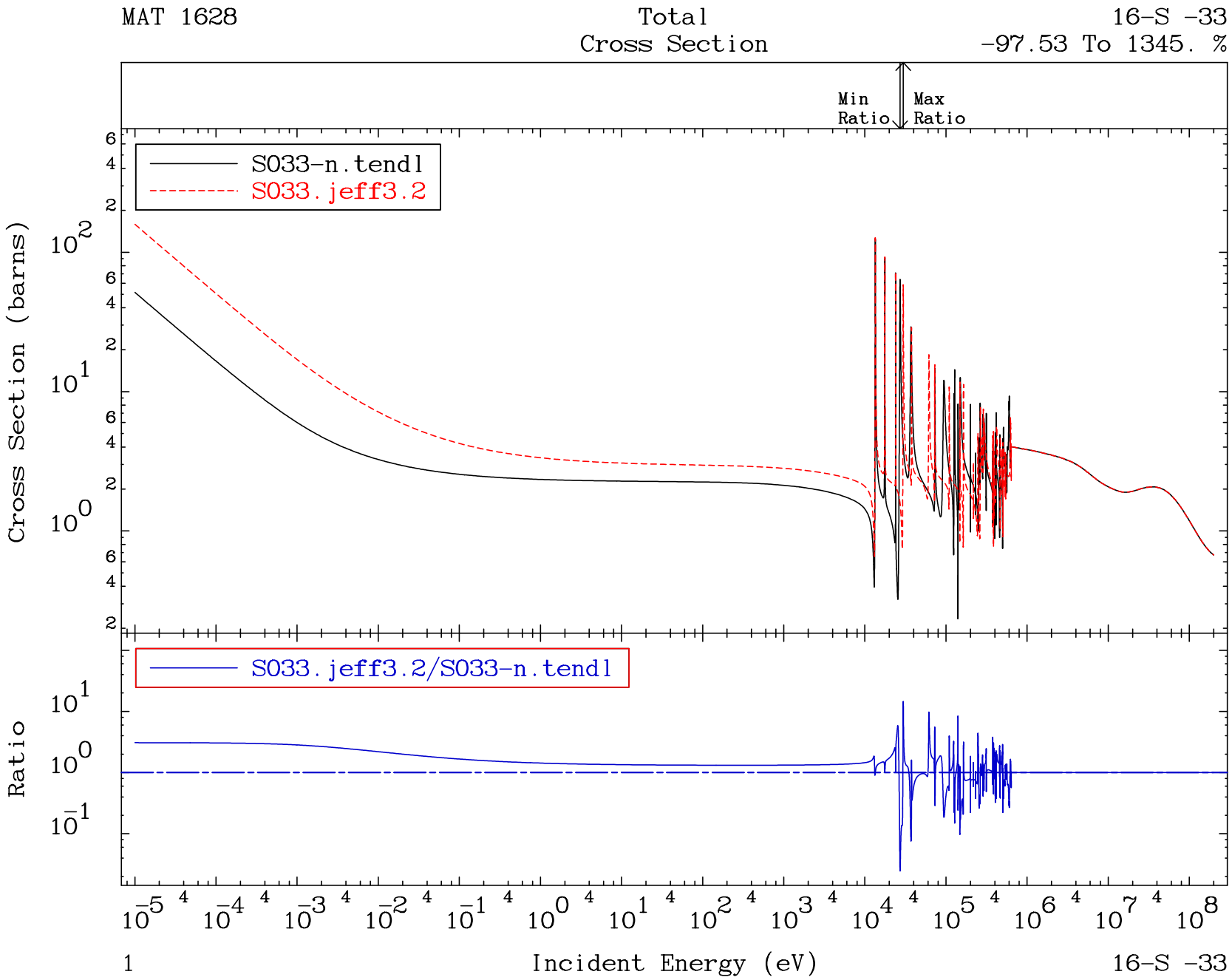
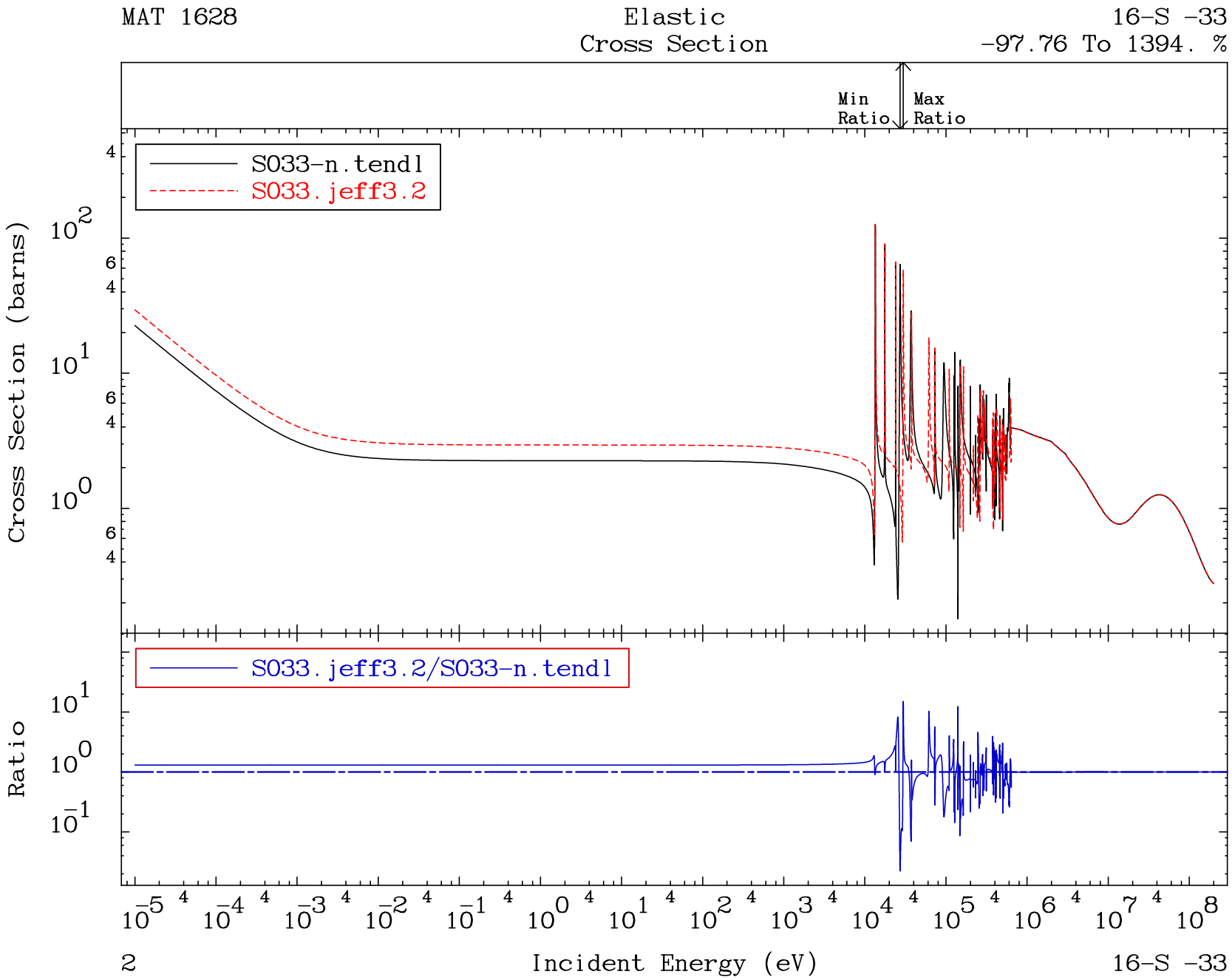
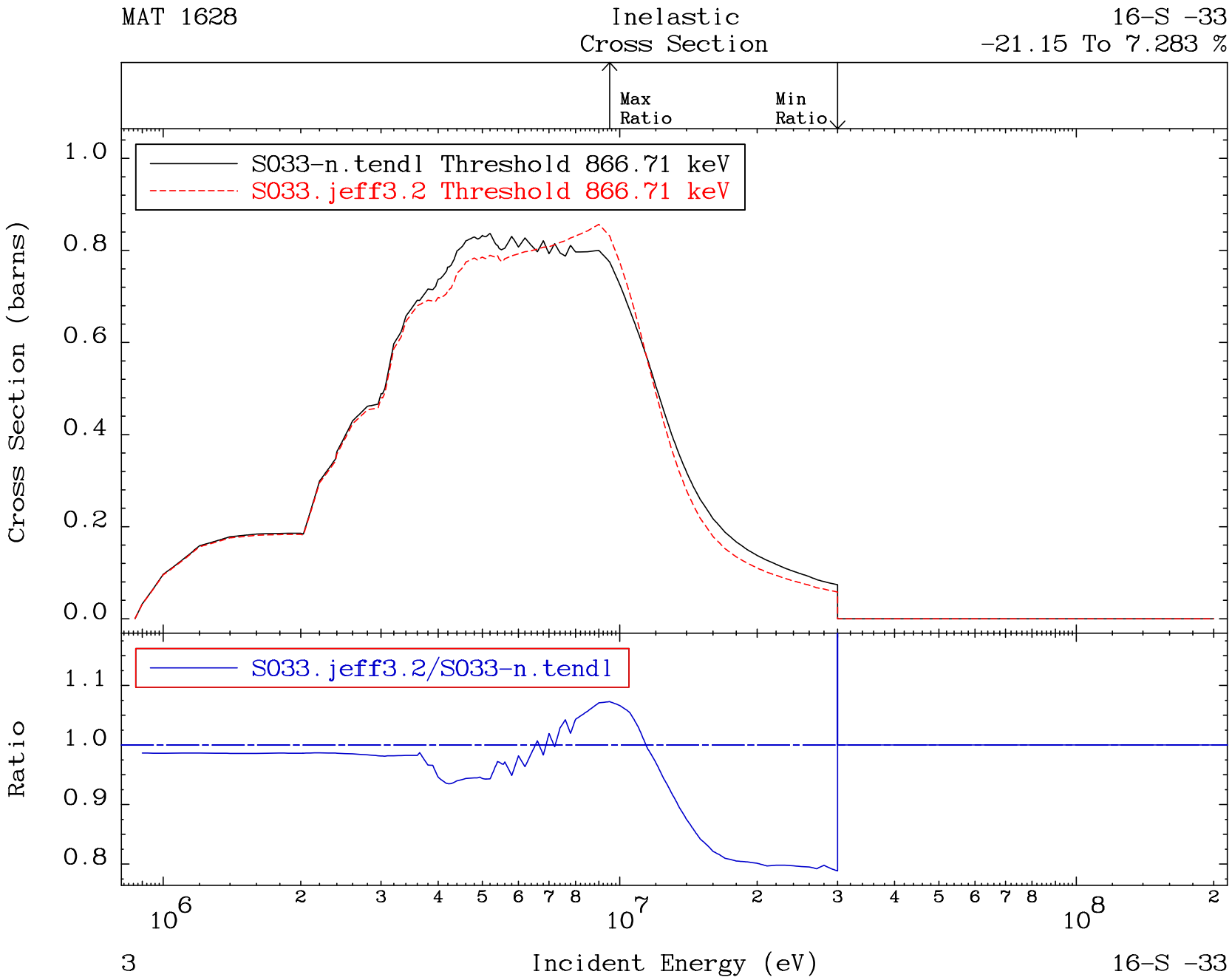
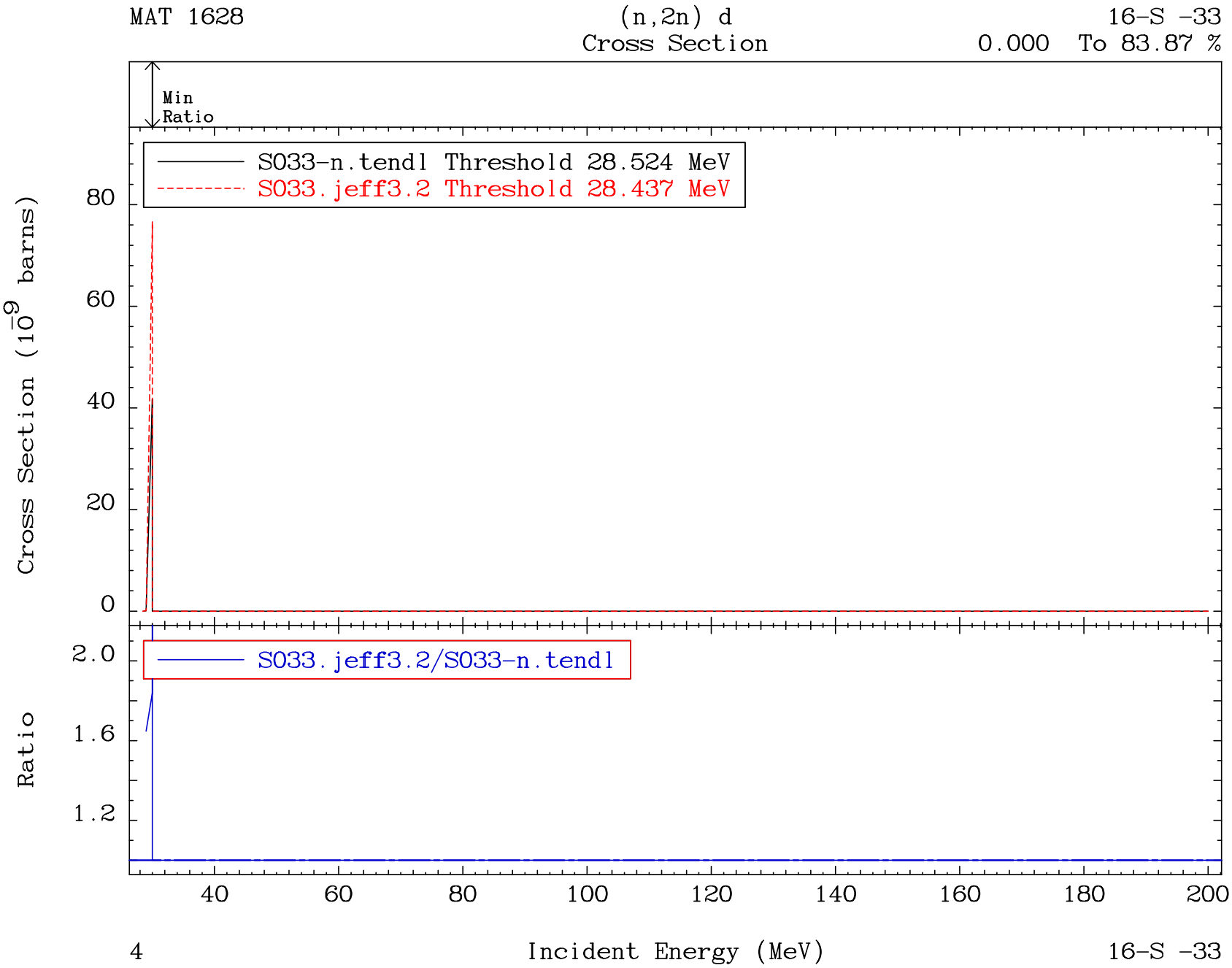
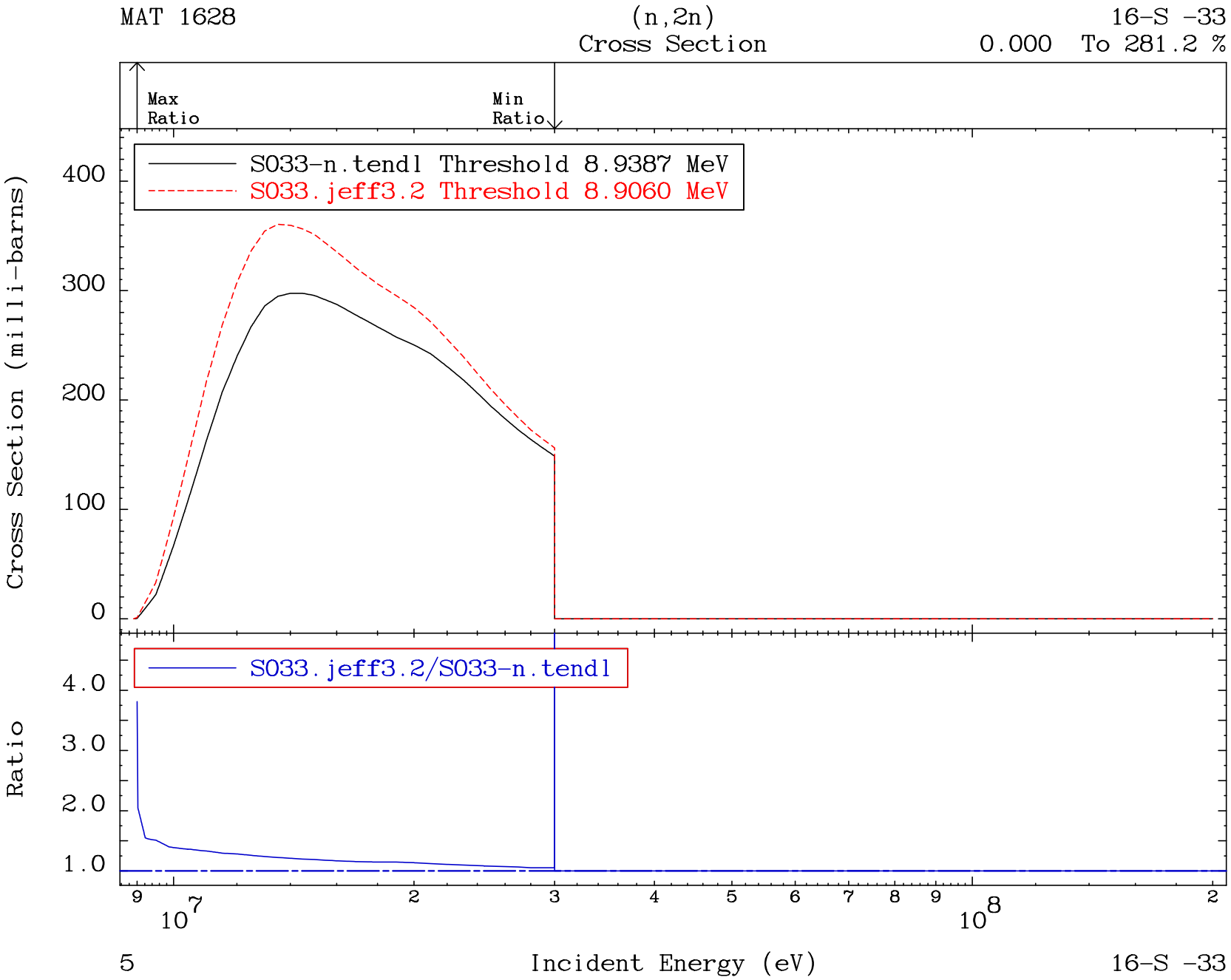
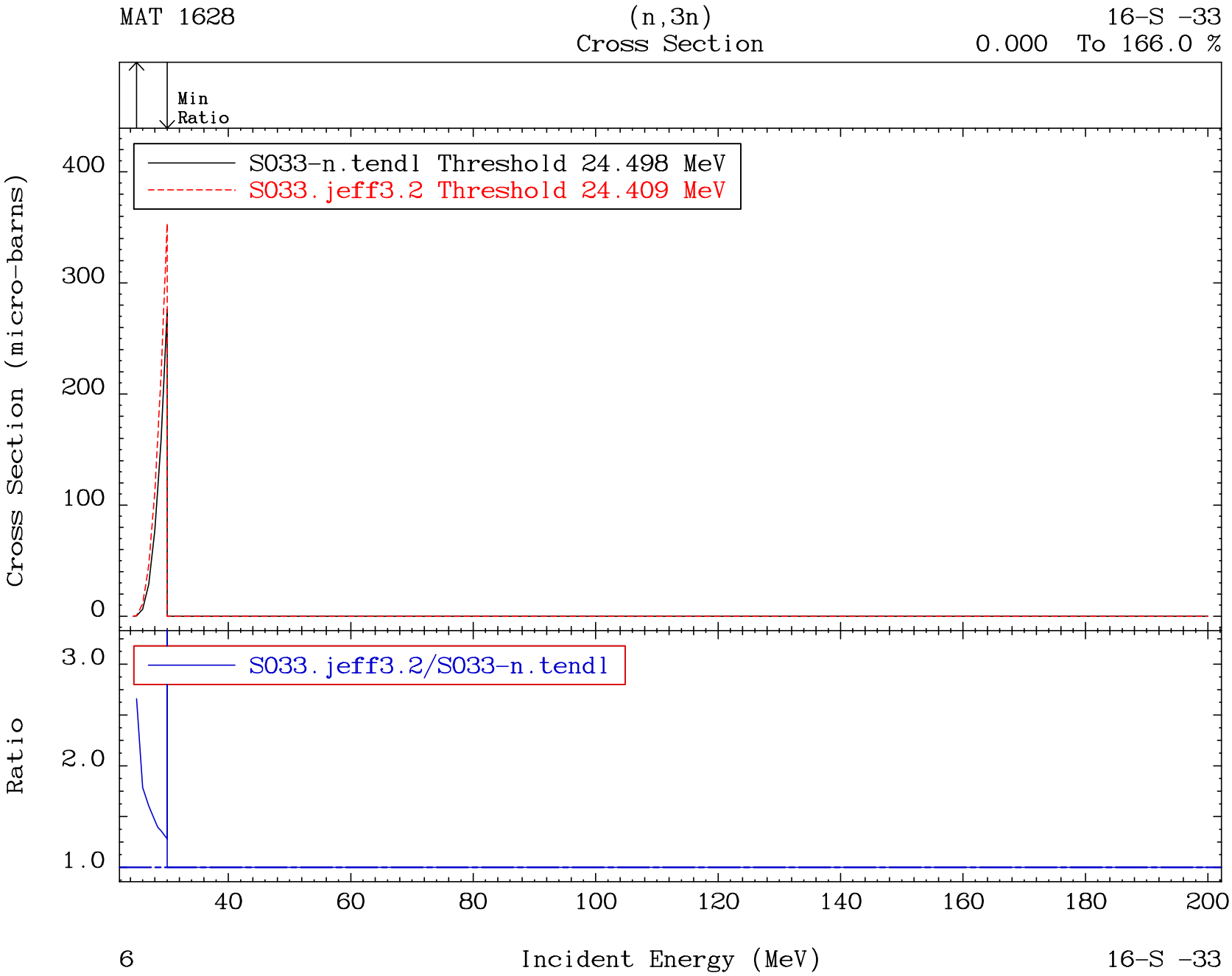

MAT 1628
Total
Cross Section
16-S -33
-97.53 To 1345. %
Min Ratio
Max Ratio
S033-n.tendl
S033.jeff3.2
Cross Section (barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
1
16-S -33

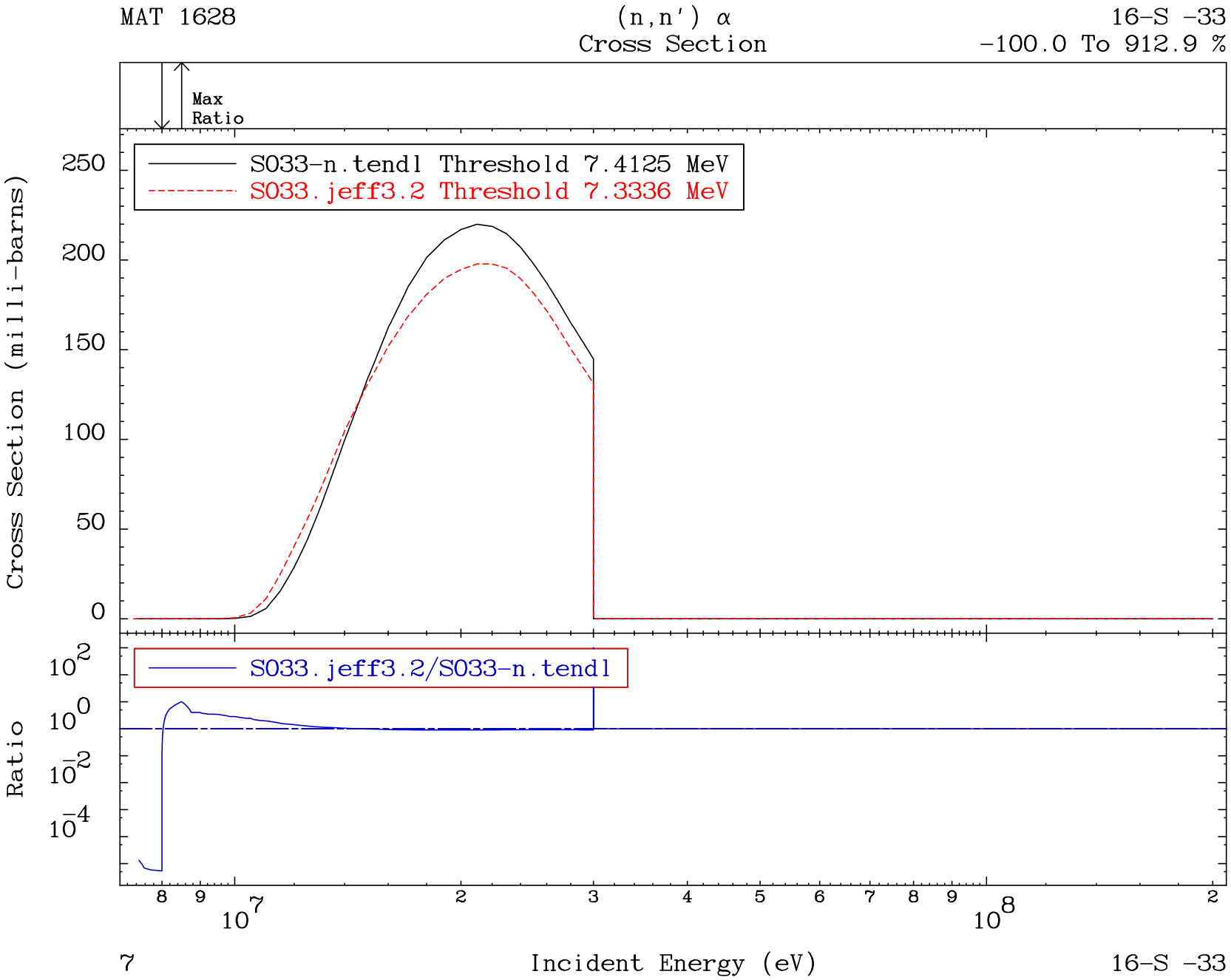

MAT 1628
Elastic
Cross Section
16-S -33
-97.76 To 1394. %
Min Ratio
Max Ratio
S033-n.tendl
S033.jeff3.2
Cross Section (barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
2
16-S -33

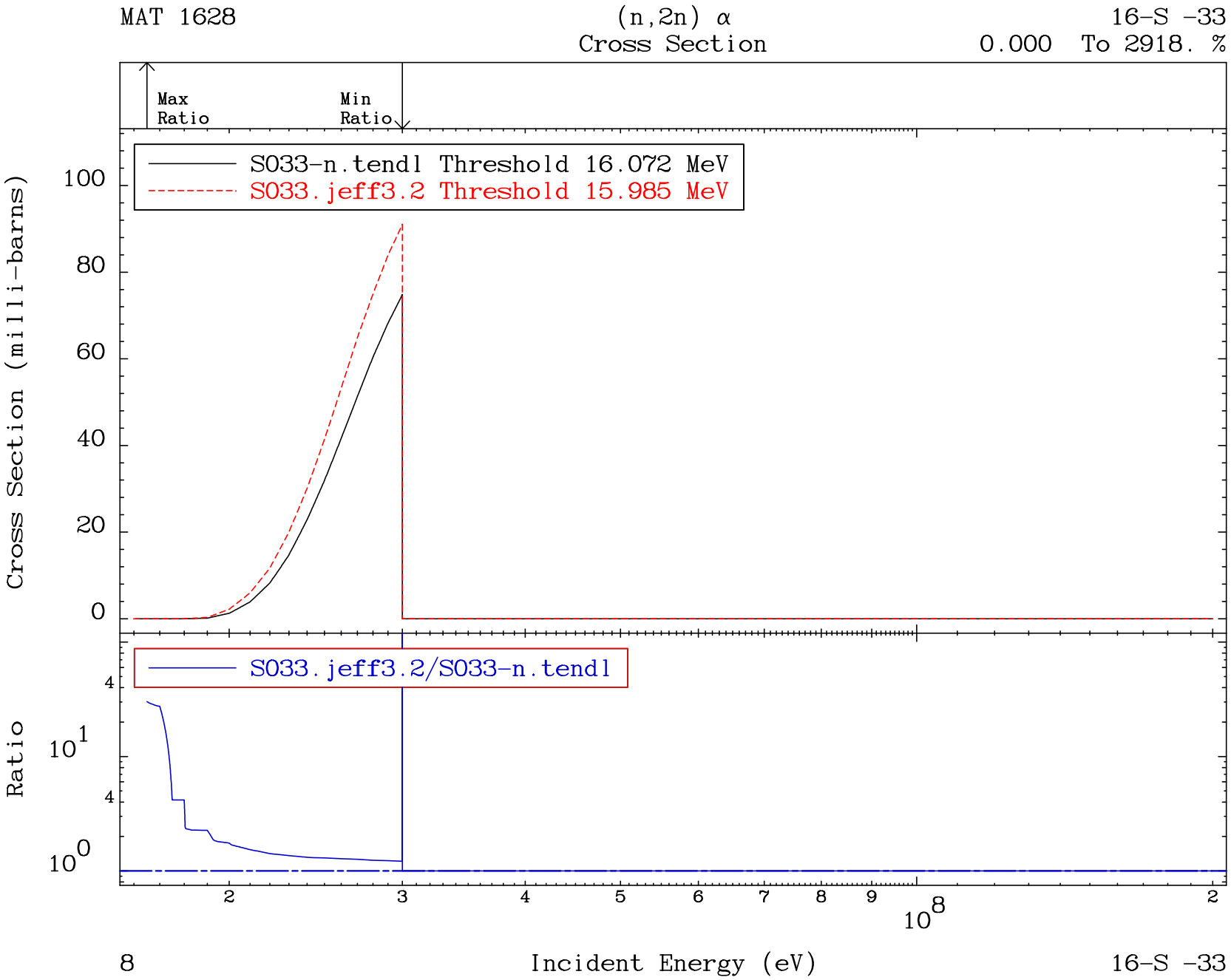

MAT 1628
Inelastic
Cross Section
16-S -33
-21.15 To 7.283 %
Max
Ratio
Min
Ratio
S033-n.tendl Threshold 866.71 keV
S033.jeff3.2 Threshold 866.71 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
S033.jeff3.2/S033-n.tendl
Ratio
1.1
1.0
0.9
0.8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
16-S -33

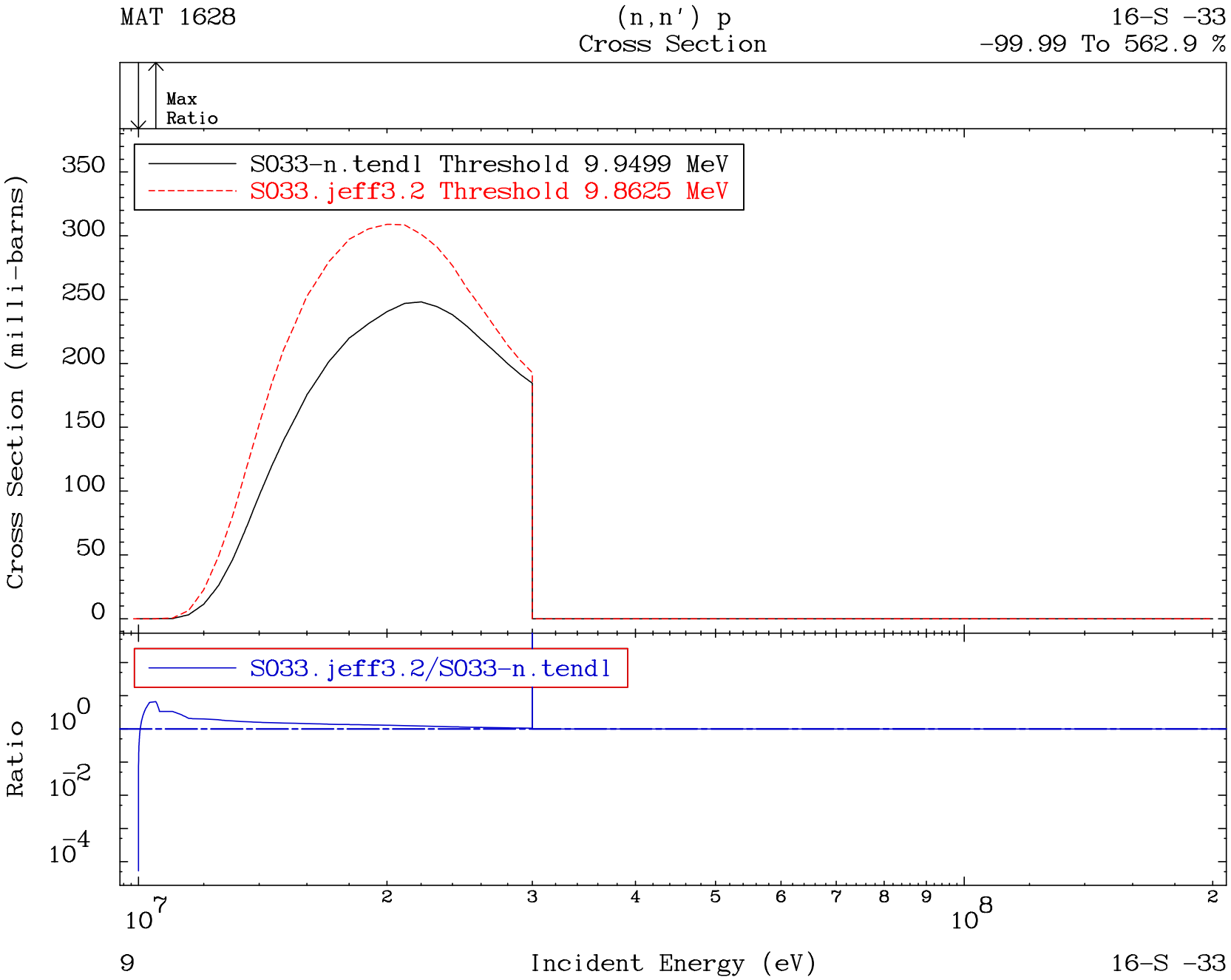

MAT 1628
(n,2n) d
Cross Section
16-S -33
0.000 To 83.87 %
Min
Ratio
S033-n.tendl Threshold 28.524 MeV
S033.jeff3.2 Threshold 28.437 MeV
Cross Section (10^{-9} barns)
0
20
40
60
80
S033.jeff3.2/S033-n.tendl
Ratio
1.2
1.6
2.0
40
60
80
100
120
140
160
180
200
Incident Energy (MeV)

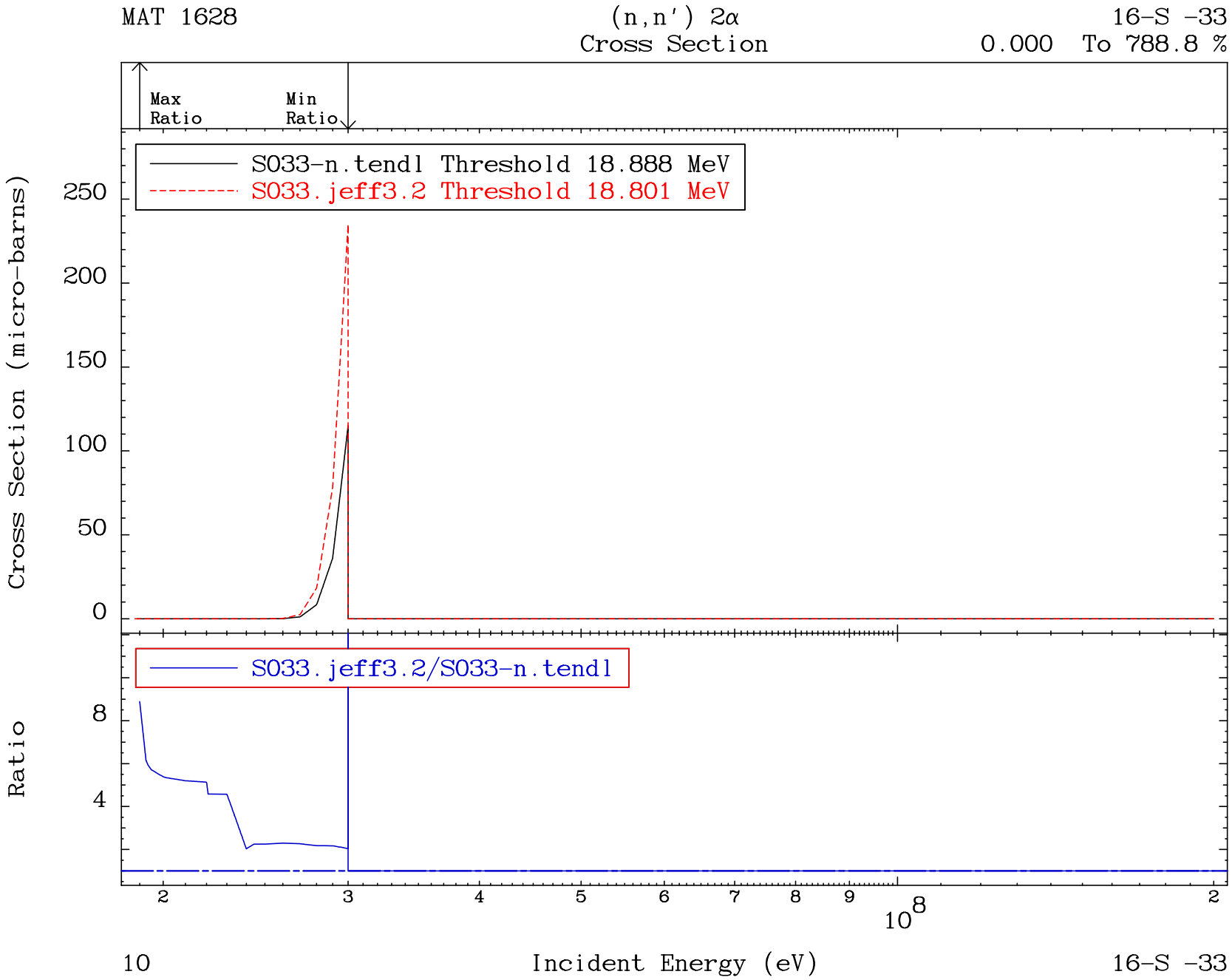

MAT 1628
(n,2n)
Cross Section
16-S -33
0.000 To 281.2 %
Max Ratio
Min Ratio
S033-n.tendl Threshold 8.9387 MeV
S033.jeff3.2 Threshold 8.9060 MeV
Cross Section (milli-barns)
400
300
200
100
0
S033.jeff3.2/S033-n.tendl
Ratio
4.0
3.0
2.0
1.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
16-S -33

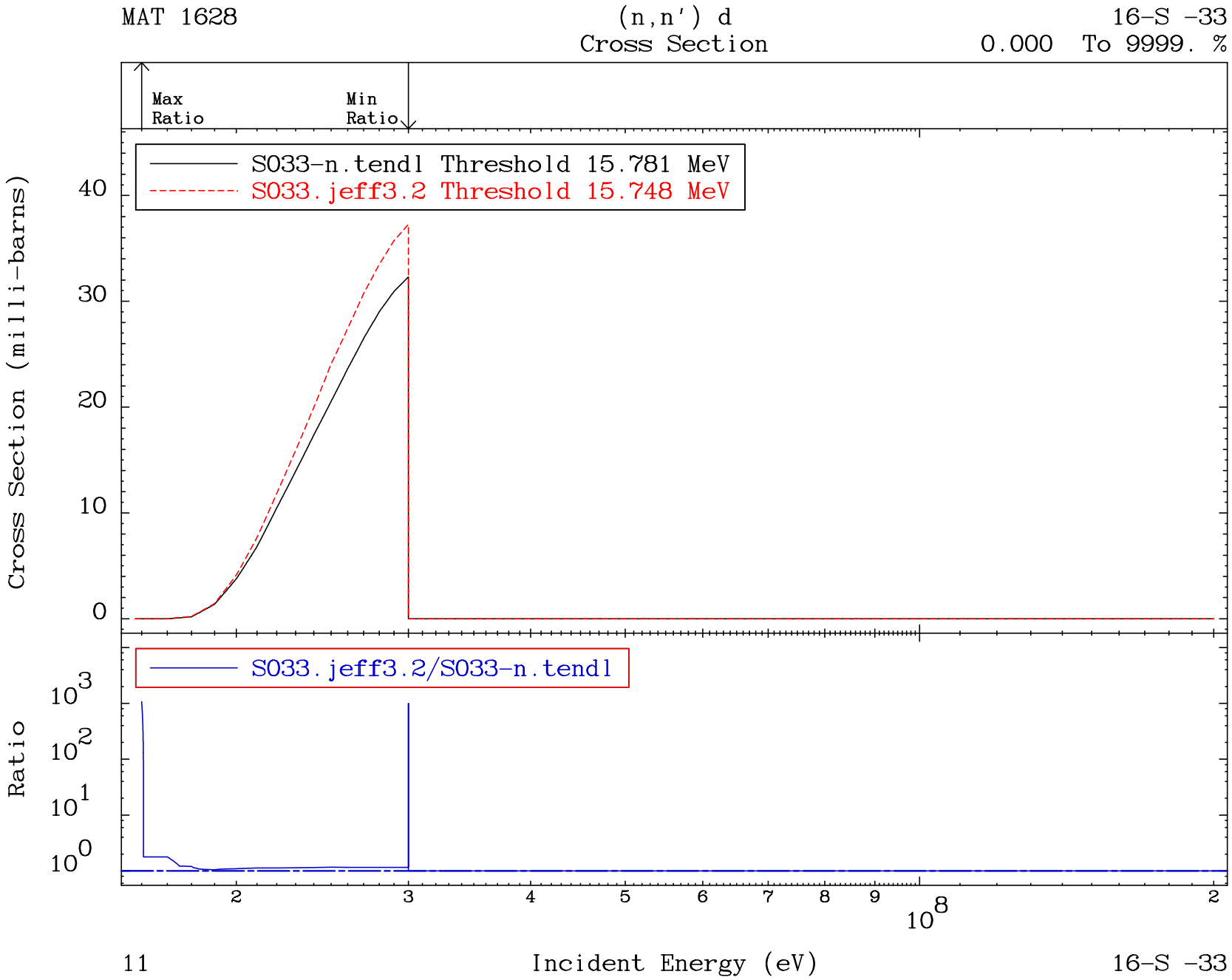

MAT 1628
(n,3n)
Cross Section
16-S -33
0.000 To 166.0 %
Min
Ratio
S033-n.tendl Threshold 24.498 MeV
S033.jeff3.2 Threshold 24.409 MeV
Cross Section (micro-barns)
400
300
200
100
0
S033.jeff3.2/S033-n.tendl
Ratio
3.0
2.0
1.0
40
60
80
100
120
140
160
180
200
6
Incident Energy (MeV)
16-S -33

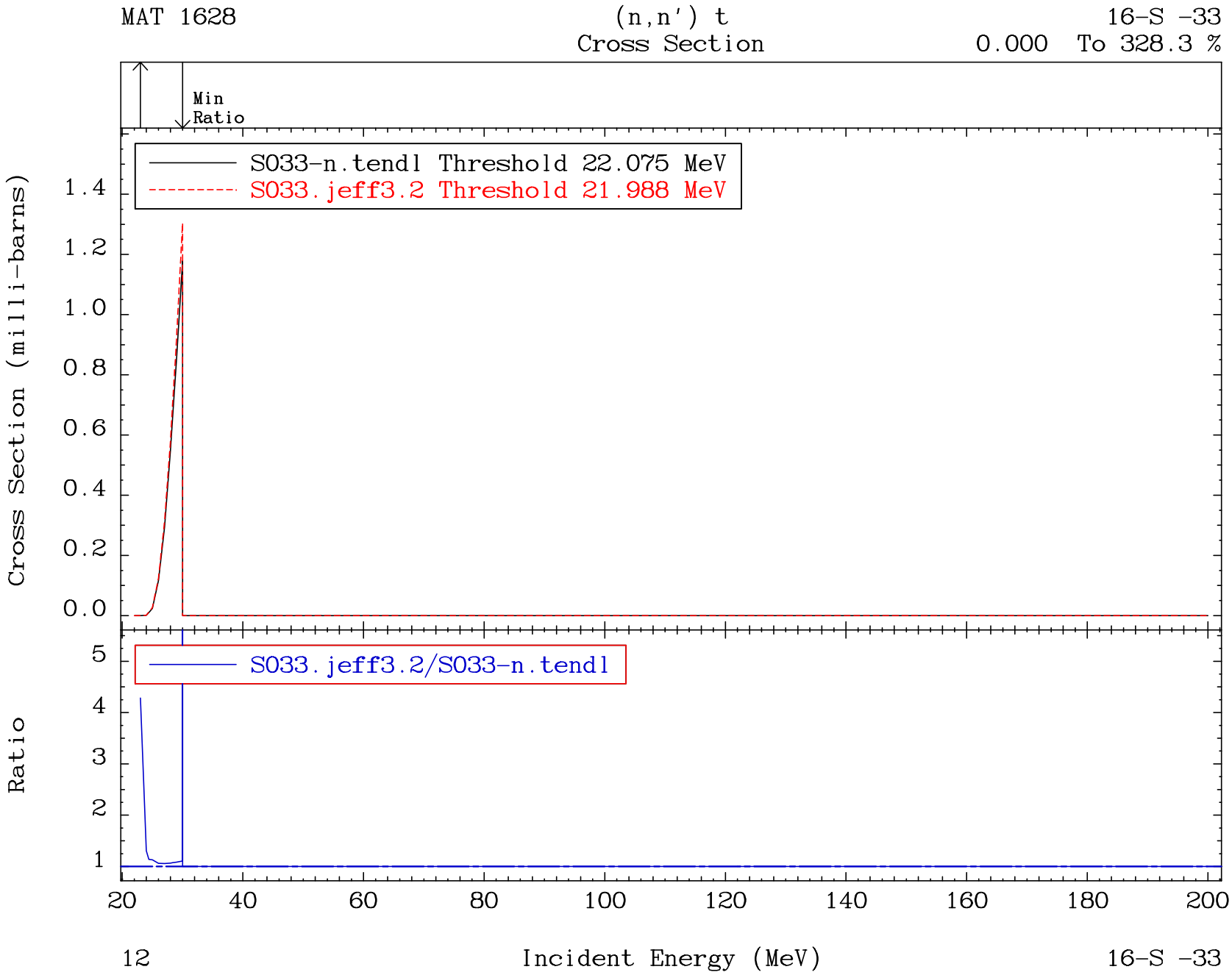

MAT 1628
(n,n') α
Cross Section
16-S -33
-100.0 To 912.9 %
Max
Ratio
S033-n.tendl Threshold 7.4125 MeV
S033.jeff3.2 Threshold 7.3336 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
S033.jeff3.2/S033-n.tendl
Ratio
10^2
10^0
10^-2
10^-4
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
16-S -33

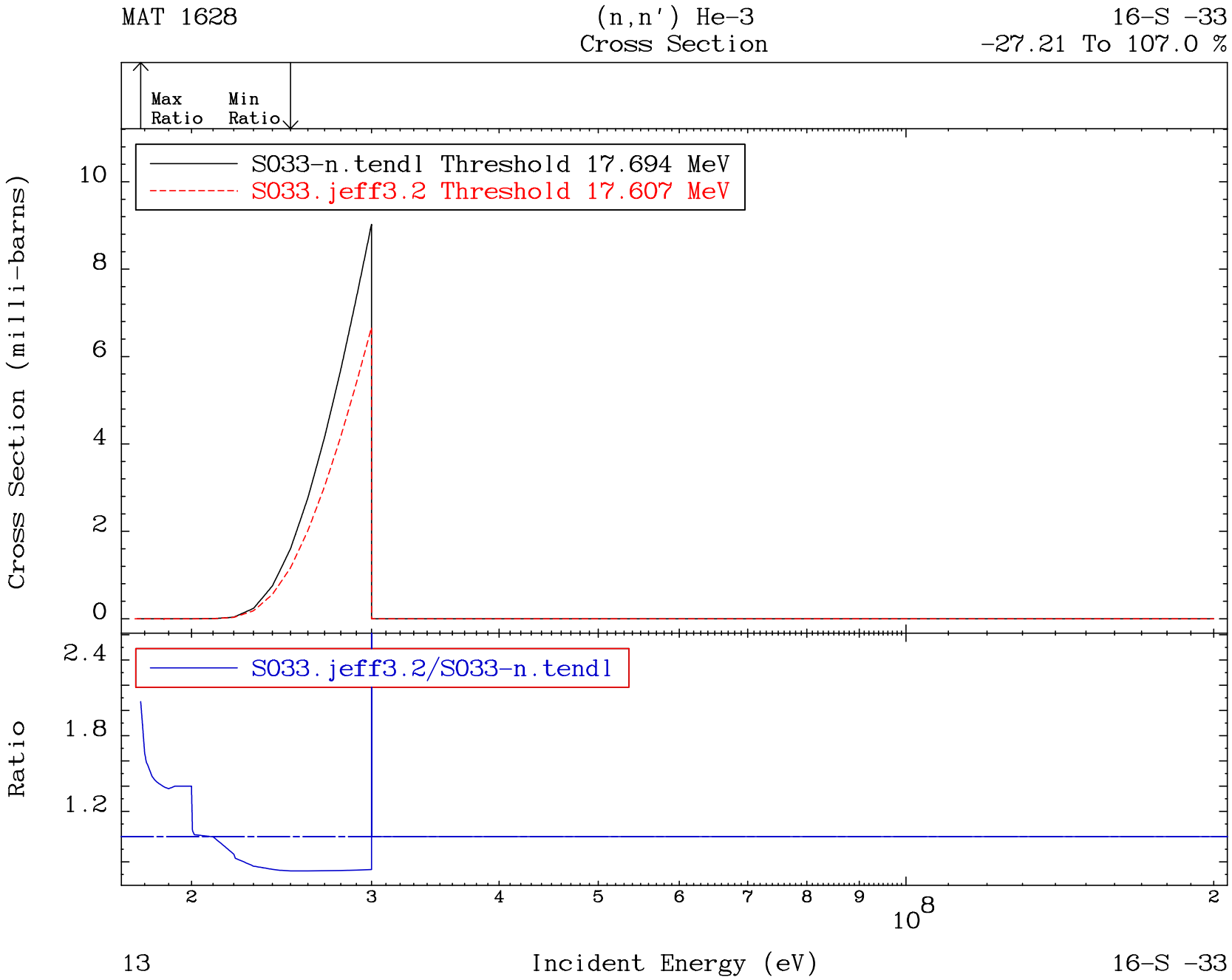

MAT 1628
(n,2n) α
Cross Section
16-S -33
0.000 To 2918. %
Max Ratio
Min Ratio
S033-n.tendl Threshold 16.072 MeV
S033.jeff3.2 Threshold 15.985 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
S033.jeff3.2/S033-n.tendl
Ratio
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
16-S -33

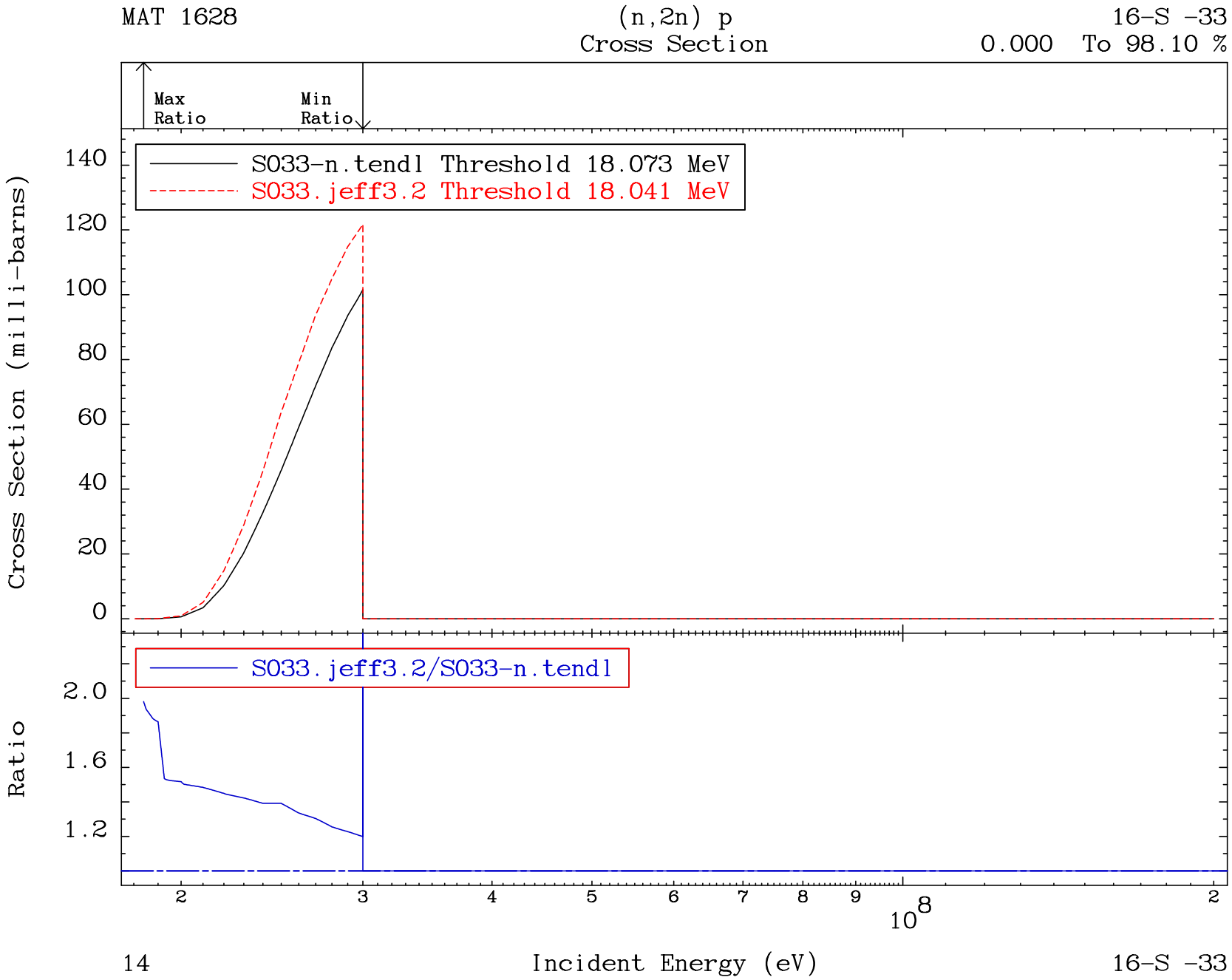

MAT 1628
(n,n') p
Cross Section
16-S -33
-99.99 To 562.9 %
Max
Ratio
S033-n.tendl Threshold 9.9499 MeV
S033.jeff3.2 Threshold 9.8625 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
S033.jeff3.2/S033-n.tendl
Ratio
10^0
10^-2
10^-4
10^7
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
16-S -33

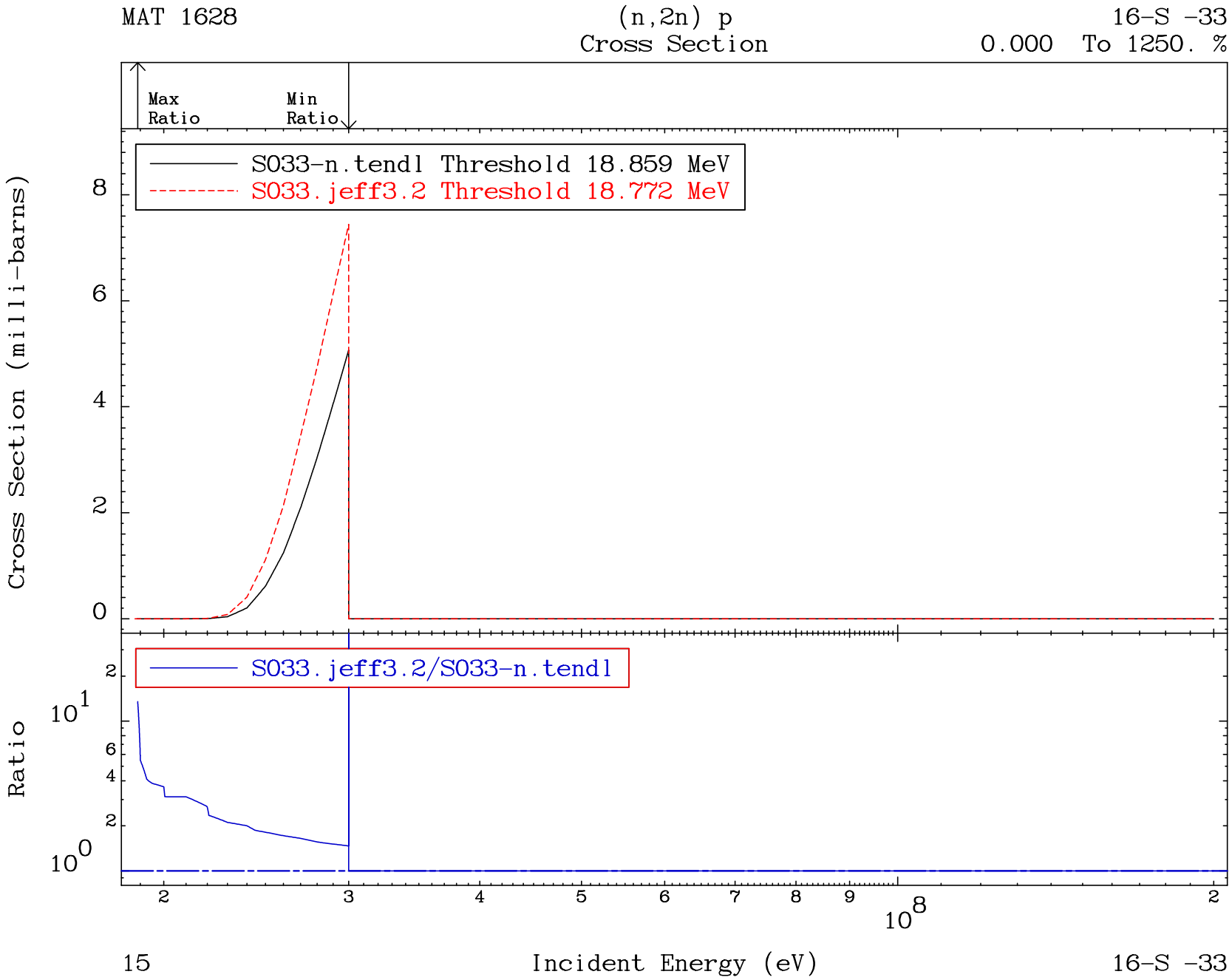

MAT 1628
(n,n') 2α
Cross Section
16-S -33
0.000 To 788.8 %
Max Ratio
Min Ratio
S033-n.tendl Threshold 18.888 MeV
S033.jeff3.2 Threshold 18.801 MeV
Cross Section (micro-barns)
250
200
150
100
50
0
S033.jeff3.2/S033-n.tendl
Ratio
8
4
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
16-S -33

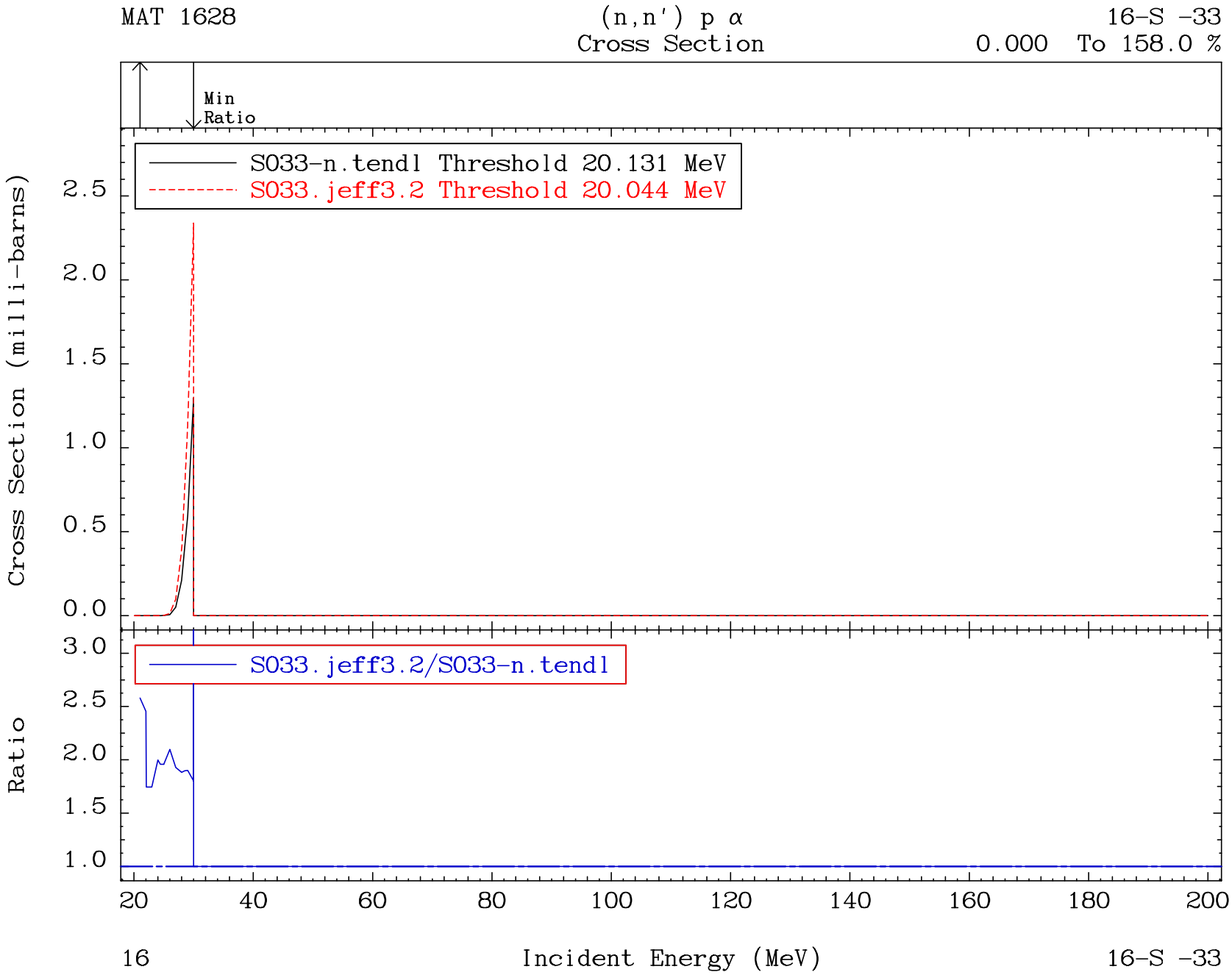

MAT 1628
(n,n') d
Cross Section
16-S -33
0.000 To 9999. %
Max Ratio
Min Ratio
S033-n.tendl Threshold 15.781 MeV
S033.jeff3.2 Threshold 15.748 MeV
Cross Section (milli-barns)
40
30
20
10
0
S033.jeff3.2/S033-n.tendl
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
16-S -33

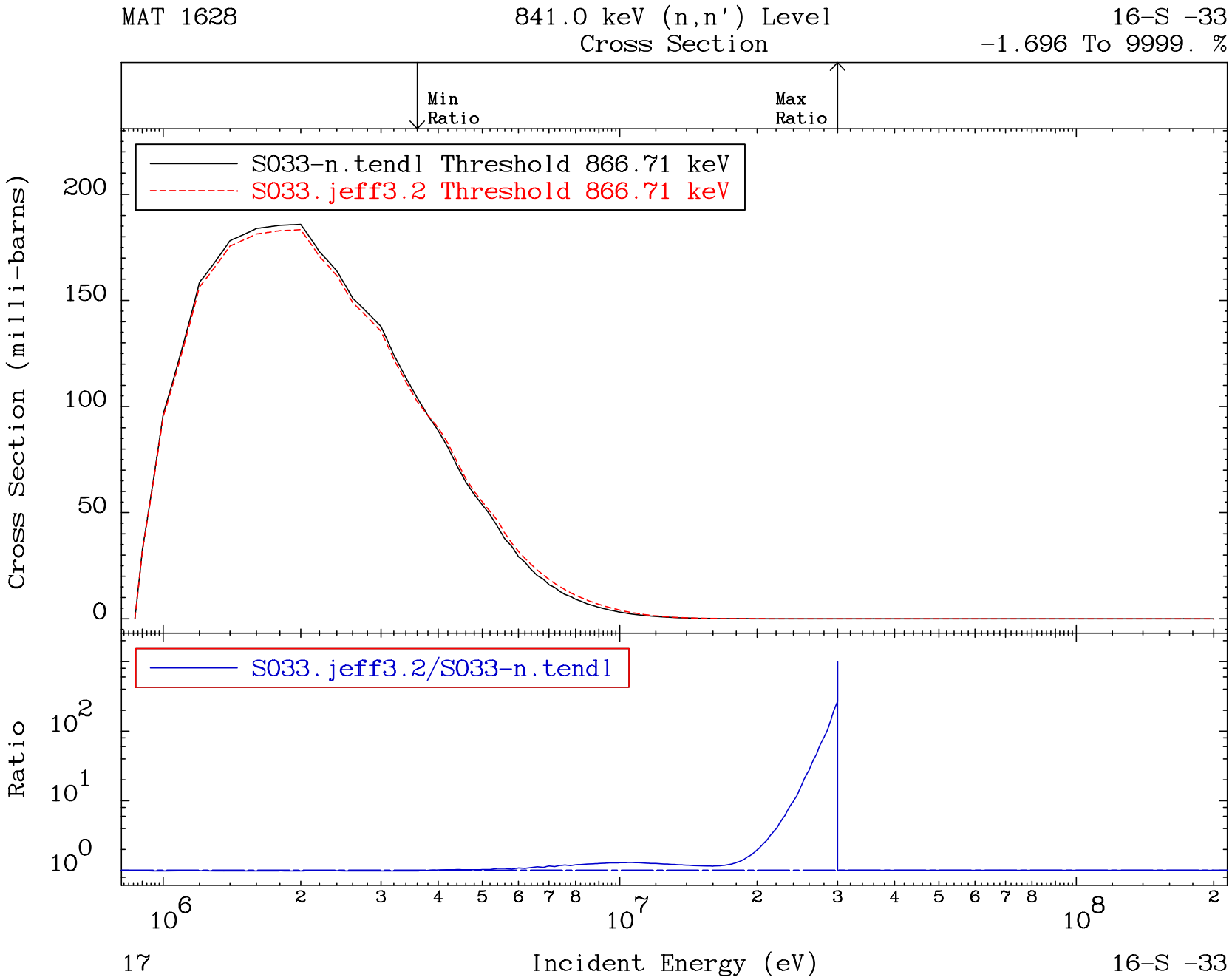

MAT 1628
(n,n') t
Cross Section
16-S -33
0.000 To 328.3 %
Min
Ratio
S033-n.tendl Threshold 22.075 MeV
S033.jeff3.2 Threshold 21.988 MeV
Cross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
S033.jeff3.2/S033-n.tendl
Ratio
5
4
3
2
1
20
40
60
80
100
120
140
160
180
200
12
Incident Energy (MeV)
16-S -33

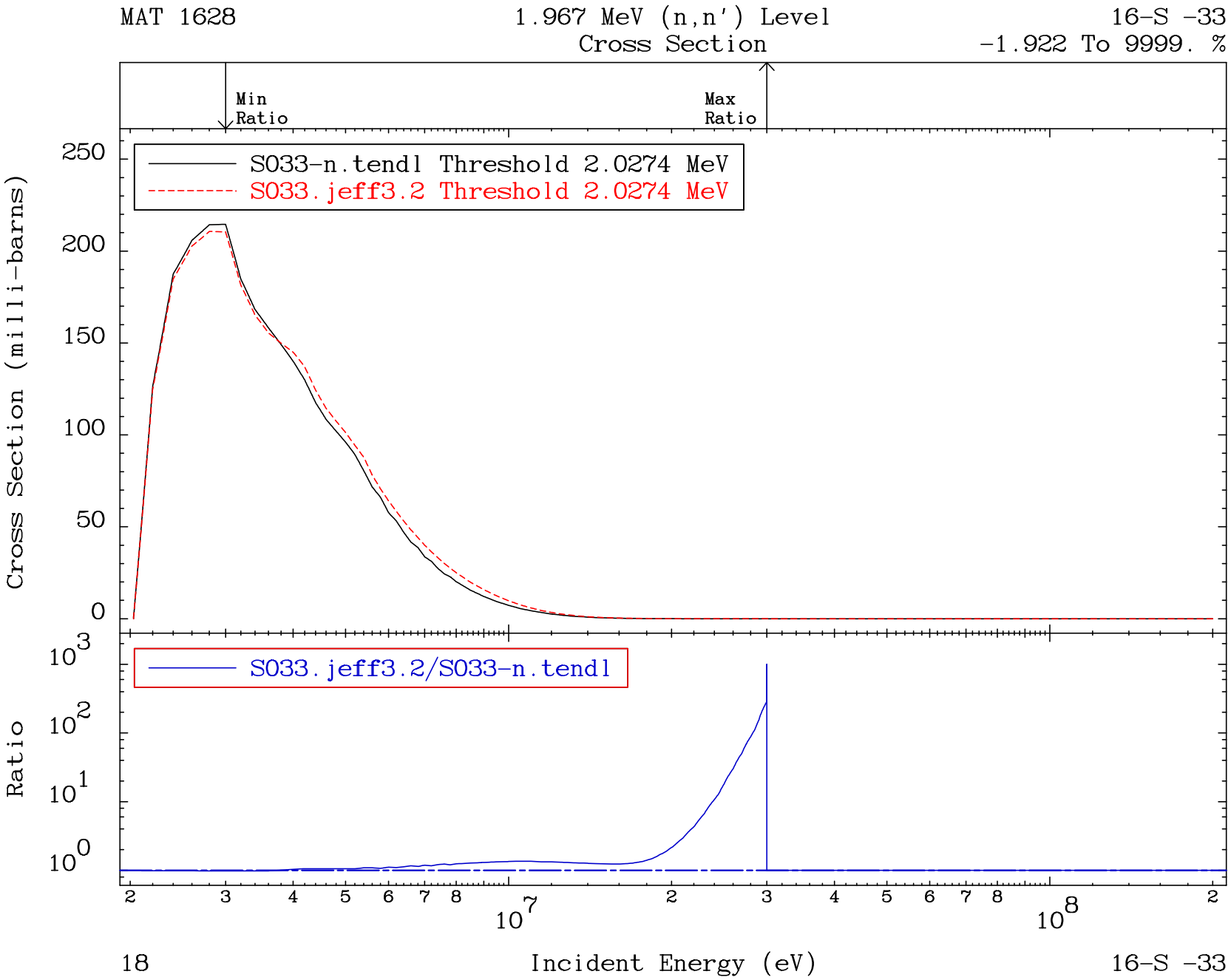

MAT 1628
(n,n') He-3
Cross Section
16-S -33
-27.21 To 107.0 %
Max Ratio
Min Ratio
S033-n.tendl Threshold 17.694 MeV
S033.jeff3.2 Threshold 17.607 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
S033.jeff3.2/S033-n.tendl
Ratio
2.4
1.8
1.2
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
16-S -33

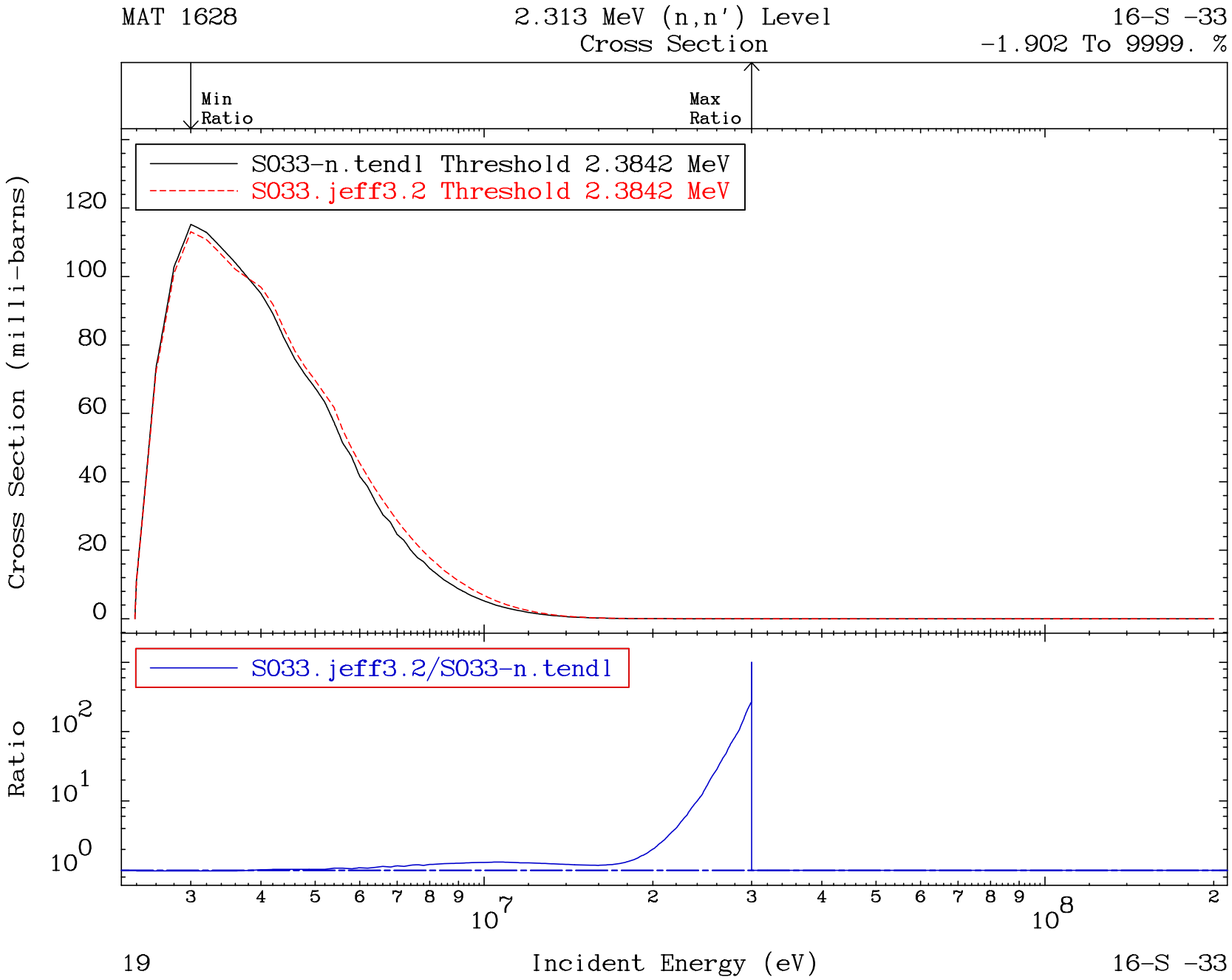

MAT 1628
(n,2n) p
Cross Section
16-S -33
0.000 To 98.10 %
Max Ratio
Min Ratio
S033-n.tendl Threshold 18.073 MeV
S033.jeff3.2 Threshold 18.041 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
S033.jeff3.2/S033-n.tendl
Ratio
2.0
1.6
1.2
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
16-S -33

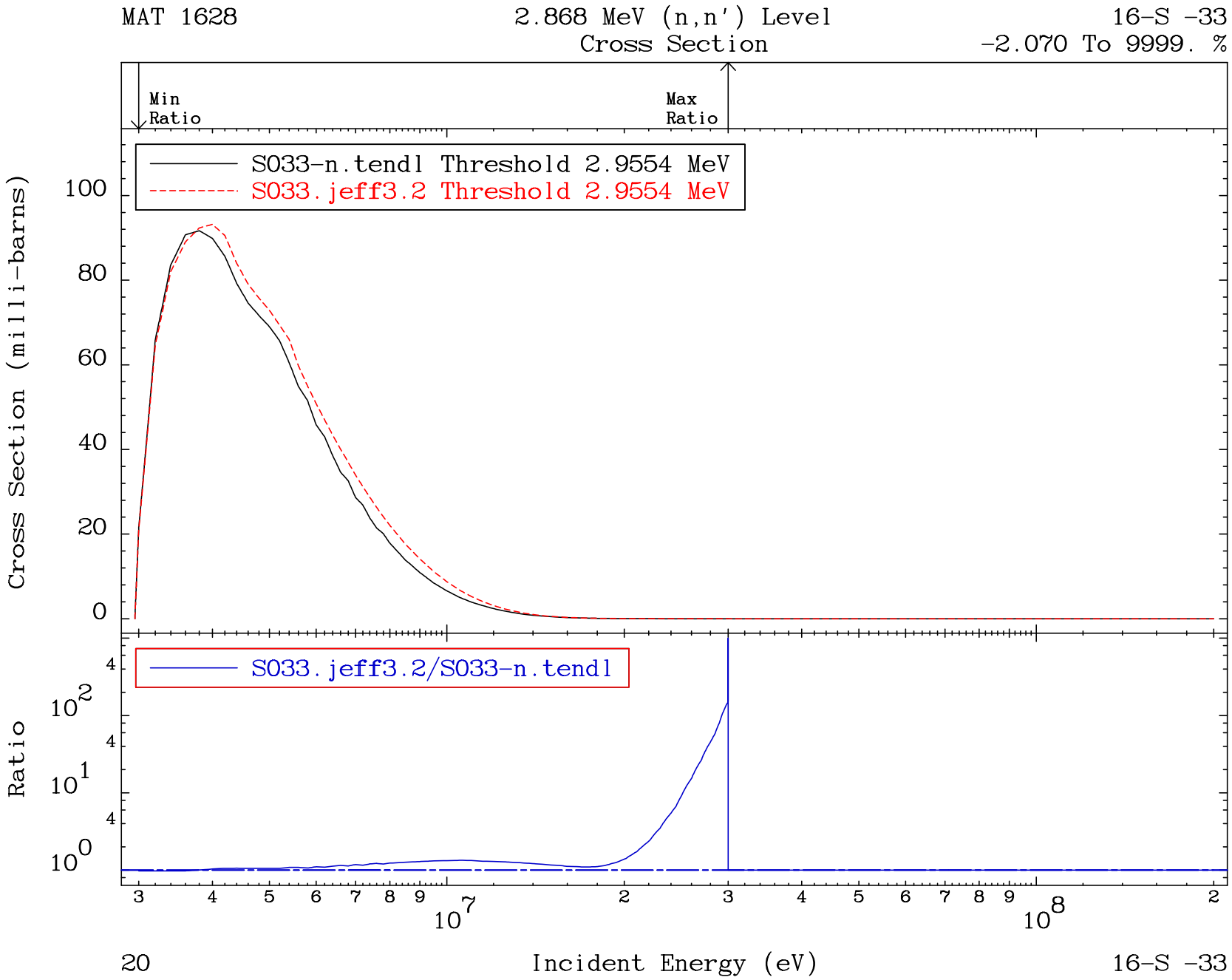

MAT 1628
(n,2n) p
Cross Section
16-S -33
0.000 To 1250. %
Max Ratio
Min Ratio
S033-n.tendl Threshold 18.859 MeV
S033.jeff3.2 Threshold 18.772 MeV
Cross Section (milli-barns)
0
2
4
6
8
S033.jeff3.2/S033-n.tendl
Ratio
10^0
10^1
2
3
4
5
6
7
8
9
10^8
15
Incident Energy (eV)
16-S -33

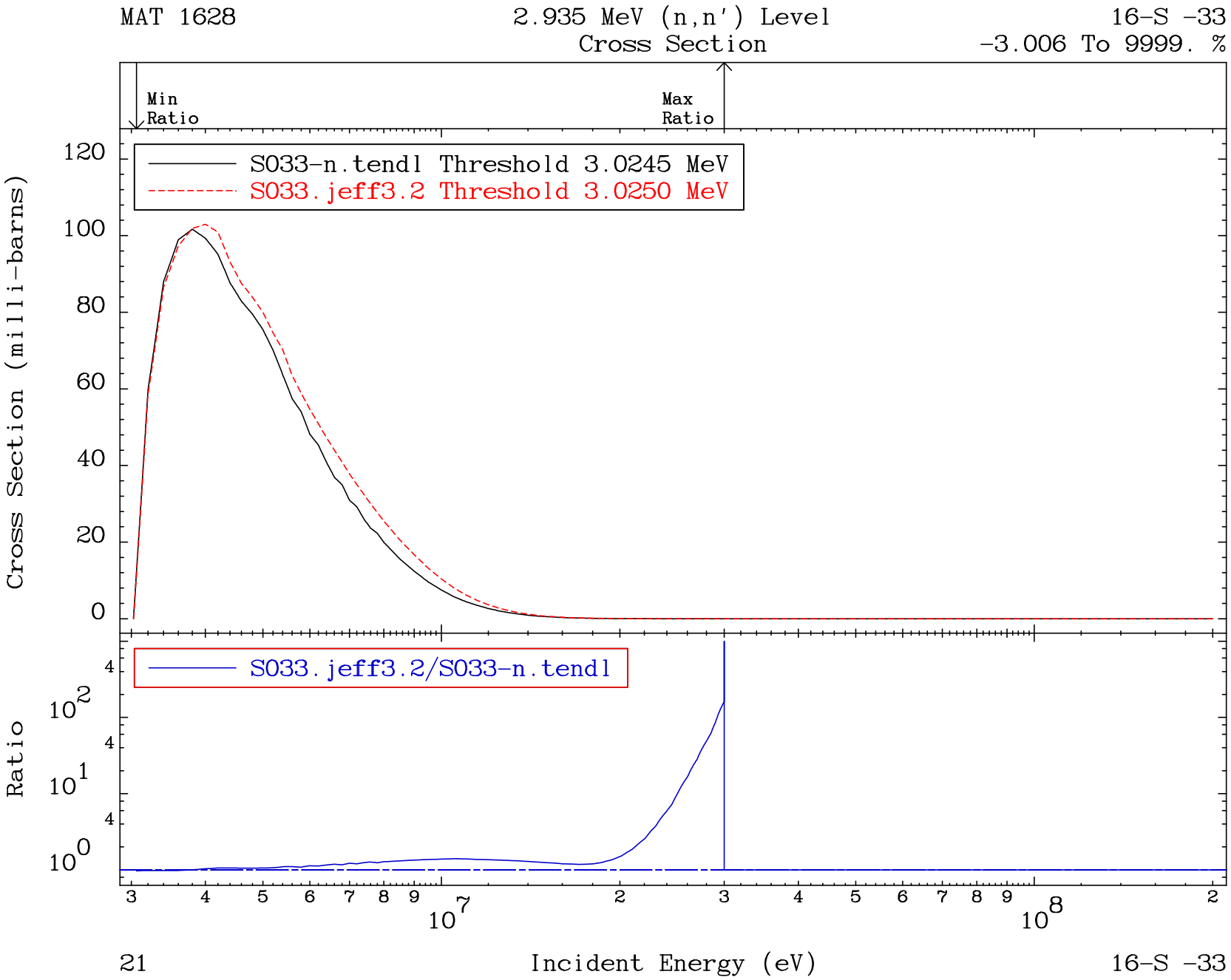

MAT 1628
(n,n') p α
Cross Section
16-S -33
0.000 To 158.0 %
Min
Ratio
S033-n.tendl Threshold 20.131 MeV
S033.jeff3.2 Threshold 20.044 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
S033.jeff3.2/S033-n.tendl
Ratio
3.0
2.5
2.0
1.5
1.0
20
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
16-S -33

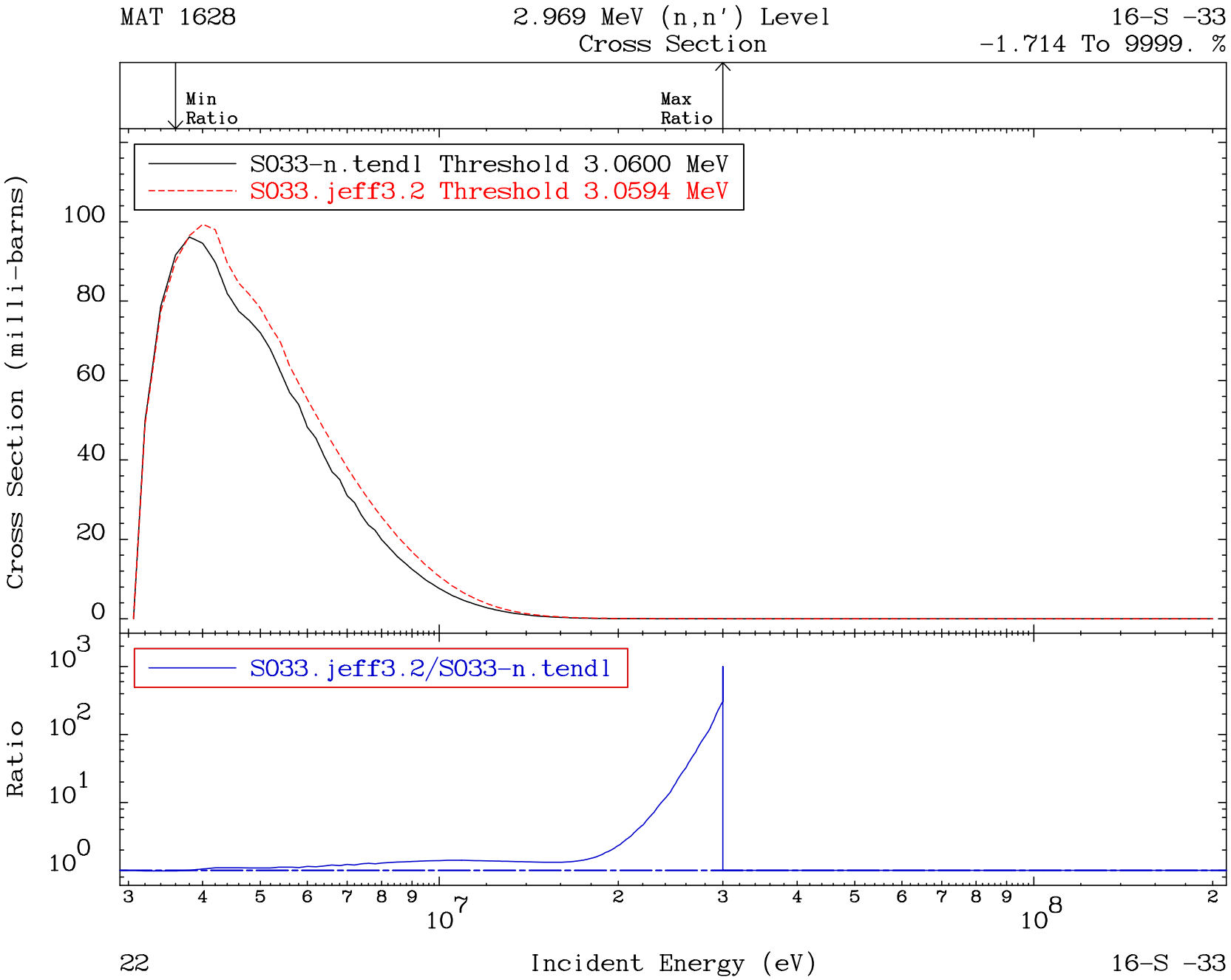

MAT 1628
841.0 keV (n,n') Level
Cross Section
16-S -33
-1.696 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 866.71 keV
S033.jeff3.2 Threshold 866.71 keV
Cross Section (milli-barns)
200
150
100
50
0
S033.jeff3.2/S033-n.tendl
Ratio
10^2
10^1
10^0
10^6
10^7
10^8
Incident Energy (eV)
17
16-S -33

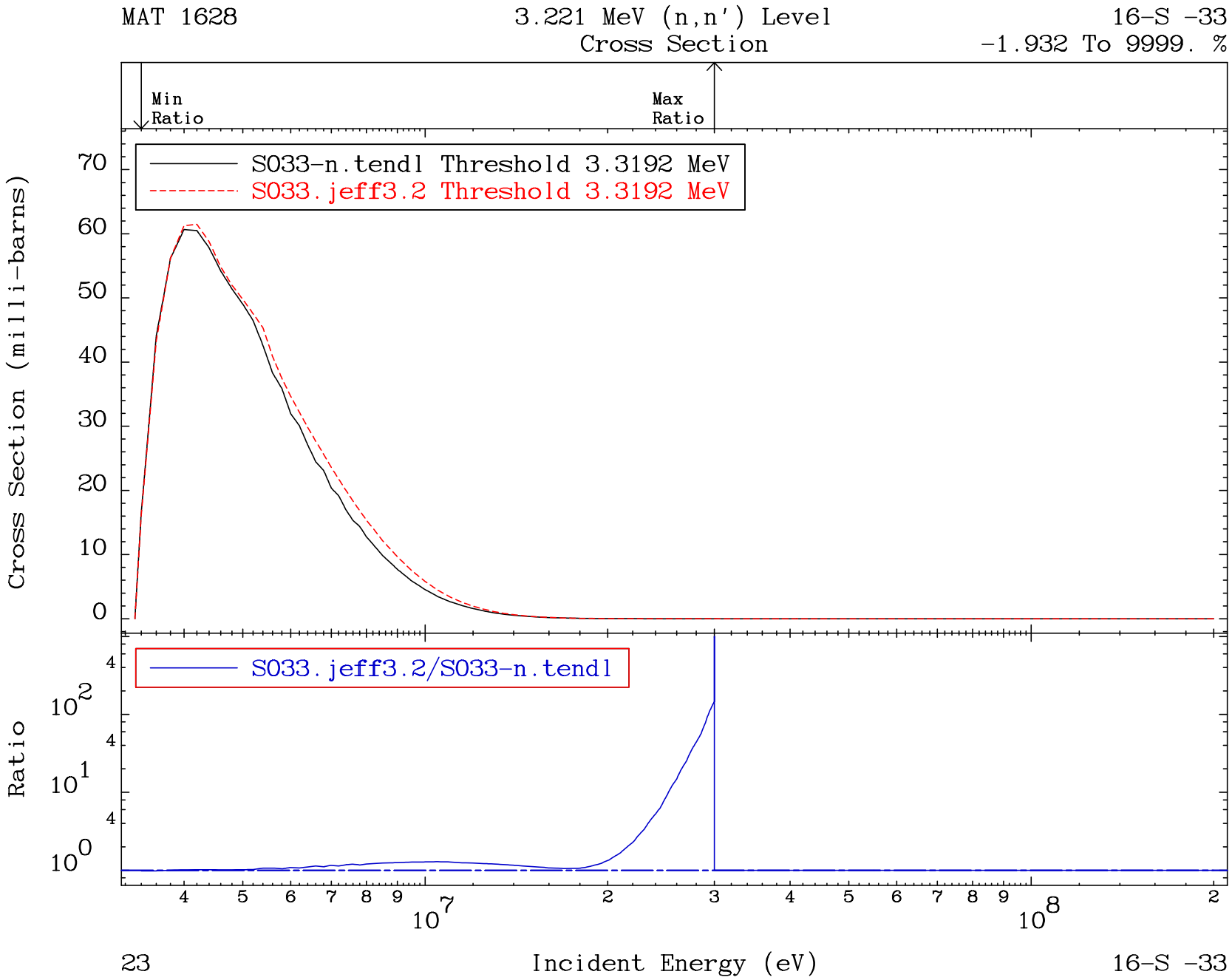

MAT 1628
1.967 MeV (n,n') Level
Cross Section
16-S -33
-1.922 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 2.0274 MeV
S033.jeff3.2 Threshold 2.0274 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
S033.jeff3.2/S033-n.tendl
Ratio
10^3
10^2
10^1
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
16-S -33

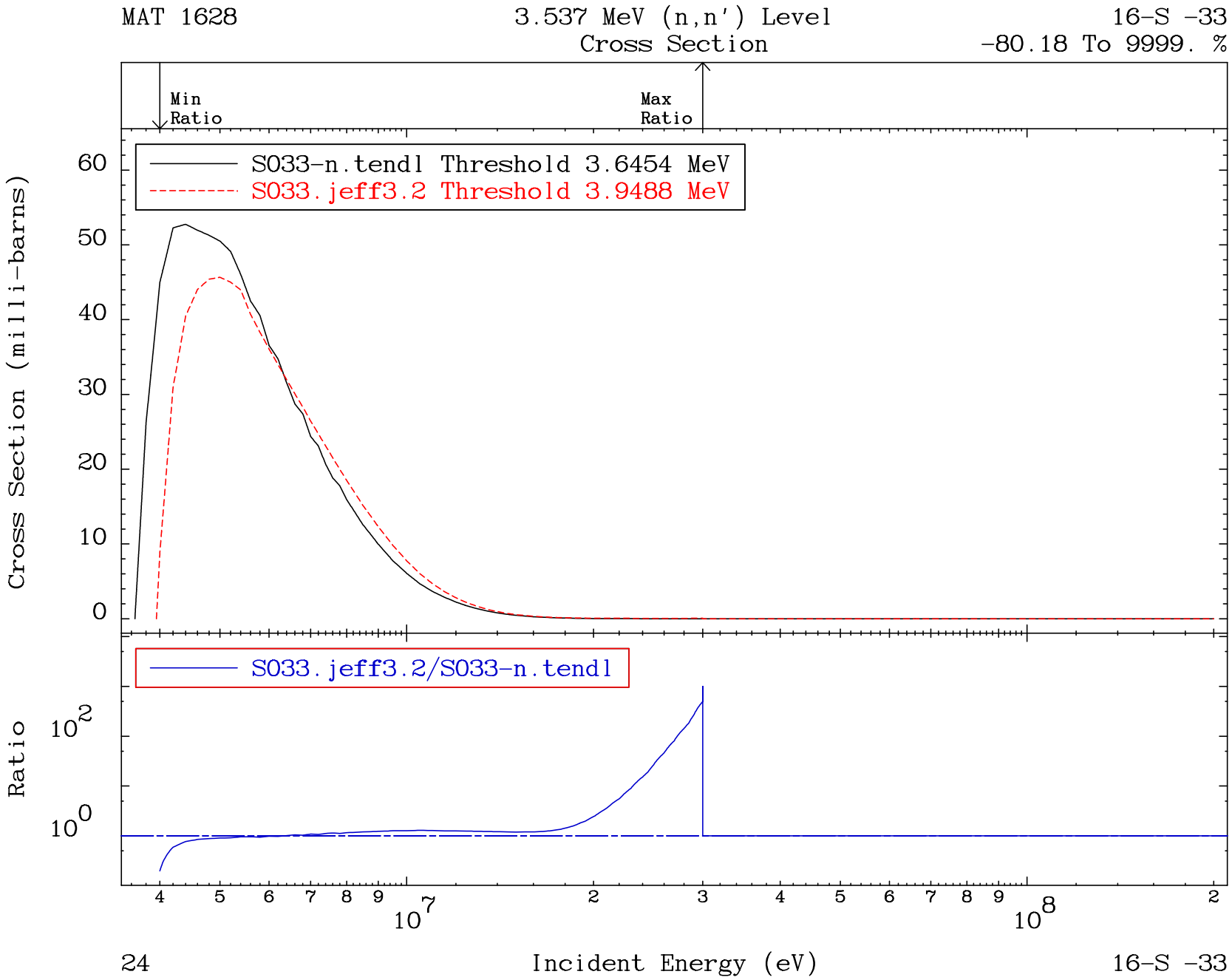

MAT 1628
2.313 MeV (n,n') Level
Cross Section
16-S -33
-1.902 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 2.3842 MeV
S033.jeff3.2 Threshold 2.3842 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
S033.jeff3.2/S033-n.tendl
Ratio
10^2
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
16-S -33

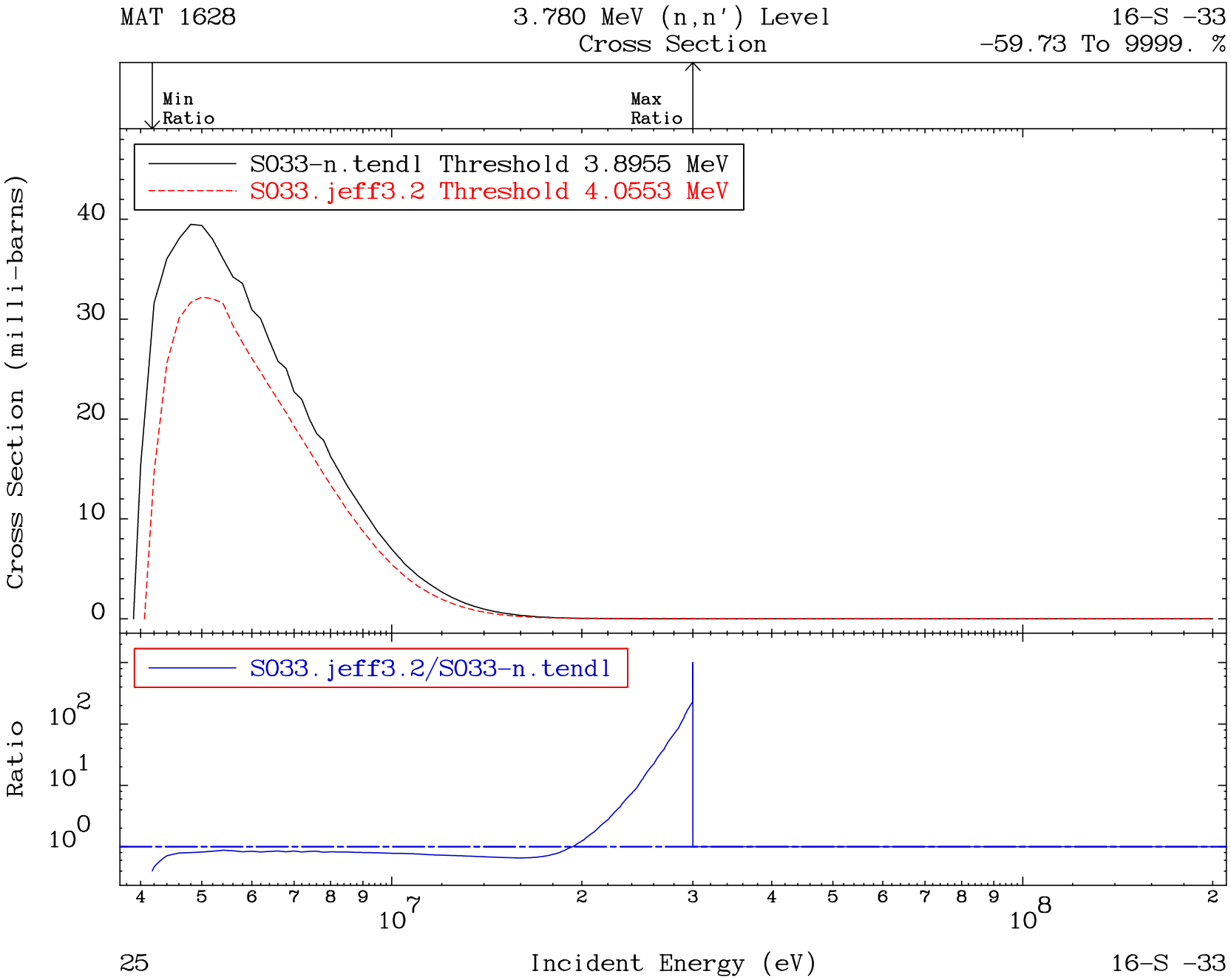

MAT 1628
2.868 MeV (n,n') Level
Cross Section
16-S -33
-2.070 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 2.9554 MeV
S033.jeff3.2 Threshold 2.9554 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
20
16-S -33

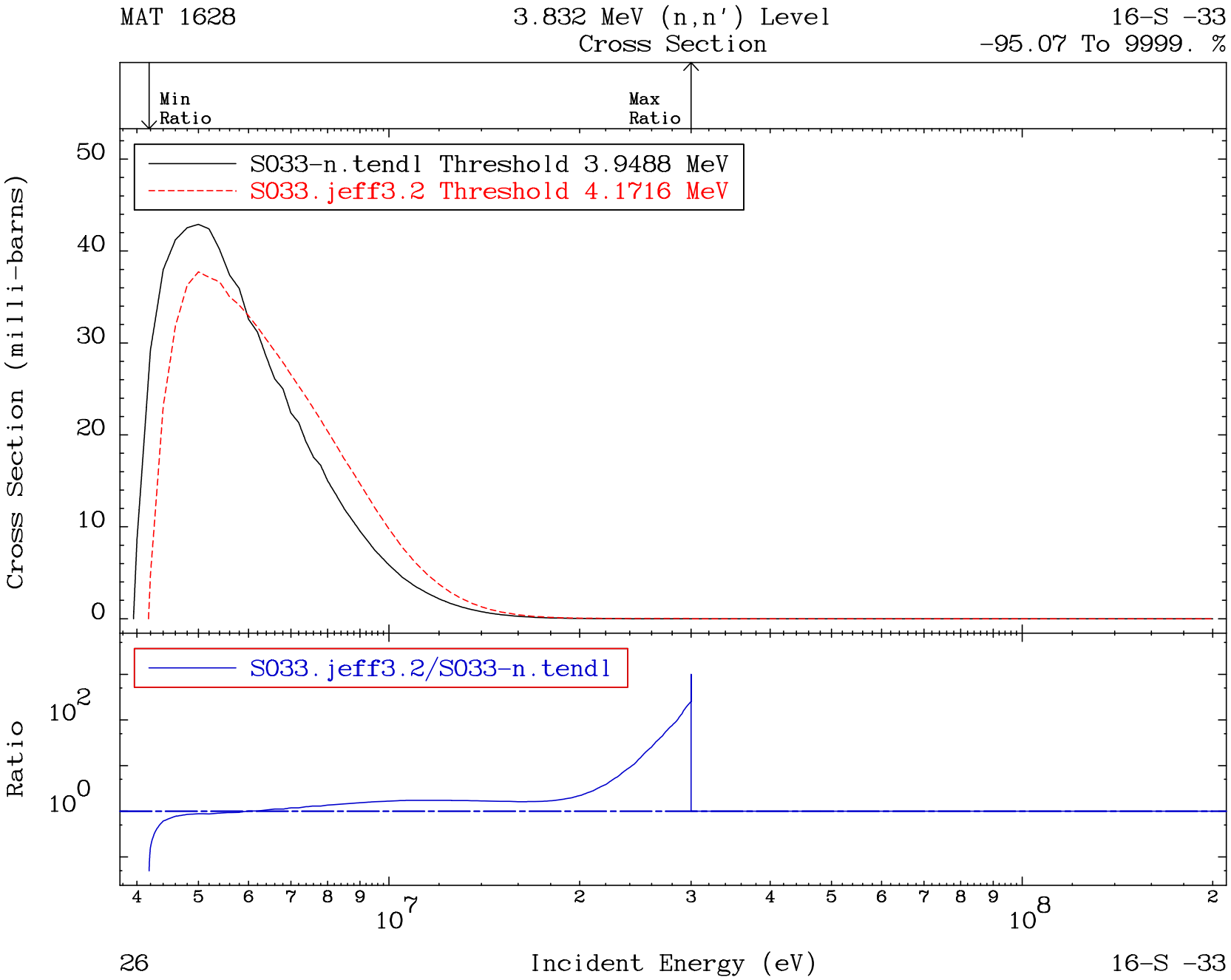

MAT 1628
2.935 MeV (n,n') Level
Cross Section
16-S -33
-3.006 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 3.0245 MeV
S033.jeff3.2 Threshold 3.0250 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
S033.jeff3.2/S033-n.tendl
Ratio
10^2
10^1
10^0
4
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
21
Incident Energy (eV)
16-S -33

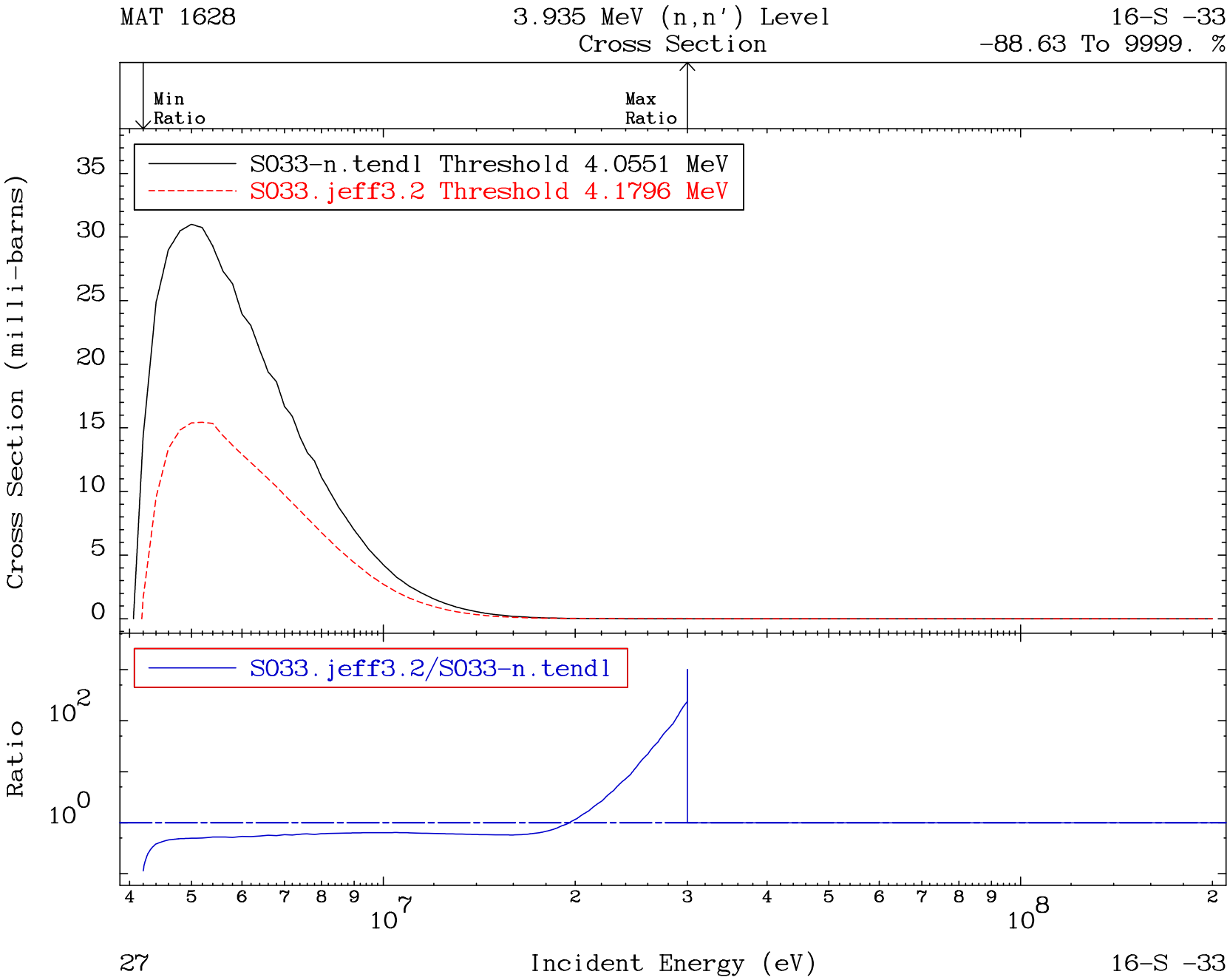

MAT 1628
2.969 MeV (n,n') Level
Cross Section
16-S -33
-1.714 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 3.0600 MeV
S033.jeff3.2 Threshold 3.0594 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
S033.jeff3.2/S033-n.tendl
Ratio
10^3
10^2
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
16-S -33

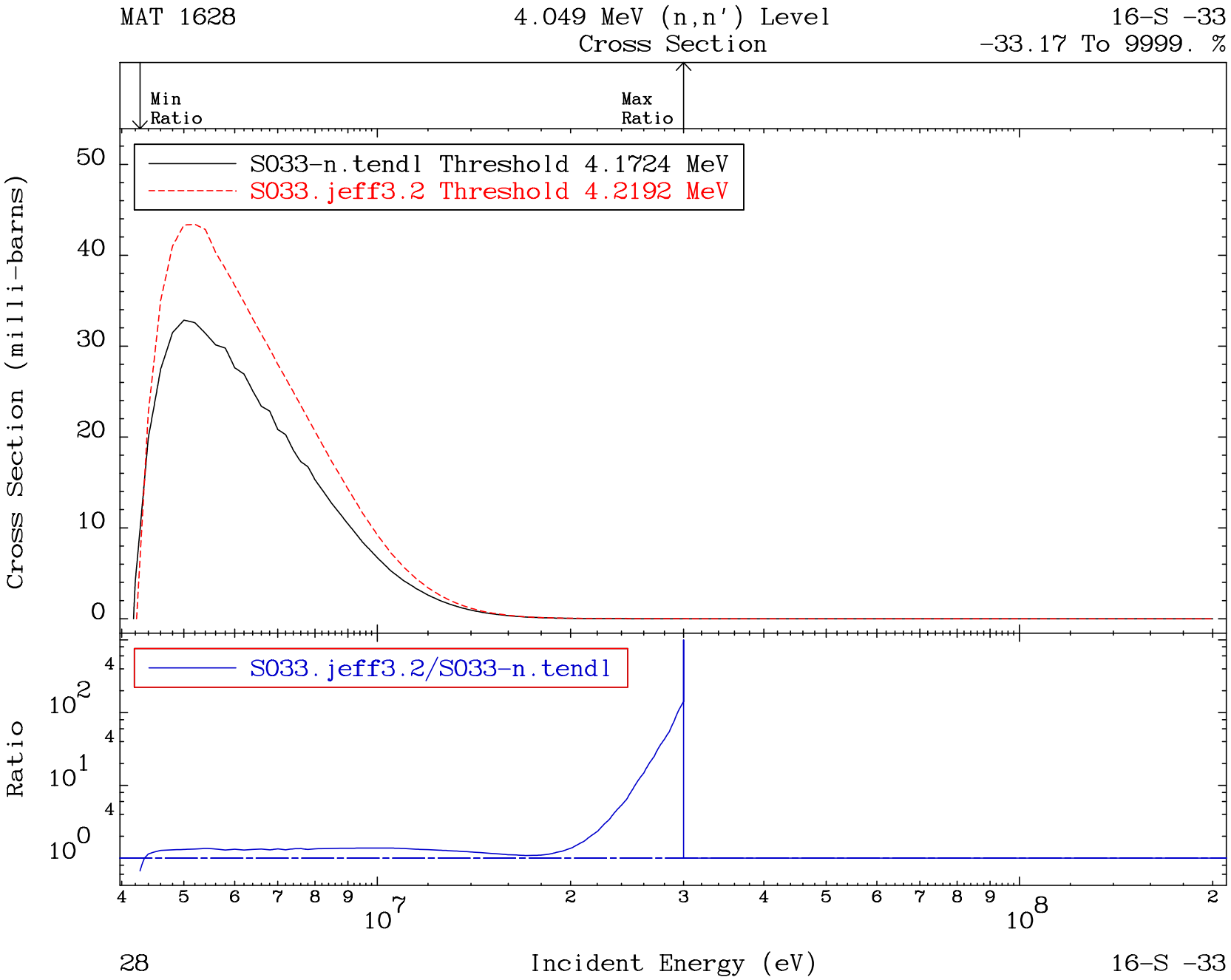

MAT 1628
3.221 MeV (n,n') Level
Cross Section
16-S -33
-1.932 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 3.3192 MeV
S033.jeff3.2 Threshold 3.3192 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
S033.jeff3.2/S033-n.tendl
Ratio
10^2
10^1
10^0
4
4
4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
16-S -33

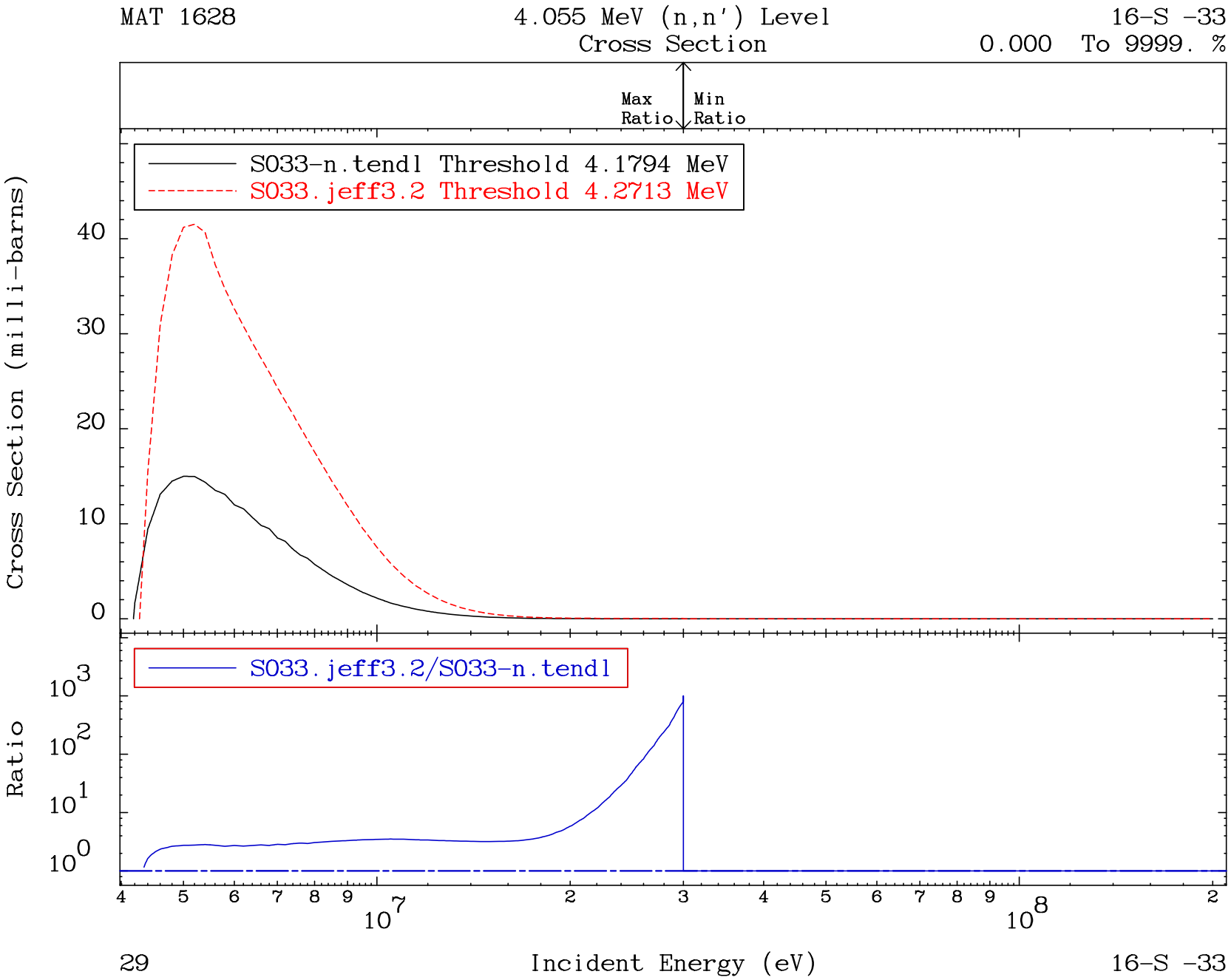

MAT 1628
3.537 MeV (n,n') Level
Cross Section
16-S -33
-80.18 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 3.6454 MeV
S033.jeff3.2 Threshold 3.9488 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
S033.jeff3.2/S033-n.tendl
Ratio
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
16-S -33

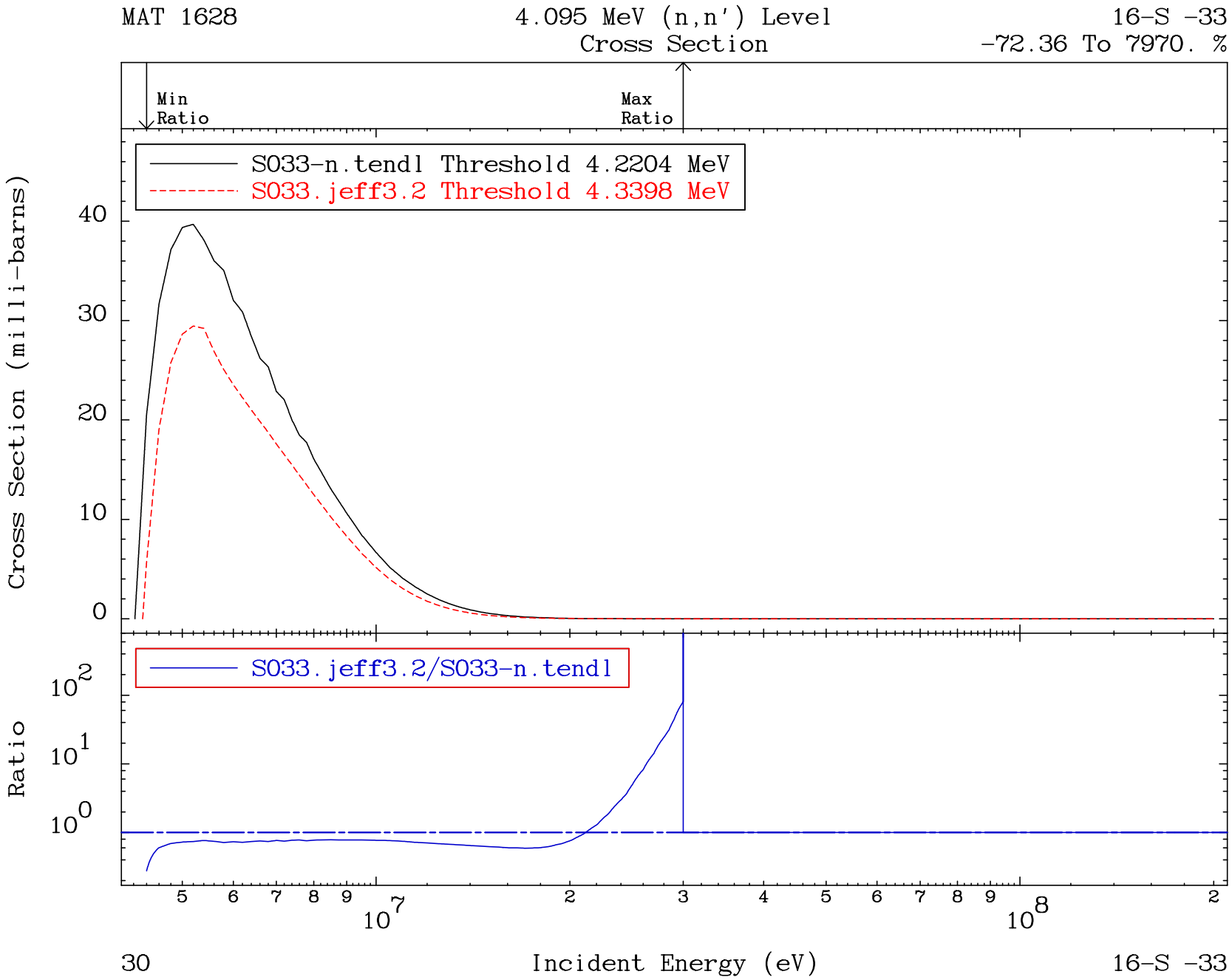

MAT 1628
3.780 MeV (n,n') Level
Cross Section
16-S -33
-59.73 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 3.8955 MeV
S033.jeff3.2 Threshold 4.0553 MeV
Cross Section (milli-barns)
40
30
20
10
0
S033.jeff3.2/S033-n.tendl
Ratio
10^2
10^1
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
25
Incident Energy (eV)
16-S -33

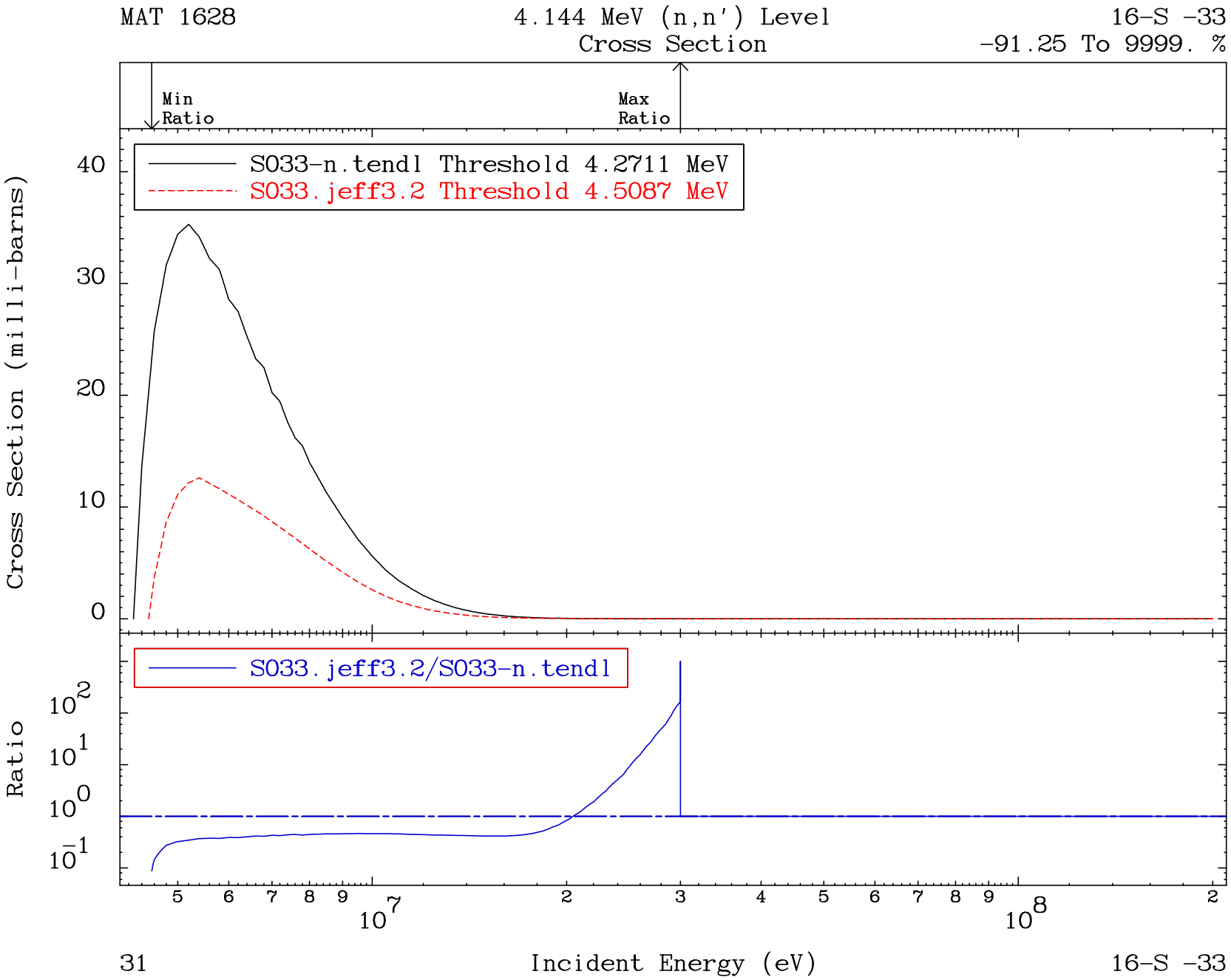

MAT 1628
3.832 MeV (n,n') Level
Cross Section
16-S -33
-95.07 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 3.9488 MeV
S033.jeff3.2 Threshold 4.1716 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
S033.jeff3.2/S033-n.tendl
Ratio
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
16-S -33

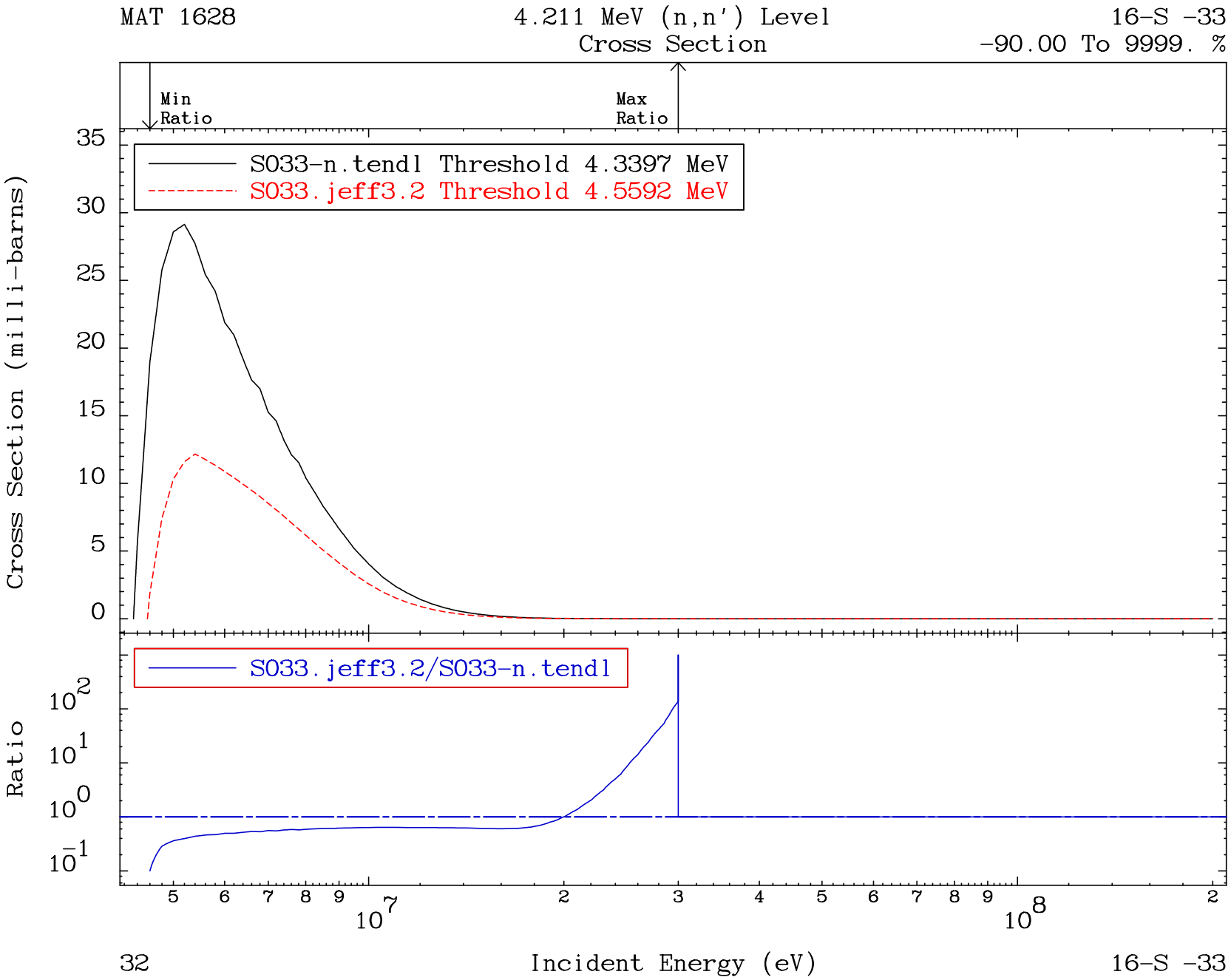

MAT 1628
3.935 MeV (n,n') Level
Cross Section
16-S -33
-88.63 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 4.0551 MeV
S033.jeff3.2 Threshold 4.1796 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
S033.jeff3.2/S033-n.tendl
Ratio
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
16-S -33

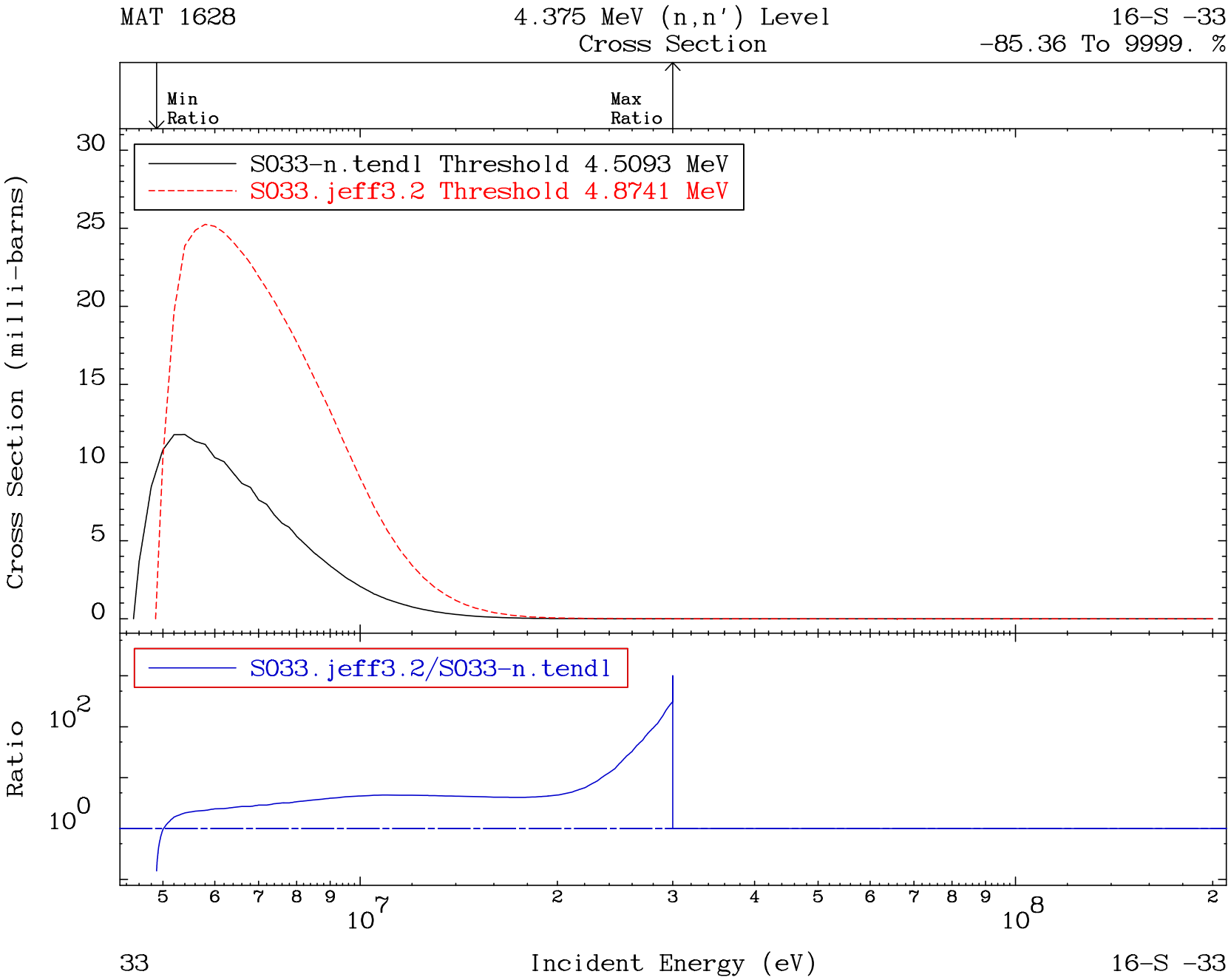

MAT 1628
4.049 MeV (n,n') Level
Cross Section
16-S -33
-33.17 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 4.1724 MeV
S033.jeff3.2 Threshold 4.2192 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
S033.jeff3.2/S033-n.tendl
Ratio
10^2
10^1
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
16-S -33

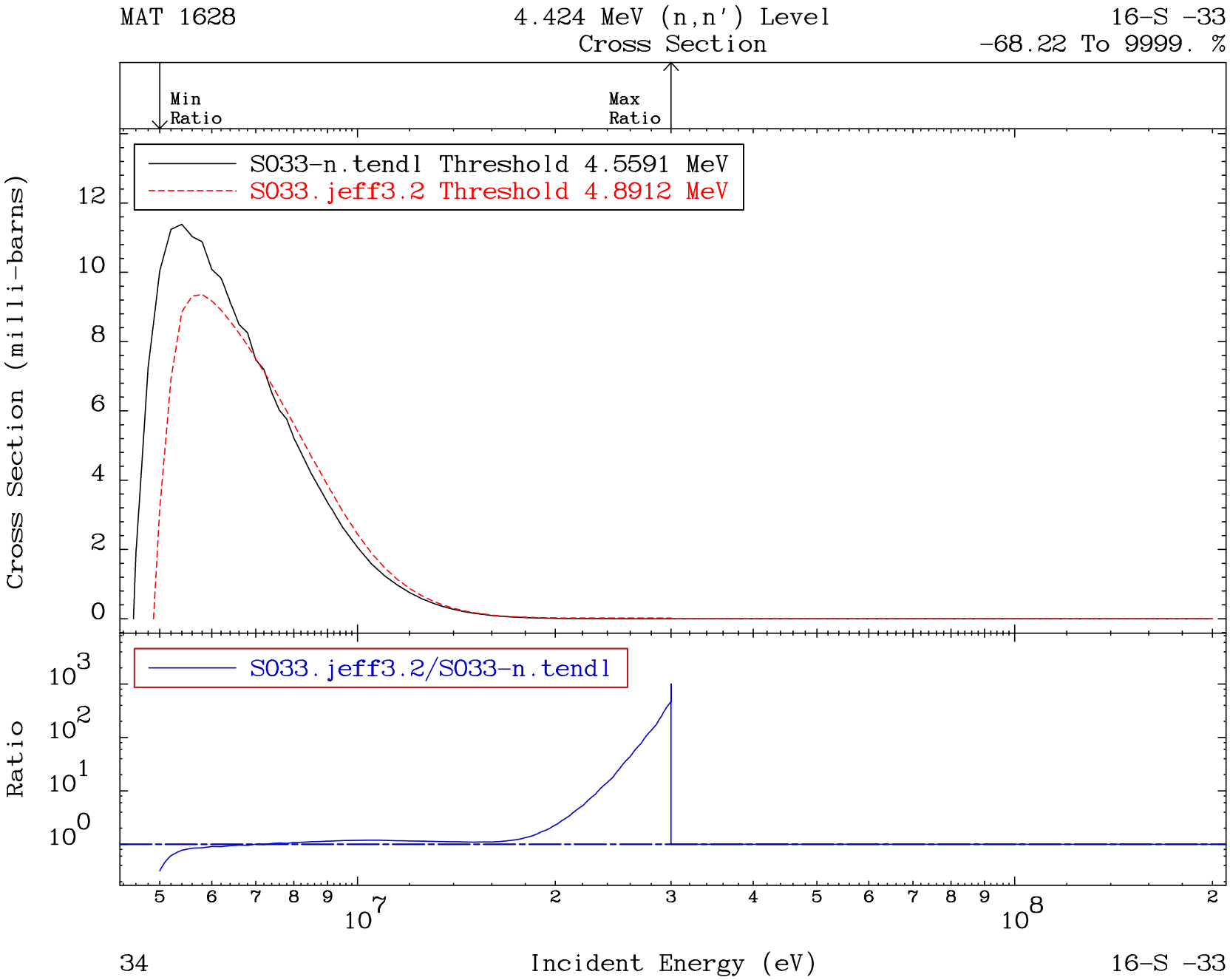

MAT 1628
4.055 MeV (n,n') Level
Cross Section
16-S -33
0.000 To 9999. %
Max Ratio
Min Ratio
S033-n.tendl Threshold 4.1794 MeV
S033.jeff3.2 Threshold 4.2713 MeV
Cross Section (milli-barns)
40
30
20
10
0
S033.jeff3.2/S033-n.tendl
Ratio
10^3
10^2
10^1
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
16-S -33

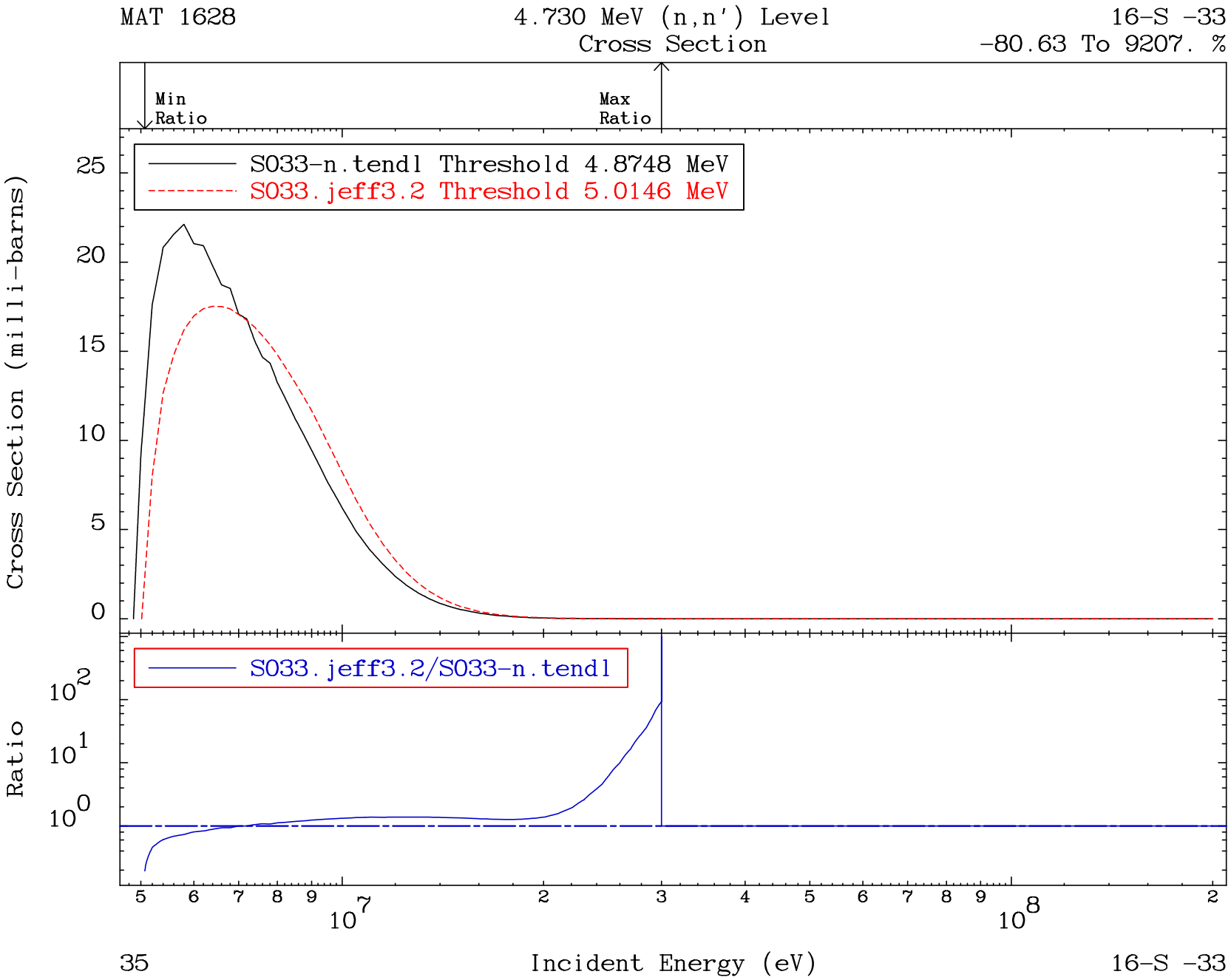

MAT 1628
4.095 MeV (n,n') Level
Cross Section
16-S -33
-72.36 To 7970. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 4.2204 MeV
S033.jeff3.2 Threshold 4.3398 MeV
Cross Section (milli-barns)
40
30
20
10
0
S033.jeff3.2/S033-n.tendl
Ratio
10^2
10^1
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
16-S -33

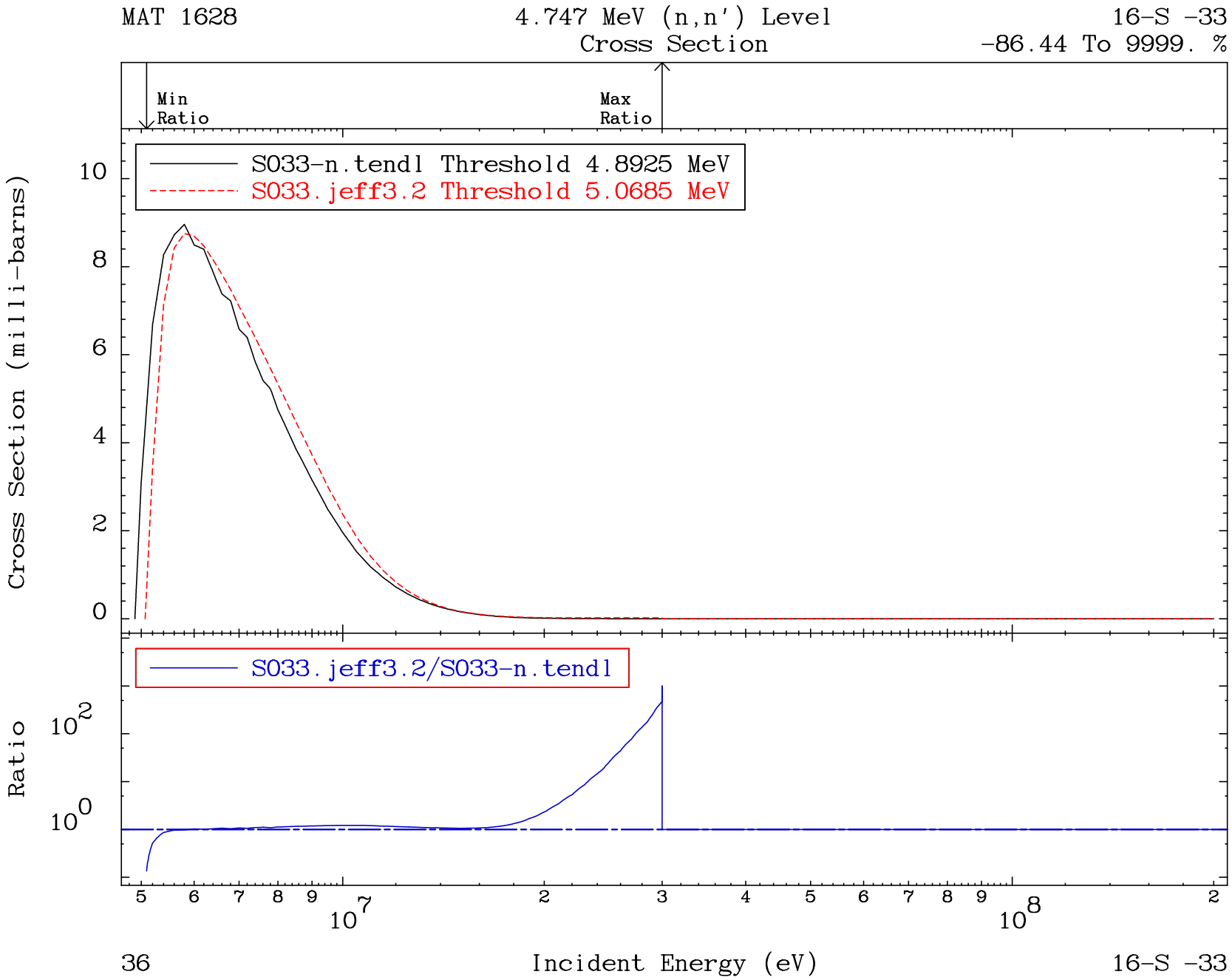

MAT 1628
4.144 MeV (n,n') Level
Cross Section
16-S -33
-91.25 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 4.2711 MeV
S033.jeff3.2 Threshold 4.5087 MeV
Cross Section (milli-barns)
40
30
20
10
0
S033.jeff3.2/S033-n.tendl
Ratio
10^2
10^1
10^0
10^-1
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
16-S -33

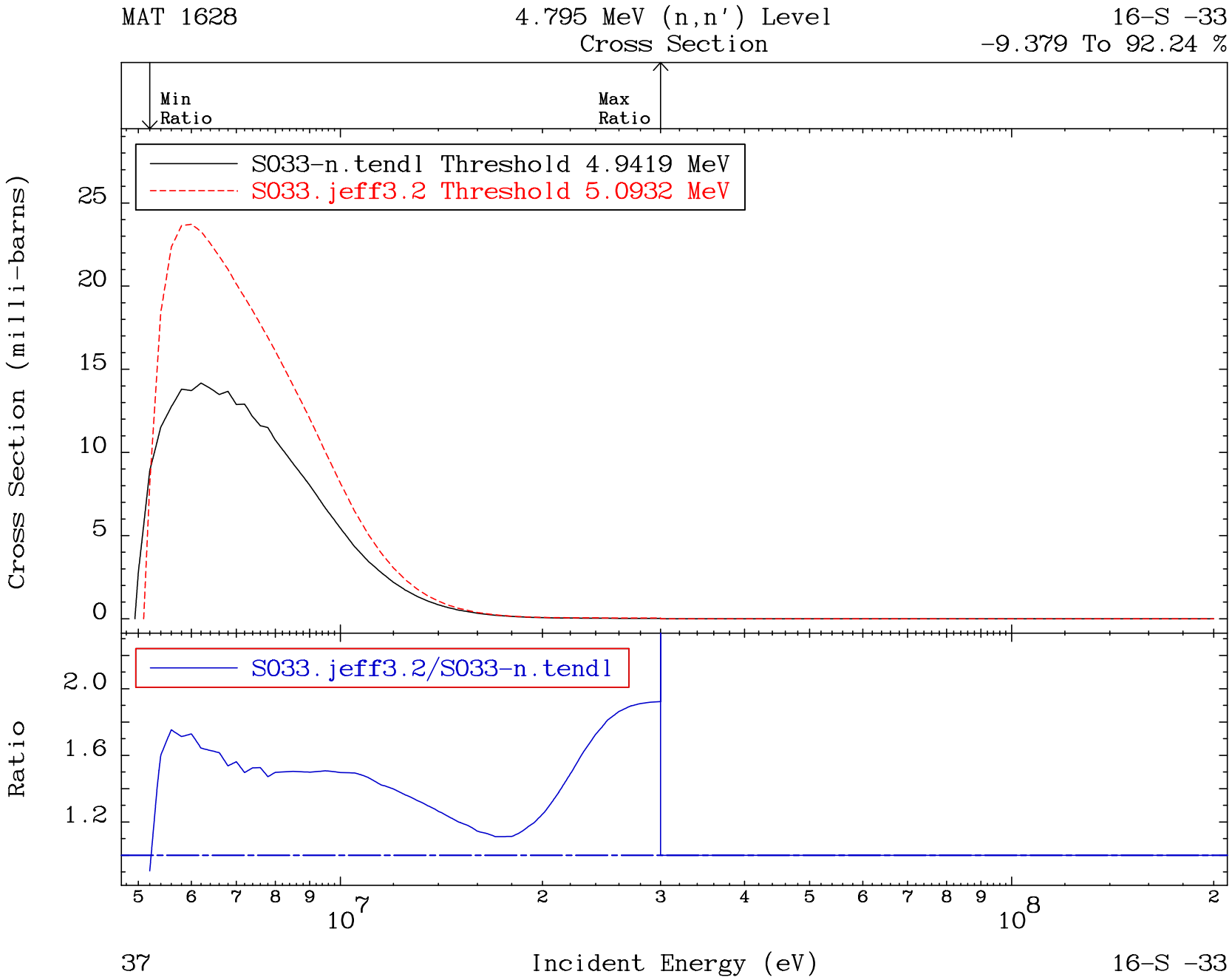

MAT 1628
4.211 MeV (n,n') Level
Cross Section
16-S -33
-90.00 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 4.3397 MeV
S033.jeff3.2 Threshold 4.5592 MeV
Cross Section (milli-barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
32
16-S -33

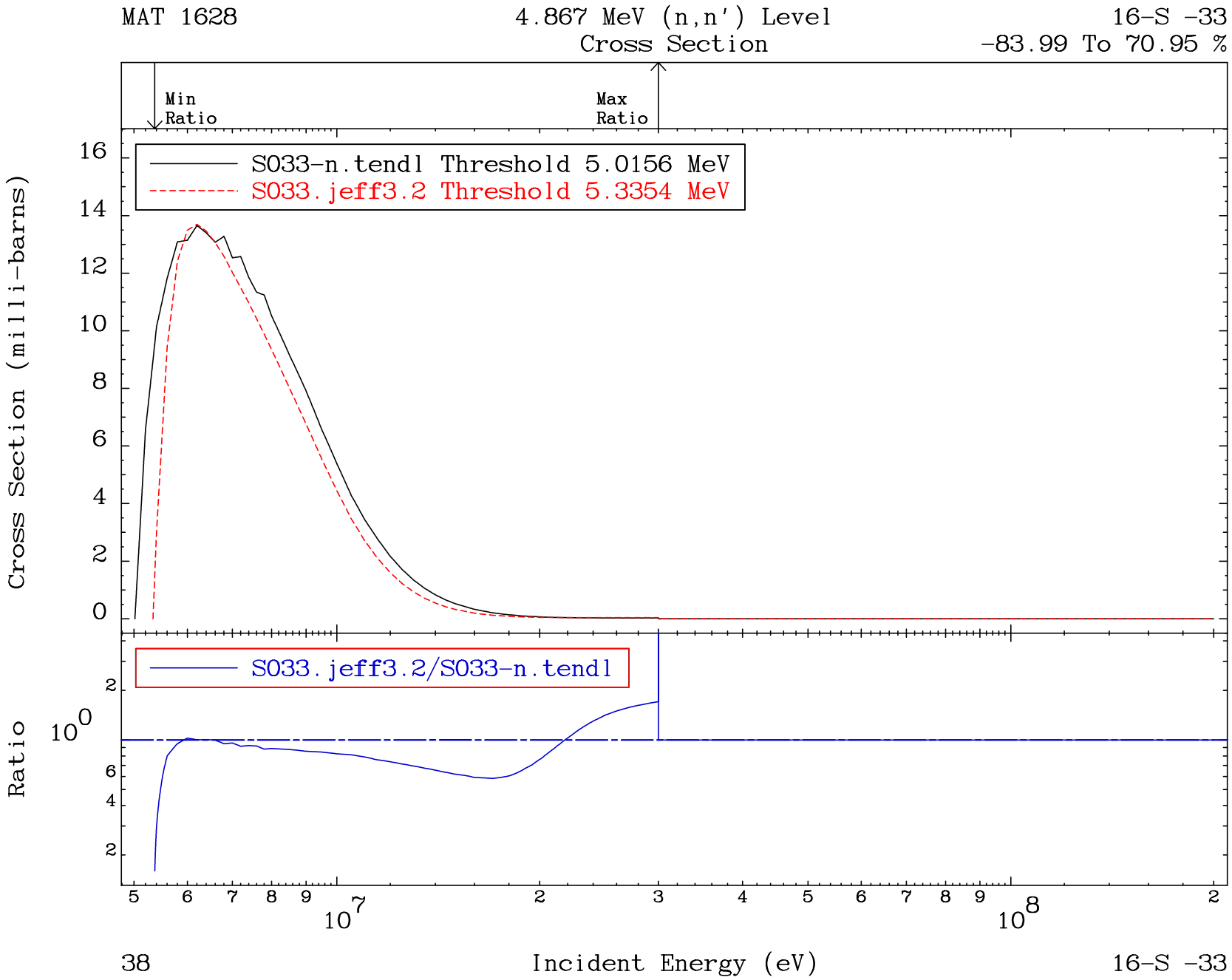

MAT 1628
4.375 MeV (n,n') Level
Cross Section
16-S -33
-85.36 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 4.5093 MeV
S033.jeff3.2 Threshold 4.8741 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
S033.jeff3.2/S033-n.tendl
Ratio
10^2
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
16-S -33

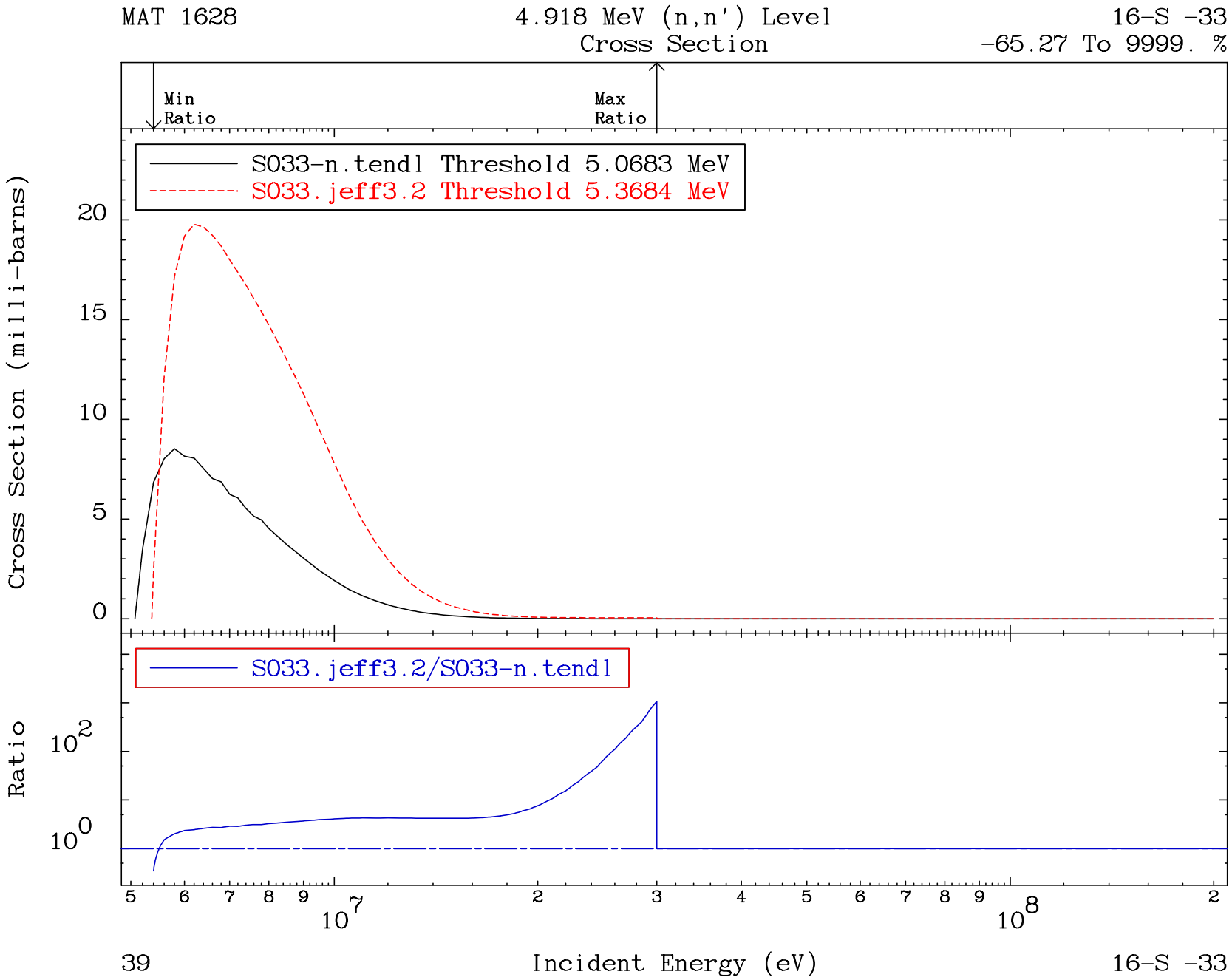

MAT 1628
4.424 MeV (n,n') Level
Cross Section
16-S -33
-68.22 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 4.5591 MeV
S033.jeff3.2 Threshold 4.8912 MeV
Cross Section (milli-barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
34
16-S -33

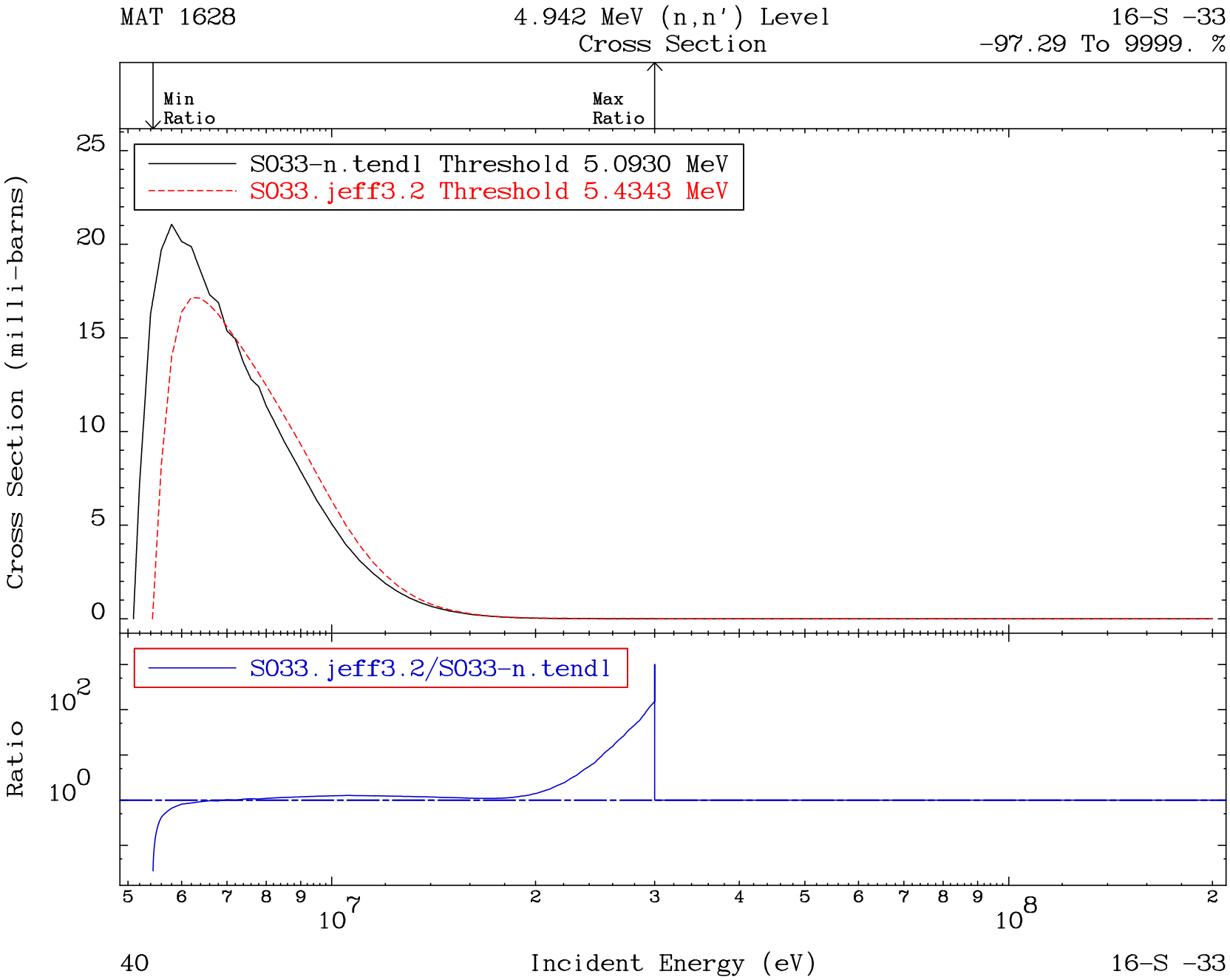

MAT 1628
4.730 MeV (n,n') Level
Cross Section
16-S -33
-80.63 To 9207. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 4.8748 MeV
S033.jeff3.2 Threshold 5.0146 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
S033.jeff3.2/S033-n.tendl
Ratio
10^2
10^1
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
16-S -33

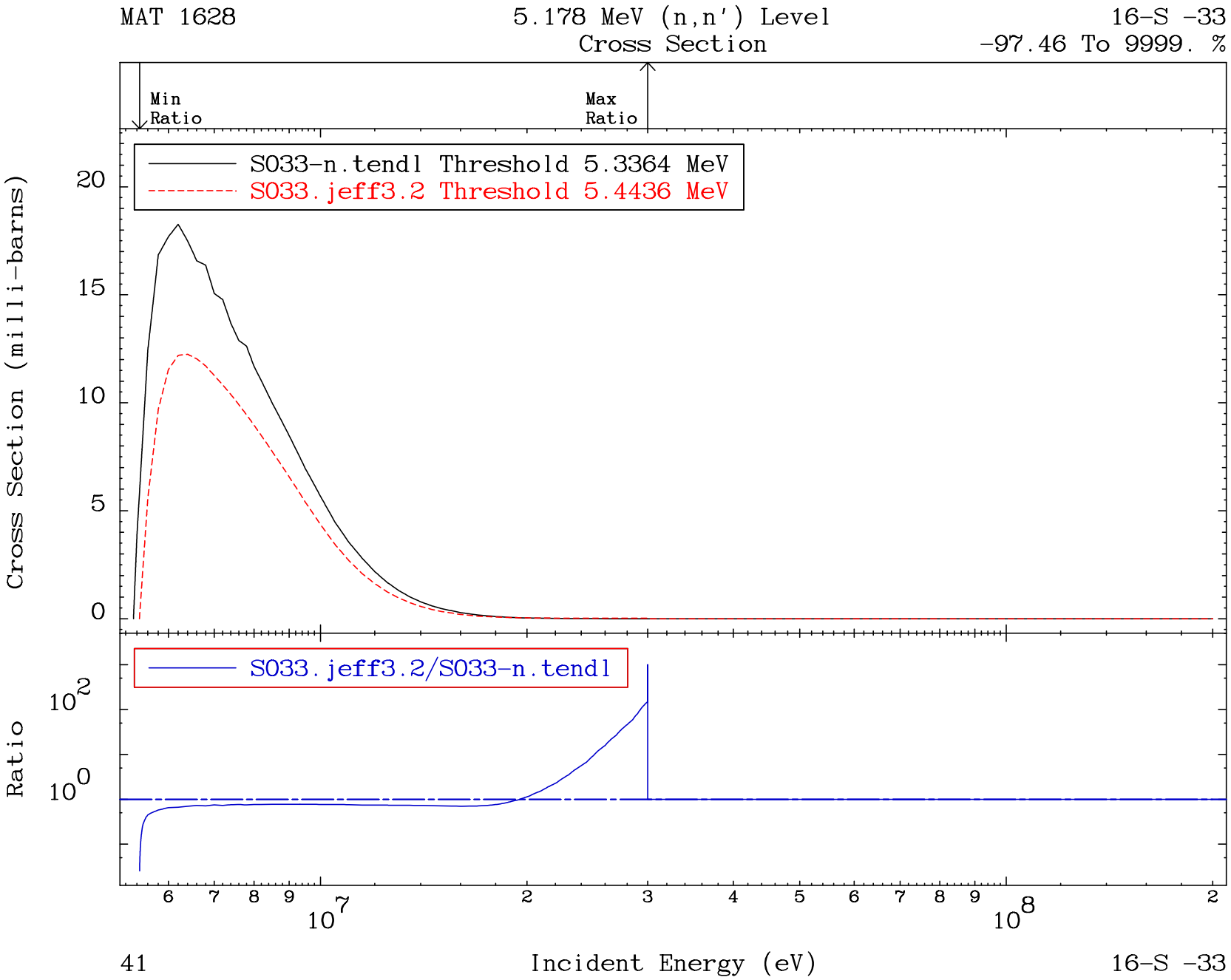

MAT 1628
4.747 MeV (n,n') Level
Cross Section
16-S -33
-86.44 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 4.8925 MeV
S033.jeff3.2 Threshold 5.0685 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
S033.jeff3.2/S033-n.tendl
Ratio
10^2
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
36
16-S -33

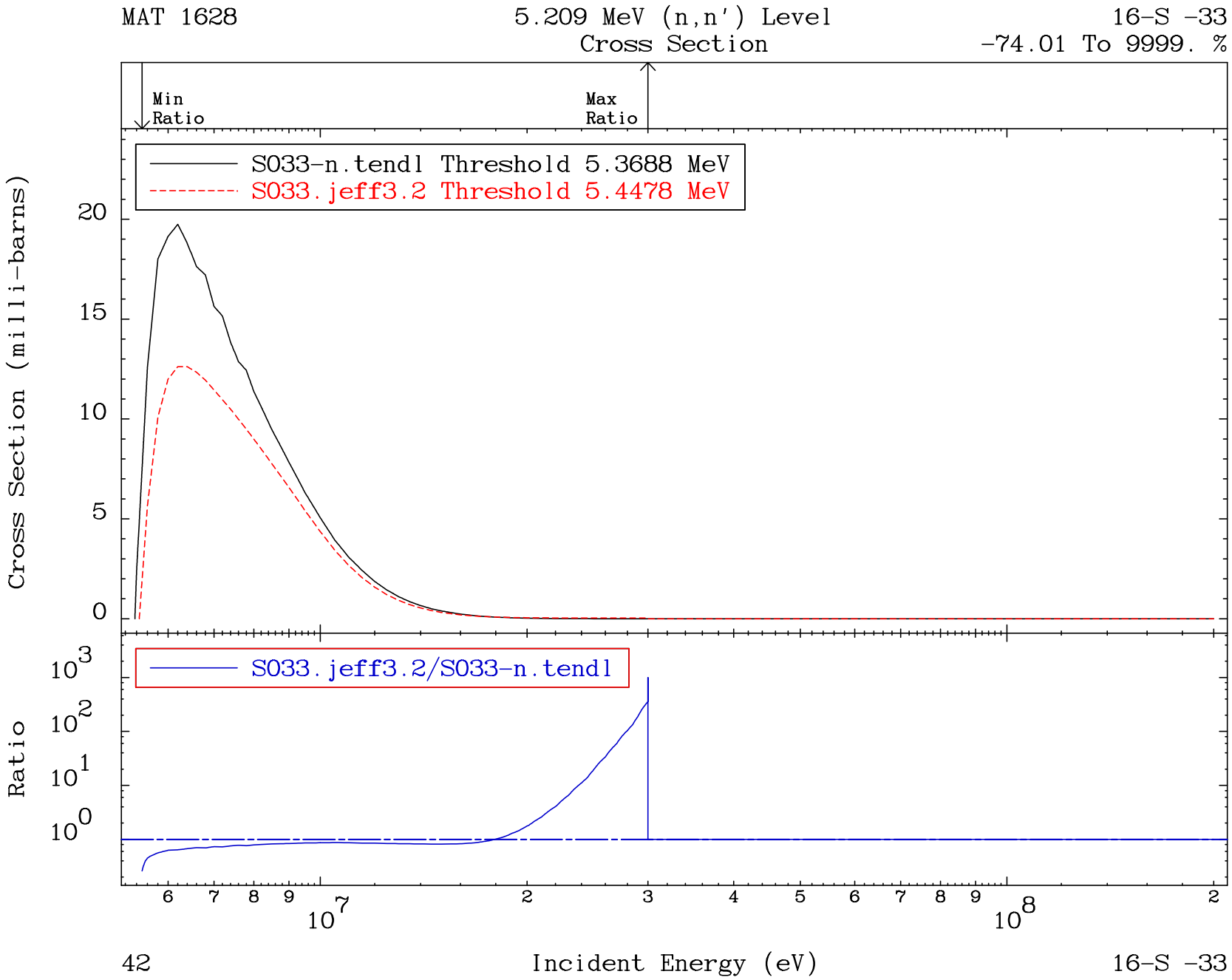

MAT 1628
4.795 MeV (n,n') Level
Cross Section
16-S -33
-9.379 To 92.24 %
Min Ratio
Max Ratio
S033-n.tendl Threshold 4.9419 MeV
S033.jeff3.2 Threshold 5.0932 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
S033.jeff3.2/S033-n.tendl
Ratio
2.0
1.6
1.2
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
16-S -33

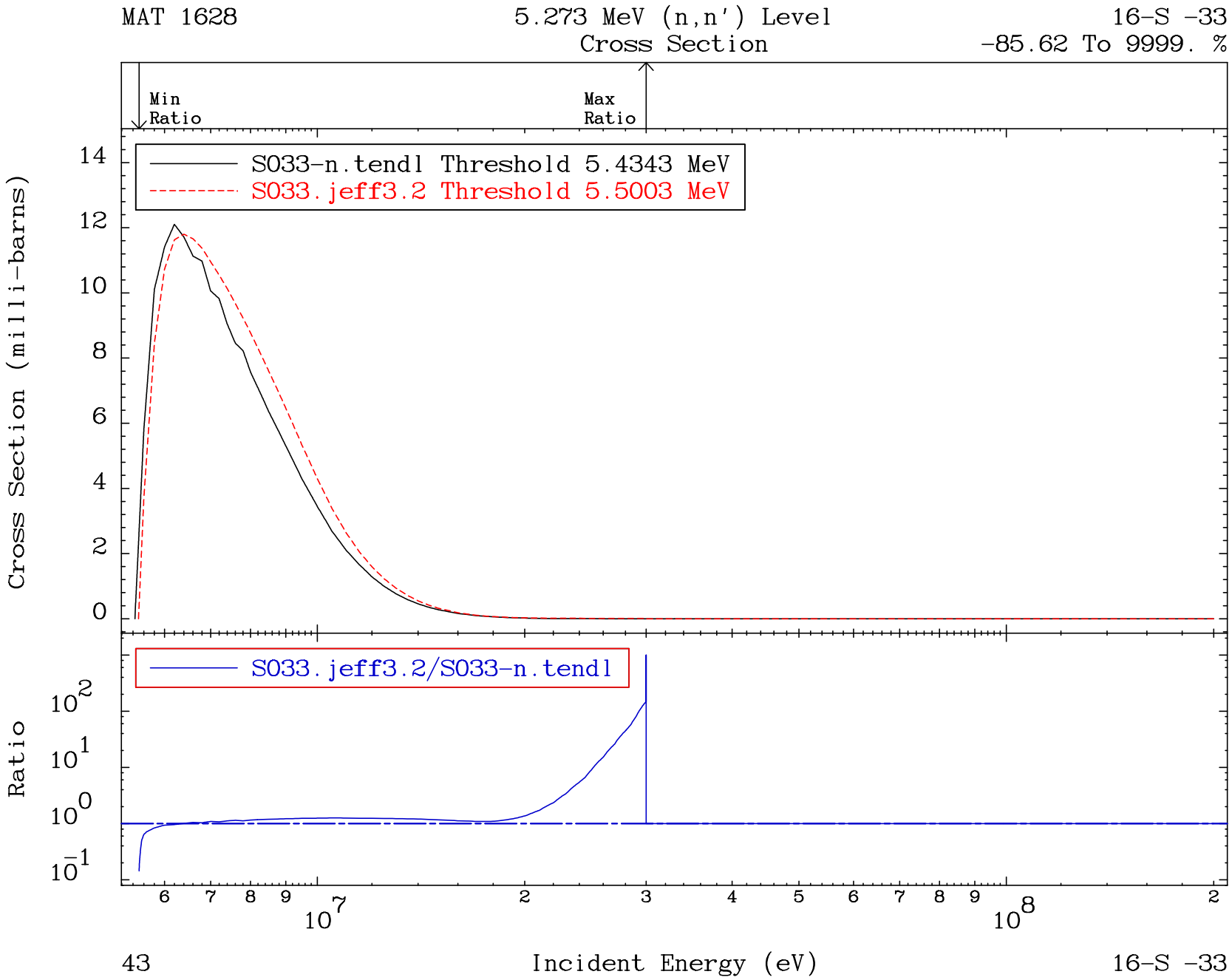

MAT 1628
4.867 MeV (n,n') Level
Cross Section
16-S -33
-83.99 To 70.95 %
Min Ratio
Max Ratio
S033-n.tendl Threshold 5.0156 MeV
S033.jeff3.2 Threshold 5.3354 MeV
Cross Section (milli-barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
38
16-S -33

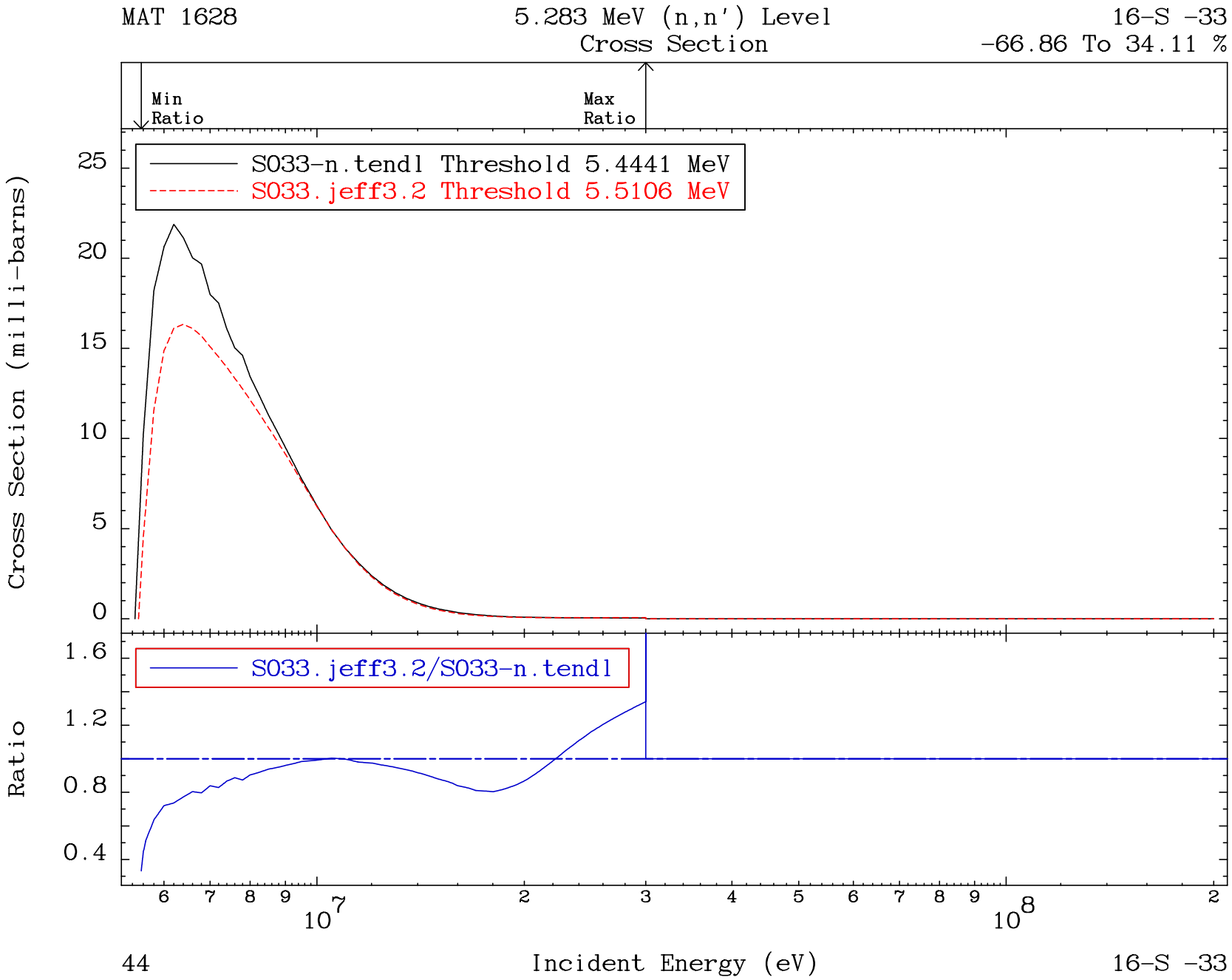

MAT 1628
4.918 MeV (n,n') Level
Cross Section
16-S -33
-65.27 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 5.0683 MeV
S033.jeff3.2 Threshold 5.3684 MeV
Cross Section (milli-barns)
20
15
10
5
0
S033.jeff3.2/S033-n.tendl
Ratio
10^2
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
16-S -33

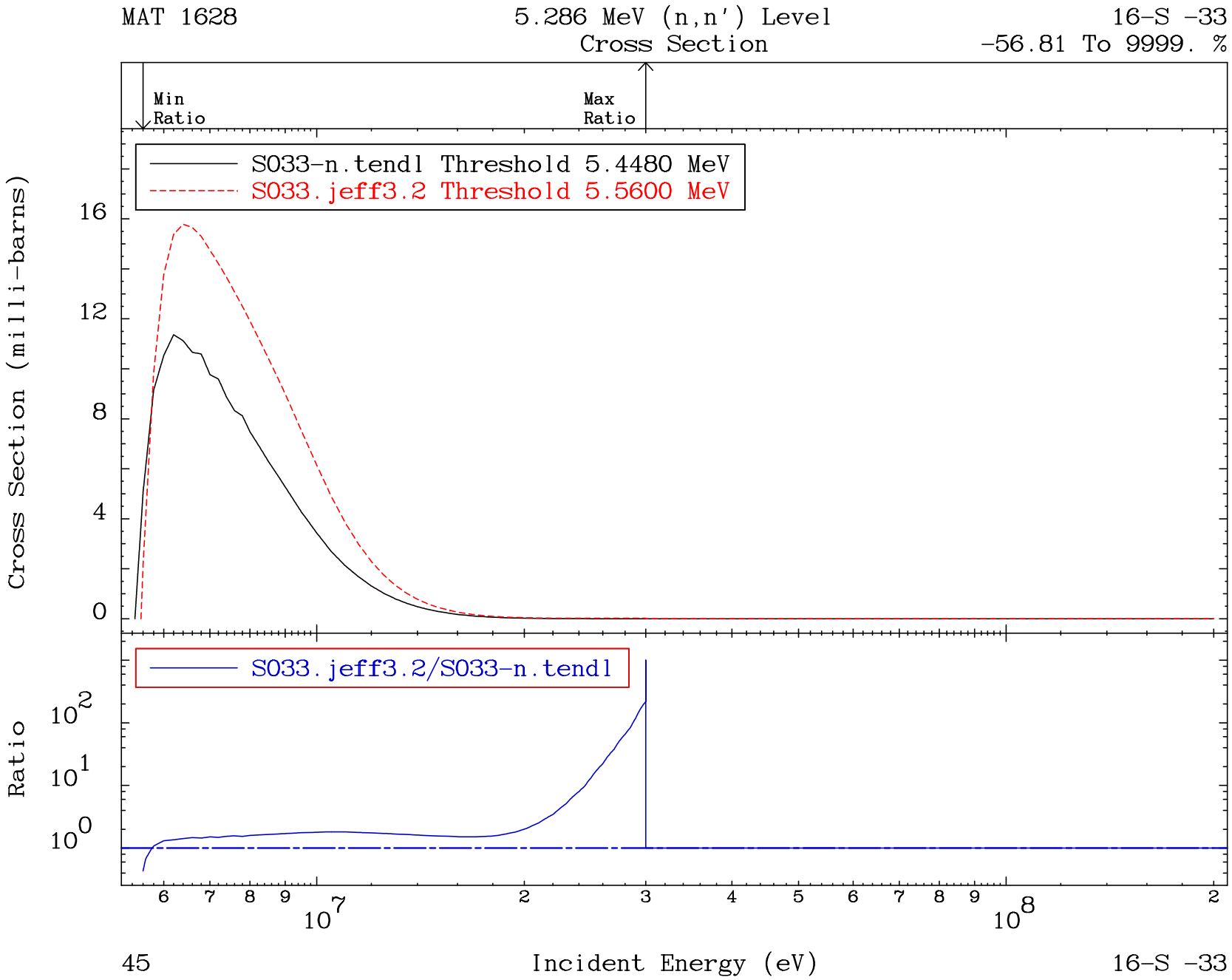

MAT 1628
4.942 MeV (n,n') Level
Cross Section
16-S -33
-97.29 To 9999. %
Min
Ratio
Max
Ratio
S033-n.tendl Threshold 5.0930 MeV
S033.jeff3.2 Threshold 5.4343 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
S033.jeff3.2/S033-n.tendl
Ratio
10^2
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
40
Incident Energy (eV)
16-S -33

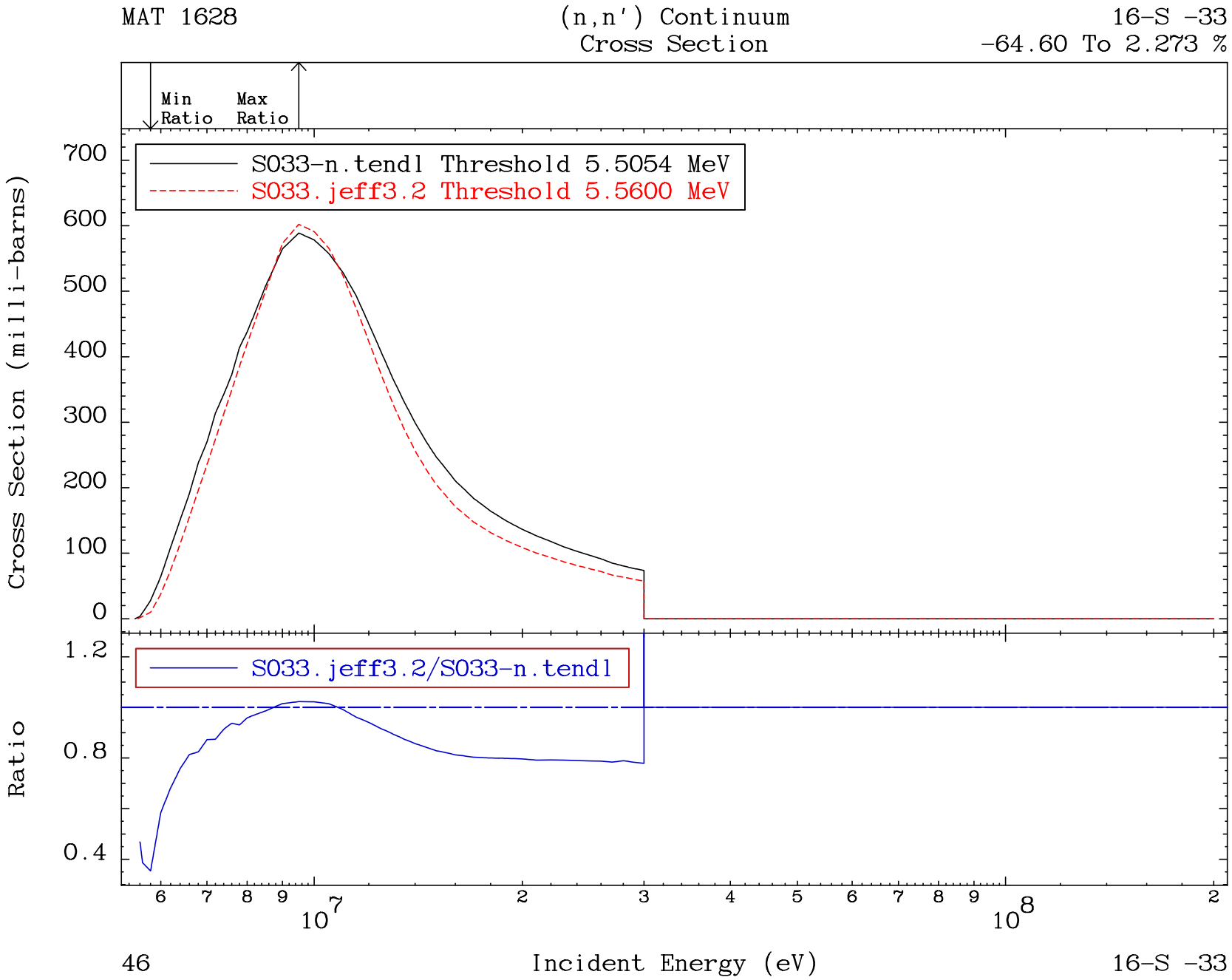

MAT 1628
5.178 MeV (n,n') Level
Cross Section
16-S -33
-97.46 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 5.3364 MeV
S033.jeff3.2 Threshold 5.4436 MeV
Cross Section (milli-barns)
20
15
10
5
0
S033.jeff3.2/S033-n.tendl
Ratio
10^2
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
16-S -33

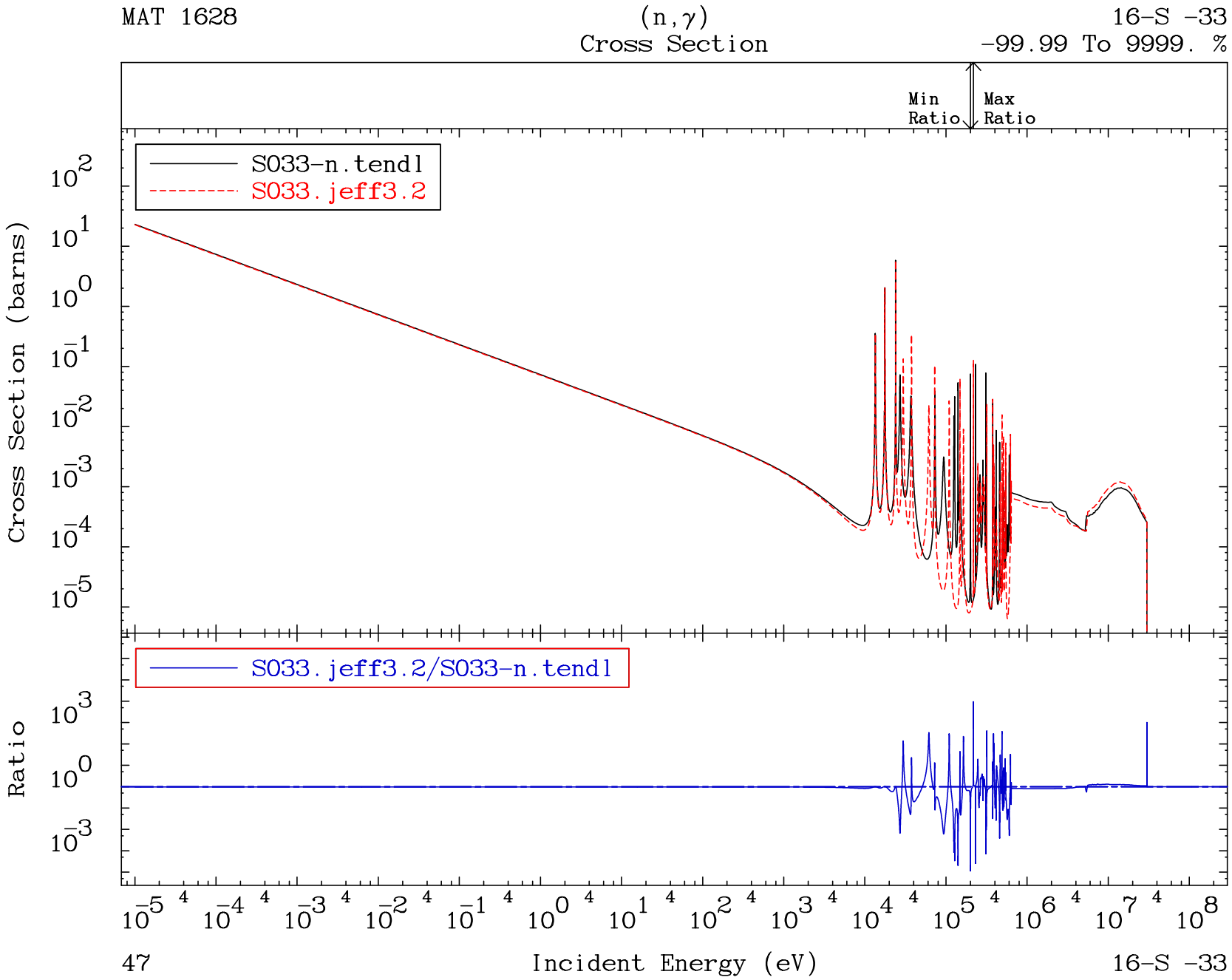

MAT 1628
5.209 MeV (n,n') Level
Cross Section
16-S -33
-74.01 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 5.3688 MeV
S033.jeff3.2 Threshold 5.4478 MeV
Cross Section (milli-barns)
20
15
10
5
0
S033.jeff3.2/S033-n.tendl
Ratio
10^3
10^2
10^1
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
16-S -33

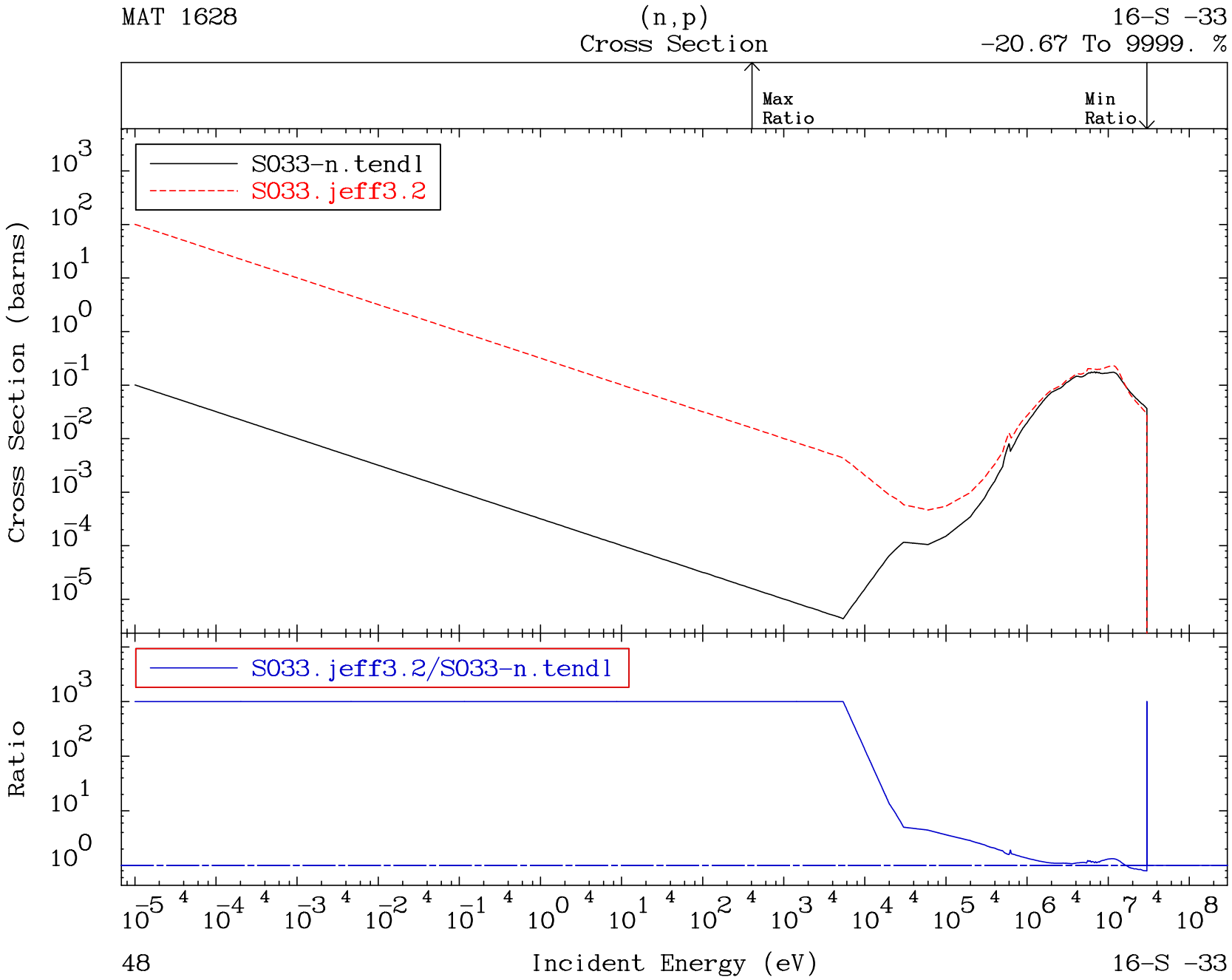

MAT 1628
5.273 MeV (n,n') Level
Cross Section
16-S -33
-85.62 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 5.4343 MeV
S033.jeff3.2 Threshold 5.5003 MeV
Cross Section (milli-barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
43
16-S -33

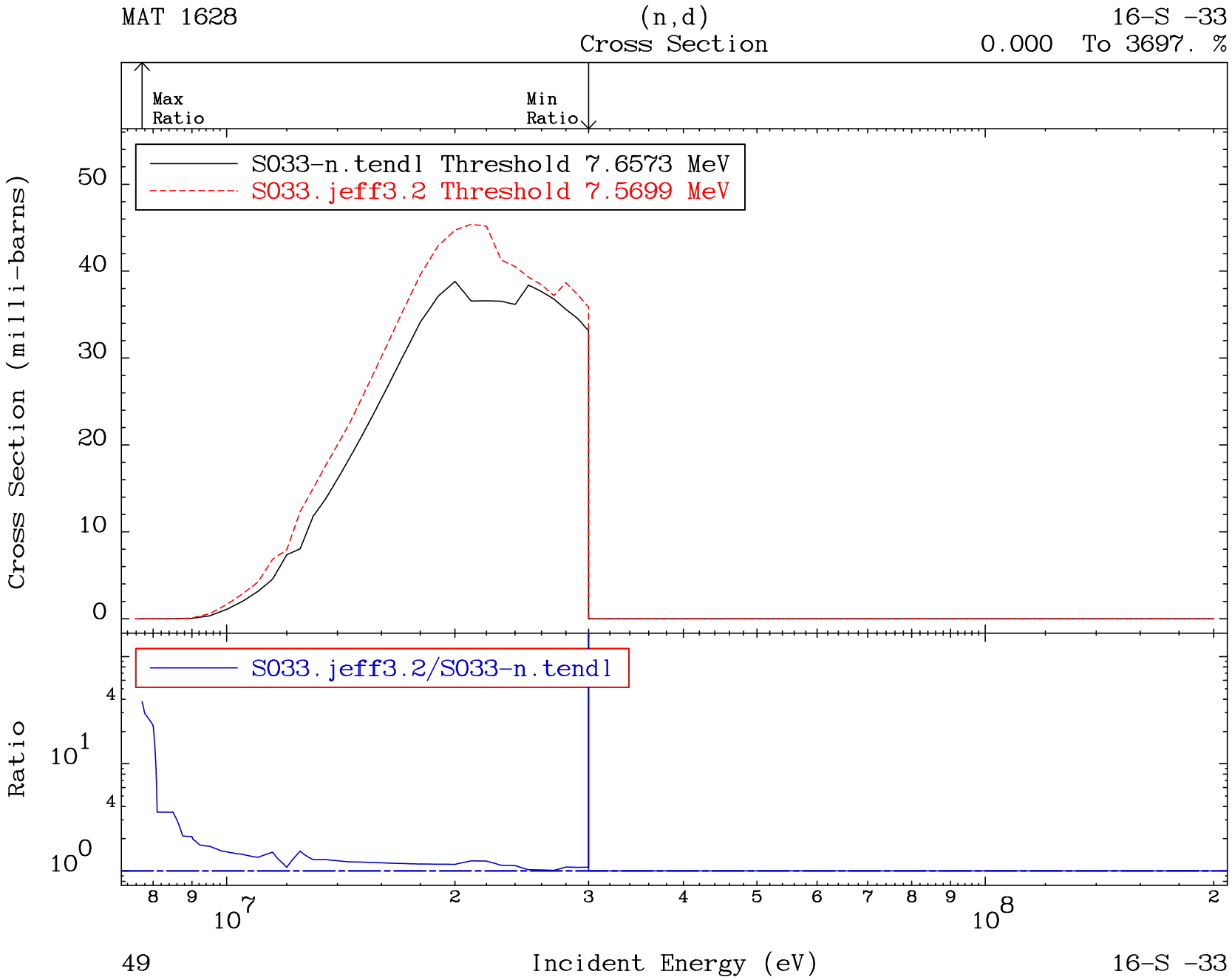

MAT 1628
5.283 MeV (n,n') Level
Cross Section
16-S -33
-66.86 To 34.11 %
Min Ratio
Max Ratio
S033-n.tendl Threshold 5.4441 MeV
S033.jeff3.2 Threshold 5.5106 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
S033.jeff3.2/S033-n.tendl
Ratio
1.6
1.2
0.8
0.4
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
16-S -33

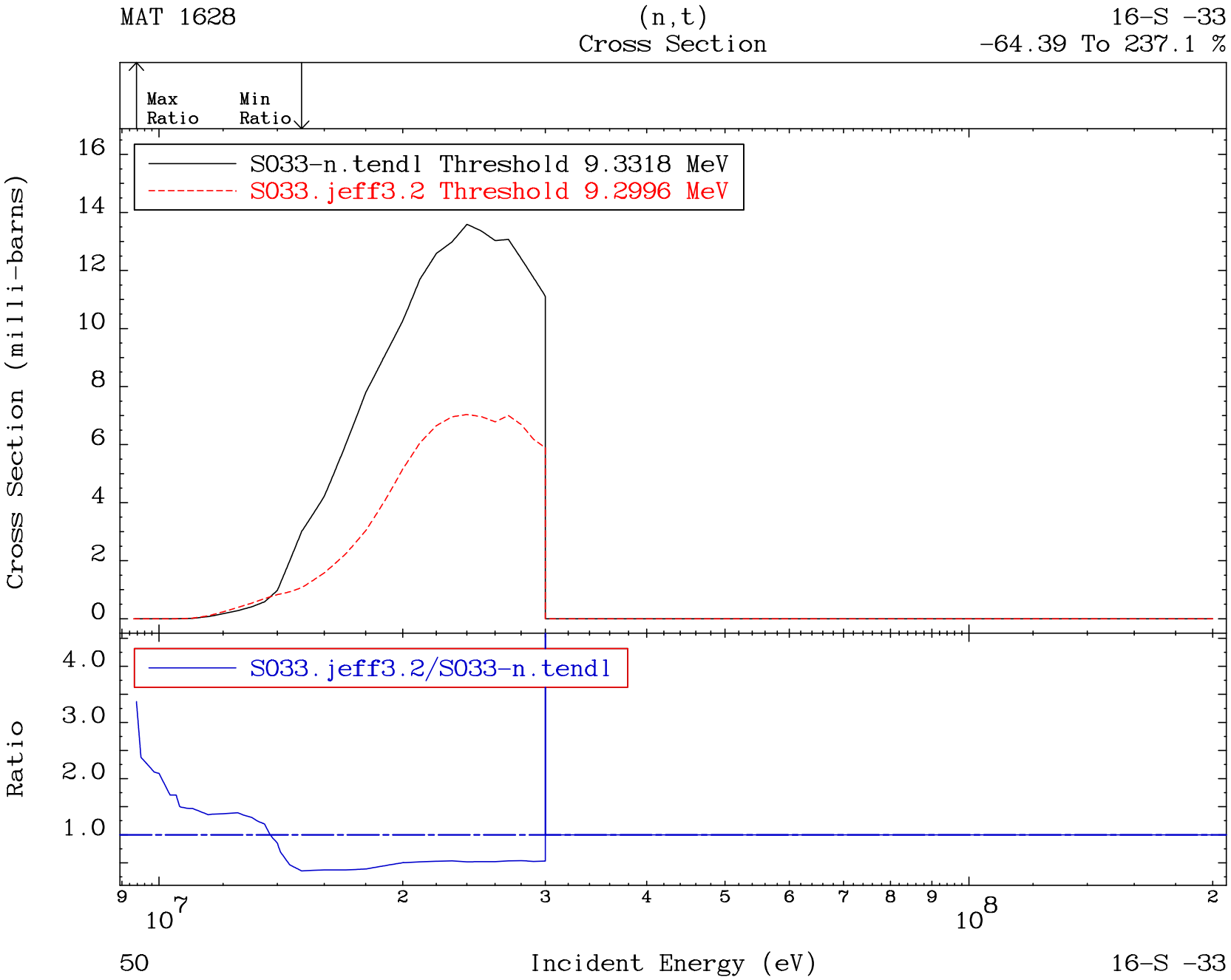

MAT 1628
5.286 MeV (n,n') Level
Cross Section
16-S -33
-56.81 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 5.4480 MeV
S033.jeff3.2 Threshold 5.5600 MeV
Cross Section (milli-barns)
16
12
8
4
0
S033.jeff3.2/S033-n.tendl
Ratio
10^2
10^1
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
16-S -33

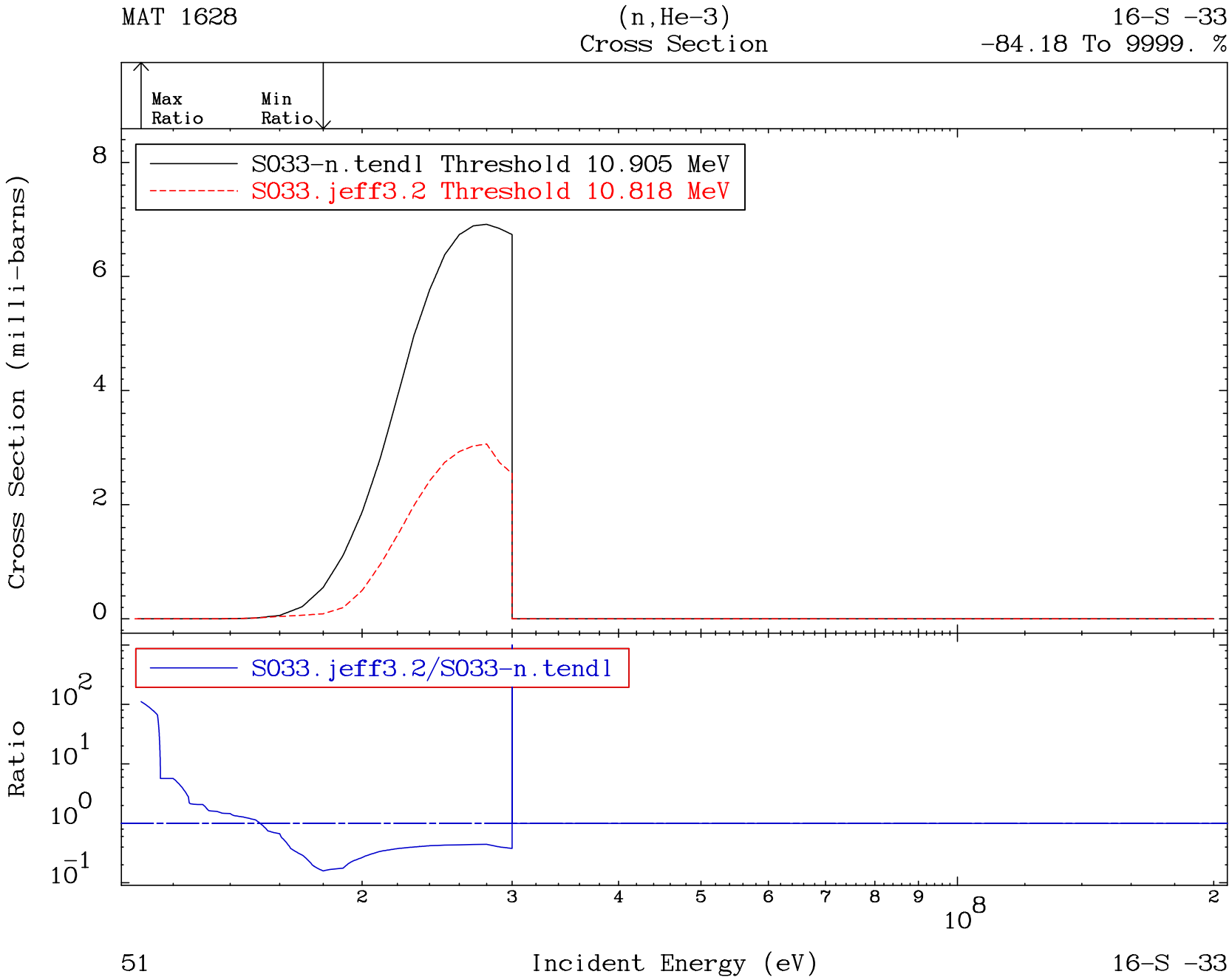

MAT 1628
(n,n') Continuum
Cross Section
16-S -33
-64.60 To 2.273 %
Min Ratio
Max Ratio
S033-n.tendl Threshold 5.5054 MeV
S033.jeff3.2 Threshold 5.5600 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
S033.jeff3.2/S033-n.tendl
Ratio
1.2
0.8
0.4
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
46
Incident Energy (eV)
16-S -33

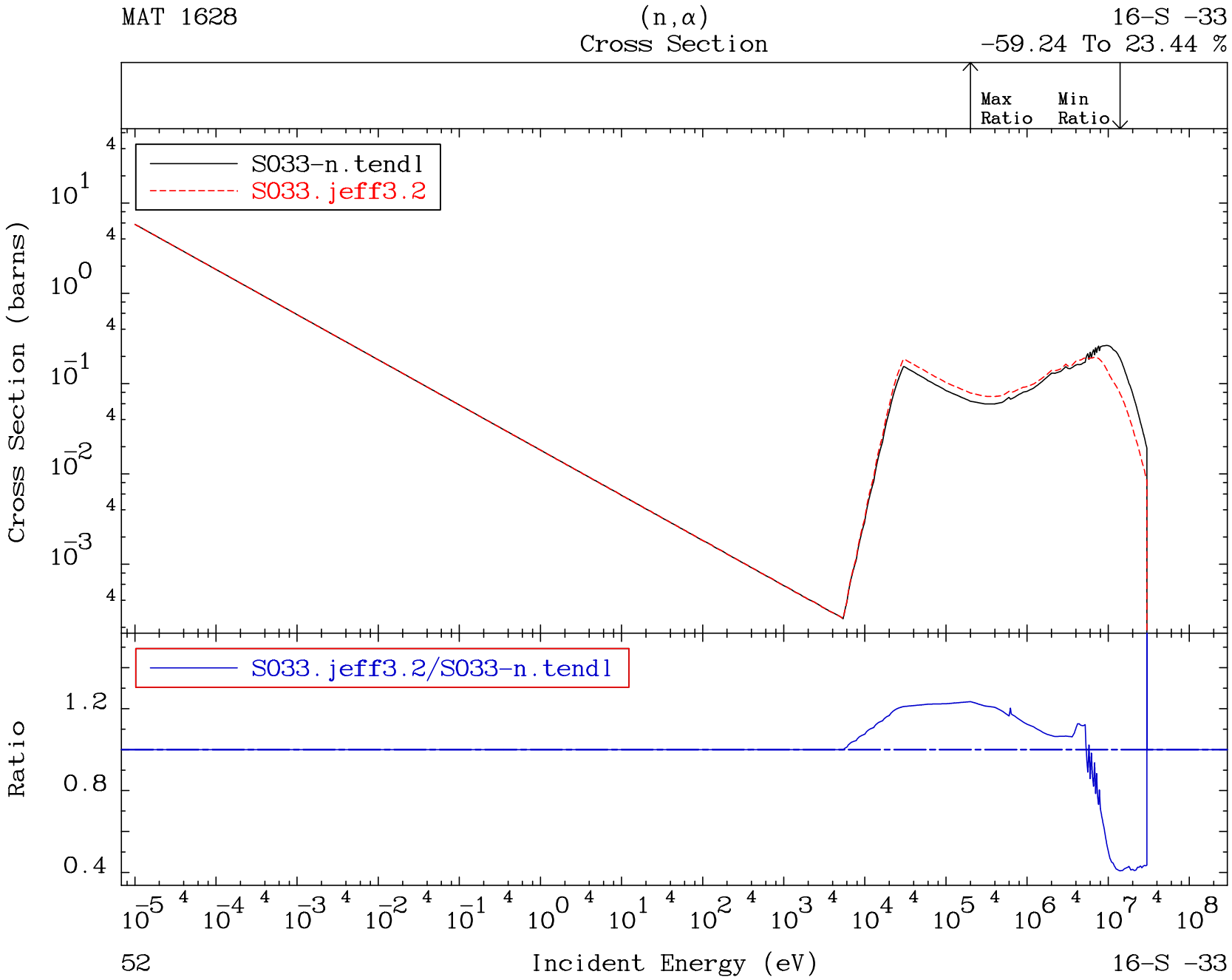

MAT 1628
(n,γ)
Cross Section
16-S -33
-99.99 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl
S033.jeff3.2
Cross Section (barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
47
16-S -33

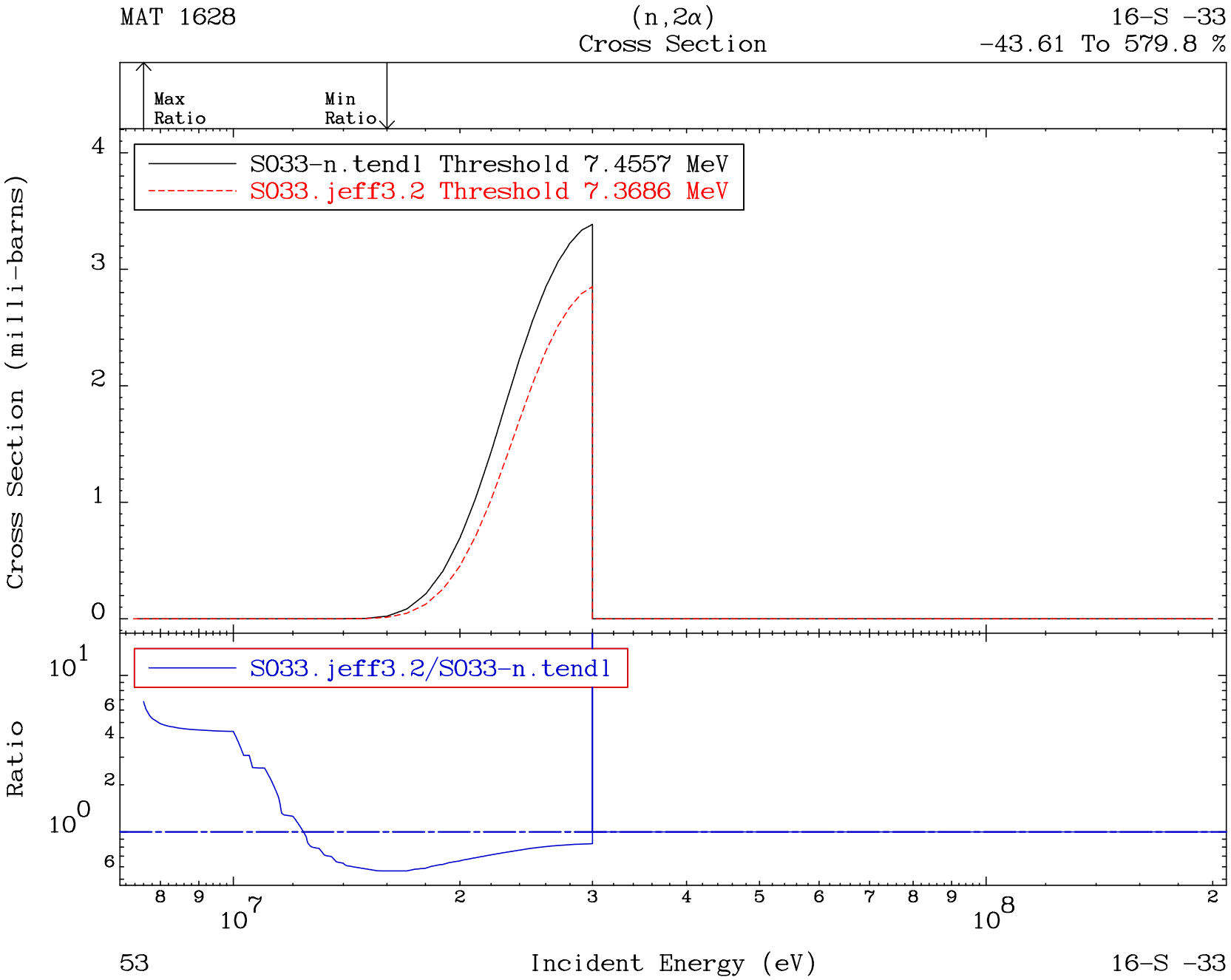

MAT 1628
(n,p)
Cross Section
16-S -33
-20.67 To 9999. %
Max Ratio
Min Ratio
S033-n.tendl
S033.jeff3.2
Cross Section (barns)
S033.jeff3.2/S033-n.tendl
Ratio
48
Incident Energy (eV)
16-S -33

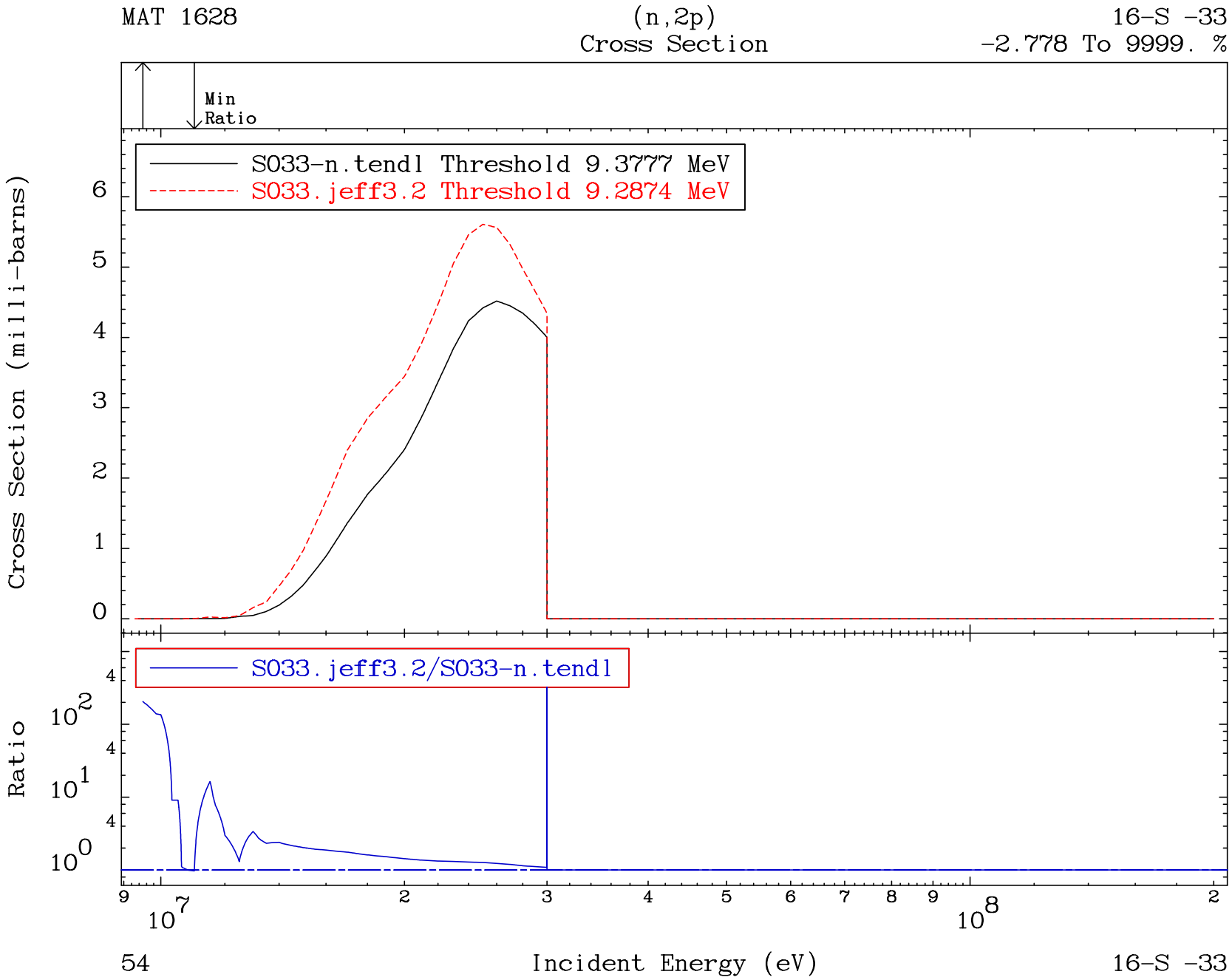

MAT 1628
(n,d)
Cross Section
16-S -33
0.000 To 3697. %
Max Ratio
Min Ratio
S033-n.tendl Threshold 7.6573 MeV
S033.jeff3.2 Threshold 7.5699 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
S033.jeff3.2/S033-n.tendl
Ratio
10^1
4
10^0
4
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
49
Incident Energy (eV)
16-S -33

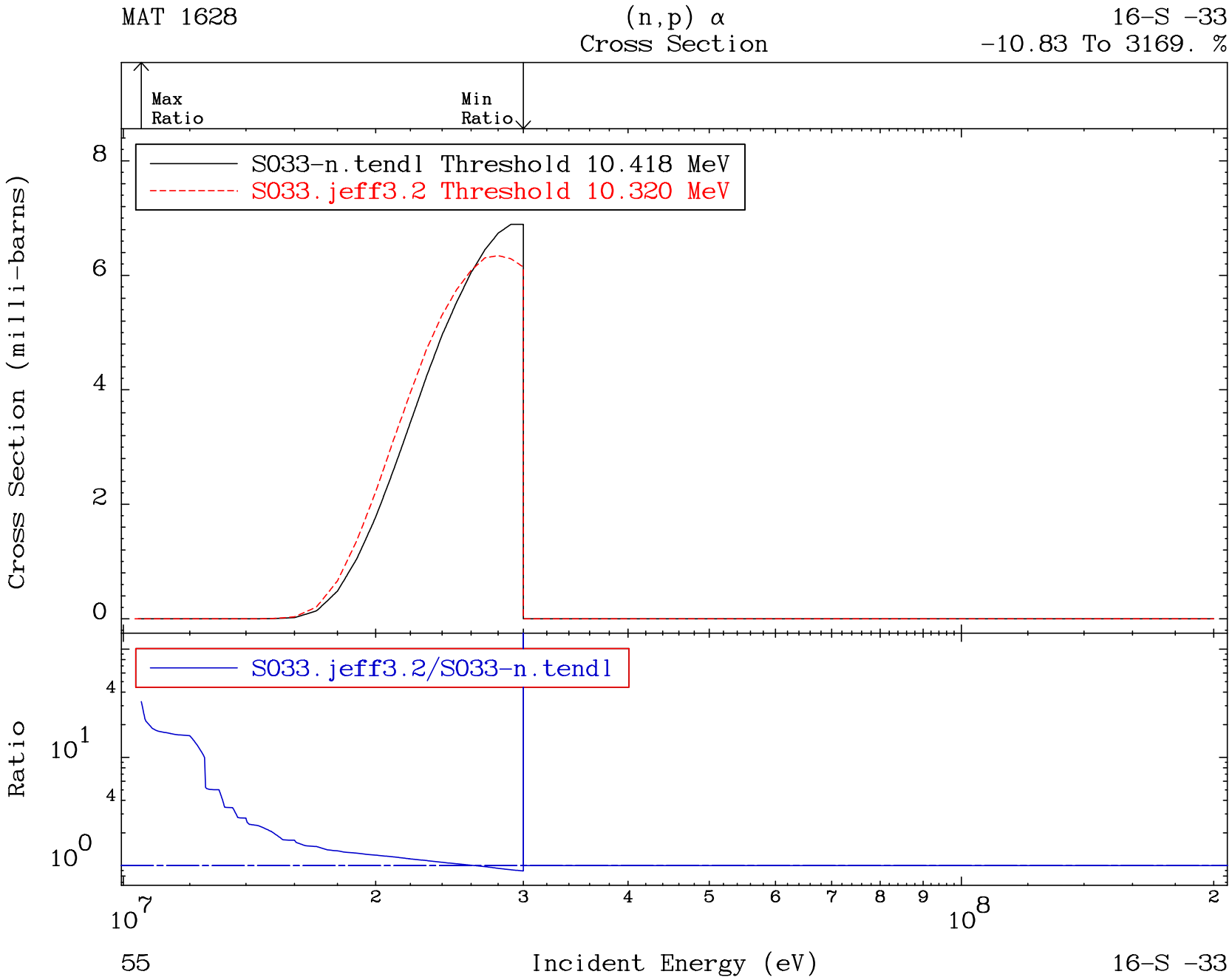

MAT 1628
(n,t)
Cross Section
16-S -33
-64.39 To 237.1 %
Max Ratio
Min Ratio
S033-n.tendl Threshold 9.3318 MeV
S033.jeff3.2 Threshold 9.2996 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
16
S033.jeff3.2/S033-n.tendl
Ratio
1.0
2.0
3.0
4.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
50
Incident Energy (eV)
16-S -33

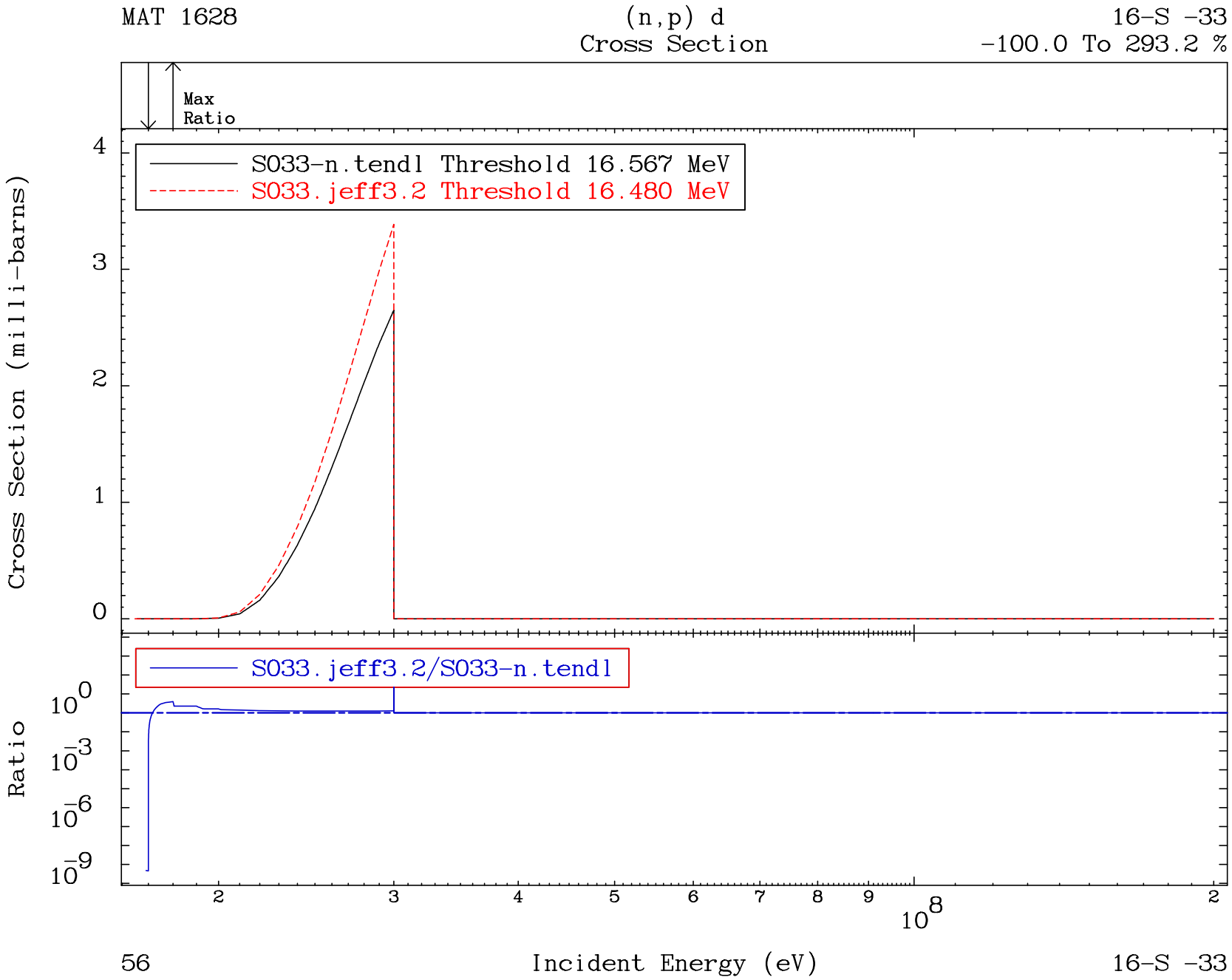

MAT 1628
(n,He-3)
Cross Section
16-S -33
-84.18 To 9999. %
Max Ratio
Min Ratio
S033-n.tendl Threshold 10.905 MeV
S033.jeff3.2 Threshold 10.818 MeV
Cross Section (milli-barns)
0
2
4
6
8
S033.jeff3.2/S033-n.tendl
Ratio
10^{2}
10^{1}
10^{0}
10^{-1}
2
3
4
5
6
7
8
9
10^{8}
2
51
Incident Energy (eV)
16-S -33

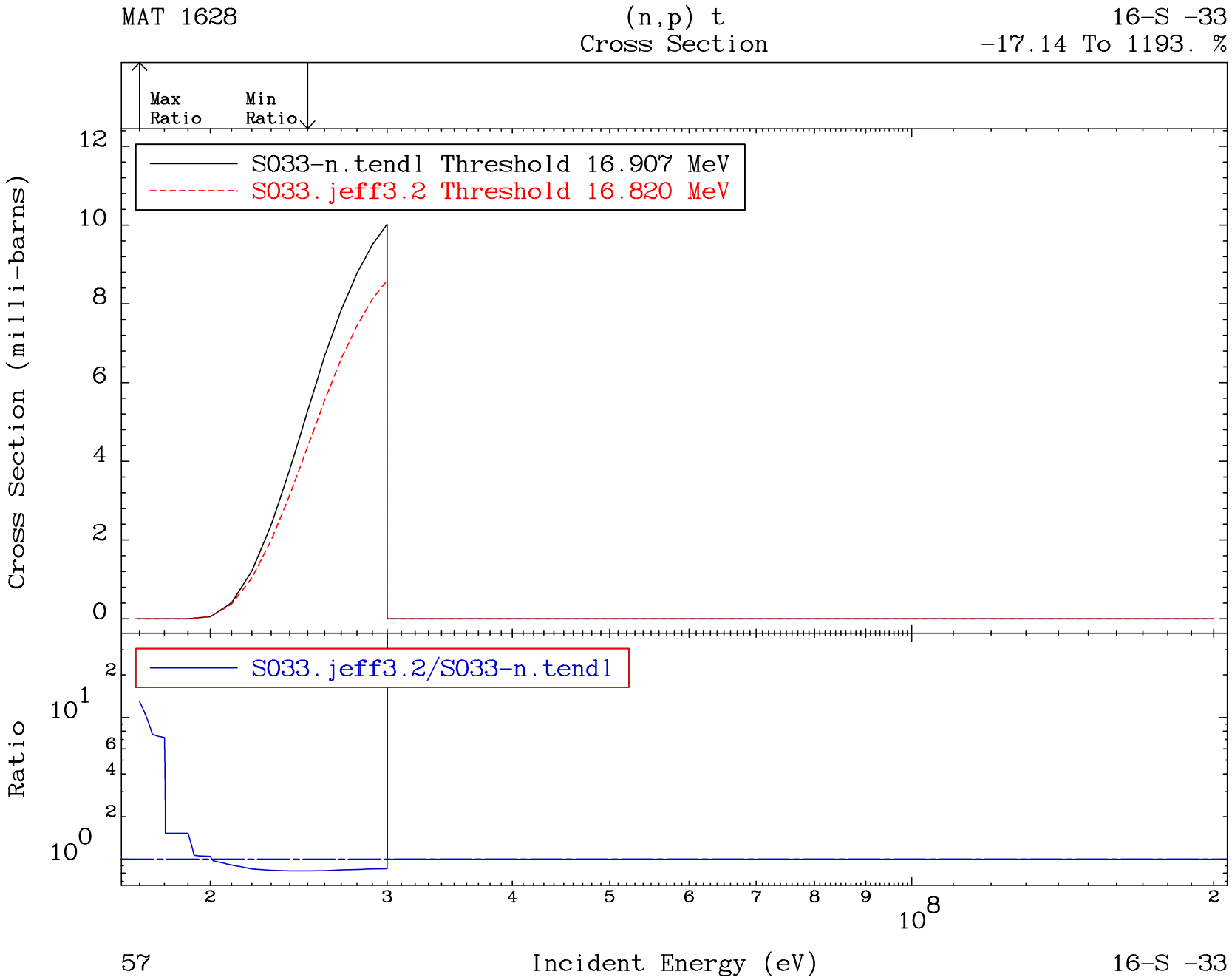

MAT 1628
(n,α)
Cross Section
16-S -33
-59.24 To 23.44 %
Max Ratio
Min Ratio
S033-n.tendl
S033.jeff3.2
Cross Section (barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
52
16-S -33

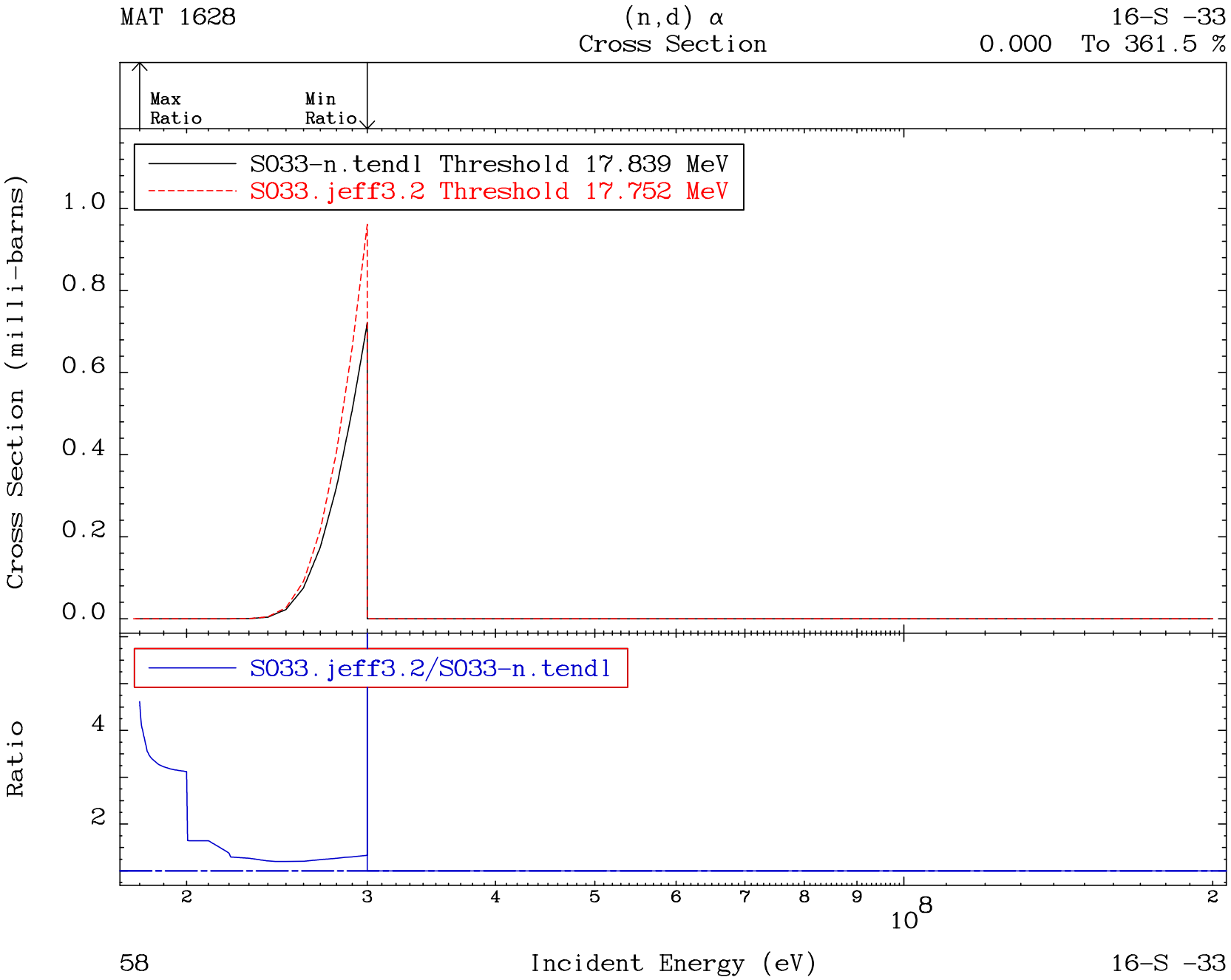

MAT 1628
(n,2α)
Cross Section
16-S -33
-43.61 To 579.8 %
Max Ratio
Min Ratio
S033-n.tendl Threshold 7.4557 MeV
S033.jeff3.2 Threshold 7.3686 MeV
Cross Section (milli-barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
53
16-S -33

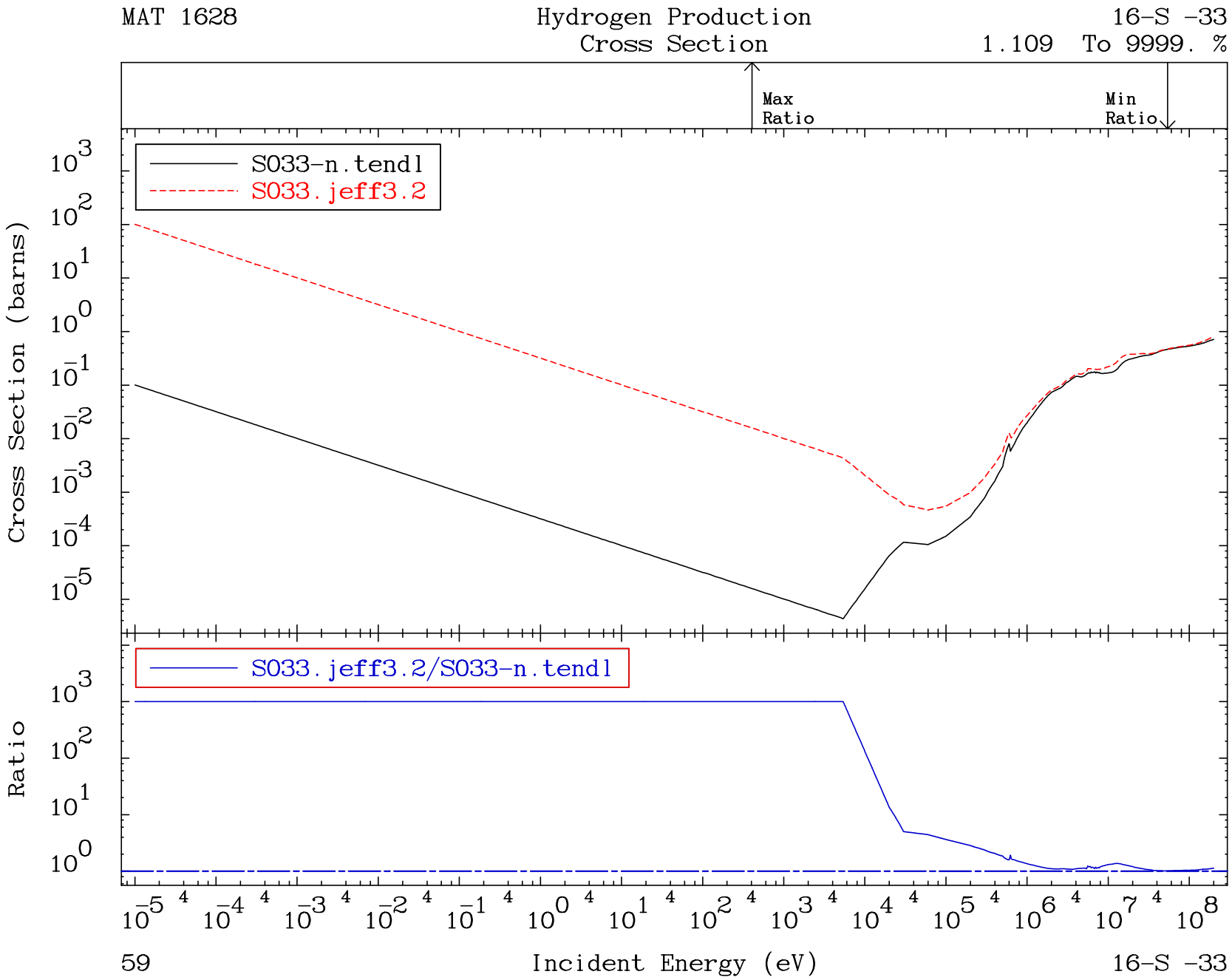

MAT 1628
(n,2p)
Cross Section
16-S -33
-2.778 To 9999. %
Min
Ratio
S033-n.tendl Threshold 9.3777 MeV
S033.jeff3.2 Threshold 9.2874 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
S033.jeff3.2/S033-n.tendl
Ratio
10^2
10^1
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
54
Incident Energy (eV)
16-S -33

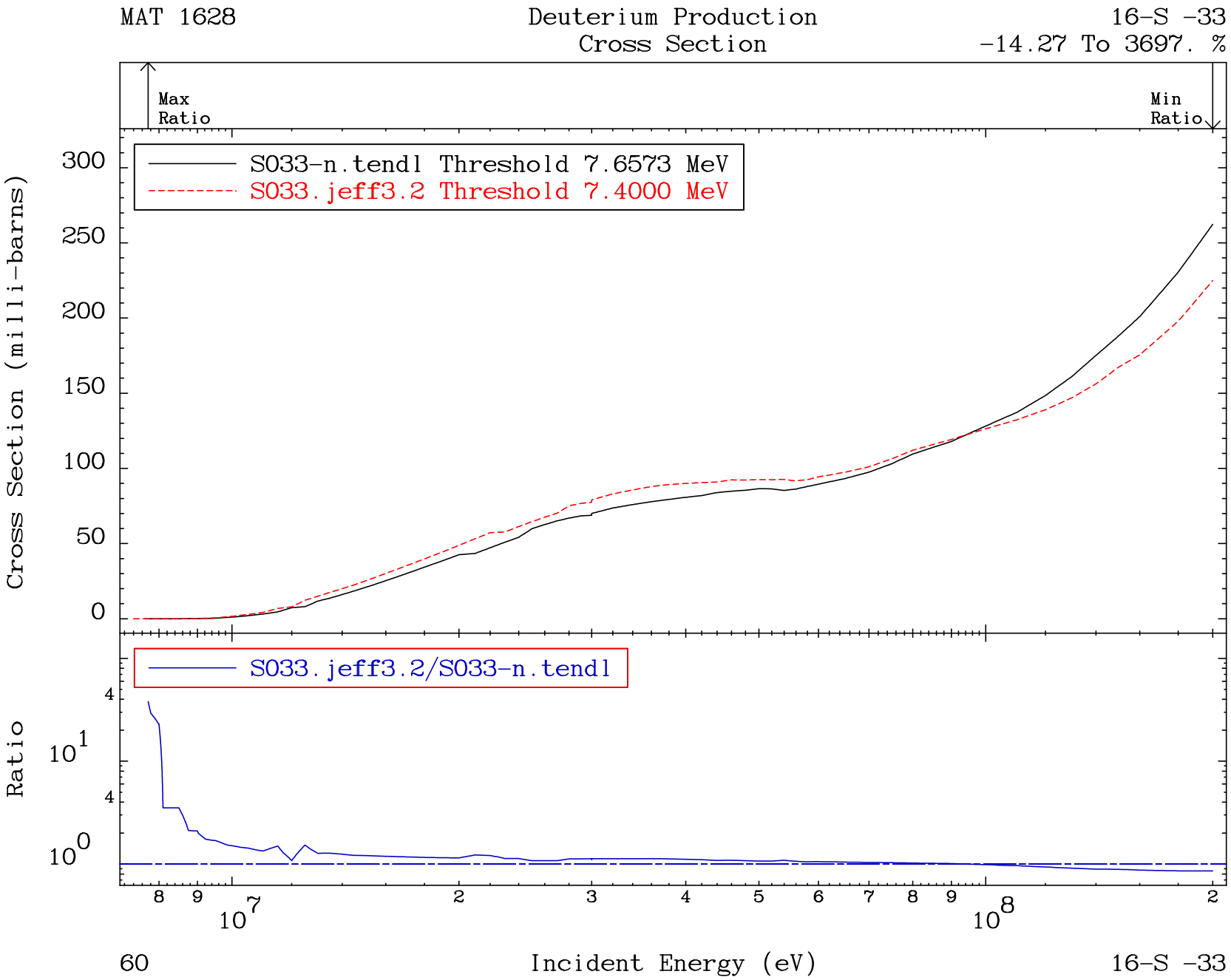

MAT 1628
(n,p) α
Cross Section
16-S -33
-10.83 To 3169. %
Max Ratio
Min Ratio
S033-n.tendl Threshold 10.418 MeV
S033.jeff3.2 Threshold 10.320 MeV
Cross Section (milli-barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
55
16-S -33

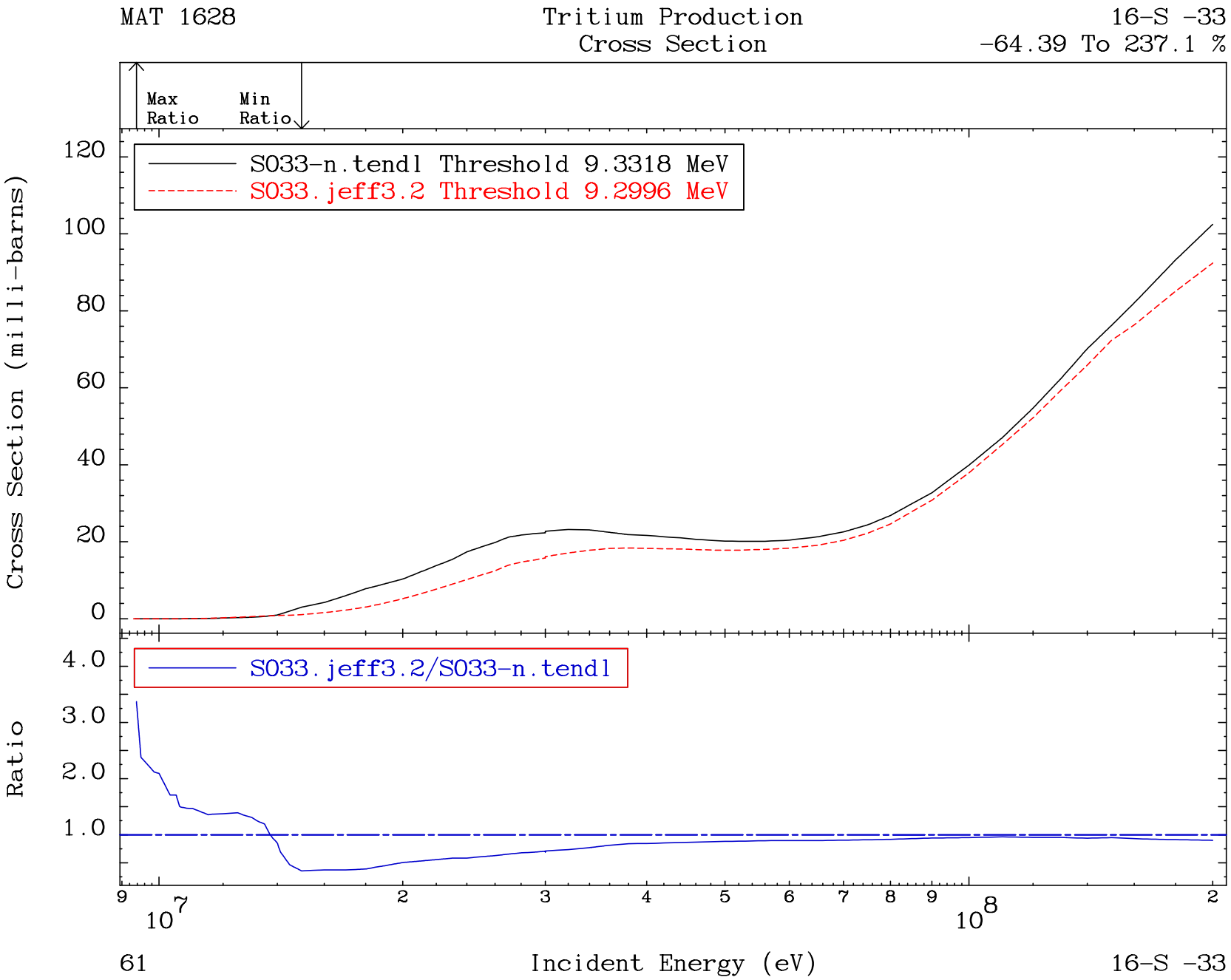

MAT 1628
(n,p) d
Cross Section
16-S -33
-100.0 To 293.2 %
Max
Ratio
S033-n.tendl Threshold 16.567 MeV
S033.jeff3.2 Threshold 16.480 MeV
Cross Section (milli-barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
56
16-S -33

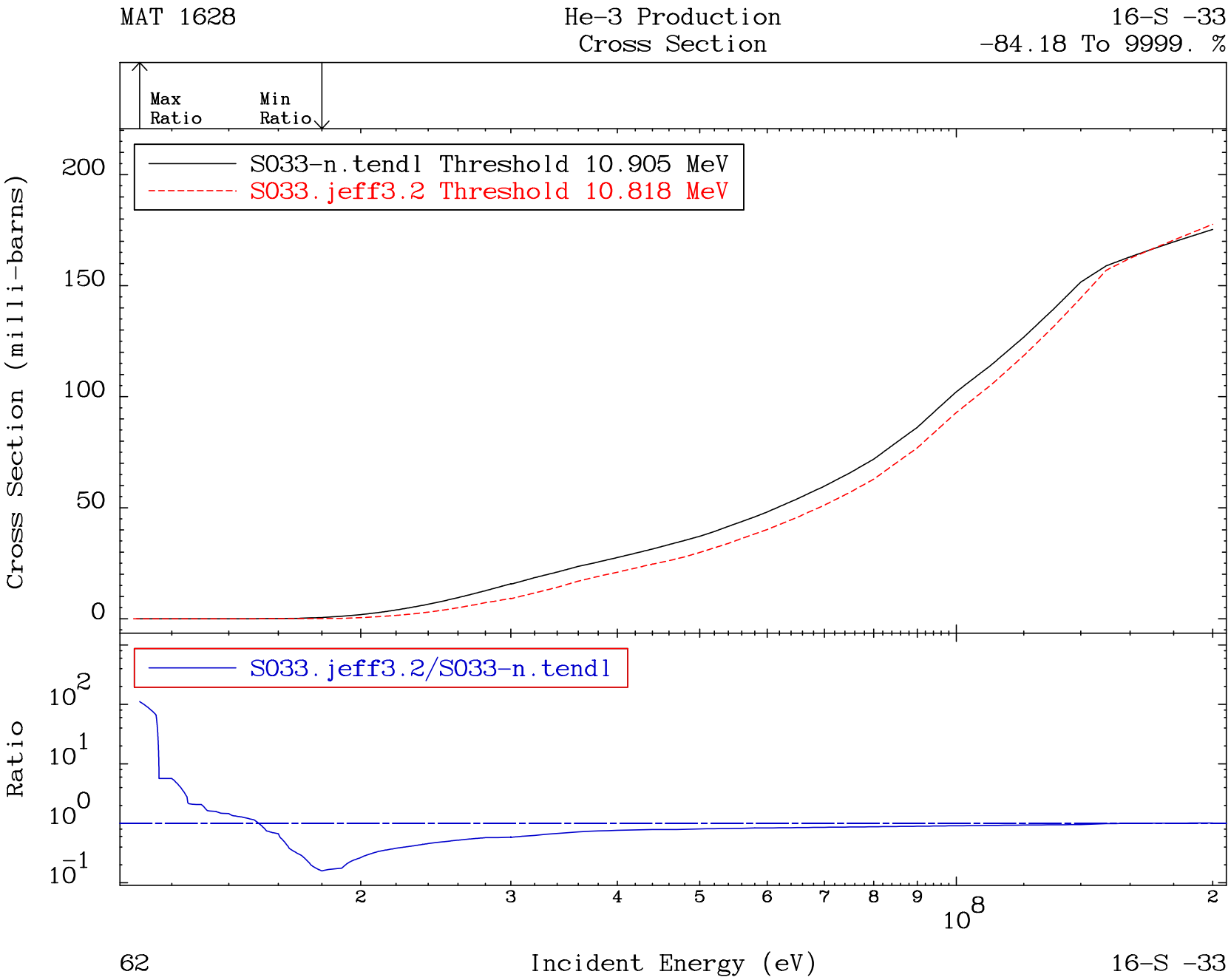

MAT 1628
(n,p) t
Cross Section
16-S -33
-17.14 To 1193. %
Max Ratio
Min Ratio
S033-n.tendl Threshold 16.907 MeV
S033.jeff3.2 Threshold 16.820 MeV
Cross Section (milli-barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
57
16-S -33

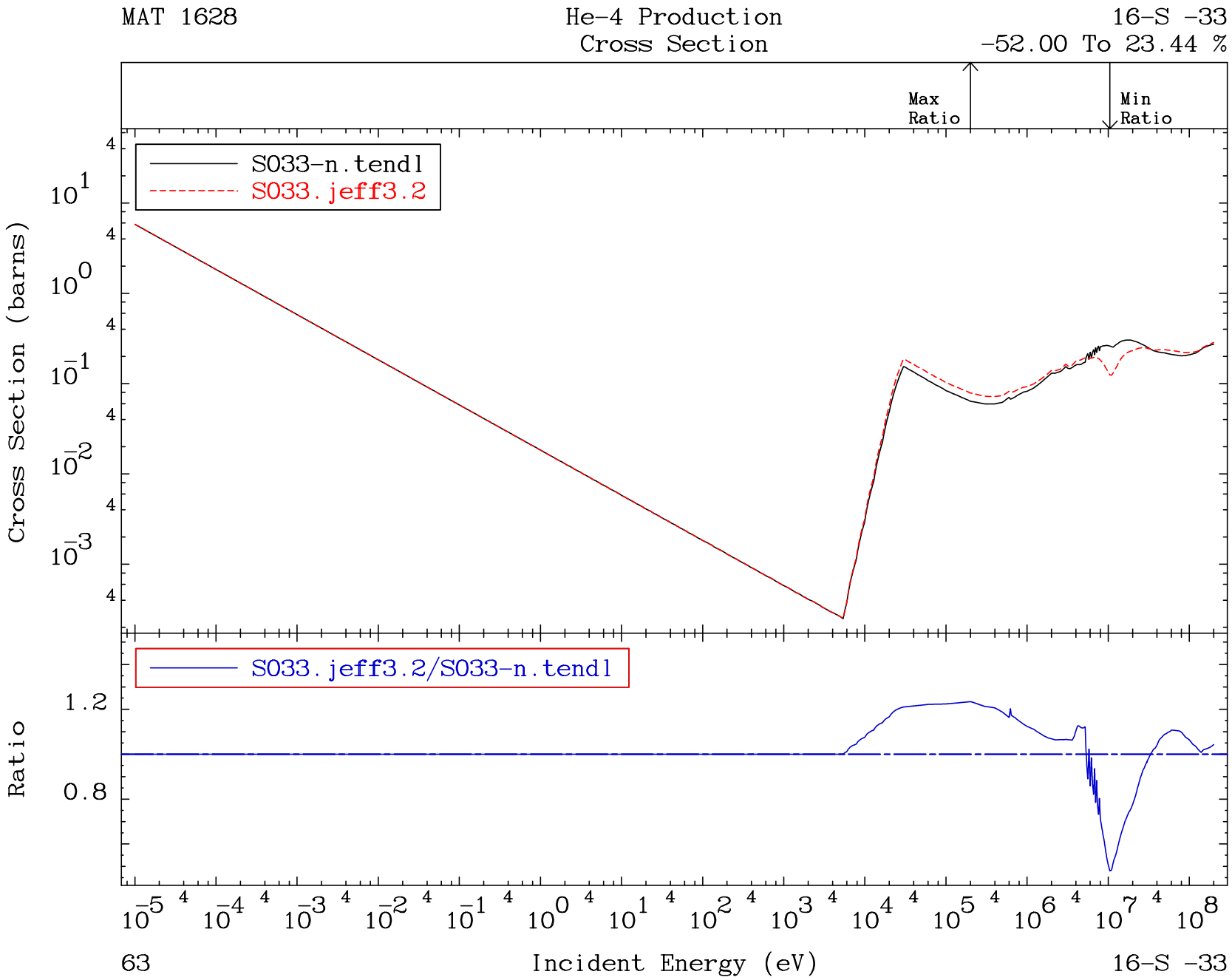

MAT 1628
(n,d) α
Cross Section
16-S -33
0.000 To 361.5 %
Max Ratio
Min Ratio
S033-n.tendl Threshold 17.839 MeV
S033.jeff3.2 Threshold 17.752 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
S033.jeff3.2/S033-n.tendl
Ratio
4
2
2
3
4
5
6
7
8
9
10^8
2
58
Incident Energy (eV)
16-S -33

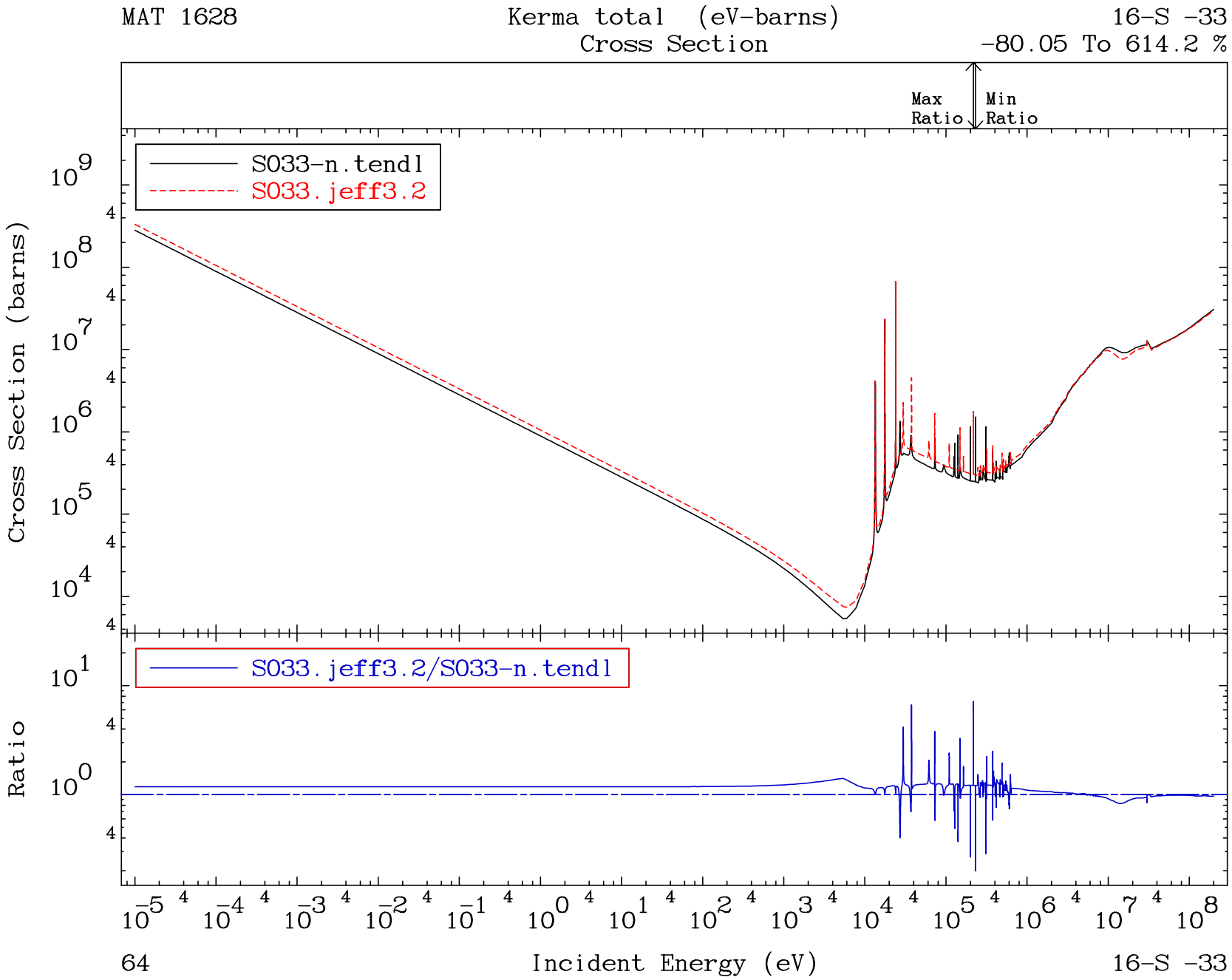

MAT 1628
Hydrogen Production
Cross Section
16-S -33
1.109 To 9999. %
Max Ratio
Min Ratio
S033-n.tendl
S033.jeff3.2
Cross Section (barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
59
16-S -33

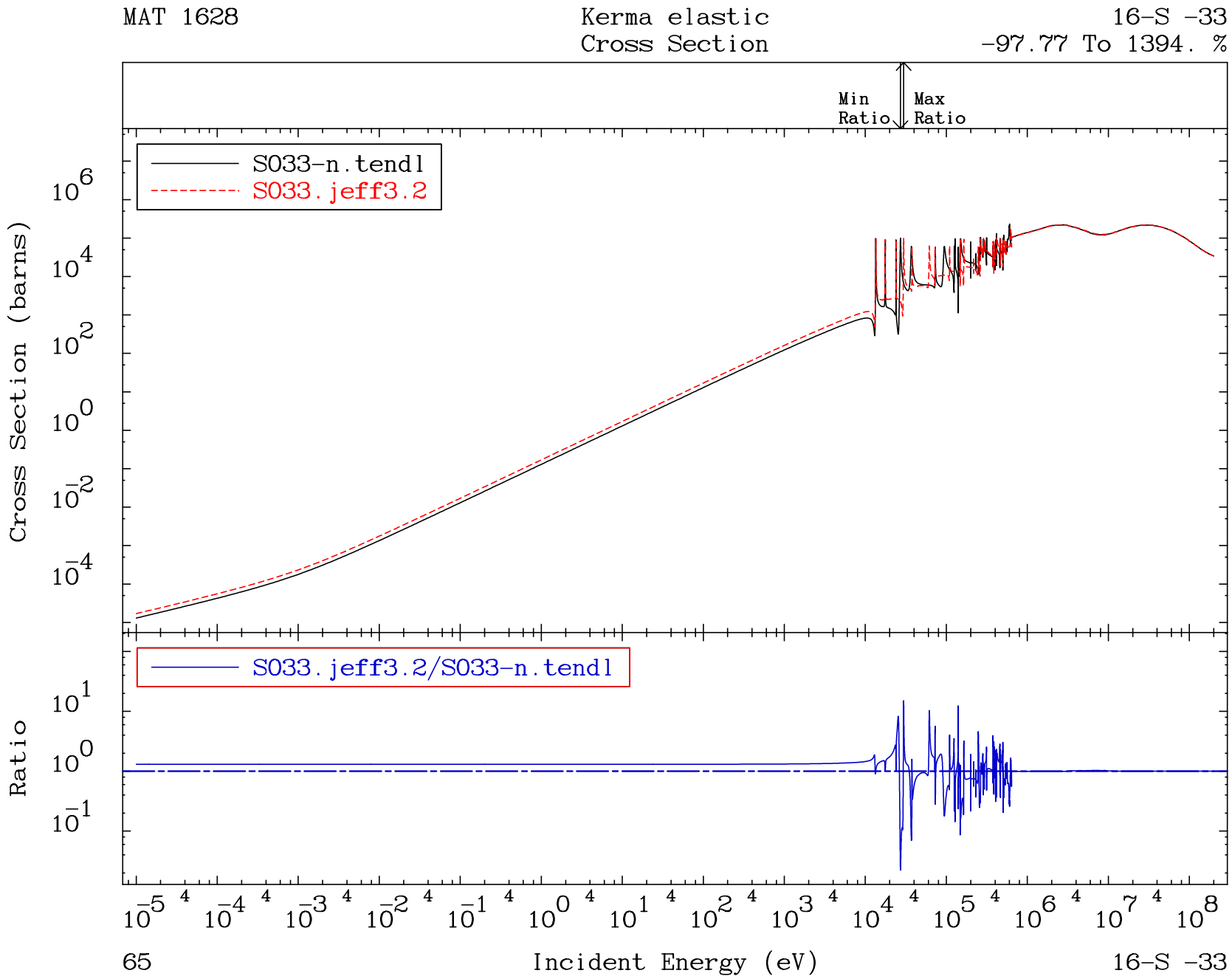

MAT 1628
Deuterium Production
Cross Section
16-S -33
-14.27 To 3697. %
Max Ratio
Min Ratio
S033-n.tendl Threshold 7.6573 MeV
S033.jeff3.2 Threshold 7.4000 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
S033.jeff3.2/S033-n.tendl
Ratio
10^1
10^0
4
4
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
60
Incident Energy (eV)
16-S -33

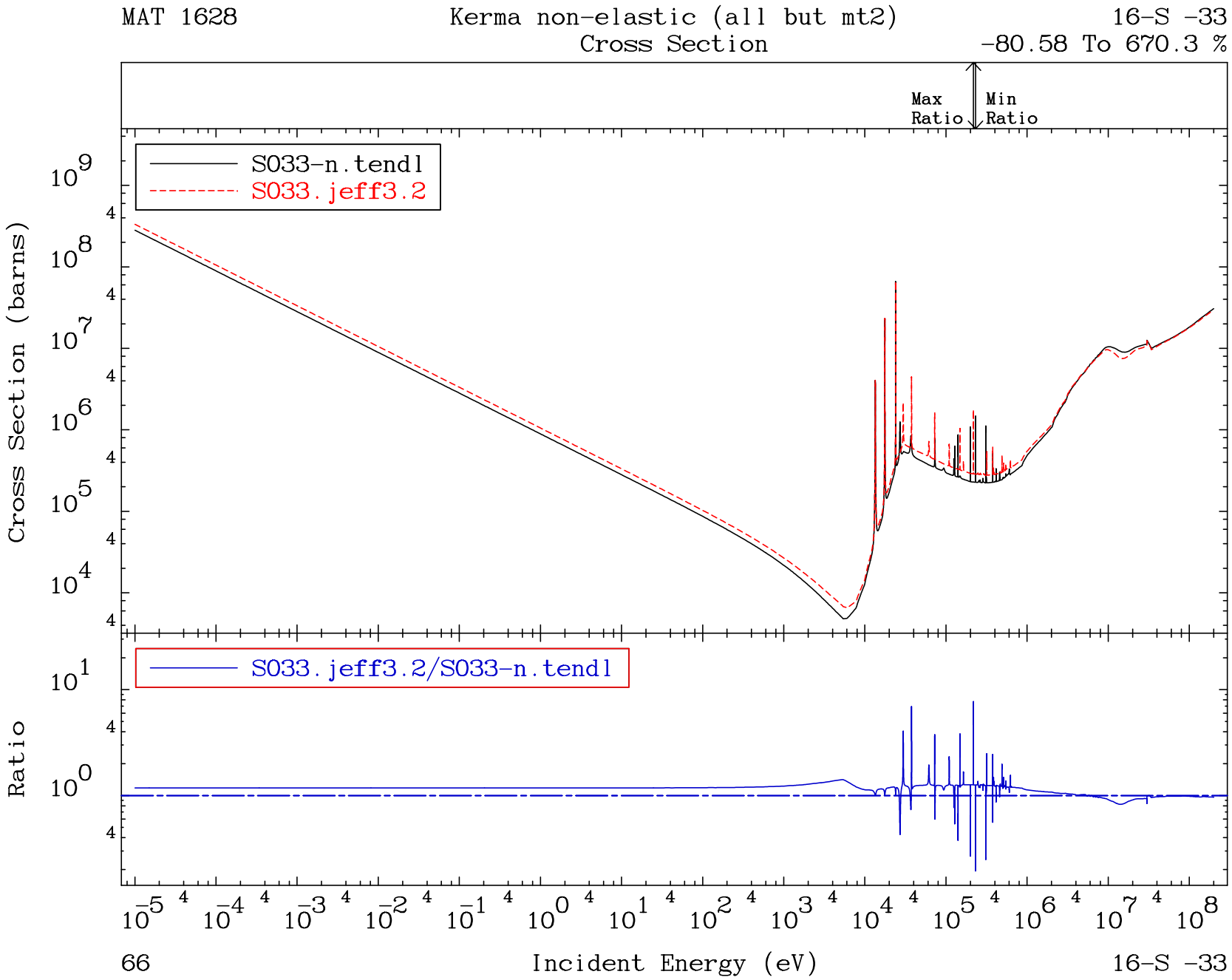

MAT 1628
Tritium Production
Cross Section
16-S -33
-64.39 To 237.1 %
Max Ratio
Min Ratio
S033-n.tendl Threshold 9.3318 MeV
S033.jeff3.2 Threshold 9.2996 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
S033.jeff3.2/S033-n.tendl
Ratio
4.0
3.0
2.0
1.0
9
2
3
4
5
6
7
8
9
2
10^7
10^8
61
Incident Energy (eV)
16-S -33

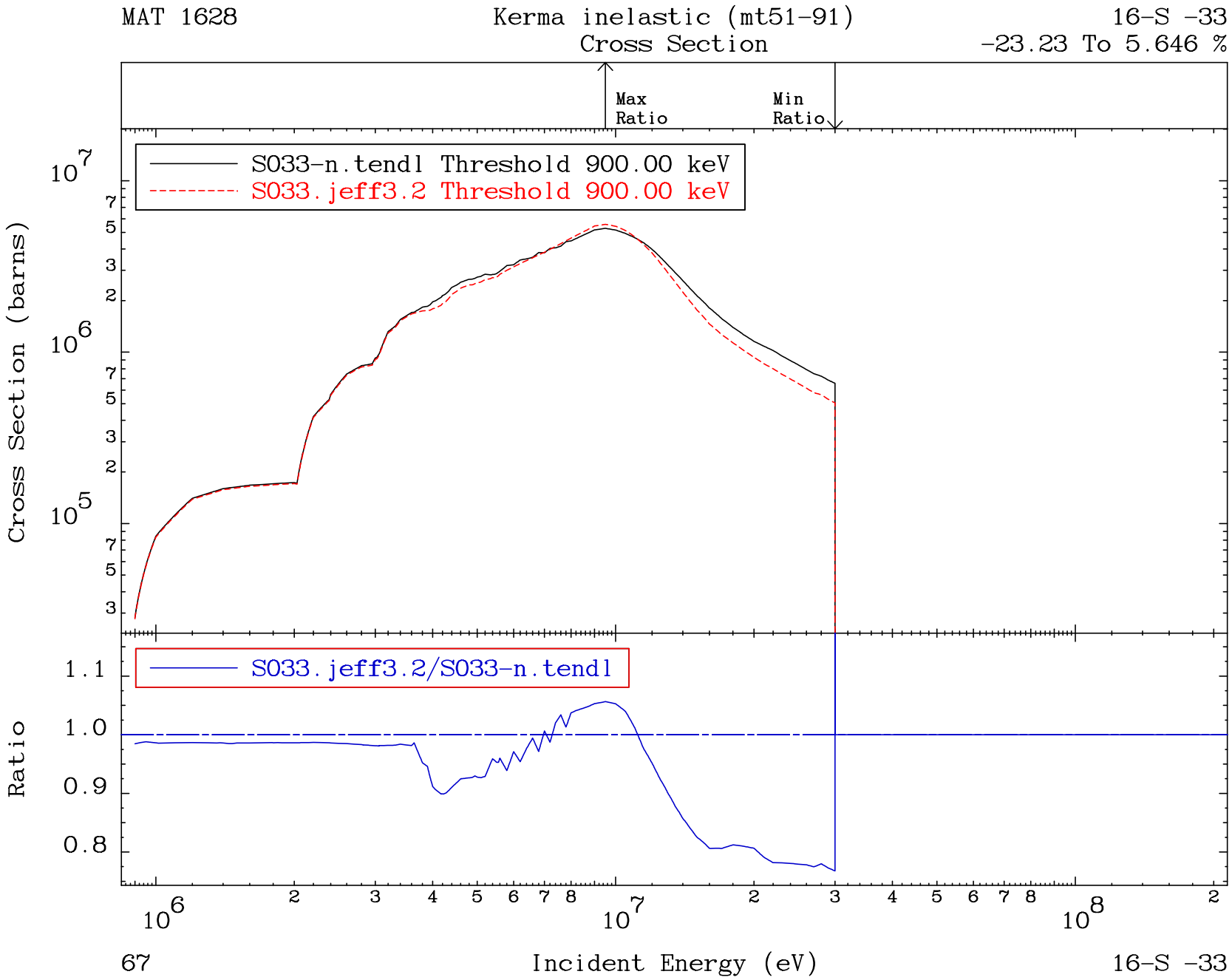

MAT 1628
He-3 Production
Cross Section
16-S -33
-84.18 To 9999. %
Max Ratio
Min Ratio
S033-n.tendl Threshold 10.905 MeV
S033.jeff3.2 Threshold 10.818 MeV
Cross Section (milli-barns)
200
150
100
50
0
S033.jeff3.2/S033-n.tendl
Ratio
10^2
10^1
10^0
10^-1
2
3
4
5
6
7
8
9
10^8
2
62
Incident Energy (eV)
16-S -33

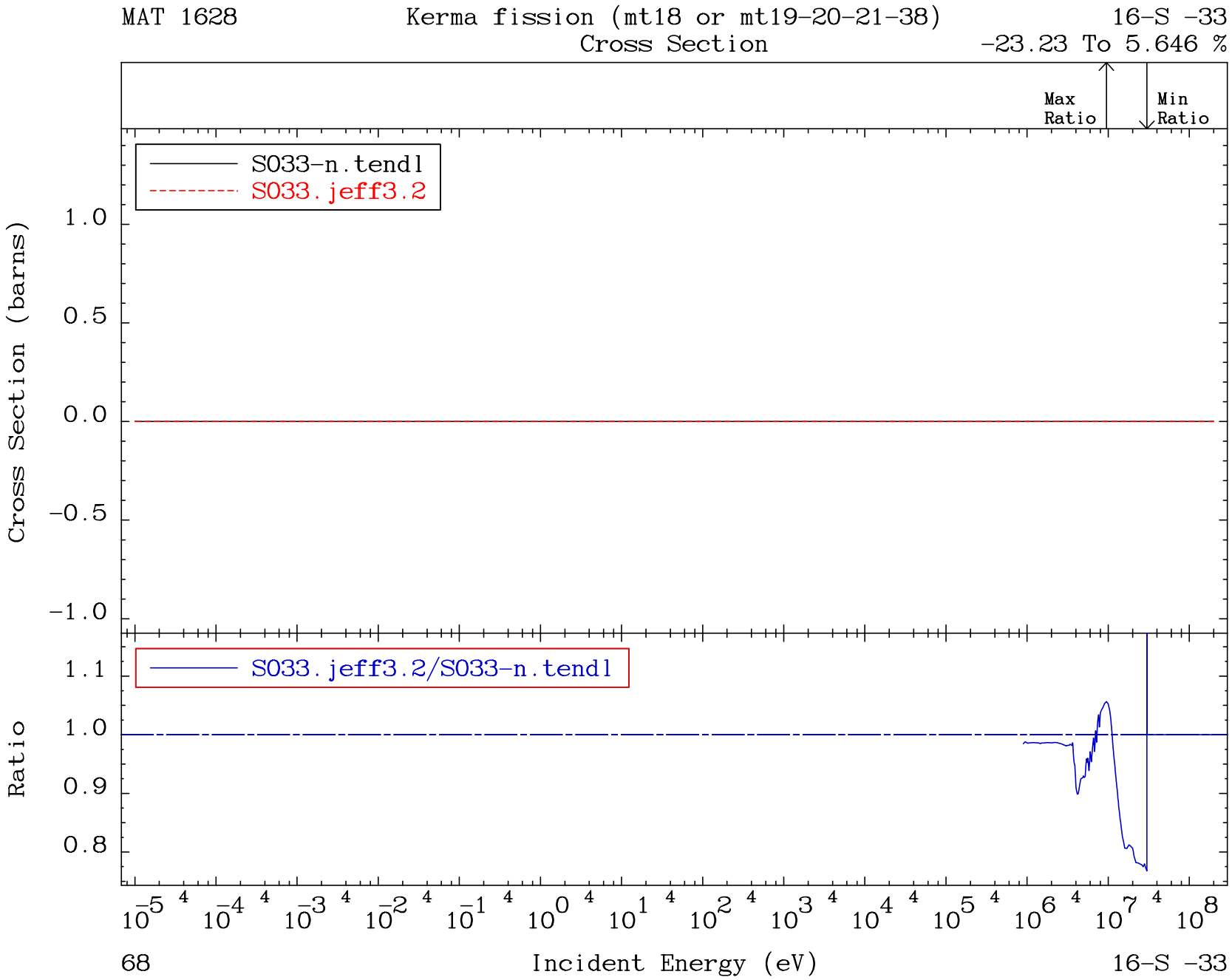

MAT 1628
He-4 Production
Cross Section
16-S -33
-52.00 To 23.44 %
Max Ratio
Min Ratio
S033-n.tendl
S033.jeff3.2
Cross Section (barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
63
16-S -33

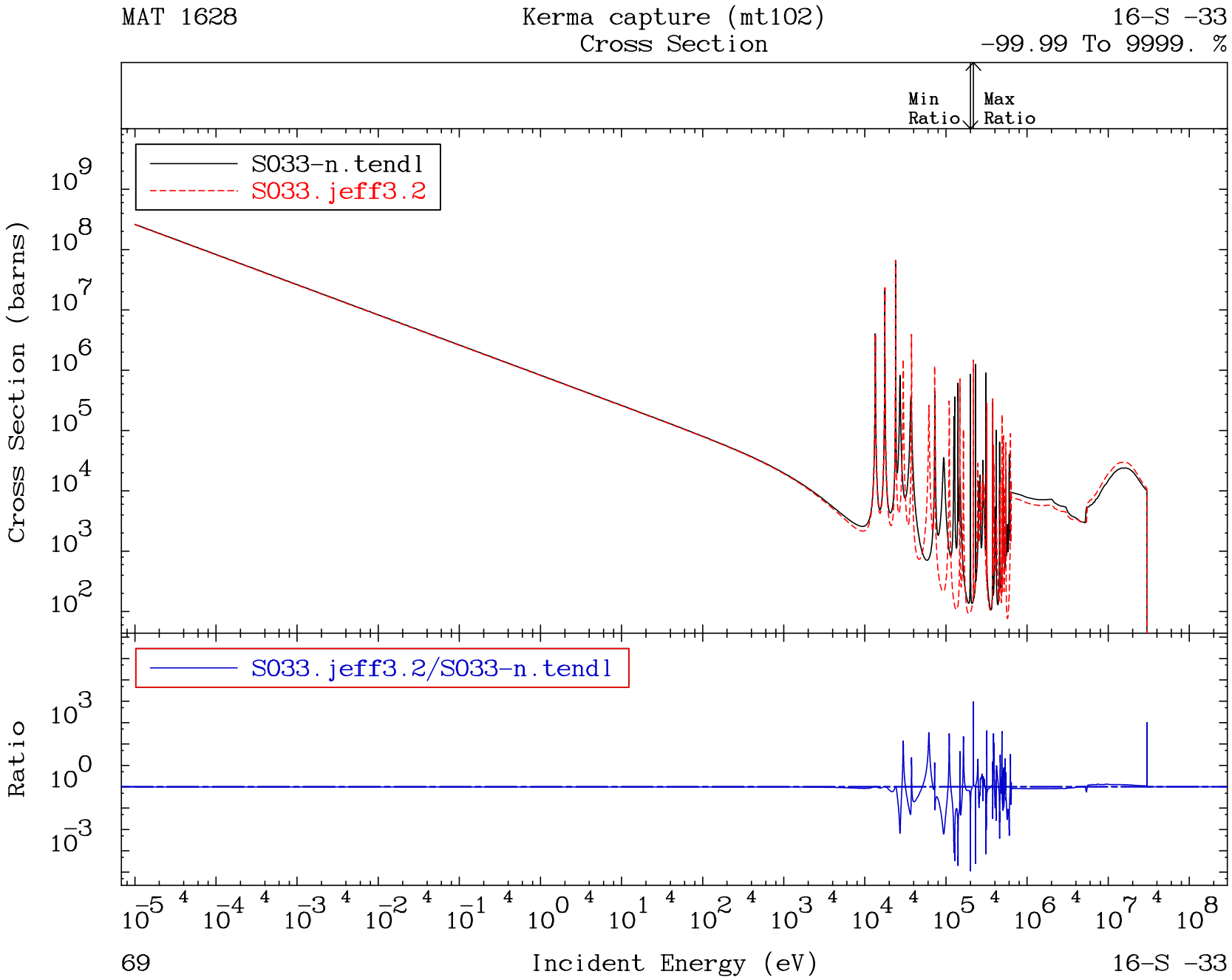

MAT 1628
Kerma total (eV-barns)
Cross Section
16-S -33
-80.05 To 614.2 %
Max Ratio
Min Ratio
S033-n.tendl
S033.jeff3.2
Cross Section (barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
64
16-S -33

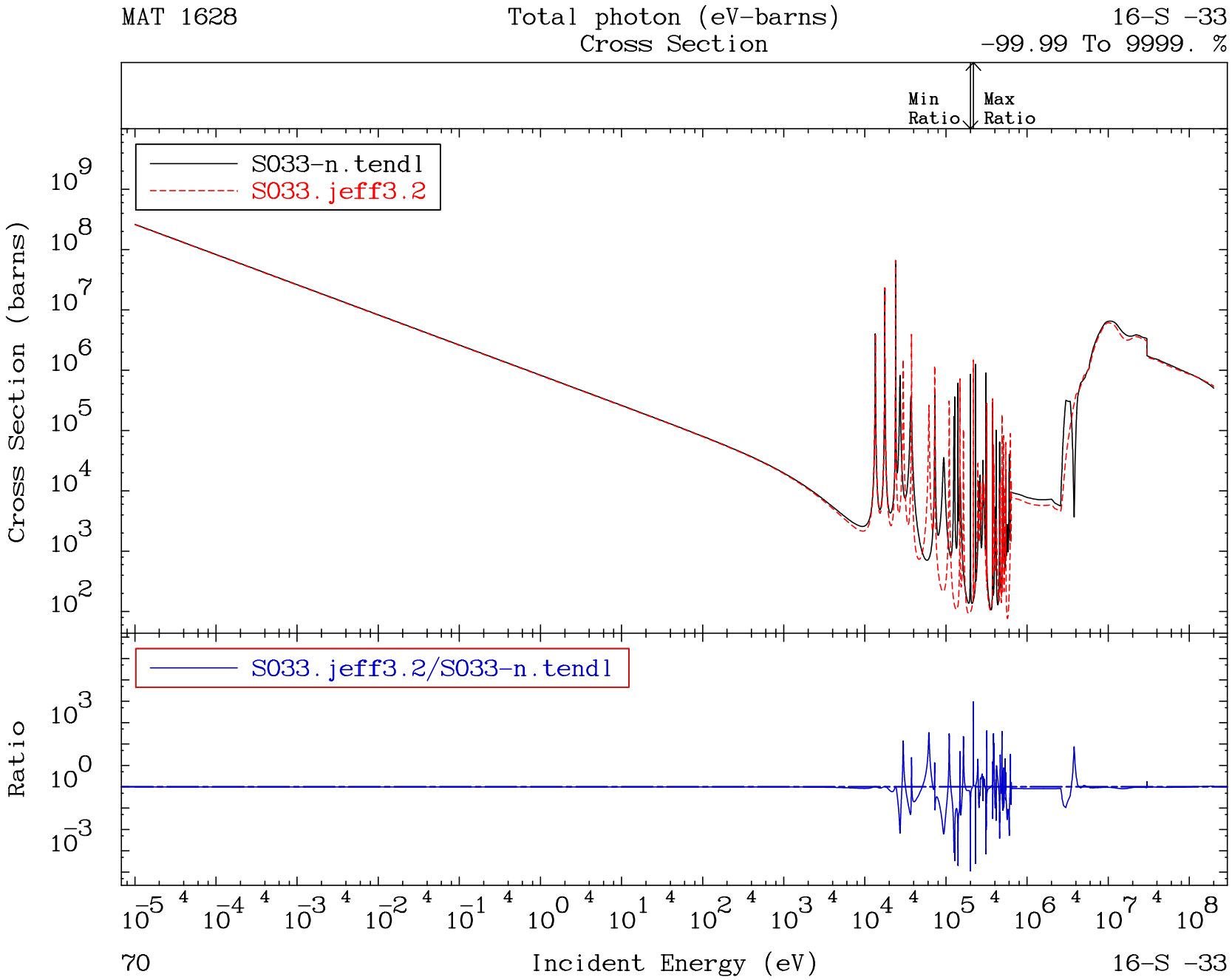

MAT 1628
Kerma elastic
Cross Section
16-S -33
-97.77 To 1394. %
Min Ratio
Max Ratio
S033-n.tendl
S033.jeff3.2
Cross Section (barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
65
16-S -33

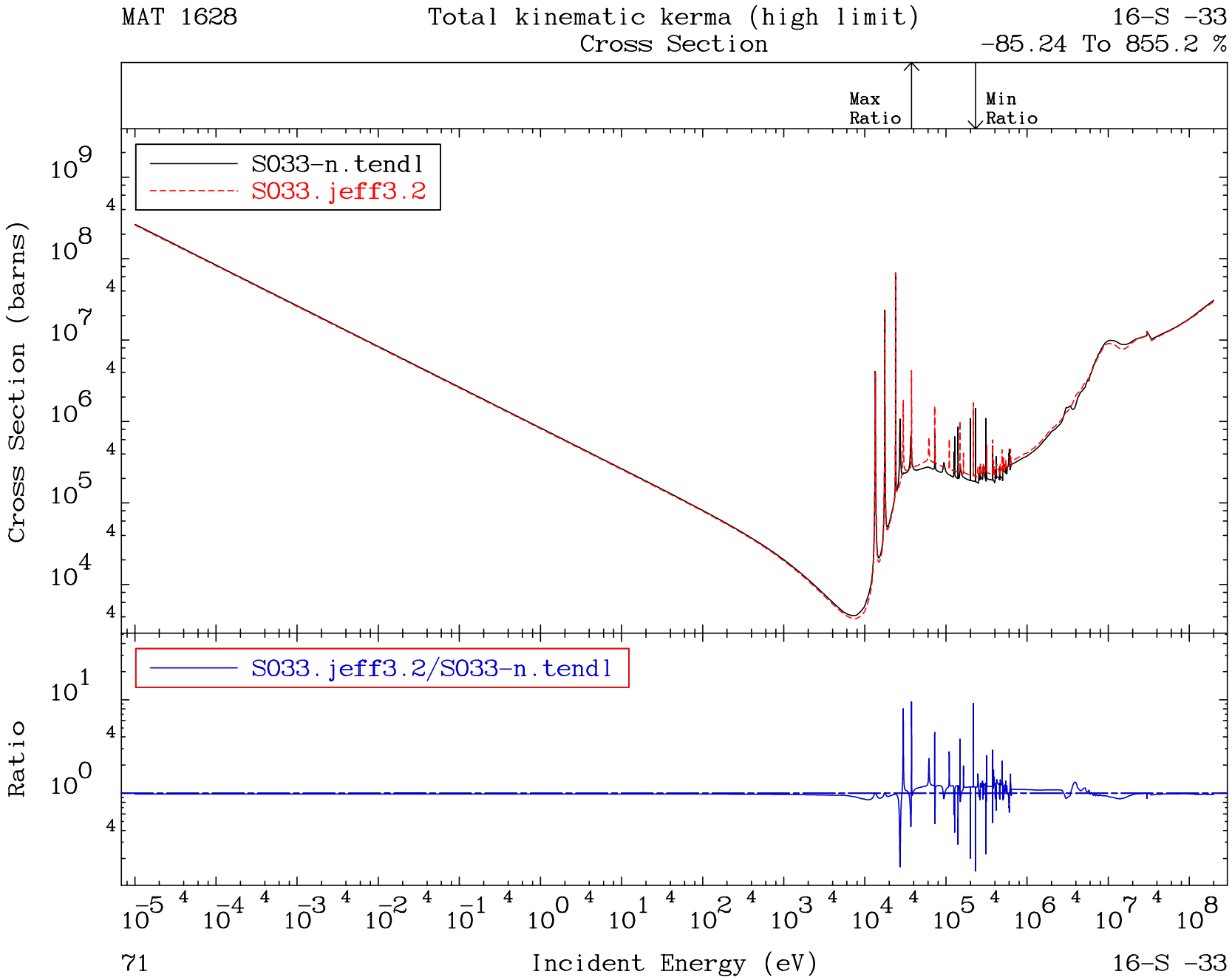

MAT 1628
Kerma non-elastic (all but mt2)
Cross Section
16-S -33
-80.58 To 670.3 %
Max Ratio
Min Ratio
S033-n.tendl
S033.jeff3.2
Cross Section (barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
66
16-S -33

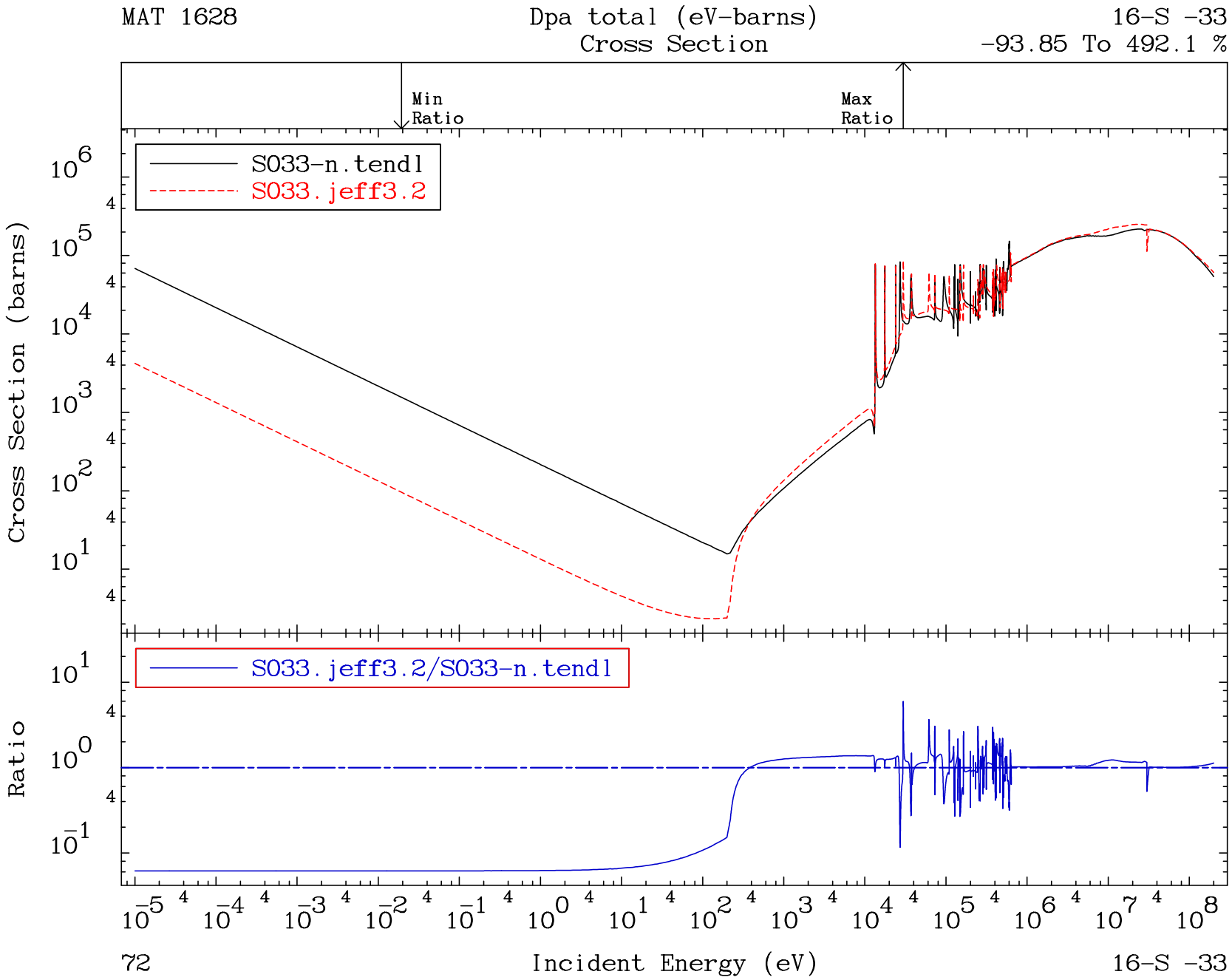

MAT 1628
Kerma inelastic (mt51-91)
Cross Section
16-S -33
-23.23 To 5.646 %
Max Ratio
Min Ratio
S033-n.tendl Threshold 900.00 keV
S033.jeff3.2 Threshold 900.00 keV
Cross Section (barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
67
16-S -33

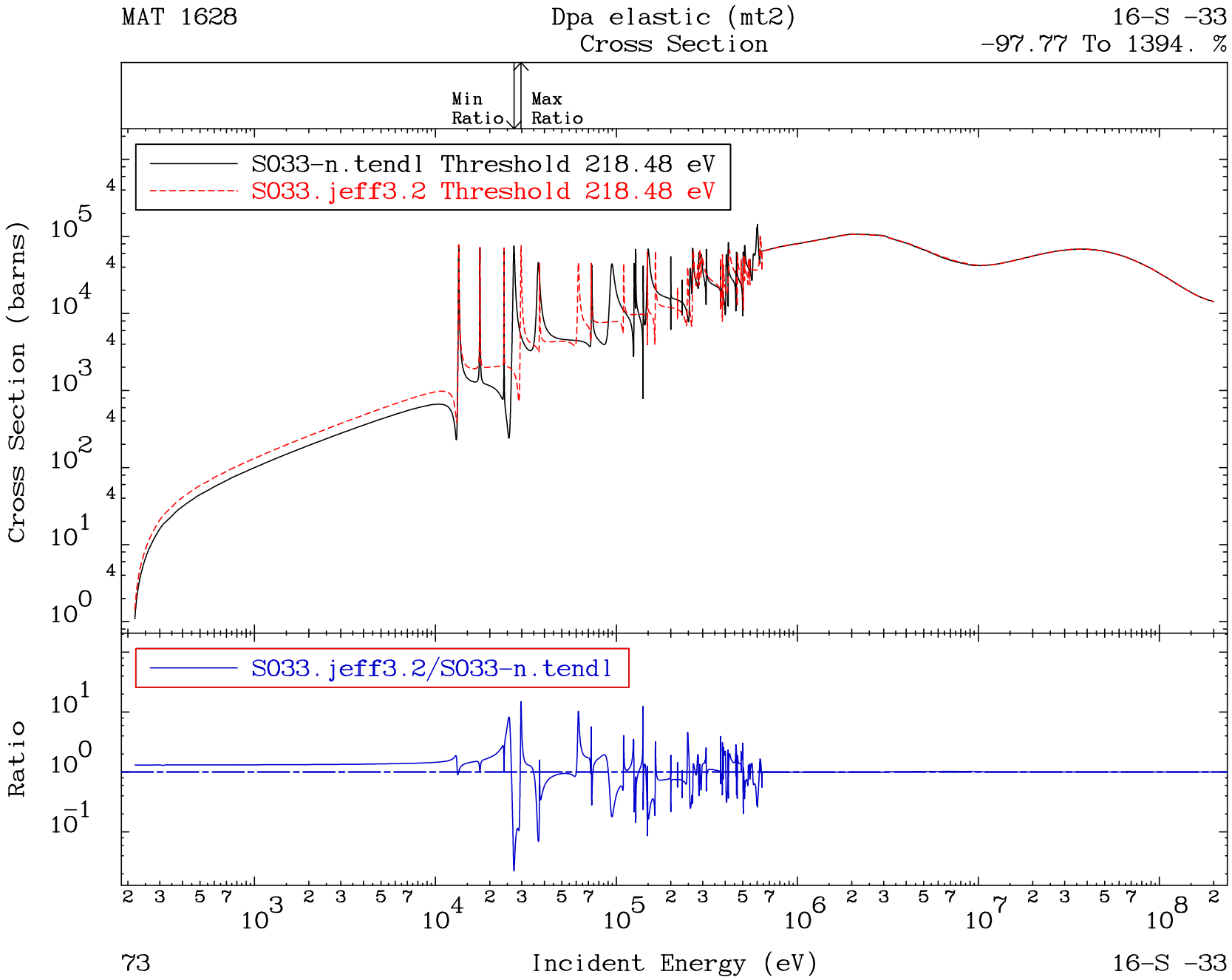

MAT 1628
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
16-S -33
-23.23 To 5.646 %
Max Ratio
Min Ratio
S033-n.tendl
S033.jeff3.2
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
S033.jeff3.2/S033-n.tendl
Ratio
1.1
1.0
0.9
0.8
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
68
Incident Energy (eV)
16-S -33

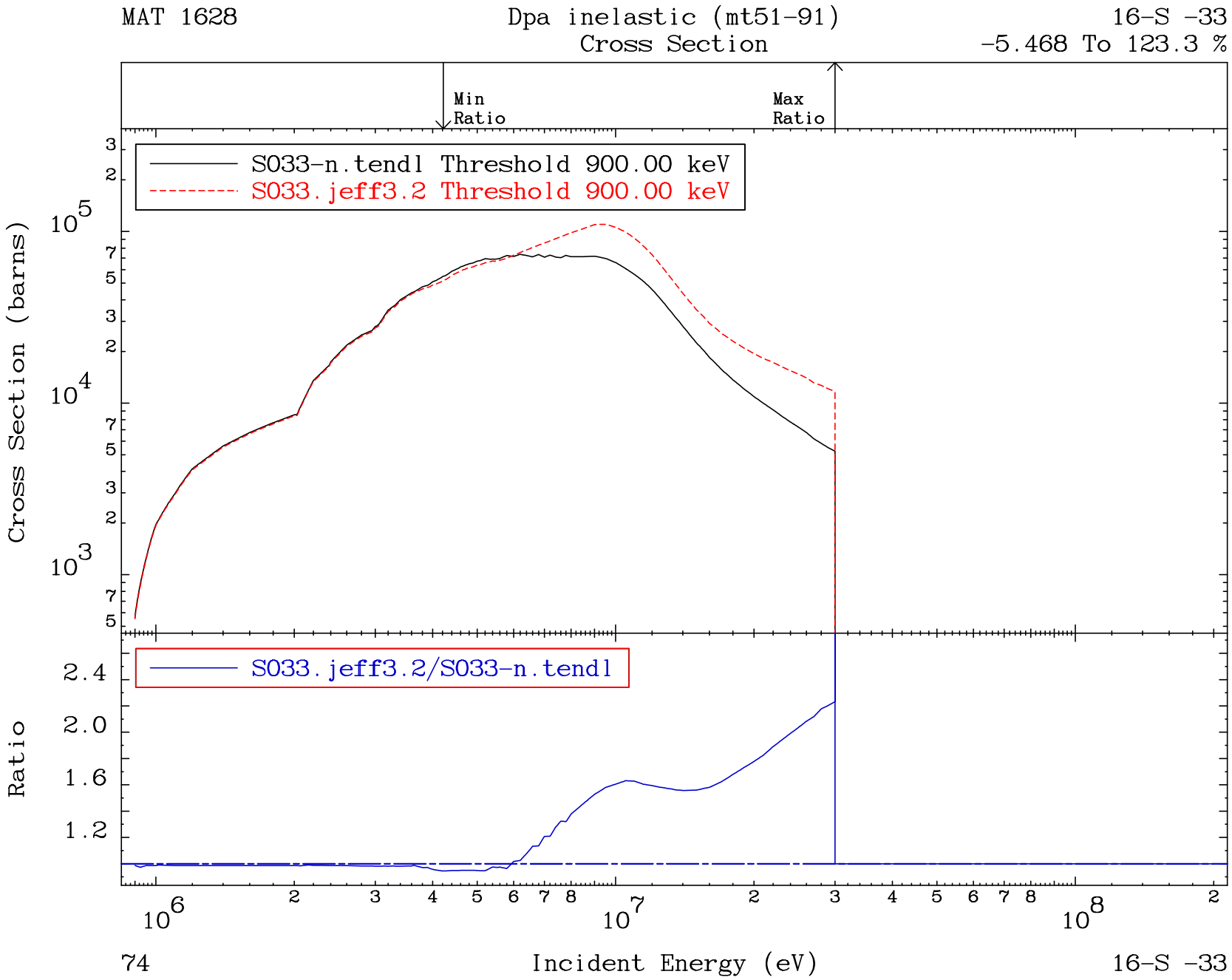

MAT 1628
Kerma capture (mt102)
Cross Section
16-S -33
-99.99 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl
S033.jeff3.2
Cross Section (barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
69
16-S -33

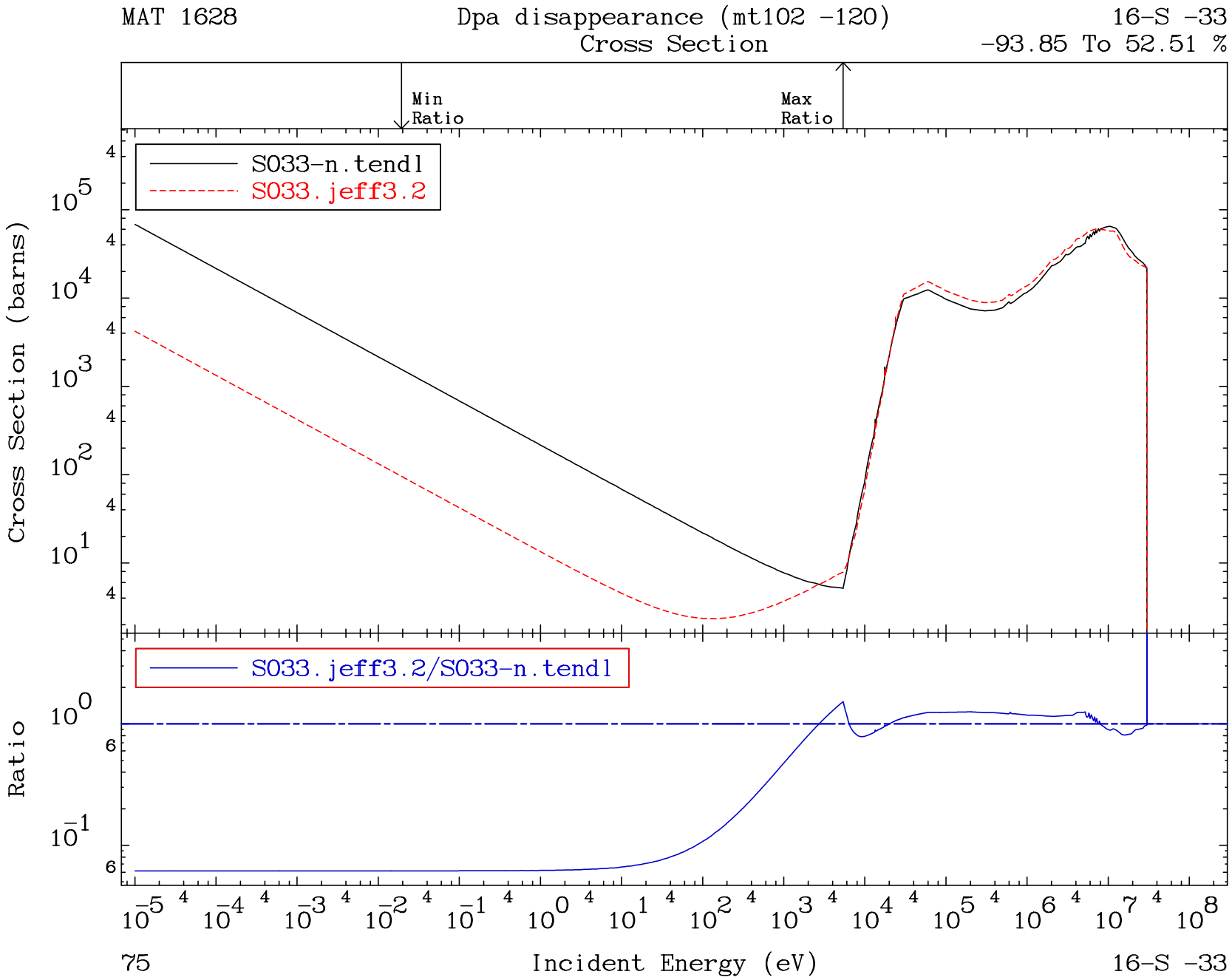

MAT 1628
Total photon (eV-barns)
Cross Section
16-S -33
-99.99 To 9999. %
Min Ratio
Max Ratio
S033-n.tendl
S033.jeff3.2
Cross Section (barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
70
16-S -33


MAT 1628
Total kinematic kerma (high limit)
Cross Section
16-S -33
-85.24 To 855.2 %
Max Ratio
Min Ratio
S033-n.tendl
S033.jeff3.2
S033.jeff3.2/S033-n.tendl
Cross Section (barns)
Ratio
Incident Energy (eV)
71
16-S -33


MAT 1628
Dpa total (eV-barns)
Cross Section
16-S -33
-93.85 To 492.1 %
Min Ratio
Max Ratio
S033-n.tendl
S033.jeff3.2
S033.jeff3.2/S033-n.tendl
Cross Section (barns)
Ratio
Incident Energy (eV)
72
16-S -33


MAT 1628
Dpa elastic (mt2)
Cross Section
16-S -33
-97.77 To 1394. %
Min Ratio
Max Ratio
S033-n.tendl Threshold 218.48 eV
S033.jeff3.2 Threshold 218.48 eV
Cross Section (barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
73
16-S -33


MAT 1628
Dpa inelastic (mt51-91)
Cross Section
16-S -33
-5.468 To 123.3 %
Min Ratio
Max Ratio
S033-n.tendl Threshold 900.00 keV
S033.jeff3.2 Threshold 900.00 keV
Cross Section (barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
74
16-S -33


MAT 1628
Dpa disappearance (mt102 -120)
Cross Section
16-S -33
-93.85 To 52.51 %
Min Ratio
Max Ratio
S033-n.tendl
S033.jeff3.2
Cross Section (barns)
S033.jeff3.2/S033-n.tendl
Ratio
Incident Energy (eV)
75
16-S -33