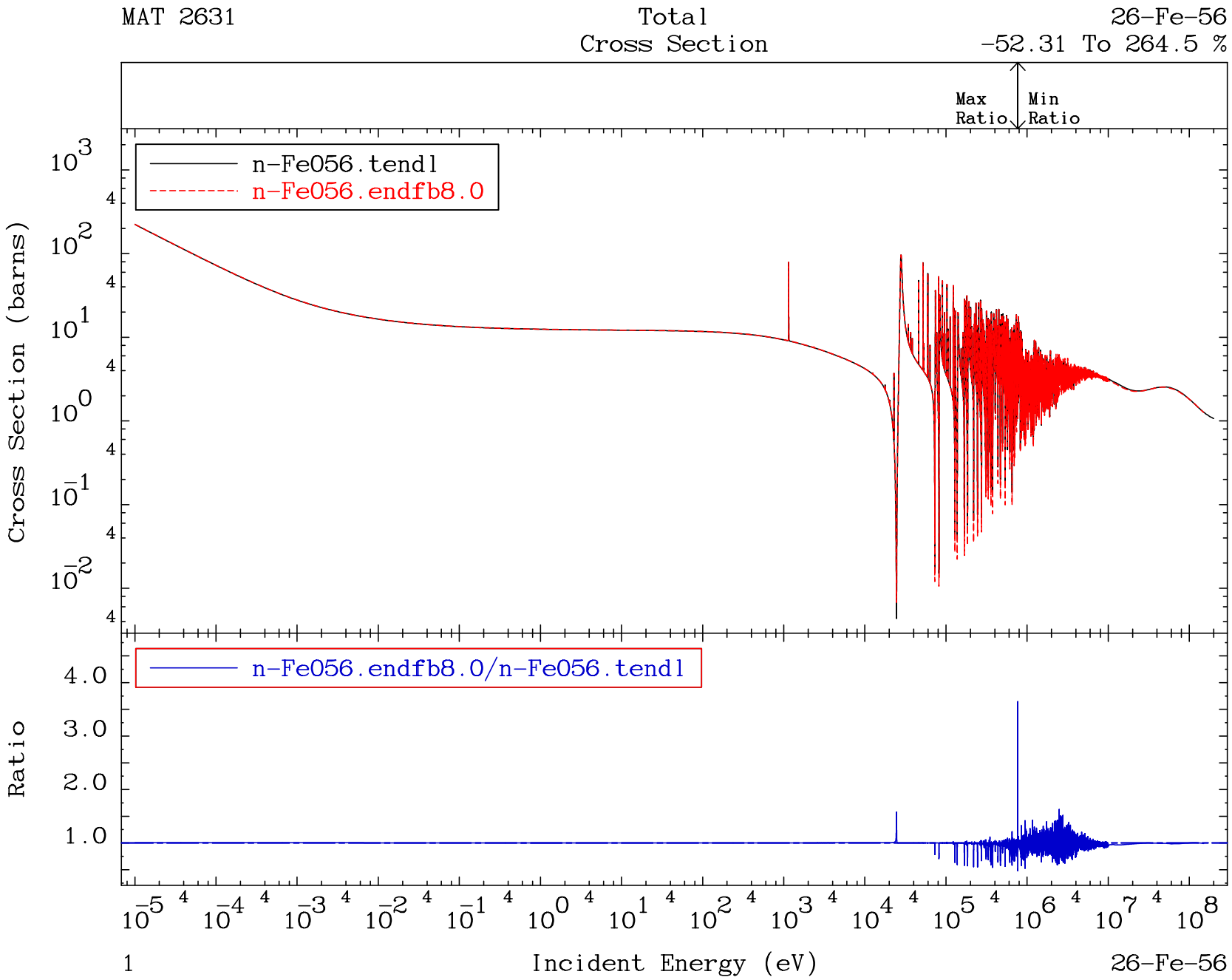
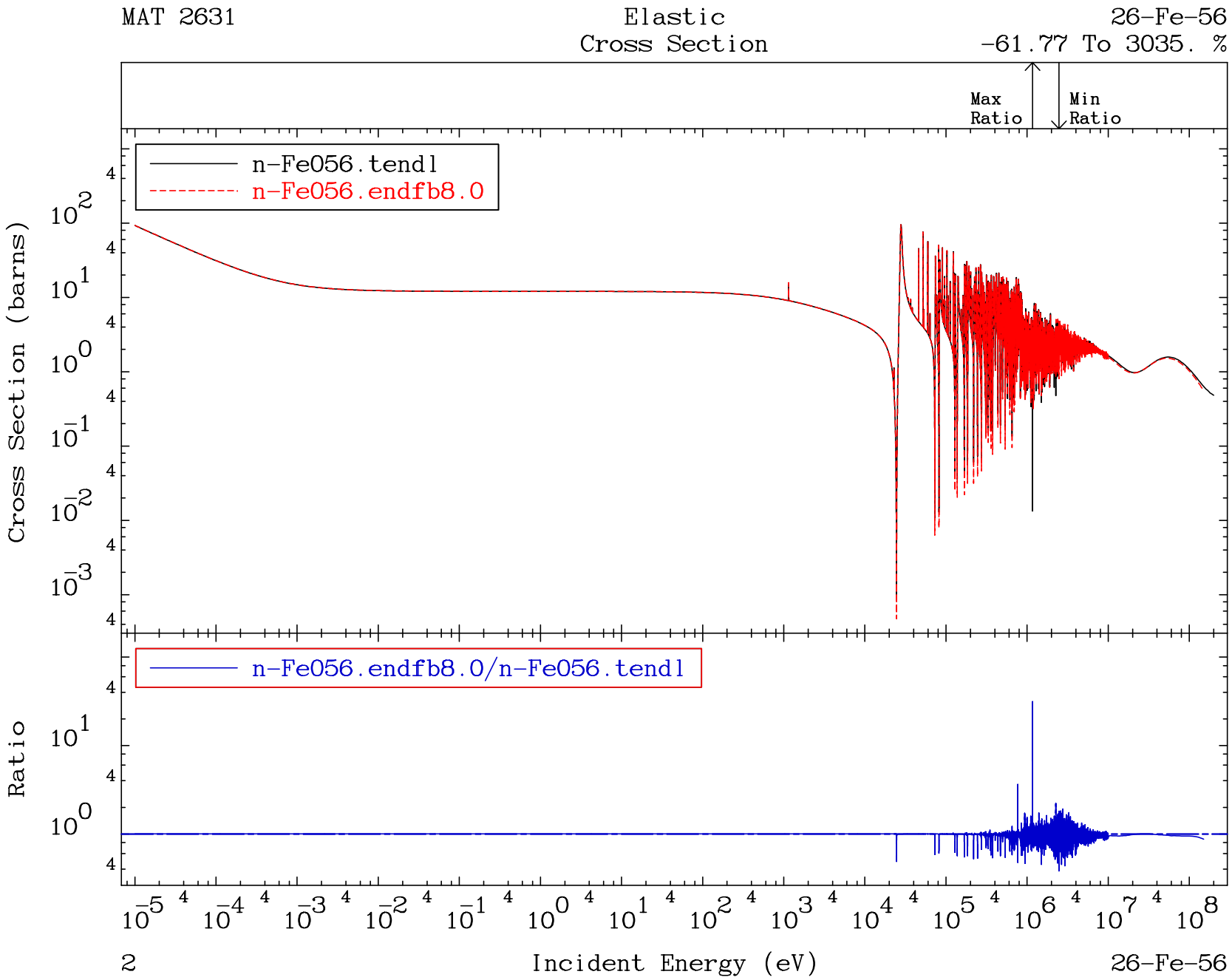
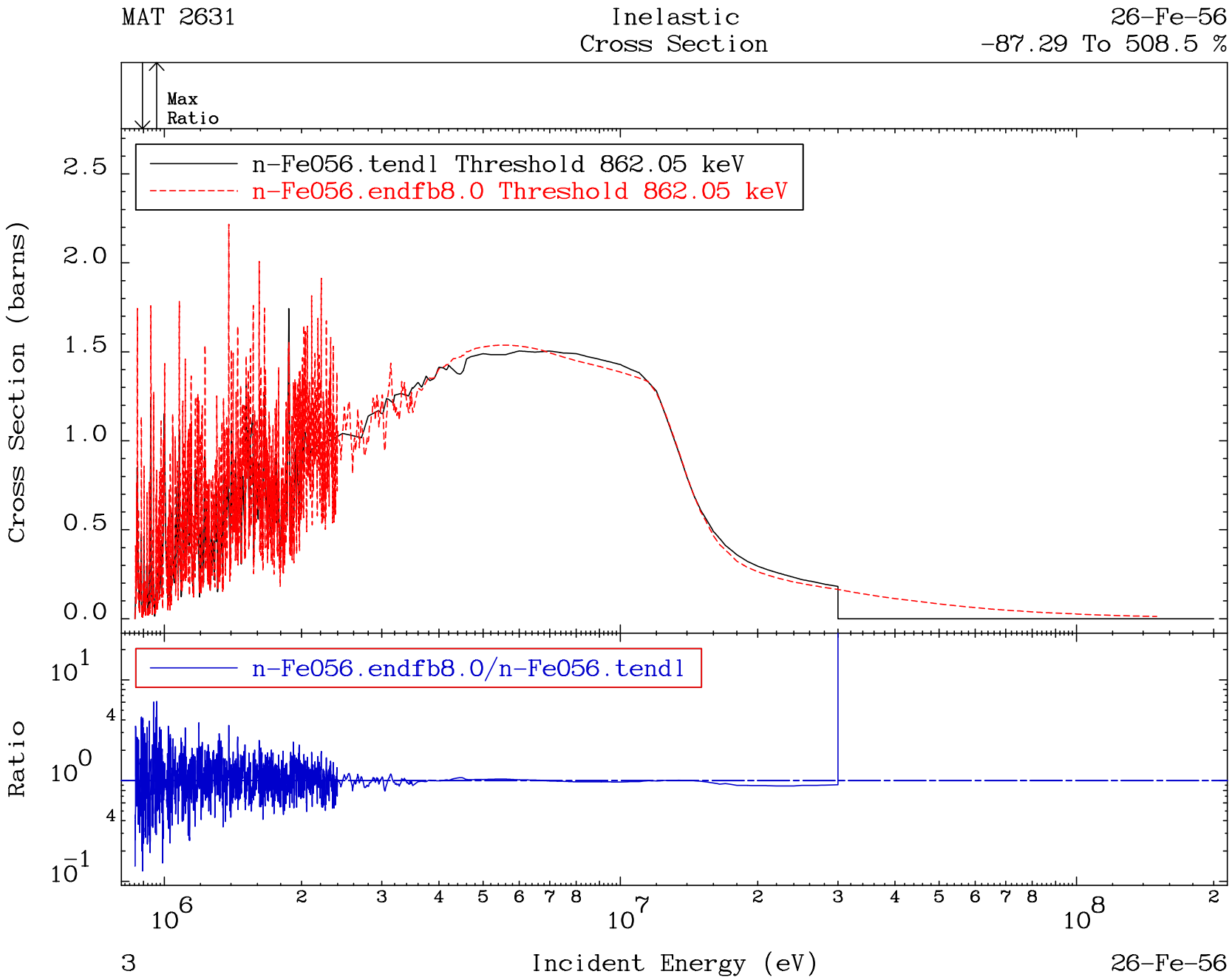
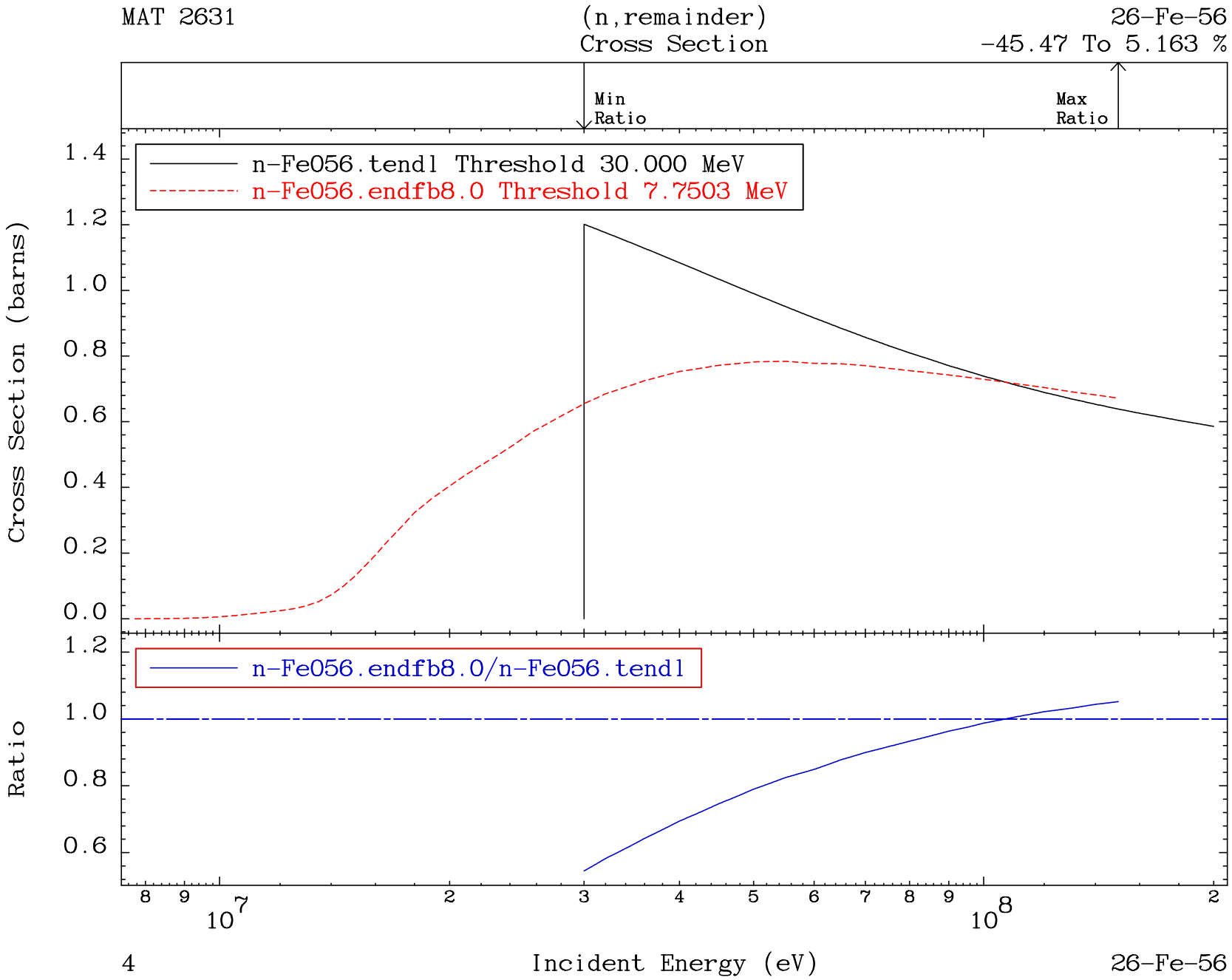
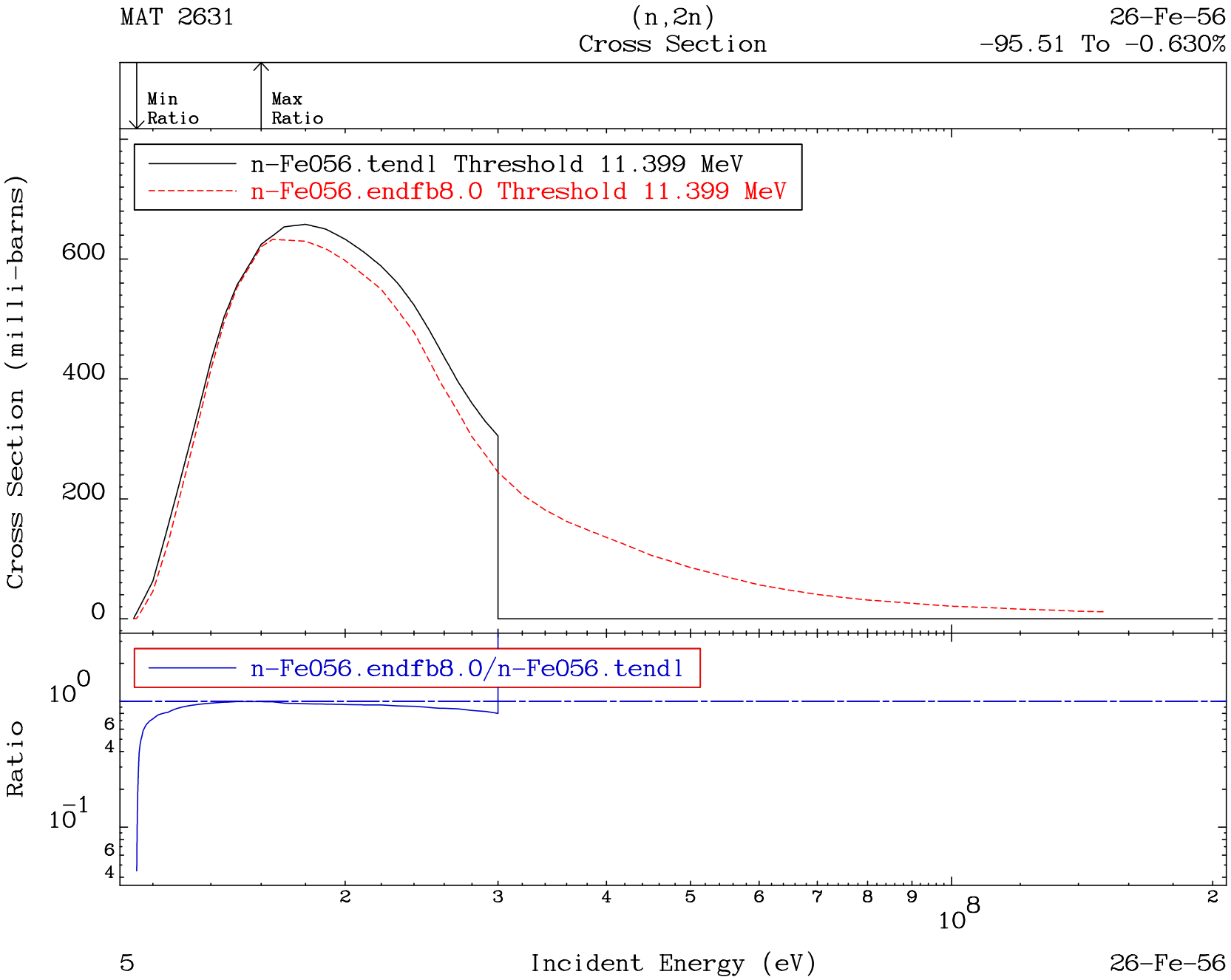
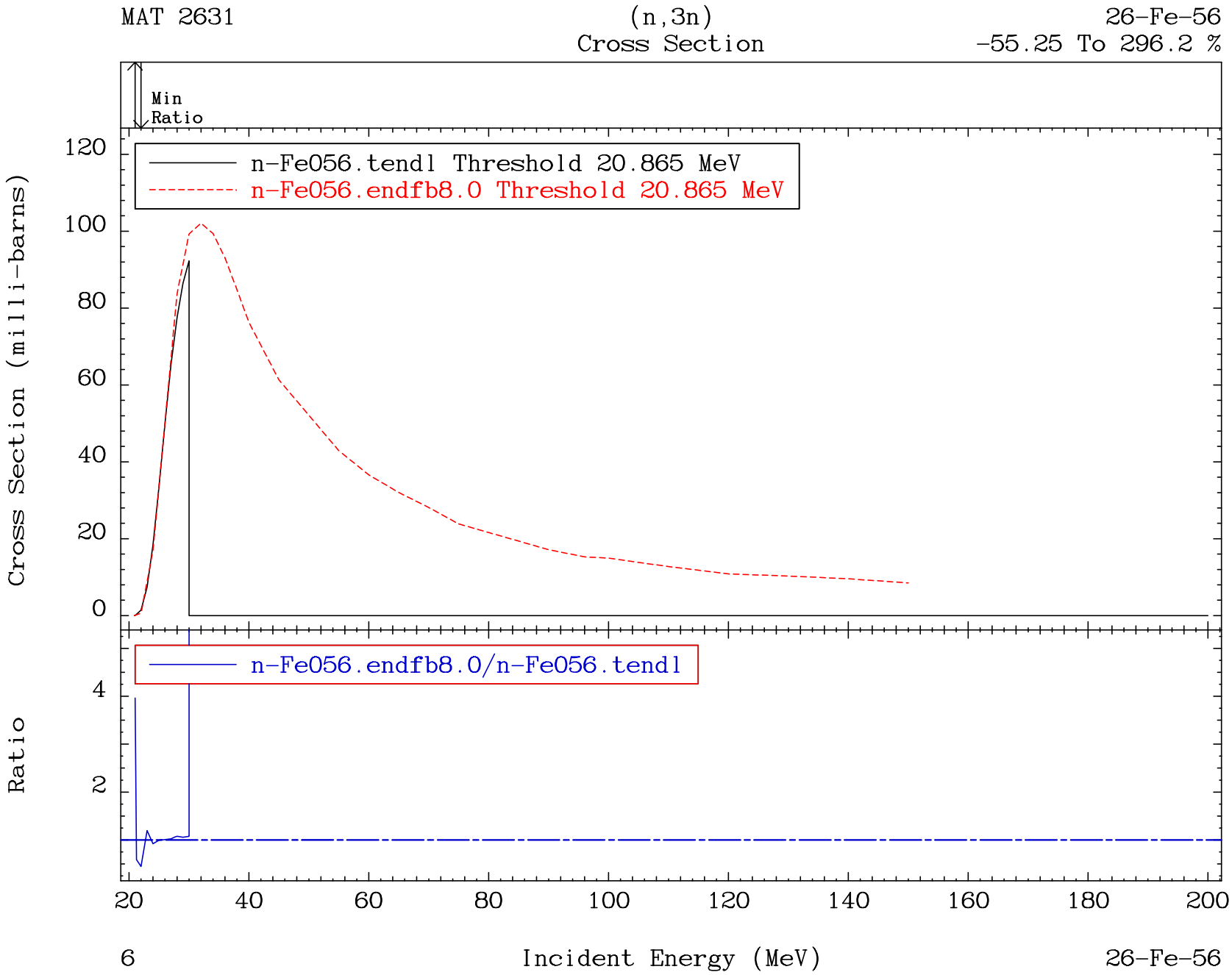

MAT 2631
Total
Cross Section
26-Fe-56
-52.31 To 264.5 %
Max Ratio
Min Ratio
n-Fe056.tendl
n-Fe056.endfb8.0
Cross Section (barns)
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
Incident Energy (eV)
1
26-Fe-56

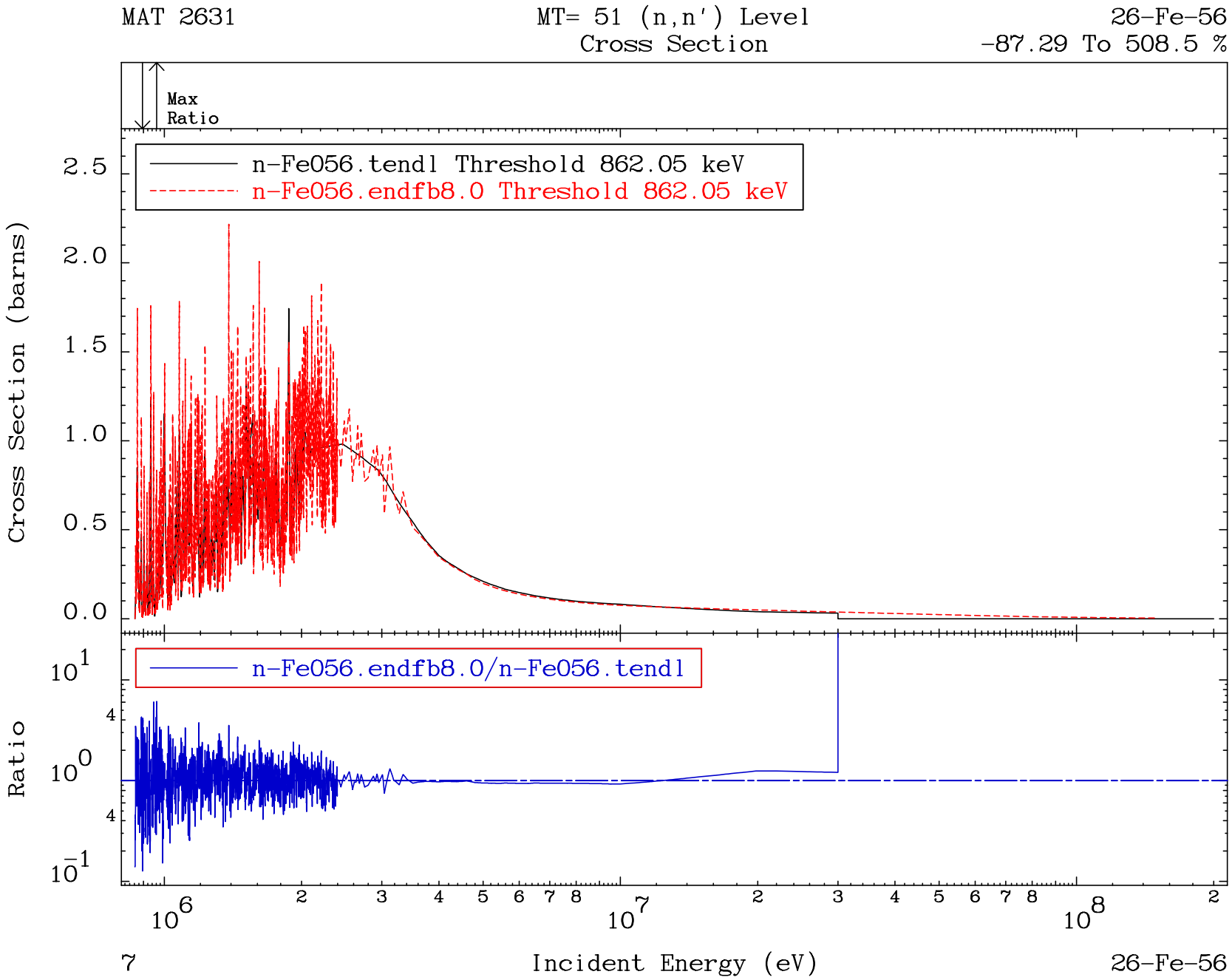

MAT 2631
Elastic
Cross Section
26-Fe-56
-61.77 To 3035. %
Max Ratio
Min Ratio
n-Fe056.tendl
n-Fe056.endfb8.0
Cross Section (barns)
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
Incident Energy (eV)
2
26-Fe-56

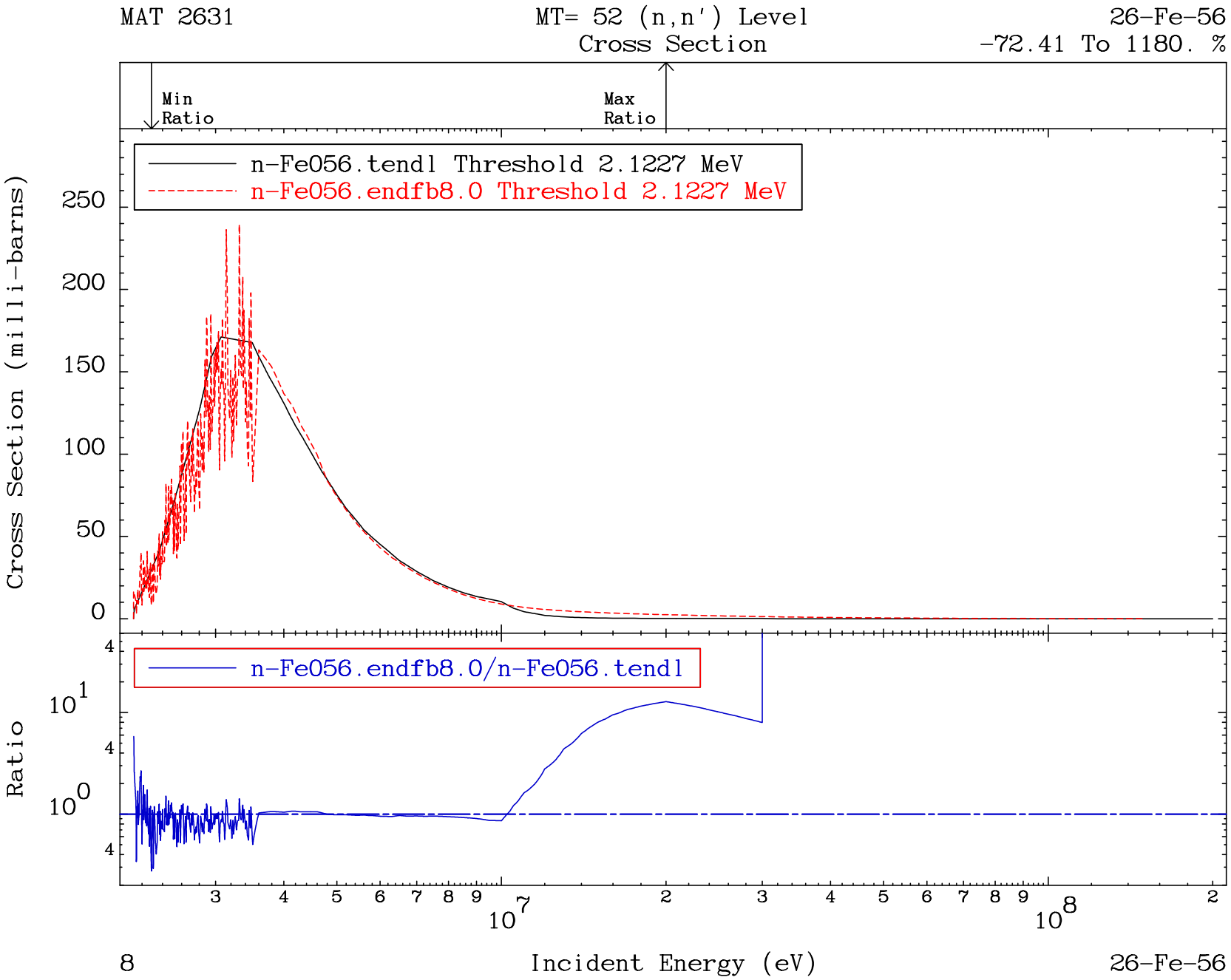

MAT 2631
Inelastic
Cross Section
26-Fe-56
-87.29 To 508.5 %
Max
Ratio
n-Fe056.tendl Threshold 862.05 keV
n-Fe056.endfb8.0 Threshold 862.05 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^1
10^0
10^-1
10^6
10^7
10^8
Incident Energy (eV)
3
26-Fe-56

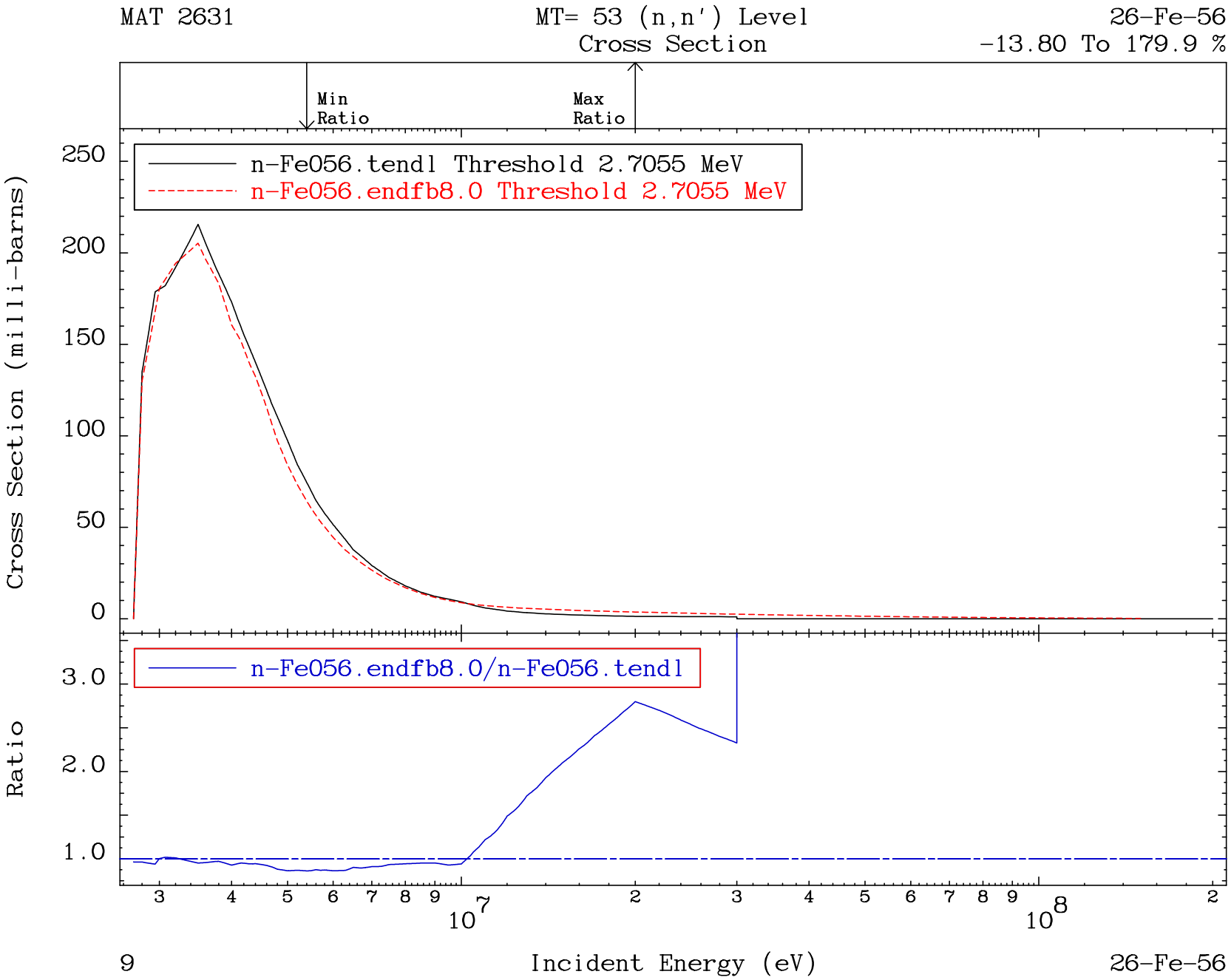

MAT 2631
(n,remainder)
Cross Section
26-Fe-56
-45.47 To 5.163 %
Min
Ratio
Max
Ratio
n-Fe056.tendl Threshold 30.000 MeV
n-Fe056.endfb8.0 Threshold 7.7503 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
1.2
1.0
0.8
0.6
8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
4
Incident Energy (eV)
26-Fe-56

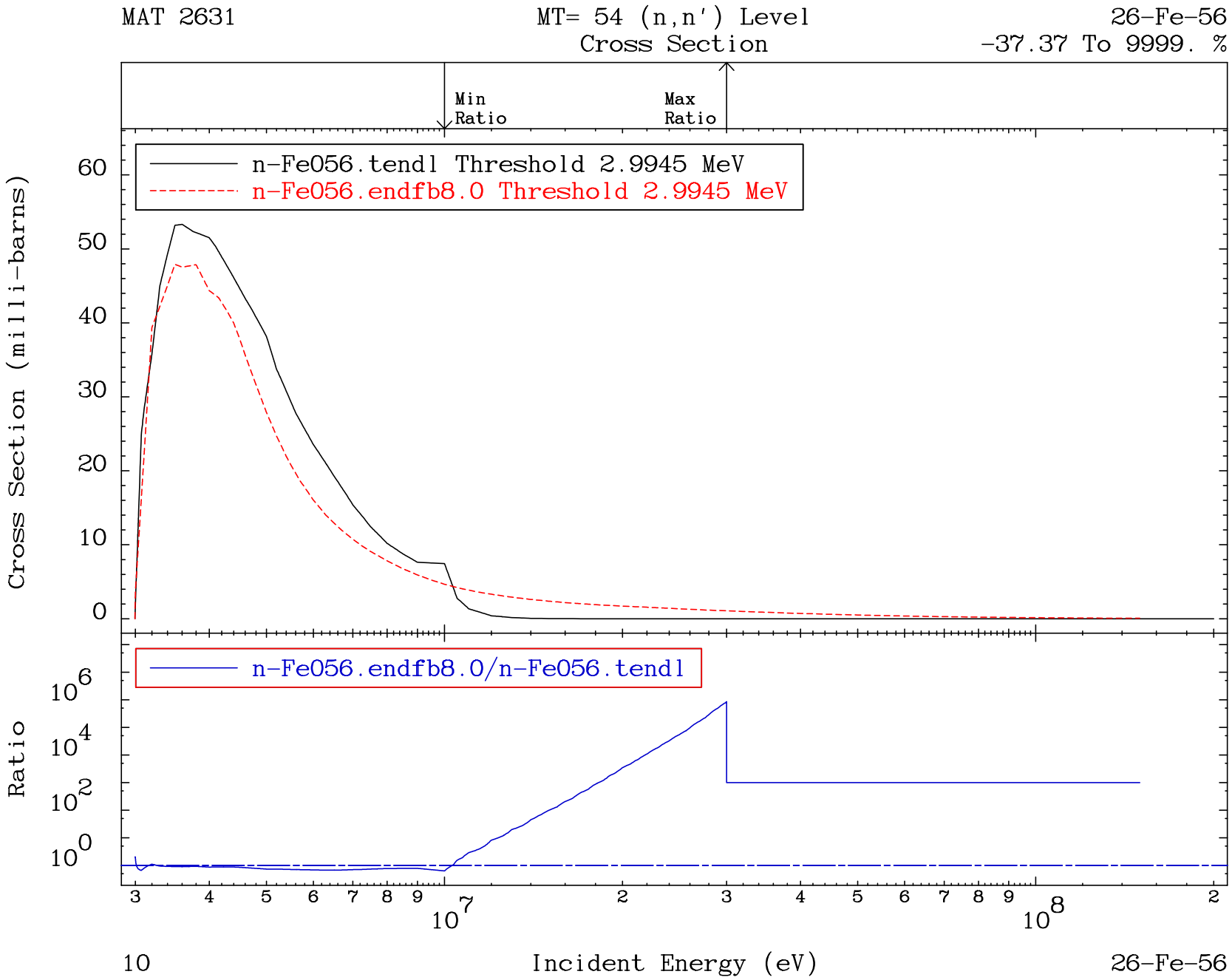

MAT 2631
(n,2n)
Cross Section
26-Fe-56
-95.51 To -0.630%
Min Ratio
Max Ratio
n-Fe056.tendl Threshold 11.399 MeV
n-Fe056.endfb8.0 Threshold 11.399 MeV
Cross Section (milli-barns)
600
400
200
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^0
6
4
10^-1
6
4
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
26-Fe-56

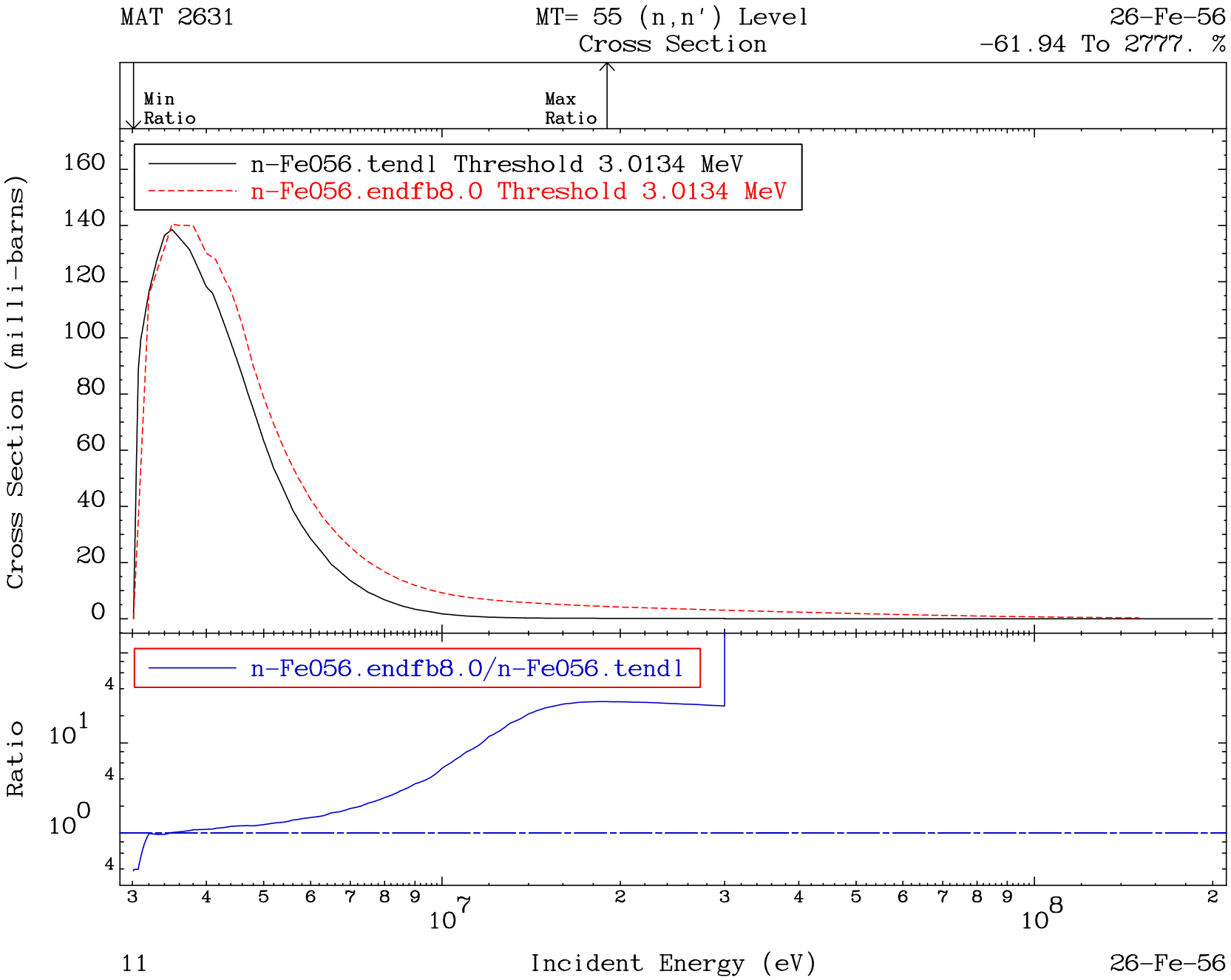

MAT 2631
(n,3n)
Cross Section
26-Fe-56
-55.25 To 296.2 %
Min
Ratio
n-Fe056.tendl Threshold 20.865 MeV
n-Fe056.endfb8.0 Threshold 20.865 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
4
2
20
40
60
80
100
120
140
160
180
200
6
Incident Energy (MeV)
26-Fe-56

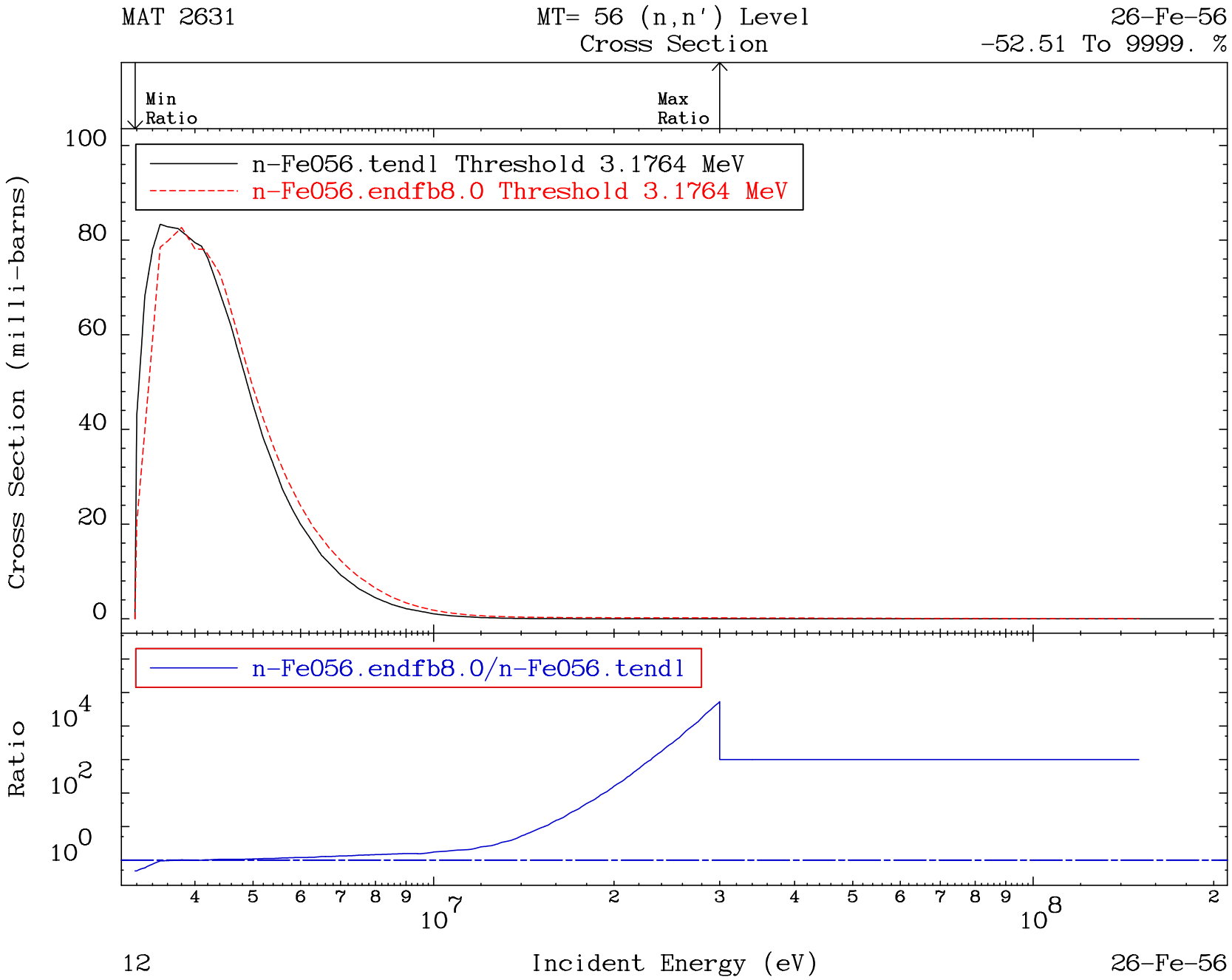

MAT 2631
MT= 51 (n,n') Level
Cross Section
26-Fe-56
-87.29 To 508.5 %
Max
Ratio
n-Fe056.tendl Threshold 862.05 keV
n-Fe056.endfb8.0 Threshold 862.05 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^1
10^0
10^-1
10^6
10^7
10^8
Incident Energy (eV)
7
26-Fe-56

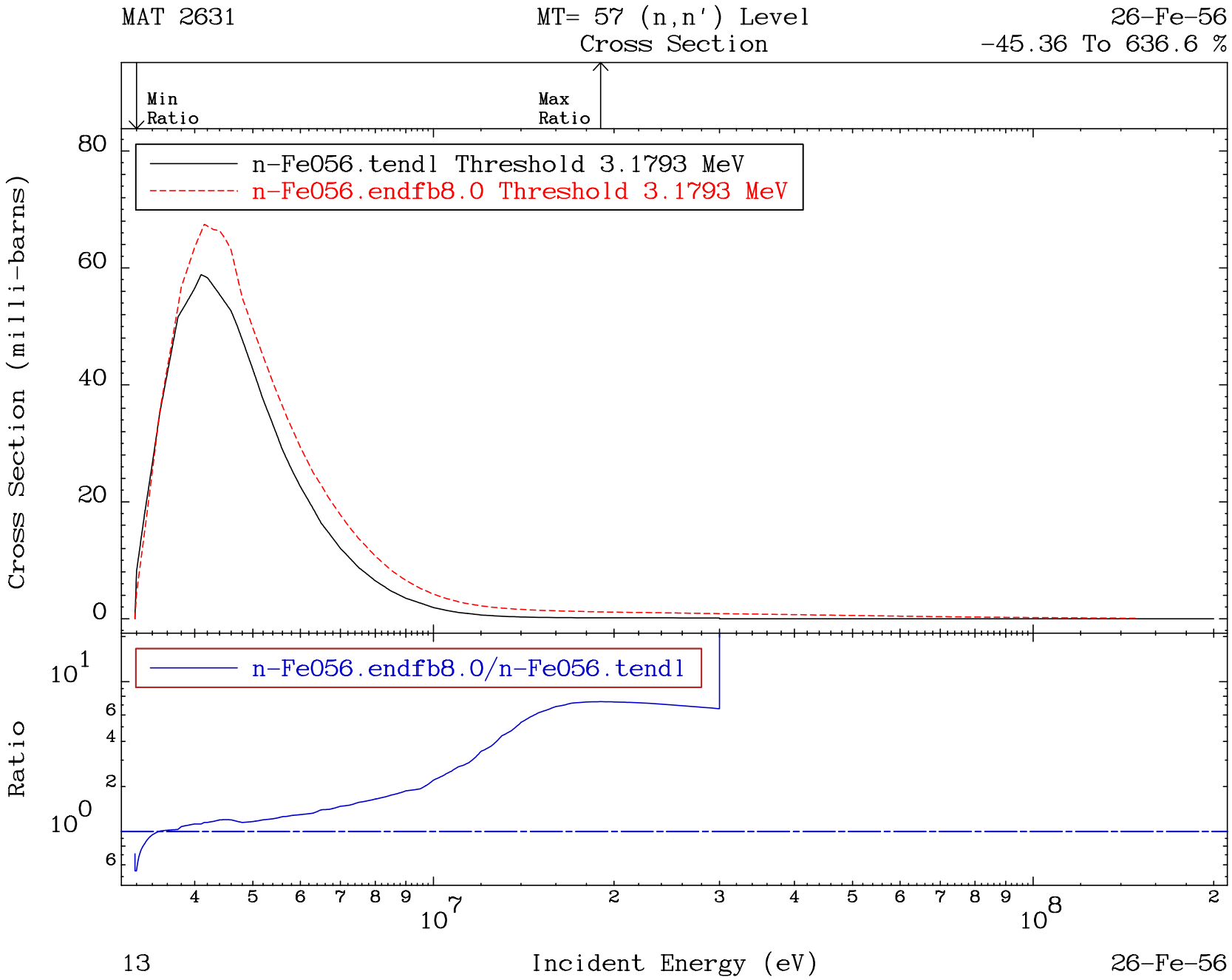

MAT 2631
MT= 52 (n,n') Level
Cross Section
26-Fe-56
-72.41 To 1180. %
Min Ratio
Max Ratio
n-Fe056.tendl Threshold 2.1227 MeV
n-Fe056.endfb8.0 Threshold 2.1227 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^1
10^0
4
4
4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
8
Incident Energy (eV)
26-Fe-56

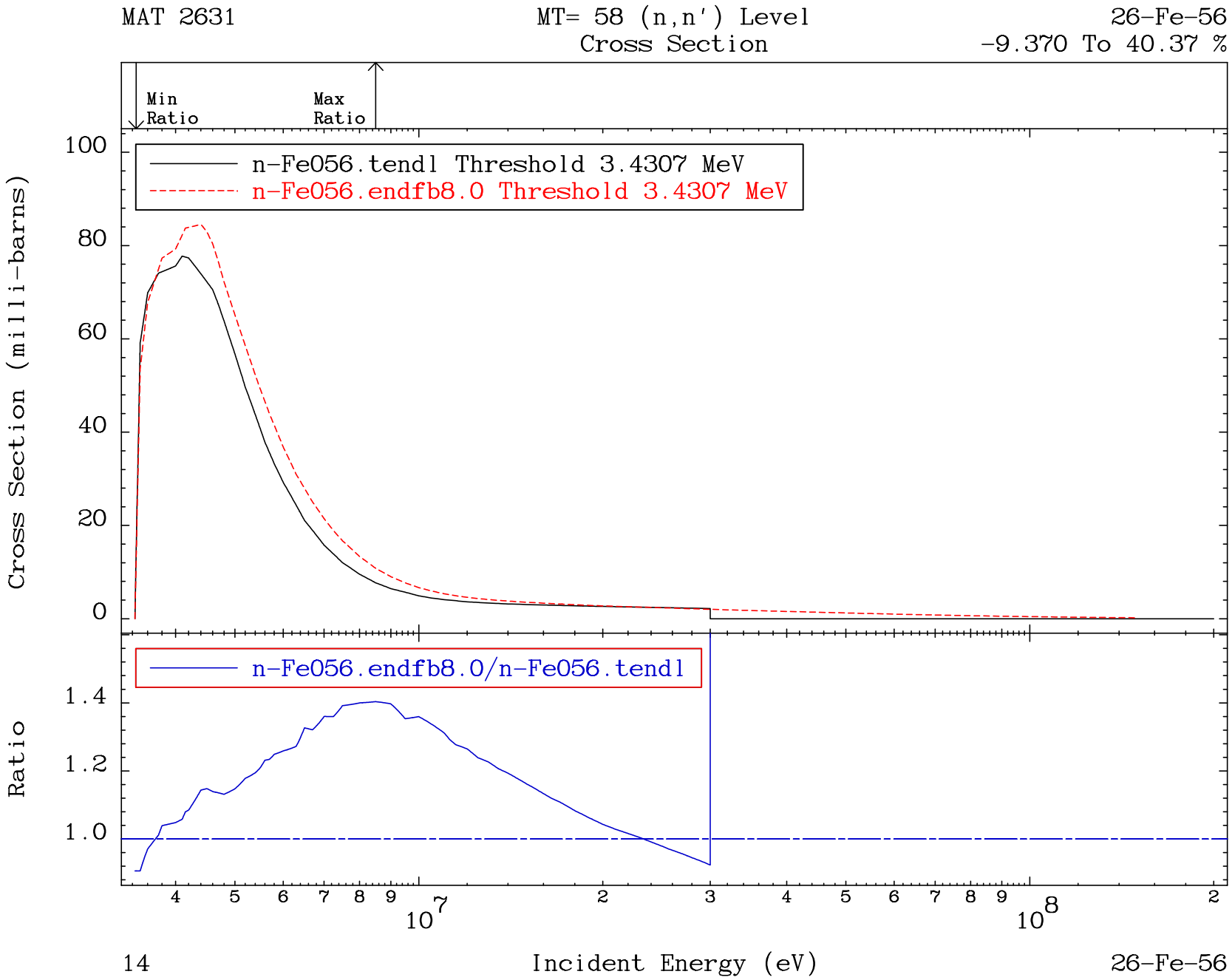

MAT 2631
MT= 53 (n,n') Level
Cross Section
26-Fe-56
-13.80 To 179.9 %
Min
Ratio
Max
Ratio
n-Fe056.tendl Threshold 2.7055 MeV
n-Fe056.endfb8.0 Threshold 2.7055 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
3.0
2.0
1.0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
9
Incident Energy (eV)
26-Fe-56

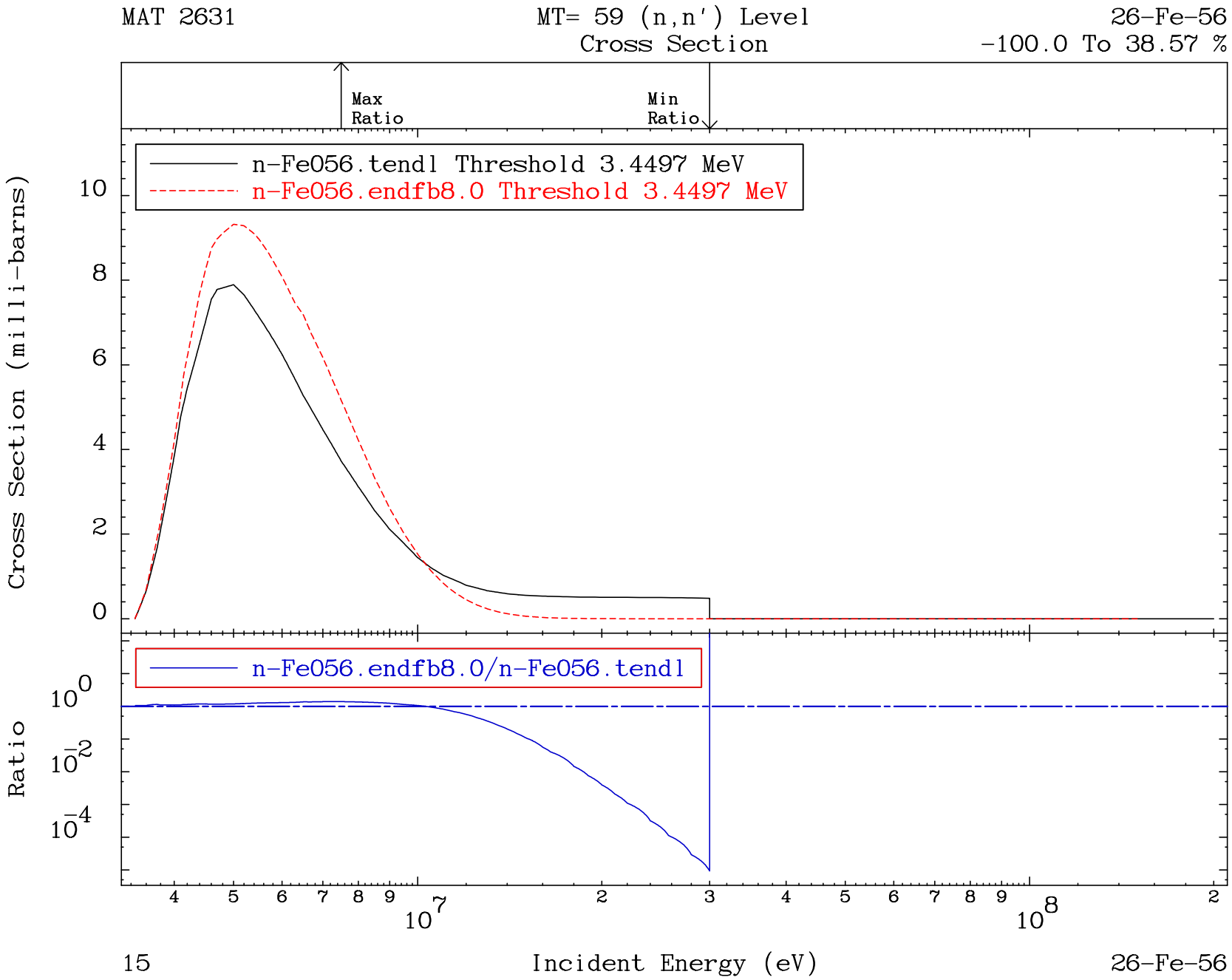

MAT 2631
MT= 54 (n,n') Level
Cross Section
26-Fe-56
-37.37 To 9999. %
Min
Ratio
Max
Ratio
n-Fe056.tendl Threshold 2.9945 MeV
n-Fe056.endfb8.0 Threshold 2.9945 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^6
10^4
10^2
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
10
Incident Energy (eV)
26-Fe-56

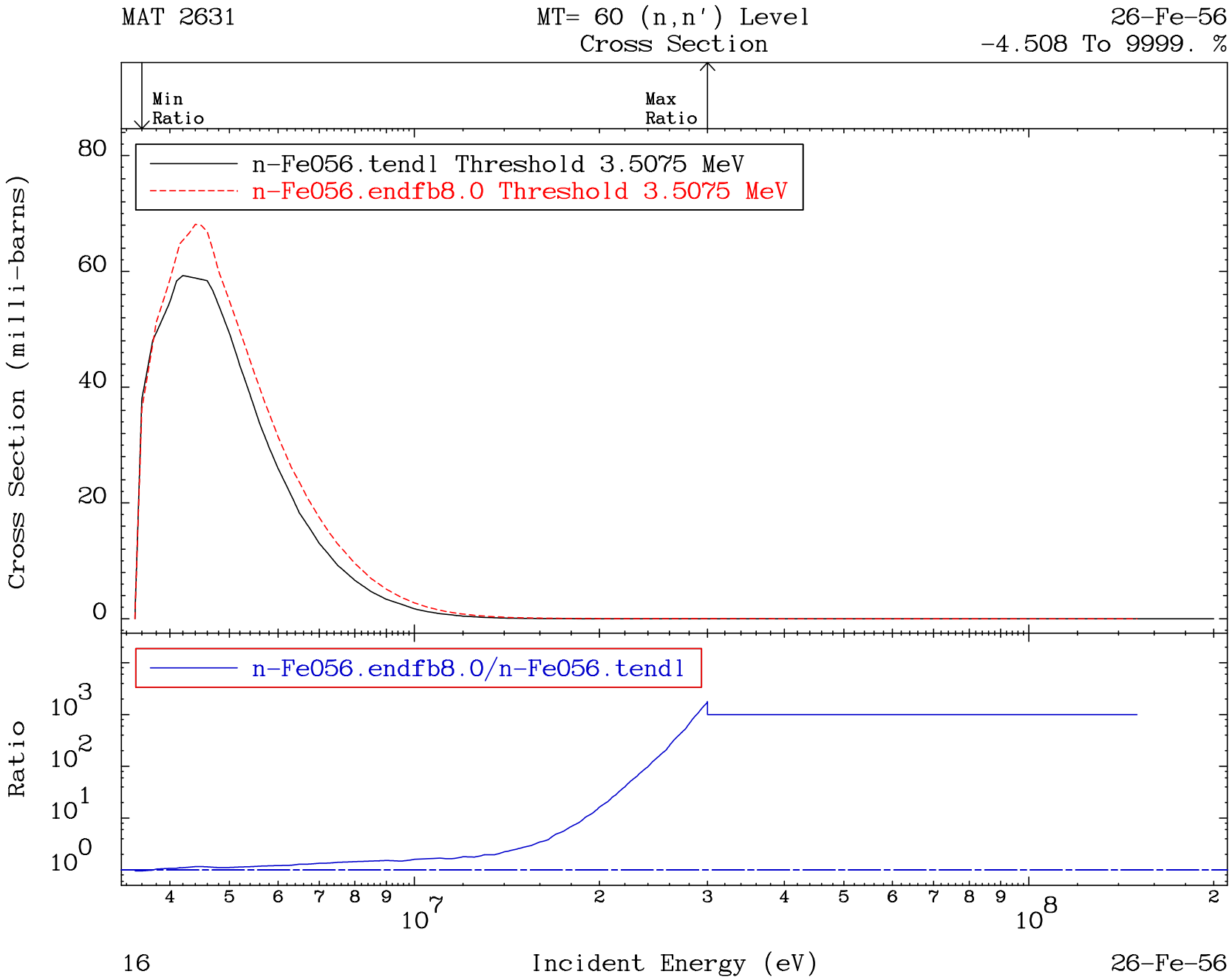

MAT 2631
MT= 55 (n,n') Level
Cross Section
26-Fe-56
-61.94 To 2777. %
Min
Ratio
Max
Ratio
n-Fe056.tendl Threshold 3.0134 MeV
n-Fe056.endfb8.0 Threshold 3.0134 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^1
10^0
4
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
26-Fe-56

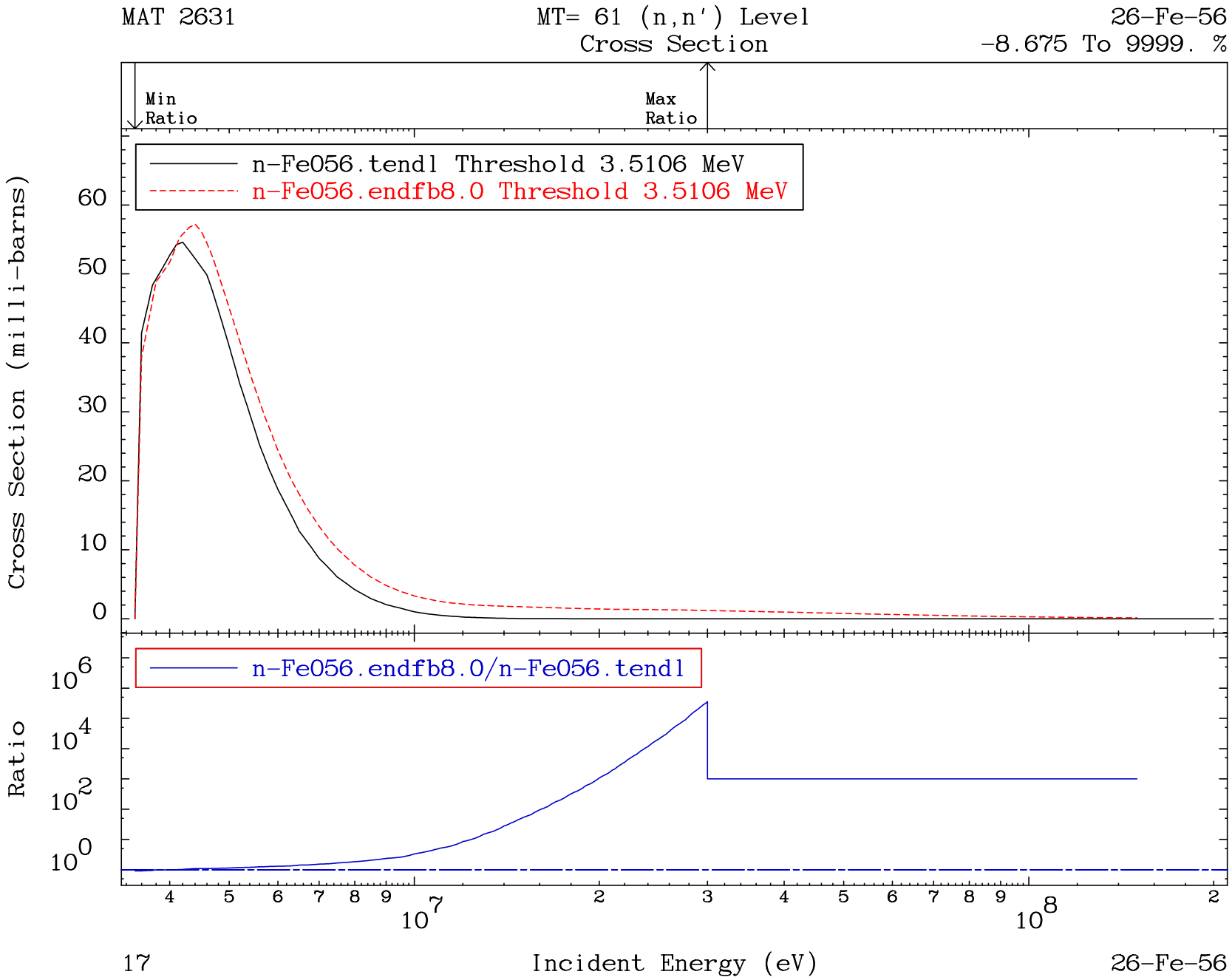

MAT 2631
MT= 56 (n,n') Level
Cross Section
26-Fe-56
-52.51 To 9999. %
Min
Ratio
Max
Ratio
n-Fe056.tendl Threshold 3.1764 MeV
n-Fe056.endfb8.0 Threshold 3.1764 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^4
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
12
Incident Energy (eV)
26-Fe-56

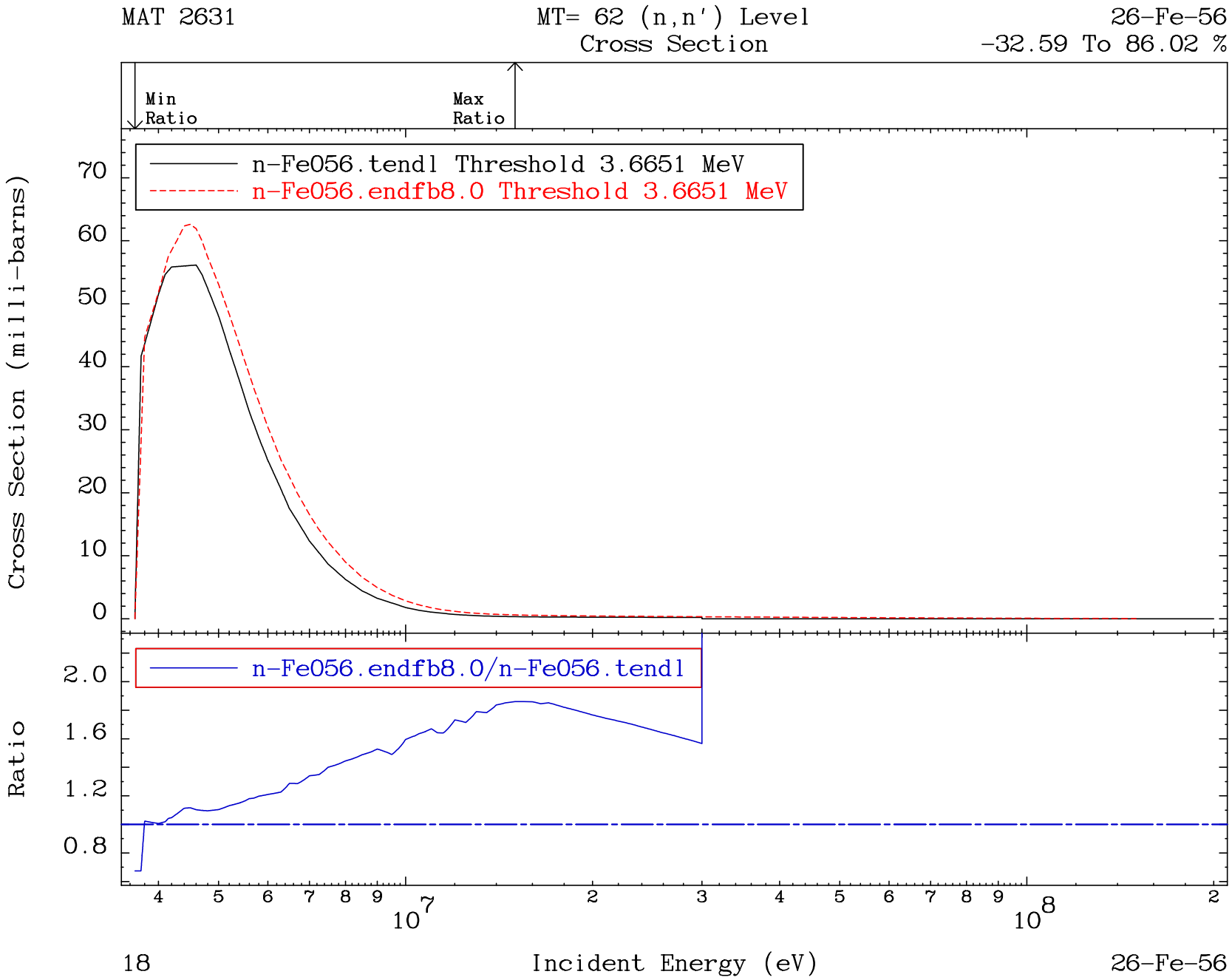

MAT 2631
MT= 57 (n,n') Level
Cross Section
26-Fe-56
-45.36 To 636.6 %
Min Ratio
Max Ratio
n-Fe056.tendl Threshold 3.1793 MeV
n-Fe056.endfb8.0 Threshold 3.1793 MeV
Cross Section (milli-barns)
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
Incident Energy (eV)
13
26-Fe-56

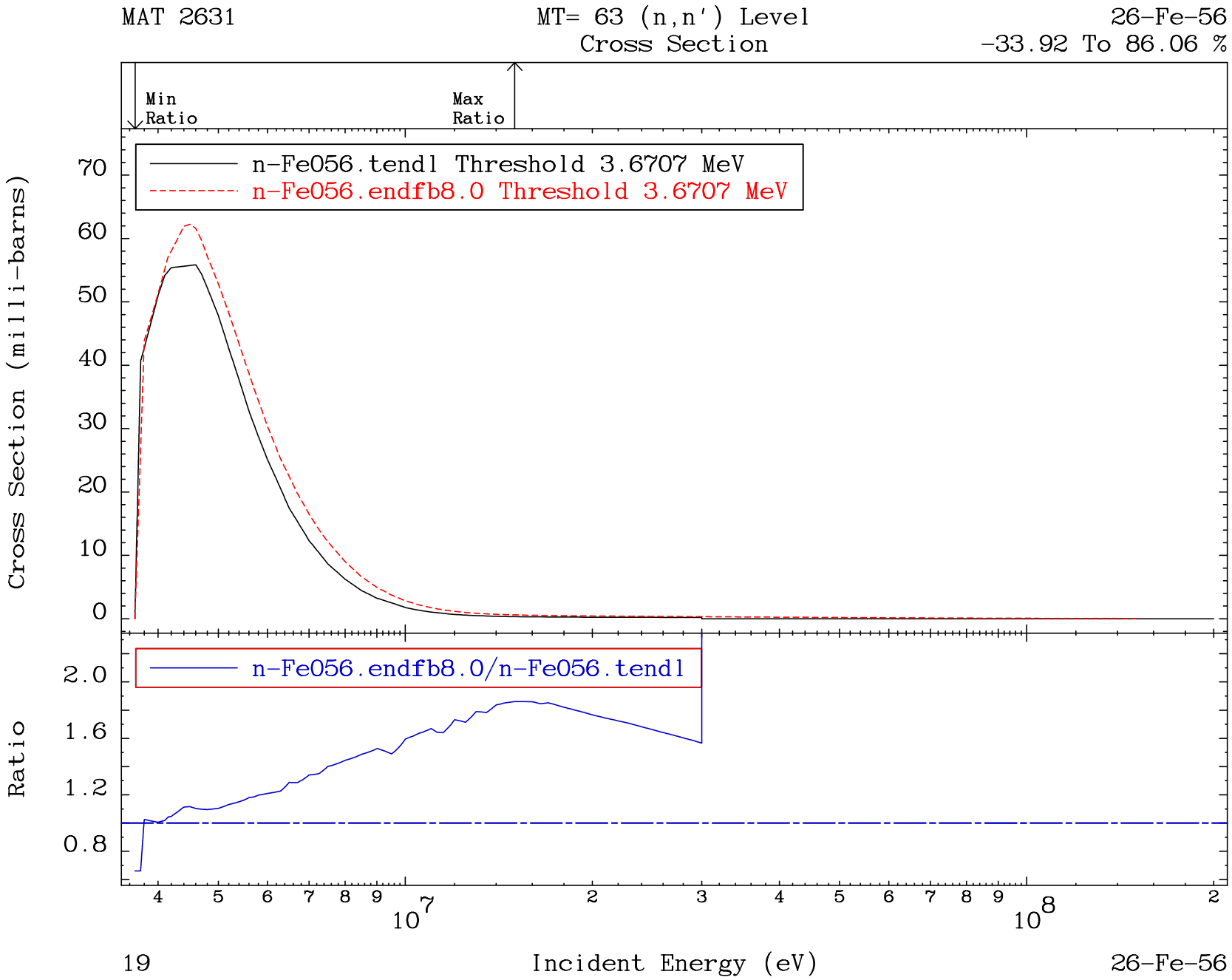

MAT 2631
MT= 58 (n,n') Level
Cross Section
26-Fe-56
-9.370 To 40.37 %
Min Ratio
Max Ratio
n-Fe056.tendl Threshold 3.4307 MeV
n-Fe056.endfb8.0 Threshold 3.4307 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
1.4
1.2
1.0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
14
Incident Energy (eV)
26-Fe-56

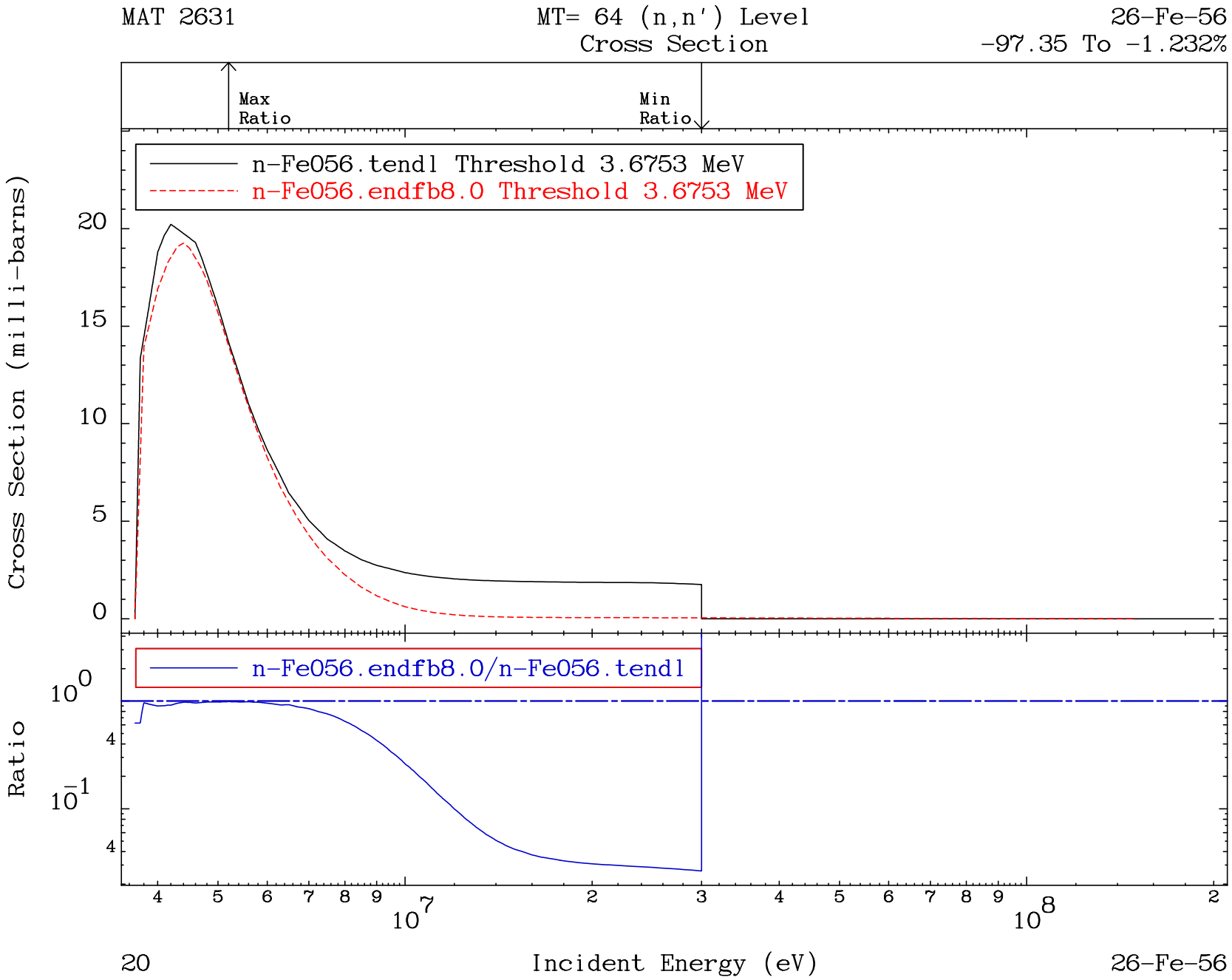

MAT 2631
MT= 59 (n,n') Level
Cross Section
26-Fe-56
-100.0 To 38.57 %
Max Ratio
Min Ratio
n-Fe056.tendl Threshold 3.4497 MeV
n-Fe056.endfb8.0 Threshold 3.4497 MeV
Cross Section (milli-barns)
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
Incident Energy (eV)
15
26-Fe-56

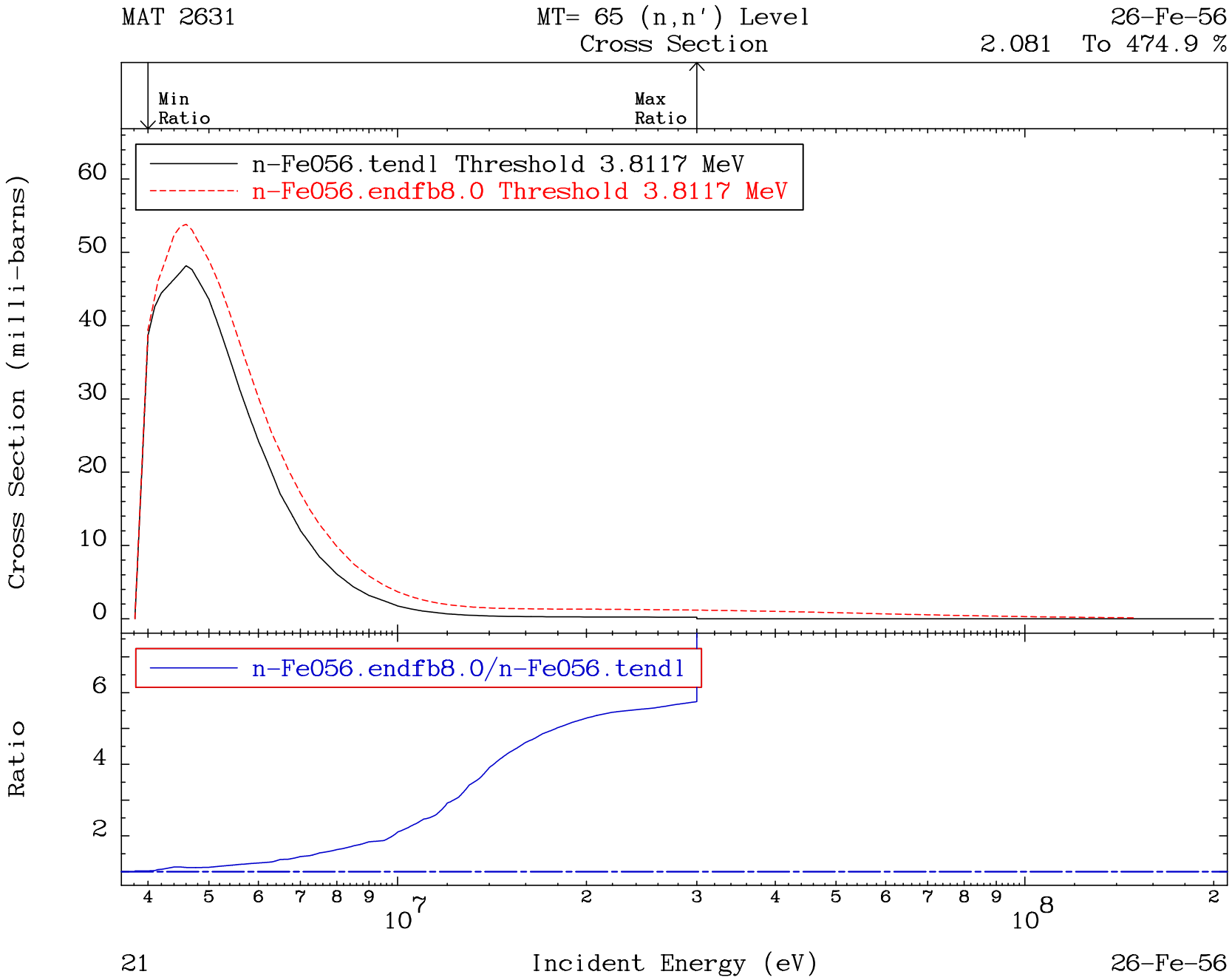

MAT 2631
MT= 60 (n,n') Level
Cross Section
26-Fe-56
-4.508 To 9999. %
Min Ratio
Max Ratio
n-Fe056.tendl Threshold 3.5075 MeV
n-Fe056.endfb8.0 Threshold 3.5075 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^3
10^2
10^1
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
16
Incident Energy (eV)
26-Fe-56

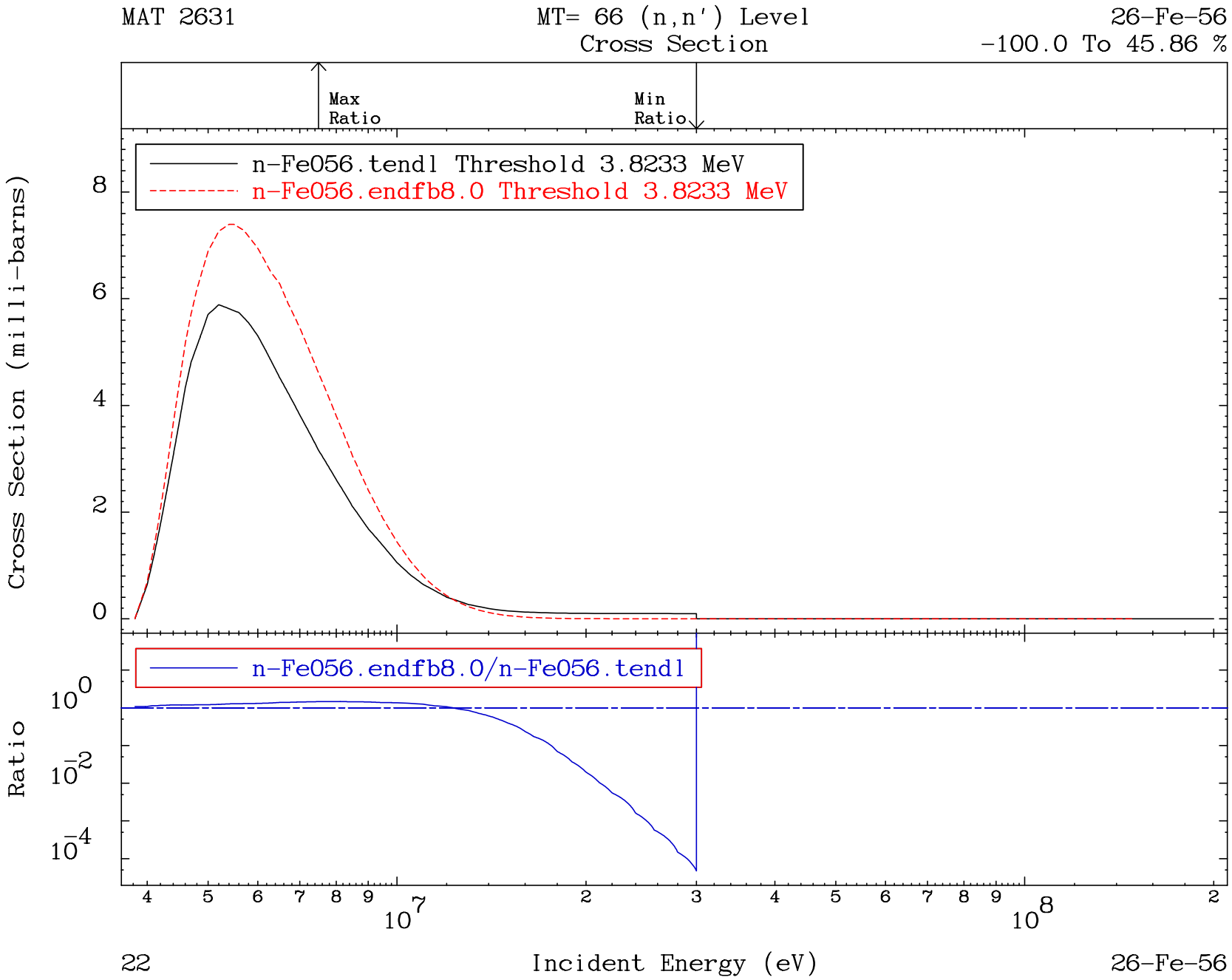

MAT 2631
MT= 61 (n,n') Level
Cross Section
26-Fe-56
-8.675 To 9999. %
Min
Ratio
Max
Ratio
n-Fe056.tendl Threshold 3.5106 MeV
n-Fe056.endfb8.0 Threshold 3.5106 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^6
10^4
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
17
Incident Energy (eV)
26-Fe-56

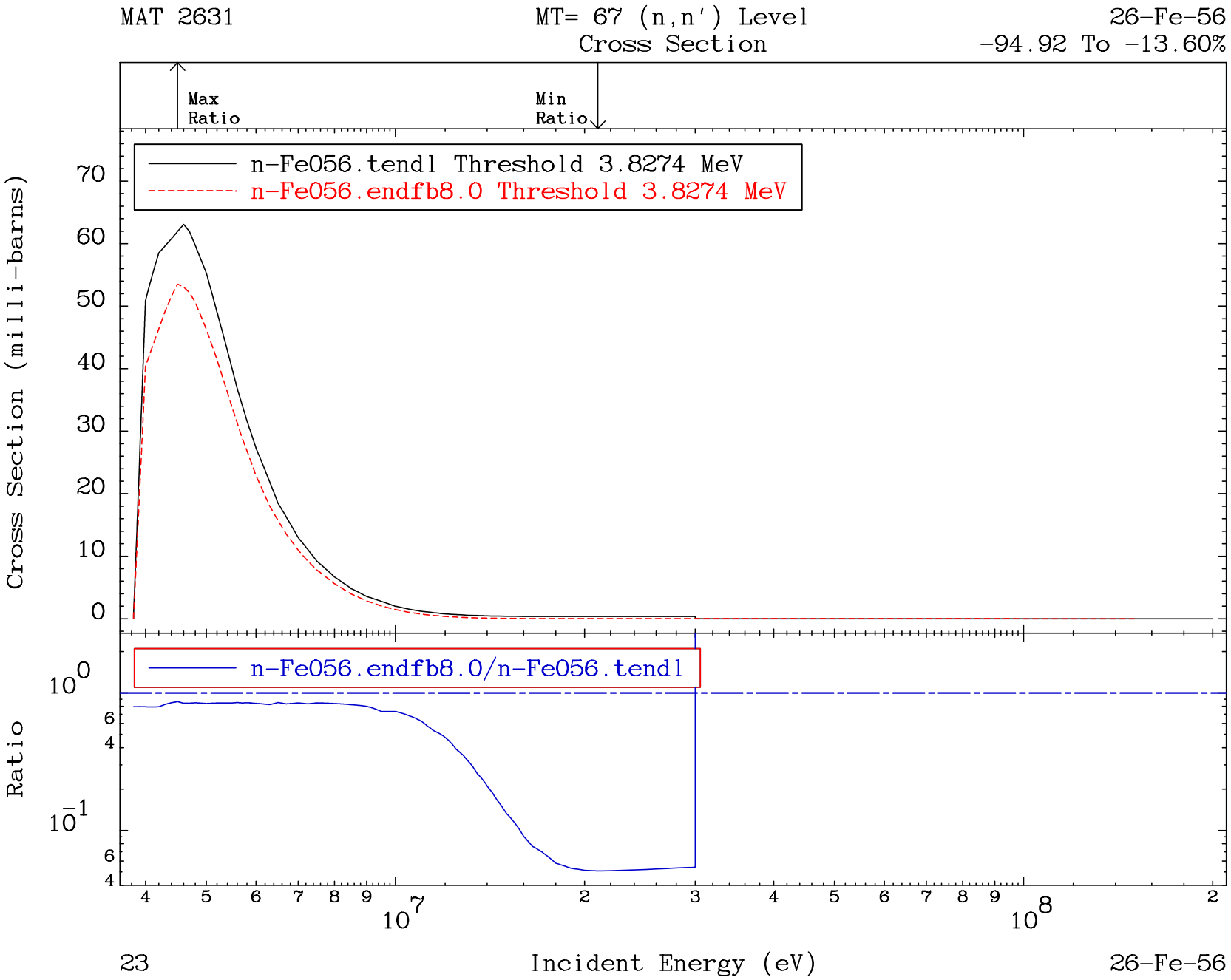

MAT 2631
MT= 62 (n,n') Level
Cross Section
26-Fe-56
-32.59 To 86.02 %
Min Ratio
Max Ratio
n-Fe056.tendl Threshold 3.6651 MeV
n-Fe056.endfb8.0 Threshold 3.6651 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
2.0
1.6
1.2
0.8
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
18
Incident Energy (eV)
26-Fe-56

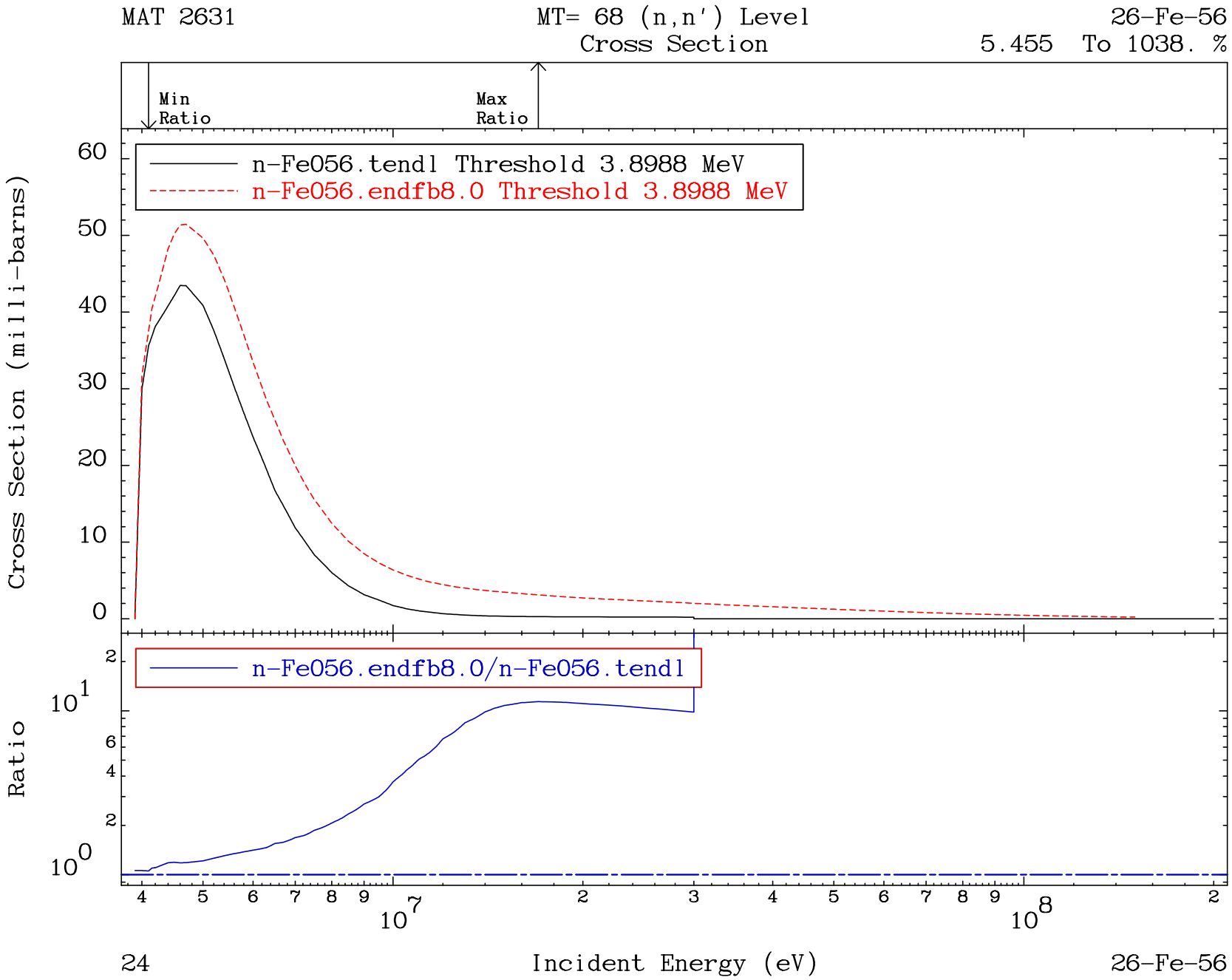

MAT 2631
MT= 63 (n,n') Level
Cross Section
26-Fe-56
-33.92 To 86.06 %
Min Ratio
Max Ratio
n-Fe056.tendl Threshold 3.6707 MeV
n-Fe056.endfb8.0 Threshold 3.6707 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
2.0
1.6
1.2
0.8
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
26-Fe-56

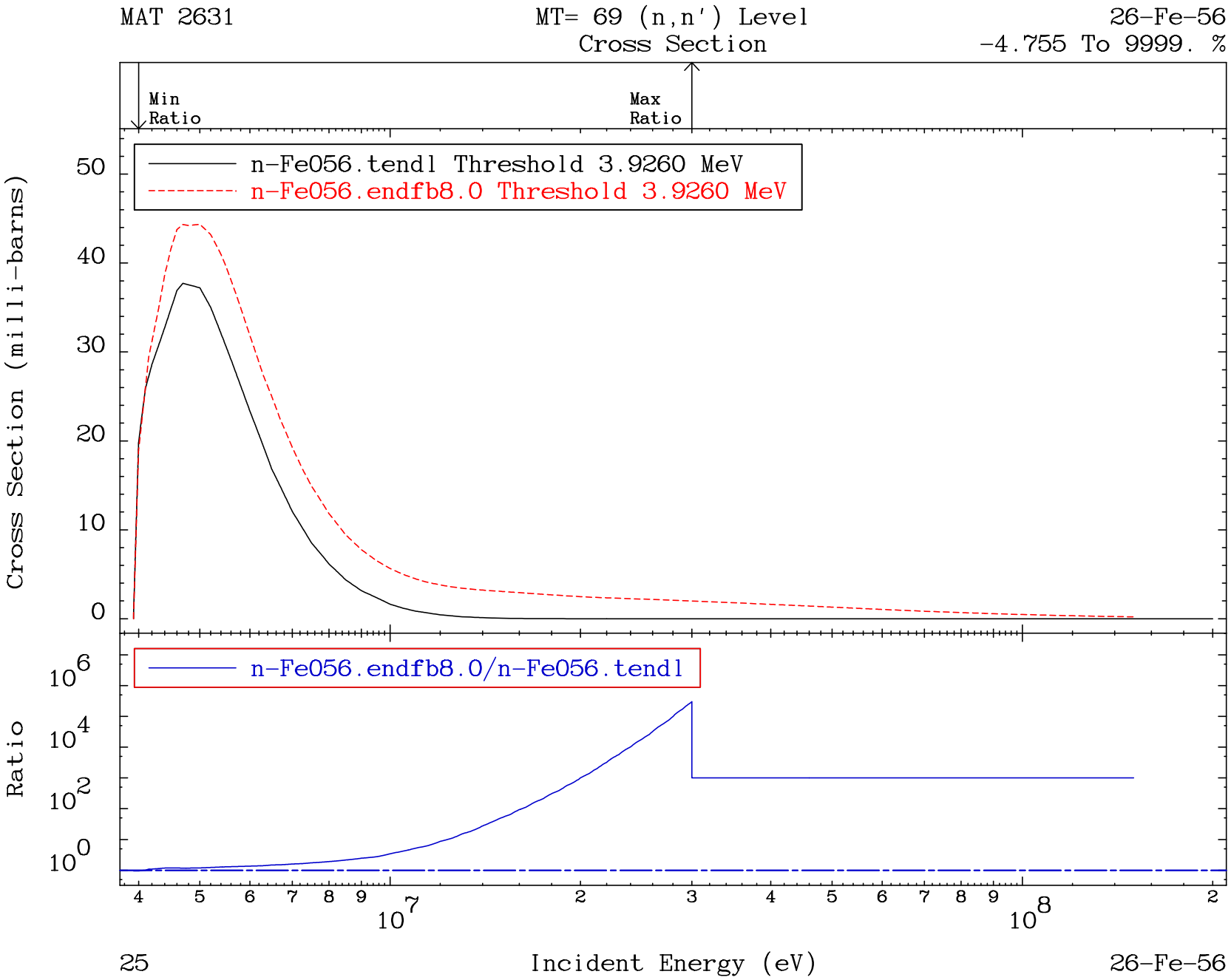

MAT 2631
MT= 64 (n,n') Level
Cross Section
26-Fe-56
-97.35 To -1.232%
Max
Ratio
Min
Ratio
n-Fe056.tendl Threshold 3.6753 MeV
n-Fe056.endfb8.0 Threshold 3.6753 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^0
10^-1
4
4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
20
Incident Energy (eV)
26-Fe-56

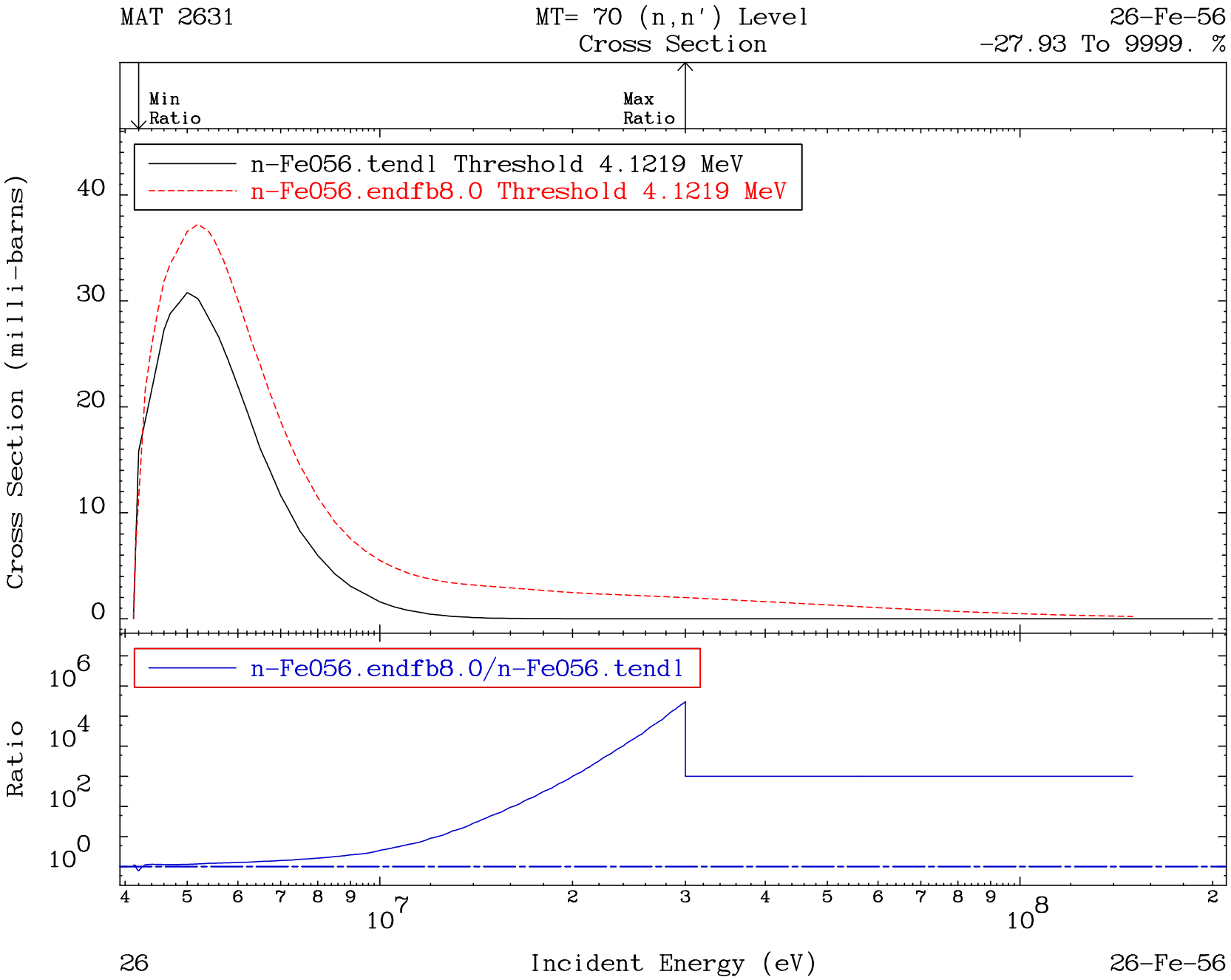

MAT 2631
MT= 65 (n,n') Level
Cross Section
26-Fe-56
2.081 To 474.9 %
Min Ratio
Max Ratio
n-Fe056.tendl Threshold 3.8117 MeV
n-Fe056.endfb8.0 Threshold 3.8117 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
6
4
2
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
21
Incident Energy (eV)
26-Fe-56

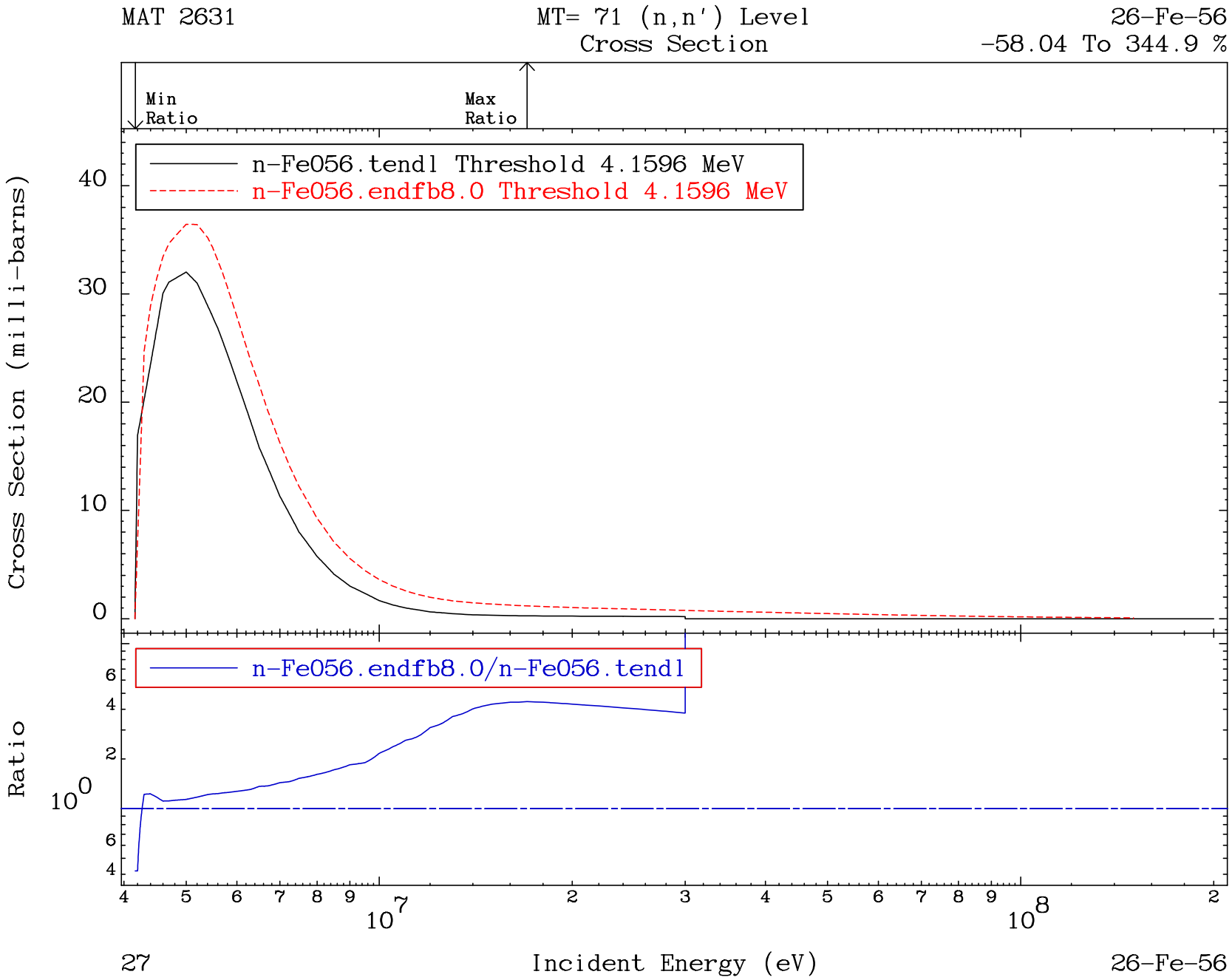

MAT 2631
MT= 66 (n,n') Level
Cross Section
26-Fe-56
-100.0 To 45.86 %
Max Ratio
Min Ratio
n-Fe056.tendl Threshold 3.8233 MeV
n-Fe056.endfb8.0 Threshold 3.8233 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^0
10^-2
10^-4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
26-Fe-56

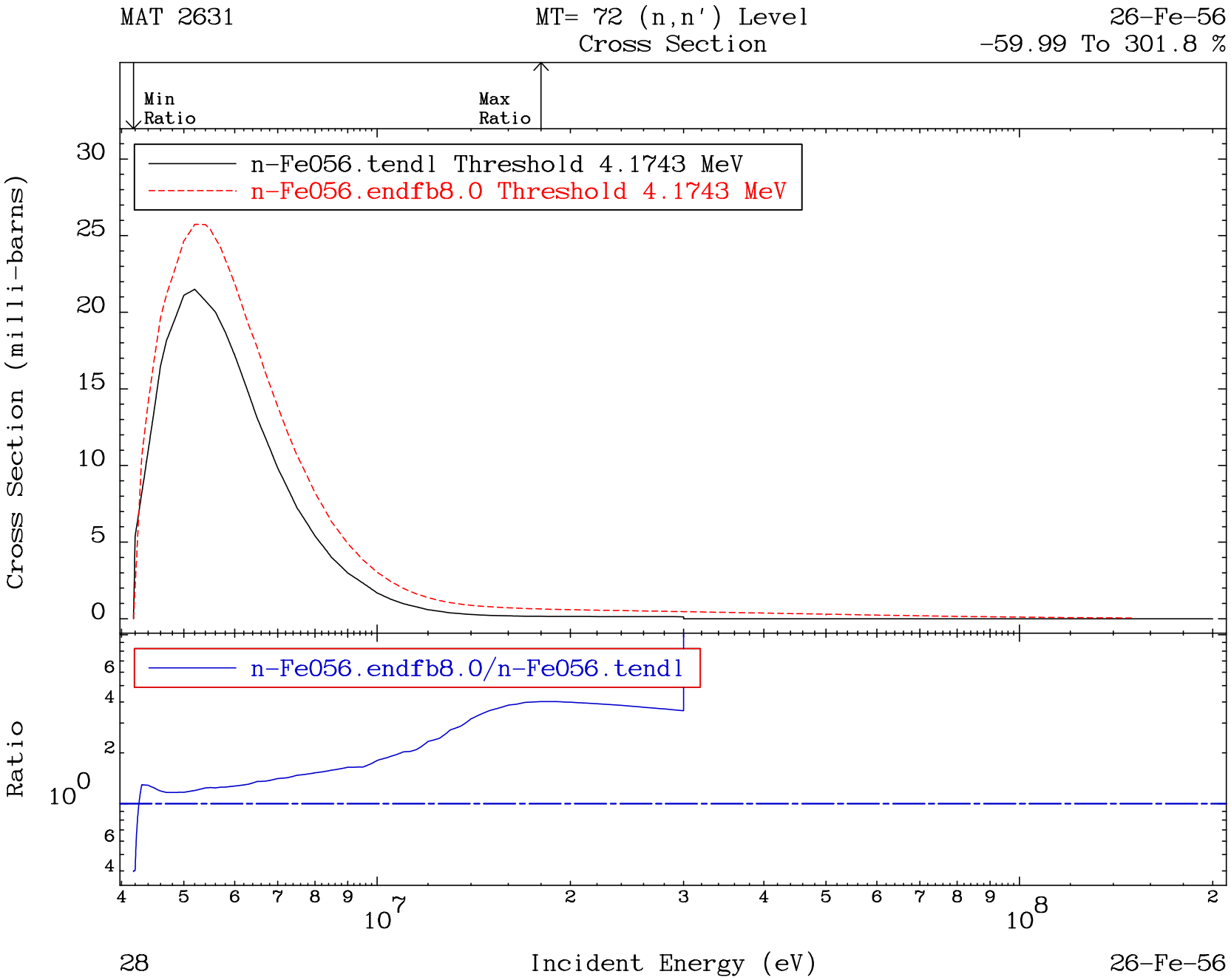

MAT 2631
MT= 67 (n,n') Level
Cross Section
26-Fe-56
-94.92 To -13.60%
Max Ratio
Min Ratio
n-Fe056.tendl Threshold 3.8274 MeV
n-Fe056.endfb8.0 Threshold 3.8274 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^0
10^-1
6
4
6
4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
26-Fe-56

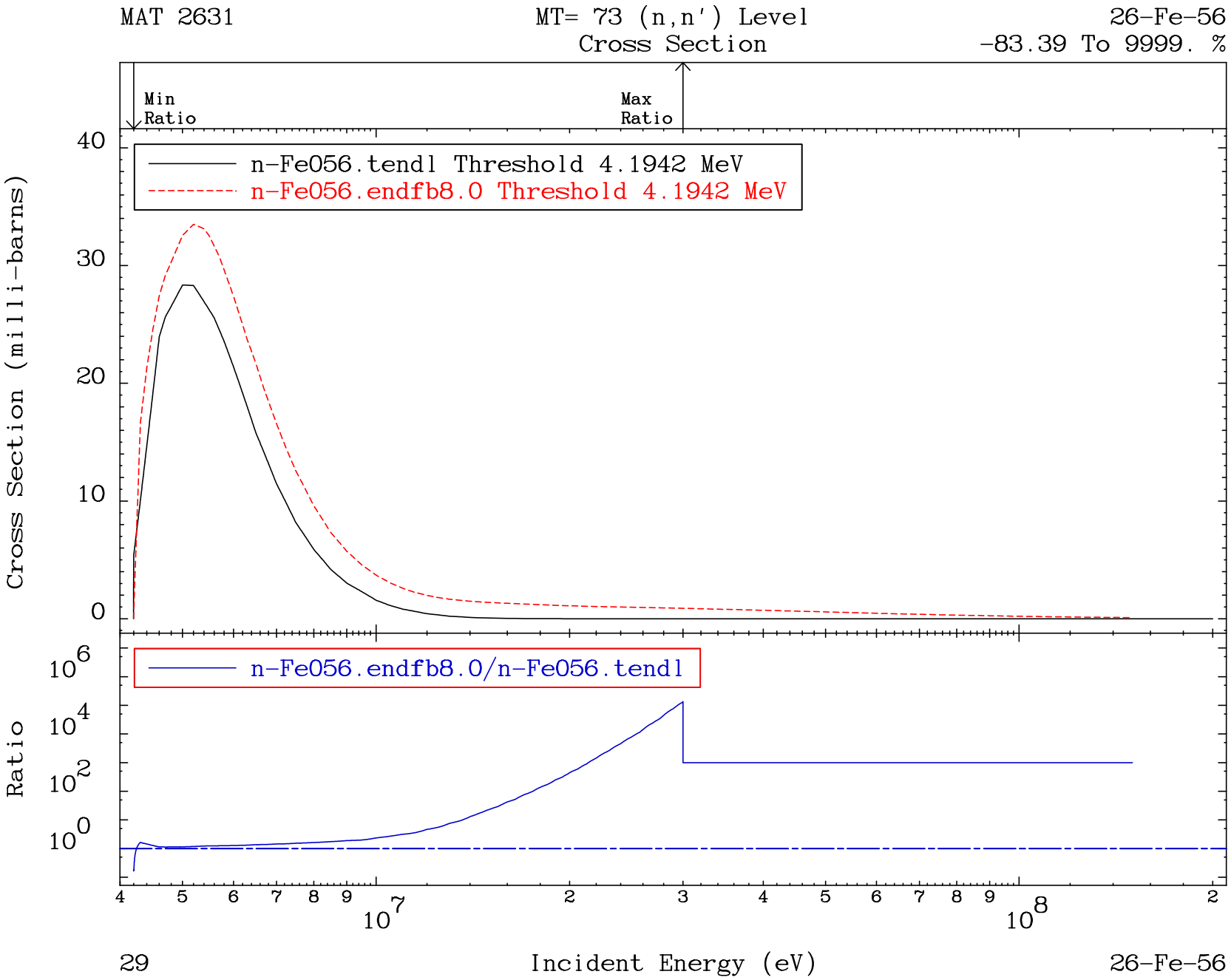

MAT 2631
MT= 68 (n,n') Level
Cross Section
26-Fe-56
5.455 To 1038. %
Min Ratio
Max Ratio
n-Fe056.tendl Threshold 3.8988 MeV
n-Fe056.endfb8.0 Threshold 3.8988 MeV
Cross Section (milli-barns)
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
Incident Energy (eV)
24
26-Fe-56

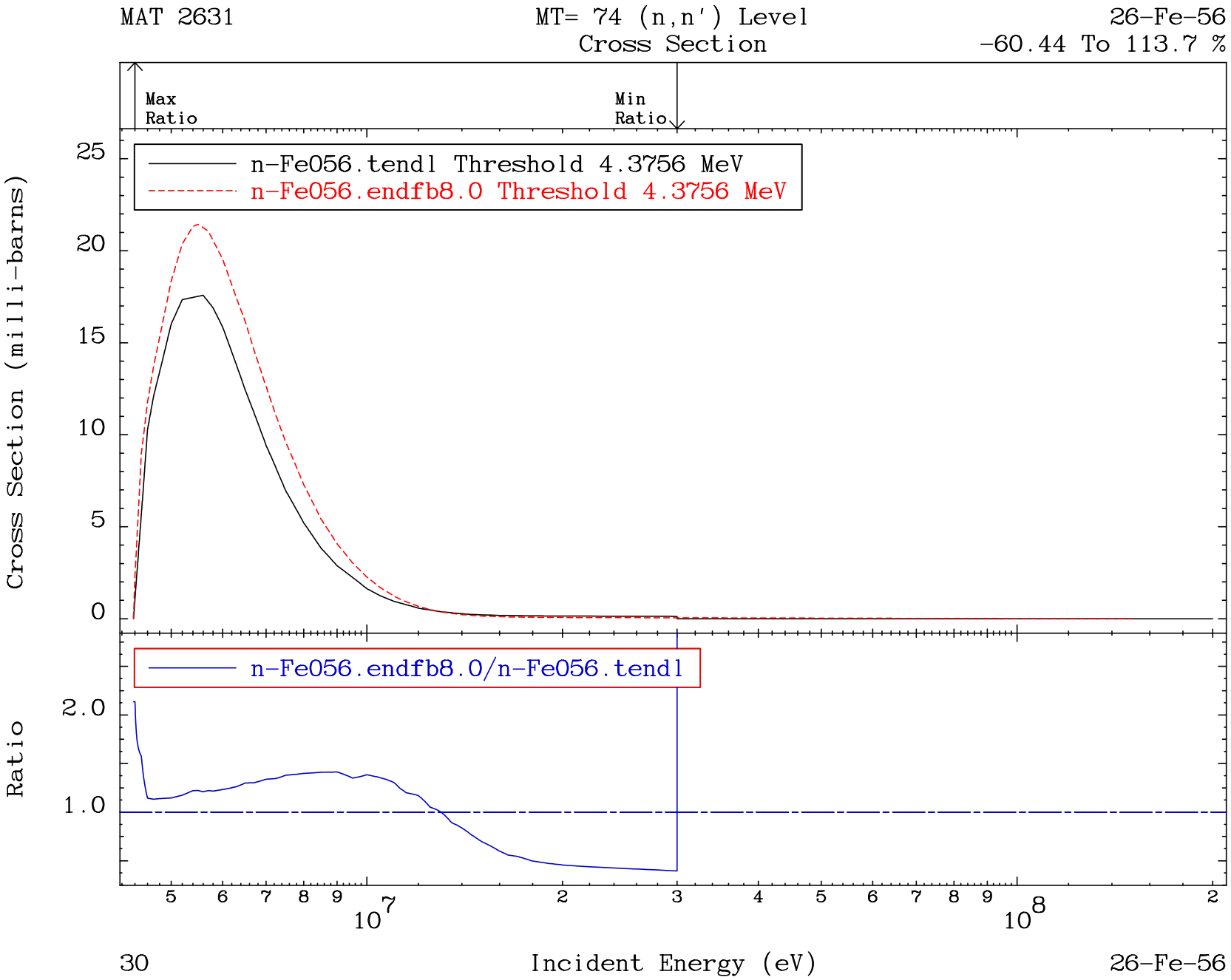

MAT 2631
MT= 69 (n,n') Level
Cross Section
26-Fe-56
-4.755 To 9999. %
Min Ratio
Max Ratio
n-Fe056.tendl Threshold 3.9260 MeV
n-Fe056.endfb8.0 Threshold 3.9260 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^6
10^4
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
25
Incident Energy (eV)
26-Fe-56

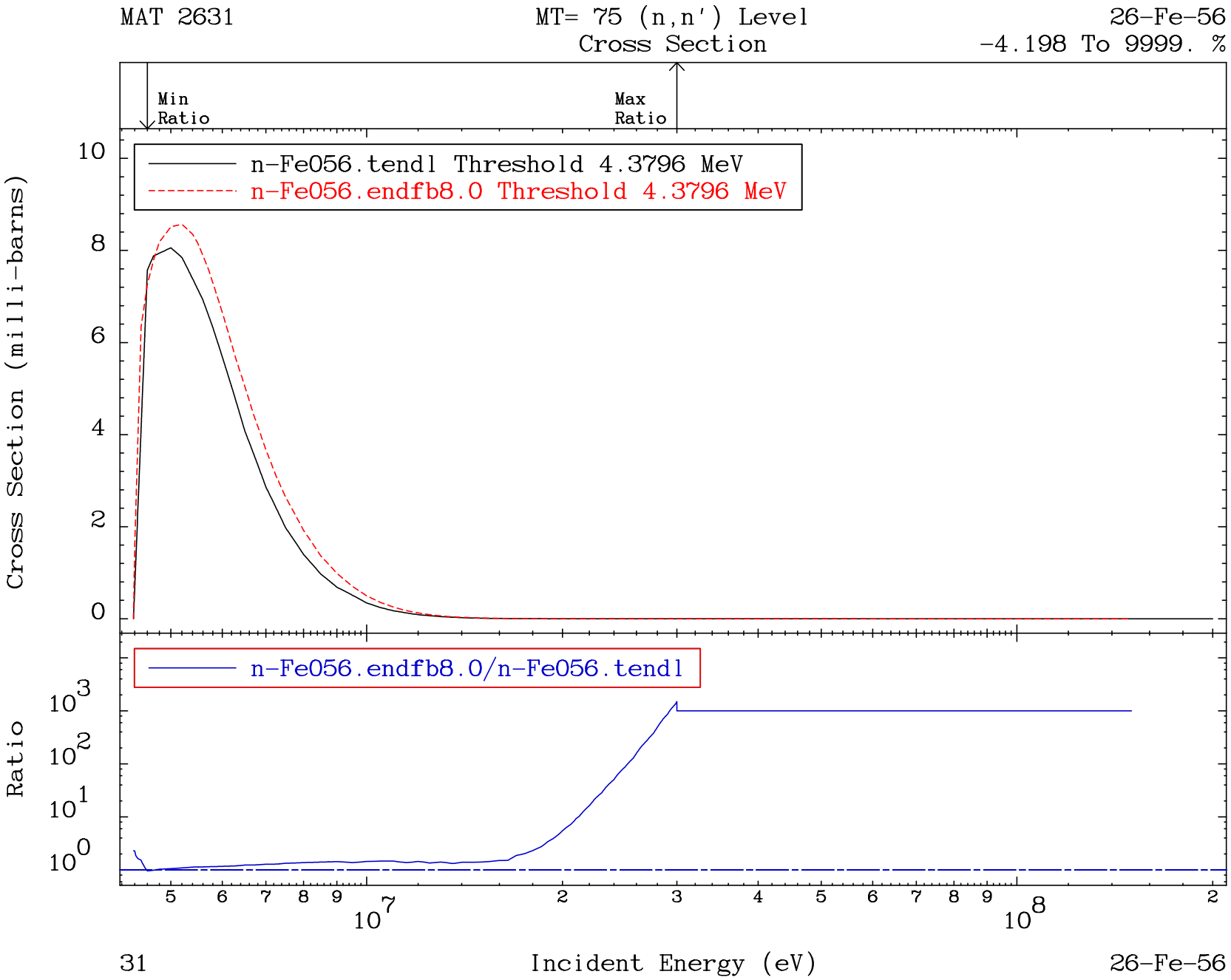

MAT 2631
MT= 70 (n,n') Level
Cross Section
26-Fe-56
-27.93 To 9999. %
Min Ratio
Max Ratio
n-Fe056.tendl Threshold 4.1219 MeV
n-Fe056.endfb8.0 Threshold 4.1219 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^6
10^4
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
26-Fe-56

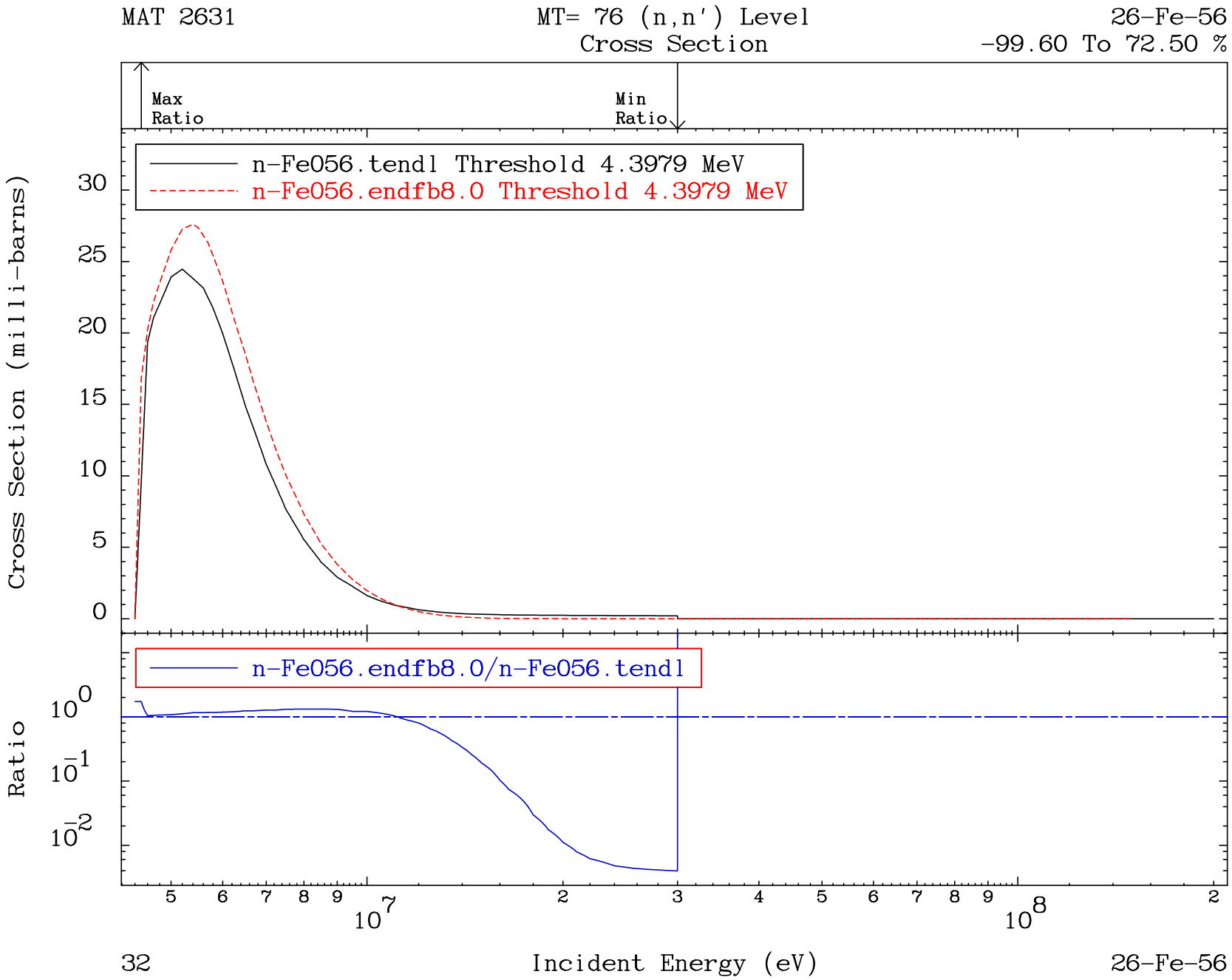

MAT 2631
MT= 71 (n,n') Level
Cross Section
26-Fe-56
-58.04 To 344.9 %
Min Ratio
Max Ratio
n-Fe056.tendl Threshold 4.1596 MeV
n-Fe056.endfb8.0 Threshold 4.1596 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^0
6
4
2
6
4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
26-Fe-56

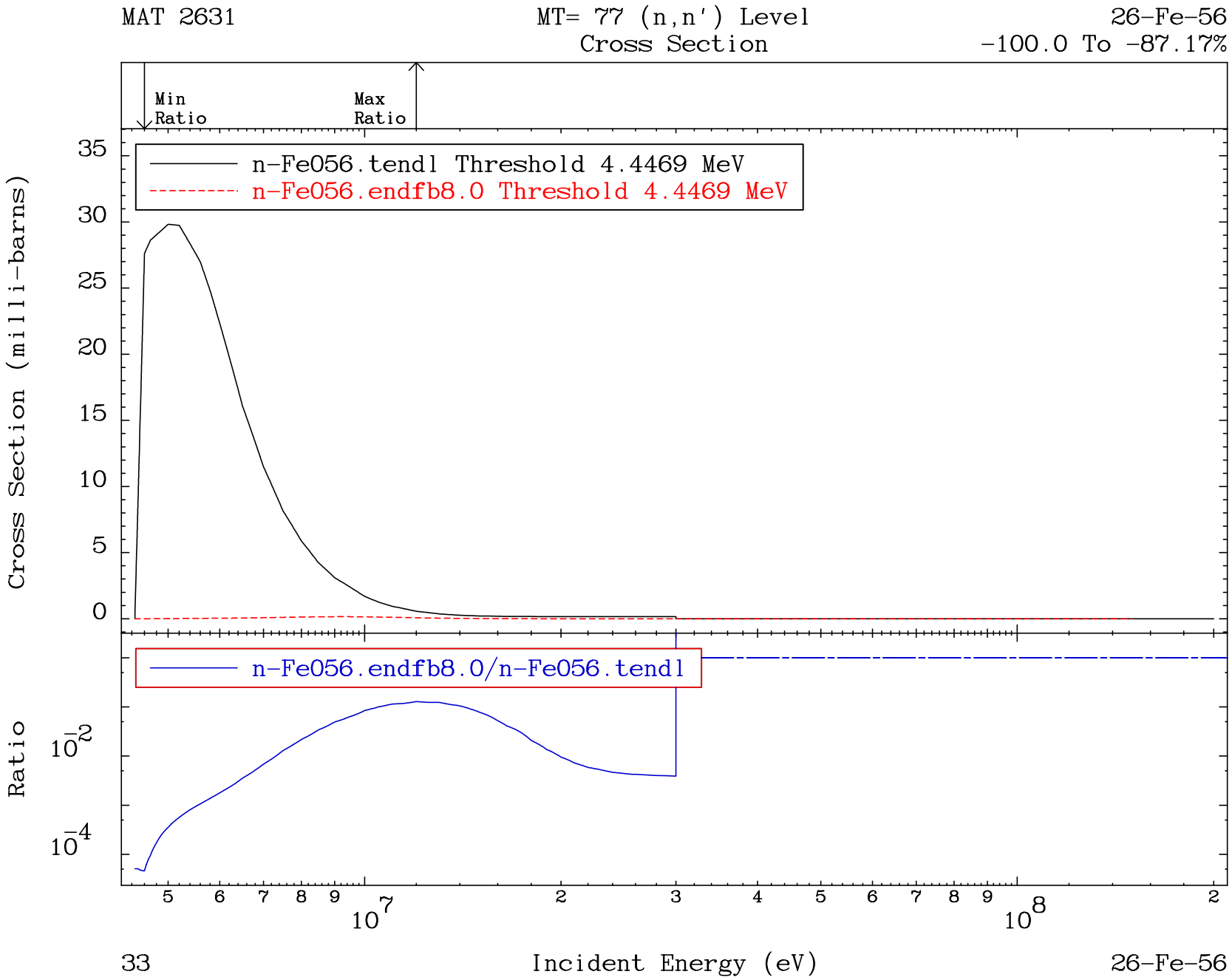

MAT 2631
MT= 72 (n,n') Level
Cross Section
26-Fe-56
-59.99 To 301.8 %
Min
Ratio
Max
Ratio
n-Fe056.tendl Threshold 4.1743 MeV
n-Fe056.endfb8.0 Threshold 4.1743 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
6
4
2
10^0
6
4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
26-Fe-56

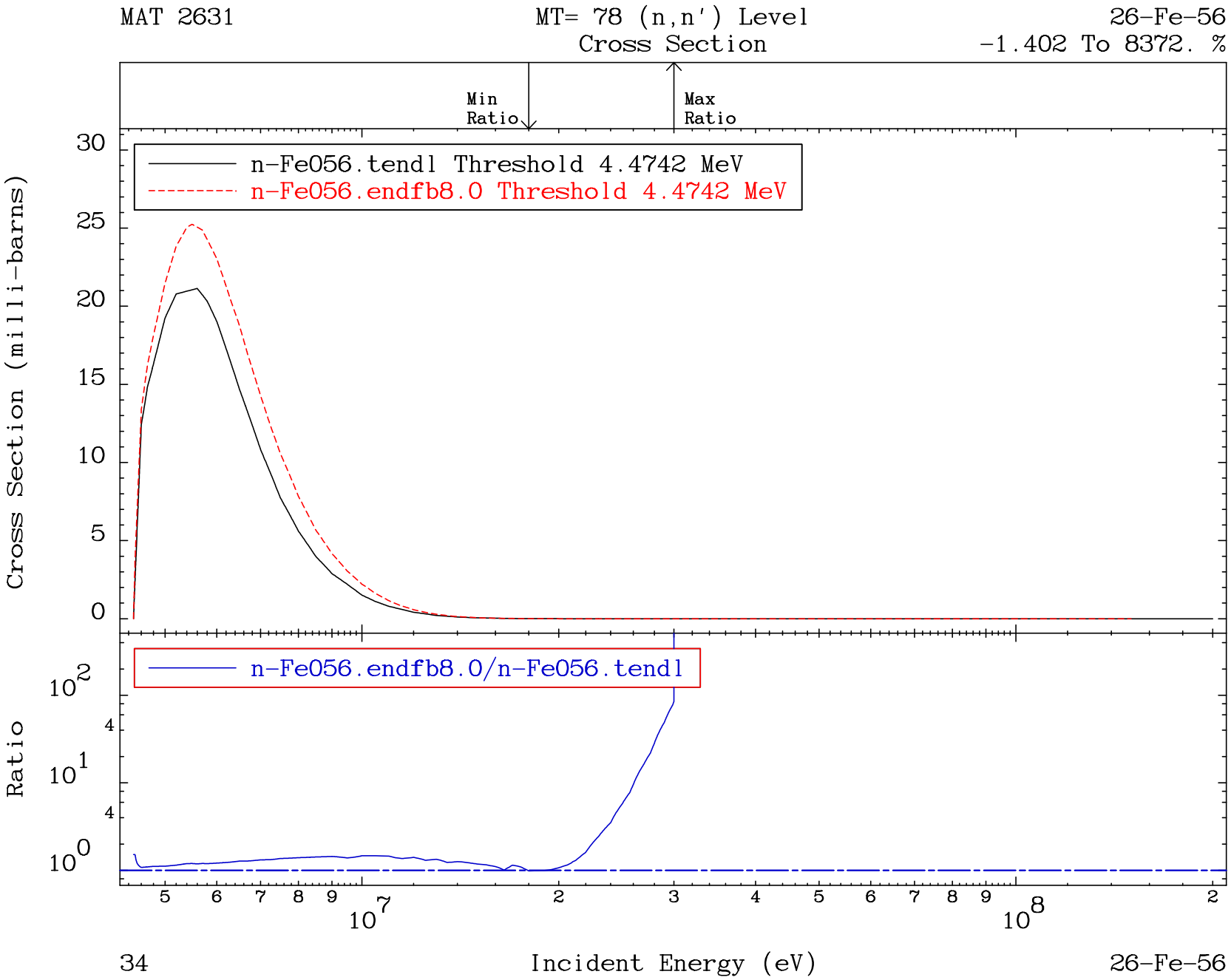

MAT 2631
MT= 73 (n,n') Level
Cross Section
26-Fe-56
-83.39 To 9999. %
Min
Ratio
Max
Ratio
n-Fe056.tendl Threshold 4.1942 MeV
n-Fe056.endfb8.0 Threshold 4.1942 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^6
10^4
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
26-Fe-56

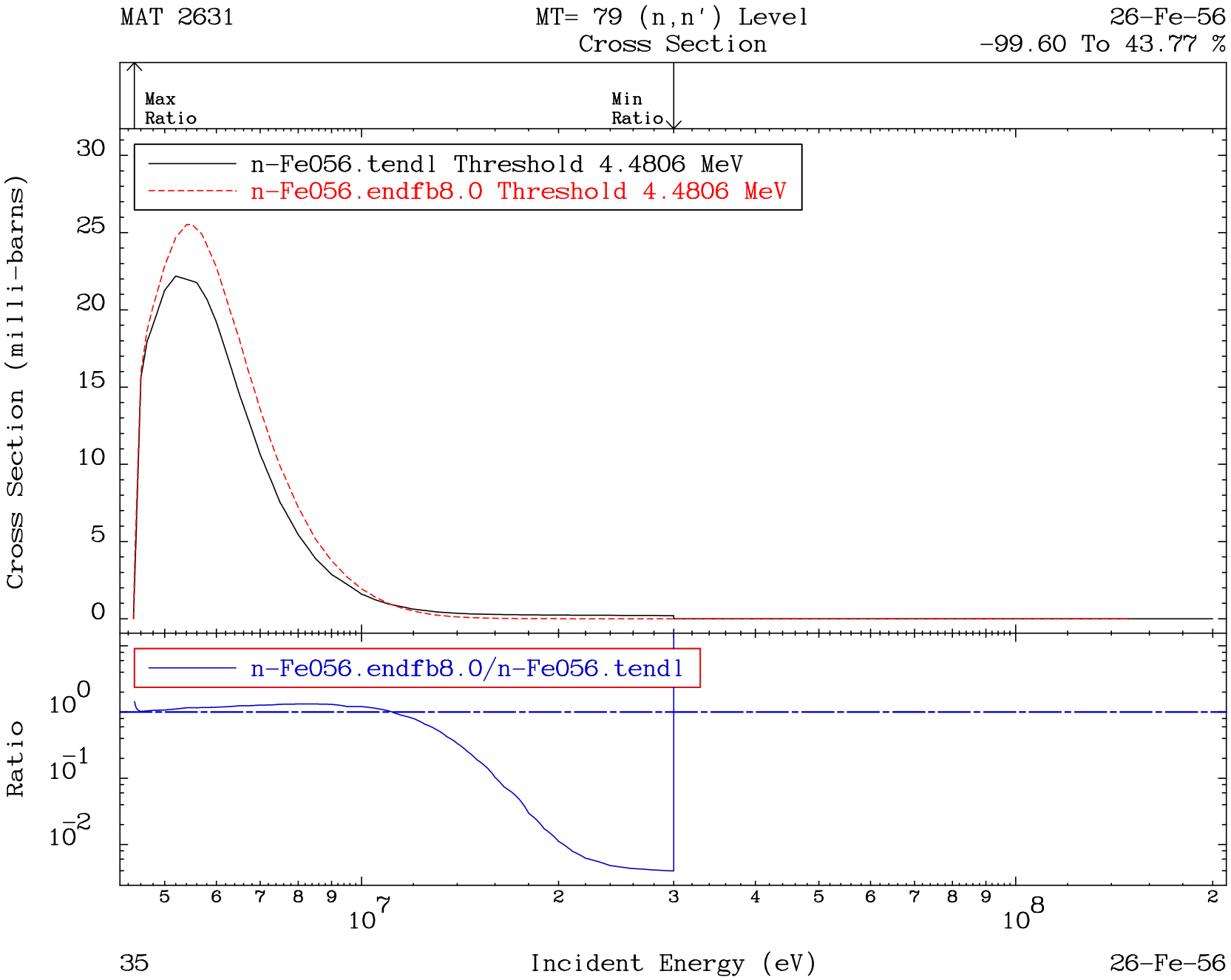

MAT 2631
MT= 74 (n,n') Level
Cross Section
26-Fe-56
-60.44 To 113.7 %
Max Ratio
Min Ratio
n-Fe056.tendl Threshold 4.3756 MeV
n-Fe056.endfb8.0 Threshold 4.3756 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
2.0
1.0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
26-Fe-56

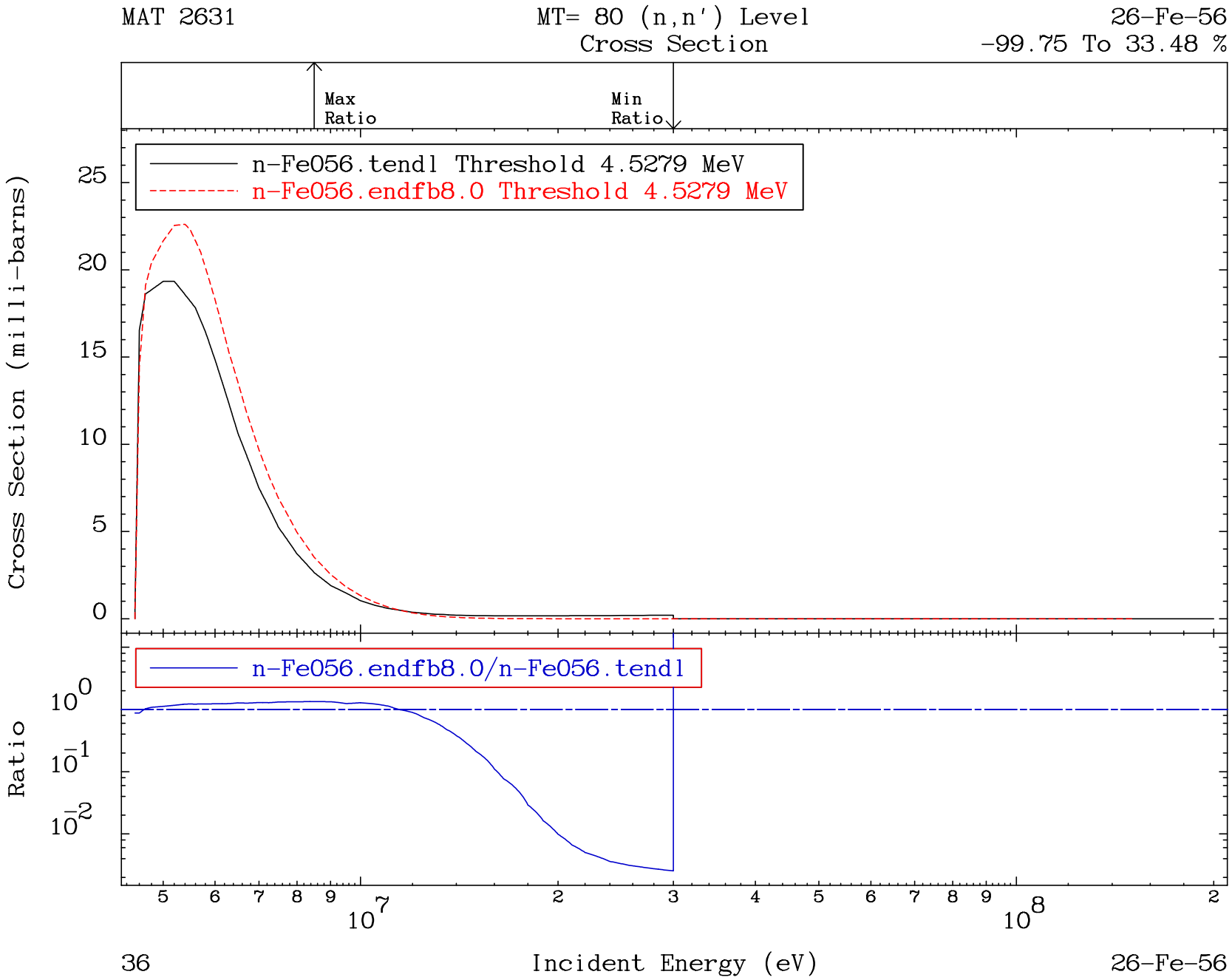

MAT 2631
MT= 75 (n,n') Level
Cross Section
26-Fe-56
-4.198 To 9999. %
Min Ratio
Max Ratio
n-Fe056.tendl Threshold 4.3796 MeV
n-Fe056.endfb8.0 Threshold 4.3796 MeV
Cross Section (milli-barns)
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
Incident Energy (eV)
31
26-Fe-56

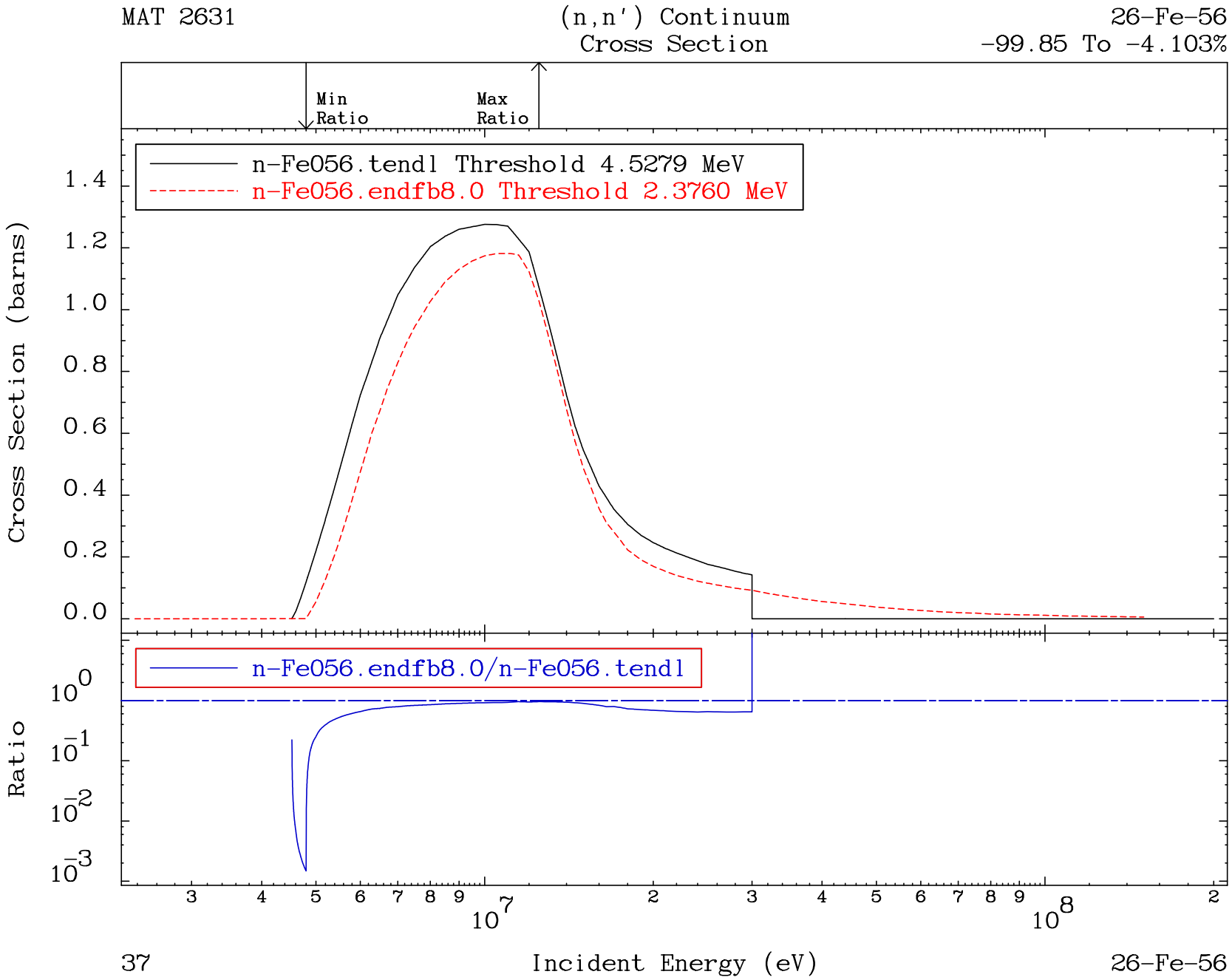

MAT 2631
MT= 76 (n,n') Level
Cross Section
26-Fe-56
-99.60 To 72.50 %
Max Ratio
Min Ratio
n-Fe056.tendl Threshold 4.3979 MeV
n-Fe056.endfb8.0 Threshold 4.3979 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^0
10^-1
10^-2
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
26-Fe-56

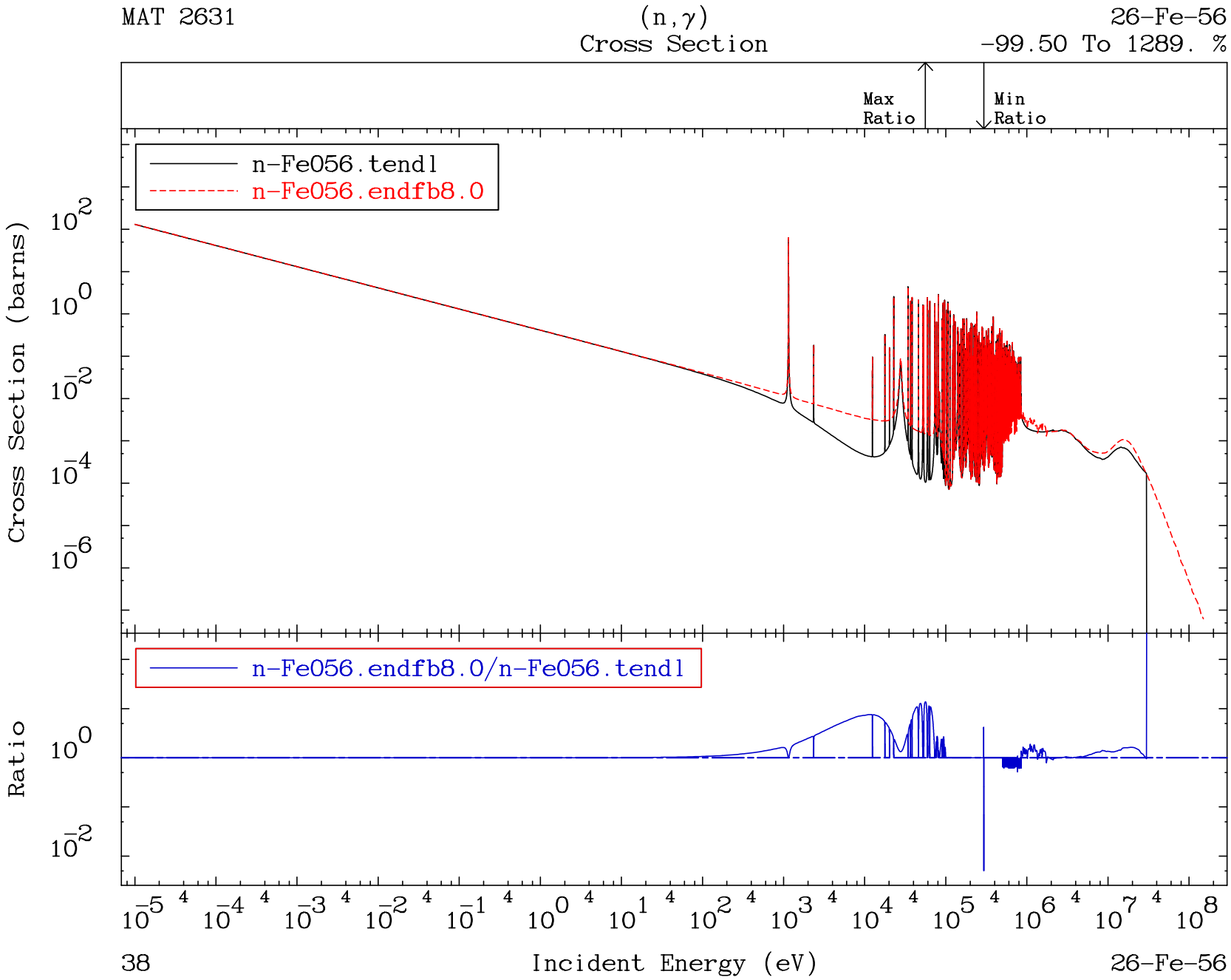

MAT 2631
MT= 77 (n,n') Level
Cross Section
26-Fe-56
-100.0 To -87.17%
Min Ratio
Max Ratio
n-Fe056.tendl Threshold 4.4469 MeV
n-Fe056.endfb8.0 Threshold 4.4469 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^-2
10^-4
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
26-Fe-56

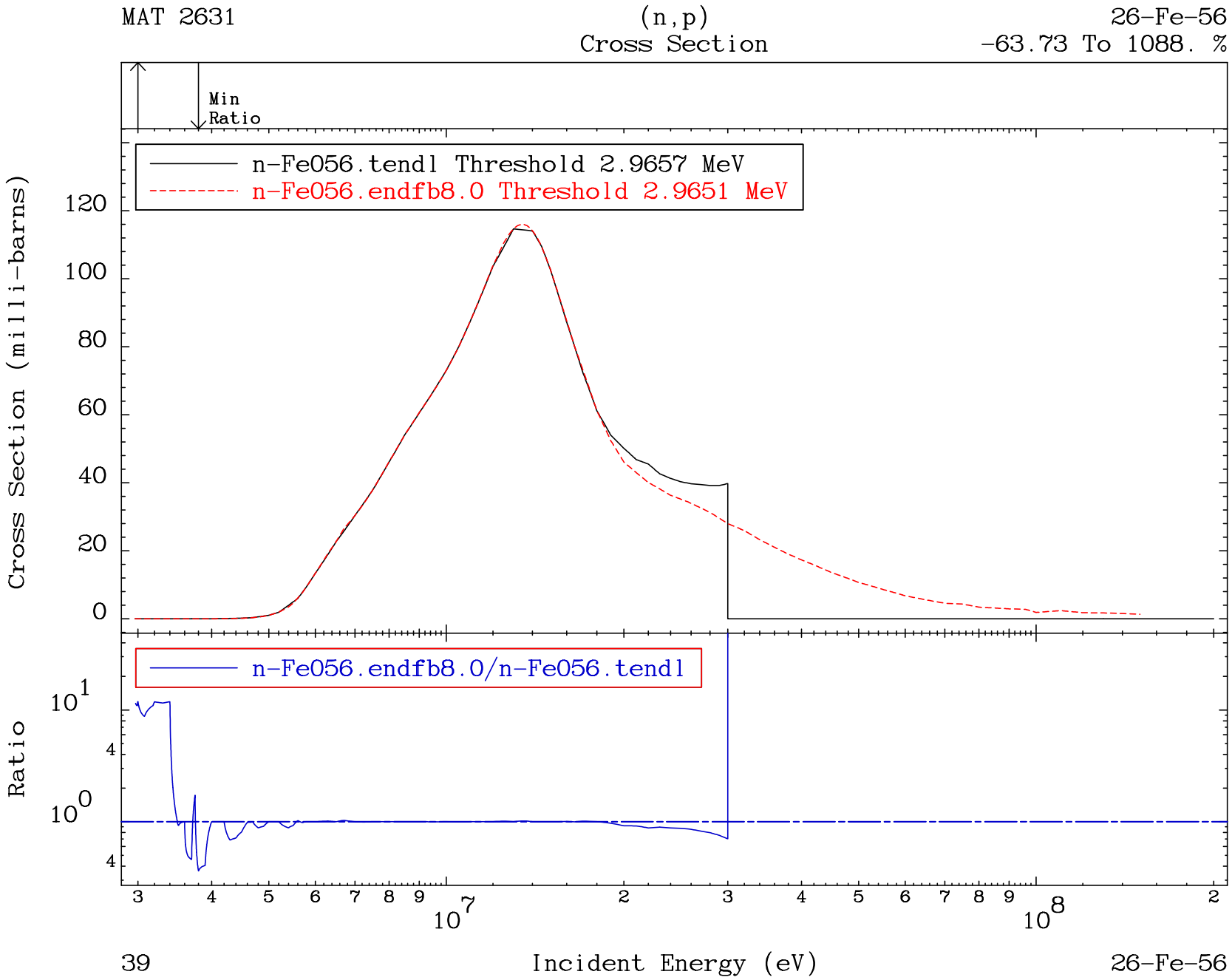

MAT 2631
MT= 78 (n,n') Level
Cross Section
26-Fe-56
-1.402 To 8372. %
Min
Ratio
Max
Ratio
n-Fe056.tendl Threshold 4.4742 MeV
n-Fe056.endfb8.0 Threshold 4.4742 MeV
Cross Section (milli-barns)
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
Incident Energy (eV)
34
26-Fe-56

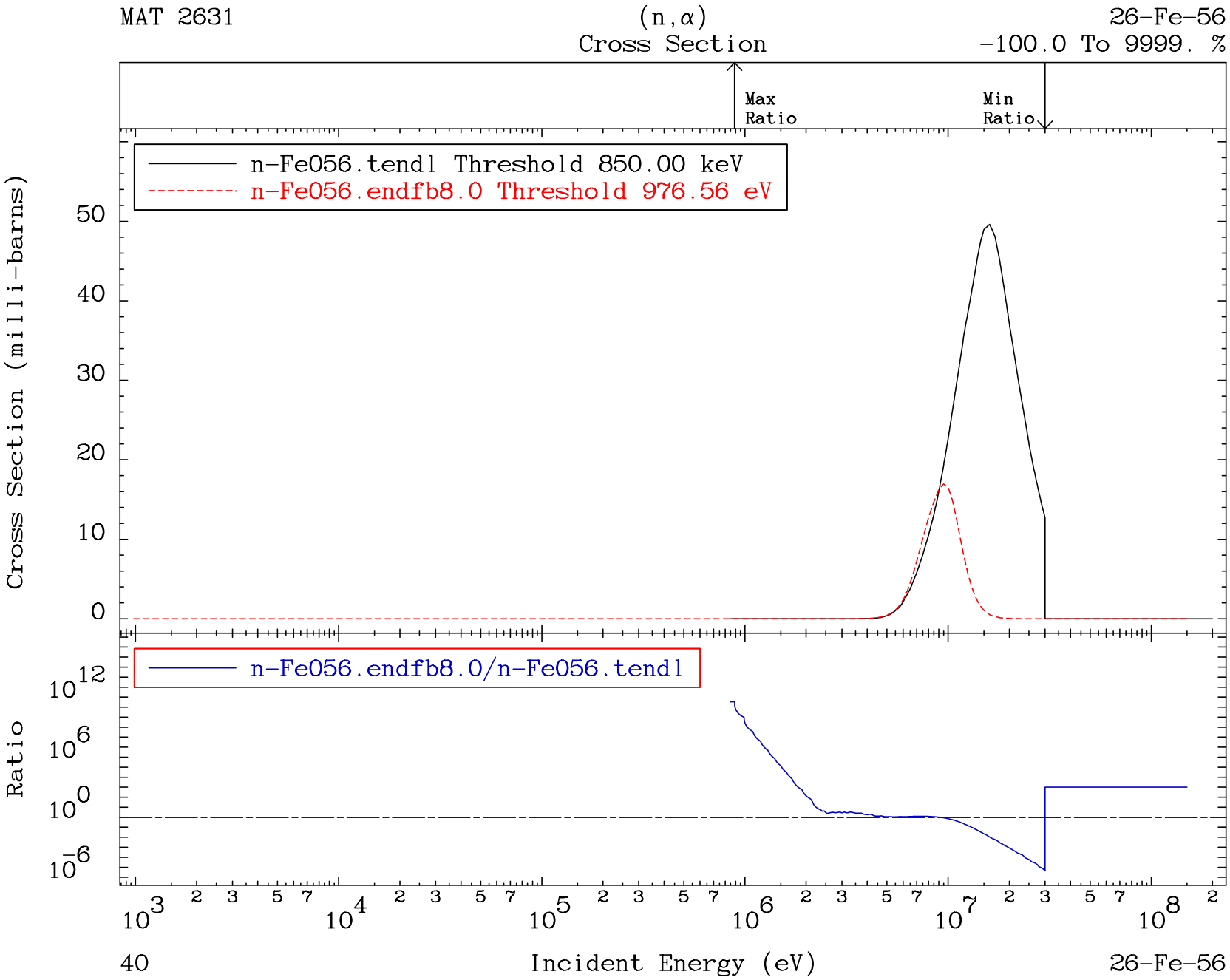

MAT 2631
MT= 79 (n,n') Level
Cross Section
26-Fe-56
-99.60 To 43.77 %
Max Ratio
Min Ratio
n-Fe056.tendl Threshold 4.4806 MeV
n-Fe056.endfb8.0 Threshold 4.4806 MeV
Cross Section (milli-barns)
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
Incident Energy (eV)
35
26-Fe-56

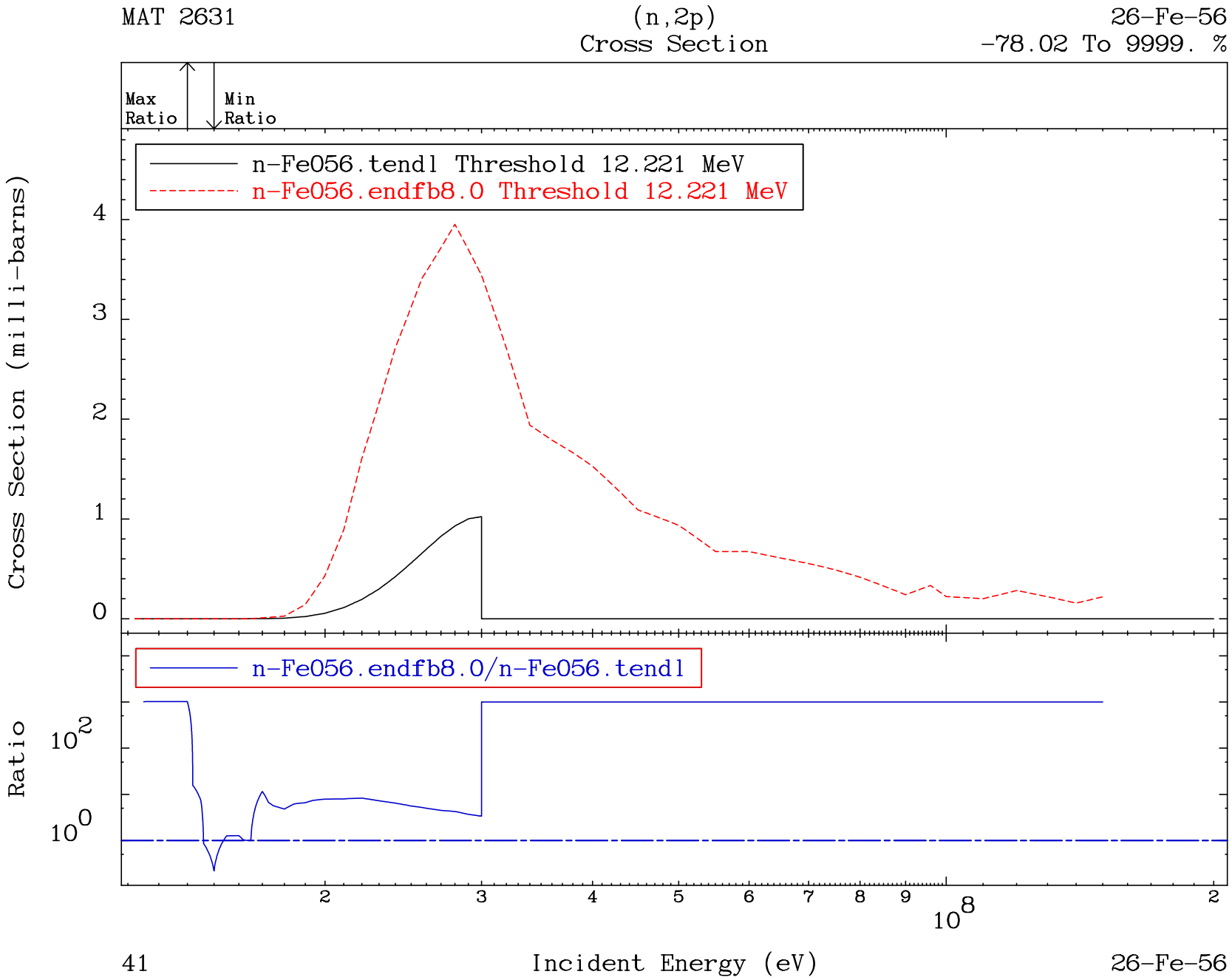

MAT 2631
MT= 80 (n,n') Level
Cross Section
26-Fe-56
-99.75 To 33.48 %
Max Ratio
Min Ratio
n-Fe056.tendl Threshold 4.5279 MeV
n-Fe056.endfb8.0 Threshold 4.5279 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^0
10^-1
10^-2
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
26-Fe-56

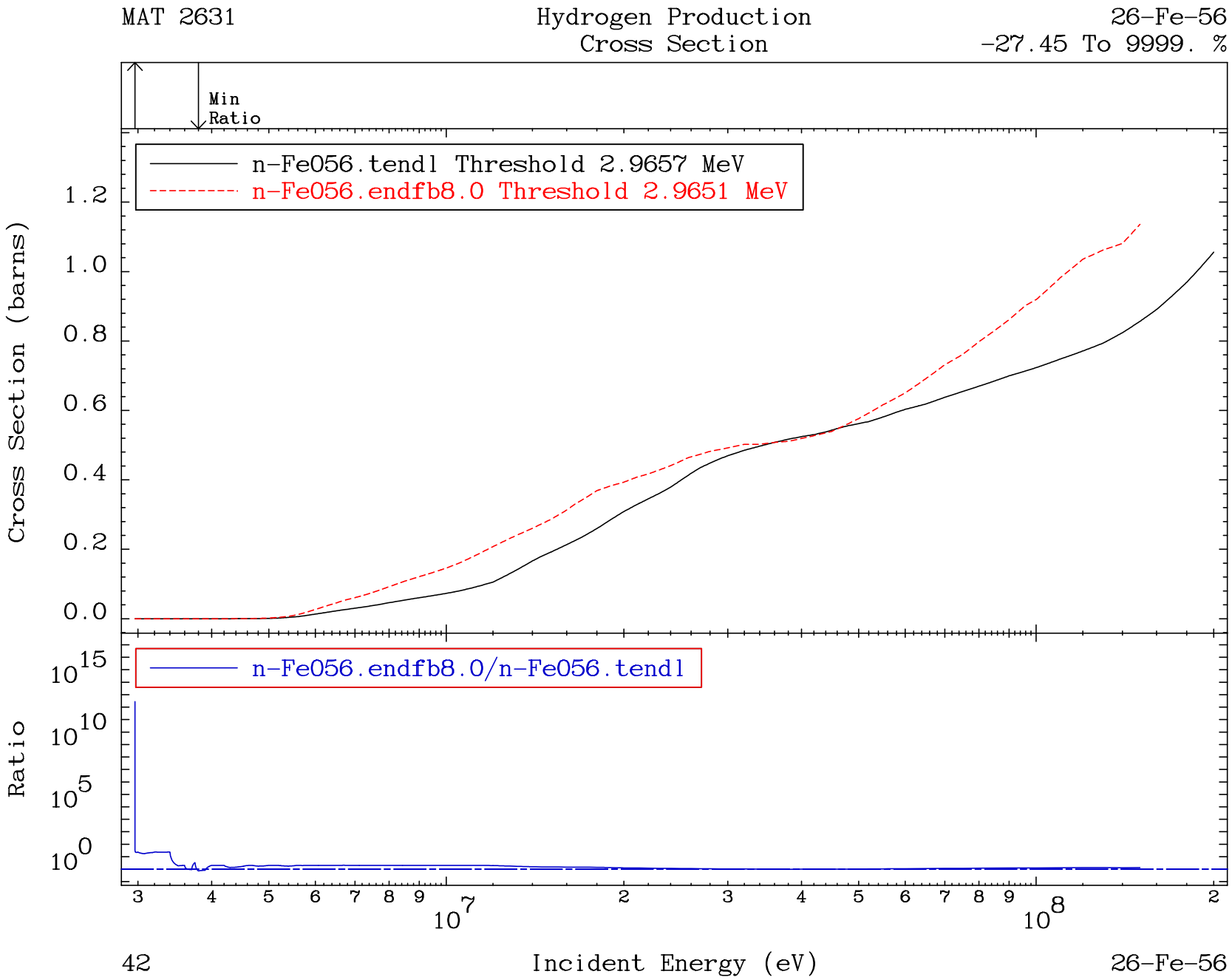

MAT 2631
(n,n') Continuum
Cross Section
26-Fe-56
-99.85 To -4.103%
Min Ratio
Max Ratio
n-Fe056.tendl Threshold 4.5279 MeV
n-Fe056.endfb8.0 Threshold 2.3760 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^0
10^-1
10^-2
10^-3
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
26-Fe-56

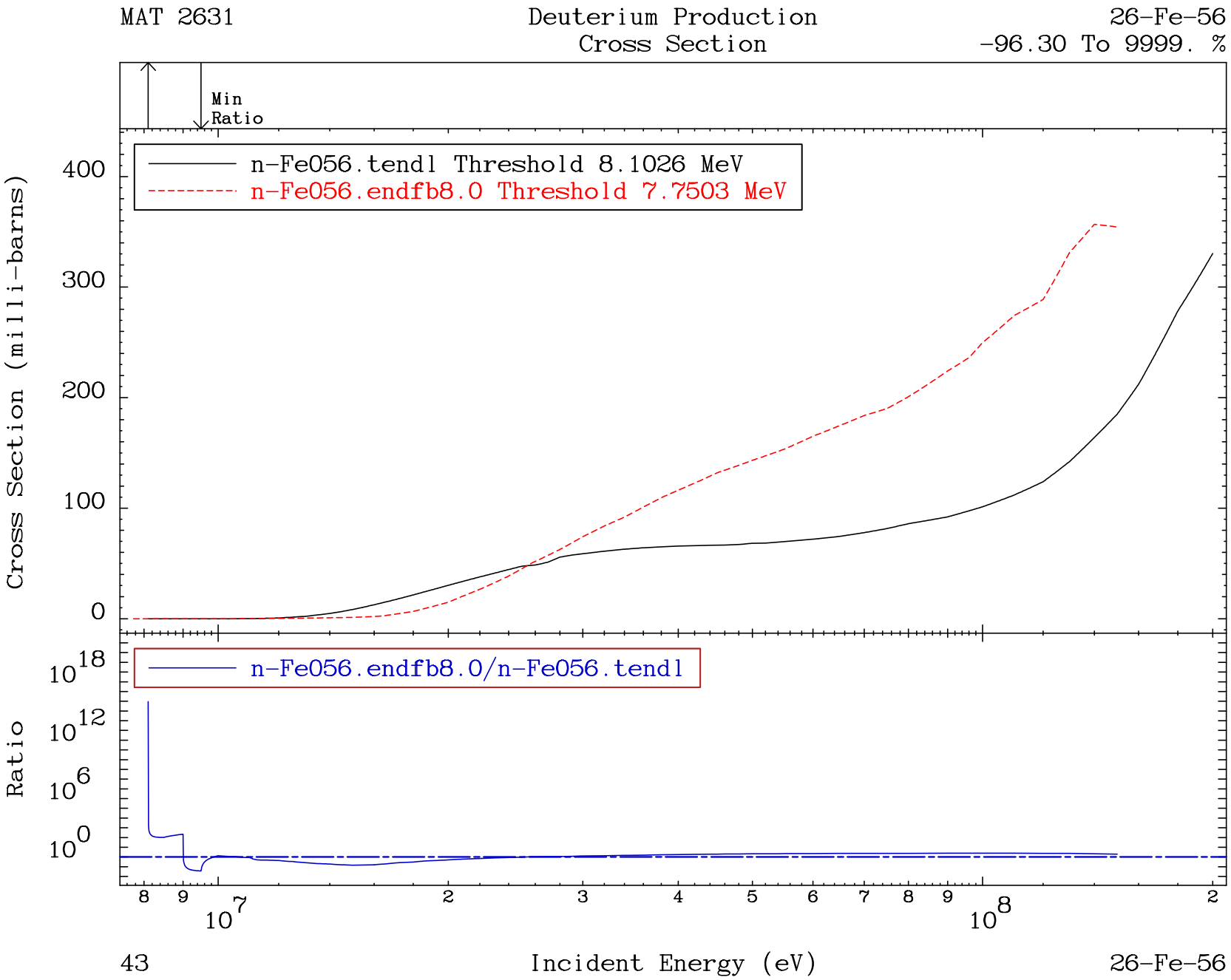

MAT 2631
(n,γ)
Cross Section
26-Fe-56
-99.50 To 1289. %
Max Ratio
Min Ratio
n-Fe056.tendl
n-Fe056.endfb8.0
Cross Section (barns)
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
Incident Energy (eV)
38
26-Fe-56

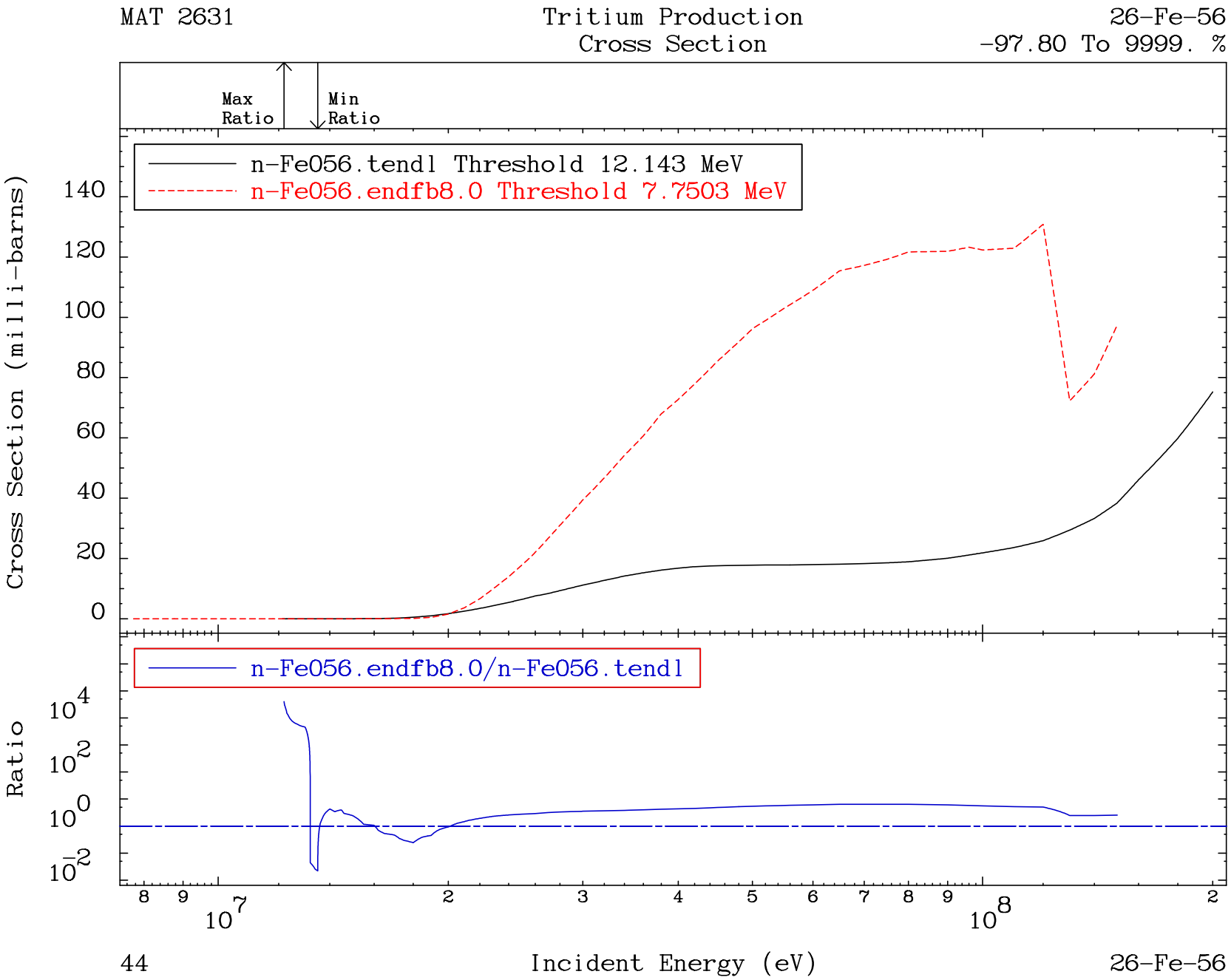

MAT 2631
(n,p)
Cross Section
26-Fe-56
-63.73 To 1088. %
Min
Ratio
n-Fe056.tendl Threshold 2.9657 MeV
n-Fe056.endfb8.0 Threshold 2.9651 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^1
10^0
4
4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
26-Fe-56

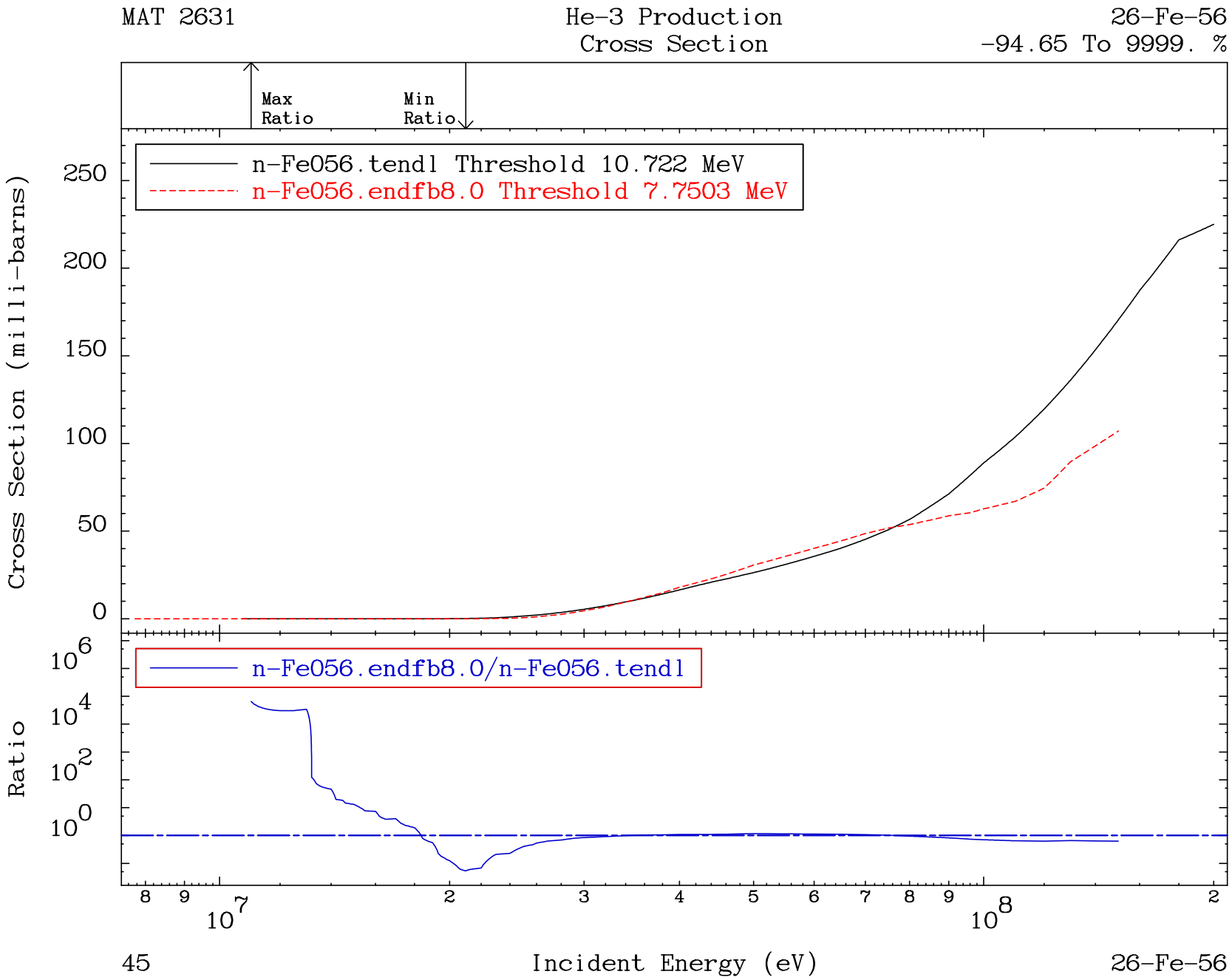

MAT 2631
(n,α)
Cross Section
26-Fe-56
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Fe056.tendl Threshold 850.00 keV
n-Fe056.endfb8.0 Threshold 976.56 eV
Cross Section (milli-barns)
0
10
20
30
40
50
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^12
10^6
10^0
10^-6
10^3
10^4
10^5
10^6
10^7
10^8
Incident Energy (eV)
40
26-Fe-56

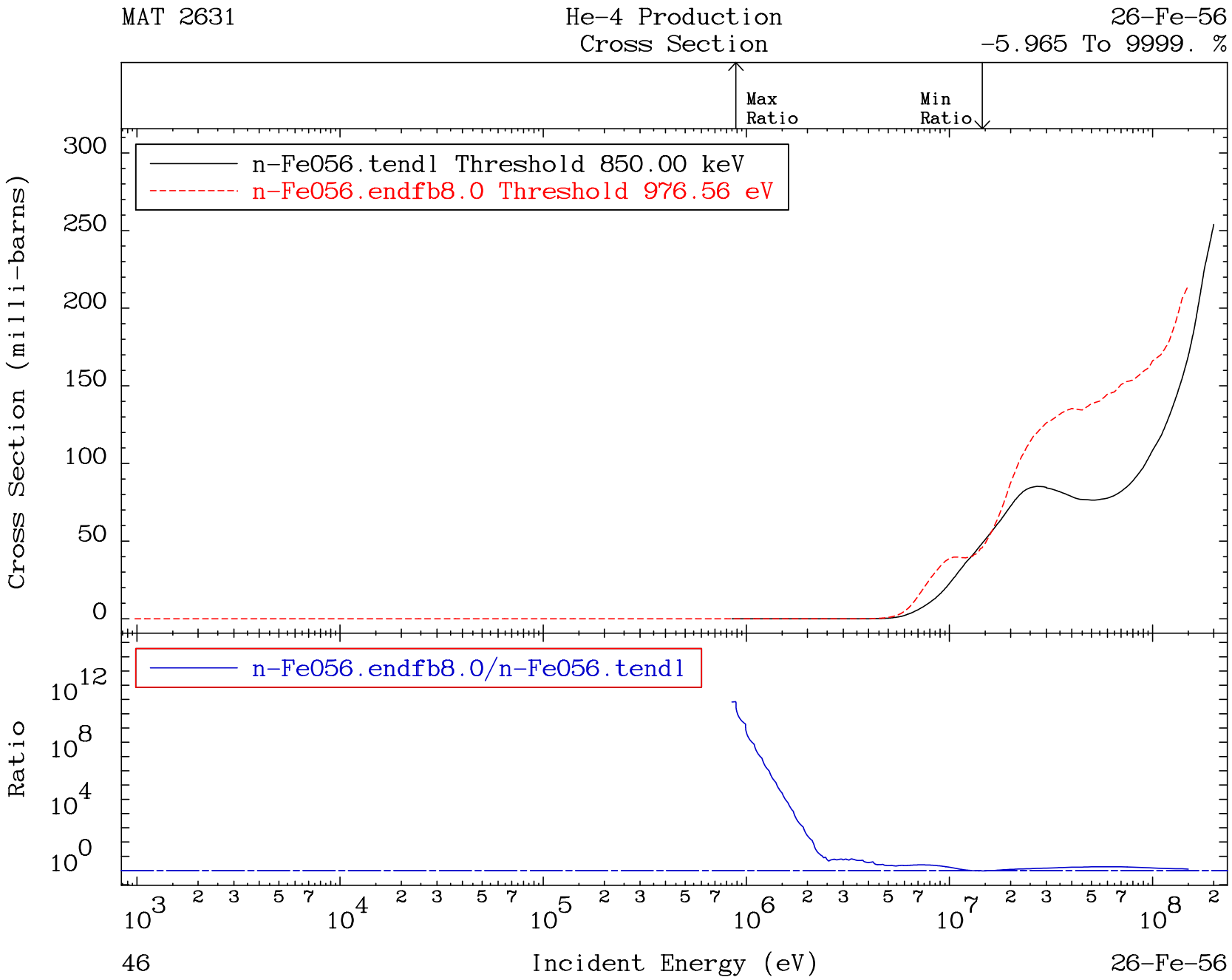

MAT 2631
(n,2p)
Cross Section
26-Fe-56
-78.02 To 9999. %
Max Ratio
Min Ratio
n-Fe056.tendl Threshold 12.221 MeV
n-Fe056.endfb8.0 Threshold 12.221 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
41
Incident Energy (eV)
26-Fe-56

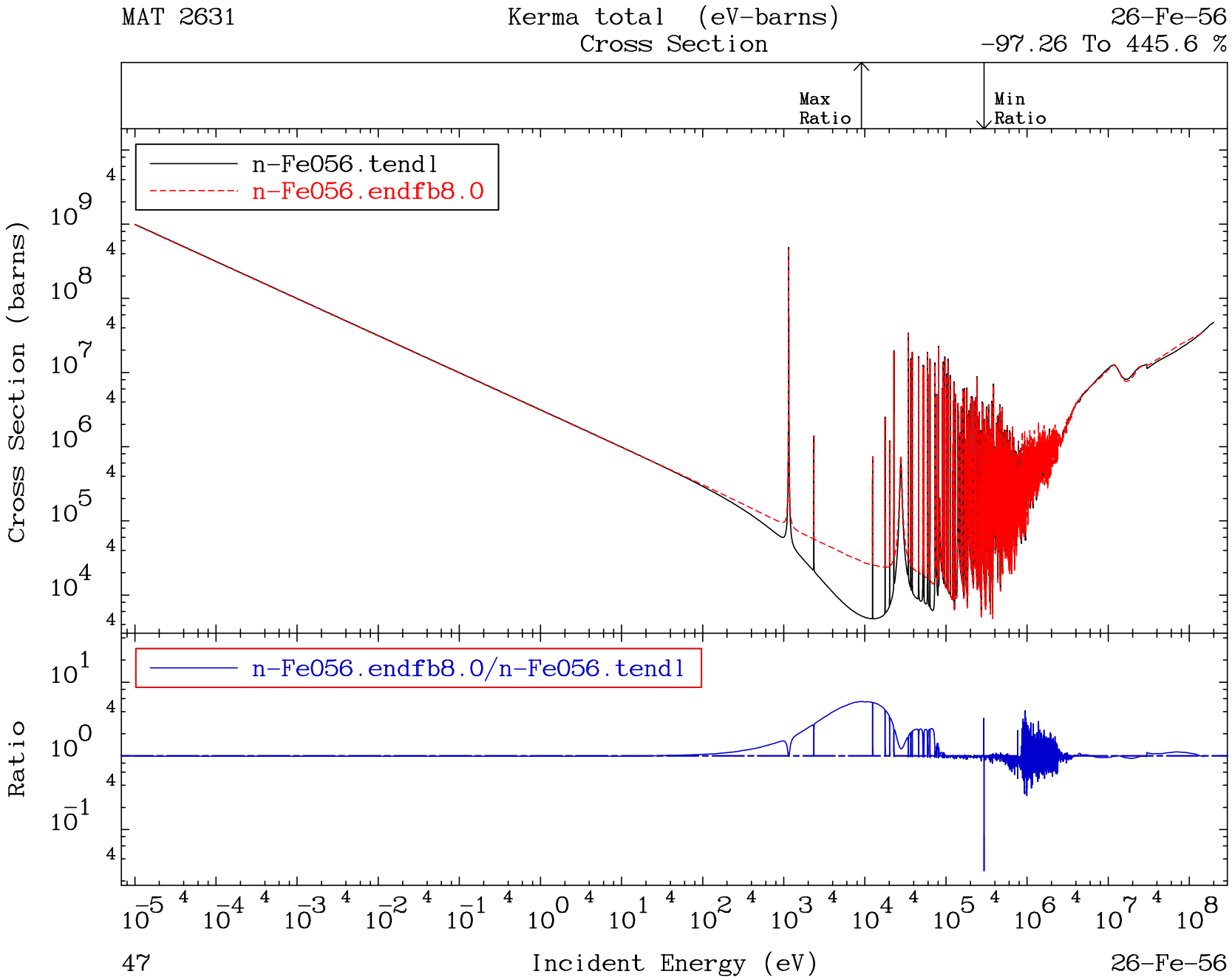

MAT 2631
Hydrogen Production
Cross Section
26-Fe-56
-27.45 To 9999. %
Min
Ratio
n-Fe056.tendl Threshold 2.9657 MeV
n-Fe056.endfb8.0 Threshold 2.9651 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^15
10^10
10^5
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
26-Fe-56

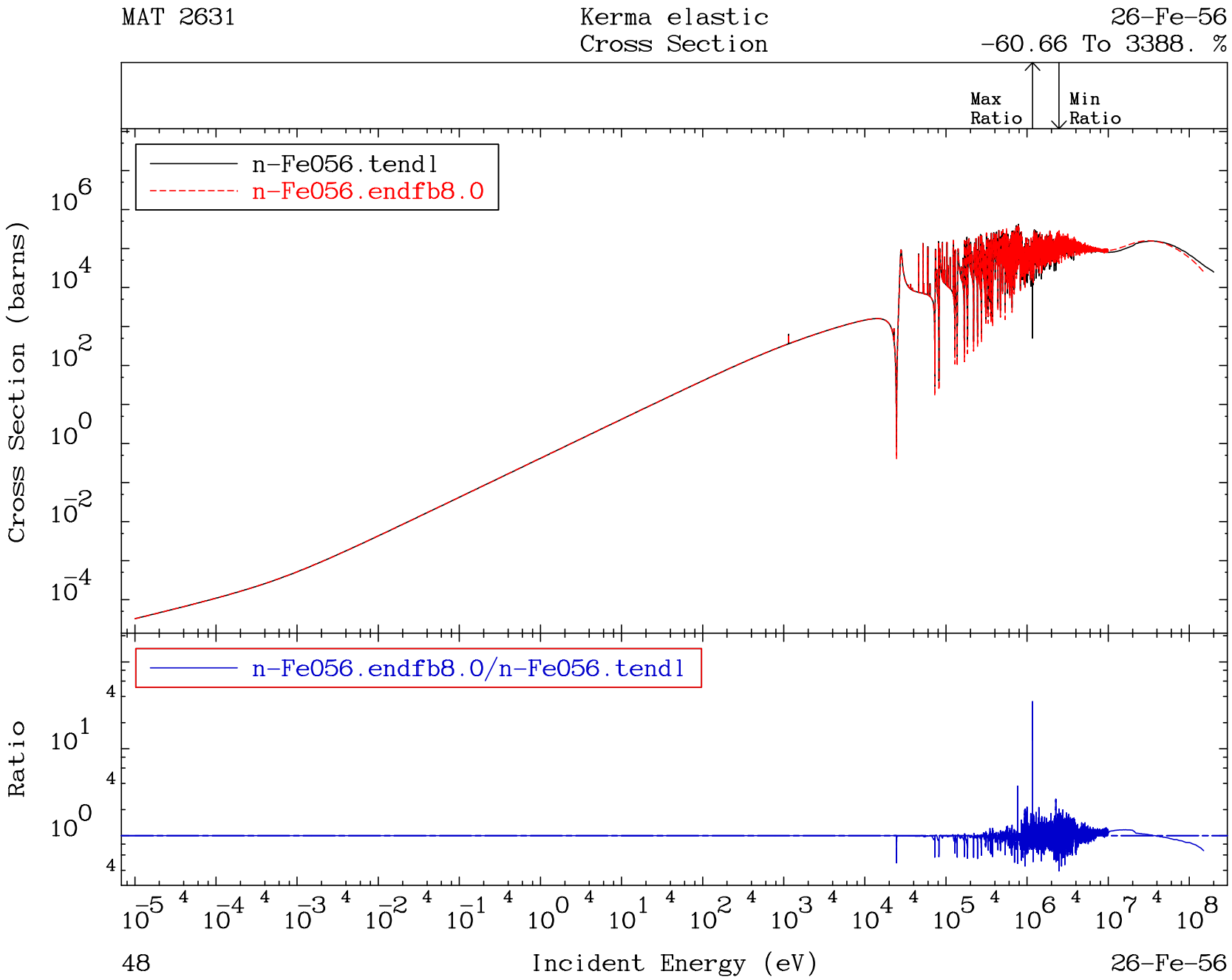

MAT 2631
Deuterium Production
Cross Section
26-Fe-56
-96.30 To 9999. %
Min
Ratio
n-Fe056.tendl Threshold 8.1026 MeV
n-Fe056.endfb8.0 Threshold 7.7503 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^18
10^12
10^6
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
43
Incident Energy (eV)
26-Fe-56

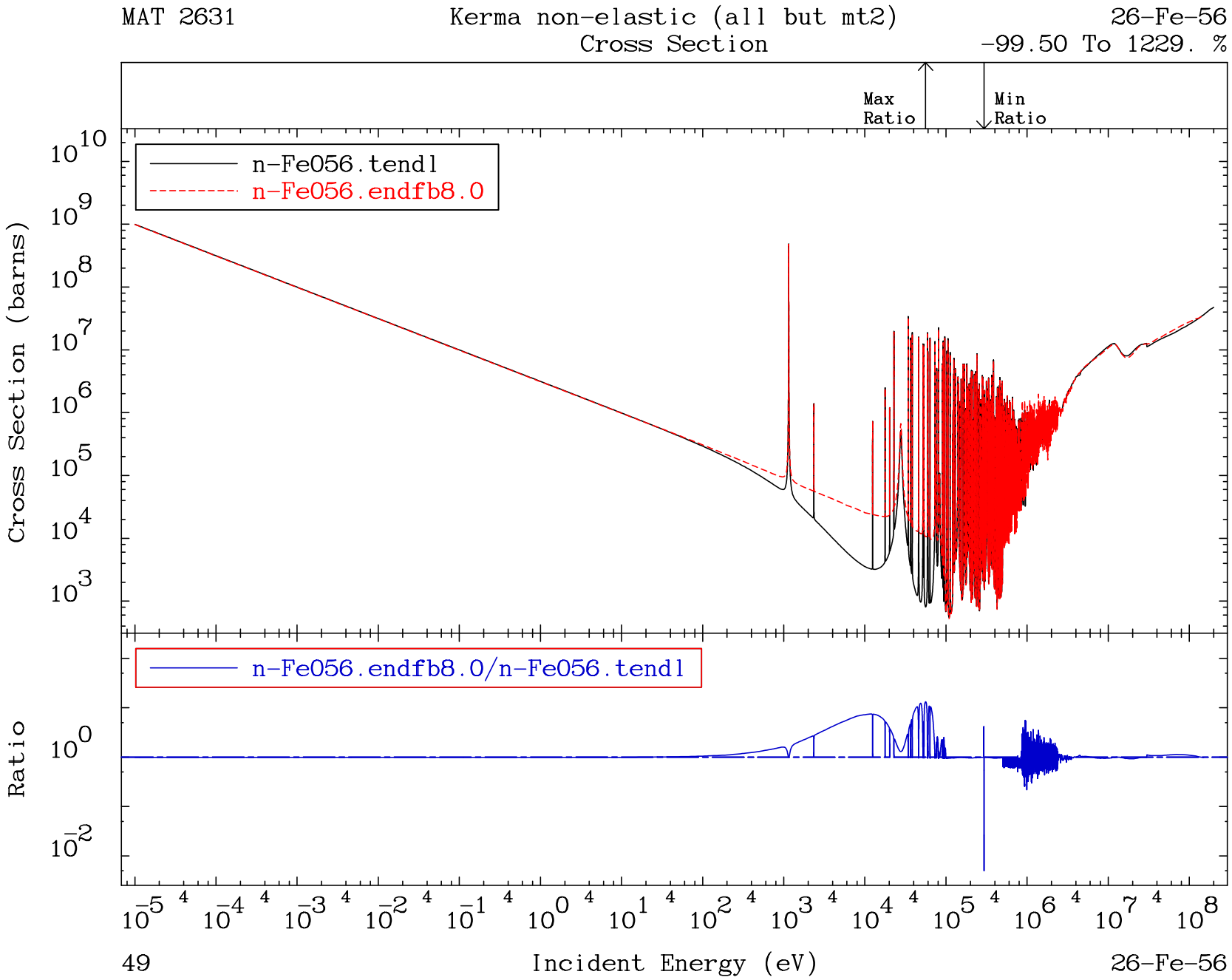

MAT 2631
Tritium Production
Cross Section
26-Fe-56
-97.80 To 9999. %
Max Ratio
Min Ratio
n-Fe056.tendl Threshold 12.143 MeV
n-Fe056.endfb8.0 Threshold 7.7503 MeV
Cross Section (milli-barns)
0
20
40
60
80
100
120
140
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^4
10^2
10^0
10^-2
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
26-Fe-56

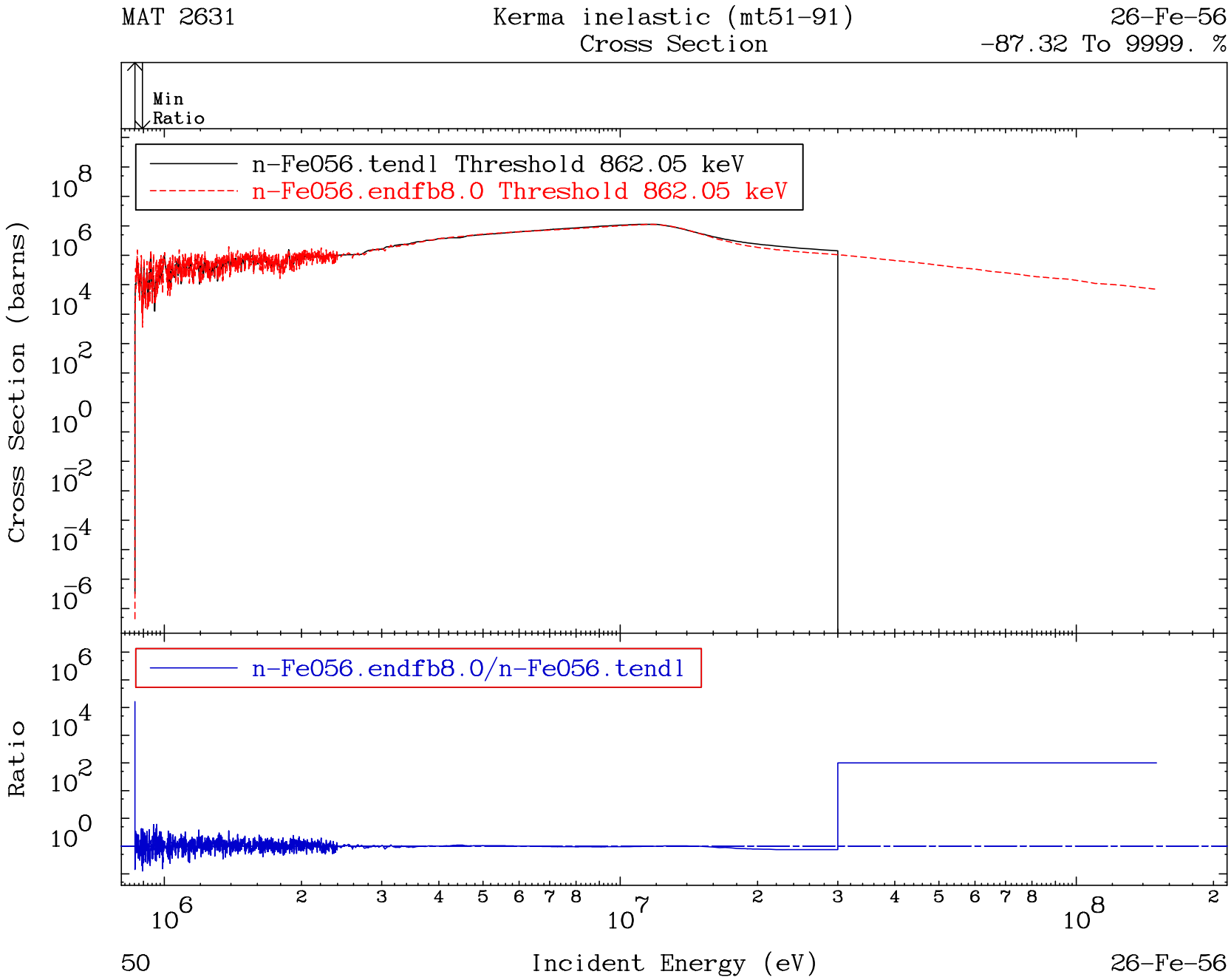

MAT 2631
He-3 Production
Cross Section
26-Fe-56
-94.65 To 9999. %
Max Ratio
Min Ratio
n-Fe056.tendl Threshold 10.722 MeV
n-Fe056.endfb8.0 Threshold 7.7503 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^6
10^4
10^2
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
26-Fe-56

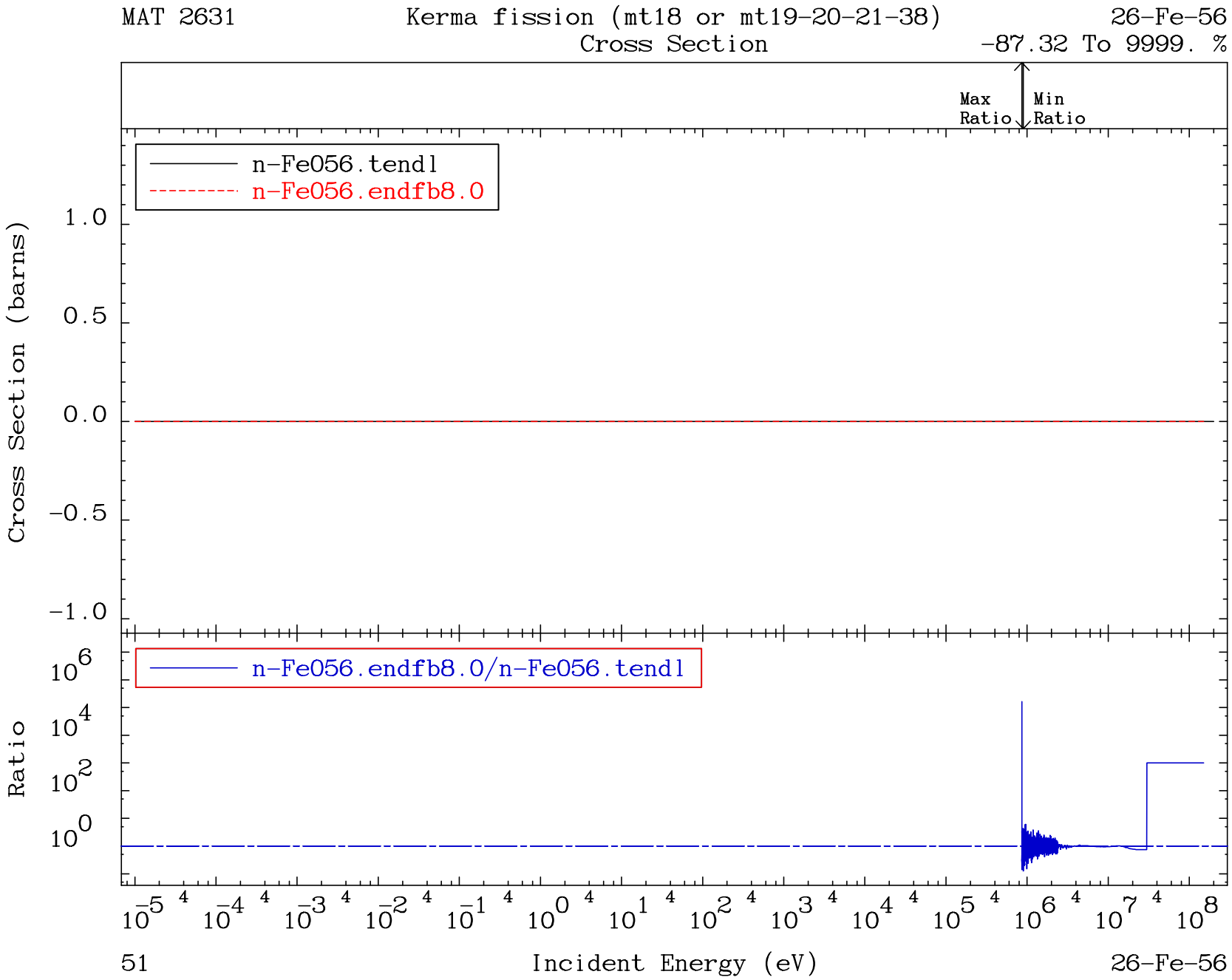

MAT 2631
He-4 Production
Cross Section
26-Fe-56
-5.965 To 9999. %
Max Ratio
Min Ratio
n-Fe056.tendl Threshold 850.00 keV
n-Fe056.endfb8.0 Threshold 976.56 eV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^12
10^8
10^4
10^0
10^3
10^4
10^5
10^6
10^7
10^8
46
Incident Energy (eV)
26-Fe-56

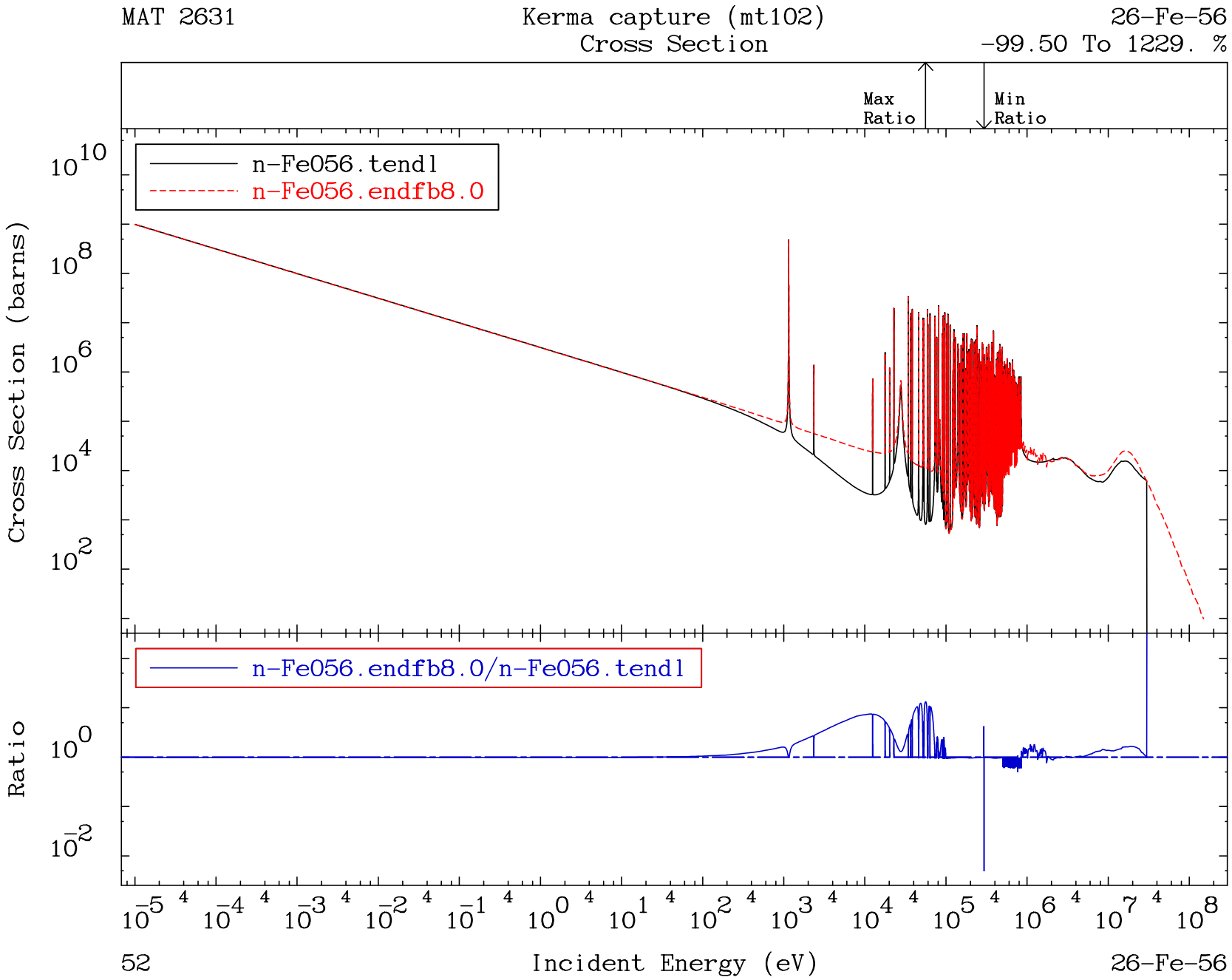

MAT 2631
Kerma total (eV-barns)
Cross Section
26-Fe-56
-97.26 To 445.6 %
Max Ratio
Min Ratio
n-Fe056.tendl
n-Fe056.endfb8.0
Cross Section (barns)
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
Incident Energy (eV)
47
26-Fe-56

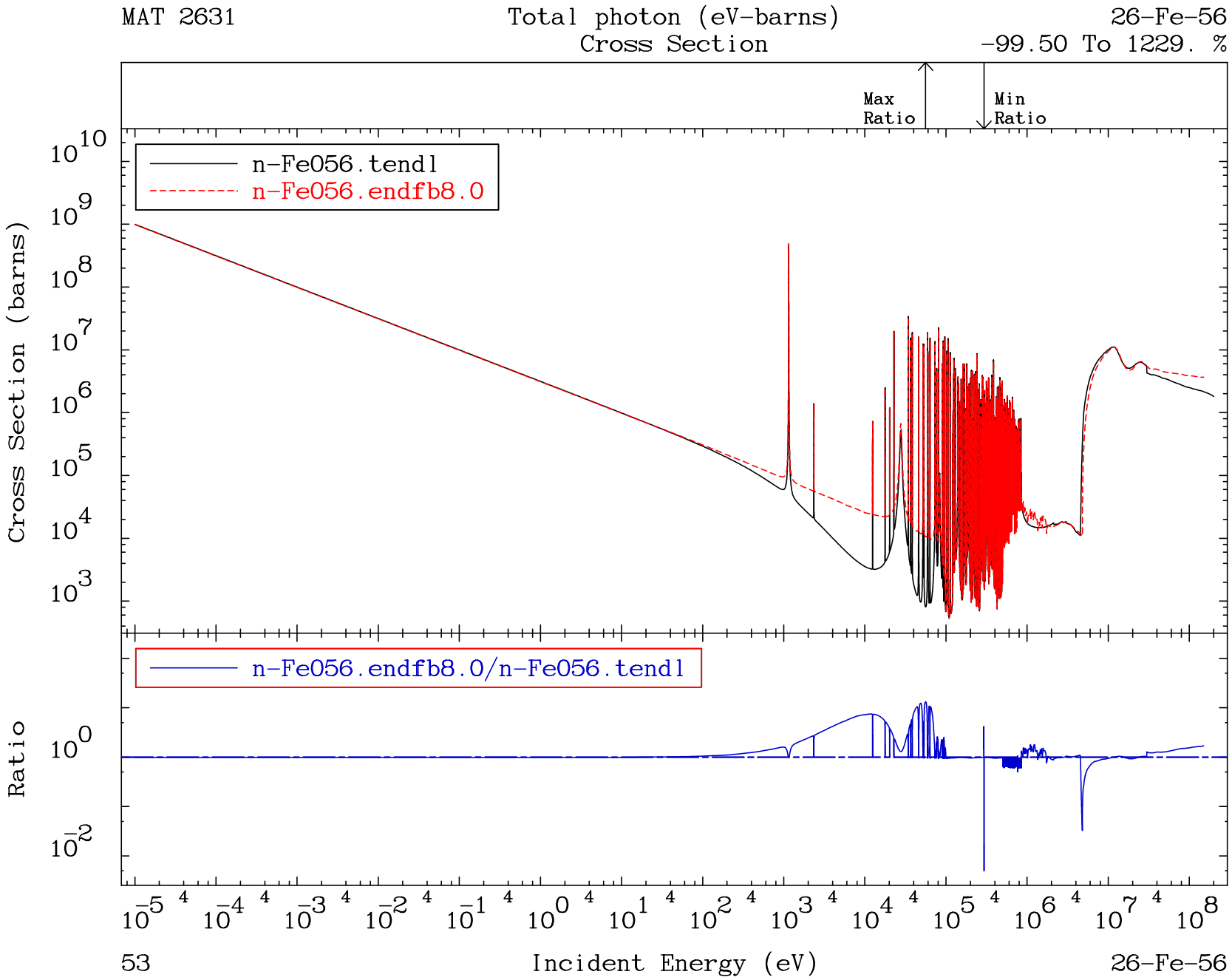

MAT 2631
Kerma elastic
Cross Section
26-Fe-56
-60.66 To 3388. %
Max Ratio
Min Ratio
n-Fe056.tendl
n-Fe056.endfb8.0
Cross Section (barns)
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
Incident Energy (eV)
48
26-Fe-56

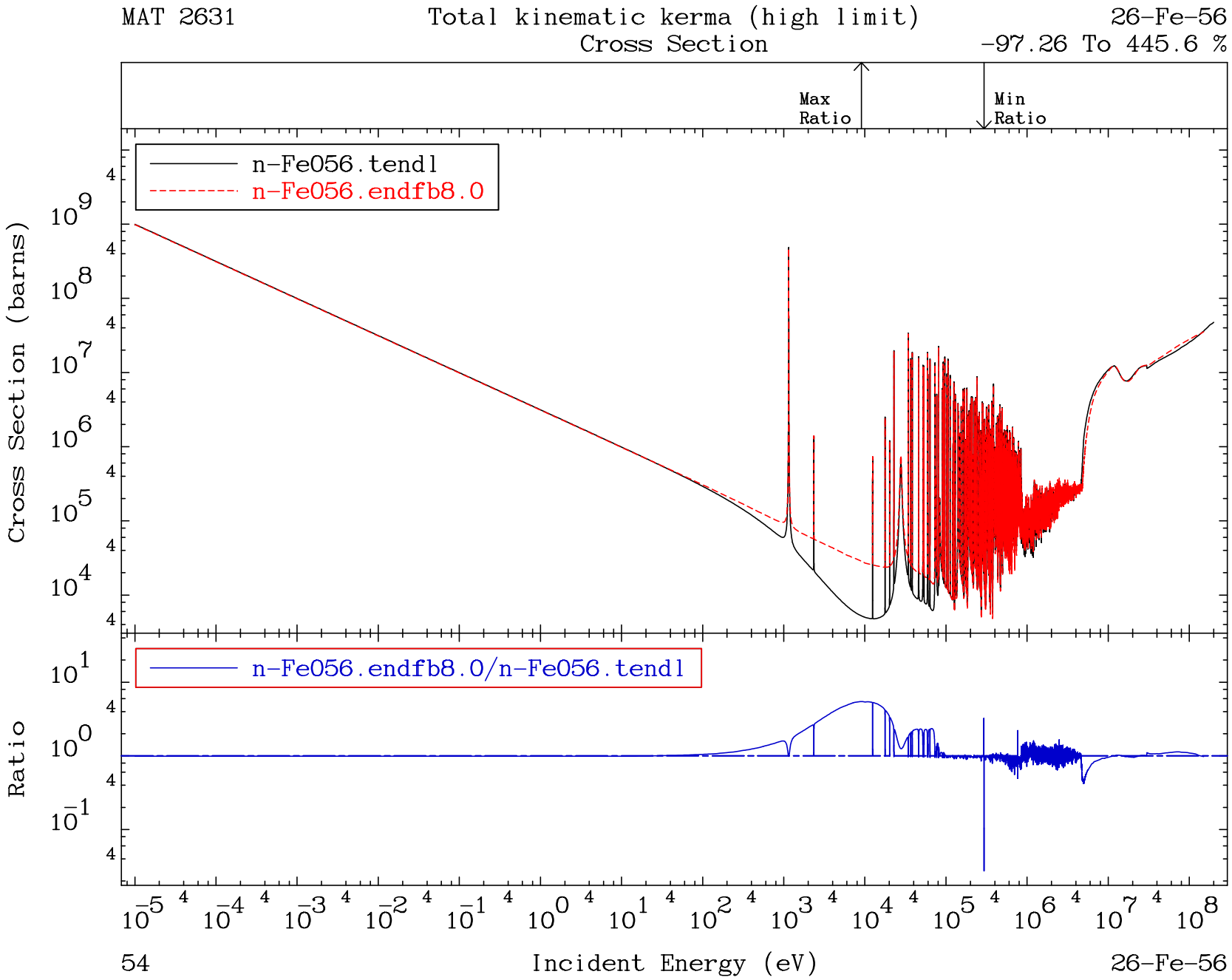

MAT 2631
Kerma non-elastic (all but mt2)
Cross Section
26-Fe-56
-99.50 To 1229. %
Max Ratio
Min Ratio
n-Fe056.tendl
n-Fe056.endfb8.0
Cross Section (barns)
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
Incident Energy (eV)
49
26-Fe-56

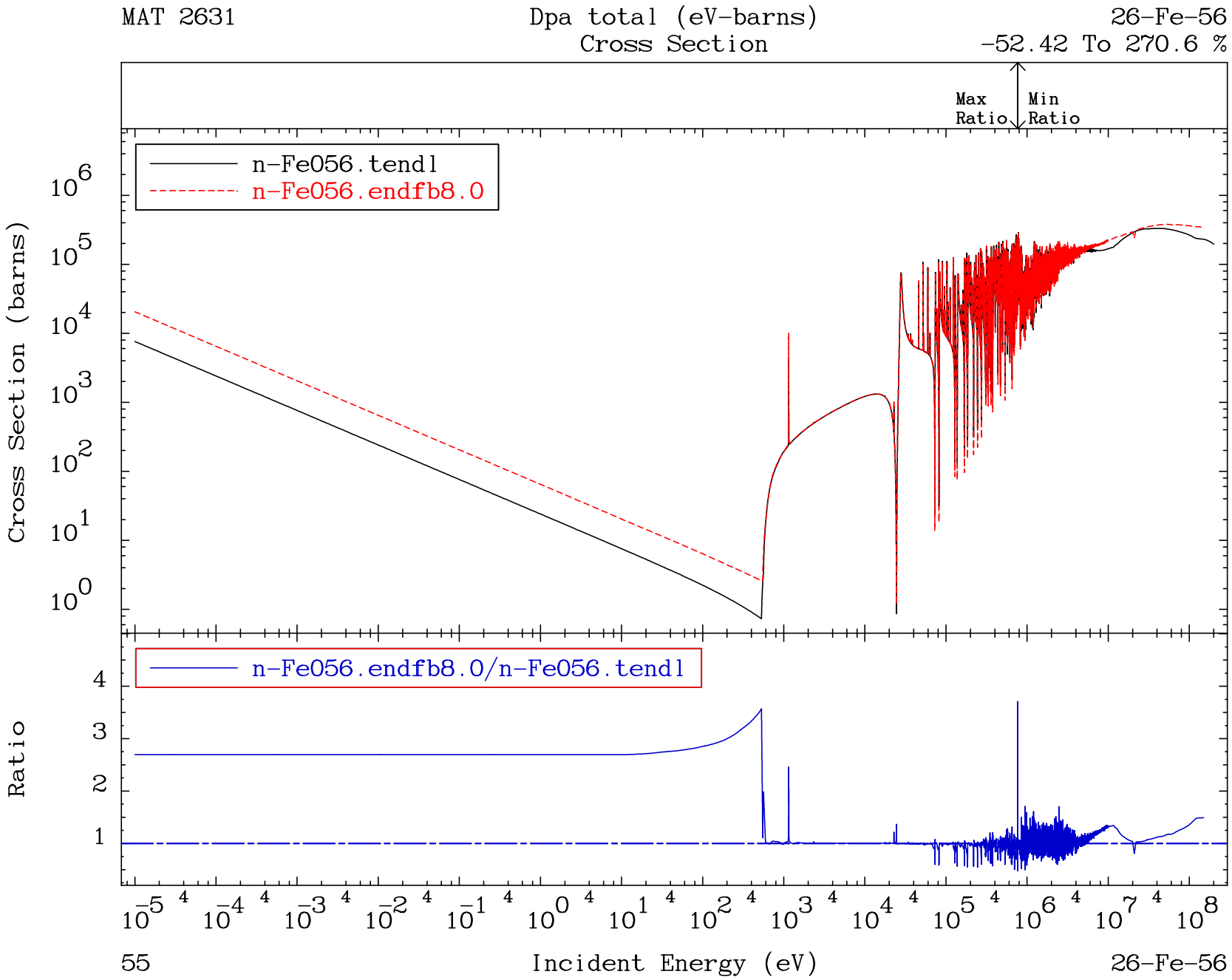

MAT 2631
Kerma inelastic (mt51-91)
Cross Section
26-Fe-56
-87.32 To 9999. %
Min
Ratio
n-Fe056.tendl Threshold 862.05 keV
n-Fe056.endfb8.0 Threshold 862.05 keV
Cross Section (barns)
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
Incident Energy (eV)
50
26-Fe-56

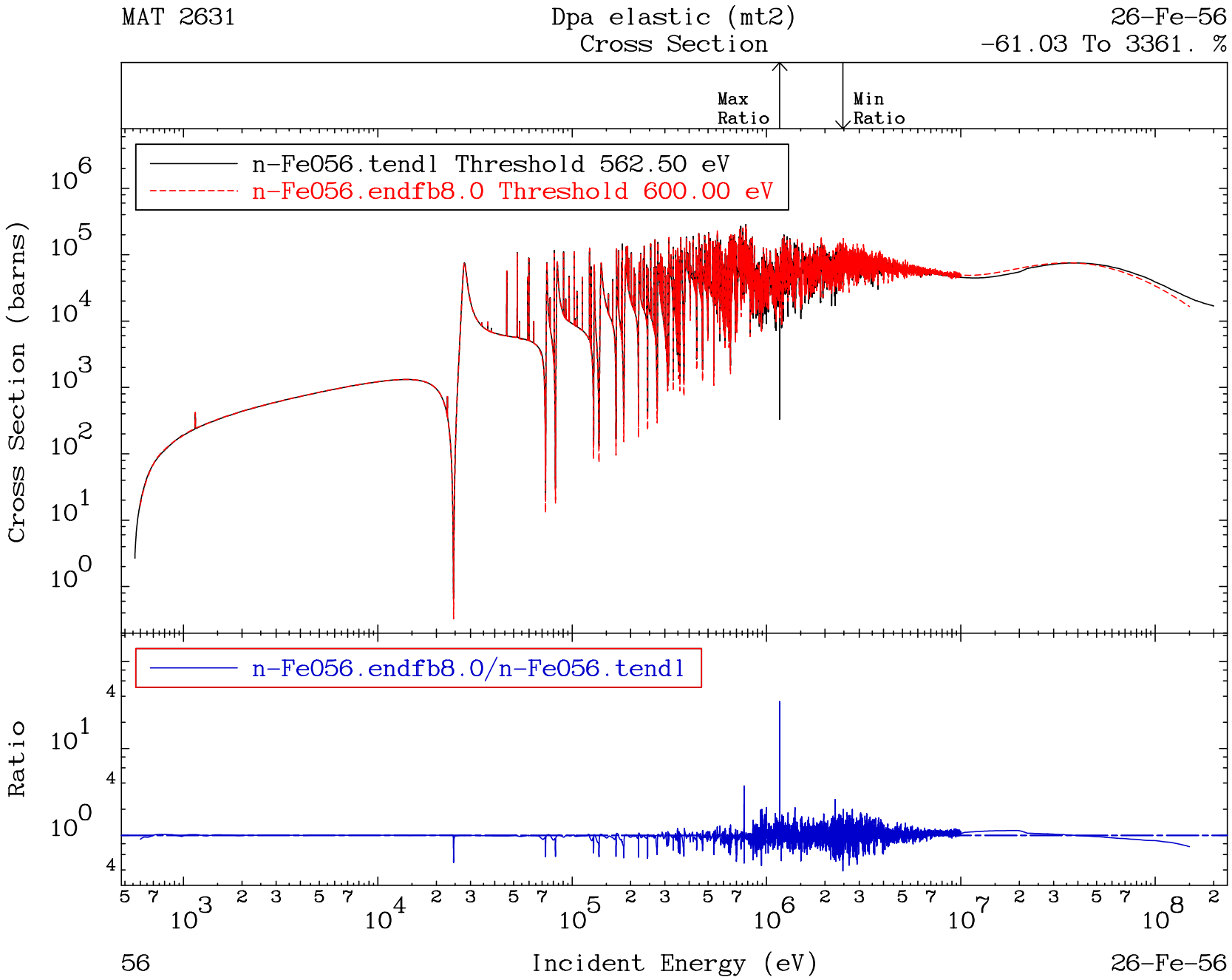

MAT 2631
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
26-Fe-56
-87.32 To 9999. %
Max Ratio
Min Ratio
n-Fe056.tendl
n-Fe056.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
10^6
10^4
10^2
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
51
Incident Energy (eV)
26-Fe-56

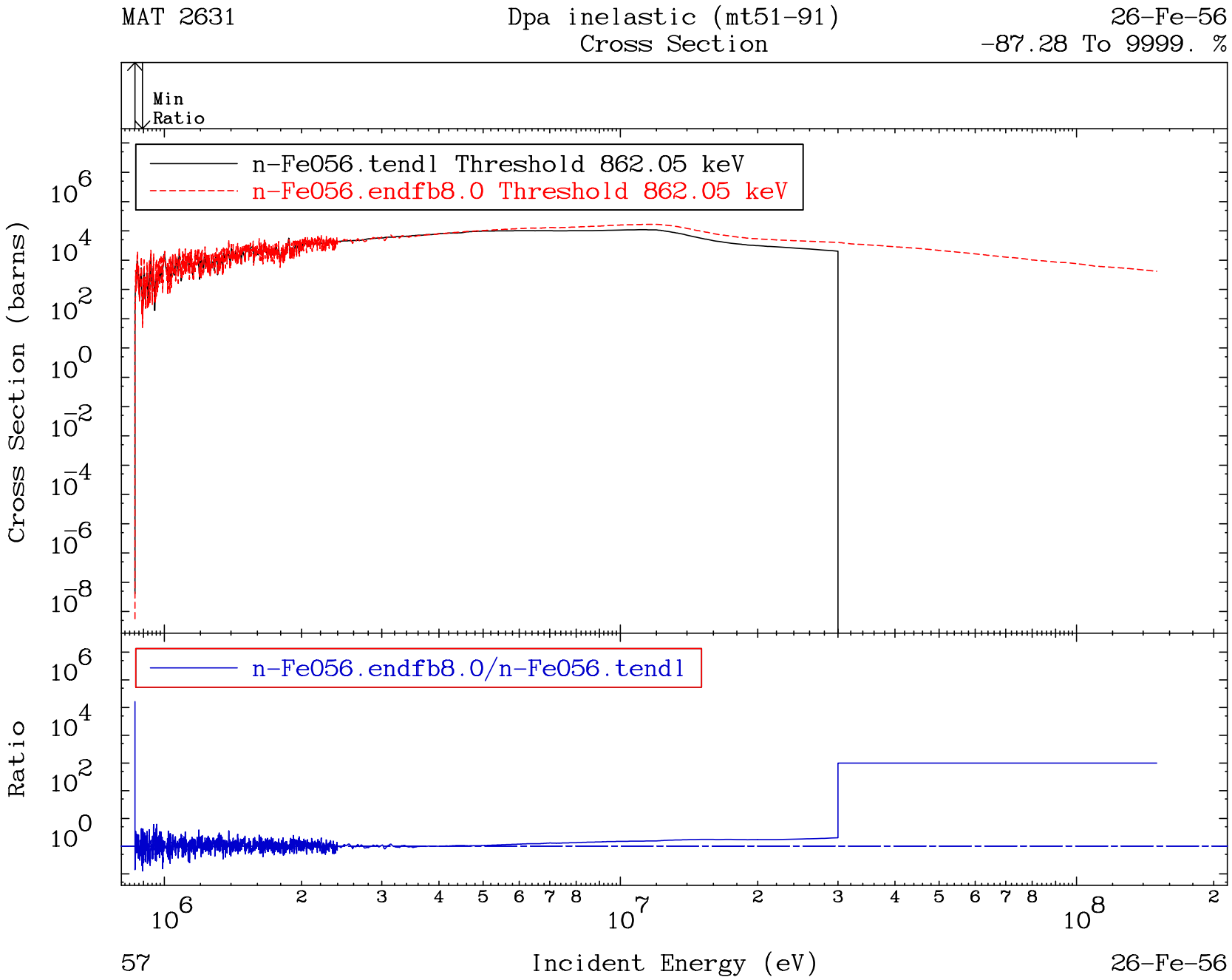

MAT 2631
Kerma capture (mt102)
Cross Section
26-Fe-56
-99.50 To 1229. %
Max Ratio
Min Ratio
n-Fe056.tendl
n-Fe056.endfb8.0
Cross Section (barns)
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
52
Incident Energy (eV)
26-Fe-56

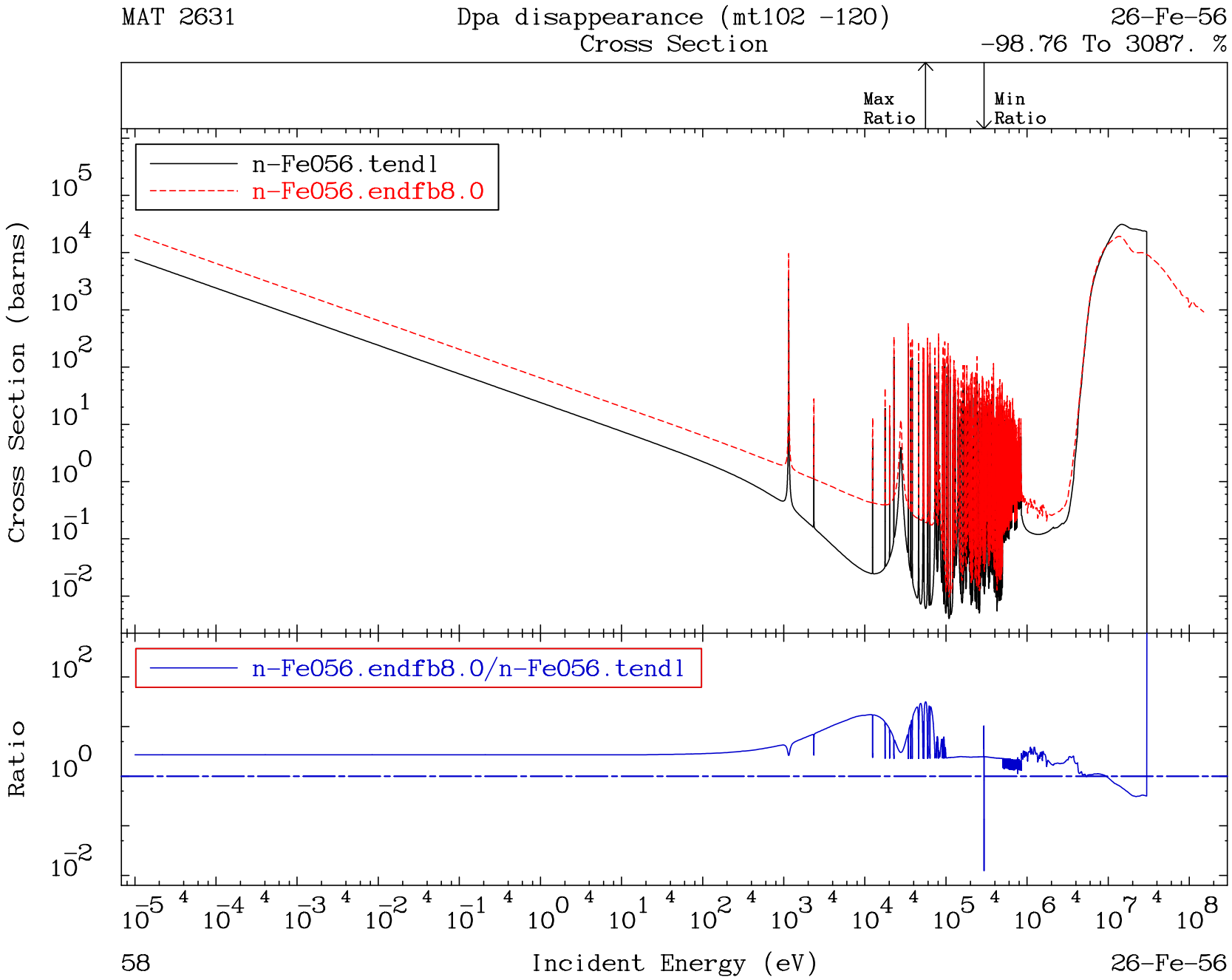

MAT 2631
Total photon (eV-barns)
Cross Section
26-Fe-56
-99.50 To 1229. %
Max Ratio
Min Ratio
n-Fe056.tendl
n-Fe056.endfb8.0
Cross Section (barns)
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
Incident Energy (eV)
53
26-Fe-56


MAT 2631
Total kinematic kerma (high limit)
Cross Section
26-Fe-56
-97.26 To 445.6 %
Max Ratio
Min Ratio
n-Fe056.tendl
n-Fe056.endfb8.0
Cross Section (barns)
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
Incident Energy (eV)
54
26-Fe-56


MAT 2631
Dpa total (eV-barns)
Cross Section
26-Fe-56
-52.42 To 270.6 %
Max Ratio
Min Ratio
n-Fe056.tendl
n-Fe056.endfb8.0
Cross Section (barns)
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
Incident Energy (eV)
55
26-Fe-56


MAT 2631
Dpa elastic (mt2)
Cross Section
26-Fe-56
-61.03 To 3361. %
Max Ratio
Min Ratio
n-Fe056.tendl Threshold 562.50 eV
n-Fe056.endfb8.0 Threshold 600.00 eV
Cross Section (barns)
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
Incident Energy (eV)
56
26-Fe-56


MAT 2631
Dpa inelastic (mt51-91)
Cross Section
26-Fe-56
-87.28 To 9999. %
Min
Ratio
n-Fe056.tendl Threshold 862.05 keV
n-Fe056.endfb8.0 Threshold 862.05 keV
Cross Section (barns)
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
Incident Energy (eV)
57
26-Fe-56


MAT 2631
Dpa disappearance (mt102 -120)
Cross Section
26-Fe-56
-98.76 To 3087. %
Max Ratio
Min Ratio
n-Fe056.tendl
n-Fe056.endfb8.0
Cross Section (barns)
n-Fe056.endfb8.0/n-Fe056.tendl
Ratio
58
Incident Energy (eV)
26-Fe-56