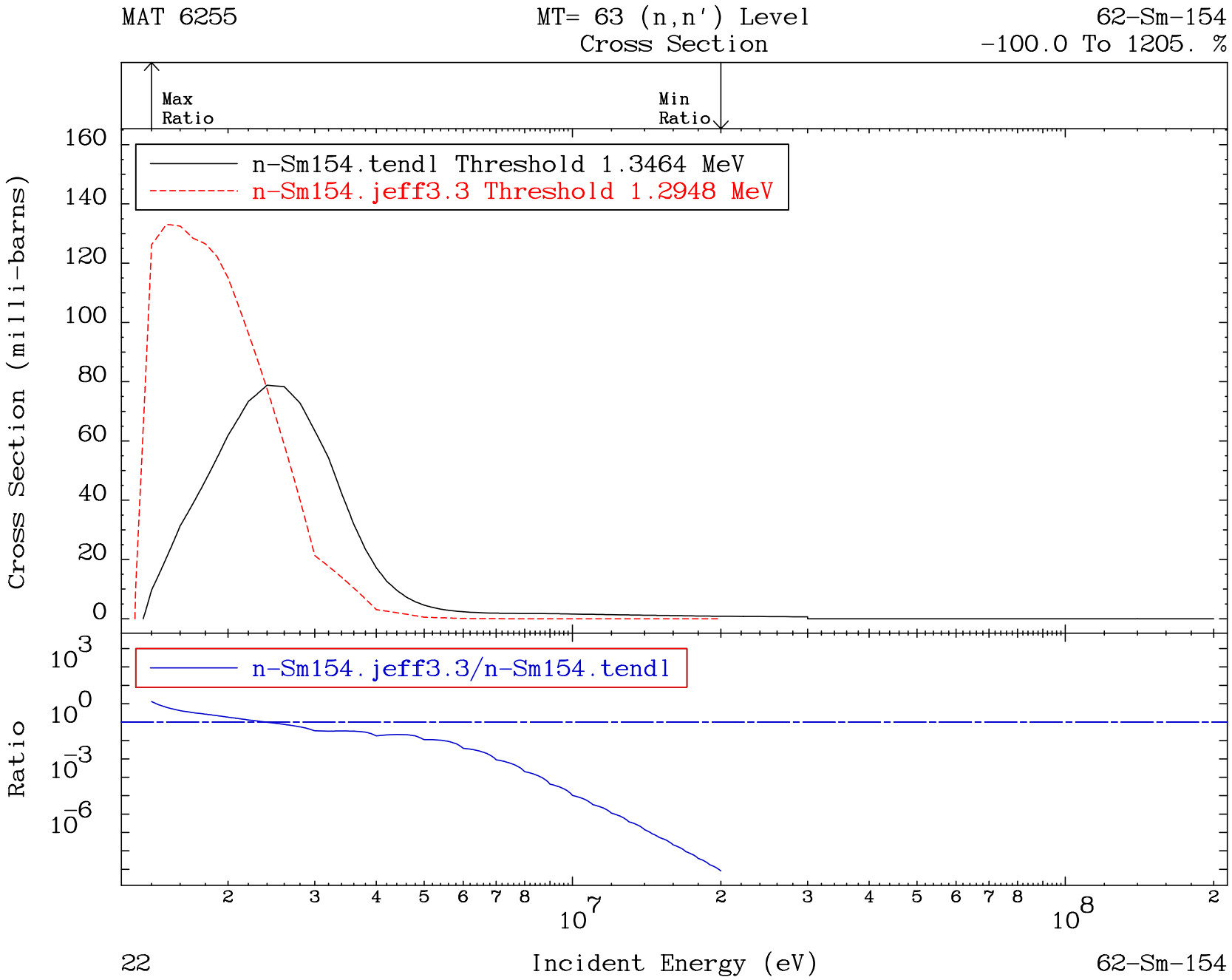

MAT 6255
MT= 58 (n,n') Level
Cross Section
62-Sm-154
-100.0 To -70.08%
Max Ratio
Min Ratio
n-Sm154.tendl Threshold 1.1855 MeV
n-Sm154.jeff3.3 Threshold 1.1112 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
62-Sm-154

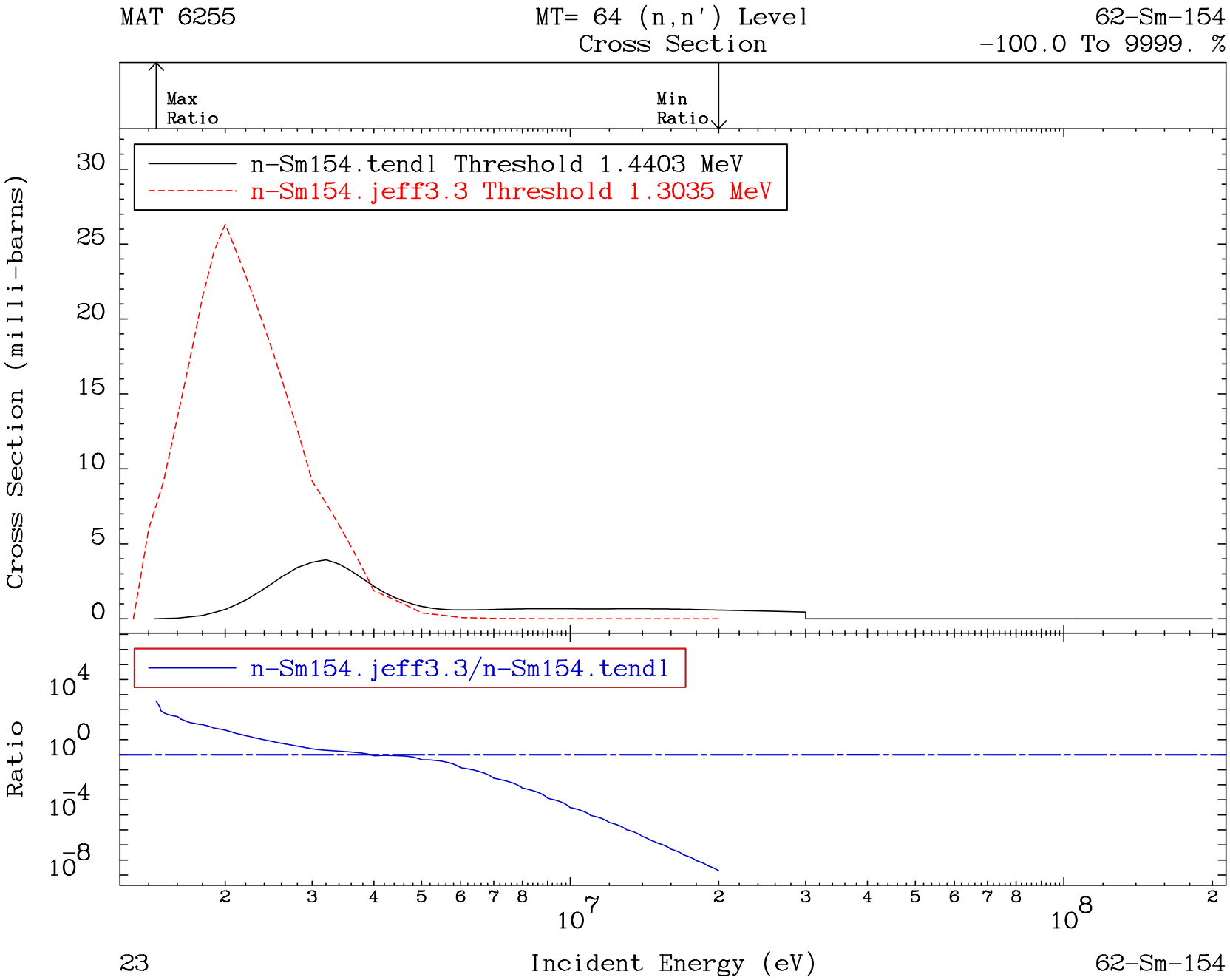

MAT 6255
MT= 59 (n,n') Level
Cross Section
62-Sm-154
-7.150 To 9999. %
Max Ratio
Min Ratio
n-Sm154.tendl Threshold 1.1890 MeV
n-Sm154.jeff3.3 Threshold 1.1273 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^3
10^2
10^1
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
62-Sm-154

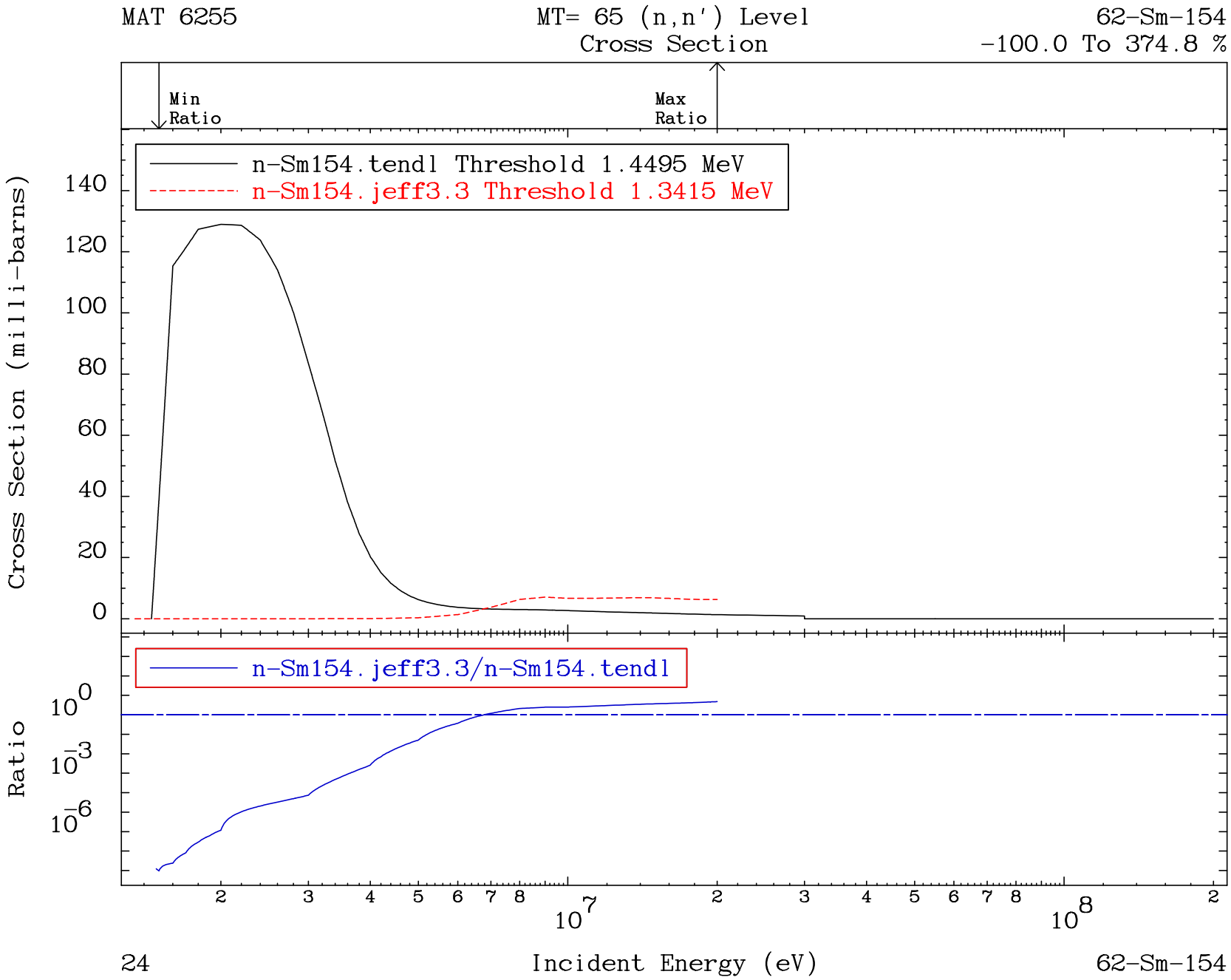

MAT 6255
MT= 60 (n,n') Level
Cross Section
62-Sm-154
10.54 To 9999. %
Min Ratio
Max Ratio
n-Sm154.tendl Threshold 1.2103 MeV
n-Sm154.jeff3.3 Threshold 1.1855 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^9
10^6
10^3
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
62-Sm-154

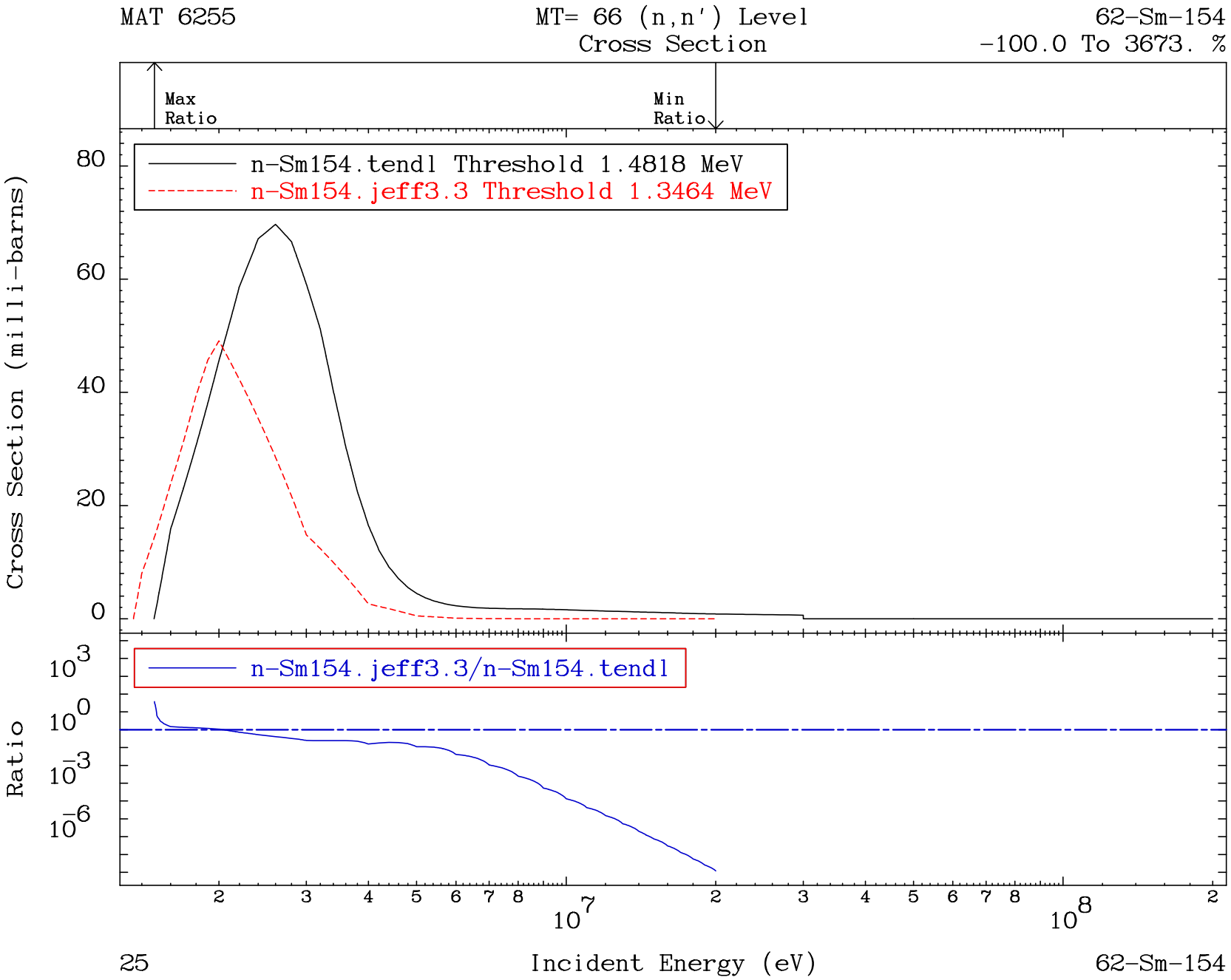

MAT 6255
MT= 61 (n,n') Level
Cross Section
62-Sm-154
-95.82 To 738.2 %
Min Ratio
Max Ratio
n-Sm154.tendl Threshold 1.2947 MeV
n-Sm154.jeff3.3 Threshold 1.1884 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^1
10^0
10^-1
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
62-Sm-154

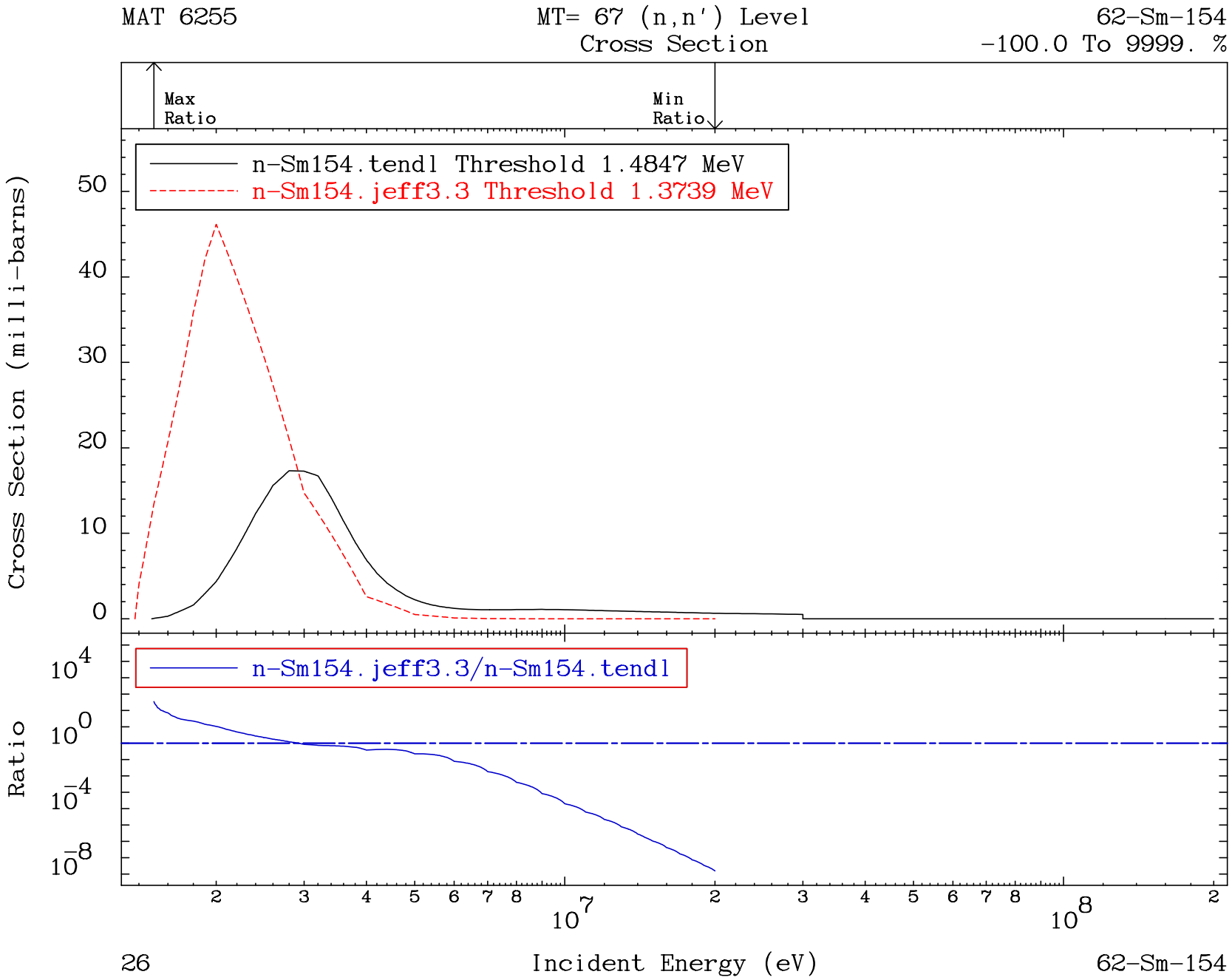

MAT 6255
MT= 62 (n,n') Level
Cross Section
62-Sm-154
-100.0 To 9999. %
Max
Ratio
Min
Ratio
n-Sm154.tendl Threshold 1.3417 MeV
n-Sm154.jeff3.3 Threshold 1.2103 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^12
10^6
10^0
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
21
Incident Energy (eV)
62-Sm-154

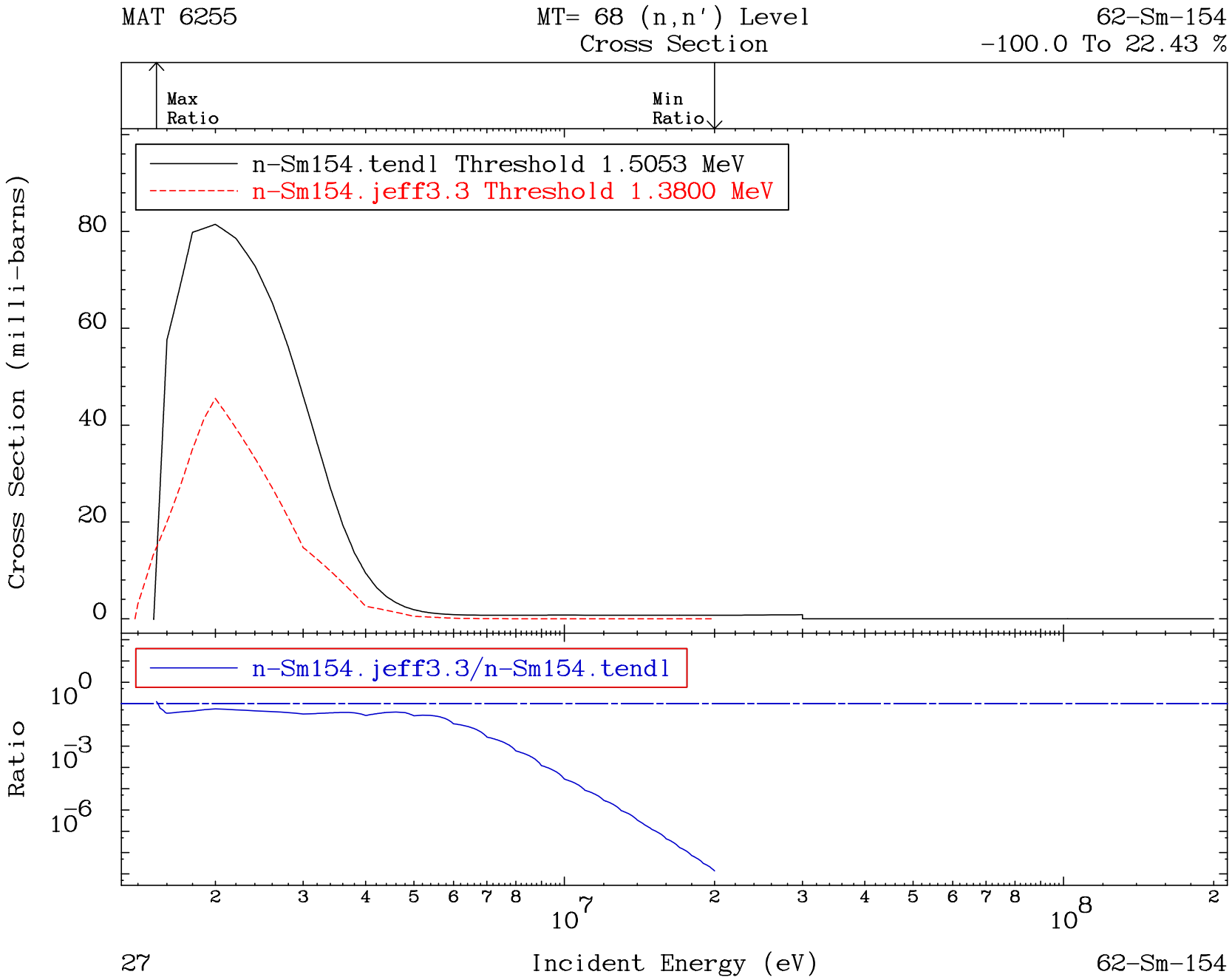

MAT 6255
MT= 63 (n,n') Level
Cross Section
62-Sm-154
-100.0 To 1205. %
Max
Ratio
Min
Ratio
n-Sm154.tendl Threshold 1.3464 MeV
n-Sm154.jeff3.3 Threshold 1.2948 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^3
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
10^8
22
Incident Energy (eV)
62-Sm-154

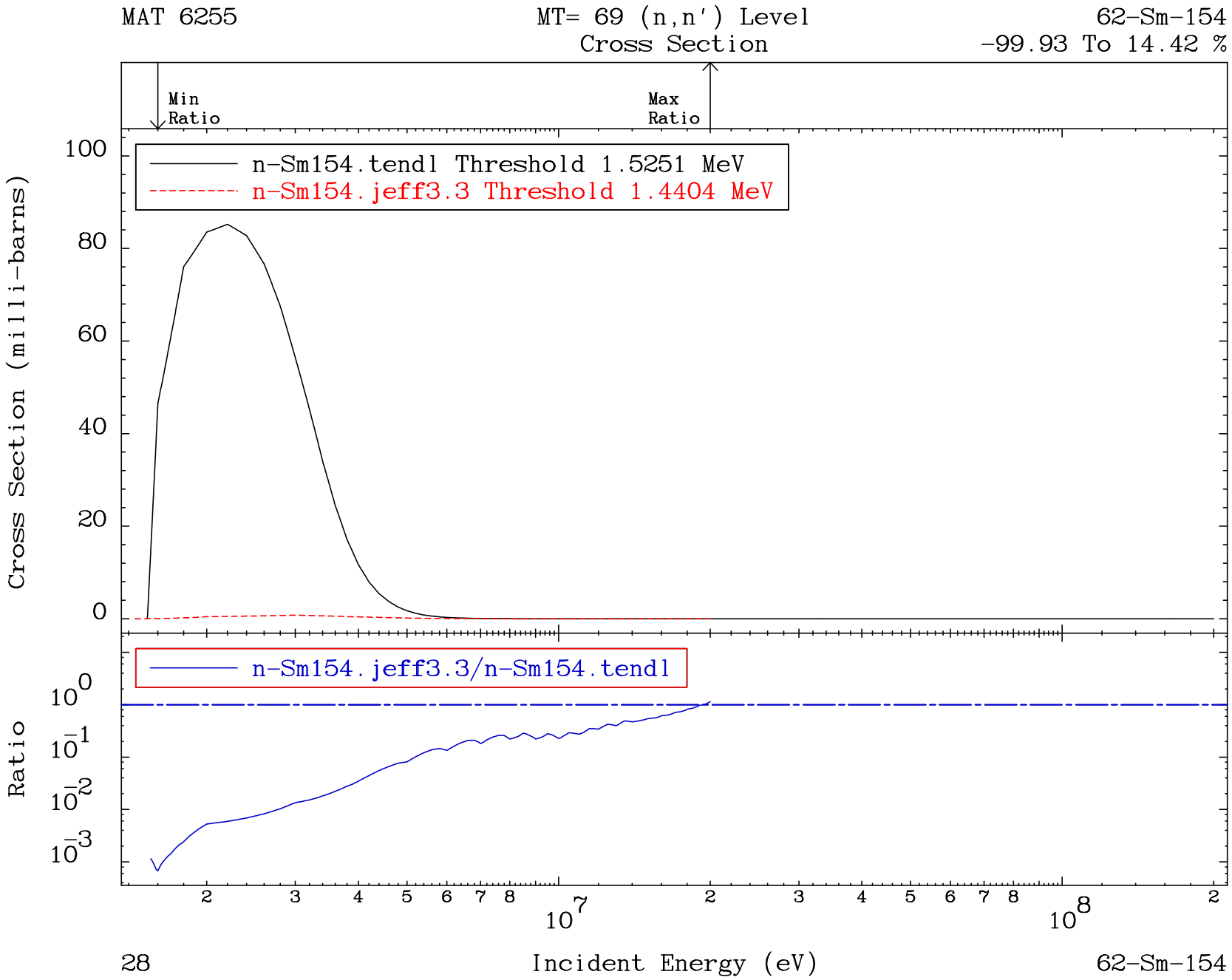

MAT 6255
MT= 64 (n,n') Level
Cross Section
62-Sm-154
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Sm154.tendl Threshold 1.4403 MeV
n-Sm154.jeff3.3 Threshold 1.3035 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^4
10^0
10^-4
10^-8
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
62-Sm-154

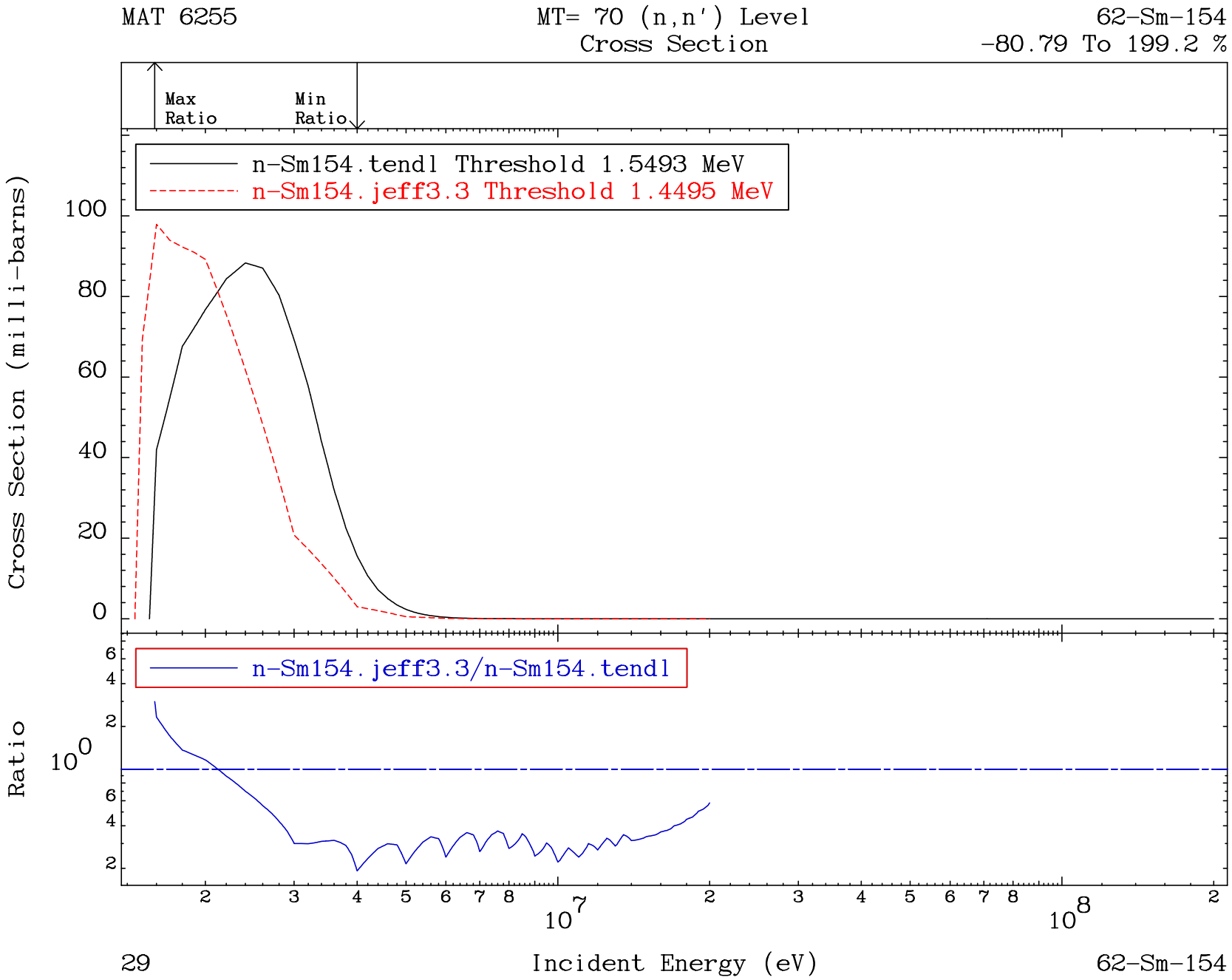

MAT 6255
MT= 65 (n,n') Level
Cross Section
62-Sm-154
-100.0 To 374.8 %
Min Ratio
Max Ratio
n-Sm154.tendl Threshold 1.4495 MeV
n-Sm154.jeff3.3 Threshold 1.3415 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
62-Sm-154

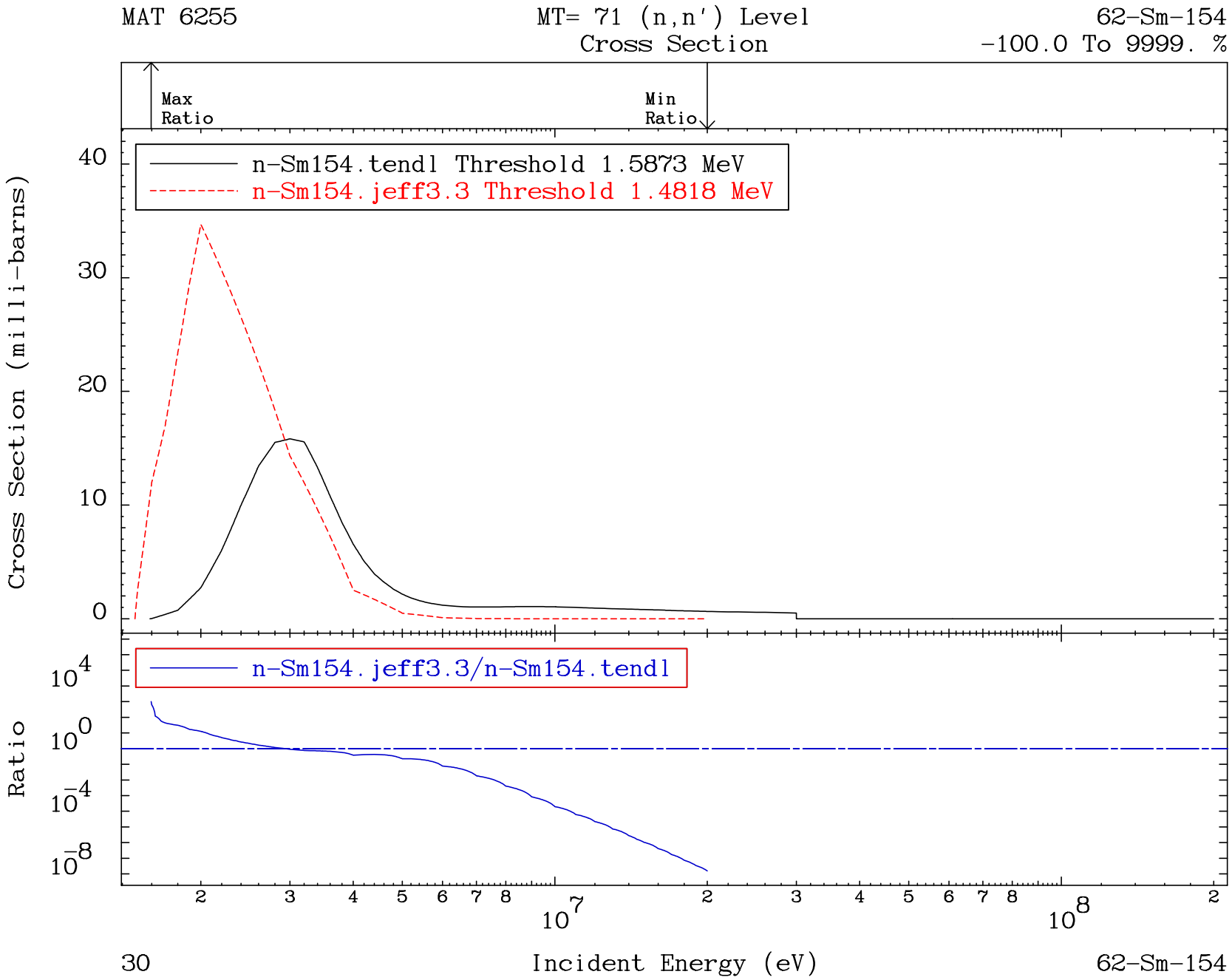

MAT 6255
MT= 66 (n,n') Level
Cross Section
62-Sm-154
-100.0 To 3673. %
Max Ratio
Min Ratio
n-Sm154.tendl Threshold 1.4818 MeV
n-Sm154.jeff3.3 Threshold 1.3464 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^3
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
62-Sm-154

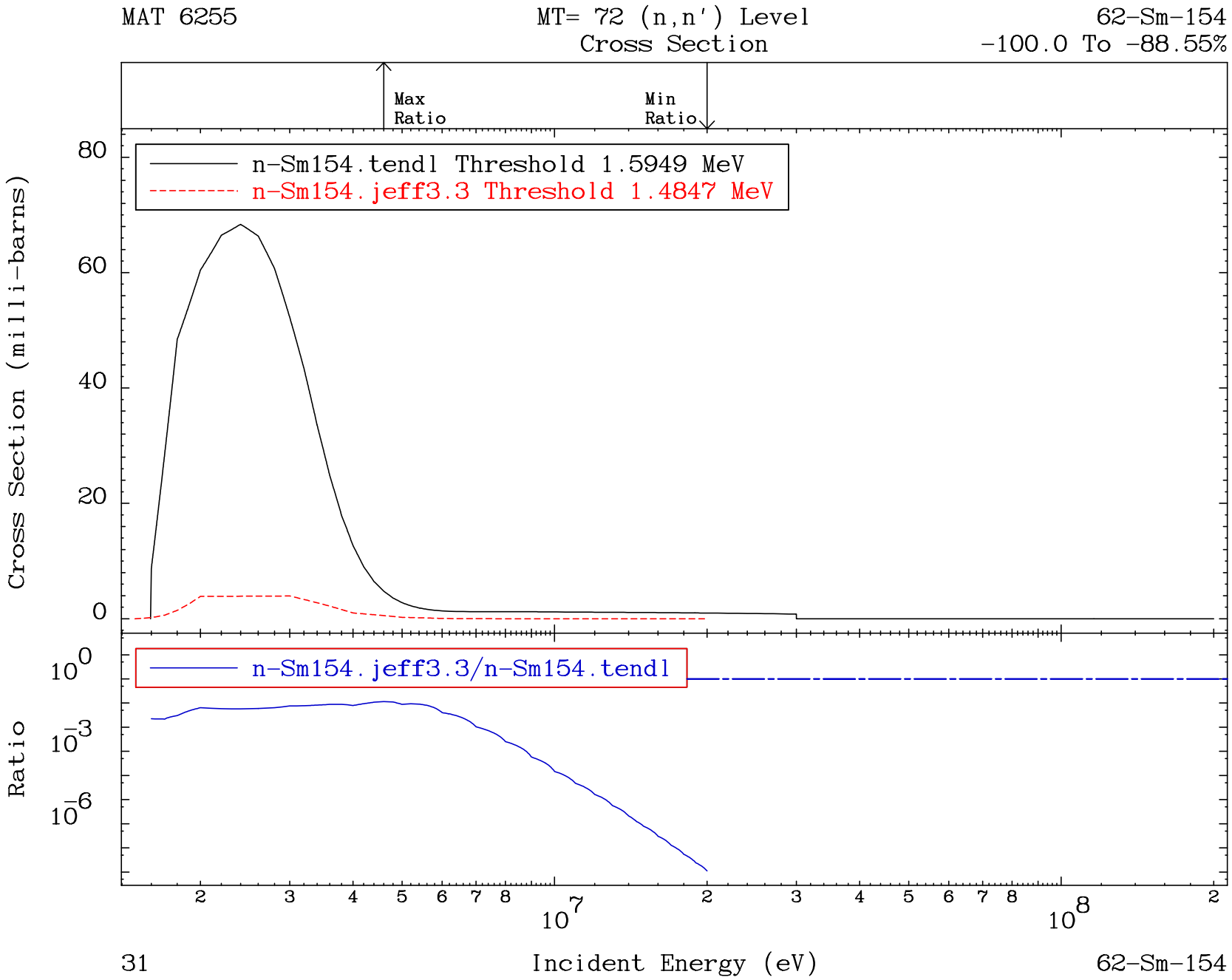

MAT 6255
MT= 67 (n,n') Level
Cross Section
62-Sm-154
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Sm154.tendl Threshold 1.4847 MeV
n-Sm154.jeff3.3 Threshold 1.3739 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^4
10^0
10^-4
10^-8
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
62-Sm-154

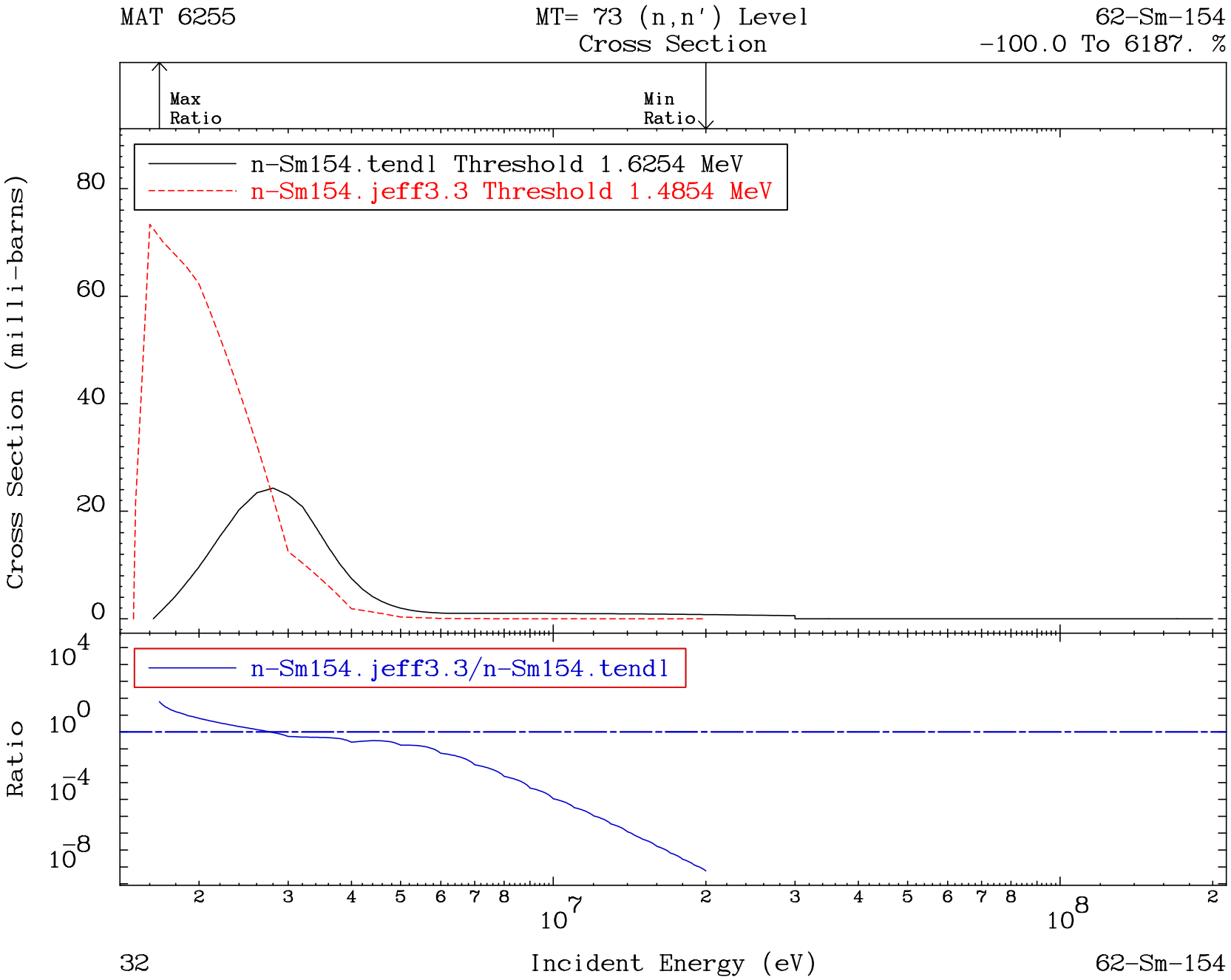

MAT 6255
MT= 68 (n,n') Level
Cross Section
62-Sm-154
-100.0 To 22.43 %
Max Ratio
Min Ratio
n-Sm154.tendl Threshold 1.5053 MeV
n-Sm154.jeff3.3 Threshold 1.3800 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
62-Sm-154

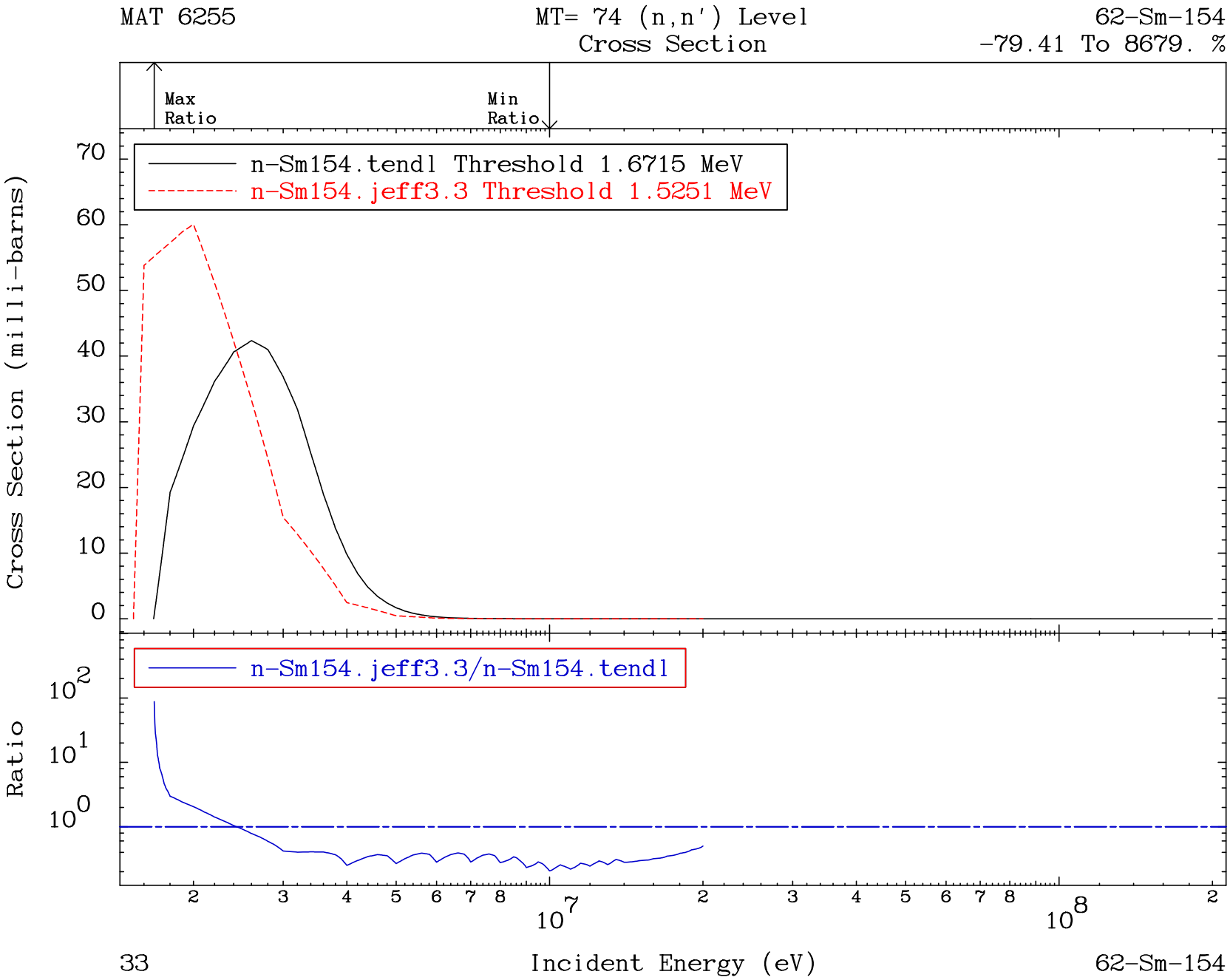

MAT 6255
MT= 69 (n,n') Level
Cross Section
62-Sm-154
-99.93 To 14.42 %
Min Ratio
Max Ratio
n-Sm154.tendl Threshold 1.5251 MeV
n-Sm154.jeff3.3 Threshold 1.4404 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^0
10^-1
10^-2
10^-3
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
62-Sm-154

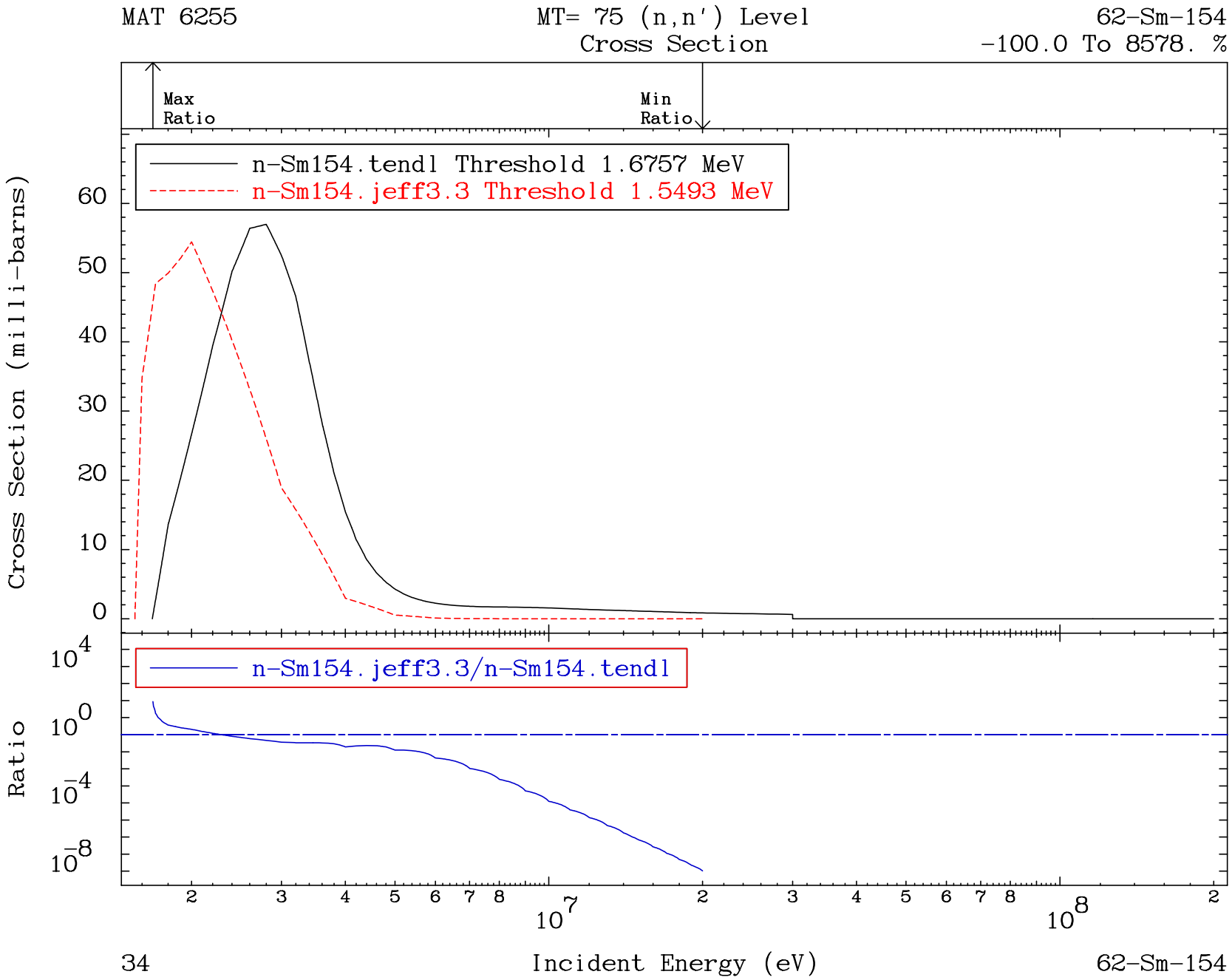

MAT 6255
MT= 70 (n,n') Level
Cross Section
62-Sm-154
-80.79 To 199.2 %
Max Ratio
Min Ratio
n-Sm154.tendl Threshold 1.5493 MeV
n-Sm154.jeff3.3 Threshold 1.4495 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
6
4
2
10^0
6
4
2
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
29
Incident Energy (eV)
62-Sm-154

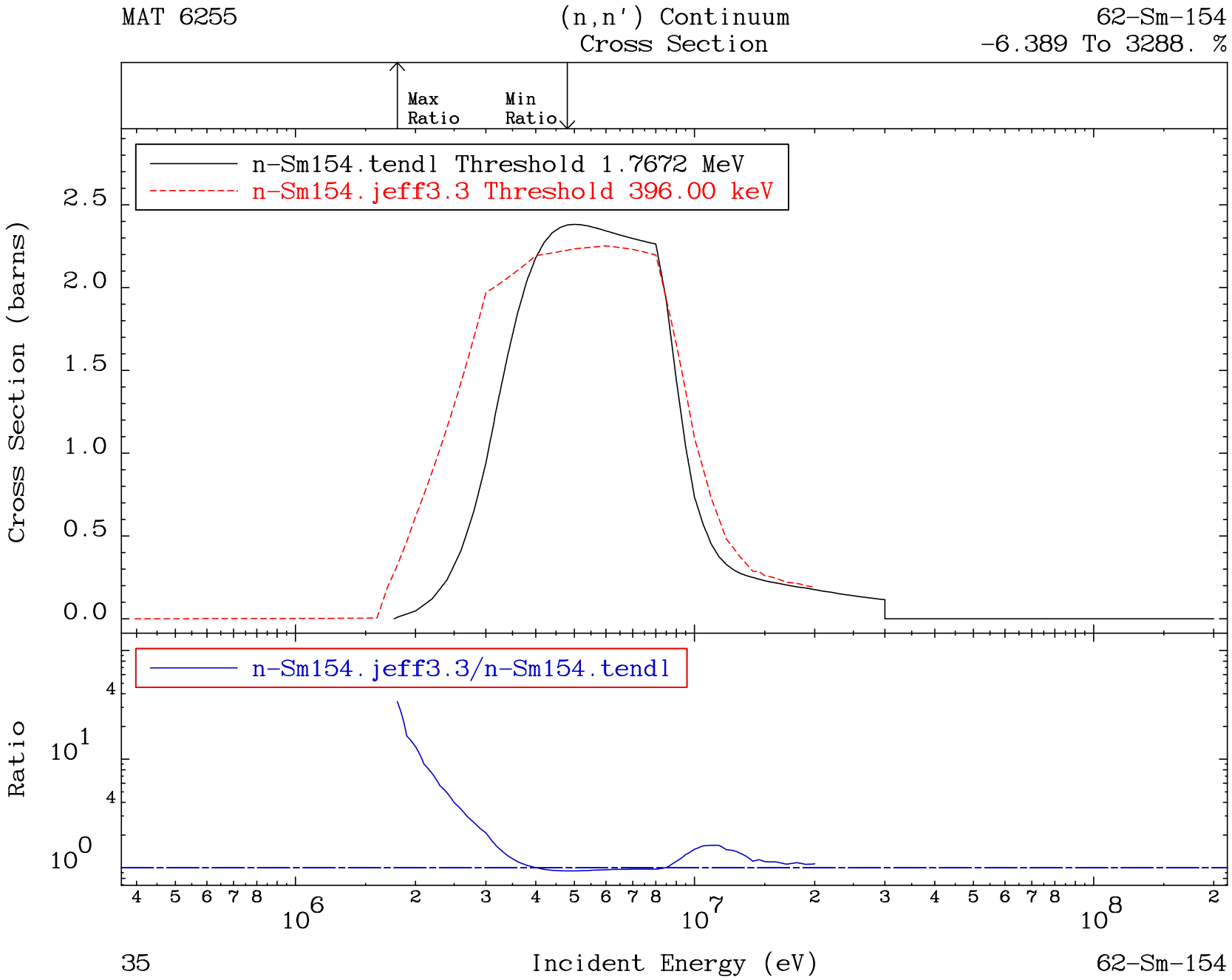

MAT 6255
MT= 71 (n,n') Level
Cross Section
62-Sm-154
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Sm154.tendl Threshold 1.5873 MeV
n-Sm154.jeff3.3 Threshold 1.4818 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^4
10^0
10^-4
10^-8
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
62-Sm-154

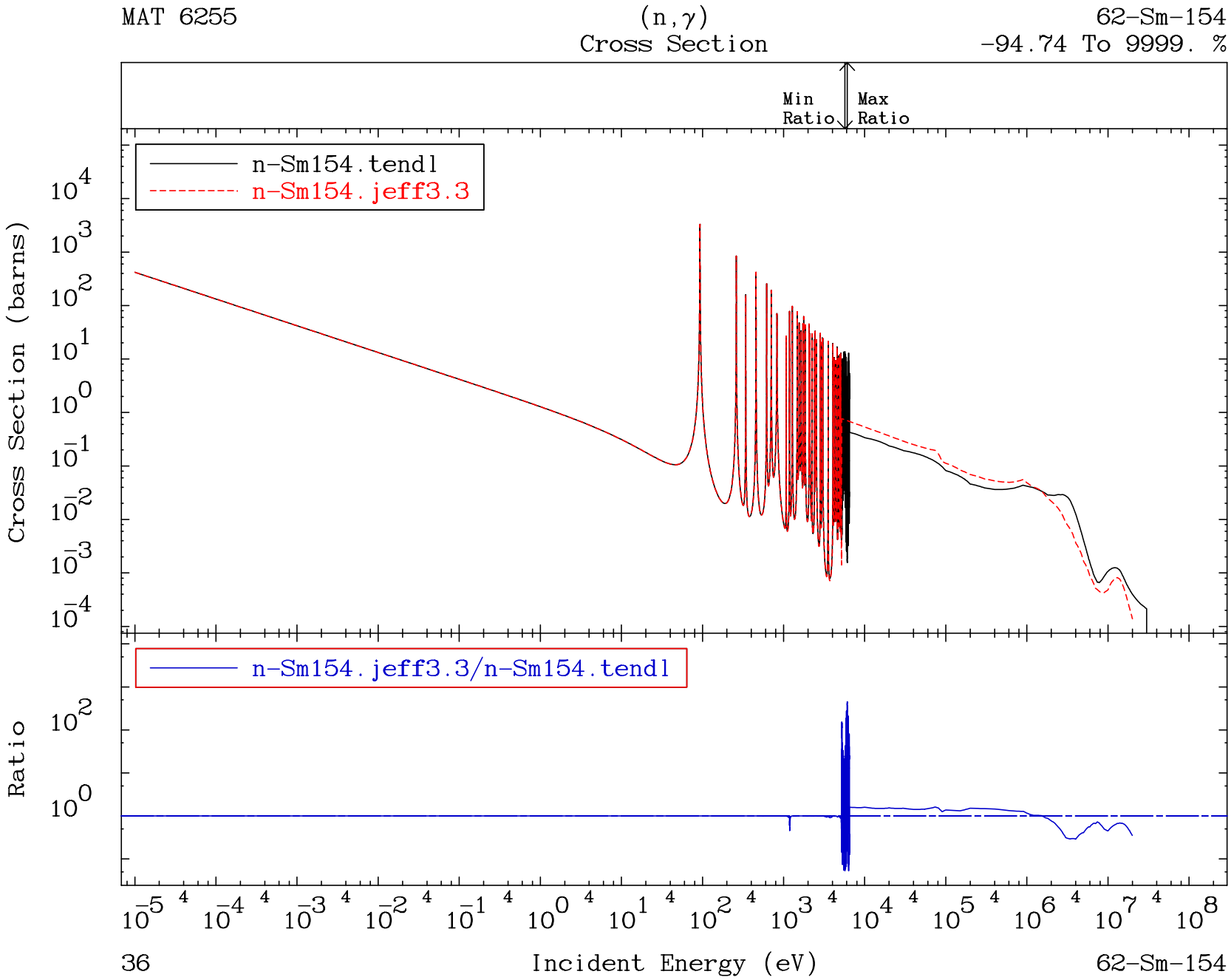

MAT 6255
MT= 72 (n,n') Level
Cross Section
62-Sm-154
-100.0 To -88.55%
Max
Ratio
Min
Ratio
n-Sm154.tendl Threshold 1.5949 MeV
n-Sm154.jeff3.3 Threshold 1.4847 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
31
Incident Energy (eV)
62-Sm-154

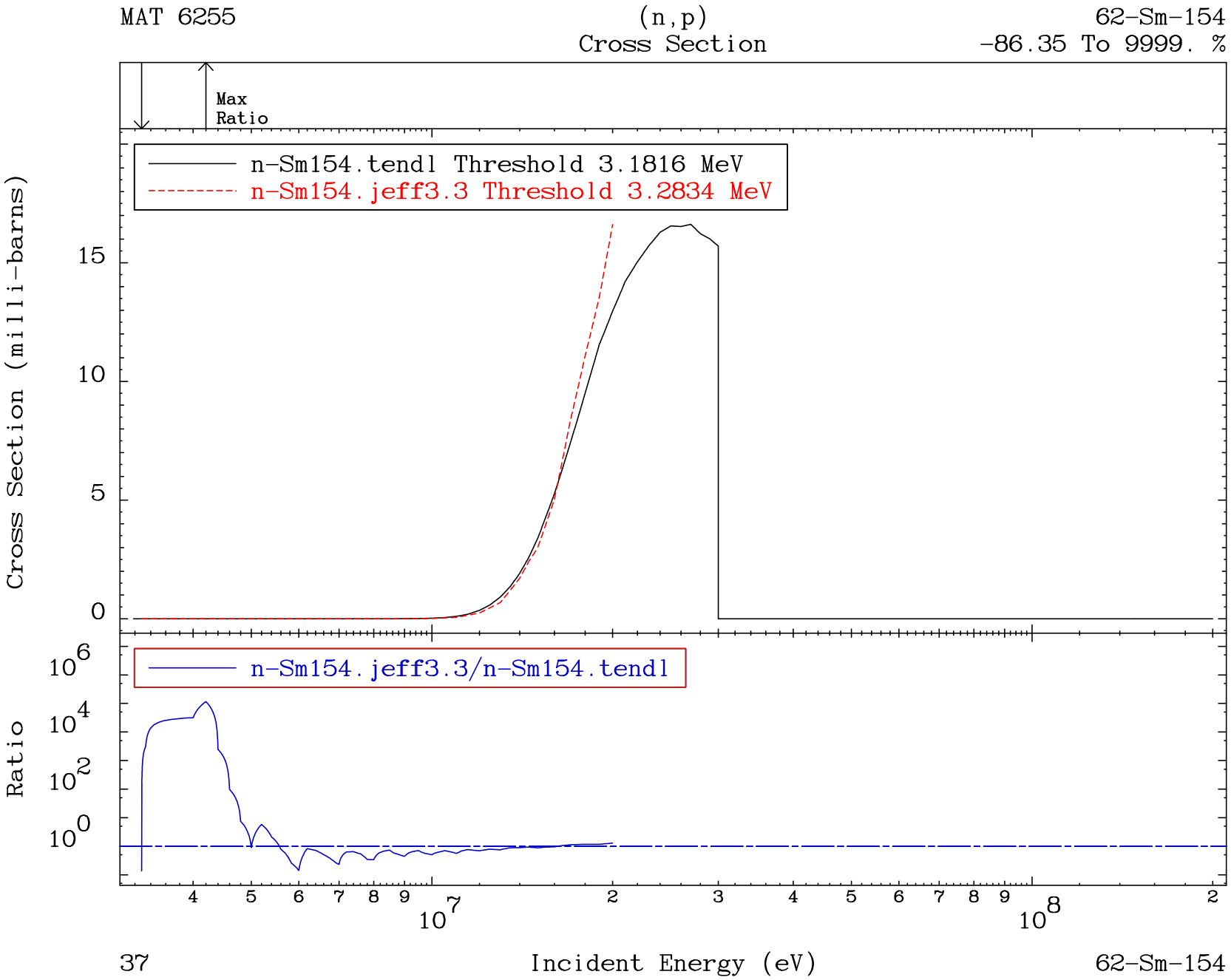

MAT 6255
MT= 73 (n,n') Level
Cross Section
62-Sm-154
-100.0 To 6187. %
Max Ratio
Min Ratio
n-Sm154.tendl Threshold 1.6254 MeV
n-Sm154.jeff3.3 Threshold 1.4854 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^4
10^0
10^-4
10^-8
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
32
Incident Energy (eV)
62-Sm-154

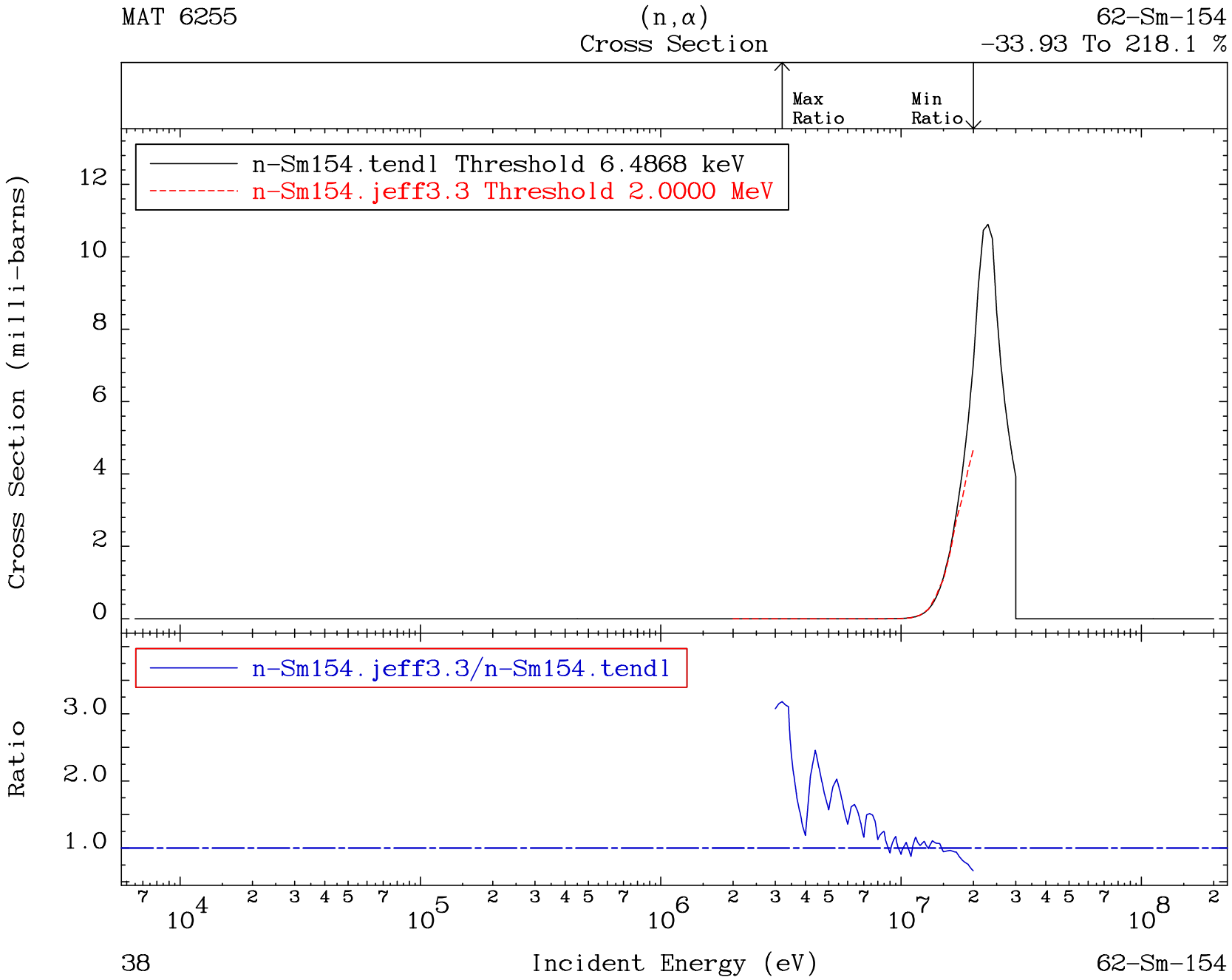

MAT 6255
MT= 74 (n,n') Level
Cross Section
62-Sm-154
-79.41 To 8679. %
Max Ratio
Min Ratio
n-Sm154.tendl Threshold 1.6715 MeV
n-Sm154.jeff3.3 Threshold 1.5251 MeV
Cross Section (milli-barns)
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
Incident Energy (eV)
33
62-Sm-154

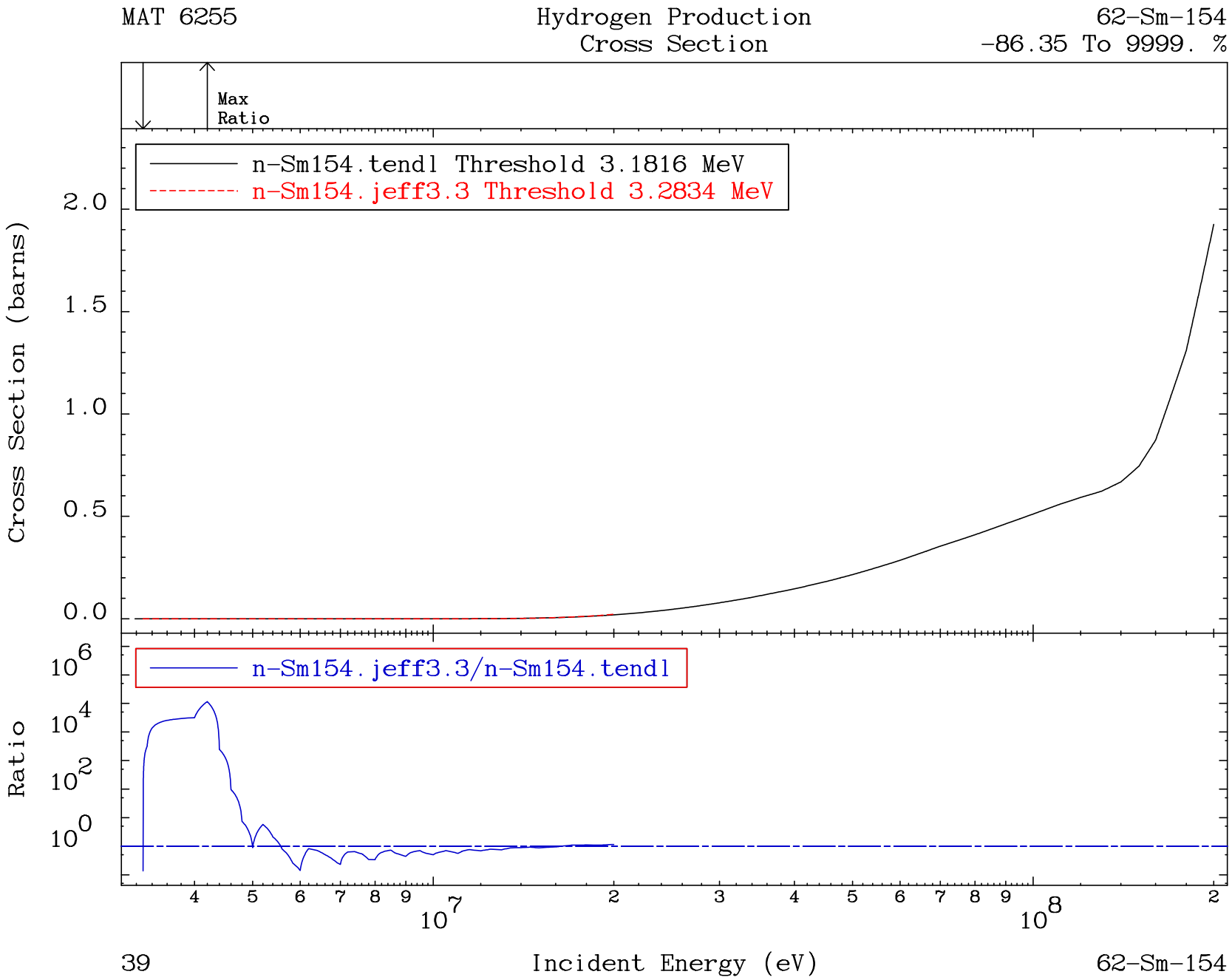

MAT 6255
MT= 75 (n,n') Level
Cross Section
62-Sm-154
-100.0 To 8578. %
Max
Ratio
Min
Ratio
n-Sm154.tendl Threshold 1.6757 MeV
n-Sm154.jeff3.3 Threshold 1.5493 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^4
10^0
10^-4
10^-8
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
34
Incident Energy (eV)
62-Sm-154

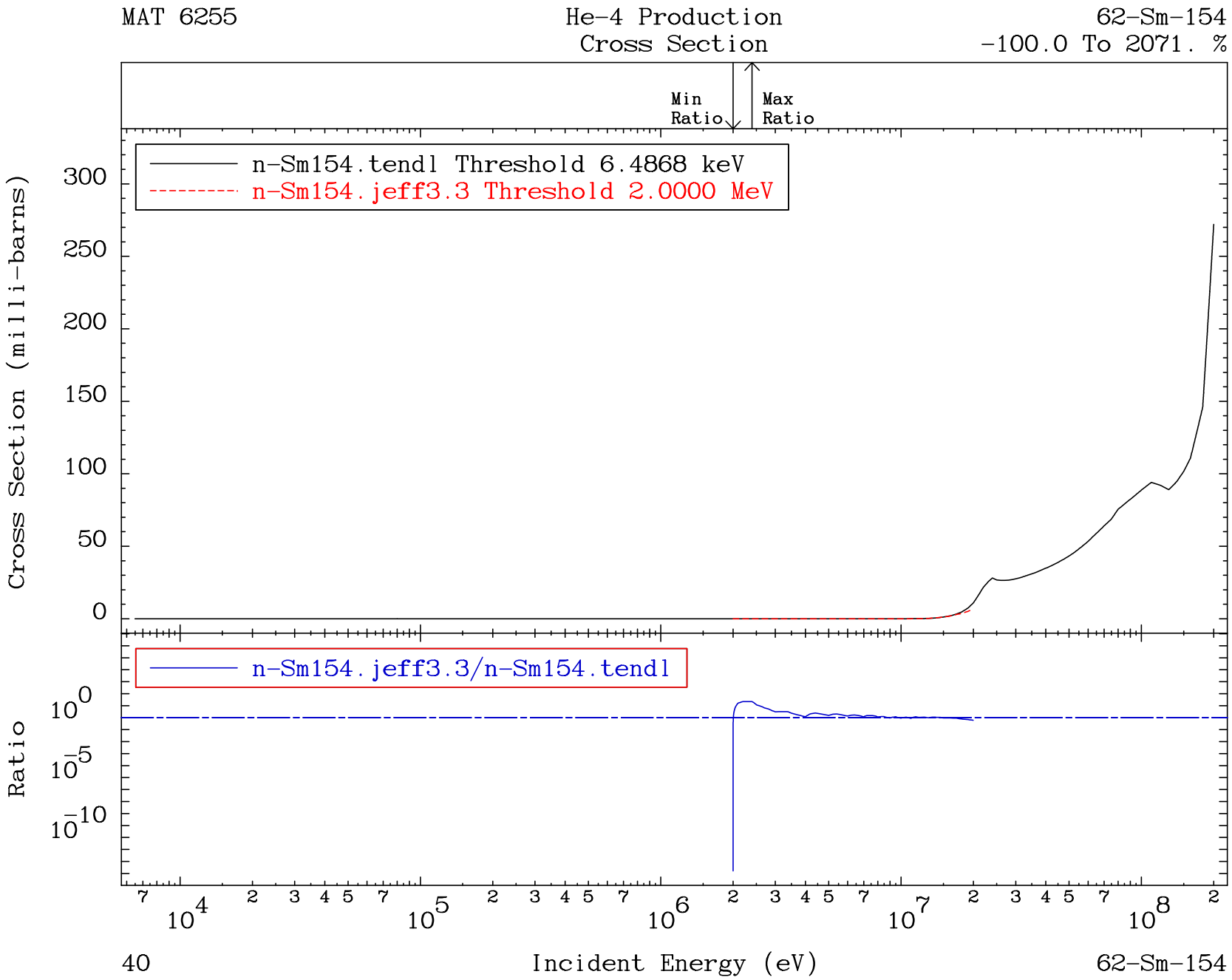

MAT 6255
(n,n') Continuum
Cross Section
62-Sm-154
-6.389 To 3288. %
Max Ratio
Min Ratio
n-Sm154.tendl Threshold 1.7672 MeV
n-Sm154.jeff3.3 Threshold 396.00 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^1
10^0
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
35
Incident Energy (eV)
62-Sm-154

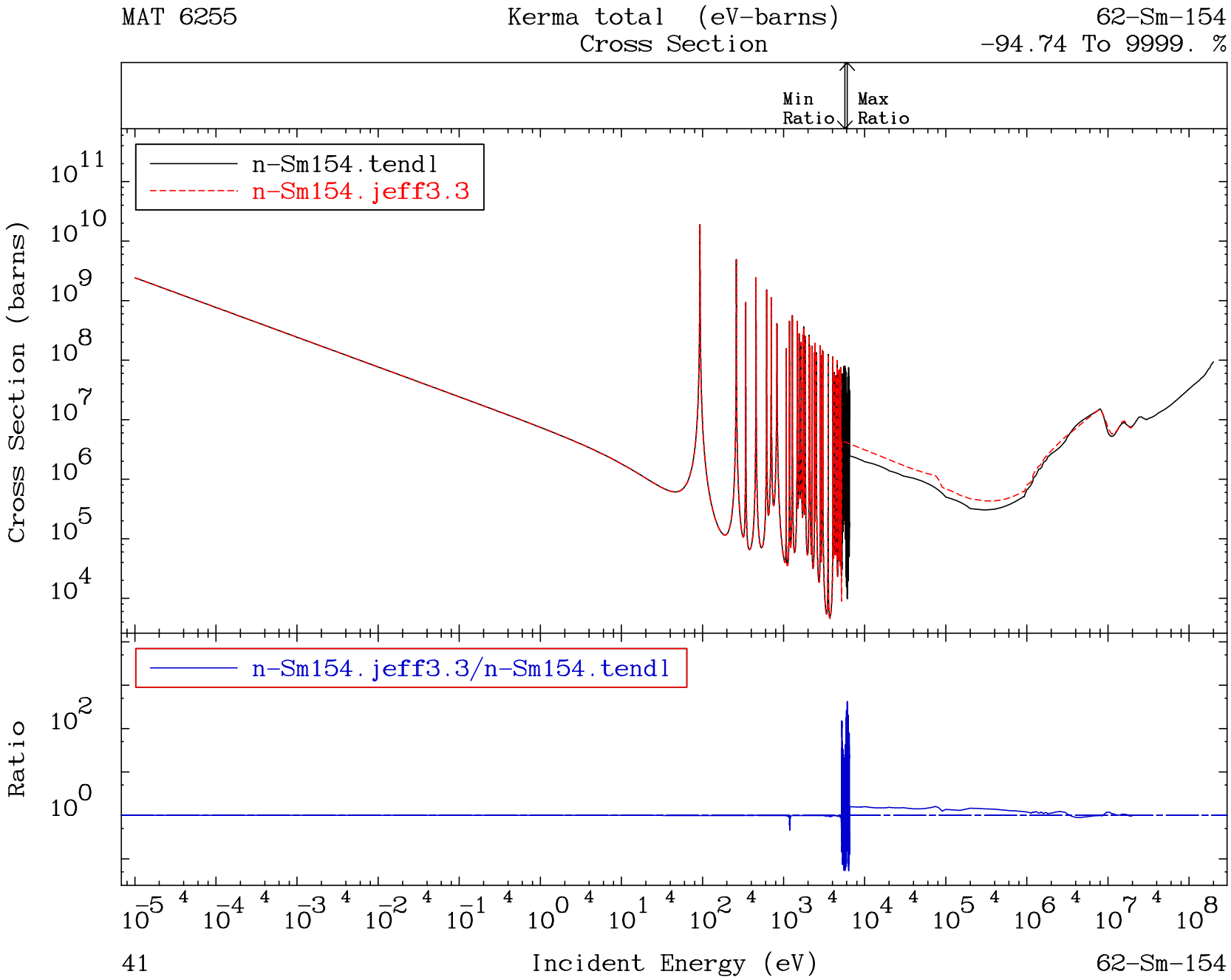

MAT 6255
(n,γ)
Cross Section
62-Sm-154
-94.74 To 9999. %
Min Ratio
Max Ratio
n-Sm154.tendl
n-Sm154.jeff3.3
Cross Section (barns)
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
Incident Energy (eV)
36
62-Sm-154

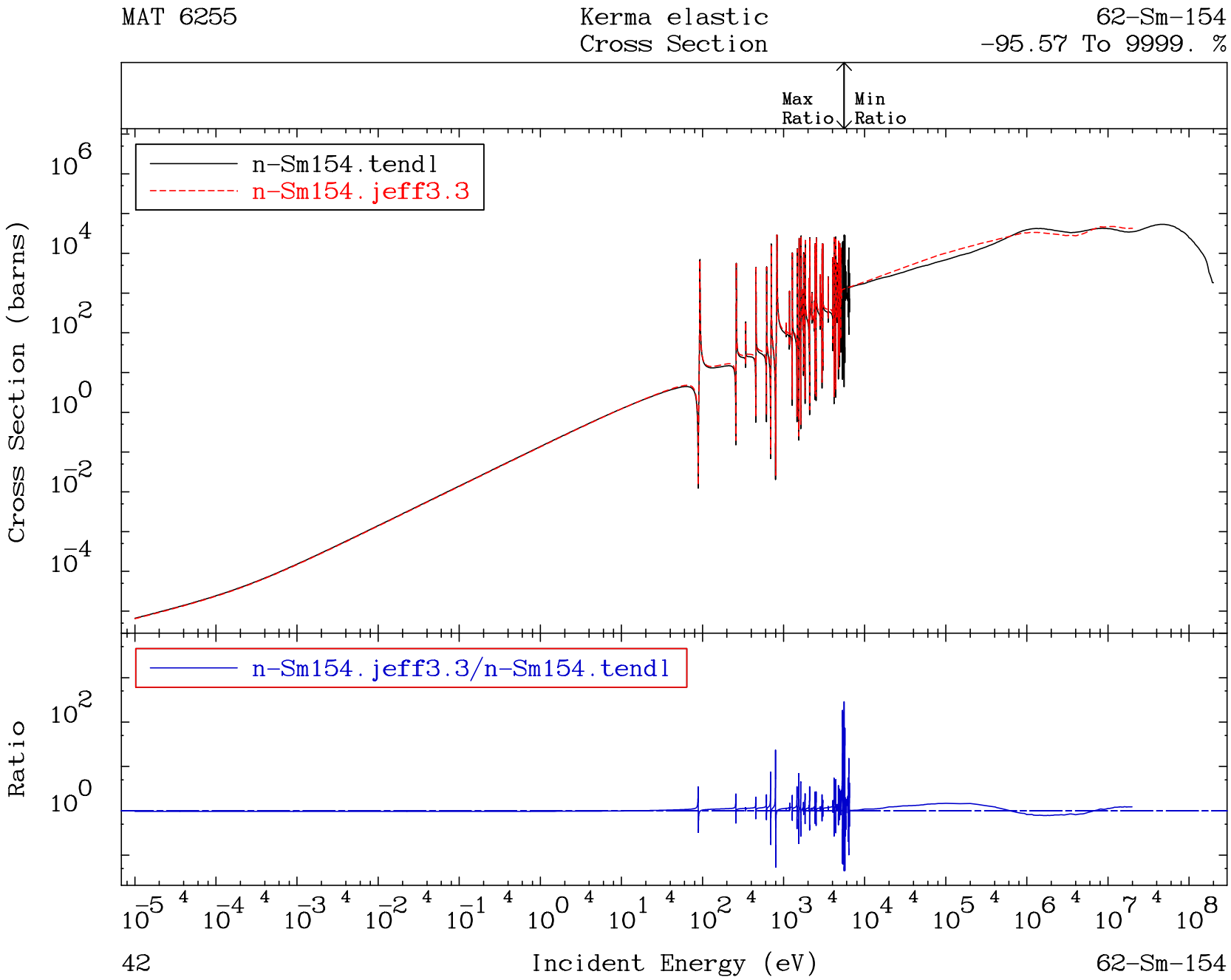

MAT 6255
(n,p)
Cross Section
62-Sm-154
-86.35 To 9999. %
Max
Ratio
n-Sm154.tendl Threshold 3.1816 MeV
n-Sm154.jeff3.3 Threshold 3.2834 MeV
Cross Section (milli-barns)
15
10
5
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^6
10^4
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
62-Sm-154

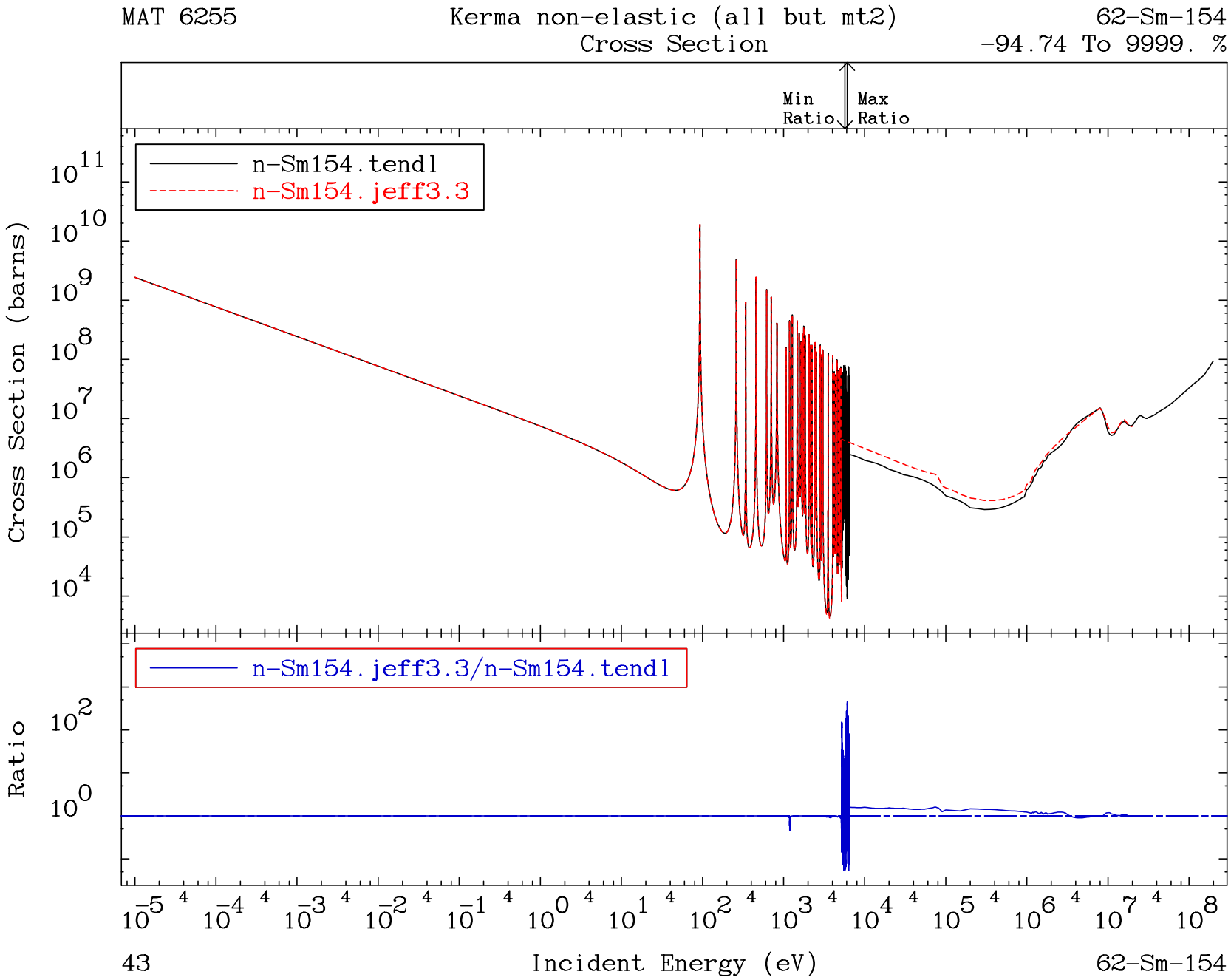

MAT 6255
(n,α)
Cross Section
62-Sm-154
-33.93 To 218.1 %
Max Ratio
Min Ratio
n-Sm154.tendl Threshold 6.4868 keV
n-Sm154.jeff3.3 Threshold 2.0000 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
1.0
2.0
3.0
10^4
10^5
10^6
10^7
10^8
38
Incident Energy (eV)
62-Sm-154

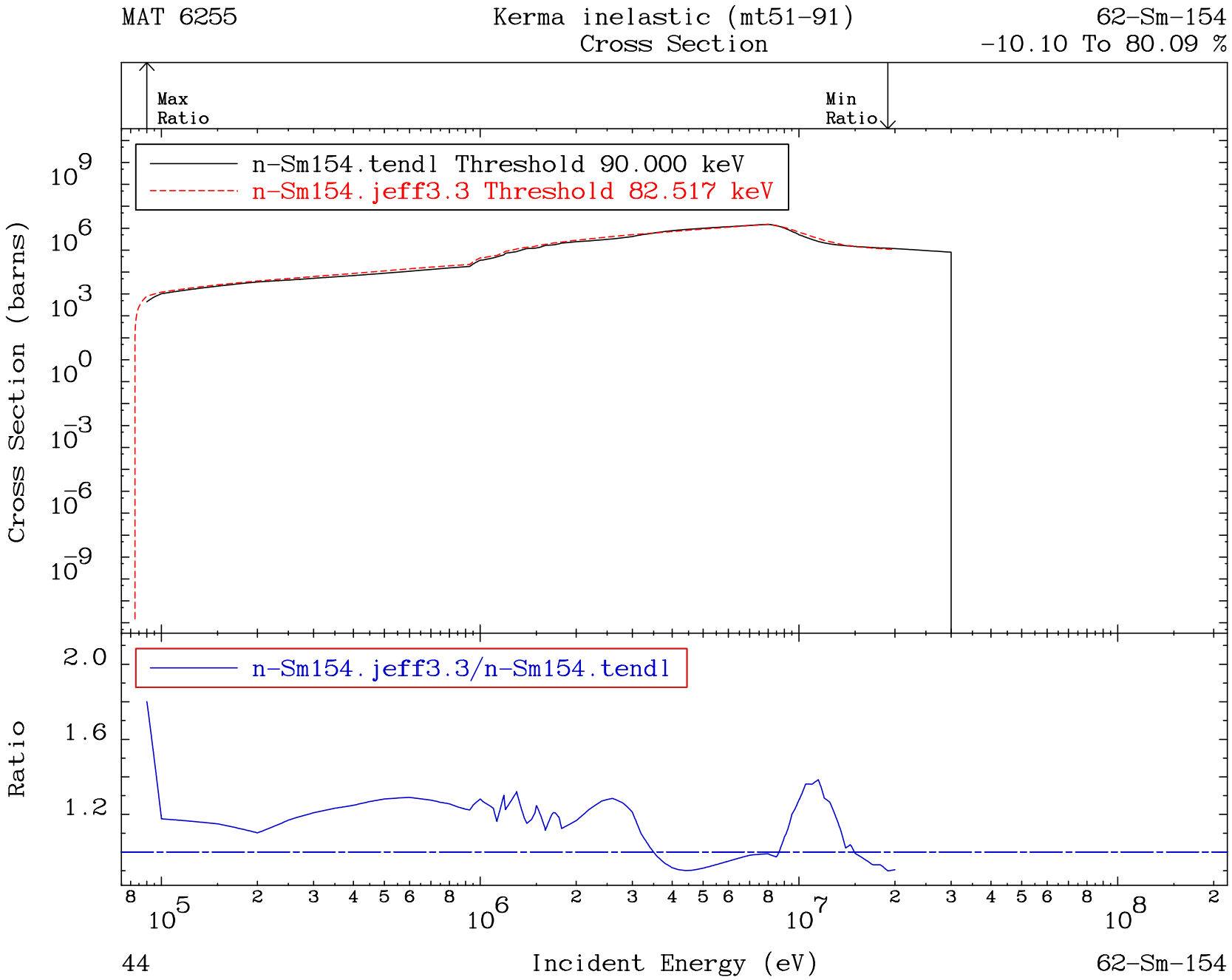

MAT 6255
Hydrogen Production
Cross Section
62-Sm-154
-86.35 To 9999. %
Max
Ratio
n-Sm154.tendl Threshold 3.1816 MeV
n-Sm154.jeff3.3 Threshold 3.2834 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^6
10^4
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
62-Sm-154

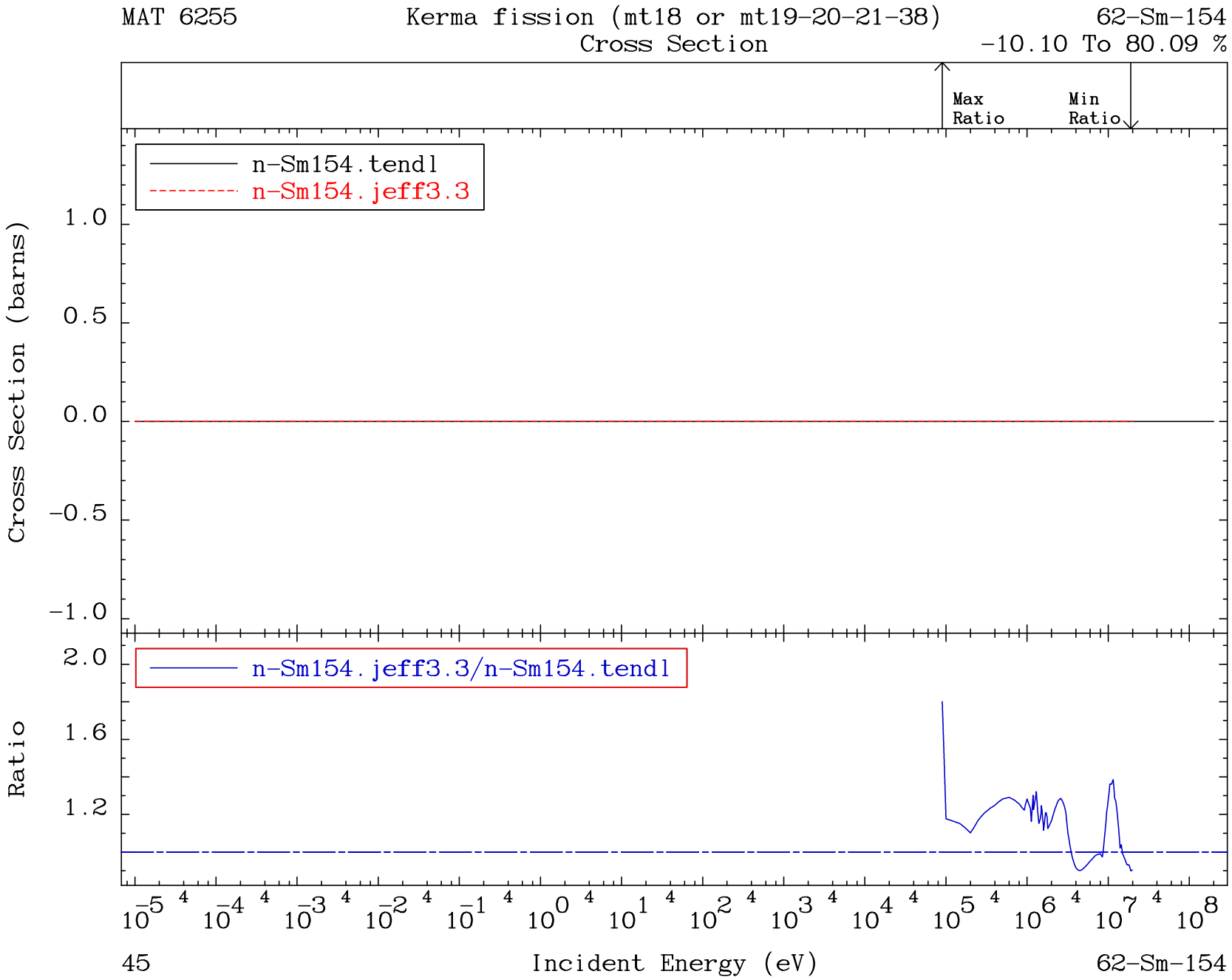

MAT 6255
He-4 Production
Cross Section
62-Sm-154
-100.0 To 2071. %
Min Ratio
Max Ratio
n-Sm154.tendl Threshold 6.4868 keV
n-Sm154.jeff3.3 Threshold 2.0000 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
10^0
10^-5
10^-10
10^4
10^5
10^6
10^7
10^8
40
Incident Energy (eV)
62-Sm-154

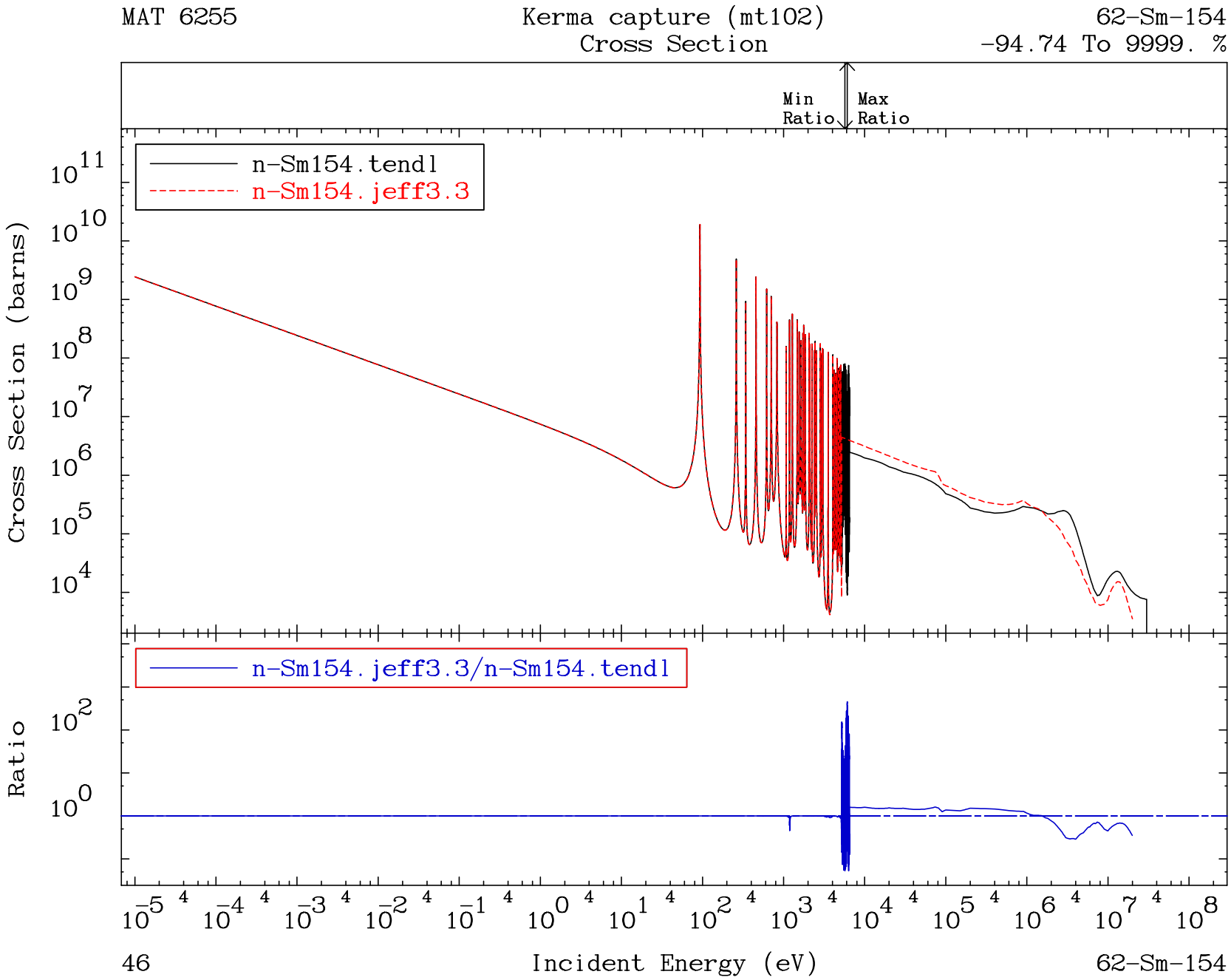

MAT 6255
Kerma total (eV-barns)
Cross Section
62-Sm-154
-94.74 To 9999. %
Min Ratio
Max Ratio
n-Sm154.tendl
n-Sm154.jeff3.3
Cross Section (barns)
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
Incident Energy (eV)
41
62-Sm-154

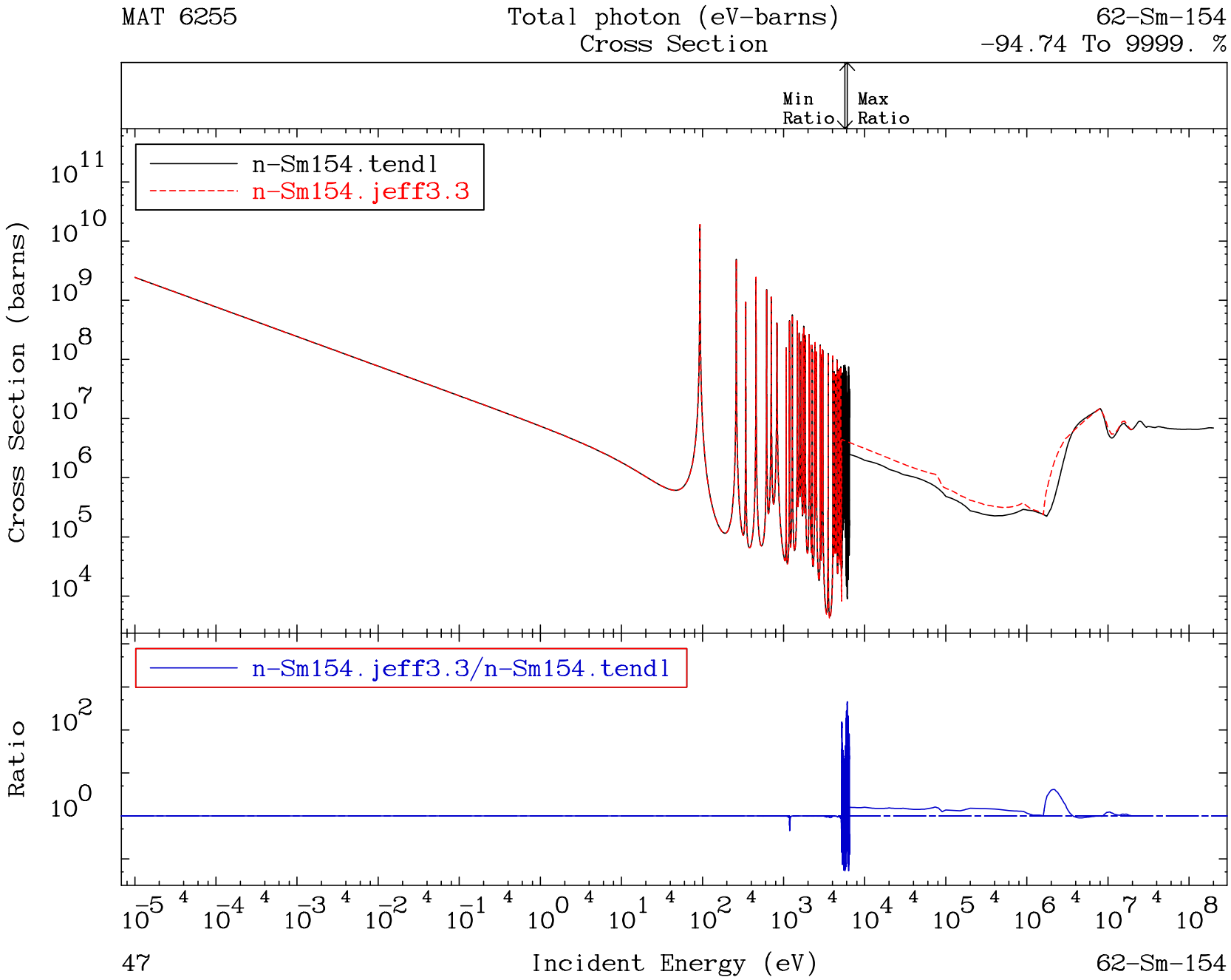

MAT 6255
Kerma elastic
Cross Section
62-Sm-154
-95.57 To 9999. %
Max Ratio
Min Ratio
n-Sm154.tendl
n-Sm154.jeff3.3
Cross Section (barns)
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
Incident Energy (eV)
42
62-Sm-154

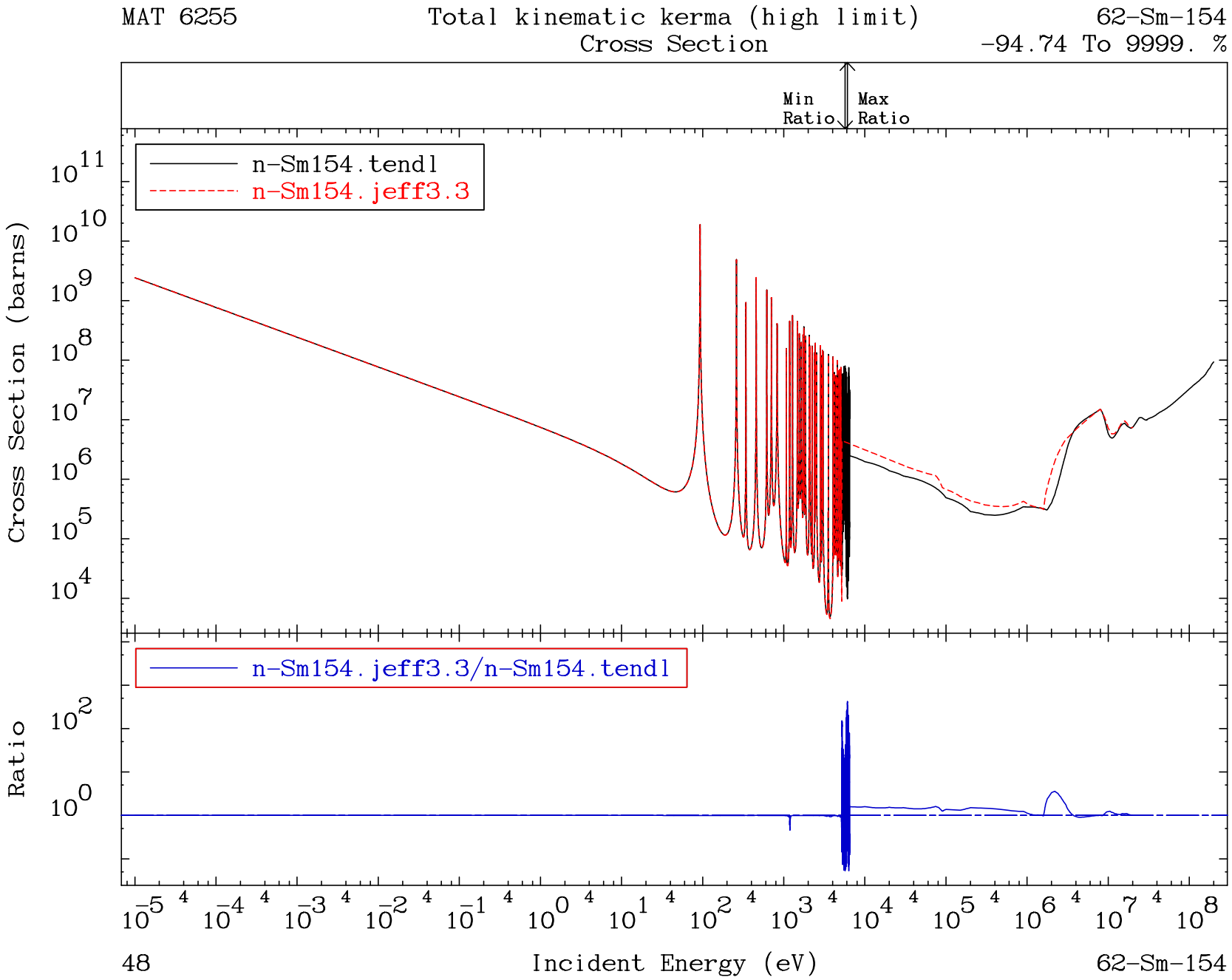

MAT 6255
Kerma non-elastic (all but mt2)
Cross Section
62-Sm-154
-94.74 To 9999. %
Min Ratio
Max Ratio
n-Sm154.tendl
n-Sm154.jeff3.3
Cross Section (barns)
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
Incident Energy (eV)
43
62-Sm-154

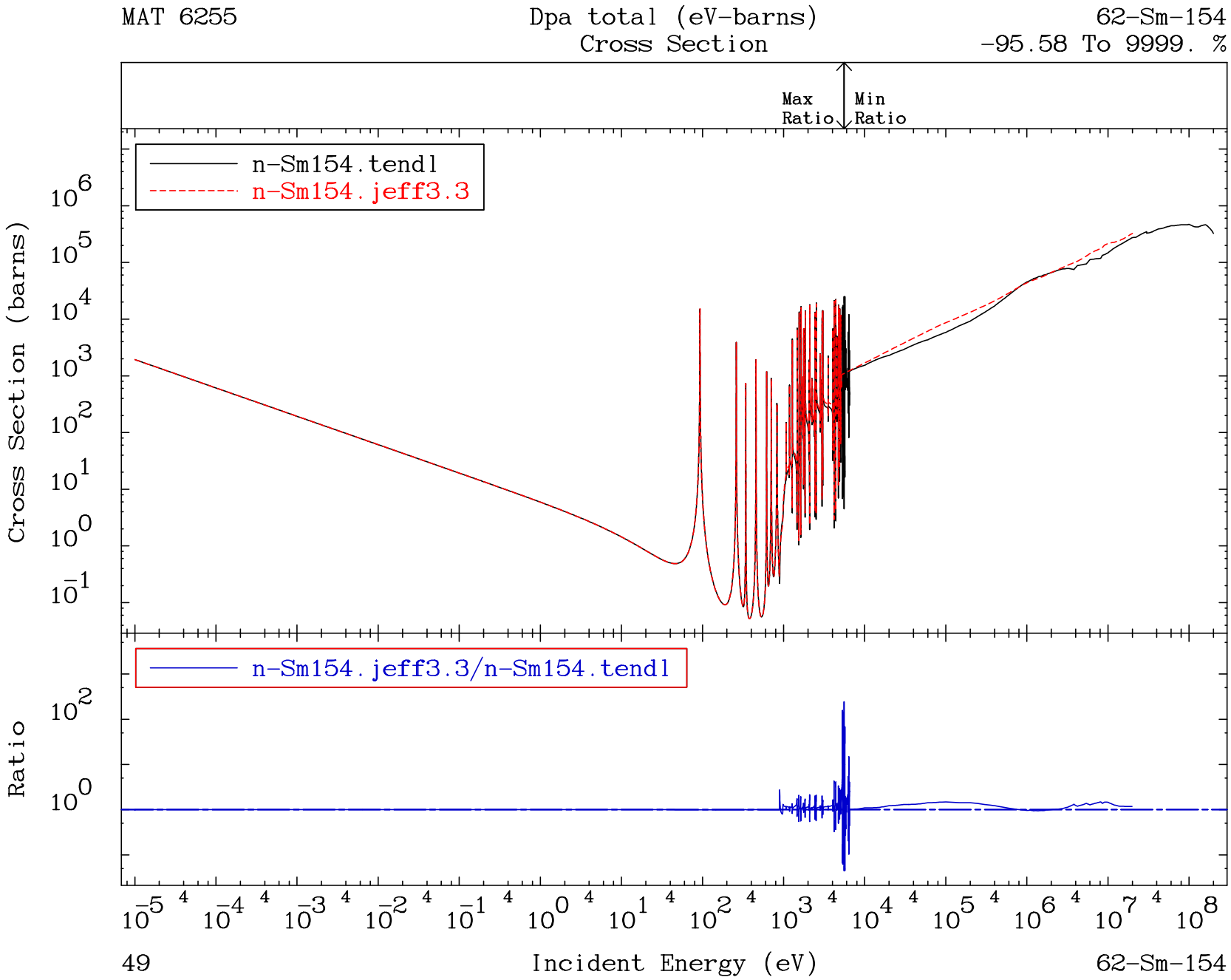

MAT 6255
Kerma inelastic (mt51-91)
Cross Section
62-Sm-154
-10.10 To 80.09 %
Max Ratio
Min Ratio
n-Sm154.tendl Threshold 90.000 keV
n-Sm154.jeff3.3 Threshold 82.517 keV
Cross Section (barns)
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
Incident Energy (eV)
44
62-Sm-154

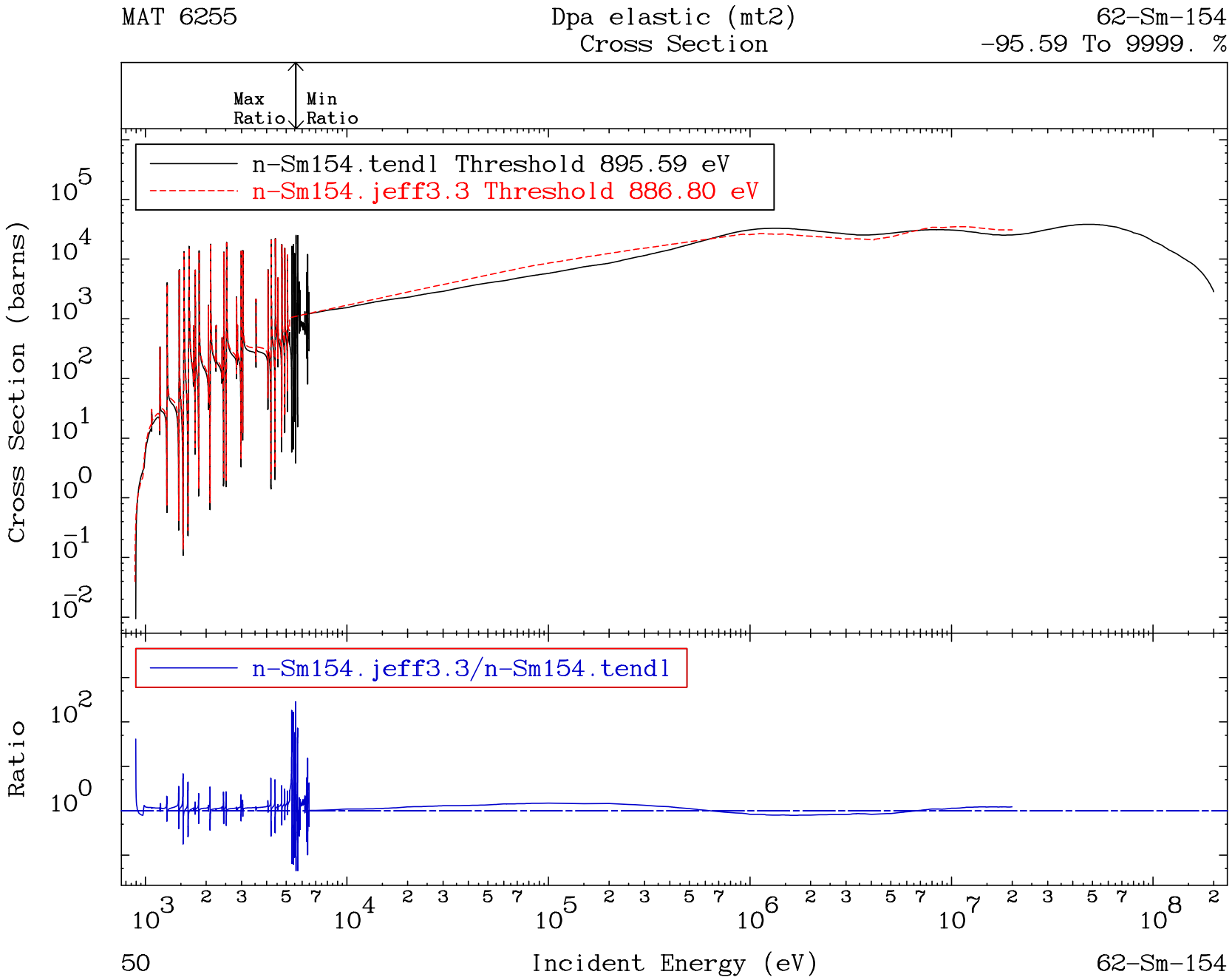

MAT 6255
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
62-Sm-154
-10.10 To 80.09 %
Max Ratio
Min Ratio
n-Sm154.tendl
n-Sm154.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
2.0
1.6
1.2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
45
Incident Energy (eV)
62-Sm-154

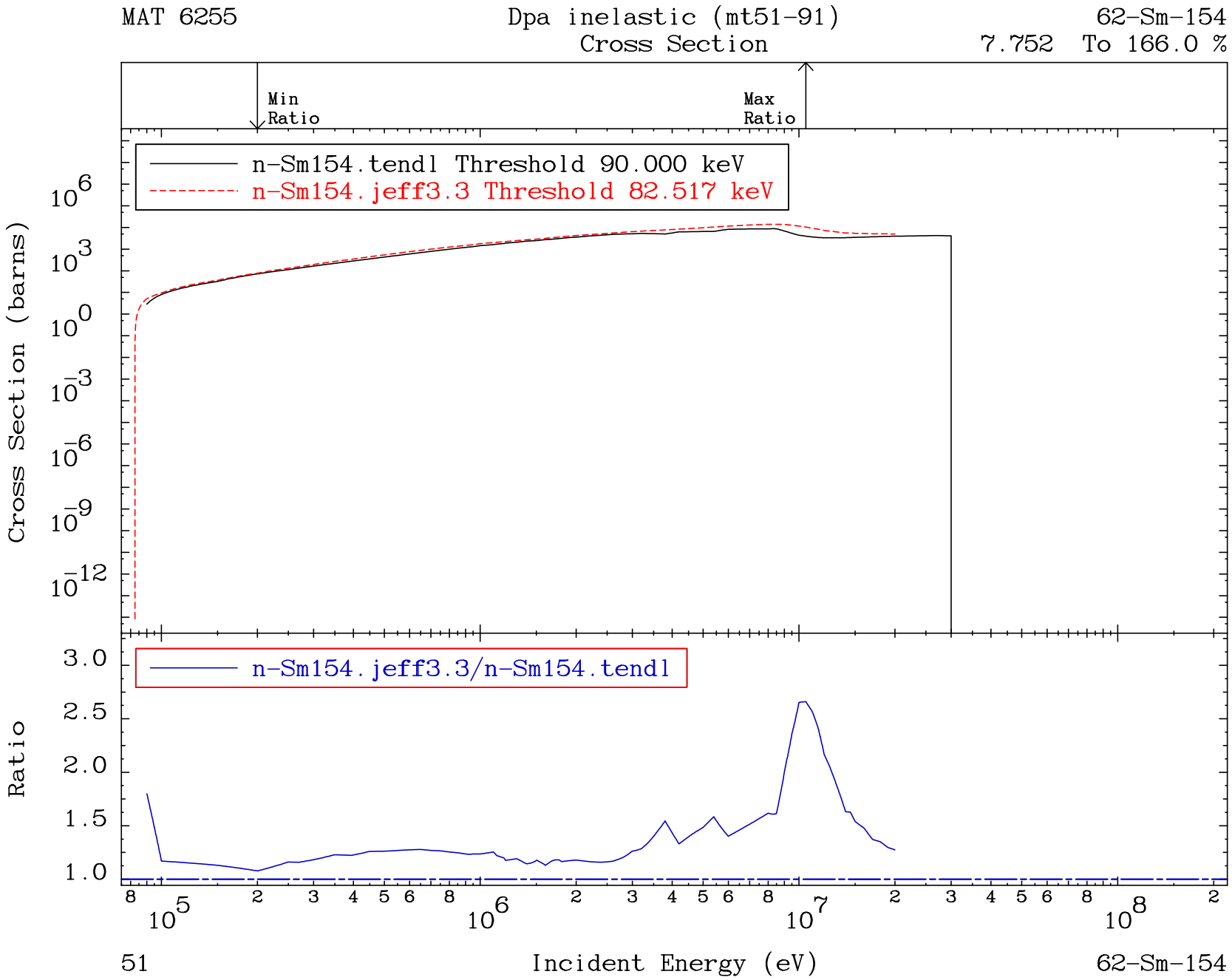

MAT 6255
Kerma capture (mt102)
Cross Section
62-Sm-154
-94.74 To 9999. %
Min Ratio
Max Ratio
n-Sm154.tendl
n-Sm154.jeff3.3
Cross Section (barns)
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
46
Incident Energy (eV)
62-Sm-154

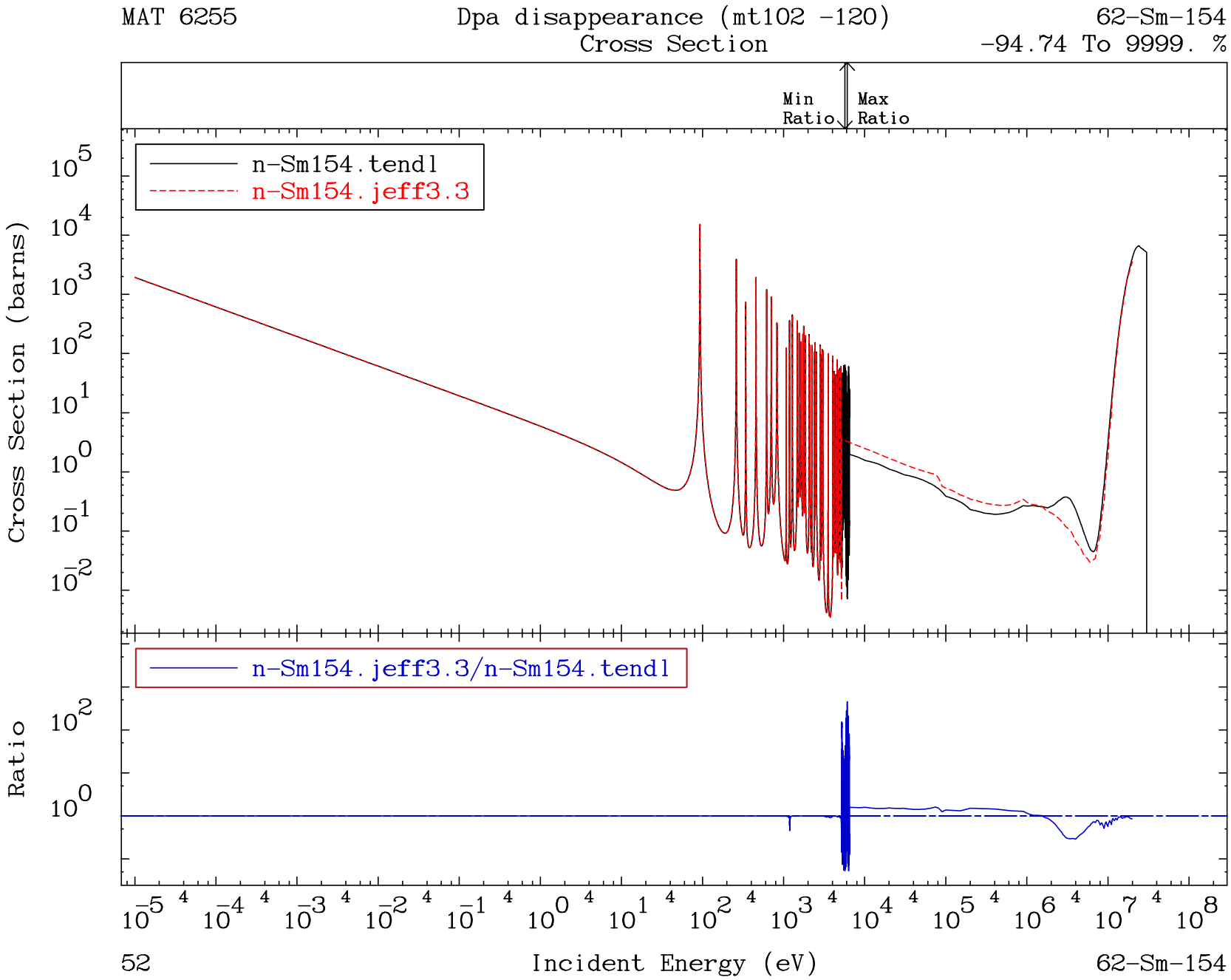

MAT 6255
Total photon (eV-barns)
Cross Section
62-Sm-154
-94.74 To 9999. %
Min Ratio
Max Ratio
n-Sm154.tendl
n-Sm154.jeff3.3
Cross Section (barns)
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
Incident Energy (eV)
47
62-Sm-154


MAT 6255
Total kinematic kerma (high limit)
Cross Section
62-Sm-154
-94.74 To 9999. %
Min Ratio
Max Ratio
n-Sm154.tendl
n-Sm154.jeff3.3
Cross Section (barns)
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
Incident Energy (eV)
48
62-Sm-154


MAT 6255
Dpa total (eV-barns)
Cross Section
62-Sm-154
-95.58 To 9999. %
Max Ratio
Min Ratio
n-Sm154.tendl
n-Sm154.jeff3.3
Cross Section (barns)
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
49
Incident Energy (eV)
62-Sm-154


MAT 6255
Dpa elastic (mt2)
Cross Section
62-Sm-154
-95.59 To 9999. %
Max Ratio
Min Ratio
n-Sm154.tendl Threshold 895.59 eV
n-Sm154.jeff3.3 Threshold 886.80 eV
Cross Section (barns)
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
Incident Energy (eV)
50
62-Sm-154


MAT 6255
Dpa inelastic (mt51-91)
Cross Section
62-Sm-154
7.752 To 166.0 %
Min Ratio
Max Ratio
n-Sm154.tendl Threshold 90.000 keV
n-Sm154.jeff3.3 Threshold 82.517 keV
Cross Section (barns)
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
Incident Energy (eV)
51
62-Sm-154


MAT 6255
Dpa disappearance (mt102 -120)
Cross Section
62-Sm-154
-94.74 To 9999. %
Min Ratio
Max Ratio
n-Sm154.tendl
n-Sm154.jeff3.3
Cross Section (barns)
n-Sm154.jeff3.3/n-Sm154.tendl
Ratio
Incident Energy (eV)
52
62-Sm-154