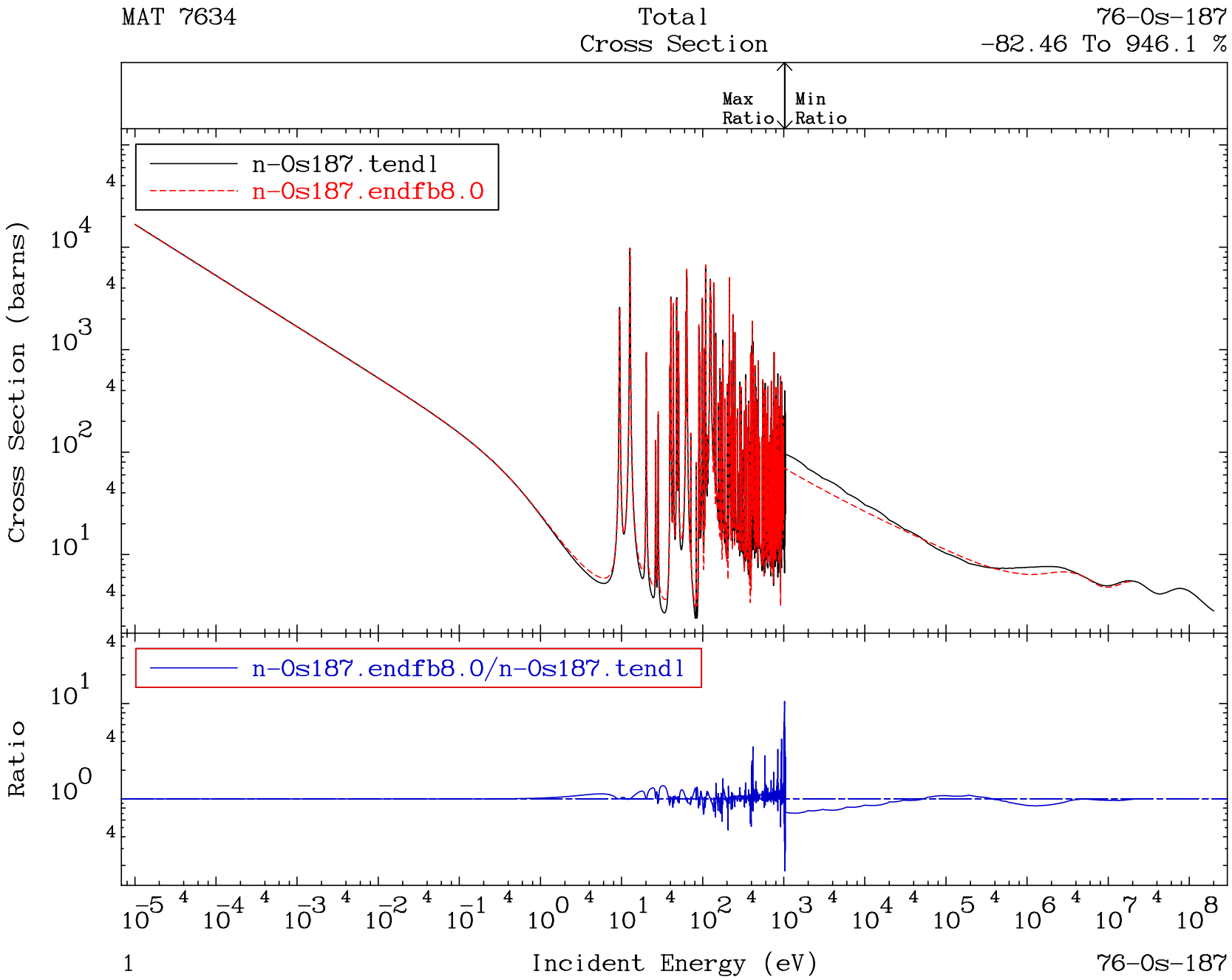
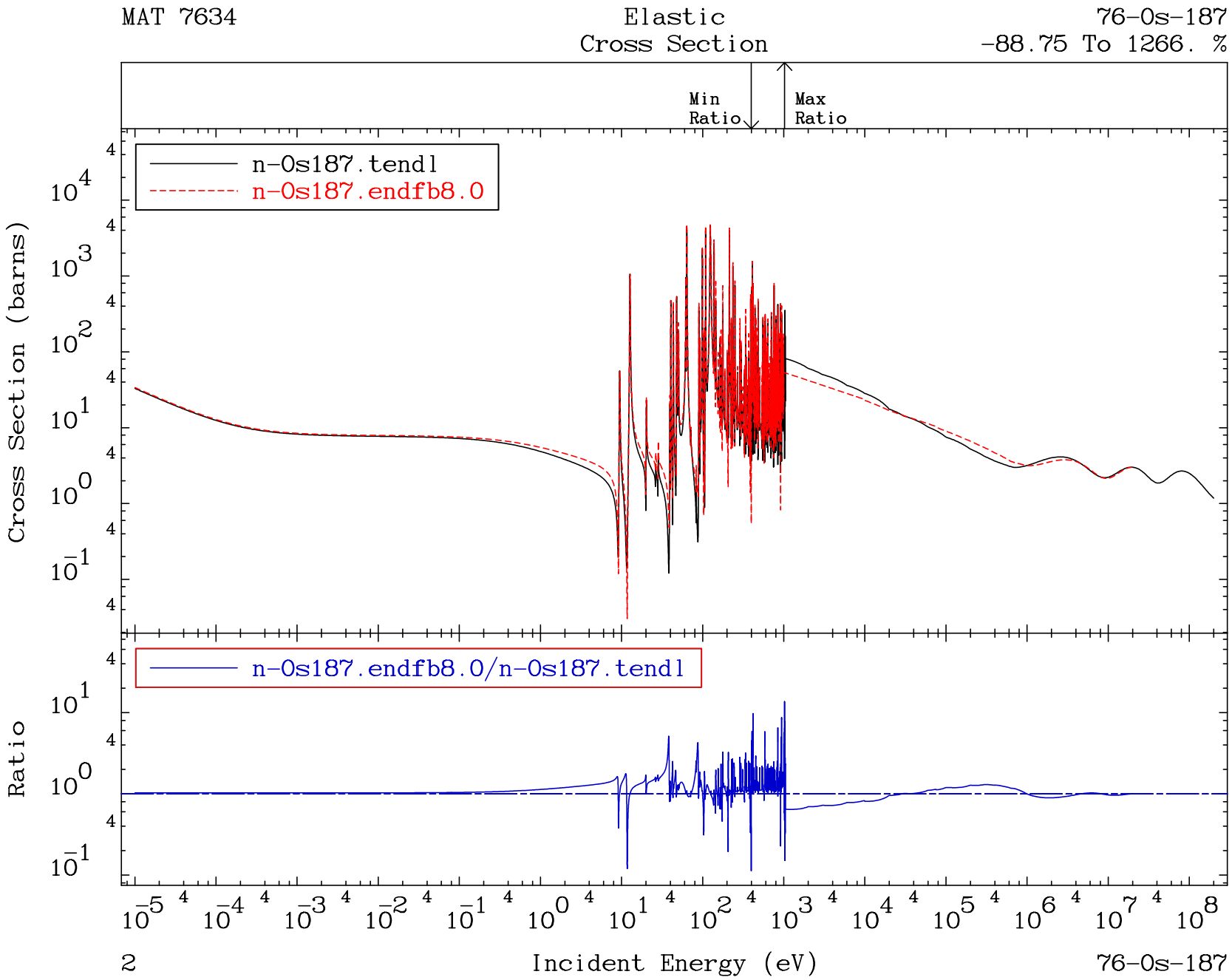
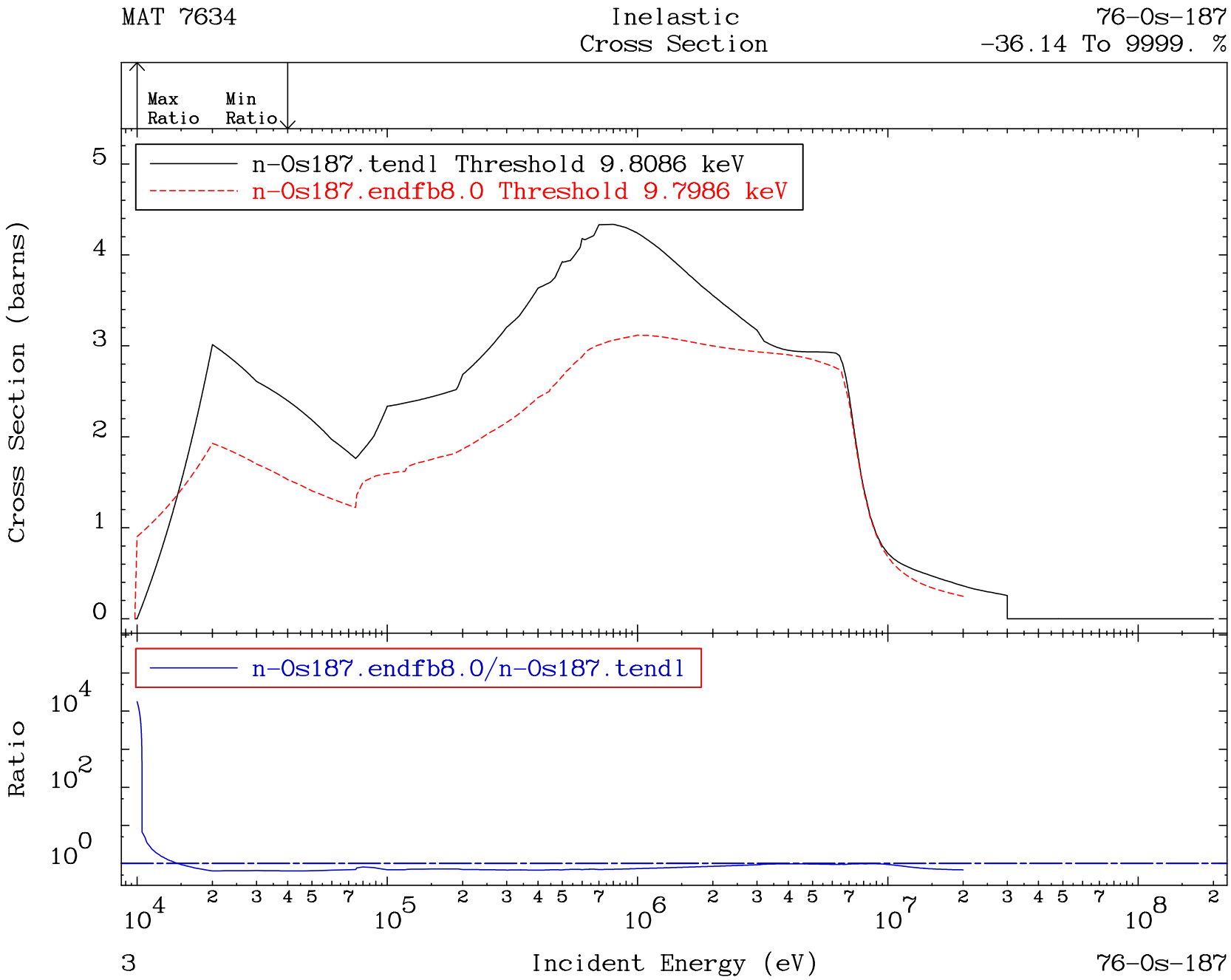
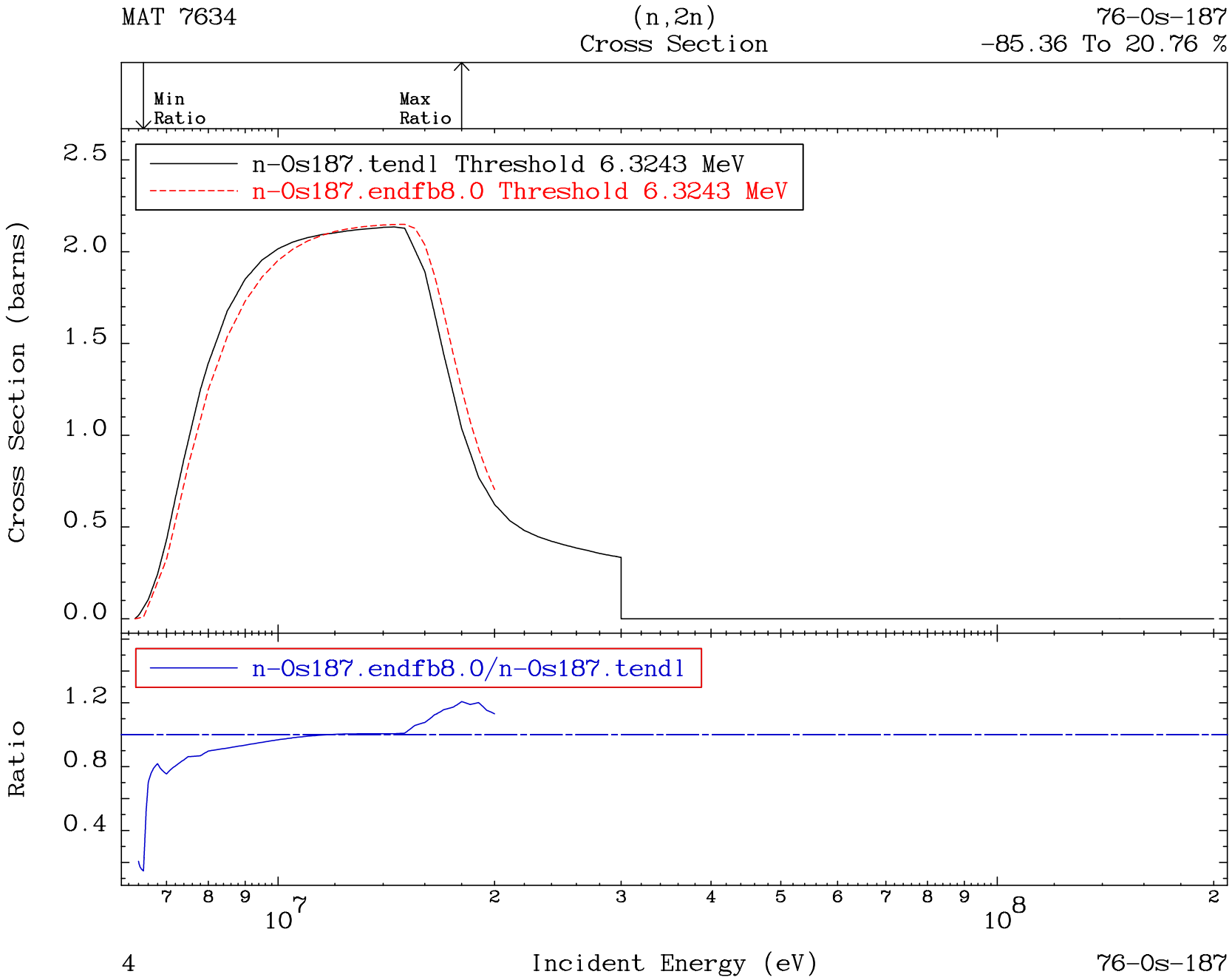
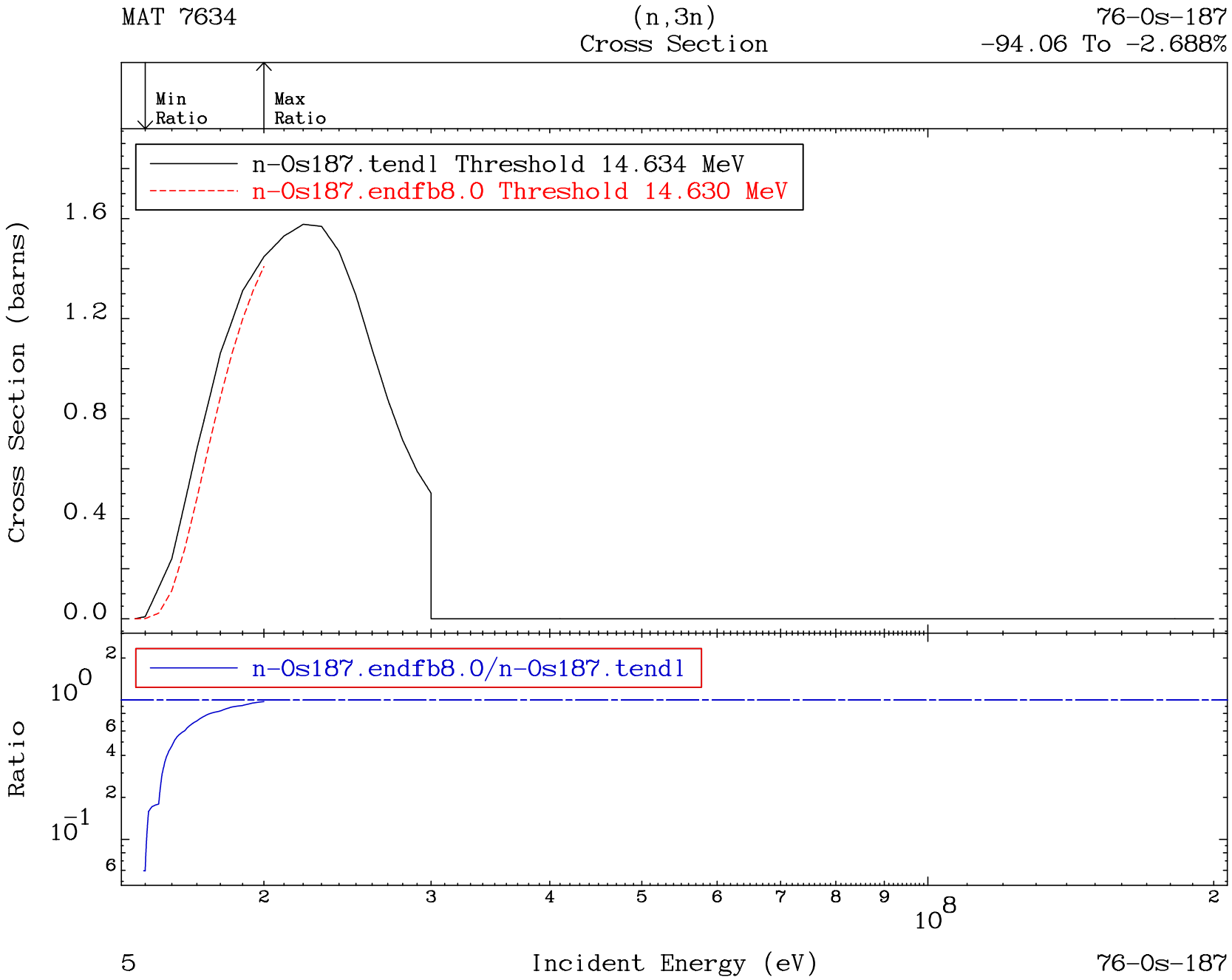
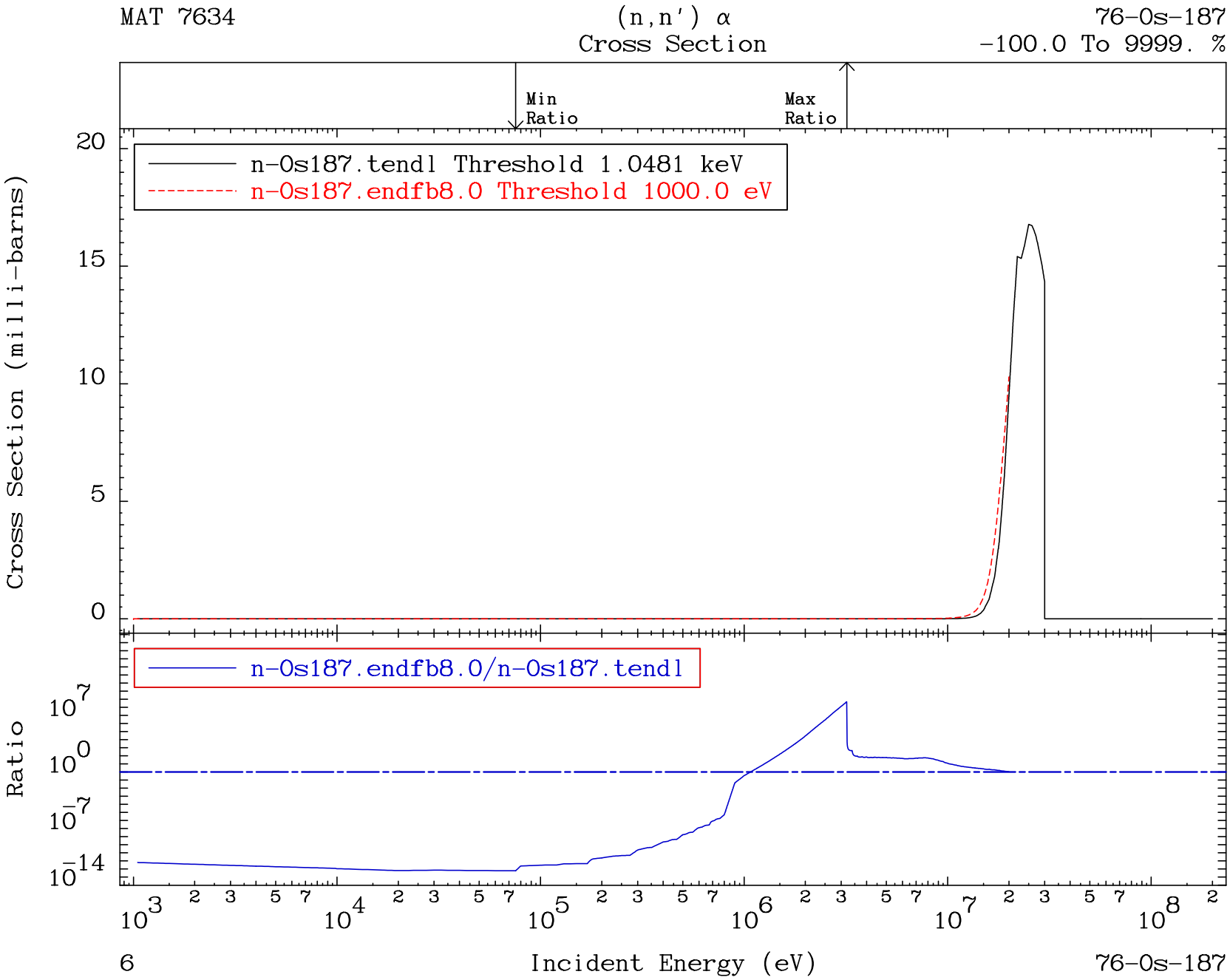

MAT 7634
Total
Cross Section
76-0s-187
-82.46 To 946.1 %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.endfb8.0
Cross Section (barns)
n-0s187.endfb8.0/n-0s187.tendl
Ratio
Incident Energy (eV)
1
76-0s-187

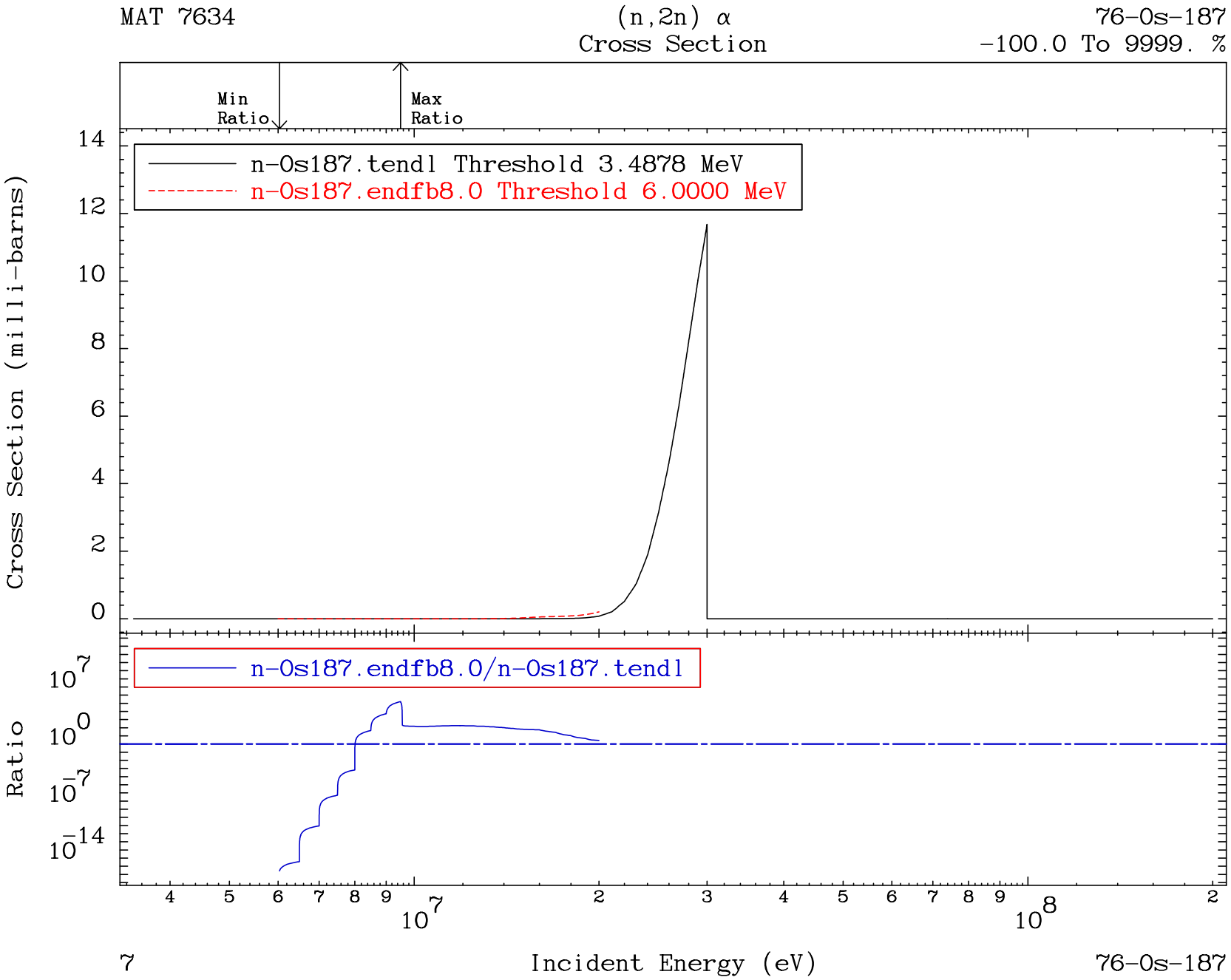

MAT 7634
Elastic
Cross Section
76-0s-187
-88.75 To 1266. %
Min
Ratio
Max
Ratio
n-0s187.tendl
n-0s187.endfb8.0
Cross Section (barns)
n-0s187.endfb8.0/n-0s187.tendl
Ratio
Incident Energy (eV)
2
76-0s-187

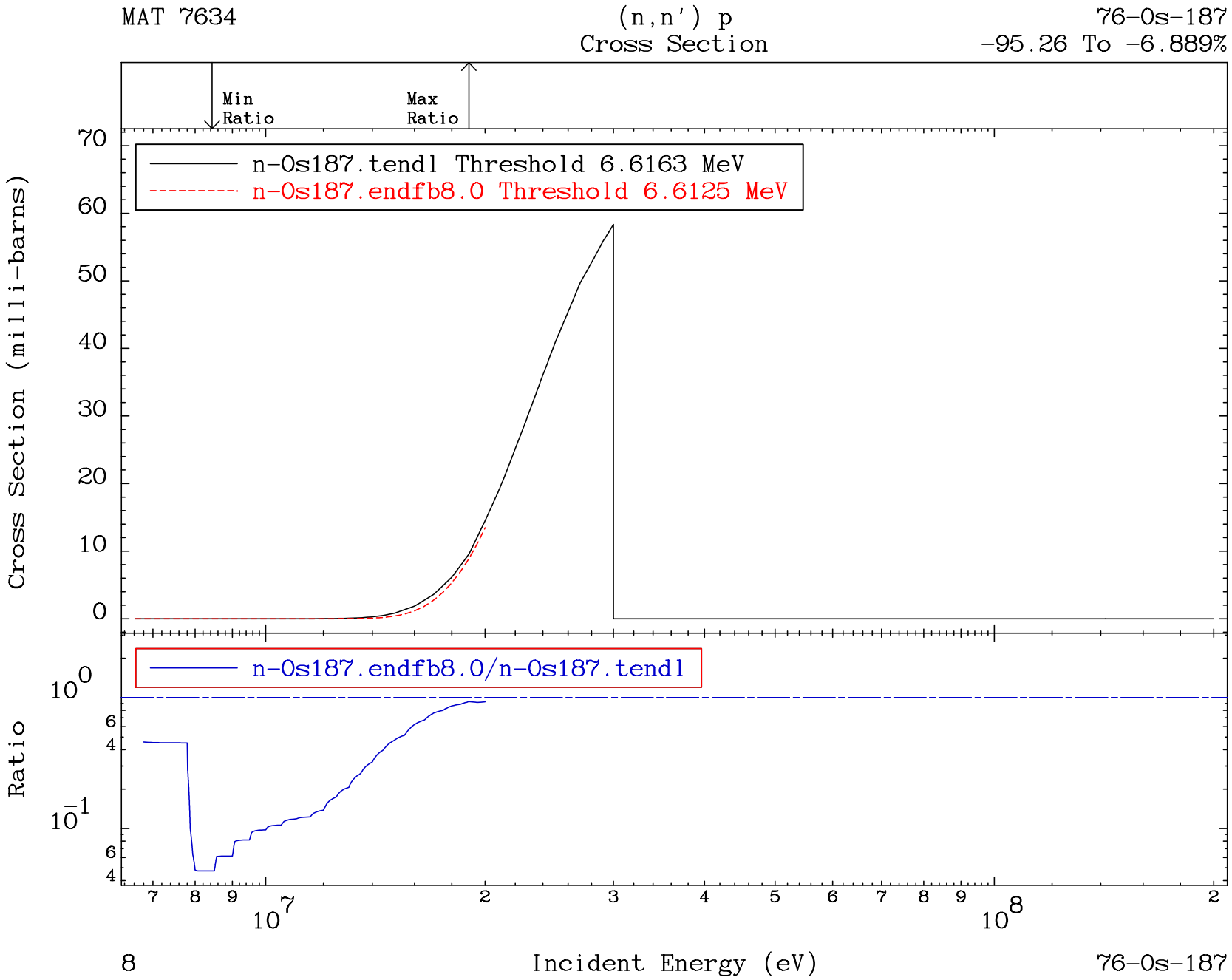

MAT 7634
Inelastic
Cross Section
76-0s-187
-36.14 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 9.8086 keV
n-0s187.endfb8.0 Threshold 9.7986 keV
Cross Section (barns)
n-0s187.endfb8.0/n-0s187.tendl
Ratio
Incident Energy (eV)
3
76-0s-187

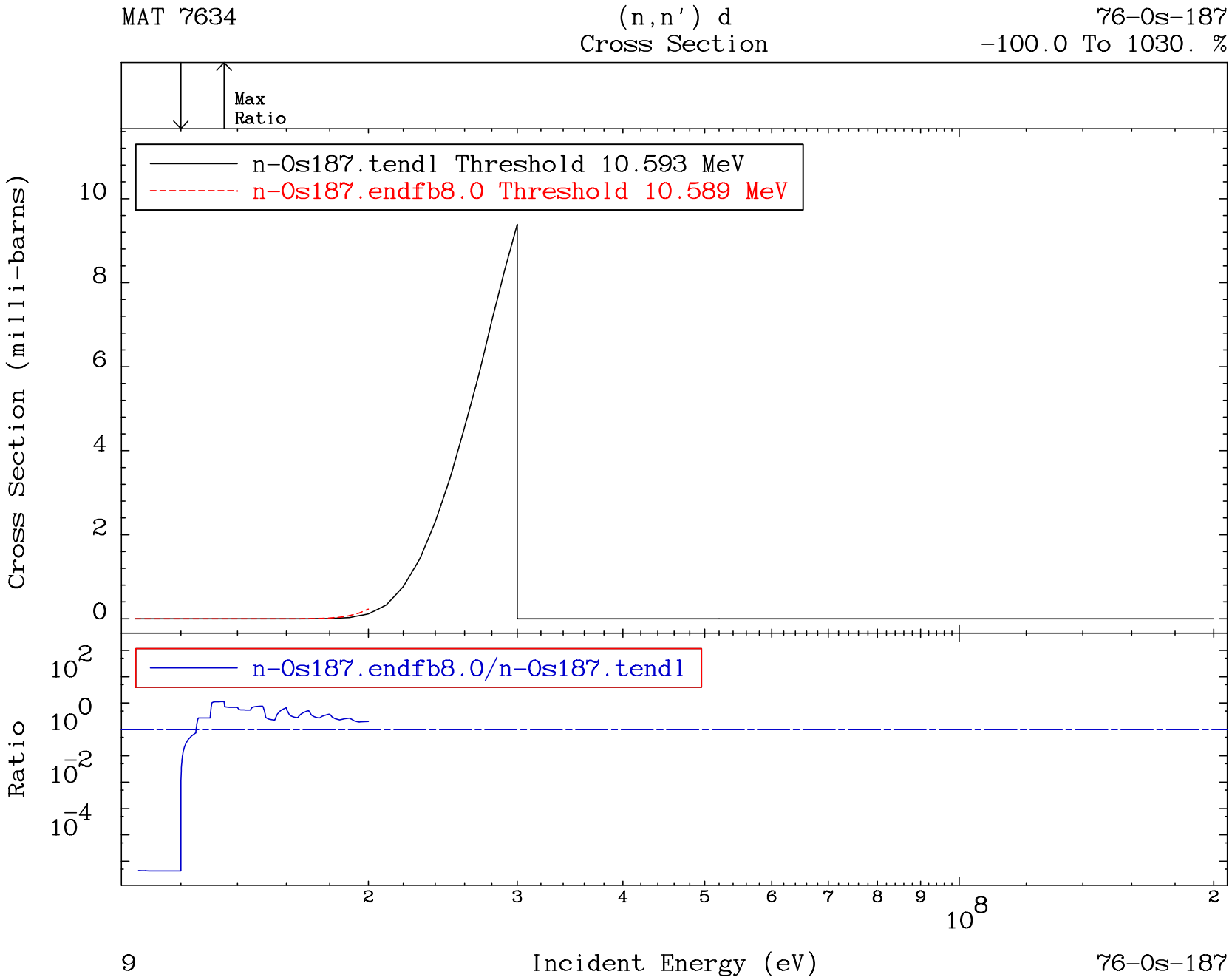

MAT 7634
(n,2n)
Cross Section
76-0s-187
-85.36 To 20.76 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 6.3243 MeV
n-0s187.endfb8.0 Threshold 6.3243 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
1.2
0.8
0.4
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
76-0s-187

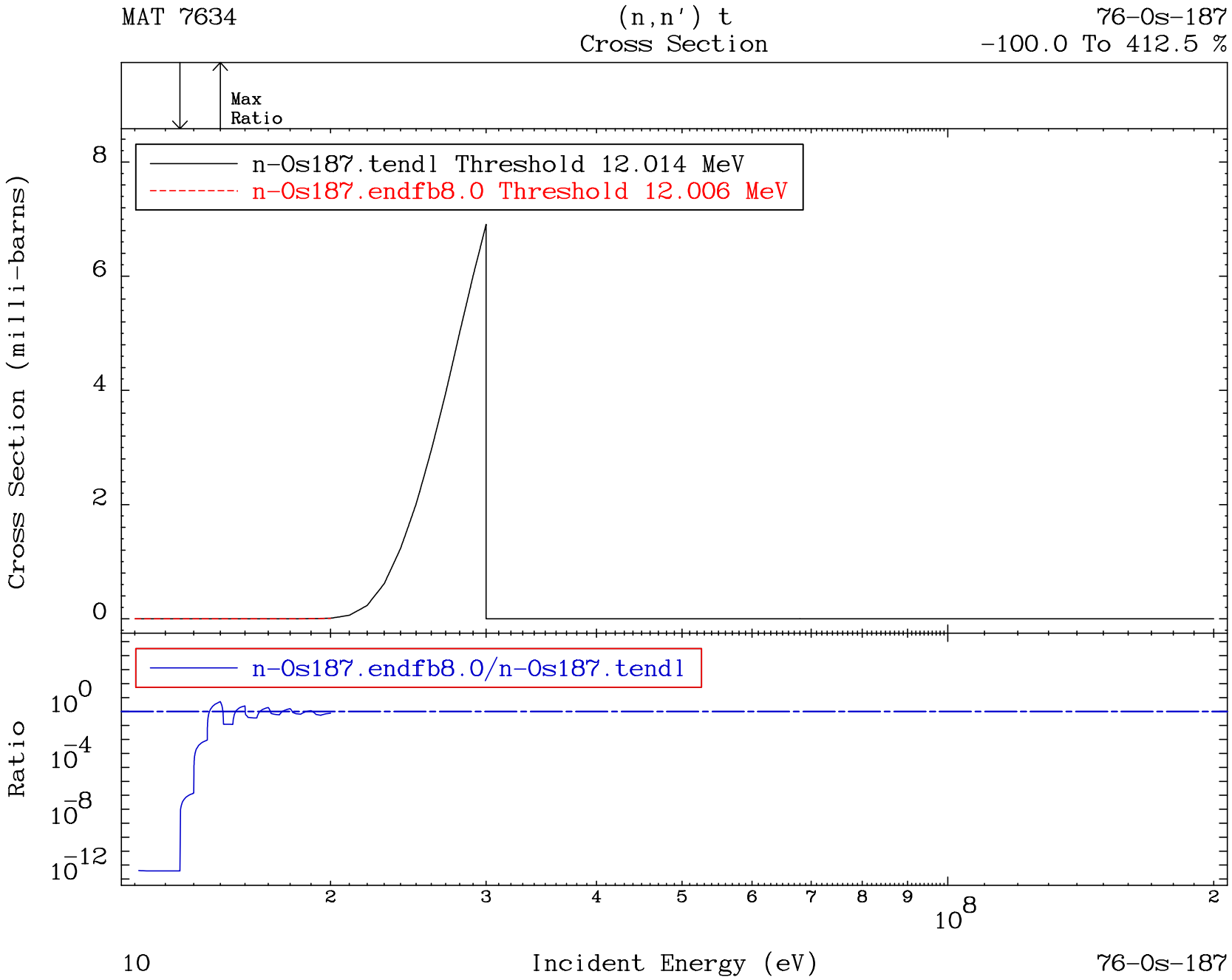

MAT 7634
(n,3n)
Cross Section
76-0s-187
-94.06 To -2.688%
Min Ratio
Max Ratio
n-0s187.tendl Threshold 14.634 MeV
n-0s187.endfb8.0 Threshold 14.630 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
2
10^0
6
4
2
10^-1
6
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
76-0s-187

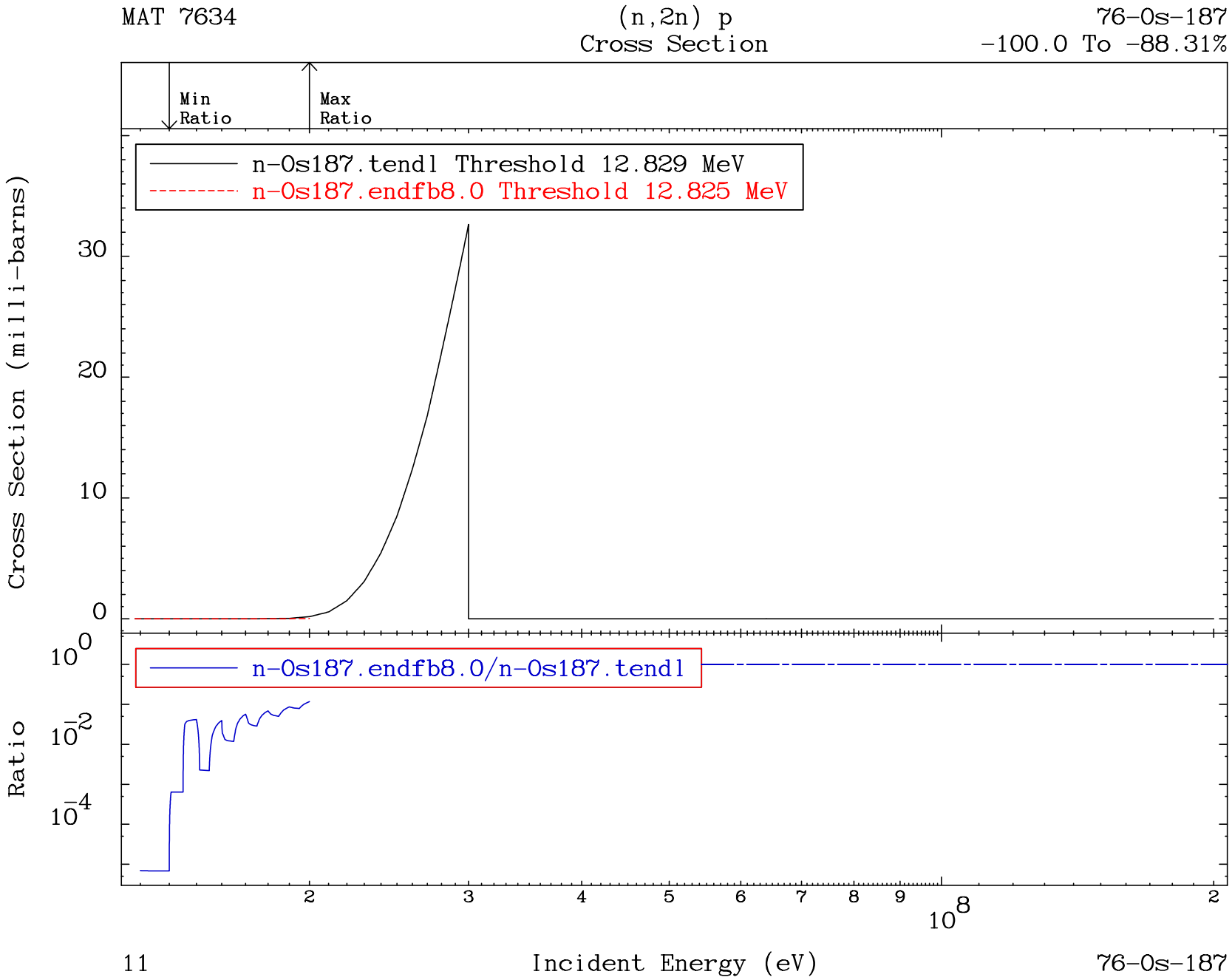

MAT 7634
(n,n') α
Cross Section
76-0s-187
-100.0 To 9999. %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 1.0481 keV
n-0s187.endfb8.0 Threshold 1000.0 eV
Cross Section (milli-barns)
20
15
10
5
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^7
10^0
10^-7
10^-14
10^3
10^4
10^5
10^6
10^7
10^8
6
Incident Energy (eV)
76-0s-187

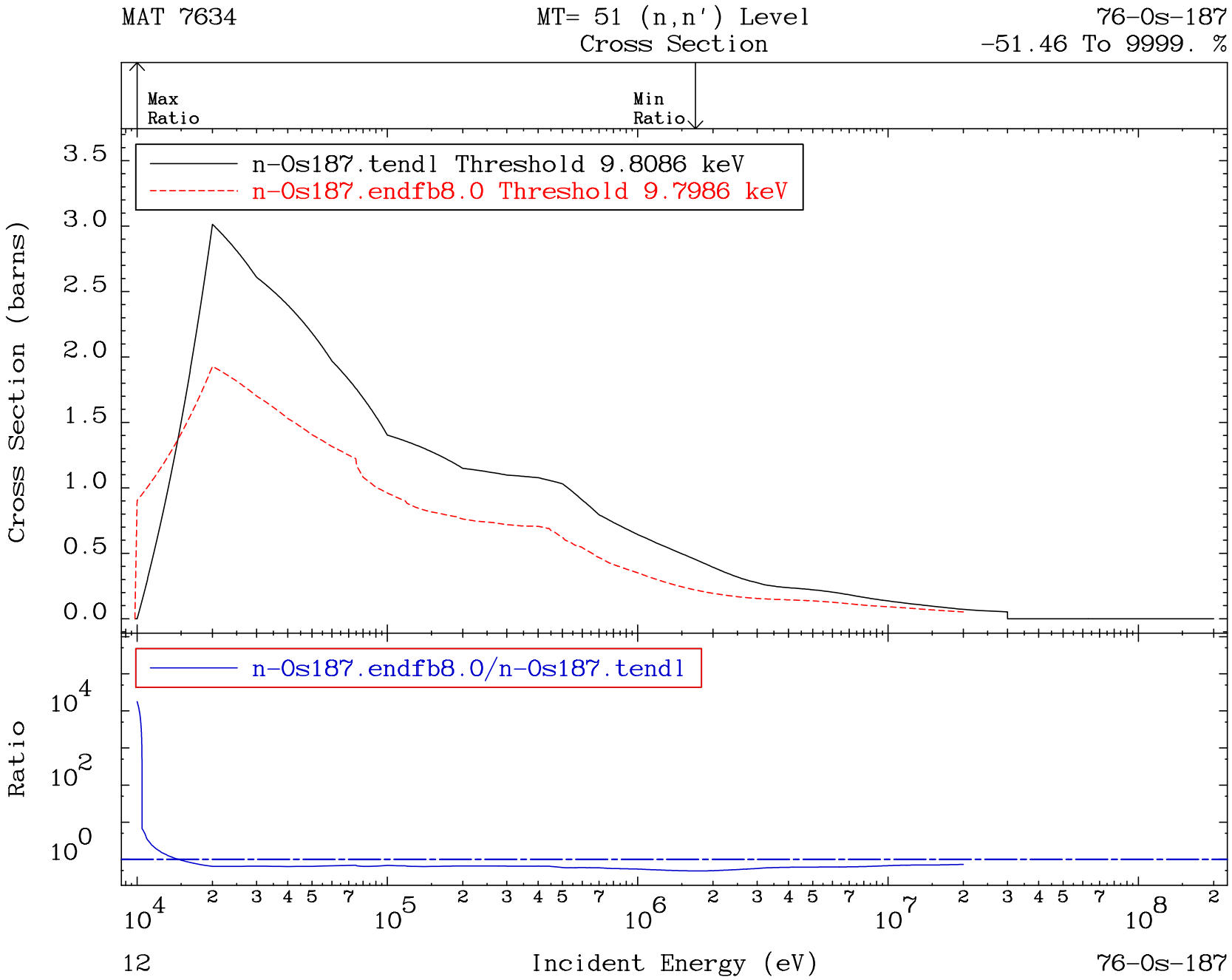

MAT 7634
(n,2n) α
Cross Section
76-0s-187
-100.0 To 9999. %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 3.4878 MeV
n-0s187.endfb8.0 Threshold 6.0000 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^7
10^0
10^-7
10^-14
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
76-0s-187

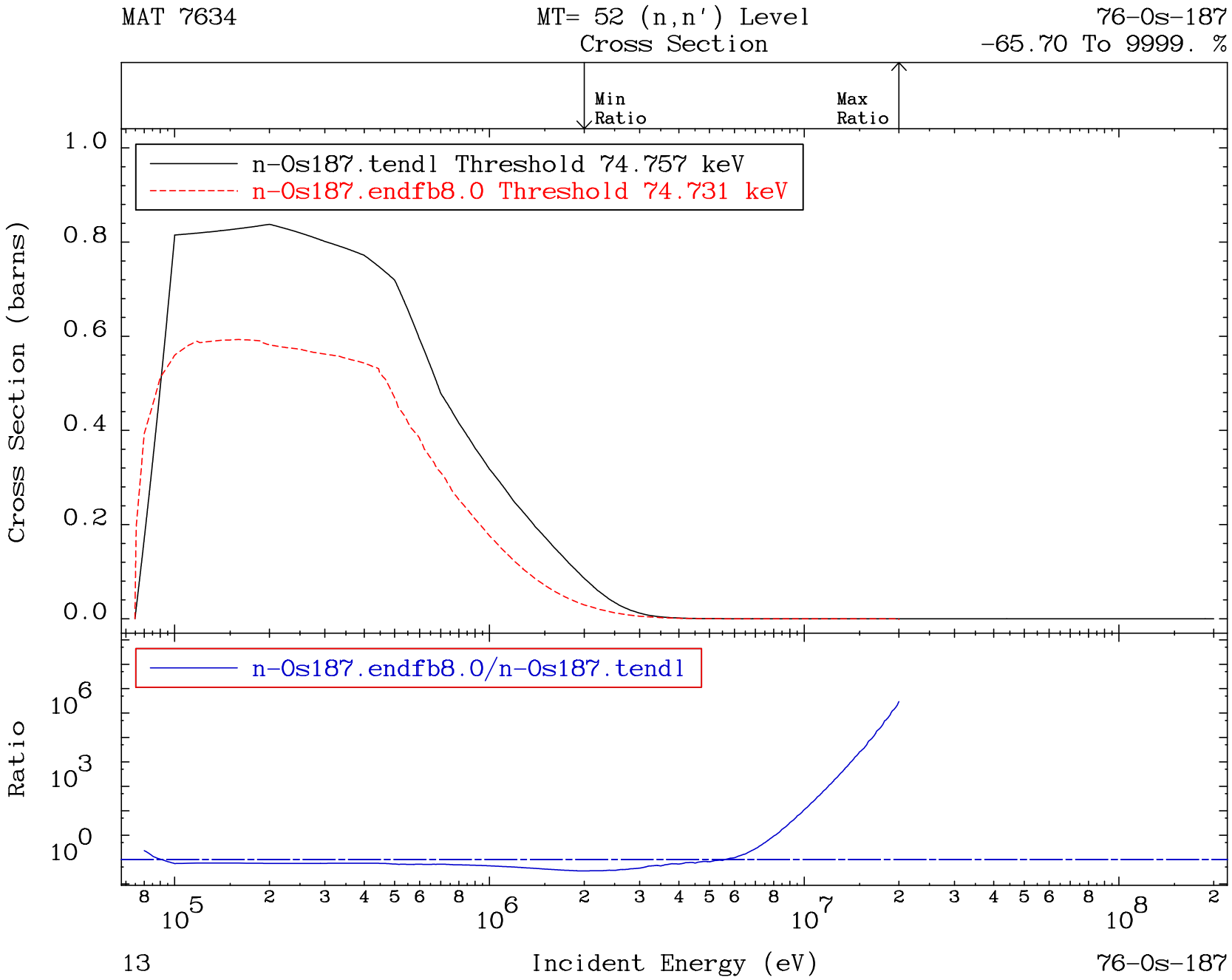

MAT 7634
(n,n') p
Cross Section
76-0s-187
-95.26 To -6.889%
Min Ratio
Max Ratio
n-0s187.tendl Threshold 6.6163 MeV
n-0s187.endfb8.0 Threshold 6.6125 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^0
10^-1
6
4
6
4
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
8
Incident Energy (eV)
76-0s-187

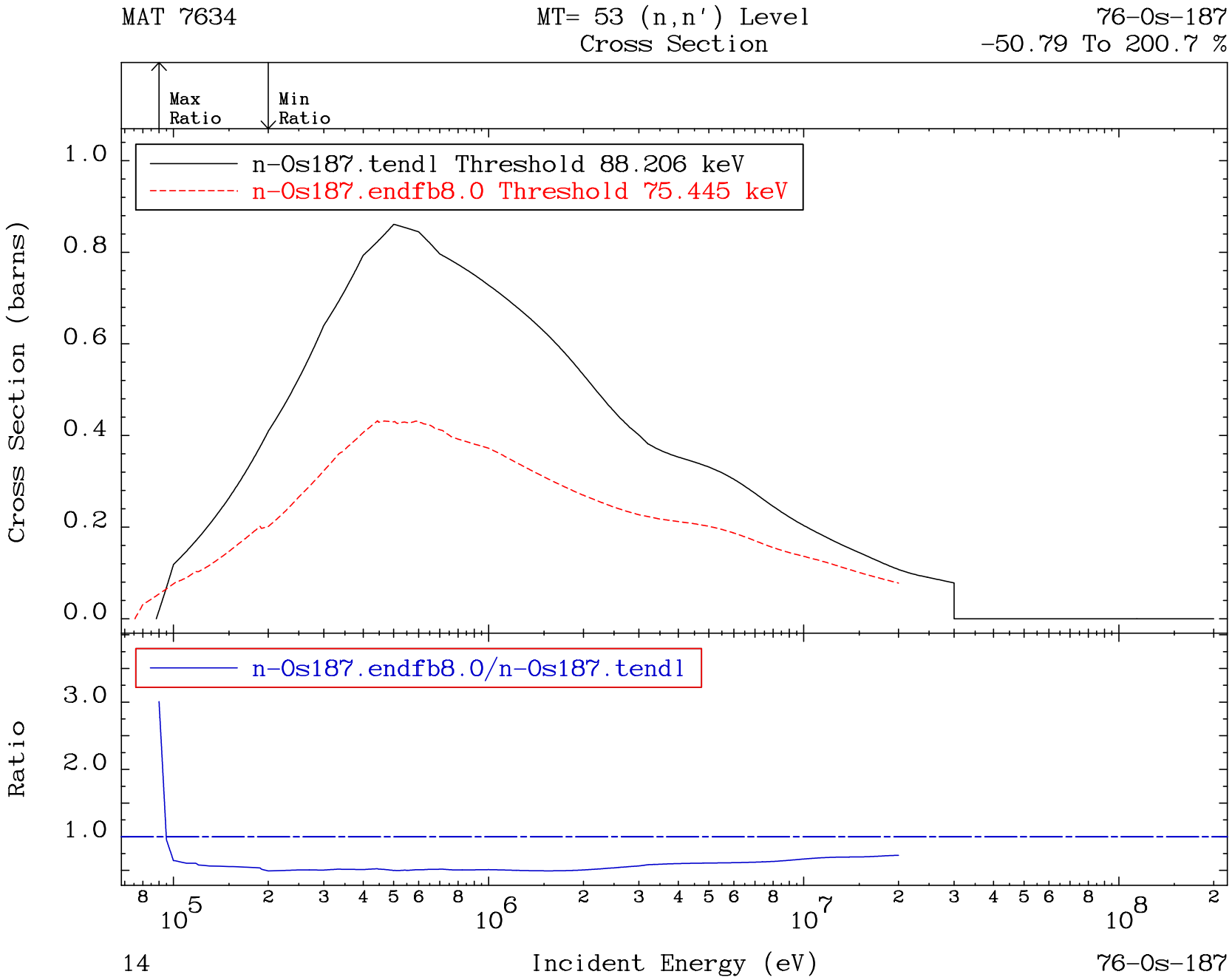

MAT 7634
(n,n') d
Cross Section
76-0s-187
-100.0 To 1030. %
Max
Ratio
n-0s187.tendl Threshold 10.593 MeV
n-0s187.endfb8.0 Threshold 10.589 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^2
10^0
10^-2
10^-4
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
76-0s-187

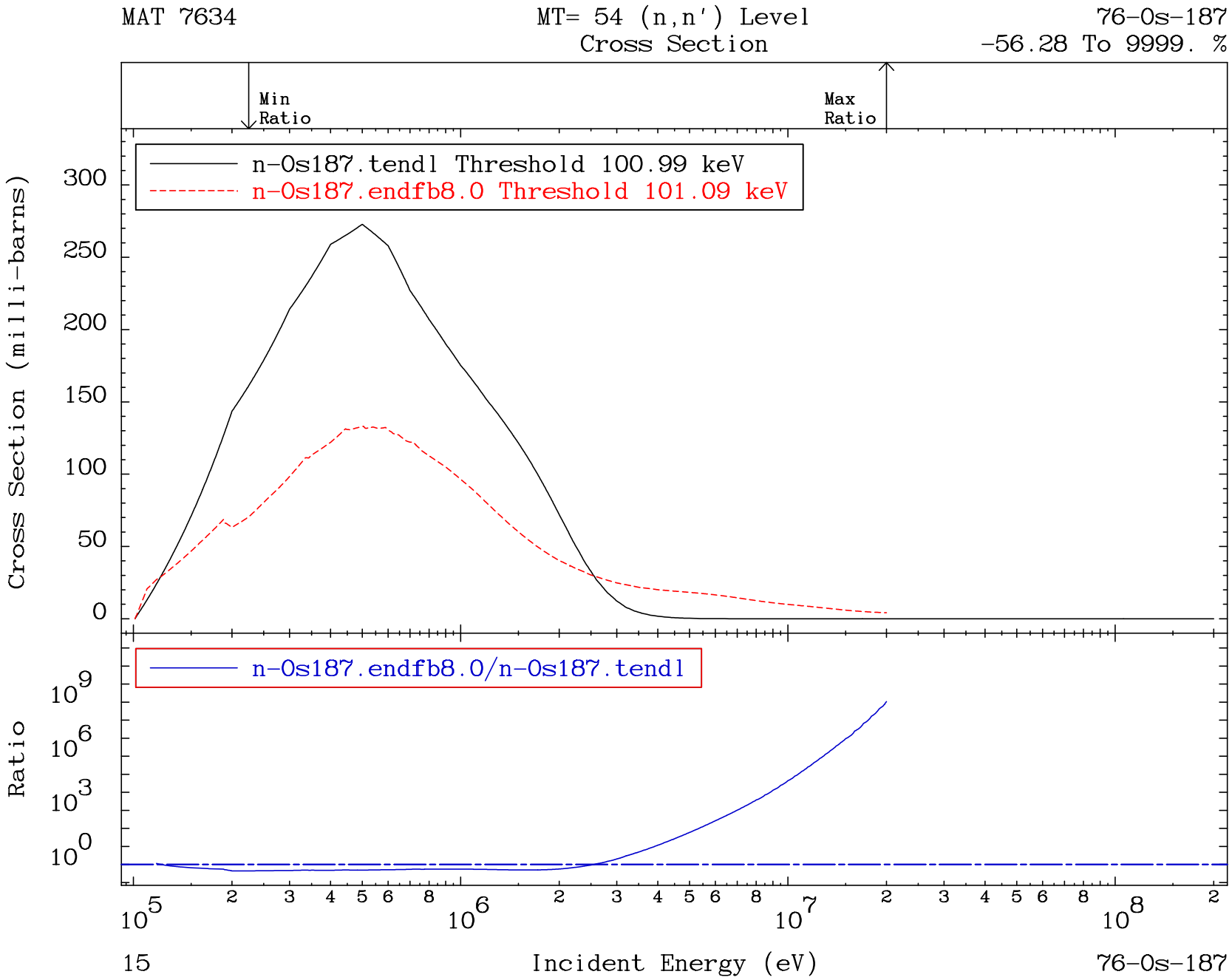

MAT 7634
(n,n') t
Cross Section
76-0s-187
-100.0 To 412.5 %
Max
Ratio
n-0s187.tendl Threshold 12.014 MeV
n-0s187.endfb8.0 Threshold 12.006 MeV
Cross Section (milli-barns)
8
6
4
2
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^0
10^-4
10^-8
10^-12
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
76-0s-187

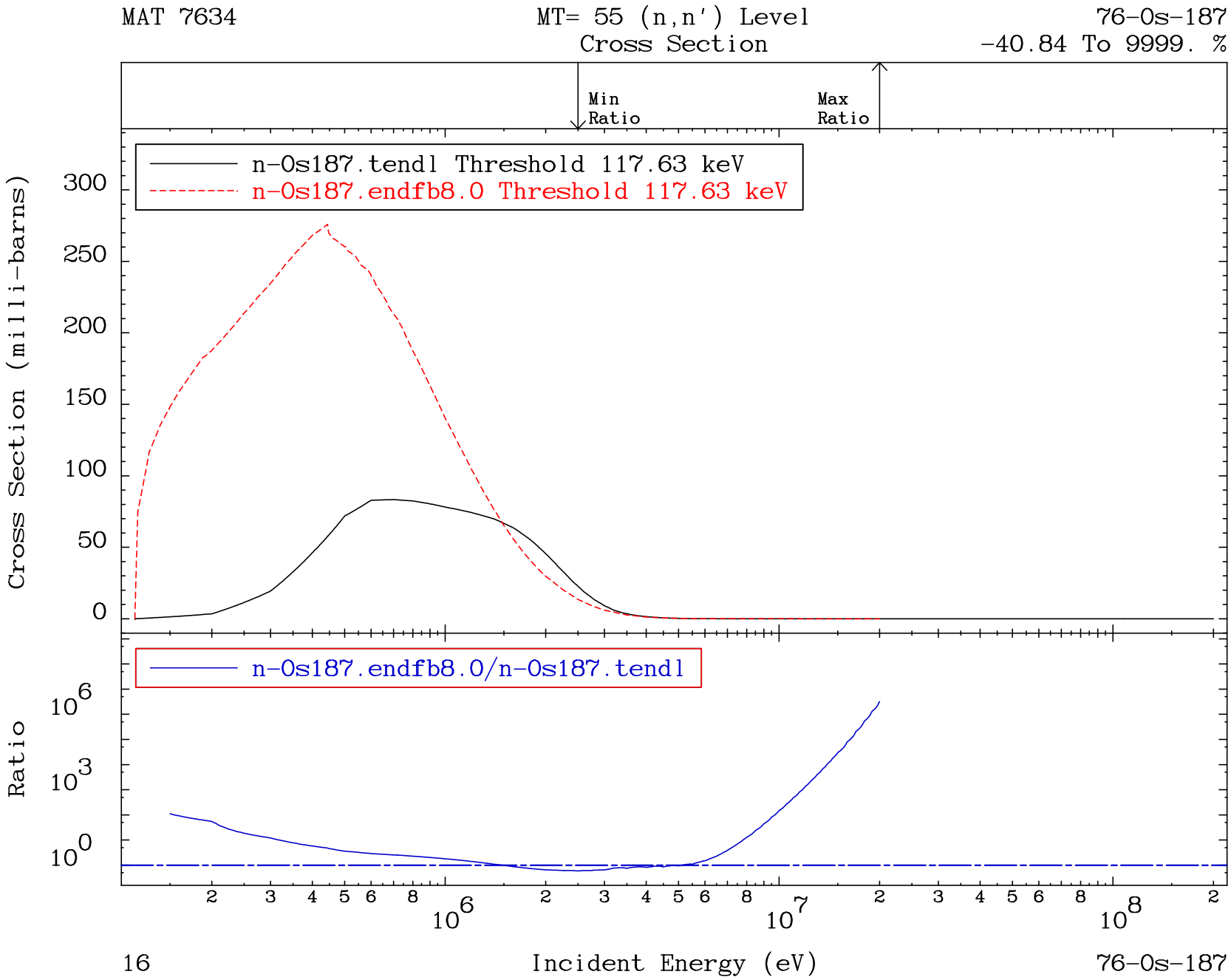

MAT 7634
(n,2n) p
Cross Section
76-0s-187
-100.0 To -88.31%
Min Ratio
Max Ratio
n-0s187.tendl Threshold 12.829 MeV
n-0s187.endfb8.0 Threshold 12.825 MeV
Cross Section (milli-barns)
30
20
10
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^0
10^-2
10^-4
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
76-0s-187

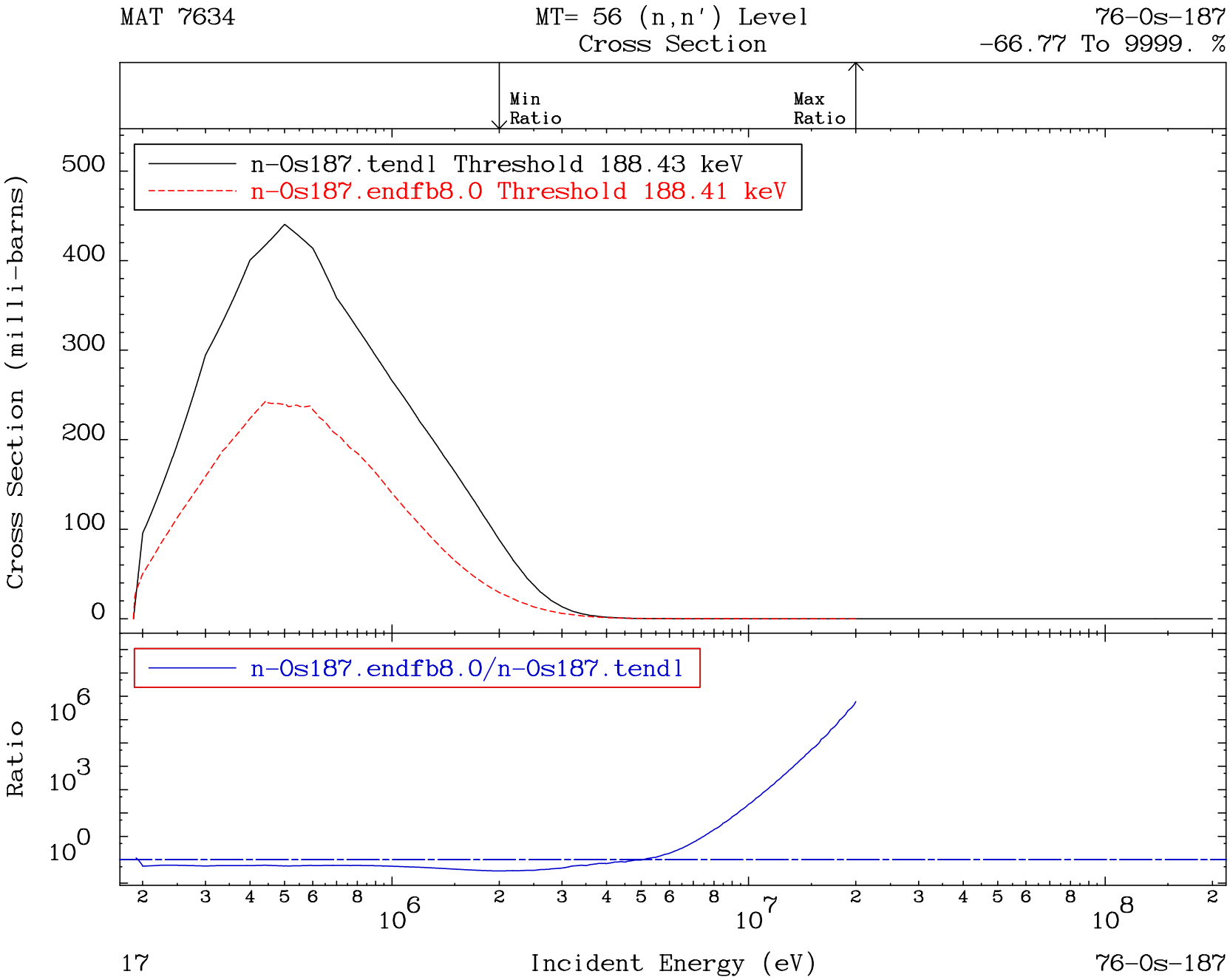

MAT 7634
MT= 51 (n,n') Level
Cross Section
76-0s-187
-51.46 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 9.8086 keV
n-0s187.endfb8.0 Threshold 9.7986 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^4
10^2
10^0
10^4
10^5
10^6
10^7
10^8
12
Incident Energy (eV)
76-0s-187

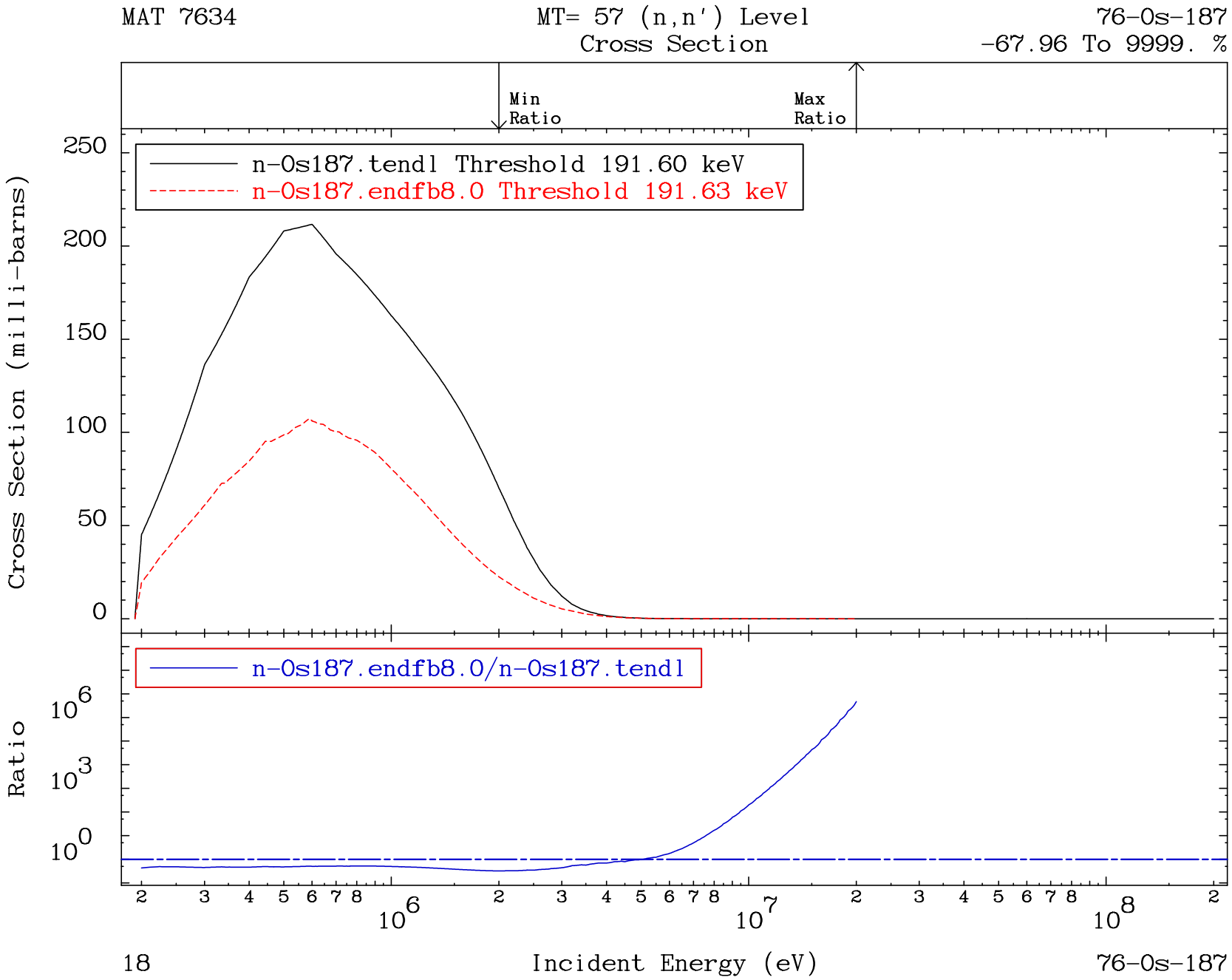

MAT 7634
MT= 52 (n,n') Level
Cross Section
76-0s-187
-65.70 To 9999. %
Min
Ratio
Max
Ratio
n-0s187.tendl Threshold 74.757 keV
n-0s187.endfb8.0 Threshold 74.731 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^6
10^3
10^0
8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
13
Incident Energy (eV)
76-0s-187

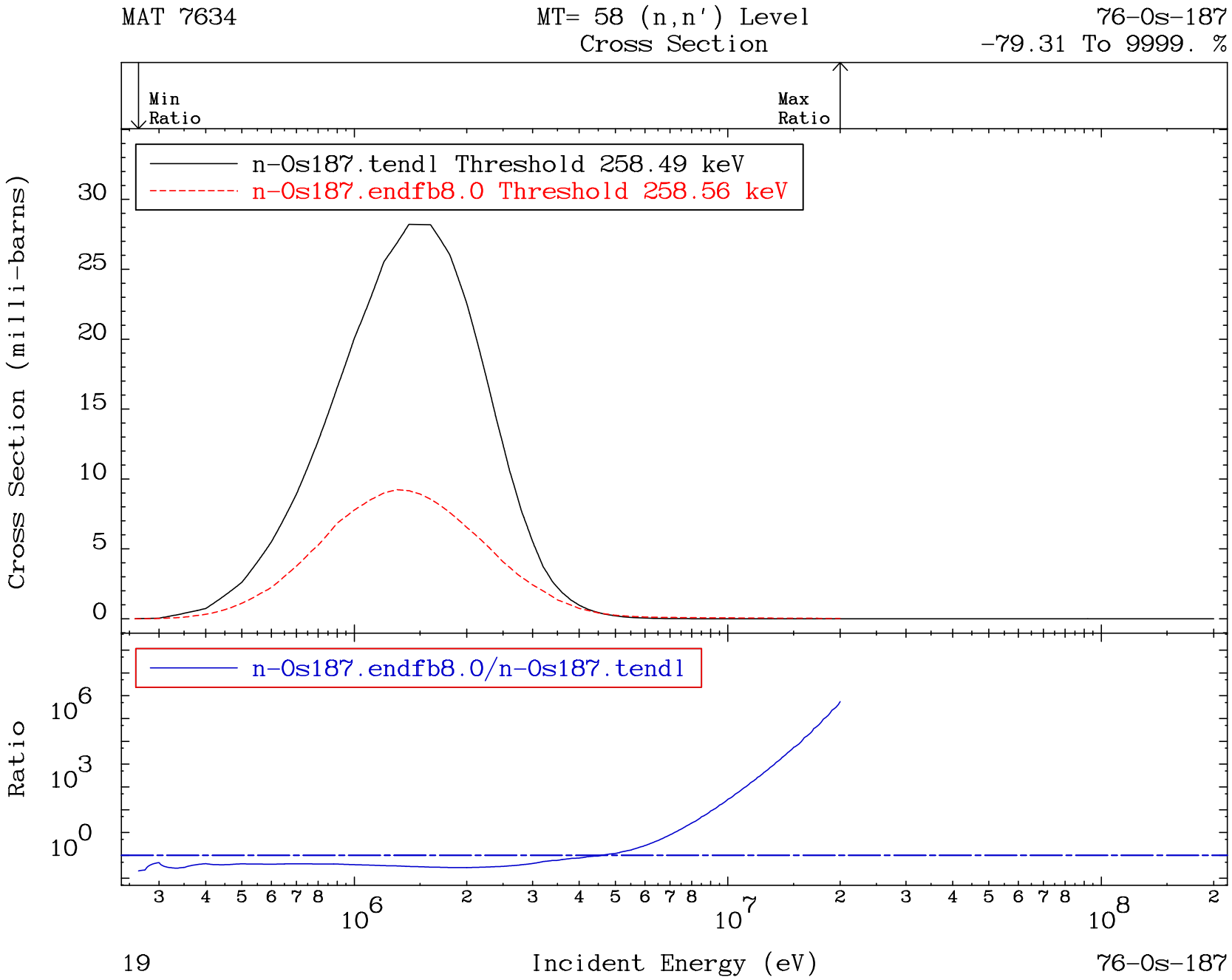

MAT 7634
MT= 53 (n,n') Level
Cross Section
76-0s-187
-50.79 To 200.7 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 88.206 keV
n-0s187.endfb8.0 Threshold 75.445 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
3.0
2.0
1.0
8 2 3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
14
Incident Energy (eV)
76-0s-187

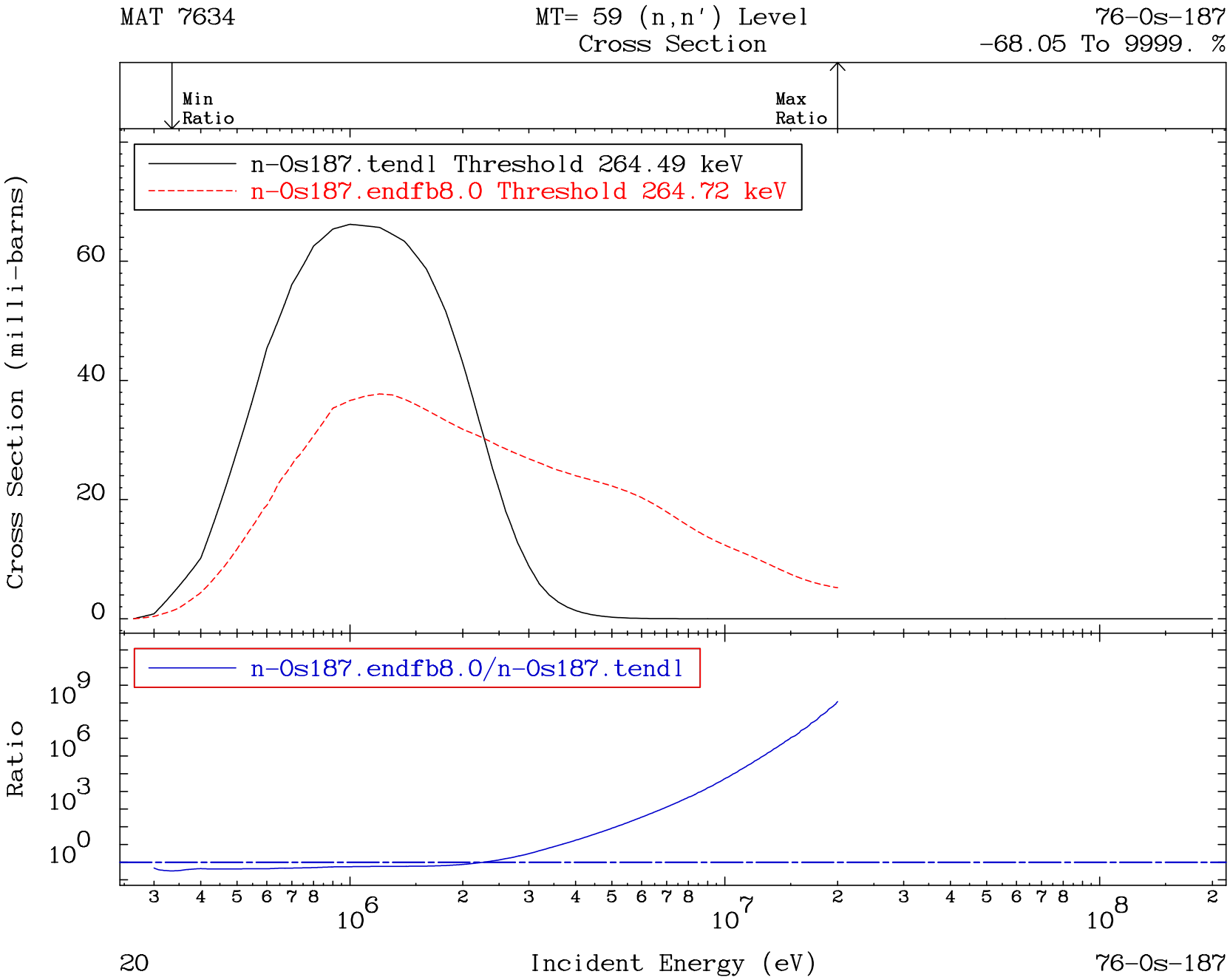

MAT 7634
MT= 54 (n,n') Level
Cross Section
76-0s-187
-56.28 To 9999. %
Min
Ratio
Max
Ratio
n-0s187.tendl Threshold 100.99 keV
n-0s187.endfb8.0 Threshold 101.09 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^9
10^6
10^3
10^0
10^5
10^6
10^7
10^8
Incident Energy (eV)
15
76-0s-187

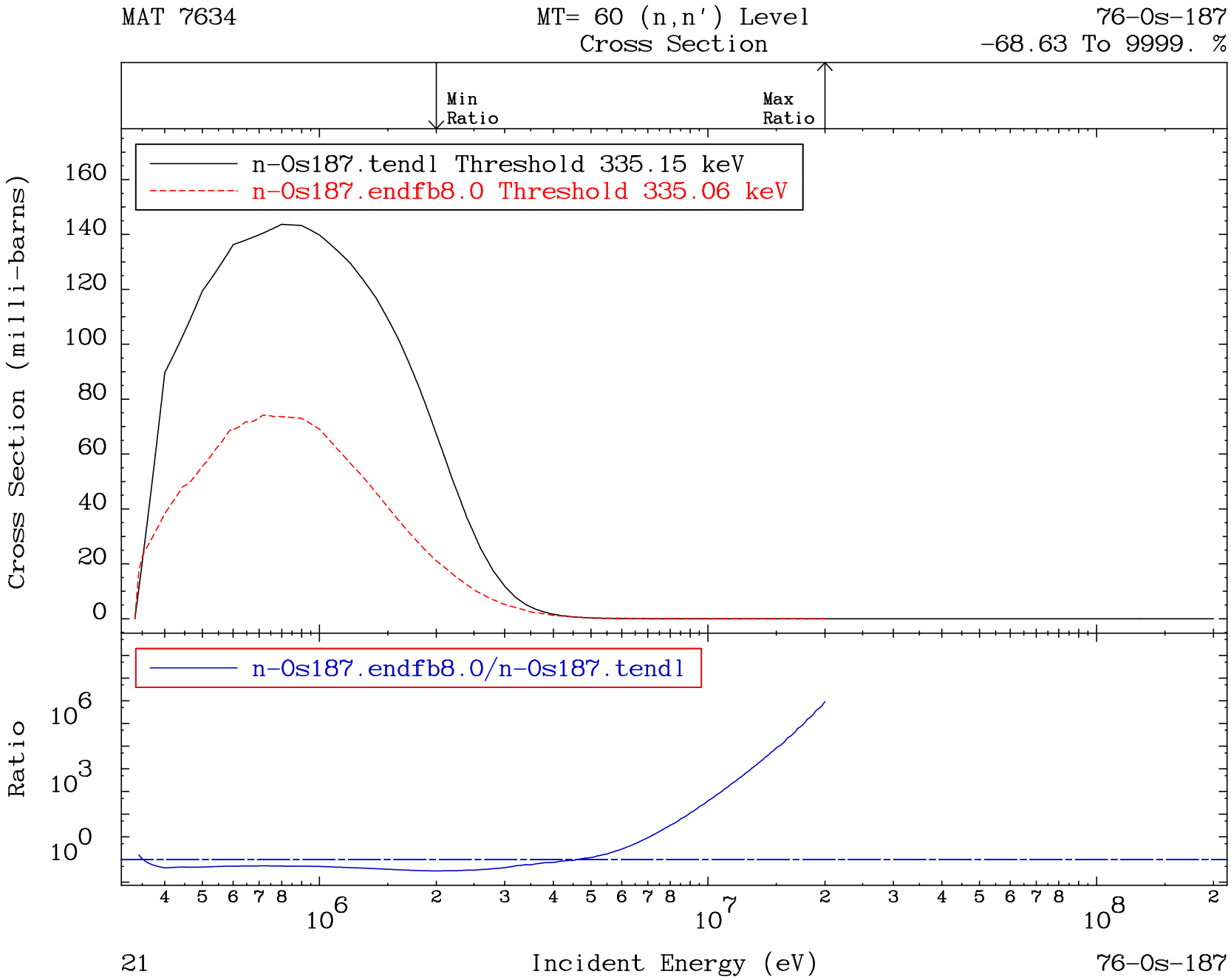

MAT 7634
MT= 55 (n,n') Level
Cross Section
76-0s-187
-40.84 To 9999. %
Min
Ratio
Max
Ratio
n-0s187.tendl Threshold 117.63 keV
n-0s187.endfb8.0 Threshold 117.63 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^6
10^3
10^0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
16
Incident Energy (eV)
76-0s-187

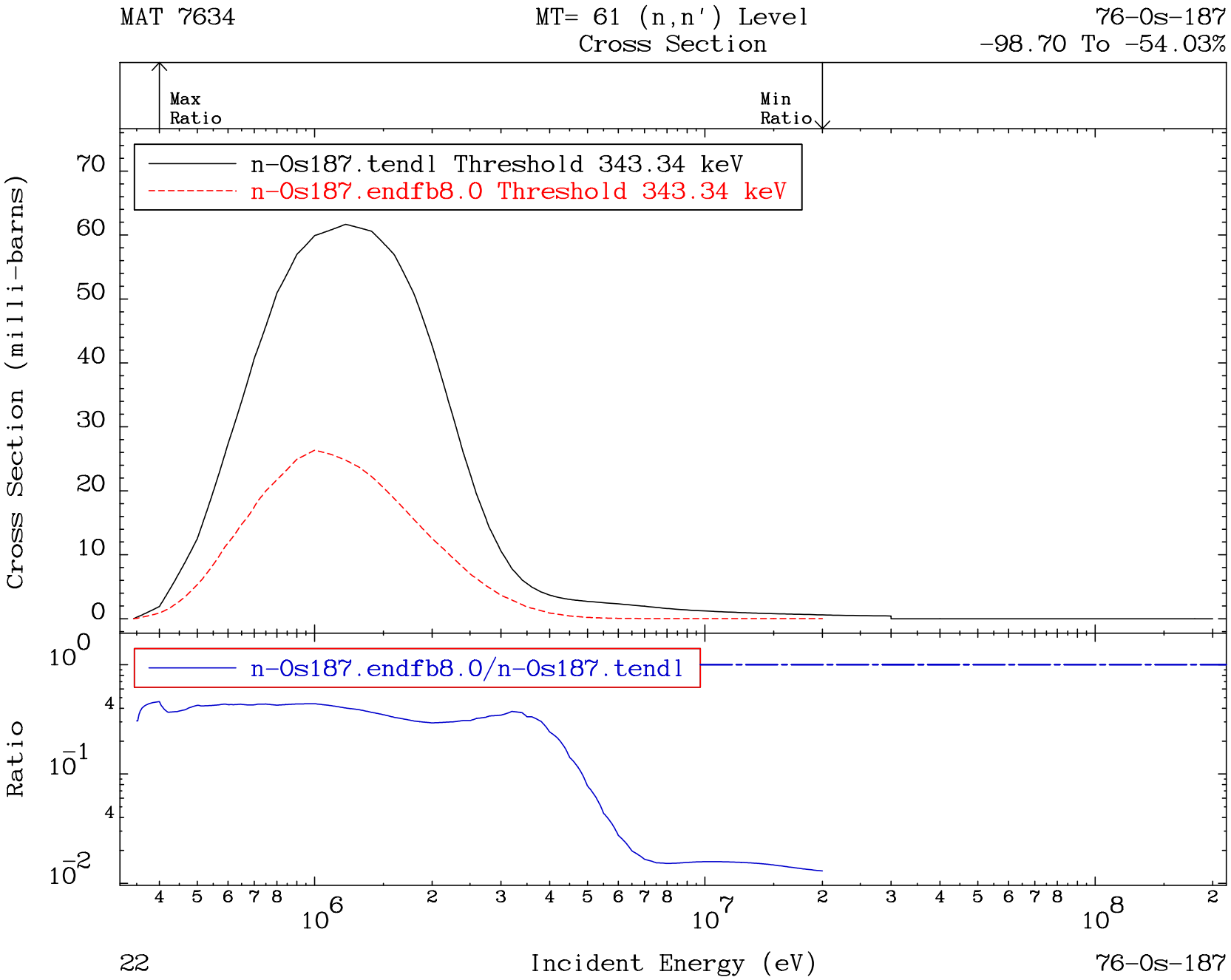

MAT 7634
MT= 56 (n,n') Level
Cross Section
76-0s-187
-66.77 To 9999. %
Min
Ratio
Max
Ratio
n-0s187.tendl Threshold 188.43 keV
n-0s187.endfb8.0 Threshold 188.41 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^6
10^3
10^0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
17
Incident Energy (eV)
76-0s-187

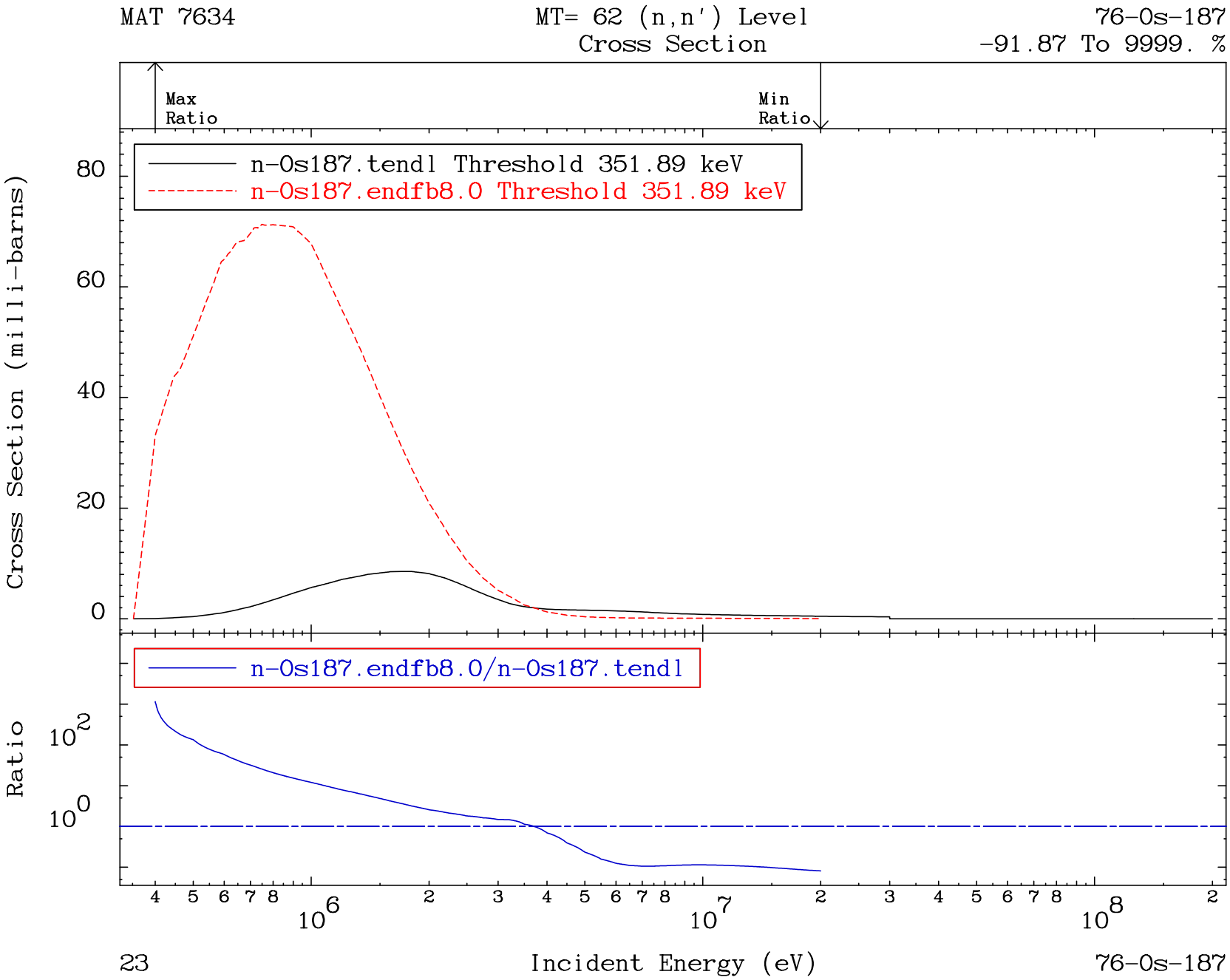

MAT 7634
MT= 57 (n,n') Level
Cross Section
76-0s-187
-67.96 To 9999. %
Min
Ratio
Max
Ratio
n-0s187.tendl Threshold 191.60 keV
n-0s187.endfb8.0 Threshold 191.63 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^6
10^3
10^0
2 3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
76-0s-187

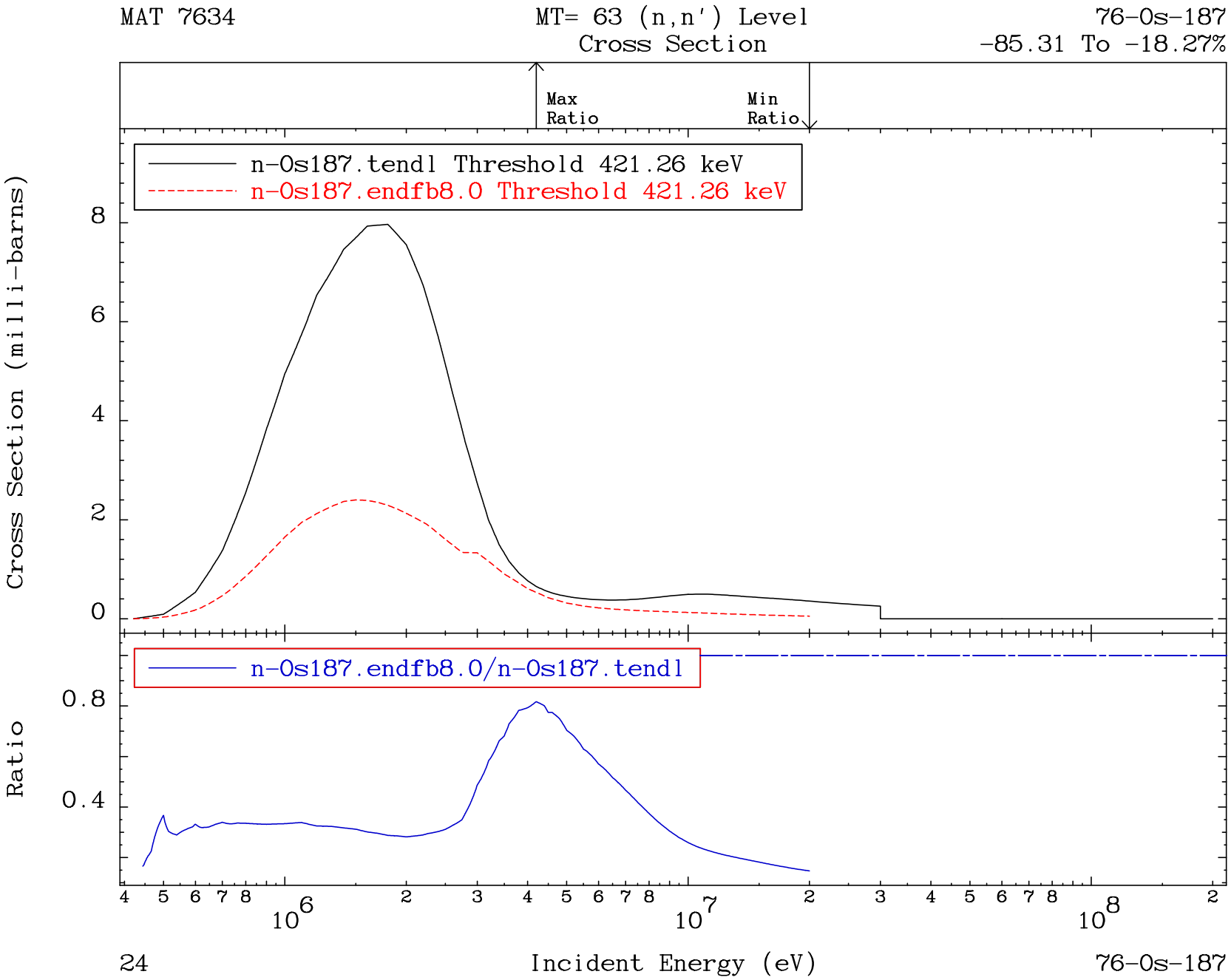

MAT 7634
MT= 58 (n,n') Level
Cross Section
76-0s-187
-79.31 To 9999. %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 258.49 keV
n-0s187.endfb8.0 Threshold 258.56 keV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^6
10^3
10^0
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
76-0s-187

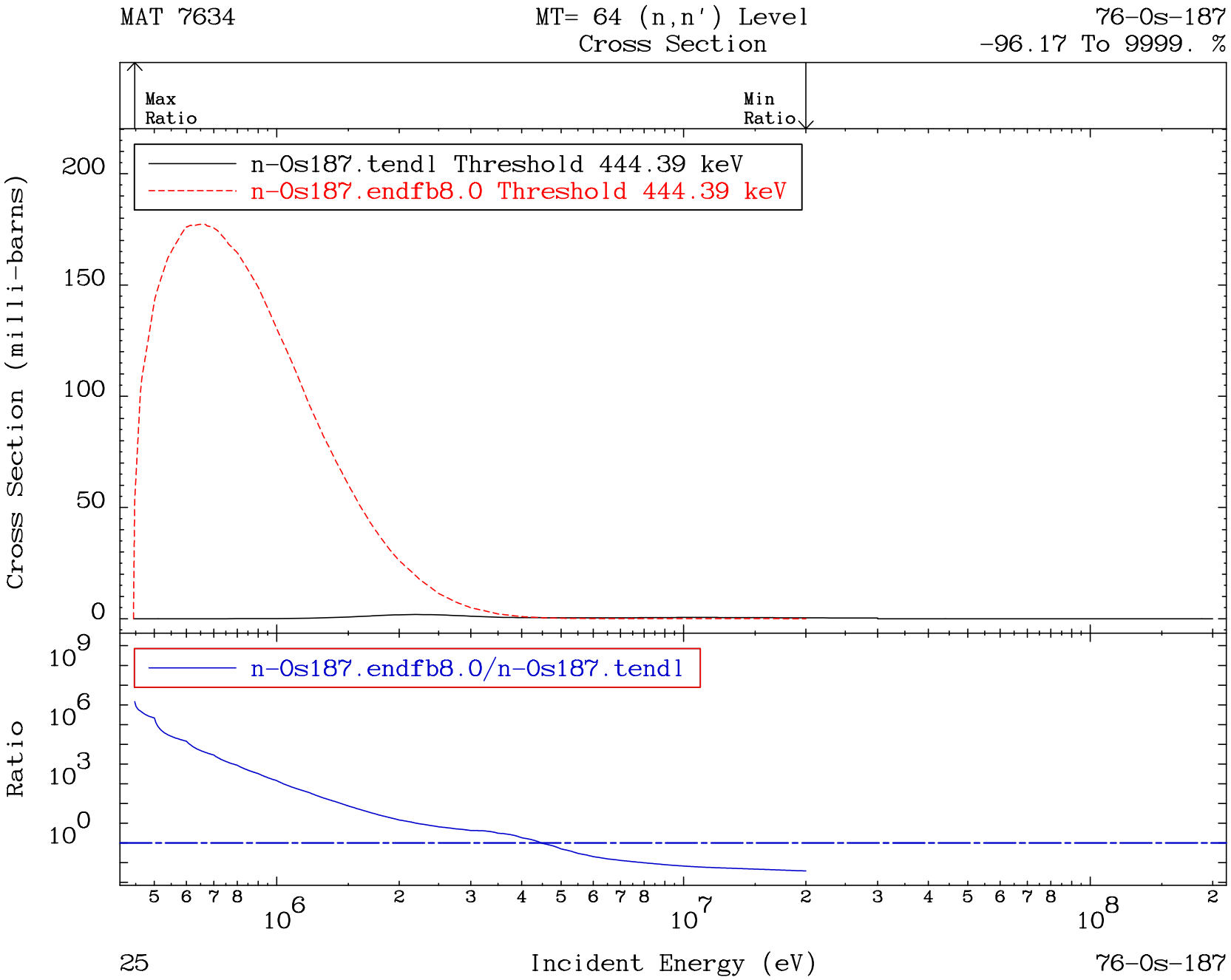

MAT 7634
MT= 59 (n,n') Level
Cross Section
76-0s-187
-68.05 To 9999. %
Min
Ratio
Max
Ratio
n-0s187.tendl Threshold 264.49 keV
n-0s187.endfb8.0 Threshold 264.72 keV
Cross Section (milli-barns)
0
20
40
60
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^0
10^3
10^6
10^9
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
76-0s-187

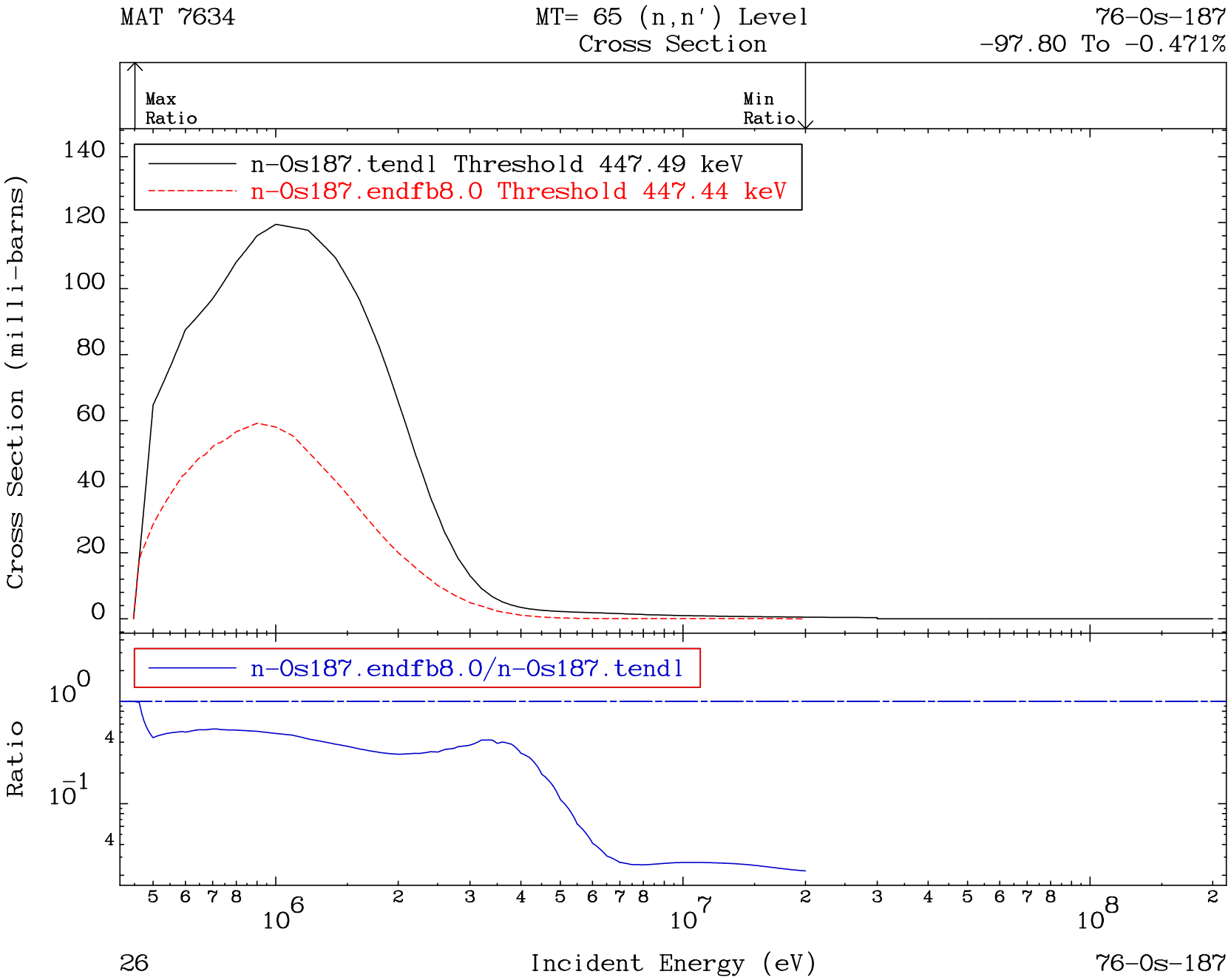

MAT 7634
MT= 60 (n,n') Level
Cross Section
76-0s-187
-68.63 To 9999. %
Min
Ratio
Max
Ratio
n-0s187.tendl Threshold 335.15 keV
n-0s187.endfb8.0 Threshold 335.06 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^6
10^3
10^0
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
76-0s-187

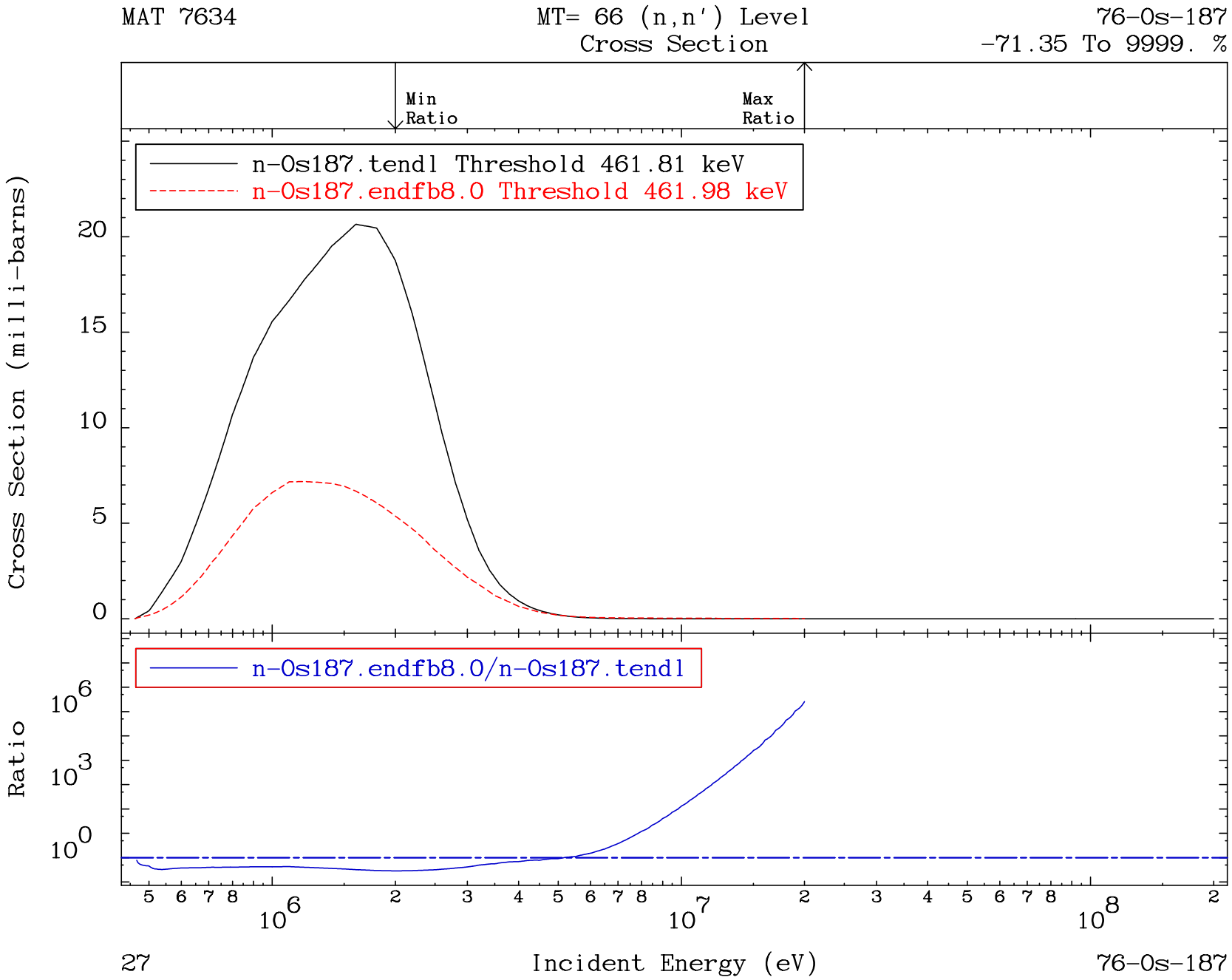

MAT 7634
MT= 61 (n,n') Level
Cross Section
76-0s-187
-98.70 To -54.03%
Max
Ratio
Min
Ratio
n-0s187.tendl Threshold 343.34 keV
n-0s187.endfb8.0 Threshold 343.34 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^0
4
10^-1
4
10^-2
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
76-0s-187

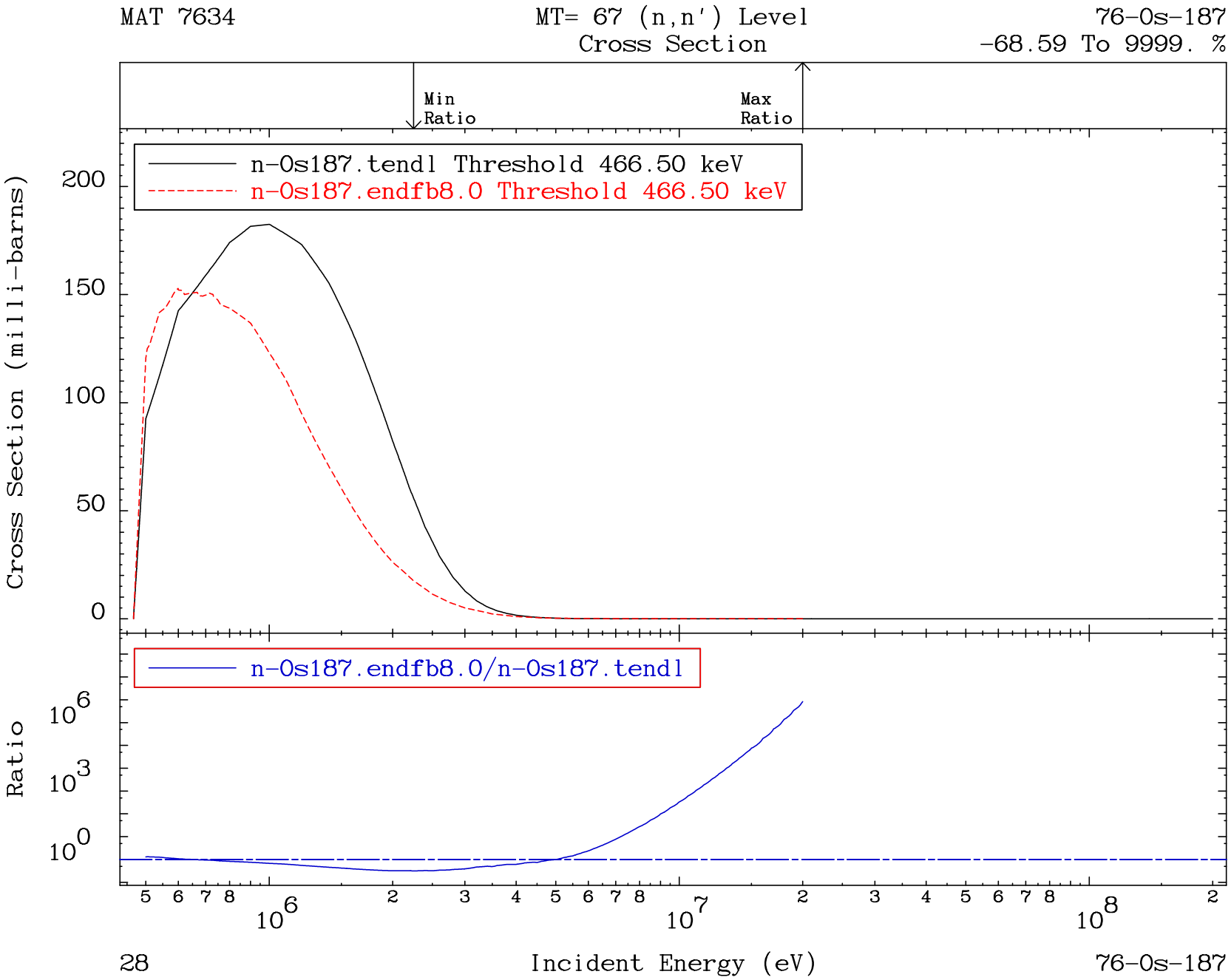

MAT 7634
MT= 62 (n,n') Level
Cross Section
76-0s-187
-91.87 To 9999. %
Max
Ratio
Min
Ratio
n-0s187.tendl Threshold 351.89 keV
n-0s187.endfb8.0 Threshold 351.89 keV
Cross Section (milli-barns)
80
60
40
20
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^2
10^0
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
76-0s-187

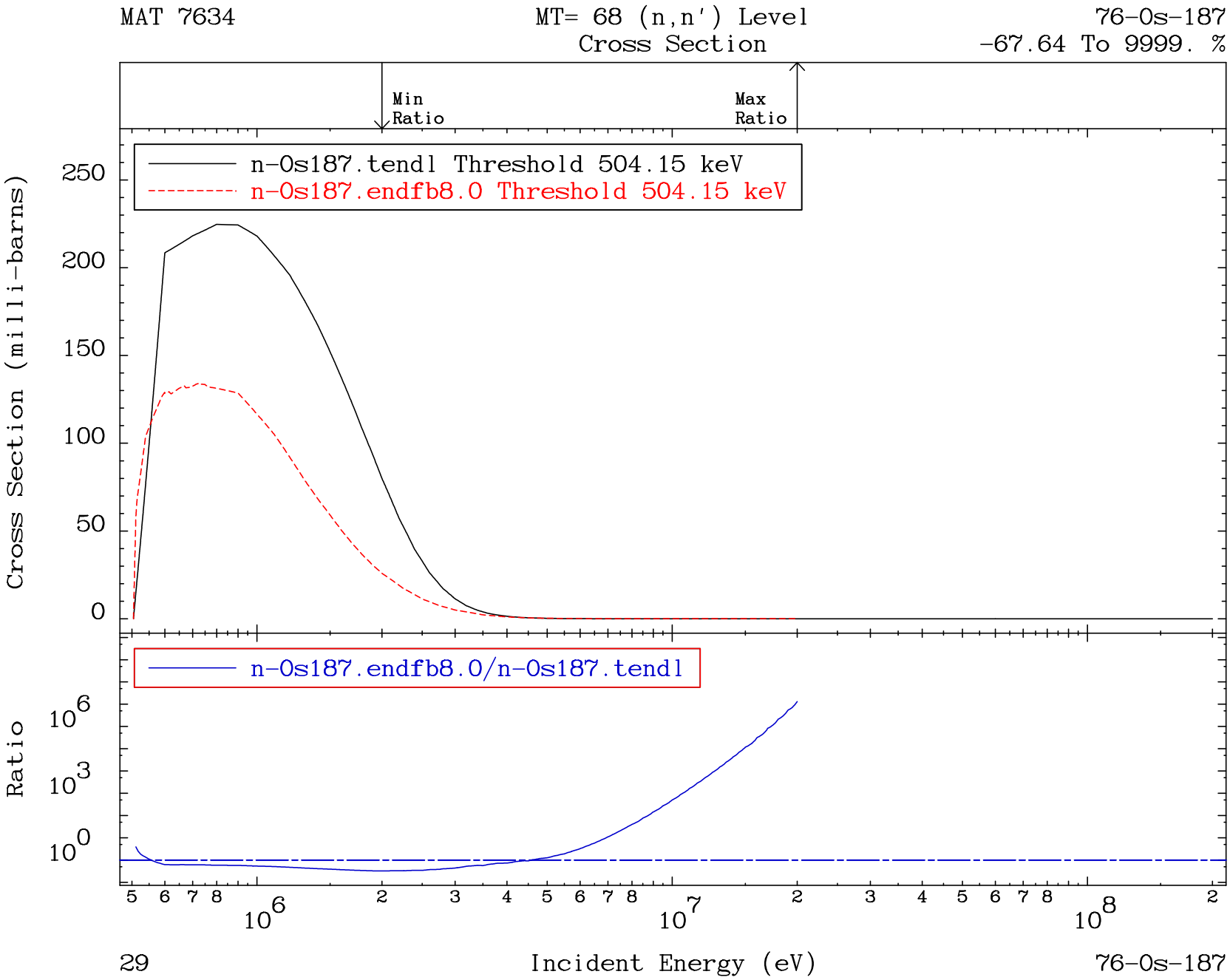

MAT 7634
MT= 63 (n,n') Level
Cross Section
76-0s-187
-85.31 To -18.27%
Max
Ratio
Min
Ratio
n-0s187.tendl Threshold 421.26 keV
n-0s187.endfb8.0 Threshold 421.26 keV
Cross Section (milli-barns)
0
2
4
6
8
n-0s187.endfb8.0/n-0s187.tendl
Ratio
0.4
0.8
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
24
76-0s-187

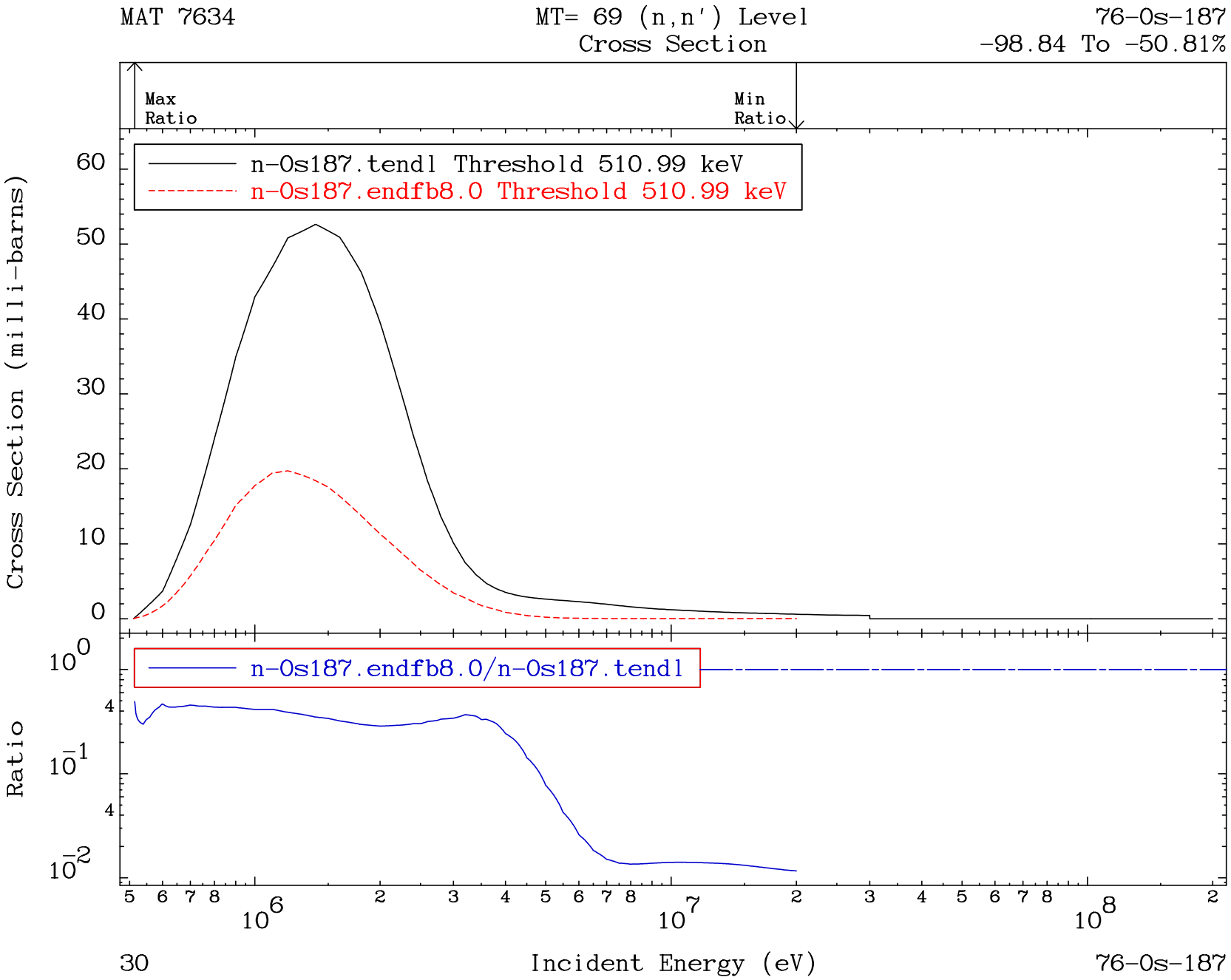

MAT 7634
MT= 64 (n,n') Level
Cross Section
76-0s-187
-96.17 To 9999. %
Max
Ratio
Min
Ratio
n-0s187.tendl Threshold 444.39 keV
n-0s187.endfb8.0 Threshold 444.39 keV
Cross Section (milli-barns)
200
150
100
50
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^9
10^6
10^3
10^0
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
76-0s-187

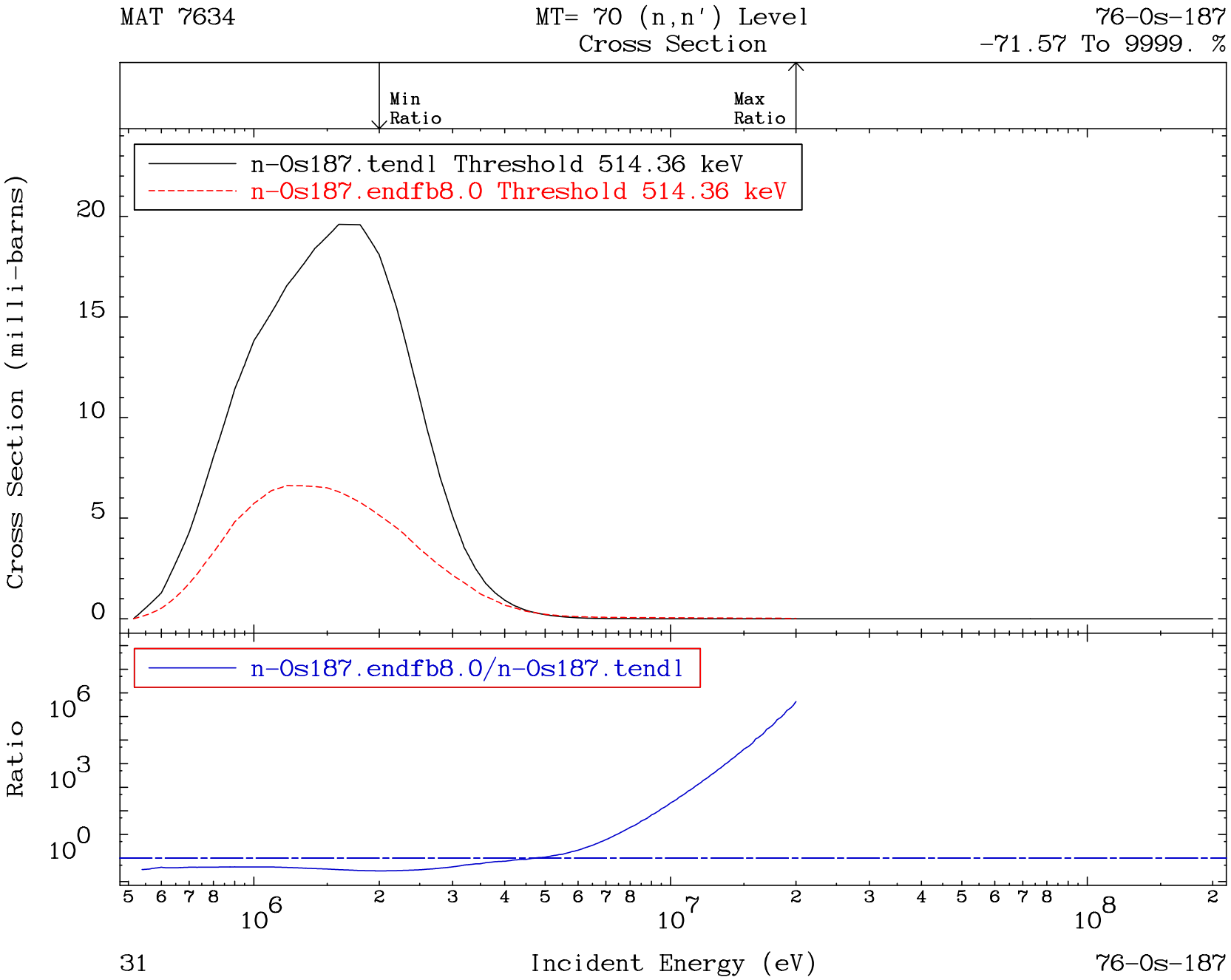

MAT 7634
MT= 65 (n,n') Level
Cross Section
76-0s-187
-97.80 To -0.471%
Max
Ratio
Min
Ratio
n-0s187.tendl Threshold 447.49 keV
n-0s187.endfb8.0 Threshold 447.44 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^0
10^-1
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
76-0s-187

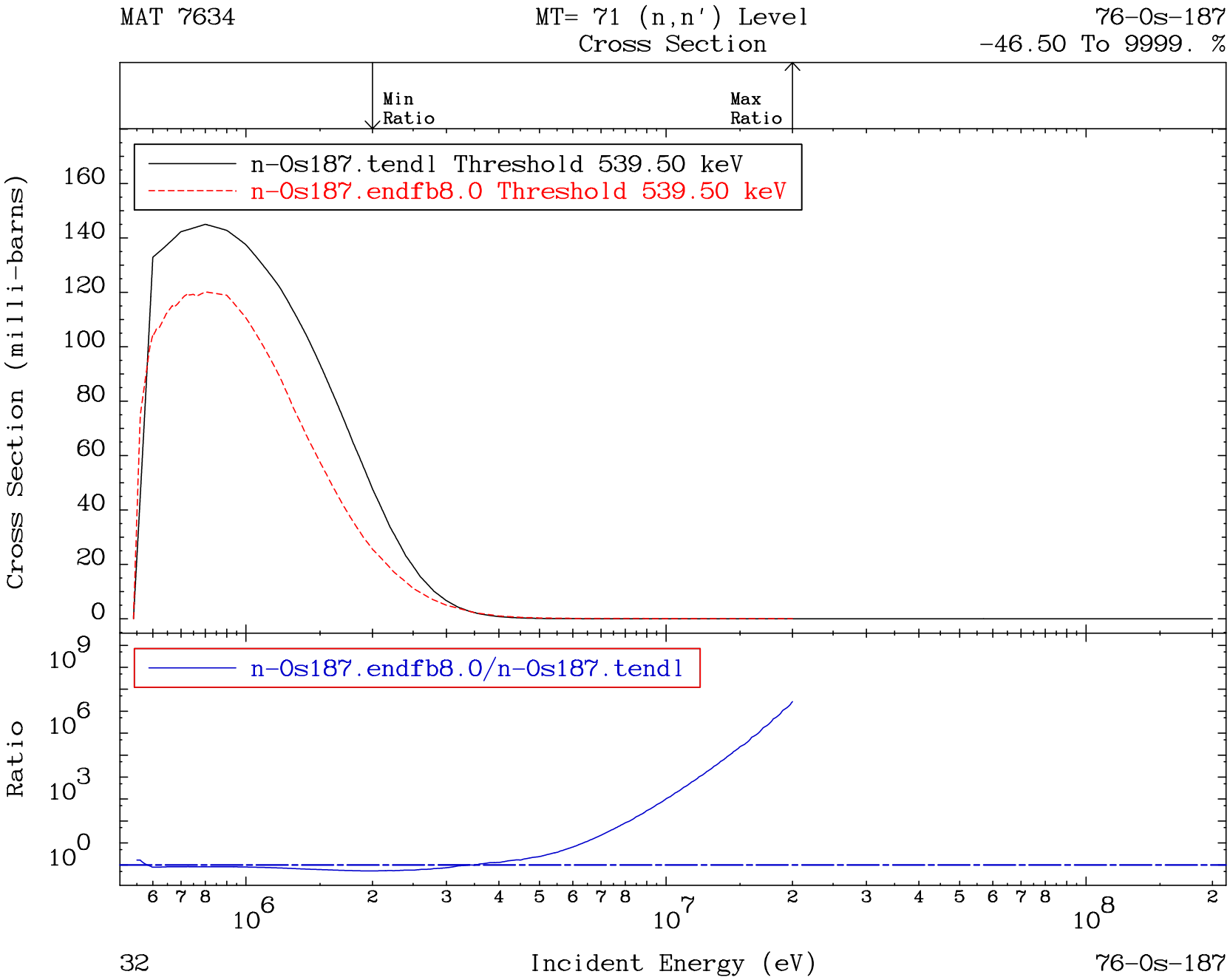

MAT 7634
MT= 66 (n,n') Level
Cross Section
76-0s-187
-71.35 To 9999. %
Min
Ratio
Max
Ratio
n-0s187.tendl Threshold 461.81 keV
n-0s187.endfb8.0 Threshold 461.98 keV
Cross Section (milli-barns)
20
15
10
5
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^6
10^3
10^0
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
76-0s-187

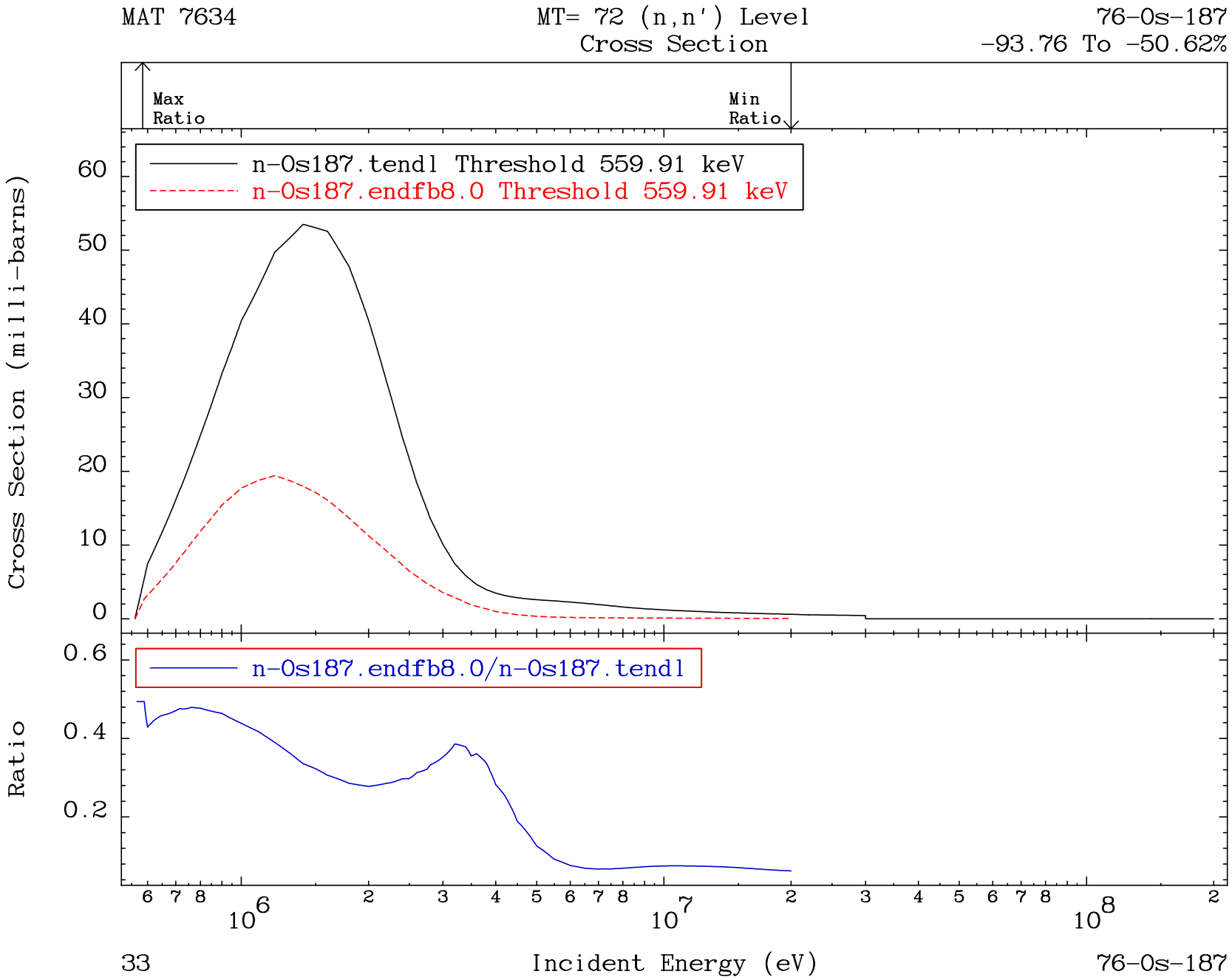

MAT 7634
MT= 67 (n,n') Level
Cross Section
76-0s-187
-68.59 To 9999. %
Min
Ratio
Max
Ratio
n-0s187.tendl Threshold 466.50 keV
n-0s187.endfb8.0 Threshold 466.50 keV
Cross Section (milli-barns)
200
150
100
50
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^6
10^3
10^0
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
76-0s-187

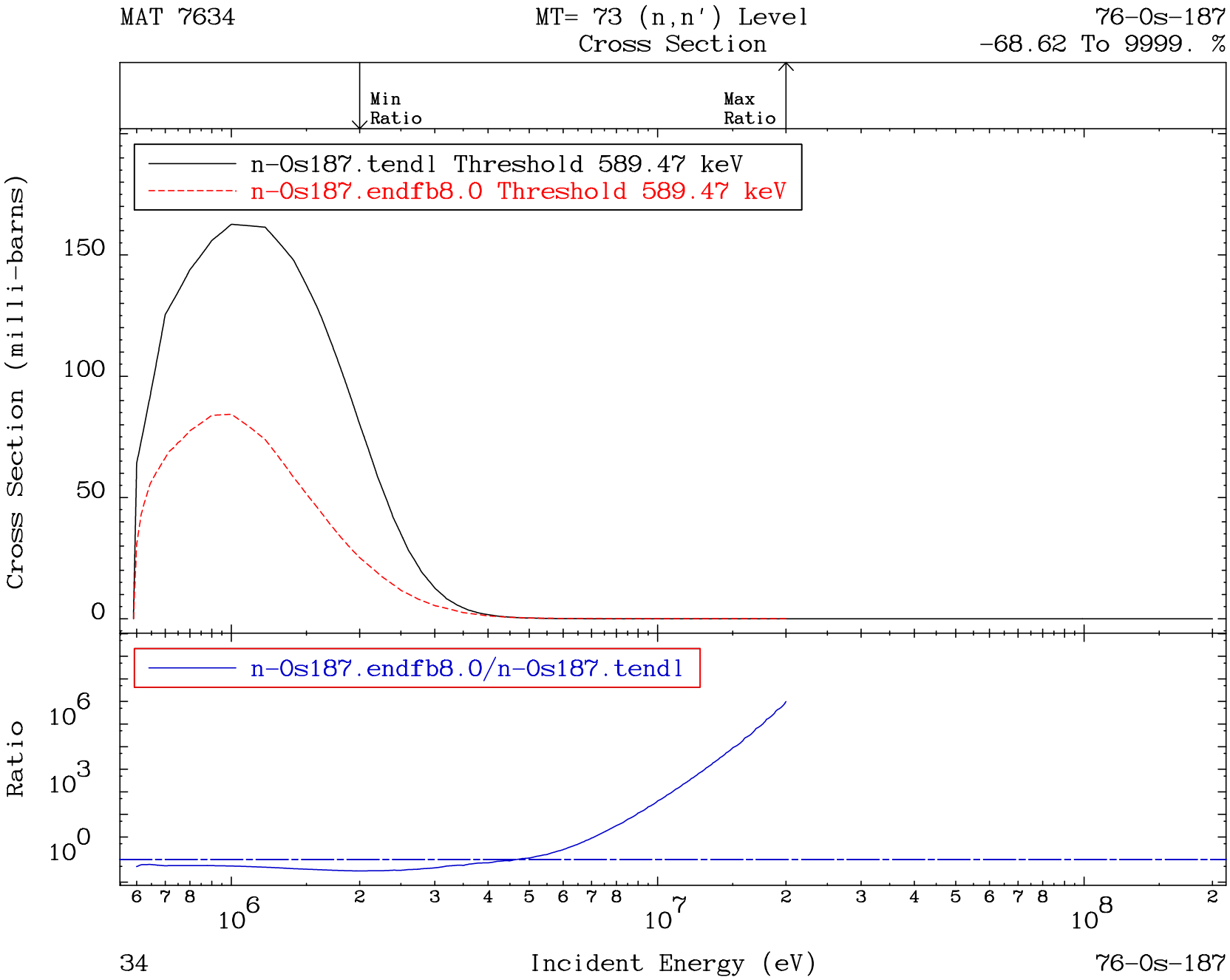

MAT 7634
MT= 68 (n,n') Level
Cross Section
76-0s-187
-67.64 To 9999. %
Min
Ratio
Max
Ratio
n-0s187.tendl Threshold 504.15 keV
n-0s187.endfb8.0 Threshold 504.15 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^6
10^3
10^0
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
76-0s-187

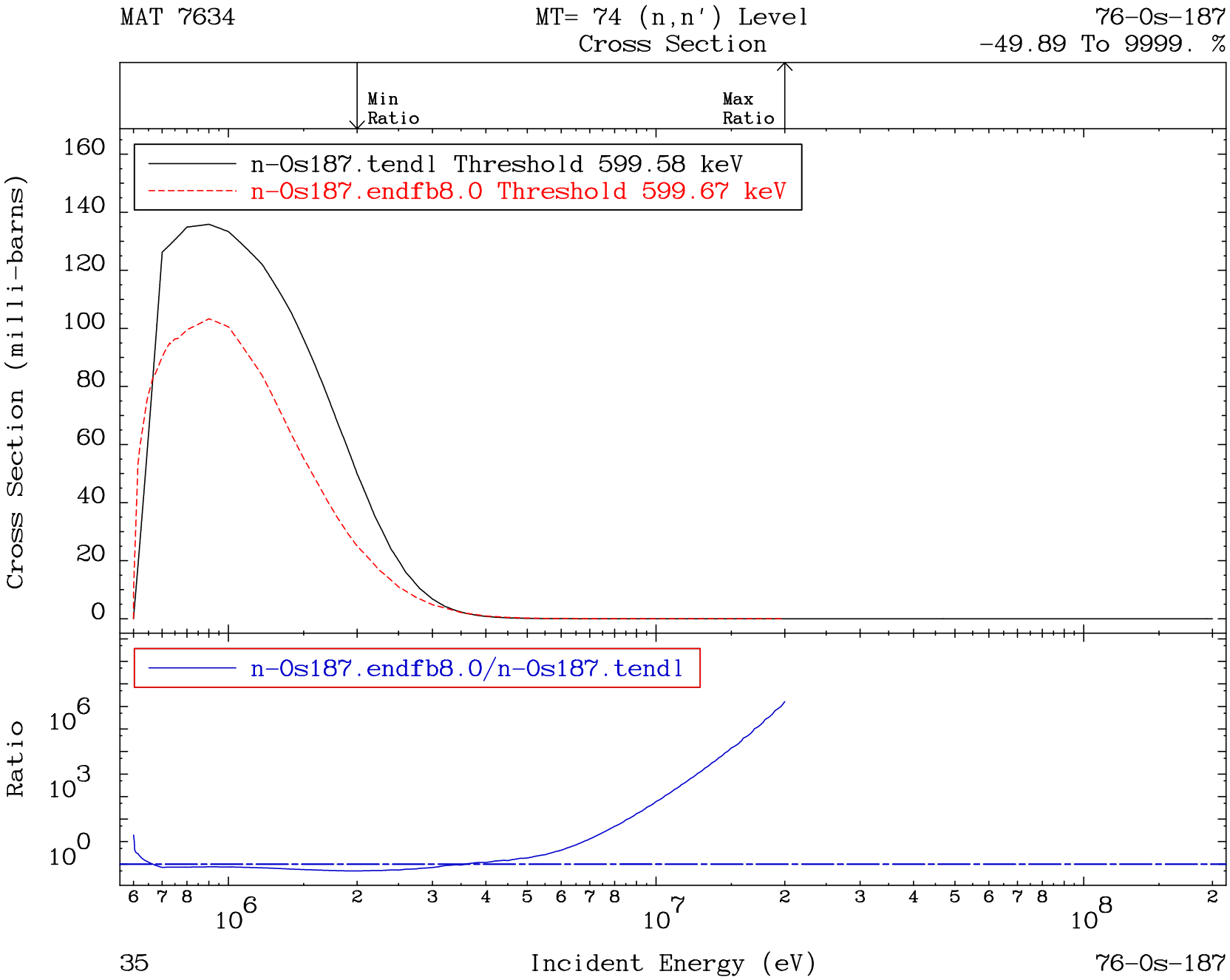

MAT 7634
MT= 69 (n,n') Level
Cross Section
76-0s-187
-98.84 To -50.81%
Max
Ratio
Min
Ratio
n-0s187.tendl Threshold 510.99 keV
n-0s187.endfb8.0 Threshold 510.99 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^0
4
10^-1
4
10^-2
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
30
Incident Energy (eV)
76-0s-187

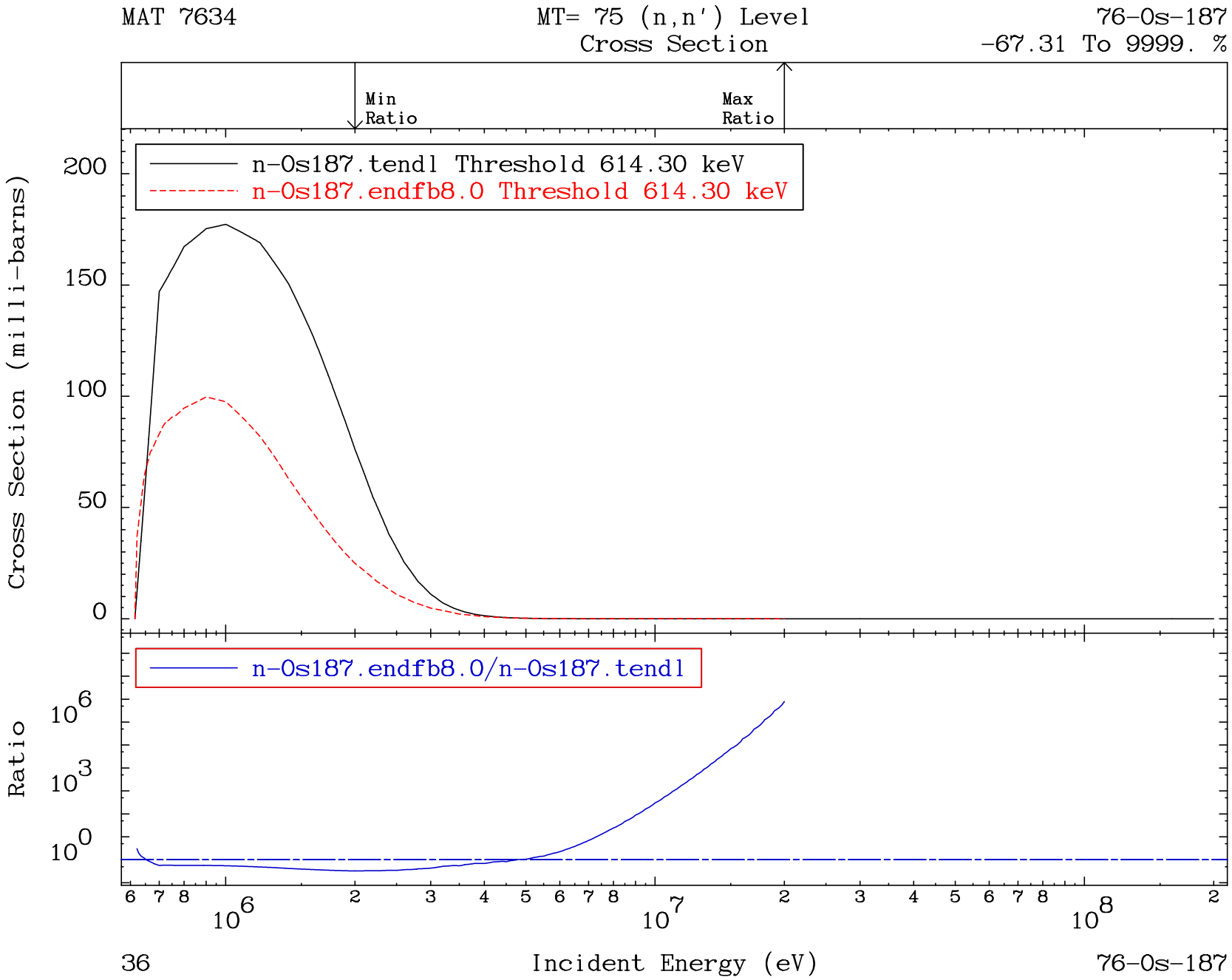

MAT 7634
MT= 70 (n,n') Level
Cross Section
76-0s-187
-71.57 To 9999. %
Min
Ratio
Max
Ratio
n-0s187.tendl Threshold 514.36 keV
n-0s187.endfb8.0 Threshold 514.36 keV
Cross Section (milli-barns)
20
15
10
5
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^6
10^3
10^0
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
31
Incident Energy (eV)
76-0s-187

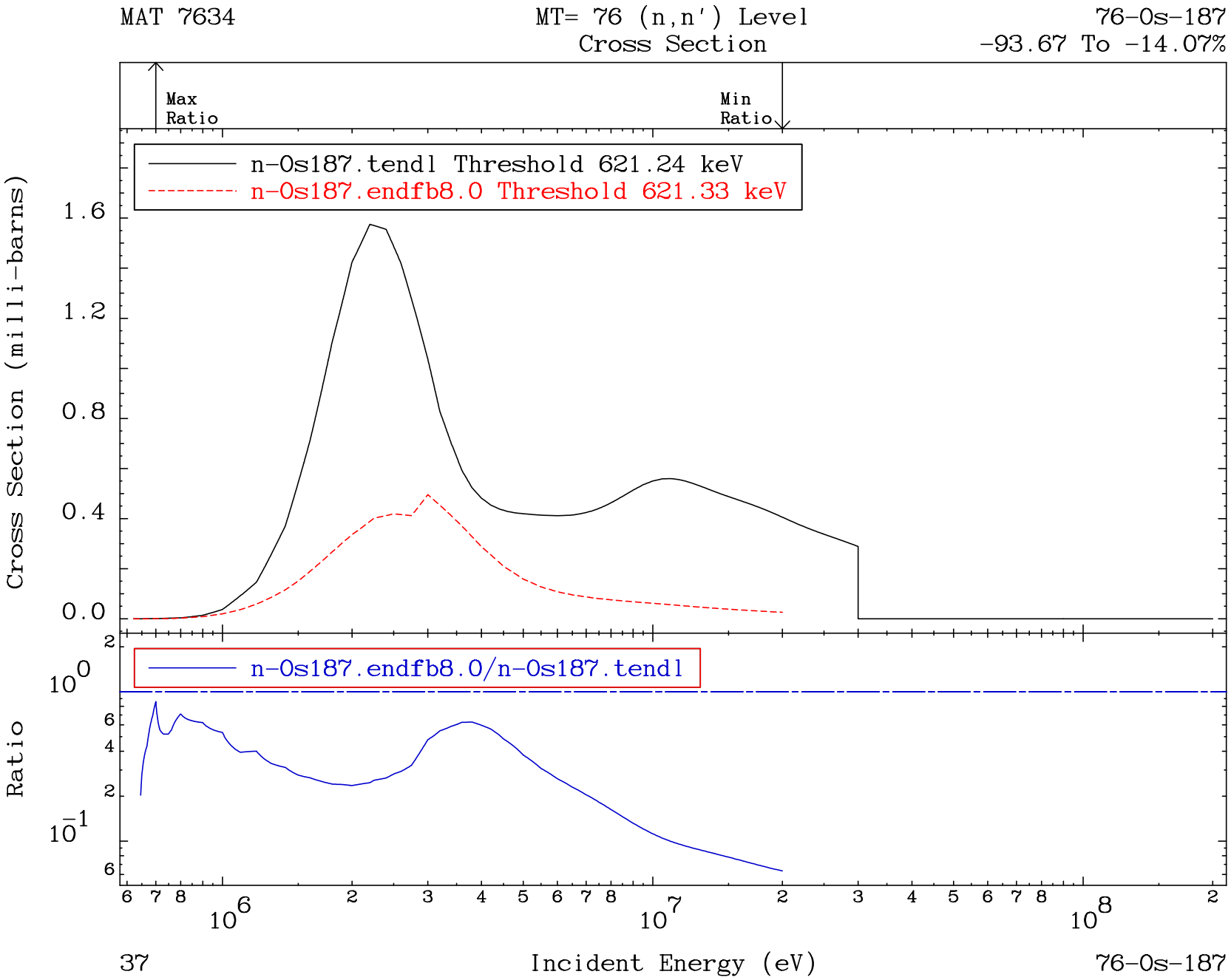

MAT 7634
MT= 71 (n,n') Level
Cross Section
76-0s-187
-46.50 To 9999. %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 539.50 keV
n-0s187.endfb8.0 Threshold 539.50 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^9
10^6
10^3
10^0
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
32
Incident Energy (eV)
76-0s-187

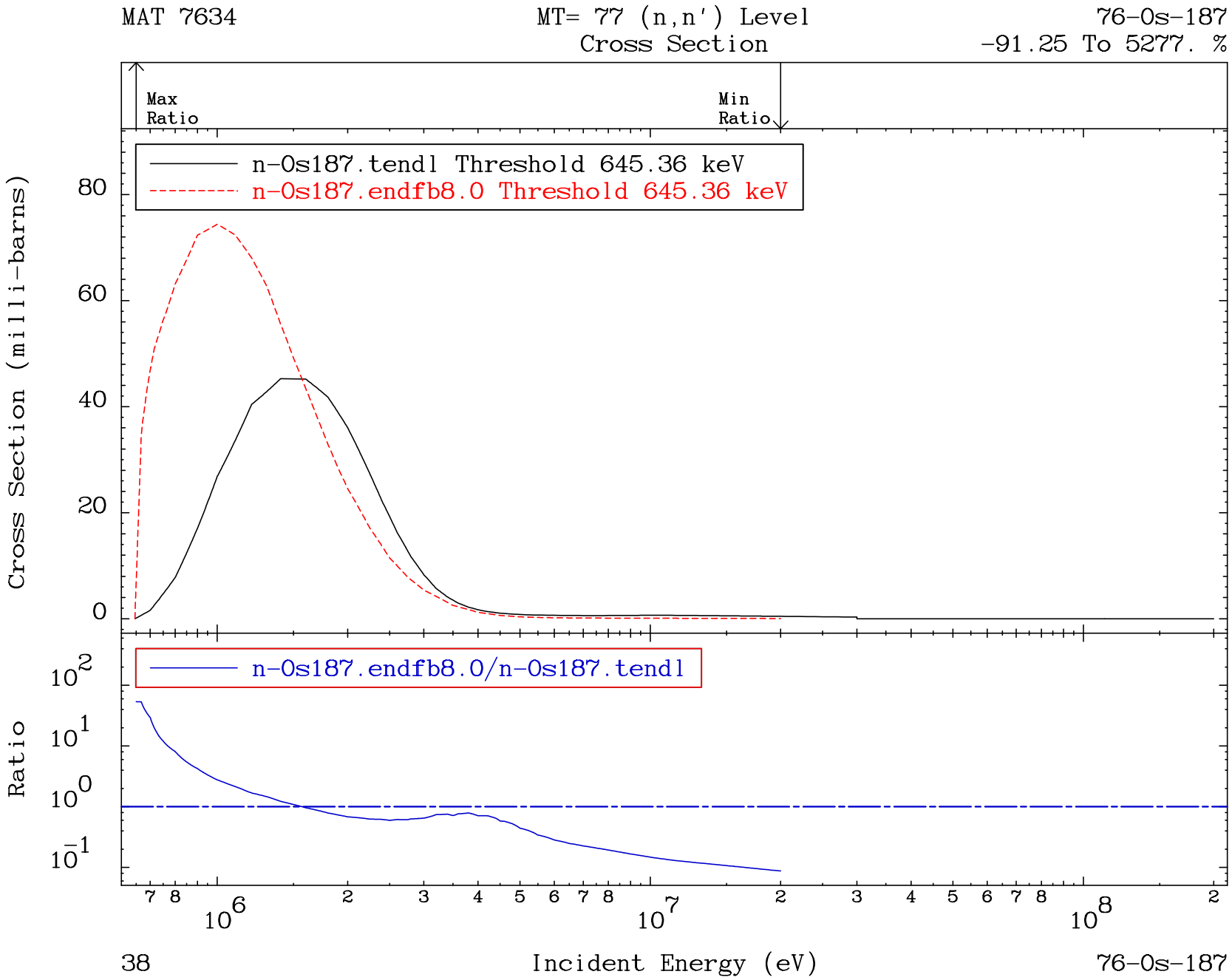

MAT 7634
MT= 72 (n,n') Level
Cross Section
76-0s-187
-93.76 To -50.62%
Max
Ratio
Min
Ratio
n-0s187.tendl Threshold 559.91 keV
n-0s187.endfb8.0 Threshold 559.91 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
0.6
0.4
0.2
6 7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
33
Incident Energy (eV)
76-0s-187

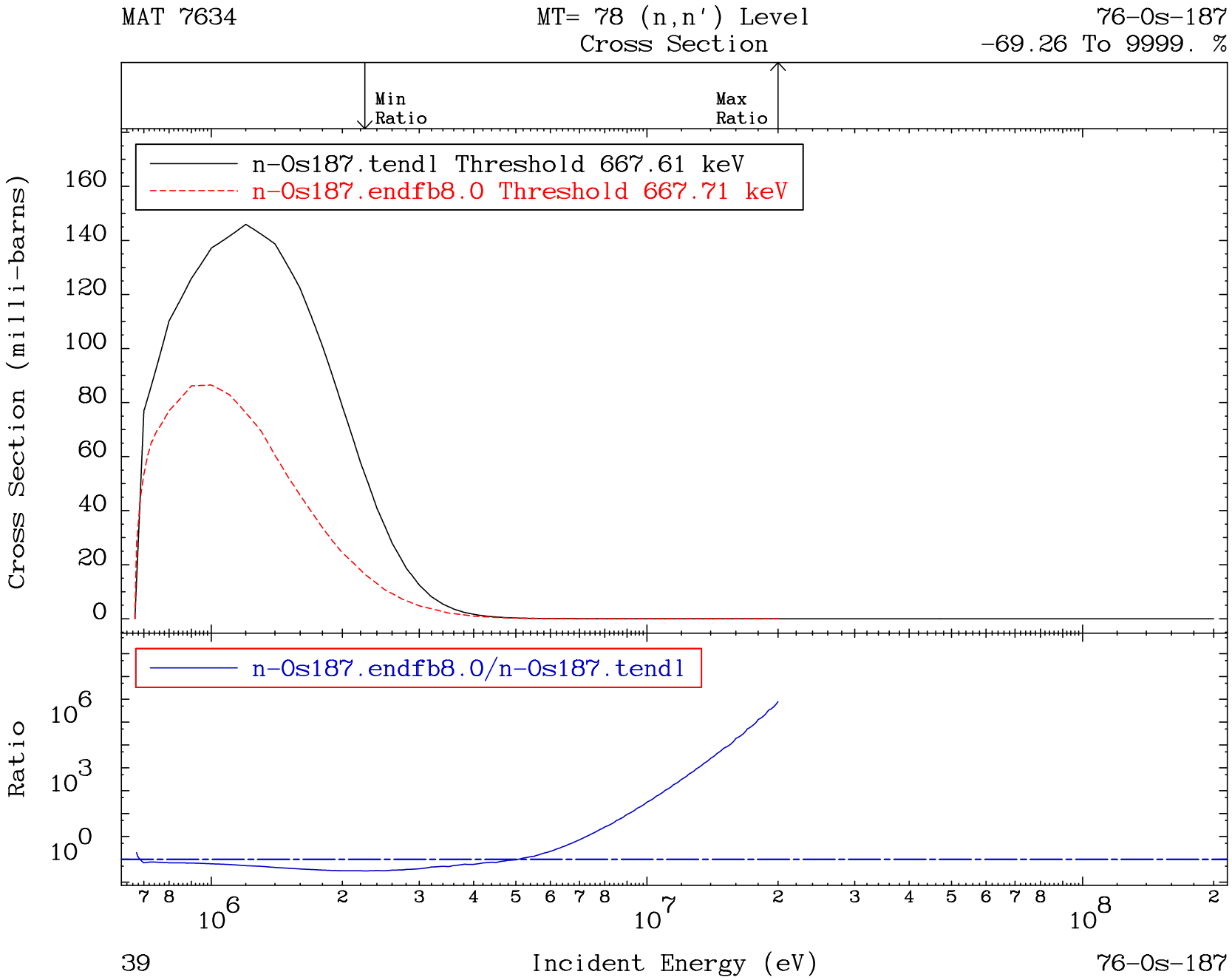

MAT 7634
MT= 73 (n,n') Level
Cross Section
76-0s-187
-68.62 To 9999. %
Min
Ratio
Max
Ratio
n-0s187.tendl Threshold 589.47 keV
n-0s187.endfb8.0 Threshold 589.47 keV
Cross Section (milli-barns)
150
100
50
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^6
10^3
10^0
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
76-0s-187

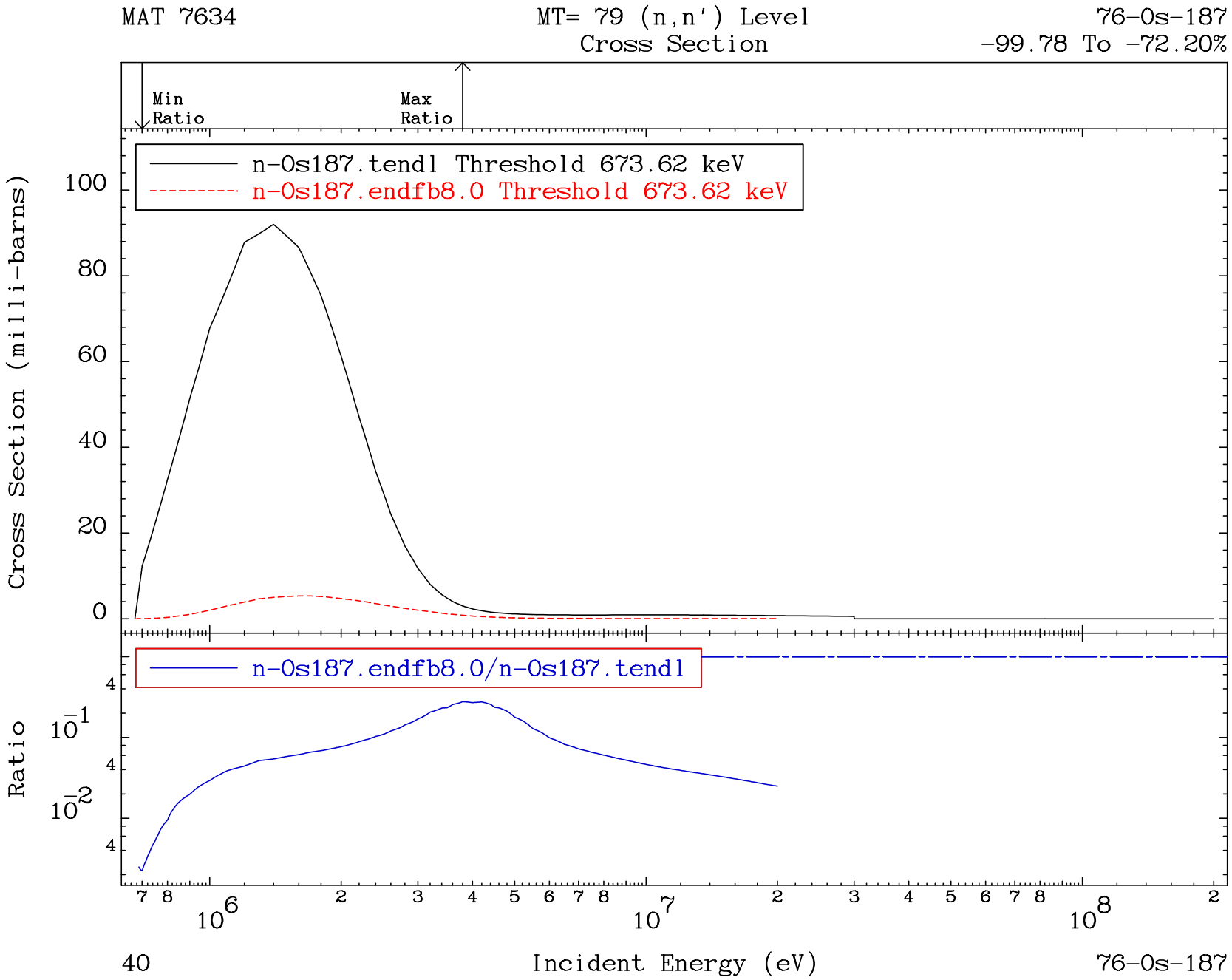

MAT 7634
MT= 74 (n,n') Level
Cross Section
76-0s-187
-49.89 To 9999. %
Min
Ratio
Max
Ratio
n-0s187.tendl Threshold 599.58 keV
n-0s187.endfb8.0 Threshold 599.67 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^6
10^3
10^0
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
35
Incident Energy (eV)
76-0s-187

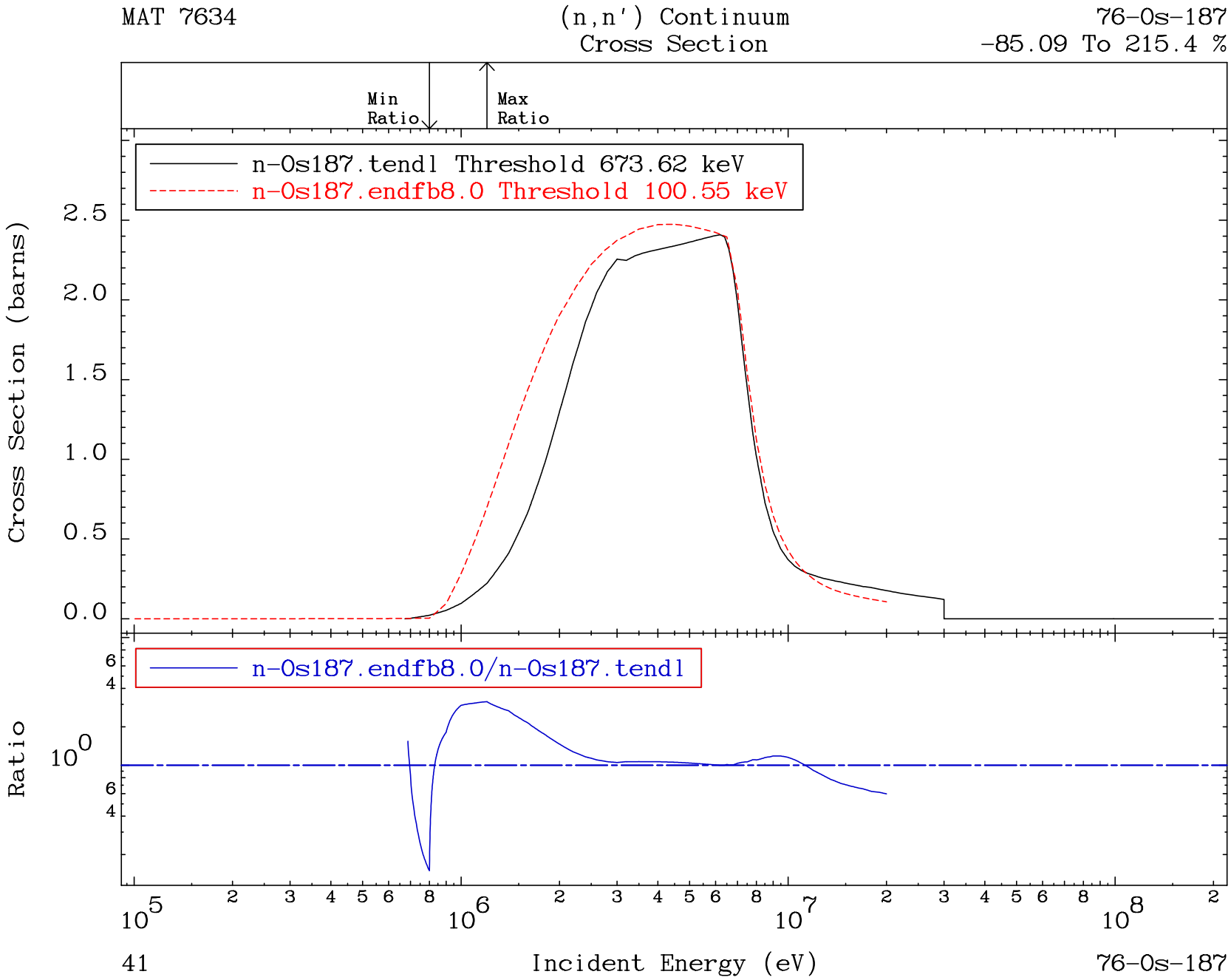

MAT 7634
MT= 75 (n,n') Level
Cross Section
76-0s-187
-67.31 To 9999. %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 614.30 keV
n-0s187.endfb8.0 Threshold 614.30 keV
Cross Section (milli-barns)
200
150
100
50
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^6
10^3
10^0
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
36
Incident Energy (eV)
76-0s-187

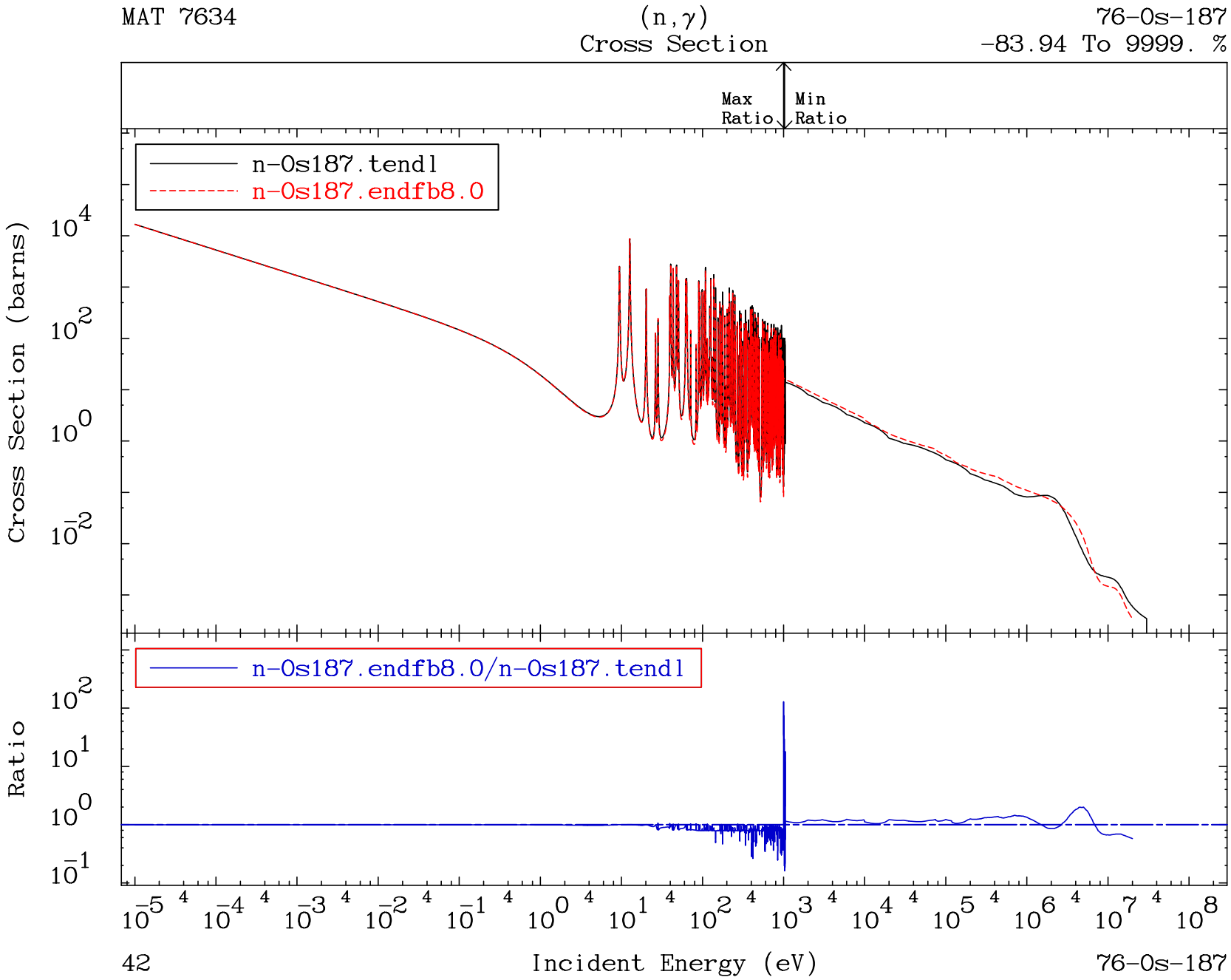

MAT 7634
MT= 76 (n,n') Level
Cross Section
76-0s-187
-93.67 To -14.07%
Max
Ratio
Min
Ratio
n-0s187.tendl Threshold 621.24 keV
n-0s187.endfb8.0 Threshold 621.33 keV
Cross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
2
10^0
6
4
2
10^-1
6
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
37
Incident Energy (eV)
76-0s-187

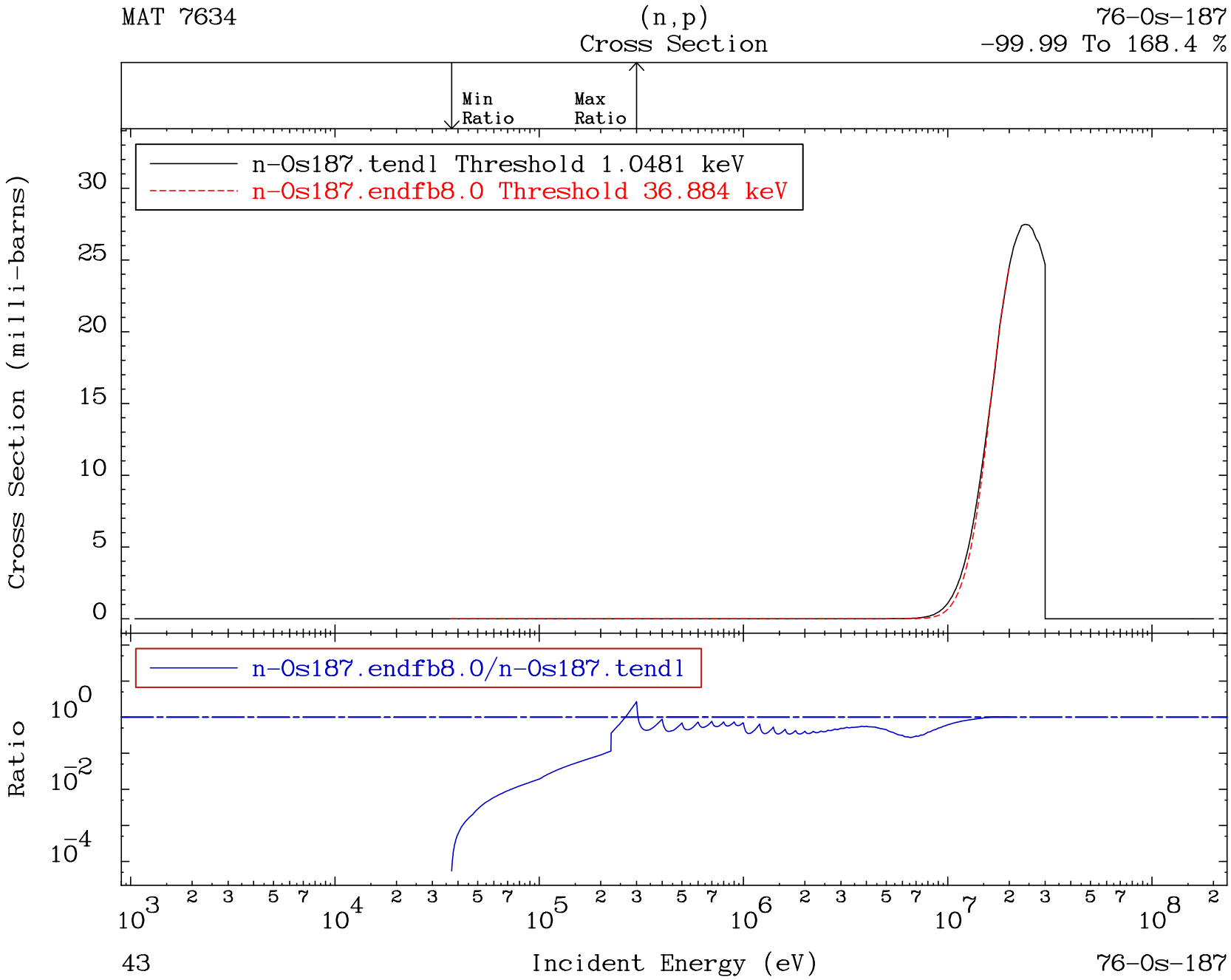

MAT 7634
MT= 77 (n,n') Level
Cross Section
76-0s-187
-91.25 To 5277. %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 645.36 keV
n-0s187.endfb8.0 Threshold 645.36 keV
Cross Section (milli-barns)
80
60
40
20
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^2
10^1
10^0
10^-1
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
38
Incident Energy (eV)
76-0s-187

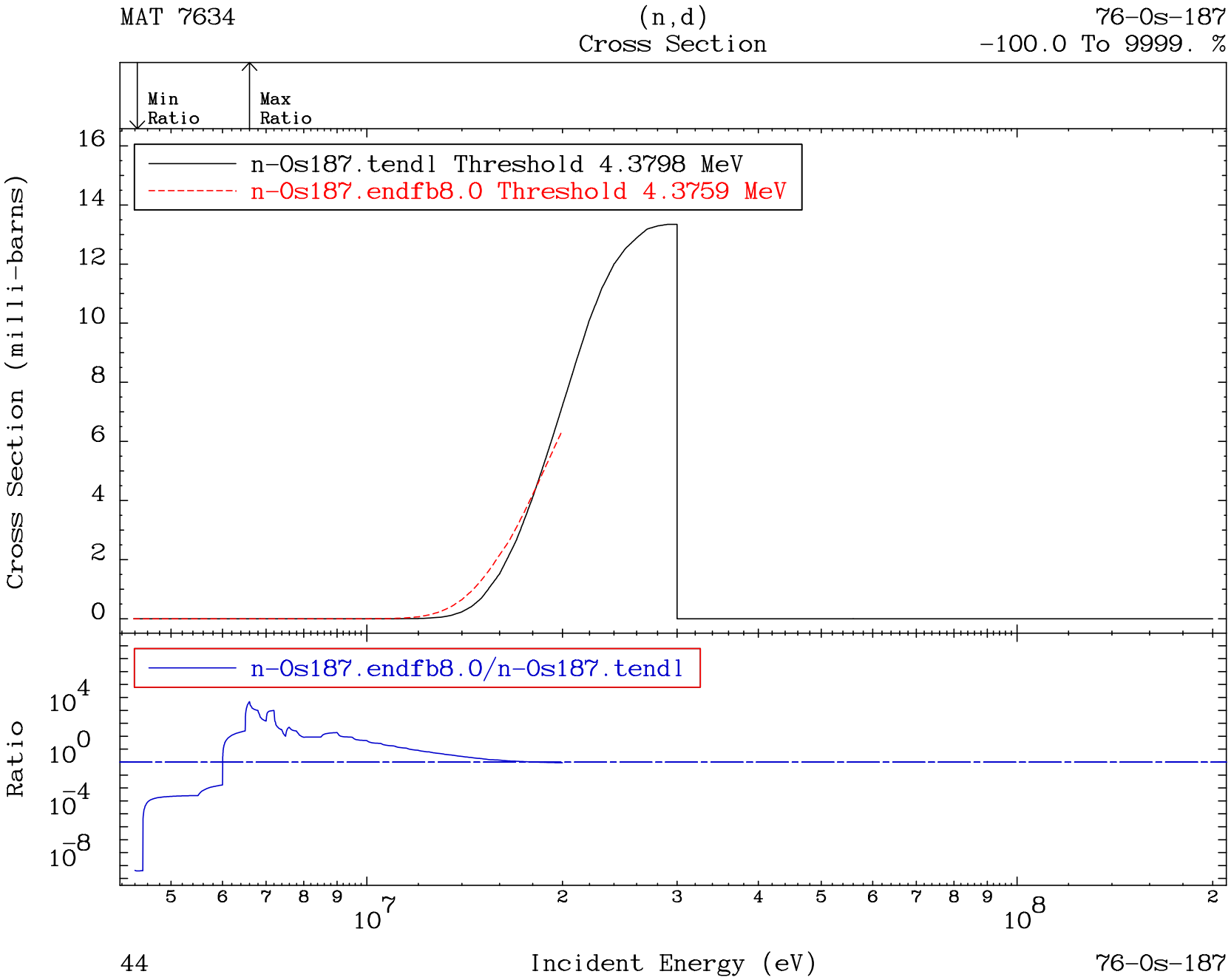

MAT 7634
MT= 78 (n,n') Level
Cross Section
76-0s-187
-69.26 To 9999. %
Min
Ratio
Max
Ratio
n-0s187.tendl Threshold 667.61 keV
n-0s187.endfb8.0 Threshold 667.71 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^6
10^3
10^0
7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
39
Incident Energy (eV)
76-0s-187

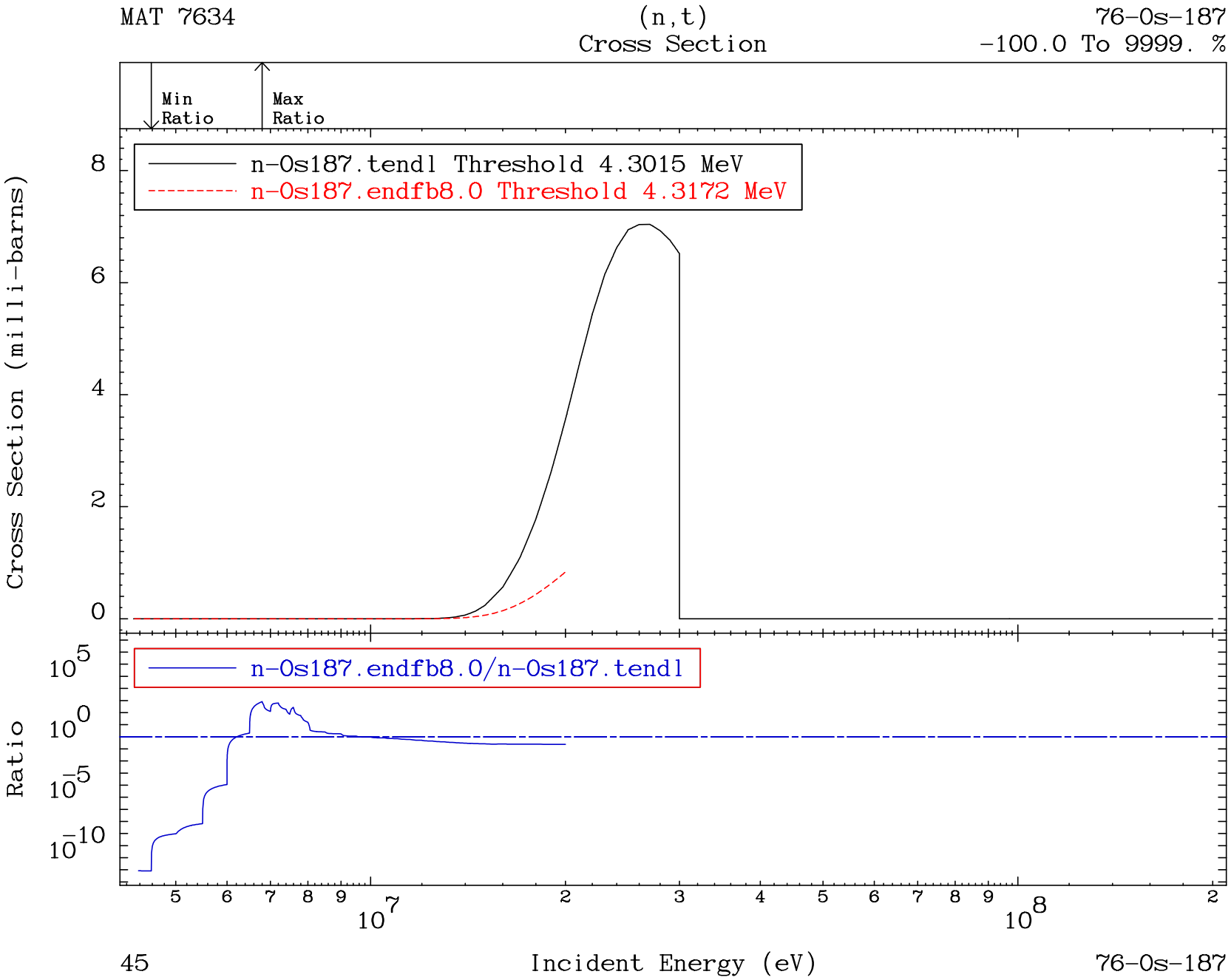

MAT 7634
MT= 79 (n,n') Level
Cross Section
76-0s-187
-99.78 To -72.20%
Min
Ratio
Max
Ratio
n-0s187.tendl Threshold 673.62 keV
n-0s187.endfb8.0 Threshold 673.62 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10-1
10-2
7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
40
Incident Energy (eV)
76-0s-187

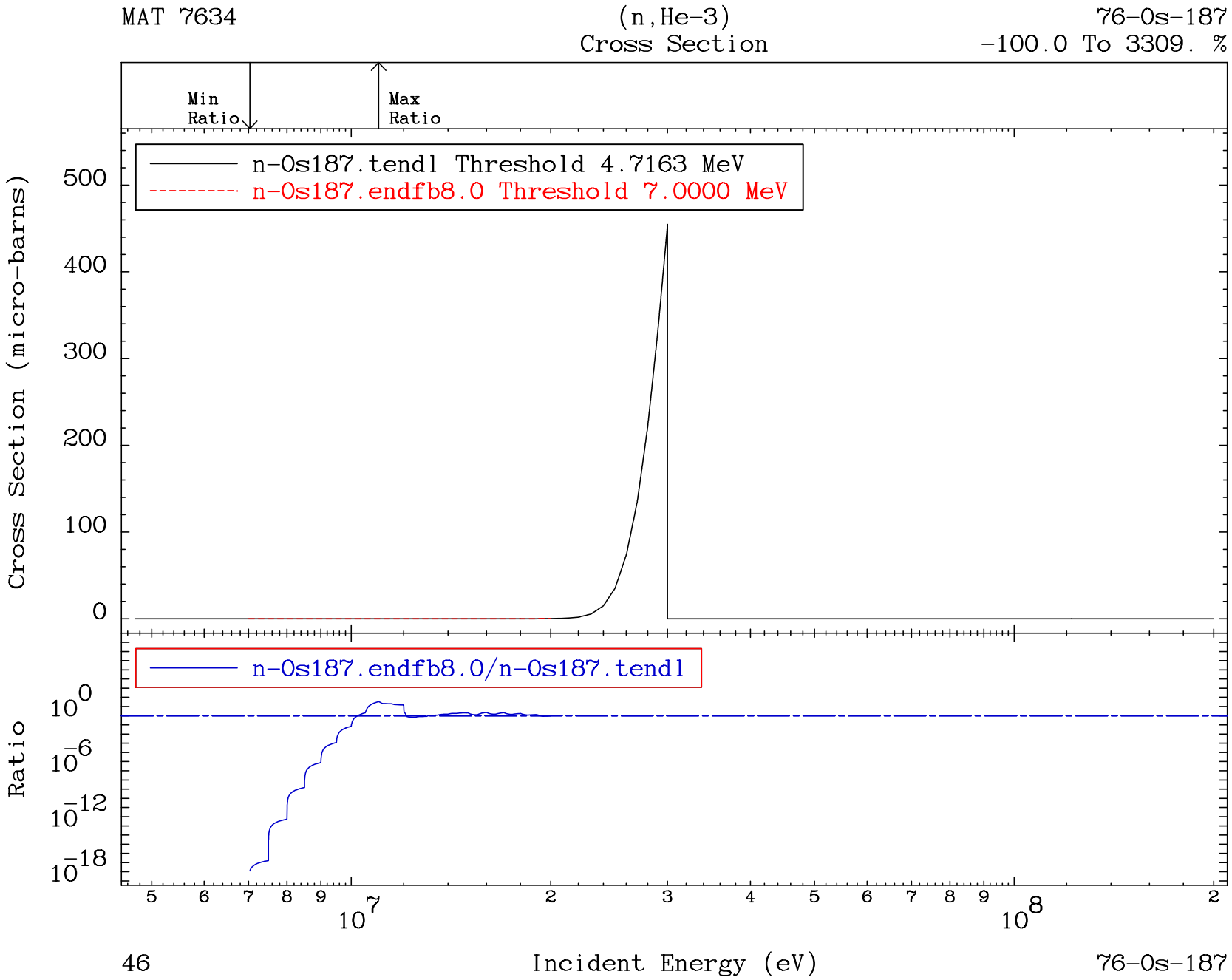

MAT 7634
(n,n') Continuum
Cross Section
76-0s-187
-85.09 To 215.4 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 673.62 keV
n-0s187.endfb8.0 Threshold 100.55 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
6
4
10^0
6
4
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
10^5
41
Incident Energy (eV)
76-0s-187

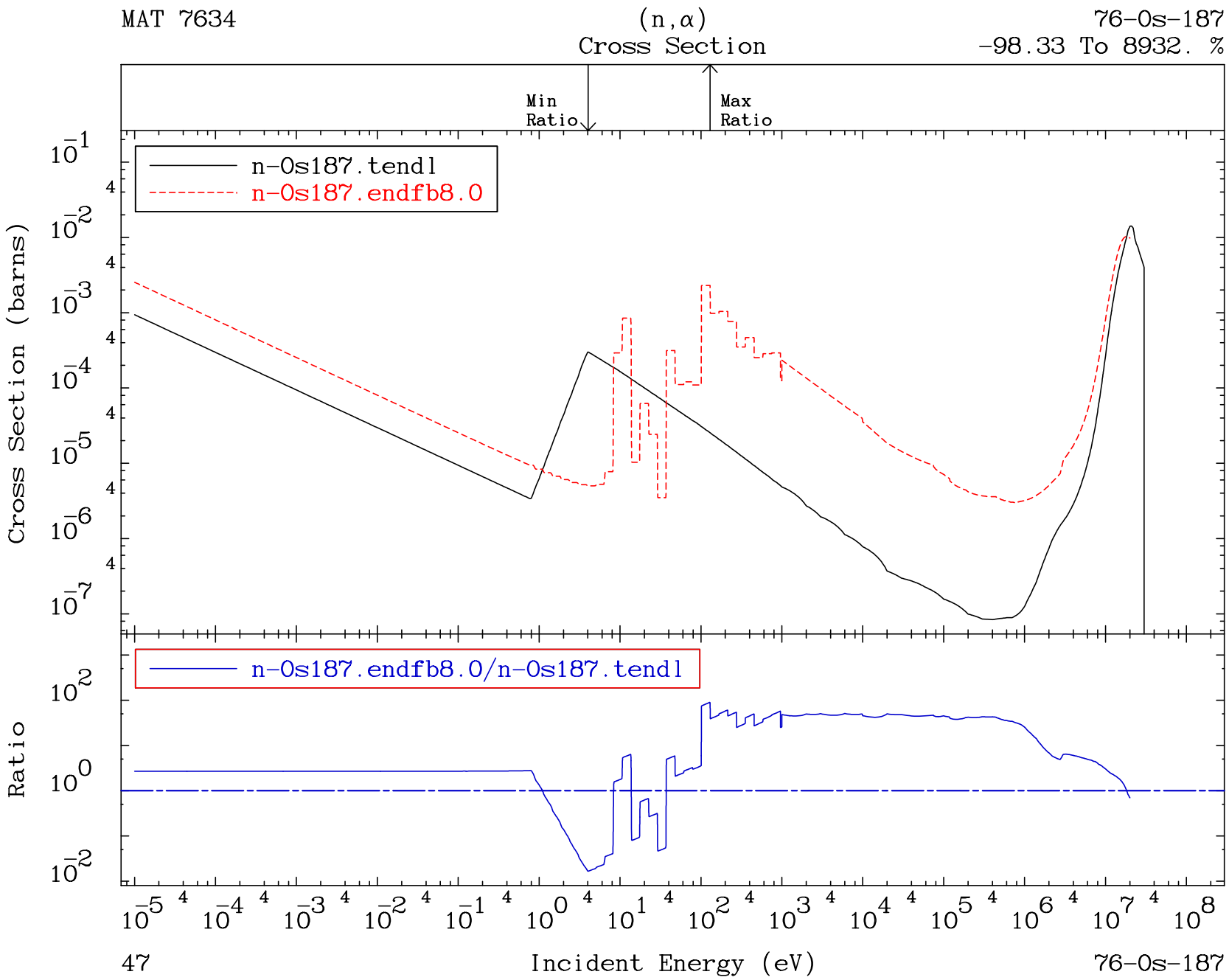

MAT 7634
(n,γ)
Cross Section
76-0s-187
-83.94 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.endfb8.0
Cross Section (barns)
n-0s187.endfb8.0/n-0s187.tendl
Ratio
Incident Energy (eV)
42
76-0s-187

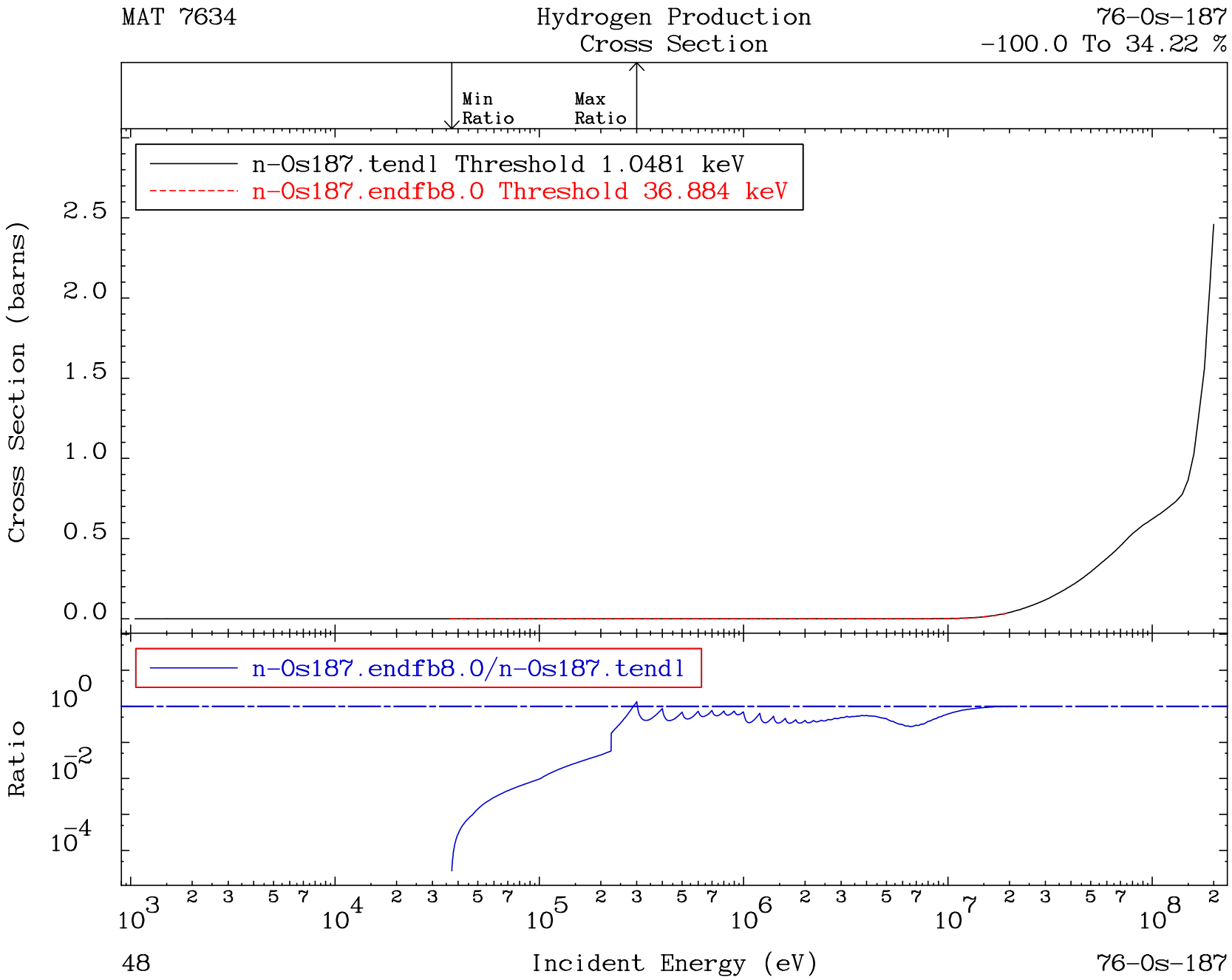

MAT 7634
(n,p)
Cross Section
76-0s-187
-99.99 To 168.4 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 1.0481 keV
n-0s187.endfb8.0 Threshold 36.884 keV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^0
10^-2
10^-4
10^3
10^4
10^5
10^6
10^7
10^8
43
Incident Energy (eV)
76-0s-187

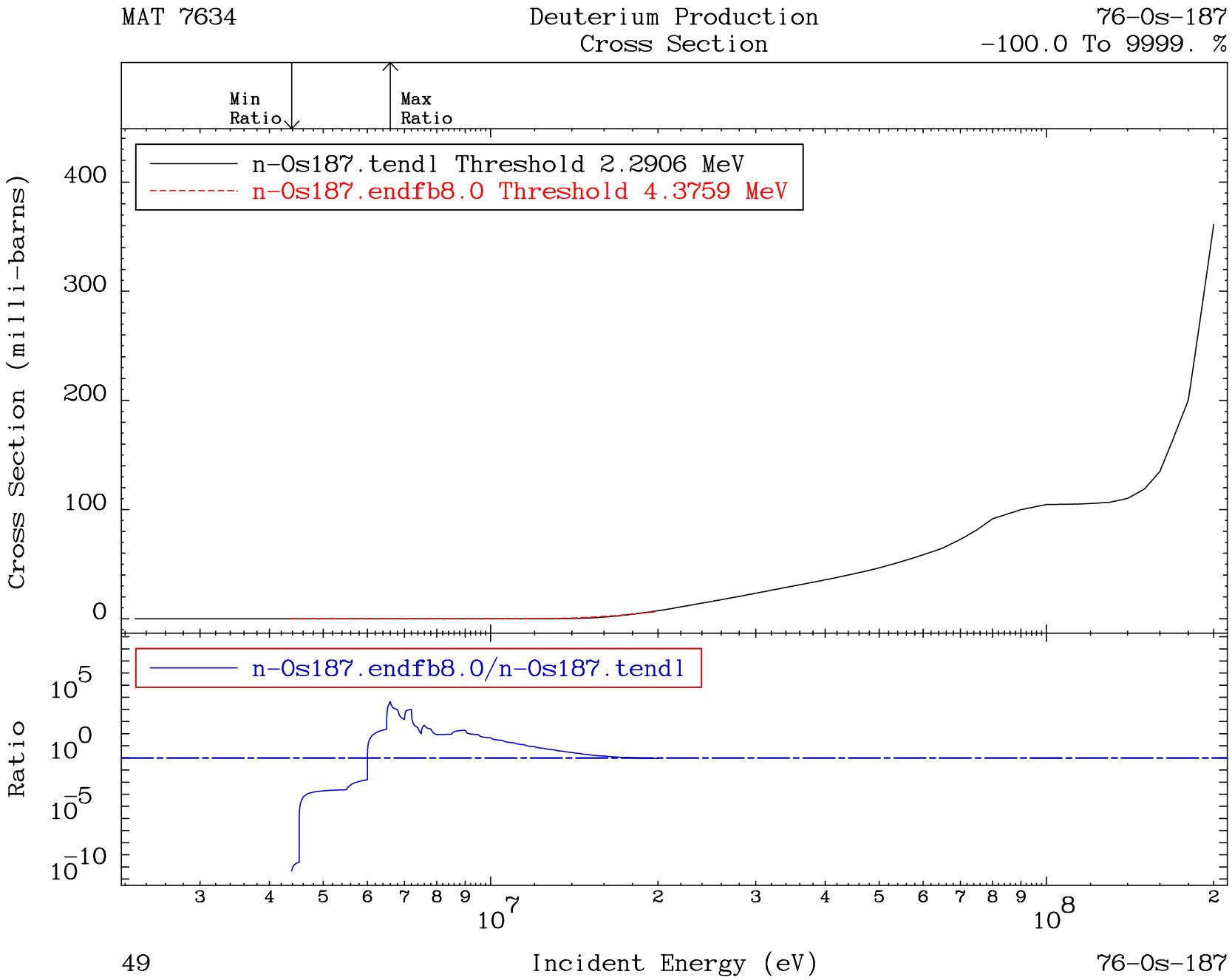

MAT 7634
(n,d)
Cross Section
76-0s-187
-100.0 To 9999. %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 4.3798 MeV
n-0s187.endfb8.0 Threshold 4.3759 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^4
10^0
10^-4
10^-8
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
76-0s-187

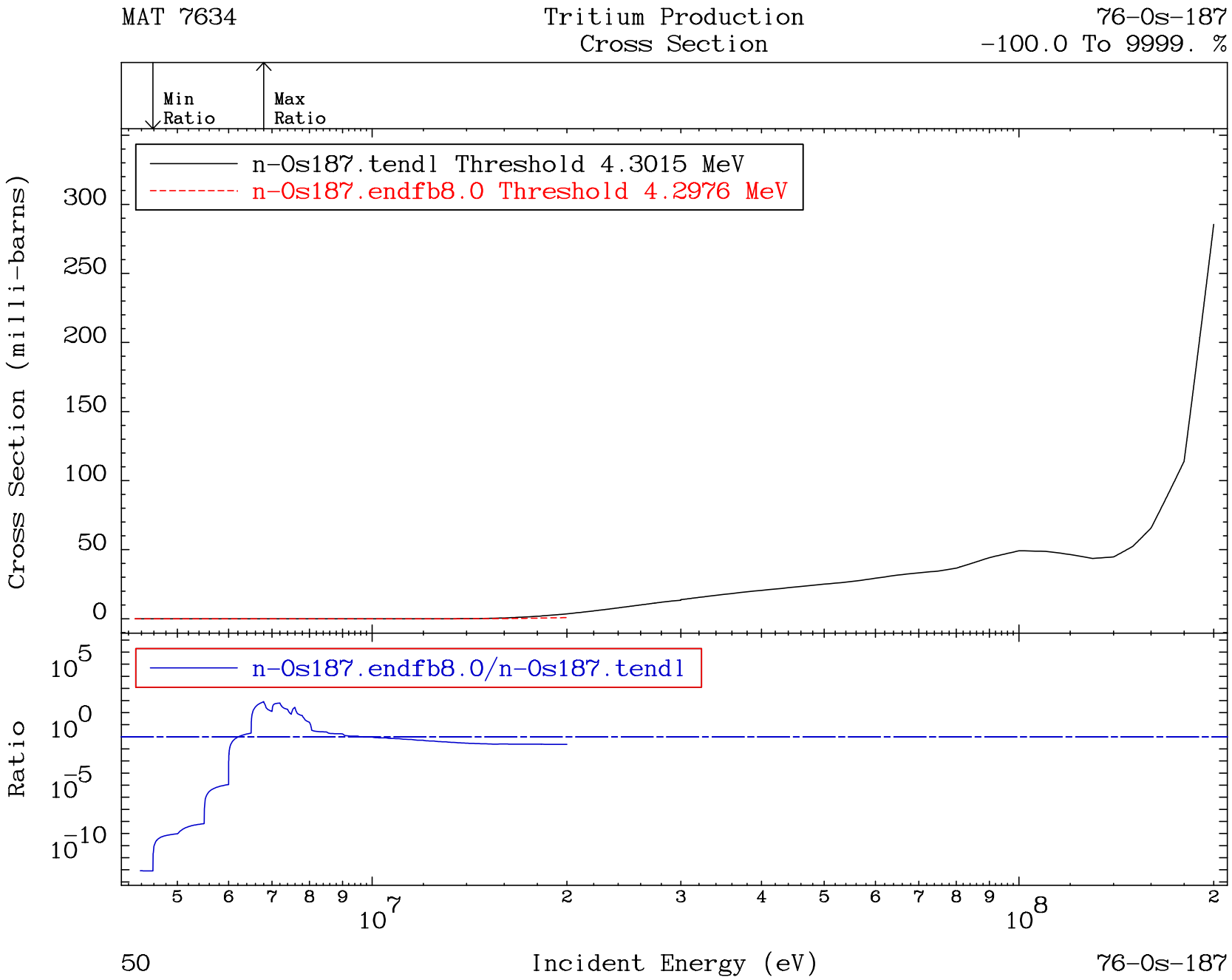

MAT 7634
(n,t)
Cross Section
76-0s-187
-100.0 To 9999. %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 4.3015 MeV
n-0s187.endfb8.0 Threshold 4.3172 MeV
Cross Section (milli-barns)
n-0s187.endfb8.0/n-0s187.tendl
Ratio
Incident Energy (eV)
45
76-0s-187

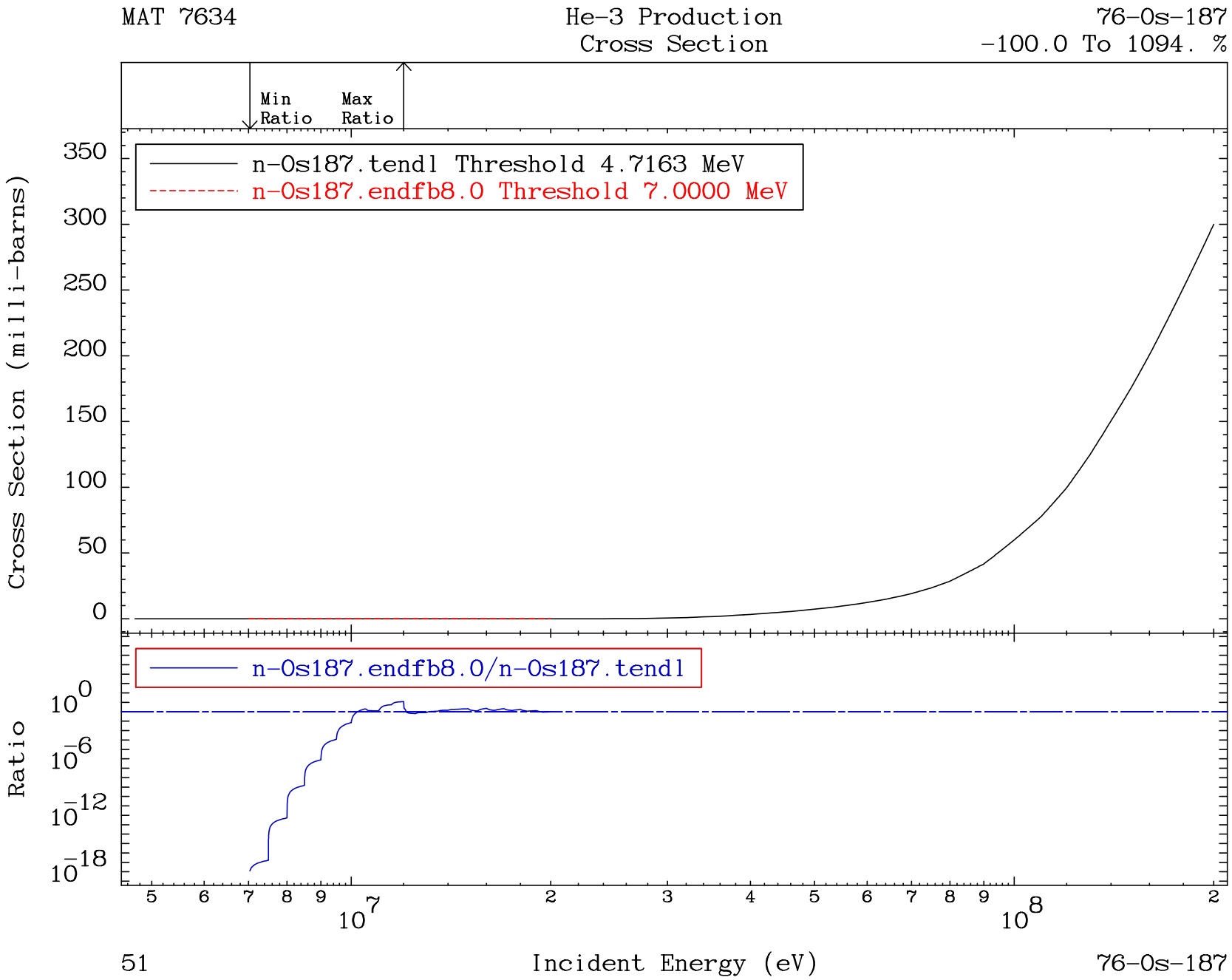

MAT 7634
(n,He-3)
Cross Section
76-0s-187
-100.0 To 3309. %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 4.7163 MeV
n-0s187.endfb8.0 Threshold 7.0000 MeV
Cross Section (micro-barns)
500
400
300
200
100
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^0
10^-6
10^-12
10^-18
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
46
Incident Energy (eV)
76-0s-187

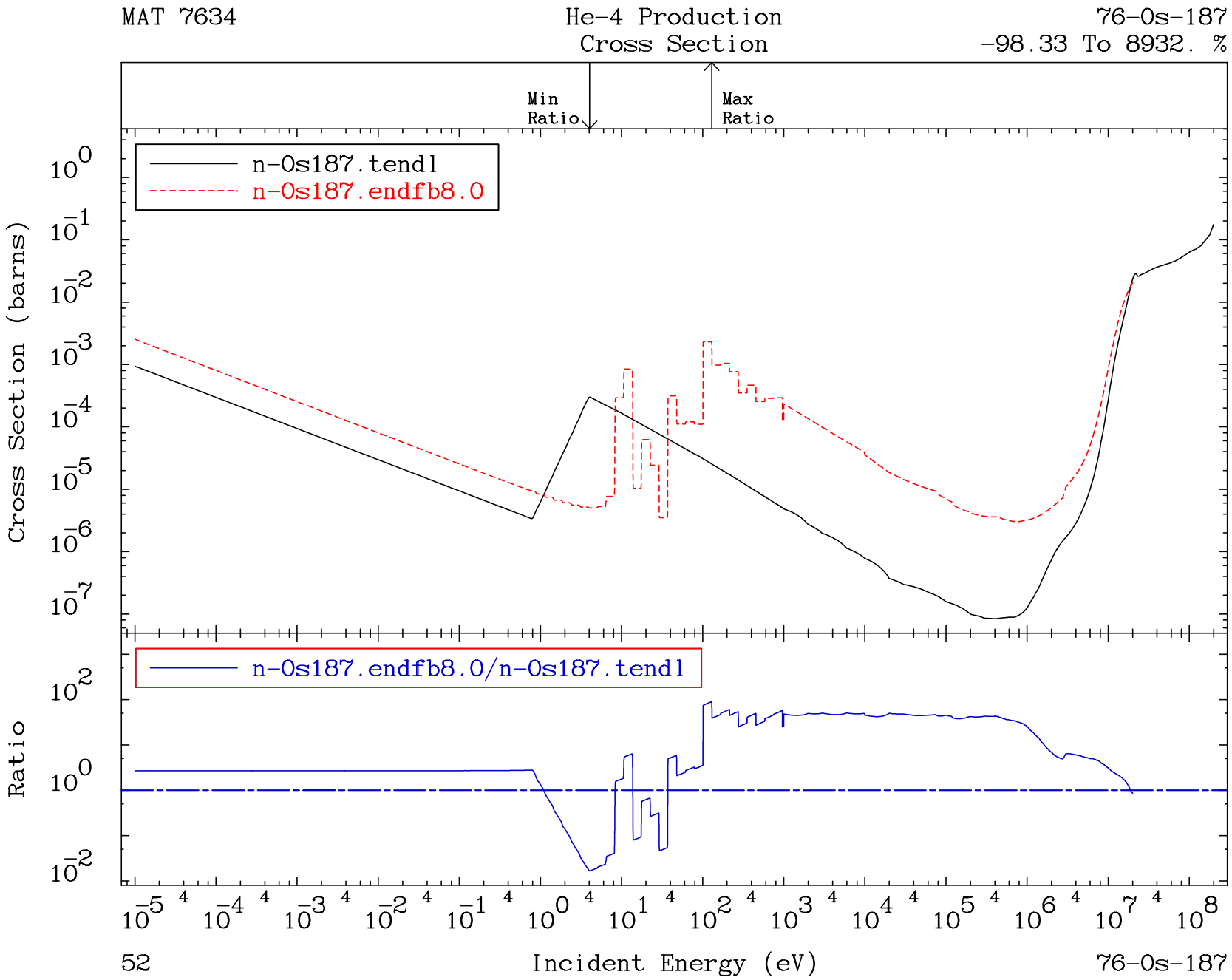

MAT 7634
(n,α)
Cross Section
76-0s-187
-98.33 To 8932. %
Min Ratio
Max Ratio
n-0s187.tendl
n-0s187.endfb8.0
Cross Section (barns)
n-0s187.endfb8.0/n-0s187.tendl
Ratio
Incident Energy (eV)
47
76-0s-187

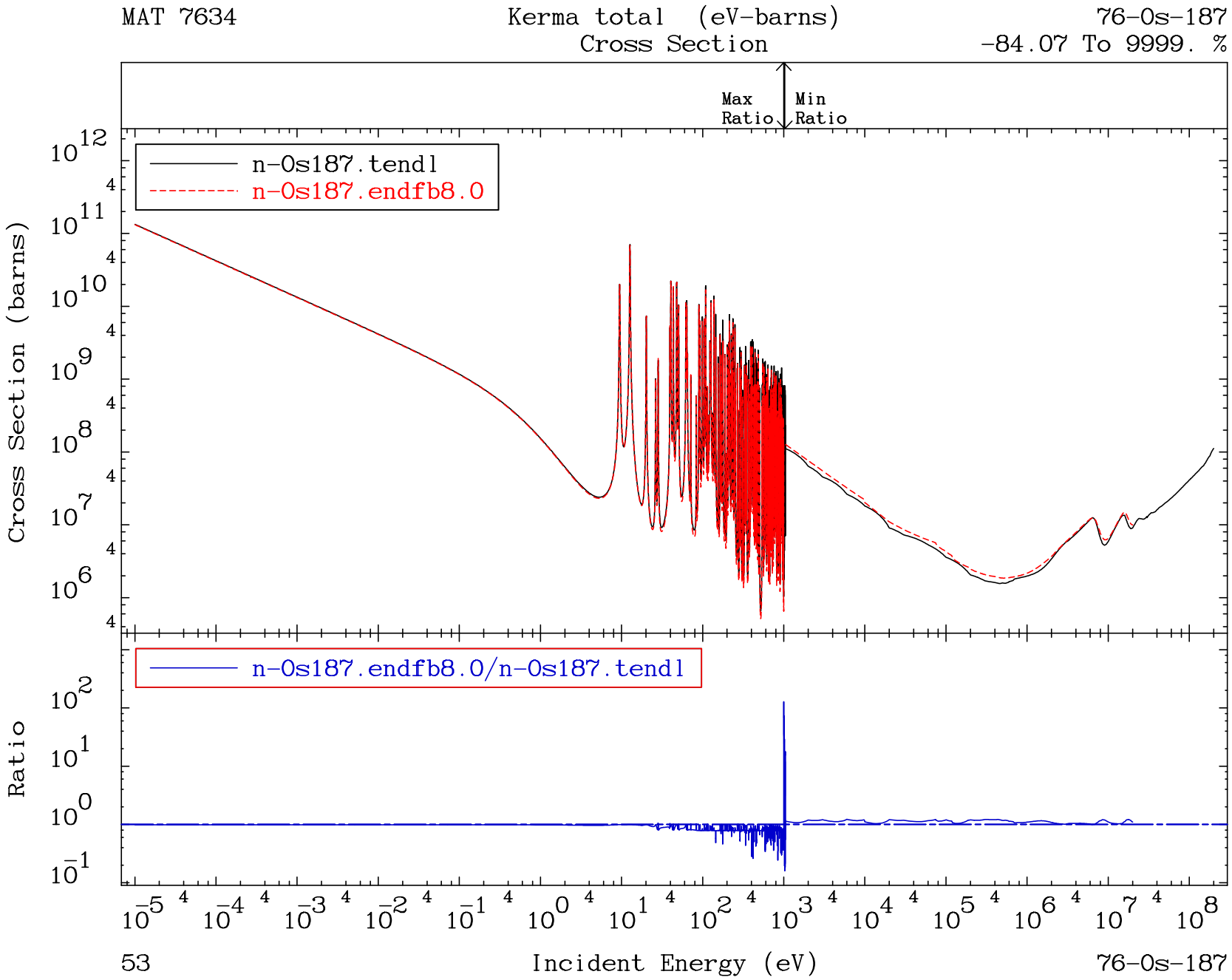

MAT 7634
Hydrogen Production
Cross Section
76-0s-187
-100.0 To 34.22 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 1.0481 keV
n-0s187.endfb8.0 Threshold 36.884 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^0
10^-2
10^-4
10^3
10^4
10^5
10^6
10^7
10^8
48
Incident Energy (eV)
76-0s-187

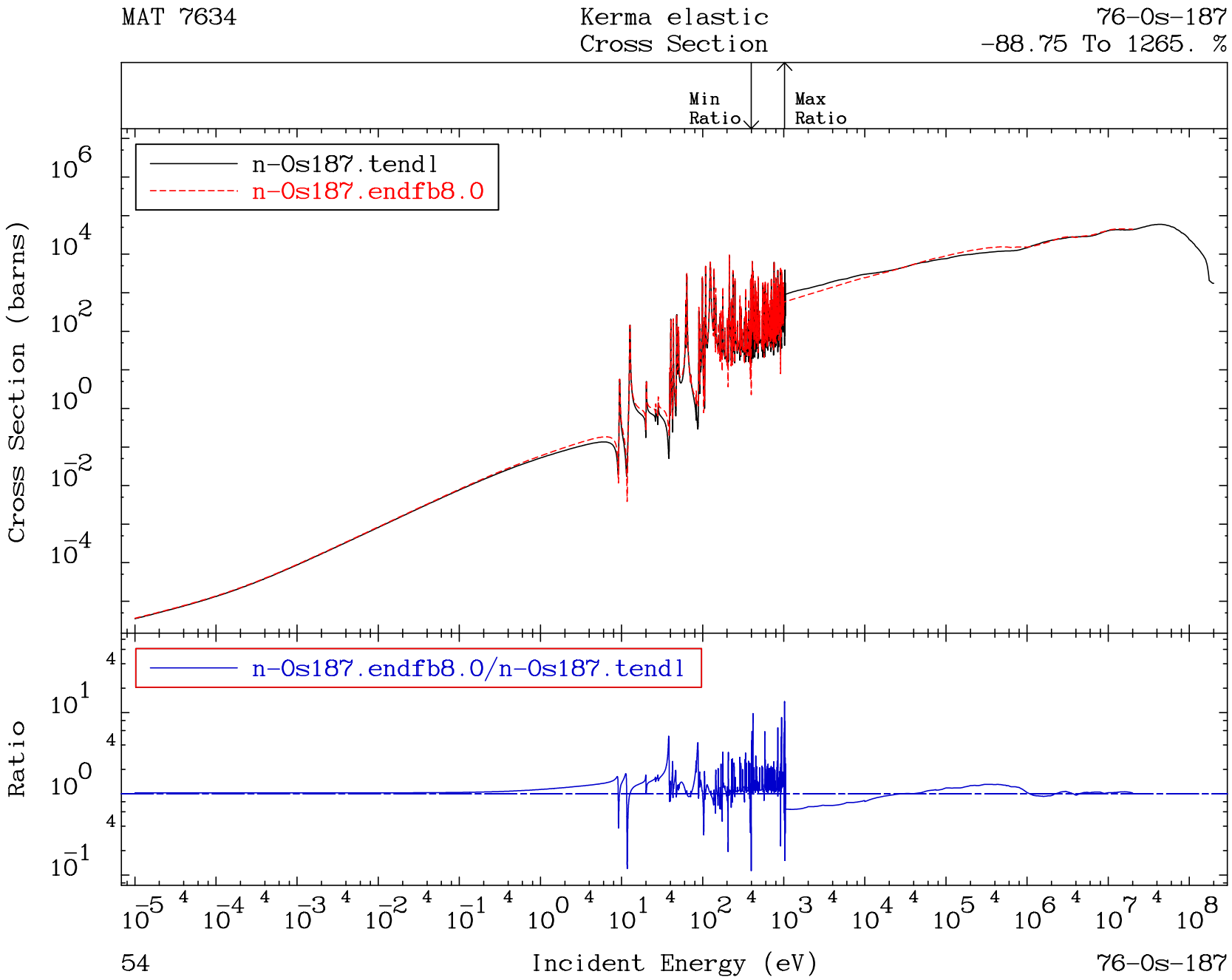

MAT 7634
Deuterium Production
Cross Section
76-0s-187
-100.0 To 9999. %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 2.2906 MeV
n-0s187.endfb8.0 Threshold 4.3759 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^5
10^0
10^-5
10^-10
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
49
Incident Energy (eV)
76-0s-187

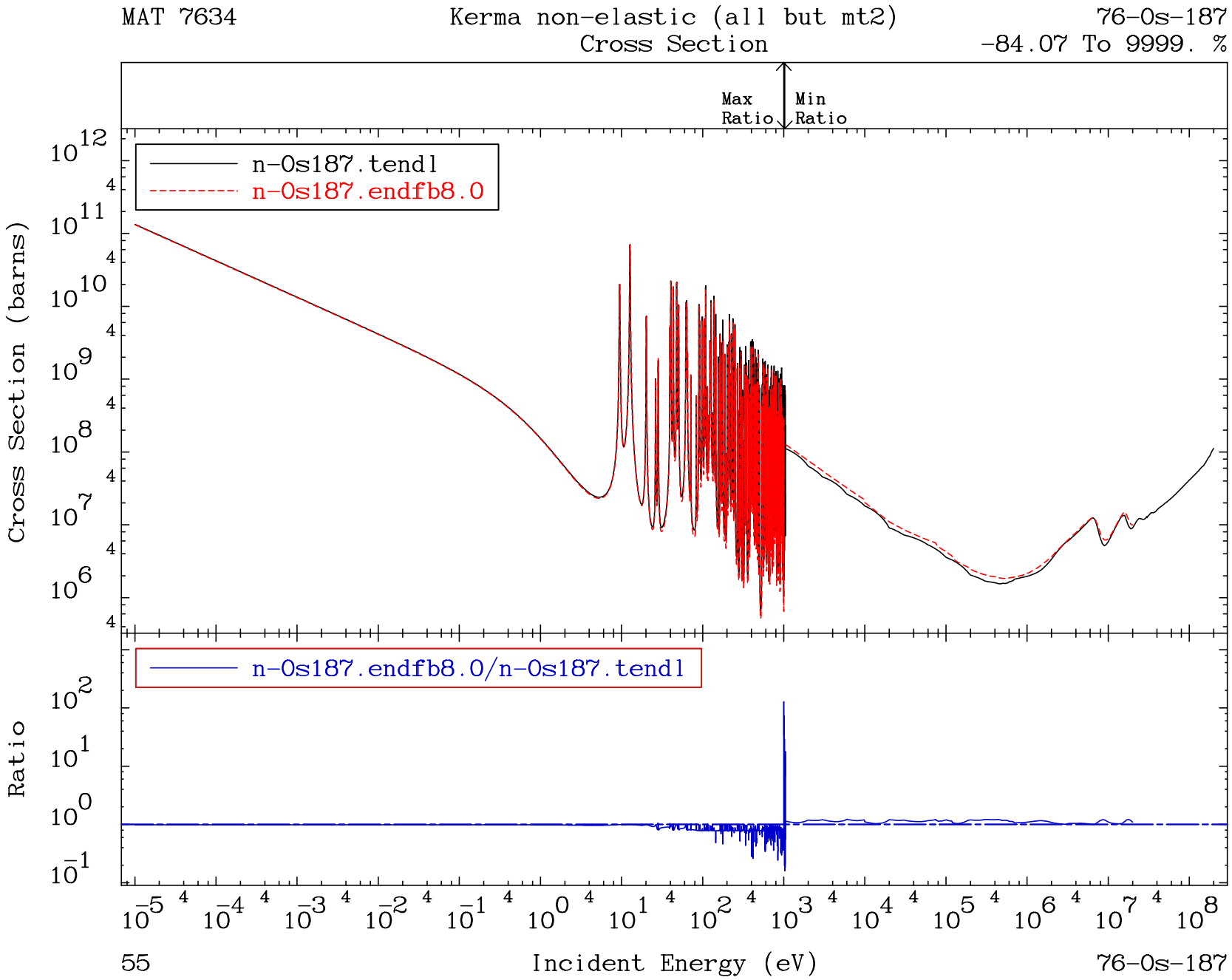

MAT 7634
Tritium Production
Cross Section
76-0s-187
-100.0 To 9999. %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 4.3015 MeV
n-0s187.endfb8.0 Threshold 4.2976 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^5
10^0
10^-5
10^-10
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
50
Incident Energy (eV)
76-0s-187

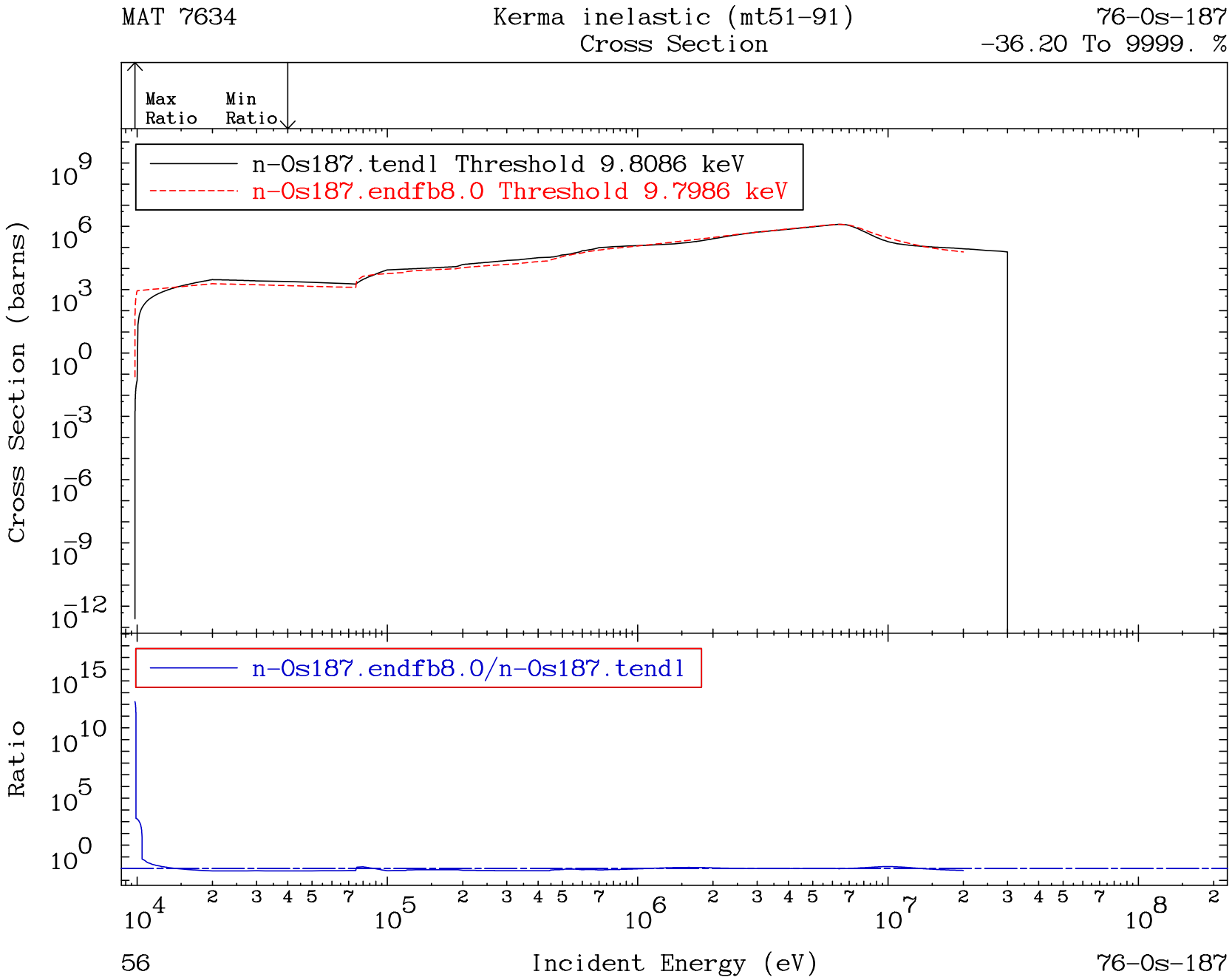

MAT 7634
He-3 Production
Cross Section
76-0s-187
-100.0 To 1094. %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 4.7163 MeV
n-0s187.endfb8.0 Threshold 7.0000 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^0
10^-6
10^-12
10^-18
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
51
Incident Energy (eV)
76-0s-187

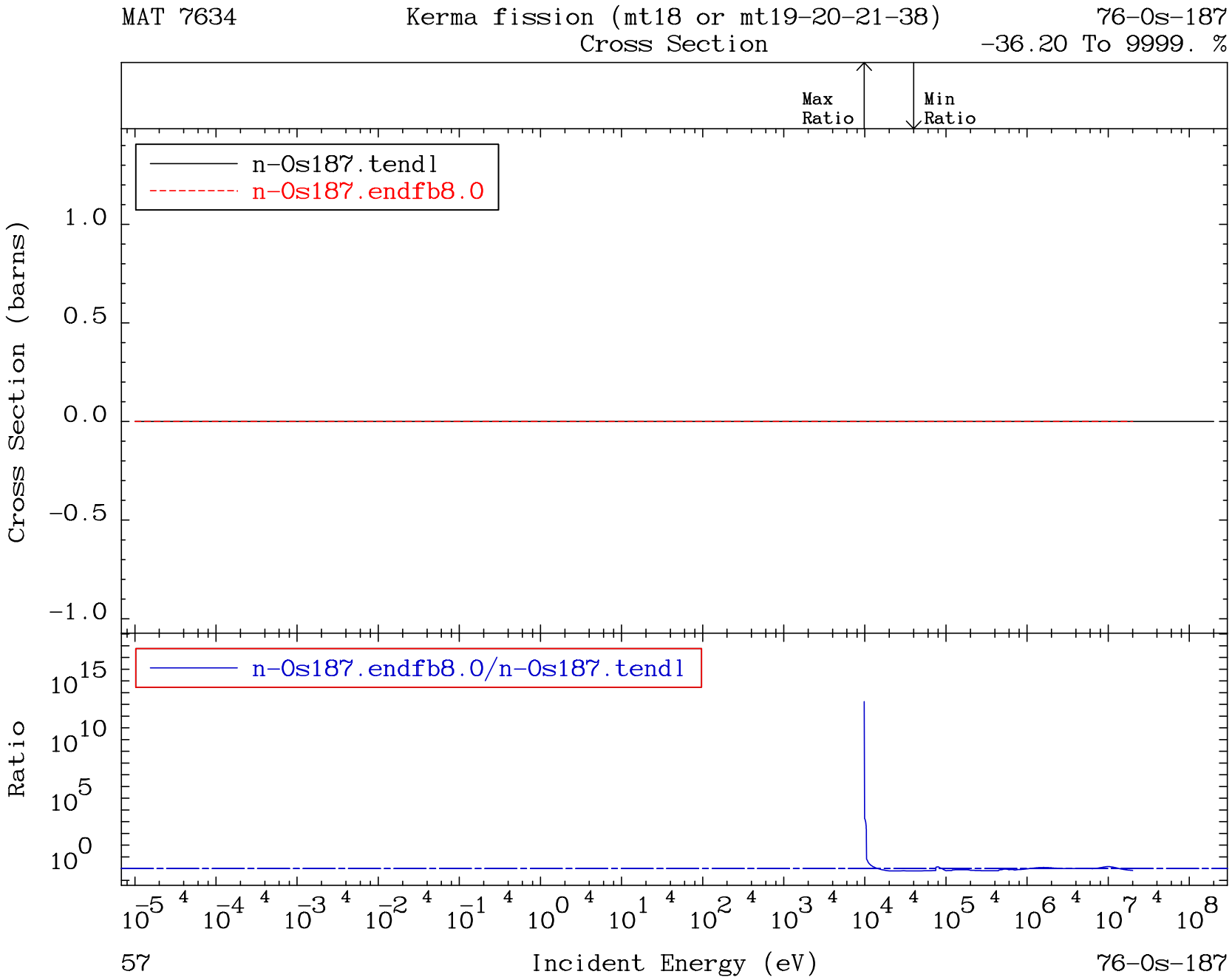

MAT 7634
He-4 Production
Cross Section
76-0s-187
-98.33 To 8932. %
Min Ratio
Max Ratio
n-0s187.tendl
n-0s187.endfb8.0
Cross Section (barns)
n-0s187.endfb8.0/n-0s187.tendl
Ratio
Incident Energy (eV)
52
76-0s-187

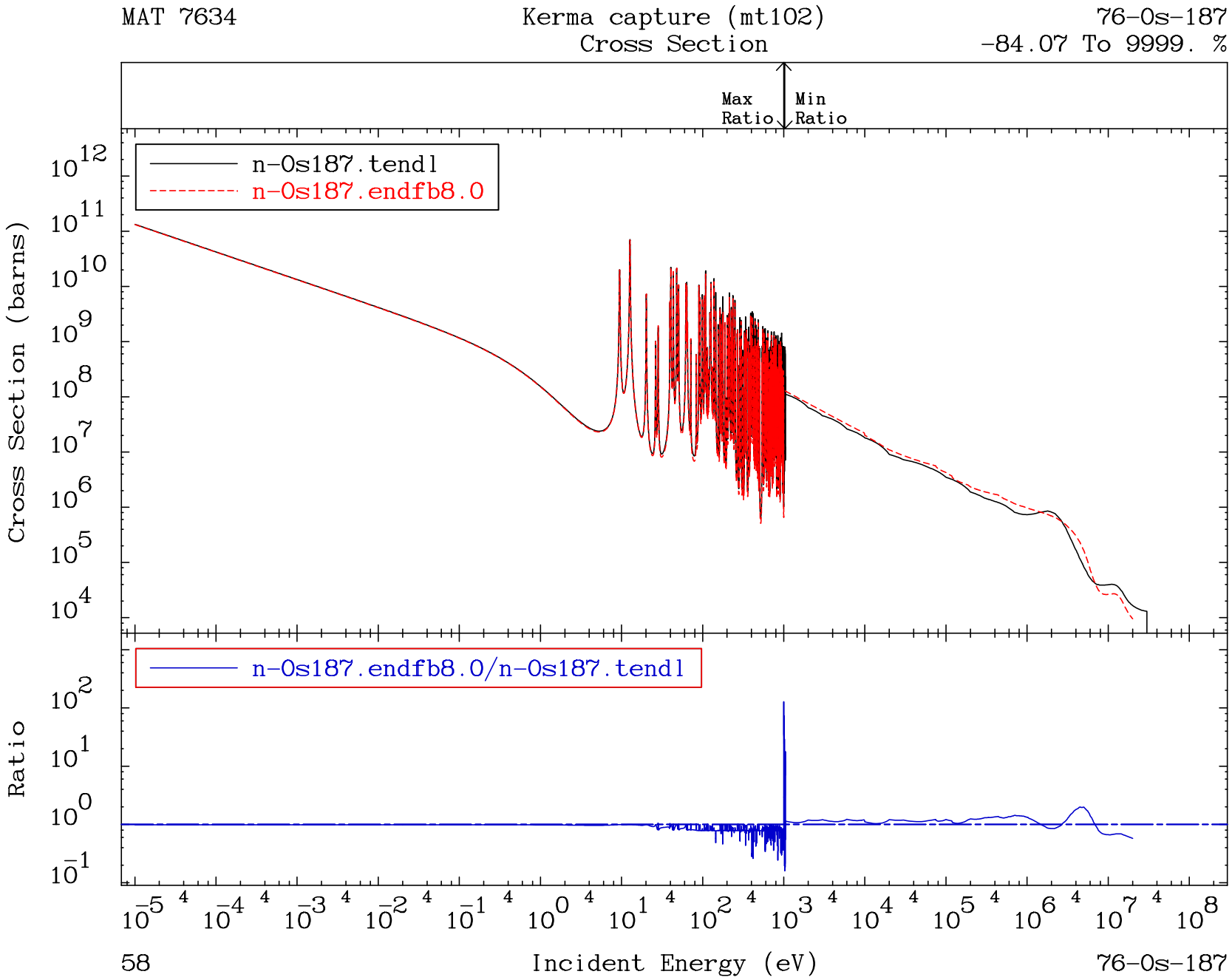

MAT 7634
Kerma total (eV-barns)
Cross Section
76-0s-187
-84.07 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.endfb8.0
Cross Section (barns)
n-0s187.endfb8.0/n-0s187.tendl
Ratio
Incident Energy (eV)
53
76-0s-187

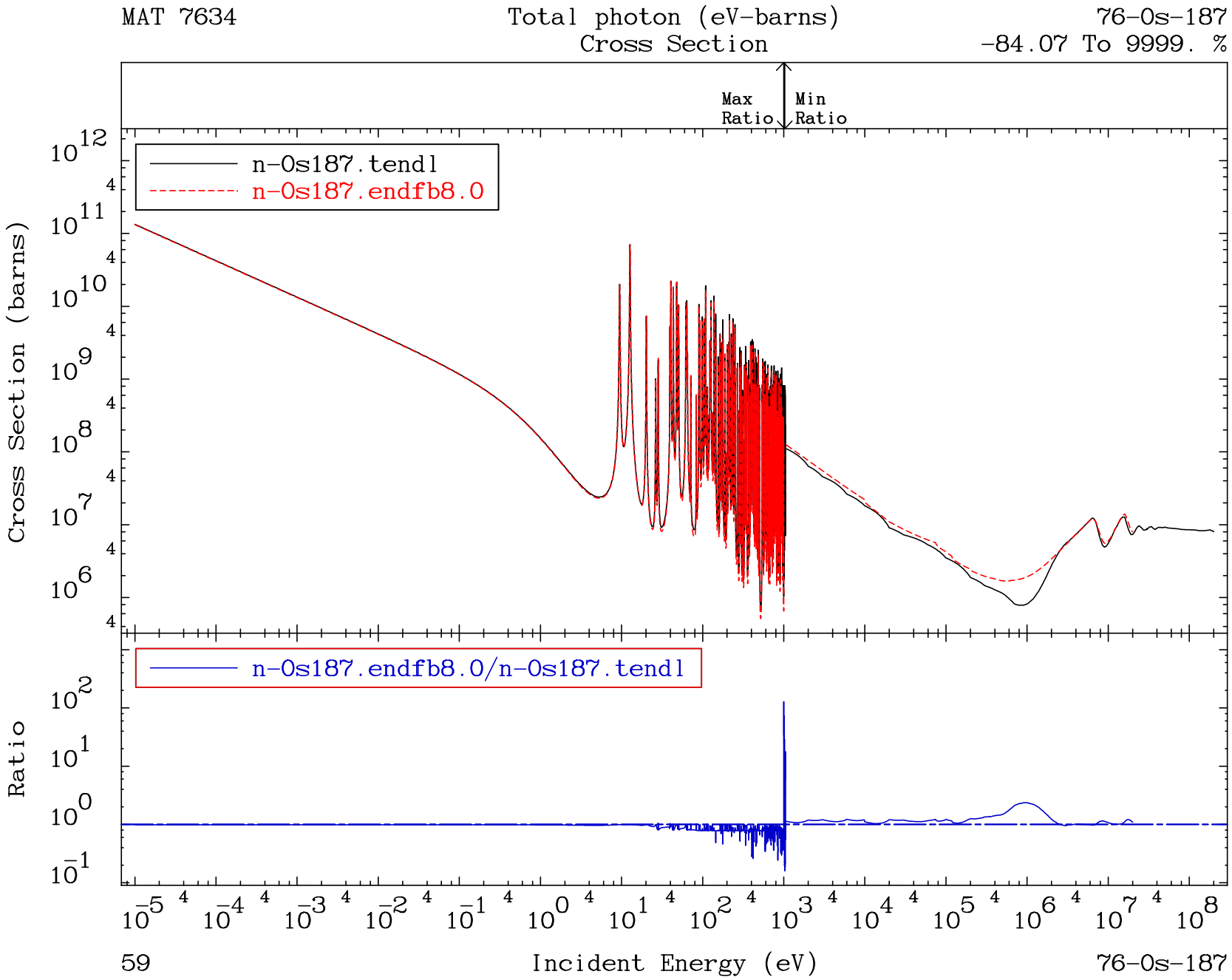

MAT 7634
Kerma elastic
Cross Section
76-0s-187
-88.75 To 1265. %
Min
Ratio
Max
Ratio
n-0s187.tendl
n-0s187.endfb8.0
Cross Section (barns)
n-0s187.endfb8.0/n-0s187.tendl
Ratio
Incident Energy (eV)
54
76-0s-187

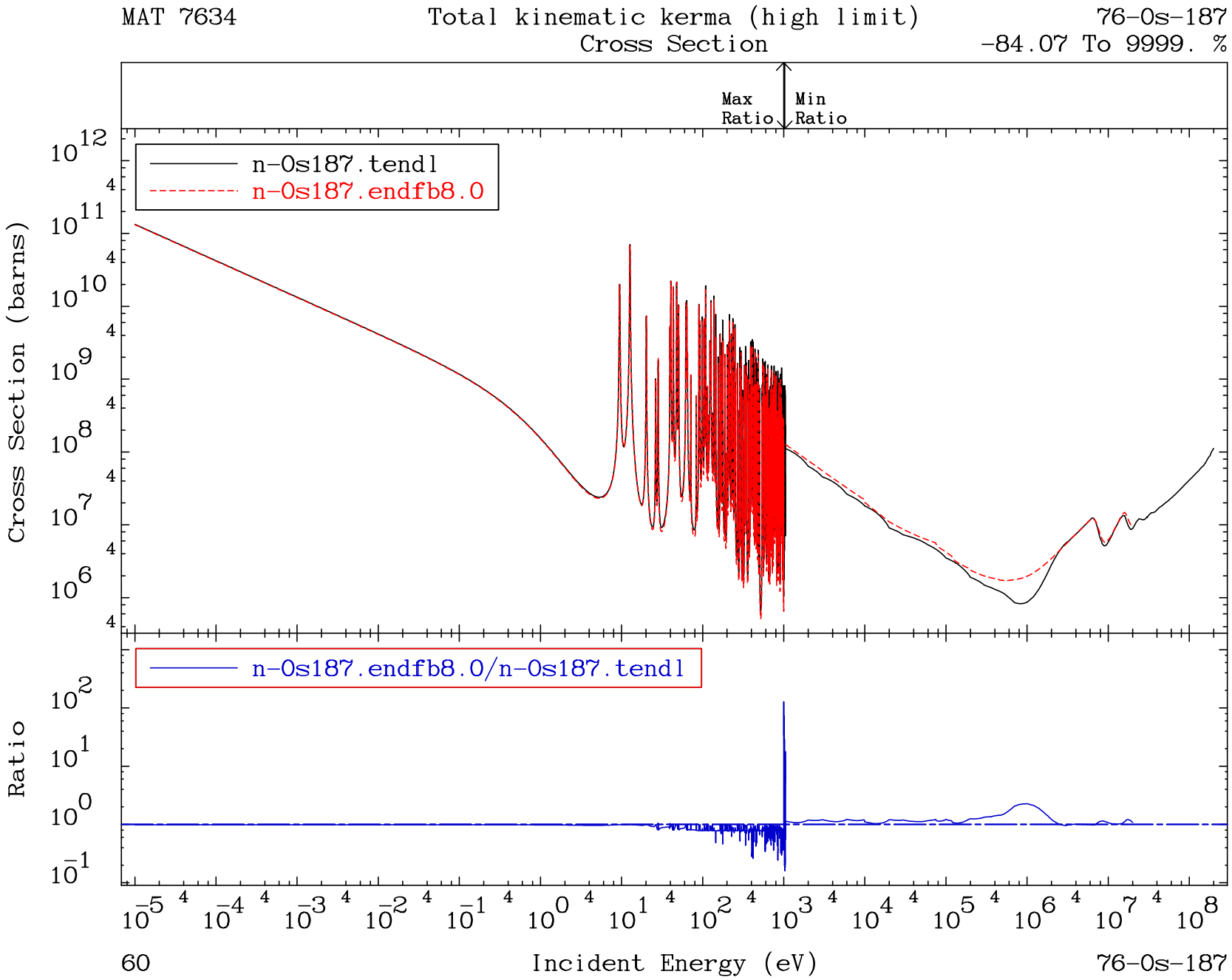

MAT 7634
Kerma non-elastic (all but mt2)
Cross Section
76-0s-187
-84.07 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.endfb8.0
Cross Section (barns)
n-0s187.endfb8.0/n-0s187.tendl
Ratio
Incident Energy (eV)
55
76-0s-187

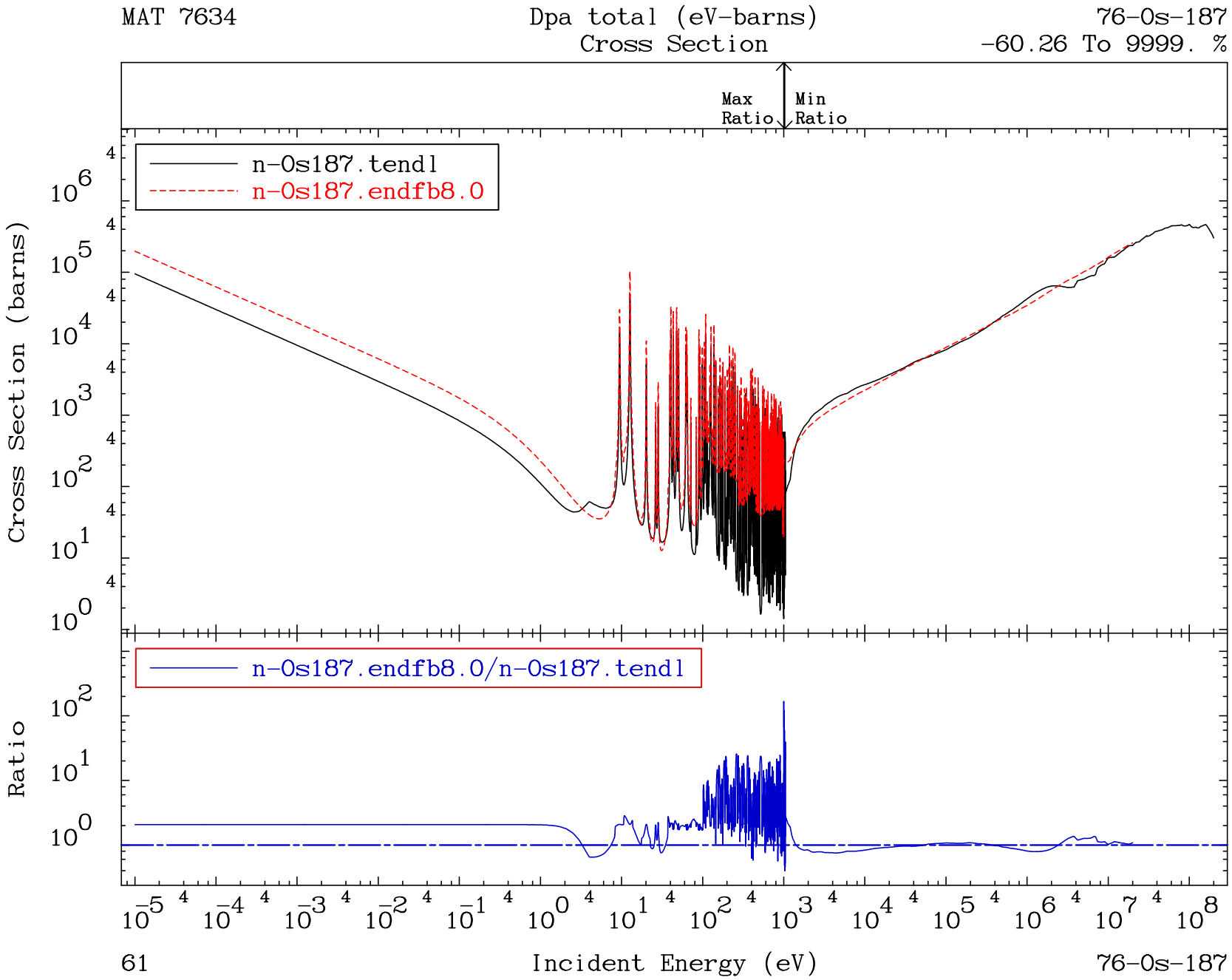

MAT 7634
Kerma inelastic (mt51-91)
Cross Section
76-0s-187
-36.20 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 9.8086 keV
n-0s187.endfb8.0 Threshold 9.7986 keV
Cross Section (barns)
n-0s187.endfb8.0/n-0s187.tendl
Ratio
Incident Energy (eV)
56
76-0s-187

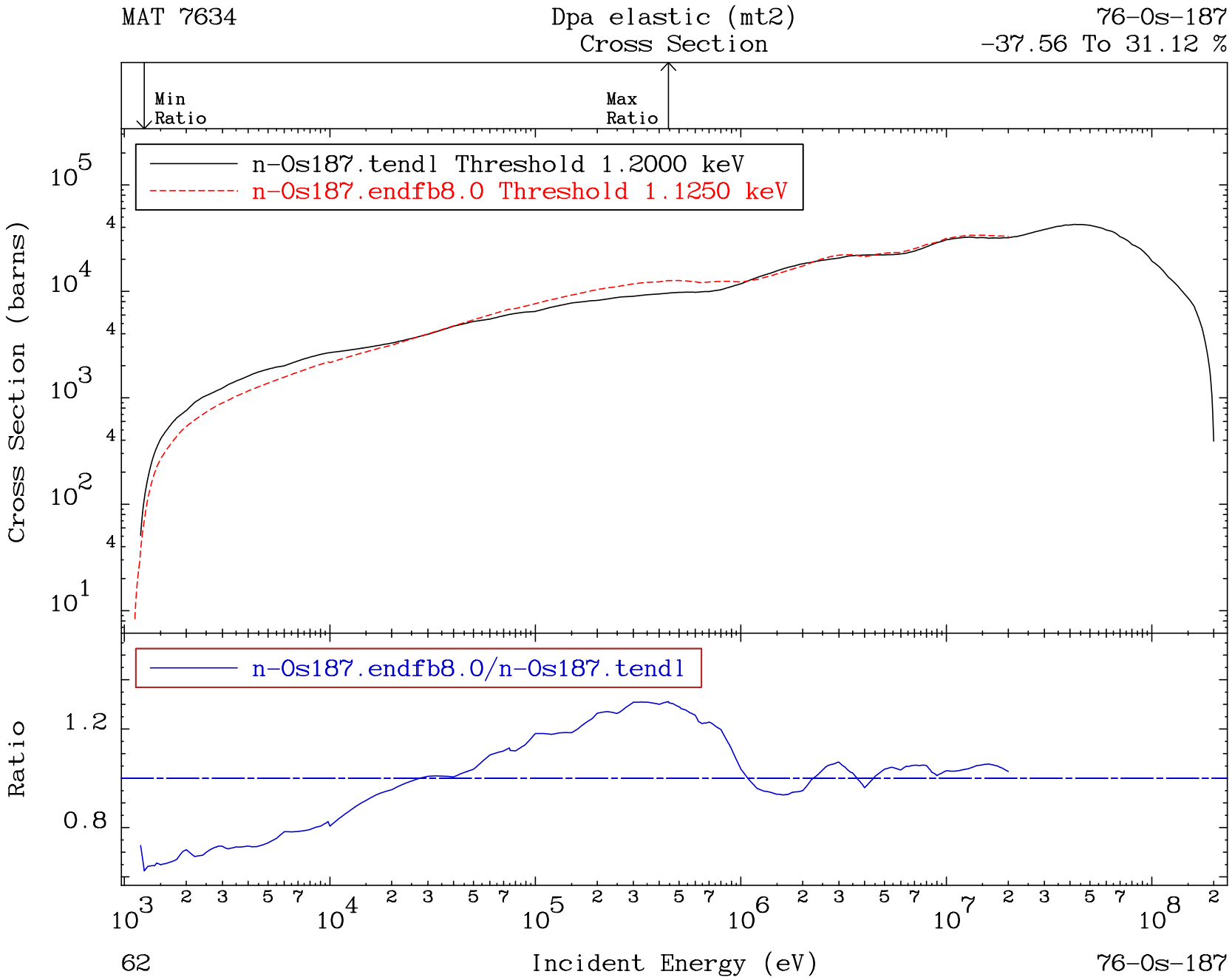

MAT 7634
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
76-0s-187
-36.20 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-0s187.endfb8.0/n-0s187.tendl
Ratio
10^15
10^10
10^5
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
57
Incident Energy (eV)
76-0s-187

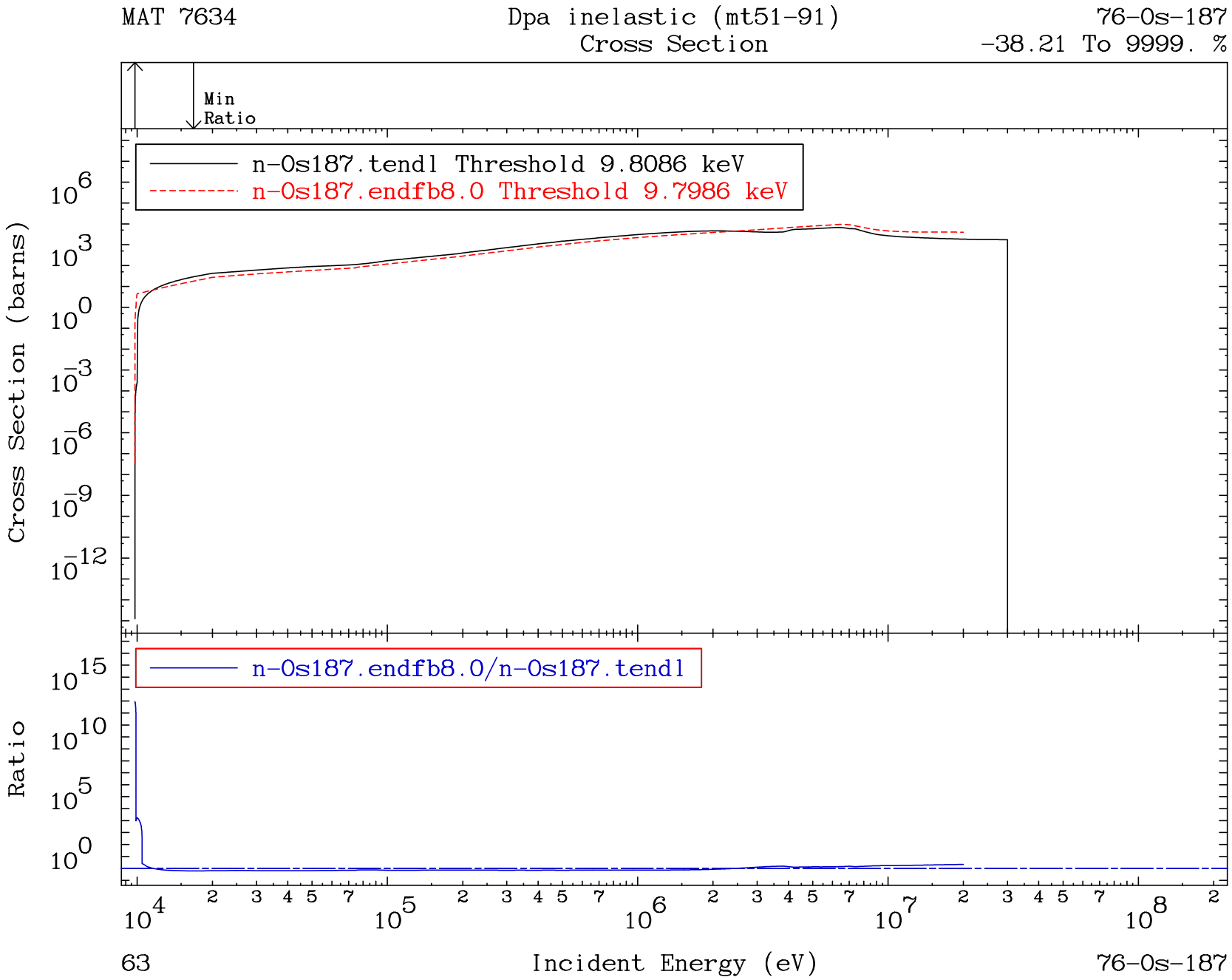

MAT 7634
Kerma capture (mt102)
Cross Section
76-0s-187
-84.07 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.endfb8.0
Cross Section (barns)
n-0s187.endfb8.0/n-0s187.tendl
Ratio
Incident Energy (eV)
58
76-0s-187

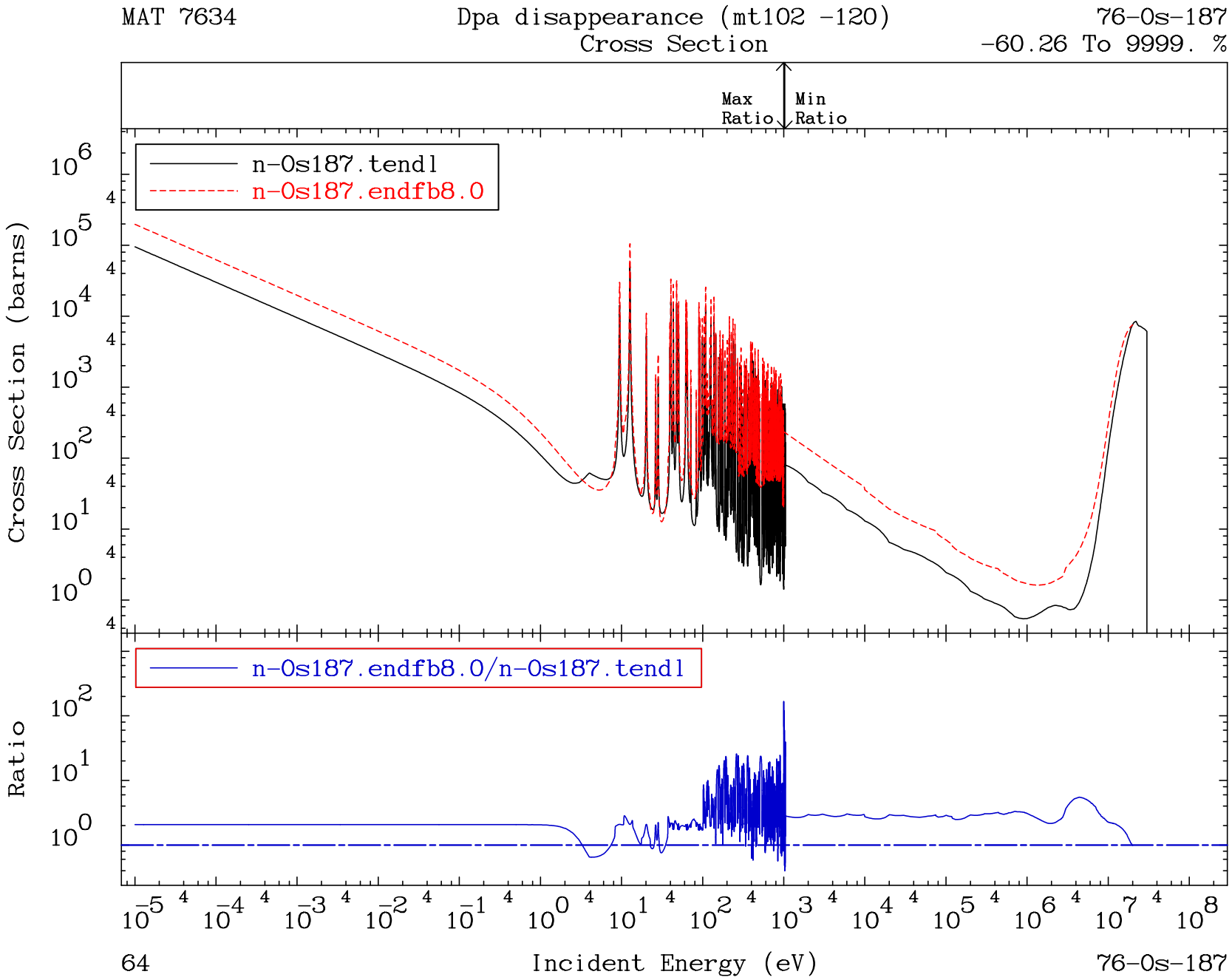

MAT 7634
Total photon (eV-barns)
Cross Section
76-0s-187
-84.07 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.endfb8.0
Cross Section (barns)
n-0s187.endfb8.0/n-0s187.tendl
Ratio
Incident Energy (eV)
59
76-0s-187


MAT 7634
Total kinematic kerma (high limit)
Cross Section
76-0s-187
-84.07 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.endfb8.0
Cross Section (barns)
n-0s187.endfb8.0/n-0s187.tendl
Ratio
Incident Energy (eV)
60
76-0s-187


MAT 7634
Dpa total (eV-barns)
Cross Section
76-0s-187
-60.26 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.endfb8.0
Cross Section (barns)
n-0s187.endfb8.0/n-0s187.tendl
Ratio
Incident Energy (eV)
61
76-0s-187


MAT 7634
Dpa elastic (mt2)
Cross Section
76-0s-187
-37.56 To 31.12 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 1.2000 keV
n-0s187.endfb8.0 Threshold 1.1250 keV
Cross Section (barns)
n-0s187.endfb8.0/n-0s187.tendl
Ratio
Incident Energy (eV)
62
76-0s-187


MAT 7634
Dpa inelastic (mt51-91)
Cross Section
76-0s-187
-38.21 To 9999. %
Min
Ratio
n-0s187.tendl Threshold 9.8086 keV
n-0s187.endfb8.0 Threshold 9.7986 keV
Cross Section (barns)
n-0s187.endfb8.0/n-0s187.tendl
Ratio
Incident Energy (eV)
63
76-0s-187


MAT 7634
Dpa disappearance (mt102 -120)
Cross Section
76-0s-187
-60.26 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.endfb8.0
Cross Section (barns)
n-0s187.endfb8.0/n-0s187.tendl
Ratio
Incident Energy (eV)
64
76-0s-187