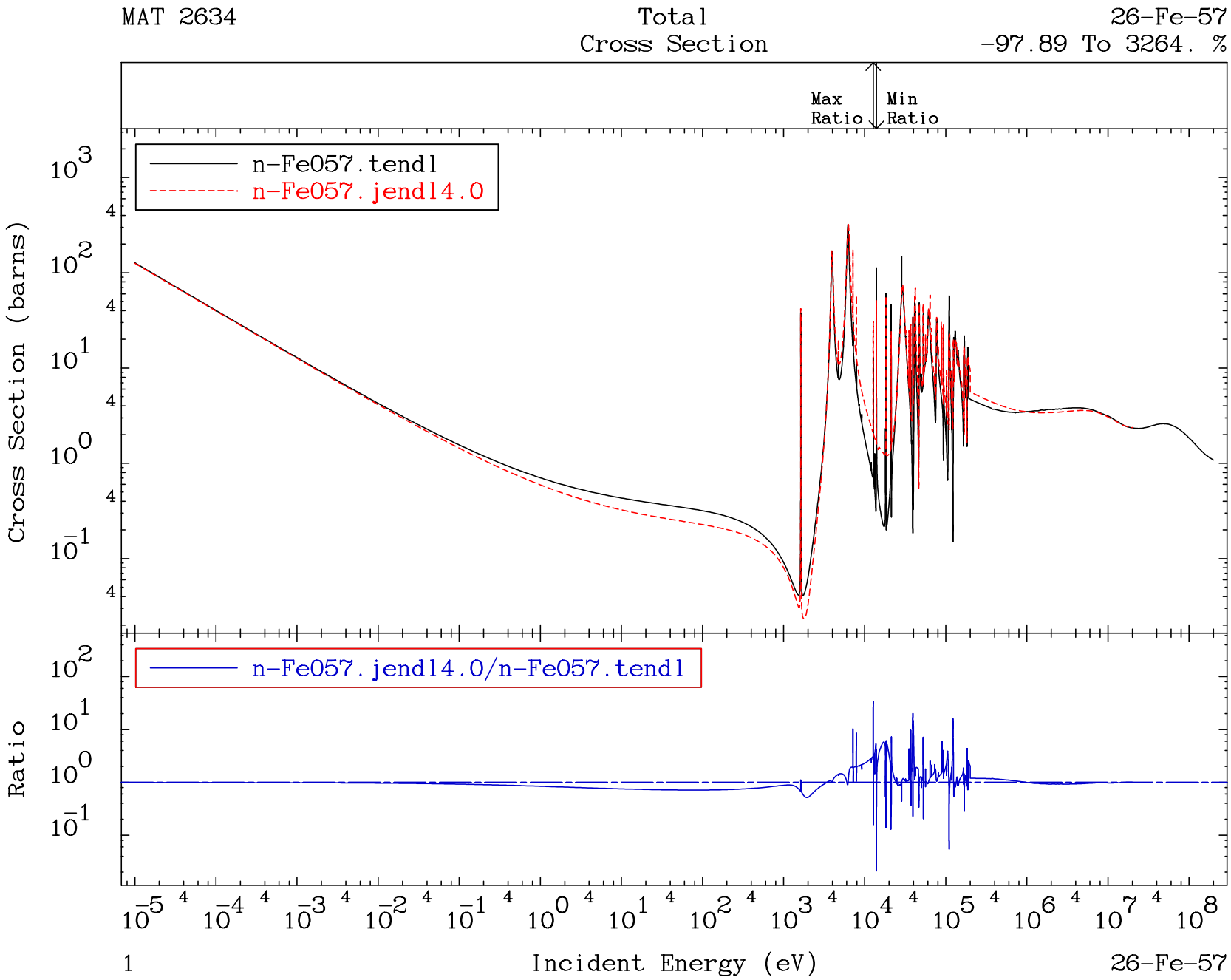
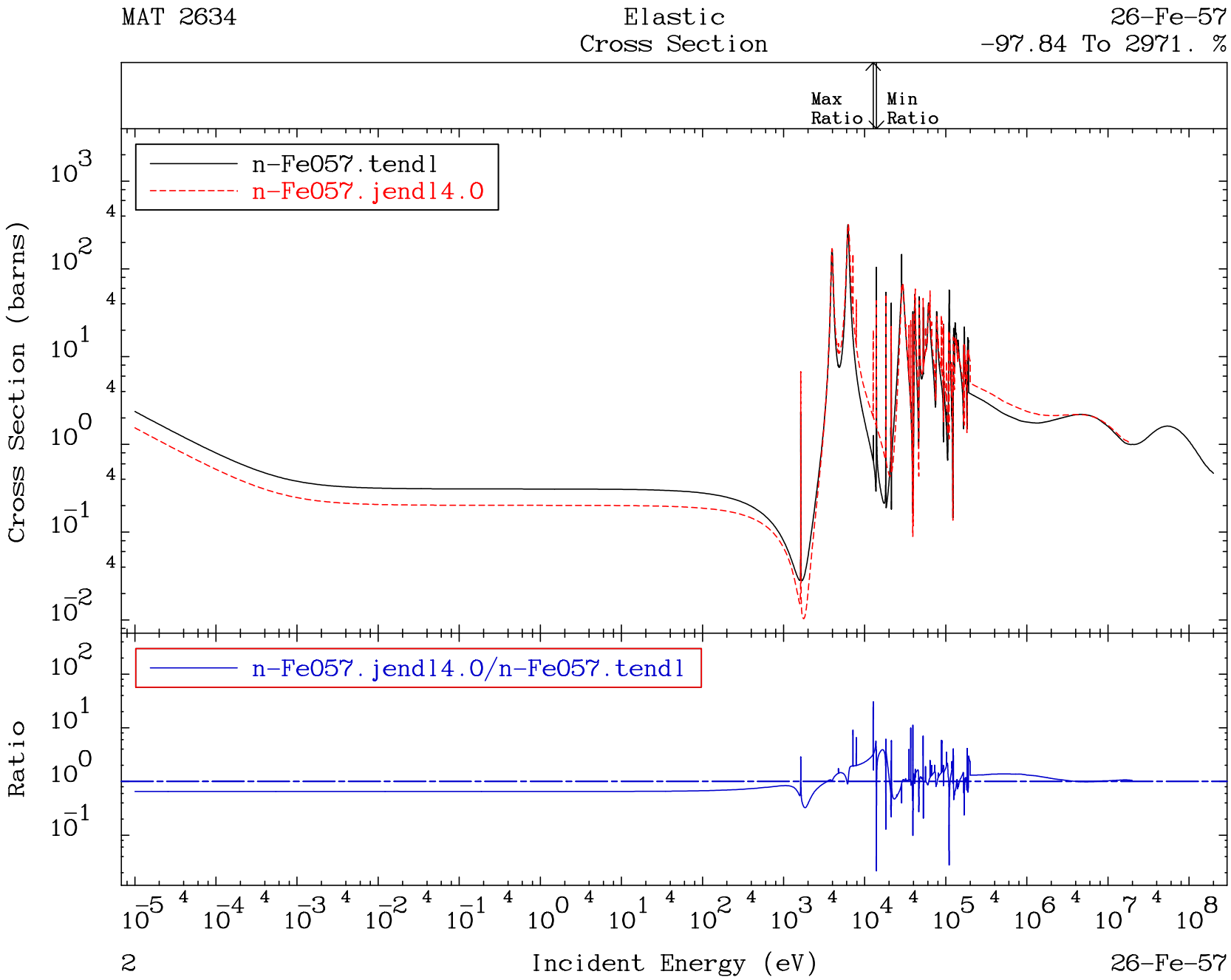
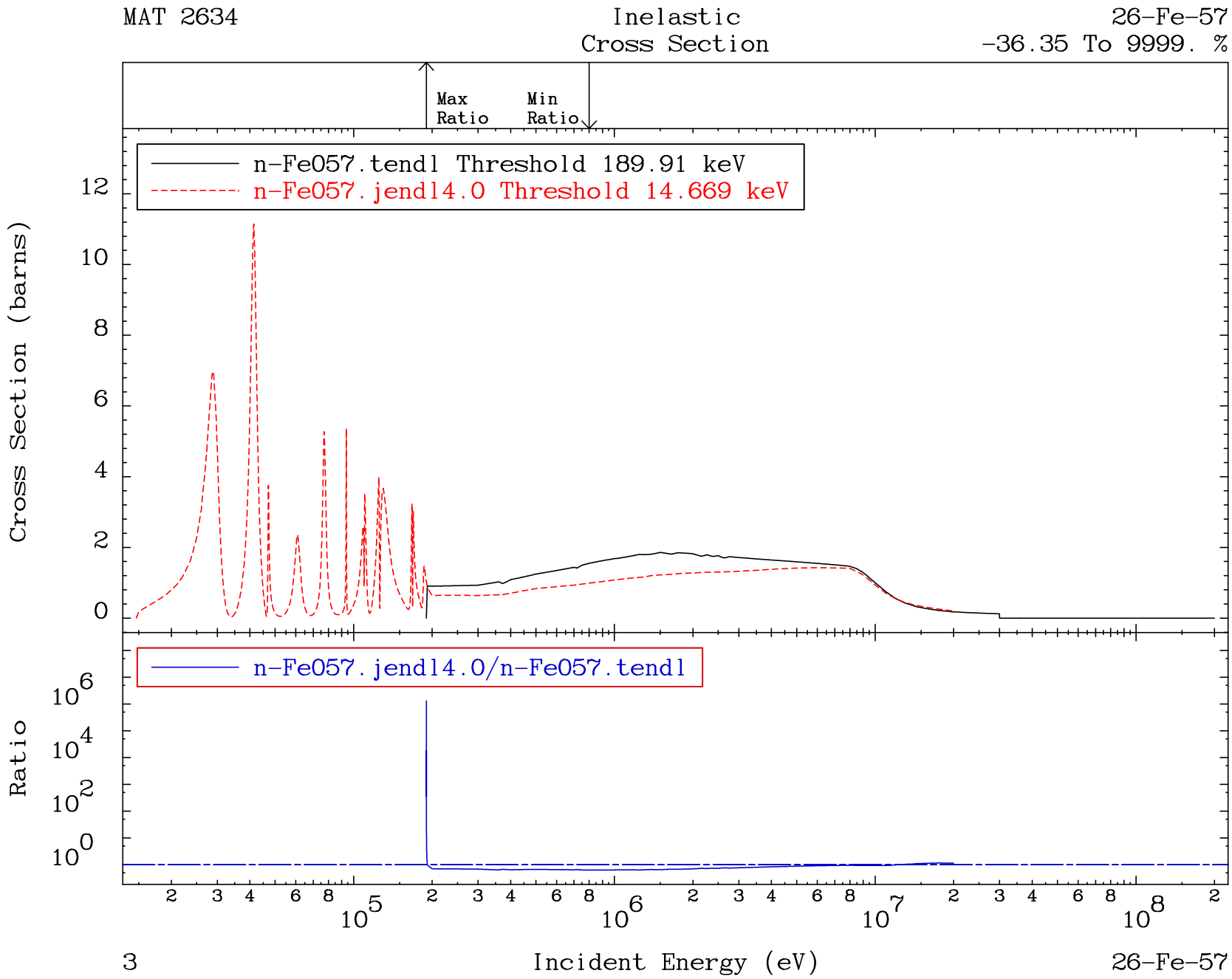
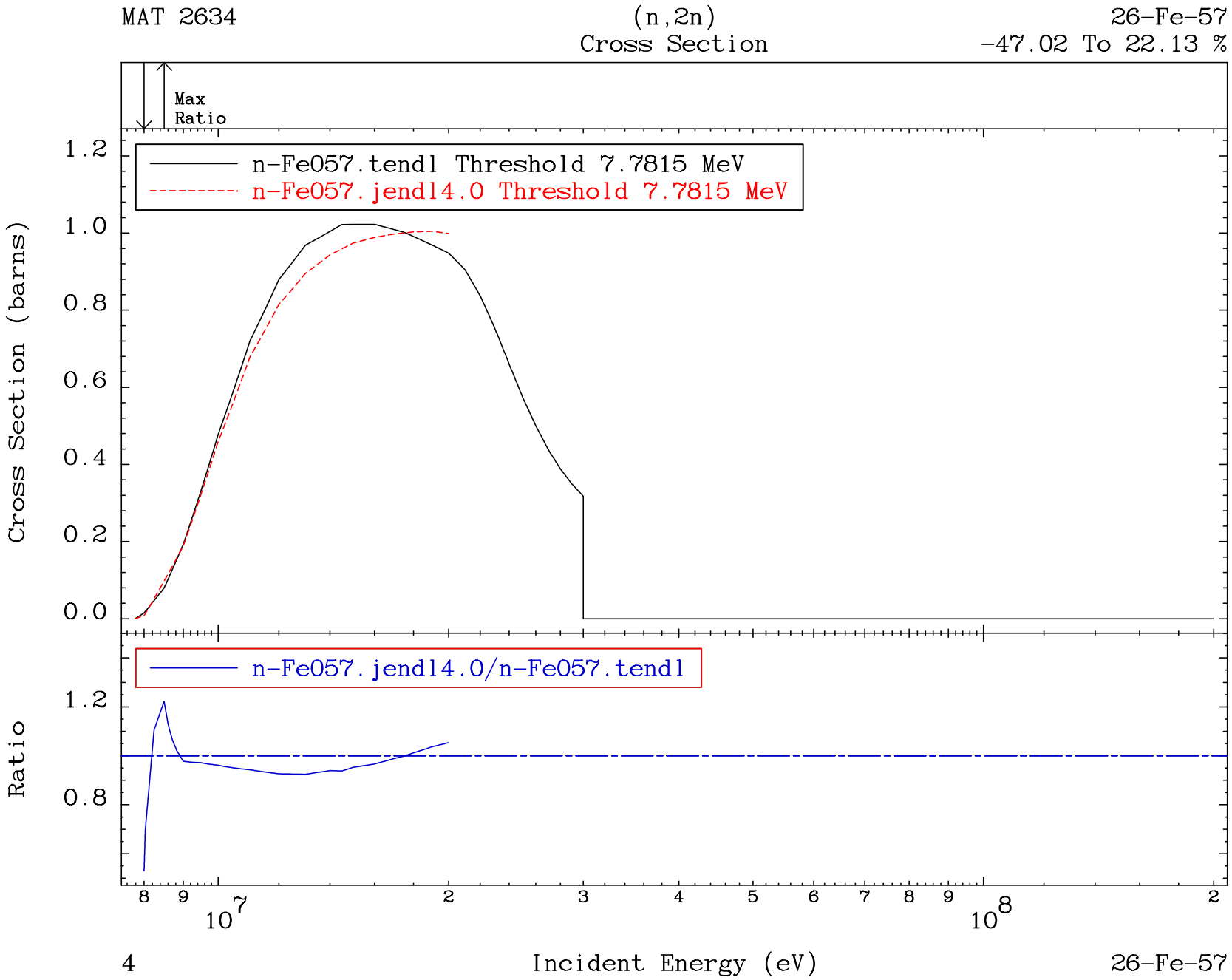
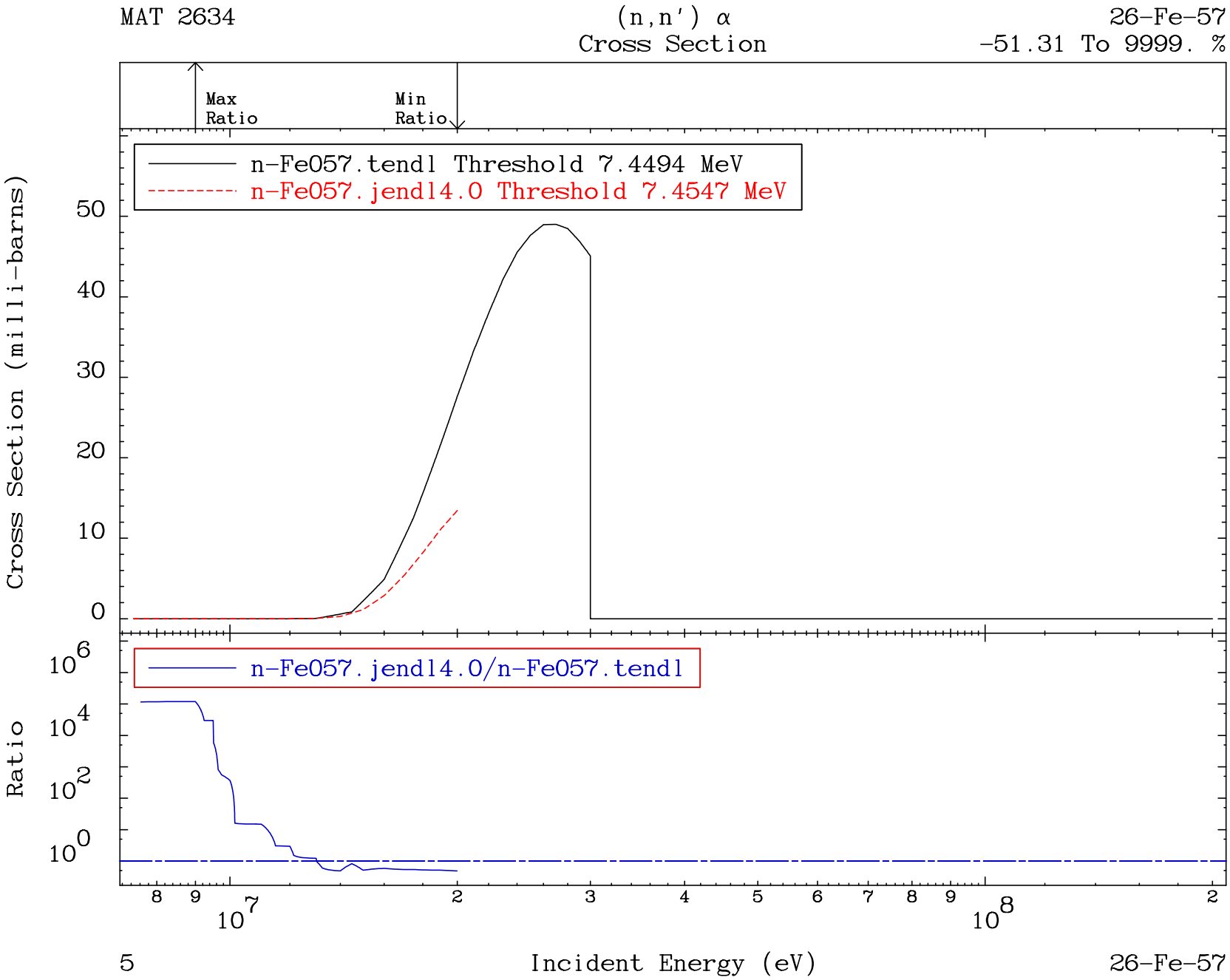
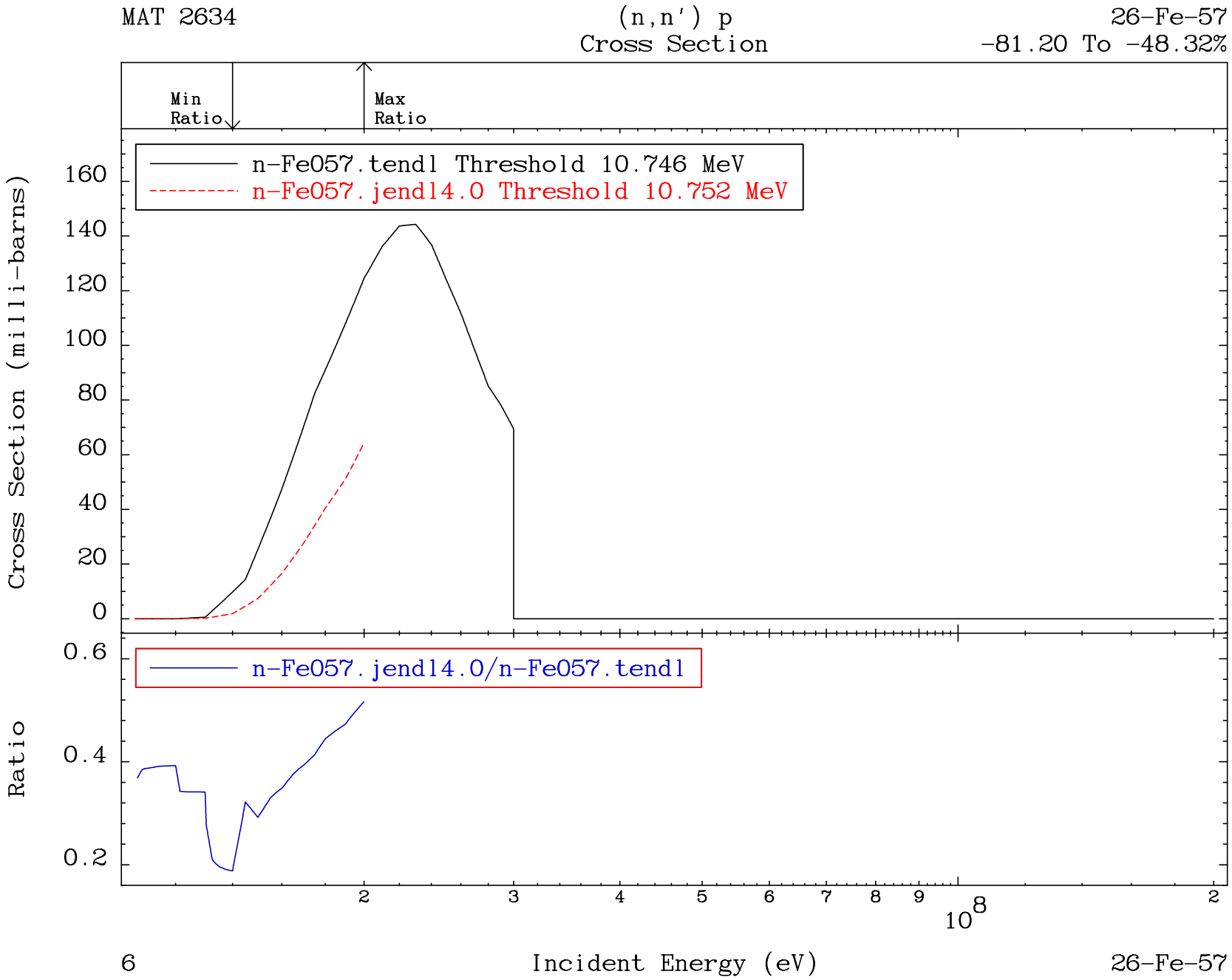

MAT 2634
Total
Cross Section
26-Fe-57
-97.89 To 3264. %
Max Ratio
Min Ratio
n-Fe057.tendl
n-Fe057.jendl4.0
Cross Section (barns)
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
Incident Energy (eV)
1
26-Fe-57

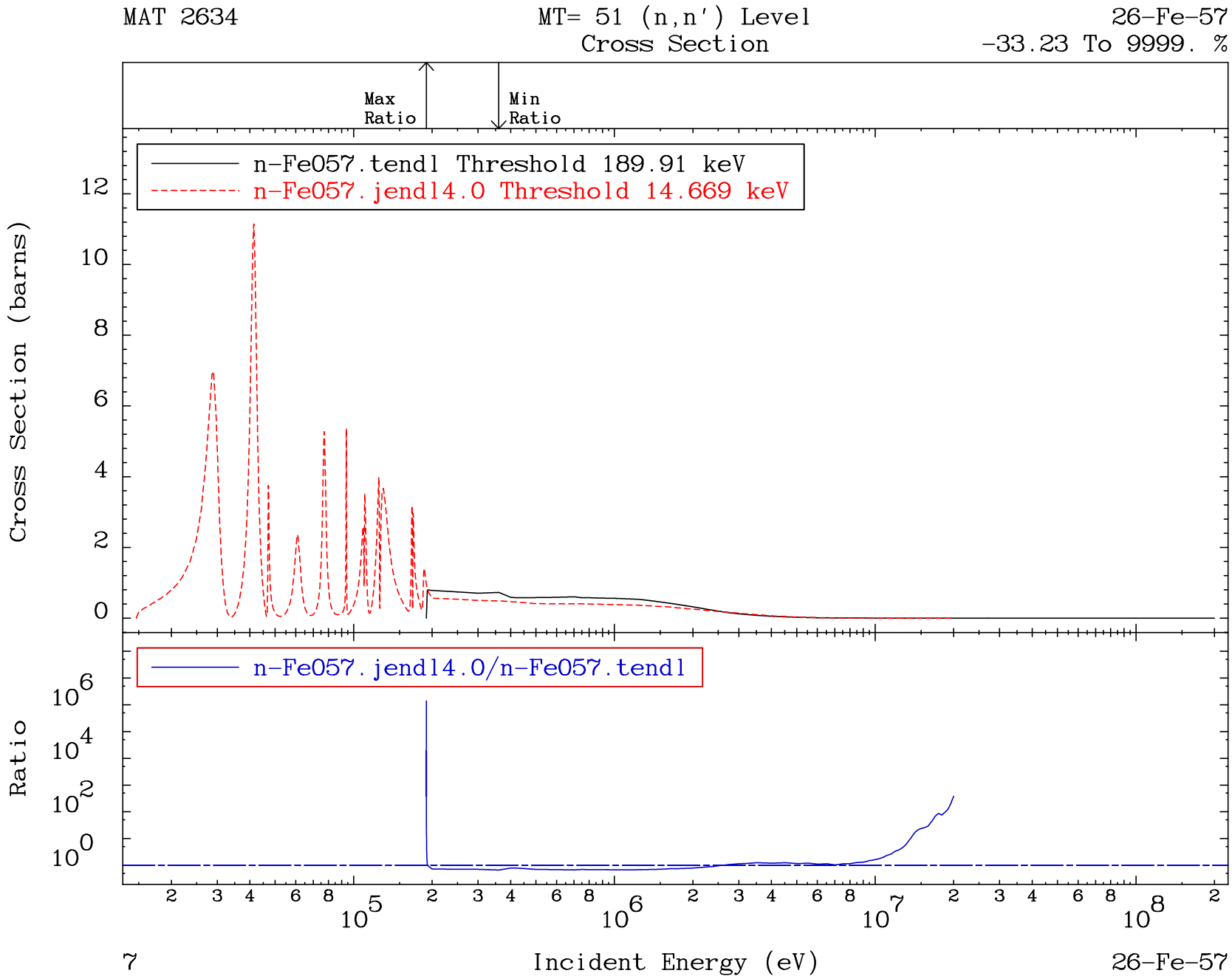

MAT 2634
Elastic
Cross Section
26-Fe-57
-97.84 To 2971. %
Max Ratio
Min Ratio
n-Fe057.tendl
n-Fe057.jendl4.0
Cross Section (barns)
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
Incident Energy (eV)
2
26-Fe-57

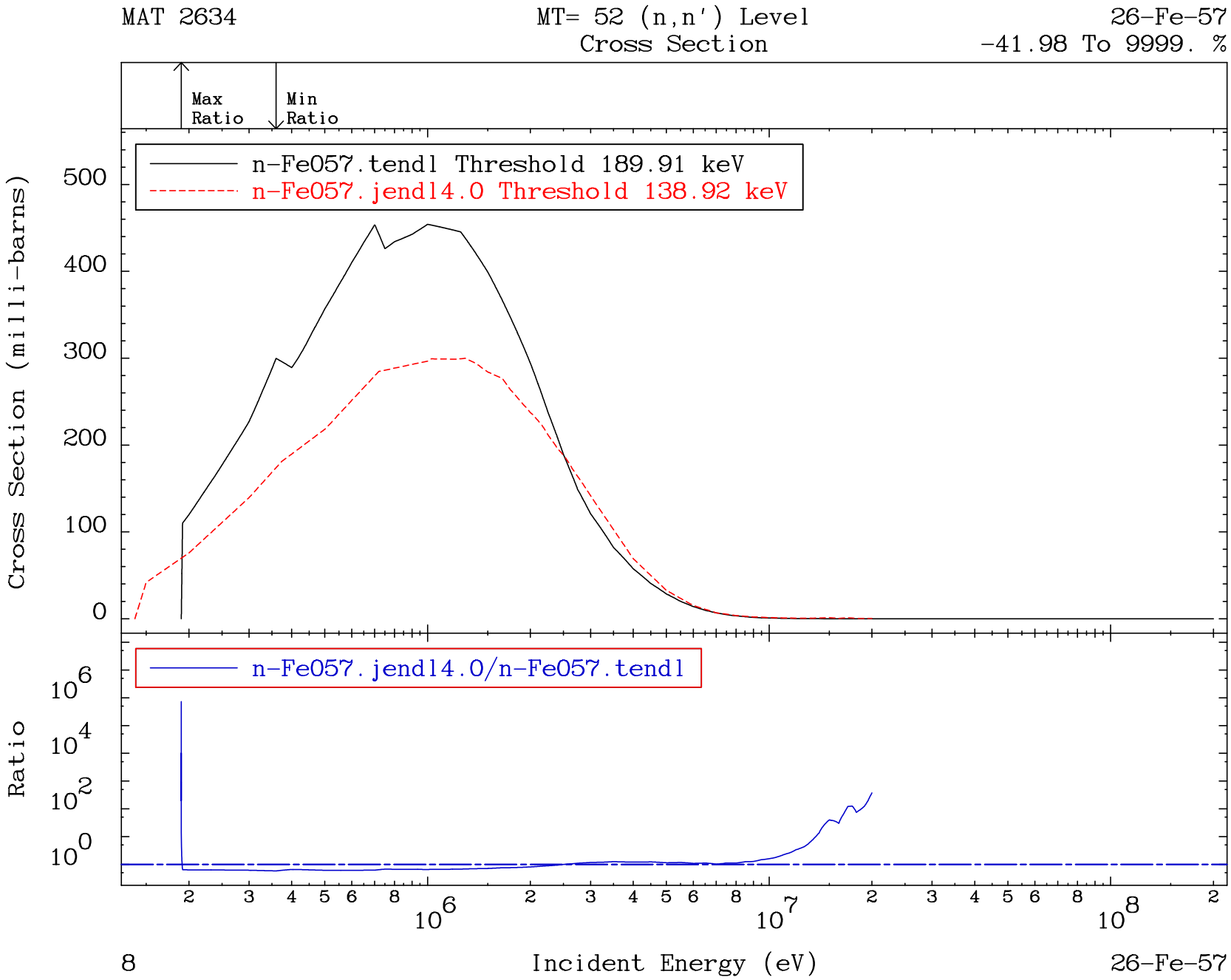

MAT 2634
Inelastic
Cross Section
26-Fe-57
-36.35 To 9999. %
Max Ratio
Min Ratio
n-Fe057.tendl Threshold 189.91 keV
n-Fe057.jendl4.0 Threshold 14.669 keV
Cross Section (barns)
0
2
4
6
8
10
12
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^0
10^2
10^4
10^6
2 3 4 6 8 10^5 2 3 4 6 8 10^6 2 3 4 6 8 10^7 2 3 4 6 8 10^8 2
3
Incident Energy (eV)
26-Fe-57

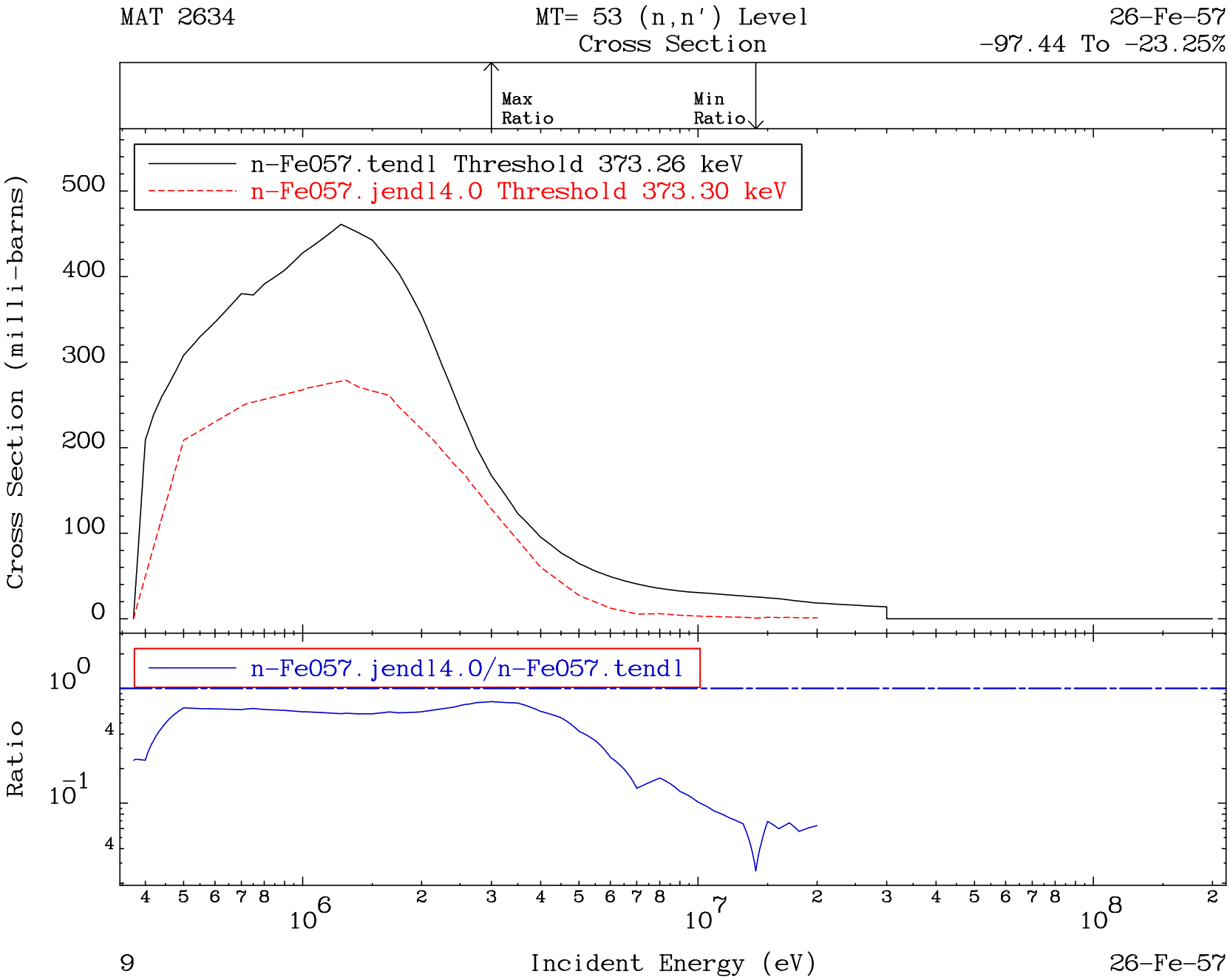

MAT 2634
(n,2n)
Cross Section
26-Fe-57
-47.02 To 22.13 %
Max
Ratio
n-Fe057.tendl Threshold 7.7815 MeV
n-Fe057.jendl4.0 Threshold 7.7815 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
1.2
0.8
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
26-Fe-57

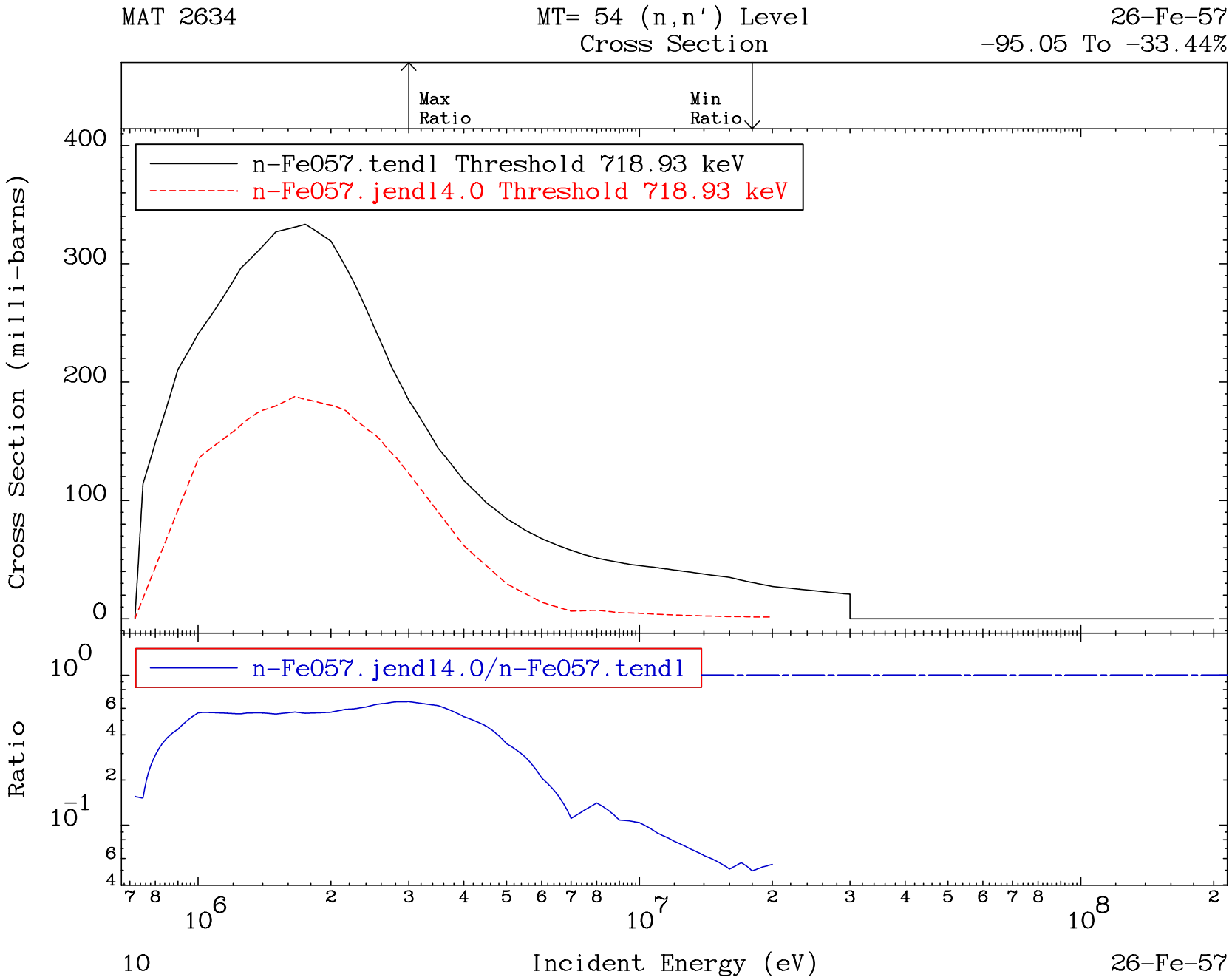

MAT 2634
(n,n') α
Cross Section
26-Fe-57
-51.31 To 9999. %
Max Ratio
Min Ratio
n-Fe057.tendl Threshold 7.4494 MeV
n-Fe057.jendl4.0 Threshold 7.4547 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^6
10^4
10^2
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
26-Fe-57

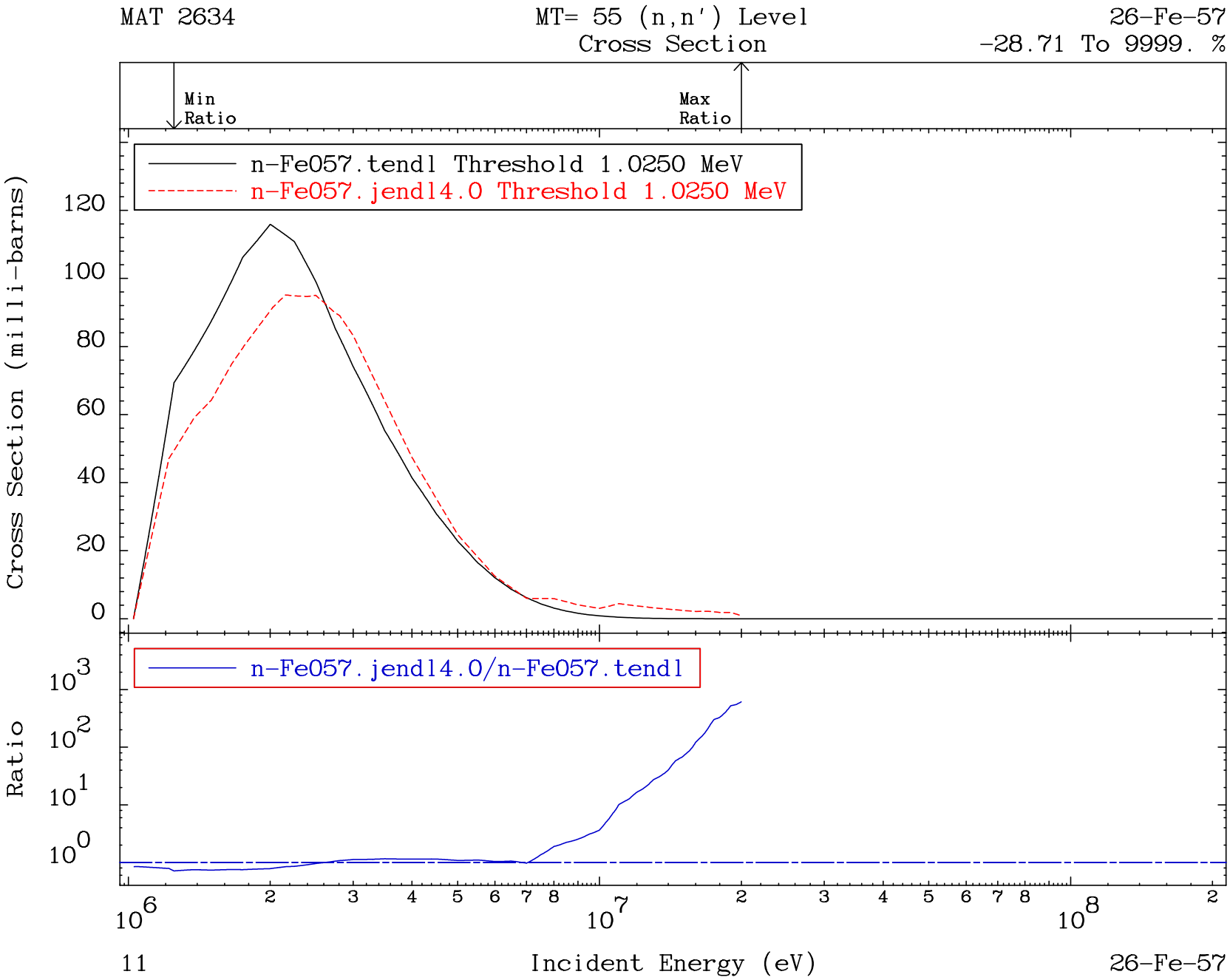

MAT 2634
(n,n') p
Cross Section
26-Fe-57
-81.20 To -48.32%
Min Ratio
Max Ratio
n-Fe057.tendl Threshold 10.746 MeV
n-Fe057.jendl4.0 Threshold 10.752 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
0.6
0.4
0.2
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
26-Fe-57

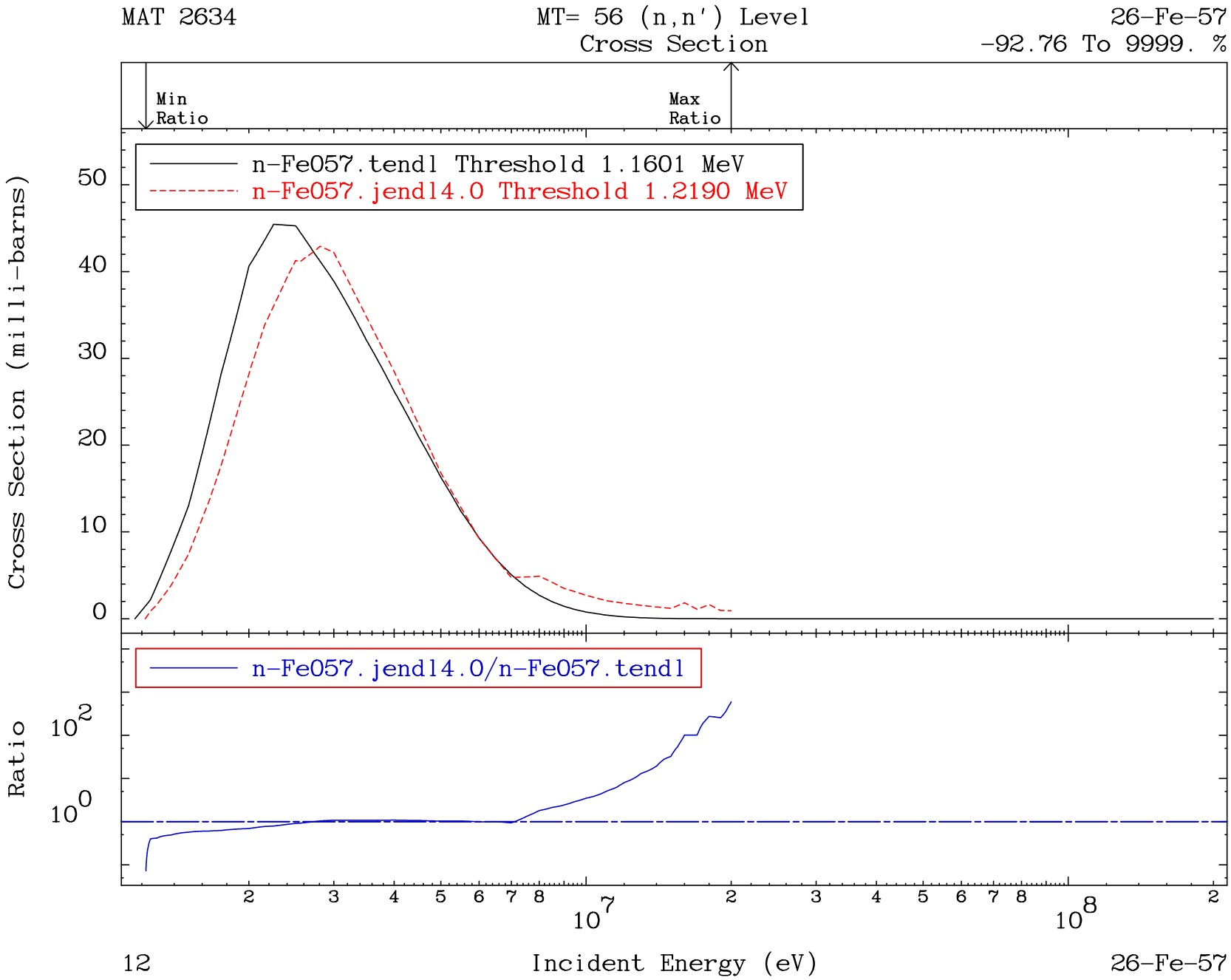

MAT 2634
MT= 51 (n,n') Level
Cross Section
26-Fe-57
-33.23 To 9999. %
Max Ratio
Min Ratio
n-Fe057.tendl Threshold 189.91 keV
n-Fe057.jendl4.0 Threshold 14.669 keV
Cross Section (barns)
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
Incident Energy (eV)
7
26-Fe-57

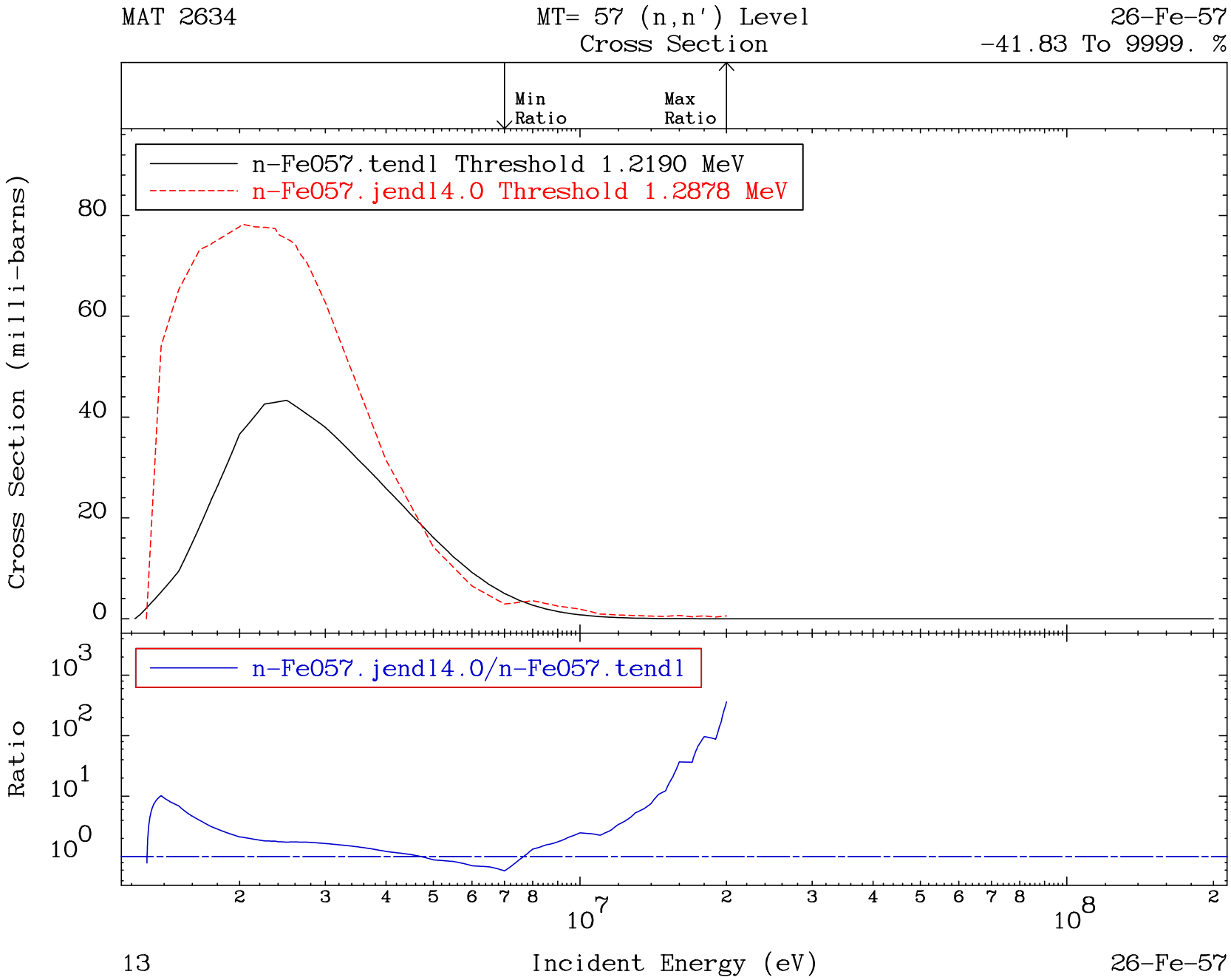

MAT 2634
MT= 52 (n,n') Level
Cross Section
26-Fe-57
-41.98 To 9999. %
Max Ratio
Min Ratio
n-Fe057.tendl Threshold 189.91 keV
n-Fe057.jendl4.0 Threshold 138.92 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^6
10^4
10^2
10^0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
8
Incident Energy (eV)
26-Fe-57

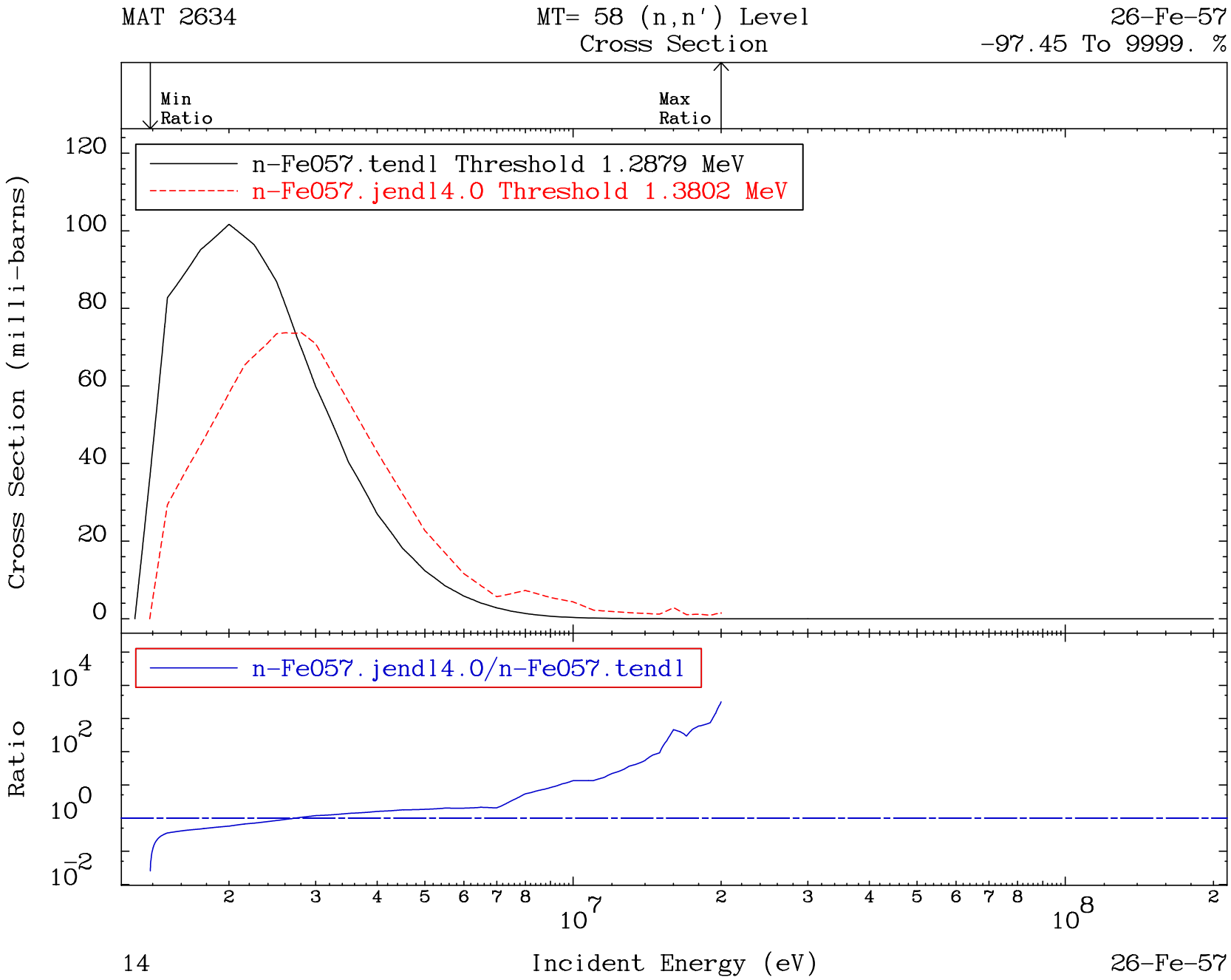

MAT 2634
MT= 53 (n,n') Level
Cross Section
26-Fe-57
-97.44 To -23.25%
Max Ratio
Min Ratio
n-Fe057.tendl Threshold 373.26 keV
n-Fe057.jendl4.0 Threshold 373.30 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^0
10^-1
4
4
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
9
Incident Energy (eV)
26-Fe-57

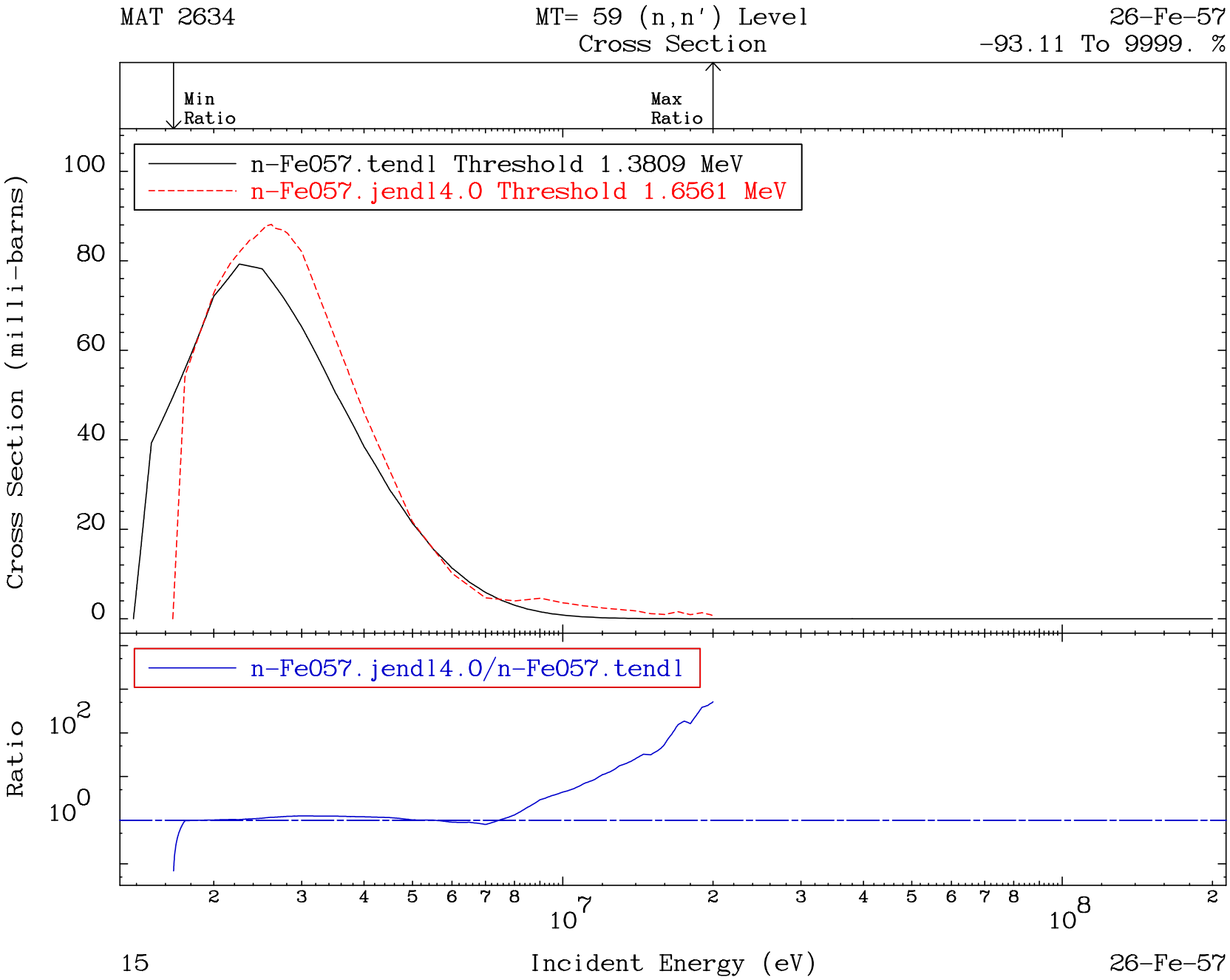

MAT 2634
MT= 54 (n,n') Level
Cross Section
26-Fe-57
-95.05 To -33.44%
Max
Ratio
Min
Ratio
n-Fe057.tendl Threshold 718.93 keV
n-Fe057.jendl4.0 Threshold 718.93 keV
Cross Section (milli-barns)
400
300
200
100
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^0
10^-1
6
4
2
6
4
7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
10
Incident Energy (eV)
26-Fe-57

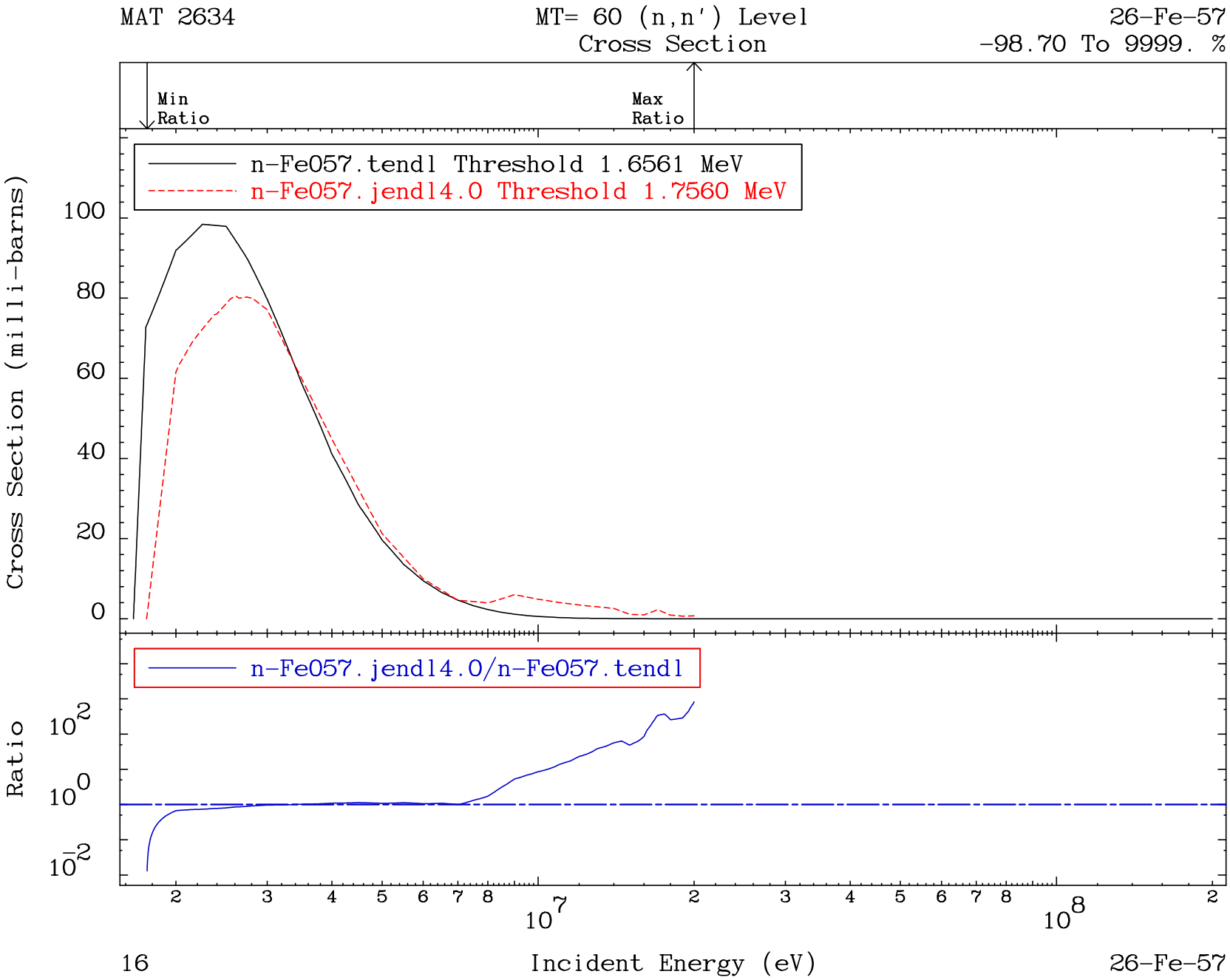

MAT 2634
MT= 55 (n,n') Level
Cross Section
26-Fe-57
-28.71 To 9999. %
Min Ratio
Max Ratio
n-Fe057.tendl Threshold 1.0250 MeV
n-Fe057.jendl4.0 Threshold 1.0250 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^3
10^2
10^1
10^0
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
26-Fe-57

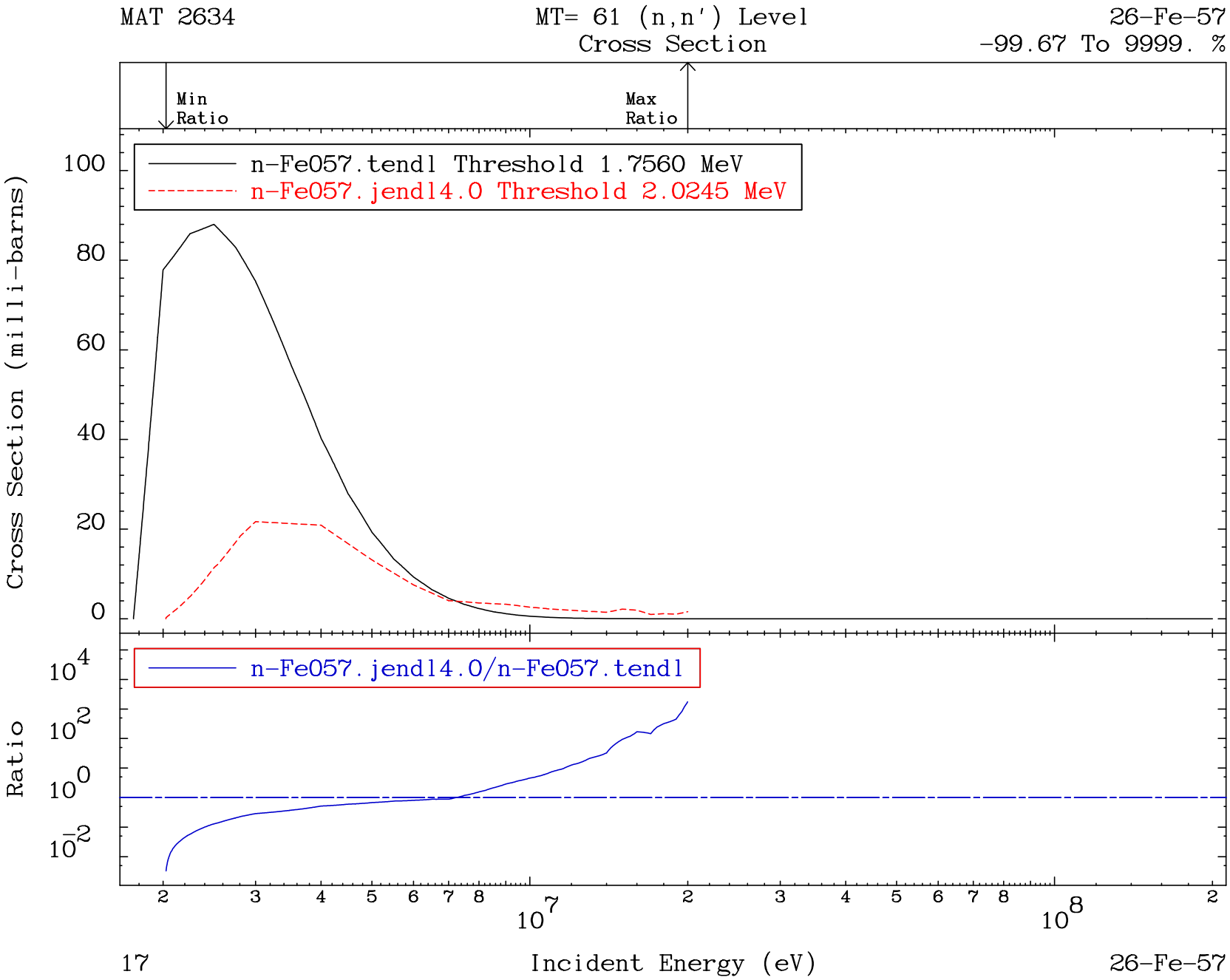

MAT 2634
MT= 56 (n,n') Level
Cross Section
26-Fe-57
-92.76 To 9999. %
Min
Ratio
Max
Ratio
n-Fe057.tendl Threshold 1.1601 MeV
n-Fe057.jendl4.0 Threshold 1.2190 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^2
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
26-Fe-57

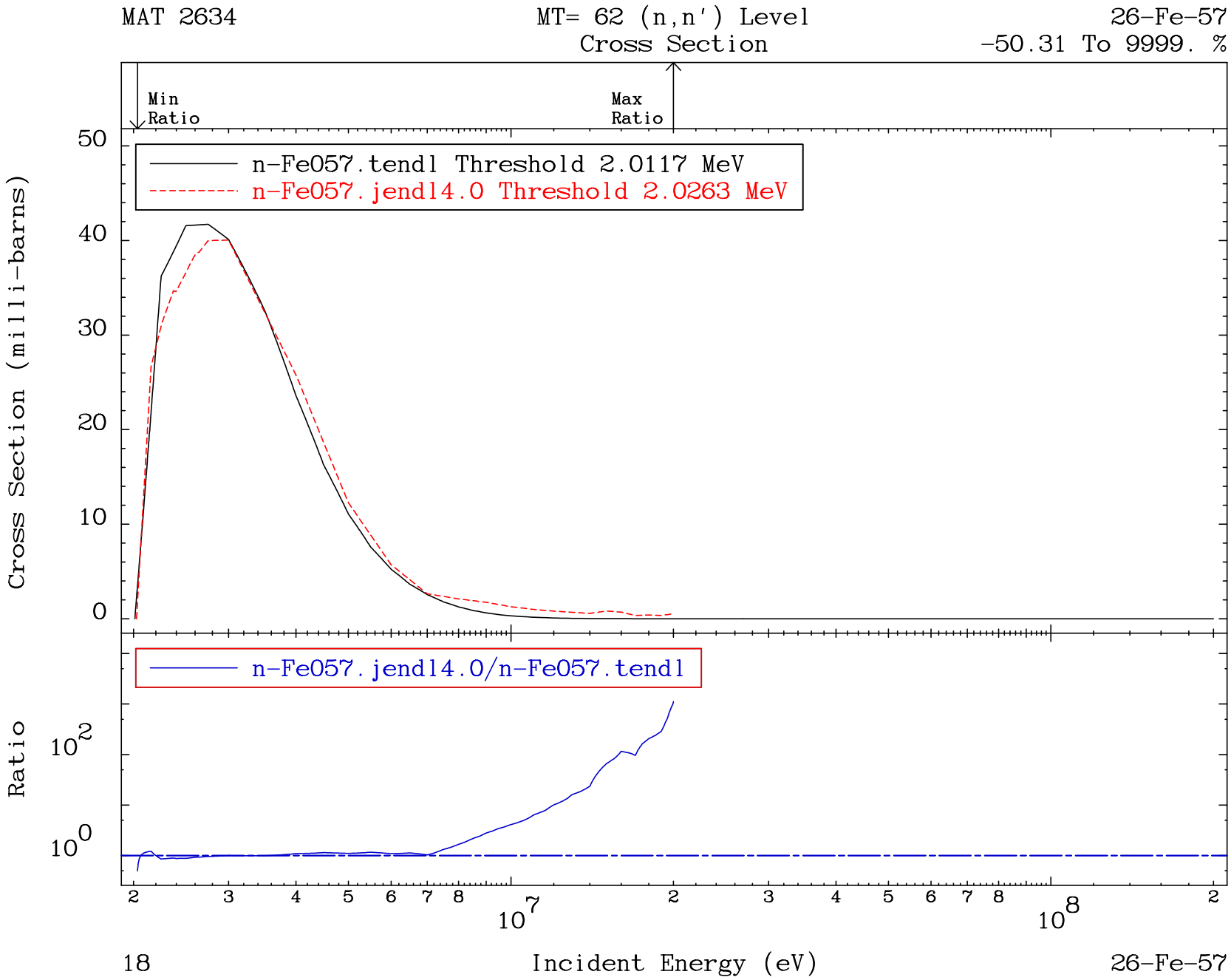

MAT 2634
MT= 57 (n,n') Level
Cross Section
26-Fe-57
-41.83 To 9999. %
Min Ratio
Max Ratio
n-Fe057.tendl Threshold 1.2190 MeV
n-Fe057.jendl4.0 Threshold 1.2878 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^3
10^2
10^1
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
26-Fe-57

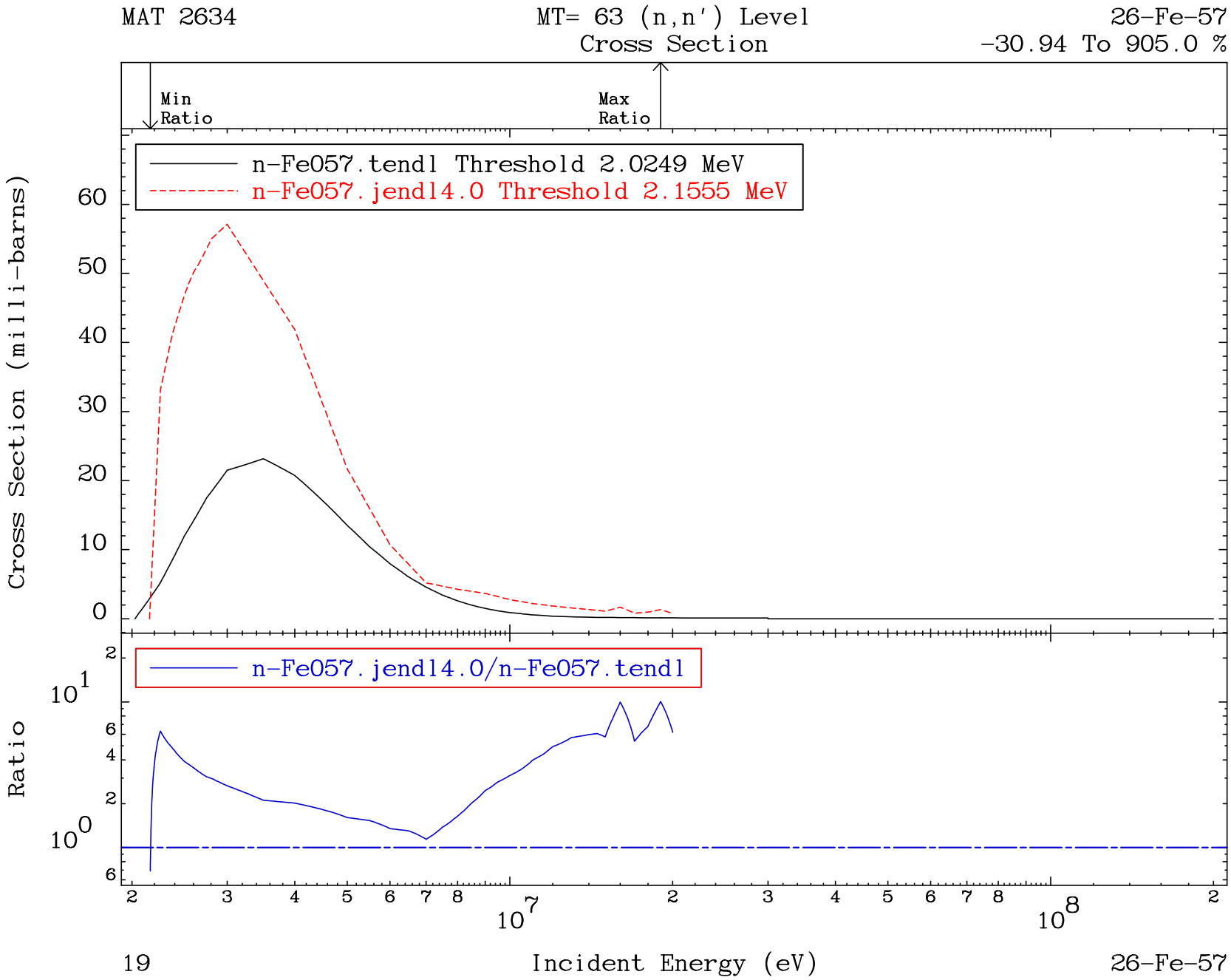

MAT 2634
MT= 58 (n,n') Level
Cross Section
26-Fe-57
-97.45 To 9999. %
Min Ratio
Max Ratio
n-Fe057.tendl Threshold 1.2879 MeV
n-Fe057.jendl4.0 Threshold 1.3802 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^4
10^2
10^0
10^-2
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
26-Fe-57

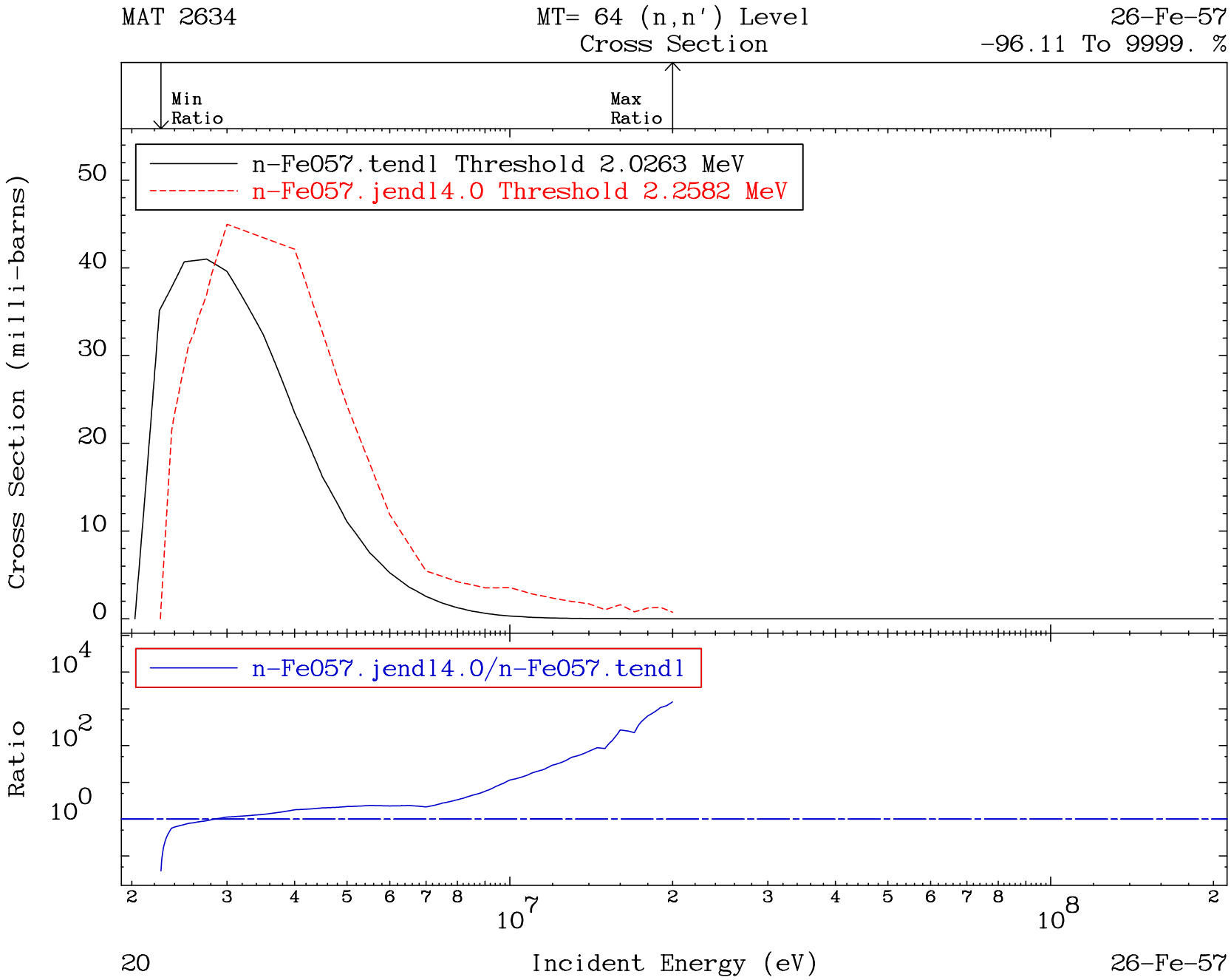

MAT 2634
MT= 59 (n,n') Level
Cross Section
26-Fe-57
-93.11 To 9999. %
Min
Ratio
Max
Ratio
n-Fe057.tendl Threshold 1.3809 MeV
n-Fe057.jendl4.0 Threshold 1.6561 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^2
10^0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
15
Incident Energy (eV)
26-Fe-57

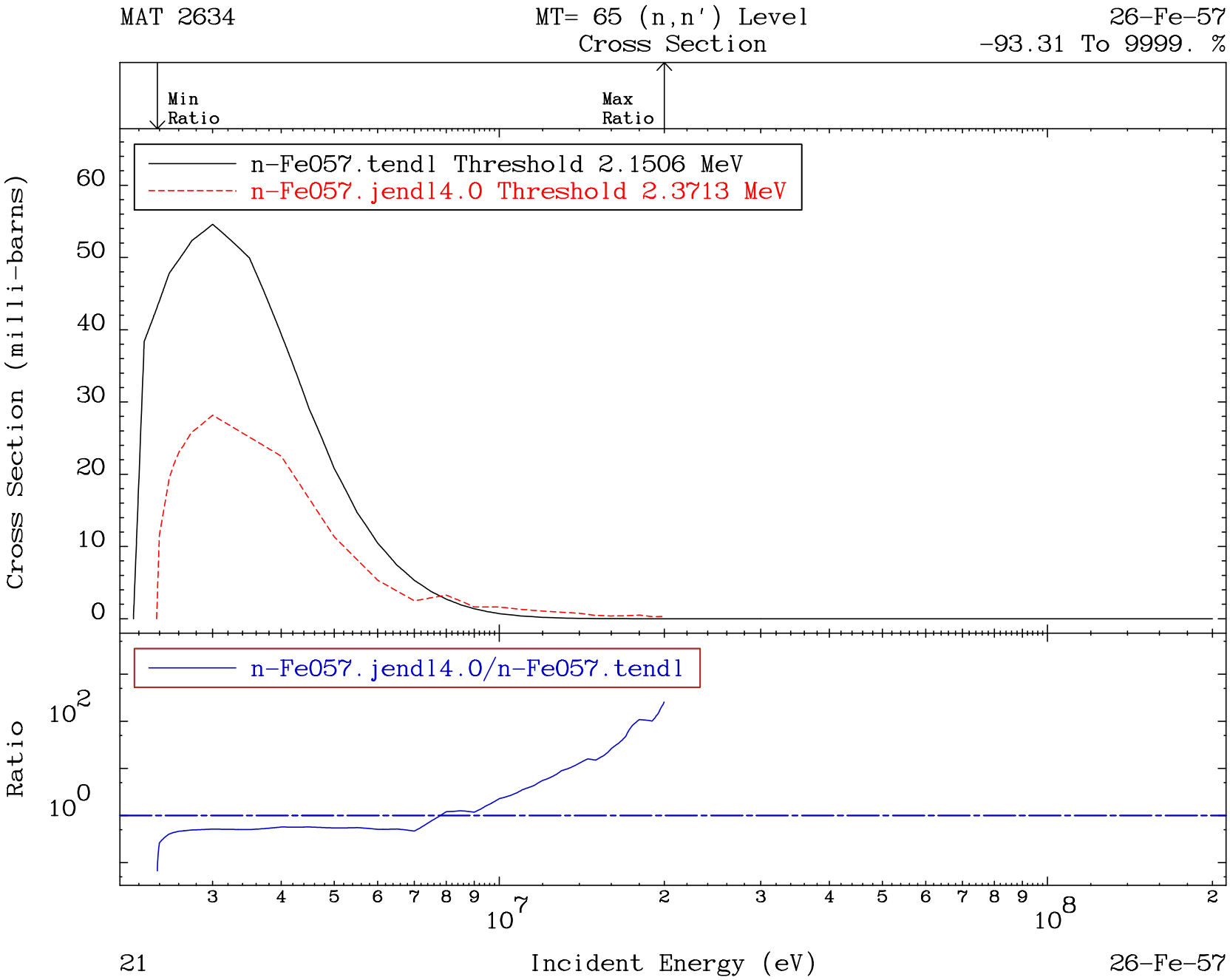

MAT 2634
MT= 60 (n,n') Level
Cross Section
26-Fe-57
-98.70 To 9999. %
Min Ratio
Max Ratio
n-Fe057.tendl Threshold 1.6561 MeV
n-Fe057.jendl4.0 Threshold 1.7560 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^2
10^0
10^-2
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
26-Fe-57

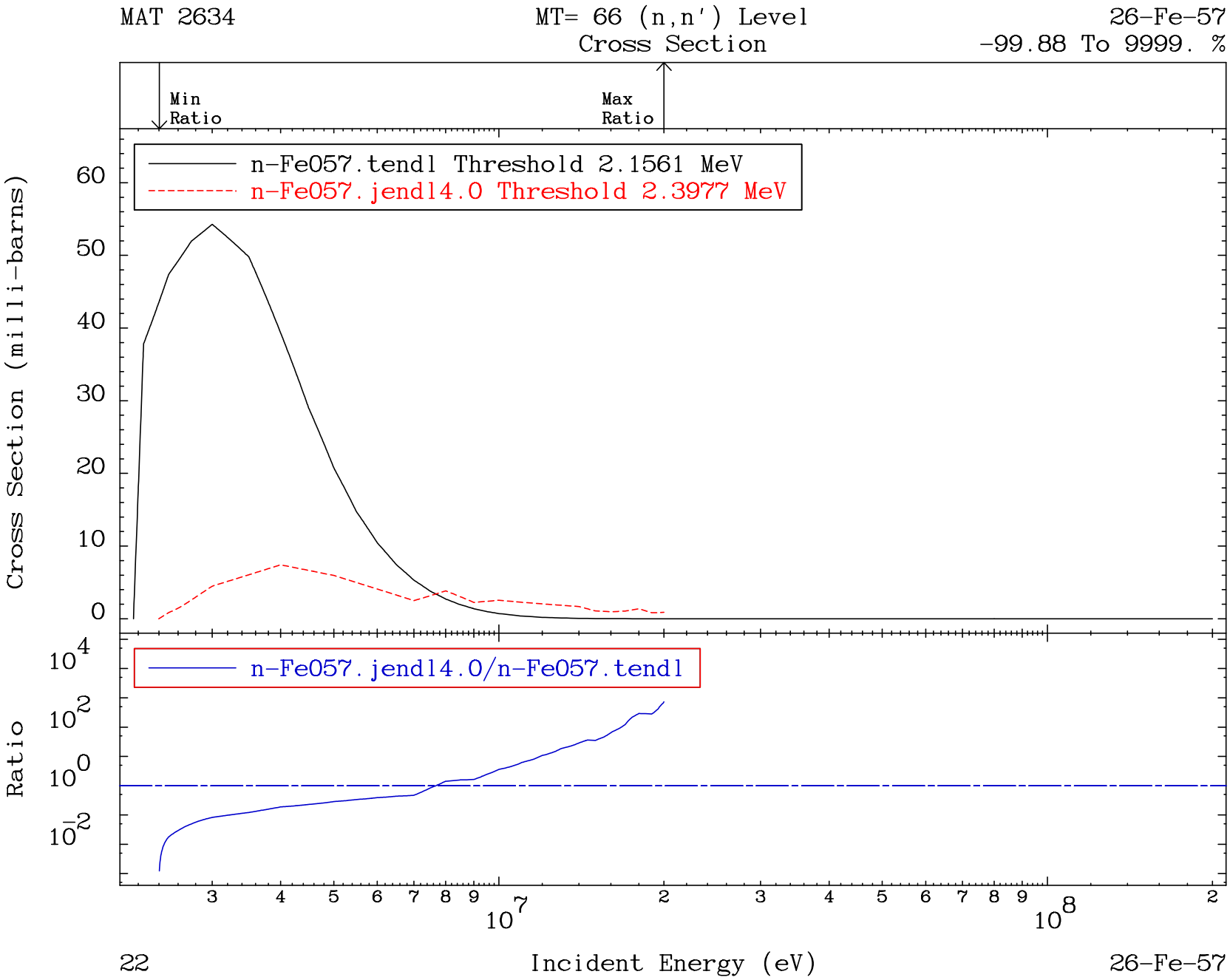

MAT 2634
MT= 61 (n,n') Level
Cross Section
26-Fe-57
-99.67 To 9999. %
Min
Ratio
Max
Ratio
n-Fe057.tendl Threshold 1.7560 MeV
n-Fe057.jendl4.0 Threshold 2.0245 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^4
10^2
10^0
10^-2
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
17
Incident Energy (eV)
26-Fe-57

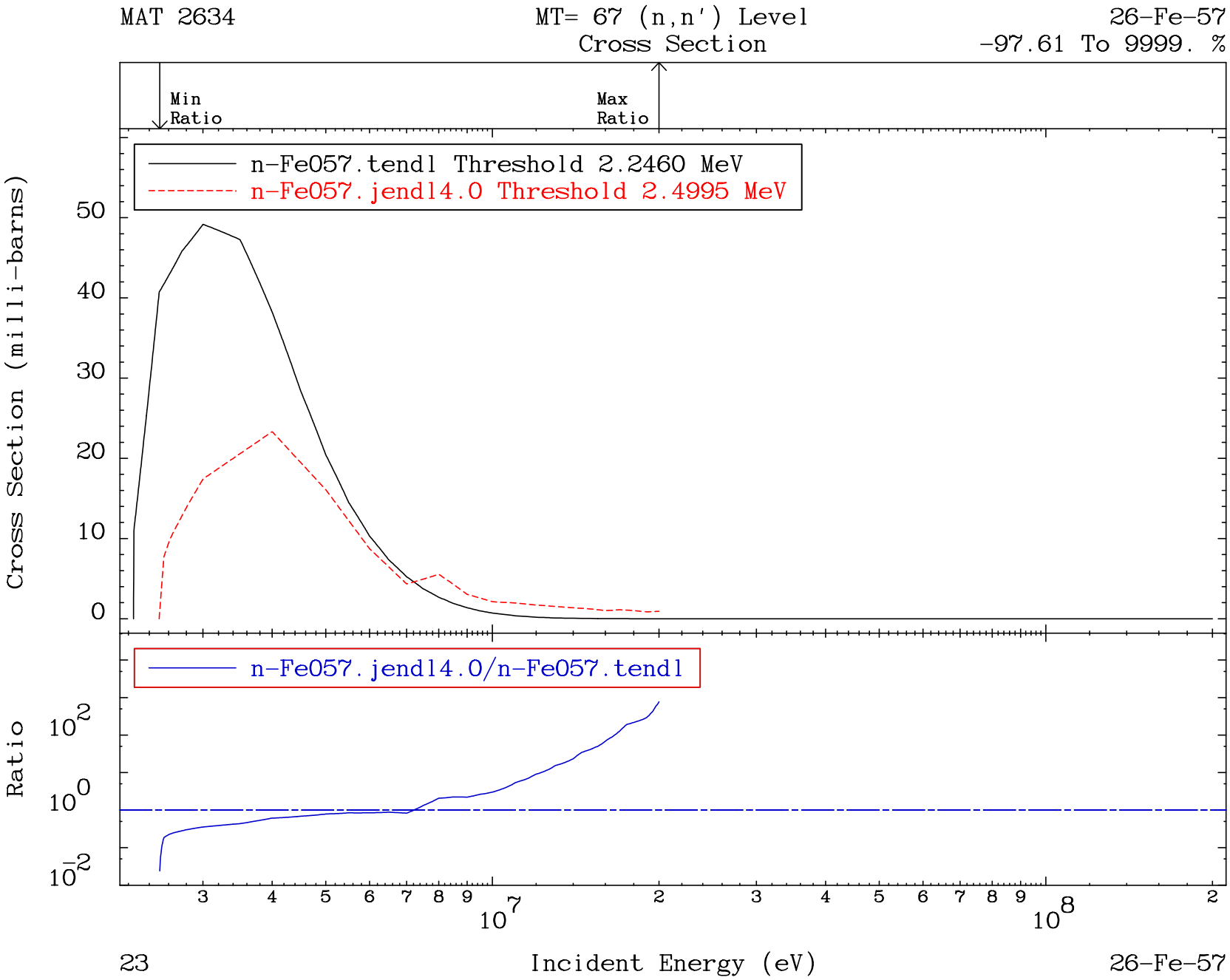

MAT 2634
MT= 62 (n,n') Level
Cross Section
26-Fe-57
-50.31 To 9999. %
Min
Ratio
Max
Ratio
n-Fe057.tendl Threshold 2.0117 MeV
n-Fe057.jendl4.0 Threshold 2.0263 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^2
10^0
2
3
4
5
6
7
8
10^7
10^8
18
Incident Energy (eV)
26-Fe-57

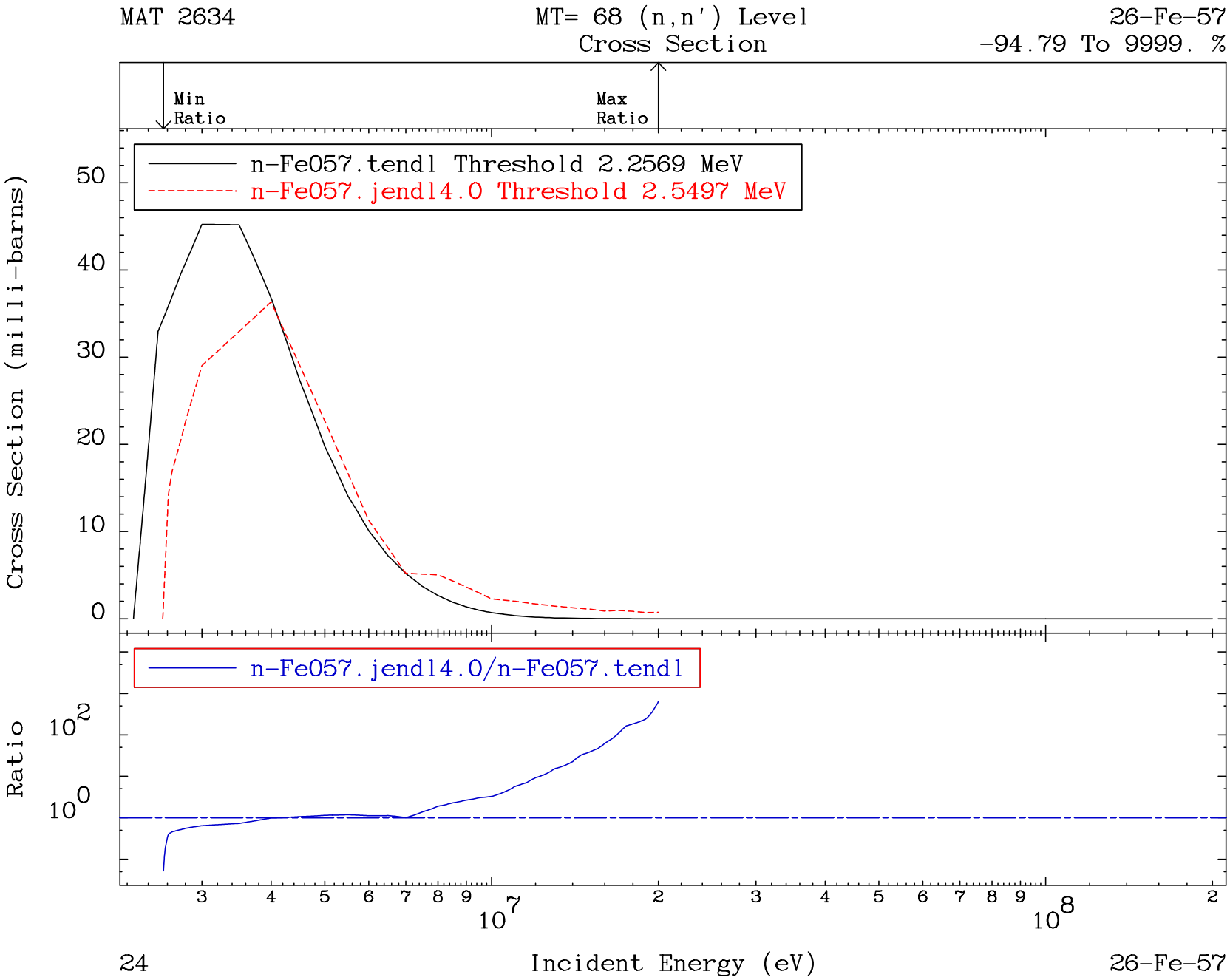

MAT 2634
MT= 63 (n,n') Level
Cross Section
26-Fe-57
-30.94 To 905.0 %
Min Ratio
Max Ratio
n-Fe057.tendl Threshold 2.0249 MeV
n-Fe057.jendl4.0 Threshold 2.1555 MeV
Cross Section (milli-barns)
0
10
20
30
40
50
60
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^1
10^0
2
6
4
2
6
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
26-Fe-57

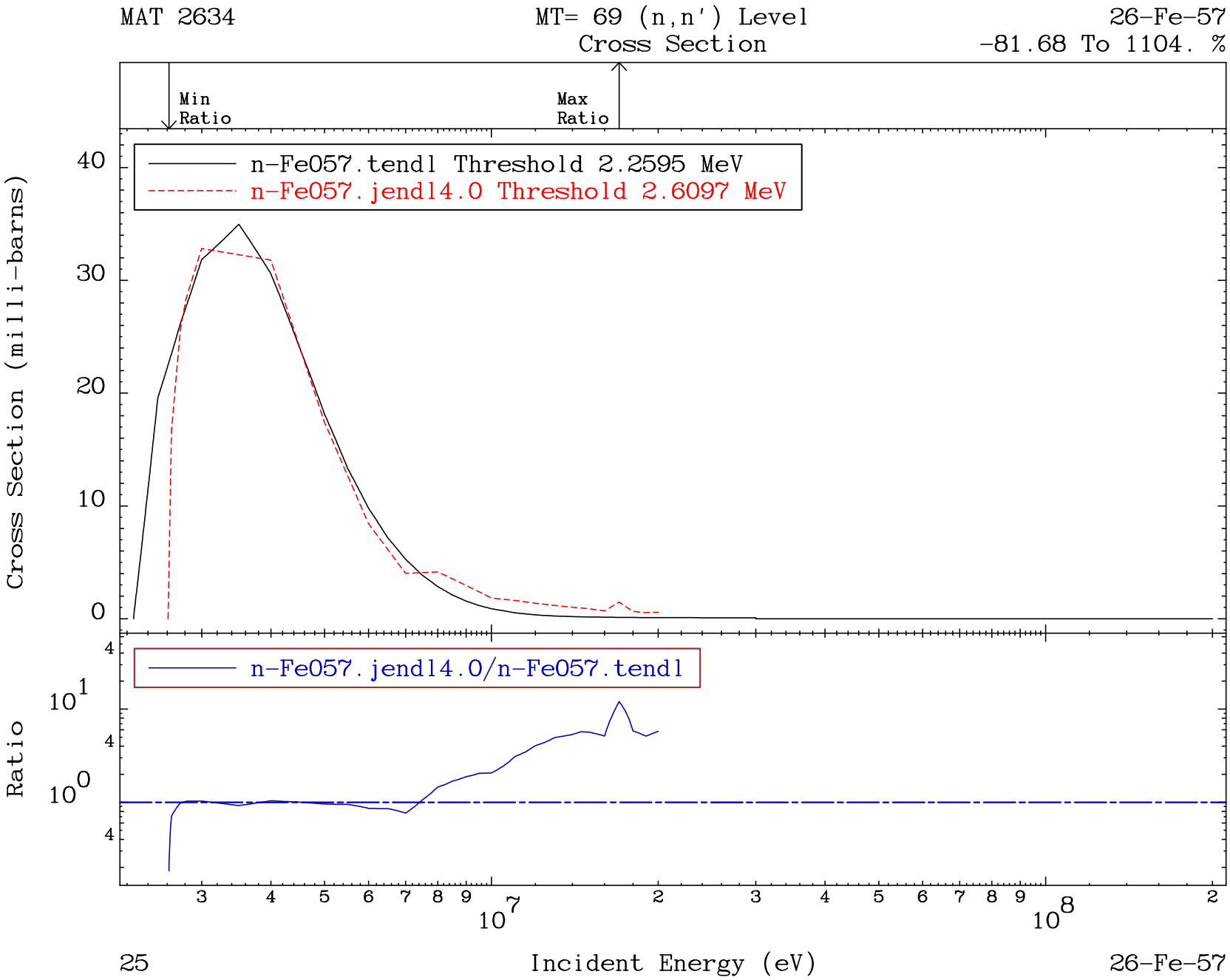

MAT 2634
MT= 64 (n,n') Level
Cross Section
26-Fe-57
-96.11 To 9999. %
Min Ratio
Max Ratio
n-Fe057.tendl Threshold 2.0263 MeV
n-Fe057.jendl4.0 Threshold 2.2582 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^4
10^2
10^0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
26-Fe-57

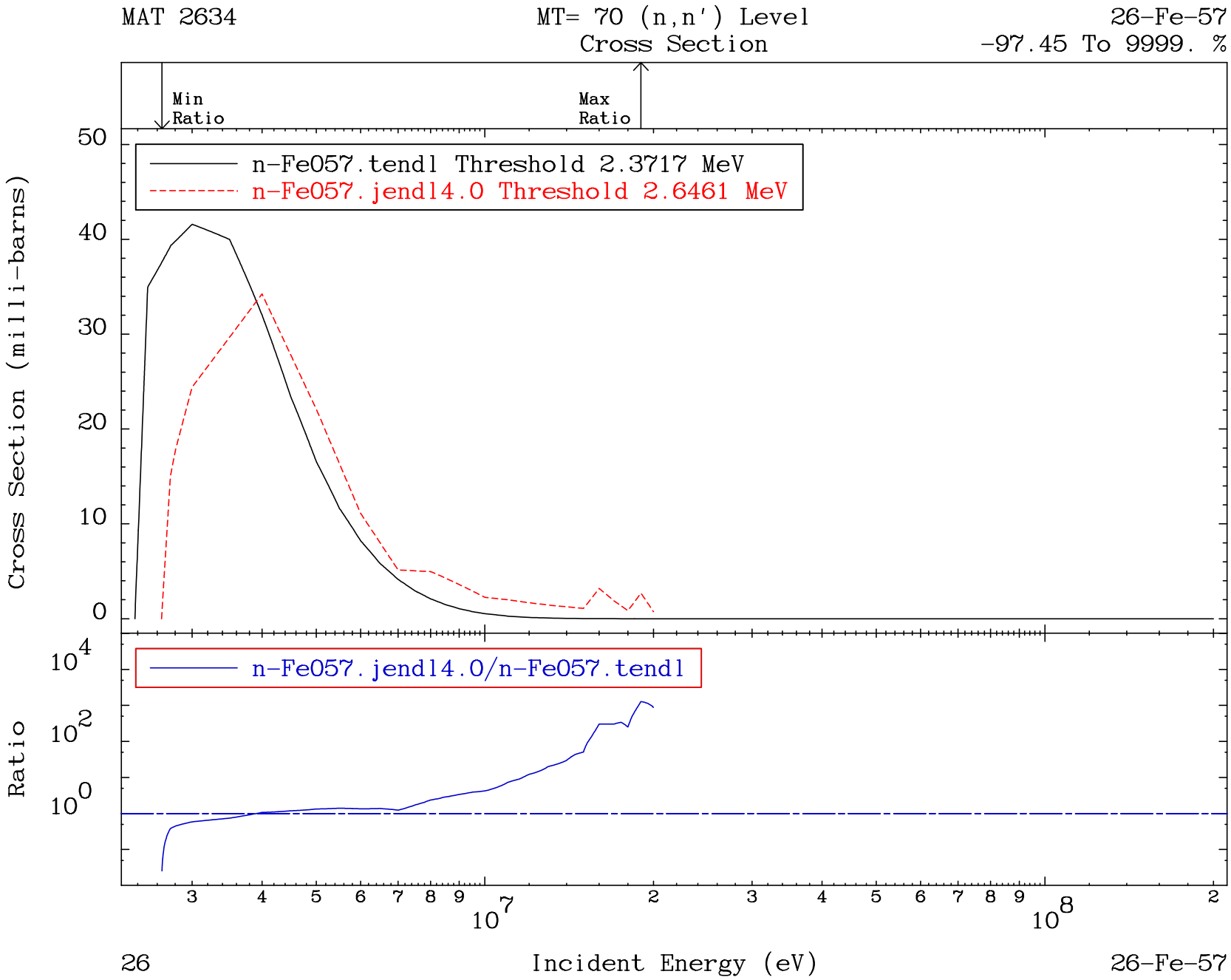

MAT 2634
MT= 65 (n,n') Level
Cross Section
26-Fe-57
-93.31 To 9999. %
Min Ratio
Max Ratio
n-Fe057.tendl Threshold 2.1506 MeV
n-Fe057.jendl4.0 Threshold 2.3713 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^2
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
21
Incident Energy (eV)
26-Fe-57

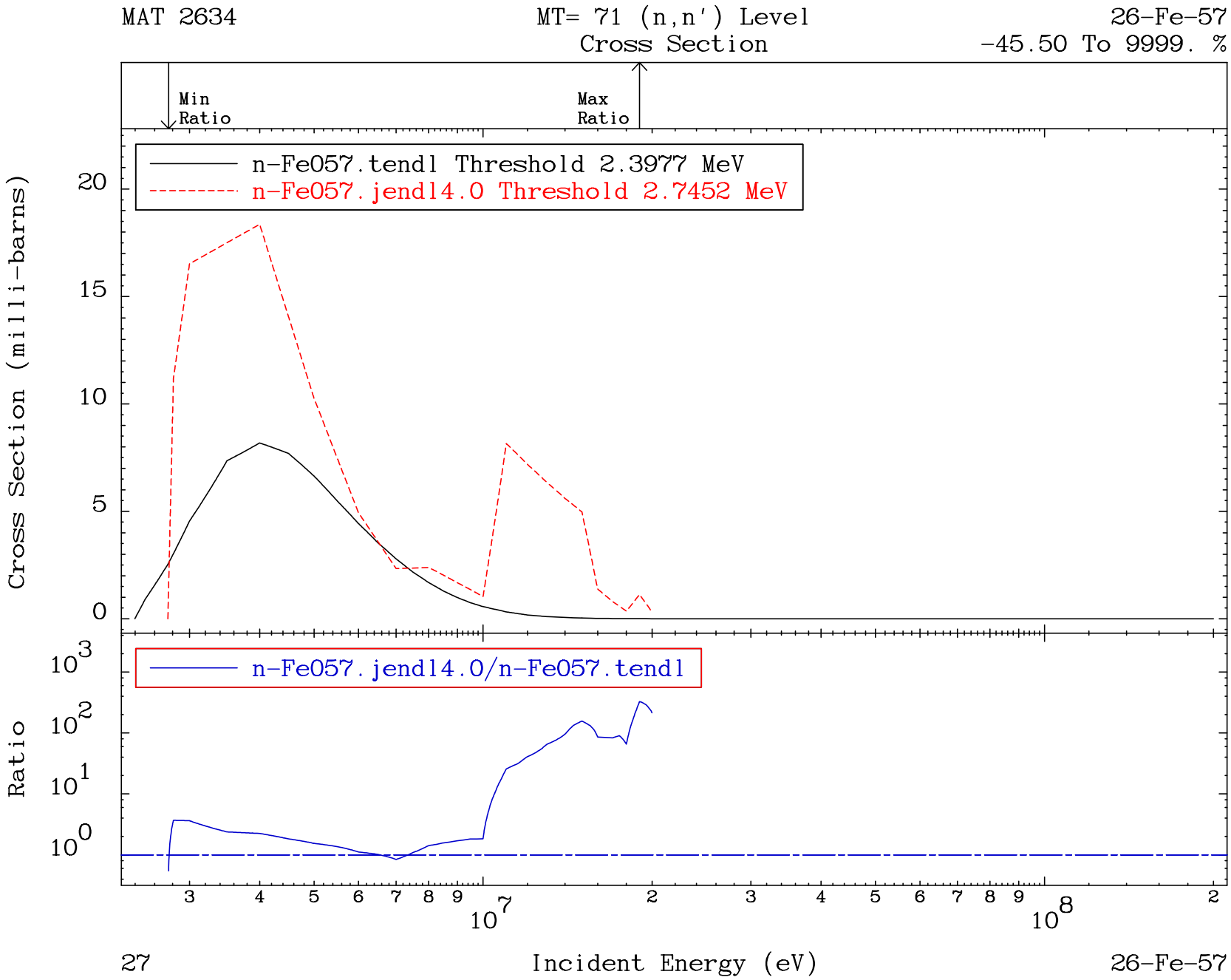

MAT 2634
MT= 66 (n,n') Level
Cross Section
26-Fe-57
-99.88 To 9999. %
Min Ratio
Max Ratio
n-Fe057.tendl Threshold 2.1561 MeV
n-Fe057.jendl4.0 Threshold 2.3977 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^4
10^2
10^0
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
26-Fe-57

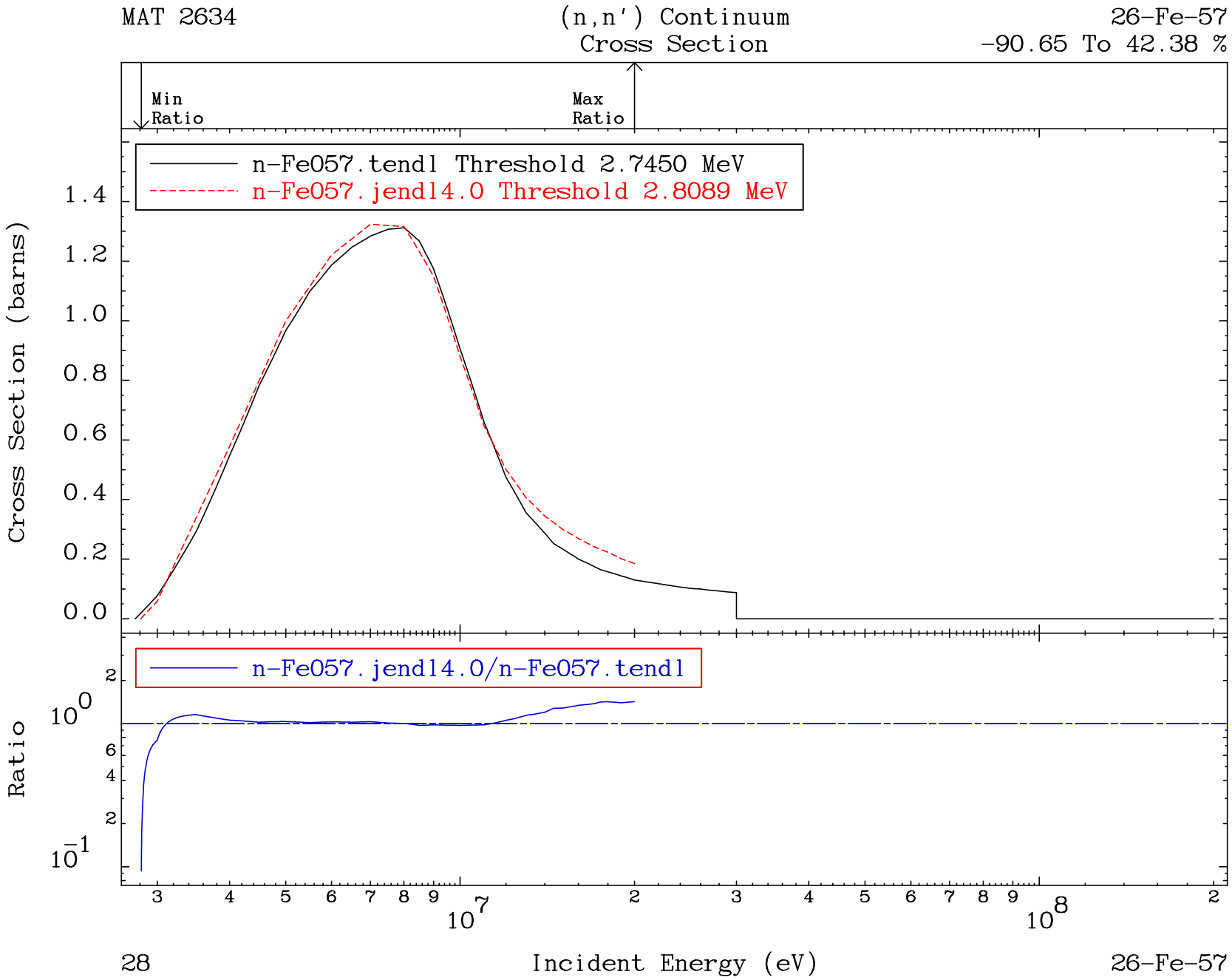

MAT 2634
MT= 67 (n,n') Level
Cross Section
26-Fe-57
-97.61 To 9999. %
Min Ratio
Max Ratio
n-Fe057.tendl Threshold 2.2460 MeV
n-Fe057.jendl4.0 Threshold 2.4995 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^2
10^0
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
26-Fe-57

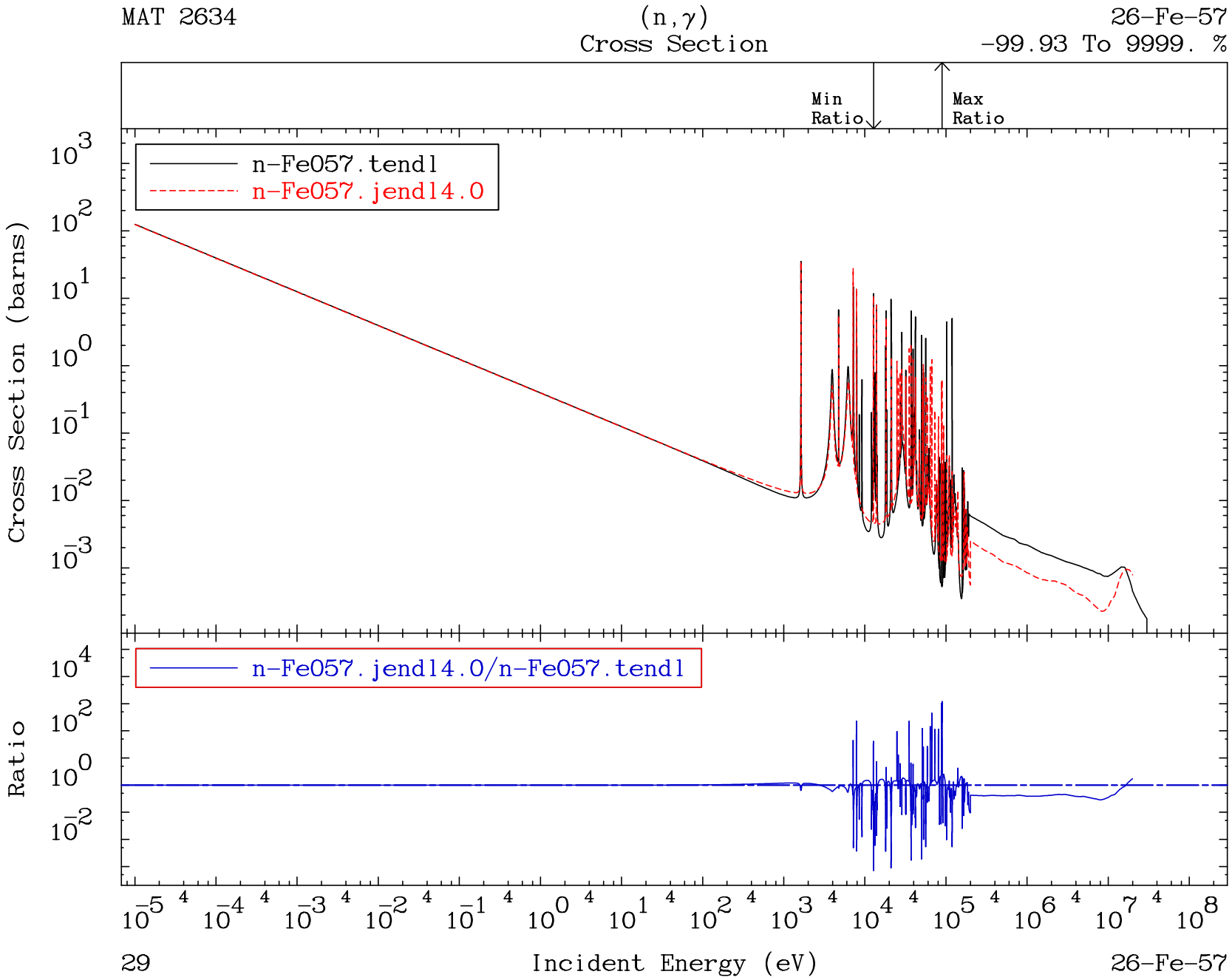

MAT 2634
MT= 68 (n,n') Level
Cross Section
26-Fe-57
-94.79 To 9999. %
Min Ratio
Max Ratio
n-Fe057.tendl Threshold 2.2569 MeV
n-Fe057.jendl4.0 Threshold 2.5497 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^2
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
26-Fe-57

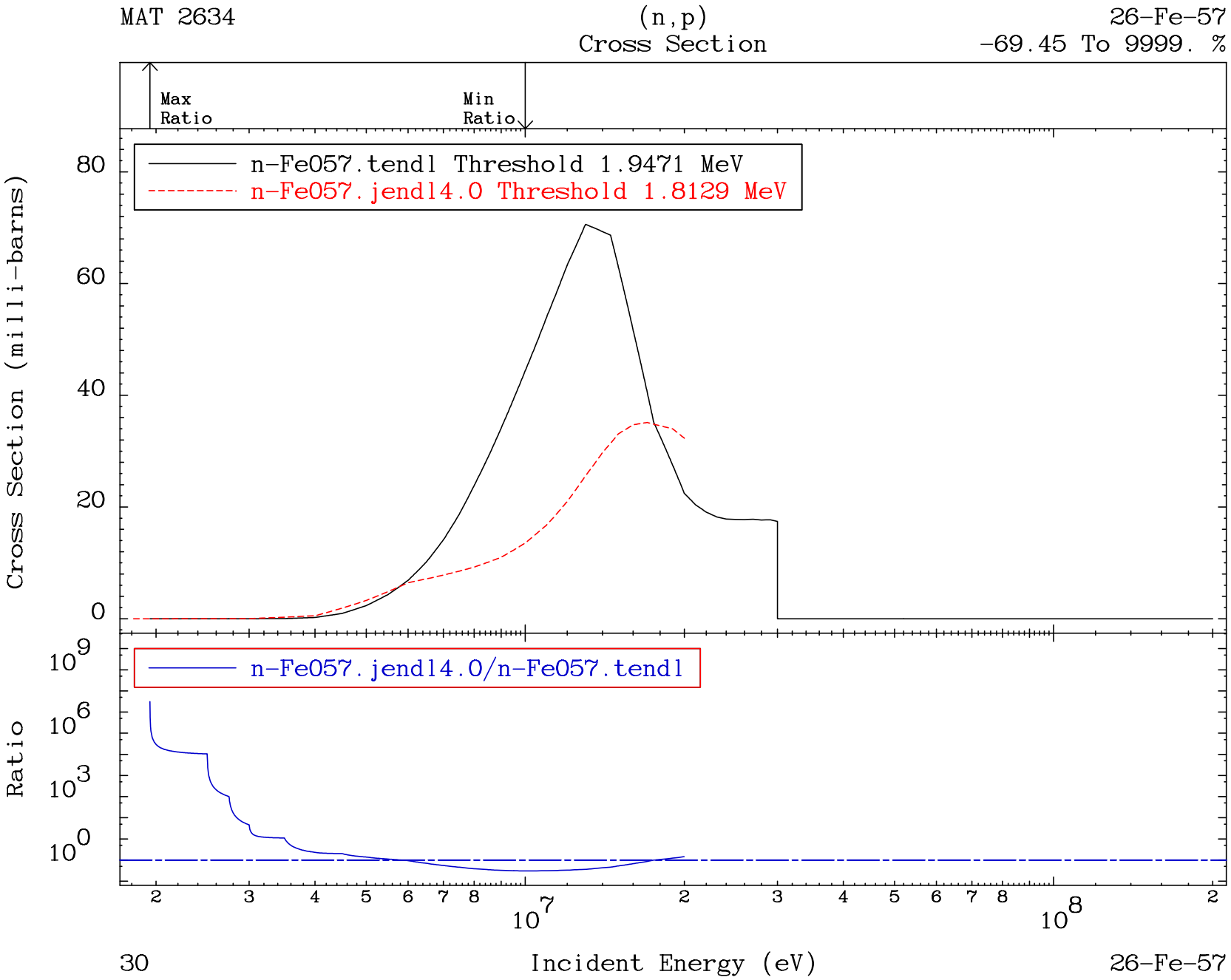

MAT 2634
MT= 69 (n,n') Level
Cross Section
26-Fe-57
-81.68 To 1104. %
Min Ratio
Max Ratio
n-Fe057.tendl Threshold 2.2595 MeV
n-Fe057.jendl4.0 Threshold 2.6097 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
25
26-Fe-57

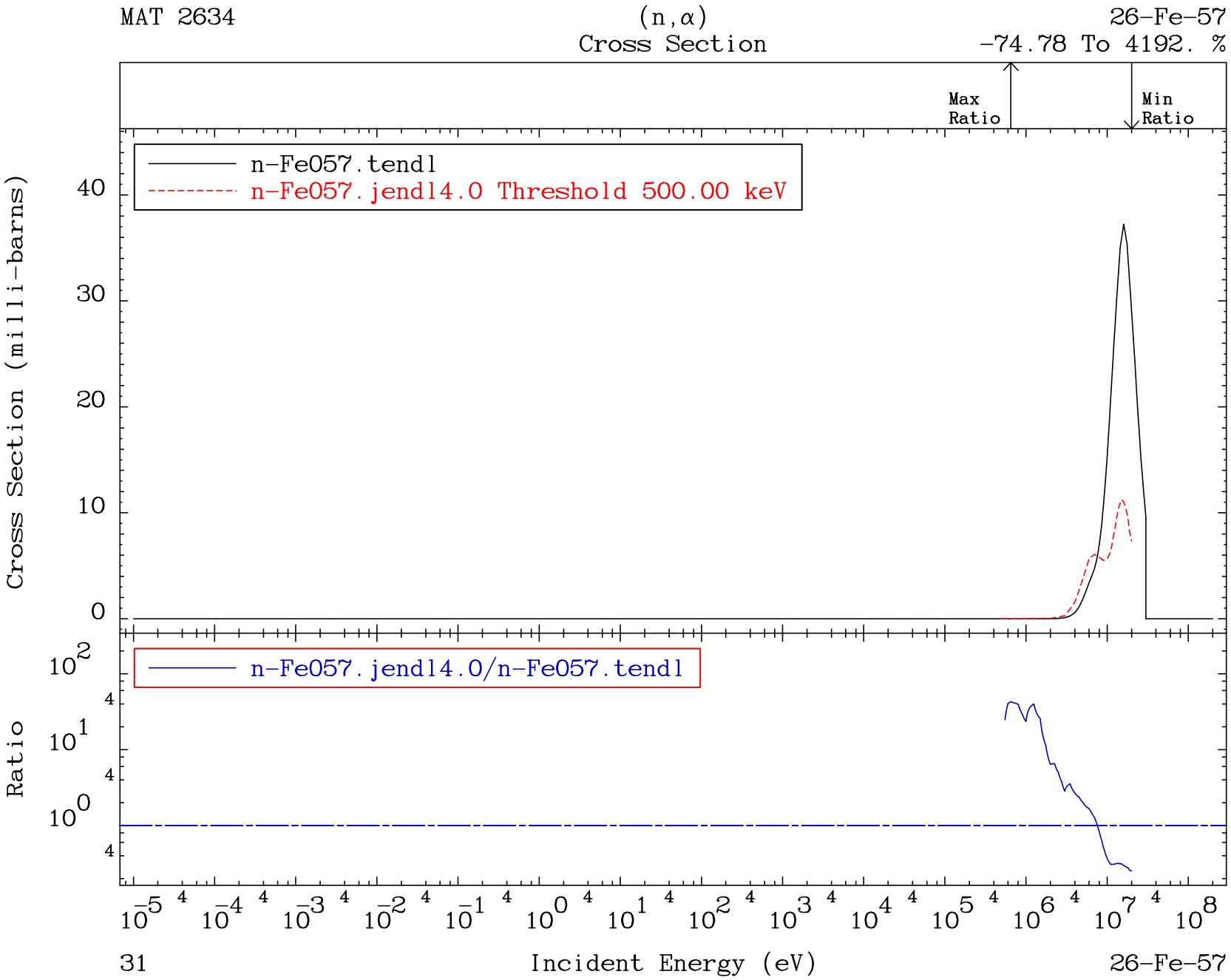

MAT 2634
MT= 70 (n,n') Level
Cross Section
26-Fe-57
-97.45 To 9999. %
Min Ratio
Max Ratio
n-Fe057.tendl Threshold 2.3717 MeV
n-Fe057.jendl4.0 Threshold 2.6461 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^4
10^2
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
26-Fe-57

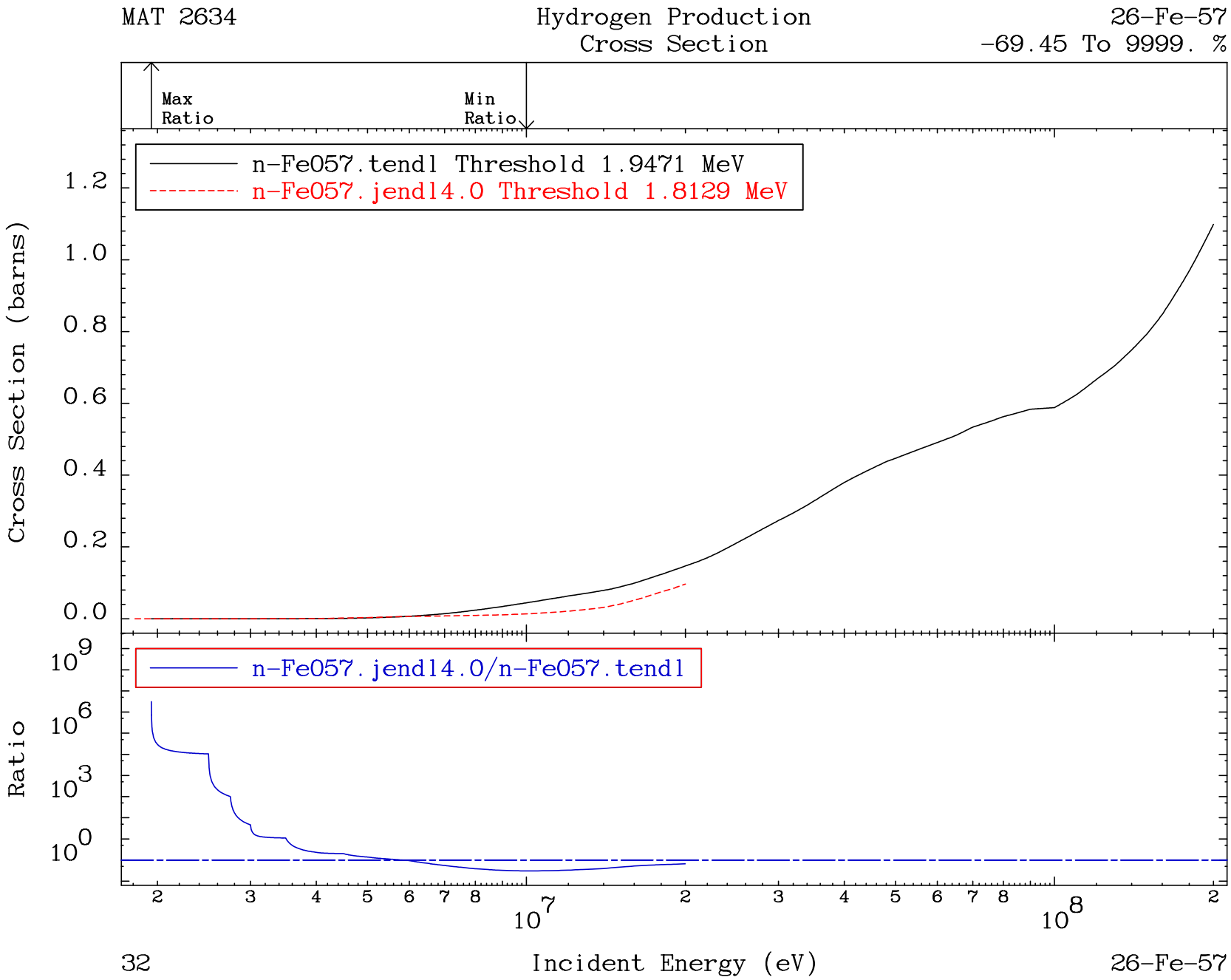

MAT 2634
MT= 71 (n,n') Level
Cross Section
26-Fe-57
-45.50 To 9999. %
Min Ratio
Max Ratio
n-Fe057.tendl Threshold 2.3977 MeV
n-Fe057.jendl4.0 Threshold 2.7452 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^3
10^2
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
26-Fe-57

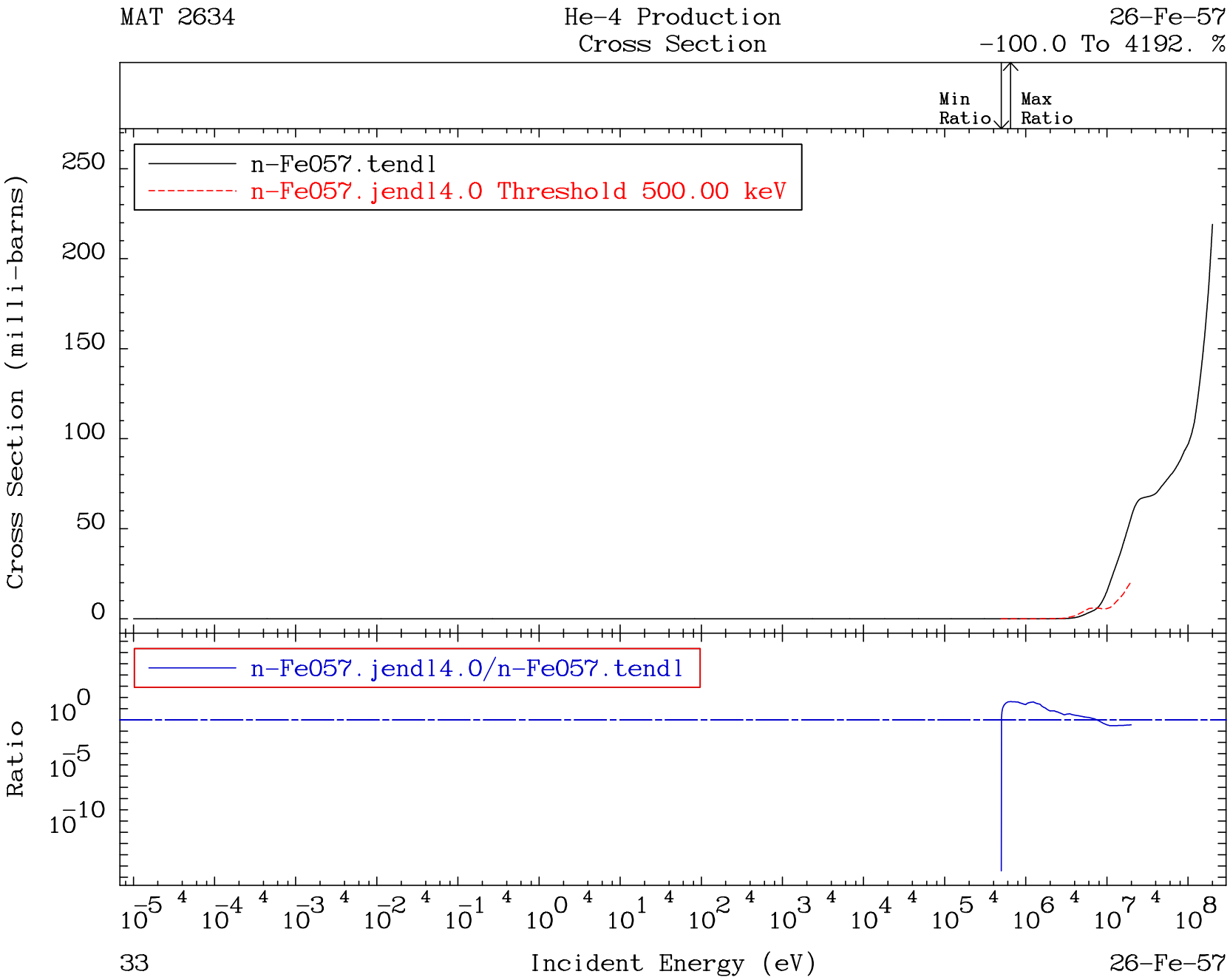

MAT 2634
(n,n') Continuum
Cross Section
26-Fe-57
-90.65 To 42.38 %
Min Ratio
Max Ratio
n-Fe057.tendl Threshold 2.7450 MeV
n-Fe057.jendl4.0 Threshold 2.8089 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
2
10^0
6
4
2
10^{-1}
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
26-Fe-57

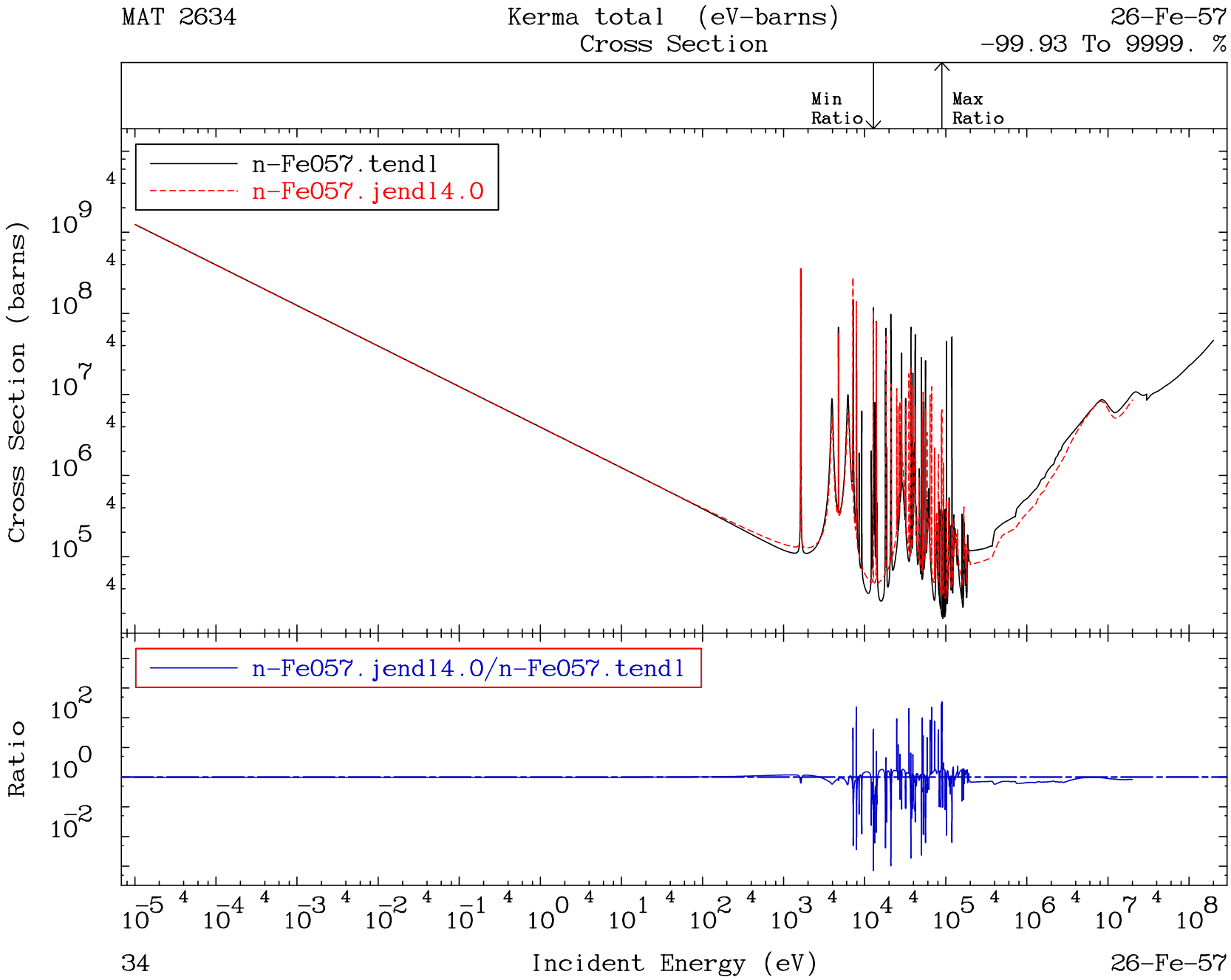

MAT 2634
(n,γ)
Cross Section
26-Fe-57
-99.93 To 9999. %
Min Ratio
Max Ratio
n-Fe057.tendl
n-Fe057.jendl4.0
Cross Section (barns)
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
Incident Energy (eV)
29
26-Fe-57

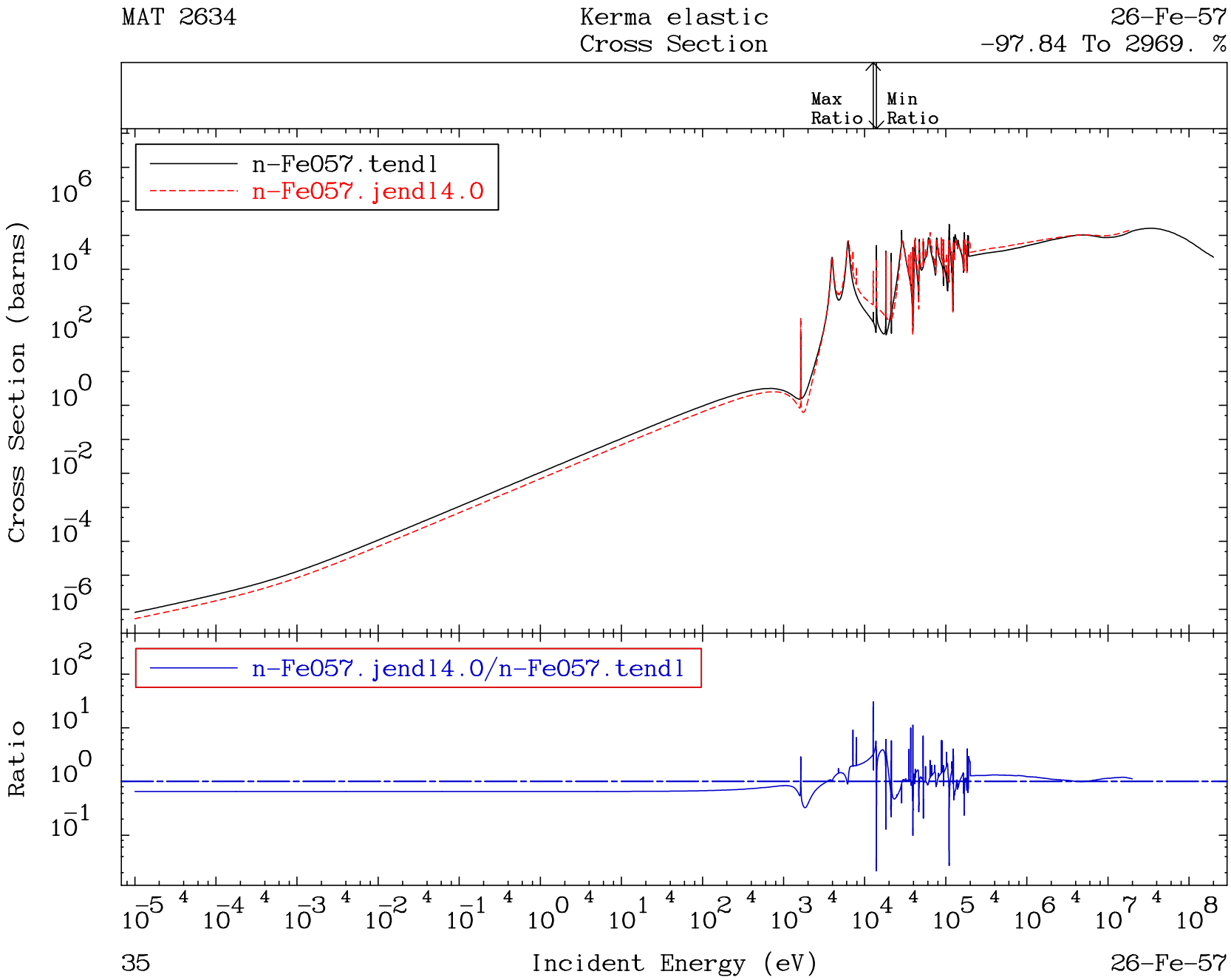

MAT 2634
(n,p)
Cross Section
26-Fe-57
-69.45 To 9999. %
Max Ratio
Min Ratio
n-Fe057.tendl Threshold 1.9471 MeV
n-Fe057.jendl4.0 Threshold 1.8129 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^9
10^6
10^3
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
30
Incident Energy (eV)
26-Fe-57

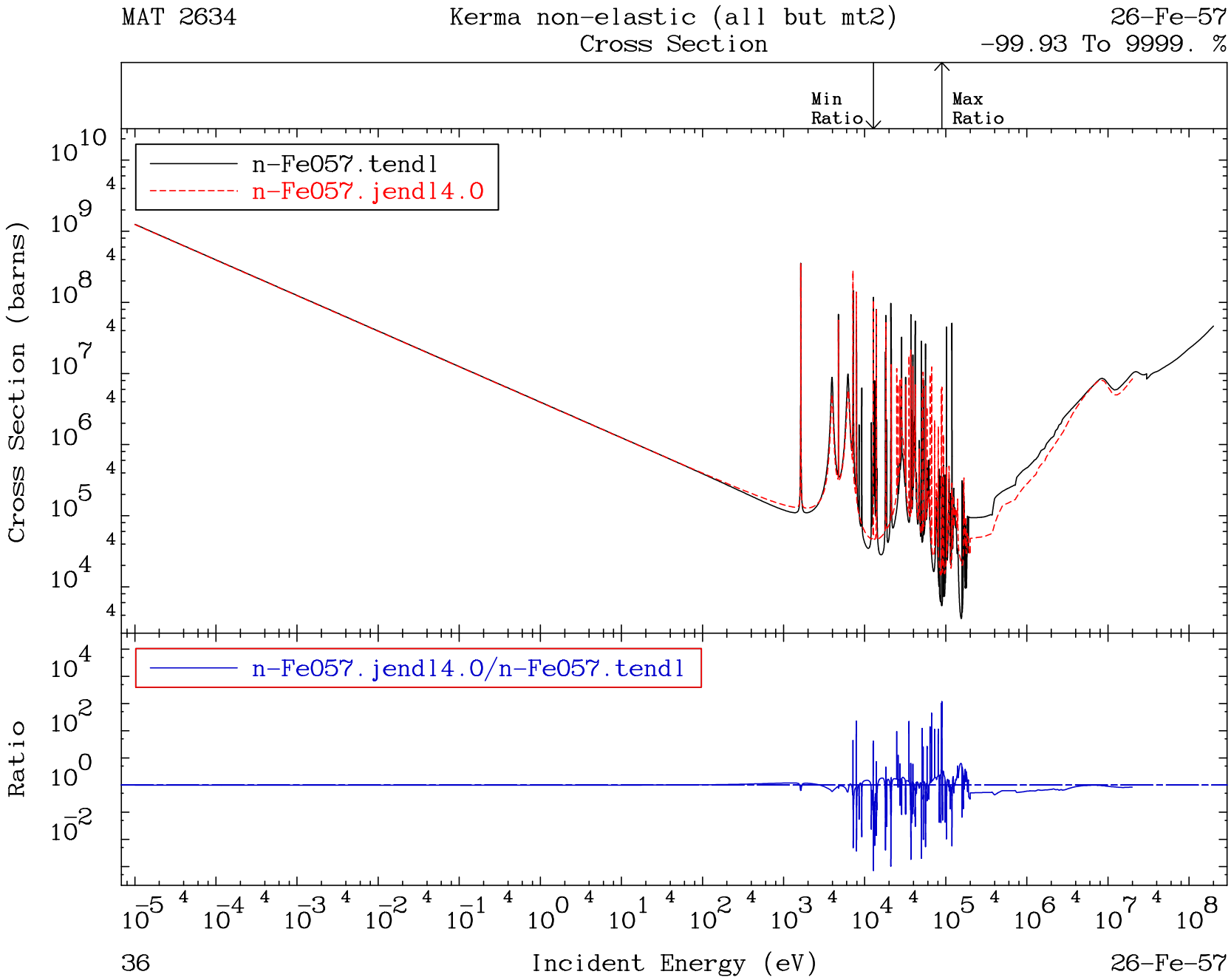

MAT 2634
(n,α)
Cross Section
26-Fe-57
-74.78 To 4192. %
Max Ratio
Min Ratio
n-Fe057.tendl
n-Fe057.jendl4.0 Threshold 500.00 keV
Cross Section (milli-barns)
40
30
20
10
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^2
10^1
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
31
Incident Energy (eV)
26-Fe-57

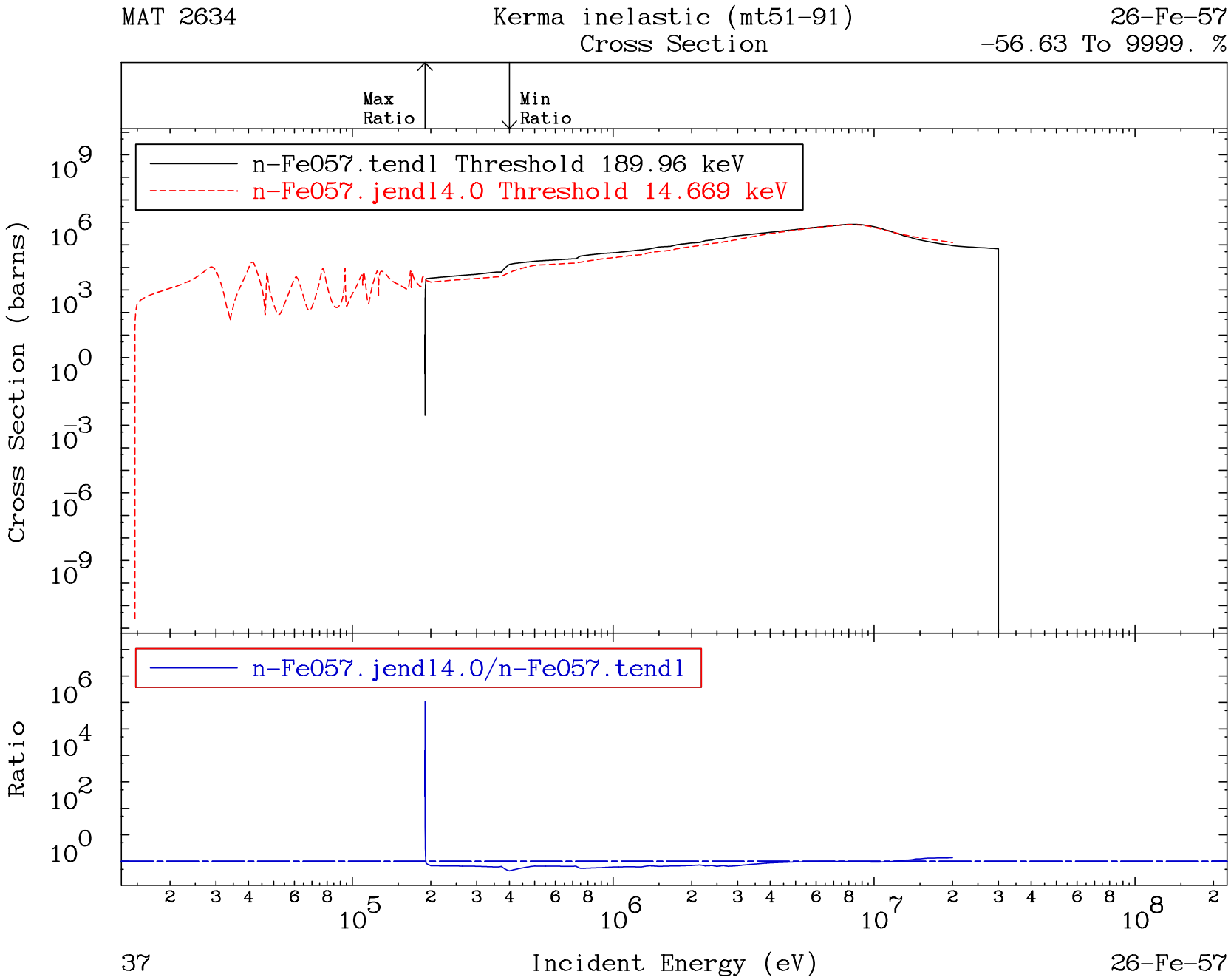

MAT 2634
Hydrogen Production
Cross Section
26-Fe-57
-69.45 To 9999. %
Max Ratio
Min Ratio
n-Fe057.tendl Threshold 1.9471 MeV
n-Fe057.jendl4.0 Threshold 1.8129 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^9
10^6
10^3
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
32
Incident Energy (eV)
26-Fe-57

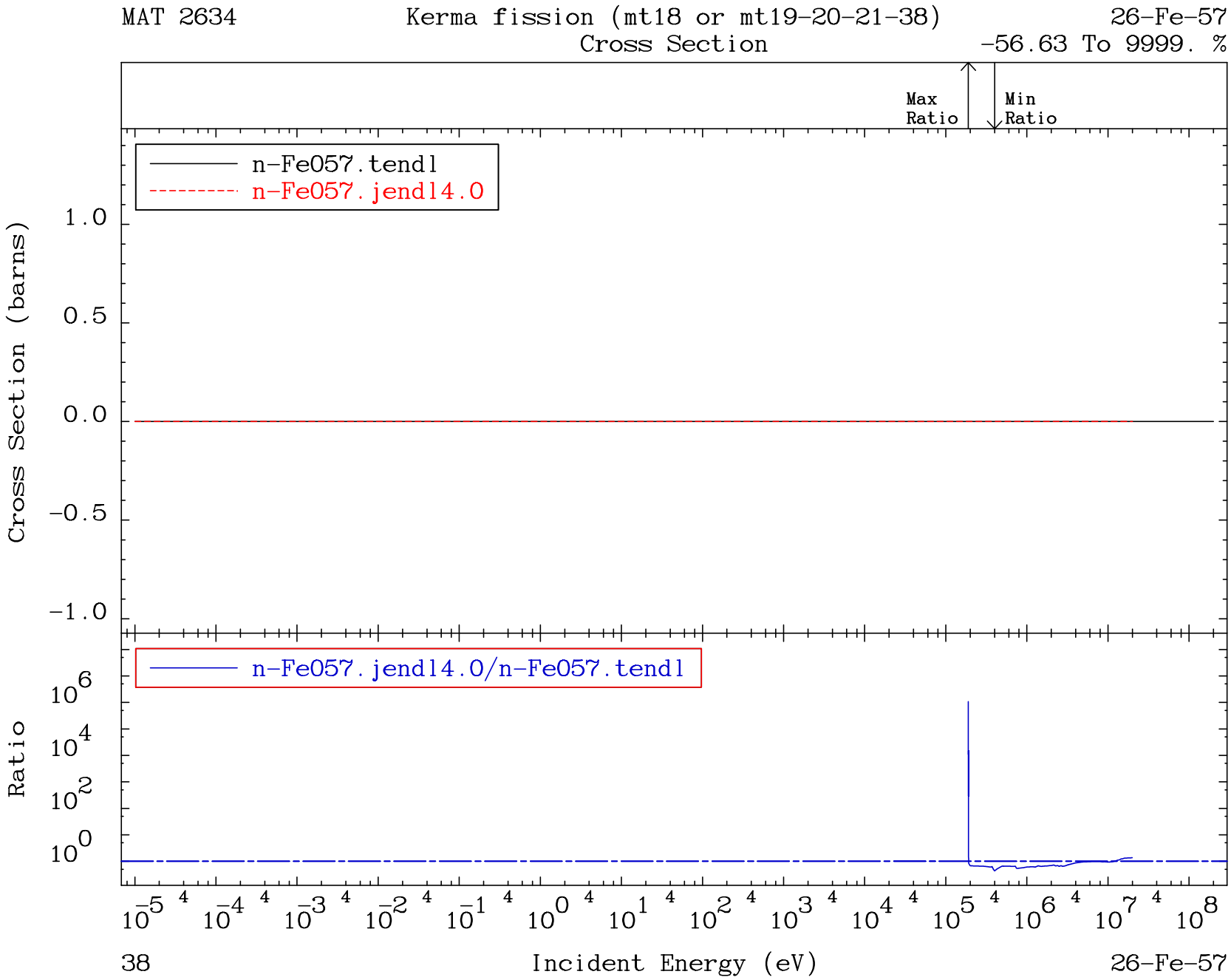

MAT 2634
He-4 Production
Cross Section
26-Fe-57
-100.0 To 4192. %
Min Ratio
Max Ratio
n-Fe057.tendl
n-Fe057.jendl4.0 Threshold 500.00 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^0
10^-5
10^-10
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
33
Incident Energy (eV)
26-Fe-57

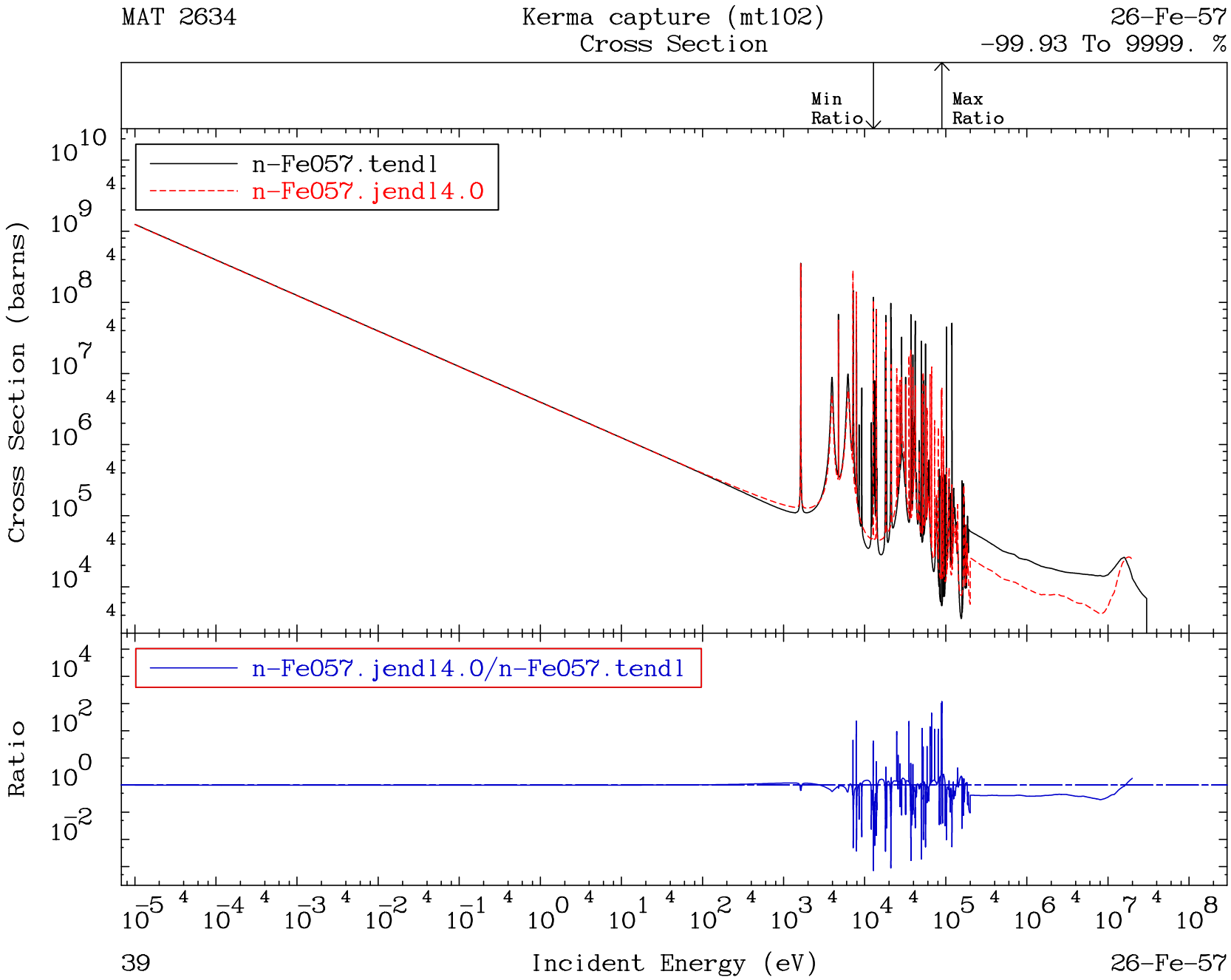

MAT 2634
Kerma total (eV-barns)
Cross Section
26-Fe-57
-99.93 To 9999. %
Min Ratio
Max Ratio
n-Fe057.tendl
n-Fe057.jendl4.0
Cross Section (barns)
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
Incident Energy (eV)
34
26-Fe-57

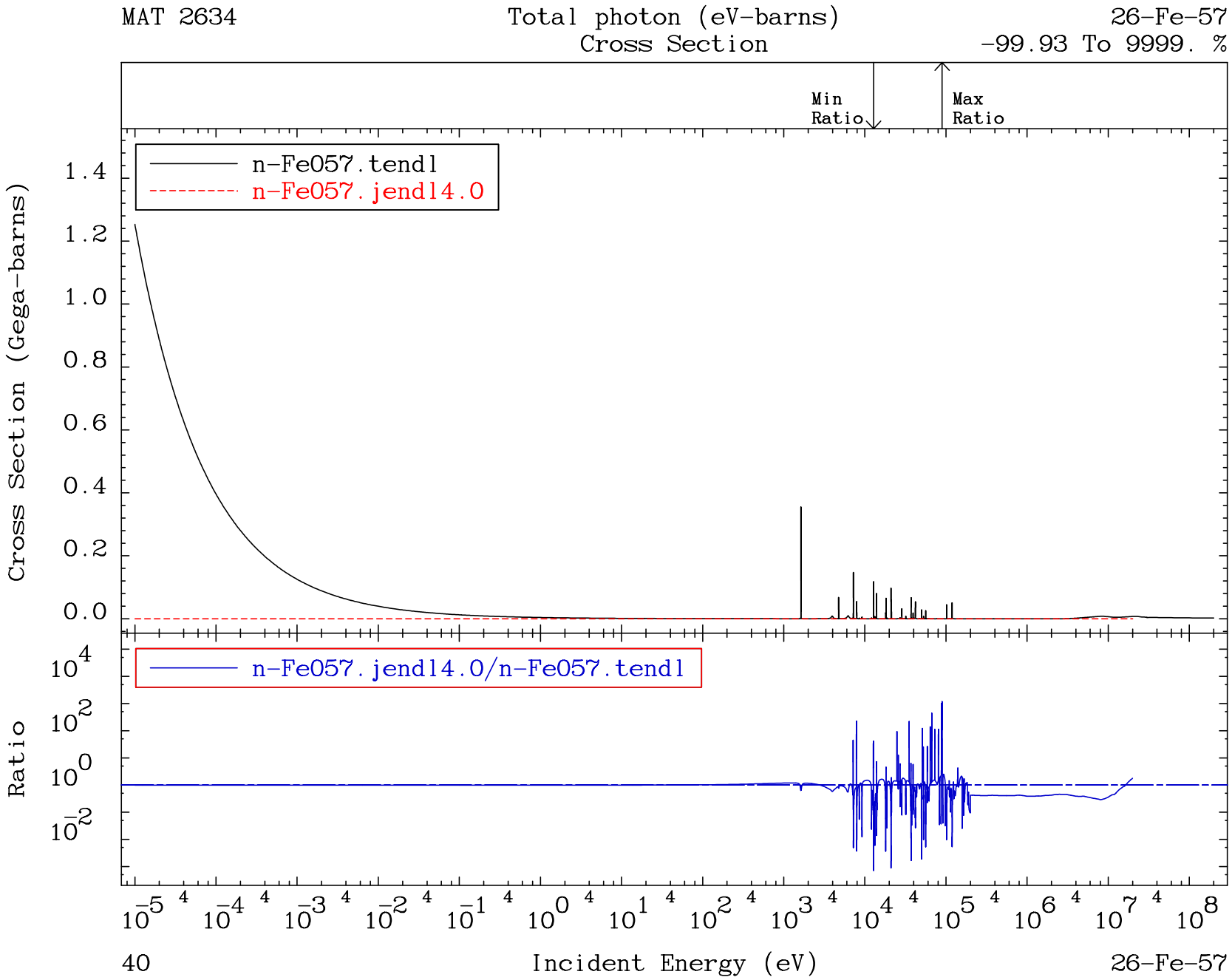

MAT 2634
Kerma elastic
Cross Section
26-Fe-57
-97.84 To 2969. %
Max Ratio
Min Ratio
n-Fe057.tendl
n-Fe057.jendl4.0
Cross Section (barns)
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
Incident Energy (eV)
35
26-Fe-57

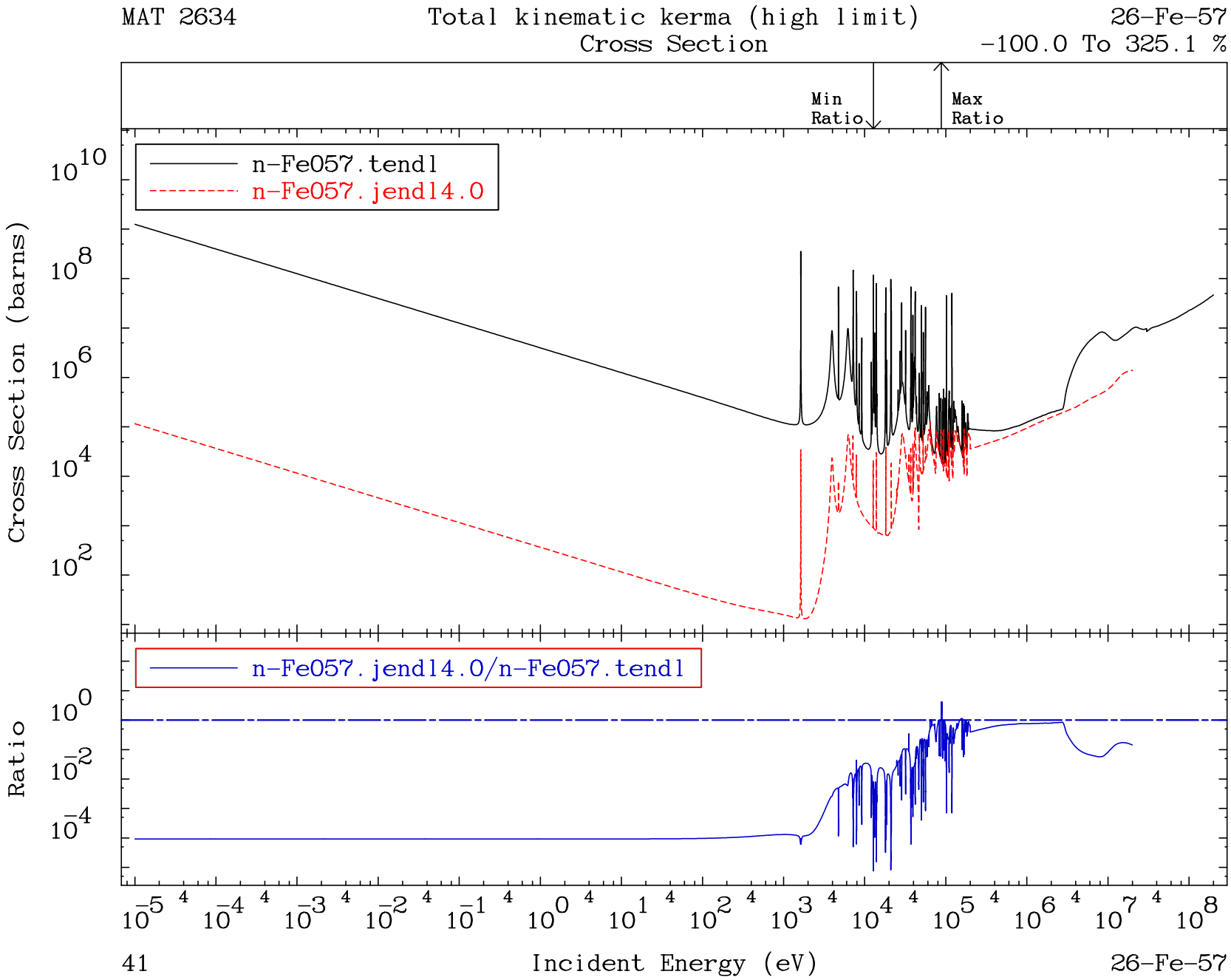

MAT 2634
Kerma non-elastic (all but mt2)
Cross Section
26-Fe-57
-99.93 To 9999. %
Min Ratio
Max Ratio
n-Fe057.tendl
n-Fe057.jendl4.0
Cross Section (barns)
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
36
Incident Energy (eV)
26-Fe-57

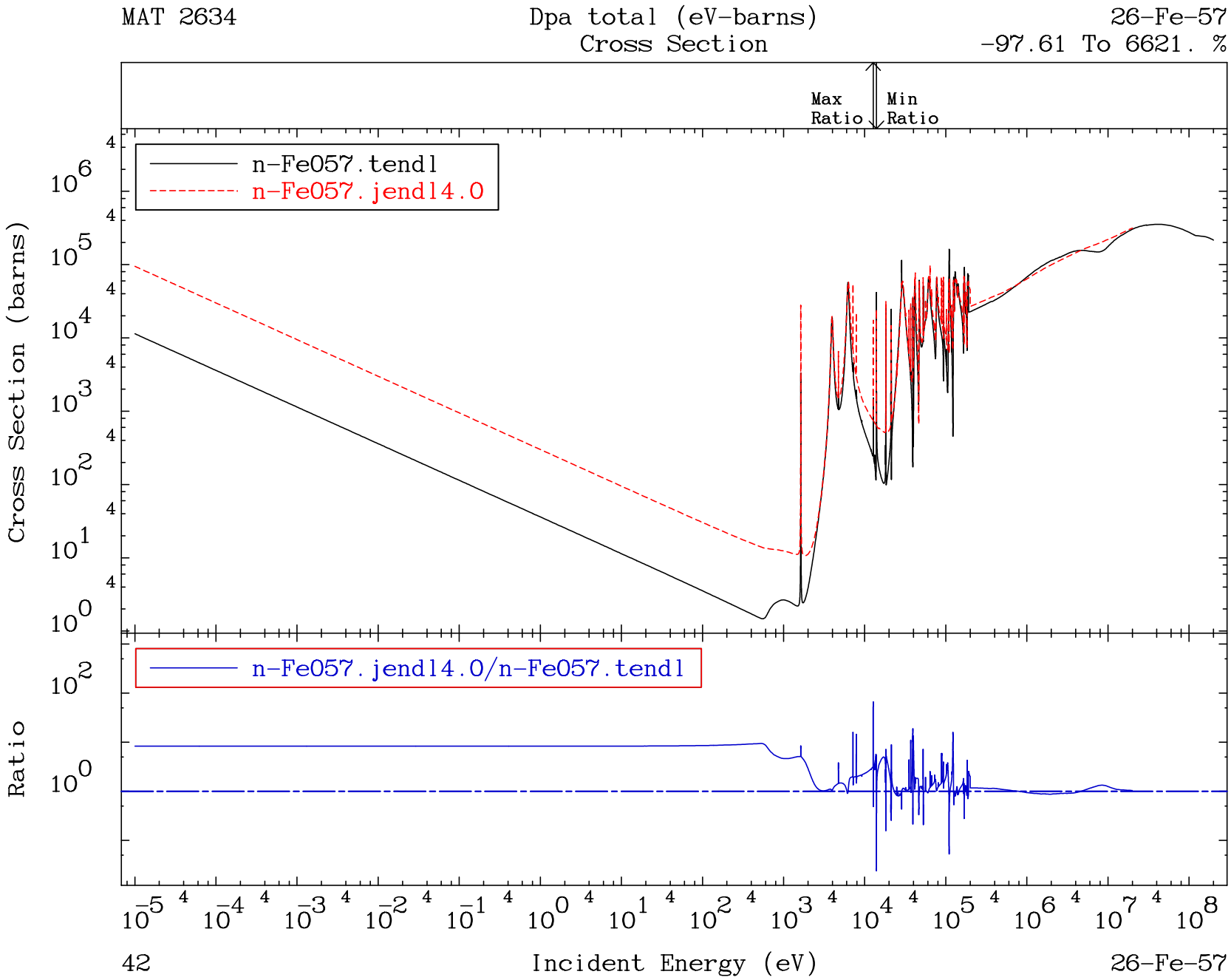

MAT 2634
Kerma inelastic (mt51-91)
Cross Section
26-Fe-57
-56.63 To 9999. %
Max Ratio
Min Ratio
n-Fe057.tendl Threshold 189.96 keV
n-Fe057.jendl4.0 Threshold 14.669 keV
Cross Section (barns)
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
Incident Energy (eV)
37
26-Fe-57

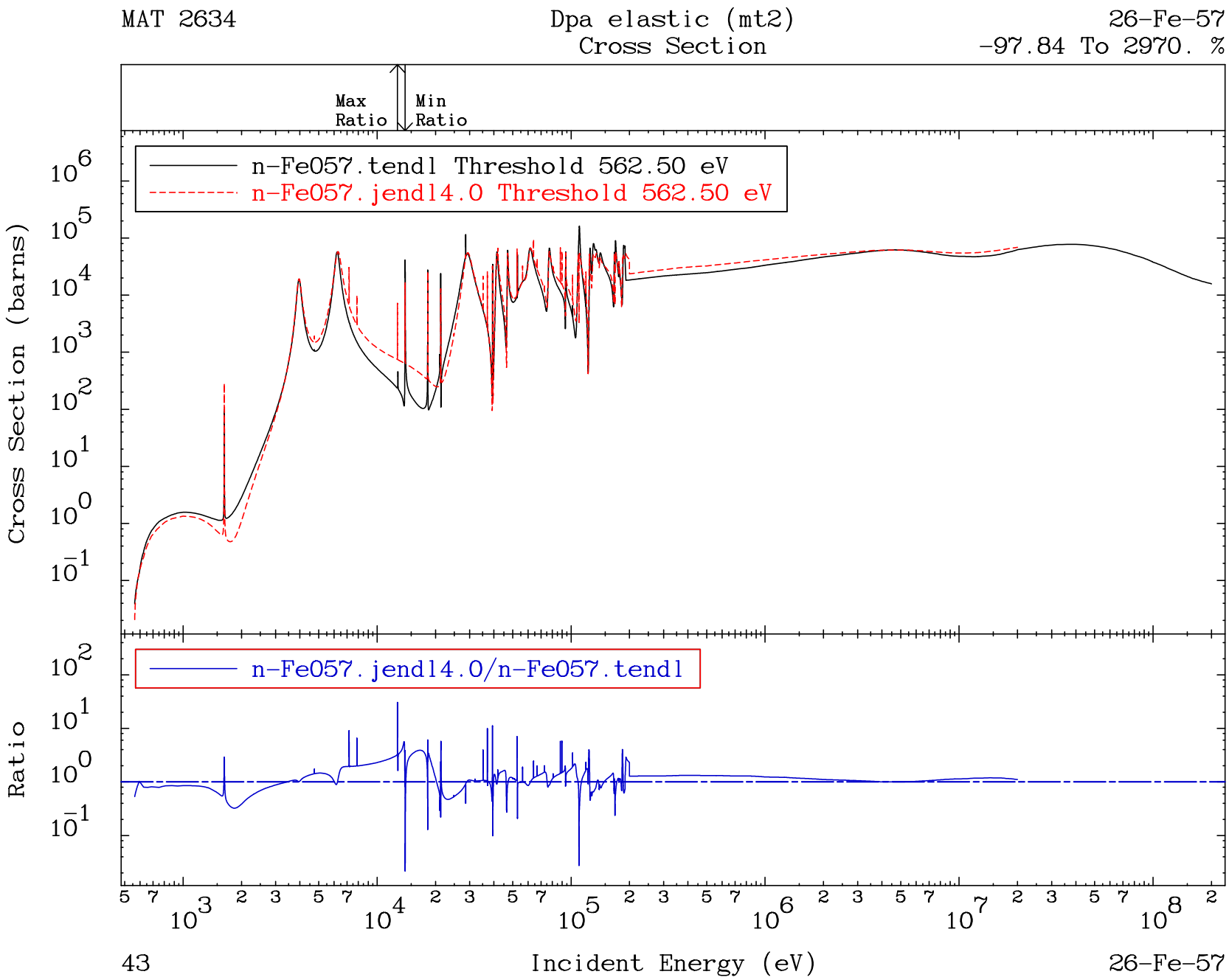

MAT 2634
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
26-Fe-57
-56.63 To 9999. %
Max Ratio
Min Ratio
n-Fe057.tendl
n-Fe057.jendl4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^6
10^4
10^2
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
38
Incident Energy (eV)
26-Fe-57

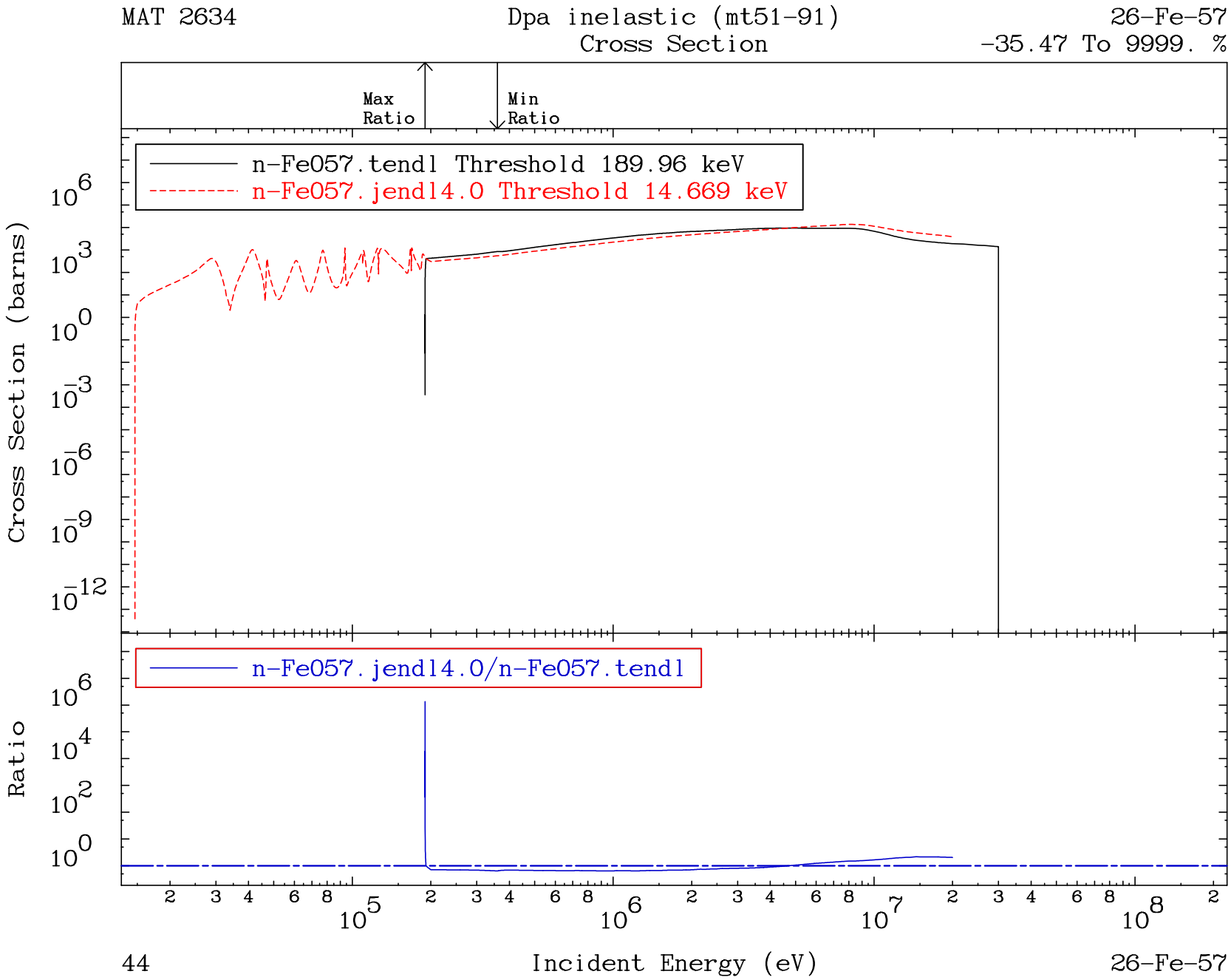

MAT 2634
Kerma capture (mt102)
Cross Section
26-Fe-57
-99.93 To 9999. %
Min Ratio
Max Ratio
n-Fe057.tendl
n-Fe057.jendl4.0
Cross Section (barns)
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
39
Incident Energy (eV)
26-Fe-57

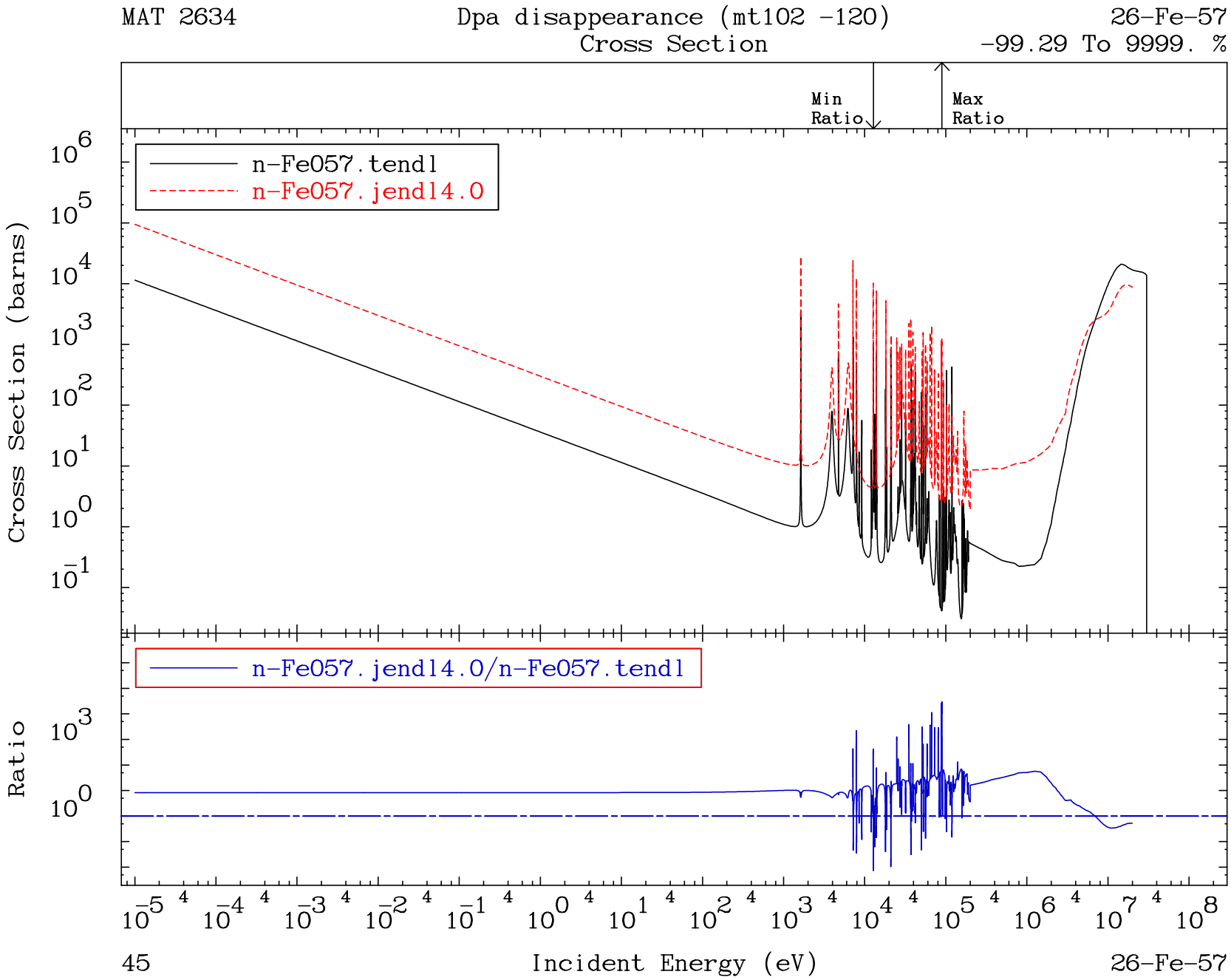

MAT 2634
Total photon (eV-barns)
Cross Section
26-Fe-57
-99.93 To 9999. %
Min Ratio
Max Ratio
n-Fe057.tendl
n-Fe057.jendl4.0
Cross Section (Giga-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
10^4
10^2
10^0
10^-2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
40
Incident Energy (eV)
26-Fe-57


MAT 2634
Total kinematic kerma (high limit)
Cross Section
26-Fe-57
-100.0 To 325.1 %
Min Ratio
Max Ratio
n-Fe057.tendl
n-Fe057.jendl4.0
Cross Section (barns)
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
Incident Energy (eV)
41
26-Fe-57


MAT 2634
Dpa total (eV-barns)
Cross Section
26-Fe-57
-97.61 To 6621. %
Max Ratio
Min Ratio
n-Fe057.tendl
n-Fe057.jendl4.0
Cross Section (barns)
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
Incident Energy (eV)
42
26-Fe-57


MAT 2634
Dpa elastic (mt2)
Cross Section
26-Fe-57
-97.84 To 2970. %
Max Ratio
Min Ratio
n-Fe057.tendl Threshold 562.50 eV
n-Fe057.jendl4.0 Threshold 562.50 eV
Cross Section (barns)
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
Incident Energy (eV)
43
26-Fe-57


MAT 2634
Dpa inelastic (mt51-91)
Cross Section
26-Fe-57
-35.47 To 9999. %
Max Ratio
Min Ratio
n-Fe057.tendl Threshold 189.96 keV
n-Fe057.jendl4.0 Threshold 14.669 keV
Cross Section (barns)
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
Incident Energy (eV)
44
26-Fe-57


MAT 2634
Dpa disappearance (mt102 -120)
Cross Section
26-Fe-57
-99.29 To 9999. %
Min Ratio
Max Ratio
n-Fe057.tendl
n-Fe057.jendl4.0
Cross Section (barns)
n-Fe057.jendl4.0/n-Fe057.tendl
Ratio
Incident Energy (eV)
45
26-Fe-57