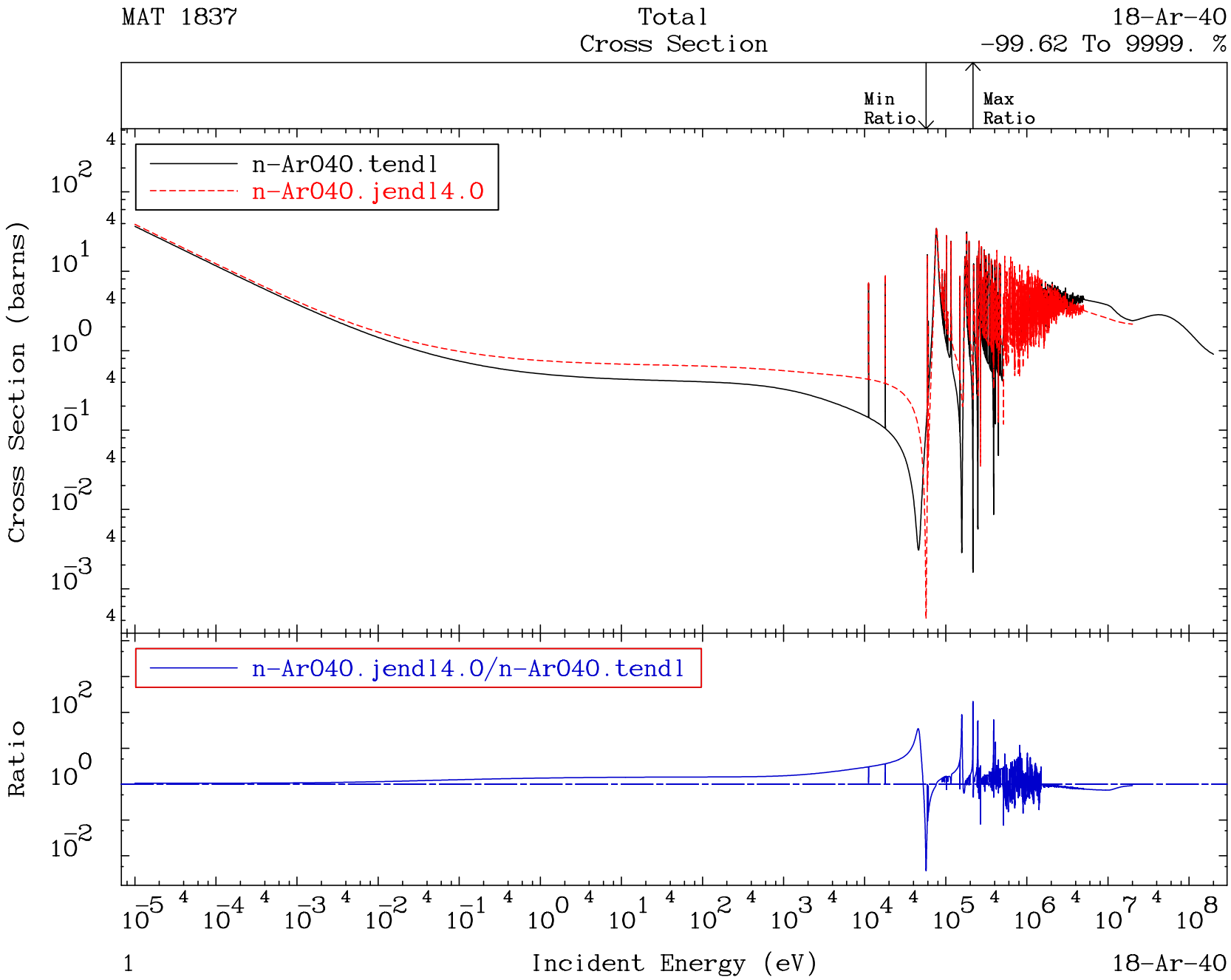
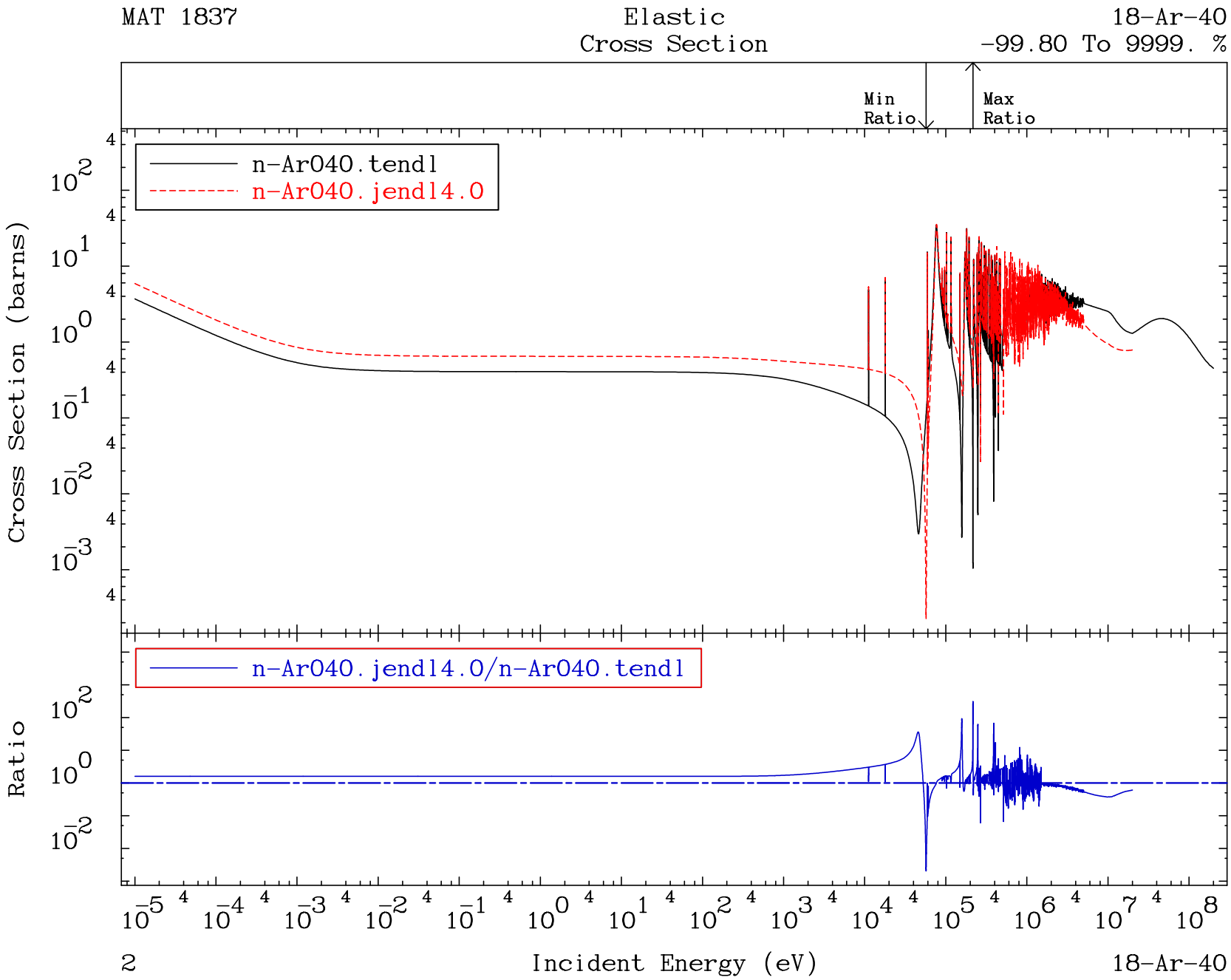
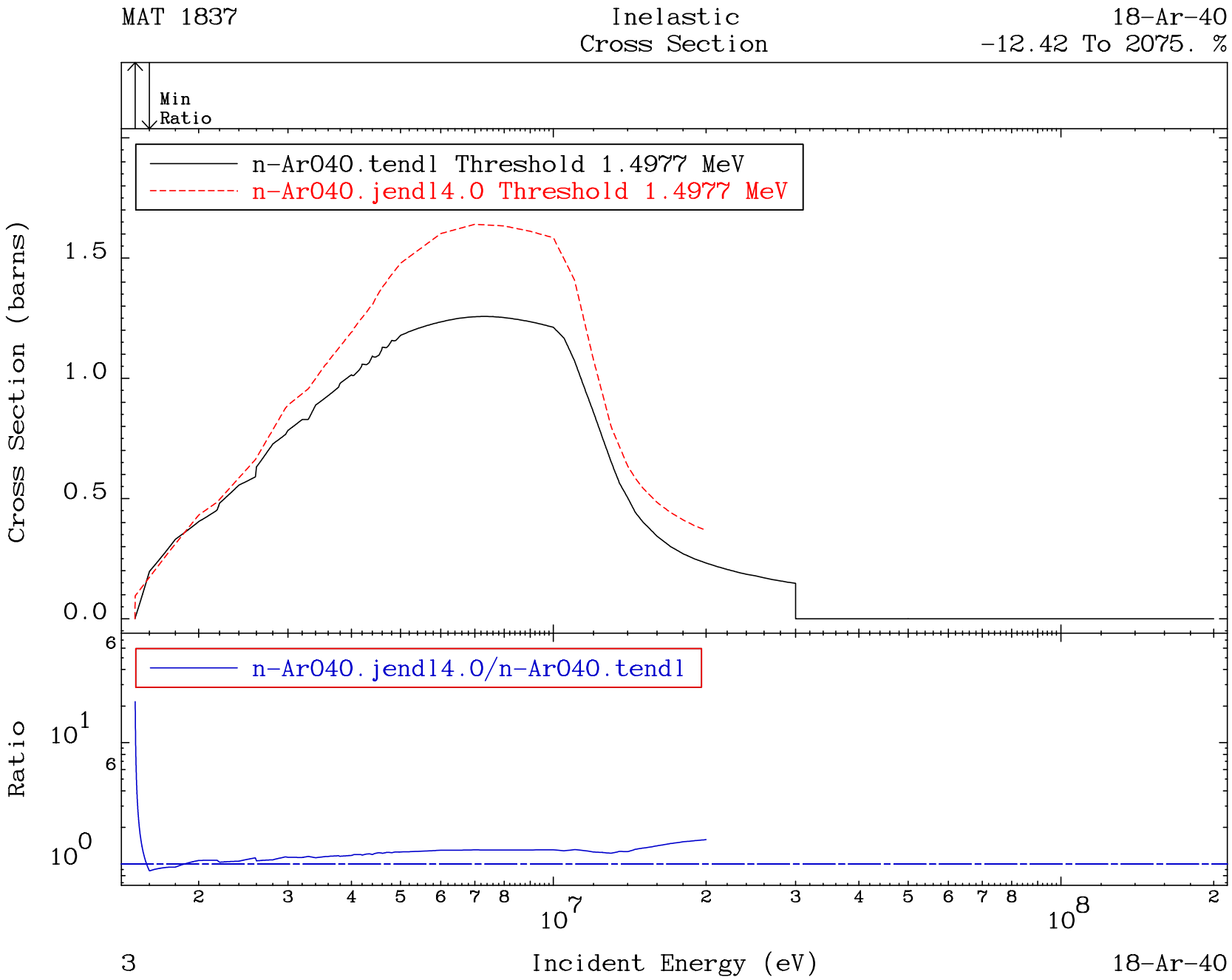
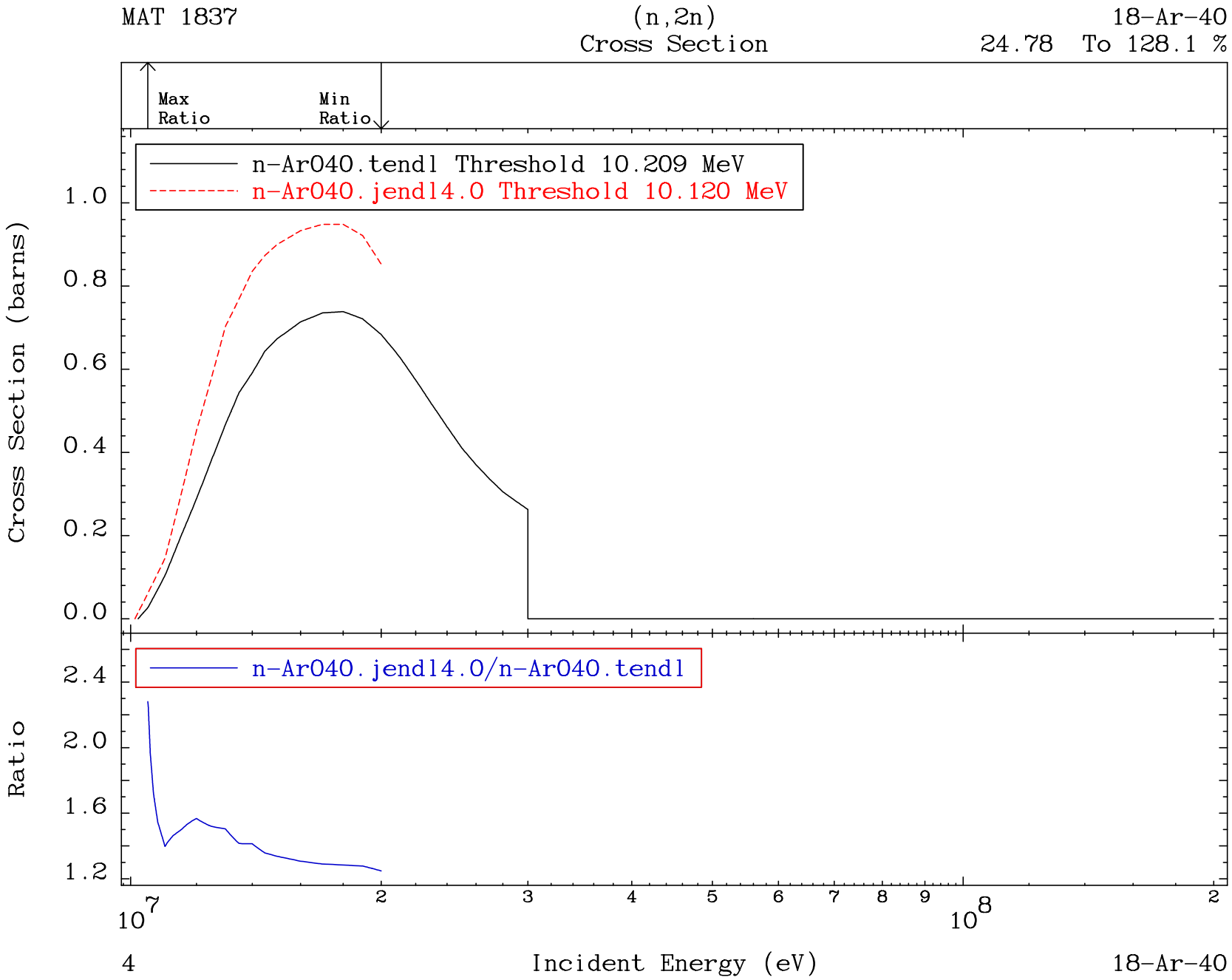
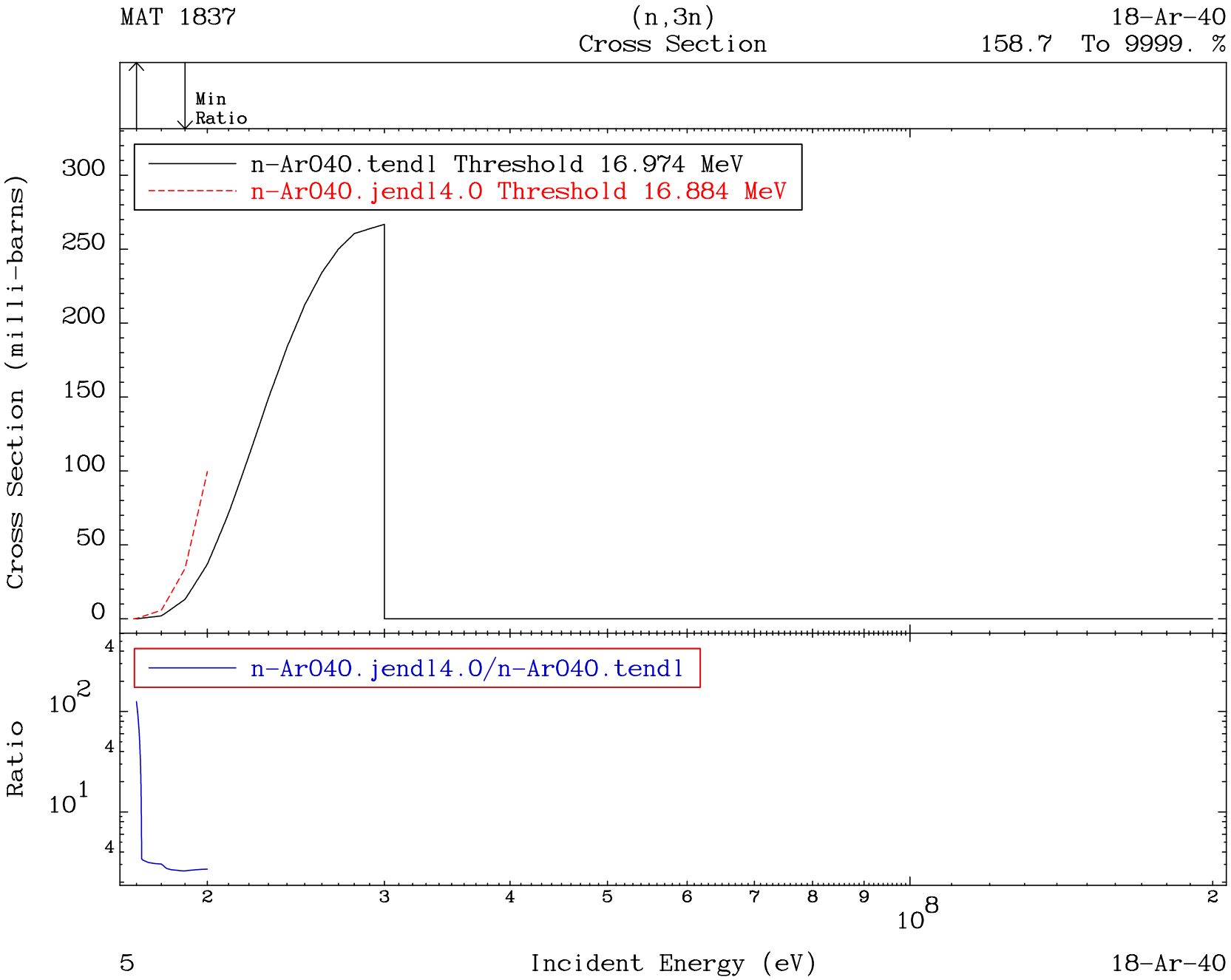
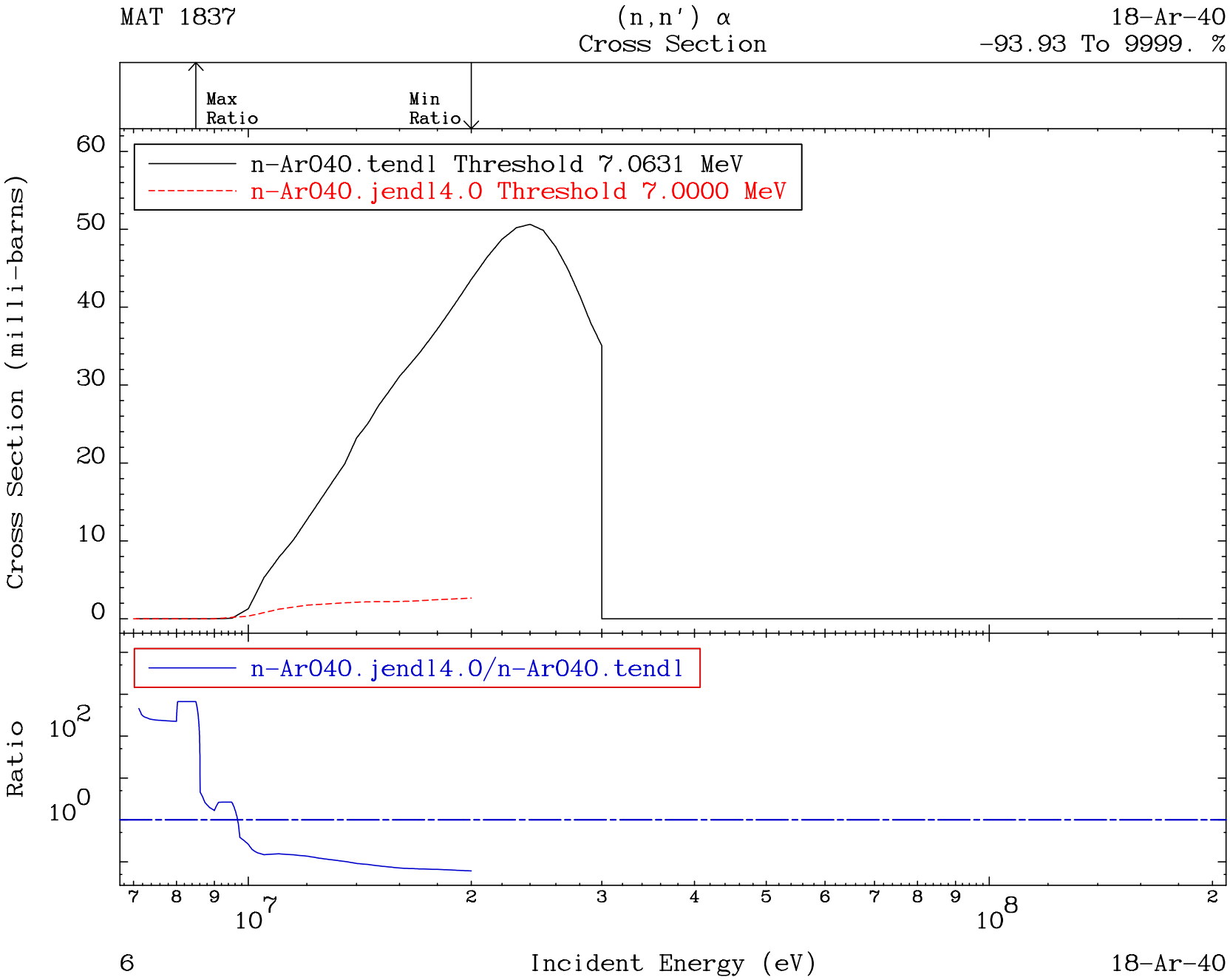

MAT 1837
Total
Cross Section
18-Ar-40
-99.62 To 9999. %
Min Ratio
Max Ratio
n-Ar040.tendl
n-Ar040.jendl4.0
Cross Section (barns)
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
Incident Energy (eV)
1
18-Ar-40

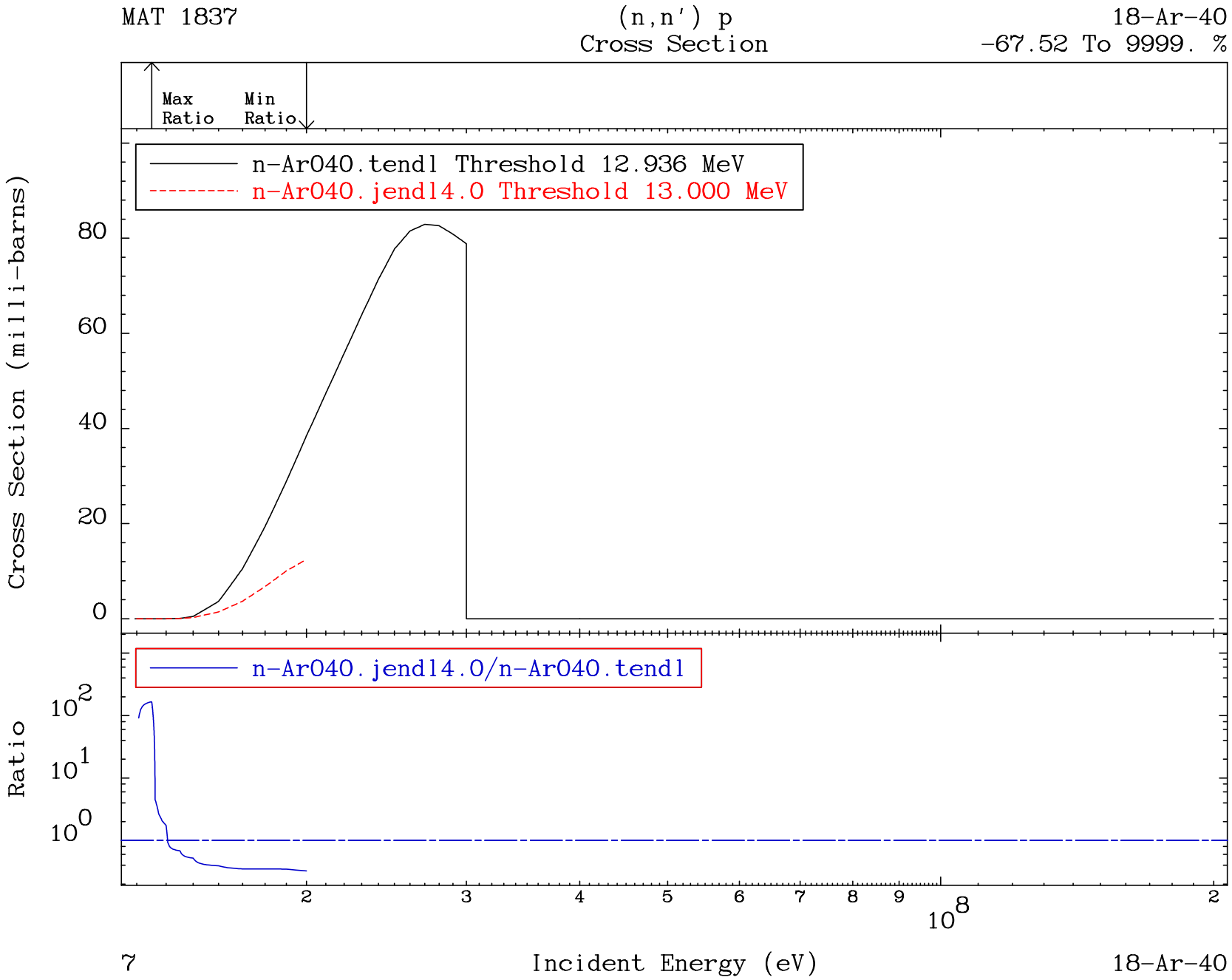

MAT 1837
Elastic
Cross Section
18-Ar-40
-99.80 To 9999. %
Min Ratio
Max Ratio
n-Ar040.tendl
n-Ar040.jendl4.0
Cross Section (barns)
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
Incident Energy (eV)
2
18-Ar-40

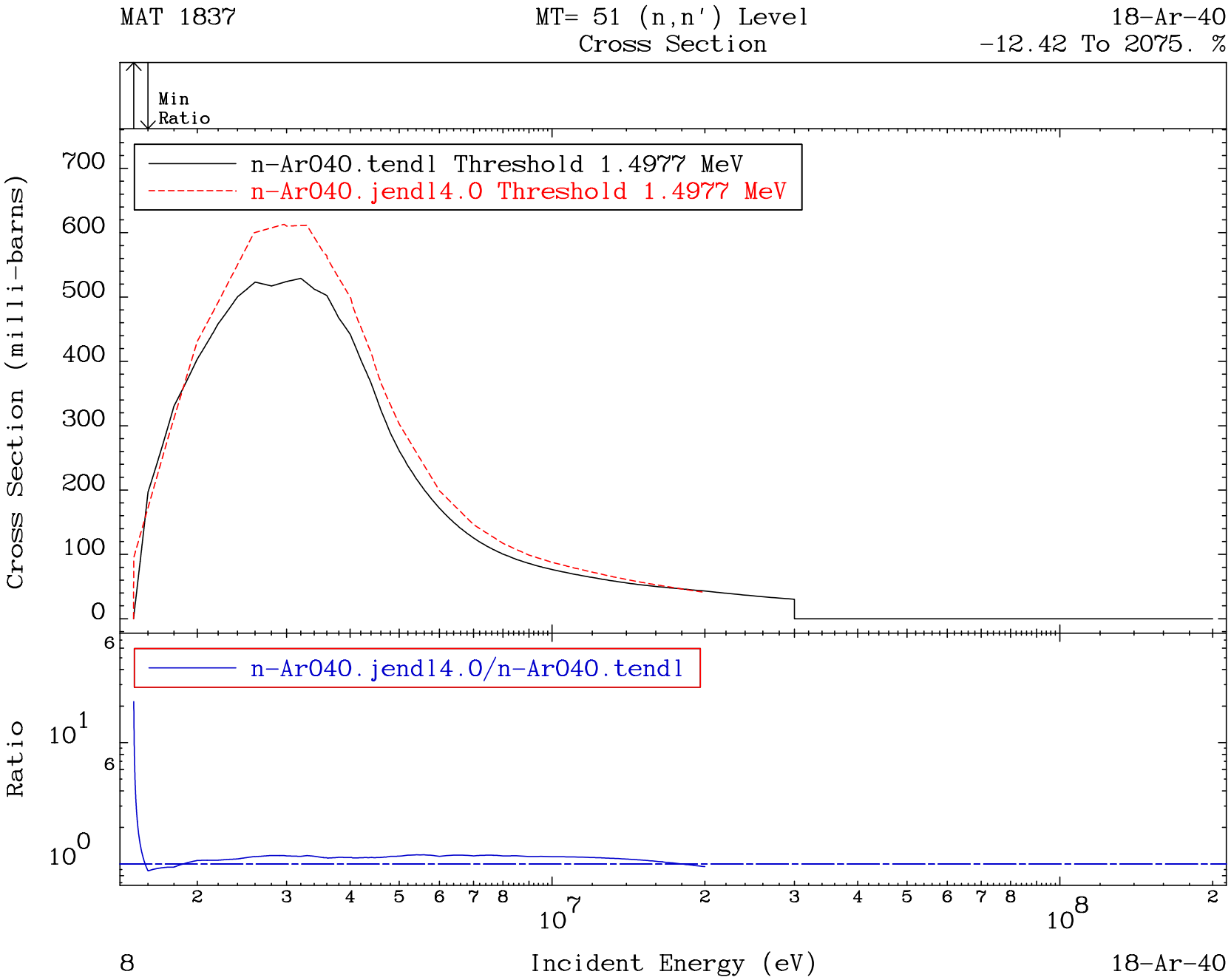

MAT 1837
Inelastic
Cross Section
18-Ar-40
-12.42 To 2075. %
Min
Ratio
n-Ar040.tendl Threshold 1.4977 MeV
n-Ar040.jendl4.0 Threshold 1.4977 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
6
10^1
6
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
18-Ar-40

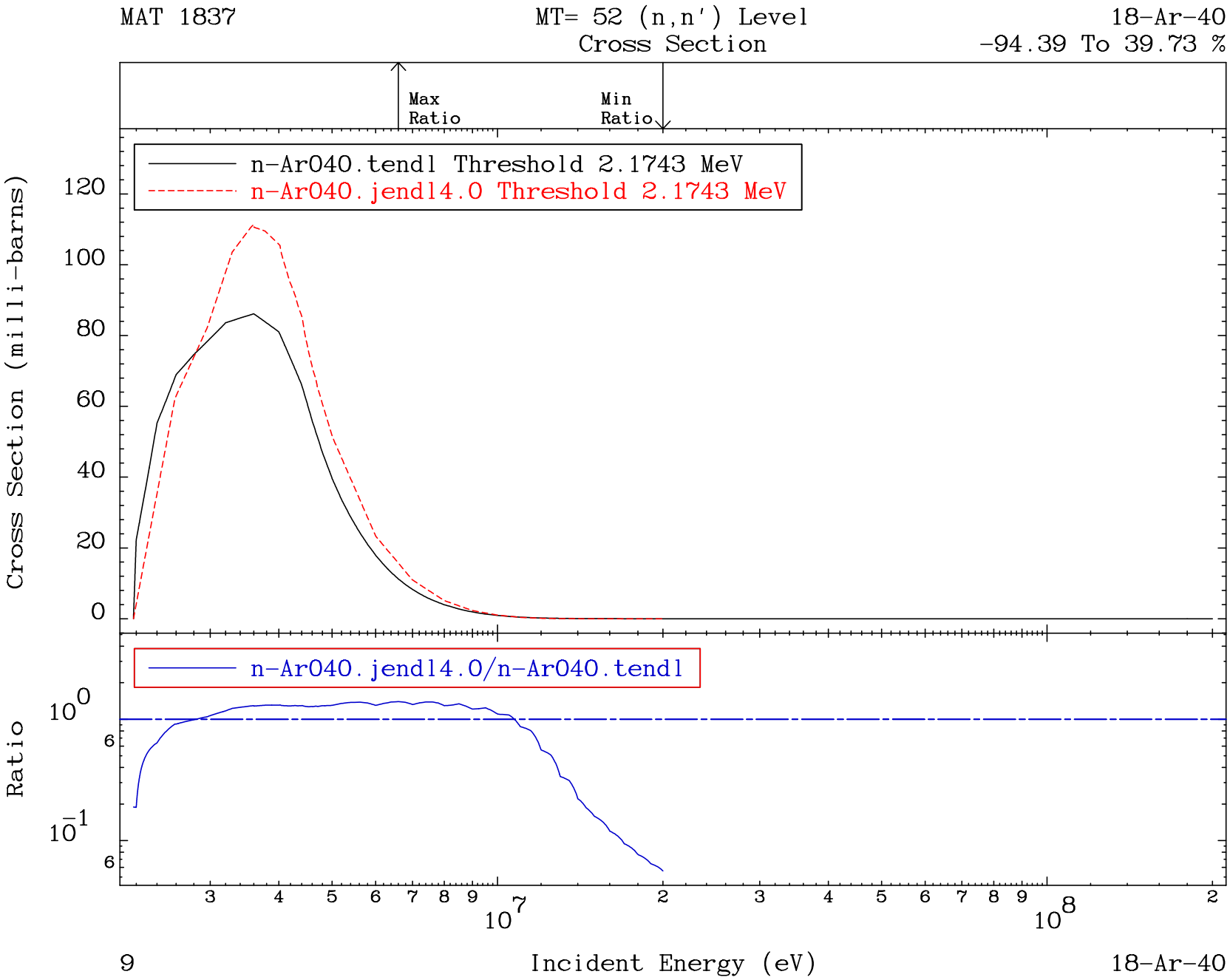

MAT 1837
(n,2n)
Cross Section
18-Ar-40
24.78 To 128.1 %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 10.209 MeV
n-Ar040.jendl4.0 Threshold 10.120 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
2.4
2.0
1.6
1.2
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
18-Ar-40

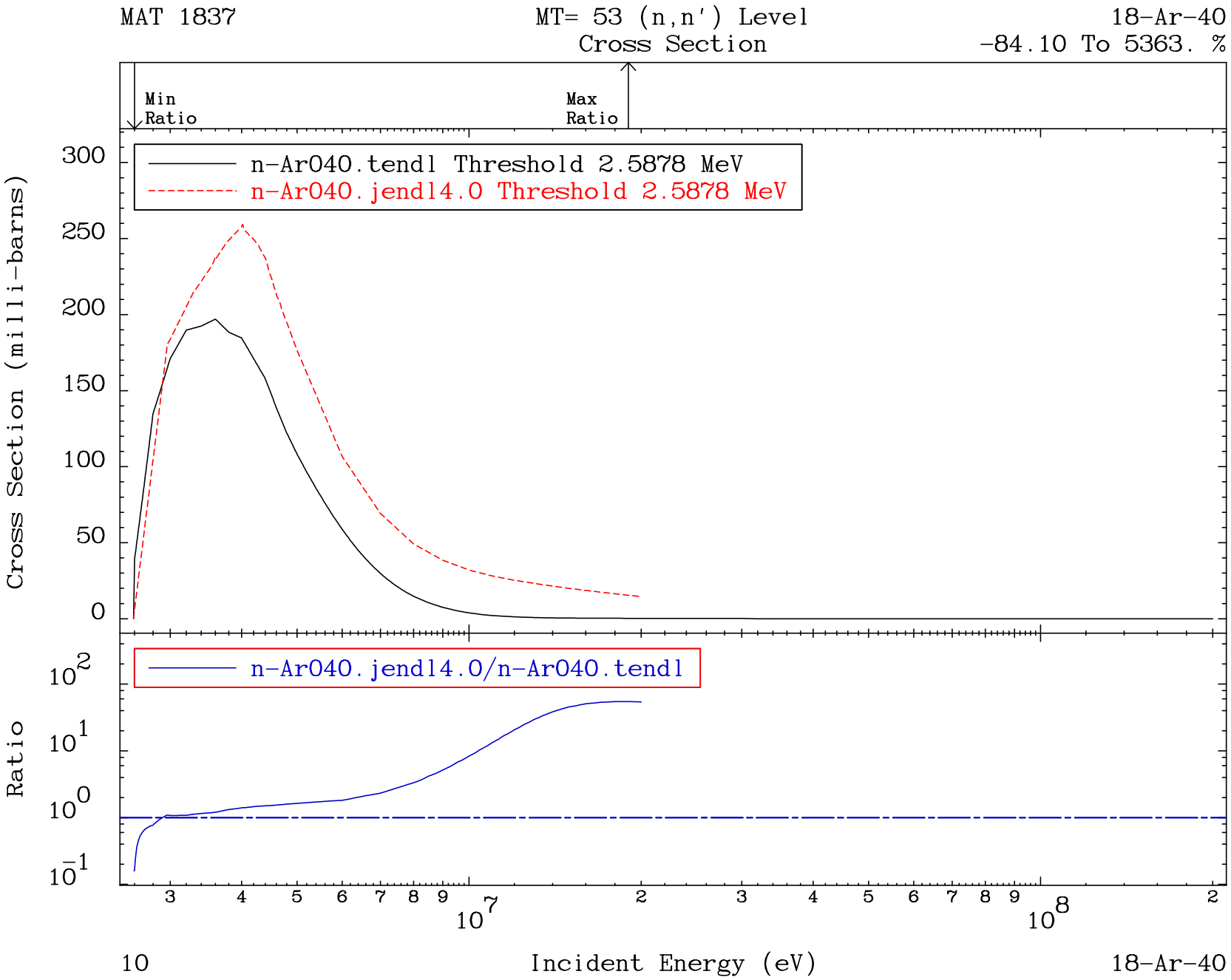

MAT 1837
(n,3n)
Cross Section
18-Ar-40
158.7 To 9999. %
Min
Ratio
n-Ar040.tendl Threshold 16.974 MeV
n-Ar040.jendl4.0 Threshold 16.884 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^2
10^1
4
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
18-Ar-40

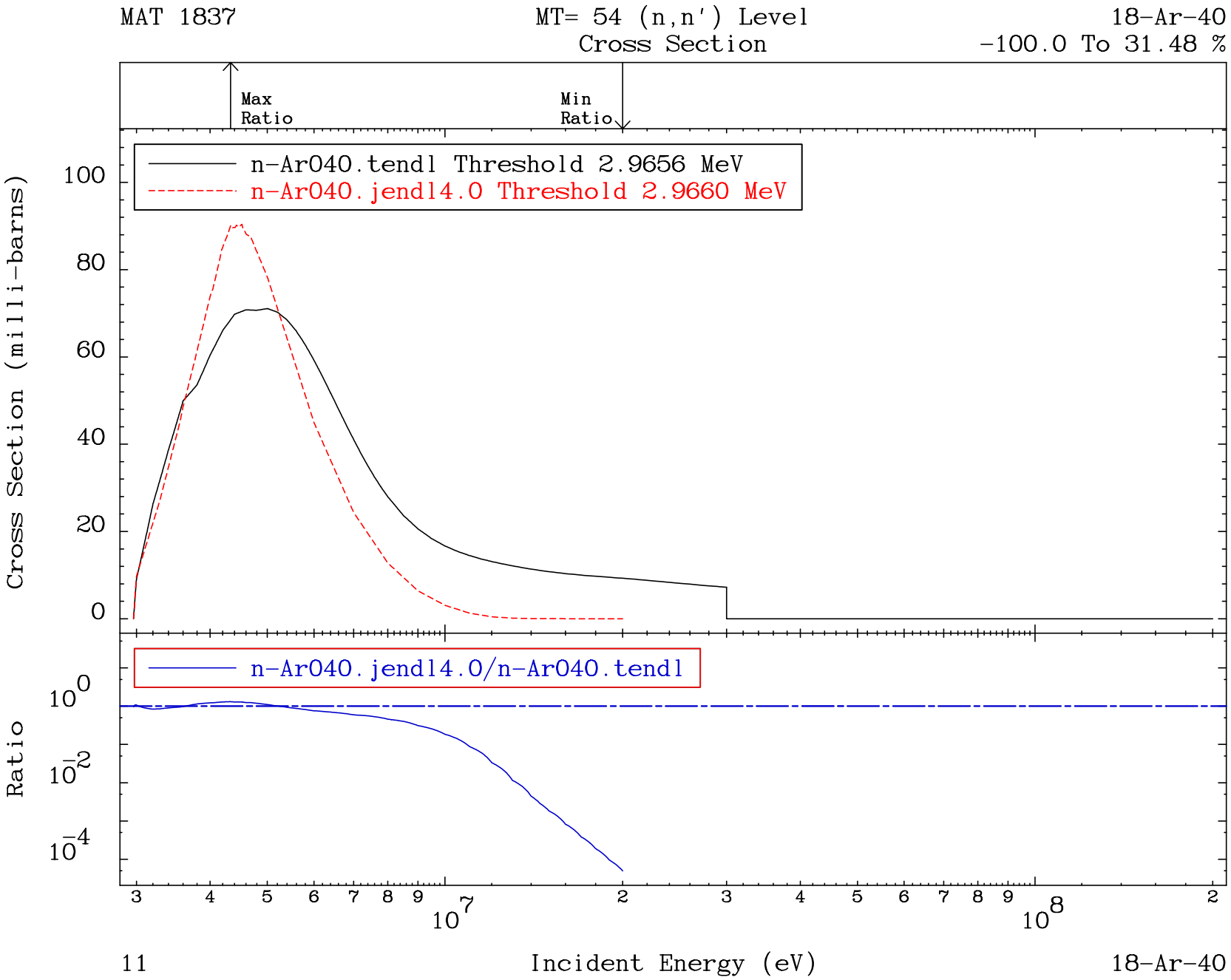

MAT 1837
(n,n') α
Cross Section
18-Ar-40
-93.93 To 9999. %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 7.0631 MeV
n-Ar040.jendl4.0 Threshold 7.0000 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^2
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
18-Ar-40

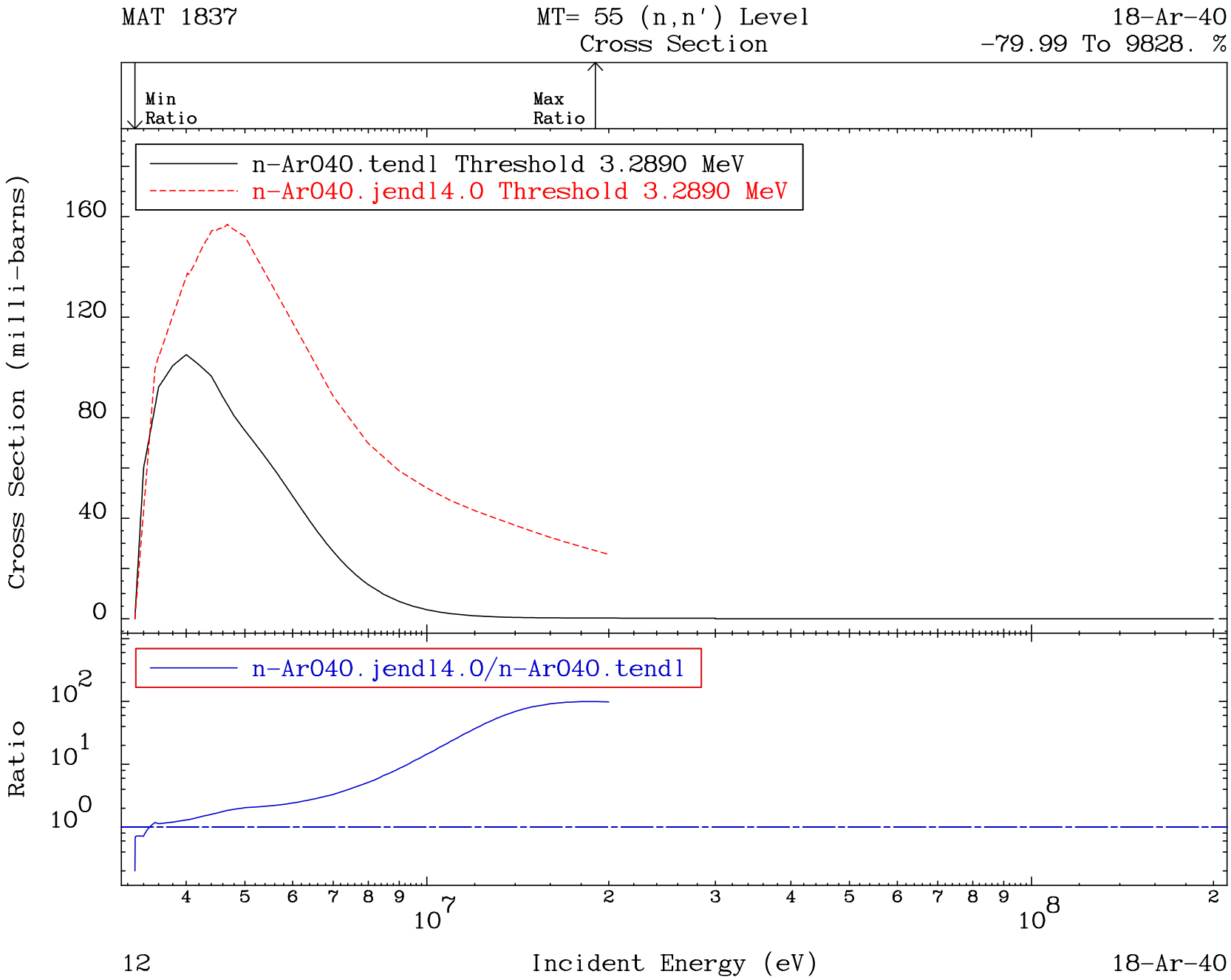

MAT 1837
(n,n') p
Cross Section
18-Ar-40
-67.52 To 9999. %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 12.936 MeV
n-Ar040.jendl4.0 Threshold 13.000 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
18-Ar-40

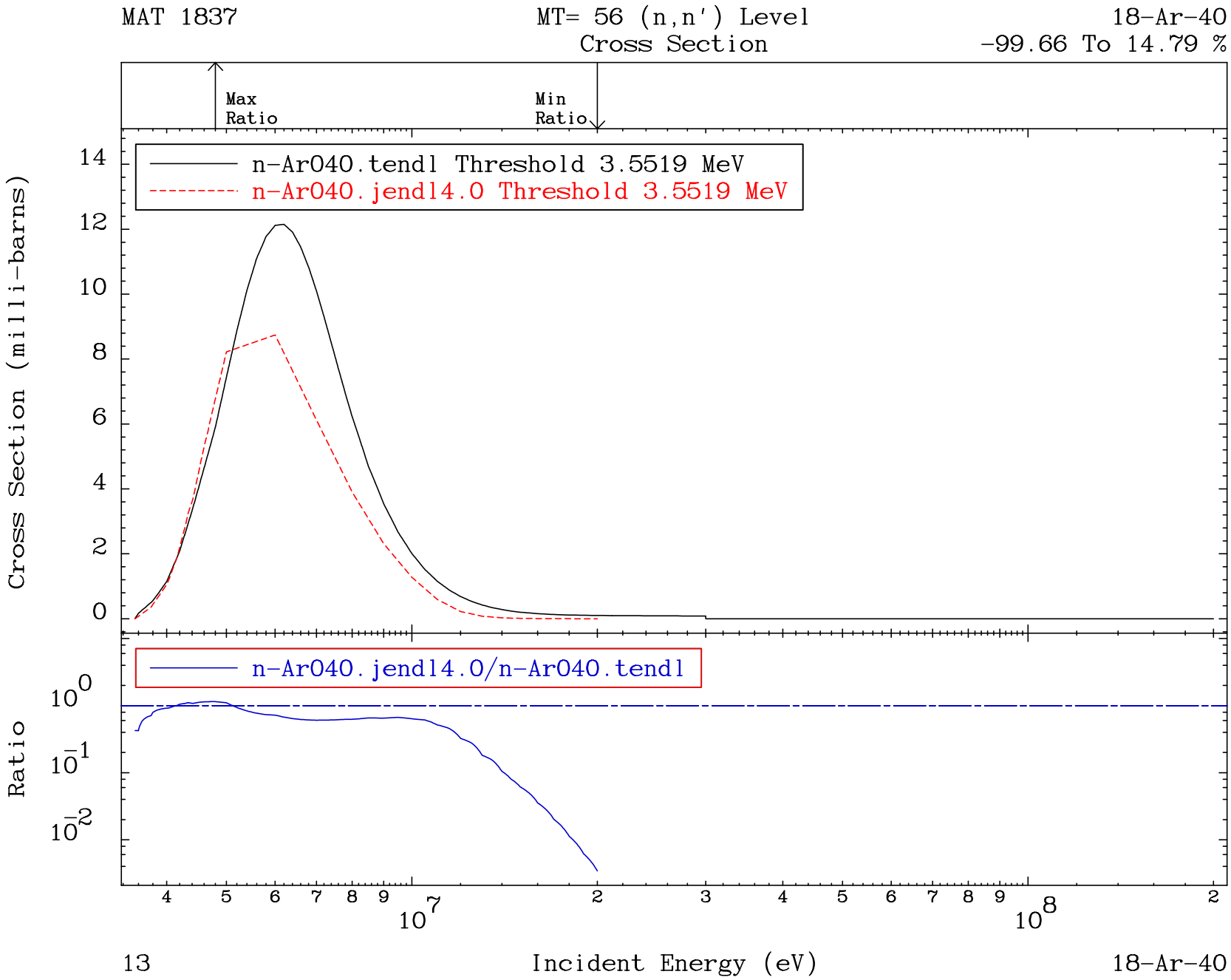

MAT 1837
MT= 51 (n,n') Level
Cross Section
18-Ar-40
-12.42 To 2075. %
Min
Ratio
n-Ar040.tendl Threshold 1.4977 MeV
n-Ar040.jendl4.0 Threshold 1.4977 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
6
10^1
6
10^0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
8
Incident Energy (eV)
18-Ar-40

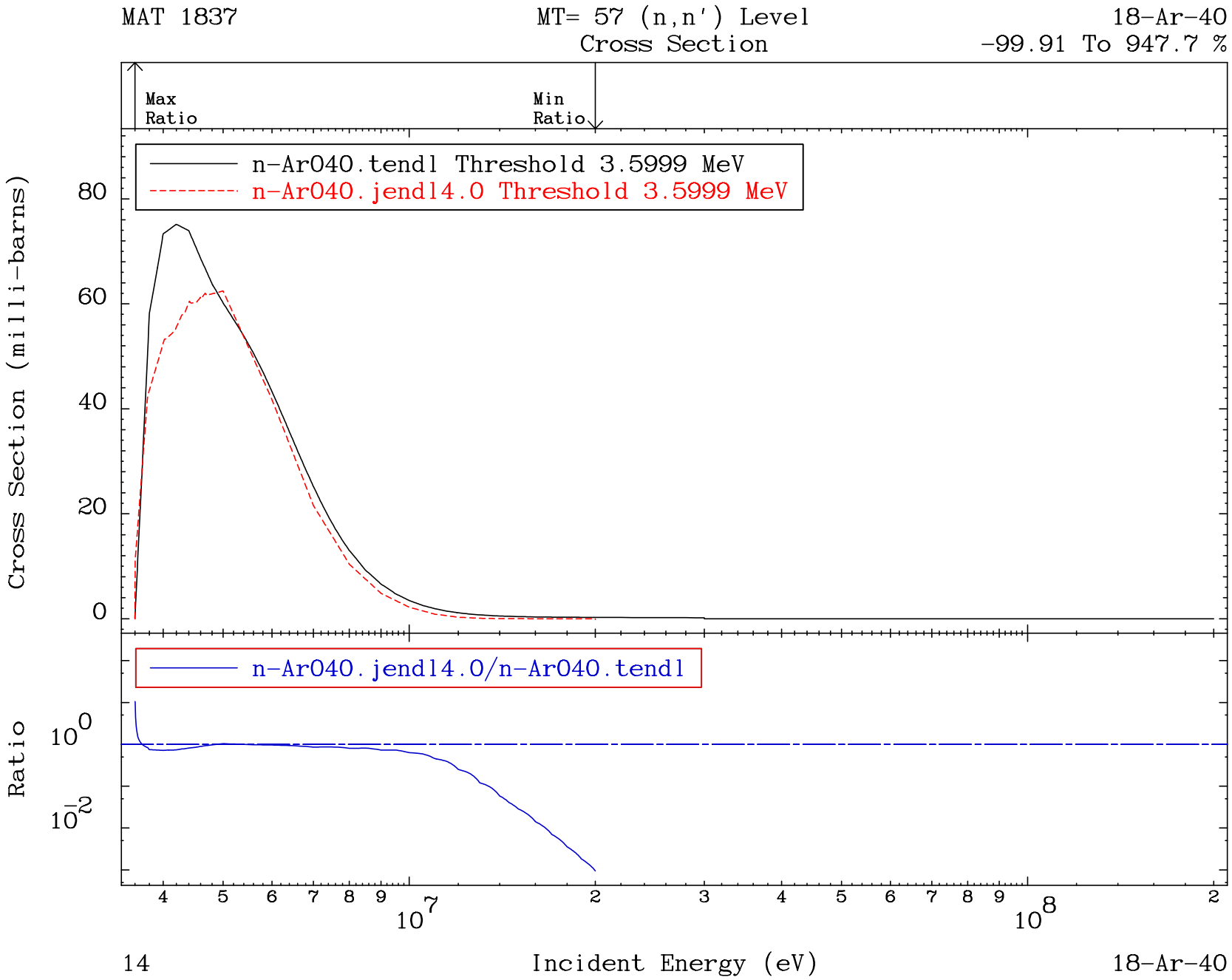

MAT 1837
MT= 52 (n,n') Level
Cross Section
18-Ar-40
-94.39 To 39.73 %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 2.1743 MeV
n-Ar040.jendl4.0 Threshold 2.1743 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^0
10^-1
6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
9
Incident Energy (eV)
18-Ar-40

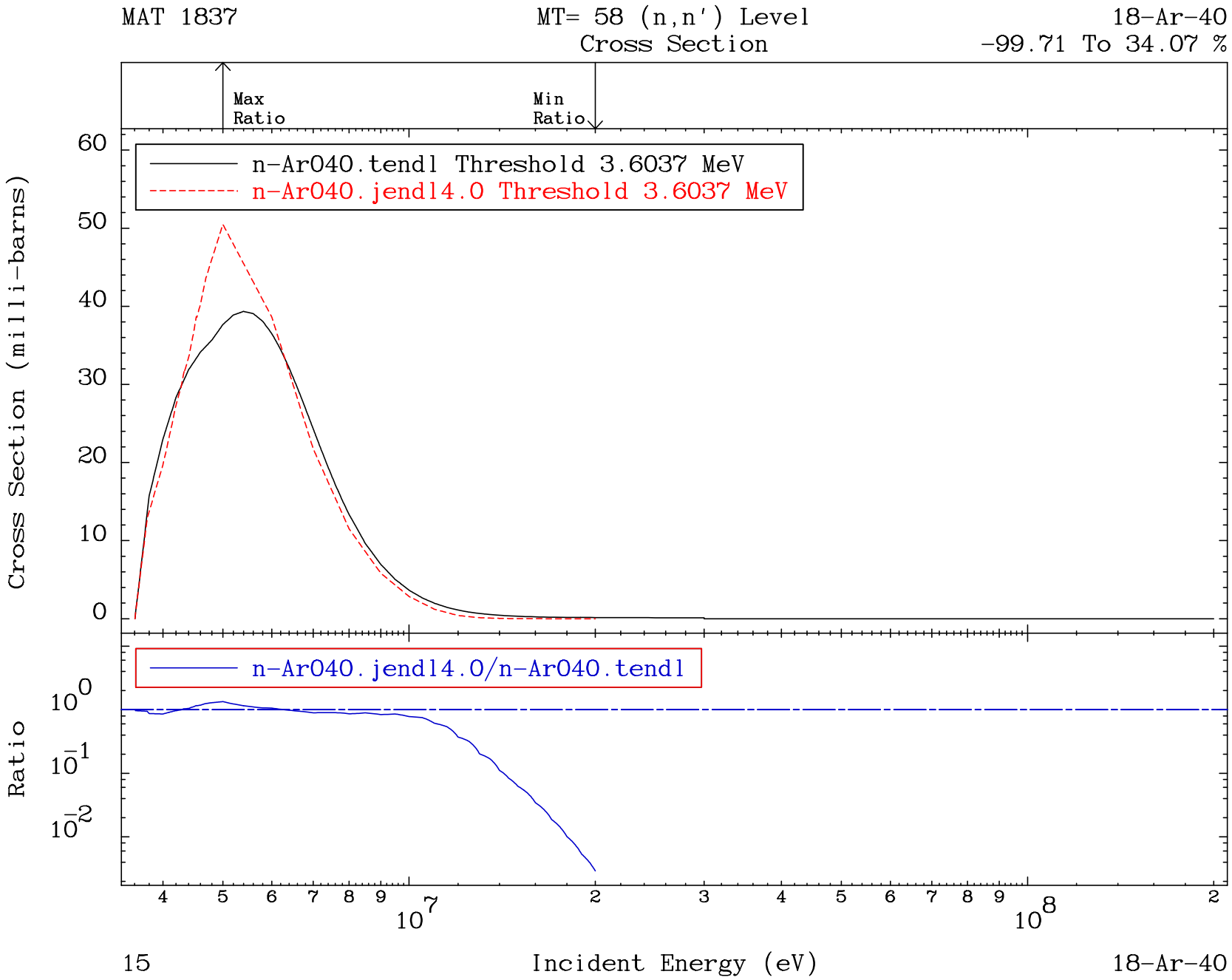

MAT 1837
MT= 53 (n,n') Level
Cross Section
18-Ar-40
-84.10 To 5363. %
Min
Ratio
Max
Ratio
n-Ar040.tendl Threshold 2.5878 MeV
n-Ar040.jendl4.0 Threshold 2.5878 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^2
10^1
10^0
10^-1
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
10
Incident Energy (eV)
18-Ar-40

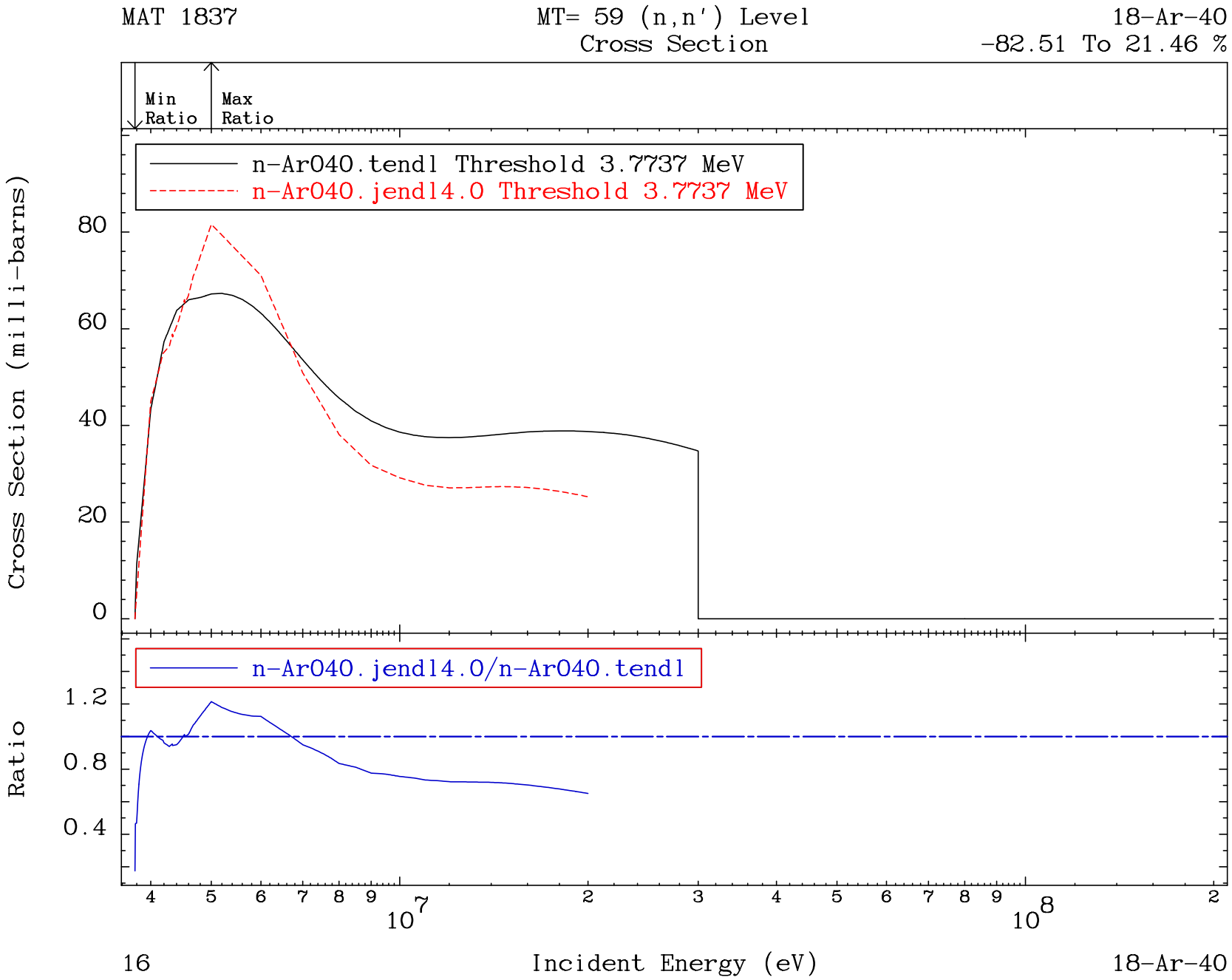

MAT 1837
MT= 54 (n,n') Level
Cross Section
18-Ar-40
-100.0 To 31.48 %
Max
Ratio
Min
Ratio
n-Ar040.tendl Threshold 2.9656 MeV
n-Ar040.jendl4.0 Threshold 2.9660 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^0
10^-2
10^-4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
18-Ar-40

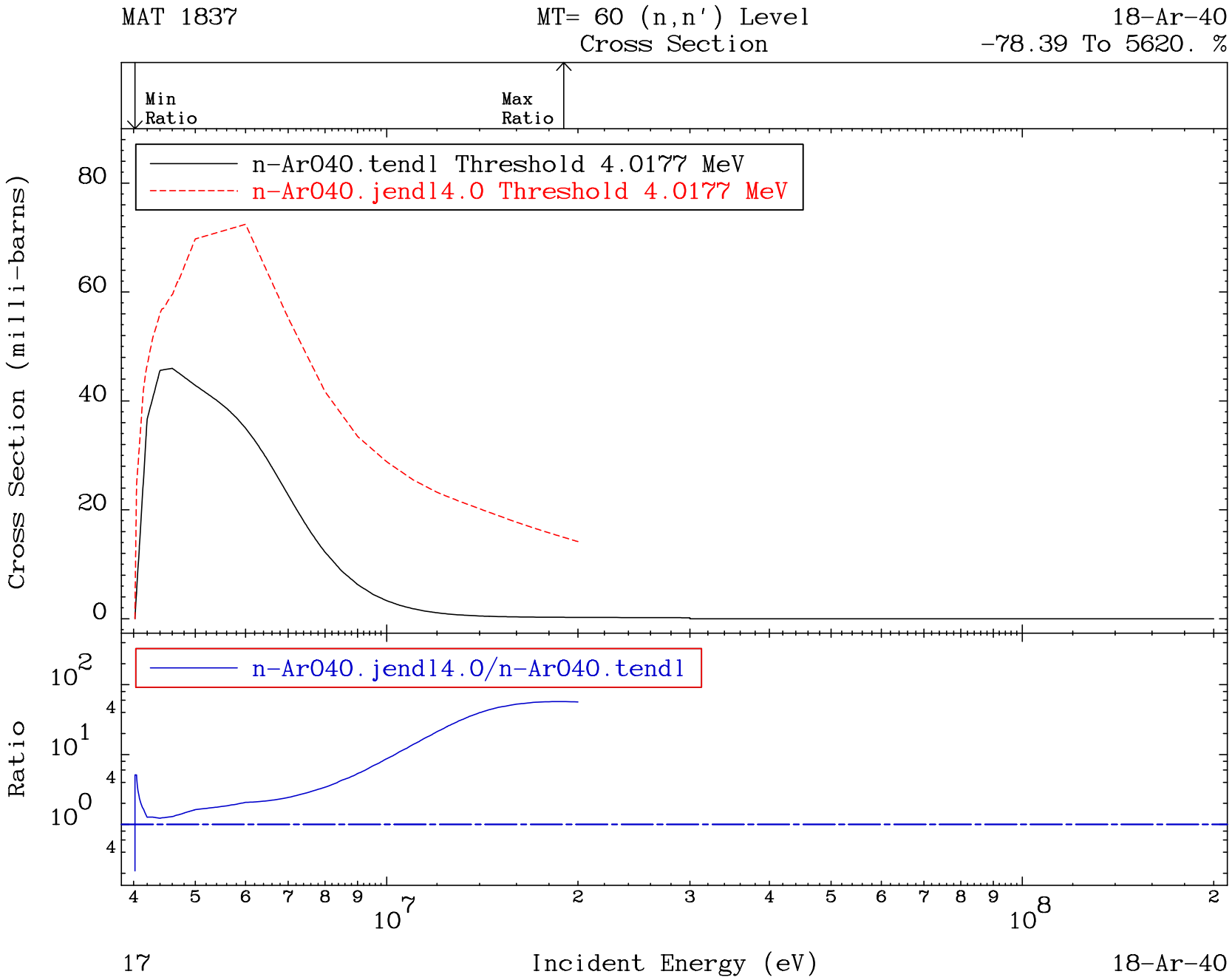

MAT 1837
MT= 55 (n,n') Level
Cross Section
18-Ar-40
-79.99 To 9828. %
Min Ratio
Max Ratio
n-Ar040.tendl Threshold 3.2890 MeV
n-Ar040.jendl4.0 Threshold 3.2890 MeV
Cross Section (milli-barns)
160
120
80
40
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^2
10^1
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
12
Incident Energy (eV)
18-Ar-40

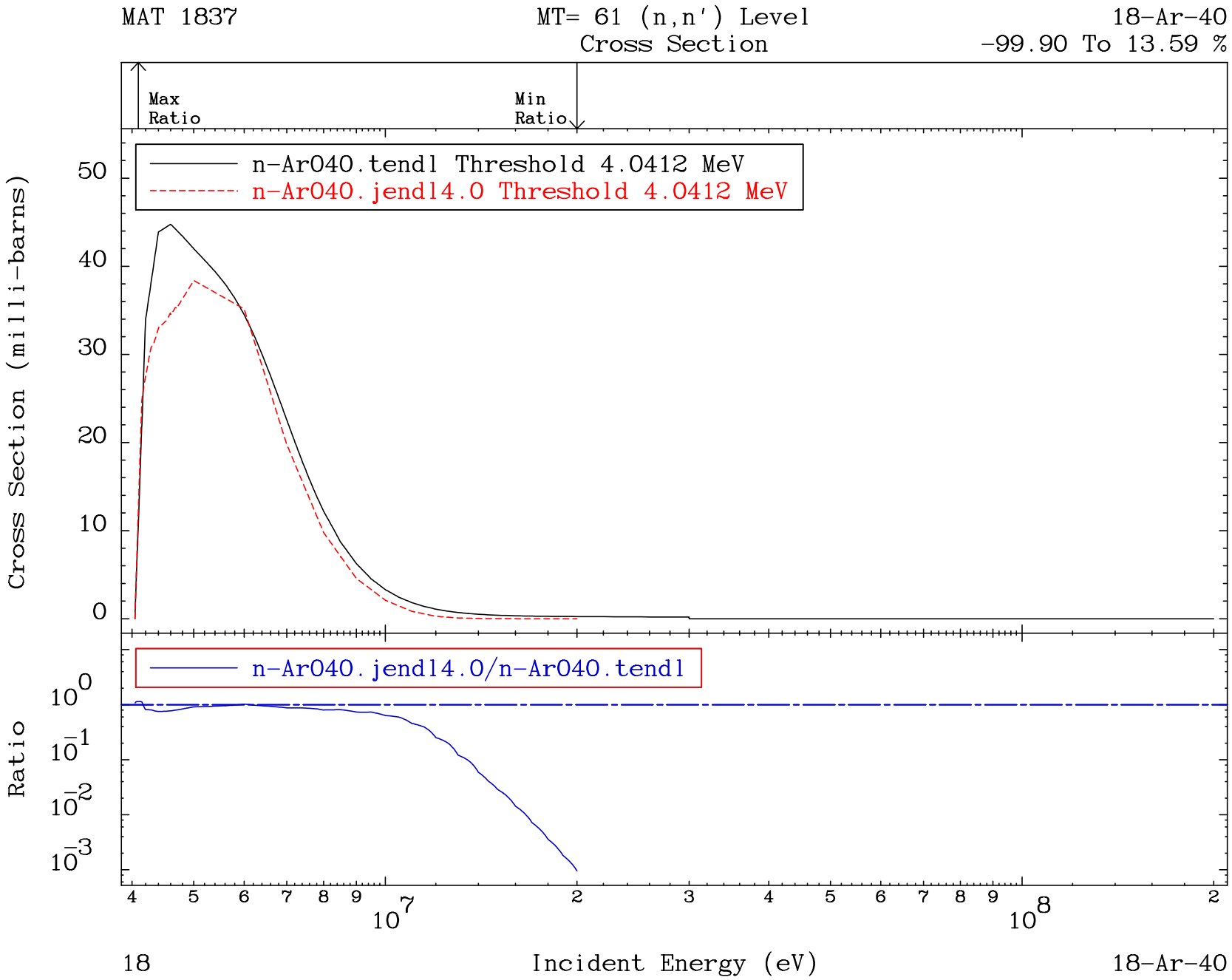

MAT 1837
MT= 56 (n,n') Level
Cross Section
18-Ar-40
-99.66 To 14.79 %
Max
Ratio
Min
Ratio
n-Ar040.tendl Threshold 3.5519 MeV
n-Ar040.jendl4.0 Threshold 3.5519 MeV
Cross Section (milli-barns)
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
Incident Energy (eV)
13
18-Ar-40

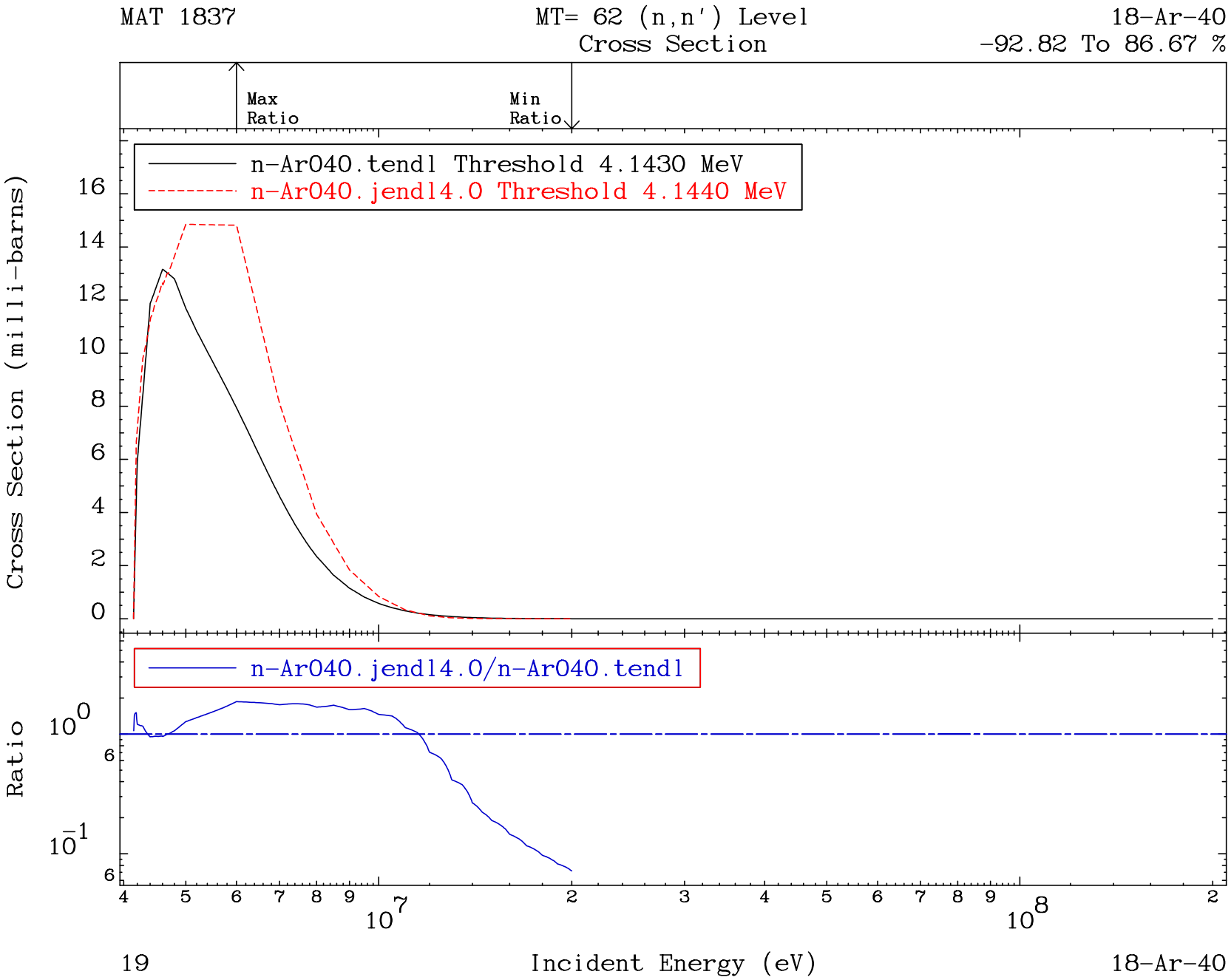

MAT 1837
MT= 57 (n,n') Level
Cross Section
18-Ar-40
-99.91 To 947.7 %
Max
Ratio
Min
Ratio
n-Ar040.tendl Threshold 3.5999 MeV
n-Ar040.jendl4.0 Threshold 3.5999 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^0
10^-2
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
14
Incident Energy (eV)
18-Ar-40

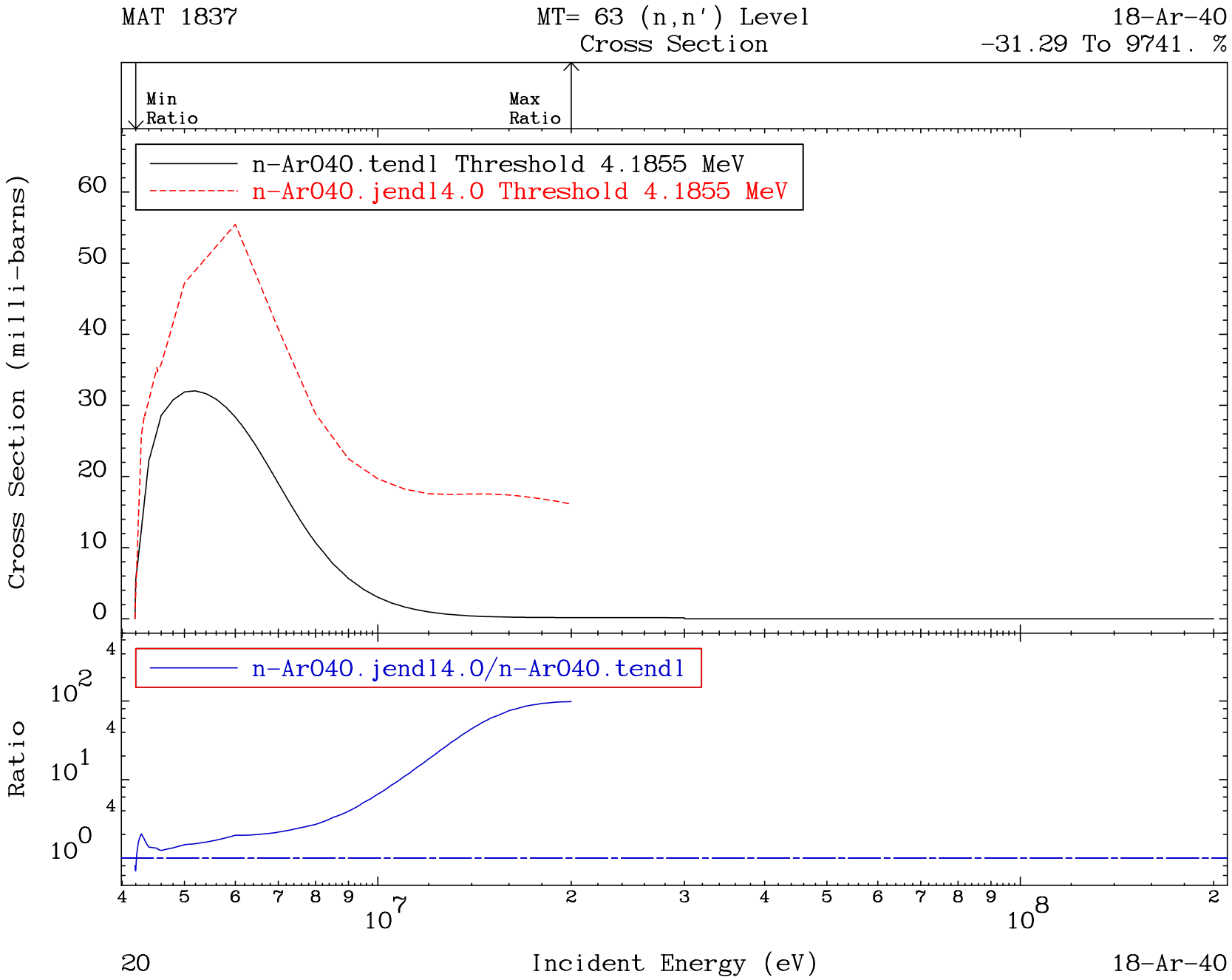

MAT 1837
MT= 58 (n,n') Level
Cross Section
18-Ar-40
-99.71 To 34.07 %
Max
Ratio
Min
Ratio
n-Ar040.tendl Threshold 3.6037 MeV
n-Ar040.jendl4.0 Threshold 3.6037 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^0
10^-1
10^-2
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
15
Incident Energy (eV)
18-Ar-40

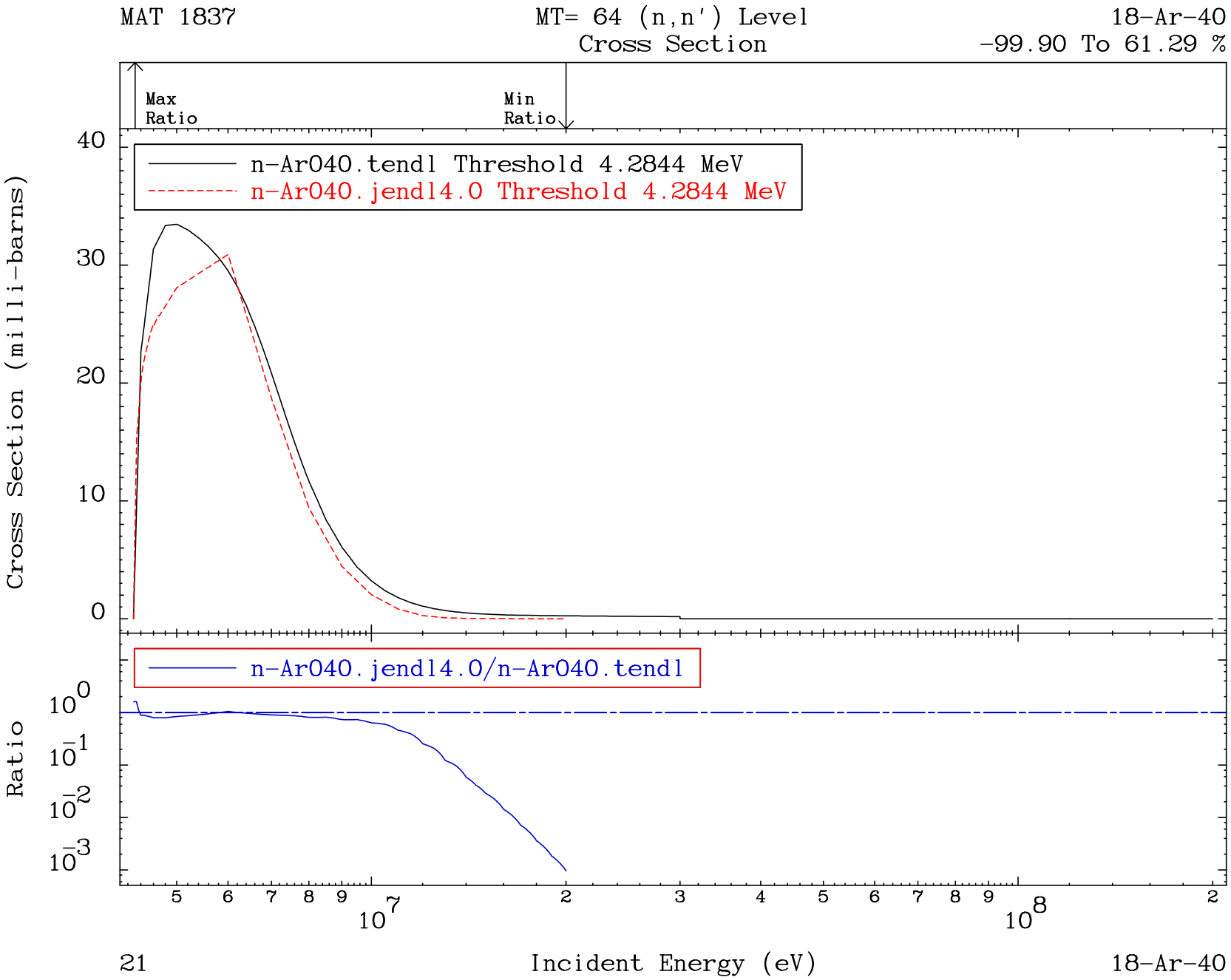

MAT 1837
MT= 59 (n,n') Level
Cross Section
18-Ar-40
-82.51 To 21.46 %
Min Ratio
Max Ratio
n-Ar040.tendl Threshold 3.7737 MeV
n-Ar040.jendl4.0 Threshold 3.7737 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
1.2
0.8
0.4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
16
Incident Energy (eV)
18-Ar-40

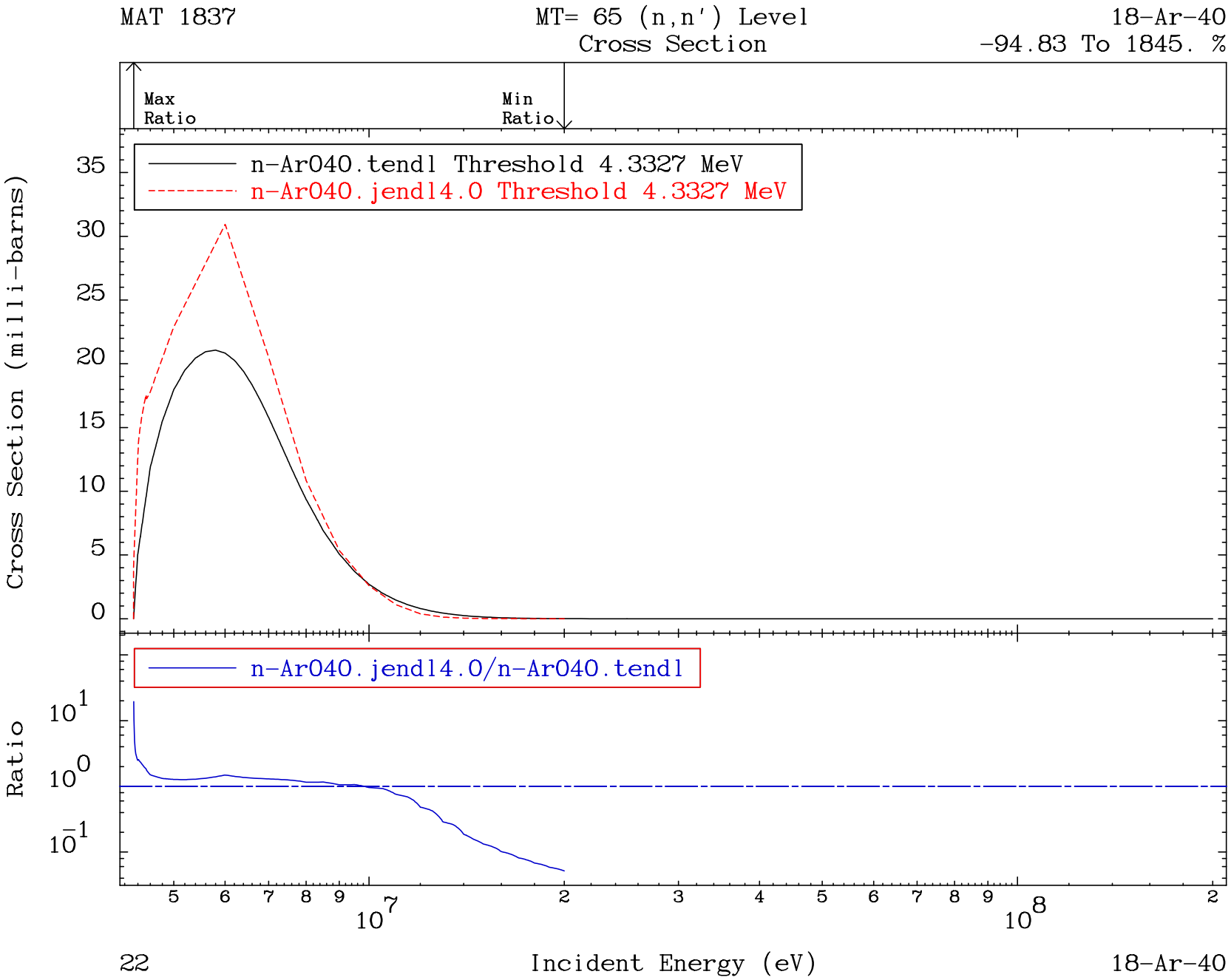

MAT 1837
MT= 60 (n,n') Level
Cross Section
18-Ar-40
-78.39 To 5620. %
Min Ratio
Max Ratio
n-Ar040.tendl Threshold 4.0177 MeV
n-Ar040.jendl4.0 Threshold 4.0177 MeV
Cross Section (milli-barns)
0
20
40
60
80
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^2
10^1
10^0
4
10^7
10^8
17
Incident Energy (eV)
18-Ar-40

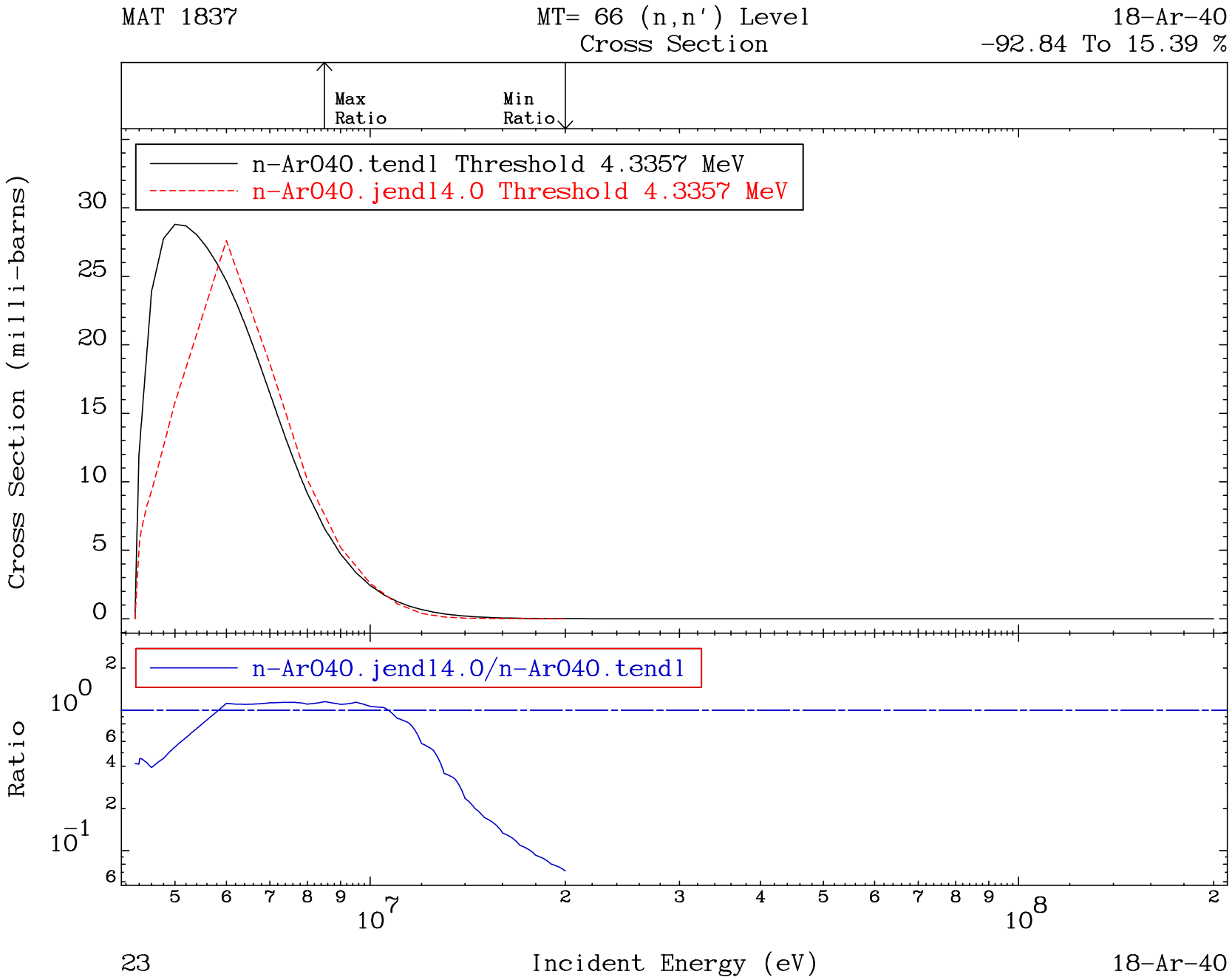

MAT 1837
MT= 61 (n,n') Level
Cross Section
18-Ar-40
-99.90 To 13.59 %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 4.0412 MeV
n-Ar040.jendl4.0 Threshold 4.0412 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^0
10^-1
10^-2
10^-3
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
18
Incident Energy (eV)
18-Ar-40

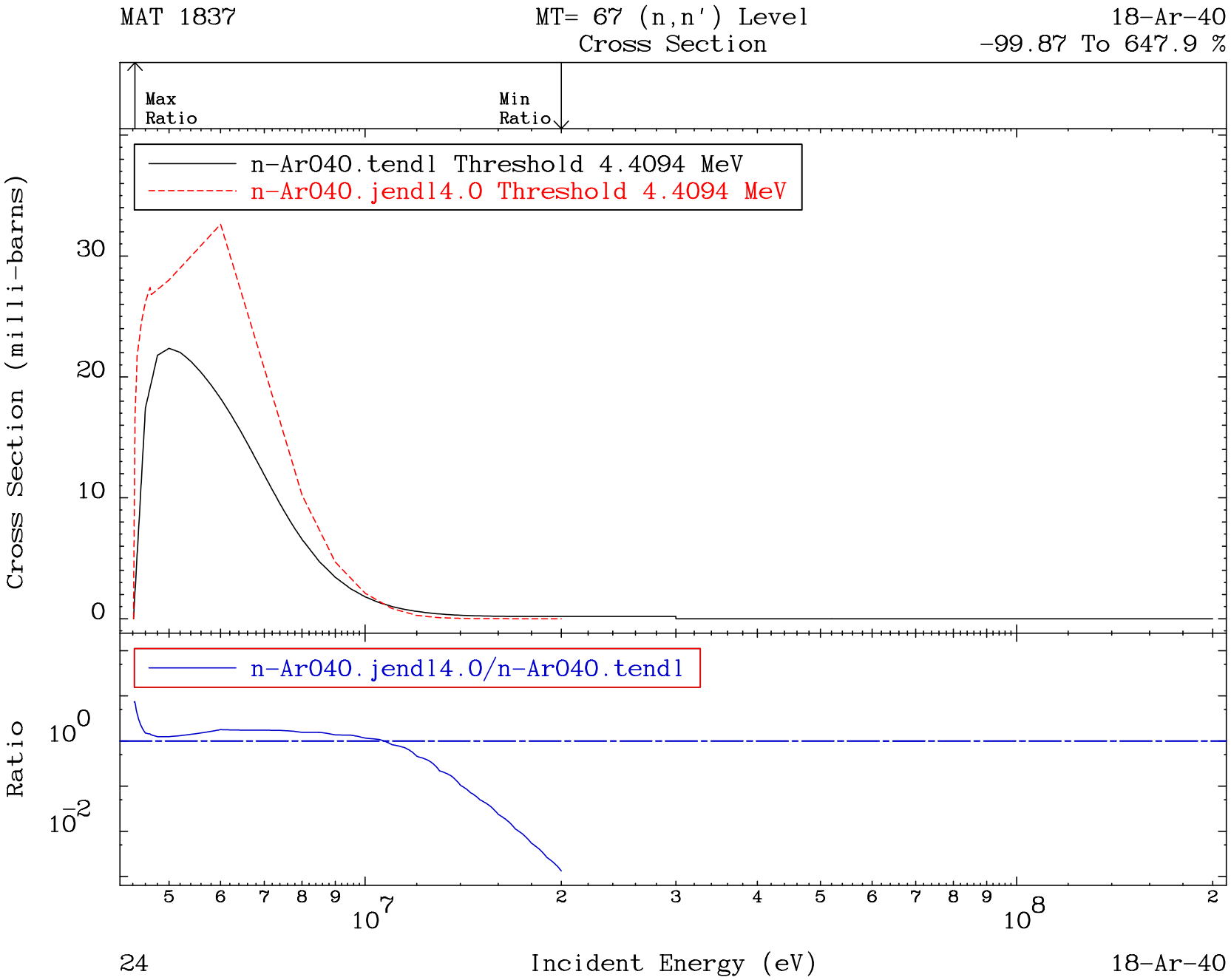

MAT 1837
MT= 62 (n,n') Level
Cross Section
18-Ar-40
-92.82 To 86.67 %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 4.1430 MeV
n-Ar040.jendl4.0 Threshold 4.1440 MeV
Cross Section (milli-barns)
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
Incident Energy (eV)
19
18-Ar-40

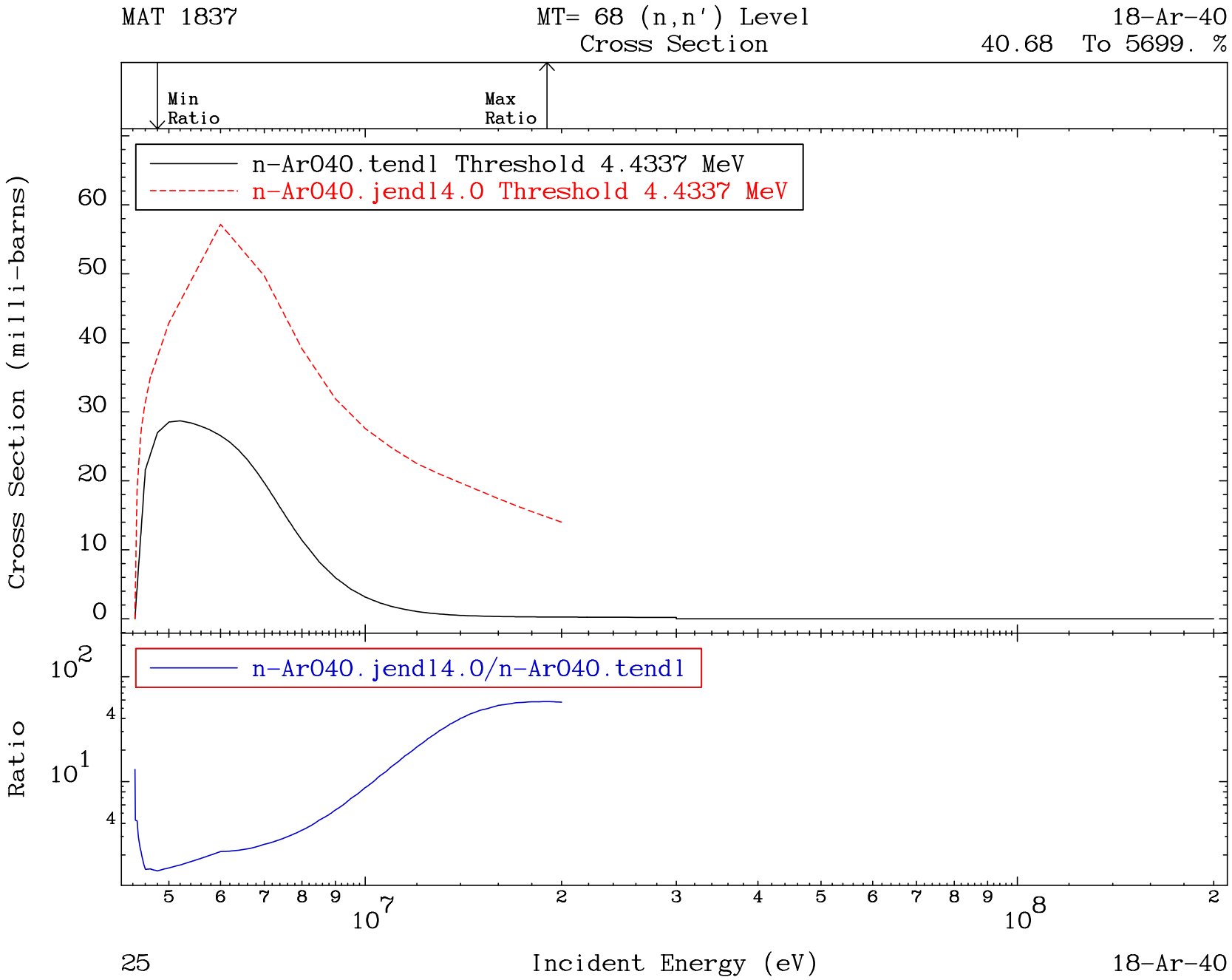

MAT 1837
MT= 63 (n,n') Level
Cross Section
18-Ar-40
-31.29 To 9741. %
Min Ratio
Max Ratio
n-Ar040.tendl Threshold 4.1855 MeV
n-Ar040.jendl4.0 Threshold 4.1855 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^2
10^1
10^0
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
20
Incident Energy (eV)
18-Ar-40

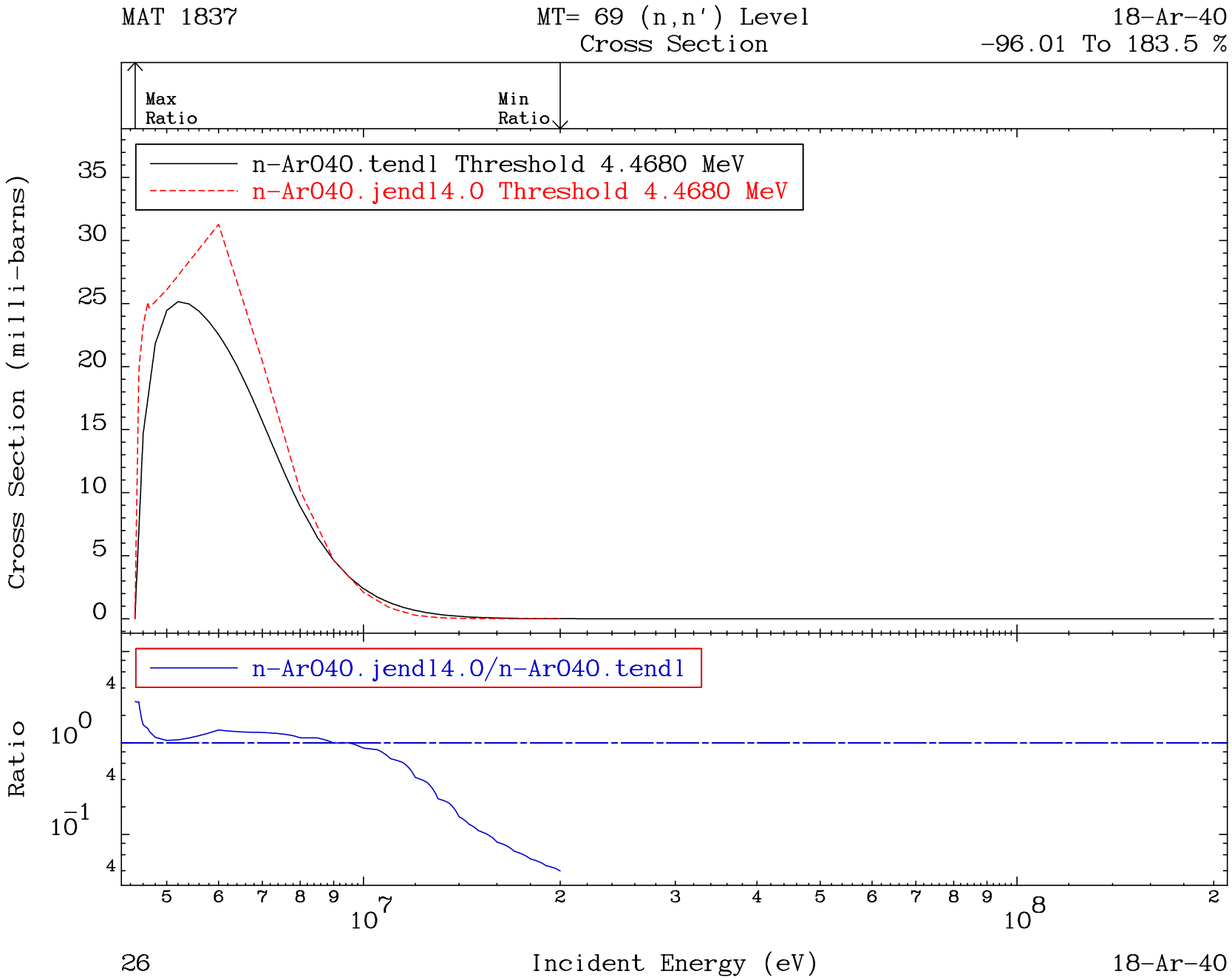

MAT 1837
MT= 64 (n,n') Level
Cross Section
18-Ar-40
-99.90 To 61.29 %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 4.2844 MeV
n-Ar040.jendl4.0 Threshold 4.2844 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^0
10^-1
10^-2
10^-3
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
21
Incident Energy (eV)
18-Ar-40

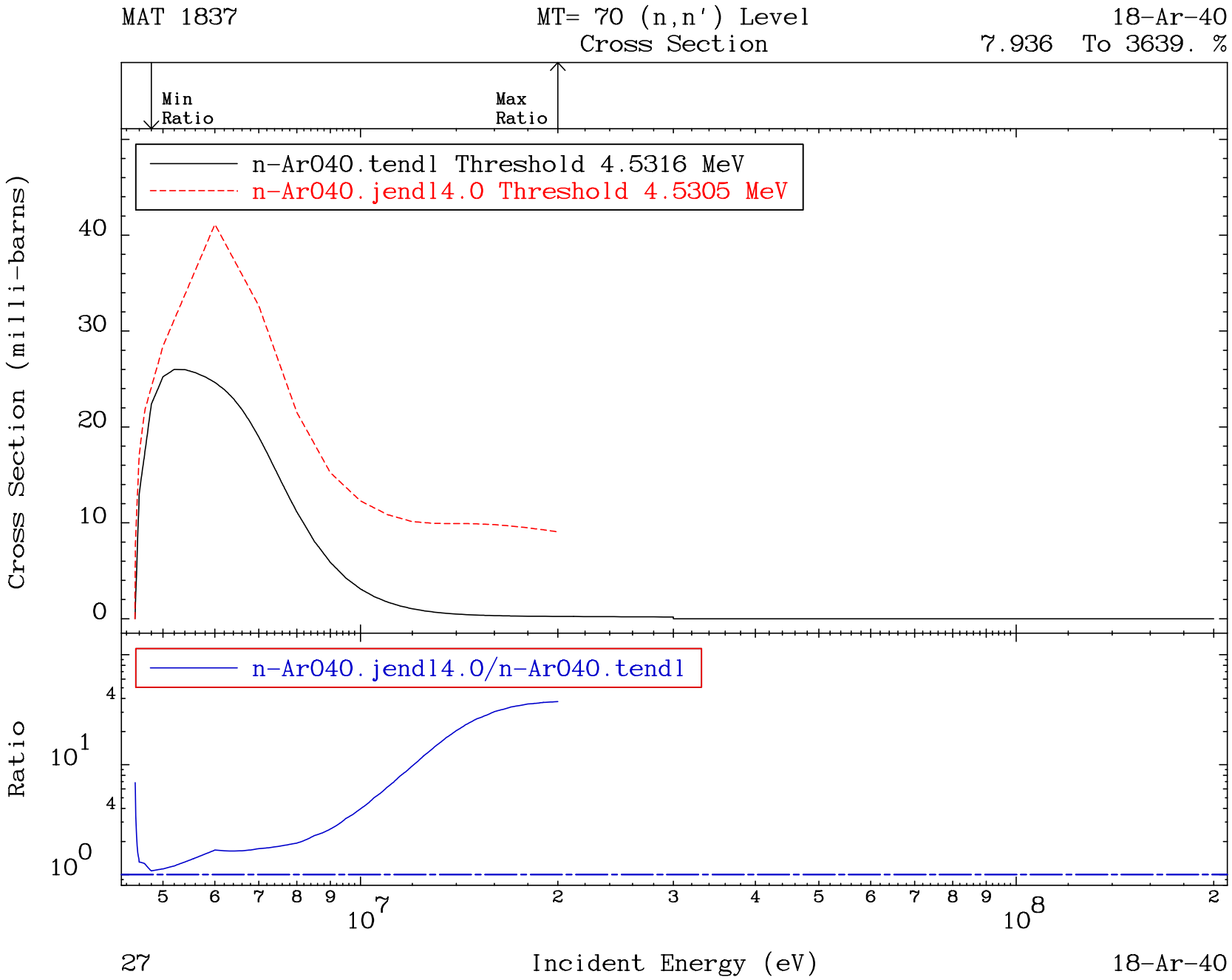

MAT 1837
MT= 65 (n,n') Level
Cross Section
18-Ar-40
-94.83 To 1845. %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 4.3327 MeV
n-Ar040.jendl4.0 Threshold 4.3327 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^1
10^0
10^-1
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
18-Ar-40

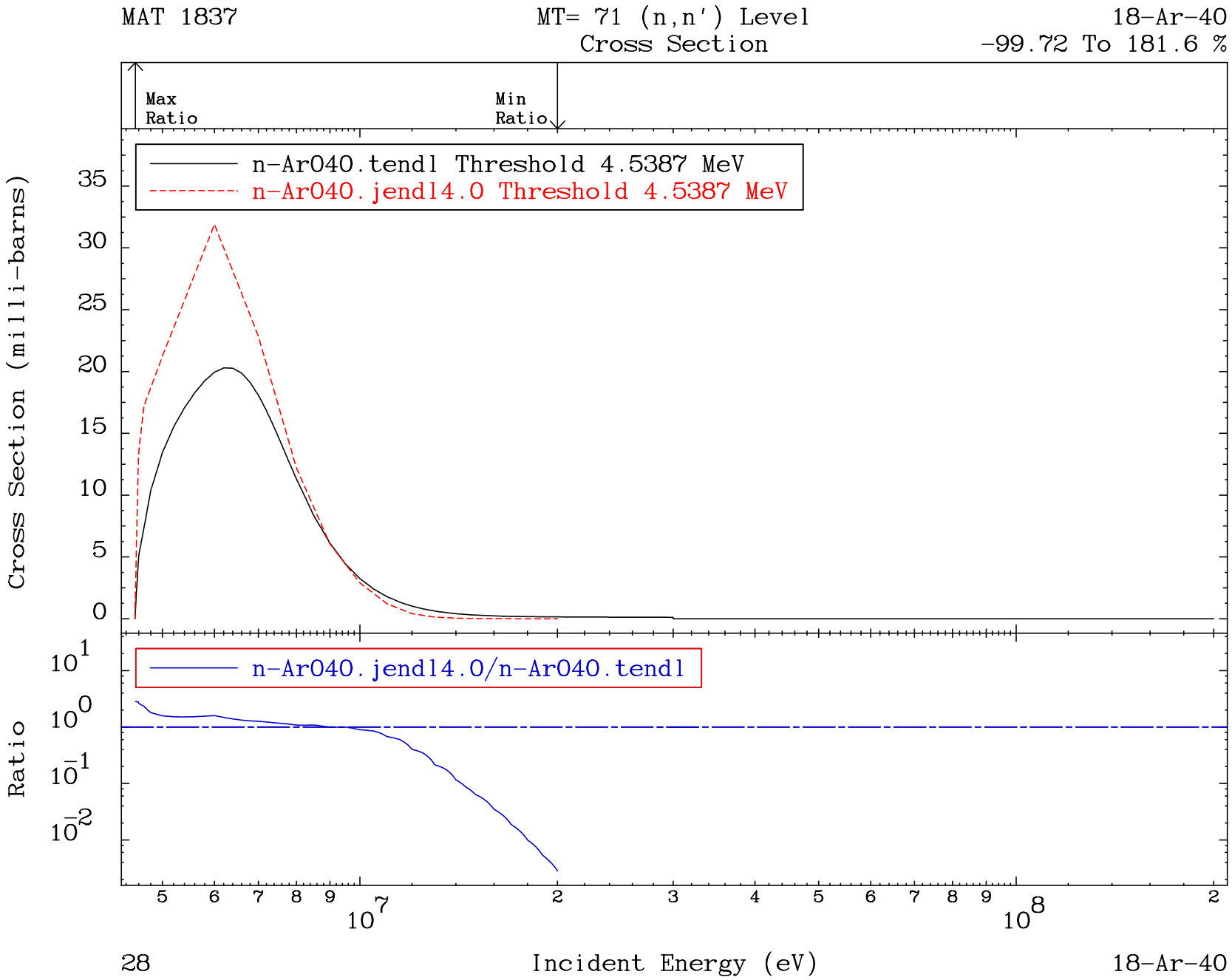

MAT 1837
MT= 66 (n,n') Level
Cross Section
18-Ar-40
-92.84 To 15.39 %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 4.3357 MeV
n-Ar040.jendl4.0 Threshold 4.3357 MeV
Cross Section (milli-barns)
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
Incident Energy (eV)
23
18-Ar-40

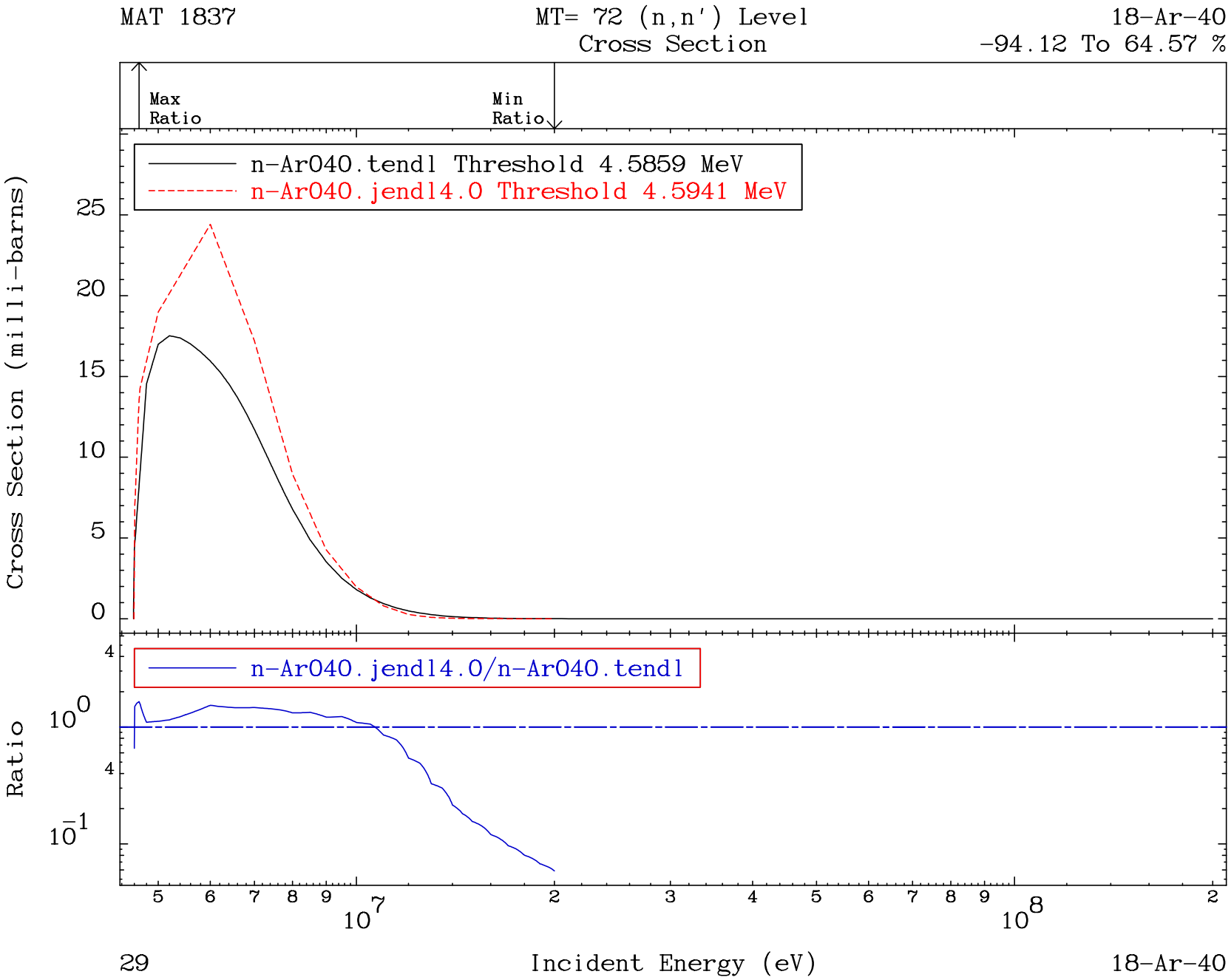

MAT 1837
MT= 67 (n,n') Level
Cross Section
18-Ar-40
-99.87 To 647.9 %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 4.4094 MeV
n-Ar040.jendl4.0 Threshold 4.4094 MeV
Cross Section (milli-barns)
30
20
10
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^0
10^-2
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
18-Ar-40

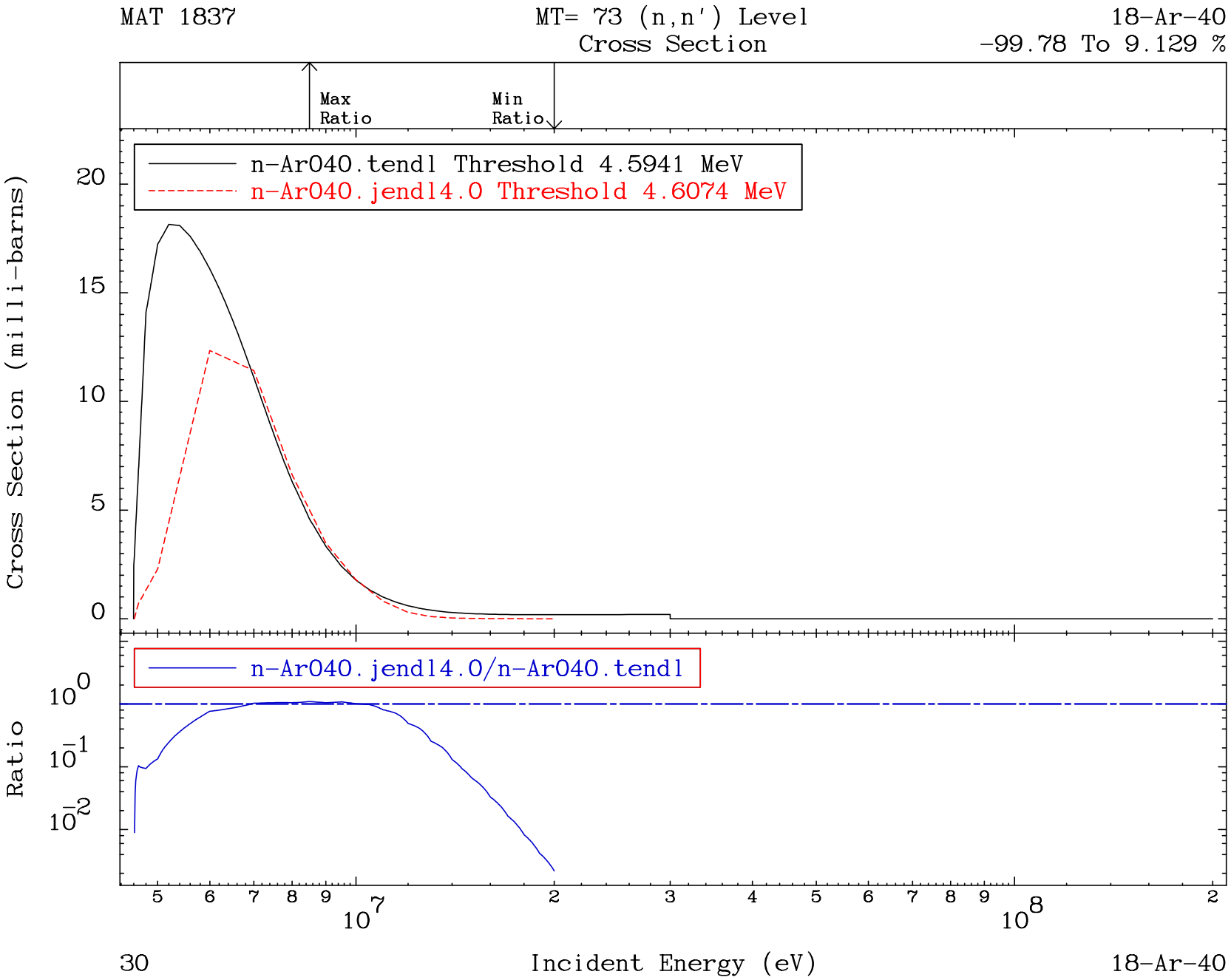

MAT 1837
MT= 68 (n,n') Level
Cross Section
18-Ar-40
40.68 To 5699. %
Min Ratio
Max Ratio
n-Ar040.tendl Threshold 4.4337 MeV
n-Ar040.jendl4.0 Threshold 4.4337 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^2
4
10^1
4
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
25
Incident Energy (eV)
18-Ar-40

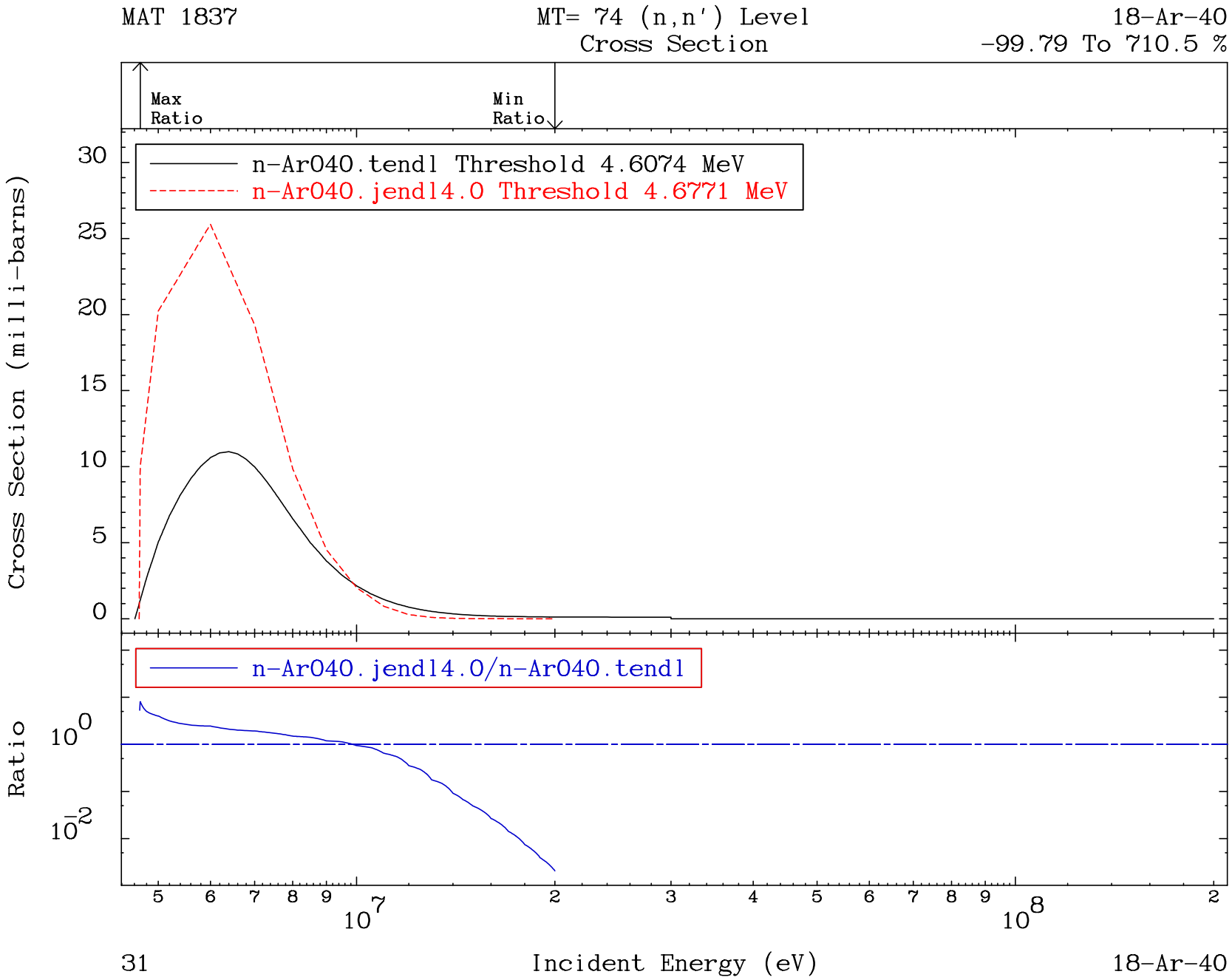

MAT 1837
MT= 69 (n,n') Level
Cross Section
18-Ar-40
-96.01 To 183.5 %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 4.4680 MeV
n-Ar040.jendl4.0 Threshold 4.4680 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
4
10^{0}
4
10^{-1}
4
5 6 7 8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
26
Incident Energy (eV)
18-Ar-40

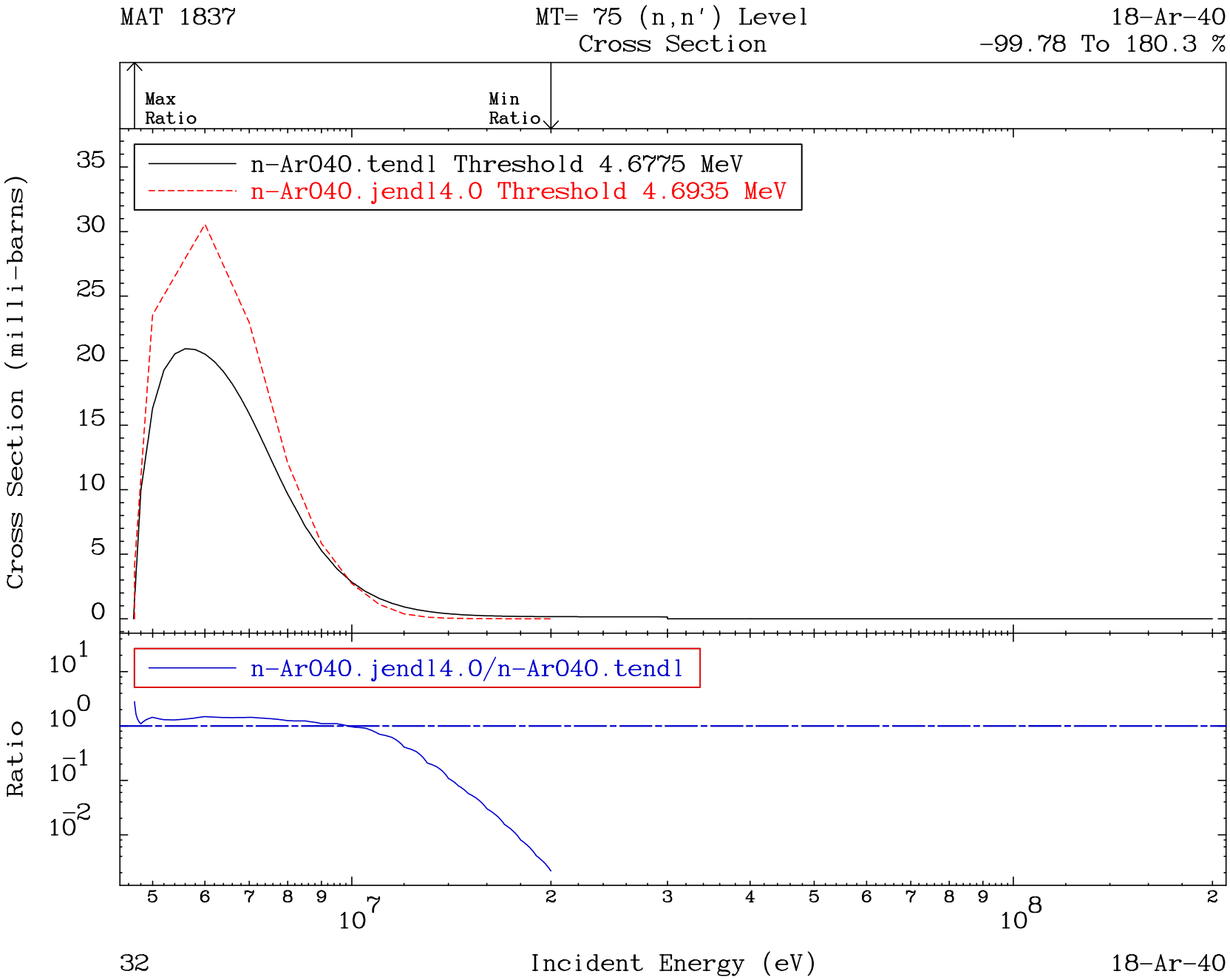

MAT 1837
MT= 70 (n,n') Level
Cross Section
18-Ar-40
7.936 To 3639. %
Min Ratio
Max Ratio
n-Ar040.tendl Threshold 4.5316 MeV
n-Ar040.jendl4.0 Threshold 4.5305 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^1
4
10^0
4
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
18-Ar-40

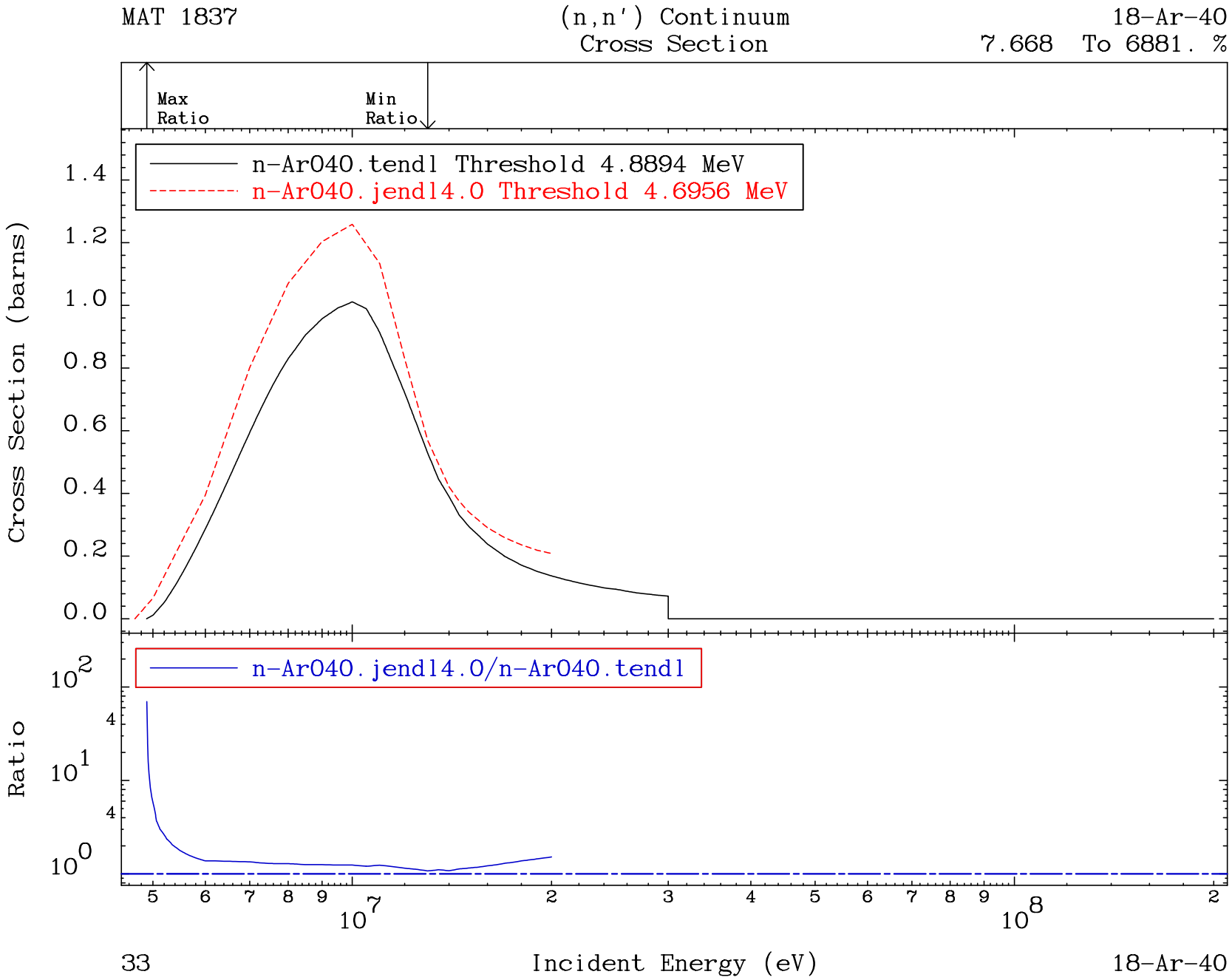

MAT 1837
MT= 71 (n,n') Level
Cross Section
18-Ar-40
-99.72 To 181.6 %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 4.5387 MeV
n-Ar040.jendl4.0 Threshold 4.5387 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^1
10^0
10^-1
10^-2
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
18-Ar-40

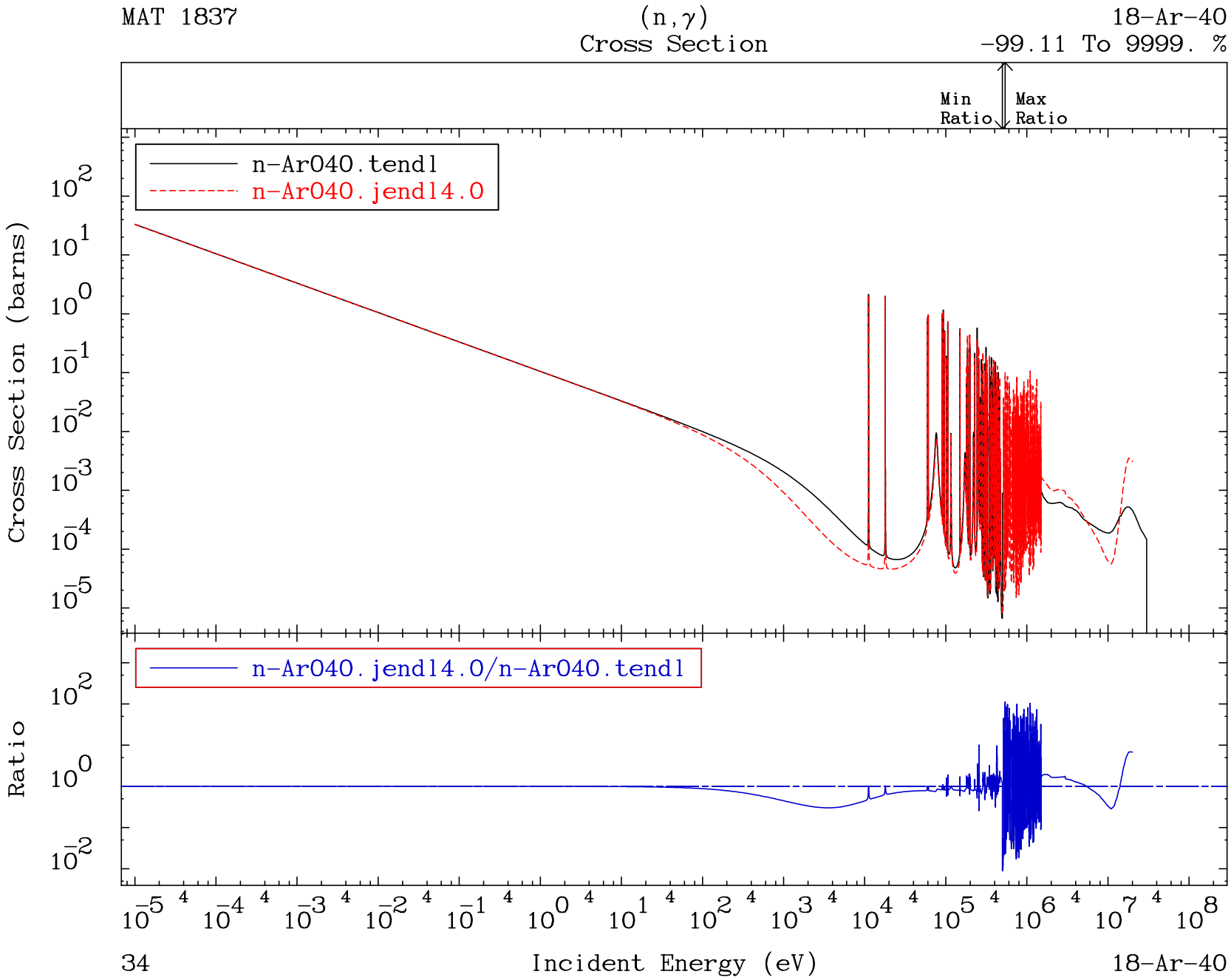

MAT 1837
MT= 72 (n,n') Level
Cross Section
18-Ar-40
-94.12 To 64.57 %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 4.5859 MeV
n-Ar040.jendl4.0 Threshold 4.5941 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
4
10^0
4
10^{-1}
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
18-Ar-40

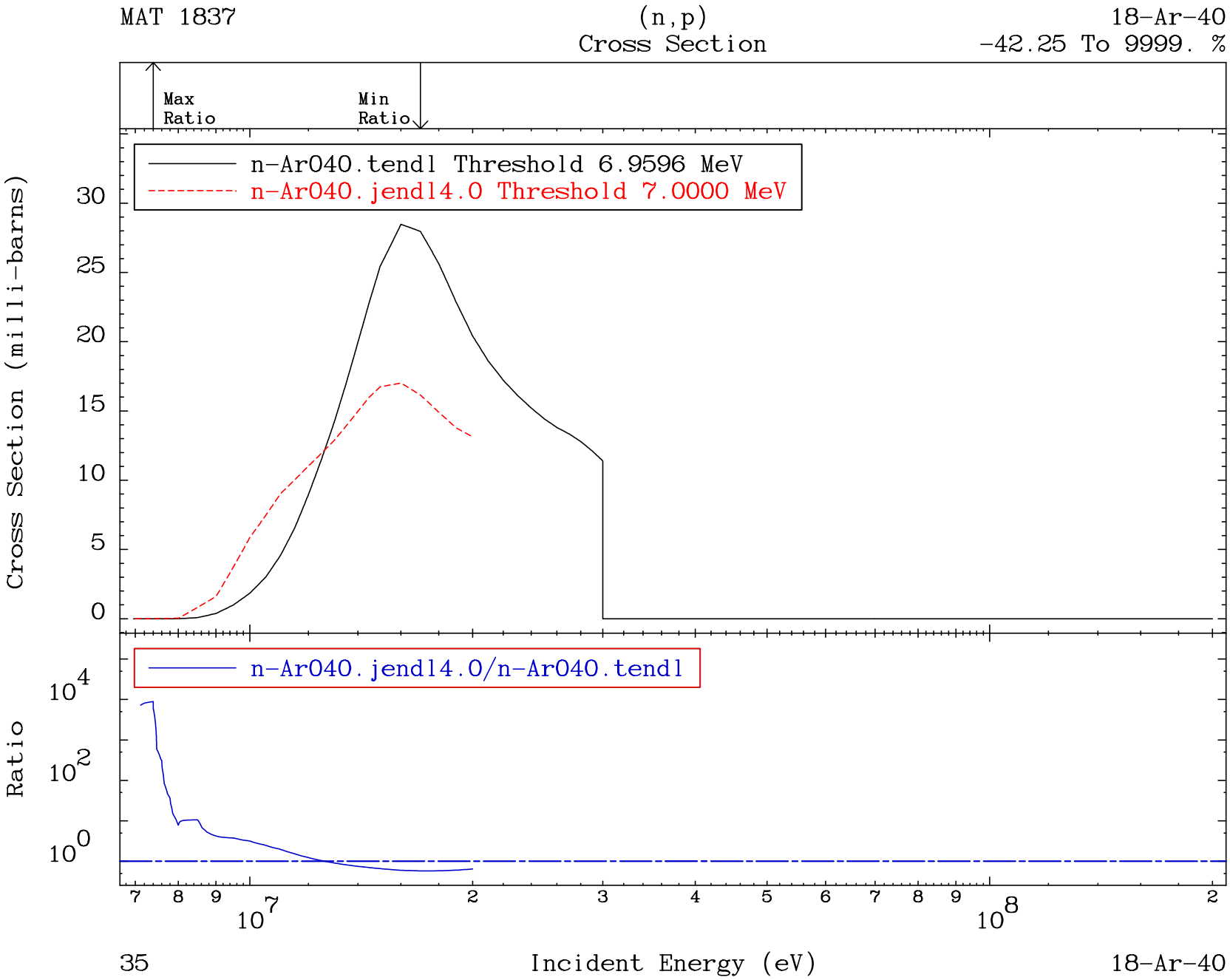

MAT 1837
MT= 73 (n,n') Level
Cross Section
18-Ar-40
-99.78 To 9.129 %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 4.5941 MeV
n-Ar040.jendl4.0 Threshold 4.6074 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^0
10^-1
10^-2
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
18-Ar-40

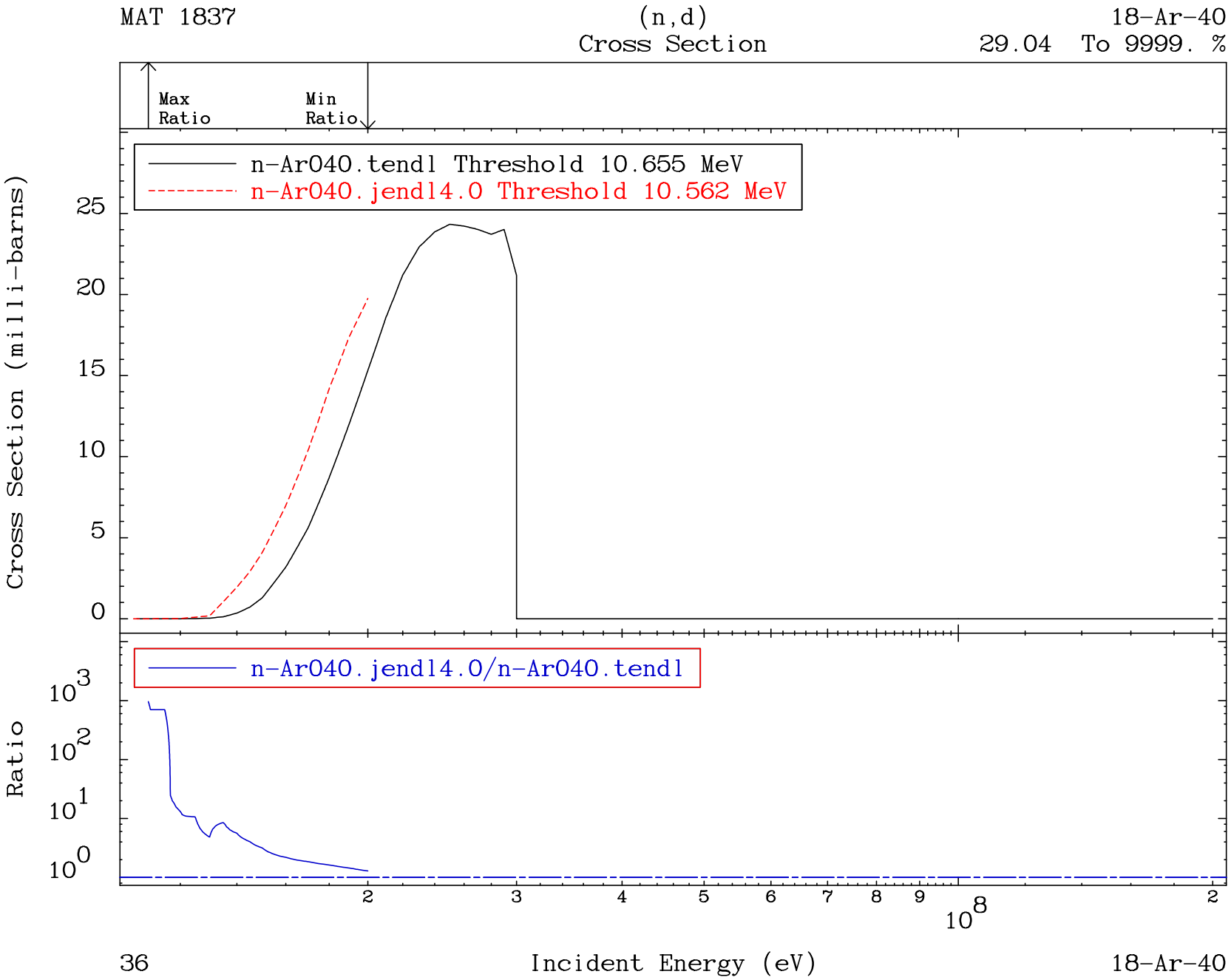

MAT 1837
MT= 74 (n,n') Level
Cross Section
18-Ar-40
-99.79 To 710.5 %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 4.6074 MeV
n-Ar040.jendl4.0 Threshold 4.6771 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^0
10^-2
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
18-Ar-40

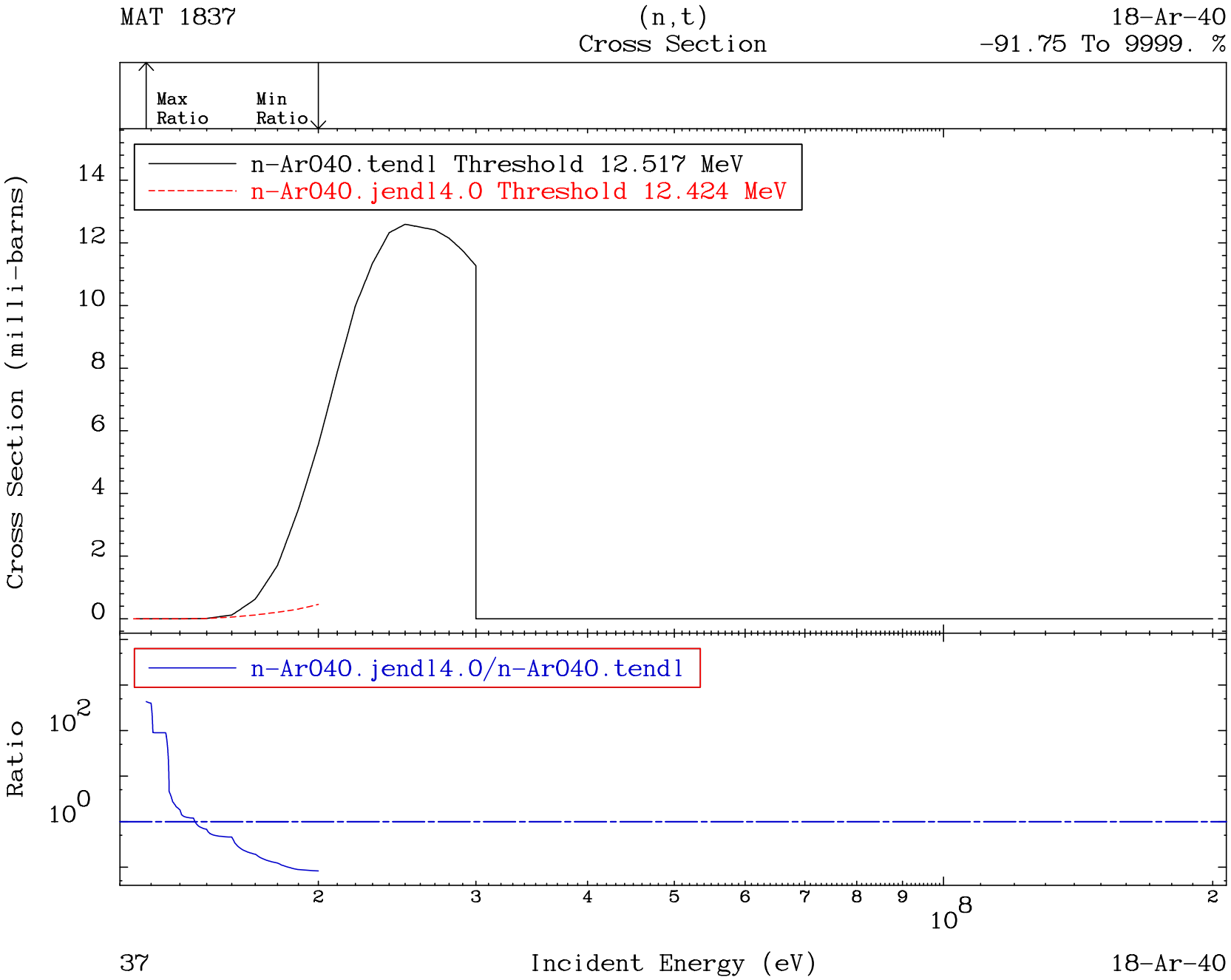

MAT 1837
MT= 75 (n,n') Level
Cross Section
18-Ar-40
-99.78 To 180.3 %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 4.6775 MeV
n-Ar040.jendl4.0 Threshold 4.6935 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^1
10^0
10^-1
10^-2
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
18-Ar-40

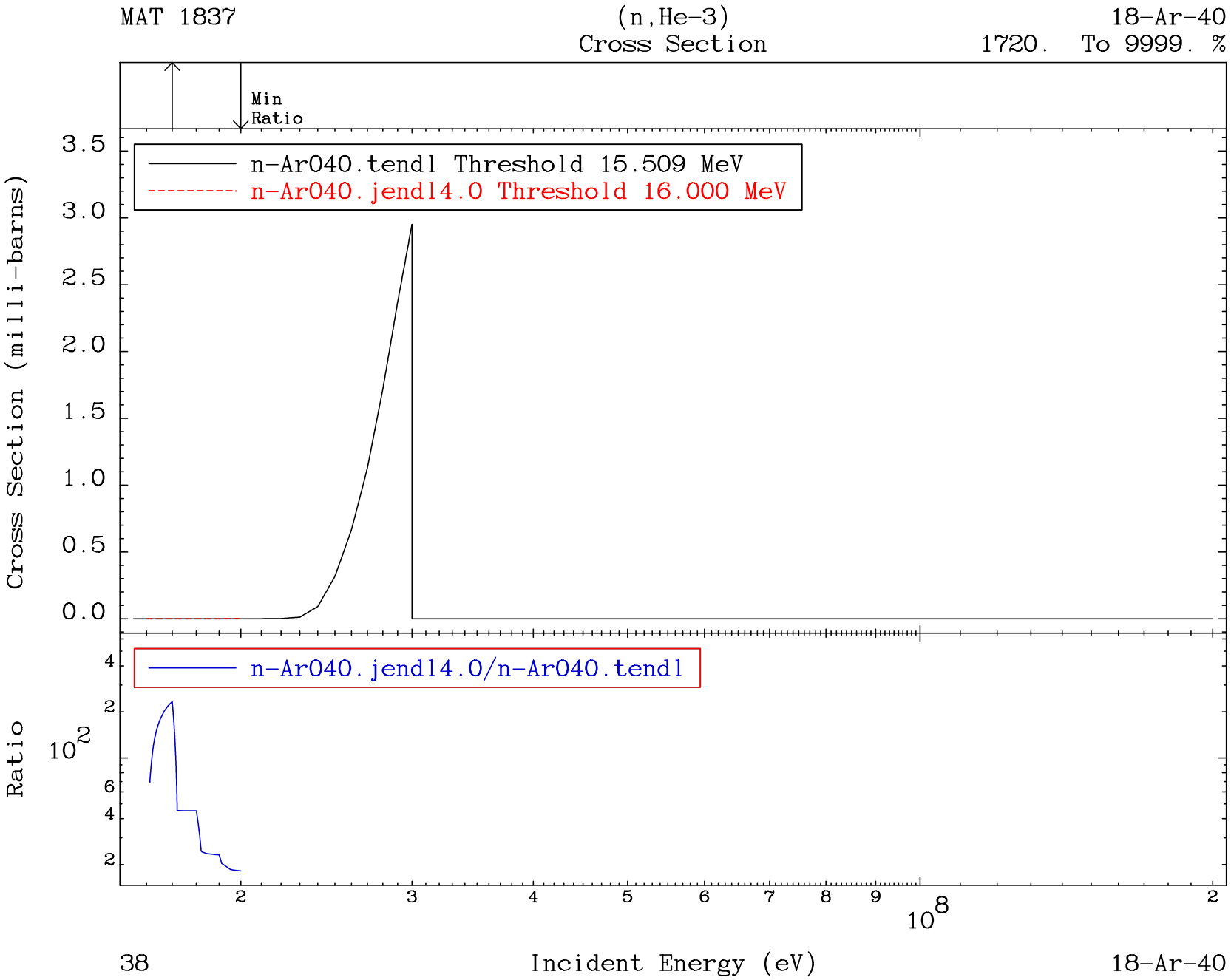

MAT 1837
(n,n') Continuum
Cross Section
18-Ar-40
7.668 To 6881. %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 4.8894 MeV
n-Ar040.jendl4.0 Threshold 4.6956 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^2
10^1
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
18-Ar-40

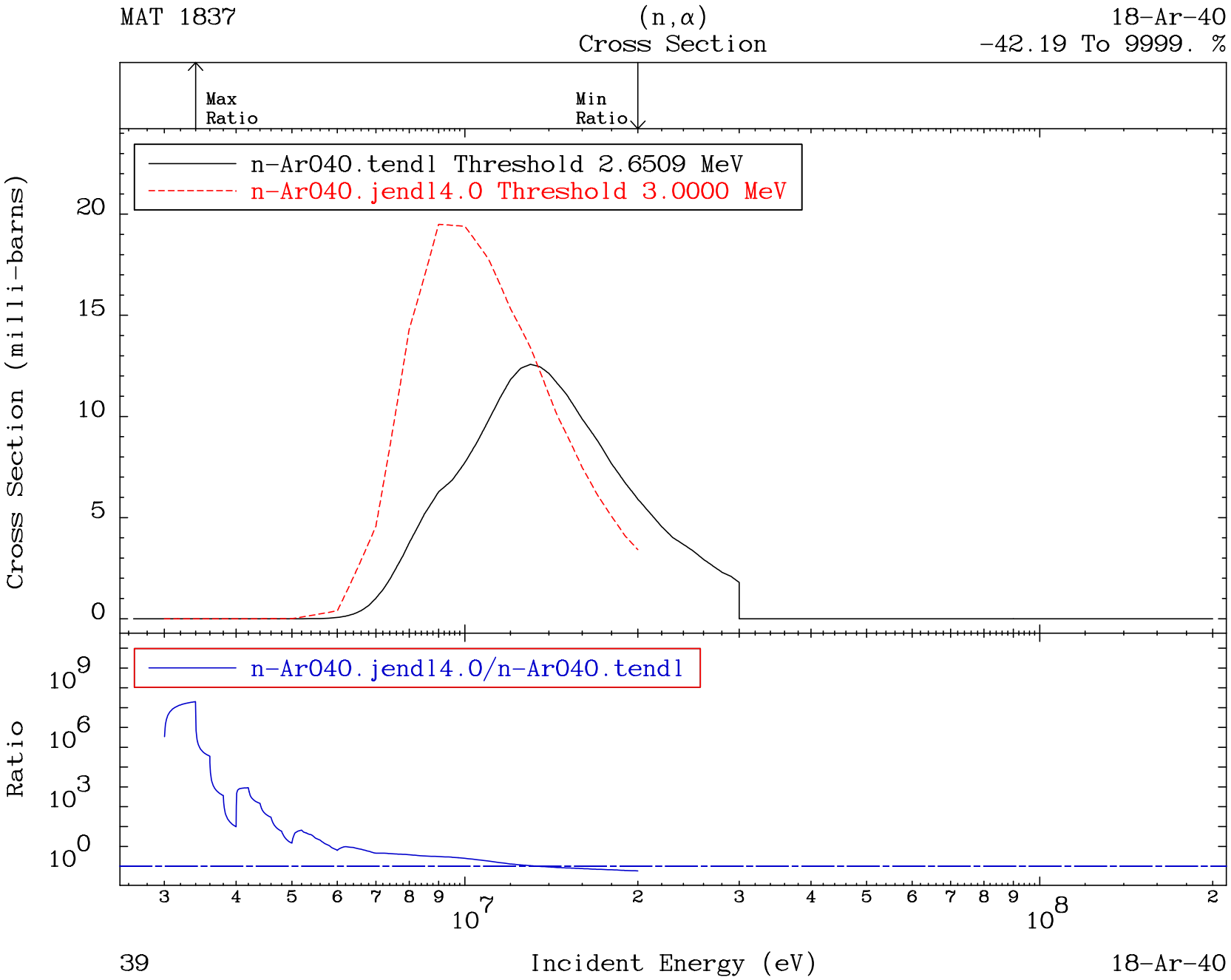

MAT 1837
(n,γ)
Cross Section
18-Ar-40
-99.11 To 9999. %
Min Ratio
Max Ratio
n-Ar040.tendl
n-Ar040.jendl4.0
Cross Section (barns)
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
Incident Energy (eV)
34
18-Ar-40

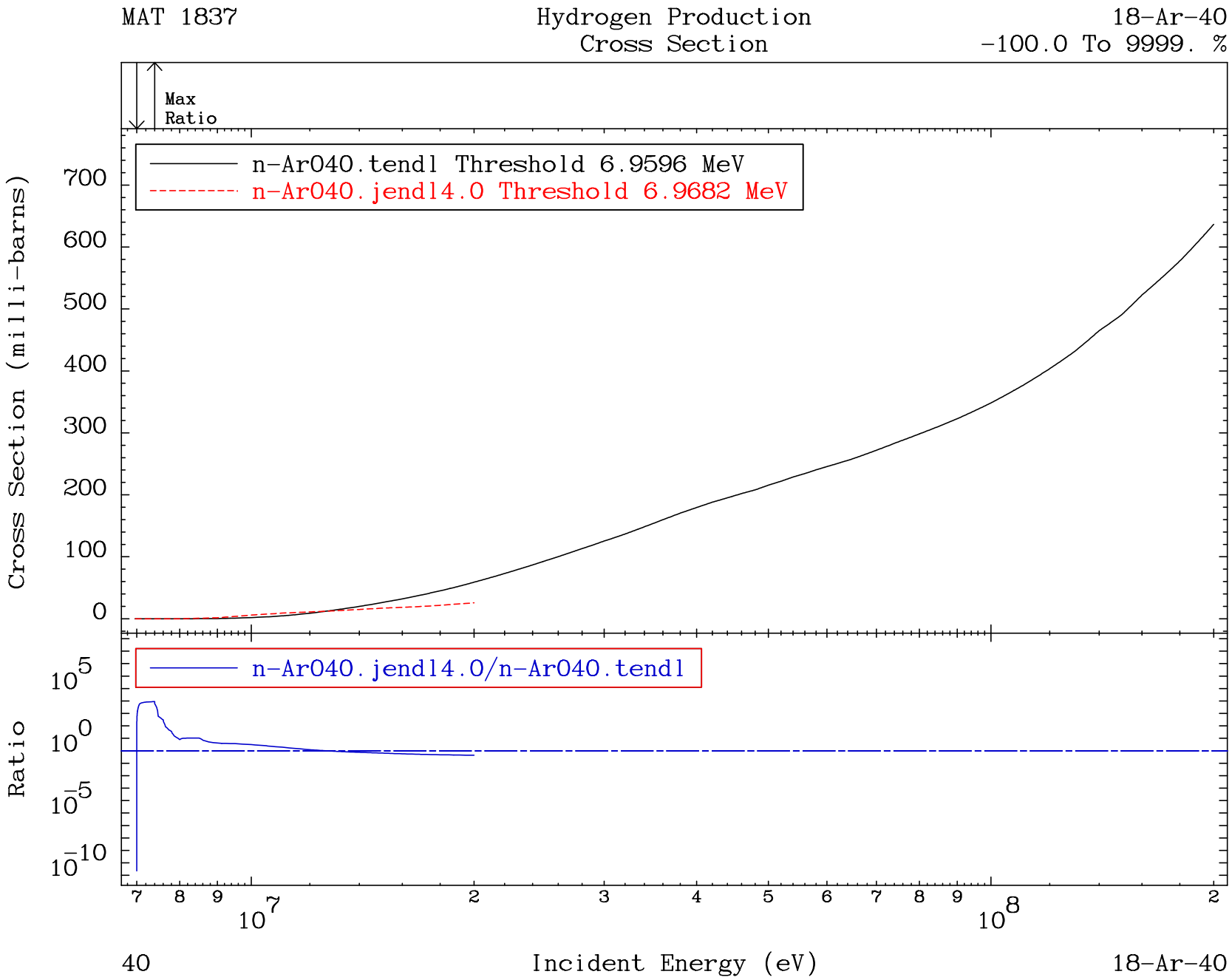

MAT 1837
(n,p)
Cross Section
18-Ar-40
-42.25 To 9999. %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 6.9596 MeV
n-Ar040.jendl4.0 Threshold 7.0000 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^4
10^2
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
18-Ar-40

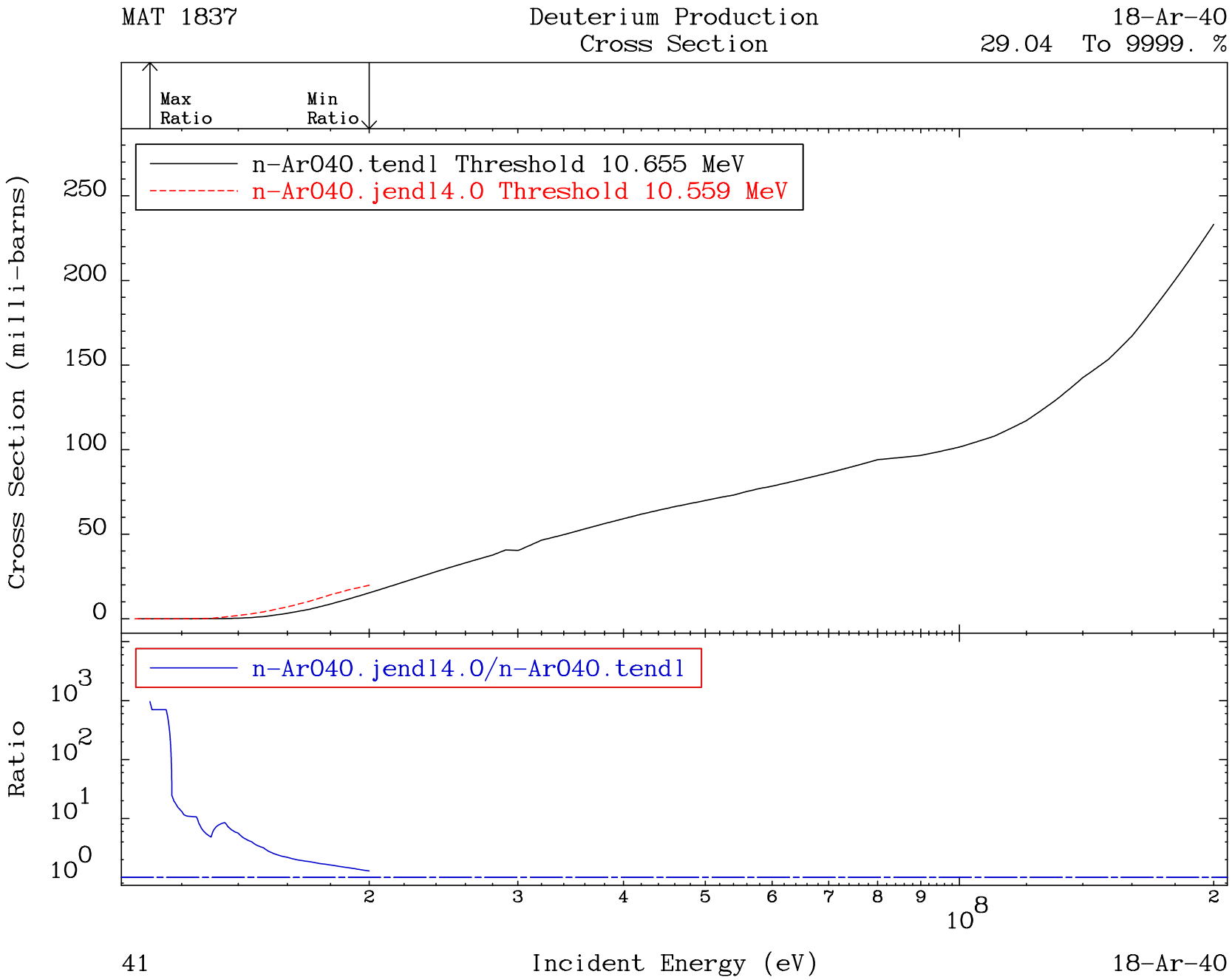

MAT 1837
(n,d)
Cross Section
18-Ar-40
29.04 To 9999. %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 10.655 MeV
n-Ar040.jendl4.0 Threshold 10.562 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
36
Incident Energy (eV)
18-Ar-40

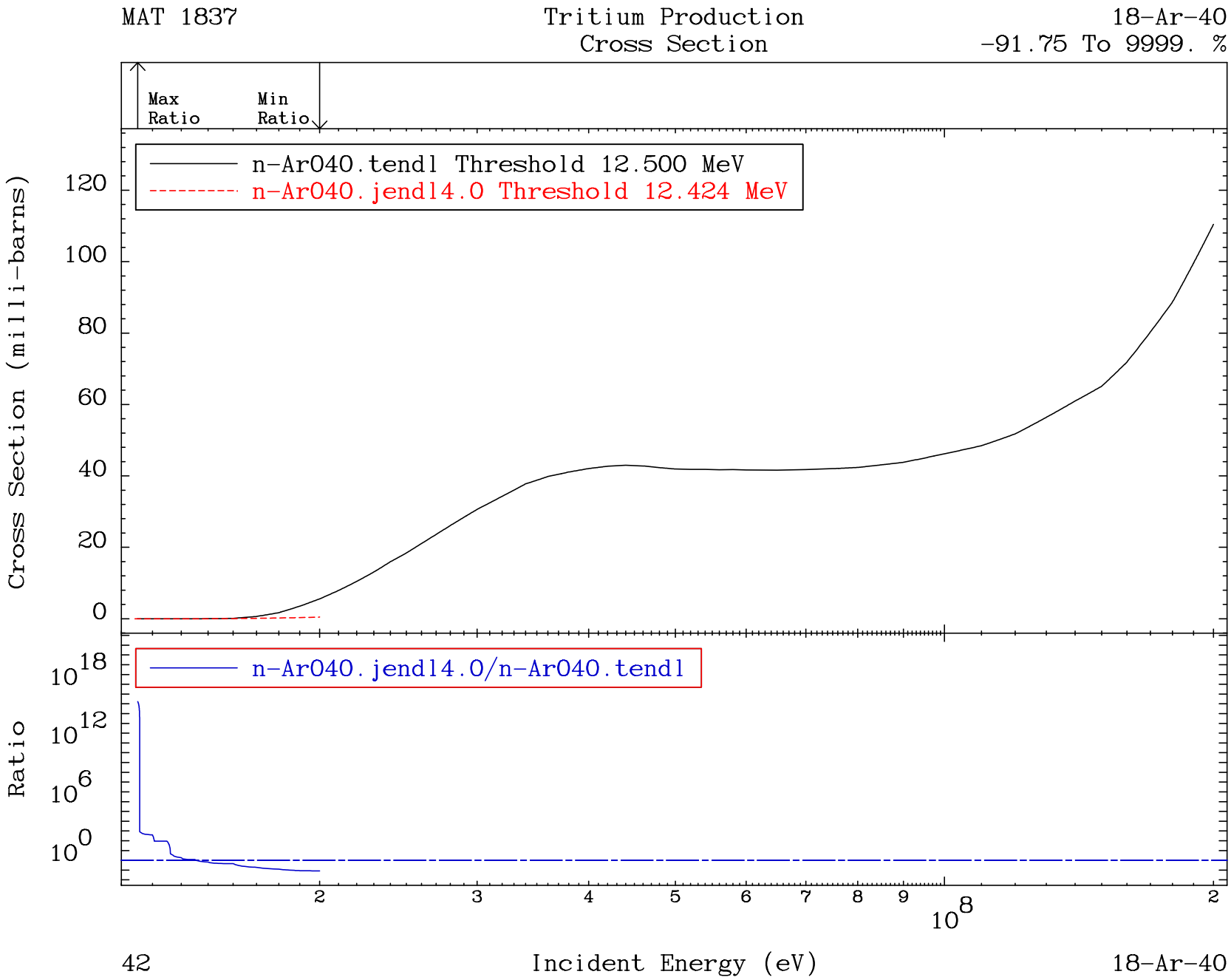

MAT 1837
(n,t)
Cross Section
18-Ar-40
-91.75 To 9999. %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 12.517 MeV
n-Ar040.jendl4.0 Threshold 12.424 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
37
Incident Energy (eV)
18-Ar-40

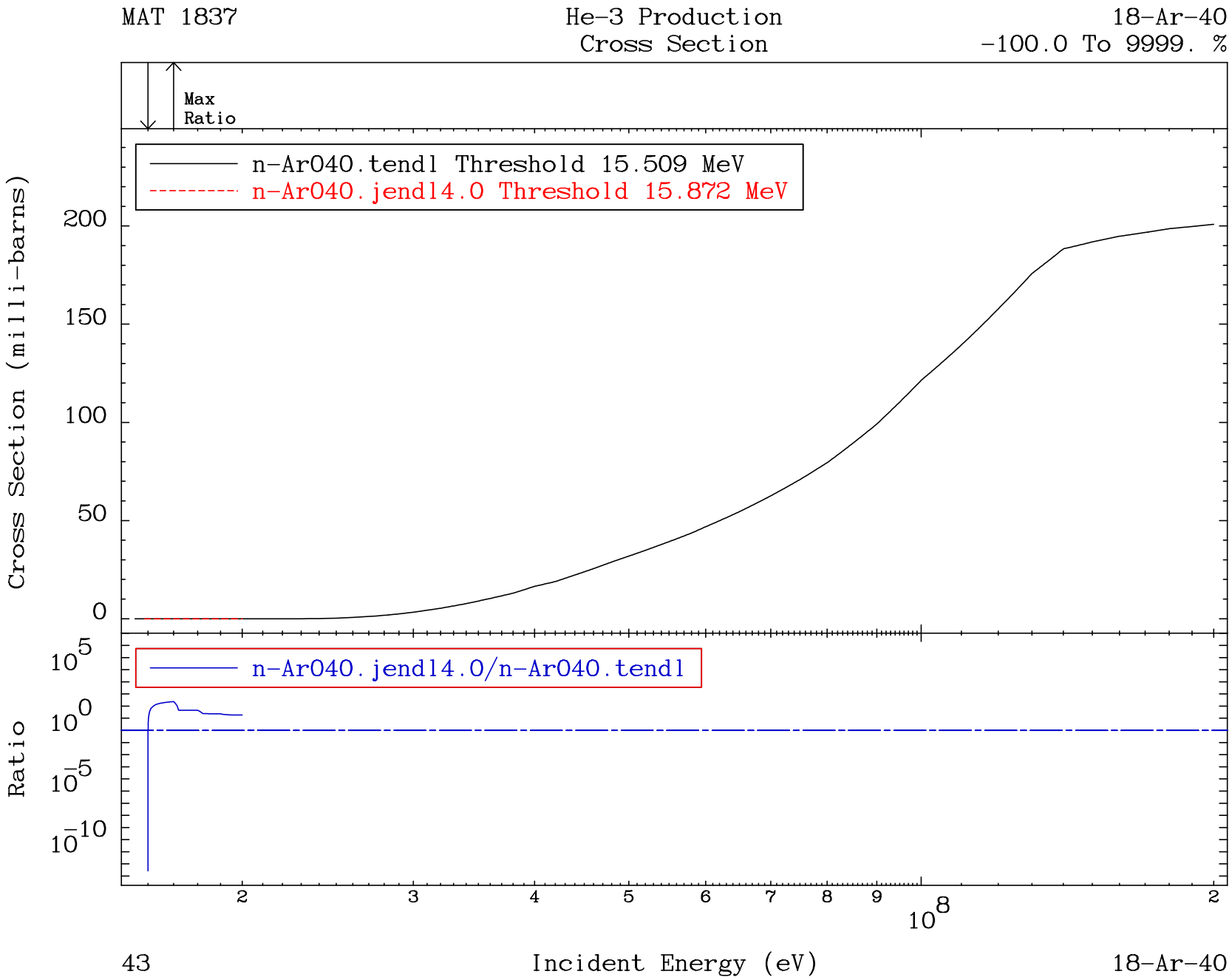

MAT 1837
(n,He-3)
Cross Section
18-Ar-40
1720. To 9999. %
Min
Ratio
n-Ar040.tendl Threshold 15.509 MeV
n-Ar040.jendl4.0 Threshold 16.000 MeV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^2
4
2
6
4
2
2
3
4
5
6
7
8
9
10^8
2
38
Incident Energy (eV)
18-Ar-40

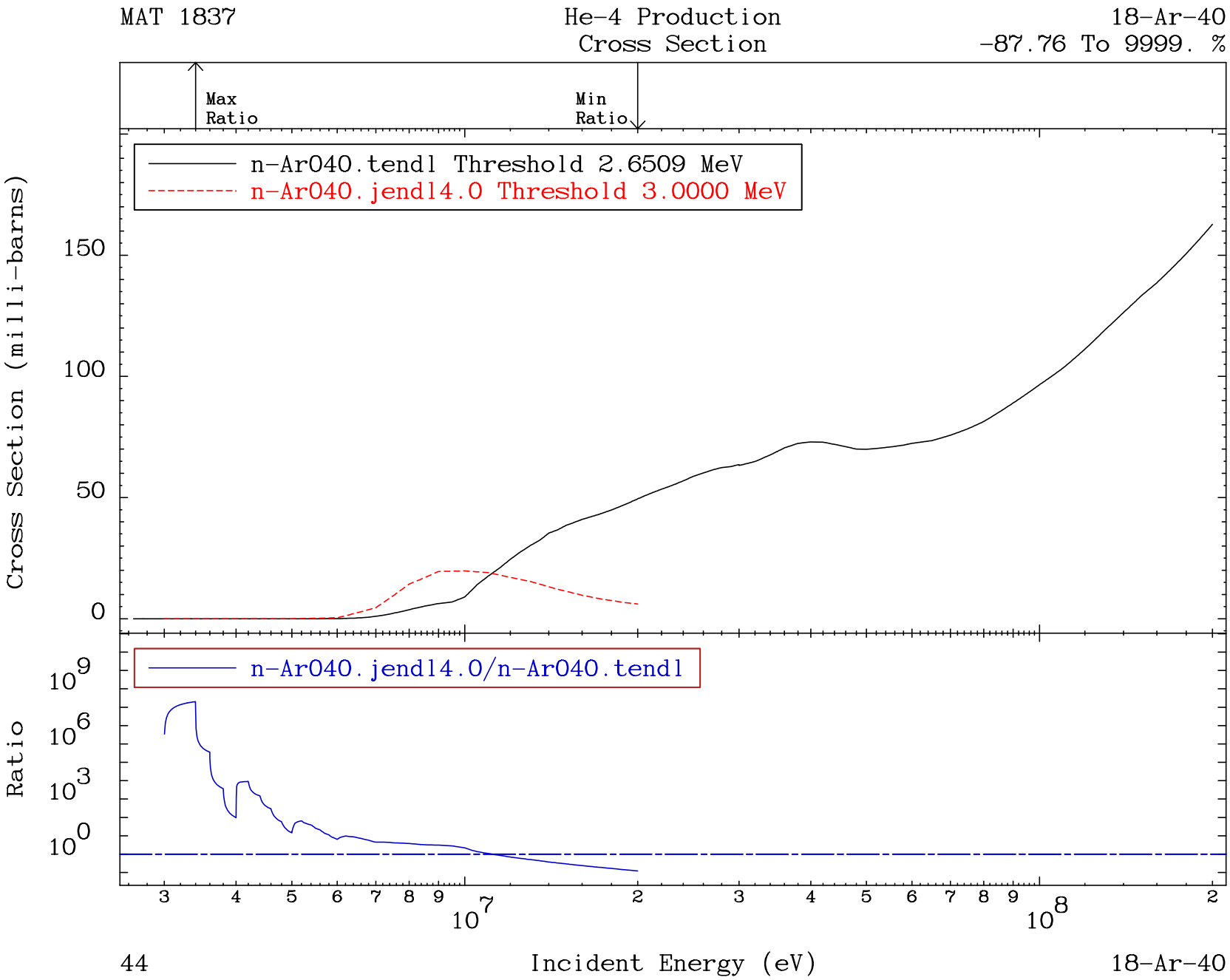

MAT 1837
(n,α)
Cross Section
18-Ar-40
-42.19 To 9999. %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 2.6509 MeV
n-Ar040.jendl4.0 Threshold 3.0000 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^9
10^6
10^3
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
18-Ar-40

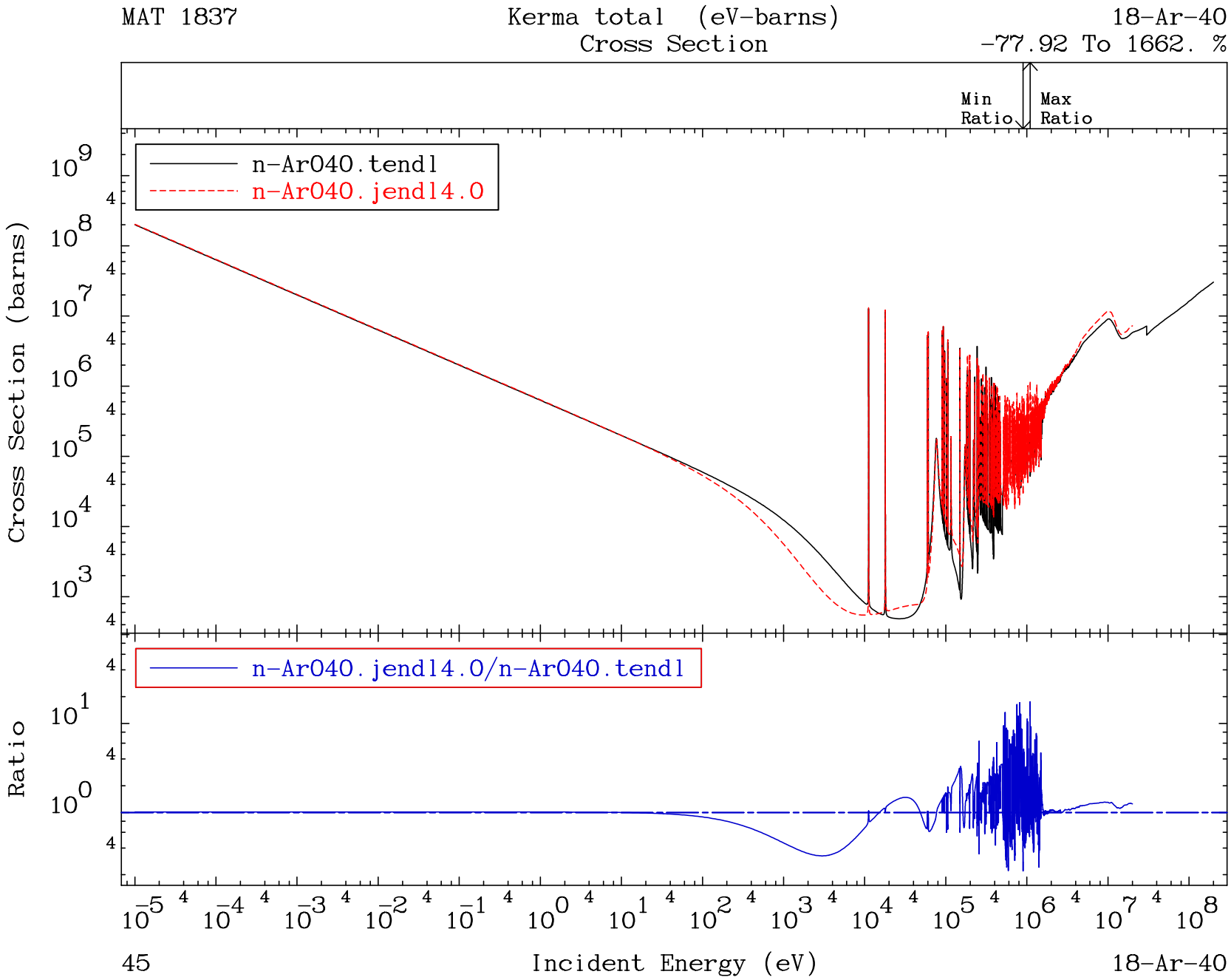

MAT 1837
Hydrogen Production
Cross Section
18-Ar-40
-100.0 To 9999. %
Max
Ratio
n-Ar040.tendl Threshold 6.9596 MeV
n-Ar040.jendl4.0 Threshold 6.9682 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^5
10^0
10^-5
10^-10
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
40
Incident Energy (eV)
18-Ar-40

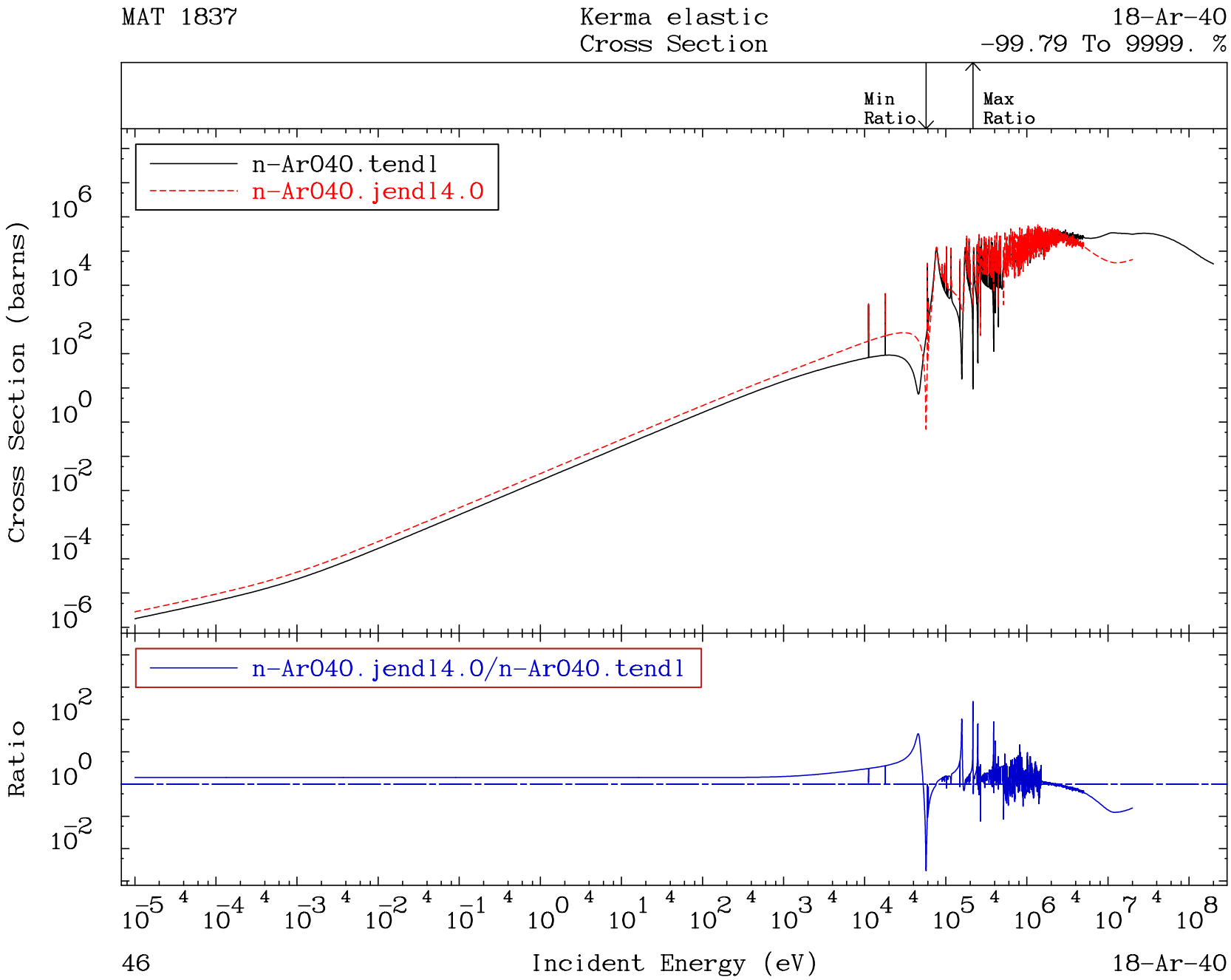

MAT 1837
Deuterium Production
Cross Section
18-Ar-40
29.04 To 9999. %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 10.655 MeV
n-Ar040.jendl4.0 Threshold 10.559 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
41
Incident Energy (eV)
18-Ar-40

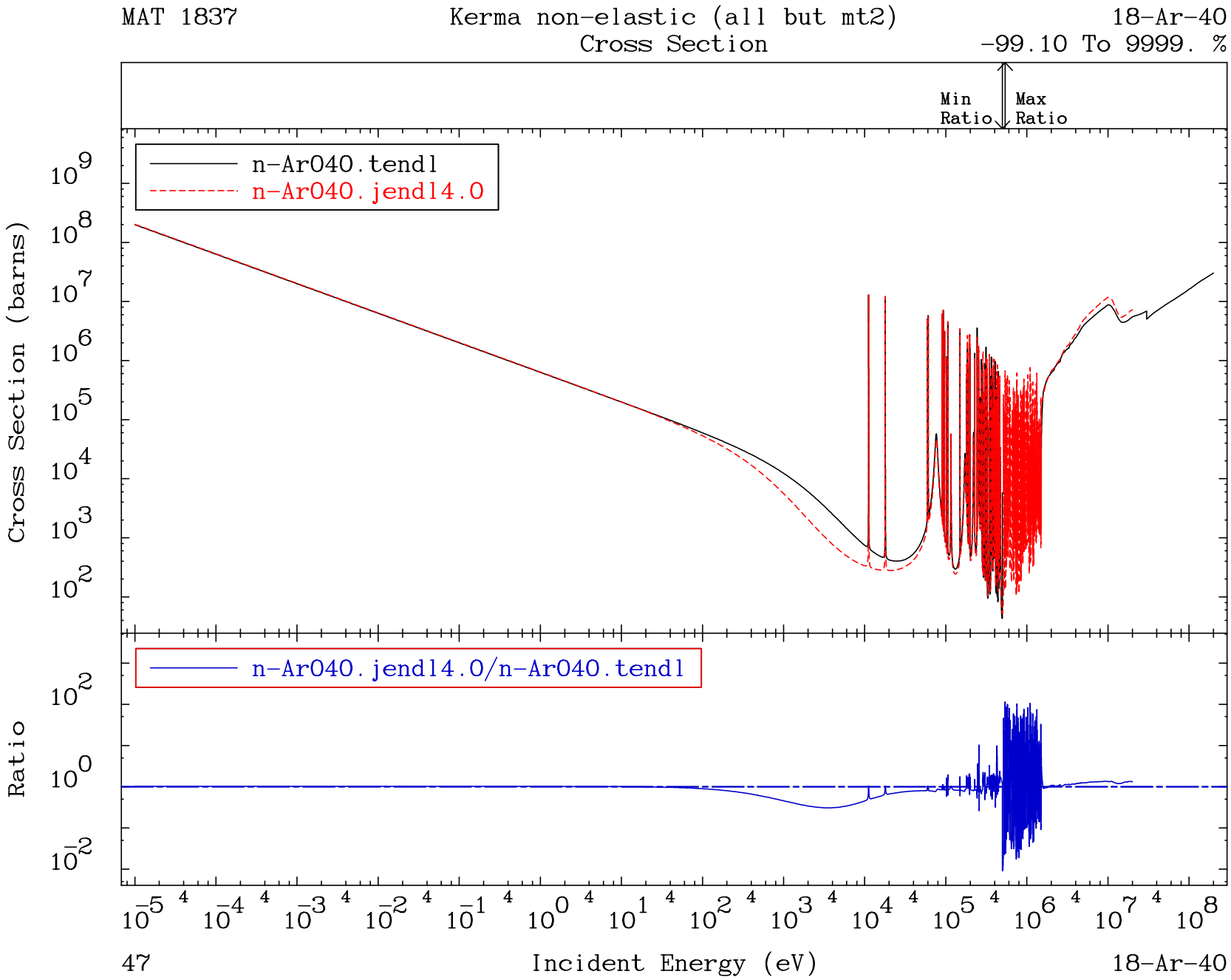

MAT 1837
Tritium Production
Cross Section
18-Ar-40
-91.75 To 9999. %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 12.500 MeV
n-Ar040.jendl4.0 Threshold 12.424 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^18
10^12
10^6
10^0
2
3
4
5
6
7
8
9
10^8
2
42
Incident Energy (eV)
18-Ar-40

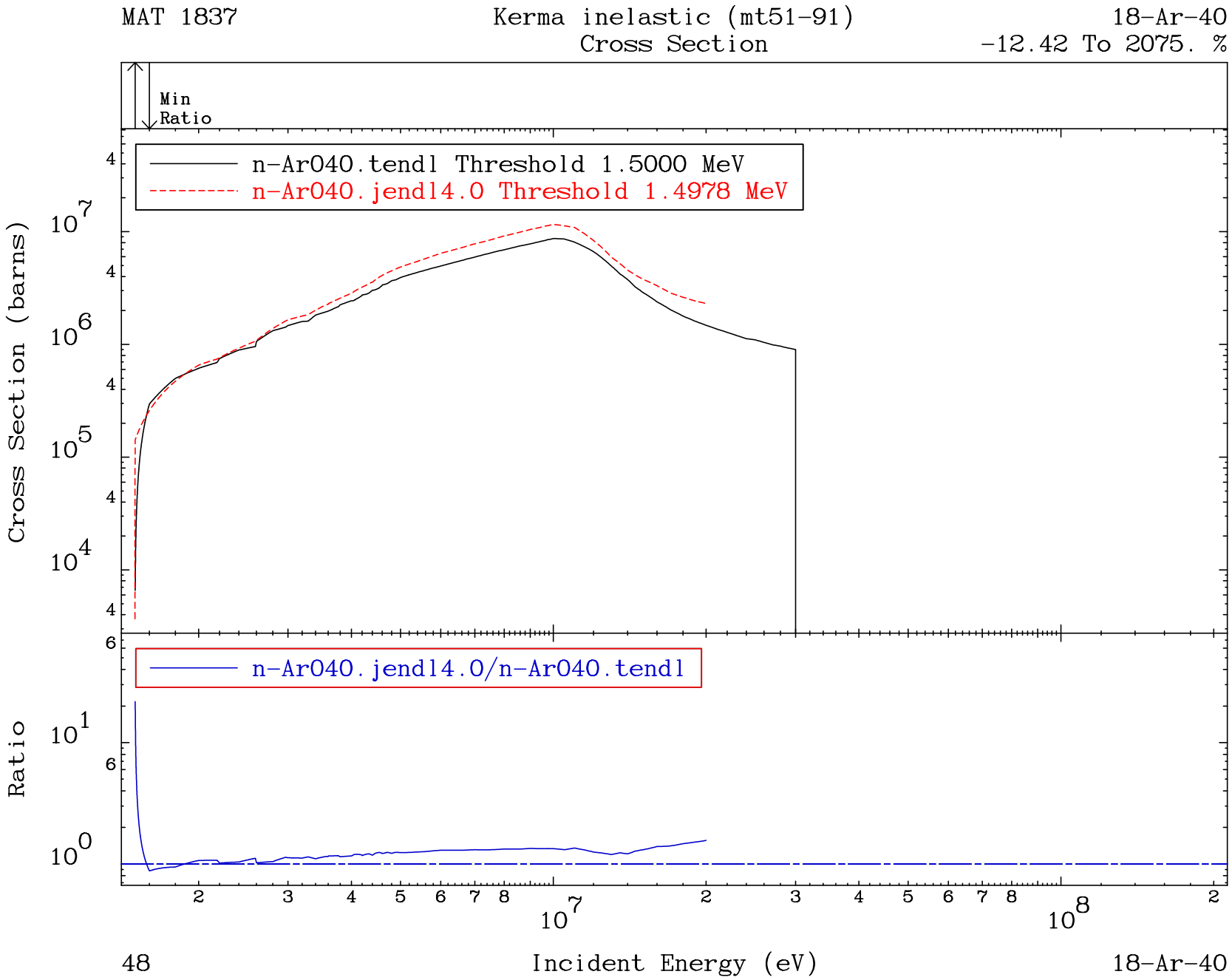

MAT 1837
He-3 Production
Cross Section
18-Ar-40
-100.0 To 9999. %
Max
Ratio
n-Ar040.tendl Threshold 15.509 MeV
n-Ar040.jendl4.0 Threshold 15.872 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^5
10^0
10^-5
10^-10
2
3
4
5
6
7
8
9
10^8
2
43
Incident Energy (eV)
18-Ar-40

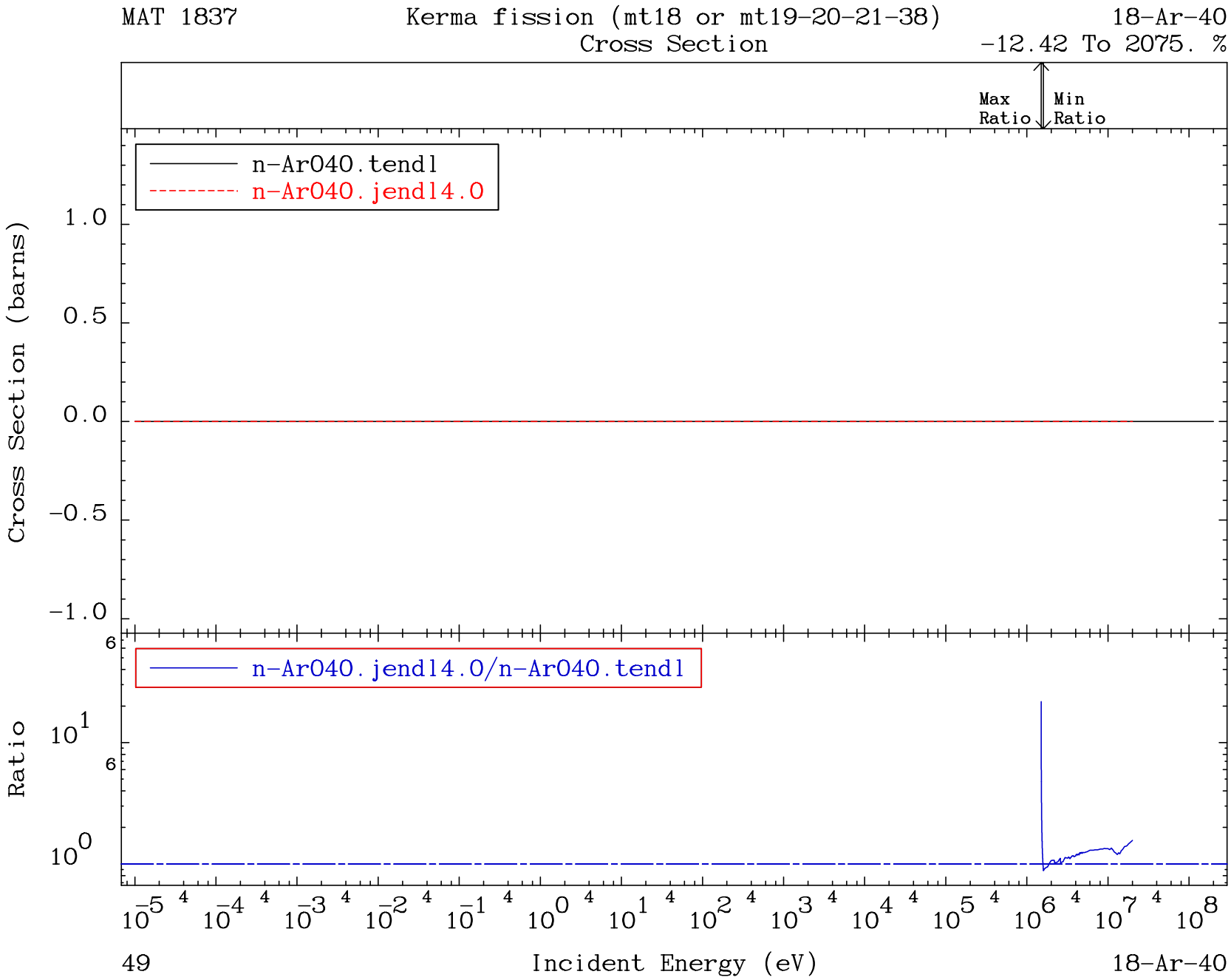

MAT 1837
He-4 Production
Cross Section
18-Ar-40
-87.76 To 9999. %
Max Ratio
Min Ratio
n-Ar040.tendl Threshold 2.6509 MeV
n-Ar040.jendl4.0 Threshold 3.0000 MeV
Cross Section (milli-barns)
150
100
50
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^9
10^6
10^3
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
18-Ar-40

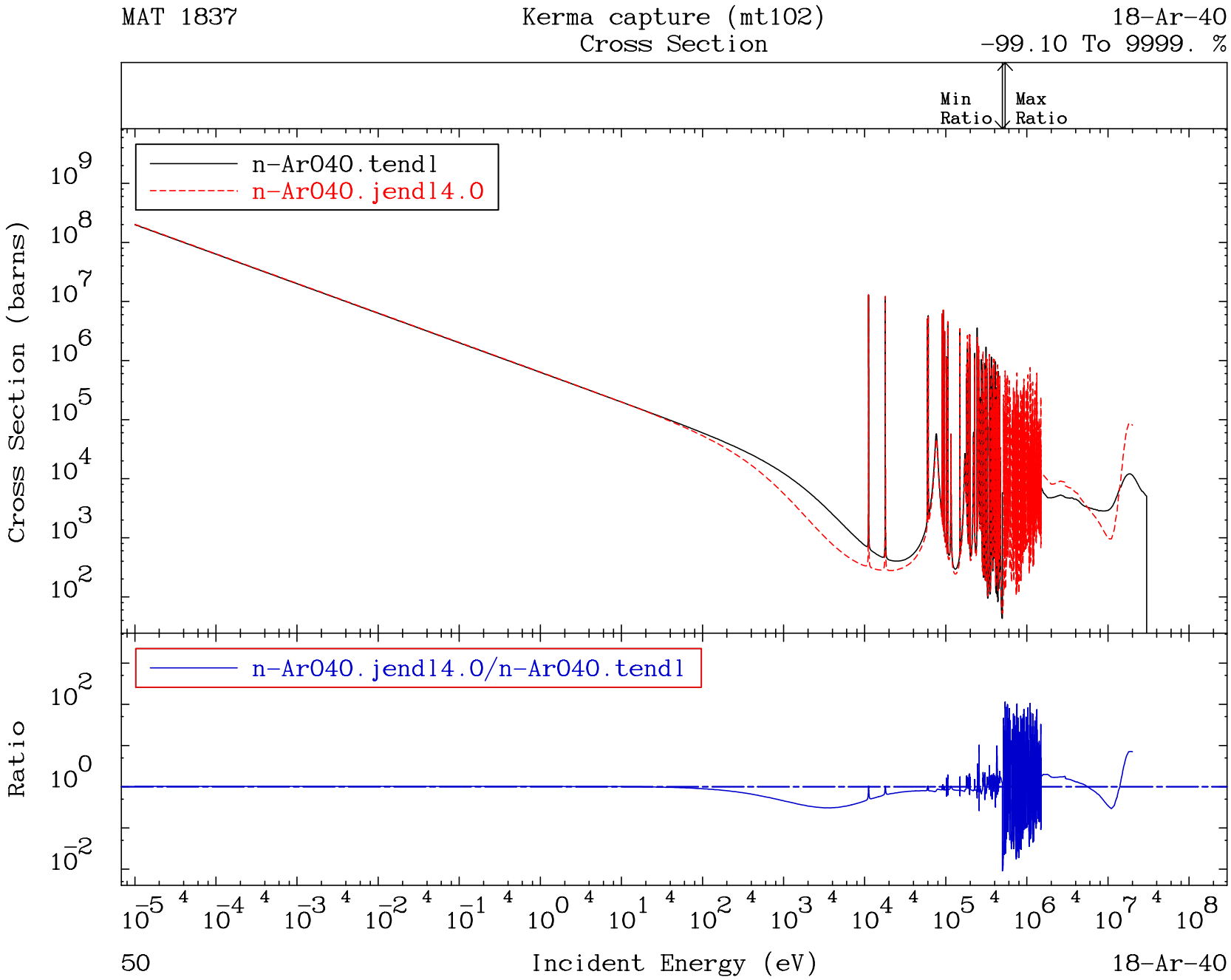

MAT 1837
Kerma total (eV-barns)
Cross Section
18-Ar-40
-77.92 To 1662. %
Min Ratio
Max Ratio
n-Ar040.tendl
n-Ar040.jendl4.0
Cross Section (barns)
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
Incident Energy (eV)
45
18-Ar-40

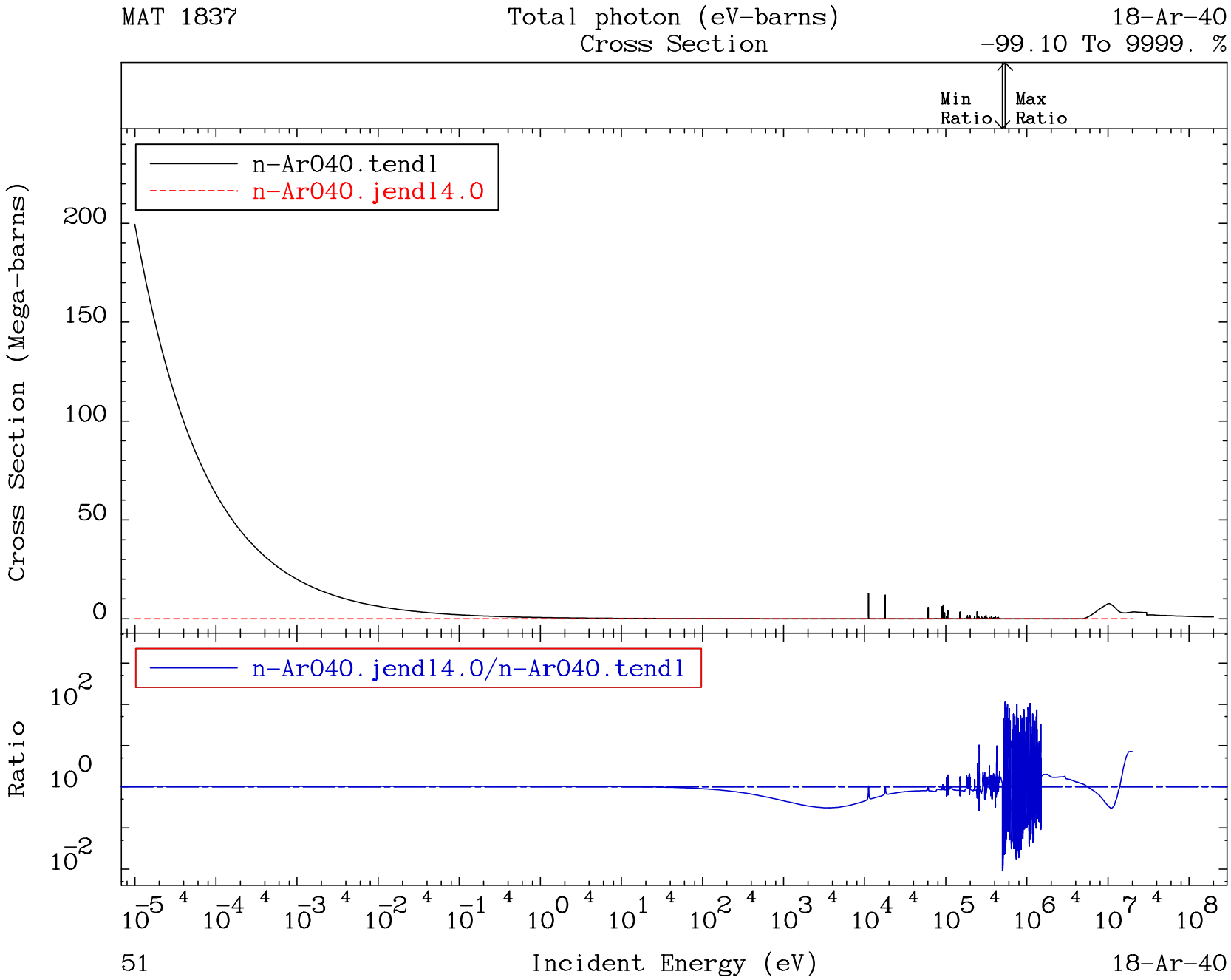

MAT 1837
Kerma elastic
Cross Section
18-Ar-40
-99.79 To 9999. %
Min Ratio
Max Ratio
n-Ar040.tendl
n-Ar040.jendl4.0
Cross Section (barns)
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
Incident Energy (eV)
46
18-Ar-40

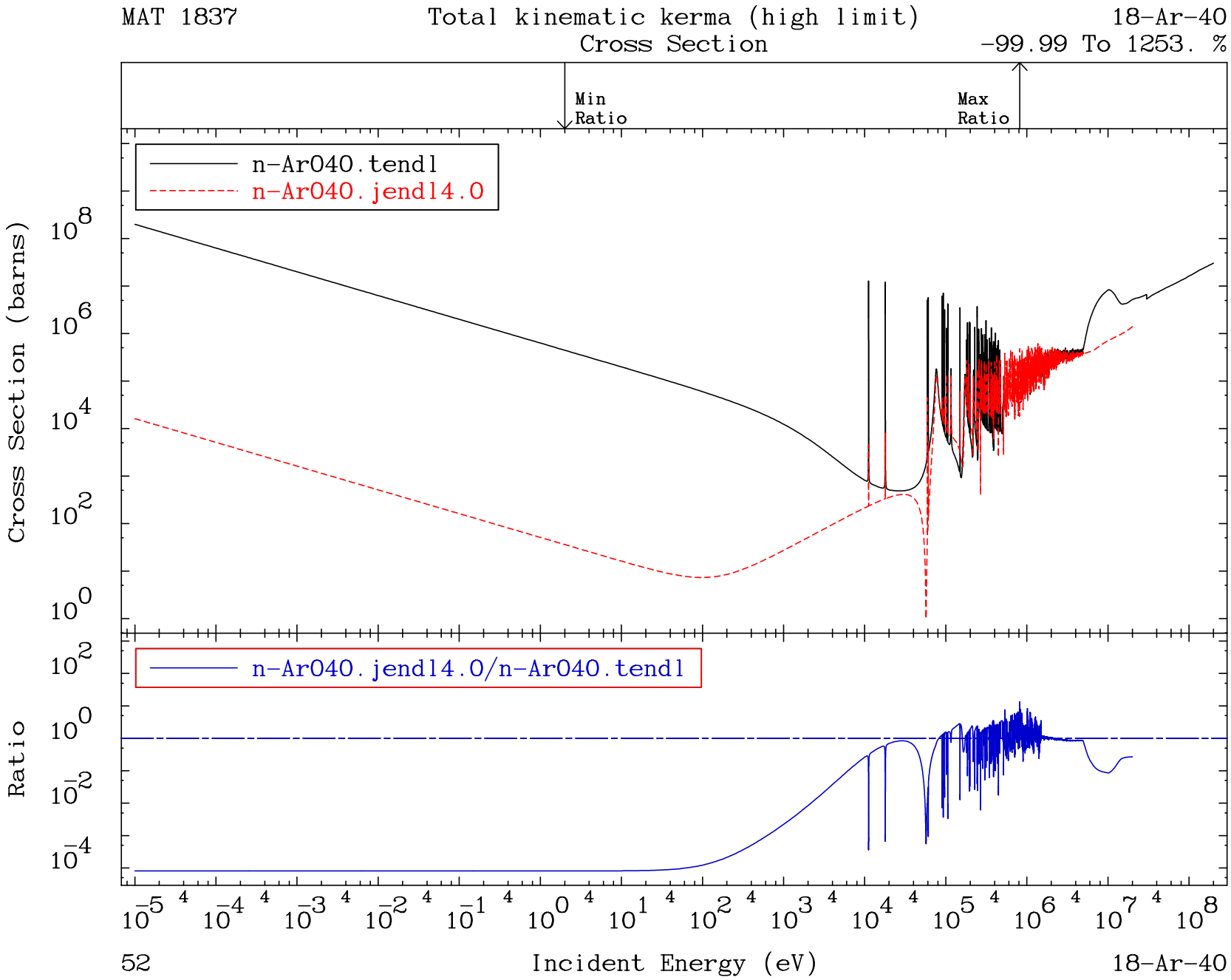

MAT 1837
Kerma non-elastic (all but mt2)
Cross Section
18-Ar-40
-99.10 To 9999. %
Min Ratio
Max Ratio
n-Ar040.tendl
n-Ar040.jendl4.0
Cross Section (barns)
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
Incident Energy (eV)
47
18-Ar-40

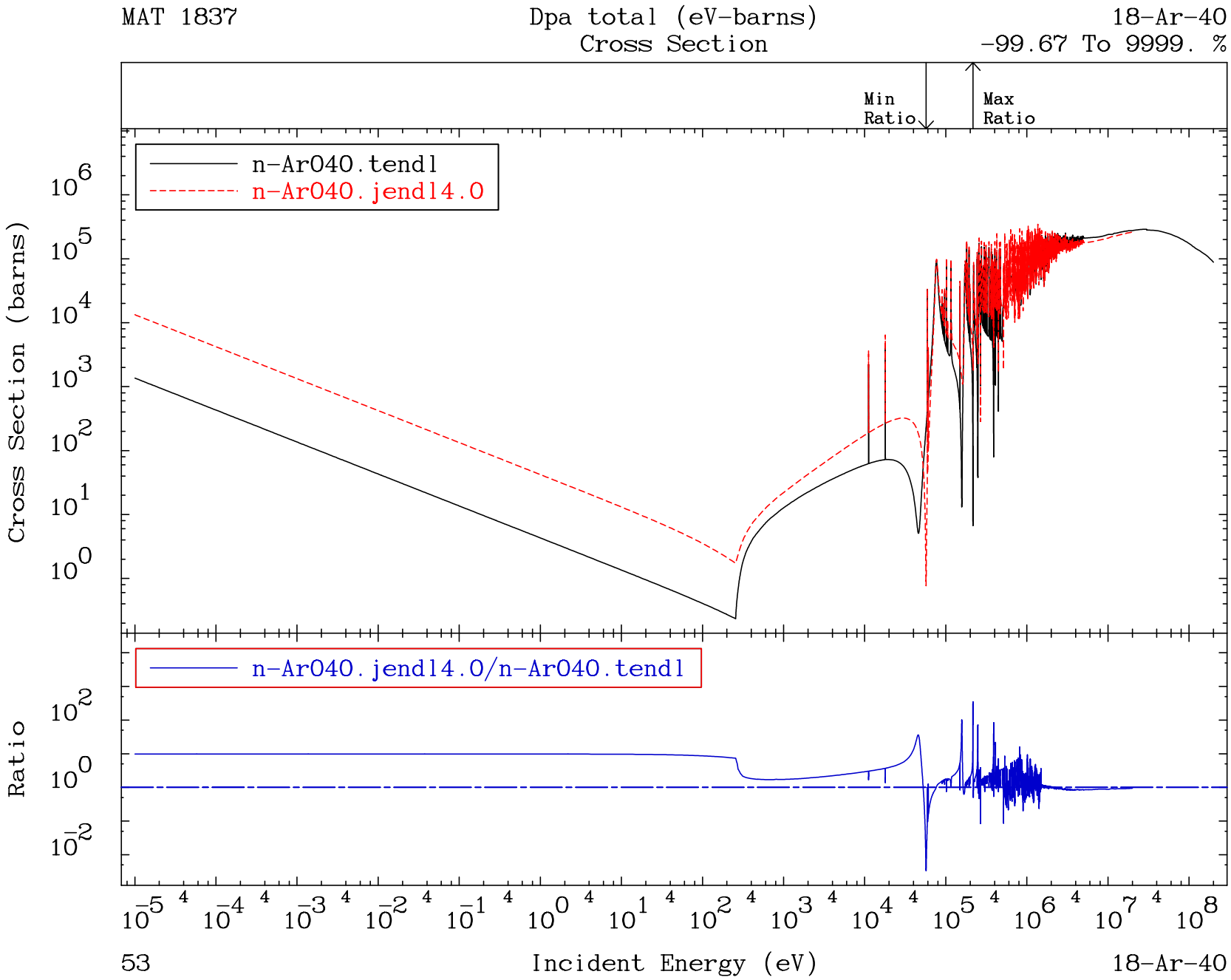

MAT 1837
Kerma inelastic (mt51-91)
Cross Section
18-Ar-40
-12.42 To 2075. %
Min
Ratio
n-Ar040.tendl Threshold 1.5000 MeV
n-Ar040.jendl4.0 Threshold 1.4978 MeV
Cross Section (barns)
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
Incident Energy (eV)
48
18-Ar-40

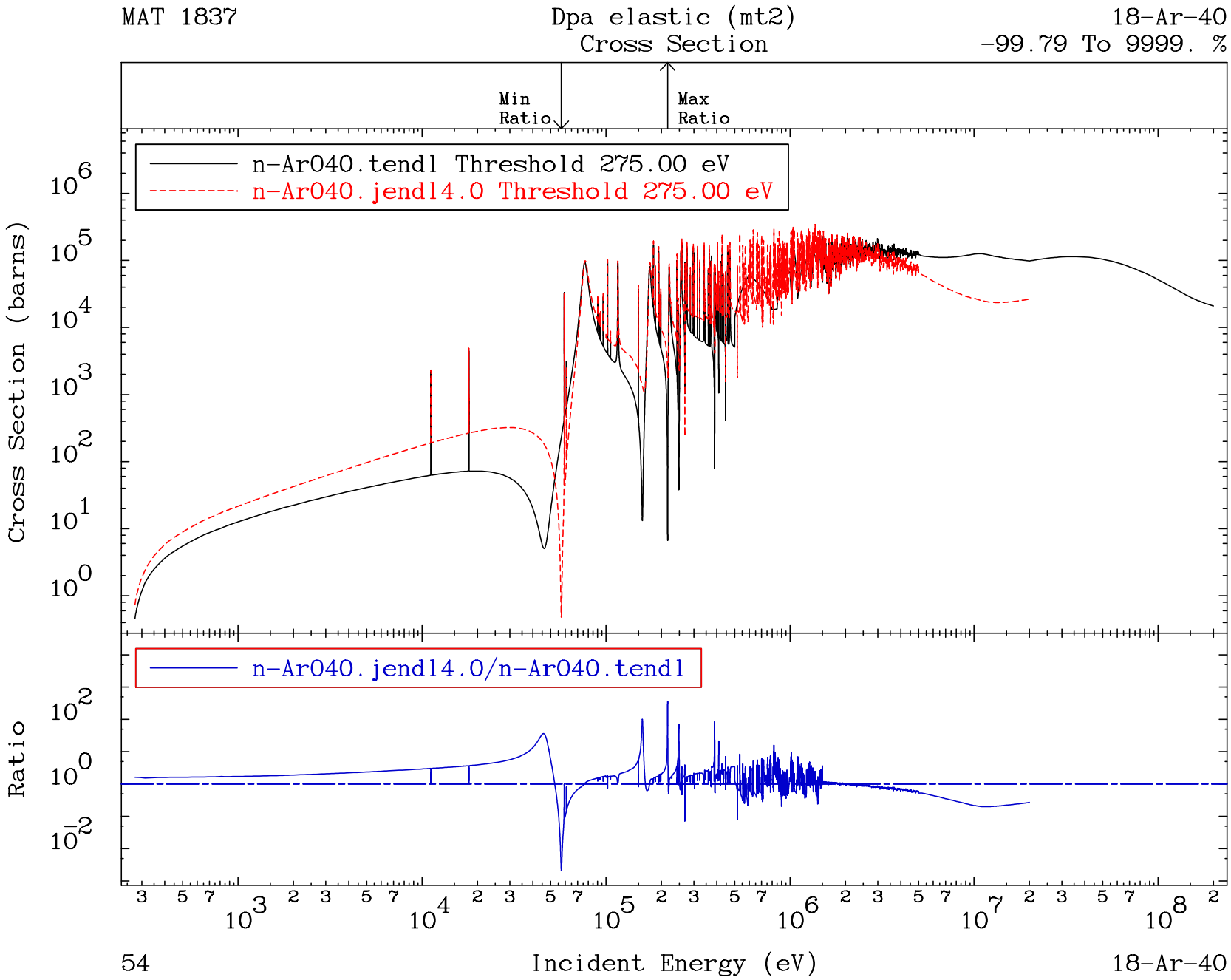

MAT 1837
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
18-Ar-40
-12.42 To 2075. %
Max Ratio
Min Ratio
n-Ar040.tendl
n-Ar040.jendl4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
6
10^1
6
10^0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
49
Incident Energy (eV)
18-Ar-40

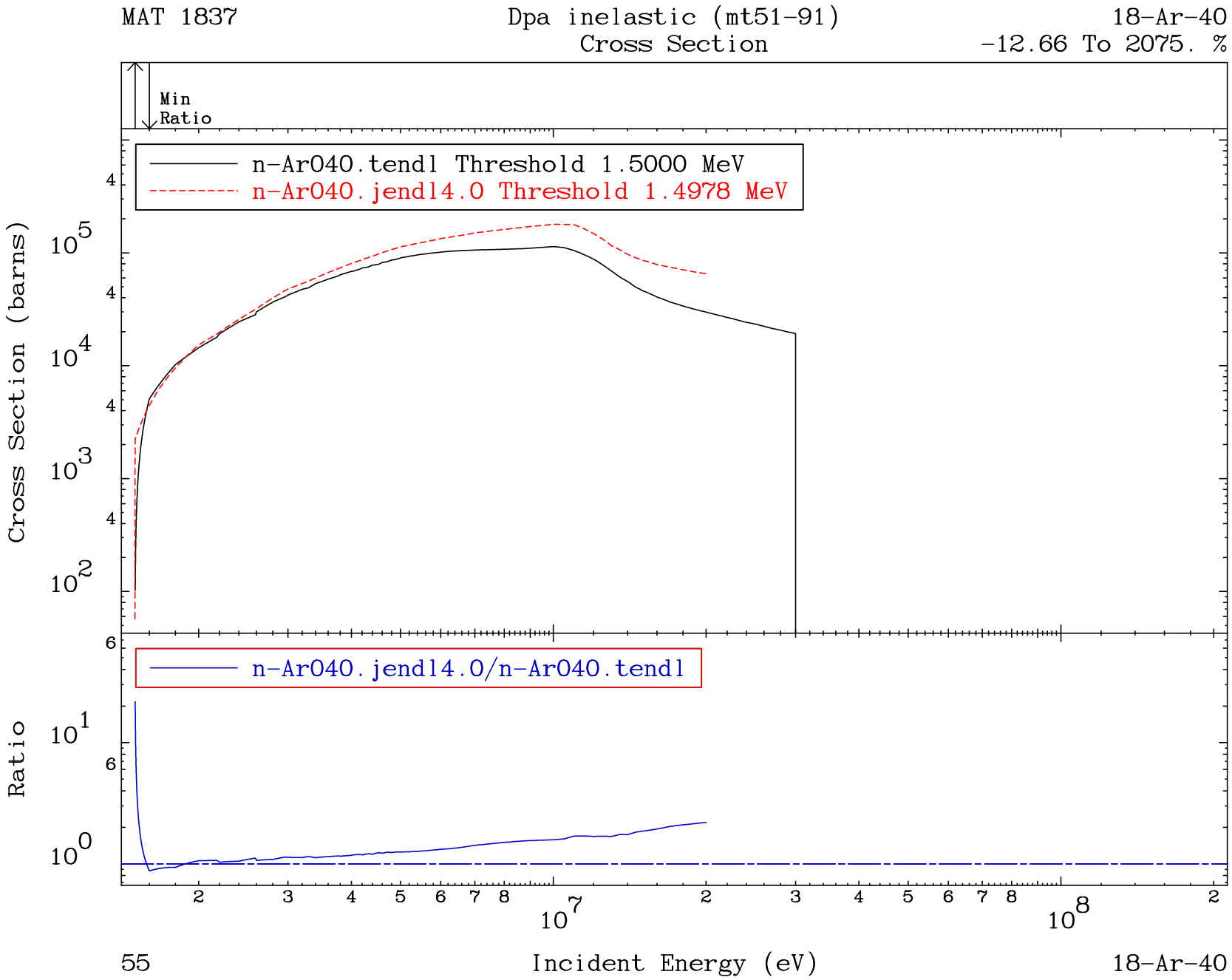

MAT 1837
Kerma capture (mt102)
Cross Section
18-Ar-40
-99.10 To 9999. %
Min Ratio
Max Ratio
n-Ar040.tendl
n-Ar040.jendl4.0
Cross Section (barns)
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
Incident Energy (eV)
50
18-Ar-40

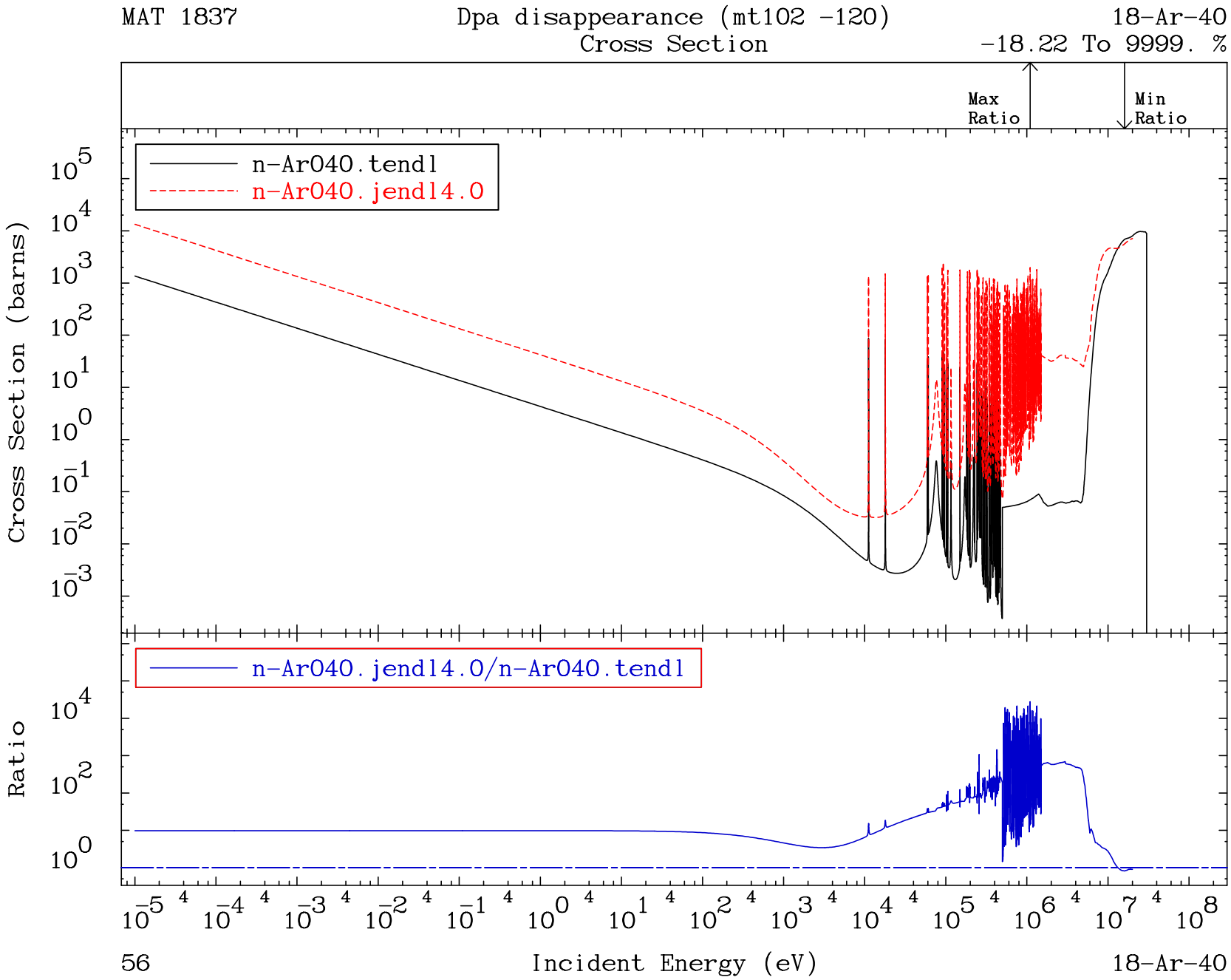

MAT 1837
Total photon (eV-barns)
Cross Section
18-Ar-40
-99.10 To 9999. %
Min Ratio
Max Ratio
n-Ar040.tendl
n-Ar040.jendl4.0
Cross Section (Mega-barns)
200
150
100
50
0
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
10^2
10^0
10^-2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
51
Incident Energy (eV)
18-Ar-40


MAT 1837
Total kinematic kerma (high limit)
Cross Section
18-Ar-40
-99.99 To 1253. %
Min Ratio
Max Ratio
n-Ar040.tendl
n-Ar040.jendl4.0
Cross Section (barns)
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
Incident Energy (eV)
52
18-Ar-40


MAT 1837
Dpa total (eV-barns)
Cross Section
18-Ar-40
-99.67 To 9999. %
Min Ratio
Max Ratio
n-Ar040.tendl
n-Ar040.jendl4.0
Cross Section (barns)
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
Incident Energy (eV)
53
18-Ar-40


MAT 1837
Dpa elastic (mt2)
Cross Section
18-Ar-40
-99.79 To 9999. %
Min Ratio
Max Ratio
n-Ar040.tendl Threshold 275.00 eV
n-Ar040.jendl4.0 Threshold 275.00 eV
Cross Section (barns)
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
Incident Energy (eV)
54
18-Ar-40


MAT 1837
Dpa inelastic (mt51-91)
Cross Section
18-Ar-40
-12.66 To 2075. %
Min
Ratio
n-Ar040.tendl Threshold 1.5000 MeV
n-Ar040.jendl4.0 Threshold 1.4978 MeV
Cross Section (barns)
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
Incident Energy (eV)
55
18-Ar-40


MAT 1837
Dpa disappearance (mt102 -120)
Cross Section
18-Ar-40
-18.22 To 9999. %
Max Ratio
Min Ratio
n-Ar040.tendl
n-Ar040.jendl4.0
Cross Section (barns)
n-Ar040.jendl4.0/n-Ar040.tendl
Ratio
Incident Energy (eV)
56
18-Ar-40