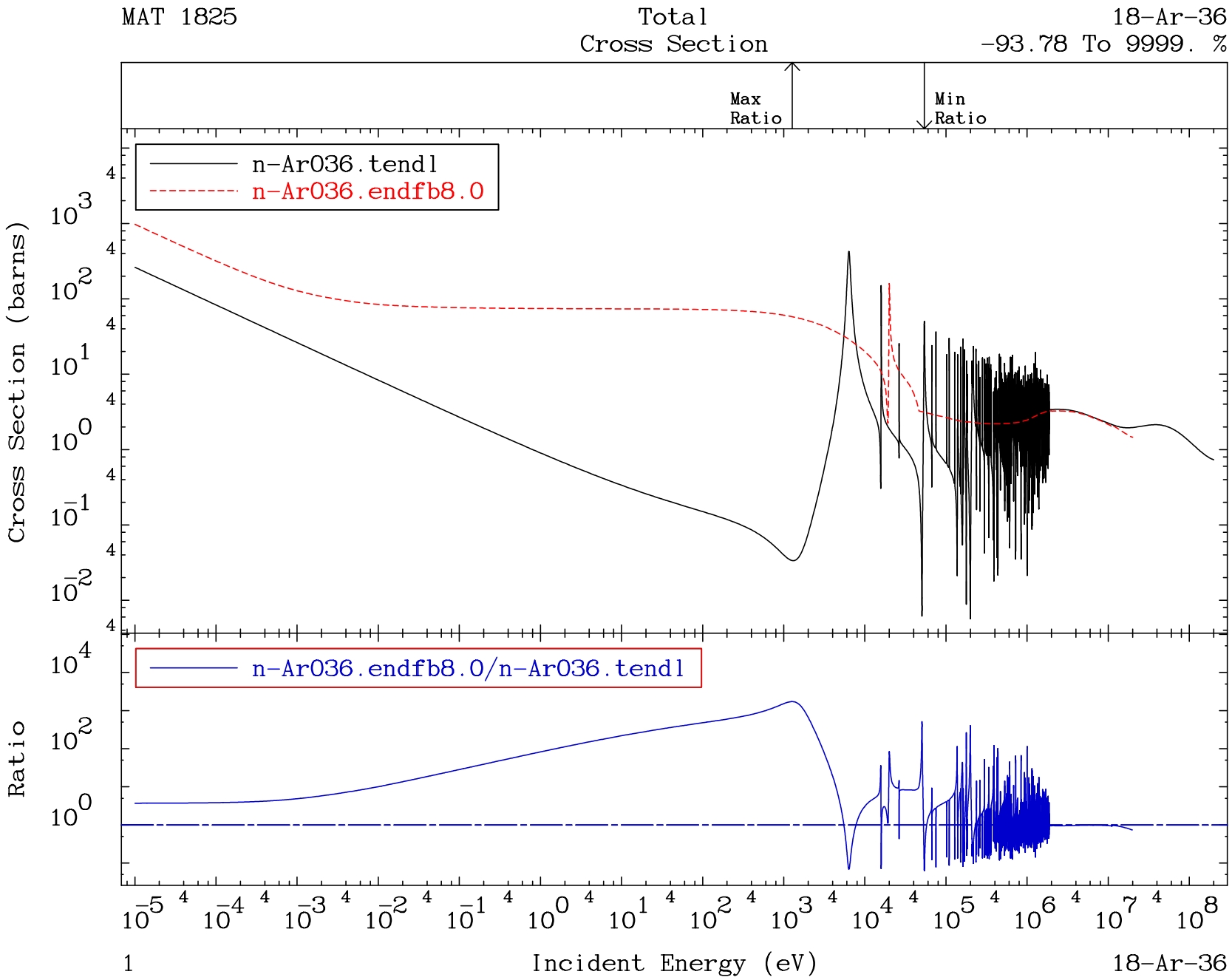
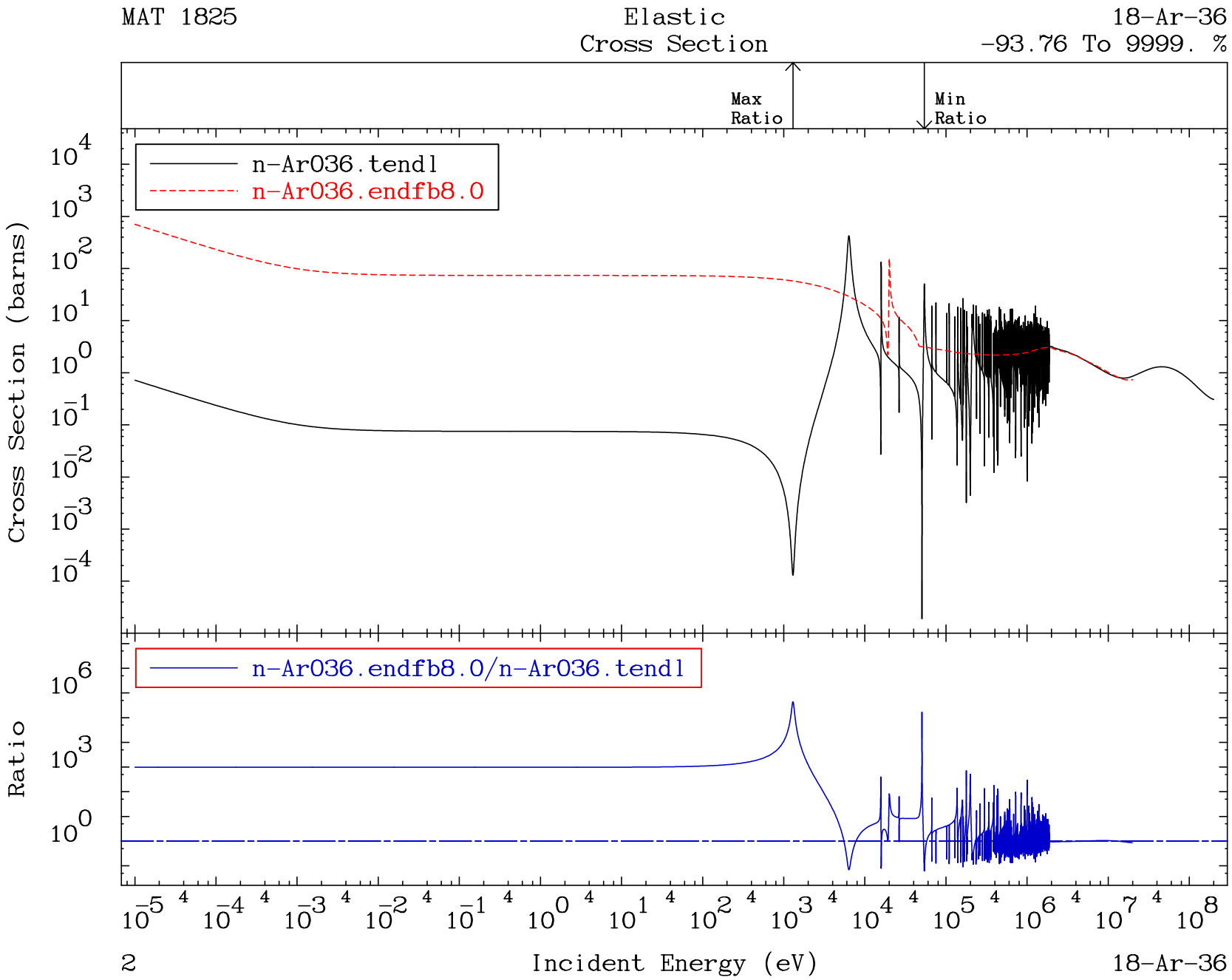
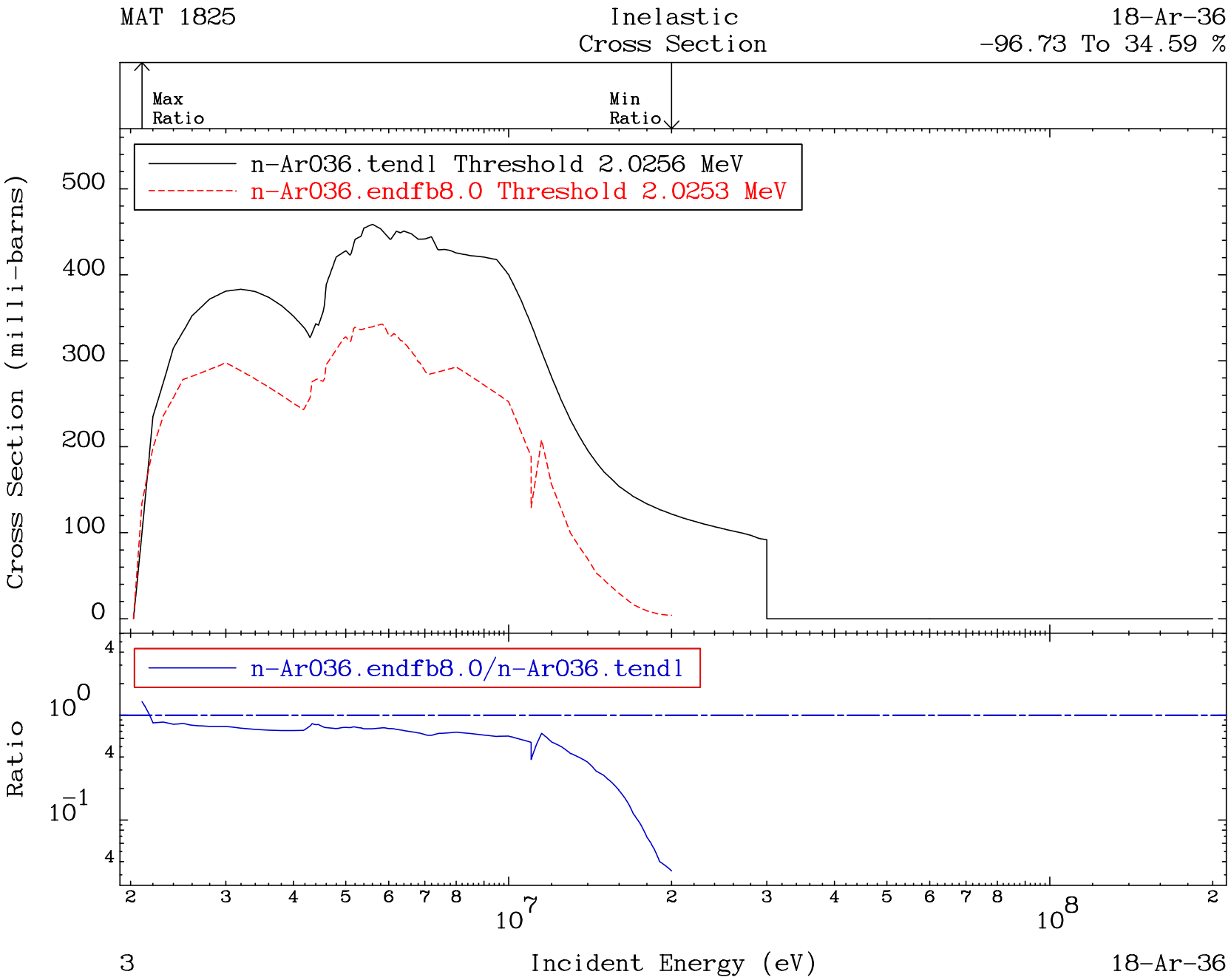
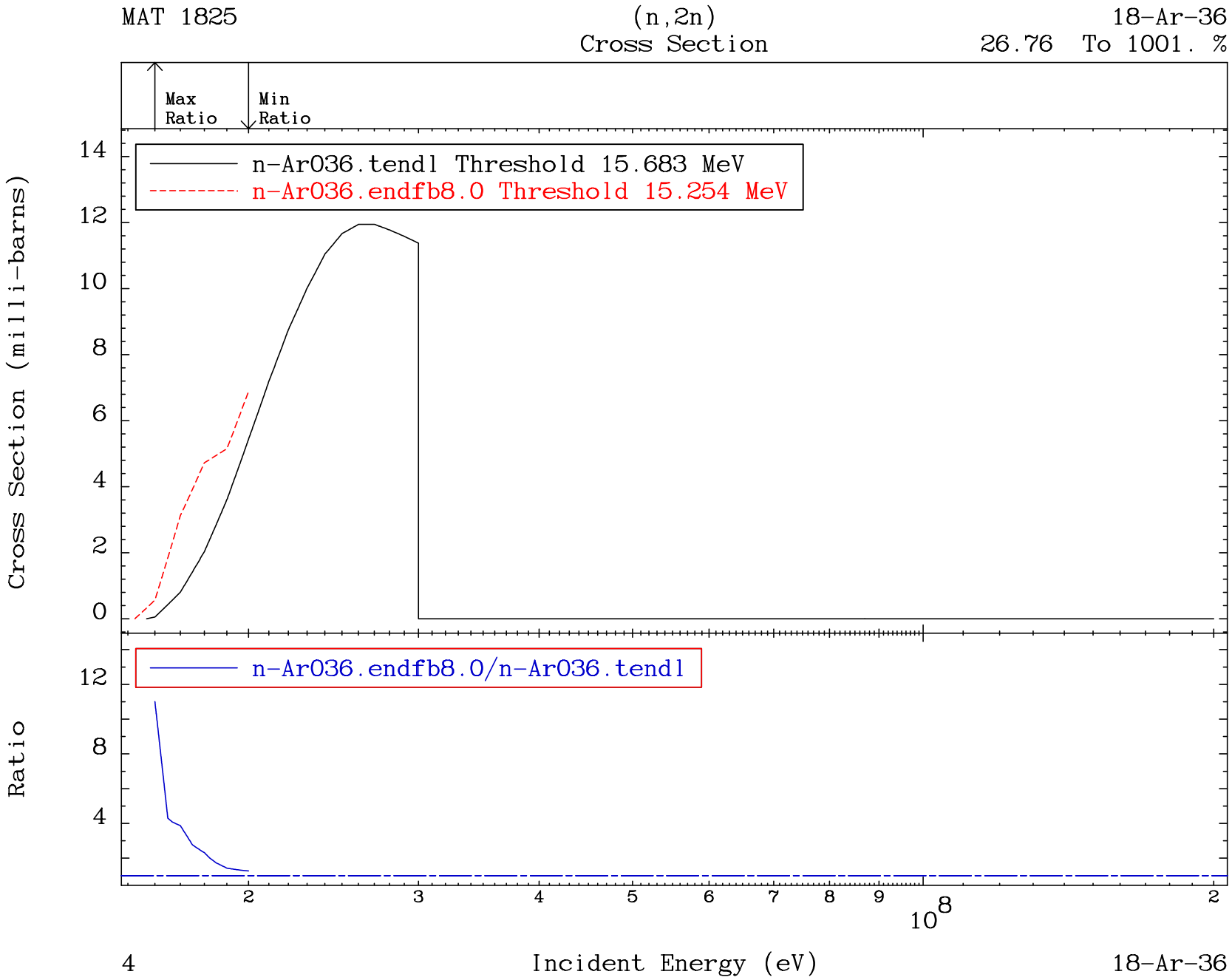
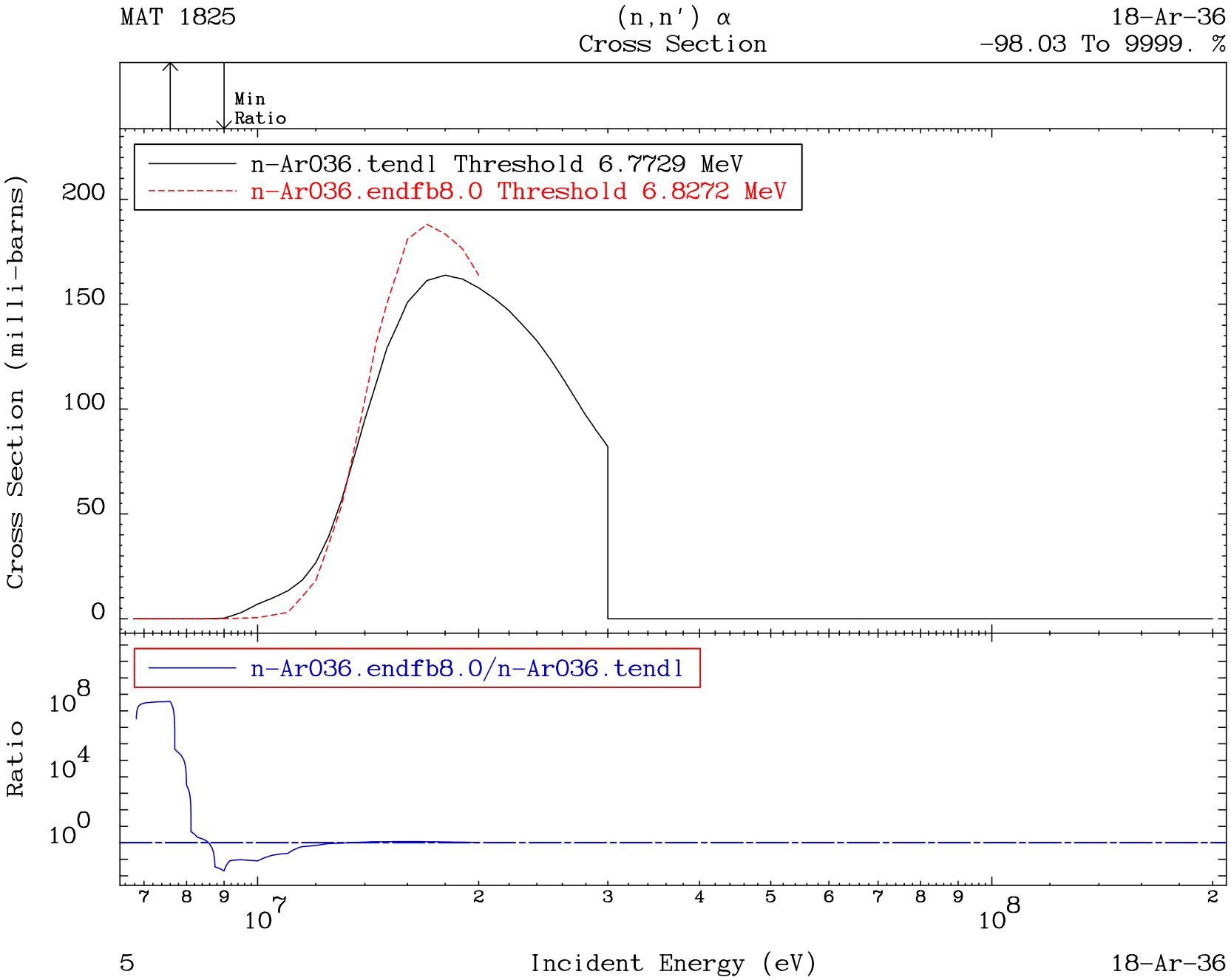
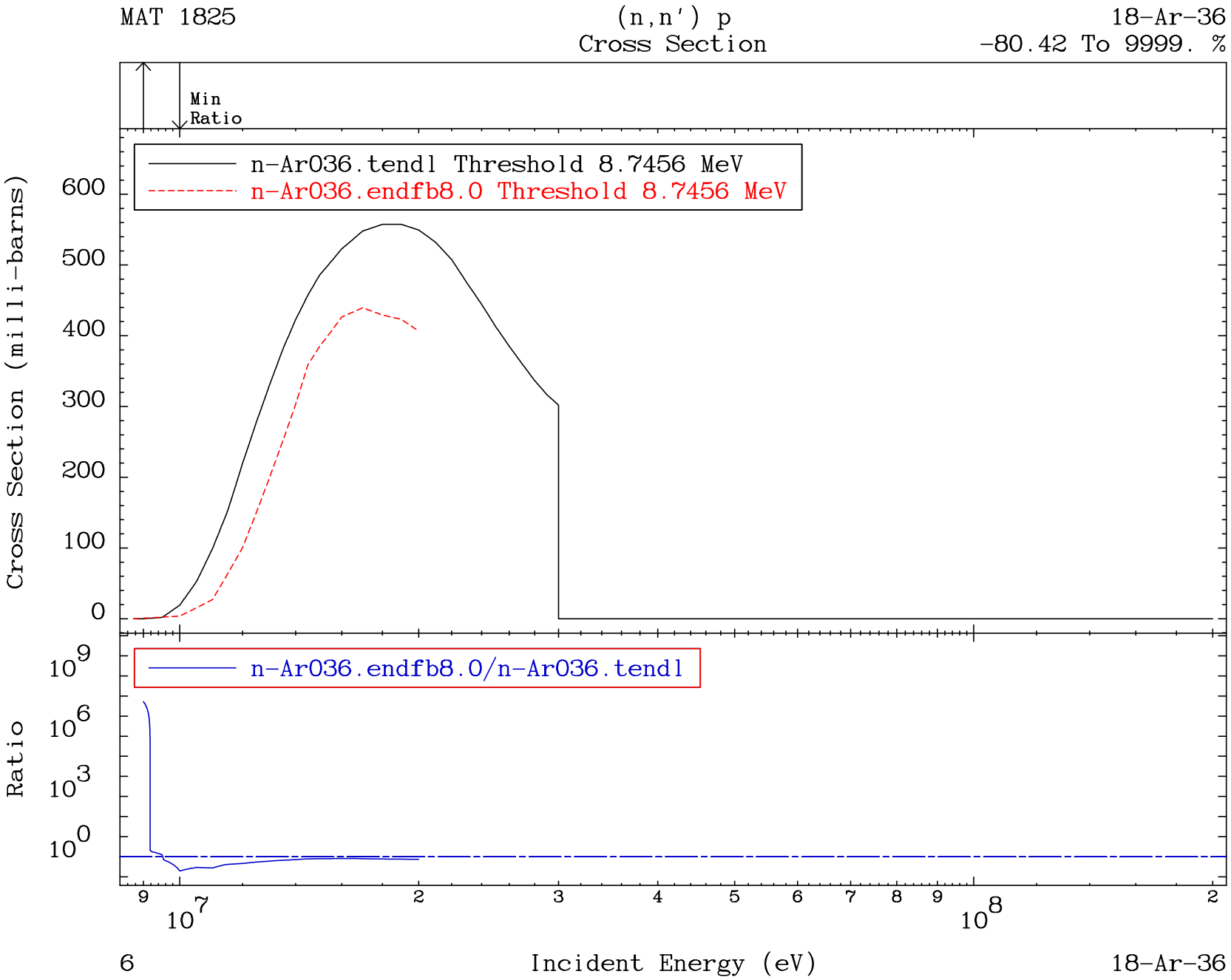

MAT 1825
Total
Cross Section
18-Ar-36
-93.78 To 9999. %
Max
Ratio
Min
Ratio
n-Ar036.tendl
n-Ar036.endfb8.0
Cross Section (barns)
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
Incident Energy (eV)
1
18-Ar-36

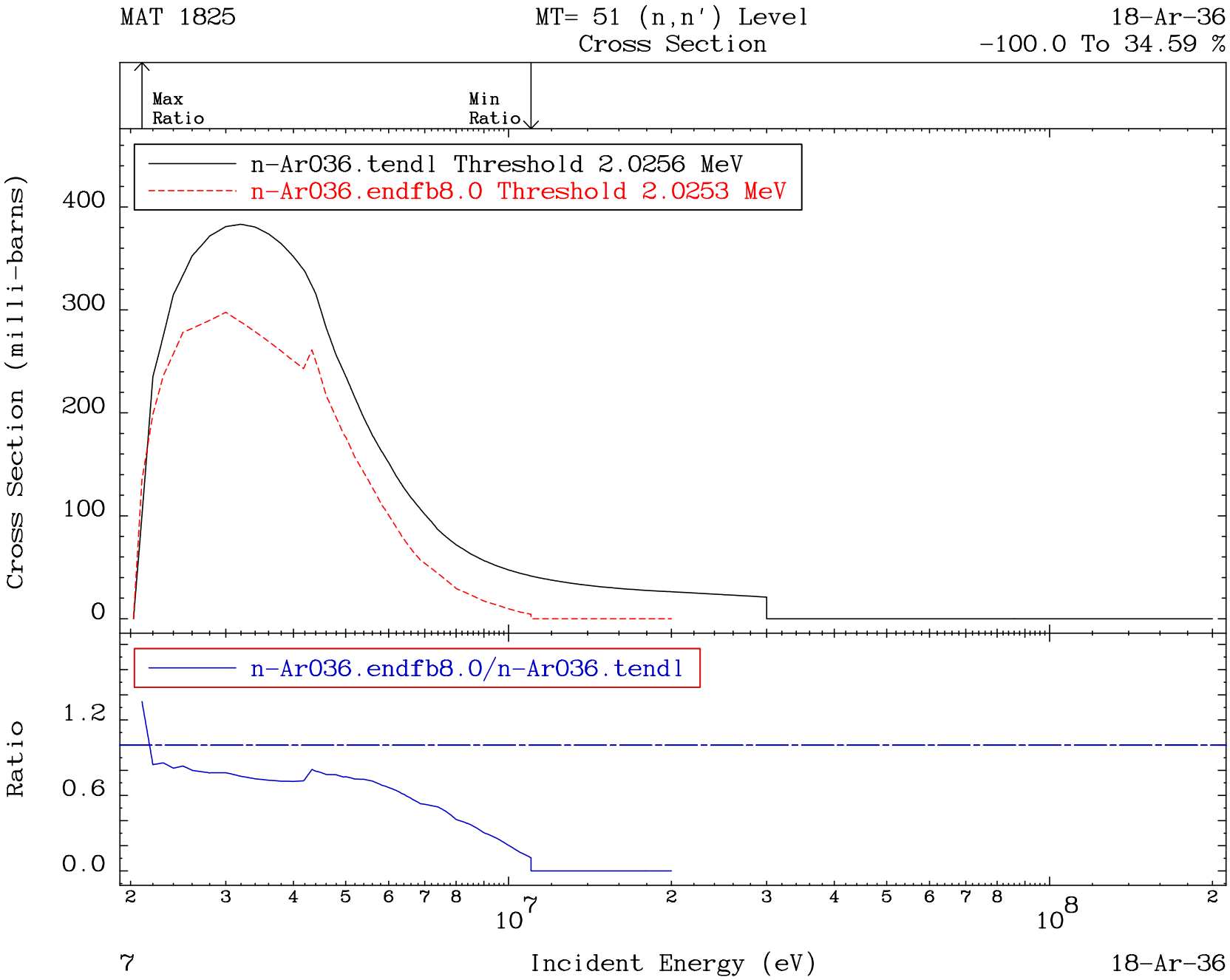

MAT 1825
Elastic
Cross Section
18-Ar-36
-93.76 To 9999. %
Max Ratio
Min Ratio
n-Ar036.tendl
n-Ar036.endfb8.0
Cross Section (barns)
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
Incident Energy (eV)
2
18-Ar-36

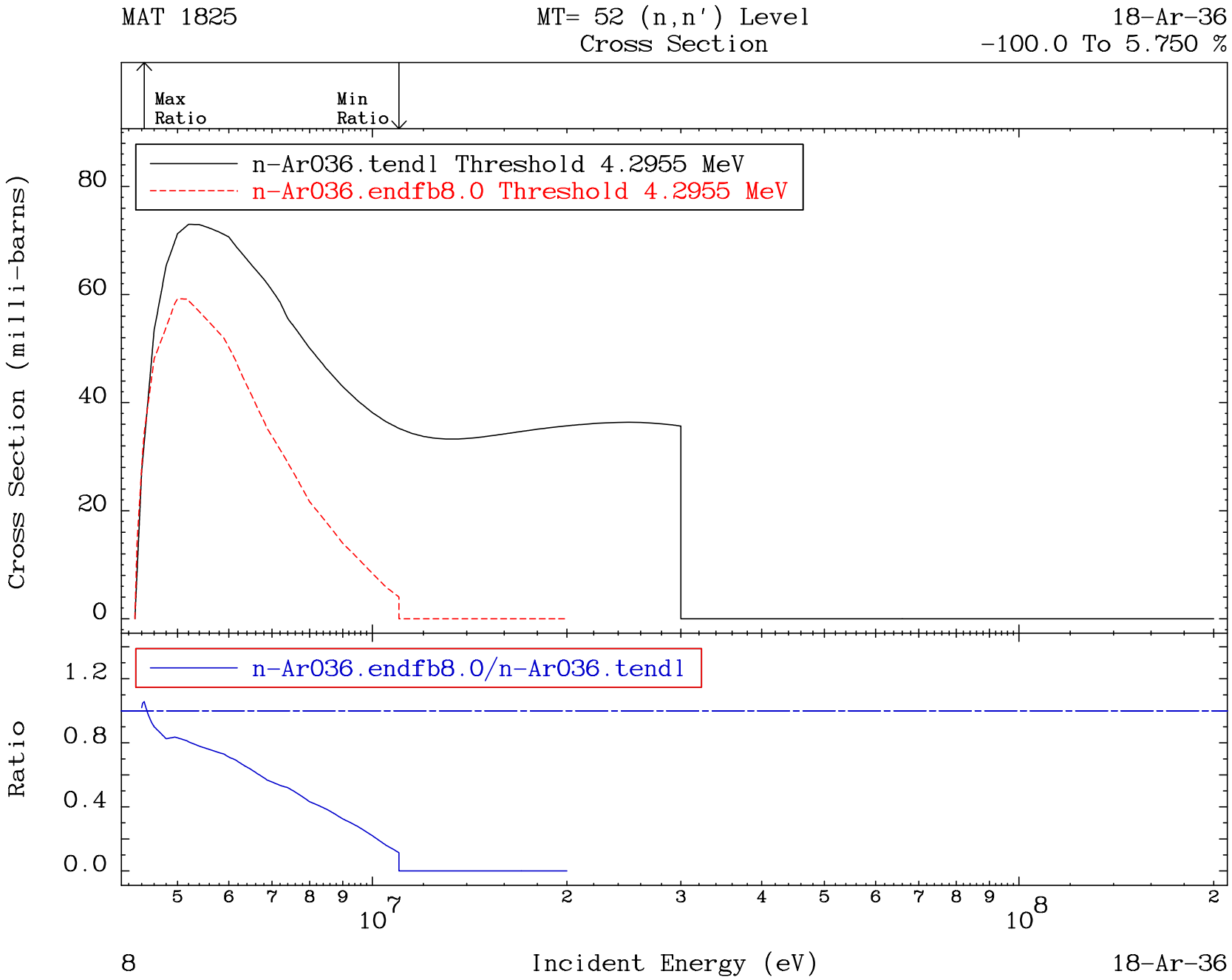

MAT 1825
Inelastic
Cross Section
18-Ar-36
-96.73 To 34.59 %
Max
Ratio
Min
Ratio
n-Ar036.tendl Threshold 2.0256 MeV
n-Ar036.endfb8.0 Threshold 2.0253 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
10^0
10^-1
2
3
4
5
6
7
8
10^7
10^8
3
Incident Energy (eV)
18-Ar-36

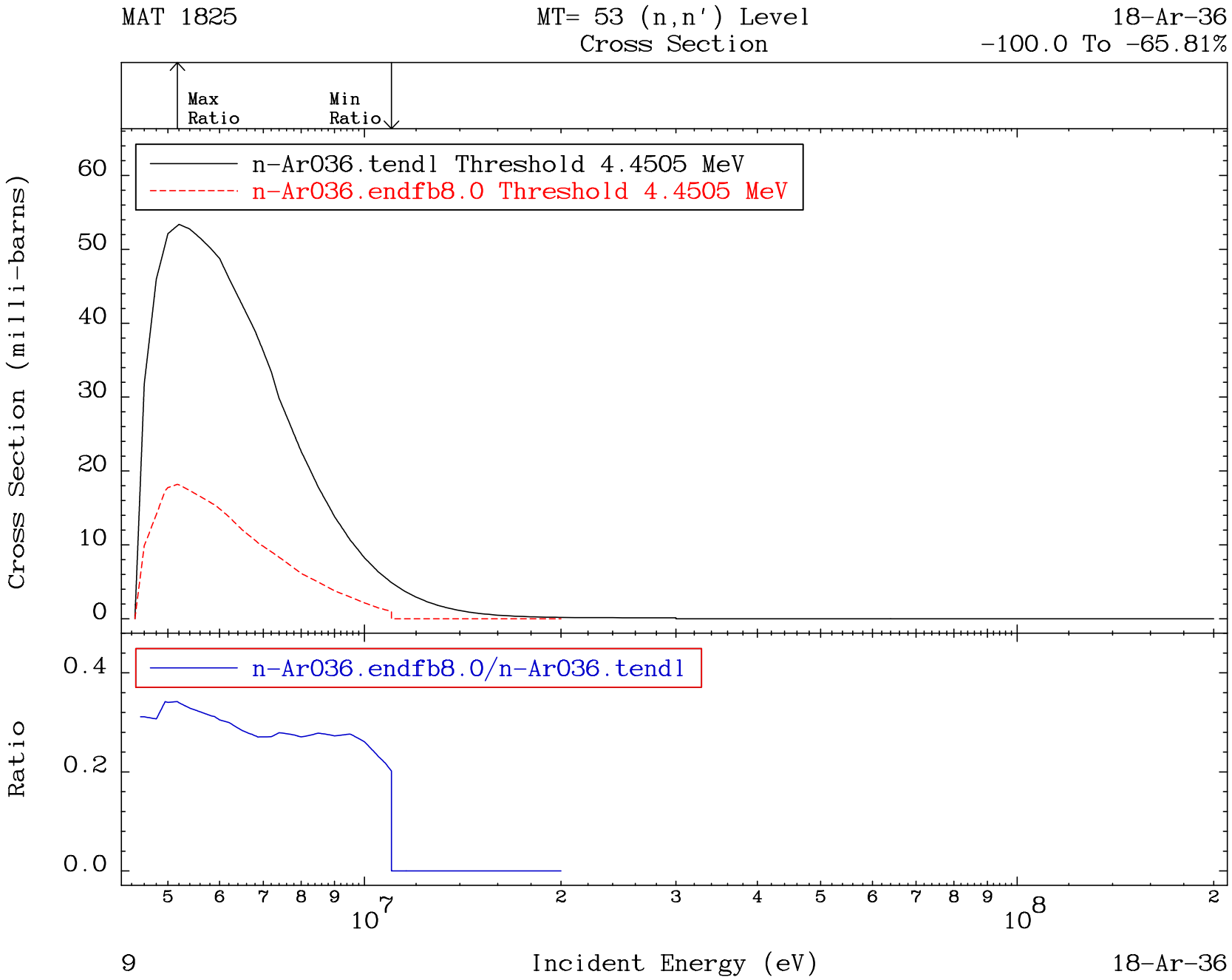

MAT 1825
(n,2n)
Cross Section
18-Ar-36
26.76 To 1001. %
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 15.683 MeV
n-Ar036.endfb8.0 Threshold 15.254 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
4
8
12
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
18-Ar-36

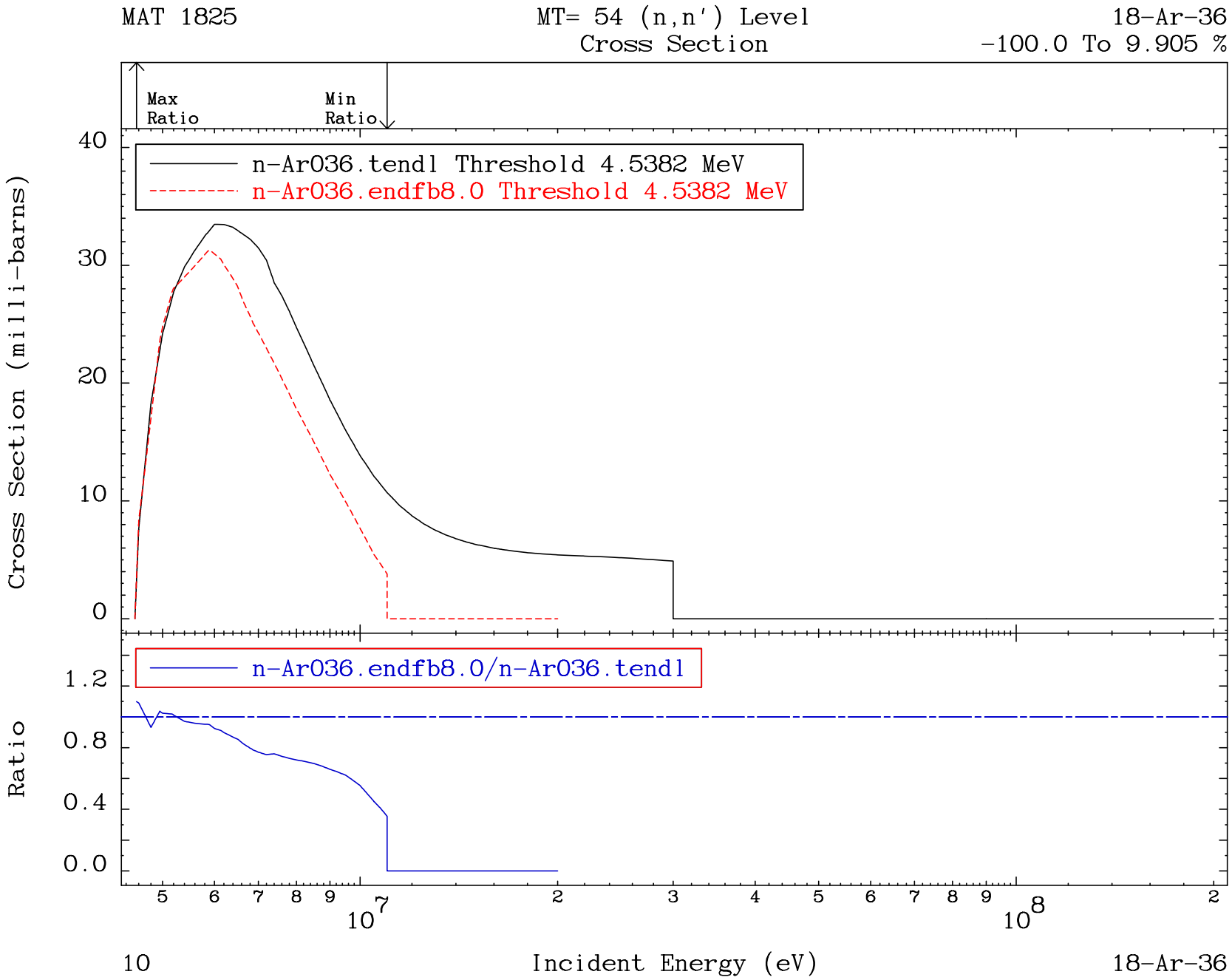

MAT 1825
(n,n') α
Cross Section
18-Ar-36
-98.03 To 9999. %
Min
Ratio
n-Ar036.tendl Threshold 6.7729 MeV
n-Ar036.endfb8.0 Threshold 6.8272 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
10^8
10^4
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
18-Ar-36

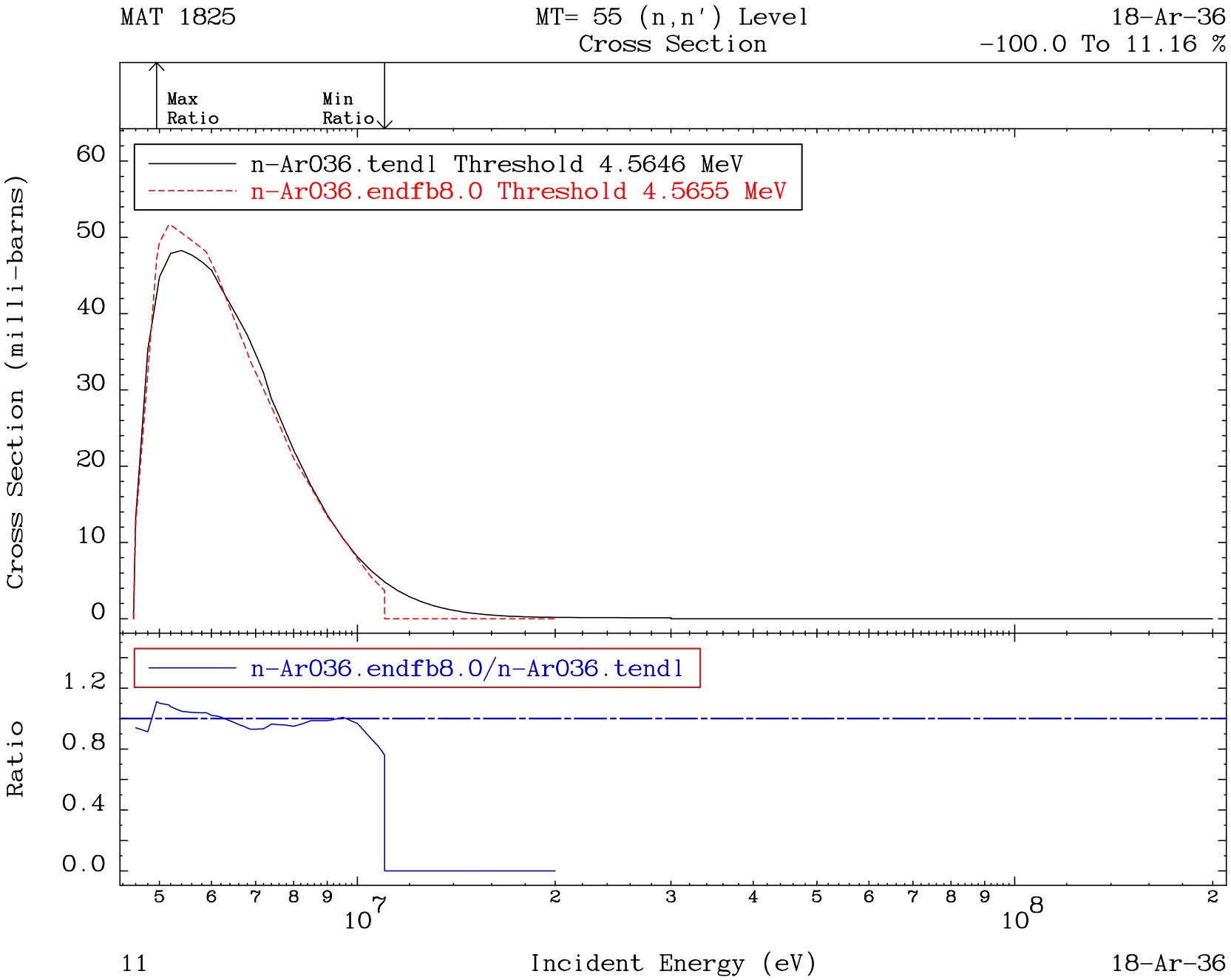

MAT 1825
(n,n') p
Cross Section
18-Ar-36
-80.42 To 9999. %
Min
Ratio
n-Ar036.tendl Threshold 8.7456 MeV
n-Ar036.endfb8.0 Threshold 8.7456 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
10^9
10^6
10^3
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
18-Ar-36

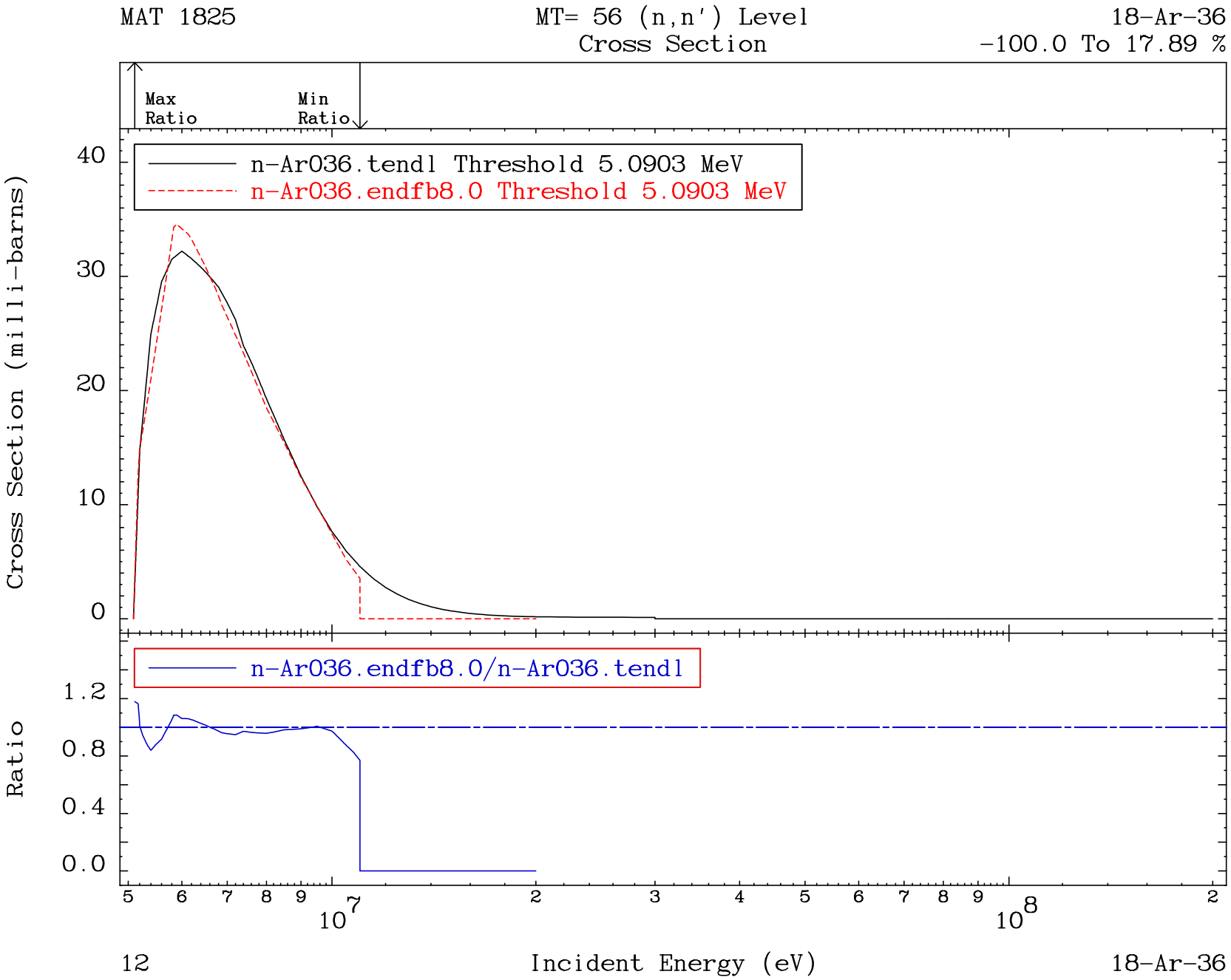

MAT 1825
MT= 51 (n,n') Level
Cross Section
18-Ar-36
-100.0 To 34.59 %
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 2.0256 MeV
n-Ar036.endfb8.0 Threshold 2.0253 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
1.2
0.6
0.0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
7
Incident Energy (eV)
18-Ar-36

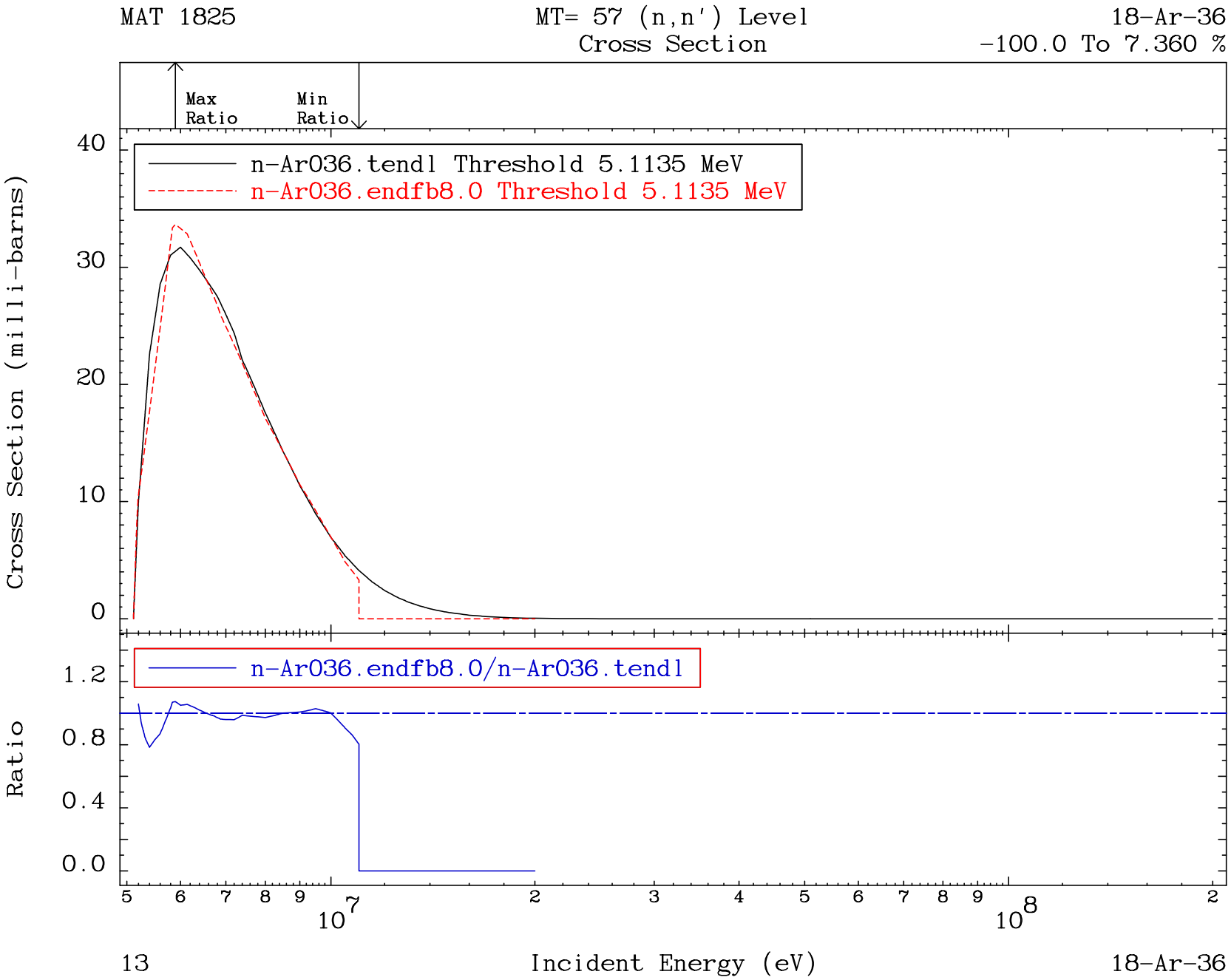

MAT 1825
MT= 52 (n,n') Level
Cross Section
18-Ar-36
-100.0 To 5.750 %
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 4.2955 MeV
n-Ar036.endfb8.0 Threshold 4.2955 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
1.2
0.8
0.4
0.0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
8
Incident Energy (eV)
18-Ar-36

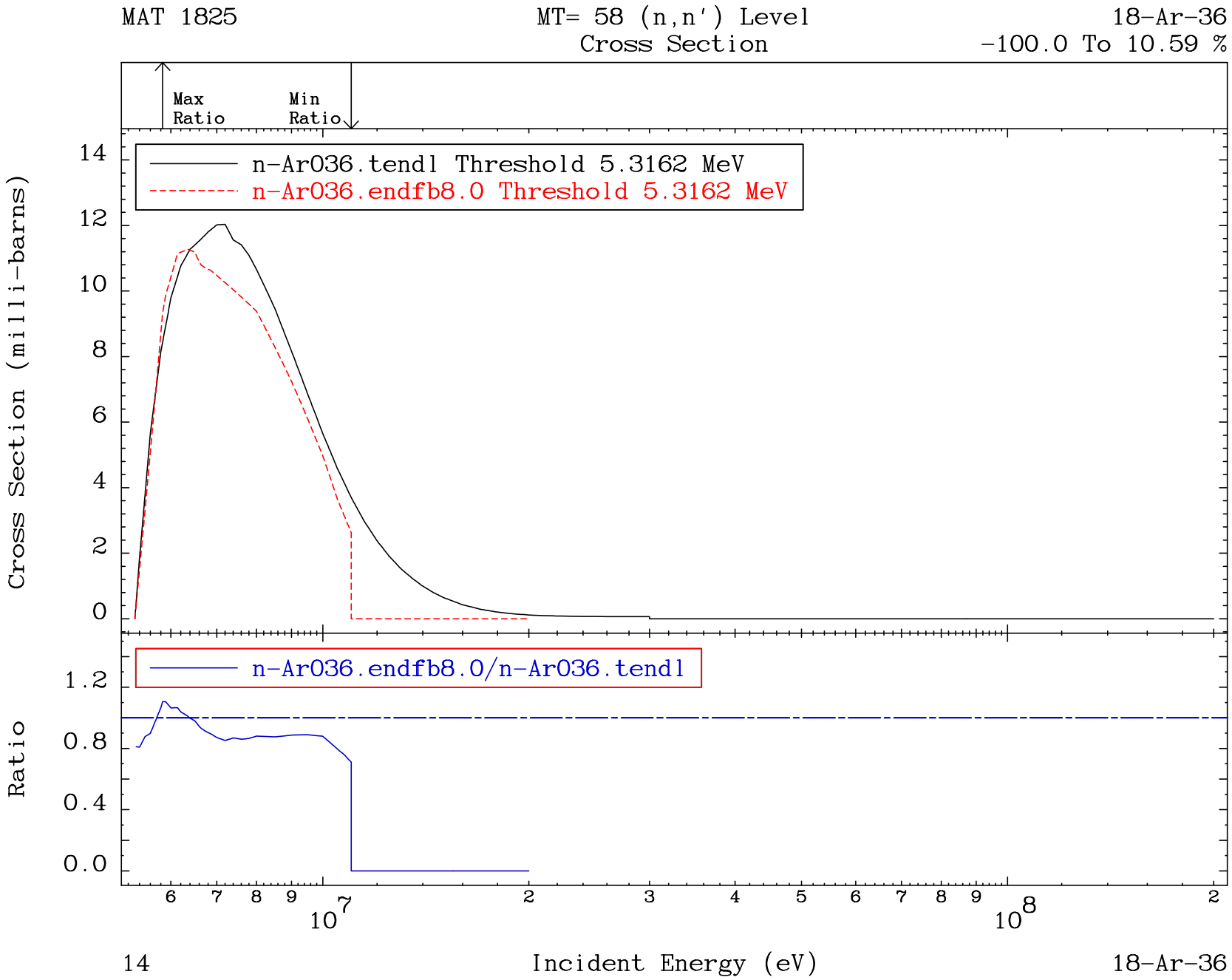

MAT 1825
MT= 53 (n,n') Level
Cross Section
18-Ar-36
-100.0 To -65.81%
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 4.4505 MeV
n-Ar036.endfb8.0 Threshold 4.4505 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
0.4
0.2
0.0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
9
Incident Energy (eV)
18-Ar-36

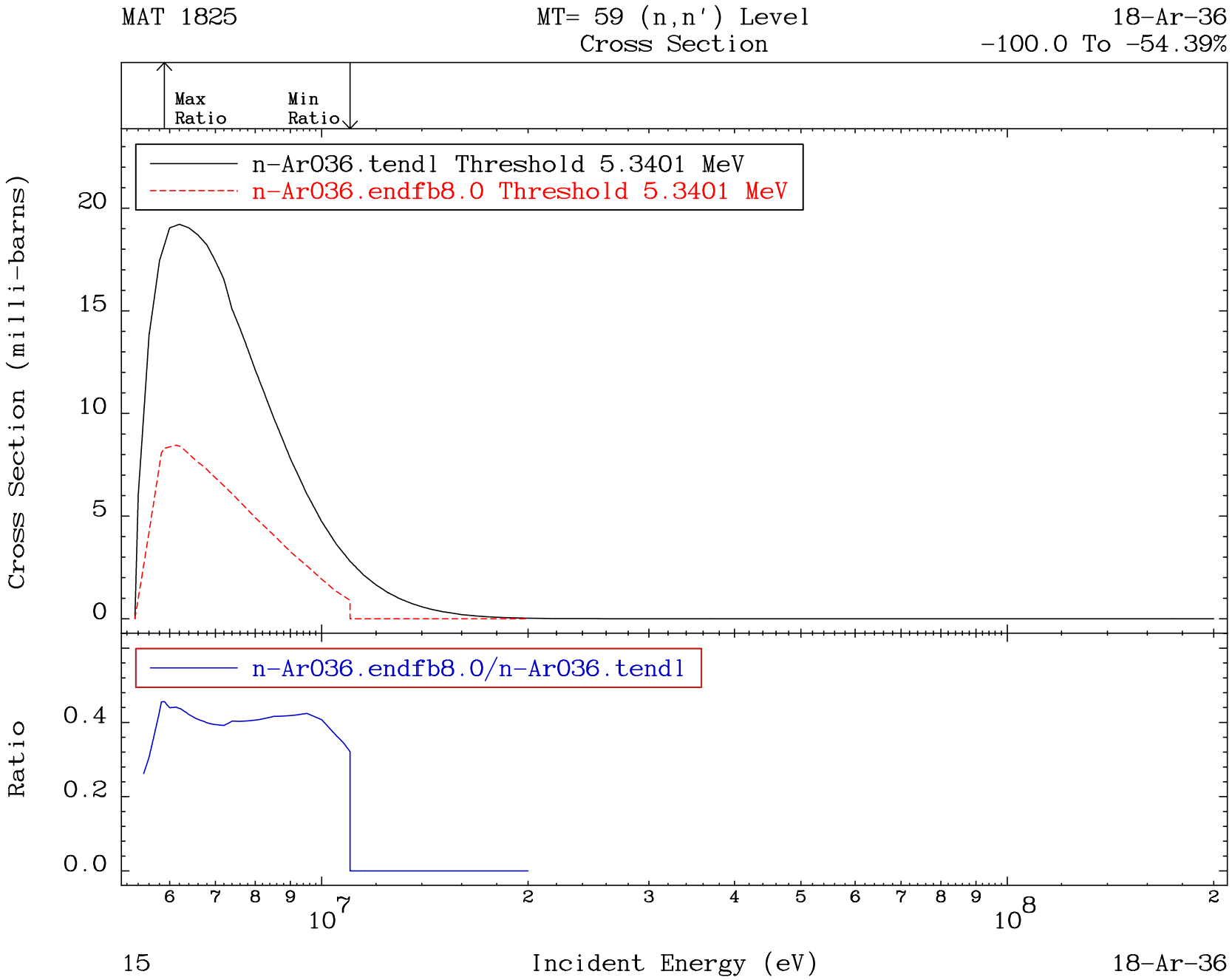

MAT 1825
MT= 54 (n,n') Level
Cross Section
18-Ar-36
-100.0 To 9.905 %
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 4.5382 MeV
n-Ar036.endfb8.0 Threshold 4.5382 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
1.2
0.8
0.4
0.0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
18-Ar-36

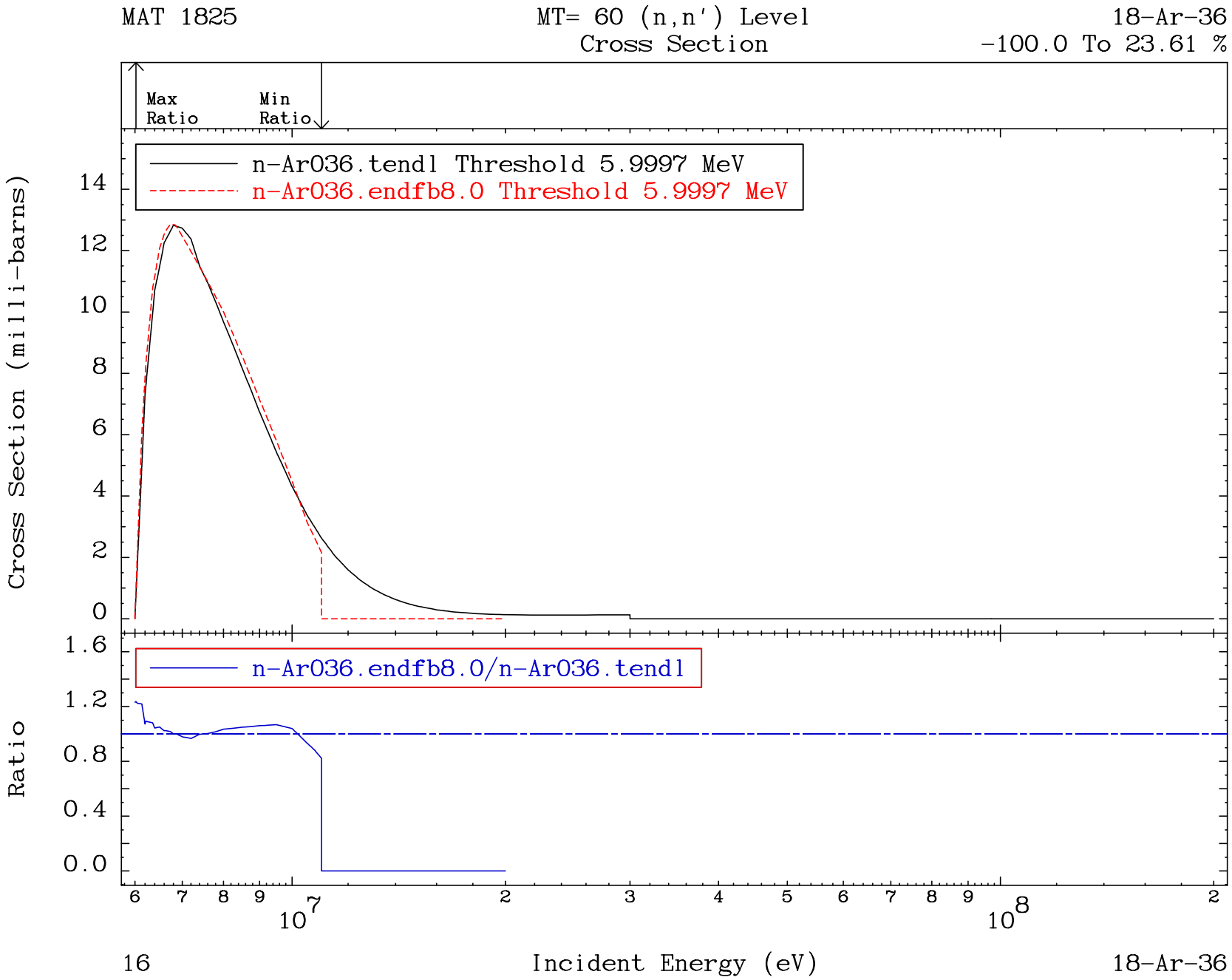

MAT 1825
MT= 55 (n,n') Level
Cross Section
18-Ar-36
-100.0 To 11.16 %
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 4.5646 MeV
n-Ar036.endfb8.0 Threshold 4.5655 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
1.2
0.8
0.4
0.0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
18-Ar-36

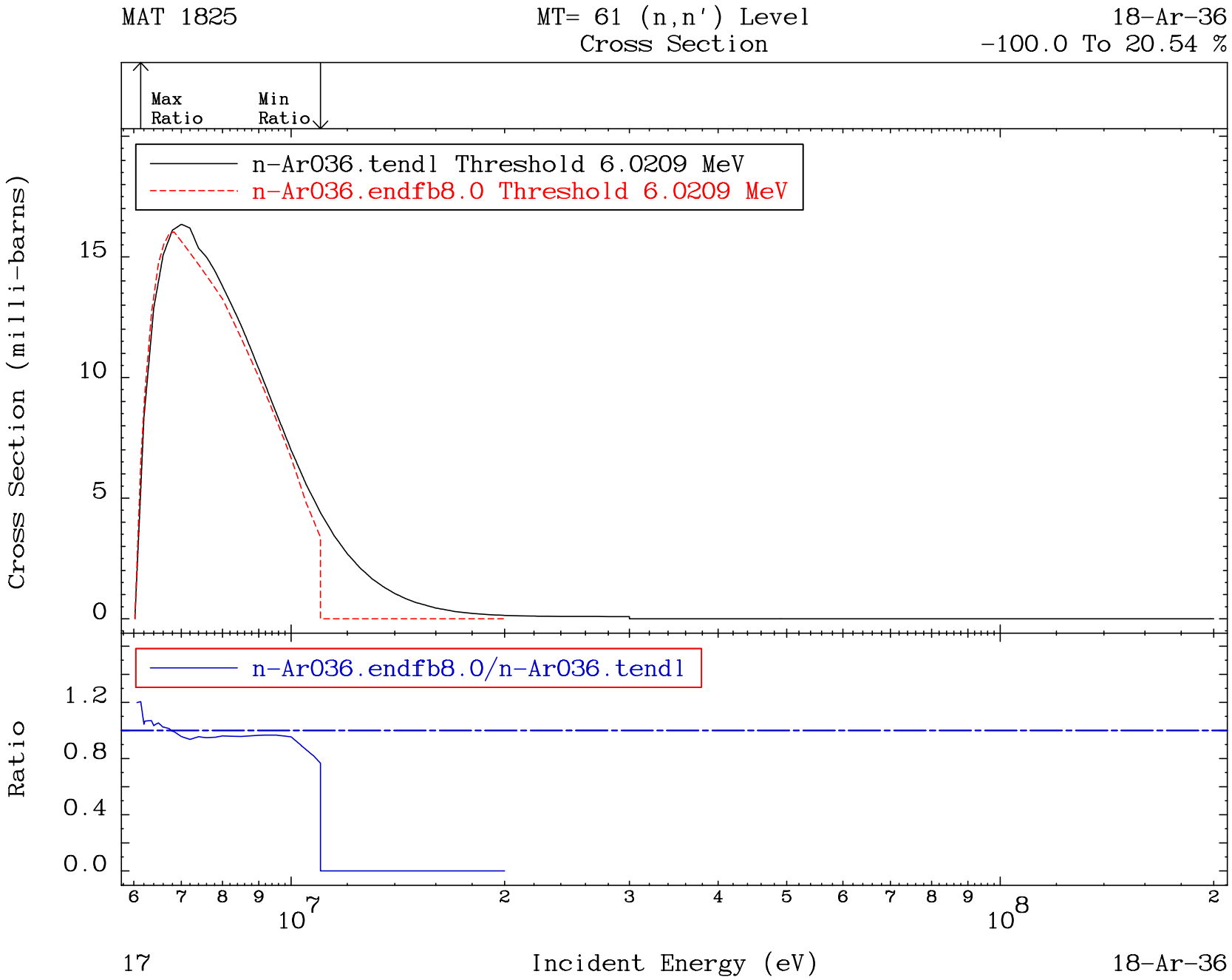

MAT 1825
MT= 56 (n,n') Level
Cross Section
18-Ar-36
-100.0 To 17.89 %
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 5.0903 MeV
n-Ar036.endfb8.0 Threshold 5.0903 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
1.2
0.8
0.4
0.0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
12
Incident Energy (eV)
18-Ar-36

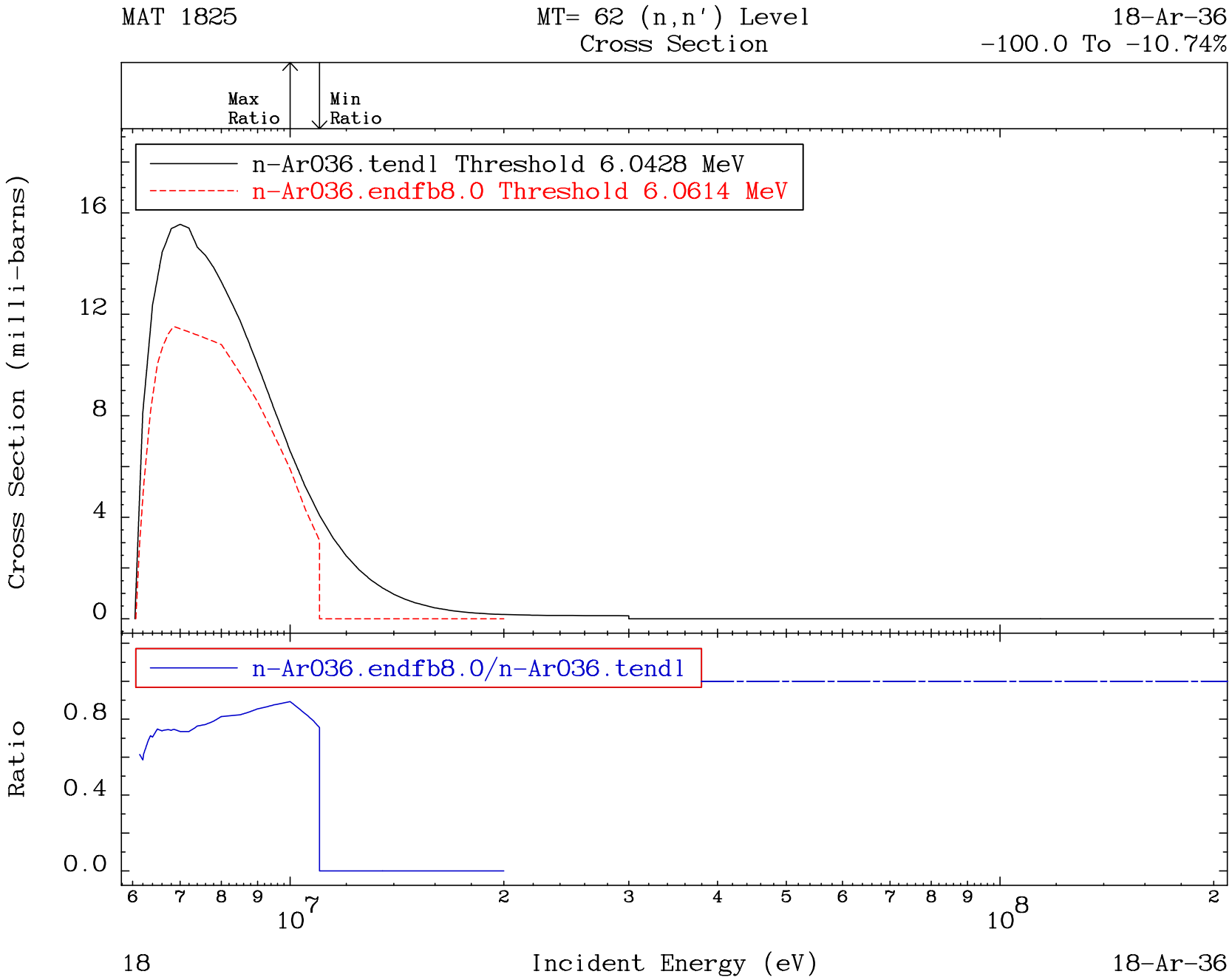

MAT 1825
MT= 57 (n,n') Level
Cross Section
18-Ar-36
-100.0 To 7.360 %
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 5.1135 MeV
n-Ar036.endfb8.0 Threshold 5.1135 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
1.2
0.8
0.4
0.0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
13
Incident Energy (eV)
18-Ar-36

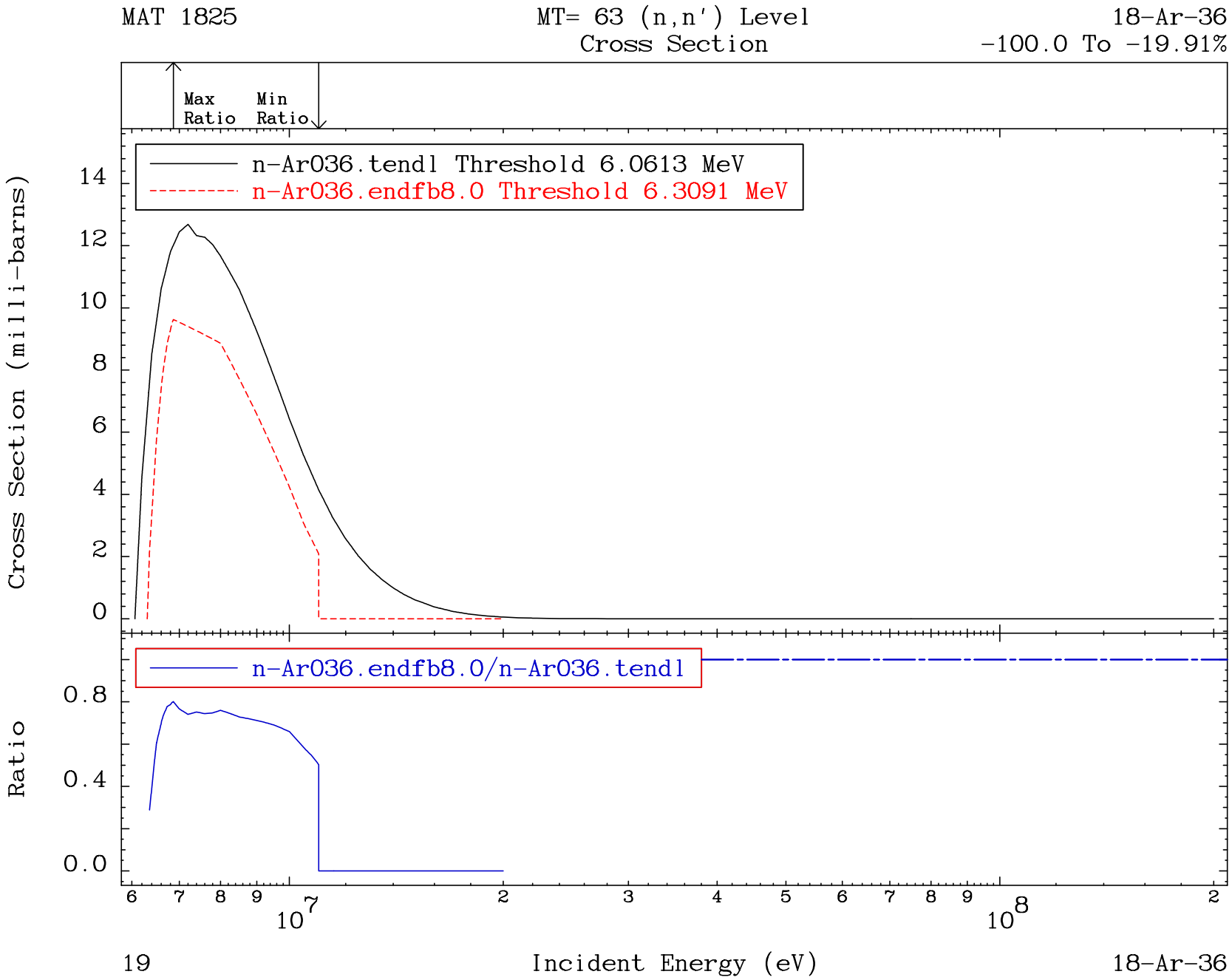

MAT 1825
MT= 58 (n,n') Level
Cross Section
18-Ar-36
-100.0 To 10.59 %
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 5.3162 MeV
n-Ar036.endfb8.0 Threshold 5.3162 MeV
Cross Section (milli-barns)
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
Incident Energy (eV)
14
18-Ar-36

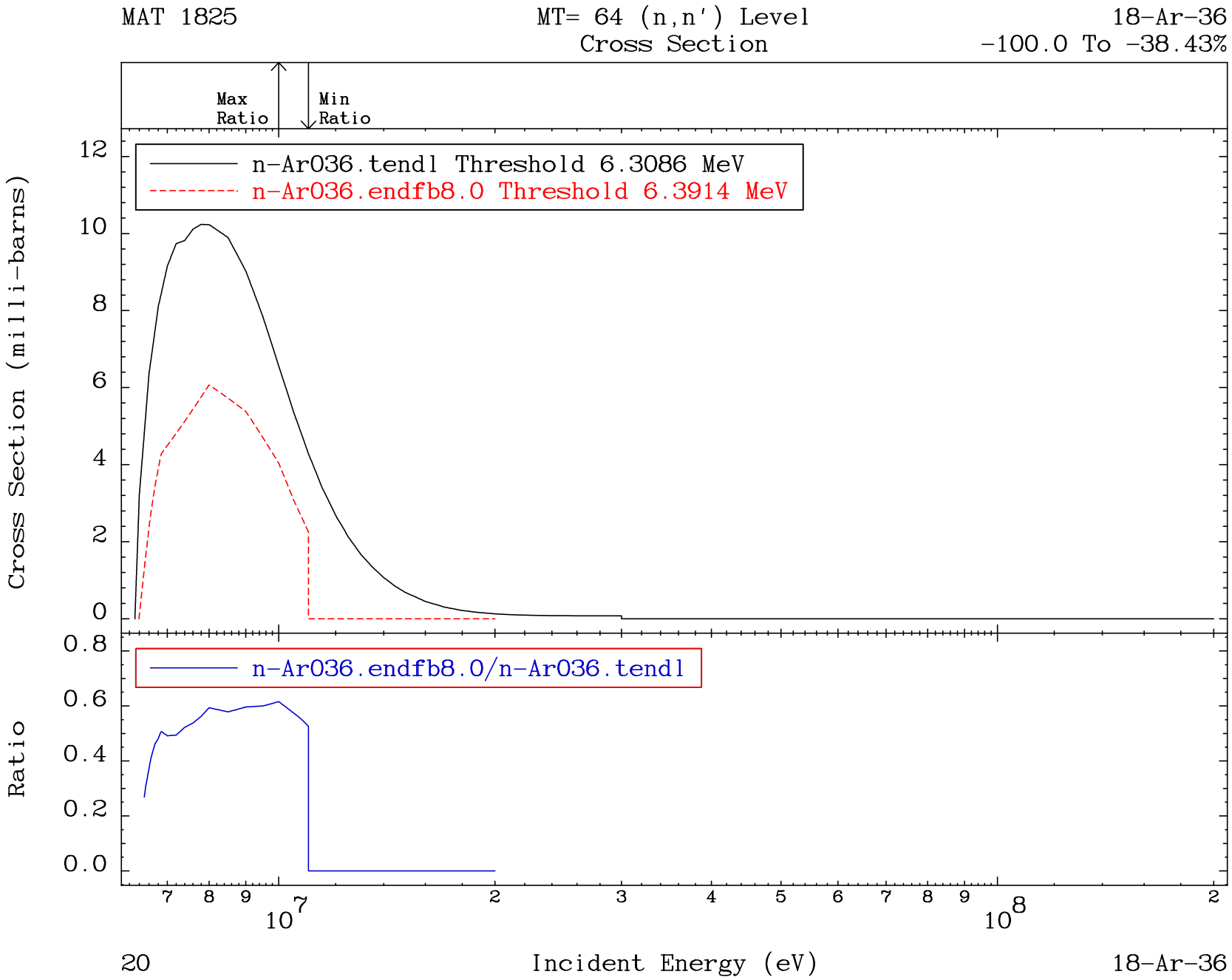

MAT 1825
MT= 59 (n,n') Level
Cross Section
18-Ar-36
-100.0 To -54.39%
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 5.3401 MeV
n-Ar036.endfb8.0 Threshold 5.3401 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
0.4
0.2
0.0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
15
Incident Energy (eV)
18-Ar-36

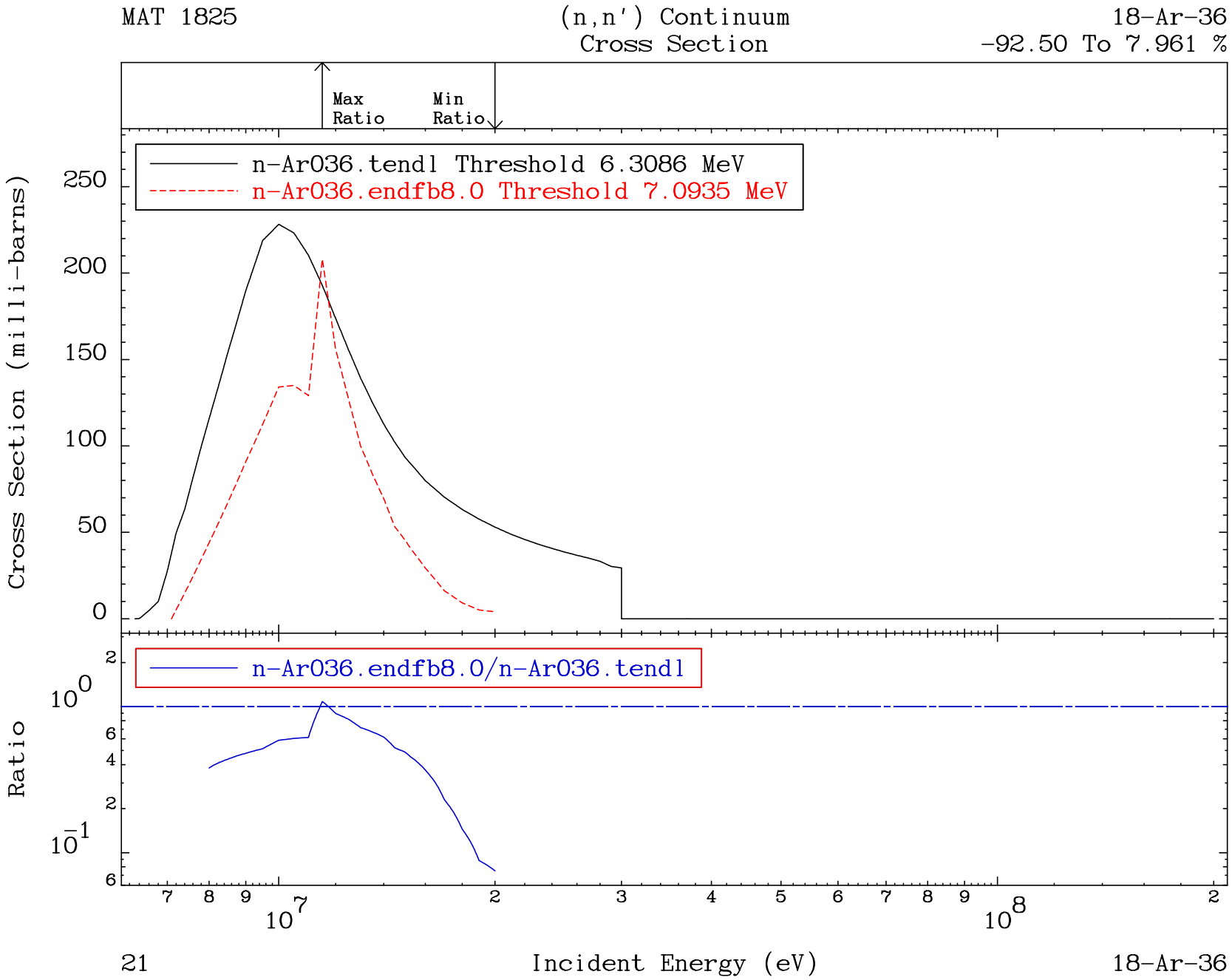

MAT 1825
MT= 60 (n,n') Level
Cross Section
18-Ar-36
-100.0 To 23.61 %
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 5.9997 MeV
n-Ar036.endfb8.0 Threshold 5.9997 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
0.0
0.4
0.8
1.2
1.6
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
16
Incident Energy (eV)
18-Ar-36

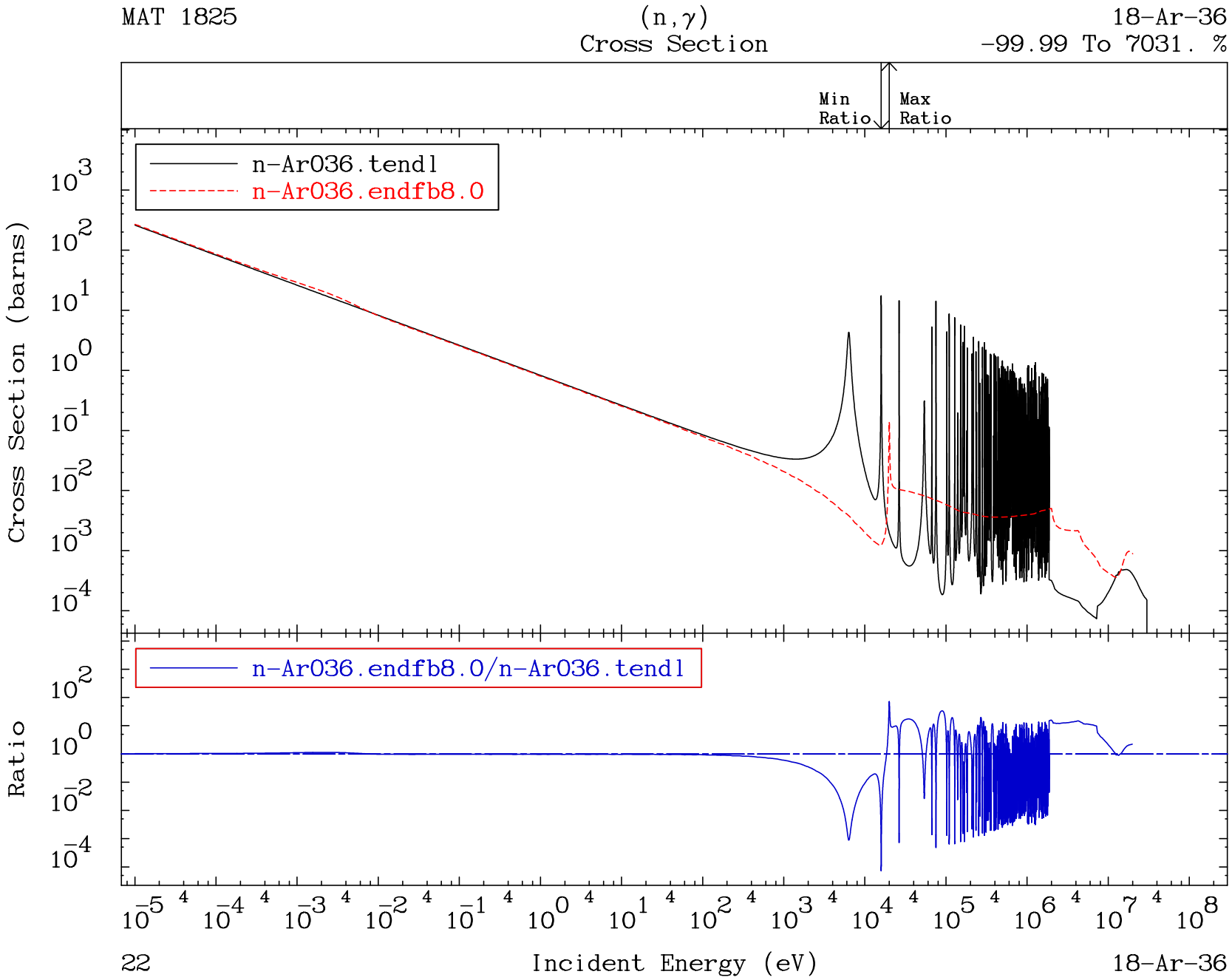

MAT 1825
MT= 61 (n,n') Level
Cross Section
18-Ar-36
-100.0 To 20.54 %
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 6.0209 MeV
n-Ar036.endfb8.0 Threshold 6.0209 MeV
Cross Section (milli-barns)
15
10
5
0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
1.2
0.8
0.4
0.0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
17
Incident Energy (eV)
18-Ar-36

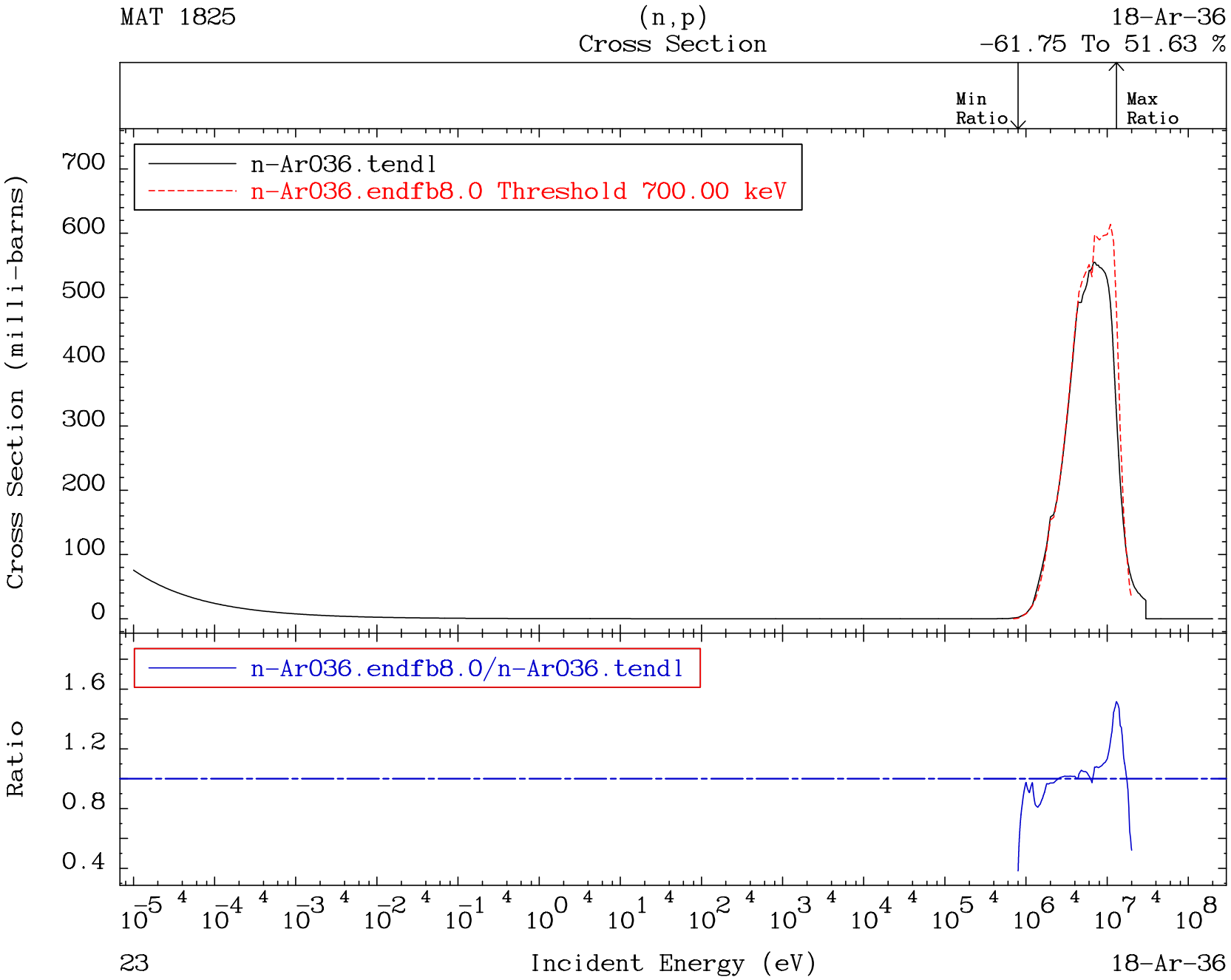

MAT 1825
MT= 62 (n,n') Level
Cross Section
18-Ar-36
-100.0 To -10.74%
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 6.0428 MeV
n-Ar036.endfb8.0 Threshold 6.0614 MeV
Cross Section (milli-barns)
16
12
8
4
0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
0.8
0.4
0.0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
18
Incident Energy (eV)
18-Ar-36

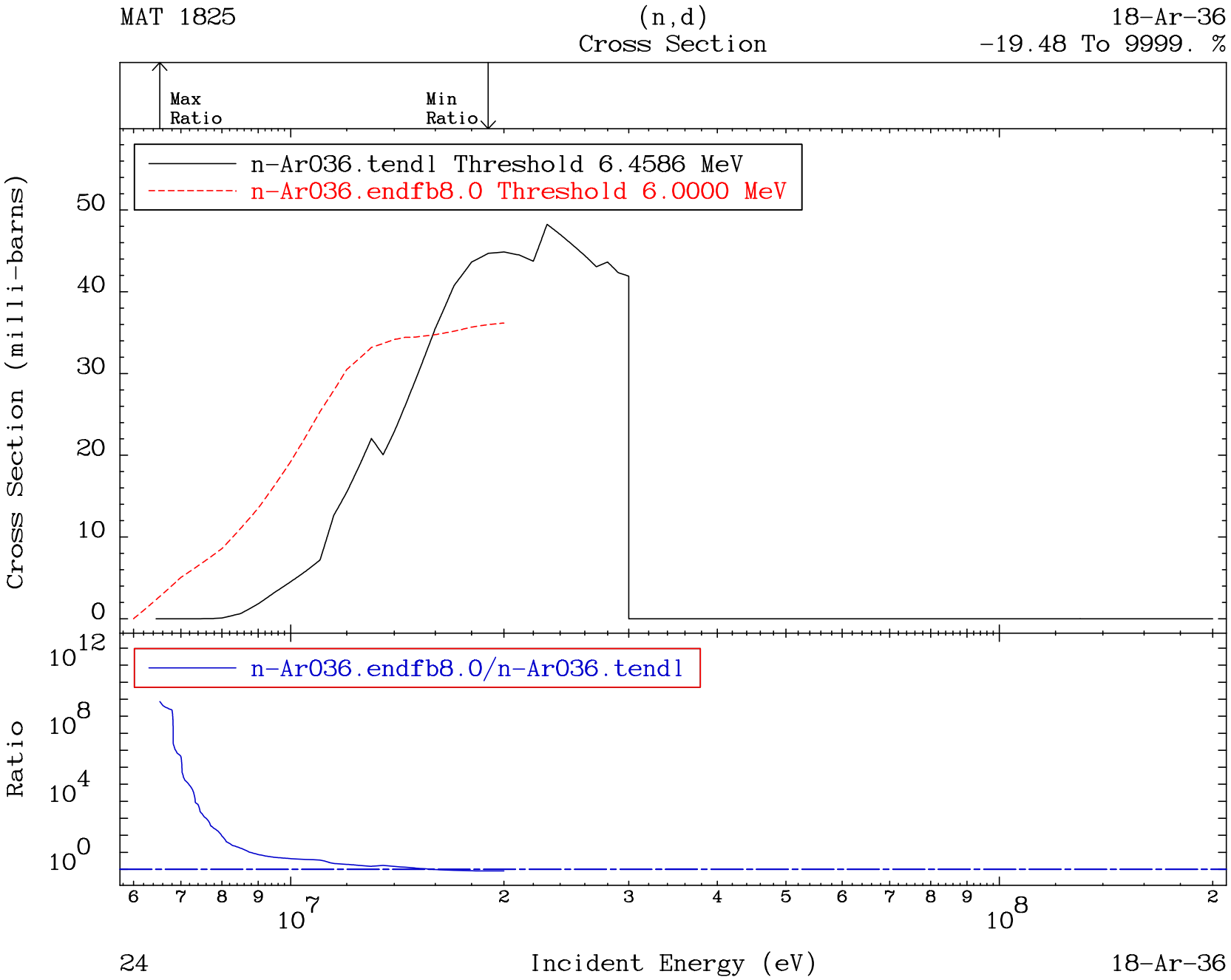

MAT 1825
MT= 63 (n,n') Level
Cross Section
18-Ar-36
-100.0 To -19.91%
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 6.0613 MeV
n-Ar036.endfb8.0 Threshold 6.3091 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
0.0
0.4
0.8
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
18-Ar-36

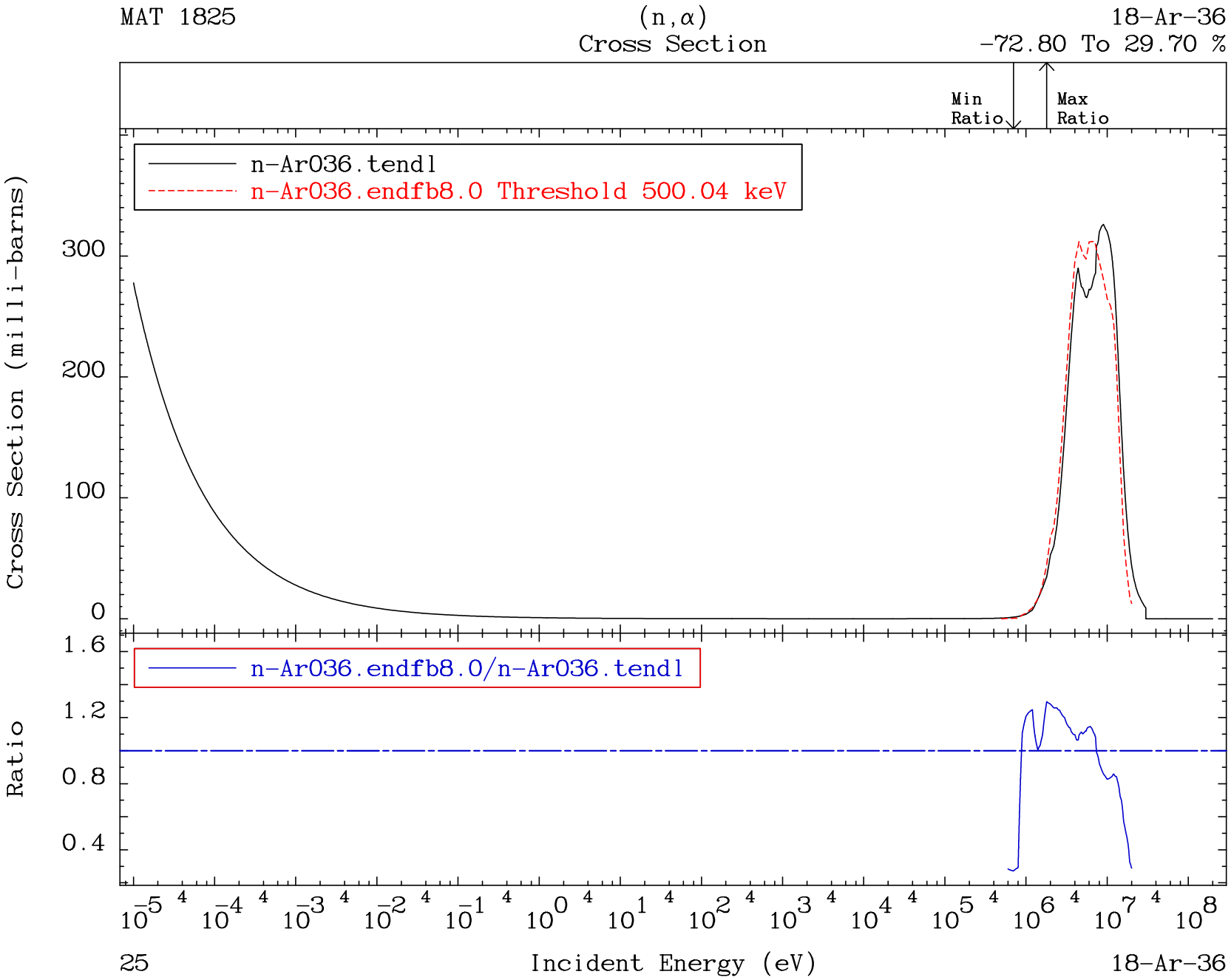

MAT 1825
MT= 64 (n,n') Level
Cross Section
18-Ar-36
-100.0 To -38.43%
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 6.3086 MeV
n-Ar036.endfb8.0 Threshold 6.3914 MeV
Cross Section (milli-barns)
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
Incident Energy (eV)
20
18-Ar-36

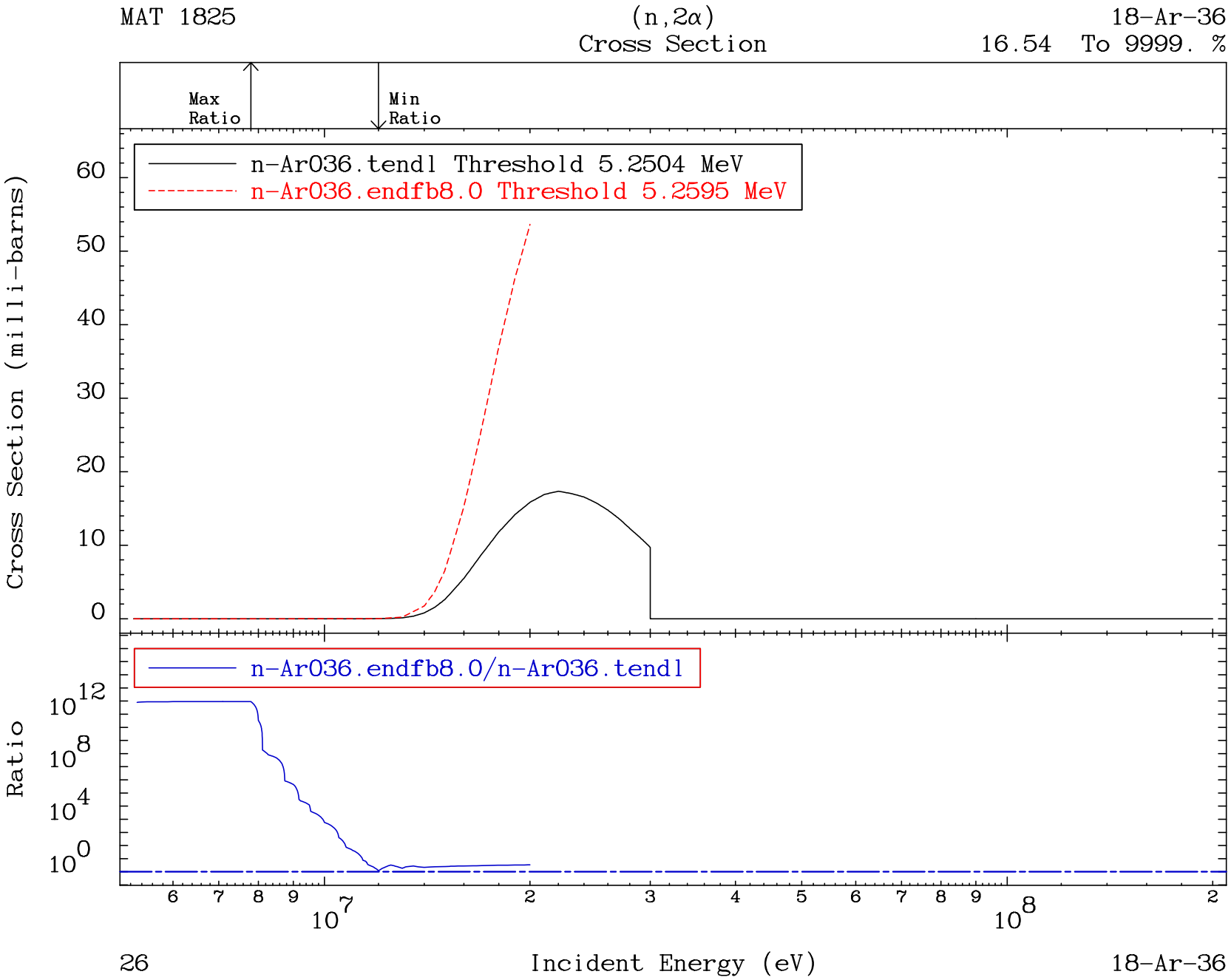

MAT 1825
(n,n') Continuum
Cross Section
18-Ar-36
-92.50 To 7.961 %
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 6.3086 MeV
n-Ar036.endfb8.0 Threshold 7.0935 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
2
10^0
6
4
2
10^-1
6
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
21
Incident Energy (eV)
18-Ar-36

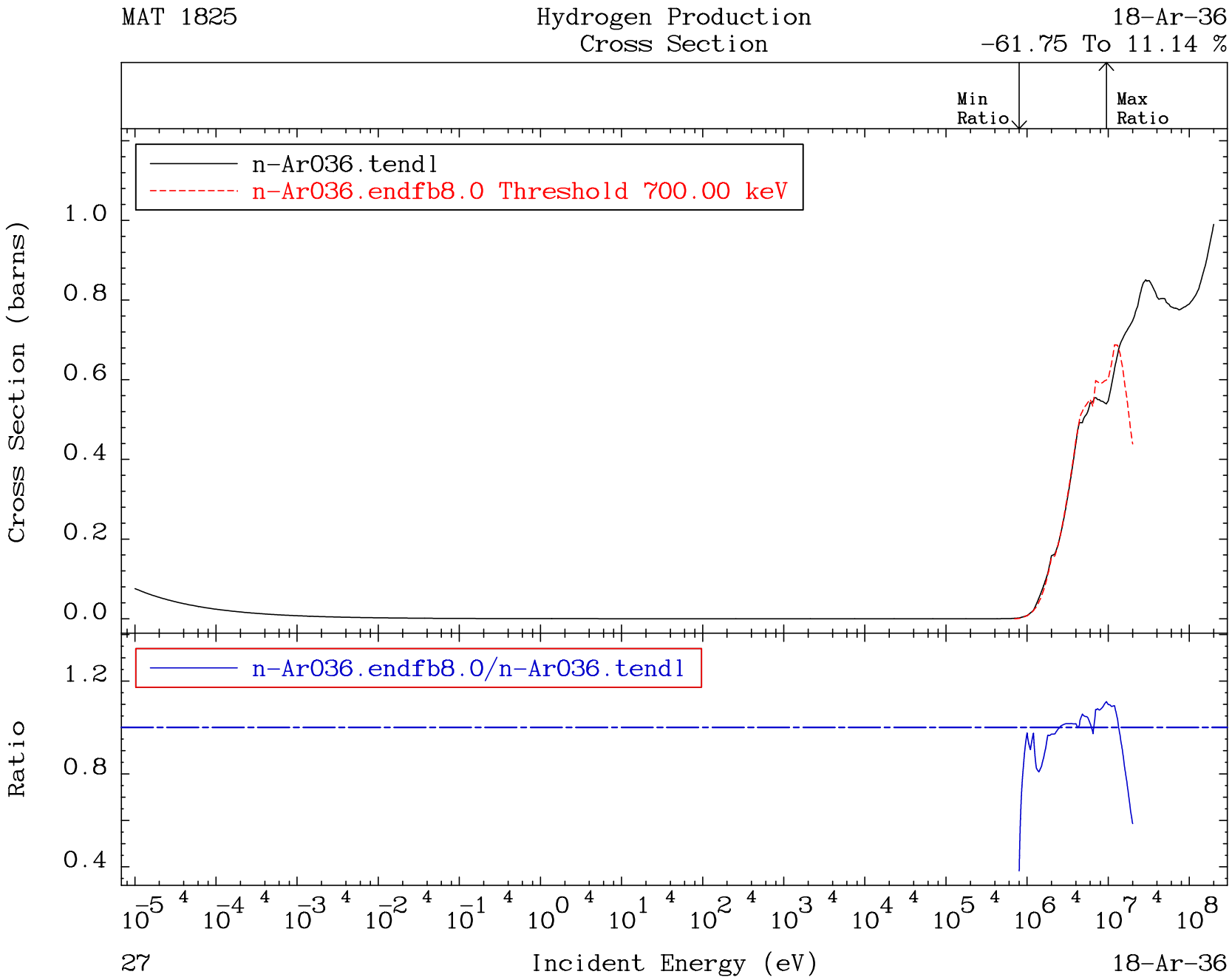

MAT 1825
(n,γ)
Cross Section
18-Ar-36
-99.99 To 7031. %
Min Ratio
Max Ratio
n-Ar036.tendl
n-Ar036.endfb8.0
Cross Section (barns)
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
Incident Energy (eV)
22
18-Ar-36

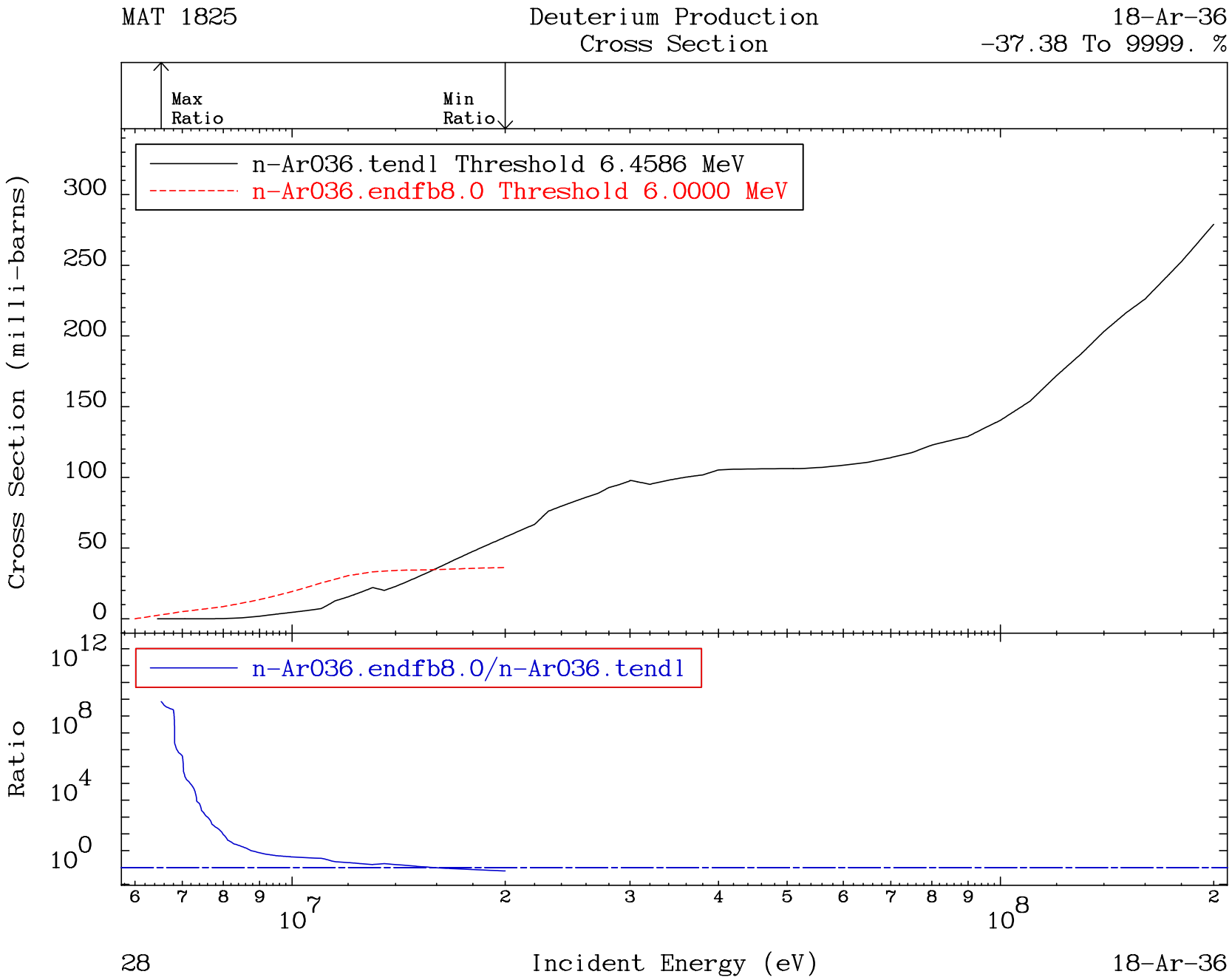

MAT 1825
(n,p)
Cross Section
18-Ar-36
-61.75 To 51.63 %
Min Ratio
Max Ratio
n-Ar036.tendl
n-Ar036.endfb8.0 Threshold 700.00 keV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
1.6
1.2
0.8
0.4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
23
Incident Energy (eV)
18-Ar-36

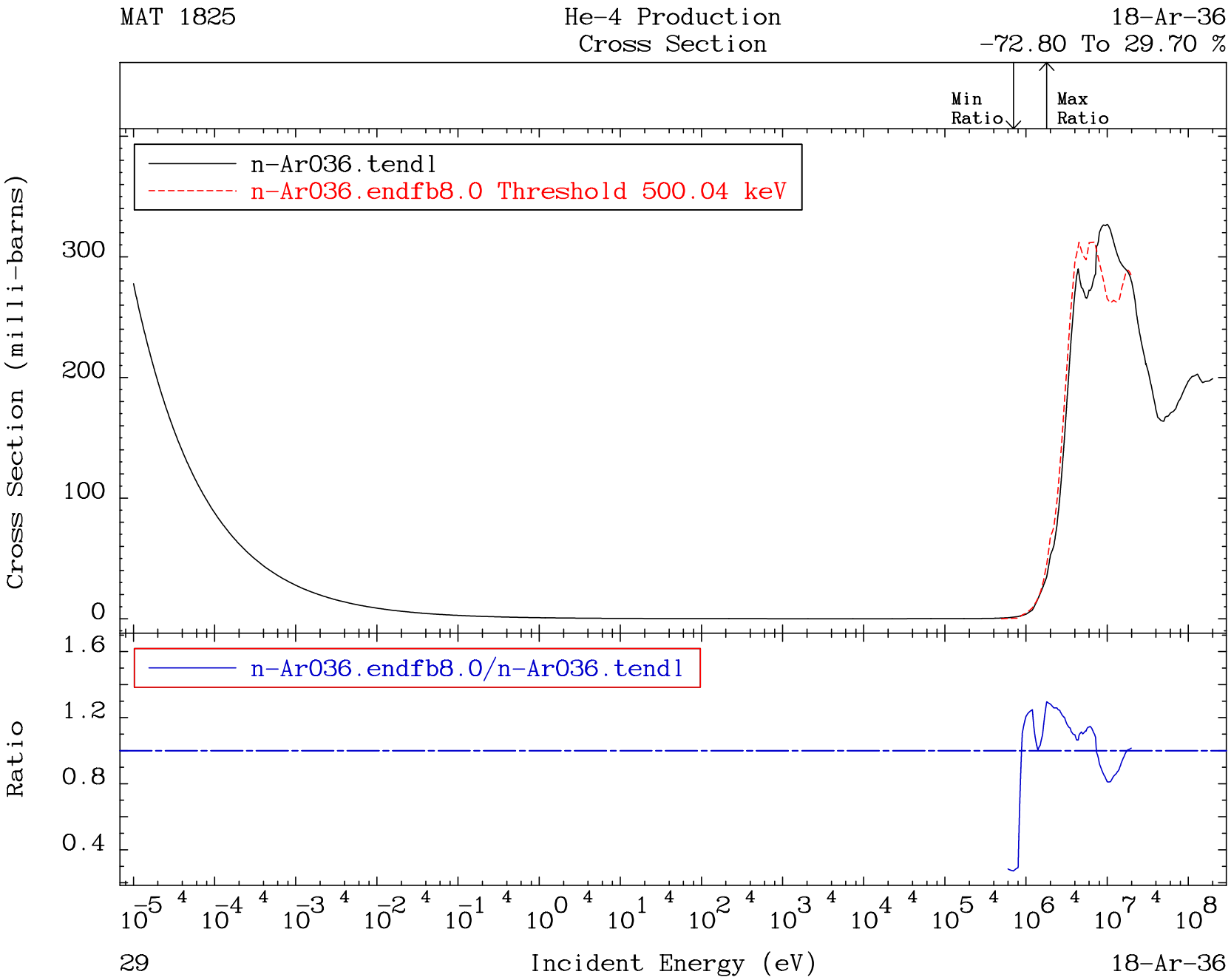

MAT 1825
(n,d)
Cross Section
18-Ar-36
-19.48 To 9999. %
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 6.4586 MeV
n-Ar036.endfb8.0 Threshold 6.0000 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
10^12
10^8
10^4
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
18-Ar-36

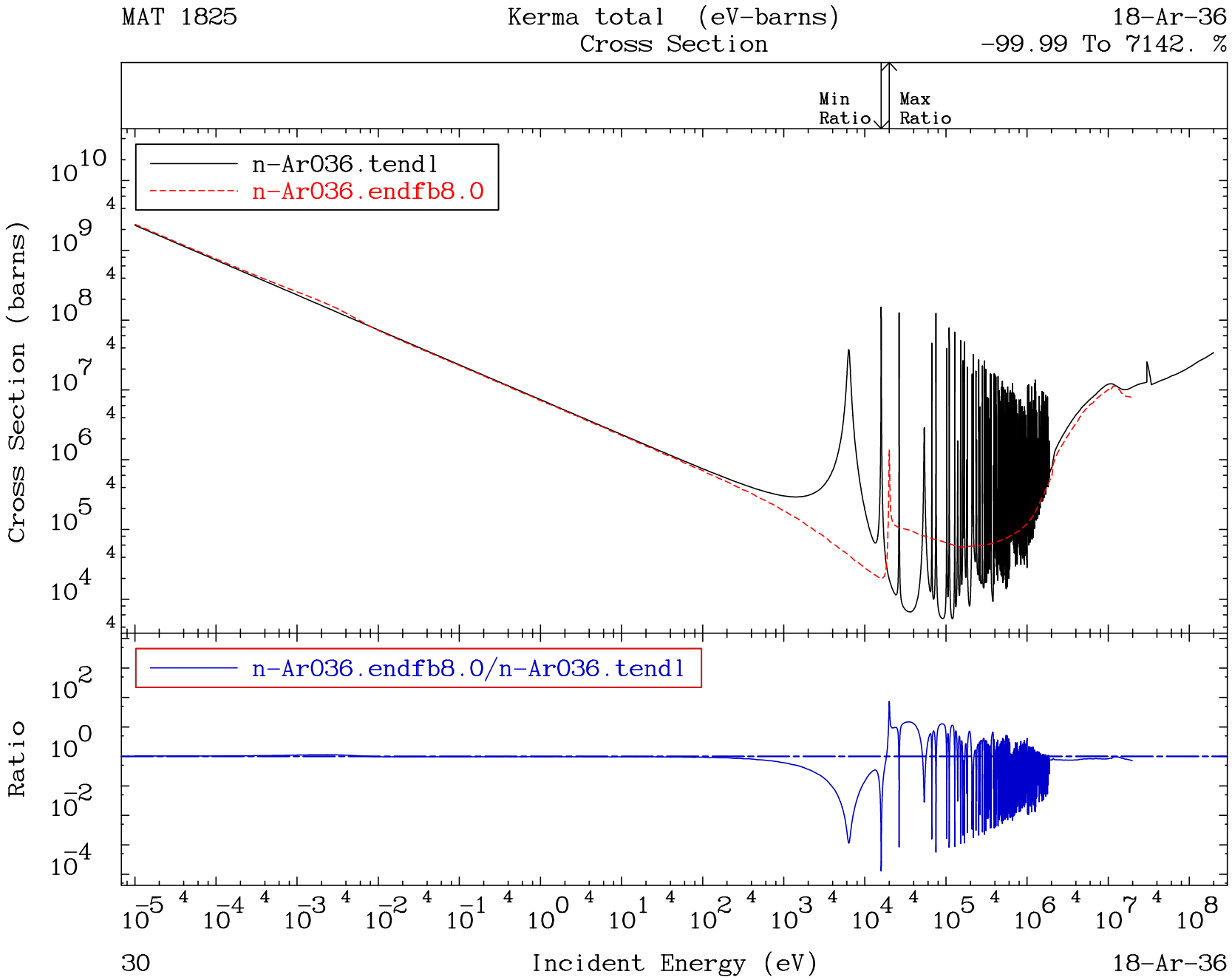

MAT 1825
(n,α)
Cross Section
18-Ar-36
-72.80 To 29.70 %
Min Ratio
Max Ratio
n-Ar036.tendl
n-Ar036.endfb8.0 Threshold 500.04 keV
Cross Section (milli-barns)
300
200
100
0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
1.6
1.2
0.8
0.4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
25
Incident Energy (eV)
18-Ar-36

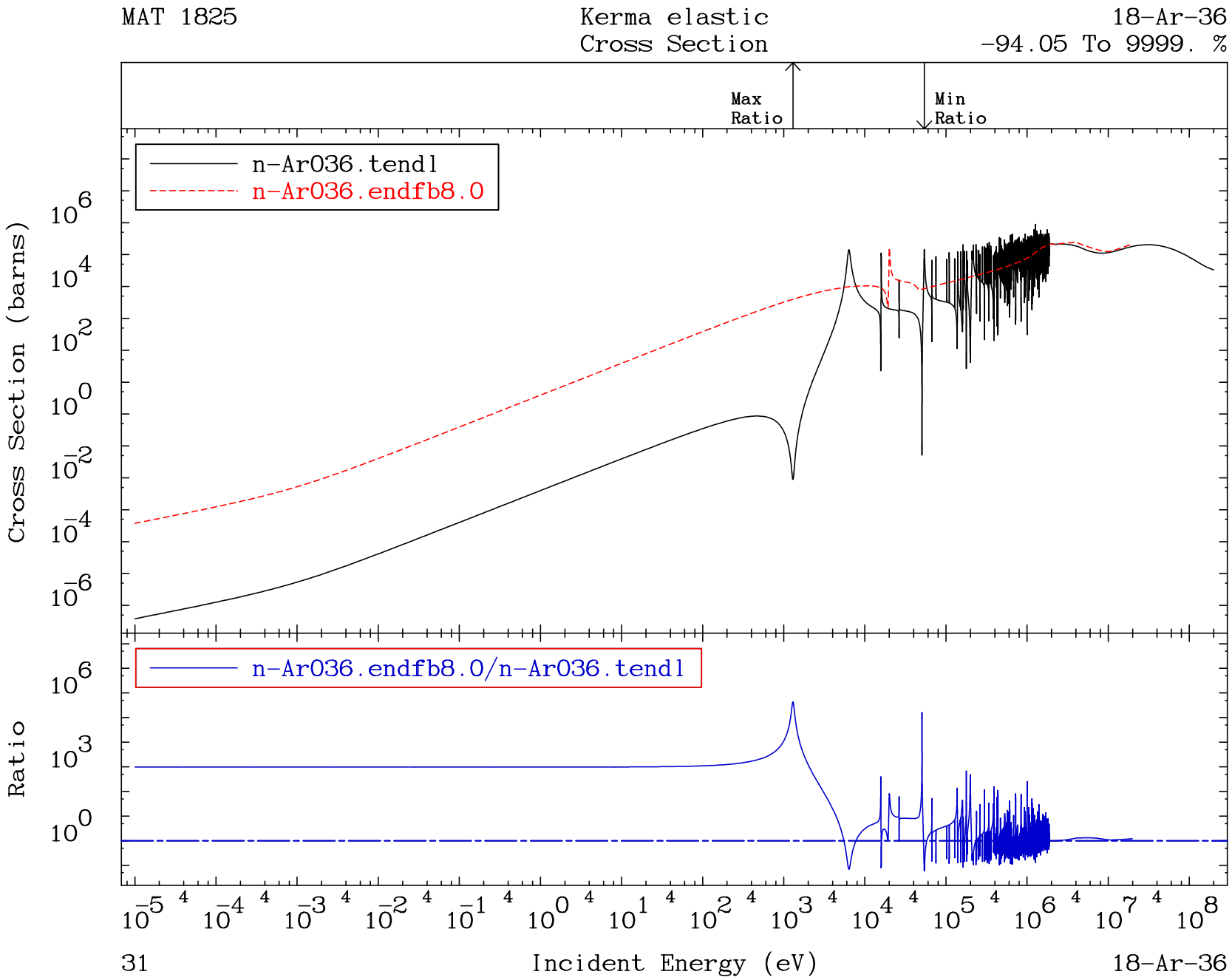

MAT 1825
(n,2α)
Cross Section
18-Ar-36
16.54 To 9999. %
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 5.2504 MeV
n-Ar036.endfb8.0 Threshold 5.2595 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
10^12
10^8
10^4
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
18-Ar-36

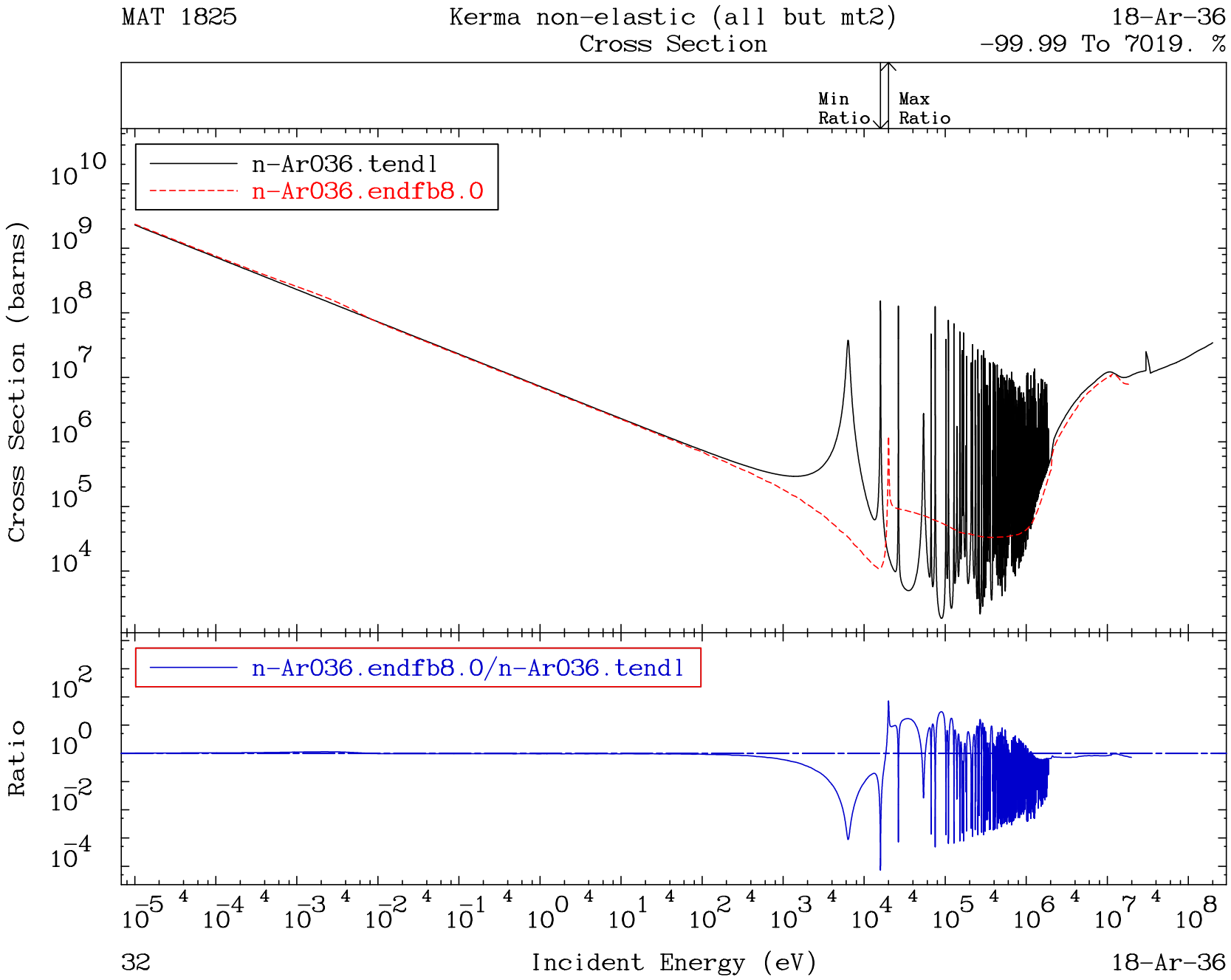

MAT 1825
Hydrogen Production
Cross Section
18-Ar-36
-61.75 To 11.14 %
Min Ratio
Max Ratio
n-Ar036.tendl
n-Ar036.endfb8.0 Threshold 700.00 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
1.2
0.8
0.4
10-5 10-4 10-3 10-2 10-1 100 101 102 103 104 105 106 107 108
27
Incident Energy (eV)
18-Ar-36

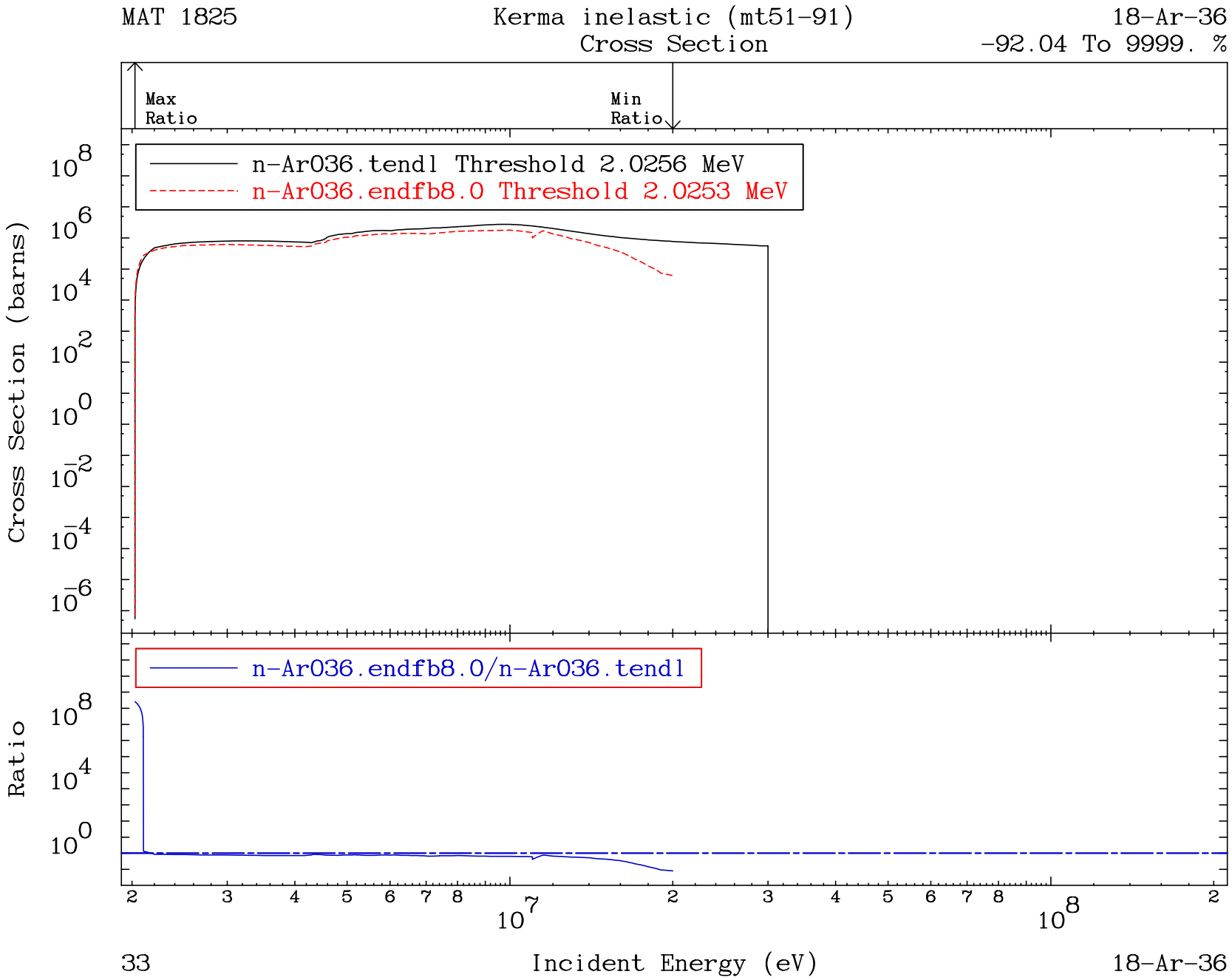

MAT 1825
Deuterium Production
Cross Section
18-Ar-36
-37.38 To 9999. %
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 6.4586 MeV
n-Ar036.endfb8.0 Threshold 6.0000 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
10^12
10^8
10^4
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
18-Ar-36

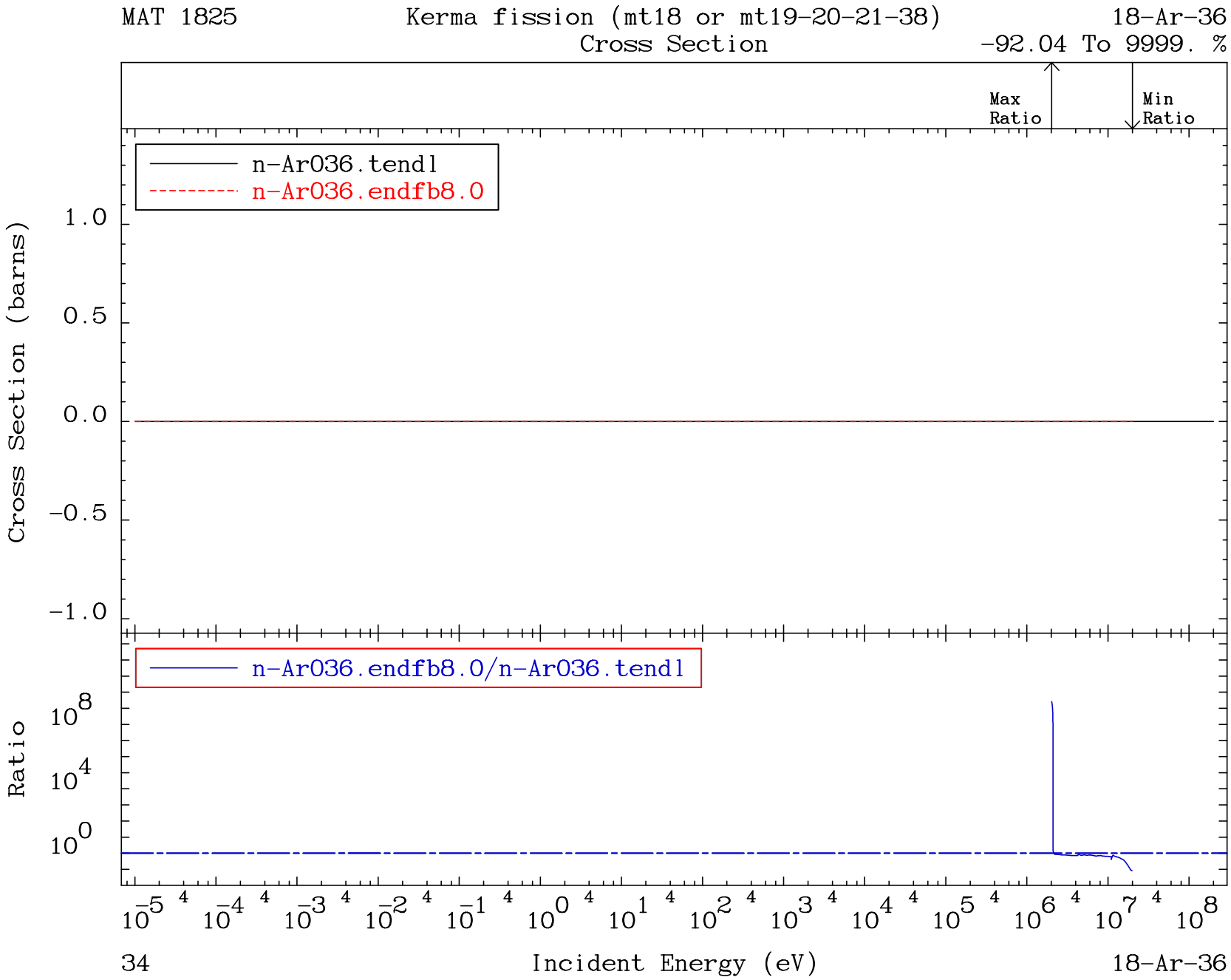

MAT 1825
He-4 Production
Cross Section
18-Ar-36
-72.80 To 29.70 %
Min Ratio
Max Ratio
n-Ar036.tendl
n-Ar036.endfb8.0 Threshold 500.04 keV
Cross Section (milli-barns)
300
200
100
0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
1.6
1.2
0.8
0.4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
29
Incident Energy (eV)
18-Ar-36

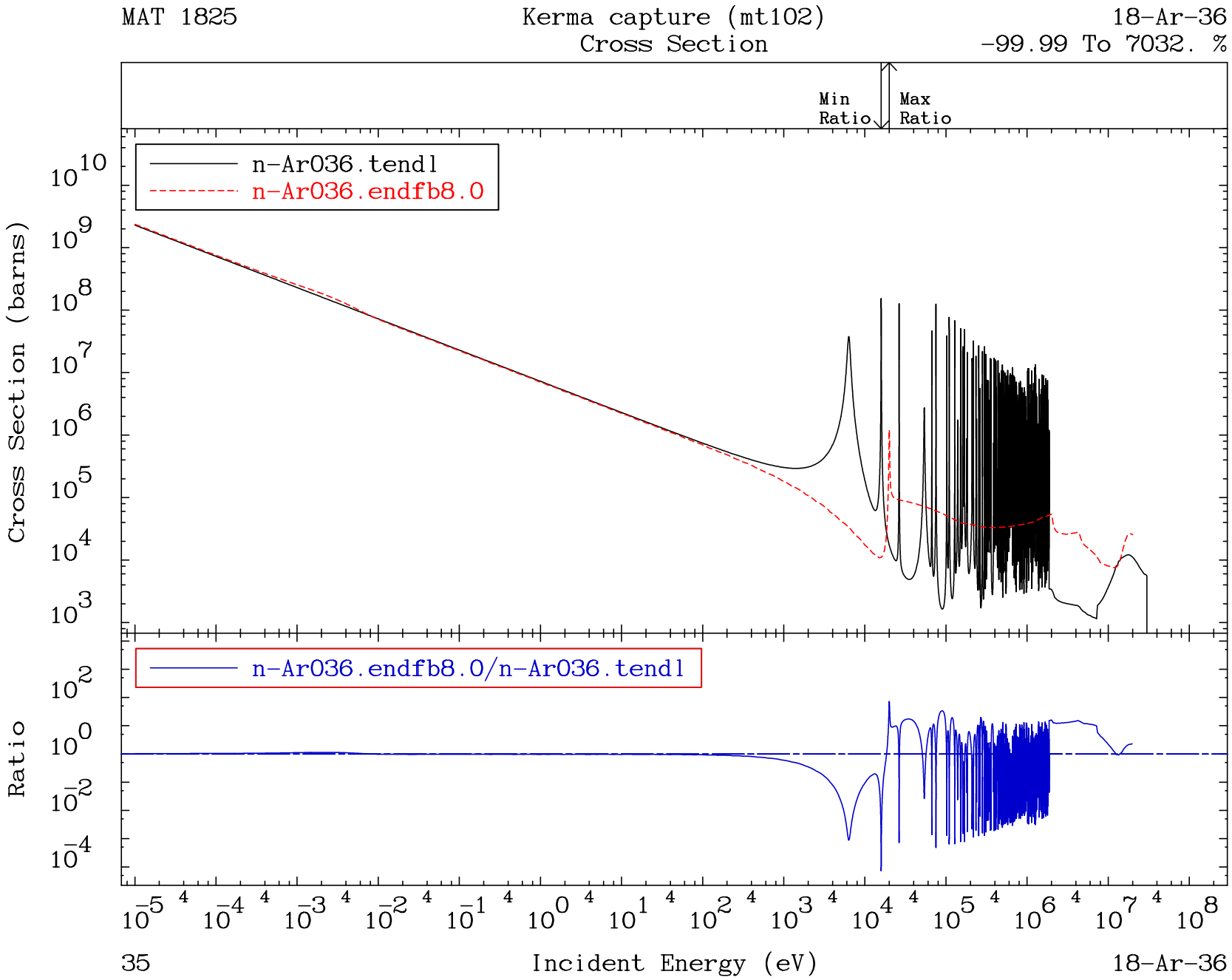

MAT 1825
Kerma total (eV-barns)
Cross Section
18-Ar-36
-99.99 To 7142. %
Min Ratio
Max Ratio
n-Ar036.tendl
n-Ar036.endfb8.0
Cross Section (barns)
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
Incident Energy (eV)
30
18-Ar-36

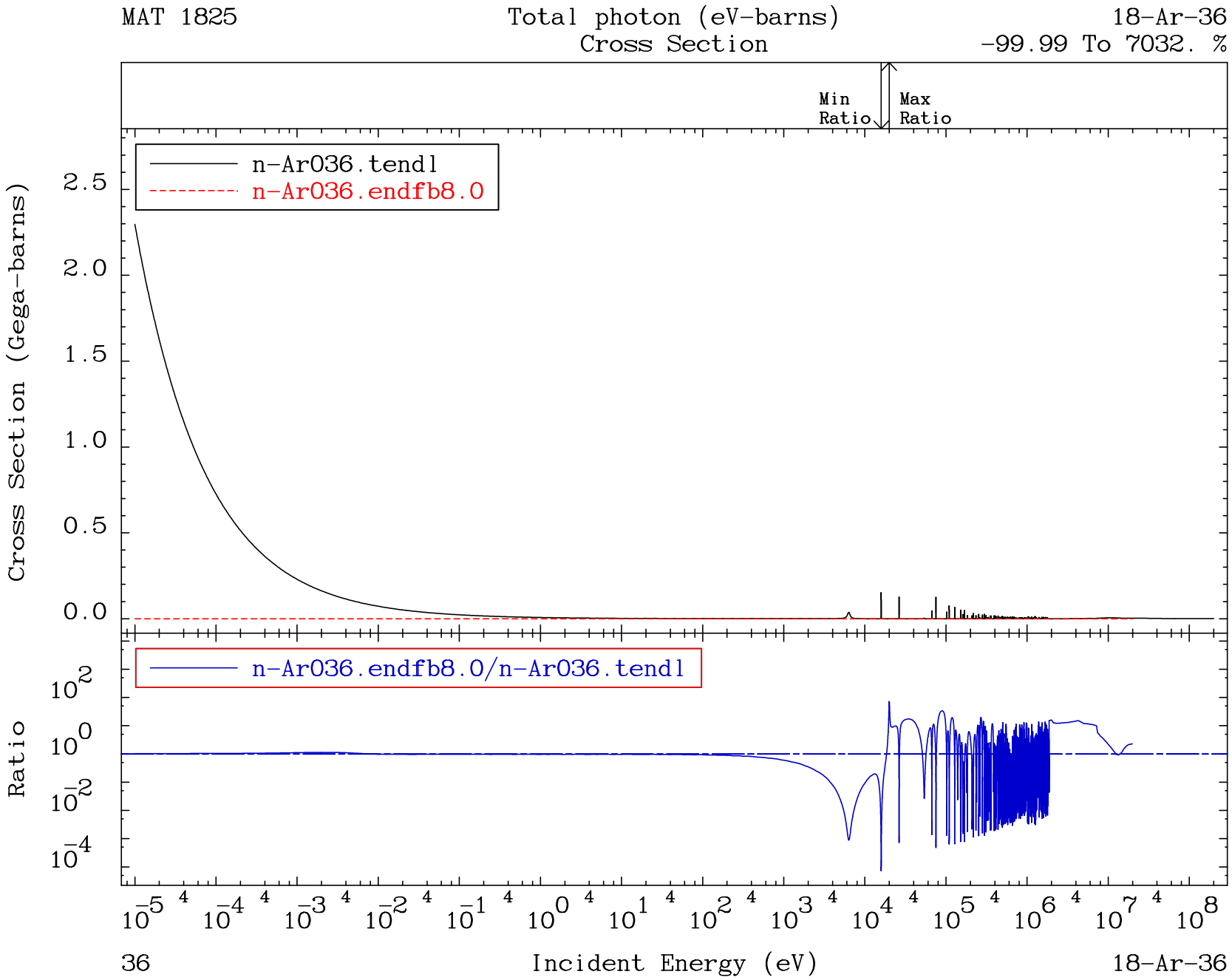

MAT 1825
Kerma elastic
Cross Section
18-Ar-36
-94.05 To 9999. %
Max Ratio
Min Ratio
n-Ar036.tendl
n-Ar036.endfb8.0
Cross Section (barns)
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
Incident Energy (eV)
31
18-Ar-36

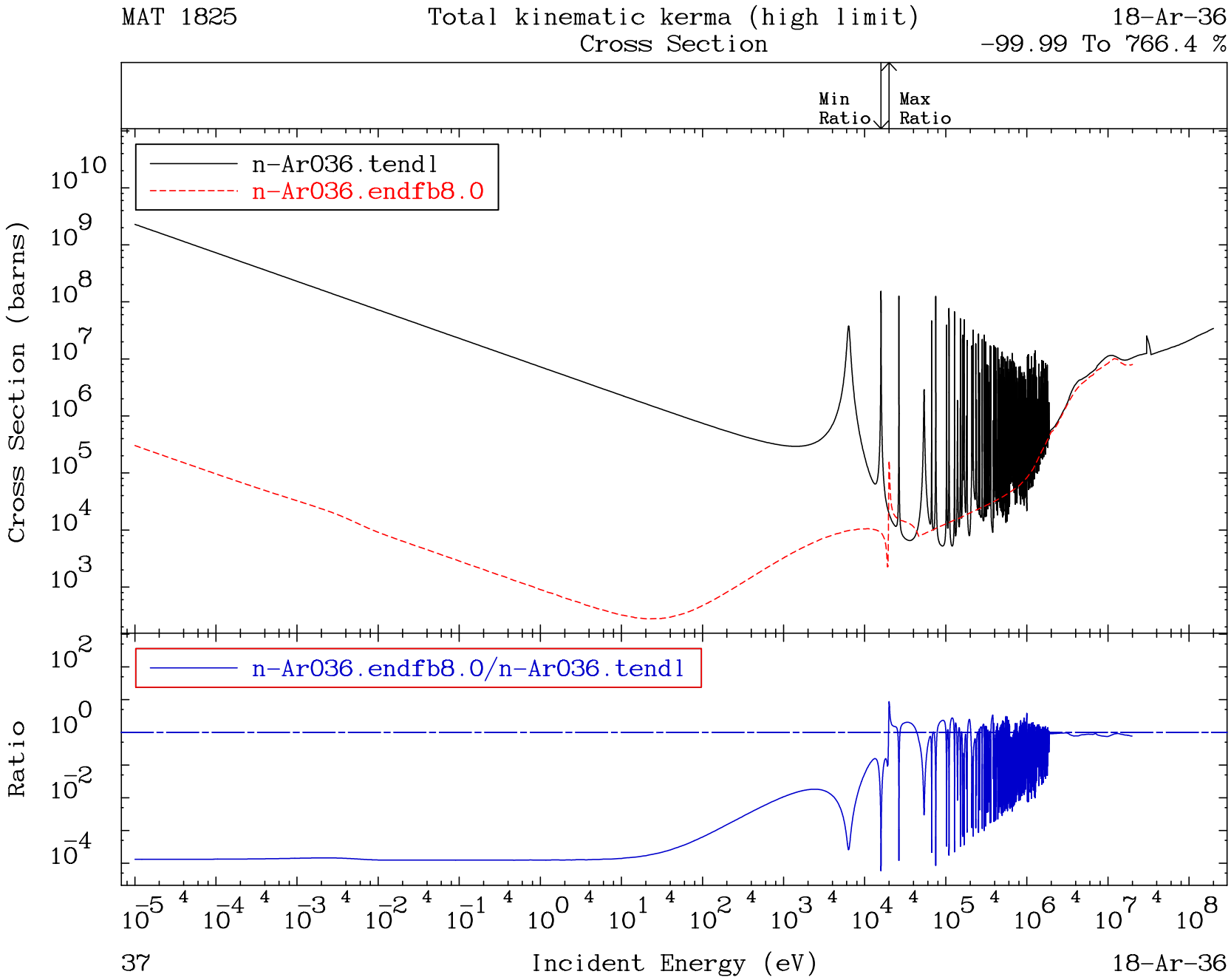

MAT 1825
Kerma non-elastic (all but mt2)
Cross Section
18-Ar-36
-99.99 To 7019. %
Min Ratio
Max Ratio
n-Ar036.tendl
n-Ar036.endfb8.0
Cross Section (barns)
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
Incident Energy (eV)
32
18-Ar-36

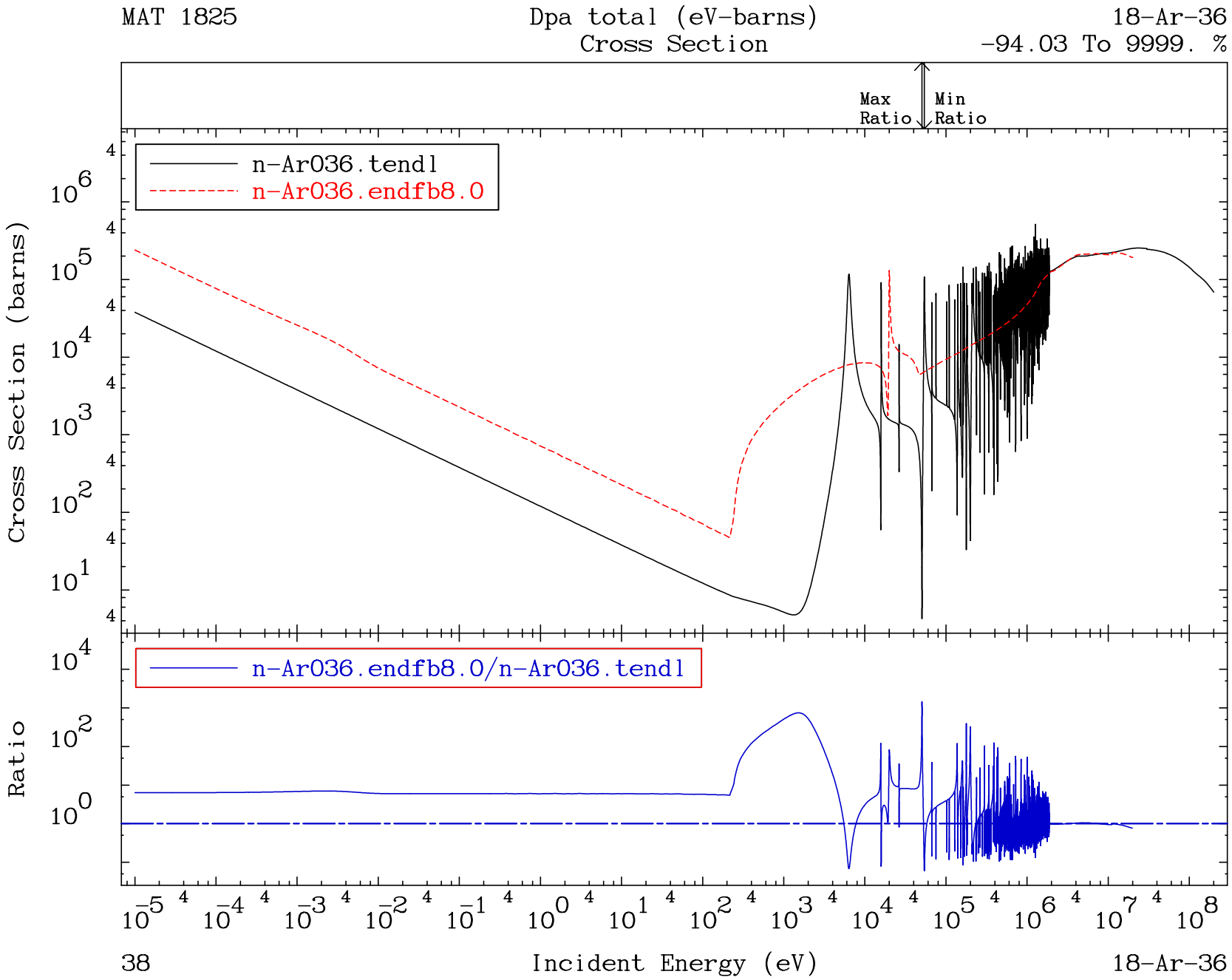

MAT 1825
Kerma inelastic (mt51-91)
Cross Section
18-Ar-36
-92.04 To 9999. %
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 2.0256 MeV
n-Ar036.endfb8.0 Threshold 2.0253 MeV
Cross Section (barns)
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
Incident Energy (eV)
33
18-Ar-36

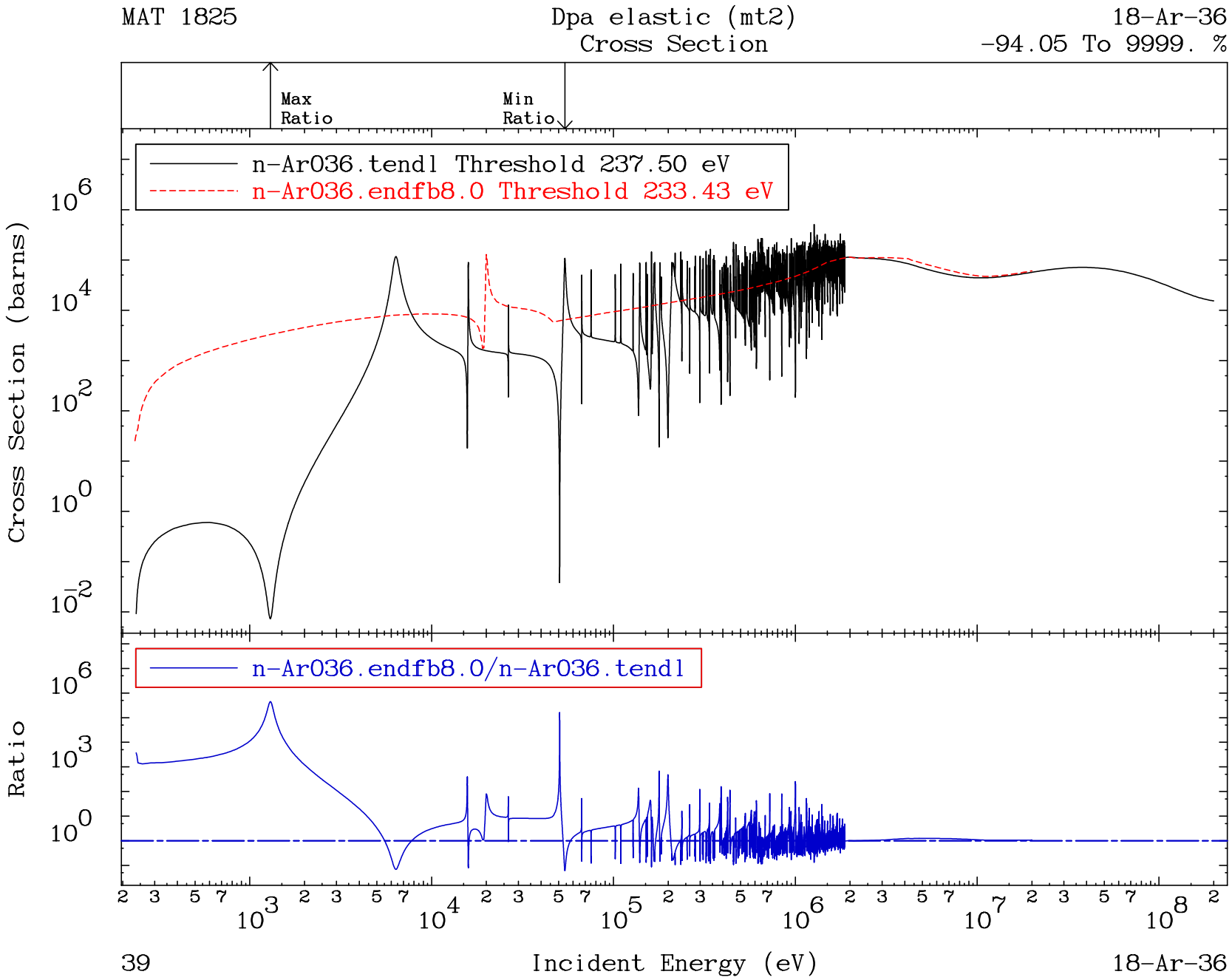

MAT 1825
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
18-Ar-36
-92.04 To 9999. %
Max Ratio
Min Ratio
n-Ar036.tendl
n-Ar036.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
10^8
10^4
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
34
Incident Energy (eV)
18-Ar-36

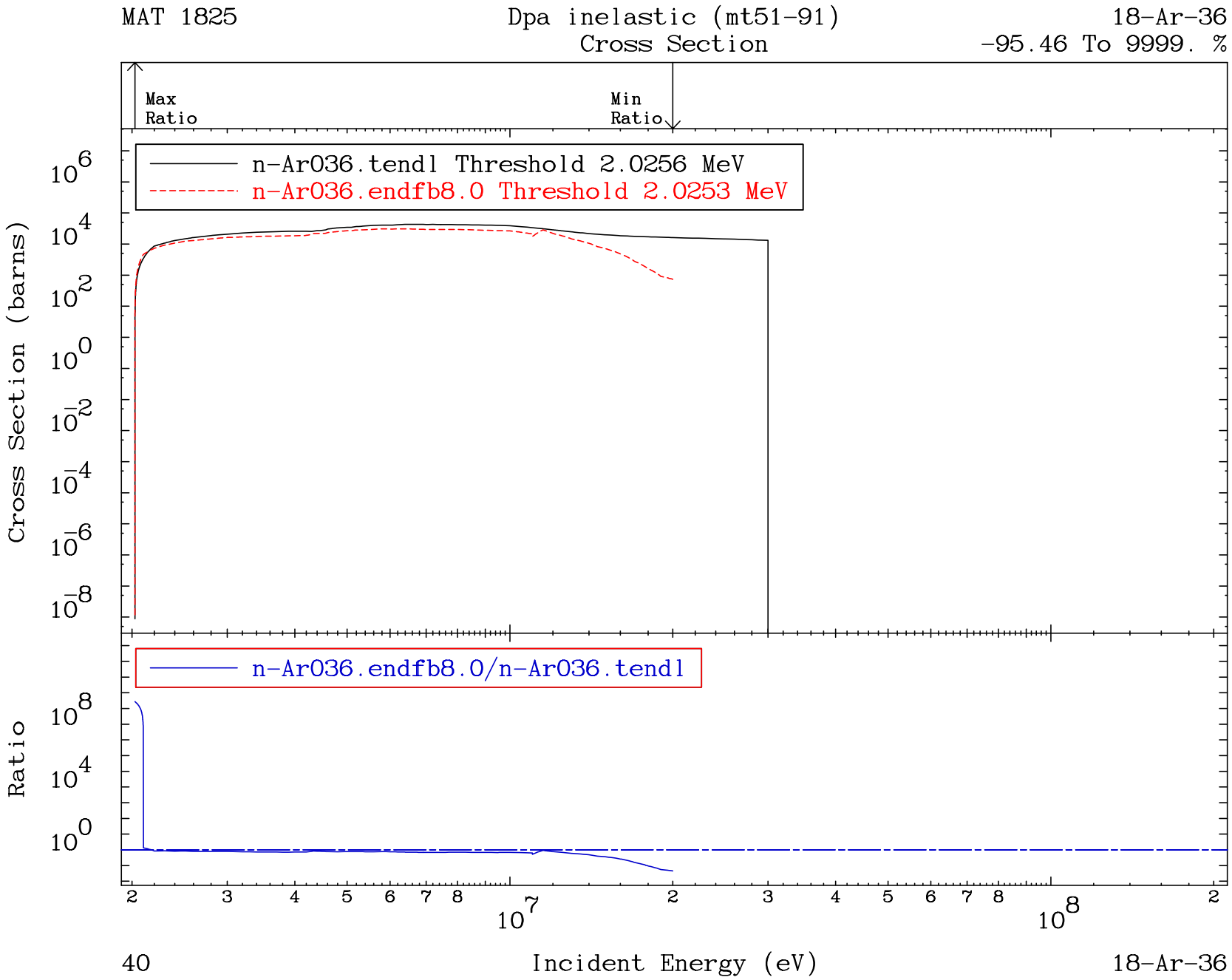

MAT 1825
Kerma capture (mt102)
Cross Section
18-Ar-36
-99.99 To 7032. %
Min Ratio
Max Ratio
n-Ar036.tendl
n-Ar036.endfb8.0
Cross Section (barns)
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
Incident Energy (eV)
35
18-Ar-36

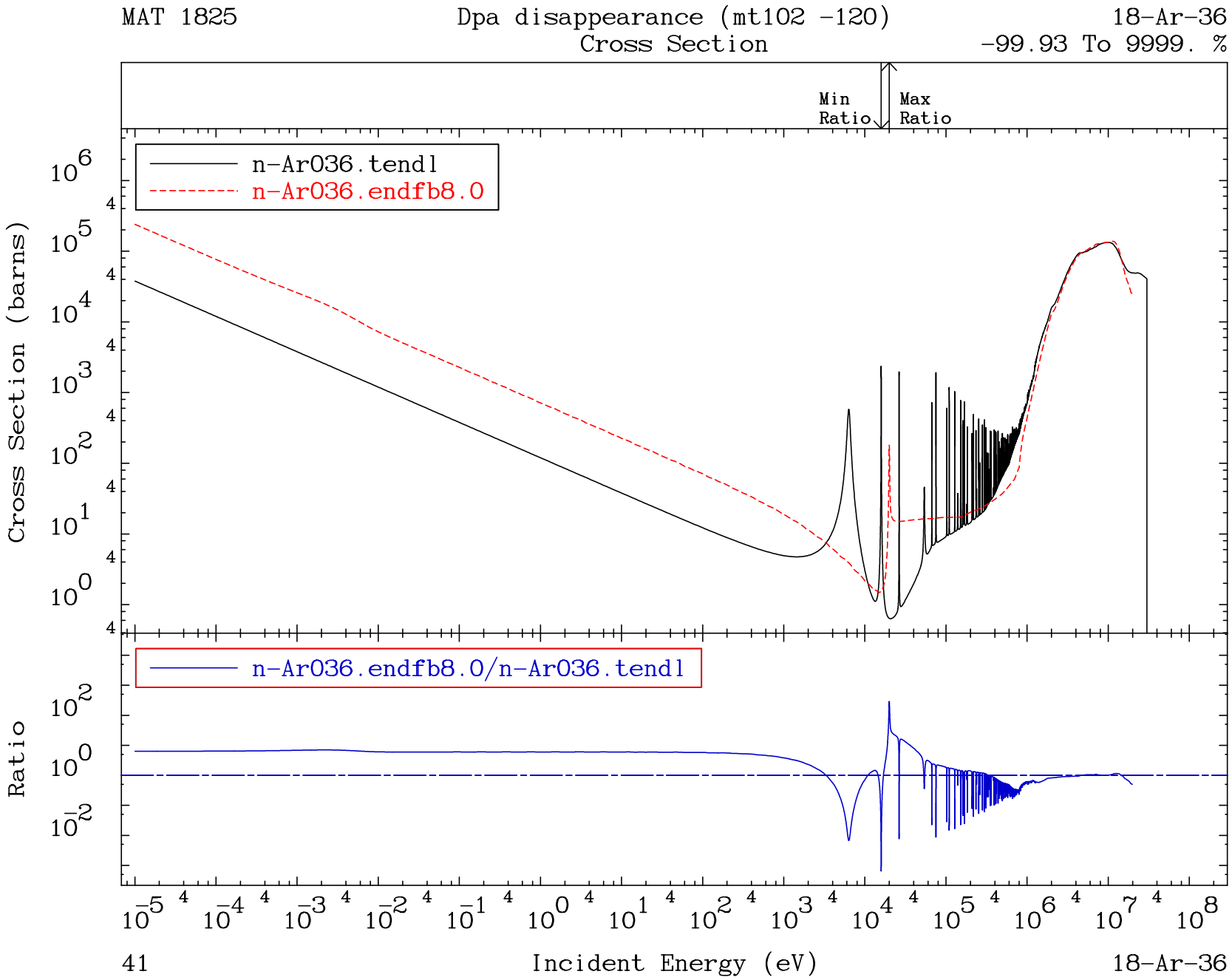

MAT 1825
Total photon (eV-barns)
Cross Section
18-Ar-36
-99.99 To 7032. %
Min Ratio
Max Ratio
n-Ar036.tendl
n-Ar036.endfb8.0
Cross Section (Giga-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
10^2
10^0
10^-2
10^-4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
36
Incident Energy (eV)
18-Ar-36


MAT 1825
Total kinematic kerma (high limit)
Cross Section
18-Ar-36
-99.99 To 766.4 %
Min Ratio
Max Ratio
n-Ar036.tendl
n-Ar036.endfb8.0
Cross Section (barns)
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
Incident Energy (eV)
37
18-Ar-36


MAT 1825
Dpa total (eV-barns)
Cross Section
18-Ar-36
-94.03 To 9999. %
Max Ratio
Min Ratio
n-Ar036.tendl
n-Ar036.endfb8.0
Cross Section (barns)
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
Incident Energy (eV)
38
18-Ar-36


MAT 1825
Dpa elastic (mt2)
Cross Section
18-Ar-36
-94.05 To 9999. %
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 237.50 eV
n-Ar036.endfb8.0 Threshold 233.43 eV
Cross Section (barns)
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
Incident Energy (eV)
39
18-Ar-36


MAT 1825
Dpa inelastic (mt51-91)
Cross Section
18-Ar-36
-95.46 To 9999. %
Max Ratio
Min Ratio
n-Ar036.tendl Threshold 2.0256 MeV
n-Ar036.endfb8.0 Threshold 2.0253 MeV
Cross Section (barns)
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
Incident Energy (eV)
40
18-Ar-36


MAT 1825
Dpa disappearance (mt102 -120)
Cross Section
18-Ar-36
-99.93 To 9999. %
Min Ratio
Max Ratio
n-Ar036.tendl
n-Ar036.endfb8.0
Cross Section (barns)
n-Ar036.endfb8.0/n-Ar036.tendl
Ratio
Incident Energy (eV)
41
18-Ar-36