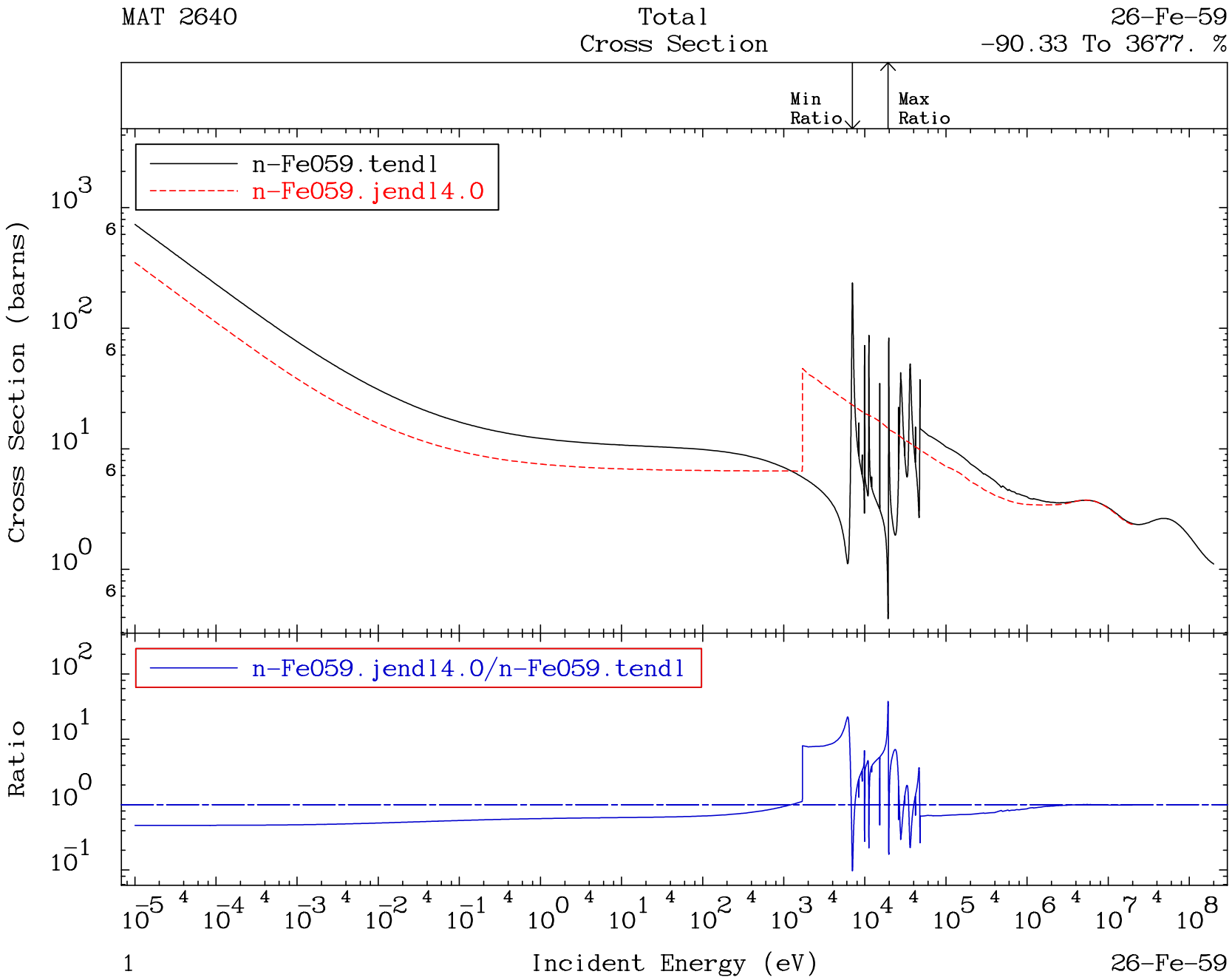
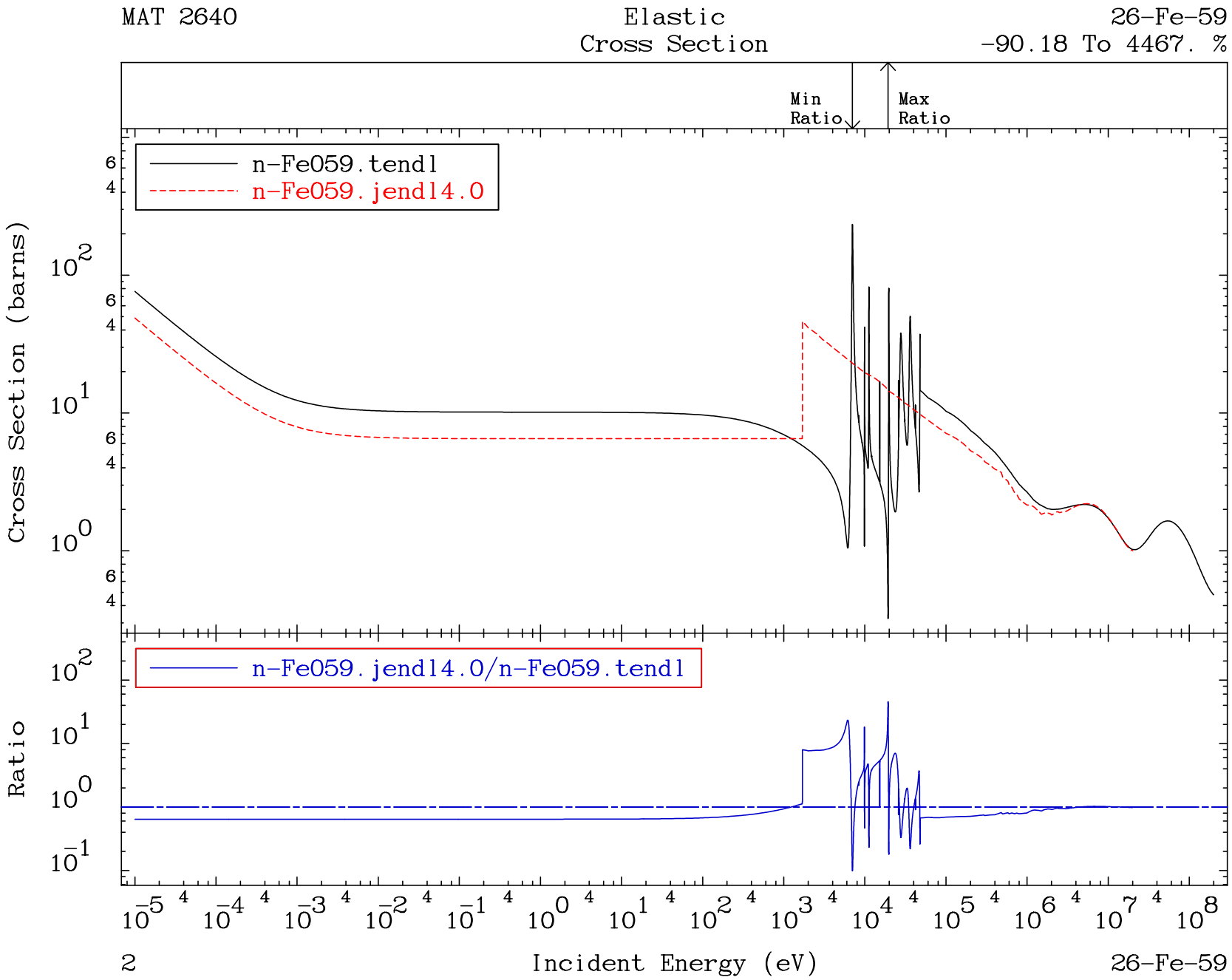
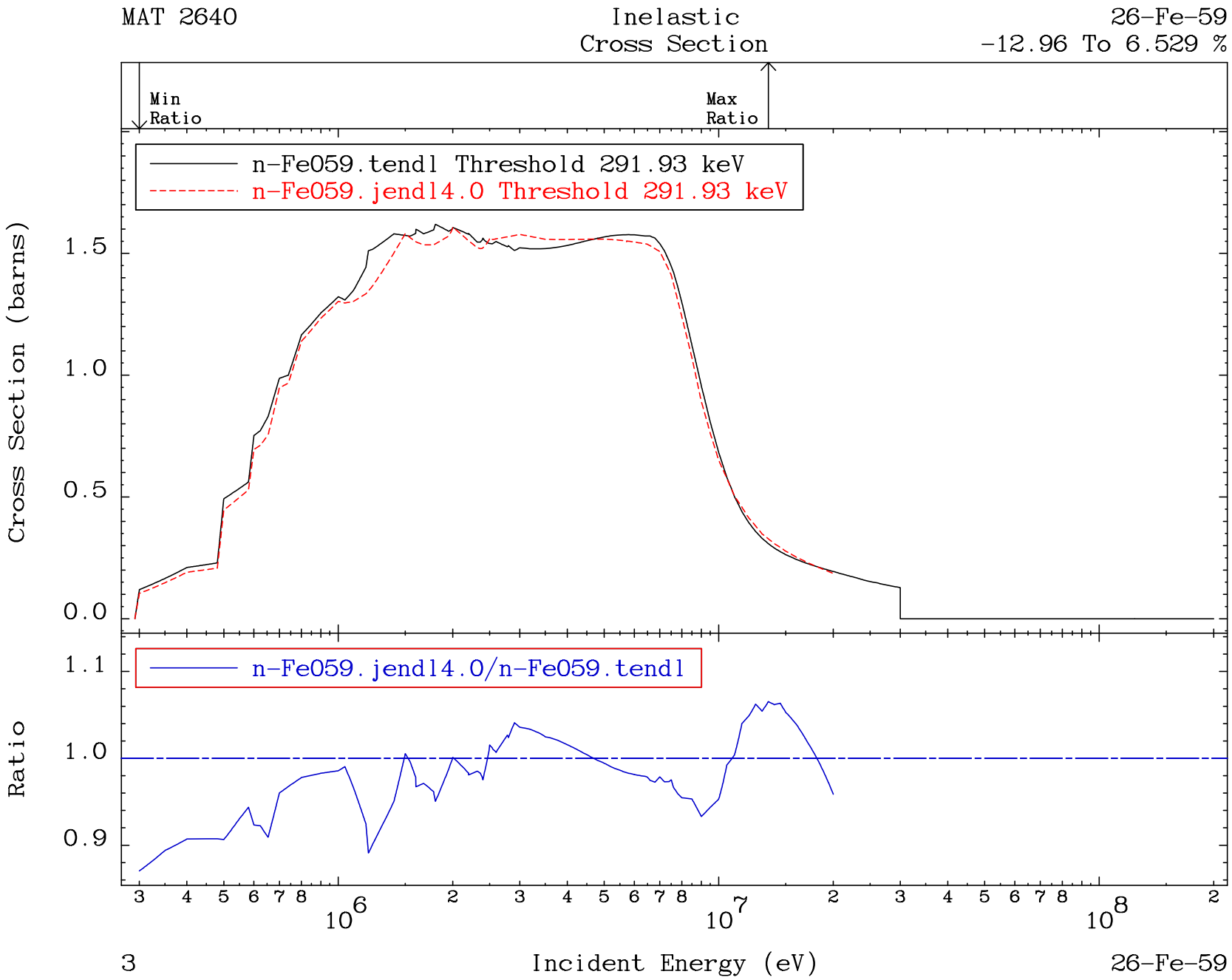
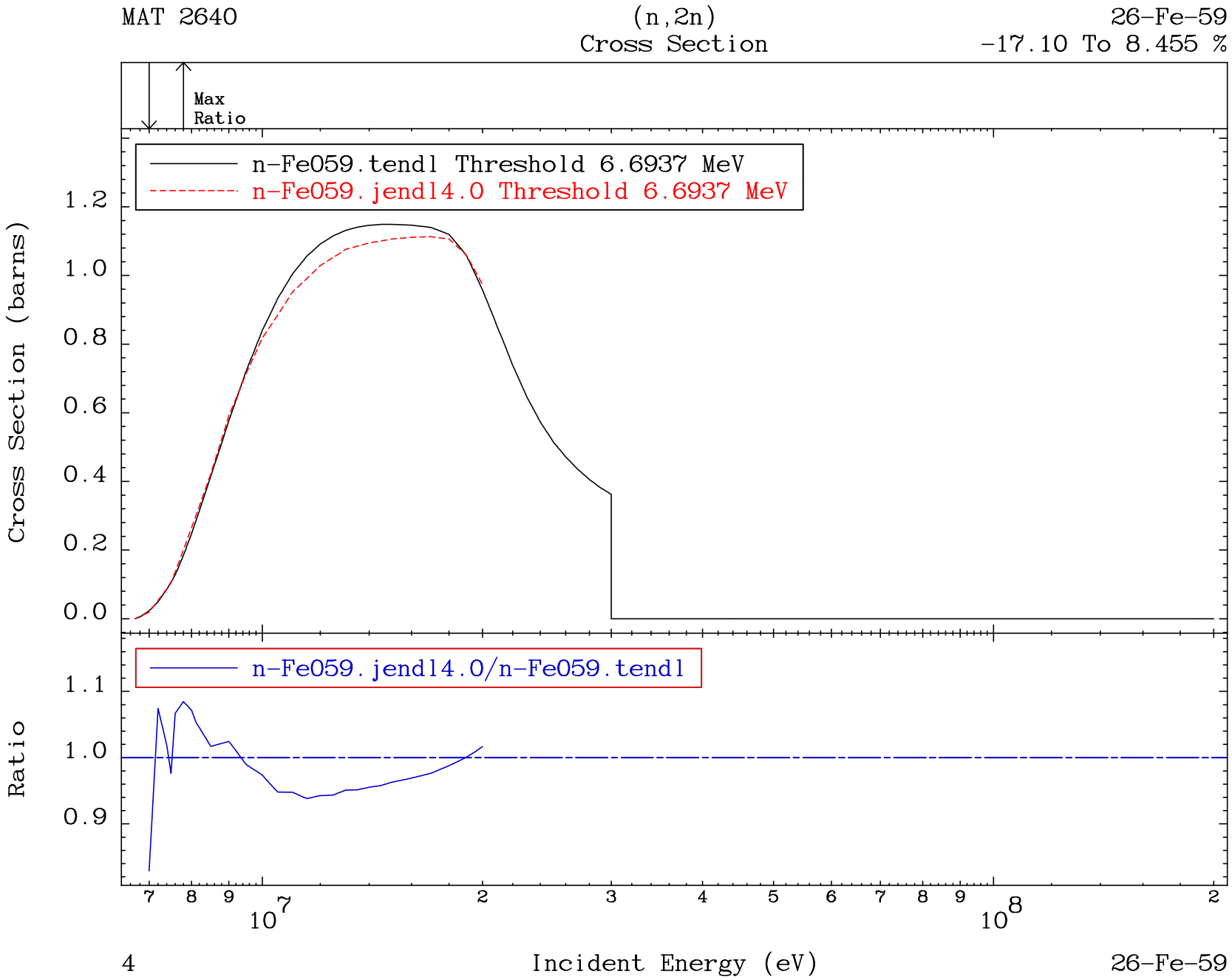
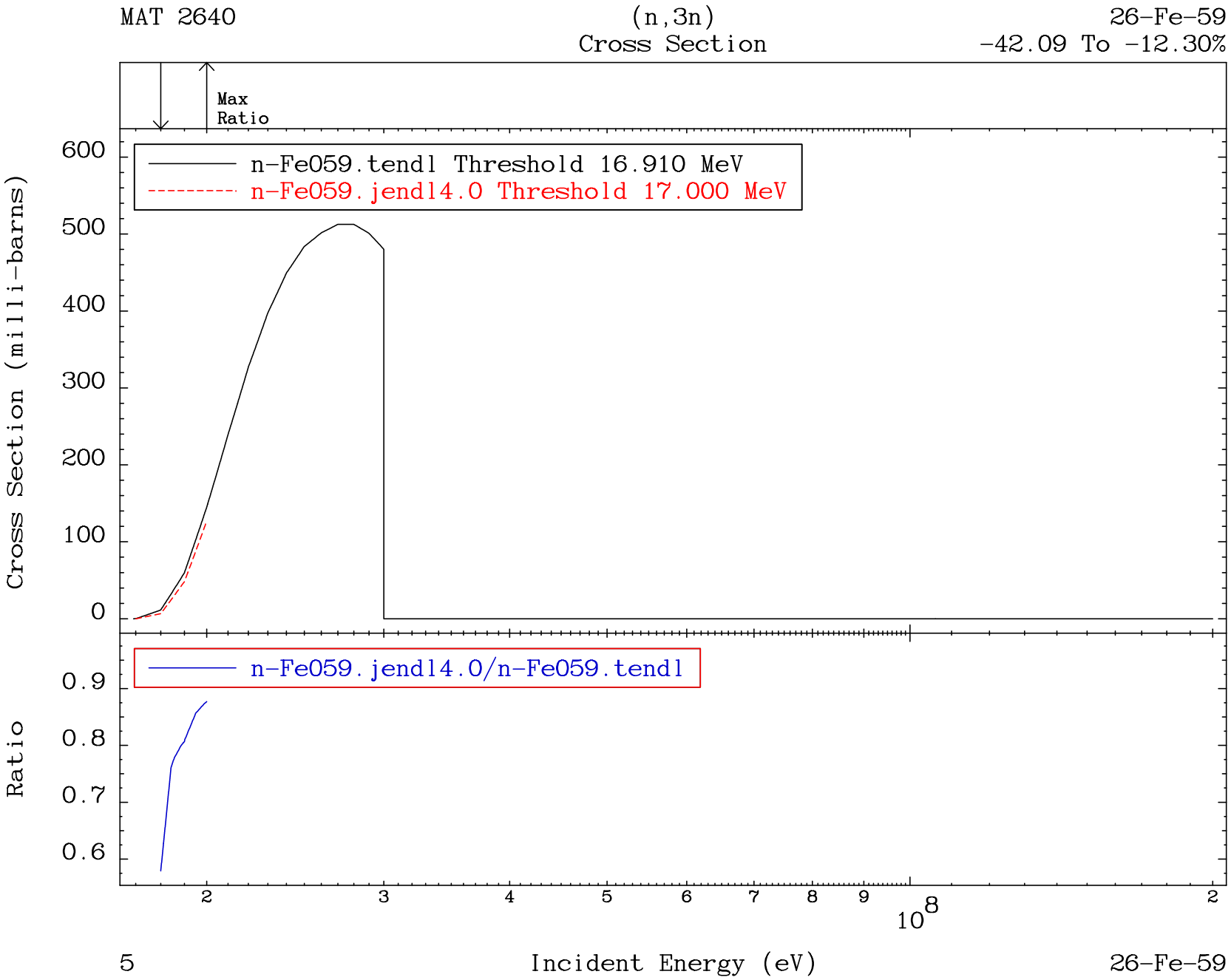
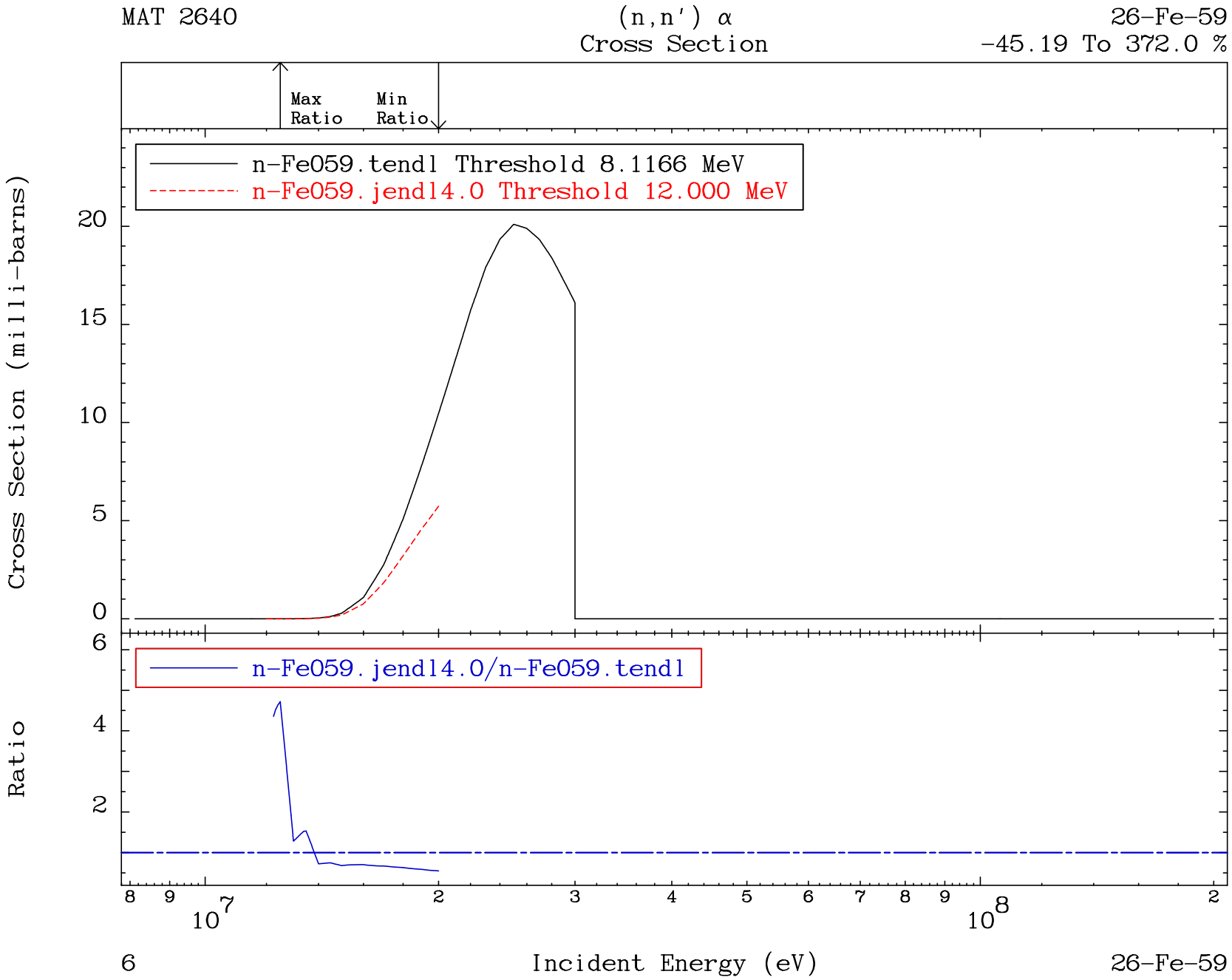

MAT 2640
Total
Cross Section
26-Fe-59
-90.33 To 3677. %
Min Ratio
Max Ratio
n-Fe059.tendl
n-Fe059.jendl4.0
Cross Section (barns)
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
Incident Energy (eV)
1
26-Fe-59

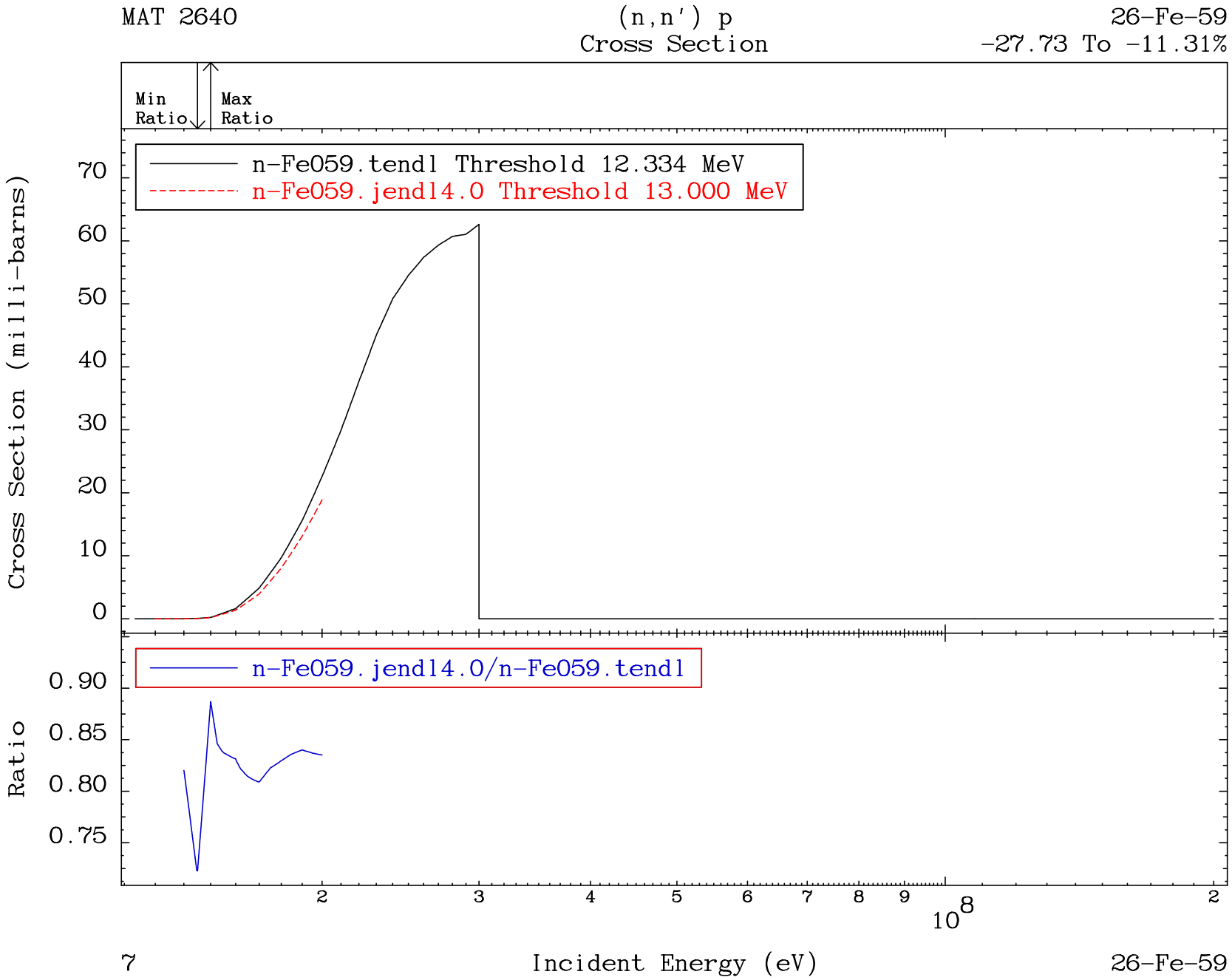

MAT 2640
Elastic
Cross Section
26-Fe-59
-90.18 To 4467. %
Min Ratio
Max Ratio
n-Fe059.tendl
n-Fe059.jendl4.0
Cross Section (barns)
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
Incident Energy (eV)
2
26-Fe-59

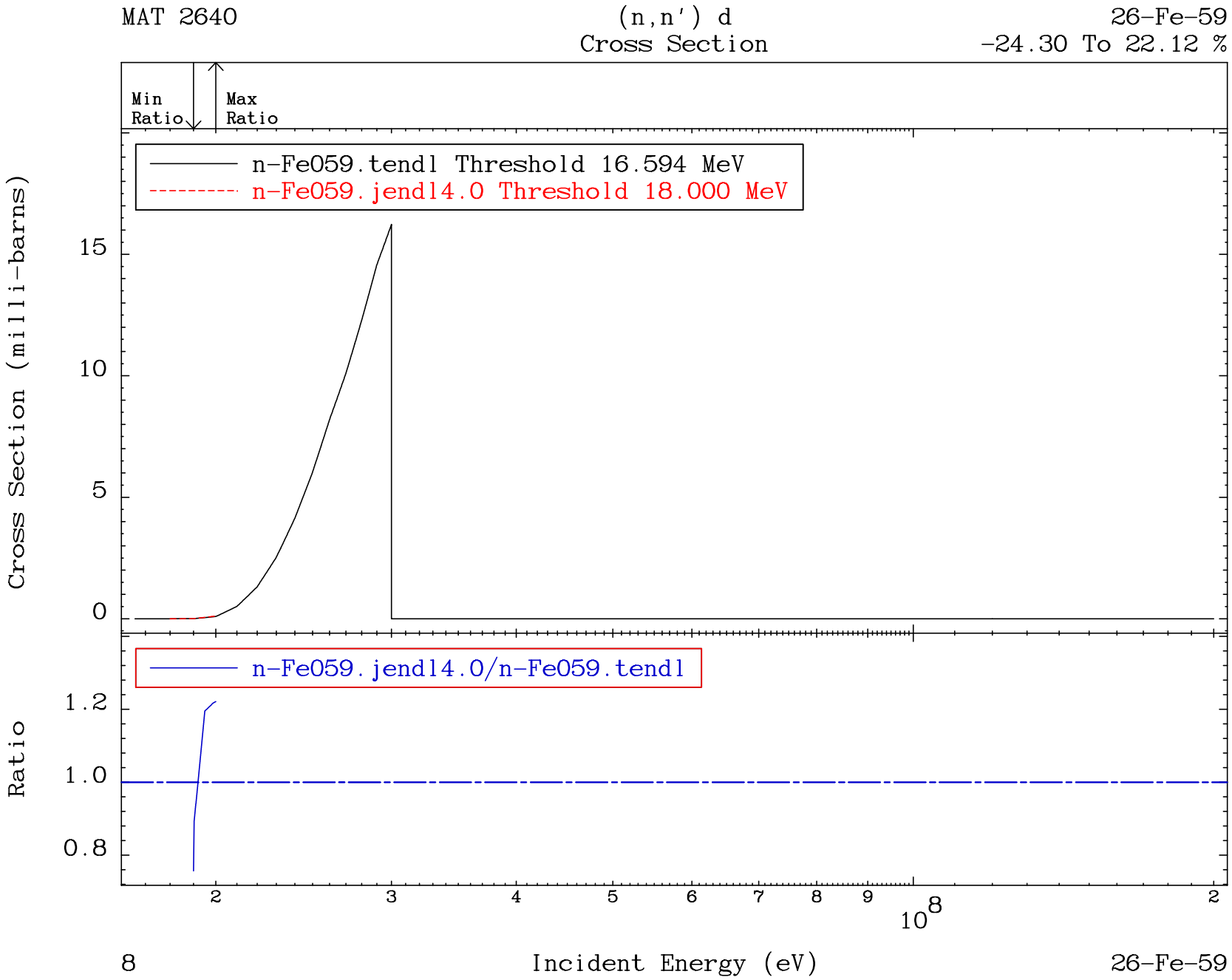

MAT 2640
Inelastic
Cross Section
26-Fe-59
-12.96 To 6.529 %
Min
Ratio
Max
Ratio
n-Fe059.tendl Threshold 291.93 keV
n-Fe059.jendl4.0 Threshold 291.93 keV
Cross Section (barns)
1.5
1.0
0.5
0.0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
1.1
1.0
0.9
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
3
Incident Energy (eV)
26-Fe-59

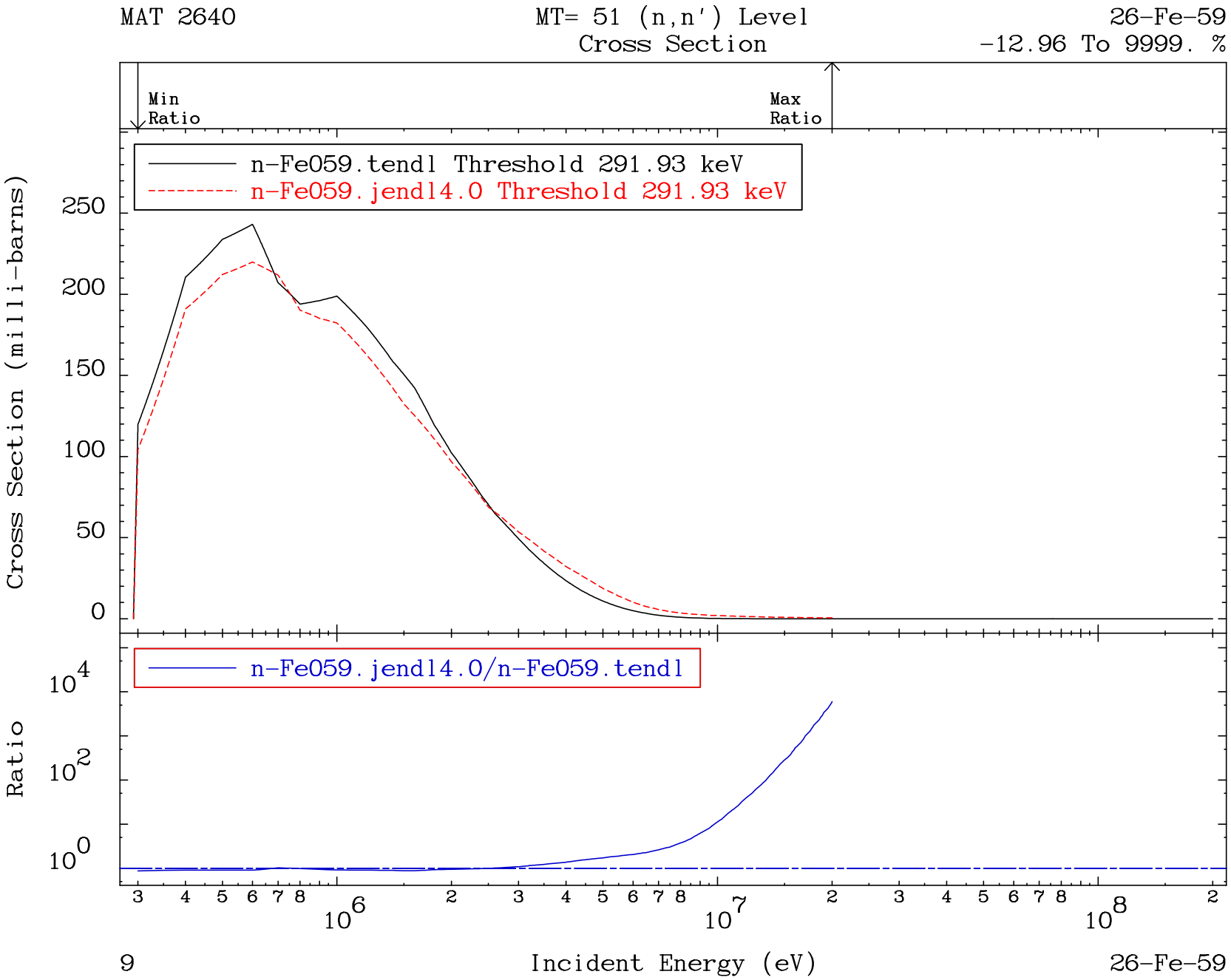

MAT 2640
(n,2n)
Cross Section
26-Fe-59
-17.10 To 8.455 %
Max
Ratio
n-Fe059.tendl Threshold 6.6937 MeV
n-Fe059.jendl4.0 Threshold 6.6937 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
1.1
1.0
0.9
7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
4
Incident Energy (eV)
26-Fe-59

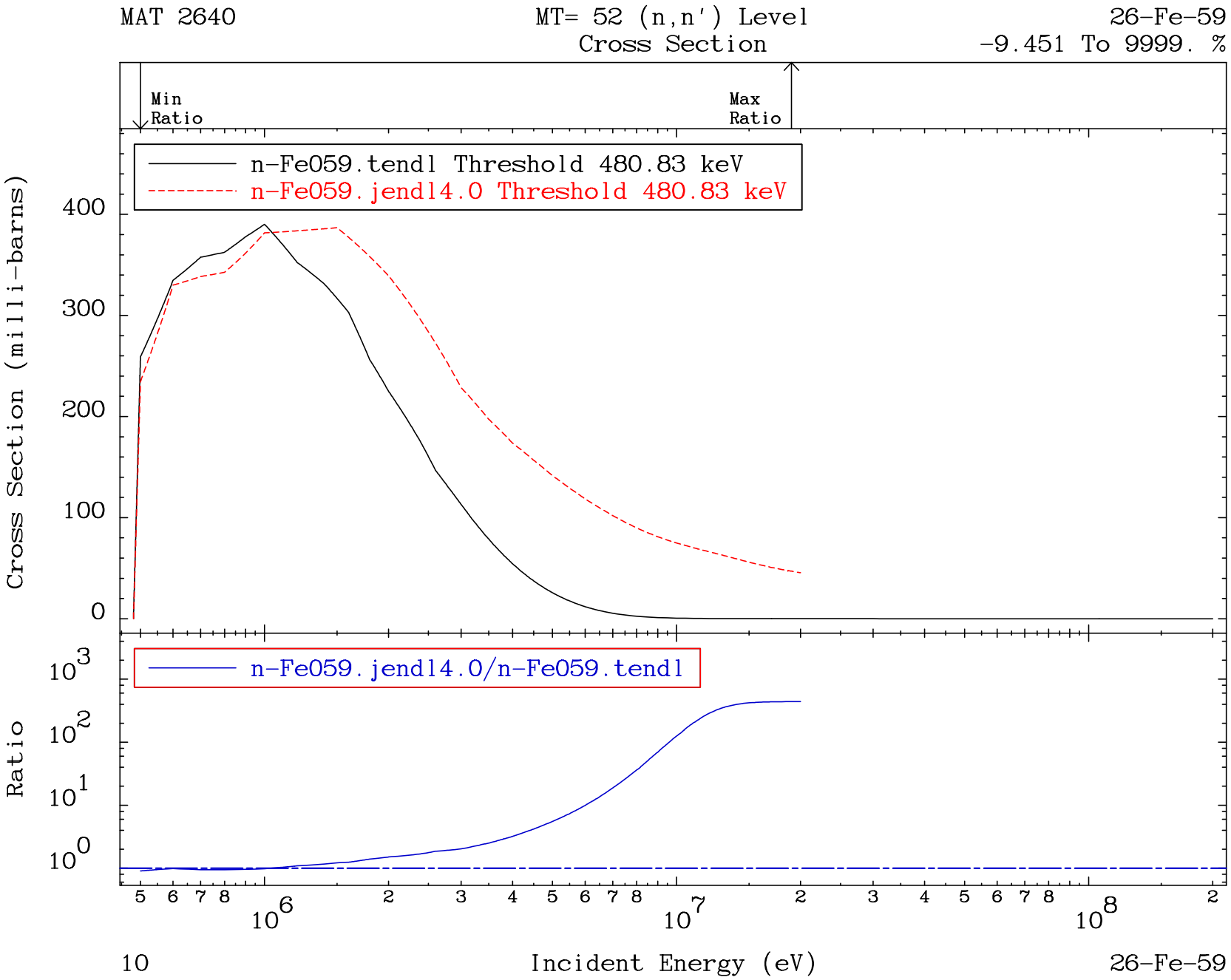

MAT 2640
(n,3n)
Cross Section
26-Fe-59
-42.09 To -12.30%
Max
Ratio
n-Fe059.tendl Threshold 16.910 MeV
n-Fe059.jendl4.0 Threshold 17.000 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
0.9
0.8
0.7
0.6
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
26-Fe-59

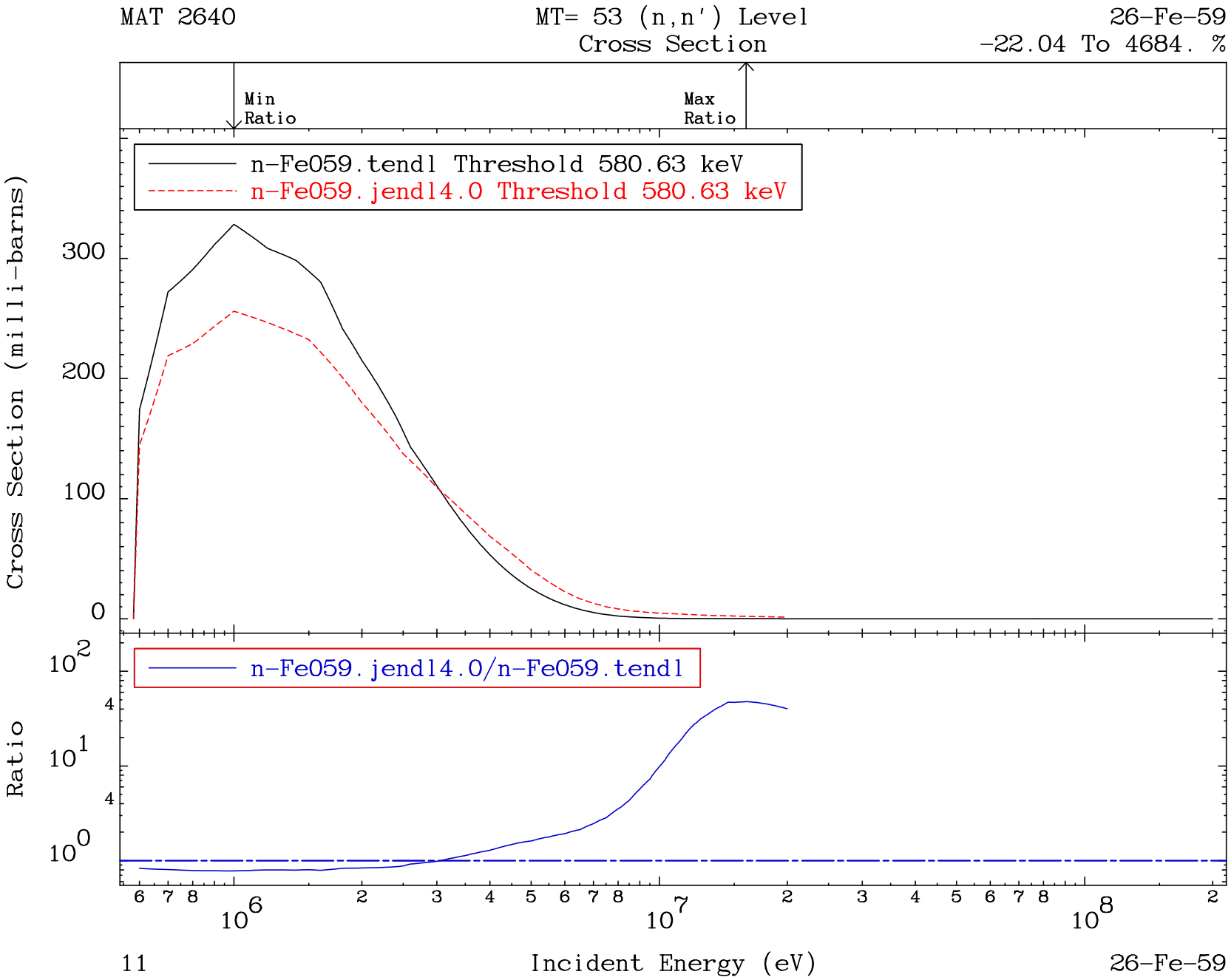

MAT 2640
(n,n') α
Cross Section
26-Fe-59
-45.19 To 372.0 %
Max Ratio
Min Ratio
n-Fe059.tendl Threshold 8.1166 MeV
n-Fe059.jendl4.0 Threshold 12.000 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
6
4
2
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
26-Fe-59

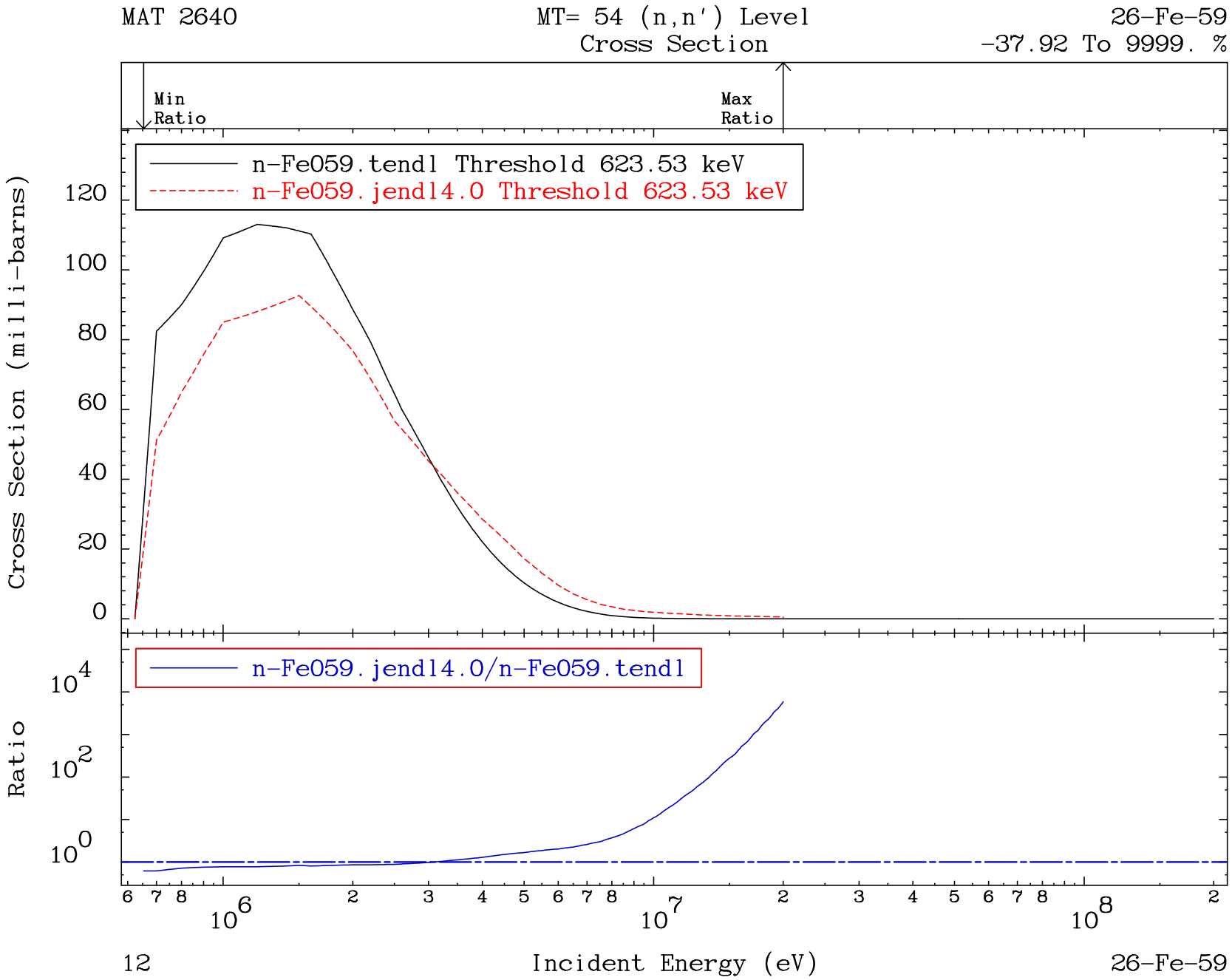

MAT 2640
(n,n') p
Cross Section
26-Fe-59
-27.73 To -11.31%
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 12.334 MeV
n-Fe059.jendl4.0 Threshold 13.000 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
0.90
0.85
0.80
0.75
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
26-Fe-59

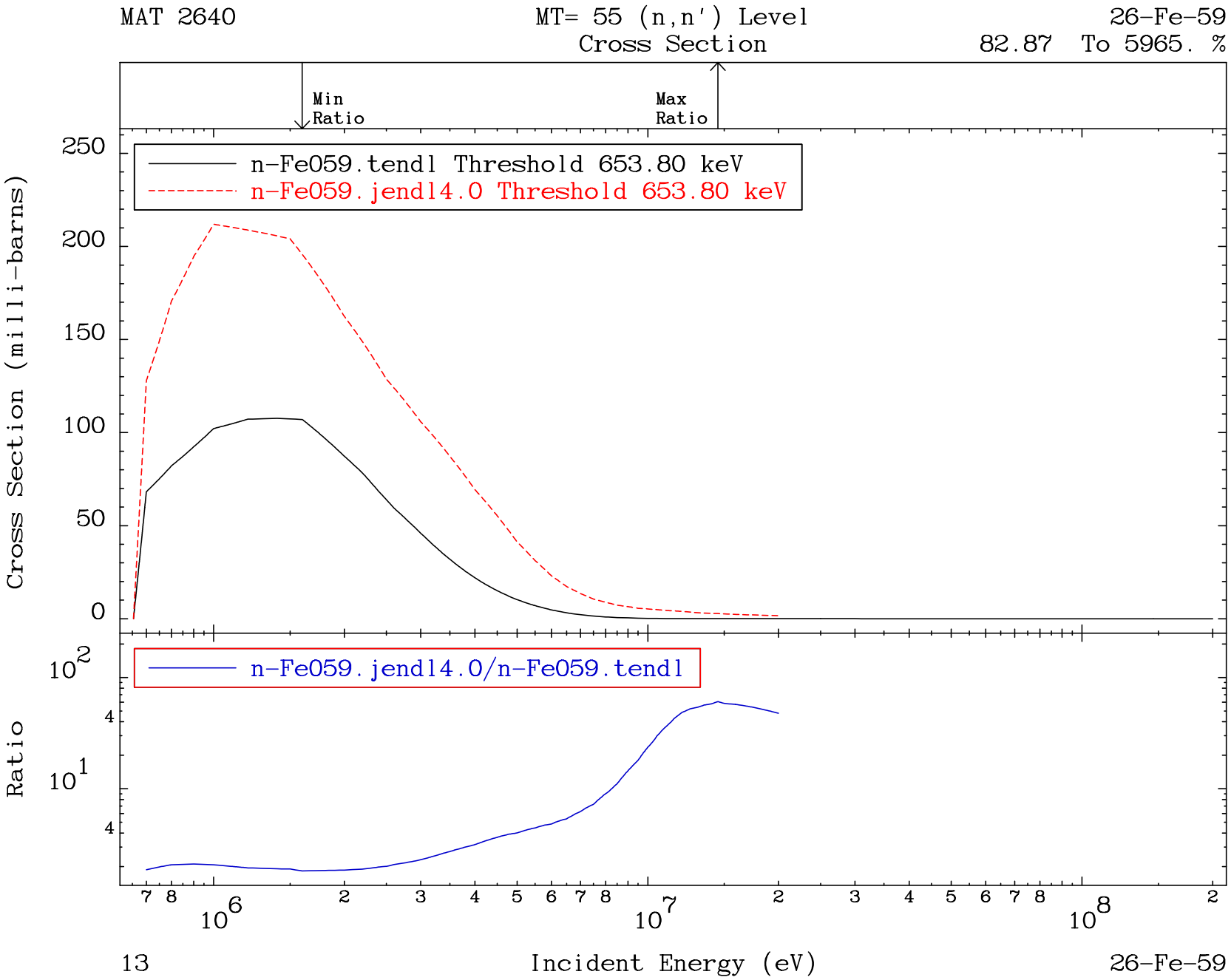

MAT 2640
(n,n') d
Cross Section
26-Fe-59
-24.30 To 22.12 %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 16.594 MeV
n-Fe059.jendl4.0 Threshold 18.000 MeV
Cross Section (milli-barns)
15
10
5
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
1.2
1.0
0.8
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
26-Fe-59

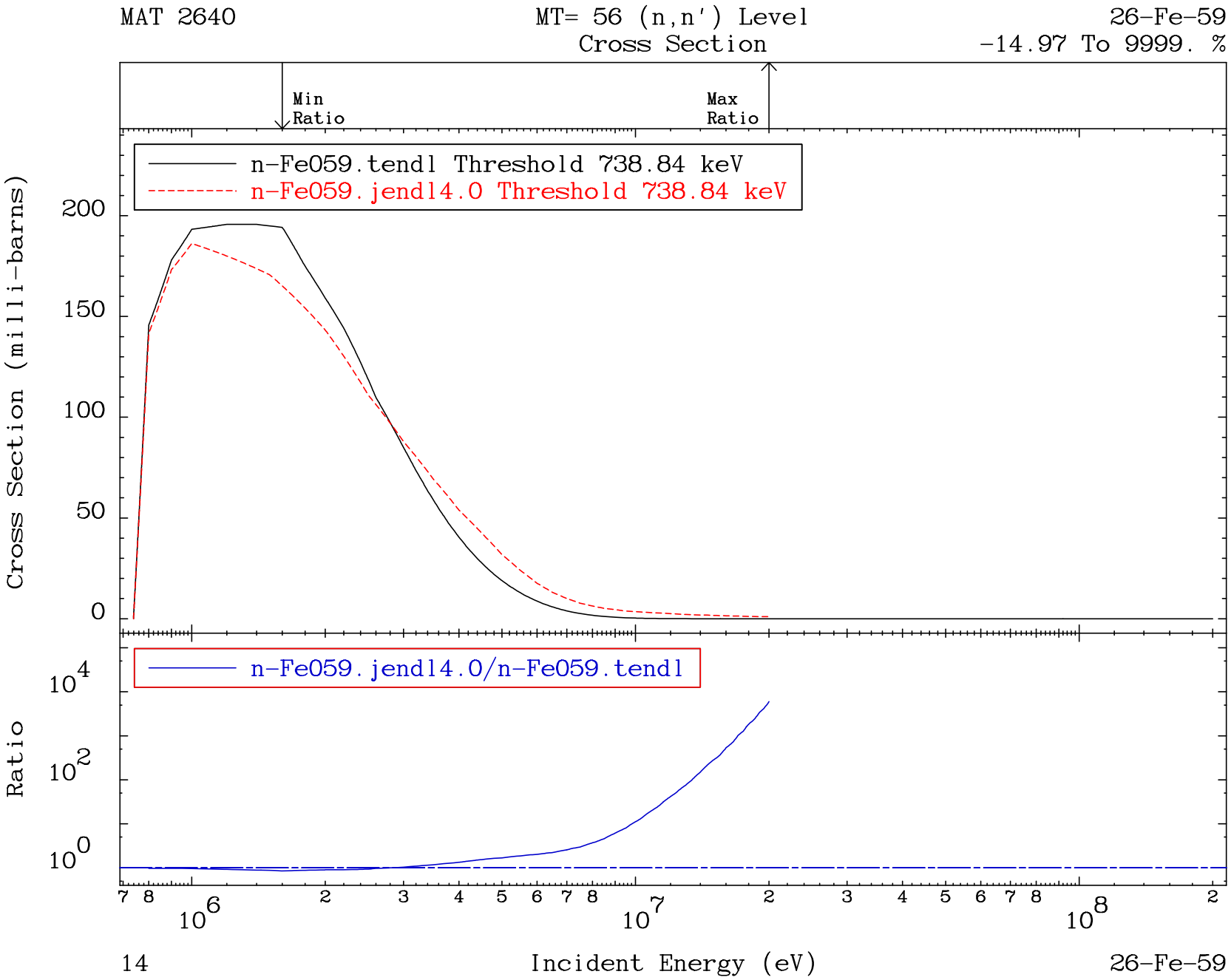

MAT 2640
MT= 51 (n,n') Level
Cross Section
26-Fe-59
-12.96 To 9999. %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 291.93 keV
n-Fe059.jendl4.0 Threshold 291.93 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^4
10^2
10^0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
9
Incident Energy (eV)
26-Fe-59

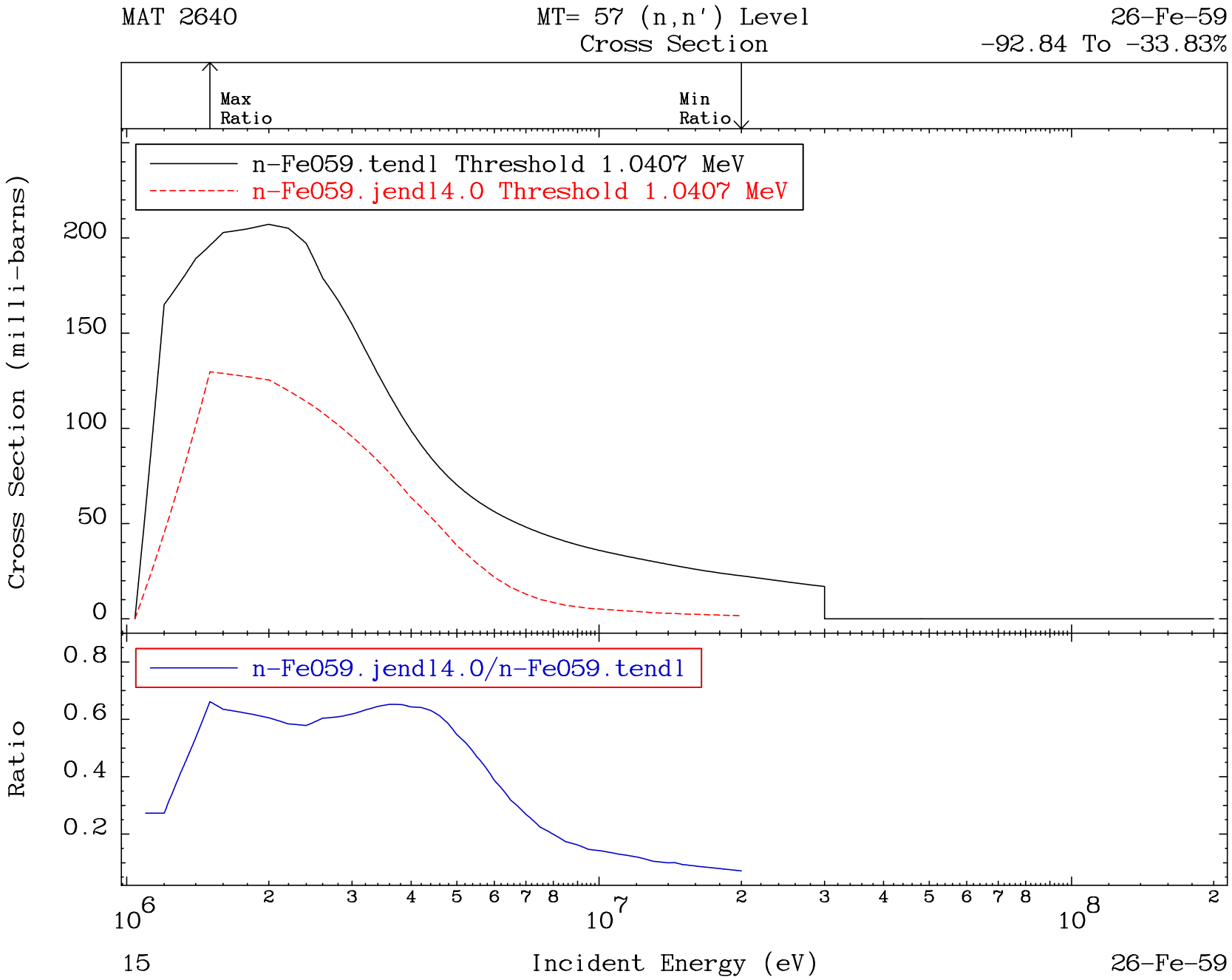

MAT 2640
MT= 52 (n,n') Level
Cross Section
26-Fe-59
-9.451 To 9999. %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 480.83 keV
n-Fe059.jendl4.0 Threshold 480.83 keV
Cross Section (milli-barns)
400
300
200
100
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^3
10^2
10^1
10^0
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
10
Incident Energy (eV)
26-Fe-59

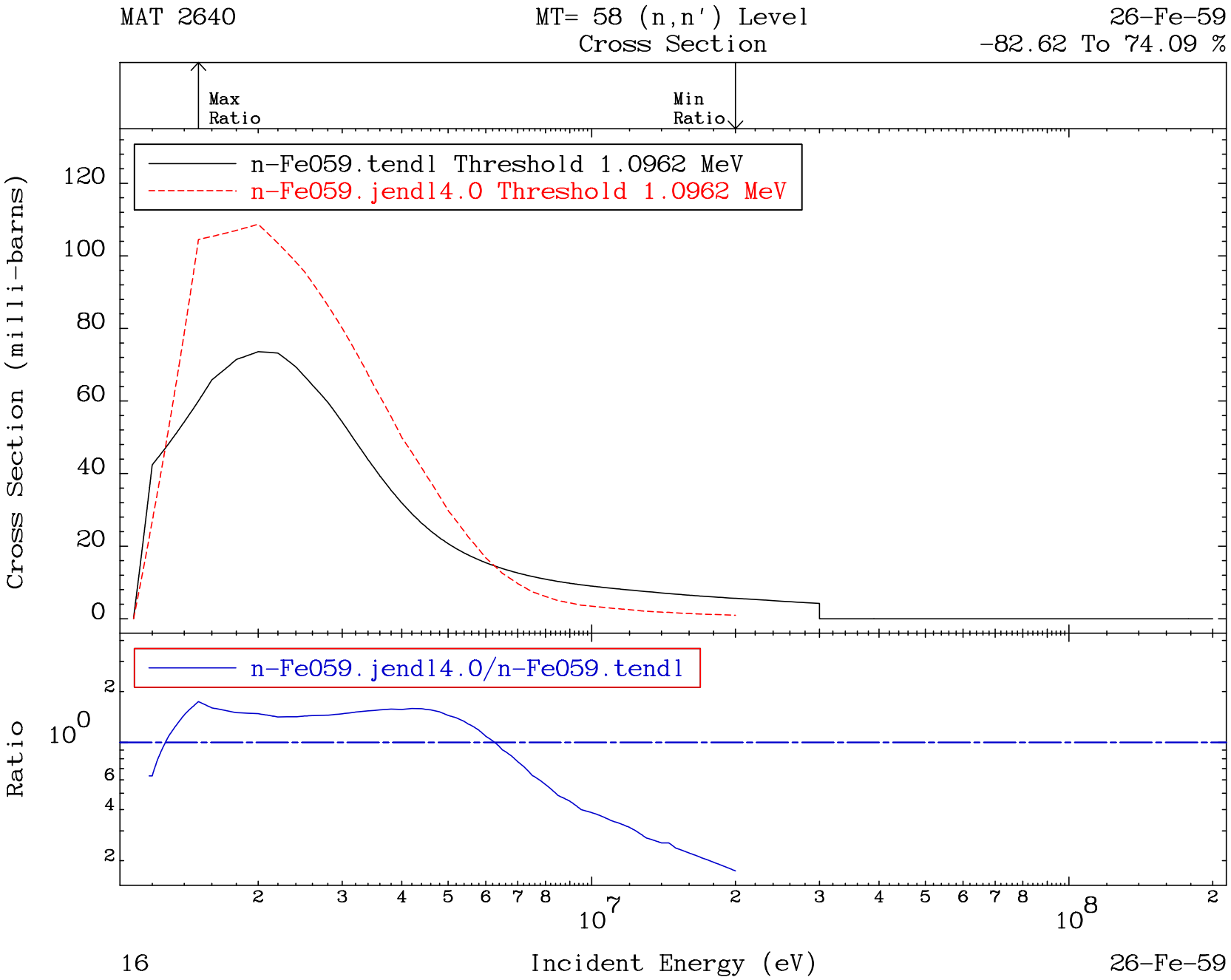

MAT 2640
MT= 53 (n,n') Level
Cross Section
26-Fe-59
-22.04 To 4684. %
Min
Ratio
Max
Ratio
n-Fe059.tendl Threshold 580.63 keV
n-Fe059.jendl4.0 Threshold 580.63 keV
Cross Section (milli-barns)
300
200
100
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^2
4
10^1
4
10^0
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
26-Fe-59

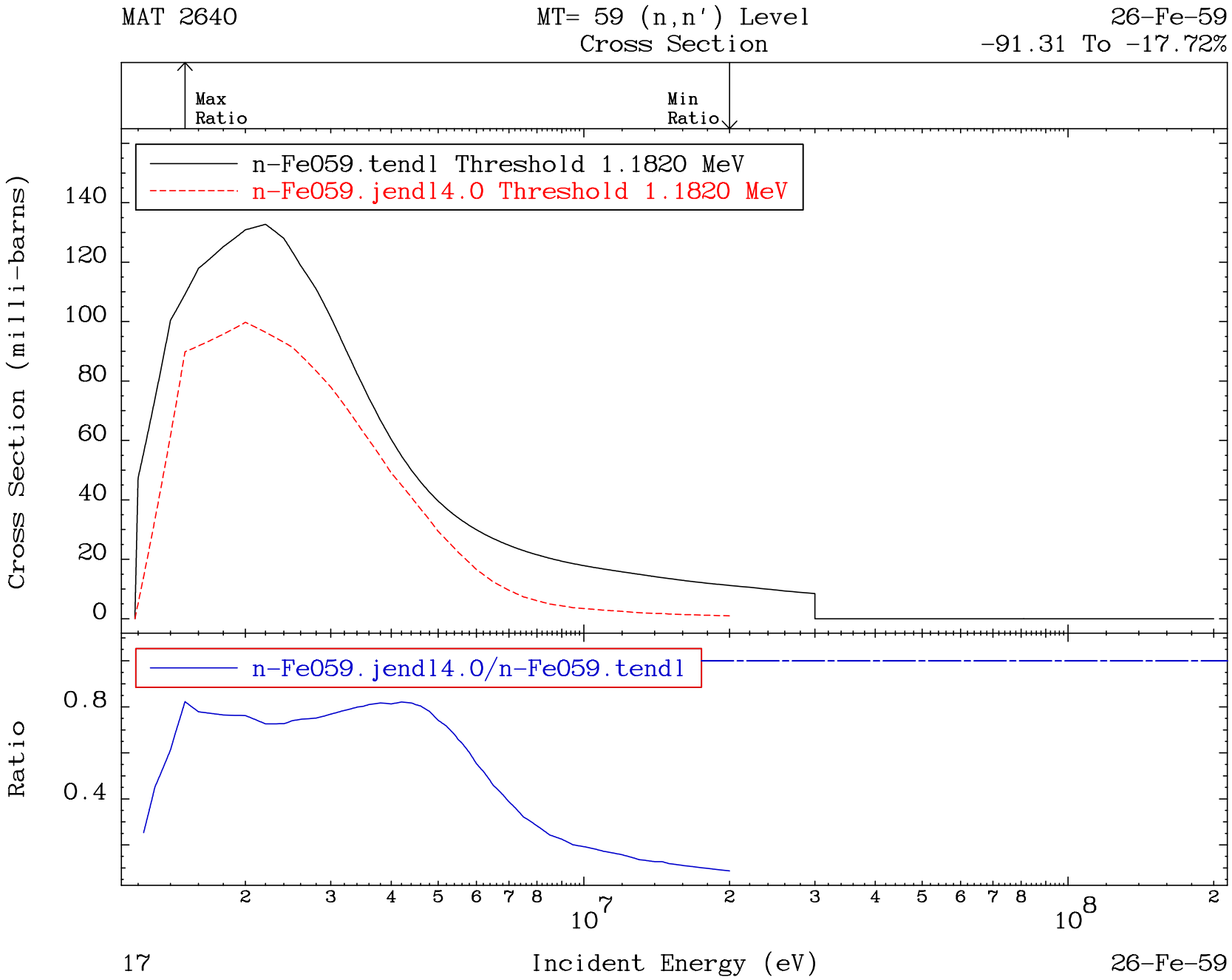

MAT 2640
MT= 54 (n,n') Level
Cross Section
26-Fe-59
-37.92 To 9999. %
Min
Ratio
Max
Ratio
n-Fe059.tendl Threshold 623.53 keV
n-Fe059.jendl4.0 Threshold 623.53 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^4
10^2
10^0
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
12
Incident Energy (eV)
26-Fe-59

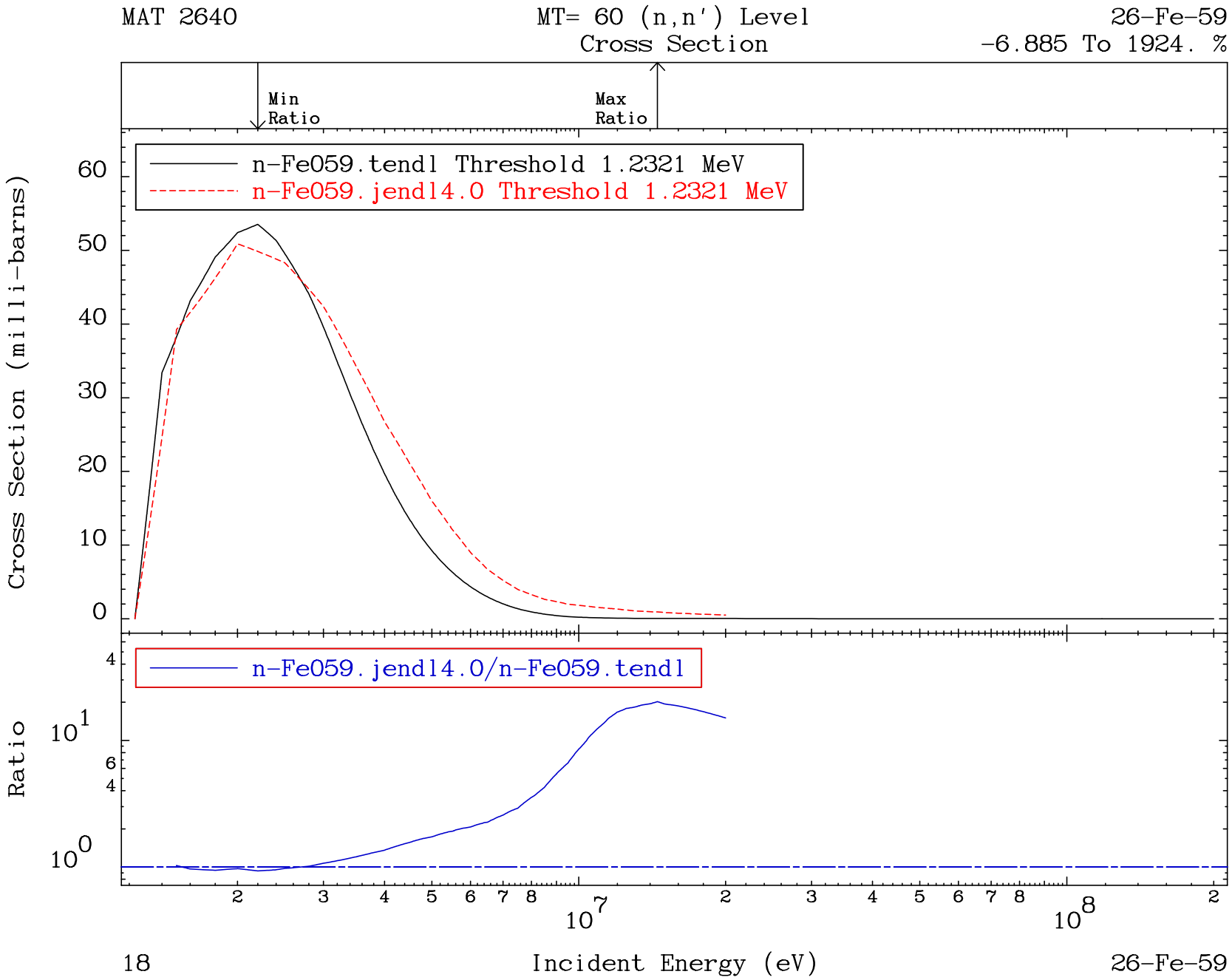

MAT 2640
MT= 55 (n,n') Level
Cross Section
26-Fe-59
82.87 To 5965. %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 653.80 keV
n-Fe059.jendl4.0 Threshold 653.80 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^2
10^1
4
4
7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
26-Fe-59

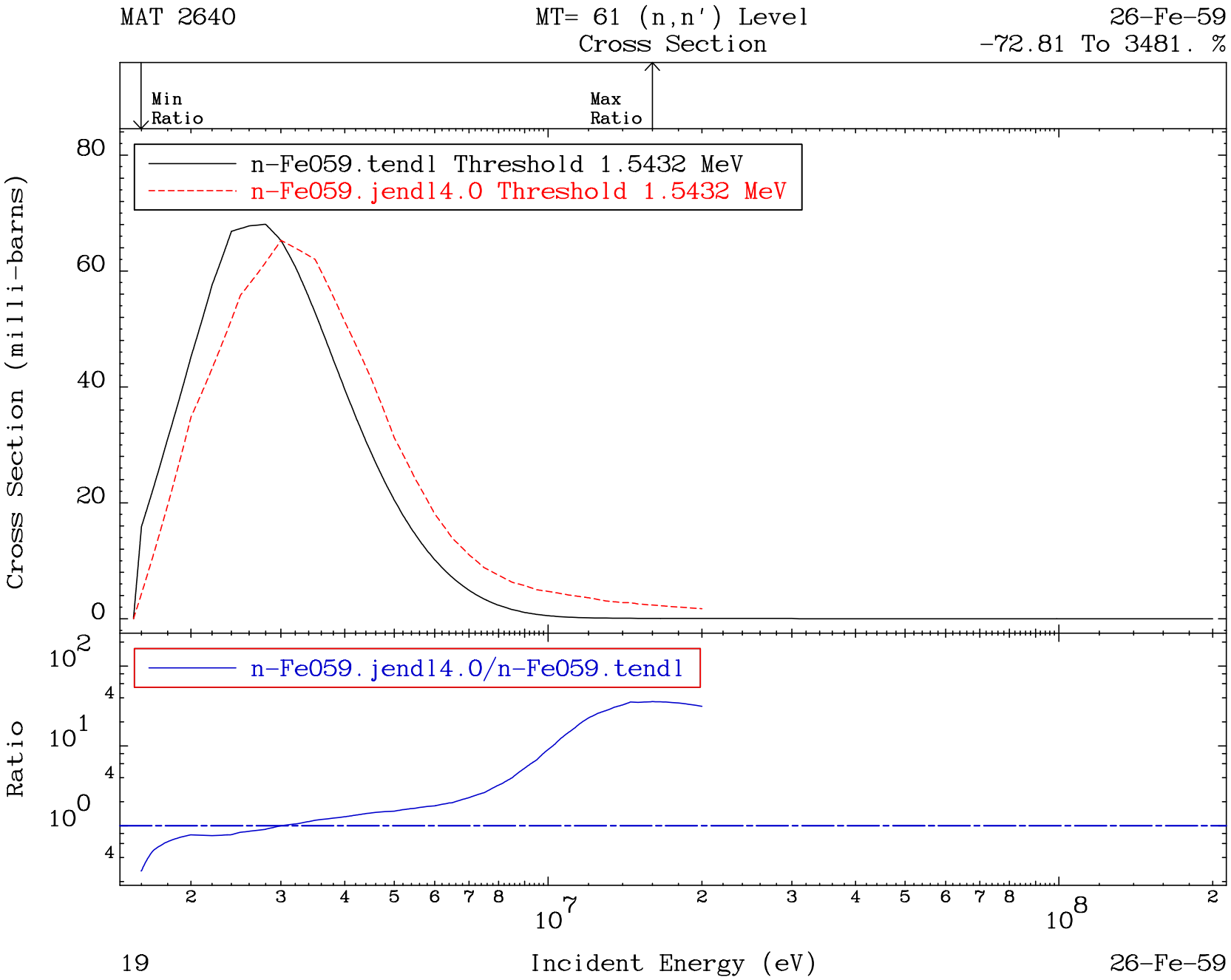

MAT 2640
MT= 56 (n,n') Level
Cross Section
26-Fe-59
-14.97 To 9999. %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 738.84 keV
n-Fe059.jendl4.0 Threshold 738.84 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^4
10^2
10^0
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
14
Incident Energy (eV)
26-Fe-59

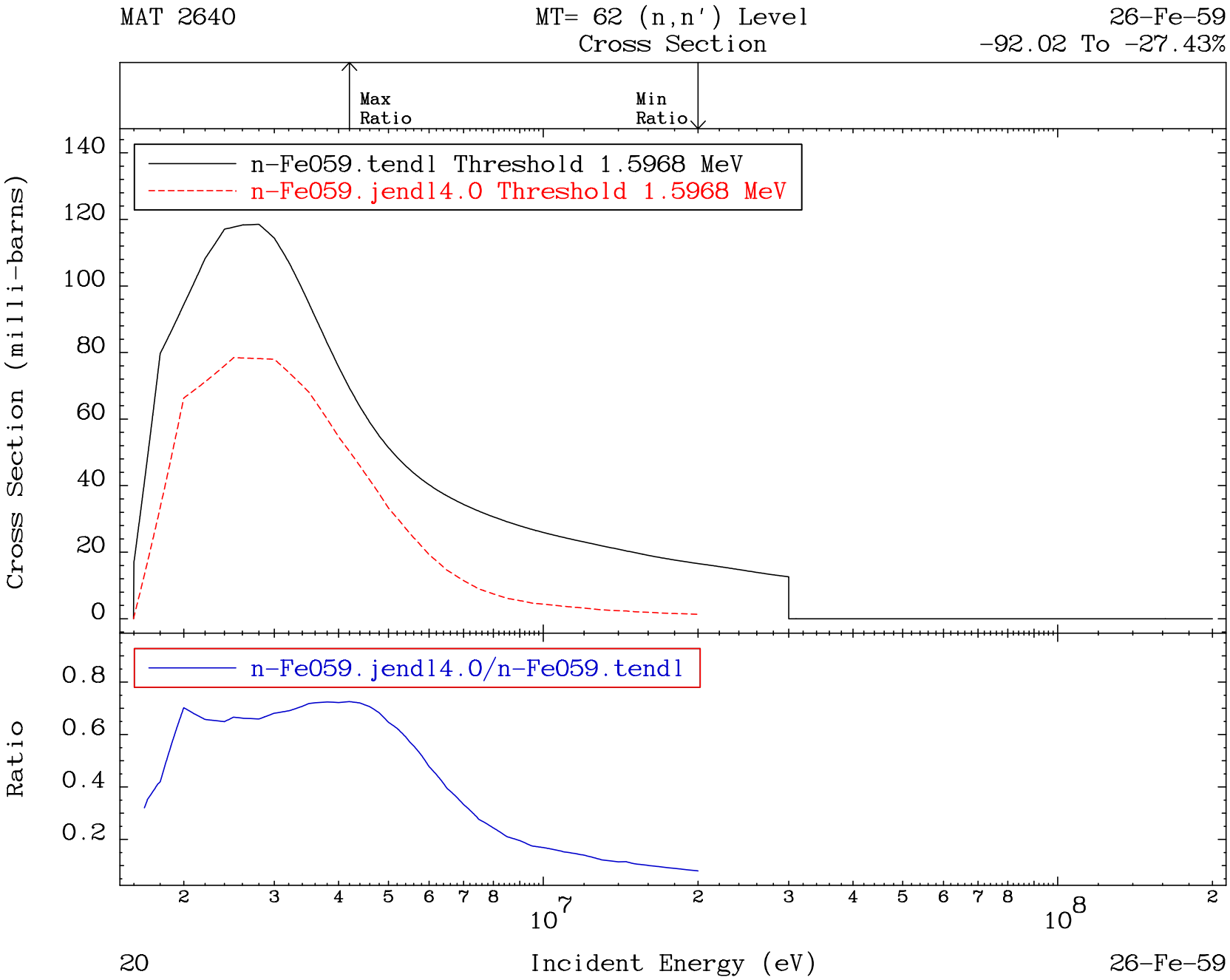

MAT 2640
MT= 57 (n,n') Level
Cross Section
26-Fe-59
-92.84 To -33.83%
Max
Ratio
Min
Ratio
n-Fe059.tendl Threshold 1.0407 MeV
n-Fe059.jendl4.0 Threshold 1.0407 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
0.8
0.6
0.4
0.2
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
15
Incident Energy (eV)
26-Fe-59

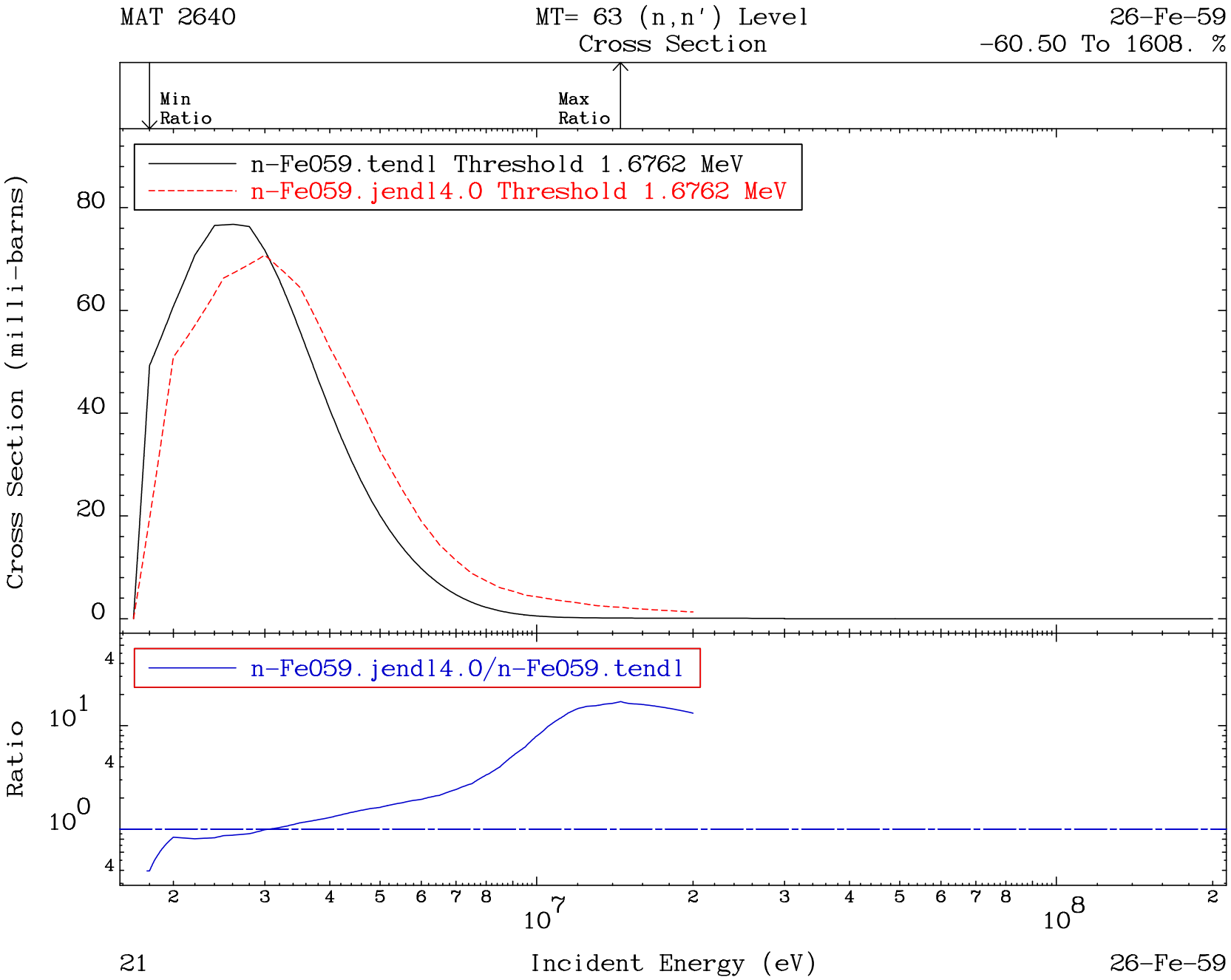

MAT 2640
MT= 58 (n,n') Level
Cross Section
26-Fe-59
-82.62 To 74.09 %
Max Ratio
Min Ratio
n-Fe059.tendl Threshold 1.0962 MeV
n-Fe059.jendl4.0 Threshold 1.0962 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
2
10^0
6
4
2
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
26-Fe-59

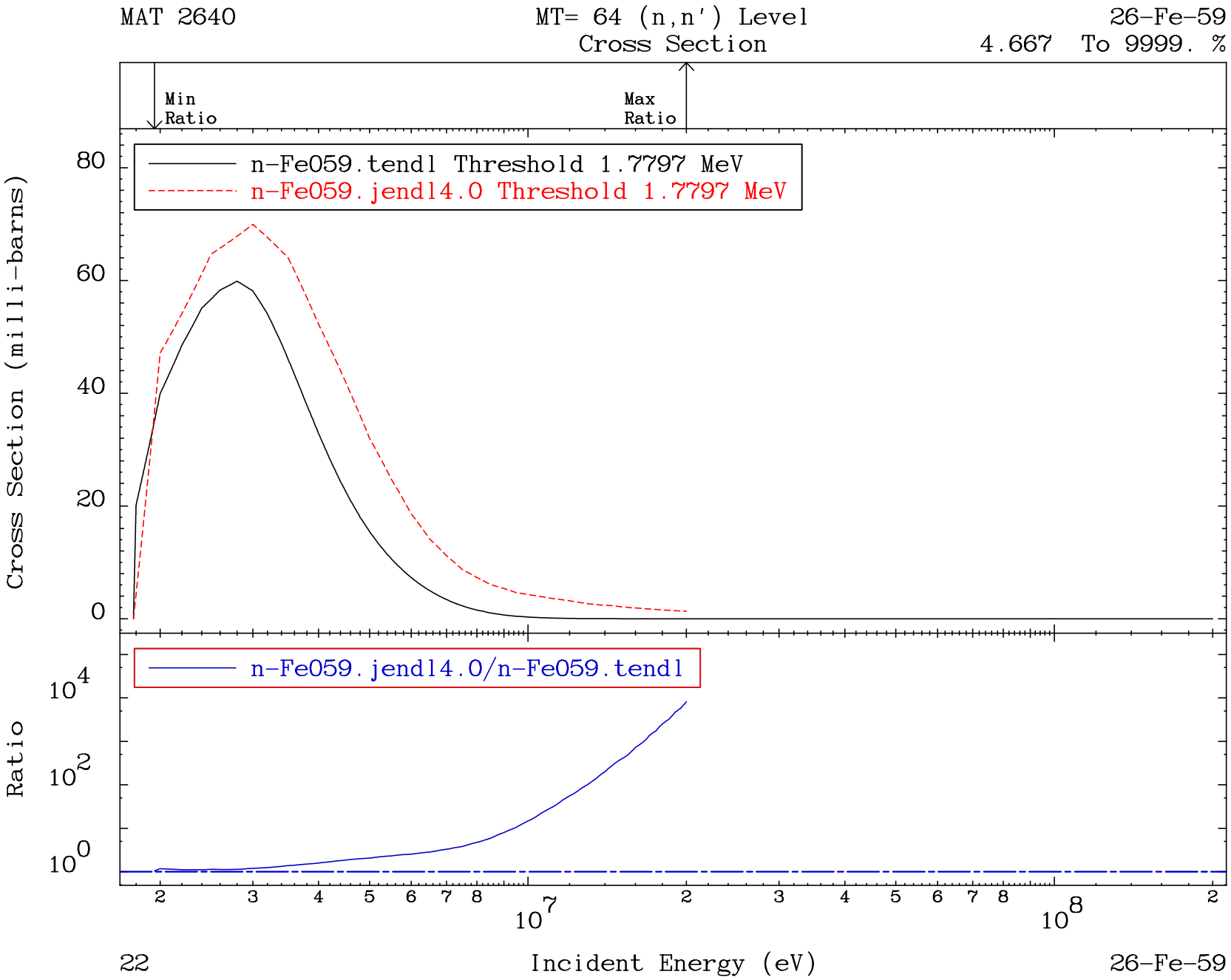

MAT 2640
MT= 59 (n,n') Level
Cross Section
26-Fe-59
-91.31 To -17.72%
Max
Ratio
Min
Ratio
n-Fe059.tendl Threshold 1.1820 MeV
n-Fe059.jendl4.0 Threshold 1.1820 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
0.8
0.4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
17
Incident Energy (eV)
26-Fe-59

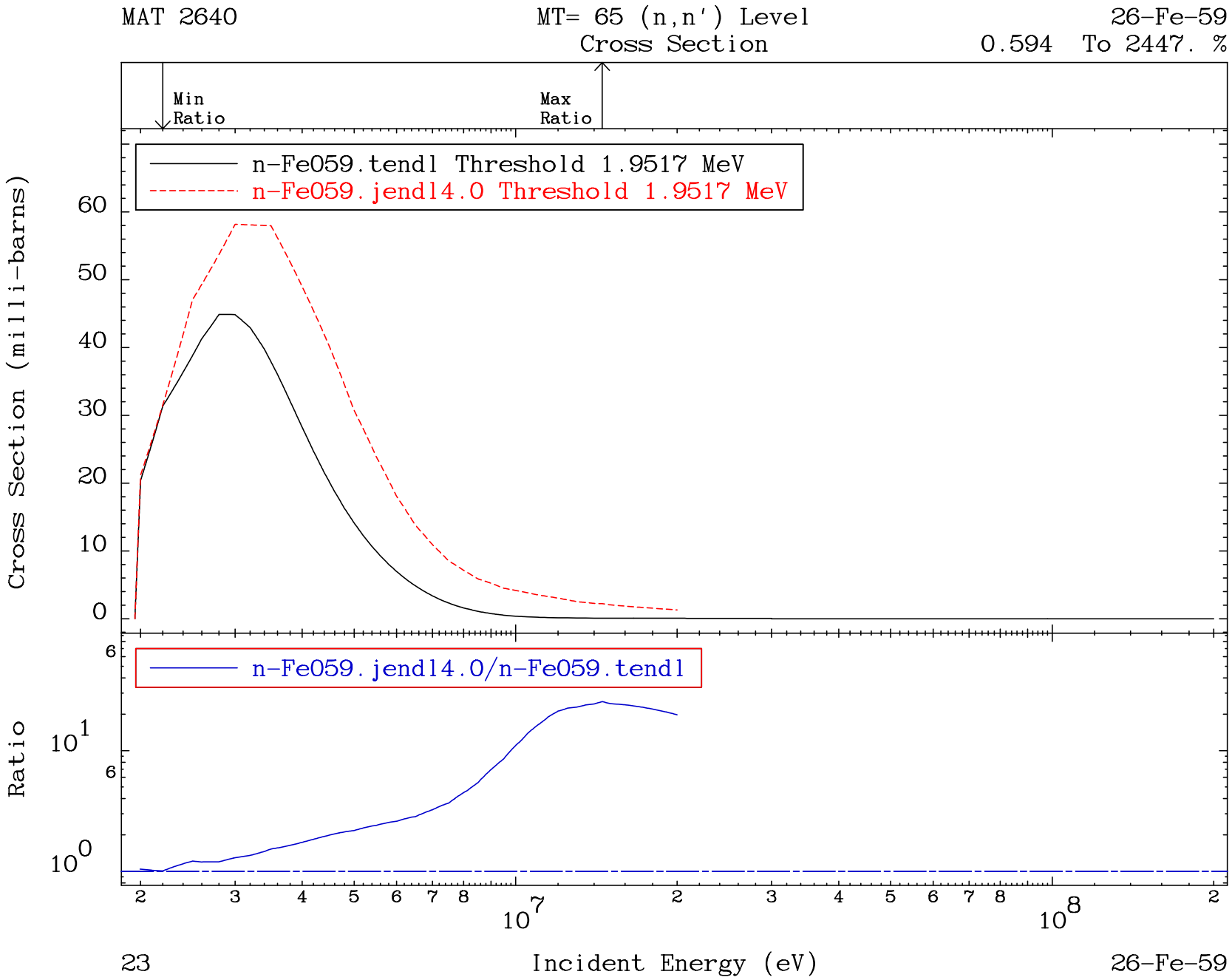

MAT 2640
MT= 60 (n,n') Level
Cross Section
26-Fe-59
-6.885 To 1924. %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 1.2321 MeV
n-Fe059.jendl4.0 Threshold 1.2321 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
4
10^1
6
4
10^0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
18
Incident Energy (eV)
26-Fe-59

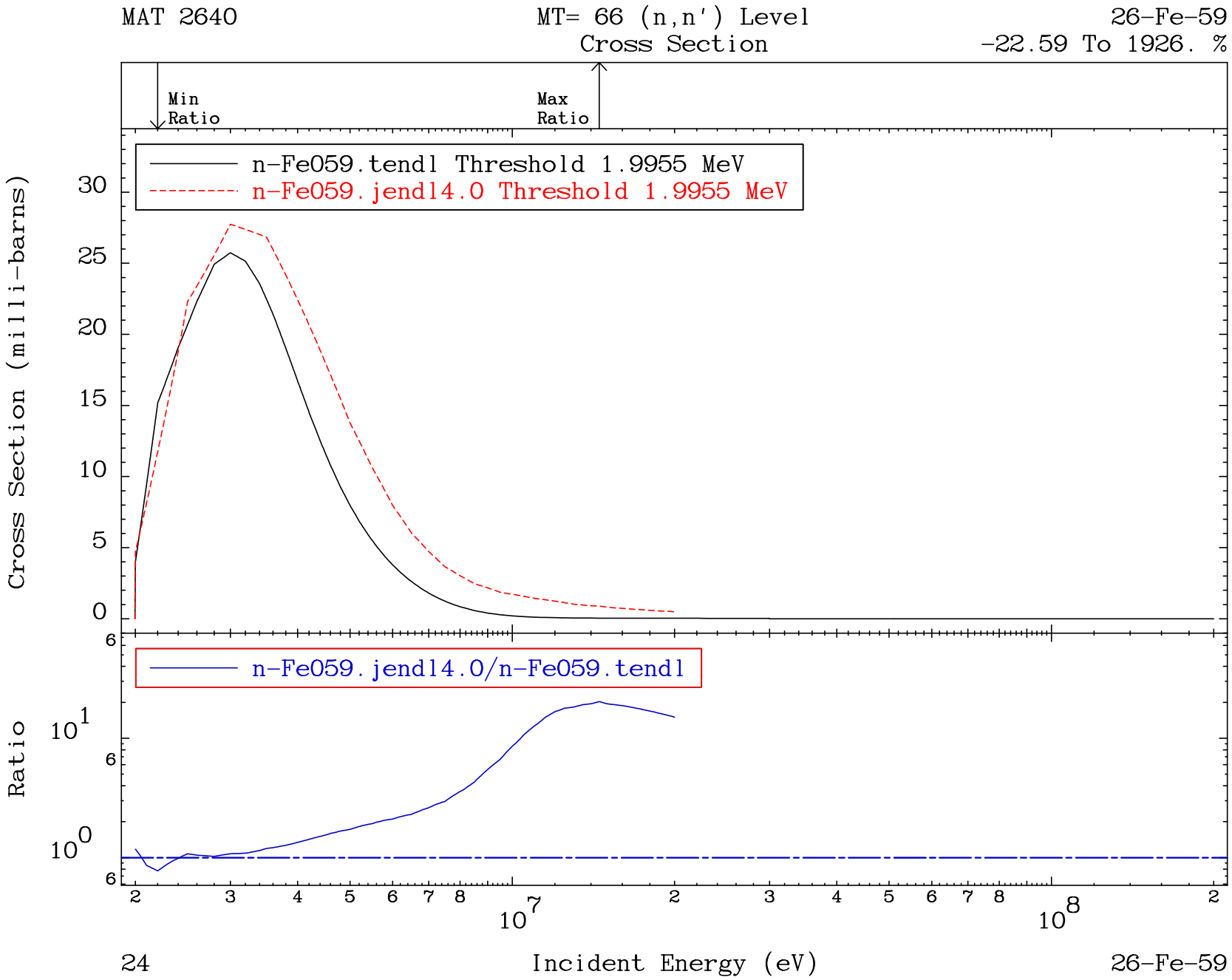

MAT 2640
MT= 61 (n,n') Level
Cross Section
26-Fe-59
-72.81 To 3481. %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 1.5432 MeV
n-Fe059.jendl4.0 Threshold 1.5432 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^2
10^1
10^0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
26-Fe-59

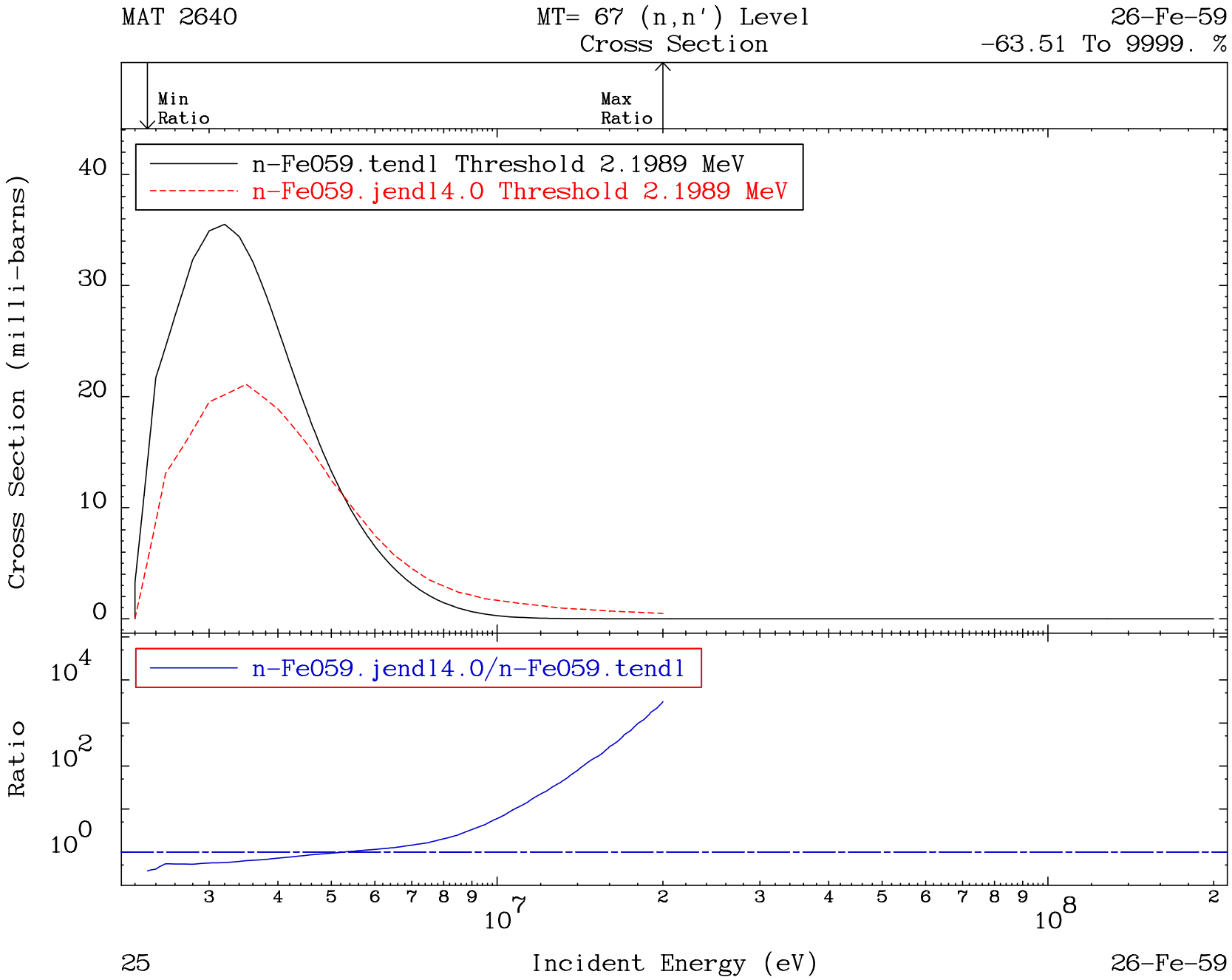

MAT 2640
MT= 62 (n,n') Level
Cross Section
26-Fe-59
-92.02 To -27.43%
Max
Ratio
Min
Ratio
n-Fe059.tendl Threshold 1.5968 MeV
n-Fe059.jendl4.0 Threshold 1.5968 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
0.8
0.6
0.4
0.2
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
20
Incident Energy (eV)
26-Fe-59

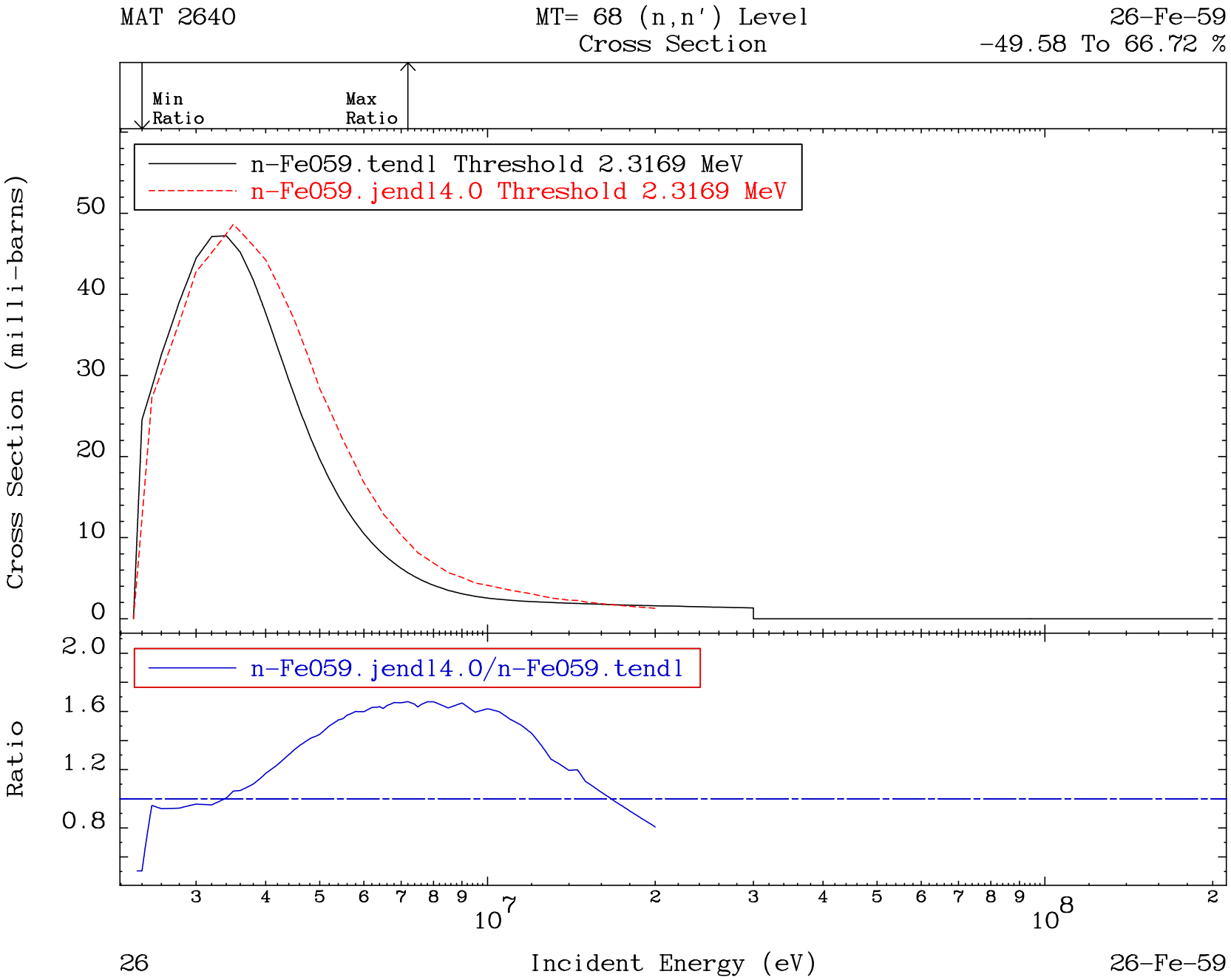

MAT 2640
MT= 63 (n,n') Level
Cross Section
26-Fe-59
-60.50 To 1608. %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 1.6762 MeV
n-Fe059.jendl4.0 Threshold 1.6762 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^1
10^0
4
2 3 4 5 6 7 8
10^7
10^8
21
Incident Energy (eV)
26-Fe-59

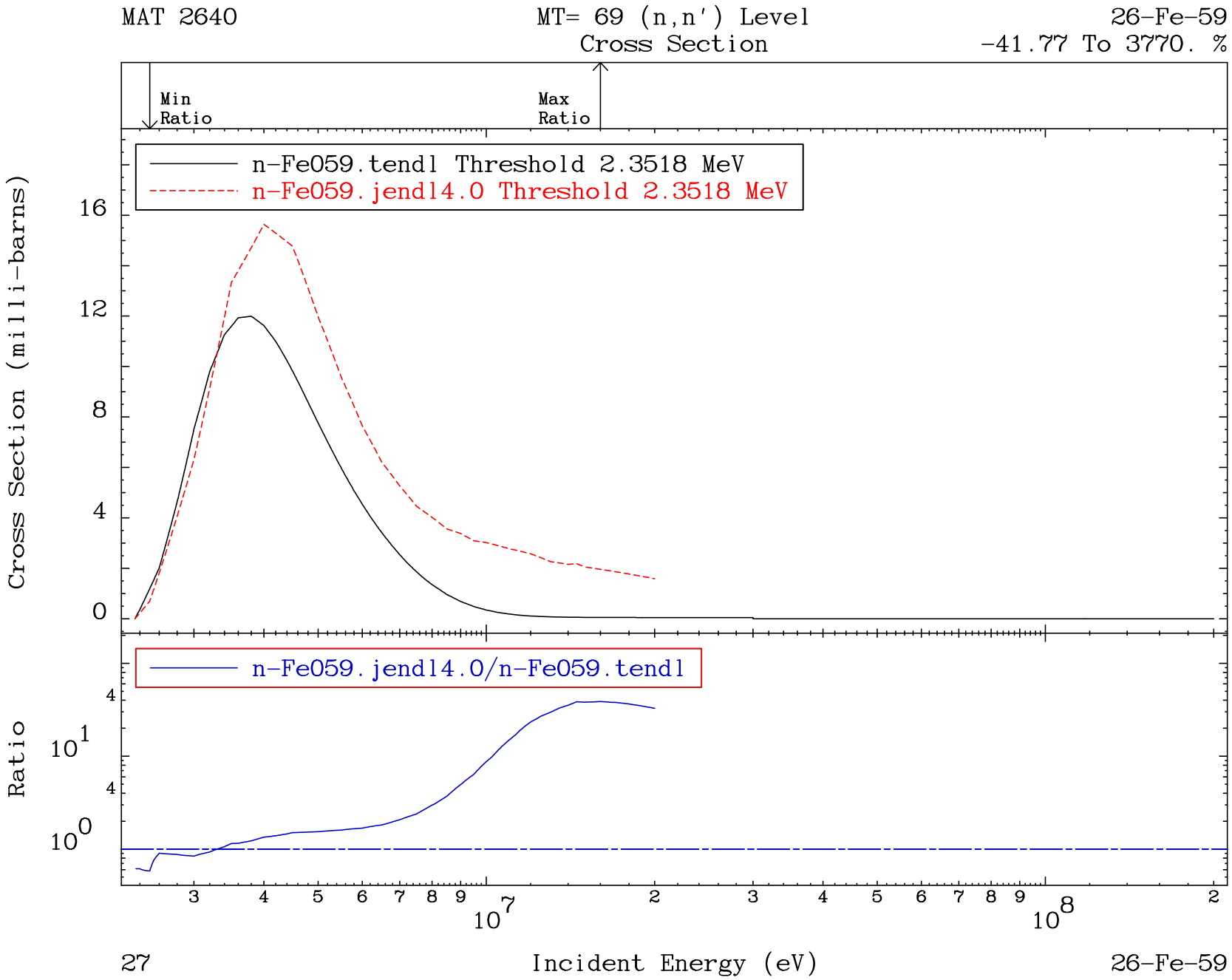

MAT 2640
MT= 64 (n,n') Level
Cross Section
26-Fe-59
4.667 To 9999. %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 1.7797 MeV
n-Fe059.jendl4.0 Threshold 1.7797 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^4
10^2
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
26-Fe-59

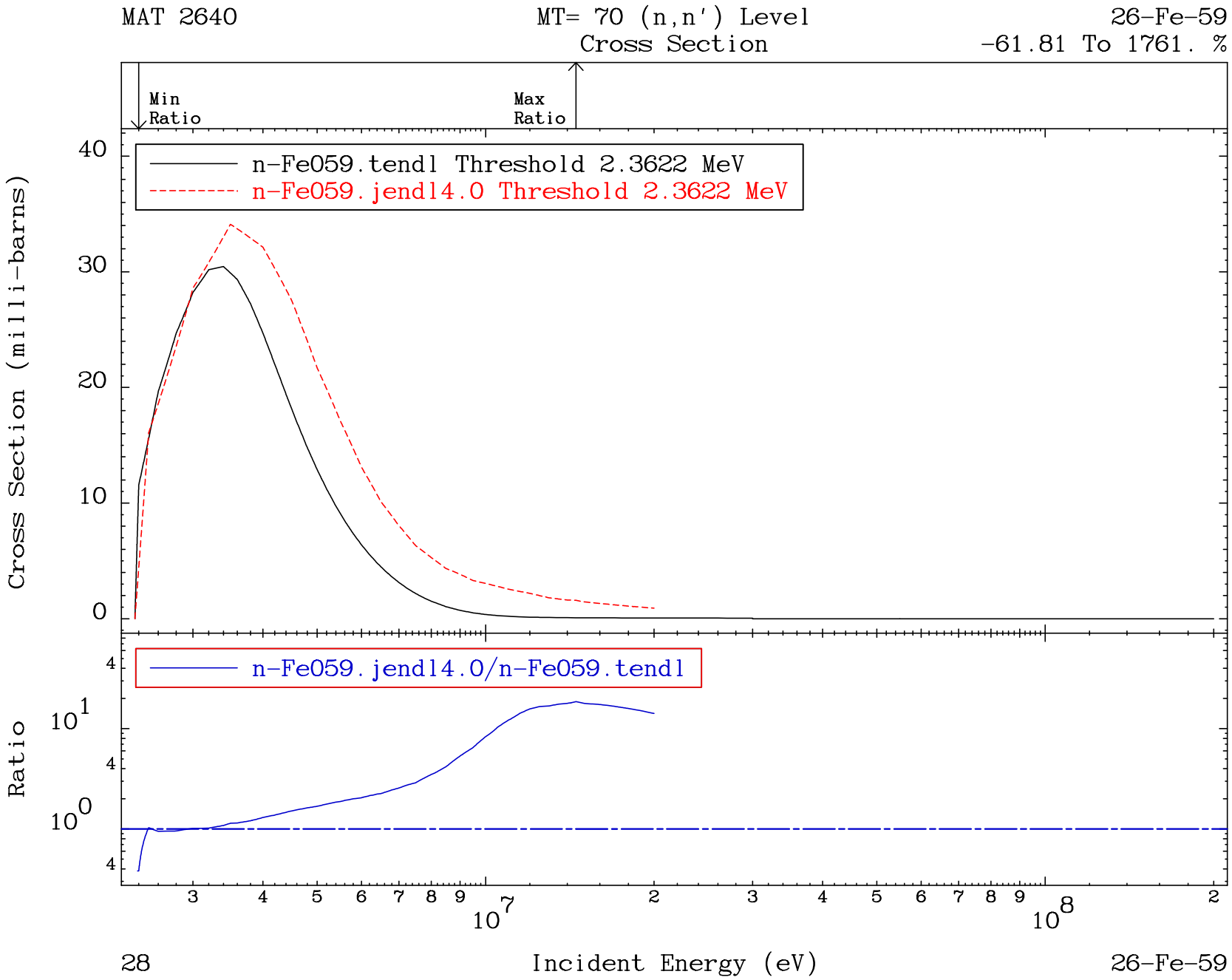

MAT 2640
MT= 65 (n,n') Level
Cross Section
26-Fe-59
0.594 To 2447. %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 1.9517 MeV
n-Fe059.jendl4.0 Threshold 1.9517 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^1
6
10^0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
23
Incident Energy (eV)
26-Fe-59

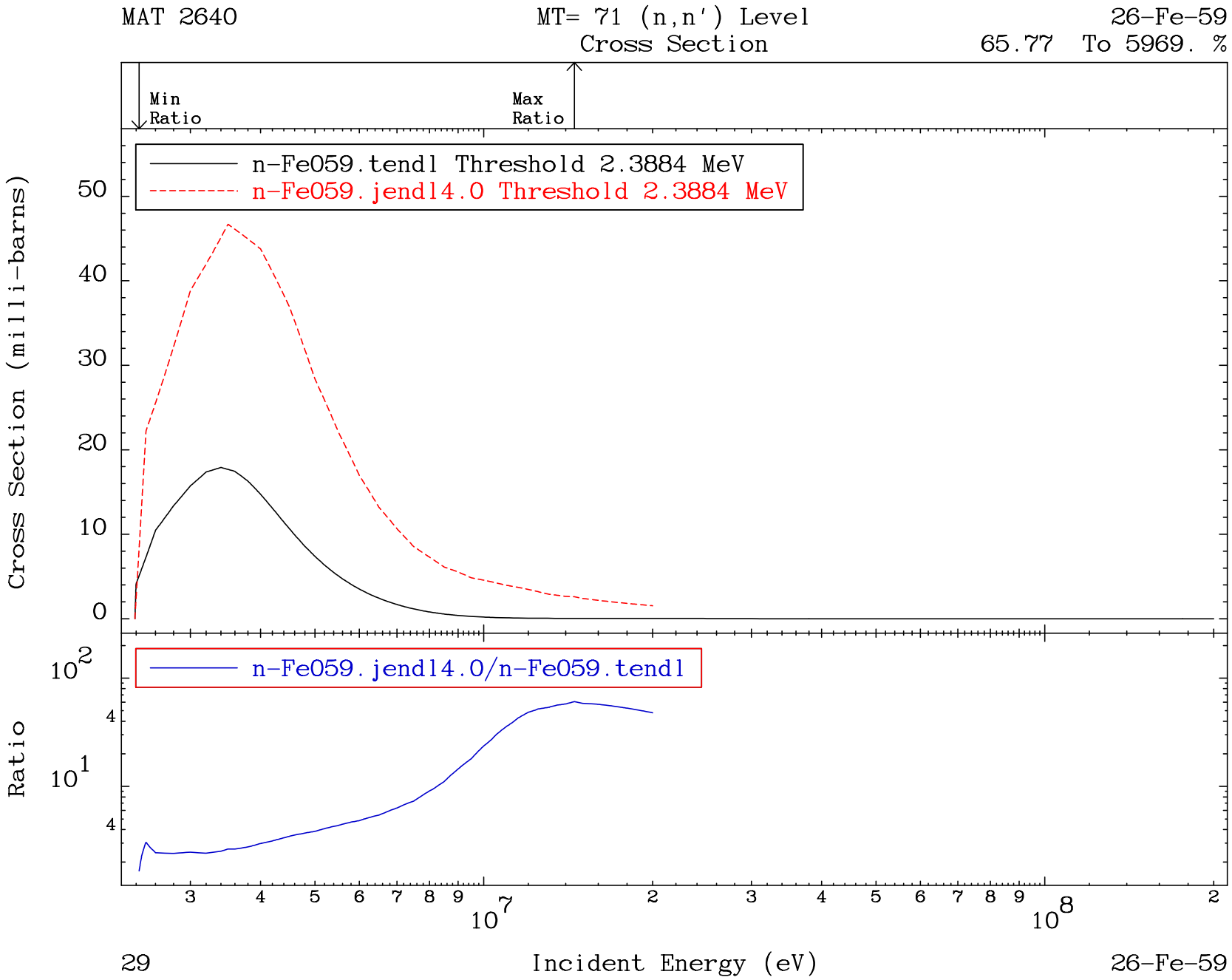

MAT 2640
MT= 66 (n,n') Level
Cross Section
26-Fe-59
-22.59 To 1926. %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 1.9955 MeV
n-Fe059.jendl4.0 Threshold 1.9955 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^1
10^0
6
2
3
4
5
6
7
8
10^7
10^8
24
Incident Energy (eV)
26-Fe-59

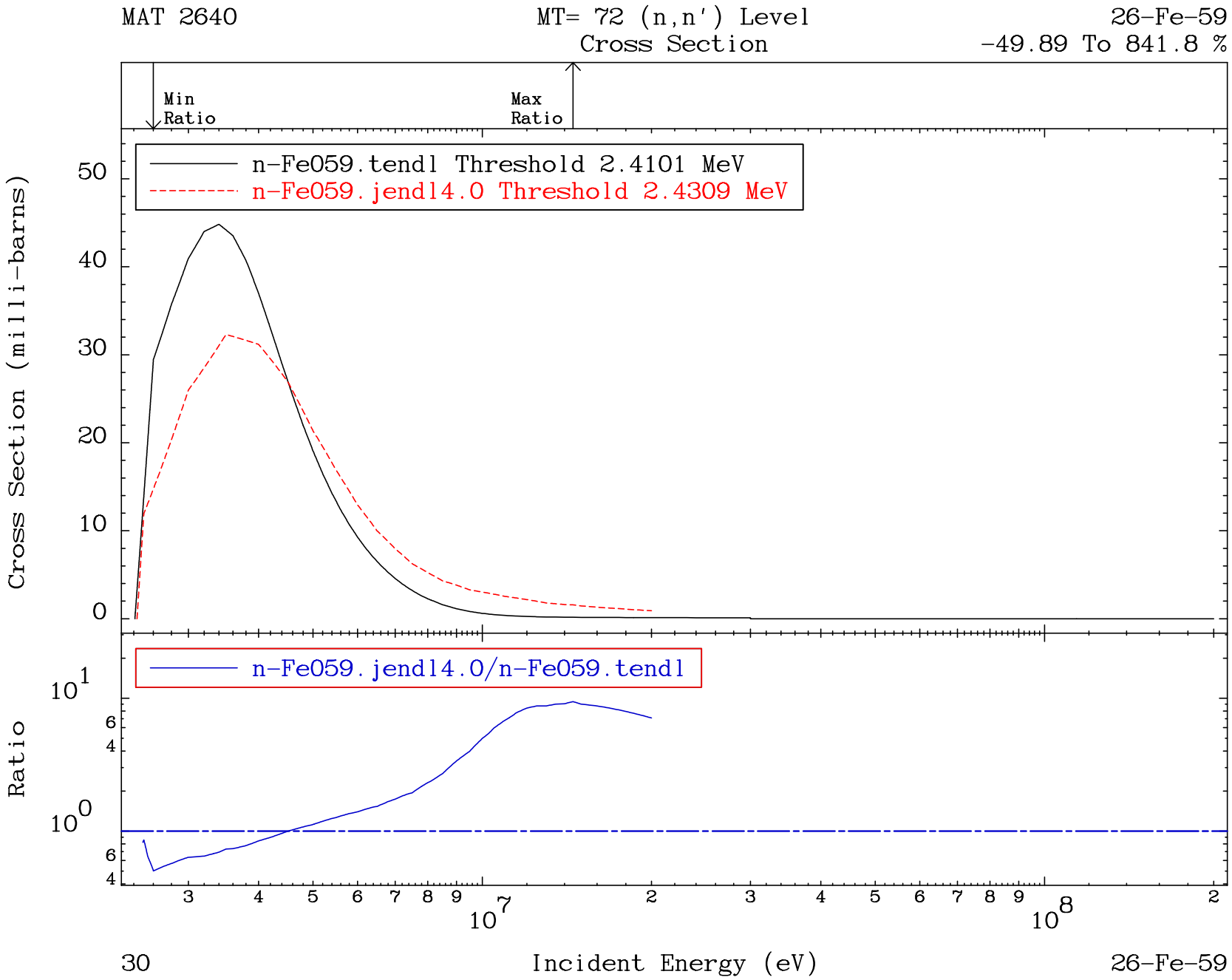

MAT 2640
MT= 67 (n,n') Level
Cross Section
26-Fe-59
-63.51 To 9999. %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 2.1989 MeV
n-Fe059.jendl4.0 Threshold 2.1989 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^4
10^2
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
25
Incident Energy (eV)
26-Fe-59

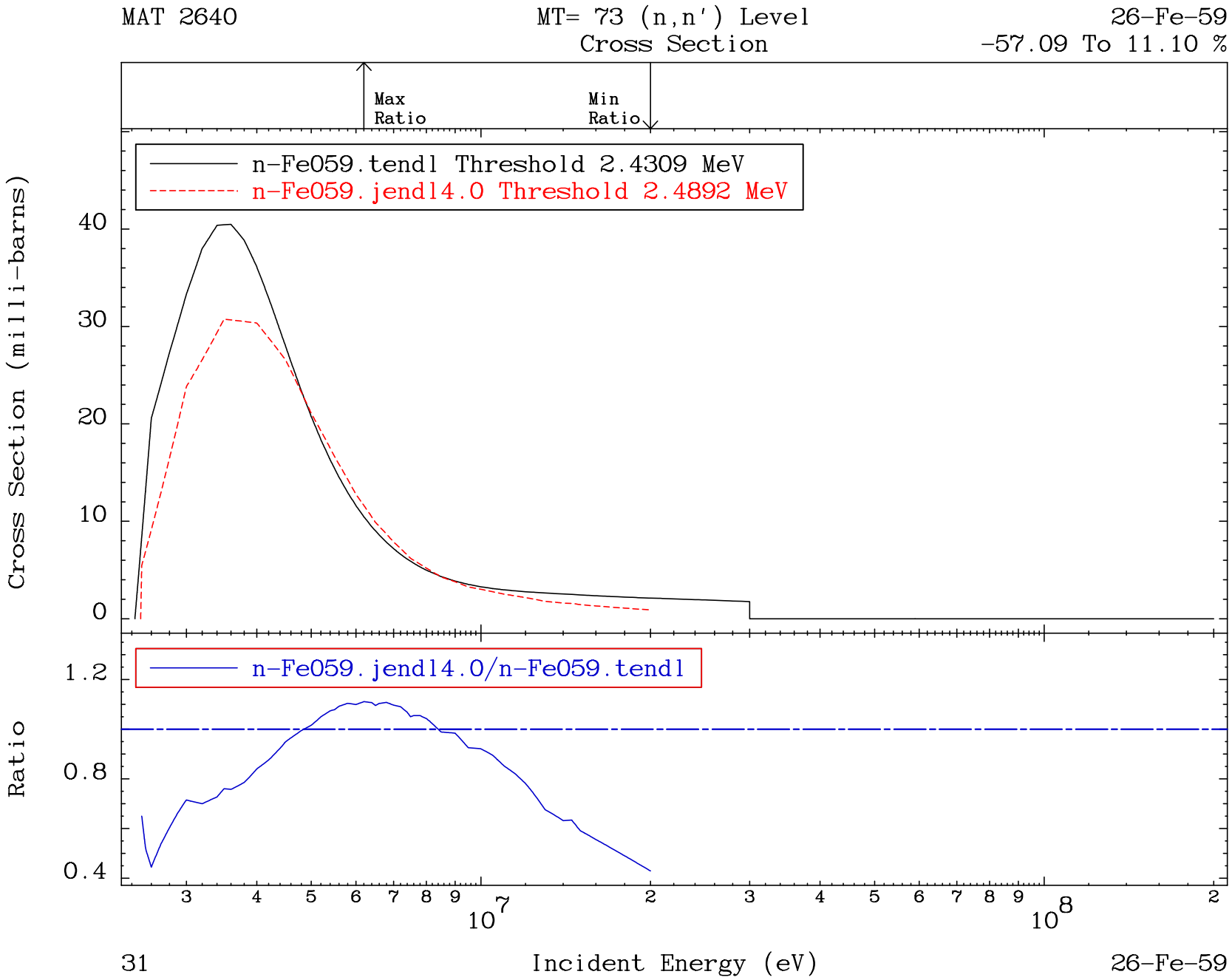

MAT 2640
MT= 68 (n,n') Level
Cross Section
26-Fe-59
-49.58 To 66.72 %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 2.3169 MeV
n-Fe059.jendl4.0 Threshold 2.3169 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
2.0
1.6
1.2
0.8
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
26
Incident Energy (eV)
26-Fe-59

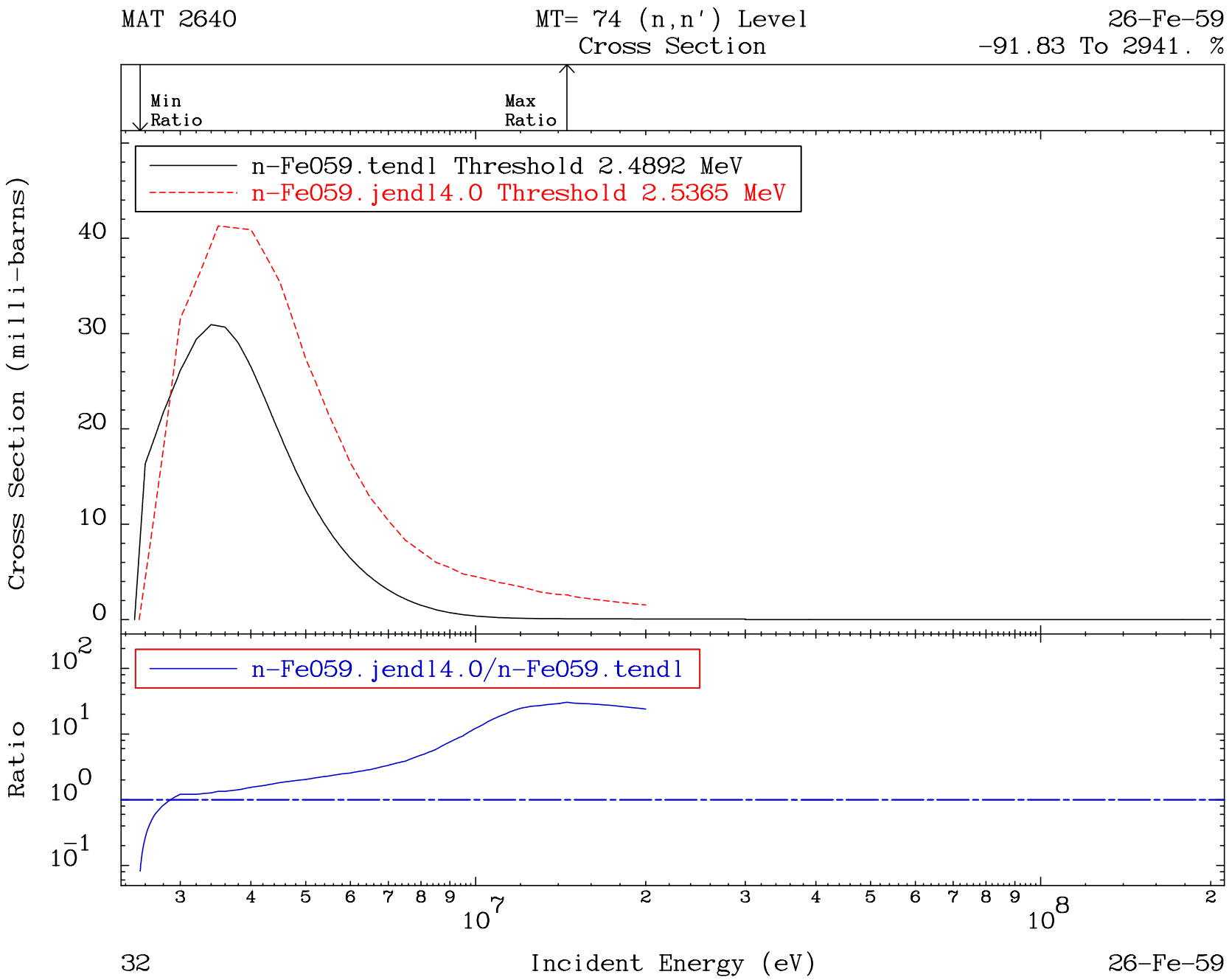

MAT 2640
MT= 69 (n,n') Level
Cross Section
26-Fe-59
-41.77 To 3770. %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 2.3518 MeV
n-Fe059.jendl4.0 Threshold 2.3518 MeV
Cross Section (milli-barns)
16
12
8
4
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^1
4
10^0
4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
26-Fe-59

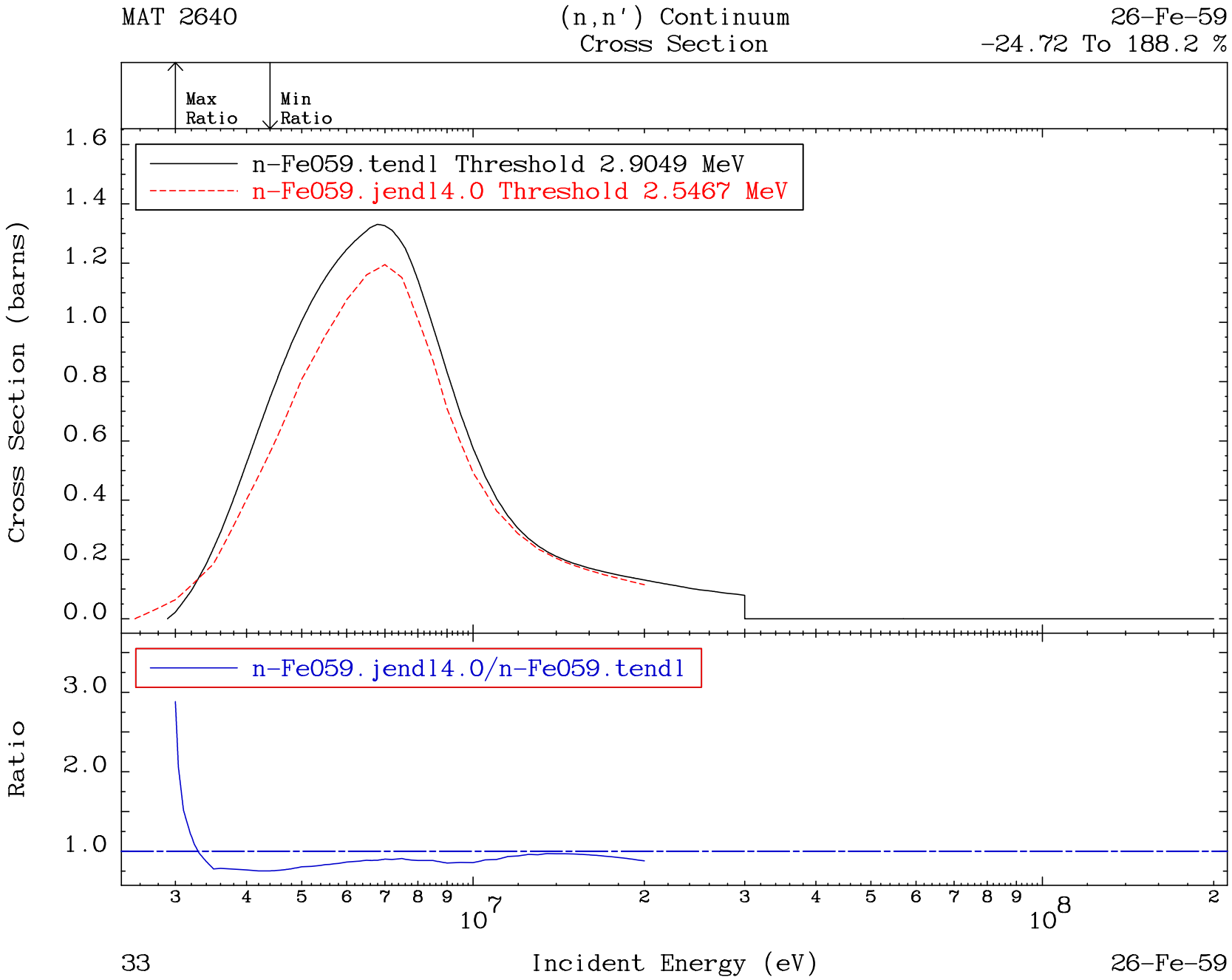

MAT 2640
MT= 70 (n,n') Level
Cross Section
26-Fe-59
-61.81 To 1761. %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 2.3622 MeV
n-Fe059.jendl4.0 Threshold 2.3622 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^1
10^0
4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
26-Fe-59

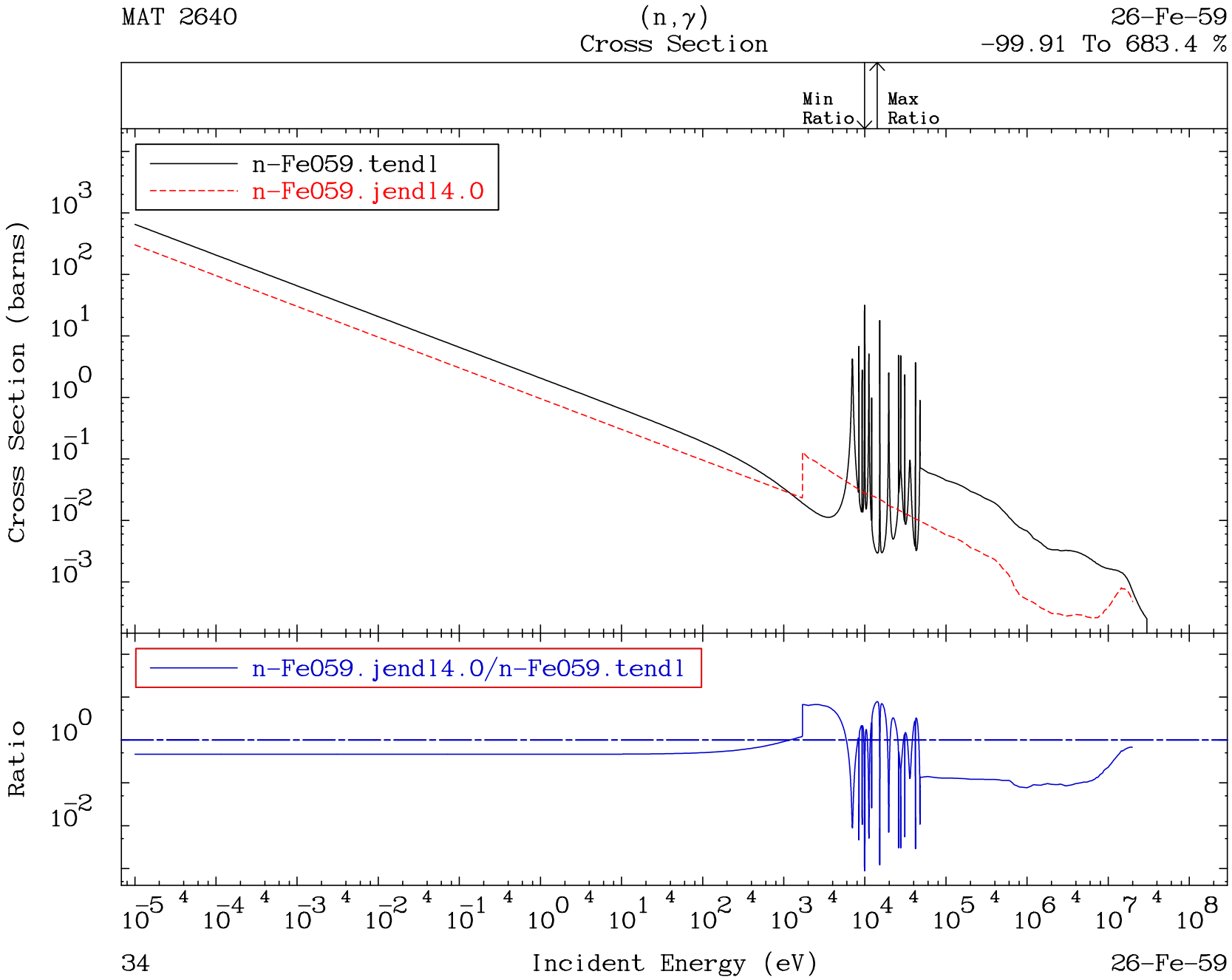

MAT 2640
MT= 71 (n,n') Level
Cross Section
26-Fe-59
65.77 To 5969. %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 2.3884 MeV
n-Fe059.jendl4.0 Threshold 2.3884 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^2
4
10^1
4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
26-Fe-59

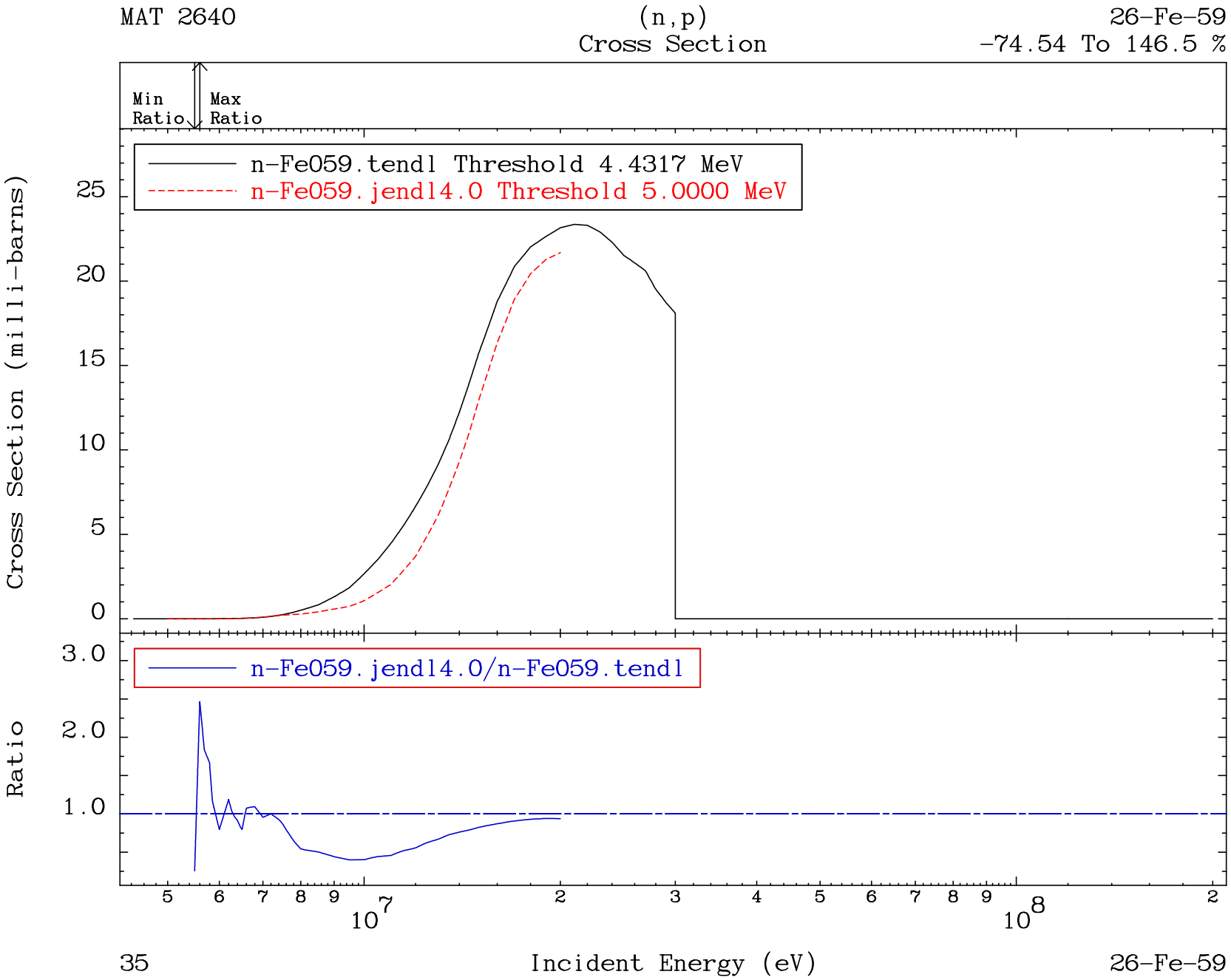

MAT 2640
MT= 72 (n,n') Level
Cross Section
26-Fe-59
-49.89 To 841.8 %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 2.4101 MeV
n-Fe059.jendl4.0 Threshold 2.4309 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^1
10^0
6
4
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
30
Incident Energy (eV)
26-Fe-59

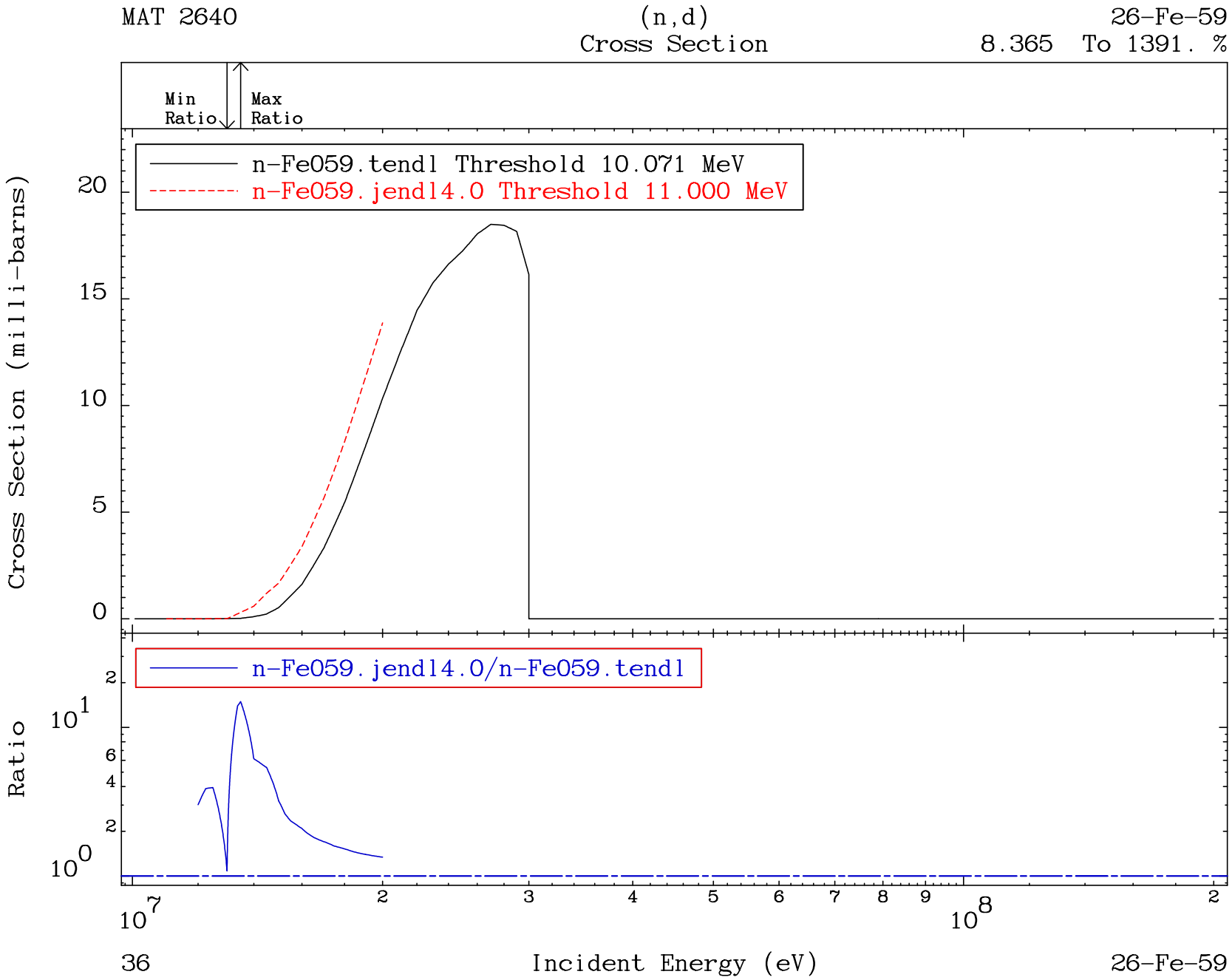

MAT 2640
MT= 73 (n,n') Level
Cross Section
26-Fe-59
-57.09 To 11.10 %
Max Ratio
Min Ratio
n-Fe059.tendl Threshold 2.4309 MeV
n-Fe059.jendl4.0 Threshold 2.4892 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
26-Fe-59

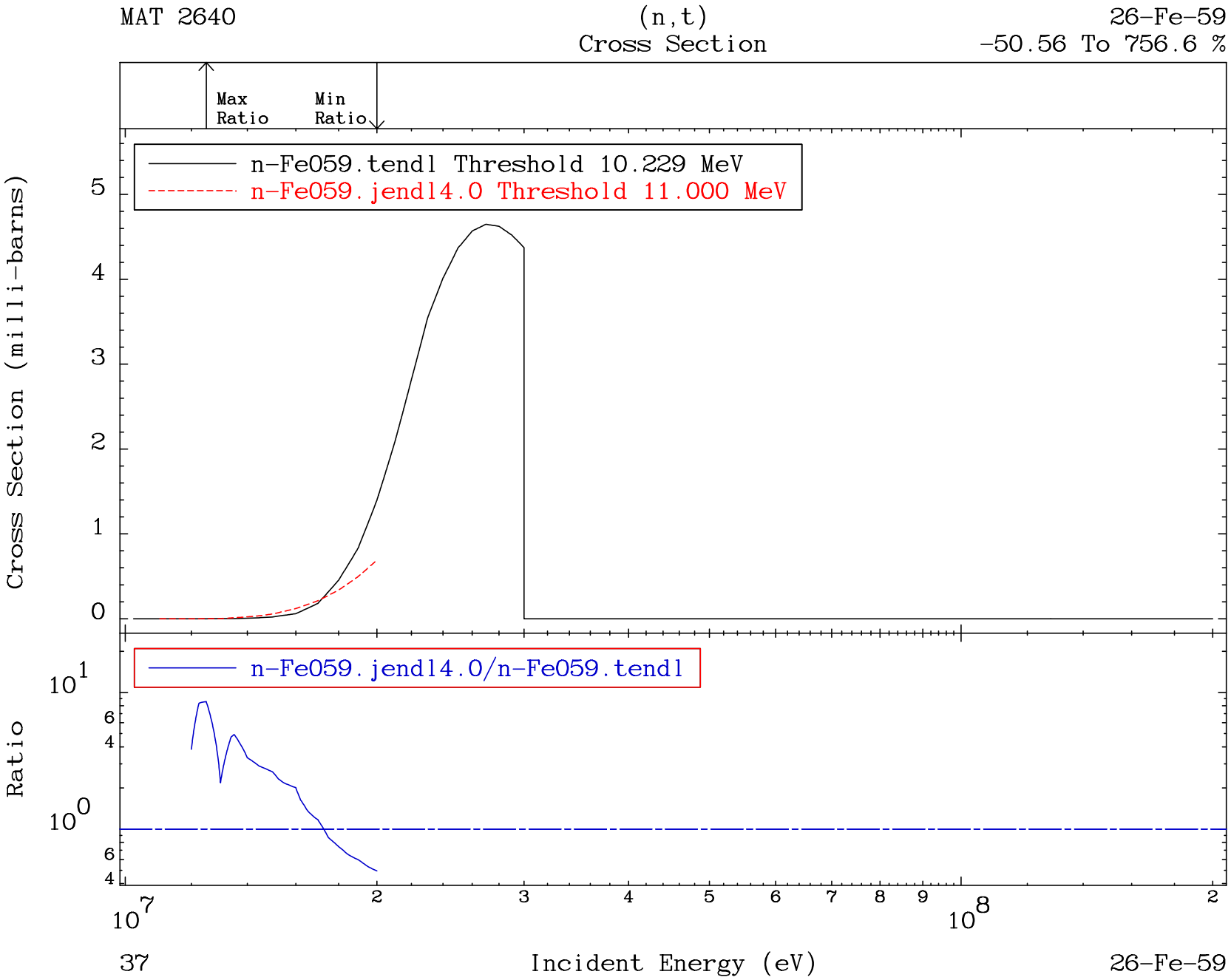

MAT 2640
MT= 74 (n,n') Level
Cross Section
26-Fe-59
-91.83 To 2941. %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 2.4892 MeV
n-Fe059.jendl4.0 Threshold 2.5365 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^2
10^1
10^0
10^-1
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
26-Fe-59

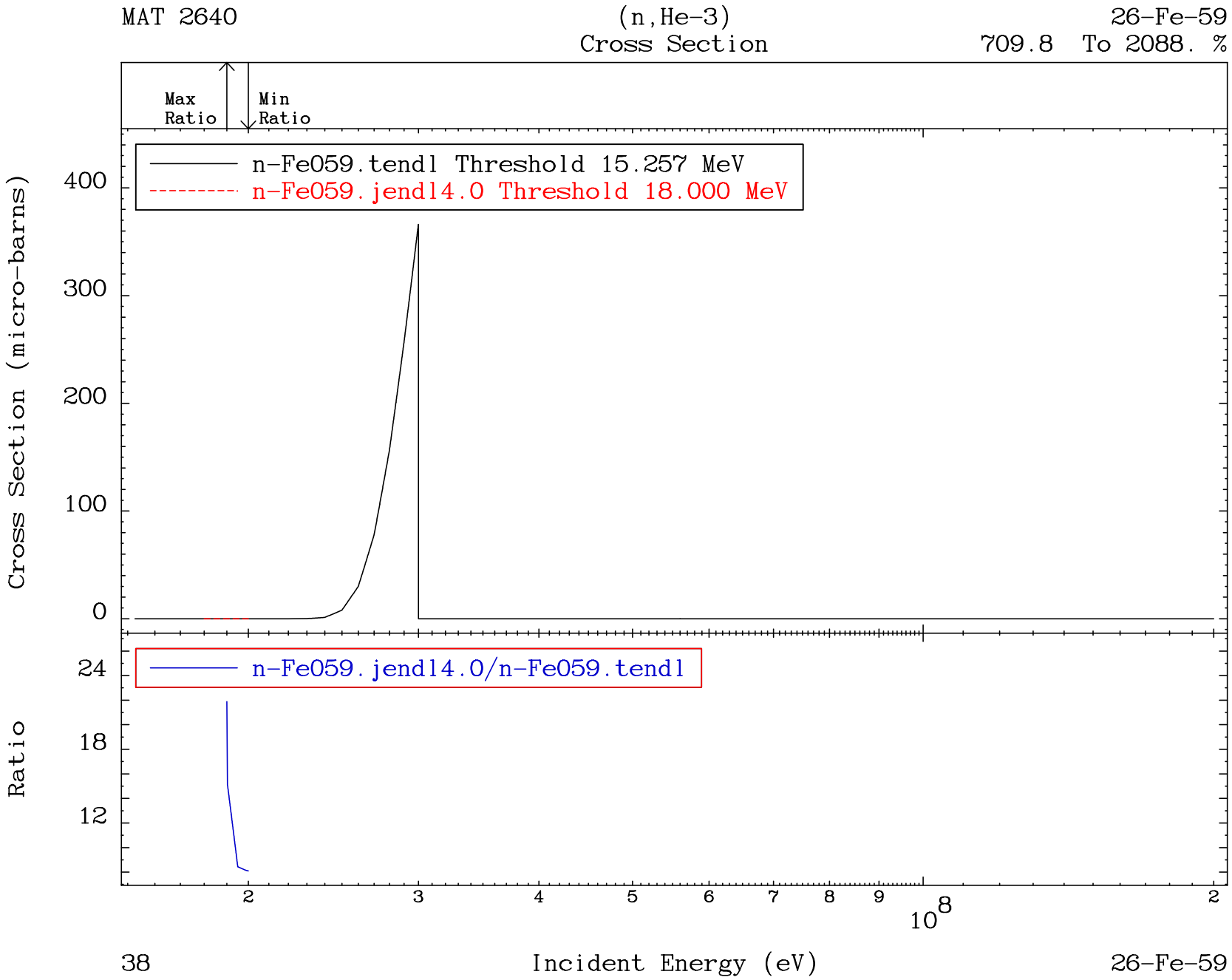

MAT 2640
(n,n') Continuum
Cross Section
26-Fe-59
-24.72 To 188.2 %
Max Ratio
Min Ratio
n-Fe059.tendl Threshold 2.9049 MeV
n-Fe059.jendl4.0 Threshold 2.5467 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
3.0
2.0
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
26-Fe-59

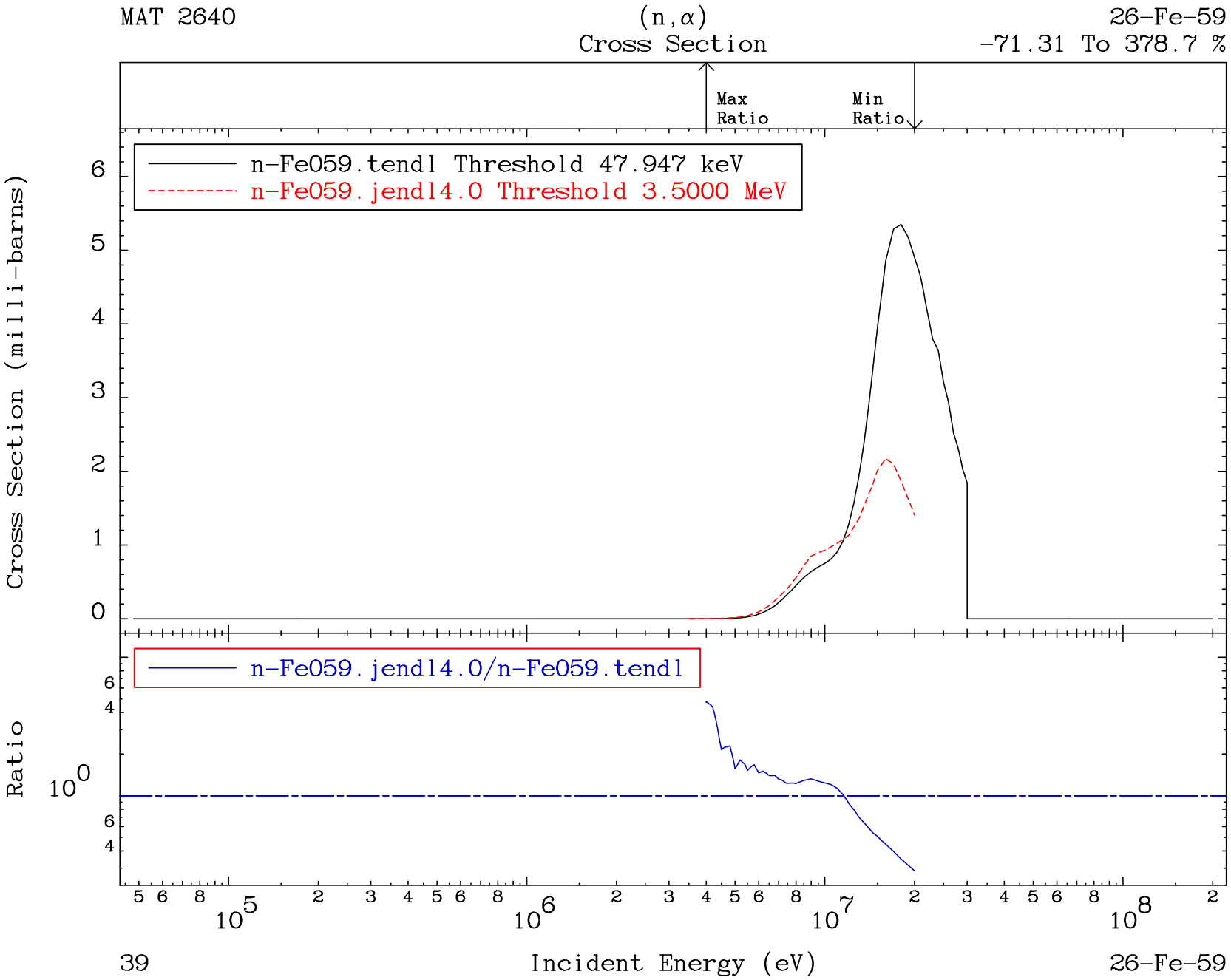

MAT 2640
(n,γ)
Cross Section
26-Fe-59
-99.91 To 683.4 %
Min Ratio
Max Ratio
n-Fe059.tendl
n-Fe059.jendl4.0
Cross Section (barns)
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
Incident Energy (eV)
34
26-Fe-59

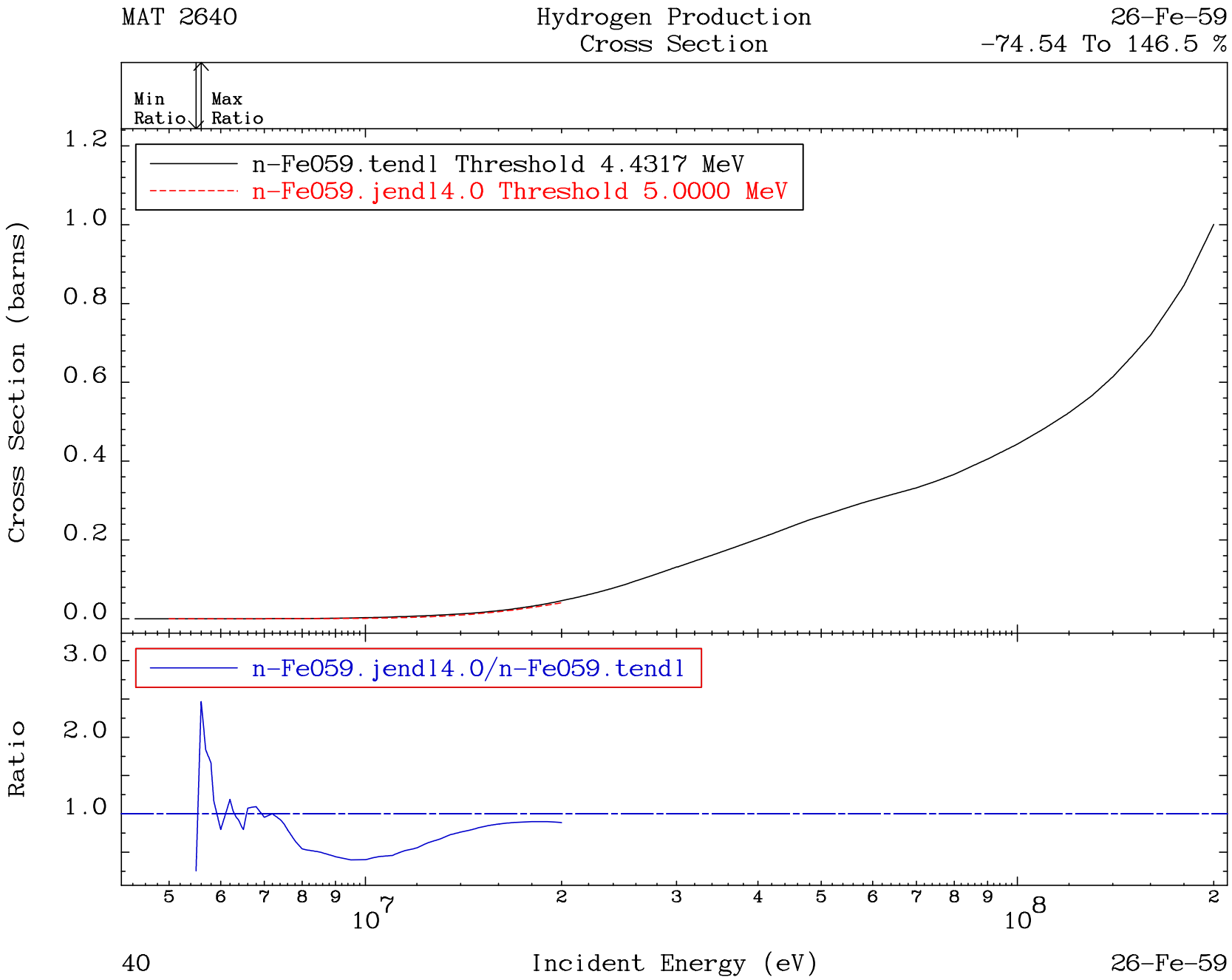

MAT 2640
(n,p)
Cross Section
26-Fe-59
-74.54 To 146.5 %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 4.4317 MeV
n-Fe059.jendl4.0 Threshold 5.0000 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
3.0
2.0
1.0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
26-Fe-59

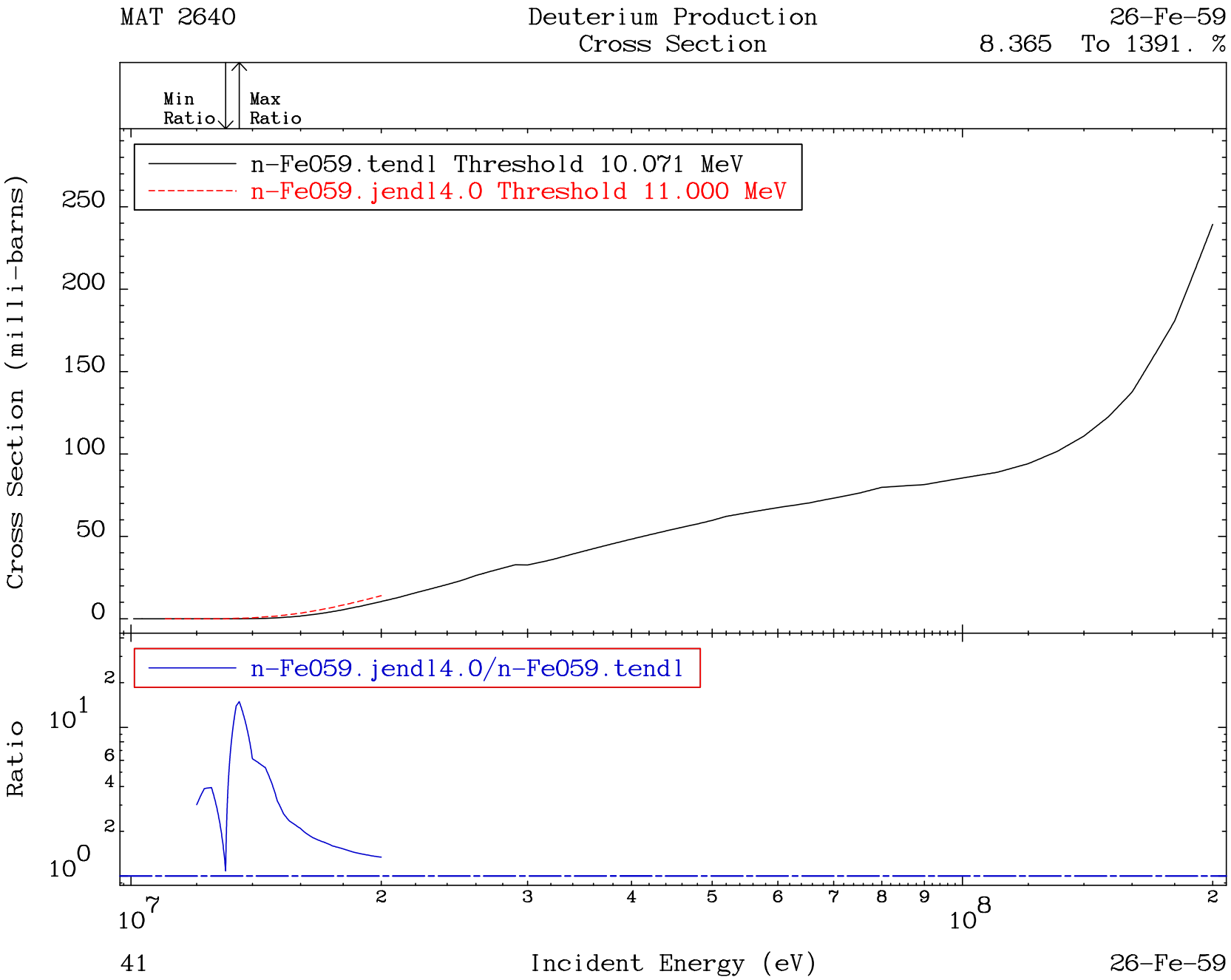

MAT 2640
(n,d)
Cross Section
26-Fe-59
8.365 To 1391. %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 10.071 MeV
n-Fe059.jendl4.0 Threshold 11.000 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^1
6
4
2
10^0
10^7
2
3
4
5
6
7
8
9
10^8
2
36
Incident Energy (eV)
26-Fe-59

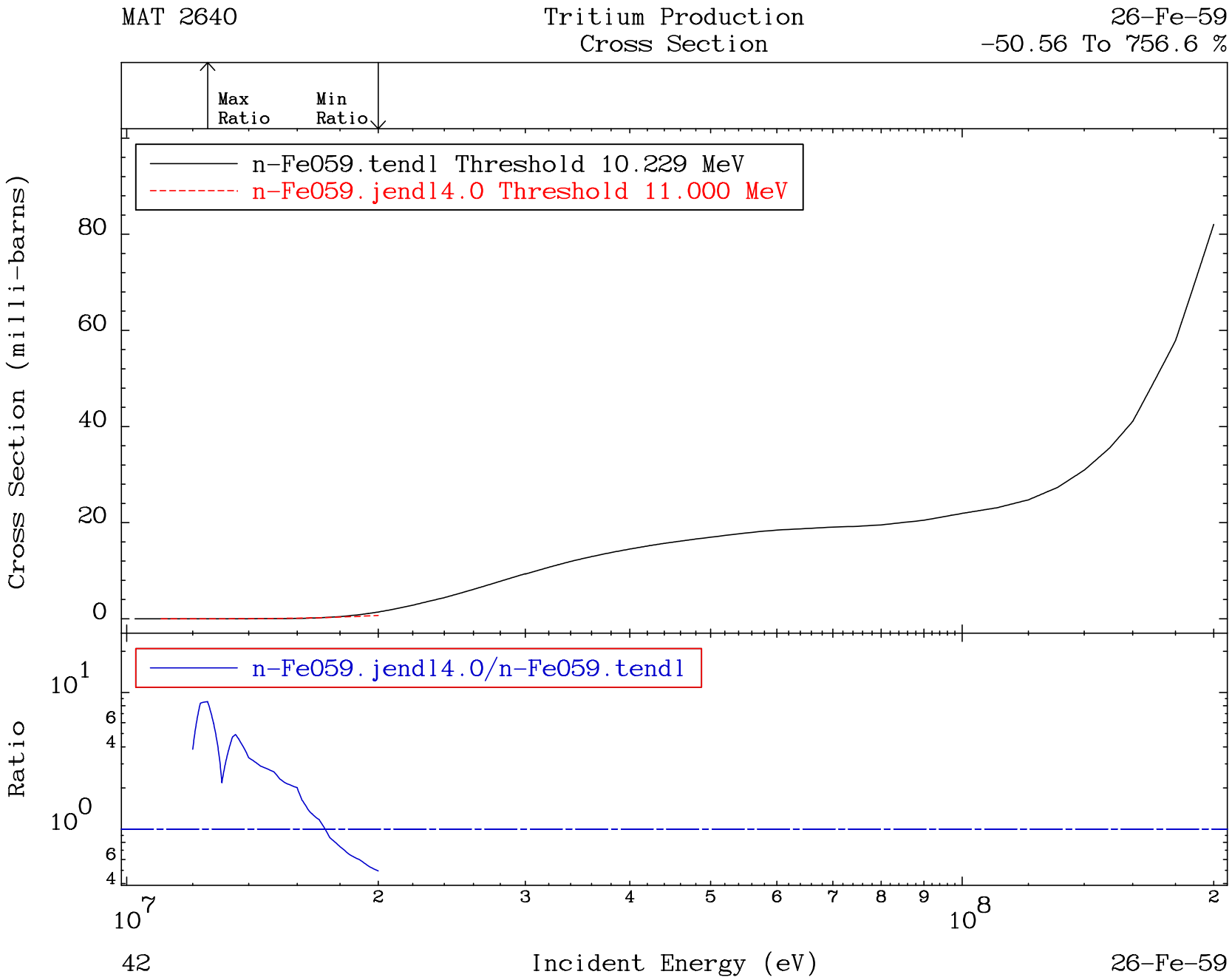

MAT 2640
(n,t)
Cross Section
26-Fe-59
-50.56 To 756.6 %
Max Ratio
Min Ratio
n-Fe059.tendl Threshold 10.229 MeV
n-Fe059.jendl4.0 Threshold 11.000 MeV
Cross Section (milli-barns)
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
Incident Energy (eV)
37
26-Fe-59

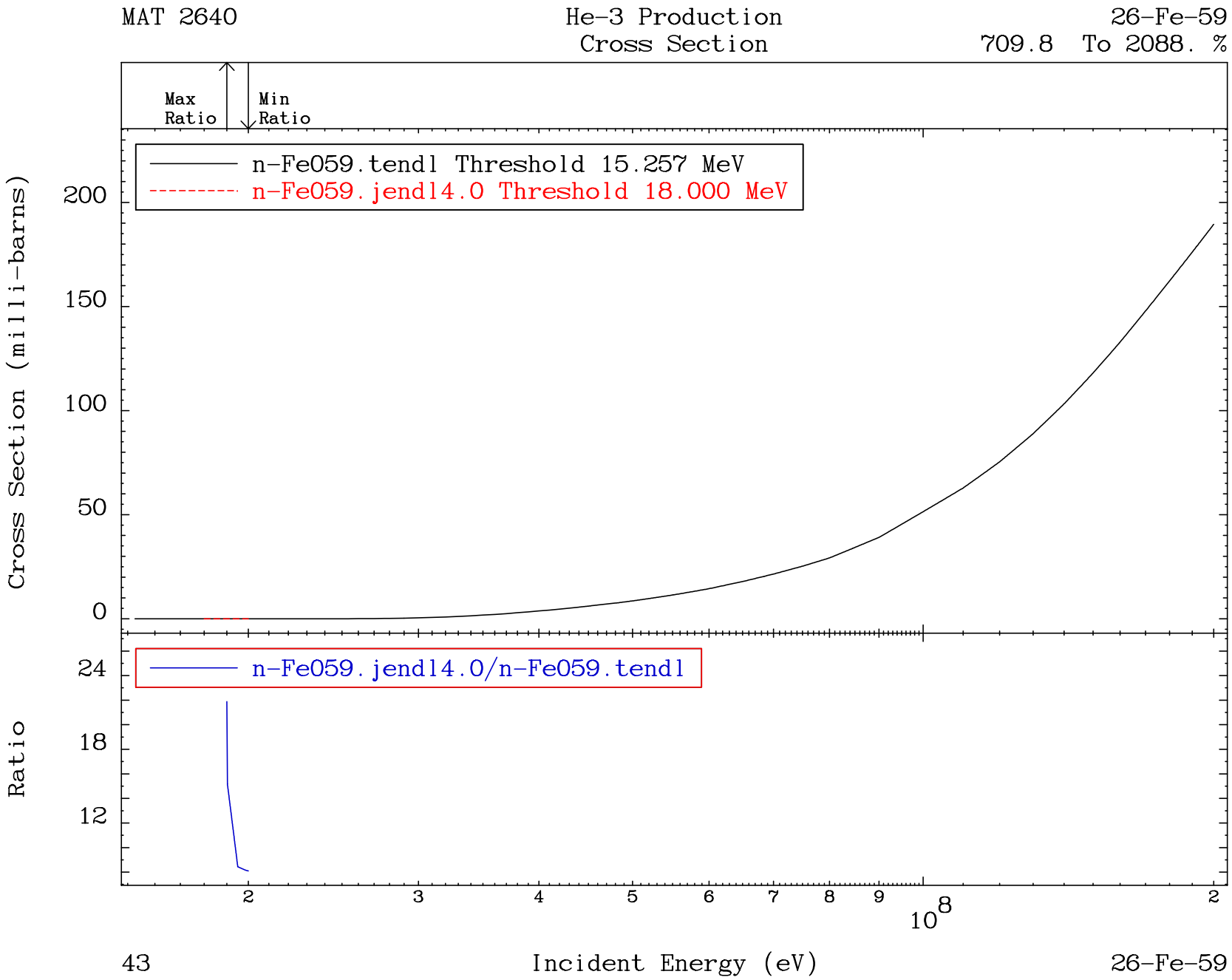

MAT 2640
(n,He-3)
Cross Section
26-Fe-59
709.8 To 2088. %
Max Ratio
Min Ratio
n-Fe059.tendl Threshold 15.257 MeV
n-Fe059.jendl4.0 Threshold 18.000 MeV
Cross Section (micro-barns)
400
300
200
100
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
24
18
12
2
3
4
5
6
7
8
9
10^8
2
38
Incident Energy (eV)
26-Fe-59

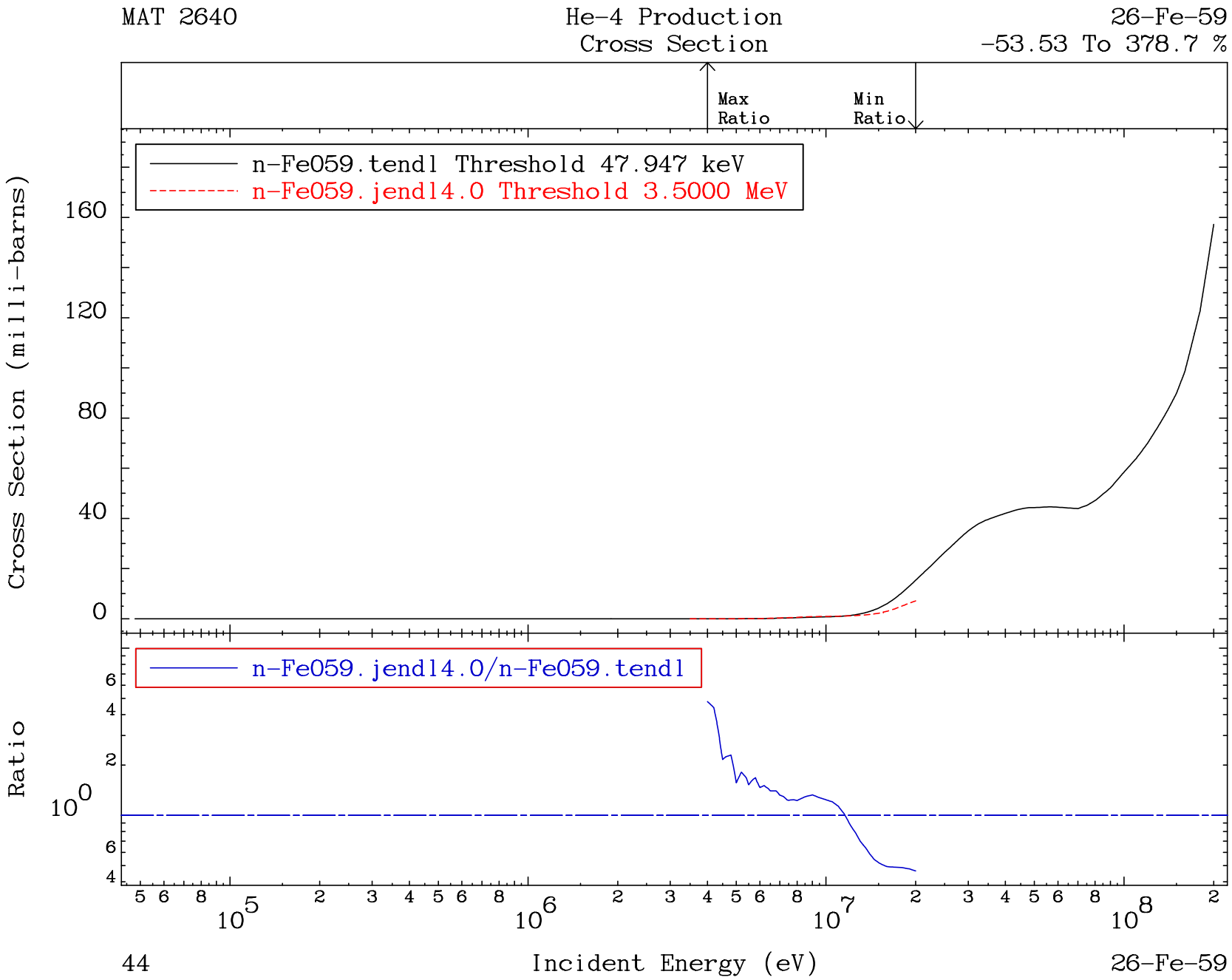

MAT 2640
(n,α)
Cross Section
26-Fe-59
-71.31 To 378.7 %
Max Ratio
Min Ratio
n-Fe059.tendl Threshold 47.947 keV
n-Fe059.jendl4.0 Threshold 3.5000 MeV
Cross Section (milli-barns)
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
Incident Energy (eV)
39
26-Fe-59

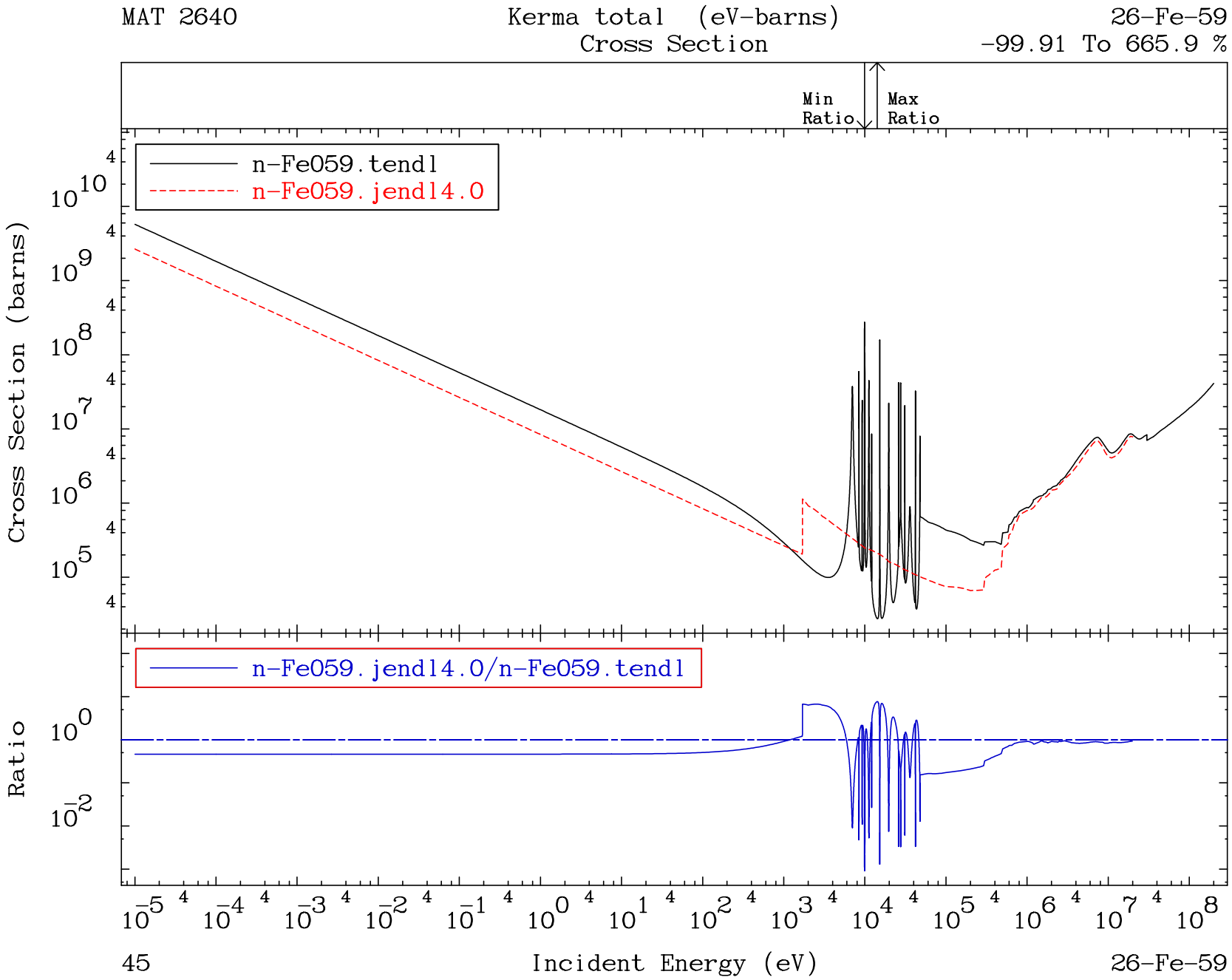

MAT 2640
Hydrogen Production
Cross Section
26-Fe-59
-74.54 To 146.5 %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 4.4317 MeV
n-Fe059.jendl4.0 Threshold 5.0000 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
3.0
2.0
1.0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
40
Incident Energy (eV)
26-Fe-59

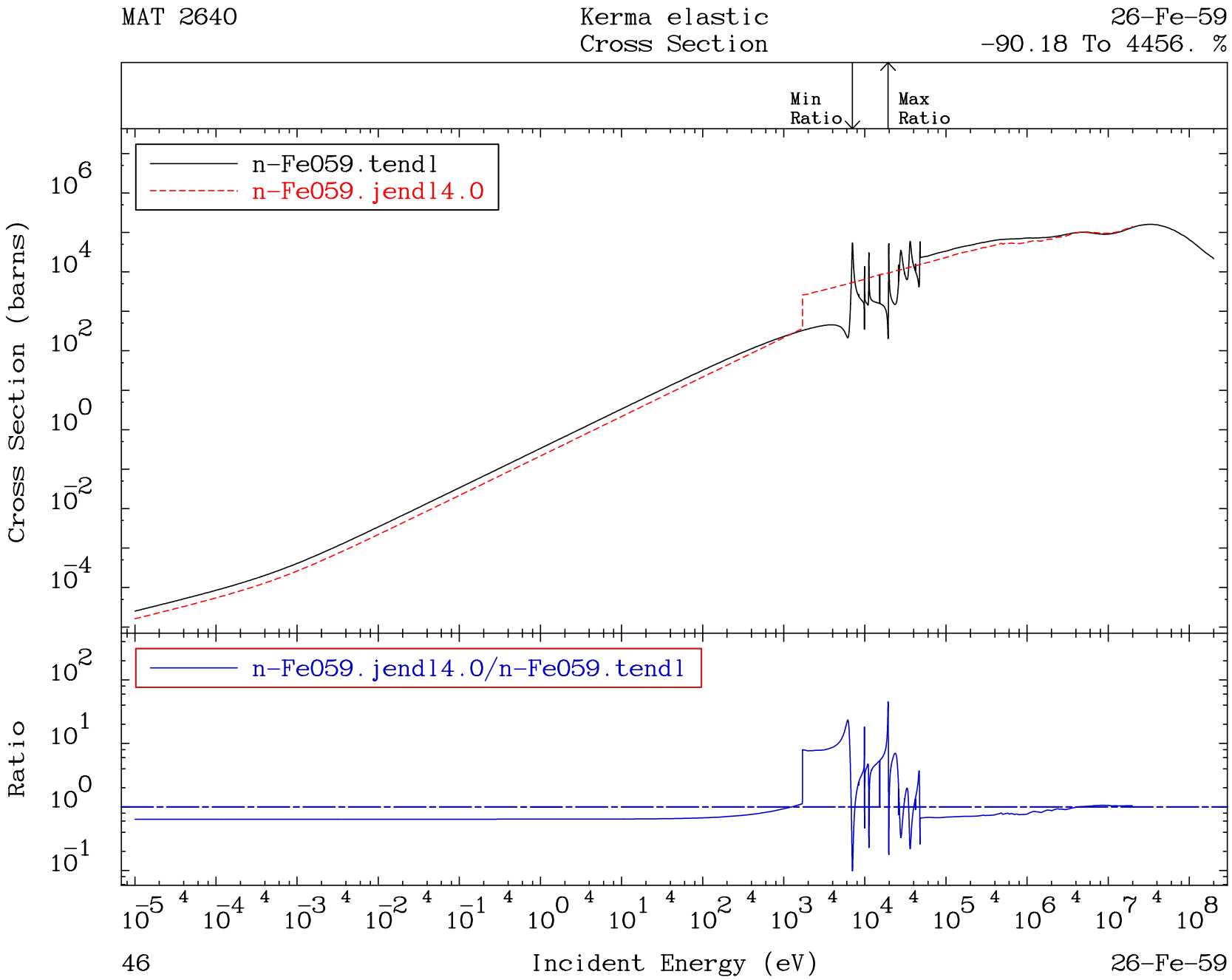

MAT 2640
Deuterium Production
Cross Section
26-Fe-59
8.365 To 1391. %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 10.071 MeV
n-Fe059.jendl4.0 Threshold 11.000 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^1
10^0
2
6
4
2
10^7
2
3
4
5
6
7
8
9
10^8
2
41
Incident Energy (eV)
26-Fe-59

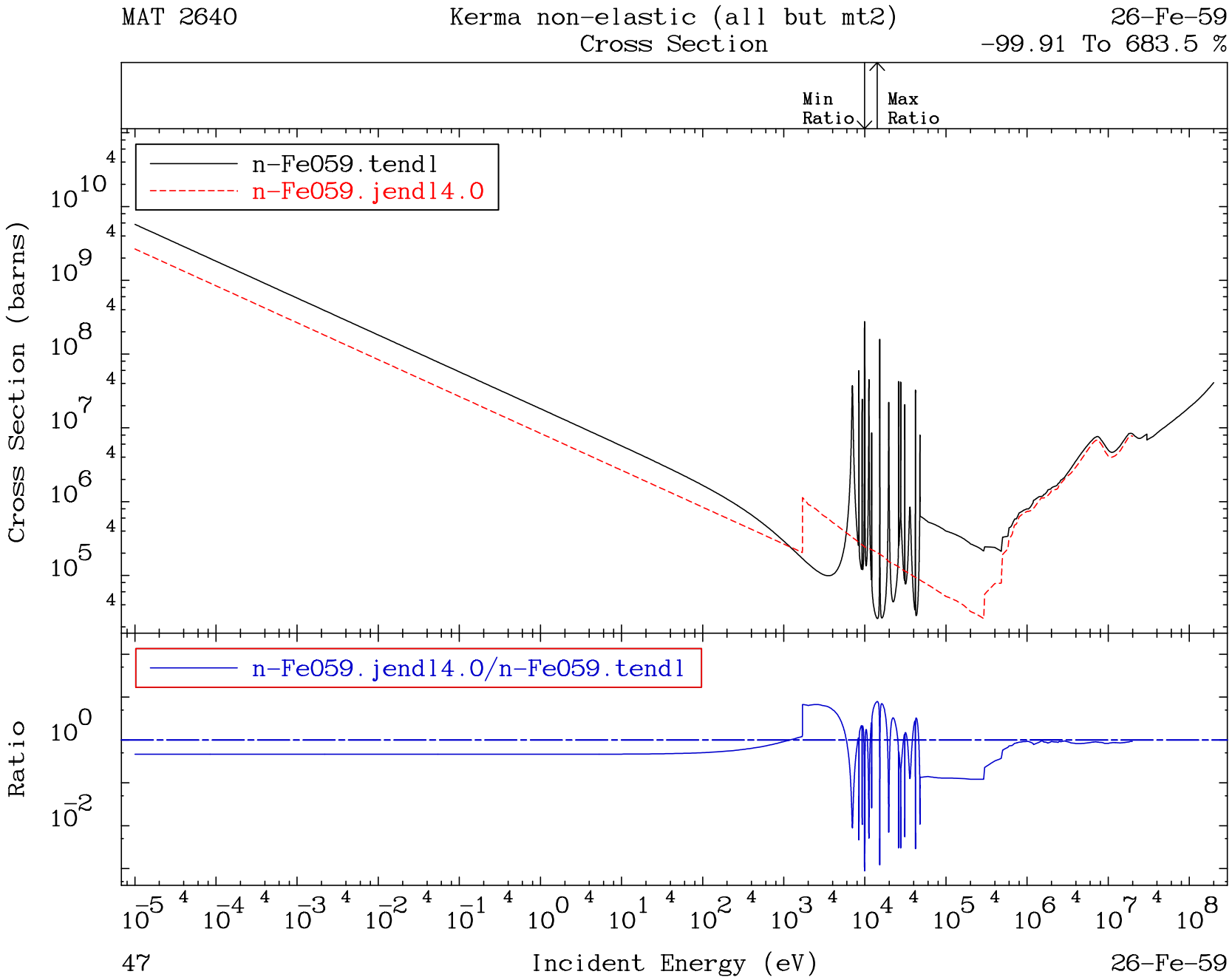

MAT 2640
Tritium Production
Cross Section
26-Fe-59
-50.56 To 756.6 %
Max Ratio
Min Ratio
n-Fe059.tendl Threshold 10.229 MeV
n-Fe059.jendl4.0 Threshold 11.000 MeV
Cross Section (milli-barns)
0
20
40
60
80
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^1
10^0
6
4
6
4
10^7
2
3
4
5
6
7
8
9
10^8
2
42
Incident Energy (eV)
26-Fe-59

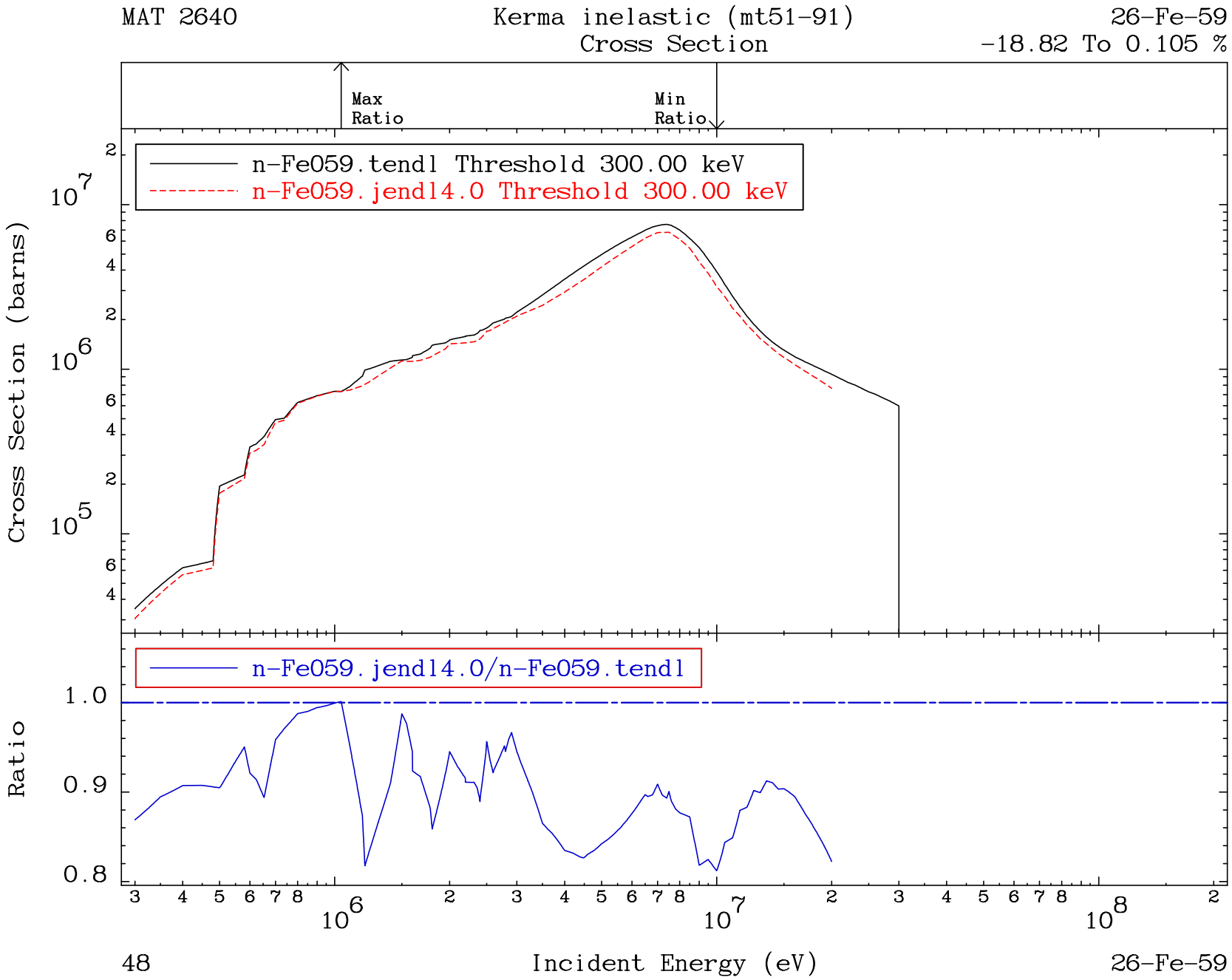

MAT 2640
He-3 Production
Cross Section
26-Fe-59
709.8 To 2088. %
Max Ratio
Min Ratio
n-Fe059.tendl Threshold 15.257 MeV
n-Fe059.jendl4.0 Threshold 18.000 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
24
18
12
2
3
4
5
6
7
8
9
10^8
2
43
Incident Energy (eV)
26-Fe-59

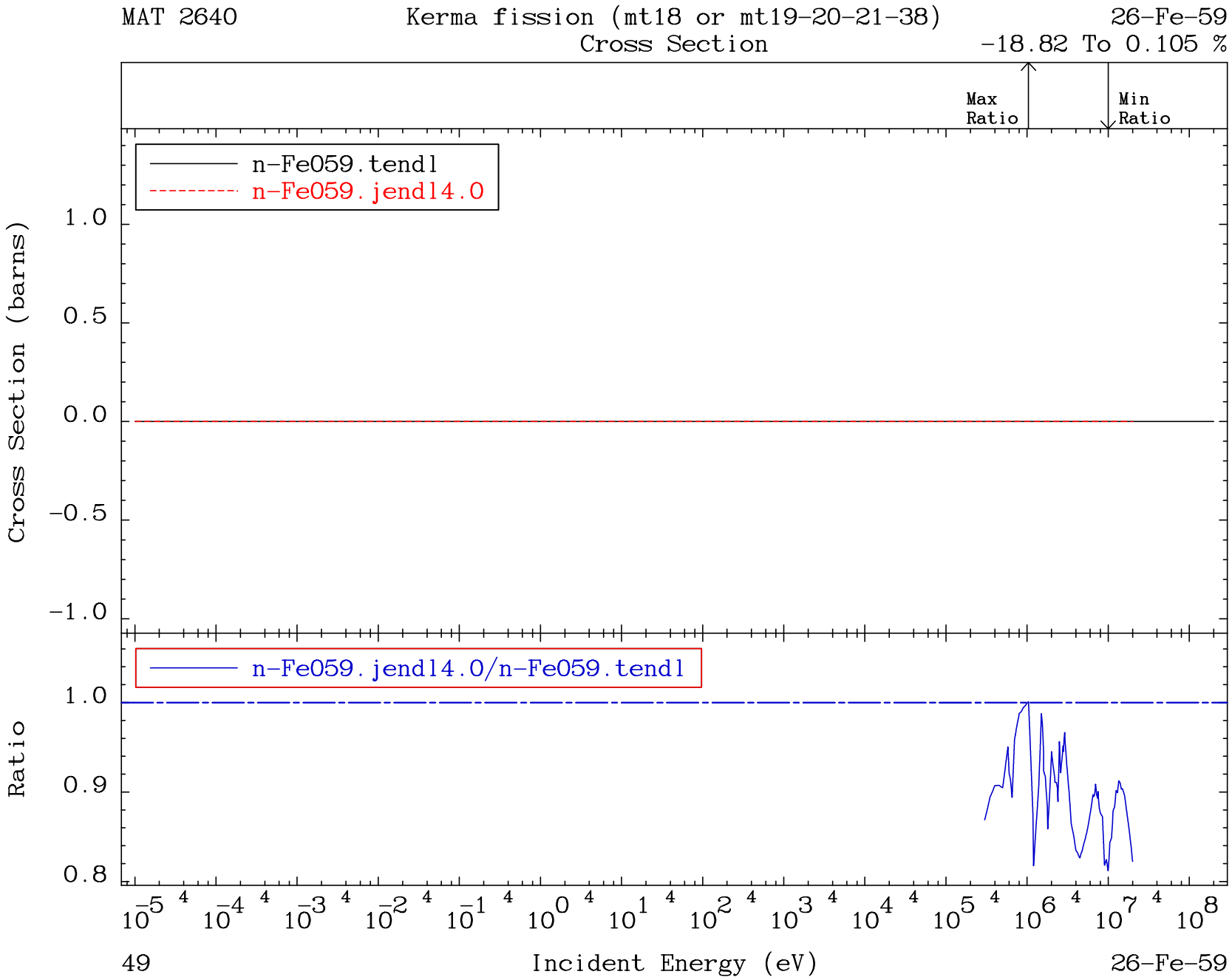

MAT 2640
He-4 Production
Cross Section
26-Fe-59
-53.53 To 378.7 %
Max Ratio
Min Ratio
n-Fe059.tendl Threshold 47.947 keV
n-Fe059.jendl4.0 Threshold 3.5000 MeV
Cross Section (milli-barns)
160
120
80
40
0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^0
6
4
2
6
4
5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
44
Incident Energy (eV)
26-Fe-59

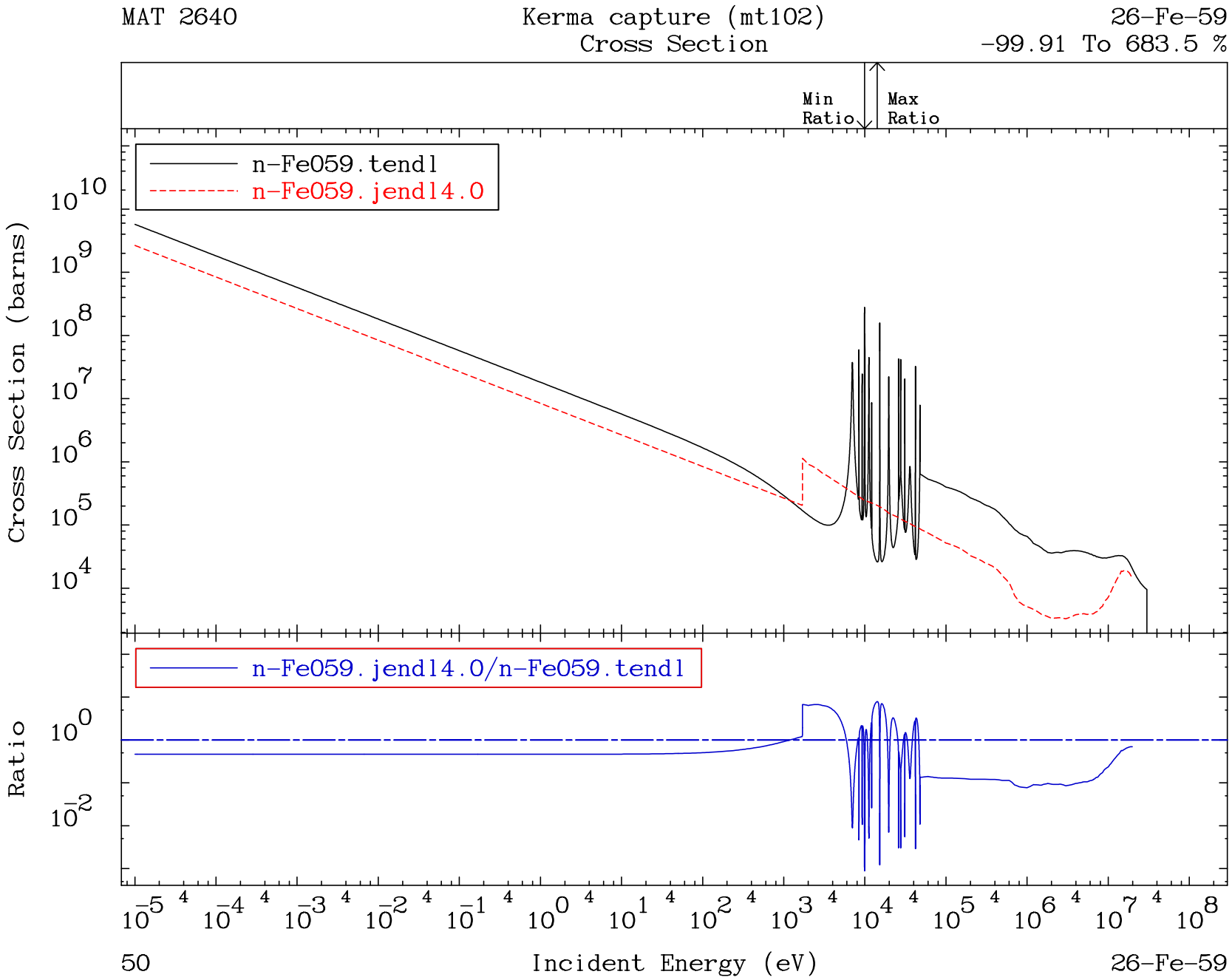

MAT 2640
Kerma total (eV-barns)
Cross Section
26-Fe-59
-99.91 To 665.9 %
Min Ratio
Max Ratio
n-Fe059.tendl
n-Fe059.jendl4.0
Cross Section (barns)
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
Incident Energy (eV)
45
26-Fe-59

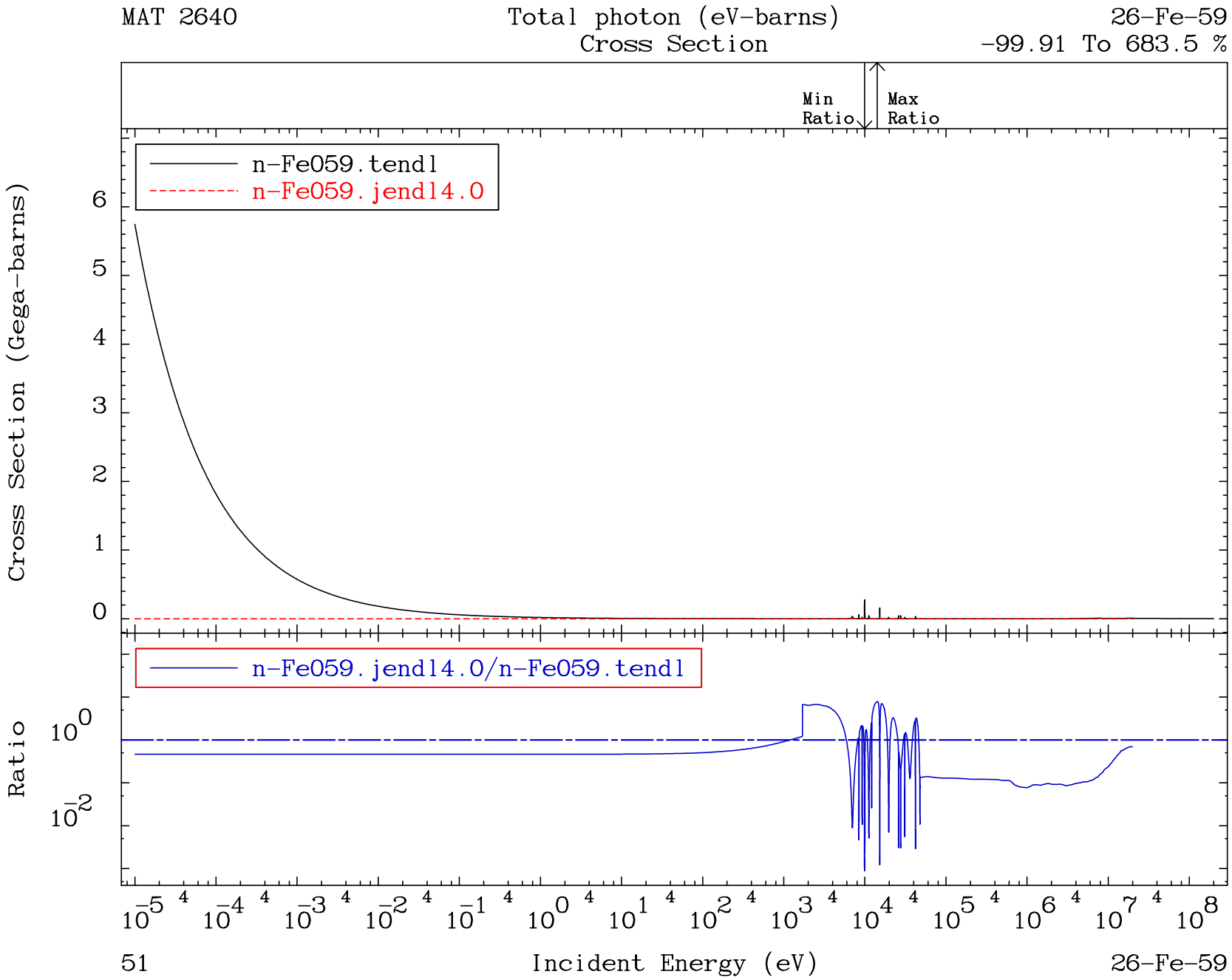

MAT 2640
Kerma elastic
Cross Section
26-Fe-59
-90.18 To 4456. %
Min Ratio
Max Ratio
n-Fe059.tendl
n-Fe059.jendl4.0
Cross Section (barns)
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
Incident Energy (eV)
46
26-Fe-59

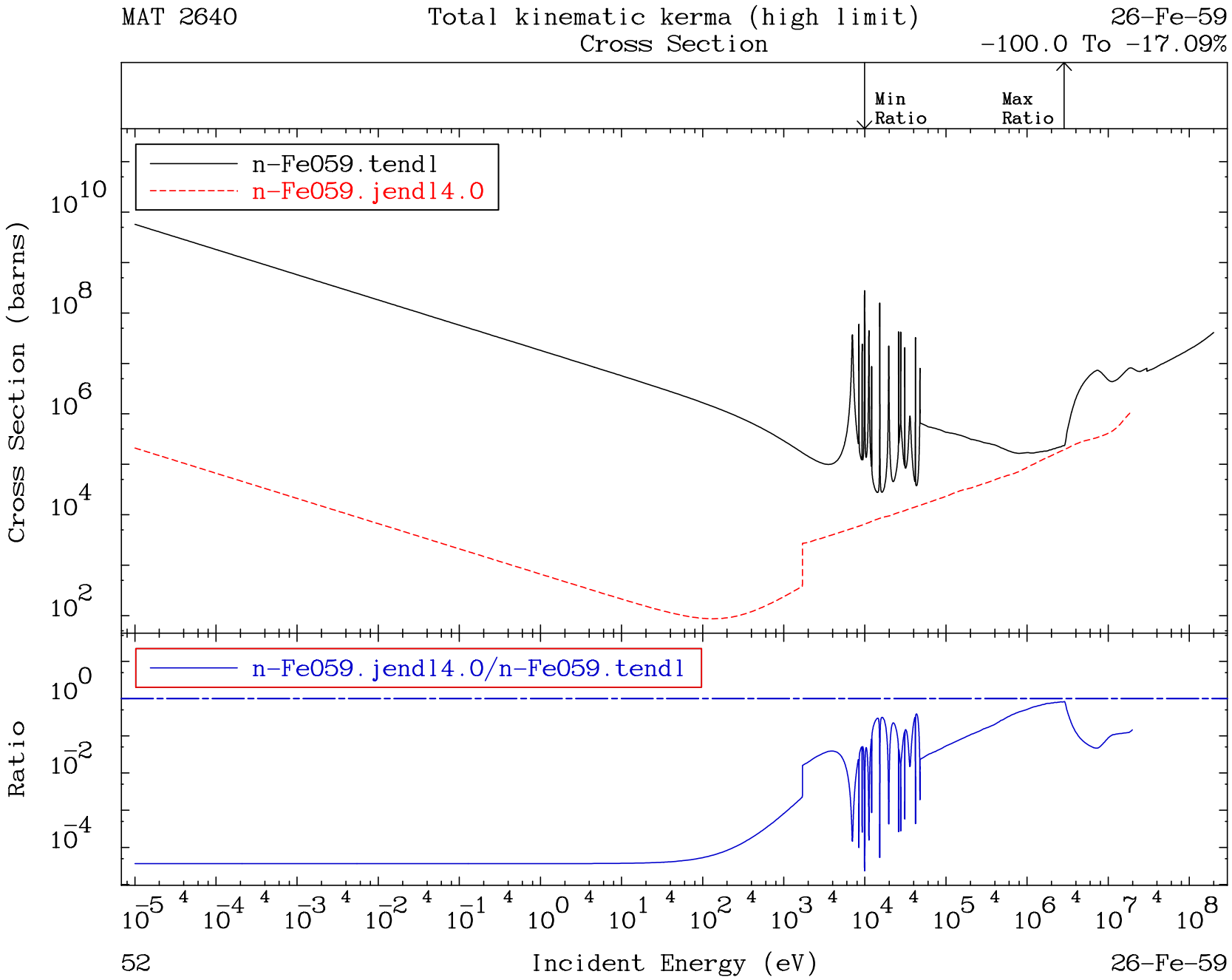

MAT 2640
Kerma non-elastic (all but mt2)
Cross Section
26-Fe-59
-99.91 To 683.5 %
Min Ratio
Max Ratio
n-Fe059.tendl
n-Fe059.jendl4.0
Cross Section (barns)
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
Incident Energy (eV)
47
26-Fe-59

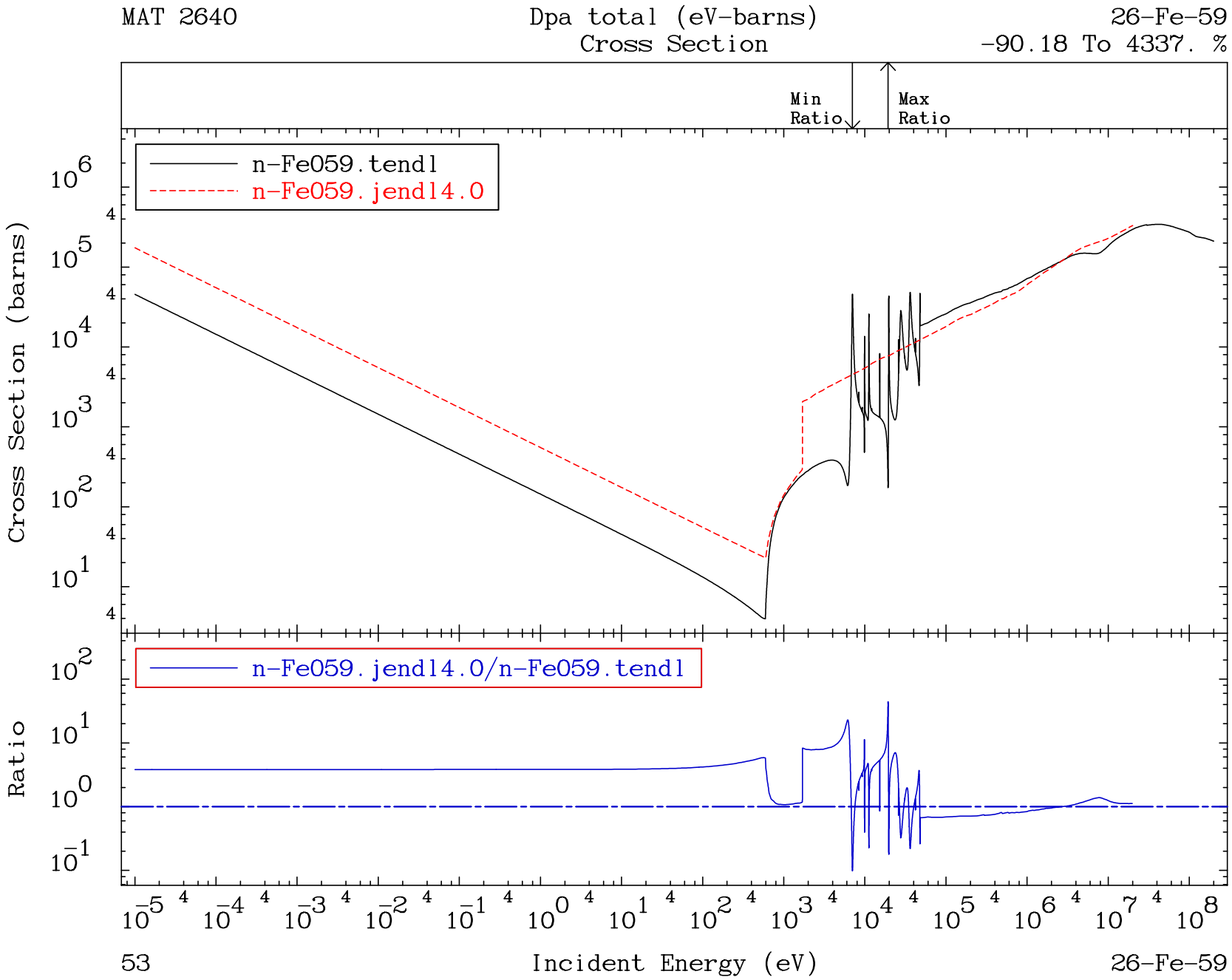

MAT 2640
Kerma inelastic (mt51-91)
Cross Section
26-Fe-59
-18.82 To 0.105 %
Max Ratio
Min Ratio
n-Fe059.tendl Threshold 300.00 keV
n-Fe059.jendl4.0 Threshold 300.00 keV
Cross Section (barns)
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
Incident Energy (eV)
48
26-Fe-59

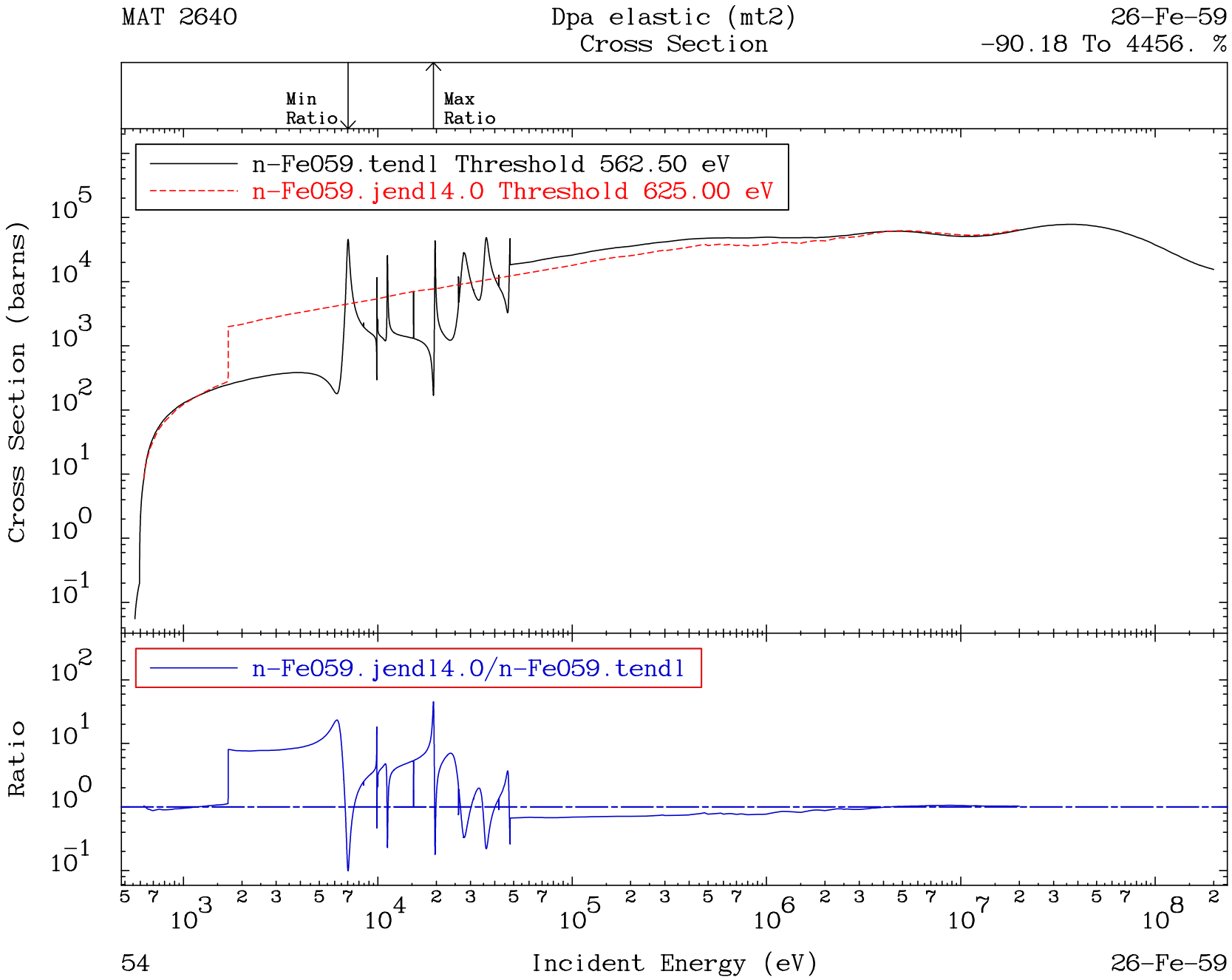

MAT 2640
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
26-Fe-59
-18.82 To 0.105 %
Max Ratio
Min Ratio
n-Fe059.tendl
n-Fe059.jendl4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
1.0
0.9
0.8
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
49
Incident Energy (eV)
26-Fe-59

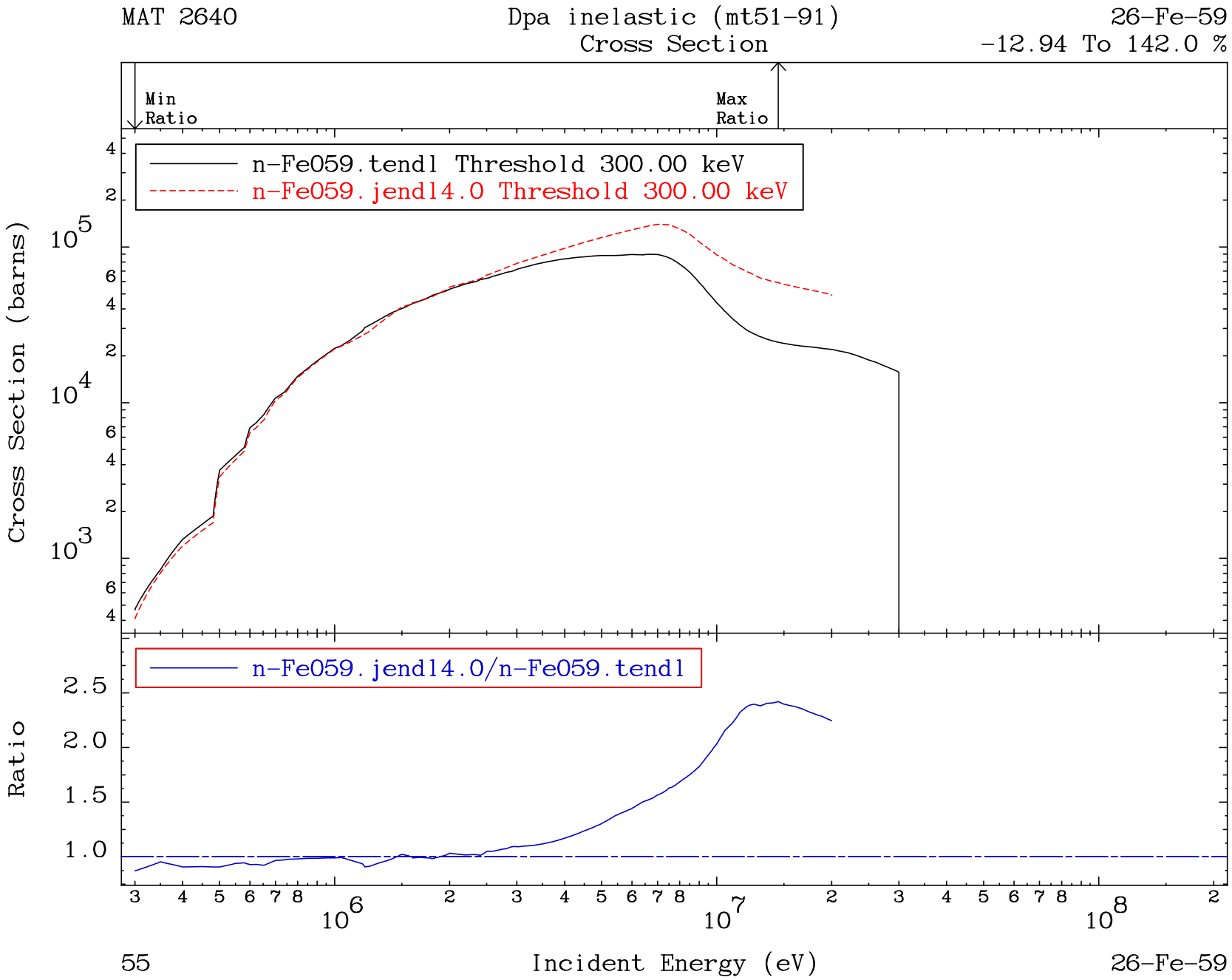

MAT 2640
Kerma capture (mt102)
Cross Section
26-Fe-59
-99.91 To 683.5 %
Min Ratio
Max Ratio
n-Fe059.tendl
n-Fe059.jendl4.0
Cross Section (barns)
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
Incident Energy (eV)
50
26-Fe-59

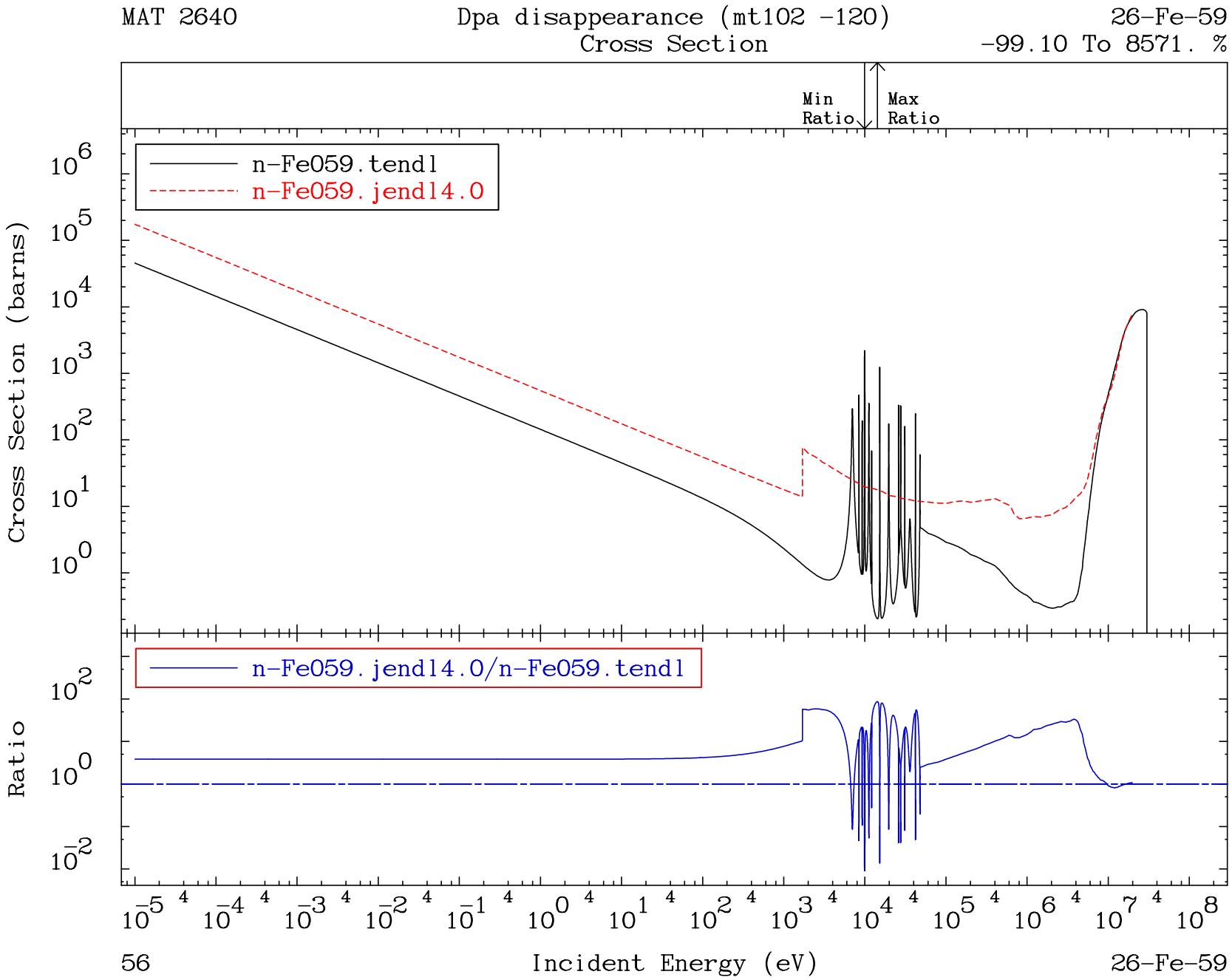

MAT 2640
Total photon (eV-barns)
Cross Section
26-Fe-59
-99.91 To 683.5 %
Min Ratio
Max Ratio
n-Fe059.tendl
n-Fe059.jendl4.0
Cross Section (Giga-barns)
0
1
2
3
4
5
6
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
10^0
10^-2
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1
10^2
10^3
10^4
10^5
10^6
10^7
10^8
51
Incident Energy (eV)
26-Fe-59


MAT 2640
Total kinematic kerma (high limit)
Cross Section
26-Fe-59
-100.0 To -17.09%
Min Ratio
Max Ratio
n-Fe059.tendl
n-Fe059.jendl4.0
Cross Section (barns)
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
Incident Energy (eV)
52
26-Fe-59


MAT 2640
Dpa total (eV-barns)
Cross Section
26-Fe-59
-90.18 To 4337. %
Min Ratio
Max Ratio
n-Fe059.tendl
n-Fe059.jendl4.0
Cross Section (barns)
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
Incident Energy (eV)
53
26-Fe-59


MAT 2640
Dpa elastic (mt2)
Cross Section
26-Fe-59
-90.18 To 4456. %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 562.50 eV
n-Fe059.jendl4.0 Threshold 625.00 eV
Cross Section (barns)
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
Incident Energy (eV)
54
26-Fe-59


MAT 2640
Dpa inelastic (mt51-91)
Cross Section
26-Fe-59
-12.94 To 142.0 %
Min Ratio
Max Ratio
n-Fe059.tendl Threshold 300.00 keV
n-Fe059.jendl4.0 Threshold 300.00 keV
Cross Section (barns)
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
Incident Energy (eV)
55
26-Fe-59


MAT 2640
Dpa disappearance (mt102 -120)
Cross Section
26-Fe-59
-99.10 To 8571. %
Min Ratio
Max Ratio
n-Fe059.tendl
n-Fe059.jendl4.0
Cross Section (barns)
n-Fe059.jendl4.0/n-Fe059.tendl
Ratio
Incident Energy (eV)
56
26-Fe-59