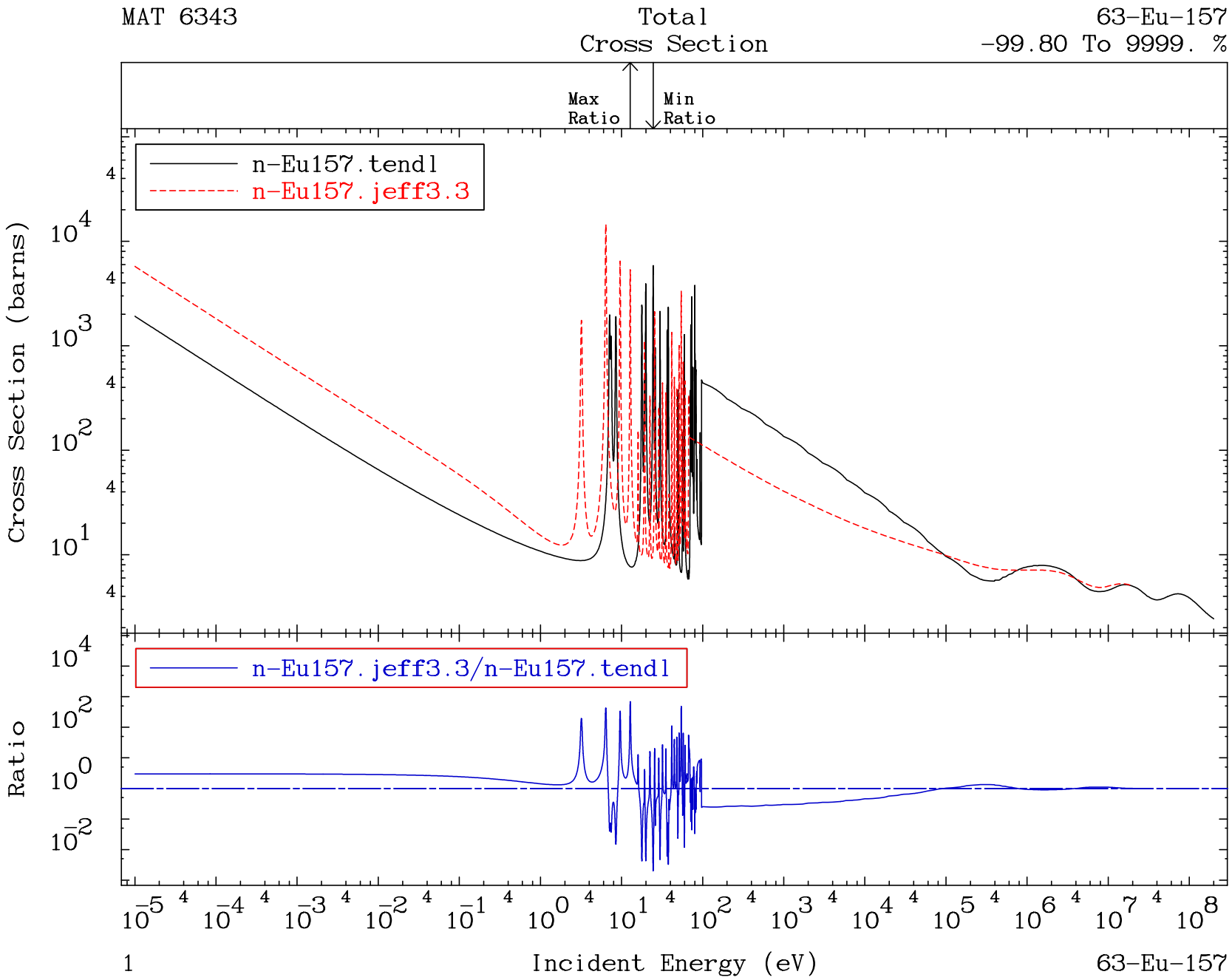
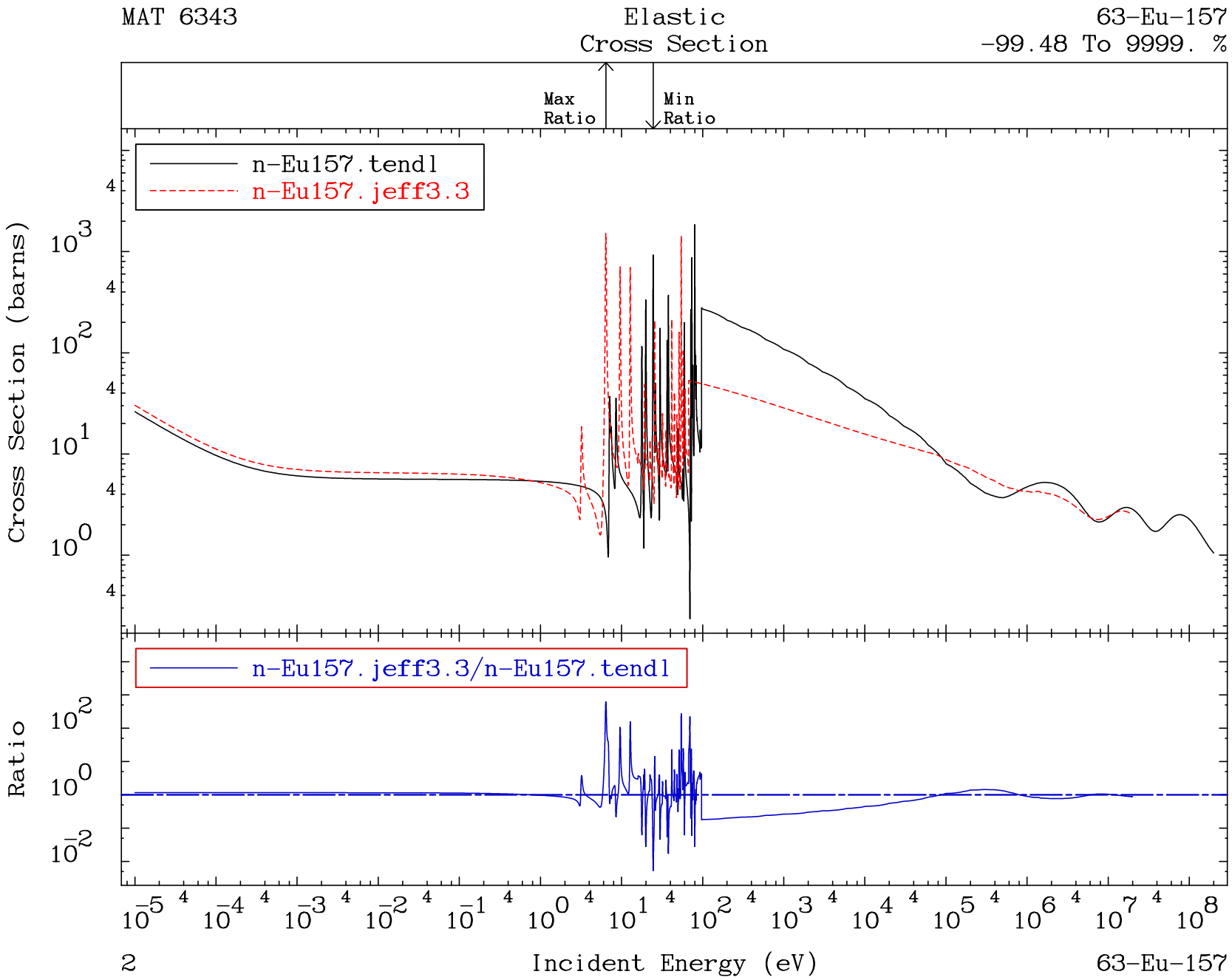
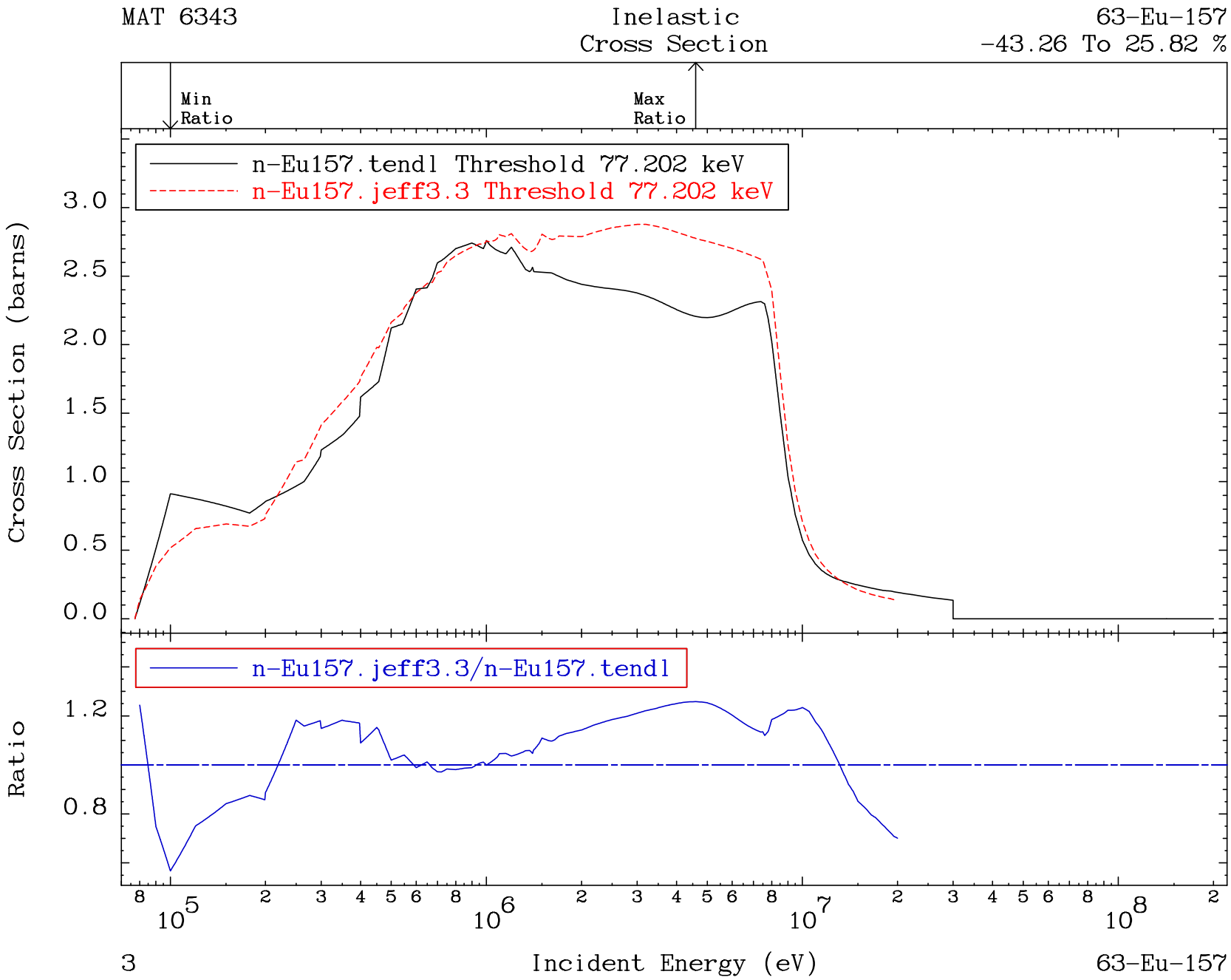
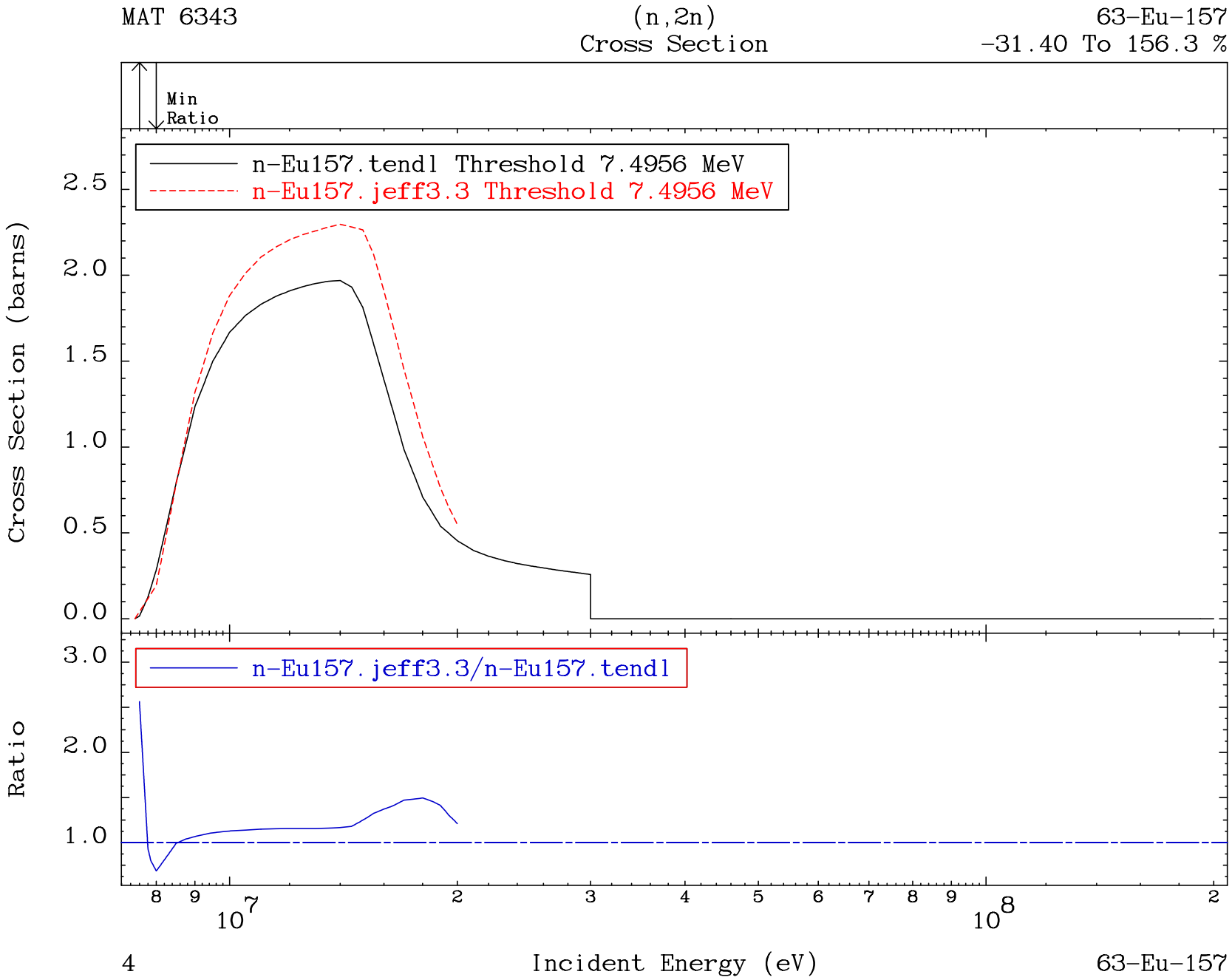
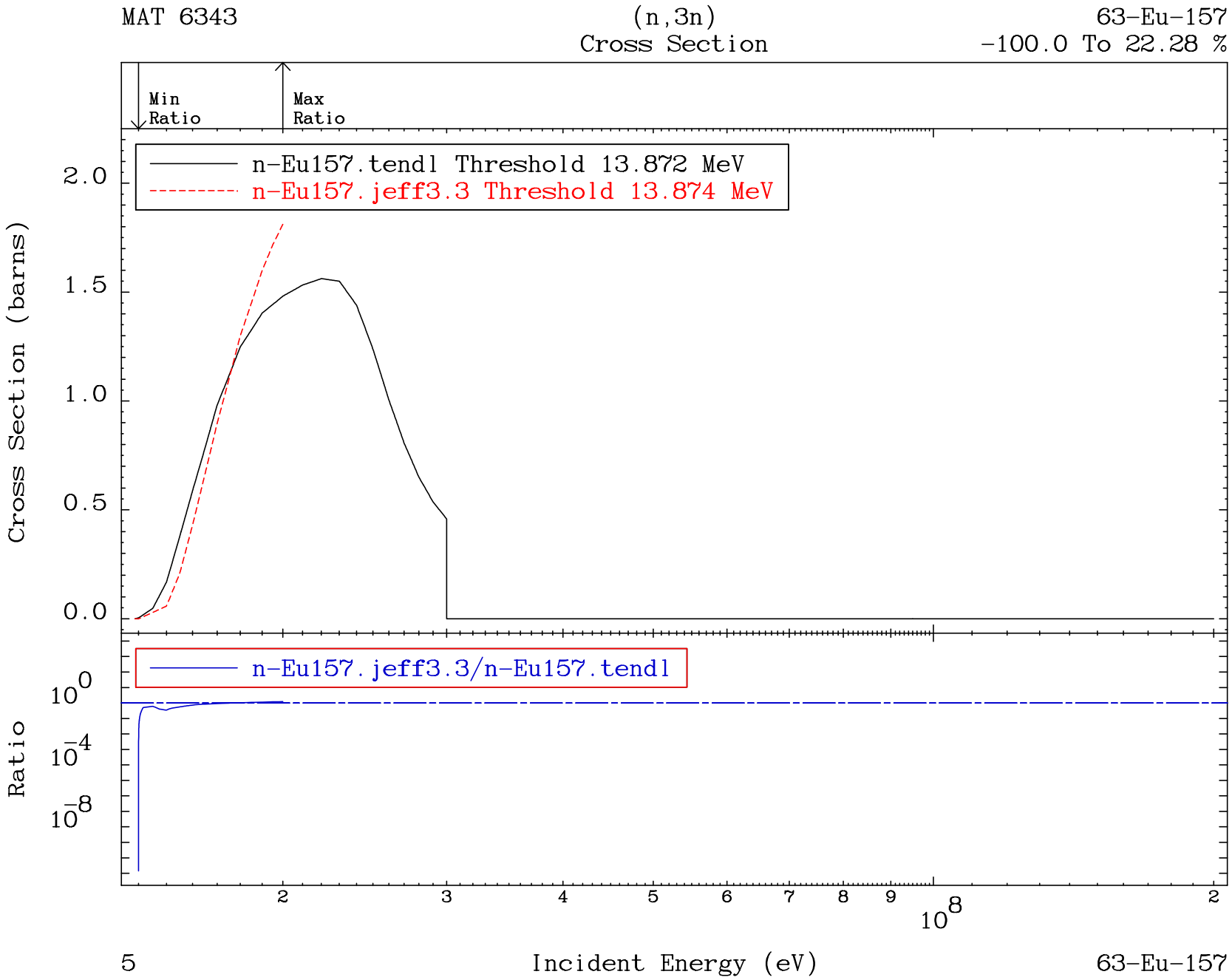
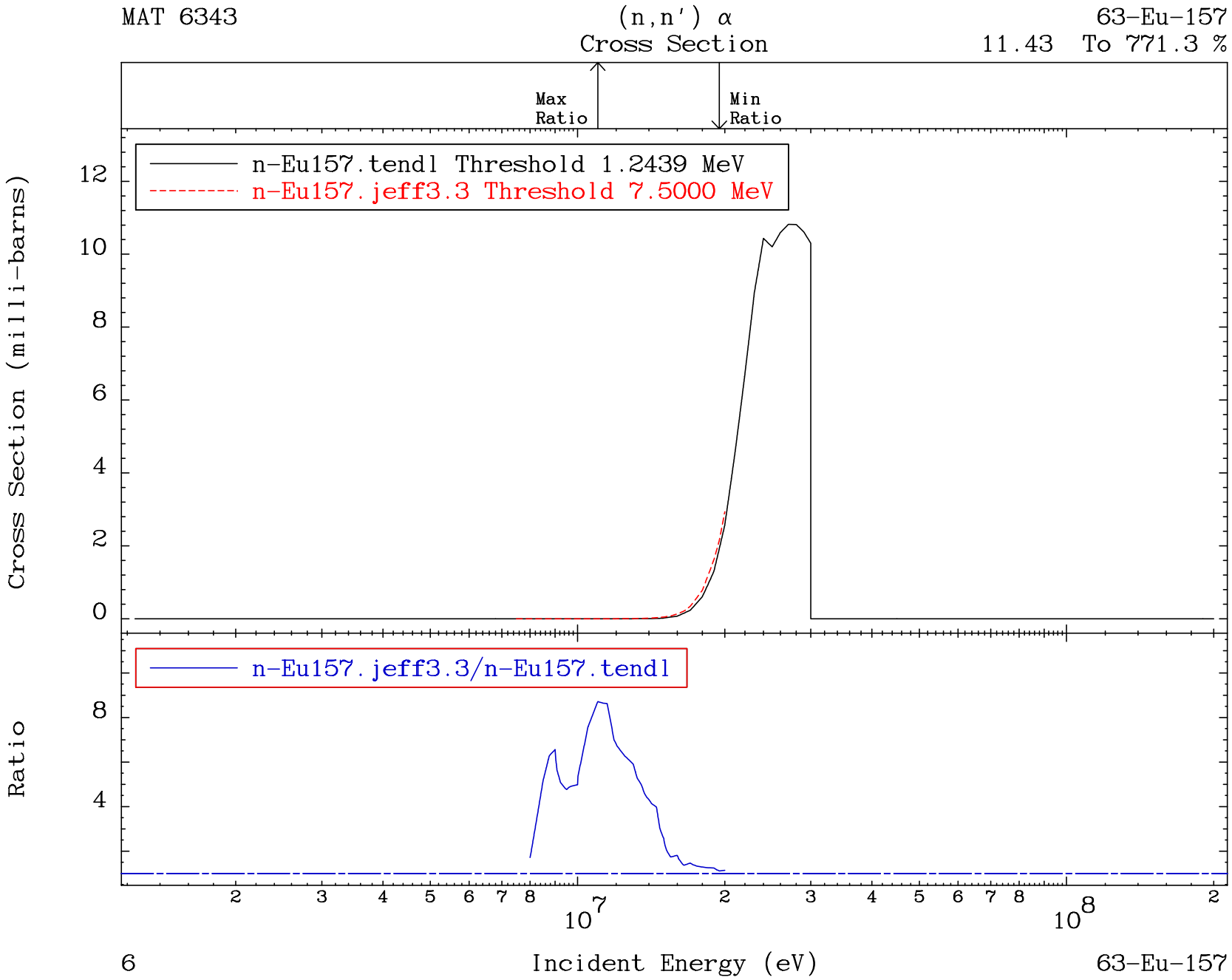

MAT 6343
Total
Cross Section
63-Eu-157
-99.80 To 9999. %
Max
Ratio
Min
Ratio
n-Eu157.tendl
n-Eu157.jeff3.3
Cross Section (barns)
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
Incident Energy (eV)
1
63-Eu-157

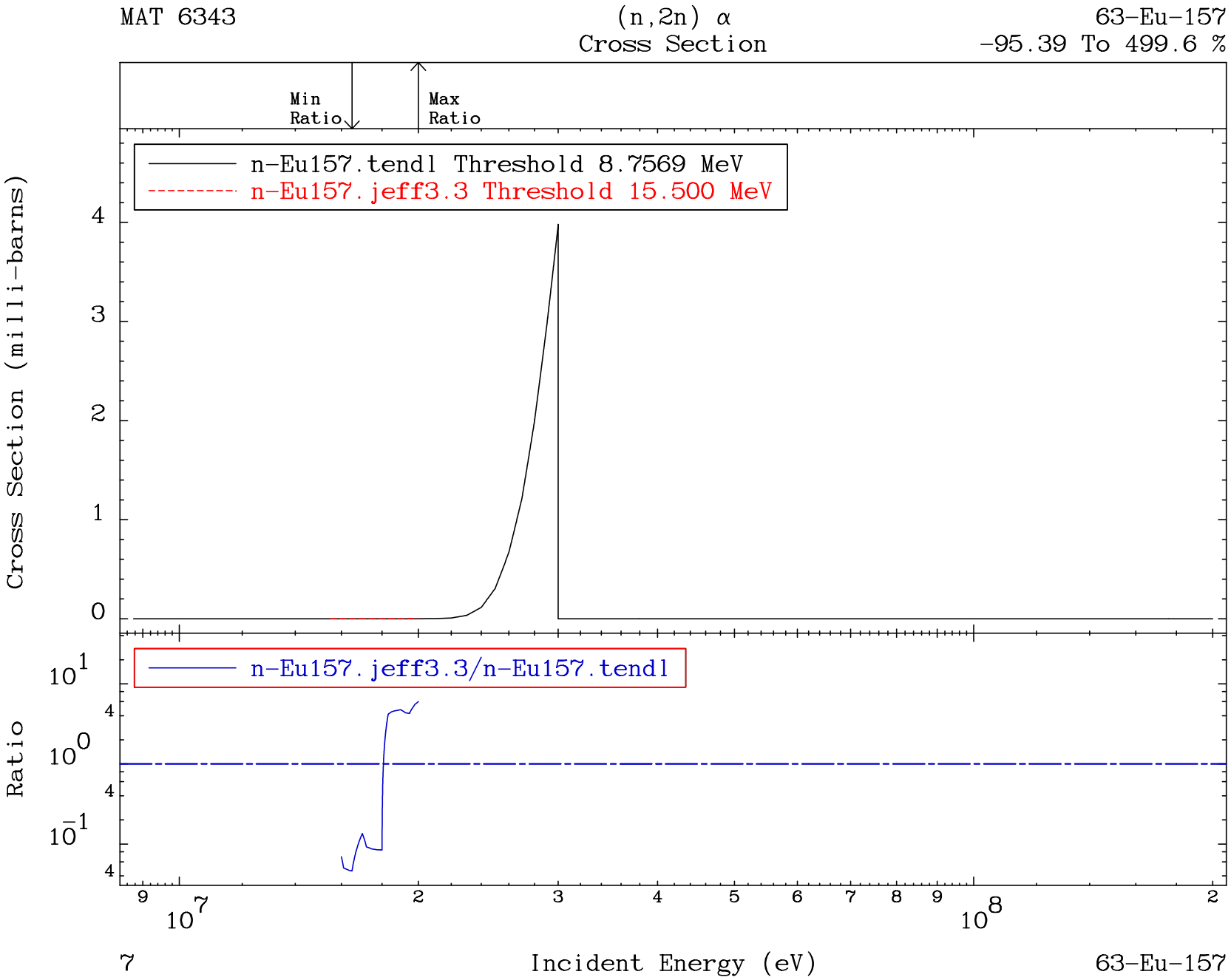

MAT 6343
Elastic
Cross Section
63-Eu-157
-99.48 To 9999. %
Max
Ratio
Min
Ratio
n-Eu157.tendl
n-Eu157.jeff3.3
Cross Section (barns)
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
Incident Energy (eV)
2
63-Eu-157

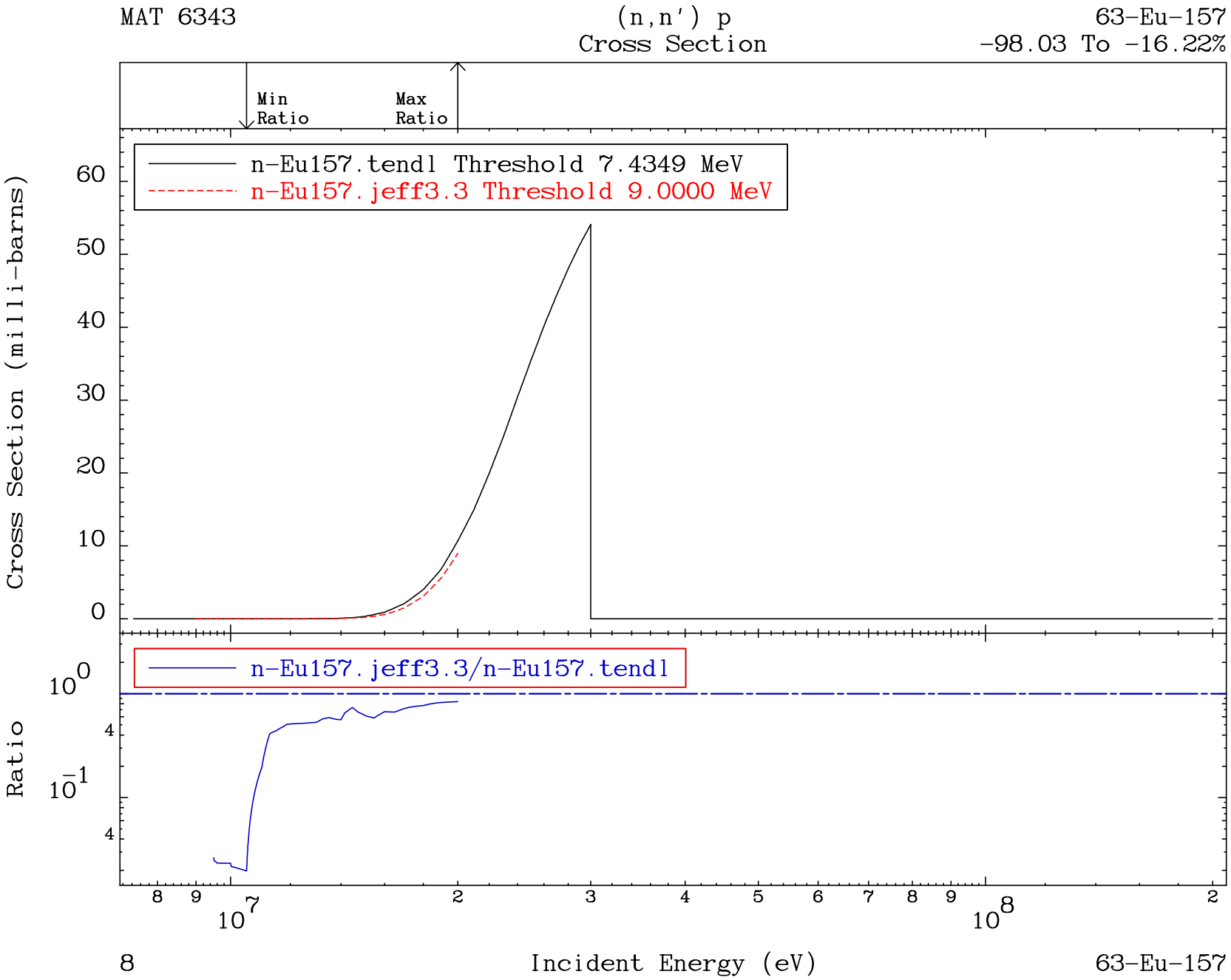

MAT 6343
Inelastic
Cross Section
63-Eu-157
-43.26 To 25.82 %
Min
Ratio
Max
Ratio
n-Eu157.tendl Threshold 77.202 keV
n-Eu157.jeff3.3 Threshold 77.202 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
1.2
0.8
8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
3
Incident Energy (eV)
63-Eu-157

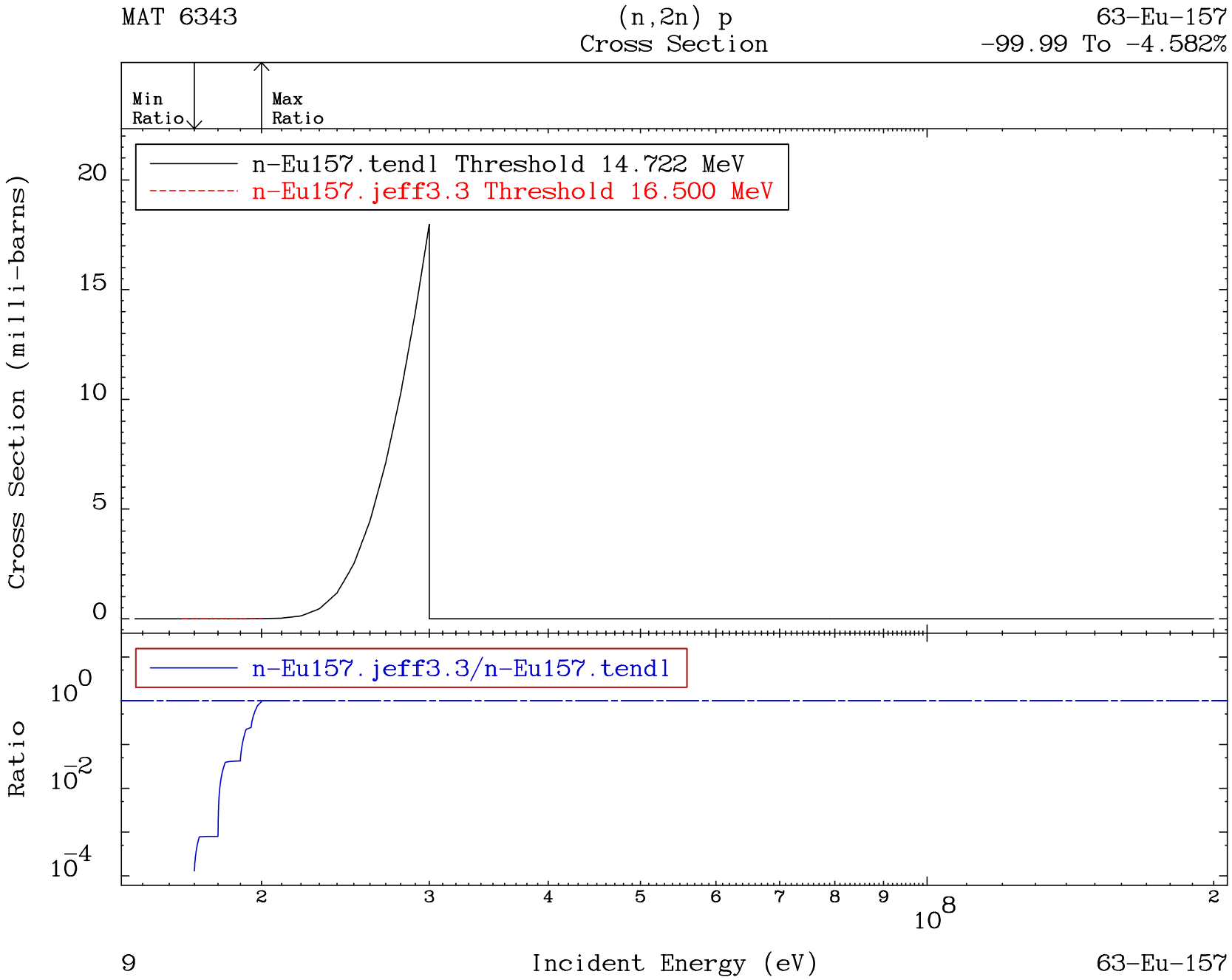

MAT 6343
(n,2n)
Cross Section
63-Eu-157
-31.40 To 156.3 %
Min
Ratio
n-Eu157.tendl Threshold 7.4956 MeV
n-Eu157.jeff3.3 Threshold 7.4956 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
3.0
2.0
1.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
63-Eu-157

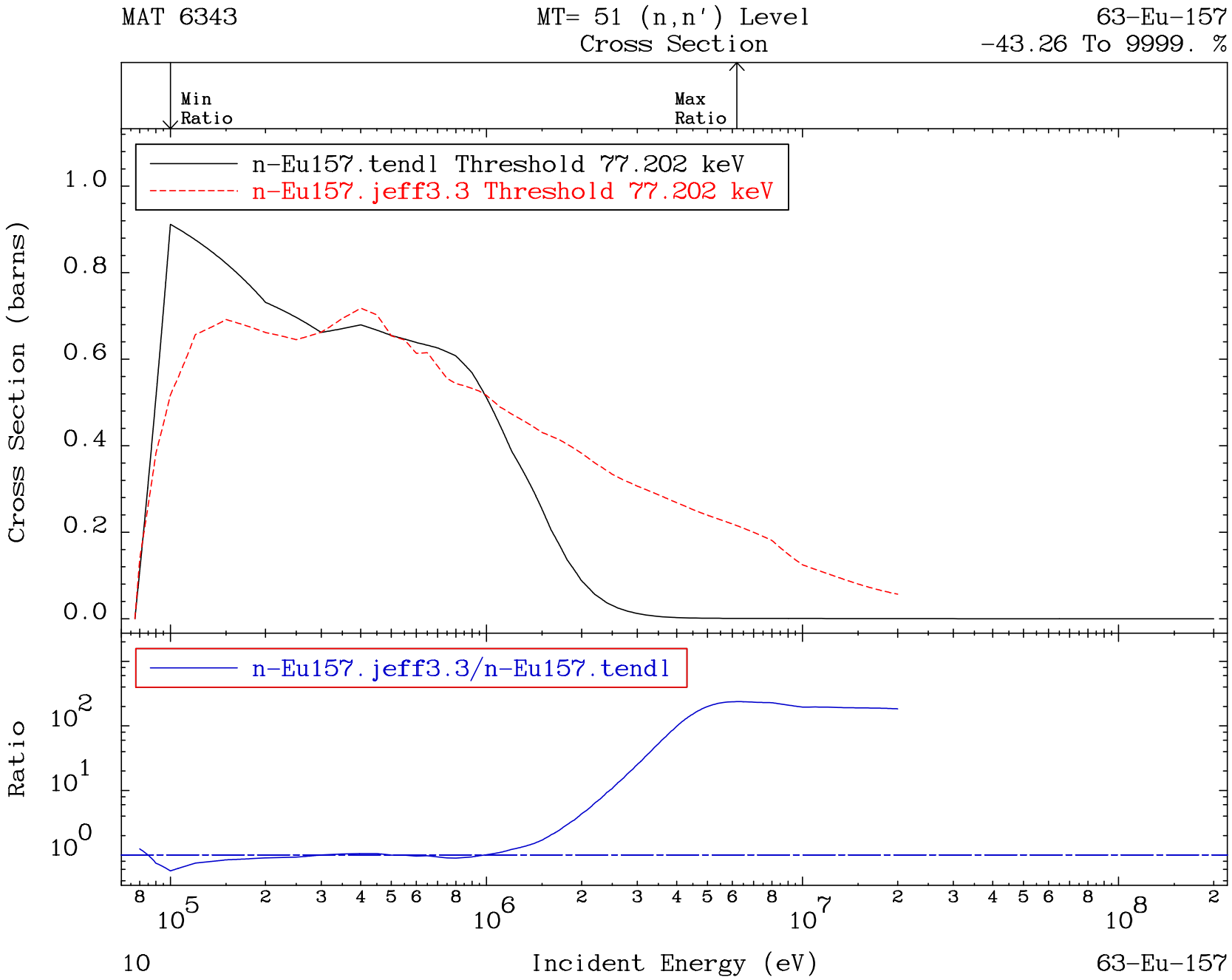

MAT 6343
(n,3n)
Cross Section
63-Eu-157
-100.0 To 22.28 %
Min Ratio
Max Ratio
n-Eu157.tendl Threshold 13.872 MeV
n-Eu157.jeff3.3 Threshold 13.874 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^0
10^-4
10^-8
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
63-Eu-157

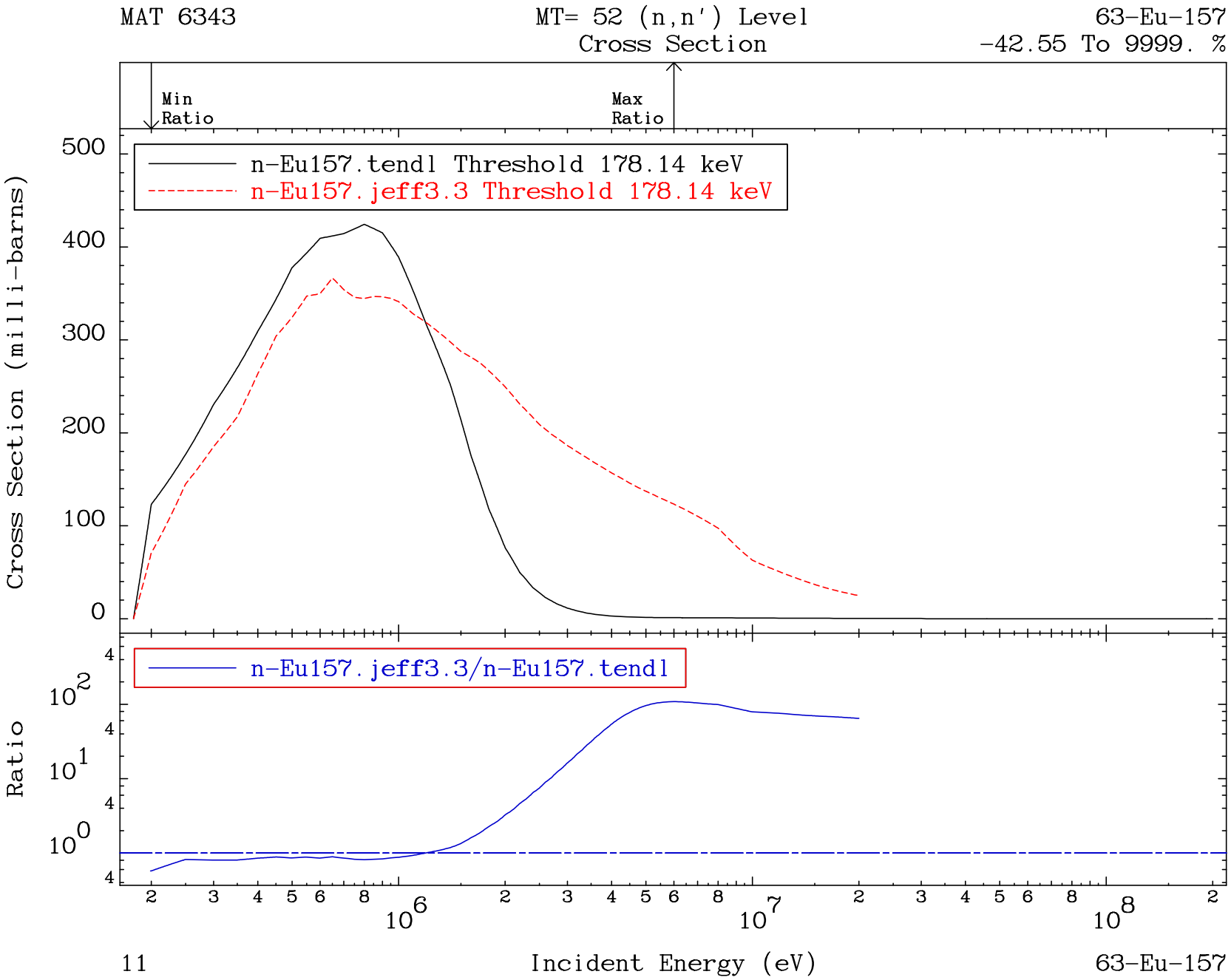

MAT 6343
(n,n') α
Cross Section
63-Eu-157
11.43 To 771.3 %
Max Ratio
Min Ratio
n-Eu157.tendl Threshold 1.2439 MeV
n-Eu157.jeff3.3 Threshold 7.5000 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
4
8
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
6
Incident Energy (eV)
63-Eu-157

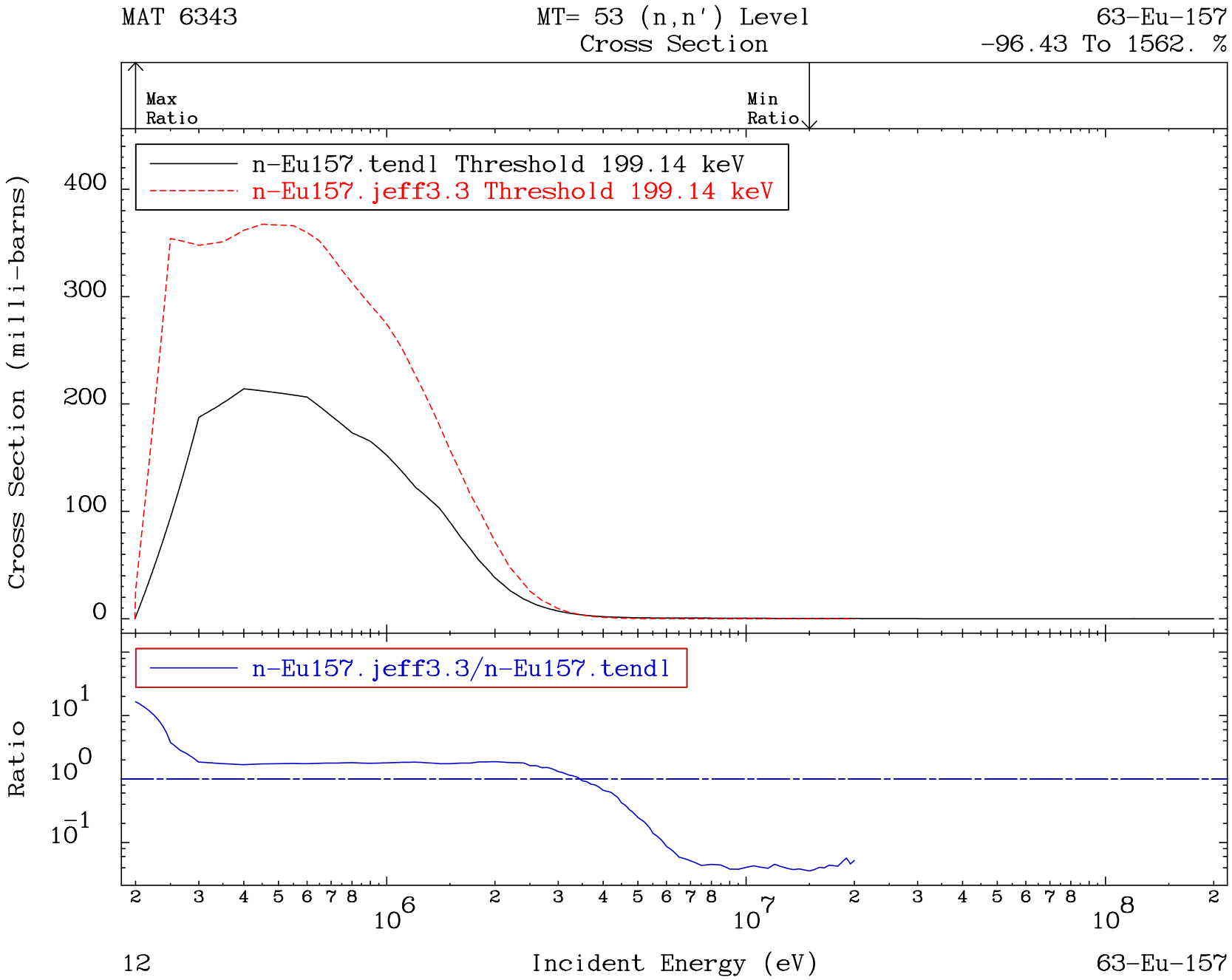

MAT 6343
(n,2n) α
Cross Section
63-Eu-157
-95.39 To 499.6 %
Min Ratio
Max Ratio
n-Eu157.tendl Threshold 8.7569 MeV
n-Eu157.jeff3.3 Threshold 15.500 MeV
Cross Section (milli-barns)
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
Incident Energy (eV)
63-Eu-157

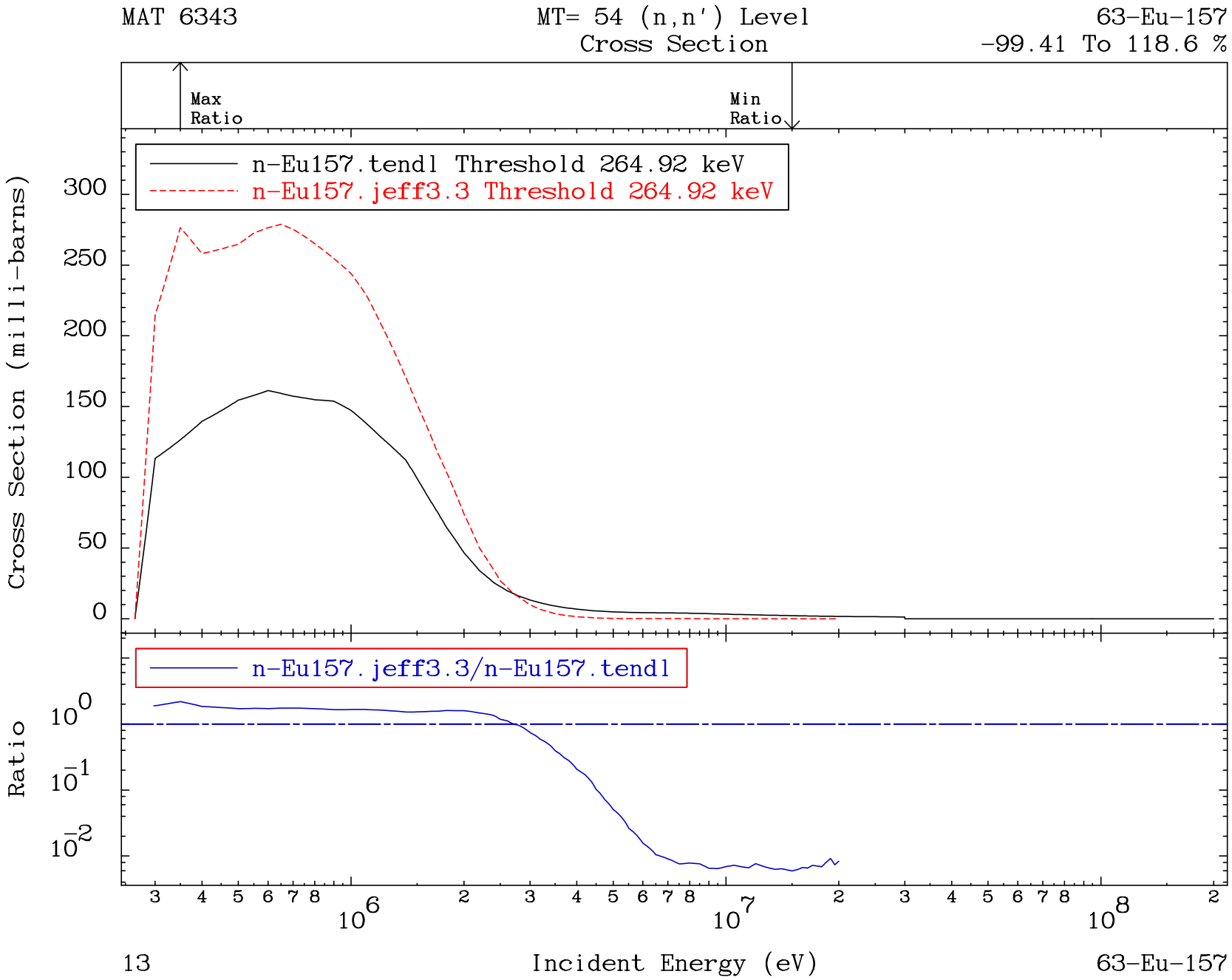

MAT 6343
(n,n') p
Cross Section
63-Eu-157
-98.03 To -16.22%
Min Ratio
Max Ratio
n-Eu157.tendl Threshold 7.4349 MeV
n-Eu157.jeff3.3 Threshold 9.0000 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^0
4
10^-1
4
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
8
63-Eu-157

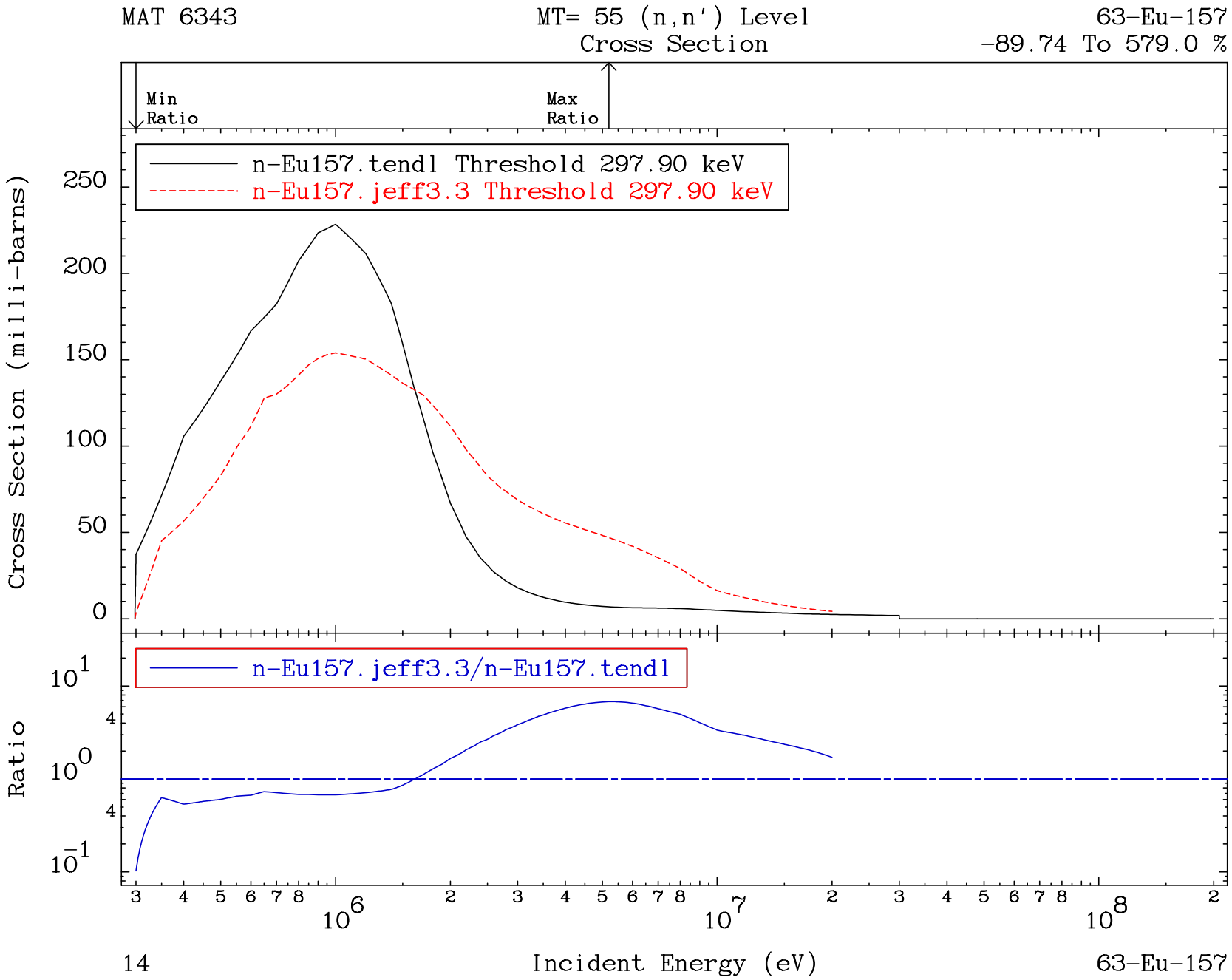

MAT 6343
(n,2n) p
Cross Section
63-Eu-157
-99.99 To -4.582%
Min Ratio
Max Ratio
n-Eu157.tendl Threshold 14.722 MeV
n-Eu157.jeff3.3 Threshold 16.500 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^0
10^-2
10^-4
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
63-Eu-157

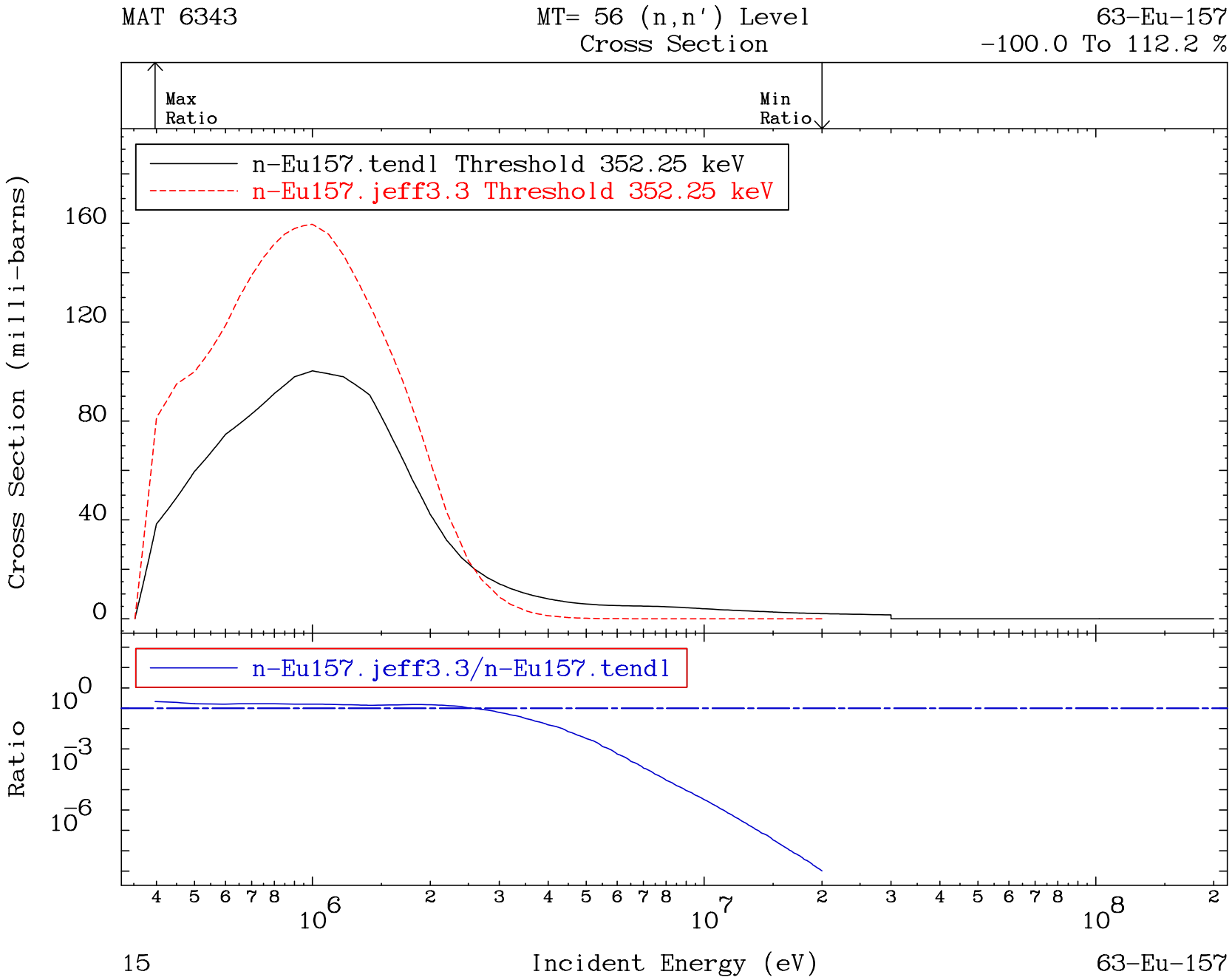

MAT 6343
MT= 51 (n,n') Level
Cross Section
63-Eu-157
-43.26 To 9999. %
Min Ratio
Max Ratio
n-Eu157.tendl Threshold 77.202 keV
n-Eu157.jeff3.3 Threshold 77.202 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^2
10^1
10^0
8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
10
Incident Energy (eV)
63-Eu-157

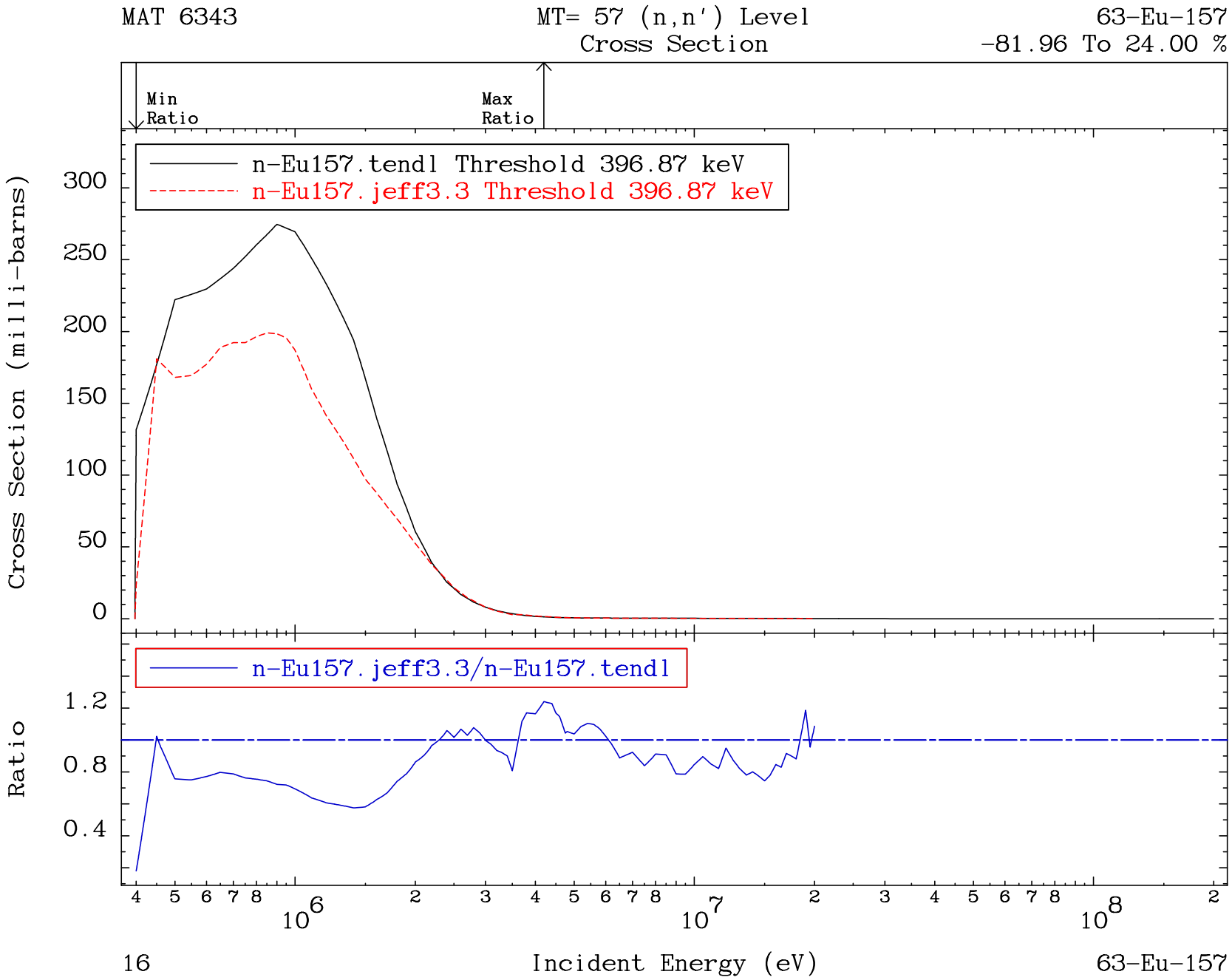

MAT 6343
MT= 52 (n,n') Level
Cross Section
63-Eu-157
-42.55 To 9999. %
Min
Ratio
Max
Ratio
n-Eu157.tendl Threshold 178.14 keV
n-Eu157.jeff3.3 Threshold 178.14 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^2
10^1
10^0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
63-Eu-157

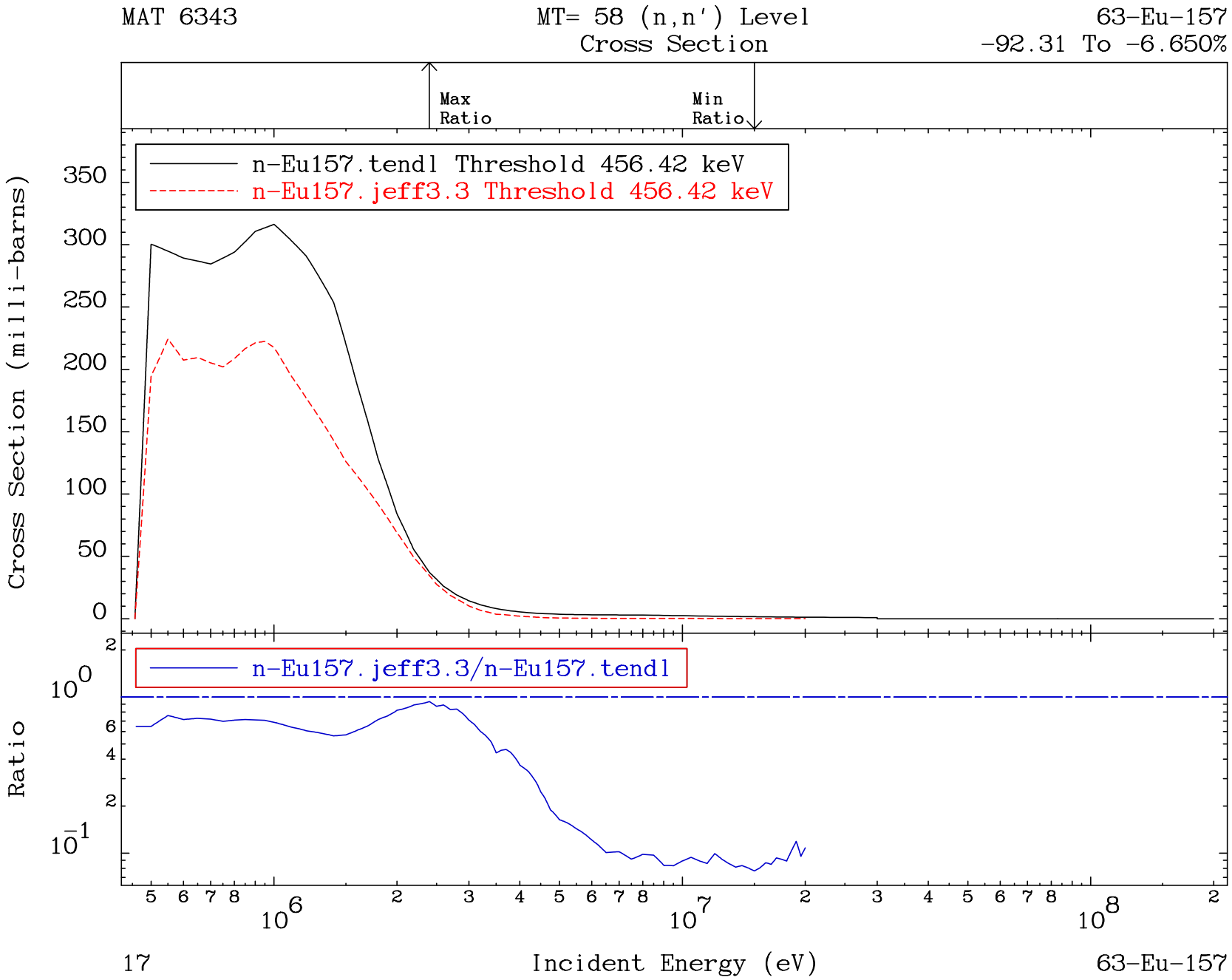

MAT 6343
MT= 53 (n,n') Level
Cross Section
63-Eu-157
-96.43 To 1562. %
Max
Ratio
Min
Ratio
n-Eu157.tendl Threshold 199.14 keV
n-Eu157.jeff3.3 Threshold 199.14 keV
Cross Section (milli-barns)
400
300
200
100
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^1
10^0
10^-1
2 3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
12
Incident Energy (eV)
63-Eu-157

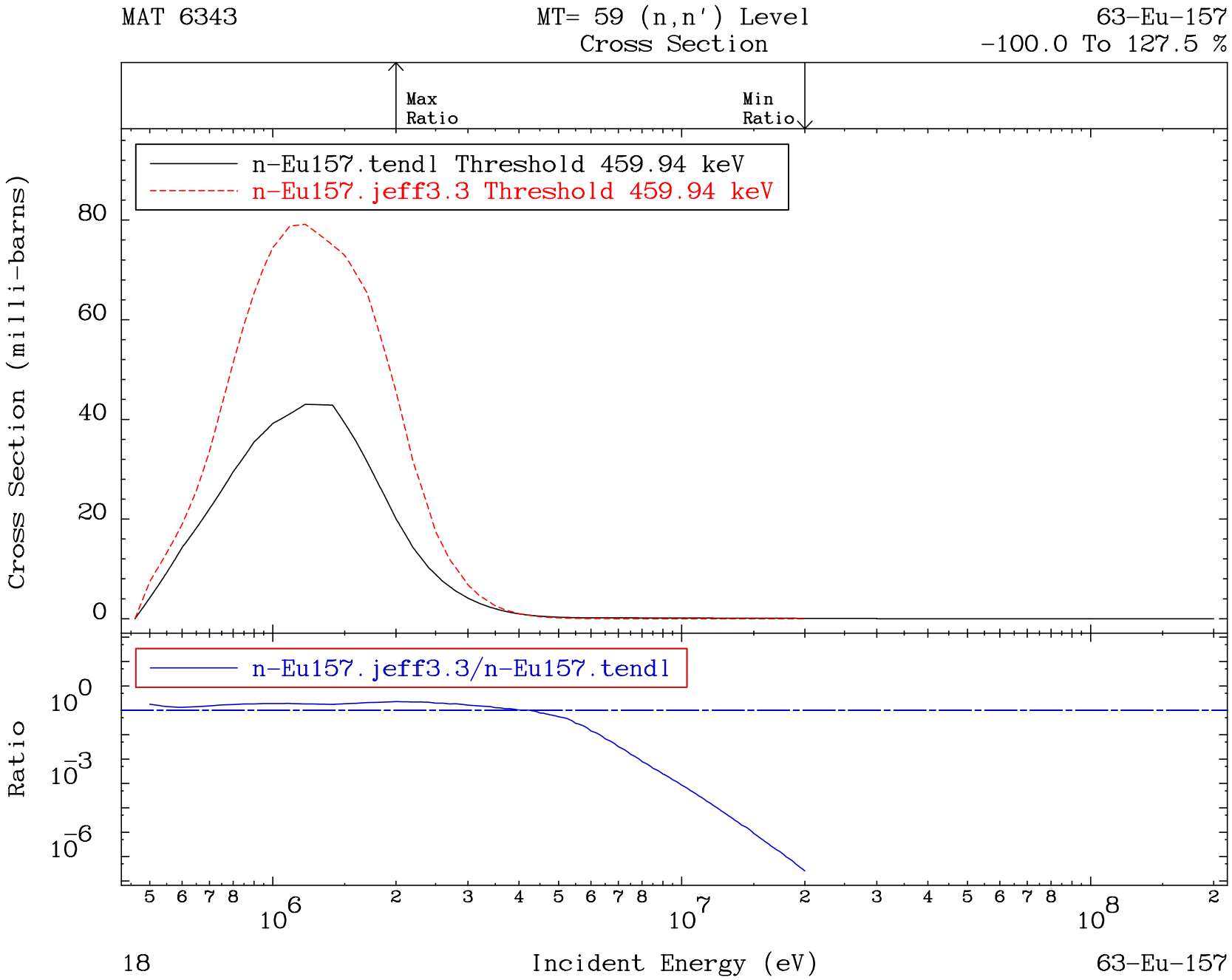

MAT 6343
MT= 54 (n,n') Level
Cross Section
63-Eu-157
-99.41 To 118.6 %
Max
Ratio
Min
Ratio
n-Eu157.tendl Threshold 264.92 keV
n-Eu157.jeff3.3 Threshold 264.92 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^0
10^-1
10^-2
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
63-Eu-157

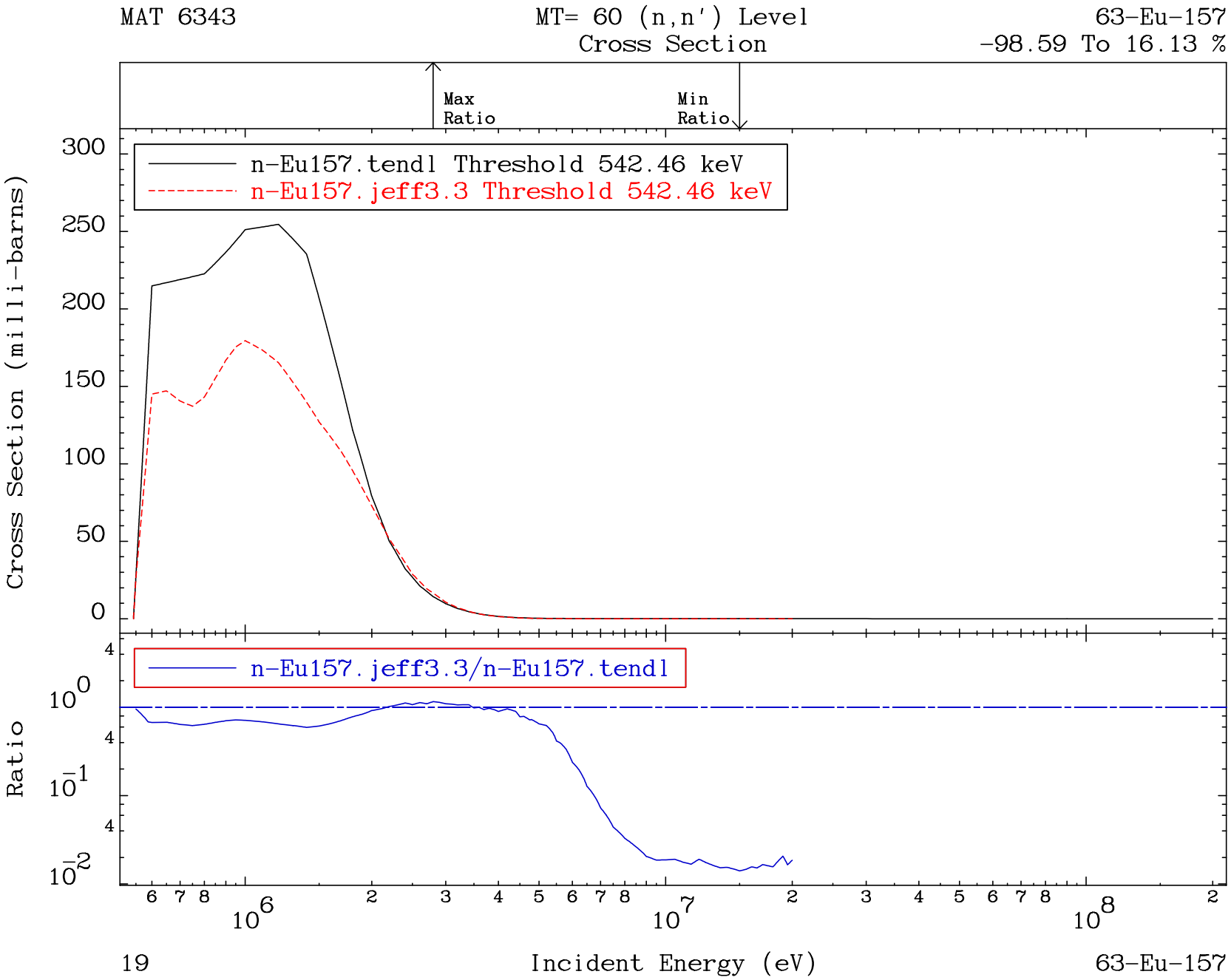

MAT 6343
MT= 55 (n,n') Level
Cross Section
63-Eu-157
-89.74 To 579.0 %
Min
Ratio
Max
Ratio
n-Eu157.tendl Threshold 297.90 keV
n-Eu157.jeff3.3 Threshold 297.90 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^{1}
10^{0}
10^{-1}
4
4
3 4 5 6 7 8 10^{6} 2 3 4 5 6 7 8 10^{7} 2 3 4 5 6 7 8 10^{8} 2
14
Incident Energy (eV)
63-Eu-157

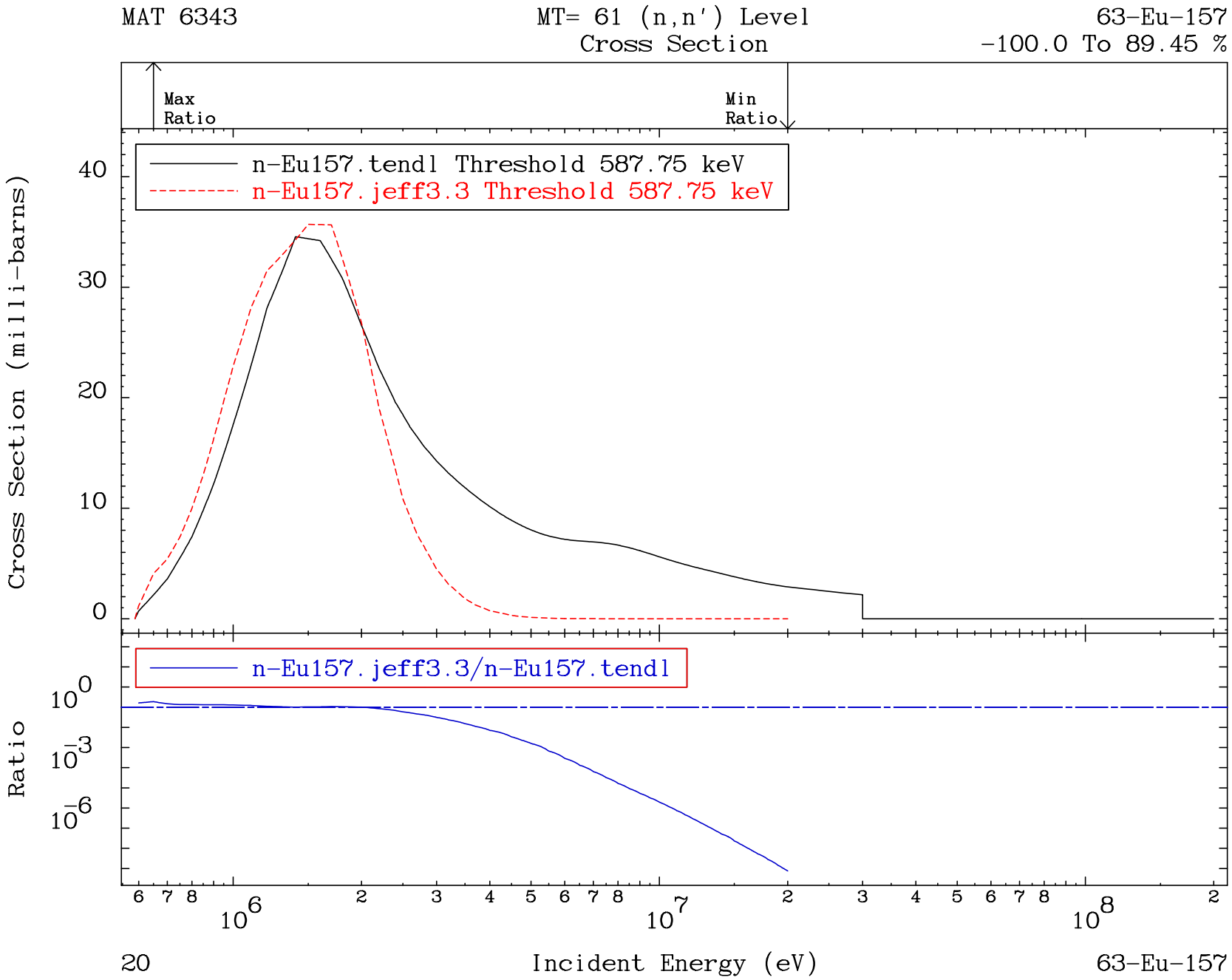

MAT 6343
MT= 56 (n,n') Level
Cross Section
63-Eu-157
-100.0 To 112.2 %
Max
Ratio
Min
Ratio
n-Eu157.tendl Threshold 352.25 keV
n-Eu157.jeff3.3 Threshold 352.25 keV
Cross Section (milli-barns)
160
120
80
40
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^0
10^-3
10^-6
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
63-Eu-157

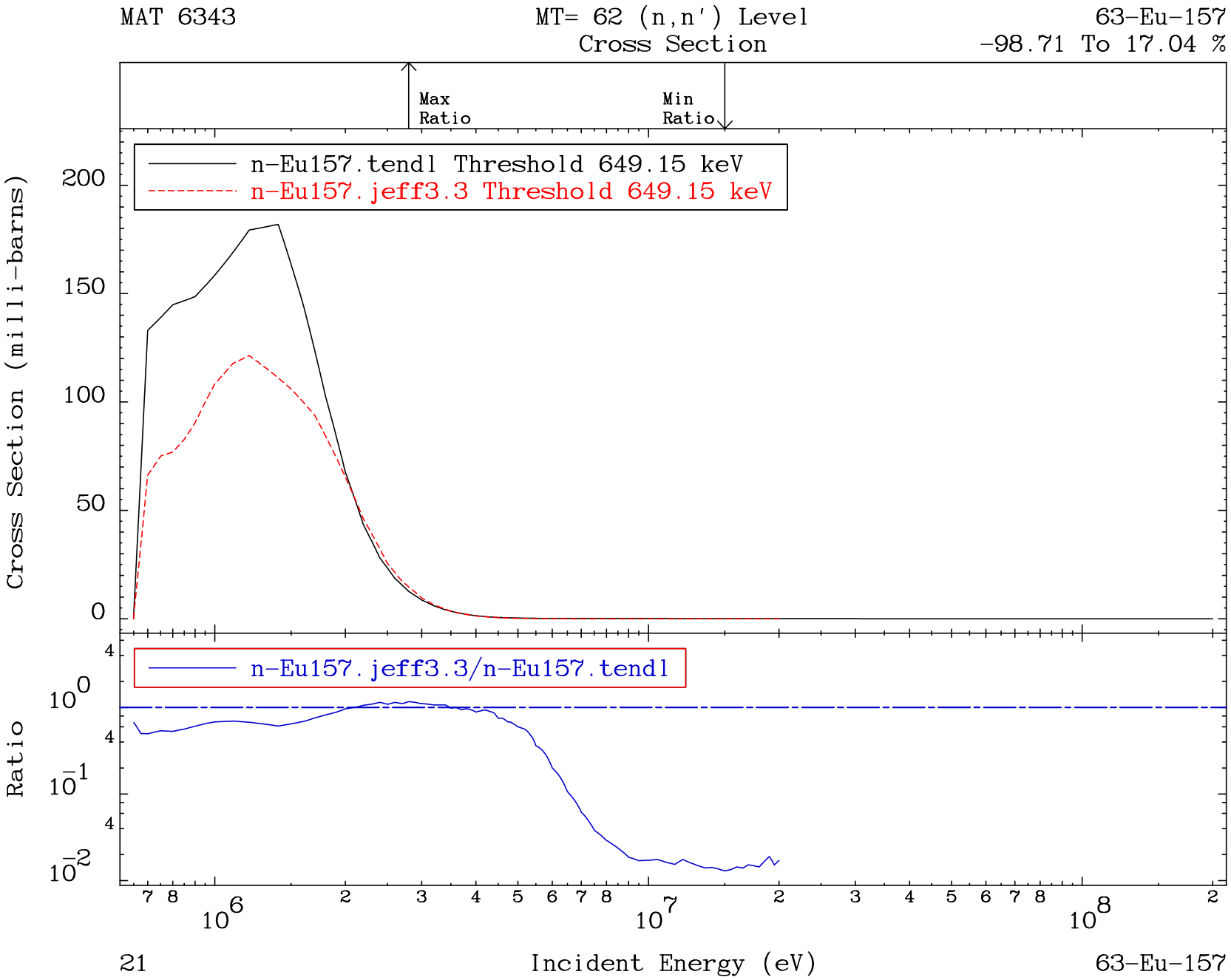

MAT 6343
MT= 57 (n,n') Level
Cross Section
63-Eu-157
-81.96 To 24.00 %
Min
Ratio
Max
Ratio
n-Eu157.tendl Threshold 396.87 keV
n-Eu157.jeff3.3 Threshold 396.87 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
1.2
0.8
0.4
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
63-Eu-157

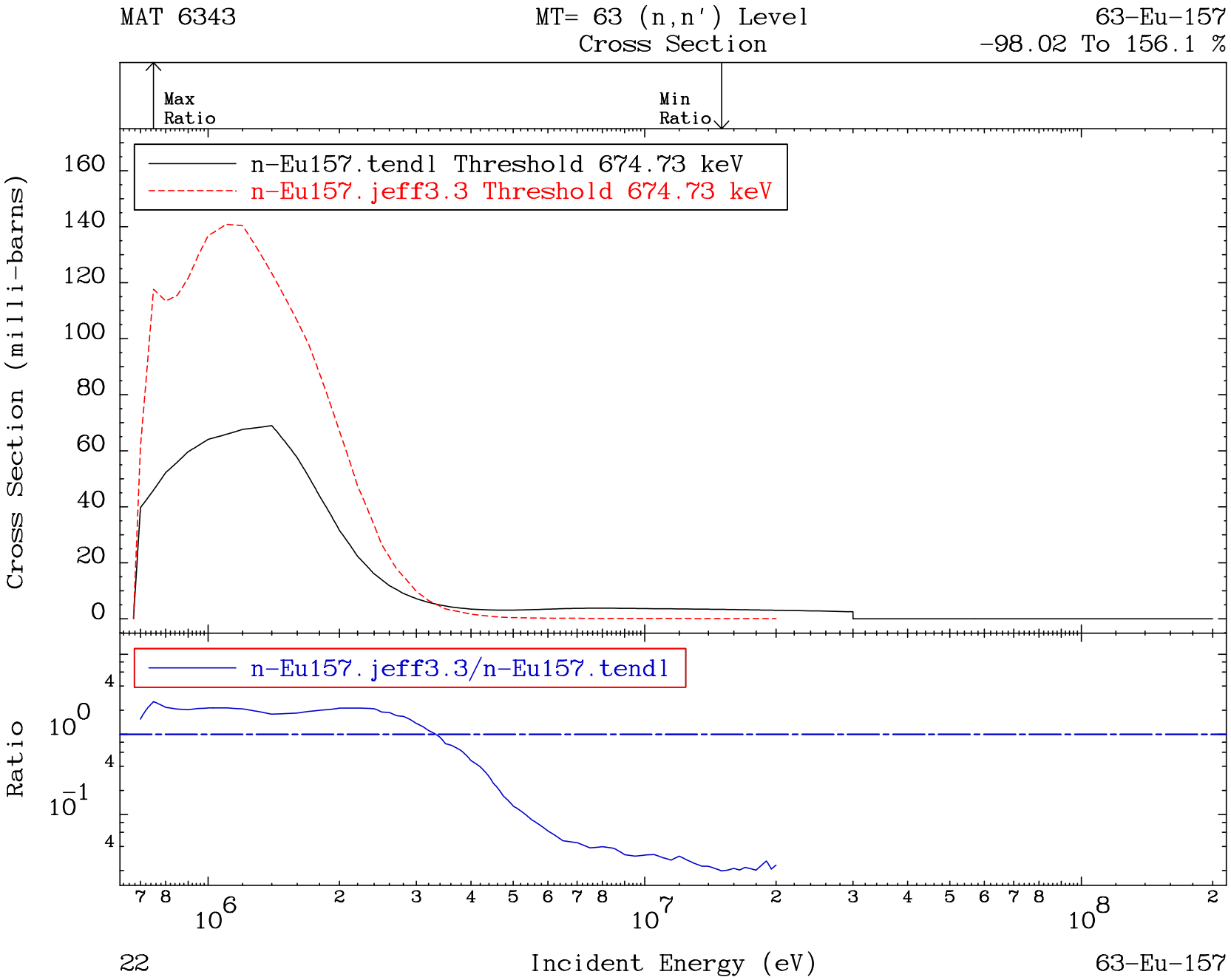

MAT 6343
MT= 58 (n,n') Level
Cross Section
63-Eu-157
-92.31 To -6.650%
Max
Ratio
Min
Ratio
n-Eu157.tendl Threshold 456.42 keV
n-Eu157.jeff3.3 Threshold 456.42 keV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
2
10^0
6
4
2
10^-1
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
63-Eu-157

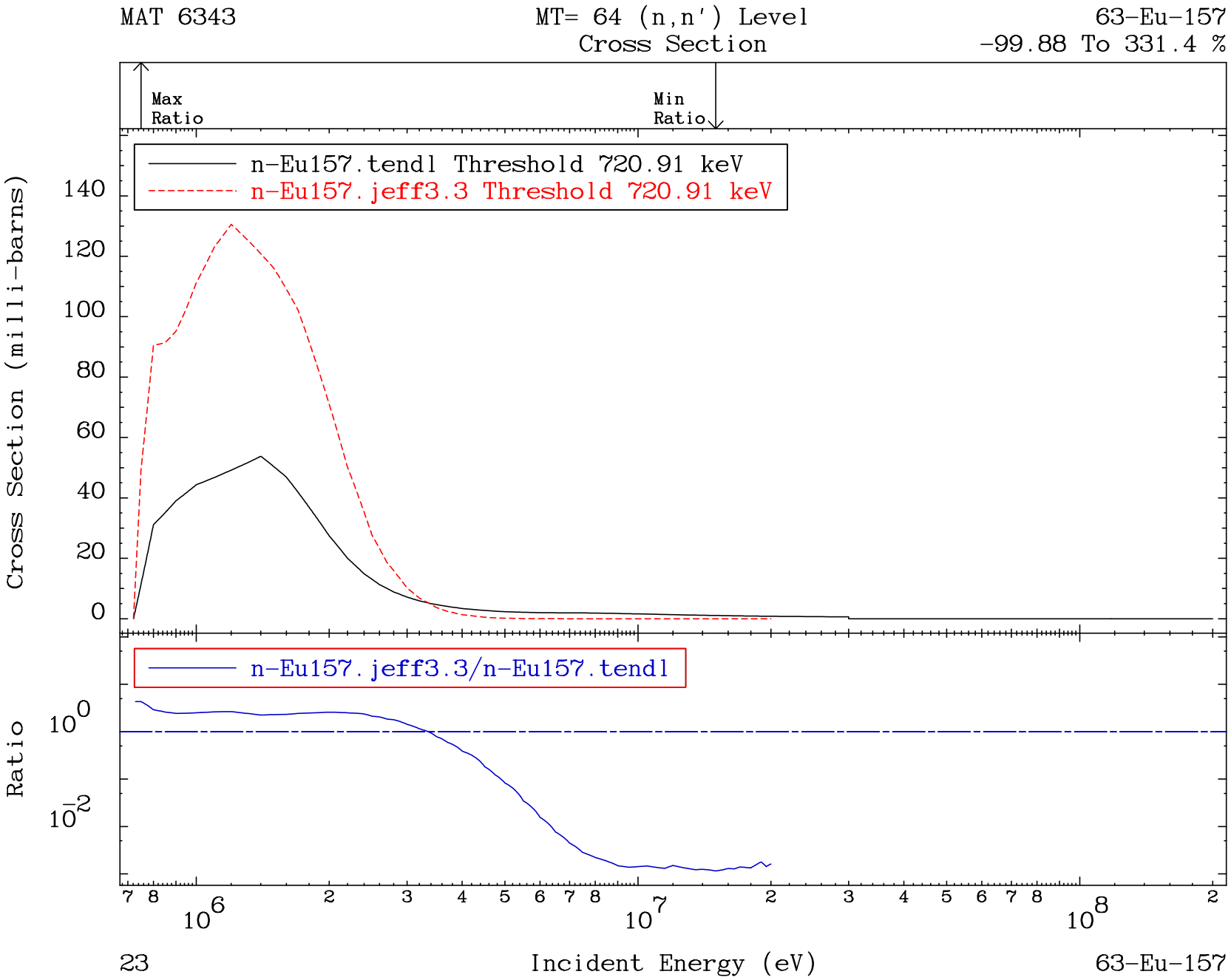

MAT 6343
MT= 59 (n,n') Level
Cross Section
63-Eu-157
-100.0 To 127.5 %
Max
Ratio
Min
Ratio
n-Eu157.tendl Threshold 459.94 keV
n-Eu157.jeff3.3 Threshold 459.94 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^0
10^-3
10^-6
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
63-Eu-157

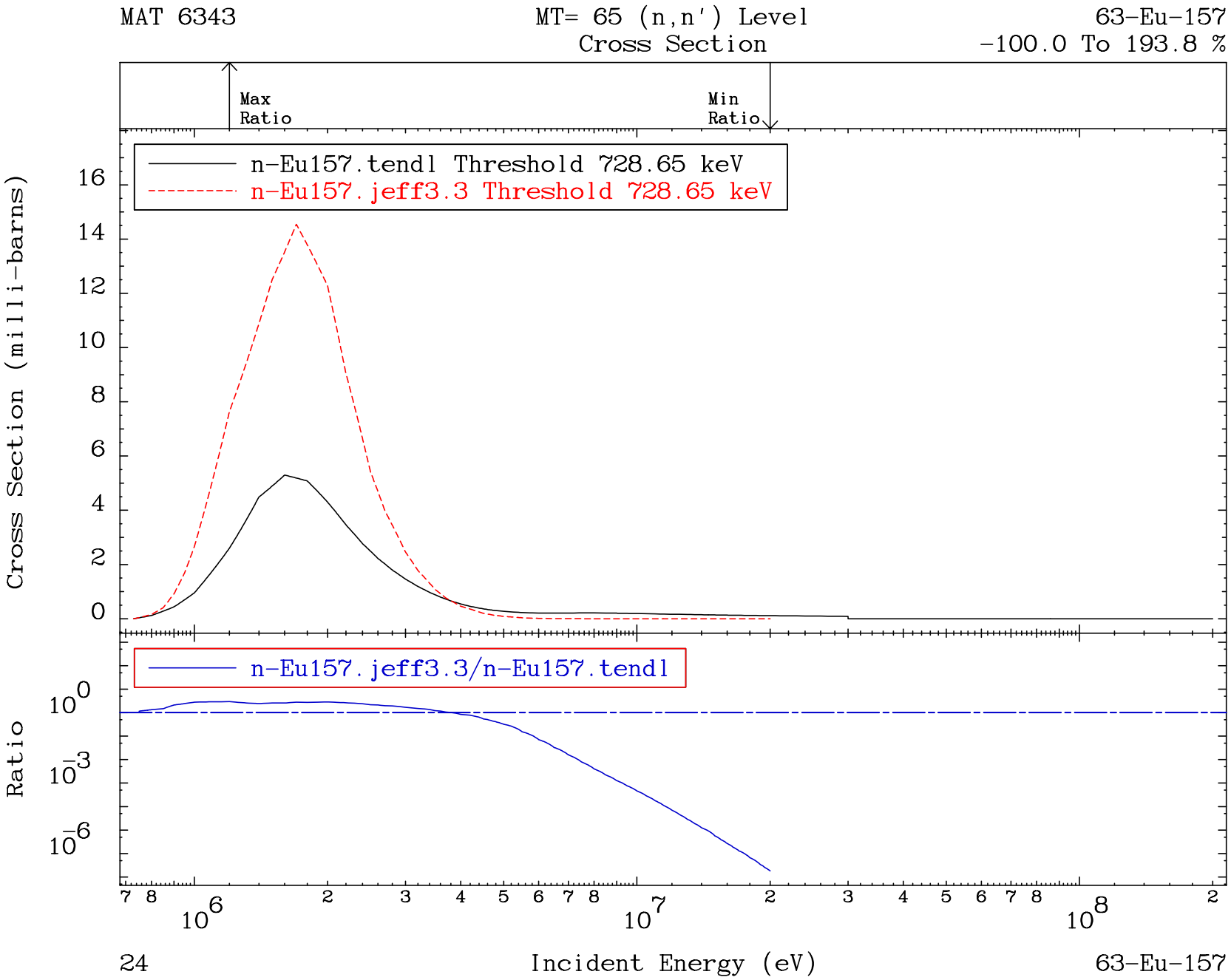

MAT 6343
MT= 60 (n,n') Level
Cross Section
63-Eu-157
-98.59 To 16.13 %
Max Ratio
Min Ratio
n-Eu157.tendl Threshold 542.46 keV
n-Eu157.jeff3.3 Threshold 542.46 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^0
10^-1
10^-2
10^6
10^7
10^8
Incident Energy (eV)
19
63-Eu-157

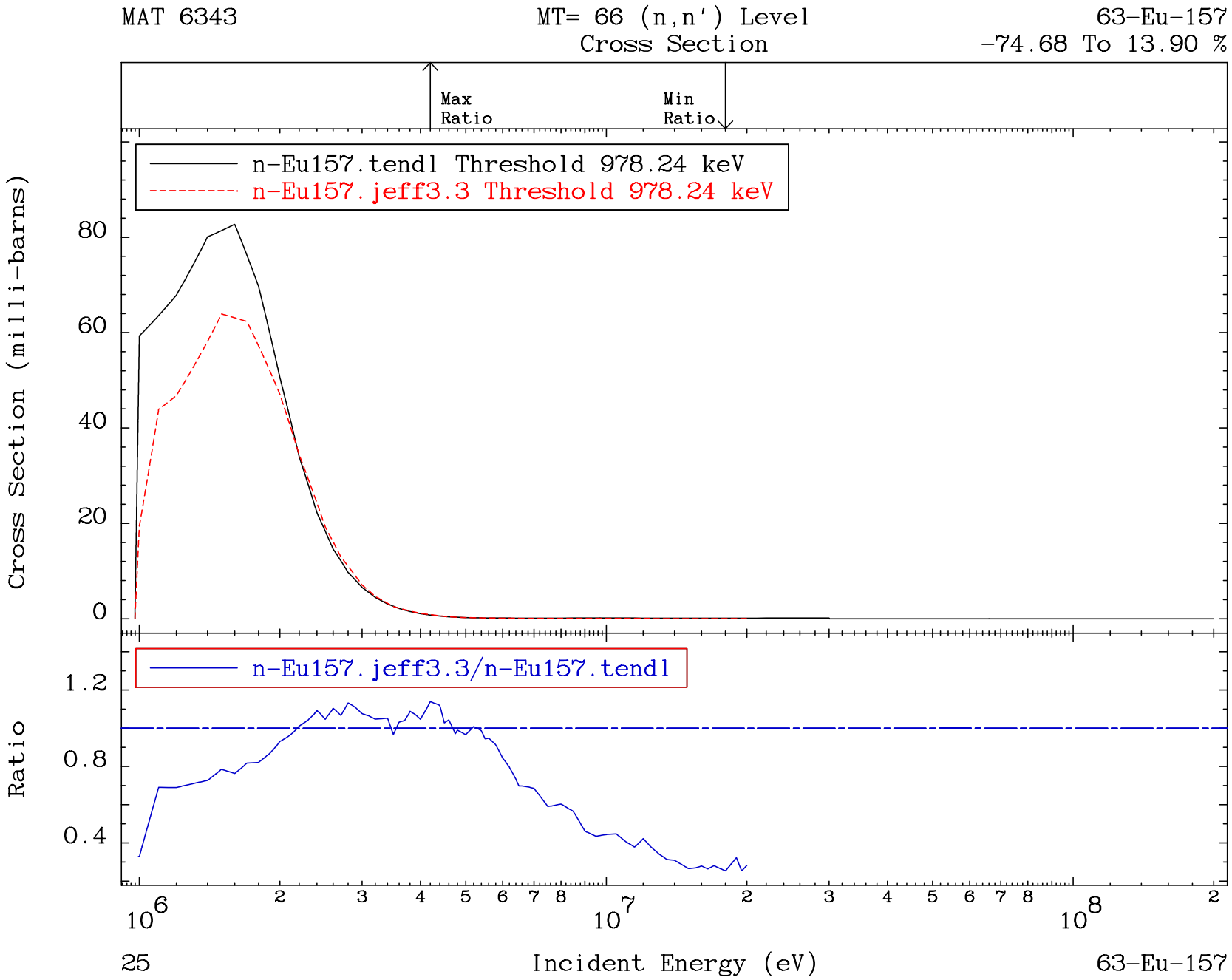

MAT 6343
MT= 61 (n,n') Level
Cross Section
63-Eu-157
-100.0 To 89.45 %
Max
Ratio
Min
Ratio
n-Eu157.tendl Threshold 587.75 keV
n-Eu157.jeff3.3 Threshold 587.75 keV
Cross Section (milli-barns)
40
30
20
10
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^0
10^-3
10^-6
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
63-Eu-157

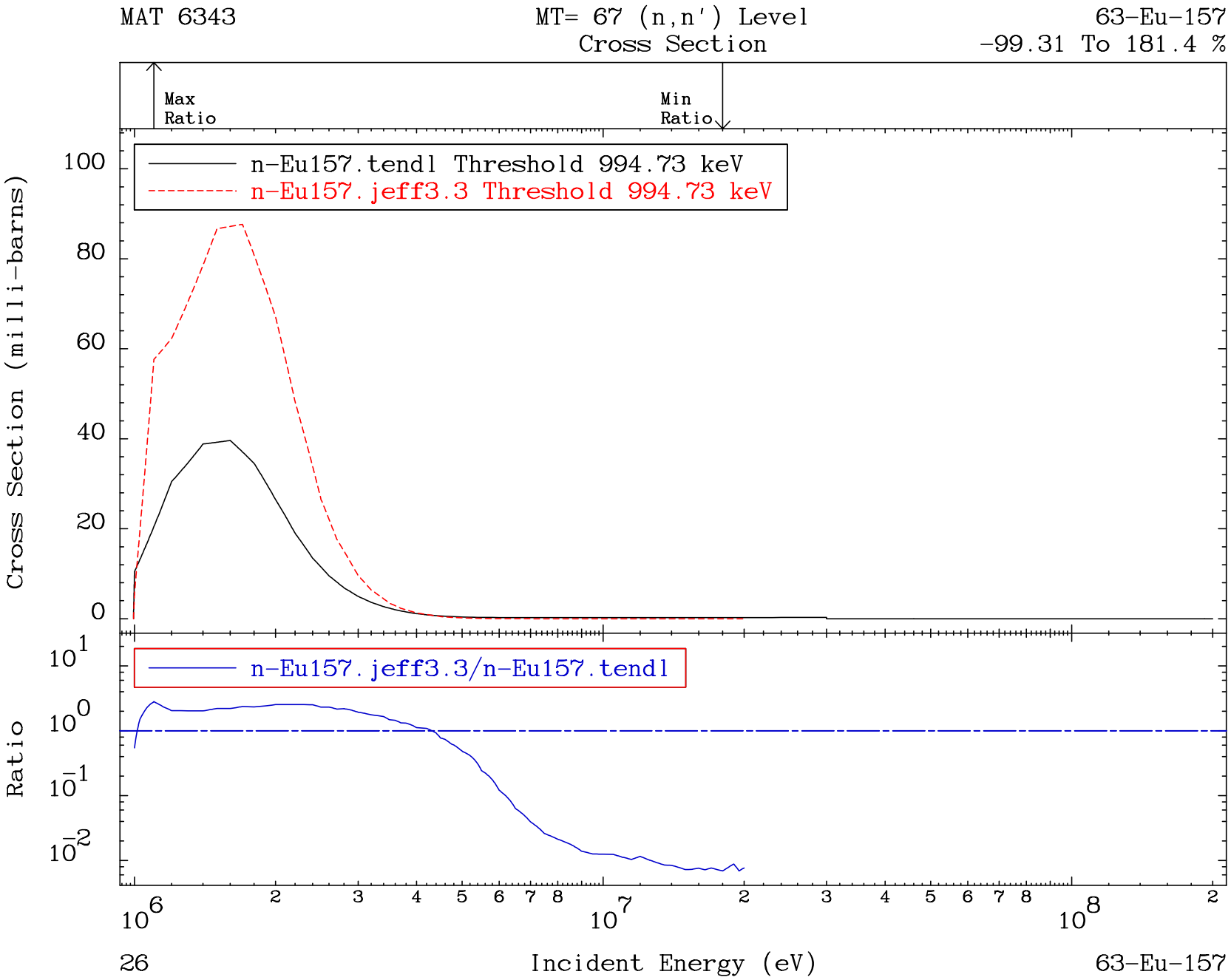

MAT 6343
MT= 62 (n,n') Level
Cross Section
63-Eu-157
-98.71 To 17.04 %
Max
Ratio
Min
Ratio
n-Eu157.tendl Threshold 649.15 keV
n-Eu157.jeff3.3 Threshold 649.15 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^0
10^-1
10^-2
10^6
10^7
10^8
Incident Energy (eV)
21
63-Eu-157

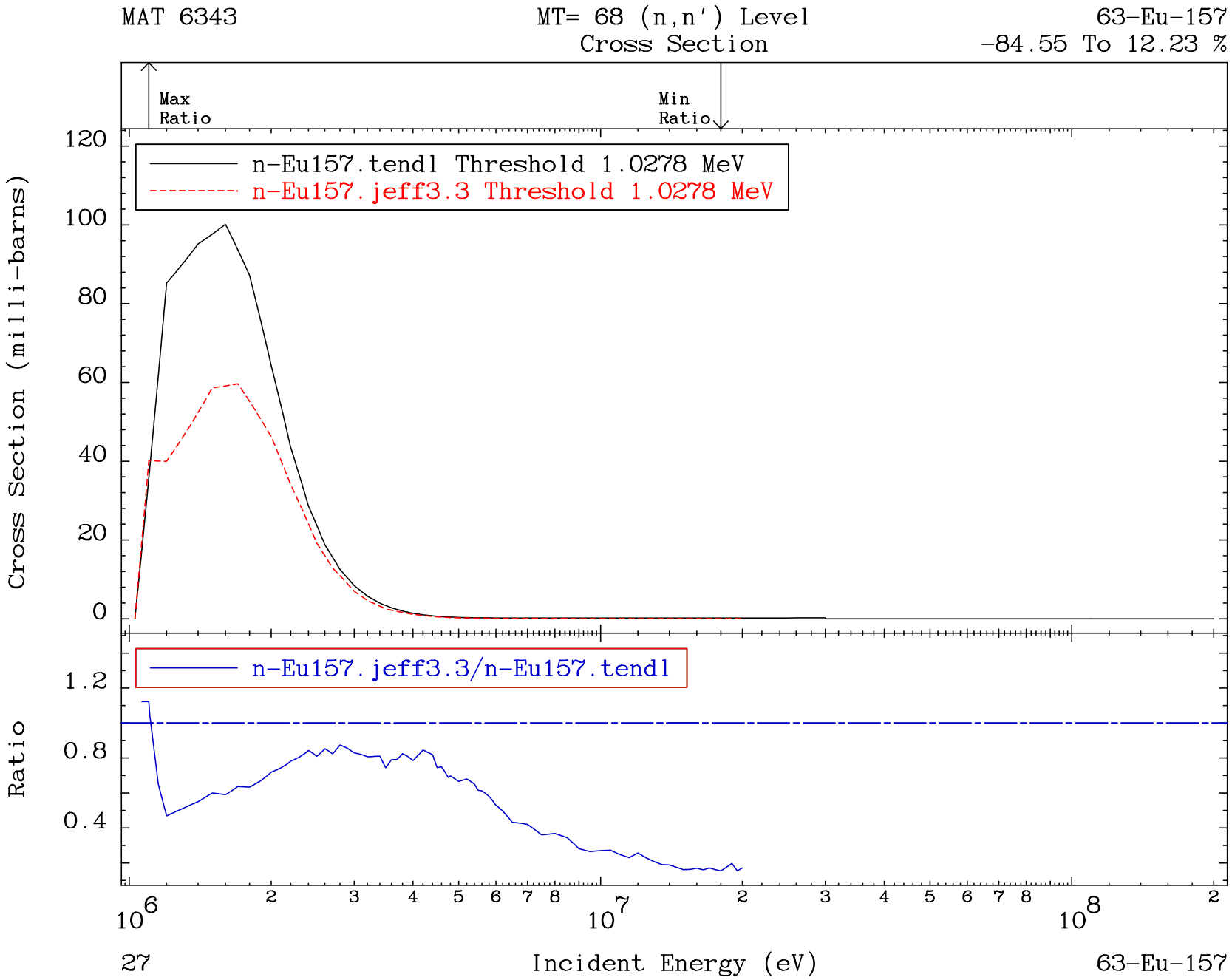

MAT 6343
MT= 63 (n,n') Level
Cross Section
63-Eu-157
-98.02 To 156.1 %
Max
Ratio
Min
Ratio
n-Eu157.tendl Threshold 674.73 keV
n-Eu157.jeff3.3 Threshold 674.73 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
4
10^{0}
4
10^{-1}
4
7 8
10^{6}
2 3 4 5 6 7 8
10^{7}
2 3 4 5 6 7 8
10^{8}
2
22
Incident Energy (eV)
63-Eu-157

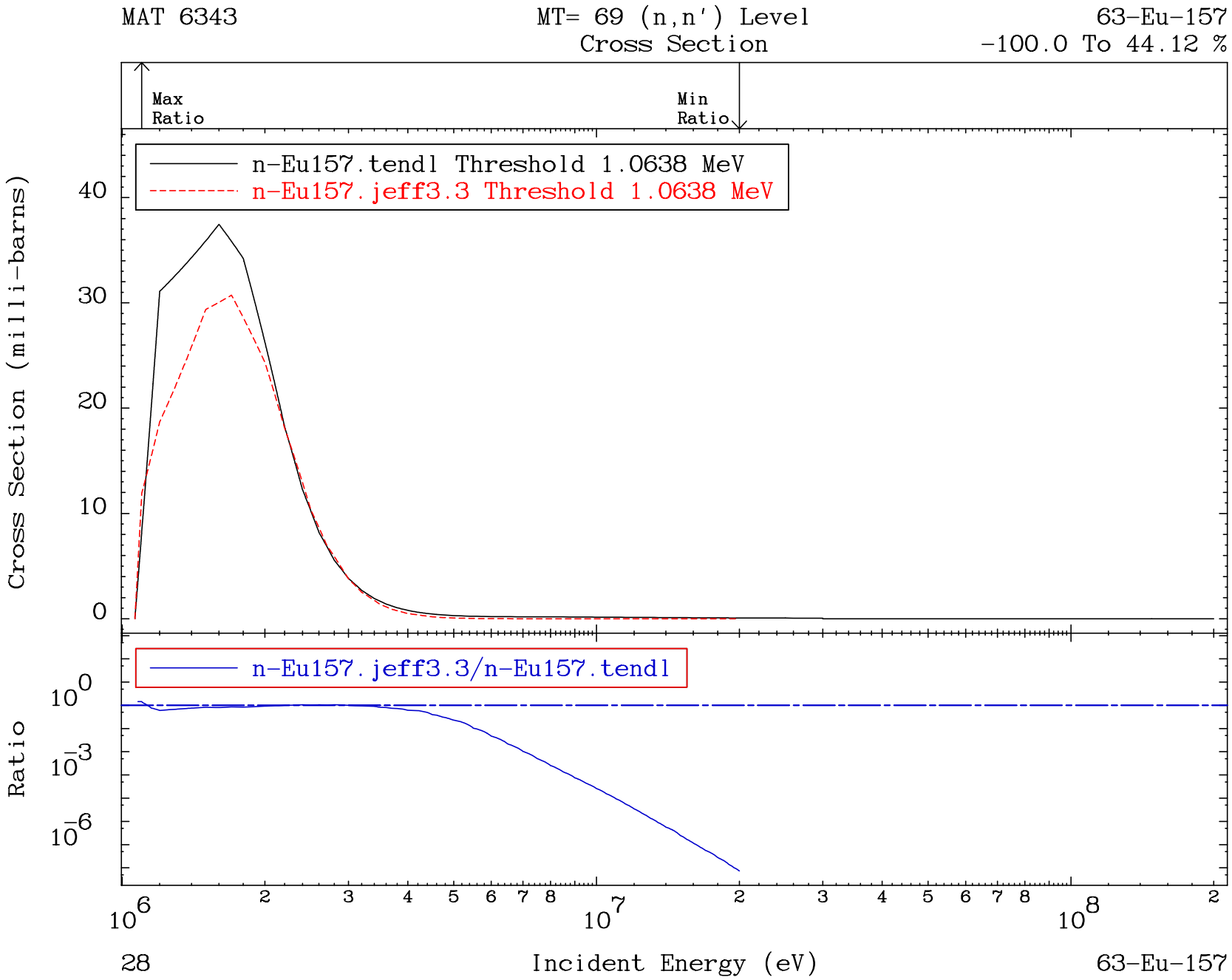

MAT 6343
MT= 64 (n,n') Level
Cross Section
63-Eu-157
-99.88 To 331.4 %
Max Ratio
Min Ratio
n-Eu157.tendl Threshold 720.91 keV
n-Eu157.jeff3.3 Threshold 720.91 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^0
10^-2
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
63-Eu-157

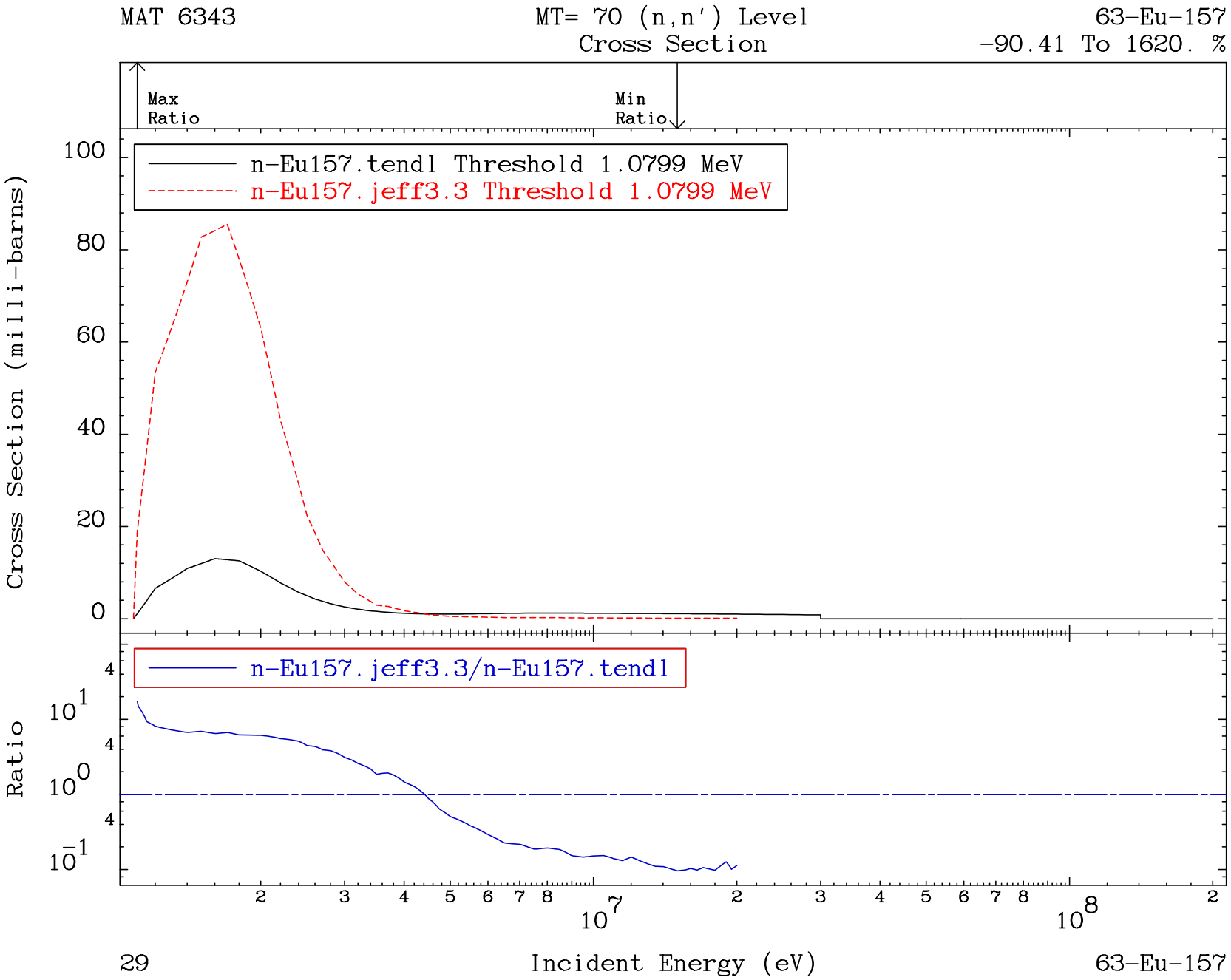

MAT 6343
MT= 65 (n,n') Level
Cross Section
63-Eu-157
-100.0 To 193.8 %
Max
Ratio
Min
Ratio
n-Eu157.tendl Threshold 728.65 keV
n-Eu157.jeff3.3 Threshold 728.65 keV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
16
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^0
10^-3
10^-6
7 8
10^6
2
3
4
5
6
7 8
10^7
2
3
4
5
6
7 8
10^8
2
24
Incident Energy (eV)
63-Eu-157

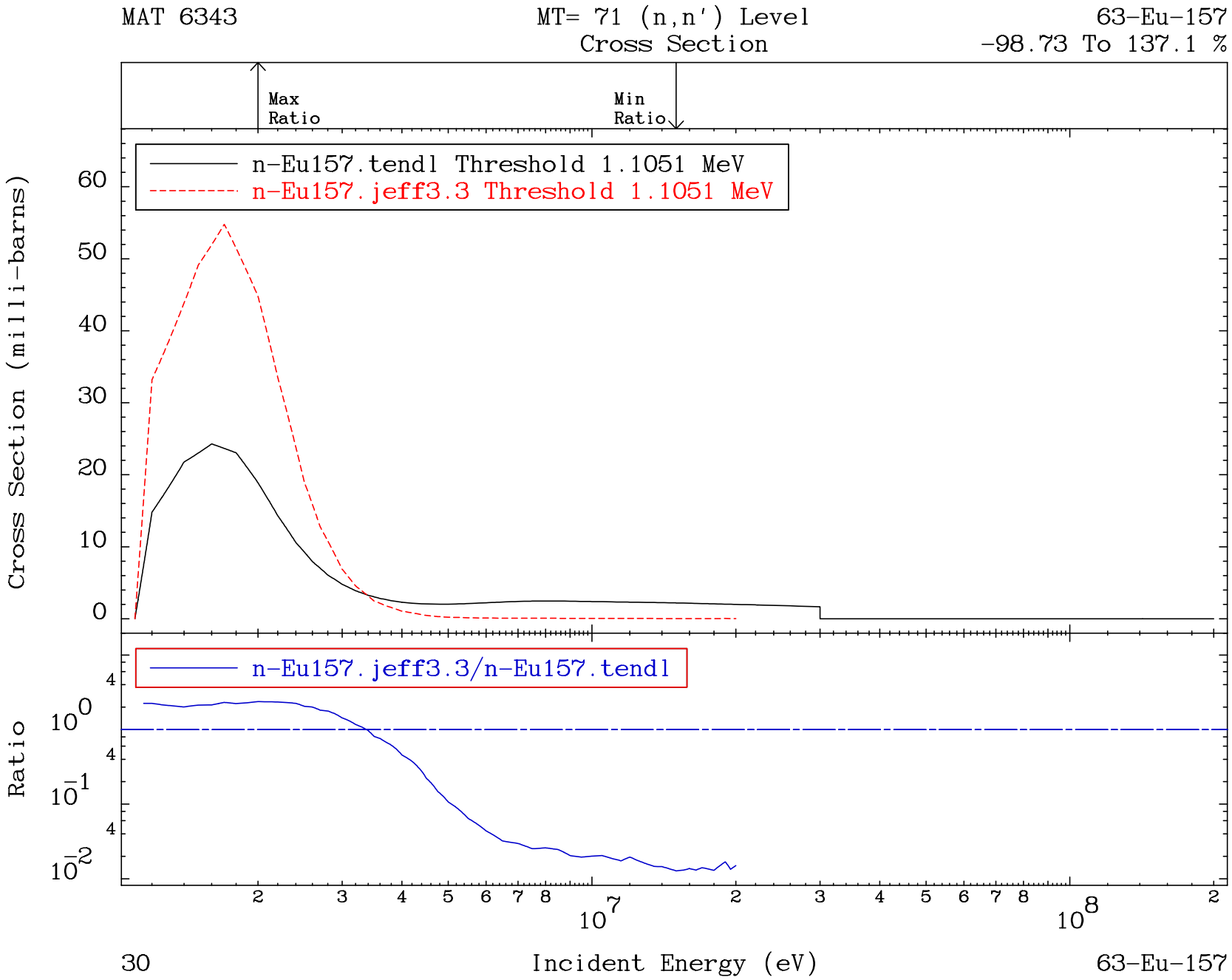

MAT 6343
MT= 66 (n,n') Level
Cross Section
63-Eu-157
-74.68 To 13.90 %
Max
Ratio
Min
Ratio
n-Eu157.tendl Threshold 978.24 keV
n-Eu157.jeff3.3 Threshold 978.24 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
1.2
0.8
0.4
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
25
Incident Energy (eV)
63-Eu-157

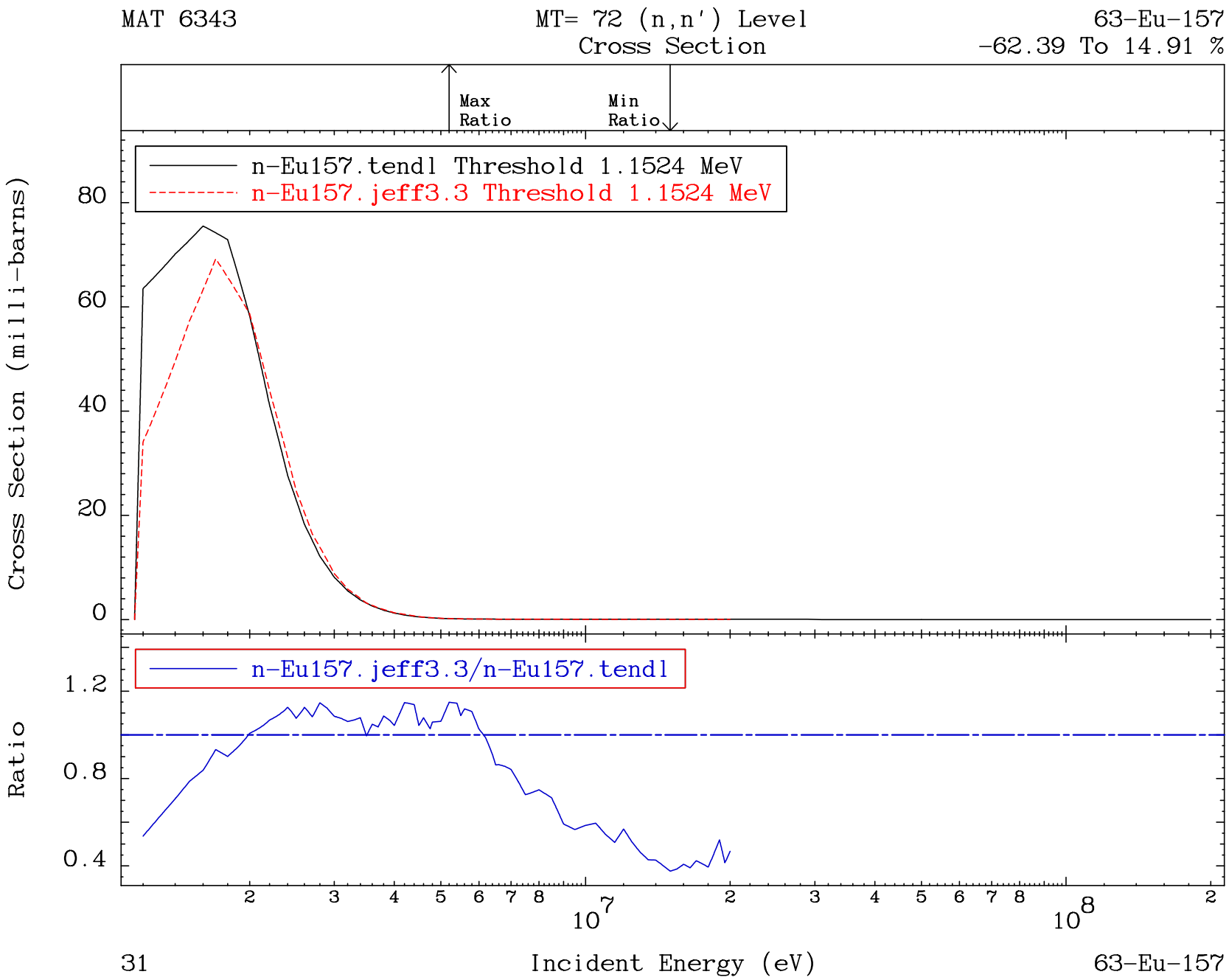

MAT 6343
MT= 67 (n,n') Level
Cross Section
63-Eu-157
-99.31 To 181.4 %
Max
Ratio
Min
Ratio
n-Eu157.tendl Threshold 994.73 keV
n-Eu157.jeff3.3 Threshold 994.73 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^1
10^0
10^-1
10^-2
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
26
Incident Energy (eV)
63-Eu-157

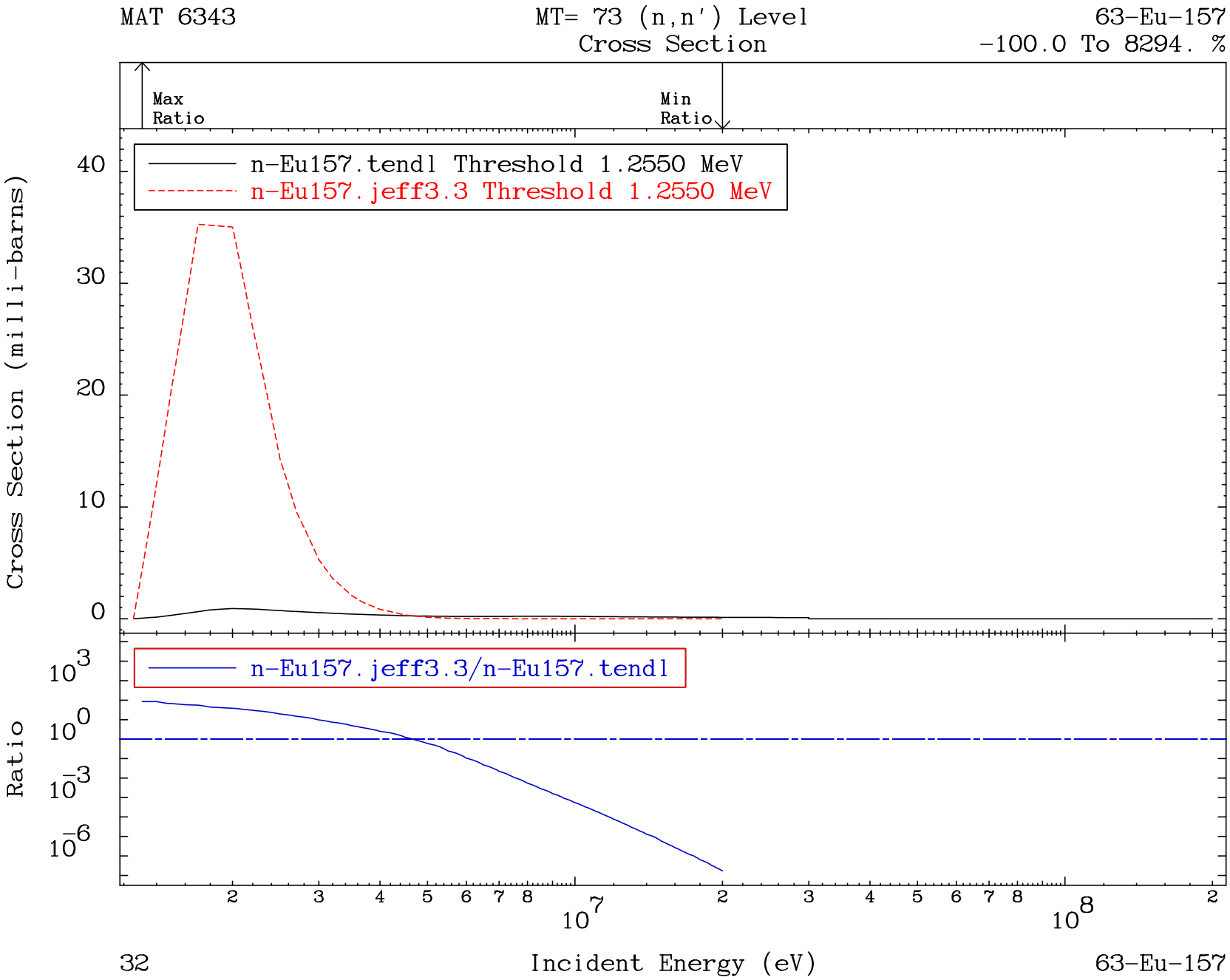

MAT 6343
MT= 68 (n,n') Level
Cross Section
63-Eu-157
-84.55 To 12.23 %
Max Ratio
Min Ratio
n-Eu157.tendl Threshold 1.0278 MeV
n-Eu157.jeff3.3 Threshold 1.0278 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
1.2
0.8
0.4
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
63-Eu-157

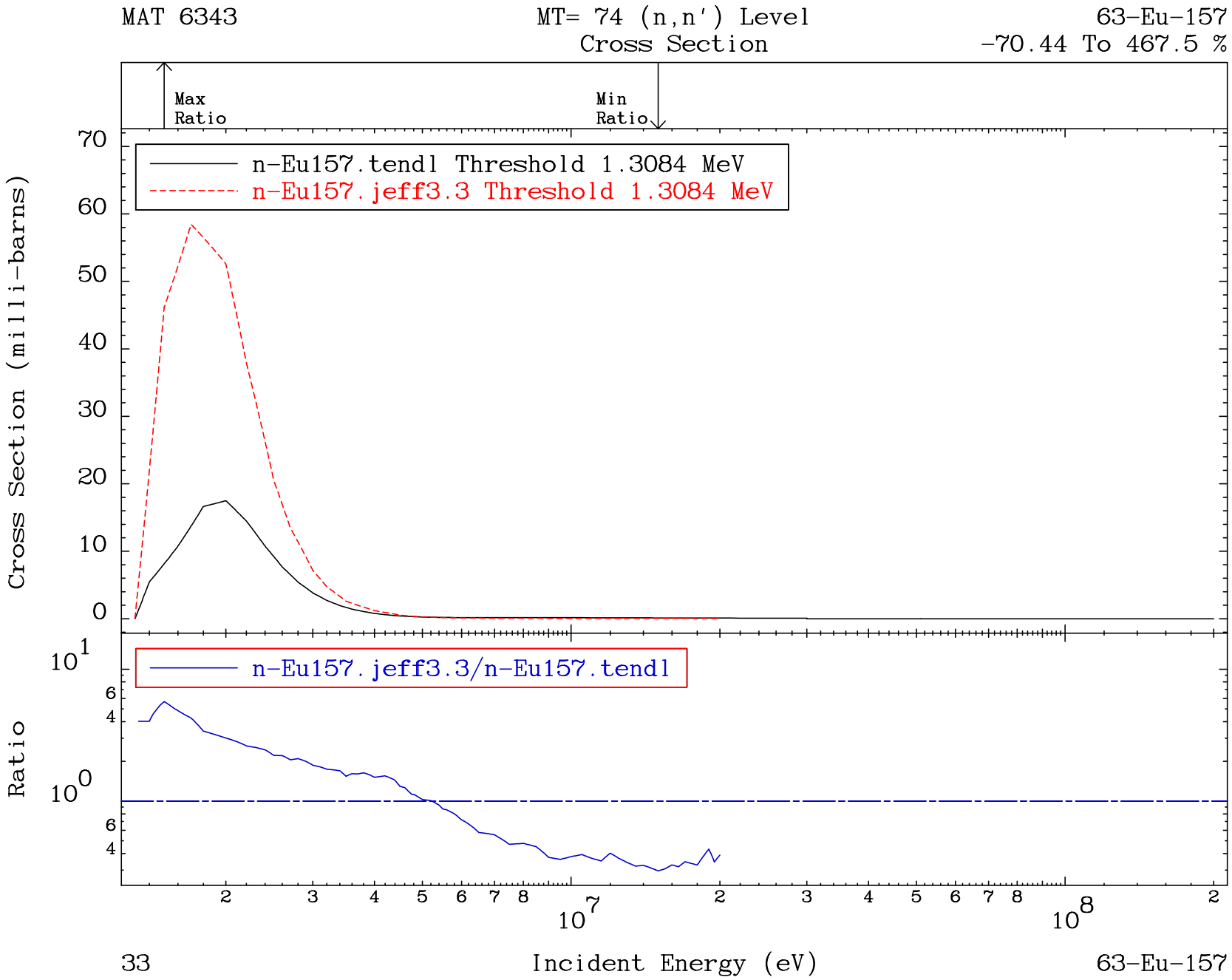

MAT 6343
MT= 69 (n,n') Level
Cross Section
63-Eu-157
-100.0 To 44.12 %
Max Ratio
Min Ratio
n-Eu157.tendl Threshold 1.0638 MeV
n-Eu157.jeff3.3 Threshold 1.0638 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^0
10^-3
10^-6
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
28
Incident Energy (eV)
63-Eu-157

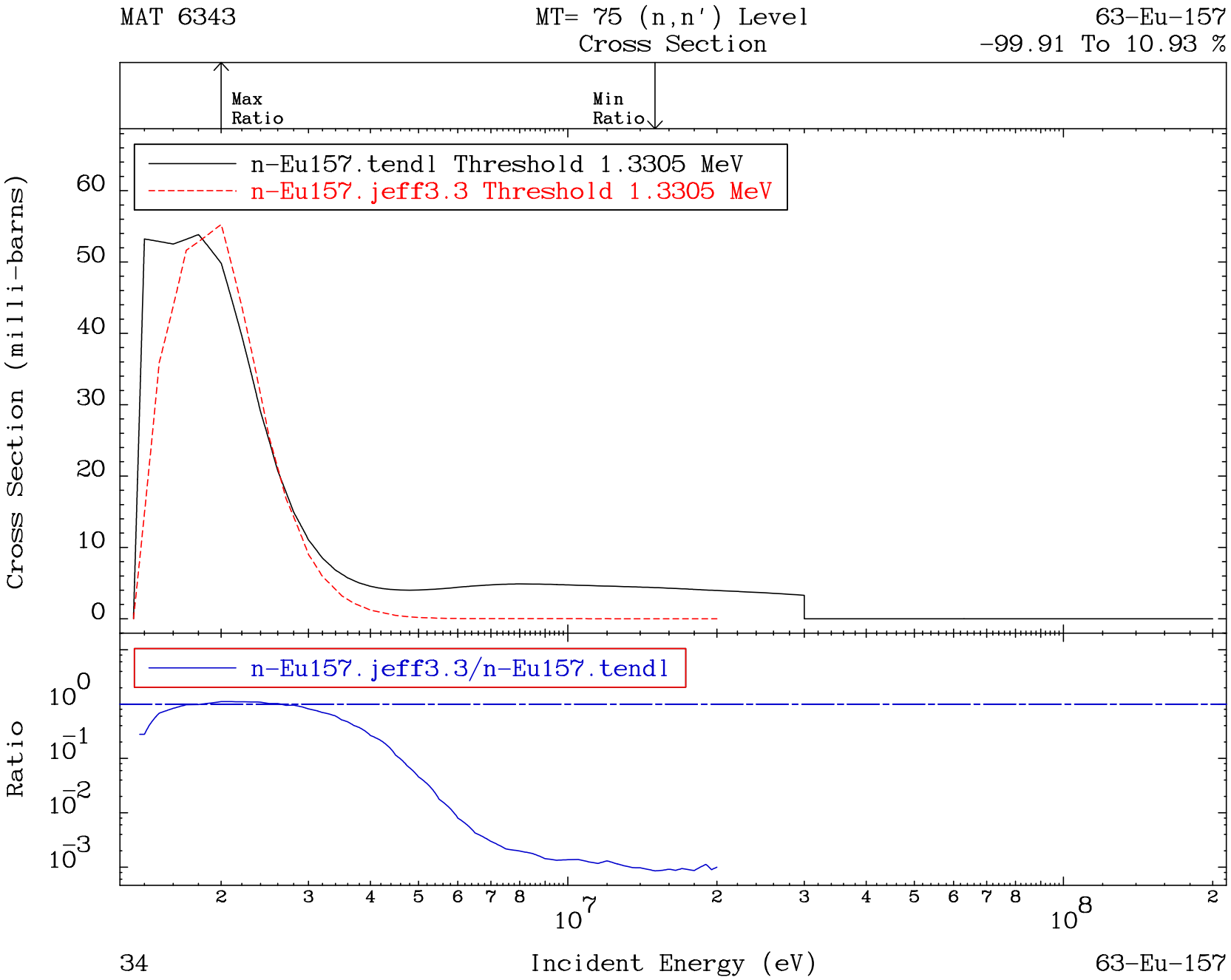

MAT 6343
MT= 70 (n,n') Level
Cross Section
63-Eu-157
-90.41 To 1620. %
Max Ratio
Min Ratio
n-Eu157.tendl Threshold 1.0799 MeV
n-Eu157.jeff3.3 Threshold 1.0799 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^{1}
10^{0}
10^{-1}
2 3 4 5 6 7 8 10^{7} 2 3 4 5 6 7 8 10^{8} 2
29
Incident Energy (eV)
63-Eu-157

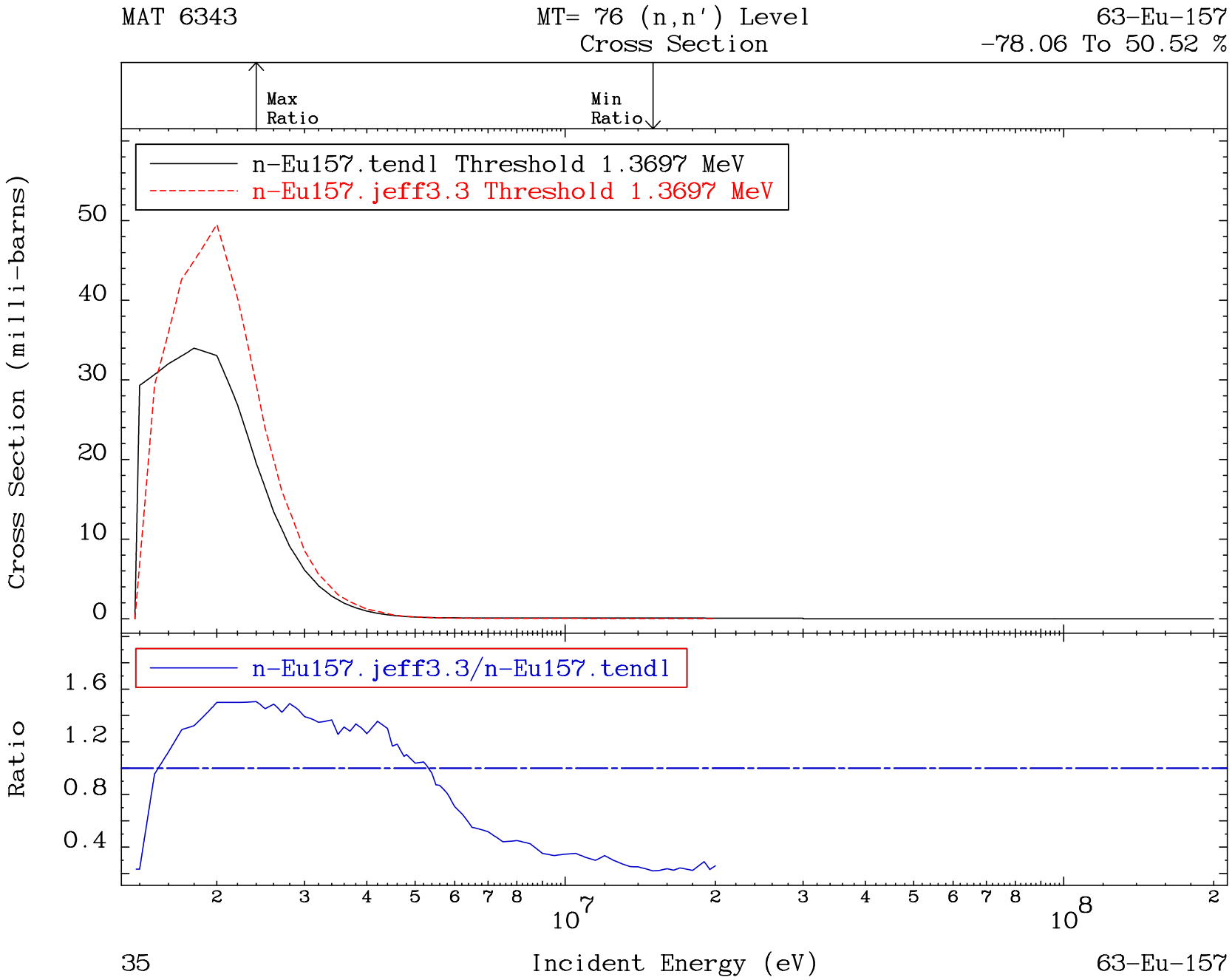

MAT 6343
MT= 71 (n,n') Level
Cross Section
63-Eu-157
-98.73 To 137.1 %
Max
Ratio
Min
Ratio
n-Eu157.tendl Threshold 1.1051 MeV
n-Eu157.jeff3.3 Threshold 1.1051 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
4
10^0
4
10^-1
4
10^-2
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
30
Incident Energy (eV)
63-Eu-157

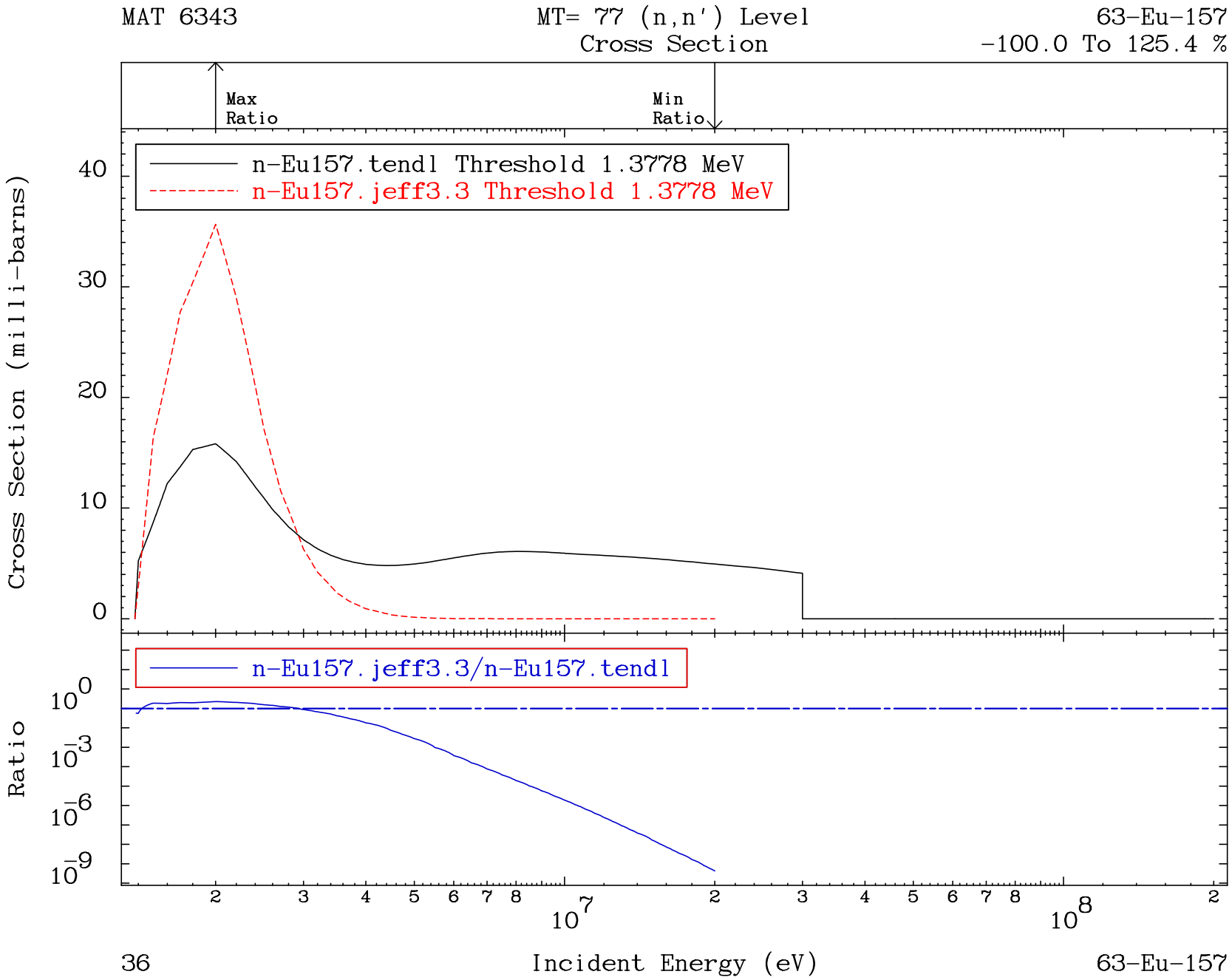

MAT 6343
MT= 72 (n,n') Level
Cross Section
63-Eu-157
-62.39 To 14.91 %
Max
Ratio
Min
Ratio
n-Eu157.tendl Threshold 1.1524 MeV
n-Eu157.jeff3.3 Threshold 1.1524 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
1.2
0.8
0.4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
31
Incident Energy (eV)
63-Eu-157

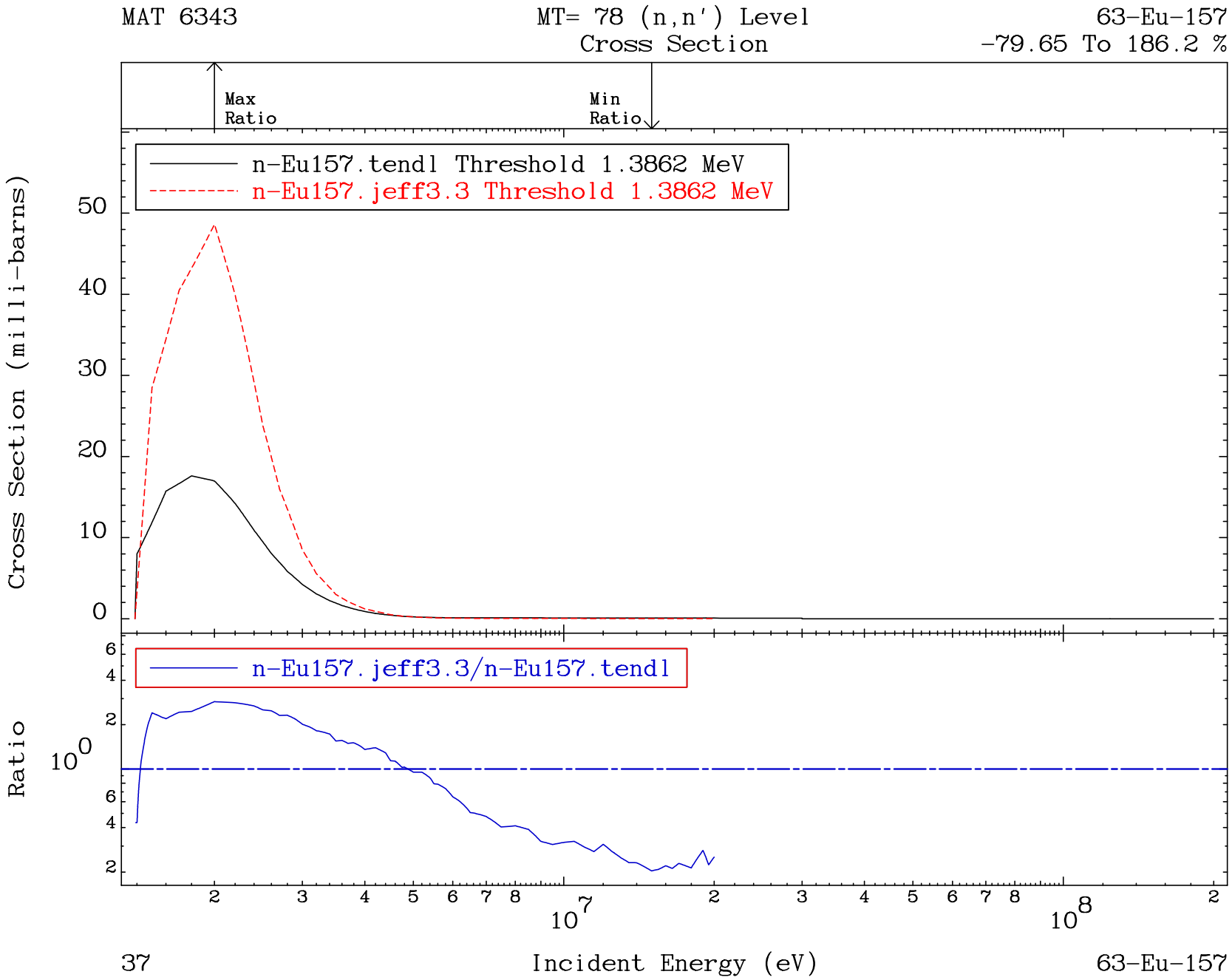

MAT 6343
MT= 73 (n,n') Level
Cross Section
63-Eu-157
-100.0 To 8294. %
Max
Ratio
Min
Ratio
n-Eu157.tendl Threshold 1.2550 MeV
n-Eu157.jeff3.3 Threshold 1.2550 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^3
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
32
Incident Energy (eV)
63-Eu-157

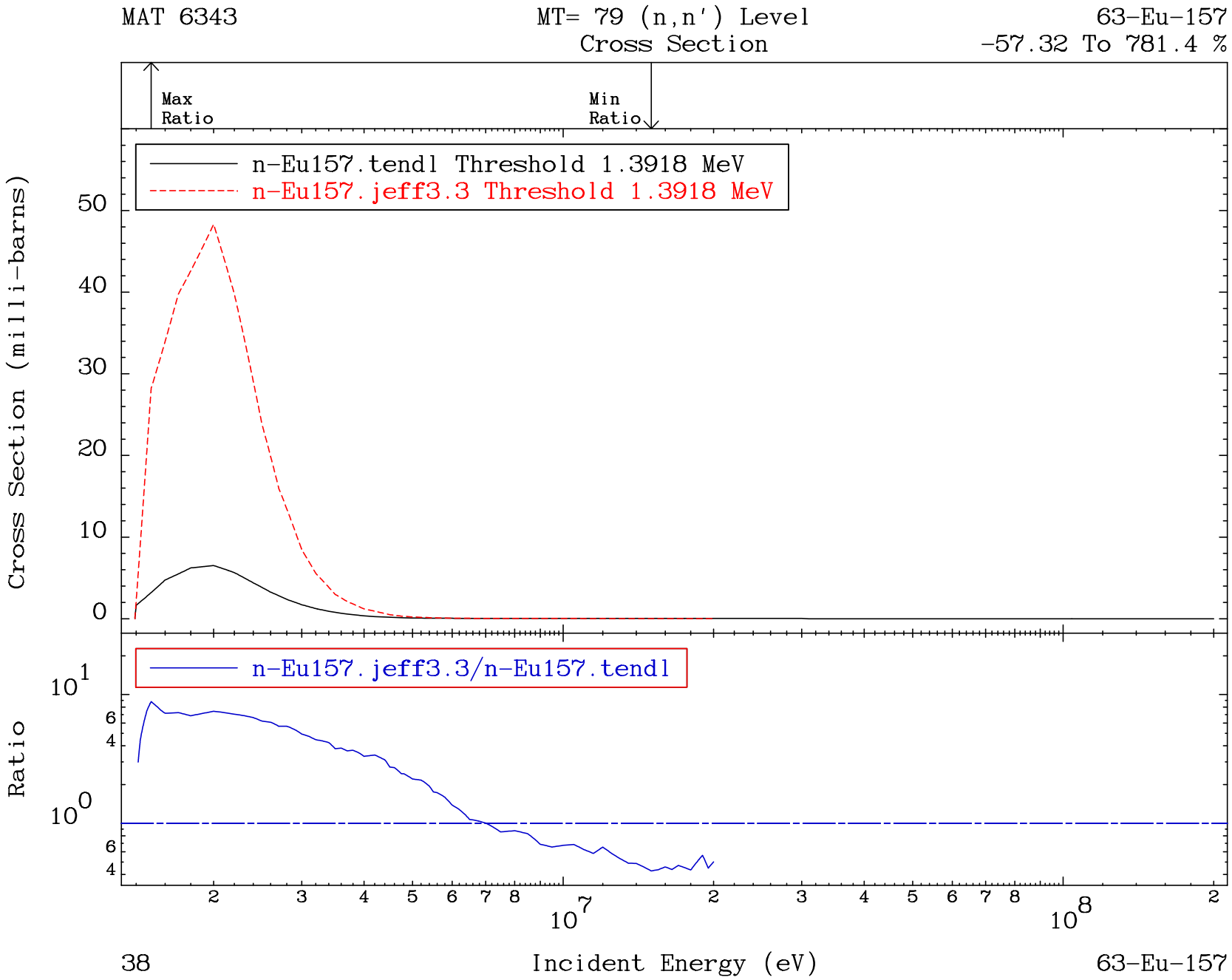

MAT 6343
MT= 74 (n,n') Level
Cross Section
63-Eu-157
-70.44 To 467.5 %
Max Ratio
Min Ratio
n-Eu157.tendl Threshold 1.3084 MeV
n-Eu157.jeff3.3 Threshold 1.3084 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^1
10^0
6
4
6
4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
33
Incident Energy (eV)
63-Eu-157

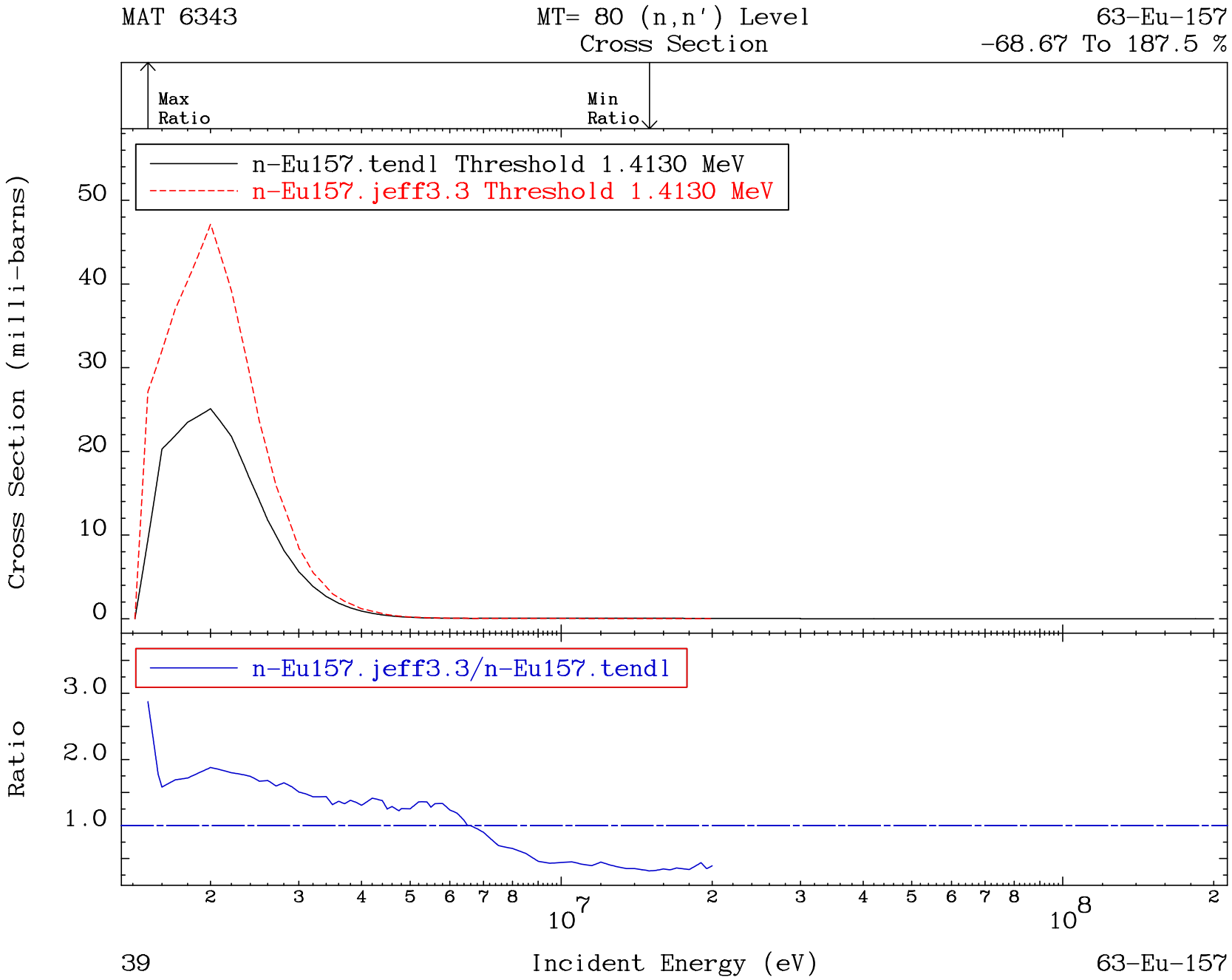

MAT 6343
MT= 75 (n,n') Level
Cross Section
63-Eu-157
-99.91 To 10.93 %
Max Ratio
Min Ratio
n-Eu157.tendl Threshold 1.3305 MeV
n-Eu157.jeff3.3 Threshold 1.3305 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^0
10^-1
10^-2
10^-3
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
63-Eu-157

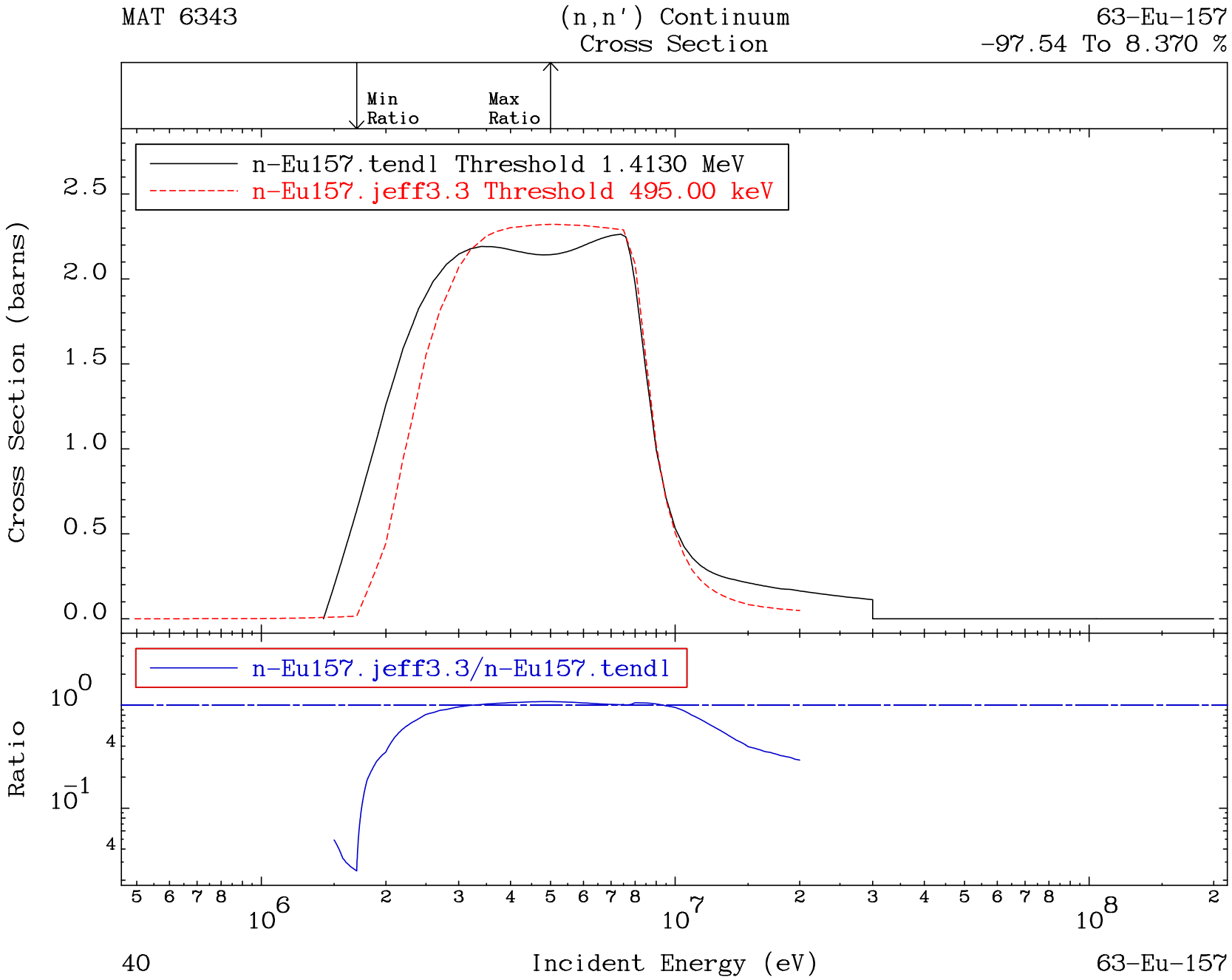

MAT 6343
MT= 76 (n,n') Level
Cross Section
63-Eu-157
-78.06 To 50.52 %
Max
Ratio
Min
Ratio
n-Eu157.tendl Threshold 1.3697 MeV
n-Eu157.jeff3.3 Threshold 1.3697 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
1.6
1.2
0.8
0.4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
35
Incident Energy (eV)
63-Eu-157

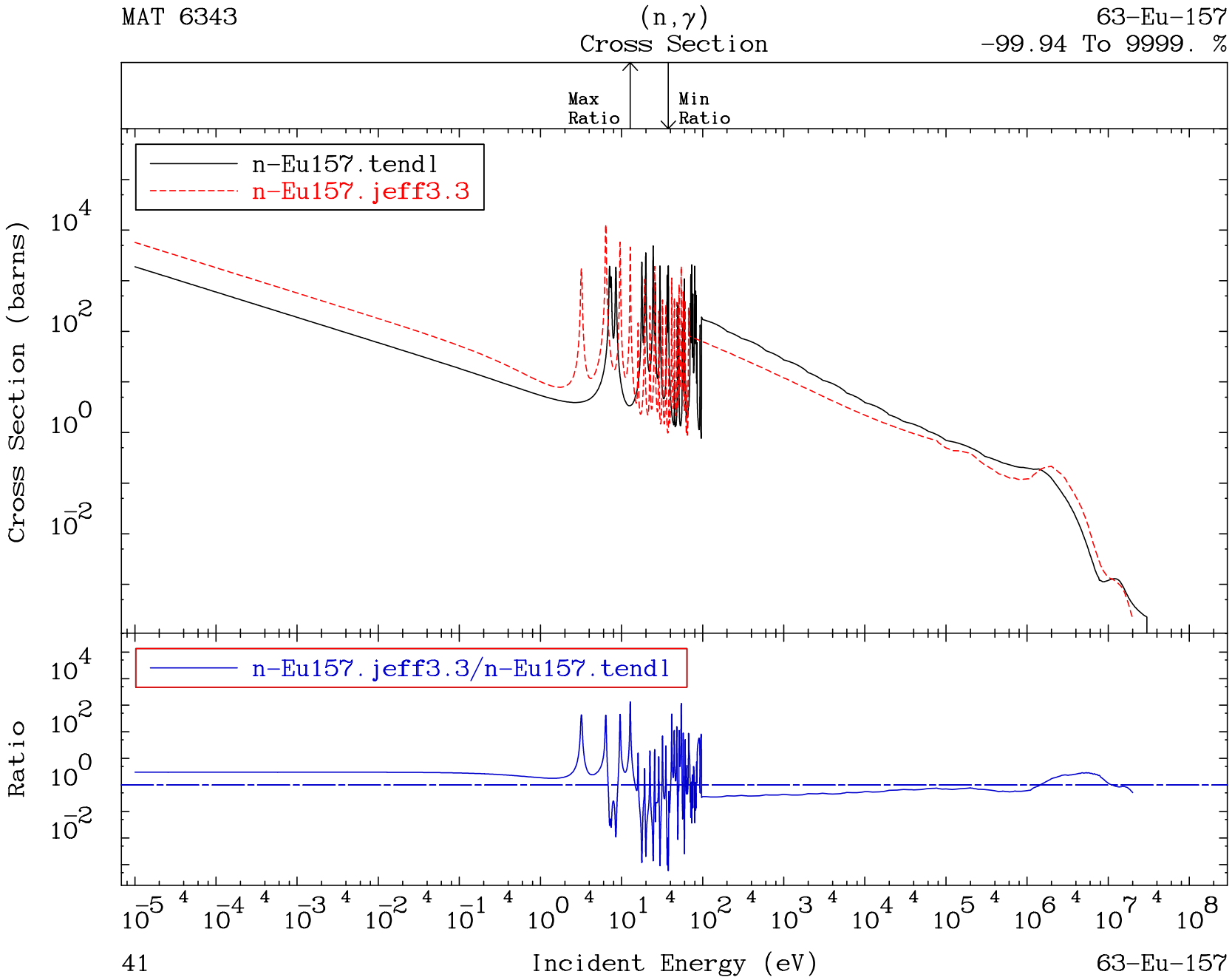

MAT 6343
MT= 77 (n,n') Level
Cross Section
63-Eu-157
-100.0 To 125.4 %
Max
Ratio
Min
Ratio
n-Eu157.tendl Threshold 1.3778 MeV
n-Eu157.jeff3.3 Threshold 1.3778 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^0
10^-3
10^-6
10^-9
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
36
Incident Energy (eV)
63-Eu-157

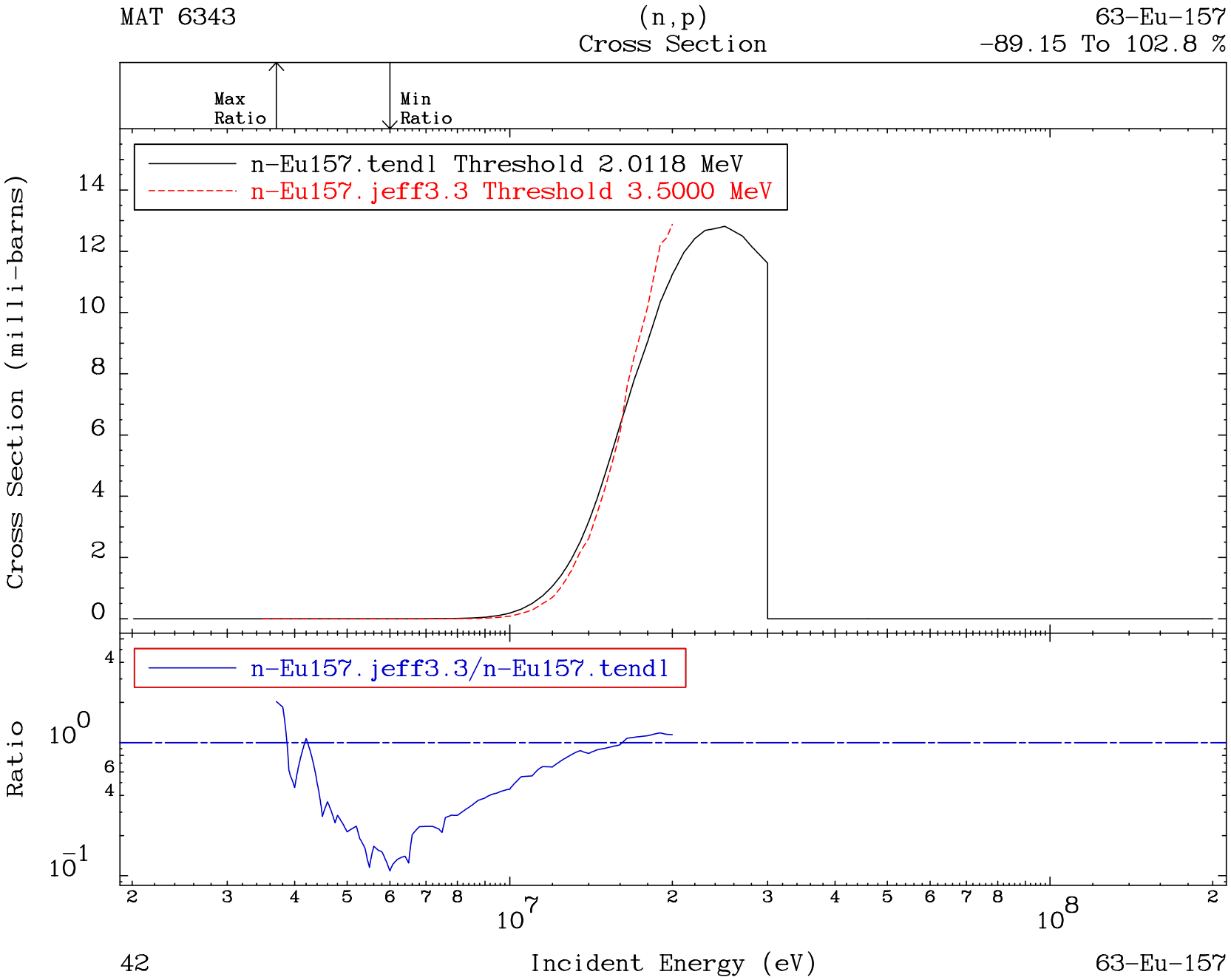

MAT 6343
MT= 78 (n,n') Level
Cross Section
63-Eu-157
-79.65 To 186.2 %
Max
Ratio
Min
Ratio
n-Eu157.tendl Threshold 1.3862 MeV
n-Eu157.jeff3.3 Threshold 1.3862 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
6
4
2
10^0
6
4
2
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
37
Incident Energy (eV)
63-Eu-157

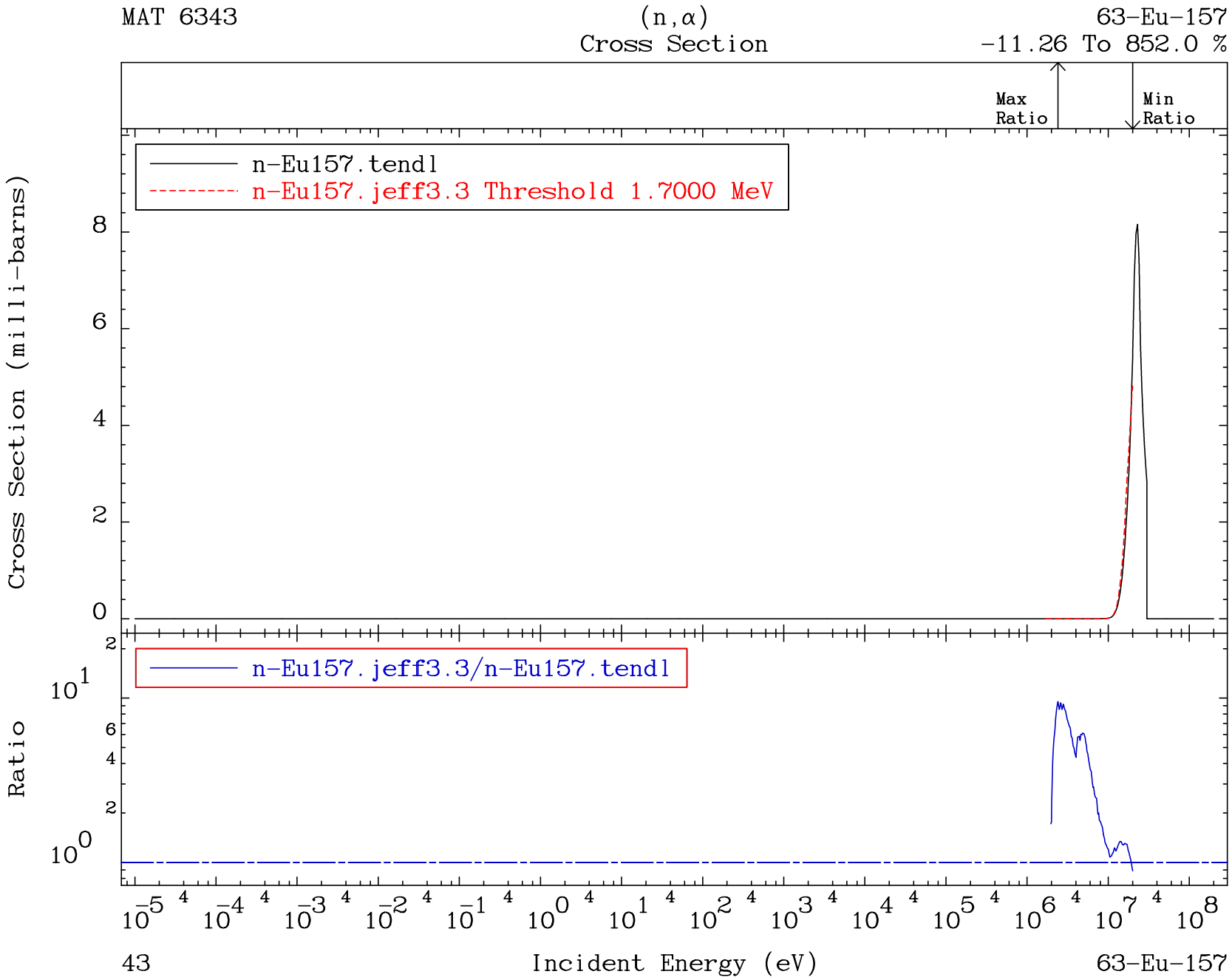

MAT 6343
MT= 79 (n,n') Level
Cross Section
63-Eu-157
-57.32 To 781.4 %
Max
Ratio
Min
Ratio
n-Eu157.tendl Threshold 1.3918 MeV
n-Eu157.jeff3.3 Threshold 1.3918 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^1
10^0
6
4
6
4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
38
Incident Energy (eV)
63-Eu-157

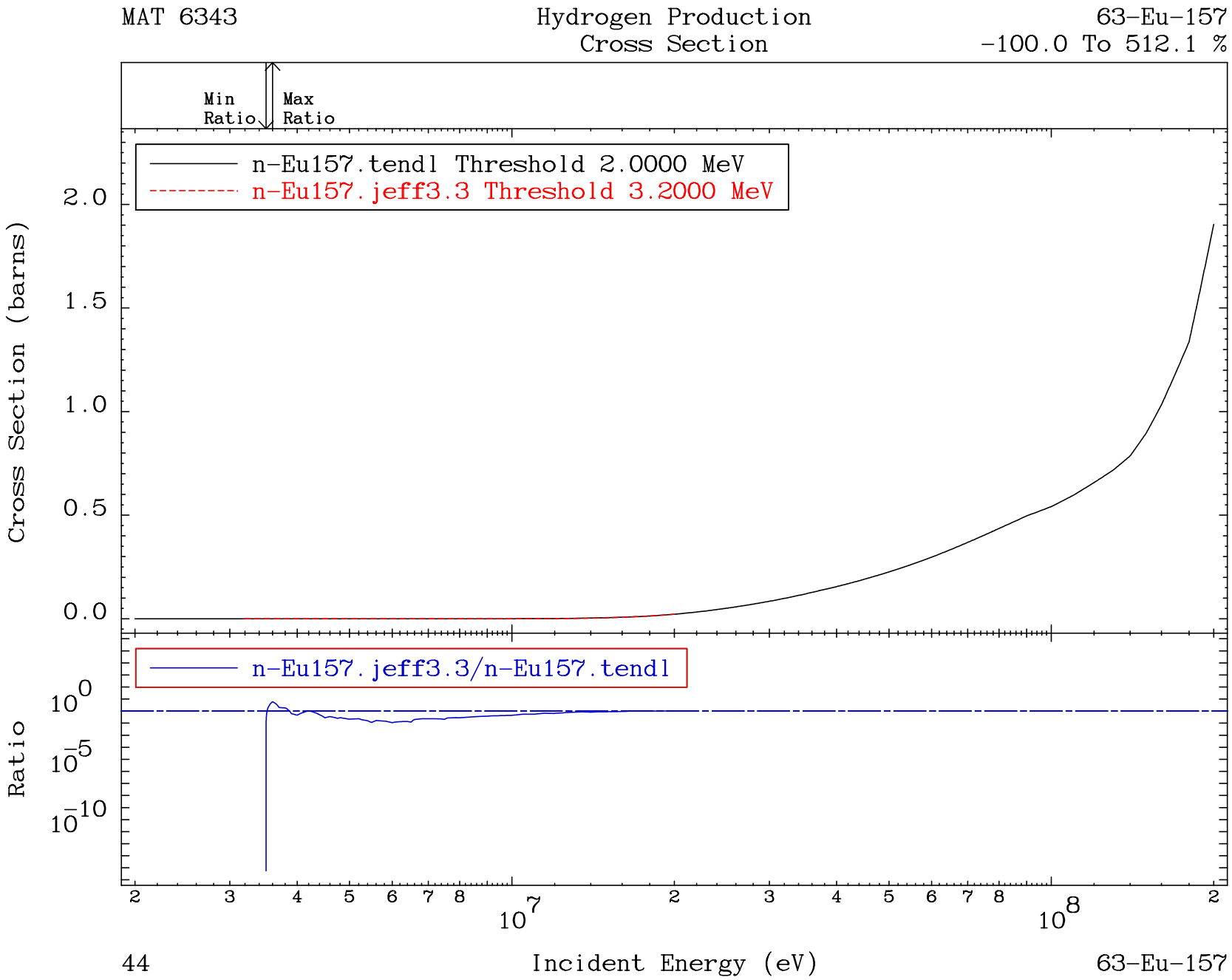

MAT 6343
MT= 80 (n,n') Level
Cross Section
63-Eu-157
-68.67 To 187.5 %
Max Ratio
Min Ratio
n-Eu157.tendl Threshold 1.4130 MeV
n-Eu157.jeff3.3 Threshold 1.4130 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
39
Incident Energy (eV)
63-Eu-157

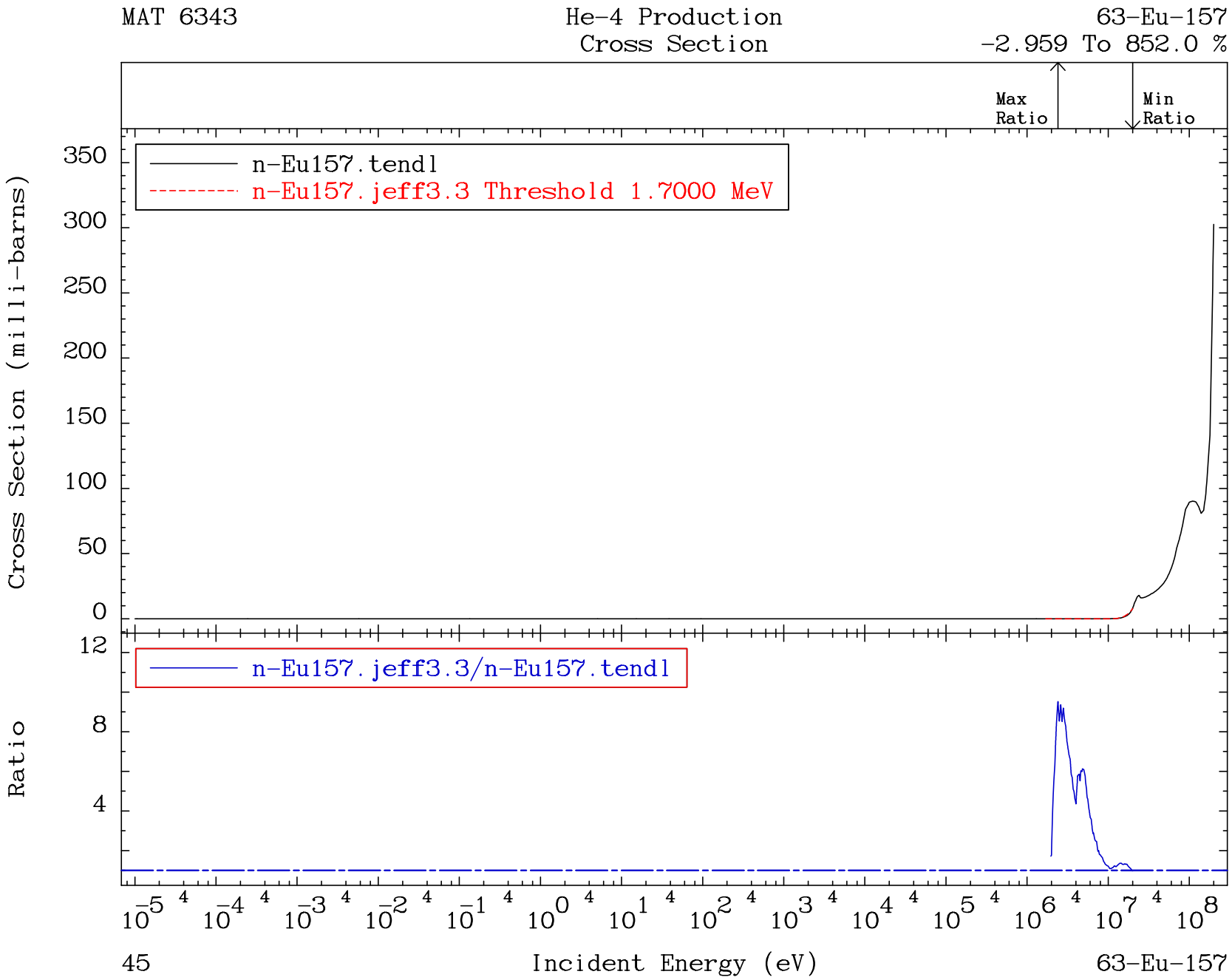

MAT 6343
(n,n') Continuum
Cross Section
63-Eu-157
-97.54 To 8.370 %
Min Ratio
Max Ratio
n-Eu157.tendl Threshold 1.4130 MeV
n-Eu157.jeff3.3 Threshold 495.00 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^0
4
10^-1
4
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
40
Incident Energy (eV)
63-Eu-157

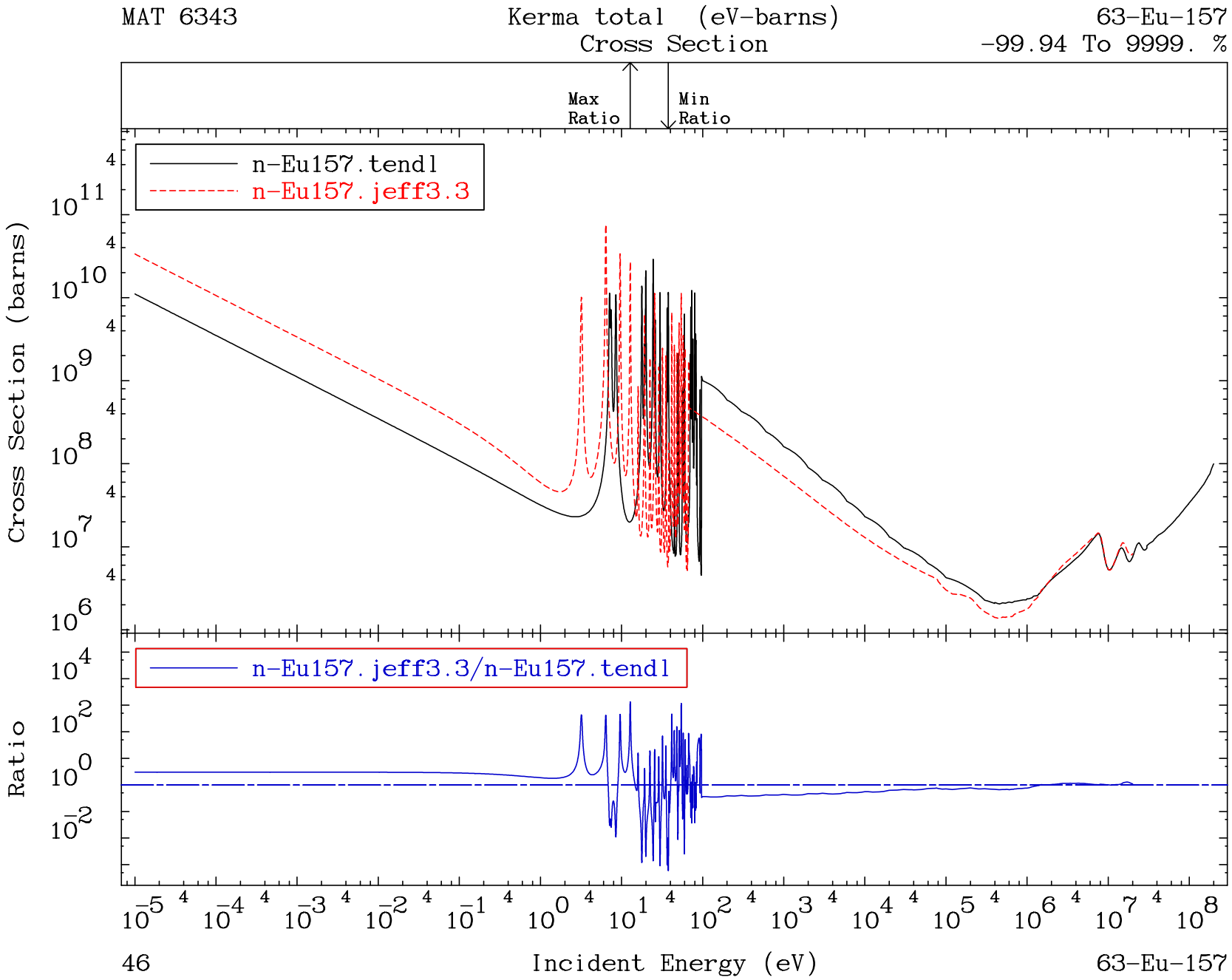

MAT 6343
(n,γ)
Cross Section
63-Eu-157
-99.94 To 9999. %
Max Ratio
Min Ratio
n-Eu157.tendl
n-Eu157.jeff3.3
Cross Section (barns)
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
Incident Energy (eV)
41
63-Eu-157

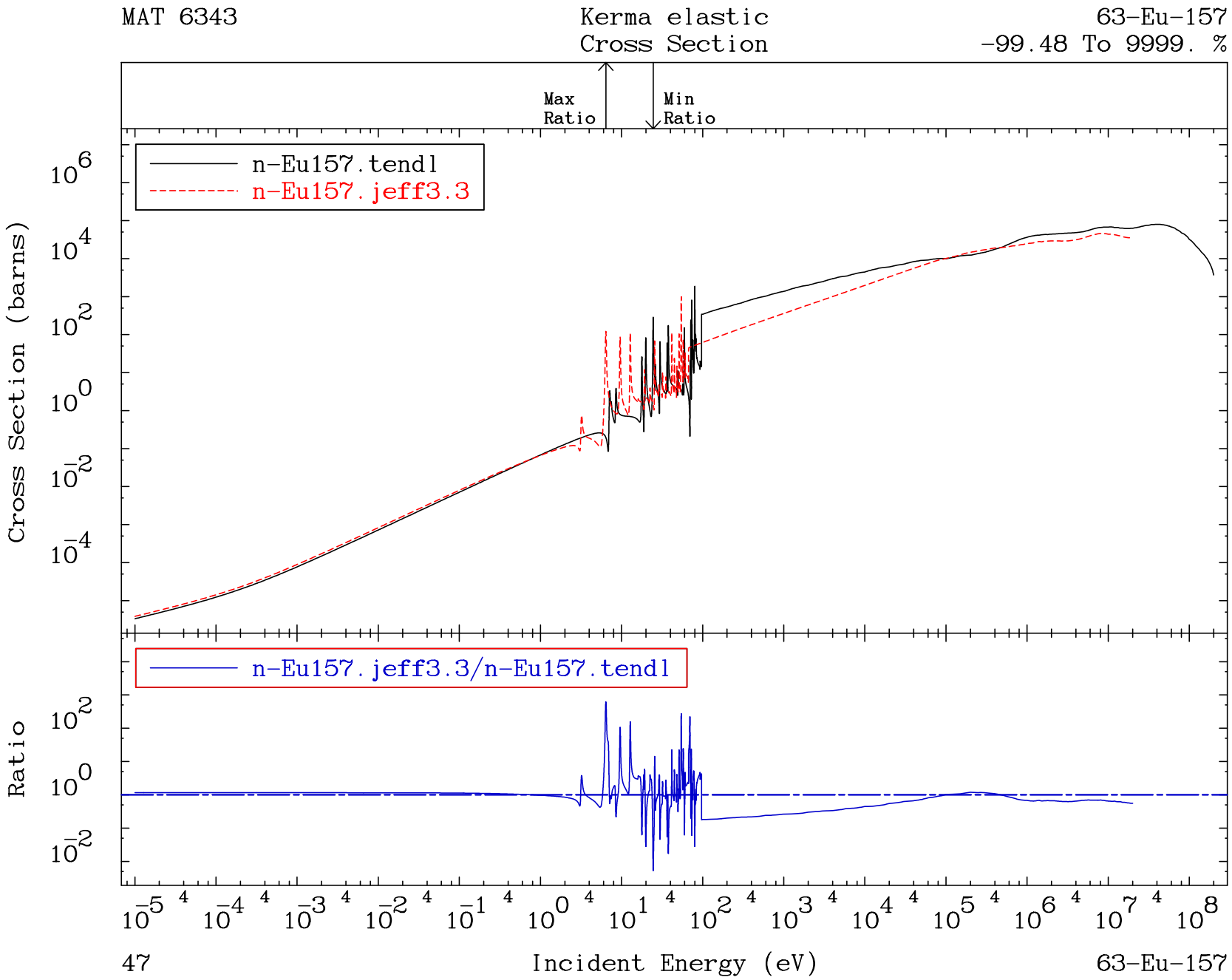

MAT 6343
(n,p)
Cross Section
63-Eu-157
-89.15 To 102.8 %
Max Ratio
Min Ratio
n-Eu157.tendl Threshold 2.0118 MeV
n-Eu157.jeff3.3 Threshold 3.5000 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^{0}
10^{-1}
10^{7}
10^{8}
Incident Energy (eV)
42
63-Eu-157

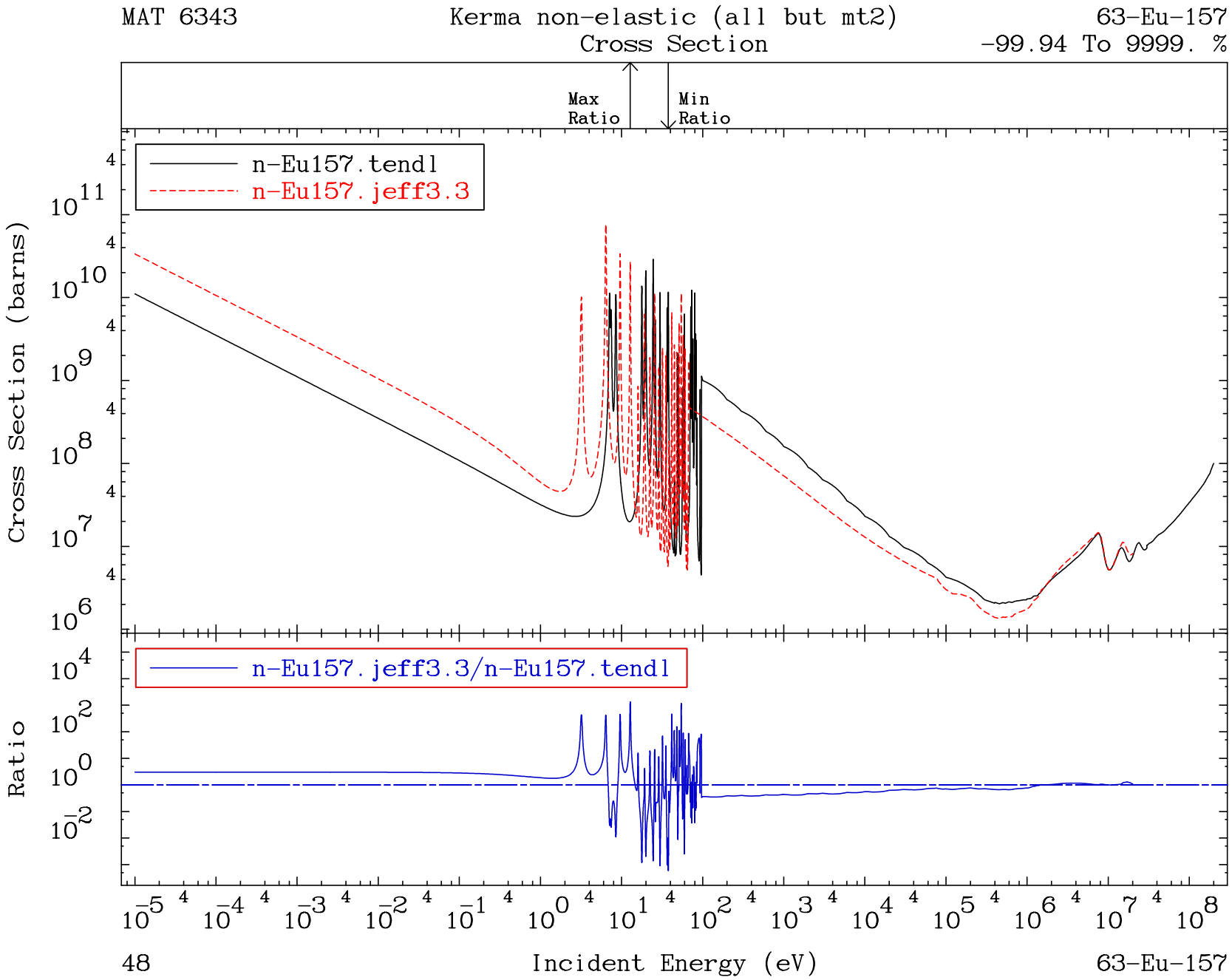

MAT 6343
(n,α)
Cross Section
63-Eu-157
-11.26 To 852.0 %
Max Ratio
Min Ratio
n-Eu157.tendl
n-Eu157.jeff3.3 Threshold 1.7000 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^0
10^1
2
4
6
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1
10^2
10^3
10^4
10^5
10^6
10^7
10^8
43
Incident Energy (eV)
63-Eu-157

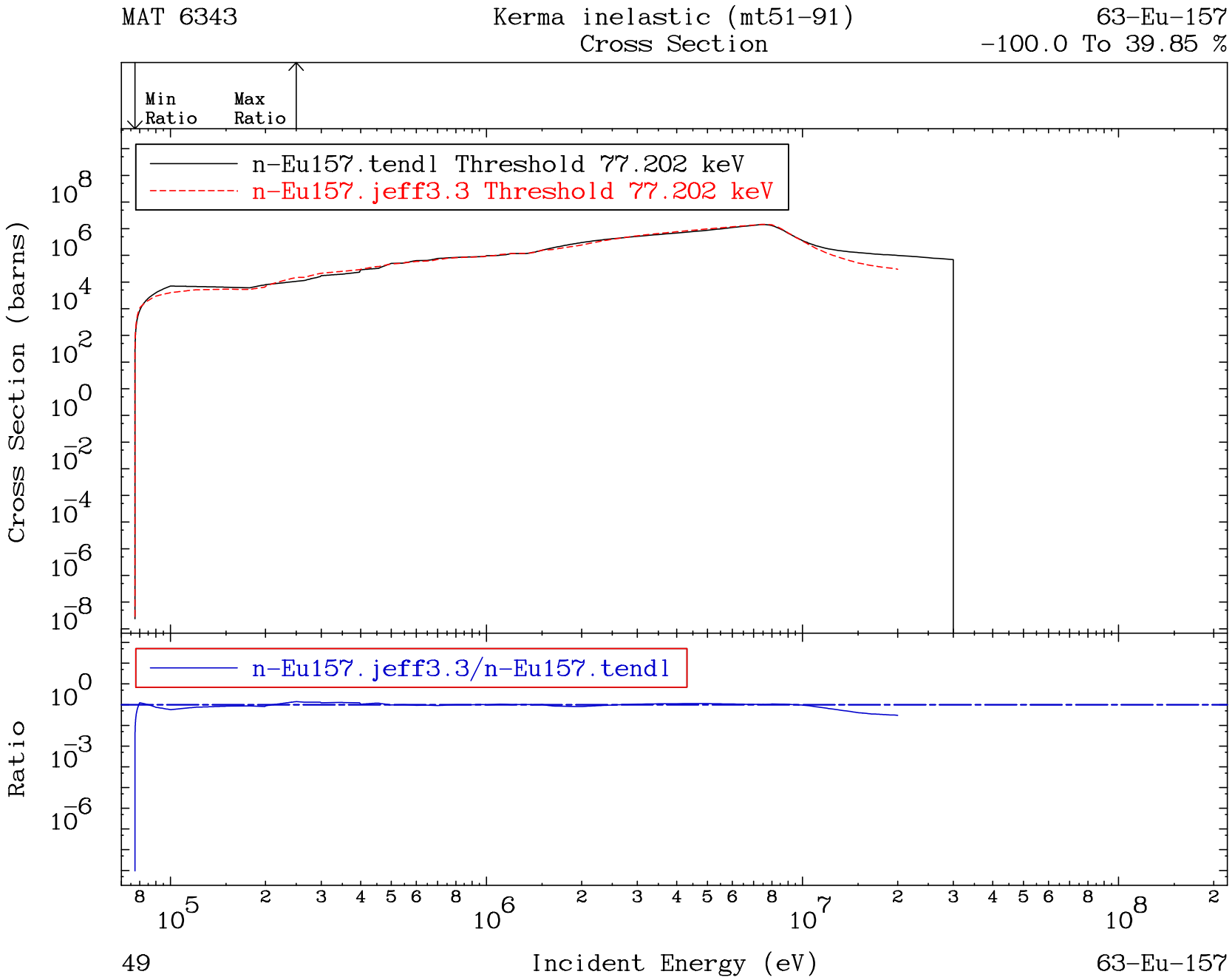

MAT 6343
Hydrogen Production
Cross Section
63-Eu-157
-100.0 To 512.1 %
Min Ratio
Max Ratio
n-Eu157.tendl Threshold 2.0000 MeV
n-Eu157.jeff3.3 Threshold 3.2000 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^0
10^-5
10^-10
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
44
Incident Energy (eV)
63-Eu-157

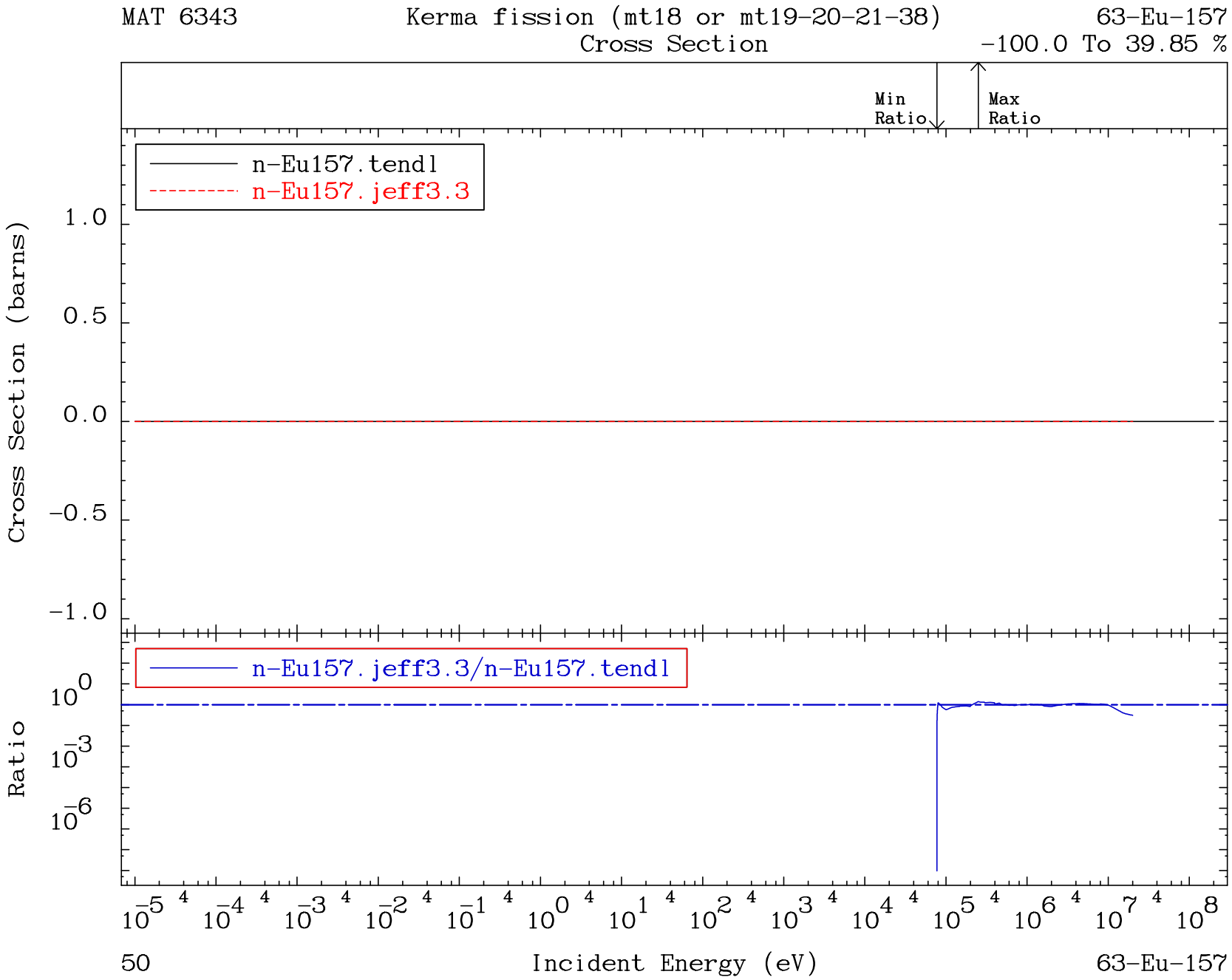

MAT 6343
He-4 Production
Cross Section
63-Eu-157
-2.959 To 852.0 %
Max Ratio
Min Ratio
n-Eu157.tendl
n-Eu157.jeff3.3 Threshold 1.7000 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
12
8
4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
45
Incident Energy (eV)
63-Eu-157

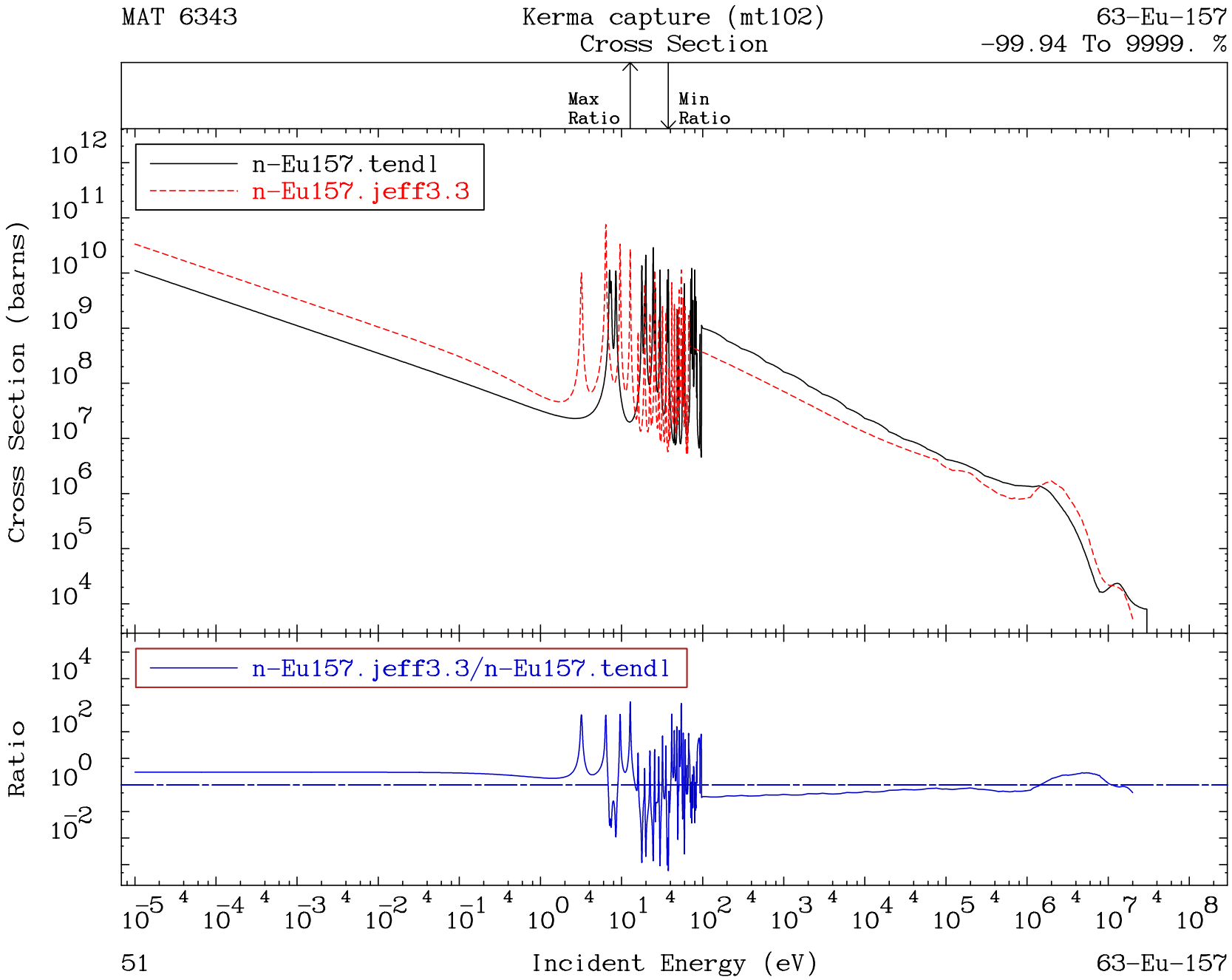

MAT 6343
Kerma total (eV-barns)
Cross Section
63-Eu-157
-99.94 To 9999. %
Max Ratio
Min Ratio
n-Eu157.tendl
n-Eu157.jeff3.3
Cross Section (barns)
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
46
Incident Energy (eV)
63-Eu-157

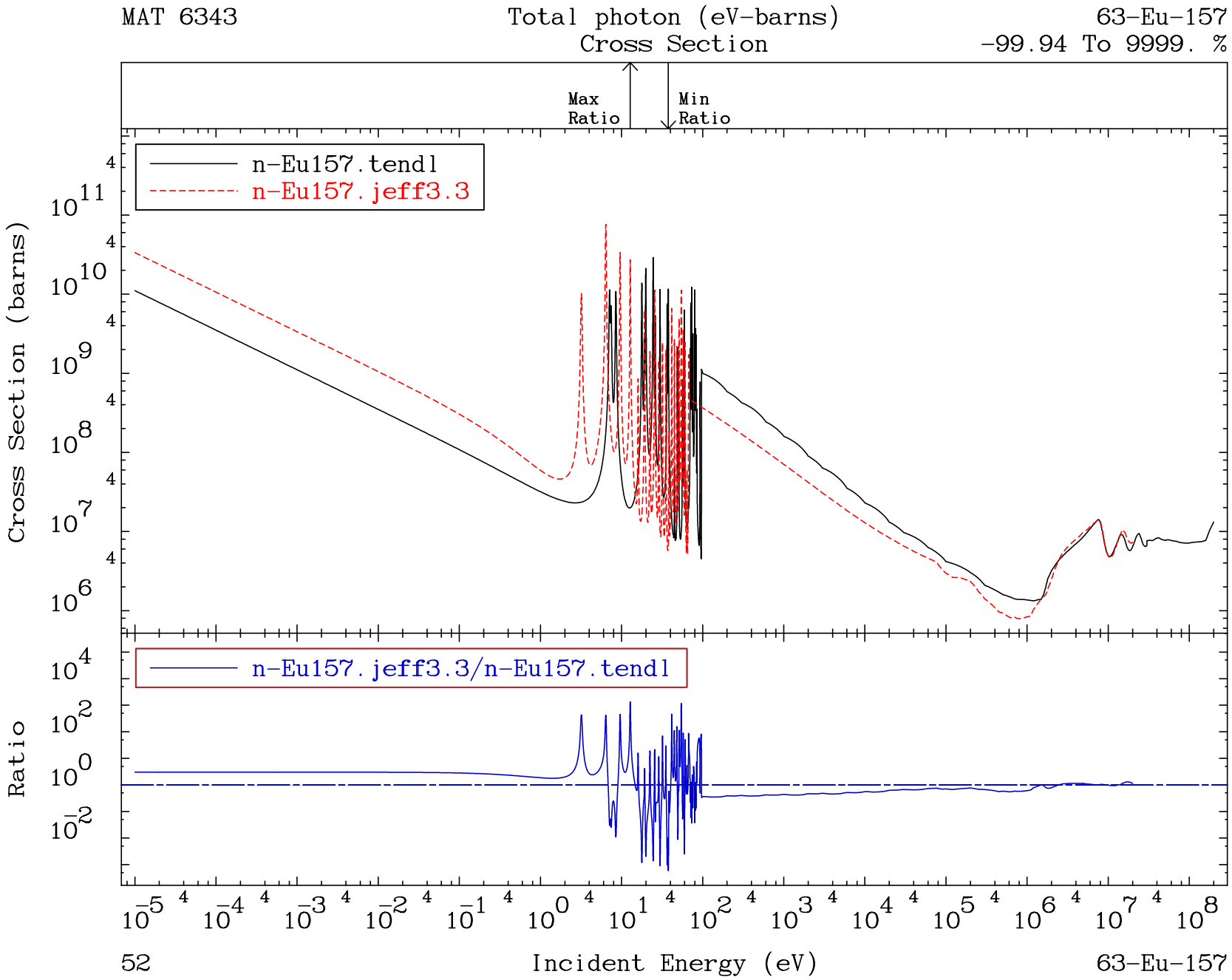

MAT 6343
Kerma elastic
Cross Section
63-Eu-157
-99.48 To 9999. %
Max
Ratio
Min
Ratio
n-Eu157.tendl
n-Eu157.jeff3.3
Cross Section (barns)
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
Incident Energy (eV)
47
63-Eu-157

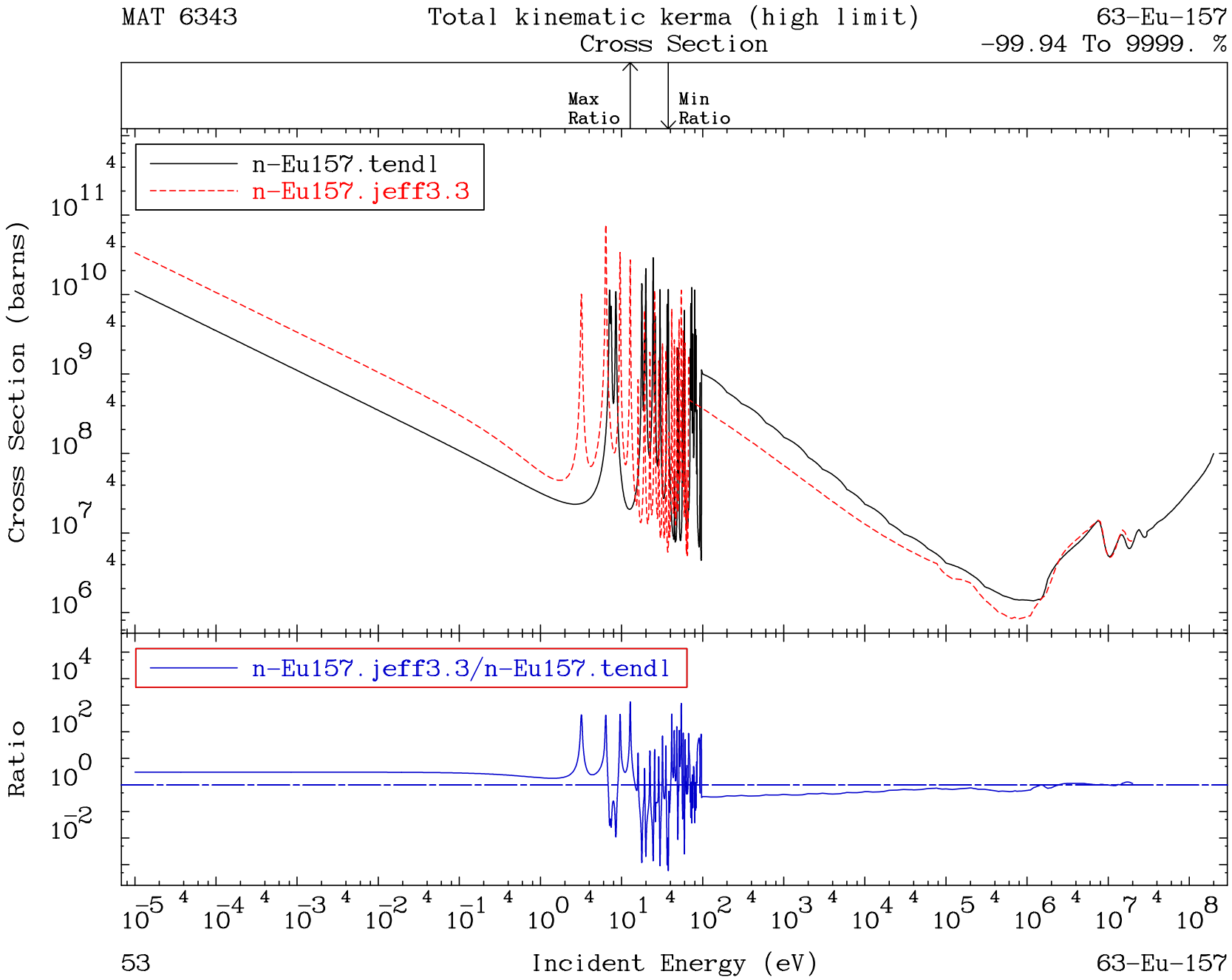

MAT 6343
Kerma non-elastic (all but mt2)
Cross Section
63-Eu-157
-99.94 To 9999. %
Max Ratio
Min Ratio
n-Eu157.tendl
n-Eu157.jeff3.3
Cross Section (barns)
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
Incident Energy (eV)
48
63-Eu-157

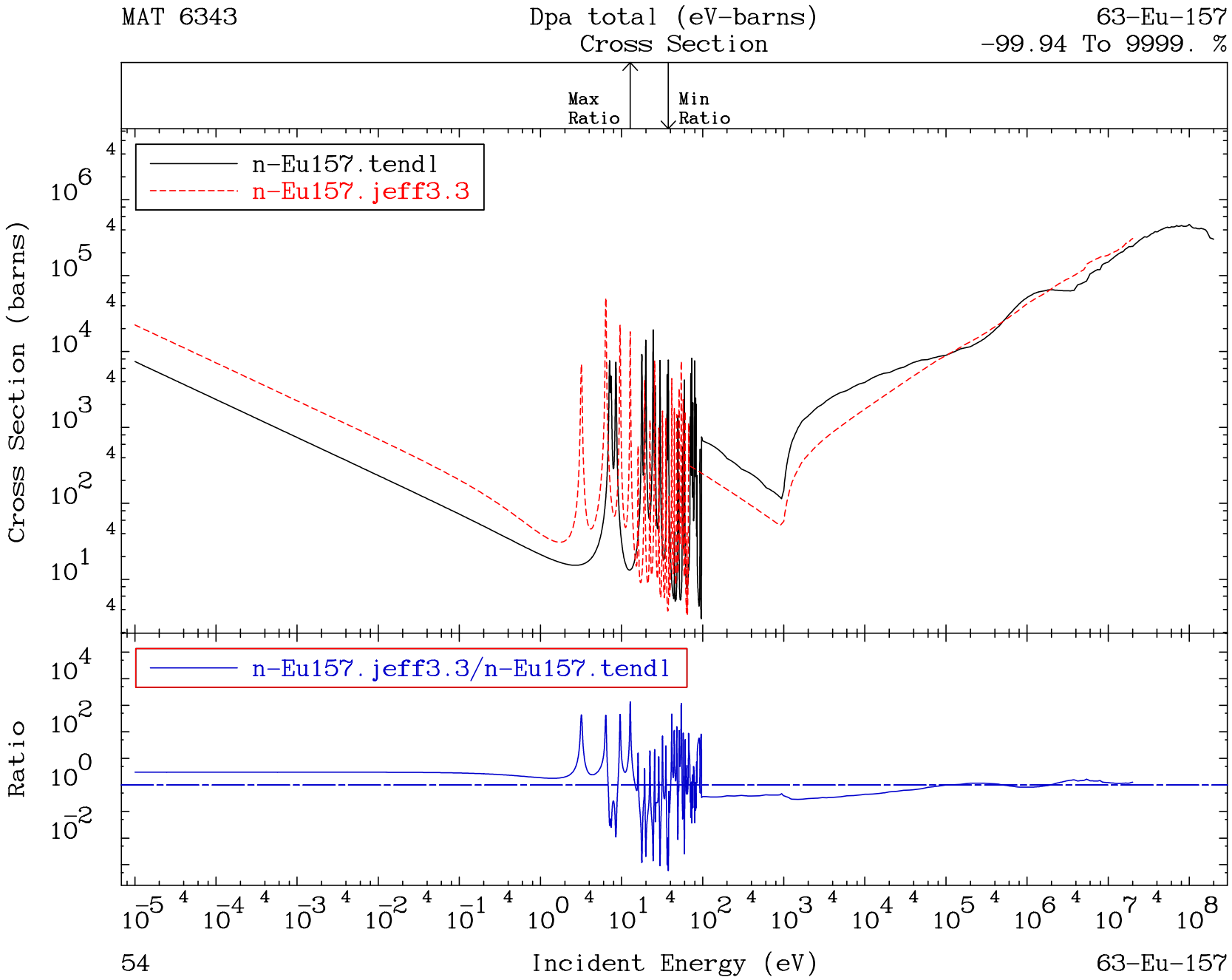

MAT 6343
Kerma inelastic (mt51-91)
Cross Section
63-Eu-157
-100.0 To 39.85 %
Min Ratio
Max Ratio
n-Eu157.tendl Threshold 77.202 keV
n-Eu157.jeff3.3 Threshold 77.202 keV
Cross Section (barns)
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
Incident Energy (eV)
49
63-Eu-157

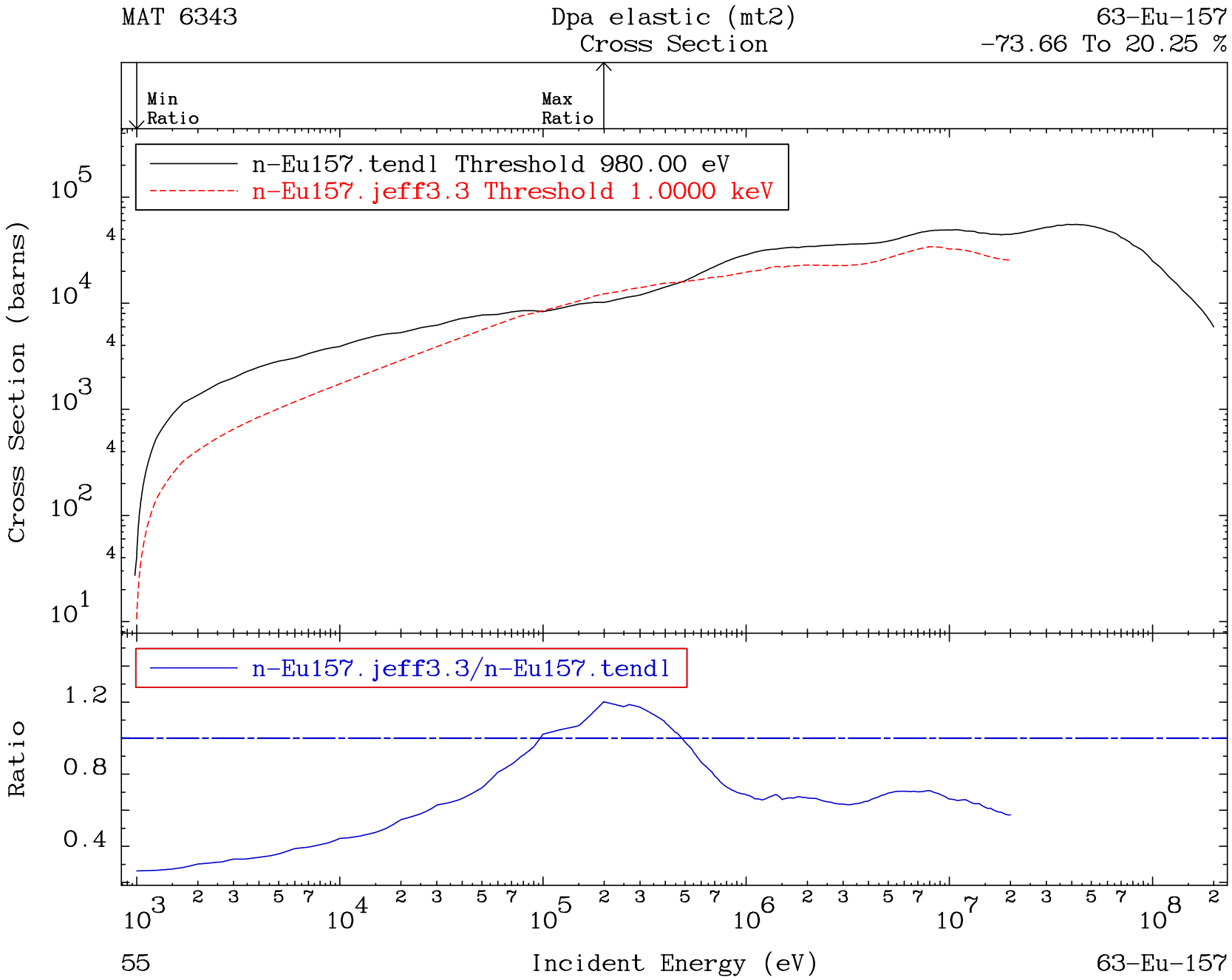

MAT 6343
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
63-Eu-157
-100.0 To 39.85 %
Min Ratio
Max Ratio
n-Eu157.tendl
n-Eu157.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
10^0
10^-3
10^-6
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
50
Incident Energy (eV)
63-Eu-157

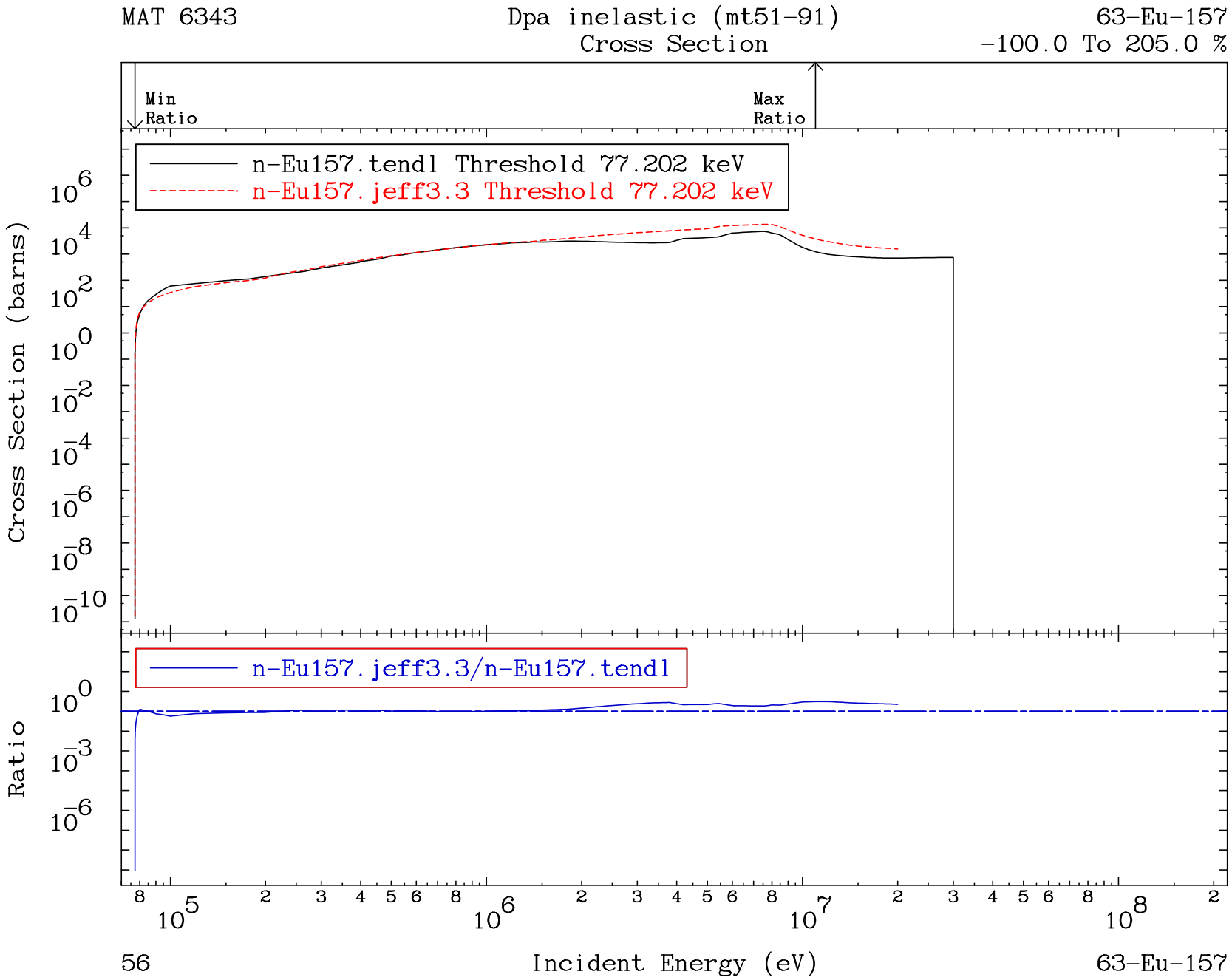

MAT 6343
Kerma capture (mt102)
Cross Section
63-Eu-157
-99.94 To 9999. %
Max Ratio
Min Ratio
n-Eu157.tendl
n-Eu157.jeff3.3
Cross Section (barns)
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
51
Incident Energy (eV)
63-Eu-157

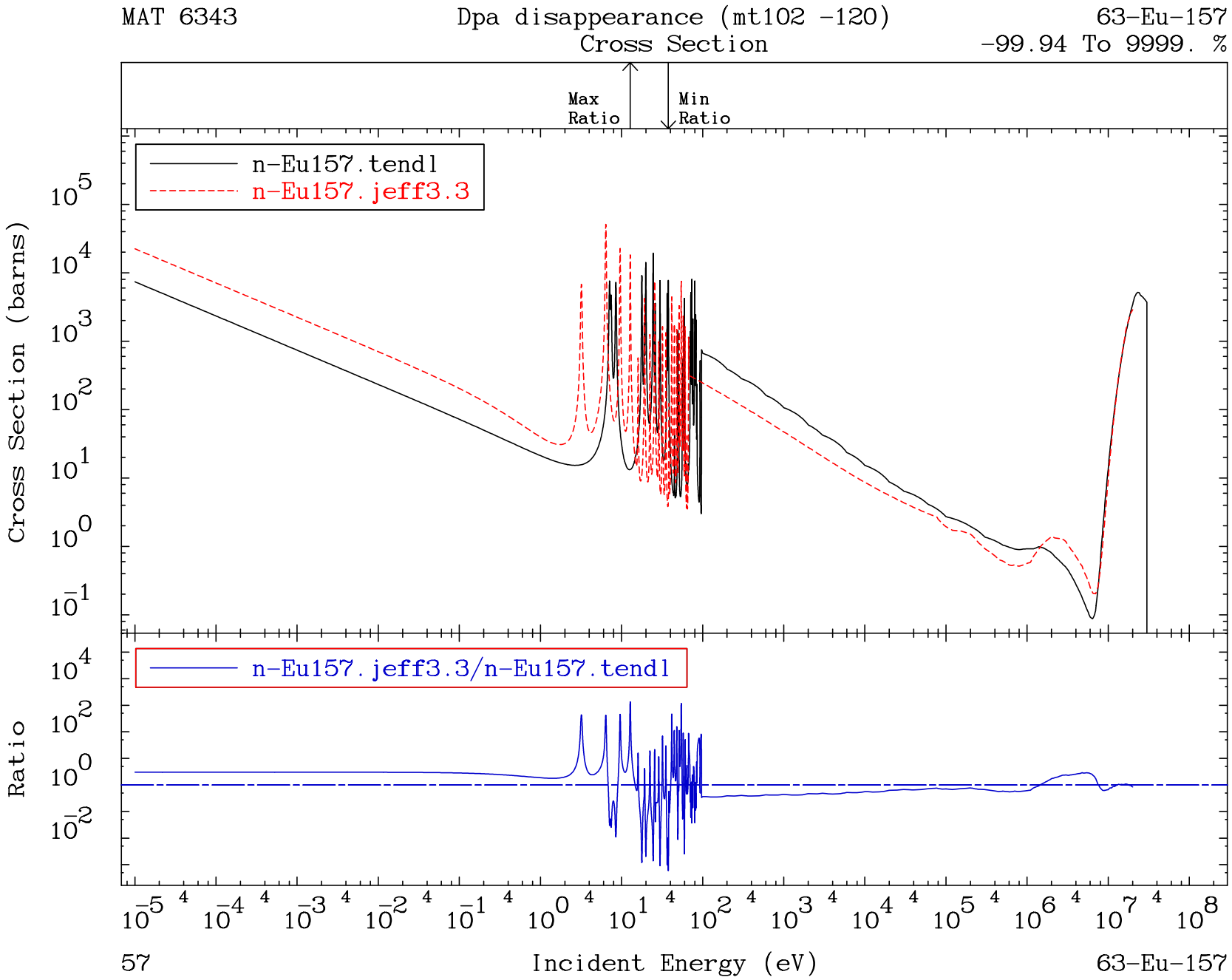

MAT 6343
Total photon (eV-barns)
Cross Section
63-Eu-157
-99.94 To 9999. %
Max Ratio
Min Ratio
n-Eu157.tendl
n-Eu157.jeff3.3
Cross Section (barns)
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
Incident Energy (eV)
52
63-Eu-157


MAT 6343
Total kinematic kerma (high limit)
Cross Section
63-Eu-157
-99.94 To 9999. %
Max Ratio
Min Ratio
n-Eu157.tendl
n-Eu157.jeff3.3
Cross Section (barns)
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
Incident Energy (eV)
53
63-Eu-157


MAT 6343
Dpa total (eV-barns)
Cross Section
63-Eu-157
-99.94 To 9999. %
Max Ratio
Min Ratio
n-Eu157.tendl
n-Eu157.jeff3.3
Cross Section (barns)
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
Incident Energy (eV)
54
63-Eu-157


MAT 6343
Dpa elastic (mt2)
Cross Section
63-Eu-157
-73.66 To 20.25 %
Min Ratio
Max Ratio
n-Eu157.tendl Threshold 980.00 eV
n-Eu157.jeff3.3 Threshold 1.0000 keV
Cross Section (barns)
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
Incident Energy (eV)
55
63-Eu-157


MAT 6343
Dpa inelastic (mt51-91)
Cross Section
63-Eu-157
-100.0 To 205.0 %
Min Ratio
Max Ratio
n-Eu157.tendl Threshold 77.202 keV
n-Eu157.jeff3.3 Threshold 77.202 keV
Cross Section (barns)
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
Incident Energy (eV)
56
63-Eu-157


MAT 6343
Dpa disappearance (mt102 -120)
Cross Section
63-Eu-157
-99.94 To 9999. %
Max Ratio
Min Ratio
n-Eu157.tendl
n-Eu157.jeff3.3
Cross Section (barns)
n-Eu157.jeff3.3/n-Eu157.tendl
Ratio
Incident Energy (eV)
57
63-Eu-157