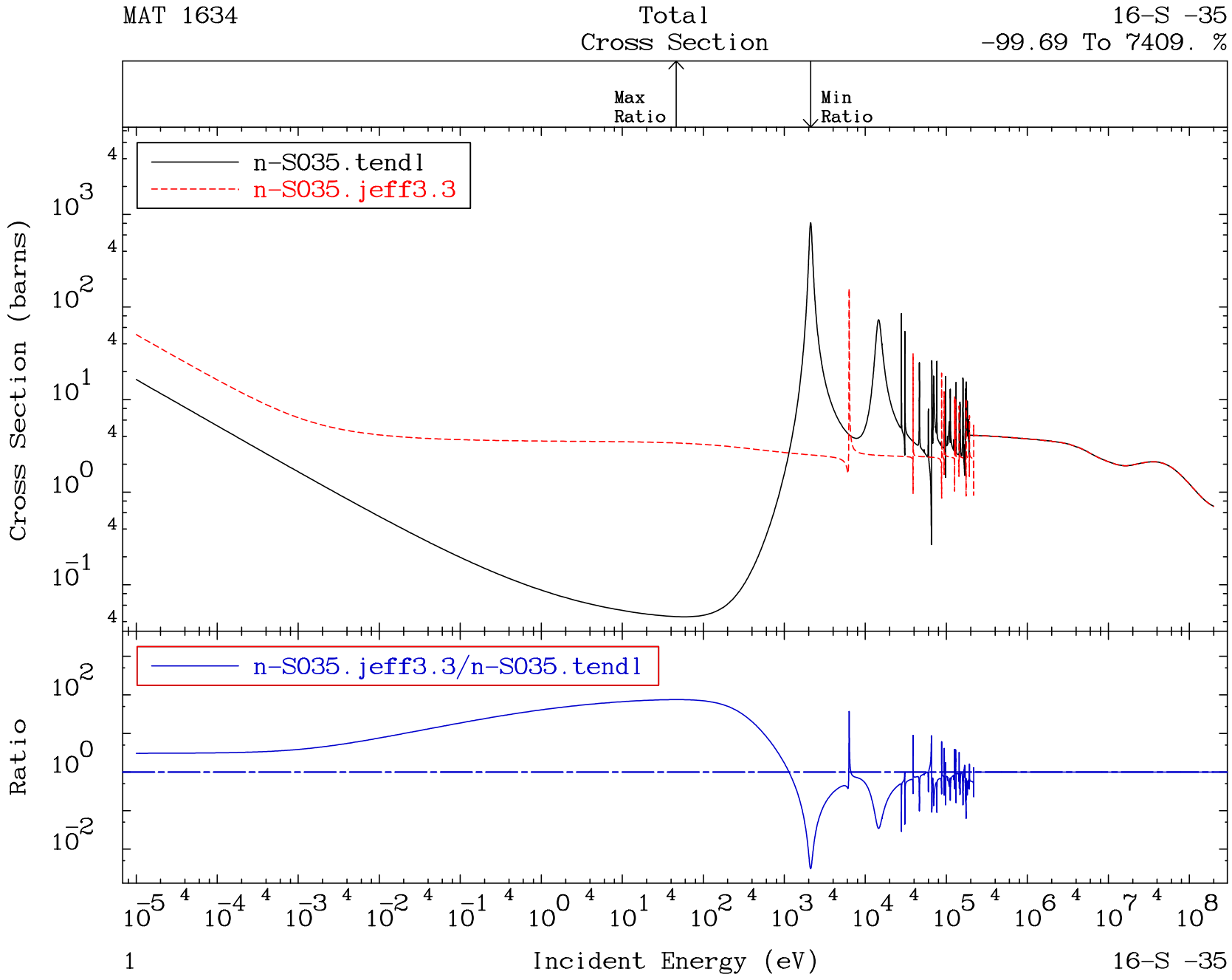
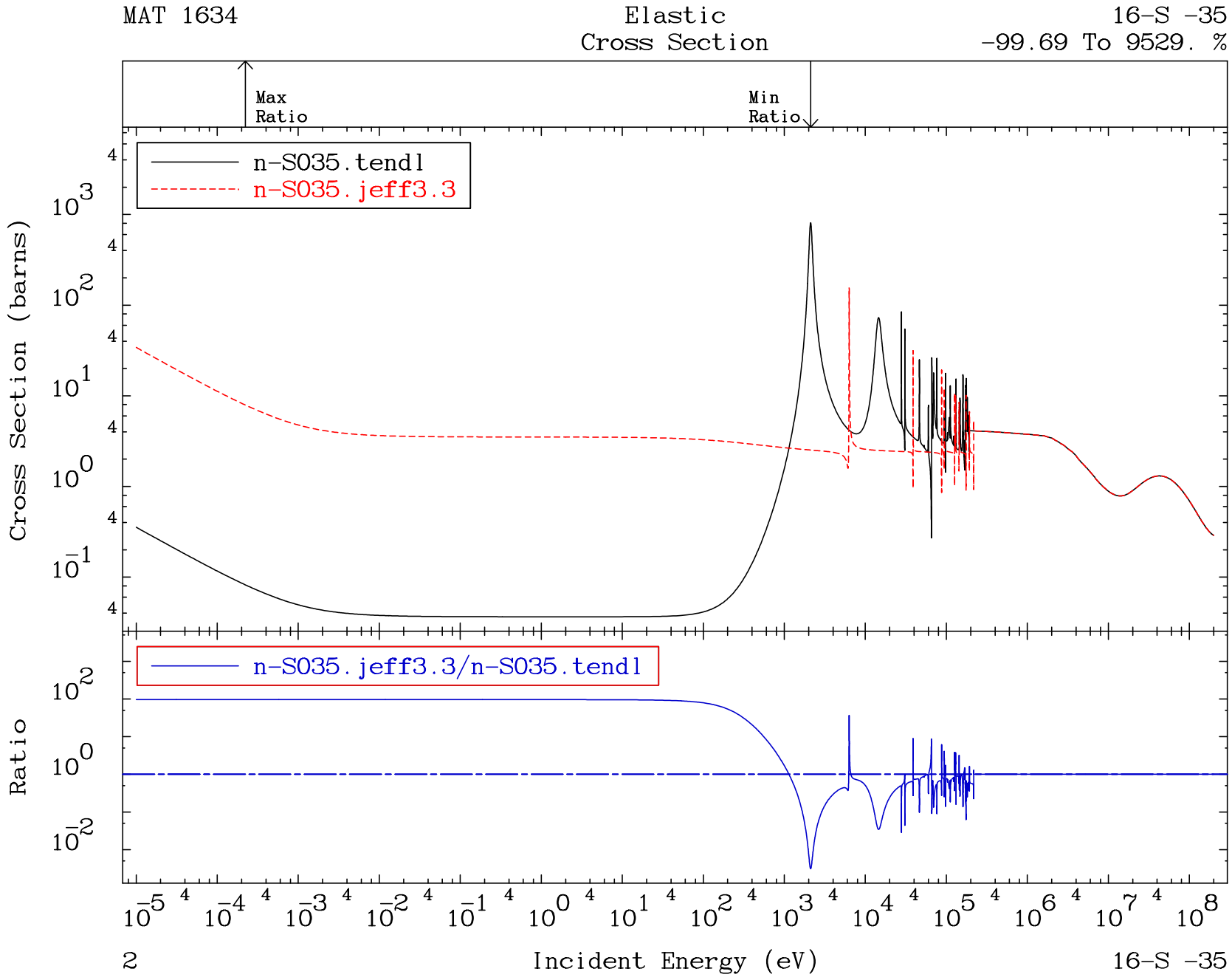
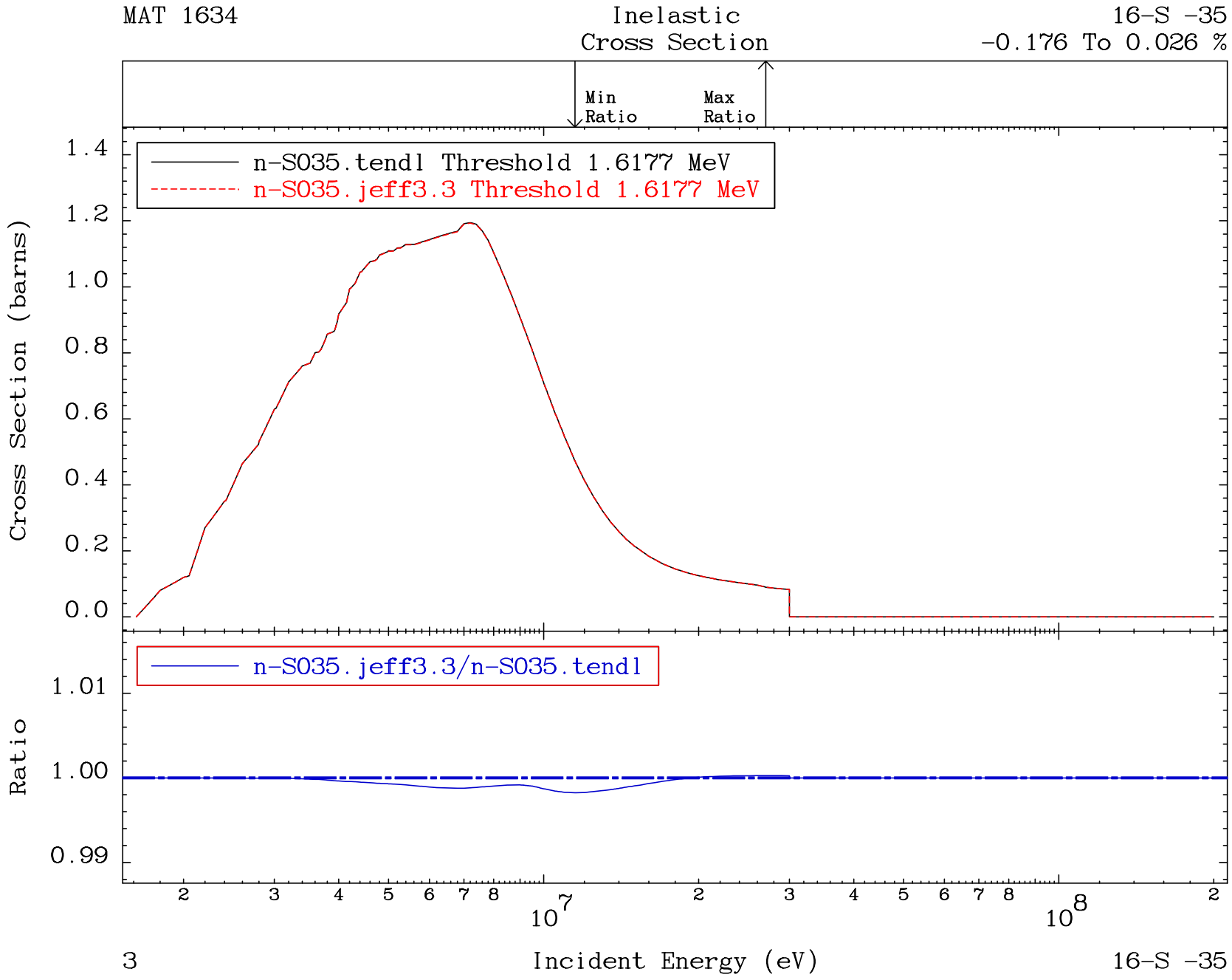
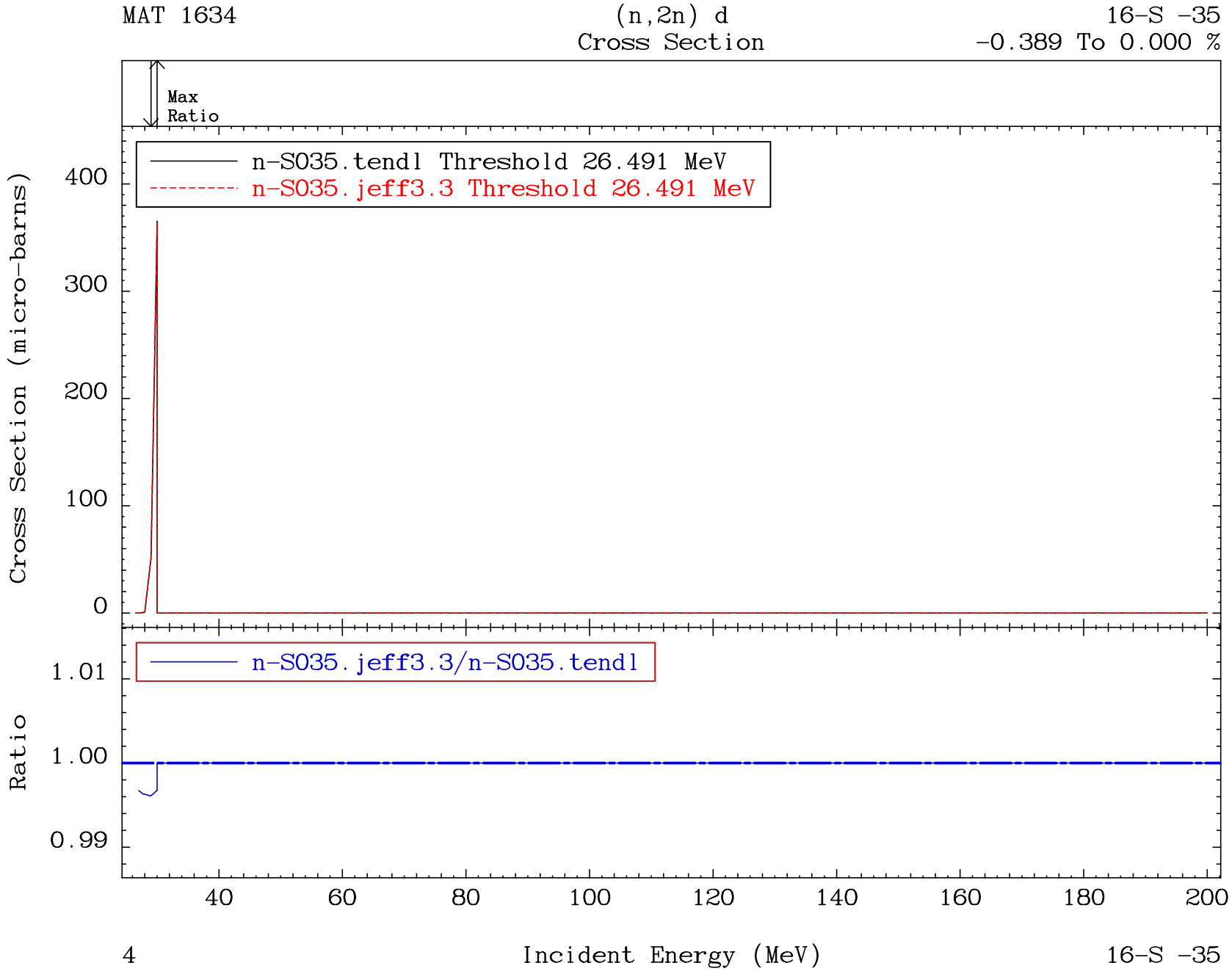
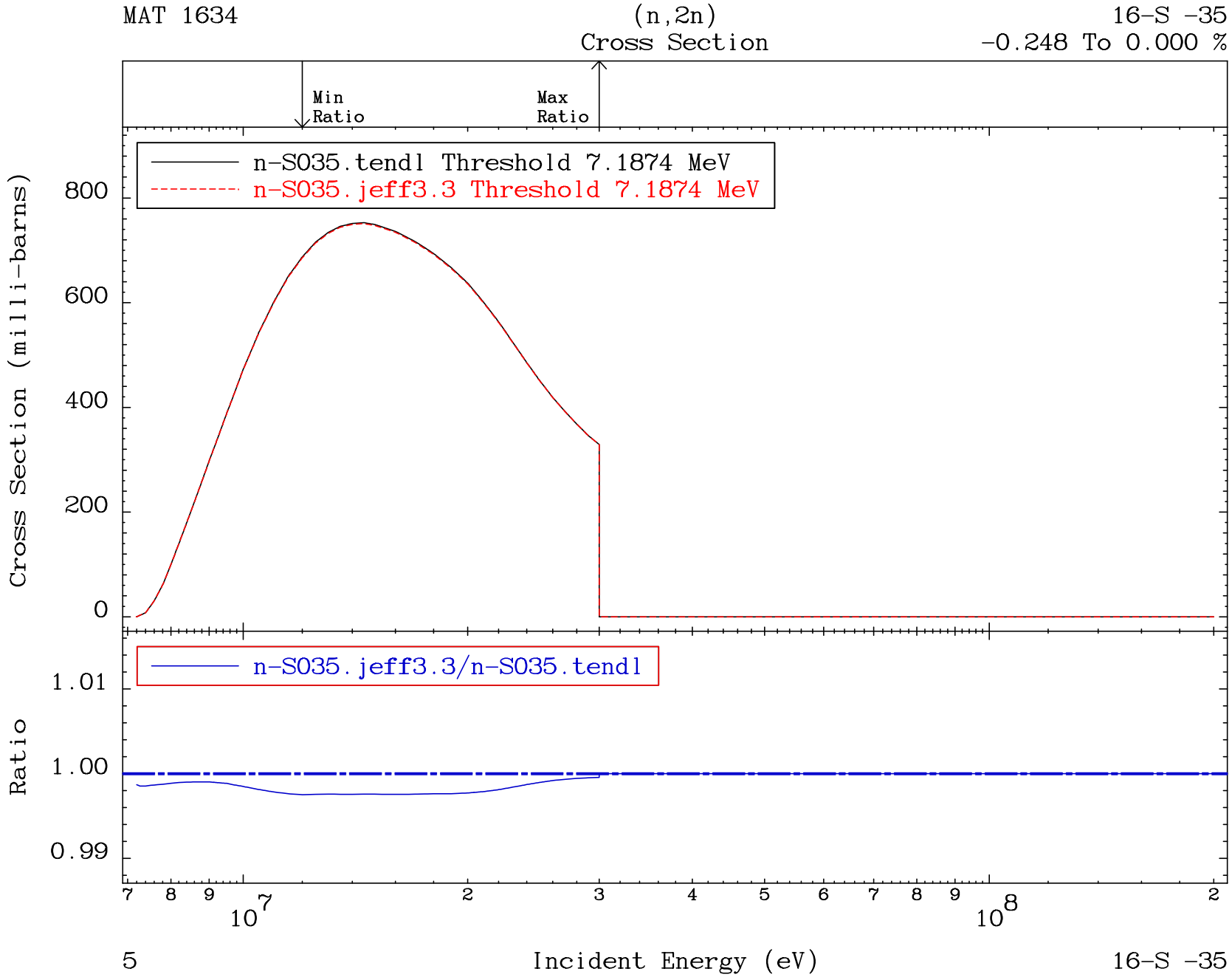
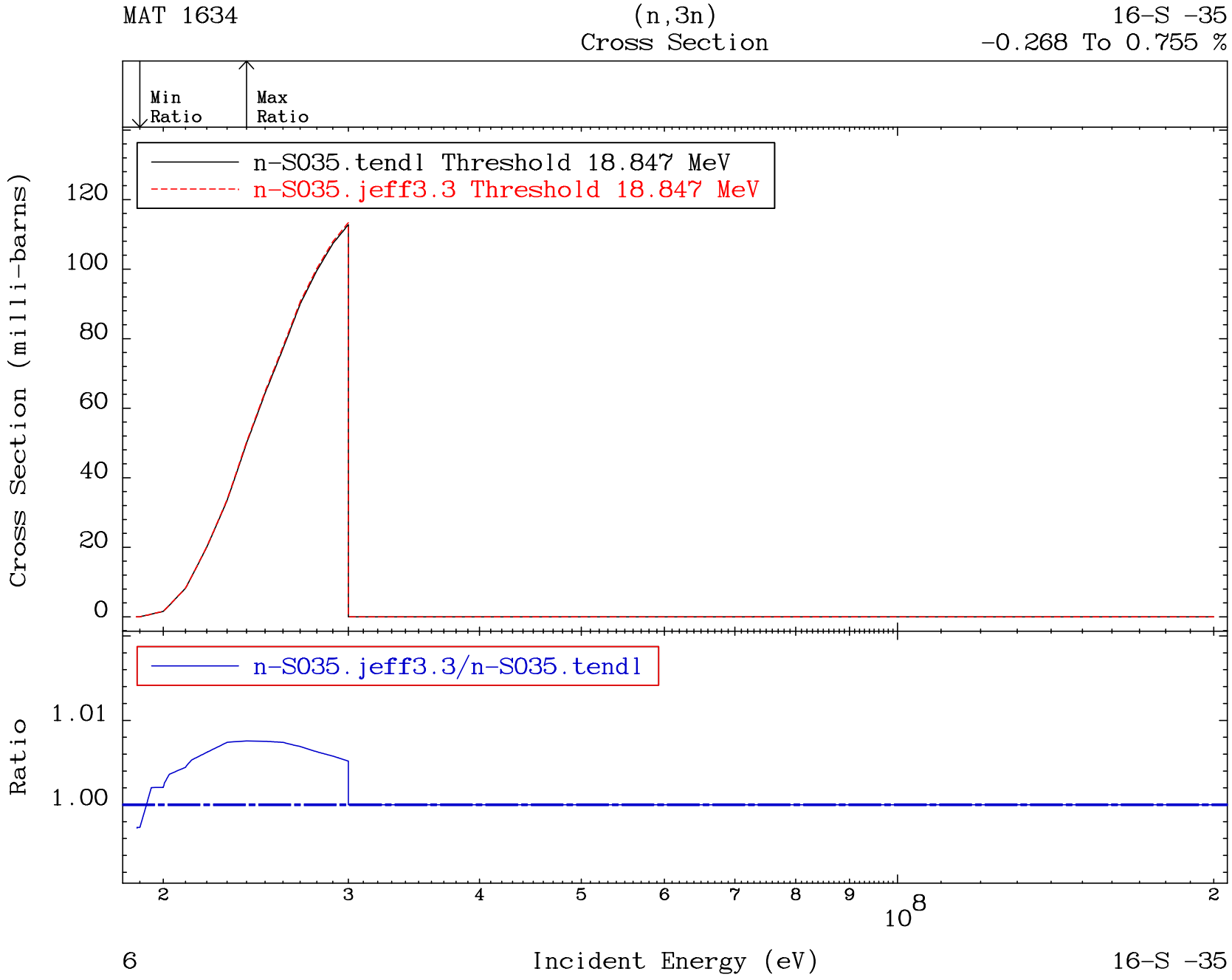

MAT 1634
Total
Cross Section
16-S -35
-99.69 To 7409. %
Max
Ratio
Min
Ratio
n-S035.tendl
n-S035.jeff3.3
Cross Section (barns)
n-S035.jeff3.3/n-S035.tendl
Ratio
Incident Energy (eV)
1
16-S -35

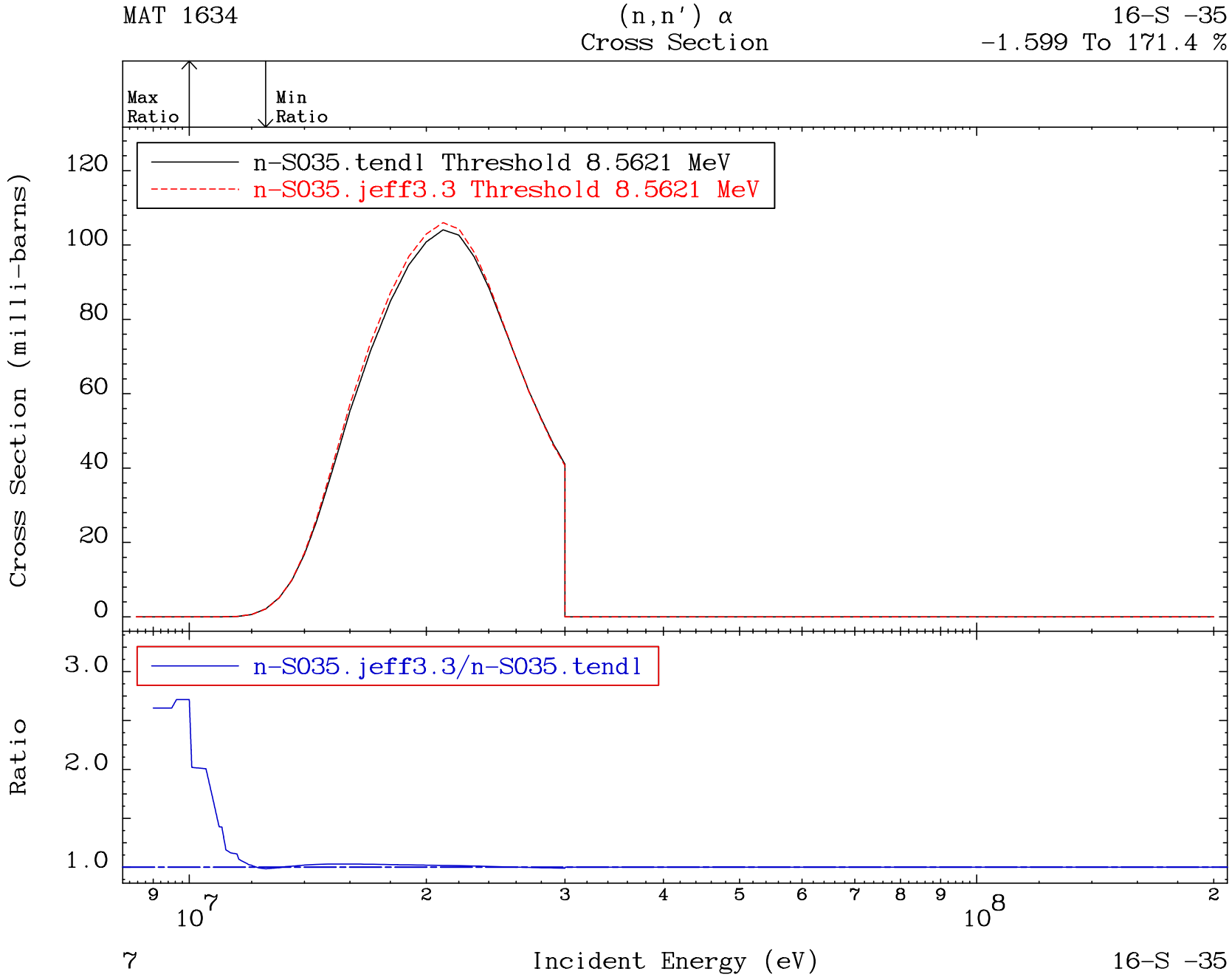

MAT 1634
Elastic
Cross Section
16-S -35
-99.69 To 9529. %
Max
Ratio
Min
Ratio
n-S035.tendl
n-S035.jeff3.3
Cross Section (barns)
n-S035.jeff3.3/n-S035.tendl
Ratio
Incident Energy (eV)
2
16-S -35

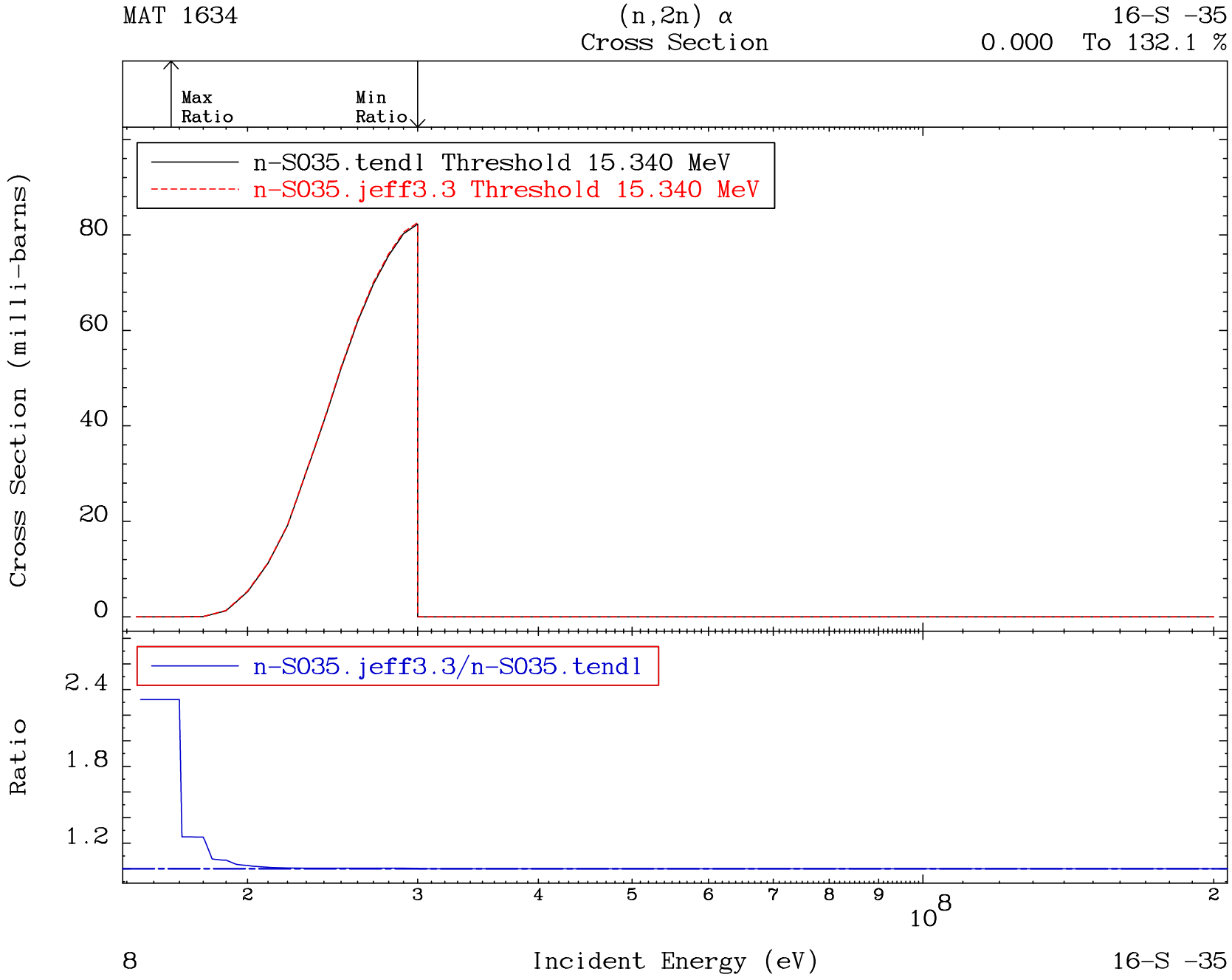

MAT 1634
Inelastic
Cross Section
16-S -35
-0.176 To 0.026 %
Min
Ratio
Max
Ratio
n-S035.tendl Threshold 1.6177 MeV
n-S035.jeff3.3 Threshold 1.6177 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
16-S -35

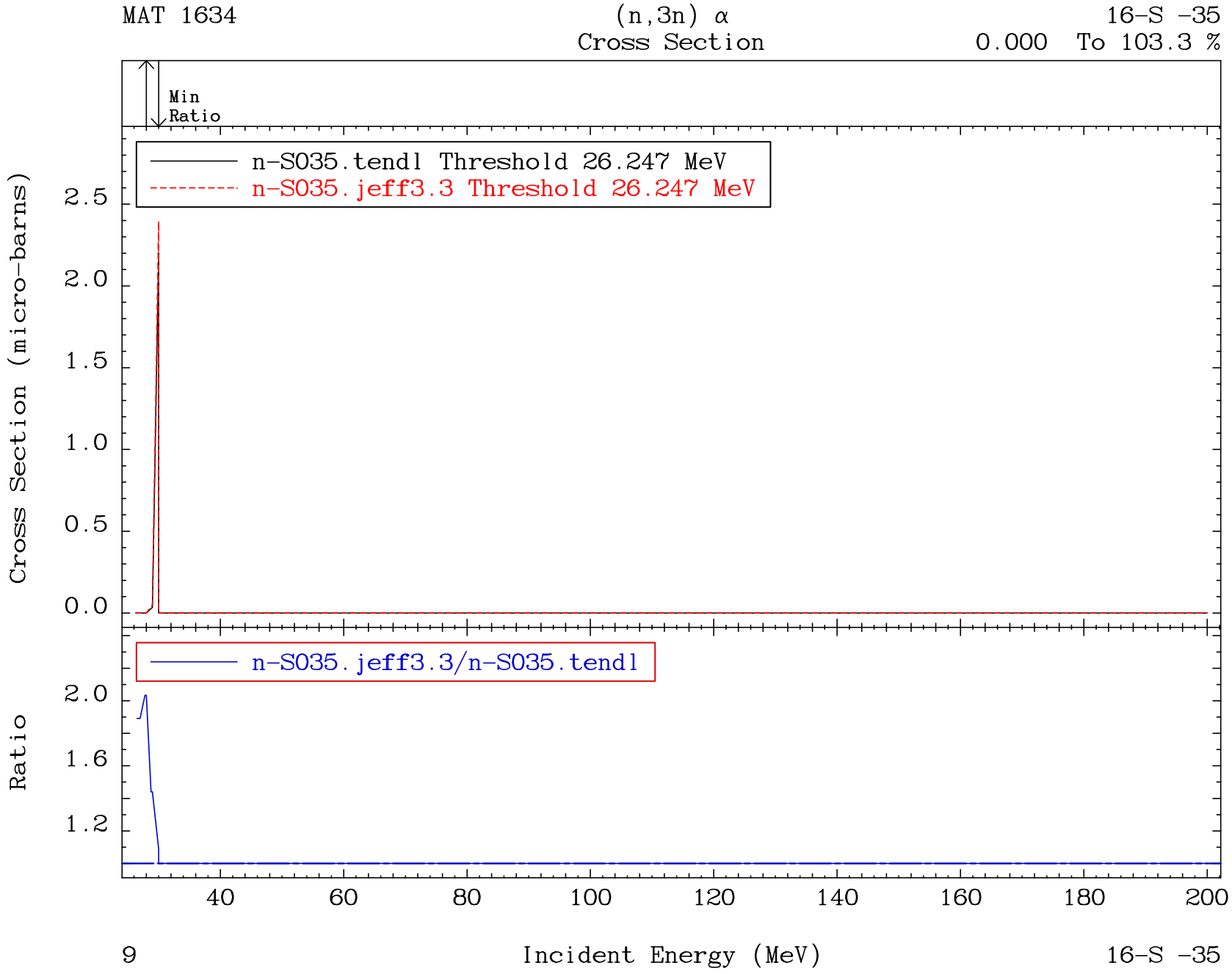

MAT 1634
(n,2n) d
Cross Section
16-S -35
-0.389 To 0.000 %
Max
Ratio
n-S035.tendl Threshold 26.491 MeV
n-S035.jeff3.3 Threshold 26.491 MeV
Cross Section (micro-barns)
400
300
200
100
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
16-S -35

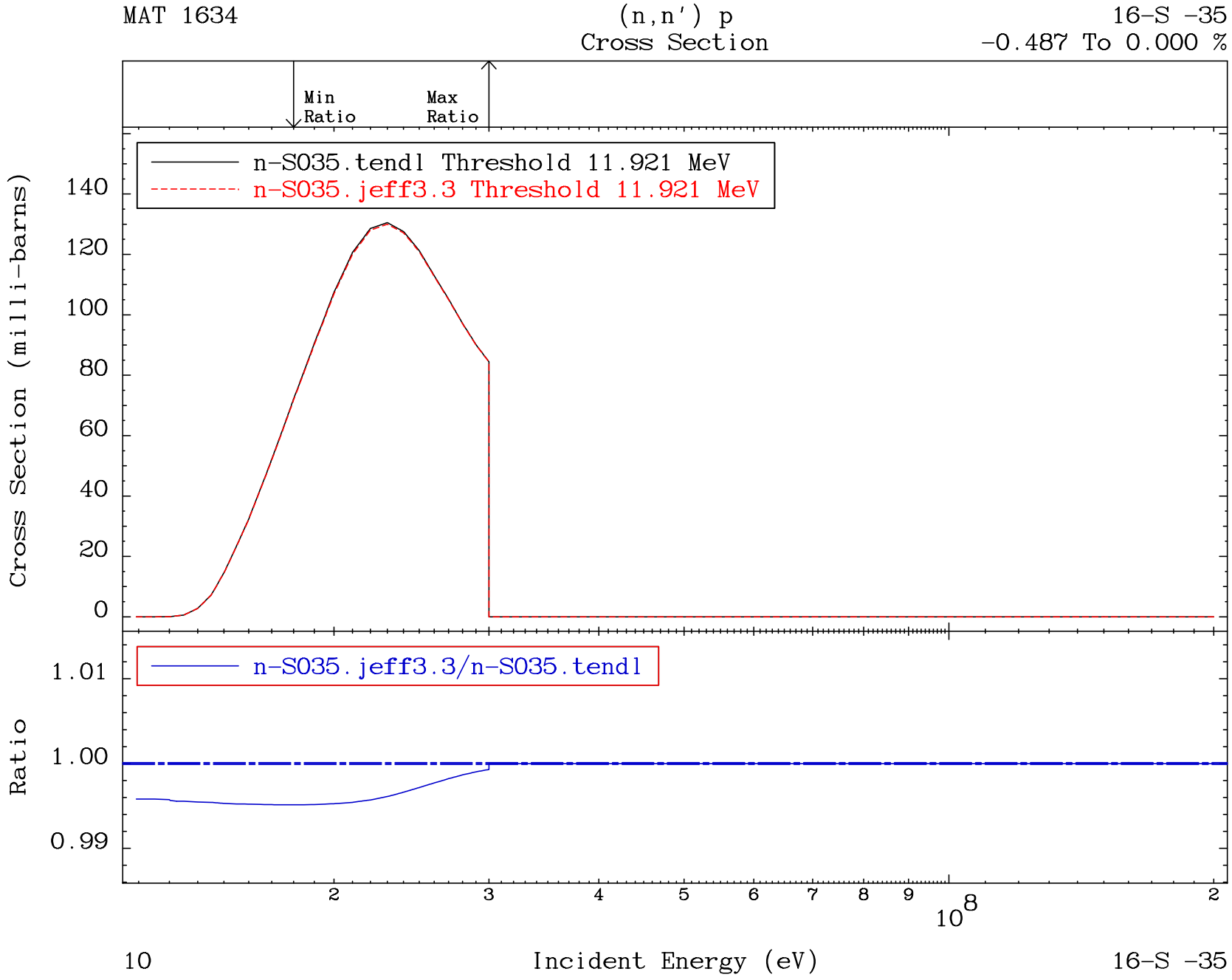

MAT 1634
(n,2n)
Cross Section
16-S -35
-0.248 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 7.1874 MeV
n-S035.jeff3.3 Threshold 7.1874 MeV
Cross Section (milli-barns)
800
600
400
200
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
16-S -35

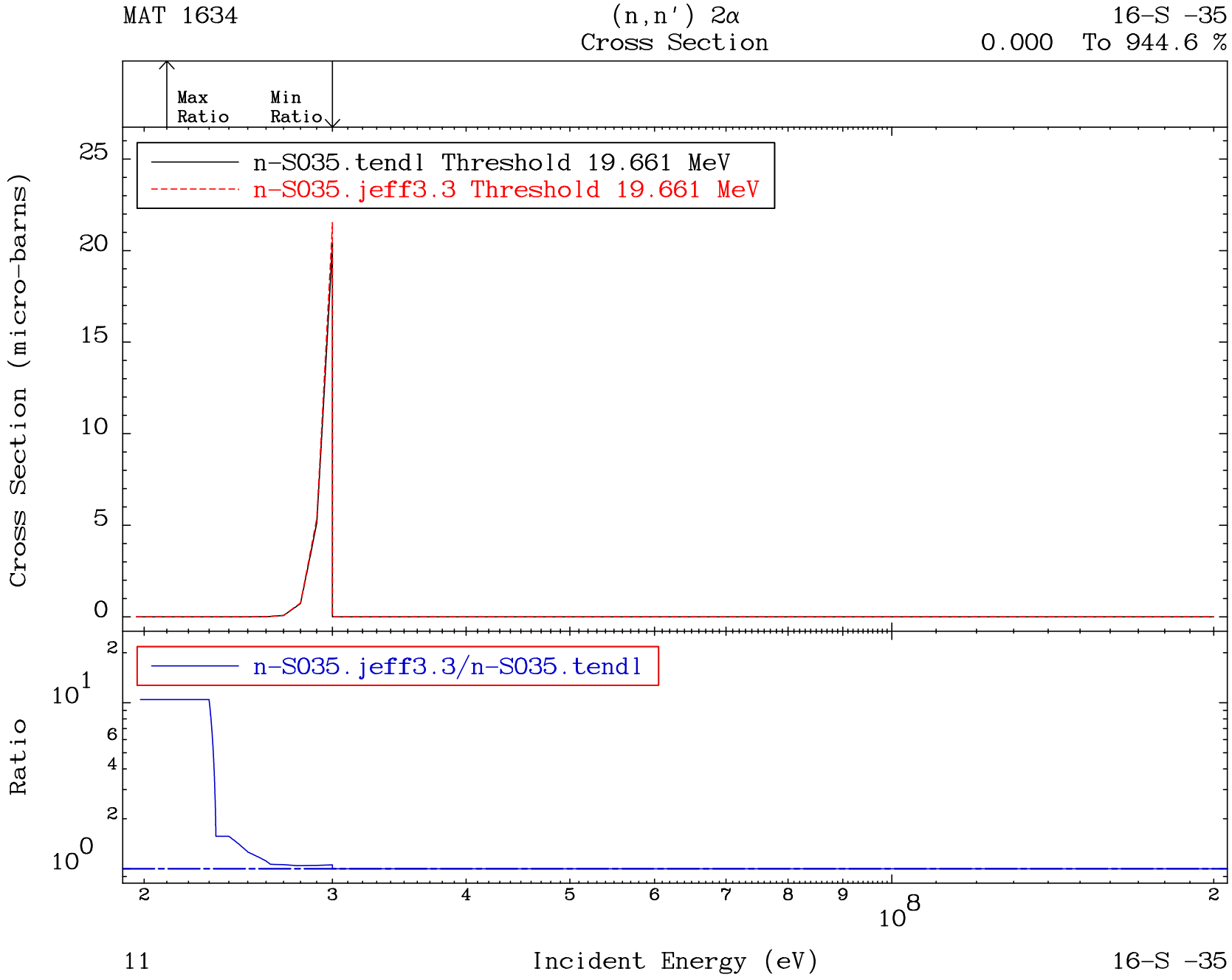

MAT 1634
(n,3n)
Cross Section
16-S -35
-0.268 To 0.755 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 18.847 MeV
n-S035.jeff3.3 Threshold 18.847 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
16-S -35

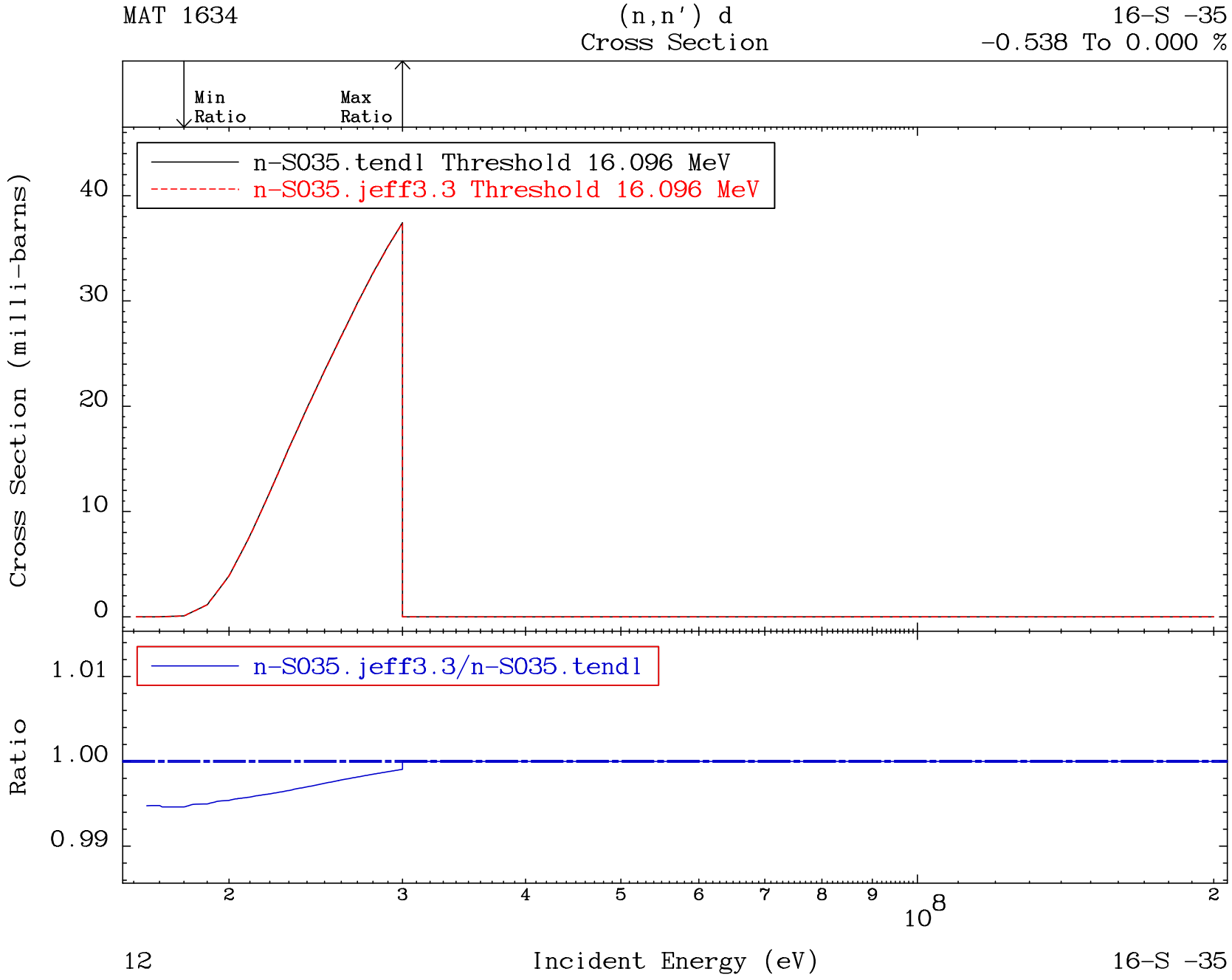

MAT 1634
(n,n') α
Cross Section
16-S -35
-1.599 To 171.4 %
Max Ratio
Min Ratio
n-S035.tendl Threshold 8.5621 MeV
n-S035.jeff3.3 Threshold 8.5621 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-S035.jeff3.3/n-S035.tendl
Ratio
3.0
2.0
1.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
16-S -35

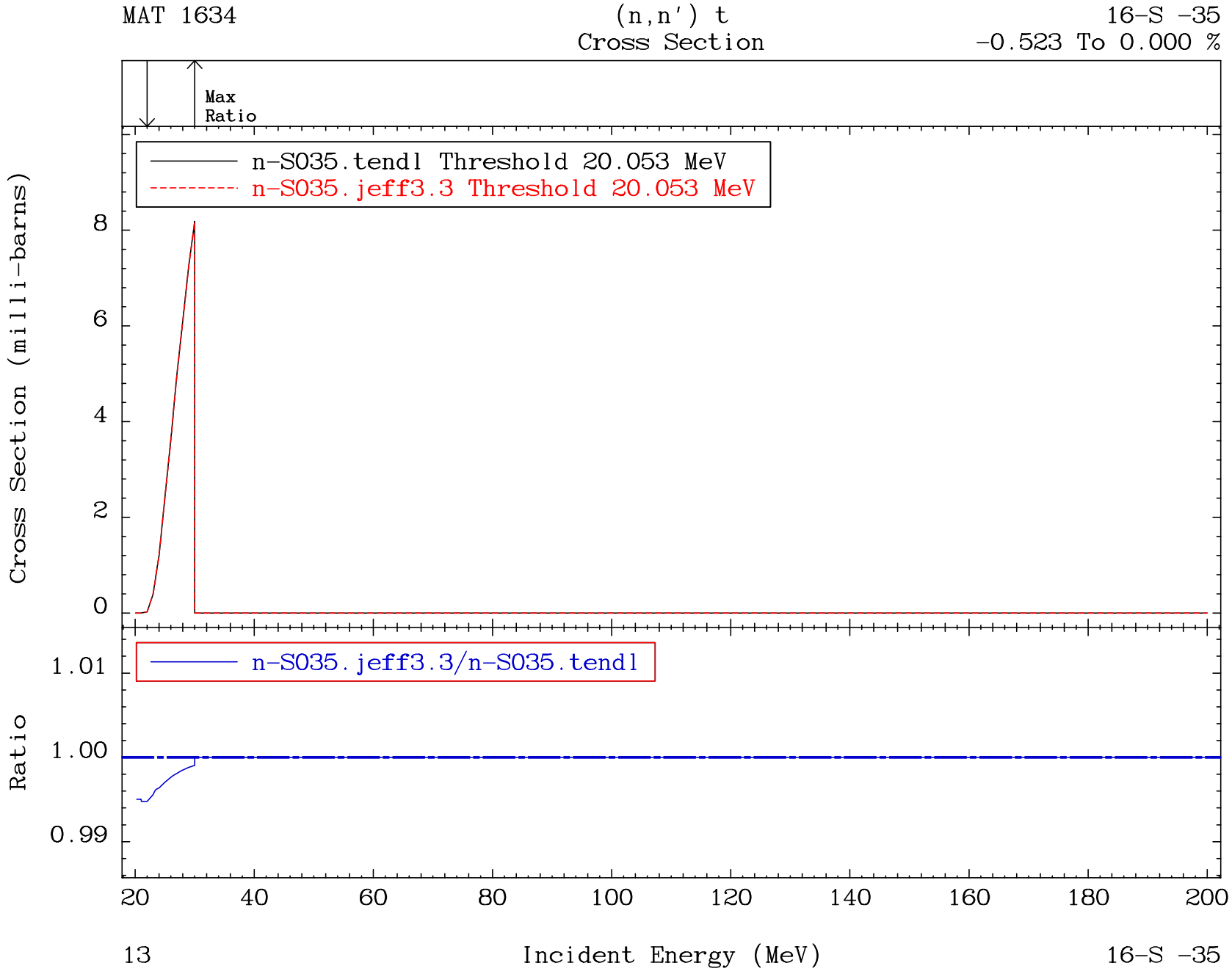

MAT 1634
(n,2n) α
Cross Section
16-S -35
0.000 To 132.1 %
Max Ratio
Min Ratio
n-S035.tendl Threshold 15.340 MeV
n-S035.jeff3.3 Threshold 15.340 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-S035.jeff3.3/n-S035.tendl
Ratio
2.4
1.8
1.2
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
16-S -35

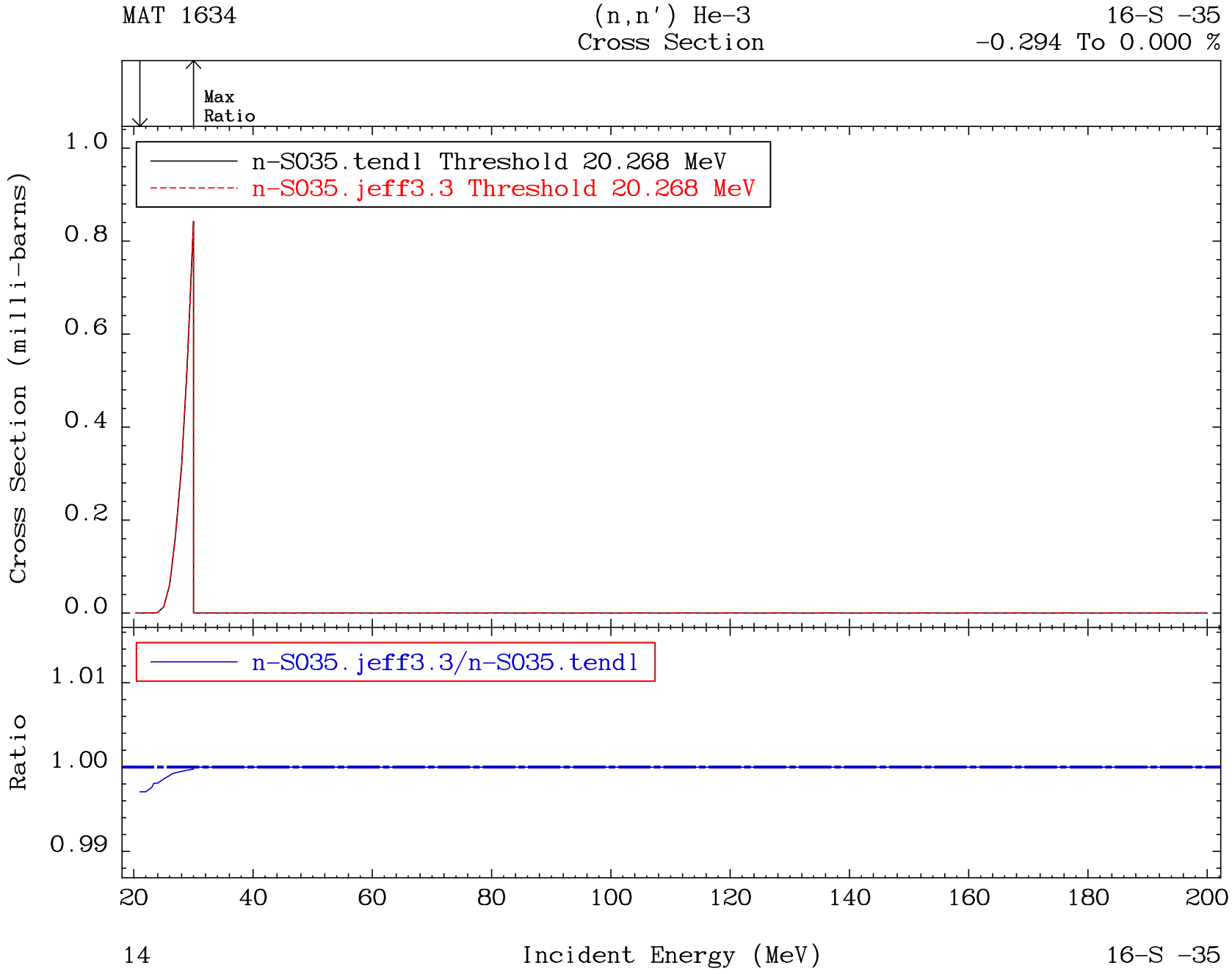

MAT 1634
(n,3n) α
Cross Section
16-S -35
0.000 To 103.3 %
Min
Ratio
n-S035.tendl Threshold 26.247 MeV
n-S035.jeff3.3 Threshold 26.247 MeV
Cross Section (micro-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-S035.jeff3.3/n-S035.tendl
Ratio
2.0
1.6
1.2
40
60
80
100
120
140
160
180
200
9
Incident Energy (MeV)
16-S -35

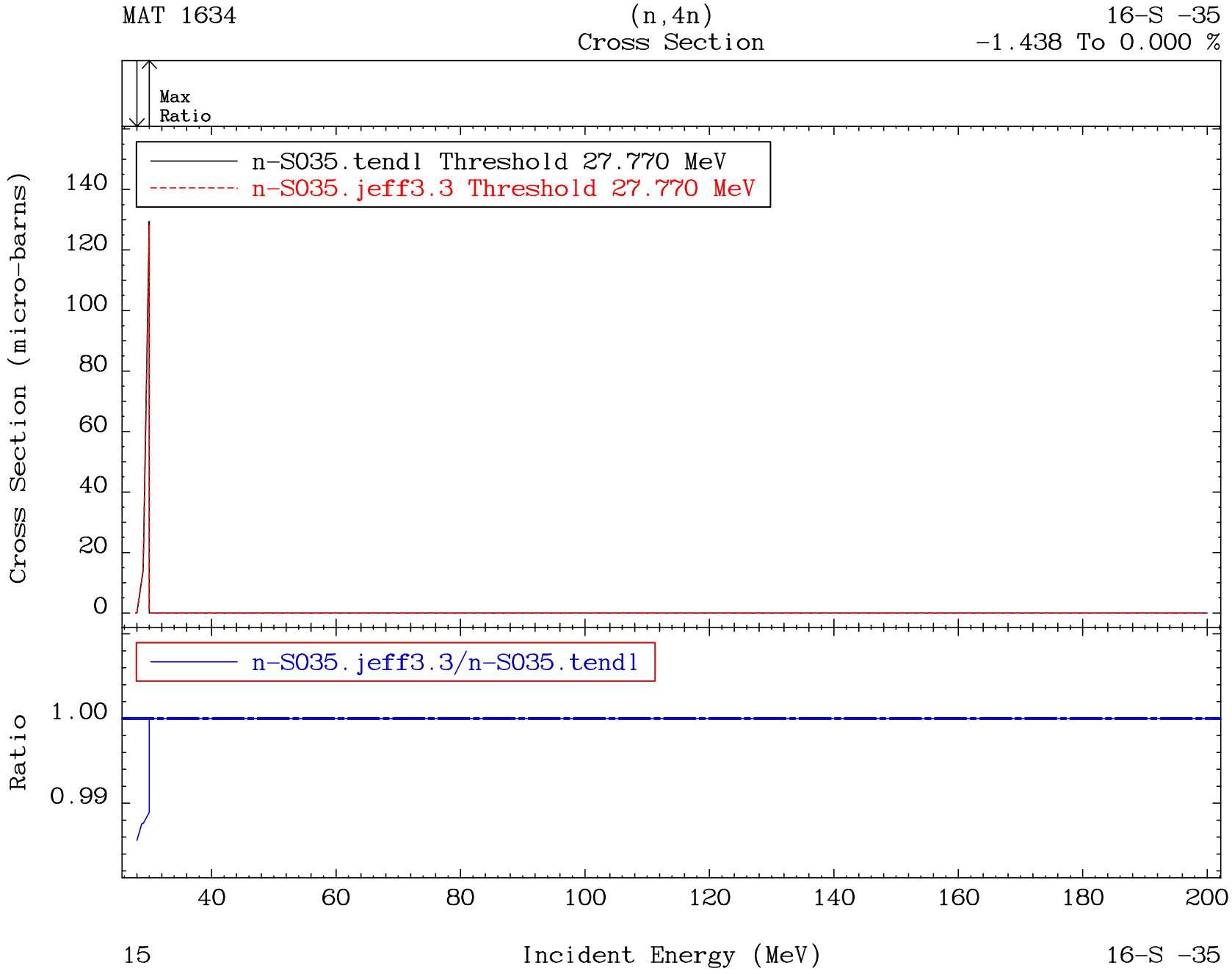

MAT 1634
(n,n') p
Cross Section
16-S -35
-0.487 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 11.921 MeV
n-S035.jeff3.3 Threshold 11.921 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
16-S -35

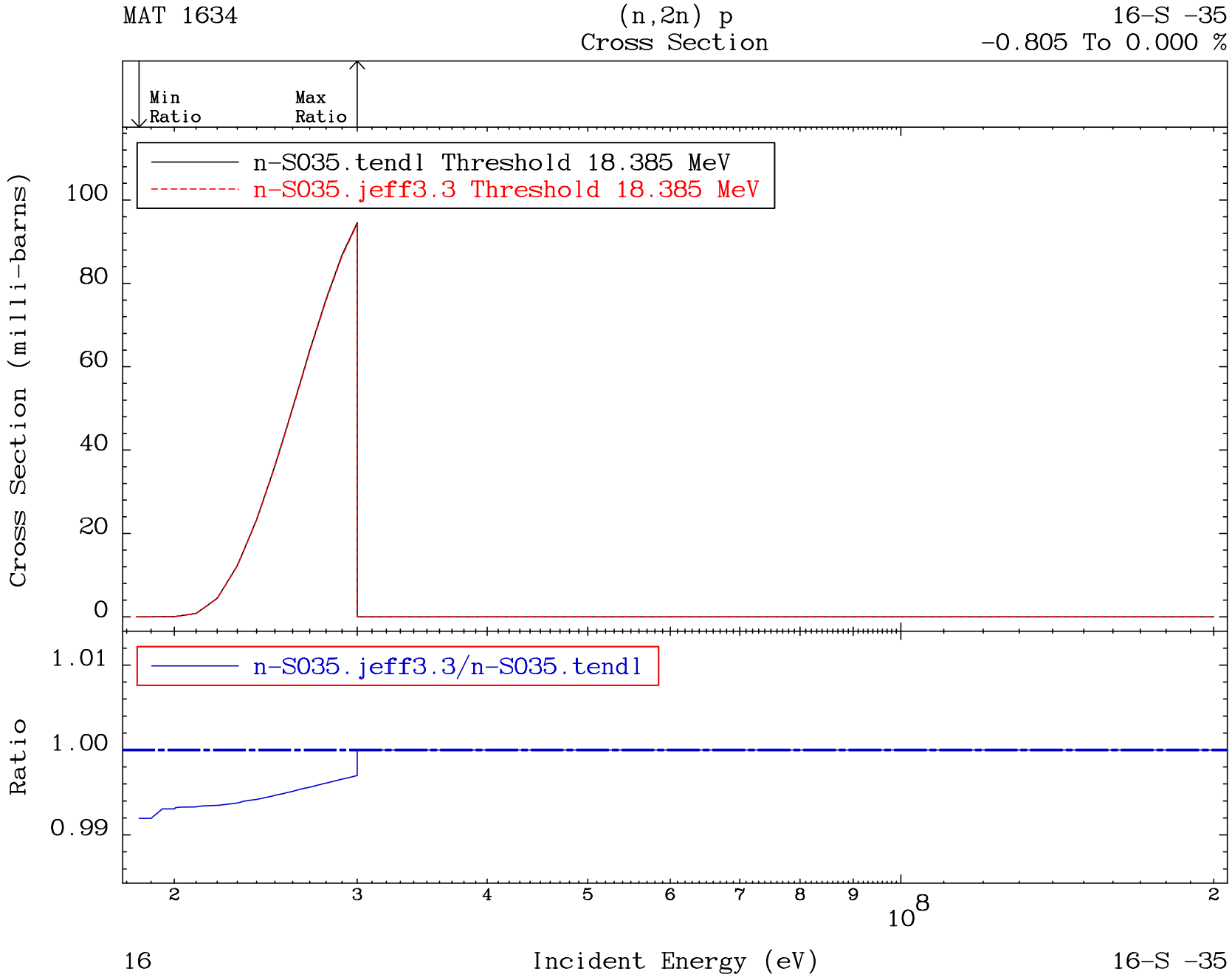

MAT 1634
(n,n') 2α
Cross Section
16-S -35
0.000 To 944.6 %
Max Ratio
Min Ratio
n-S035.tendl Threshold 19.661 MeV
n-S035.jeff3.3 Threshold 19.661 MeV
Cross Section (micro-barns)
n-S035.jeff3.3/n-S035.tendl
Ratio
Incident Energy (eV)
11
16-S -35

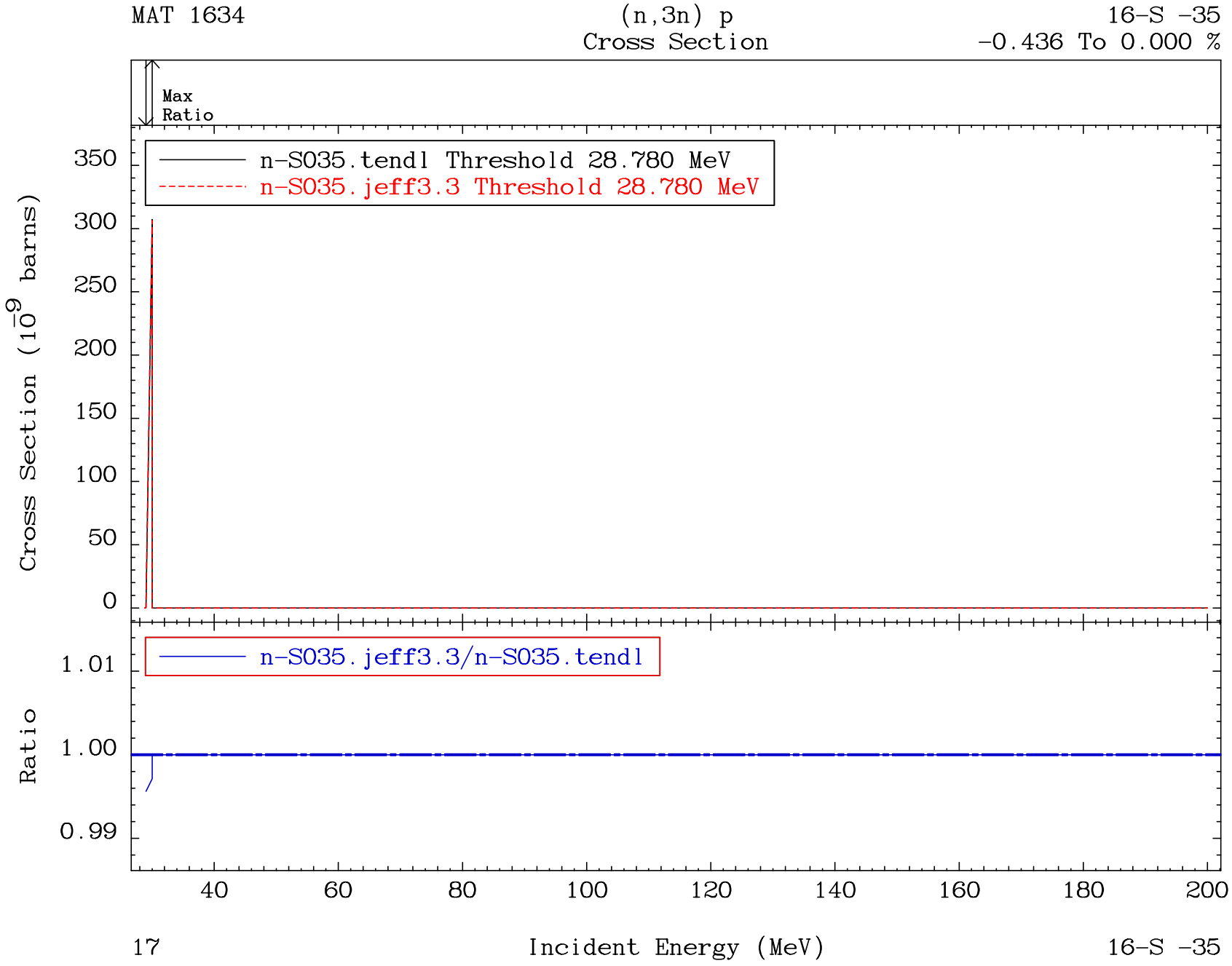

MAT 1634
(n,n') d
Cross Section
16-S -35
-0.538 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 16.096 MeV
n-S035.jeff3.3 Threshold 16.096 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
16-S -35

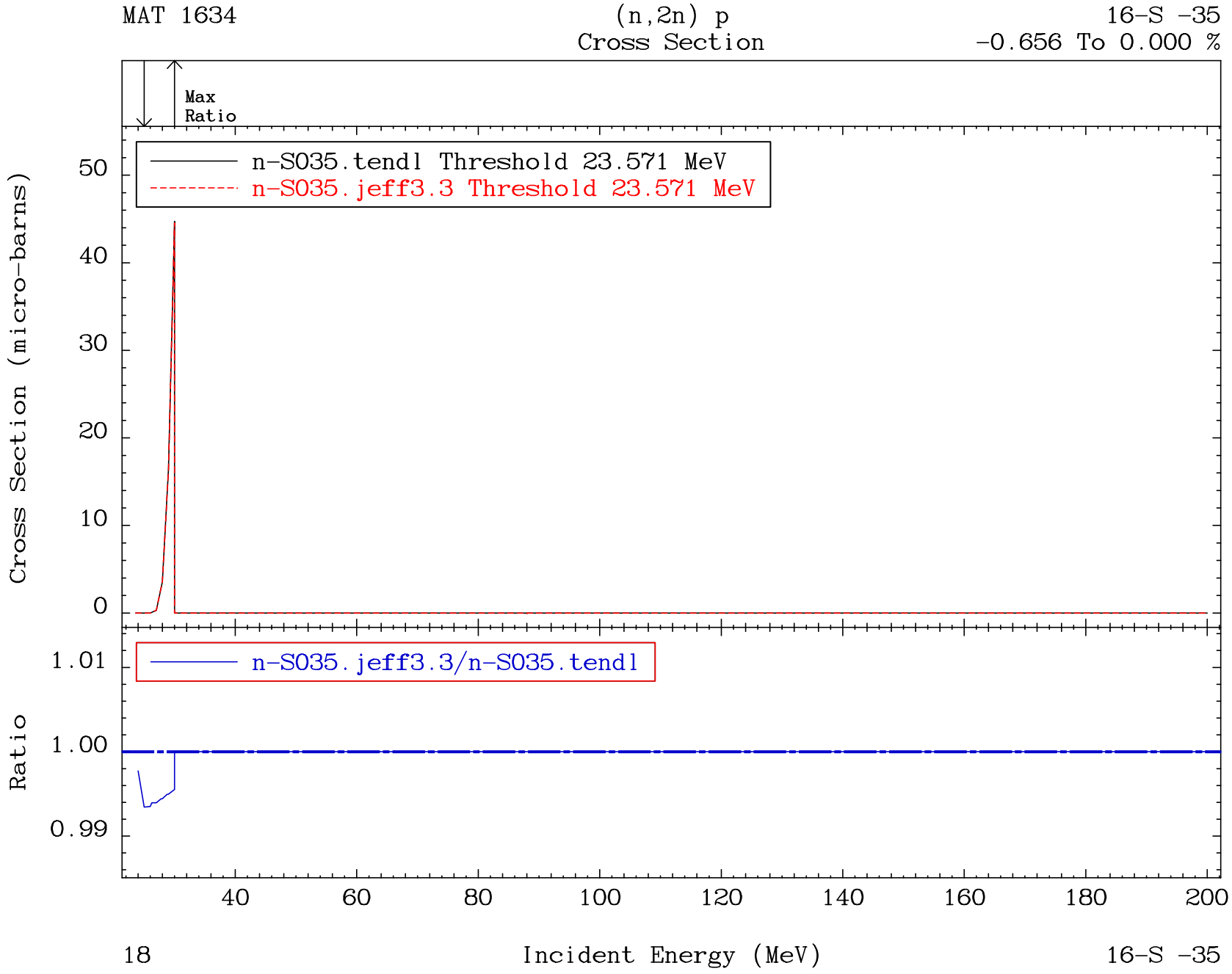

MAT 1634
(n,n') t
Cross Section
16-S -35
-0.523 To 0.000 %
Max
Ratio
n-S035.tendl Threshold 20.053 MeV
n-S035.jeff3.3 Threshold 20.053 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-S035.jeff3.3/n-S035.tendl
Ratio
0.99
1.00
1.01
20
40
60
80
100
120
140
160
180
200
13
Incident Energy (MeV)
16-S -35

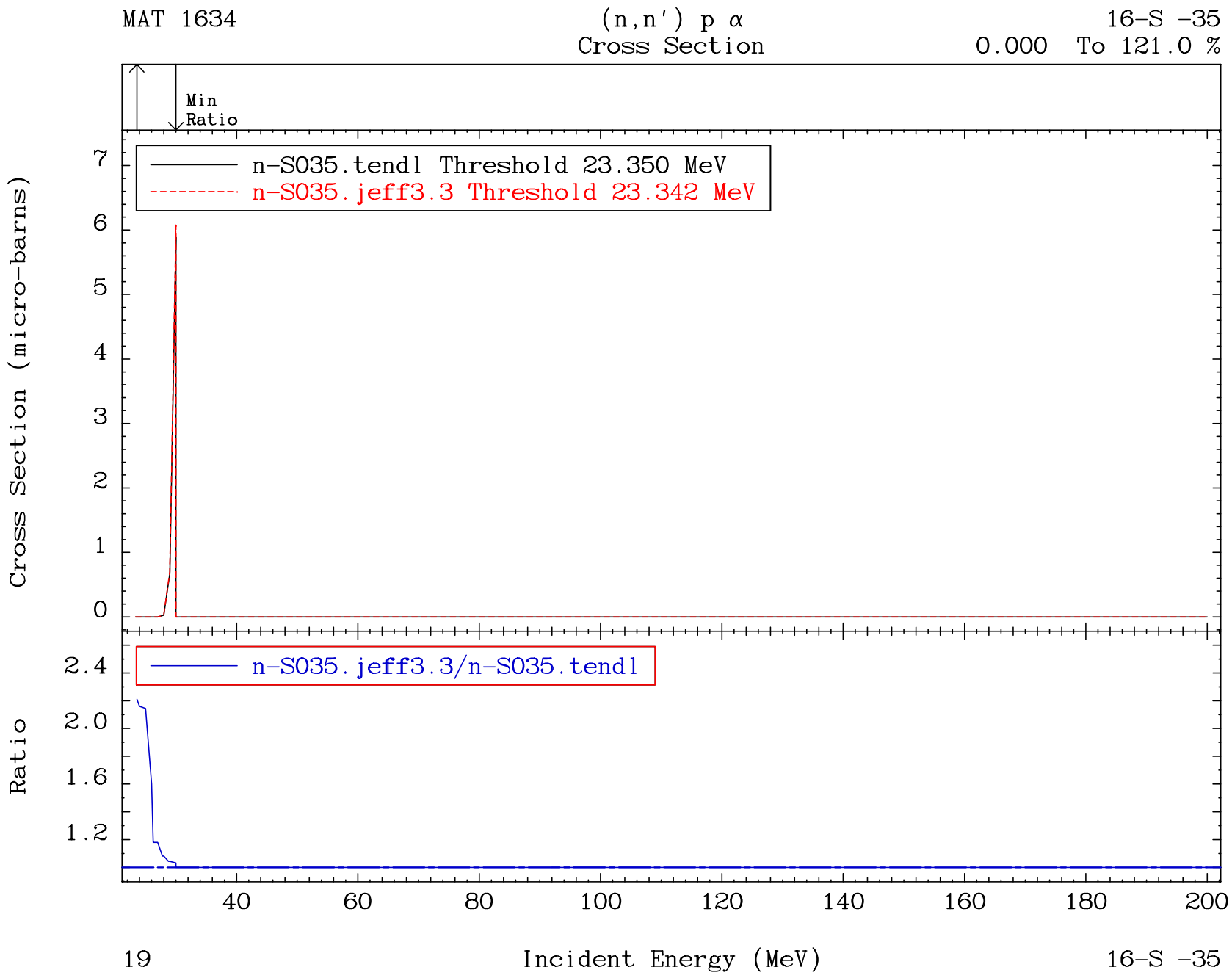

MAT 1634
(n,n') He-3
Cross Section
16-S -35
-0.294 To 0.000 %
Max
Ratio
n-S035.tendl Threshold 20.268 MeV
n-S035.jeff3.3 Threshold 20.268 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
20
40
60
80
100
120
140
160
180
200
14
Incident Energy (MeV)
16-S -35

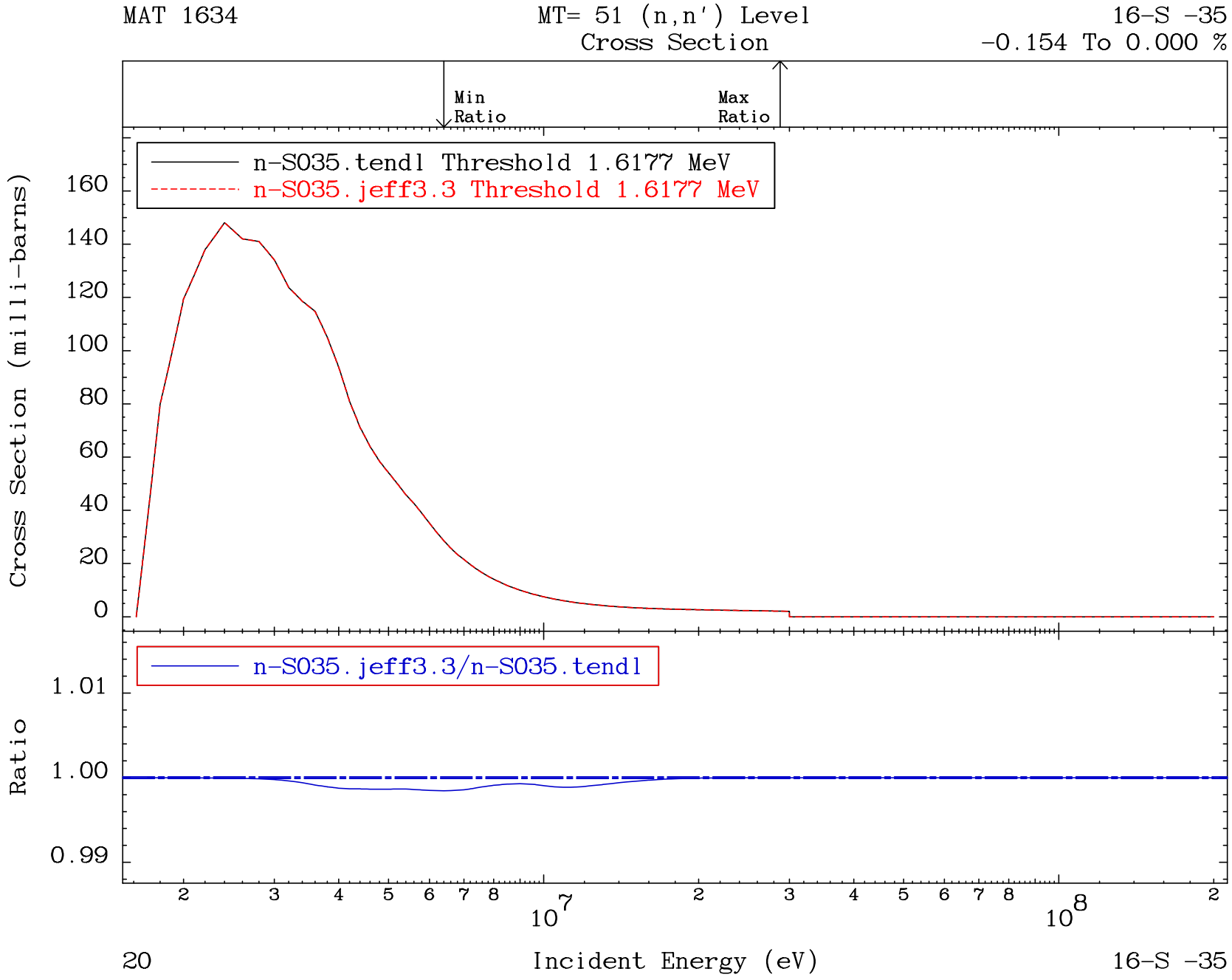

MAT 1634
(n,4n)
Cross Section
16-S -35
-1.438 To 0.000 %
Max
Ratio
n-S035.tendl Threshold 27.770 MeV
n-S035.jeff3.3 Threshold 27.770 MeV
Cross Section (micro-barns)
140
120
100
80
60
40
20
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.00
0.99
40
60
80
100
120
140
160
180
200
15
Incident Energy (MeV)
16-S -35

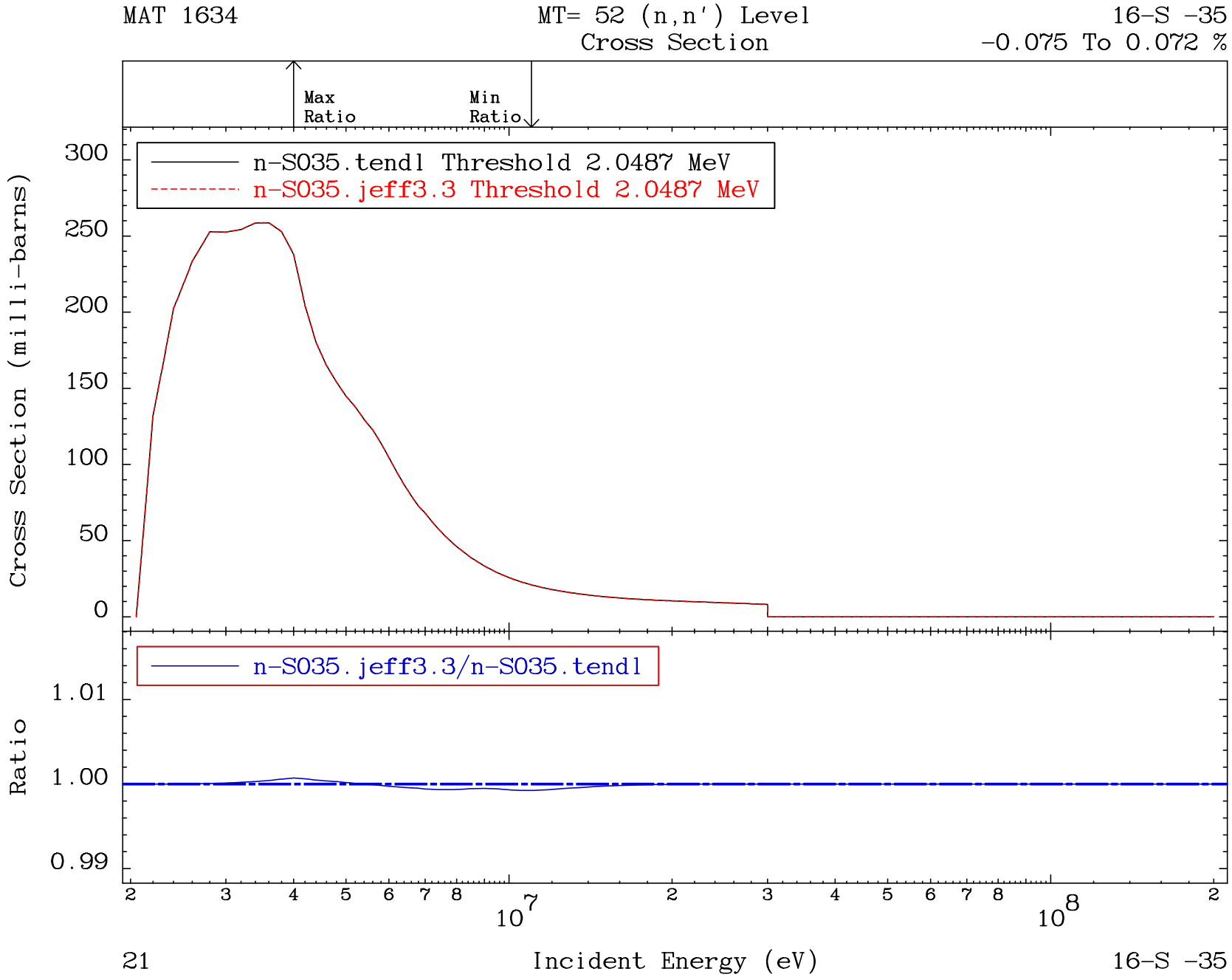

MAT 1634
(n,2n) p
Cross Section
16-S -35
-0.805 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 18.385 MeV
n-S035.jeff3.3 Threshold 18.385 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
2
10^8
16
Incident Energy (eV)
16-S -35

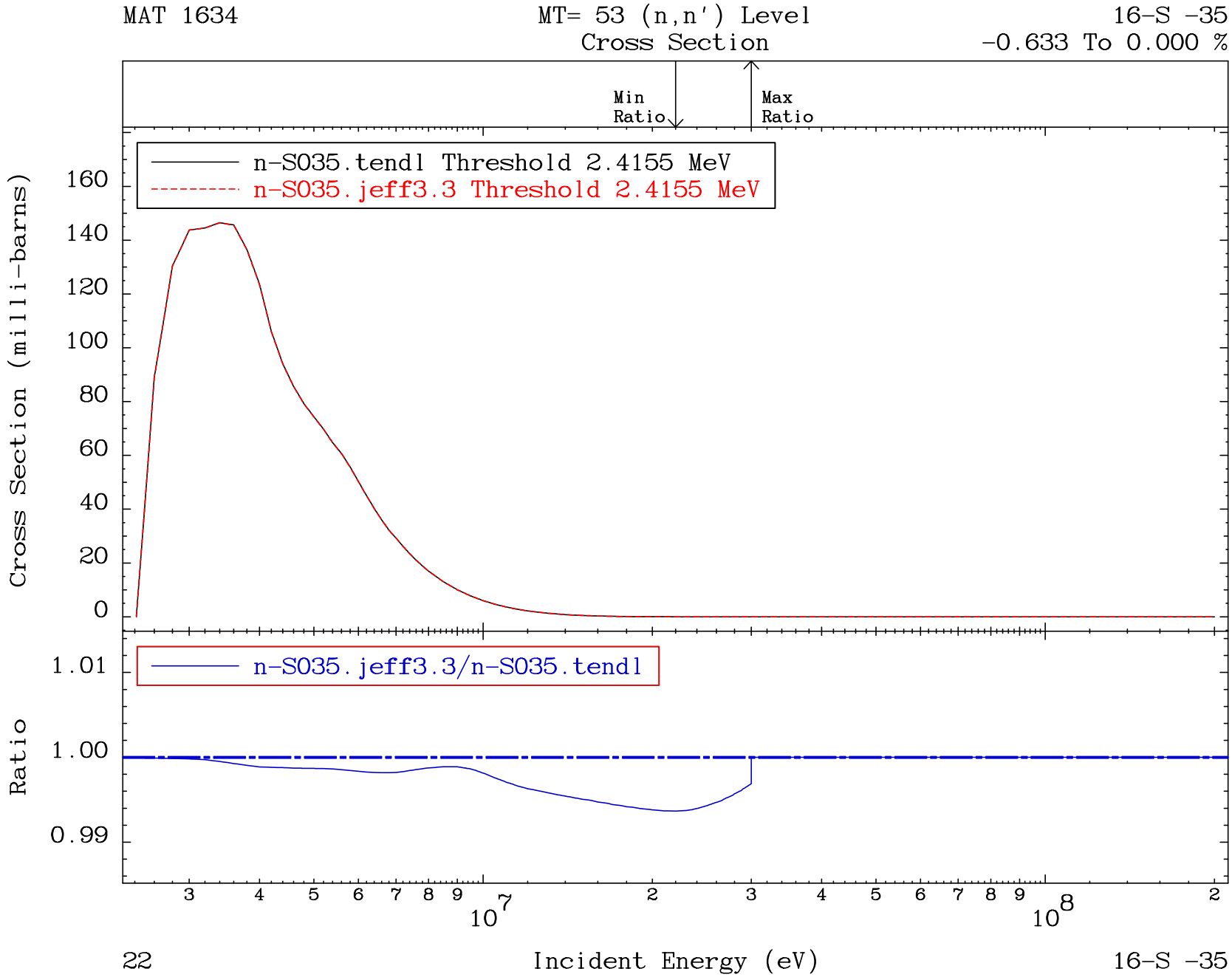

MAT 1634
(n,3n) p
Cross Section
16-S -35
-0.436 To 0.000 %
Max
Ratio
n-S035.tendl Threshold 28.780 MeV
n-S035.jeff3.3 Threshold 28.780 MeV
Cross Section (10^{-9} barns)
350
300
250
200
150
100
50
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
17
Incident Energy (MeV)
16-S -35

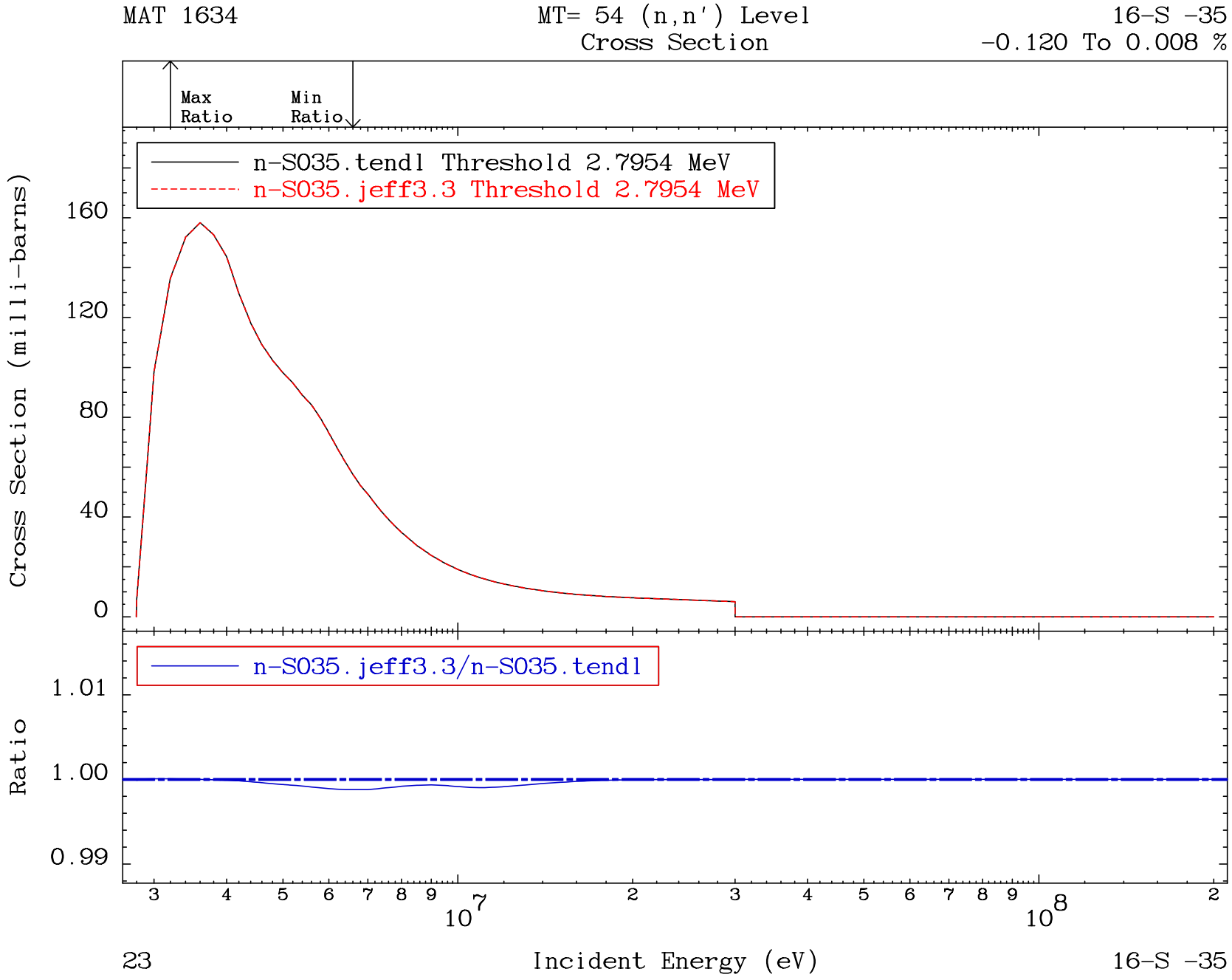

MAT 1634
(n,2n) p
Cross Section
16-S -35
-0.656 To 0.000 %
Max
Ratio
n-S035.tendl Threshold 23.571 MeV
n-S035.jeff3.3 Threshold 23.571 MeV
Cross Section (micro-barns)
50
40
30
20
10
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
18
Incident Energy (MeV)
16-S -35

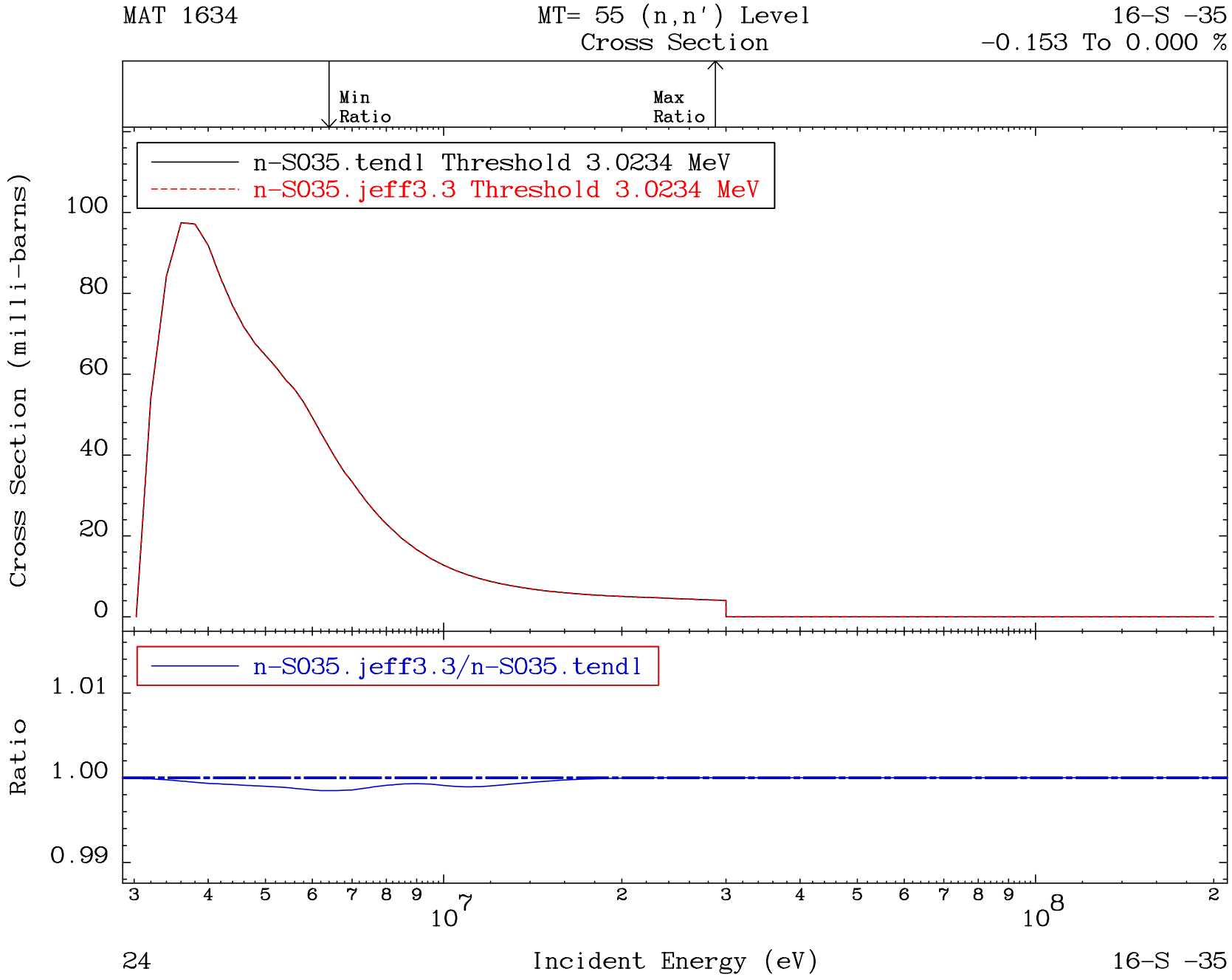

MAT 1634
(n,n') p α
Cross Section
16-S -35
0.000 To 121.0 %
Min
Ratio
n-S035.tendl Threshold 23.350 MeV
n-S035.jeff3.3 Threshold 23.342 MeV
Cross Section (micro-barns)
0
1
2
3
4
5
6
7
n-S035.jeff3.3/n-S035.tendl
Ratio
1.2
1.6
2.0
2.4
40
60
80
100
120
140
160
180
200
19
Incident Energy (MeV)
16-S -35

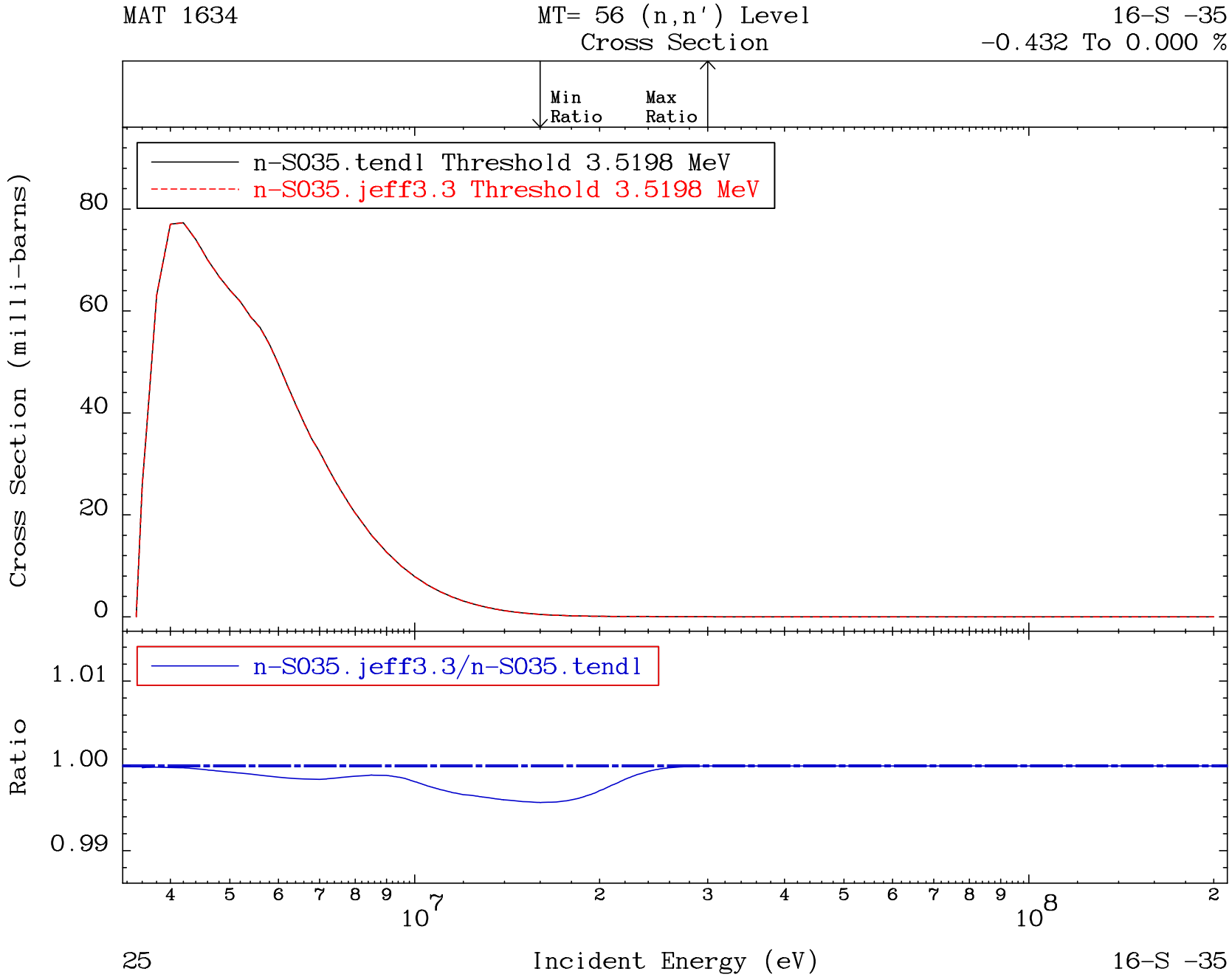

MAT 1634
MT= 51 (n,n') Level
Cross Section
16-S -35
-0.154 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 1.6177 MeV
n-S035.jeff3.3 Threshold 1.6177 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
10^8
20
Incident Energy (eV)
16-S -35

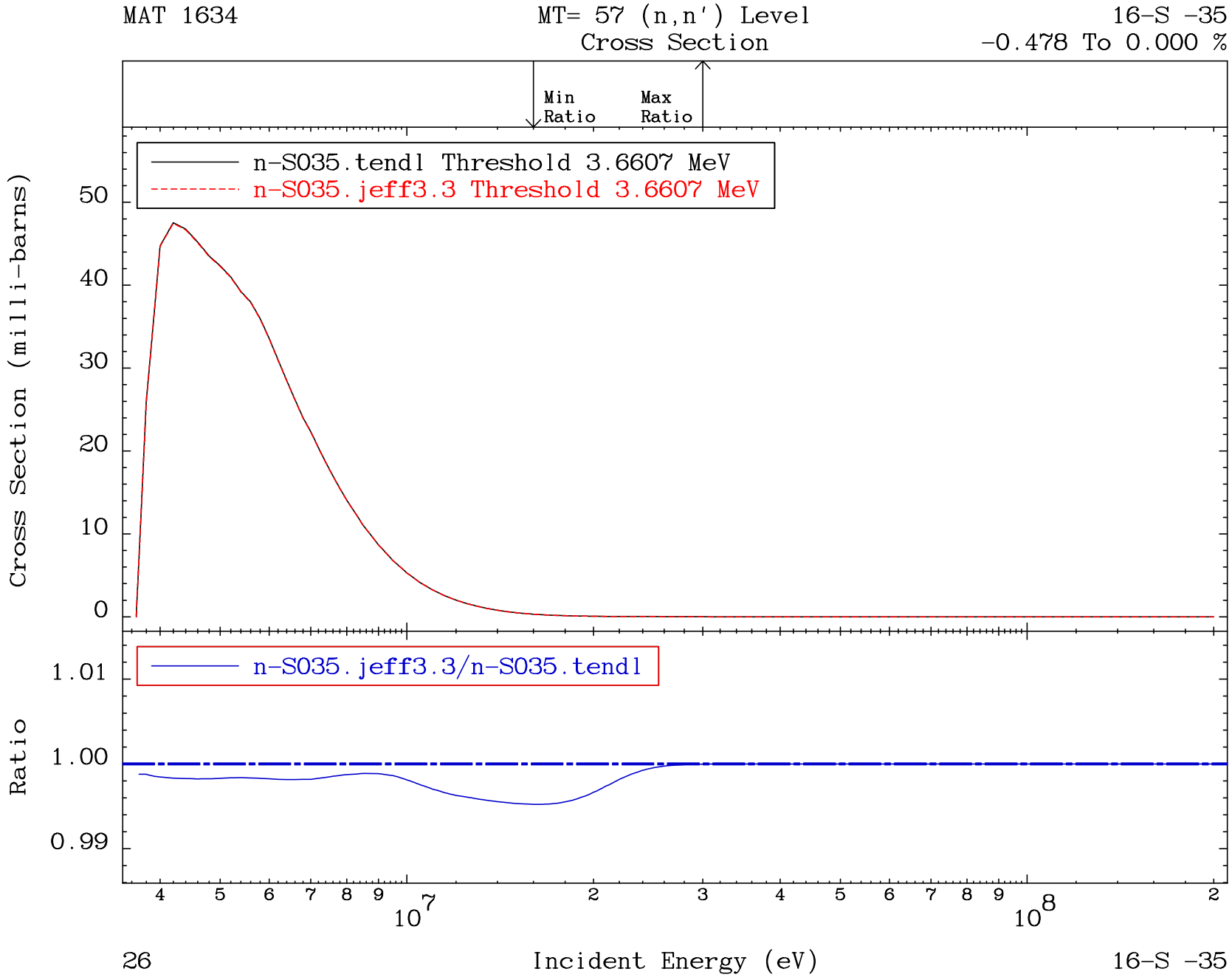

MAT 1634
MT= 52 (n,n') Level
Cross Section
16-S -35
-0.075 To 0.072 %
Max Ratio
Min Ratio
n-S035.tendl Threshold 2.0487 MeV
n-S035.jeff3.3 Threshold 2.0487 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
10^8
21
Incident Energy (eV)
16-S -35

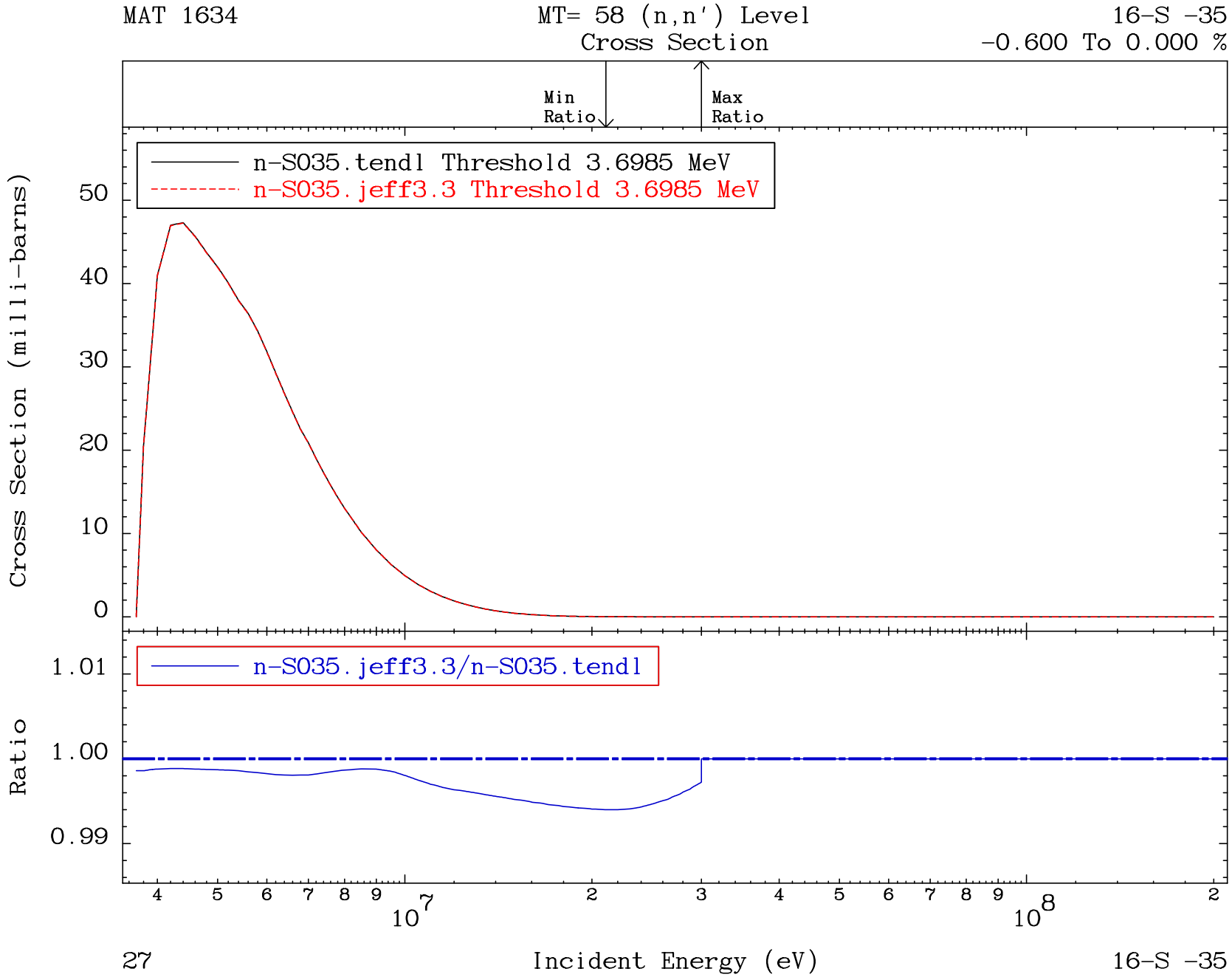

MAT 1634
MT= 53 (n,n') Level
Cross Section
16-S -35
-0.633 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 2.4155 MeV
n-S035.jeff3.3 Threshold 2.4155 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
16-S -35

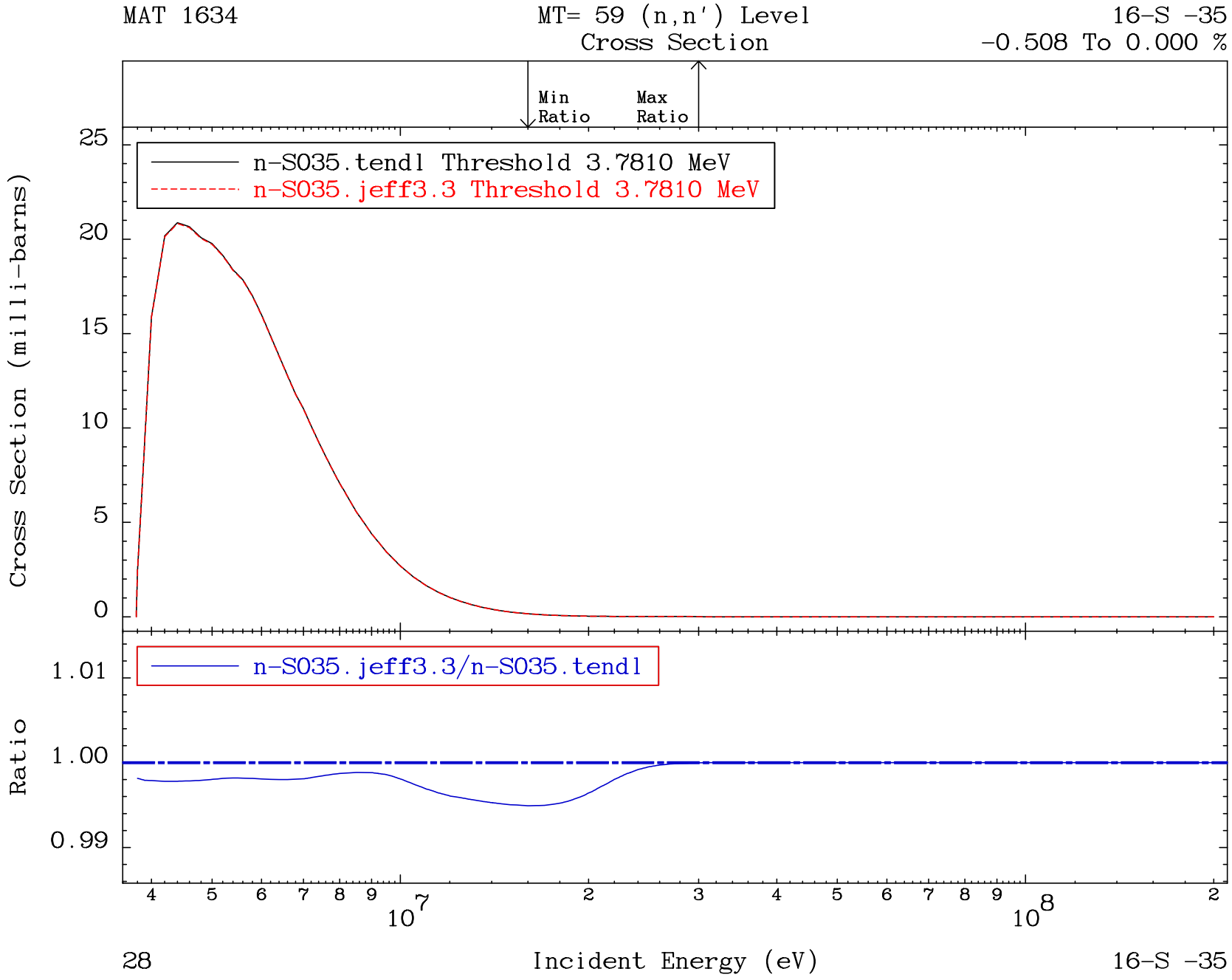

MAT 1634
MT= 54 (n,n') Level
Cross Section
16-S -35
-0.120 To 0.008 %
Max Ratio
Min Ratio
n-S035.tendl Threshold 2.7954 MeV
n-S035.jeff3.3 Threshold 2.7954 MeV
Cross Section (milli-barns)
160
120
80
40
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
16-S -35

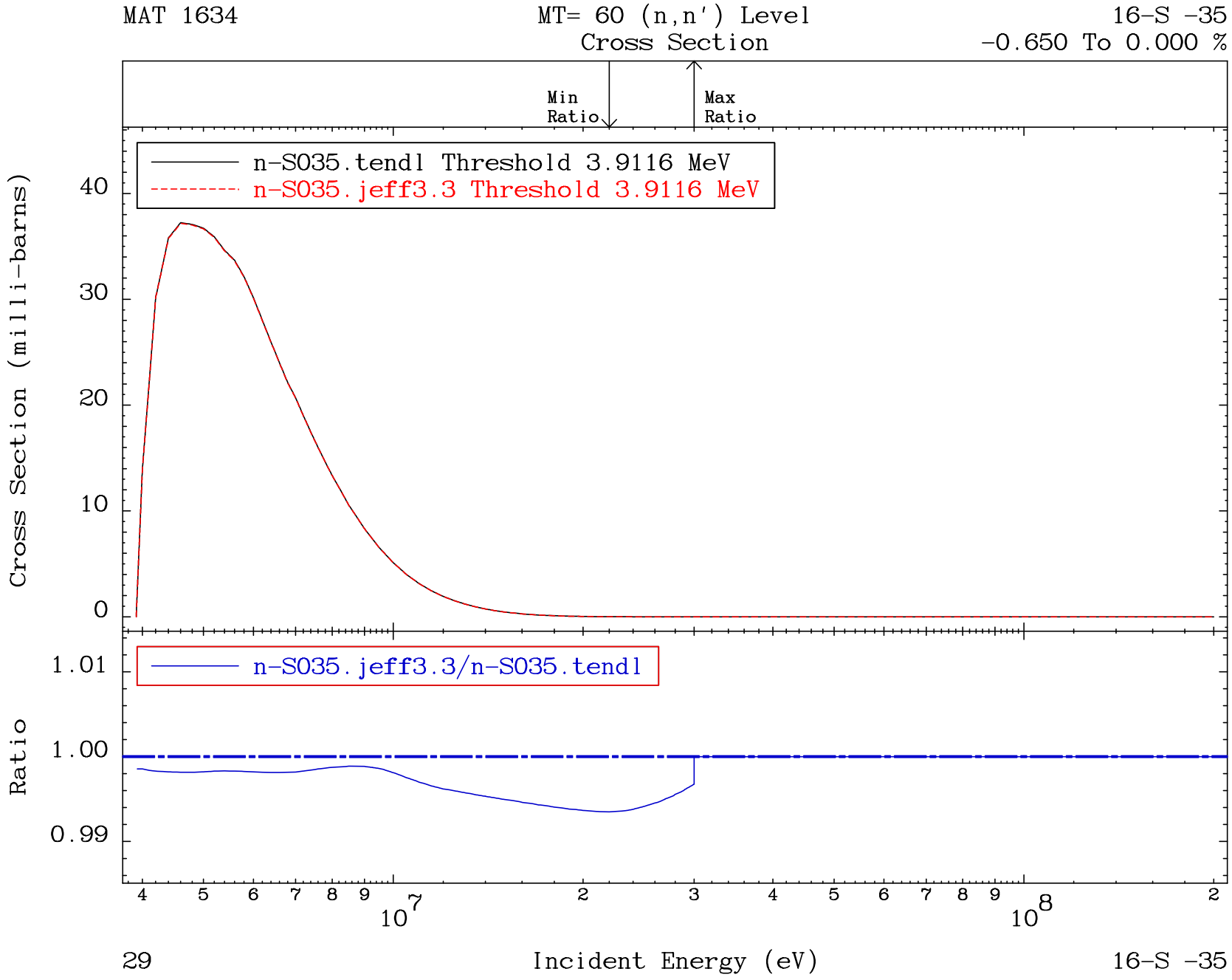

MAT 1634
MT= 55 (n,n') Level
Cross Section
16-S -35
-0.153 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 3.0234 MeV
n-S035.jeff3.3 Threshold 3.0234 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
16-S -35

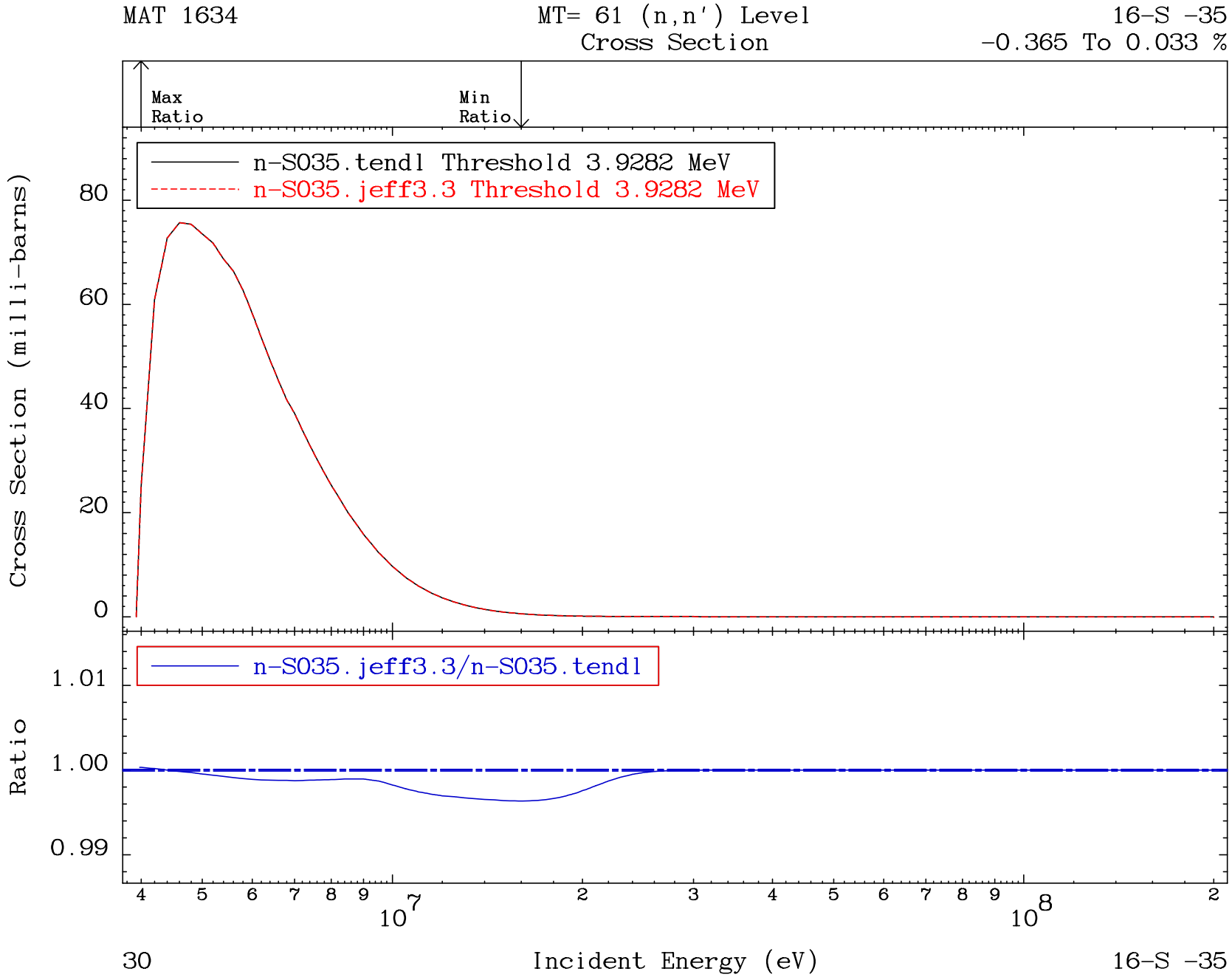

MAT 1634
MT= 56 (n,n') Level
Cross Section
16-S -35
-0.432 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 3.5198 MeV
n-S035.jeff3.3 Threshold 3.5198 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
25
16-S -35

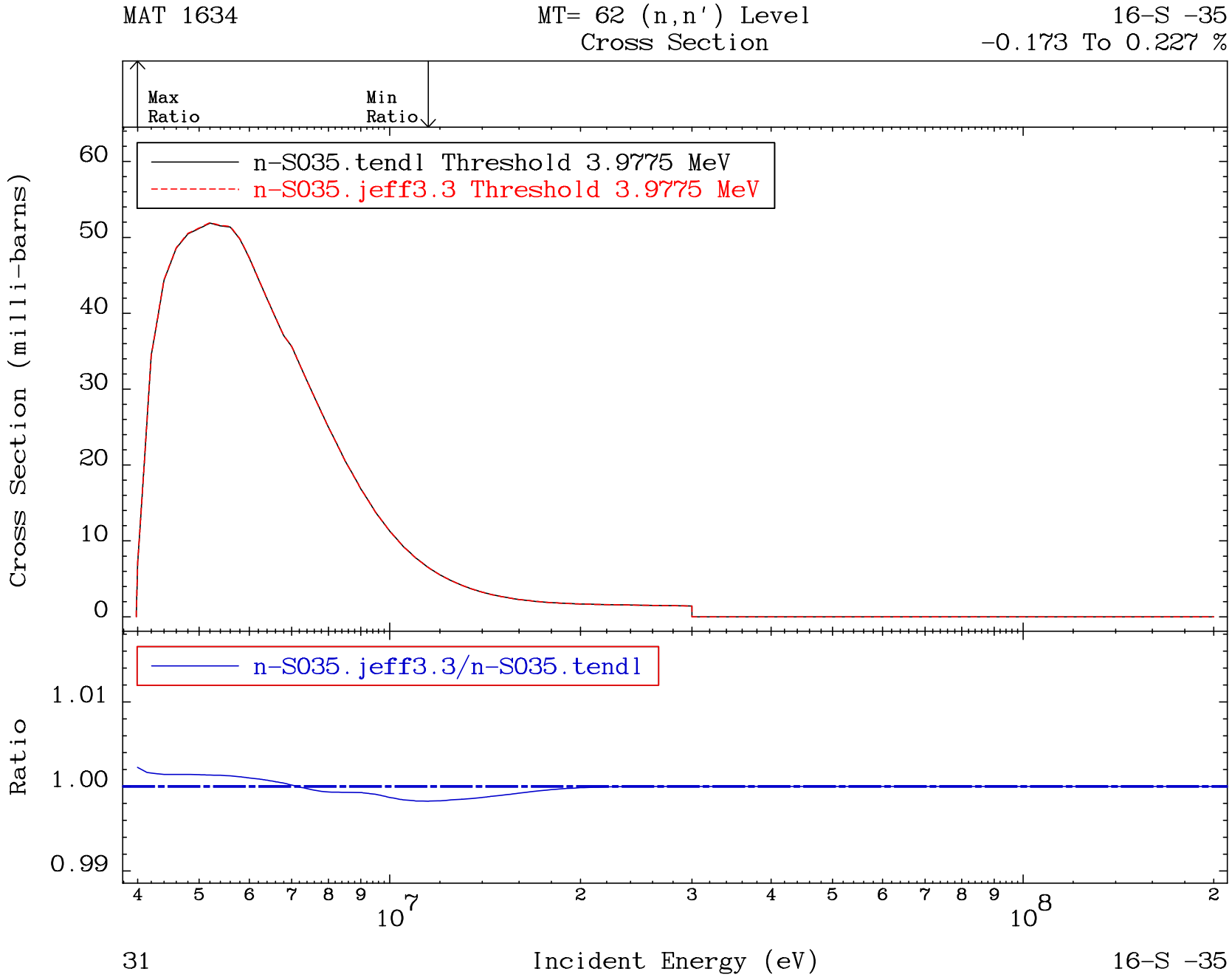

MAT 1634
MT= 57 (n,n') Level
Cross Section
16-S -35
-0.478 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 3.6607 MeV
n-S035.jeff3.3 Threshold 3.6607 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
16-S -35

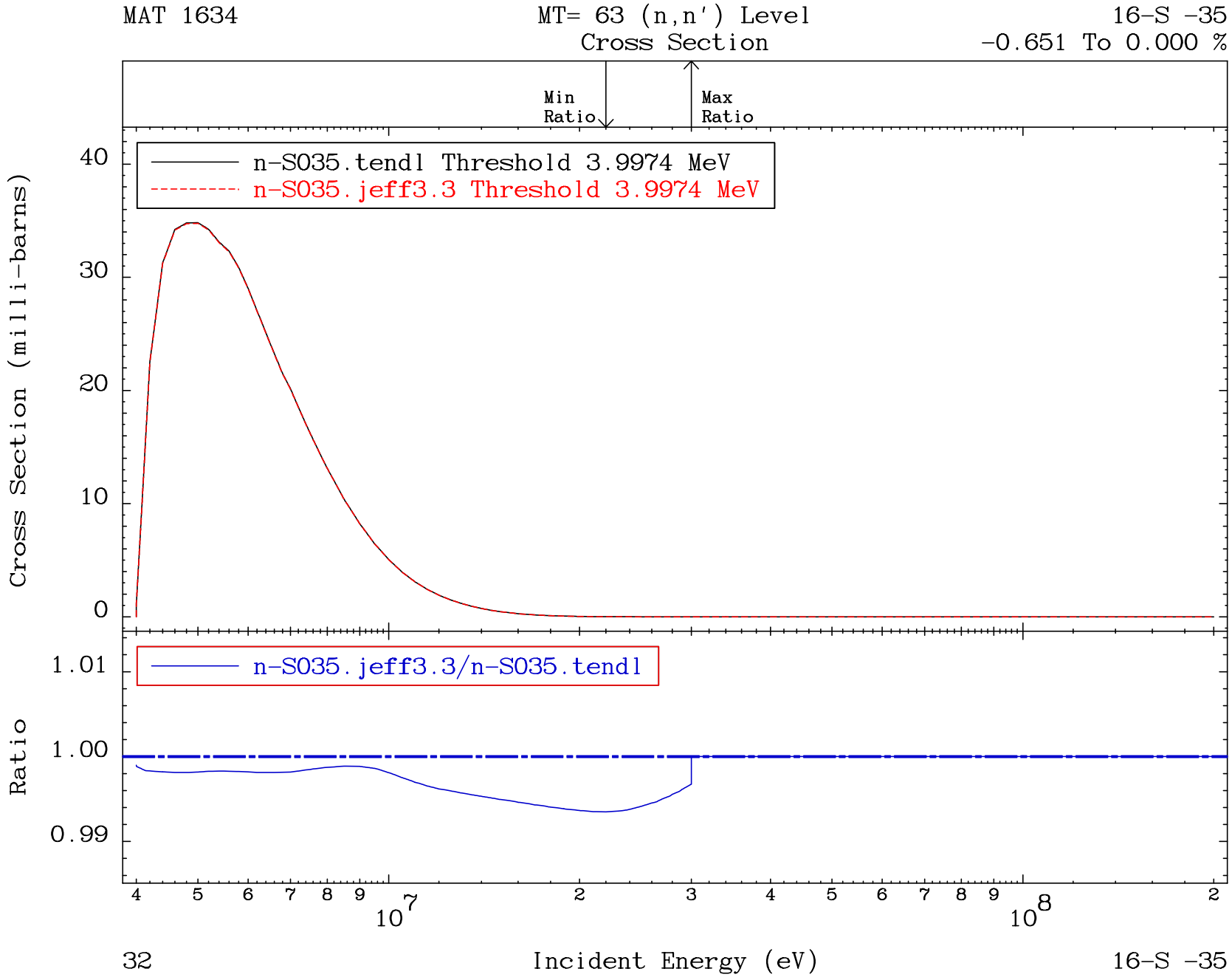

MAT 1634
MT= 58 (n,n') Level
Cross Section
16-S -35
-0.600 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 3.6985 MeV
n-S035.jeff3.3 Threshold 3.6985 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
16-S -35

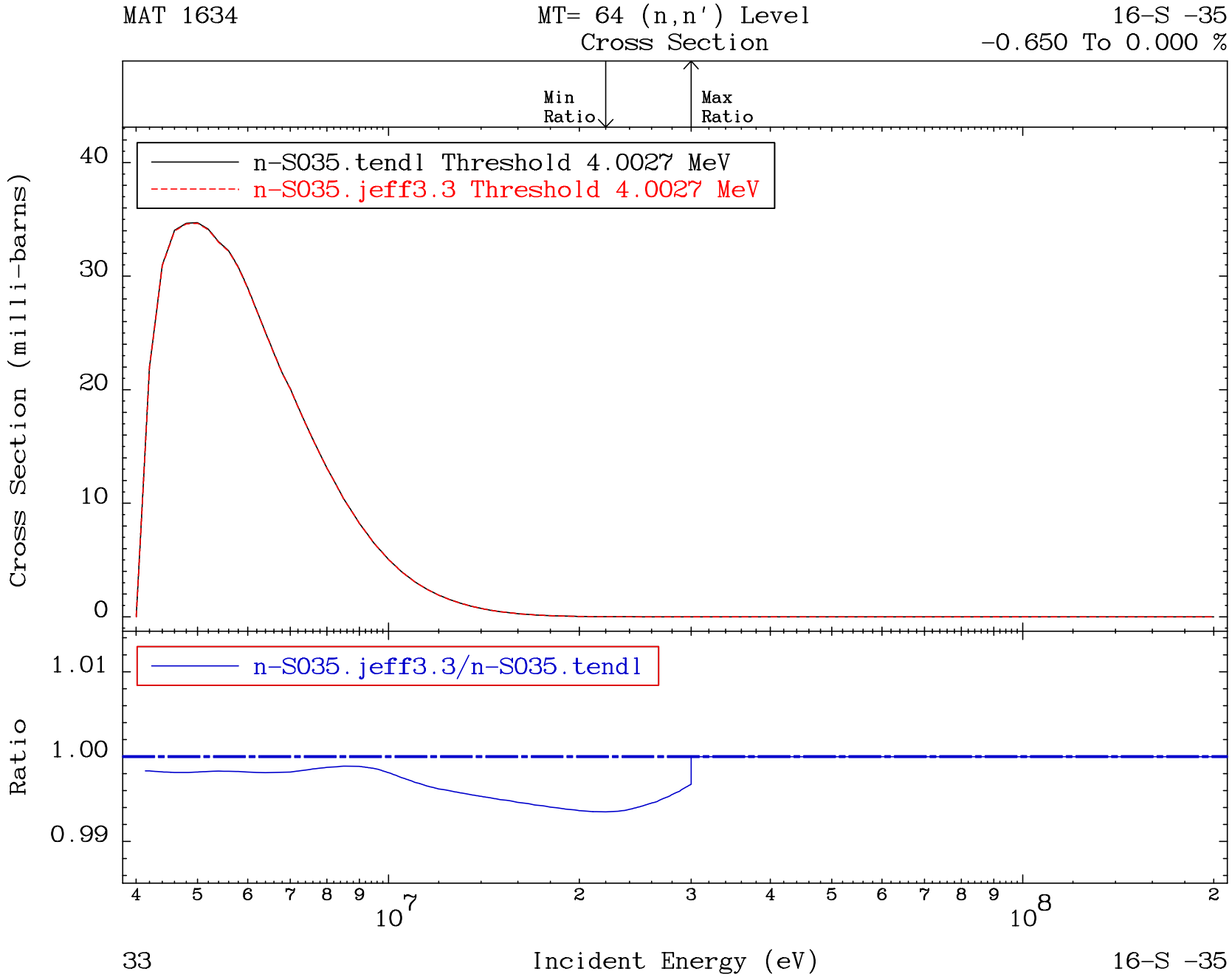

MAT 1634
MT= 59 (n,n') Level
Cross Section
16-S -35
-0.508 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 3.7810 MeV
n-S035.jeff3.3 Threshold 3.7810 MeV
Cross Section (milli-barns)
n-S035.jeff3.3/n-S035.tendl
Ratio
Incident Energy (eV)
28
16-S -35

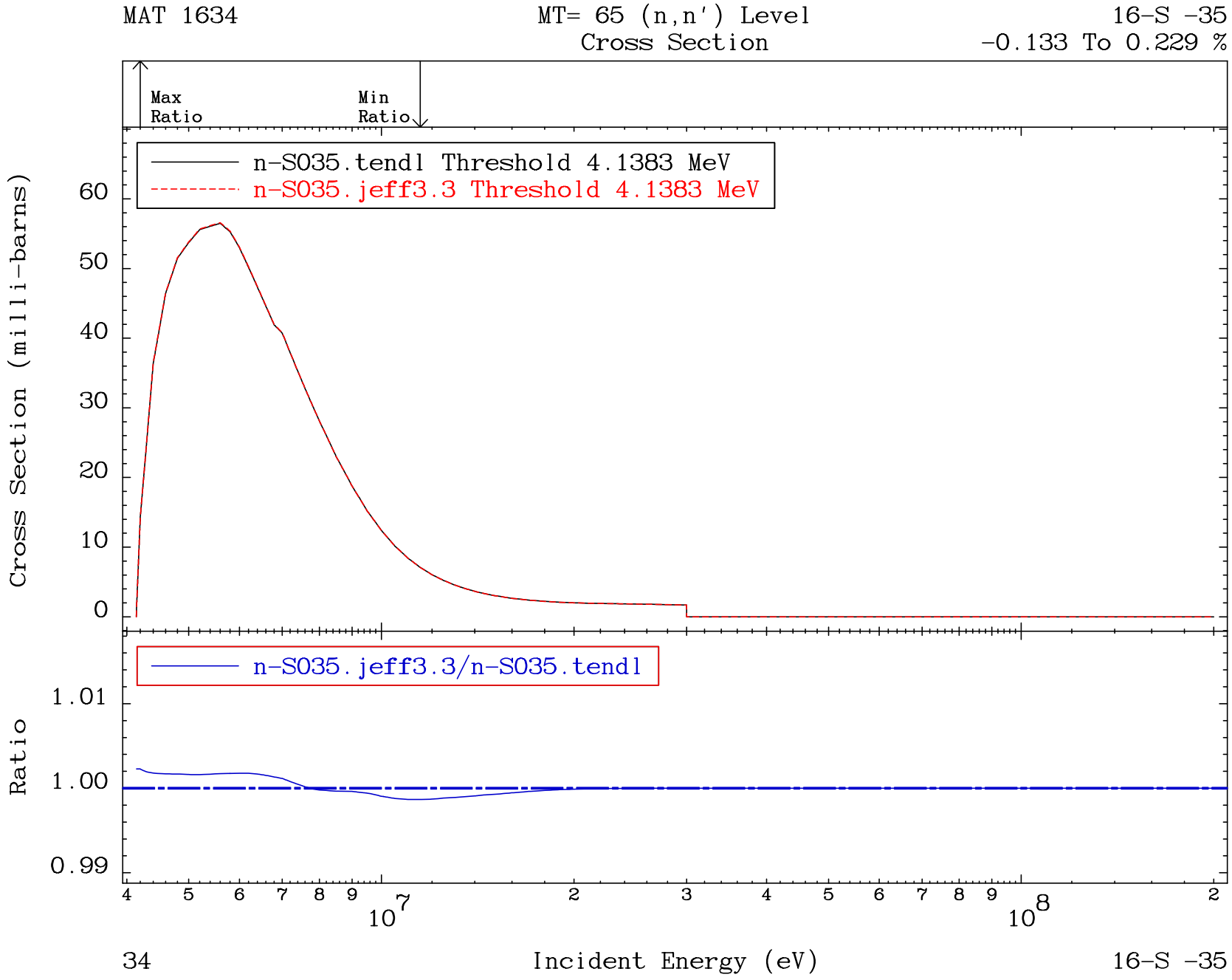

MAT 1634
MT= 60 (n,n') Level
Cross Section
16-S -35
-0.650 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 3.9116 MeV
n-S035.jeff3.3 Threshold 3.9116 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
16-S -35

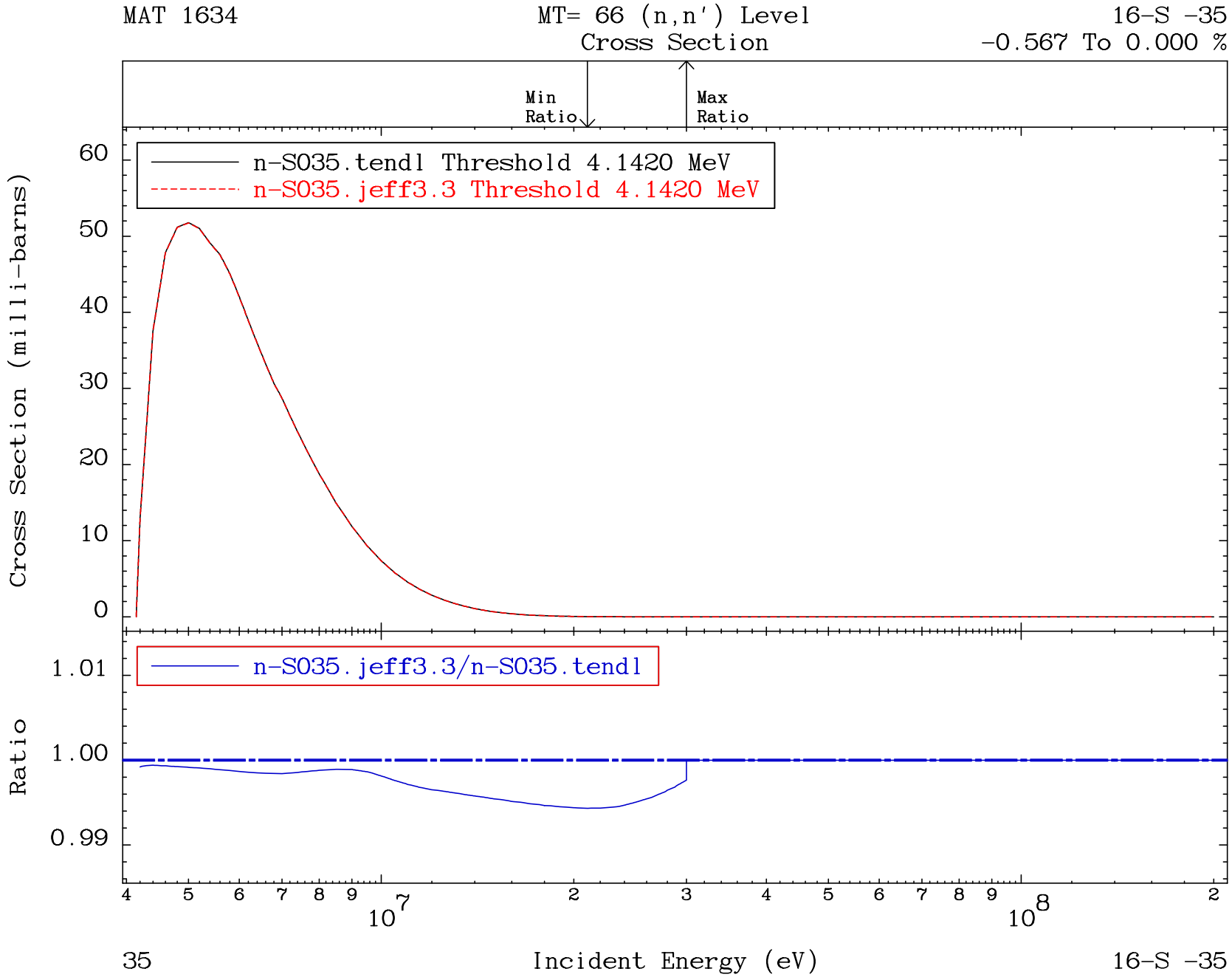

MAT 1634
MT= 61 (n,n') Level
Cross Section
16-S -35
-0.365 To 0.033 %
Max
Ratio
Min
Ratio
n-S035.tendl Threshold 3.9282 MeV
n-S035.jeff3.3 Threshold 3.9282 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
16-S -35

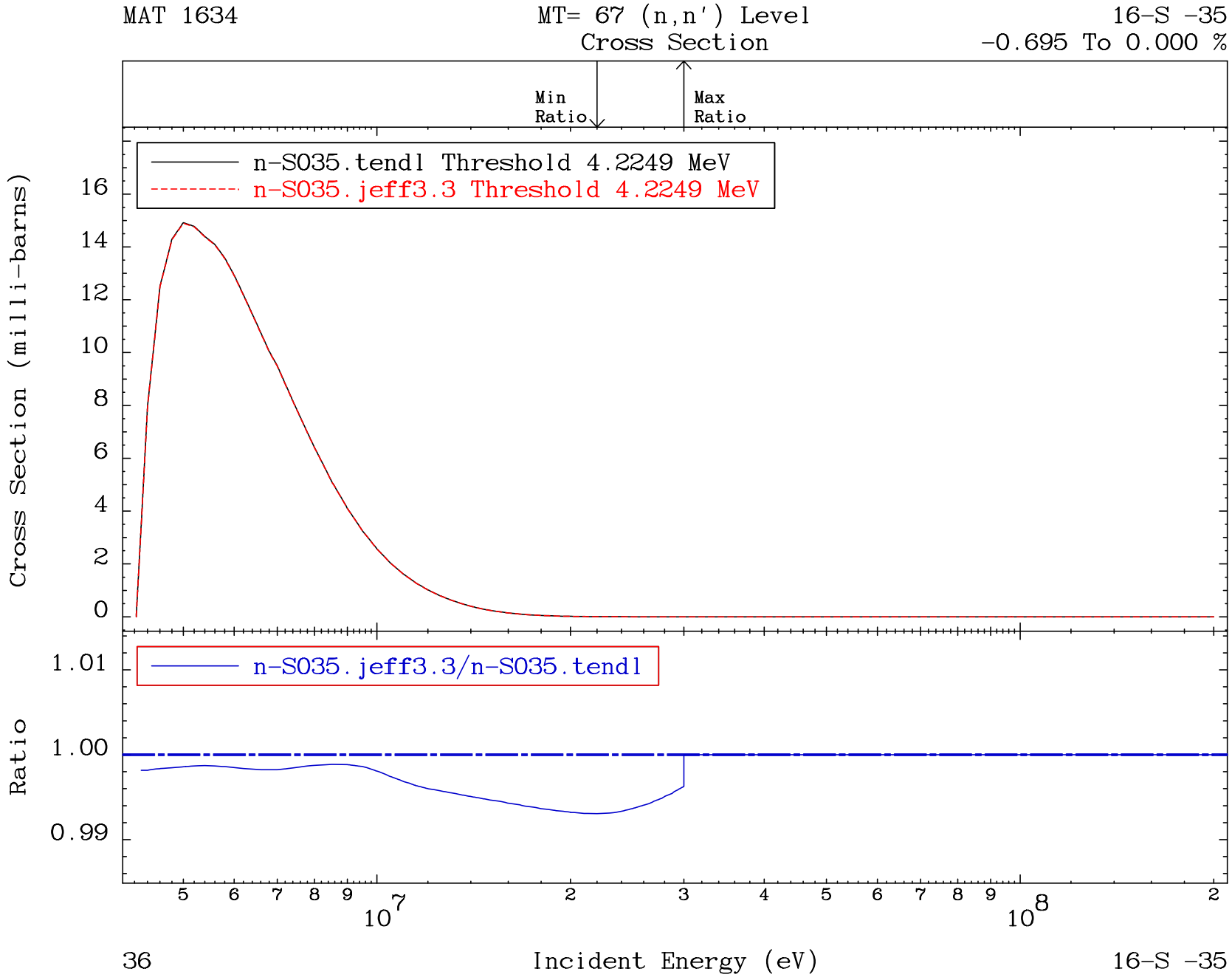

MAT 1634
MT= 62 (n,n') Level
Cross Section
16-S -35
-0.173 To 0.227 %
Max Ratio
Min Ratio
n-S035.tendl Threshold 3.9775 MeV
n-S035.jeff3.3 Threshold 3.9775 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
16-S -35

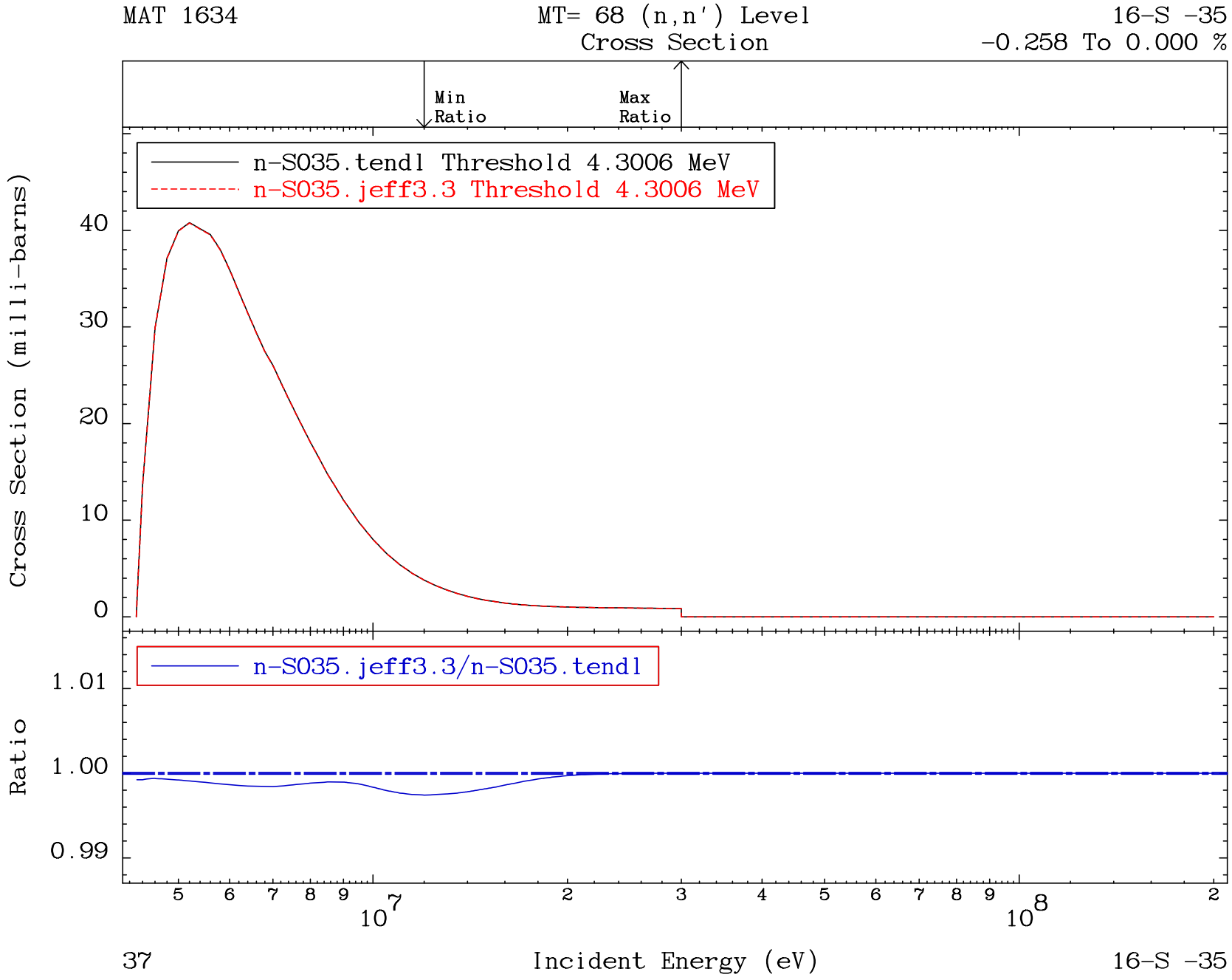

MAT 1634
MT= 63 (n,n') Level
Cross Section
16-S -35
-0.651 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 3.9974 MeV
n-S035.jeff3.3 Threshold 3.9974 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
16-S -35

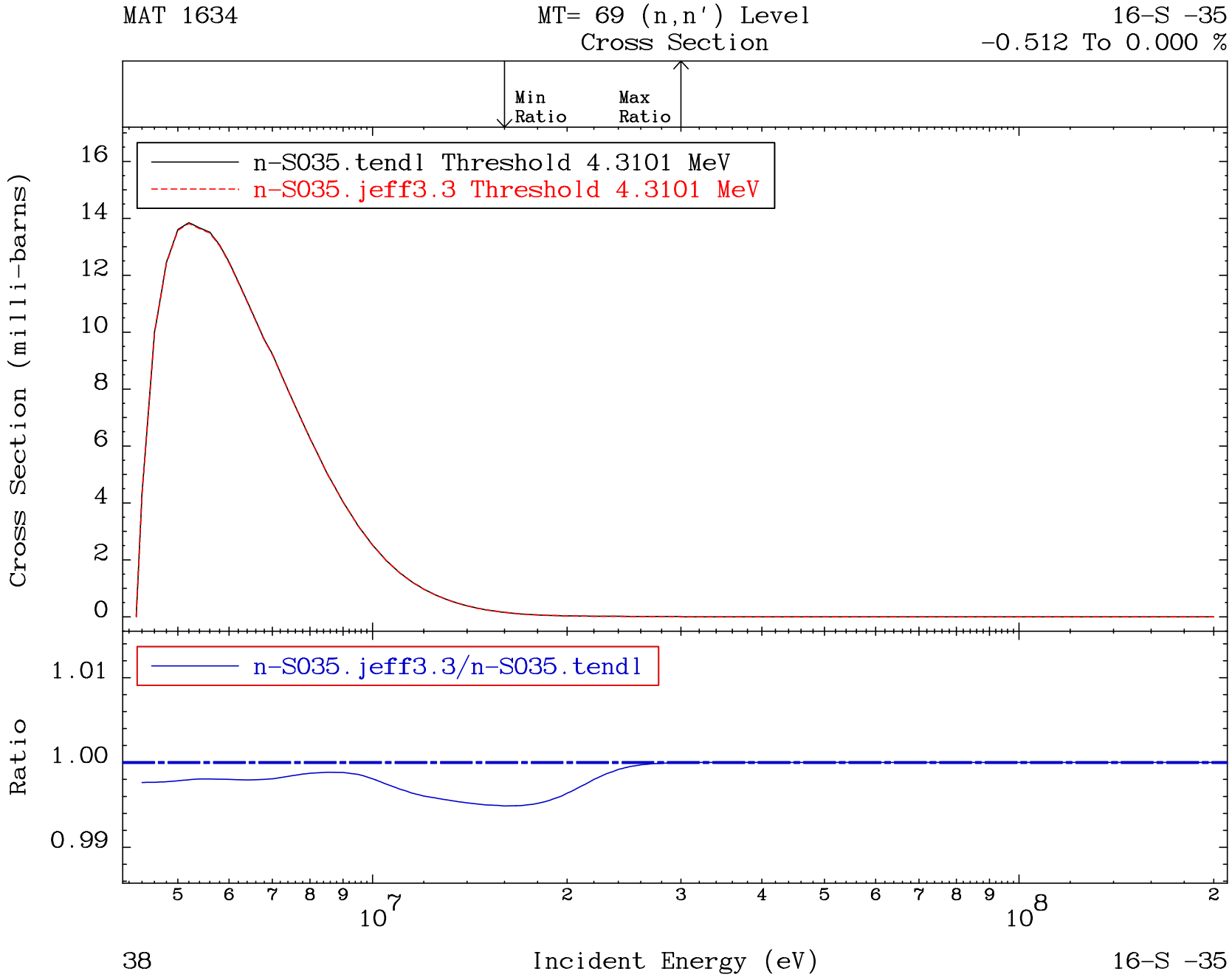

MAT 1634
MT= 64 (n,n') Level
Cross Section
16-S -35
-0.650 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 4.0027 MeV
n-S035.jeff3.3 Threshold 4.0027 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
16-S -35

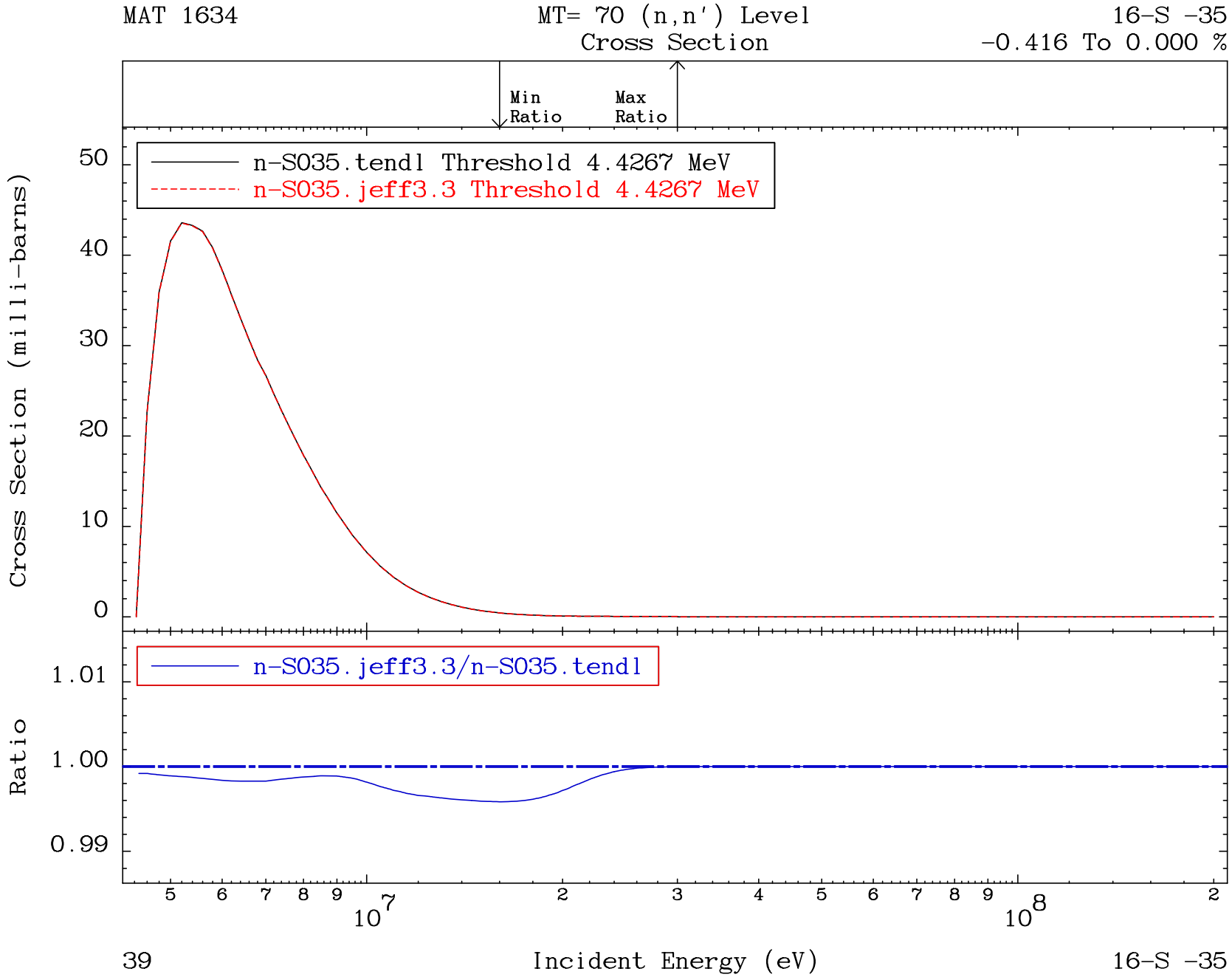

MAT 1634
MT= 65 (n,n') Level
Cross Section
16-S -35
-0.133 To 0.229 %
Max Ratio
Min Ratio
n-S035.tendl Threshold 4.1383 MeV
n-S035.jeff3.3 Threshold 4.1383 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
34
Incident Energy (eV)
16-S -35

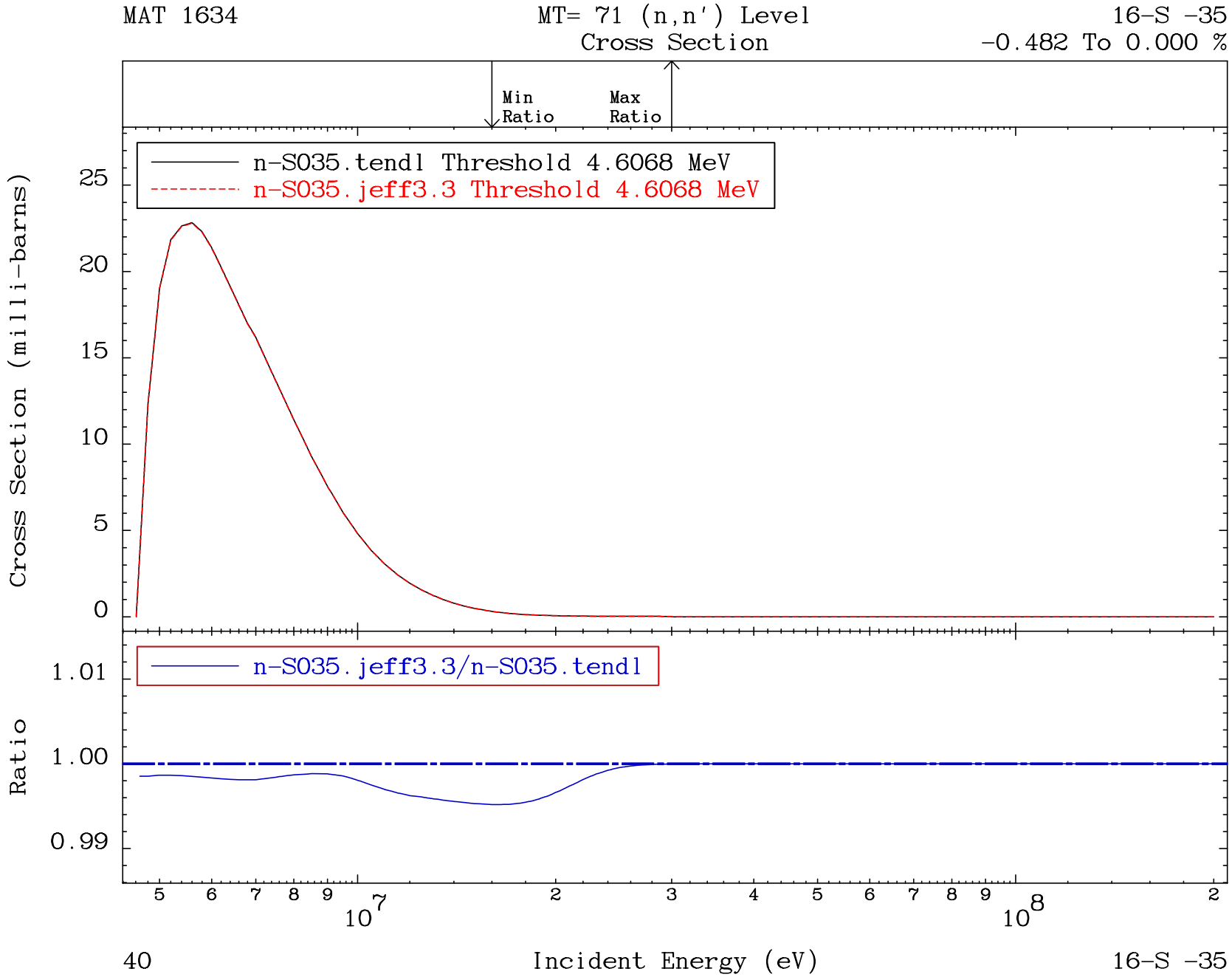

MAT 1634
MT= 66 (n,n') Level
Cross Section
16-S -35
-0.567 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 4.1420 MeV
n-S035.jeff3.3 Threshold 4.1420 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
16-S -35

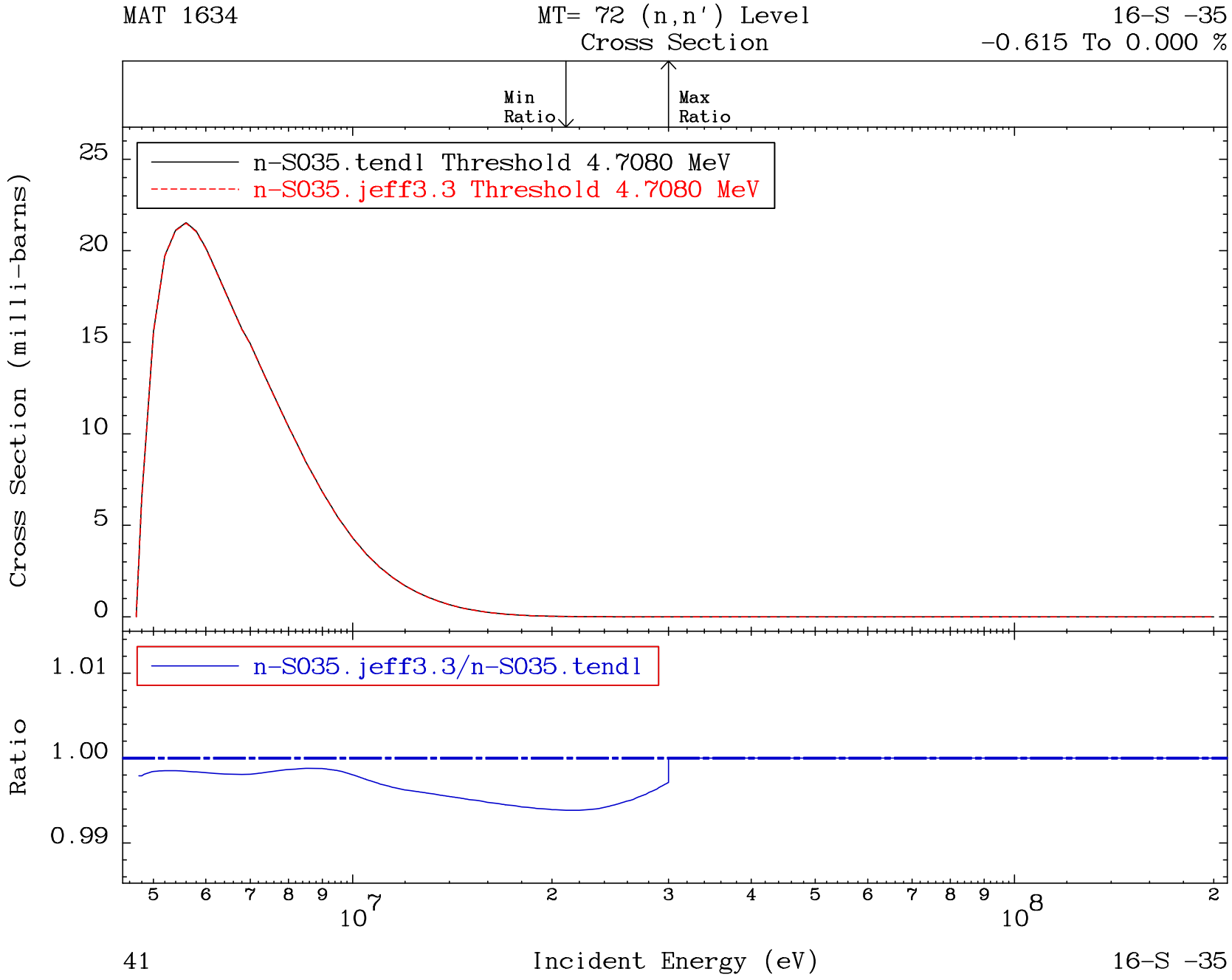

MAT 1634
MT= 67 (n,n') Level
Cross Section
16-S -35
-0.695 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 4.2249 MeV
n-S035.jeff3.3 Threshold 4.2249 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
16-S -35

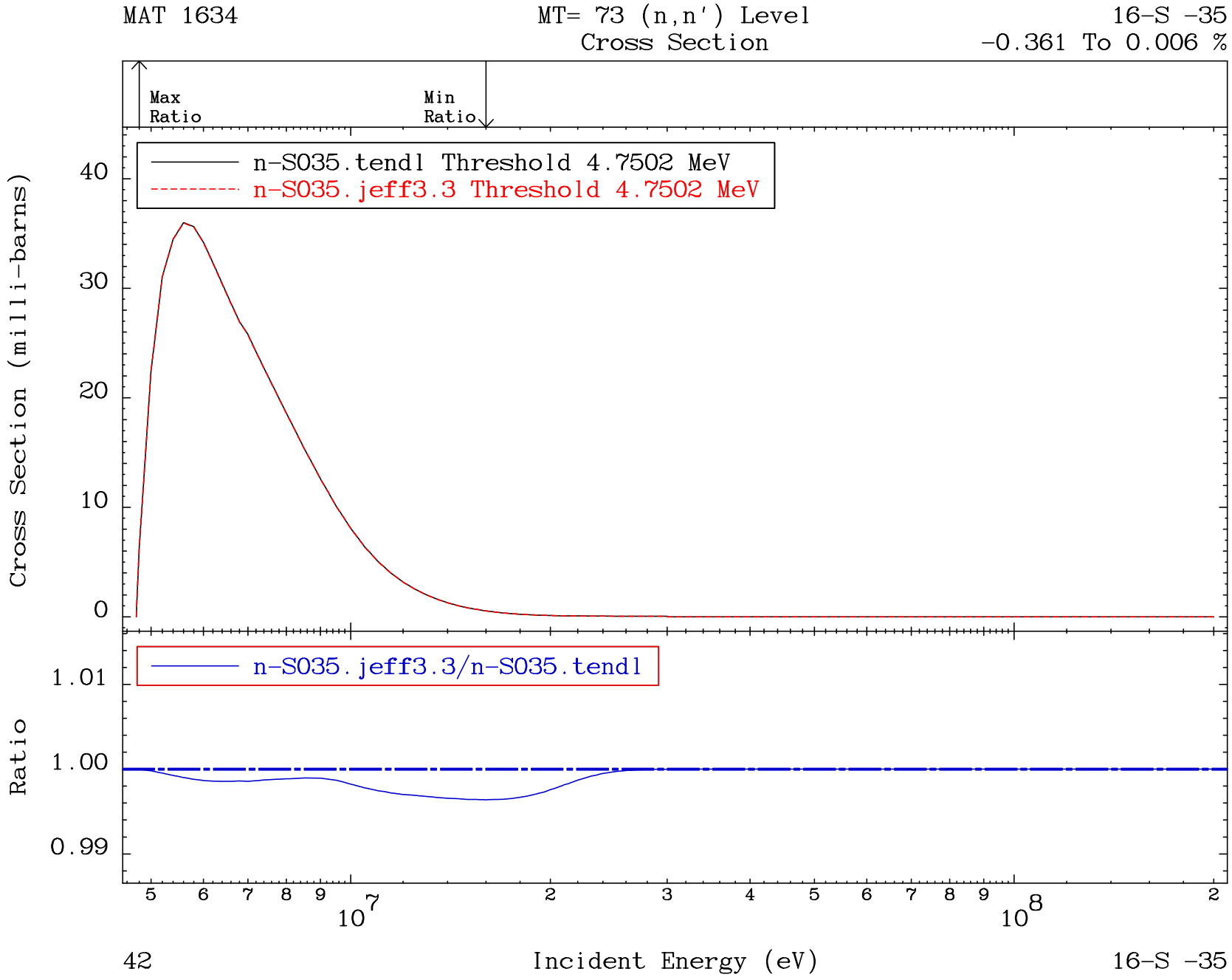

MAT 1634
MT= 68 (n,n') Level
Cross Section
16-S -35
-0.258 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 4.3006 MeV
n-S035.jeff3.3 Threshold 4.3006 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
16-S -35

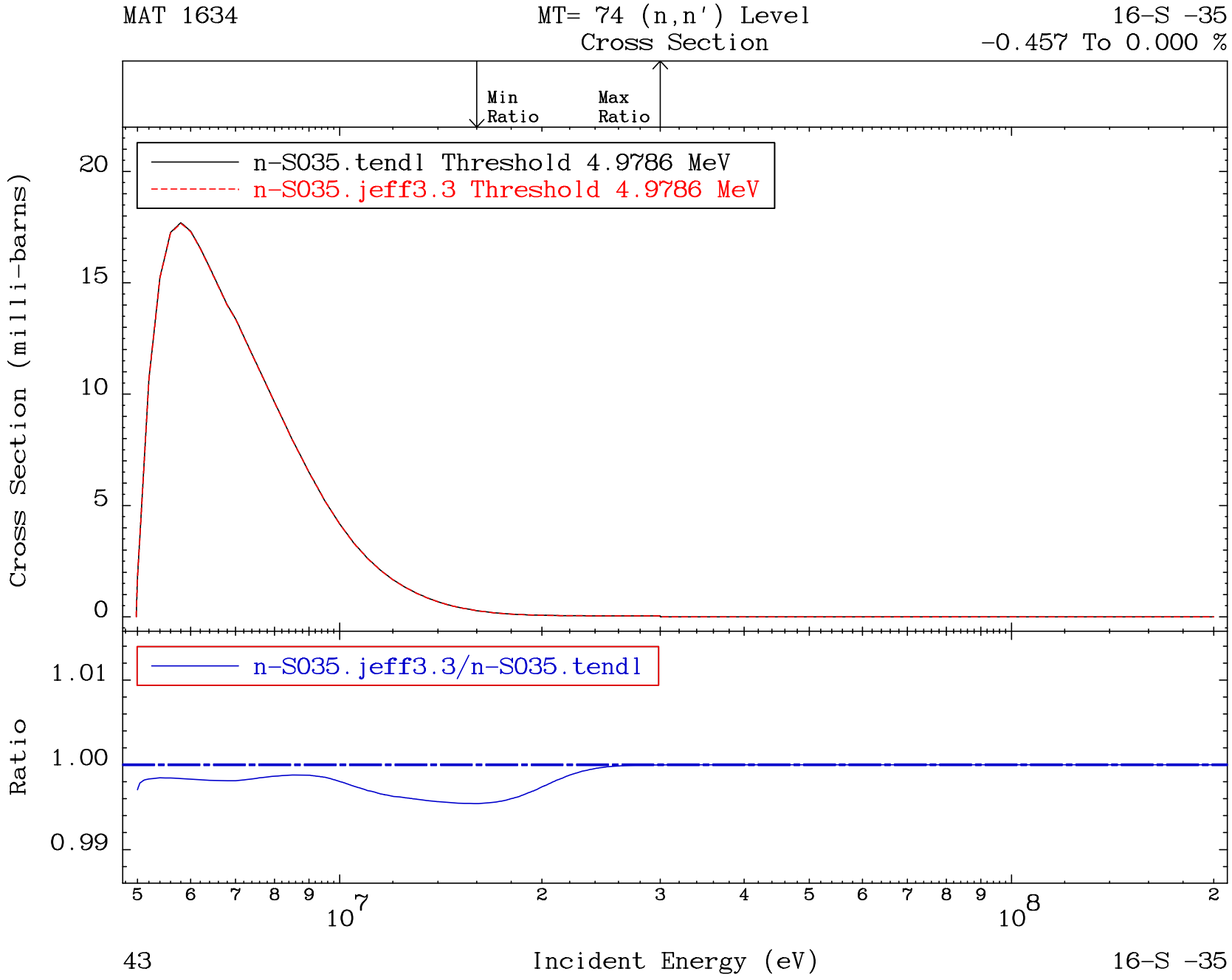

MAT 1634
MT= 69 (n,n') Level
Cross Section
16-S -35
-0.512 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 4.3101 MeV
n-S035.jeff3.3 Threshold 4.3101 MeV
Cross Section (milli-barns)
n-S035.jeff3.3/n-S035.tendl
Ratio
Incident Energy (eV)
38
16-S -35

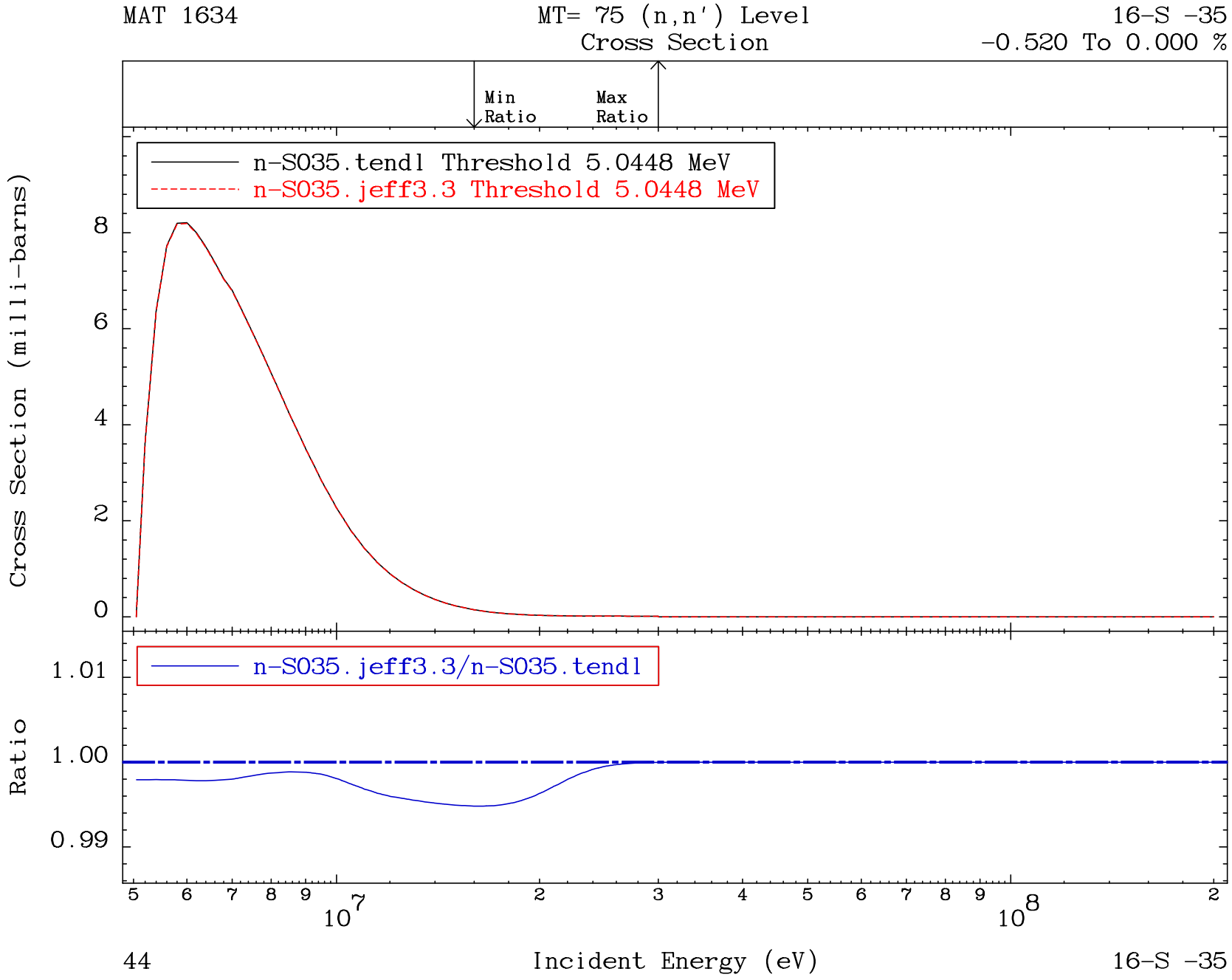

MAT 1634
MT= 70 (n,n') Level
Cross Section
16-S -35
-0.416 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 4.4267 MeV
n-S035.jeff3.3 Threshold 4.4267 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
16-S -35

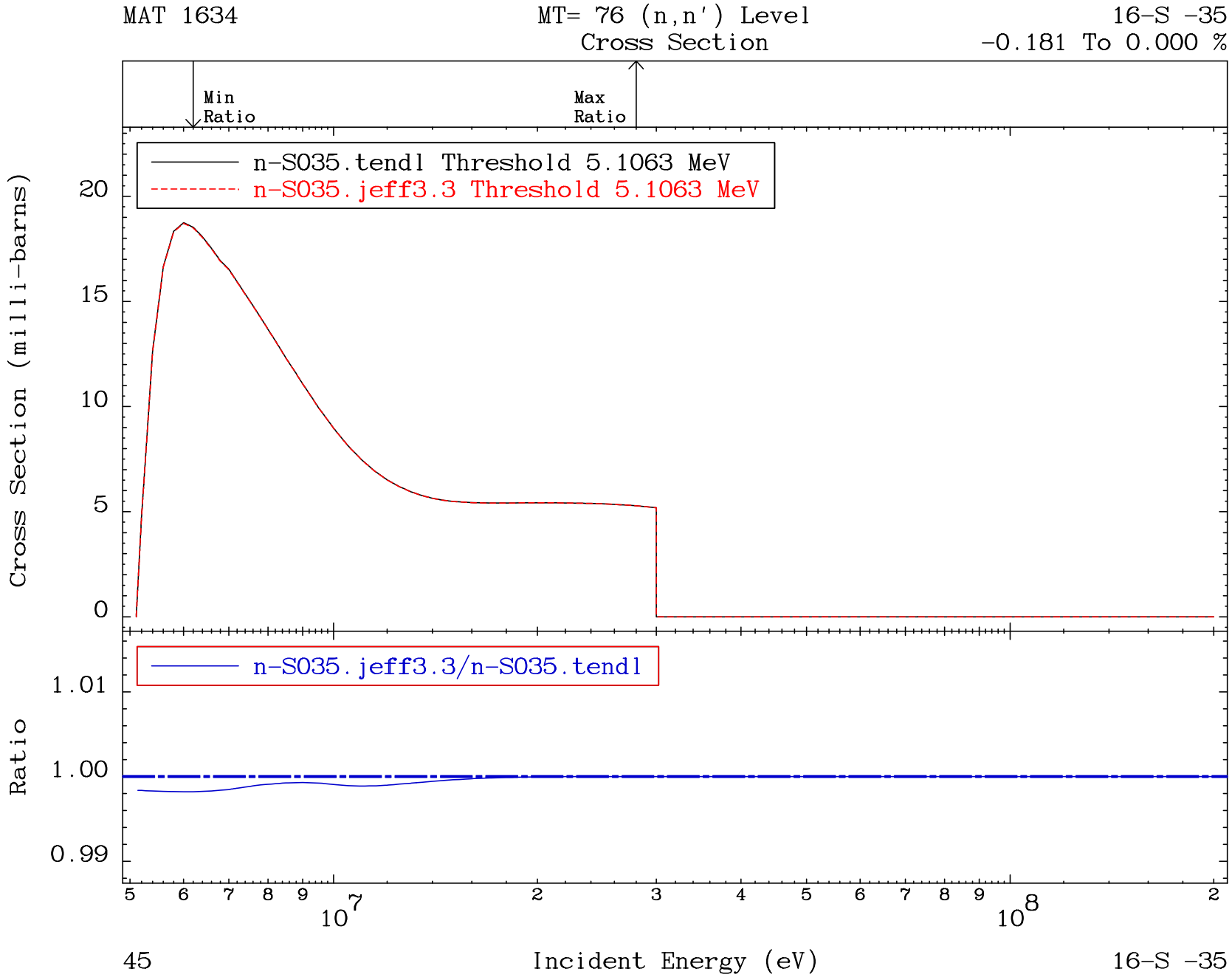

MAT 1634
MT= 71 (n,n') Level
Cross Section
16-S -35
-0.482 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 4.6068 MeV
n-S035.jeff3.3 Threshold 4.6068 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
40
Incident Energy (eV)
16-S -35

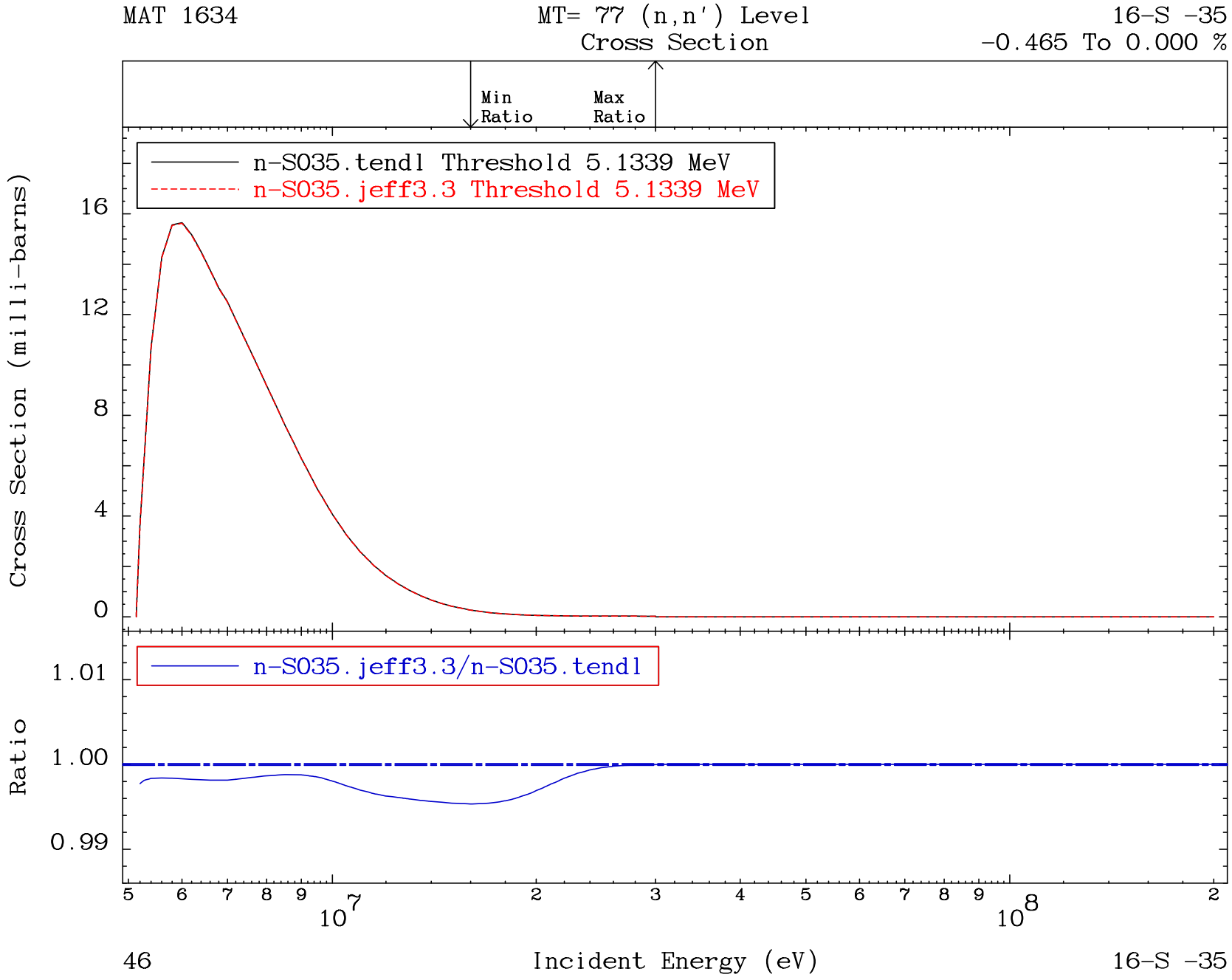

MAT 1634
MT= 72 (n,n') Level
Cross Section
16-S -35
-0.615 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 4.7080 MeV
n-S035.jeff3.3 Threshold 4.7080 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
16-S -35

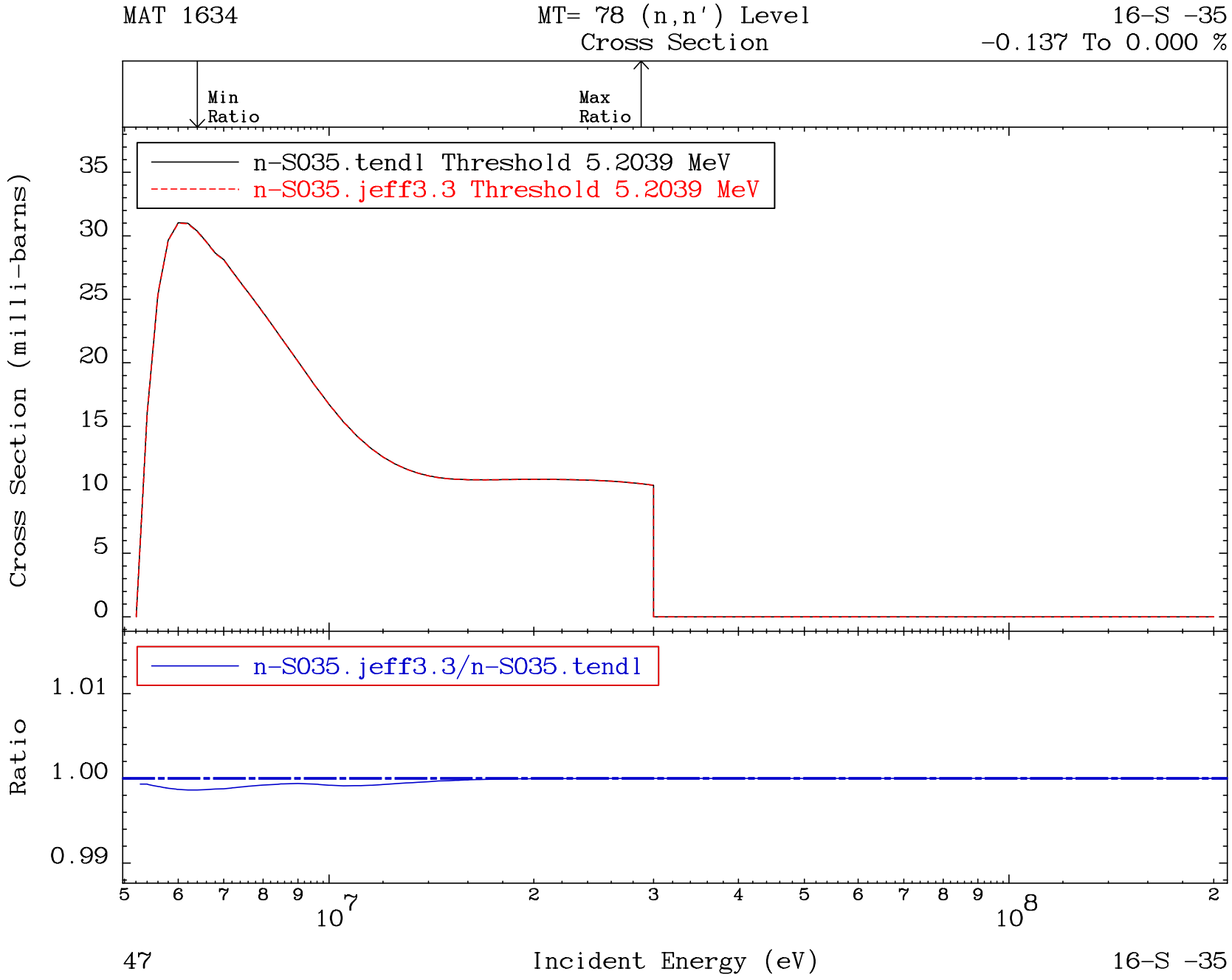

MAT 1634
MT= 73 (n,n') Level
Cross Section
16-S -35
-0.361 To 0.006 %
Max Ratio
Min Ratio
n-S035.tendl Threshold 4.7502 MeV
n-S035.jeff3.3 Threshold 4.7502 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
16-S -35

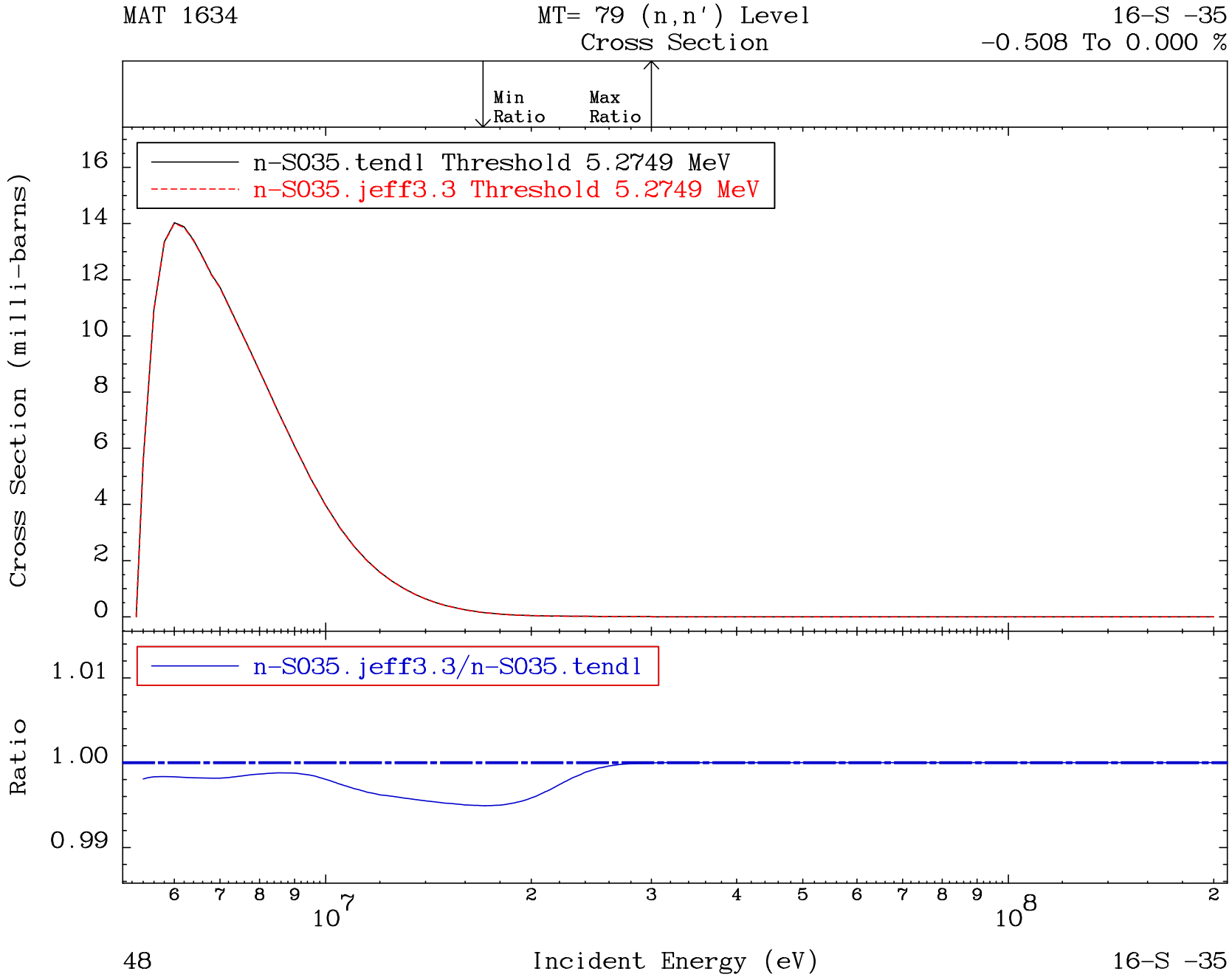

MAT 1634
MT= 74 (n,n') Level
Cross Section
16-S -35
-0.457 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 4.9786 MeV
n-S035.jeff3.3 Threshold 4.9786 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
43
Incident Energy (eV)
16-S -35

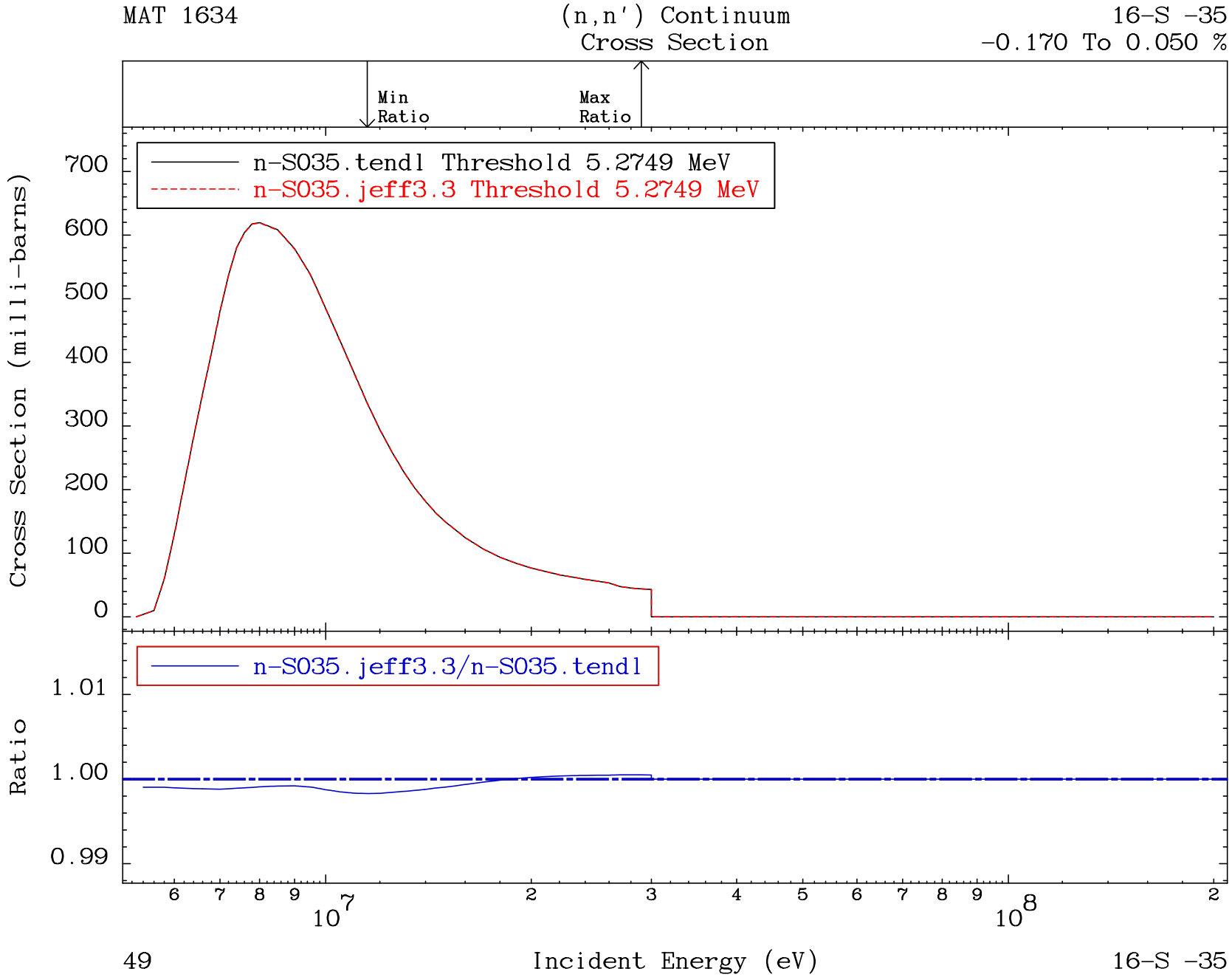

MAT 1634
MT= 75 (n,n') Level
Cross Section
16-S -35
-0.520 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 5.0448 MeV
n-S035.jeff3.3 Threshold 5.0448 MeV
Cross Section (milli-barns)
8
6
4
2
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
16-S -35

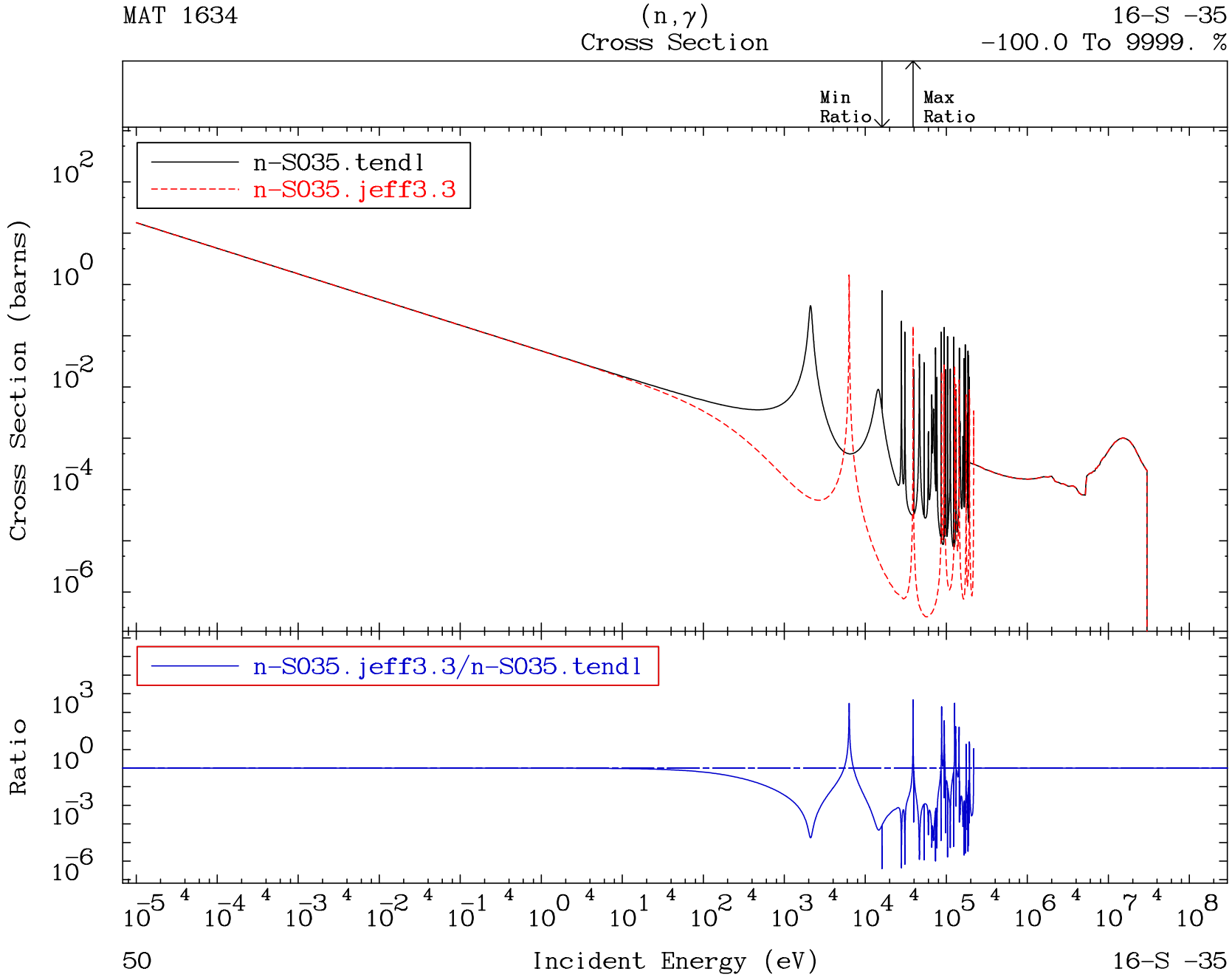

MAT 1634
MT= 76 (n,n') Level
Cross Section
16-S -35
-0.181 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 5.1063 MeV
n-S035.jeff3.3 Threshold 5.1063 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
16-S -35

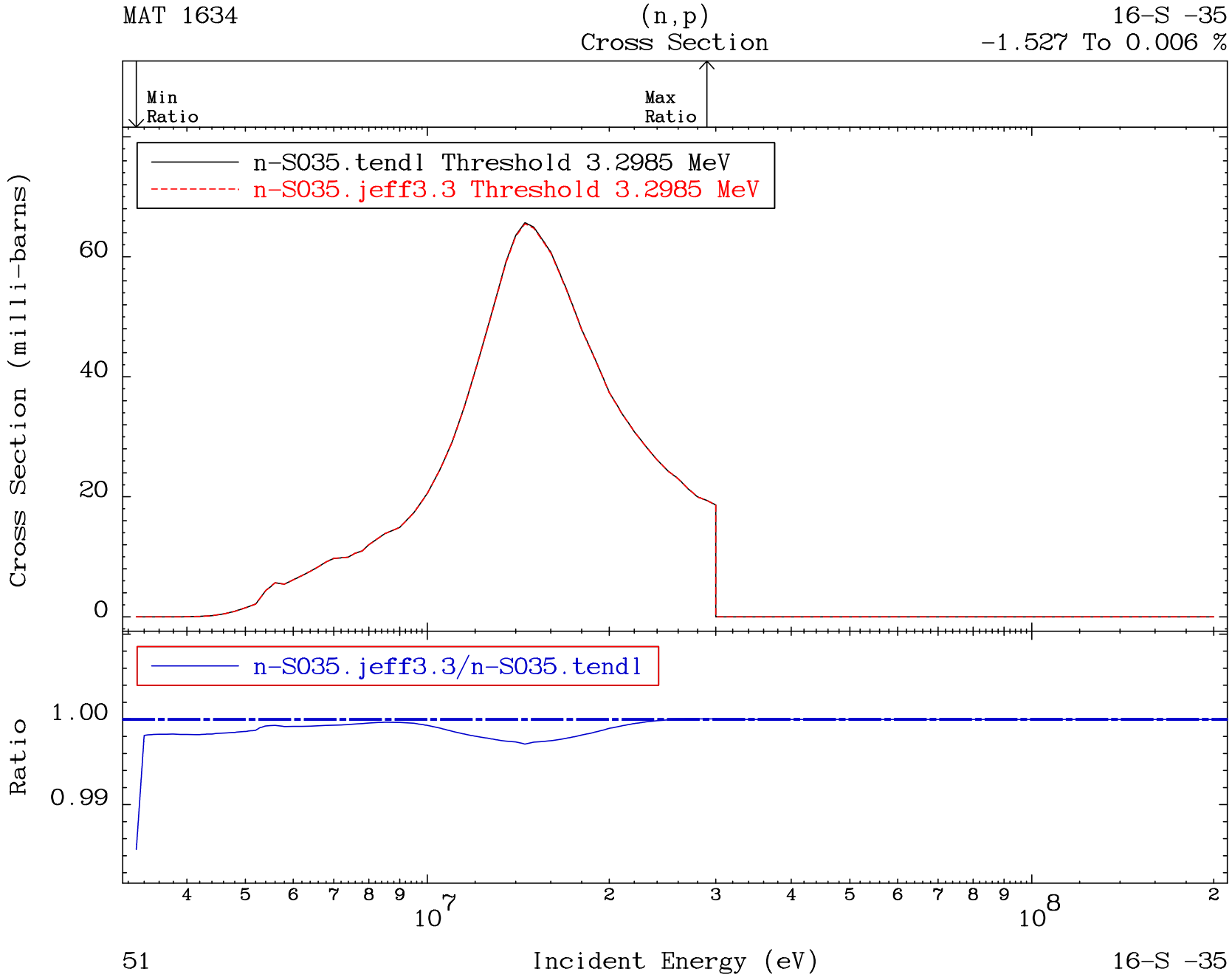

MAT 1634
MT= 77 (n,n') Level
Cross Section
16-S -35
-0.465 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 5.1339 MeV
n-S035.jeff3.3 Threshold 5.1339 MeV
Cross Section (milli-barns)
16
12
8
4
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
46
Incident Energy (eV)
16-S -35

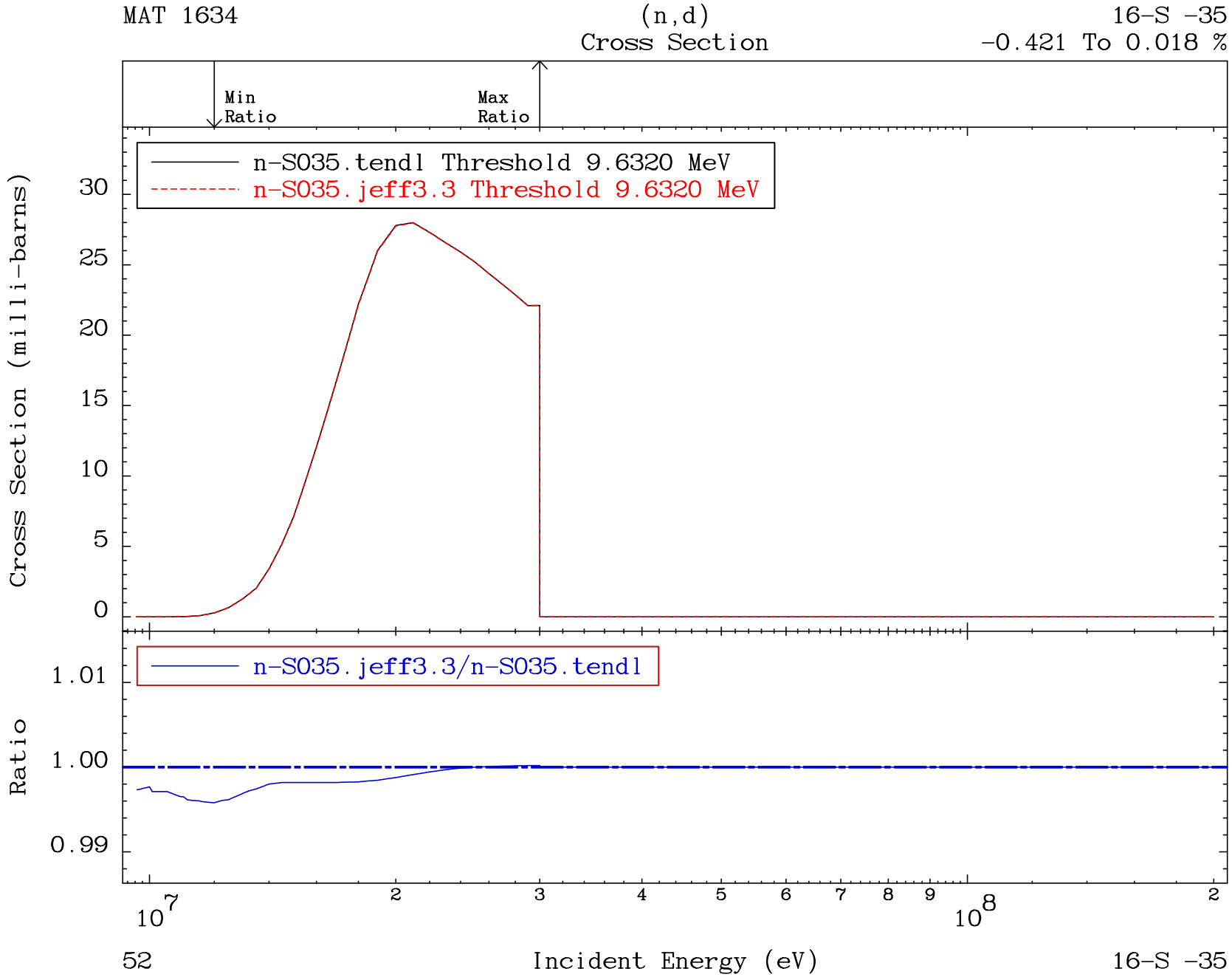

MAT 1634
MT= 78 (n,n') Level
Cross Section
16-S -35
-0.137 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 5.2039 MeV
n-S035.jeff3.3 Threshold 5.2039 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
47
Incident Energy (eV)
16-S -35

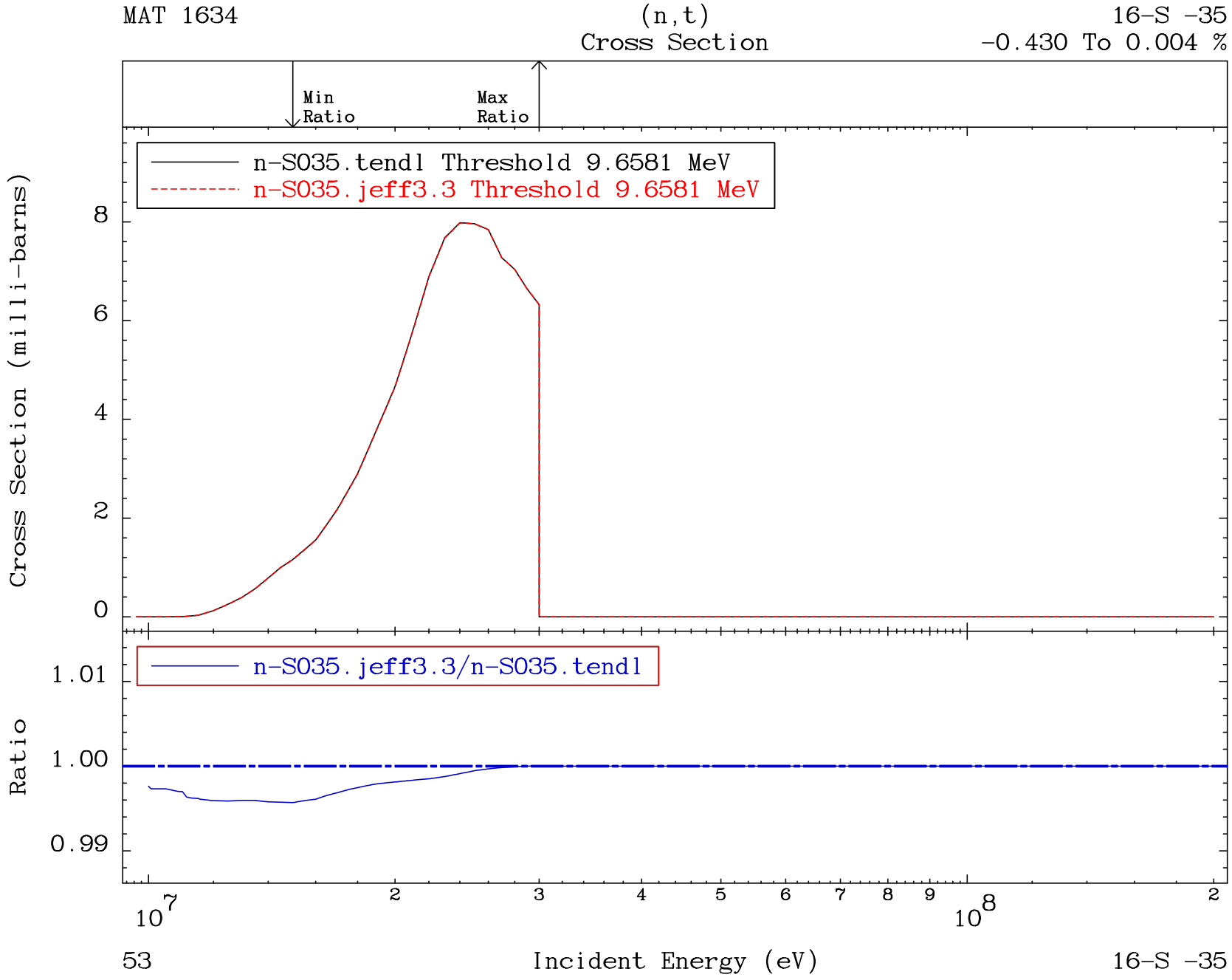

MAT 1634
MT= 79 (n,n') Level
Cross Section
16-S -35
-0.508 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 5.2749 MeV
n-S035.jeff3.3 Threshold 5.2749 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
48
Incident Energy (eV)
16-S -35

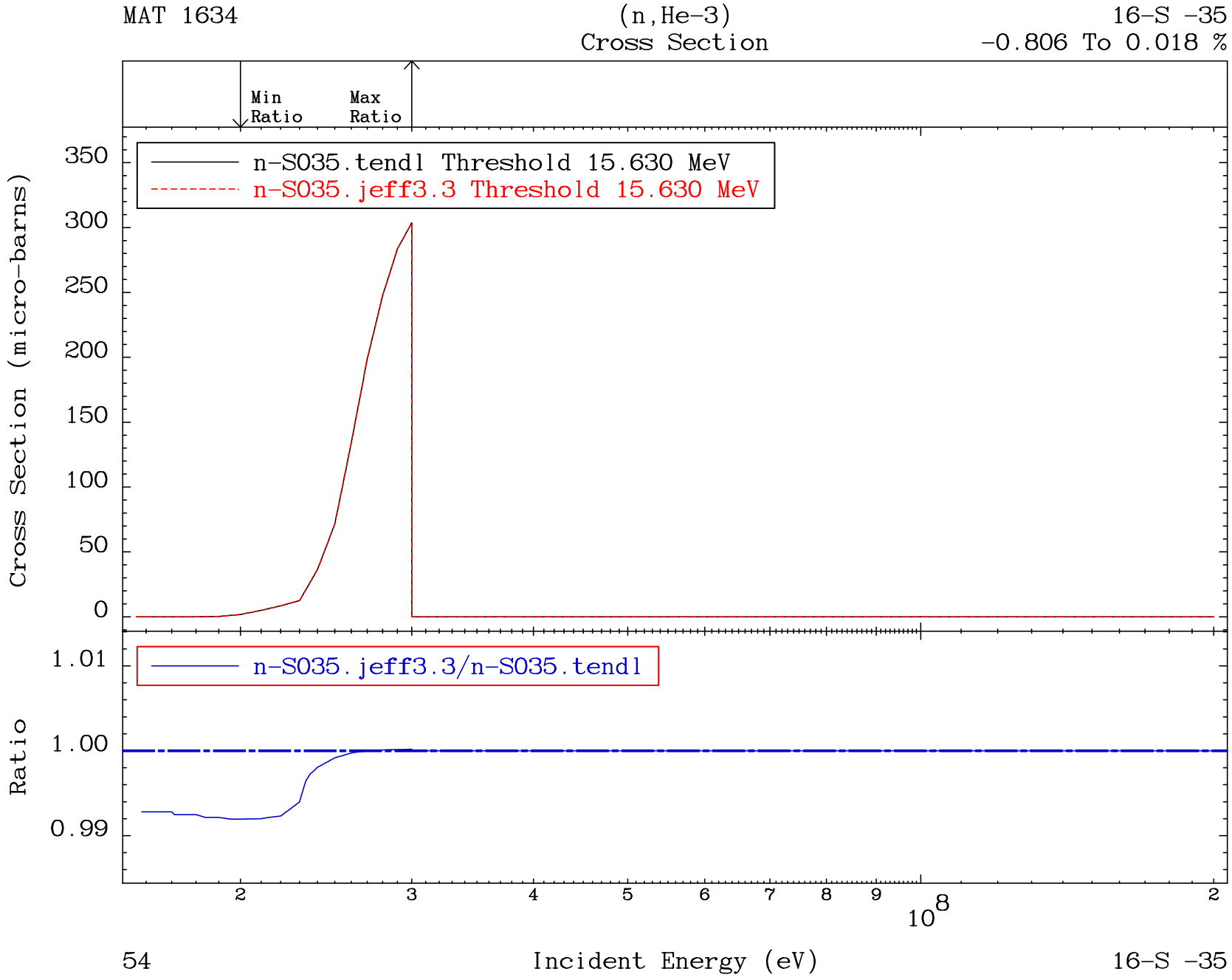

MAT 1634
(n,n') Continuum
Cross Section
16-S -35
-0.170 To 0.050 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 5.2749 MeV
n-S035.jeff3.3 Threshold 5.2749 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
49
Incident Energy (eV)
16-S -35

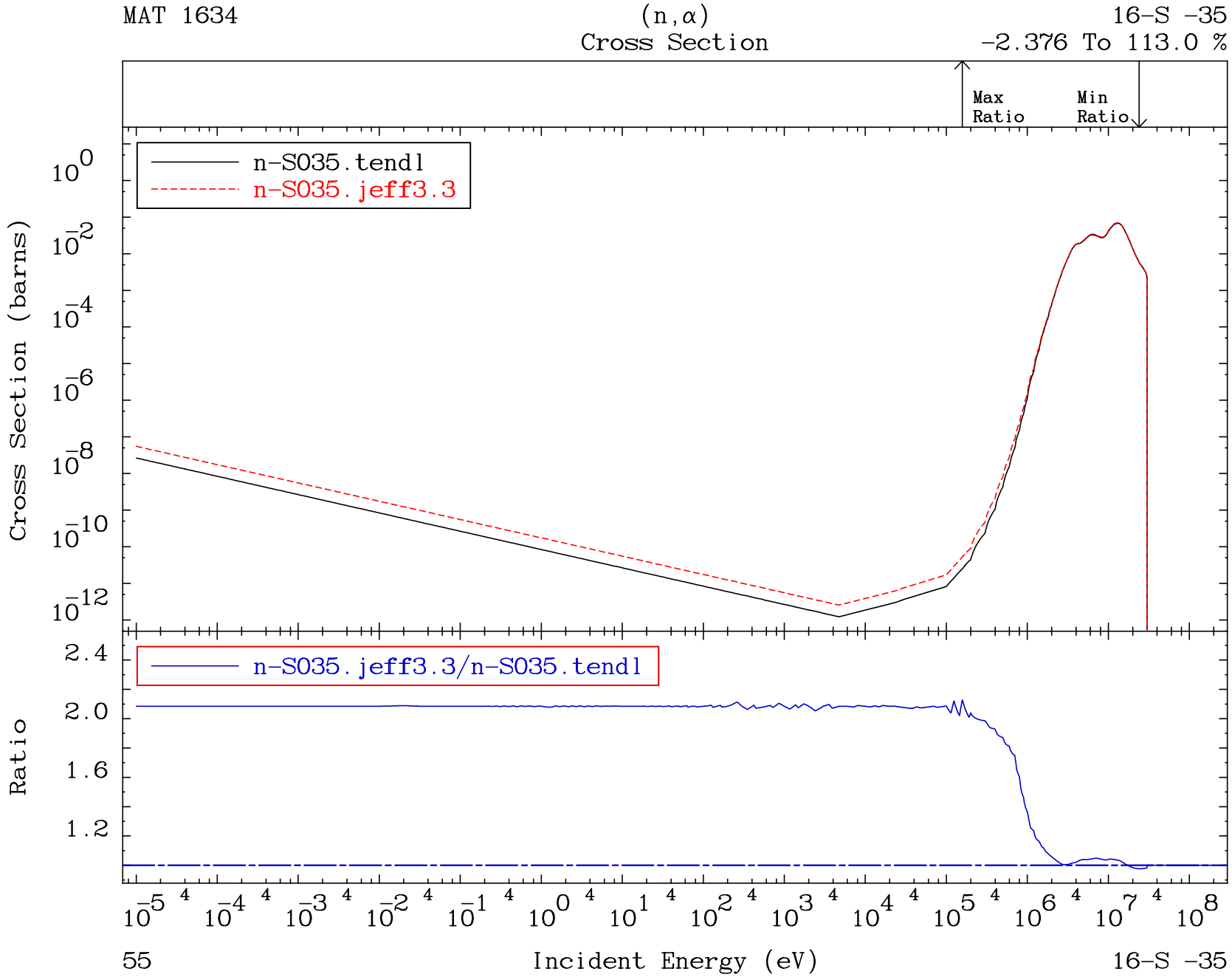

MAT 1634
(n,γ)
Cross Section
16-S -35
-100.0 To 9999. %
Min Ratio
Max Ratio
n-S035.tendl
n-S035.jeff3.3
Cross Section (barns)
n-S035.jeff3.3/n-S035.tendl
Ratio
Incident Energy (eV)
50
16-S -35

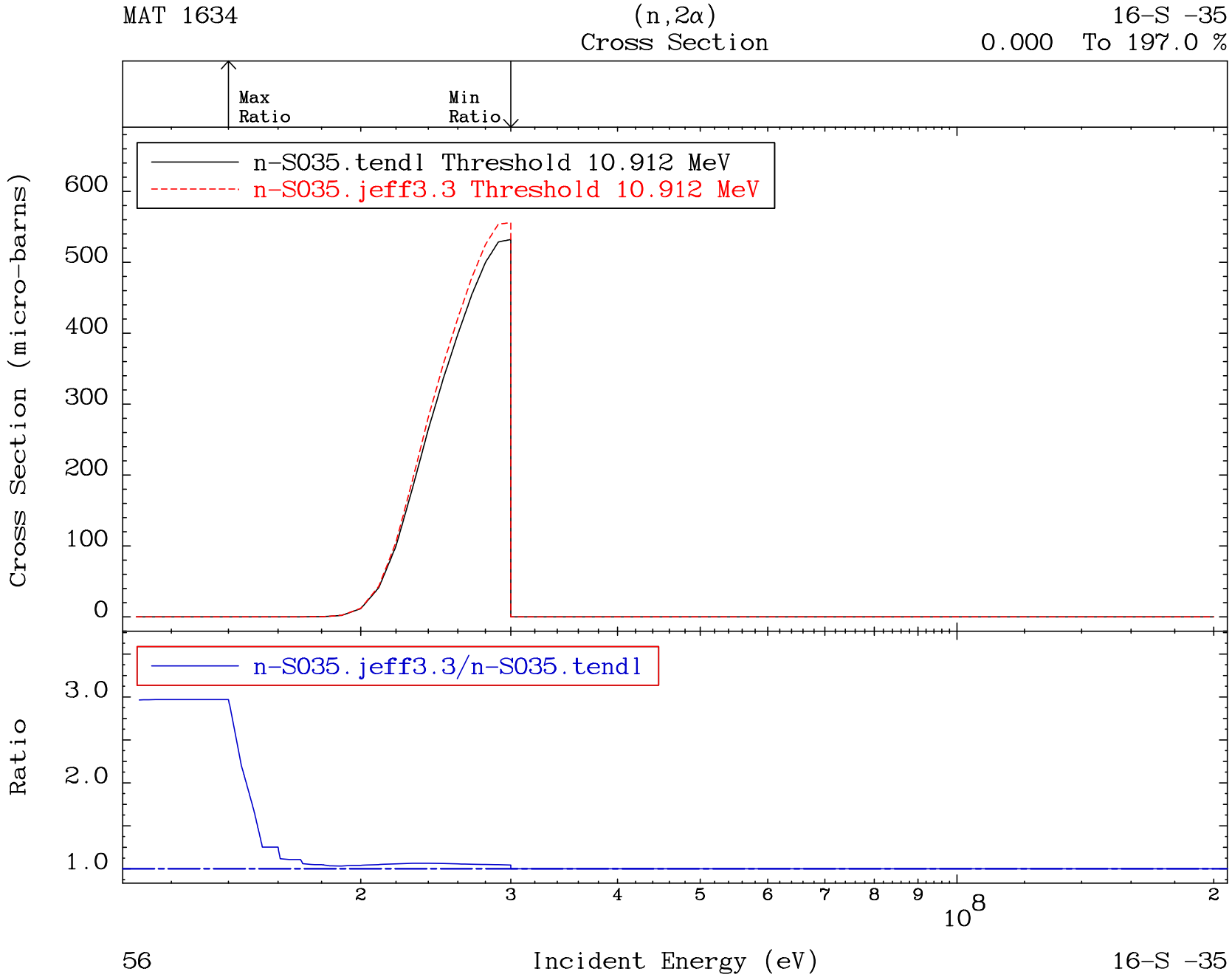

MAT 1634
(n,p)
Cross Section
16-S -35
-1.527 To 0.006 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 3.2985 MeV
n-S035.jeff3.3 Threshold 3.2985 MeV
Cross Section (milli-barns)
60
40
20
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
51
Incident Energy (eV)
16-S -35

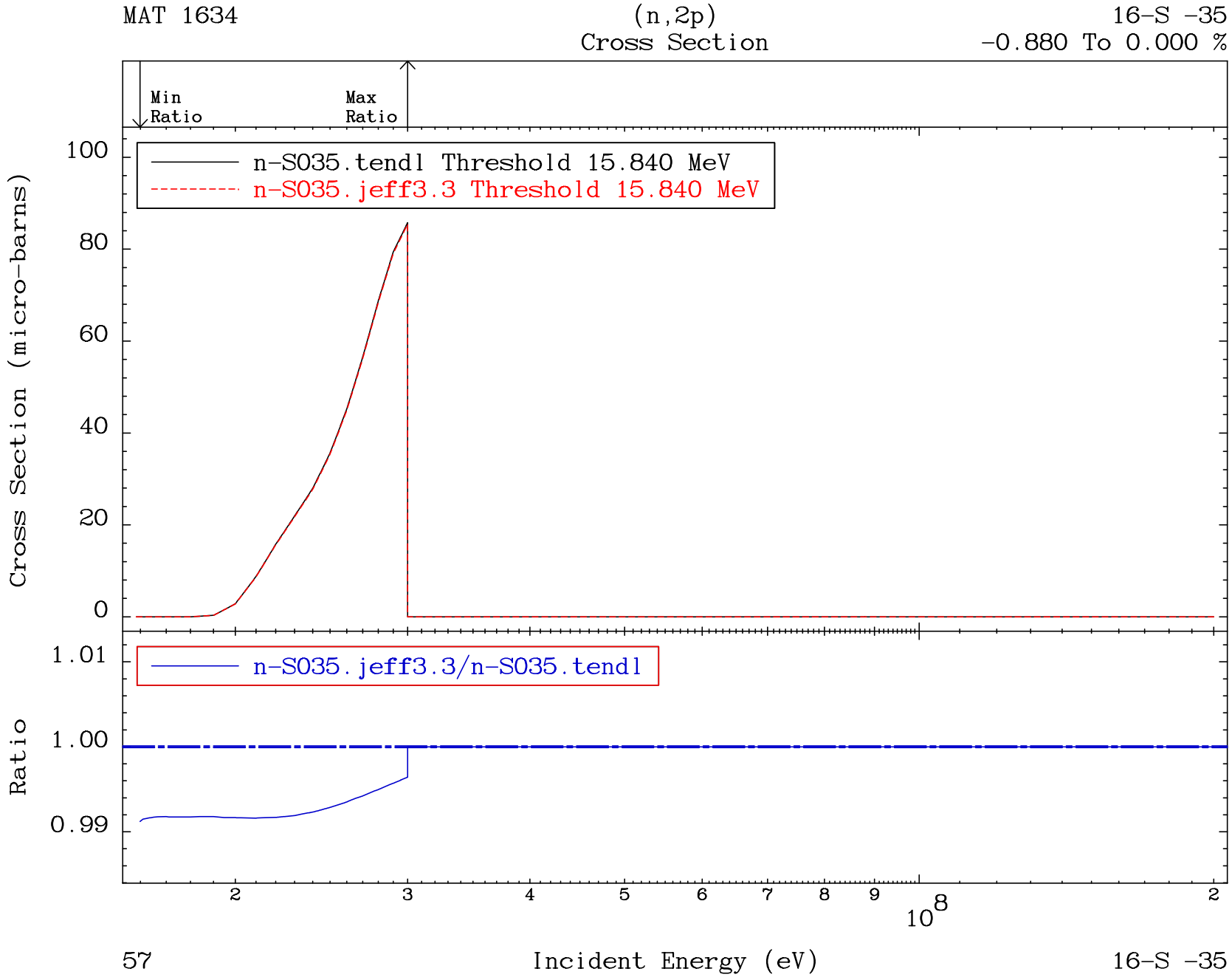

MAT 1634
(n,d)
Cross Section
16-S -35
-0.421 To 0.018 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 9.6320 MeV
n-S035.jeff3.3 Threshold 9.6320 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
10^7
2
3
4
5
6
7
8
9
10^8
2
52
Incident Energy (eV)
16-S -35

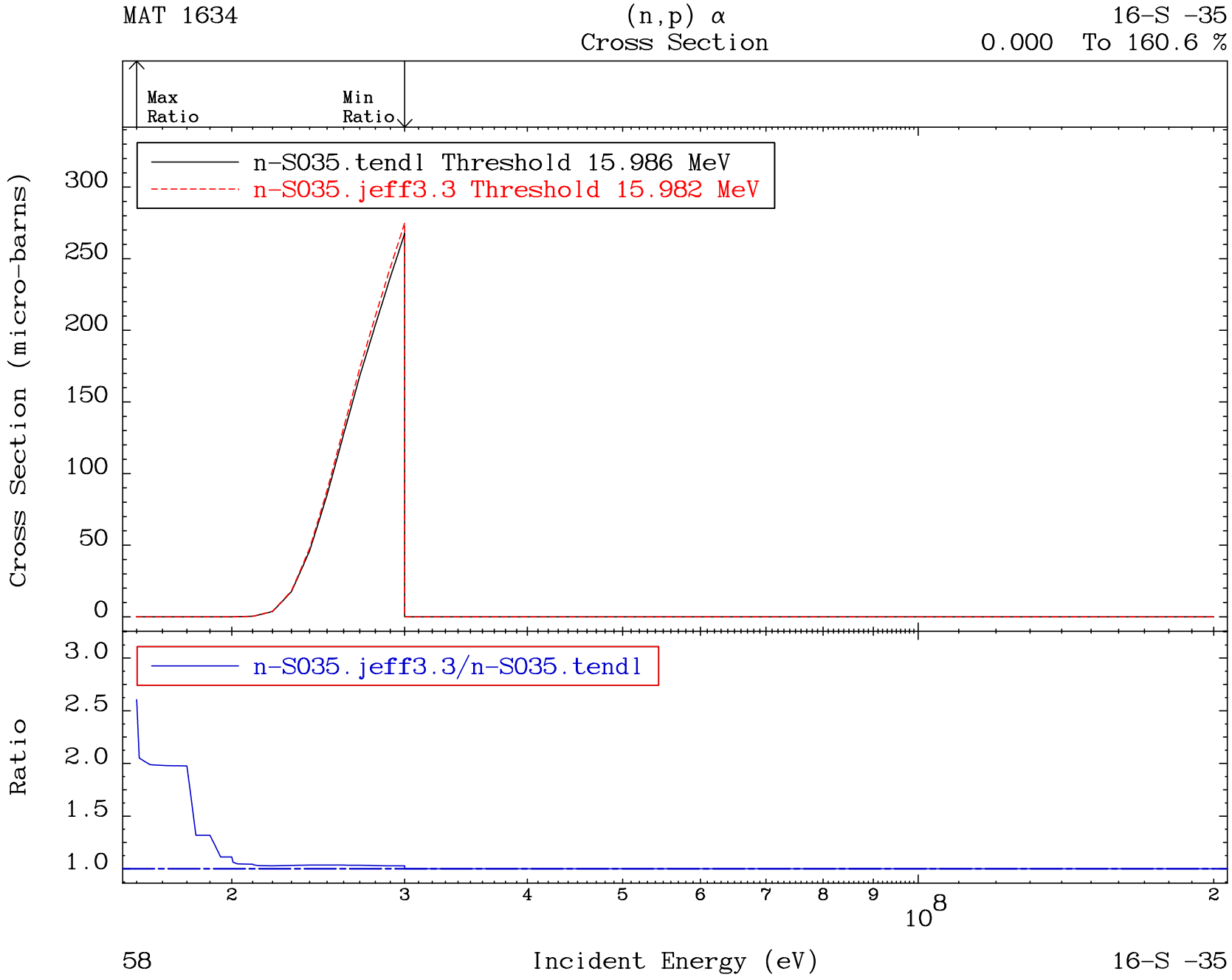

MAT 1634
(n,t)
Cross Section
16-S -35
-0.430 To 0.004 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 9.6581 MeV
n-S035.jeff3.3 Threshold 9.6581 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-S035.jeff3.3/n-S035.tendl
Ratio
0.99
1.00
1.01
10^7
2
3
4
5
6
7
8
9
10^8
2
53
Incident Energy (eV)
16-S -35

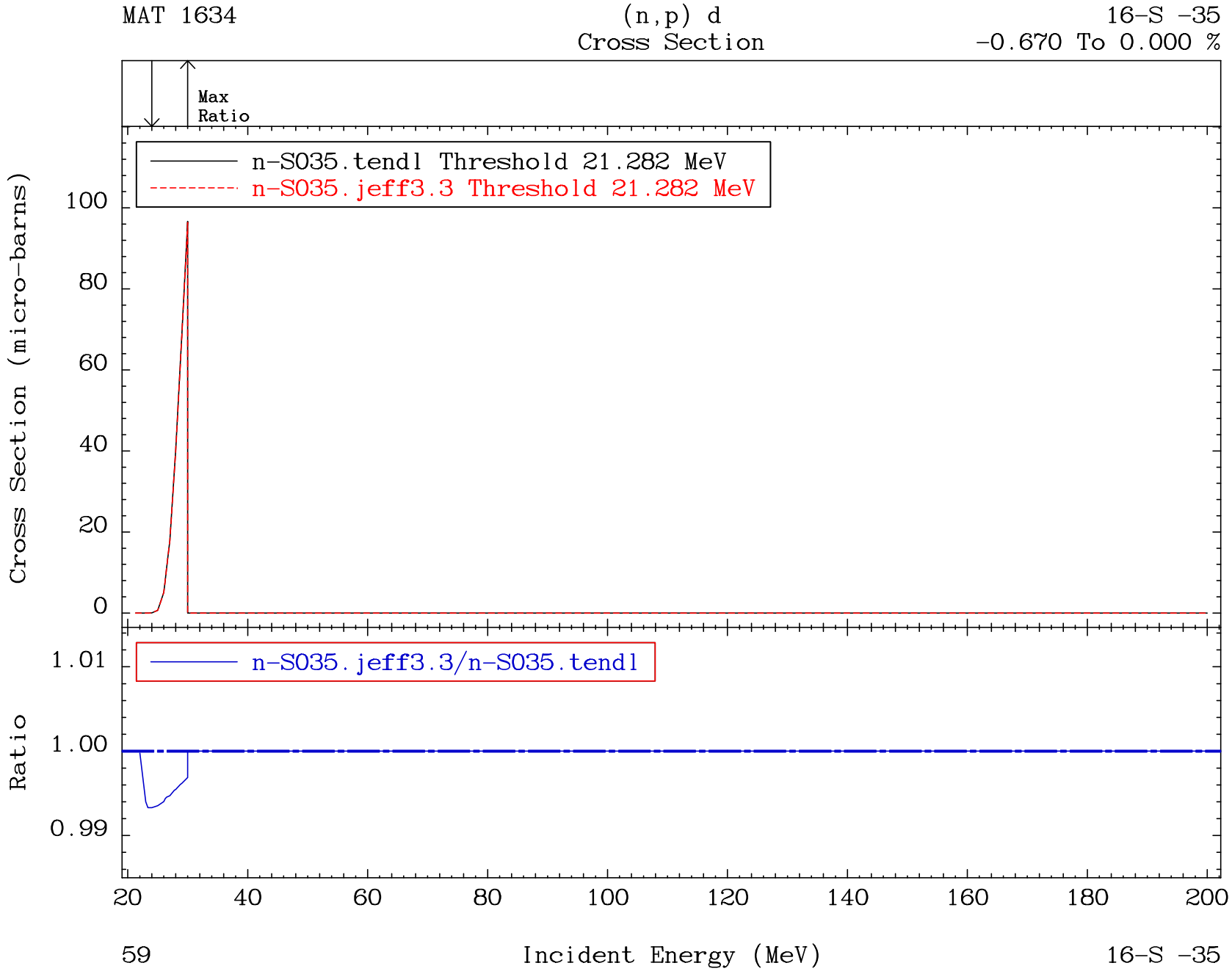

MAT 1634
(n,He-3)
Cross Section
16-S -35
-0.806 To 0.018 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 15.630 MeV
n-S035.jeff3.3 Threshold 15.630 MeV
Cross Section (micro-barns)
350
300
250
200
150
100
50
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
2
10^8
54
Incident Energy (eV)
16-S -35

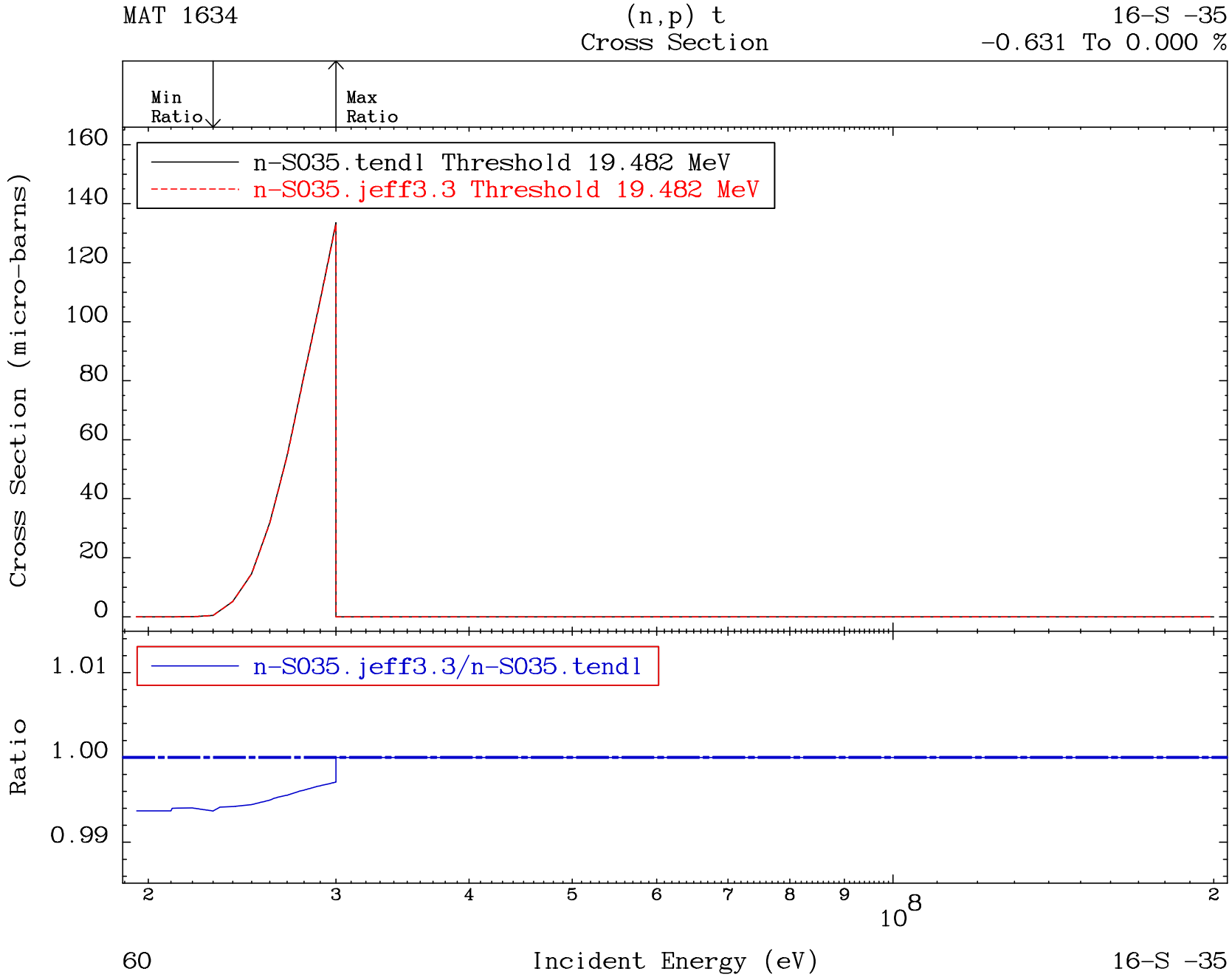

MAT 1634
(n,α)
Cross Section
16-S -35
-2.376 To 113.0 %
Max Ratio
Min Ratio
n-S035.tendl
n-S035.jeff3.3
Cross Section (barns)
n-S035.jeff3.3/n-S035.tendl
Ratio
Incident Energy (eV)
55
16-S -35

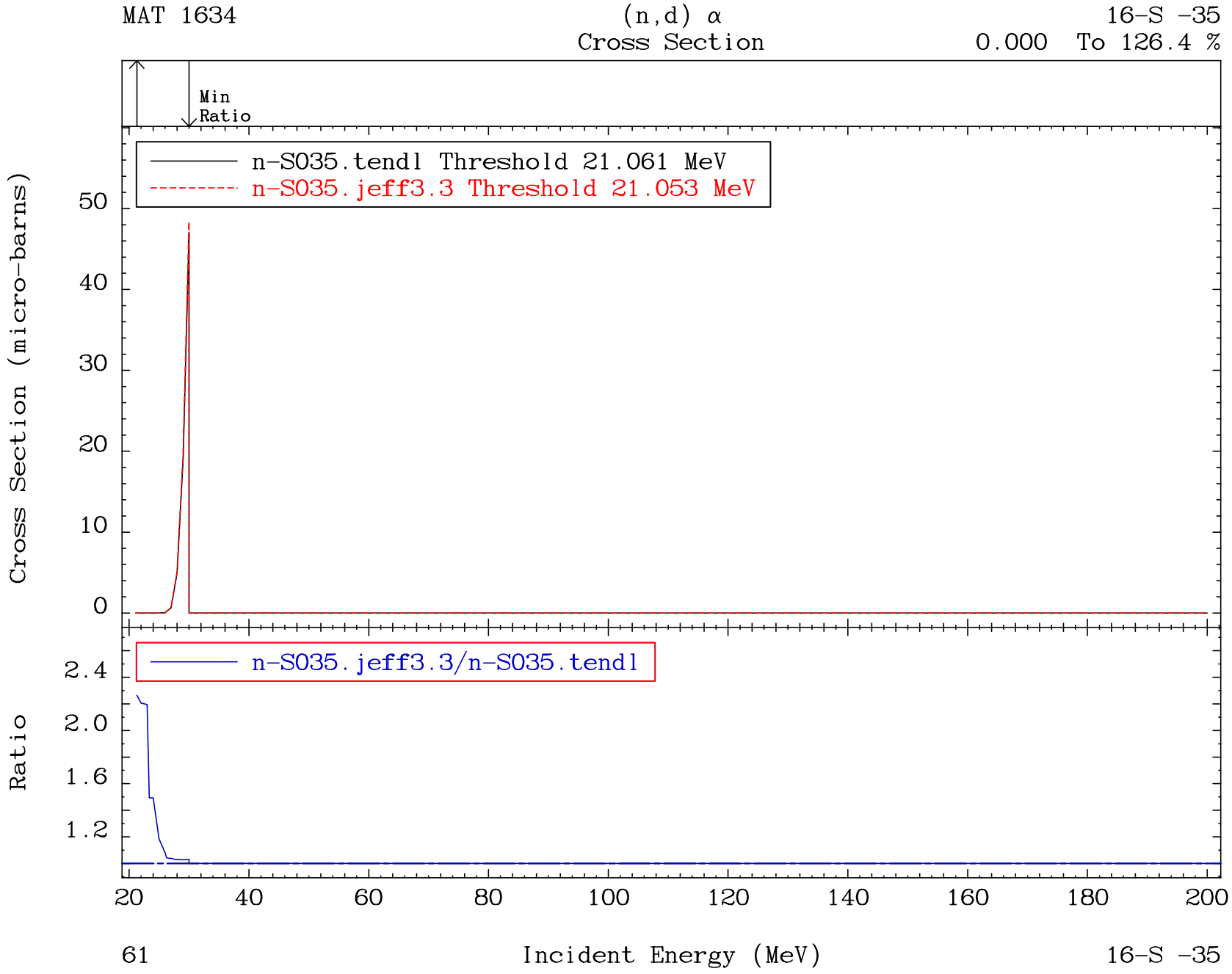

MAT 1634
(n,2α)
Cross Section
16-S -35
0.000 To 197.0 %
Max Ratio
Min Ratio
n-S035.tendl Threshold 10.912 MeV
n-S035.jeff3.3 Threshold 10.912 MeV
Cross Section (micro-barns)
600
500
400
300
200
100
0
n-S035.jeff3.3/n-S035.tendl
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
56
Incident Energy (eV)
16-S -35

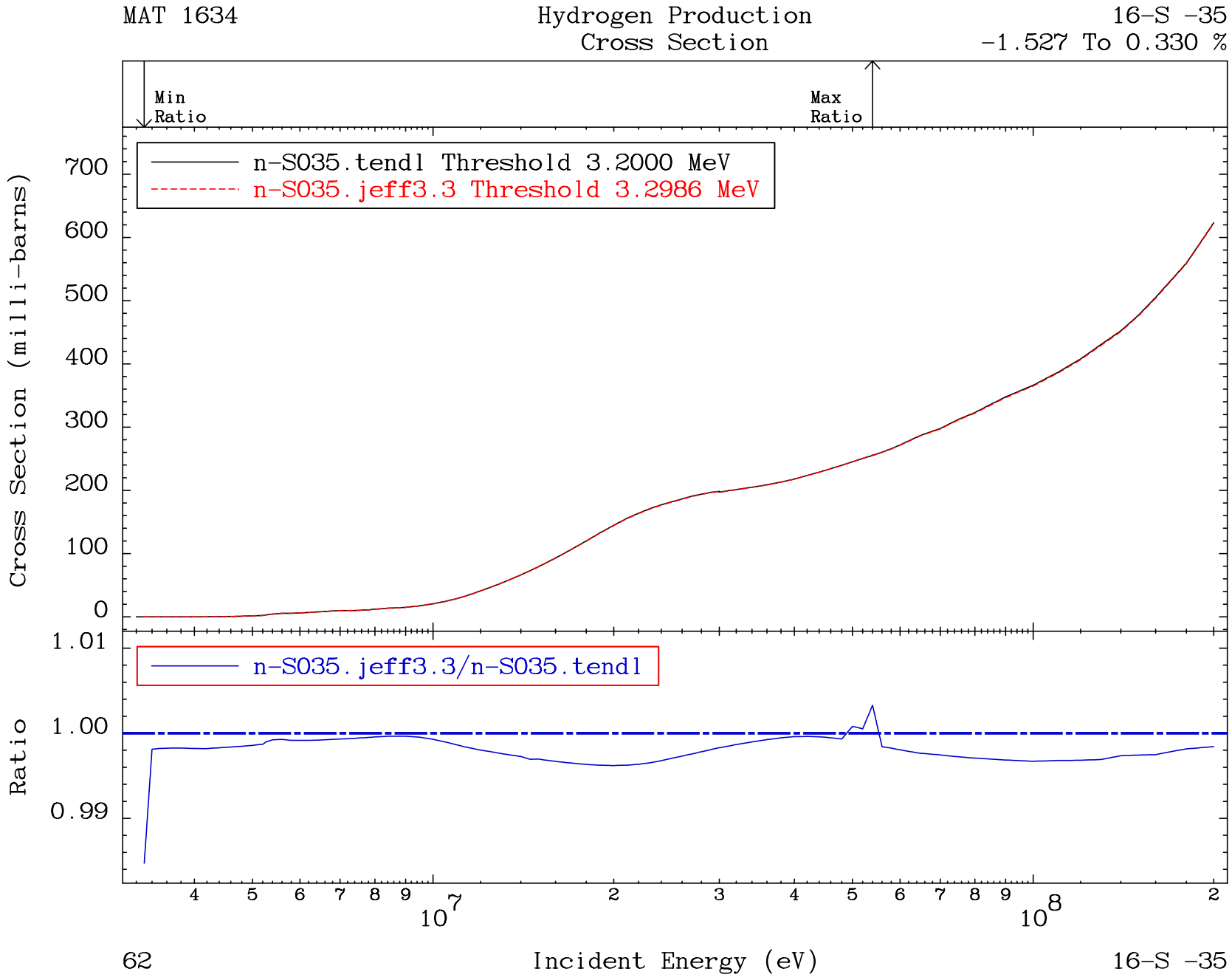

MAT 1634
(n,2p)
Cross Section
16-S -35
-0.880 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 15.840 MeV
n-S035.jeff3.3 Threshold 15.840 MeV
Cross Section (micro-barns)
100
80
60
40
20
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
57
Incident Energy (eV)
16-S -35

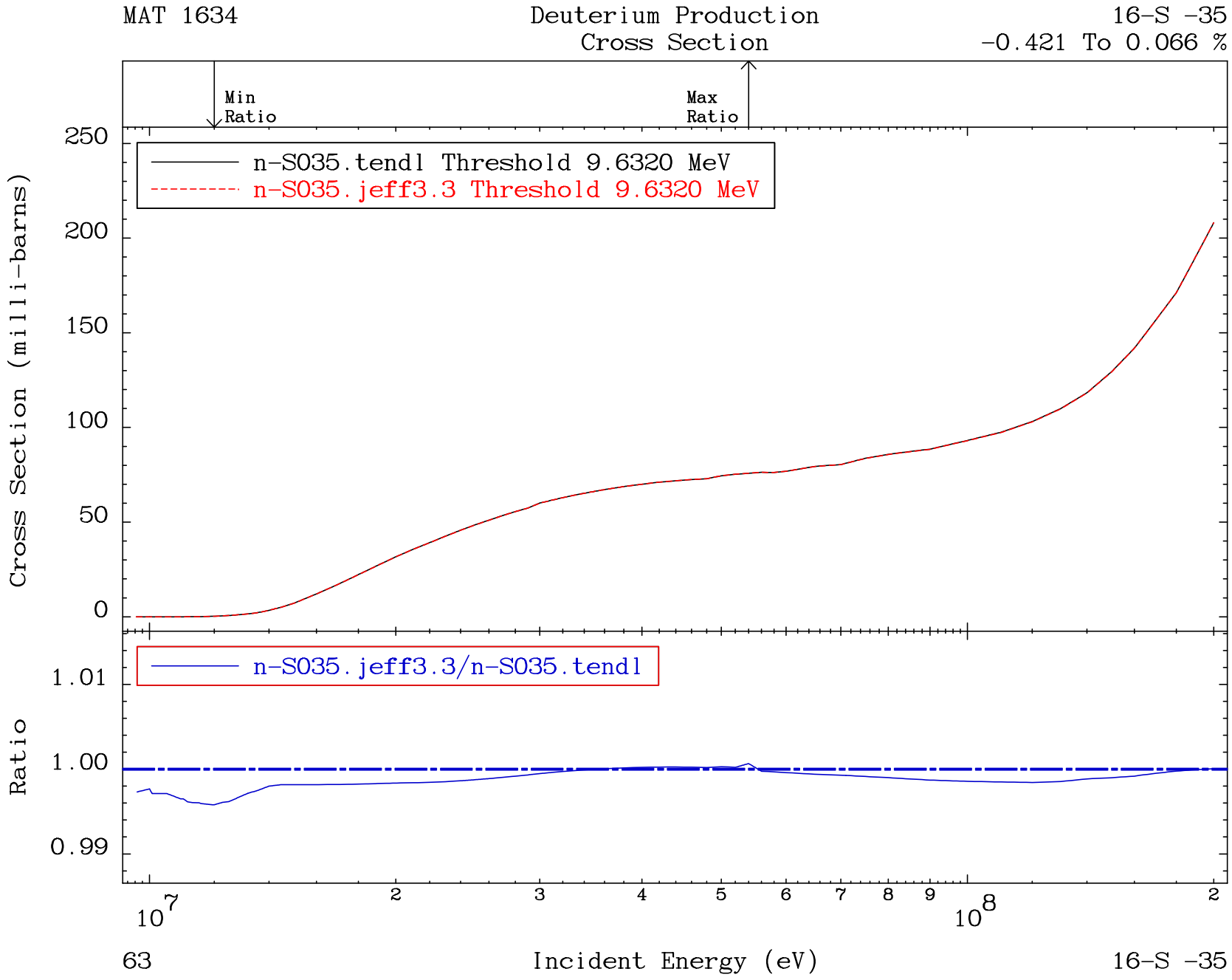

MAT 1634
(n,p) α
Cross Section
16-S -35
0.000 To 160.6 %
Max Ratio
Min Ratio
n-S035.tendl Threshold 15.986 MeV
n-S035.jeff3.3 Threshold 15.982 MeV
Cross Section (micro-barns)
300
250
200
150
100
50
0
n-S035.jeff3.3/n-S035.tendl
Ratio
3.0
2.5
2.0
1.5
1.0
2
3
4
5
6
7
8
9
2
10^8
58
Incident Energy (eV)
16-S -35

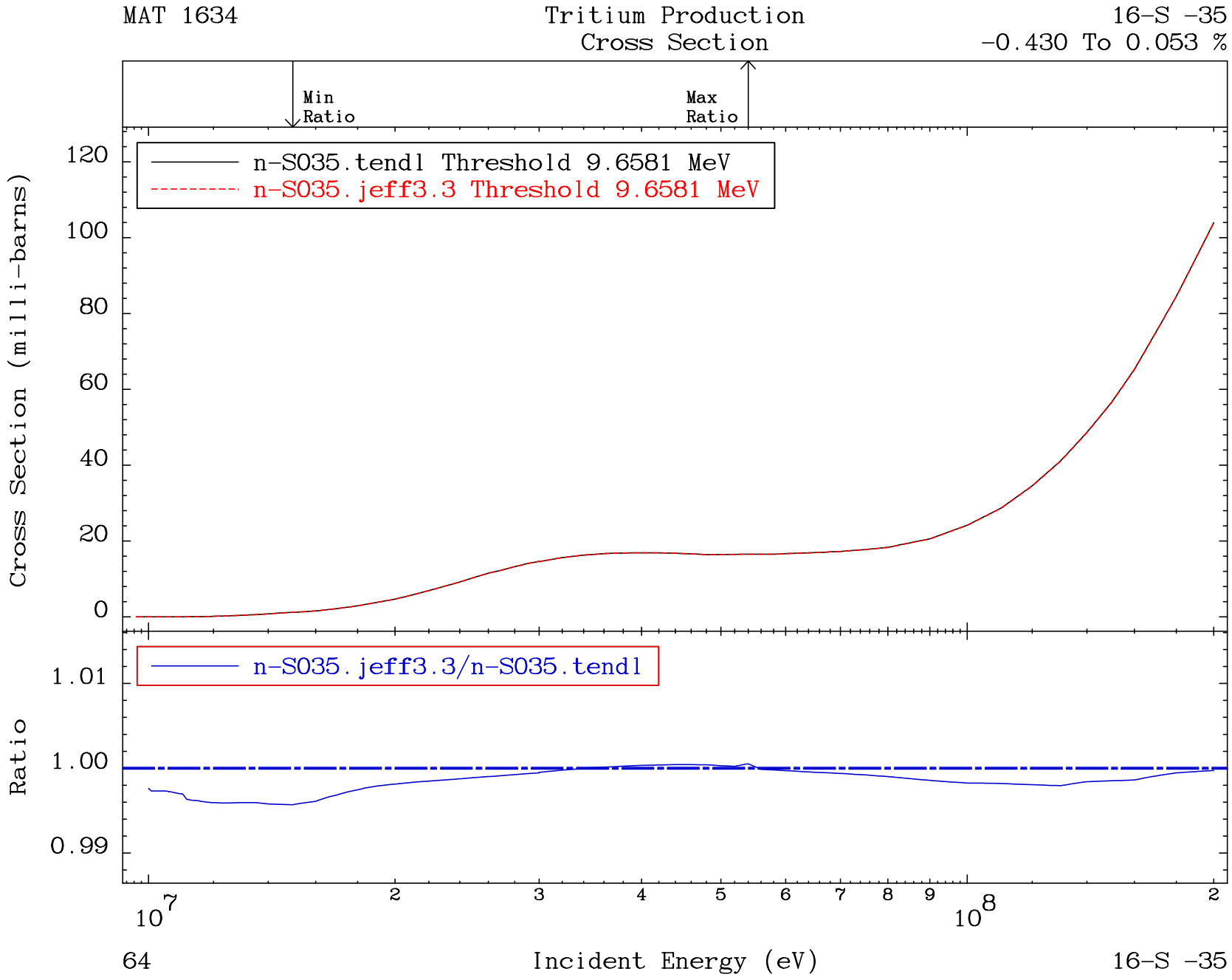

MAT 1634
(n,p) d
Cross Section
16-S -35
-0.670 To 0.000 %
Max
Ratio
n-S035.tendl Threshold 21.282 MeV
n-S035.jeff3.3 Threshold 21.282 MeV
Cross Section (micro-barns)
100
80
60
40
20
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
20
40
60
80
100
120
140
160
180
200
59
Incident Energy (MeV)
16-S -35

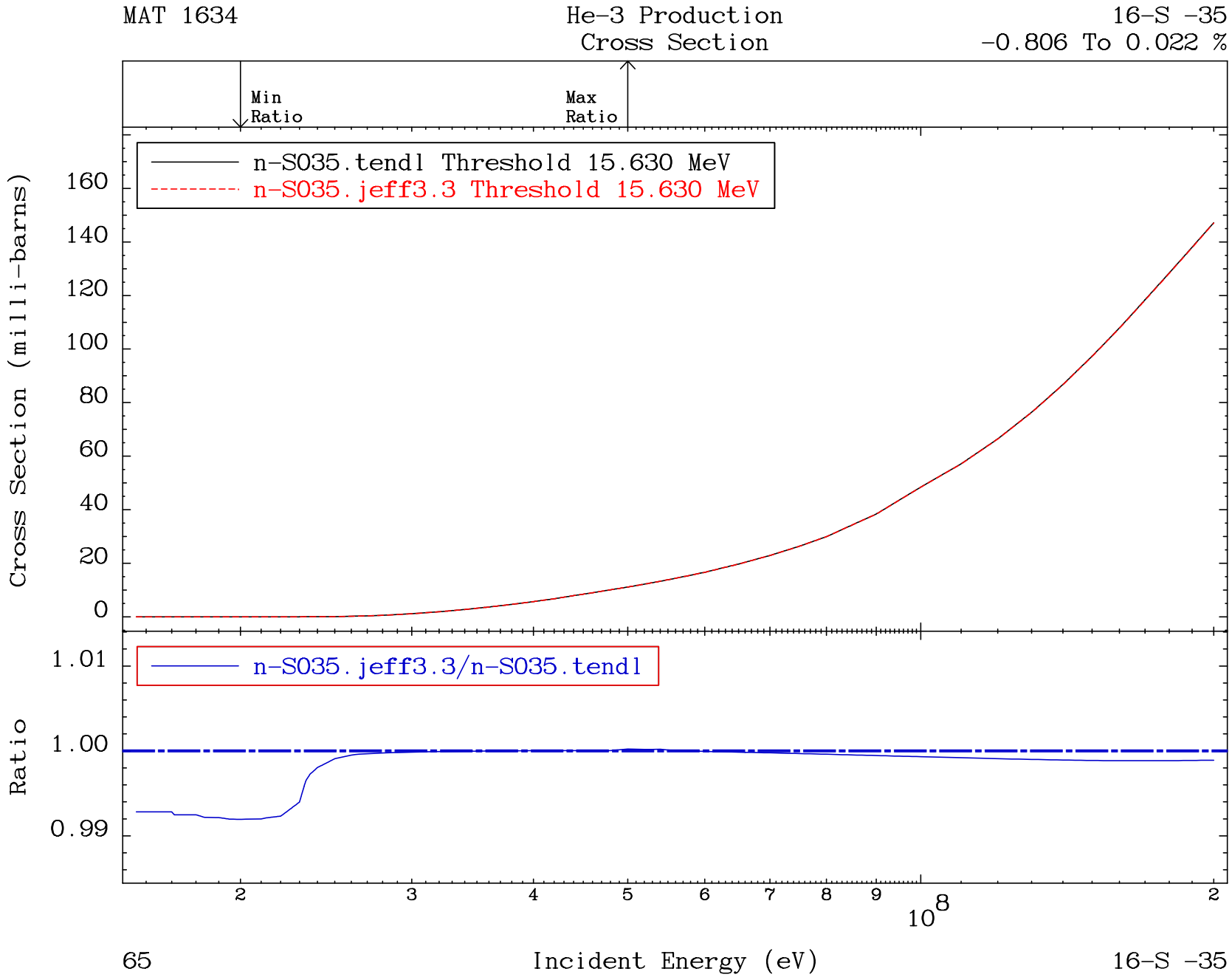

MAT 1634
(n,p) t
Cross Section
16-S -35
-0.631 To 0.000 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 19.482 MeV
n-S035.jeff3.3 Threshold 19.482 MeV
Cross Section (micro-barns)
160
140
120
100
80
60
40
20
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
2
10^8
60
Incident Energy (eV)
16-S -35

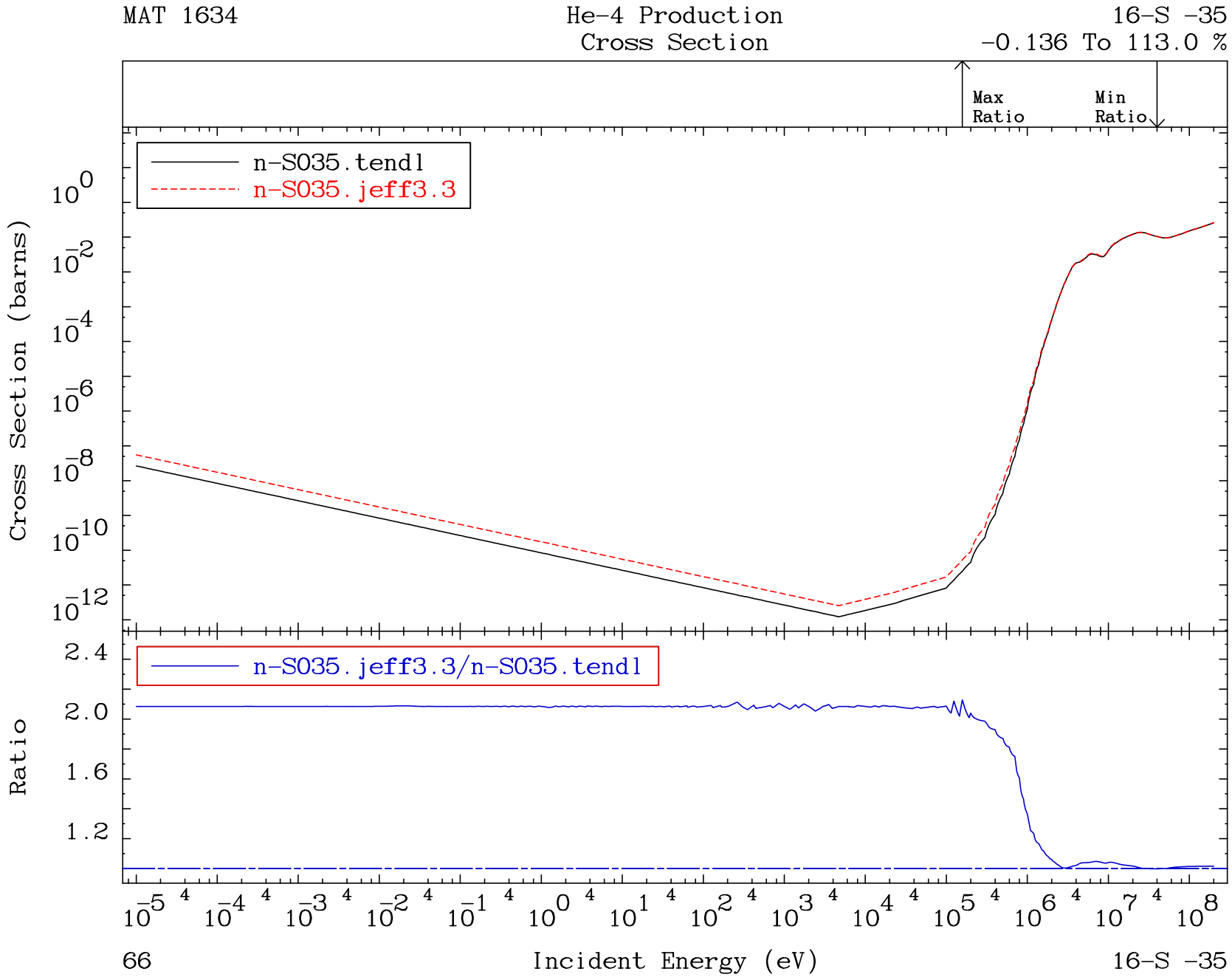

MAT 1634
(n,d) α
Cross Section
16-S -35
0.000 To 126.4 %
Min
Ratio
n-S035.tendl Threshold 21.061 MeV
n-S035.jeff3.3 Threshold 21.053 MeV
Cross Section (micro-barns)
50
40
30
20
10
0
n-S035.jeff3.3/n-S035.tendl
Ratio
2.4
2.0
1.6
1.2
20
40
60
80
100
120
140
160
180
200
61
Incident Energy (MeV)
16-S -35

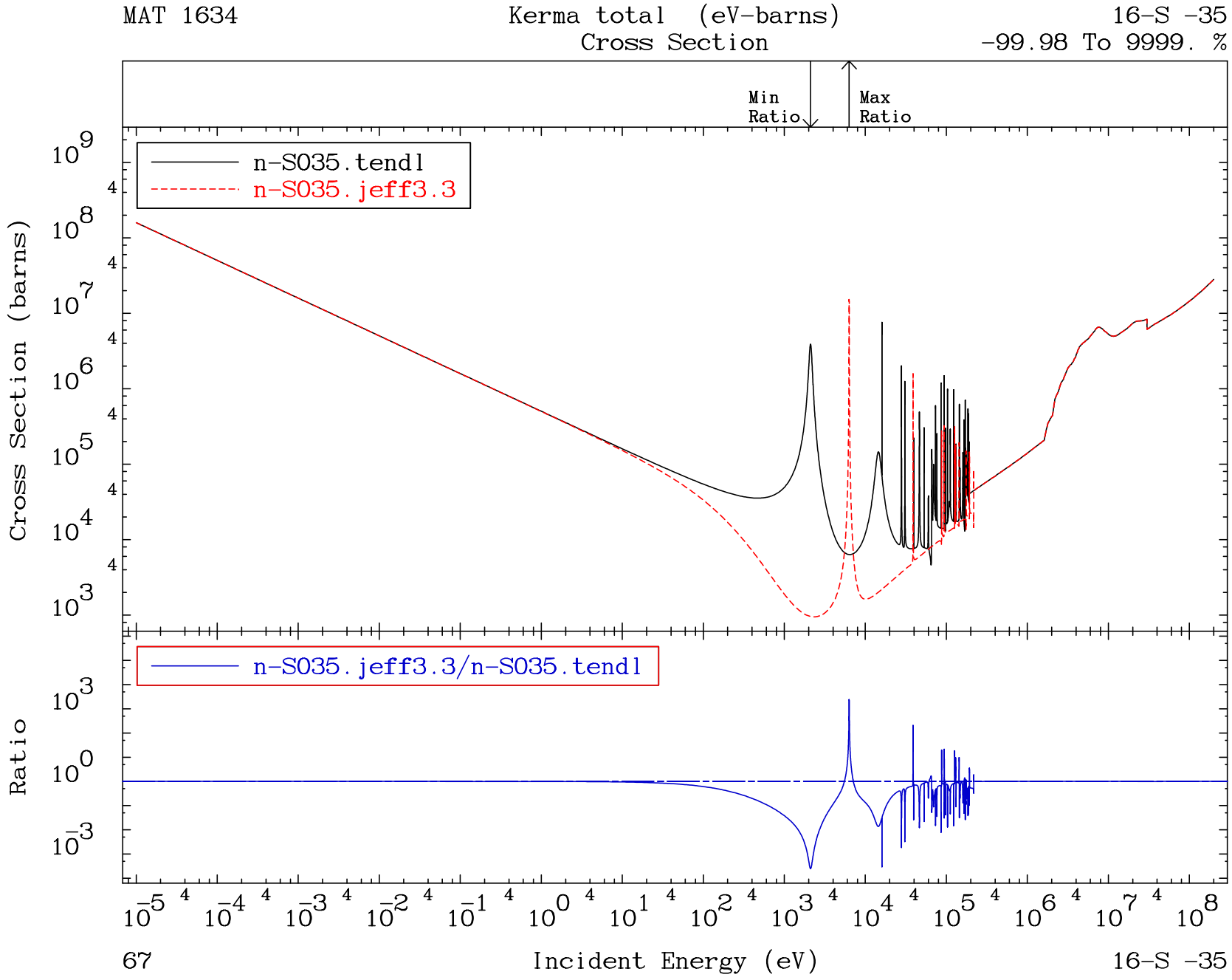

MAT 1634
Hydrogen Production
Cross Section
16-S -35
-1.527 To 0.330 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 3.2000 MeV
n-S035.jeff3.3 Threshold 3.2986 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
1.01
1.00
0.99
Ratio
n-S035.jeff3.3/n-S035.tendl
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
62
Incident Energy (eV)
16-S -35

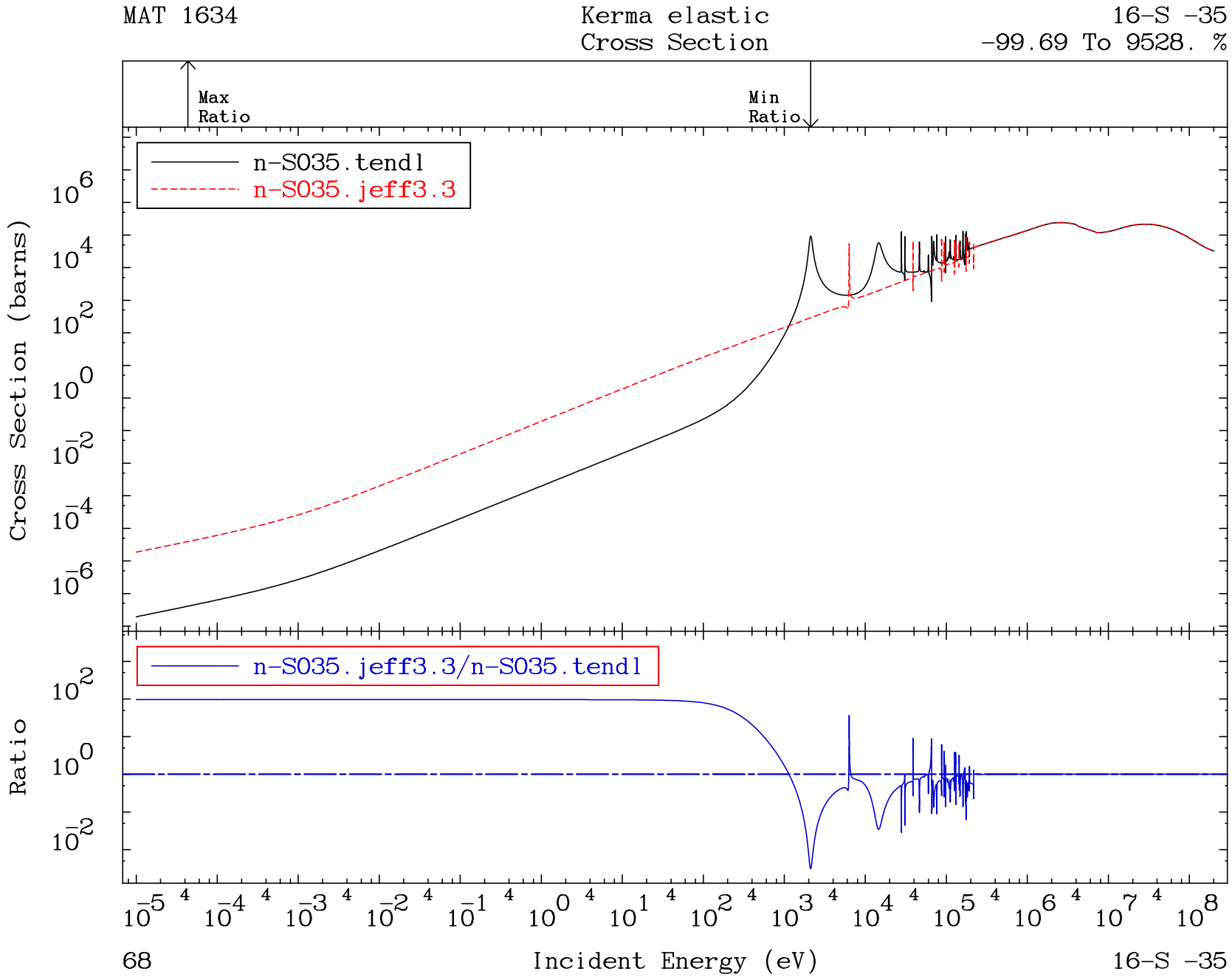

MAT 1634
Deuterium Production
Cross Section
16-S -35
-0.421 To 0.066 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 9.6320 MeV
n-S035.jeff3.3 Threshold 9.6320 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
10^7
2
3
4
5
6
7
8
9
10^8
2
63
Incident Energy (eV)
16-S -35

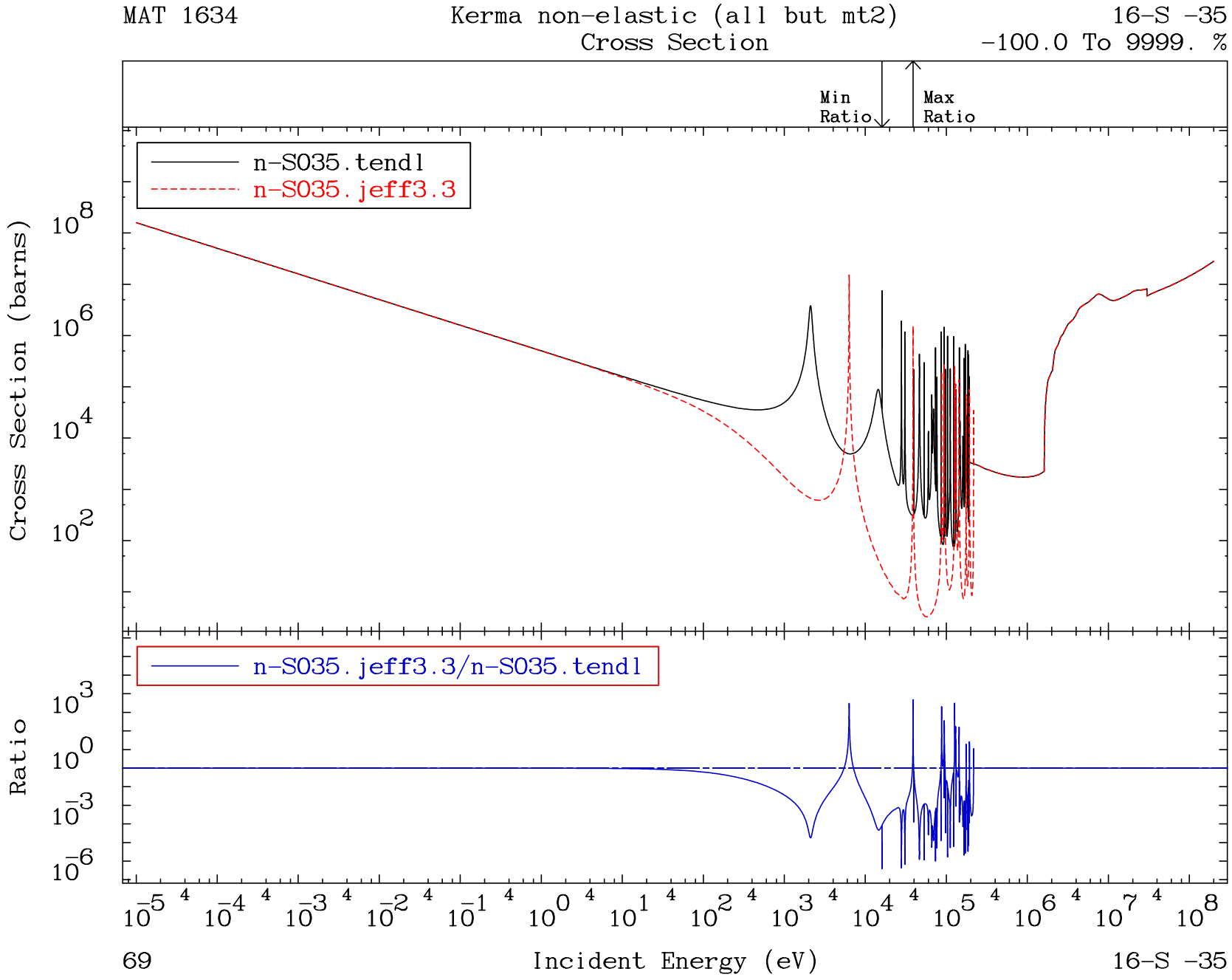

MAT 1634
Tritium Production
Cross Section
16-S -35
-0.430 To 0.053 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 9.6581 MeV
n-S035.jeff3.3 Threshold 9.6581 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
10^7
2
3
4
5
6
7
8
9
10^8
2
64
Incident Energy (eV)
16-S -35

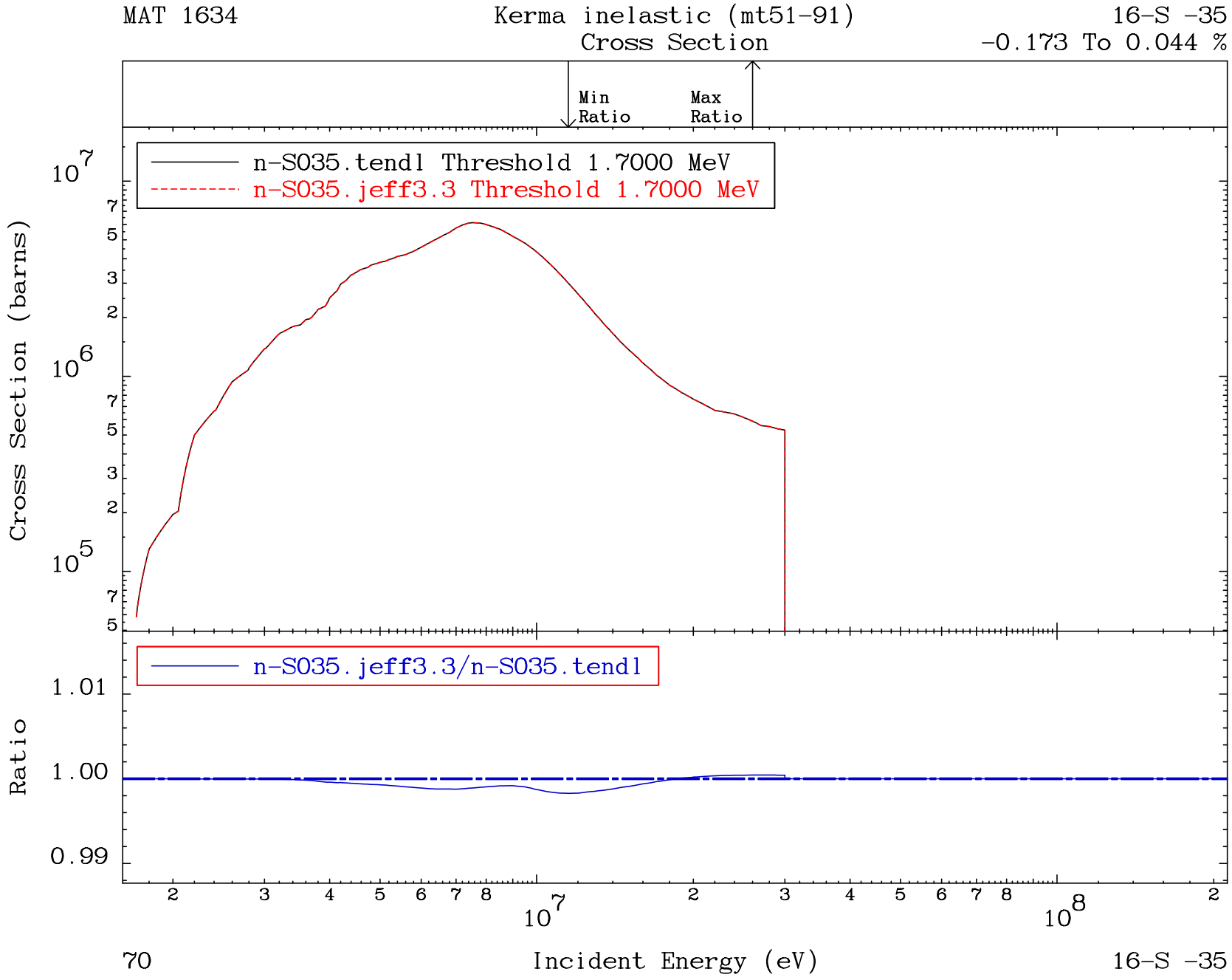

MAT 1634
He-3 Production
Cross Section
16-S -35
-0.806 To 0.022 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 15.630 MeV
n-S035.jeff3.3 Threshold 15.630 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
65
Incident Energy (eV)
16-S -35

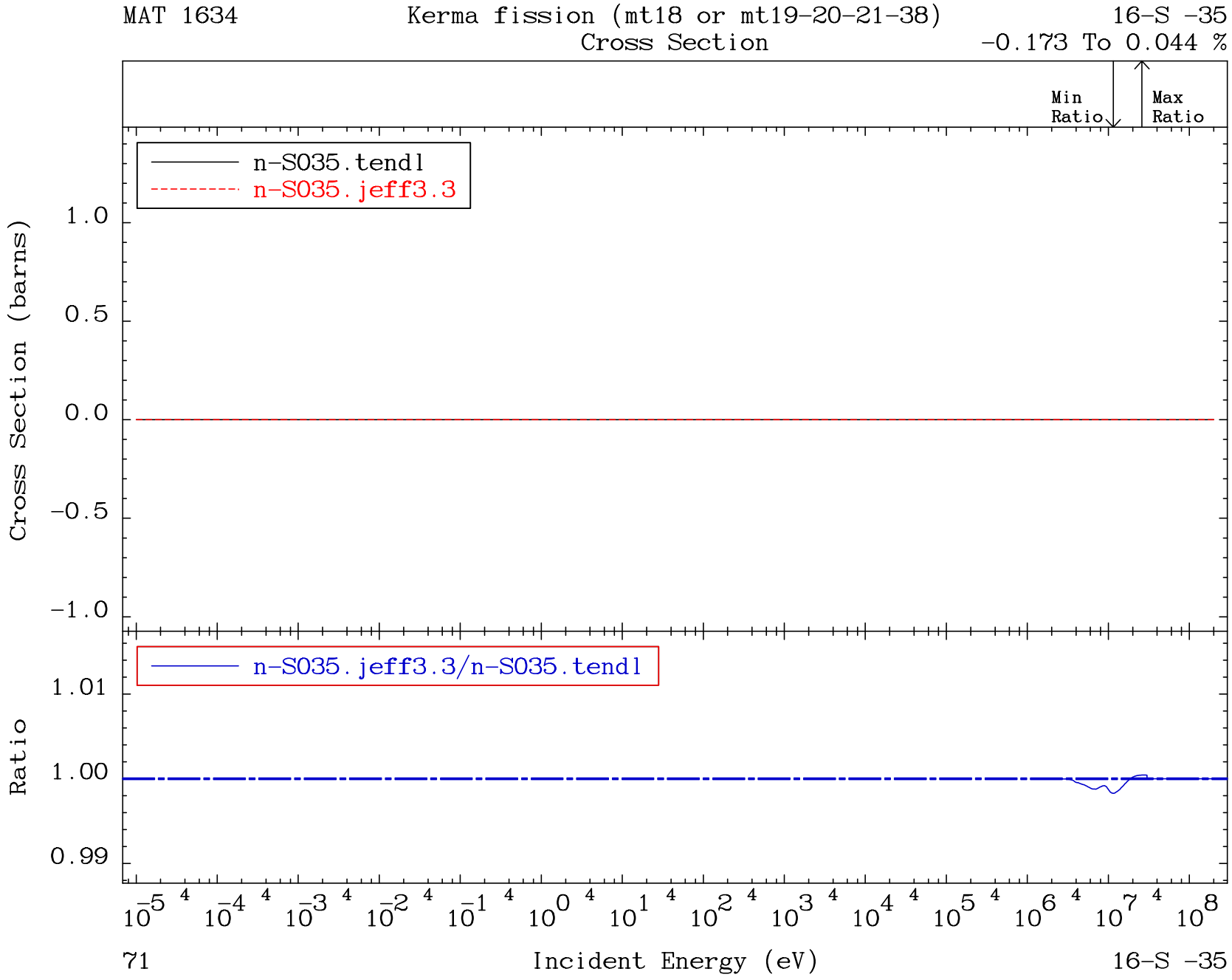

MAT 1634
He-4 Production
Cross Section
16-S -35
-0.136 To 113.0 %
Max Ratio
Min Ratio
n-S035.tendl
n-S035.jeff3.3
Cross Section (barns)
n-S035.jeff3.3/n-S035.tendl
Ratio
Incident Energy (eV)
66
16-S -35

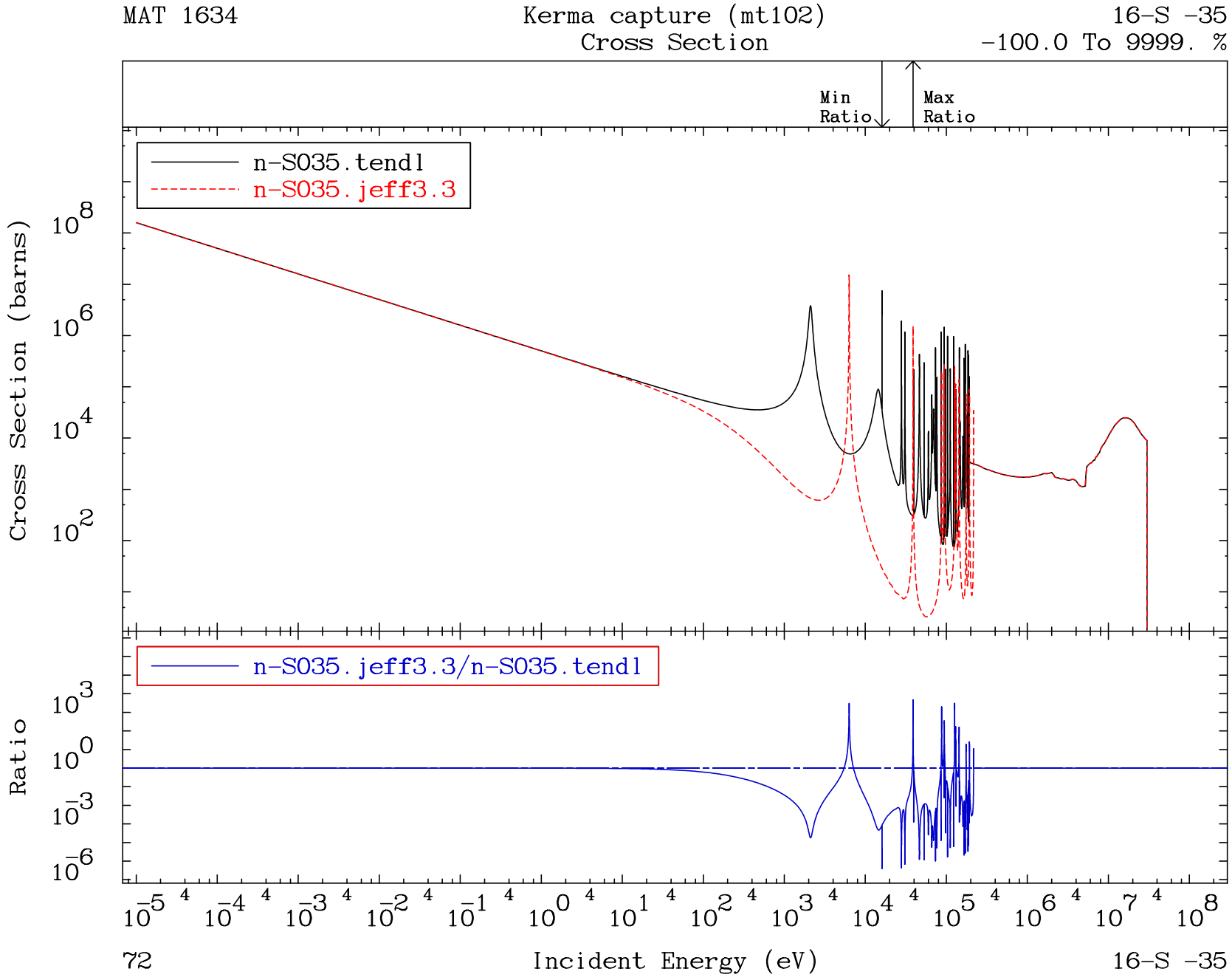

MAT 1634
Kerma total (eV-barns)
Cross Section
16-S -35
-99.98 To 9999. %
Min Ratio
Max Ratio
n-S035.tendl
n-S035.jeff3.3
Cross Section (barns)
n-S035.jeff3.3/n-S035.tendl
Ratio
Incident Energy (eV)
67
16-S -35

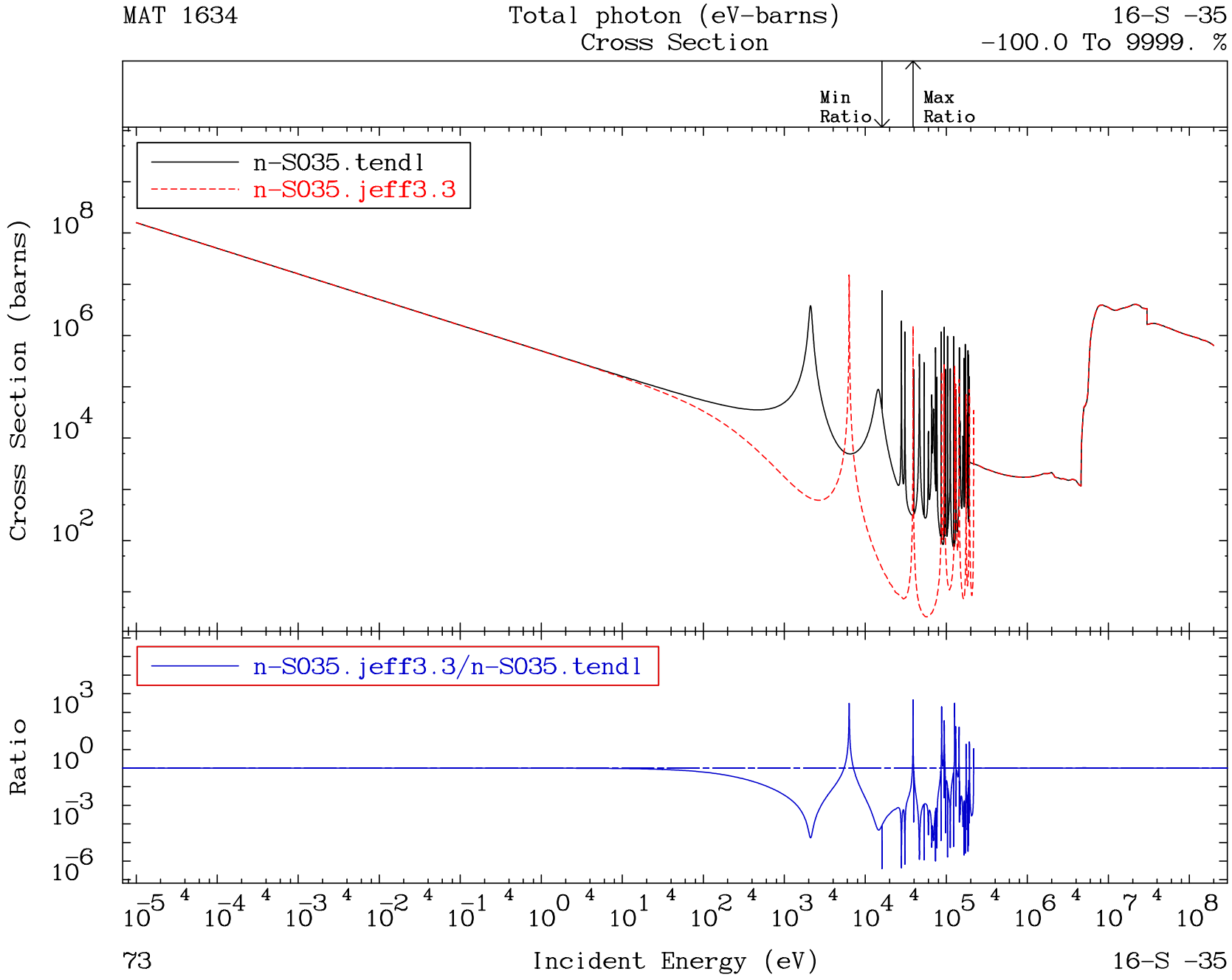

MAT 1634
Kerma elastic
Cross Section
16-S -35
-99.69 To 9528. %
Max
Ratio
Min
Ratio
n-S035.tendl
n-S035.jeff3.3
Cross Section (barns)
n-S035.jeff3.3/n-S035.tendl
Ratio
Incident Energy (eV)
68
16-S -35

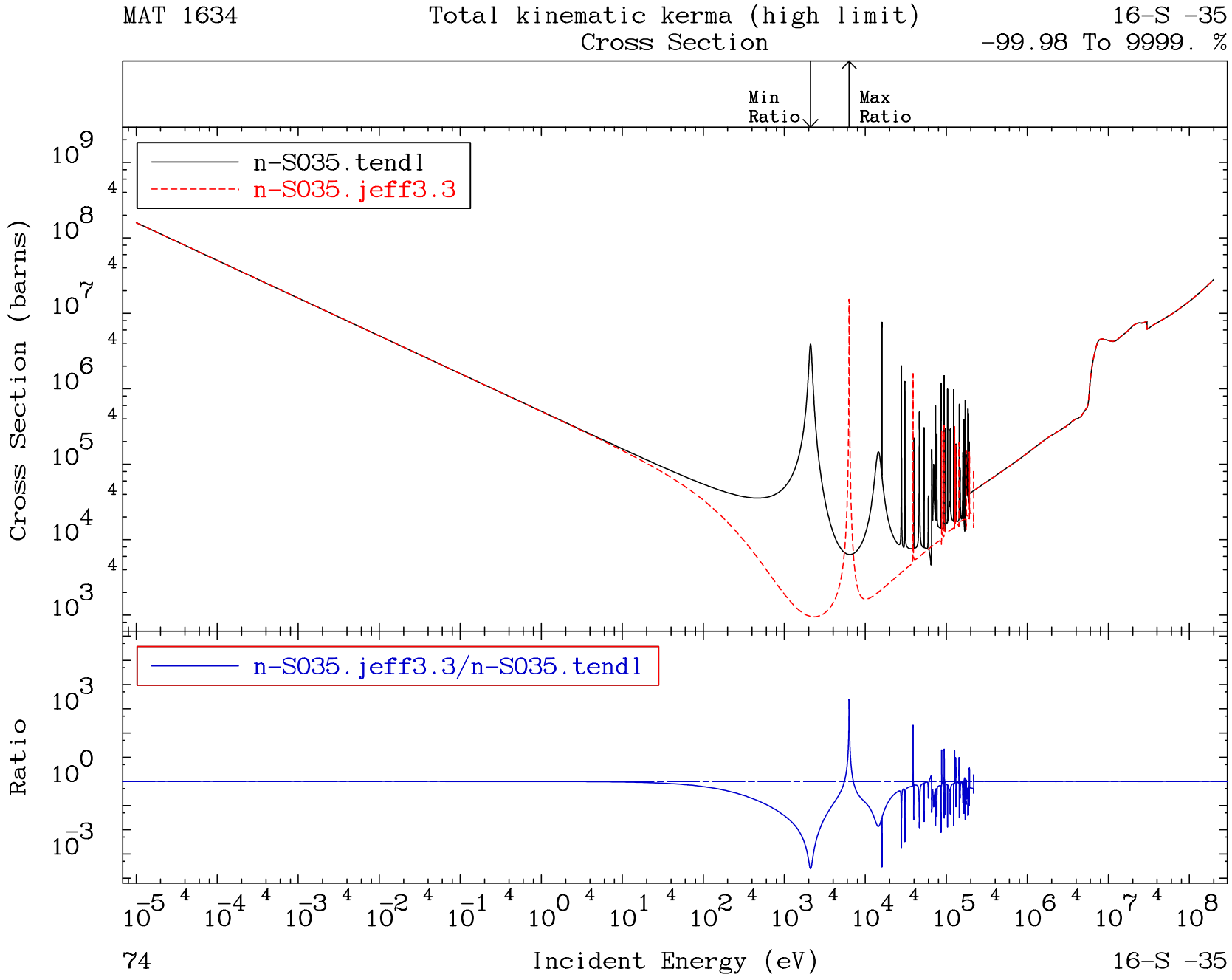

MAT 1634
Kerma non-elastic (all but mt2)
Cross Section
16-S -35
-100.0 To 9999. %
Min Ratio
Max Ratio
n-S035.tendl
n-S035.jeff3.3
Cross Section (barns)
n-S035.jeff3.3/n-S035.tendl
Ratio
Incident Energy (eV)
69
16-S -35

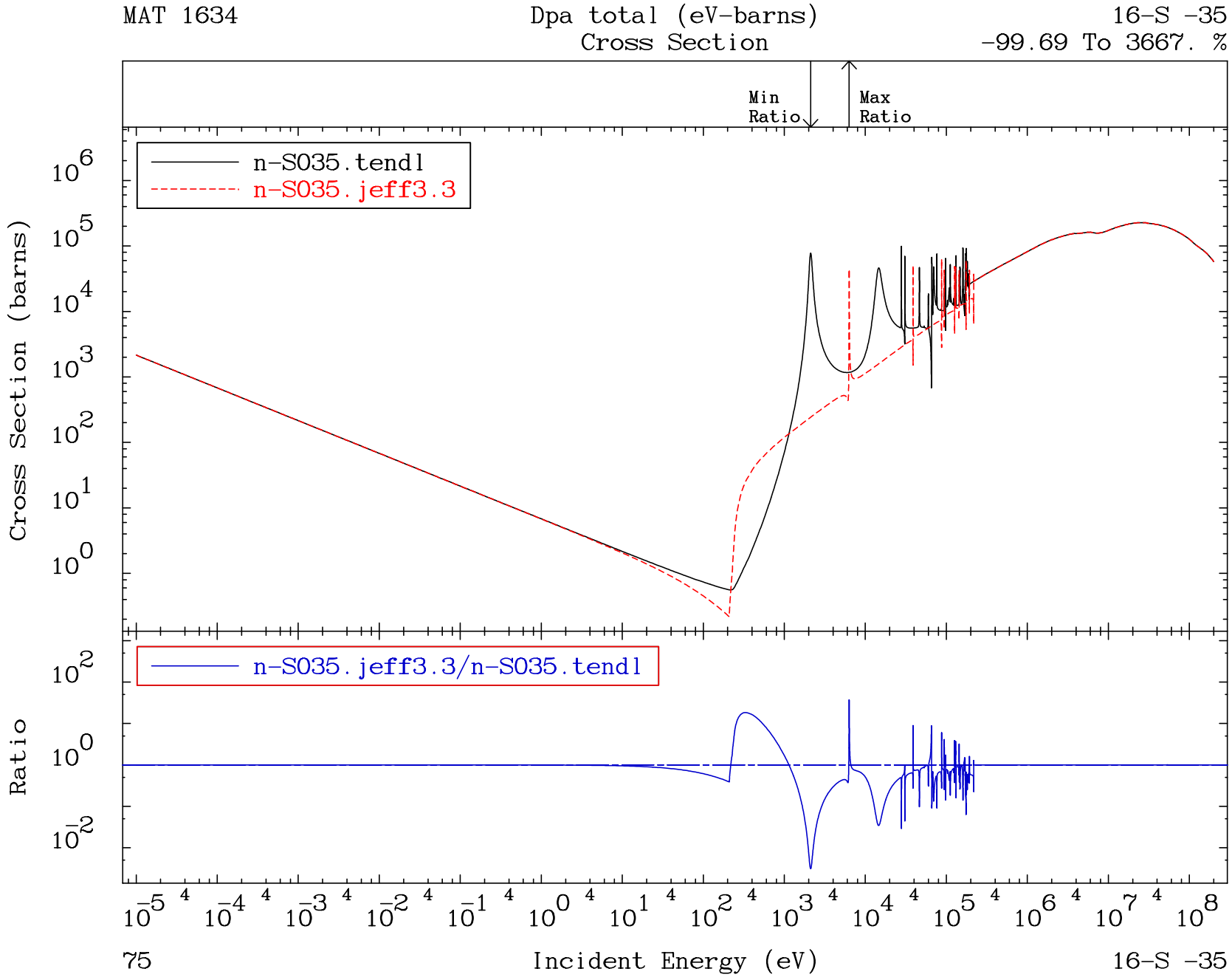

MAT 1634
Kerma inelastic (mt51-91)
Cross Section
16-S -35
-0.173 To 0.044 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 1.7000 MeV
n-S035.jeff3.3 Threshold 1.7000 MeV
Cross Section (barns)
n-S035.jeff3.3/n-S035.tendl
Ratio
Incident Energy (eV)
70
16-S -35

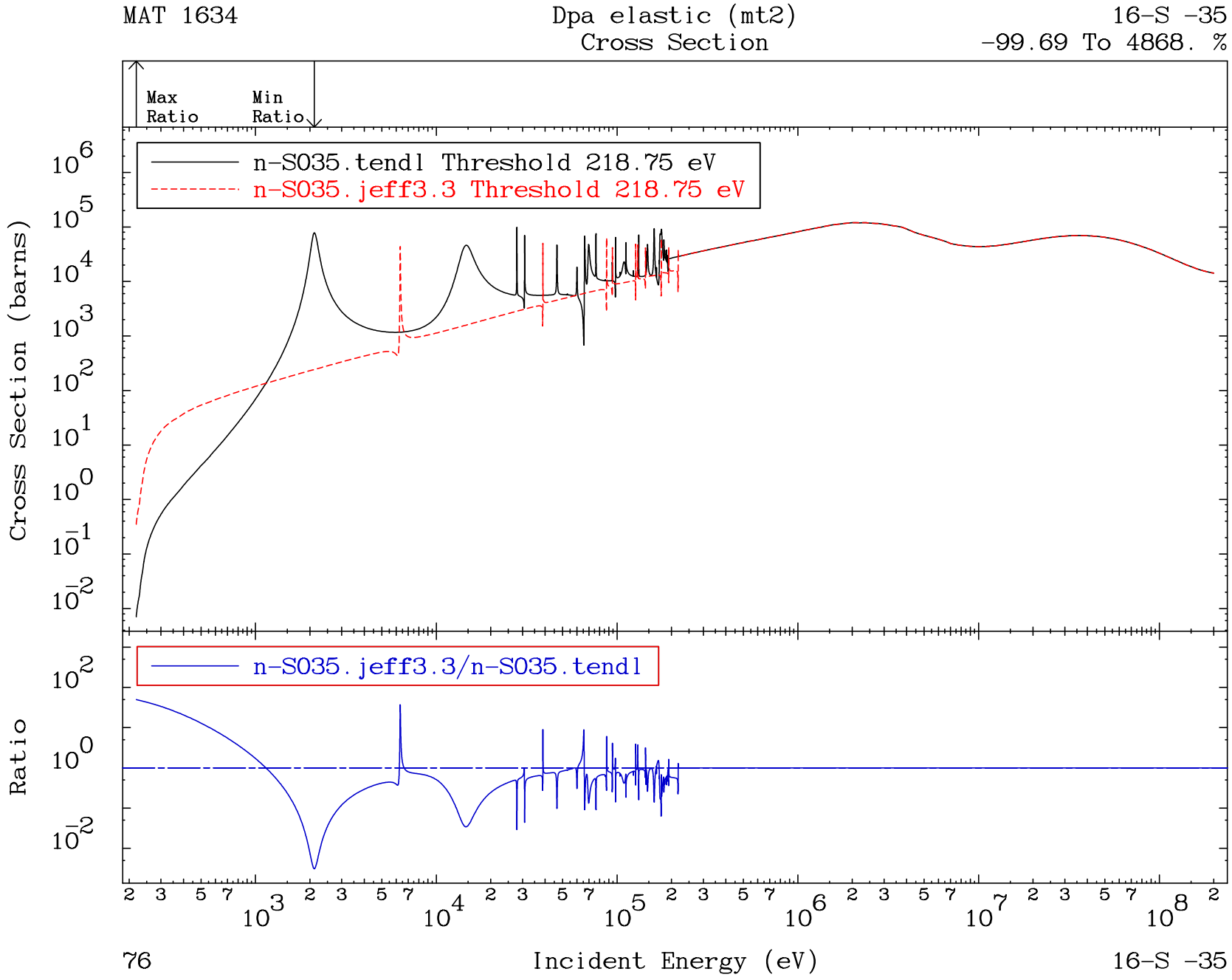

MAT 1634
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
16-S -35
-0.173 To 0.044 %
Min Ratio
Max Ratio
n-S035.tendl
n-S035.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-S035.jeff3.3/n-S035.tendl
Ratio
1.01
1.00
0.99
Incident Energy (eV)
71
16-S -35

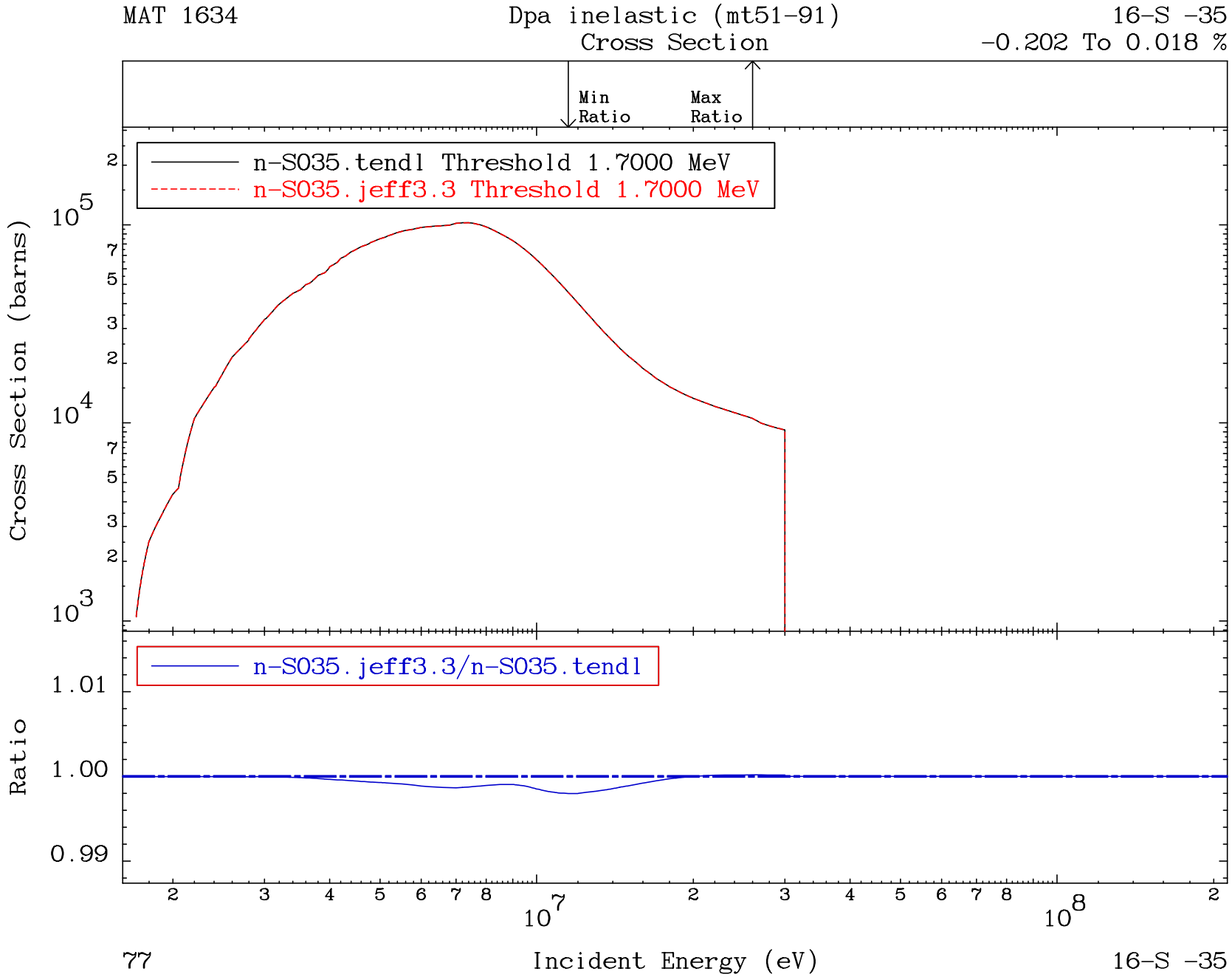

MAT 1634
Kerma capture (mt102)
Cross Section
16-S -35
-100.0 To 9999. %
Min Ratio
Max Ratio
n-S035.tendl
n-S035.jeff3.3
Cross Section (barns)
n-S035.jeff3.3/n-S035.tendl
Ratio
Incident Energy (eV)
72
16-S -35

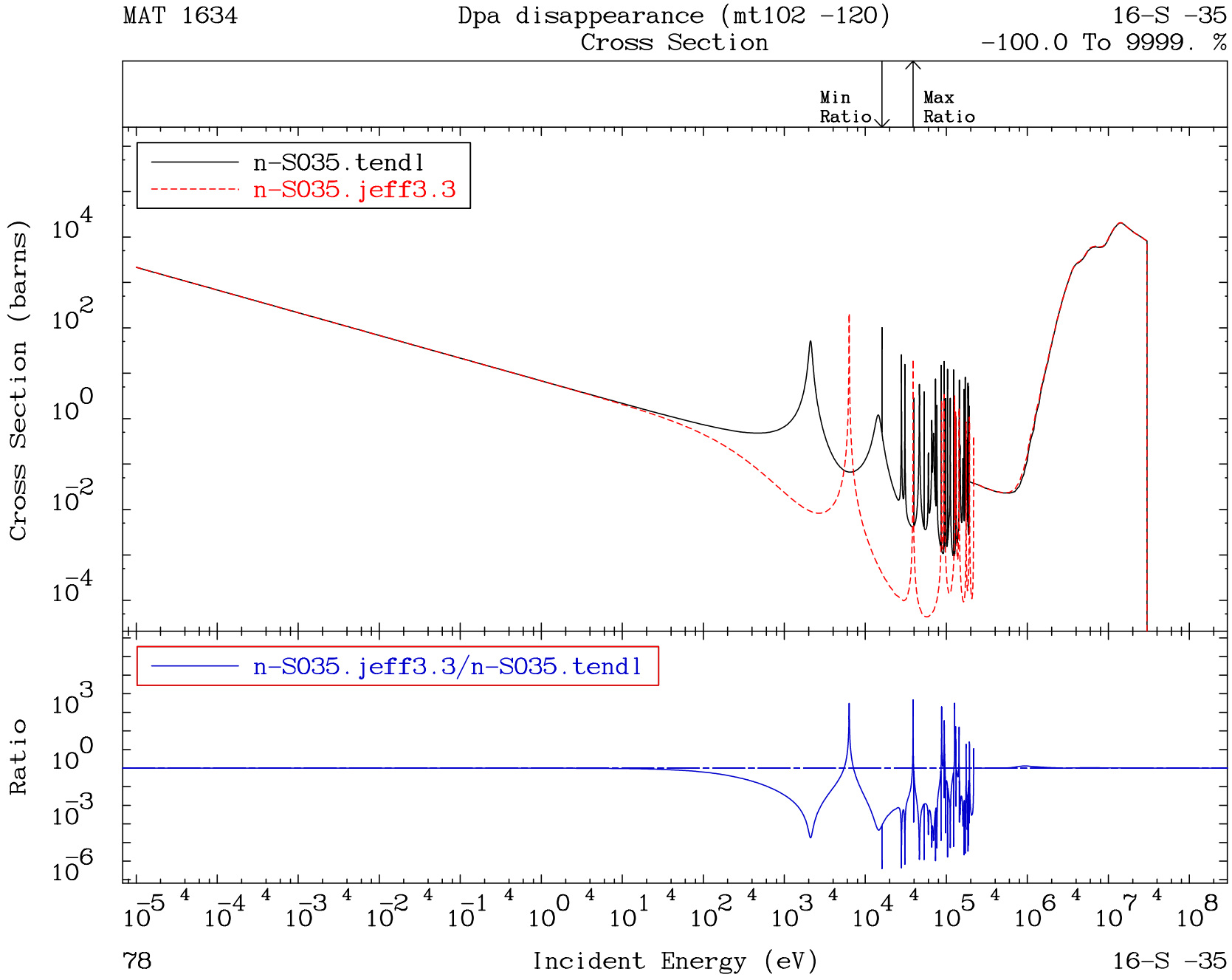

MAT 1634
Total photon (eV-barns)
Cross Section
16-S -35
-100.0 To 9999. %
Min Ratio
Max Ratio
n-S035.tendl
n-S035.jeff3.3
Cross Section (barns)
n-S035.jeff3.3/n-S035.tendl
Ratio
Incident Energy (eV)
73
16-S -35


MAT 1634
Total kinematic kerma (high limit)
Cross Section
16-S -35
-99.98 To 9999. %
Min Ratio
Max Ratio
n-S035.tendl
n-S035.jeff3.3
Cross Section (barns)
n-S035.jeff3.3/n-S035.tendl
Ratio
Incident Energy (eV)
74
16-S -35


MAT 1634
Dpa total (eV-barns)
Cross Section
16-S -35
-99.69 To 3667. %
Min Ratio
Max Ratio
n-S035.tendl
n-S035.jeff3.3
Cross Section (barns)
n-S035.jeff3.3/n-S035.tendl
Ratio
Incident Energy (eV)
75
16-S -35


MAT 1634
Dpa elastic (mt2)
Cross Section
16-S -35
-99.69 To 4868. %
Max Ratio
Min Ratio
n-S035.tendl Threshold 218.75 eV
n-S035.jeff3.3 Threshold 218.75 eV
Cross Section (barns)
n-S035.jeff3.3/n-S035.tendl
Ratio
Incident Energy (eV)
76
16-S -35


MAT 1634
Dpa inelastic (mt51-91)
Cross Section
16-S -35
-0.202 To 0.018 %
Min Ratio
Max Ratio
n-S035.tendl Threshold 1.7000 MeV
n-S035.jeff3.3 Threshold 1.7000 MeV
Cross Section (barns)
n-S035.jeff3.3/n-S035.tendl
Ratio
Incident Energy (eV)
77
16-S -35


MAT 1634
Dpa disappearance (mt102 -120)
Cross Section
16-S -35
-100.0 To 9999. %
Min Ratio
Max Ratio
n-S035.tendl
n-S035.jeff3.3
Cross Section (barns)
n-S035.jeff3.3/n-S035.tendl
Ratio
Incident Energy (eV)
78
16-S -35