Program Complot
(Version 2018-1)
by
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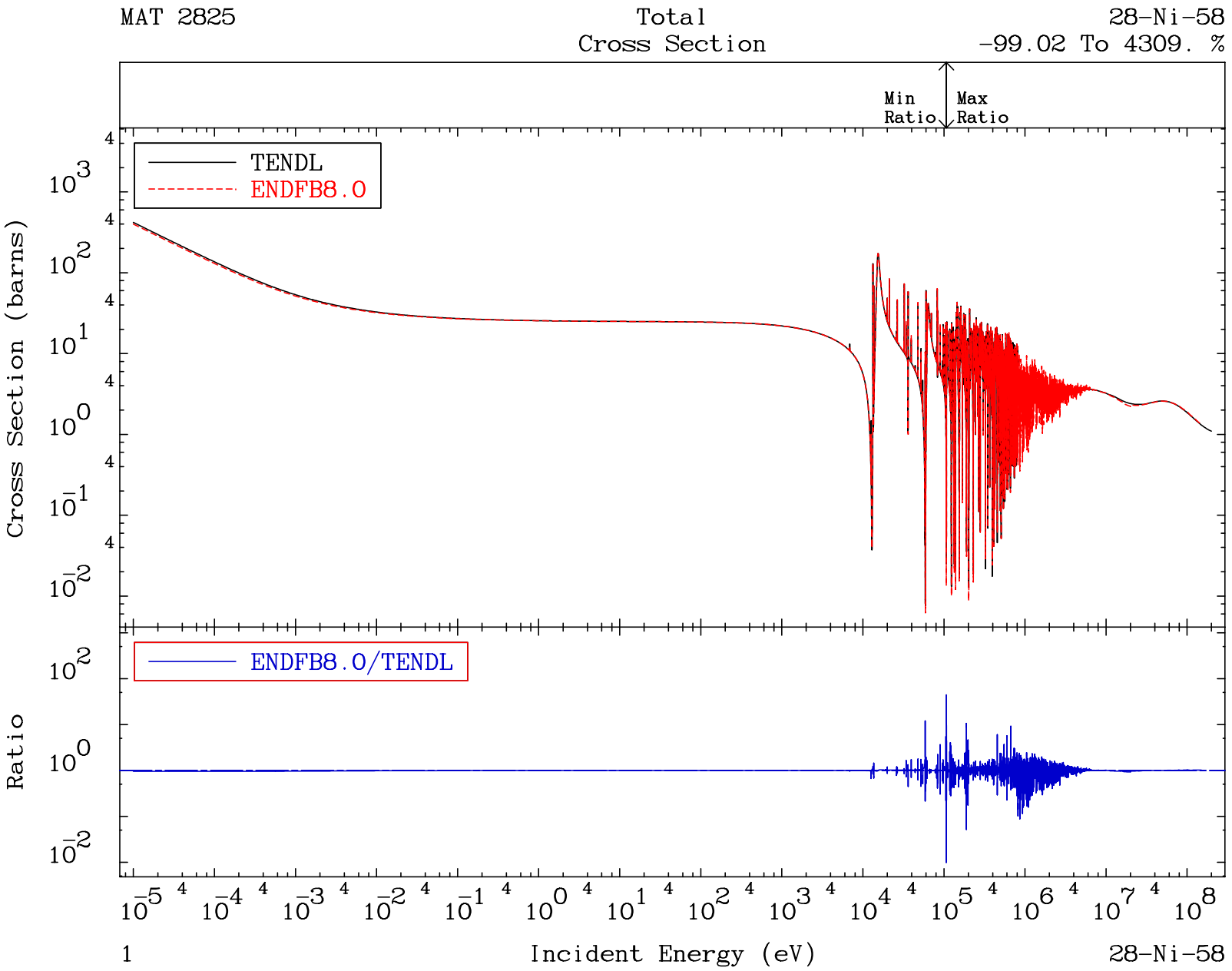
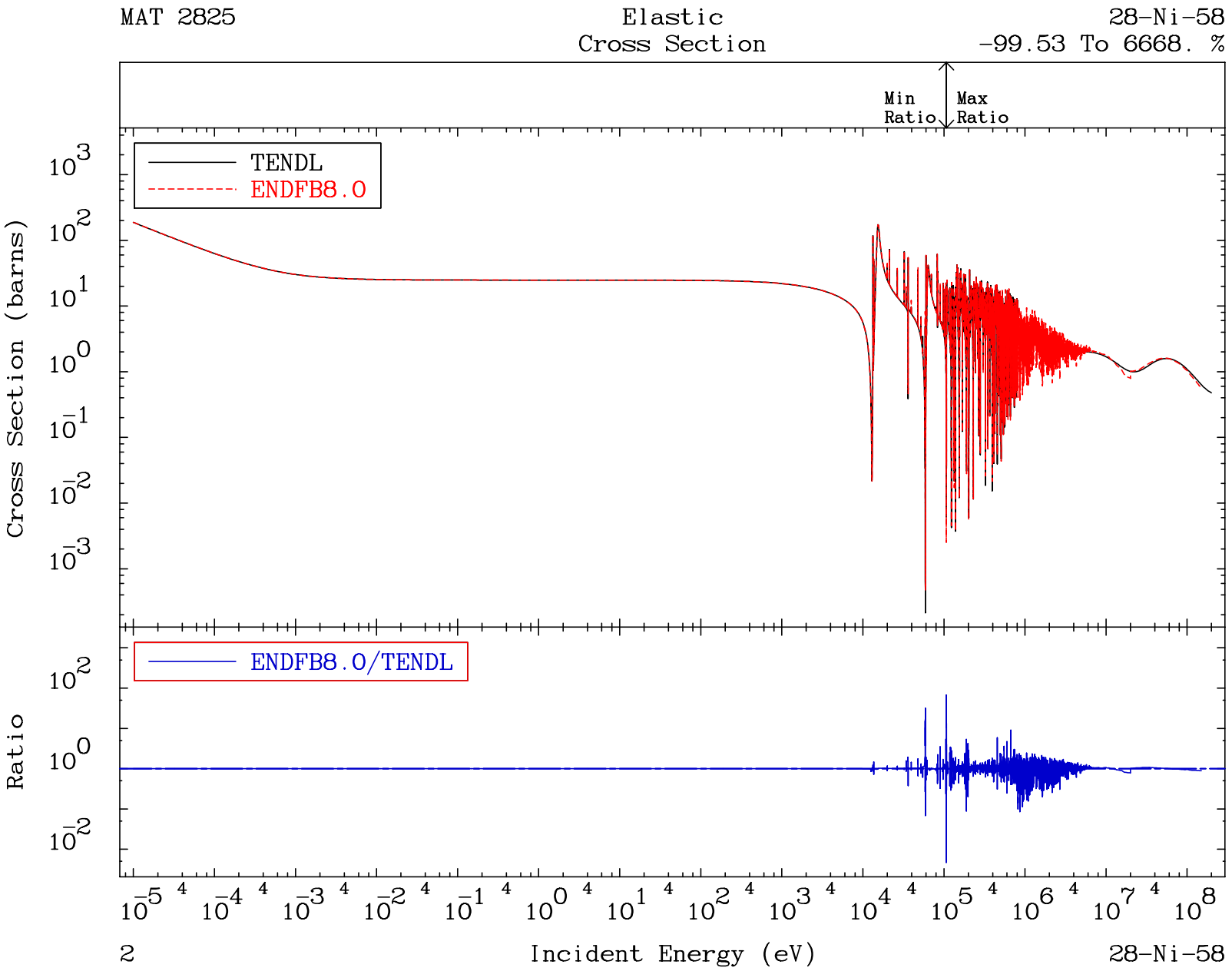
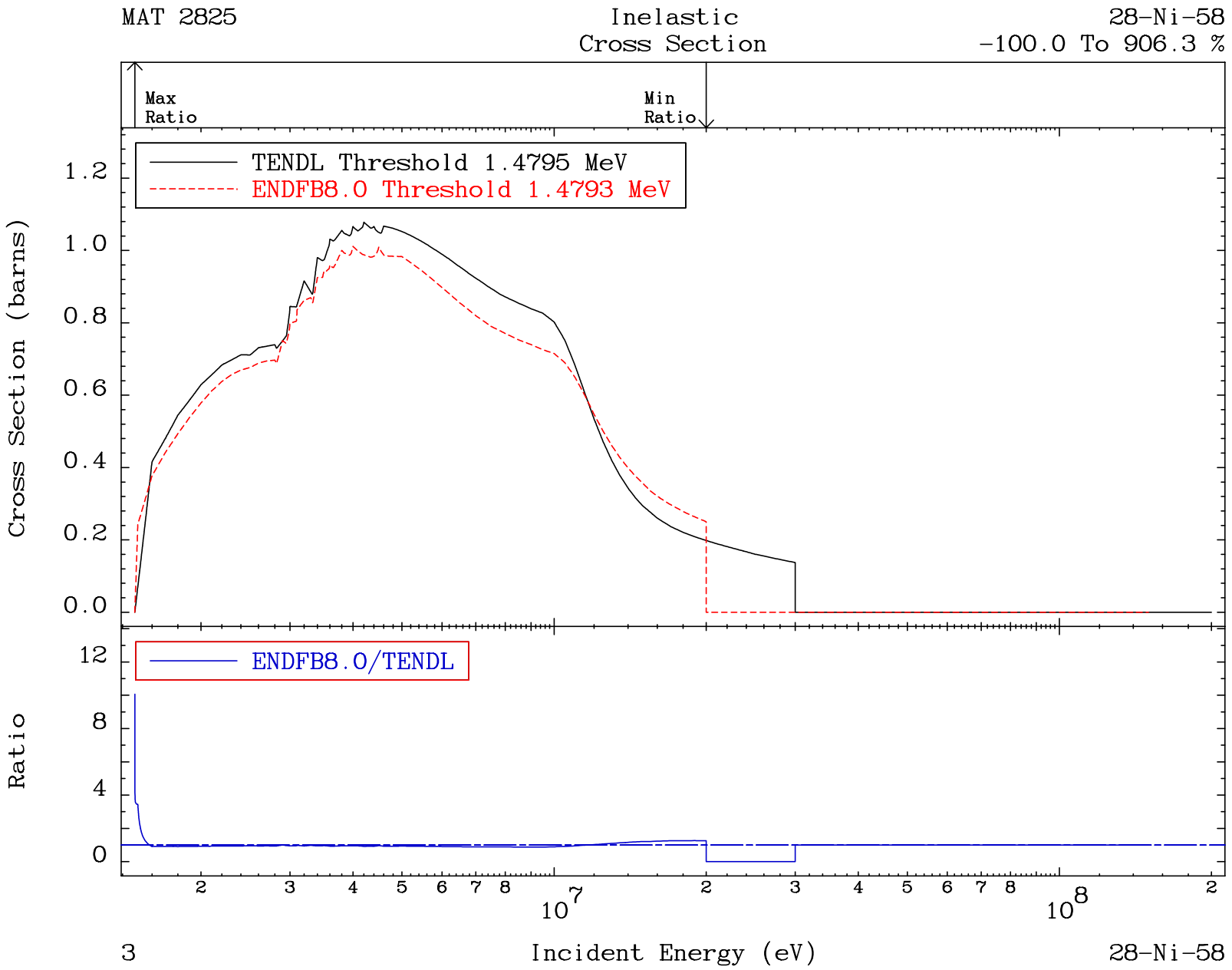
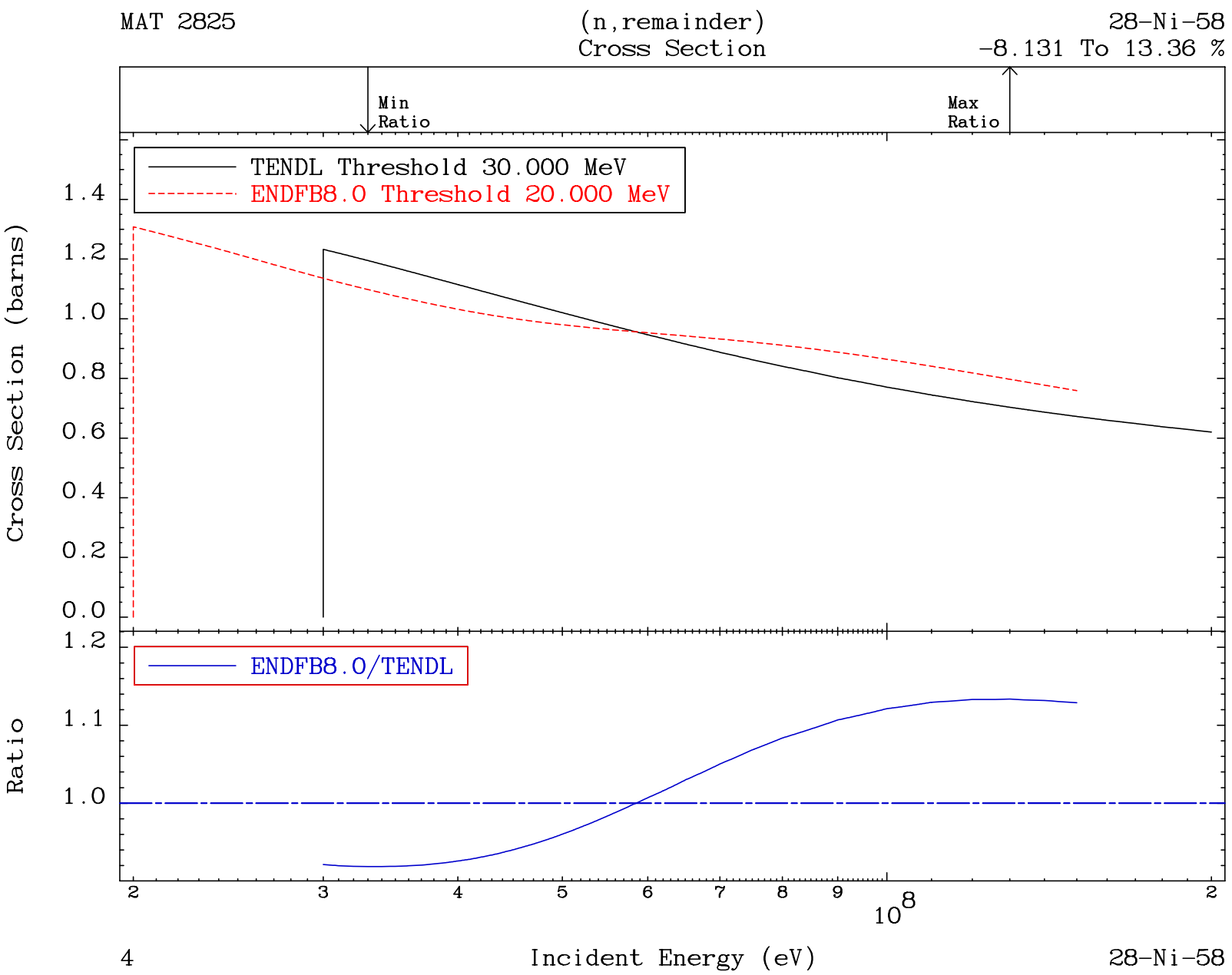
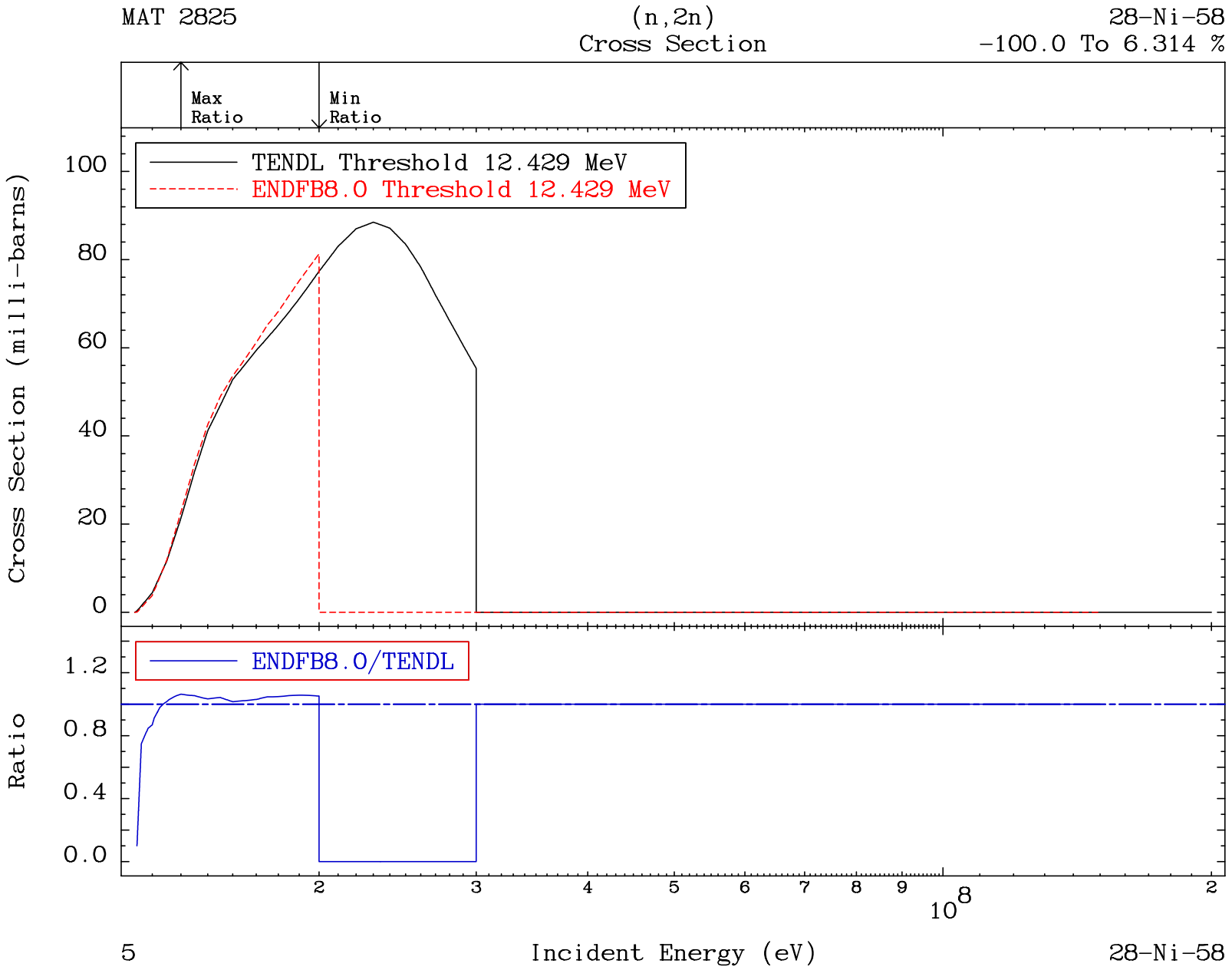
Press Mouse Button to Start

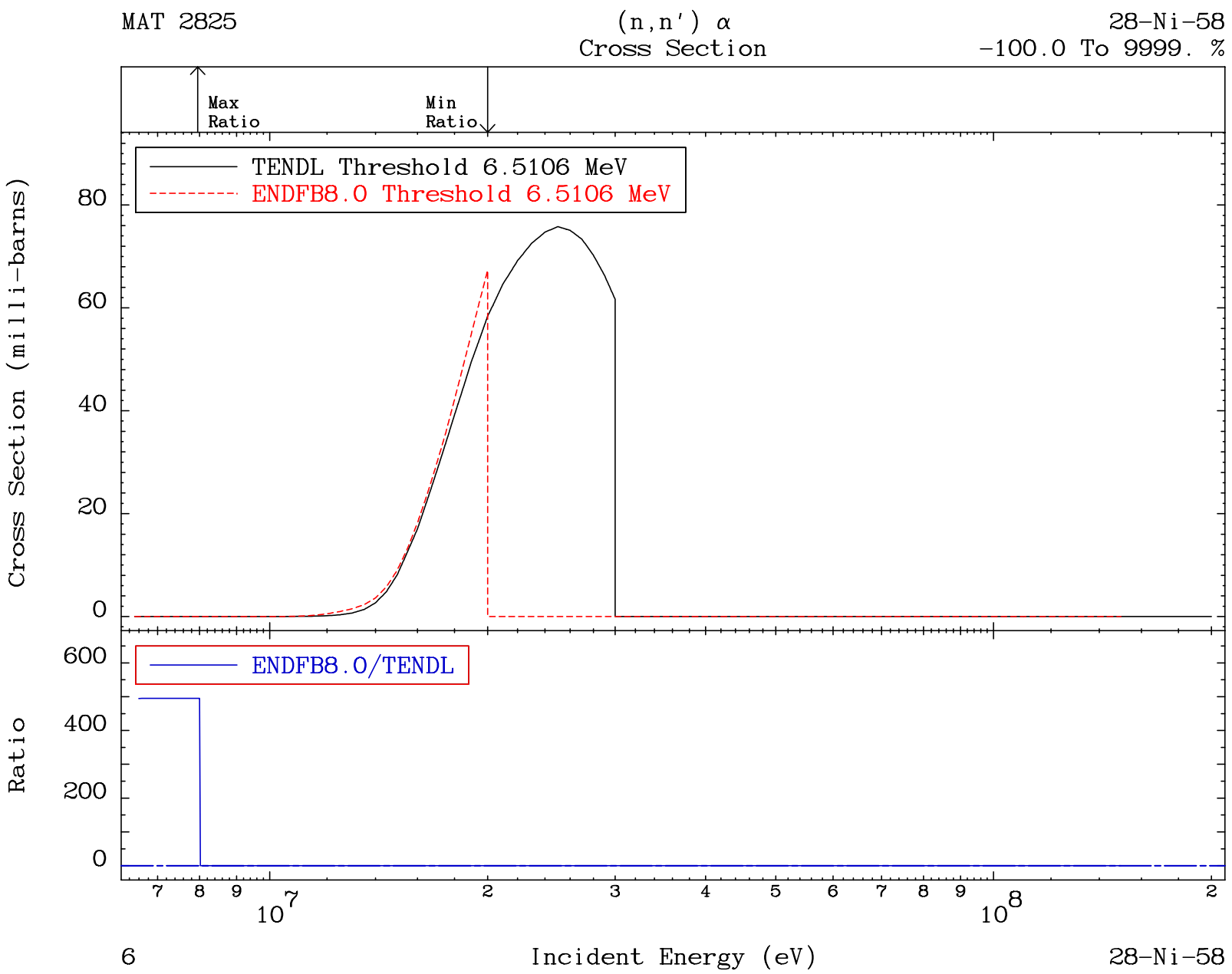

MAT 2825
Total
Cross Section
28-Ni-58
-99.02 To 4309. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
1
28-Ni-58

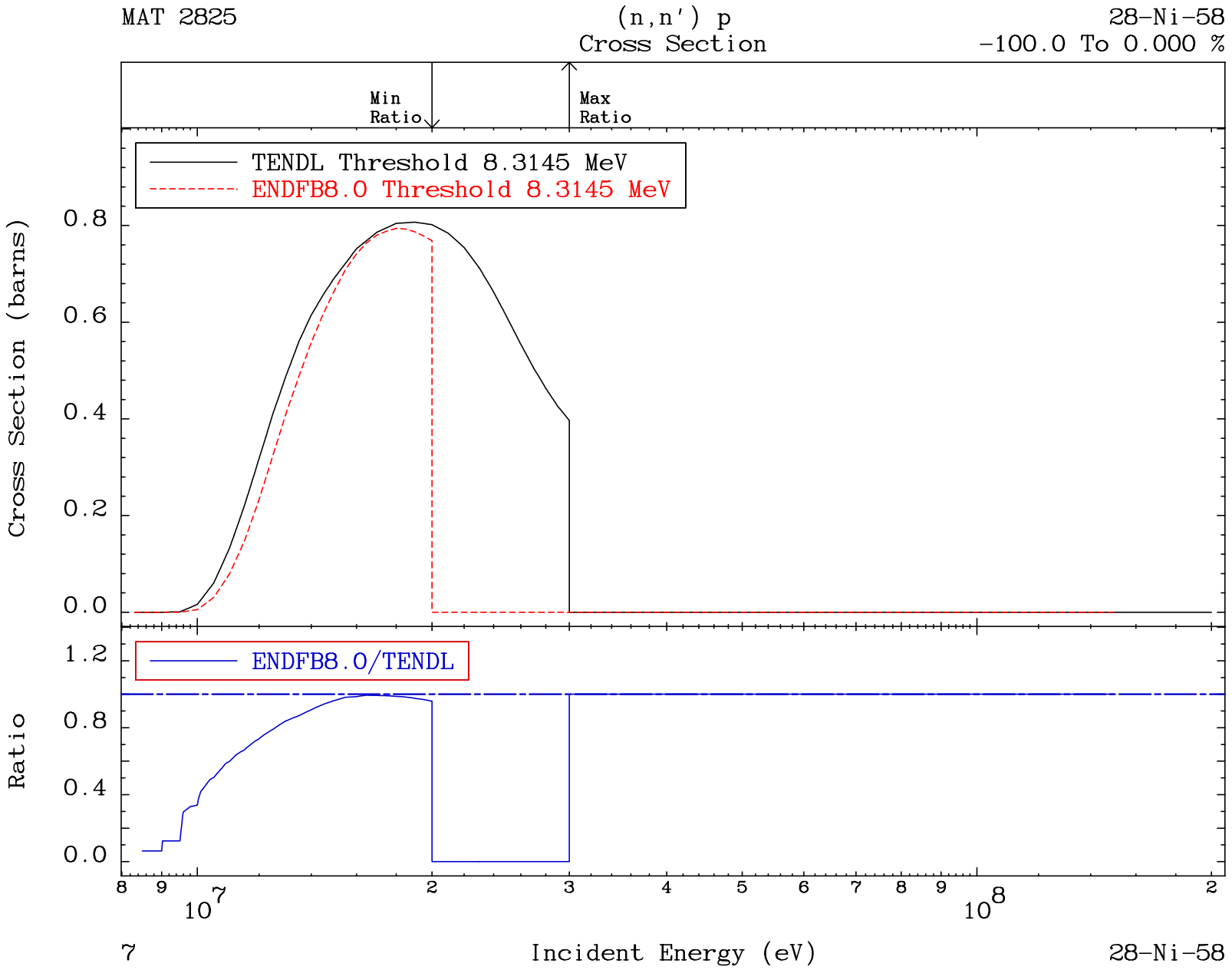

MAT 2825
Elastic
Cross Section
28-Ni-58
-99.53 To 6668. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
2
28-Ni-58

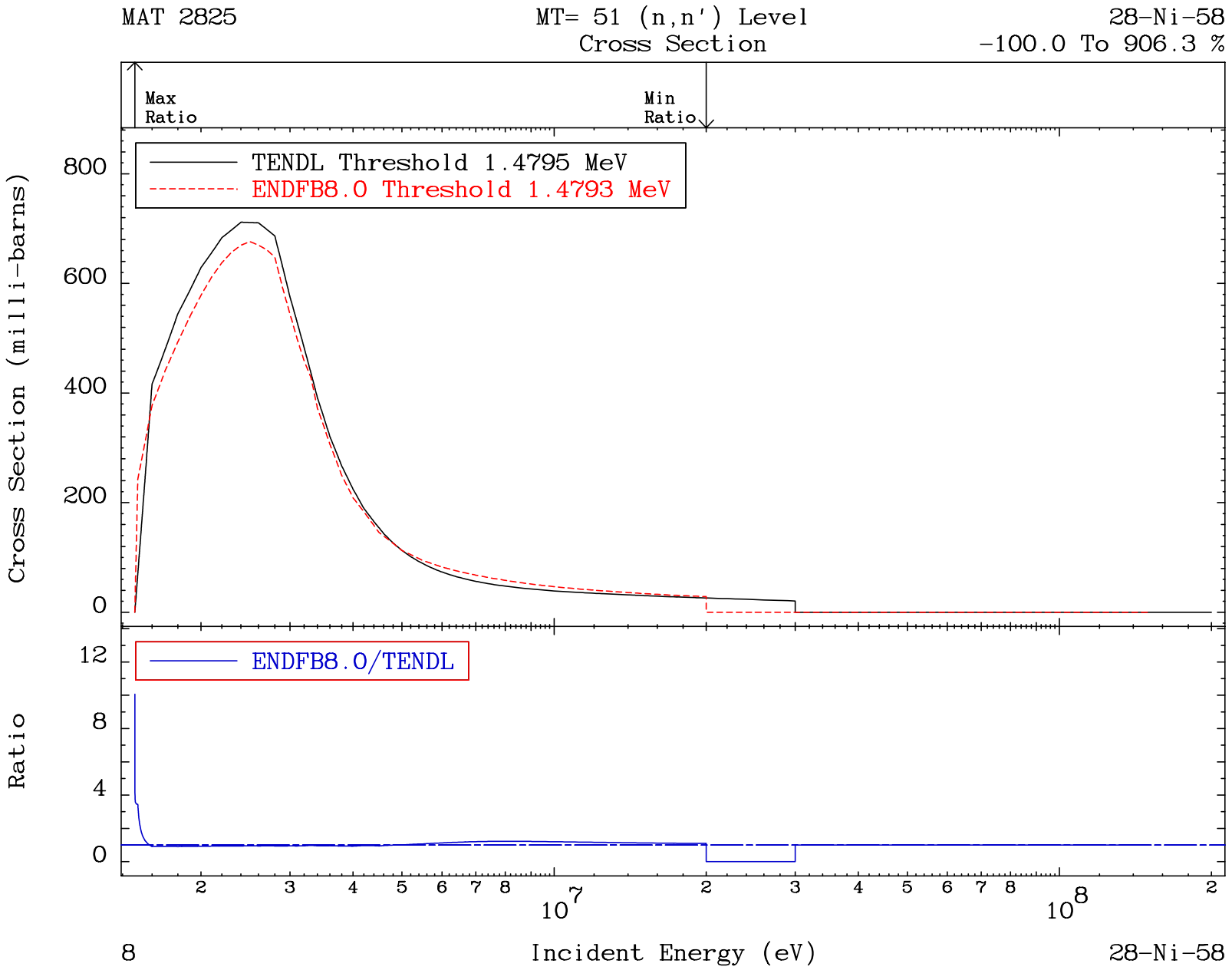

MAT 2825
Inelastic
Cross Section
28-Ni-58
-100.0 To 906.3 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.4795 MeV
ENDFB8.0 Threshold 1.4793 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
ENDFB8.0/TENDL
Ratio
12
8
4
0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
28-Ni-58

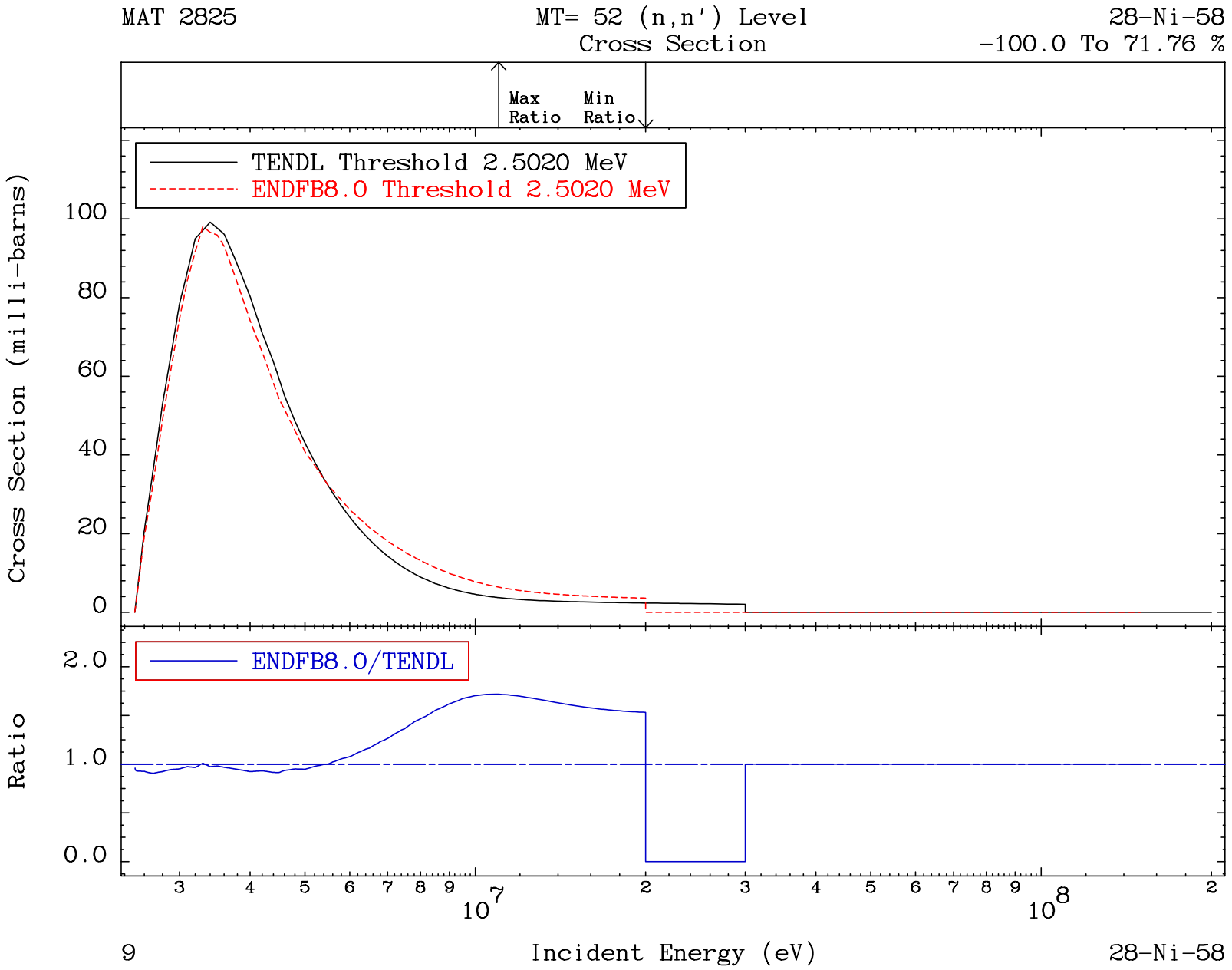

MAT 2825
(n,remainder)
Cross Section
28-Ni-58
-8.131 To 13.36 %
Min
Ratio
Max
Ratio
TENDL Threshold 30.000 MeV
ENDFB8.0 Threshold 20.000 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
ENDFB8.0/TENDL
Ratio
1.2
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
28-Ni-58

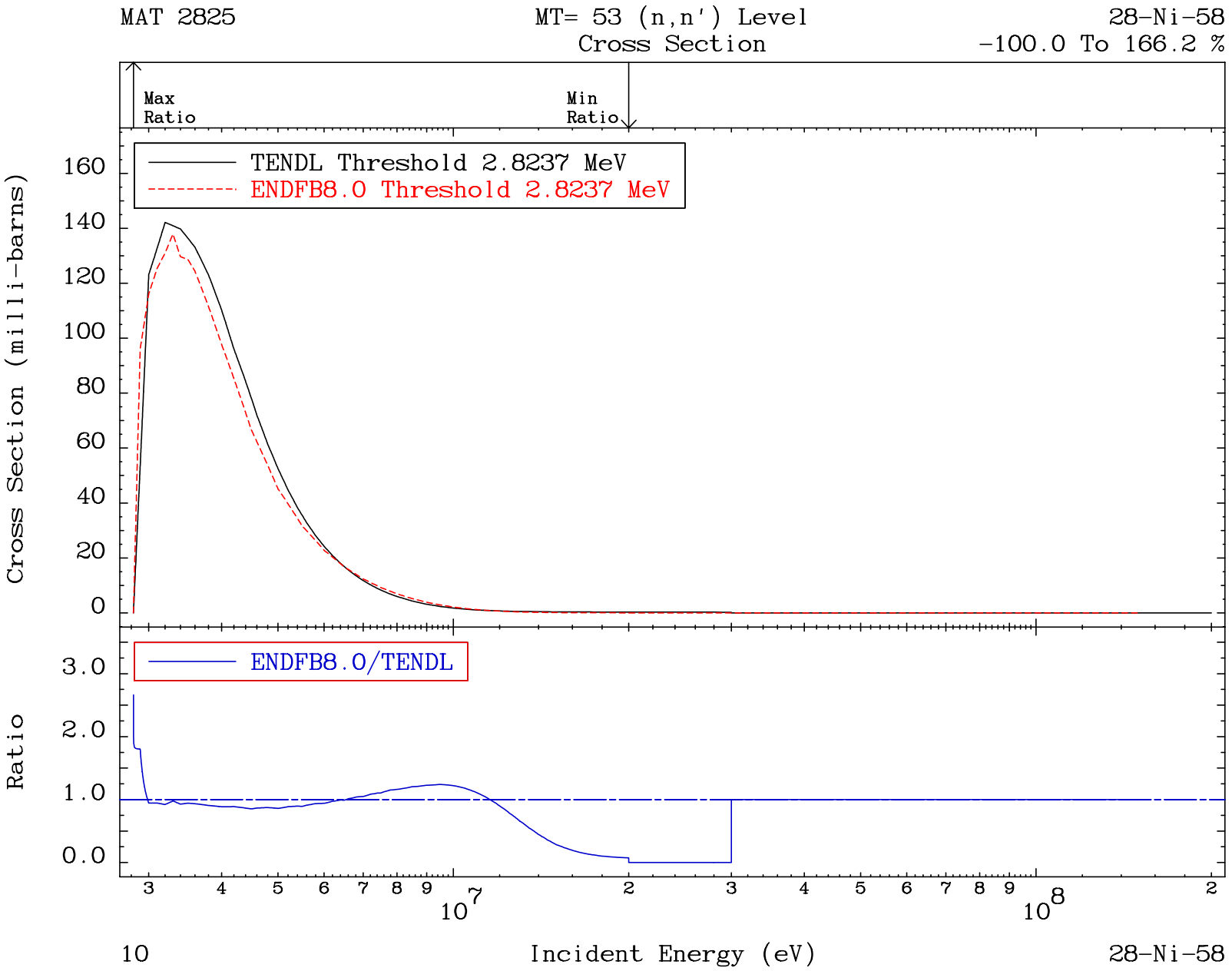

MAT 2825
(n,2n)
Cross Section
28-Ni-58
-100.0 To 6.314 %
Max Ratio
Min Ratio
TENDL Threshold 12.429 MeV
ENDFB8.0 Threshold 12.429 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
28-Ni-58

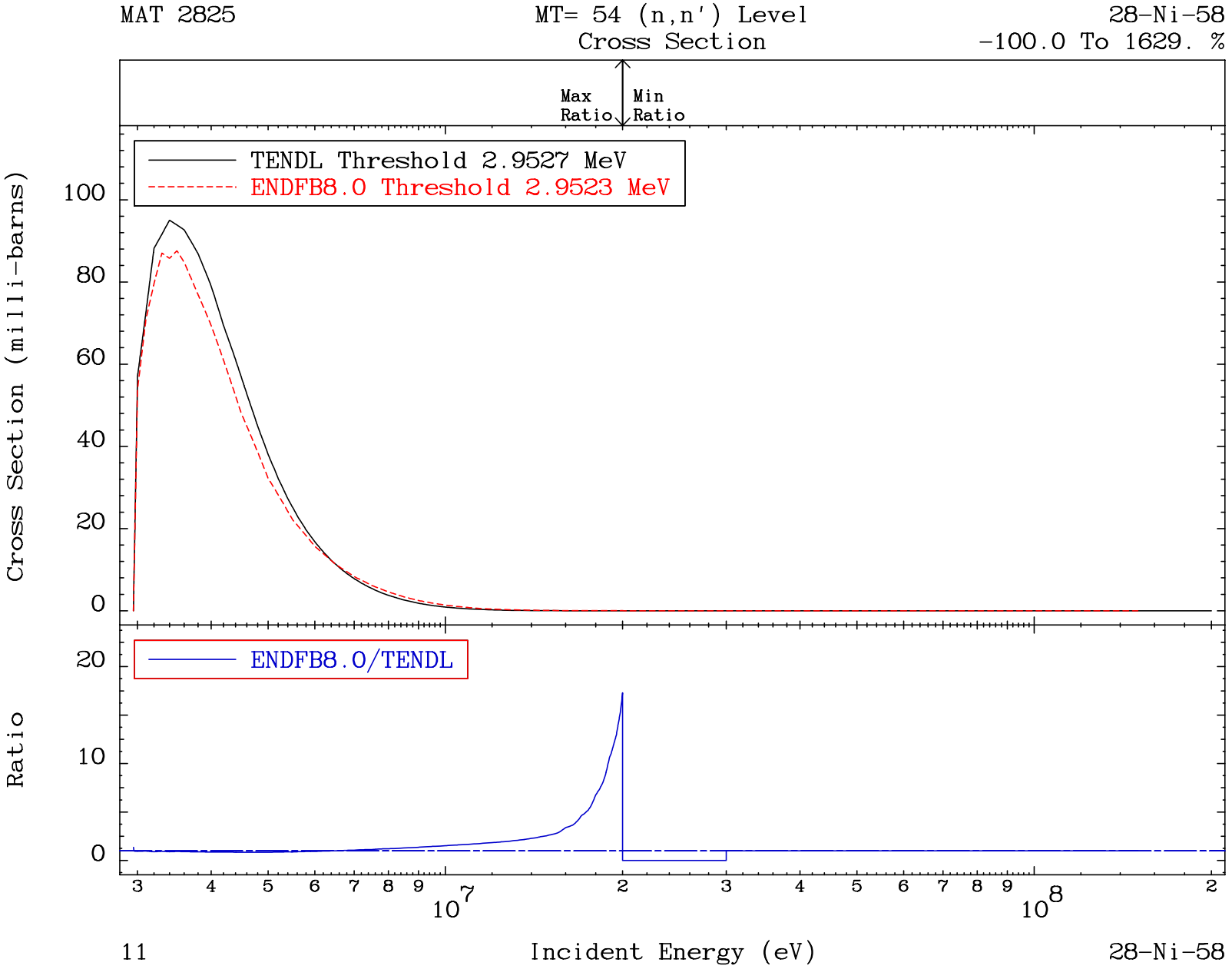

MAT 2825
(n,n') α
Cross Section
28-Ni-58
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.5106 MeV
ENDFB8.0 Threshold 6.5106 MeV
Cross Section (milli-barns)
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
600
400
200
0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
28-Ni-58

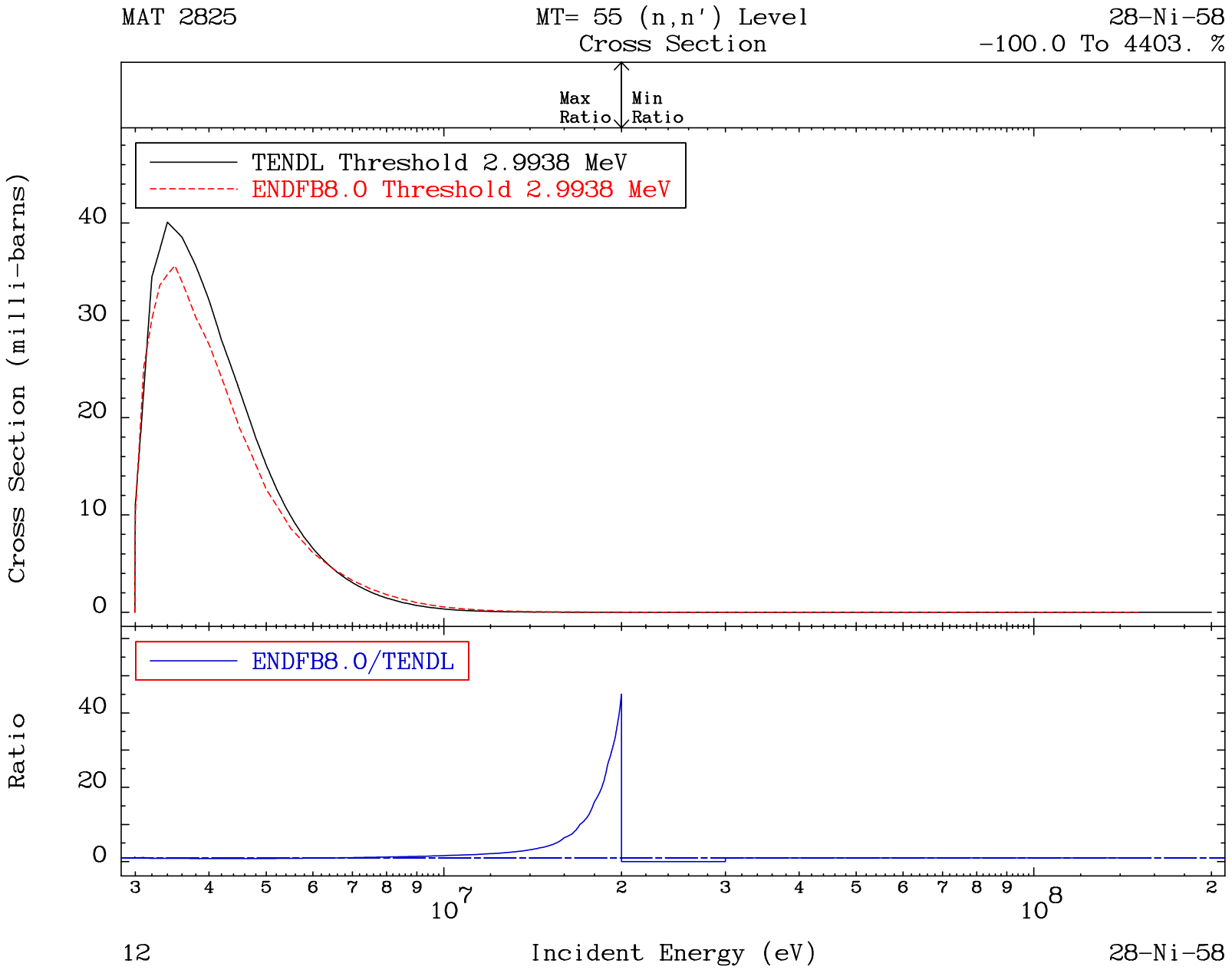

MAT 2825
(n,n') p
Cross Section
28-Ni-58
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 8.3145 MeV
ENDFB8.0 Threshold 8.3145 MeV
Cross Section (barns)
0.8
0.6
0.4
0.2
0.0
ENDFB8.0/TENDL
Ratio
1.2
0.8
0.4
0.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
28-Ni-58

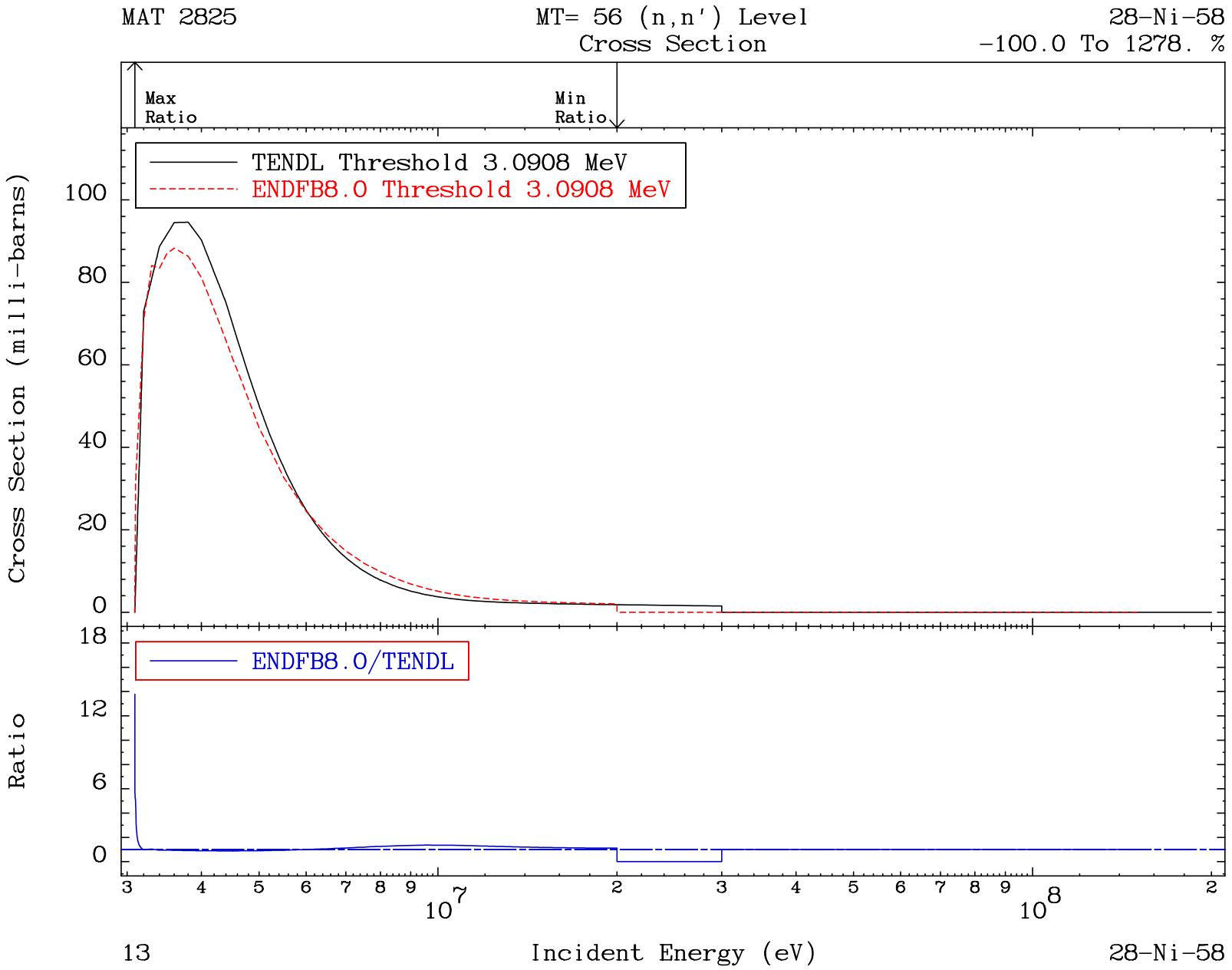

MAT 2825
MT= 51 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 906.3 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.4795 MeV
ENDFB8.0 Threshold 1.4793 MeV
Cross Section (milli-barns)
800
600
400
200
0
ENDFB8.0/TENDL
Ratio
12
8
4
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
8
Incident Energy (eV)
28-Ni-58

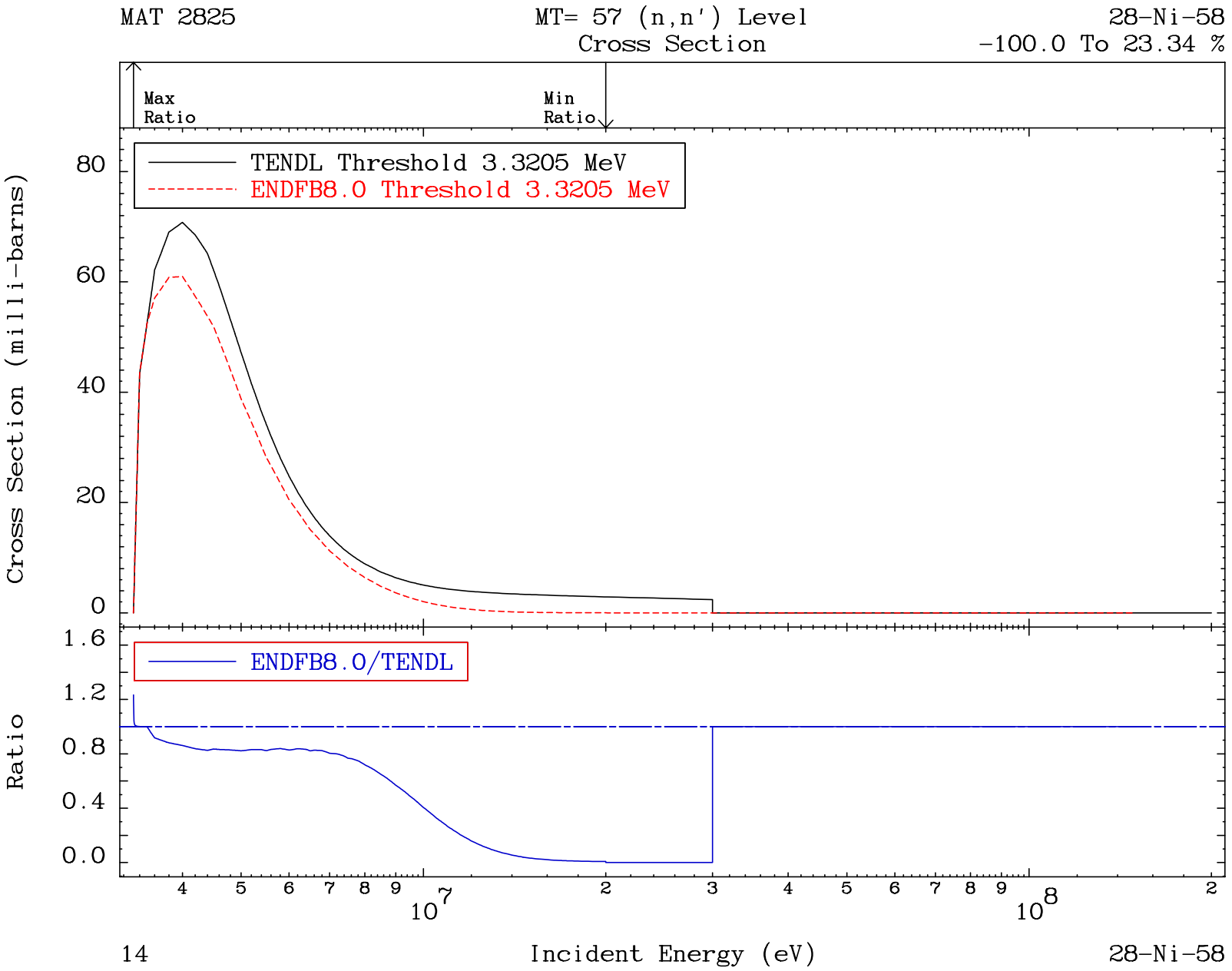

MAT 2825
MT= 52 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 71.76 %
Max Ratio
Min Ratio
TENDL Threshold 2.5020 MeV
ENDFB8.0 Threshold 2.5020 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
2.0
1.0
0.0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
9
Incident Energy (eV)
28-Ni-58

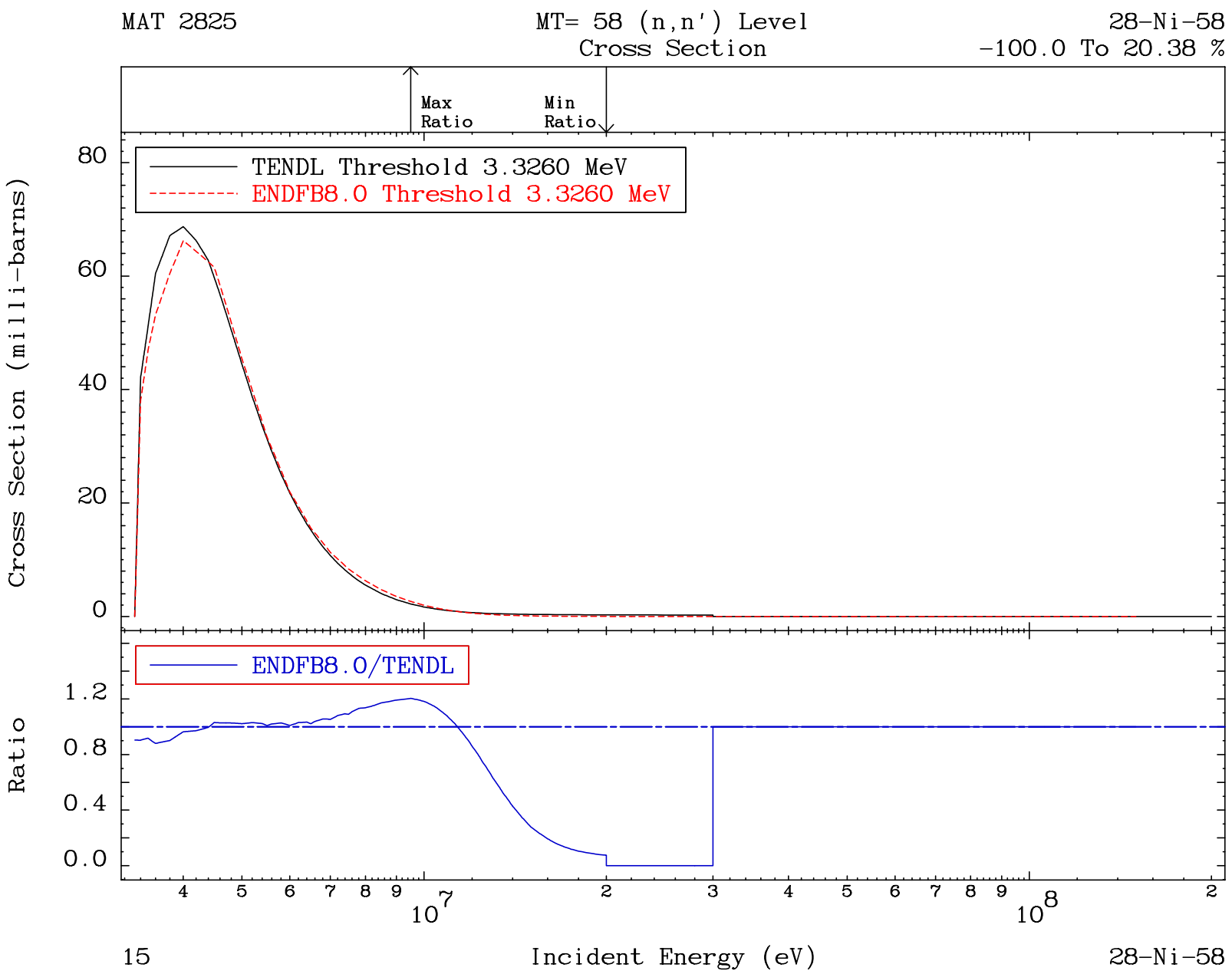

MAT 2825
MT= 53 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 166.2 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.8237 MeV
ENDFB8.0 Threshold 2.8237 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
3.0
2.0
1.0
0.0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
10
Incident Energy (eV)
28-Ni-58

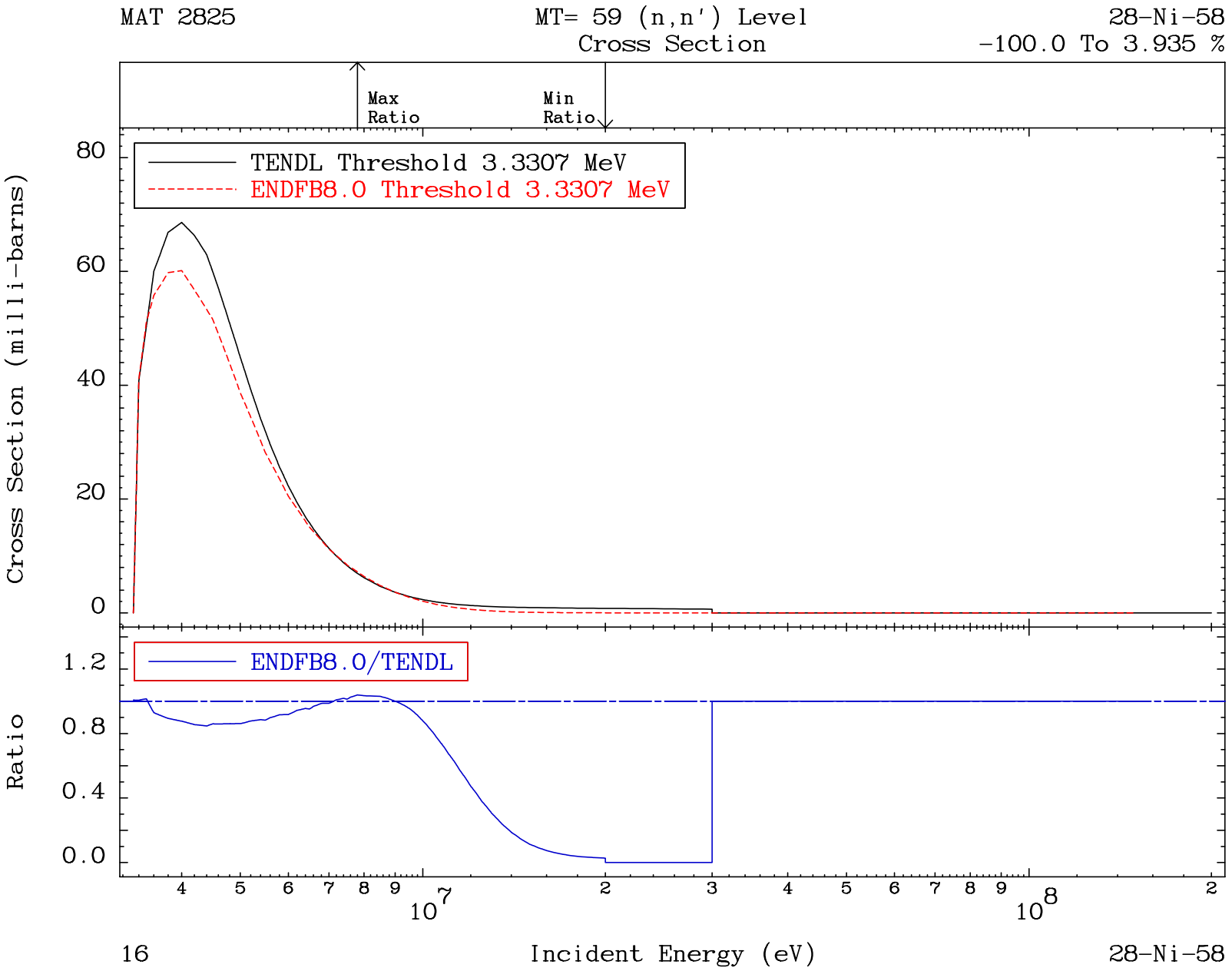

MAT 2825
MT= 54 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 1629. %
Max Ratio
Min Ratio
TENDL Threshold 2.9527 MeV
ENDFB8.0 Threshold 2.9523 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
20
10
0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
28-Ni-58

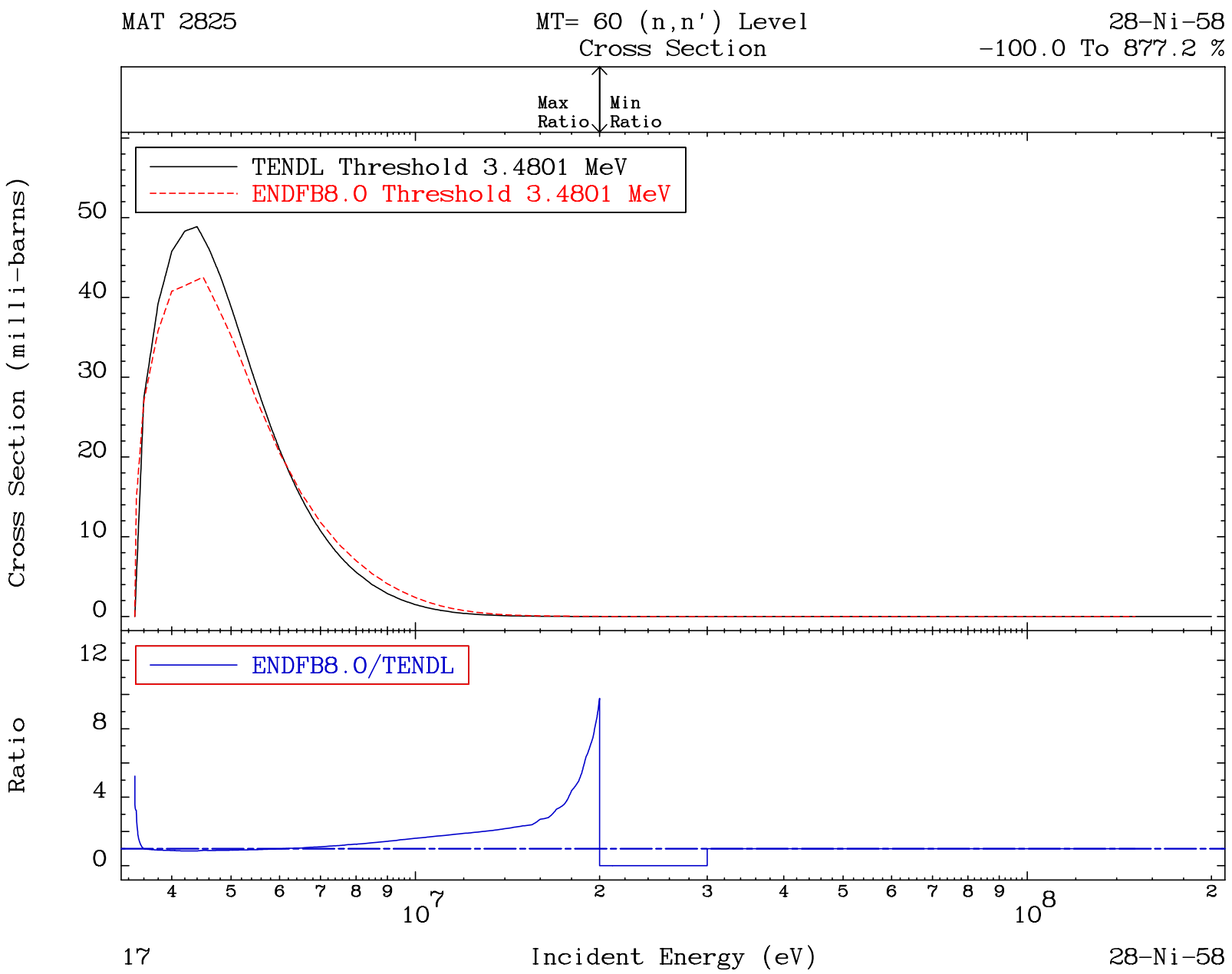

MAT 2825
MT= 55 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 4403. %
Max Ratio
Min Ratio
TENDL Threshold 2.9938 MeV
ENDFB8.0 Threshold 2.9938 MeV
Cross Section (milli-barns)
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
40
20
0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
12
Incident Energy (eV)
28-Ni-58

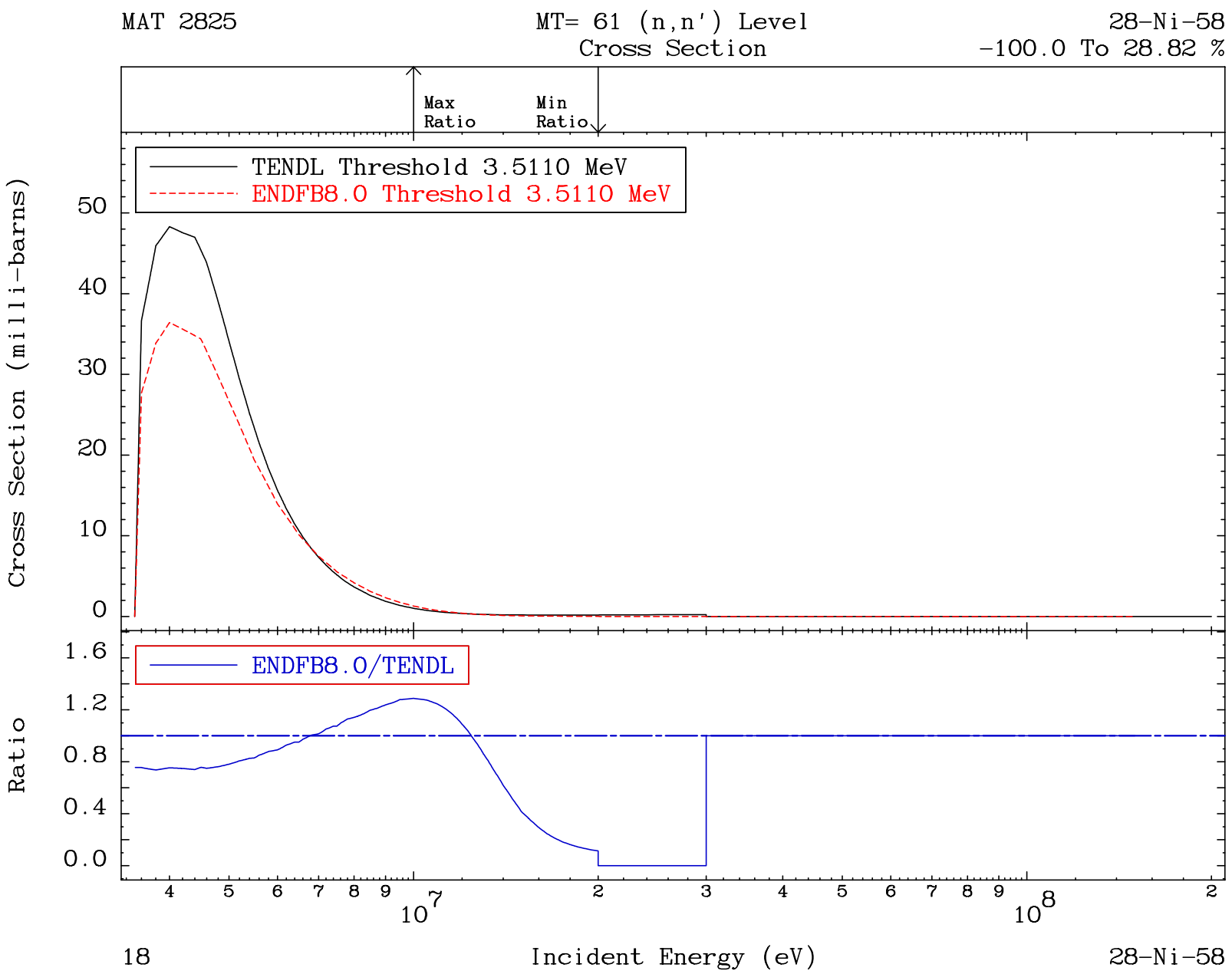

MAT 2825
MT= 56 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 1278. %
Max
Ratio
Min
Ratio
TENDL Threshold 3.0908 MeV
ENDFB8.0 Threshold 3.0908 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
18
12
6
0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
13
Incident Energy (eV)
28-Ni-58

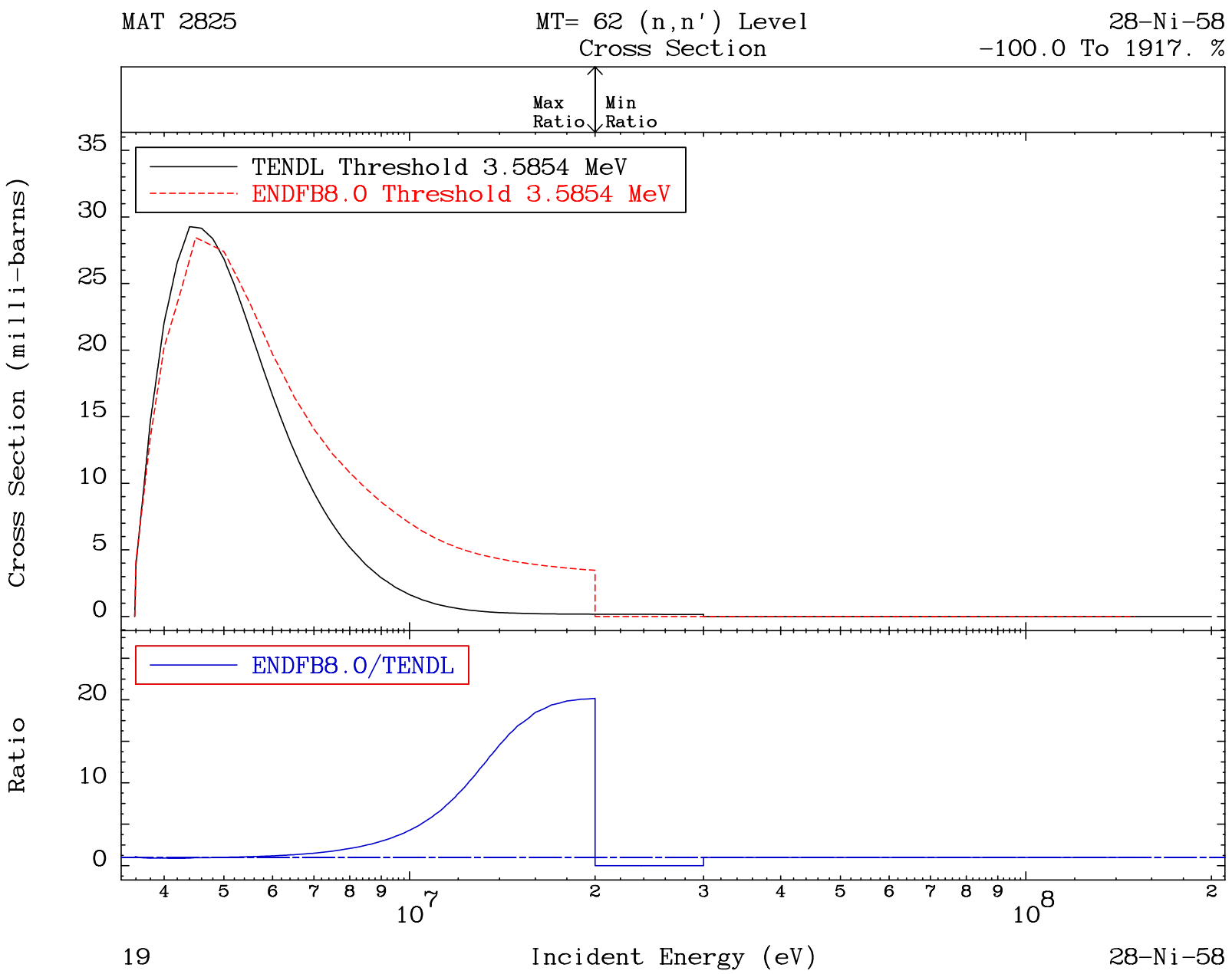

MAT 2825
MT= 57 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 23.34 %
Max
Ratio
Min
Ratio
TENDL Threshold 3.3205 MeV
ENDFB8.0 Threshold 3.3205 MeV
Cross Section (milli-barns)
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
1.6
1.2
0.8
0.4
0.0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
14
Incident Energy (eV)
28-Ni-58

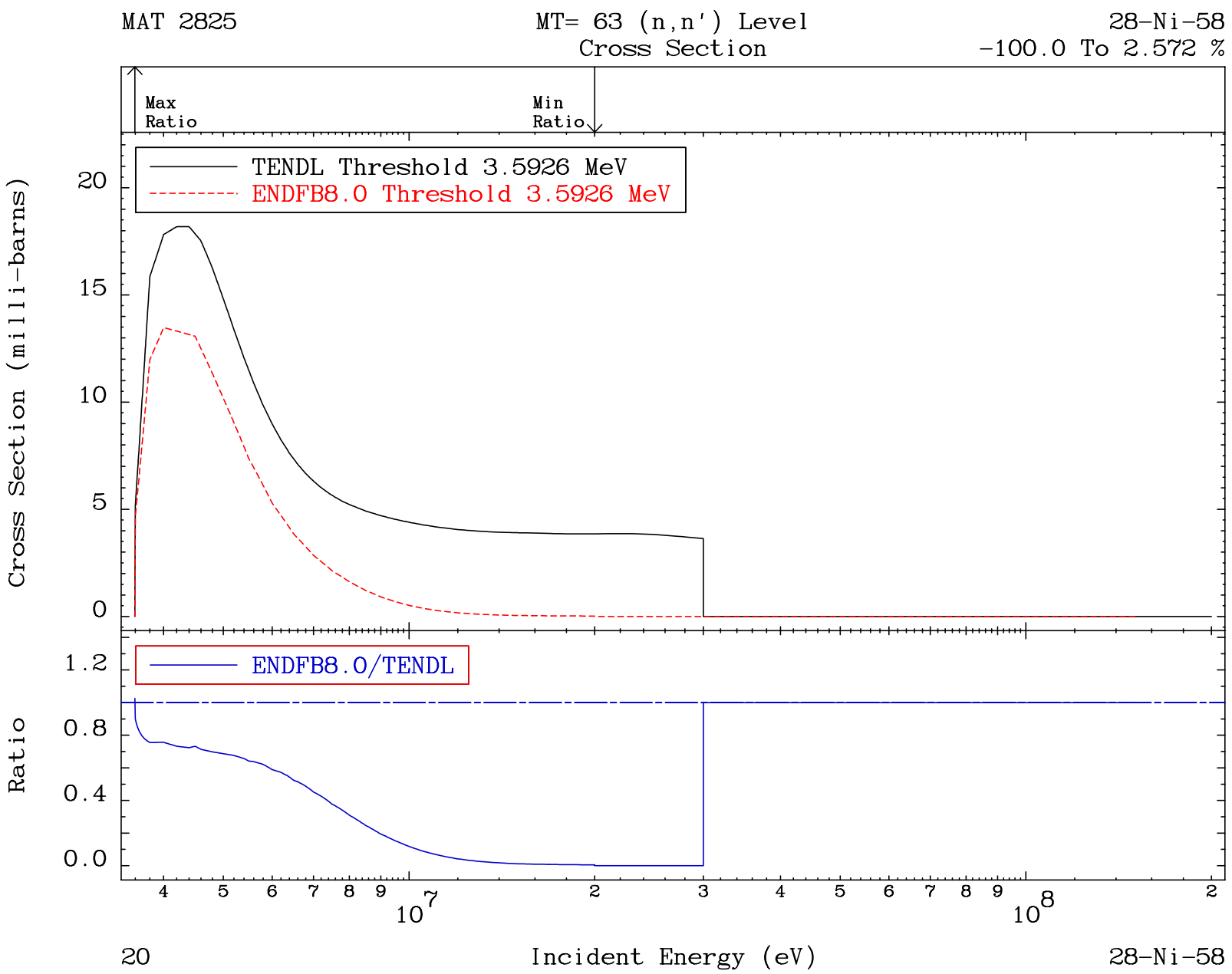

MAT 2825
MT= 58 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 20.38 %
Max Ratio
Min Ratio
TENDL Threshold 3.3260 MeV
ENDFB8.0 Threshold 3.3260 MeV
Cross Section (milli-barns)
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
1.2
0.8
0.4
0.0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
15
Incident Energy (eV)
28-Ni-58

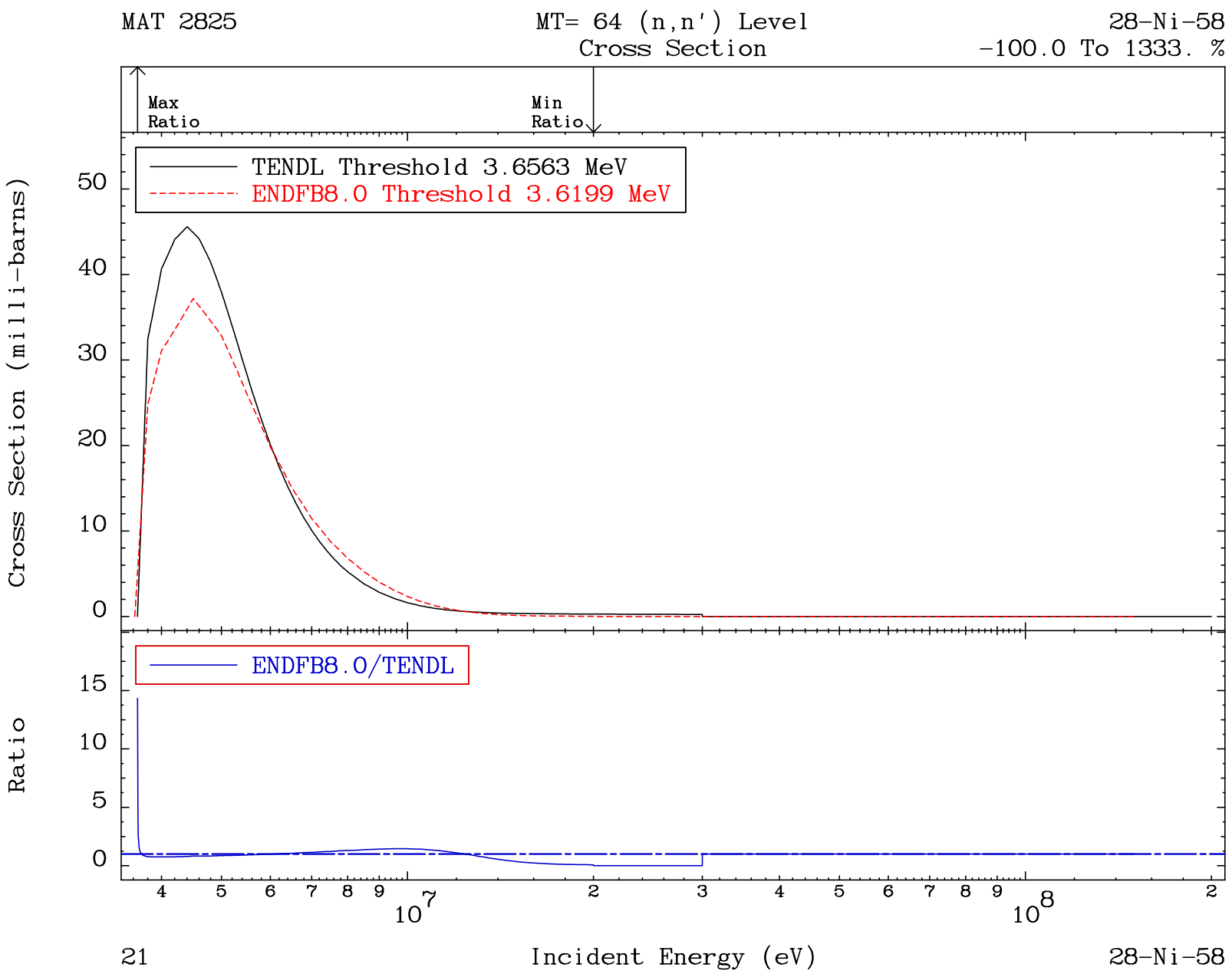

MAT 2825
MT= 59 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 3.935 %
Max Ratio
Min Ratio
TENDL Threshold 3.3307 MeV
ENDFB8.0 Threshold 3.3307 MeV
Cross Section (milli-barns)
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
1.2
0.8
0.4
0.0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
16
Incident Energy (eV)
28-Ni-58

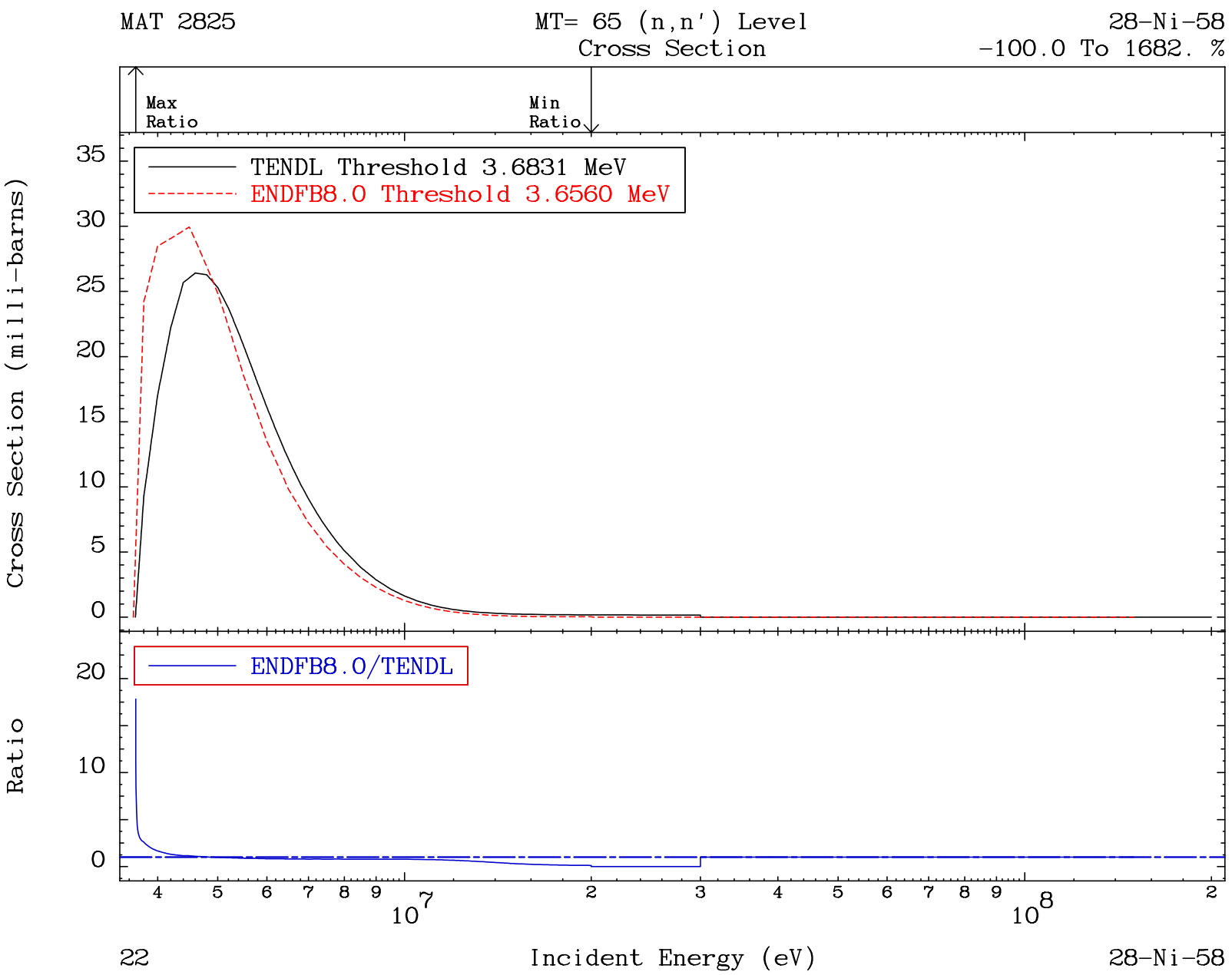

MAT 2825
MT= 60 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 877.2 %
Max Ratio
Min Ratio
TENDL Threshold 3.4801 MeV
ENDFB8.0 Threshold 3.4801 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
12
8
4
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
17
Incident Energy (eV)
28-Ni-58

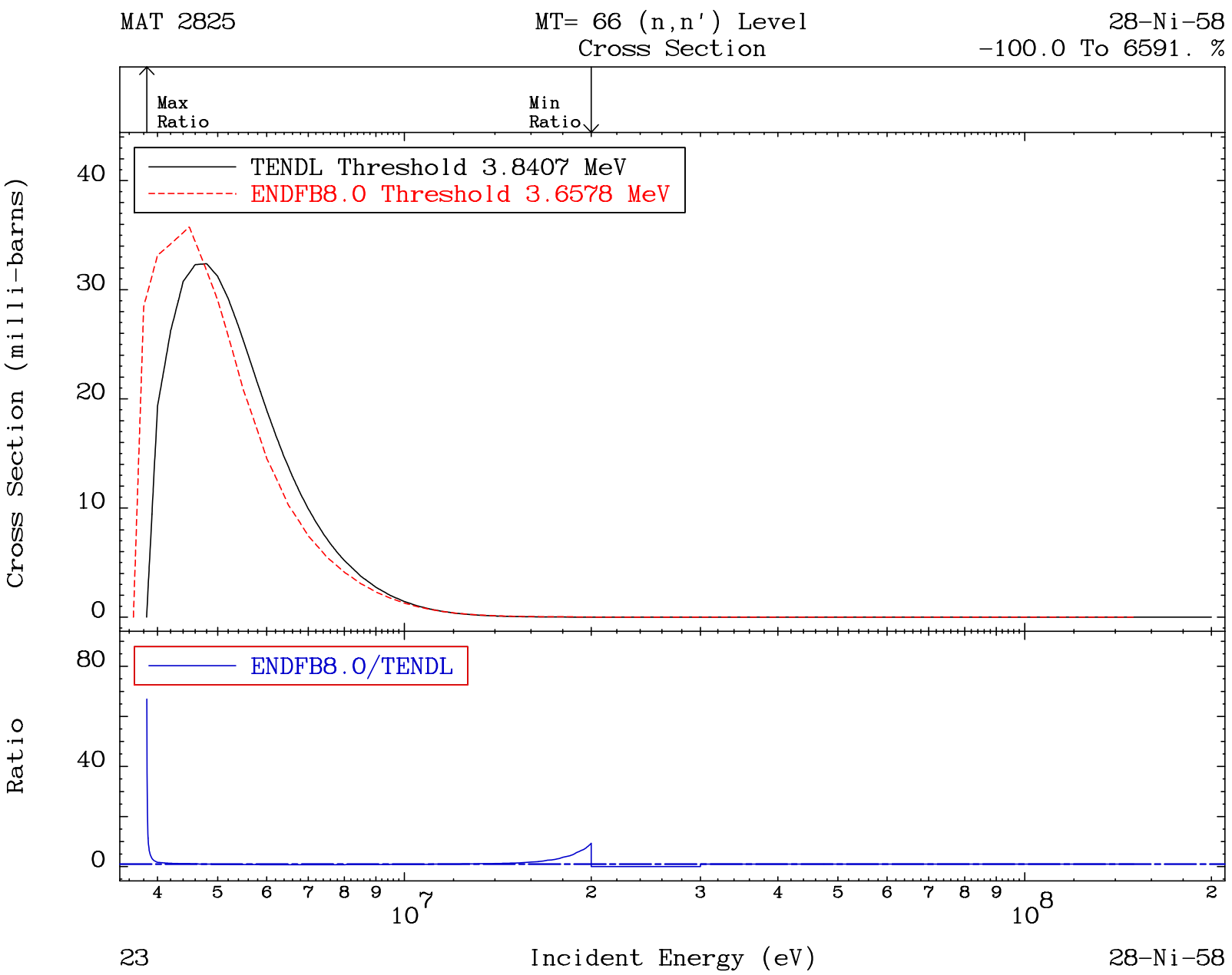

MAT 2825
MT= 61 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 28.82 %
Max Ratio
Min Ratio
TENDL Threshold 3.5110 MeV
ENDFB8.0 Threshold 3.5110 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
1.6
1.2
0.8
0.4
0.0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
18
Incident Energy (eV)
28-Ni-58

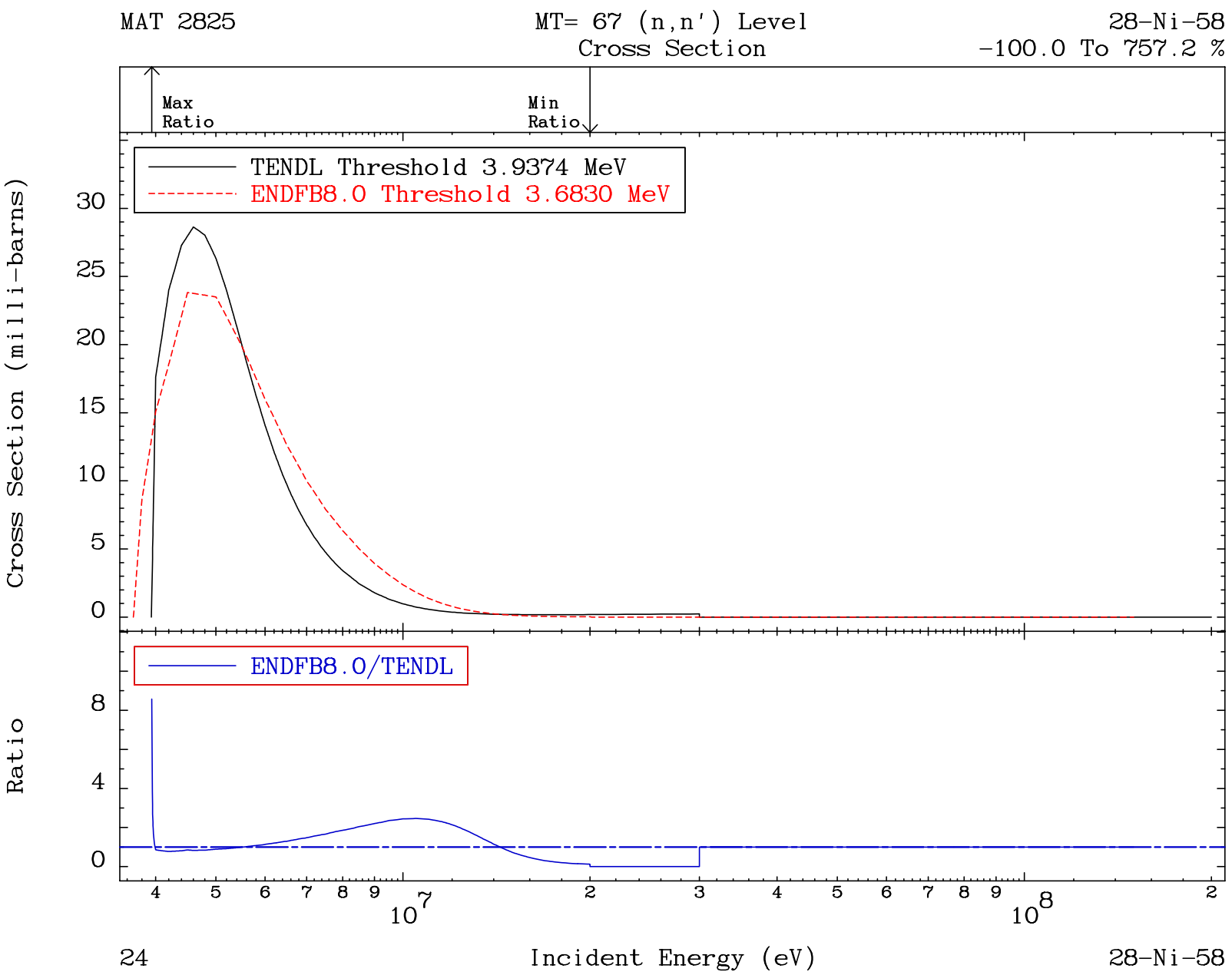

MAT 2825
MT= 62 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 1917. %
Max Ratio
Min Ratio
TENDL Threshold 3.5854 MeV
ENDFB8.0 Threshold 3.5854 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
20
10
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
28-Ni-58

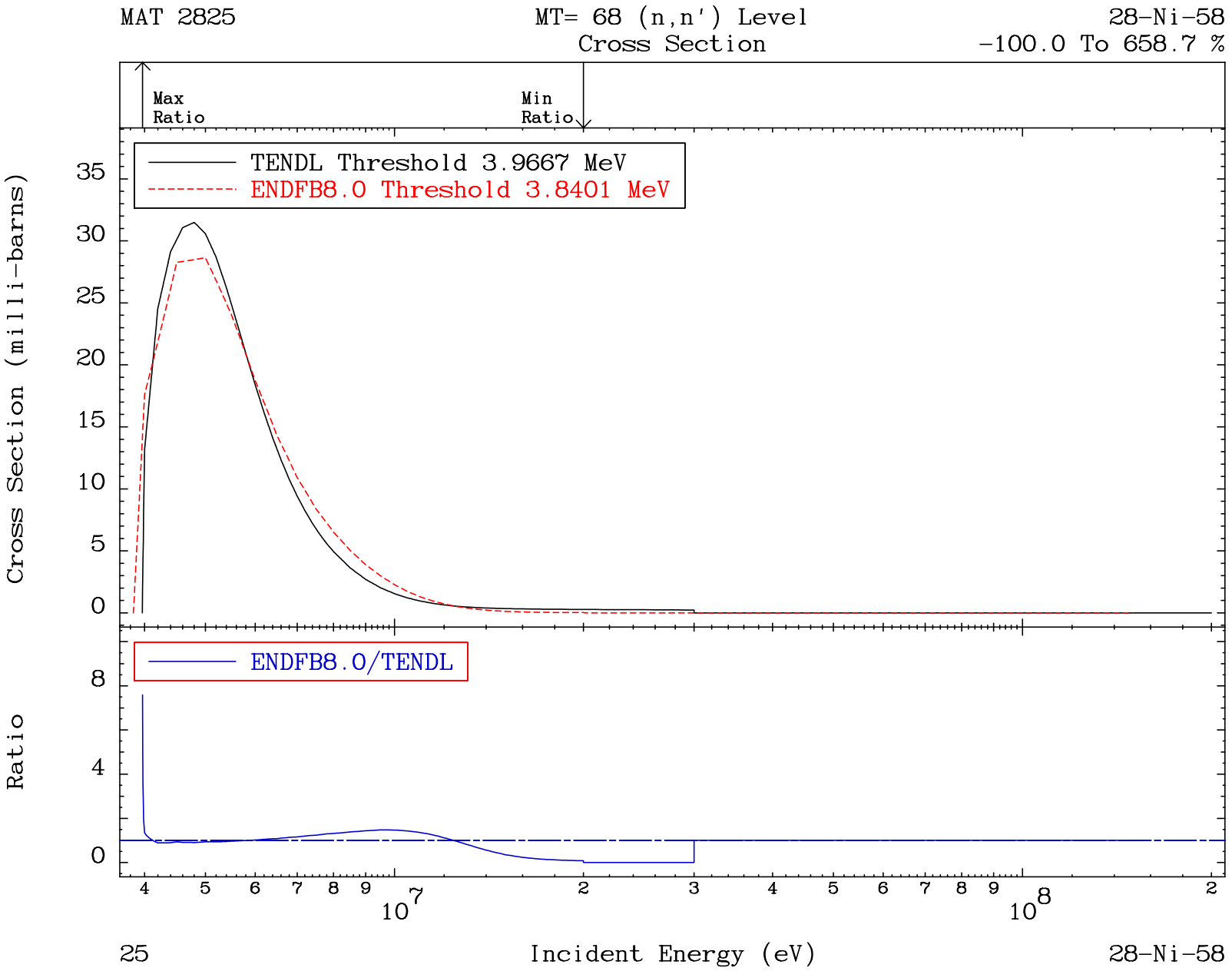

MAT 2825
MT= 63 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 2.572 %
Max
Ratio
Min
Ratio
TENDL Threshold 3.5926 MeV
ENDFB8.0 Threshold 3.5926 MeV
Cross Section (milli-barns)
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
1.2
0.8
0.4
0.0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
20
Incident Energy (eV)
28-Ni-58

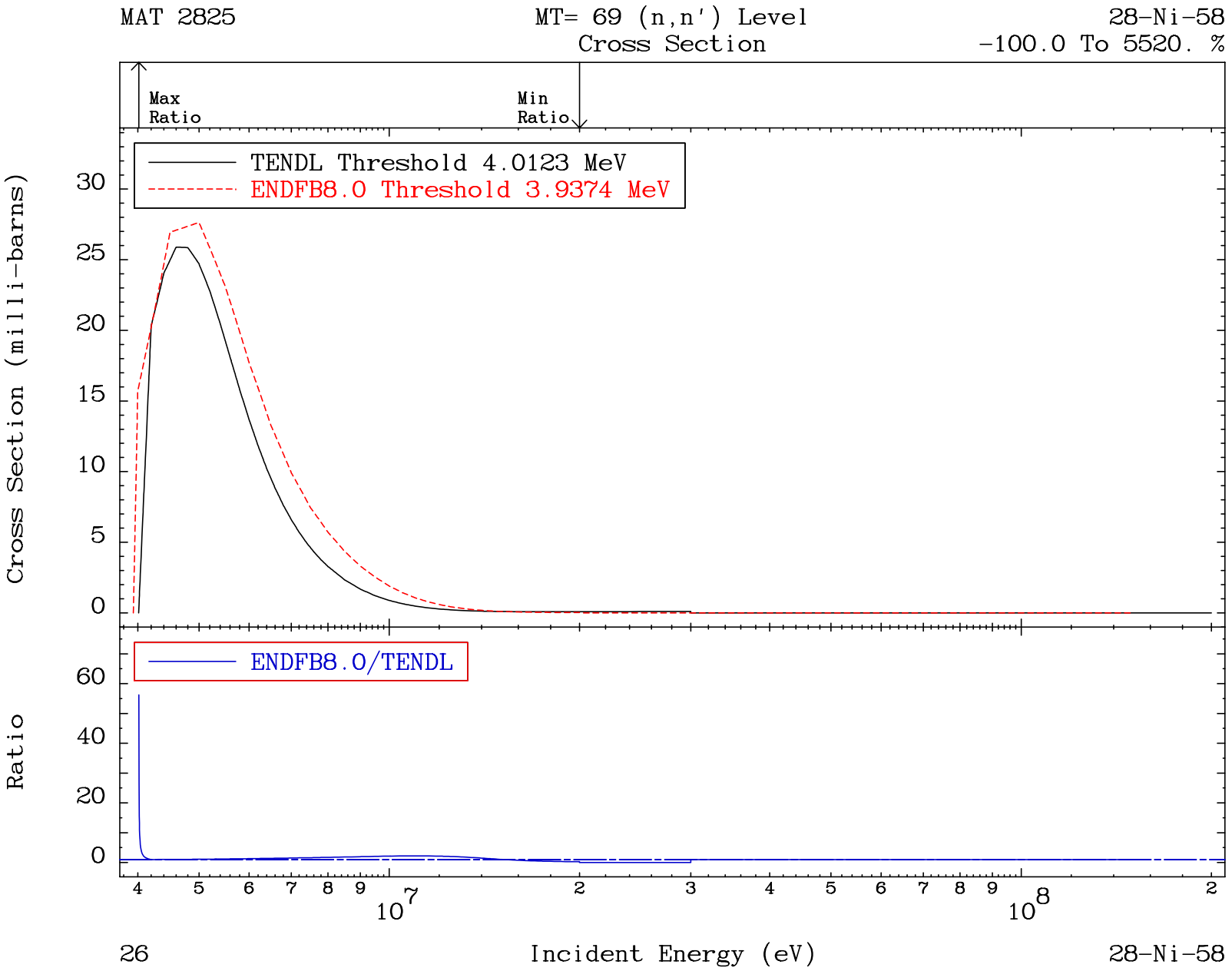

MAT 2825
MT= 64 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 1333. %
Max
Ratio
Min
Ratio
TENDL Threshold 3.6563 MeV
ENDFB8.0 Threshold 3.6199 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
15
10
5
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
21
Incident Energy (eV)
28-Ni-58

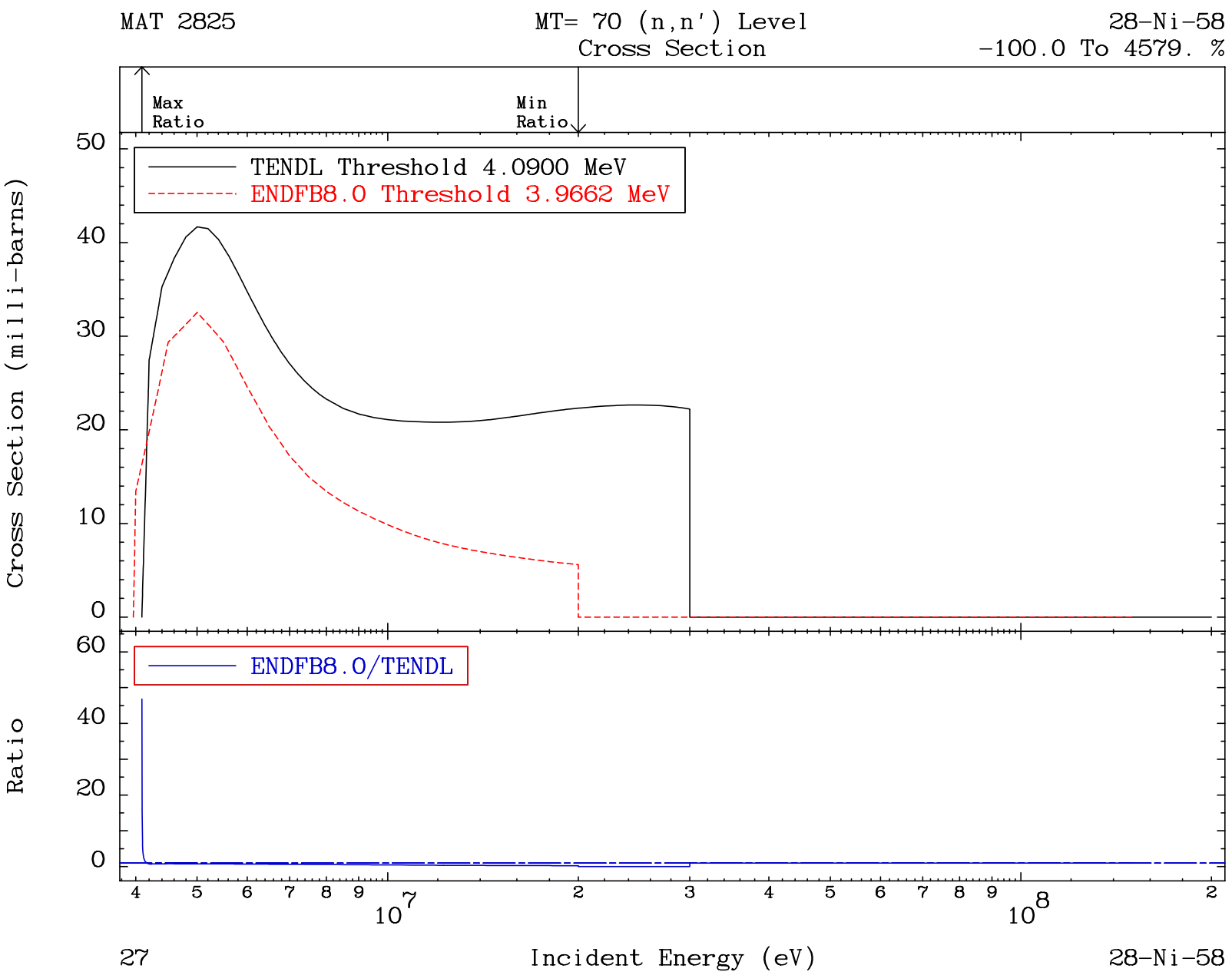

MAT 2825
MT= 65 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 1682. %
Max
Ratio
Min
Ratio
TENDL Threshold 3.6831 MeV
ENDFB8.0 Threshold 3.6560 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
20
10
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
28-Ni-58

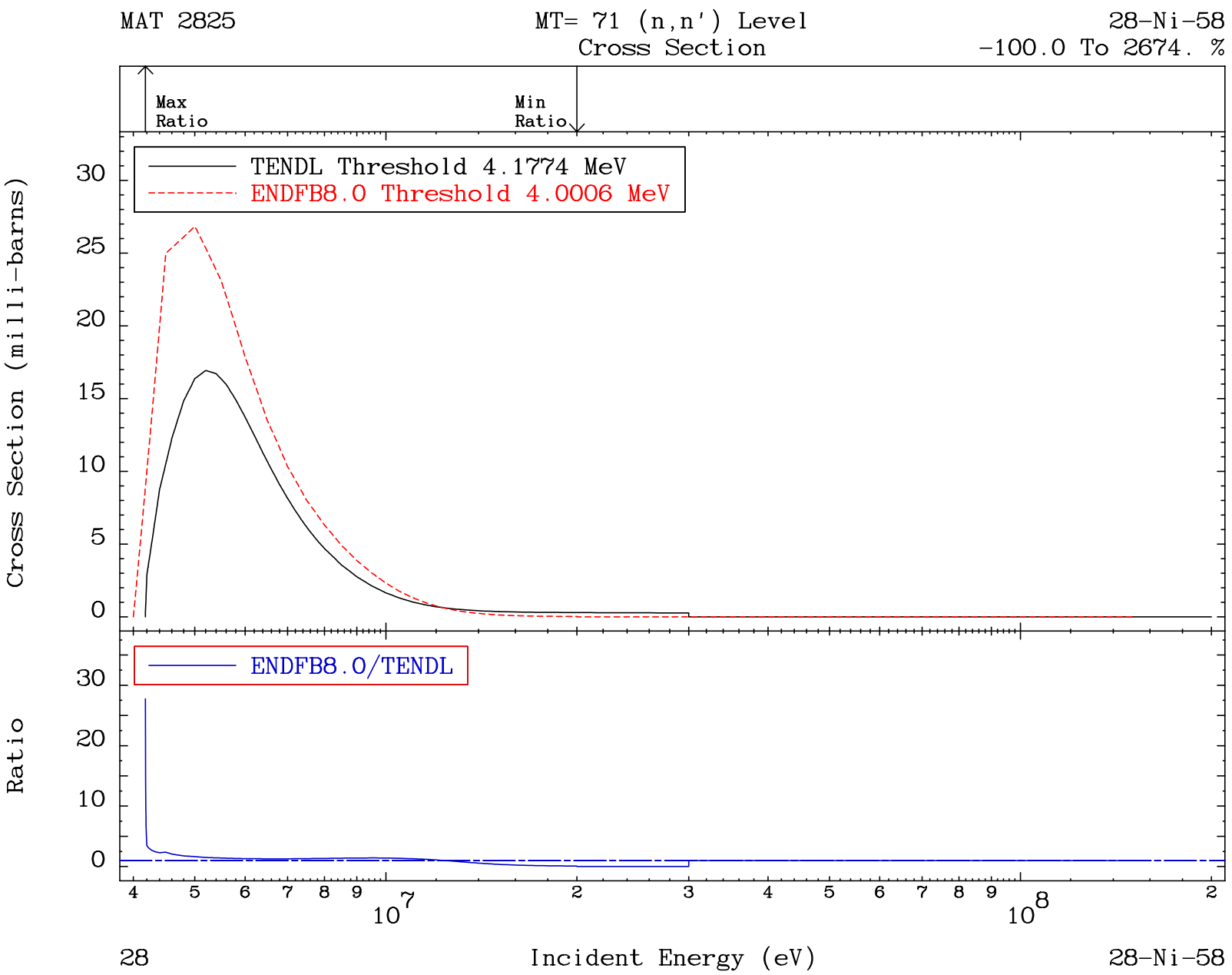

MAT 2825
MT= 66 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 6591. %
Max
Ratio
Min
Ratio
TENDL Threshold 3.8407 MeV
ENDFB8.0 Threshold 3.6578 MeV
Cross Section (milli-barns)
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
80
40
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
28-Ni-58

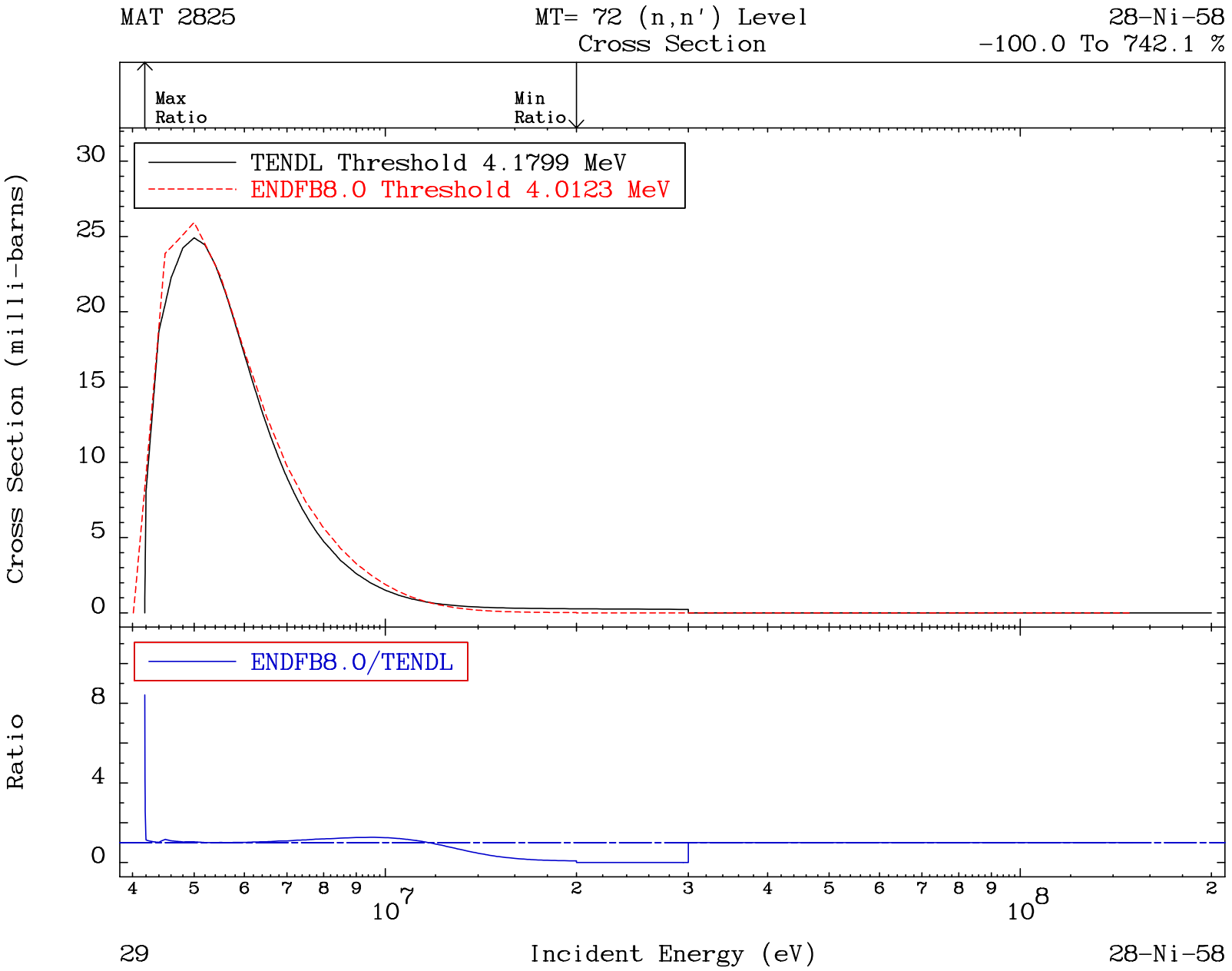

MAT 2825
MT= 67 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 757.2 %
Max
Ratio
Min
Ratio
TENDL Threshold 3.9374 MeV
ENDFB8.0 Threshold 3.6830 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
8
4
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
28-Ni-58

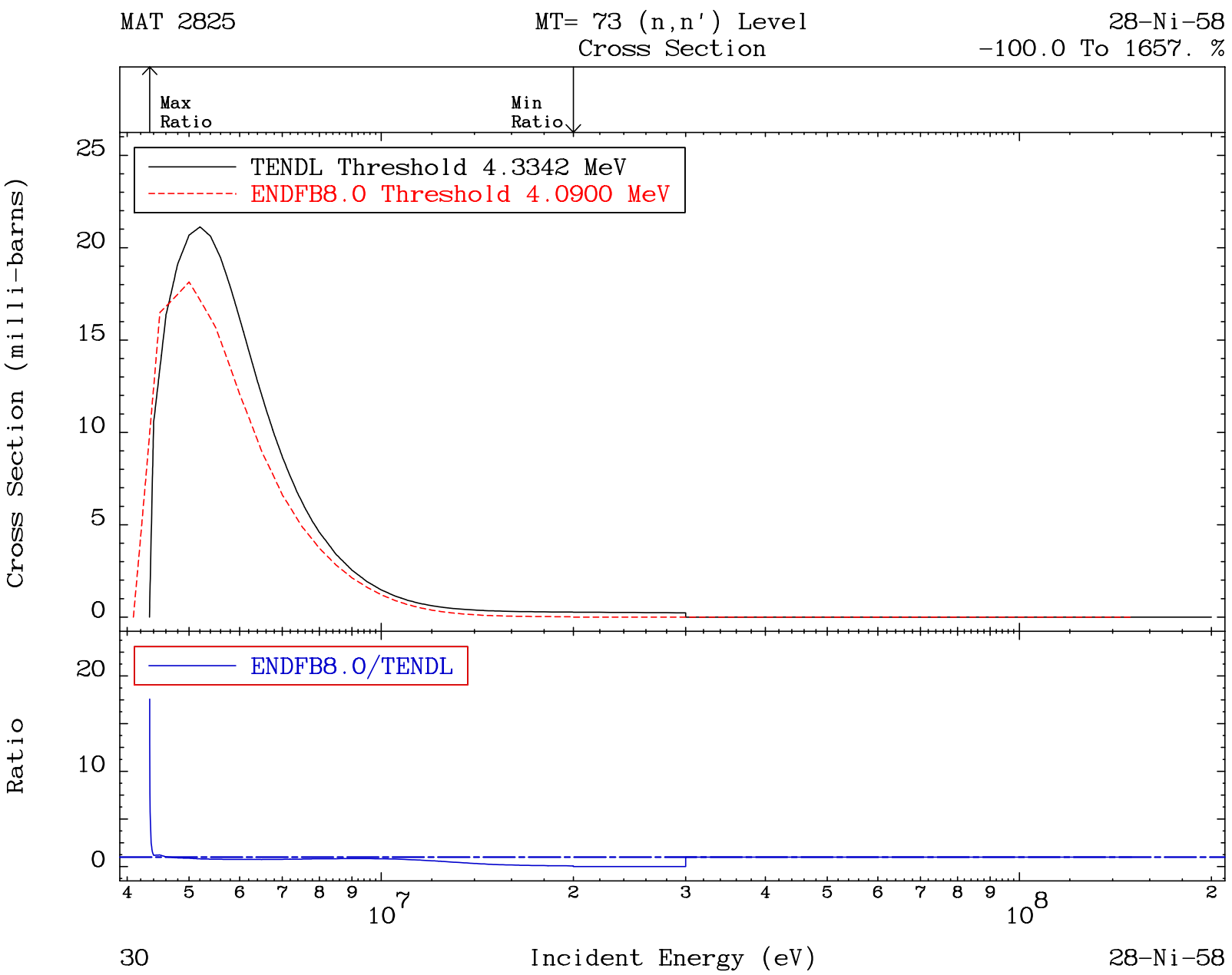

MAT 2825
MT= 68 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 658.7 %
Max
Ratio
Min
Ratio
TENDL Threshold 3.9667 MeV
ENDFB8.0 Threshold 3.8401 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
8
4
0
4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
25
Incident Energy (eV)
28-Ni-58

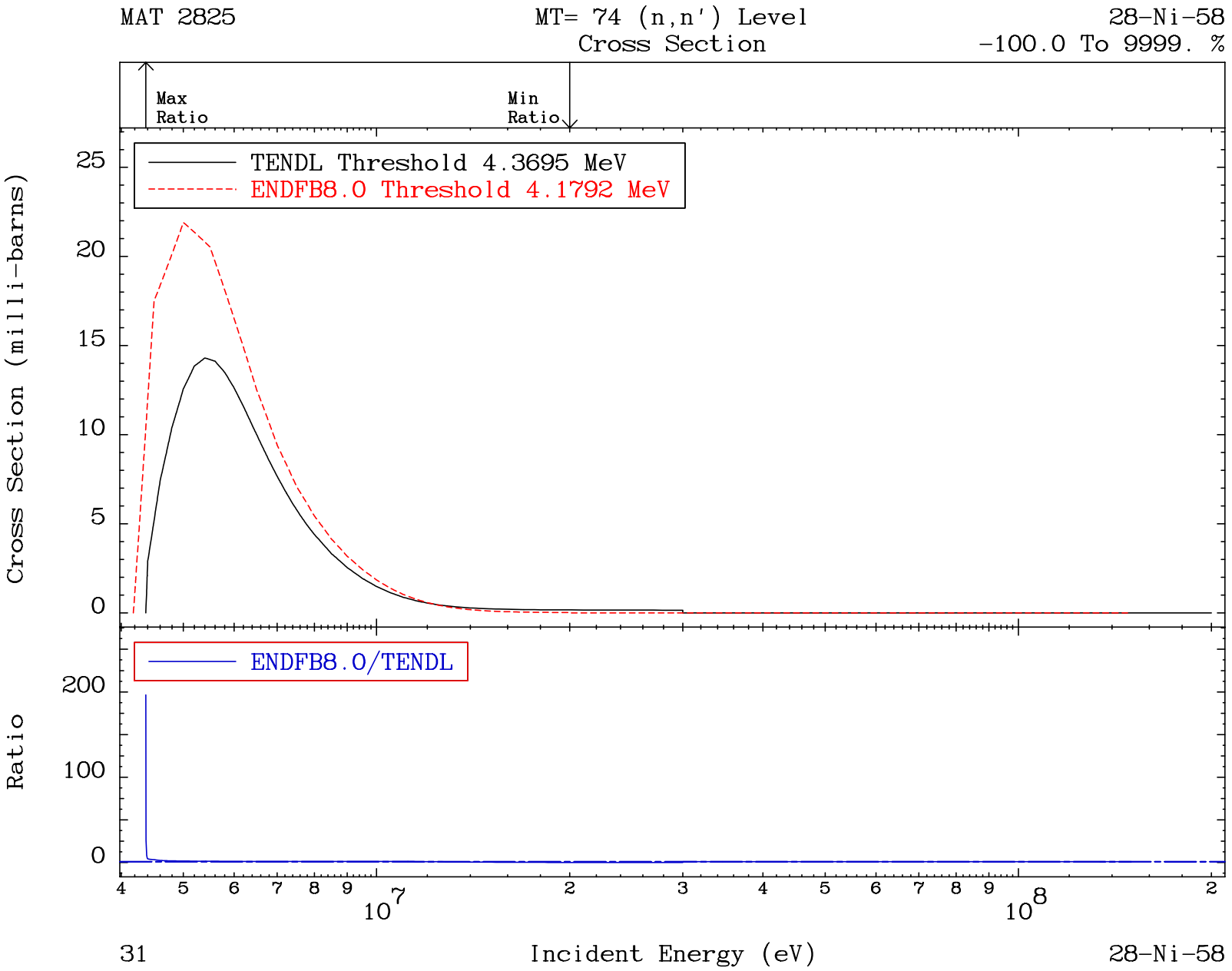

MAT 2825
MT= 69 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 5520. %
Max Ratio
Min Ratio
TENDL Threshold 4.0123 MeV
ENDFB8.0 Threshold 3.9374 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
60
40
20
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
28-Ni-58

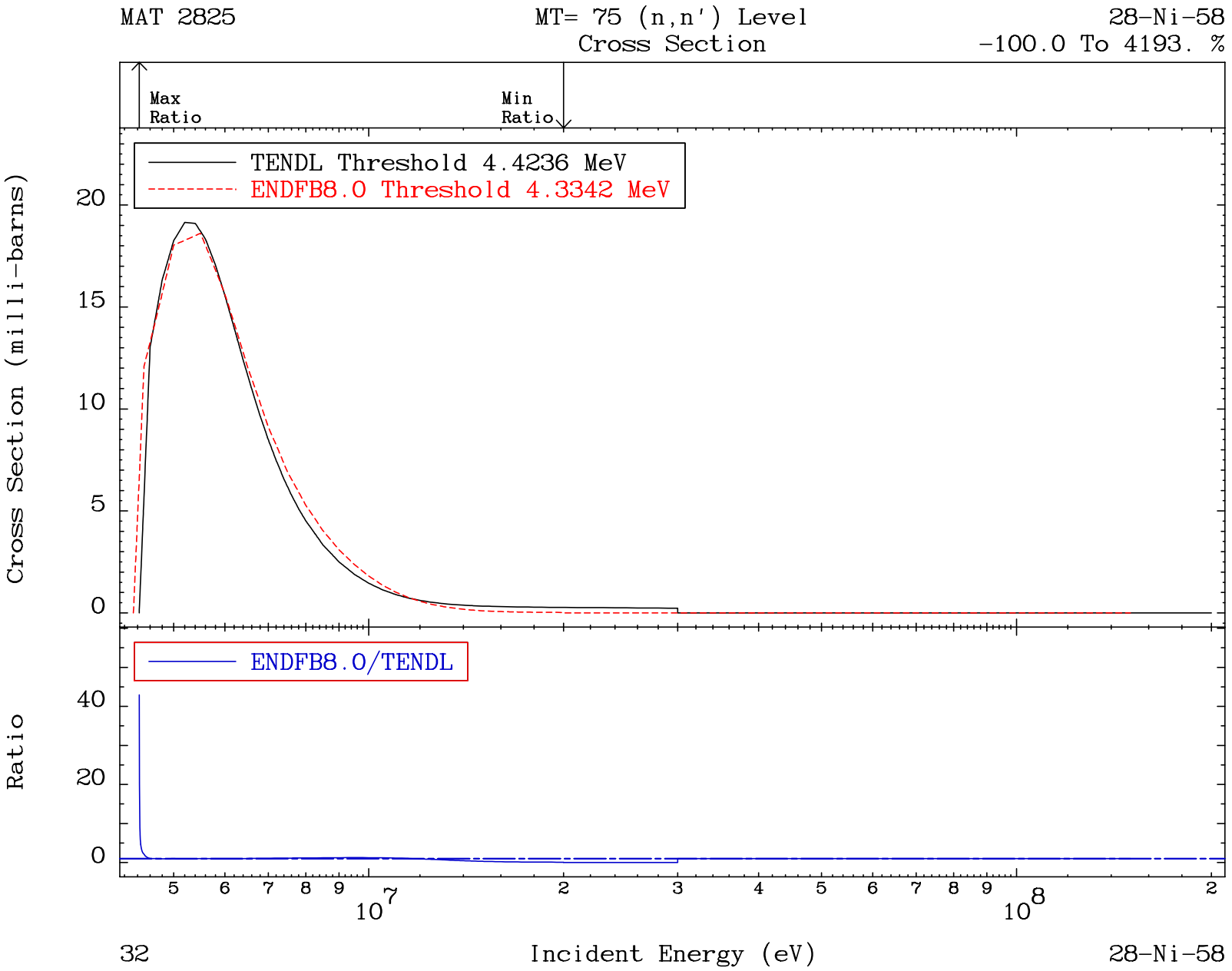

MAT 2825
MT= 70 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 4579. %
Max
Ratio
Min
Ratio
TENDL Threshold 4.0900 MeV
ENDFB8.0 Threshold 3.9662 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
60
40
20
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
28-Ni-58

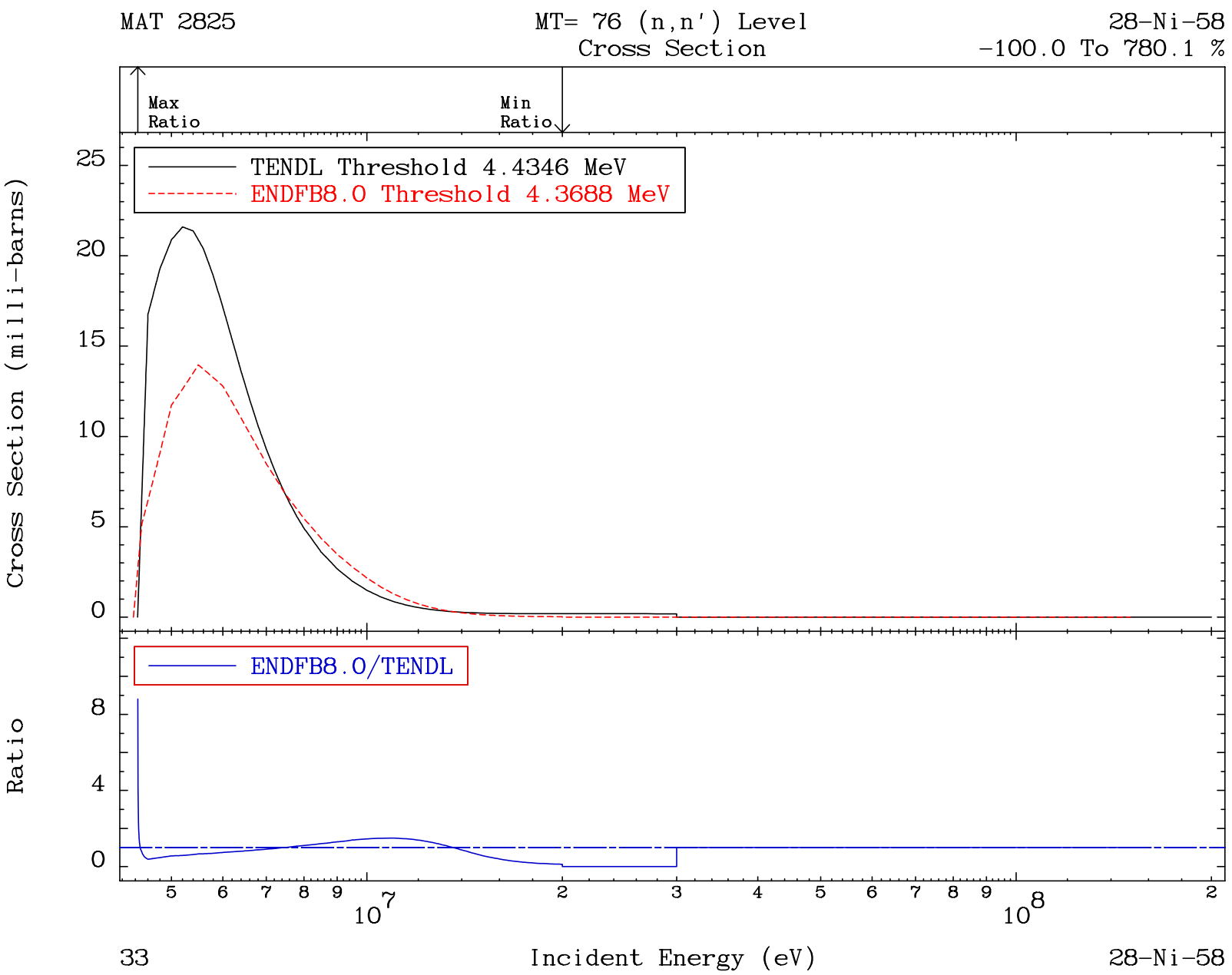

MAT 2825
MT= 71 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 2674. %
Max
Ratio
Min
Ratio
TENDL Threshold 4.1774 MeV
ENDFB8.0 Threshold 4.0006 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
30
20
10
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
28-Ni-58

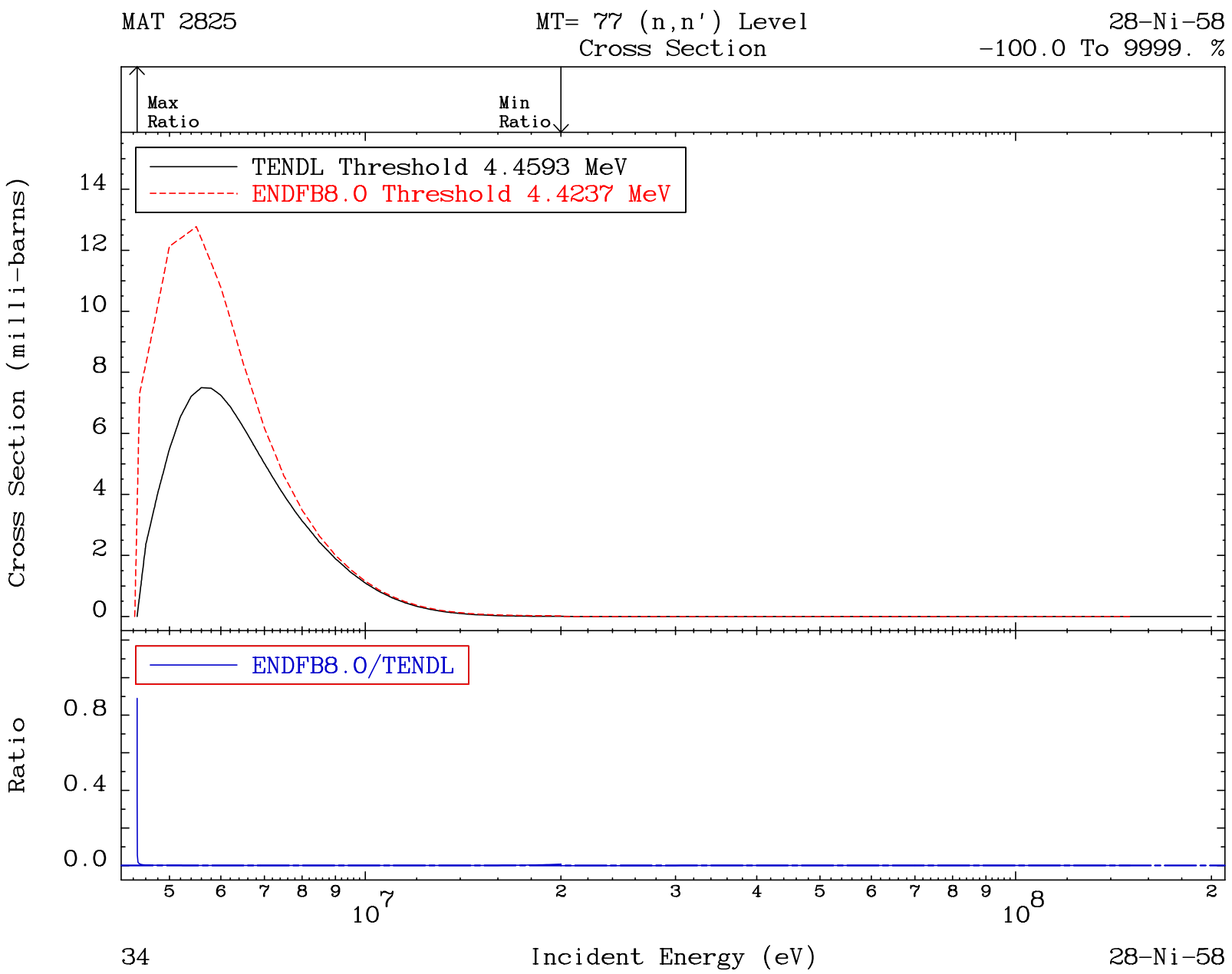

MAT 2825
MT= 72 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 742.1 %
Max
Ratio
Min
Ratio
TENDL Threshold 4.1799 MeV
ENDFB8.0 Threshold 4.0123 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
8
4
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
28-Ni-58

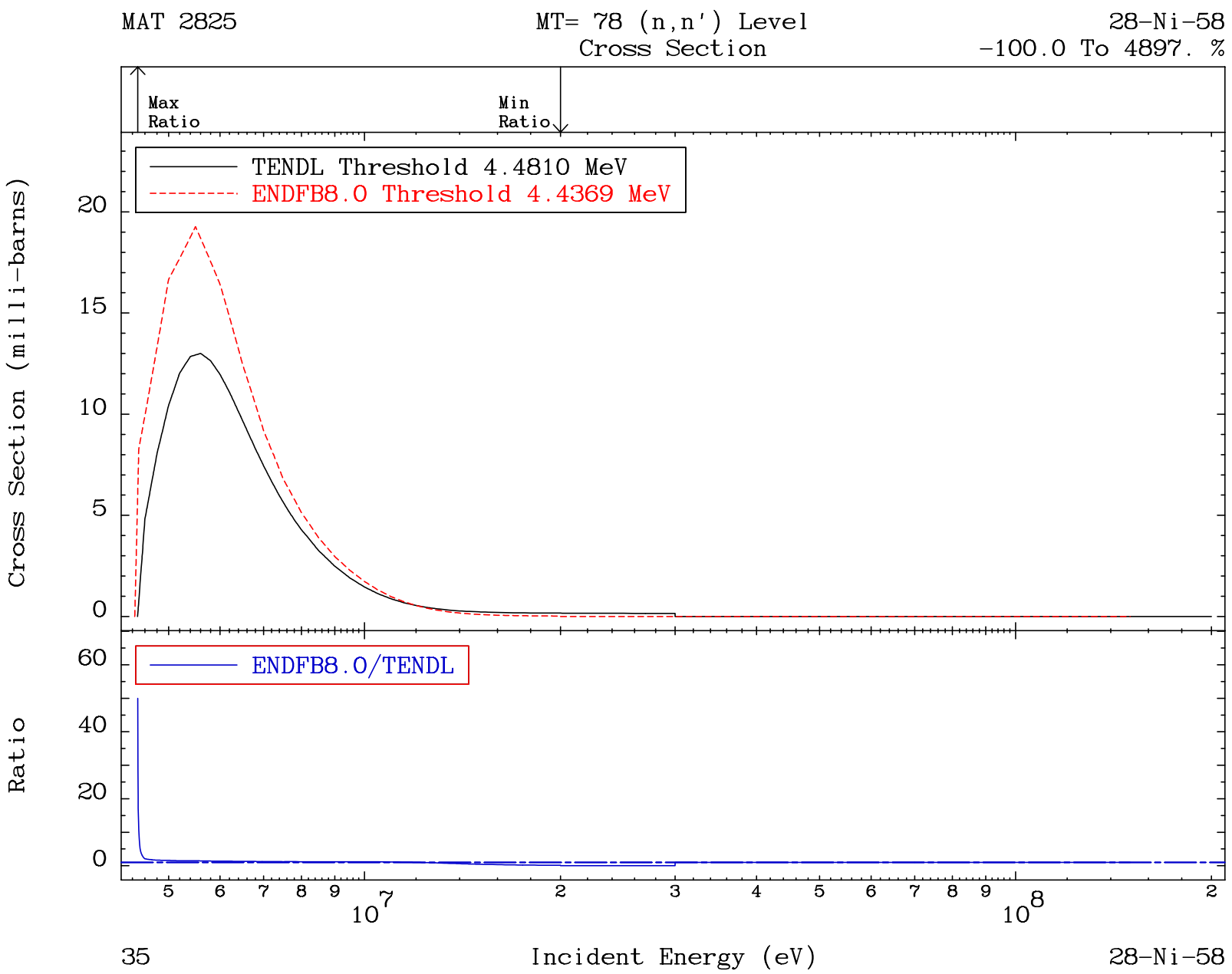

MAT 2825
MT= 73 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 1657. %
Max
Ratio
Min
Ratio
TENDL Threshold 4.3342 MeV
ENDFB8.0 Threshold 4.0900 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
20
10
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
28-Ni-58

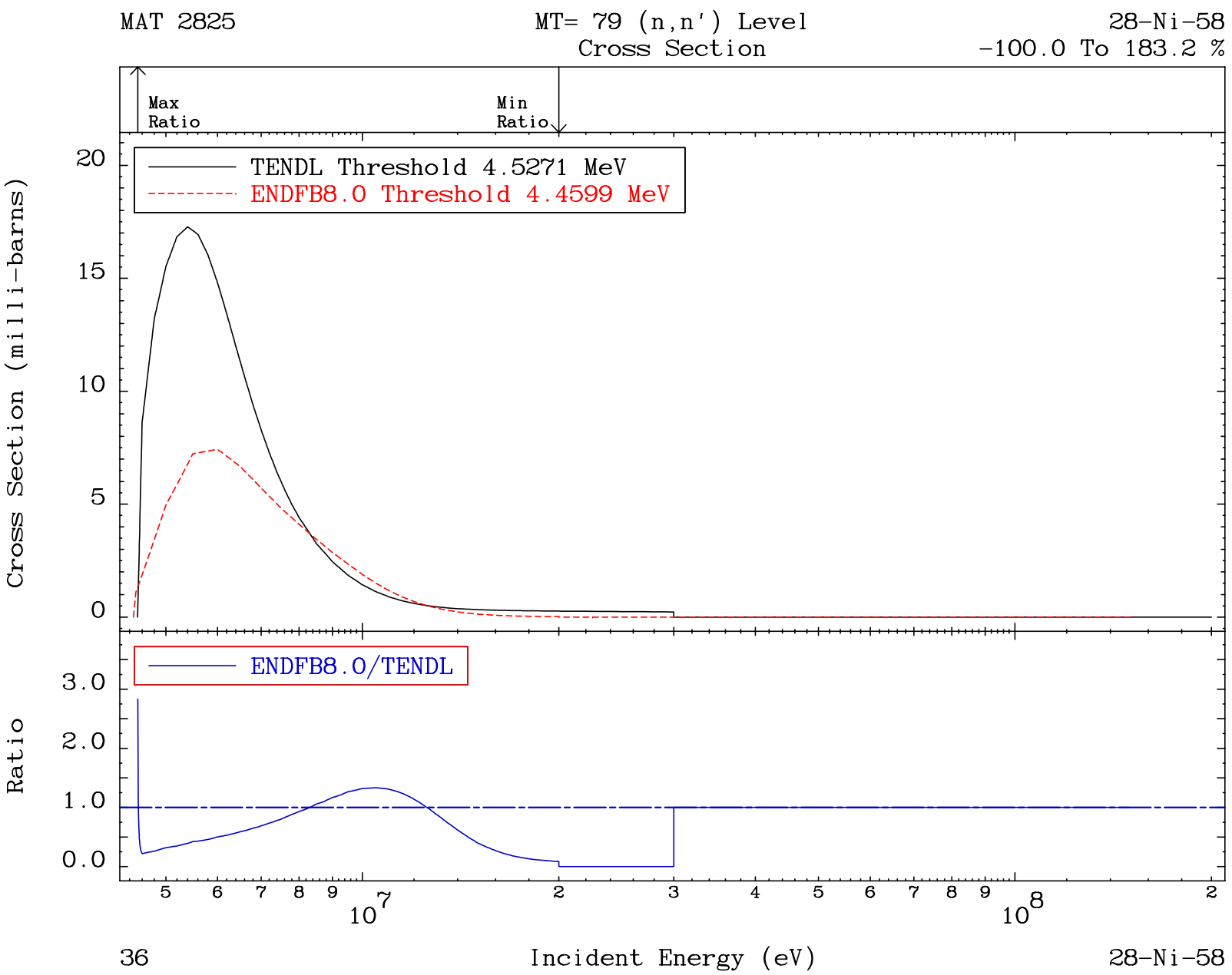

MAT 2825
MT= 74 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 9999. %
Max
Ratio
Min
Ratio
TENDL Threshold 4.3695 MeV
ENDFB8.0 Threshold 4.1792 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
200
100
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
28-Ni-58

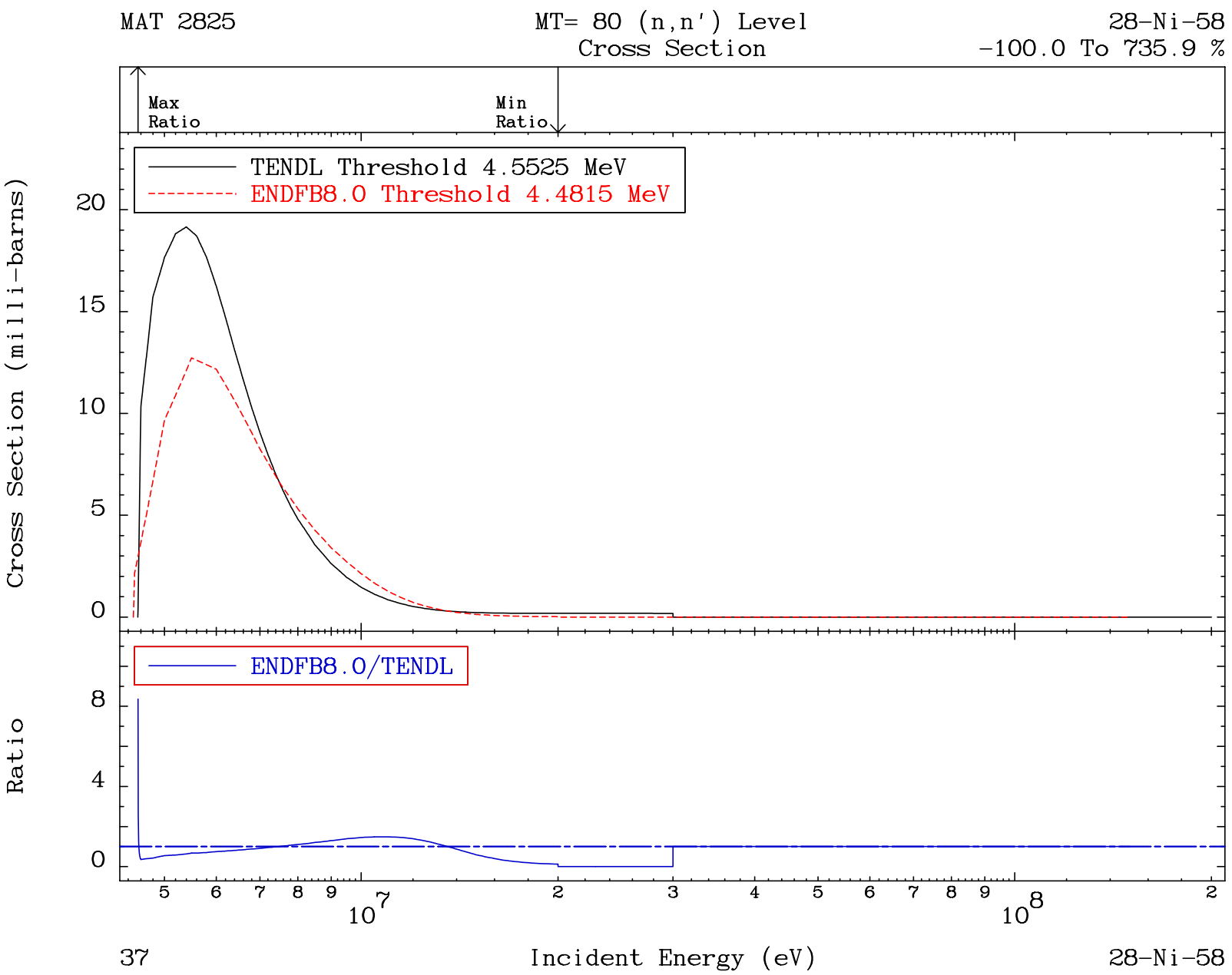

MAT 2825
MT= 75 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 4193. %
Max
Ratio
Min
Ratio
TENDL Threshold 4.4236 MeV
ENDFB8.0 Threshold 4.3342 MeV
Cross Section (milli-barns)
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
40
20
0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
28-Ni-58

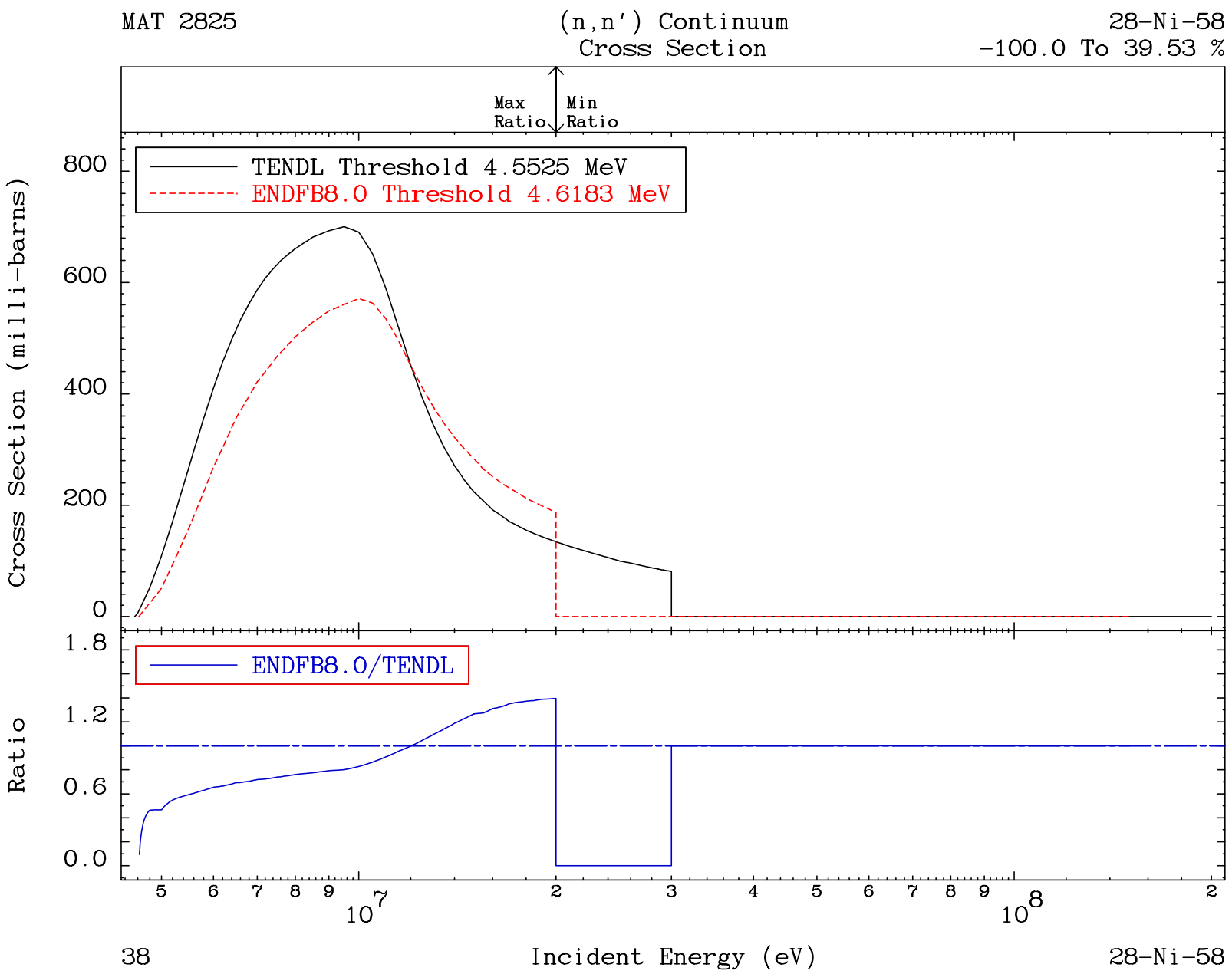

MAT 2825
MT= 76 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 780.1 %
Max
Ratio
Min
Ratio
TENDL Threshold 4.4346 MeV
ENDFB8.0 Threshold 4.3688 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
8
4
0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
28-Ni-58

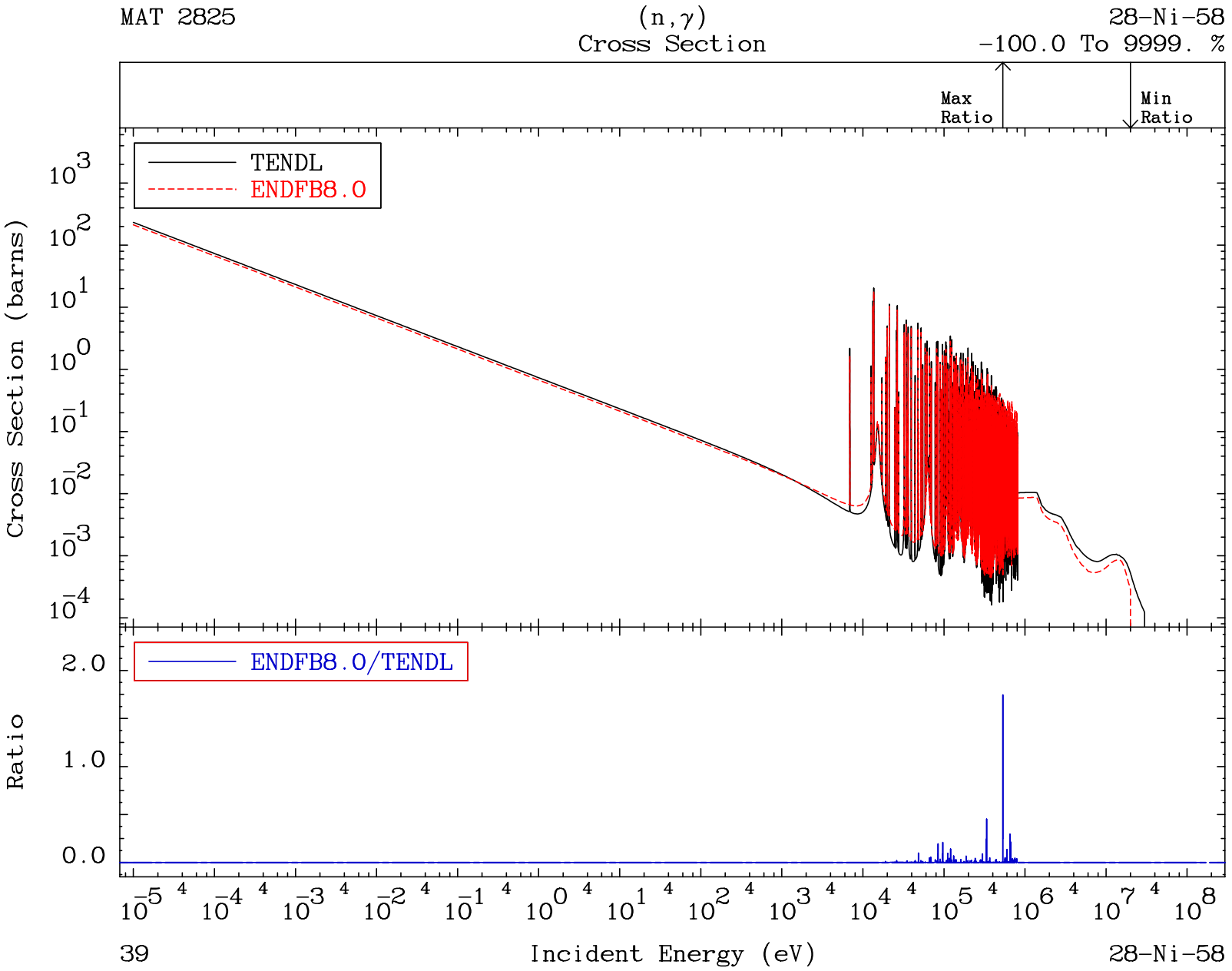

MAT 2825
MT= 77 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 9999. %
Max
Ratio
Min
Ratio
TENDL Threshold 4.4593 MeV
ENDFB8.0 Threshold 4.4237 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
ENDFB8.0/TENDL
Ratio
0.8
0.4
0.0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
34
Incident Energy (eV)
28-Ni-58

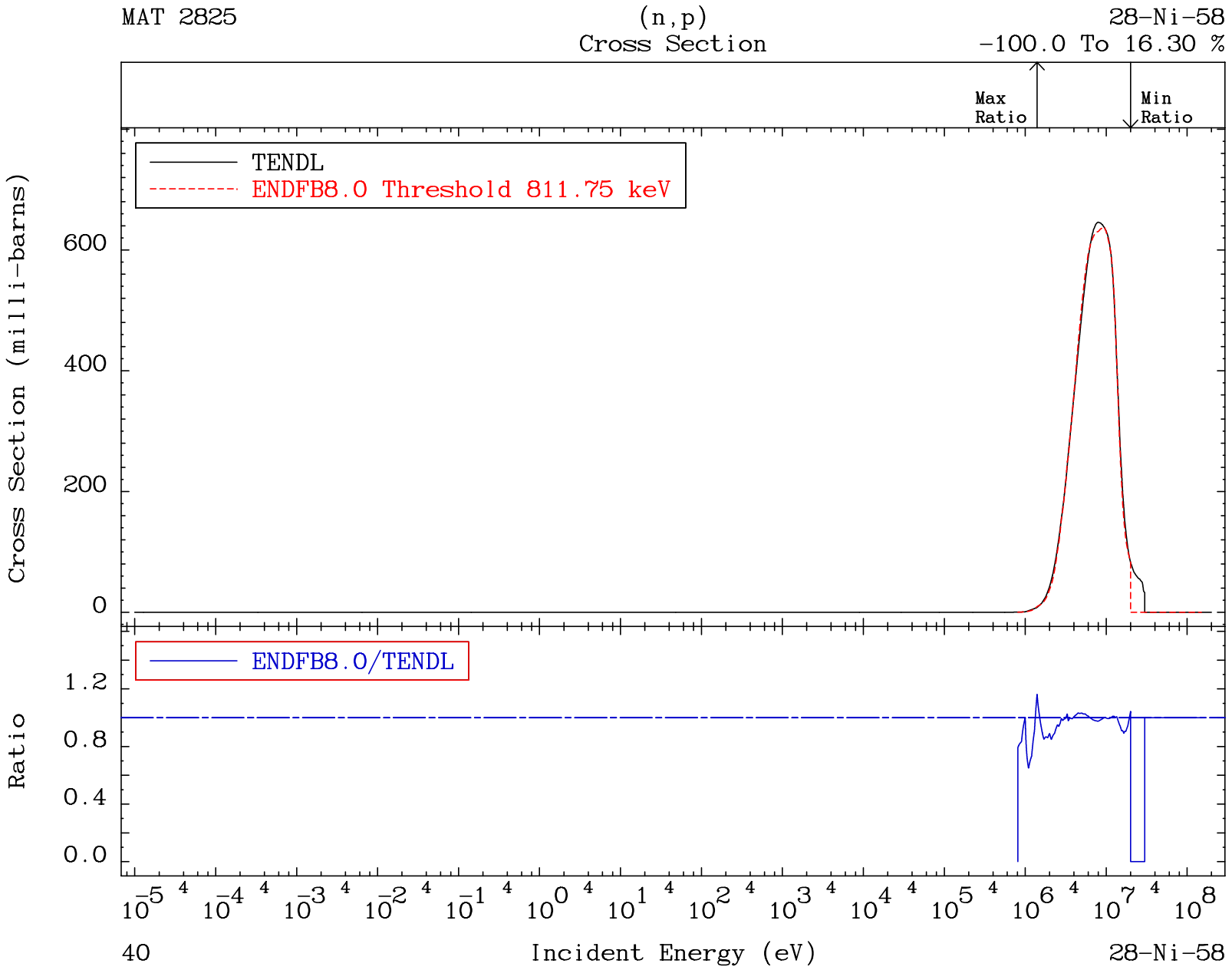

MAT 2825
MT= 78 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 4897. %
Max
Ratio
Min
Ratio
TENDL Threshold 4.4810 MeV
ENDFB8.0 Threshold 4.4369 MeV
Cross Section (milli-barns)
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
60
40
20
0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
28-Ni-58

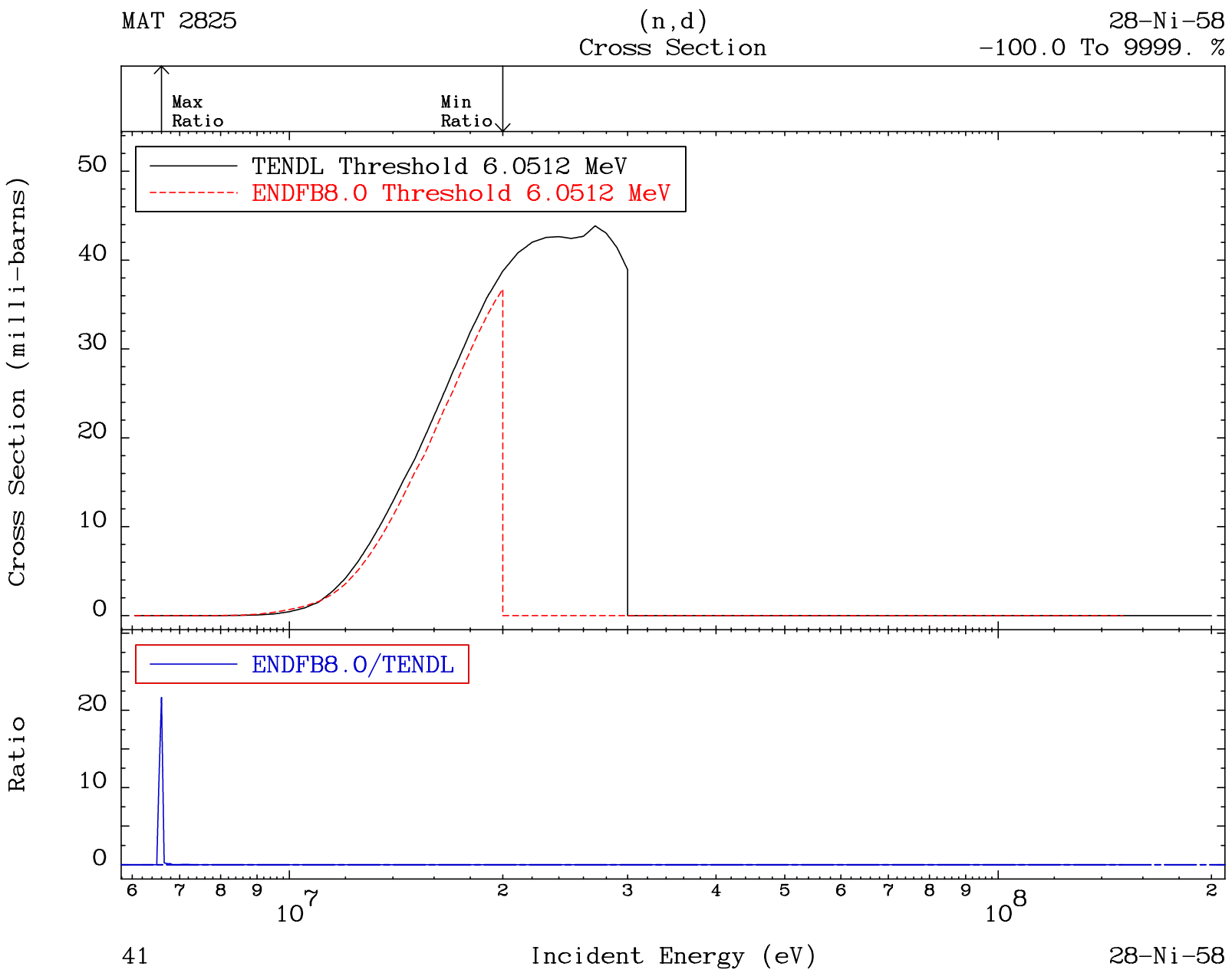

MAT 2825
MT= 79 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 183.2 %
Max
Ratio
Min
Ratio
TENDL Threshold 4.5271 MeV
ENDFB8.0 Threshold 4.4599 MeV
Cross Section (milli-barns)
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
3.0
2.0
1.0
0.0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
28-Ni-58

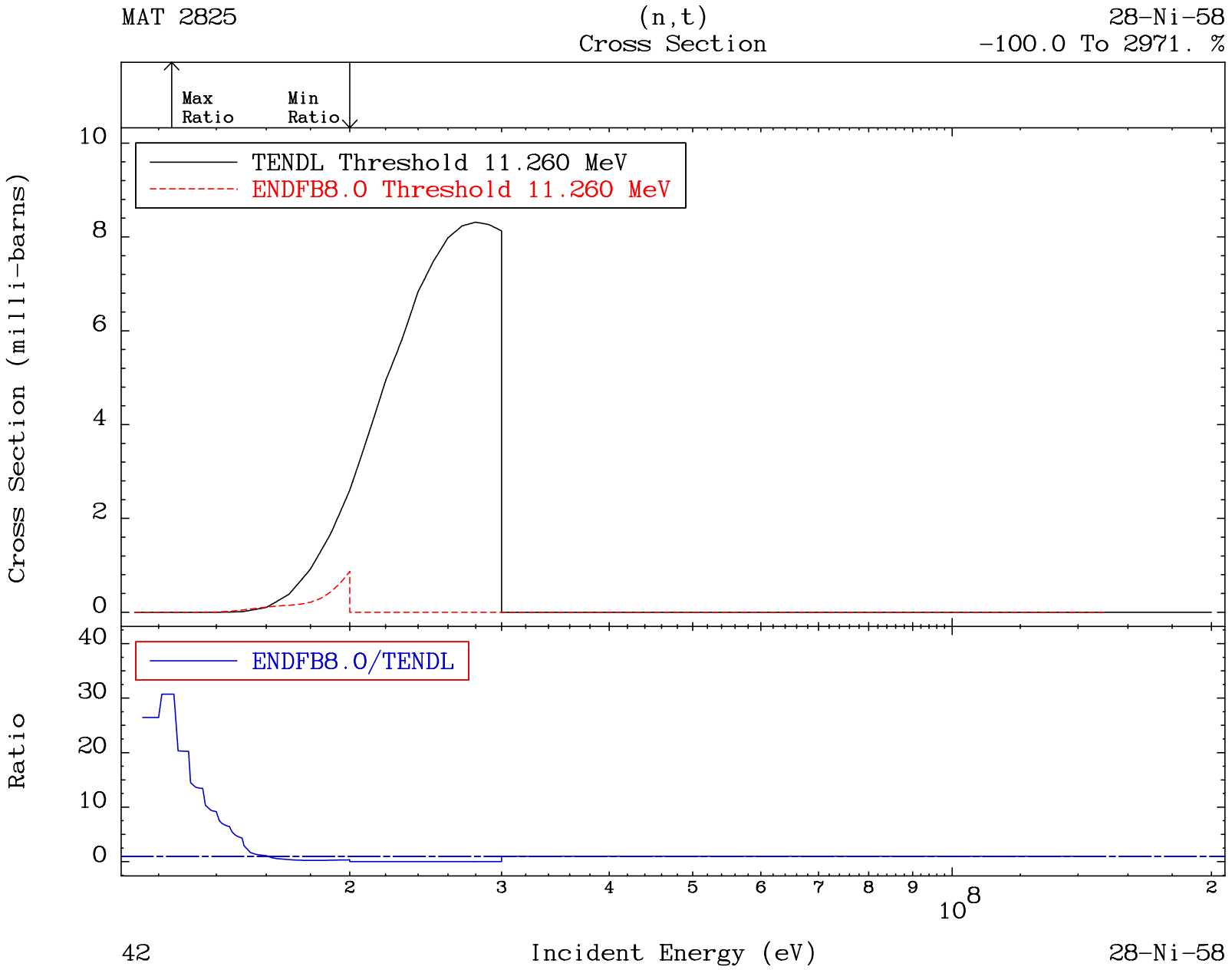

MAT 2825
MT= 80 (n,n') Level
Cross Section
28-Ni-58
-100.0 To 735.9 %
Max
Ratio
Min
Ratio
TENDL Threshold 4.5525 MeV
ENDFB8.0 Threshold 4.4815 MeV
Cross Section (milli-barns)
20
15
10
5
0
ENDFB8.0/TENDL
Ratio
8
4
0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
28-Ni-58

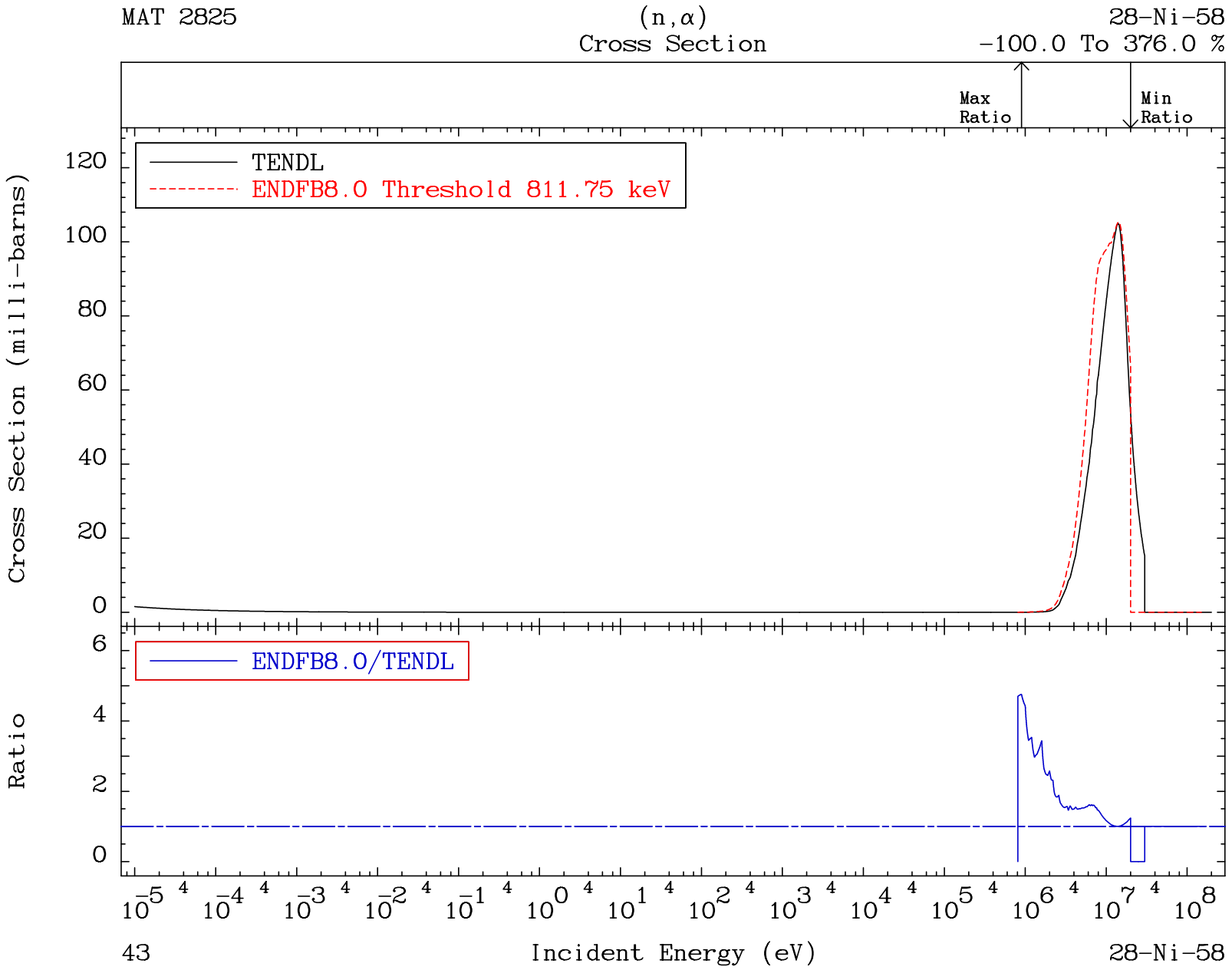

MAT 2825
(n,n') Continuum
Cross Section
28-Ni-58
-100.0 To 39.53 %
Max Ratio
Min Ratio
TENDL Threshold 4.5525 MeV
ENDFB8.0 Threshold 4.6183 MeV
Cross Section (milli-barns)
800
600
400
200
0
ENDFB8.0/TENDL
Ratio
1.8
1.2
0.6
0.0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
28-Ni-58

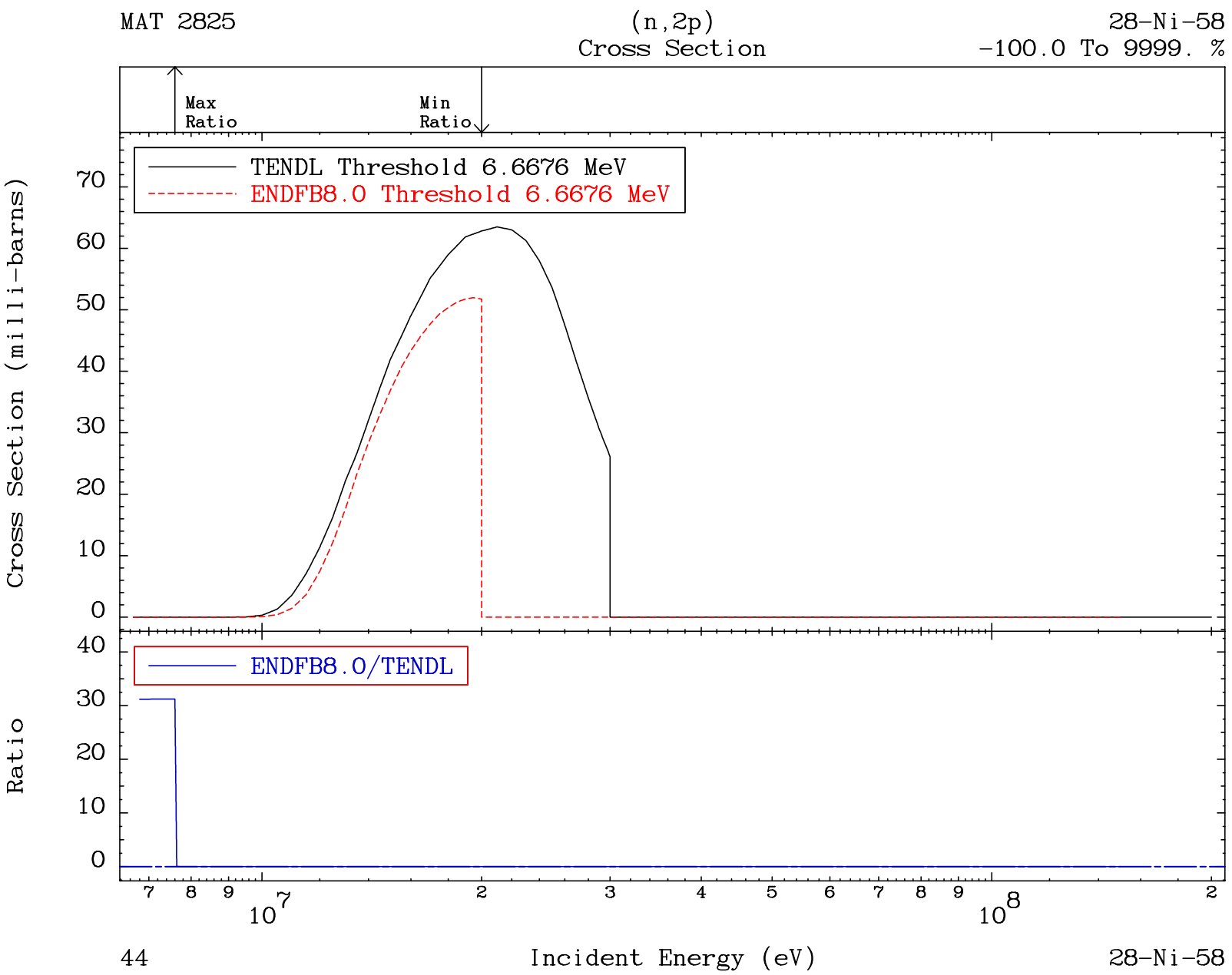

MAT 2825
(n,γ)
Cross Section
28-Ni-58
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
39
28-Ni-58

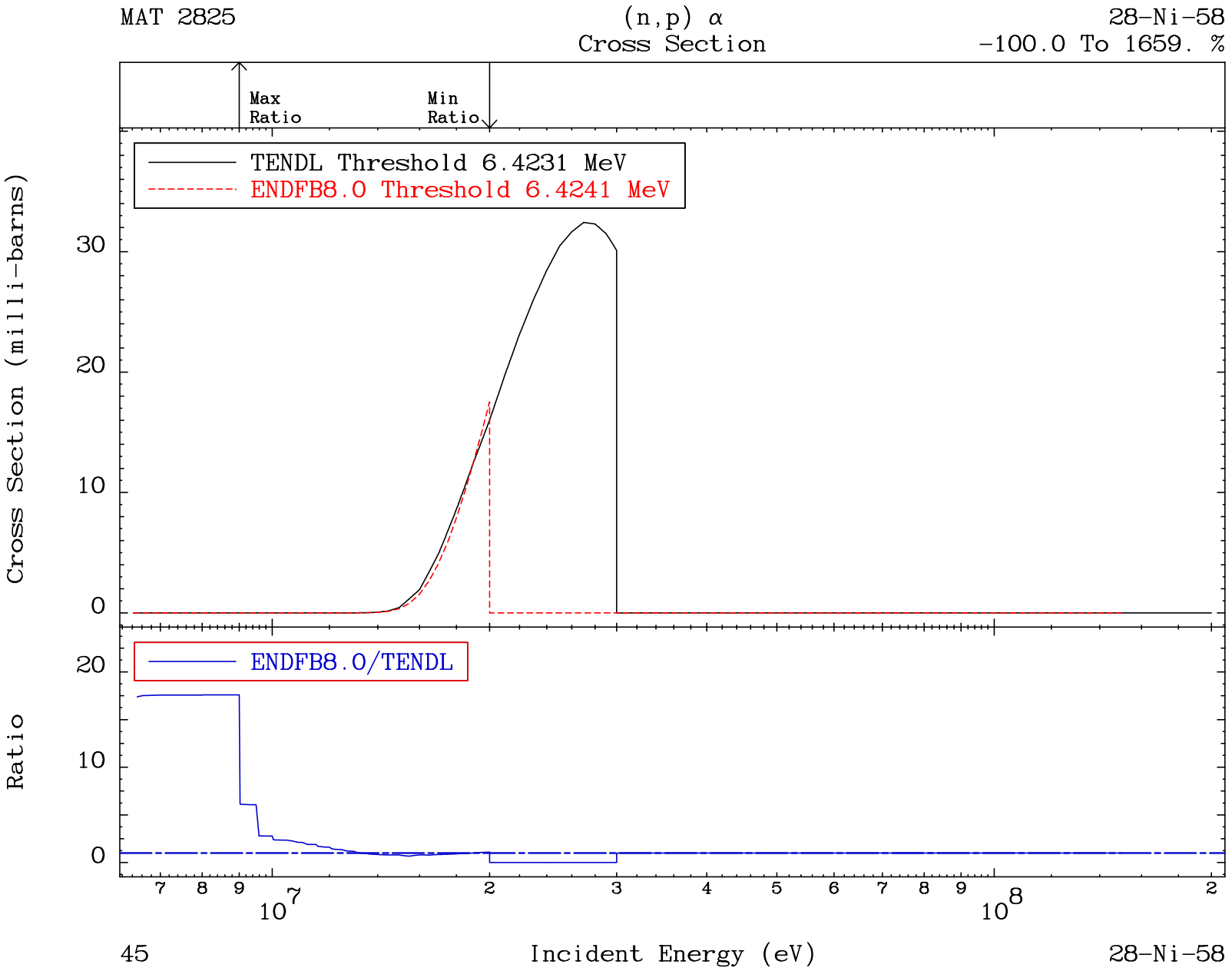

MAT 2825
(n,p)
Cross Section
28-Ni-58
-100.0 To 16.30 %
Max Ratio
Min Ratio
TENDL
ENDFB8.0 Threshold 811.75 keV
Cross Section (milli-barns)
600
400
200
0
ENDFB8.0/TENDL
Ratio
1.2
0.8
0.4
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
40
Incident Energy (eV)
28-Ni-58

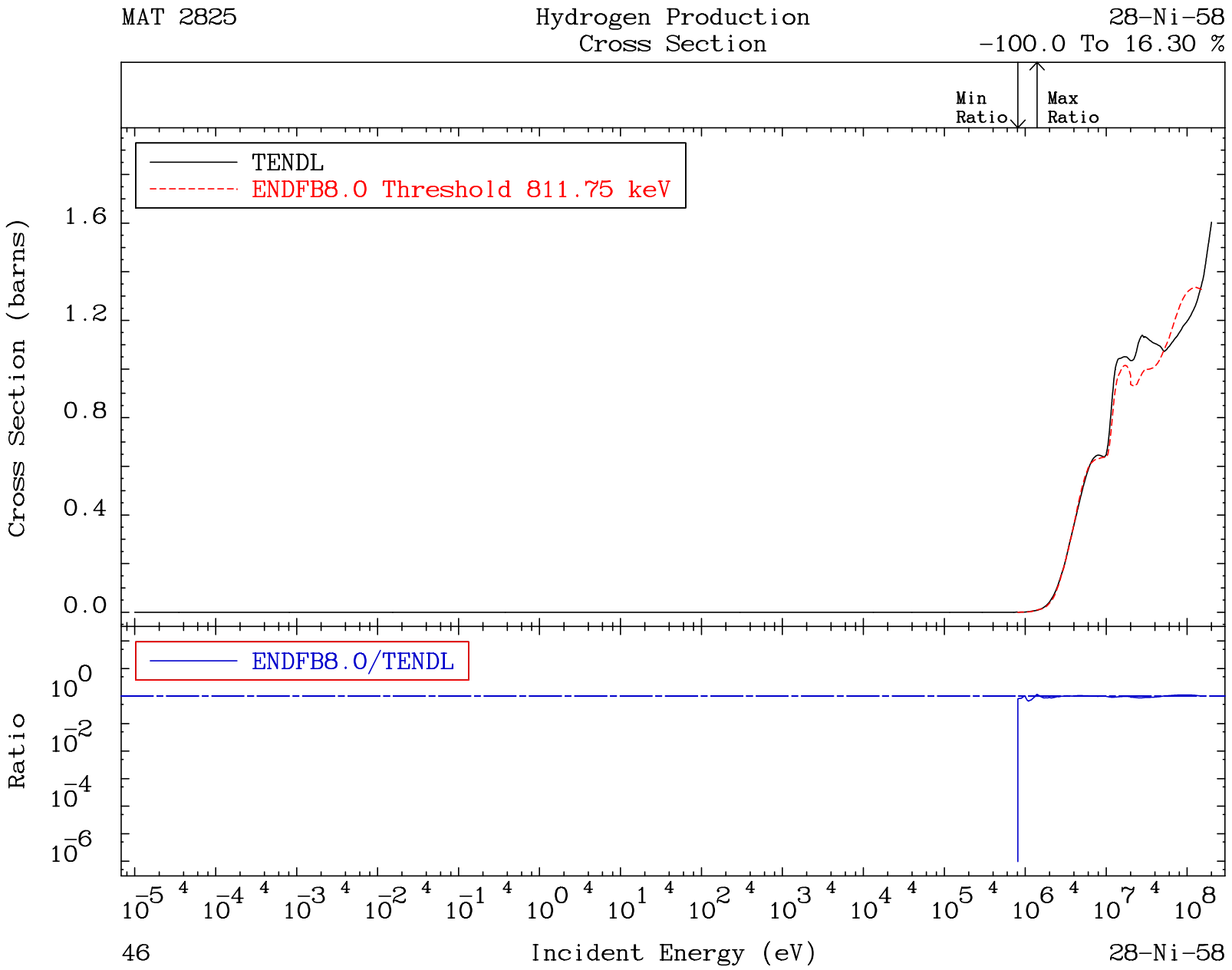

MAT 2825
(n,d)
Cross Section
28-Ni-58
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.0512 MeV
ENDFB8.0 Threshold 6.0512 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
20
10
0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
28-Ni-58

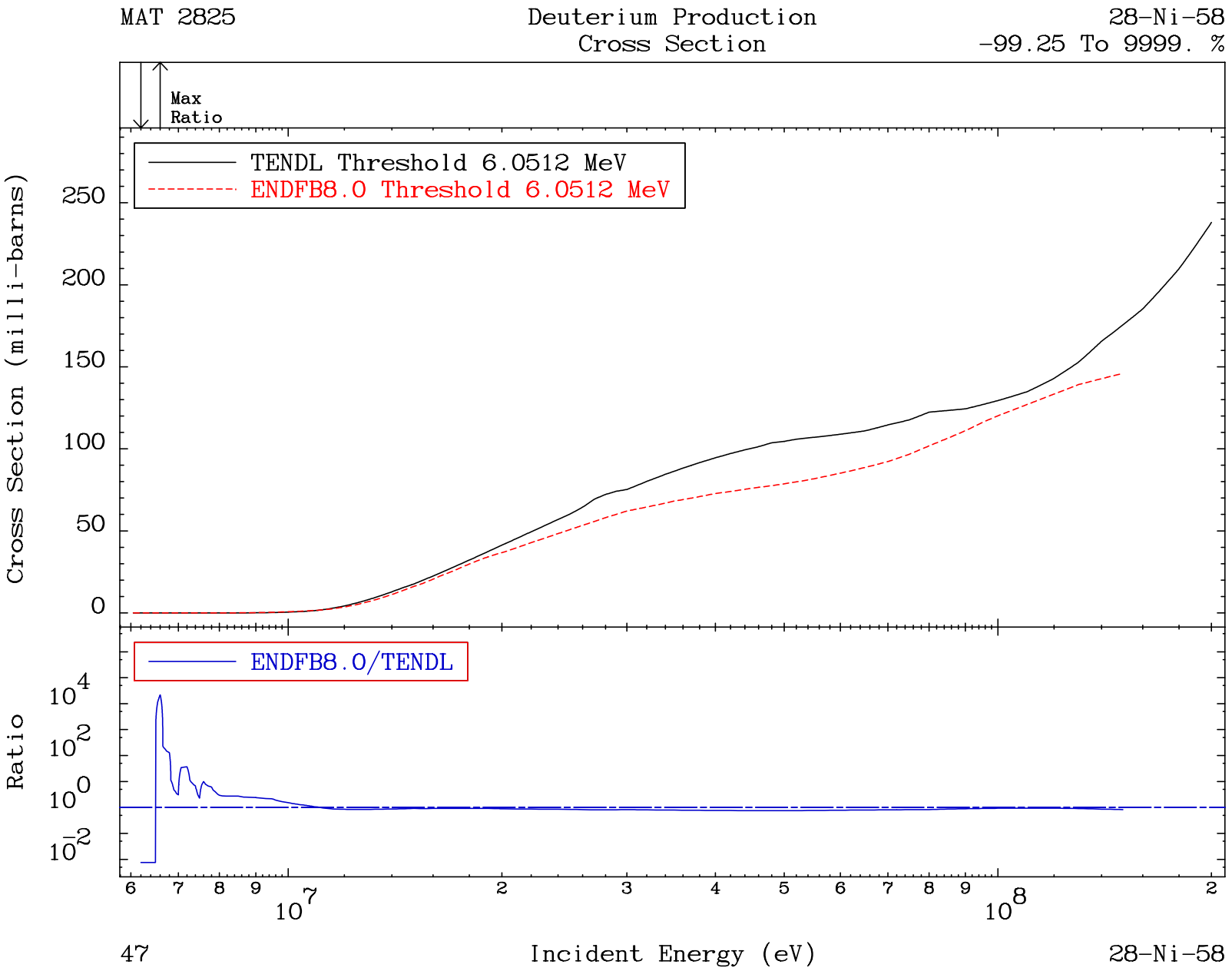

MAT 2825
(n,t)
Cross Section
28-Ni-58
-100.0 To 2971. %
Max Ratio
Min Ratio
TENDL Threshold 11.260 MeV
ENDFB8.0 Threshold 11.260 MeV
Cross Section (milli-barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
42
28-Ni-58

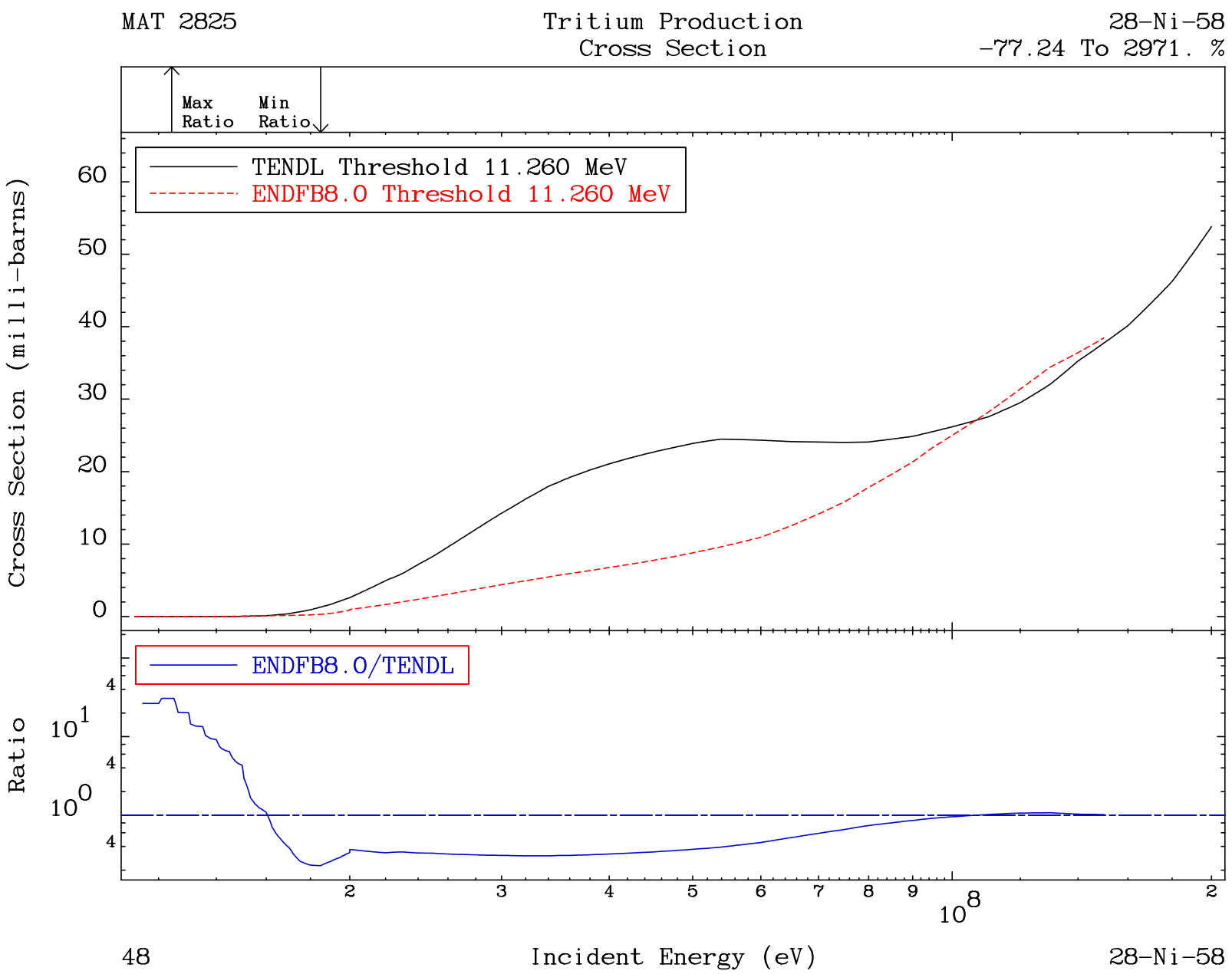

MAT 2825
(n,α)
Cross Section
28-Ni-58
-100.0 To 376.0 %
Max Ratio
Min Ratio
TENDL
ENDFB8.0 Threshold 811.75 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
6
4
2
0
10-5 10-4 10-3 10-2 10-1 100 101 102 103 104 105 106 107 108
43
Incident Energy (eV)
28-Ni-58

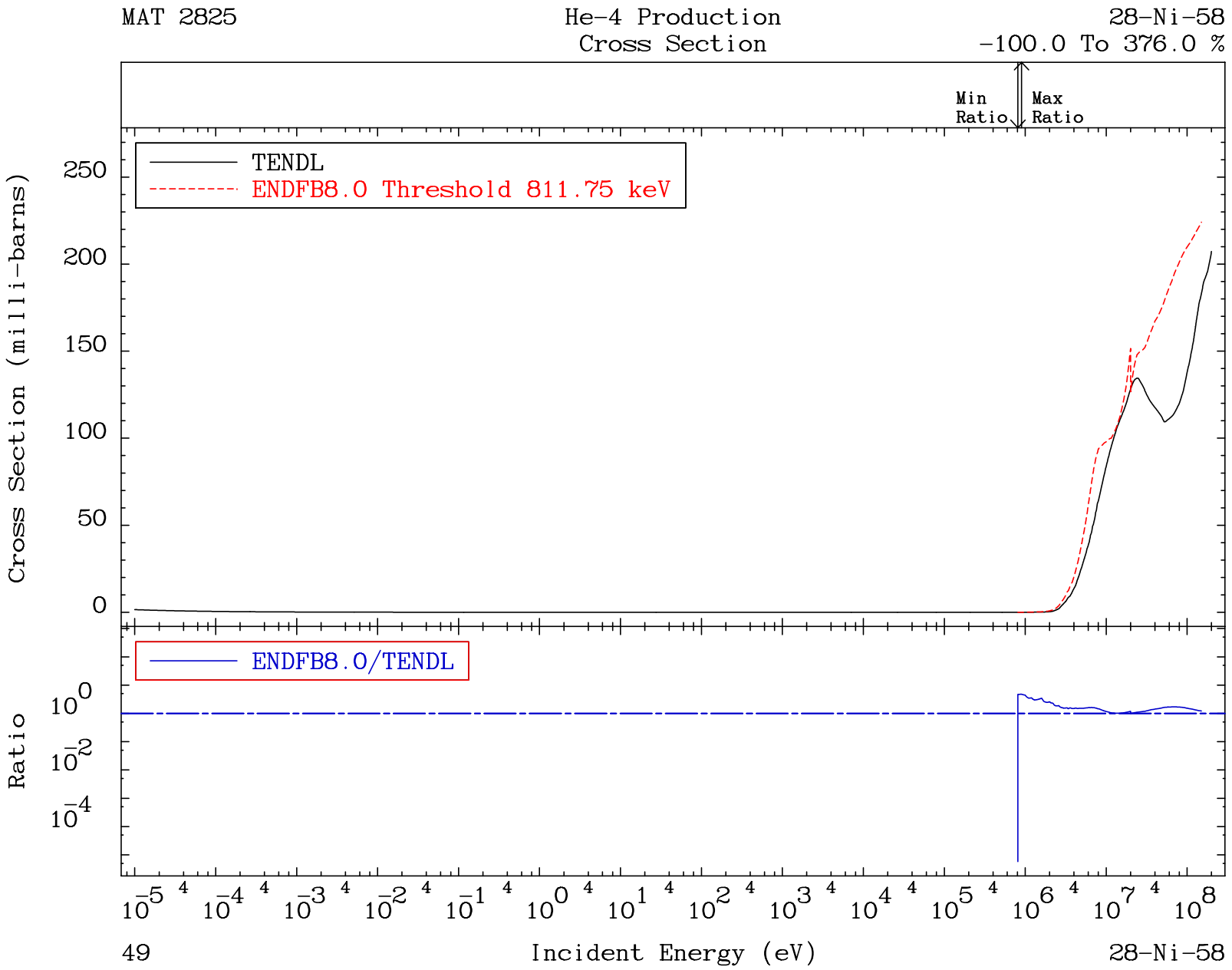

MAT 2825
(n,2p)
Cross Section
28-Ni-58
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.6676 MeV
ENDFB8.0 Threshold 6.6676 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
40
30
20
10
0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
28-Ni-58

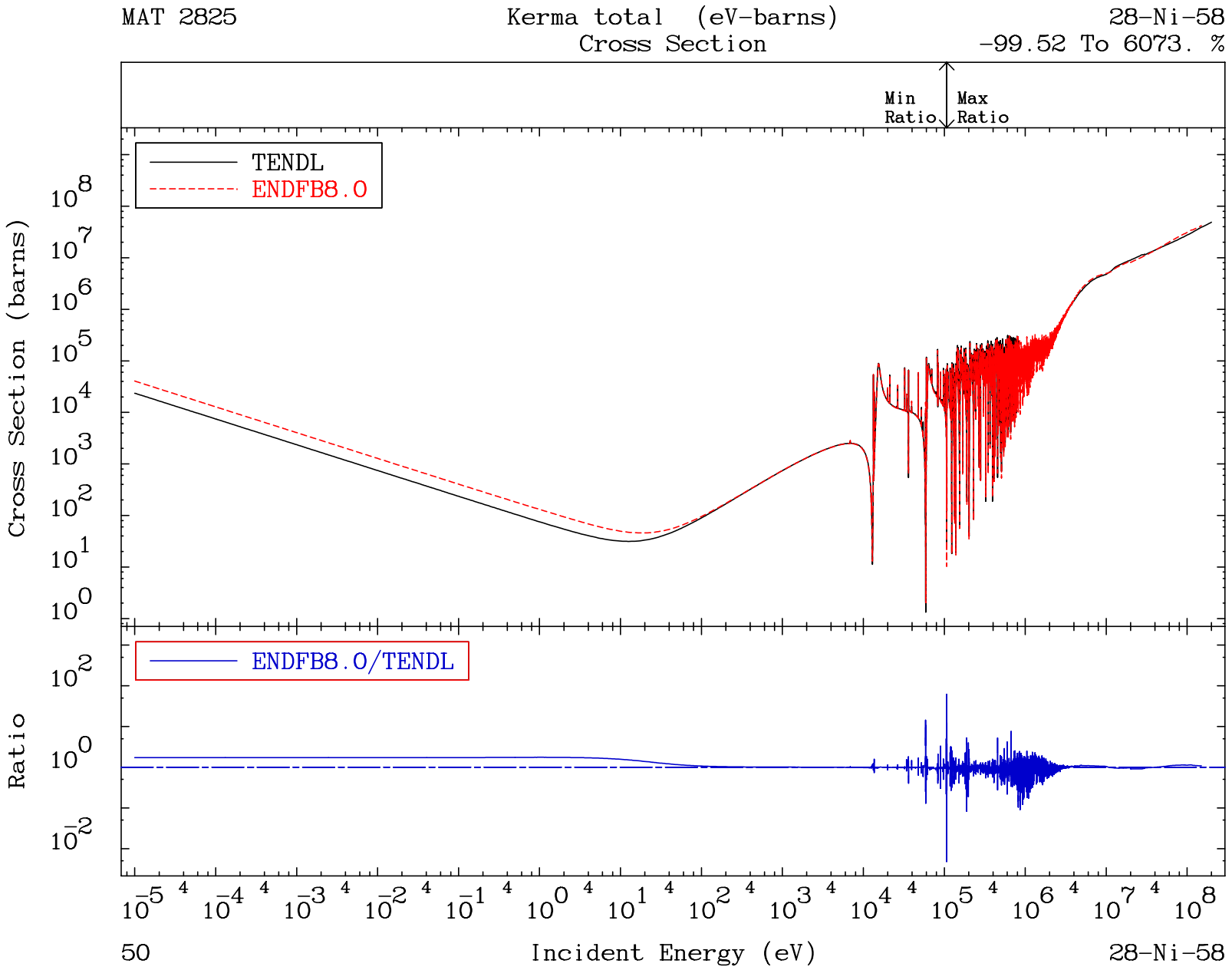

MAT 2825
(n,p) α
Cross Section
28-Ni-58
-100.0 To 1659. %
Max Ratio
Min Ratio
TENDL Threshold 6.4231 MeV
ENDFB8.0 Threshold 6.4241 MeV
Cross Section (milli-barns)
30
20
10
0
ENDFB8.0/TENDL
Ratio
20
10
0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
28-Ni-58

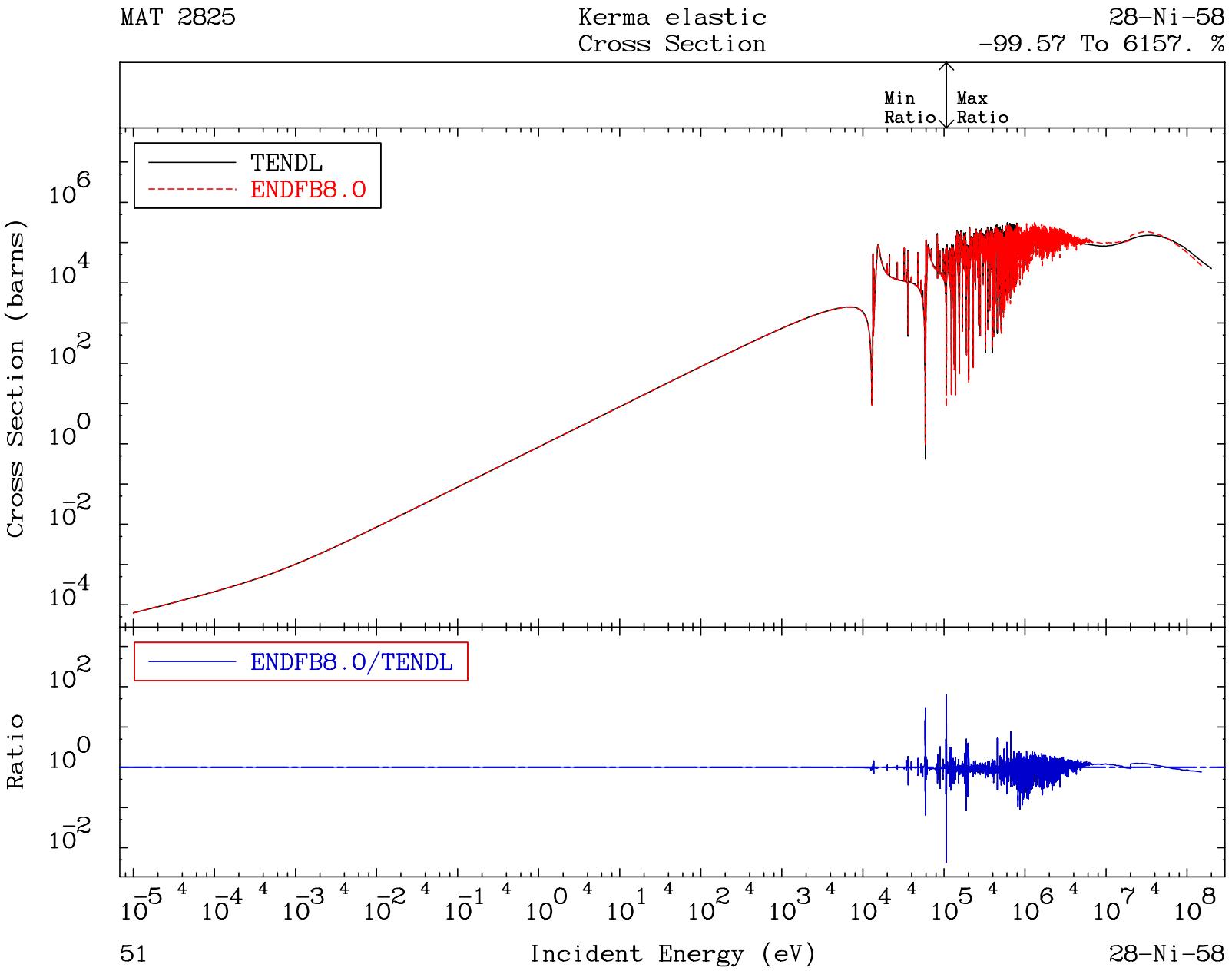

MAT 2825
Hydrogen Production
Cross Section
28-Ni-58
-100.0 To 16.30 %
Min Ratio
Max Ratio
TENDL
ENDFB8.0 Threshold 811.75 keV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
ENDFB8.0/TENDL
Ratio
10^{0}
10^{-2}
10^{-4}
10^{-6}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
46
Incident Energy (eV)
28-Ni-58

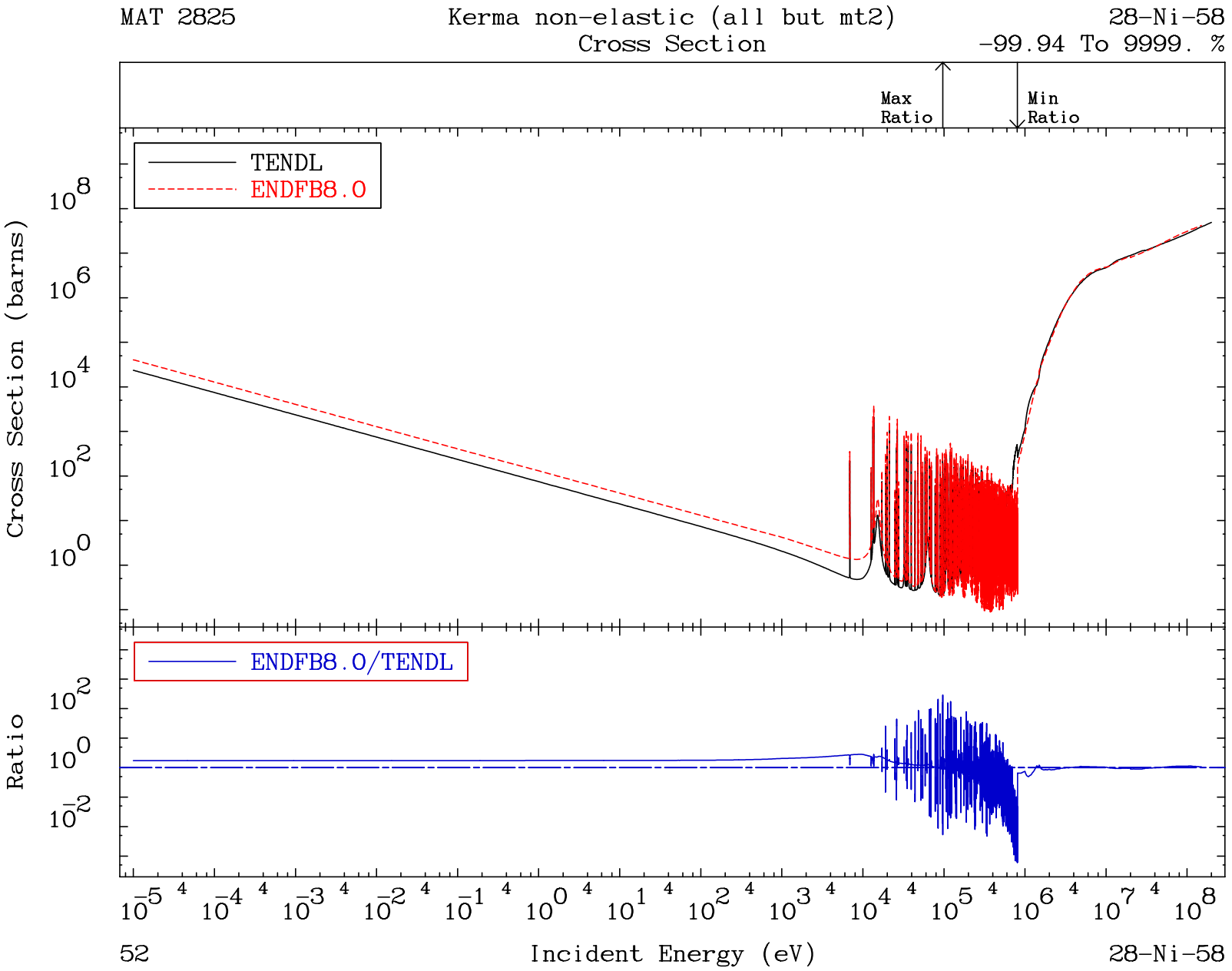

MAT 2825
Deuterium Production
Cross Section
28-Ni-58
-99.25 To 9999. %
Max
Ratio
TENDL Threshold 6.0512 MeV
ENDFB8.0 Threshold 6.0512 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
10^4
10^2
10^0
10^-2
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
47
Incident Energy (eV)
28-Ni-58

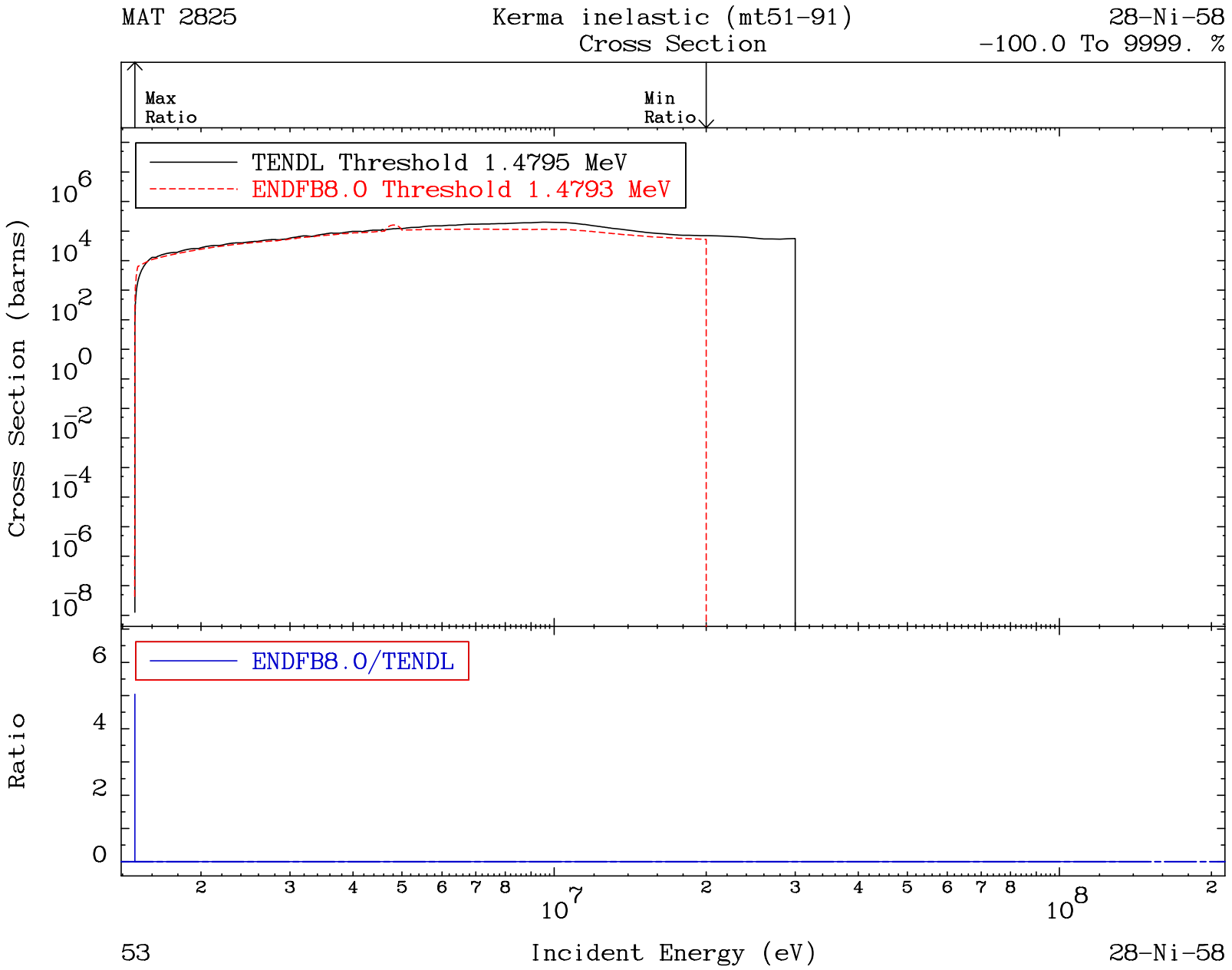

MAT 2825
Tritium Production
Cross Section
28-Ni-58
-77.24 To 2971. %
Max Ratio
Min Ratio
TENDL Threshold 11.260 MeV
ENDFB8.0 Threshold 11.260 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
10^1
10^0
4
2
3
4
5
6
7
8
9
10^8
2
48
Incident Energy (eV)
28-Ni-58

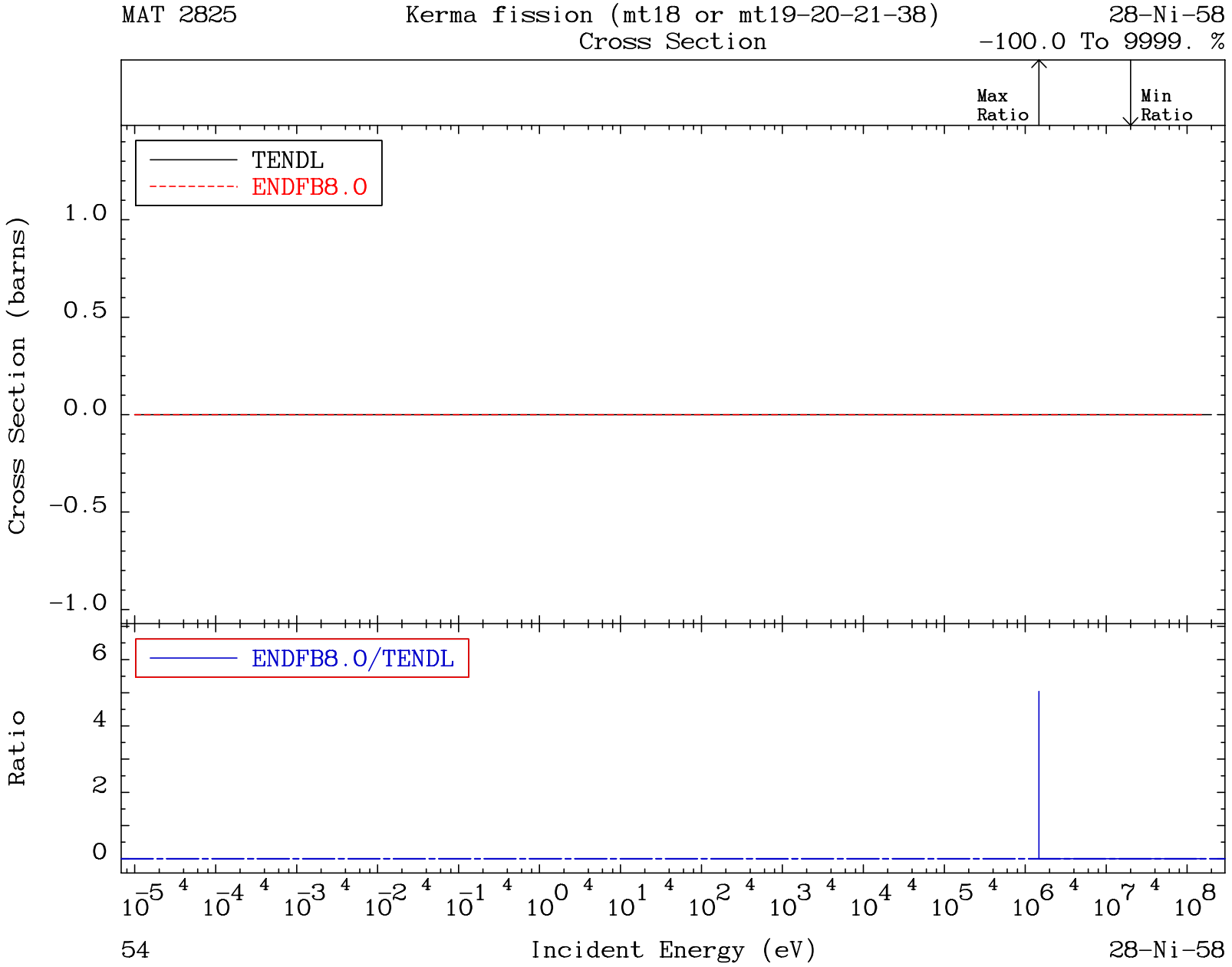

MAT 2825
He-4 Production
Cross Section
28-Ni-58
-100.0 To 376.0 %
Min Ratio
Max Ratio
TENDL
ENDFB8.0 Threshold 811.75 keV
Cross Section (milli-barns)
250
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
10^{0}
10^{-2}
10^{-4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
49
Incident Energy (eV)
28-Ni-58

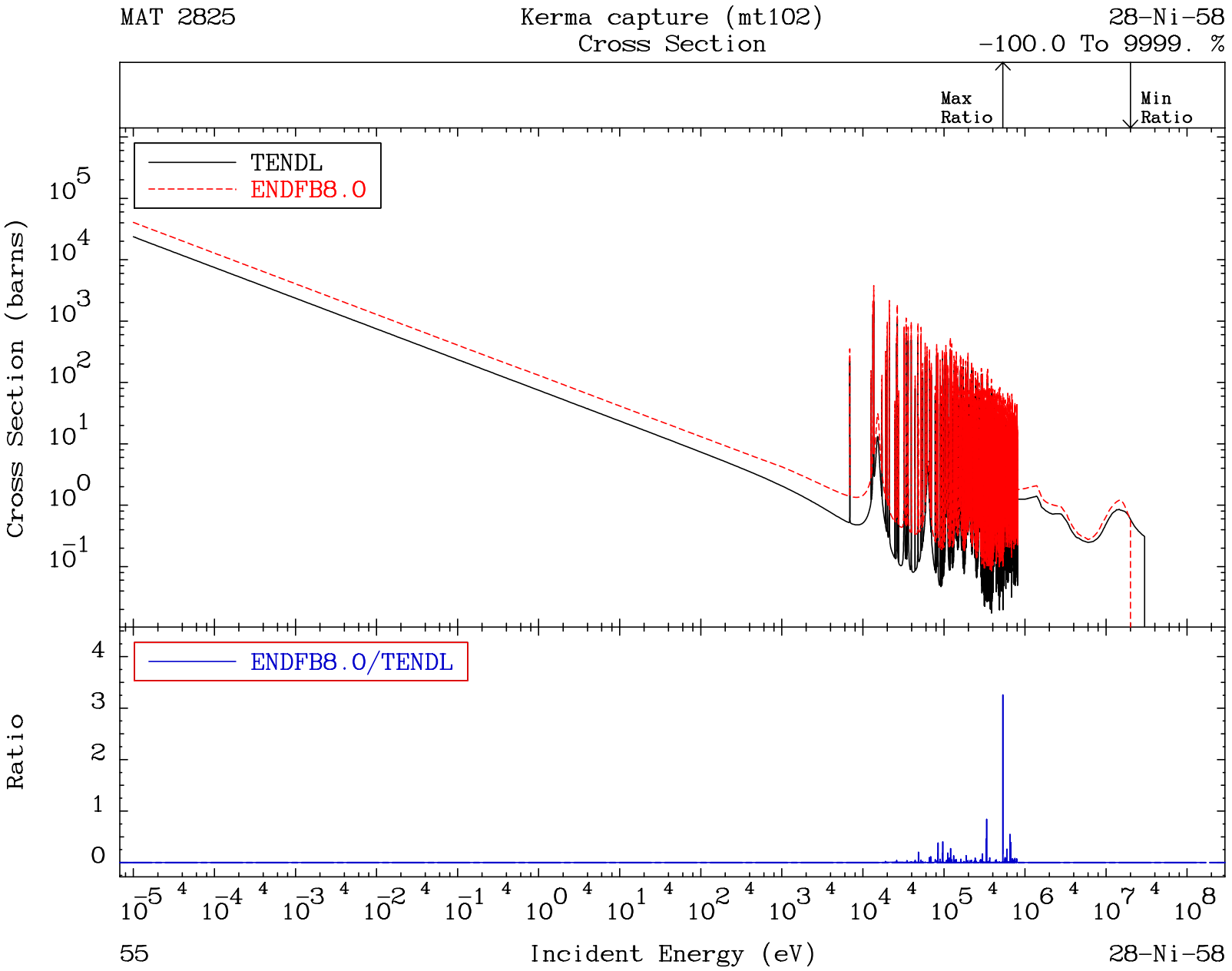

MAT 2825
Kerma total (eV-barns)
Cross Section
28-Ni-58
-99.52 To 6073. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
50
28-Ni-58

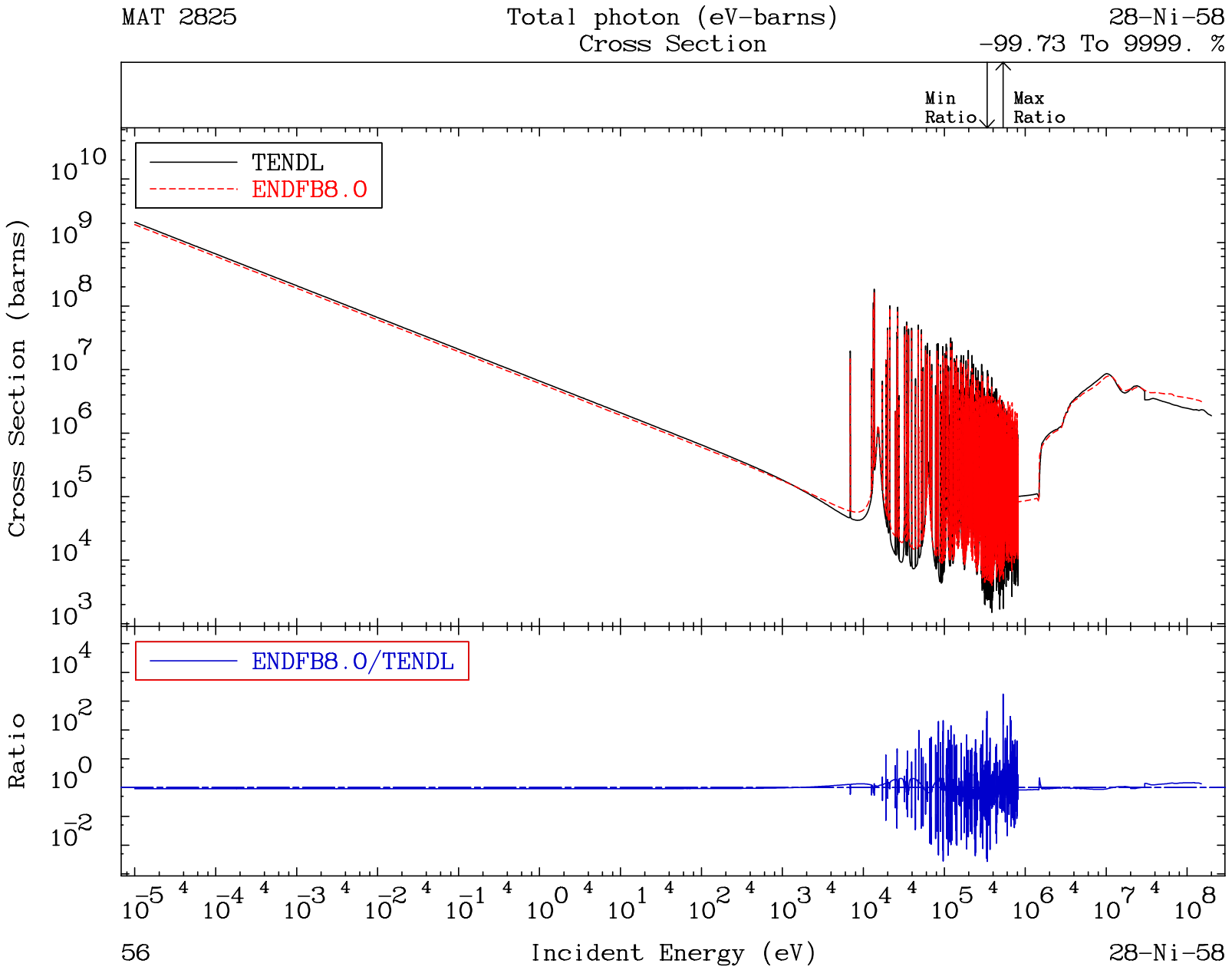

MAT 2825
Kerma elastic
Cross Section
28-Ni-58
-99.57 To 6157. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
51
28-Ni-58

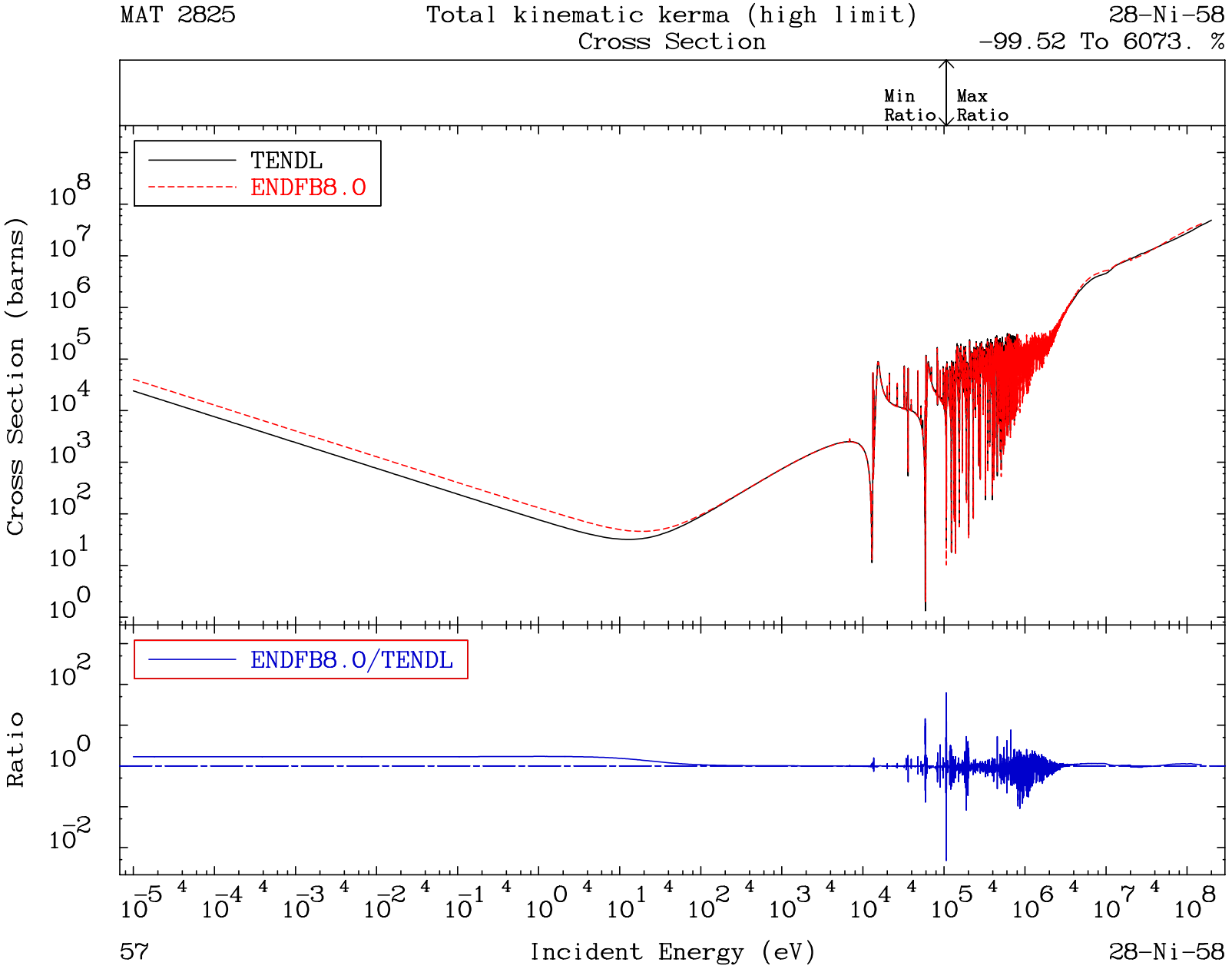

MAT 2825
Kerma non-elastic (all but mt2)
Cross Section
28-Ni-58
-99.94 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
52
28-Ni-58

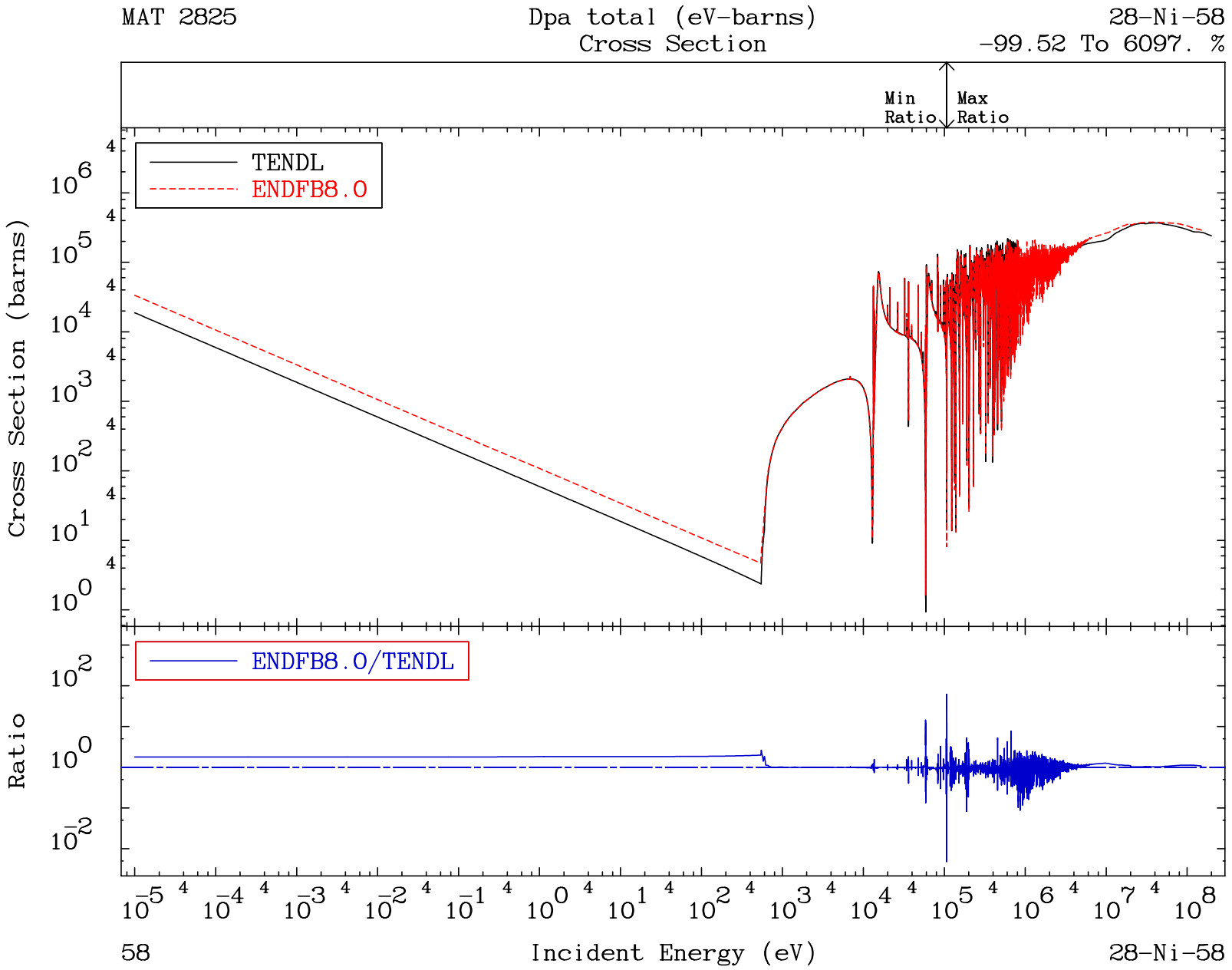

MAT 2825
Kerma inelastic (mt51-91)
Cross Section
28-Ni-58
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.4795 MeV
ENDFB8.0 Threshold 1.4793 MeV
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
53
28-Ni-58

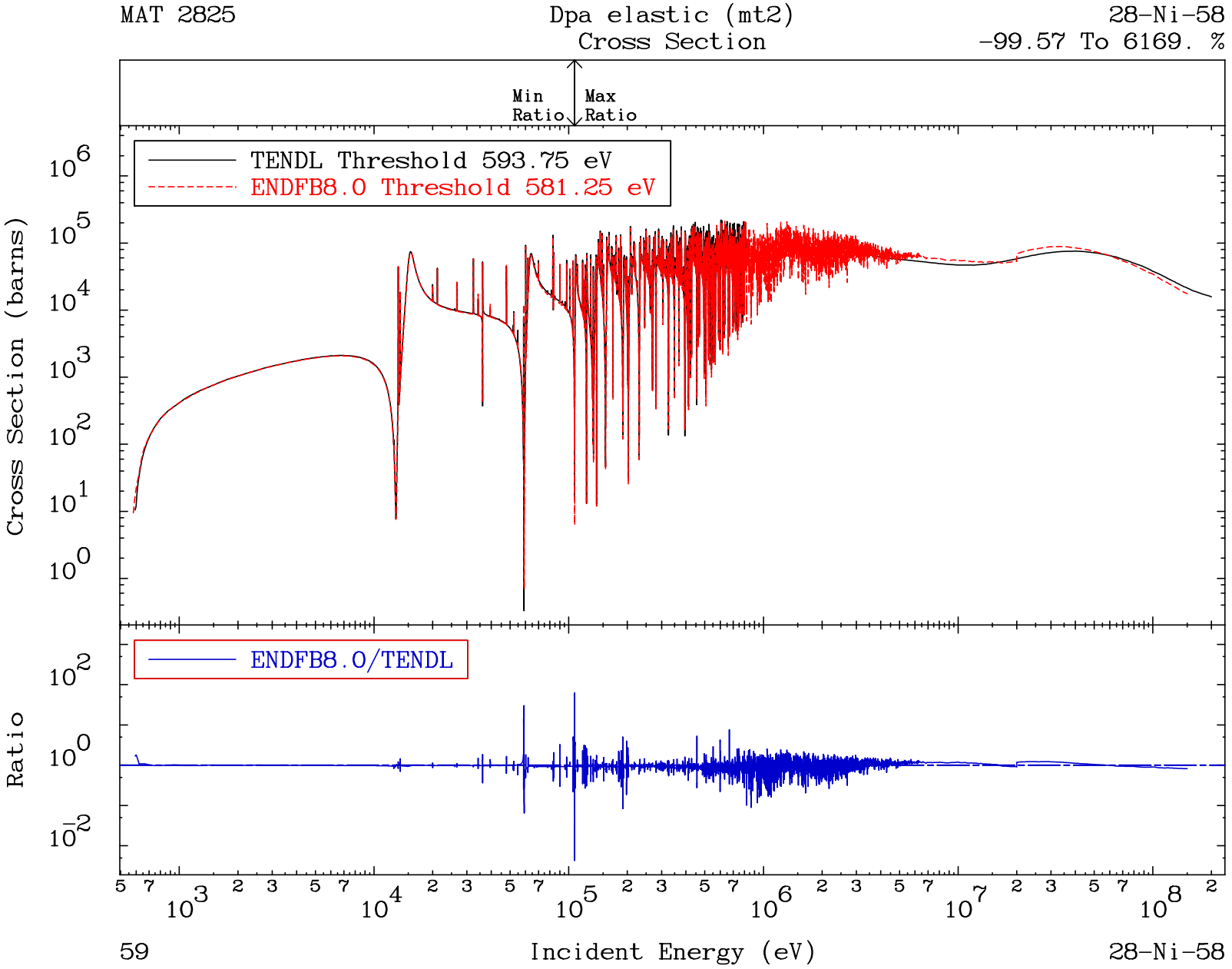

MAT 2825
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
28-Ni-58
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
ENDFB8.0/TENDL
Ratio
6
4
2
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
54
Incident Energy (eV)
28-Ni-58

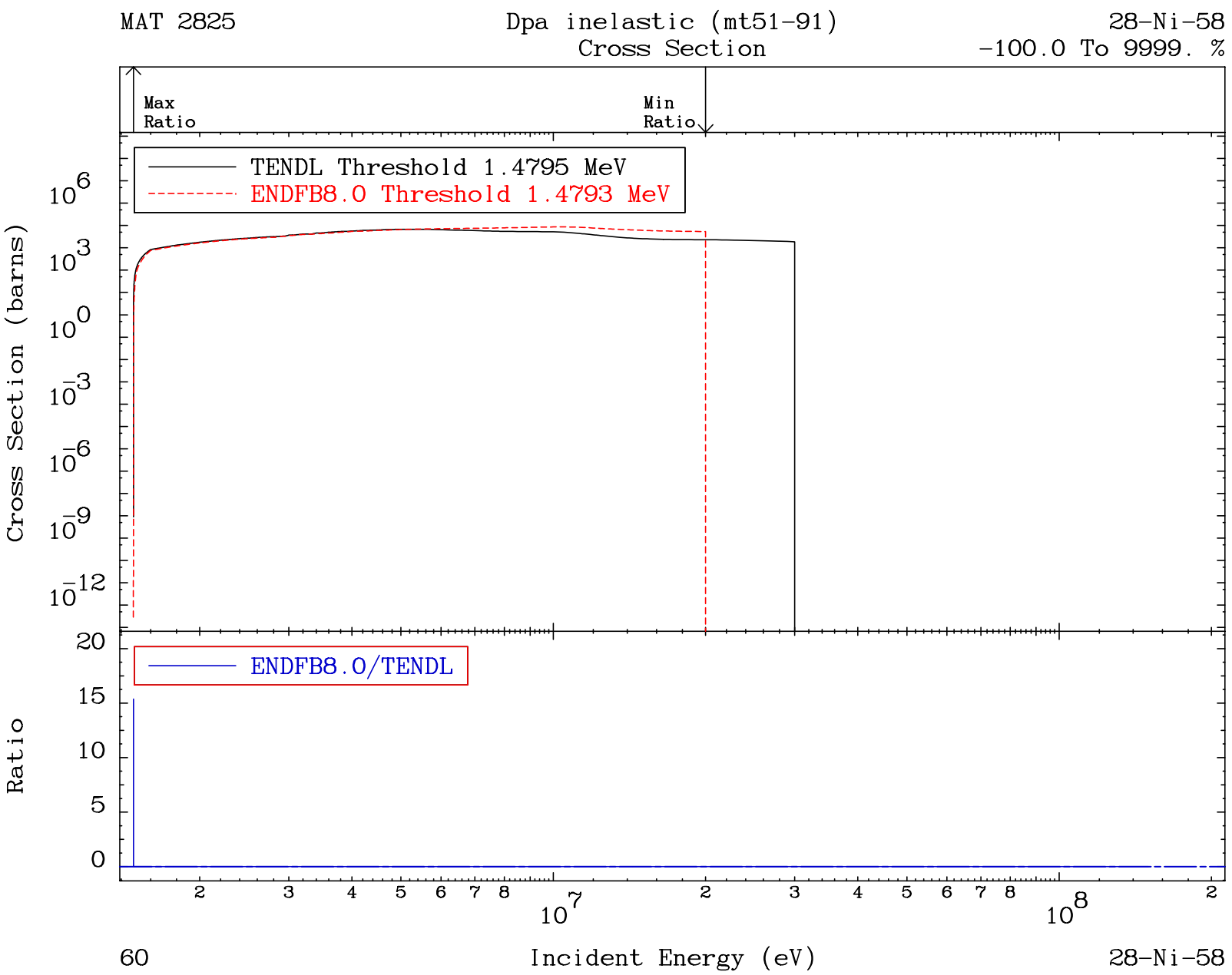

MAT 2825
Kerma capture (mt102)
Cross Section
28-Ni-58
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
55
28-Ni-58

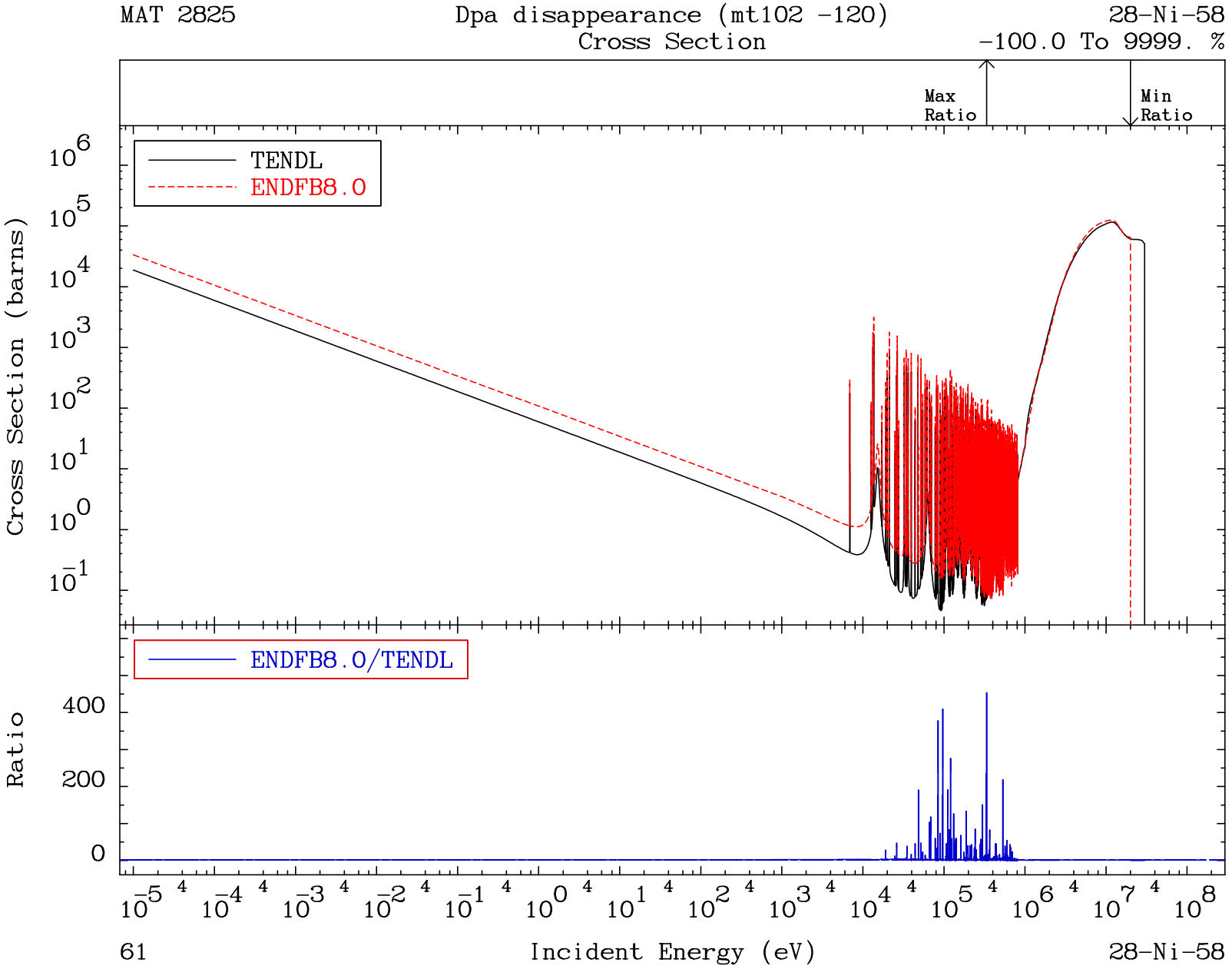

MAT 2825
Total photon (eV-barns)
Cross Section
28-Ni-58
-99.73 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
56
28-Ni-58


MAT 2825
Total kinematic kerma (high limit)
Cross Section
28-Ni-58
-99.52 To 6073. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
57
28-Ni-58


MAT 2825
Dpa total (eV-barns)
Cross Section
28-Ni-58
-99.52 To 6097. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
58
28-Ni-58


MAT 2825
Dpa elastic (mt2)
Cross Section
28-Ni-58
-99.57 To 6169. %
Min Ratio
Max Ratio
TENDL Threshold 593.75 eV
ENDFB8.0 Threshold 581.25 eV
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
59
28-Ni-58


MAT 2825
Dpa inelastic (mt51-91)
Cross Section
28-Ni-58
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.4795 MeV
ENDFB8.0 Threshold 1.4793 MeV
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
60
28-Ni-58


MAT 2825
Dpa disappearance (mt102 -120)
Cross Section
28-Ni-58
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
61
28-Ni-58