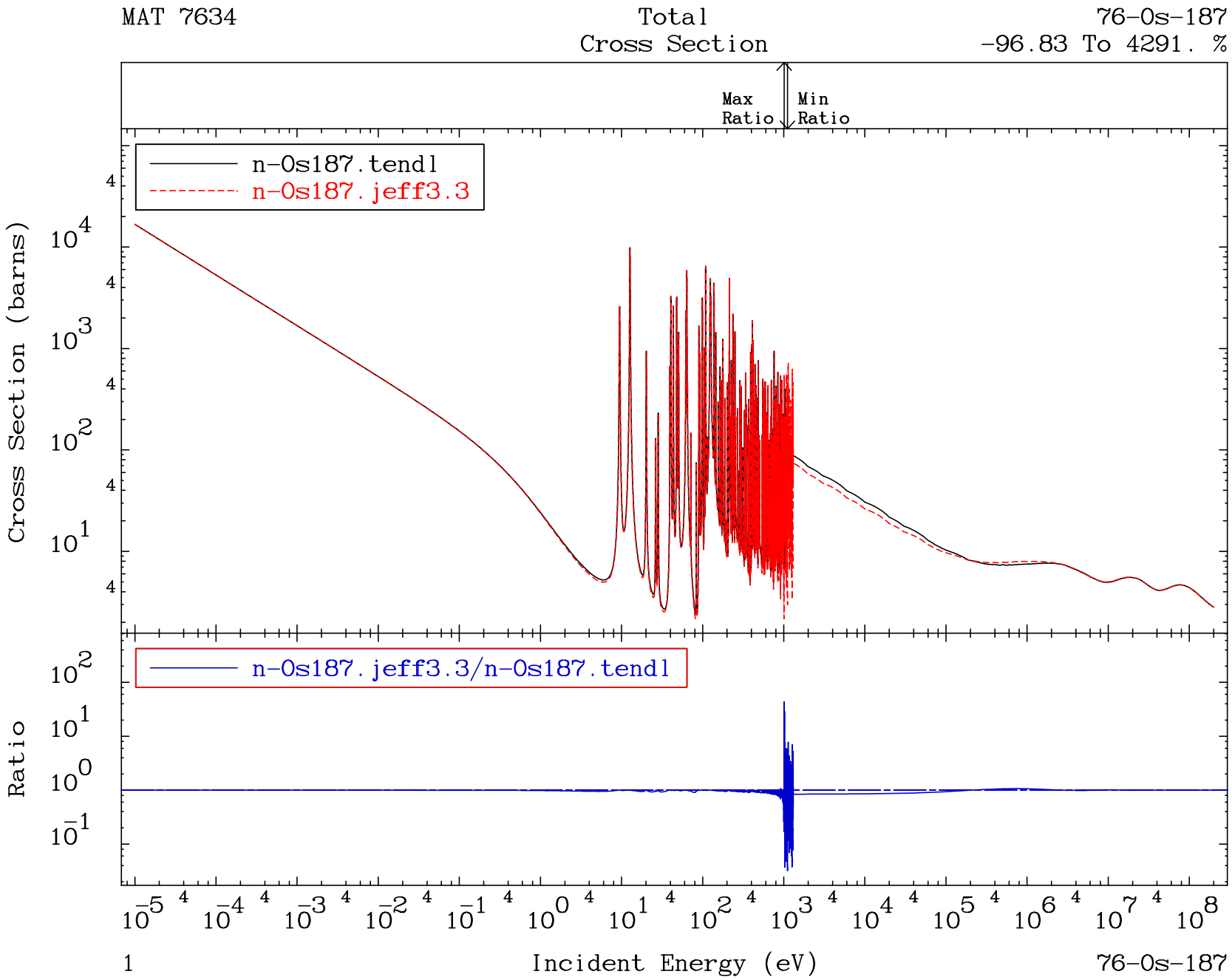
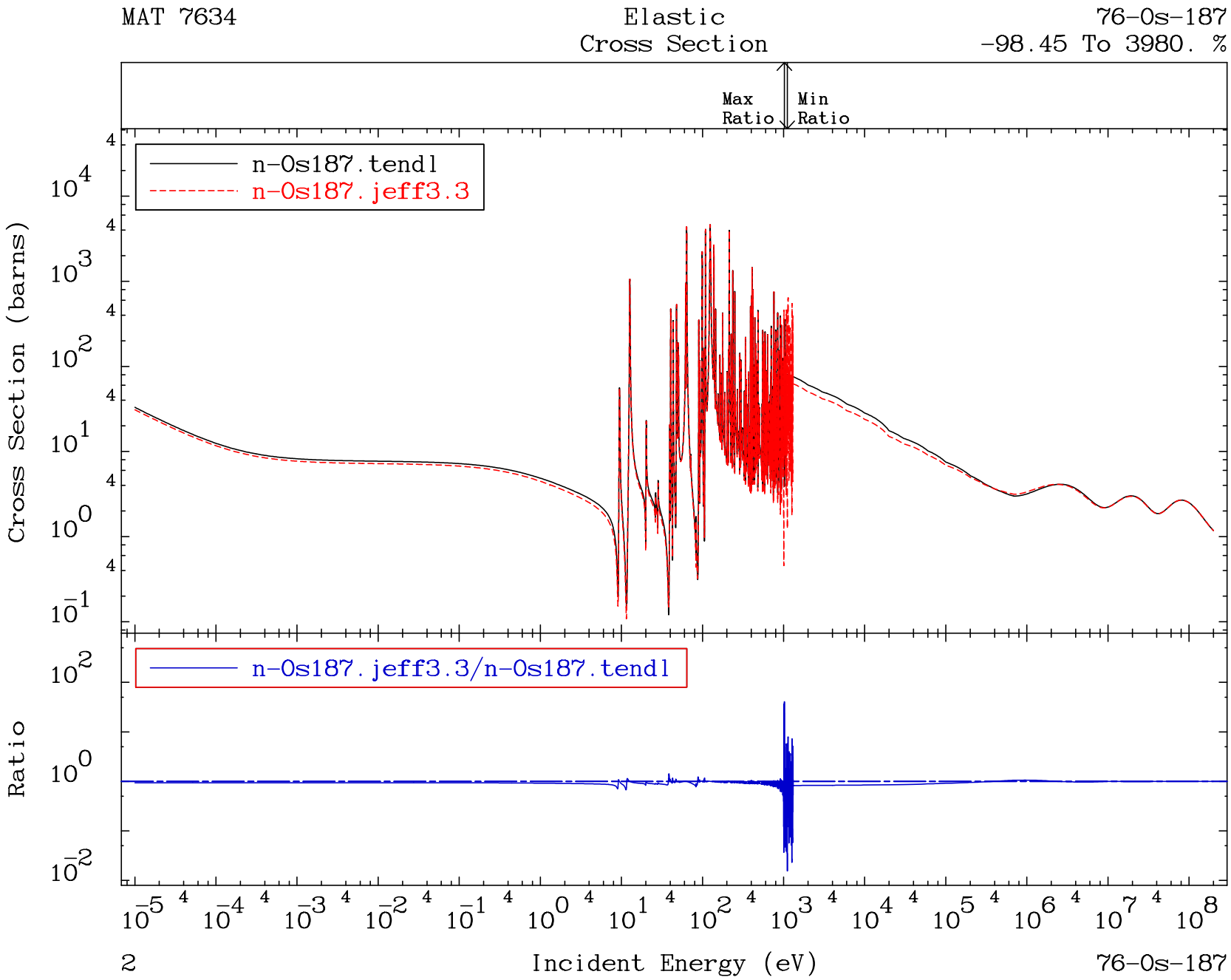
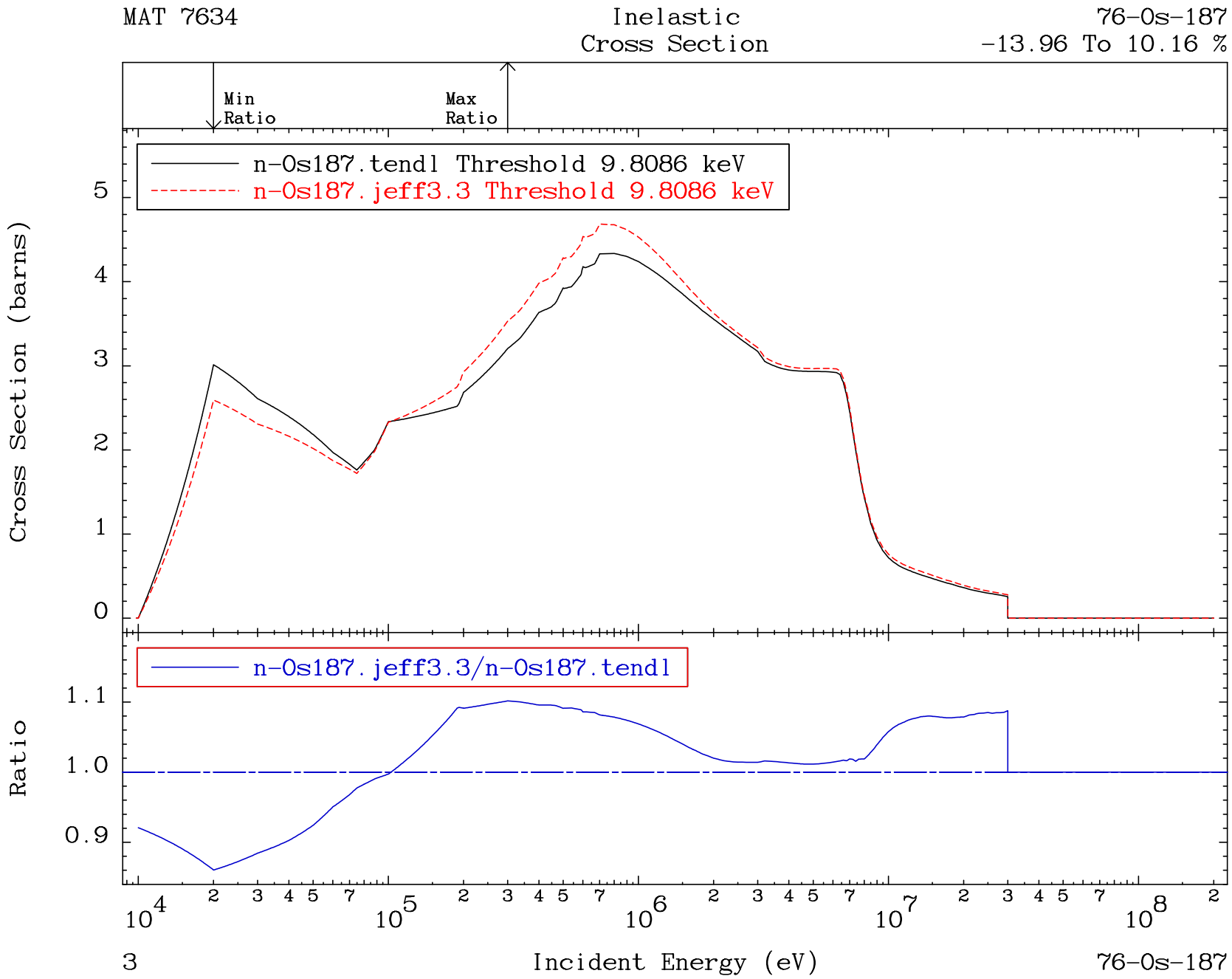
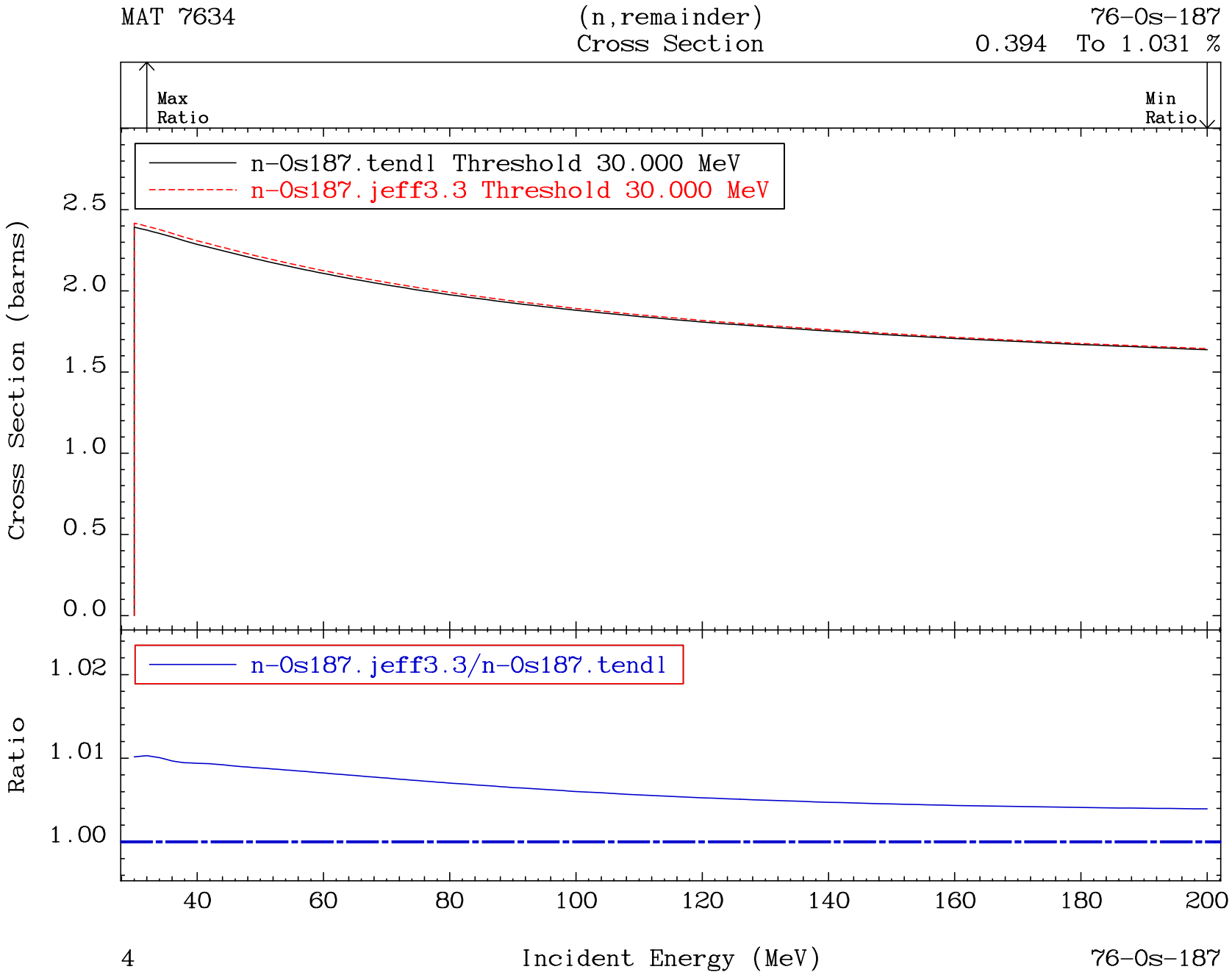
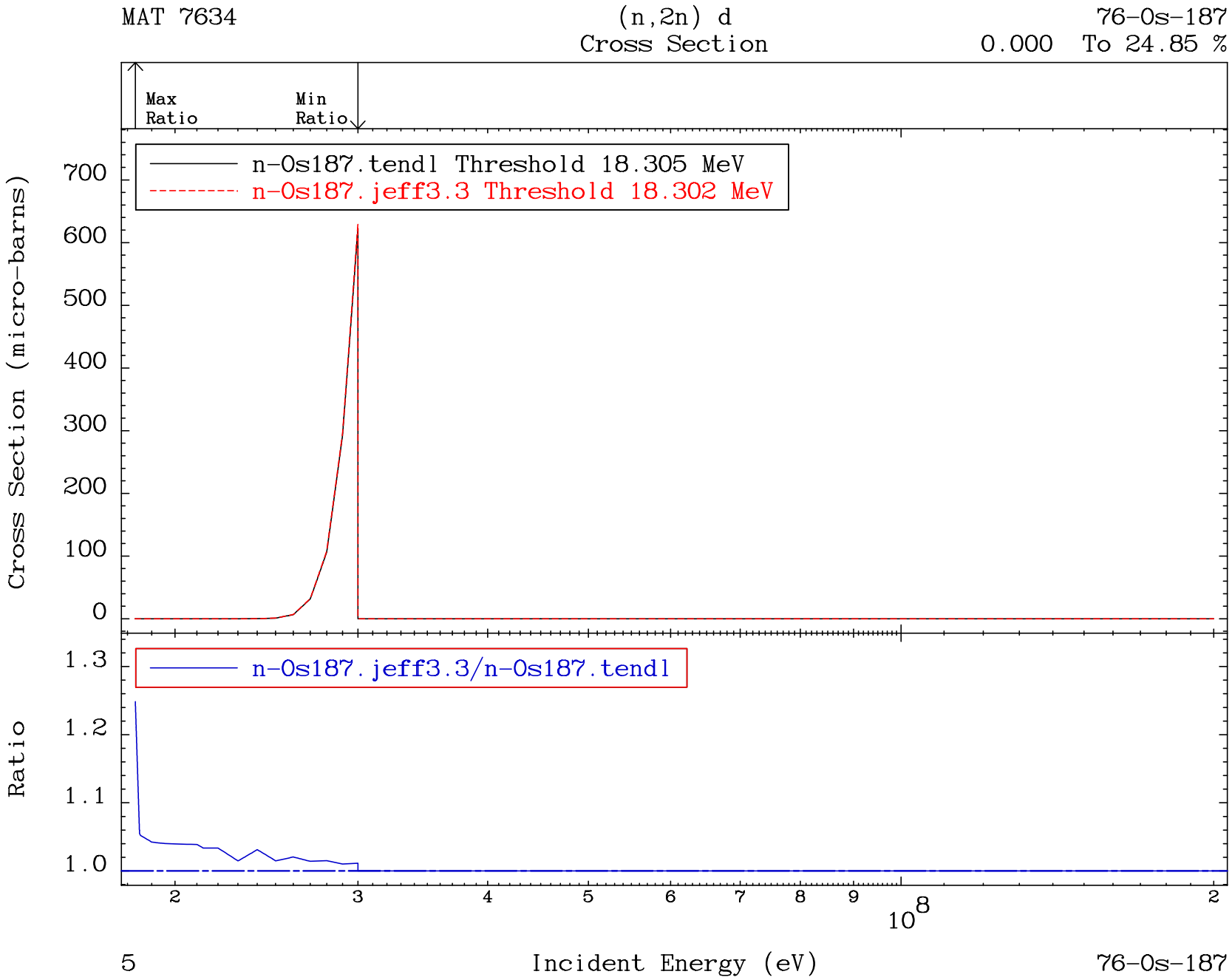
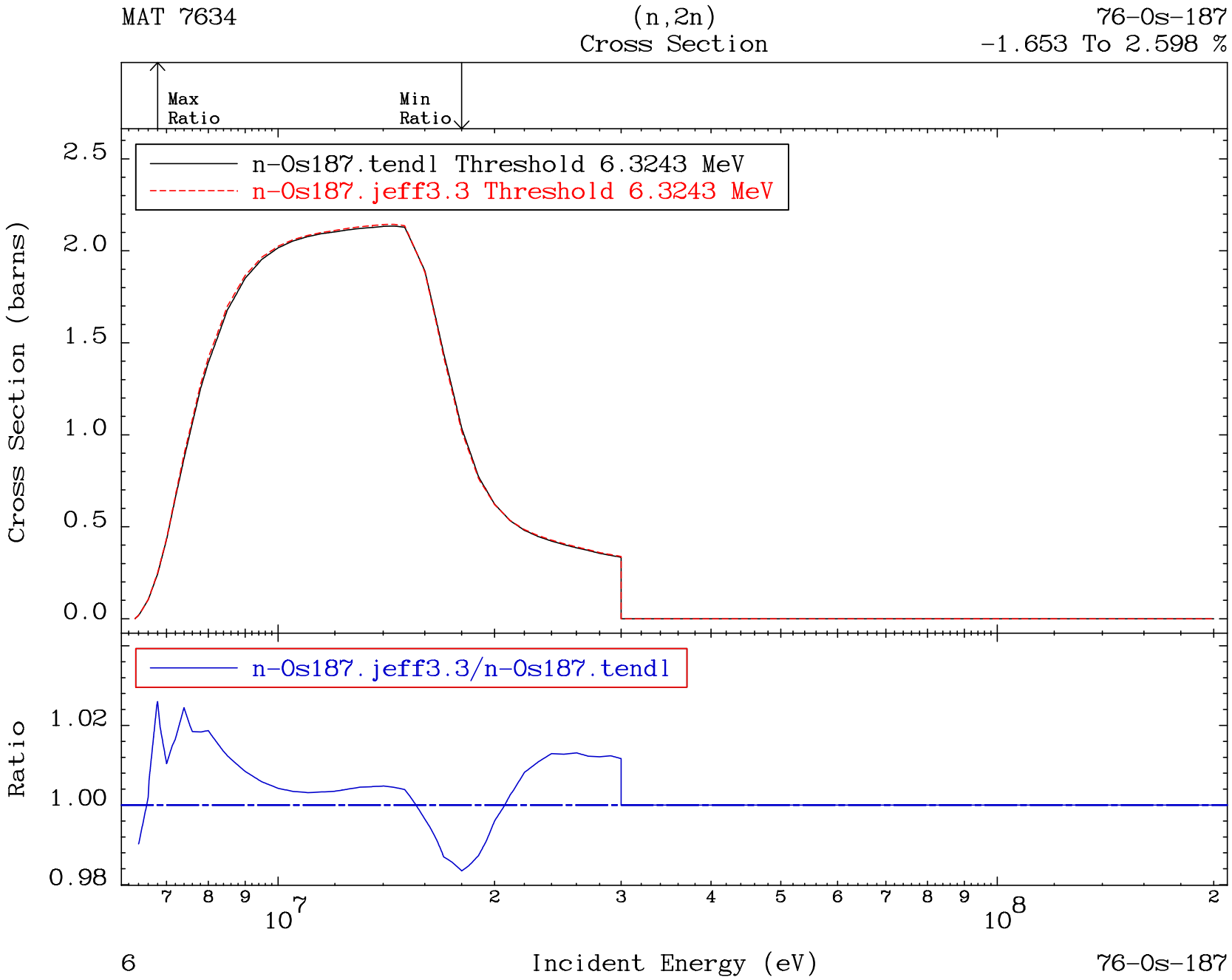

MAT 7634
Total
Cross Section
76-0s-187
-96.83 To 4291. %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.jeff3.3
Cross Section (barns)
n-0s187.jeff3.3/n-0s187.tendl
Ratio
Incident Energy (eV)
1
76-0s-187

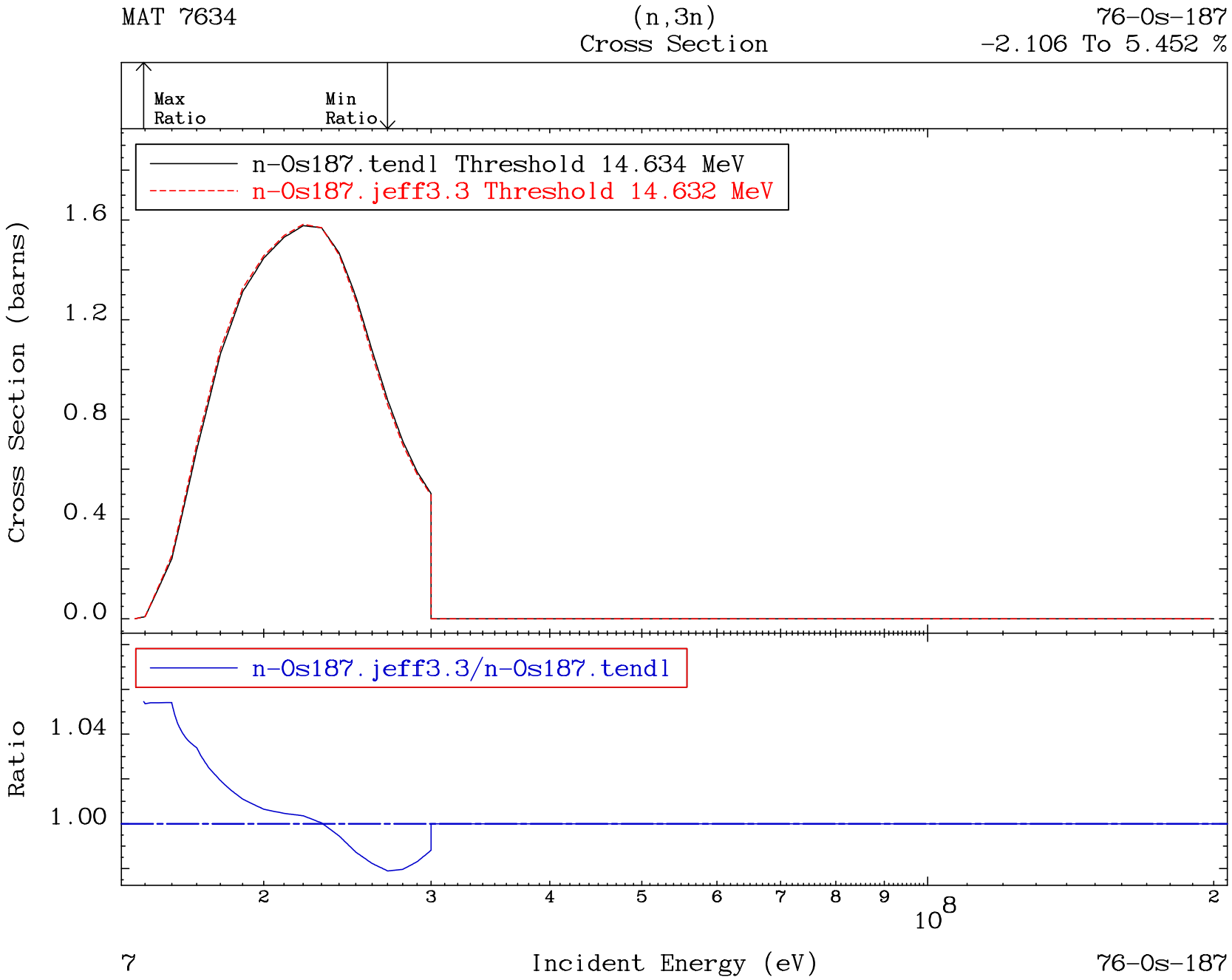

MAT 7634
Elastic
Cross Section
76-0s-187
-98.45 To 3980. %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.jeff3.3
Cross Section (barns)
n-0s187.jeff3.3/n-0s187.tendl
Ratio
Incident Energy (eV)
2
76-0s-187

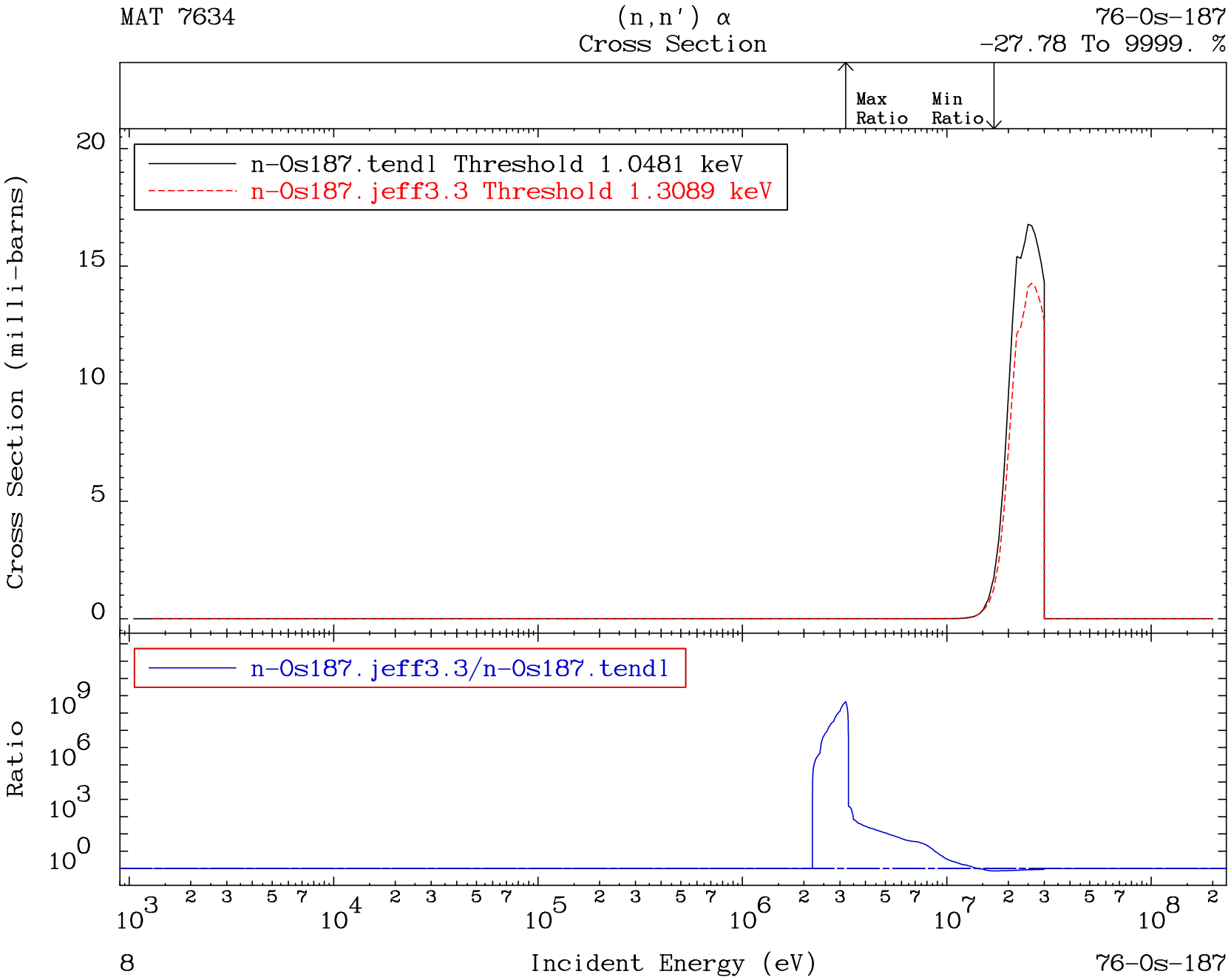

MAT 7634
Inelastic
Cross Section
76-0s-187
-13.96 To 10.16 %
Min
Ratio
Max
Ratio
n-0s187.tendl Threshold 9.8086 keV
n-0s187.jeff3.3 Threshold 9.8086 keV
Cross Section (barns)
0
1
2
3
4
5
n-0s187.jeff3.3/n-0s187.tendl
Ratio
0.9
1.0
1.1
10^4
10^5
10^6
10^7
10^8
Incident Energy (eV)
3
76-0s-187

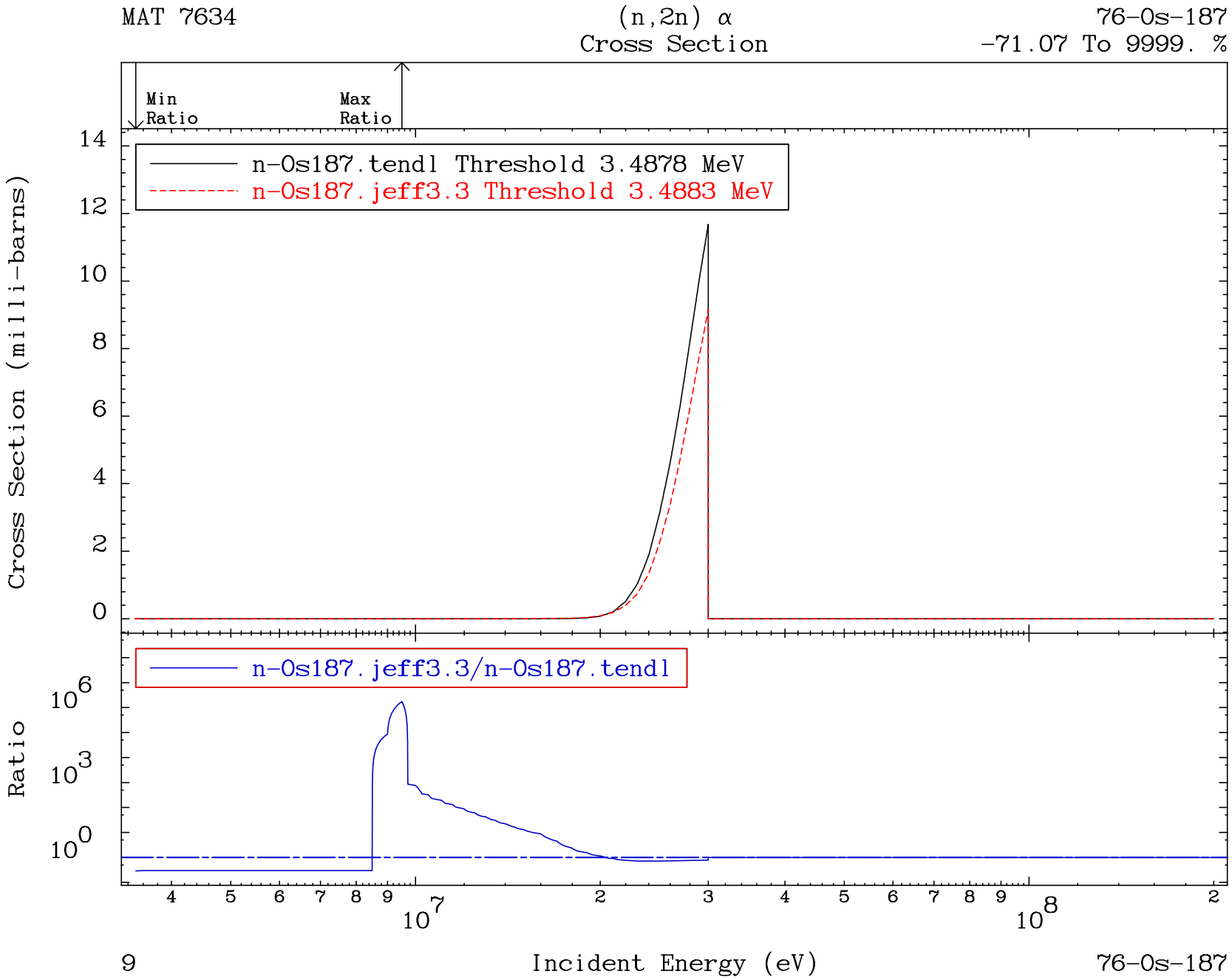

MAT 7634
(n,remainder)
Cross Section
76-0s-187
0.394 To 1.031 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 30.000 MeV
n-0s187.jeff3.3 Threshold 30.000 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.02
1.01
1.00
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
76-0s-187

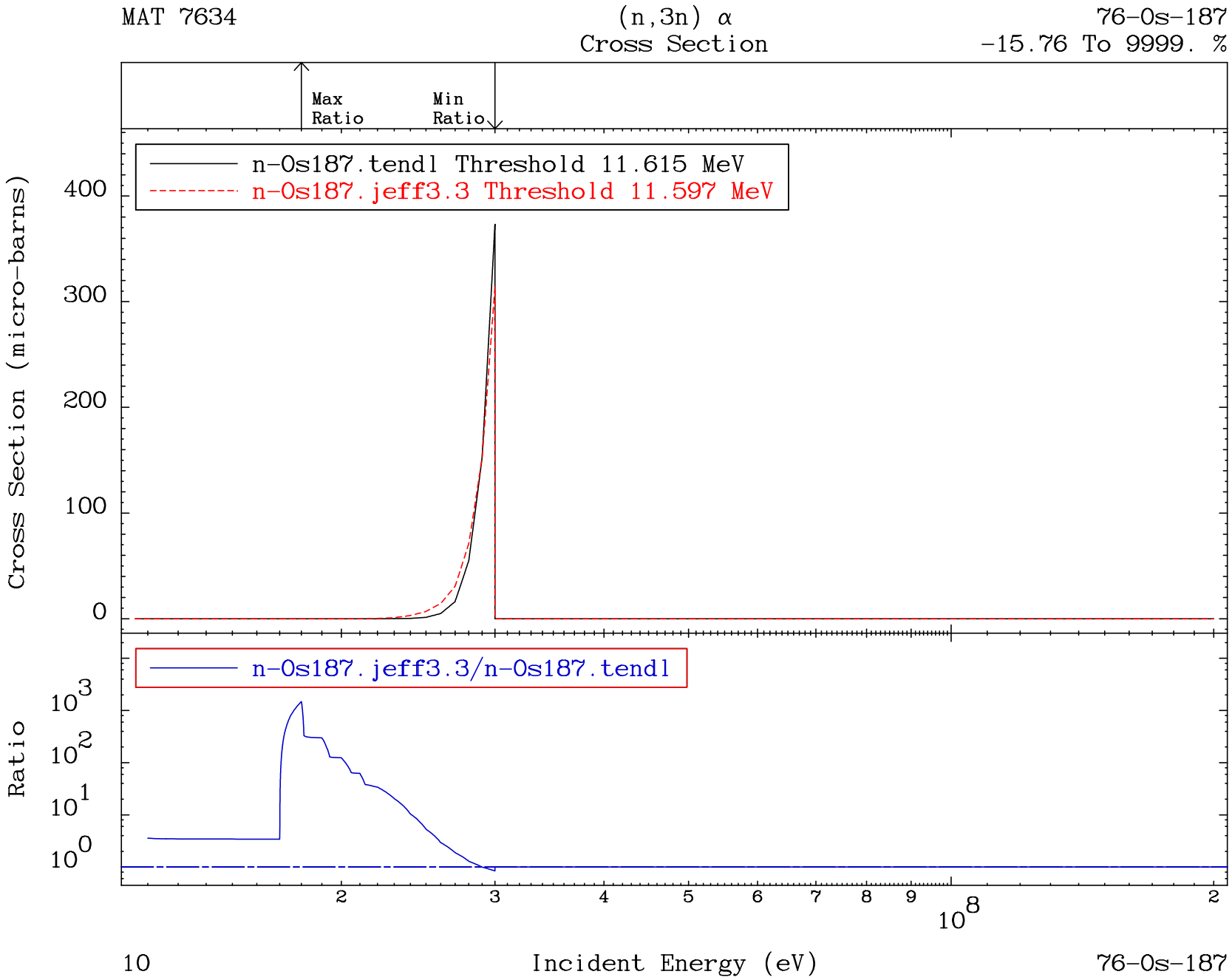

MAT 7634
(n,2n) d
Cross Section
76-0s-187
0.000 To 24.85 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 18.305 MeV
n-0s187.jeff3.3 Threshold 18.302 MeV
Cross Section (micro-barns)
700
600
500
400
300
200
100
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.3
1.2
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
76-0s-187

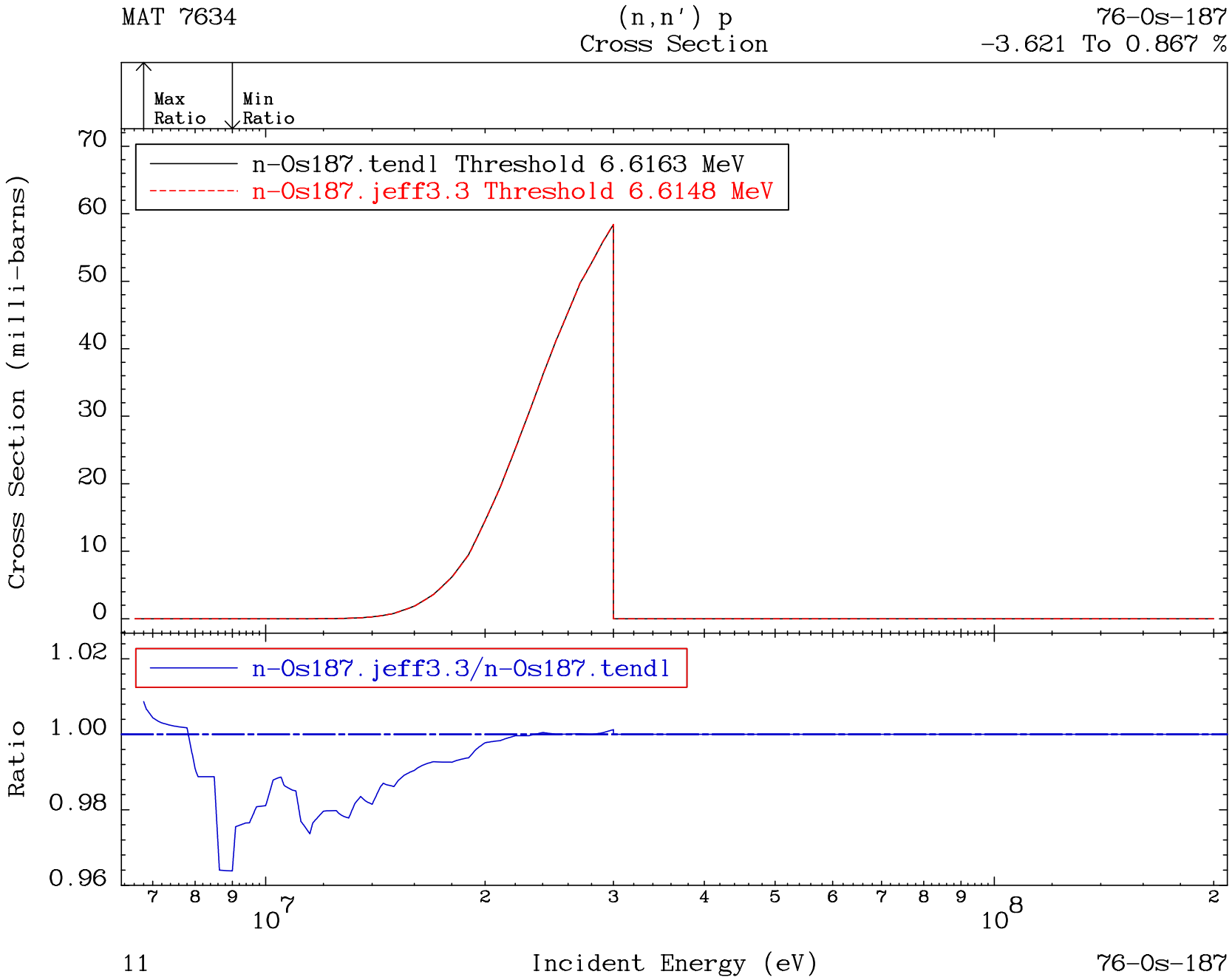

MAT 7634
(n,2n)
Cross Section
76-0s-187
-1.653 To 2.598 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 6.3243 MeV
n-0s187.jeff3.3 Threshold 6.3243 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.02
1.00
0.98
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
76-0s-187

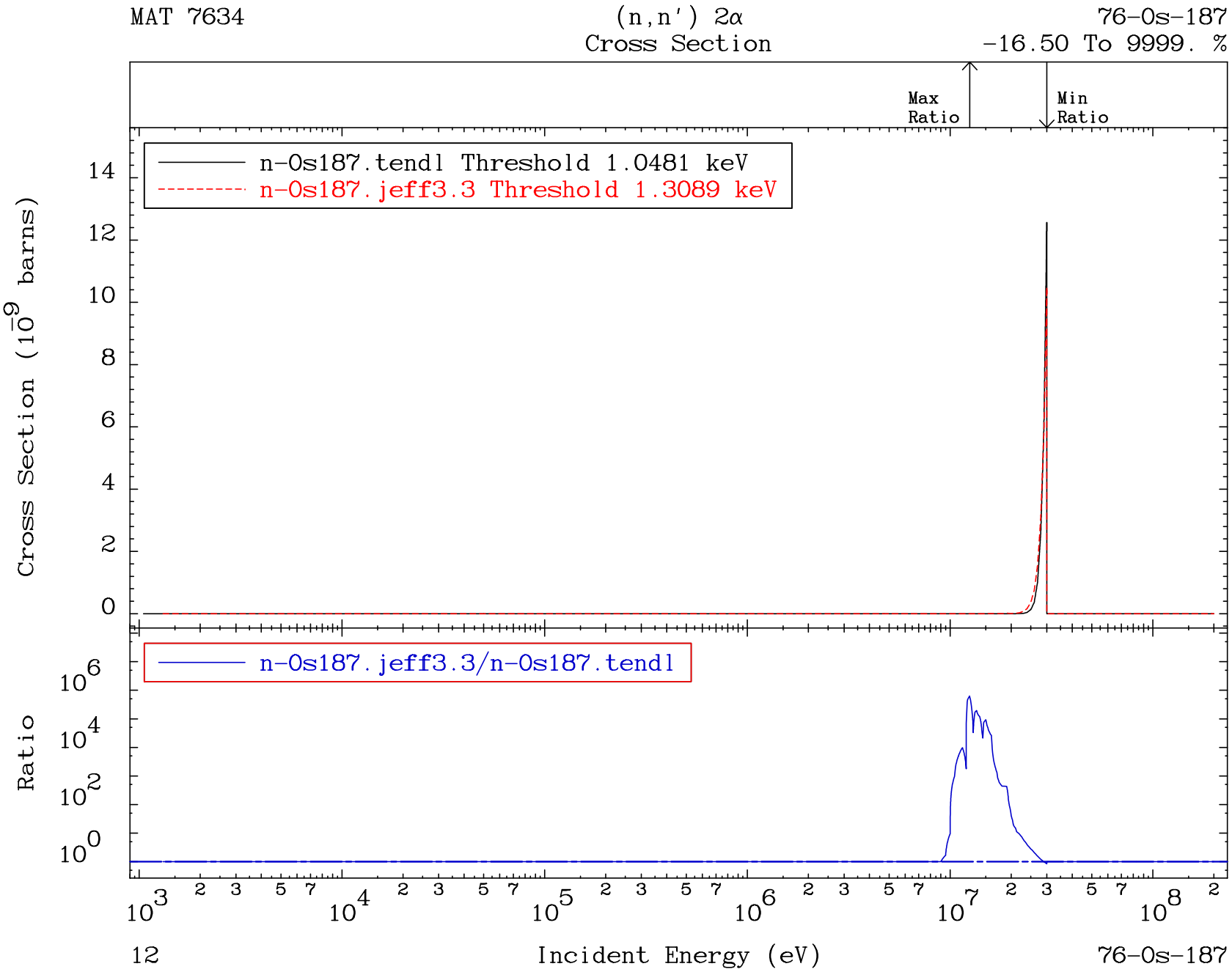

MAT 7634
(n,3n)
Cross Section
76-Os-187
-2.106 To 5.452 %
Max Ratio
Min Ratio
n-Os187.tendl Threshold 14.634 MeV
n-Os187.jeff3.3 Threshold 14.632 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
n-Os187.jeff3.3/n-Os187.tendl
Ratio
1.04
1.00
2
3
4
5
6
7
8
9
2
10^8
7
Incident Energy (eV)
76-Os-187

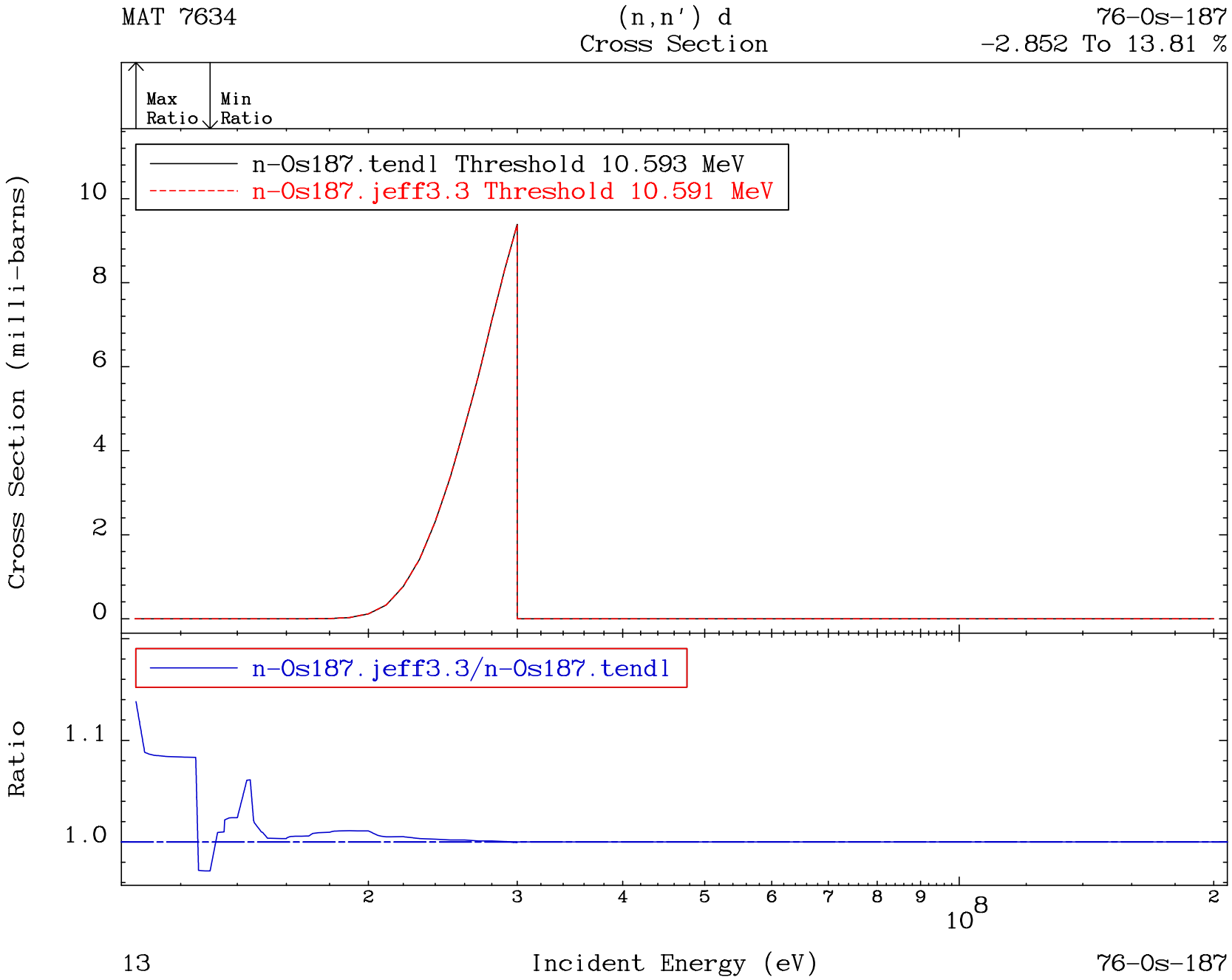

MAT 7634
(n,n') α
Cross Section
76-0s-187
-27.78 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 1.0481 keV
n-0s187.jeff3.3 Threshold 1.3089 keV
Cross Section (milli-barns)
20
15
10
5
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
10^9
10^6
10^3
10^0
10^3 2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
8
Incident Energy (eV)
76-0s-187

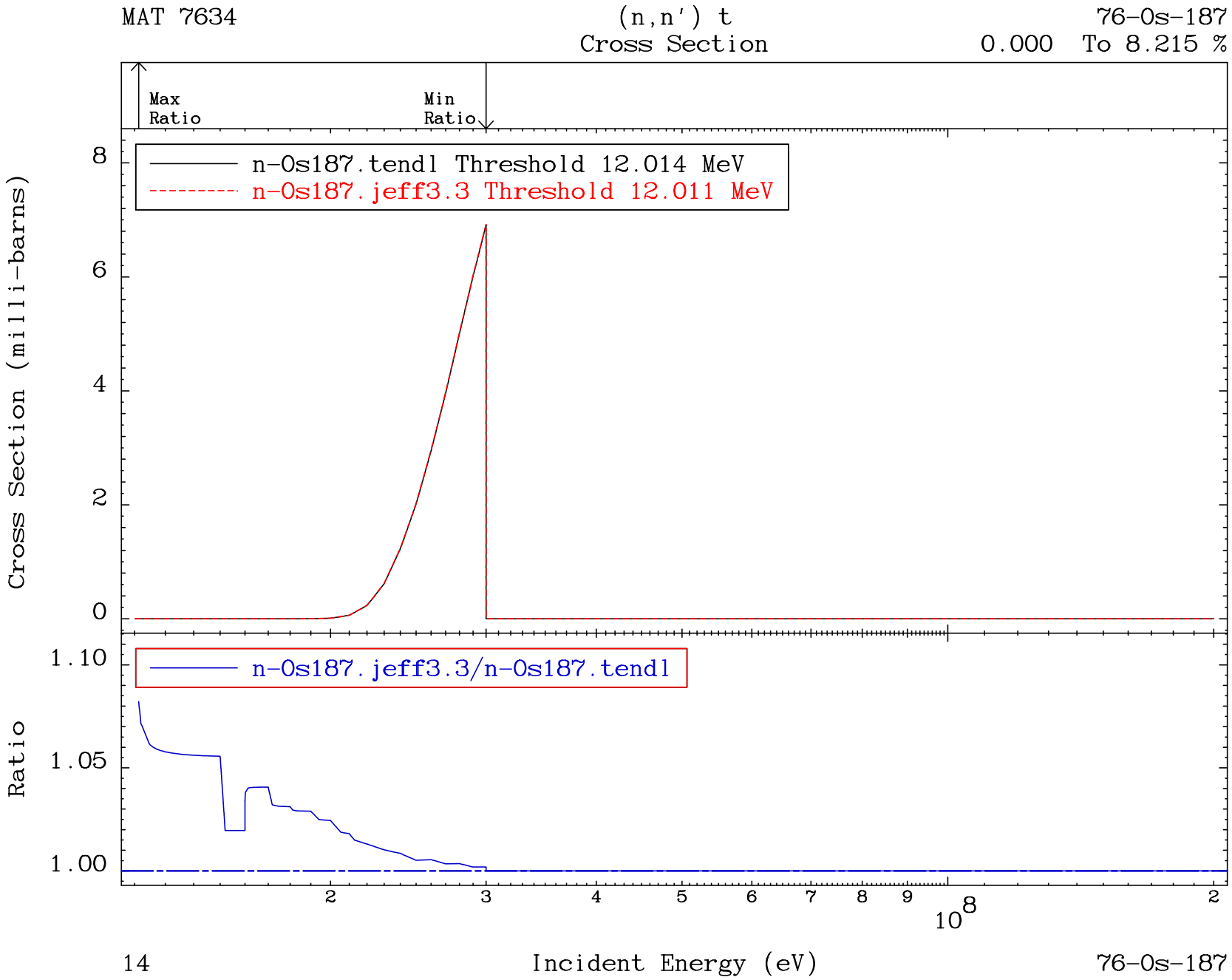

MAT 7634
(n,2n) α
Cross Section
76-0s-187
-71.07 To 9999. %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 3.4878 MeV
n-0s187.jeff3.3 Threshold 3.4883 MeV
Cross Section (milli-barns)
n-0s187.jeff3.3/n-0s187.tendl
Ratio
Incident Energy (eV)
9
76-0s-187

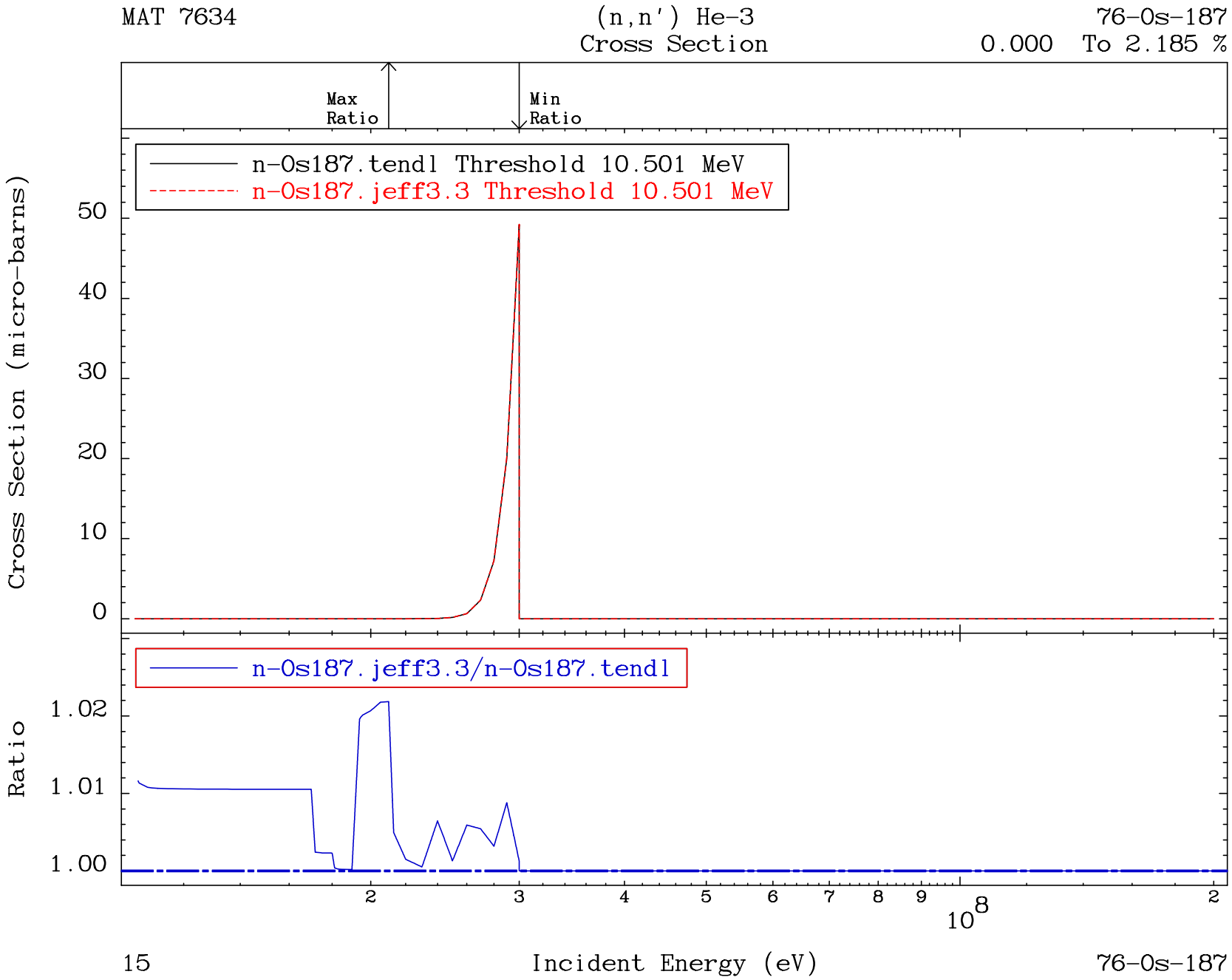

MAT 7634
(n,3n) α
Cross Section
76-Os-187
-15.76 To 9999. %
Max Ratio
Min Ratio
n-Os187.tendl Threshold 11.615 MeV
n-Os187.jeff3.3 Threshold 11.597 MeV
Cross Section (micro-barns)
400
300
200
100
0
n-Os187.jeff3.3/n-Os187.tendl
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
76-Os-187

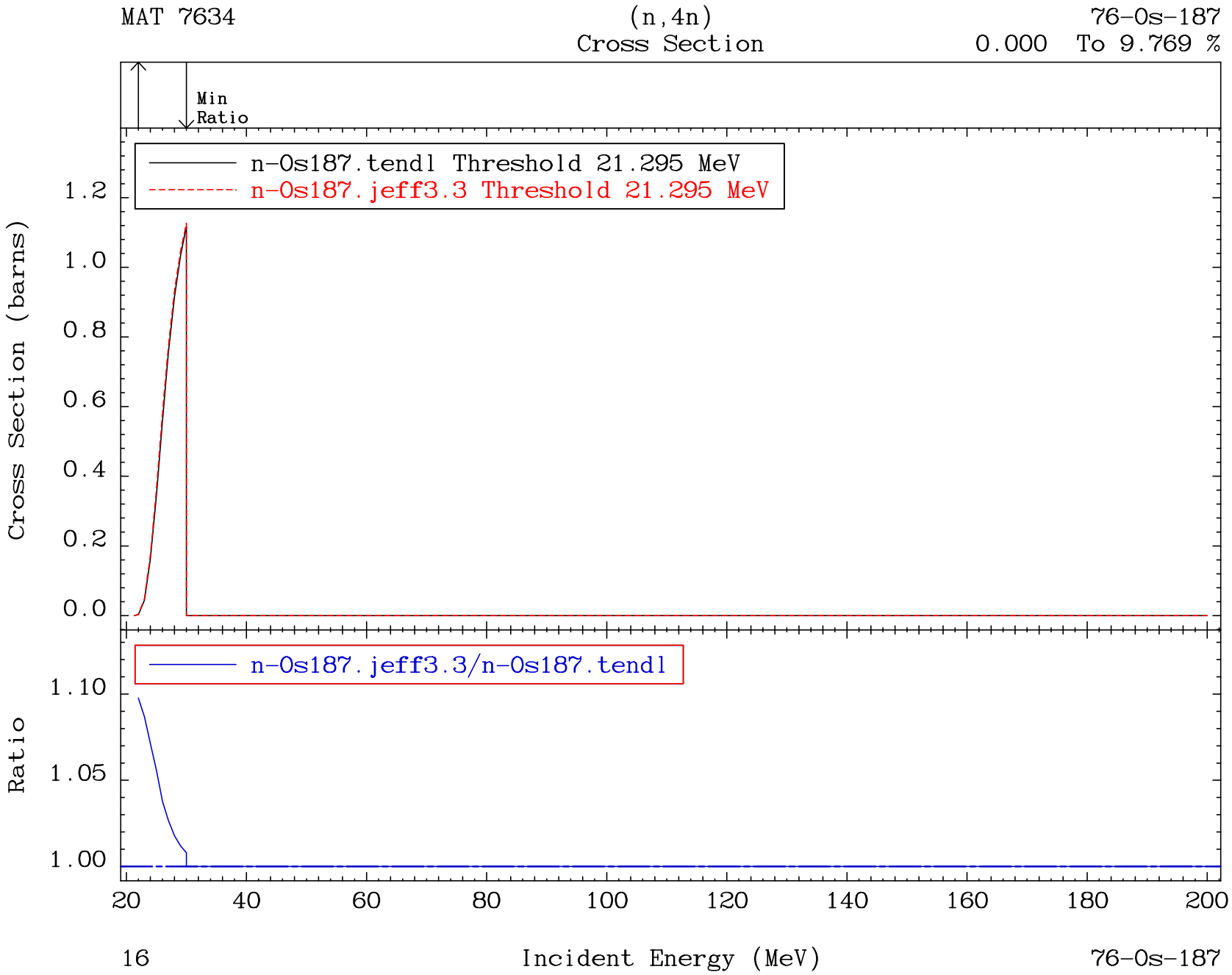

MAT 7634
(n,n') p
Cross Section
76-0s-187
-3.621 To 0.867 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 6.6163 MeV
n-0s187.jeff3.3 Threshold 6.6148 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.02
1.00
0.98
0.96
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
76-0s-187

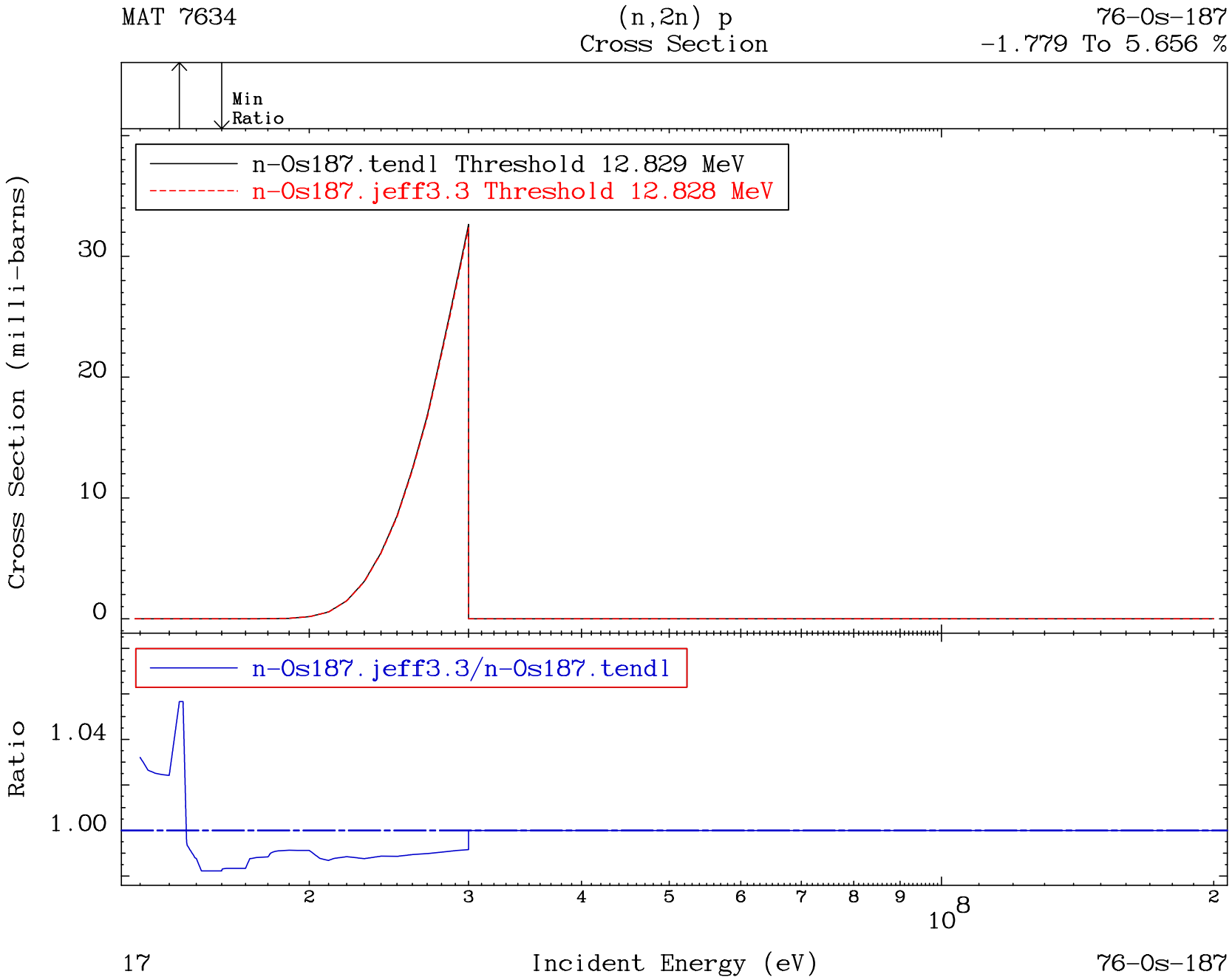

MAT 7634
(n,n') 2α
Cross Section
76-0s-187
-16.50 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 1.0481 keV
n-0s187.jeff3.3 Threshold 1.3089 keV
Cross Section (10^-9 barns)
n-0s187.jeff3.3/n-0s187.tendl
Ratio
Incident Energy (eV)
12
76-0s-187

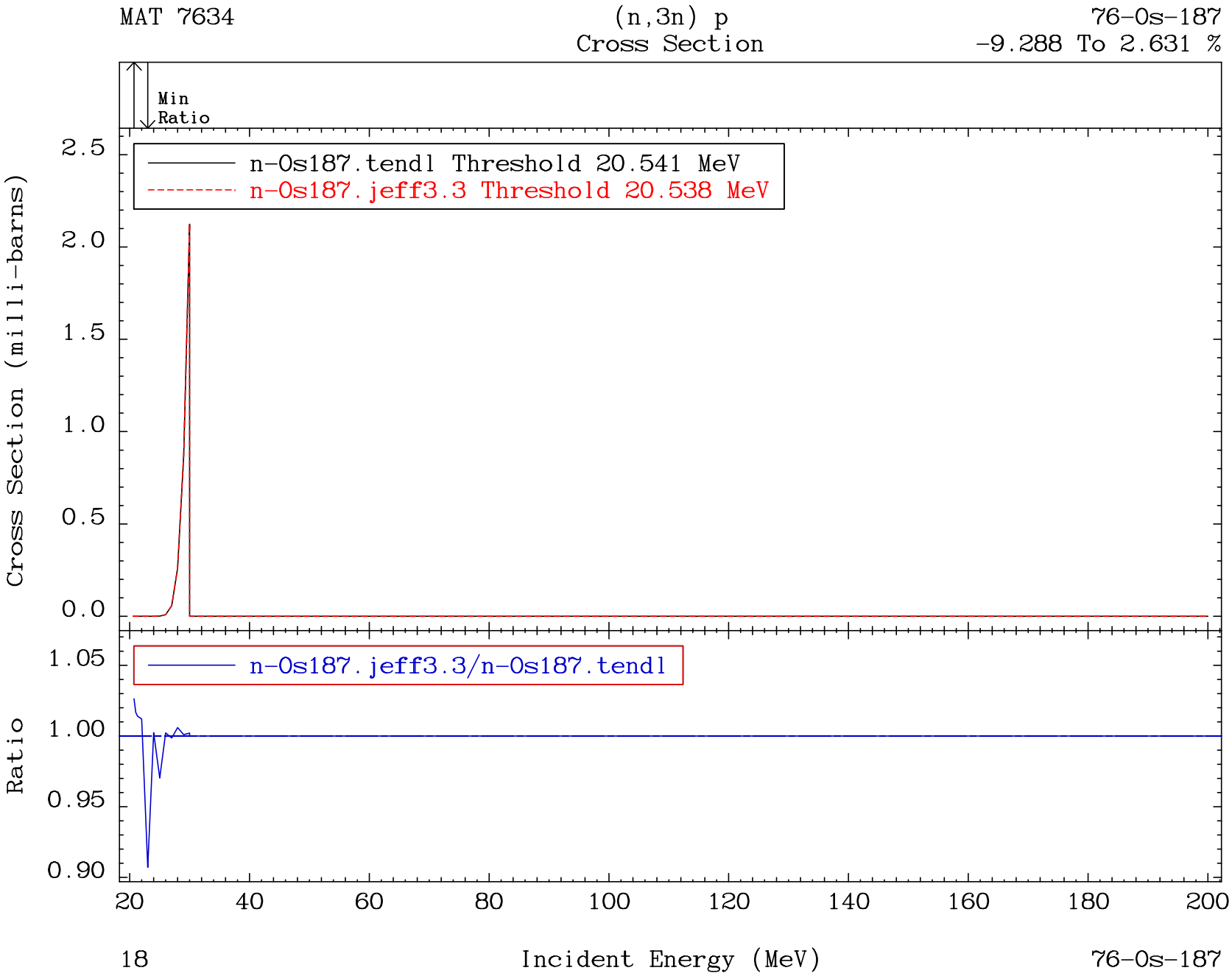

MAT 7634
(n,n') d
Cross Section
76-0s-187
-2.852 To 13.81 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 10.593 MeV
n-0s187.jeff3.3 Threshold 10.591 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
76-0s-187

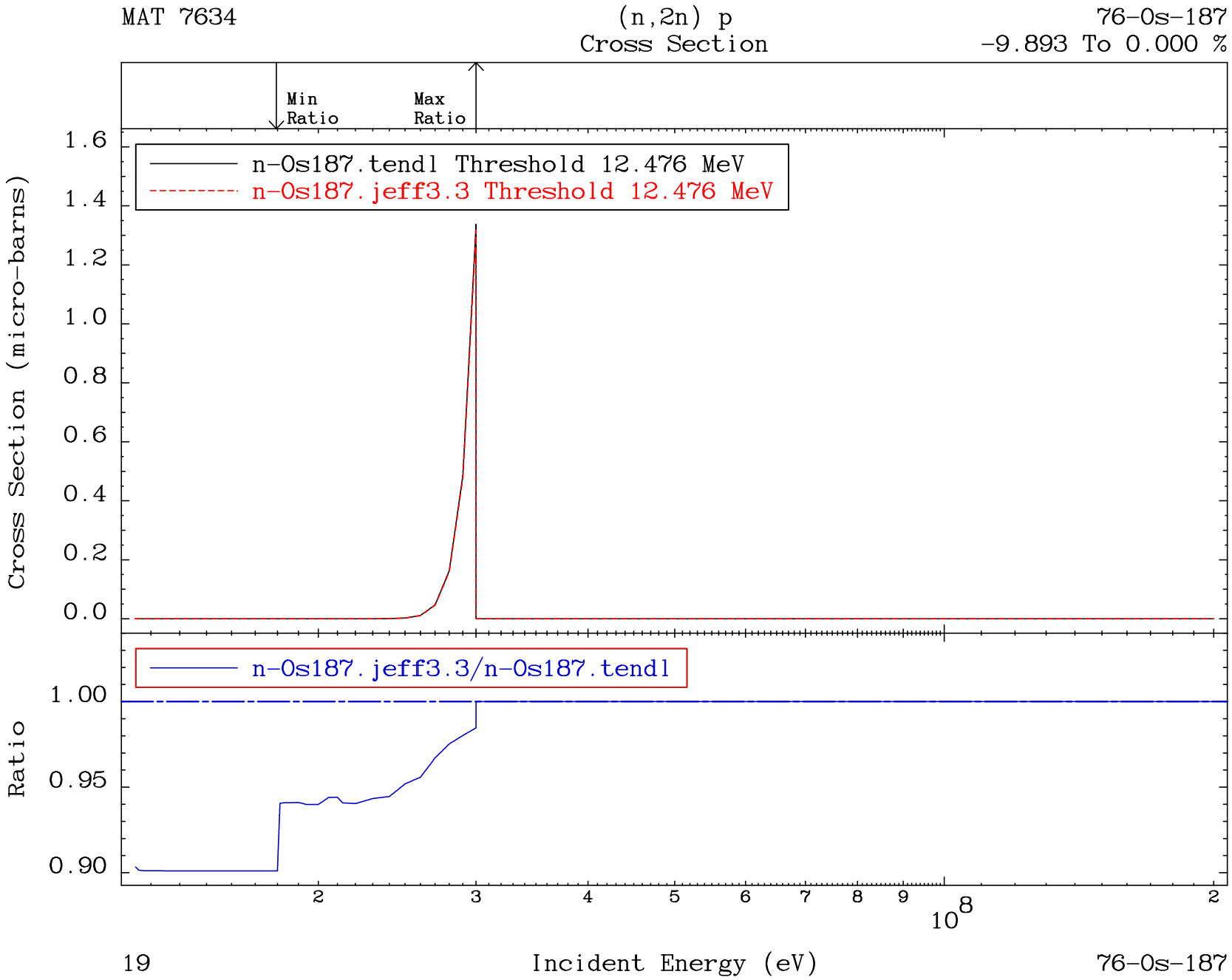

MAT 7634
(n,n') t
Cross Section
76-0s-187
0.000 To 8.215 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 12.014 MeV
n-0s187.jeff3.3 Threshold 12.011 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.00
1.05
1.10
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
76-0s-187

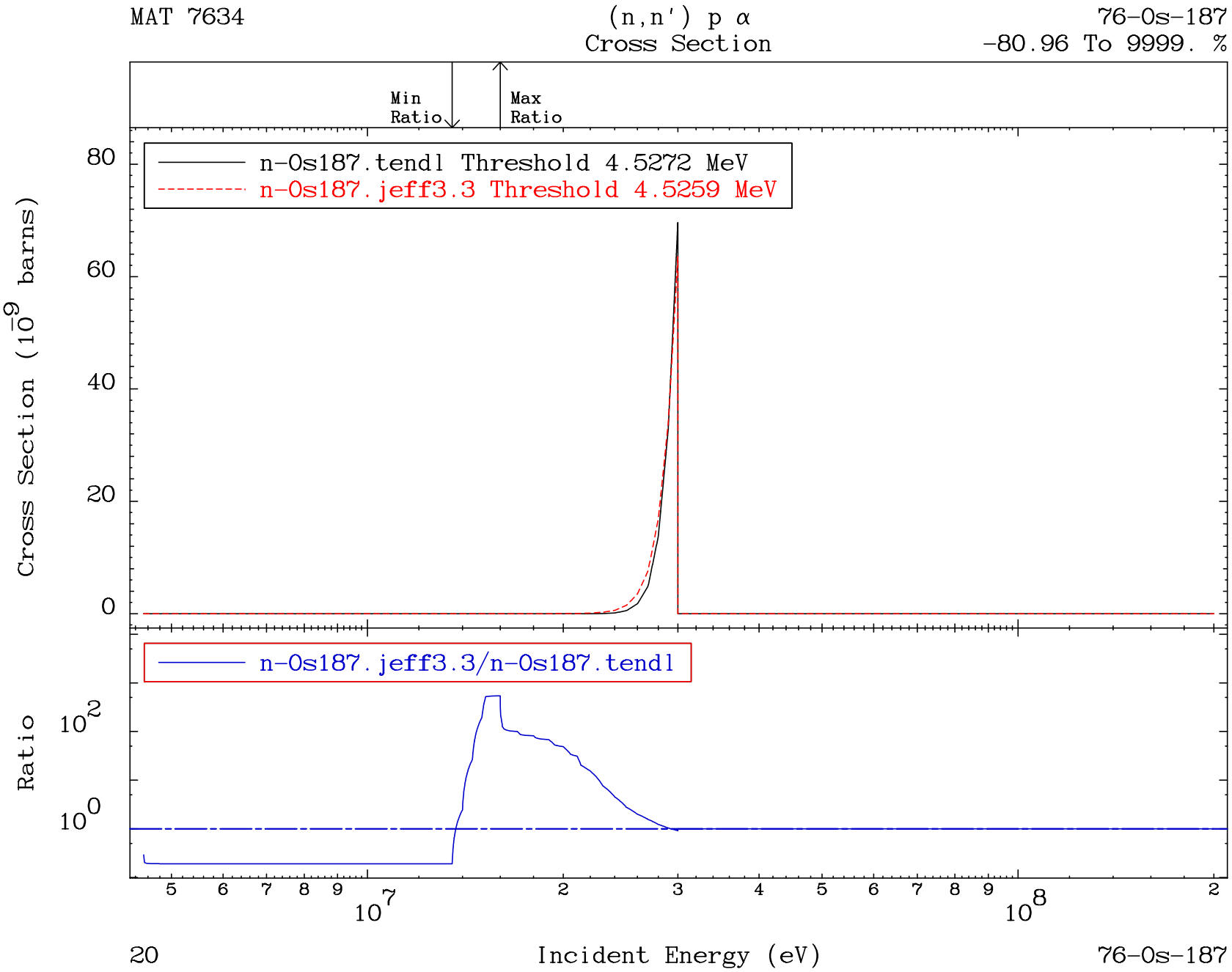

MAT 7634
(n,n') He-3
Cross Section
76-0s-187
0.000 To 2.185 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 10.501 MeV
n-0s187.jeff3.3 Threshold 10.501 MeV
Cross Section (micro-barns)
50
40
30
20
10
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
76-0s-187

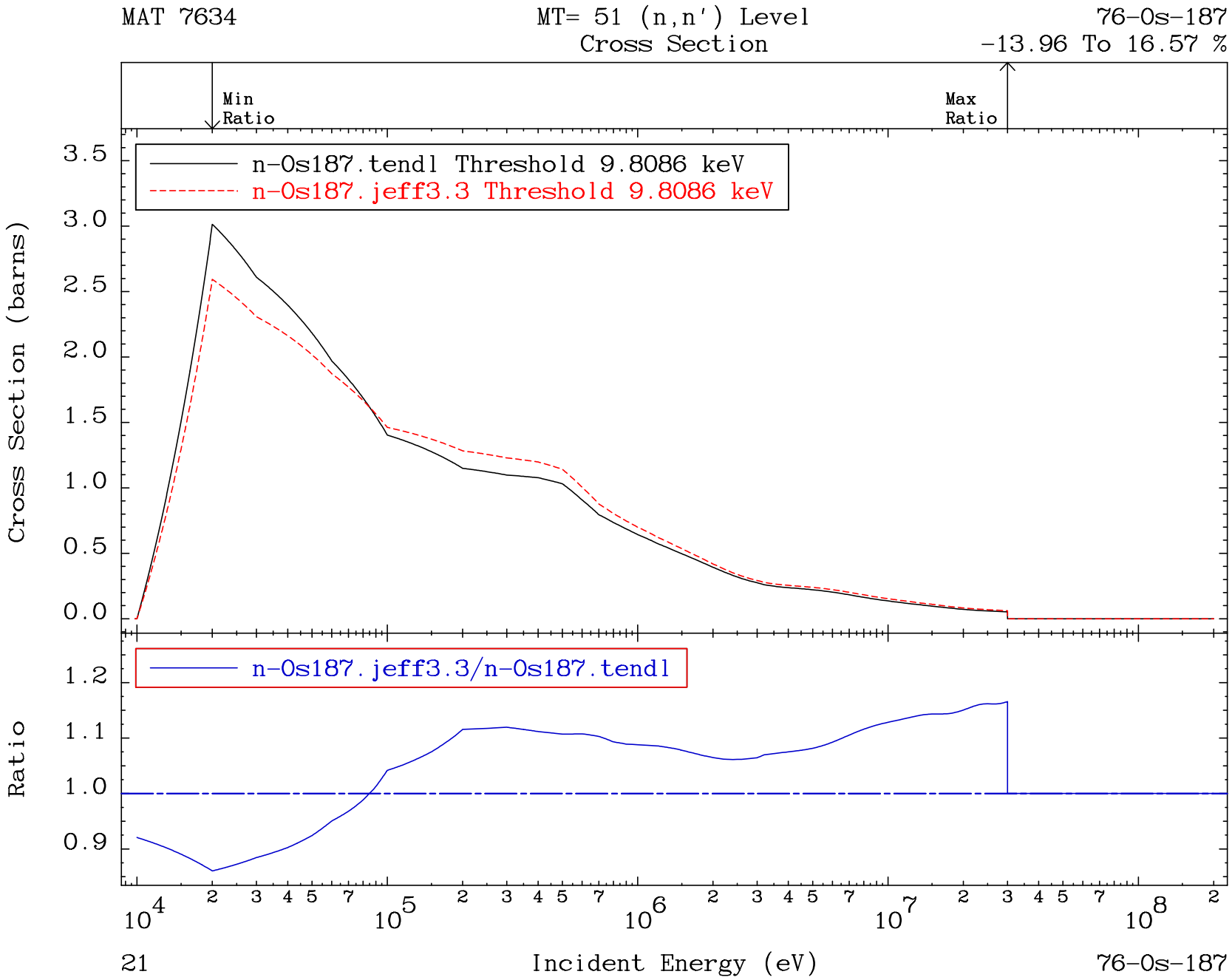

MAT 7634
(n,4n)
Cross Section
76-Os-187
0.000 To 9.769 %
Min
Ratio
n-Os187.tendl Threshold 21.295 MeV
n-Os187.jeff3.3 Threshold 21.295 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Os187.jeff3.3/n-Os187.tendl
Ratio
1.10
1.05
1.00
20
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
76-Os-187

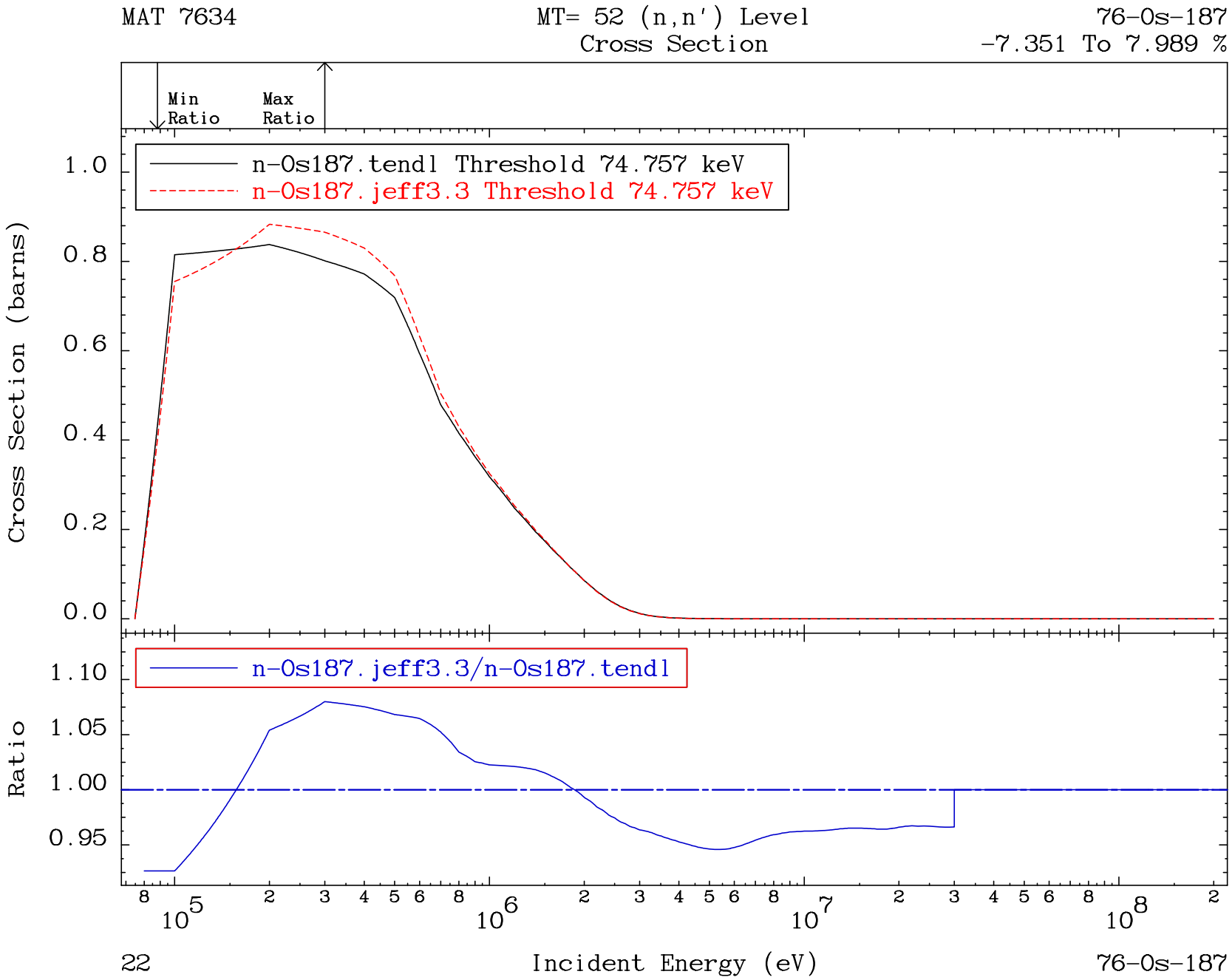

MAT 7634
(n,2n) p
Cross Section
76-Os-187
-1.779 To 5.656 %
Min
Ratio
n-Os187.tendl Threshold 12.829 MeV
n-Os187.jeff3.3 Threshold 12.828 MeV
Cross Section (milli-barns)
30
20
10
0
n-Os187.jeff3.3/n-Os187.tendl
Ratio
1.04
1.00
2
3
4
5
6
7
8
9
10^8
2
17
Incident Energy (eV)
76-Os-187

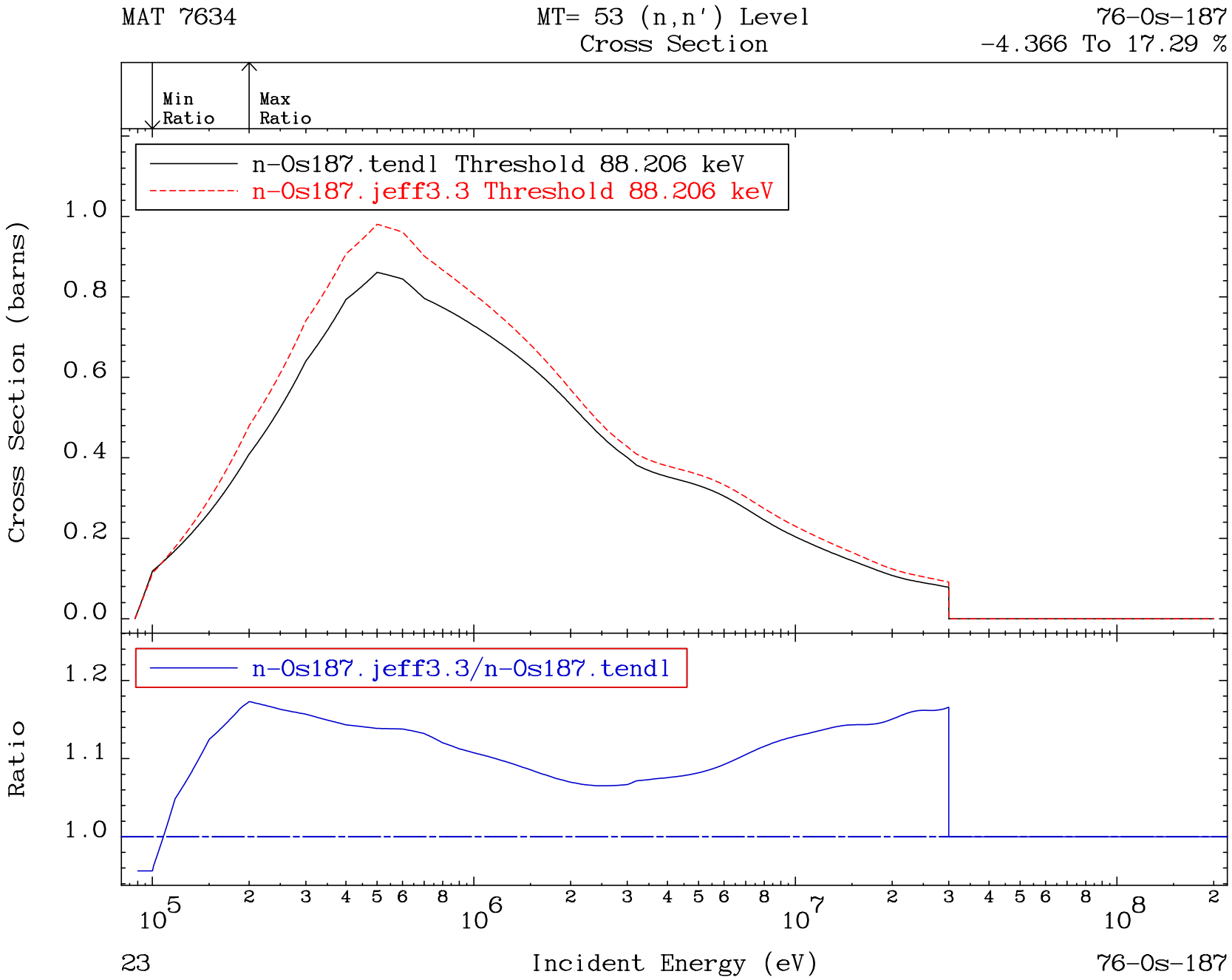

MAT 7634
(n,3n) p
Cross Section
76-0s-187
-9.288 To 2.631 %
Min
Ratio
n-0s187.tendl Threshold 20.541 MeV
n-0s187.jeff3.3 Threshold 20.538 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.05
1.00
0.95
0.90
20
40
60
80
100
120
140
160
180
200
18
Incident Energy (MeV)
76-0s-187

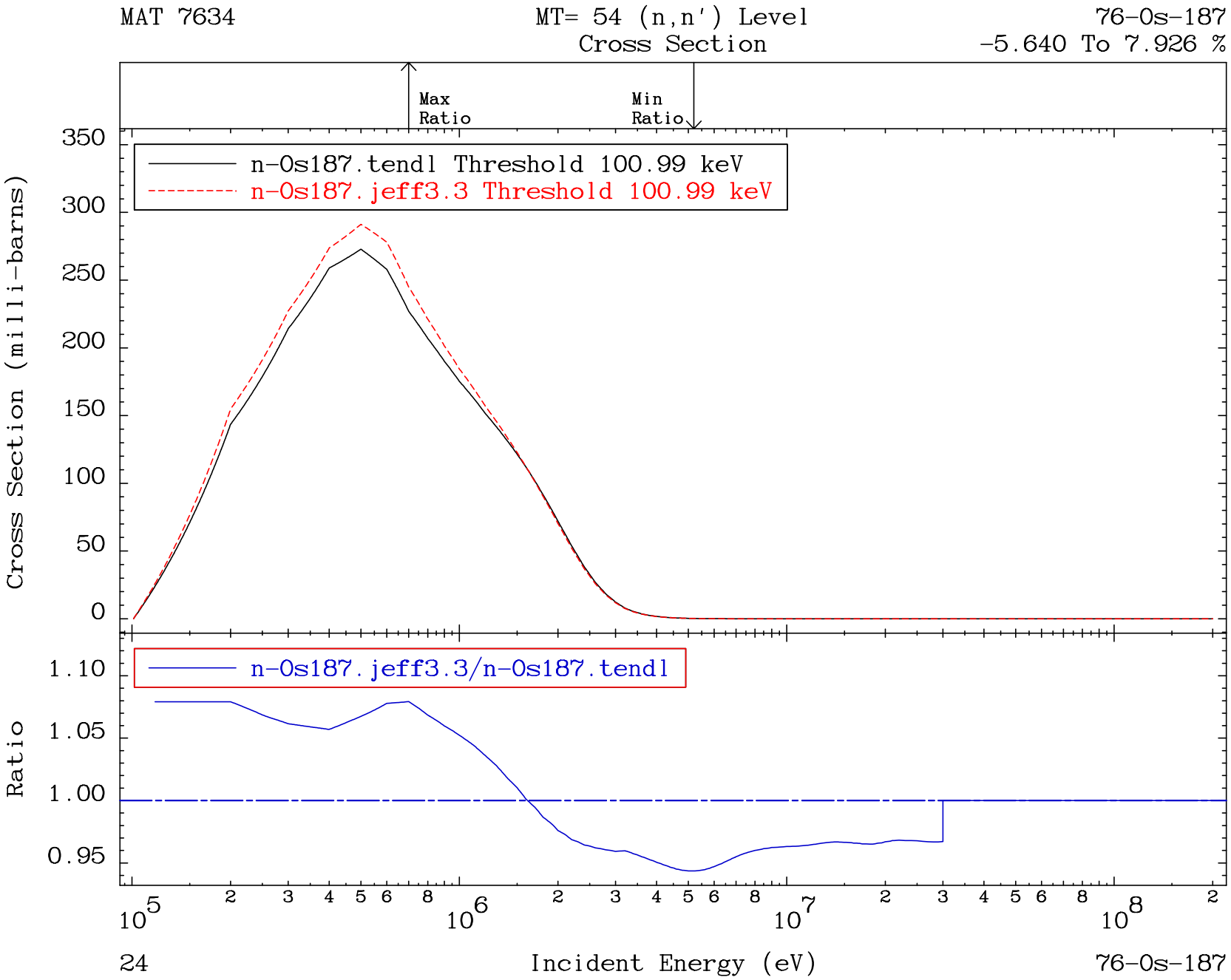

MAT 7634
(n,2n) p
Cross Section
76-0s-187
-9.893 To 0.000 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 12.476 MeV
n-0s187.jeff3.3 Threshold 12.476 MeV
Cross Section (micro-barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.00
0.95
0.90
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
76-0s-187

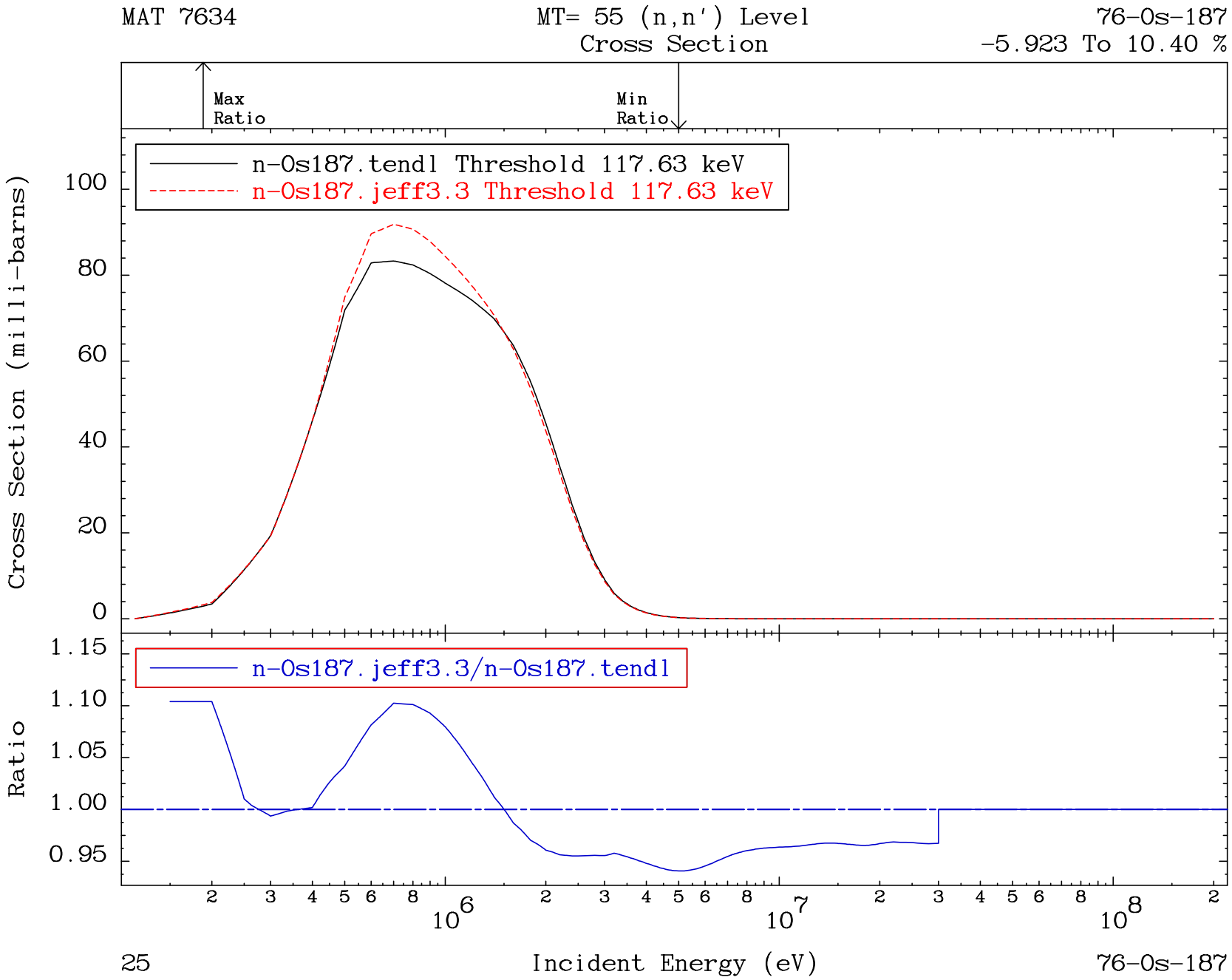

MAT 7634
(n,n') p α
Cross Section
76-0s-187
-80.96 To 9999. %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 4.5272 MeV
n-0s187.jeff3.3 Threshold 4.5259 MeV
Cross Section ($10^{-9}$ barns)
80
60
40
20
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
$10^{2}$
$10^{0}$
5 6 7 8 9 $10^{7}$ 2 3 4 5 6 7 8 9 $10^{8}$ 2
20
Incident Energy (eV)
76-0s-187

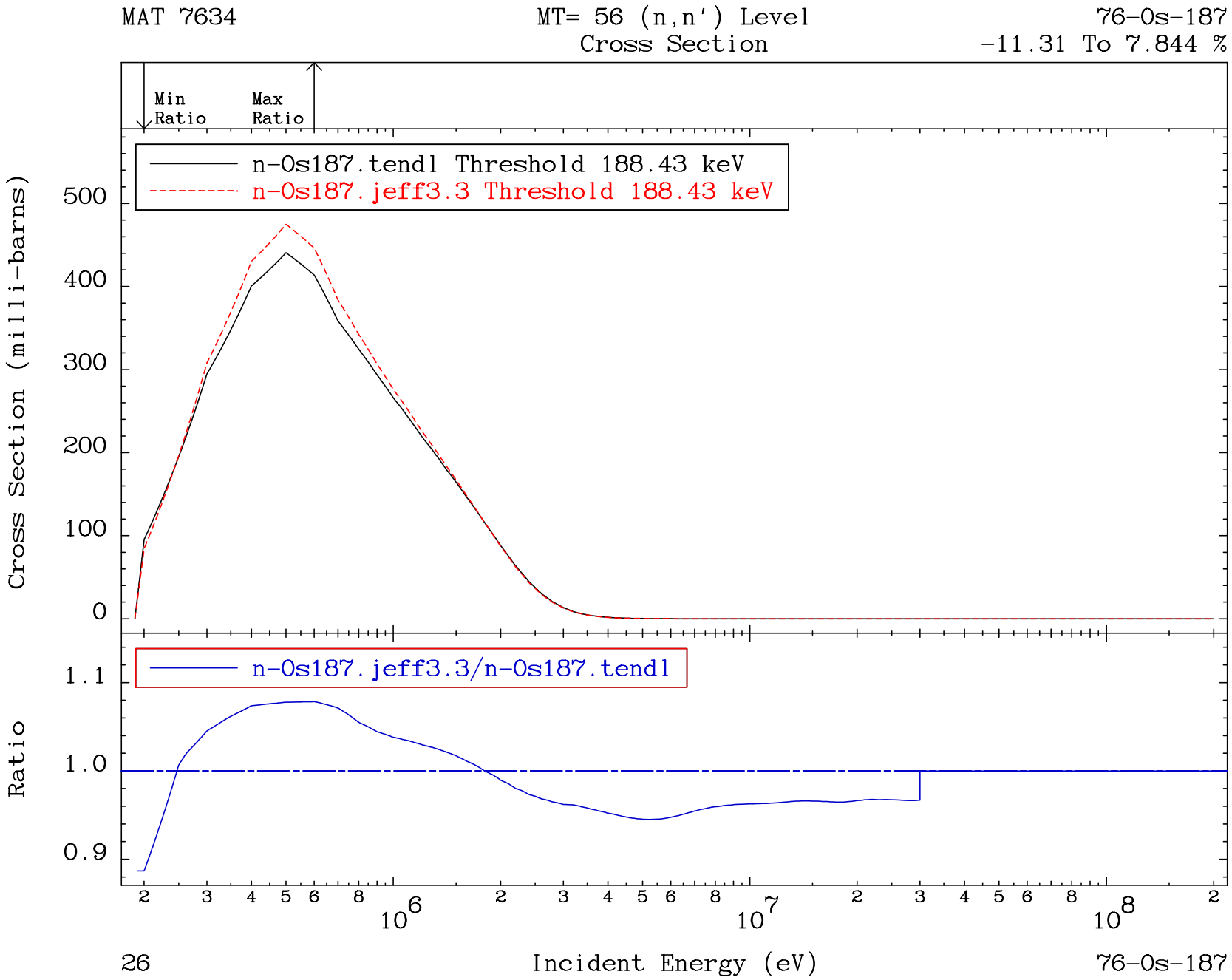

MAT 7634
MT= 51 (n,n') Level
Cross Section
76-0s-187
-13.96 To 16.57 %
Min
Ratio
Max
Ratio
n-0s187.tendl Threshold 9.8086 keV
n-0s187.jeff3.3 Threshold 9.8086 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.2
1.1
1.0
0.9
10^4
10^5
10^6
10^7
10^8
21
Incident Energy (eV)
76-0s-187

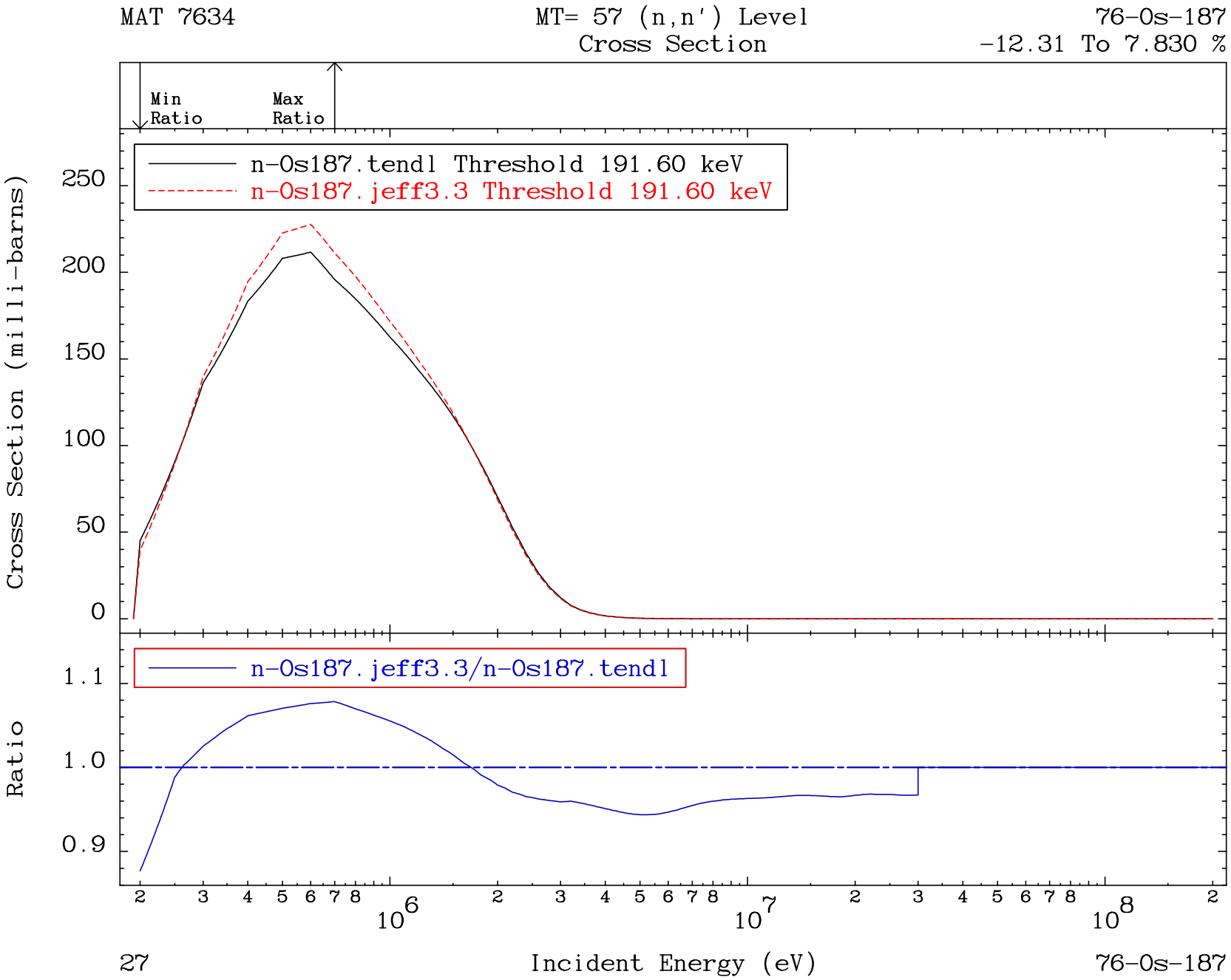

MAT 7634
MT= 52 (n,n') Level
Cross Section
76-0s-187
-7.351 To 7.989 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 74.757 keV
n-0s187.jeff3.3 Threshold 74.757 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.10
1.05
1.00
0.95
8 2 3 4 5 6 8 2 3 4 5 6 8 2 3 4 5 6 8 2
10^5
10^6
10^7
10^8
22
Incident Energy (eV)
76-0s-187

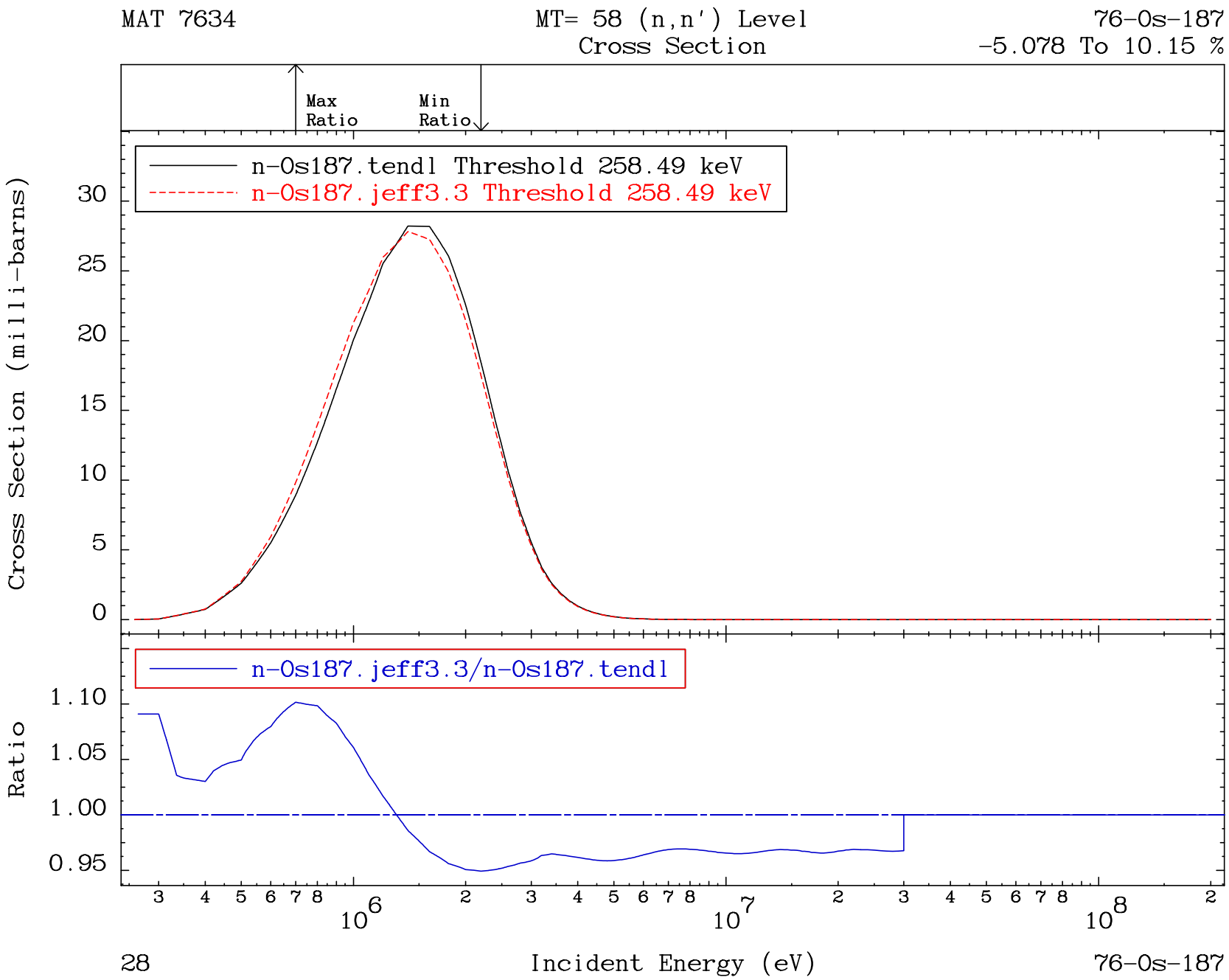

MAT 7634
MT= 53 (n,n') Level
Cross Section
76-0s-187
-4.366 To 17.29 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 88.206 keV
n-0s187.jeff3.3 Threshold 88.206 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.2
1.1
1.0
10^5
2 3 4 5 6 8
10^6
2 3 4 5 6 8
10^7
2 3 4 5 6 8
10^8
2
23
Incident Energy (eV)
76-0s-187

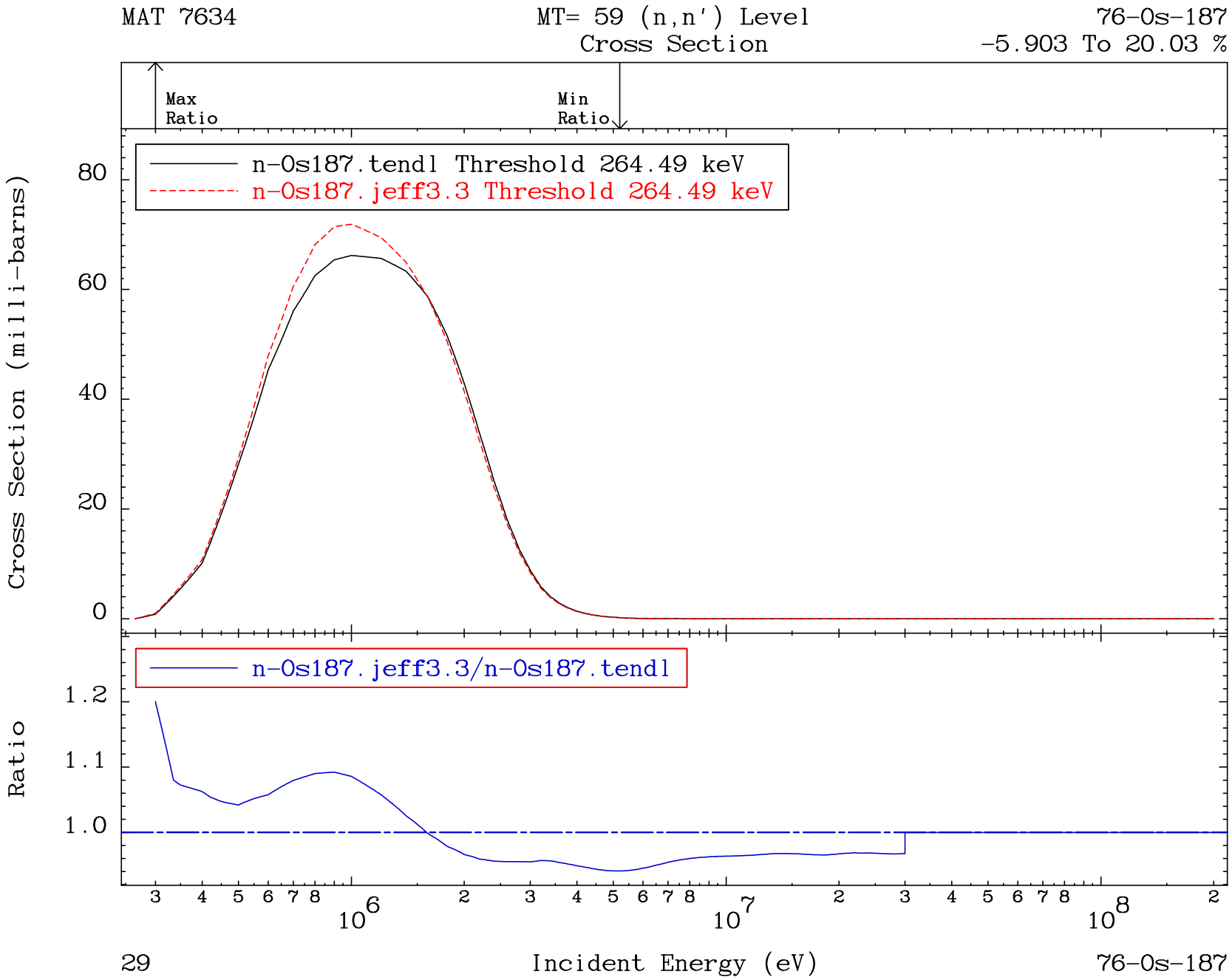

MAT 7634
MT= 54 (n,n') Level
Cross Section
76-0s-187
-5.640 To 7.926 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 100.99 keV
n-0s187.jeff3.3 Threshold 100.99 keV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.10
1.05
1.00
0.95
10^5
10^6
10^7
10^8
24
Incident Energy (eV)
76-0s-187

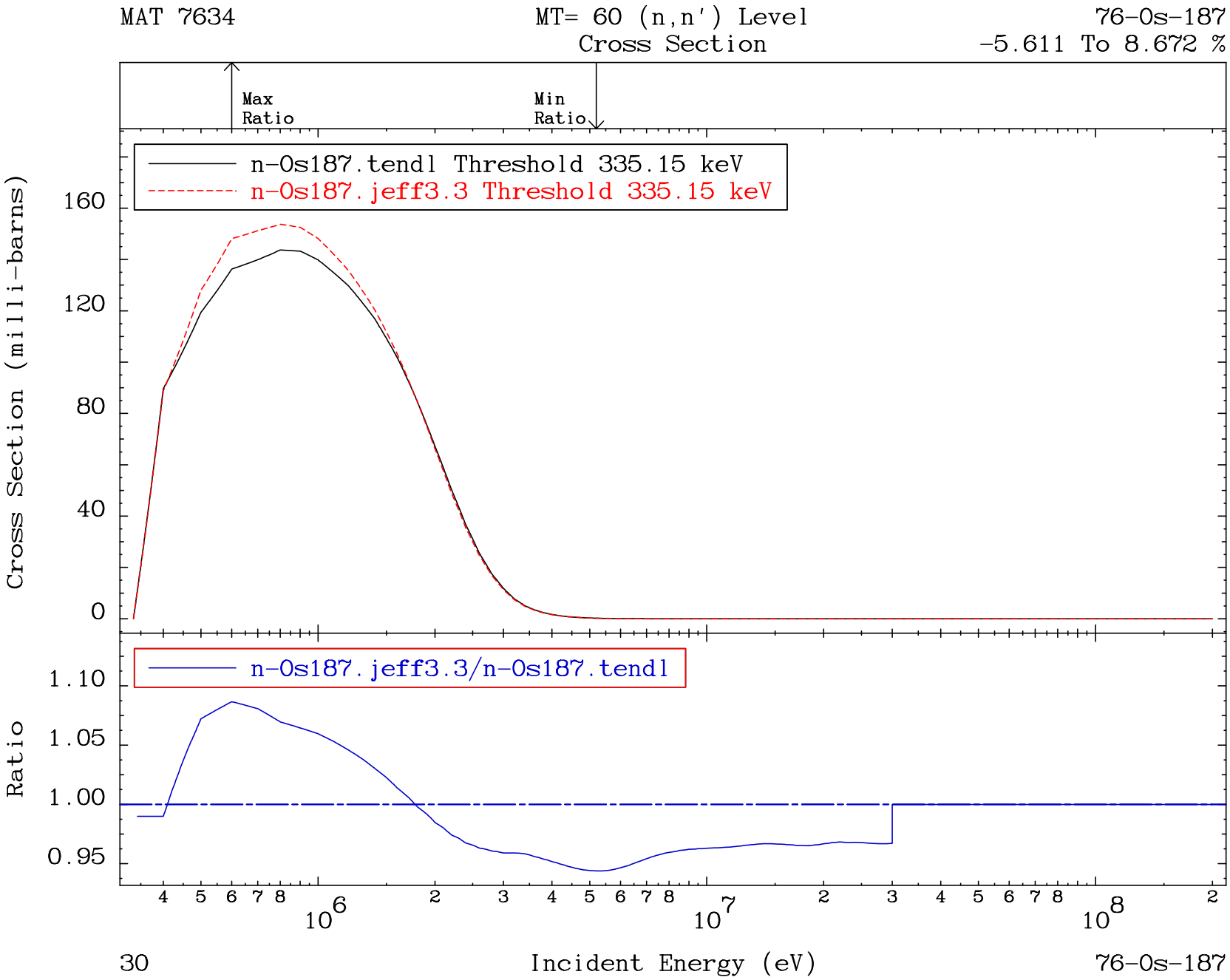

MAT 7634
MT= 55 (n,n') Level
Cross Section
76-0s-187
-5.923 To 10.40 %
Max
Ratio
Min
Ratio
n-0s187.tendl Threshold 117.63 keV
n-0s187.jeff3.3 Threshold 117.63 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.15
1.10
1.05
1.00
0.95
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
25
Incident Energy (eV)
76-0s-187

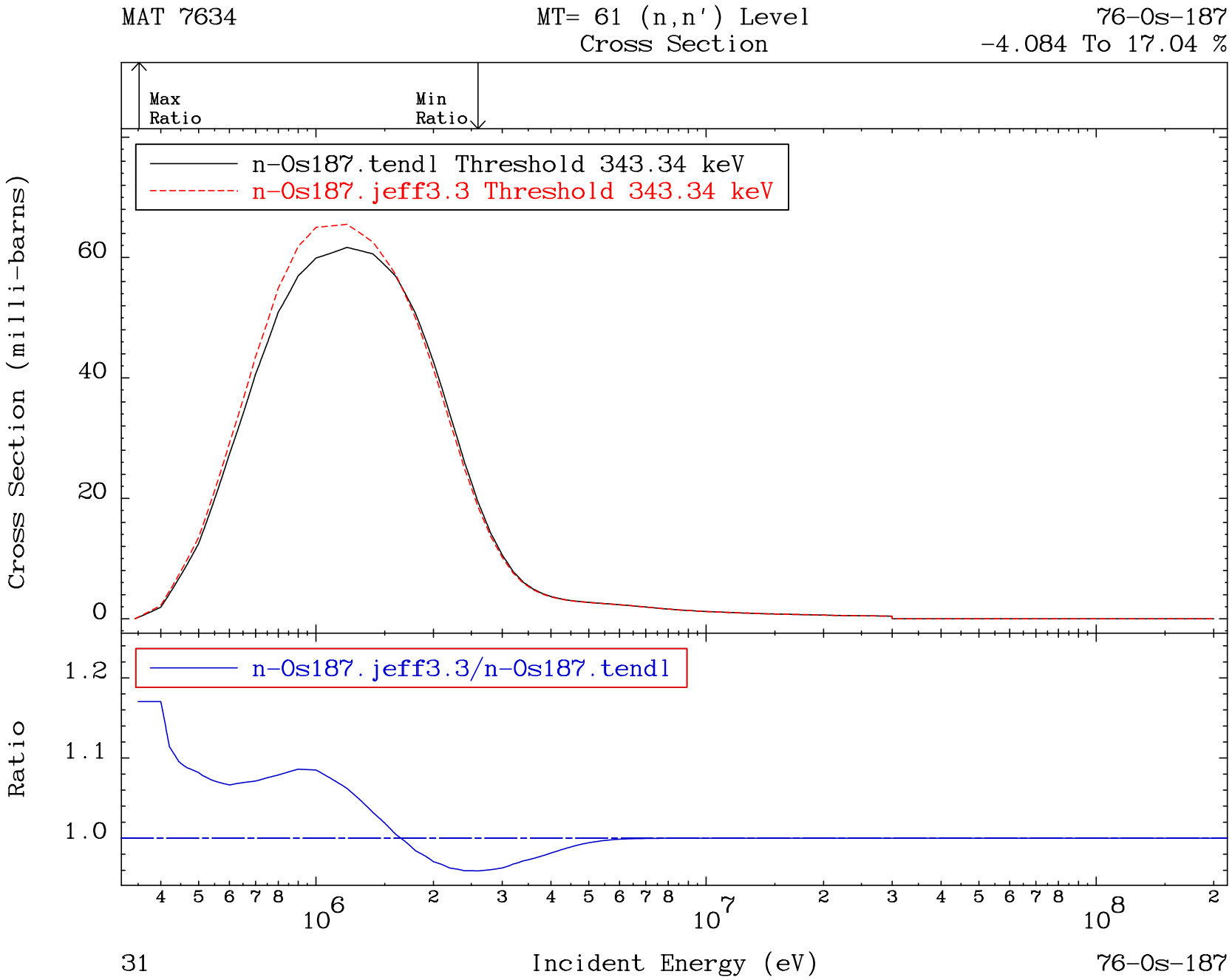

MAT 7634
MT= 56 (n,n') Level
Cross Section
76-0s-187
-11.31 To 7.844 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 188.43 keV
n-0s187.jeff3.3 Threshold 188.43 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.1
1.0
0.9
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
26
Incident Energy (eV)
76-0s-187

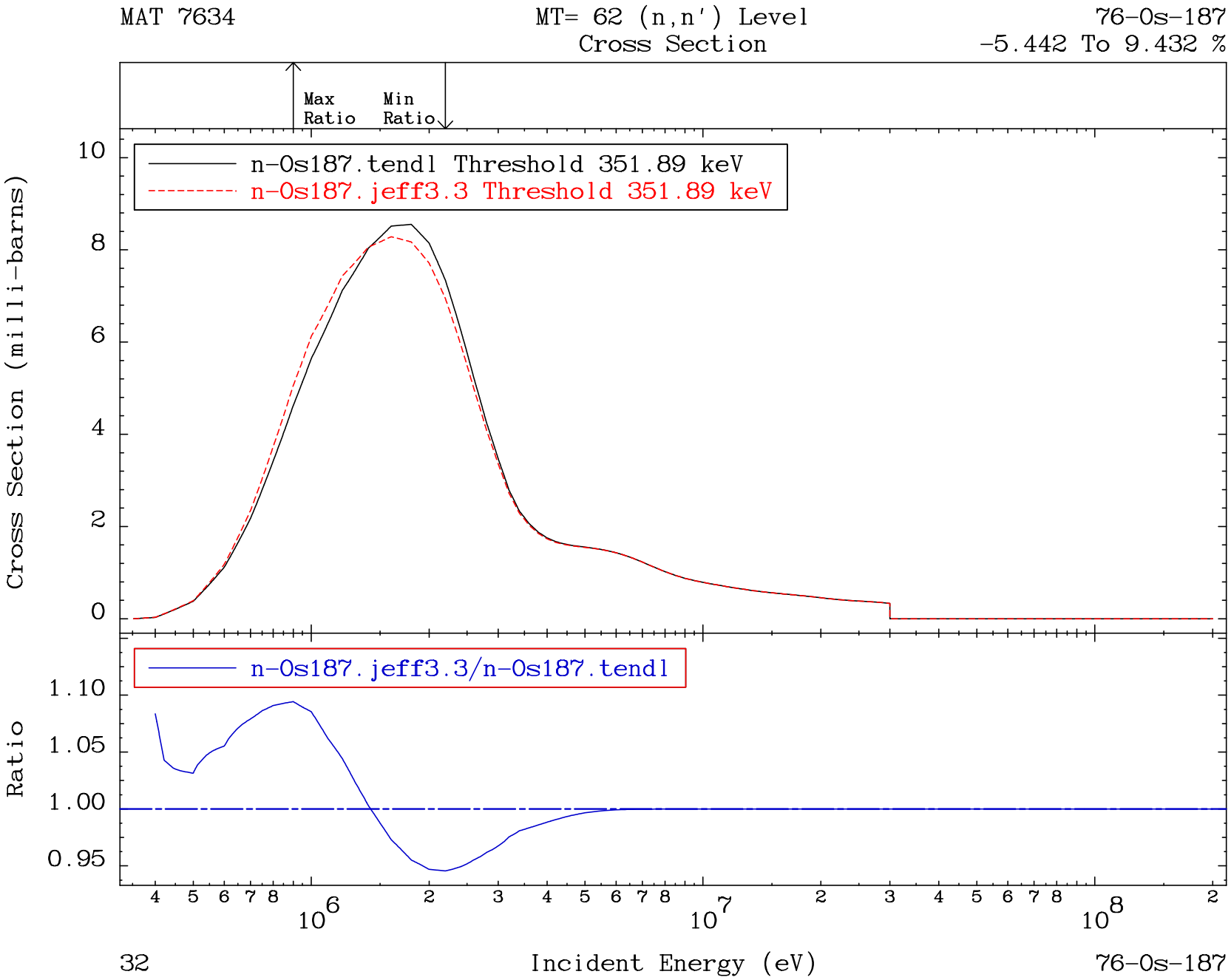

MAT 7634
MT= 57 (n,n') Level
Cross Section
76-0s-187
-12.31 To 7.830 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 191.60 keV
n-0s187.jeff3.3 Threshold 191.60 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.1
1.0
0.9
2 3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
76-0s-187

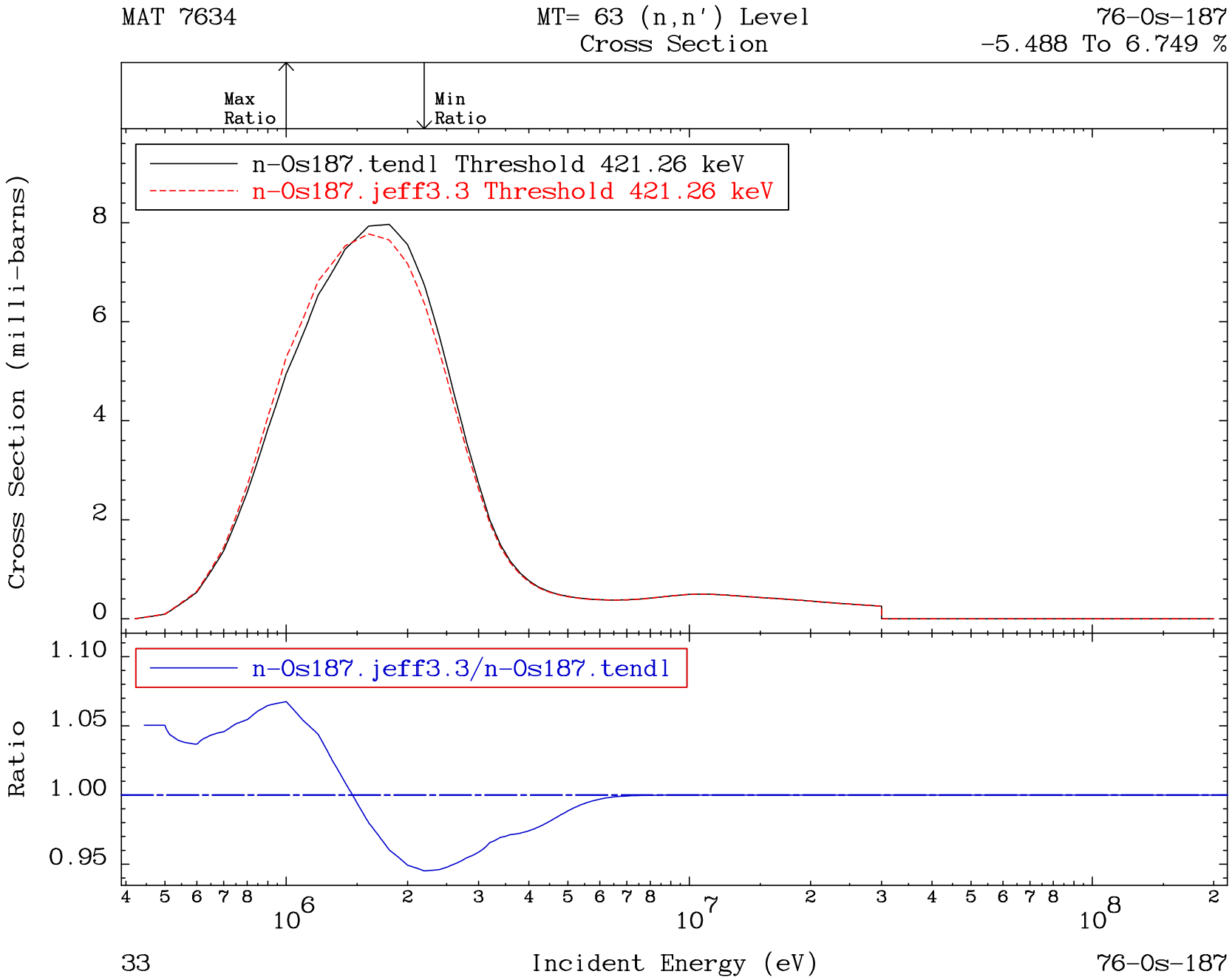

MAT 7634
MT= 58 (n,n') Level
Cross Section
76-0s-187
-5.078 To 10.15 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 258.49 keV
n-0s187.jeff3.3 Threshold 258.49 keV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.10
1.05
1.00
0.95
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
76-0s-187

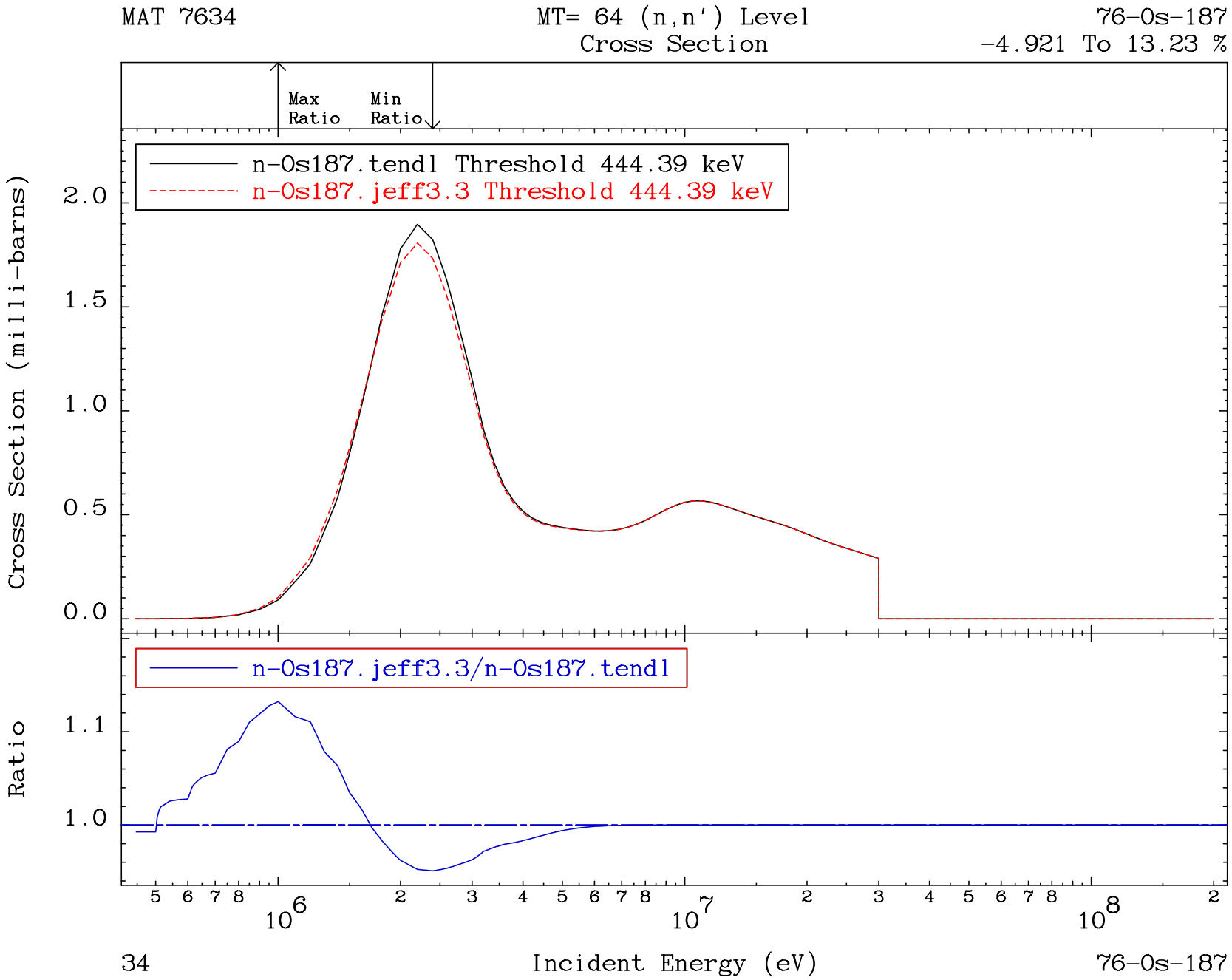

MAT 7634
MT= 59 (n,n') Level
Cross Section
76-0s-187
-5.903 To 20.03 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 264.49 keV
n-0s187.jeff3.3 Threshold 264.49 keV
Cross Section (milli-barns)
80
60
40
20
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.2
1.1
1.0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
29
Incident Energy (eV)
76-0s-187

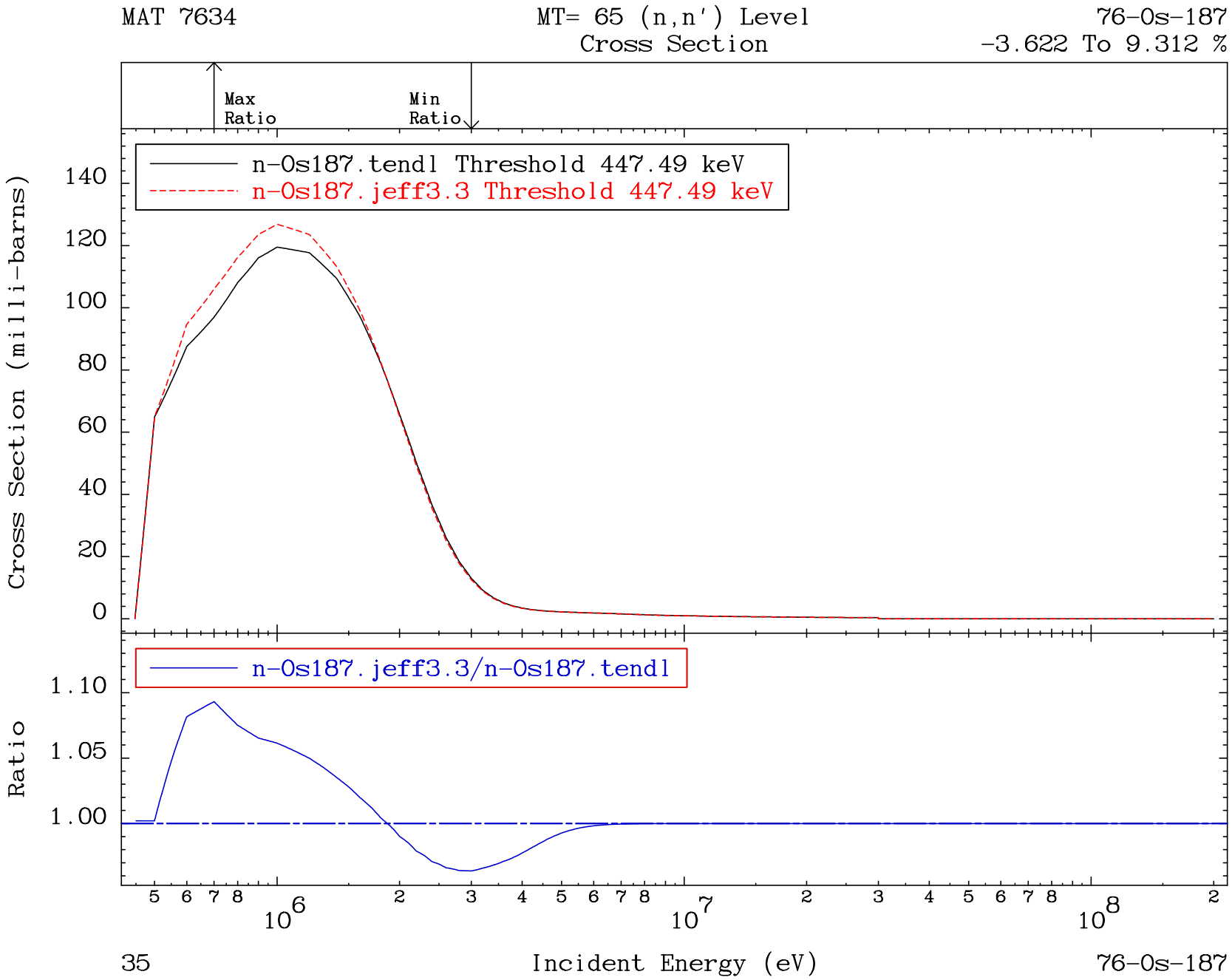

MAT 7634
MT= 60 (n,n') Level
Cross Section
76-0s-187
-5.611 To 8.672 %
Max
Ratio
Min
Ratio
n-0s187.tendl Threshold 335.15 keV
n-0s187.jeff3.3 Threshold 335.15 keV
Cross Section (milli-barns)
160
120
80
40
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.10
1.05
1.00
0.95
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
30
Incident Energy (eV)
76-0s-187

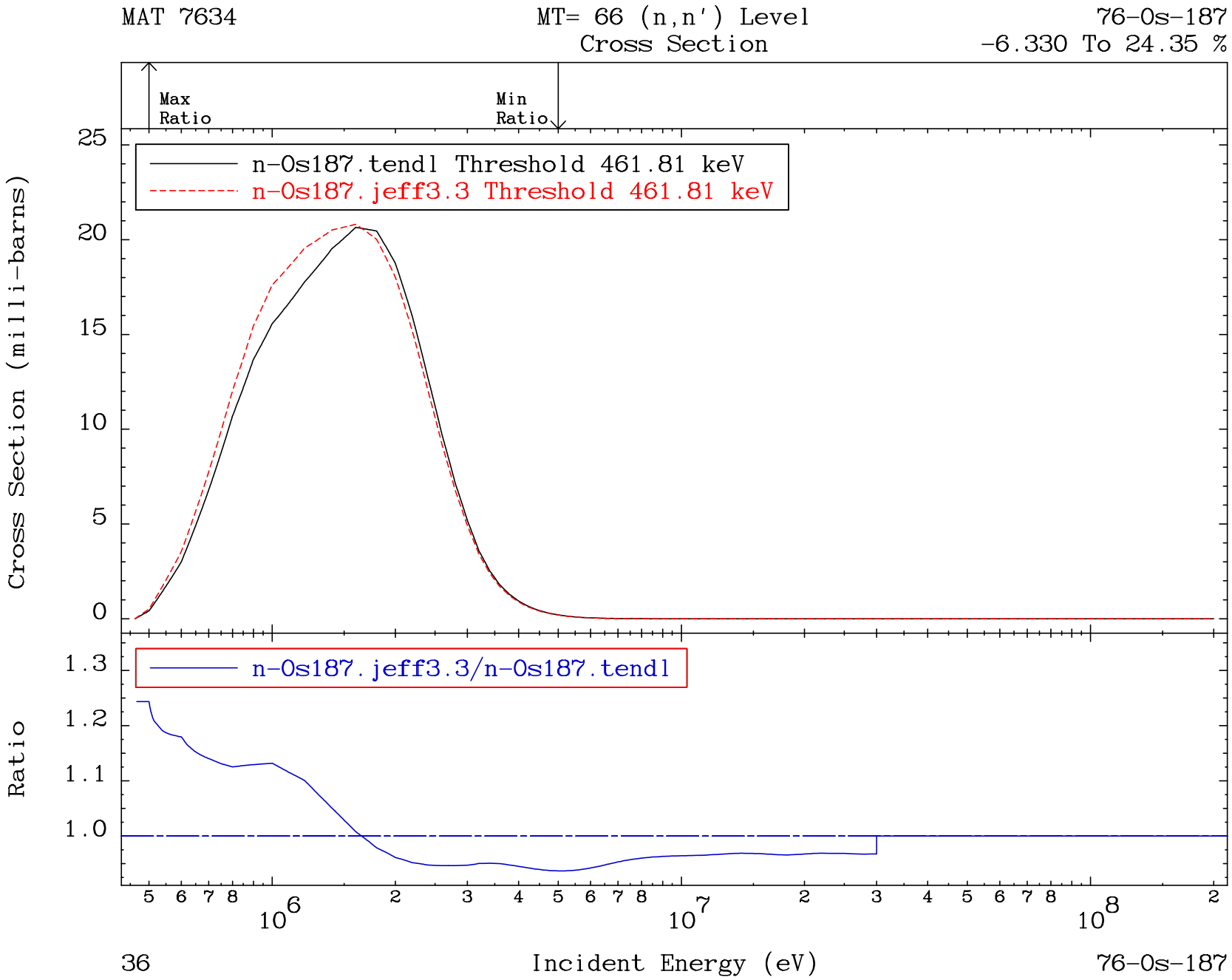

MAT 7634
MT= 61 (n,n') Level
Cross Section
76-0s-187
-4.084 To 17.04 %
Max
Ratio
Min
Ratio
n-0s187.tendl Threshold 343.34 keV
n-0s187.jeff3.3 Threshold 343.34 keV
Cross Section (milli-barns)
60
40
20
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.2
1.1
1.0
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
31
Incident Energy (eV)
76-0s-187

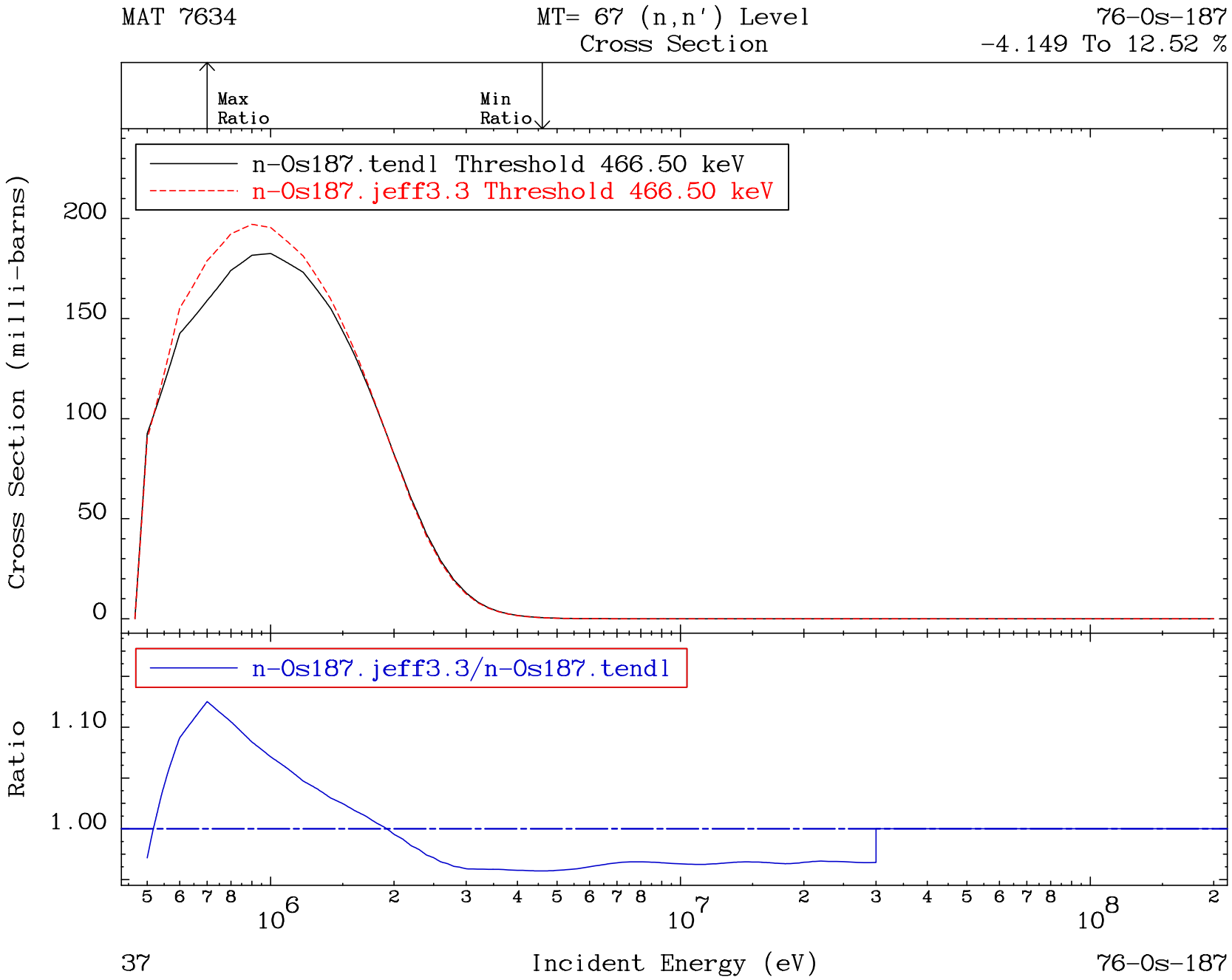

MAT 7634
MT= 62 (n,n') Level
Cross Section
76-0s-187
-5.442 To 9.432 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 351.89 keV
n-0s187.jeff3.3 Threshold 351.89 keV
Cross Section (milli-barns)
10
8
6
4
2
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.10
1.05
1.00
0.95
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
32
Incident Energy (eV)
76-0s-187

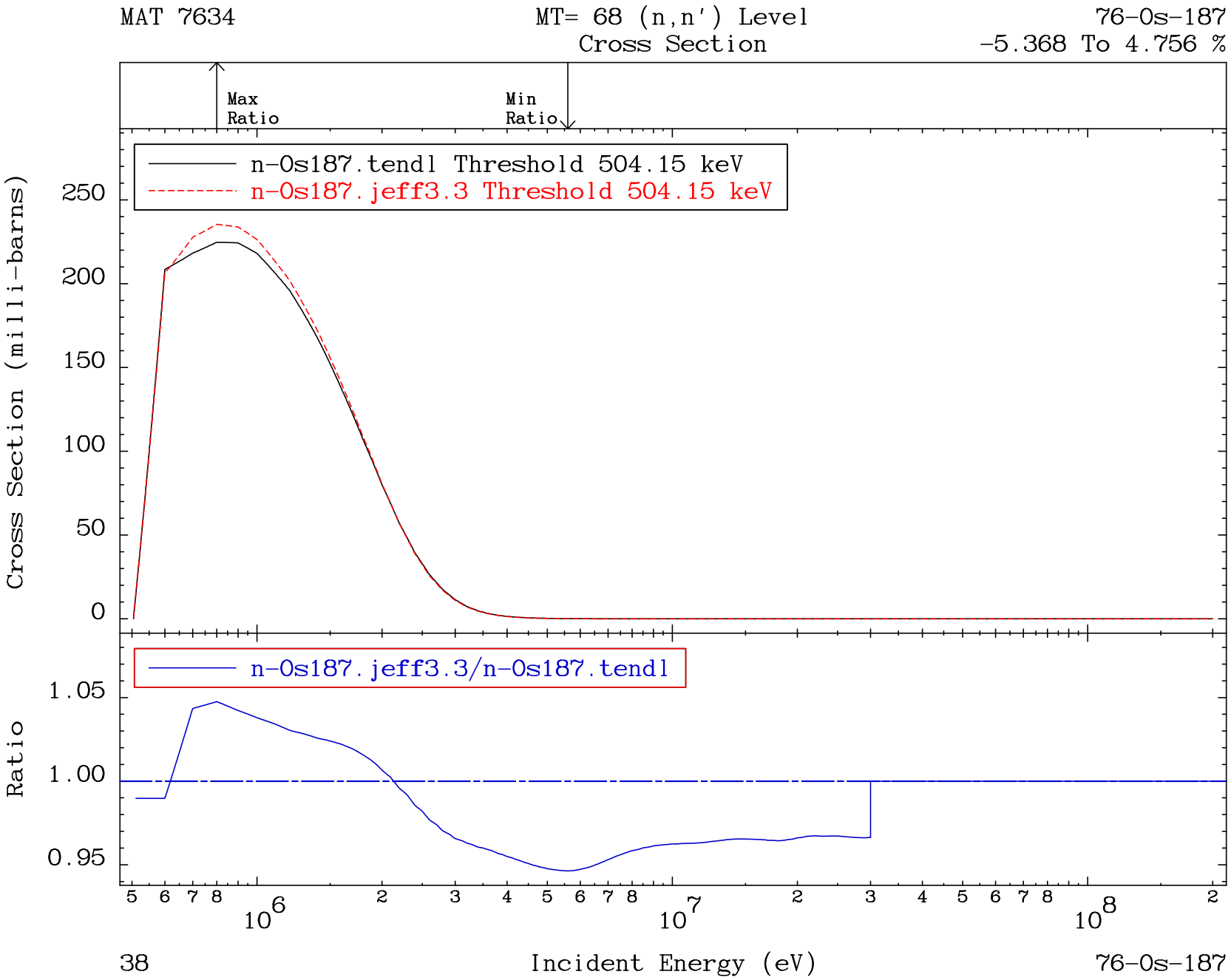

MAT 7634
MT= 63 (n,n') Level
Cross Section
76-0s-187
-5.488 To 6.749 %
Max
Ratio
Min
Ratio
n-0s187.tendl Threshold 421.26 keV
n-0s187.jeff3.3 Threshold 421.26 keV
Cross Section (milli-barns)
0
2
4
6
8
n-0s187.jeff3.3/n-0s187.tendl
Ratio
0.95
1.00
1.05
1.10
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
33
Incident Energy (eV)
76-0s-187

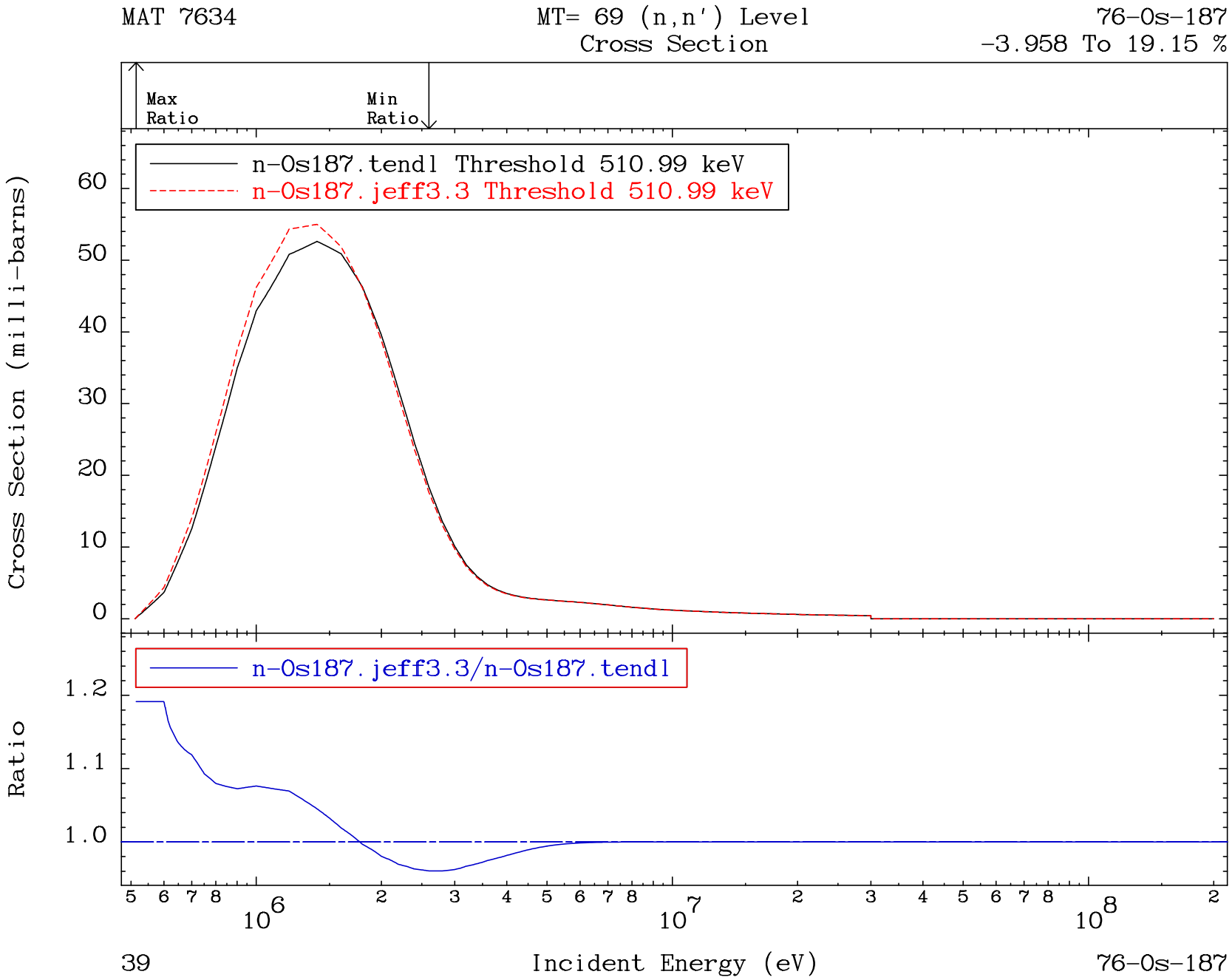

MAT 7634
MT= 64 (n,n') Level
Cross Section
76-0s-187
-4.921 To 13.23 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 444.39 keV
n-0s187.jeff3.3 Threshold 444.39 keV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.1
1.0
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
34
Incident Energy (eV)
76-0s-187

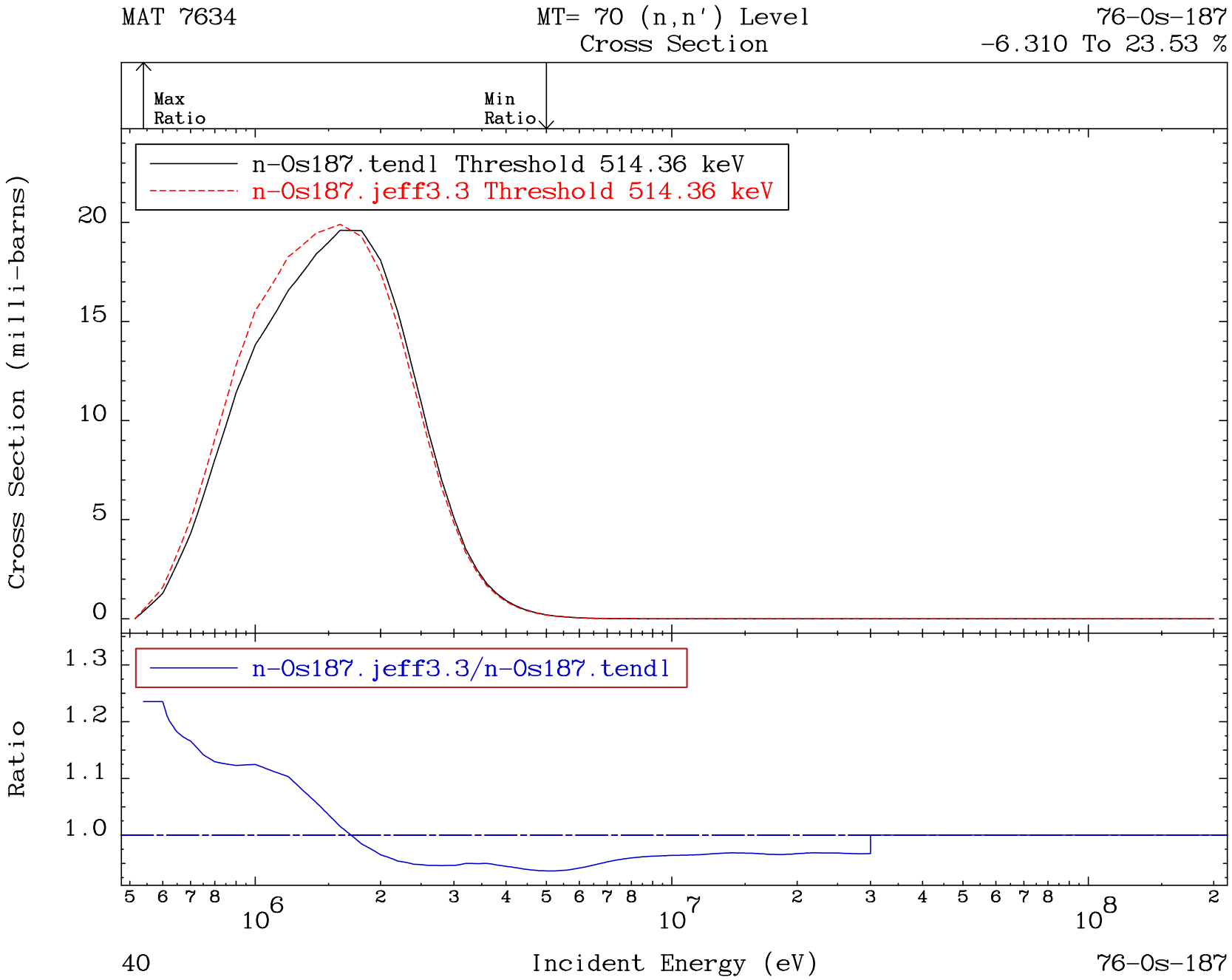

MAT 7634
MT= 65 (n,n') Level
Cross Section
76-0s-187
-3.622 To 9.312 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 447.49 keV
n-0s187.jeff3.3 Threshold 447.49 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.10
1.05
1.00
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
35
Incident Energy (eV)
76-0s-187

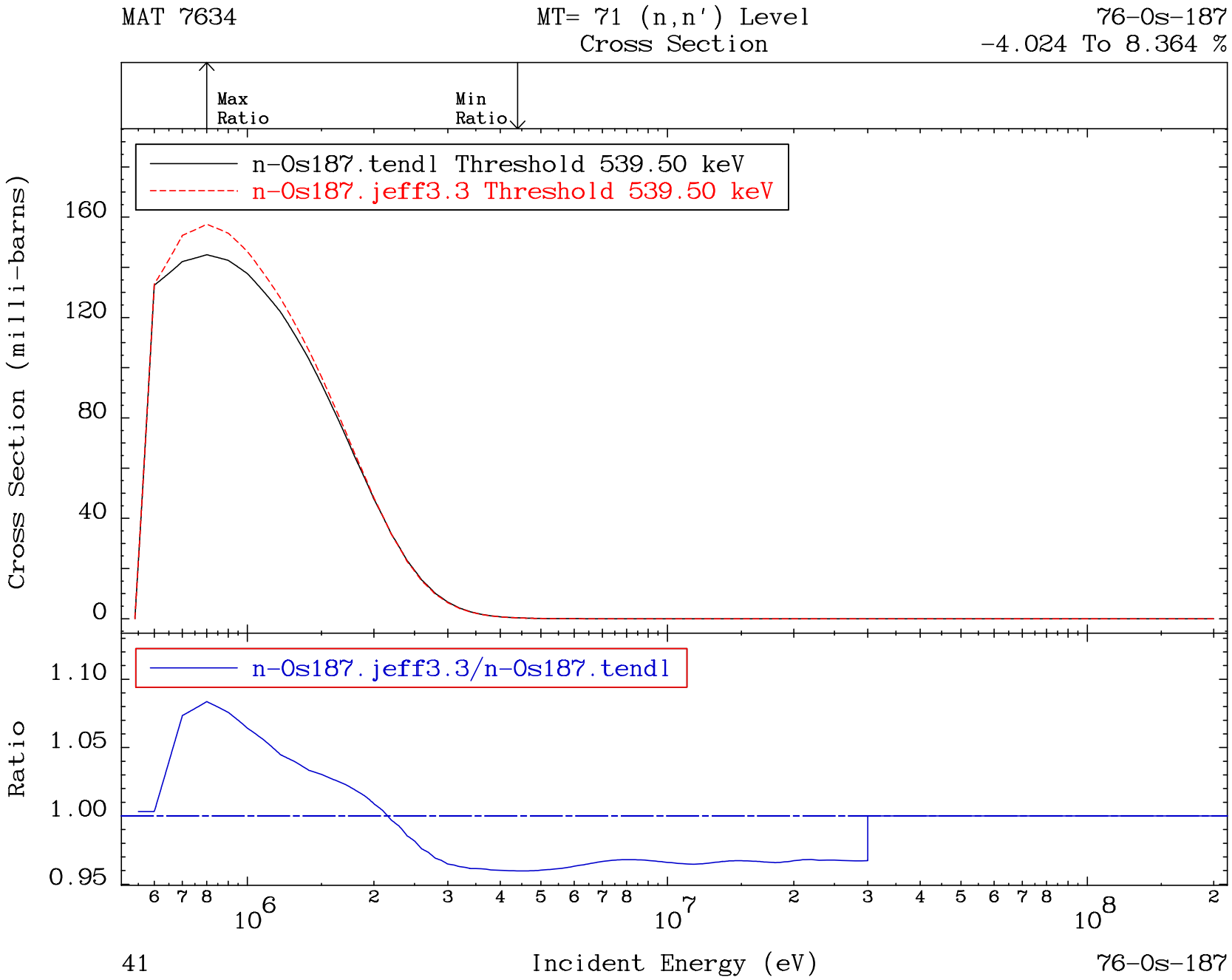

MAT 7634
MT= 66 (n,n') Level
Cross Section
76-0s-187
-6.330 To 24.35 %
Max
Ratio
Min
Ratio
n-0s187.tendl Threshold 461.81 keV
n-0s187.jeff3.3 Threshold 461.81 keV
Cross Section (milli-barns)
25
20
15
10
5
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.3
1.2
1.1
1.0
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
36
Incident Energy (eV)
76-0s-187

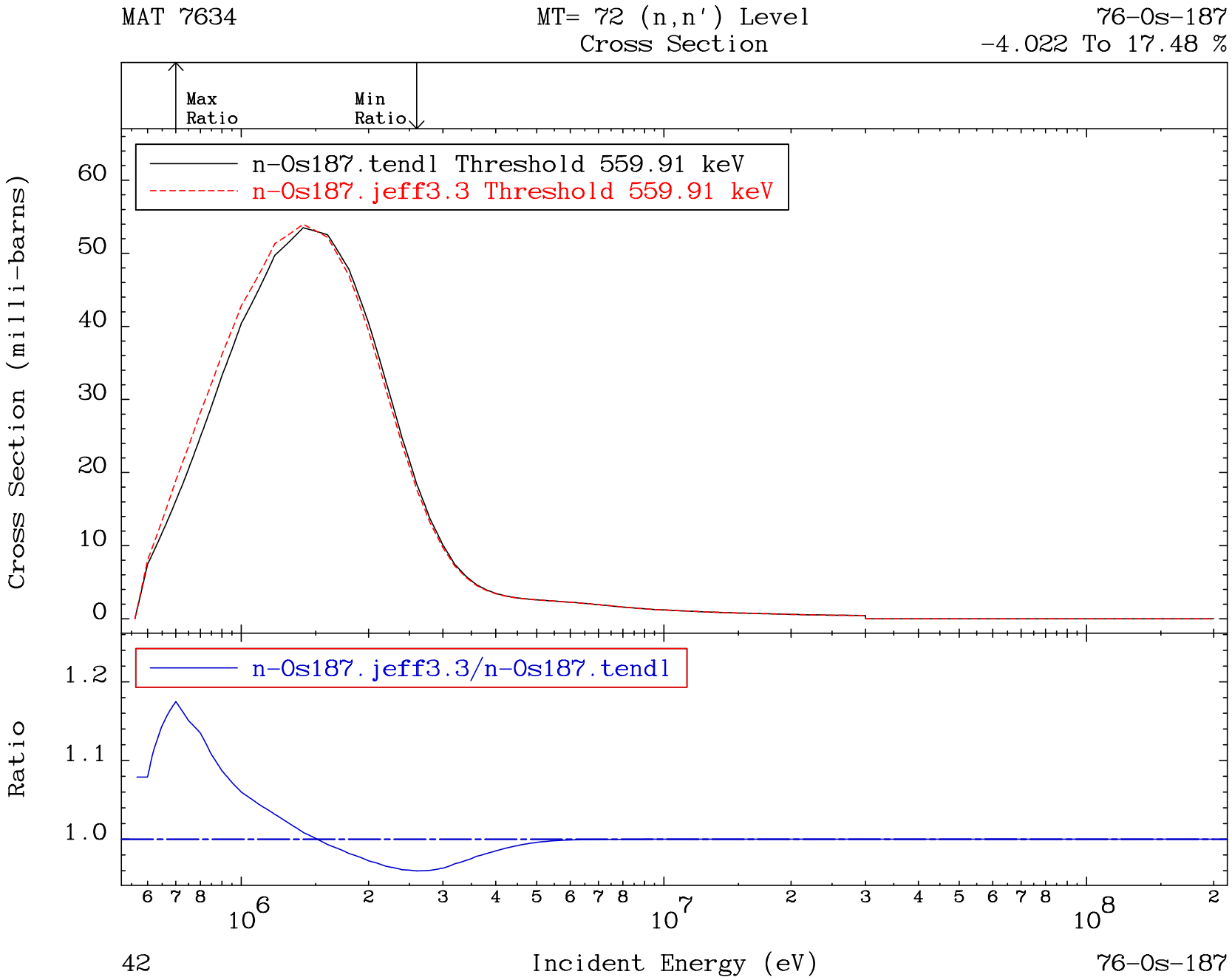

MAT 7634
MT= 67 (n,n') Level
Cross Section
76-0s-187
-4.149 To 12.52 %
Max
Ratio
Min
Ratio
n-0s187.tendl Threshold 466.50 keV
n-0s187.jeff3.3 Threshold 466.50 keV
Cross Section (milli-barns)
200
150
100
50
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.10
1.00
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
37
Incident Energy (eV)
76-0s-187

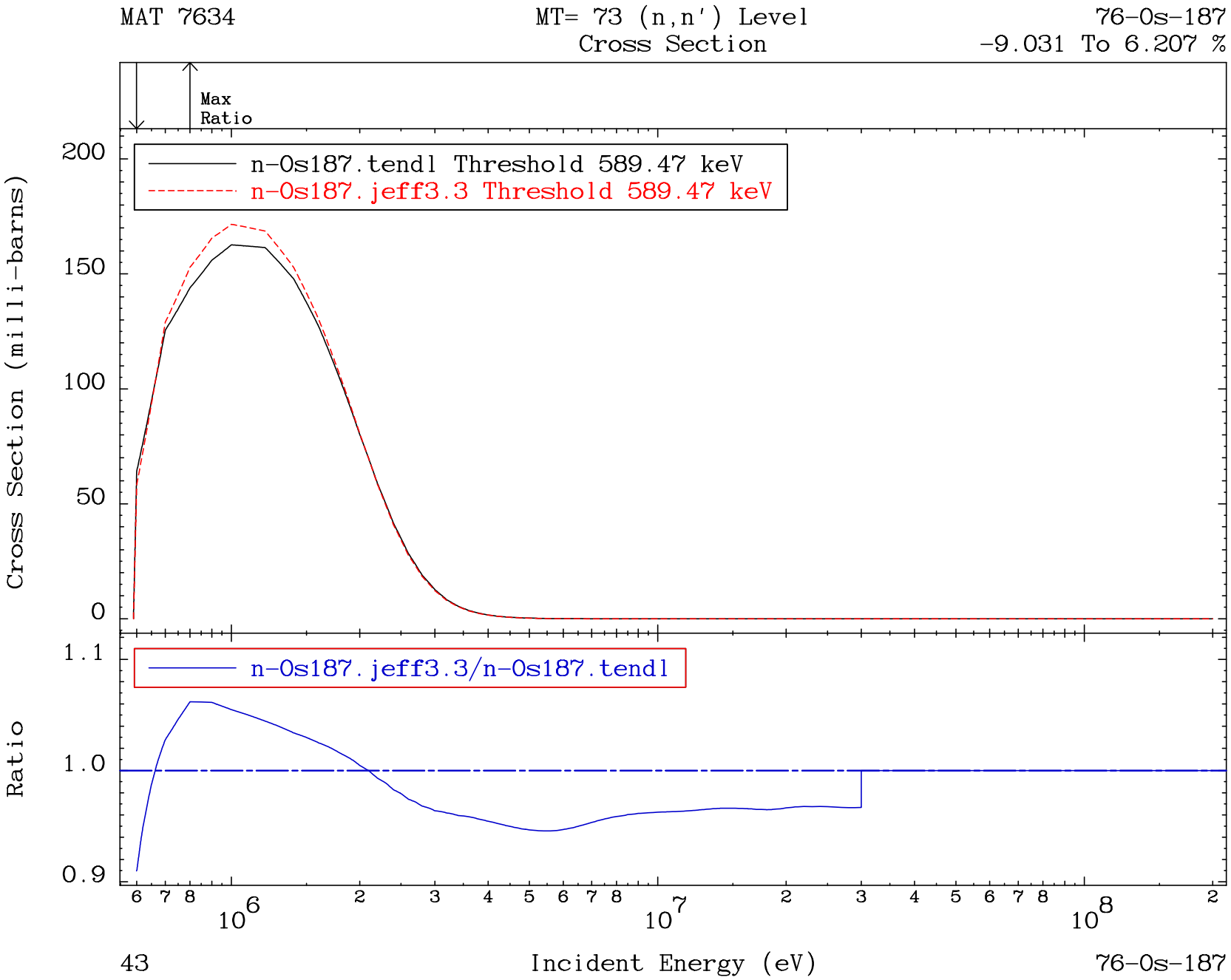

MAT 7634
MT= 68 (n,n') Level
Cross Section
76-0s-187
-5.368 To 4.756 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 504.15 keV
n-0s187.jeff3.3 Threshold 504.15 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.05
1.00
0.95
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
38
Incident Energy (eV)
76-0s-187

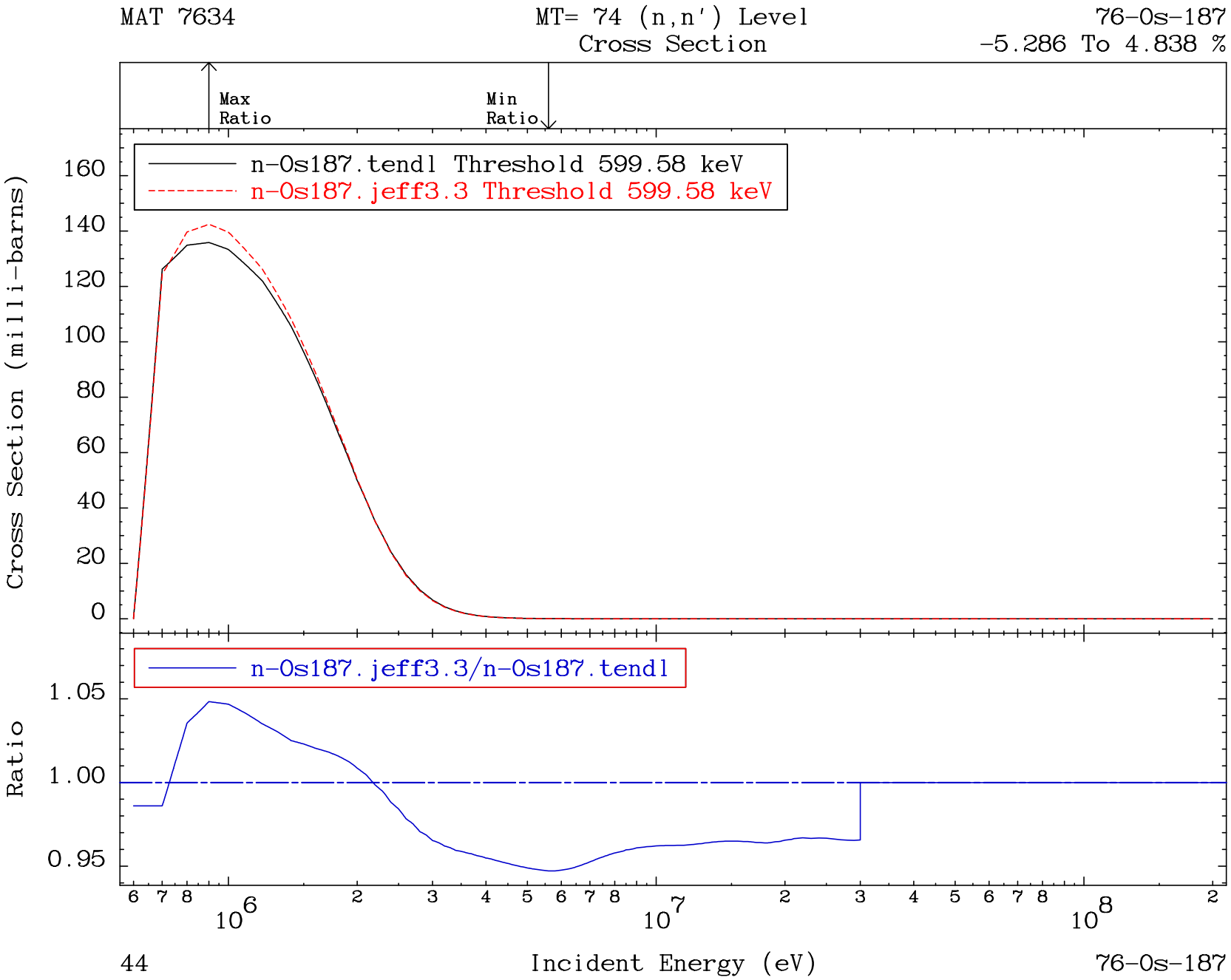

MAT 7634
MT= 69 (n,n') Level
Cross Section
76-0s-187
-3.958 To 19.15 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 510.99 keV
n-0s187.jeff3.3 Threshold 510.99 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.2
1.1
1.0
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
39
Incident Energy (eV)
76-0s-187

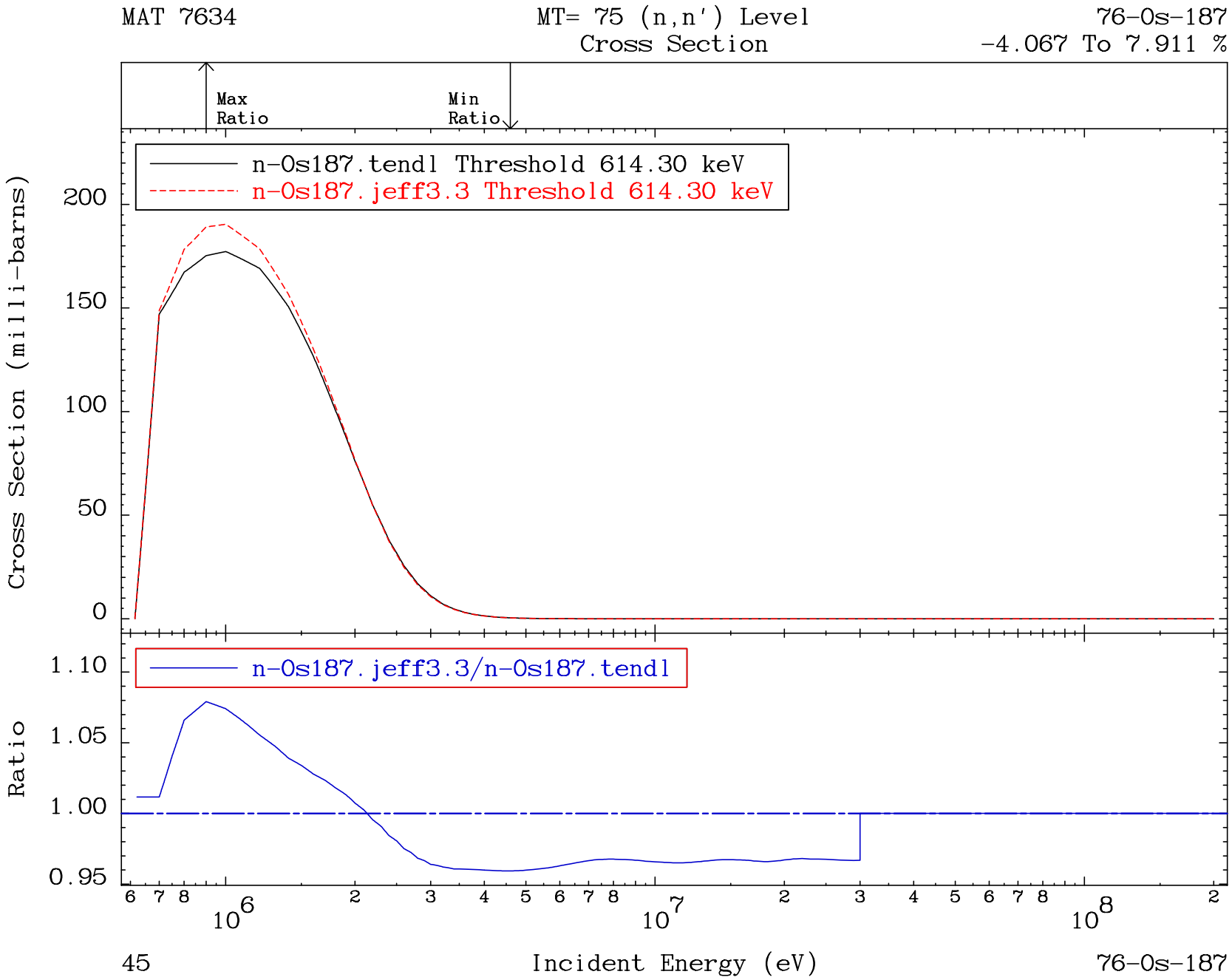

MAT 7634
MT= 70 (n,n') Level
Cross Section
76-0s-187
-6.310 To 23.53 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 514.36 keV
n-0s187.jeff3.3 Threshold 514.36 keV
Cross Section (milli-barns)
20
15
10
5
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.3
1.2
1.1
1.0
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
40
Incident Energy (eV)
76-0s-187

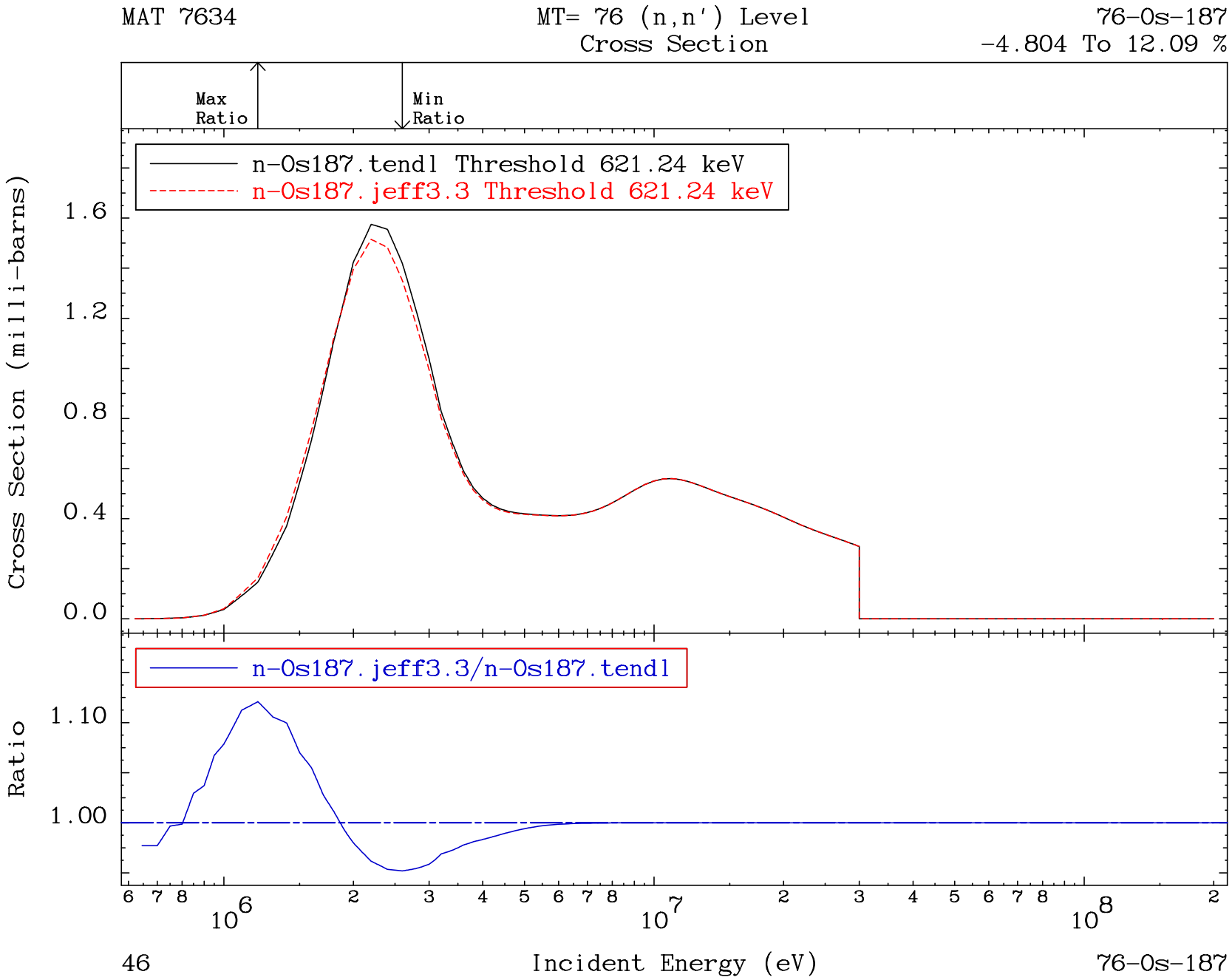

MAT 7634
MT= 71 (n,n') Level
Cross Section
76-0s-187
-4.024 To 8.364 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 539.50 keV
n-0s187.jeff3.3 Threshold 539.50 keV
Cross Section (milli-barns)
160
120
80
40
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.10
1.05
1.00
0.95
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
41
Incident Energy (eV)
76-0s-187

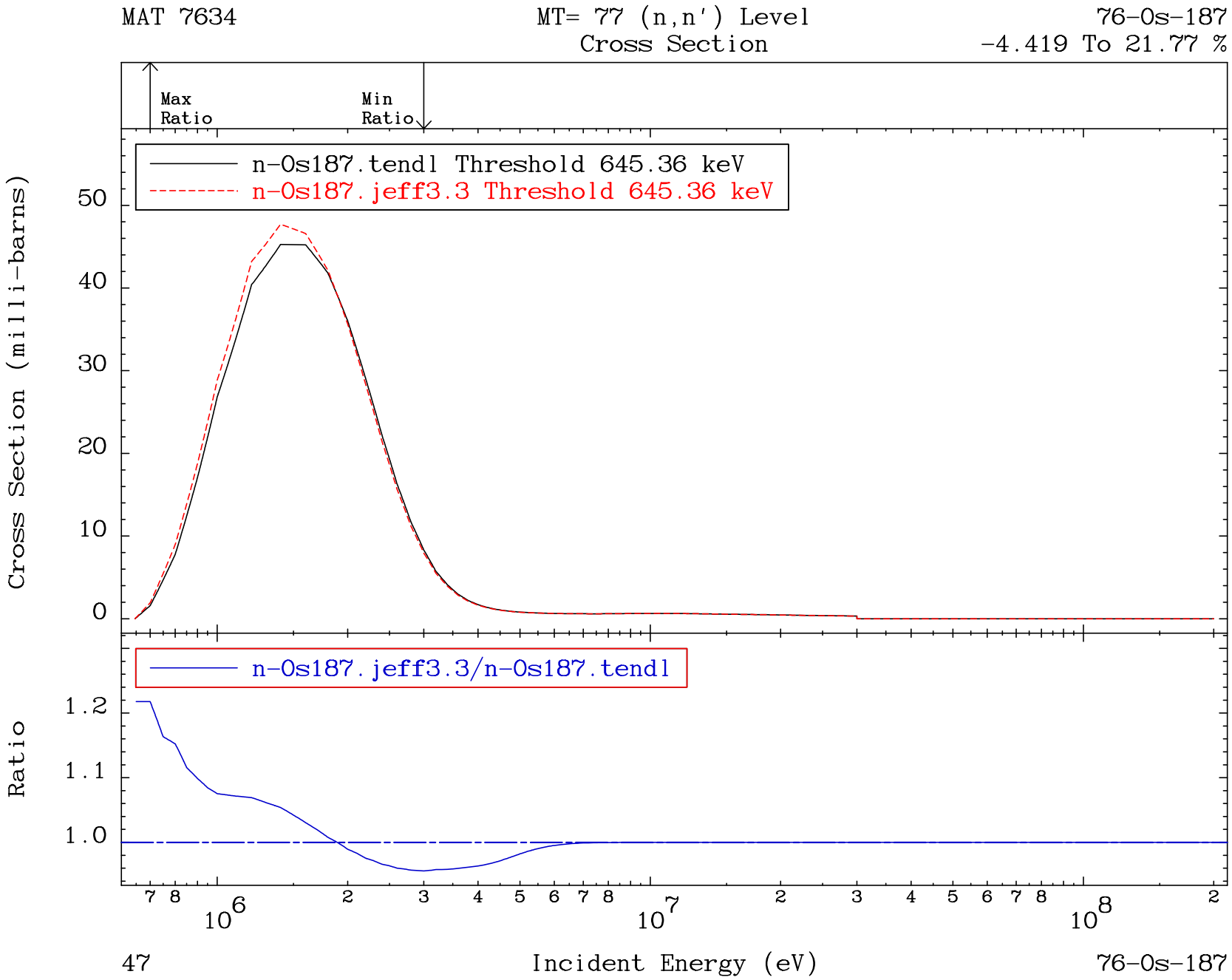

MAT 7634
MT= 72 (n,n') Level
Cross Section
76-0s-187
-4.022 To 17.48 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 559.91 keV
n-0s187.jeff3.3 Threshold 559.91 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.2
1.1
1.0
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
42
Incident Energy (eV)
76-0s-187

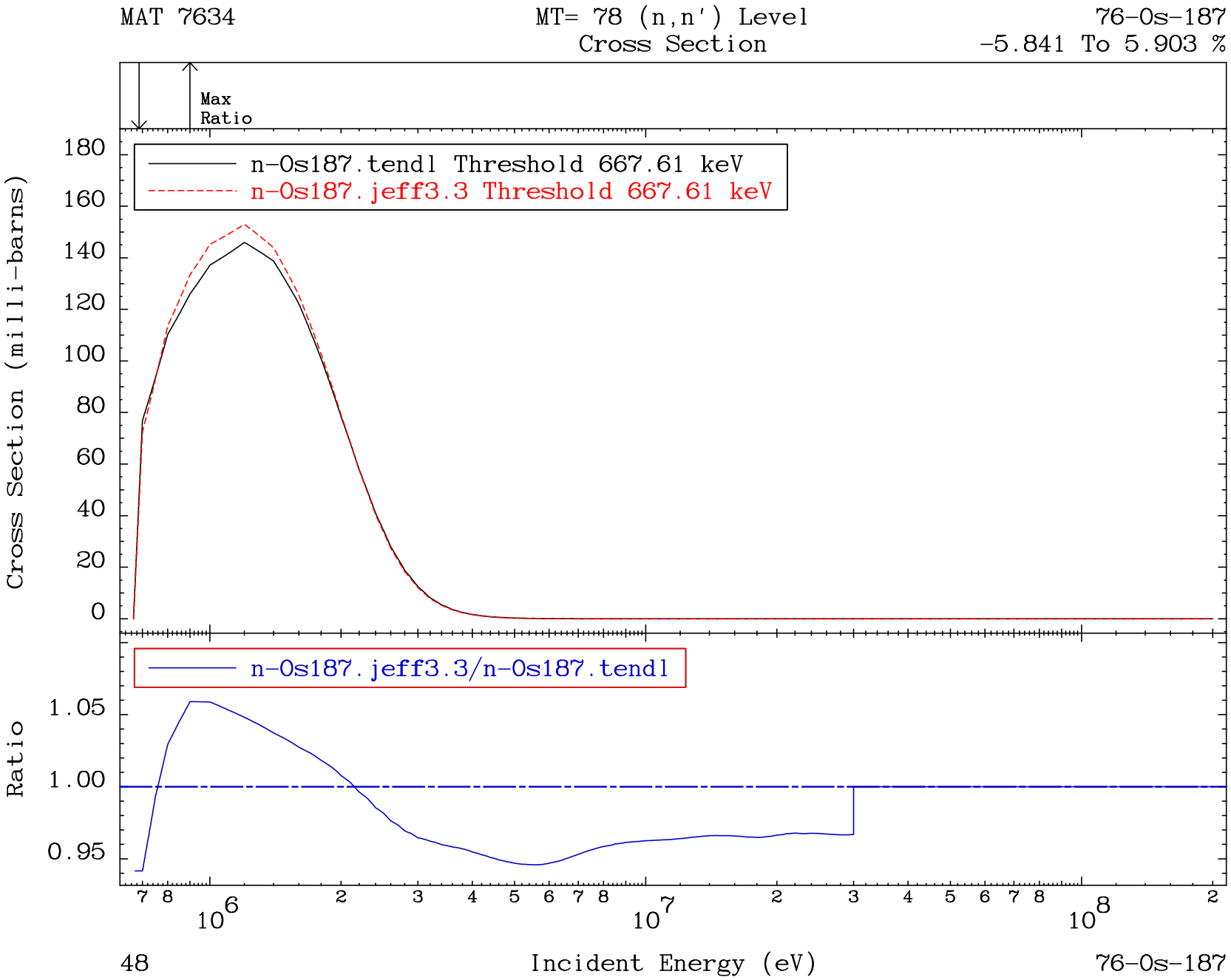

MAT 7634
MT= 73 (n,n') Level
Cross Section
76-0s-187
-9.031 To 6.207 %
Max
Ratio
n-0s187.tendl Threshold 589.47 keV
n-0s187.jeff3.3 Threshold 589.47 keV
Cross Section (milli-barns)
200
150
100
50
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.1
1.0
0.9
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
43
Incident Energy (eV)
76-0s-187

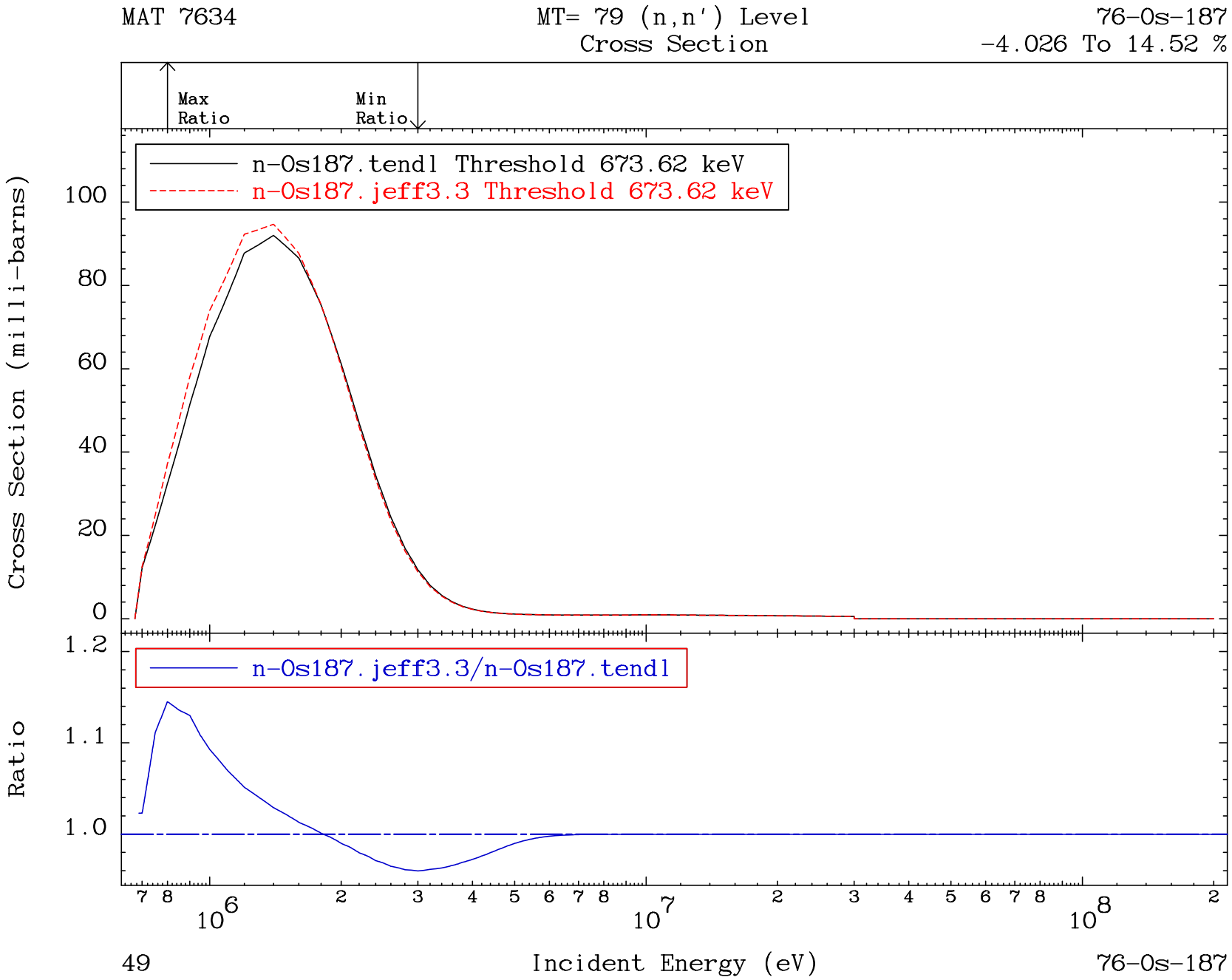

MAT 7634
MT= 74 (n,n') Level
Cross Section
76-0s-187
-5.286 To 4.838 %
Max
Ratio
Min
Ratio
n-0s187.tendl Threshold 599.58 keV
n-0s187.jeff3.3 Threshold 599.58 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.05
1.00
0.95
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
44
Incident Energy (eV)
76-0s-187

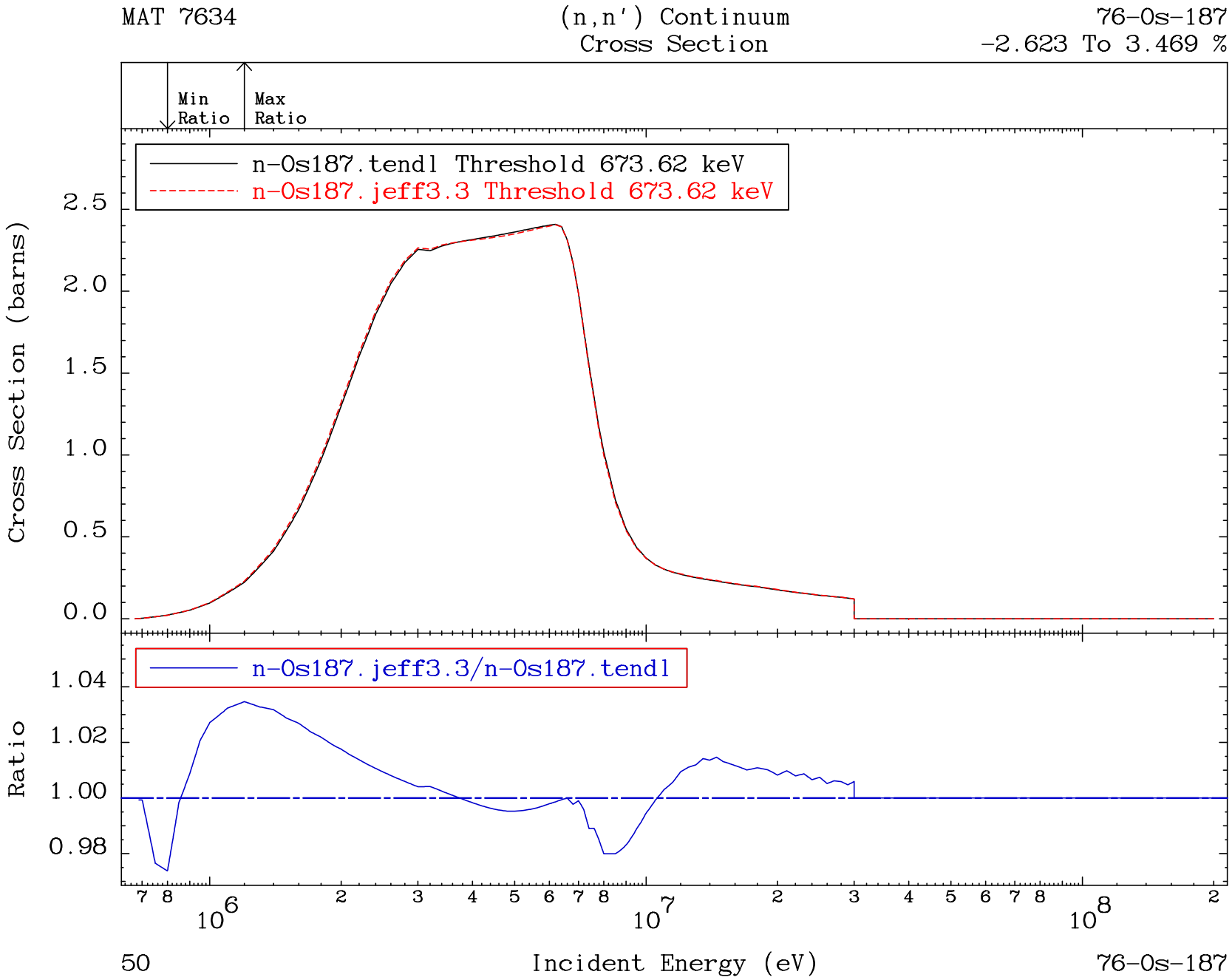

MAT 7634
MT= 75 (n,n') Level
Cross Section
76-0s-187
-4.067 To 7.911 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 614.30 keV
n-0s187.jeff3.3 Threshold 614.30 keV
Cross Section (milli-barns)
200
150
100
50
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.10
1.05
1.00
0.95
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
45
Incident Energy (eV)
76-0s-187

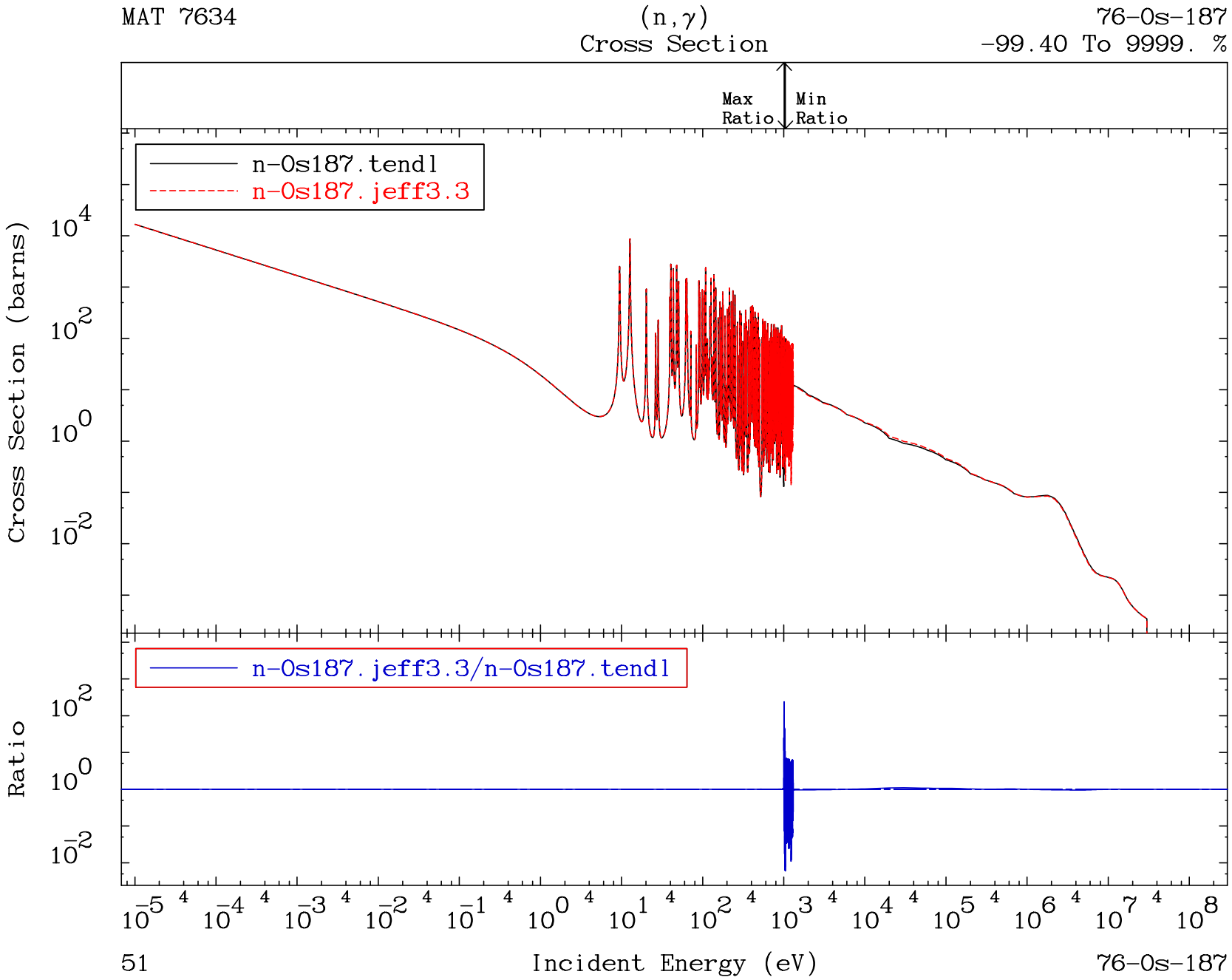

MAT 7634
MT= 76 (n,n') Level
Cross Section
76-0s-187
-4.804 To 12.09 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 621.24 keV
n-0s187.jeff3.3 Threshold 621.24 keV
Cross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.10
1.00
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
46
Incident Energy (eV)
76-0s-187

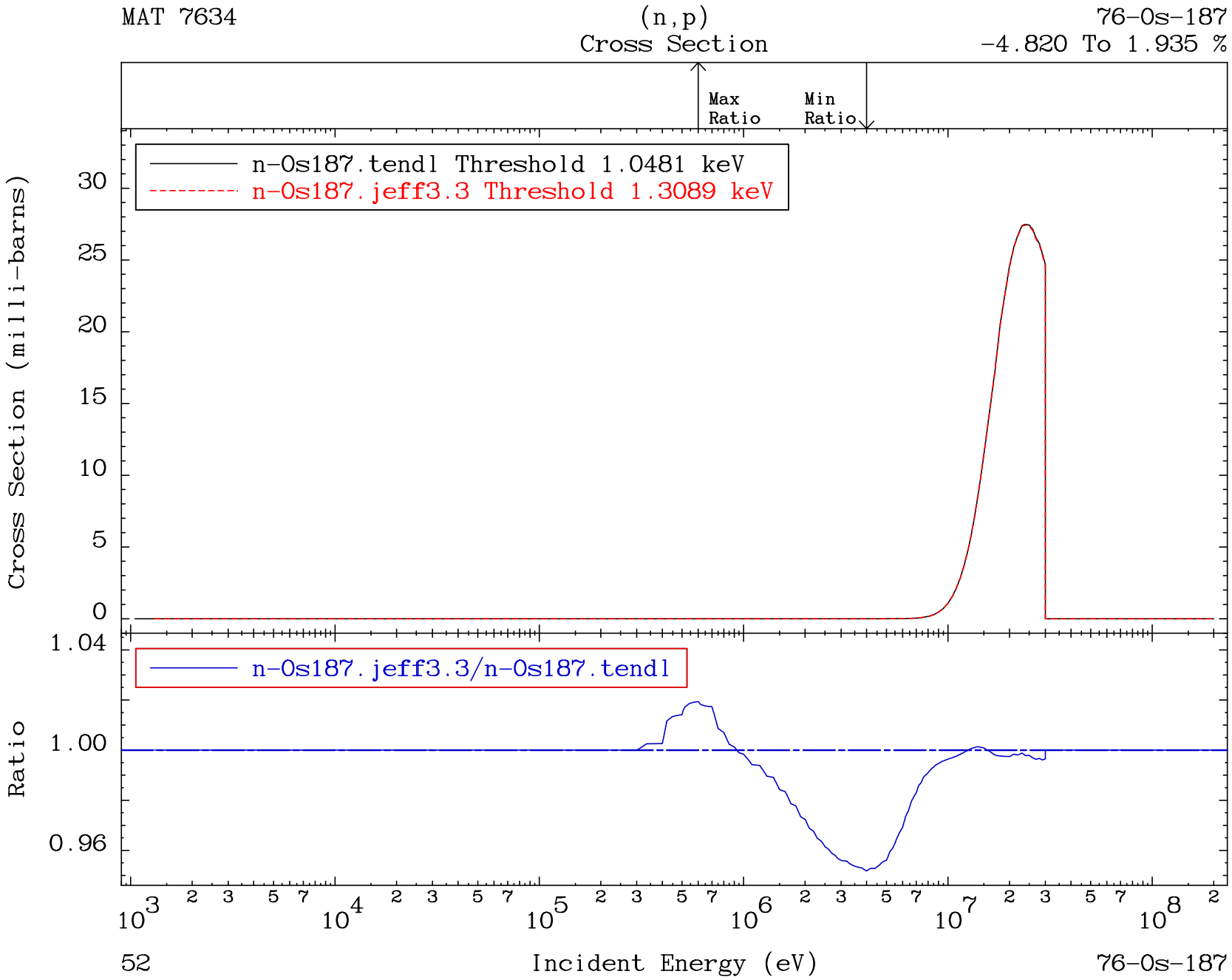

MAT 7634
MT= 77 (n,n') Level
Cross Section
76-0s-187
-4.419 To 21.77 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 645.36 keV
n-0s187.jeff3.3 Threshold 645.36 keV
Cross Section (milli-barns)
50
40
30
20
10
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.2
1.1
1.0
7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
47
Incident Energy (eV)
76-0s-187

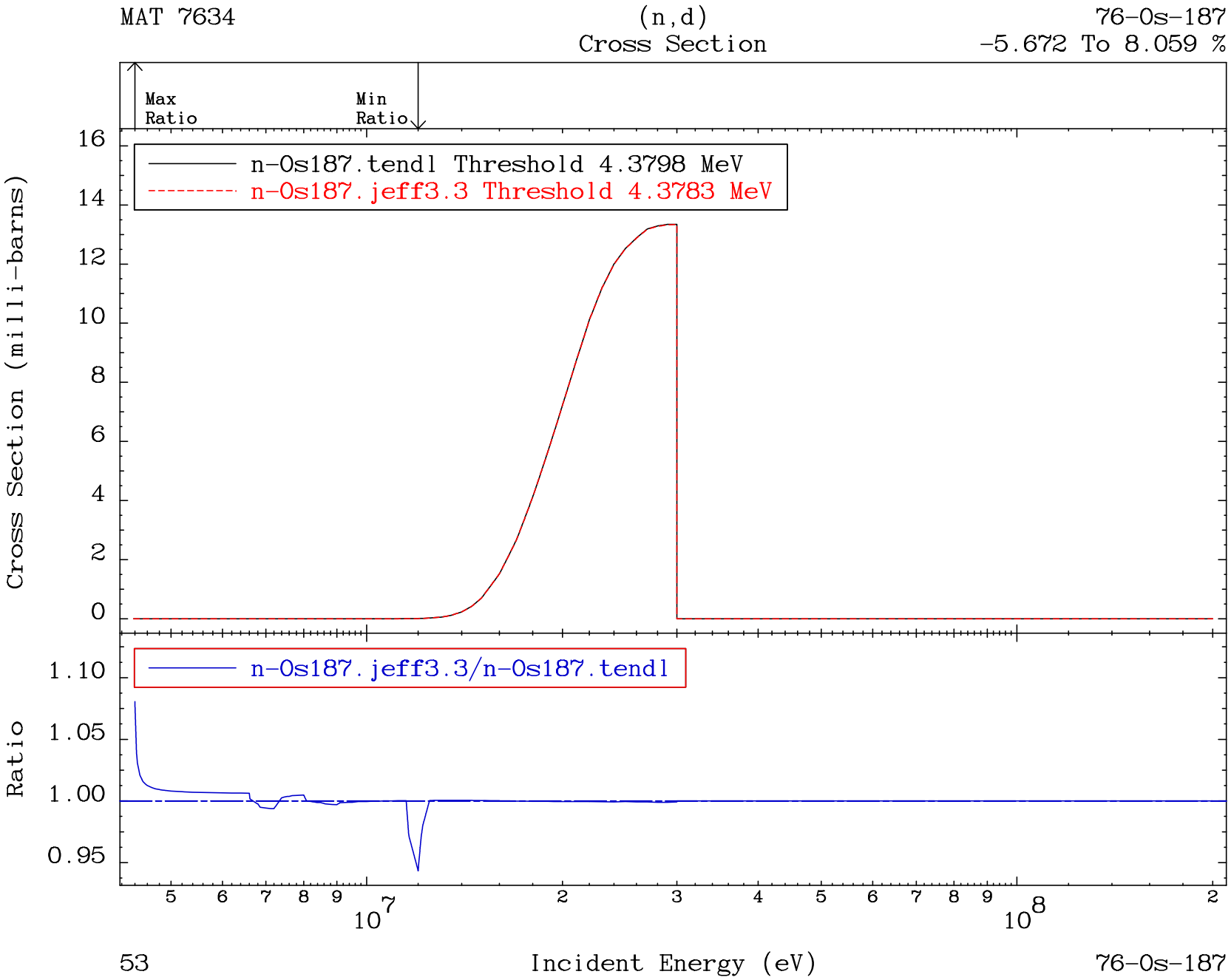

MAT 7634
MT= 78 (n,n') Level
Cross Section
76-Os-187
-5.841 To 5.903 %
Max
Ratio
n-Os187.tendl Threshold 667.61 keV
n-Os187.jeff3.3 Threshold 667.61 keV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
n-Os187.jeff3.3/n-Os187.tendl
Ratio
1.05
1.00
0.95
7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
48
Incident Energy (eV)
76-Os-187

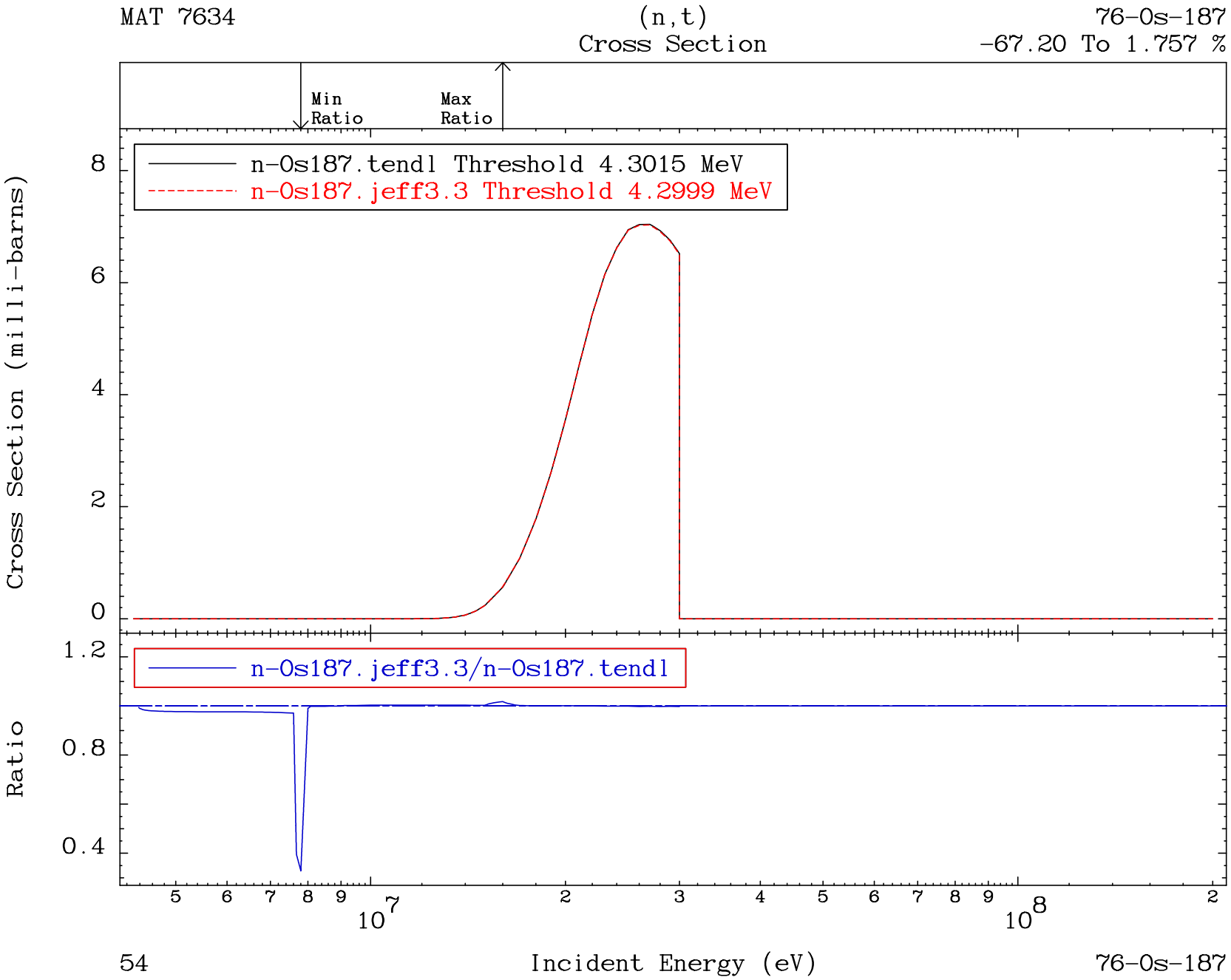

MAT 7634
MT= 79 (n,n') Level
Cross Section
76-0s-187
-4.026 To 14.52 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 673.62 keV
n-0s187.jeff3.3 Threshold 673.62 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.2
1.1
1.0
7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
49
Incident Energy (eV)
76-0s-187

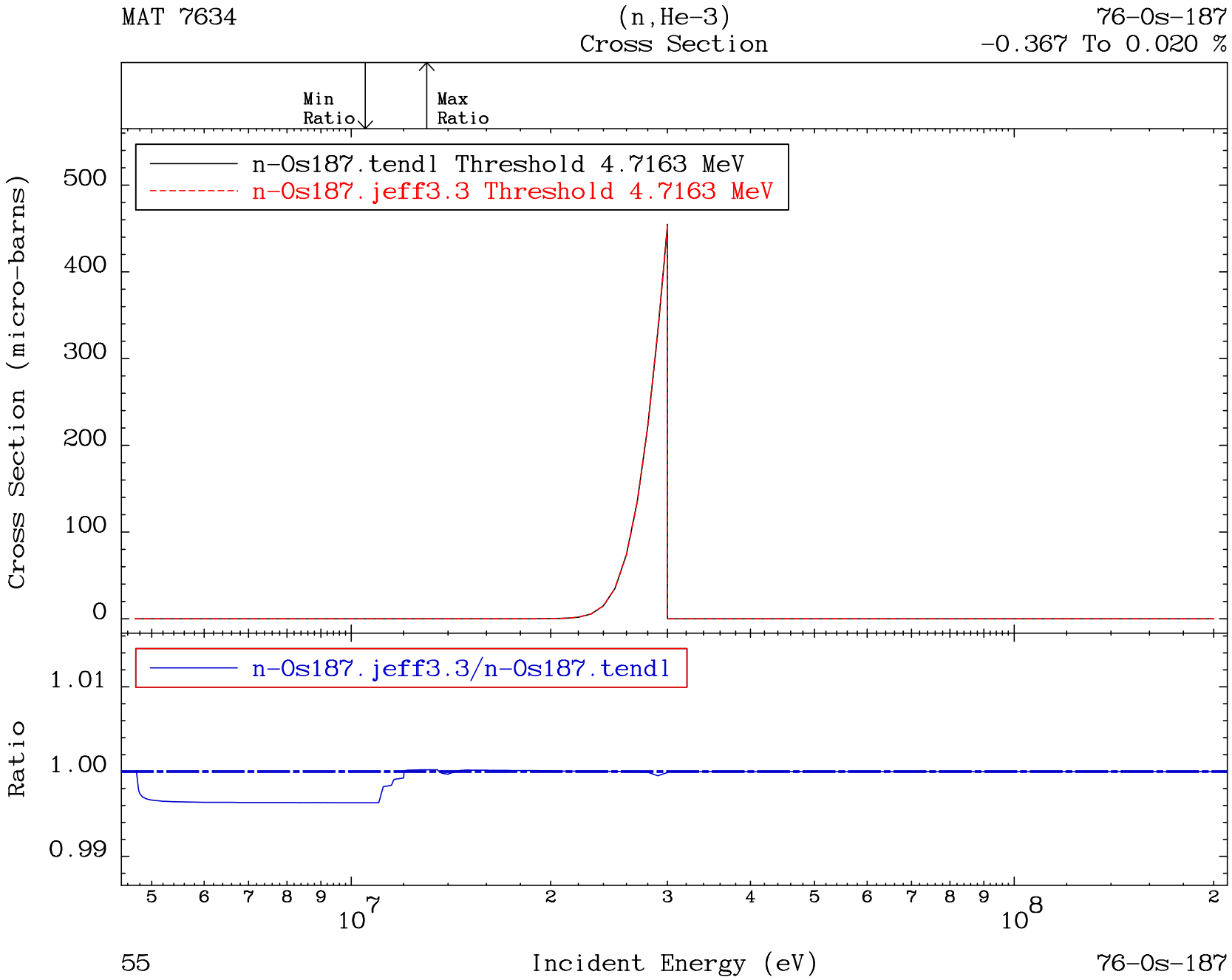

MAT 7634
(n,n') Continuum
Cross Section
76-0s-187
-2.623 To 3.469 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 673.62 keV
n-0s187.jeff3.3 Threshold 673.62 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.04
1.02
1.00
0.98
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
50
Incident Energy (eV)
76-0s-187

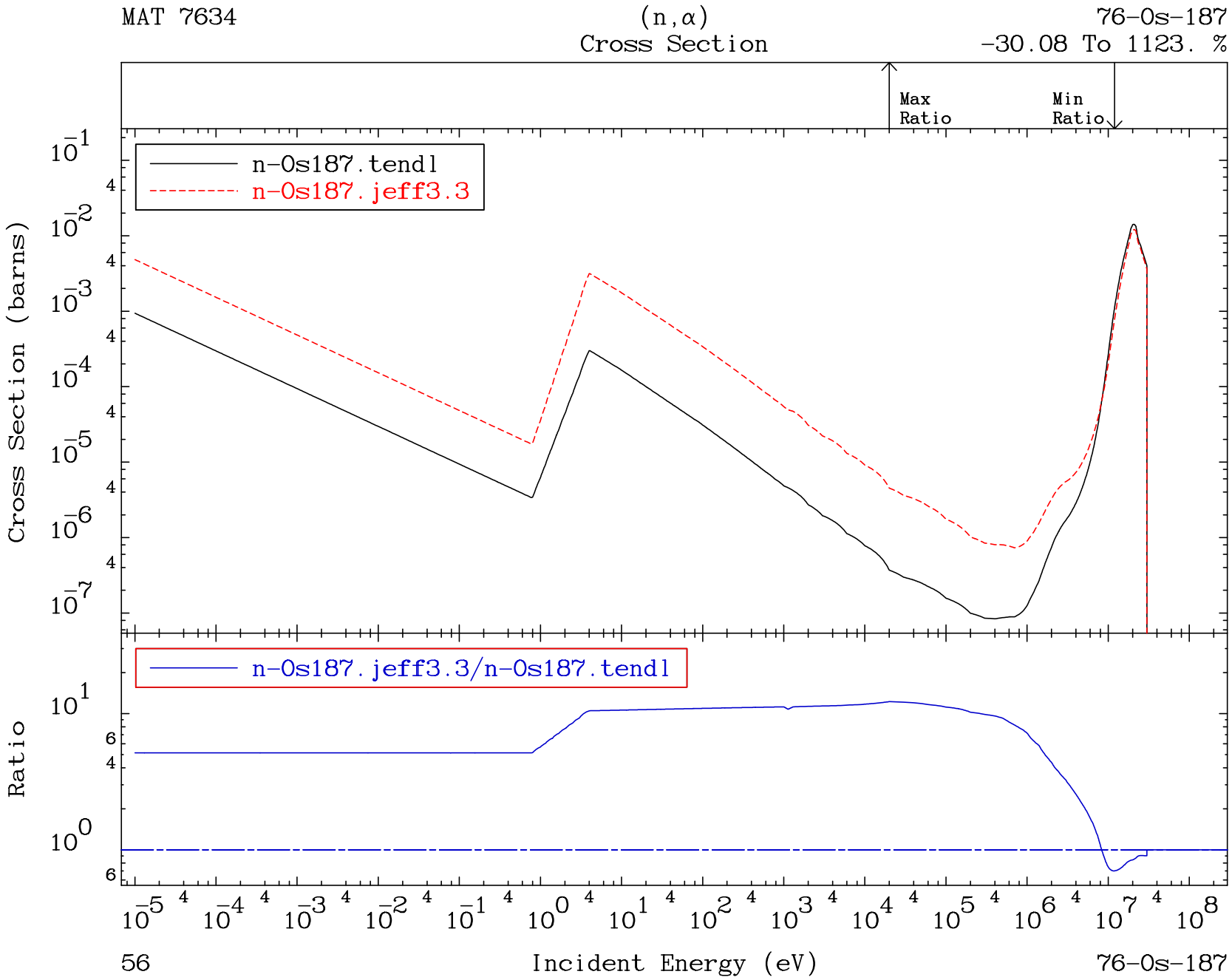

MAT 7634
(n,γ)
Cross Section
76-0s-187
-99.40 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.jeff3.3
Cross Section (barns)
10^4
10^2
10^0
10^-2
n-0s187.jeff3.3/n-0s187.tendl
Ratio
10^2
10^0
10^-2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
51
Incident Energy (eV)
76-0s-187

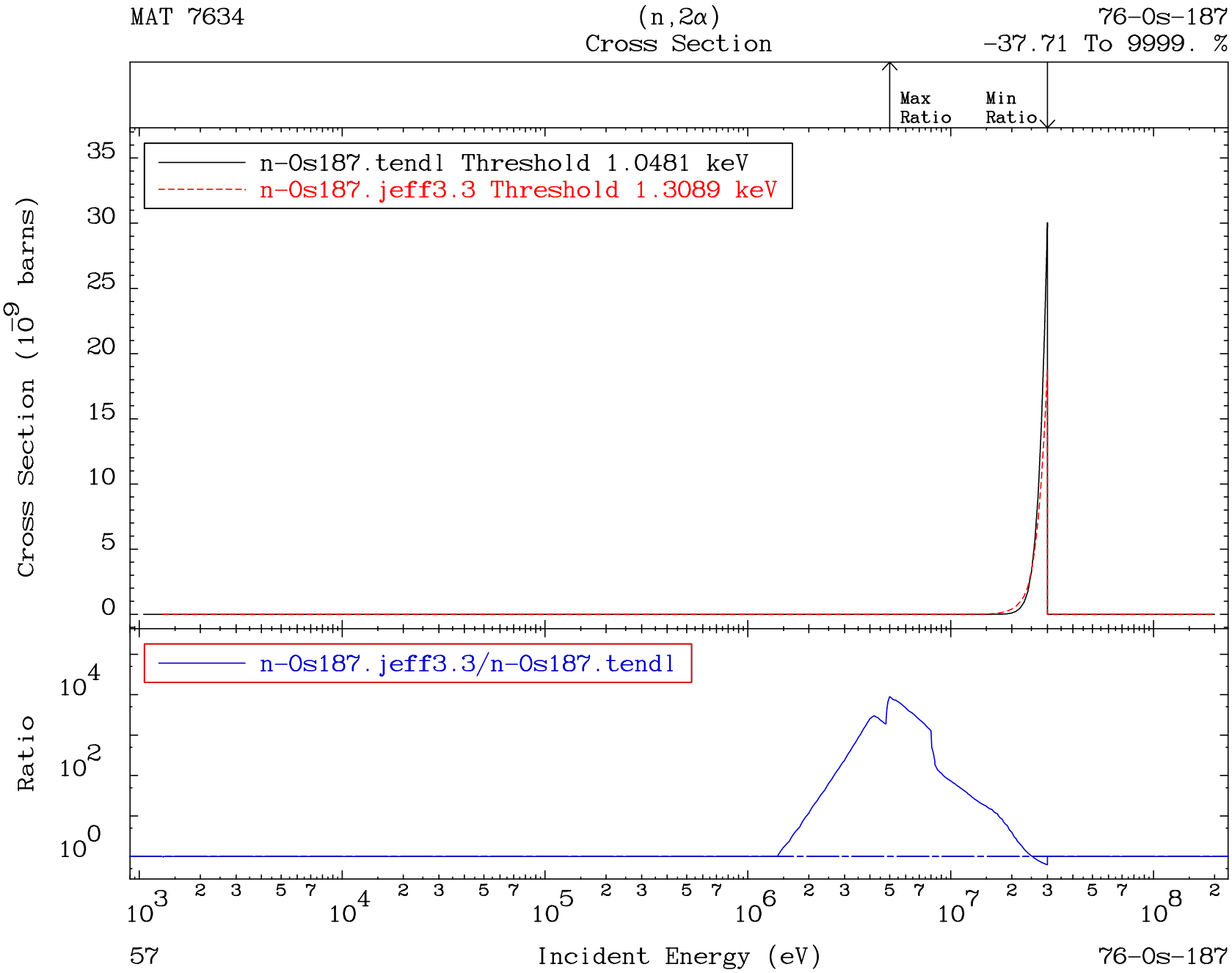

MAT 7634
(n,p)
Cross Section
76-0s-187
-4.820 To 1.935 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 1.0481 keV
n-0s187.jeff3.3 Threshold 1.3089 keV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.04
1.00
0.96
$10^3$ 2 3 5 7 $10^4$ 2 3 5 7 $10^5$ 2 3 5 7 $10^6$ 2 3 5 7 $10^7$ 2 3 5 7 $10^8$ 2
52
Incident Energy (eV)
76-0s-187

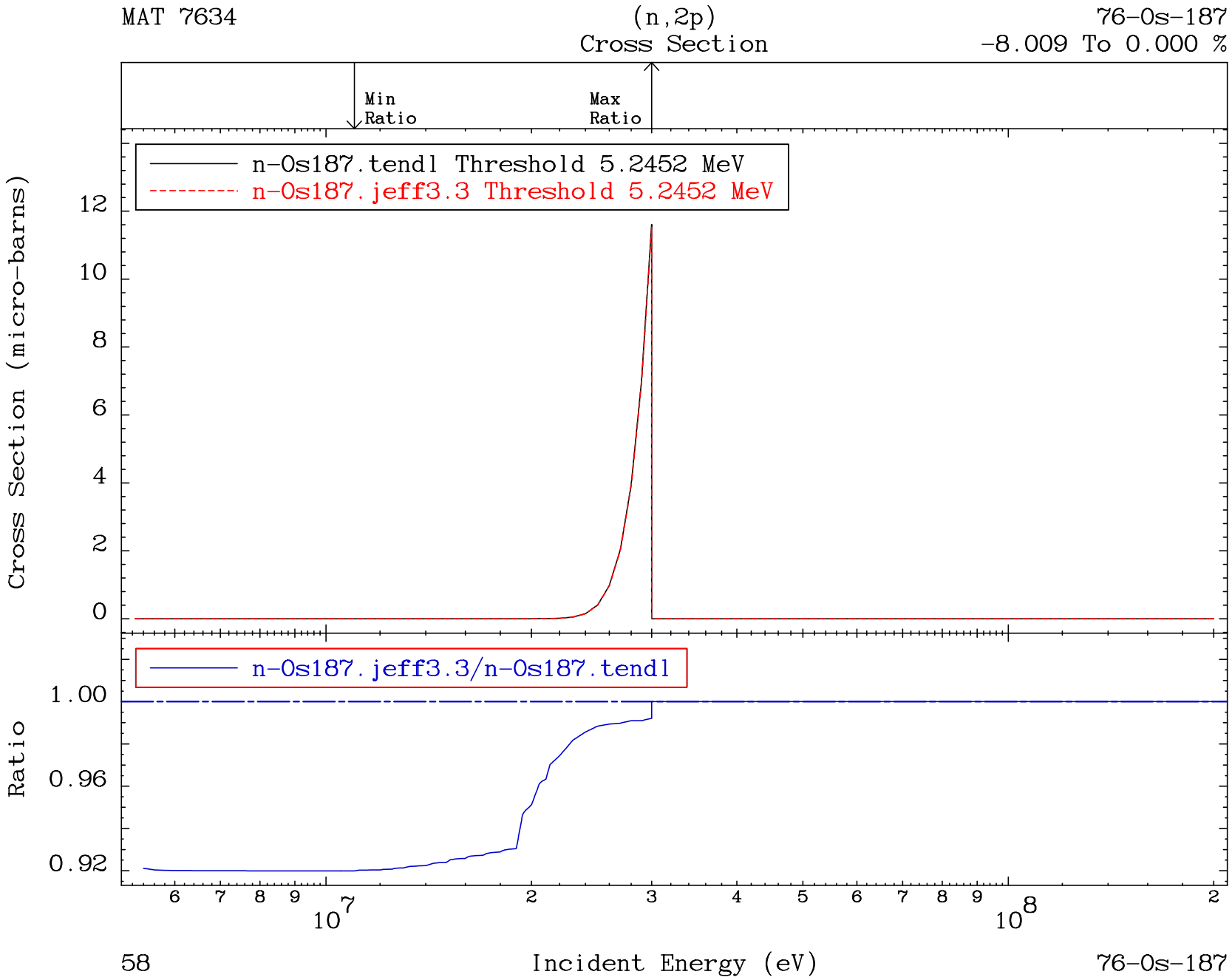

MAT 7634
(n,d)
Cross Section
76-0s-187
-5.672 To 8.059 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 4.3798 MeV
n-0s187.jeff3.3 Threshold 4.3783 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.10
1.05
1.00
0.95
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
53
Incident Energy (eV)
76-0s-187

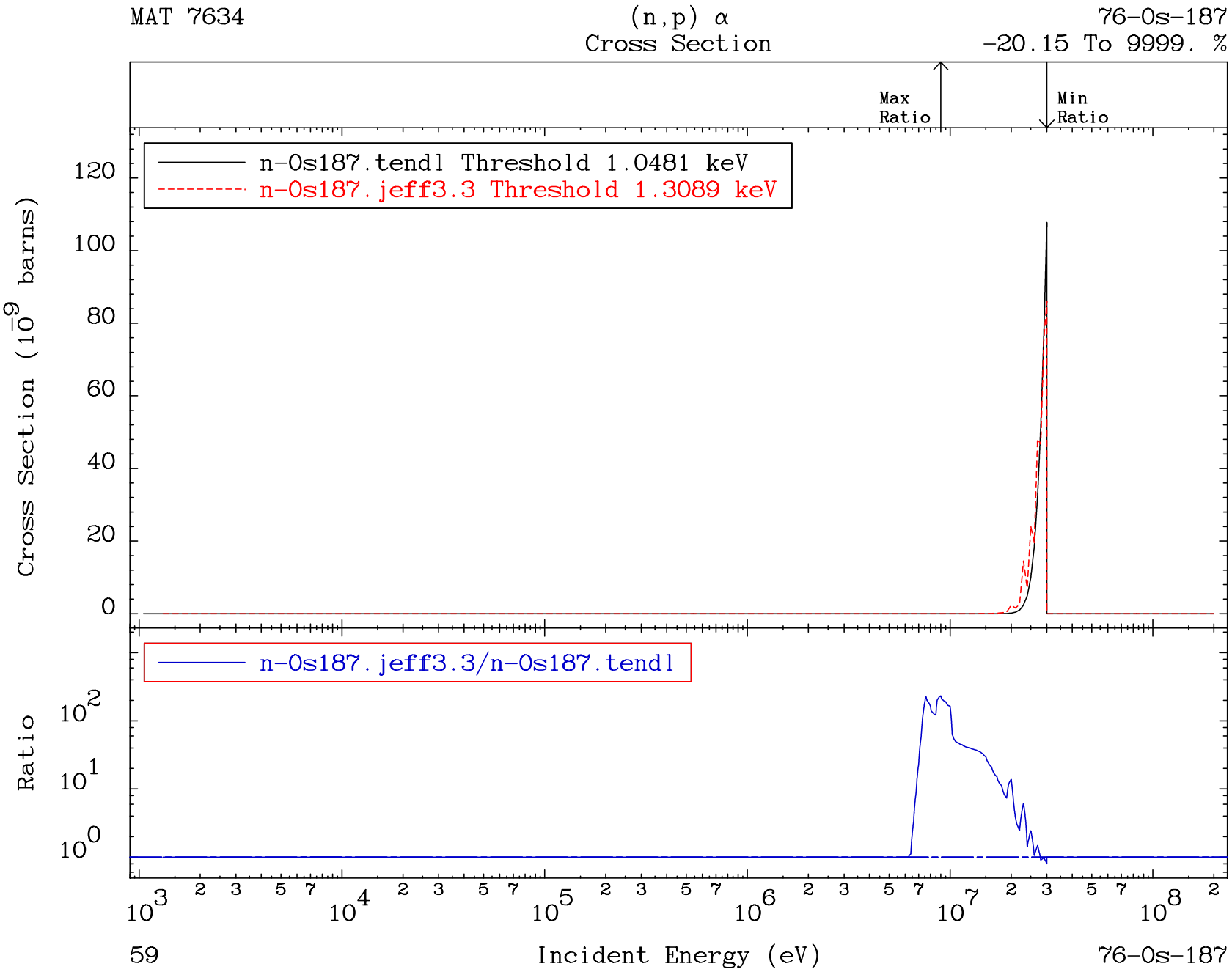

MAT 7634
(n,t)
Cross Section
76-0s-187
-67.20 To 1.757 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 4.3015 MeV
n-0s187.jeff3.3 Threshold 4.2999 MeV
Cross Section (milli-barns)
8
6
4
2
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.2
0.8
0.4
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
54
Incident Energy (eV)
76-0s-187

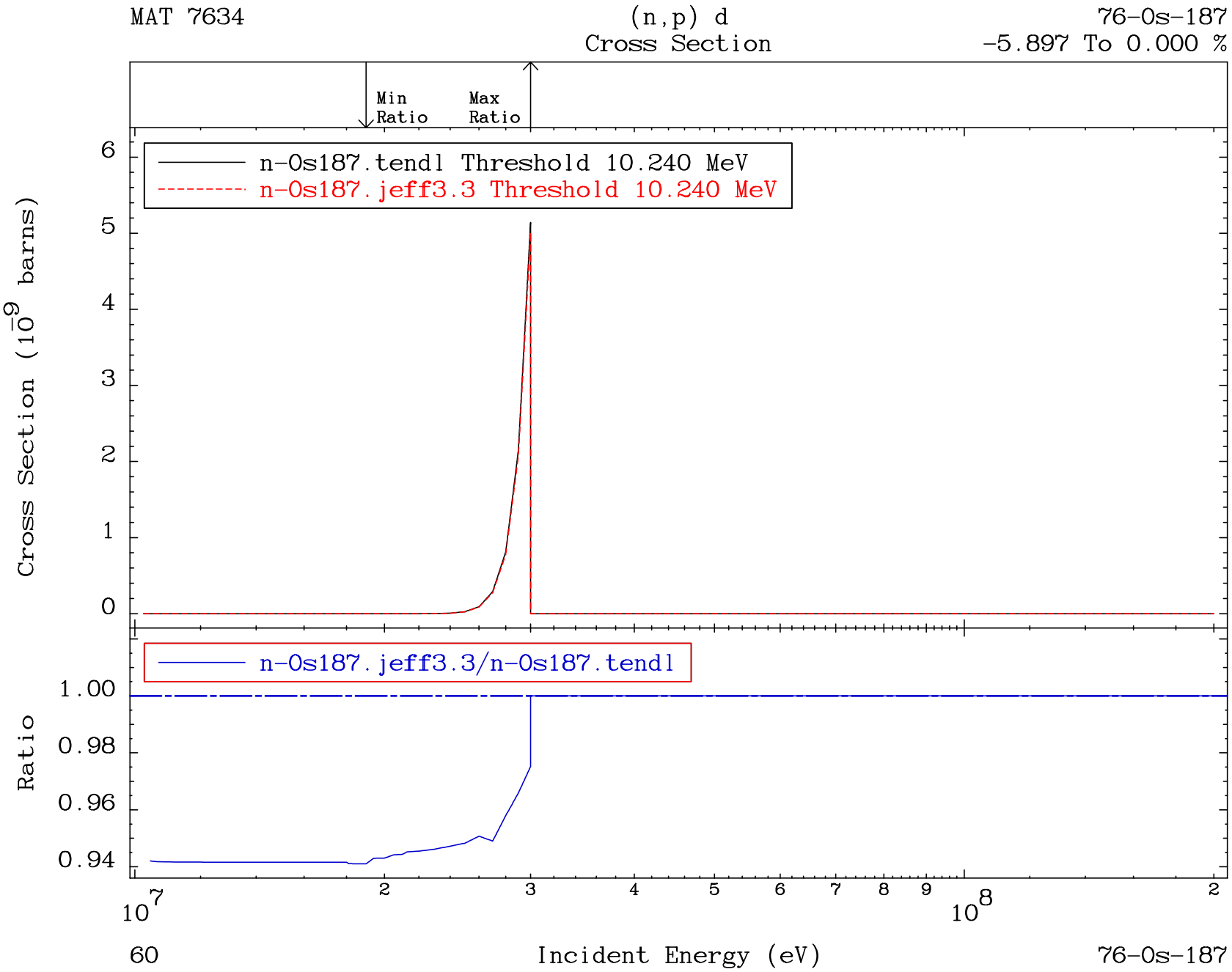

MAT 7634
(n,He-3)
Cross Section
76-0s-187
-0.367 To 0.020 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 4.7163 MeV
n-0s187.jeff3.3 Threshold 4.7163 MeV
Cross Section (micro-barns)
500
400
300
200
100
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.01
1.00
0.99
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
55
Incident Energy (eV)
76-0s-187

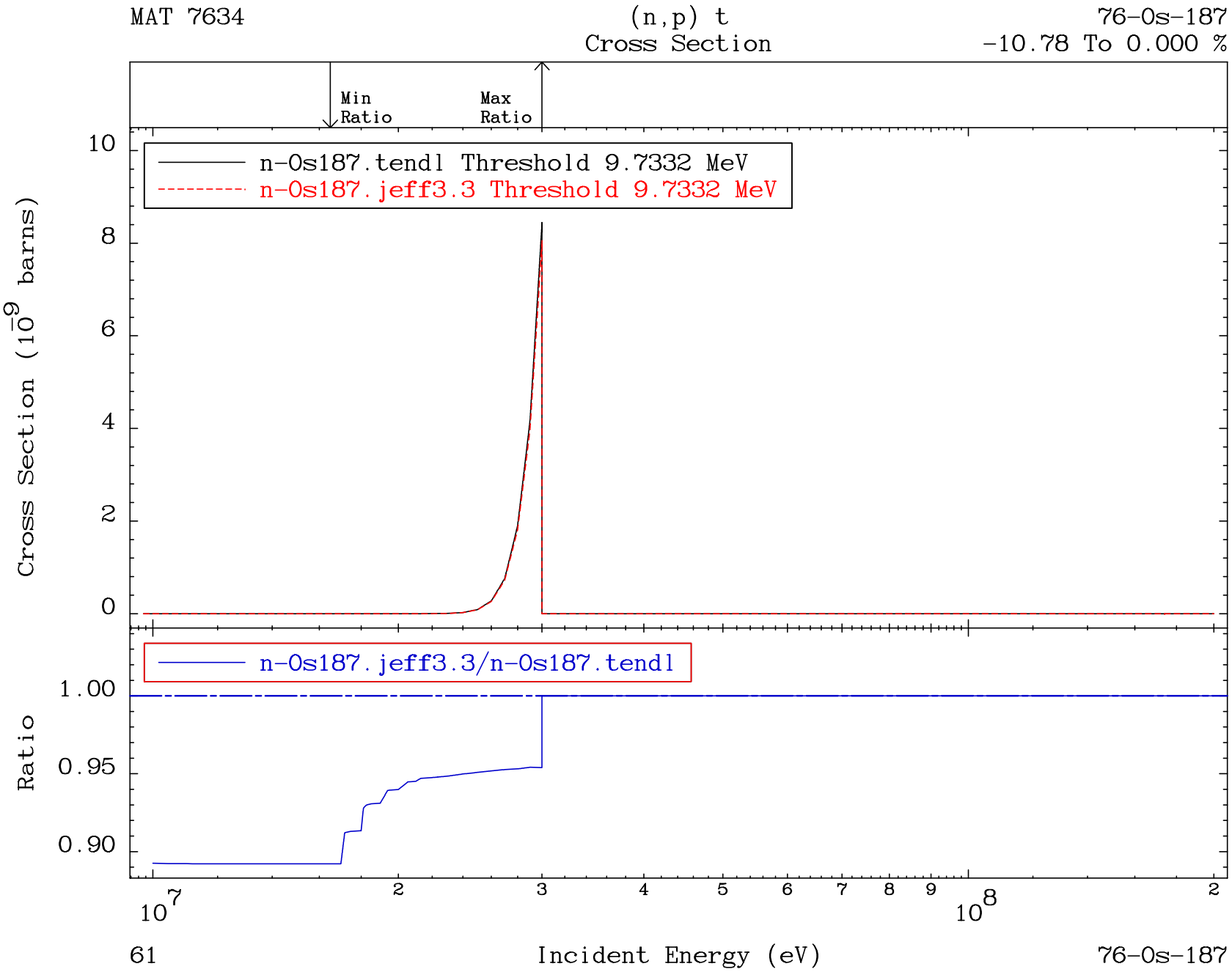

MAT 7634
(n,α)
Cross Section
76-0s-187
-30.08 To 1123. %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.jeff3.3
Cross Section (barns)
n-0s187.jeff3.3/n-0s187.tendl
Ratio
Incident Energy (eV)
56
76-0s-187

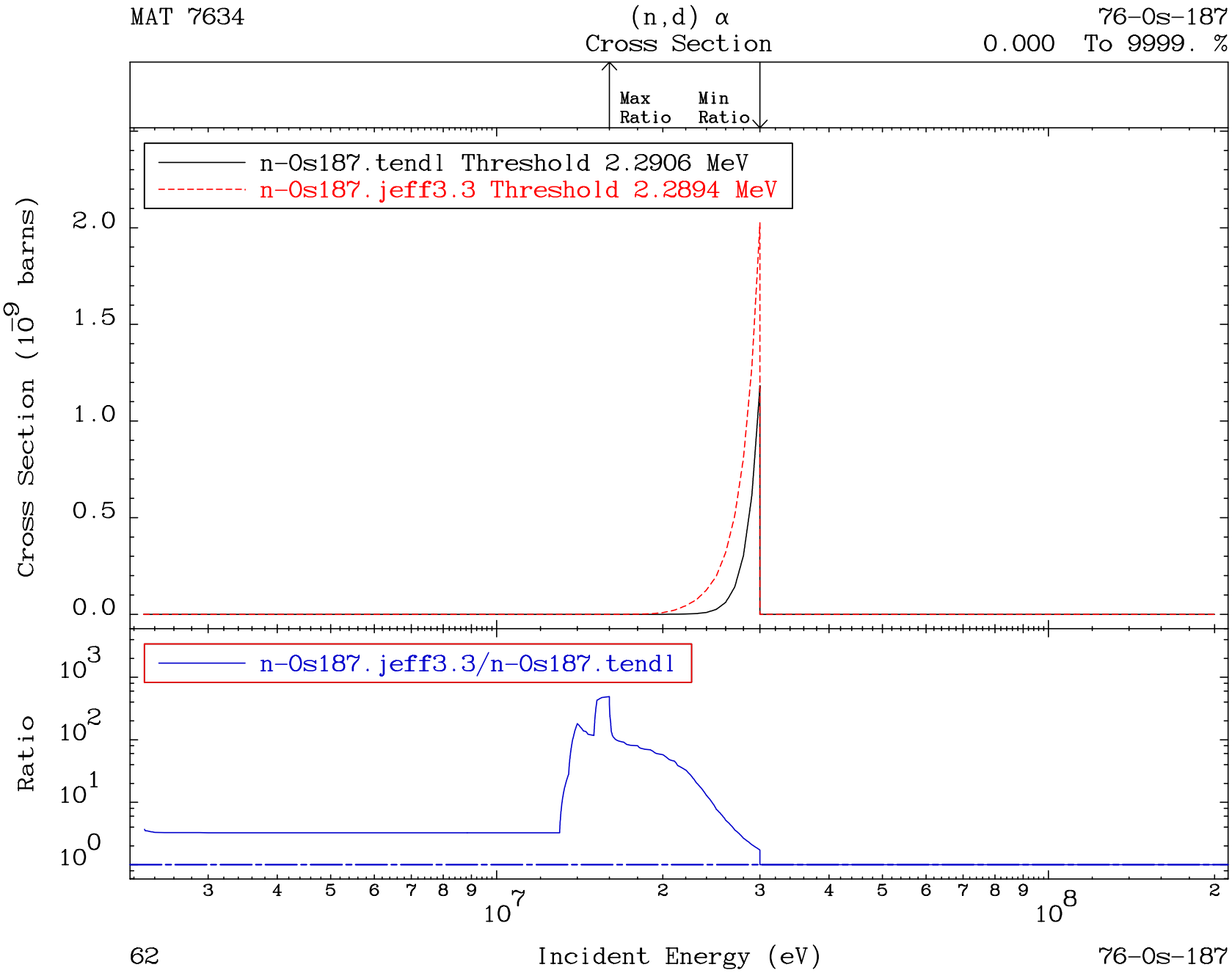

MAT 7634
(n,2α)
Cross Section
76-0s-187
-37.71 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 1.0481 keV
n-0s187.jeff3.3 Threshold 1.3089 keV
Cross Section (10^-9 barns)
35
30
25
20
15
10
5
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
10^4
10^2
10^0
10^3
2 3 5 7
10^4
2 3 5 7
10^5
2 3 5 7
10^6
2 3 5 7
10^7
2 3 5 7
10^8
2
57
Incident Energy (eV)
76-0s-187

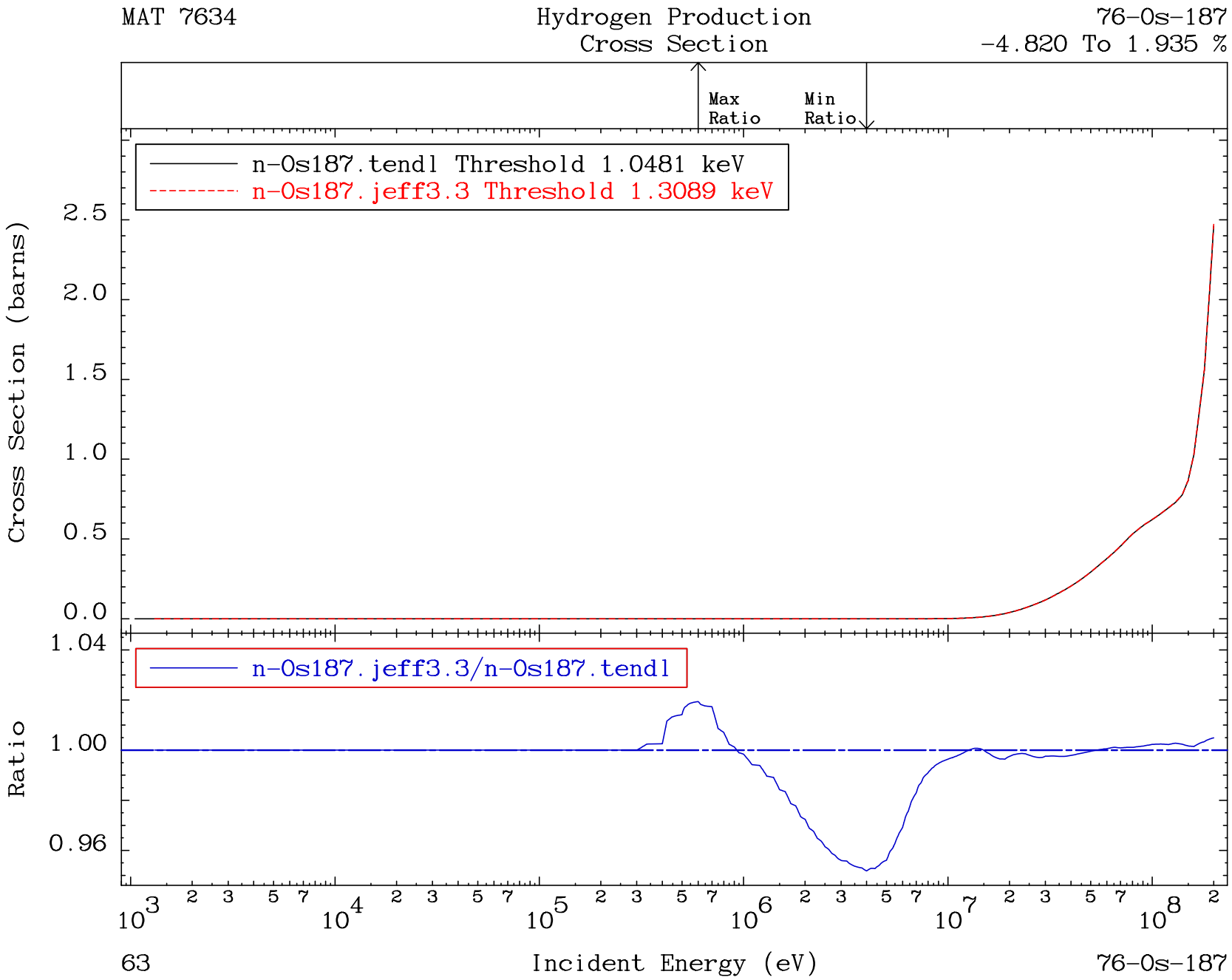

MAT 7634
(n,2p)
Cross Section
76-0s-187
-8.009 To 0.000 %
Min
Ratio
Max
Ratio
n-0s187.tendl Threshold 5.2452 MeV
n-0s187.jeff3.3 Threshold 5.2452 MeV
Cross Section (micro-barns)
0
2
4
6
8
10
12
n-0s187.jeff3.3/n-0s187.tendl
Ratio
0.92
0.96
1.00
6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
58
Incident Energy (eV)
76-0s-187

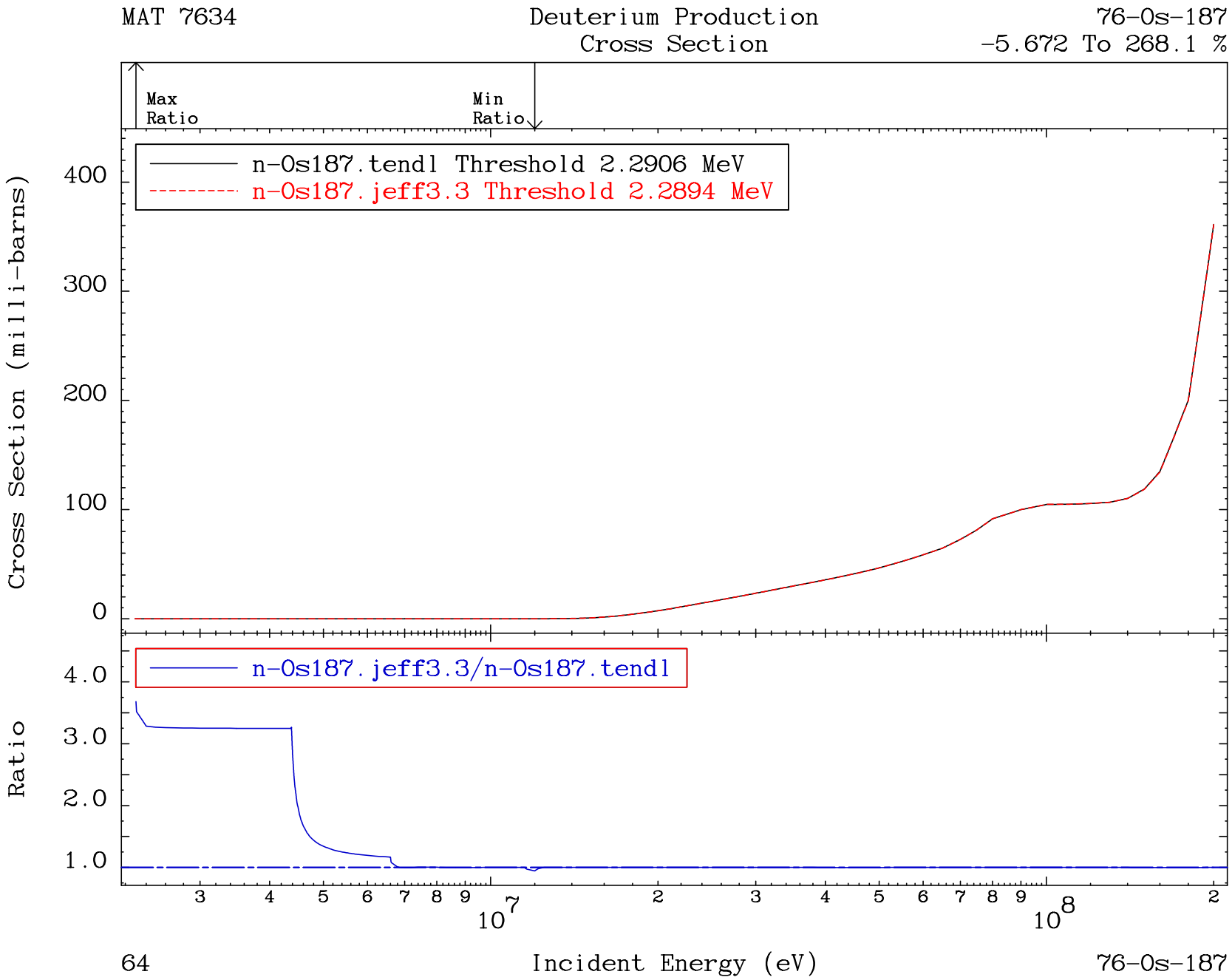

MAT 7634
(n,p) α
Cross Section
76-0s-187
-20.15 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 1.0481 keV
n-0s187.jeff3.3 Threshold 1.3089 keV
Cross Section ($10^{-9}$ barns)
120
100
80
60
40
20
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
$10^2$
$10^1$
$10^0$
$10^3$ 2 3 5 7 $10^4$ 2 3 5 7 $10^5$ 2 3 5 7 $10^6$ 2 3 5 7 $10^7$ 2 3 5 7 $10^8$ 2
59
Incident Energy (eV)
76-0s-187

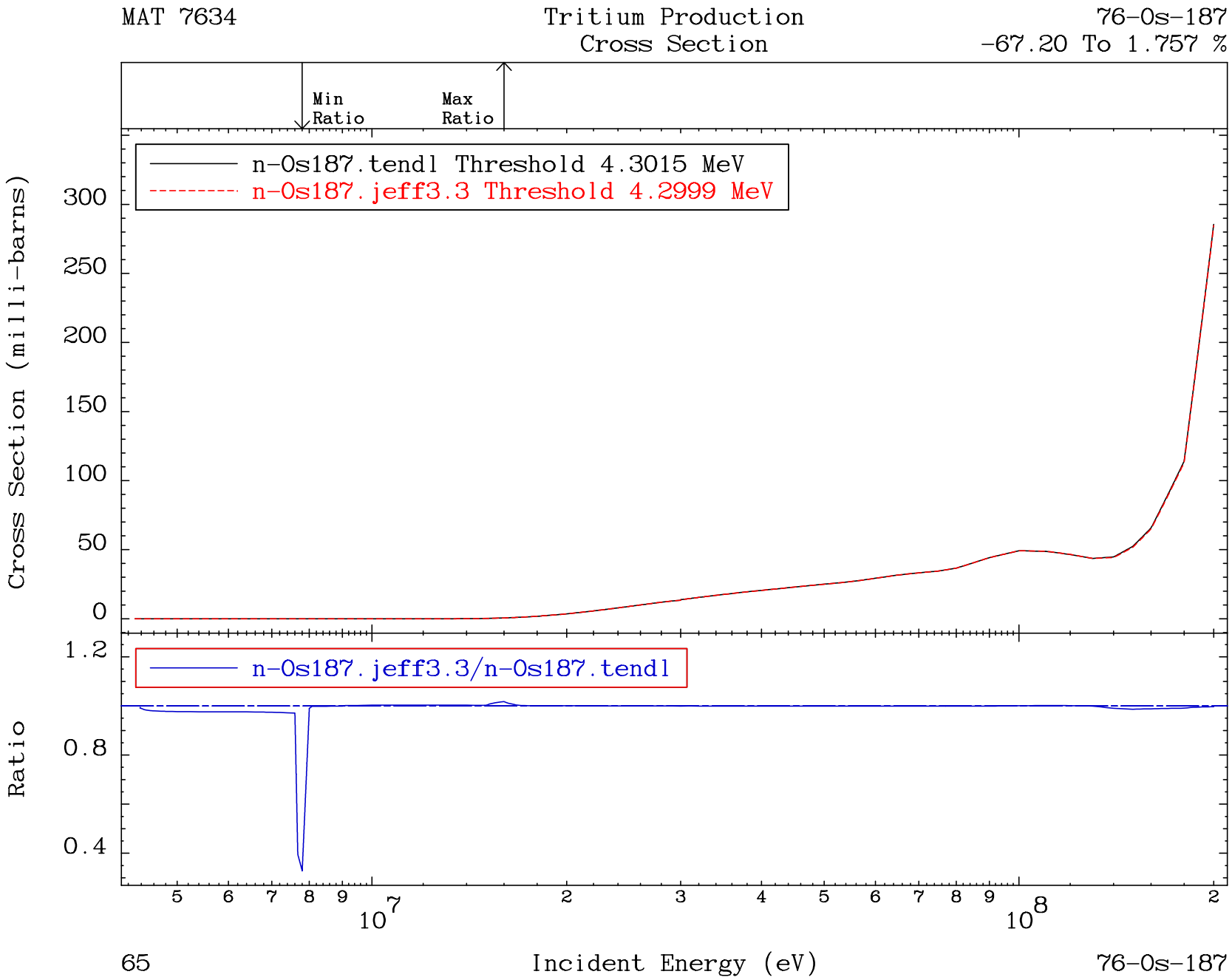

MAT 7634
(n,p) d
Cross Section
76-0s-187
-5.897 To 0.000 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 10.240 MeV
n-0s187.jeff3.3 Threshold 10.240 MeV
Cross Section ($10^{-9}$ barns)
n-0s187.jeff3.3/n-0s187.tendl
Ratio
Incident Energy (eV)
60
76-0s-187

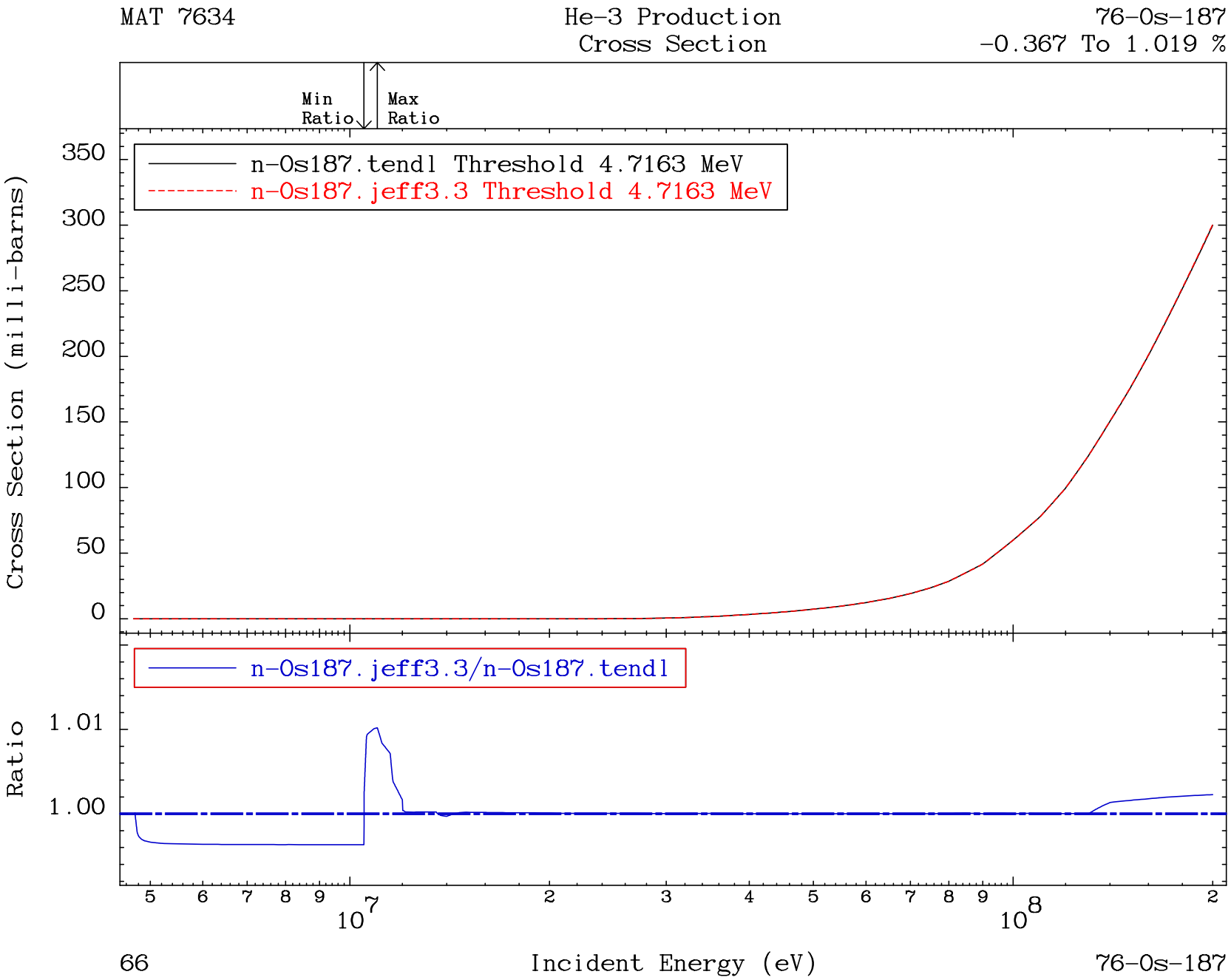

MAT 7634
(n,p) t
Cross Section
76-0s-187
-10.78 To 0.000 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 9.7332 MeV
n-0s187.jeff3.3 Threshold 9.7332 MeV
Cross Section (10^-9 barns)
n-0s187.jeff3.3/n-0s187.tendl
Ratio
Incident Energy (eV)
61
76-0s-187

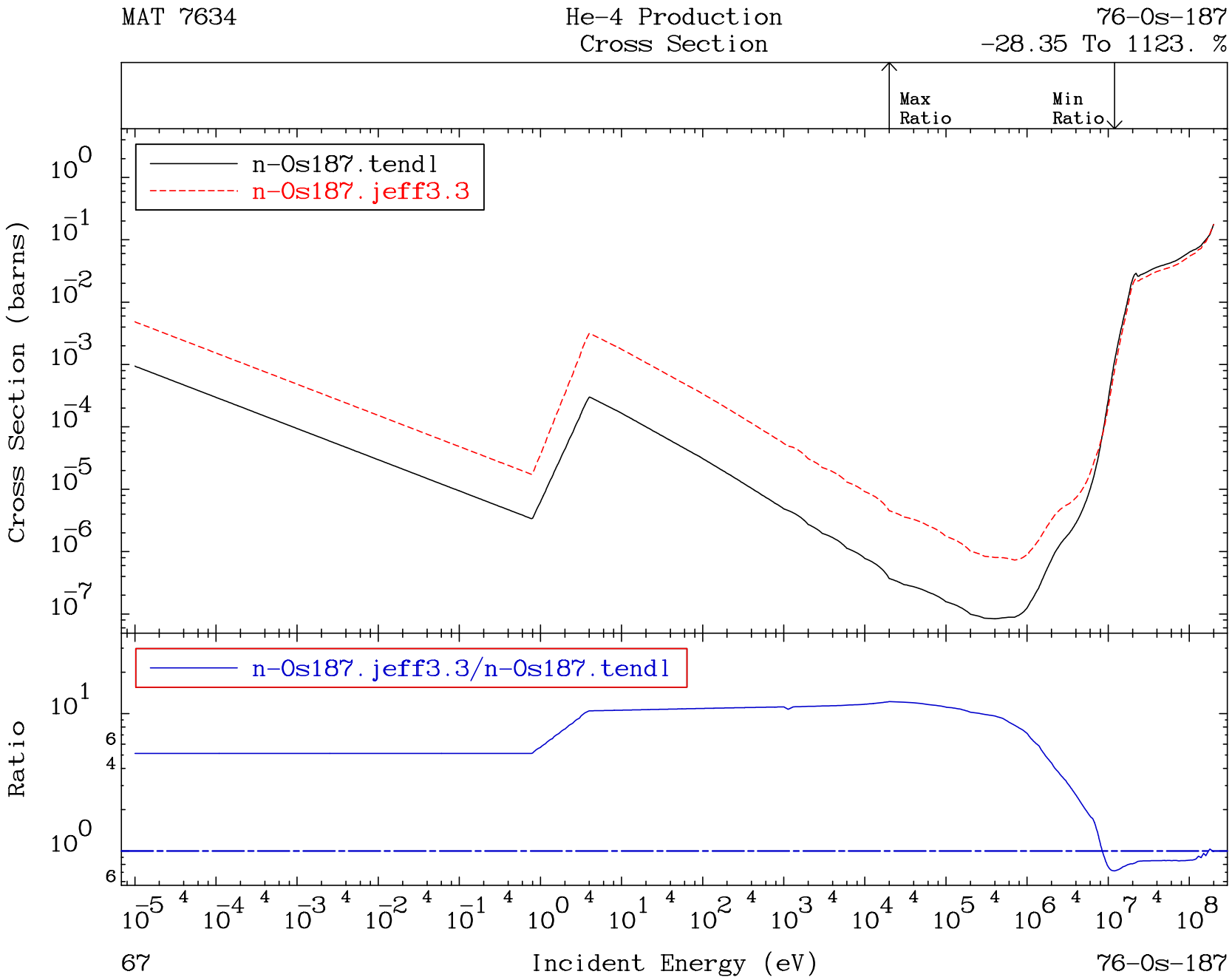

MAT 7634
(n,d) α
Cross Section
76-0s-187
0.000 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 2.2906 MeV
n-0s187.jeff3.3 Threshold 2.2894 MeV
Cross Section ($10^{-9}$ barns)
2.0
1.5
1.0
0.5
0.0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
$10^3$
$10^2$
$10^1$
$10^0$
3 4 5 6 7 8 9 $10^7$ 2 3 4 5 6 7 8 9 $10^8$ 2
62
Incident Energy (eV)
76-0s-187

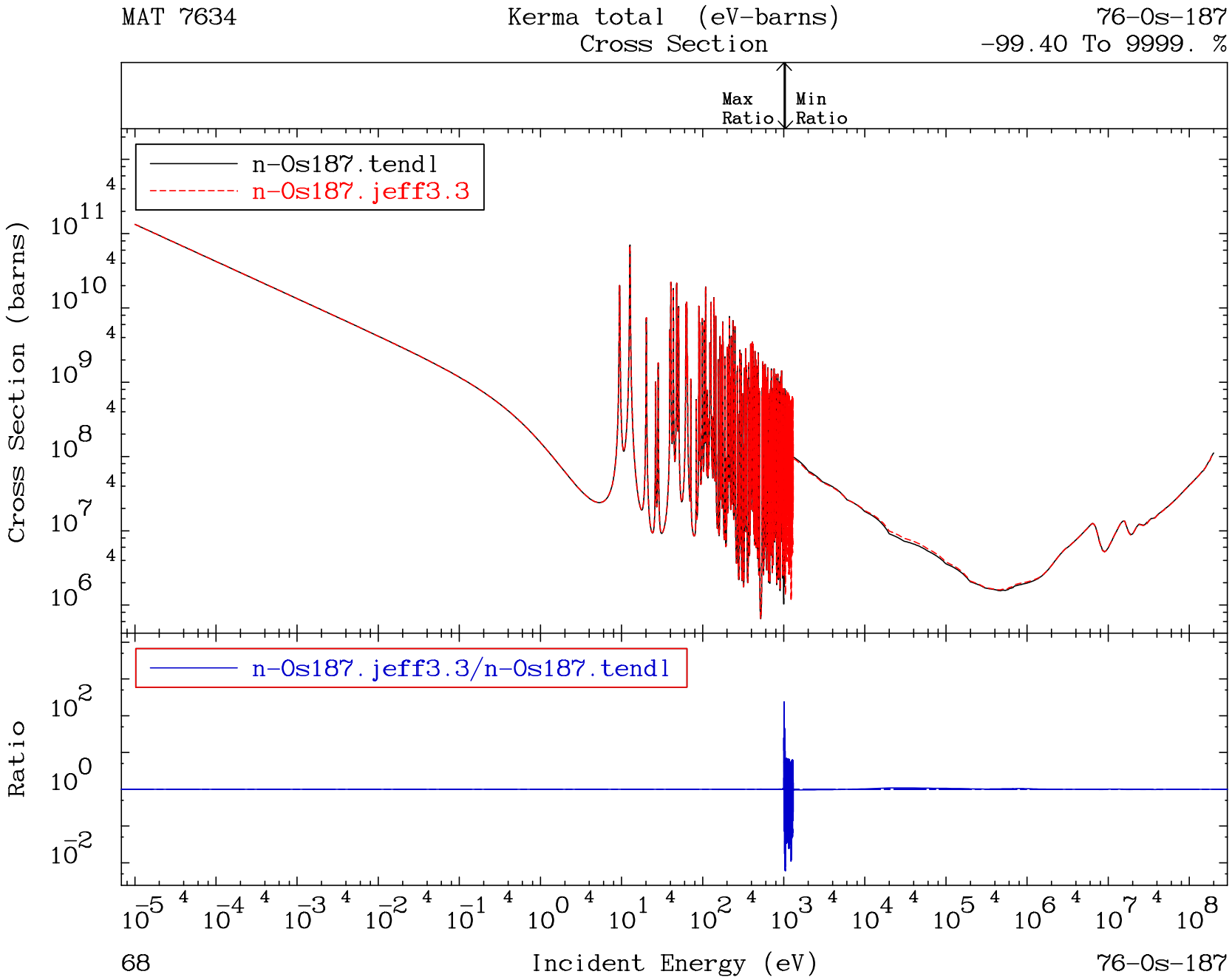

MAT 7634
Hydrogen Production
Cross Section
76-0s-187
-4.820 To 1.935 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 1.0481 keV
n-0s187.jeff3.3 Threshold 1.3089 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
1.04
1.00
0.96
Ratio
n-0s187.jeff3.3/n-0s187.tendl
10^3
10^4
10^5
10^6
10^7
10^8
63
Incident Energy (eV)
76-0s-187

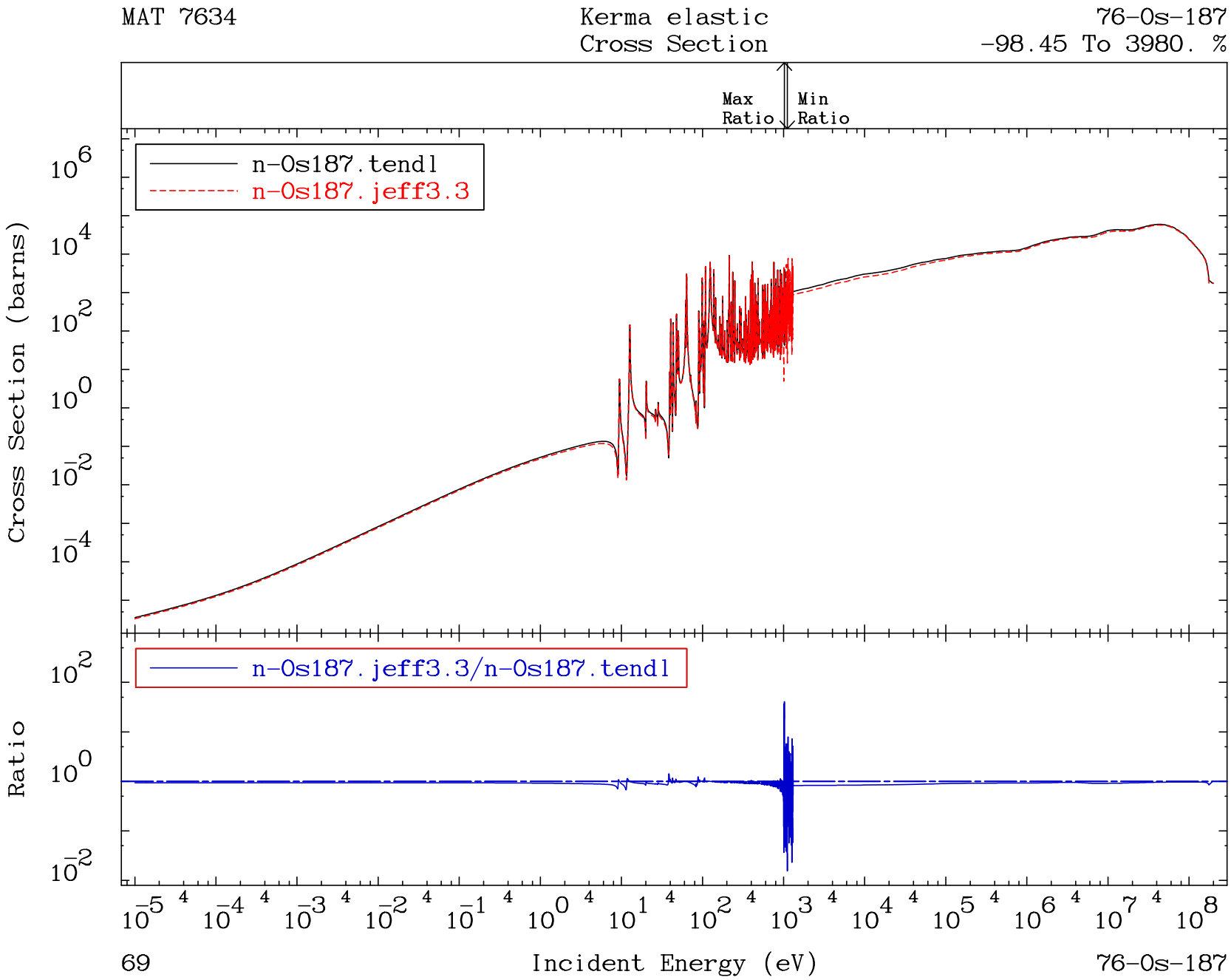

MAT 7634
Deuterium Production
Cross Section
76-0s-187
-5.672 To 268.1 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 2.2906 MeV
n-0s187.jeff3.3 Threshold 2.2894 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
4.0
3.0
2.0
1.0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
64
Incident Energy (eV)
76-0s-187

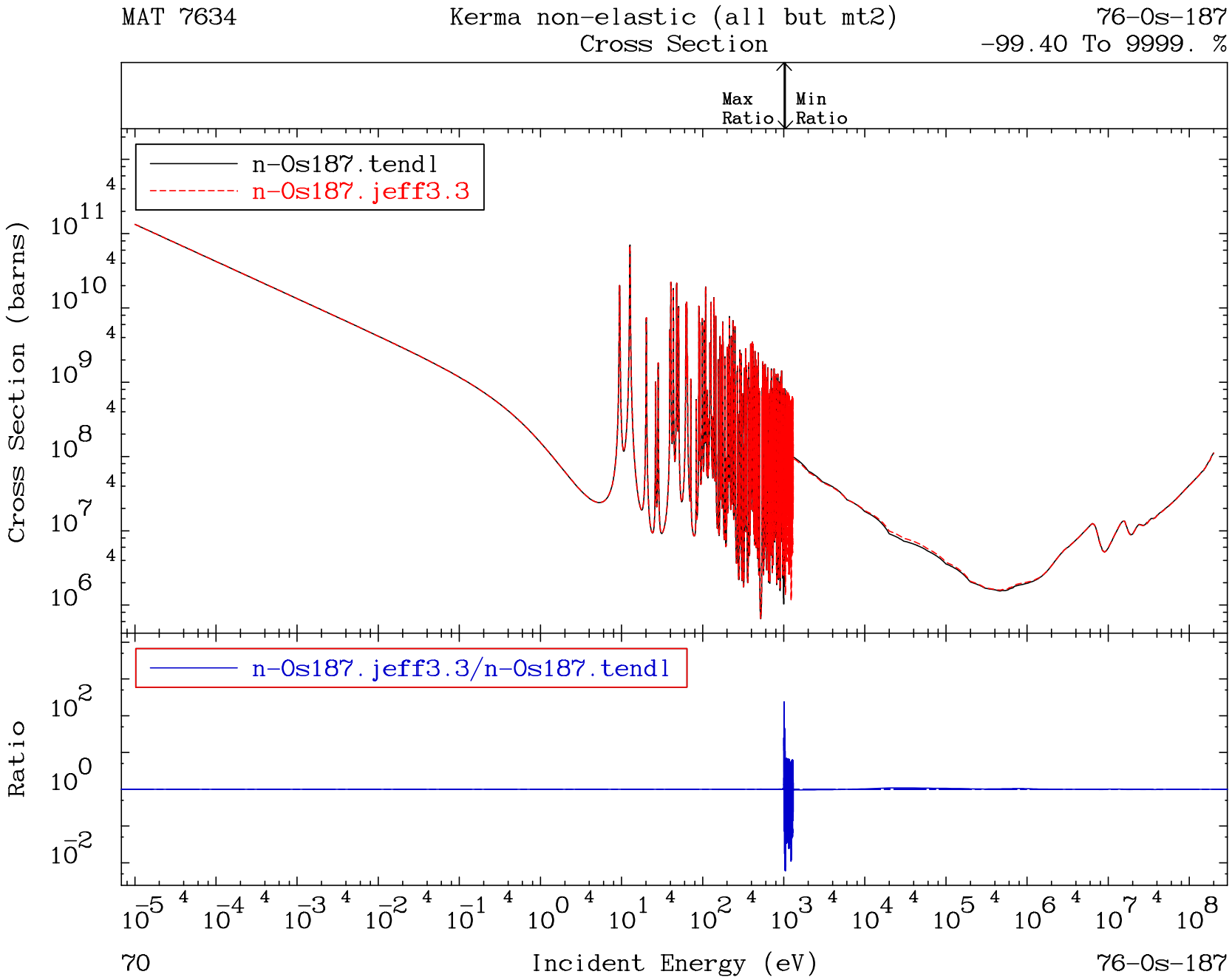

MAT 7634
Tritium Production
Cross Section
76-0s-187
-67.20 To 1.757 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 4.3015 MeV
n-0s187.jeff3.3 Threshold 4.2999 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.2
0.8
0.4
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
65
Incident Energy (eV)
76-0s-187

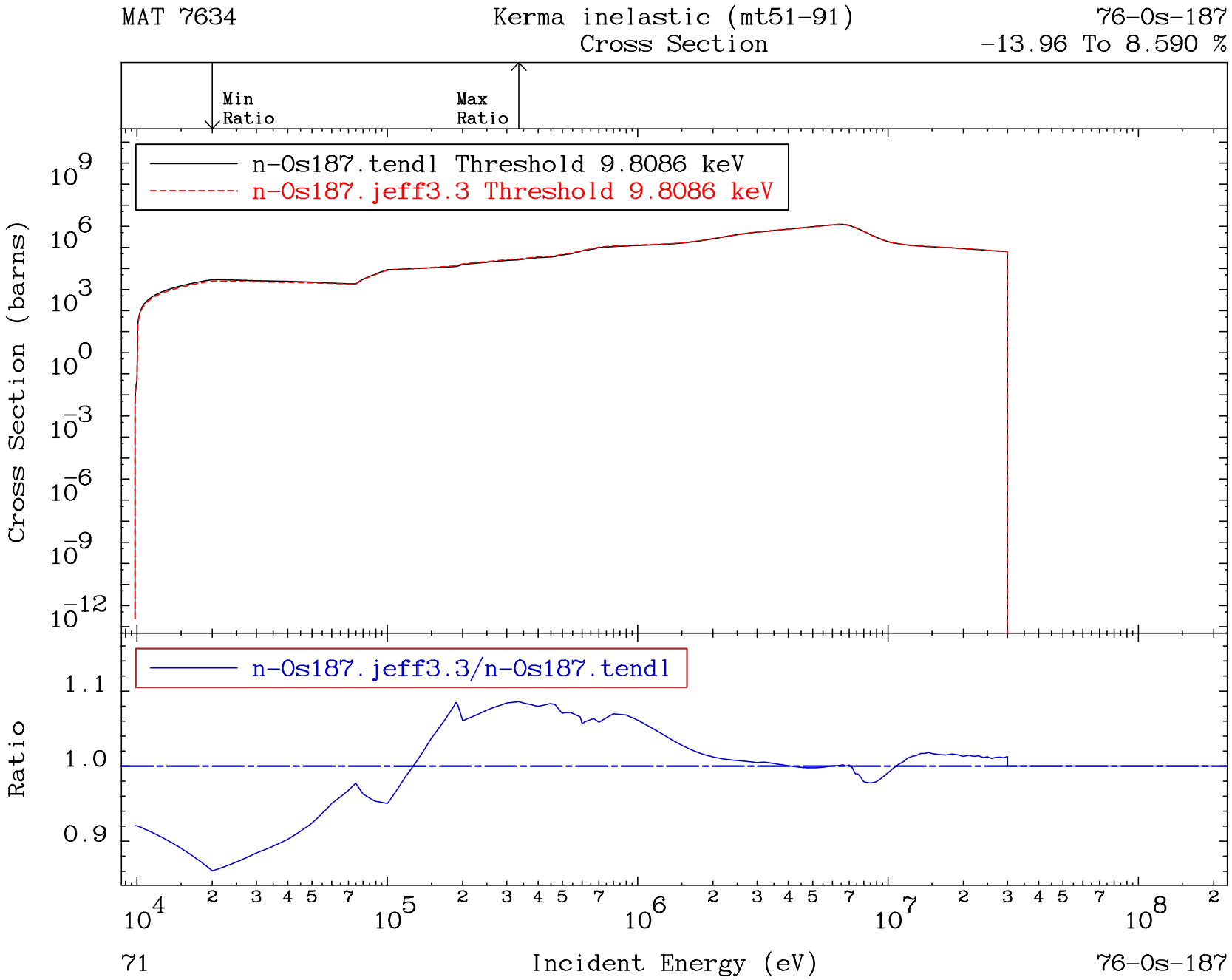

MAT 7634
He-3 Production
Cross Section
76-0s-187
-0.367 To 1.019 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 4.7163 MeV
n-0s187.jeff3.3 Threshold 4.7163 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.01
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
66
Incident Energy (eV)
76-0s-187

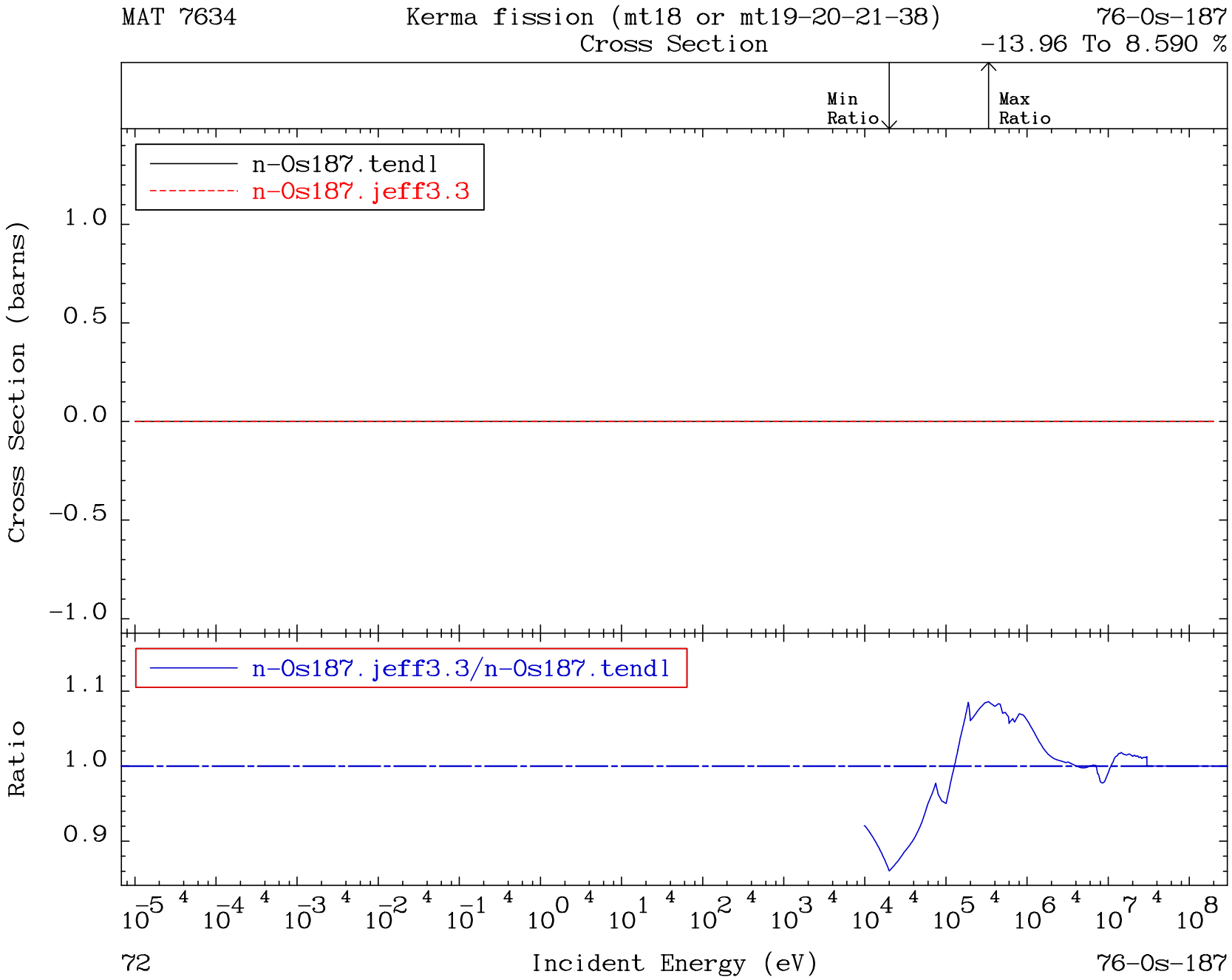

MAT 7634
He-4 Production
Cross Section
76-0s-187
-28.35 To 1123. %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.jeff3.3
Cross Section (barns)
n-0s187.jeff3.3/n-0s187.tendl
Ratio
Incident Energy (eV)
67
76-0s-187

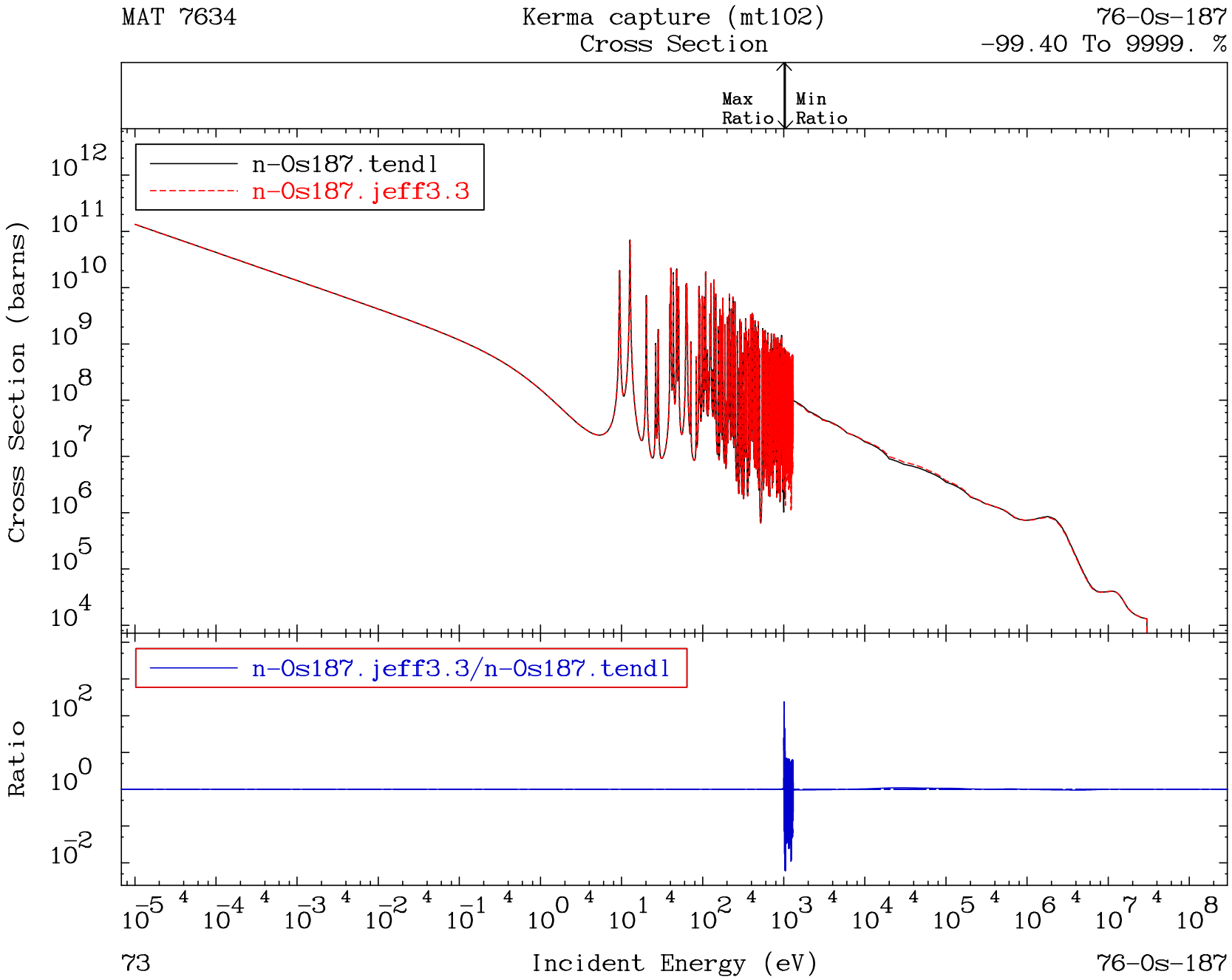

MAT 7634
Kerma total (eV-barns)
Cross Section
76-0s-187
-99.40 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.jeff3.3
Cross Section (barns)
n-0s187.jeff3.3/n-0s187.tendl
Ratio
Incident Energy (eV)
68
76-0s-187

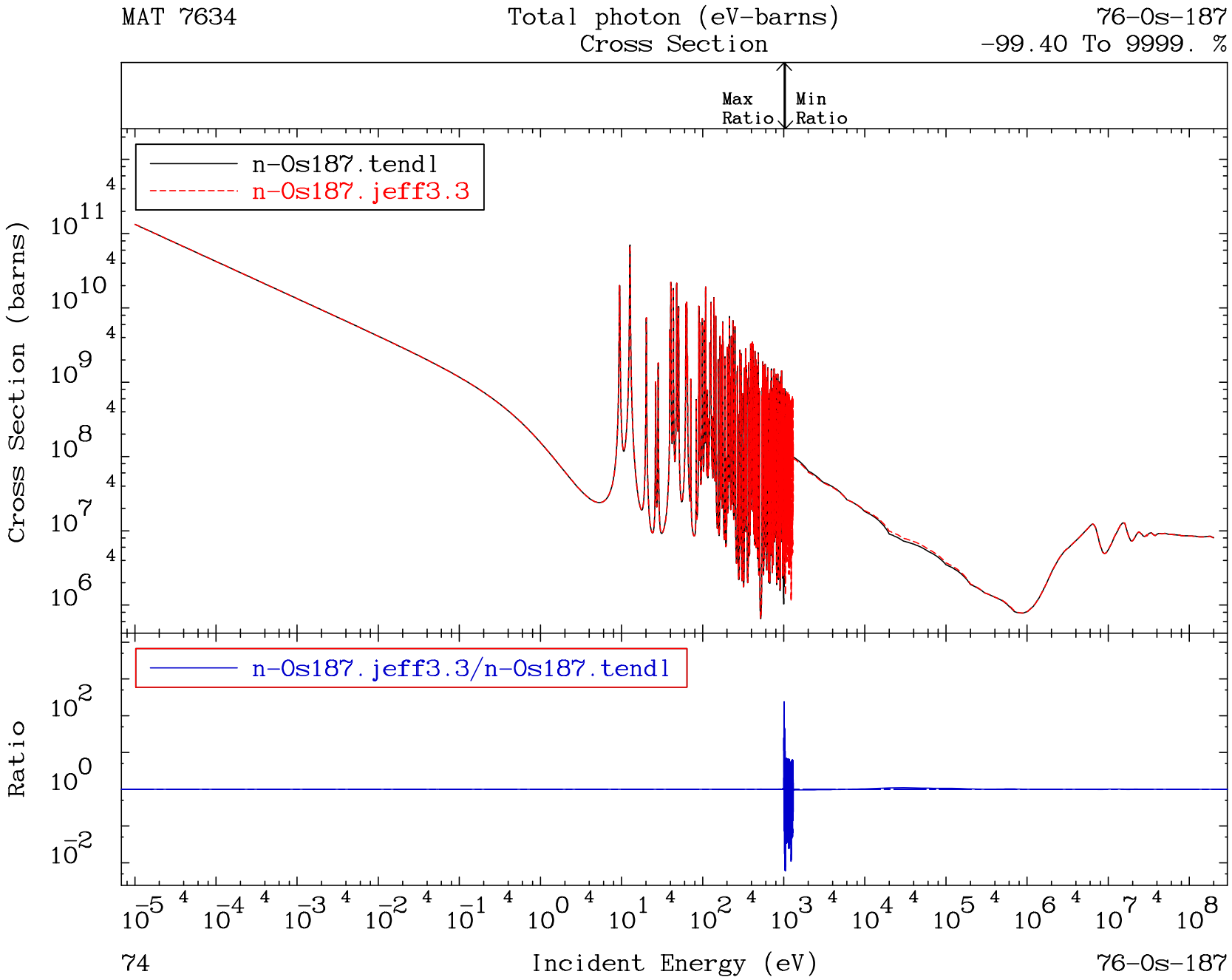

MAT 7634
Kerma elastic
Cross Section
76-0s-187
-98.45 To 3980. %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.jeff3.3
Cross Section (barns)
n-0s187.jeff3.3/n-0s187.tendl
Ratio
Incident Energy (eV)
69
76-0s-187

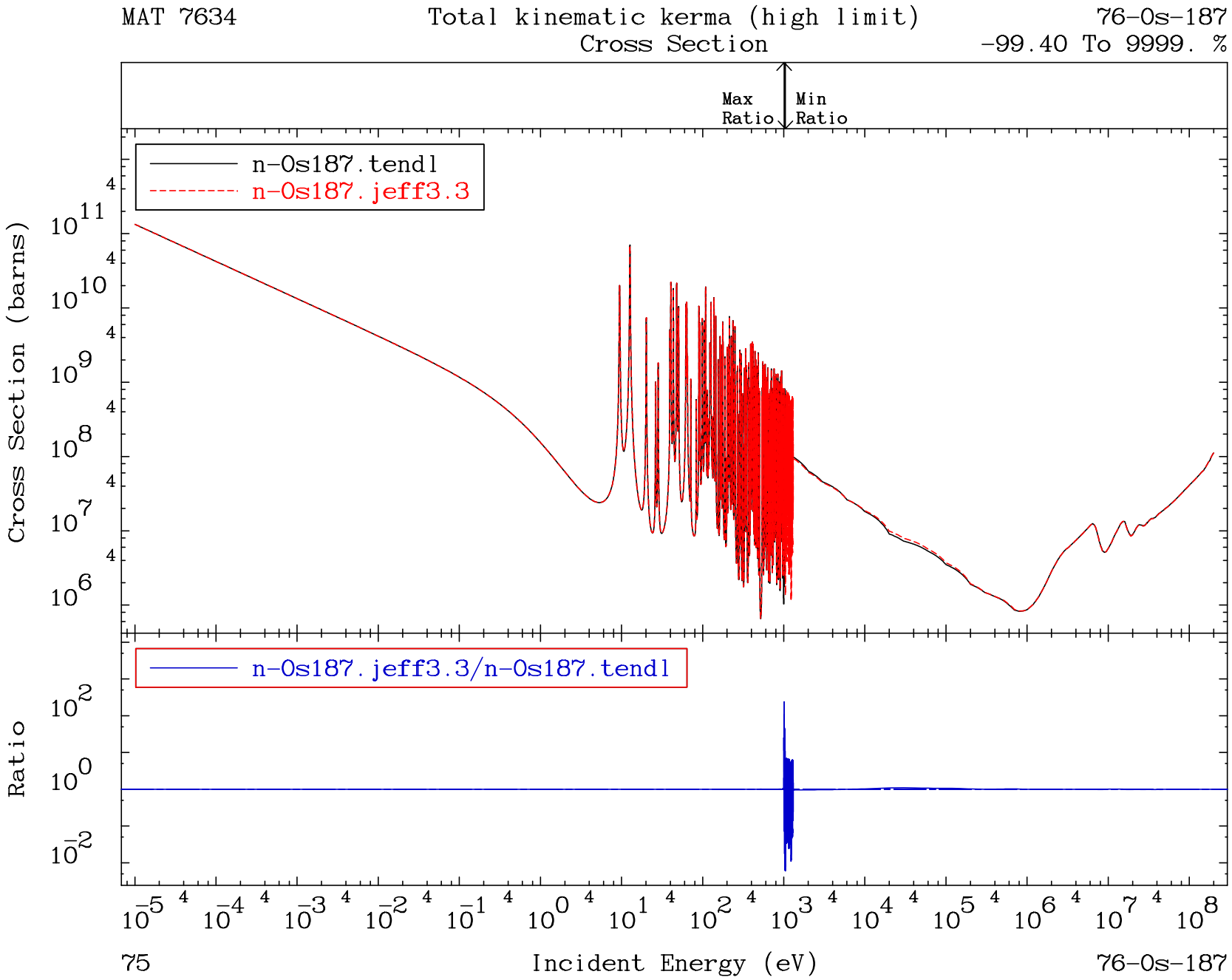

MAT 7634
Kerma non-elastic (all but mt2)
Cross Section
76-0s-187
-99.40 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.jeff3.3
Cross Section (barns)
n-0s187.jeff3.3/n-0s187.tendl
Ratio
Incident Energy (eV)
70
76-0s-187

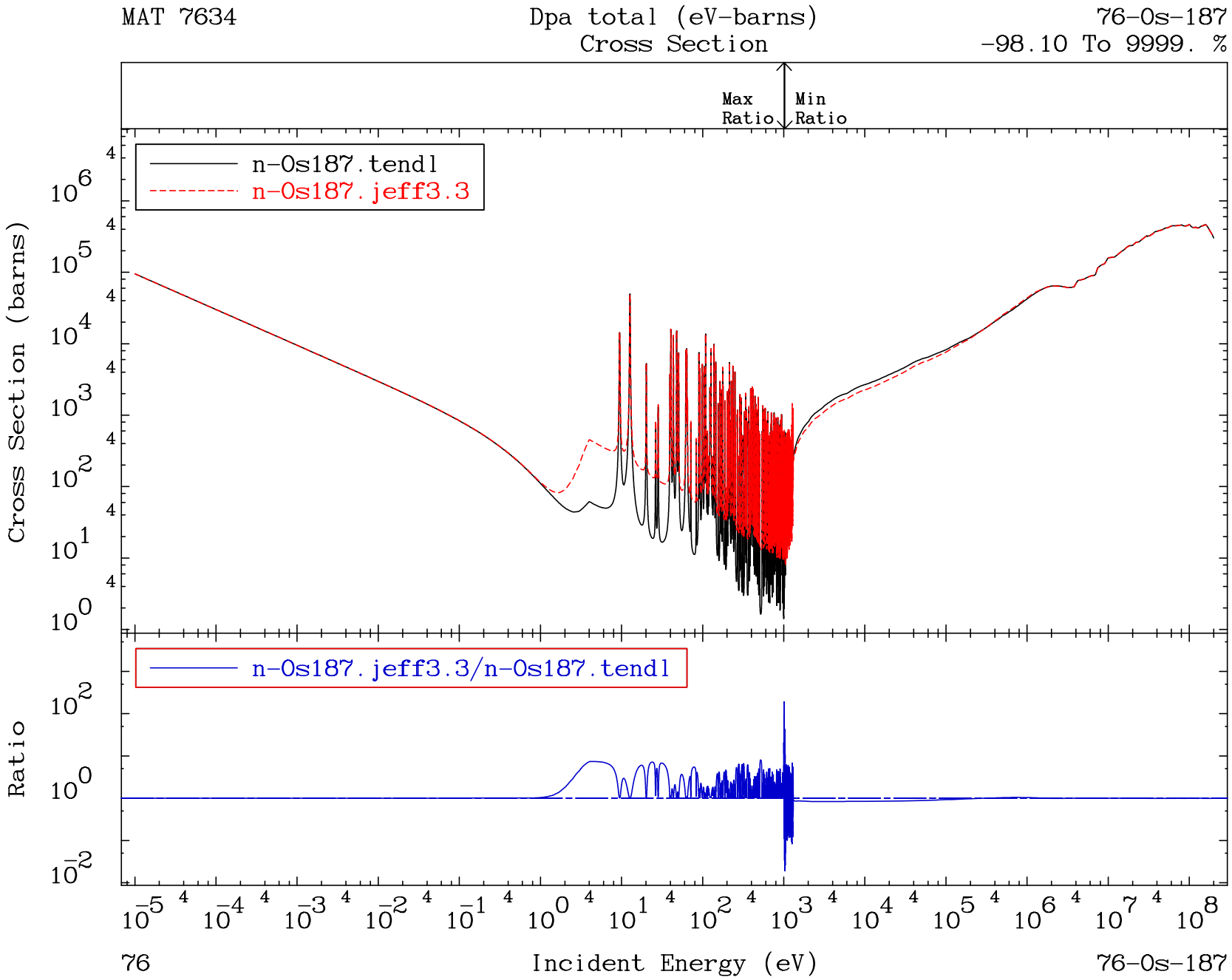

MAT 7634
Kerma inelastic (mt51-91)
Cross Section
76-0s-187
-13.96 To 8.590 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 9.8086 keV
n-0s187.jeff3.3 Threshold 9.8086 keV
Cross Section (barns)
n-0s187.jeff3.3/n-0s187.tendl
Ratio
Incident Energy (eV)
71
76-0s-187

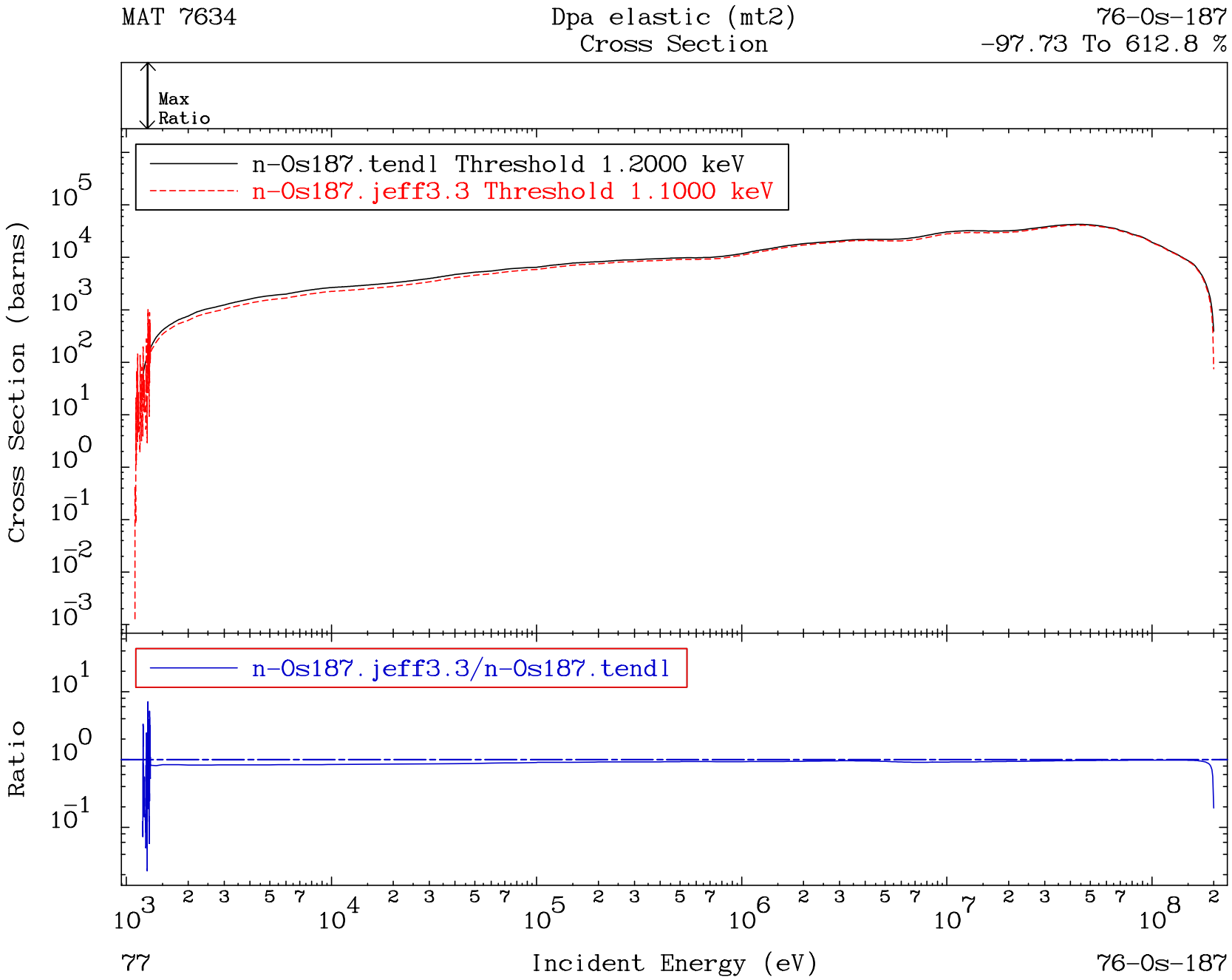

MAT 7634
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
76-0s-187
-13.96 To 8.590 %
Min Ratio
Max Ratio
n-0s187.tendl
n-0s187.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.1
1.0
0.9
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
72
Incident Energy (eV)
76-0s-187

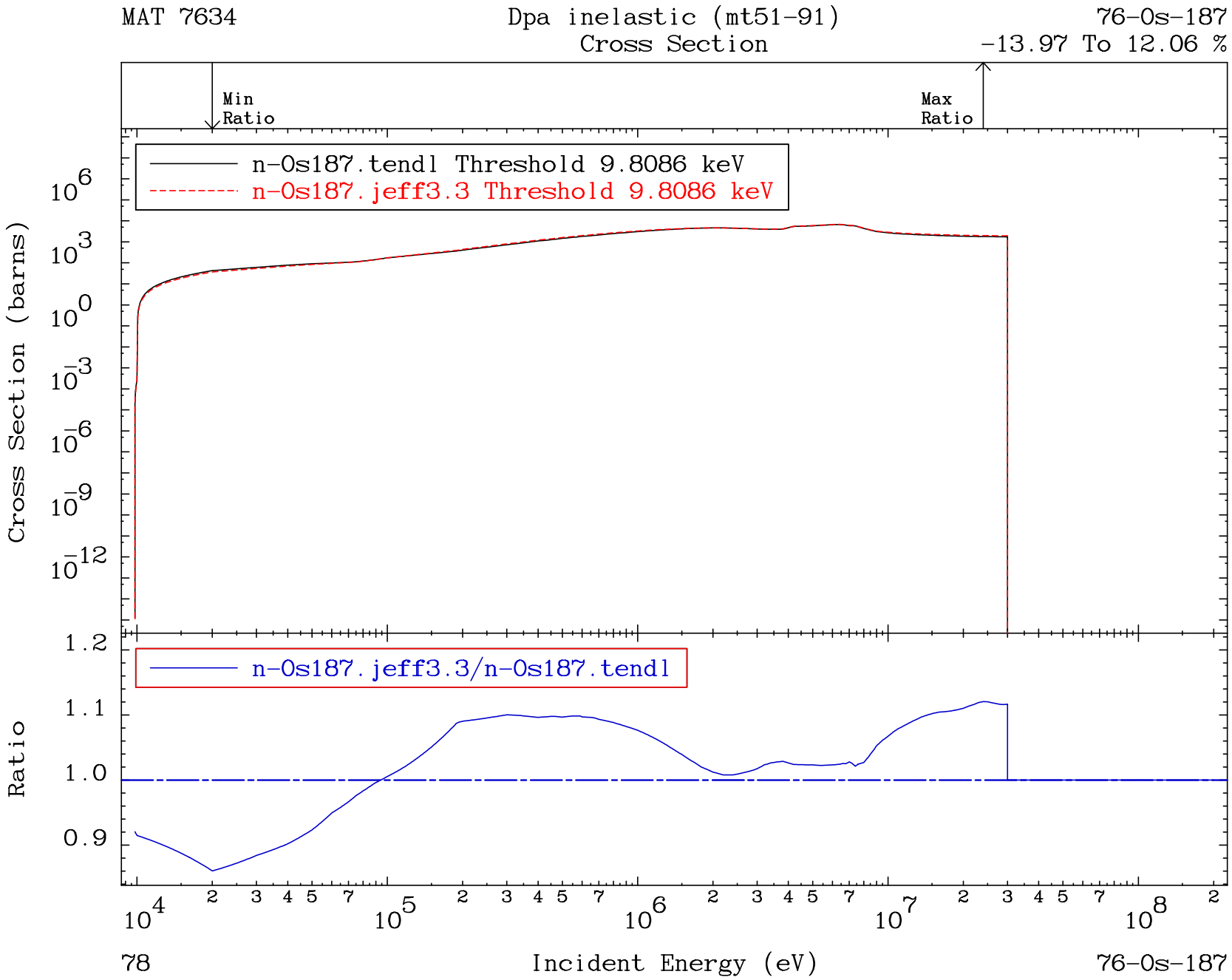

MAT 7634
Kerma capture (mt102)
Cross Section
76-0s-187
-99.40 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.jeff3.3
Cross Section (barns)
n-0s187.jeff3.3/n-0s187.tendl
Ratio
Incident Energy (eV)
73
76-0s-187

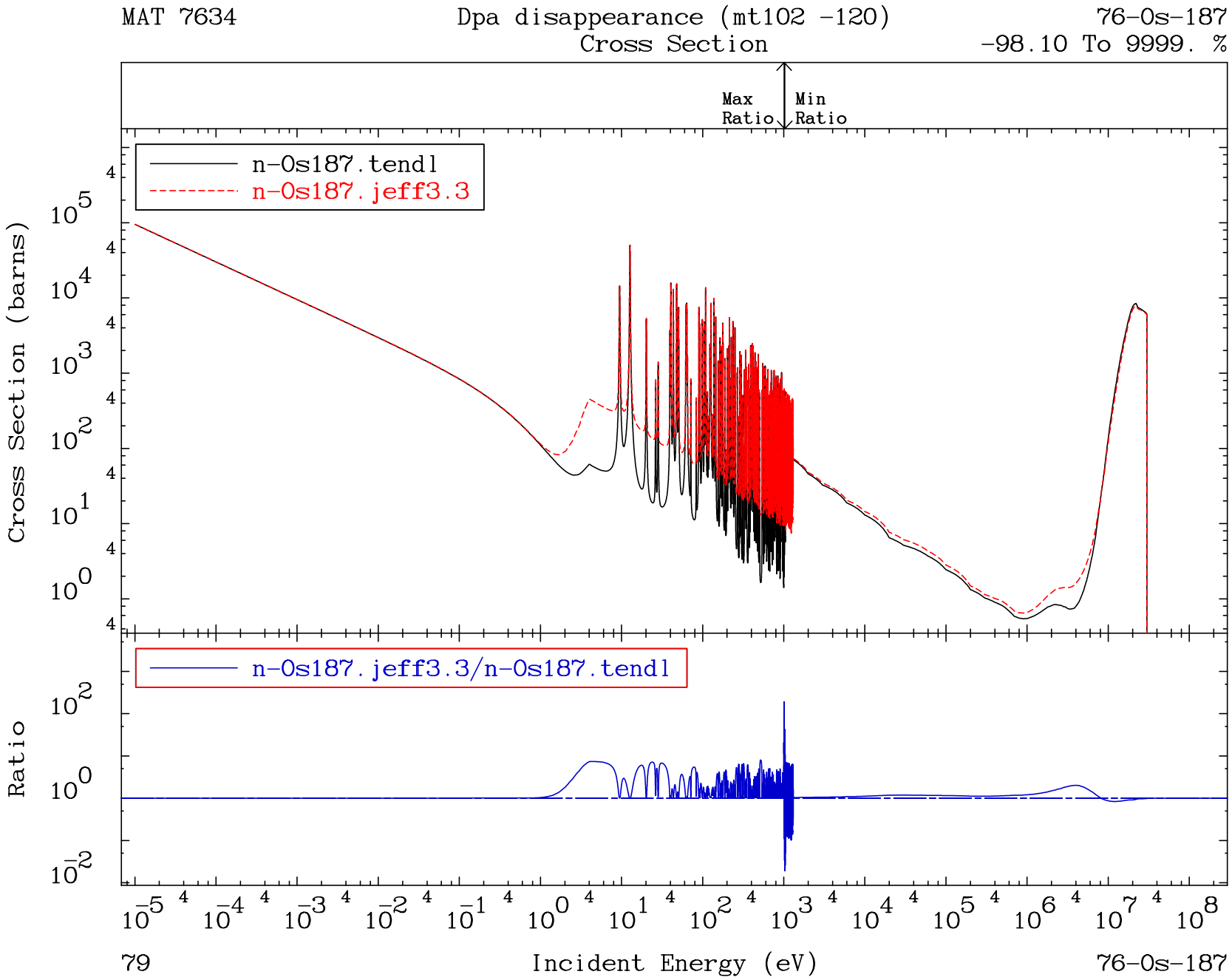

MAT 7634
Total photon (eV-barns)
Cross Section
76-0s-187
-99.40 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.jeff3.3
Cross Section (barns)
n-0s187.jeff3.3/n-0s187.tendl
Ratio
Incident Energy (eV)
74
76-0s-187

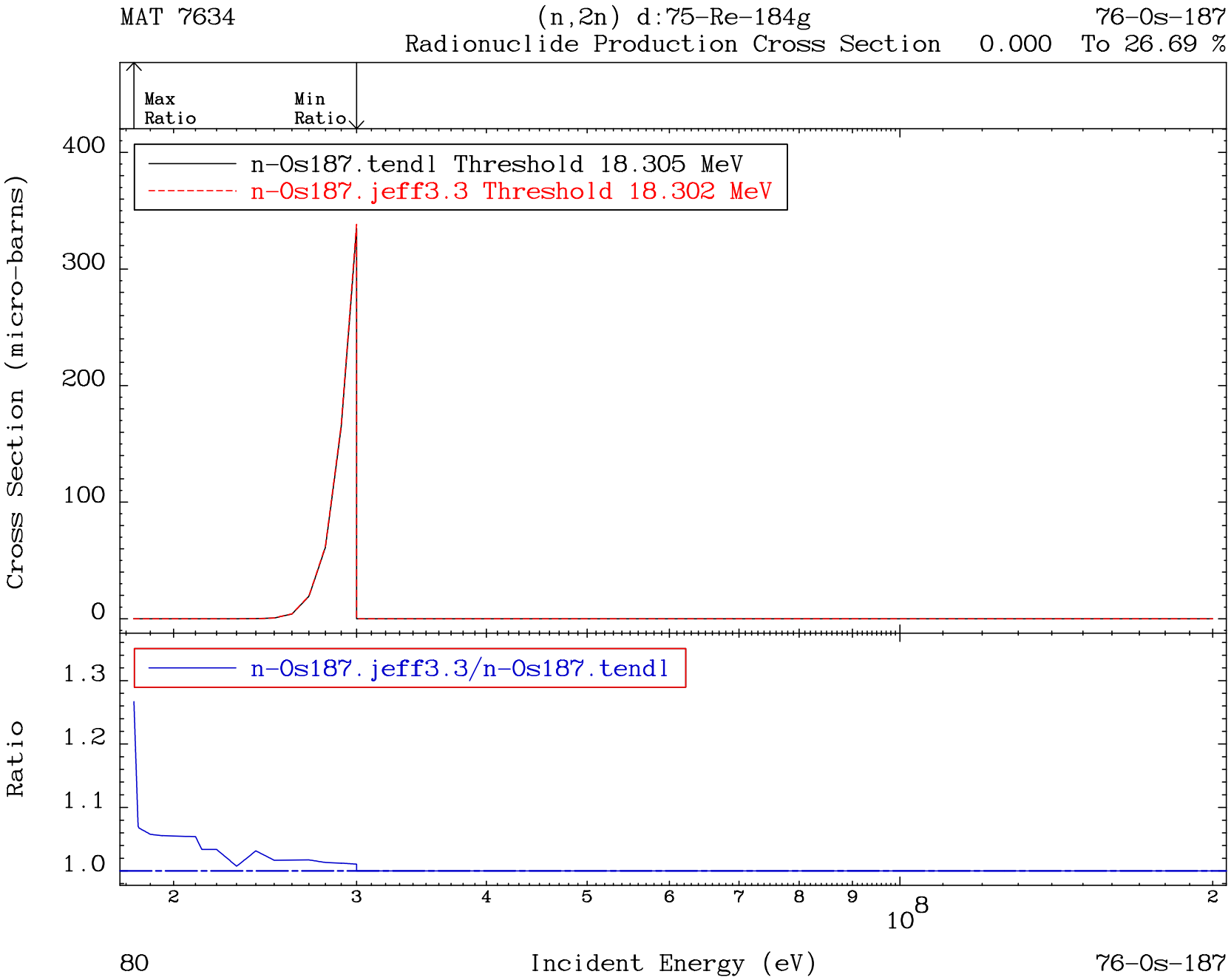

MAT 7634
Total kinematic kerma (high limit)
Cross Section
76-0s-187
-99.40 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.jeff3.3
Cross Section (barns)
n-0s187.jeff3.3/n-0s187.tendl
Ratio
Incident Energy (eV)
75
76-0s-187

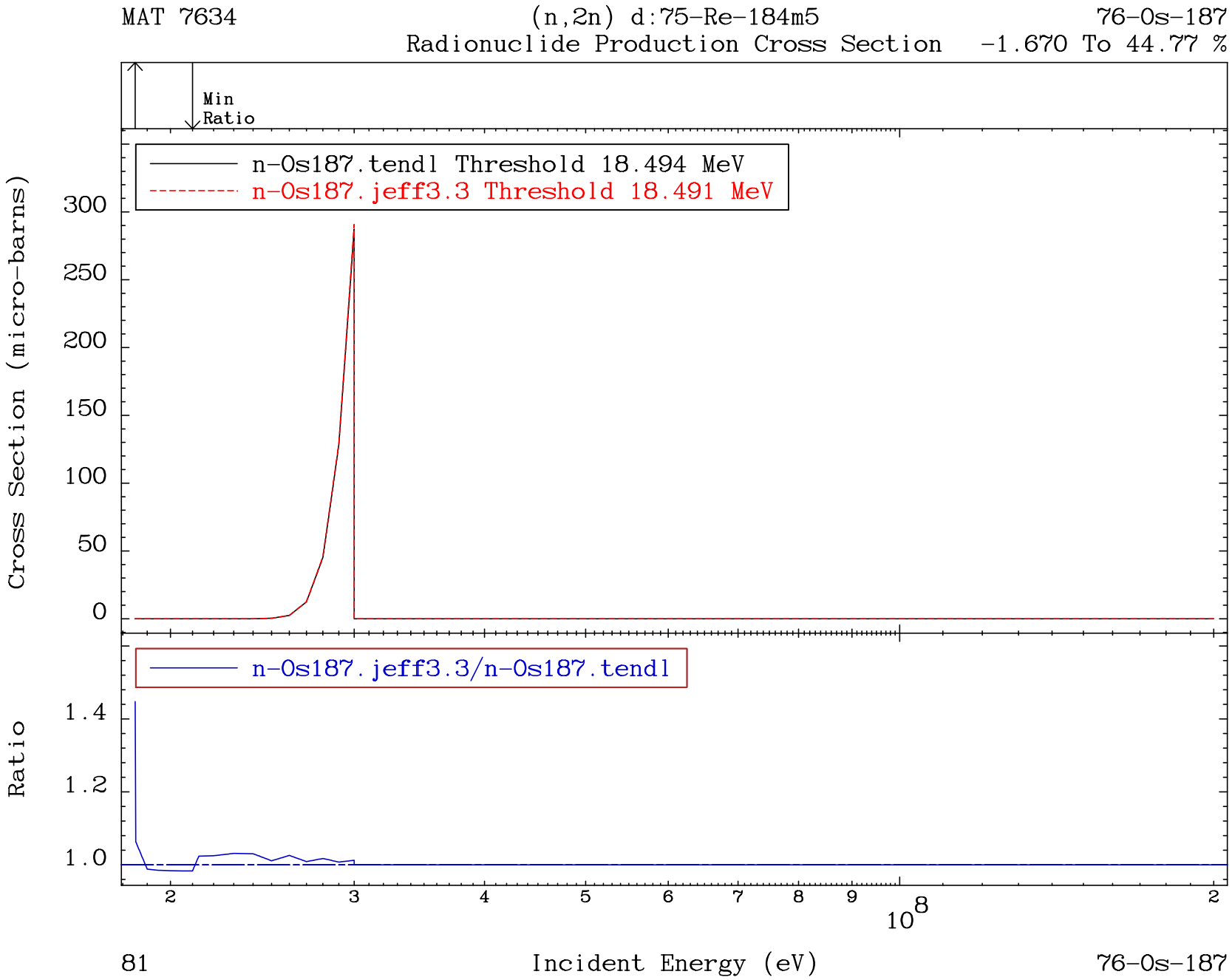

MAT 7634
Dpa total (eV-barns)
Cross Section
76-Os-187
-98.10 To 9999. %
Max Ratio
Min Ratio
n-Os187.tendl
n-Os187.jeff3.3
Cross Section (barns)
n-Os187.jeff3.3/n-Os187.tendl
Ratio
Incident Energy (eV)
76
76-Os-187

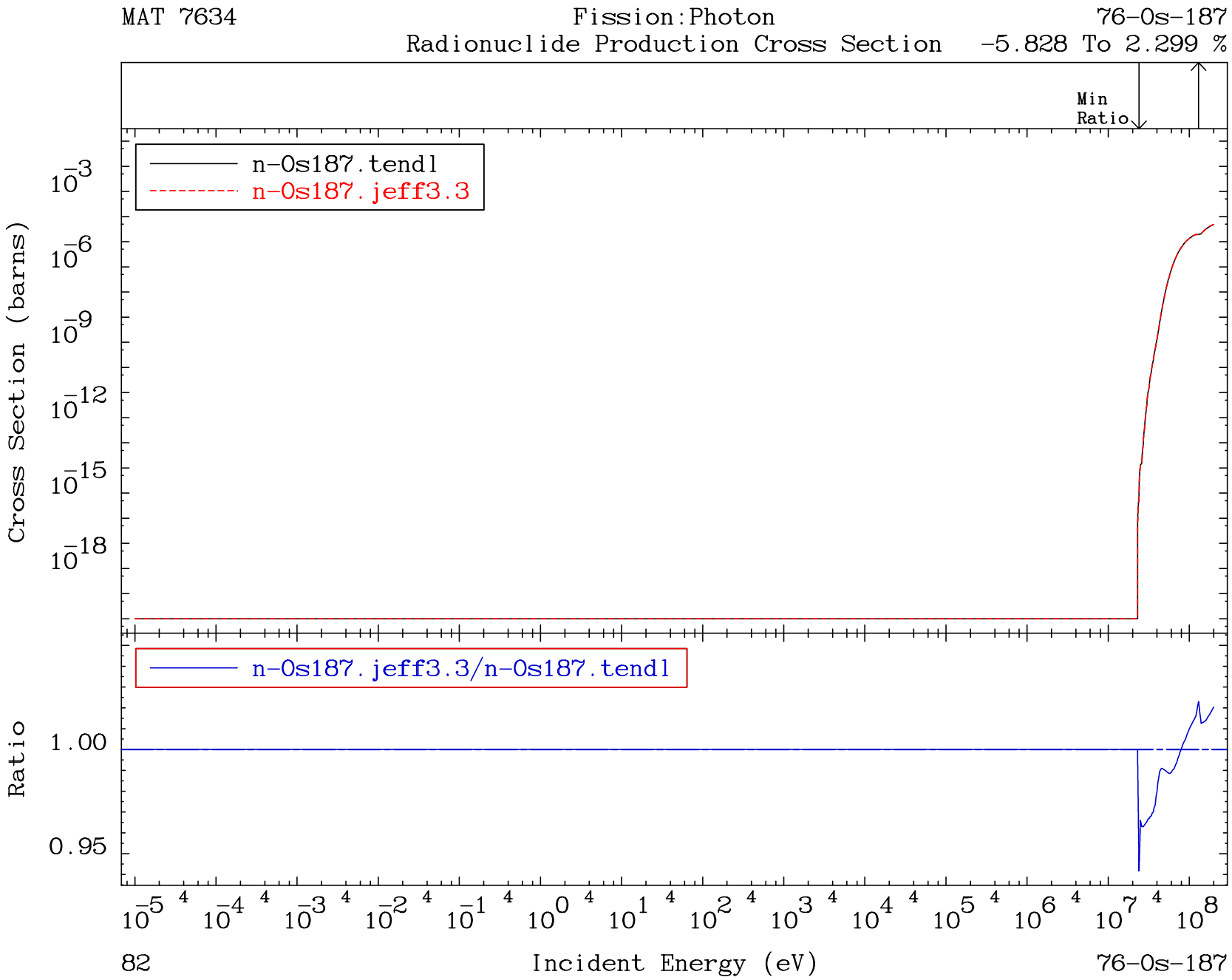

MAT 7634
Dpa elastic (mt2)
Cross Section
76-0s-187
-97.73 To 612.8 %
Max
Ratio
n-0s187.tendl Threshold 1.2000 keV
n-0s187.jeff3.3 Threshold 1.1000 keV
Cross Section (barns)
n-0s187.jeff3.3/n-0s187.tendl
Ratio
Incident Energy (eV)
77
76-0s-187

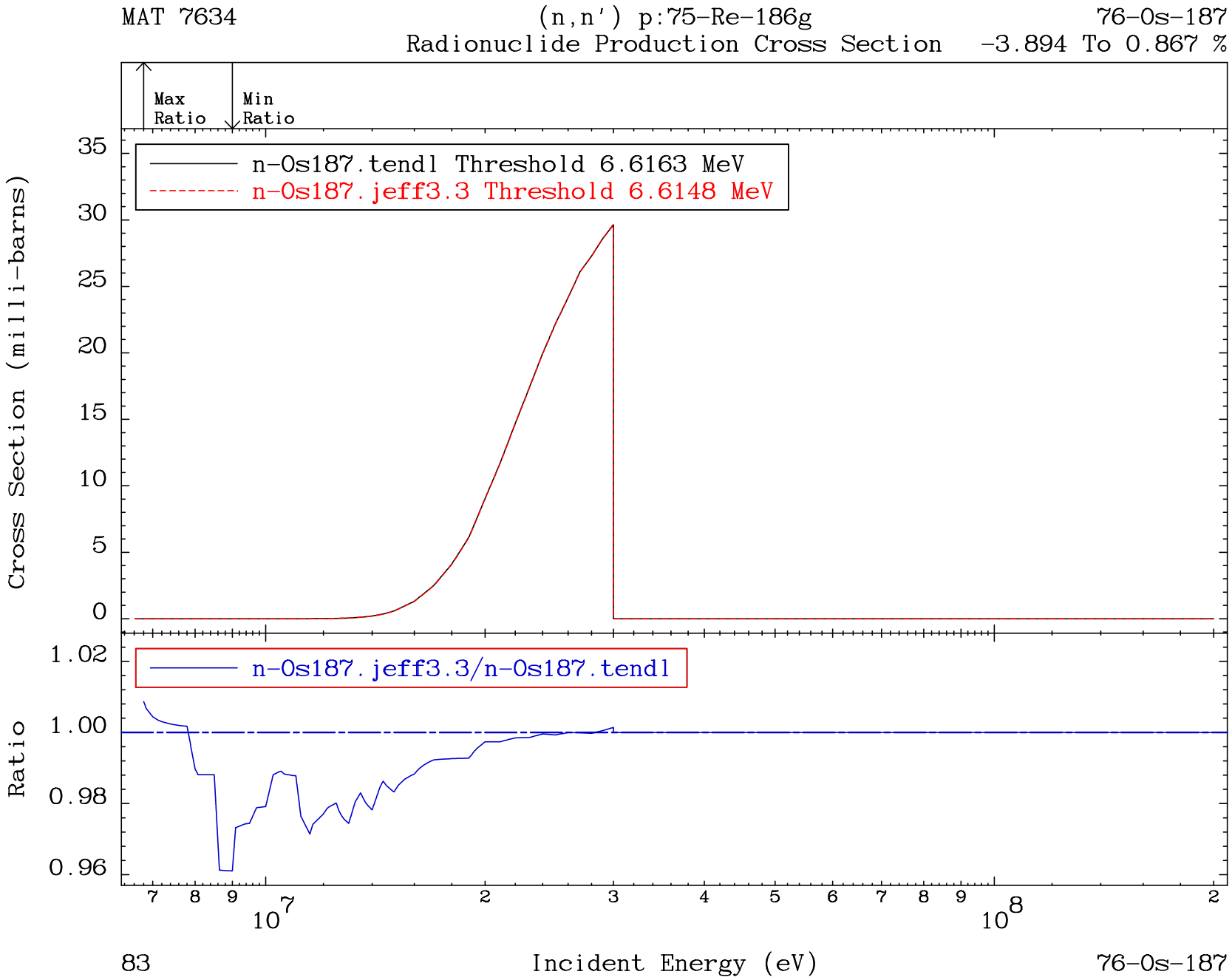

MAT 7634
Dpa inelastic (mt51-91)
Cross Section
76-Os-187
-13.97 To 12.06 %
Min Ratio
Max Ratio
n-Os187.tendl Threshold 9.8086 keV
n-Os187.jeff3.3 Threshold 9.8086 keV
Cross Section (barns)
n-Os187.jeff3.3/n-Os187.tendl
Ratio
Incident Energy (eV)
78
76-Os-187

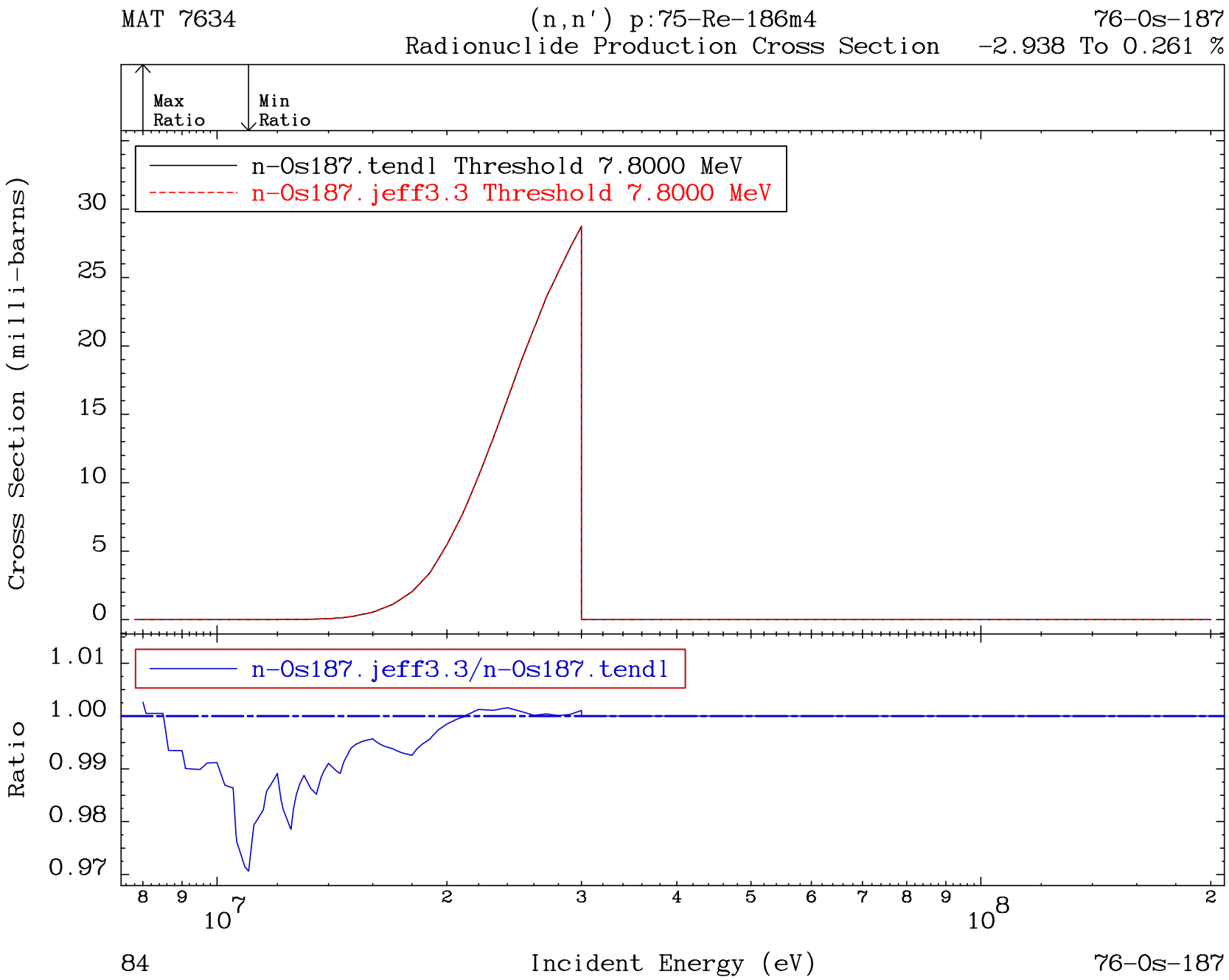

MAT 7634
Dpa disappearance (mt102 -120)
Cross Section
76-0s-187
-98.10 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl
n-0s187.jeff3.3
Cross Section (barns)
n-0s187.jeff3.3/n-0s187.tendl
Ratio
Incident Energy (eV)
79
76-0s-187

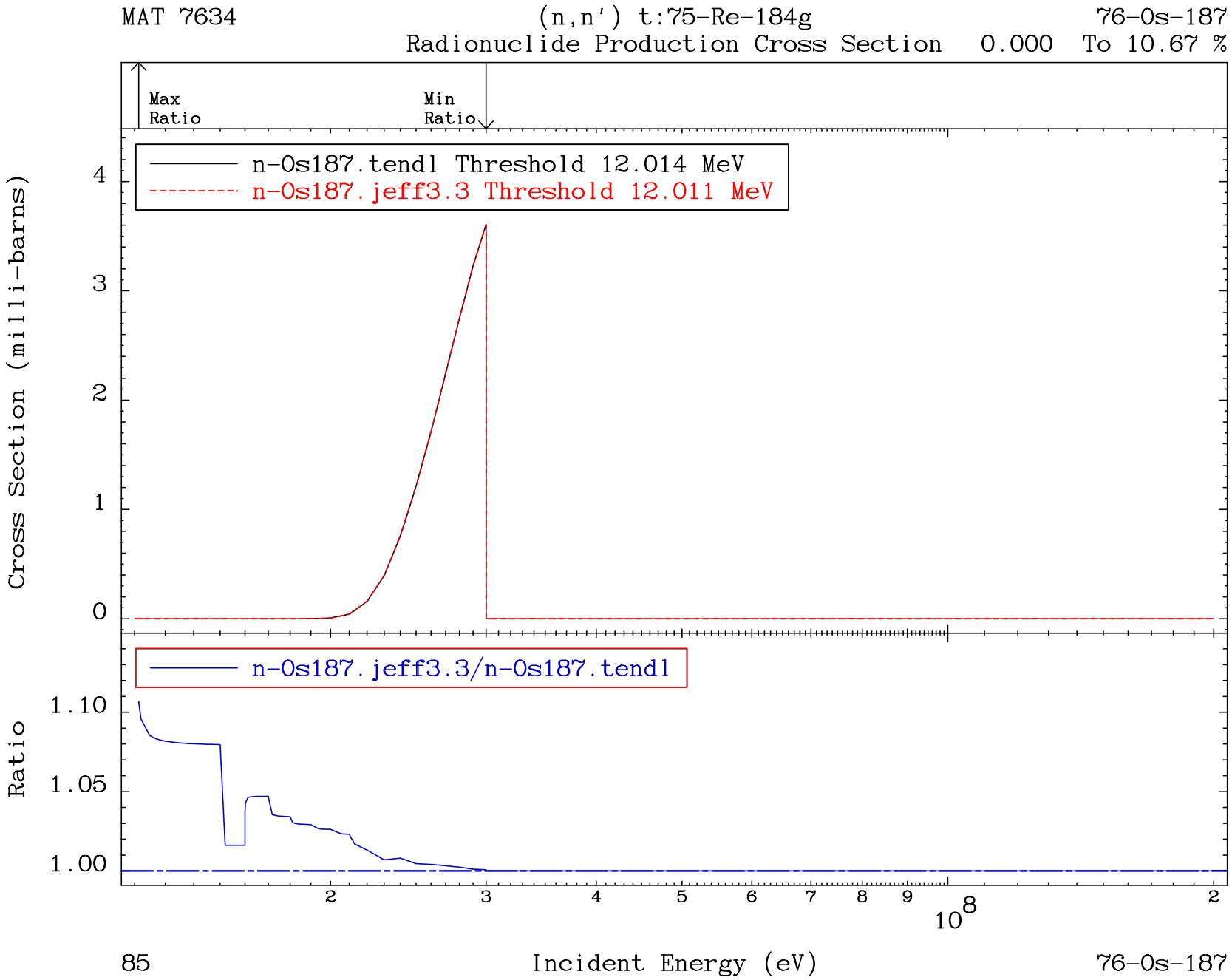

MAT 7634
(n,2n) d:75-Re-184g
76-0s-187
Radionuclide Production Cross Section 0.000 To 26.69 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 18.305 MeV
n-0s187.jeff3.3 Threshold 18.302 MeV
Cross Section (micro-barns)
400
300
200
100
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.3
1.2
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
80
Incident Energy (eV)
76-0s-187

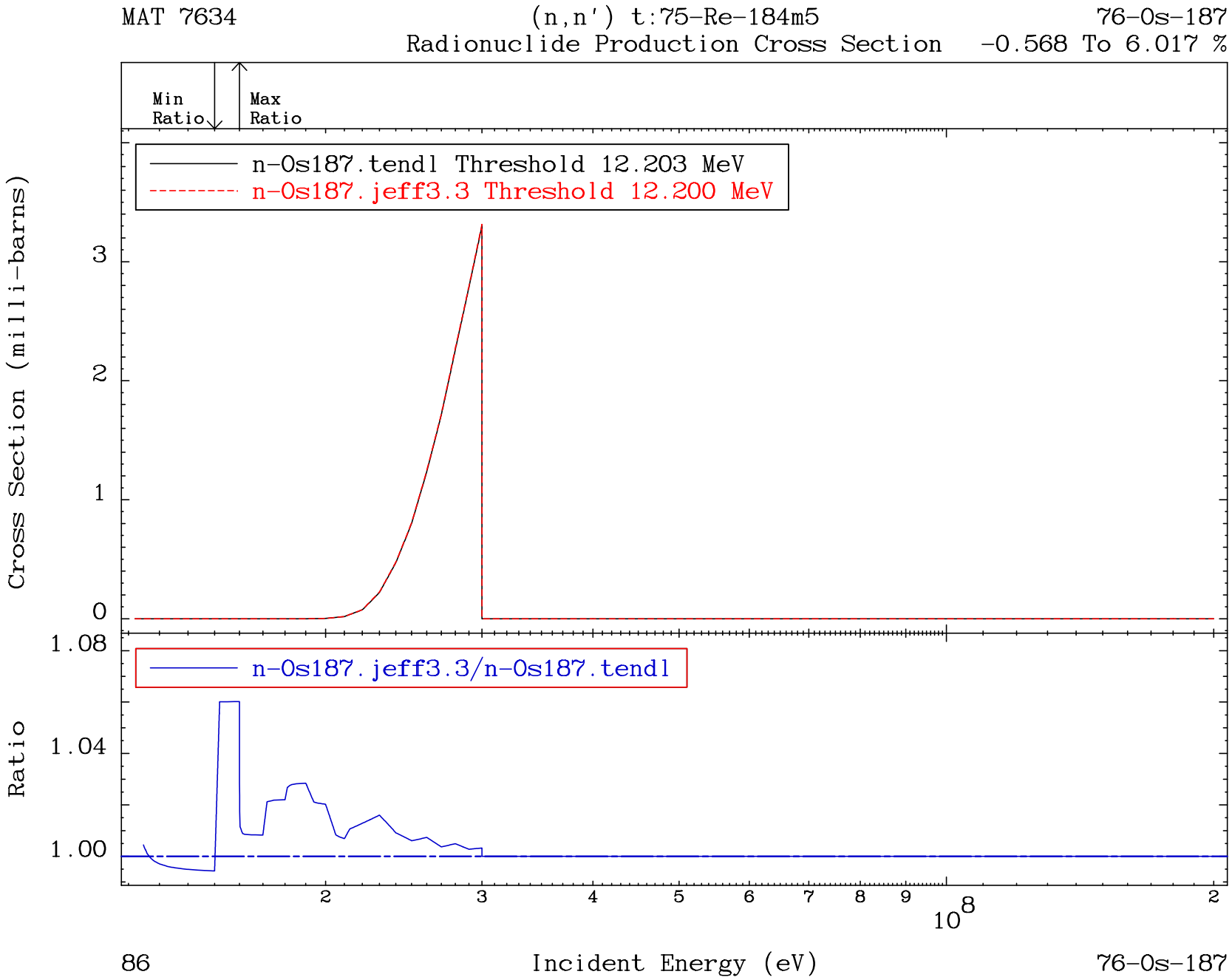

MAT 7634
(n,2n) d:75-Re-184m5
76-Os-187
Radionuclide Production Cross Section -1.670 To 44.77 %
Min Ratio
n-Os187.tendl Threshold 18.494 MeV
n-Os187.jeff3.3 Threshold 18.491 MeV
Cross Section (micro-barns)
300
250
200
150
100
50
0
n-Os187.jeff3.3/n-Os187.tendl
Ratio
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
76-Os-187

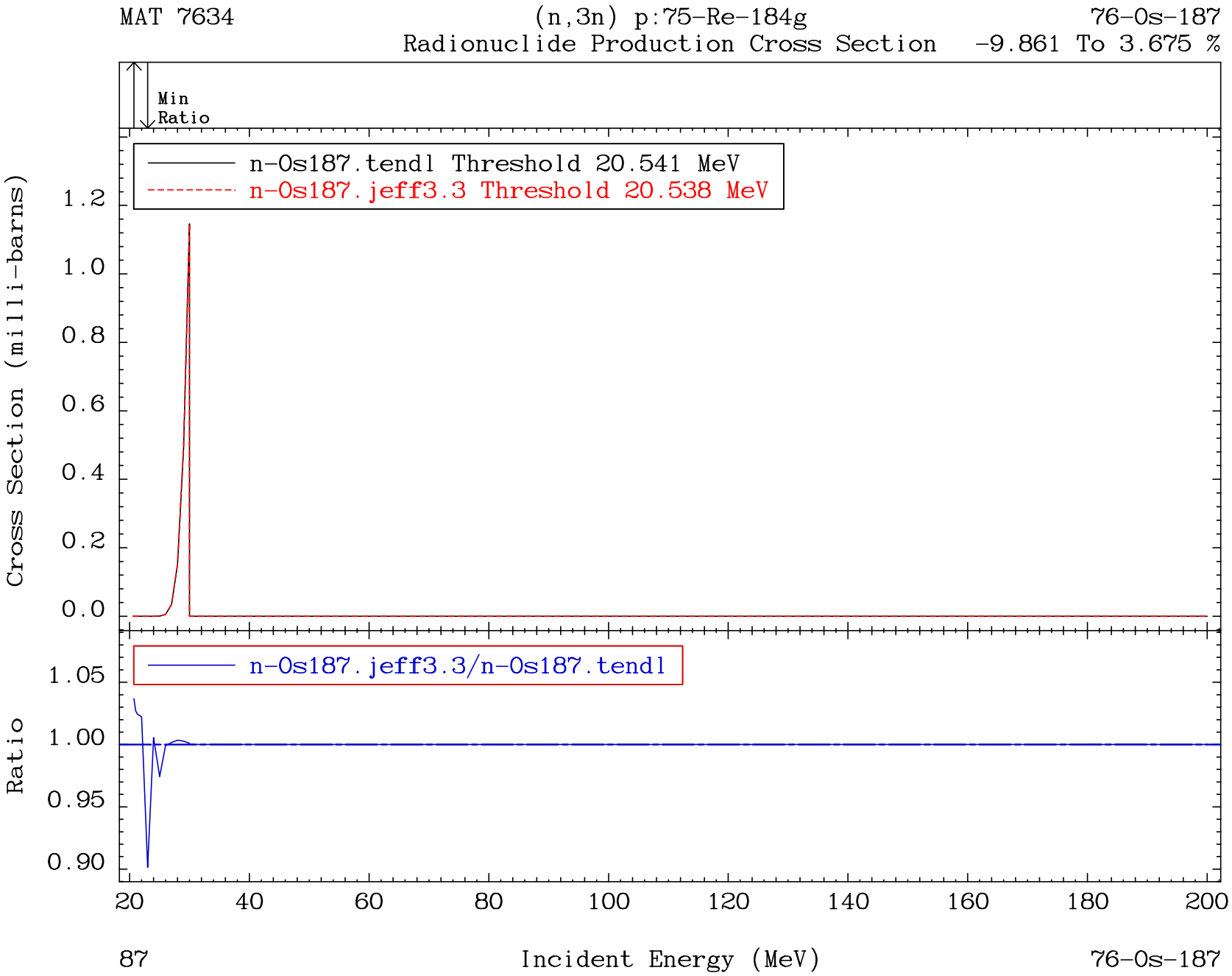

MAT 7634
Fission:Photon
76-Os-187
Radionuclide Production Cross Section
-5.828 To 2.299 %
Min
Ratio
n-Os187.tendl
n-Os187.jeff3.3
Cross Section (barns)
10-3
10-6
10-9
10-12
10-15
10-18
n-Os187.jeff3.3/n-Os187.tendl
Ratio
1.00
0.95
10-5
10-4
10-3
10-2
10-1
100
101
102
103
104
105
106
107
108
82
Incident Energy (eV)
76-Os-187

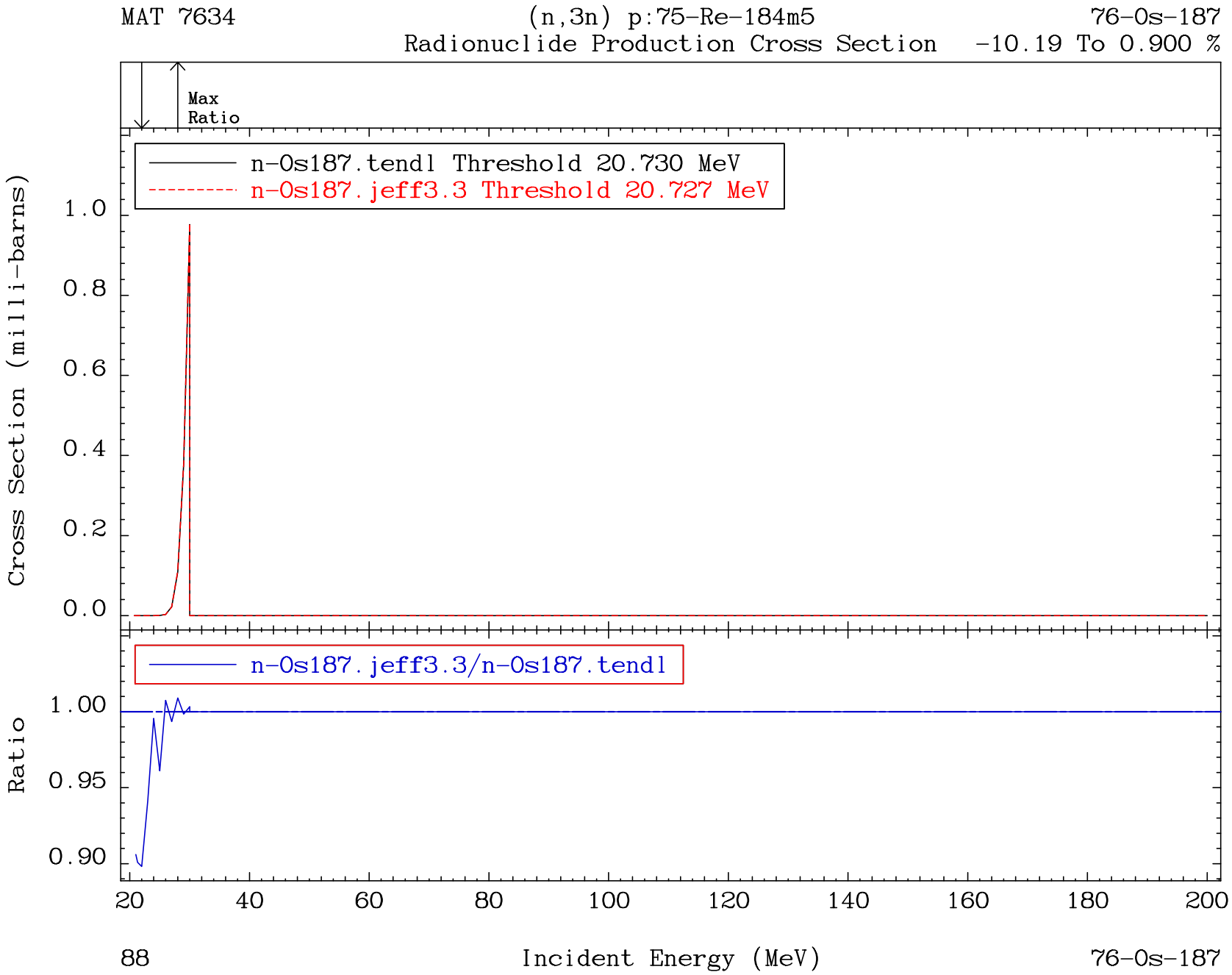

MAT 7634
(n,n') p:75-Re-186g
76-0s-187
Radionuclide Production Cross Section
-3.894 To 0.867 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 6.6163 MeV
n-0s187.jeff3.3 Threshold 6.6148 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.02
1.00
0.98
0.96
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
83
Incident Energy (eV)
76-0s-187

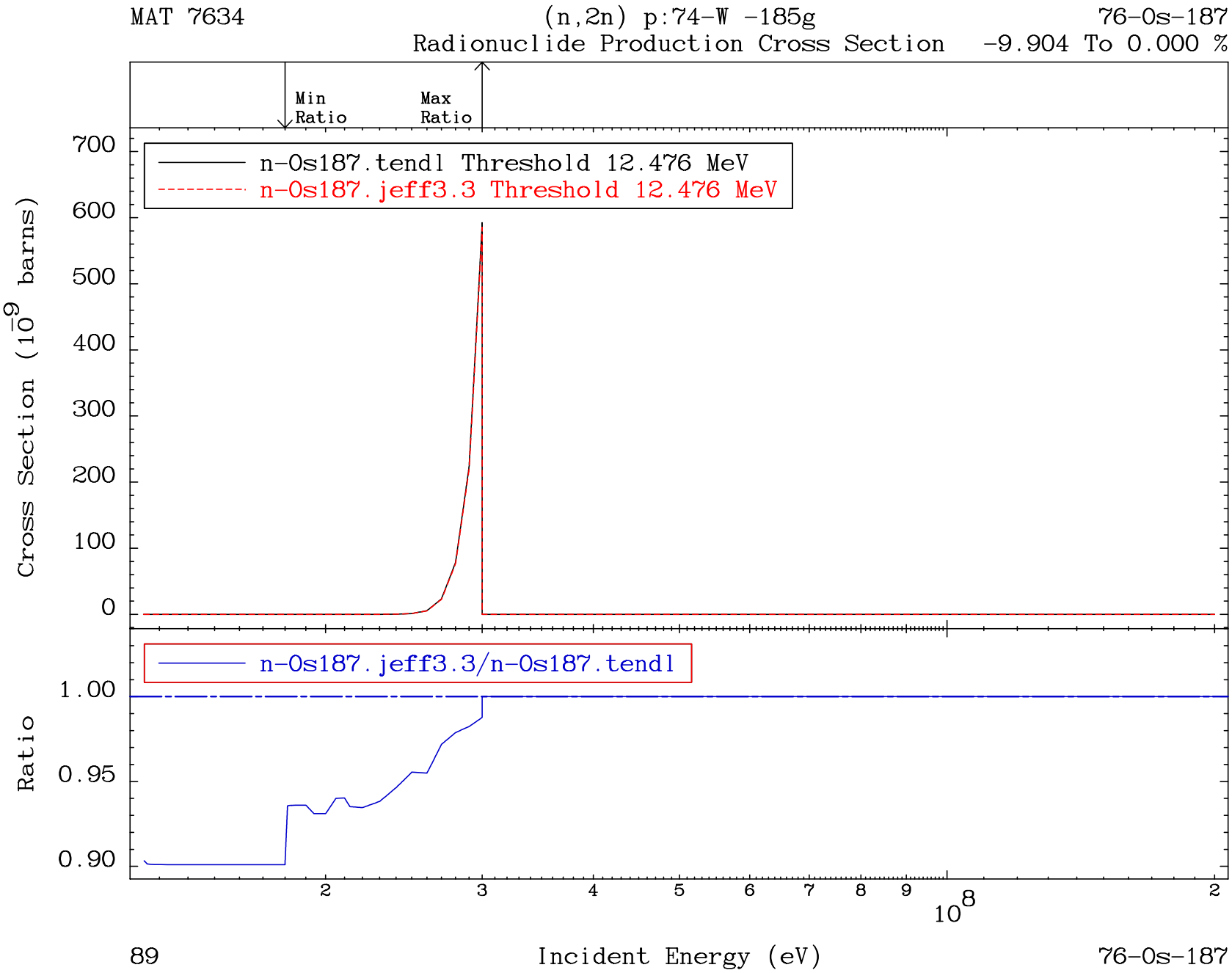

MAT 7634
(n,n') p:75-Re-186m4
76-0s-187
Radionuclide Production Cross Section -2.938 To 0.261 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 7.8000 MeV
n-0s187.jeff3.3 Threshold 7.8000 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.01
1.00
0.99
0.98
0.97
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
84
Incident Energy (eV)
76-0s-187

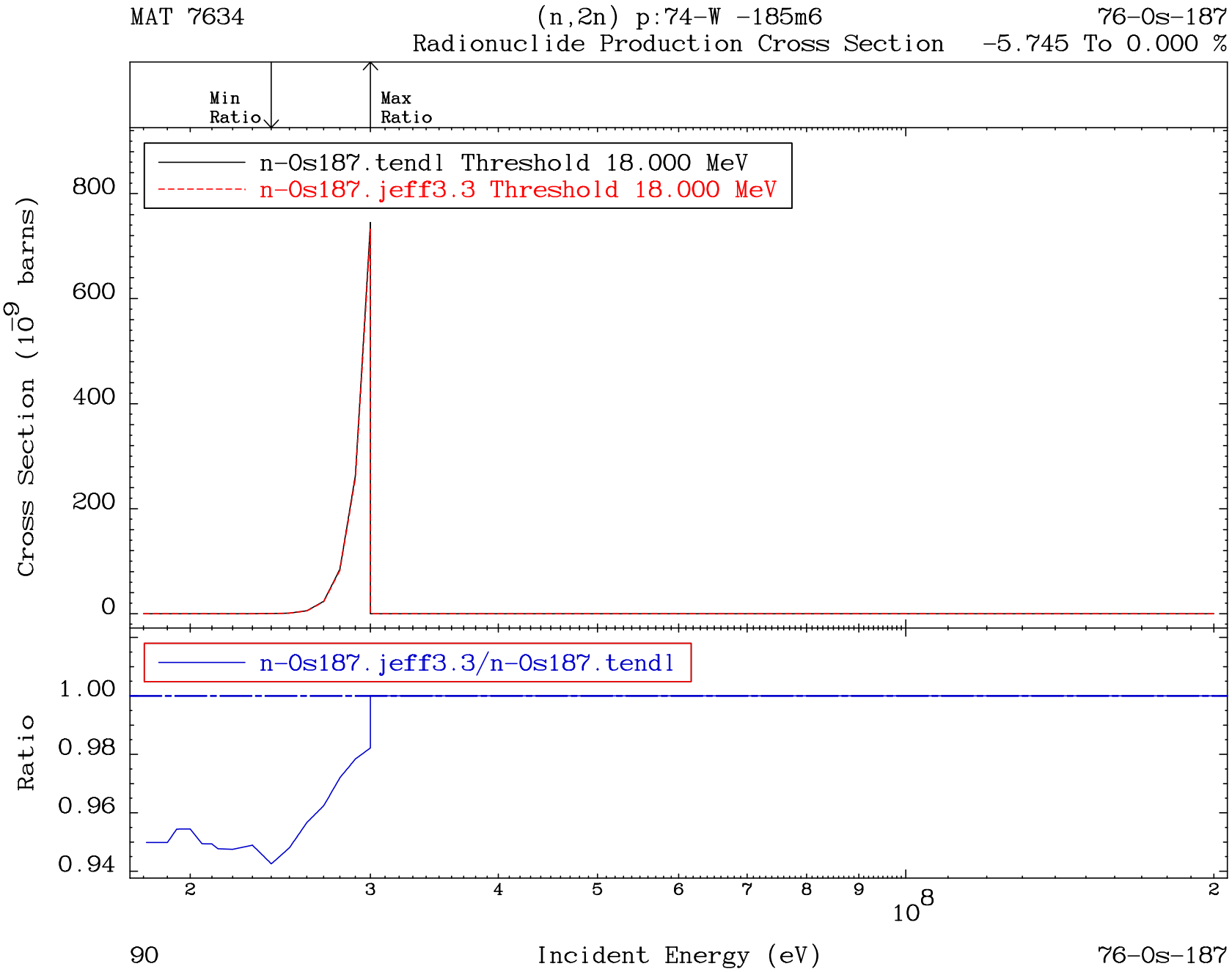

MAT 7634
(n,n') t:75-Re-184g
76-0s-187
Radionuclide Production Cross Section 0.000 To 10.67 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 12.014 MeV
n-0s187.jeff3.3 Threshold 12.011 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.00
1.05
1.10
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
76-0s-187

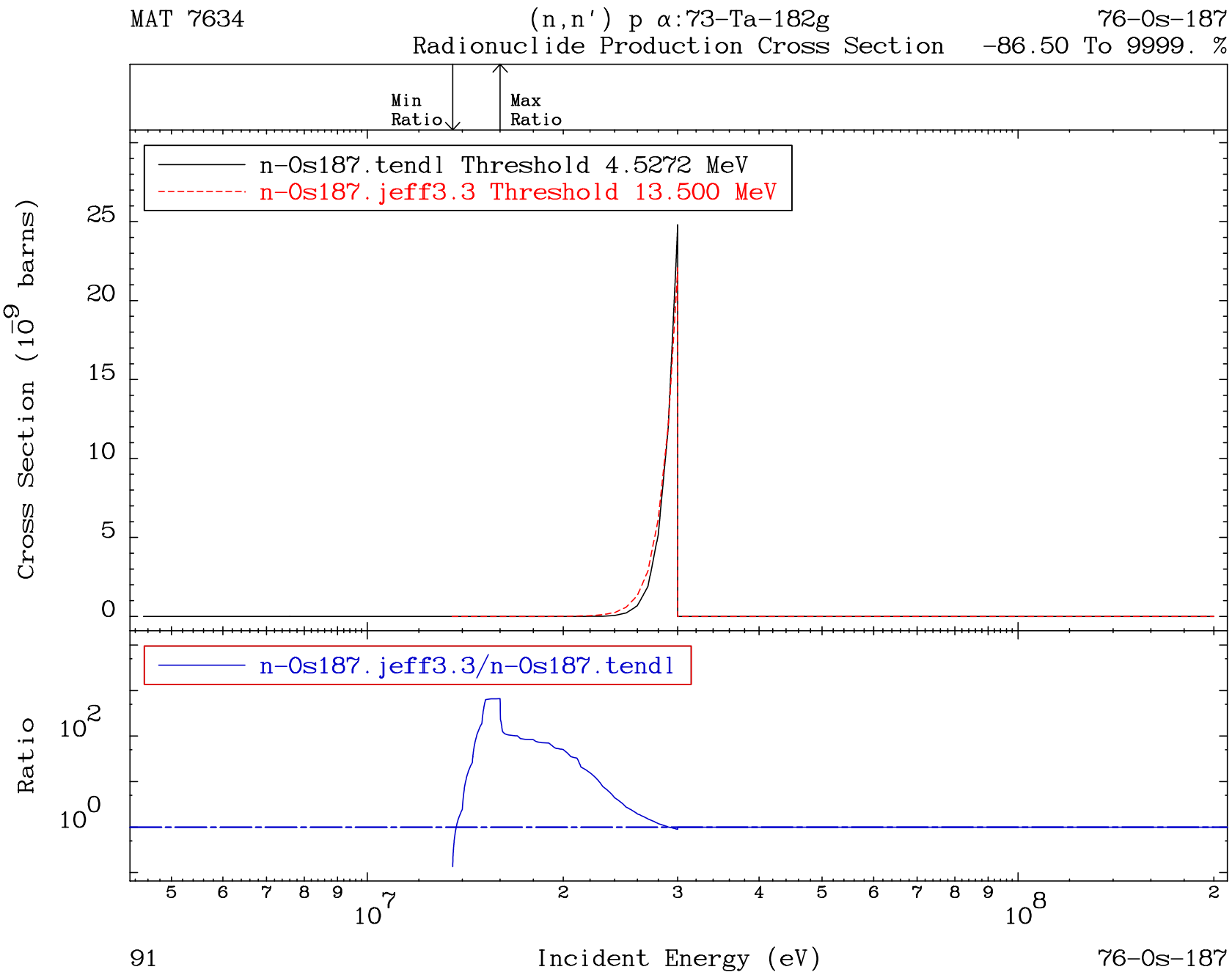

MAT 7634
(n,n') t:75-Re-184m5
76-0s-187
Radionuclide Production Cross Section
-0.568 To 6.017 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 12.203 MeV
n-0s187.jeff3.3 Threshold 12.200 MeV
Cross Section (milli-barns)
0
1
2
3
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.00
1.04
1.08
2
3
4
5
6
7
8
9
10^8
2
86
Incident Energy (eV)
76-0s-187

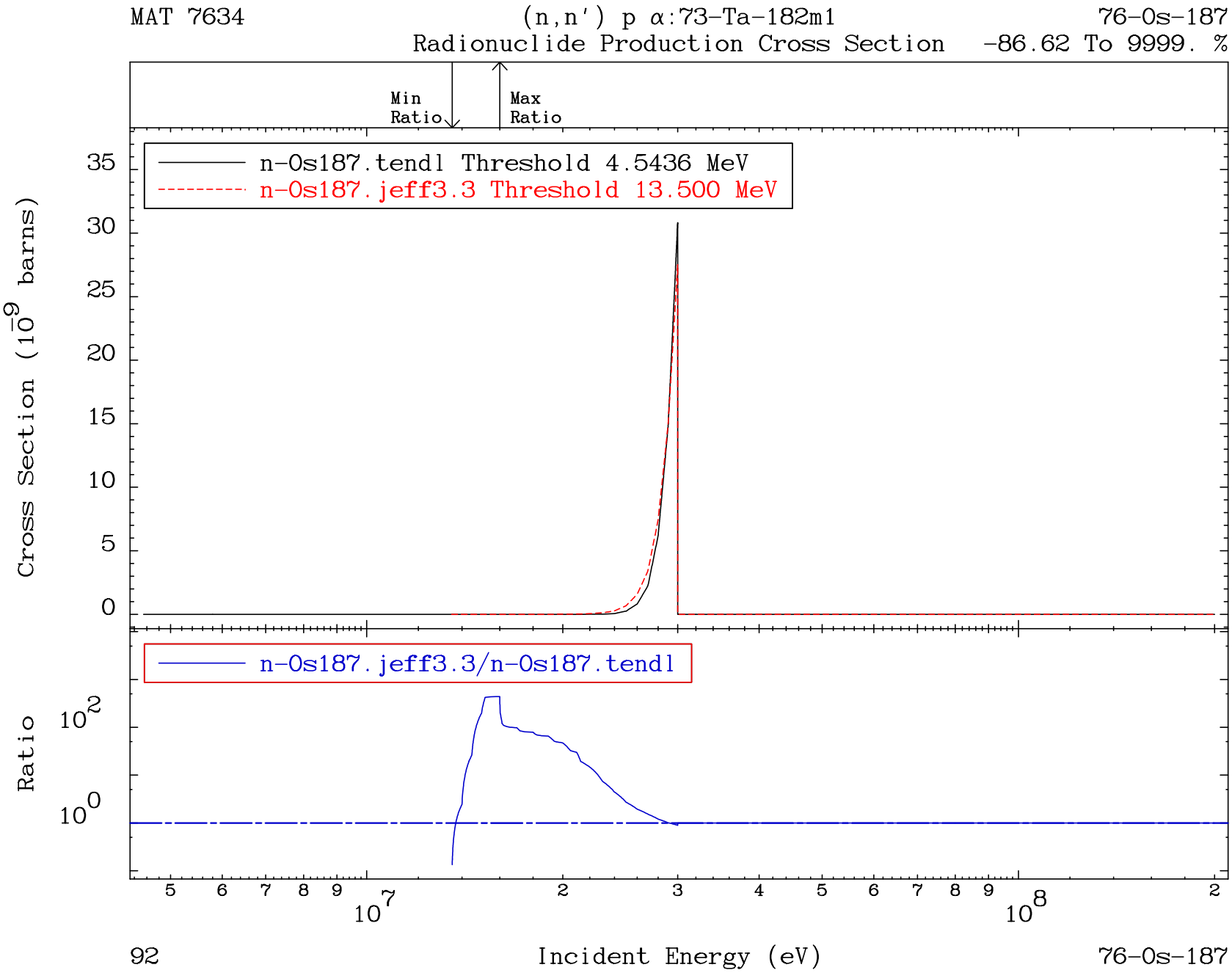

MAT 7634
(n,3n) p:75-Re-184g
76-0s-187
Radionuclide Production Cross Section
-9.861 To 3.675 %
Min
Ratio
n-0s187.tendl Threshold 20.541 MeV
n-0s187.jeff3.3 Threshold 20.538 MeV
Cross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.05
1.00
0.95
0.90
20
40
60
80
100
120
140
160
180
200
87
Incident Energy (MeV)
76-0s-187

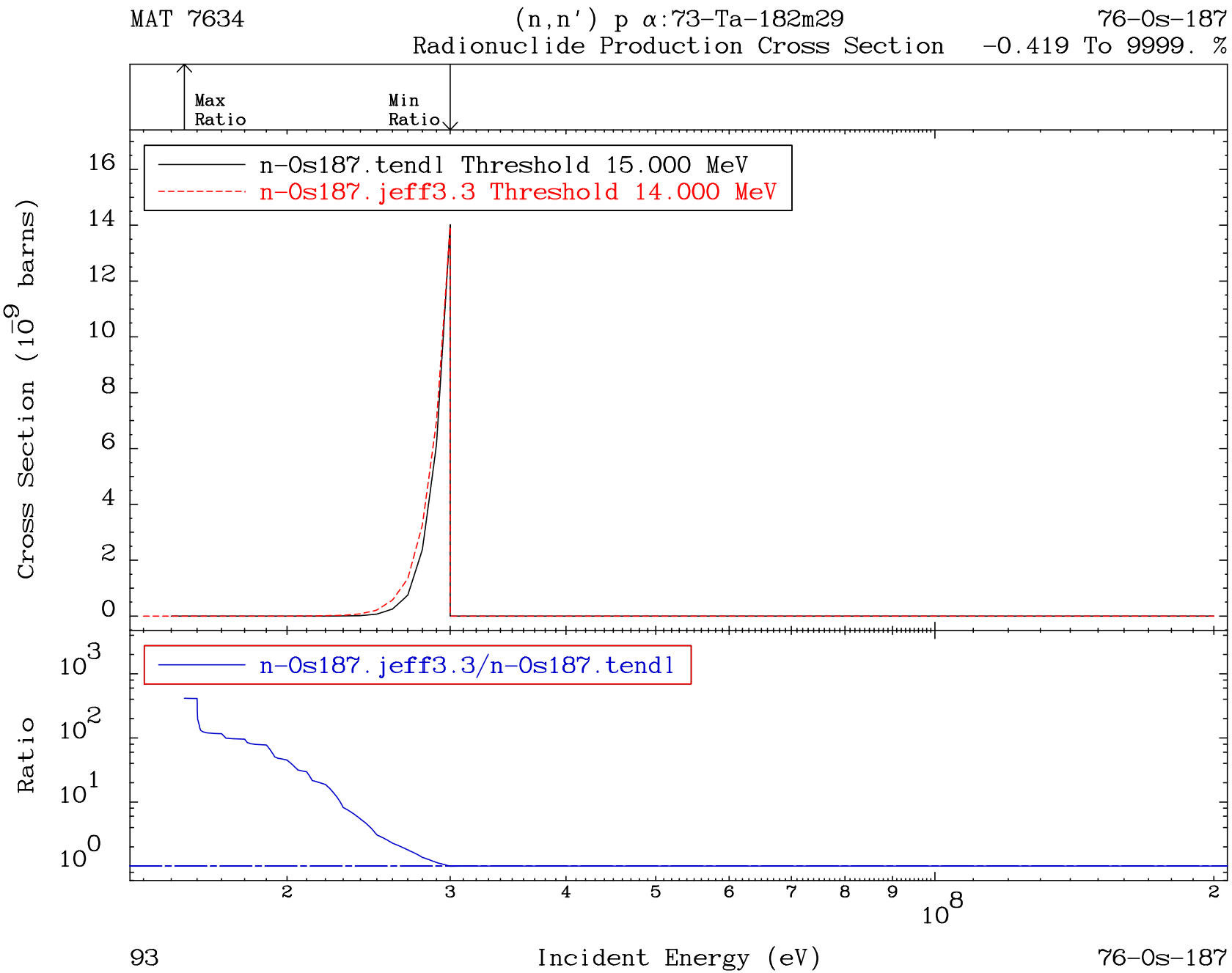

MAT 7634
(n,3n) p:75-Re-184m5
76-Os-187
Radionuclide Production Cross Section -10.19 To 0.900 %
Max
Ratio
n-Os187.tendl Threshold 20.730 MeV
n-Os187.jeff3.3 Threshold 20.727 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Os187.jeff3.3/n-Os187.tendl
Ratio
1.00
0.95
0.90
20
40
60
80
100
120
140
160
180
200
88
Incident Energy (MeV)
76-Os-187

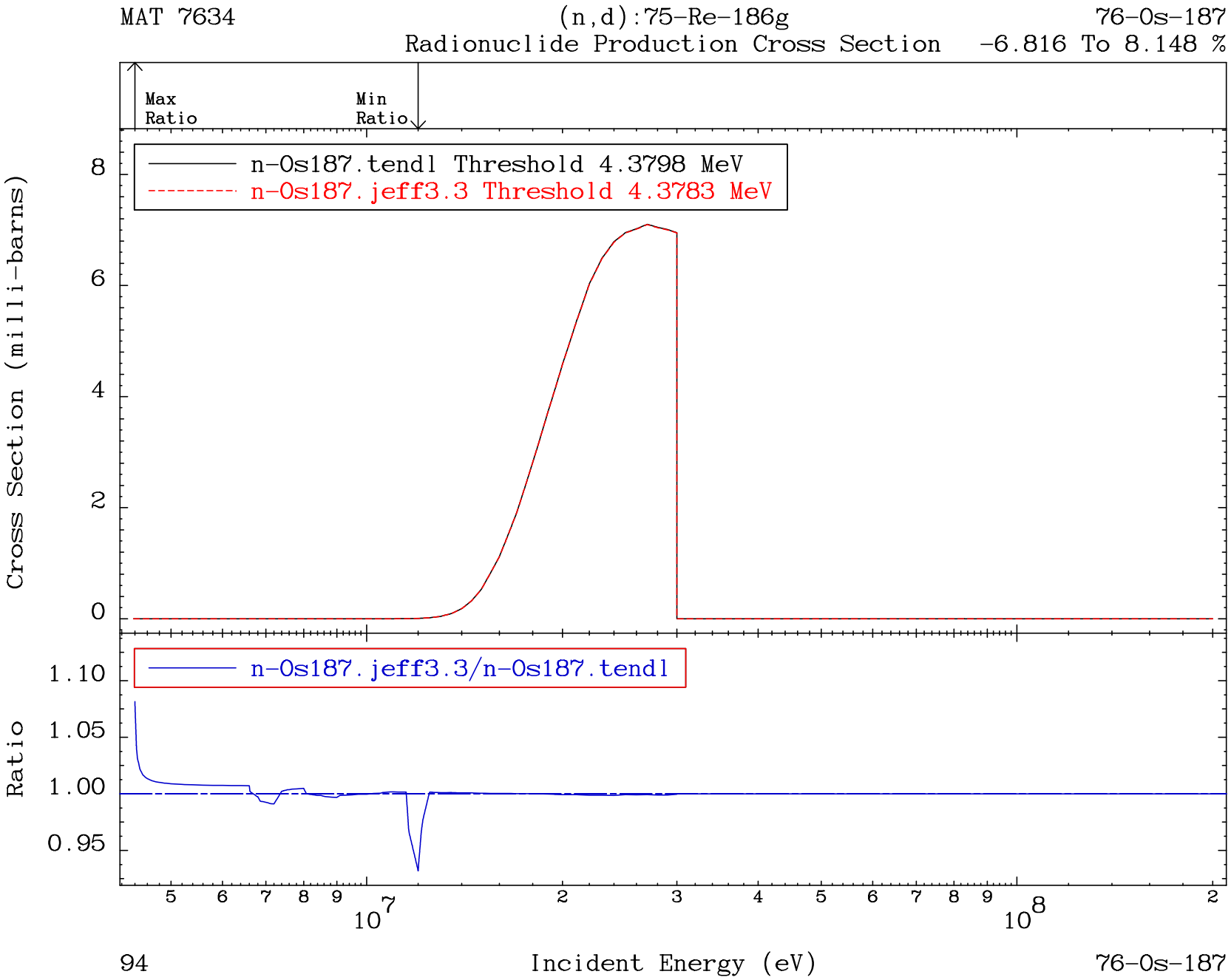

MAT 7634
(n,2n) p:74-W -185g
76-0s-187
Radionuclide Production Cross Section
-9.904 To 0.000 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 12.476 MeV
n-0s187.jeff3.3 Threshold 12.476 MeV
Cross Section ($10^{-9}$ barns)
700
600
500
400
300
200
100
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.00
0.95
0.90
2
3
4
5
6
7
8
9
$10^8$
2
89
Incident Energy (eV)
76-0s-187

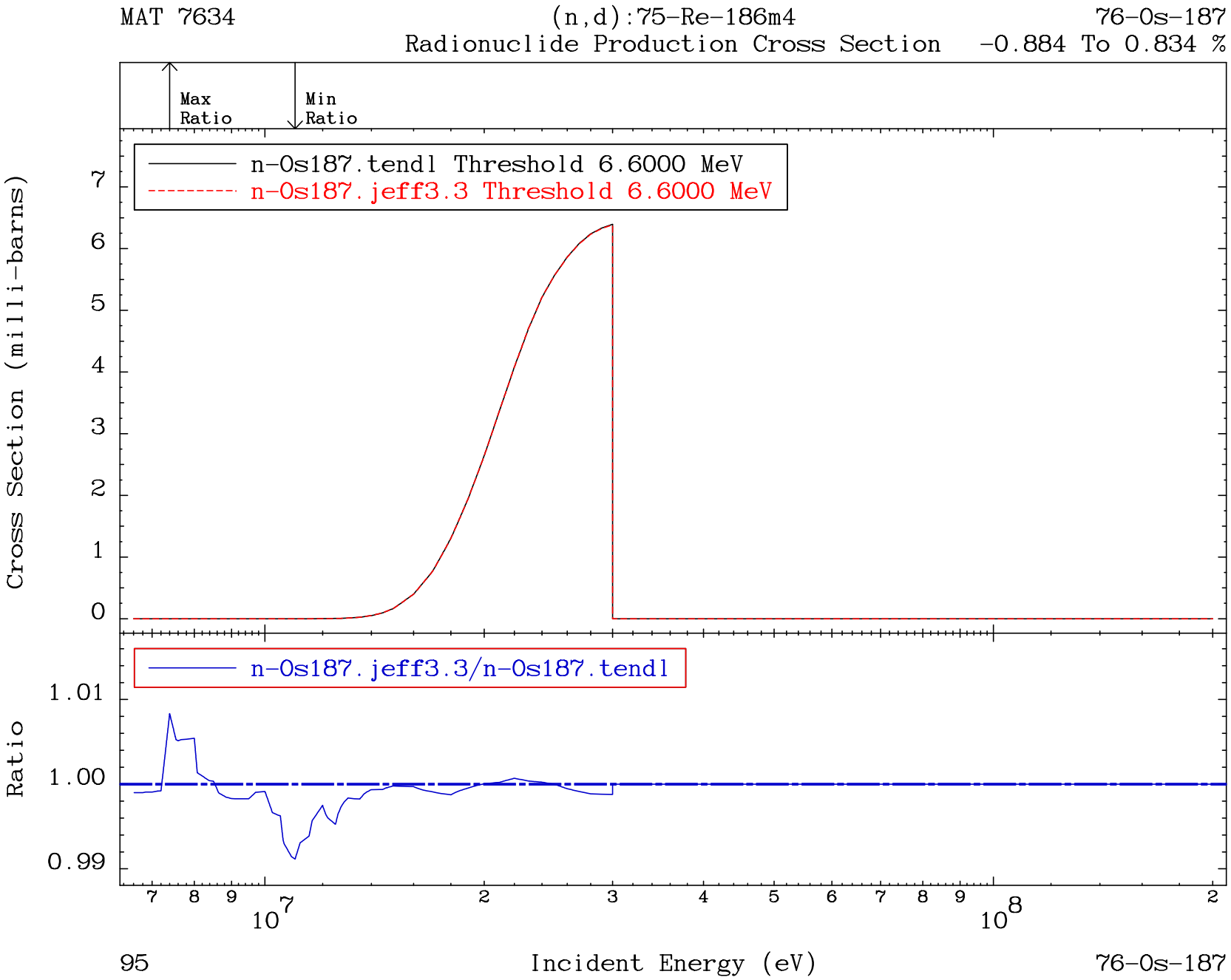

MAT 7634
(n,2n) p:74-W -185m6
76-0s-187
Radionuclide Production Cross Section -5.745 To 0.000 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 18.000 MeV
n-0s187.jeff3.3 Threshold 18.000 MeV
Cross Section ($10^{-9}$ barns)
800
600
400
200
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.00
0.98
0.96
0.94
2
3
4
5
6
7
8
9
$10^8$
2
90
Incident Energy (eV)
76-0s-187

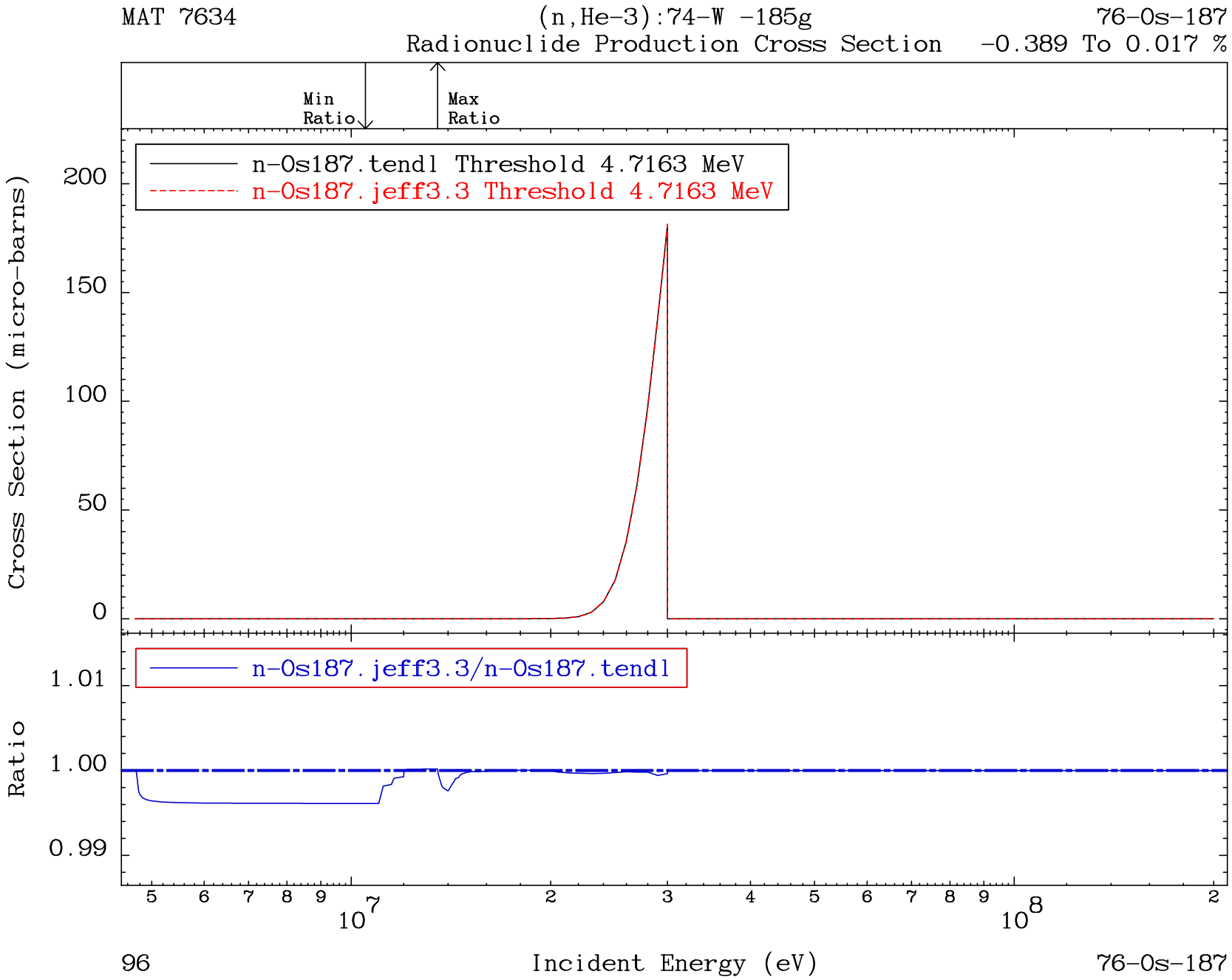

MAT 7634
(n,n') p α:73-Ta-182g
76-0s-187
Radionuclide Production Cross Section -86.50 To 9999. %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 4.5272 MeV
n-0s187.jeff3.3 Threshold 13.500 MeV
Cross Section ($10^{-9}$ barns)
25
20
15
10
5
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
$10^{2}$
$10^{0}$
5 6 7 8 9 $10^{7}$ 2 3 4 5 6 7 8 9 $10^{8}$ 2
91
Incident Energy (eV)
76-0s-187

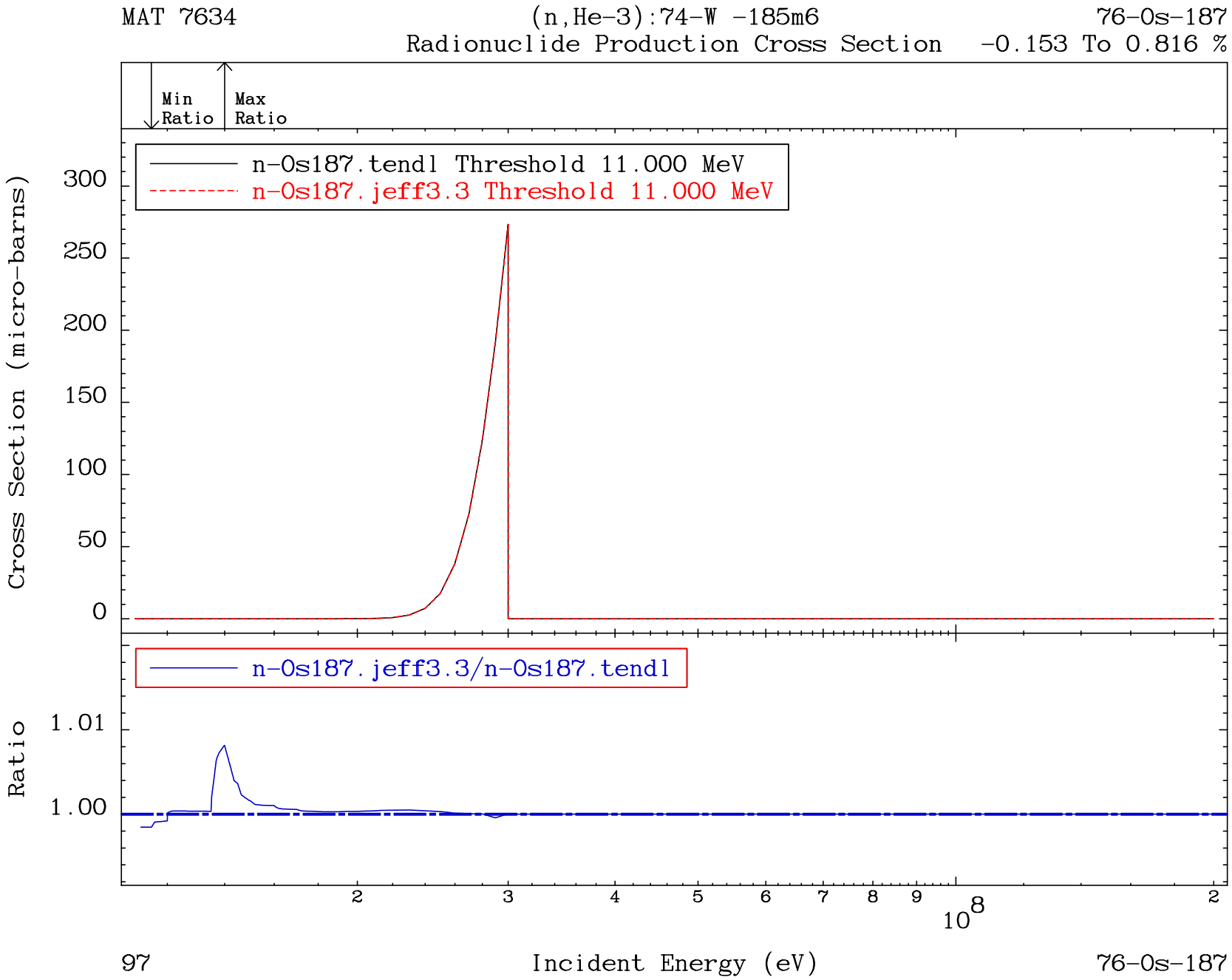

MAT 7634
(n,n') p α:73-Ta-182m1
76-Os-187
Radionuclide Production Cross Section -86.62 To 9999. %
Min Ratio
Max Ratio
n-Os187.tendl Threshold 4.5436 MeV
n-Os187.jeff3.3 Threshold 13.500 MeV
Cross Section ($10^{-9}$ barns)
35
30
25
20
15
10
5
0
n-Os187.jeff3.3/n-Os187.tendl
Ratio
$10^{2}$
$10^{0}$
5 6 7 8 9 $10^{7}$ 2 3 4 5 6 7 8 9 $10^{8}$ 2
92
Incident Energy (eV)
76-Os-187

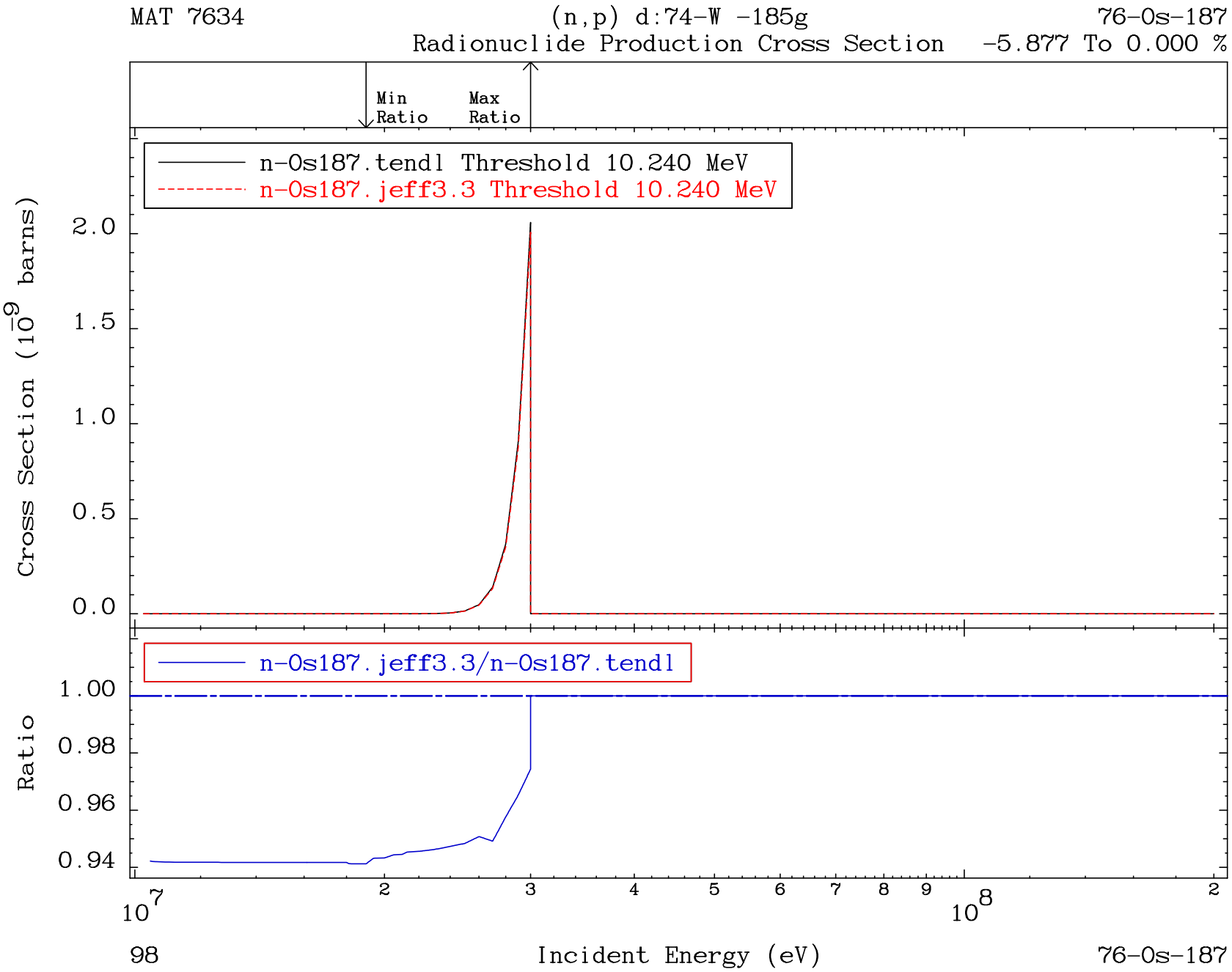

MAT 7634
(n,n') p α:73-Ta-182m29
76-Os-187
Radionuclide Production Cross Section -0.419 To 9999. %
Max Ratio
Min Ratio
n-Os187.tendl Threshold 15.000 MeV
n-Os187.jeff3.3 Threshold 14.000 MeV
Cross Section ($10^{-9}$ barns)
16
14
12
10
8
6
4
2
0
n-Os187.jeff3.3/n-Os187.tendl
Ratio
$10^3$
$10^2$
$10^1$
$10^0$
2
3
4
5
6
7
8
9
$10^8$
2
93
Incident Energy (eV)
76-Os-187

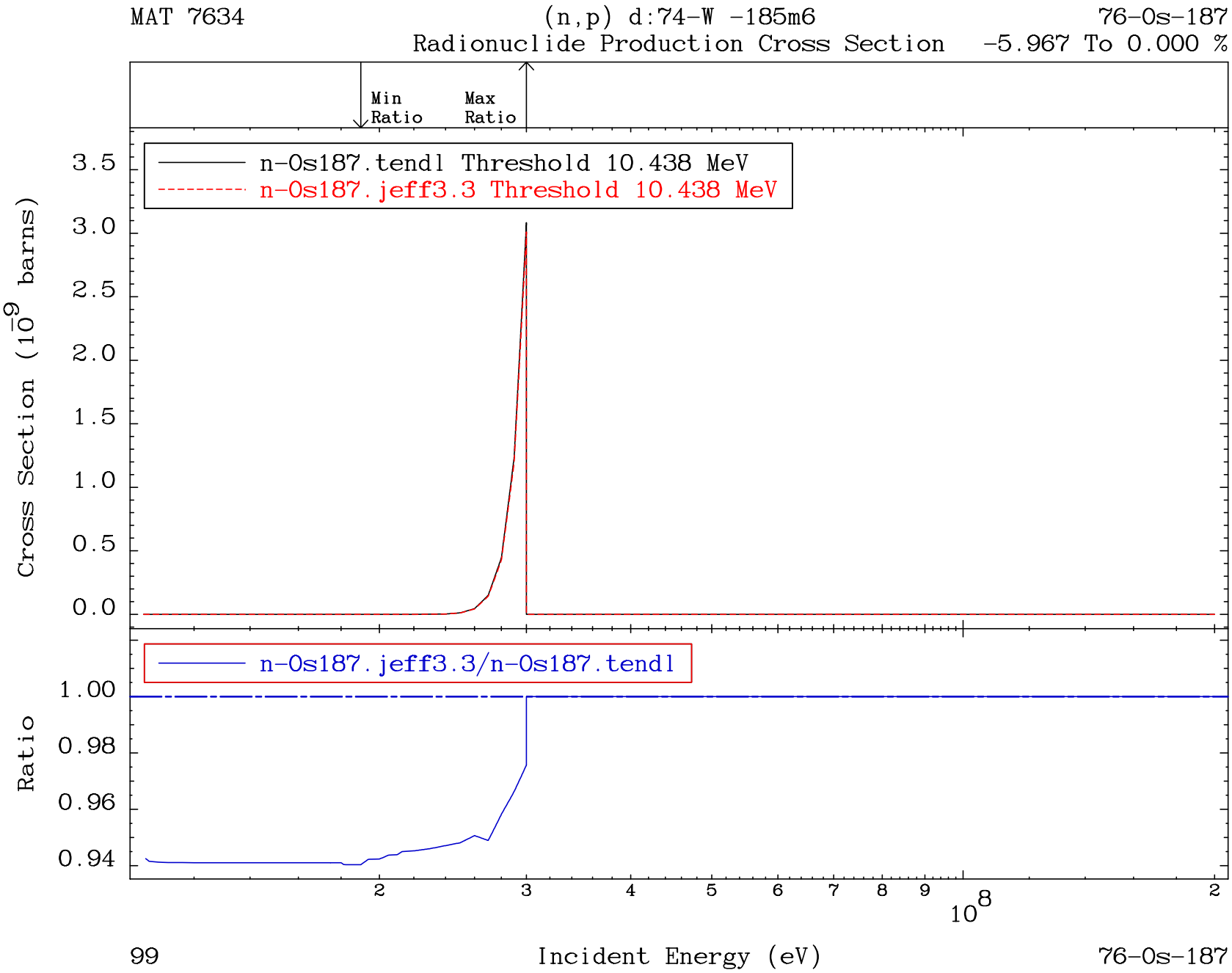

MAT 7634
(n,d):75-Re-186g
76-Os-187
Radionuclide Production Cross Section
-6.816 To 8.148 %
Max Ratio
Min Ratio
n-Os187.tendl Threshold 4.3798 MeV
n-Os187.jeff3.3 Threshold 4.3783 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Os187.jeff3.3/n-Os187.tendl
Ratio
0.95
1.00
1.05
1.10
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
94
Incident Energy (eV)
76-Os-187

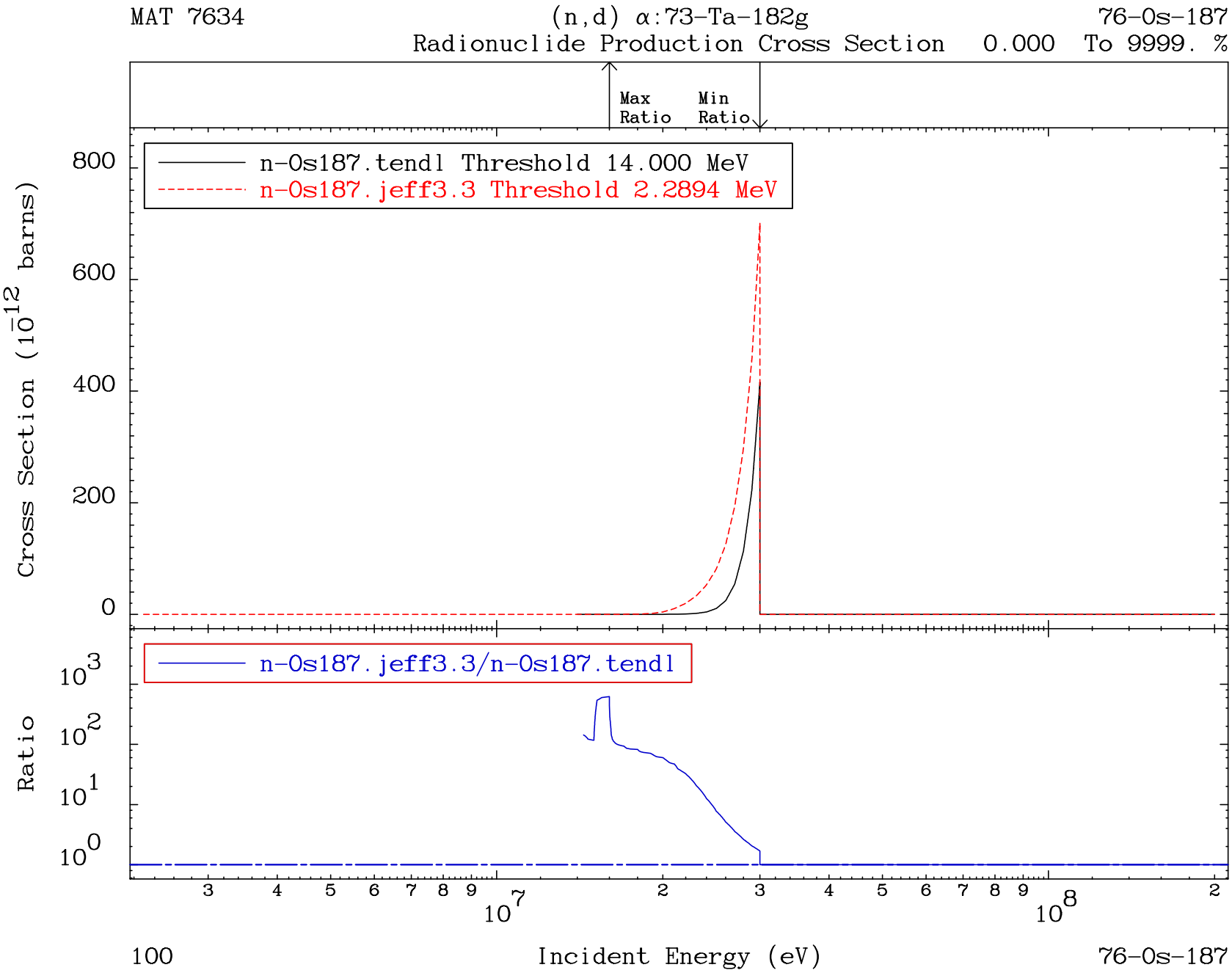

MAT 7634
(n,d):75-Re-186m4
76-0s-187
Radionuclide Production Cross Section
-0.884 To 0.834 %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 6.6000 MeV
n-0s187.jeff3.3 Threshold 6.6000 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
n-0s187.jeff3.3/n-0s187.tendl
Ratio
0.99
1.00
1.01
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
95
Incident Energy (eV)
76-0s-187

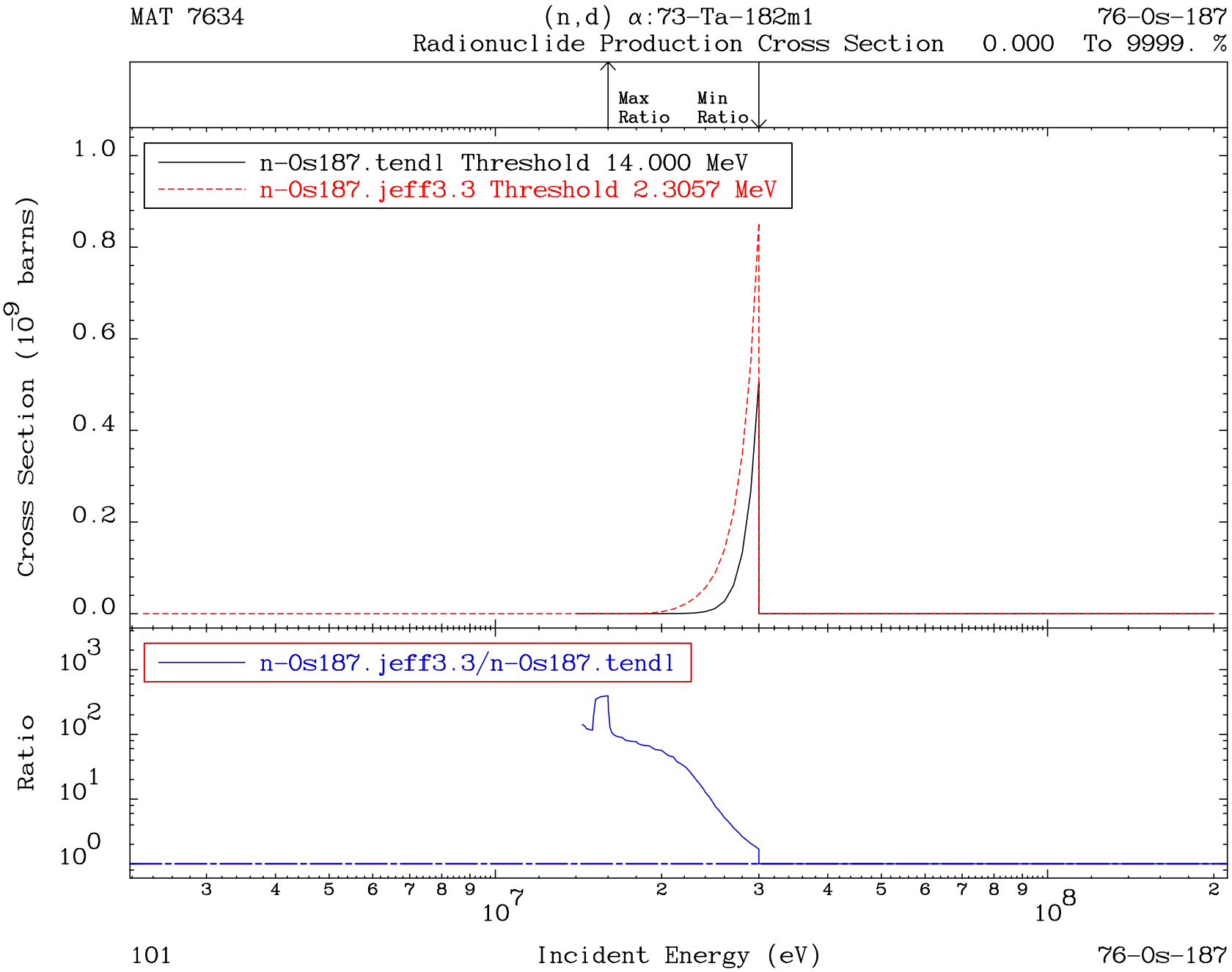

MAT 7634
(n,He-3):74-W -185g
76-0s-187
Radionuclide Production Cross Section -0.389 To 0.017 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 4.7163 MeV
n-0s187.jeff3.3 Threshold 4.7163 MeV
Cross Section (micro-barns)
200
150
100
50
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.01
1.00
0.99
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
96
Incident Energy (eV)
76-0s-187

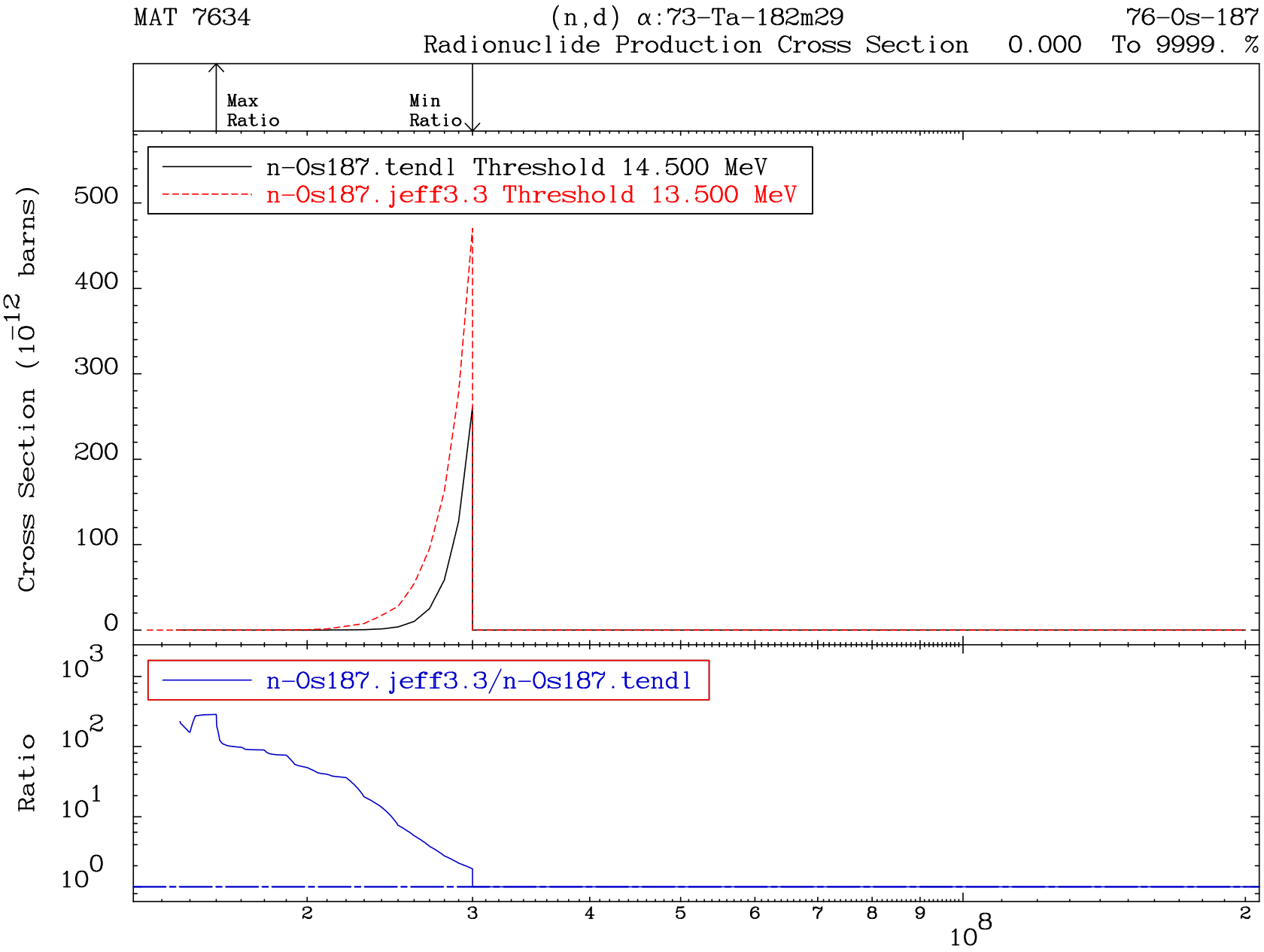

MAT 7634
(n,He-3):74-W -185m6
76-0s-187
Radionuclide Production Cross Section -0.153 To 0.816 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 11.000 MeV
n-0s187.jeff3.3 Threshold 11.000 MeV
Cross Section (micro-barns)
300
250
200
150
100
50
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
97
Incident Energy (eV)
76-0s-187


MAT 7634
(n,p) d:74-W -185g
76-Os-187
Radionuclide Production Cross Section -5.877 To 0.000 %
Min Ratio
Max Ratio
n-Os187.tendl Threshold 10.240 MeV
n-Os187.jeff3.3 Threshold 10.240 MeV
Cross Section ($10^{-9}$ barns)
2.0
1.5
1.0
0.5
0.0
n-Os187.jeff3.3/n-Os187.tendl
Ratio
1.00
0.98
0.96
0.94
$10^7$
2
3
4
5
6
7
8
9
$10^8$
2
98
Incident Energy (eV)
76-Os-187


MAT 7634
(n,p) d:74-W -185m6
76-0s-187
Radionuclide Production Cross Section -5.967 To 0.000 %
Min Ratio
Max Ratio
n-0s187.tendl Threshold 10.438 MeV
n-0s187.jeff3.3 Threshold 10.438 MeV
Cross Section ($10^{-9}$ barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
1.00
0.98
0.96
0.94
2
3
4
5
6
7
8
9
$10^8$
2
99
Incident Energy (eV)
76-0s-187


MAT 7634
(n,d) α:73-Ta-182g
76-Os-187
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-Os187.tendl Threshold 14.000 MeV
n-Os187.jeff3.3 Threshold 2.2894 MeV
Cross Section (10^-12 barns)
800
600
400
200
0
n-Os187.jeff3.3/n-Os187.tendl
Ratio
10^3
10^2
10^1
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
100
Incident Energy (eV)
76-Os-187


MAT 7634
(n,d) α:73-Ta-182m1
76-0s-187
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 14.000 MeV
n-0s187.jeff3.3 Threshold 2.3057 MeV
Cross Section ($10^{-9}$ barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
$10^3$
$10^2$
$10^1$
$10^0$
3 4 5 6 7 8 9
$10^7$
2 3 4 5 6 7 8 9
$10^8$
2
101
Incident Energy (eV)
76-0s-187


MAT 7634
(n,d) α:73-Ta-182m29
76-0s-187
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-0s187.tendl Threshold 14.500 MeV
n-0s187.jeff3.3 Threshold 13.500 MeV
Cross Section ($10^{-12}$ barns)
500
400
300
200
100
0
n-0s187.jeff3.3/n-0s187.tendl
Ratio
$10^3$
$10^2$
$10^1$
$10^0$
2
3
4
5
6
7
8
9
$10^8$
2
102
Incident Energy (eV)
76-0s-187