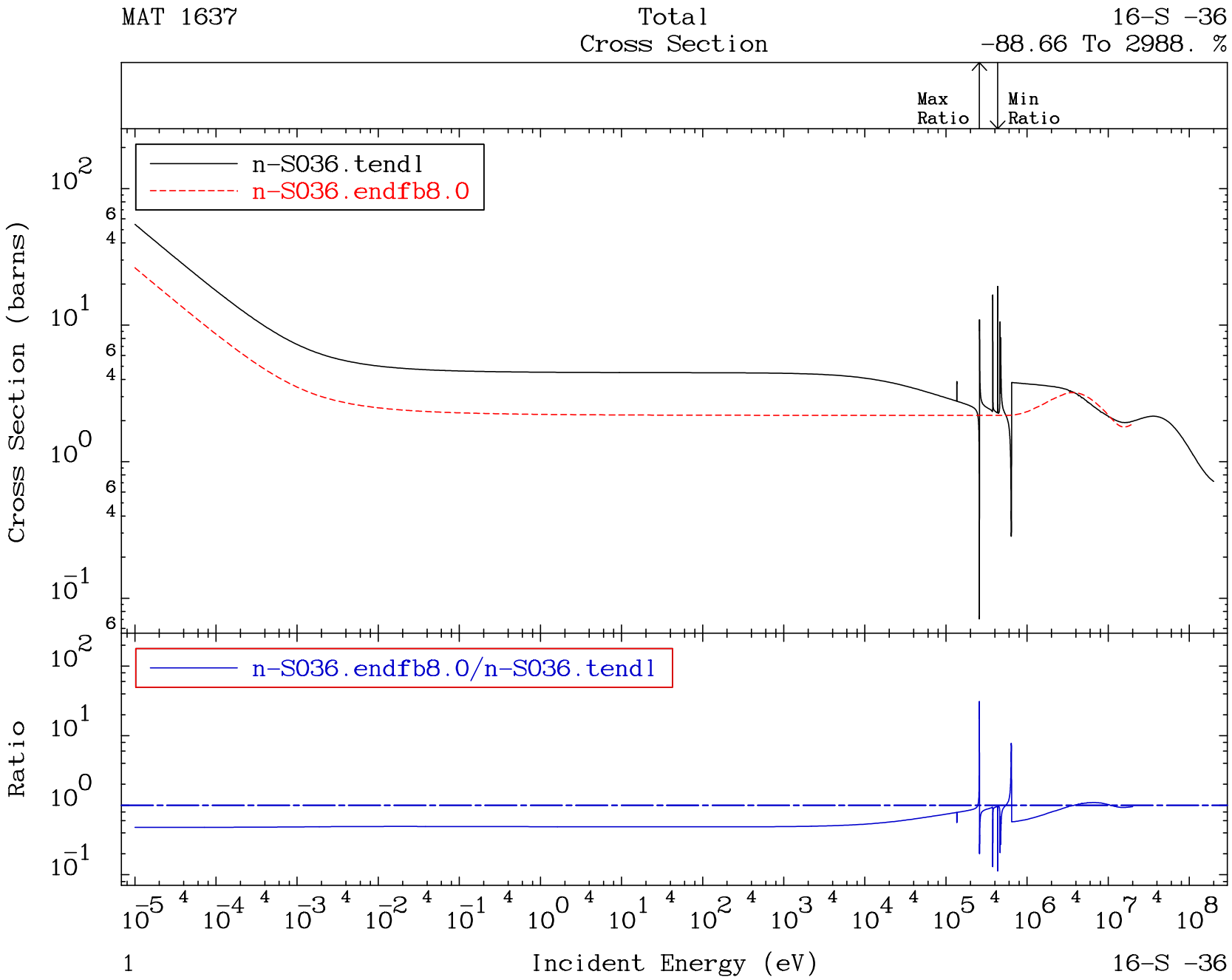
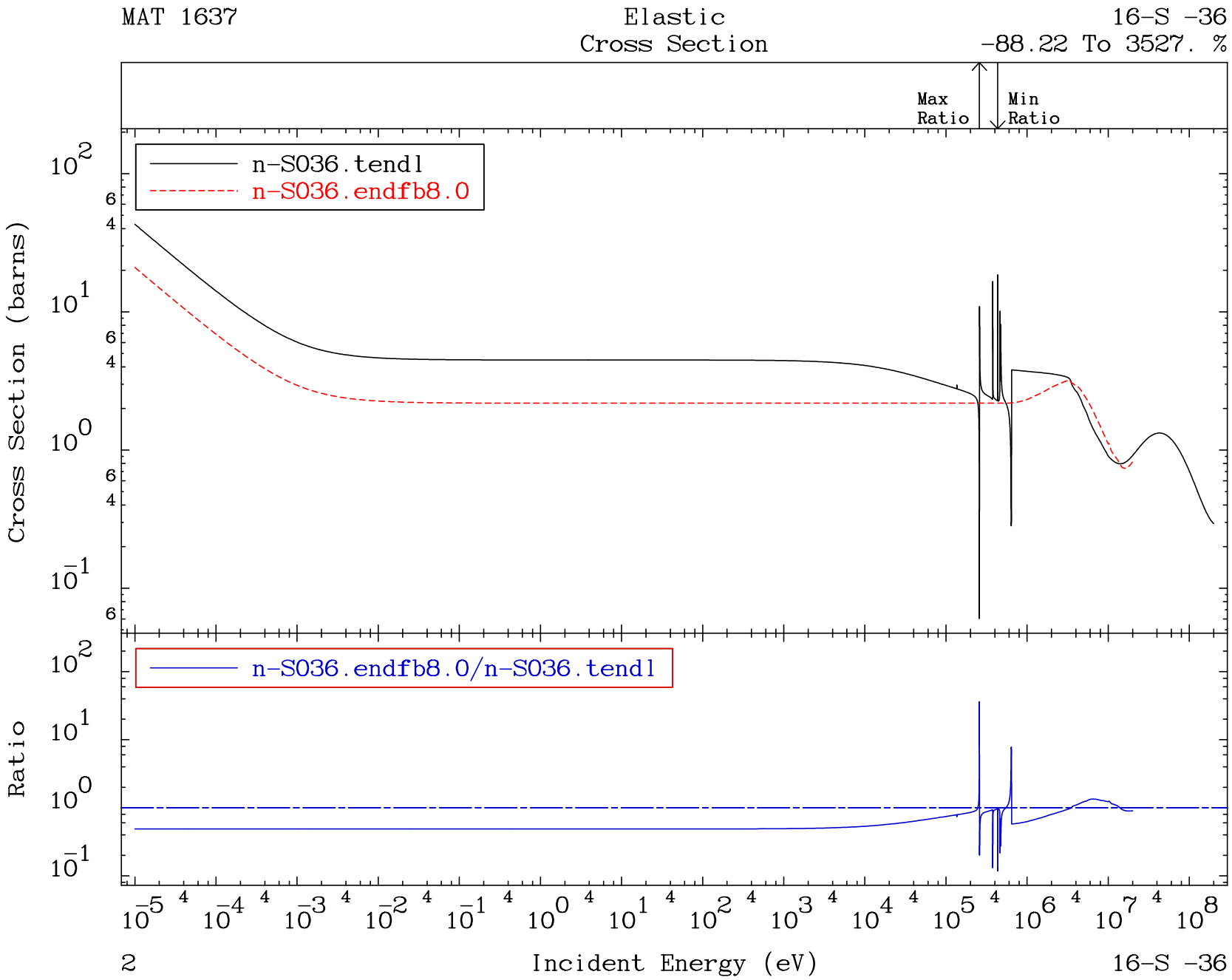
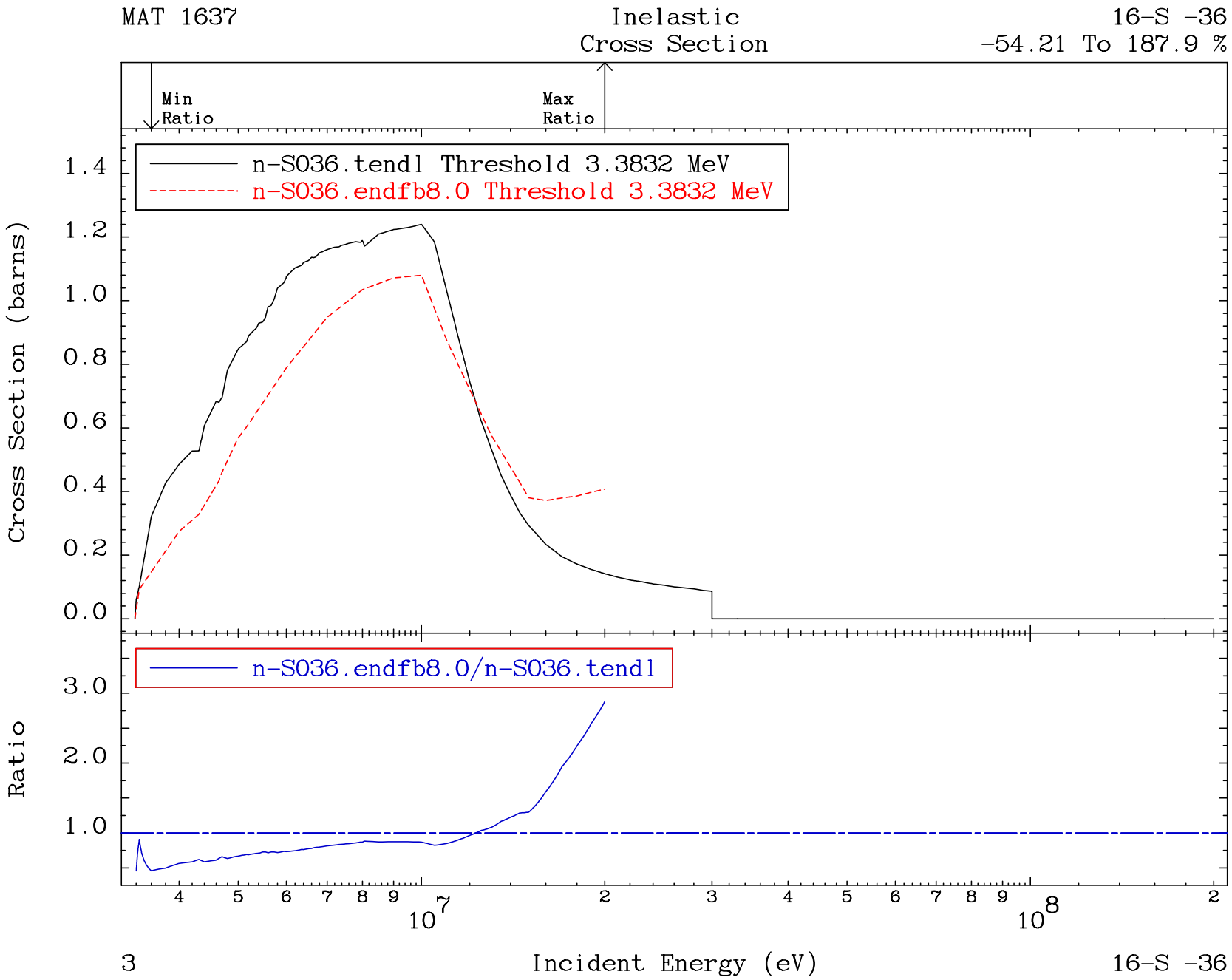
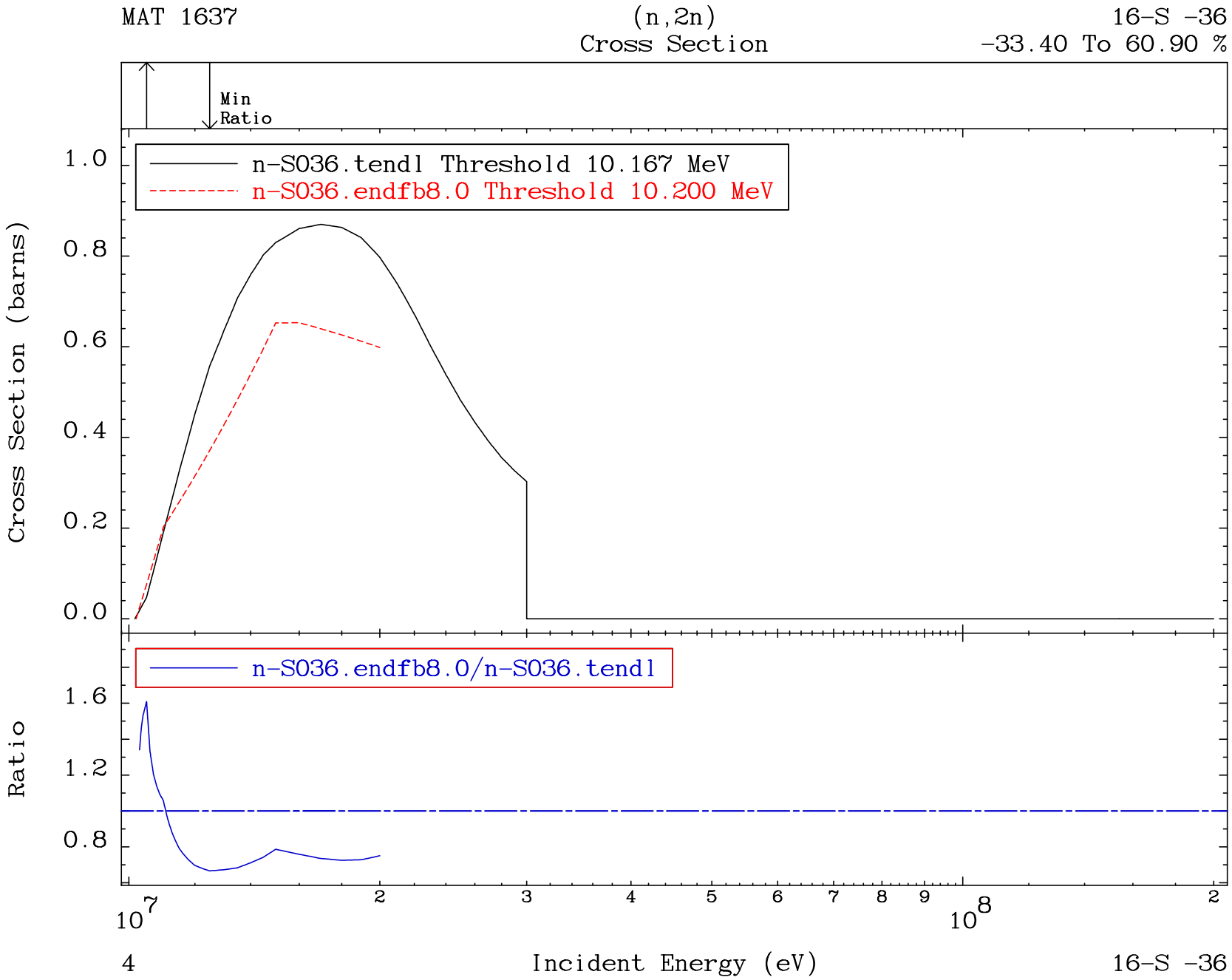
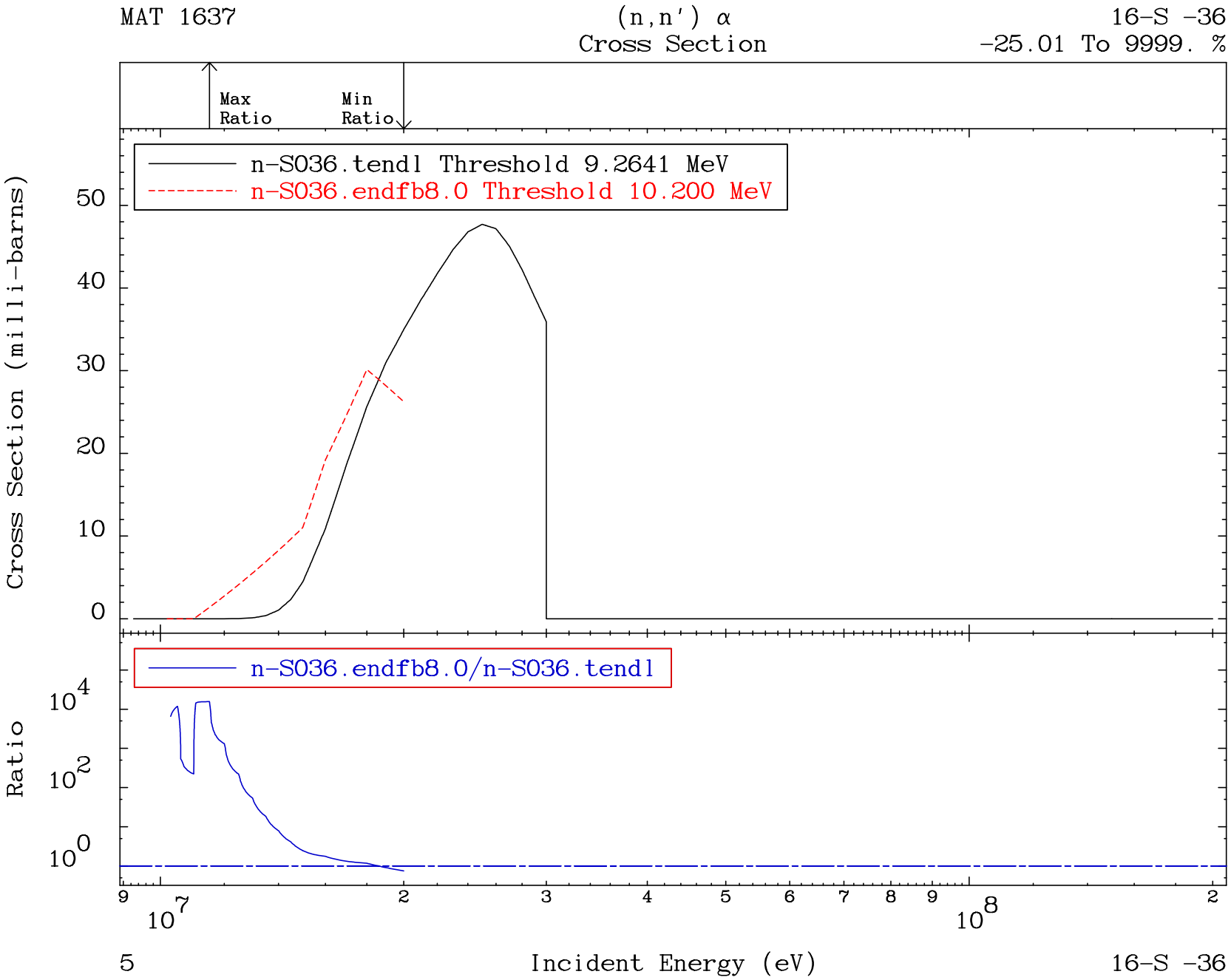
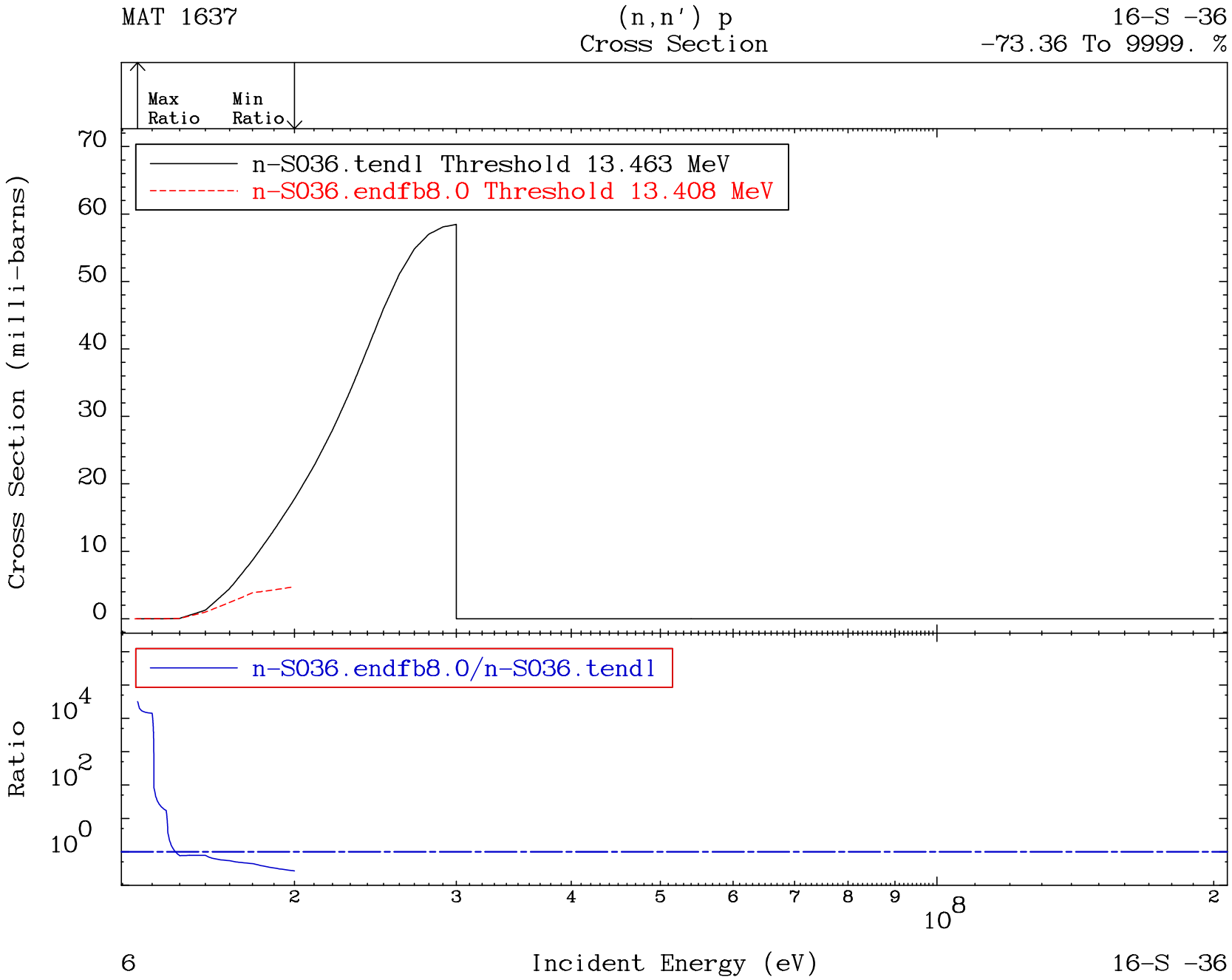

MAT 1637
Total
Cross Section
16-S -36
-88.66 To 2988. %
Max Ratio
Min Ratio
n-S036.tendl
n-S036.endfb8.0
Cross Section (barns)
n-S036.endfb8.0/n-S036.tendl
Ratio
Incident Energy (eV)
1
16-S -36

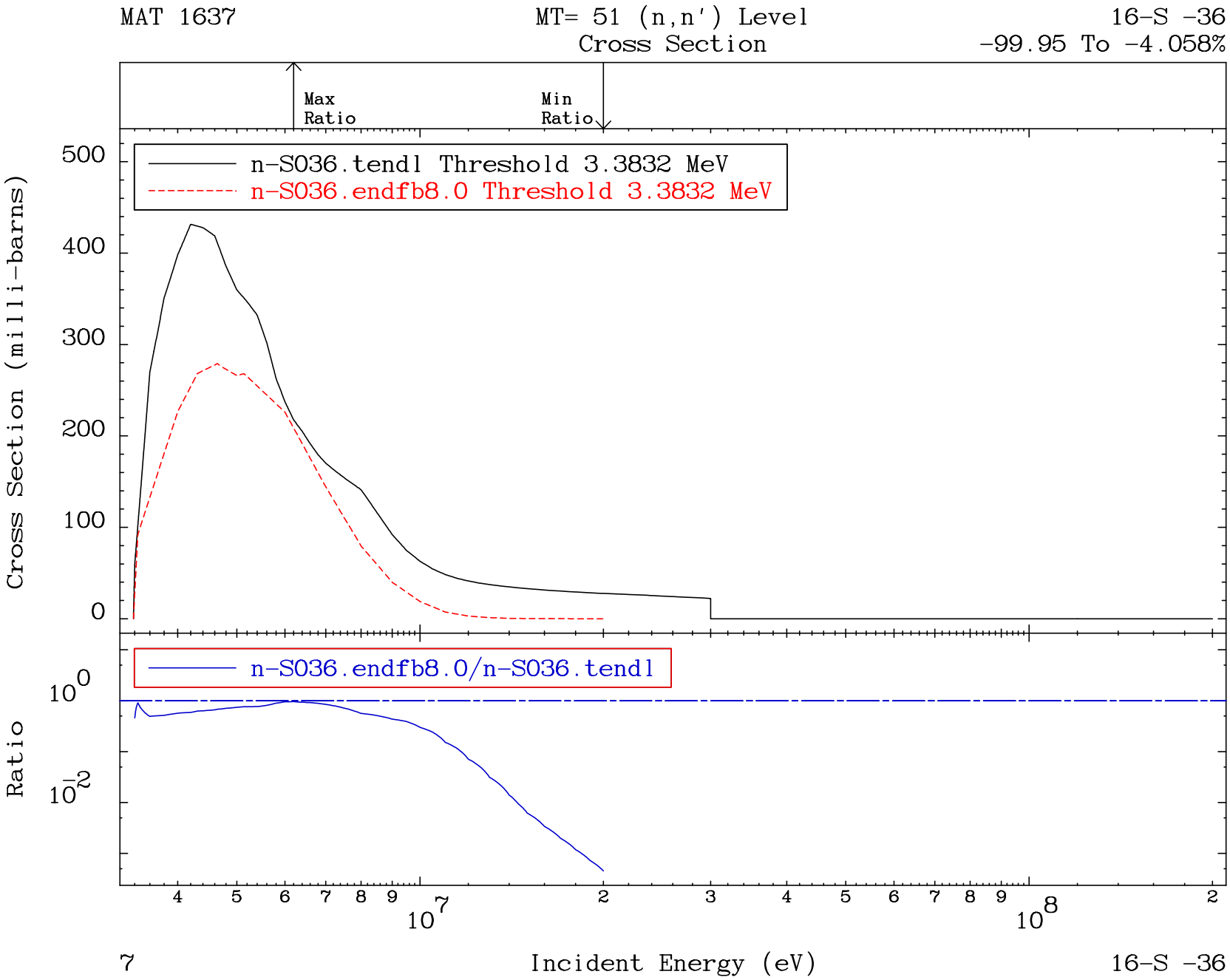

MAT 1637
Elastic
Cross Section
16-S -36
-88.22 To 3527. %
Max Ratio
Min Ratio
n-S036.tendl
n-S036.endfb8.0
Cross Section (barns)
n-S036.endfb8.0/n-S036.tendl
Ratio
Incident Energy (eV)
2
16-S -36

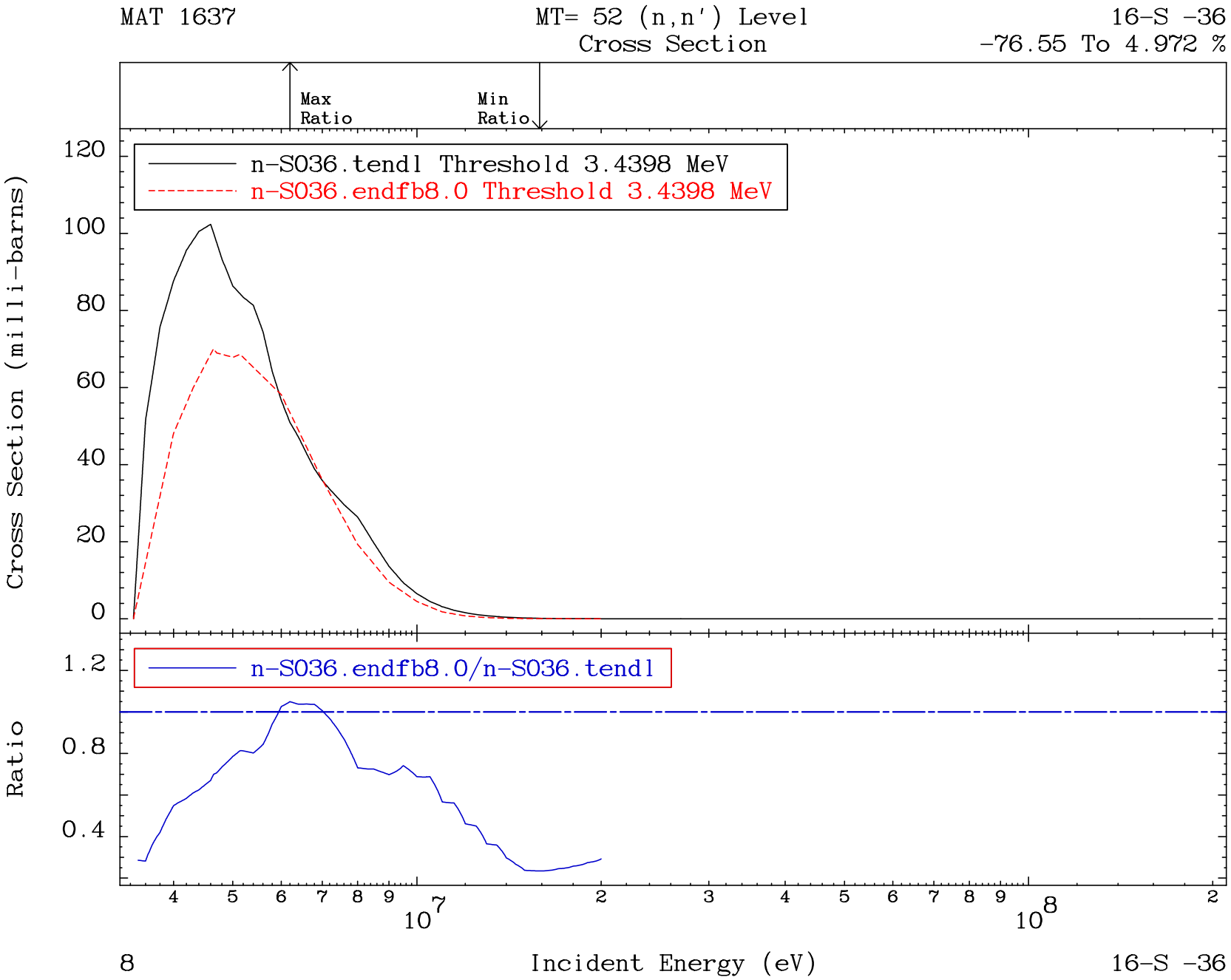

MAT 1637
Inelastic
Cross Section
16-S -36
-54.21 To 187.9 %
Min
Ratio
Max
Ratio
n-S036.tendl Threshold 3.3832 MeV
n-S036.endfb8.0 Threshold 3.3832 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-S036.endfb8.0/n-S036.tendl
Ratio
3.0
2.0
1.0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
3
Incident Energy (eV)
16-S -36

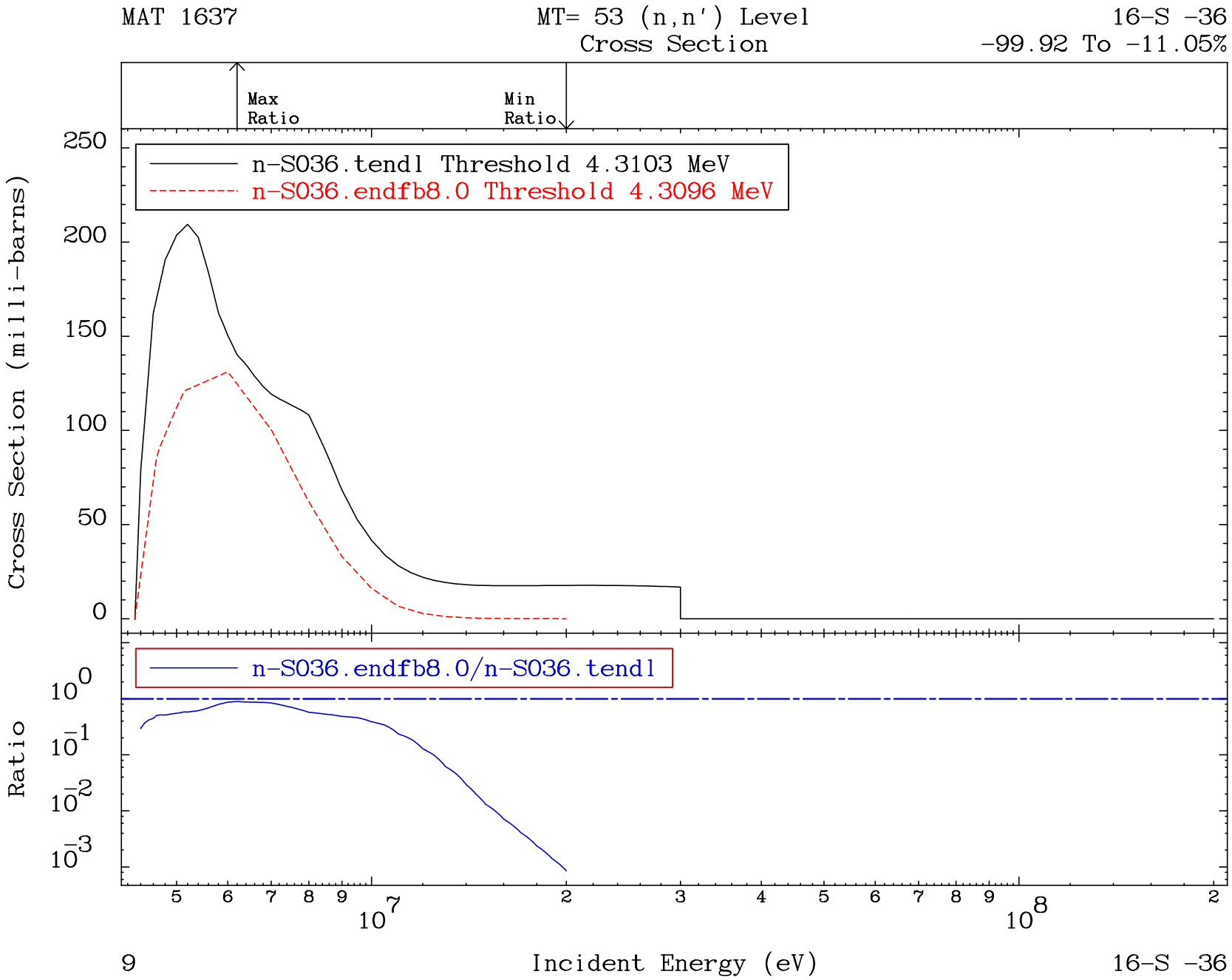

MAT 1637
(n,2n)
Cross Section
16-S -36
-33.40 To 60.90 %
Min
Ratio
n-S036.tendl Threshold 10.167 MeV
n-S036.endfb8.0 Threshold 10.200 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-S036.endfb8.0/n-S036.tendl
Ratio
1.6
1.2
0.8
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
16-S -36

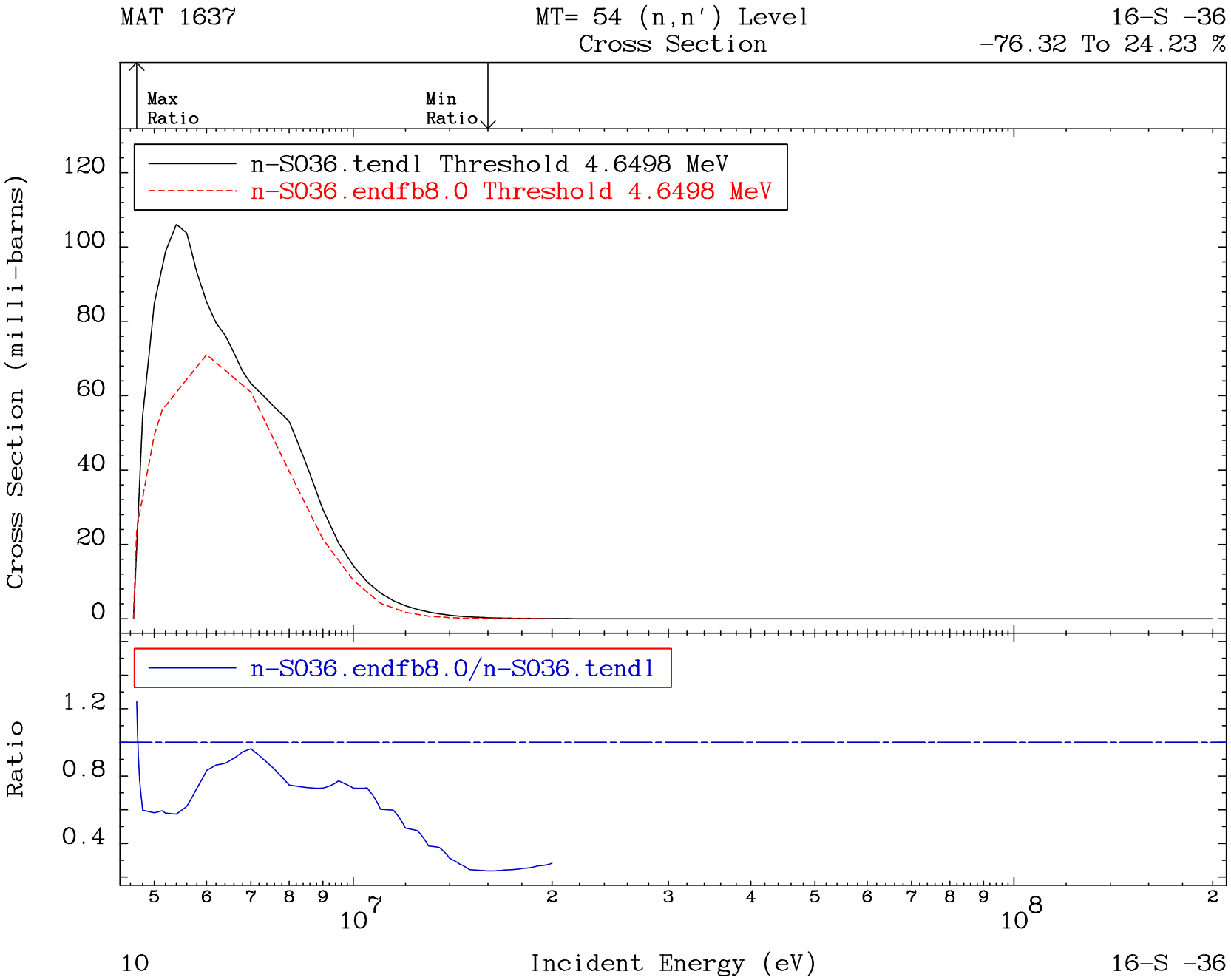

MAT 1637
(n,n') α
Cross Section
16-S -36
-25.01 To 9999. %
Max Ratio
Min Ratio
n-S036.tendl Threshold 9.2641 MeV
n-S036.endfb8.0 Threshold 10.200 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-S036.endfb8.0/n-S036.tendl
Ratio
10^4
10^2
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
16-S -36

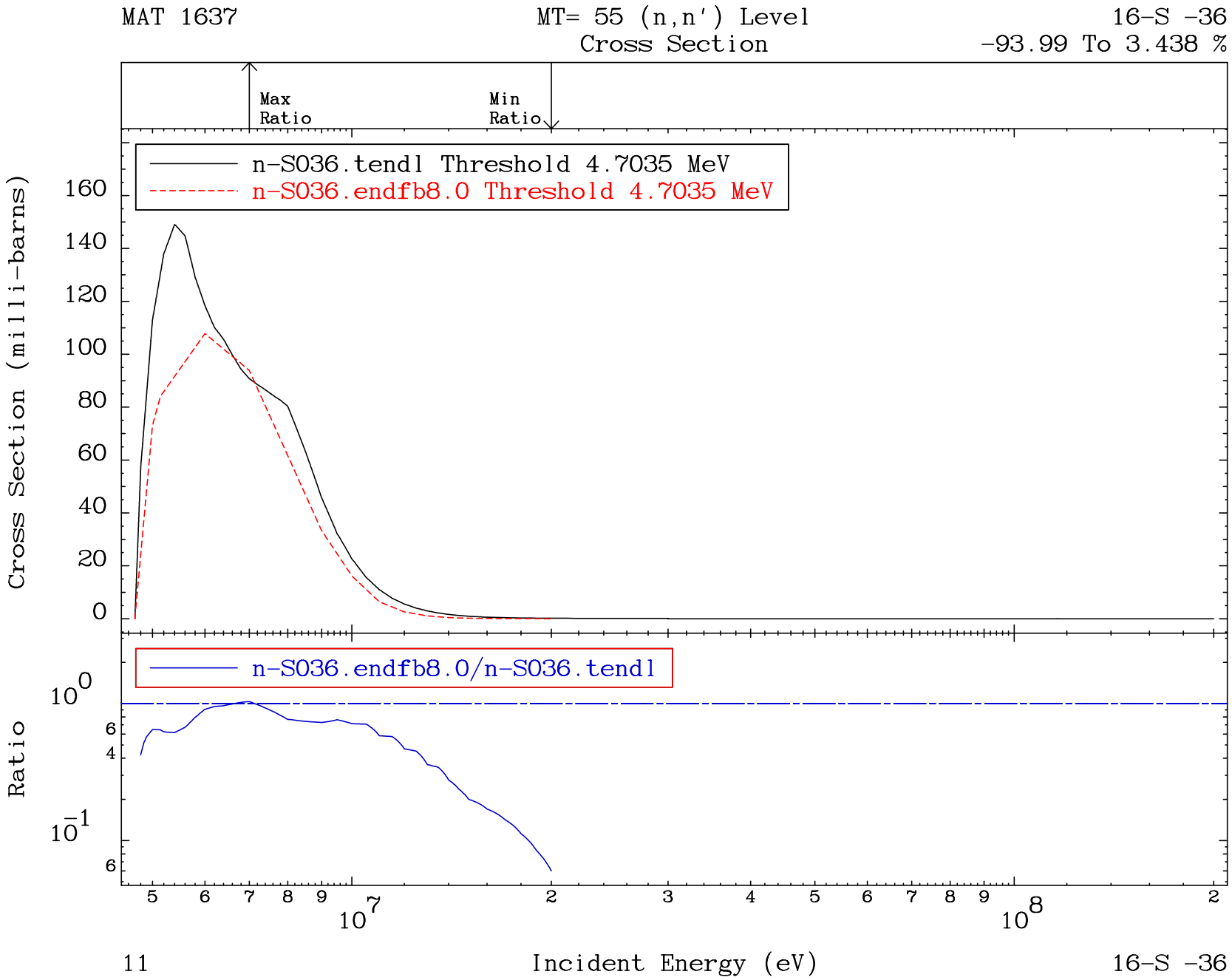

MAT 1637
(n,n') p
Cross Section
16-S -36
-73.36 To 9999. %
Max Ratio
Min Ratio
n-S036.tendl Threshold 13.463 MeV
n-S036.endfb8.0 Threshold 13.408 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-S036.endfb8.0/n-S036.tendl
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
16-S -36

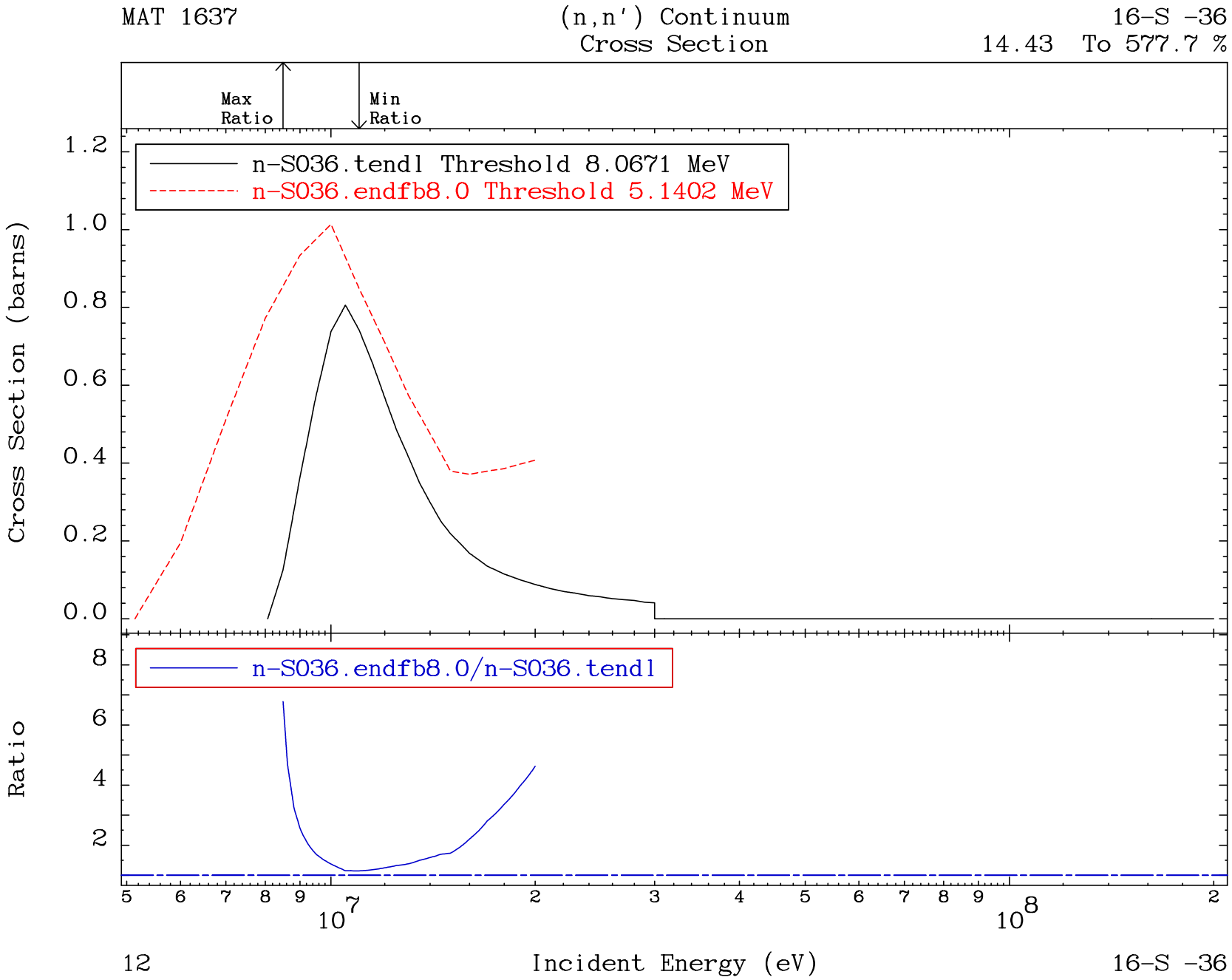

MAT 1637
MT= 51 (n,n') Level
Cross Section
16-S -36
-99.95 To -4.058%
Max Ratio
Min Ratio
n-S036.tendl Threshold 3.3832 MeV
n-S036.endfb8.0 Threshold 3.3832 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
n-S036.endfb8.0/n-S036.tendl
Ratio
10^0
10^-2
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
16-S -36

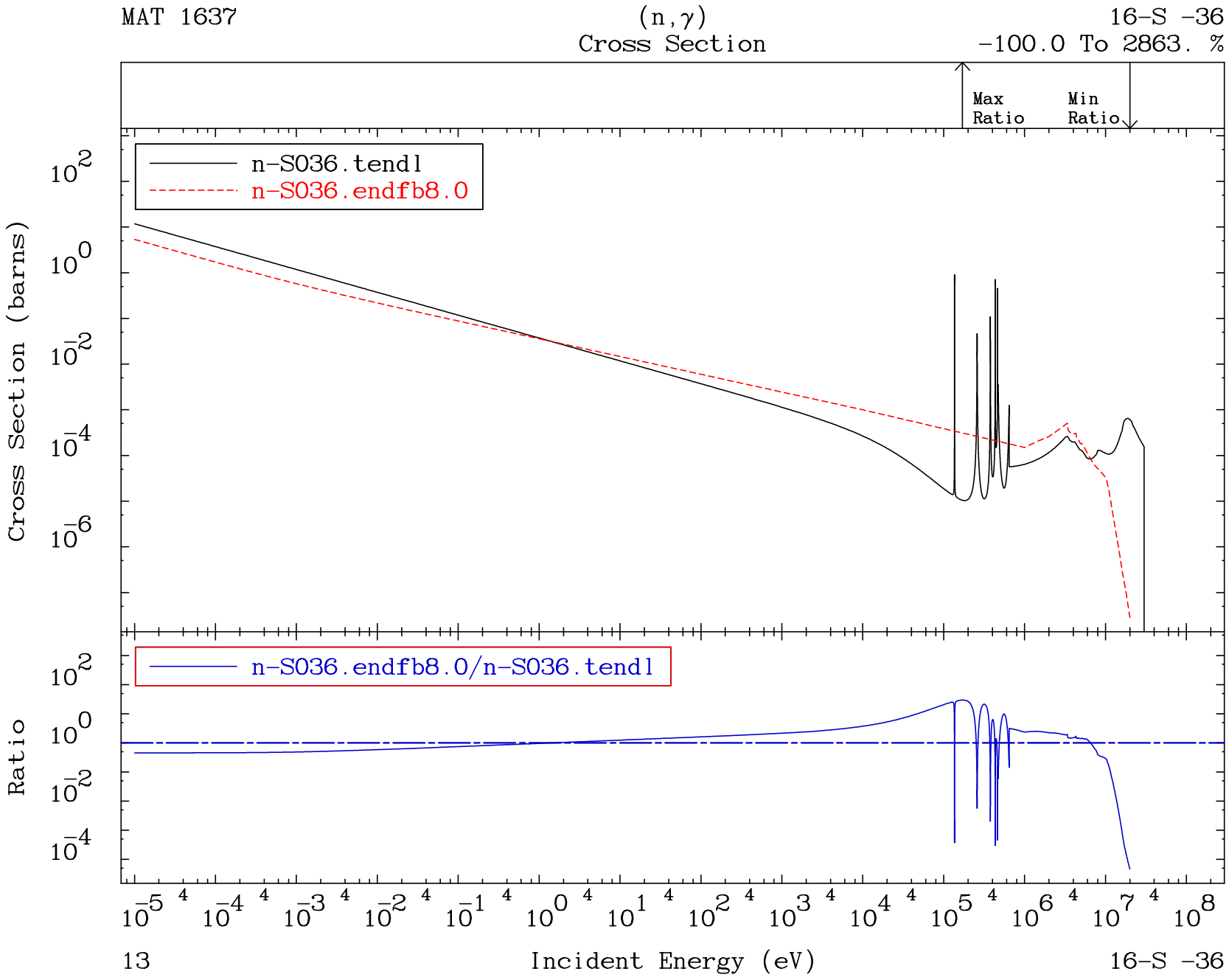

MAT 1637
MT= 52 (n,n') Level
Cross Section
16-S -36
-76.55 To 4.972 %
Max Ratio
Min Ratio
n-S036.tendl Threshold 3.4398 MeV
n-S036.endfb8.0 Threshold 3.4398 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-S036.endfb8.0/n-S036.tendl
Ratio
1.2
0.8
0.4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
8
Incident Energy (eV)
16-S -36

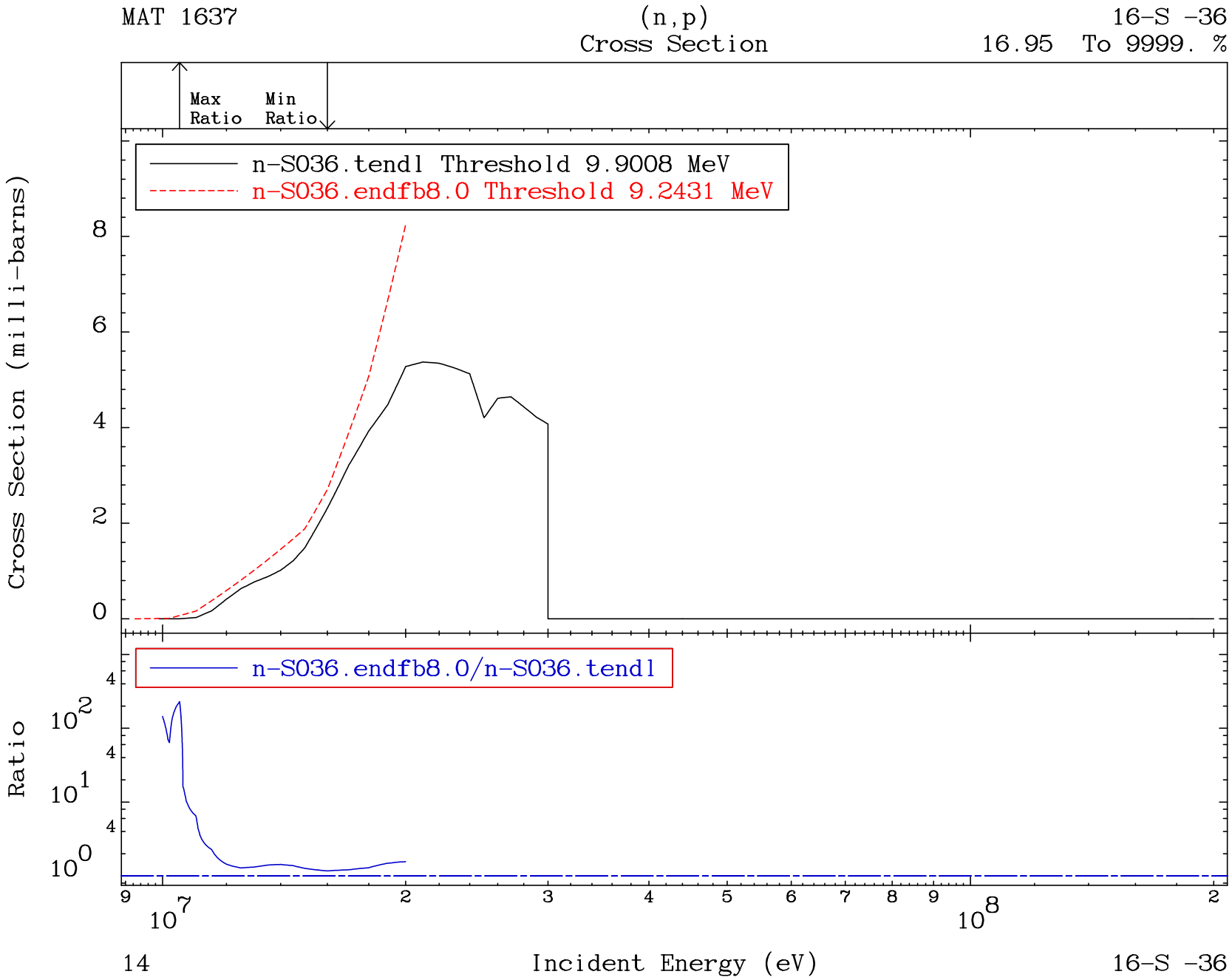

MAT 1637
MT= 53 (n,n') Level
Cross Section
16-S -36
-99.92 To -11.05%
Max
Ratio
Min
Ratio
n-S036.tendl Threshold 4.3103 MeV
n-S036.endfb8.0 Threshold 4.3096 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-S036.endfb8.0/n-S036.tendl
Ratio
10^0
10^-1
10^-2
10^-3
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
9
Incident Energy (eV)
16-S -36

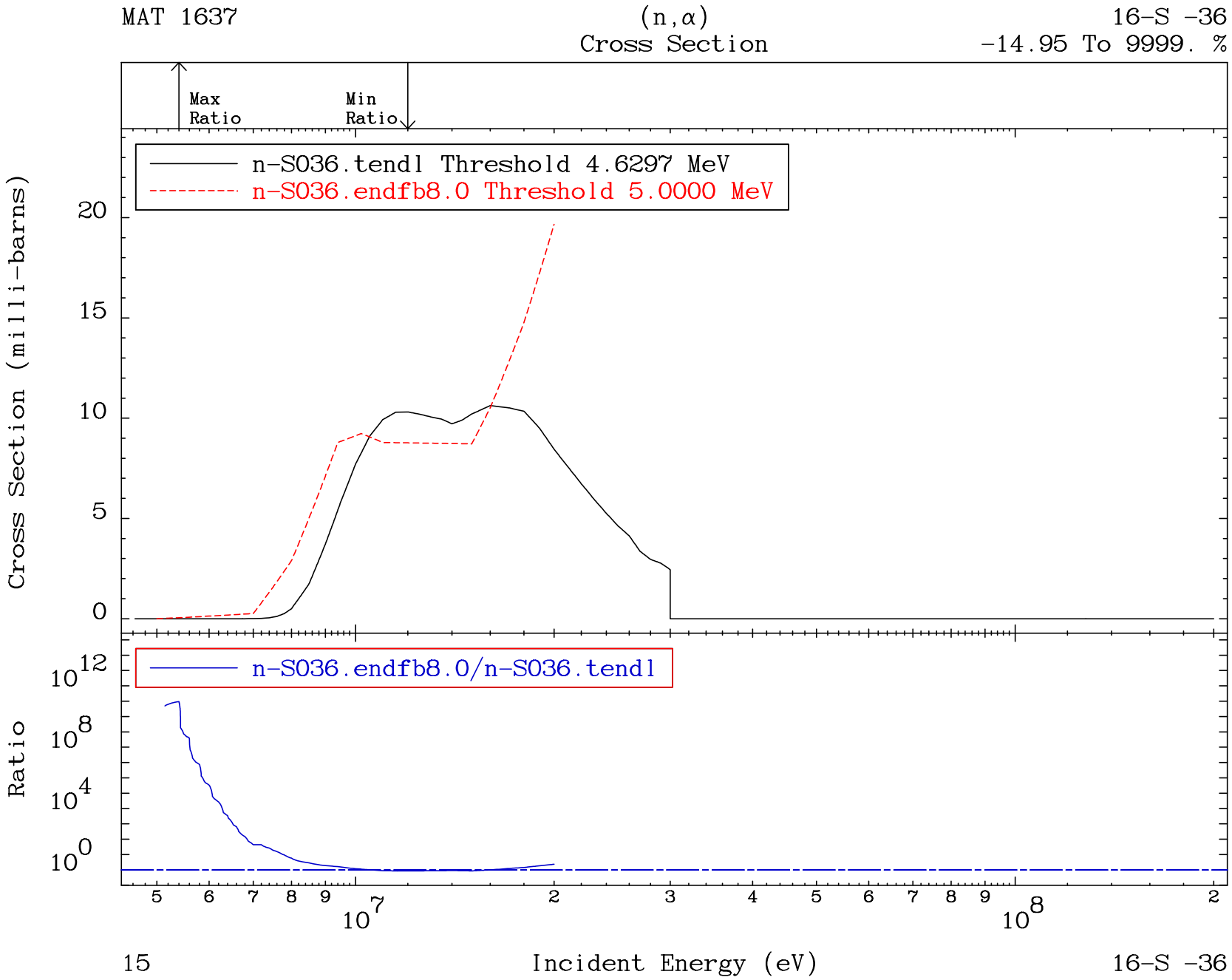

MAT 1637
MT= 54 (n,n') Level
Cross Section
16-S -36
-76.32 To 24.23 %
Max Ratio
Min Ratio
n-S036.tendl Threshold 4.6498 MeV
n-S036.endfb8.0 Threshold 4.6498 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-S036.endfb8.0/n-S036.tendl
Ratio
1.2
0.8
0.4
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
16-S -36

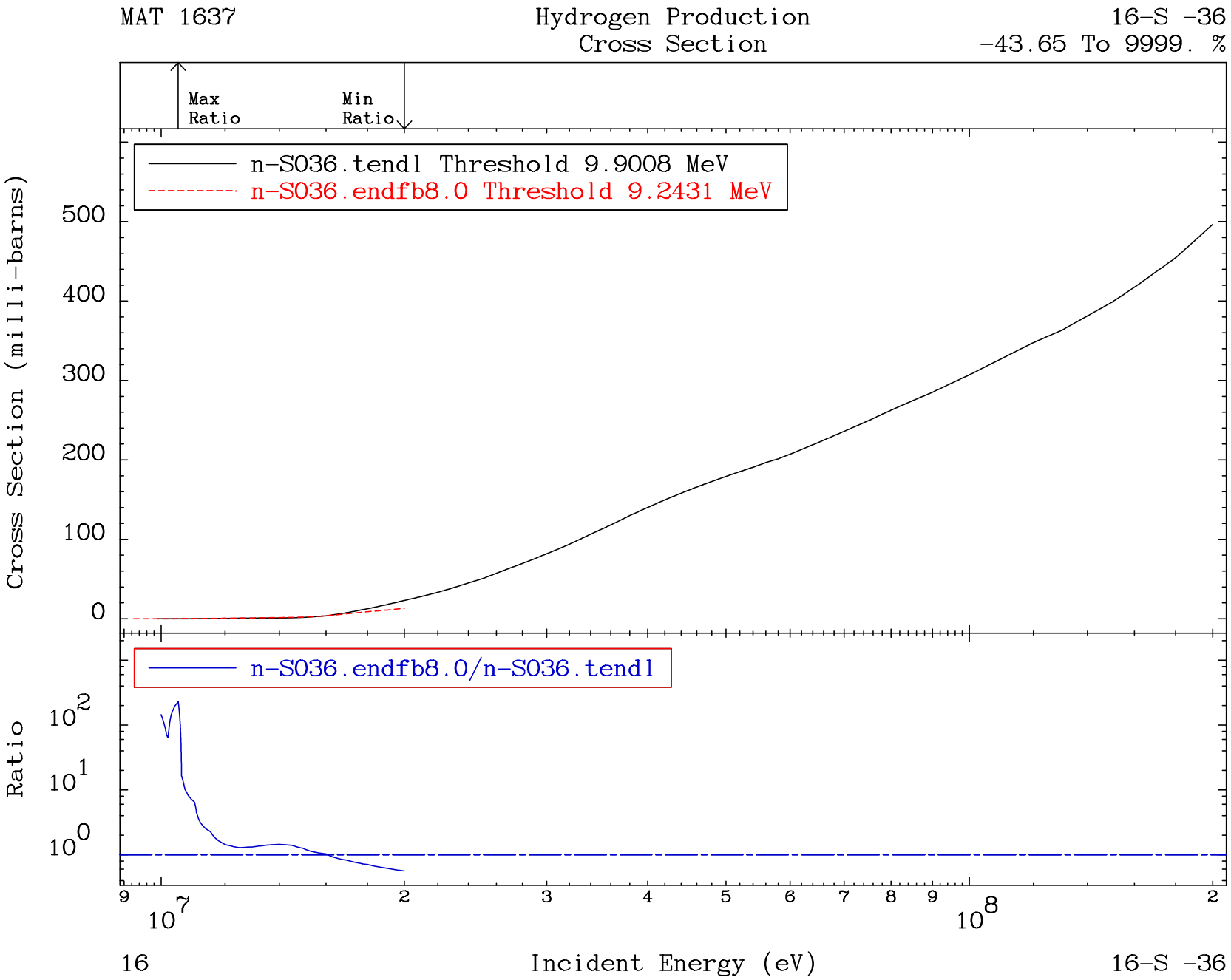

MAT 1637
MT= 55 (n,n') Level
Cross Section
16-S -36
-93.99 To 3.438 %
Max Ratio
Min Ratio
n-S036.tendl Threshold 4.7035 MeV
n-S036.endfb8.0 Threshold 4.7035 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-S036.endfb8.0/n-S036.tendl
Ratio
10^0
6
4
10^-1
6
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
16-S -36

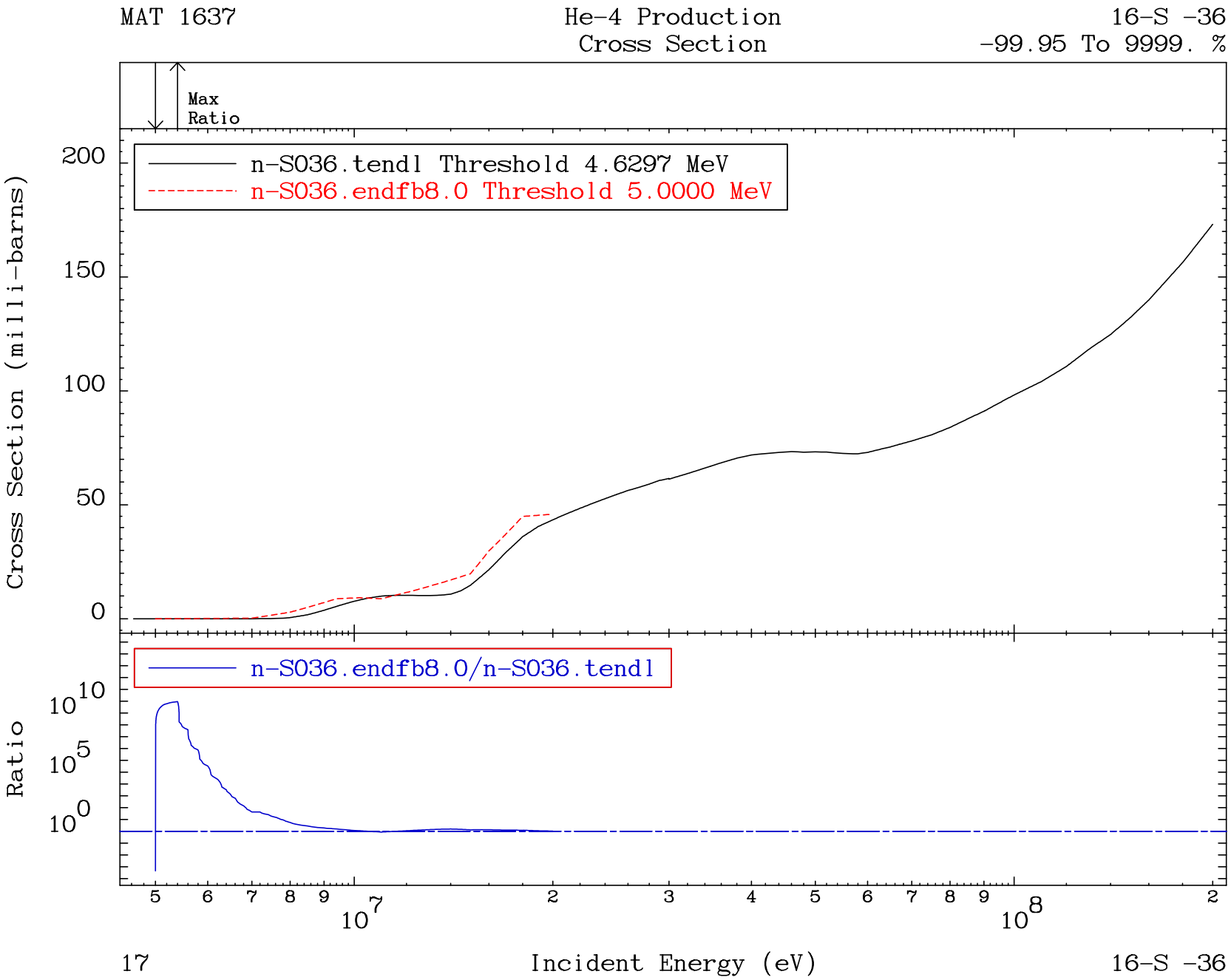

MAT 1637
(n,n') Continuum
Cross Section
16-S -36
14.43 To 577.7 %
Max Ratio
Min Ratio
n-S036.tendl Threshold 8.0671 MeV
n-S036.endfb8.0 Threshold 5.1402 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-S036.endfb8.0/n-S036.tendl
Ratio
8
6
4
2
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
12
Incident Energy (eV)
16-S -36

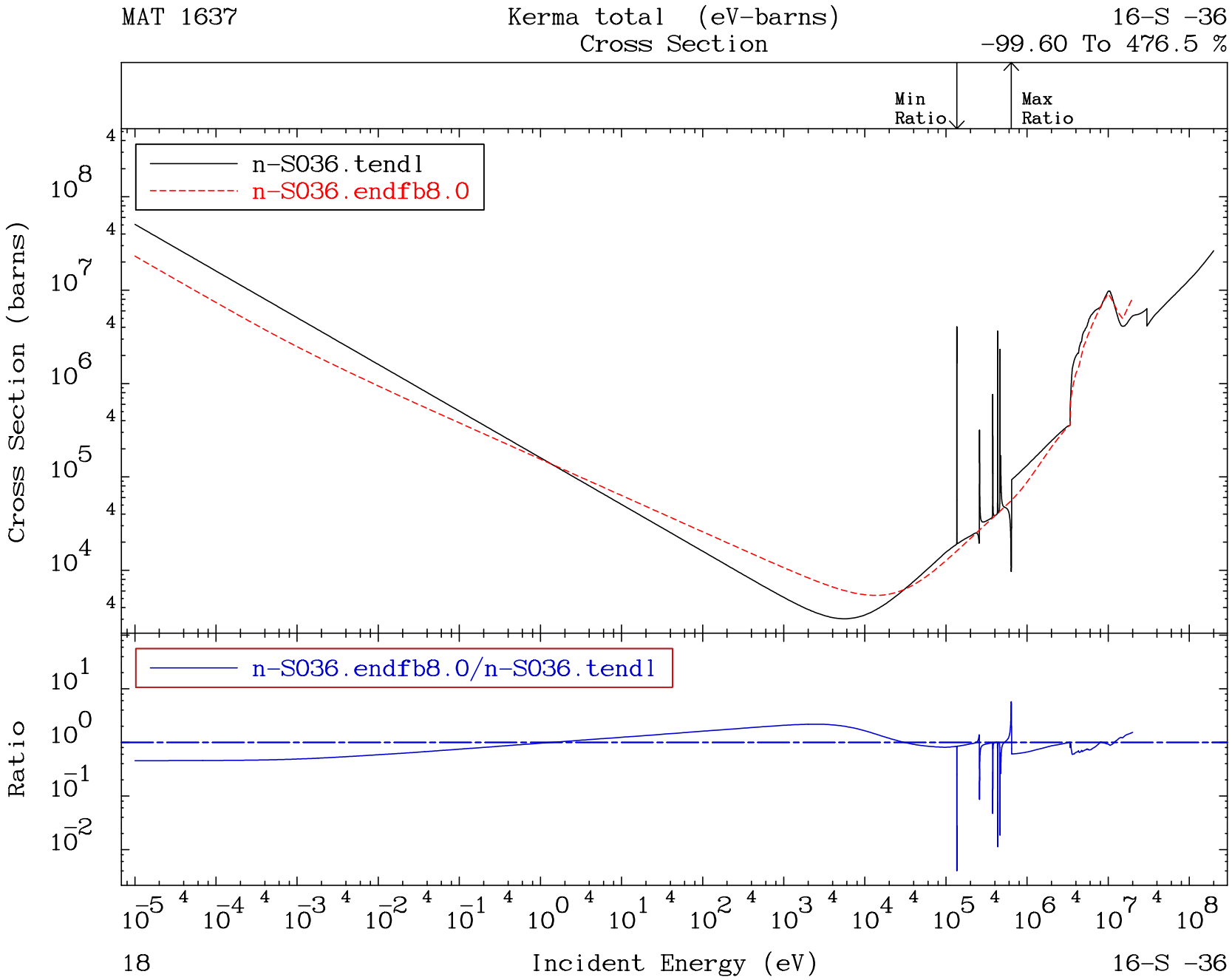

MAT 1637
(n,γ)
Cross Section
16-S -36
-100.0 To 2863. %
Max Ratio
Min Ratio
n-S036.tendl
n-S036.endfb8.0
Cross Section (barns)
n-S036.endfb8.0/n-S036.tendl
Ratio
Incident Energy (eV)
13
16-S -36

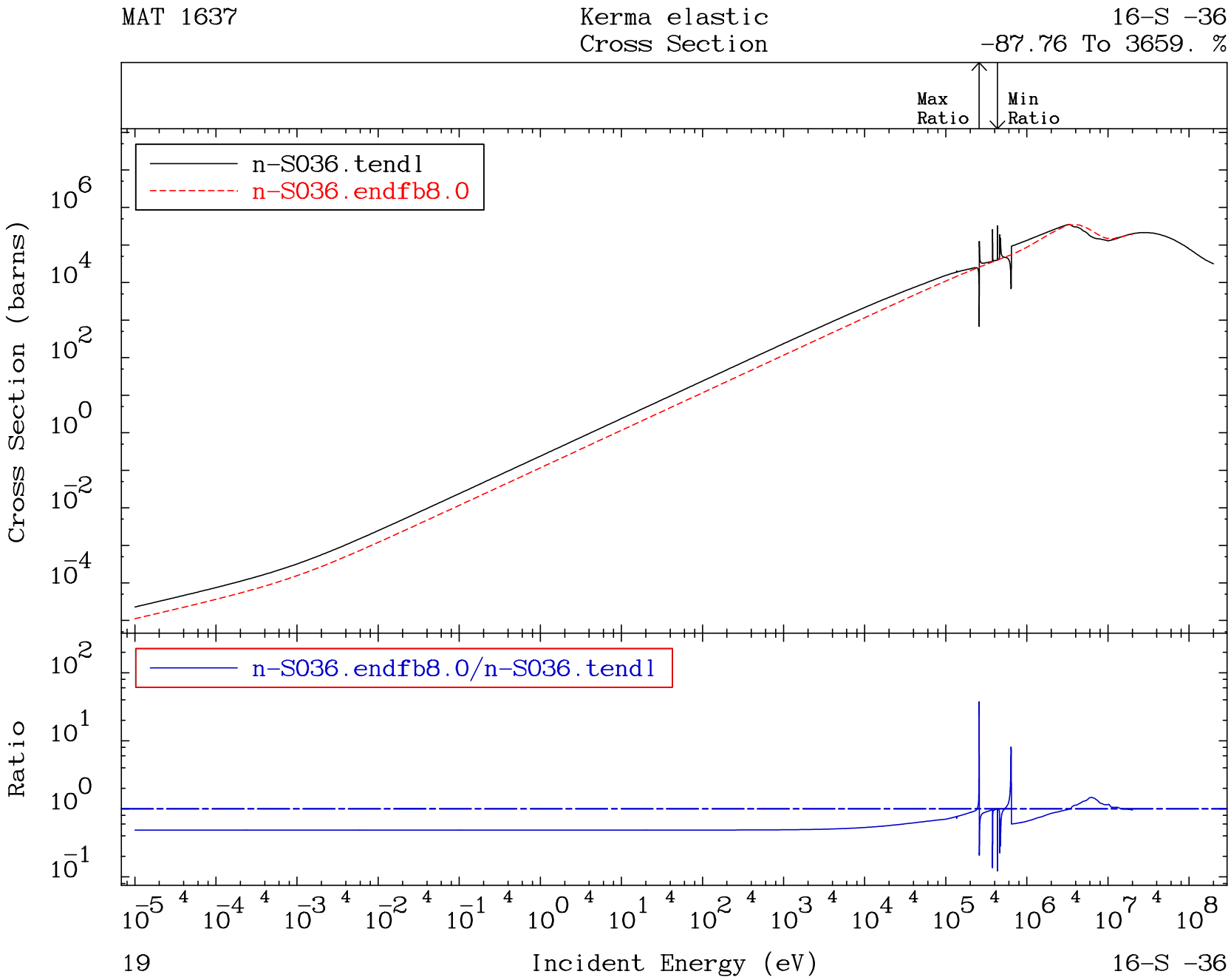

MAT 1637
(n,p)
Cross Section
16-S -36
16.95 To 9999. %
Max Ratio
Min Ratio
n-S036.tendl Threshold 9.9008 MeV
n-S036.endfb8.0 Threshold 9.2431 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-S036.endfb8.0/n-S036.tendl
Ratio
10^0
10^1
10^2
4
4
4
9
10^7
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
16-S -36

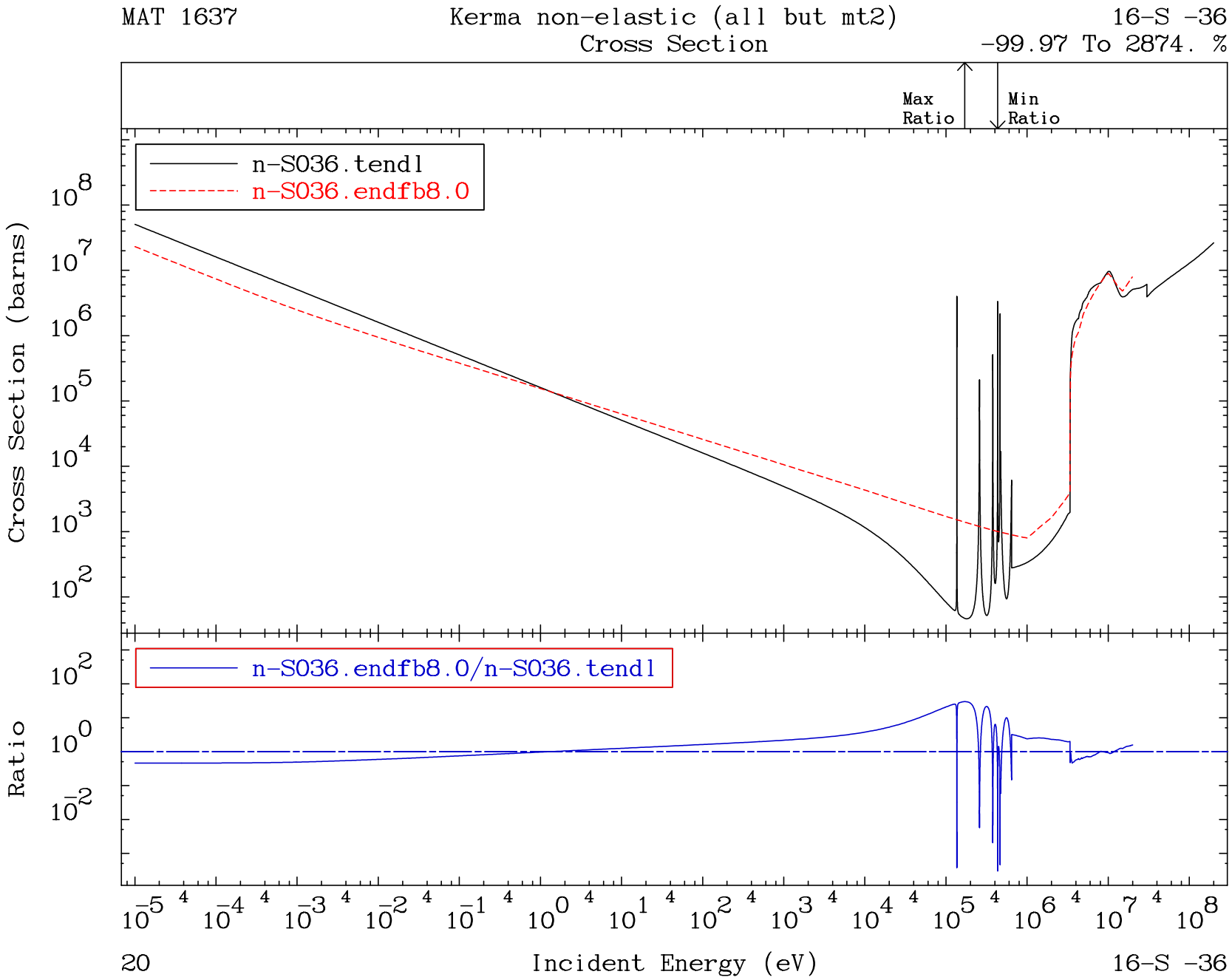

MAT 1637
(n,α)
Cross Section
16-S -36
-14.95 To 9999. %
Max Ratio
Min Ratio
n-S036.tendl Threshold 4.6297 MeV
n-S036.endfb8.0 Threshold 5.0000 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-S036.endfb8.0/n-S036.tendl
Ratio
10^12
10^8
10^4
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
15
Incident Energy (eV)
16-S -36

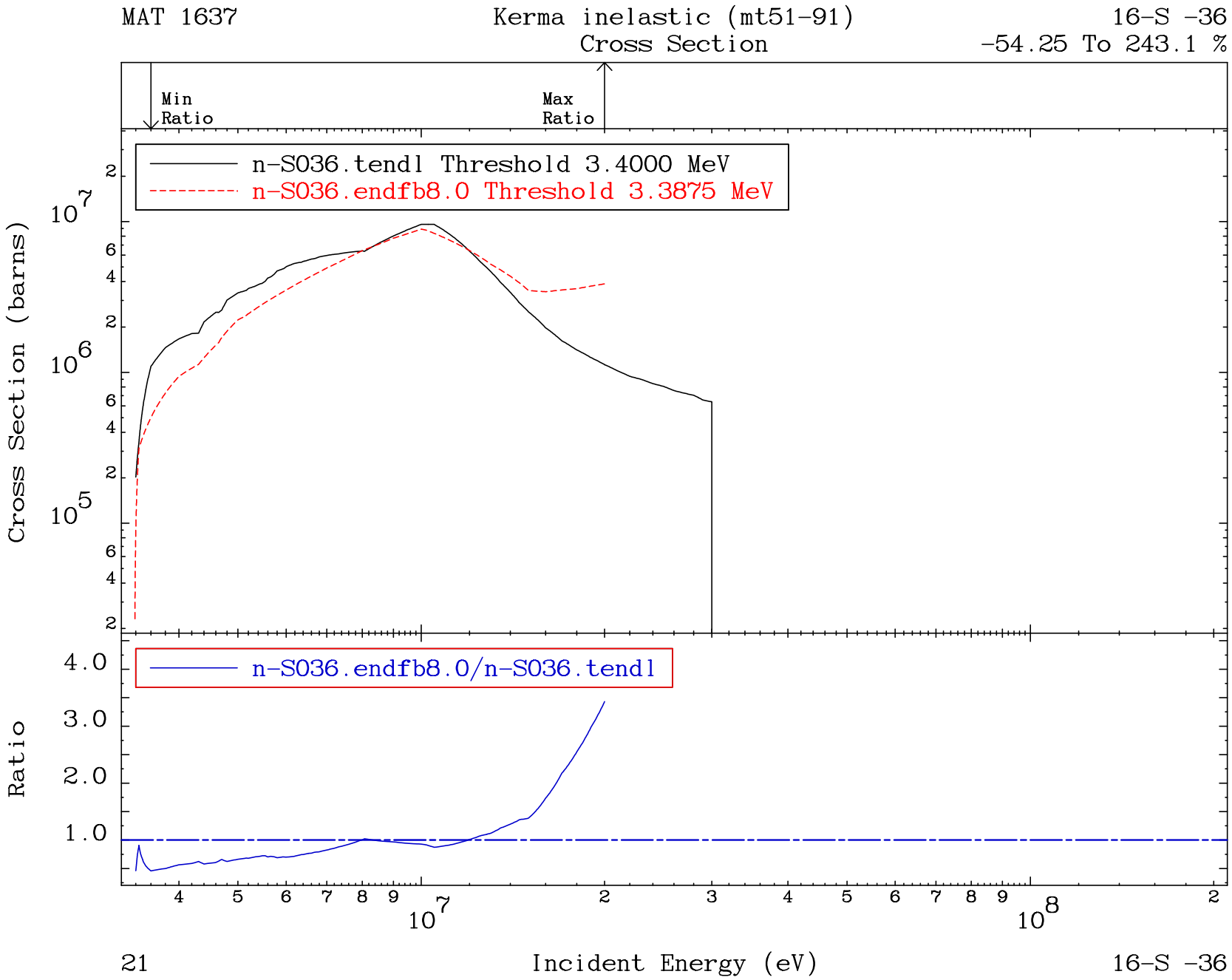

MAT 1637
Hydrogen Production
Cross Section
16-S -36
-43.65 To 9999. %
Max Ratio
Min Ratio
n-S036.tendl Threshold 9.9008 MeV
n-S036.endfb8.0 Threshold 9.2431 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
n-S036.endfb8.0/n-S036.tendl
Ratio
10^2
10^1
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
16
Incident Energy (eV)
16-S -36

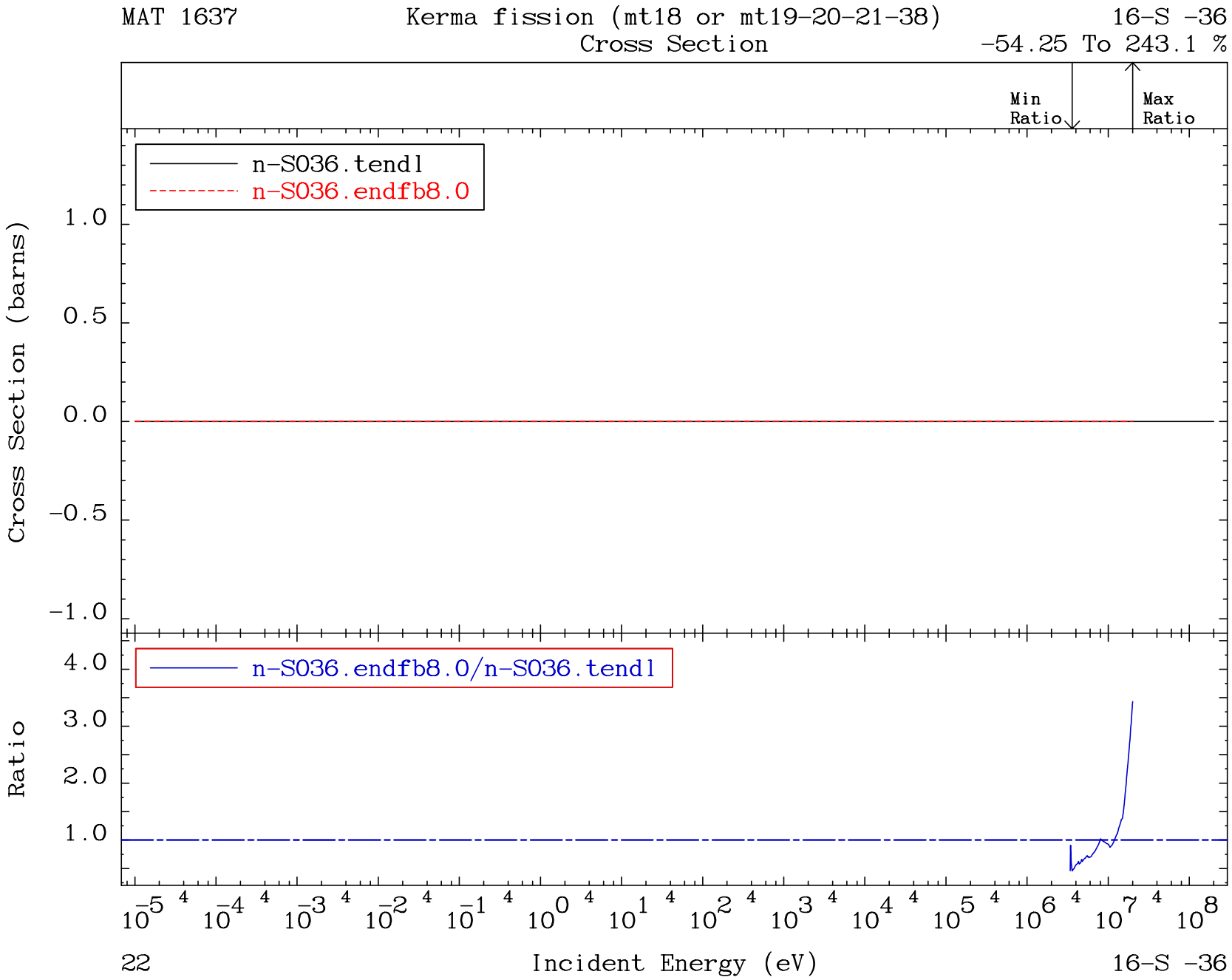

MAT 1637
He-4 Production
Cross Section
16-S -36
-99.95 To 9999. %
Max
Ratio
n-S036.tendl Threshold 4.6297 MeV
n-S036.endfb8.0 Threshold 5.0000 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-S036.endfb8.0/n-S036.tendl
Ratio
10^10
10^5
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
17
Incident Energy (eV)
16-S -36

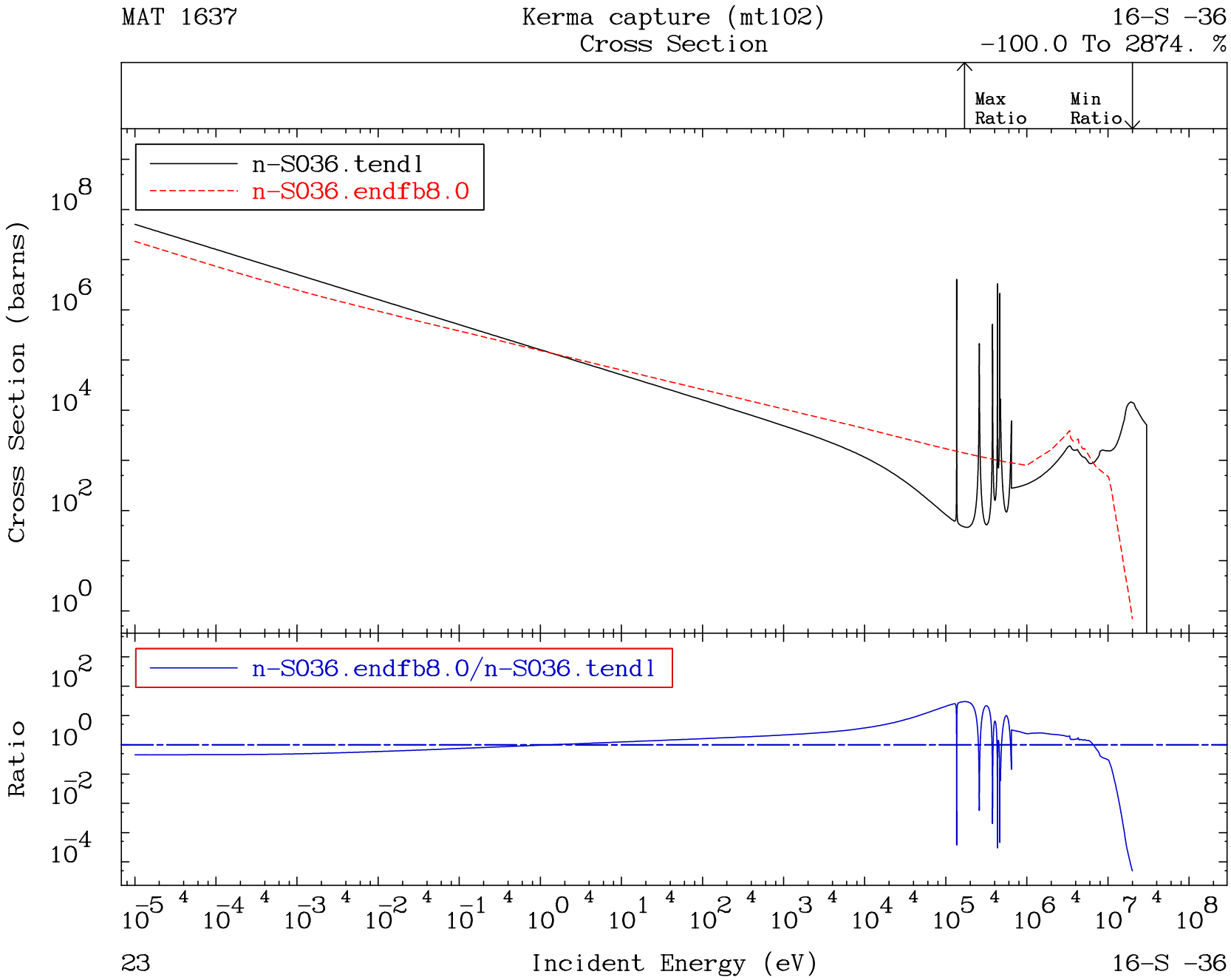

MAT 1637
Kerma total (eV-barns)
Cross Section
16-S -36
-99.60 To 476.5 %
Min Ratio
Max Ratio
n-S036.tendl
n-S036.endfb8.0
Cross Section (barns)
n-S036.endfb8.0/n-S036.tendl
Ratio
Incident Energy (eV)
18
16-S -36

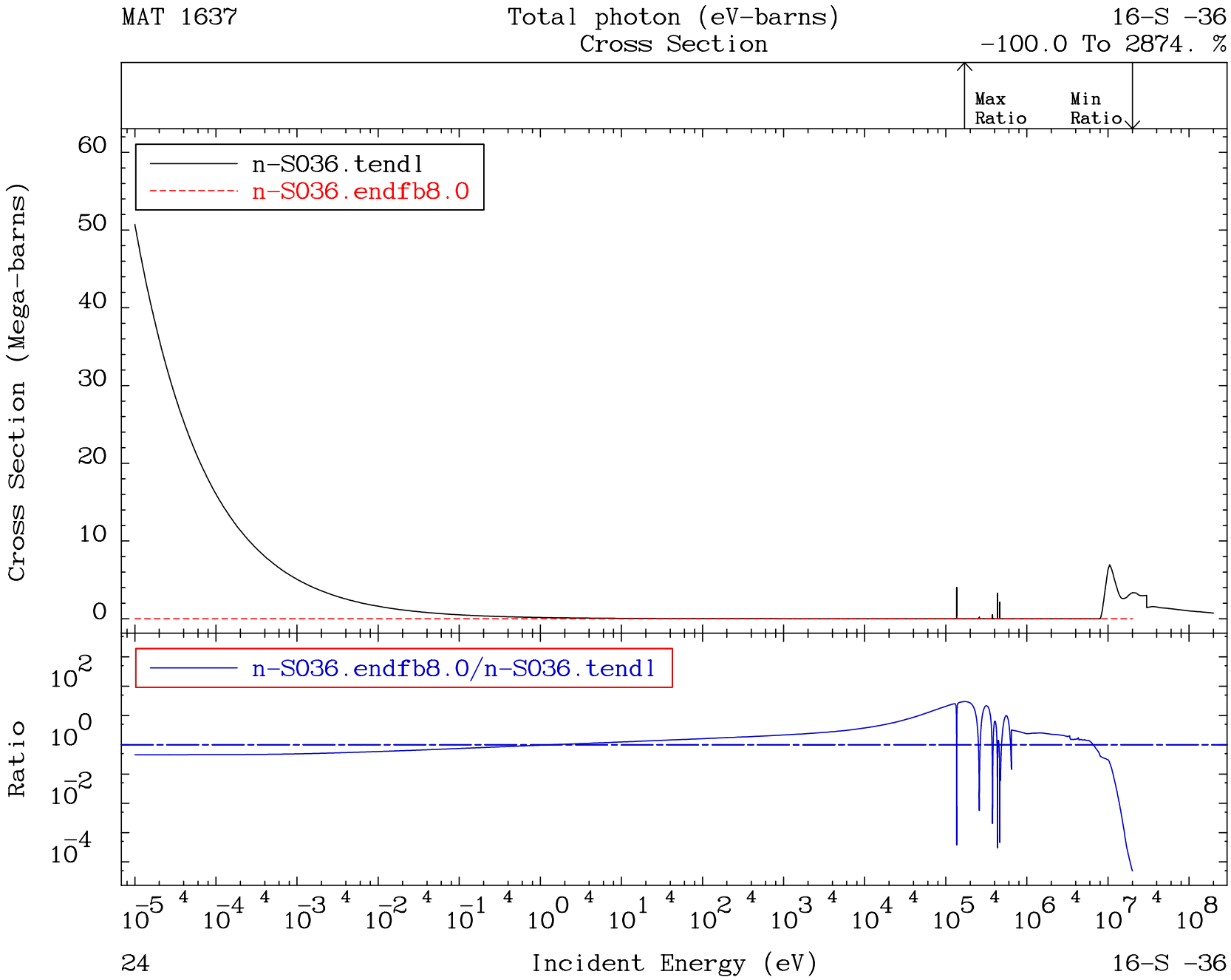

MAT 1637
Kerma elastic
Cross Section
16-S -36
-87.76 To 3659. %
Max Ratio
Min Ratio
n-S036.tendl
n-S036.endfb8.0
Cross Section (barns)
n-S036.endfb8.0/n-S036.tendl
Ratio
Incident Energy (eV)
19
16-S -36

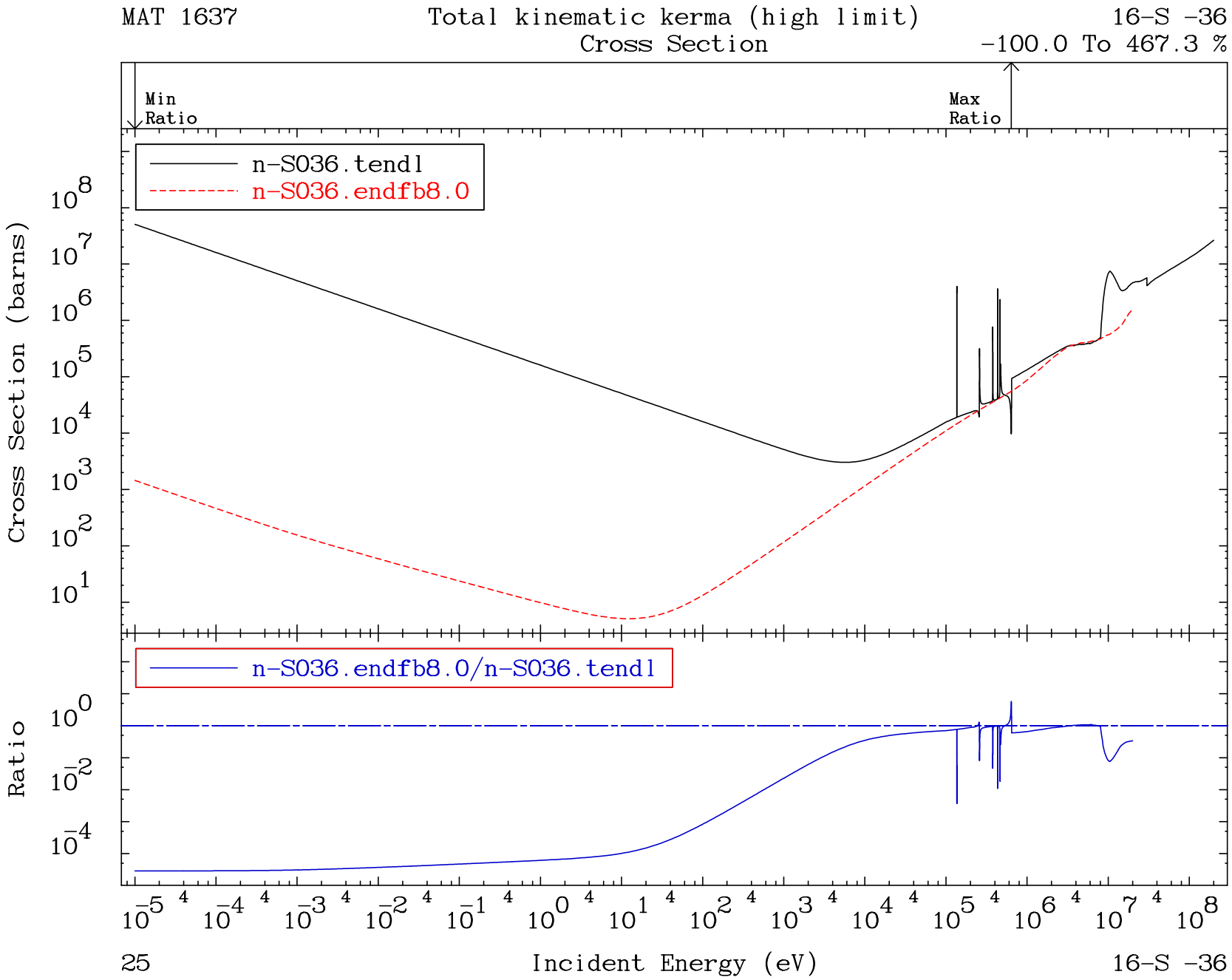

MAT 1637
Kerma non-elastic (all but mt2)
Cross Section
16-S -36
-99.97 To 2874. %
Max Ratio
Min Ratio
n-S036.tendl
n-S036.endfb8.0
Cross Section (barns)
n-S036.endfb8.0/n-S036.tendl
Ratio
Incident Energy (eV)
20
16-S -36

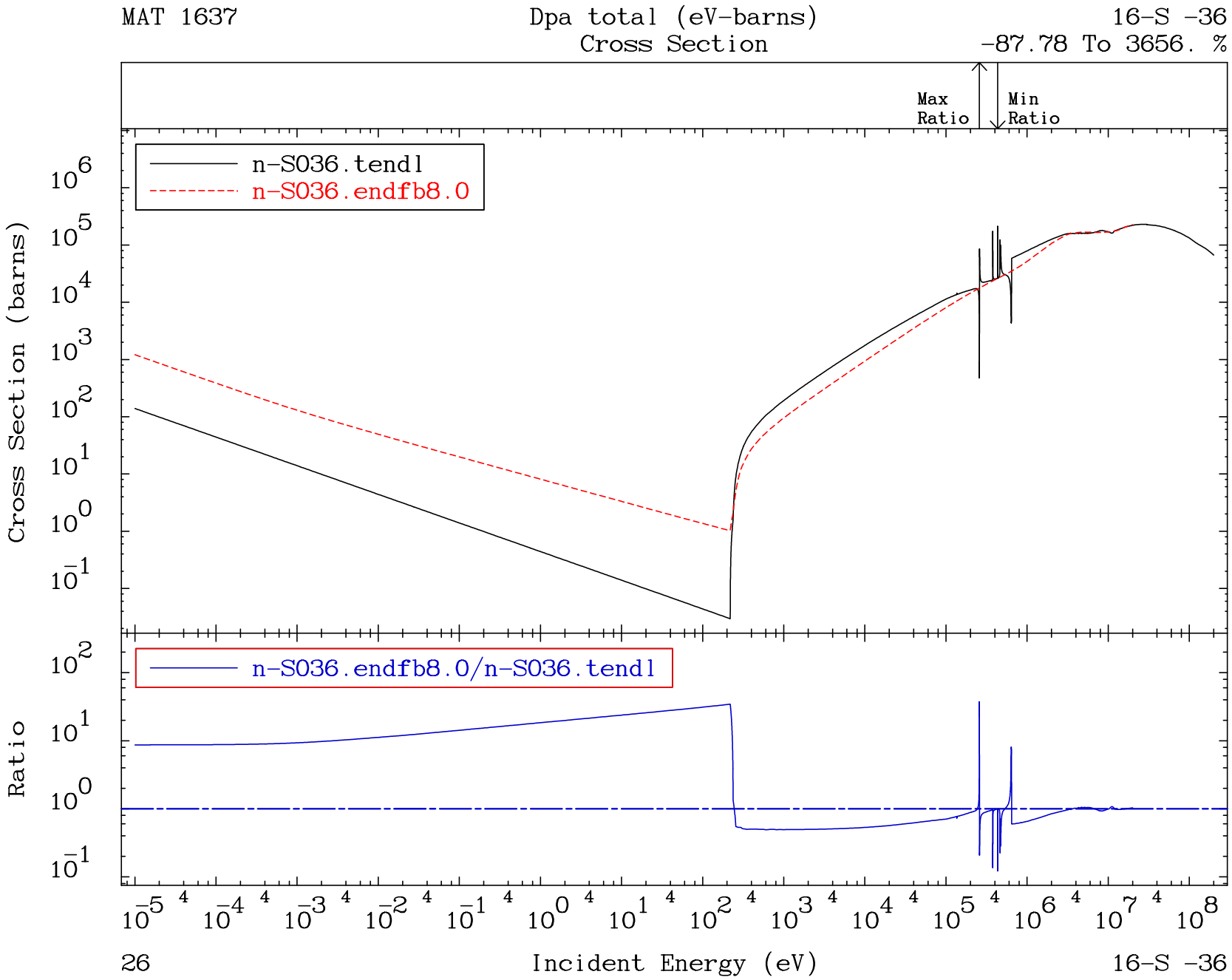

MAT 1637
Kerma inelastic (mt51-91)
Cross Section
16-S -36
-54.25 To 243.1 %
Min Ratio
Max Ratio
n-S036.tendl Threshold 3.4000 MeV
n-S036.endfb8.0 Threshold 3.3875 MeV
Cross Section (barns)
n-S036.endfb8.0/n-S036.tendl
Ratio
Incident Energy (eV)
21
16-S -36

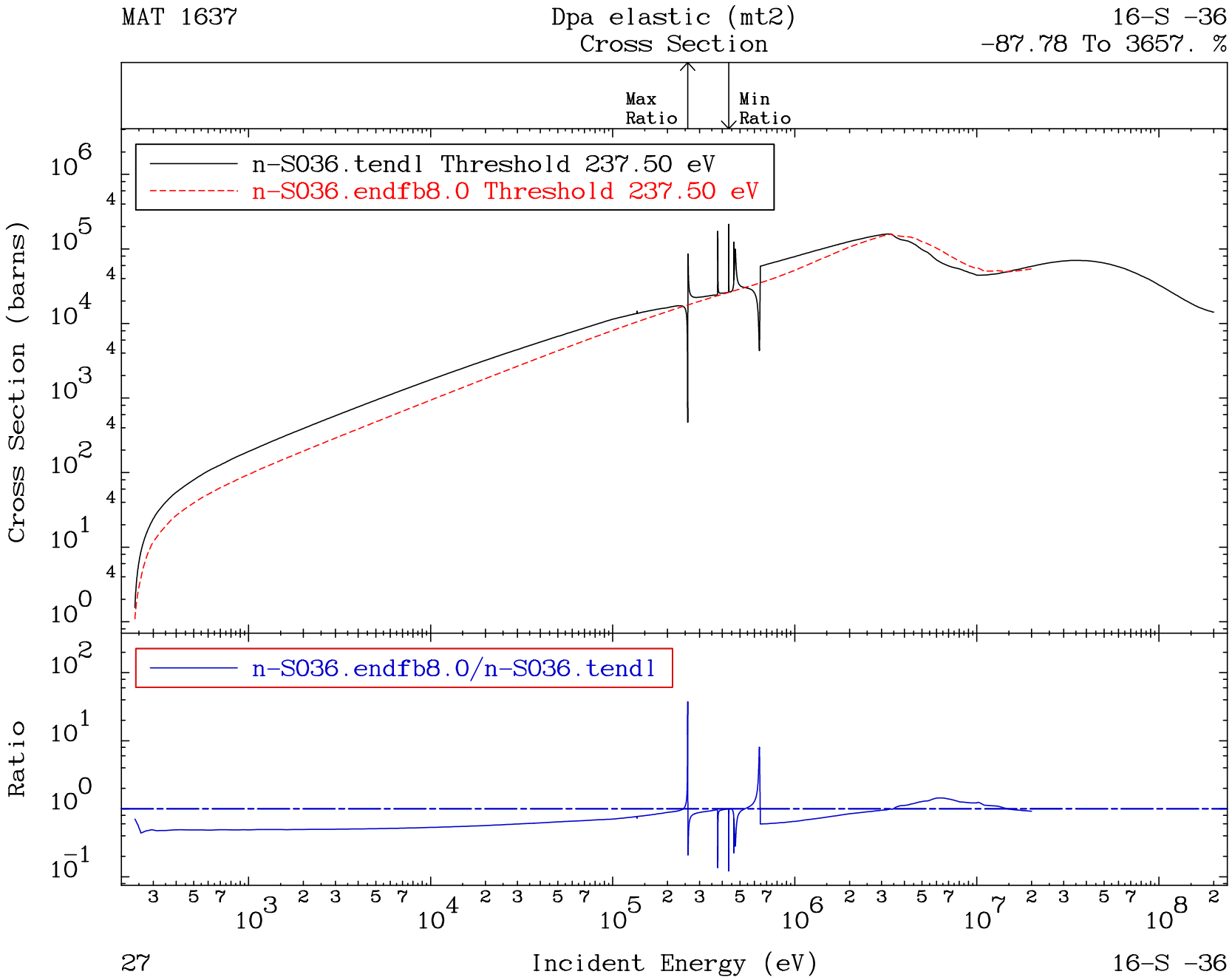

MAT 1637
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
16-S -36
-54.25 To 243.1 %
Min Ratio
Max Ratio
n-S036.tendl
n-S036.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-S036.endfb8.0/n-S036.tendl
Ratio
4.0
3.0
2.0
1.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
22
Incident Energy (eV)
16-S -36

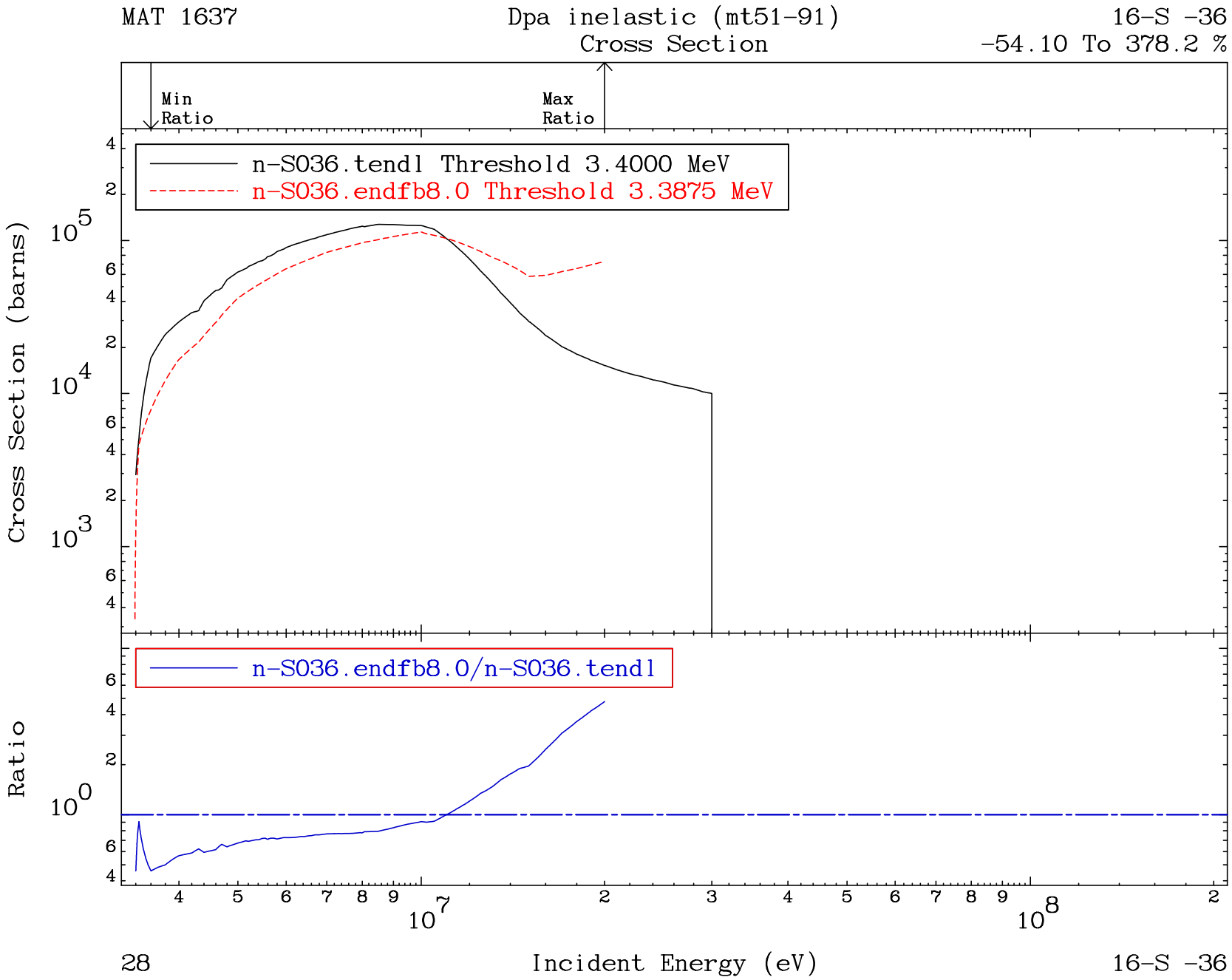

MAT 1637
Kerma capture (mt102)
Cross Section
16-S -36
-100.0 To 2874. %
Max Ratio
Min Ratio
n-S036.tendl
n-S036.endfb8.0
Cross Section (barns)
Ratio
n-S036.endfb8.0/n-S036.tendl
Incident Energy (eV)
23
16-S -36

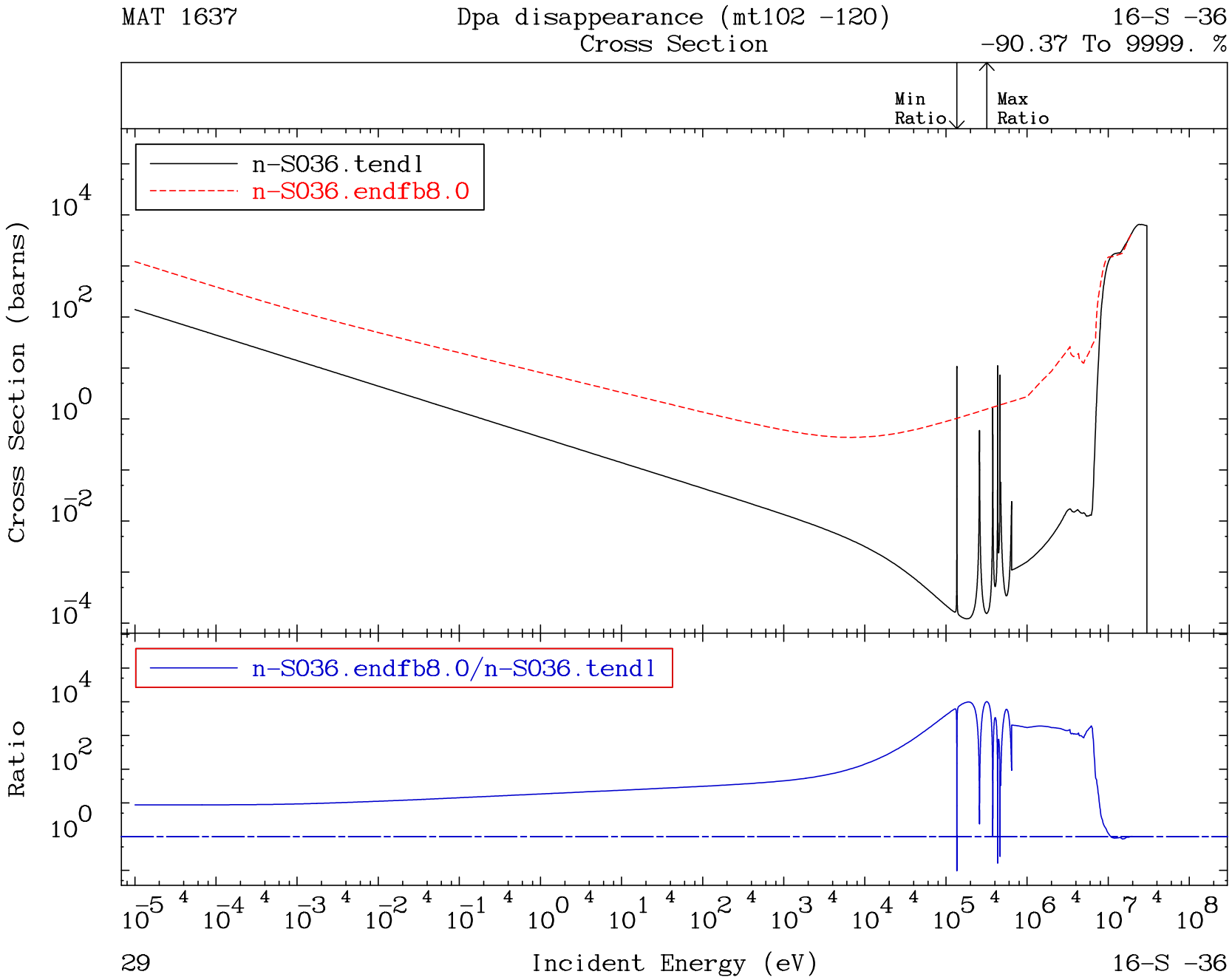

MAT 1637
Total photon (eV-barns)
Cross Section
16-S -36
-100.0 To 2874. %
Max Ratio
Min Ratio
n-S036.tendl
n-S036.endfb8.0
Cross Section (Mega-barns)
60
50
40
30
20
10
0
n-S036.endfb8.0/n-S036.tendl
Ratio
10^2
10^0
10^-2
10^-4
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1
10^2
10^3
10^4
10^5
10^6
10^7
10^8
24
Incident Energy (eV)
16-S -36


MAT 1637
Total kinematic kerma (high limit)
Cross Section
16-S -36
-100.0 To 467.3 %
Min Ratio
Max Ratio
n-S036.tendl
n-S036.endfb8.0
Cross Section (barns)
n-S036.endfb8.0/n-S036.tendl
Ratio
Incident Energy (eV)
25
16-S -36


MAT 1637
Dpa total (eV-barns)
Cross Section
16-S -36
-87.78 To 3656. %
Max Ratio
Min Ratio
n-S036.tendl
n-S036.endfb8.0
Cross Section (barns)
n-S036.endfb8.0/n-S036.tendl
Ratio
Incident Energy (eV)
26
16-S -36


MAT 1637
Dpa elastic (mt2)
Cross Section
16-S -36
-87.78 To 3657. %
Max Ratio
Min Ratio
n-S036.tendl Threshold 237.50 eV
n-S036.endfb8.0 Threshold 237.50 eV
Cross Section (barns)
Ratio
n-S036.endfb8.0/n-S036.tendl
Incident Energy (eV)
27
16-S -36


MAT 1637
Dpa inelastic (mt51-91)
Cross Section
16-S -36
-54.10 To 378.2 %
Min Ratio
Max Ratio
n-S036.tendl Threshold 3.4000 MeV
n-S036.endfb8.0 Threshold 3.3875 MeV
Cross Section (barns)
n-S036.endfb8.0/n-S036.tendl
Ratio
Incident Energy (eV)
28
16-S -36


MAT 1637
Dpa disappearance (mt102 -120)
Cross Section
16-S -36
-90.37 To 9999. %
Min Ratio
Max Ratio
n-S036.tendl
n-S036.endfb8.0
Cross Section (barns)
n-S036.endfb8.0/n-S036.tendl
Ratio
Incident Energy (eV)
29
16-S -36