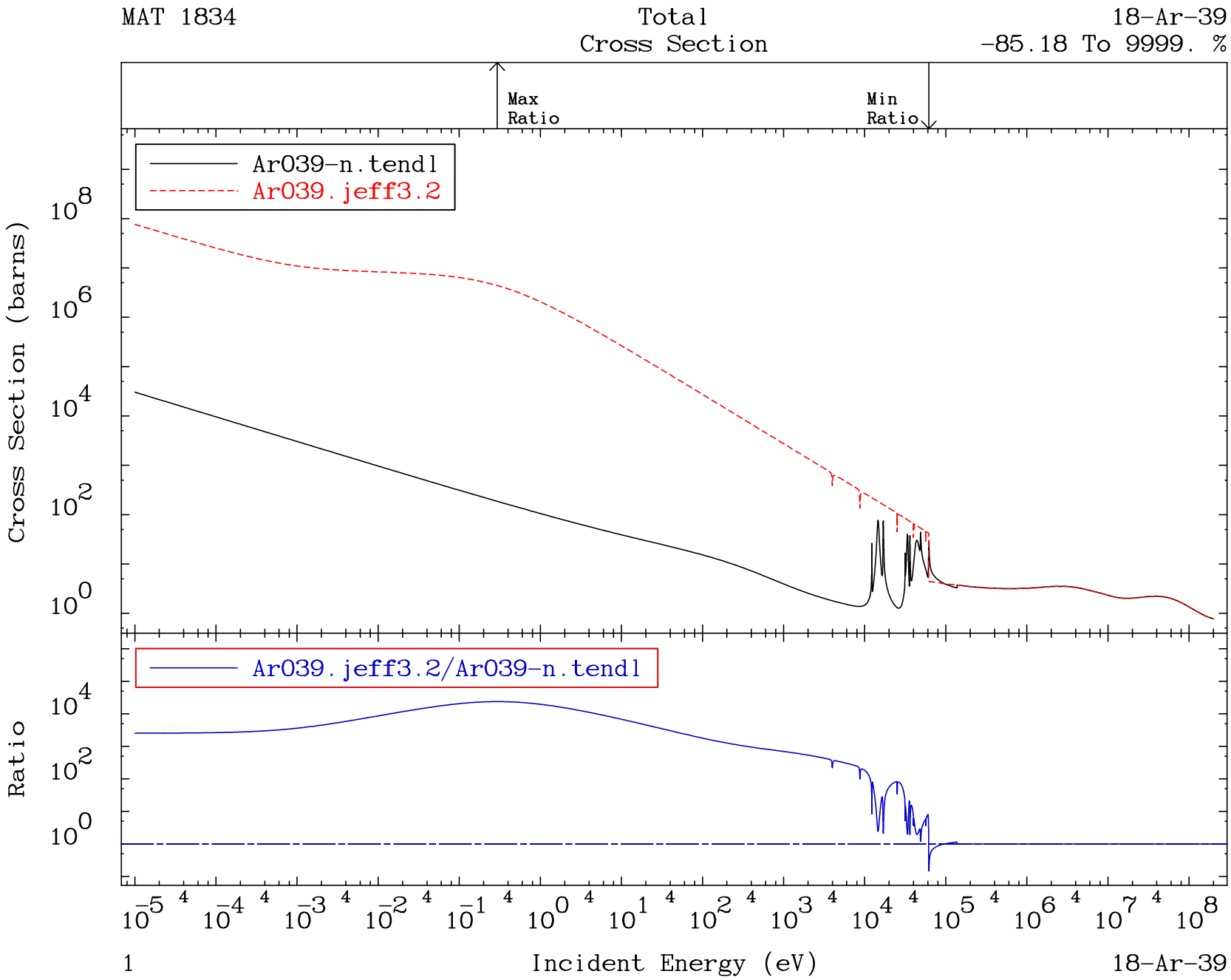
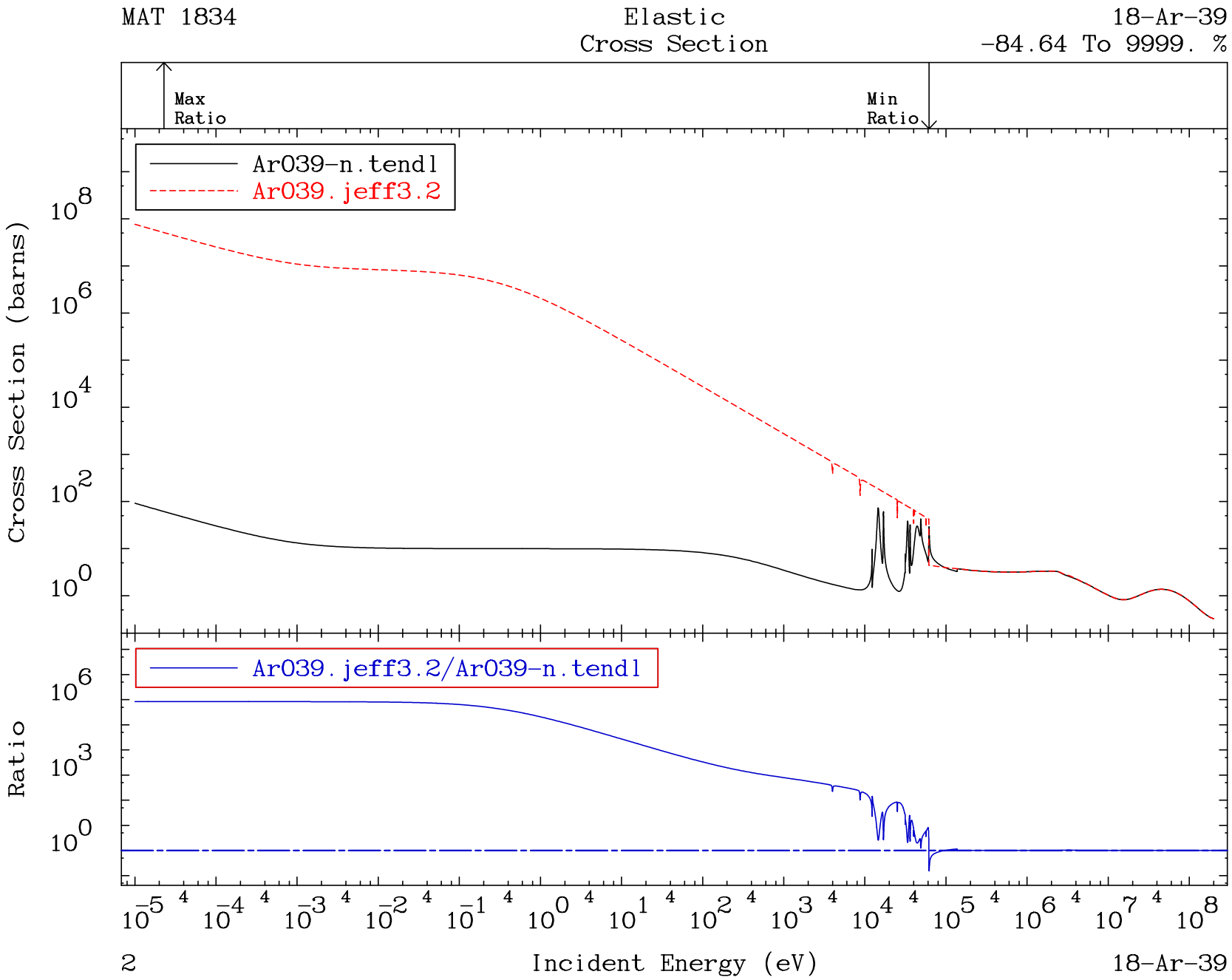
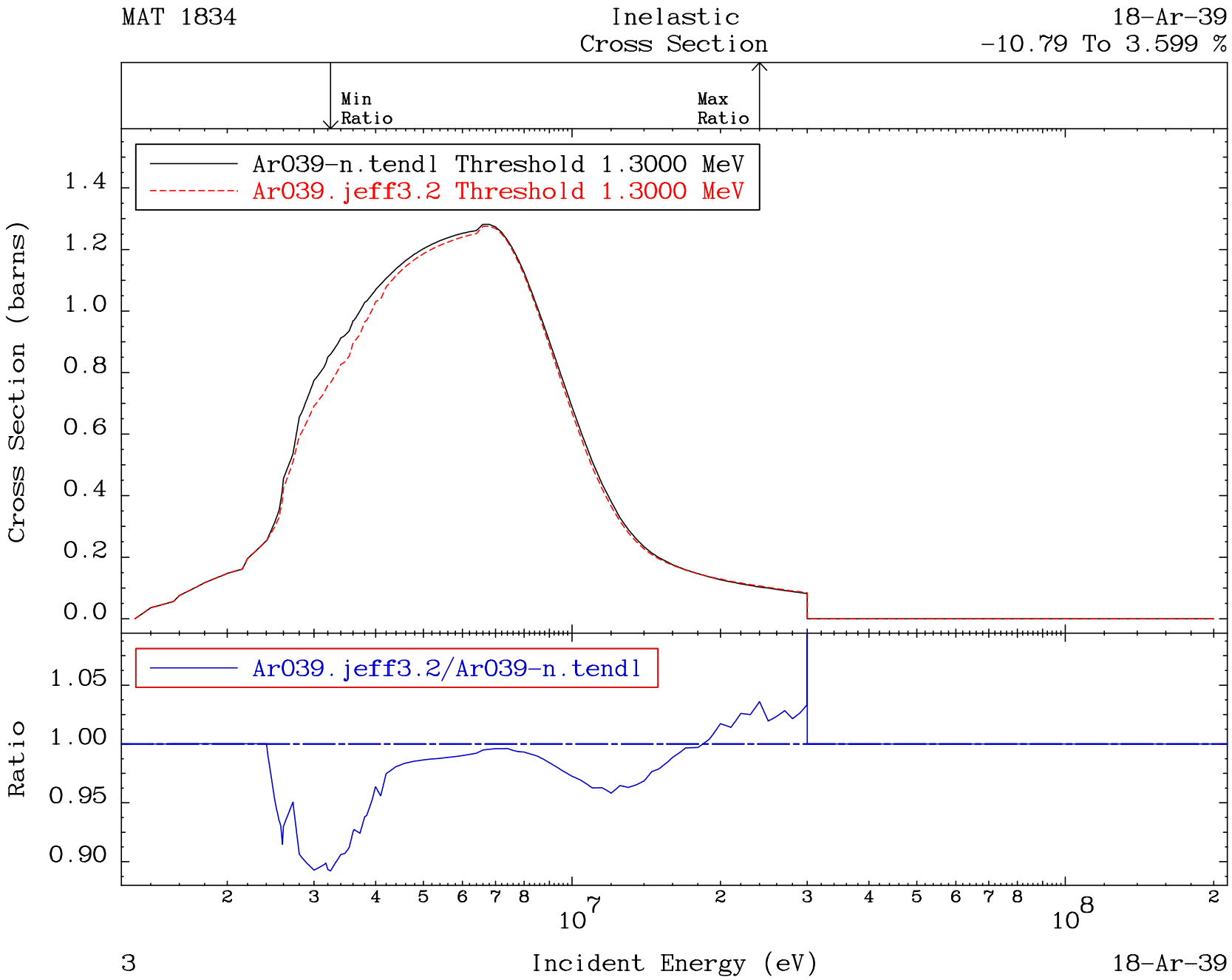
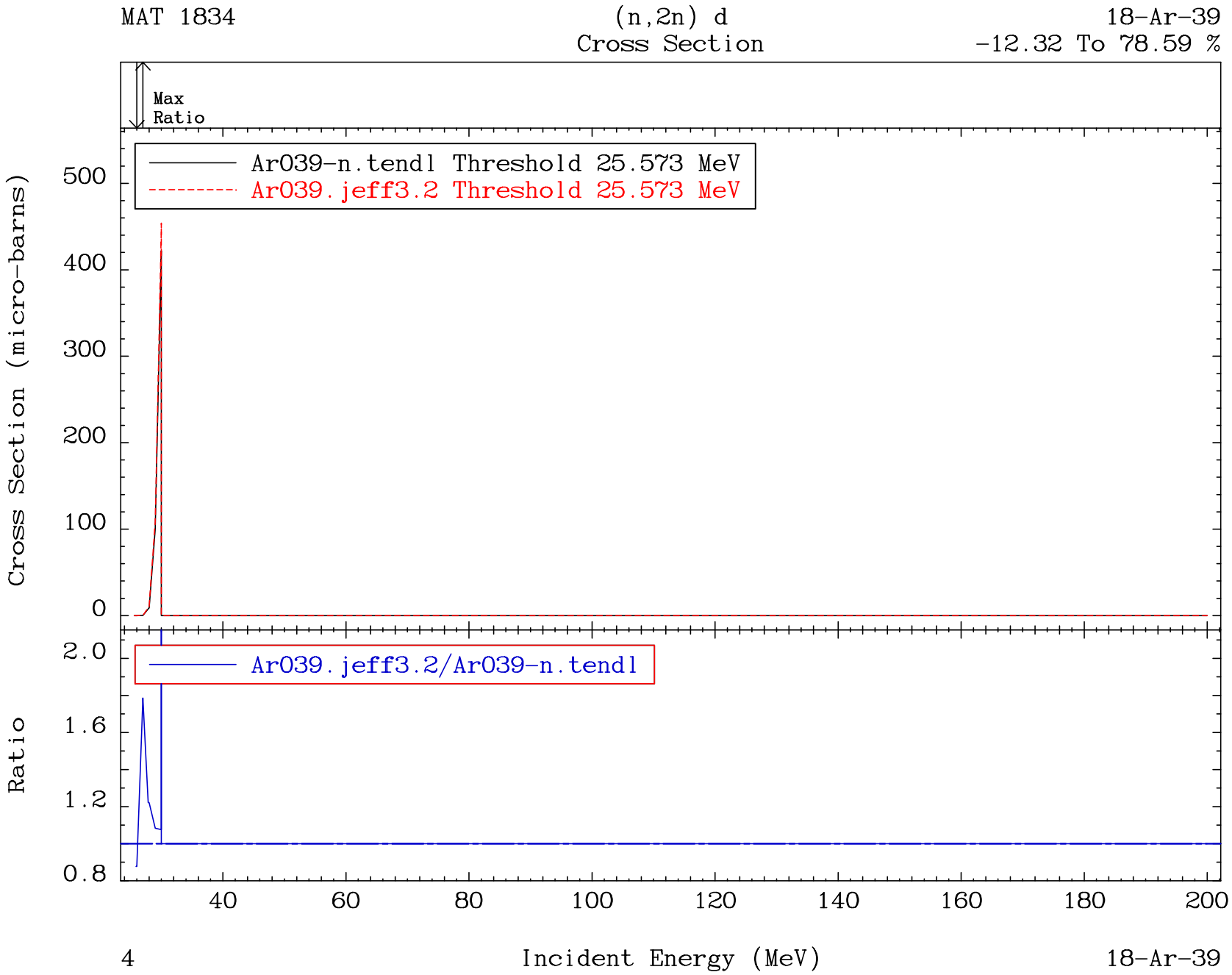
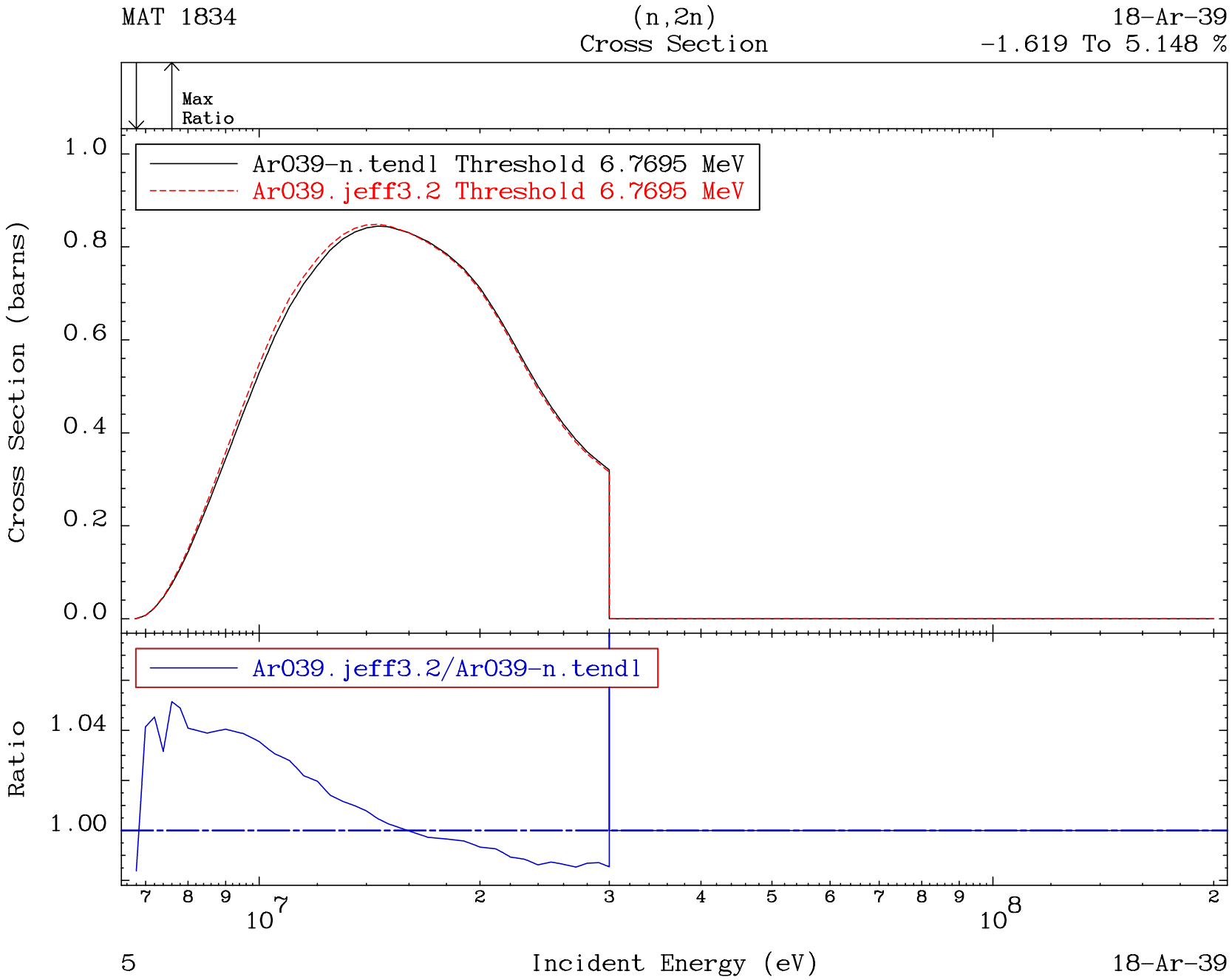
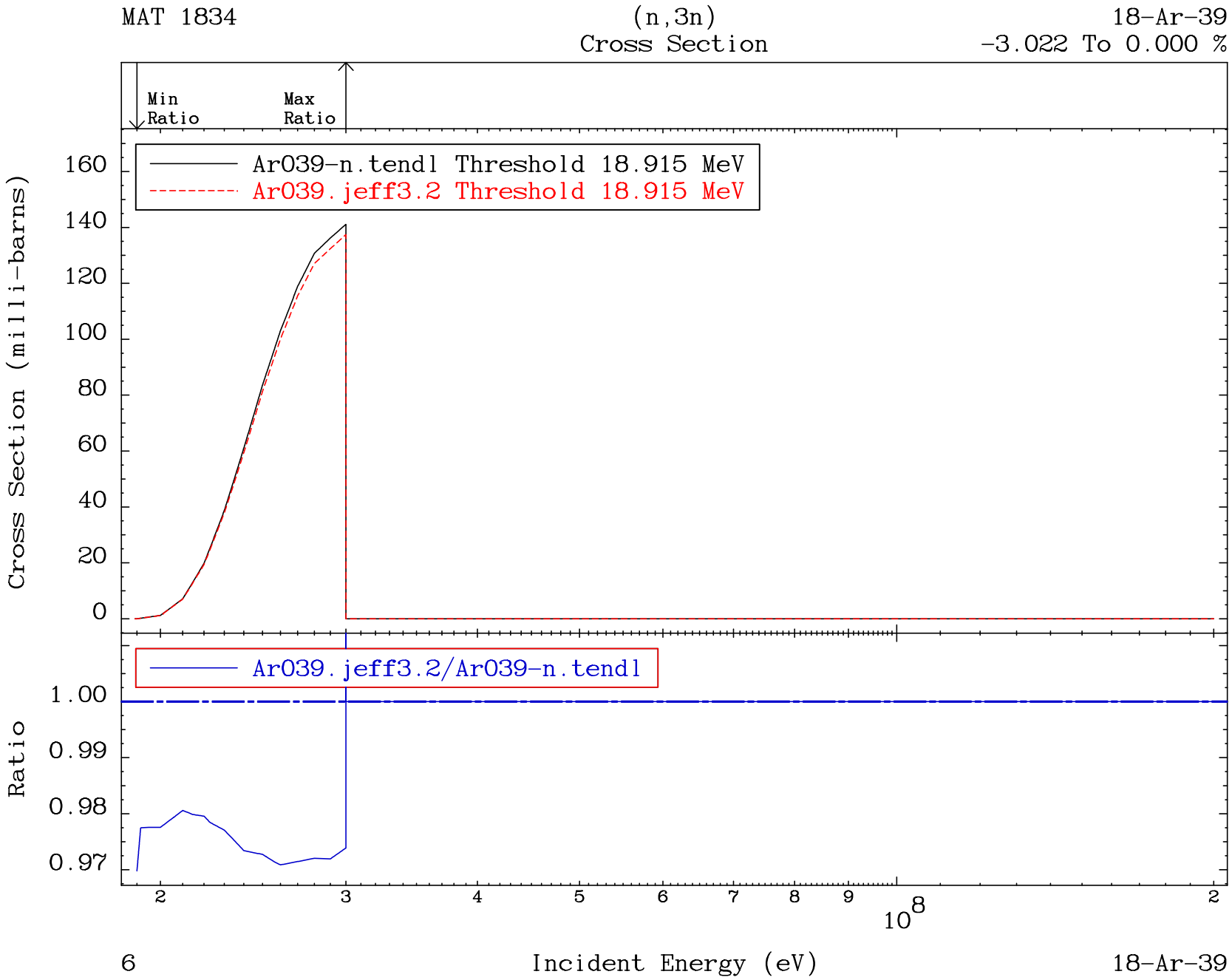

MAT 1834
Total
Cross Section
18-Ar-39
-85.18 To 9999. %
Max
Ratio
Min
Ratio
Ar039-n.tendl
Ar039.jeff3.2
Cross Section (barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
1
18-Ar-39

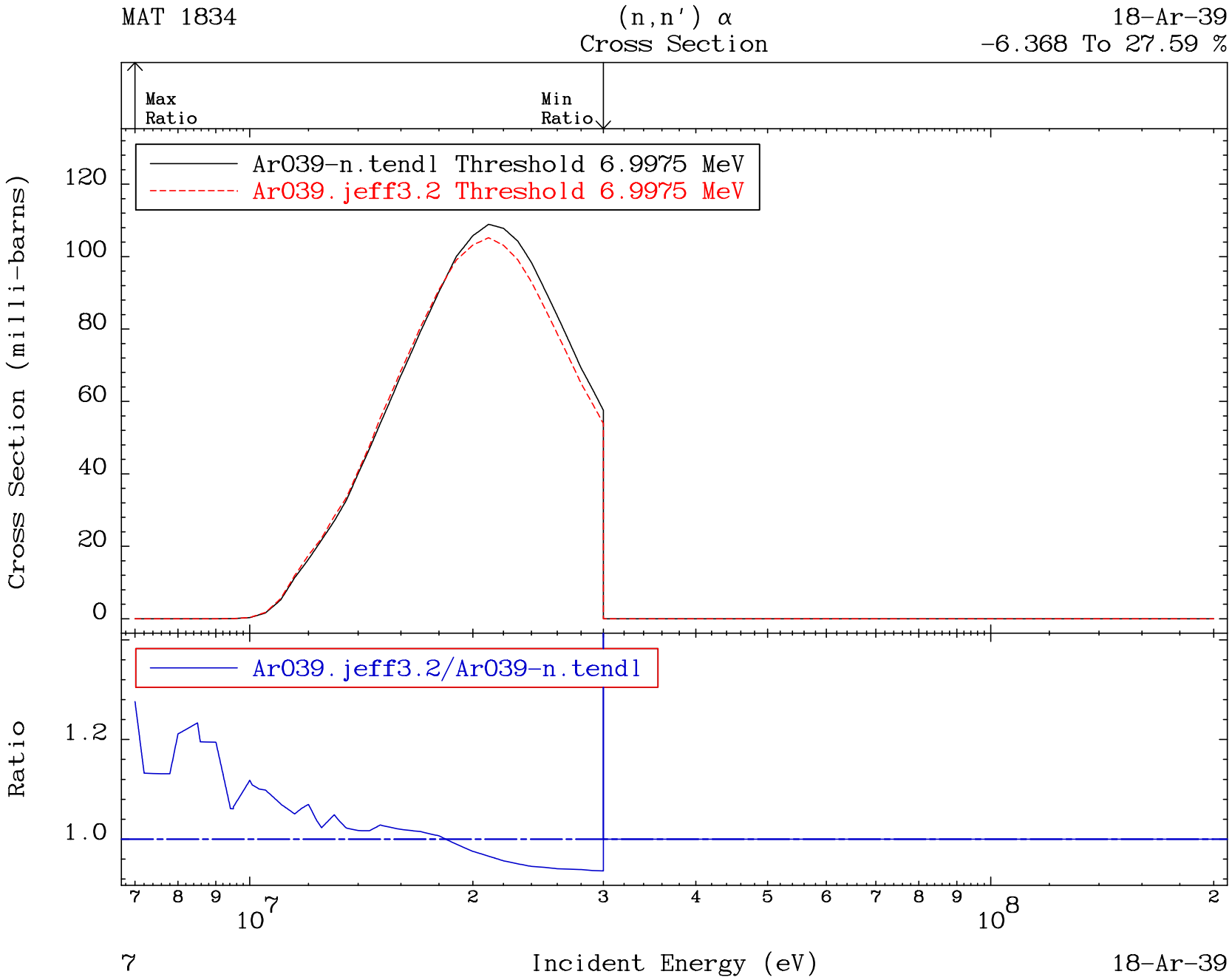

MAT 1834
Elastic
Cross Section
18-Ar-39
-84.64 To 9999. %
Max
Ratio
Min
Ratio
Ar039-n.tendl
Ar039.jeff3.2
Cross Section (barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
2
18-Ar-39

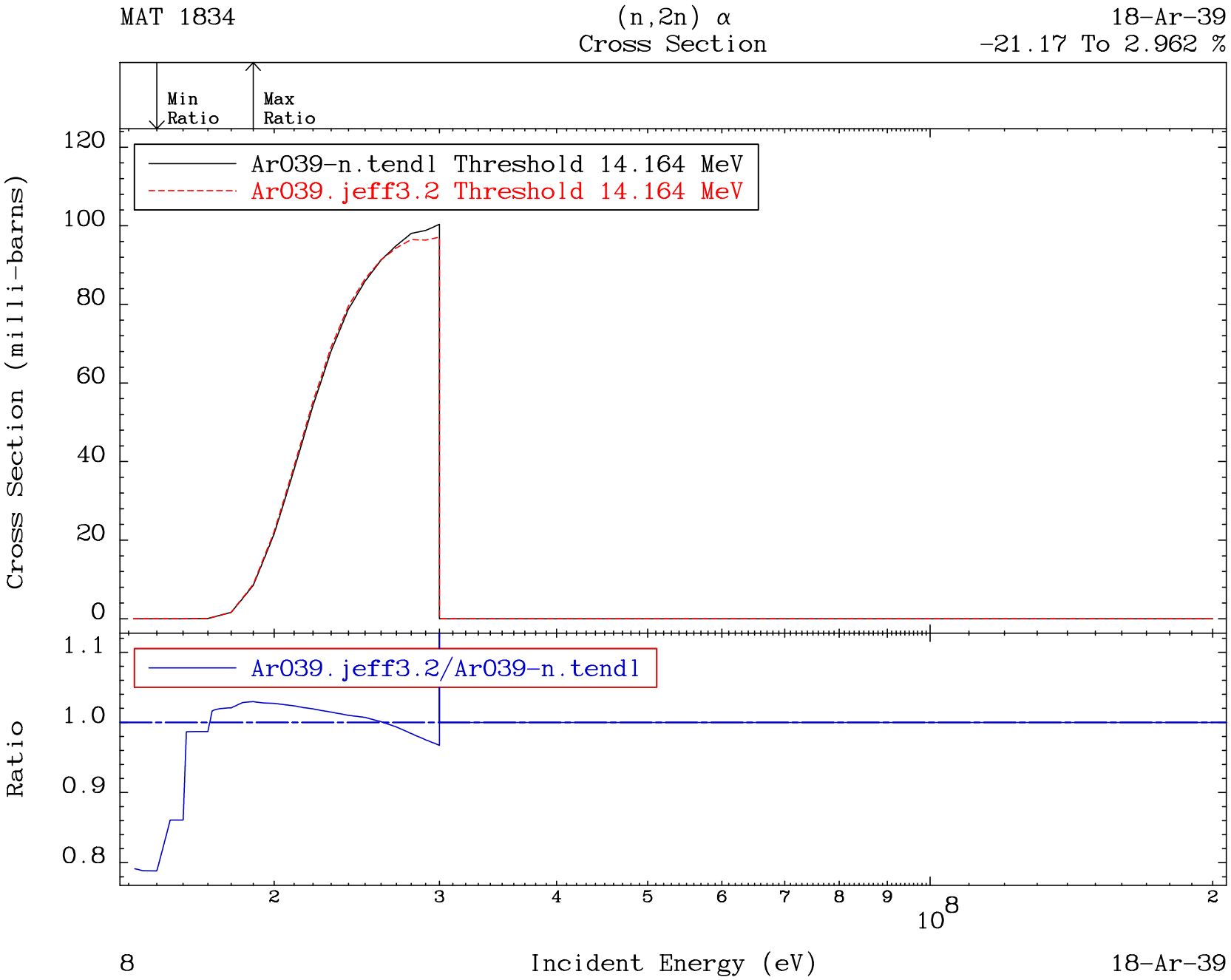

MAT 1834
Inelastic
Cross Section
18-Ar-39
-10.79 To 3.599 %
Min
Ratio
Max
Ratio
Ar039-n.tendl Threshold 1.3000 MeV
Ar039.jeff3.2 Threshold 1.3000 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.05
1.00
0.95
0.90
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
18-Ar-39

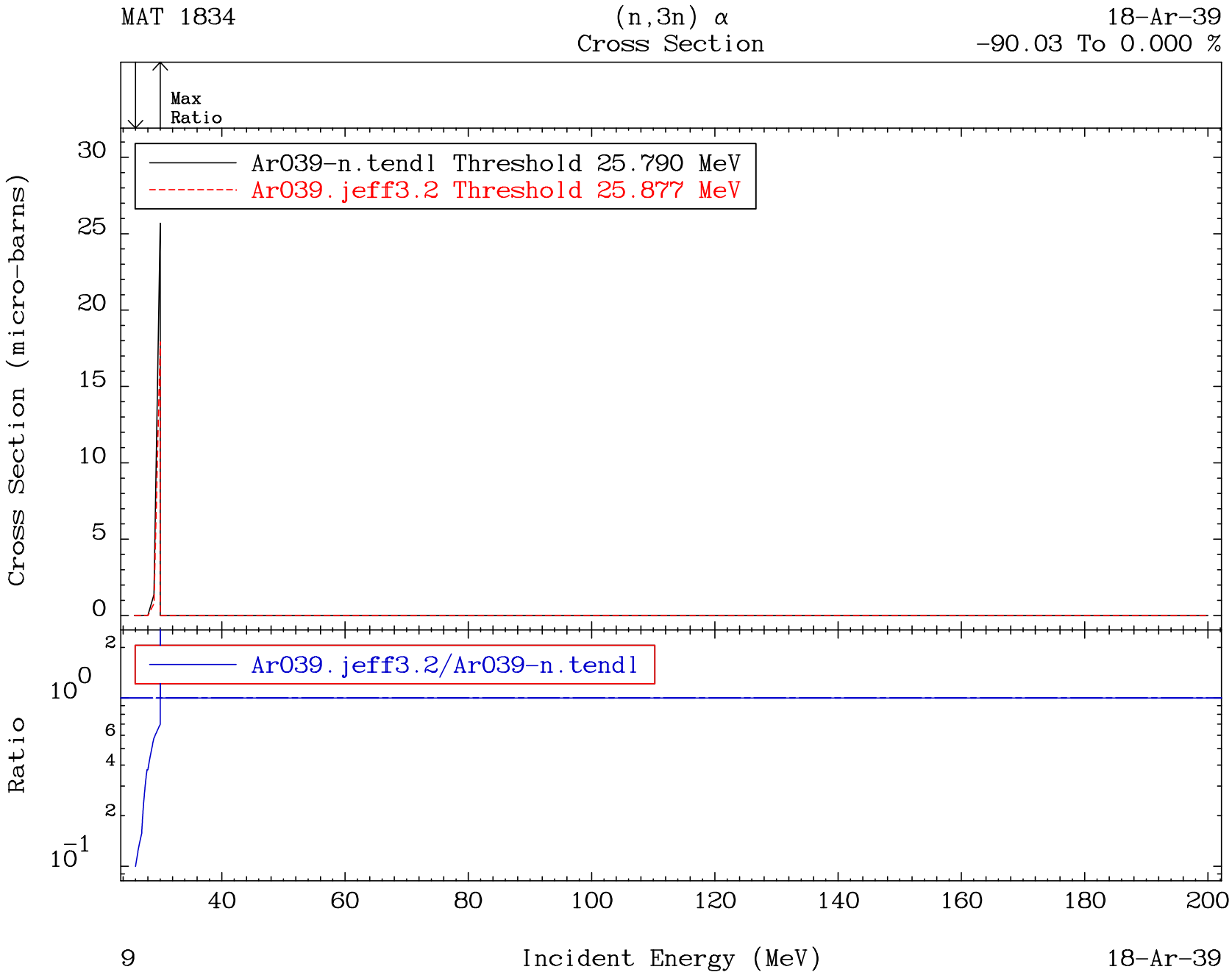

MAT 1834
(n,2n) d
Cross Section
18-Ar-39
-12.32 To 78.59 %
Max
Ratio
Ar039-n.tendl Threshold 25.573 MeV
Ar039.jeff3.2 Threshold 25.573 MeV
Cross Section (micro-barns)
500
400
300
200
100
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
2.0
1.6
1.2
0.8
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
18-Ar-39

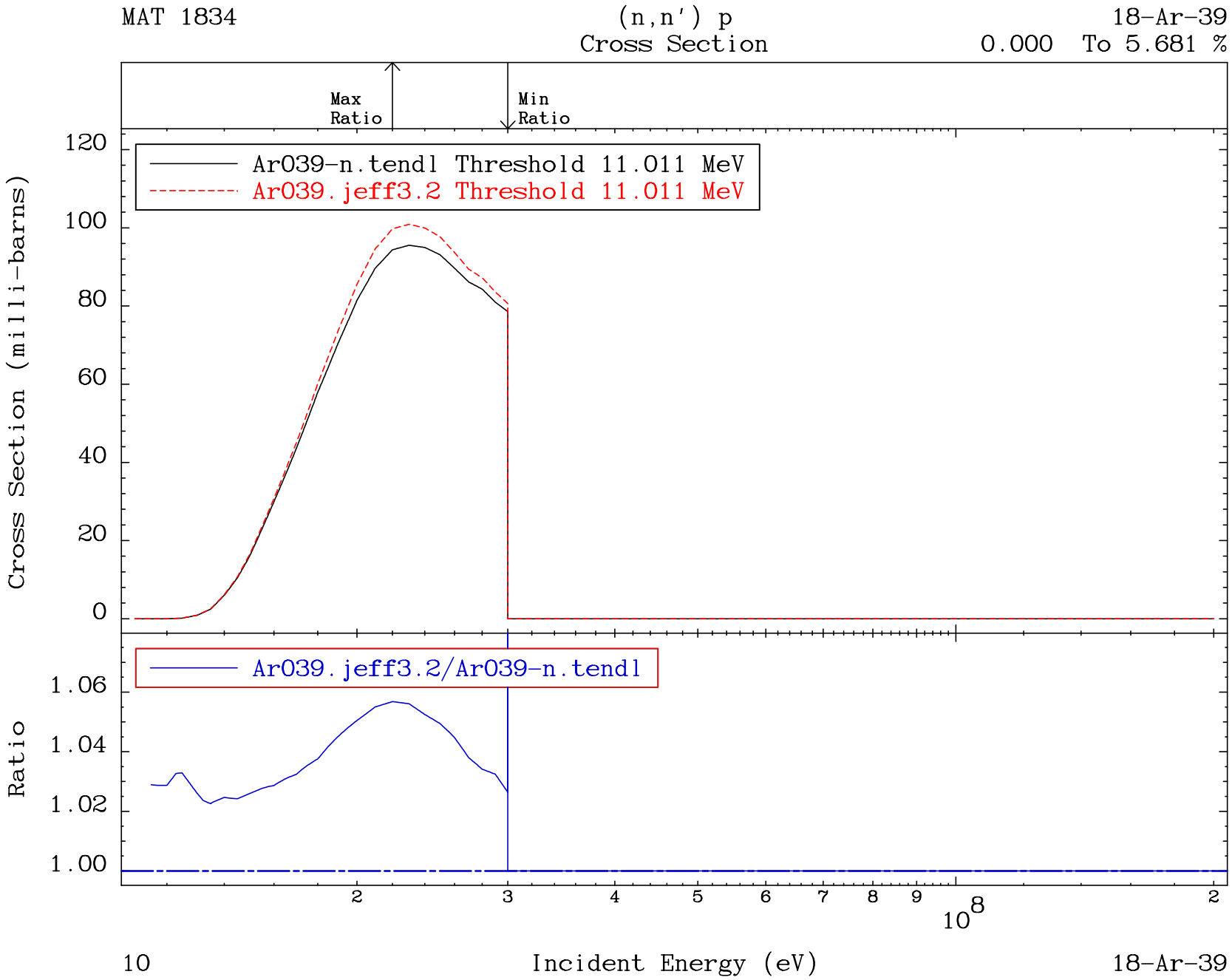

MAT 1834
(n,2n)
Cross Section
18-Ar-39
-1.619 To 5.148 %
Max
Ratio
Ar039-n.tendl Threshold 6.7695 MeV
Ar039.jeff3.2 Threshold 6.7695 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.04
1.00
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
18-Ar-39

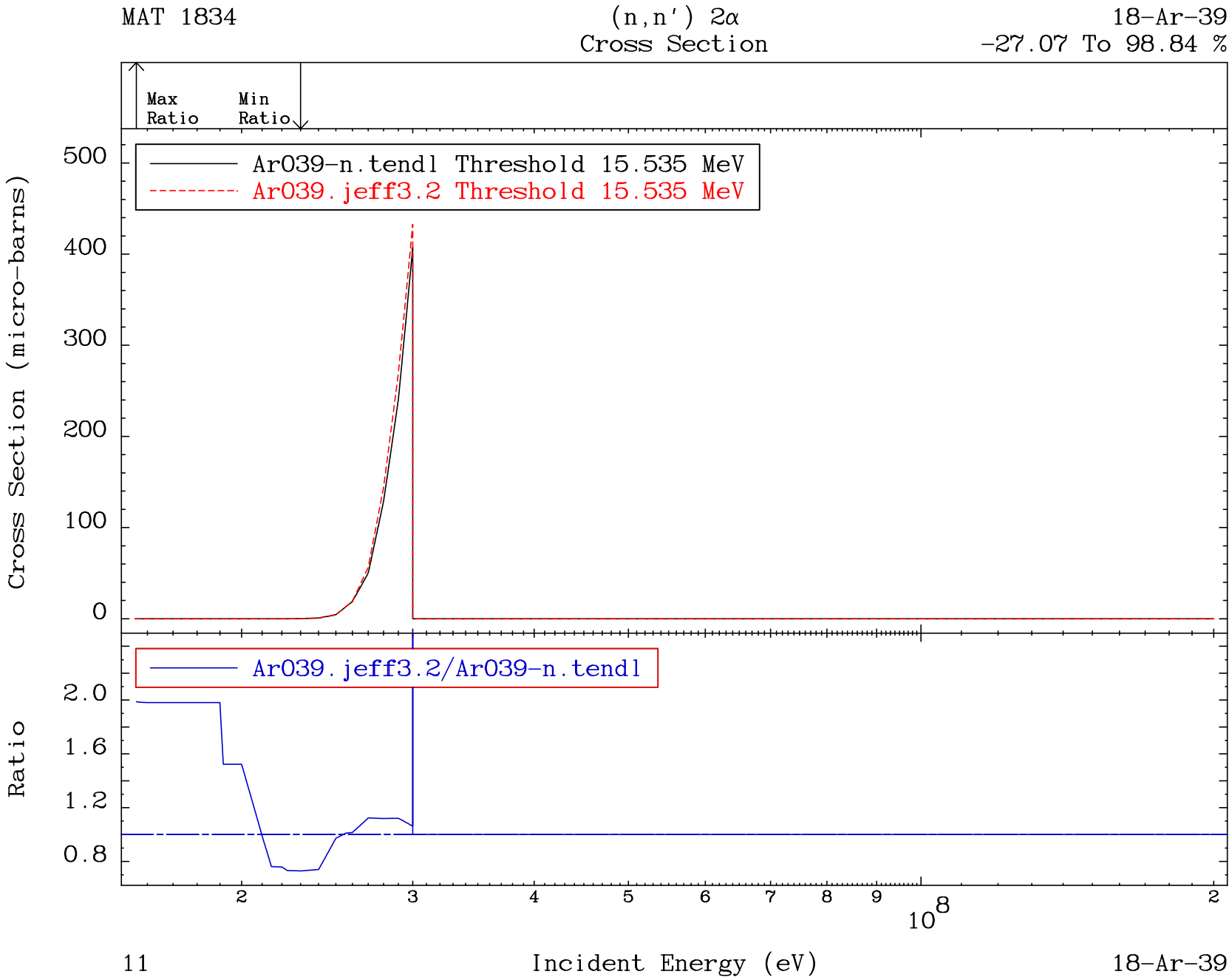

MAT 1834
(n,3n)
Cross Section
18-Ar-39
-3.022 To 0.000 %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 18.915 MeV
Ar039.jeff3.2 Threshold 18.915 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.00
0.99
0.98
0.97
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
18-Ar-39

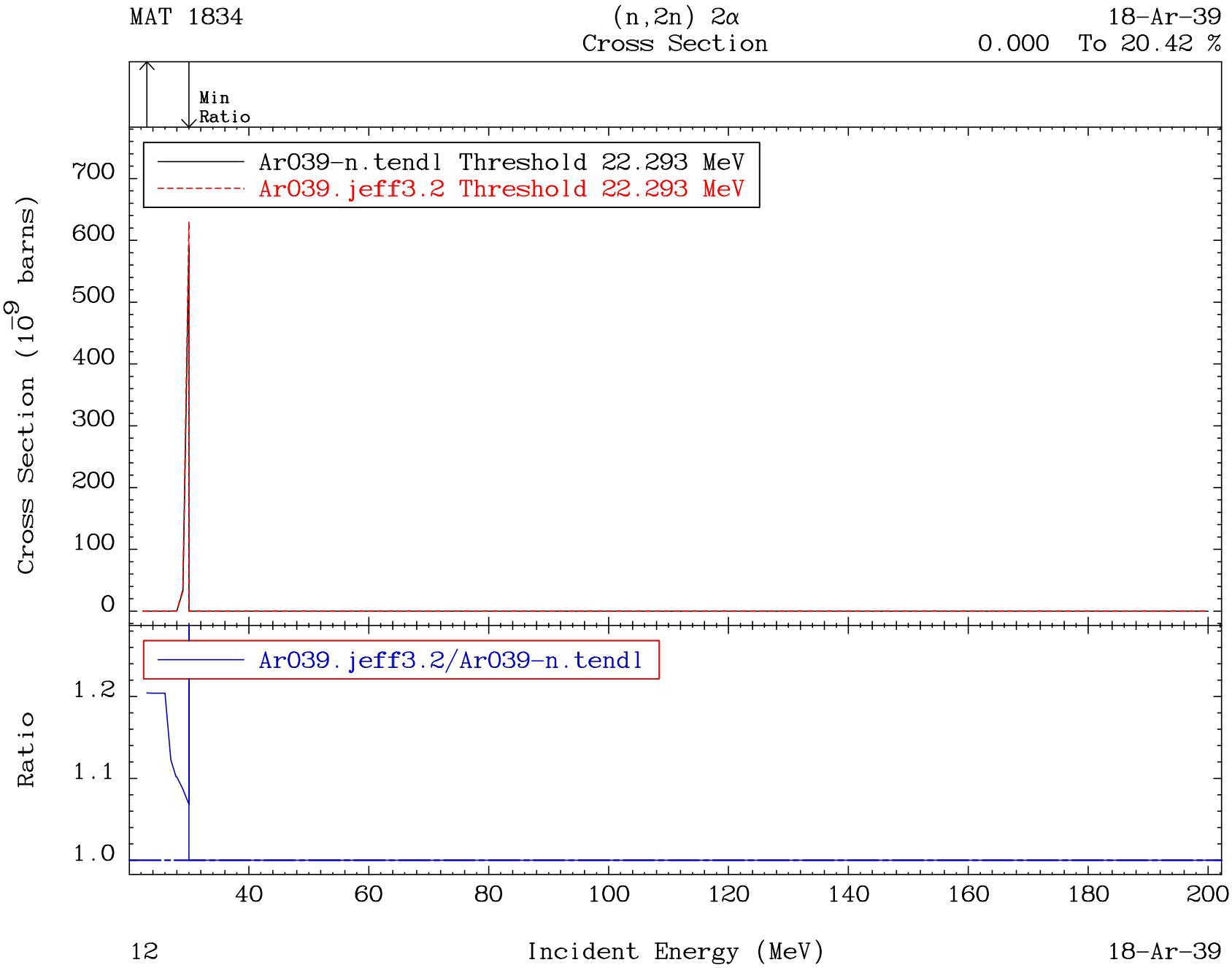

MAT 1834
(n,n') α
Cross Section
18-Ar-39
-6.368 To 27.59 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 6.9975 MeV
Ar039.jeff3.2 Threshold 6.9975 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.2
1.0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
18-Ar-39

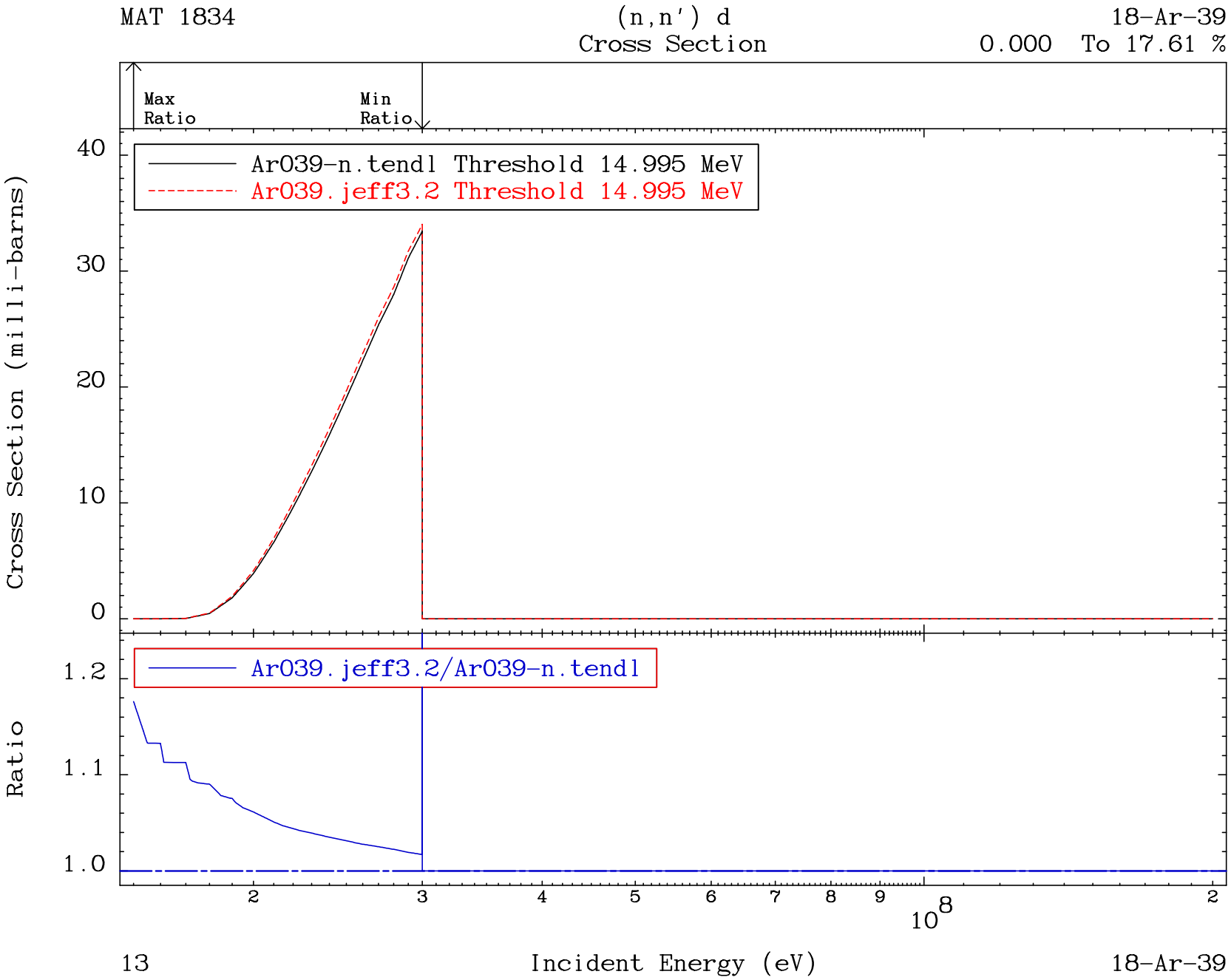

MAT 1834
(n,2n) α
Cross Section
18-Ar-39
-21.17 To 2.962 %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 14.164 MeV
Ar039.jeff3.2 Threshold 14.164 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.1
1.0
0.9
0.8
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
18-Ar-39

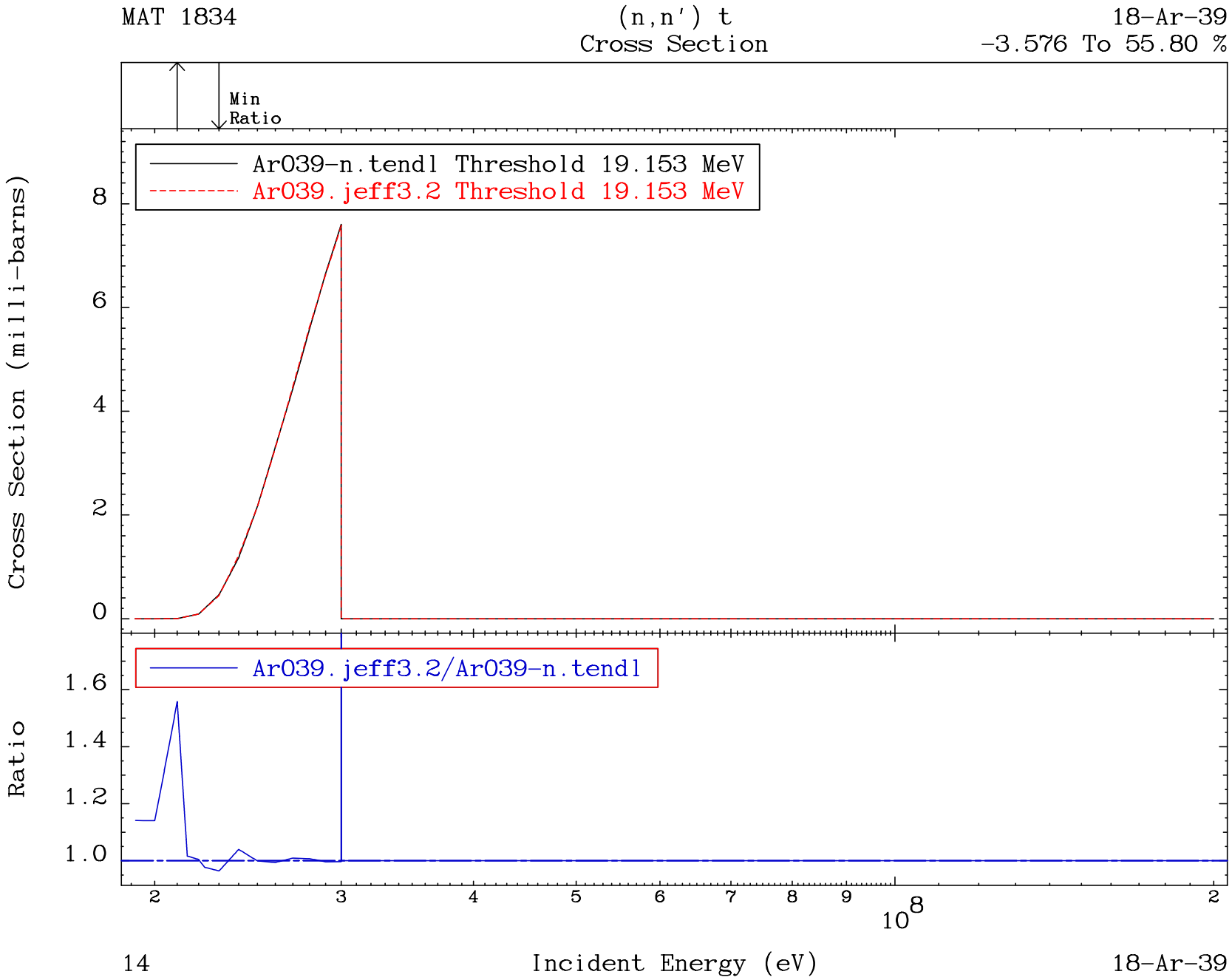

MAT 1834
(n,3n) α
Cross Section
18-Ar-39
-90.03 To 0.000 %
Max
Ratio
Ar039-n.tendl Threshold 25.790 MeV
Ar039.jeff3.2 Threshold 25.877 MeV
Cross Section (micro-barns)
30
25
20
15
10
5
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
2
10^0
6
4
2
10^-1
40
60
80
100
120
140
160
180
200
9
Incident Energy (MeV)
18-Ar-39

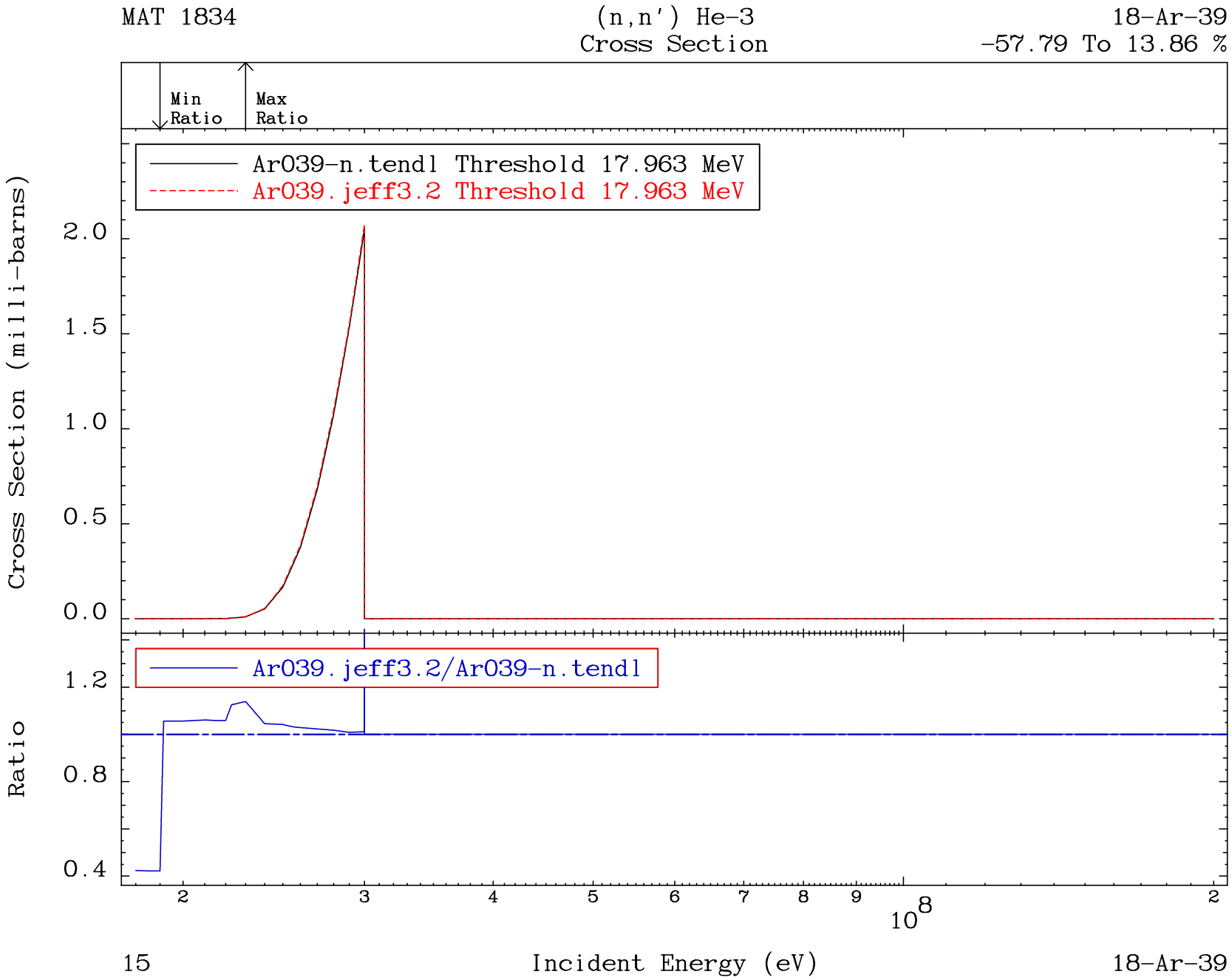

MAT 1834
(n,n') p
Cross Section
18-Ar-39
0.000 To 5.681 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 11.011 MeV
Ar039.jeff3.2 Threshold 11.011 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.06
1.04
1.02
1.00
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
18-Ar-39

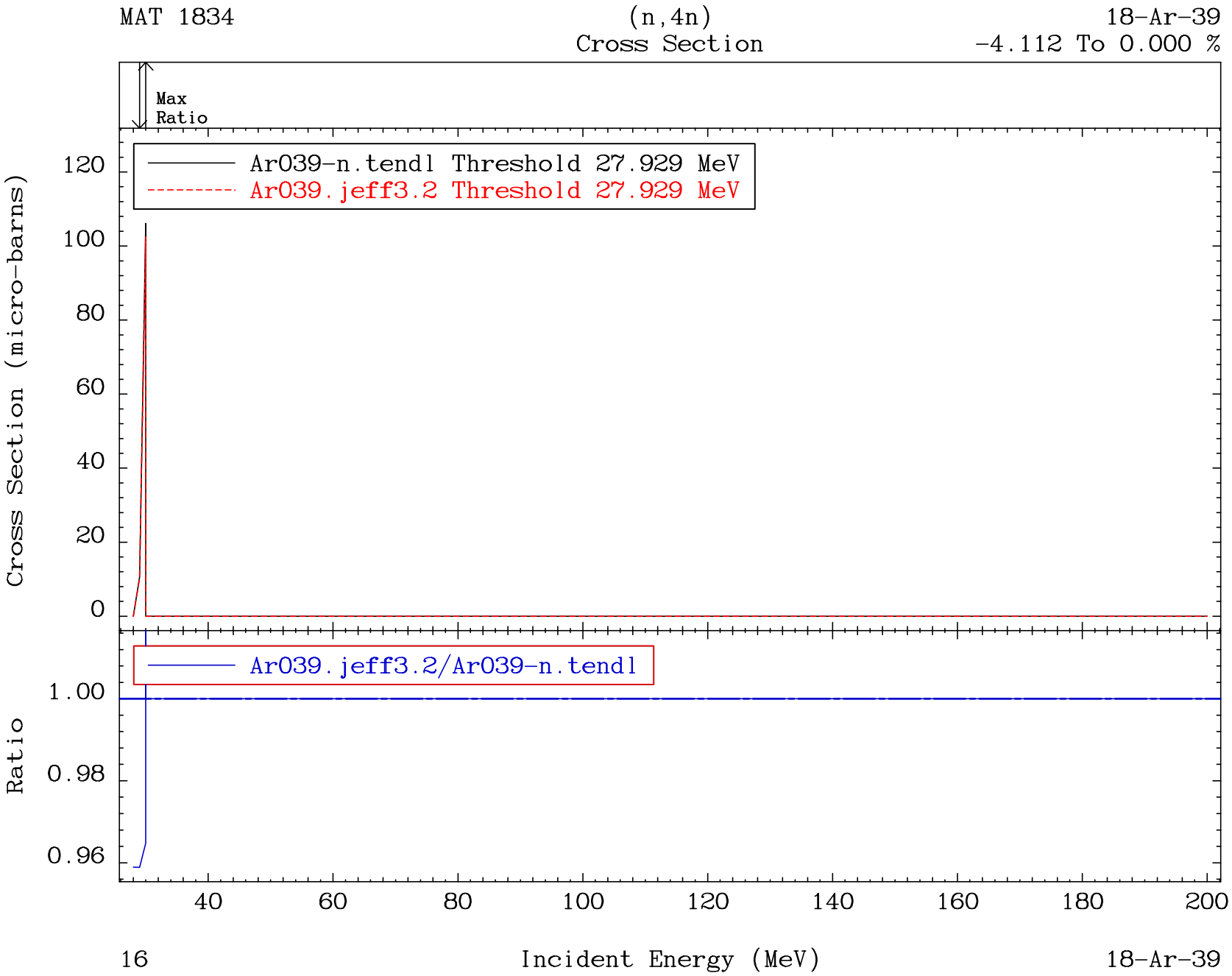

MAT 1834
(n,n') 2α
Cross Section
18-Ar-39
-27.07 To 98.84 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 15.535 MeV
Ar039.jeff3.2 Threshold 15.535 MeV
Cross Section (micro-barns)
500
400
300
200
100
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
2.0
1.6
1.2
0.8
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
18-Ar-39

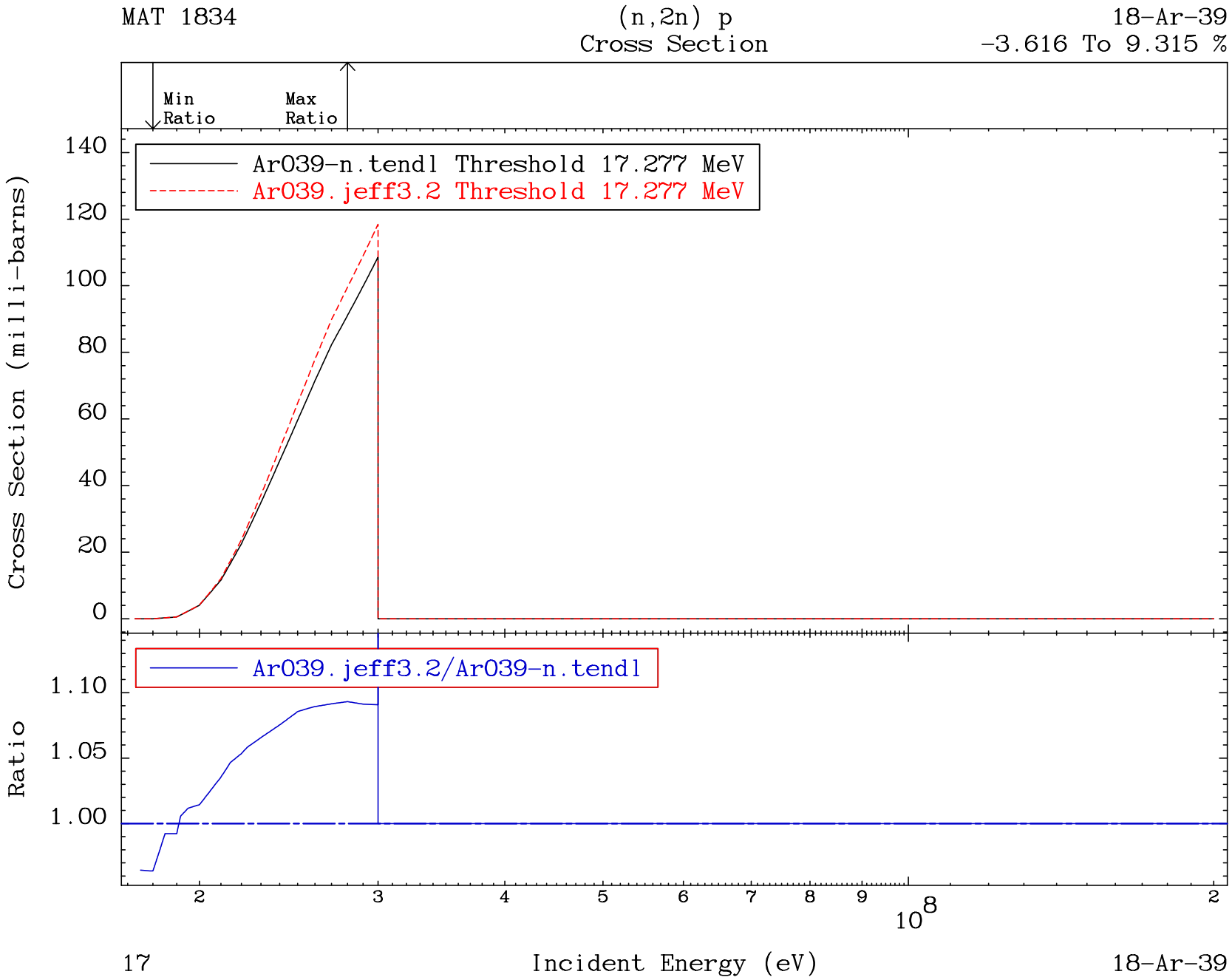

MAT 1834
(n,2n) 2α
Cross Section
18-Ar-39
0.000 To 20.42 %
Min
Ratio
Ar039-n.tendl Threshold 22.293 MeV
Ar039.jeff3.2 Threshold 22.293 MeV
Cross Section (10^-9 barns)
700
600
500
400
300
200
100
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.2
1.1
1.0
40
60
80
100
120
140
160
180
200
12
Incident Energy (MeV)
18-Ar-39

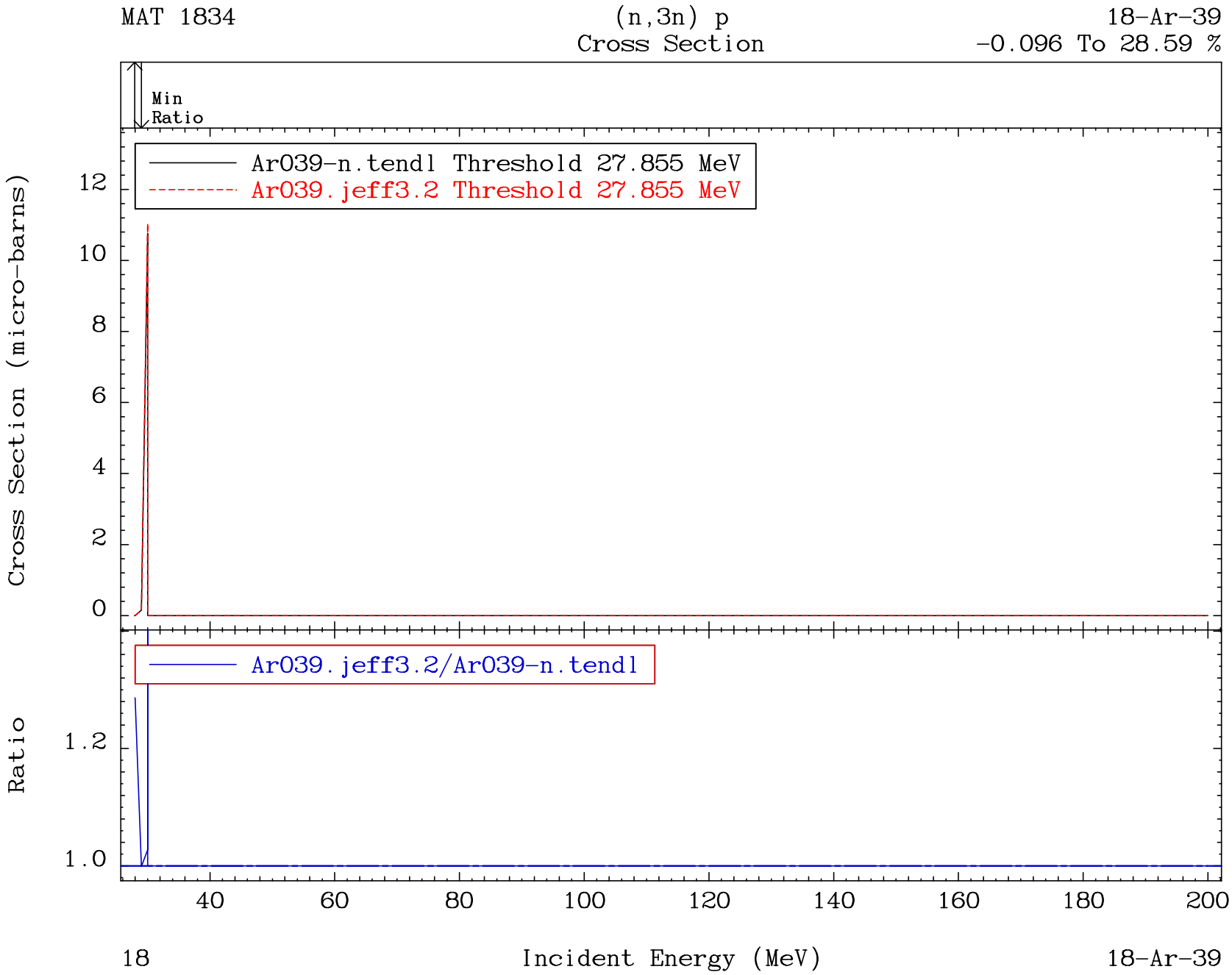

MAT 1834
(n,n') d
Cross Section
18-Ar-39
0.000 To 17.61 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 14.995 MeV
Ar039.jeff3.2 Threshold 14.995 MeV
Cross Section (milli-barns)
40
30
20
10
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.2
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
18-Ar-39

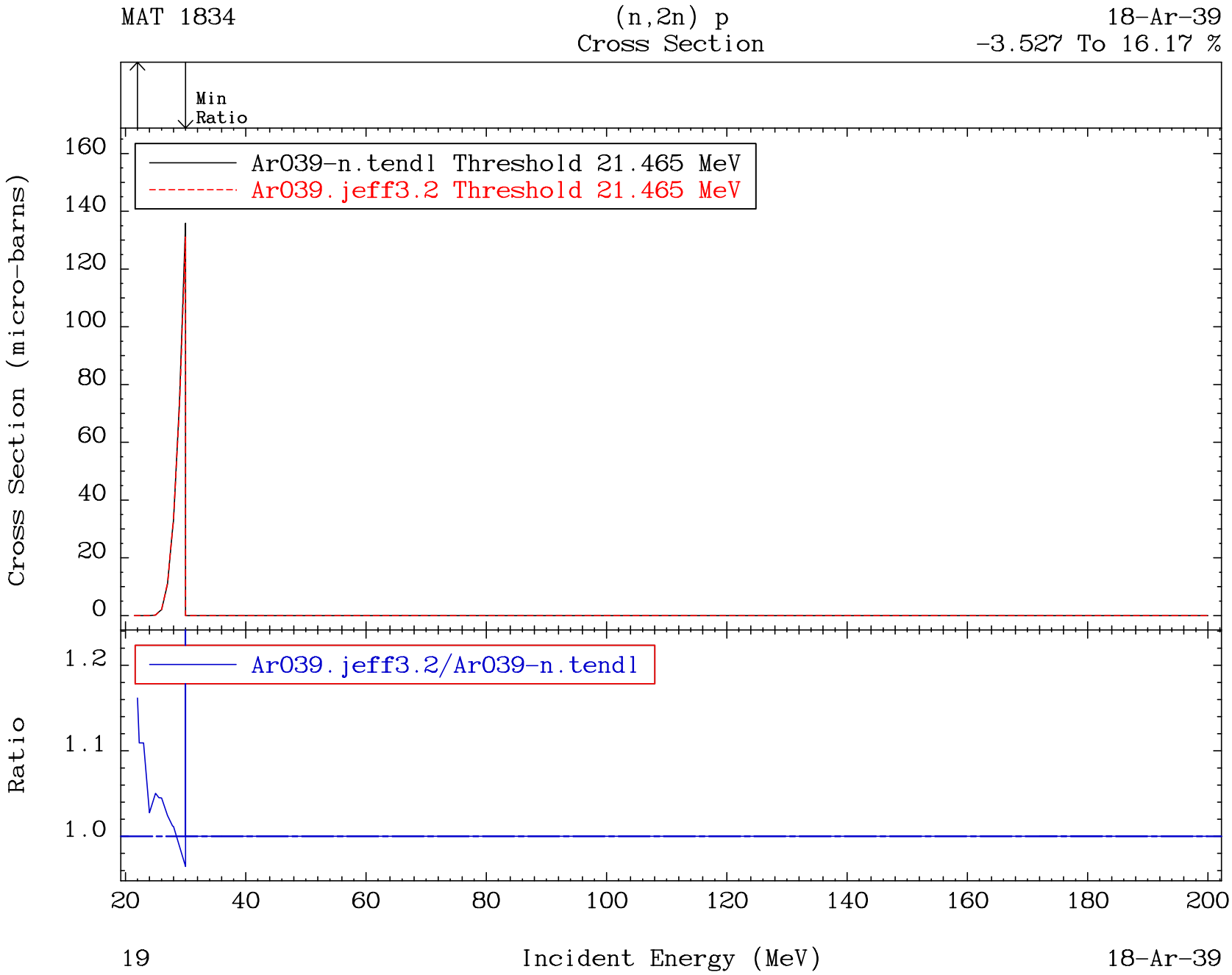

MAT 1834
(n,n') t
Cross Section
18-Ar-39
-3.576 To 55.80 %
Min
Ratio
Ar039-n.tendl Threshold 19.153 MeV
Ar039.jeff3.2 Threshold 19.153 MeV
Cross Section (milli-barns)
0
2
4
6
8
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.0
1.2
1.4
1.6
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
18-Ar-39

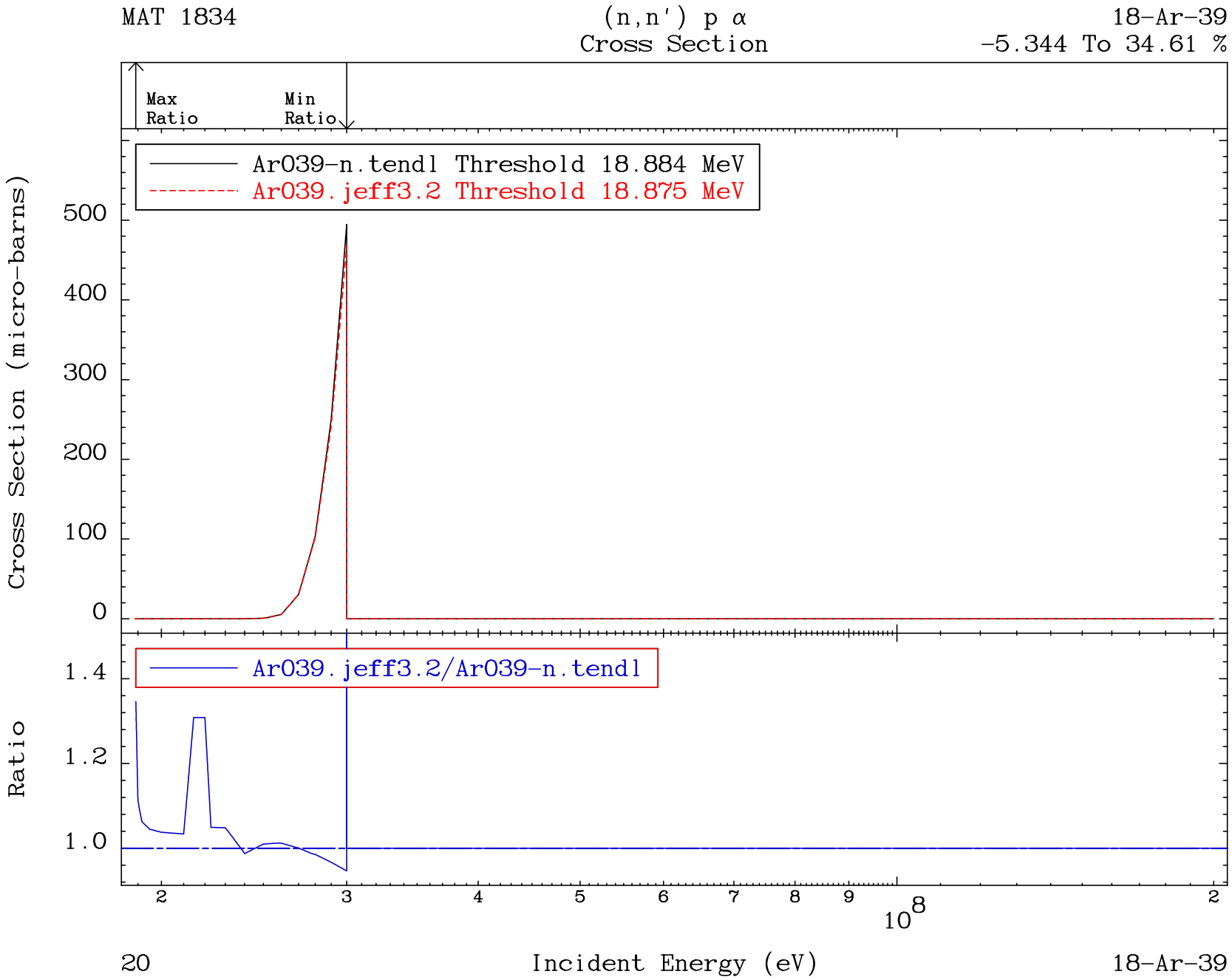

MAT 1834
(n,n') He-3
Cross Section
18-Ar-39
-57.79 To 13.86 %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 17.963 MeV
Ar039.jeff3.2 Threshold 17.963 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
18-Ar-39

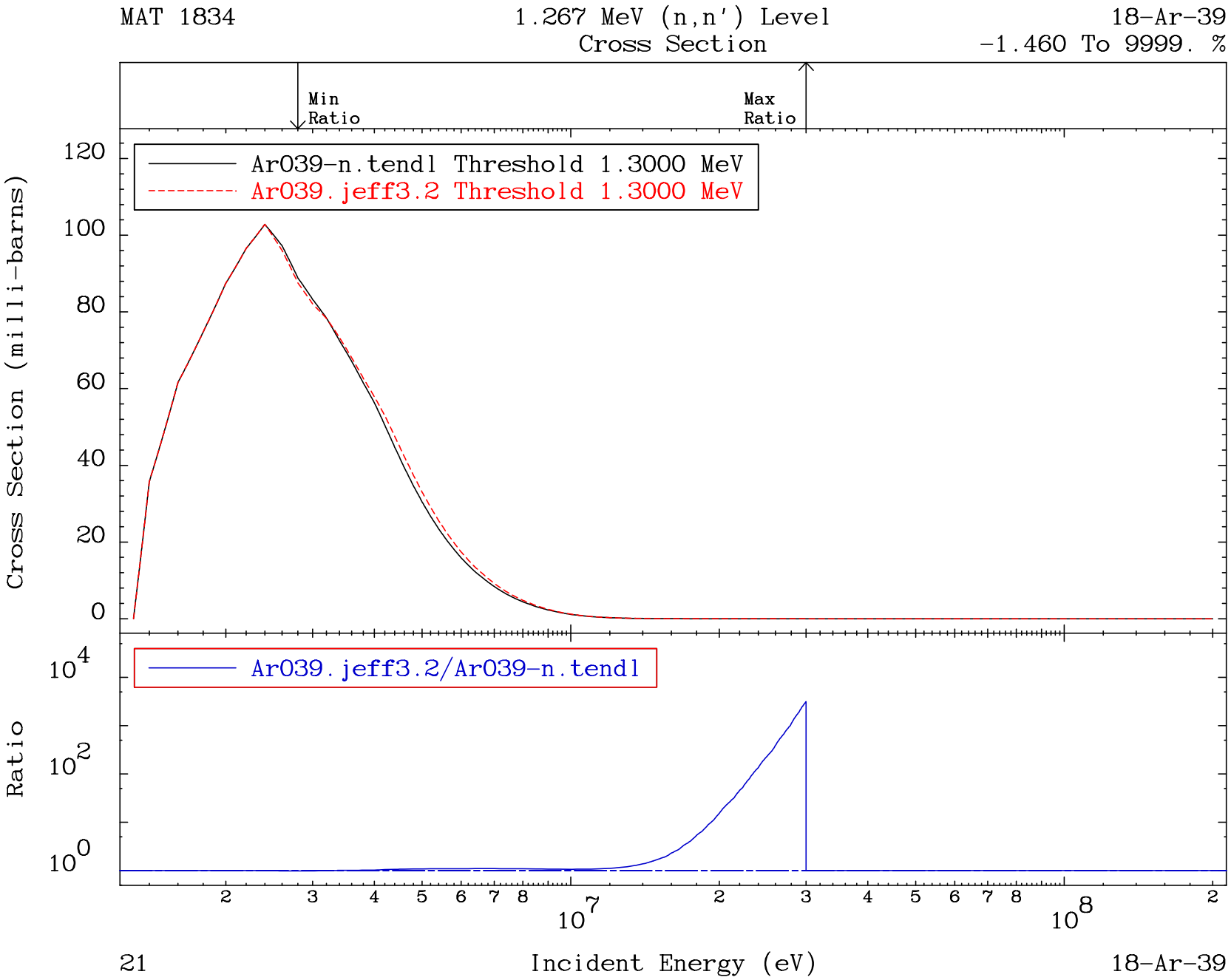

MAT 1834
(n,4n)
Cross Section
18-Ar-39
-4.112 To 0.000 %
Max
Ratio
Ar039-n.tendl Threshold 27.929 MeV
Ar039.jeff3.2 Threshold 27.929 MeV
Cross Section (micro-barns)
120
100
80
60
40
20
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.00
0.98
0.96
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
18-Ar-39

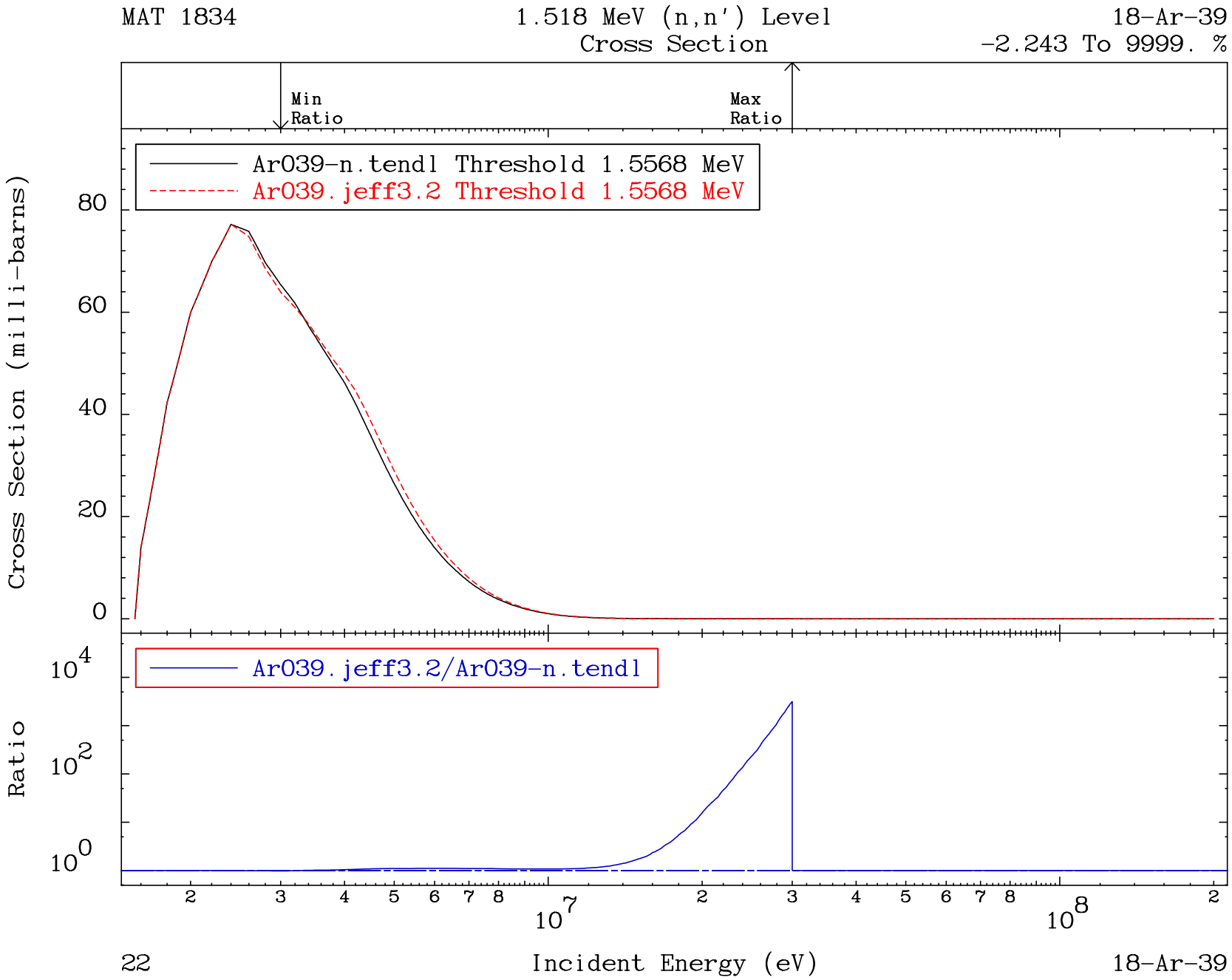

MAT 1834
(n,2n) p
Cross Section
18-Ar-39
-3.616 To 9.315 %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 17.277 MeV
Ar039.jeff3.2 Threshold 17.277 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.10
1.05
1.00
2
3
4
5
6
7
8
9
2
10^8
17
Incident Energy (eV)
18-Ar-39

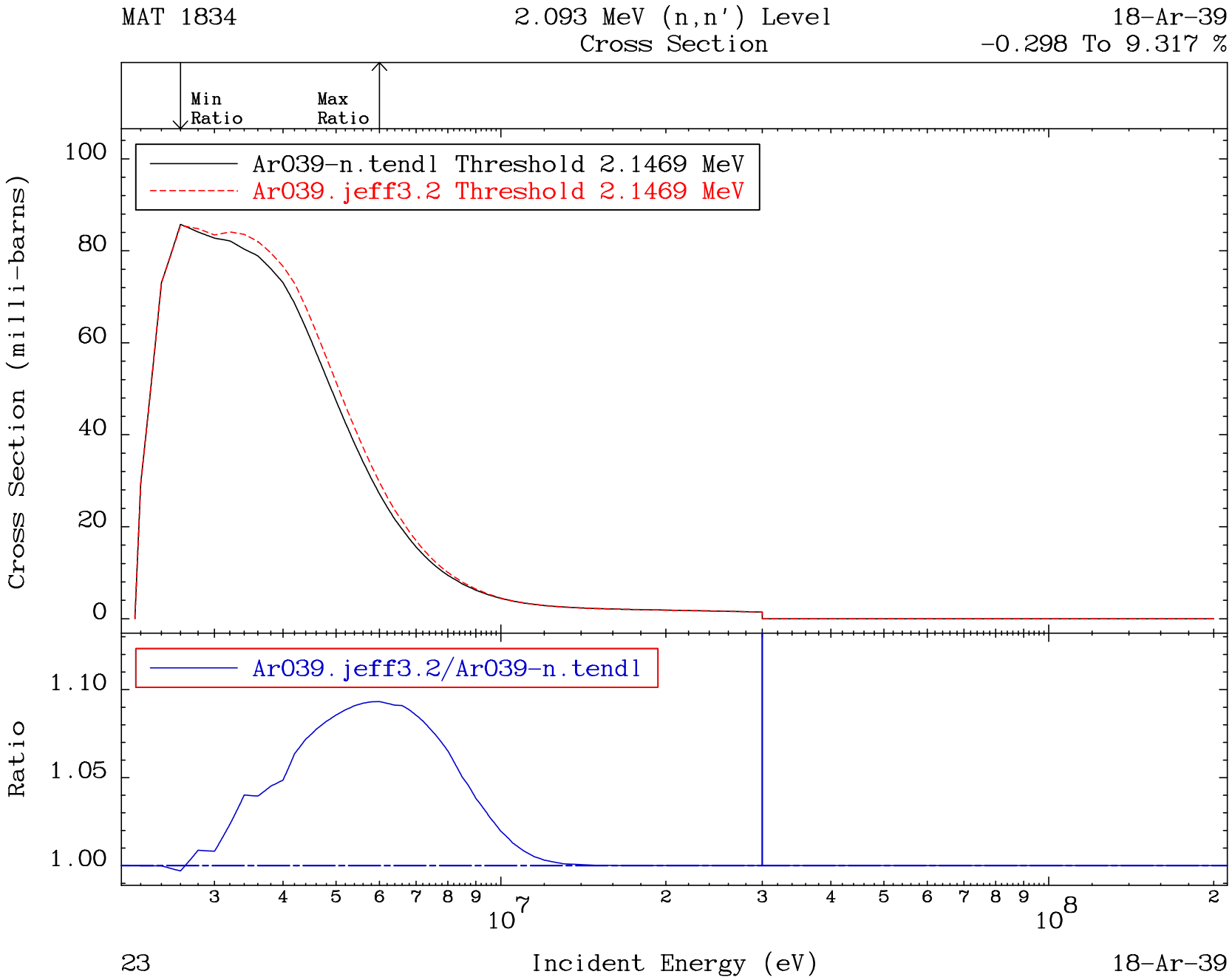

MAT 1834
(n,3n) p
Cross Section
18-Ar-39
-0.096 To 28.59 %
Min
Ratio
Ar039-n.tendl Threshold 27.855 MeV
Ar039.jeff3.2 Threshold 27.855 MeV
Cross Section (micro-barns)
0
2
4
6
8
10
12
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.0
1.2
40
60
80
100
120
140
160
180
200
18
Incident Energy (MeV)
18-Ar-39

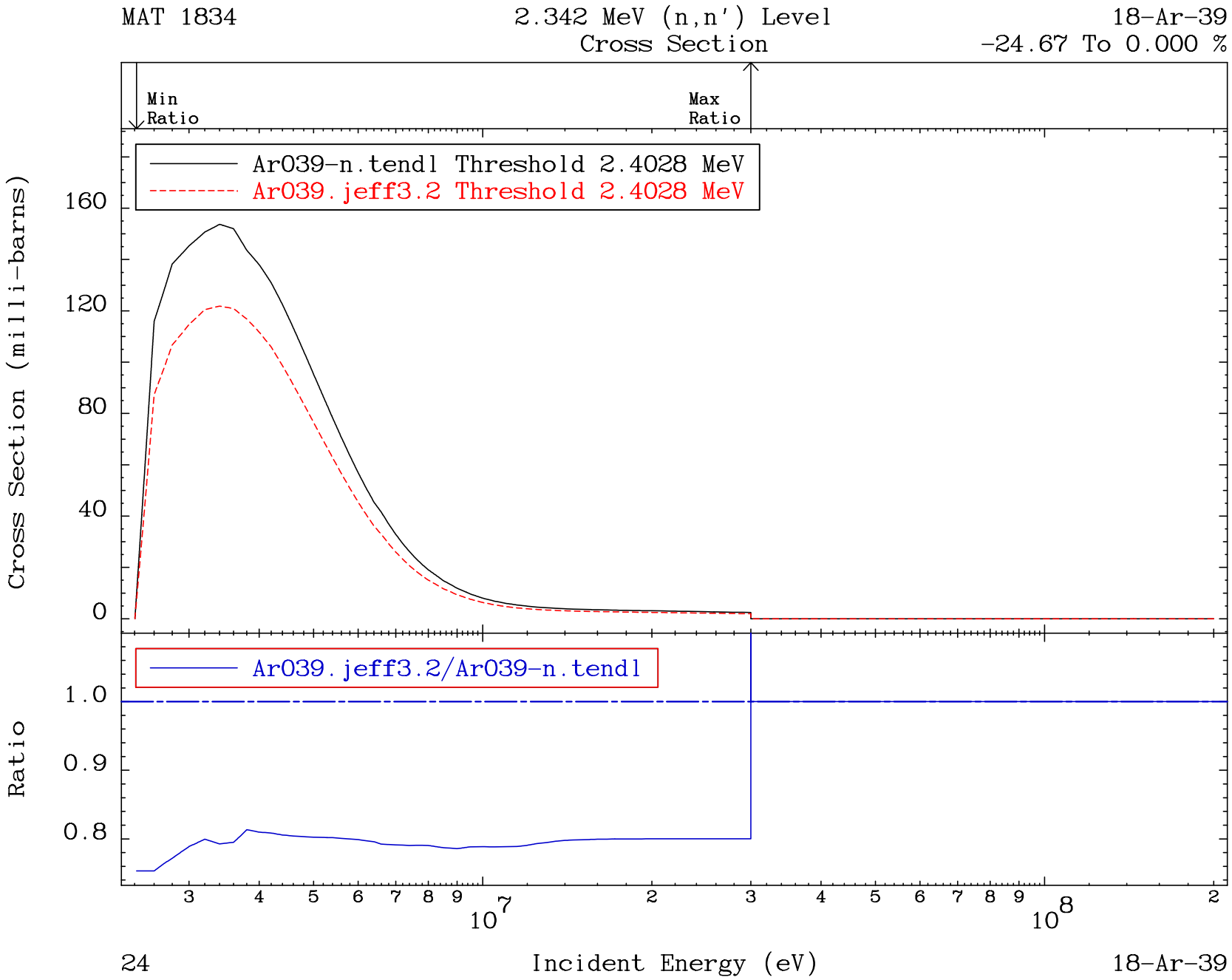

MAT 1834
(n,2n) p
Cross Section
18-Ar-39
-3.527 To 16.17 %
Min
Ratio
Ar039-n.tendl Threshold 21.465 MeV
Ar039.jeff3.2 Threshold 21.465 MeV
Cross Section (micro-barns)
160
140
120
100
80
60
40
20
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.2
1.1
1.0
20
40
60
80
100
120
140
160
180
200
19
Incident Energy (MeV)
18-Ar-39

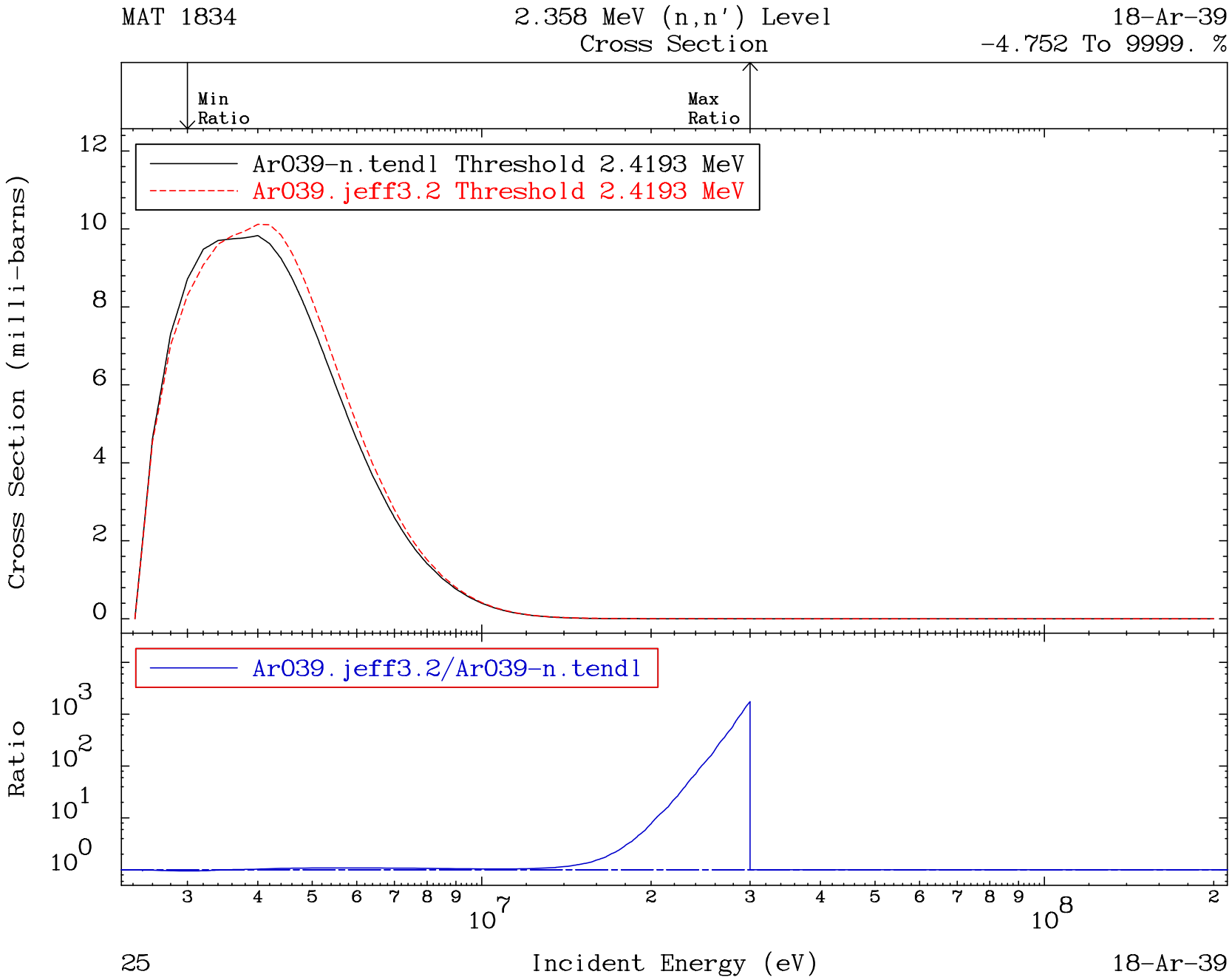

MAT 1834
(n,n') p α
Cross Section
18-Ar-39
-5.344 To 34.61 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 18.884 MeV
Ar039.jeff3.2 Threshold 18.875 MeV
Cross Section (micro-barns)
500
400
300
200
100
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
20
Incident Energy (eV)
18-Ar-39

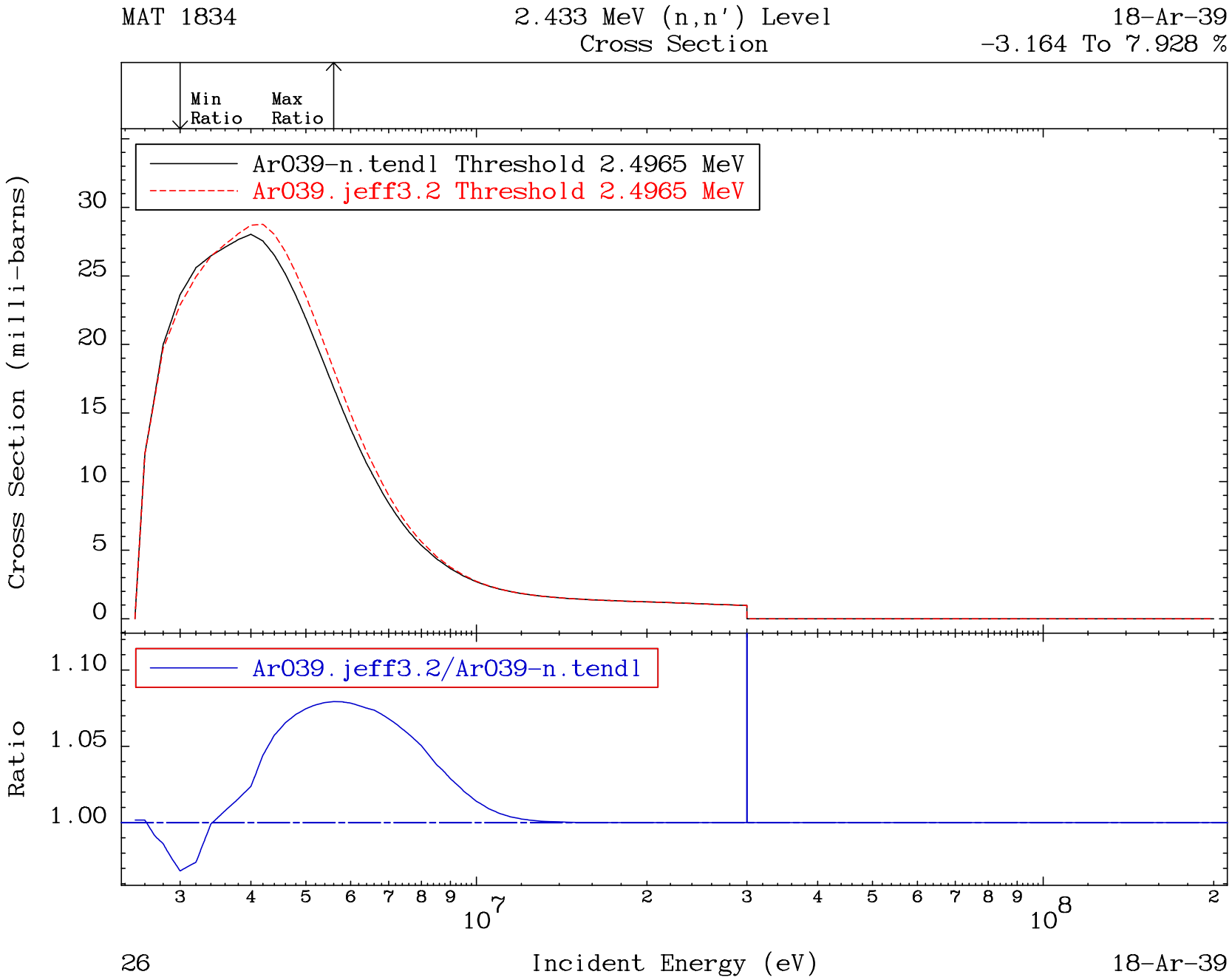

MAT 1834
1.267 MeV (n,n') Level
Cross Section
18-Ar-39
-1.460 To 9999. %
Min
Ratio
Max
Ratio
Ar039-n.tendl Threshold 1.3000 MeV
Ar039.jeff3.2 Threshold 1.3000 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
10^7
10^8
21
Incident Energy (eV)
18-Ar-39

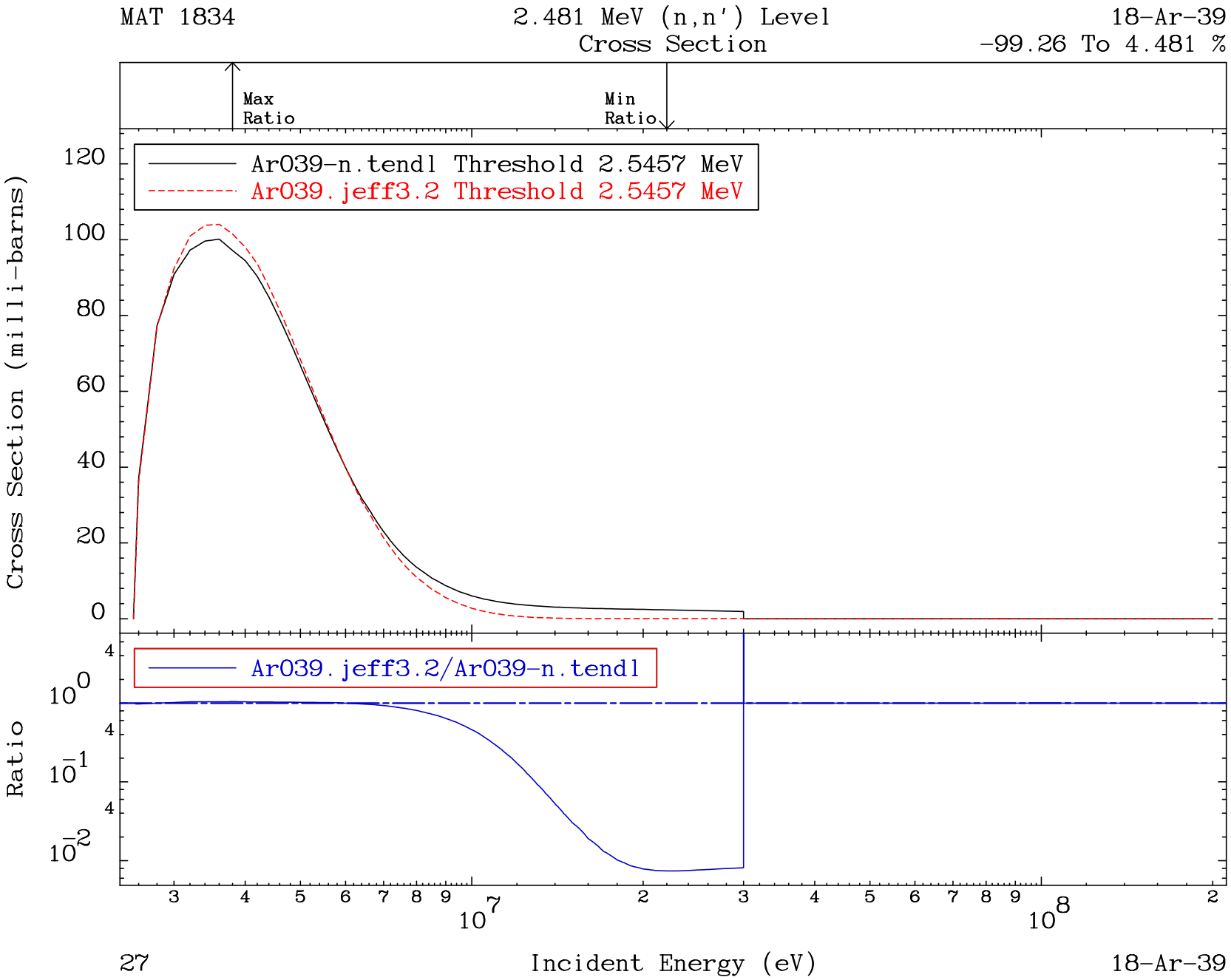

MAT 1834
1.518 MeV (n,n') Level
Cross Section
18-Ar-39
-2.243 To 9999. %
Min
Ratio
Max
Ratio
Ar039-n.tendl Threshold 1.5568 MeV
Ar039.jeff3.2 Threshold 1.5568 MeV
Cross Section (milli-barns)
80
60
40
20
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
10^4
10^2
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
18-Ar-39

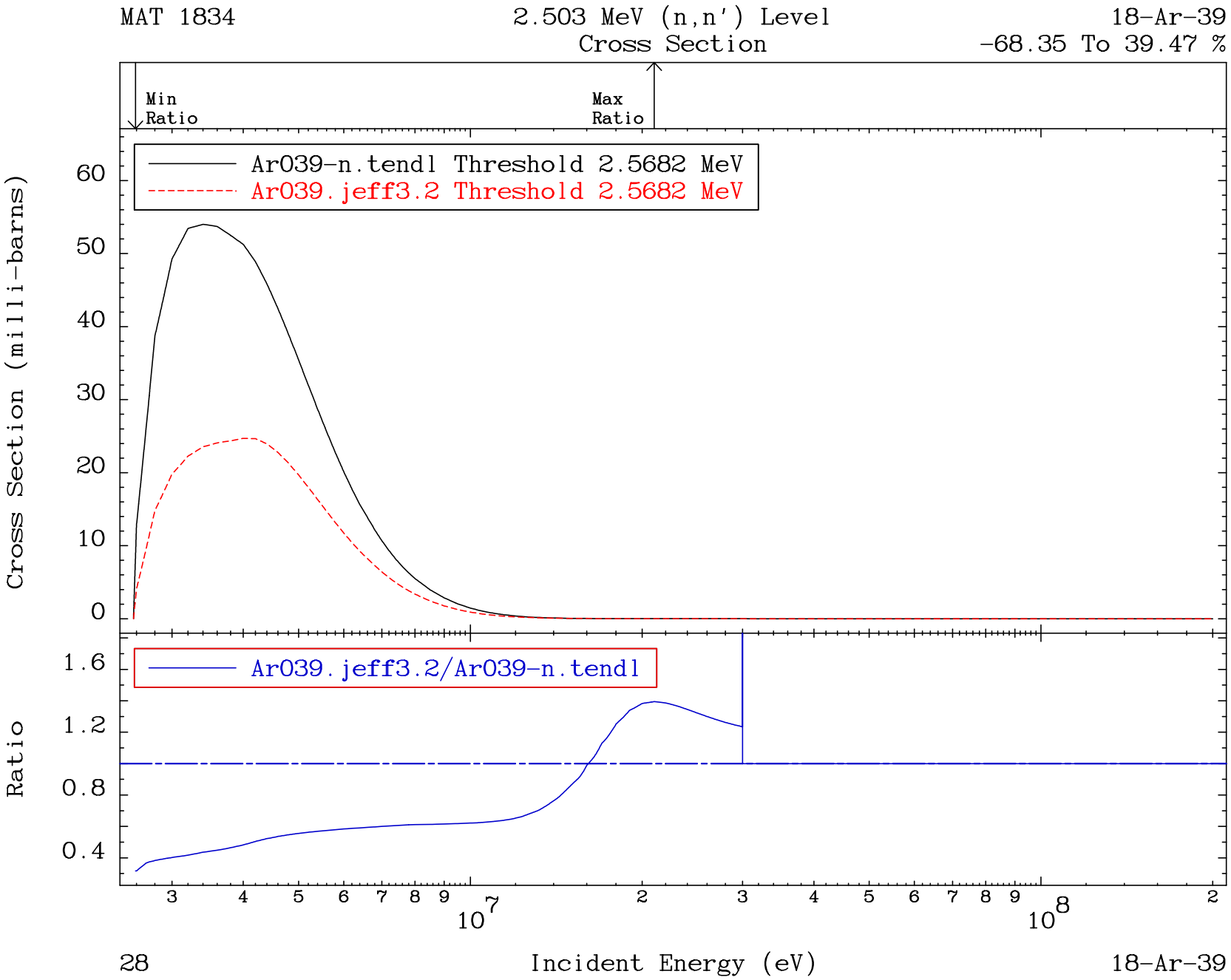

MAT 1834
2.093 MeV (n,n') Level
Cross Section
18-Ar-39
-0.298 To 9.317 %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 2.1469 MeV
Ar039.jeff3.2 Threshold 2.1469 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.10
1.05
1.00
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
23
Incident Energy (eV)
18-Ar-39

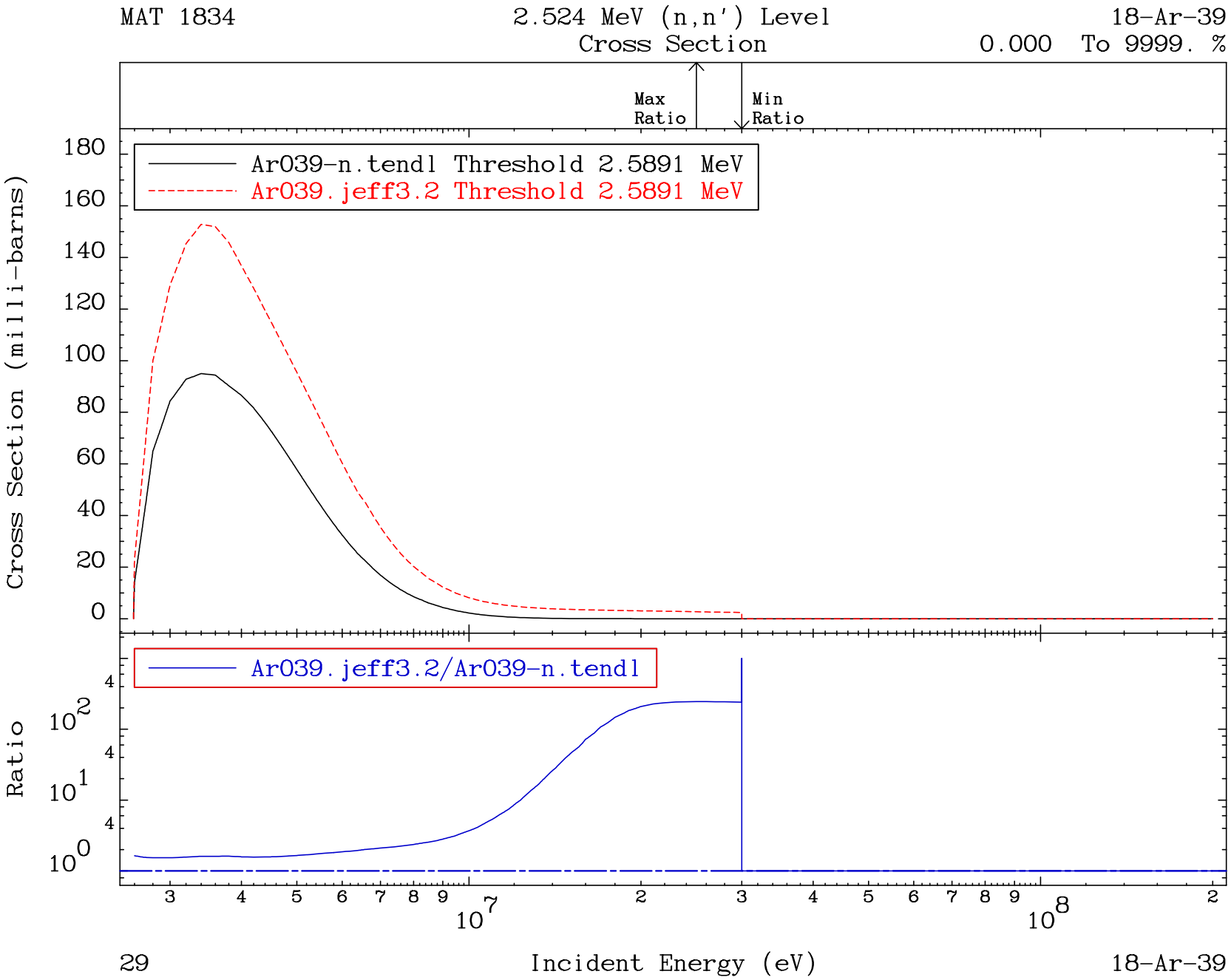

MAT 1834
2.342 MeV (n,n') Level
Cross Section
18-Ar-39
-24.67 To 0.000 %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 2.4028 MeV
Ar039.jeff3.2 Threshold 2.4028 MeV
Cross Section (milli-barns)
160
120
80
40
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.0
0.9
0.8
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
18-Ar-39

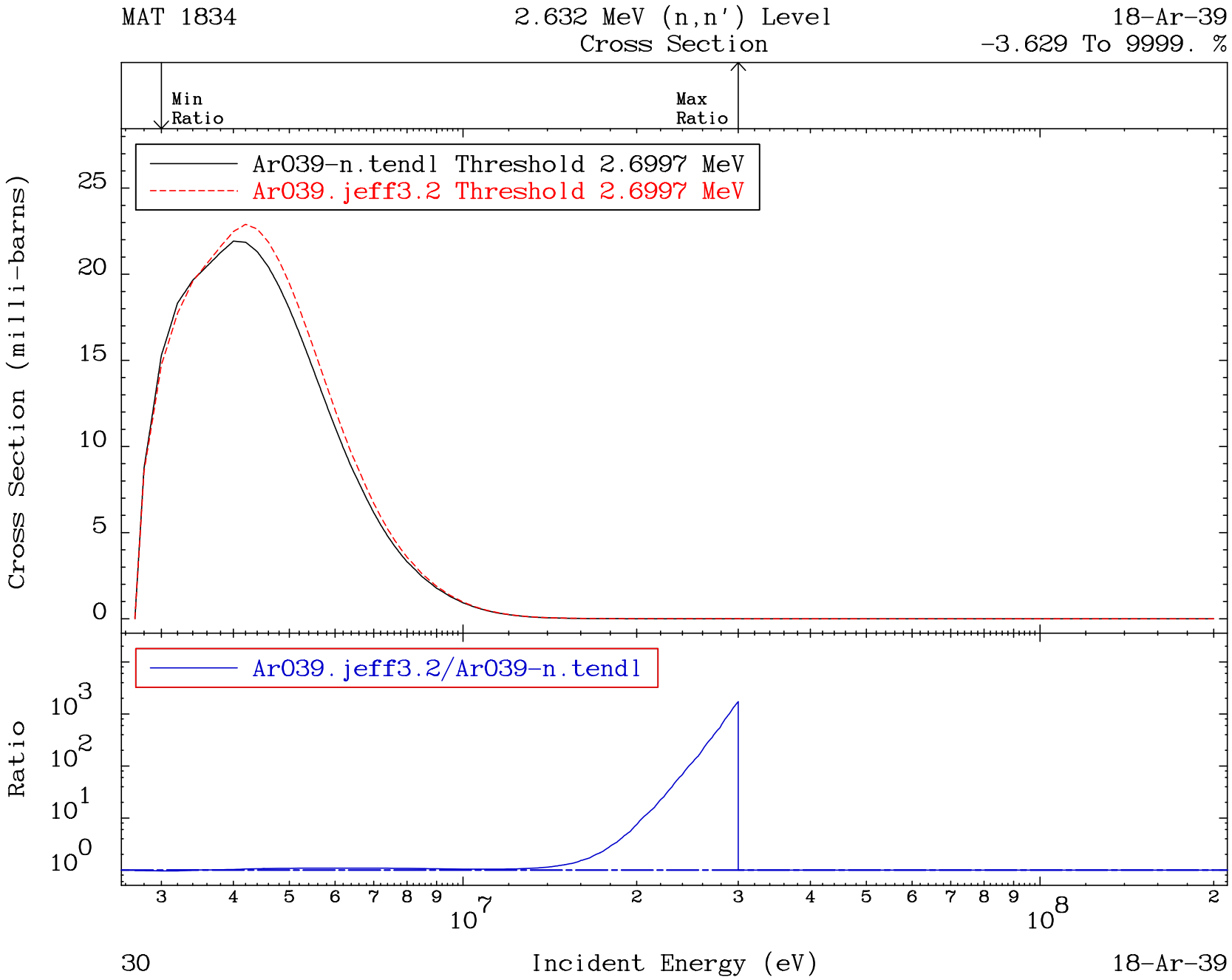

MAT 1834
2.358 MeV (n,n') Level
Cross Section
18-Ar-39
-4.752 To 9999. %
Min
Ratio
Max
Ratio
Ar039-n.tendl Threshold 2.4193 MeV
Ar039.jeff3.2 Threshold 2.4193 MeV
Cross Section (milli-barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
25
18-Ar-39

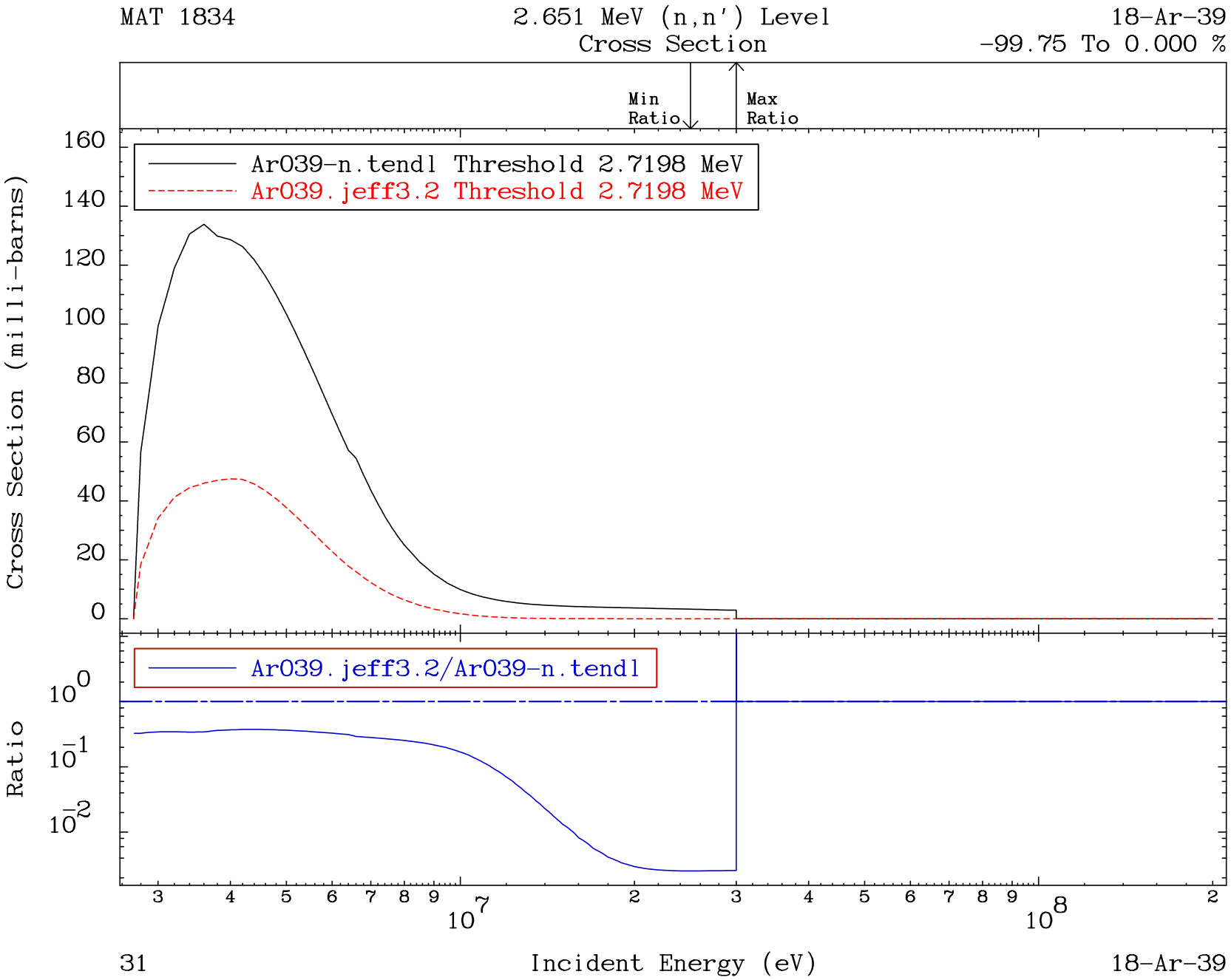

MAT 1834
2.433 MeV (n,n') Level
Cross Section
18-Ar-39
-3.164 To 7.928 %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 2.4965 MeV
Ar039.jeff3.2 Threshold 2.4965 MeV
Cross Section (milli-barns)
0
5
10
15
20
25
30
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.00
1.05
1.10
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
26
18-Ar-39

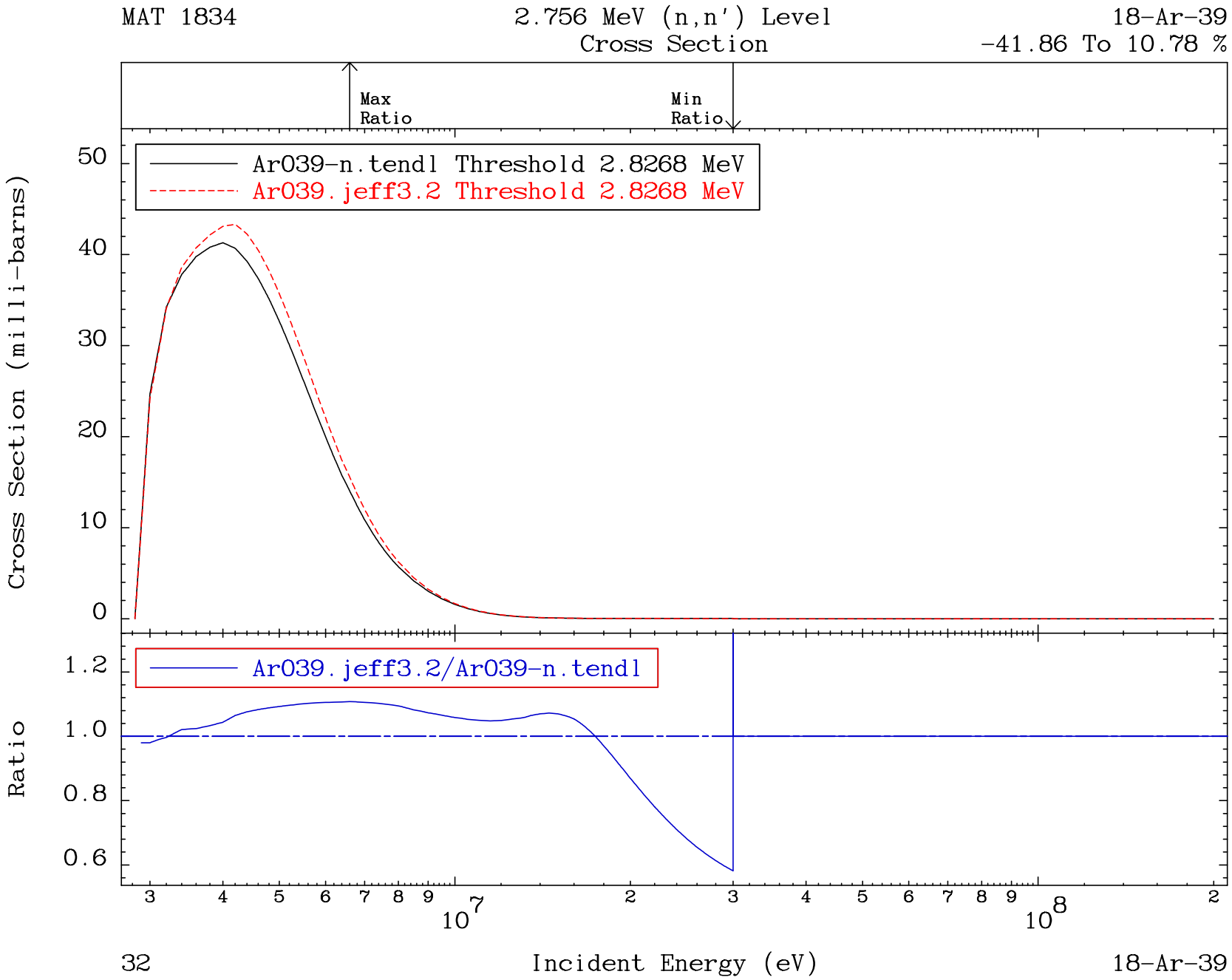

MAT 1834
2.481 MeV (n,n') Level
Cross Section
18-Ar-39
-99.26 To 4.481 %
Max
Ratio
Min
Ratio
Ar039-n.tendl Threshold 2.5457 MeV
Ar039.jeff3.2 Threshold 2.5457 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
10^0
10^-1
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
18-Ar-39

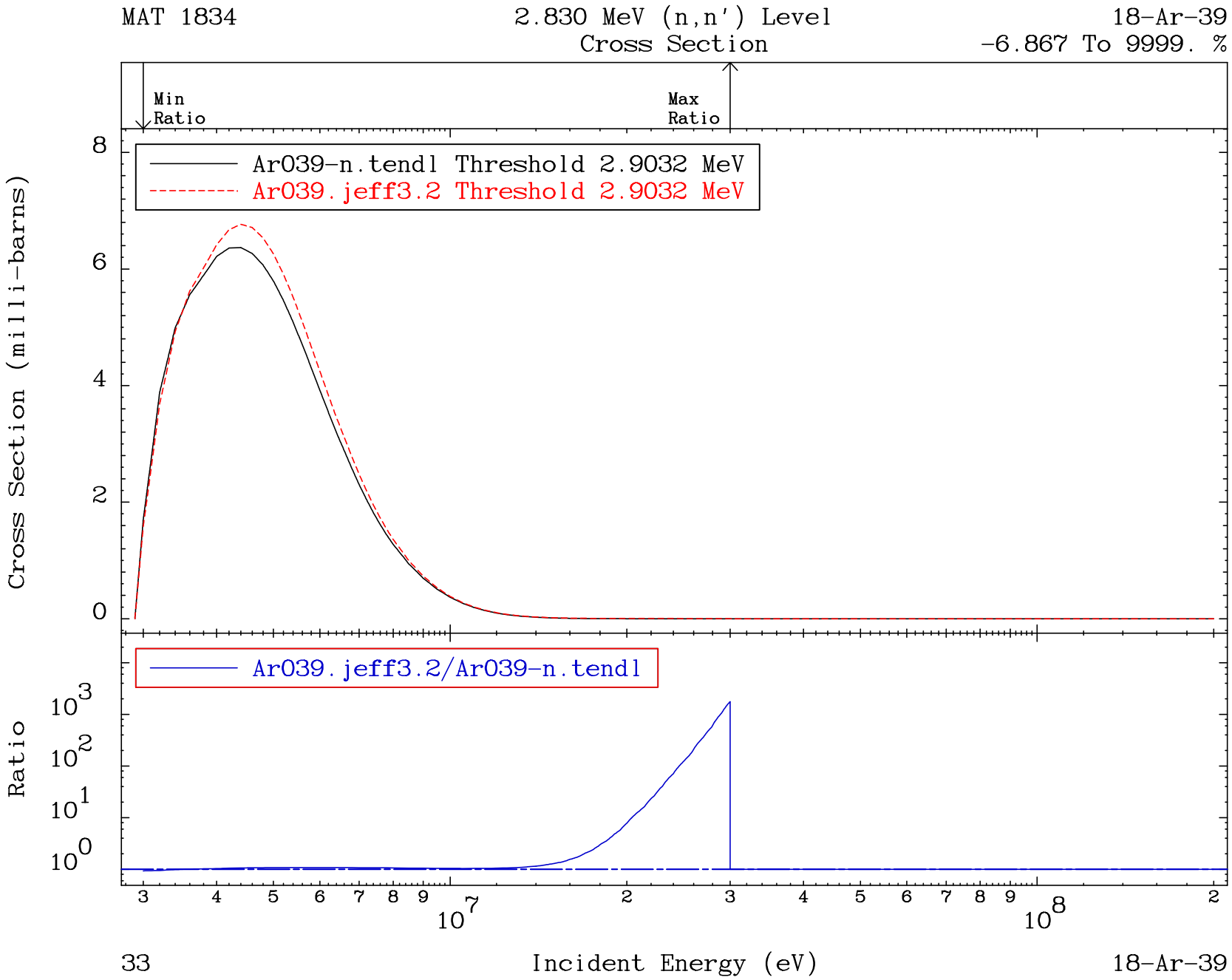

MAT 1834
2.503 MeV (n,n') Level
Cross Section
18-Ar-39
-68.35 To 39.47 %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 2.5682 MeV
Ar039.jeff3.2 Threshold 2.5682 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.6
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
18-Ar-39

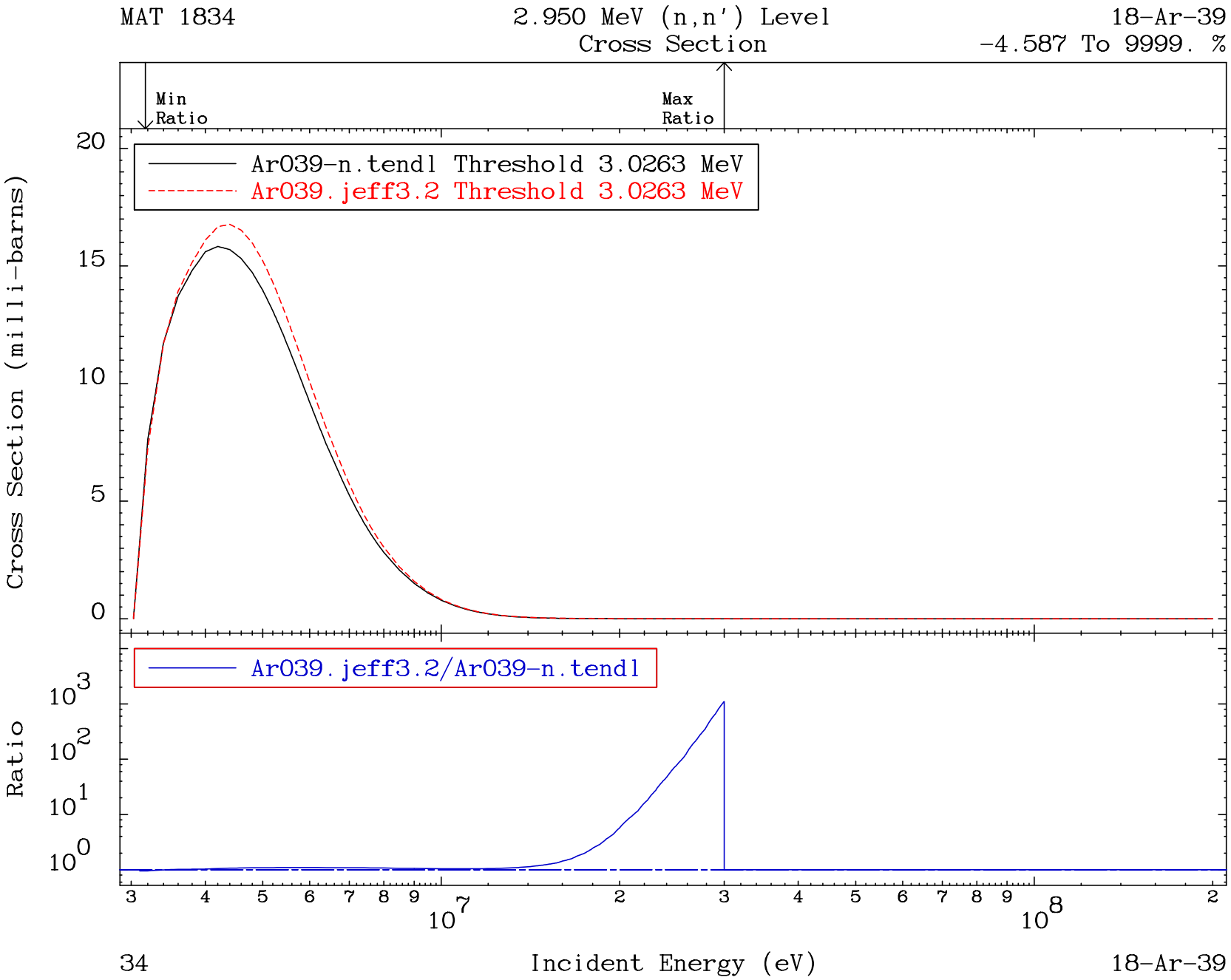

MAT 1834
2.524 MeV (n,n') Level
Cross Section
18-Ar-39
0.000 To 9999. %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 2.5891 MeV
Ar039.jeff3.2 Threshold 2.5891 MeV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
10^2
10^1
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
29
Incident Energy (eV)
18-Ar-39

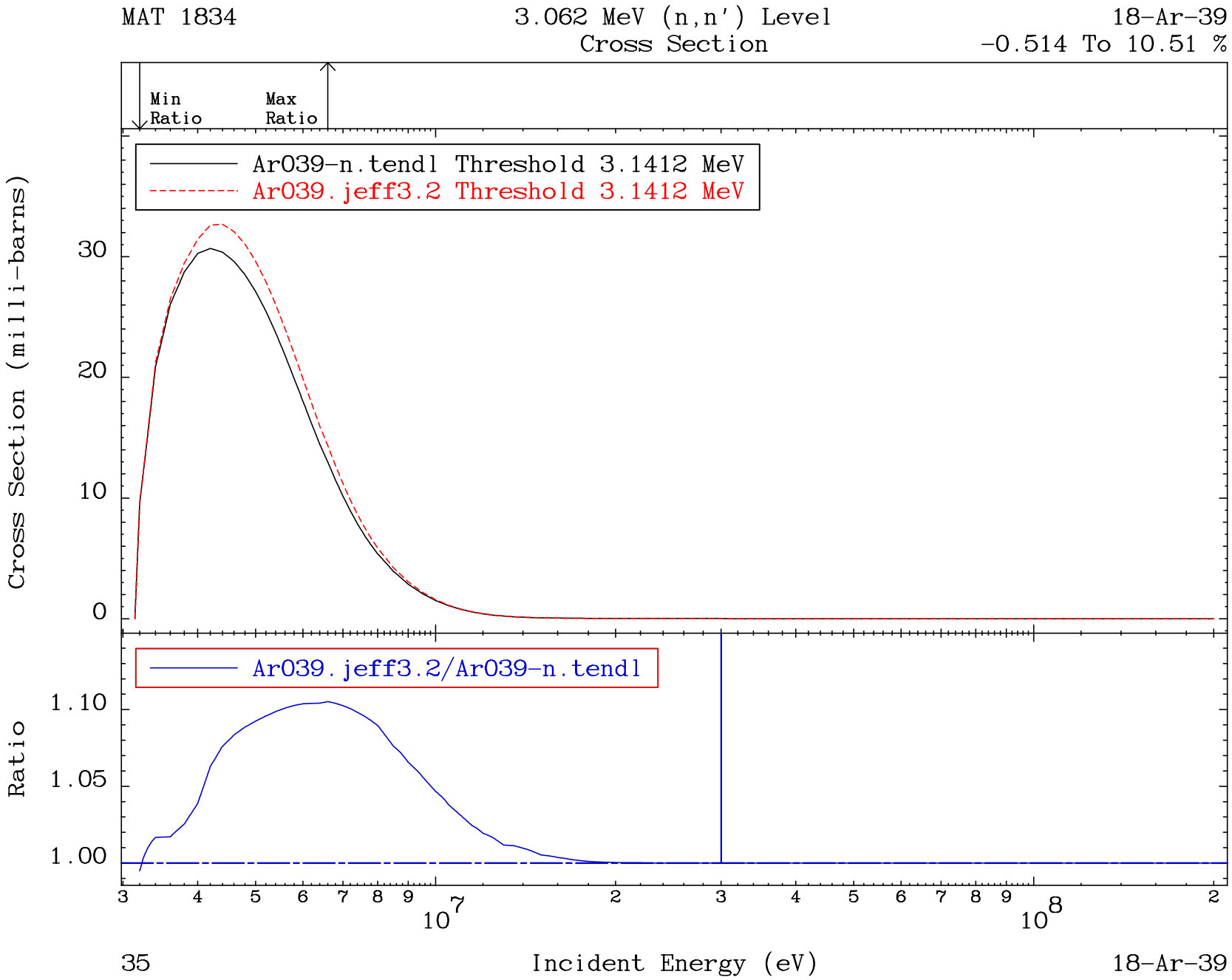

MAT 1834
2.632 MeV (n,n') Level
Cross Section
18-Ar-39
-3.629 To 9999. %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 2.6997 MeV
Ar039.jeff3.2 Threshold 2.6997 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
10^3
10^2
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
18-Ar-39

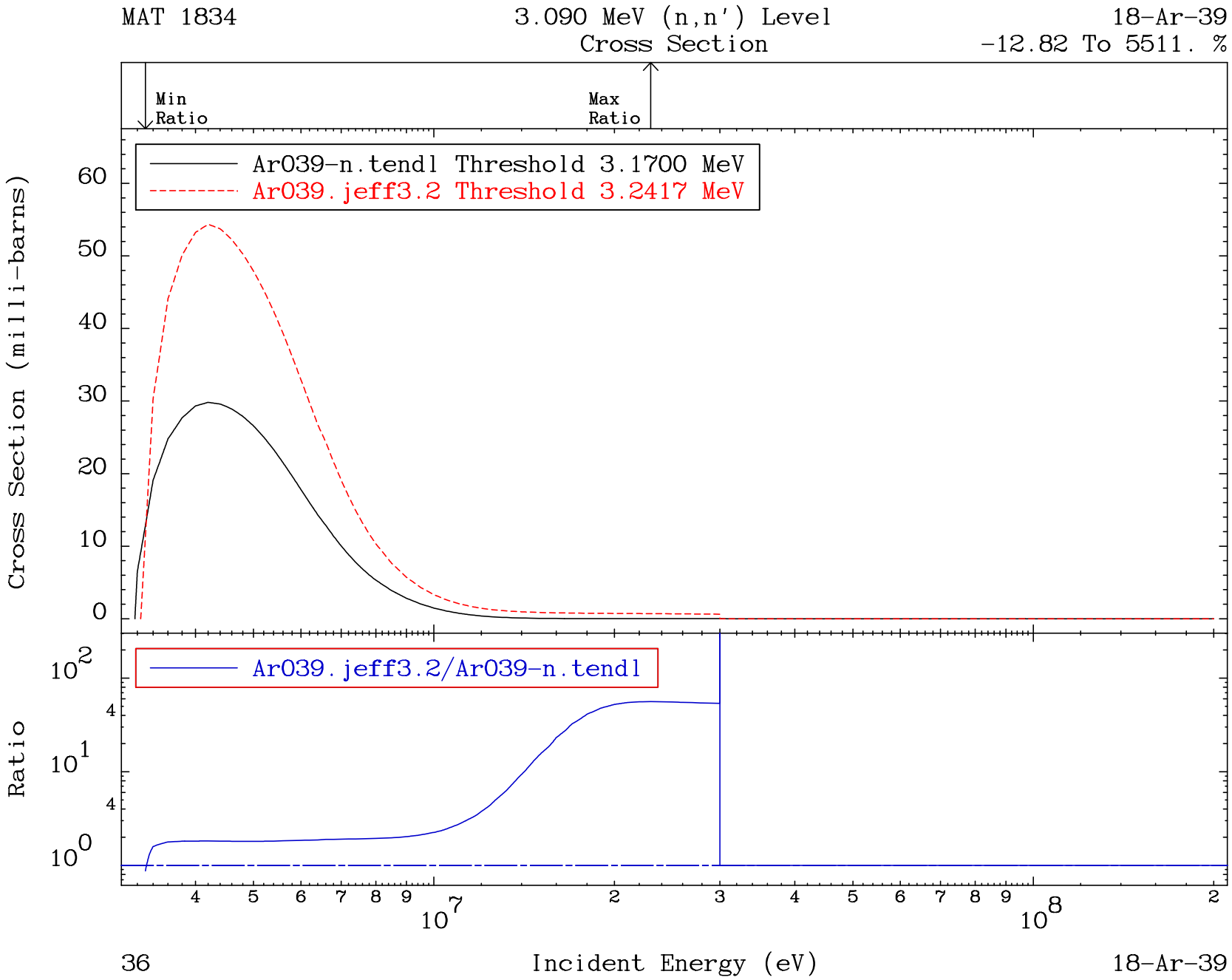

MAT 1834
2.651 MeV (n,n') Level
Cross Section
18-Ar-39
-99.75 To 0.000 %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 2.7198 MeV
Ar039.jeff3.2 Threshold 2.7198 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
10^0
10^-1
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
18-Ar-39

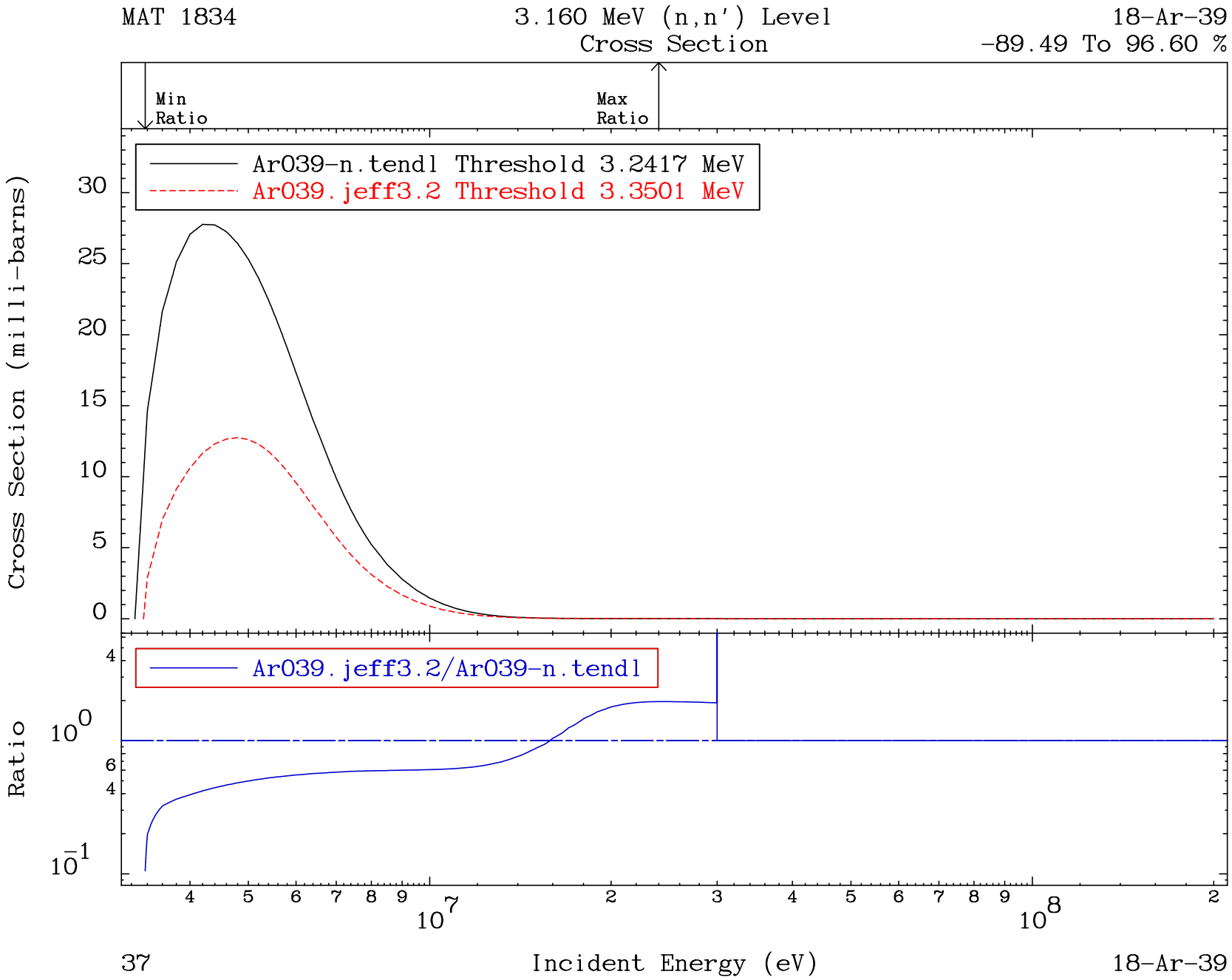

MAT 1834
2.756 MeV (n,n') Level
Cross Section
18-Ar-39
-41.86 To 10.78 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 2.8268 MeV
Ar039.jeff3.2 Threshold 2.8268 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.2
1.0
0.8
0.6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
18-Ar-39

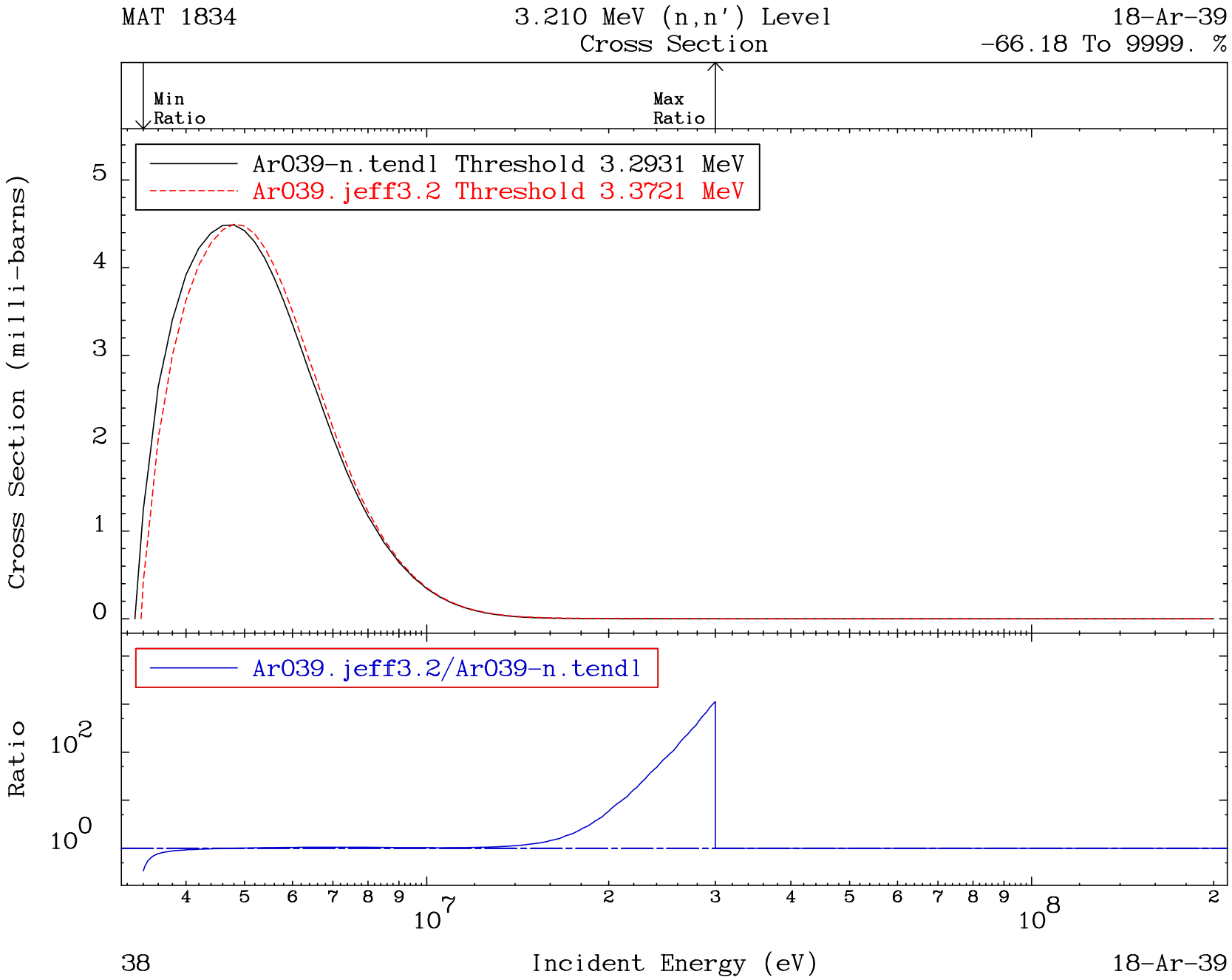

MAT 1834
2.830 MeV (n,n') Level
Cross Section
18-Ar-39
-6.867 To 9999. %
Min
Ratio
Max
Ratio
Ar039-n.tendl Threshold 2.9032 MeV
Ar039.jeff3.2 Threshold 2.9032 MeV
Cross Section (milli-barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
33
18-Ar-39

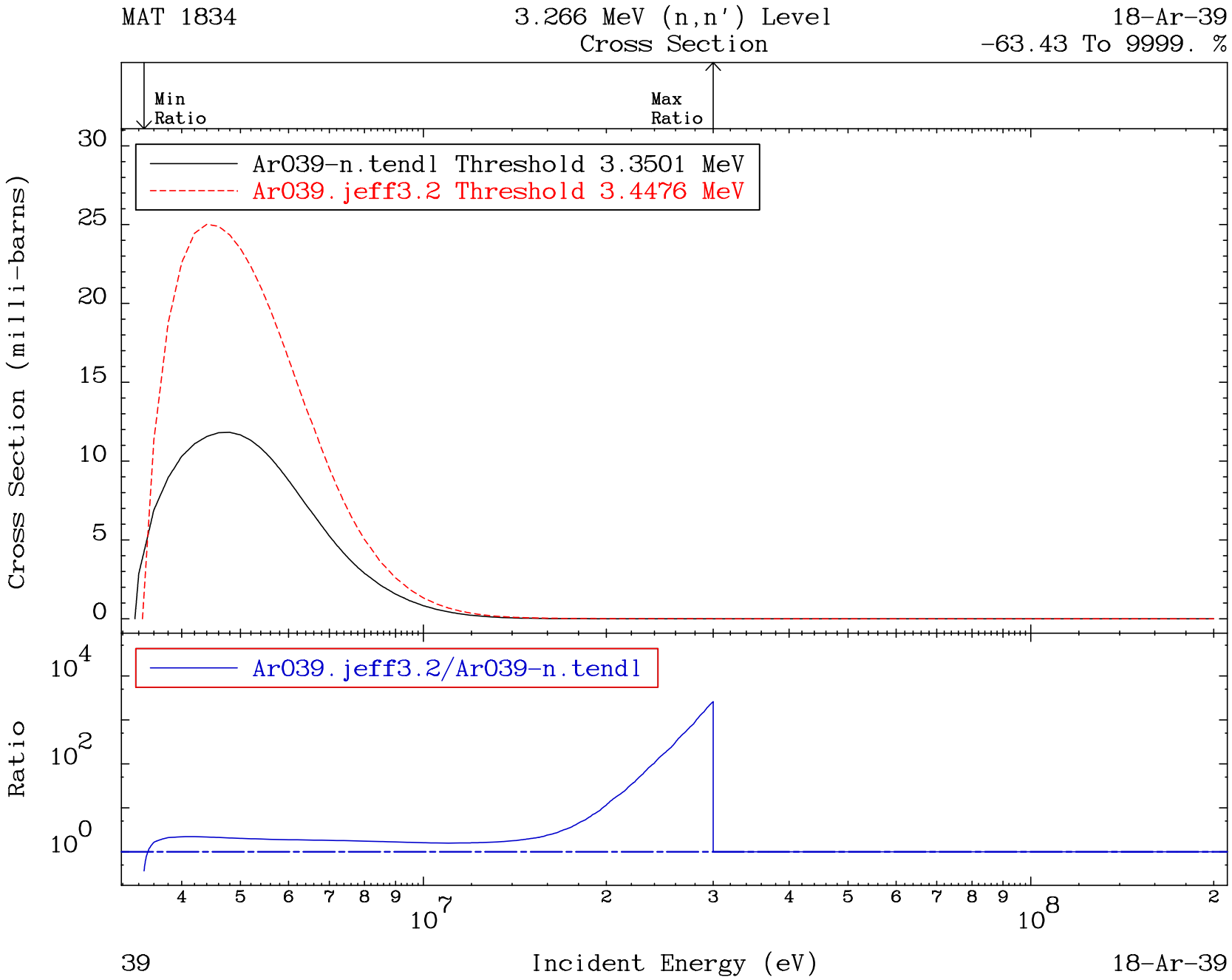

MAT 1834
2.950 MeV (n,n') Level
Cross Section
18-Ar-39
-4.587 To 9999. %
Min
Ratio
Max
Ratio
Ar039-n.tendl Threshold 3.0263 MeV
Ar039.jeff3.2 Threshold 3.0263 MeV
Cross Section (milli-barns)
20
15
10
5
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
10^3
10^2
10^1
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
34
Incident Energy (eV)
18-Ar-39

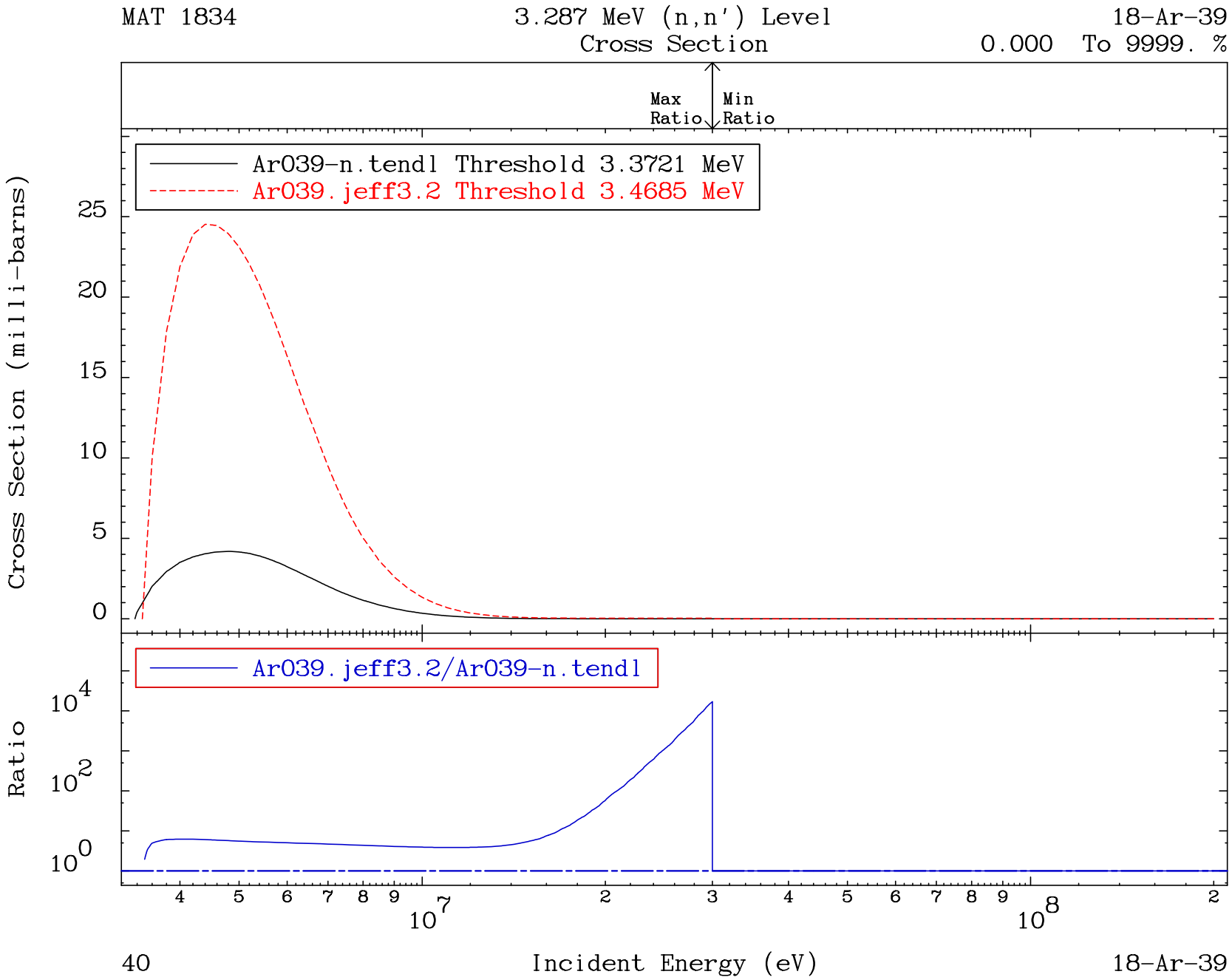

MAT 1834
3.062 MeV (n,n') Level
Cross Section
18-Ar-39
-0.514 To 10.51 %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 3.1412 MeV
Ar039.jeff3.2 Threshold 3.1412 MeV
Cross Section (milli-barns)
30
20
10
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.10
1.05
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
18-Ar-39

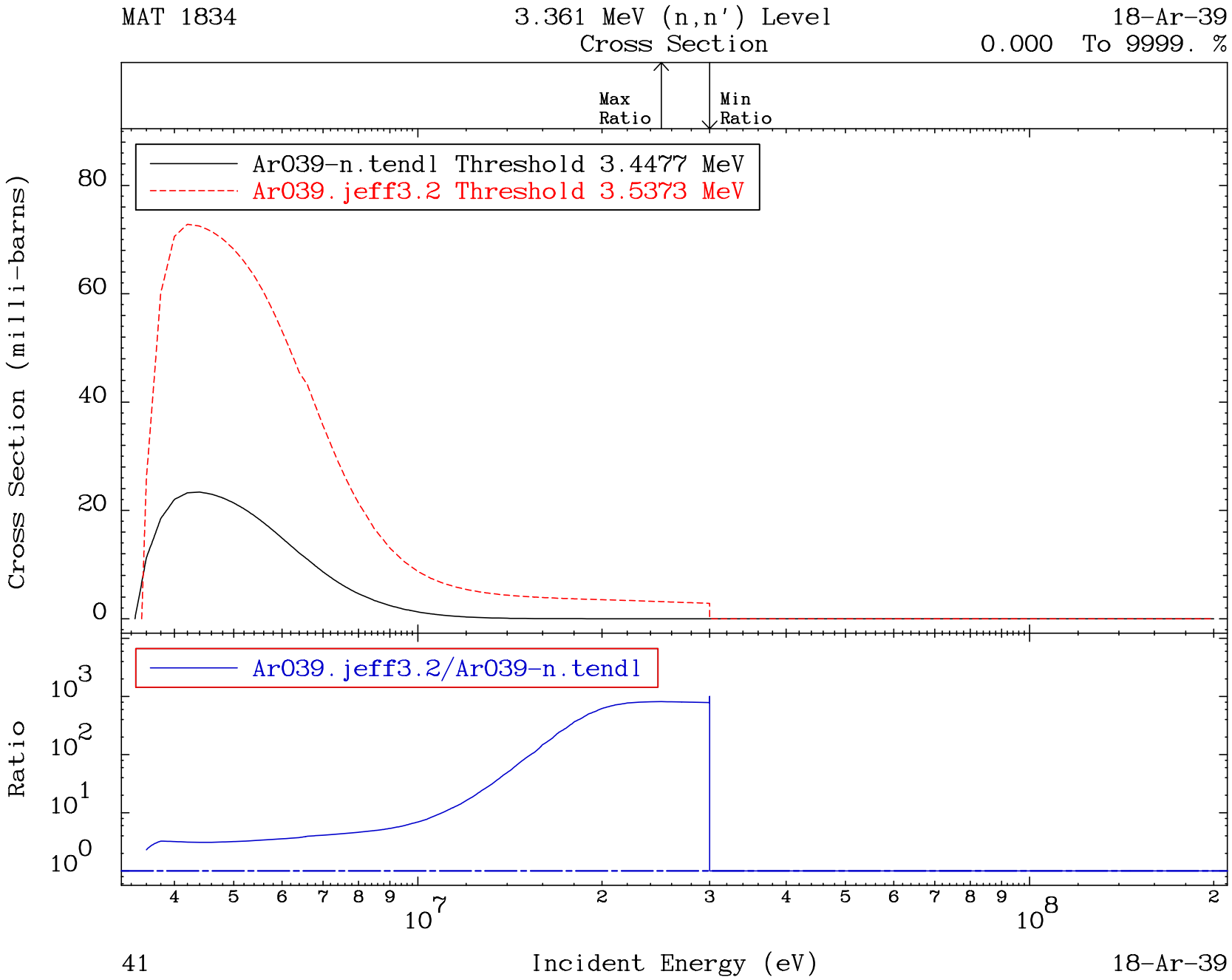

MAT 1834
3.090 MeV (n,n') Level
Cross Section
18-Ar-39
-12.82 To 5511. %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 3.1700 MeV
Ar039.jeff3.2 Threshold 3.2417 MeV
Cross Section (milli-barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
36
18-Ar-39

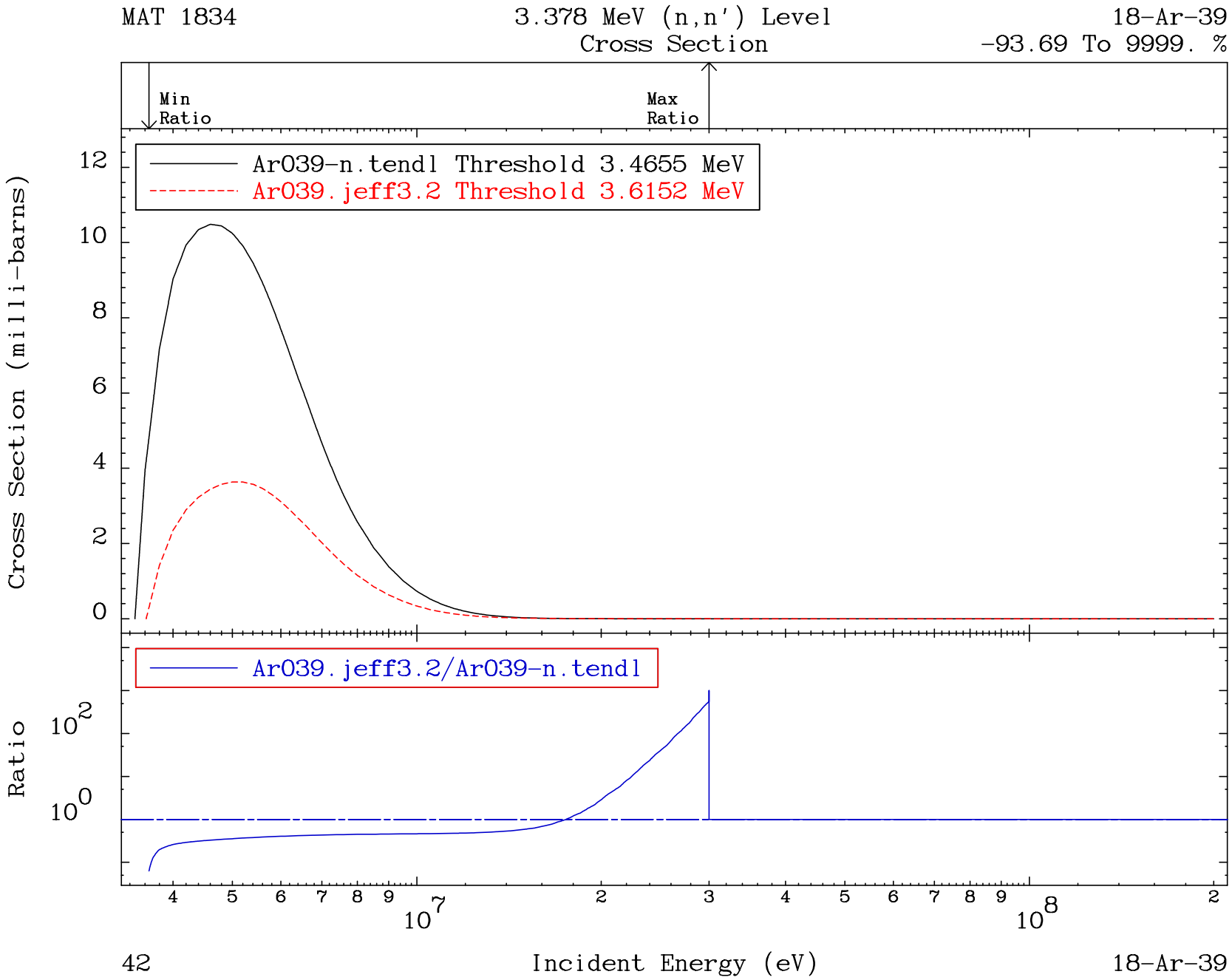

MAT 1834
3.160 MeV (n,n') Level
Cross Section
18-Ar-39
-89.49 To 96.60 %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 3.2417 MeV
Ar039.jeff3.2 Threshold 3.3501 MeV
Cross Section (milli-barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
37
18-Ar-39

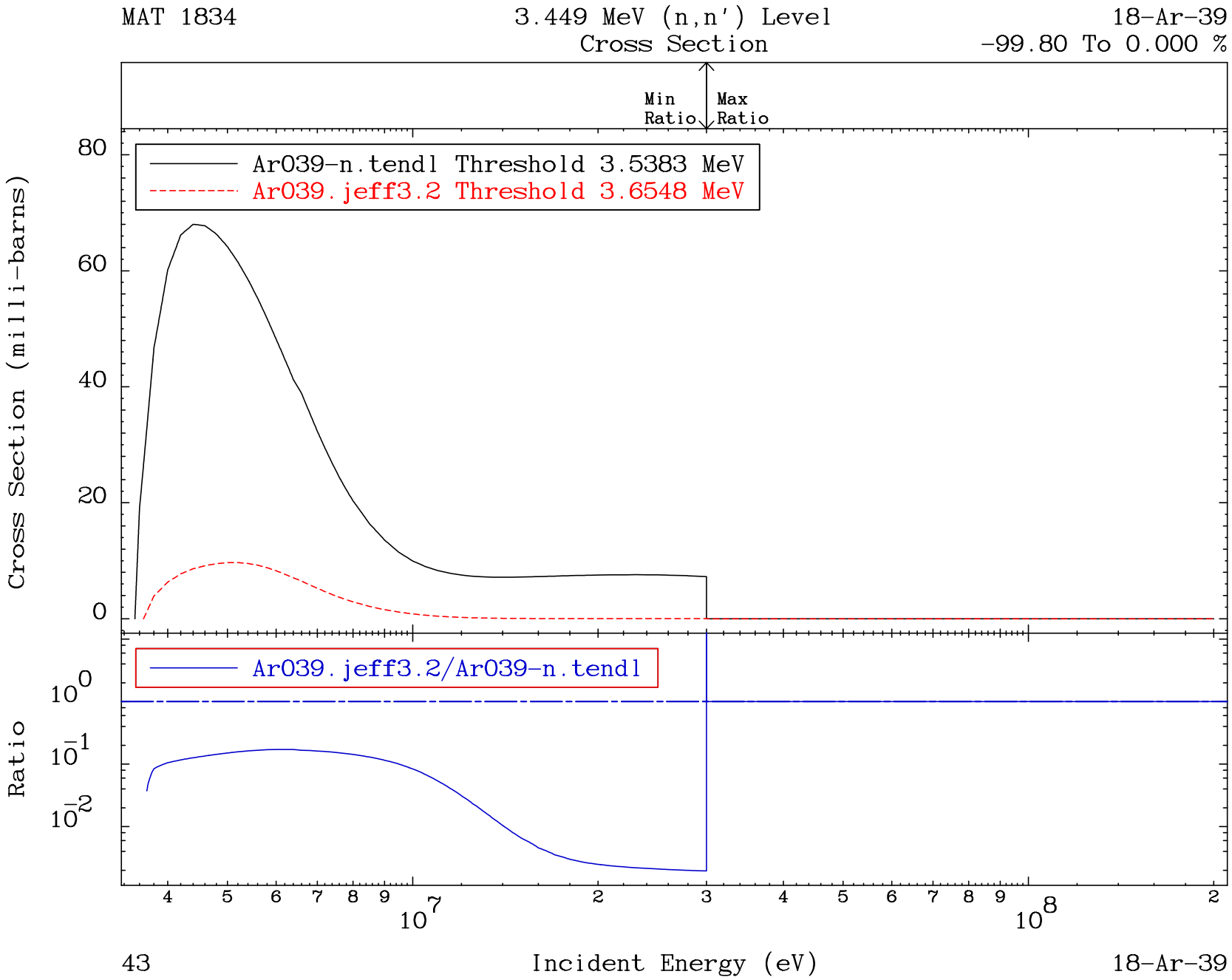

MAT 1834
3.210 MeV (n,n') Level
Cross Section
18-Ar-39
-66.18 To 9999. %
Min
Ratio
Max
Ratio
Ar039-n.tendl Threshold 3.2931 MeV
Ar039.jeff3.2 Threshold 3.3721 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
Ar039.jeff3.2/Ar039-n.tendl
Ratio
10^2
10^0
4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
38
Incident Energy (eV)
18-Ar-39

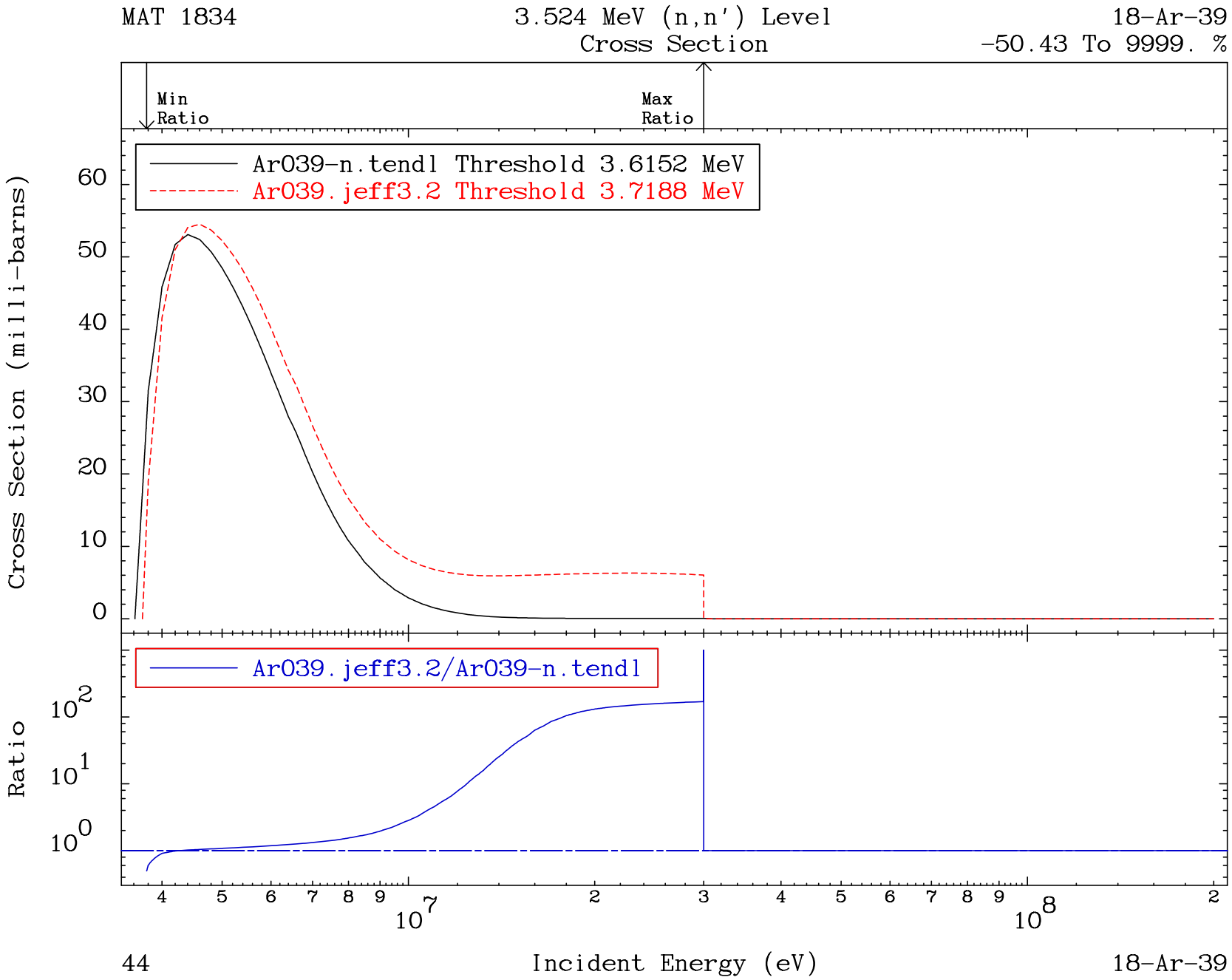

MAT 1834
3.266 MeV (n,n') Level
Cross Section
18-Ar-39
-63.43 To 9999. %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 3.3501 MeV
Ar039.jeff3.2 Threshold 3.4476 MeV
Cross Section (milli-barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
39
18-Ar-39

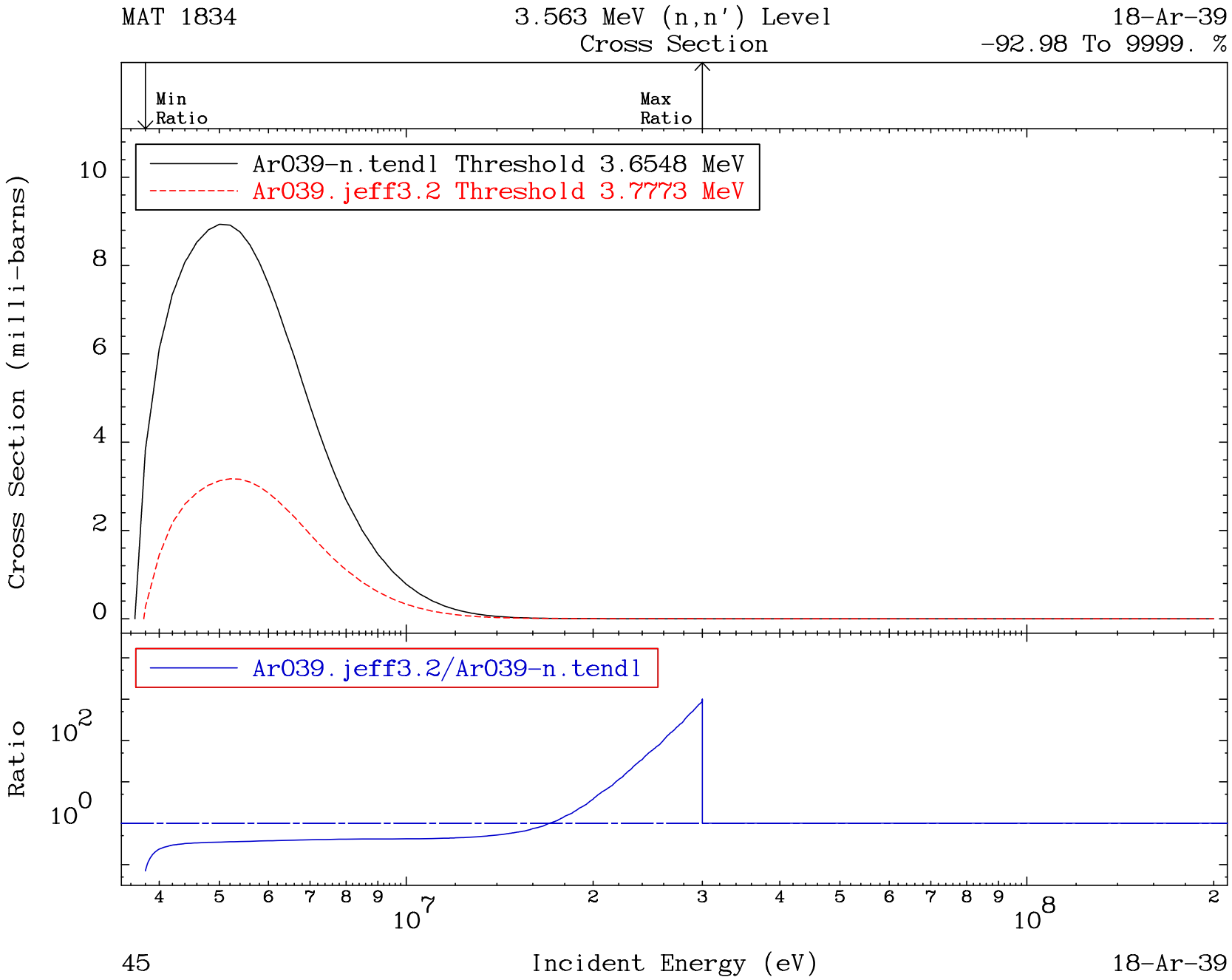

MAT 1834
3.287 MeV (n,n') Level
Cross Section
18-Ar-39
0.000 To 9999. %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 3.3721 MeV
Ar039.jeff3.2 Threshold 3.4685 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
10^4
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
40
Incident Energy (eV)
18-Ar-39

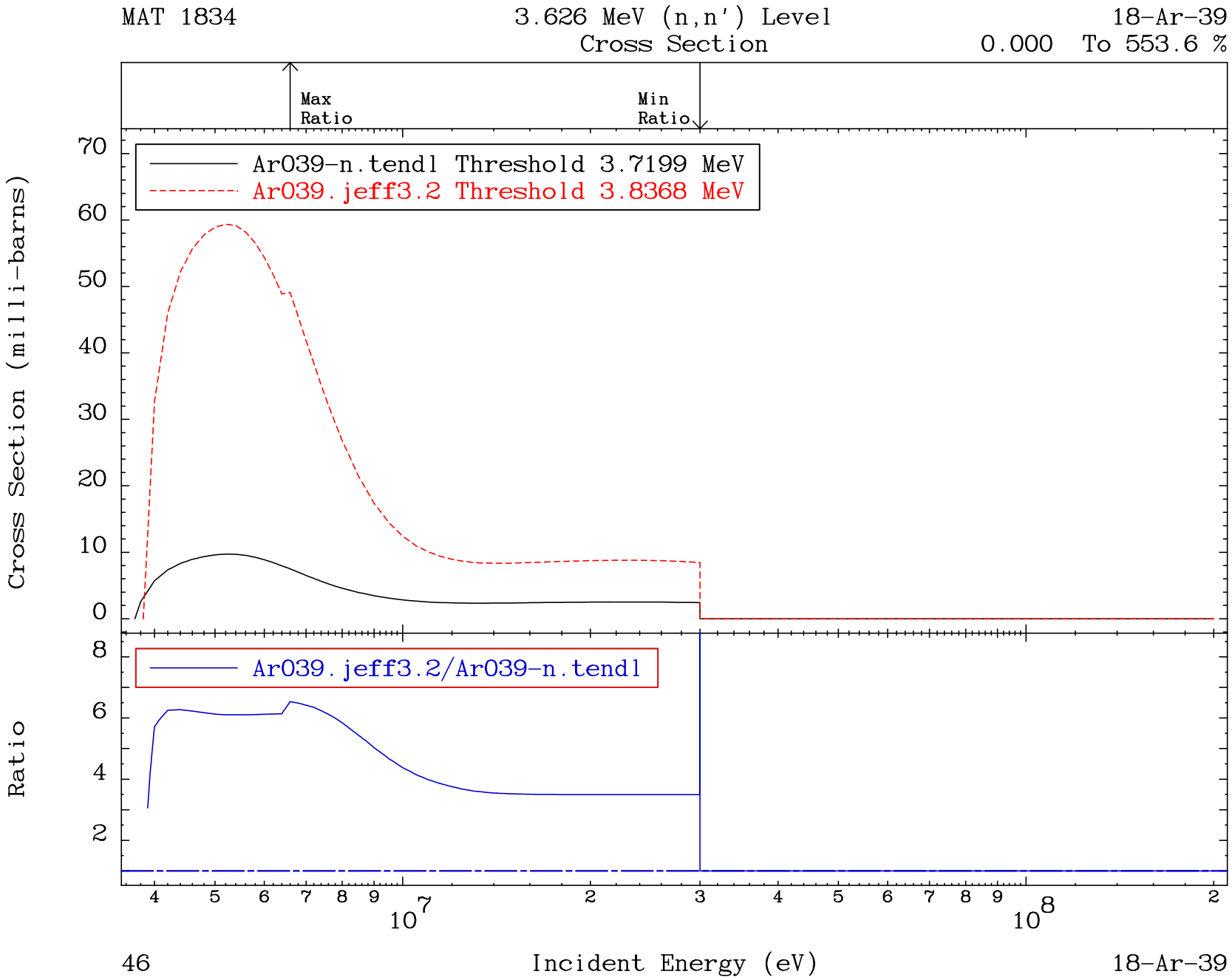

MAT 1834
3.361 MeV (n,n') Level
Cross Section
18-Ar-39
0.000 To 9999. %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 3.4477 MeV
Ar039.jeff3.2 Threshold 3.5373 MeV
Cross Section (milli-barns)
80
60
40
20
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
10^3
10^2
10^1
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
18-Ar-39

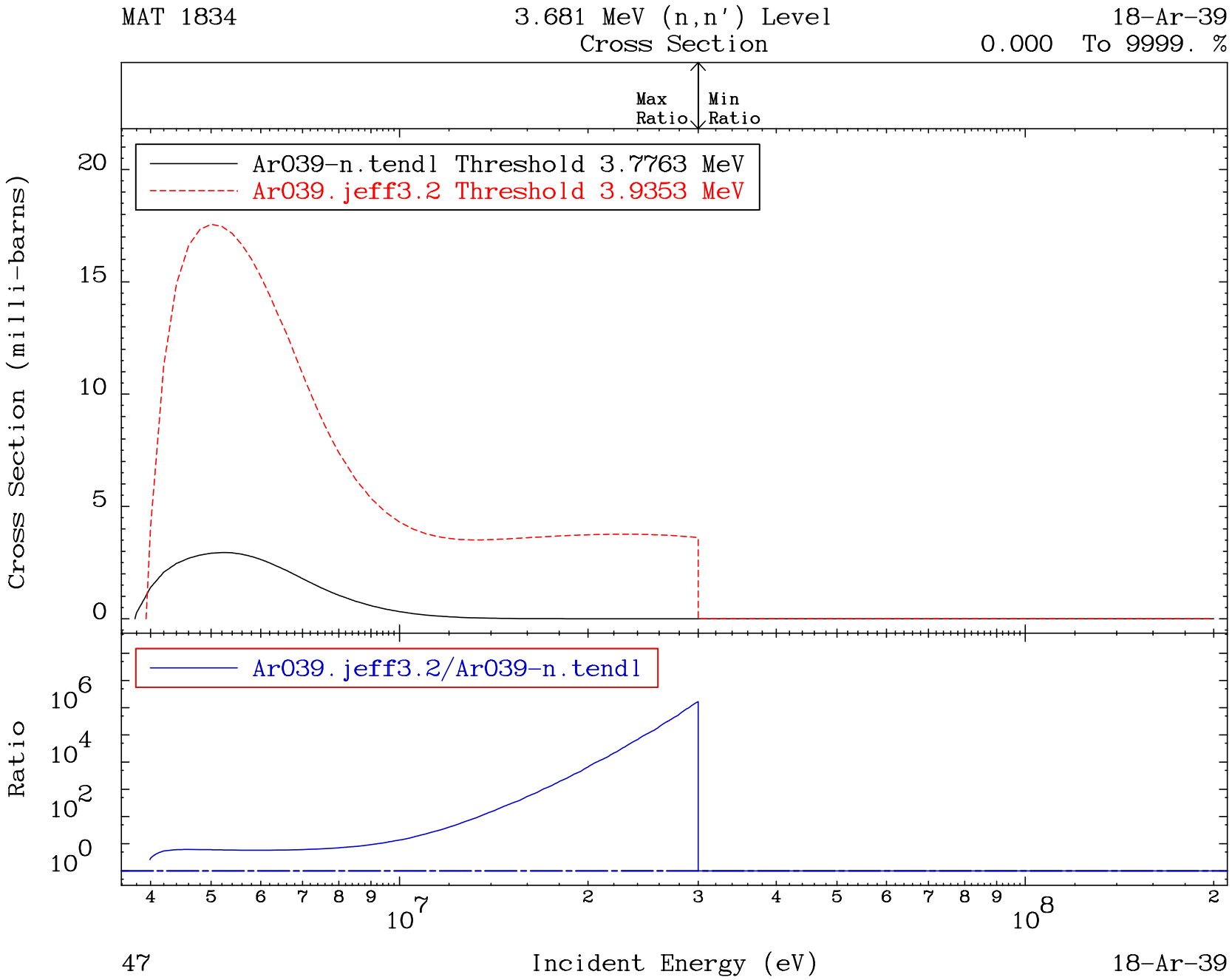

MAT 1834
3.378 MeV (n,n') Level
Cross Section
18-Ar-39
-93.69 To 9999. %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 3.4655 MeV
Ar039.jeff3.2 Threshold 3.6152 MeV
Cross Section (milli-barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
42
18-Ar-39

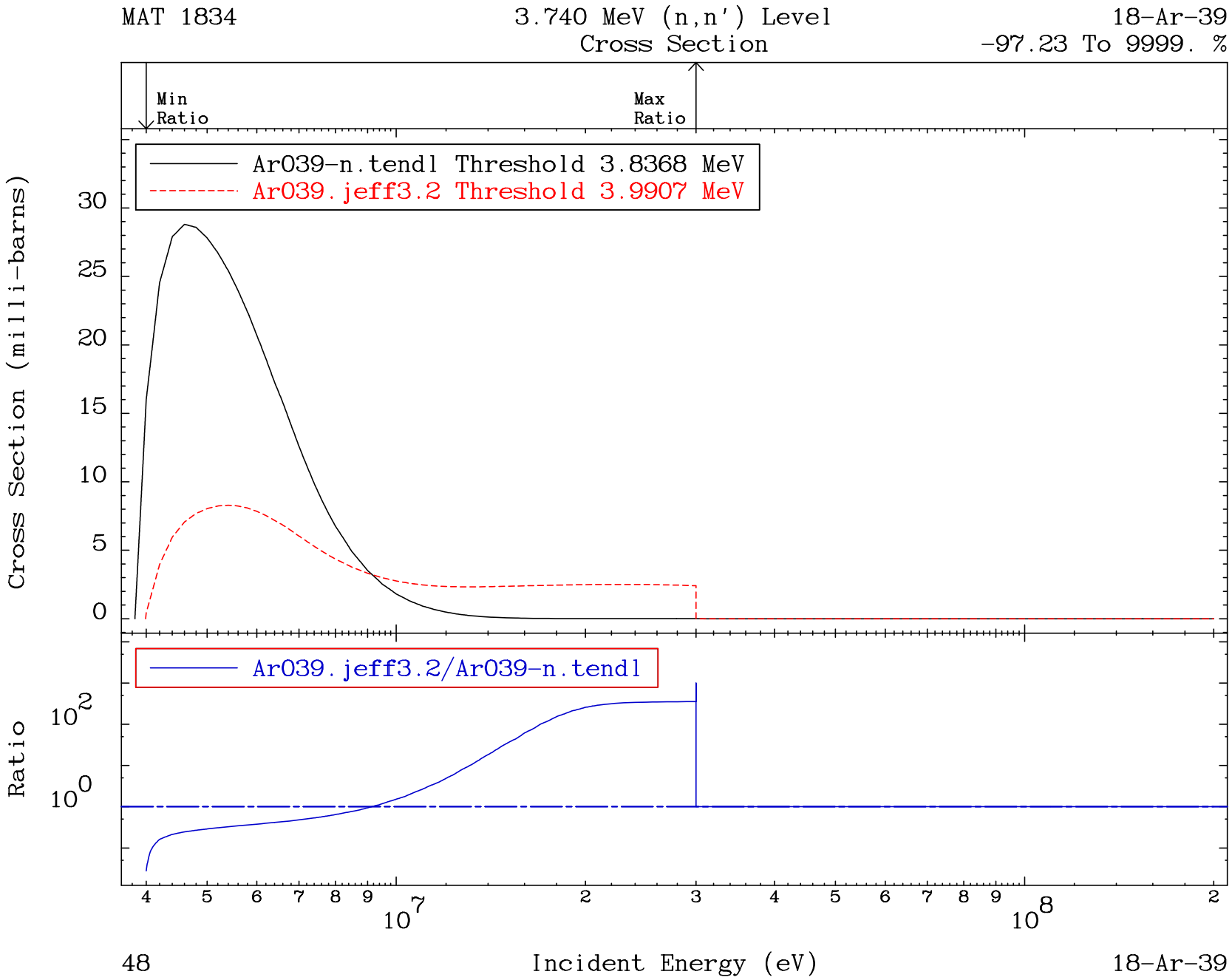

MAT 1834
3.449 MeV (n,n') Level
Cross Section
18-Ar-39
-99.80 To 0.000 %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 3.5383 MeV
Ar039.jeff3.2 Threshold 3.6548 MeV
Cross Section (milli-barns)
80
60
40
20
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
10^0
10^-1
10^-2
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
43
Incident Energy (eV)
18-Ar-39

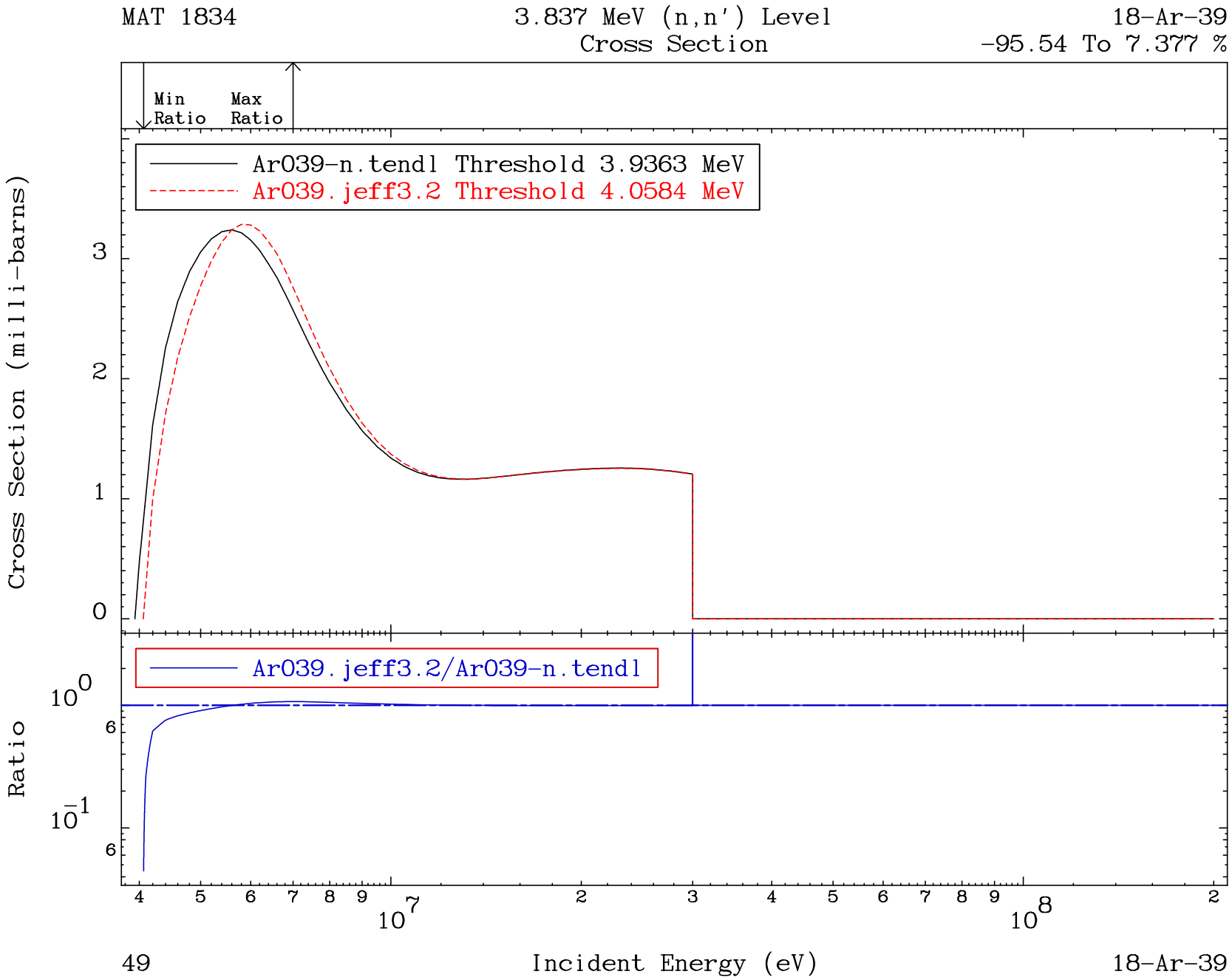

MAT 1834
3.524 MeV (n,n') Level
Cross Section
18-Ar-39
-50.43 To 9999. %
Min
Ratio
Max
Ratio
Ar039-n.tendl Threshold 3.6152 MeV
Ar039.jeff3.2 Threshold 3.7188 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
10^2
10^1
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
18-Ar-39

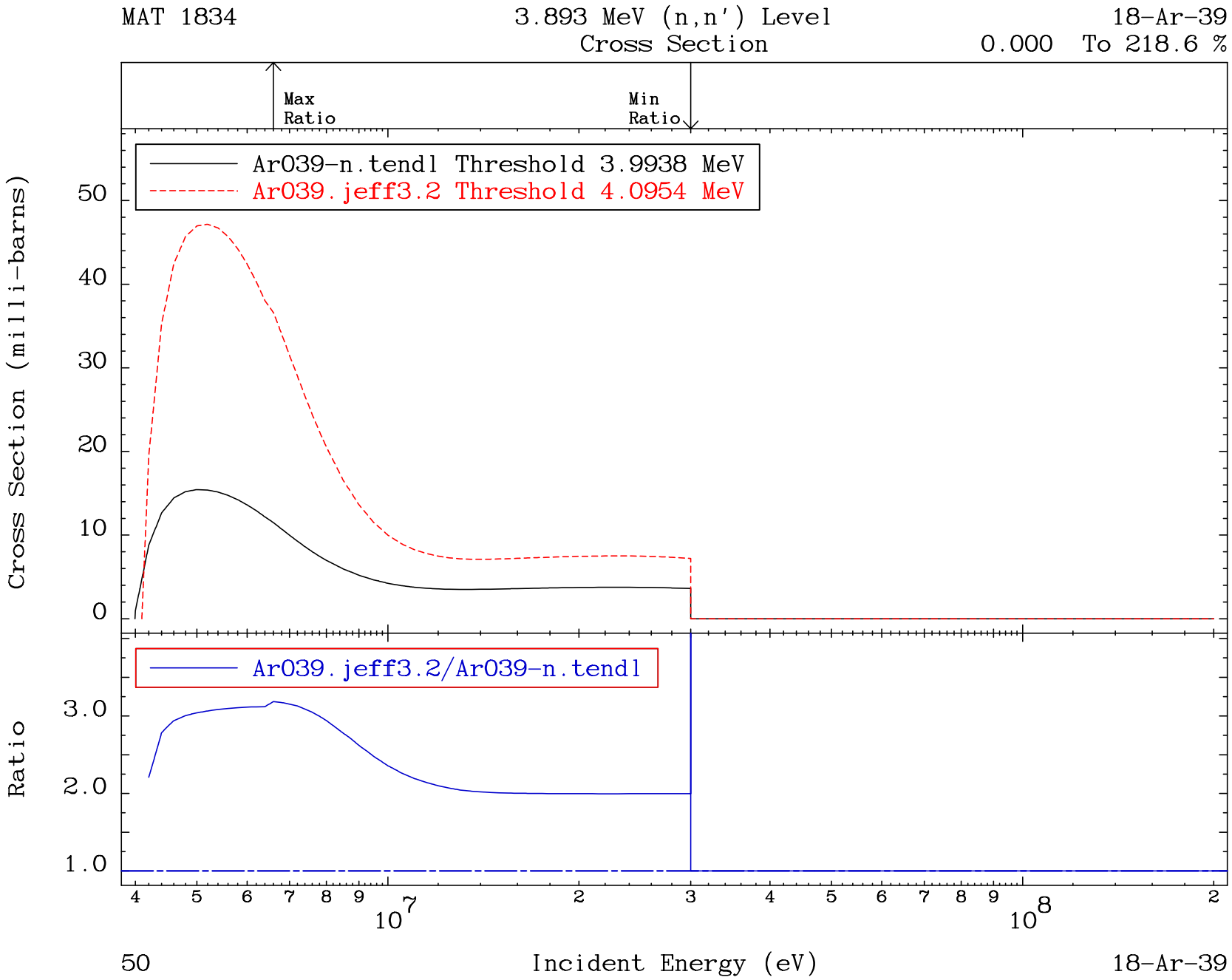

MAT 1834
3.563 MeV (n,n') Level
Cross Section
18-Ar-39
-92.98 To 9999. %
Min
Ratio
Max
Ratio
Ar039-n.tendl Threshold 3.6548 MeV
Ar039.jeff3.2 Threshold 3.7773 MeV
Cross Section (milli-barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
45
18-Ar-39

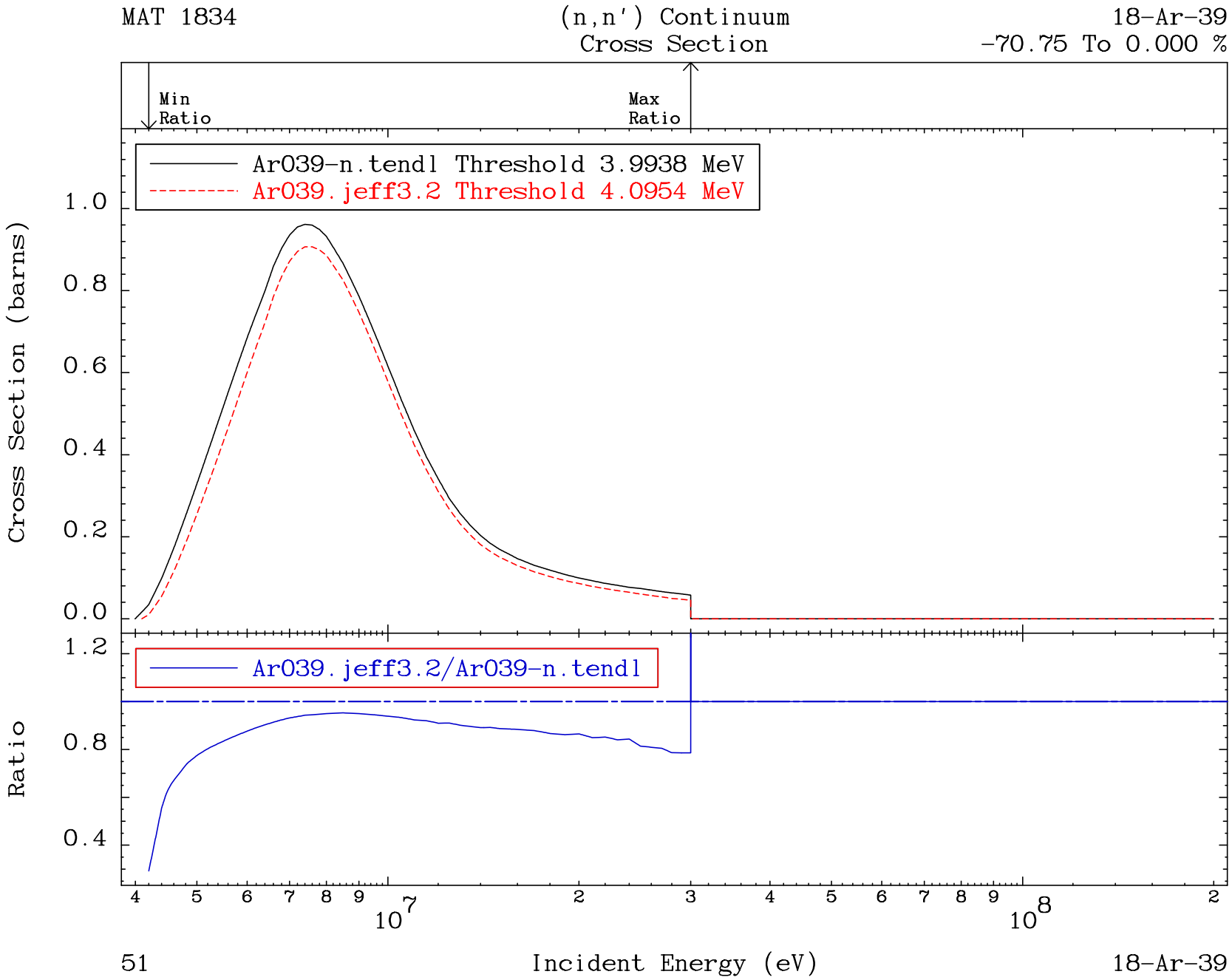

MAT 1834
3.626 MeV (n,n') Level
Cross Section
18-Ar-39
0.000 To 553.6 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 3.7199 MeV
Ar039.jeff3.2 Threshold 3.8368 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
8
6
4
2
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
46
Incident Energy (eV)
18-Ar-39

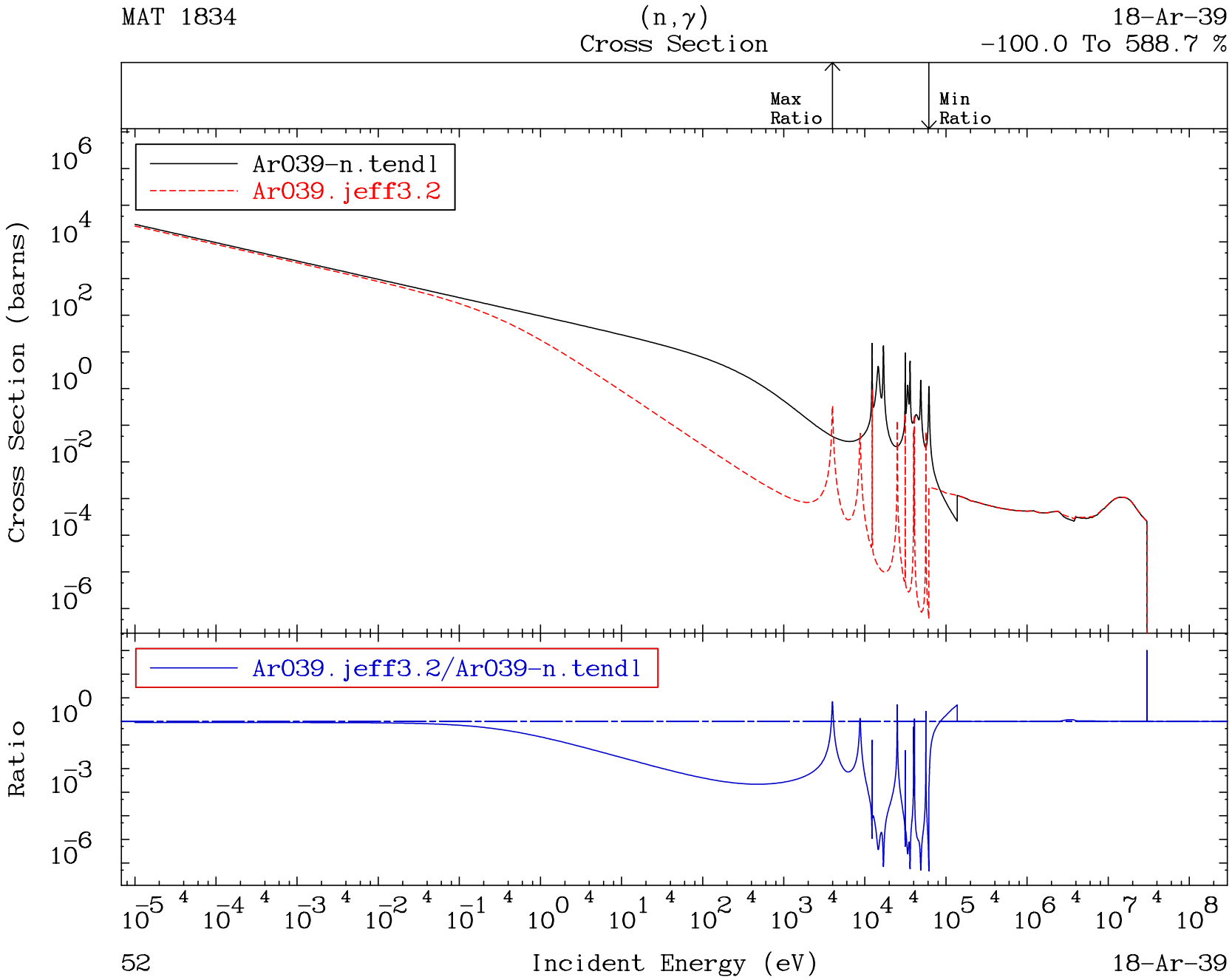

MAT 1834
3.681 MeV (n,n') Level
Cross Section
18-Ar-39
0.000 To 9999. %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 3.7763 MeV
Ar039.jeff3.2 Threshold 3.9353 MeV
Cross Section (milli-barns)
20
15
10
5
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
10^6
10^4
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
47
Incident Energy (eV)
18-Ar-39

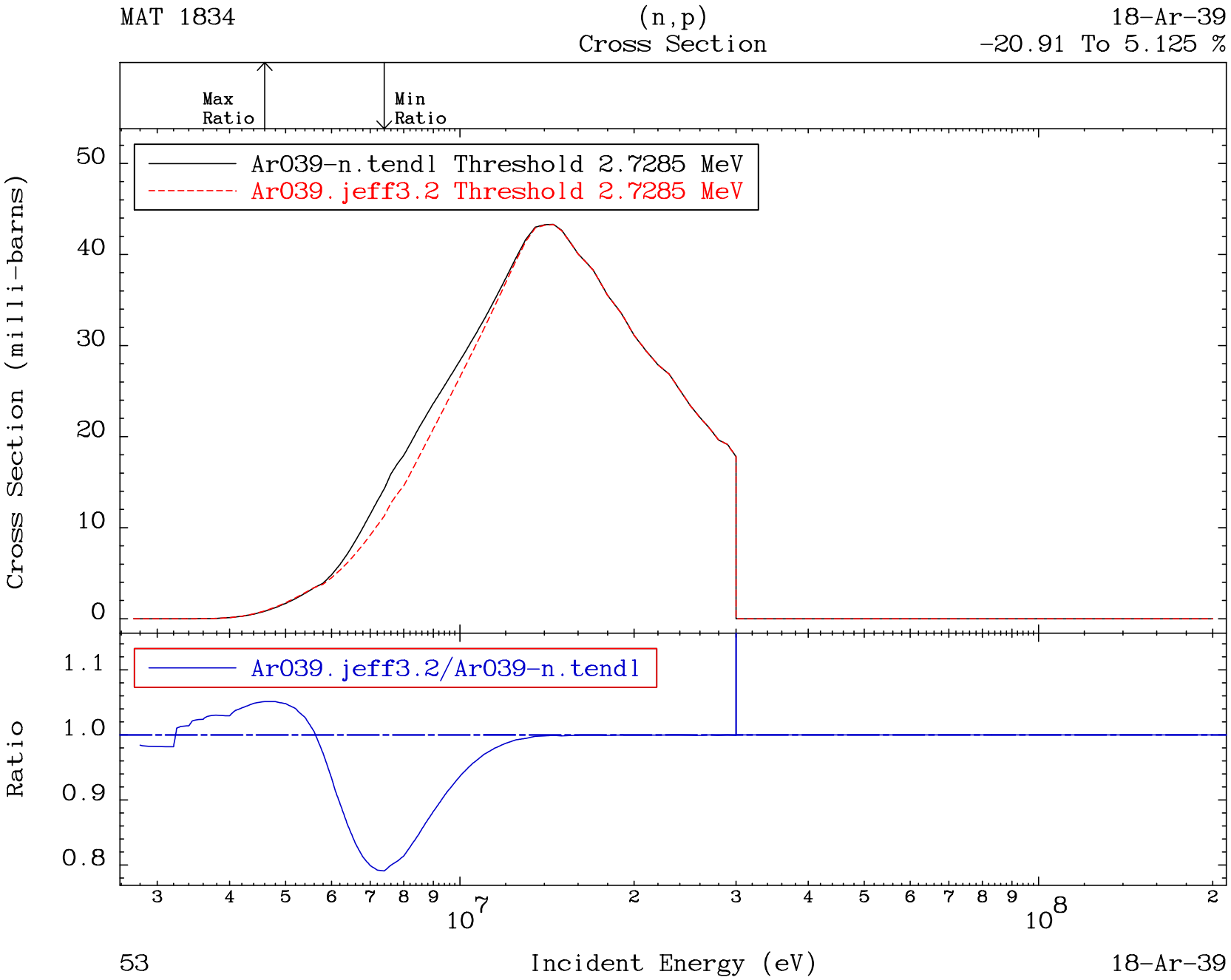

MAT 1834
3.740 MeV (n,n') Level
Cross Section
18-Ar-39
-97.23 To 9999. %
Min
Ratio
Max
Ratio
Ar039-n.tendl Threshold 3.8368 MeV
Ar039.jeff3.2 Threshold 3.9907 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
48
Incident Energy (eV)
18-Ar-39

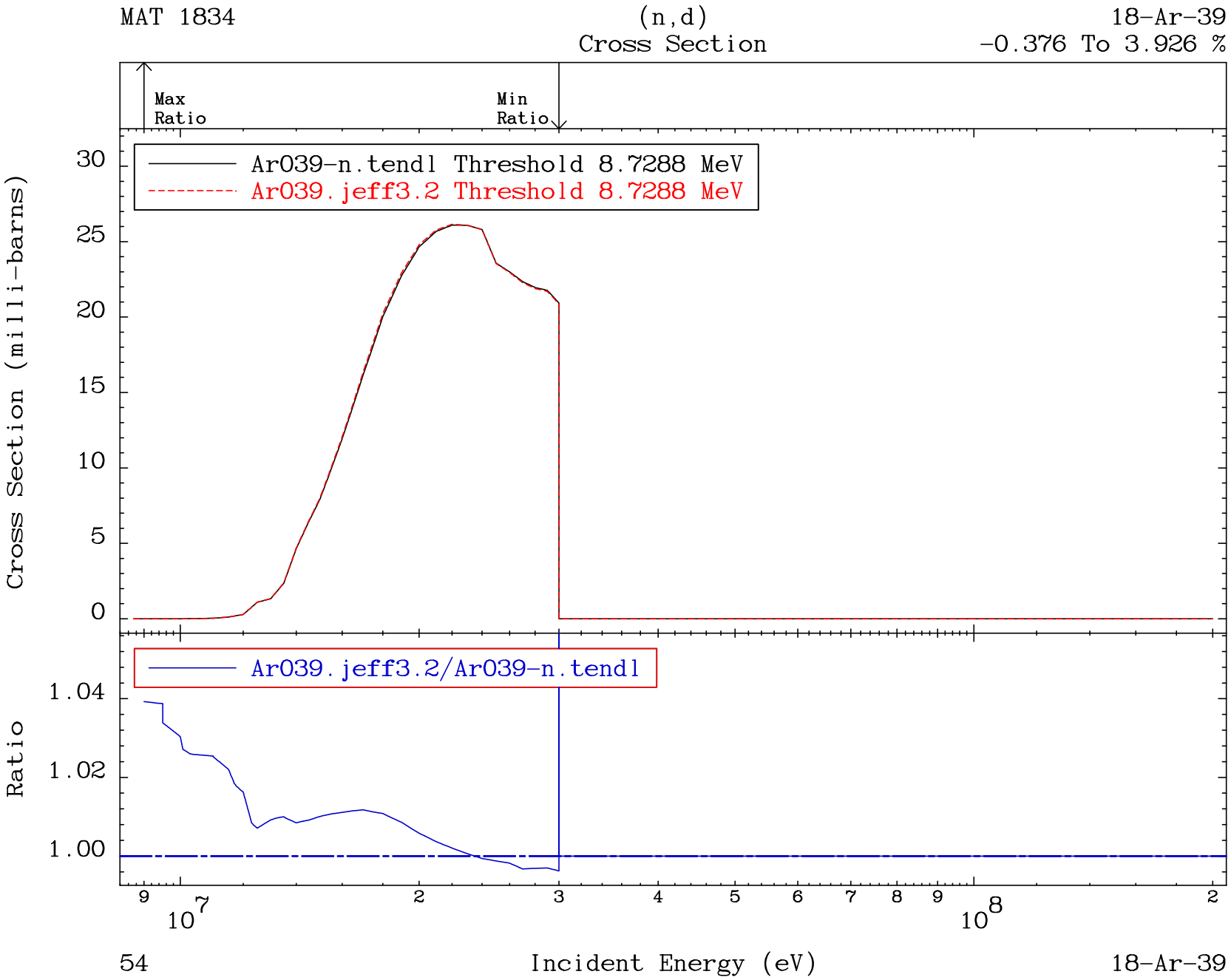

MAT 1834
3.837 MeV (n,n') Level
Cross Section
18-Ar-39
-95.54 To 7.377 %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 3.9363 MeV
Ar039.jeff3.2 Threshold 4.0584 MeV
Cross Section (milli-barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
49
18-Ar-39

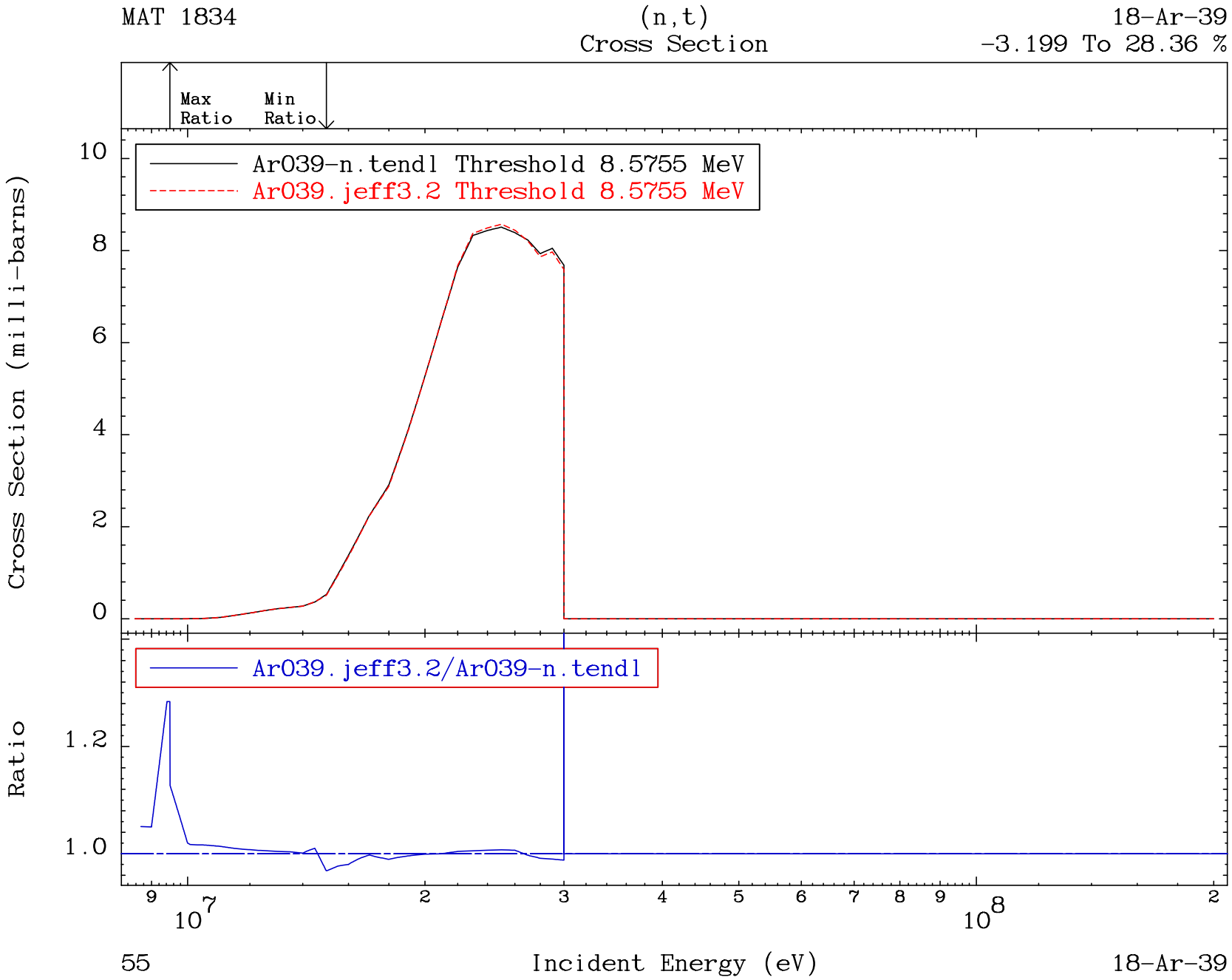

MAT 1834
3.893 MeV (n,n') Level
Cross Section
18-Ar-39
0.000 To 218.6 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 3.9938 MeV
Ar039.jeff3.2 Threshold 4.0954 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
3.0
2.0
1.0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
50
Incident Energy (eV)
18-Ar-39

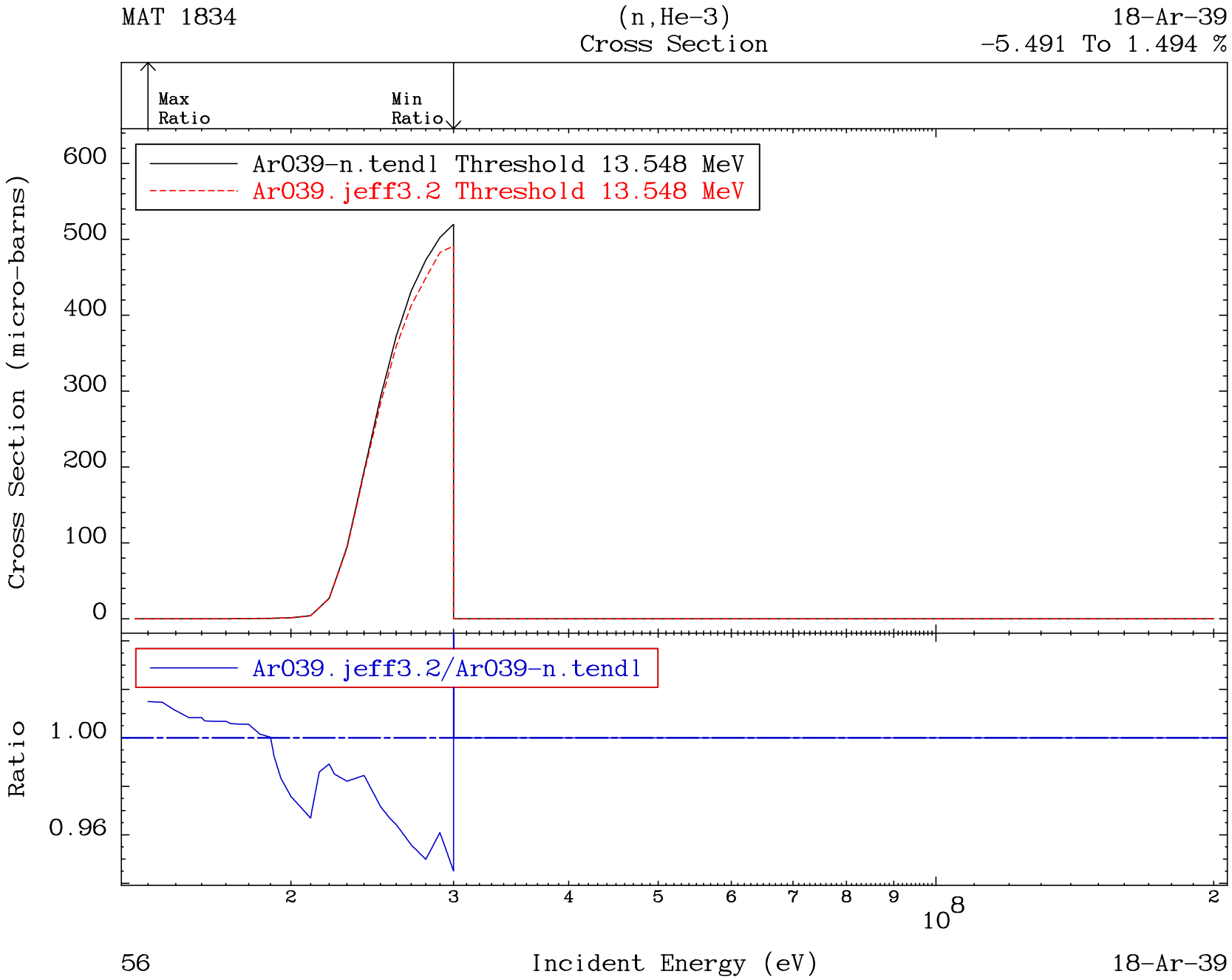

MAT 1834
(n,n') Continuum
Cross Section
18-Ar-39
-70.75 To 0.000 %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 3.9938 MeV
Ar039.jeff3.2 Threshold 4.0954 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.2
0.8
0.4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
51
Incident Energy (eV)
18-Ar-39

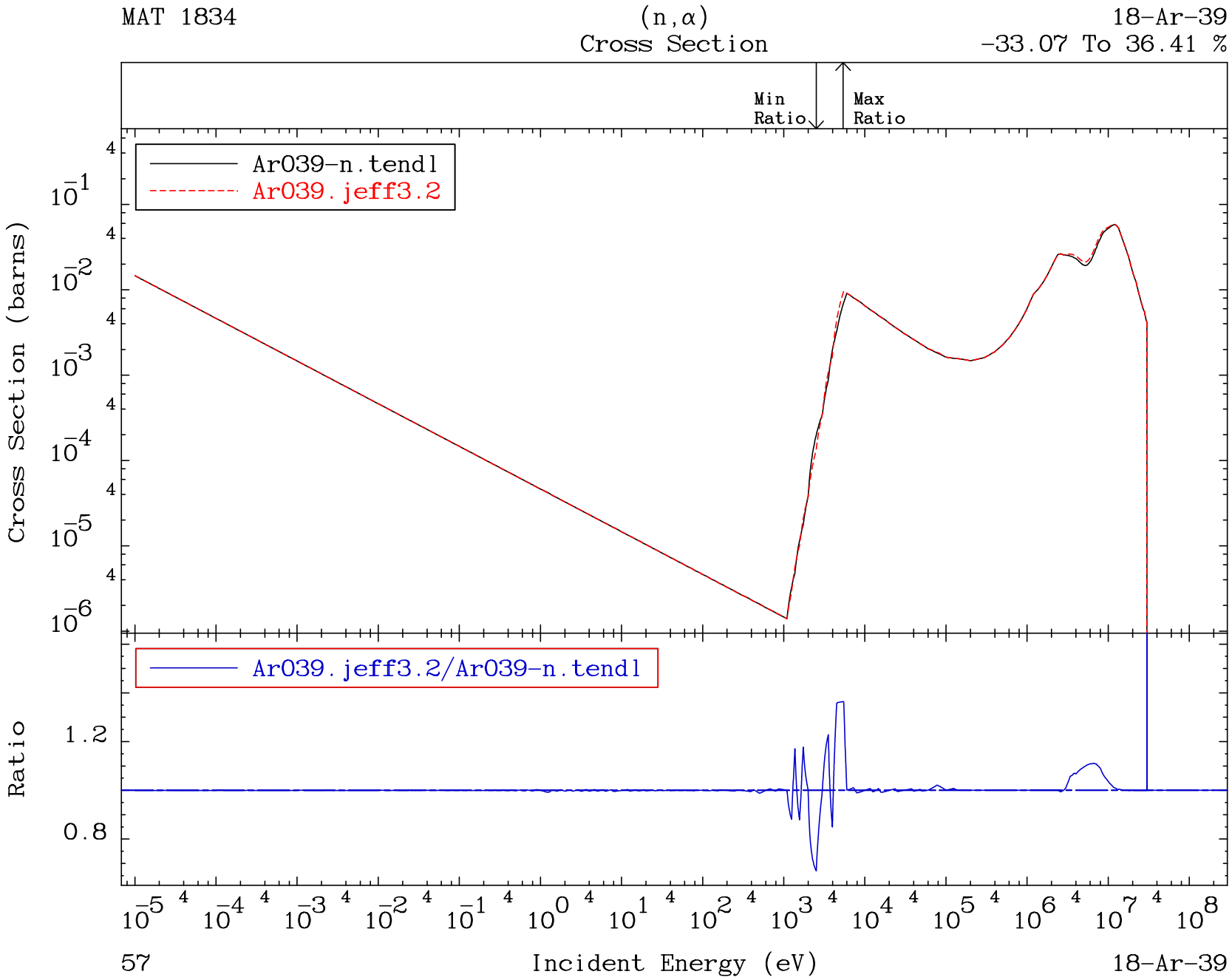

MAT 1834
(n,γ)
Cross Section
18-Ar-39
-100.0 To 588.7 %
Max Ratio
Min Ratio
Ar039-n.tendl
Ar039.jeff3.2
Cross Section (barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
52
18-Ar-39

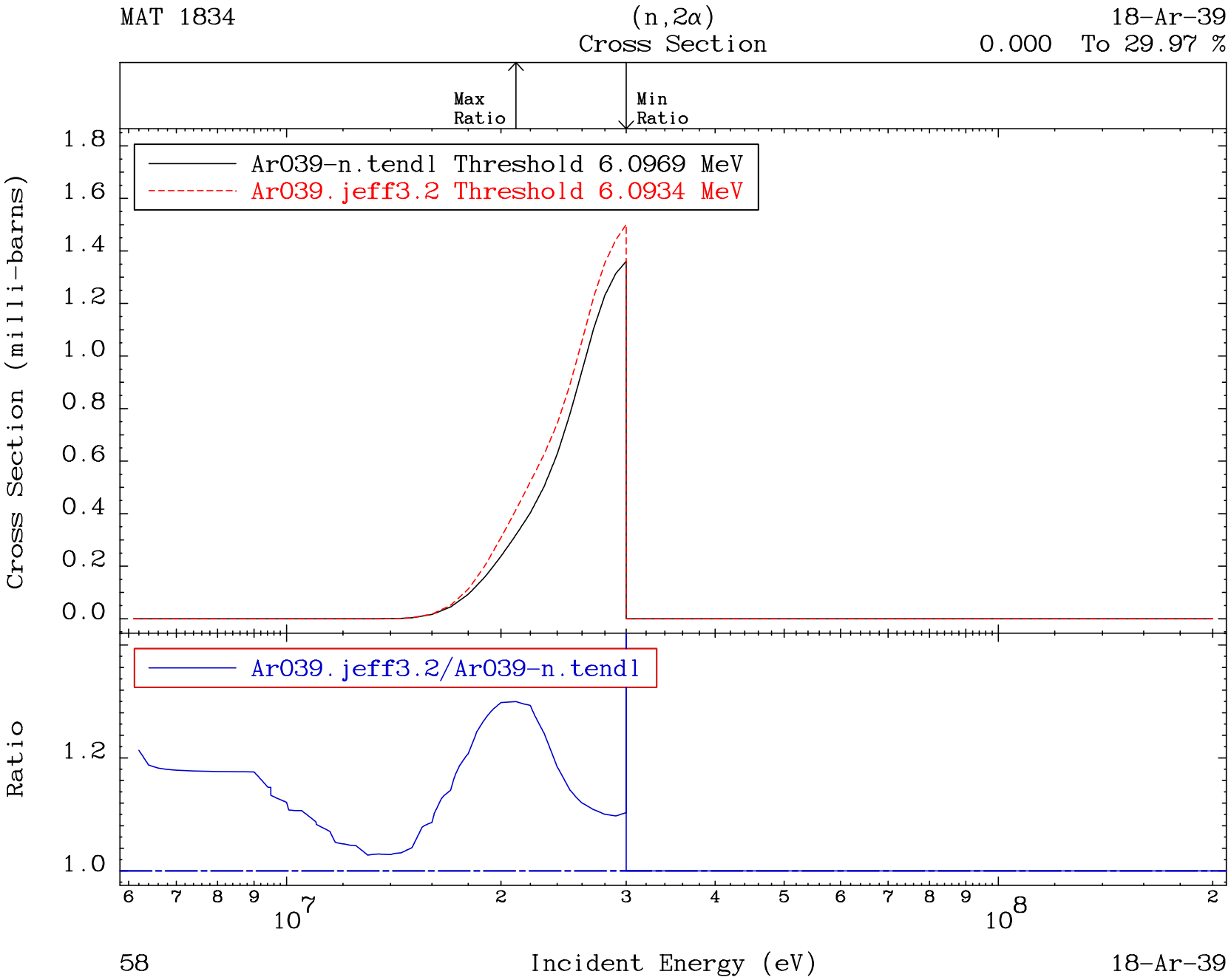

MAT 1834
(n,p)
Cross Section
18-Ar-39
-20.91 To 5.125 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 2.7285 MeV
Ar039.jeff3.2 Threshold 2.7285 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.1
1.0
0.9
0.8
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
53
Incident Energy (eV)
18-Ar-39

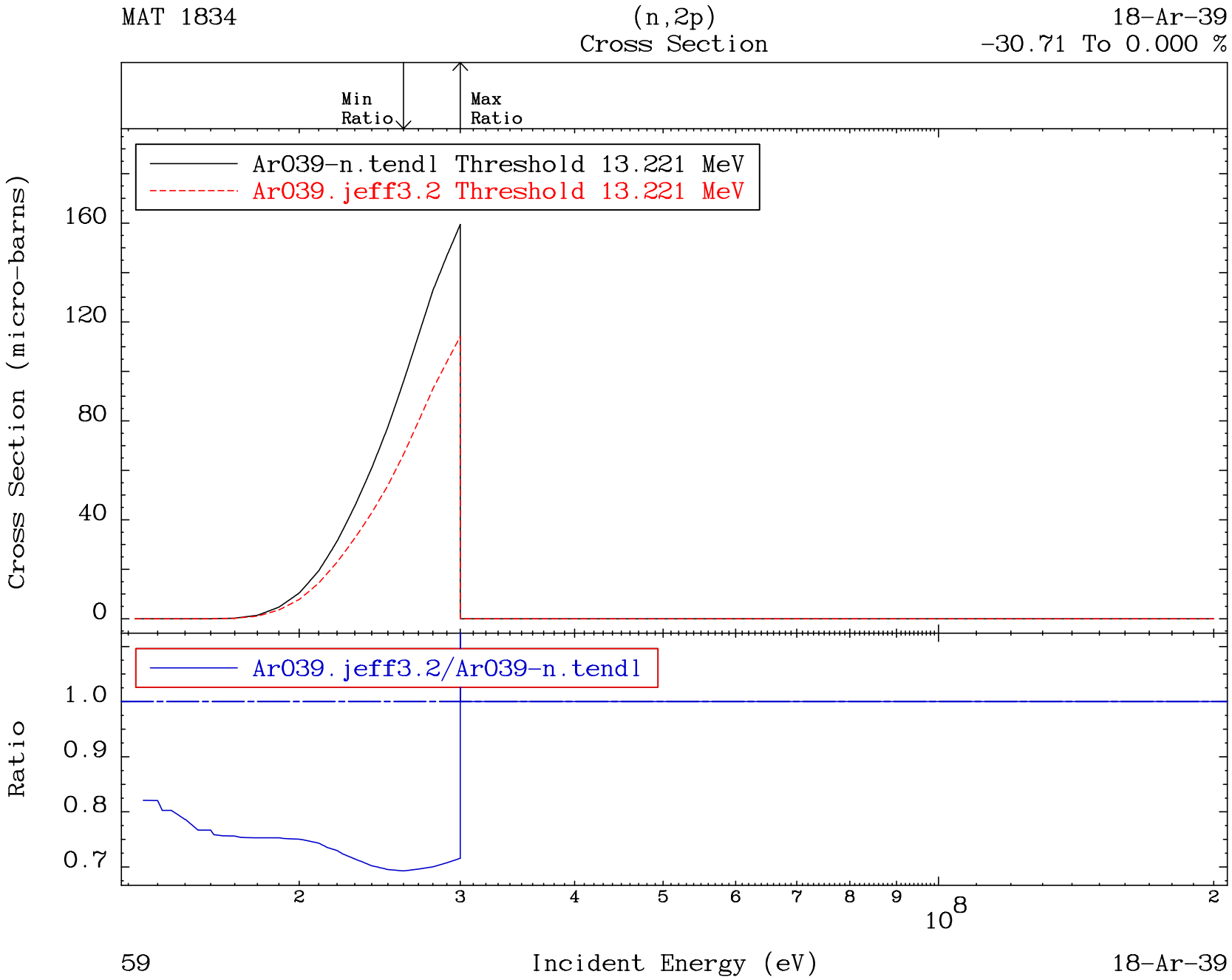

MAT 1834
(n,d)
Cross Section
18-Ar-39
-0.376 To 3.926 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 8.7288 MeV
Ar039.jeff3.2 Threshold 8.7288 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.04
1.02
1.00
9
10^7
2
3
4
5
6
7
8
9
10^8
2
54
Incident Energy (eV)
18-Ar-39

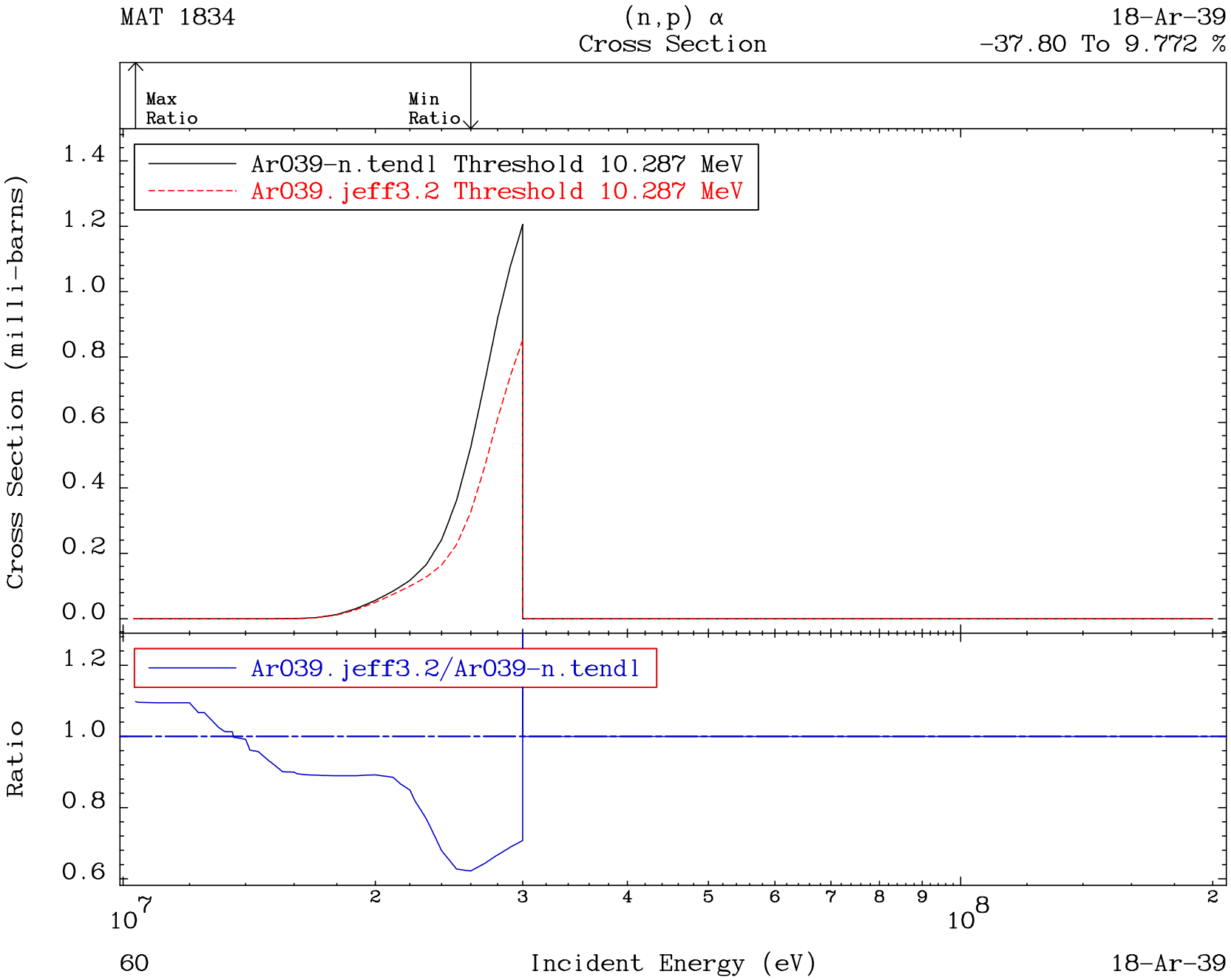

MAT 1834
(n,t)
Cross Section
18-Ar-39
-3.199 To 28.36 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 8.5755 MeV
Ar039.jeff3.2 Threshold 8.5755 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.2
1.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
55
Incident Energy (eV)
18-Ar-39

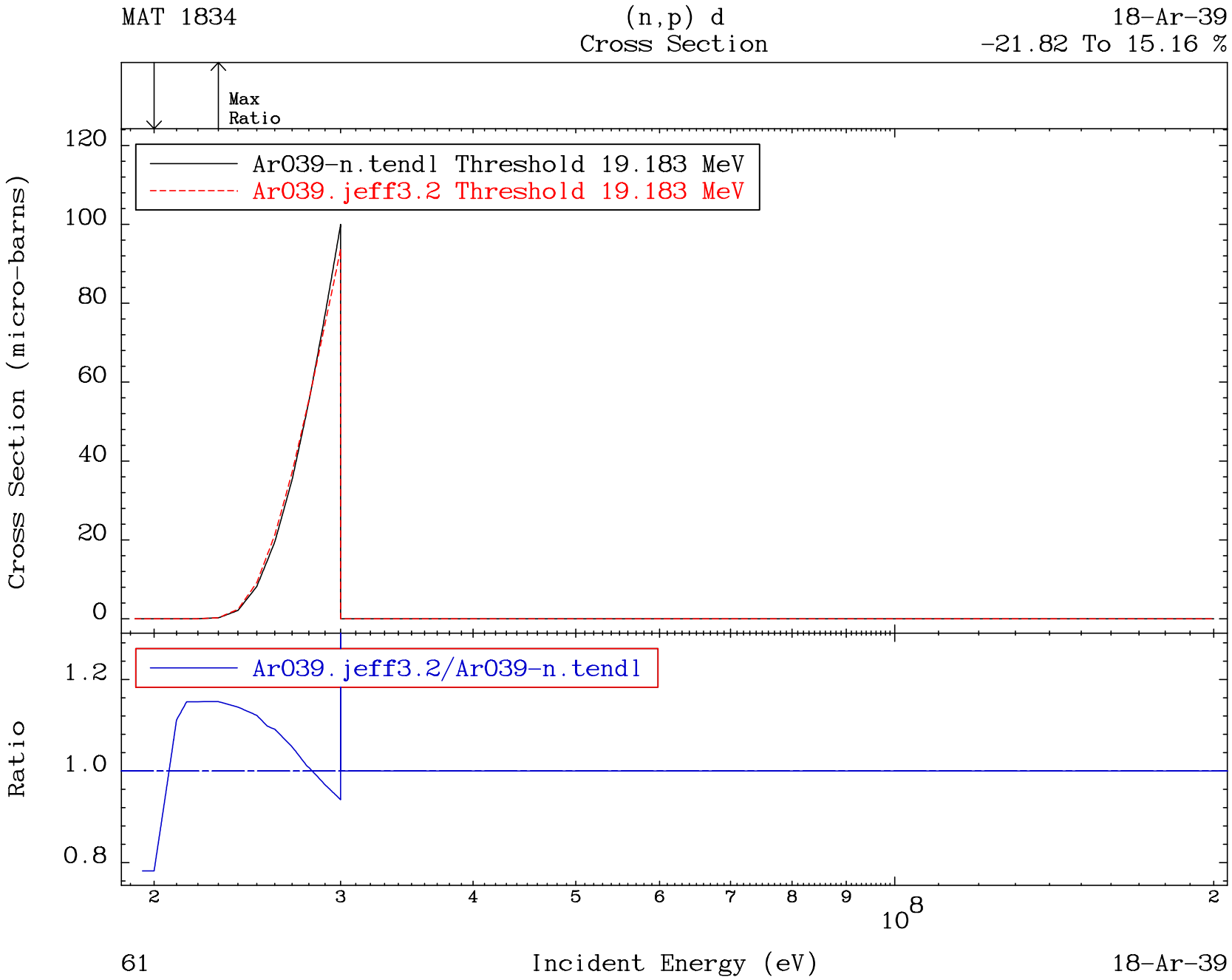

MAT 1834
(n,He-3)
Cross Section
18-Ar-39
-5.491 To 1.494 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 13.548 MeV
Ar039.jeff3.2 Threshold 13.548 MeV
Cross Section (micro-barns)
600
500
400
300
200
100
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.00
0.96
2
3
4
5
6
7
8
9
10^8
2
56
Incident Energy (eV)
18-Ar-39

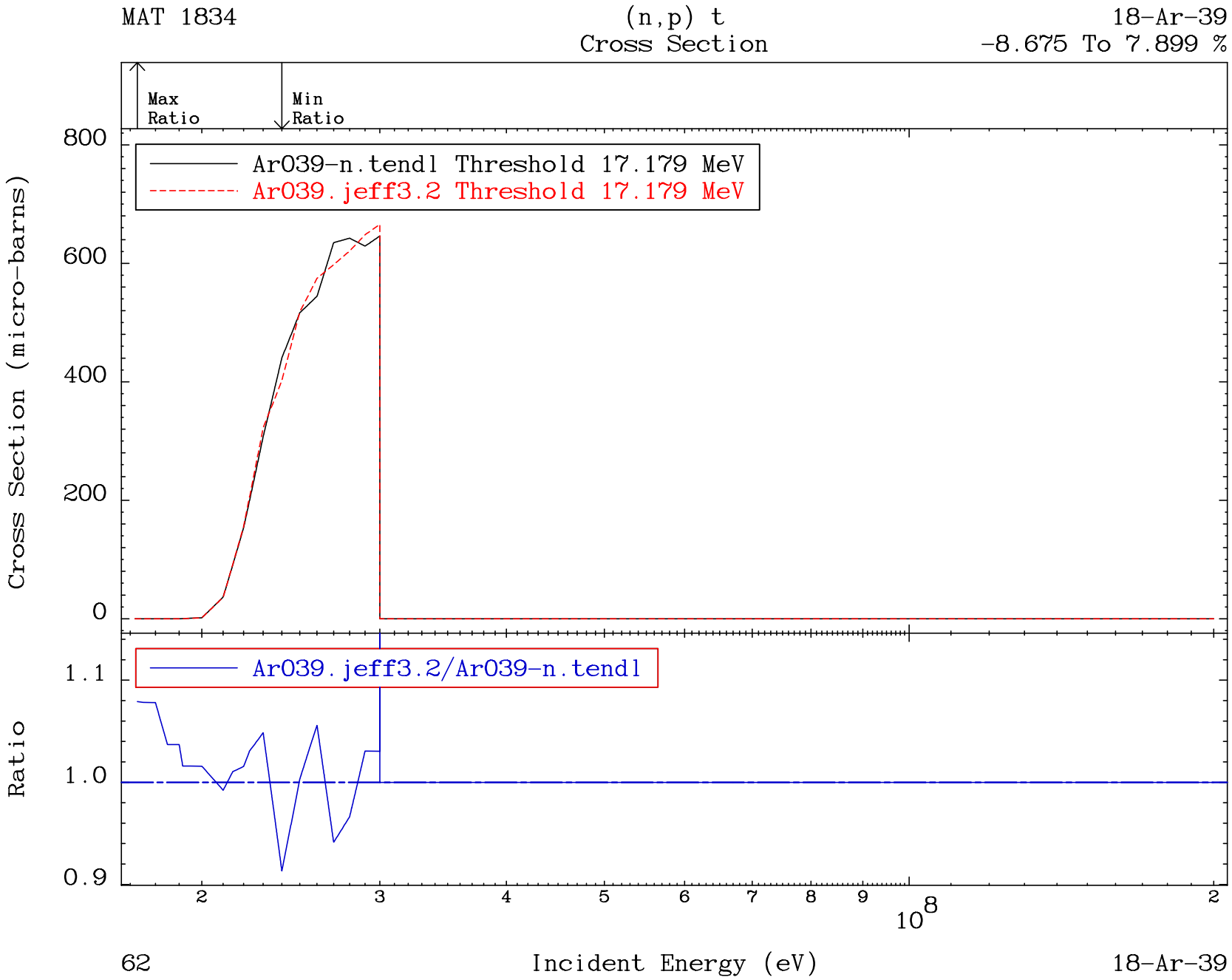

MAT 1834
(n,α)
Cross Section
18-Ar-39
-33.07 To 36.41 %
Min Ratio
Max Ratio
Ar039-n.tendl
Ar039.jeff3.2
Cross Section (barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
57
18-Ar-39

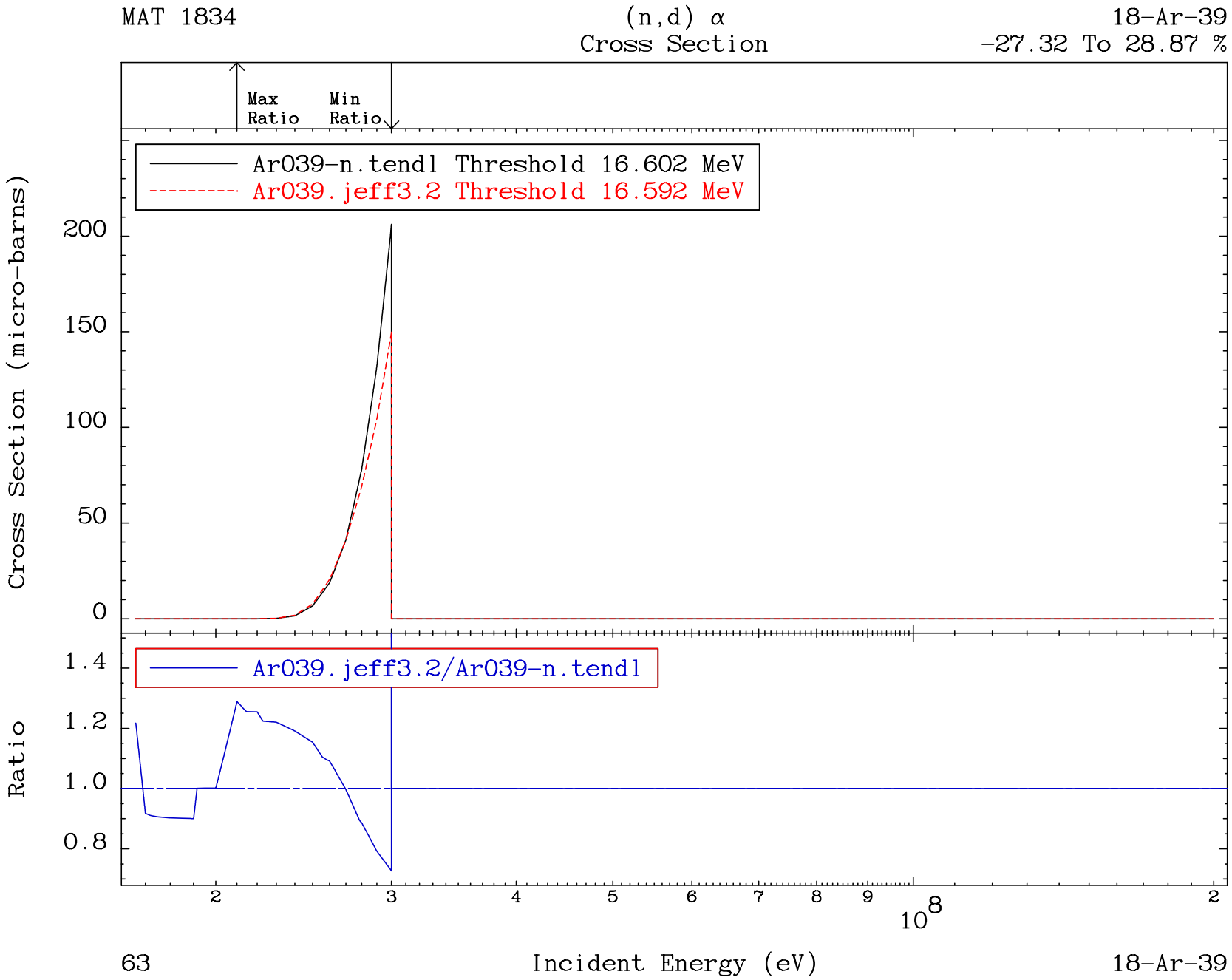

MAT 1834
(n,2α)
Cross Section
18-Ar-39
0.000 To 29.97 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 6.0969 MeV
Ar039.jeff3.2 Threshold 6.0934 MeV
Cross Section (milli-barns)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.2
1.0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
58
Incident Energy (eV)
18-Ar-39

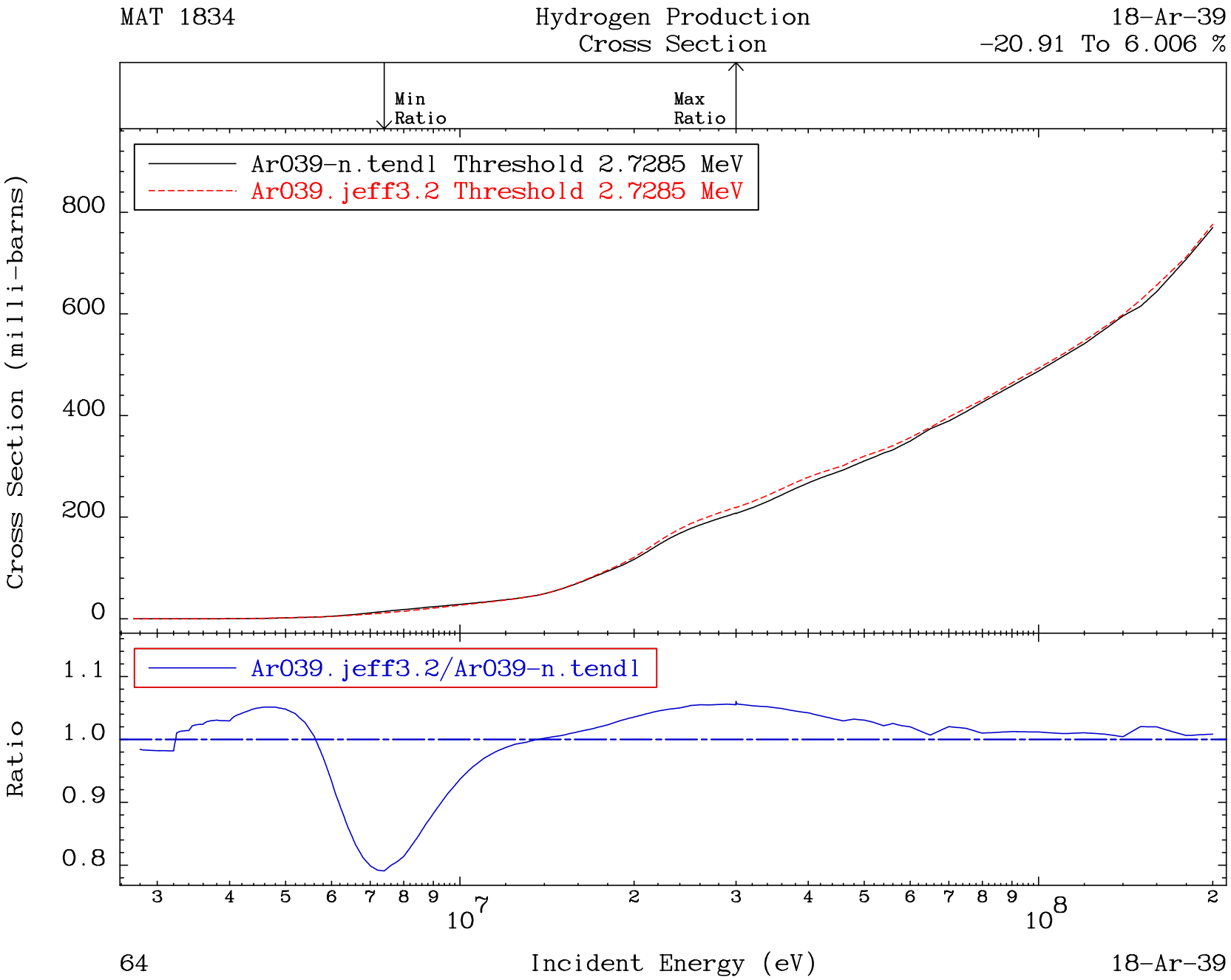

MAT 1834
(n,2p)
Cross Section
18-Ar-39
-30.71 To 0.000 %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 13.221 MeV
Ar039.jeff3.2 Threshold 13.221 MeV
Cross Section (micro-barns)
160
120
80
40
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.0
0.9
0.8
0.7
2
3
4
5
6
7
8
9
10^8
2
59
Incident Energy (eV)
18-Ar-39

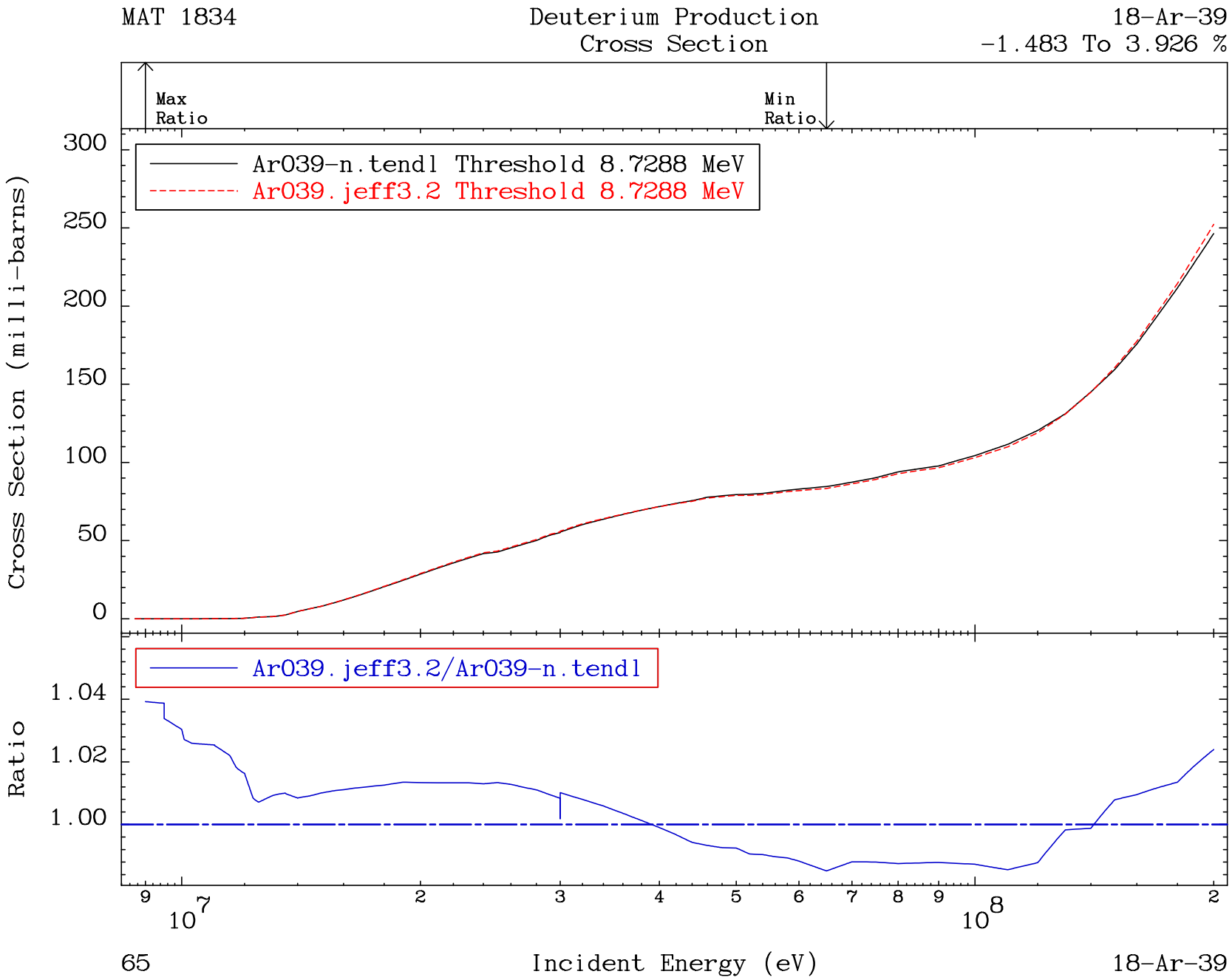

MAT 1834
(n,p) α
Cross Section
18-Ar-39
-37.80 To 9.772 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 10.287 MeV
Ar039.jeff3.2 Threshold 10.287 MeV
Cross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.2
1.0
0.8
0.6
10^7
2
3
4
5
6
7
8
9
10^8
2
60
Incident Energy (eV)
18-Ar-39

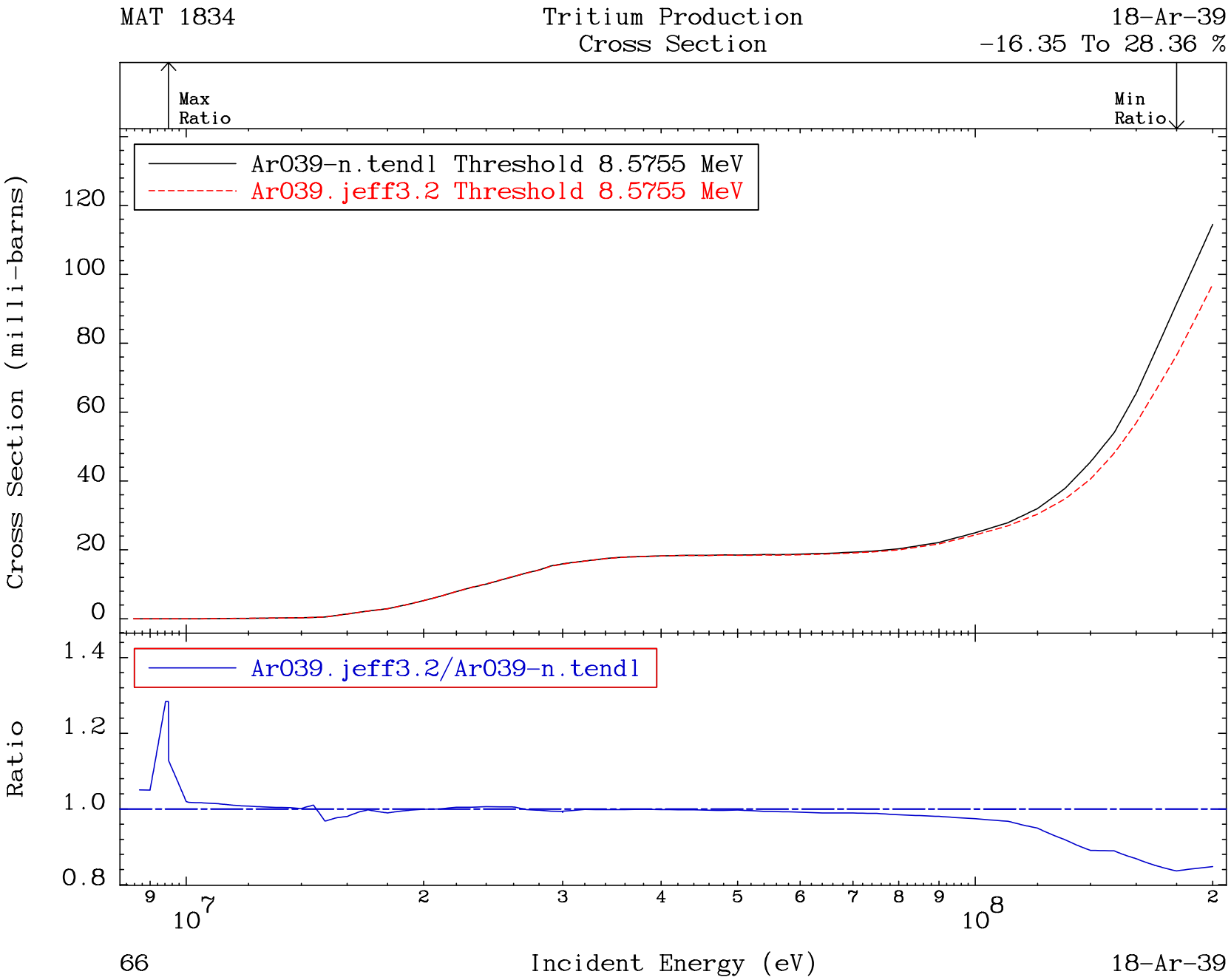

MAT 1834
(n,p) d
Cross Section
18-Ar-39
-21.82 To 15.16 %
Max
Ratio
Ar039-n.tendl Threshold 19.183 MeV
Ar039.jeff3.2 Threshold 19.183 MeV
Cross Section (micro-barns)
120
100
80
60
40
20
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.2
1.0
0.8
2
3
4
5
6
7
8
9
10^8
2
61
Incident Energy (eV)
18-Ar-39

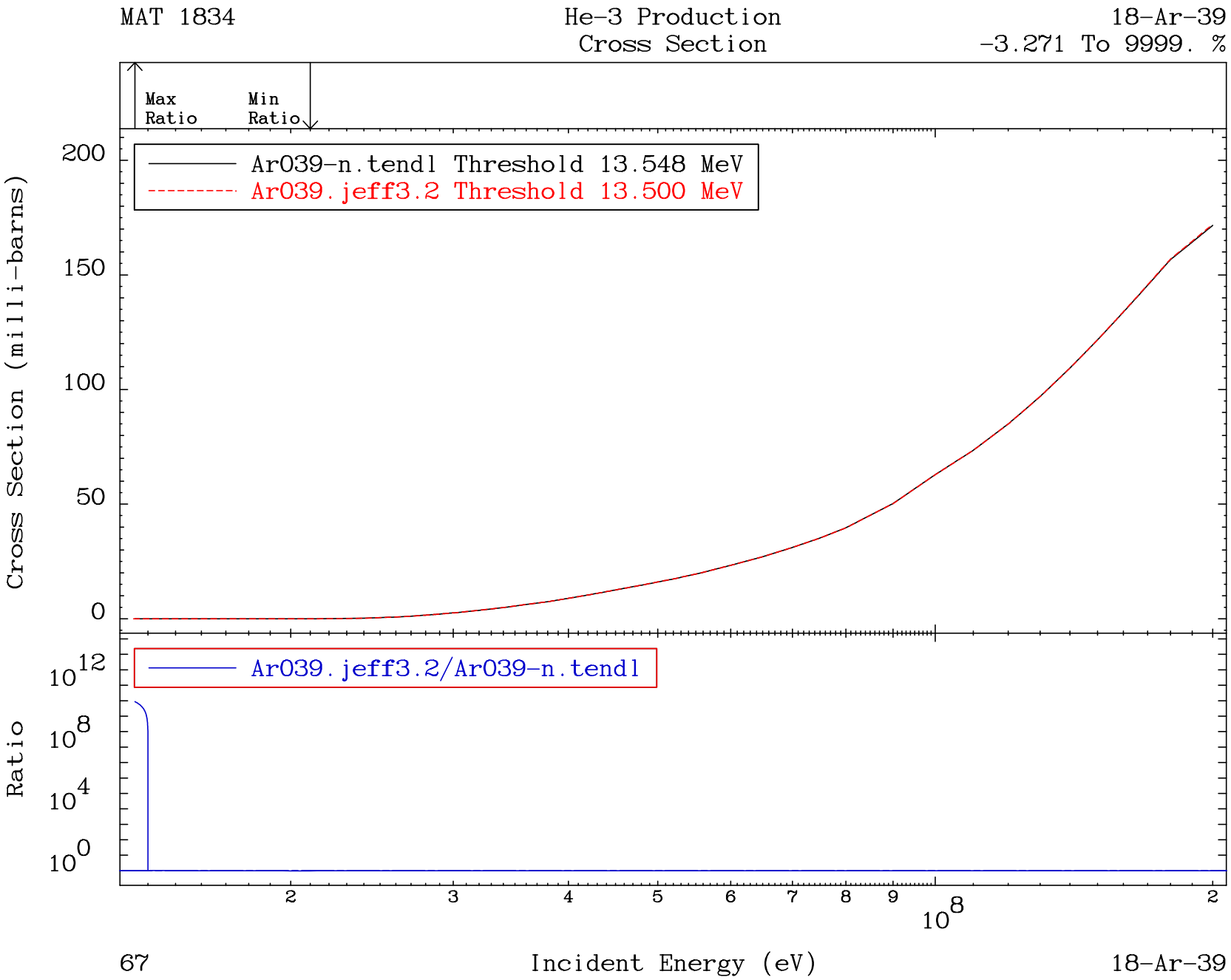

MAT 1834
(n,p) t
Cross Section
18-Ar-39
-8.675 To 7.899 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 17.179 MeV
Ar039.jeff3.2 Threshold 17.179 MeV
Cross Section (micro-barns)
800
600
400
200
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.1
1.0
0.9
2
3
4
5
6
7
8
9
10^8
2
62
Incident Energy (eV)
18-Ar-39

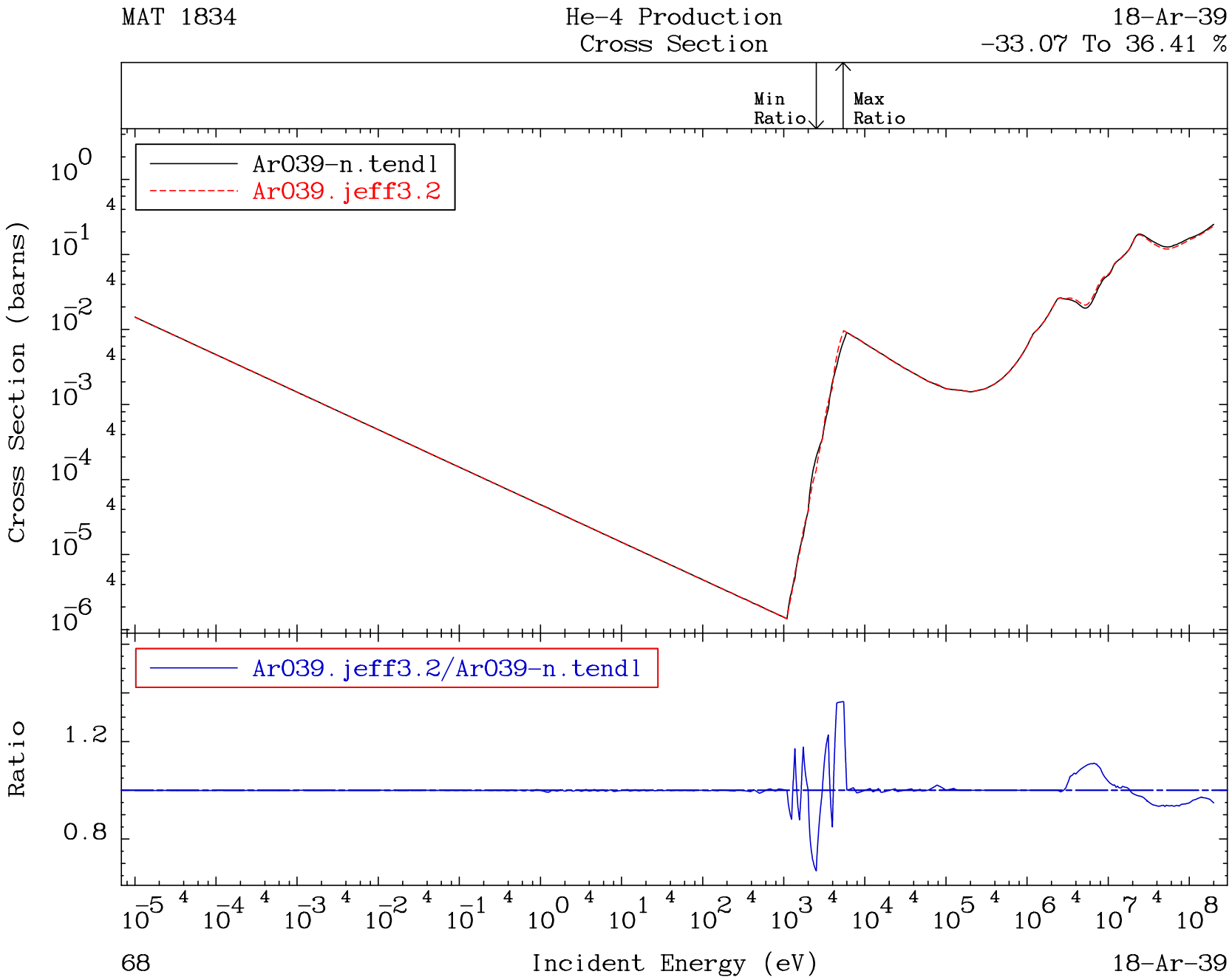

MAT 1834
(n,d) α
Cross Section
18-Ar-39
-27.32 To 28.87 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 16.602 MeV
Ar039.jeff3.2 Threshold 16.592 MeV
Cross Section (micro-barns)
200
150
100
50
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.4
1.2
1.0
0.8
2
3
4
5
6
7
8
9
10^8
2
63
Incident Energy (eV)
18-Ar-39

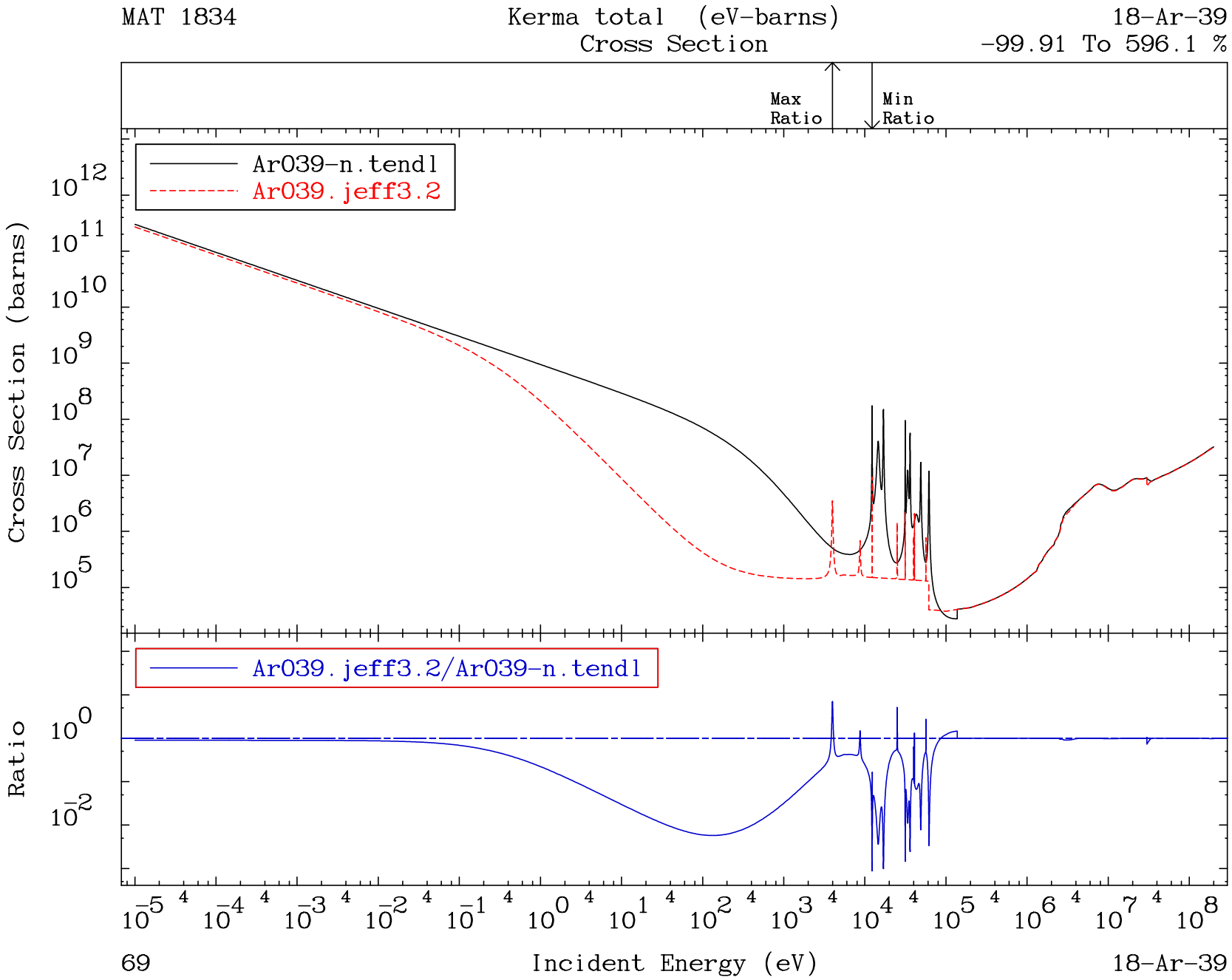

MAT 1834
Hydrogen Production
Cross Section
18-Ar-39
-20.91 To 6.006 %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 2.7285 MeV
Ar039.jeff3.2 Threshold 2.7285 MeV
Cross Section (milli-barns)
800
600
400
200
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.1
1.0
0.9
0.8
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
64
Incident Energy (eV)
18-Ar-39

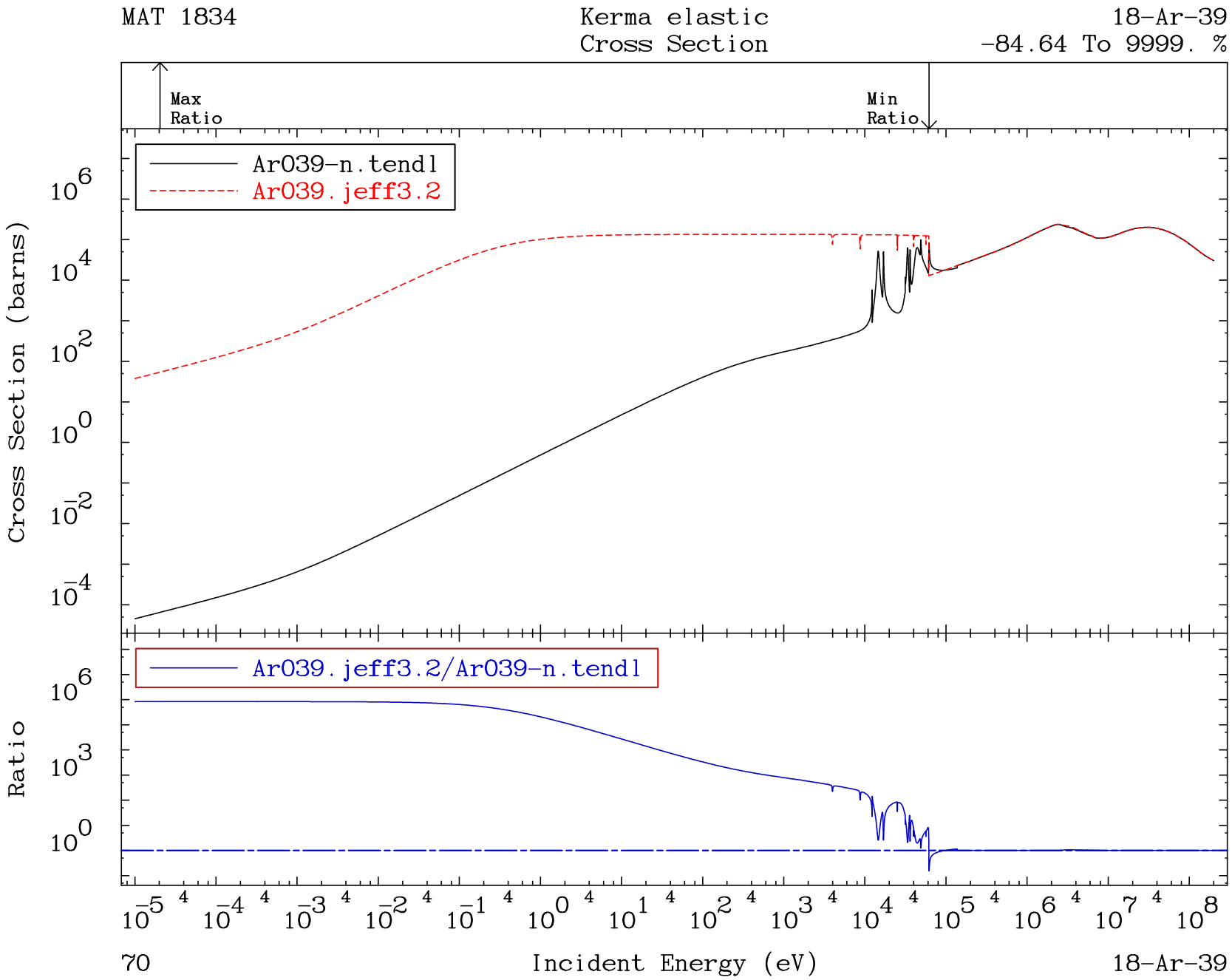

MAT 1834
Deuterium Production
Cross Section
18-Ar-39
-1.483 To 3.926 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 8.7288 MeV
Ar039.jeff3.2 Threshold 8.7288 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.04
1.02
1.00
9
10^7
2
3
4
5
6
7
8
9
10^8
2
65
Incident Energy (eV)
18-Ar-39

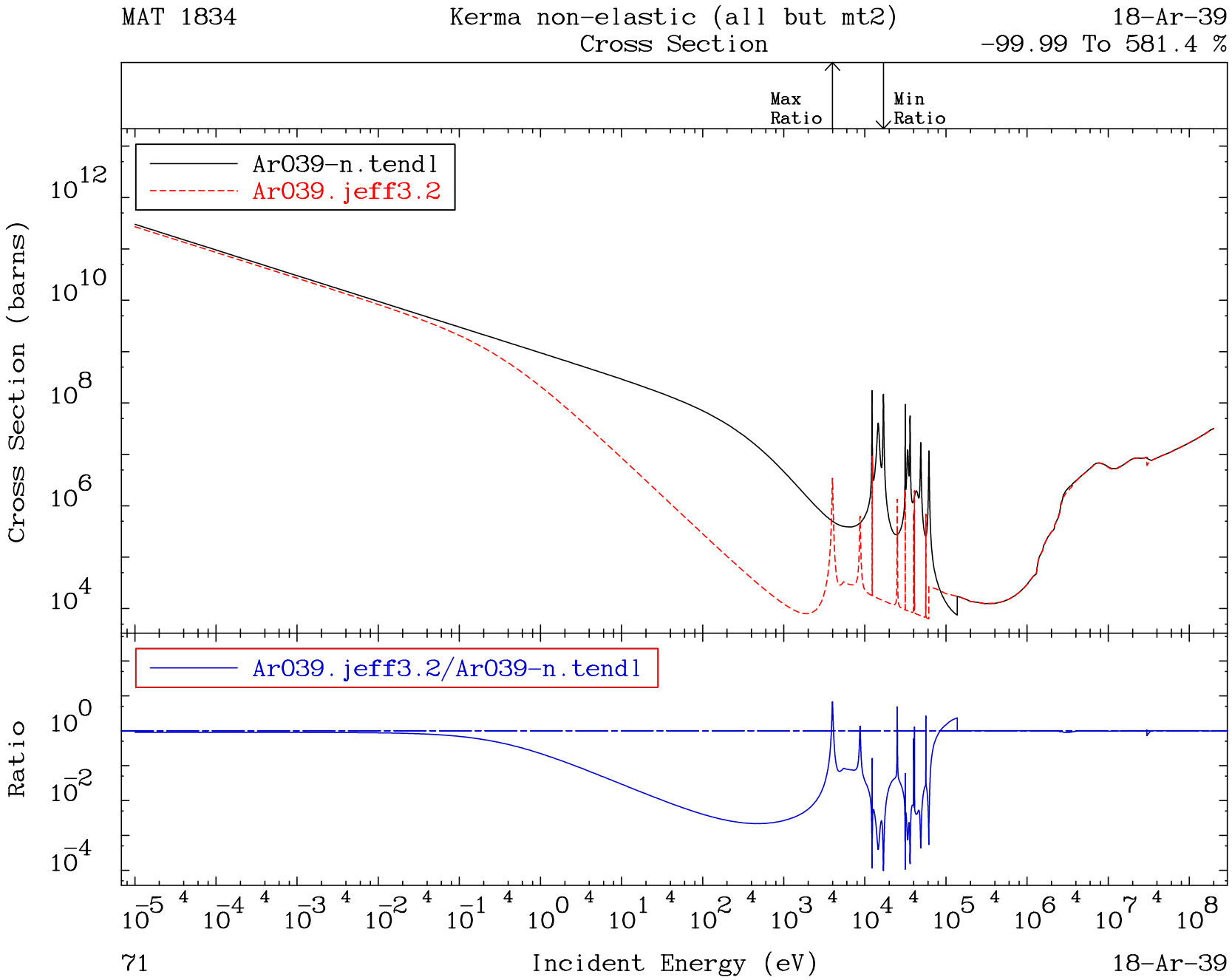

MAT 1834
Tritium Production
Cross Section
18-Ar-39
-16.35 To 28.36 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 8.5755 MeV
Ar039.jeff3.2 Threshold 8.5755 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.4
1.2
1.0
0.8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
66
Incident Energy (eV)
18-Ar-39

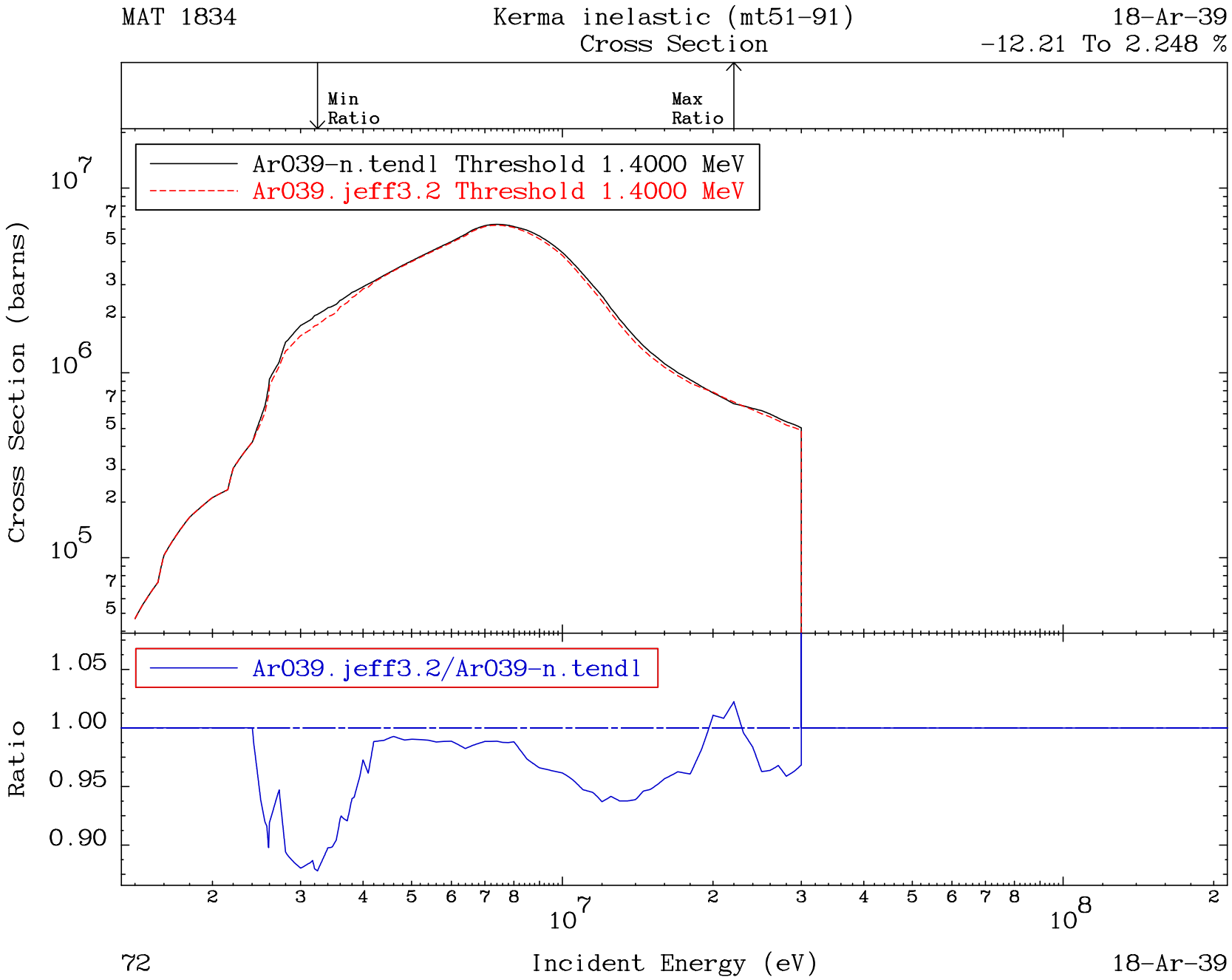

MAT 1834
He-3 Production
Cross Section
18-Ar-39
-3.271 To 9999. %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 13.548 MeV
Ar039.jeff3.2 Threshold 13.500 MeV
Cross Section (milli-barns)
200
150
100
50
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
10^12
10^8
10^4
10^0
2
3
4
5
6
7
8
9
10^8
2
67
Incident Energy (eV)
18-Ar-39

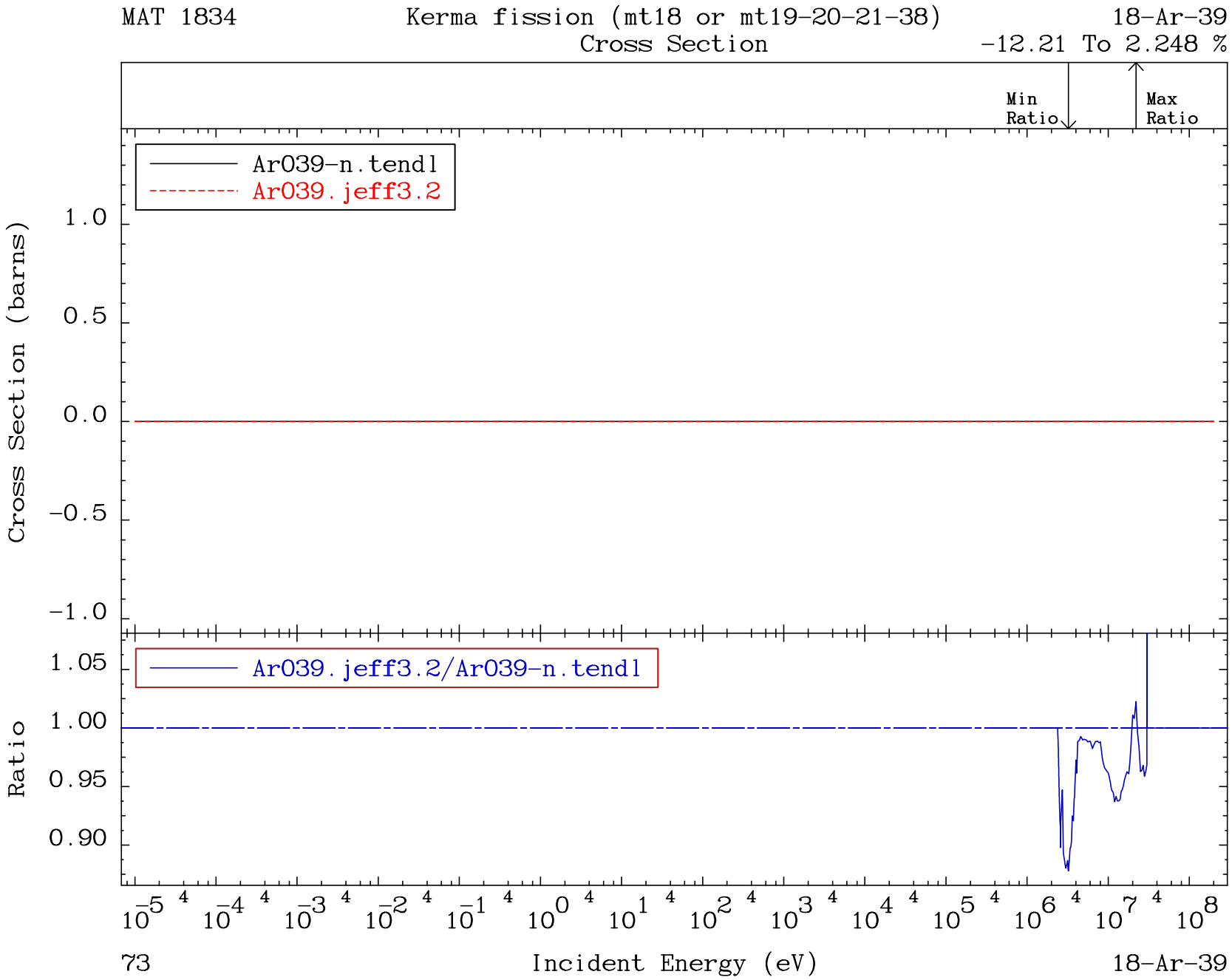

MAT 1834
He-4 Production
Cross Section
18-Ar-39
-33.07 To 36.41 %
Min Ratio
Max Ratio
Ar039-n.tendl
Ar039.jeff3.2
Cross Section (barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.2
0.8
Incident Energy (eV)
68
18-Ar-39

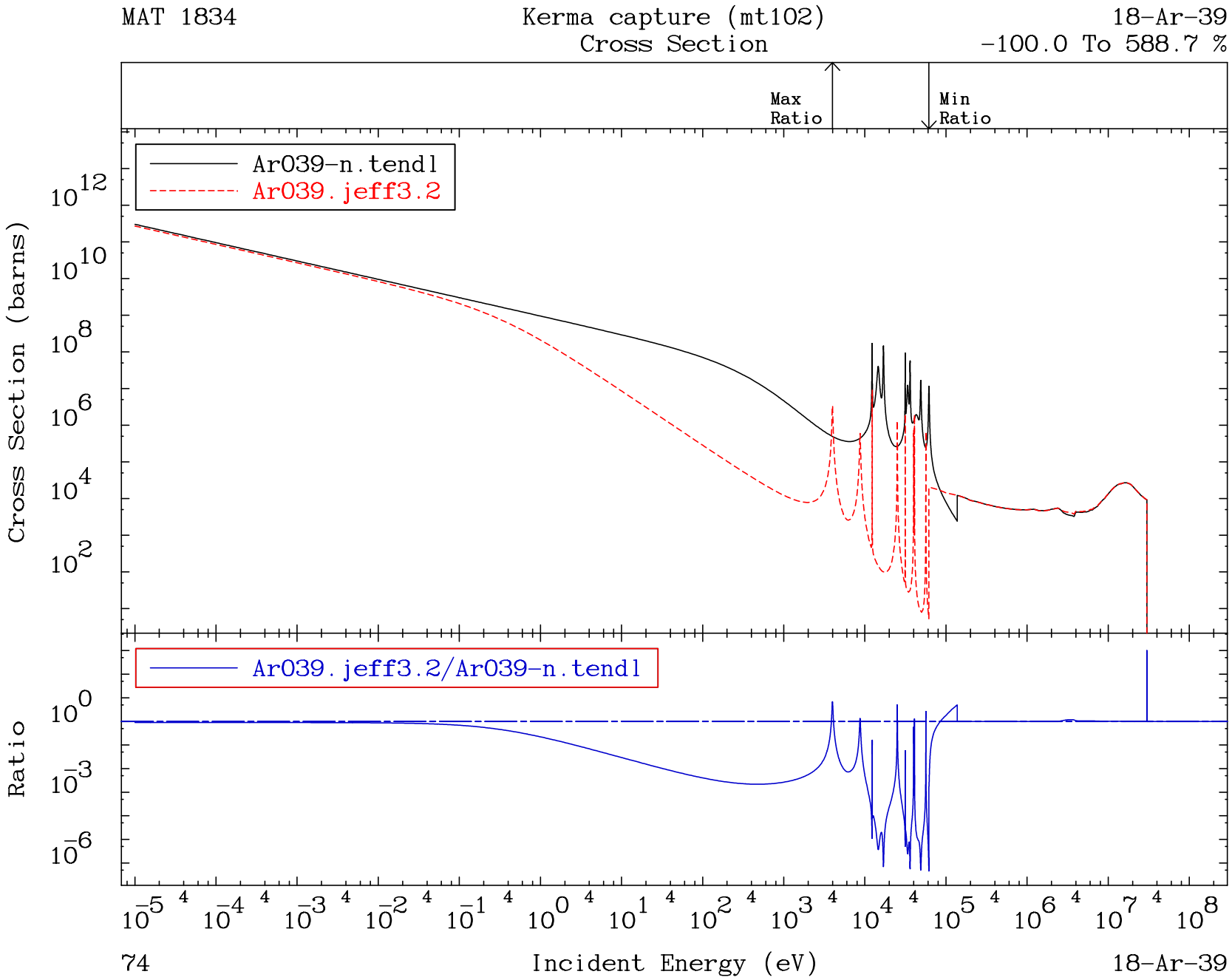

MAT 1834
Kerma total (eV-barns)
Cross Section
18-Ar-39
-99.91 To 596.1 %
Max Ratio
Min Ratio
Ar039-n.tendl
Ar039.jeff3.2
Cross Section (barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
69
18-Ar-39

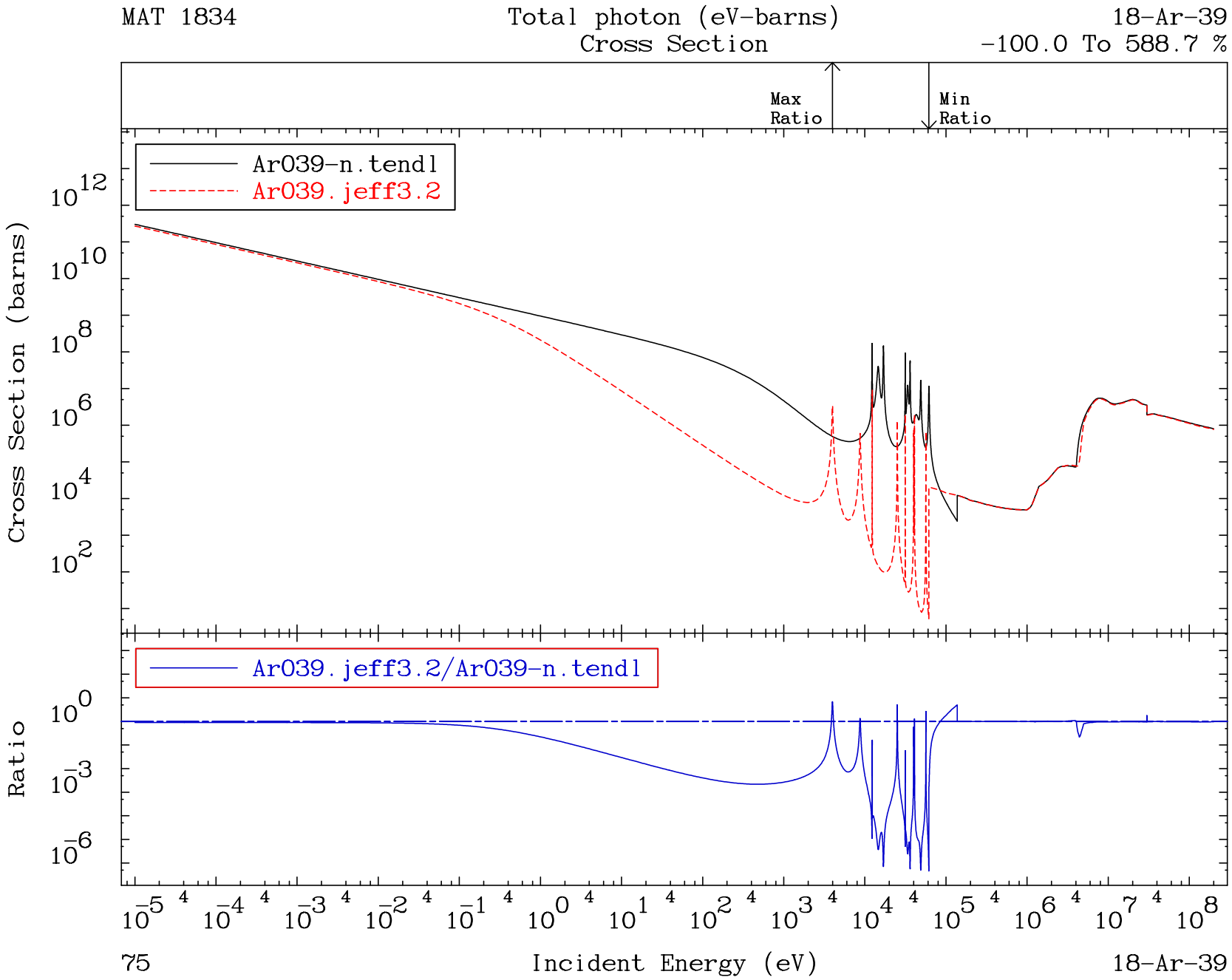

MAT 1834
Kerma elastic
Cross Section
18-Ar-39
-84.64 To 9999. %
Max
Ratio
Min
Ratio
Ar039-n.tendl
Ar039.jeff3.2
Cross Section (barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
70
18-Ar-39

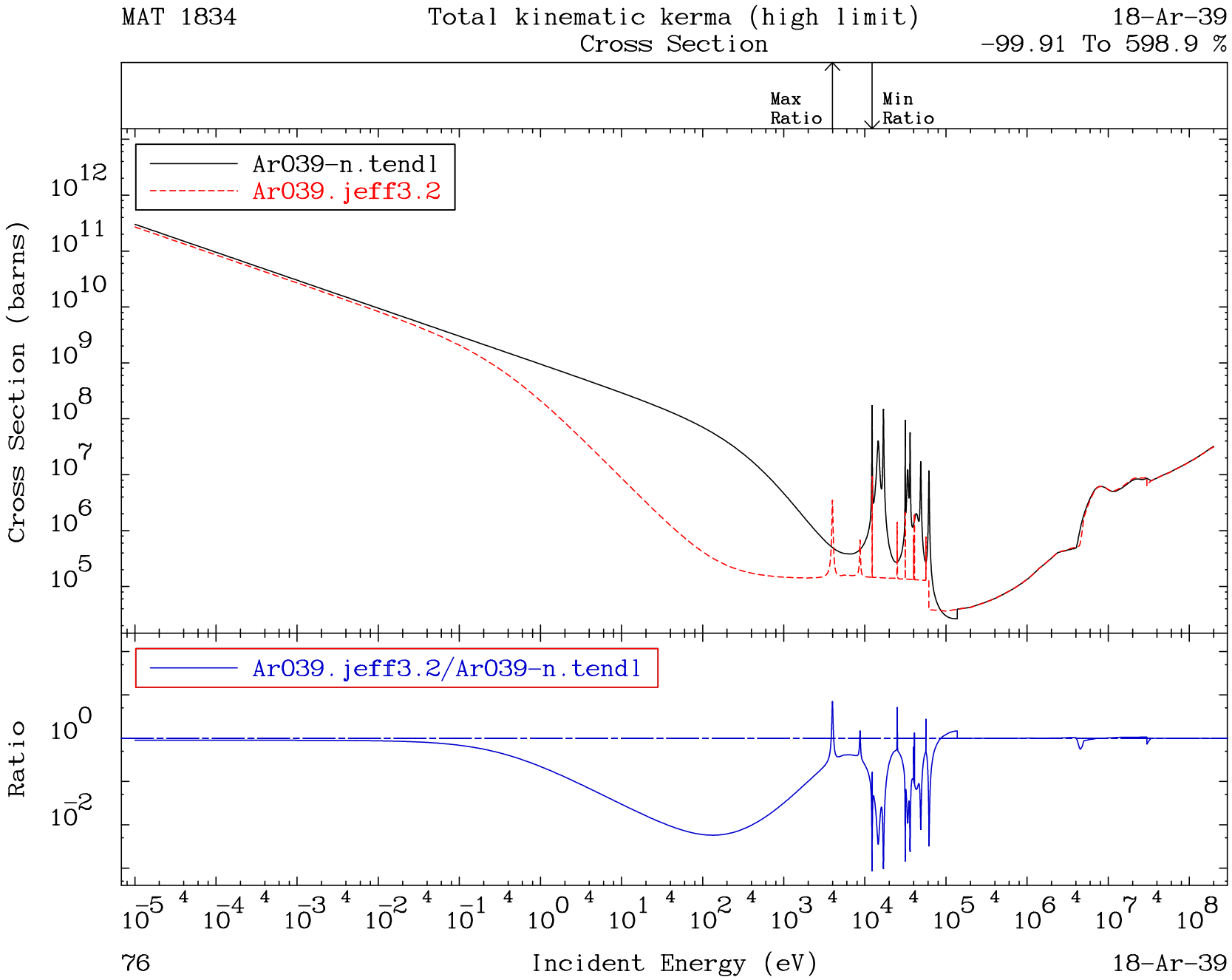

MAT 1834
Kerma non-elastic (all but mt2)
Cross Section
18-Ar-39
-99.99 To 581.4 %
Max Ratio
Min Ratio
Ar039-n.tendl
Ar039.jeff3.2
Cross Section (barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
71
18-Ar-39

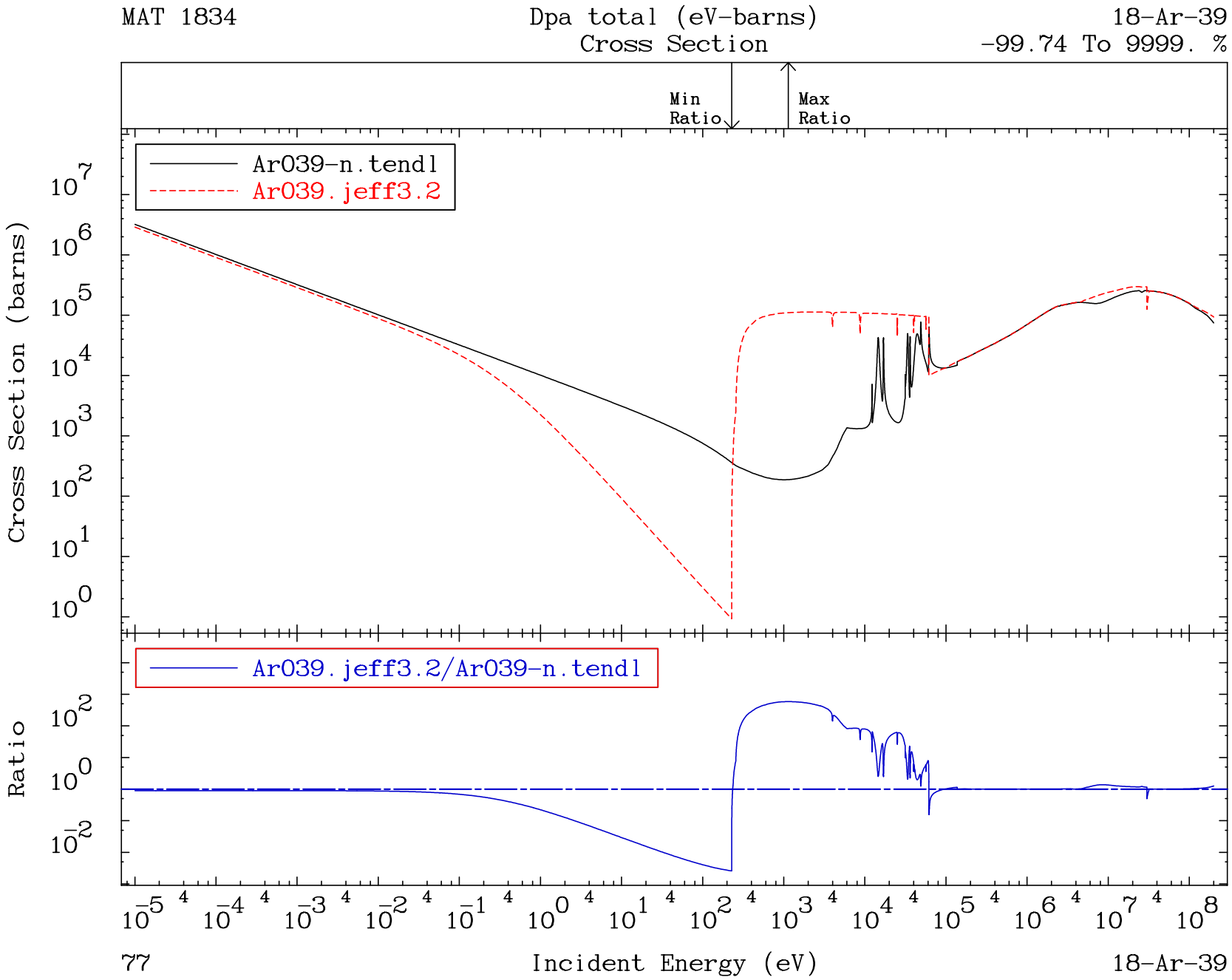

MAT 1834
Kerma inelastic (mt51-91)
Cross Section
18-Ar-39
-12.21 To 2.248 %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 1.4000 MeV
Ar039.jeff3.2 Threshold 1.4000 MeV
Cross Section (barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
72
18-Ar-39

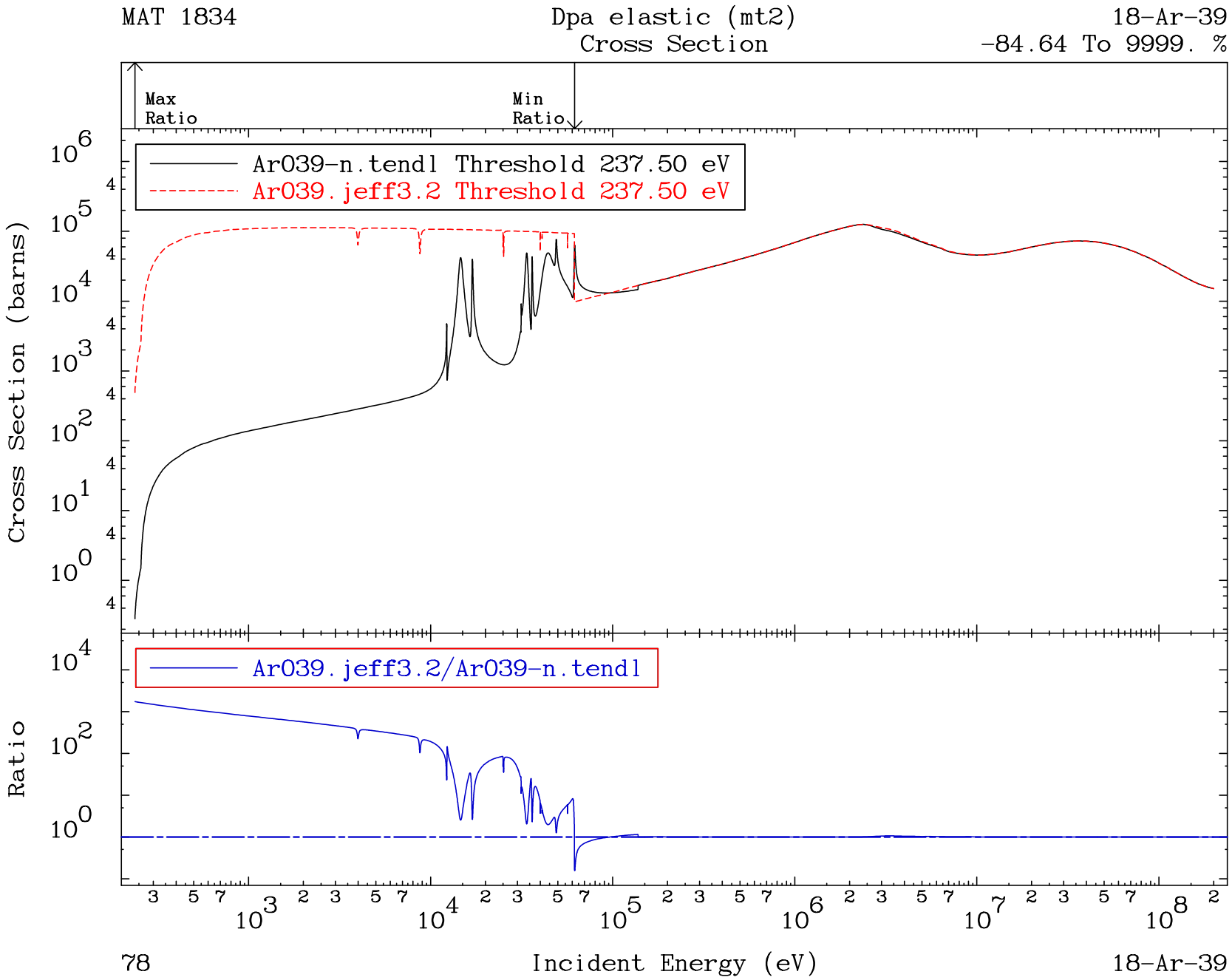

MAT 1834
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
18-Ar-39
-12.21 To 2.248 %
Min Ratio
Max Ratio
Ar039-n.tendl
Ar039.jeff3.2
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.05
1.00
0.95
0.90
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
73
Incident Energy (eV)
18-Ar-39

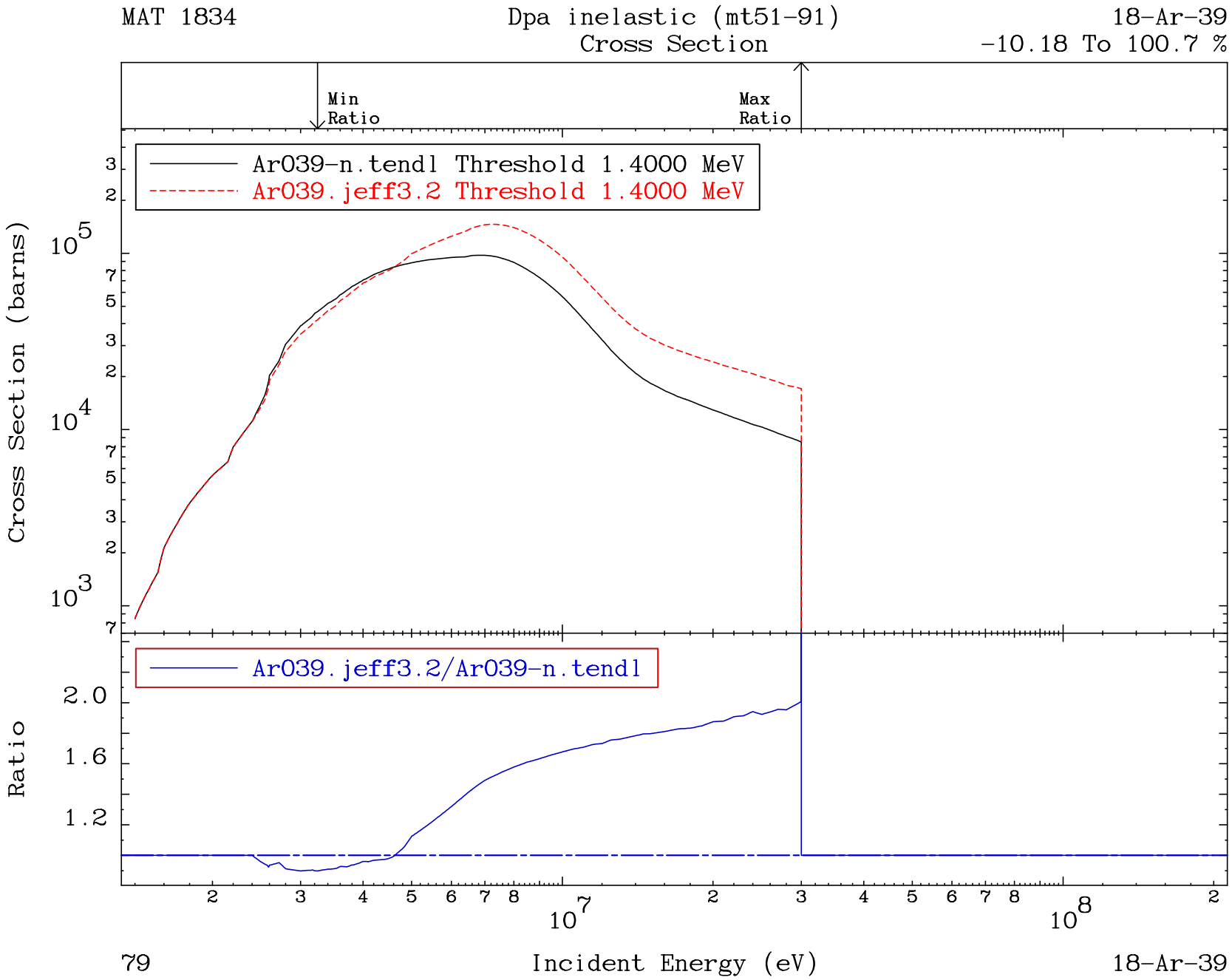

MAT 1834
Kerma capture (mt102)
Cross Section
18-Ar-39
-100.0 To 588.7 %
Max Ratio
Min Ratio
Ar039-n.tendl
Ar039.jeff3.2
Cross Section (barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
74
18-Ar-39

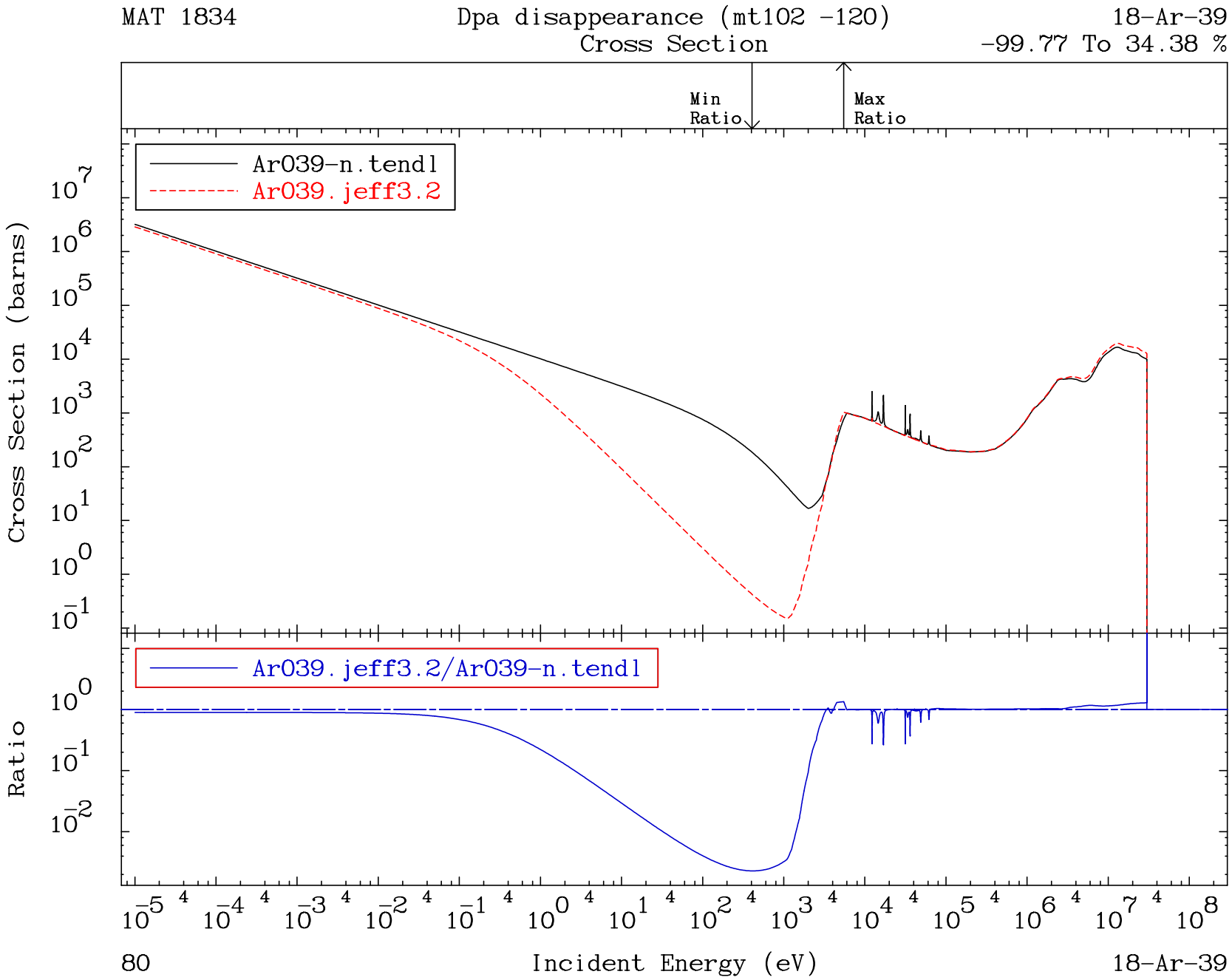

MAT 1834
Total photon (eV-barns)
Cross Section
18-Ar-39
-100.0 To 588.7 %
Max Ratio
Min Ratio
Ar039-n.tendl
Ar039.jeff3.2
Cross Section (barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
75
18-Ar-39

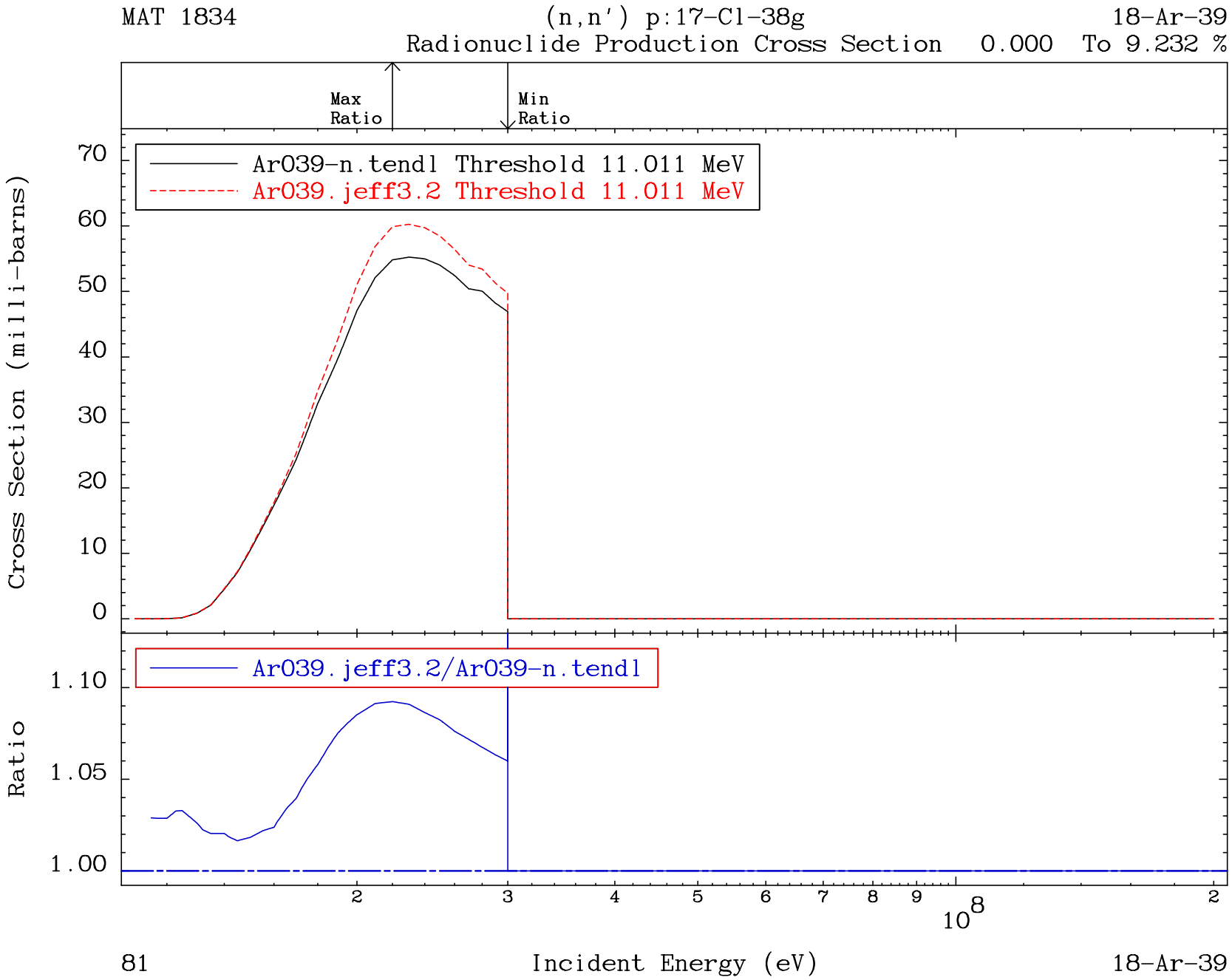

MAT 1834
Total kinematic kerma (high limit)
Cross Section
18-Ar-39
-99.91 To 598.9 %
Max Ratio
Min Ratio
Ar039-n.tendl
Ar039.jeff3.2
Cross Section (barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
76
18-Ar-39

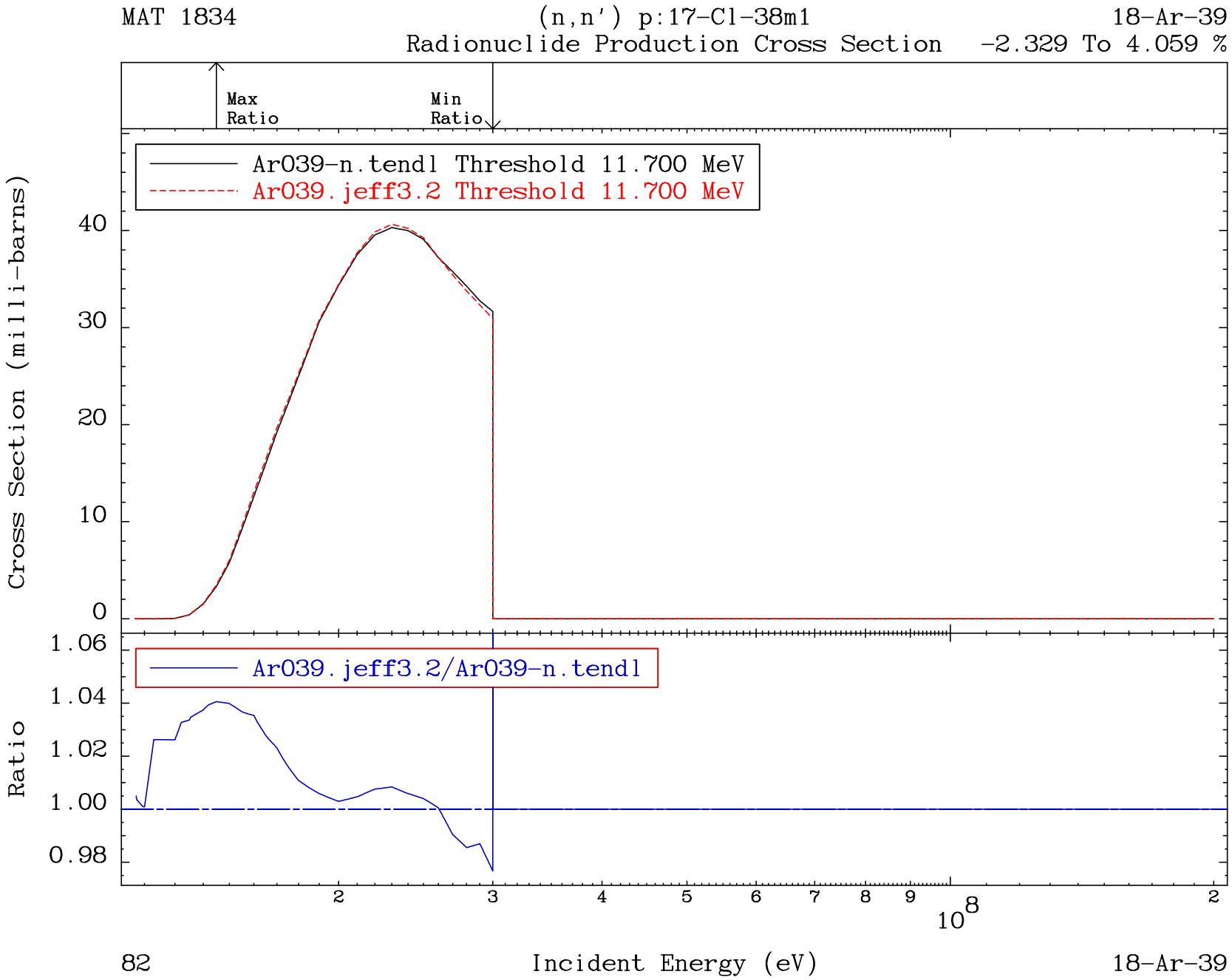

MAT 1834
Dpa total (eV-barns)
Cross Section
18-Ar-39
-99.74 To 9999. %
Min Ratio
Max Ratio
Ar039-n.tendl
Ar039.jeff3.2
Cross Section (barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
77
18-Ar-39

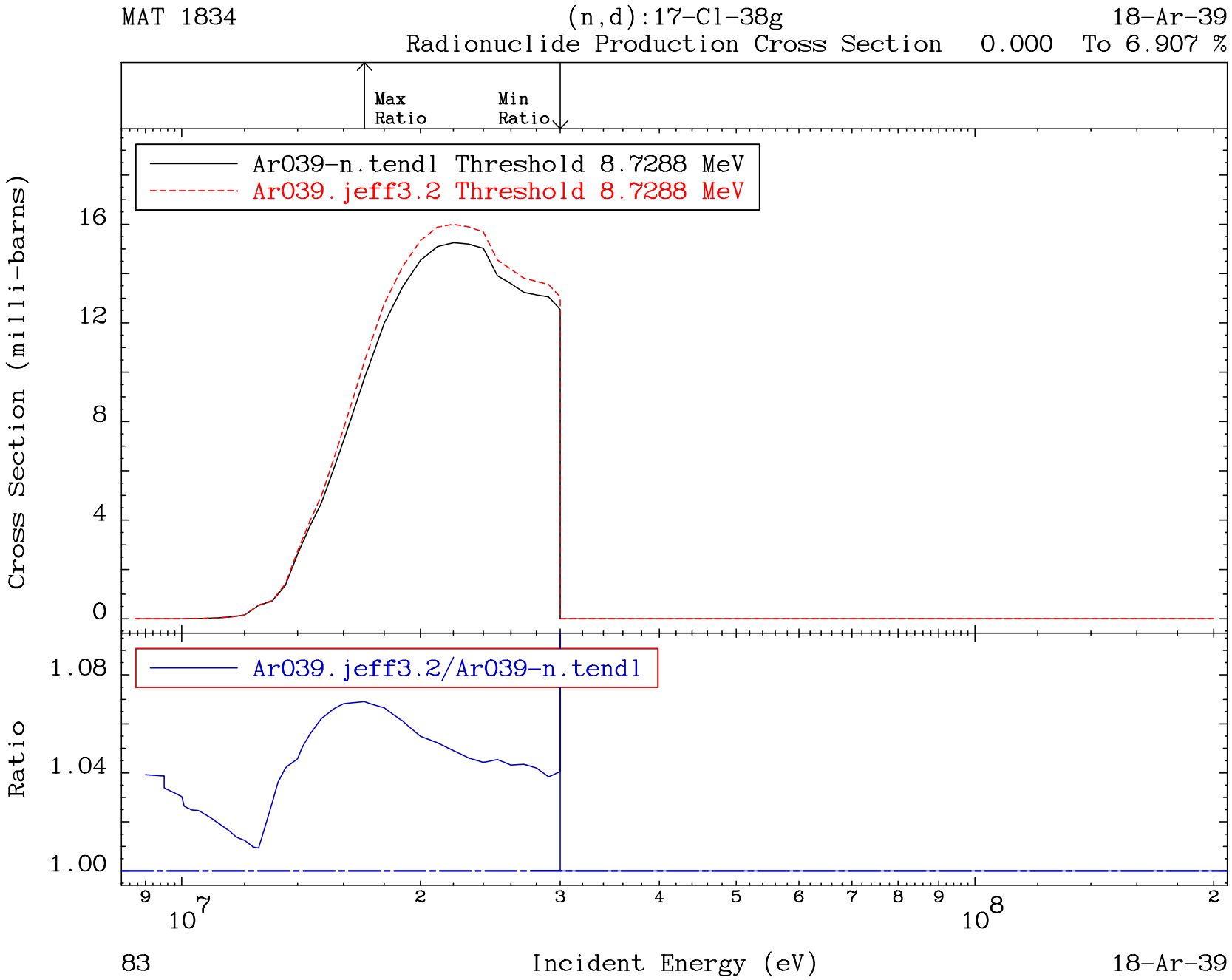

MAT 1834
Dpa elastic (mt2)
Cross Section
18-Ar-39
-84.64 To 9999. %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 237.50 eV
Ar039.jeff3.2 Threshold 237.50 eV
Cross Section (barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
78
18-Ar-39

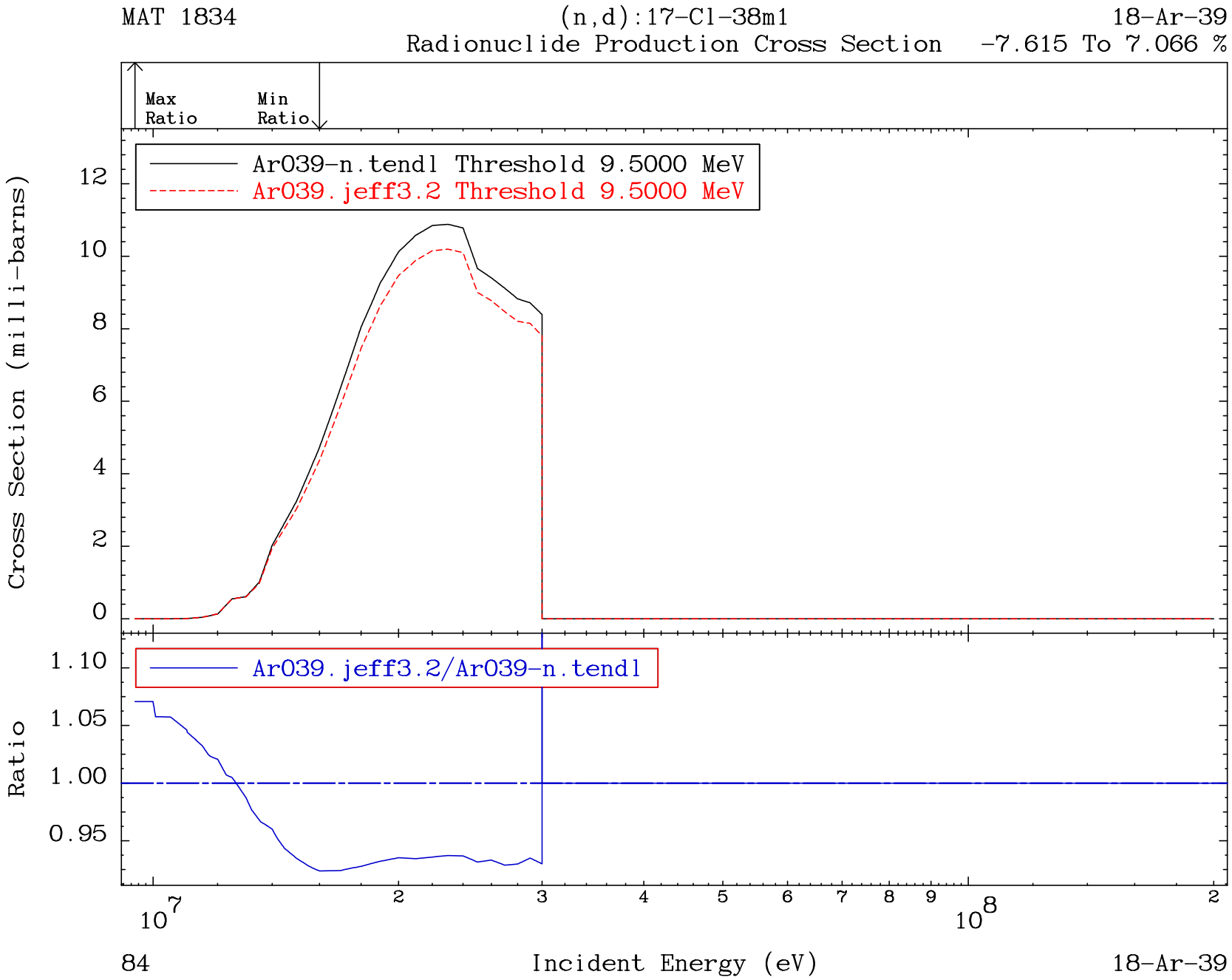

MAT 1834
Dpa inelastic (mt51-91)
Cross Section
18-Ar-39
-10.18 To 100.7 %
Min Ratio
Max Ratio
Ar039-n.tendl Threshold 1.4000 MeV
Ar039.jeff3.2 Threshold 1.4000 MeV
Cross Section (barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
Incident Energy (eV)
79
18-Ar-39


MAT 1834
Dpa disappearance (mt102 -120)
Cross Section
18-Ar-39
-99.77 To 34.38 %
Min Ratio
Max Ratio
Ar039-n.tendl
Ar039.jeff3.2
Cross Section (barns)
Ar039.jeff3.2/Ar039-n.tendl
Ratio
80
Incident Energy (eV)
18-Ar-39


MAT 1834
(n,n') p:17-Cl-38g
18-Ar-39
Radionuclide Production Cross Section 0.000 To 9.232 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 11.011 MeV
Ar039.jeff3.2 Threshold 11.011 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
18-Ar-39


MAT 1834
(n,n') p:17-Cl-38m1
18-Ar-39
Radionuclide Production Cross Section -2.329 To 4.059 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 11.700 MeV
Ar039.jeff3.2 Threshold 11.700 MeV
Cross Section (milli-barns)
40
30
20
10
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.06
1.04
1.02
1.00
0.98
2
3
4
5
6
7
8
9
2
10^8
82
Incident Energy (eV)
18-Ar-39


MAT 1834
(n,d):17-Cl-38g
18-Ar-39
Radionuclide Production Cross Section 0.000 To 6.907 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 8.7288 MeV
Ar039.jeff3.2 Threshold 8.7288 MeV
Cross Section (milli-barns)
16
12
8
4
0
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.08
1.04
1.00
9
10^7
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
18-Ar-39


MAT 1834
(n,d):17-Cl-38m1
18-Ar-39
Radionuclide Production Cross Section -7.615 To 7.066 %
Max Ratio
Min Ratio
Ar039-n.tendl Threshold 9.5000 MeV
Ar039.jeff3.2 Threshold 9.5000 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
Ar039.jeff3.2/Ar039-n.tendl
Ratio
1.10
1.05
1.00
0.95
10^7
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
18-Ar-39