Program Complot
(Version 2021-1)
by
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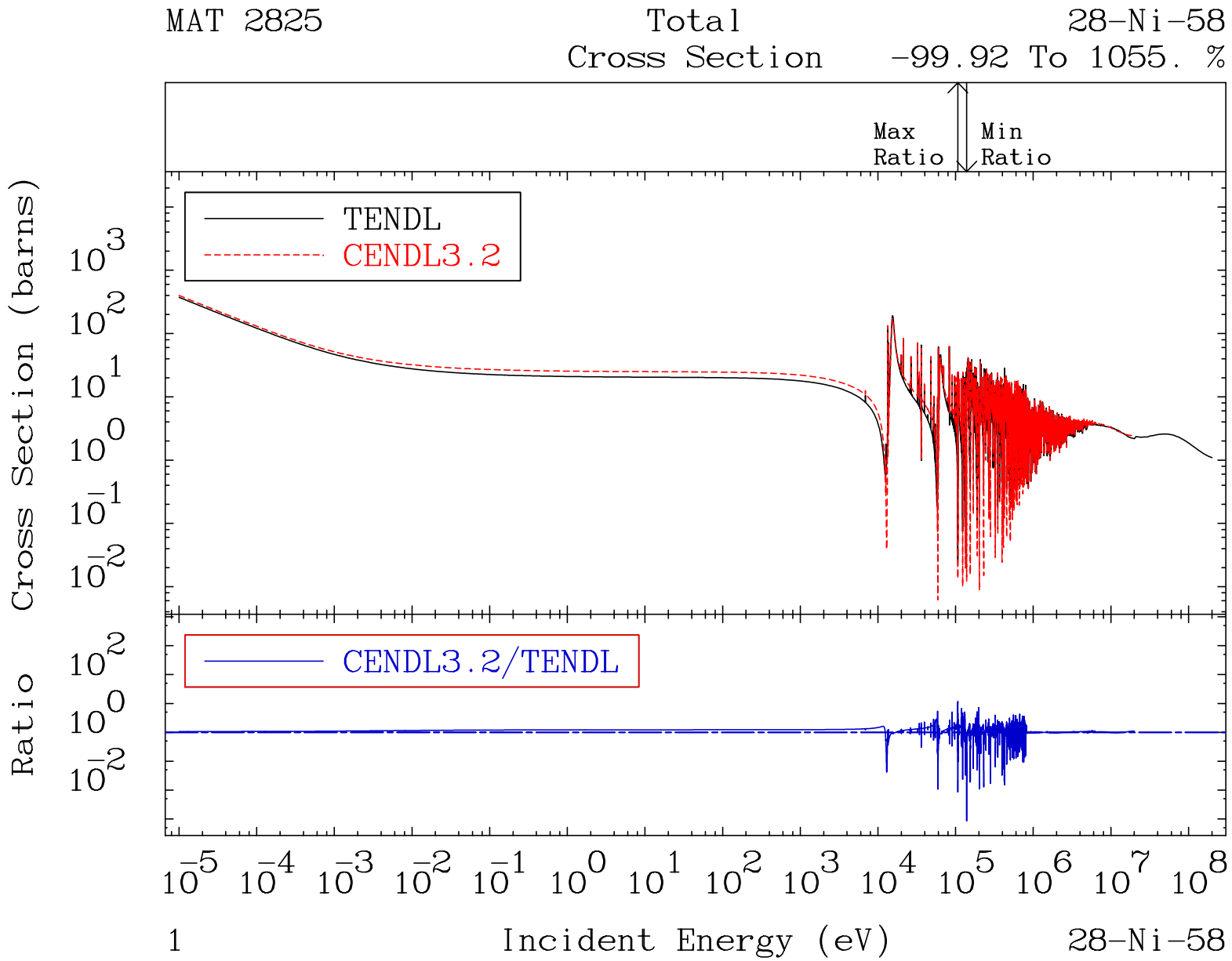
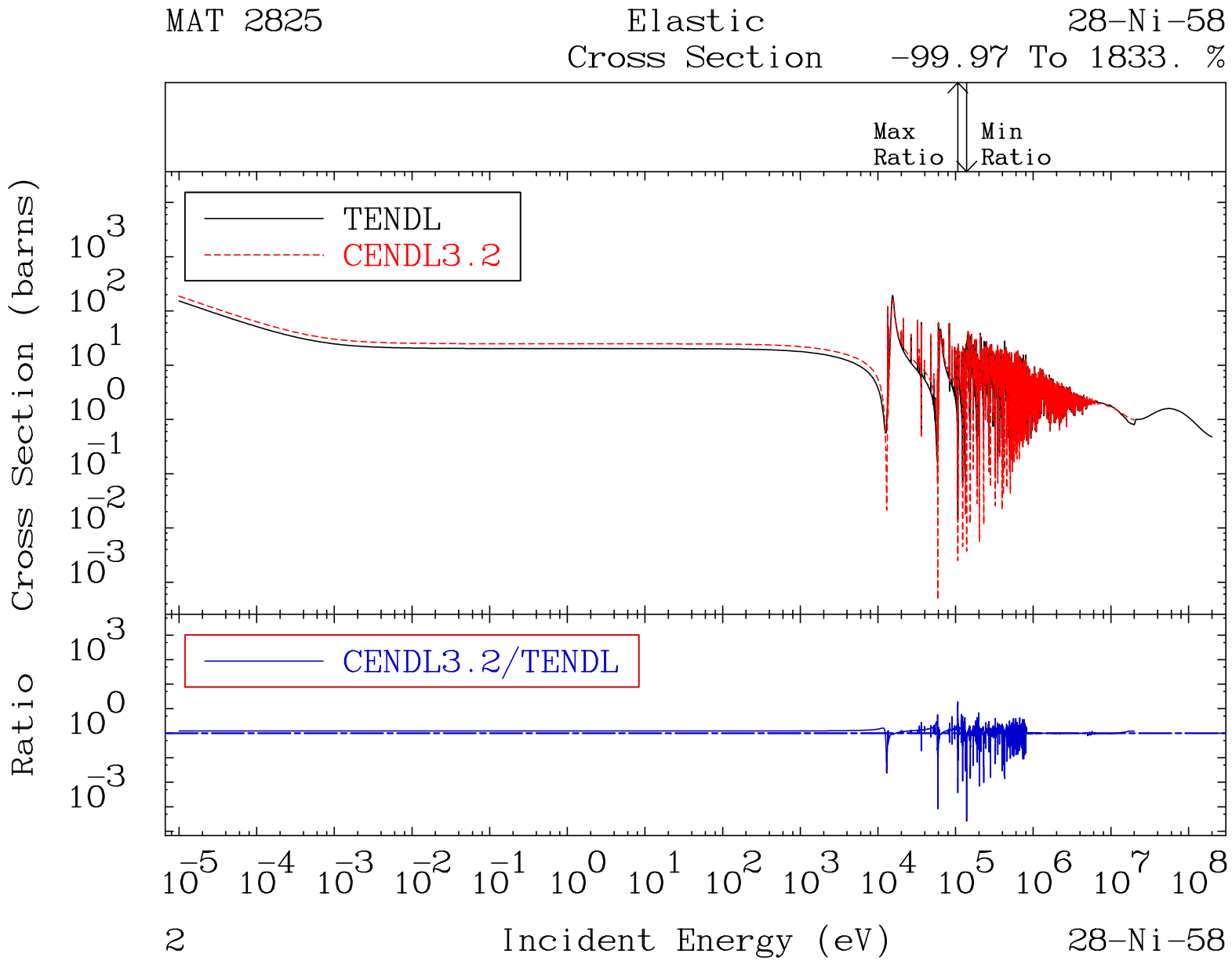
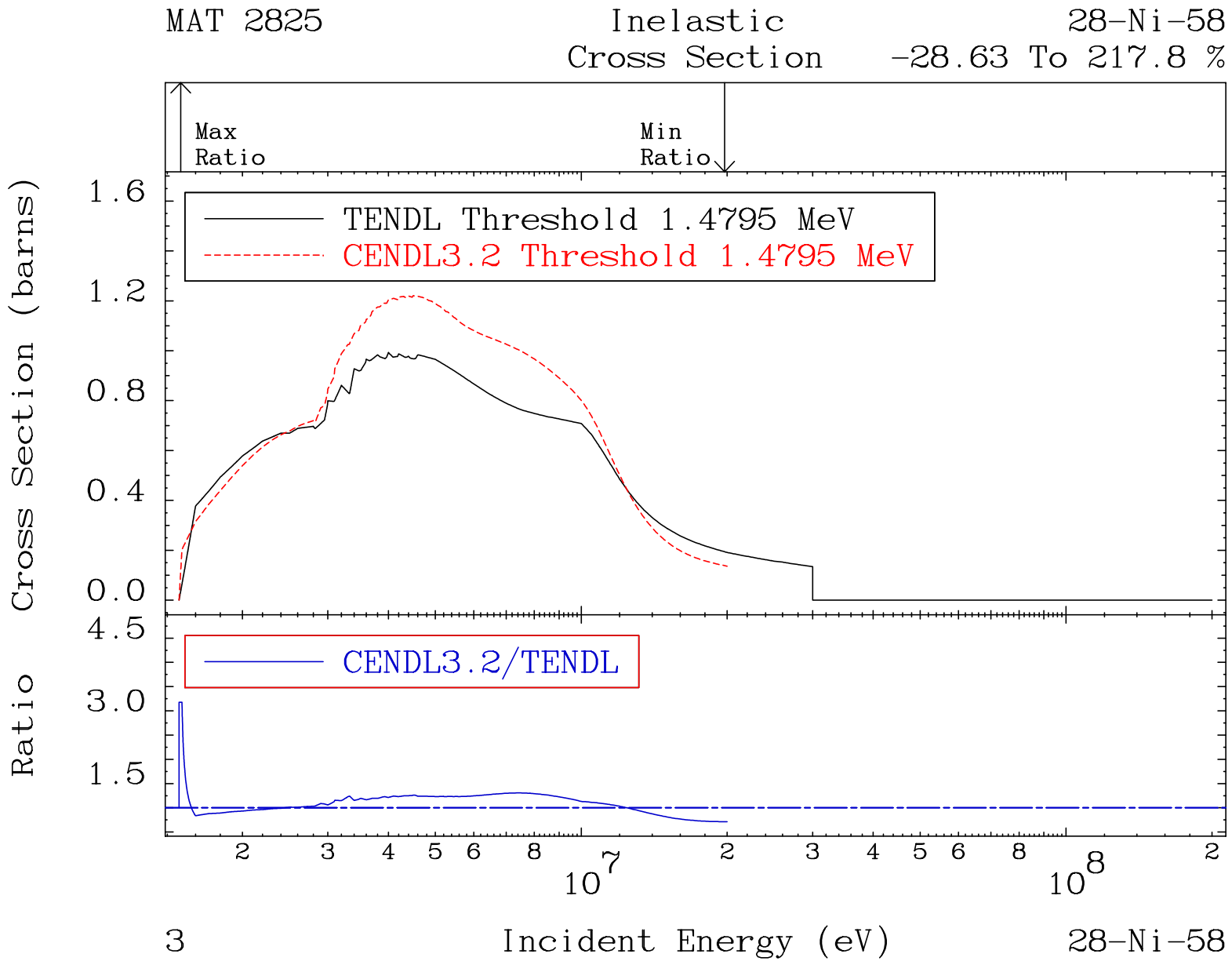
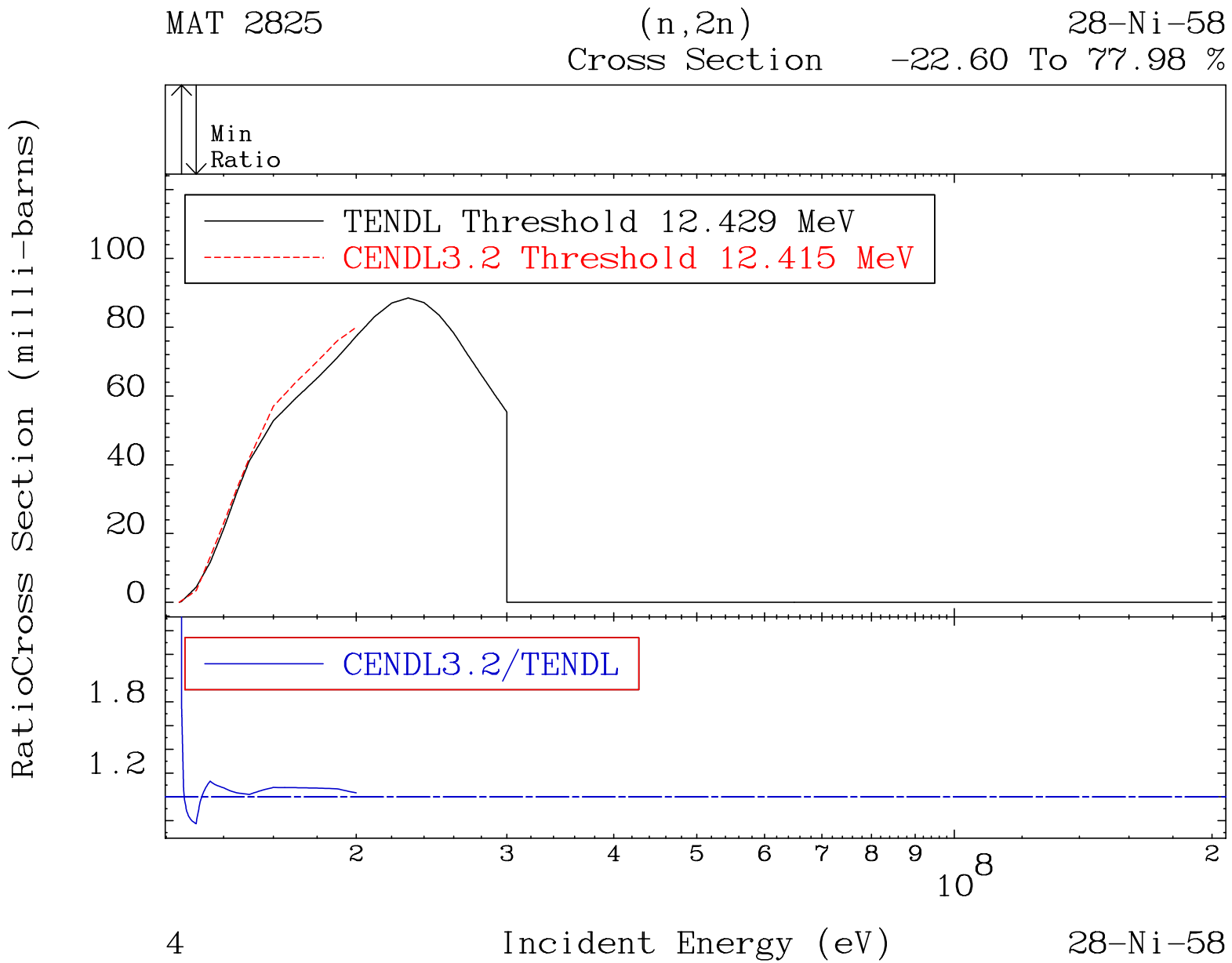
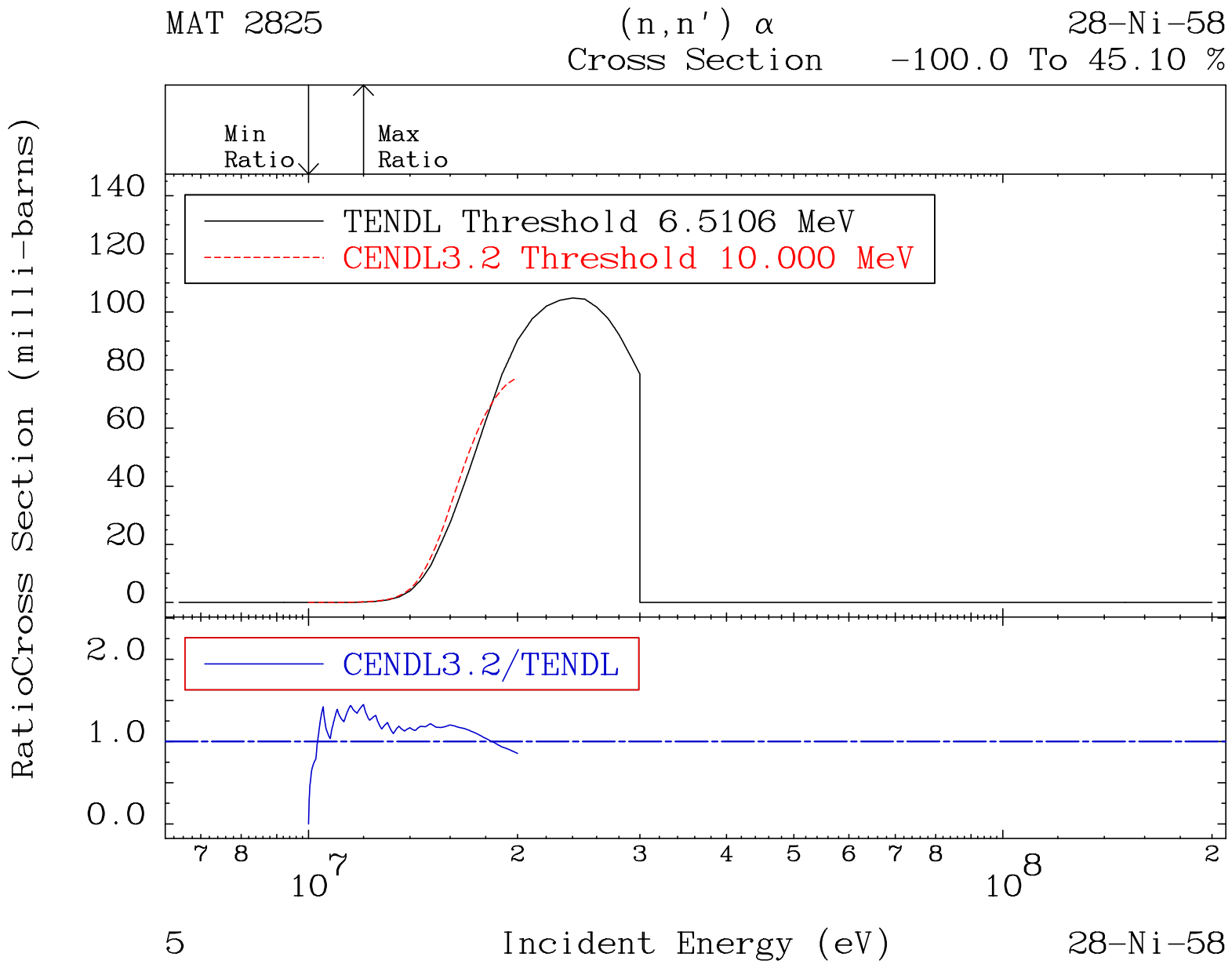
Press Mouse Button to Start

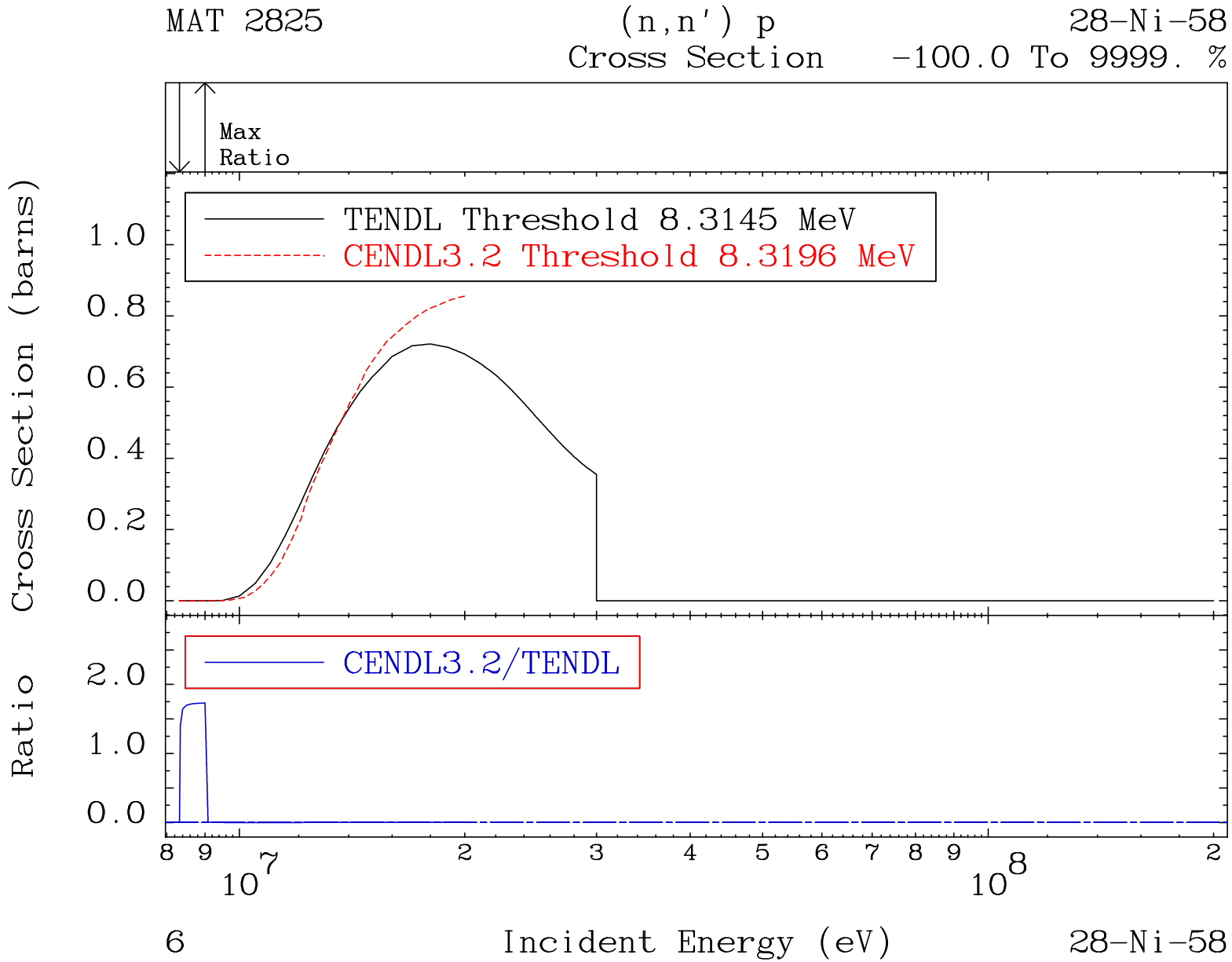

MAT 2825
Total
Cross Section
28-Ni-58
-99.92 To 1055. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
28-Ni-58
1

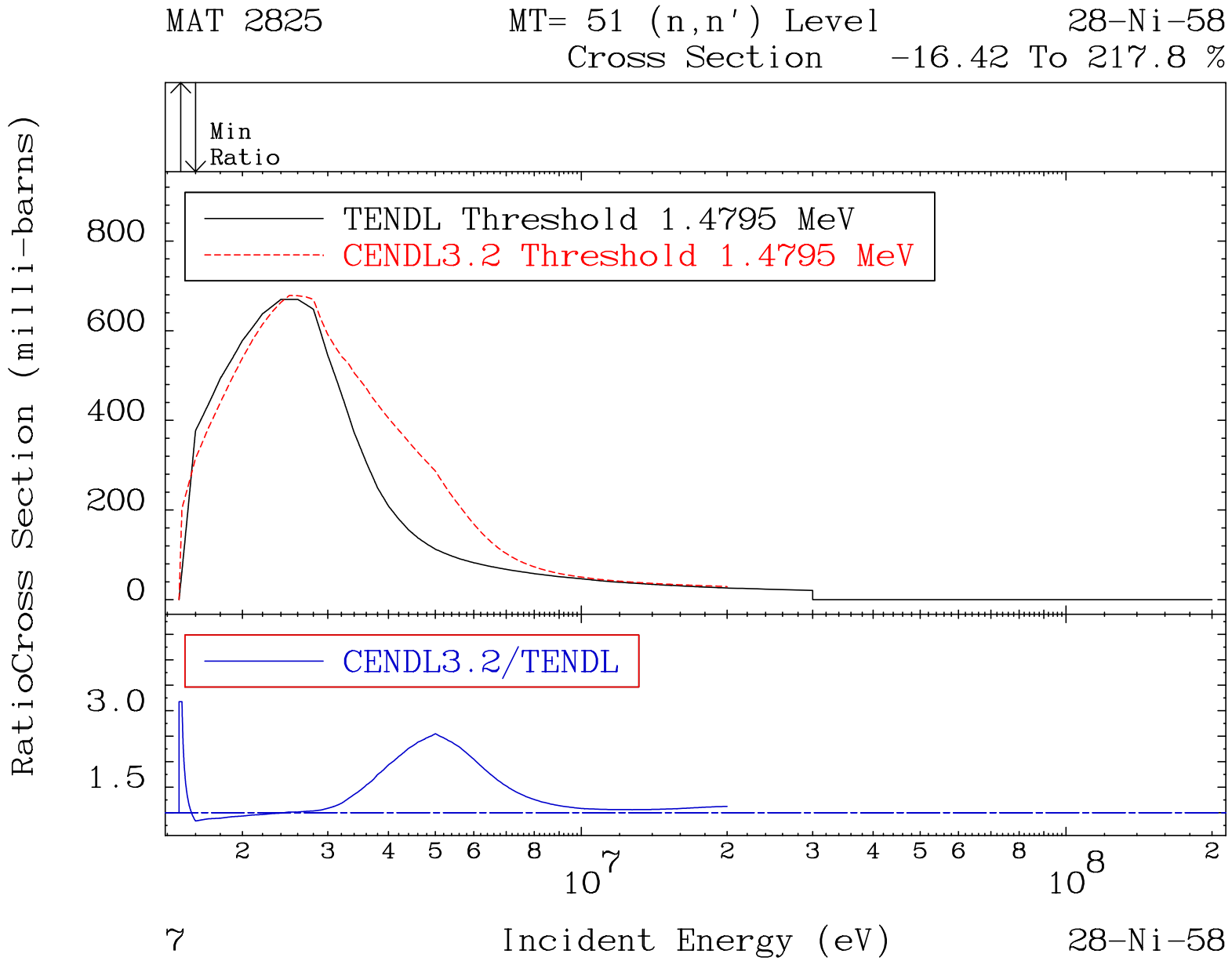

MAT 2825
Elastic
Cross Section
28-Ni-58
-99.97 To 1833. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
28-Ni-58

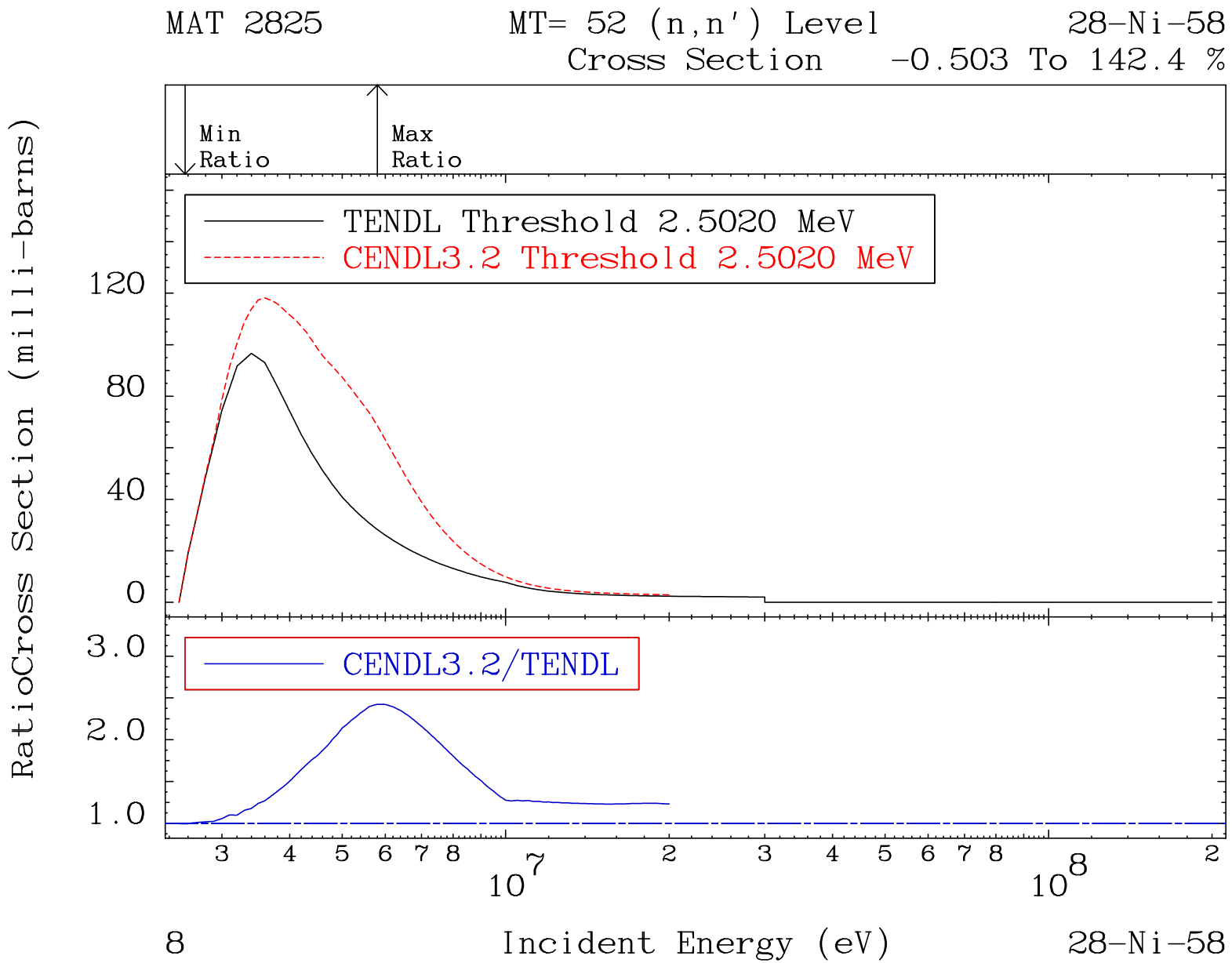

MAT 2825
Inelastic
Cross Section
28-Ni-58
-28.63 To 217.8 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.4795 MeV
CENDL3.2 Threshold 1.4795 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
4.5
3.0
1.5
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
28-Ni-58

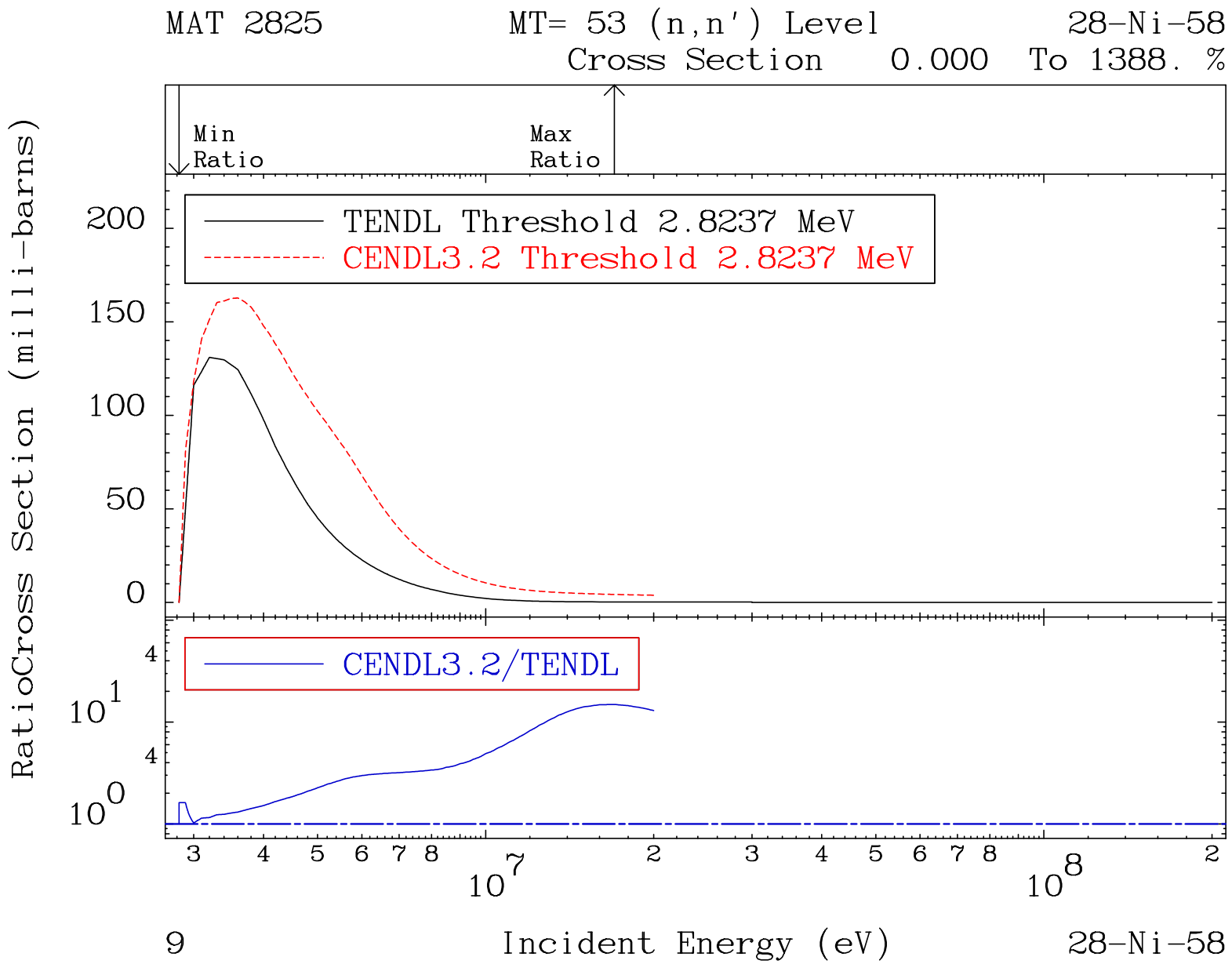

MAT 2825
(n,2n)
Cross Section
28-Ni-58
-22.60 To 77.98 %
Min
Ratio
TENDL Threshold 12.429 MeV
CENDL3.2 Threshold 12.415 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.8
1.2
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
28-Ni-58

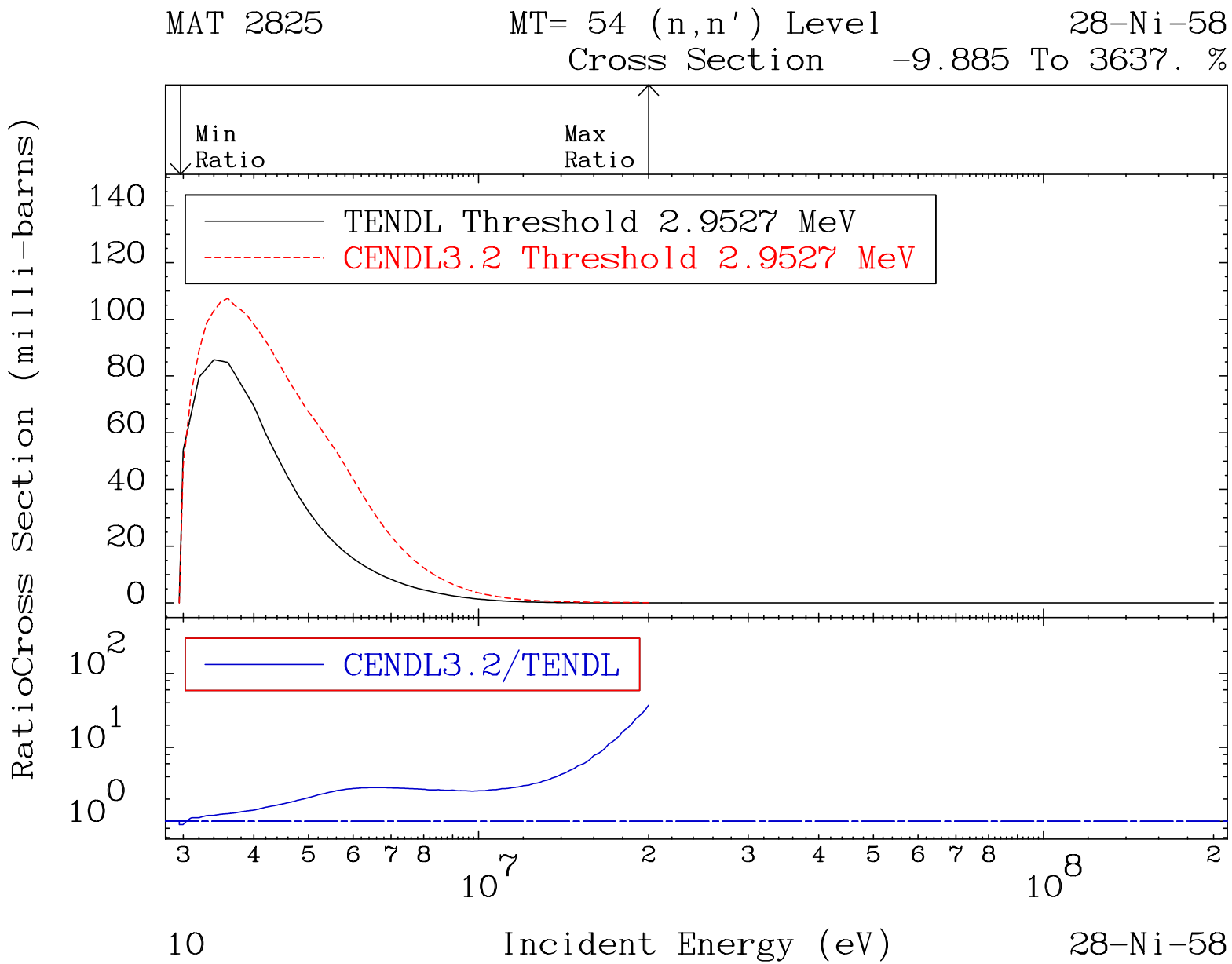

MAT 2825
(n,n') α
Cross Section
28-Ni-58
-100.0 To 45.10 %
Min Ratio
Max Ratio
TENDL Threshold 6.5106 MeV
CENDL3.2 Threshold 10.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
2.0
1.0
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
5
28-Ni-58

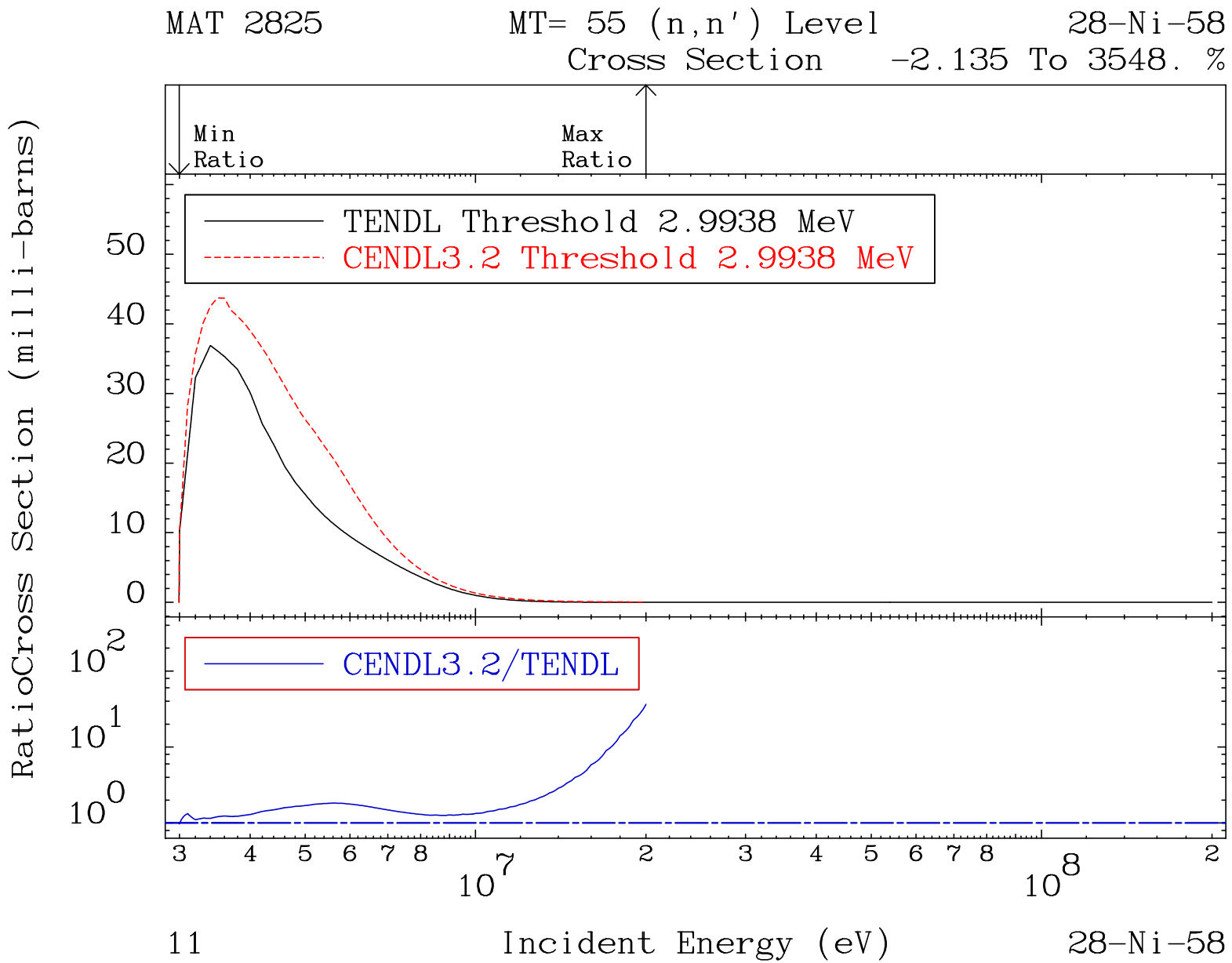

MAT 2825
(n,n') p
Cross Section
28-Ni-58
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 8.3145 MeV
CENDL3.2 Threshold 8.3196 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.0
0.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
6
28-Ni-58

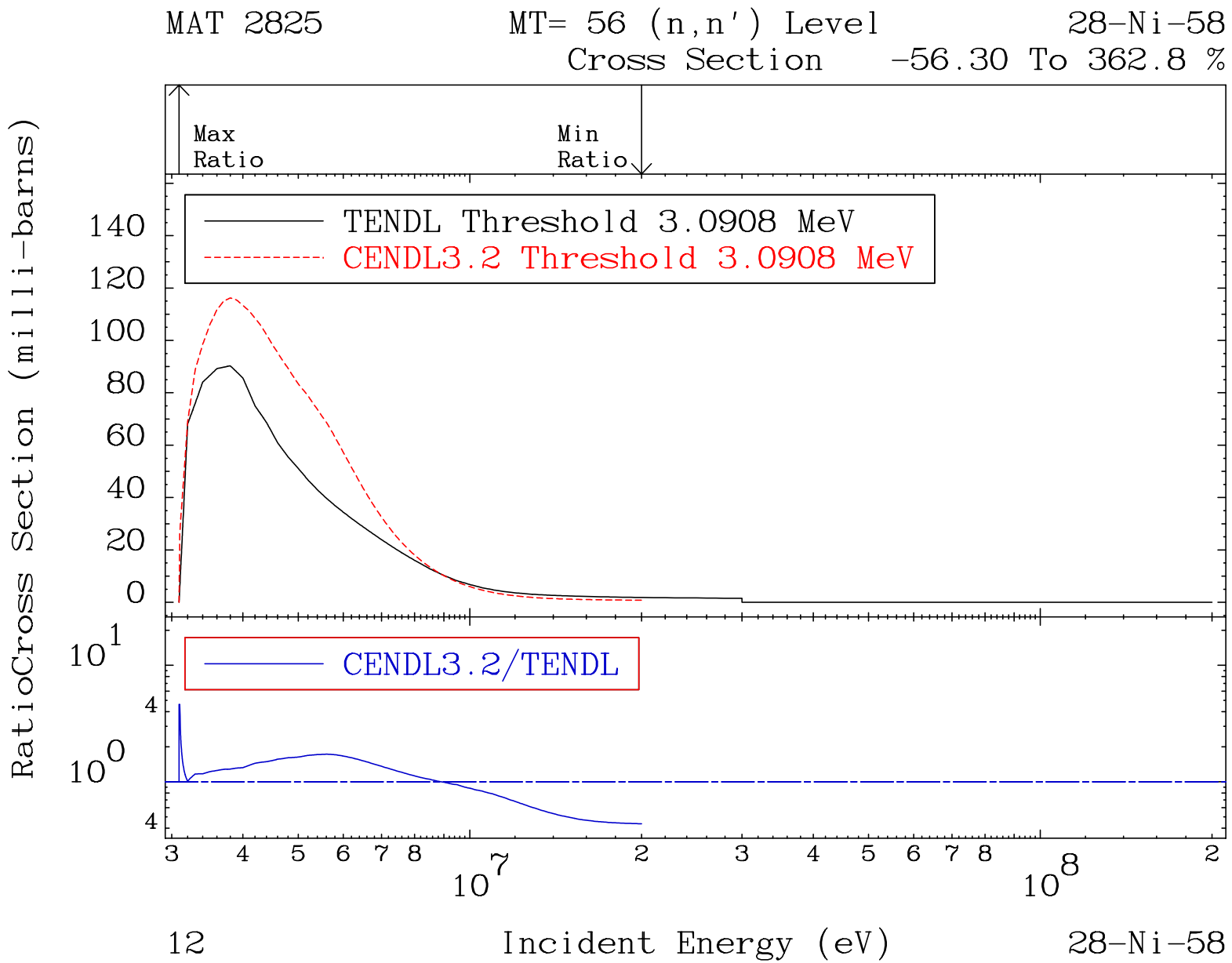

MAT 2825
MT= 51 (n,n') Level
28-Ni-58
Cross Section -16.42 To 217.8 %
Min
Ratio
TENDL Threshold 1.4795 MeV
CENDL3.2 Threshold 1.4795 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
3.0
1.5
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
7
Incident Energy (eV)
28-Ni-58

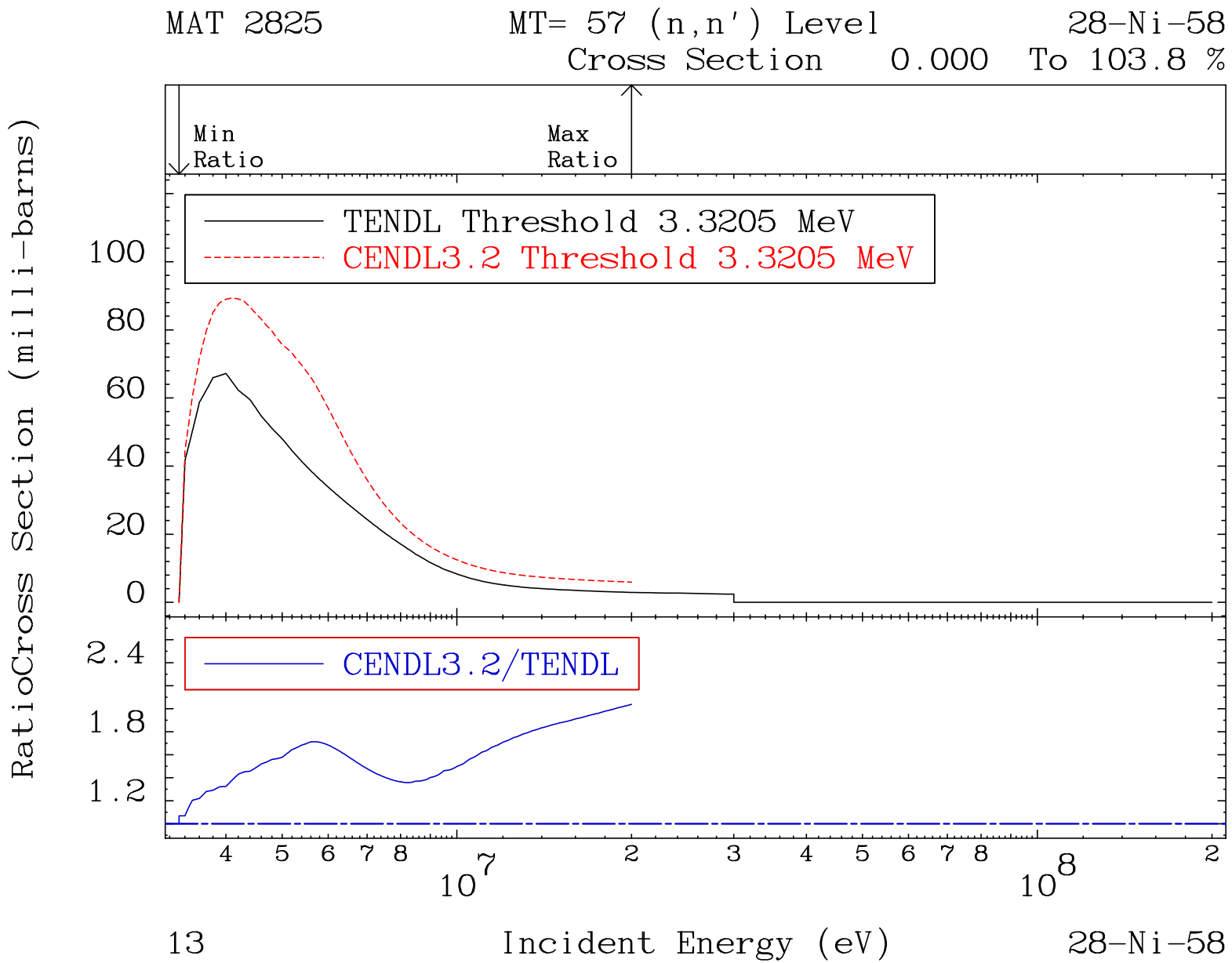

MAT 2825
MT= 52 (n,n') Level
28-Ni-58
Cross Section -0.503 To 142.4 %
Min Ratio
Max Ratio
TENDL Threshold 2.5020 MeV
CENDL3.2 Threshold 2.5020 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
120
80
40
0
3.0
2.0
1.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
8
Incident Energy (eV)
28-Ni-58

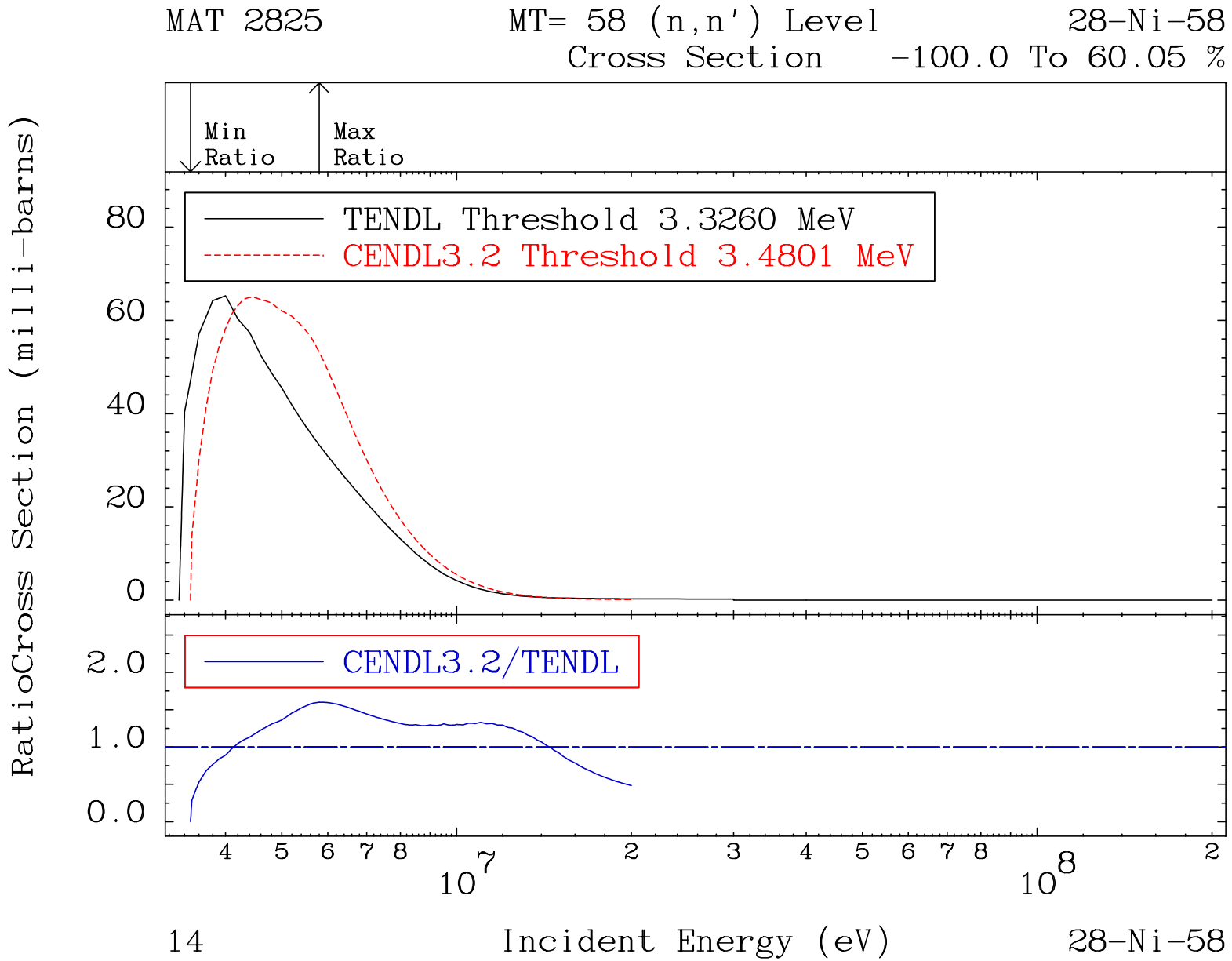

MAT 2825
MT= 53 (n,n') Level
28-Ni-58
Cross Section 0.000 To 1388. %
Min Ratio
Max Ratio
TENDL Threshold 2.8237 MeV
CENDL3.2 Threshold 2.8237 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
10^1
10^0
4
4
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
9
Incident Energy (eV)
28-Ni-58

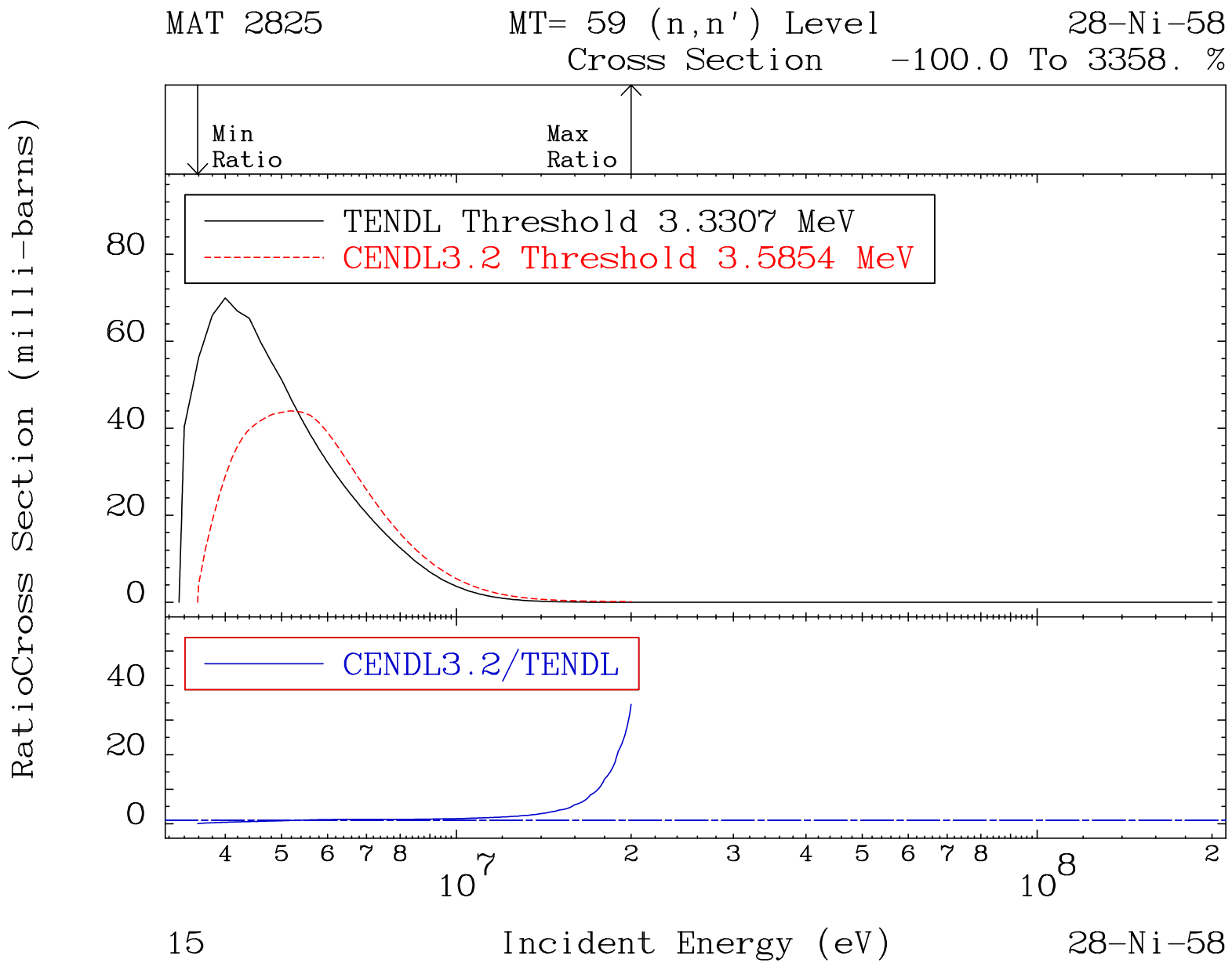

MAT 2825
MT= 54 (n,n') Level
28-Ni-58
Cross Section -9.885 To 3637. %
Min Ratio
Max Ratio
TENDL Threshold 2.9527 MeV
CENDL3.2 Threshold 2.9527 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
10^2
10^1
10^0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
10
Incident Energy (eV)
28-Ni-58

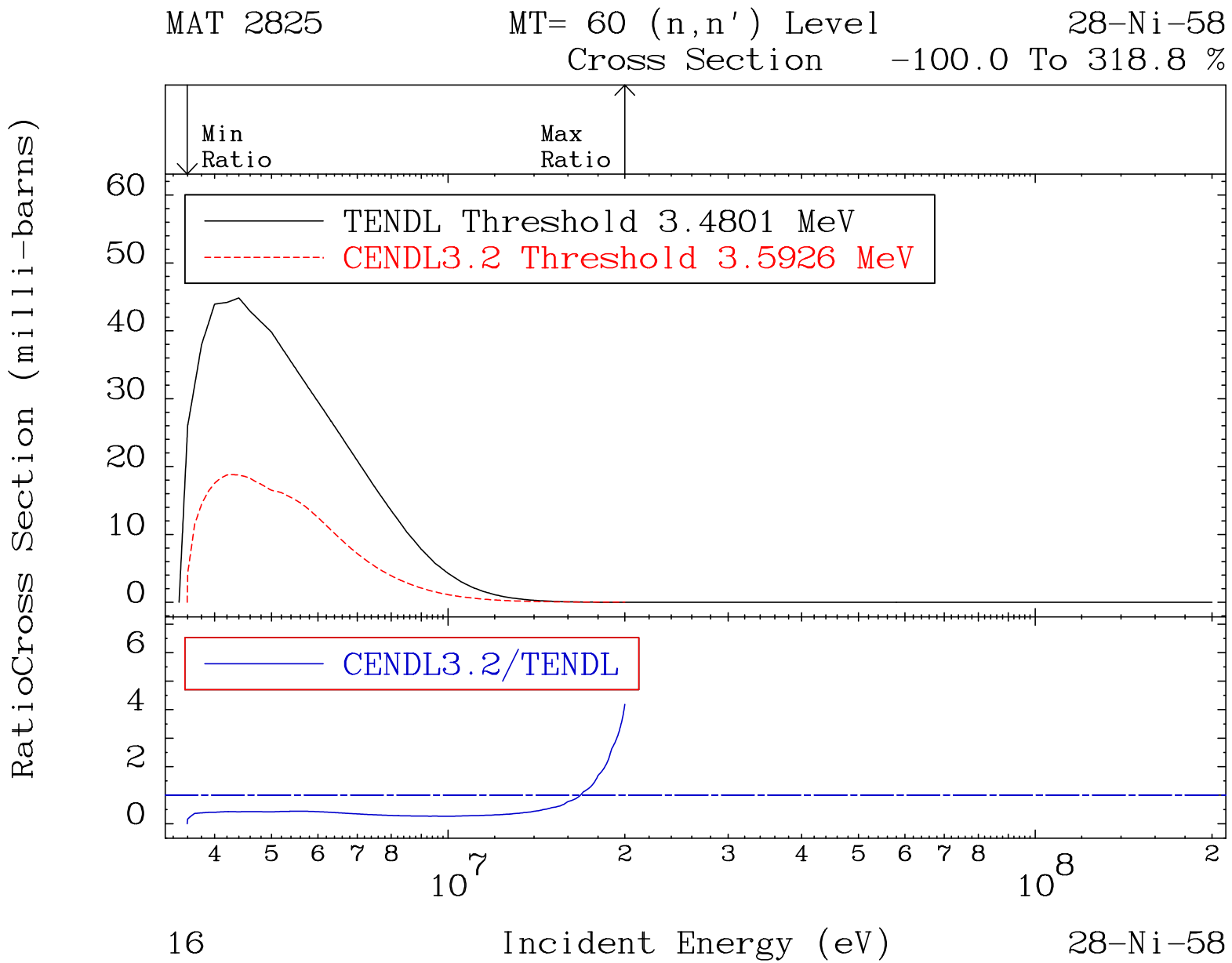

MAT 2825
MT= 55 (n,n') Level
28-Ni-58
Cross Section -2.135 To 3548. %
Min Ratio
Max Ratio
TENDL Threshold 2.9938 MeV
CENDL3.2 Threshold 2.9938 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
10^2
10^1
10^0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
28-Ni-58

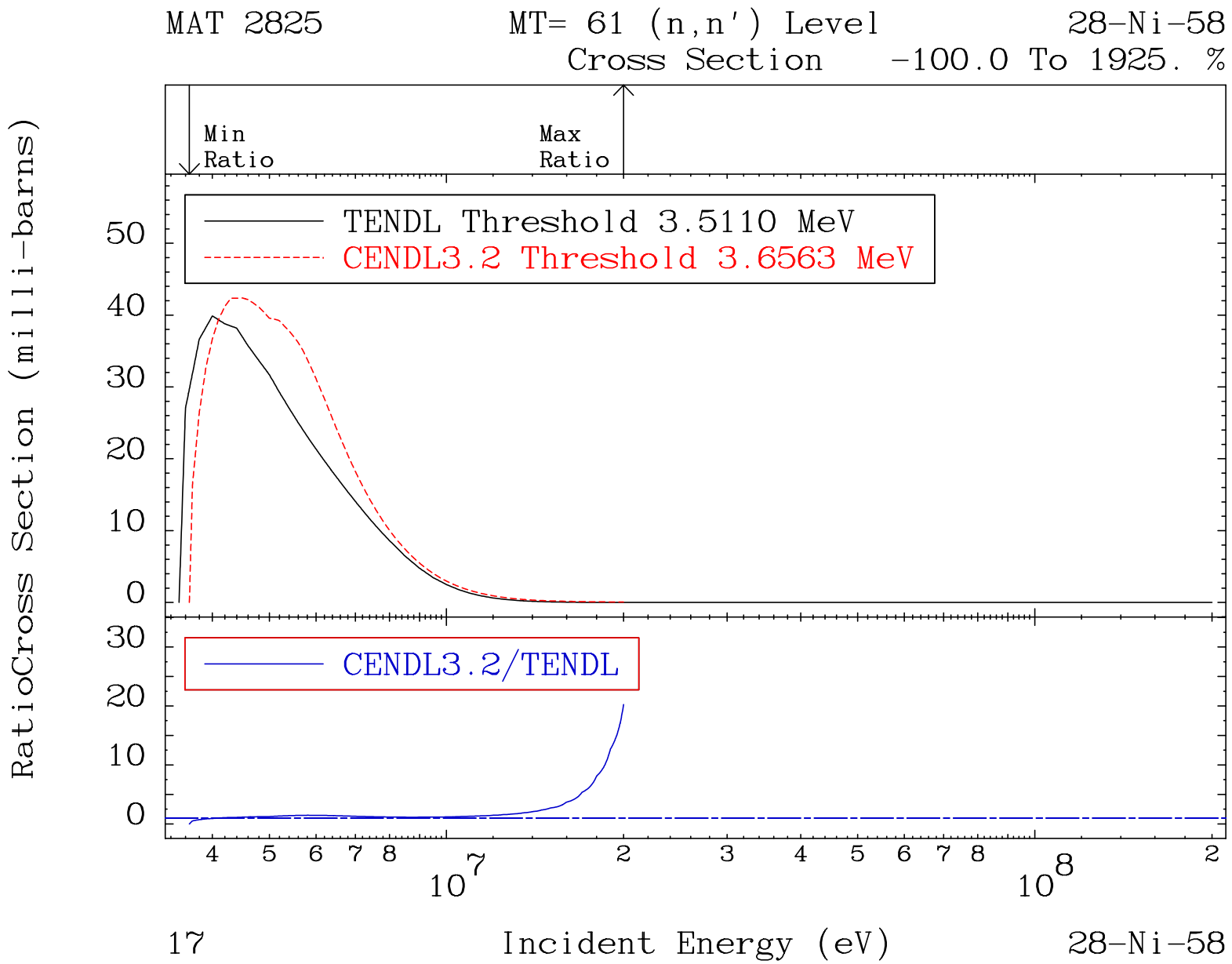

MAT 2825
MT= 56 (n,n') Level
28-Ni-58
Cross Section -56.30 To 362.8 %
Max Ratio
Min Ratio
TENDL Threshold 3.0908 MeV
CENDL3.2 Threshold 3.0908 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
10^1
10^0
4
4
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
12
Incident Energy (eV)
28-Ni-58

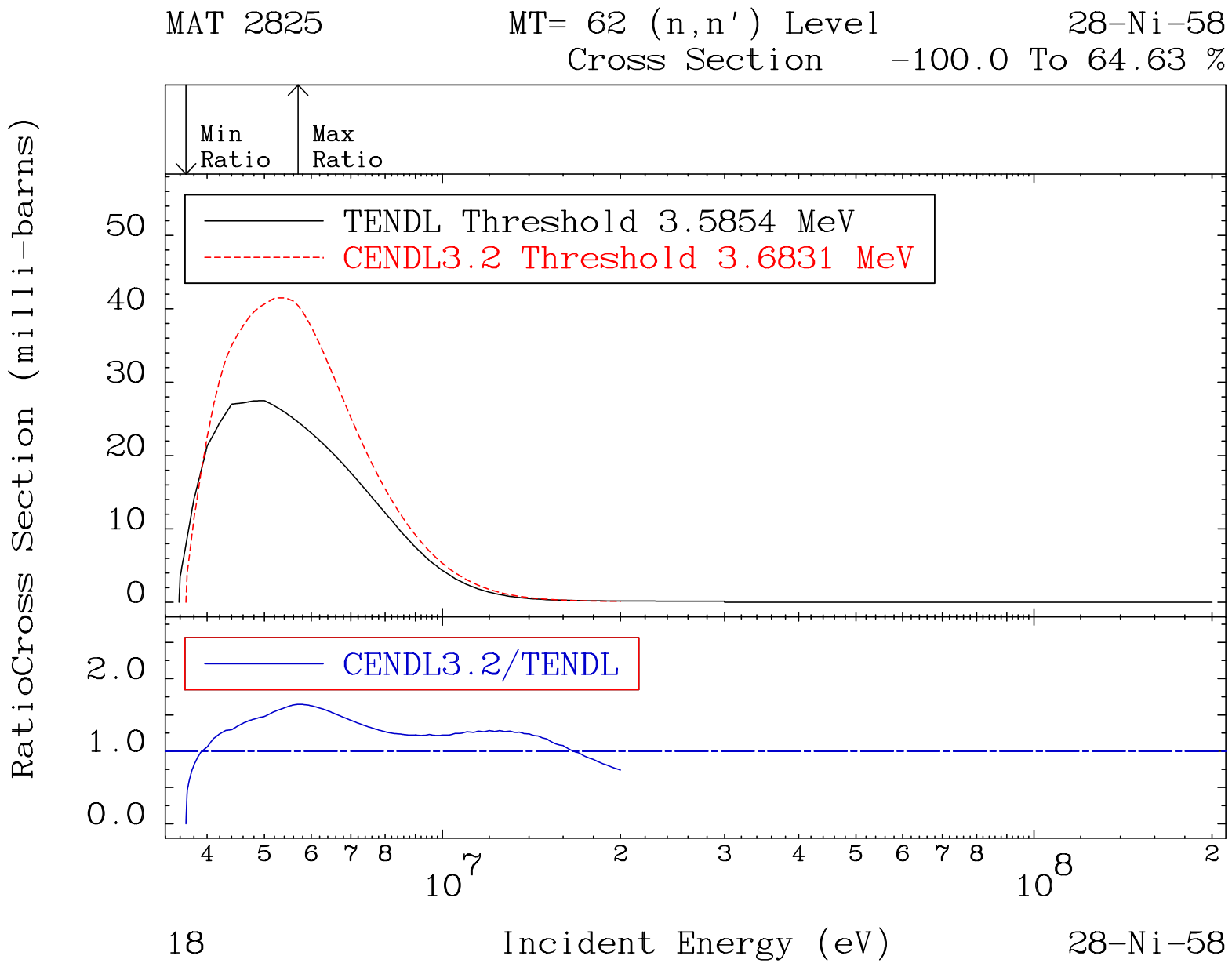

MAT 2825
MT= 57 (n,n') Level
28-Ni-58
Cross Section 0.000 To 103.8 %
Min Ratio
Max Ratio
TENDL Threshold 3.3205 MeV
CENDL3.2 Threshold 3.3205 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.4
1.8
1.2
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
28-Ni-58

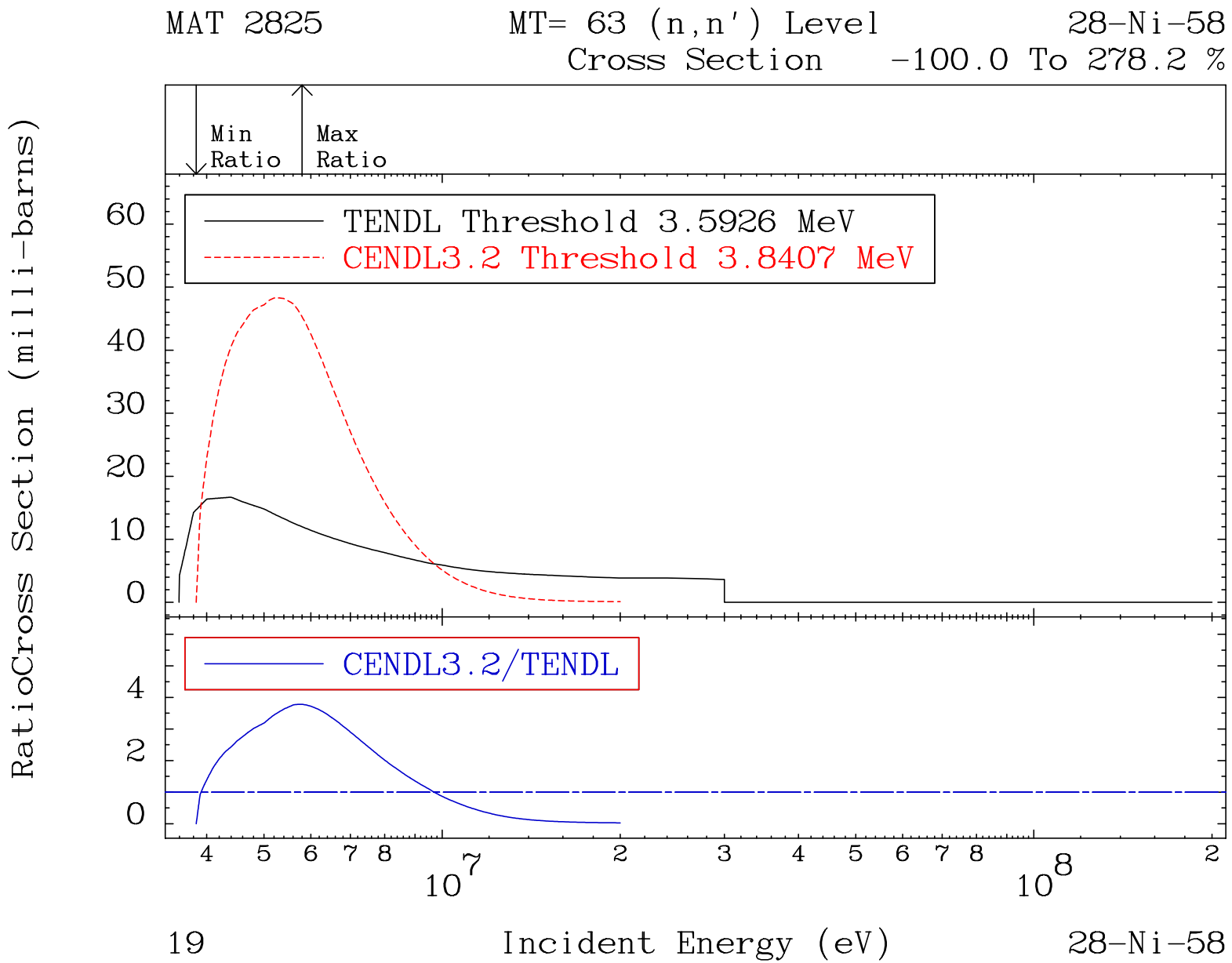

MAT 2825
MT= 58 (n,n') Level
28-Ni-58
Cross Section -100.0 To 60.05 %
Min Ratio
Max Ratio
TENDL Threshold 3.3260 MeV
CENDL3.2 Threshold 3.4801 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
14
Incident Energy (eV)
28-Ni-58

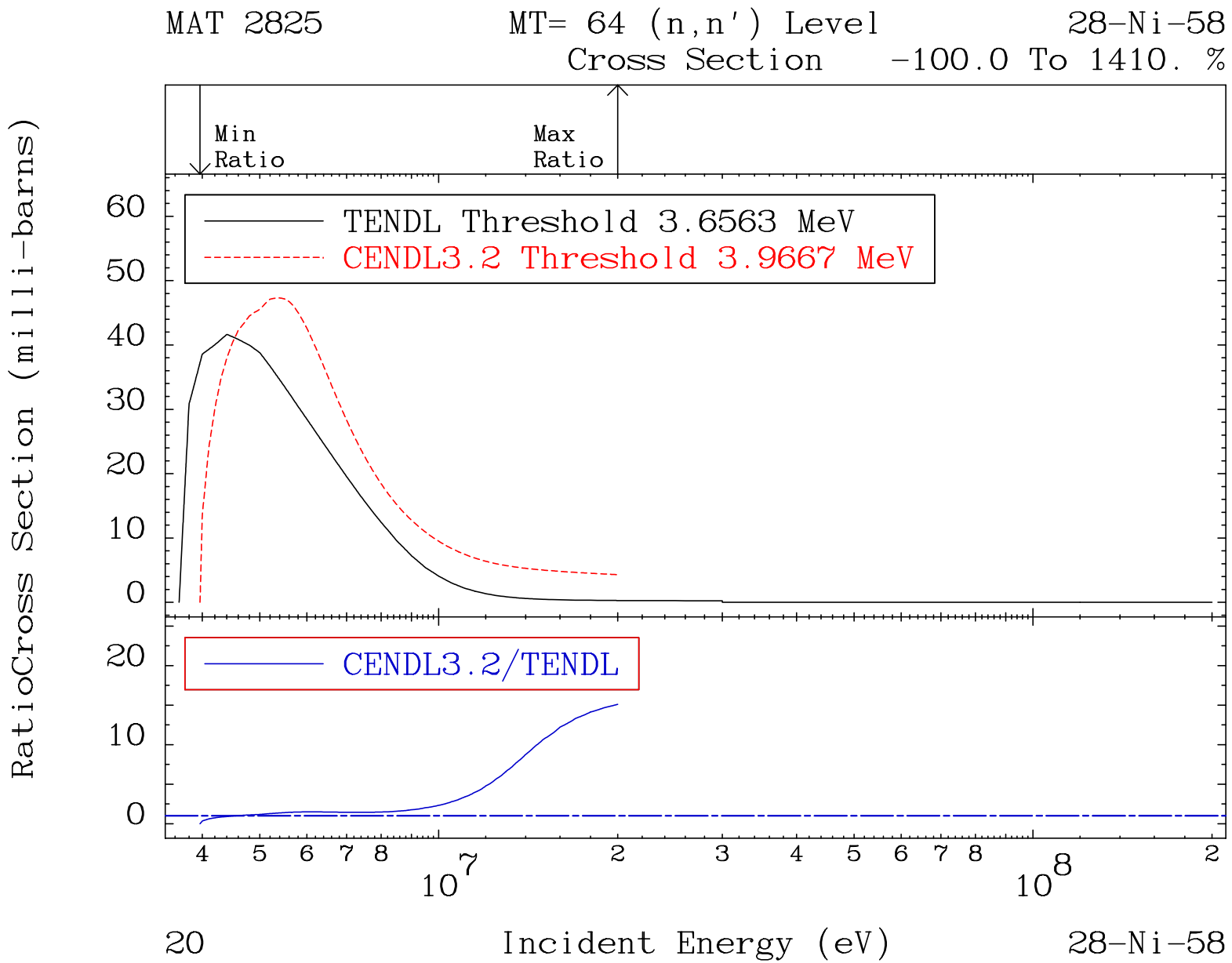

MAT 2825
MT= 59 (n,n') Level
28-Ni-58
Cross Section -100.0 To 3358. %
Min Ratio
Max Ratio
TENDL Threshold 3.3307 MeV
CENDL3.2 Threshold 3.5854 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
40
20
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
15
Incident Energy (eV)
28-Ni-58

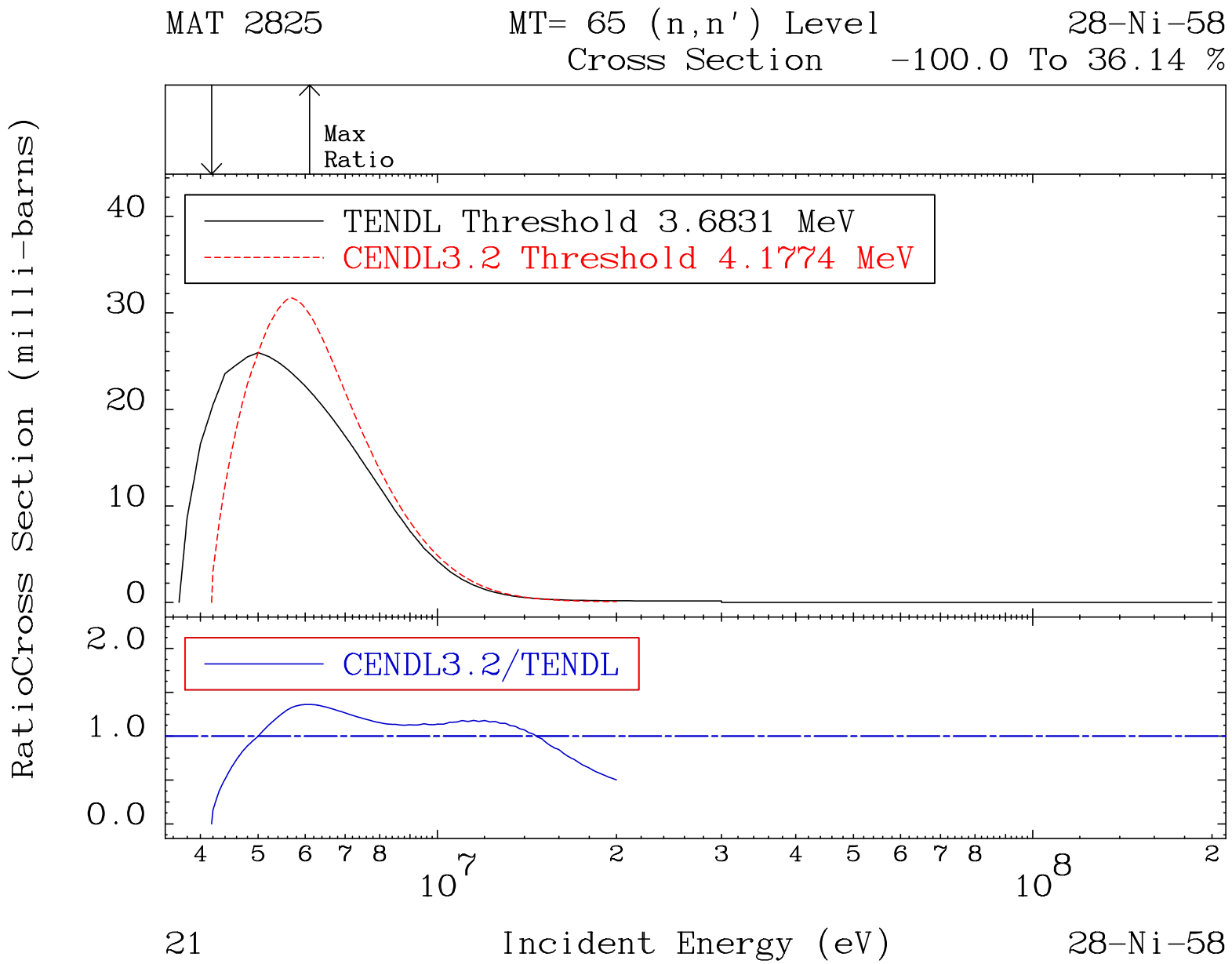

MAT 2825
MT= 60 (n,n') Level
28-Ni-58
Cross Section -100.0 To 318.8 %
Min Ratio
Max Ratio
TENDL Threshold 3.4801 MeV
CENDL3.2 Threshold 3.5926 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
16
28-Ni-58

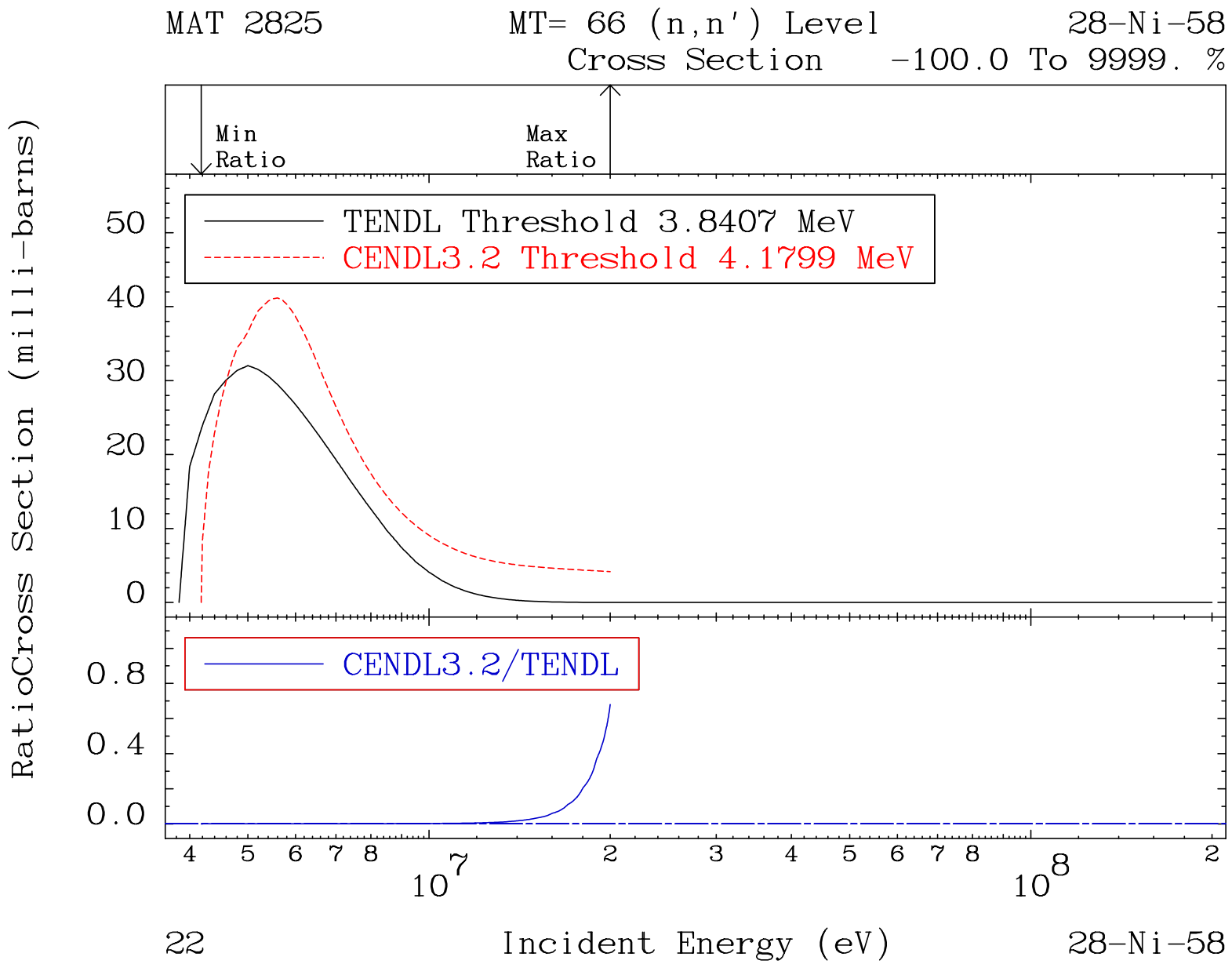

MAT 2825
MT= 61 (n,n') Level
28-Ni-58
Cross Section -100.0 To 1925. %
Min Ratio
Max Ratio
TENDL Threshold 3.5110 MeV
CENDL3.2 Threshold 3.6563 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
30
20
10
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
28-Ni-58

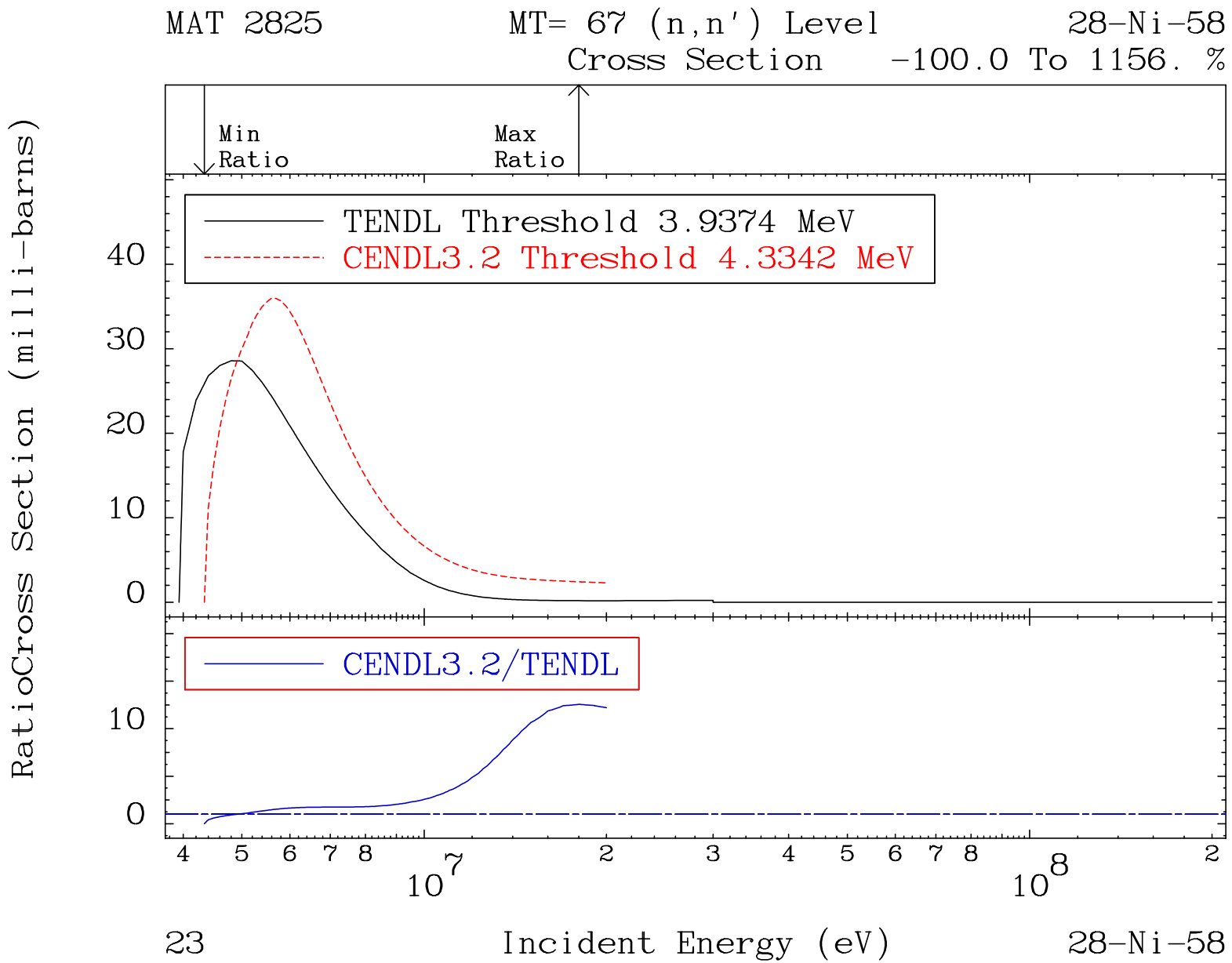

MAT 2825
MT= 62 (n,n') Level
28-Ni-58
Cross Section
-100.0 To 64.63 %
Min Ratio
Max Ratio
TENDL Threshold 3.5854 MeV
CENDL3.2 Threshold 3.6831 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
2.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
28-Ni-58

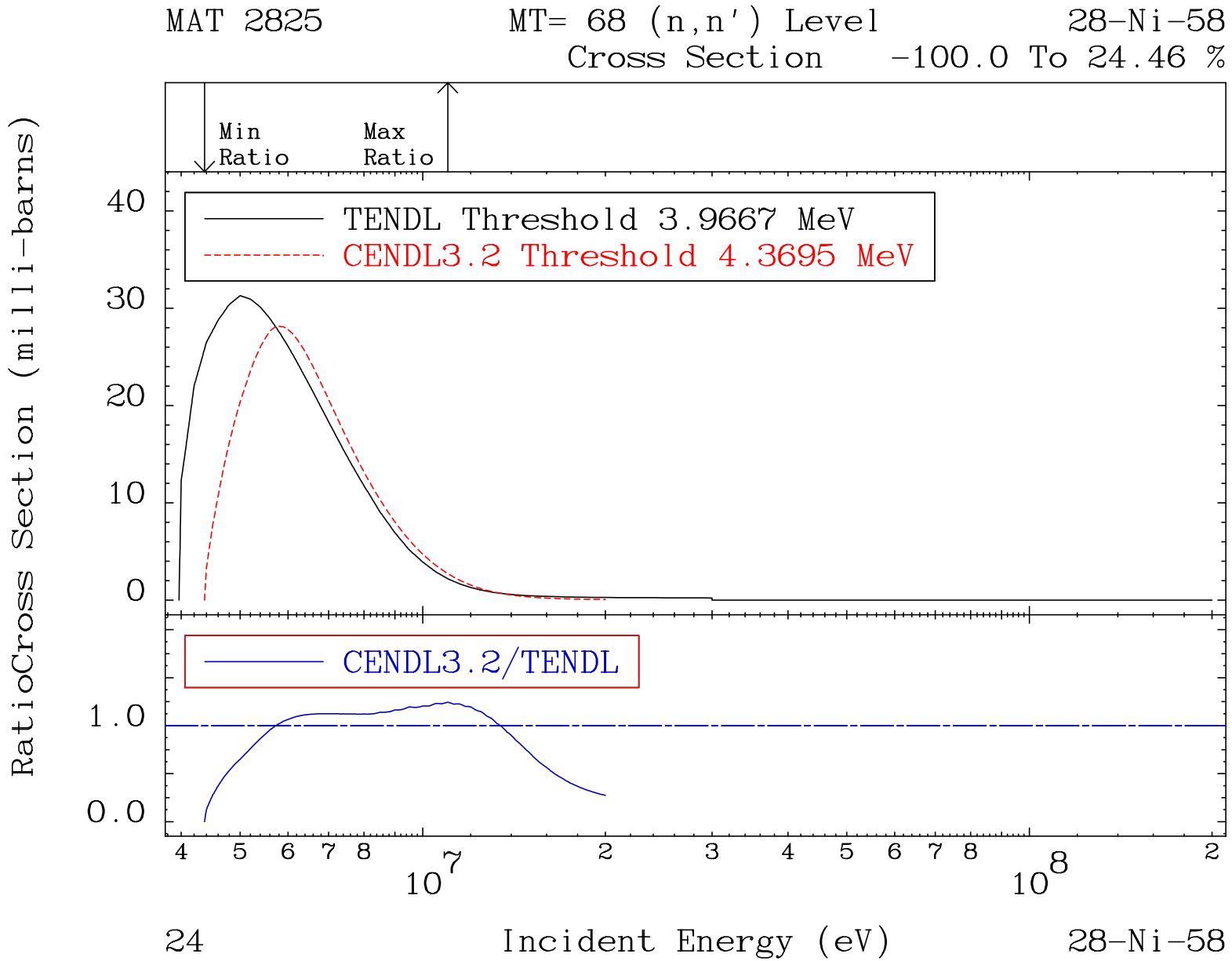

MAT 2825
MT= 63 (n,n') Level
28-Ni-58
Cross Section -100.0 To 278.2 %
Min Ratio
Max Ratio
TENDL Threshold 3.5926 MeV
CENDL3.2 Threshold 3.8407 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
4
2
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
19
28-Ni-58

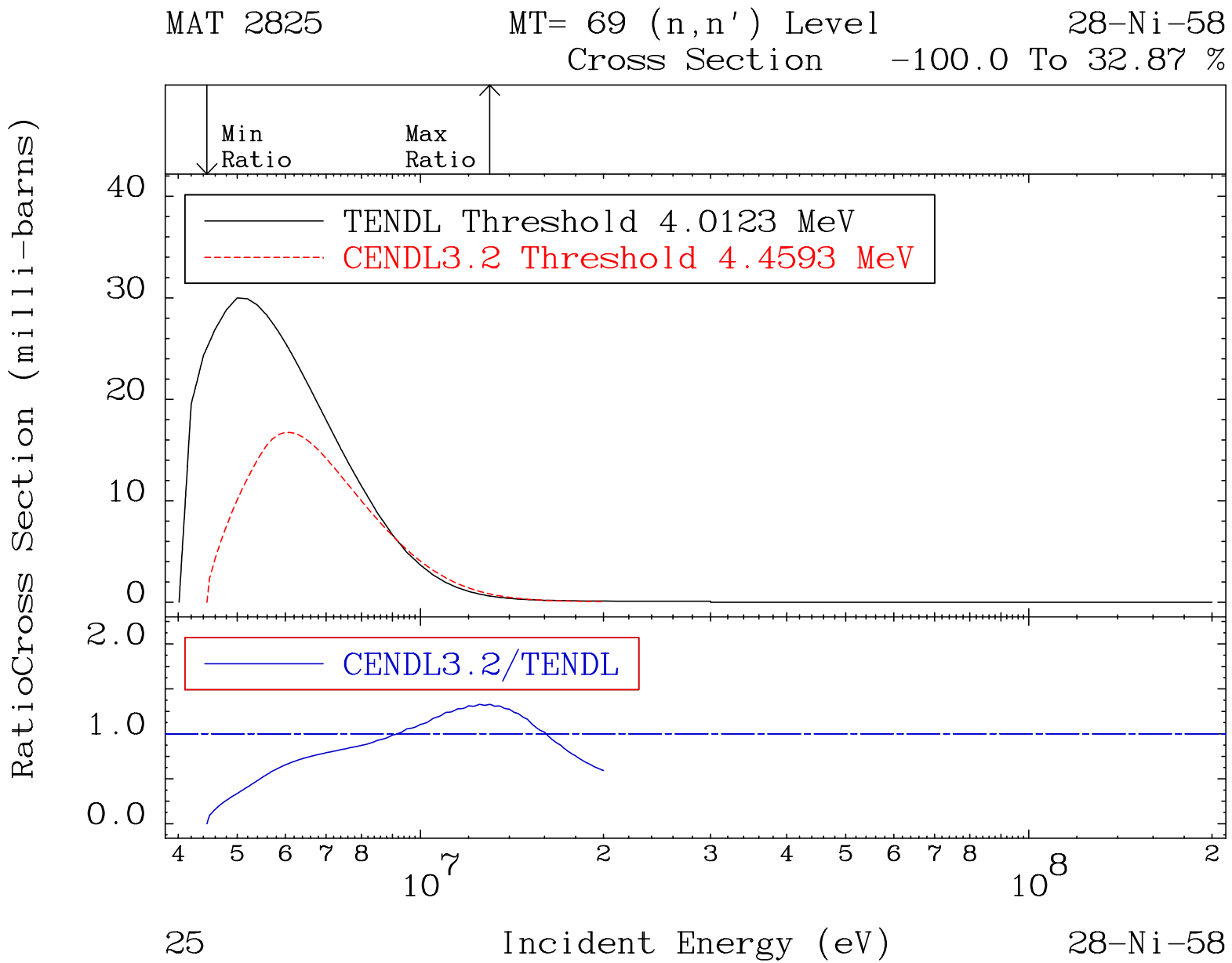

MAT 2825
MT= 64 (n,n') Level
28-Ni-58
Cross Section -100.0 To 1410. %
Min Ratio
Max Ratio
TENDL Threshold 3.6563 MeV
CENDL3.2 Threshold 3.9667 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
20
28-Ni-58

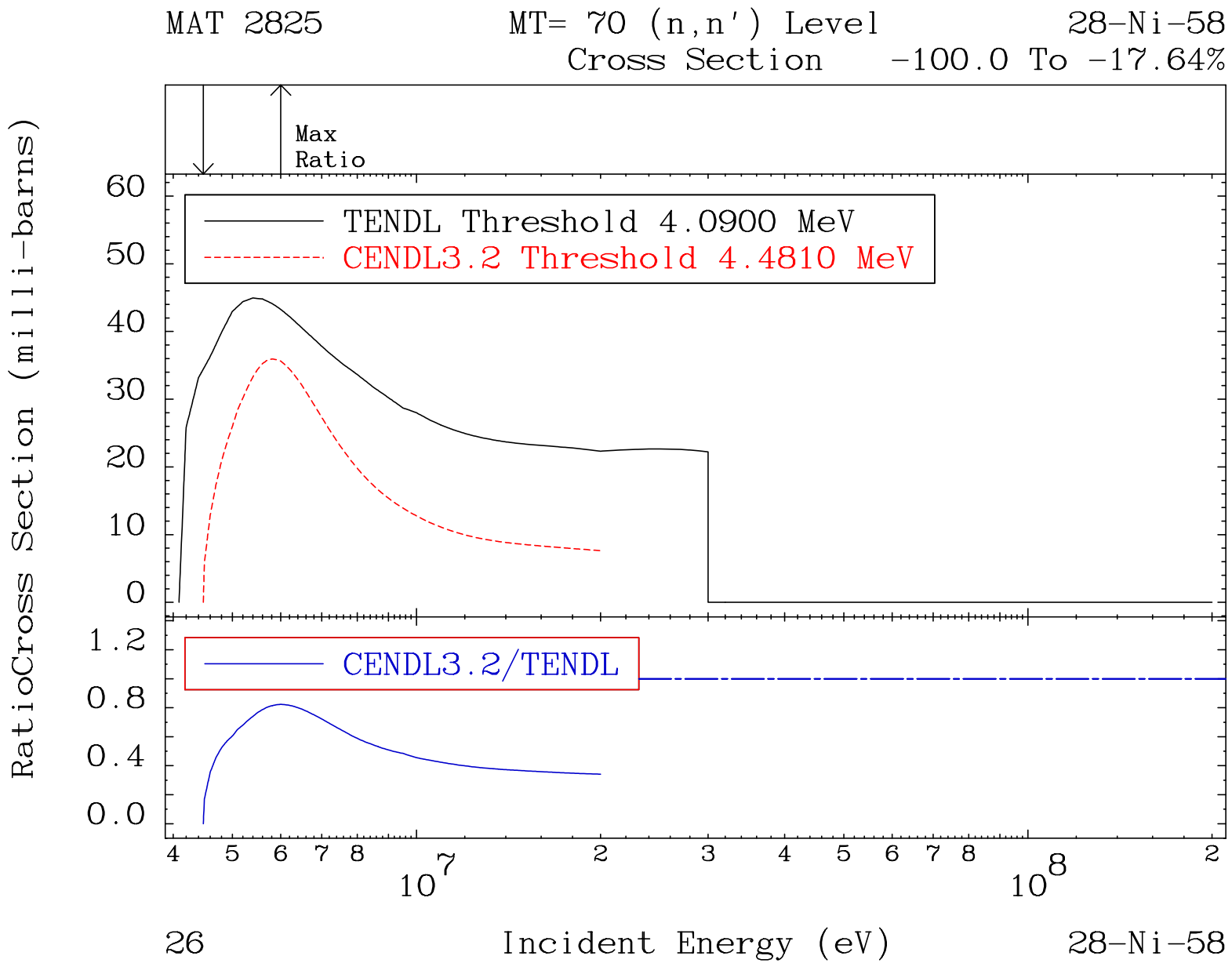

MAT 2825
MT= 65 (n,n') Level
28-Ni-58
Cross Section -100.0 To 36.14 %
Max
Ratio
TENDL Threshold 3.6831 MeV
CENDL3.2 Threshold 4.1774 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
2.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
28-Ni-58

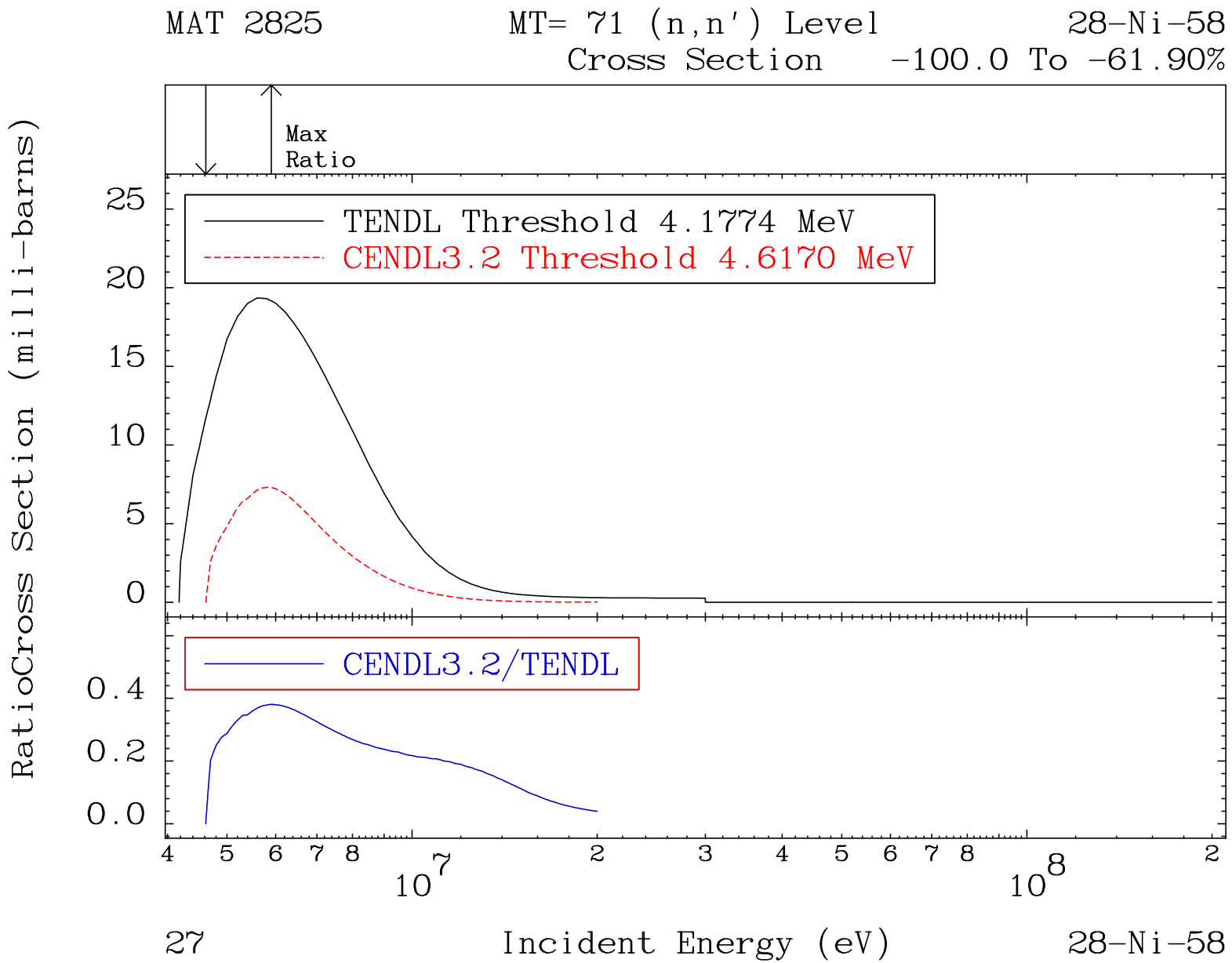

MAT 2825
MT= 66 (n,n') Level
28-Ni-58
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.8407 MeV
CENDL3.2 Threshold 4.1799 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
0.8
0.4
0.0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
28-Ni-58

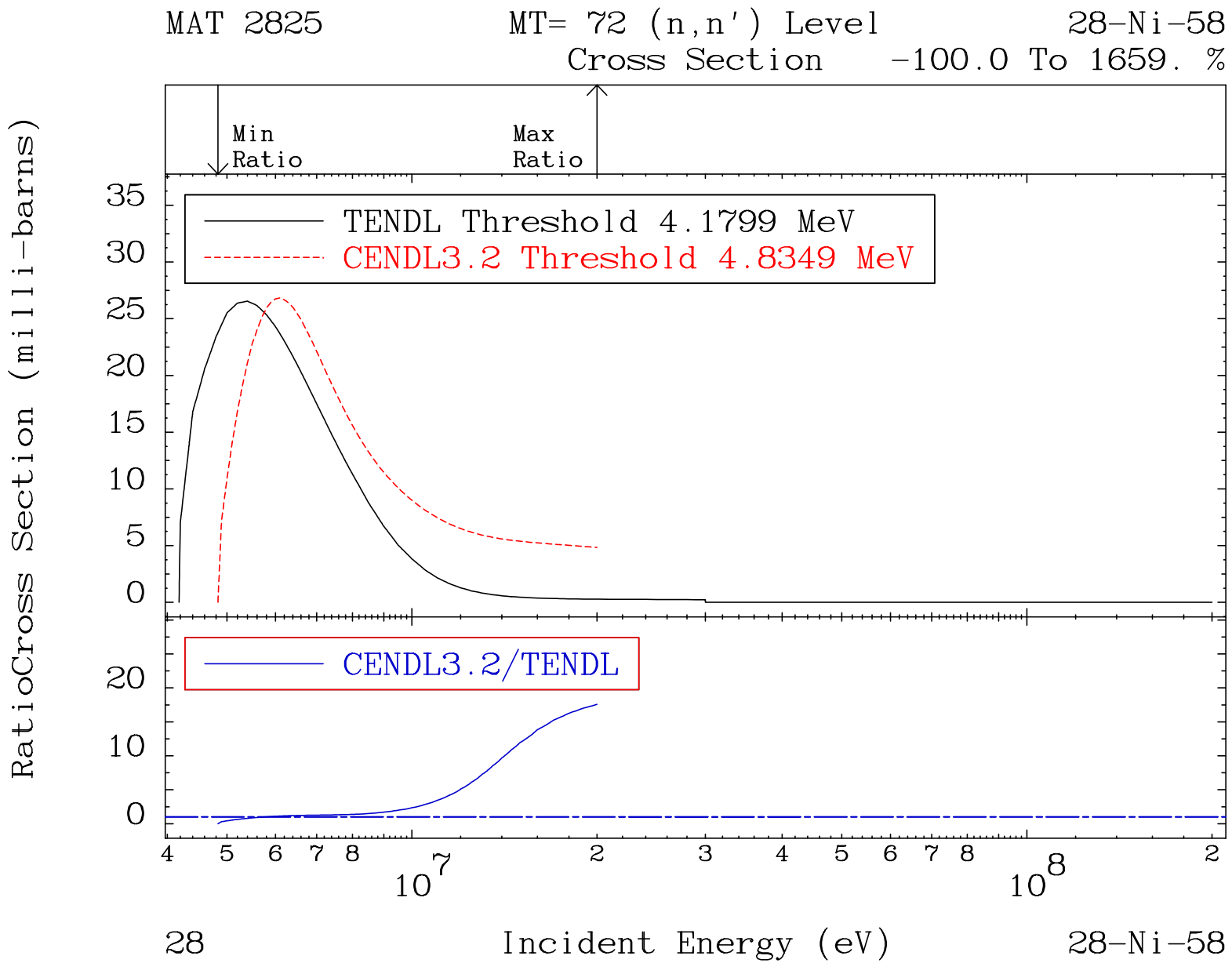

MAT 2825
MT= 67 (n,n') Level
28-Ni-58
Cross Section -100.0 To 1156. %
Min Ratio
Max Ratio
TENDL Threshold 3.9374 MeV
CENDL3.2 Threshold 4.3342 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
10
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
28-Ni-58

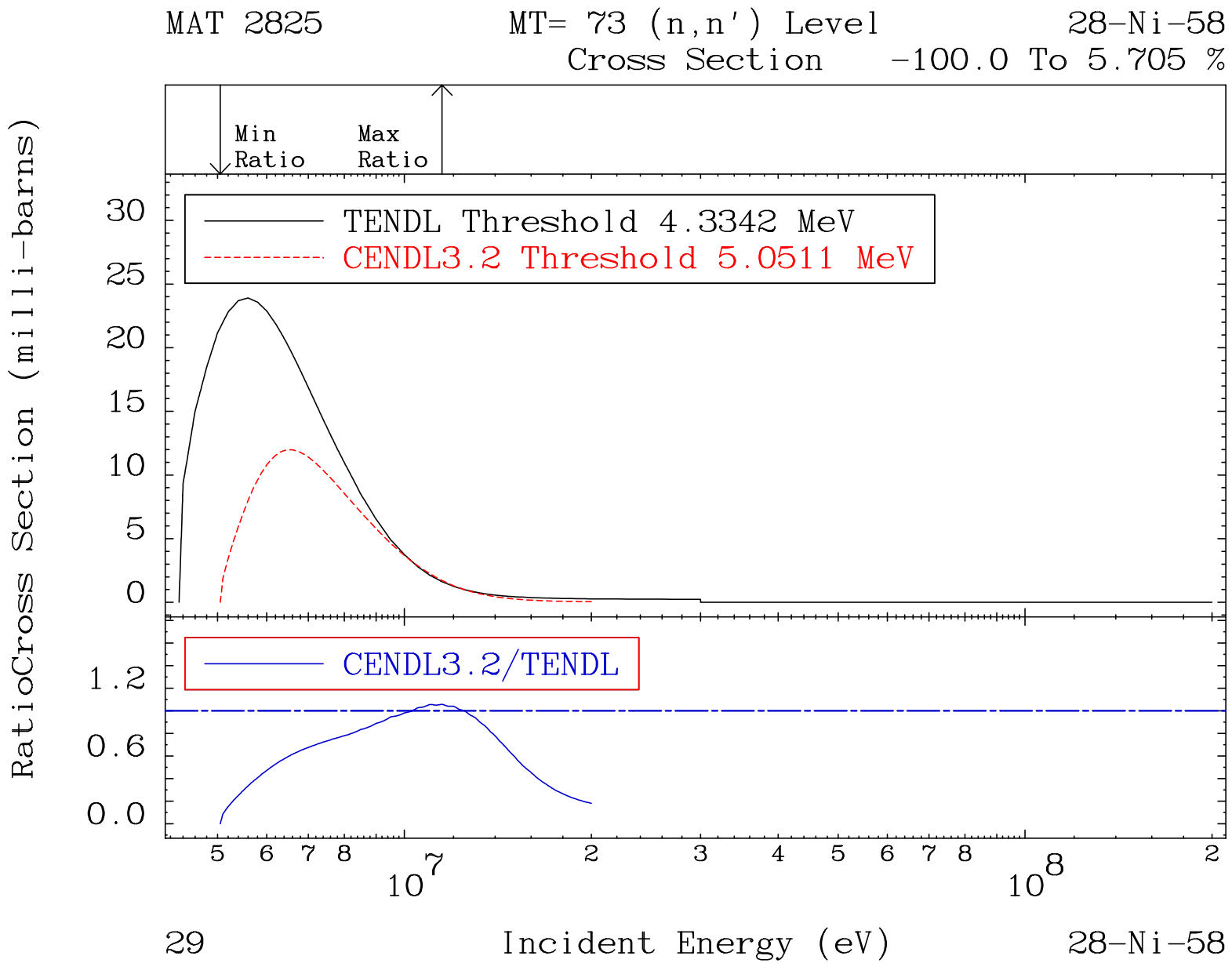

MAT 2825
MT= 68 (n,n') Level
28-Ni-58
Cross Section -100.0 To 24.46 %
Min Ratio
Max Ratio
TENDL Threshold 3.9667 MeV
CENDL3.2 Threshold 4.3695 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
1.0
0.0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
28-Ni-58

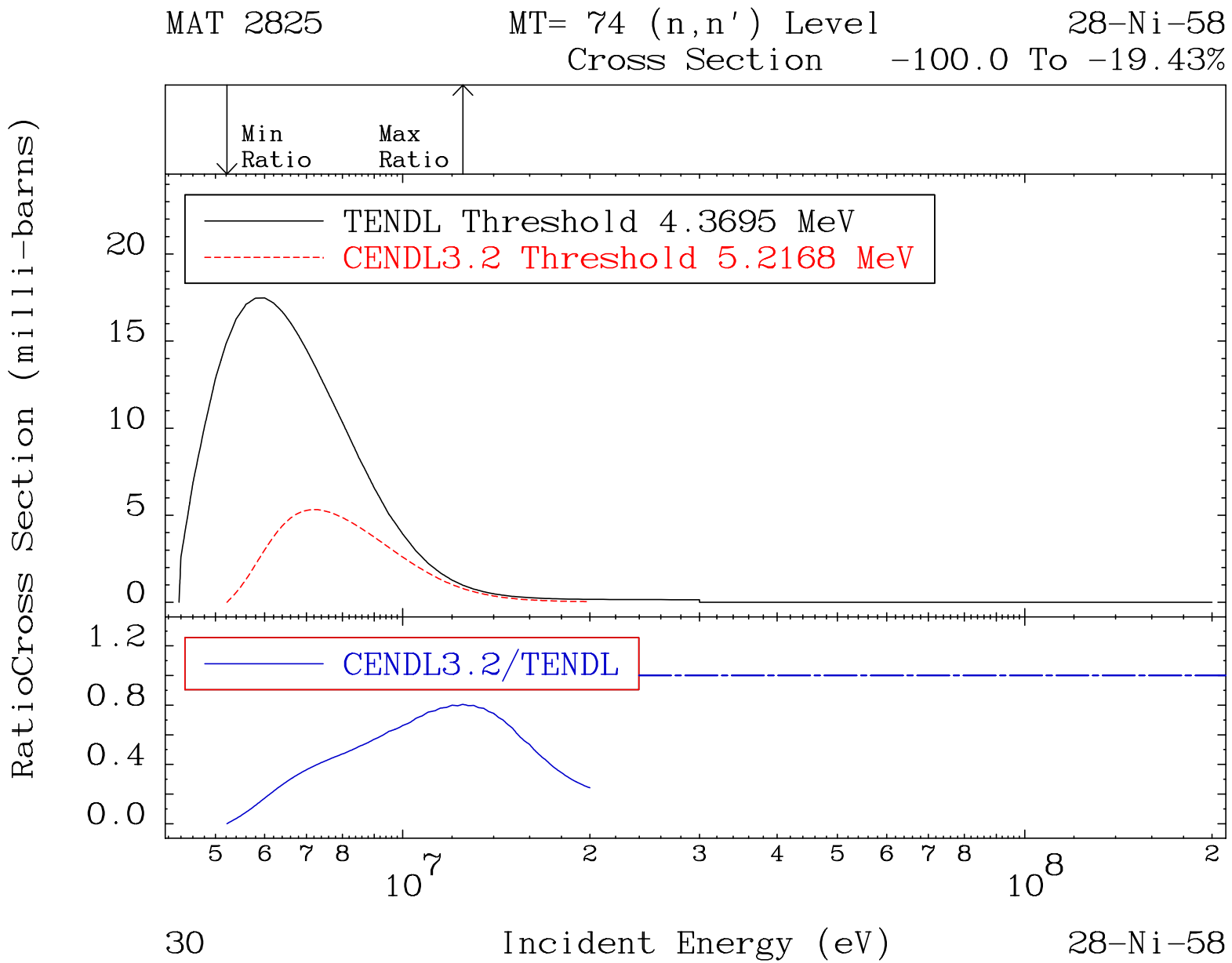

MAT 2825
MT= 69 (n,n') Level
28-Ni-58
Cross Section -100.0 To 32.87 %
Min Ratio
Max Ratio
TENDL Threshold 4.0123 MeV
CENDL3.2 Threshold 4.4593 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
2.0
1.0
0.0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
25
Incident Energy (eV)
28-Ni-58

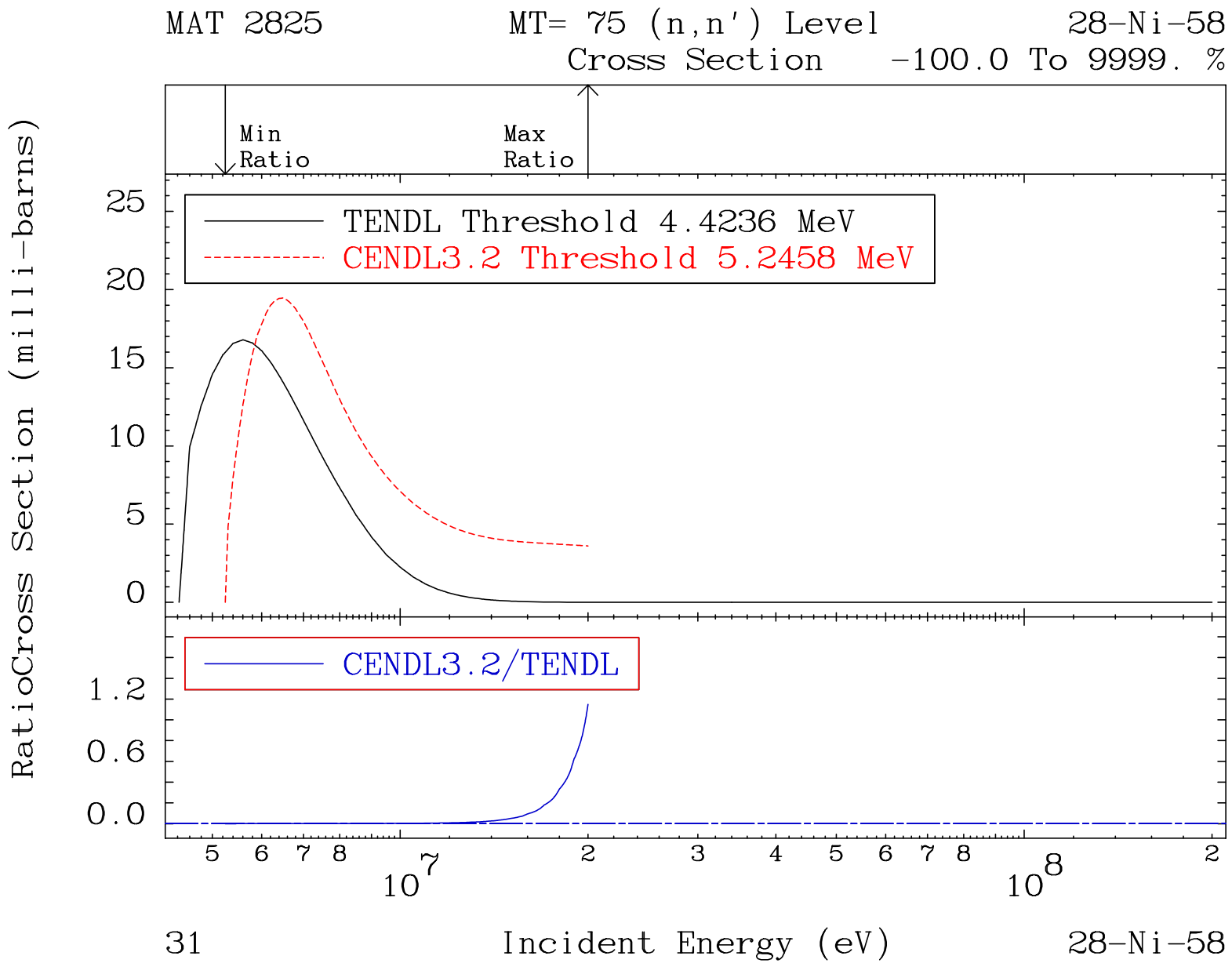

MAT 2825
MT= 70 (n,n') Level
28-Ni-58
Cross Section -100.0 To -17.64%
Max
Ratio
TENDL Threshold 4.0900 MeV
CENDL3.2 Threshold 4.4810 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
1.2
0.8
0.4
0.0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
26
28-Ni-58

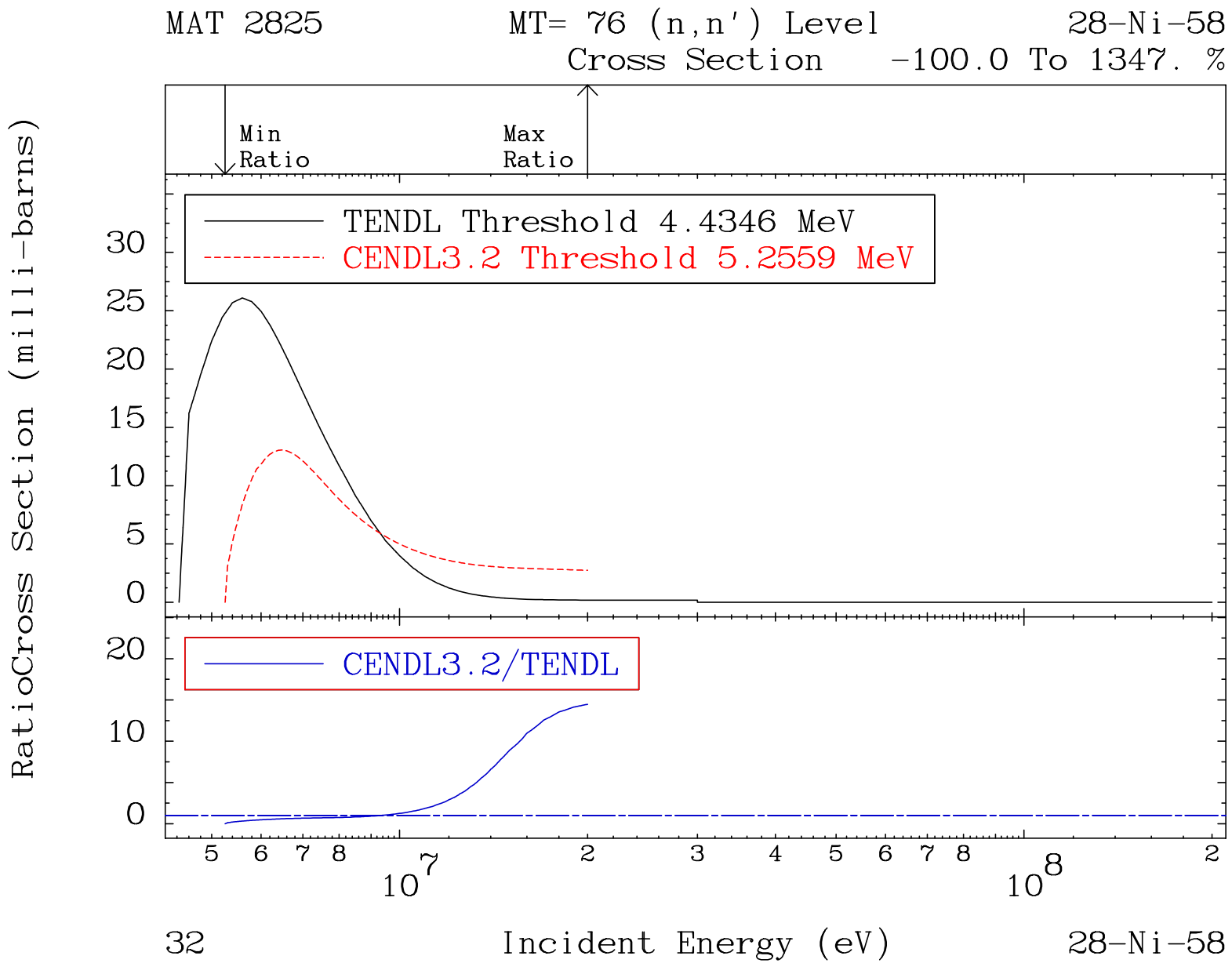

MAT 2825
MT= 71 (n,n') Level
28-Ni-58
Cross Section -100.0 To -61.90%
Max
Ratio
TENDL Threshold 4.1774 MeV
CENDL3.2 Threshold 4.6170 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
0.4
0.2
0.0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
28-Ni-58

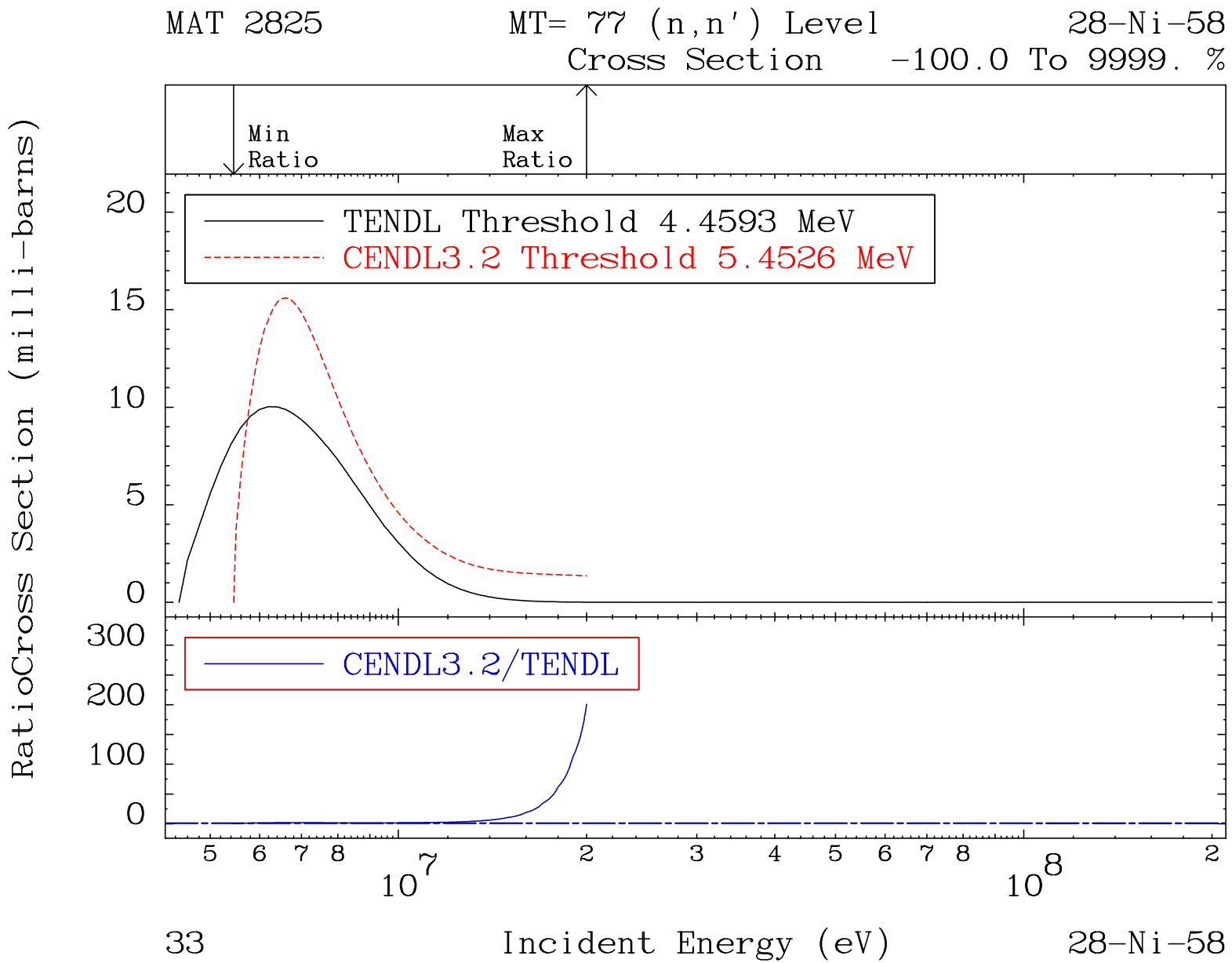

MAT 2825
MT= 72 (n,n') Level
28-Ni-58
Cross Section -100.0 To 1659. %
Min Ratio
Max Ratio
TENDL Threshold 4.1799 MeV
CENDL3.2 Threshold 4.8349 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
28
28-Ni-58

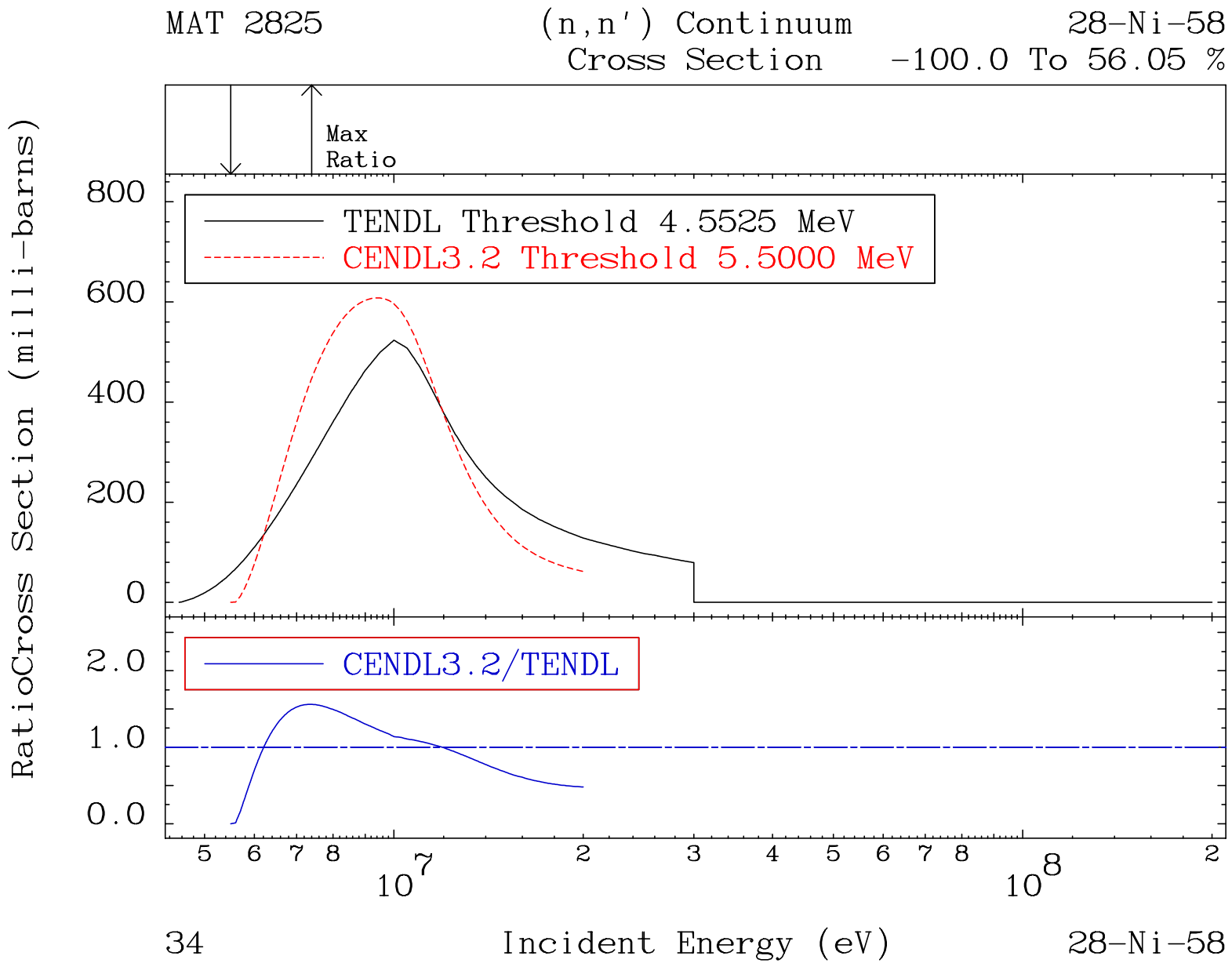

MAT 2825
MT= 73 (n,n') Level
28-Ni-58
Cross Section -100.0 To 5.705 %
Min Ratio
Max Ratio
TENDL Threshold 4.3342 MeV
CENDL3.2 Threshold 5.0511 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
1.2
0.6
0.0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
29
Incident Energy (eV)
28-Ni-58

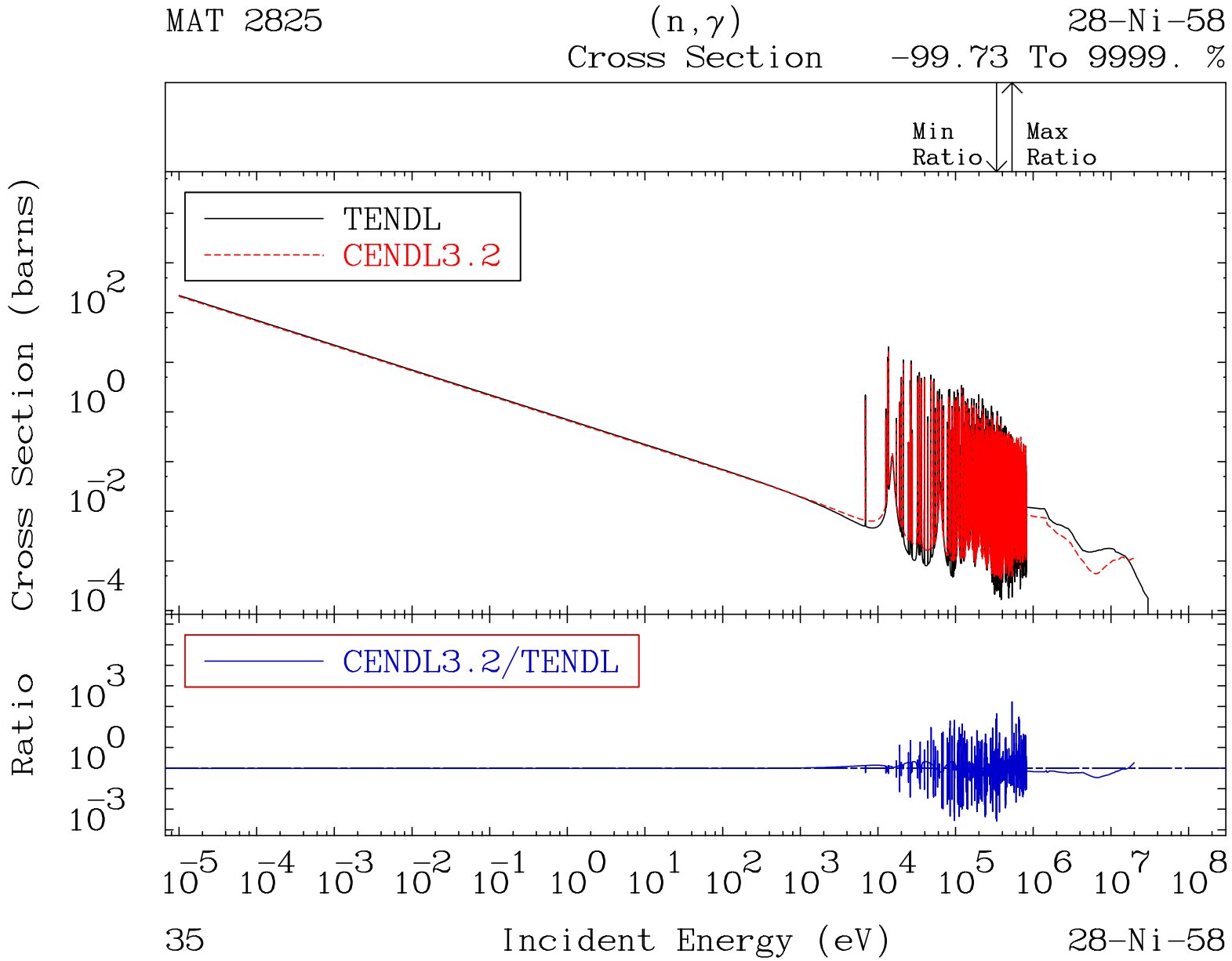

MAT 2825
MT= 74 (n,n') Level
28-Ni-58
Cross Section -100.0 To -19.43%
Min Ratio
Max Ratio
TENDL Threshold 4.3695 MeV
CENDL3.2 Threshold 5.2168 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
1.2
0.8
0.4
0.0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
28-Ni-58

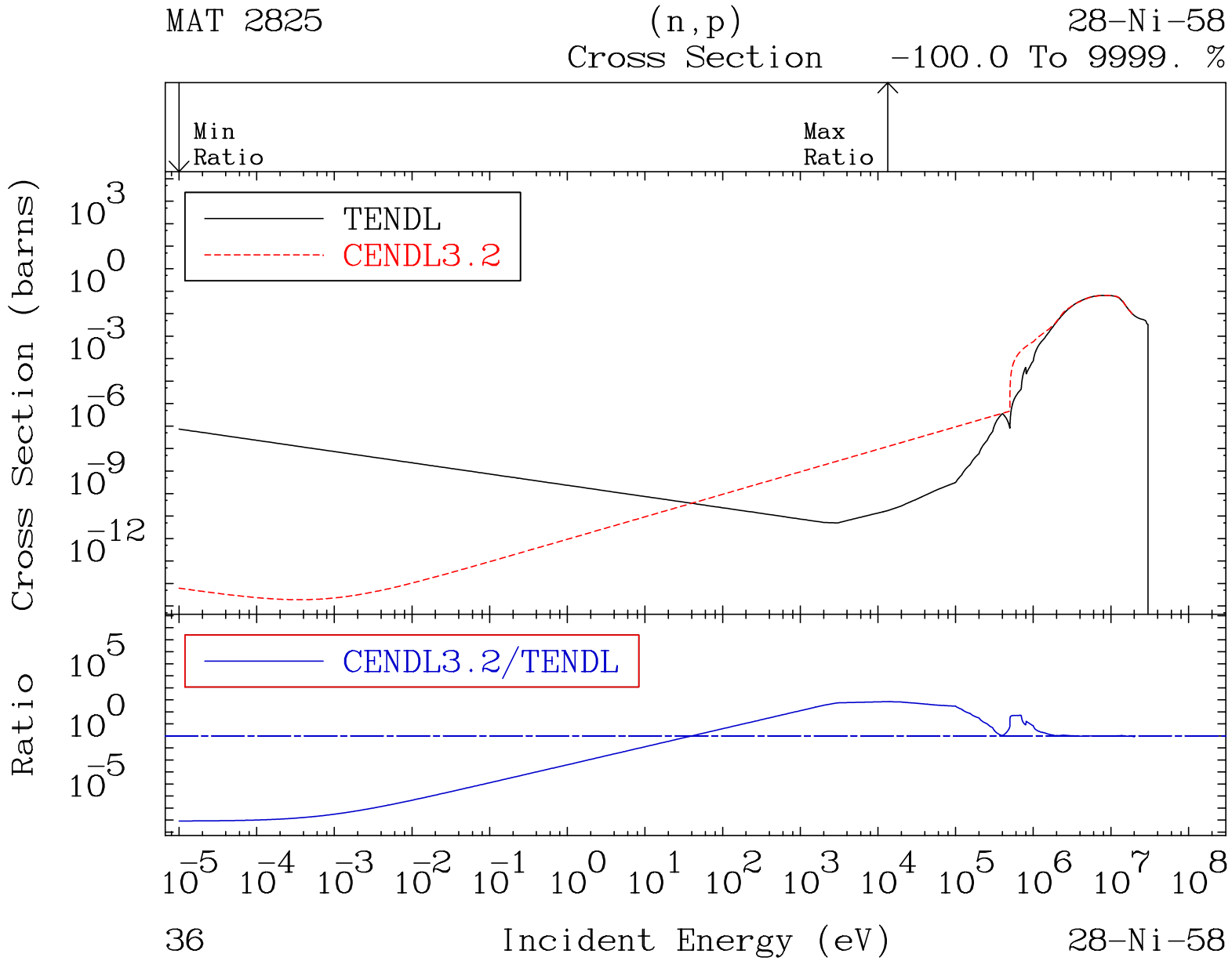

MAT 2825
MT= 75 (n,n') Level
28-Ni-58
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 4.4236 MeV
CENDL3.2 Threshold 5.2458 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
1.2
0.6
0.0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
31
Incident Energy (eV)
28-Ni-58

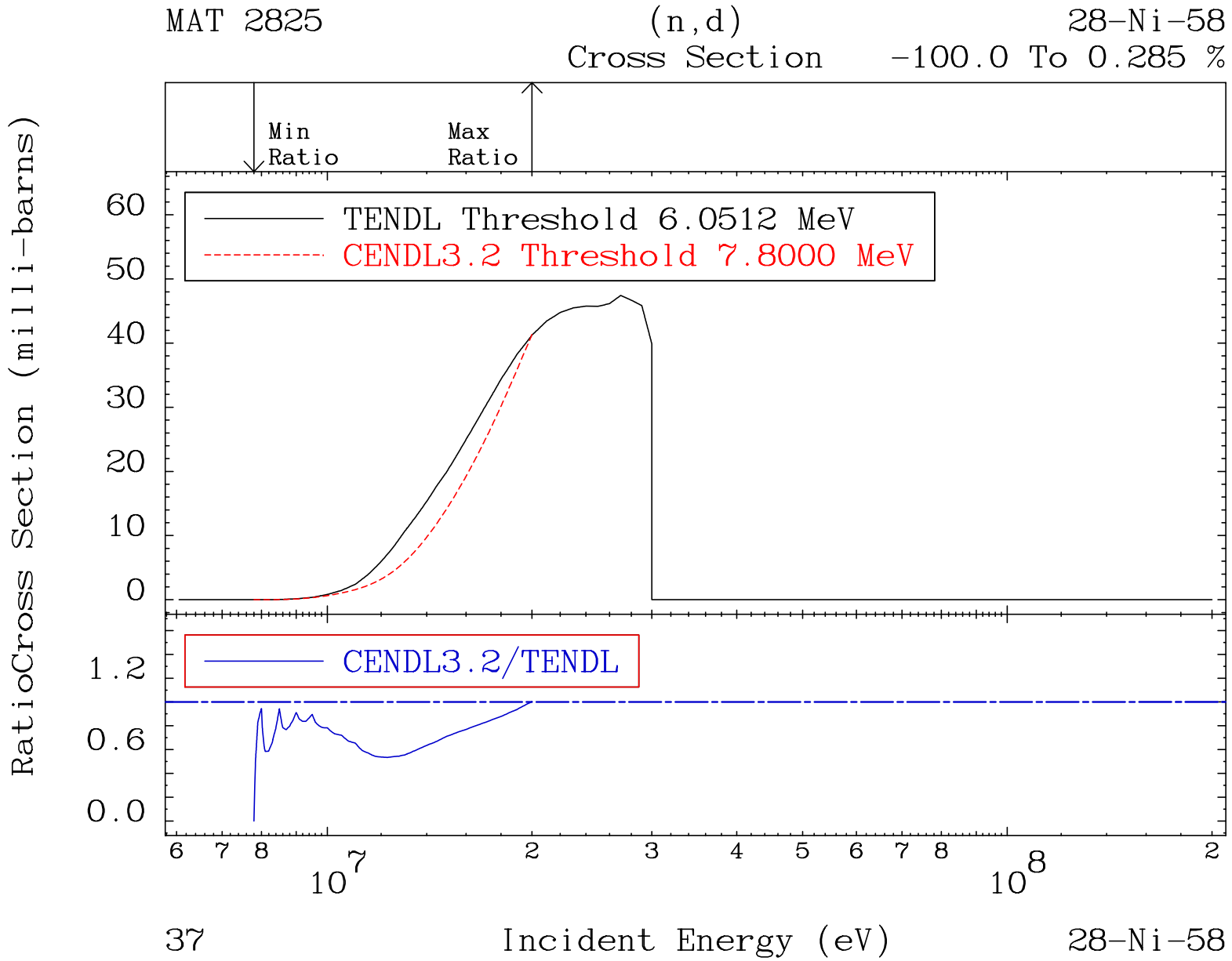

MAT 2825
MT= 76 (n,n') Level
28-Ni-58
Cross Section -100.0 To 1347. %
Min Ratio
Max Ratio
TENDL Threshold 4.4346 MeV
CENDL3.2 Threshold 5.2559 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
32
28-Ni-58

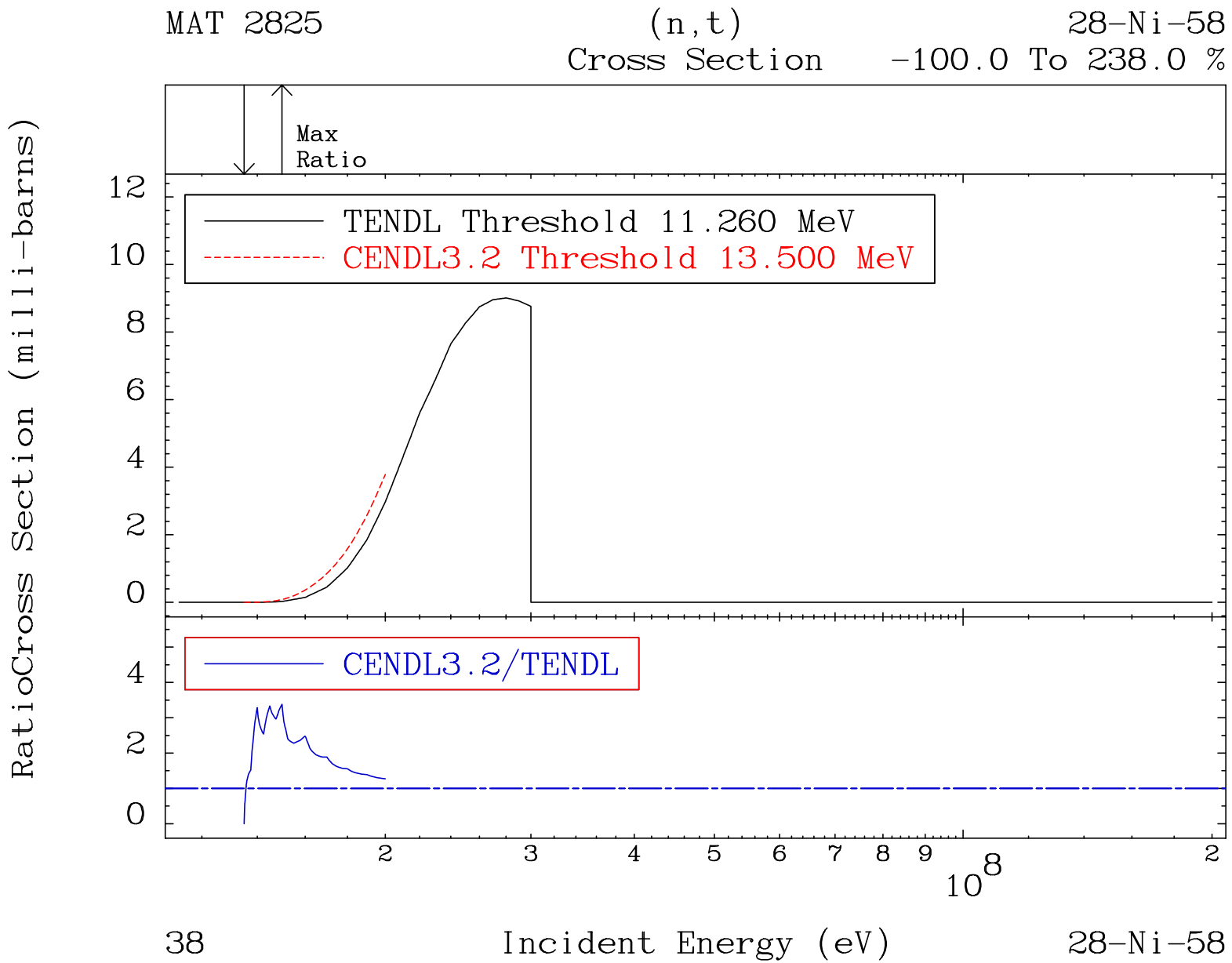

MAT 2825
MT= 77 (n,n') Level
28-Ni-58
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 4.4593 MeV
CENDL3.2 Threshold 5.4526 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
300
200
100
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
33
Incident Energy (eV)
28-Ni-58

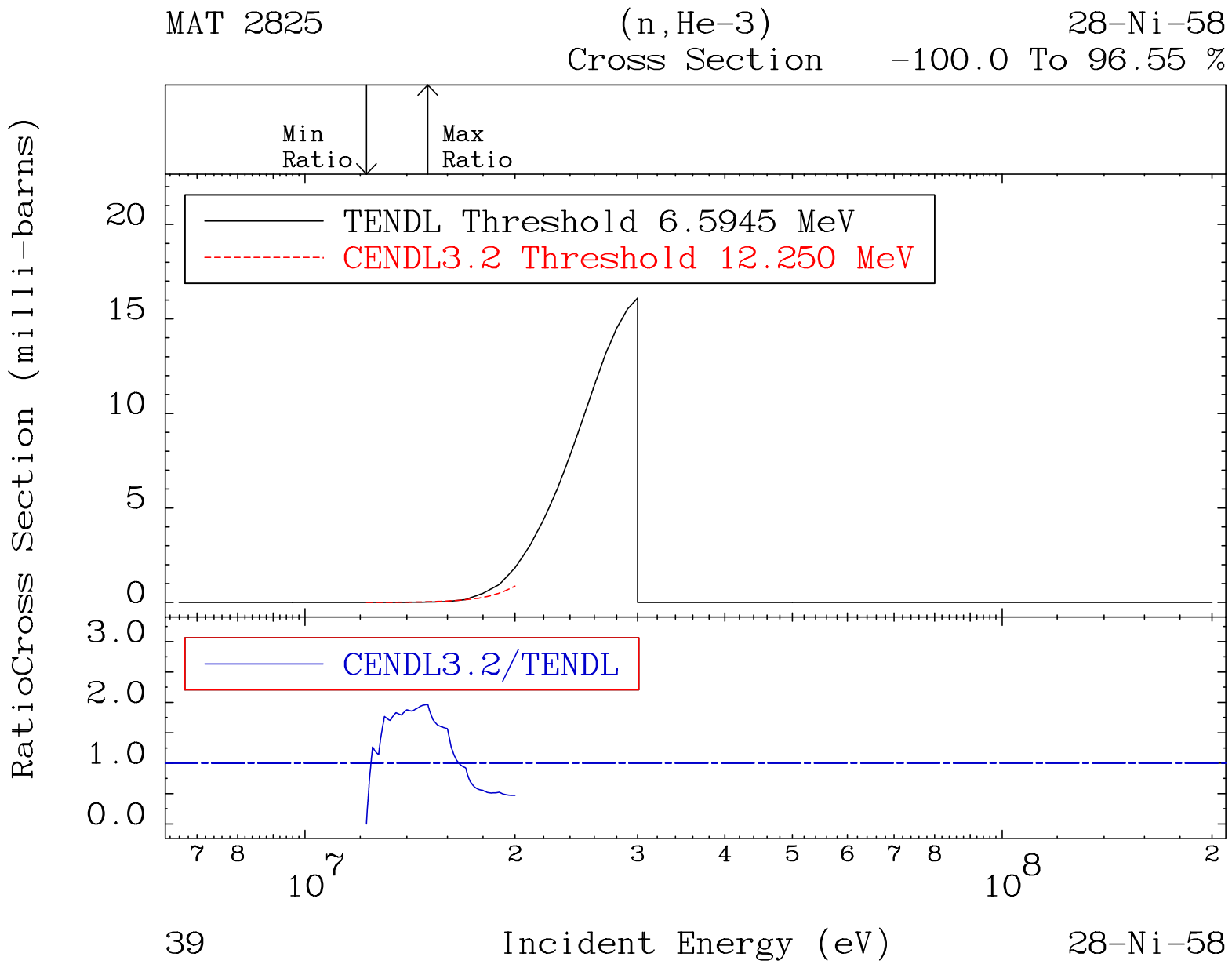

MAT 2825
(n,n') Continuum
Cross Section
28-Ni-58
-100.0 To 56.05 %
Max
Ratio
TENDL Threshold 4.5525 MeV
CENDL3.2 Threshold 5.5000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
2.0
1.0
0.0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
34
Incident Energy (eV)
28-Ni-58

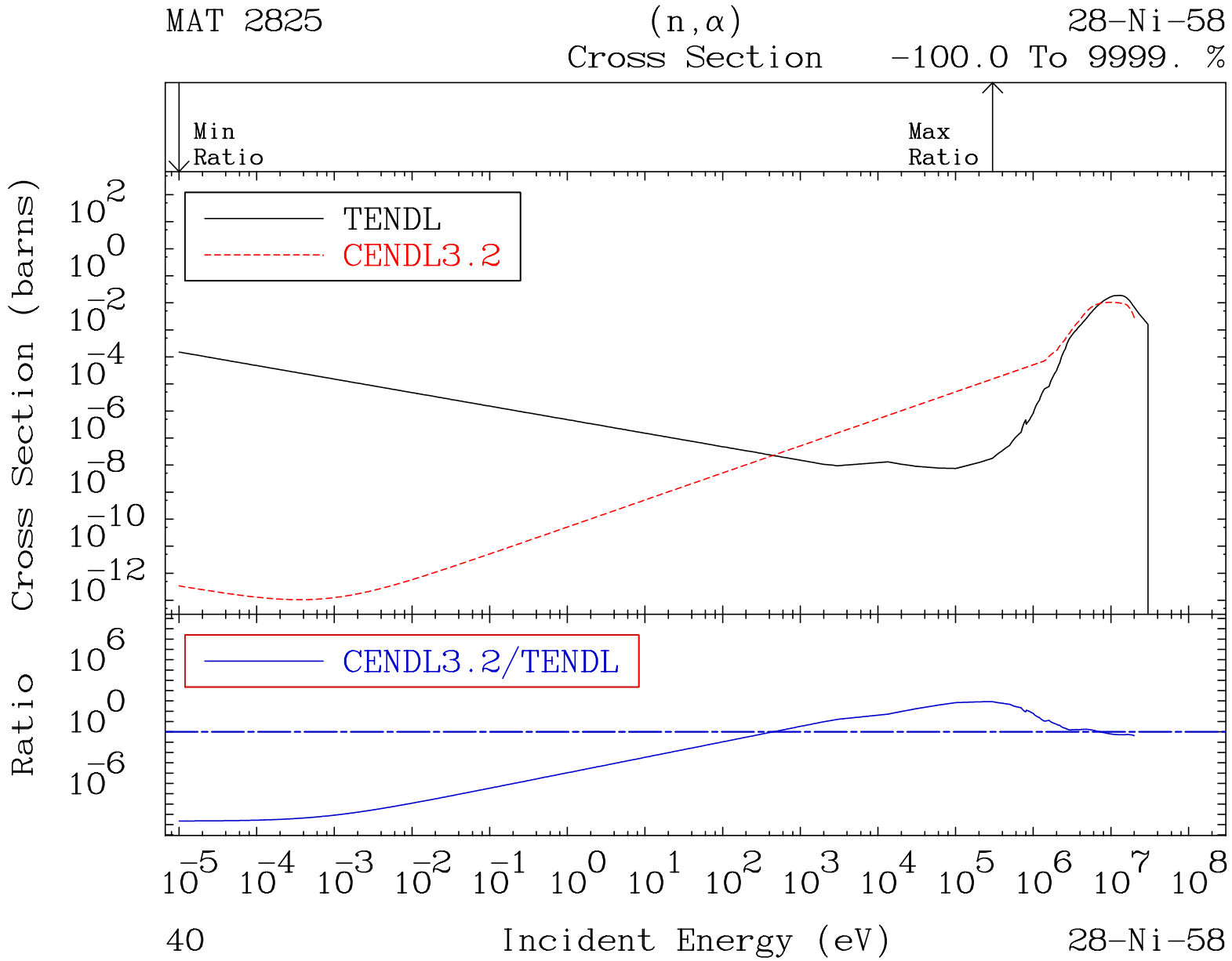

MAT 2825
(n,γ)
Cross Section
28-Ni-58
-99.73 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
35
28-Ni-58

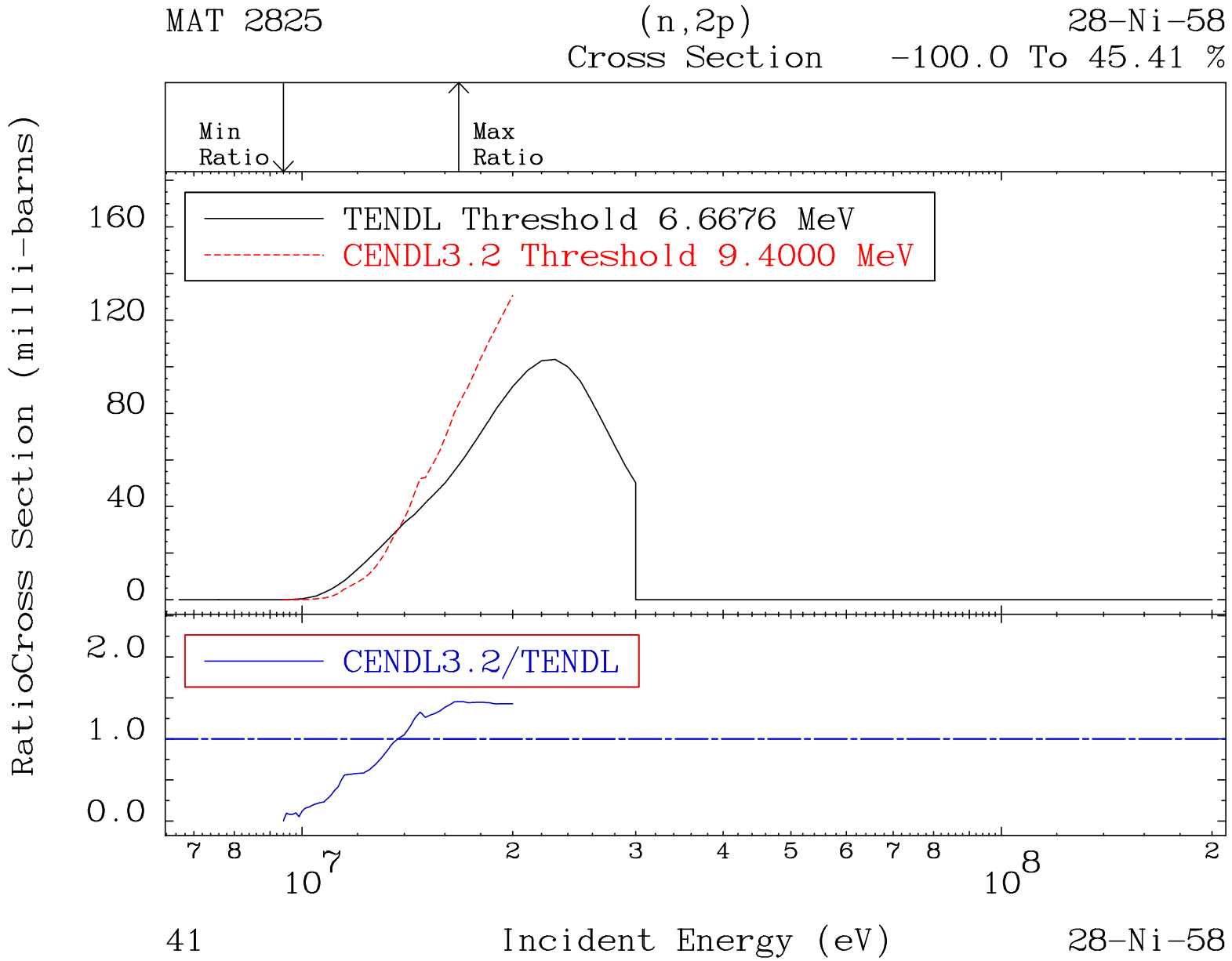

MAT 2825
(n,p)
28-Ni-58
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
36
28-Ni-58

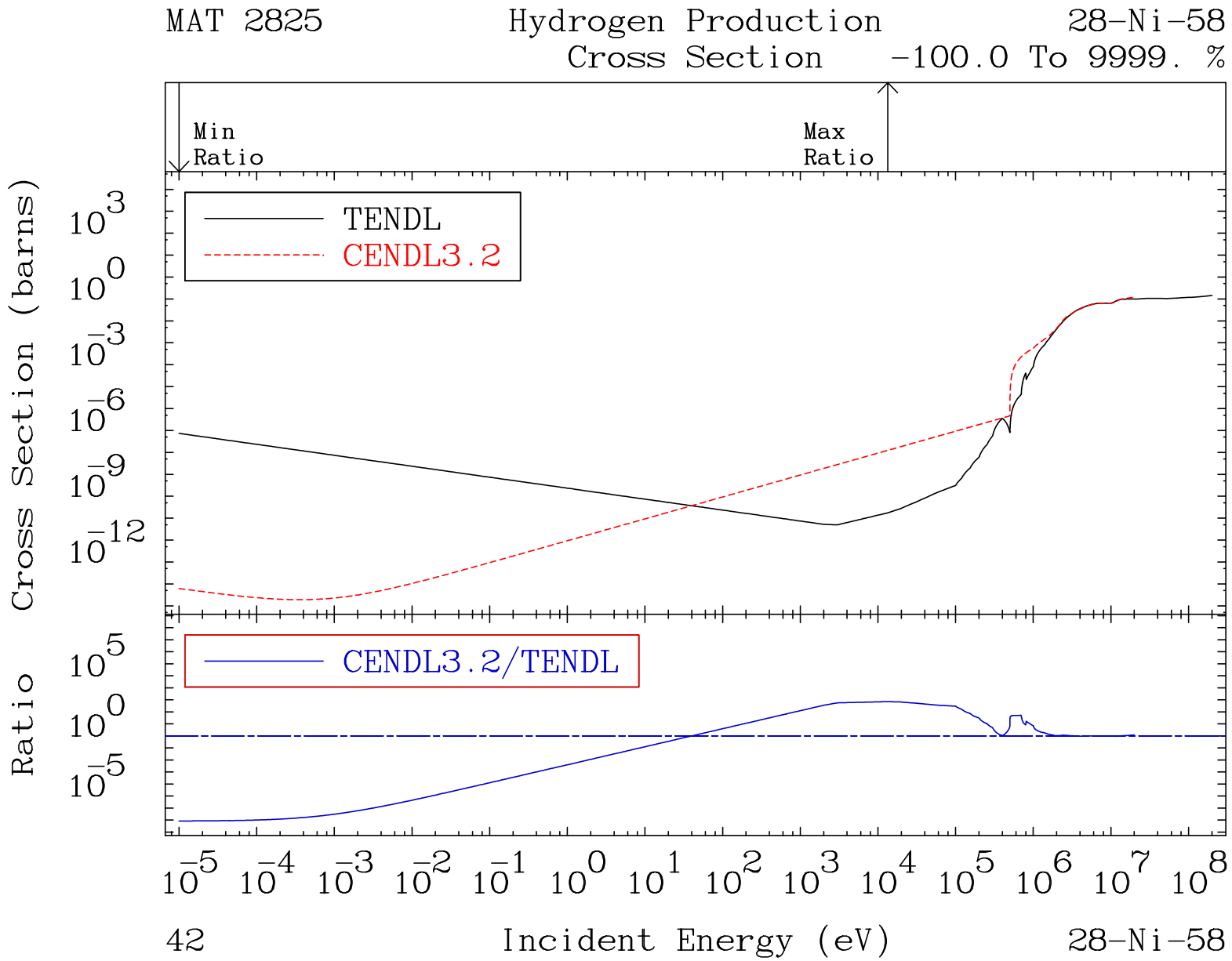

MAT 2825
(n,d)
28-Ni-58
Cross Section
-100.0 To 0.285 %
Min Ratio
Max Ratio
TENDL Threshold 6.0512 MeV
CENDL3.2 Threshold 7.8000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
1.2
0.6
0.0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
37
Incident Energy (eV)
28-Ni-58

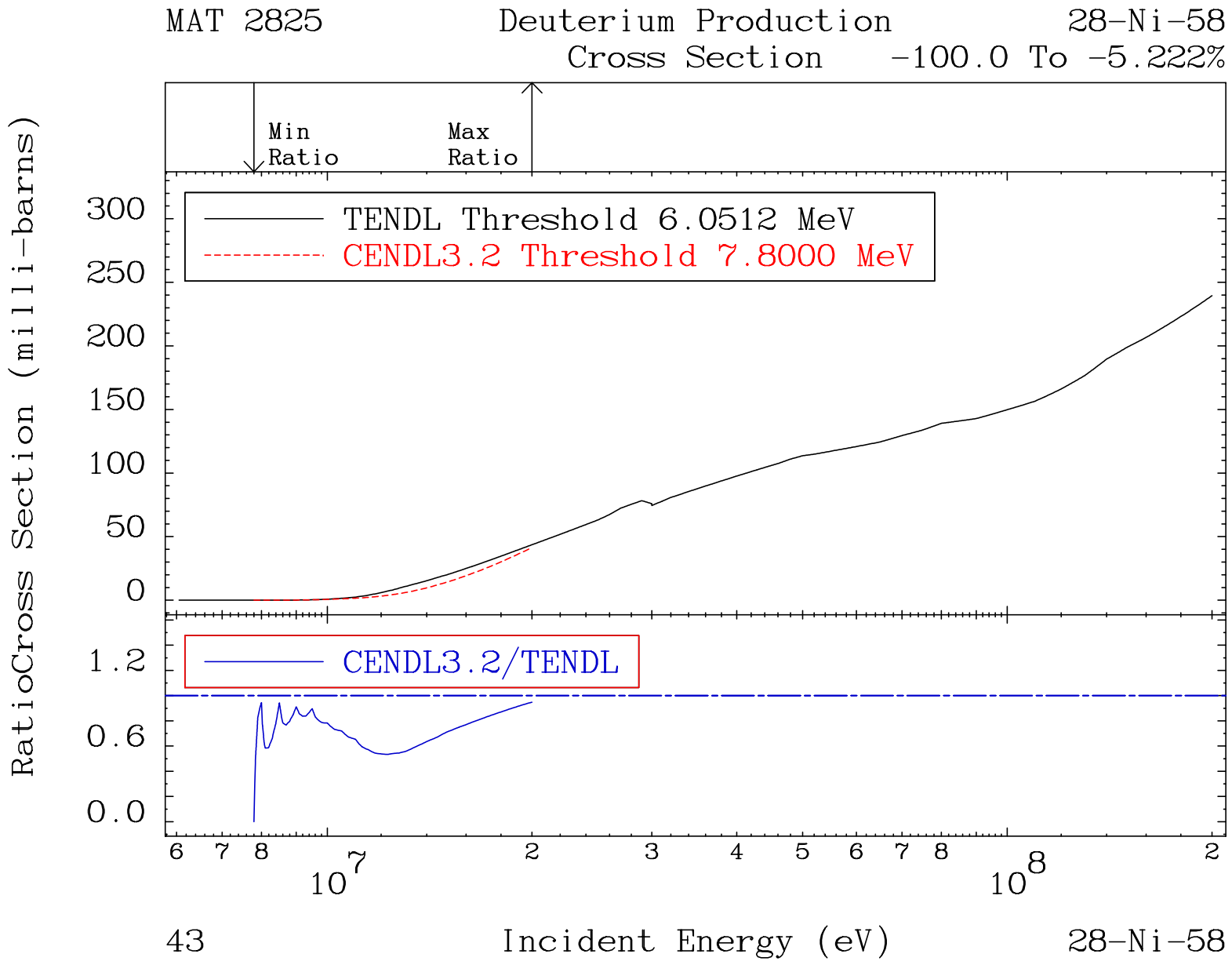

MAT 2825
(n,t)
28-Ni-58
Cross Section
-100.0 To 238.0 %
Max
Ratio
TENDL Threshold 11.260 MeV
CENDL3.2 Threshold 13.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
12
10
8
6
4
2
0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
38
Incident Energy (eV)
28-Ni-58

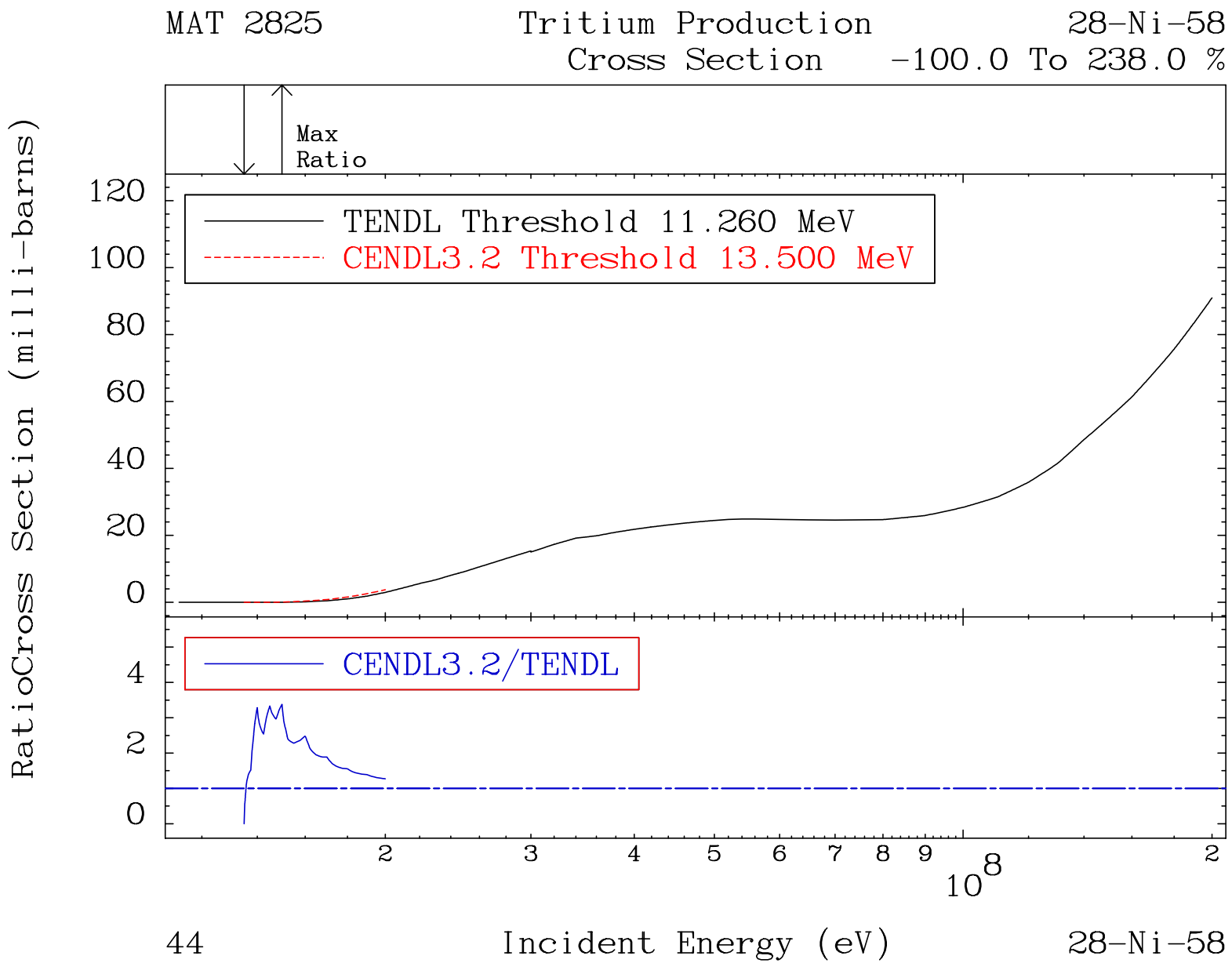

MAT 2825
(n,He-3)
Cross Section
28-Ni-58
-100.0 To 96.55 %
Min Ratio
Max Ratio
TENDL Threshold 6.5945 MeV
CENDL3.2 Threshold 12.250 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
3.0
2.0
1.0
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
39
Incident Energy (eV)
28-Ni-58

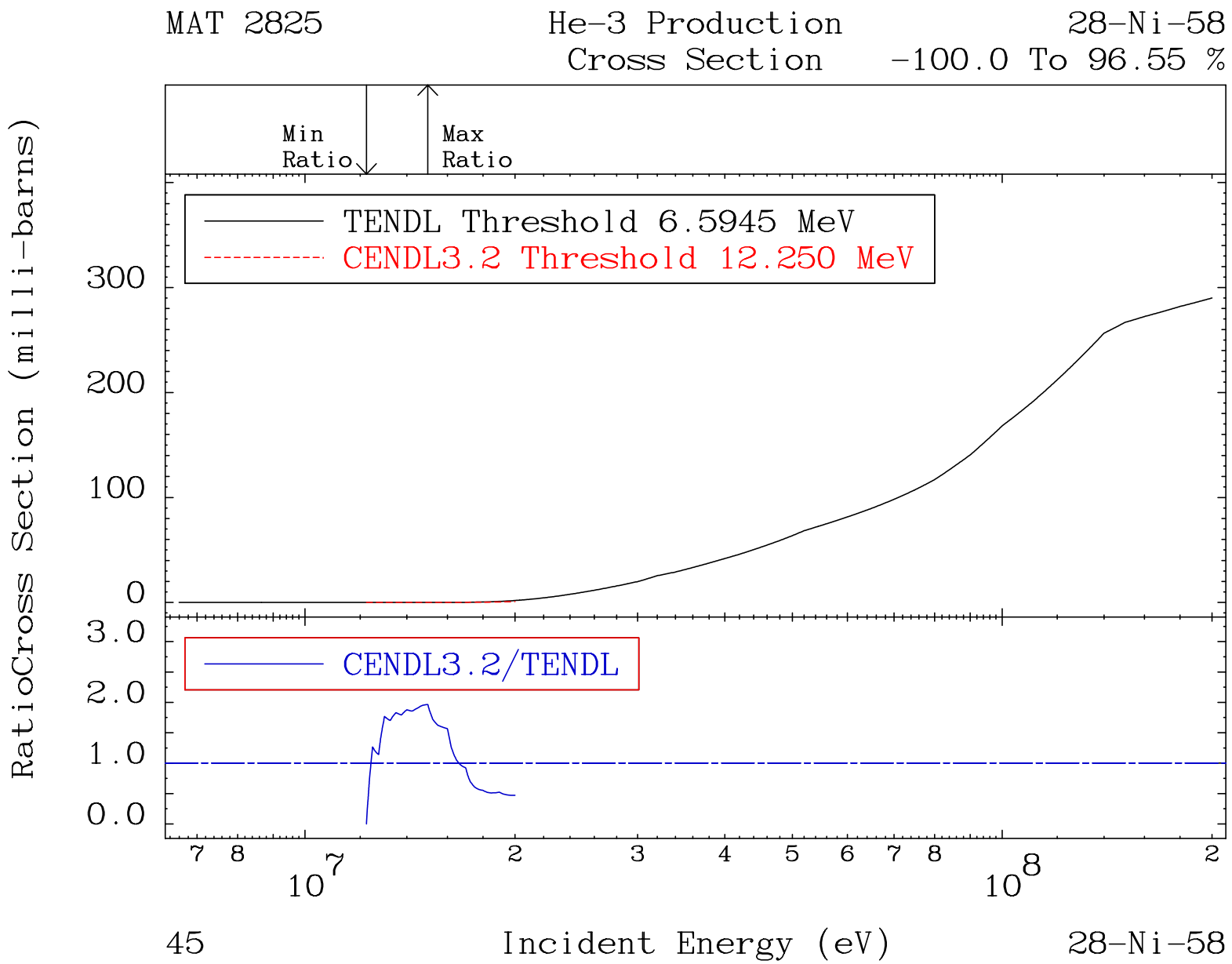

MAT 2825
(n,α)
Cross Section
28-Ni-58
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
40
28-Ni-58

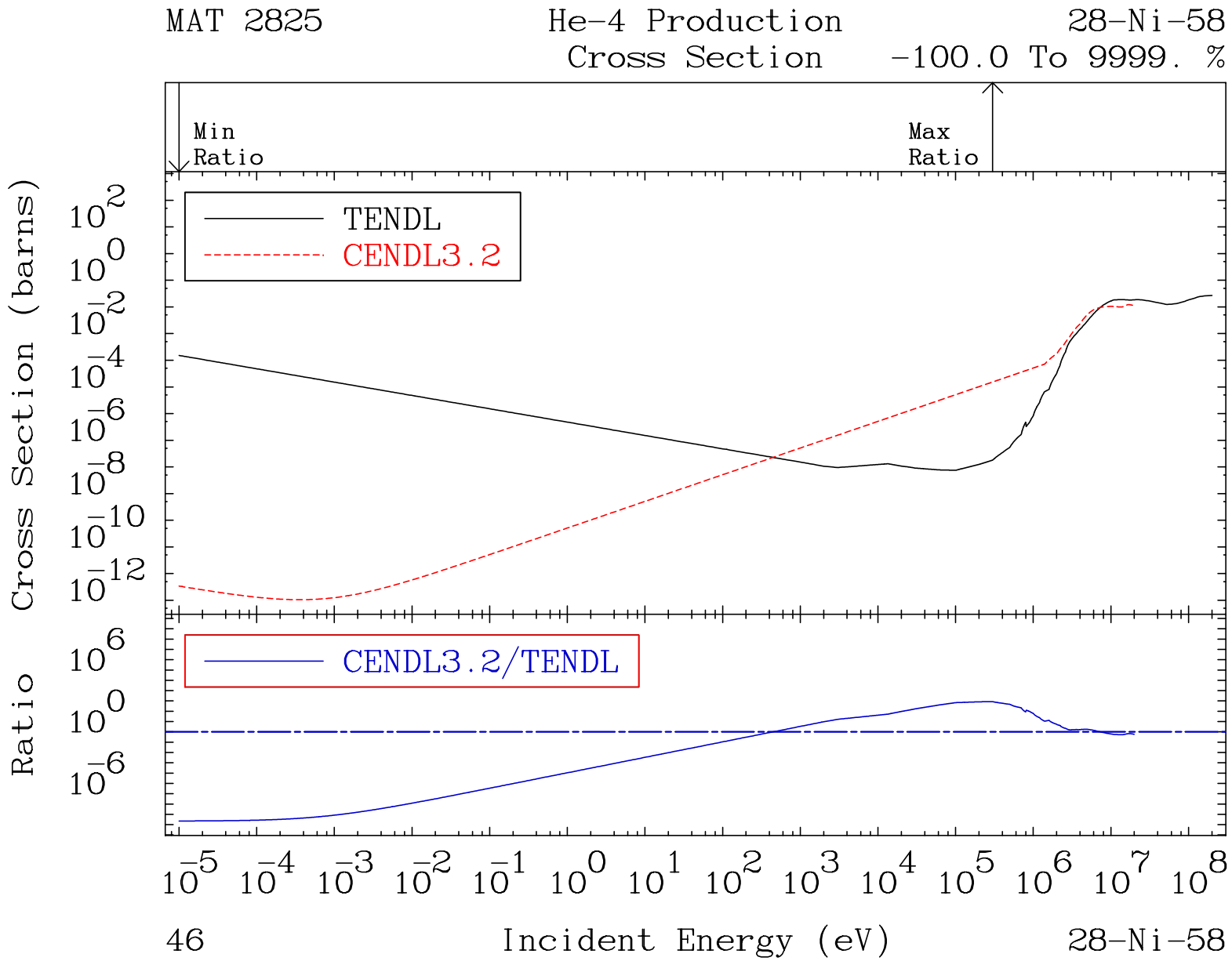

MAT 2825
(n,2p)
Cross Section
28-Ni-58
-100.0 To 45.41 %
Min Ratio
Max Ratio
TENDL Threshold 6.6676 MeV
CENDL3.2 Threshold 9.4000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
2.0
1.0
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
41
Incident Energy (eV)
28-Ni-58

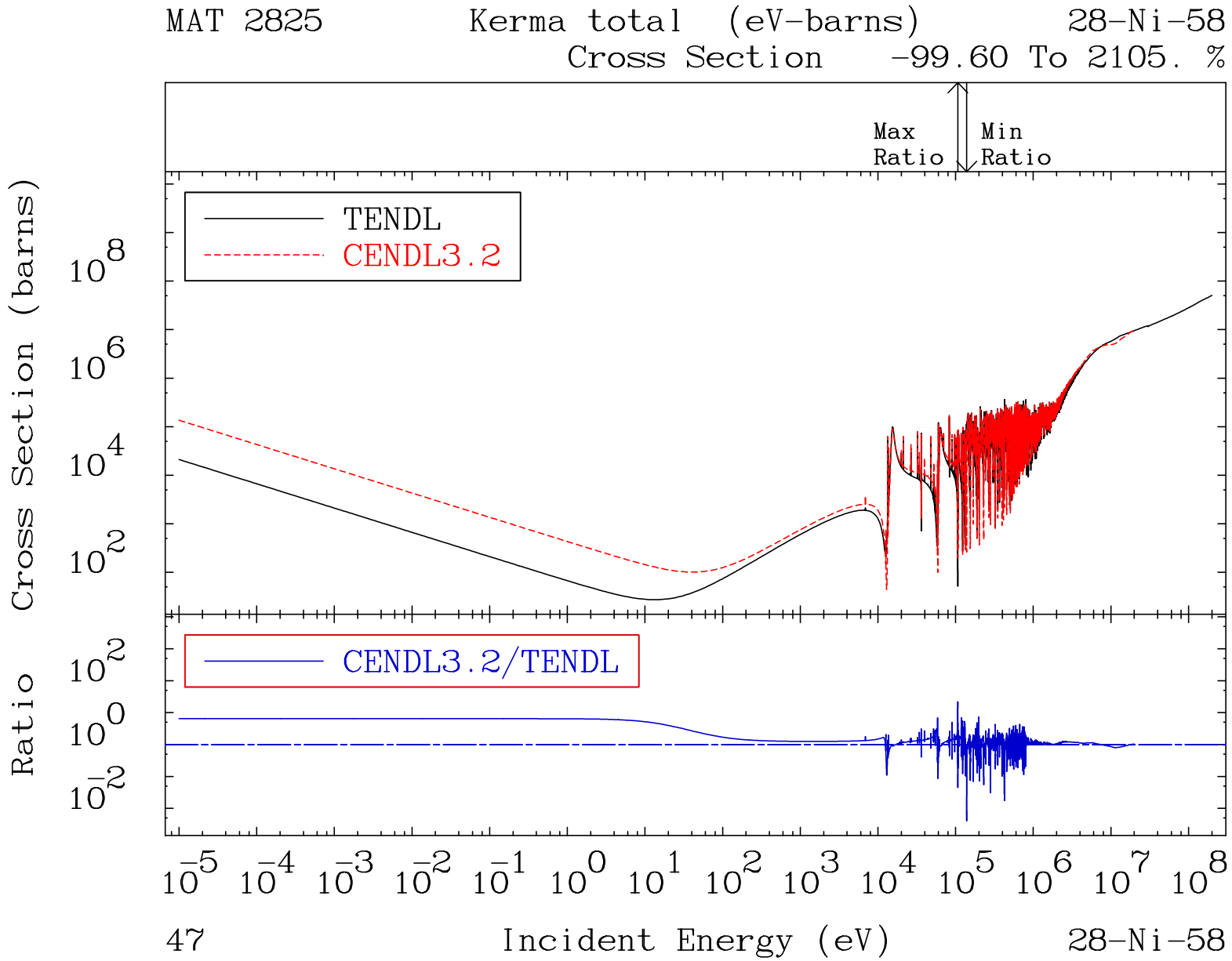

MAT 2825
Hydrogen Production
28-Ni-58
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
42
28-Ni-58

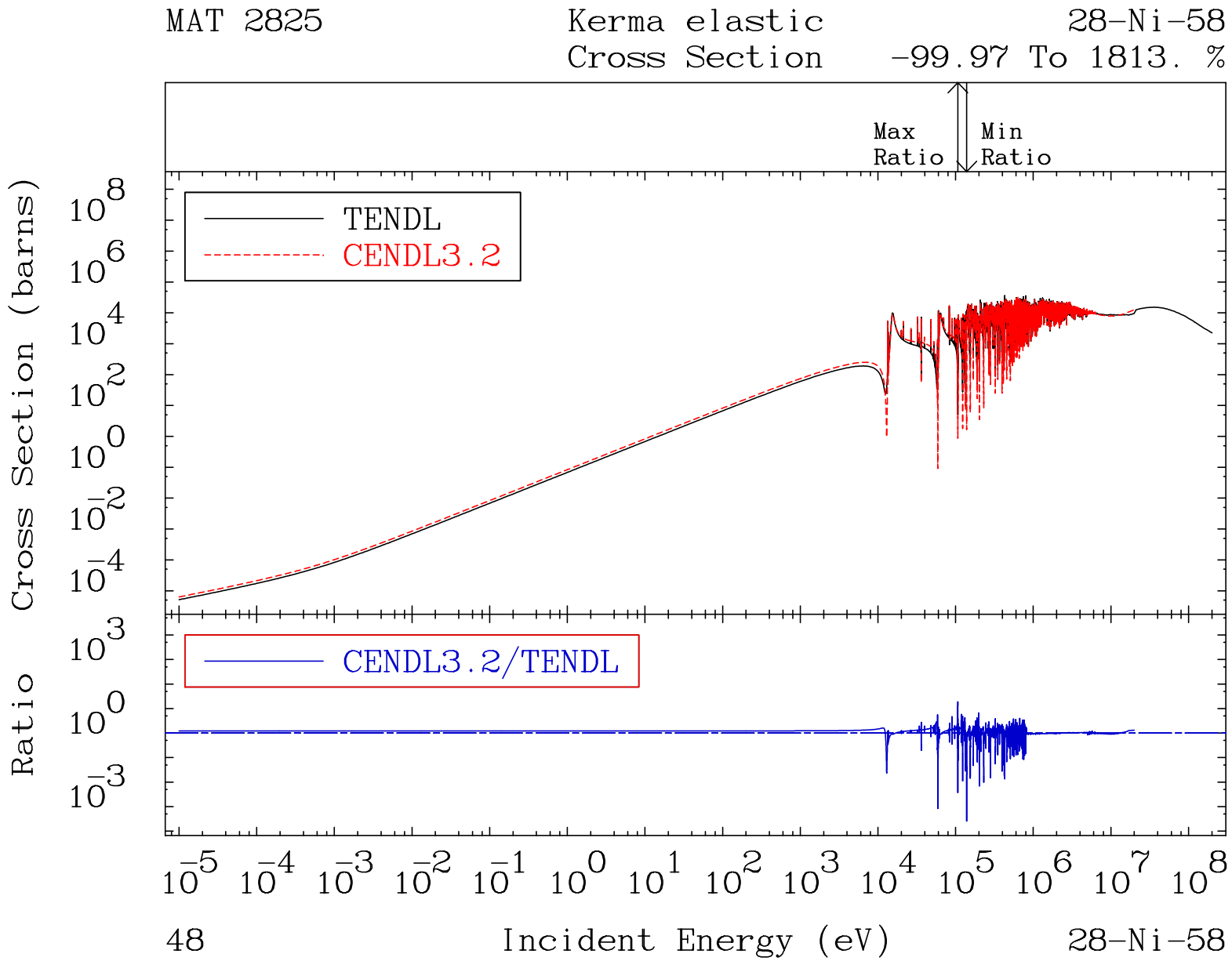

MAT 2825
Deuterium Production
28-Ni-58
Cross Section -100.0 To -5.222%
Min Ratio
Max Ratio
TENDL Threshold 6.0512 MeV
CENDL3.2 Threshold 7.8000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
1.2
0.6
0.0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
43
Incident Energy (eV)
28-Ni-58

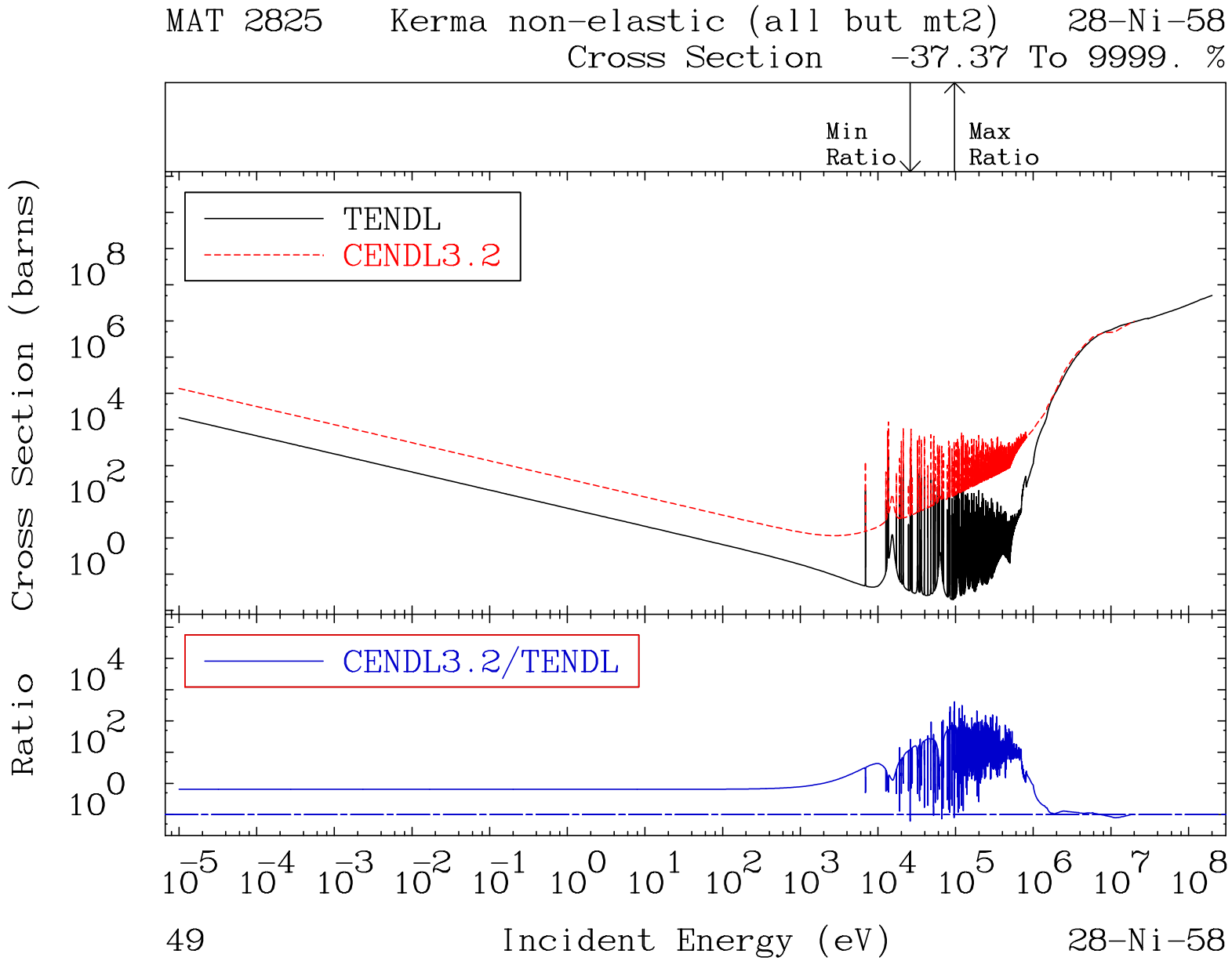

MAT 2825
Tritium Production
28-Ni-58
Cross Section
-100.0 To 238.0 %
Max
Ratio
TENDL Threshold 11.260 MeV
CENDL3.2 Threshold 13.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
44
Incident Energy (eV)
28-Ni-58

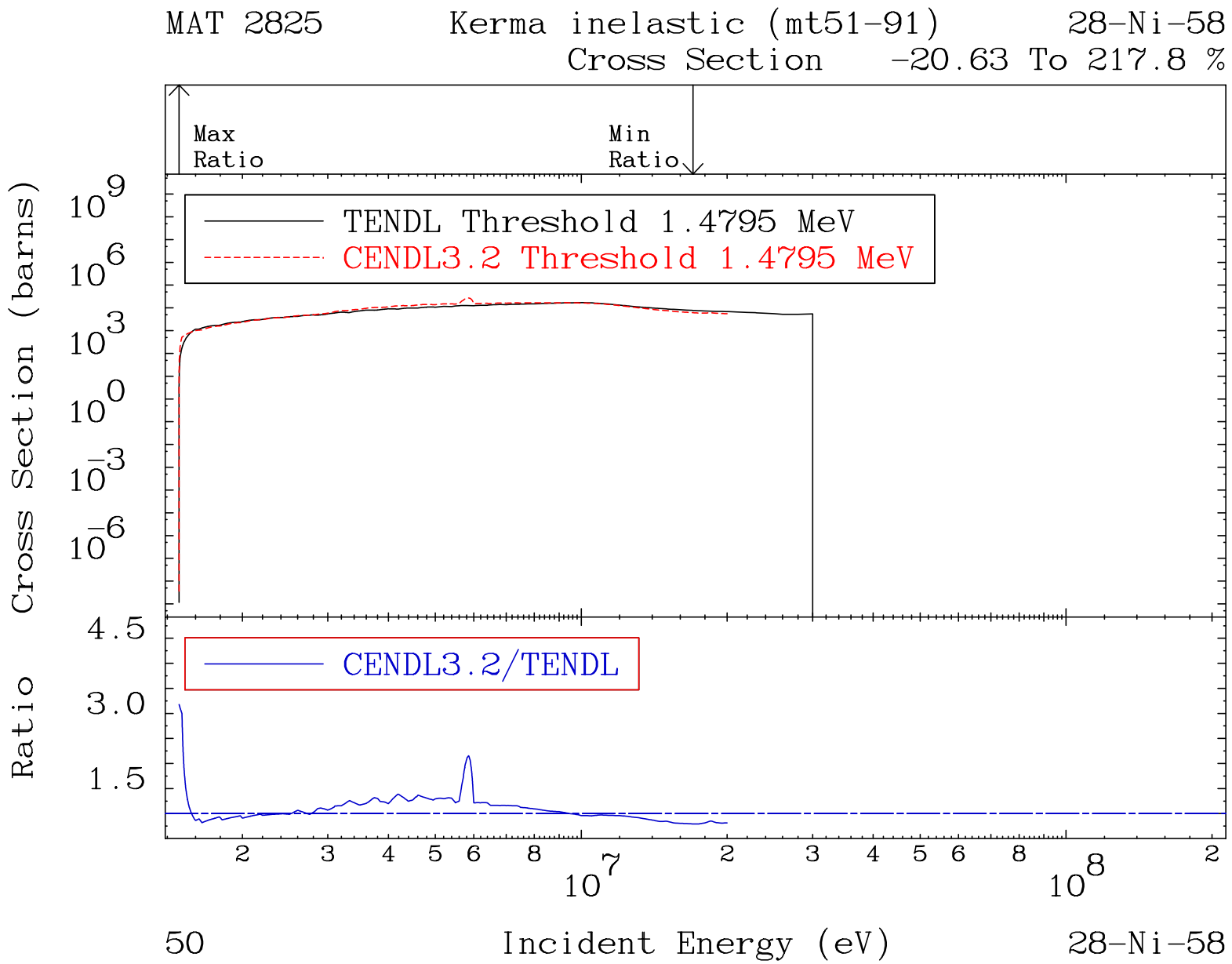

MAT 2825
He-3 Production
Cross Section
28-Ni-58
-100.0 To 96.55 %
Min Ratio
Max Ratio
TENDL Threshold 6.5945 MeV
CENDL3.2 Threshold 12.250 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
200
100
0
3.0
2.0
1.0
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
45
Incident Energy (eV)
28-Ni-58

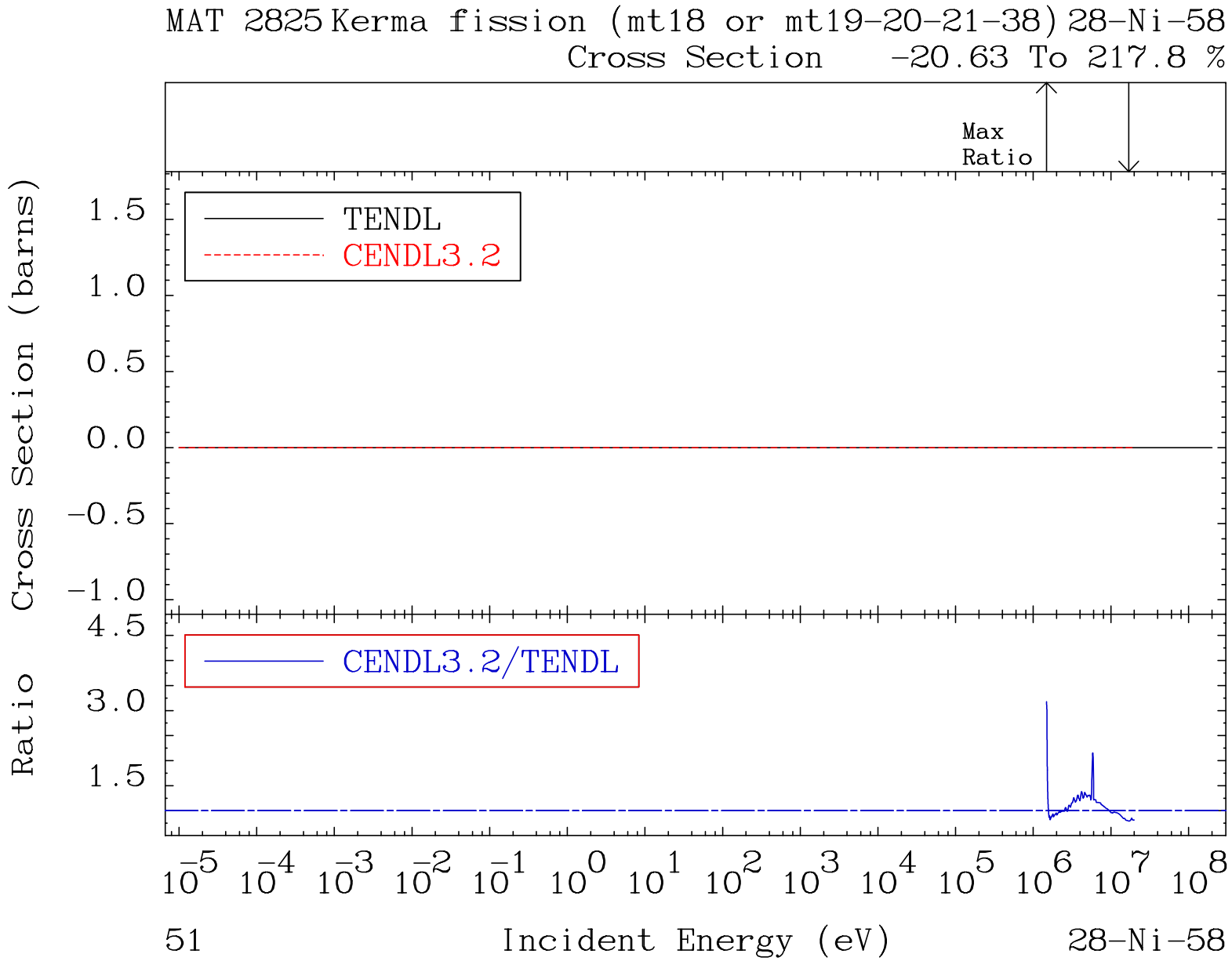

MAT 2825
He-4 Production
Cross Section
28-Ni-58
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
46
28-Ni-58

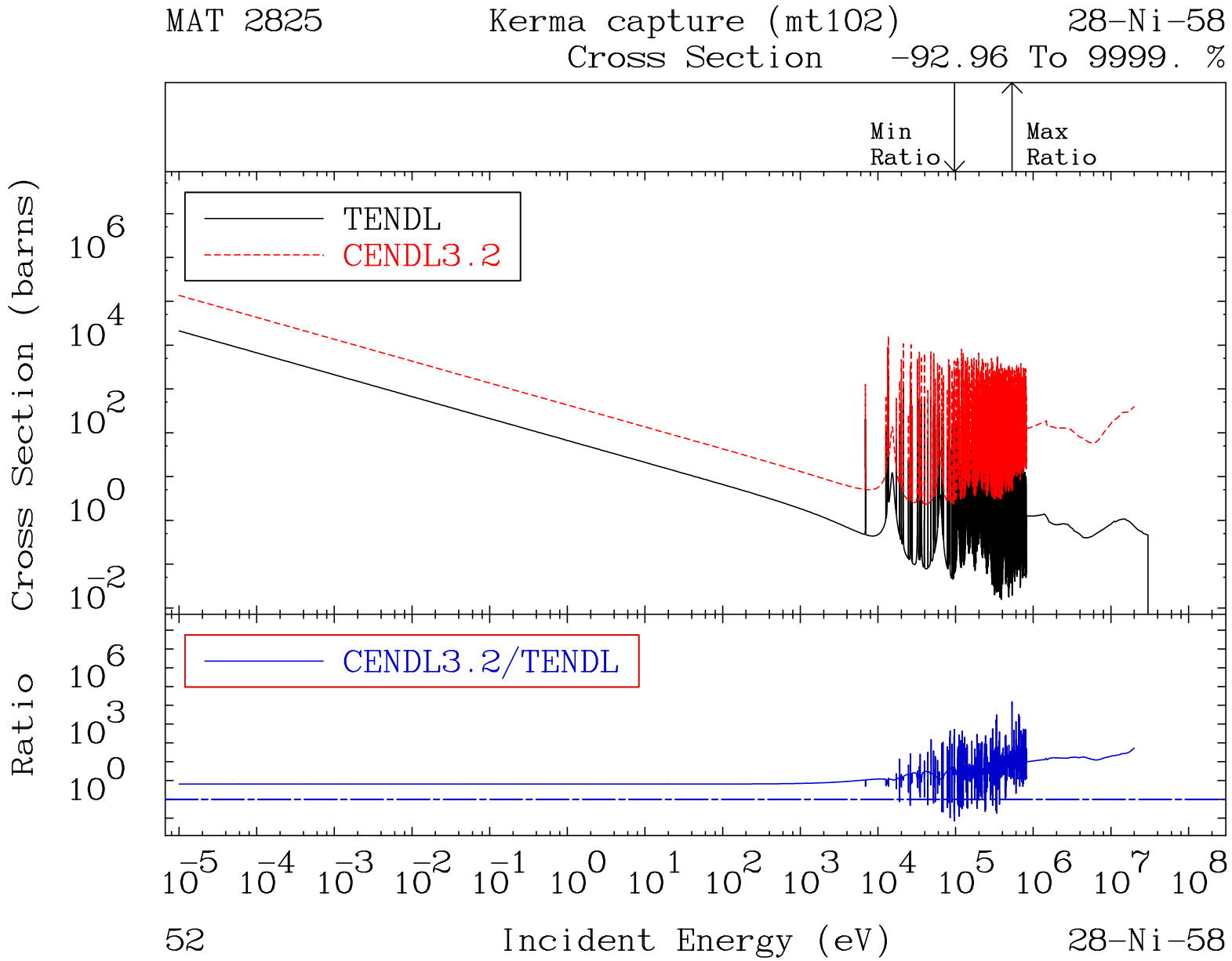

MAT 2825
Kerma total (eV-barns)
28-Ni-58
Cross Section -99.60 To 2105. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
Ratio
CENDL3.2/TENDL
47
Incident Energy (eV)
28-Ni-58

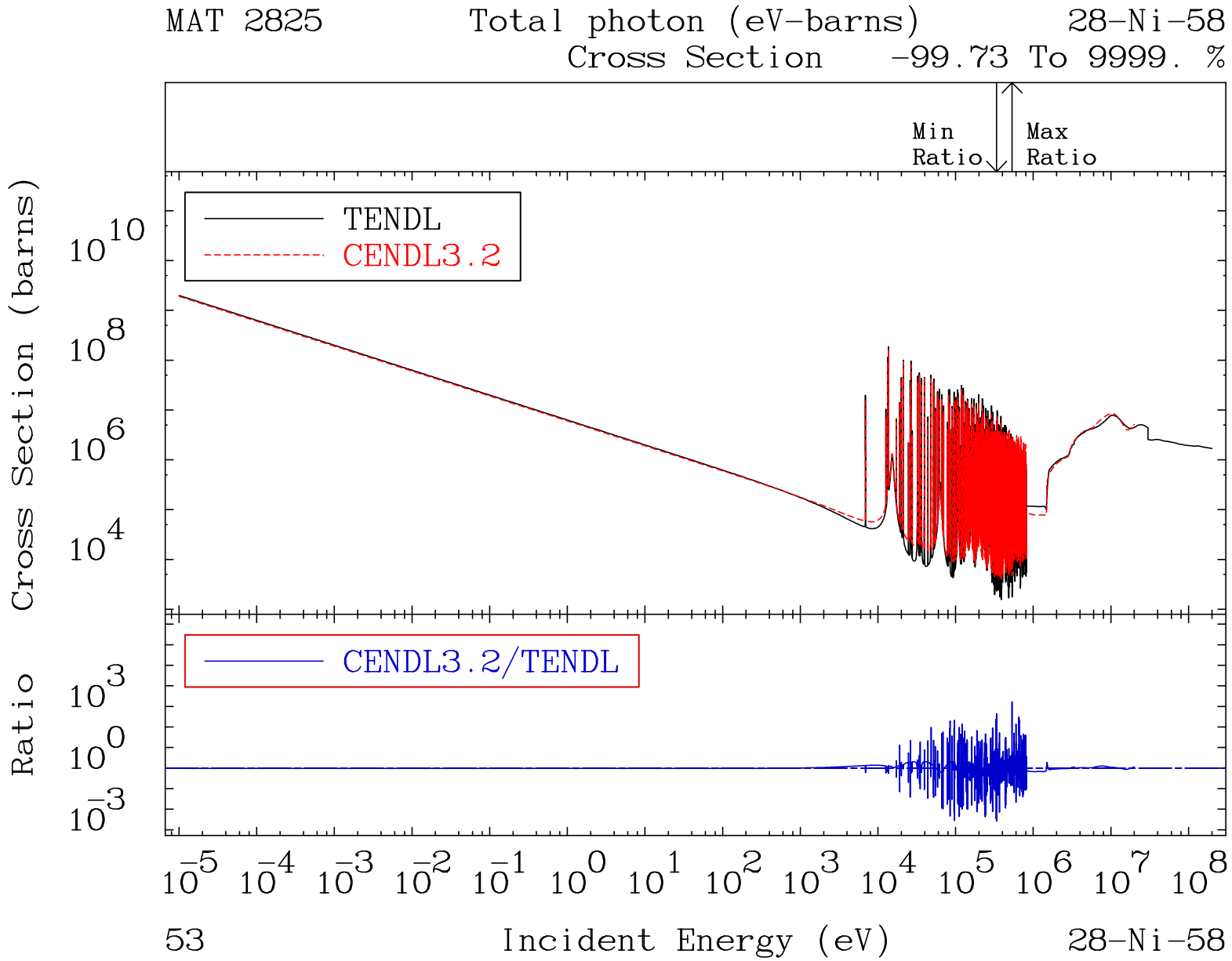

MAT 2825
Kerma elastic
Cross Section
28-Ni-58
-99.97 To 1813. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
48
28-Ni-58

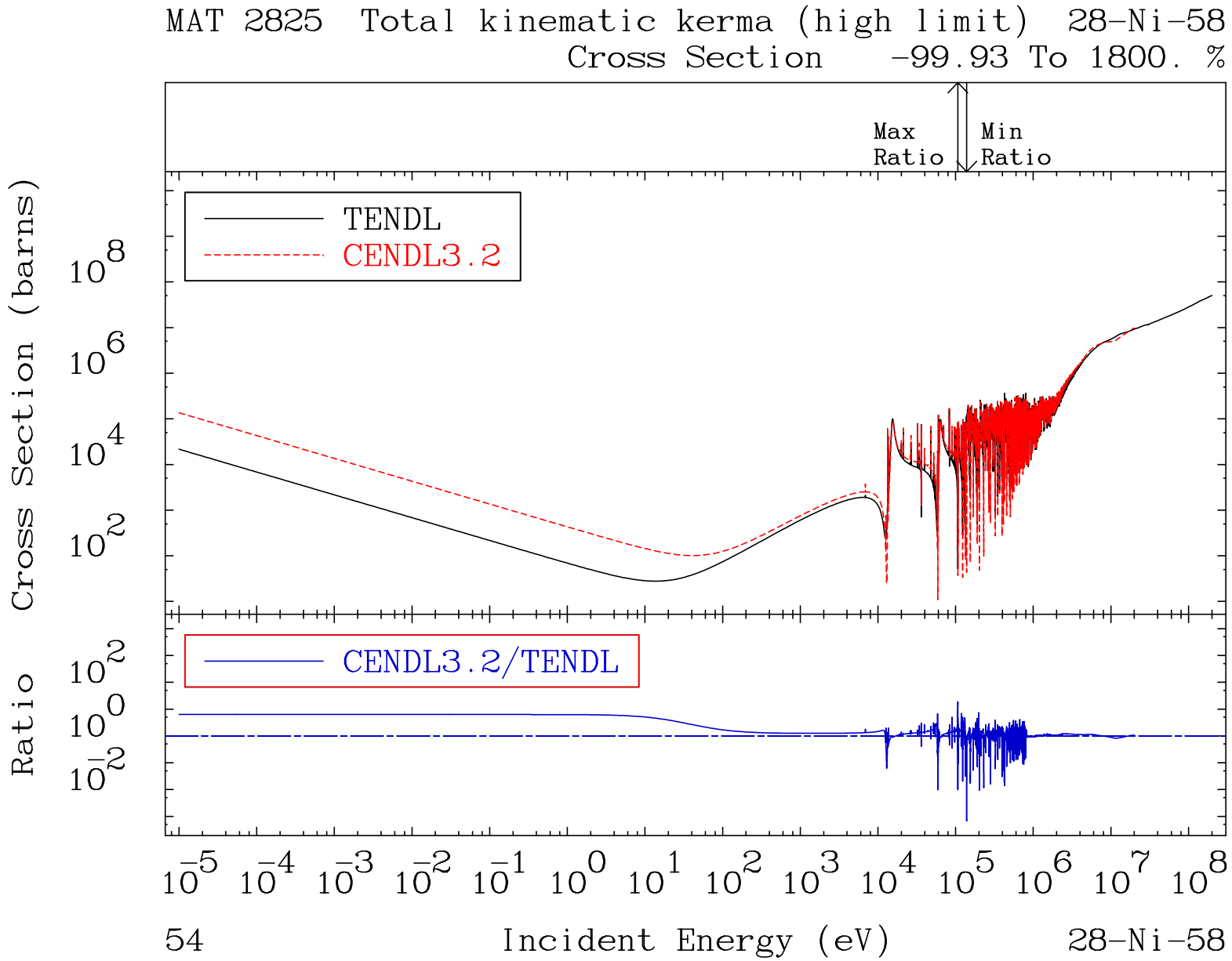

MAT 2825 Kerma non-elastic (all but mt2) 28-Ni-58
Cross Section -37.37 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
49
28-Ni-58

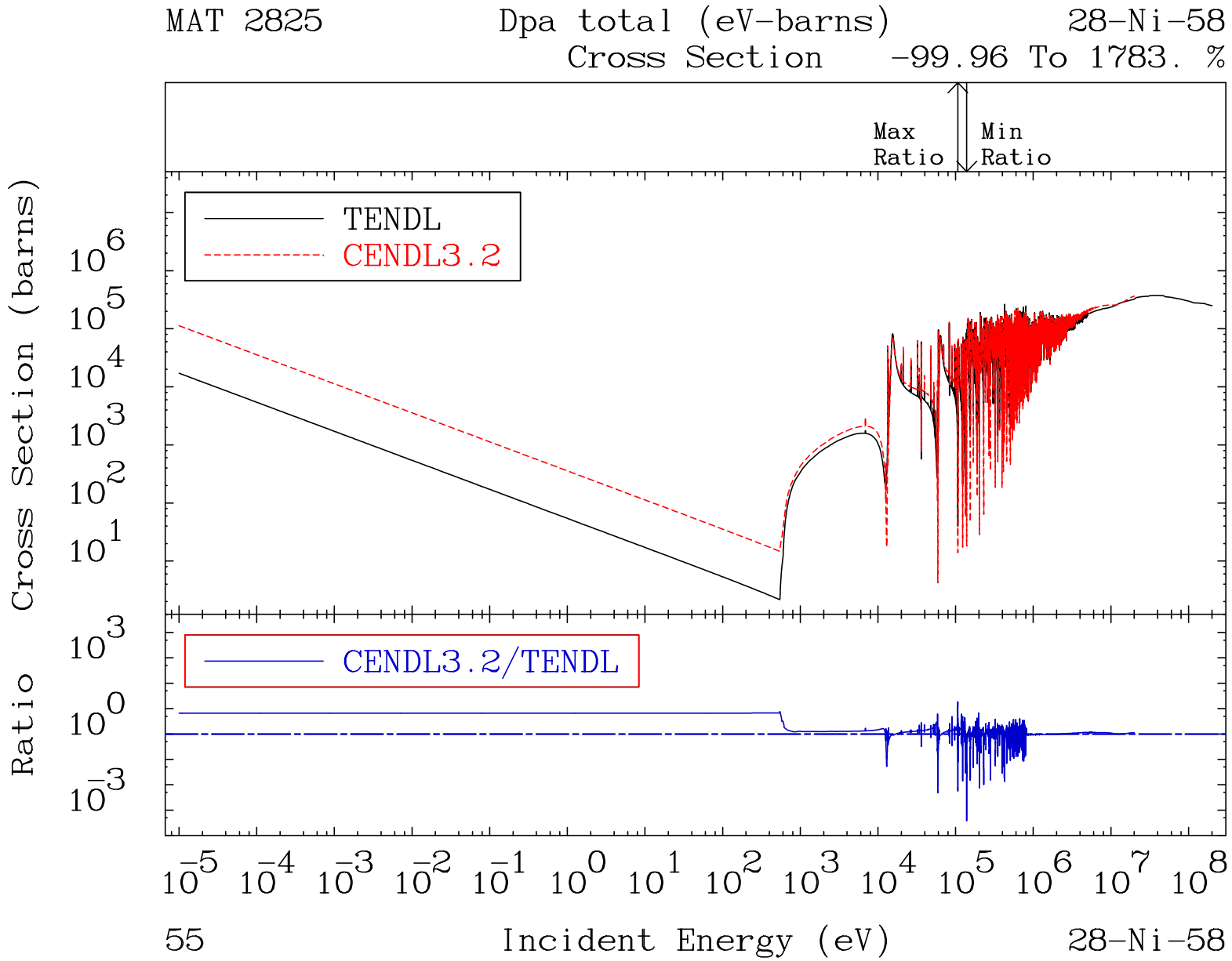

MAT 2825
Kerma inelastic (mt51-91)
28-Ni-58
Cross Section -20.63 To 217.8 %
Max Ratio
Min Ratio
TENDL Threshold 1.4795 MeV
CENDL3.2 Threshold 1.4795 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
50
28-Ni-58

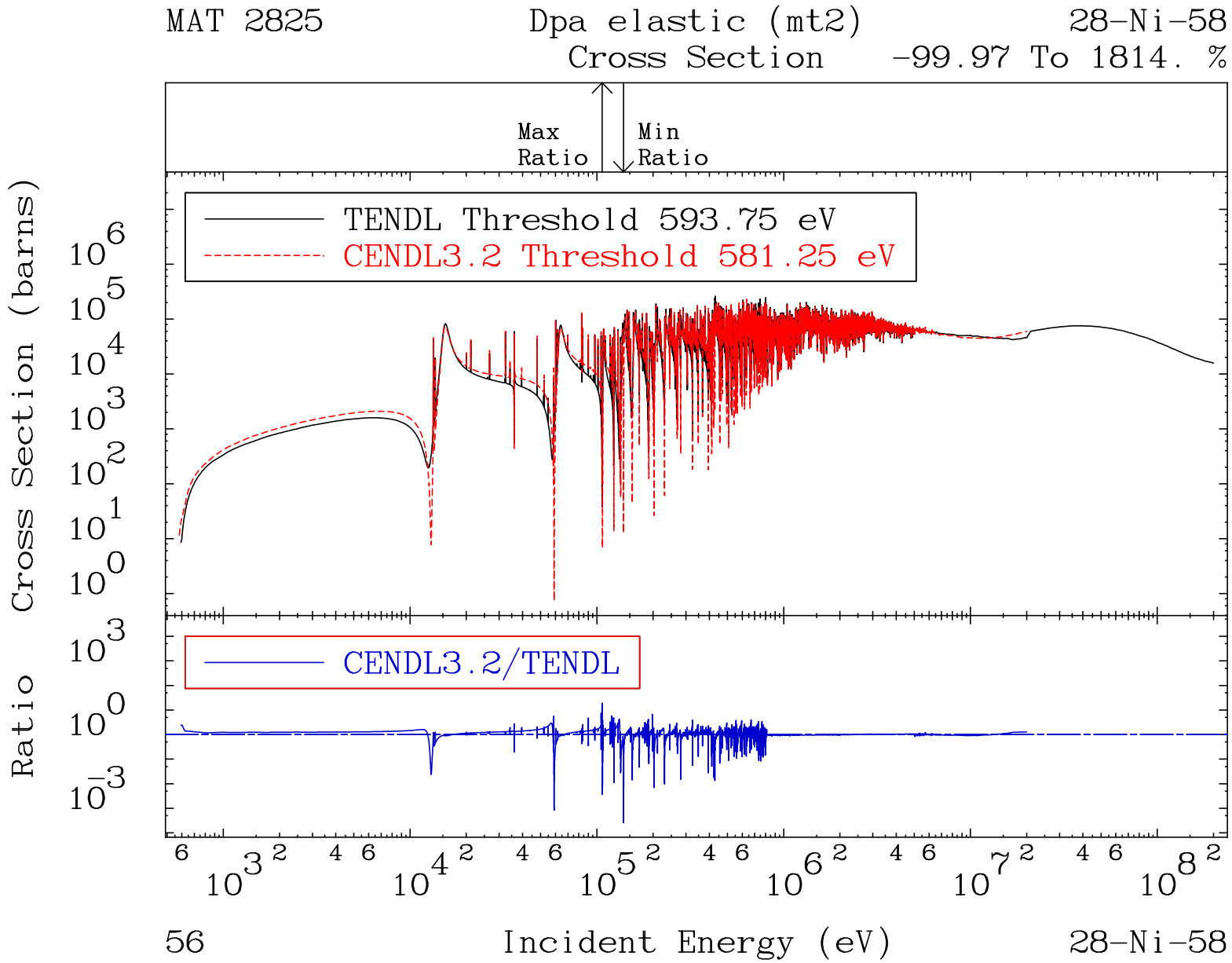

MAT 2825 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-58
Cross Section -20.63 To 217.8 %
Max
Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
4.5
3.0
1.5
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
Incident Energy (eV)
51
28-Ni-58

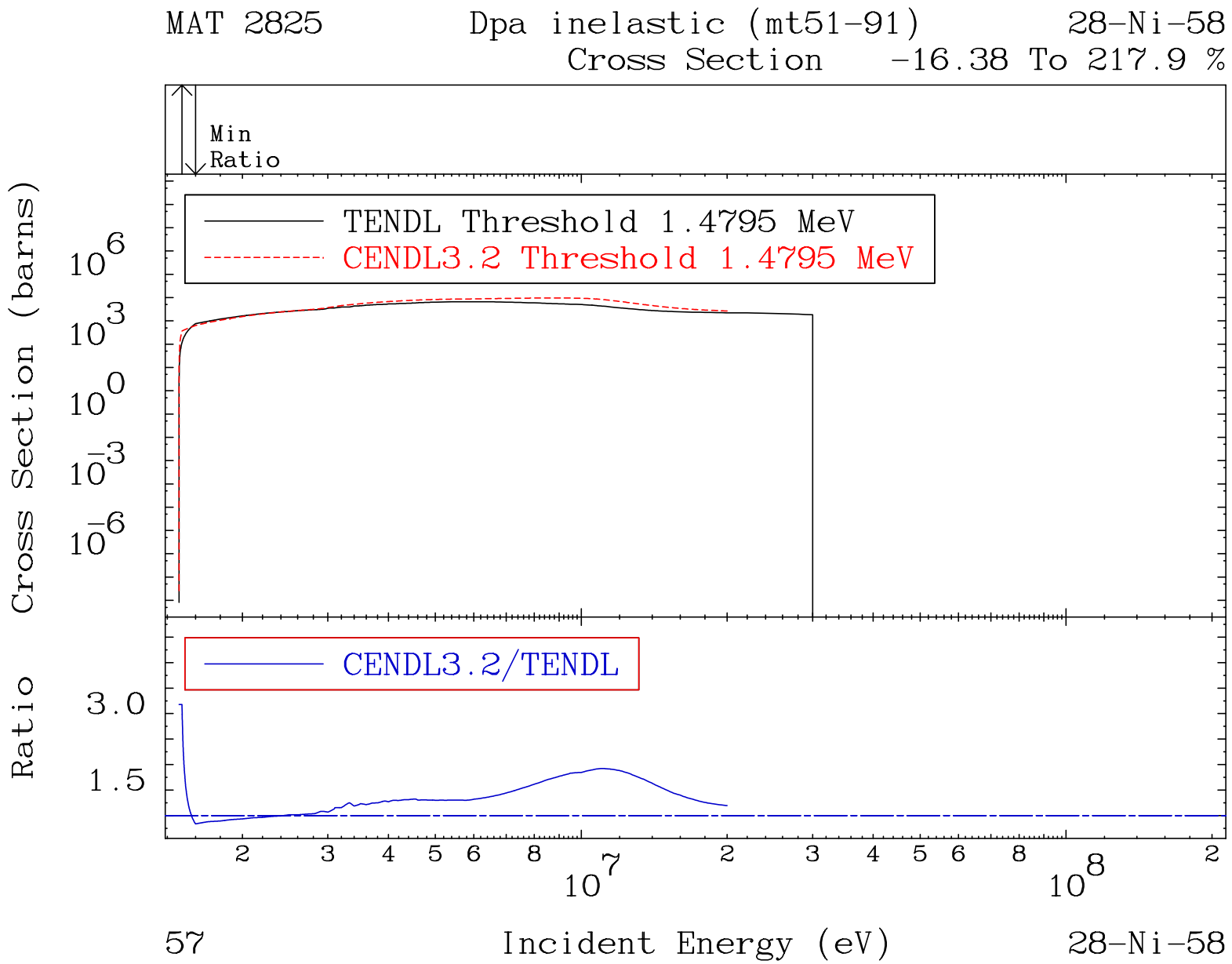

MAT 2825
Kerma capture (mt102)
28-Ni-58
Cross Section -92.96 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
52
28-Ni-58

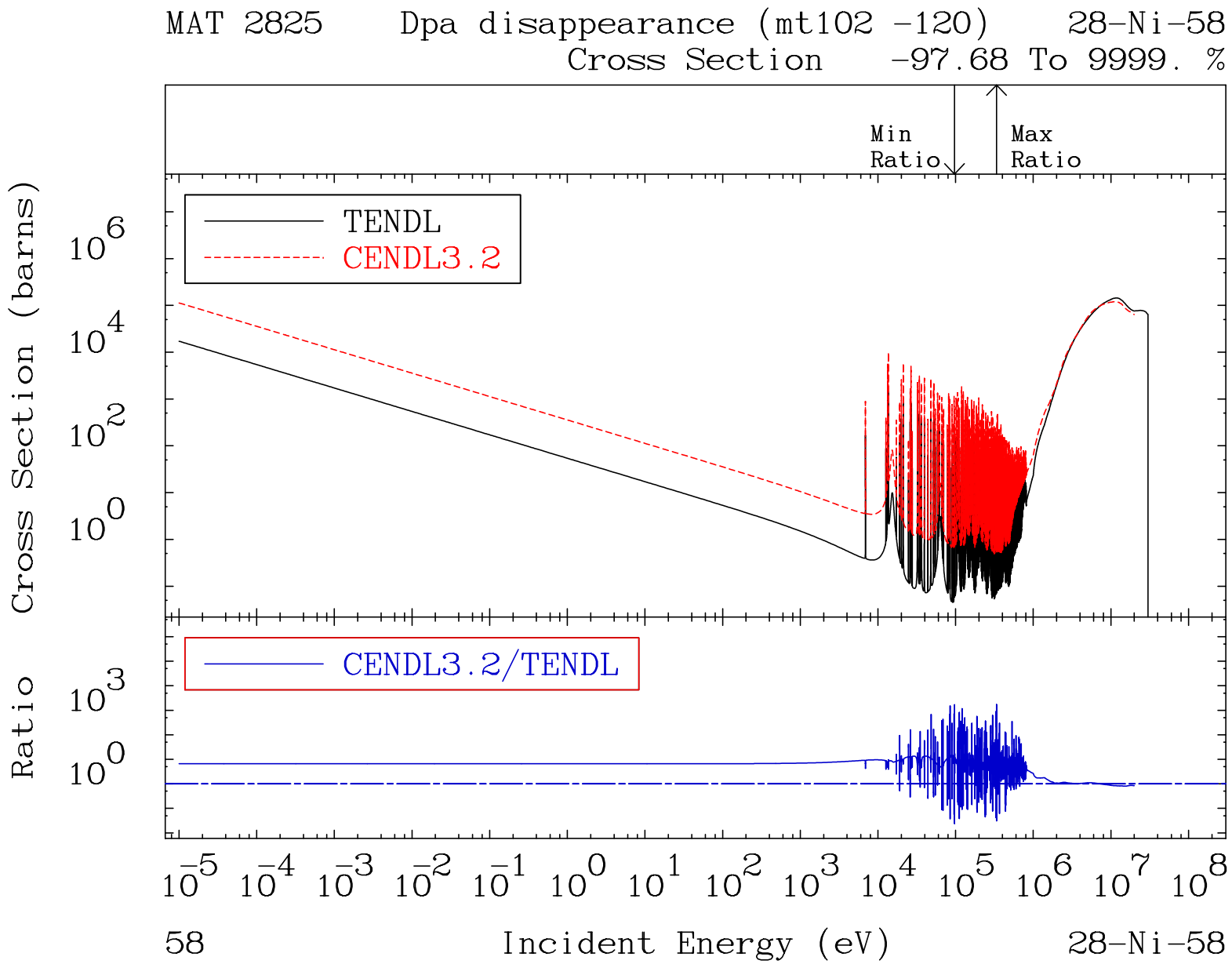

MAT 2825
Total photon (eV-barns)
28-Ni-58
Cross Section -99.73 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
10^{10}
10^{8}
10^{6}
10^{4}
CENDL3.2/TENDL
Ratio
10^{3}
10^{0}
10^{-3}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
53
Incident Energy (eV)
28-Ni-58

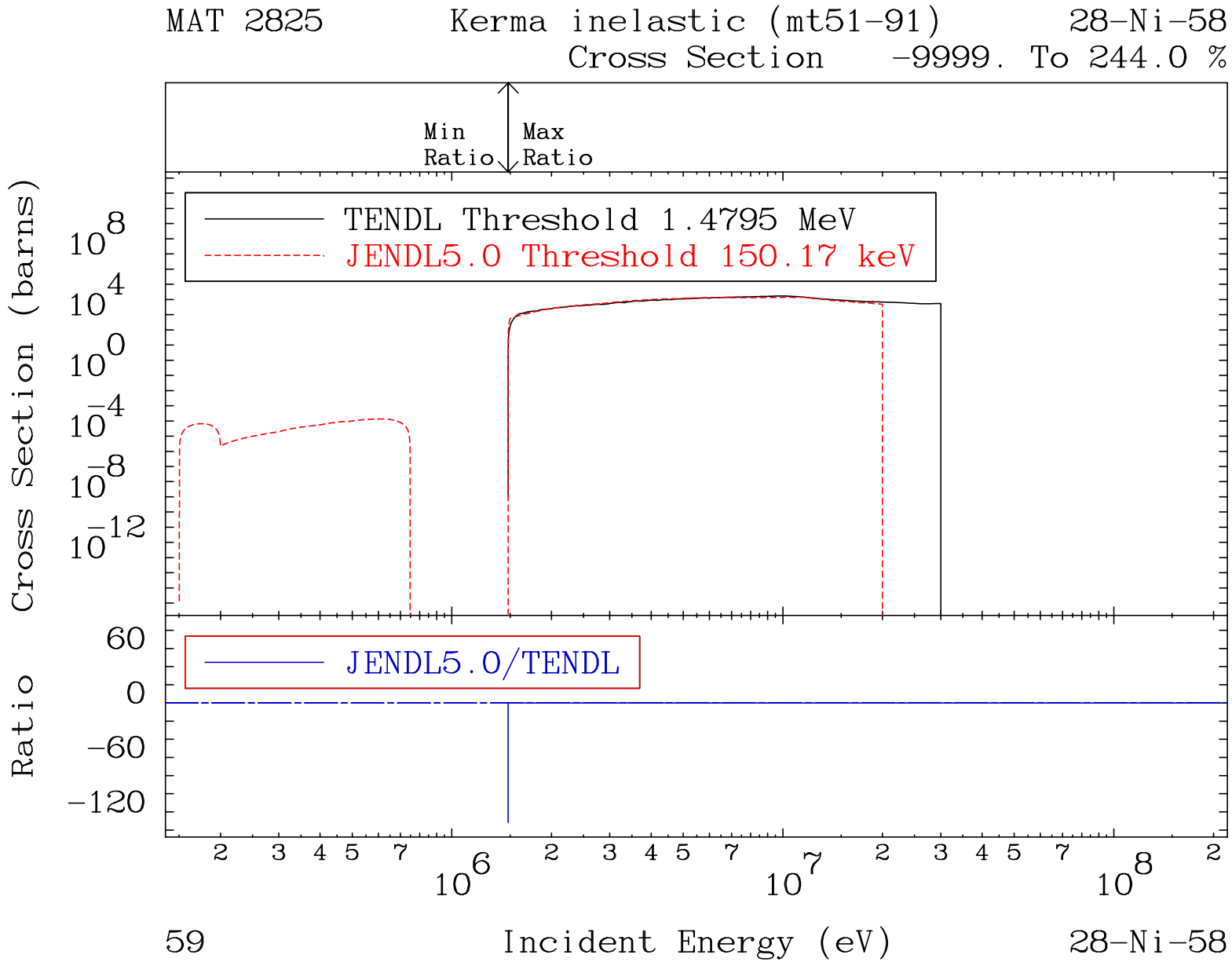

MAT 2825 Total kinematic kerma (high limit) 28-Ni-58
Cross Section -99.93 To 1800. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
54
28-Ni-58

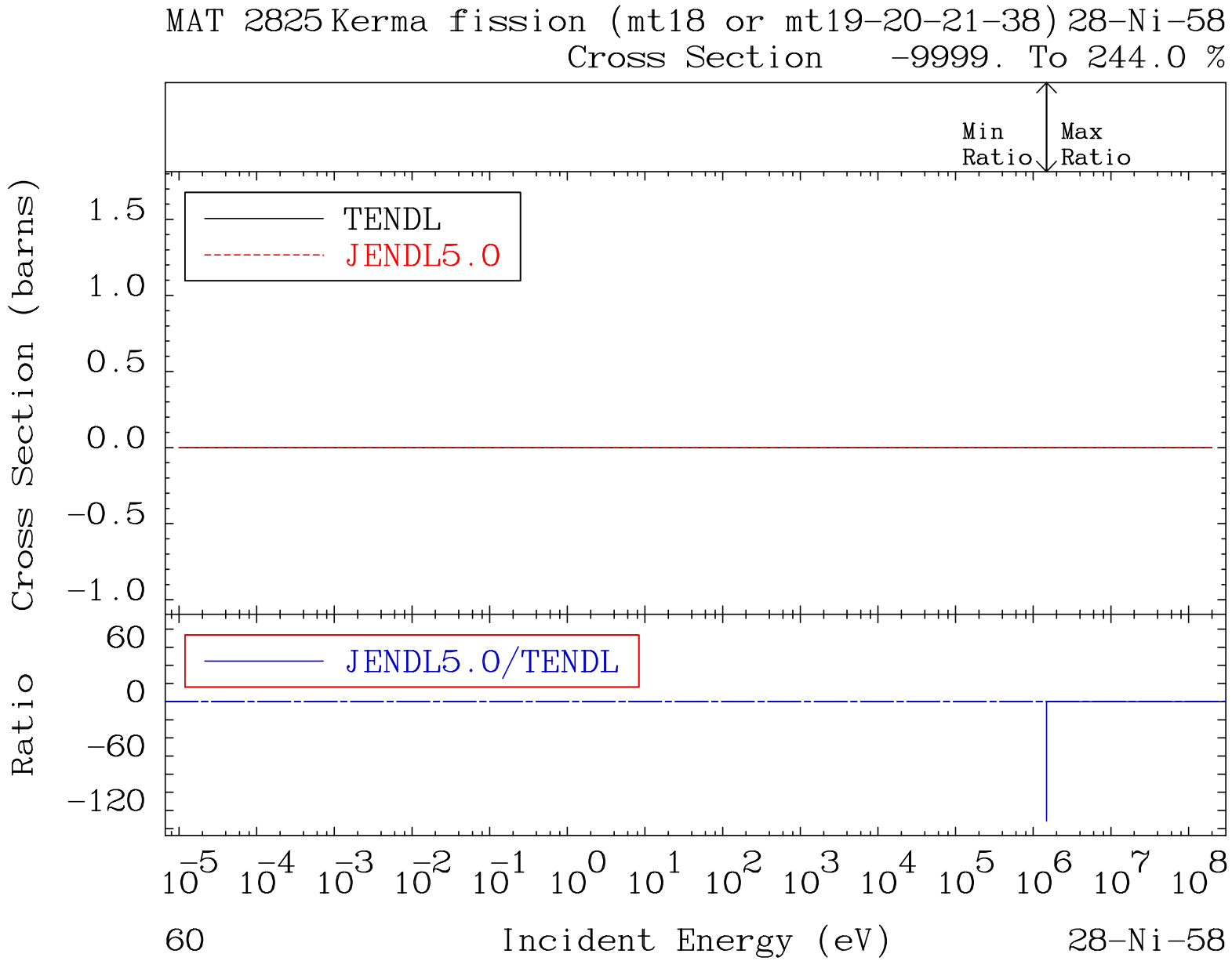

MAT 2825
Dpa total (eV-barns)
28-Ni-58
Cross Section -99.96 To 1783. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55
28-Ni-58

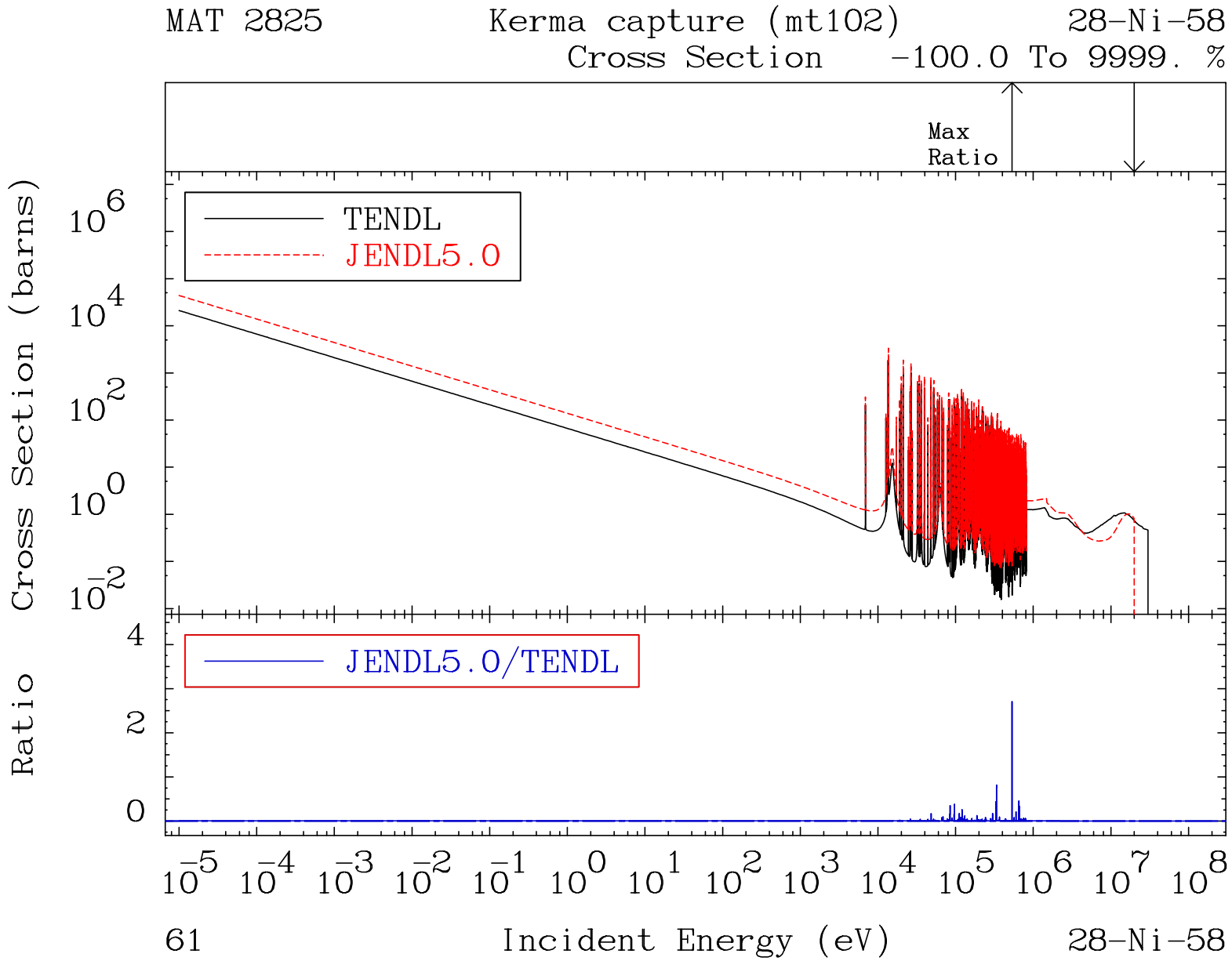

MAT 2825
Dpa elastic (mt2)
Cross Section
28-Ni-58
-99.97 To 1814. %
Max Ratio
Min Ratio
TENDL Threshold 593.75 eV
CENDL3.2 Threshold 581.25 eV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
56
28-Ni-58

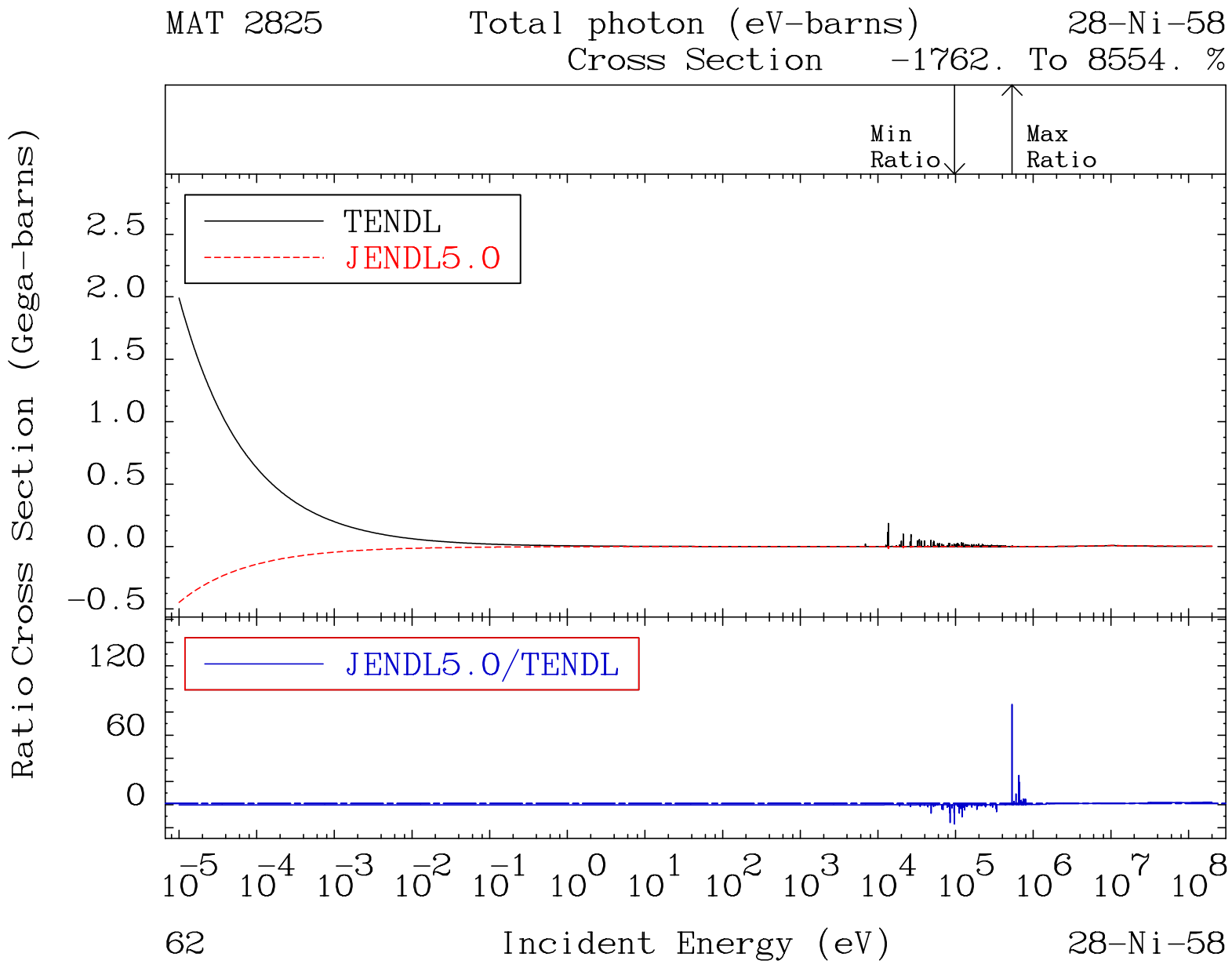

MAT 2825
Dpa inelastic (mt51-91)
28-Ni-58
Cross Section -16.38 To 217.9 %
Min
Ratio
TENDL Threshold 1.4795 MeV
CENDL3.2 Threshold 1.4795 MeV
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
CENDL3.2/TENDL
Ratio
3.0
1.5
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
57
Incident Energy (eV)
28-Ni-58

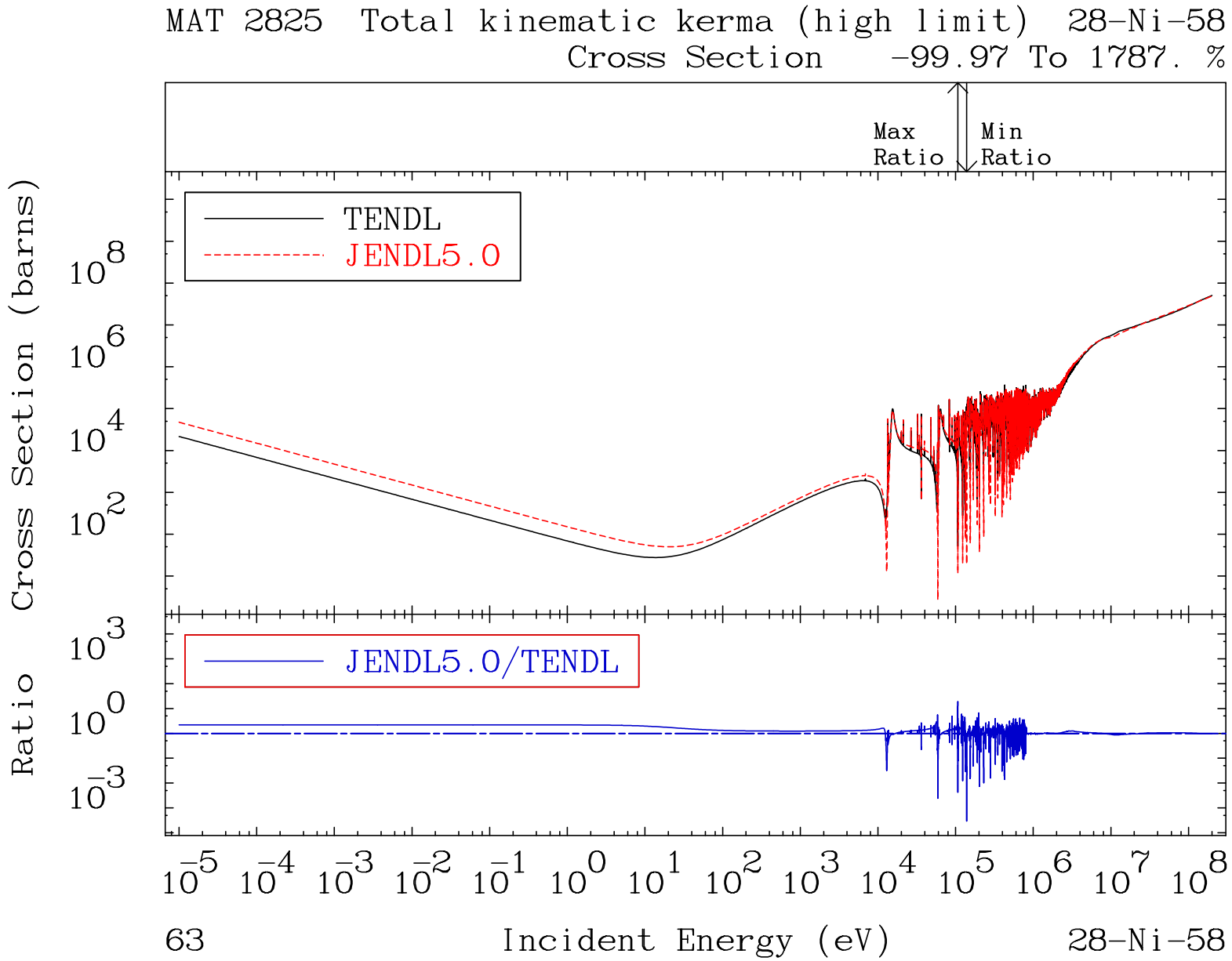

MAT 2825 Dpa disappearance (mt102 -120) 28-Ni-58
Cross Section -97.68 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
28-Ni-58

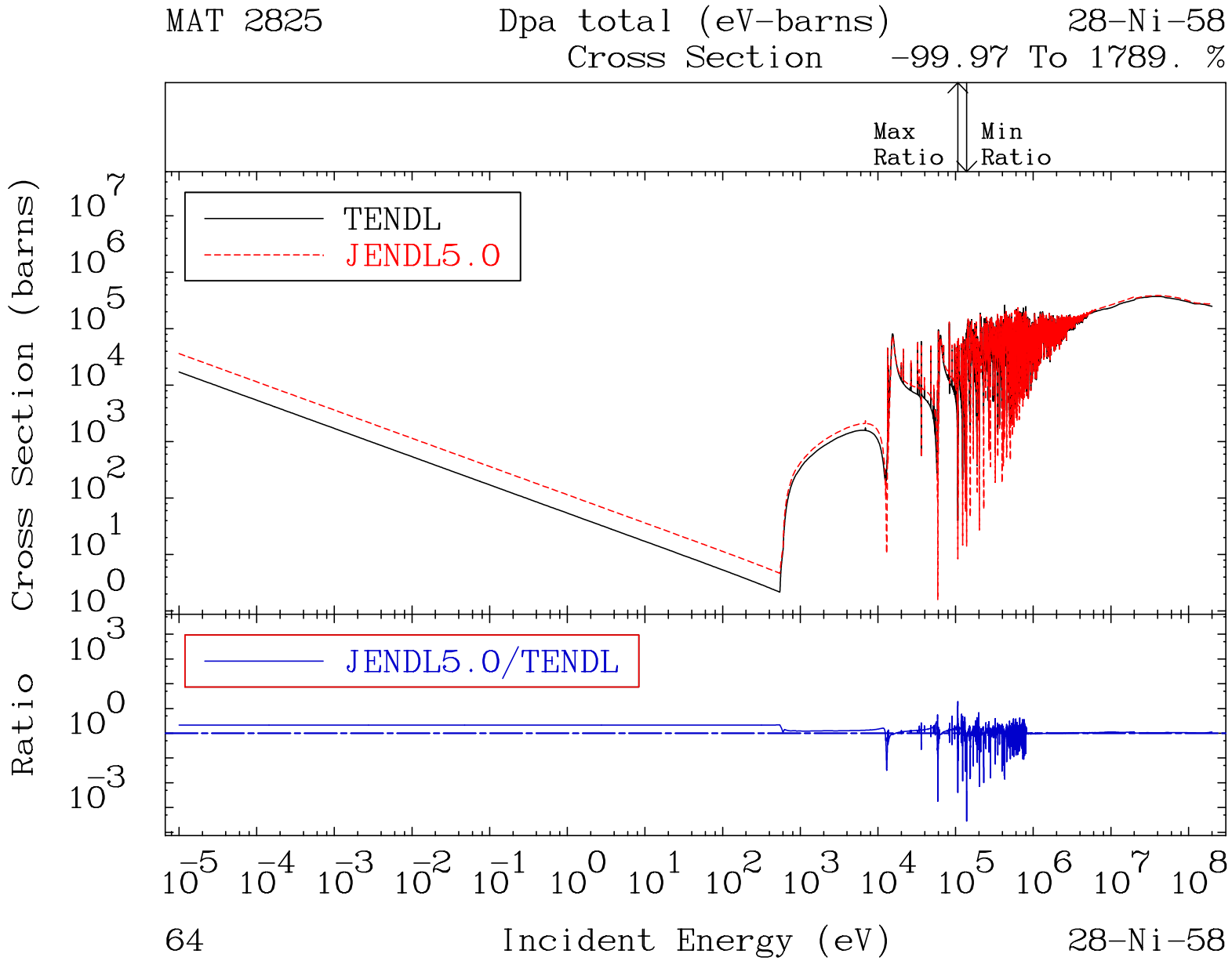

MAT 2825
Kerma inelastic (mt51-91)
28-Ni-58
Cross Section -9999. To 244.0 %
Min Ratio
Max Ratio
TENDL Threshold 1.4795 MeV
JENDL5.0 Threshold 150.17 keV
Cross Section (barns)
10^8
10^4
10^0
10^-4
10^-8
10^-12
JENDL5.0/TENDL
Ratio
60
0
-60
-120
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
59
Incident Energy (eV)
28-Ni-58

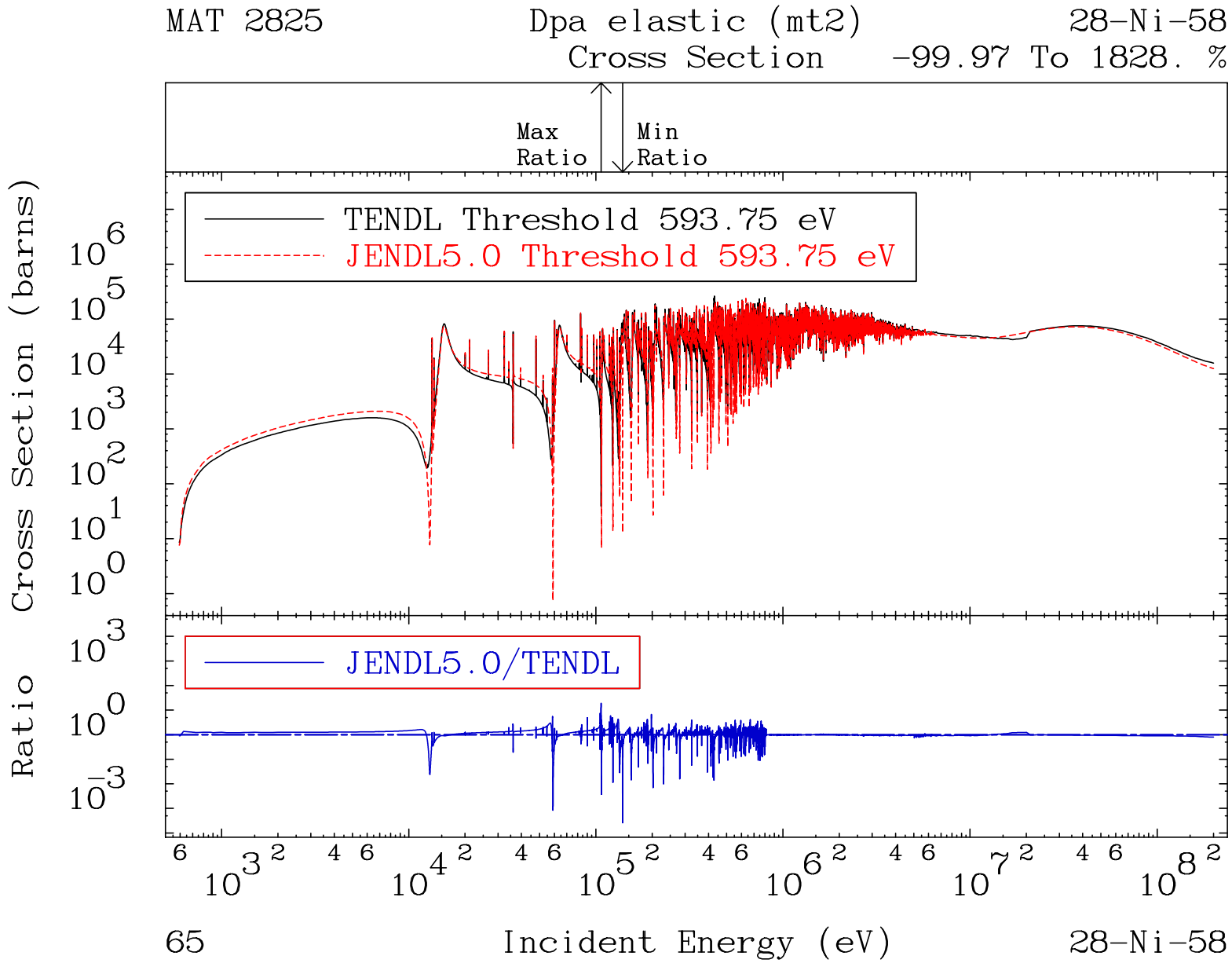

MAT 2825 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-58
Cross Section -9999. To 244.0 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
60
0
-60
-120
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
Incident Energy (eV)
60
28-Ni-58

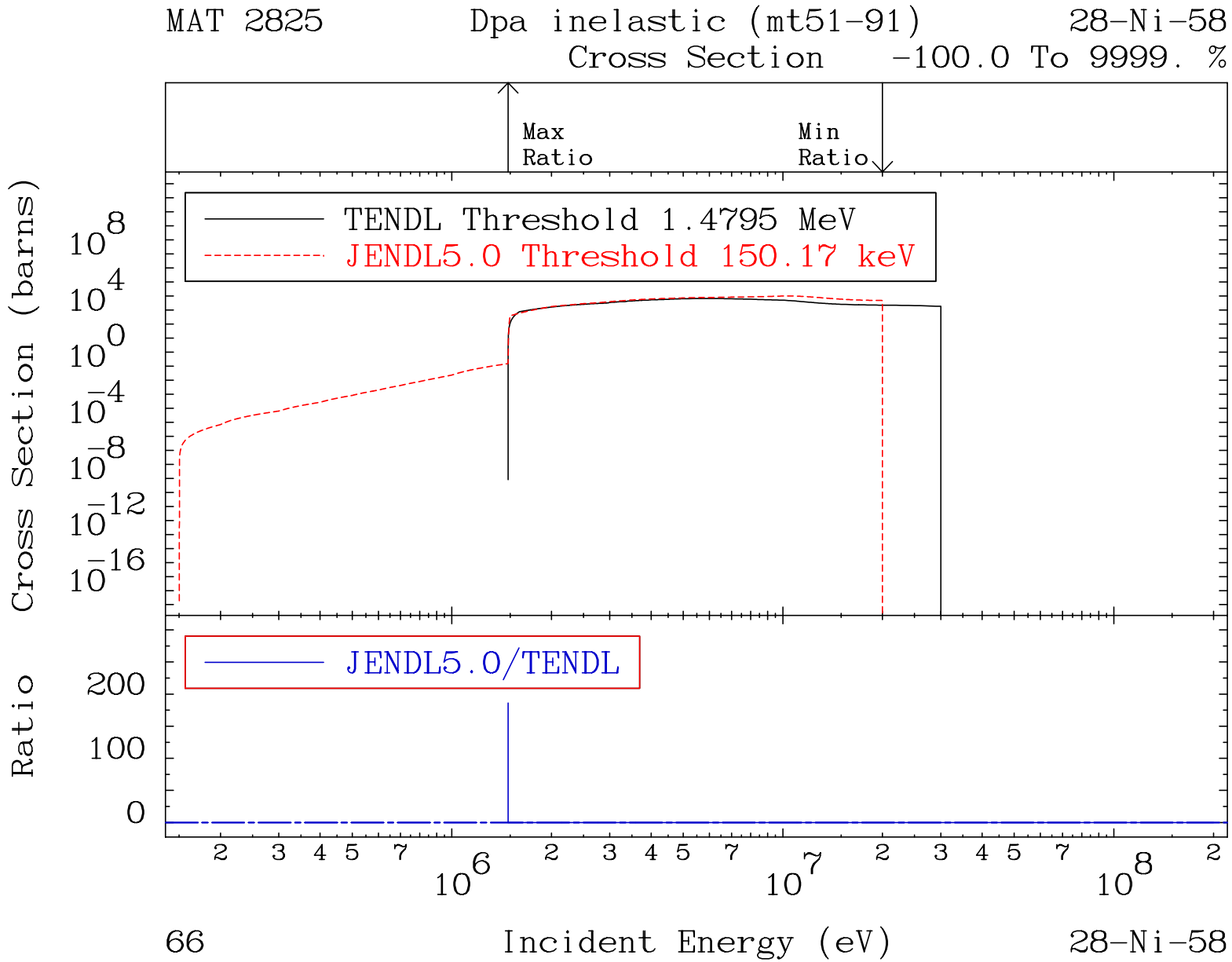

MAT 2825
Kerma capture (mt102)
28-Ni-58
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
28-Ni-58

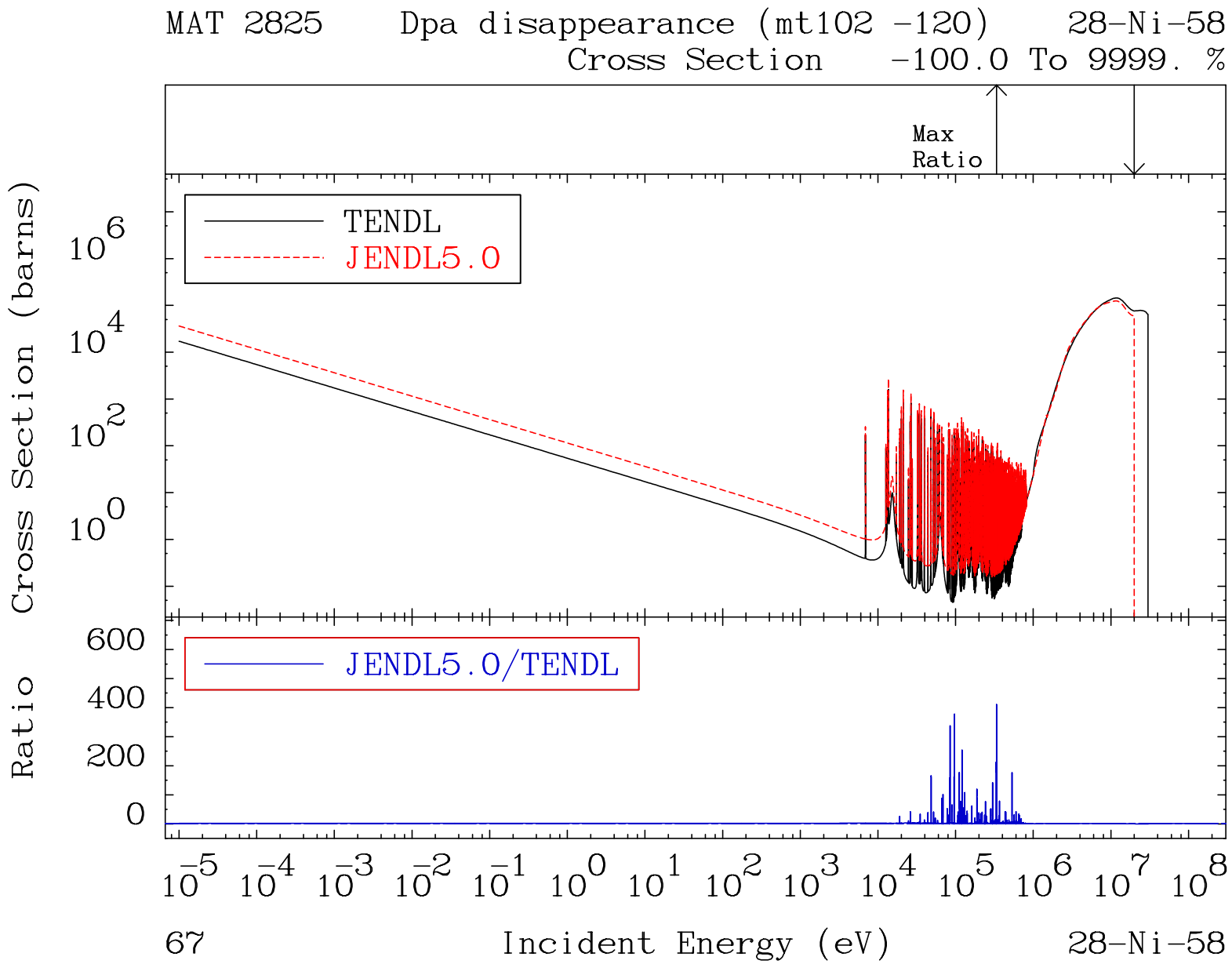

MAT 2825
Total photon (eV-barns)
28-Ni-58
Cross Section -1762. To 8554. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Ratio Cross Section (Giga-barns)
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
120
60
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
62
Incident Energy (eV)
28-Ni-58

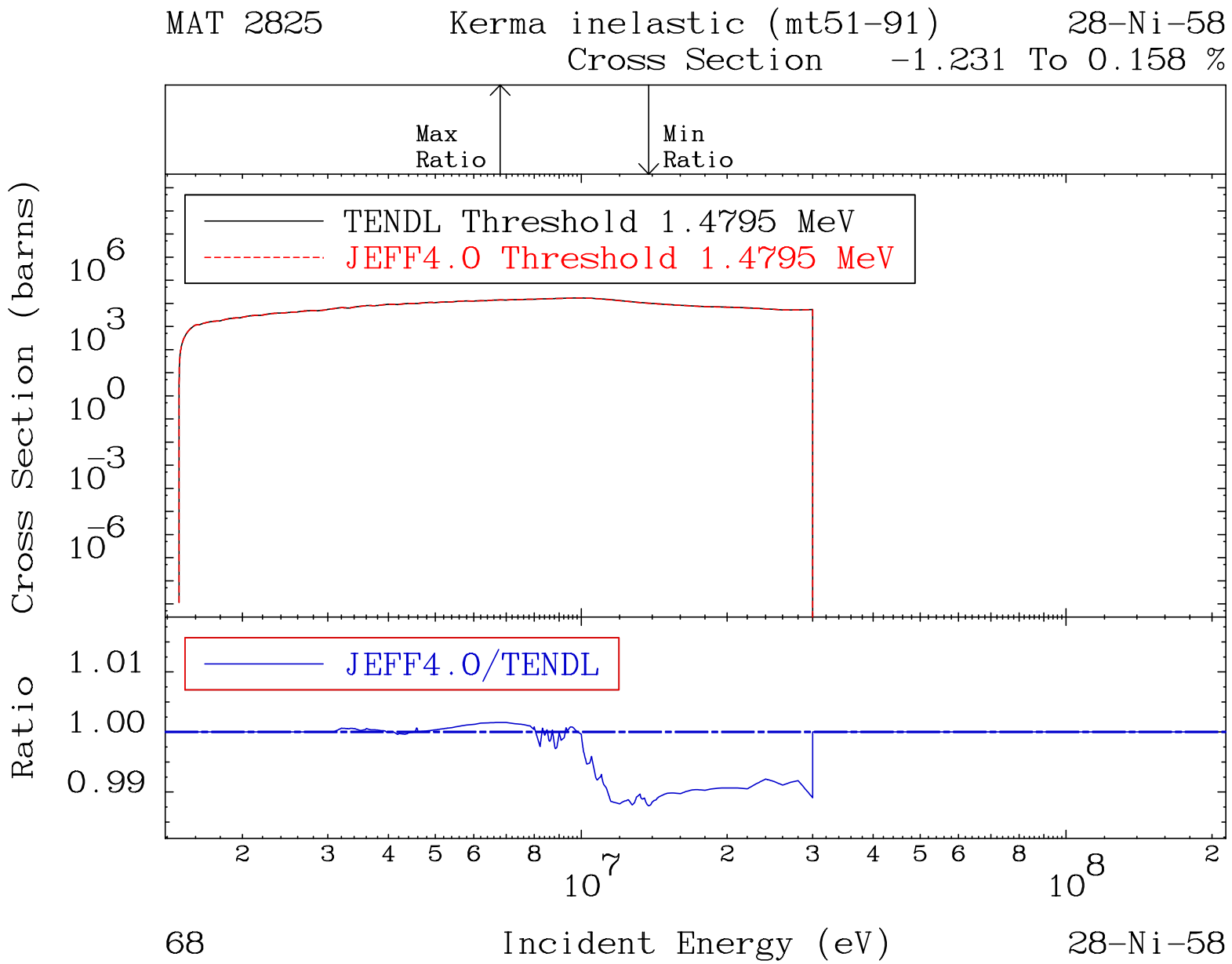

MAT 2825 Total kinematic kerma (high limit) 28-Ni-58
Cross Section -99.97 To 1787. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
63
28-Ni-58

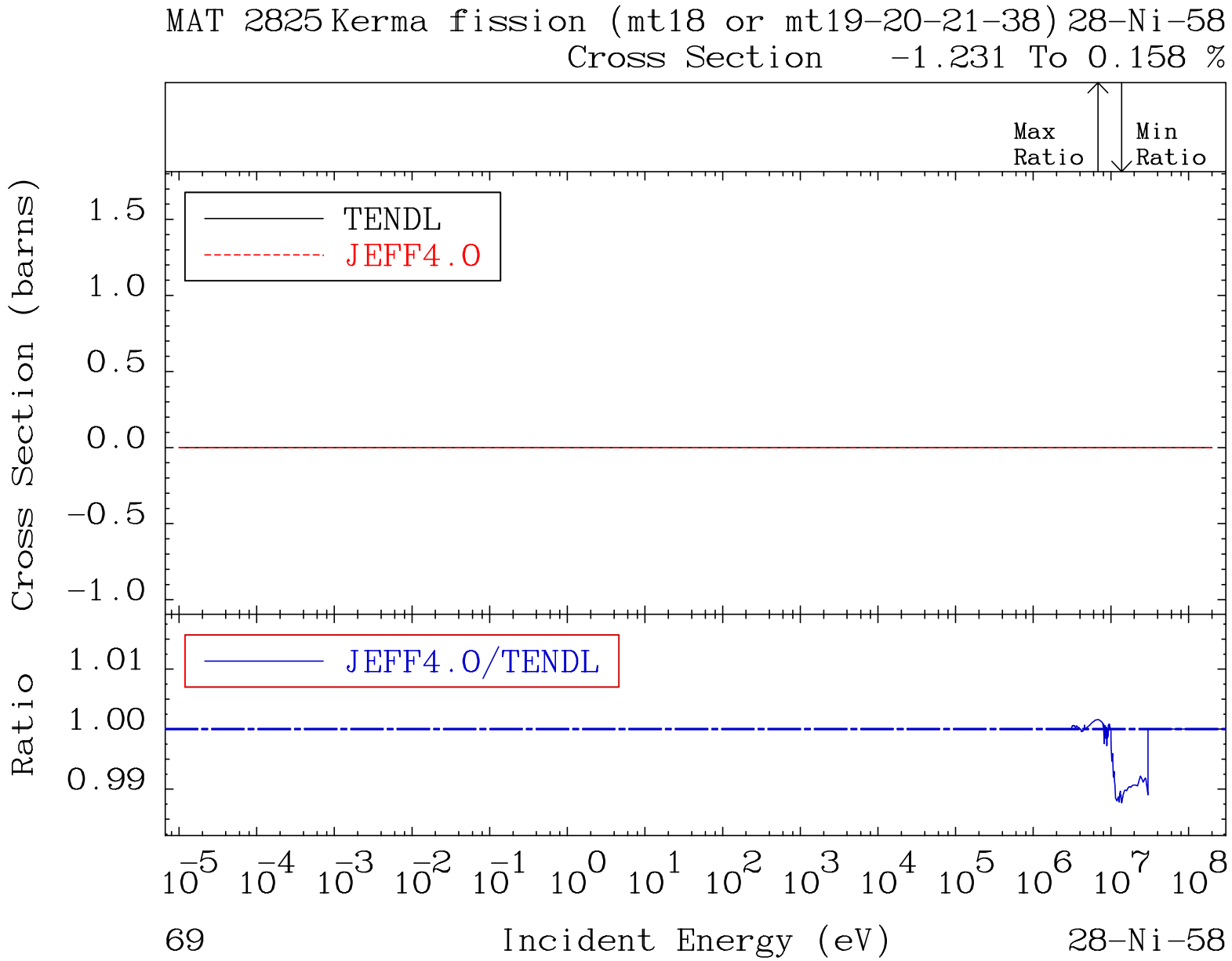

MAT 2825
Dpa total (eV-barns)
28-Ni-58
Cross Section -99.97 To 1789. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
64
28-Ni-58

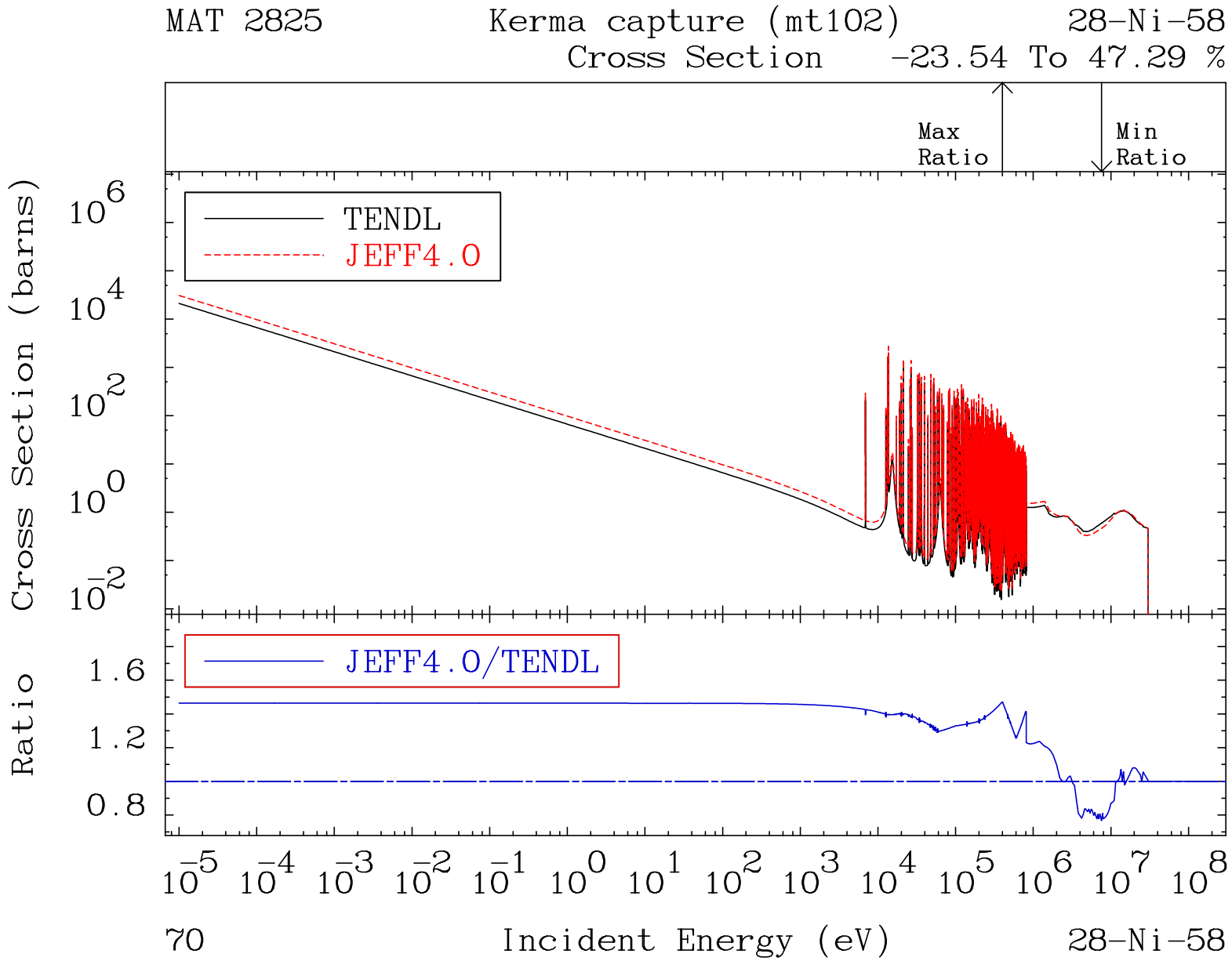

MAT 2825
Dpa elastic (mt2)
Cross Section
28-Ni-58
-99.97 To 1828. %
Max Ratio
Min Ratio
TENDL Threshold 593.75 eV
JENDL5.0 Threshold 593.75 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
65
28-Ni-58

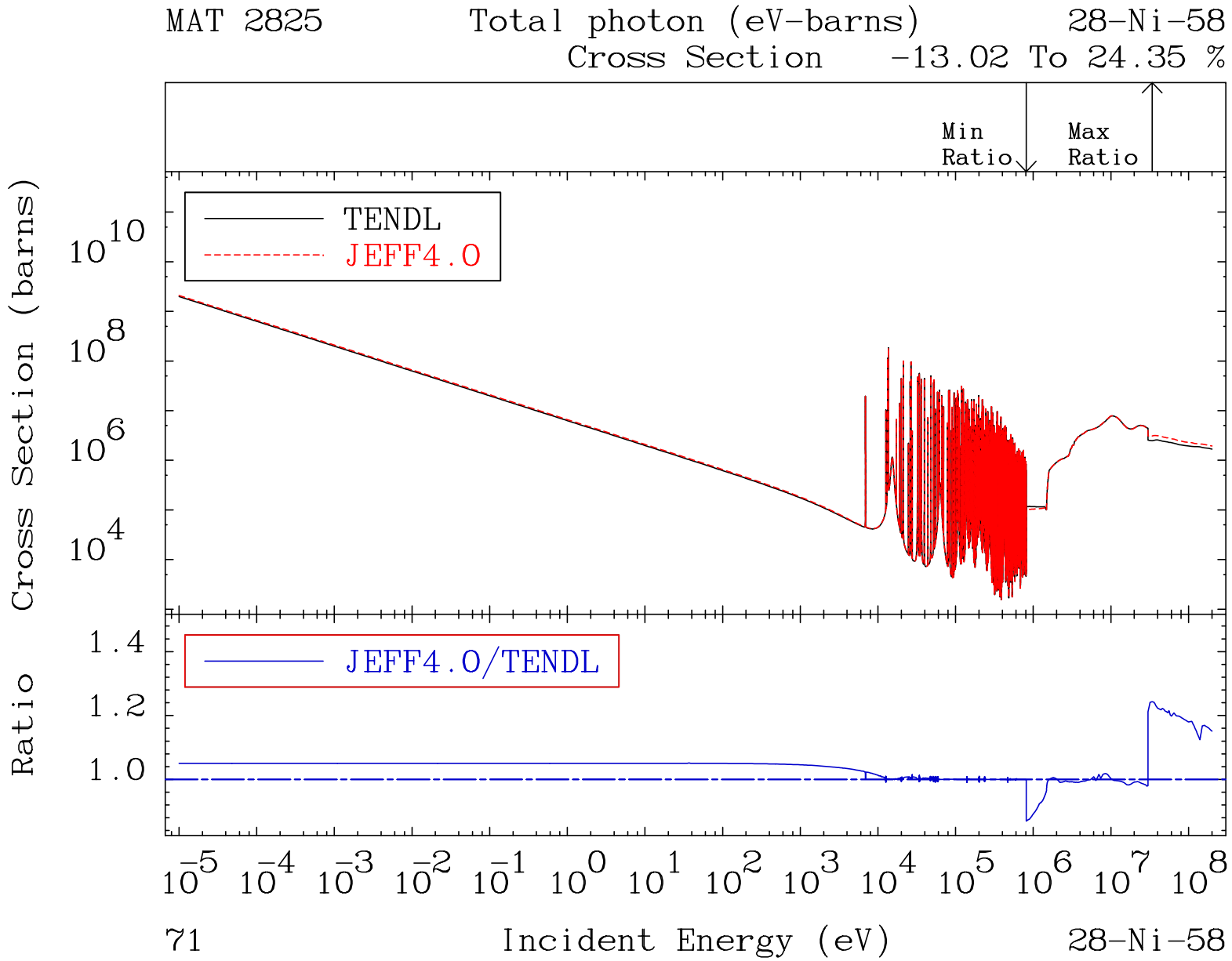

MAT 2825
Dpa inelastic (mt51-91)
28-Ni-58
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.4795 MeV
JENDL5.0 Threshold 150.17 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
66
Incident Energy (eV)
28-Ni-58

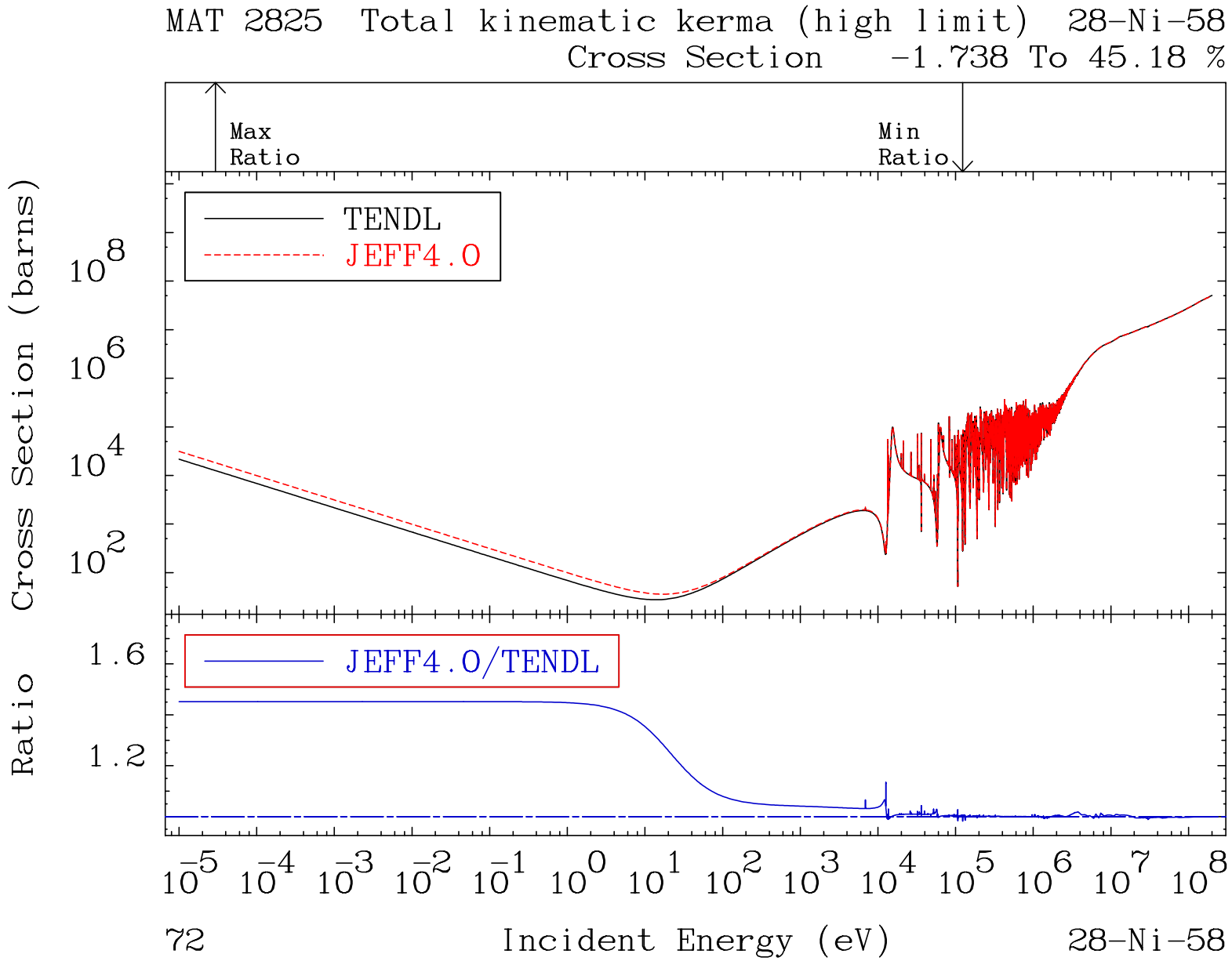

MAT 2825 Dpa disappearance (mt102 -120) 28-Ni-58
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
67
28-Ni-58

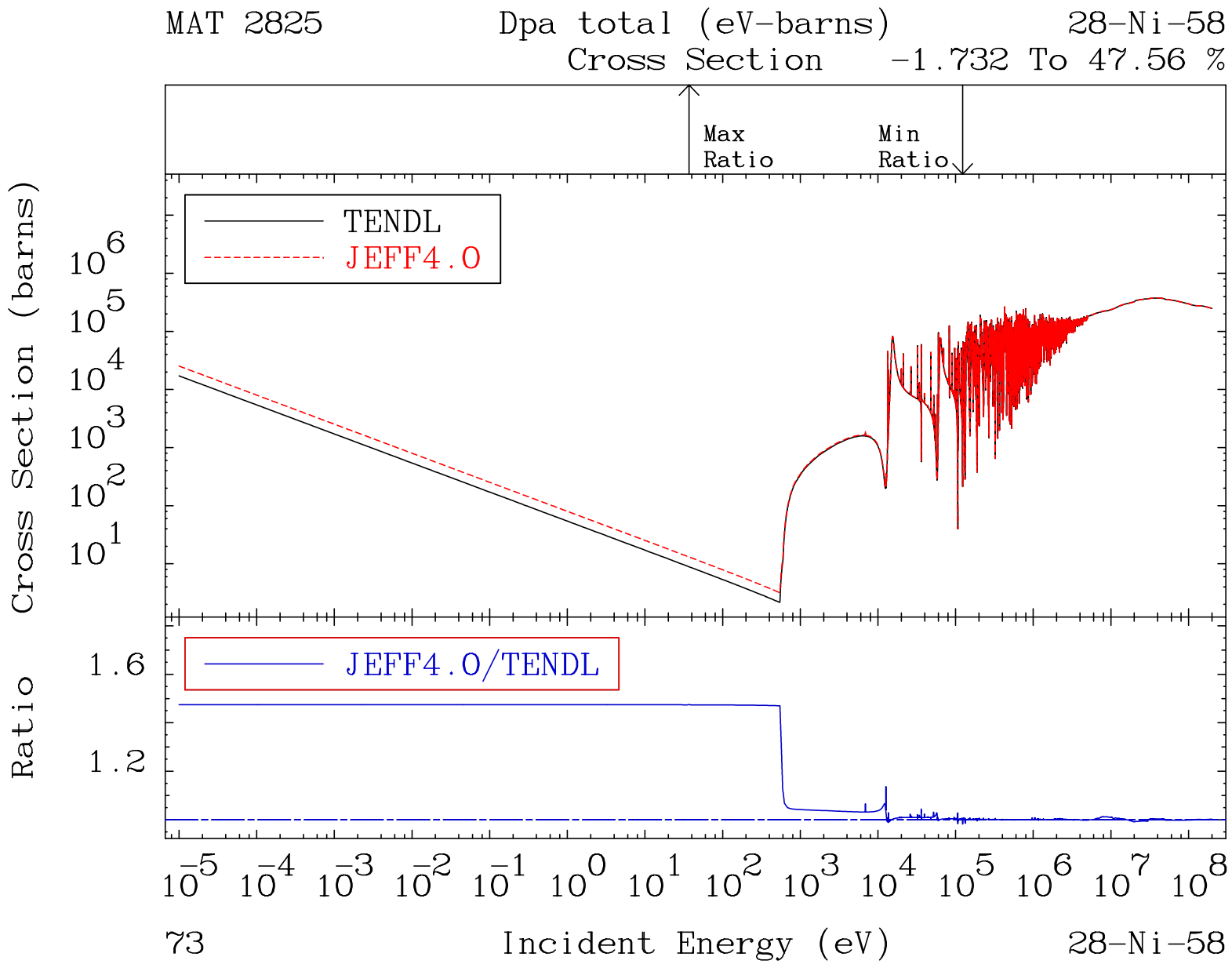

MAT 2825
Kerma inelastic (mt51-91)
28-Ni-58
Cross Section -1.231 To 0.158 %
Max Ratio
Min Ratio
TENDL Threshold 1.4795 MeV
JEFF4.0 Threshold 1.4795 MeV
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
JEFF4.0/TENDL
Ratio
1.01
1.00
0.99
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
68
Incident Energy (eV)
28-Ni-58

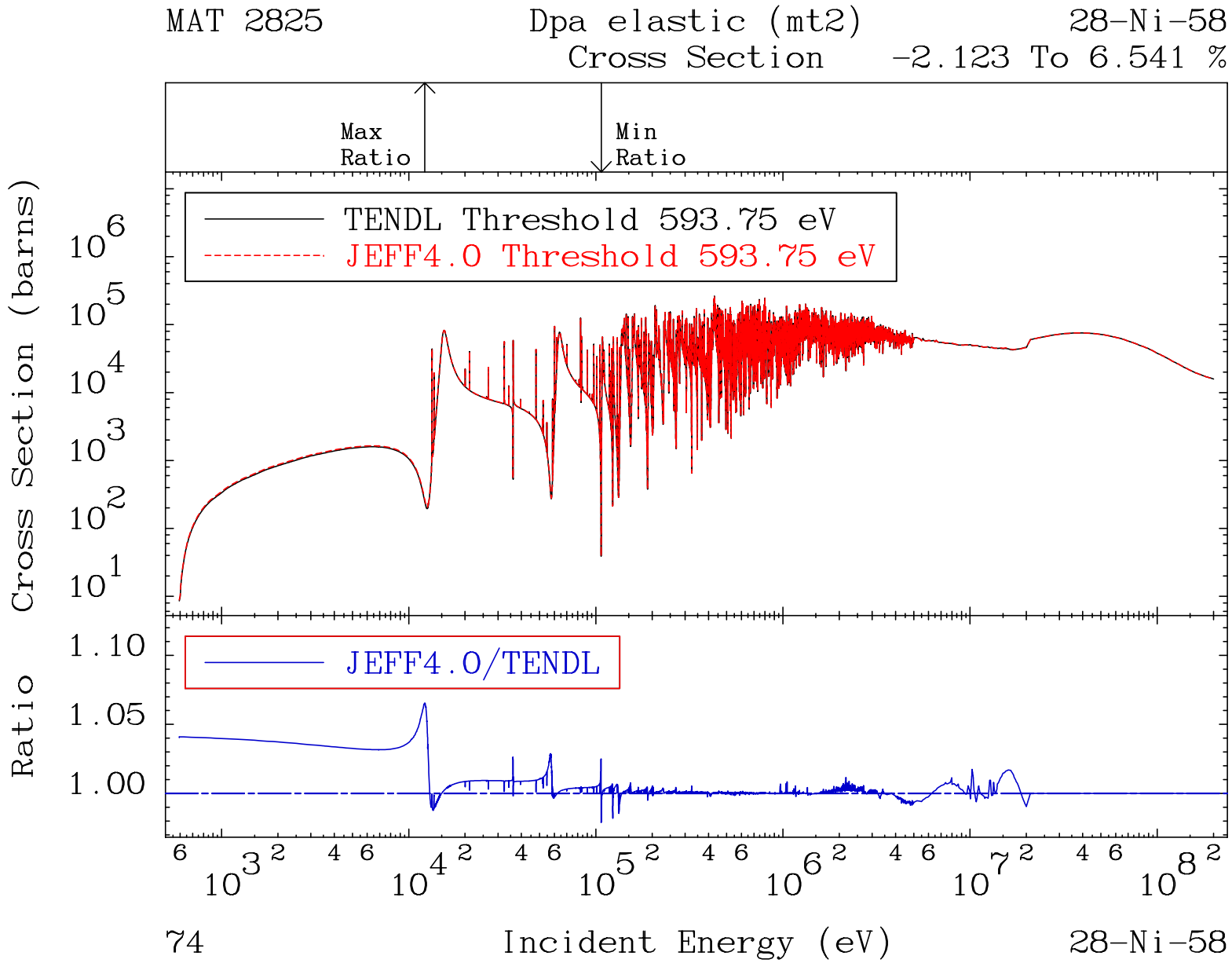

MAT 2825 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-58
Cross Section -1.231 To 0.158 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
1.01
1.00
0.99
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
69
Incident Energy (eV)
28-Ni-58

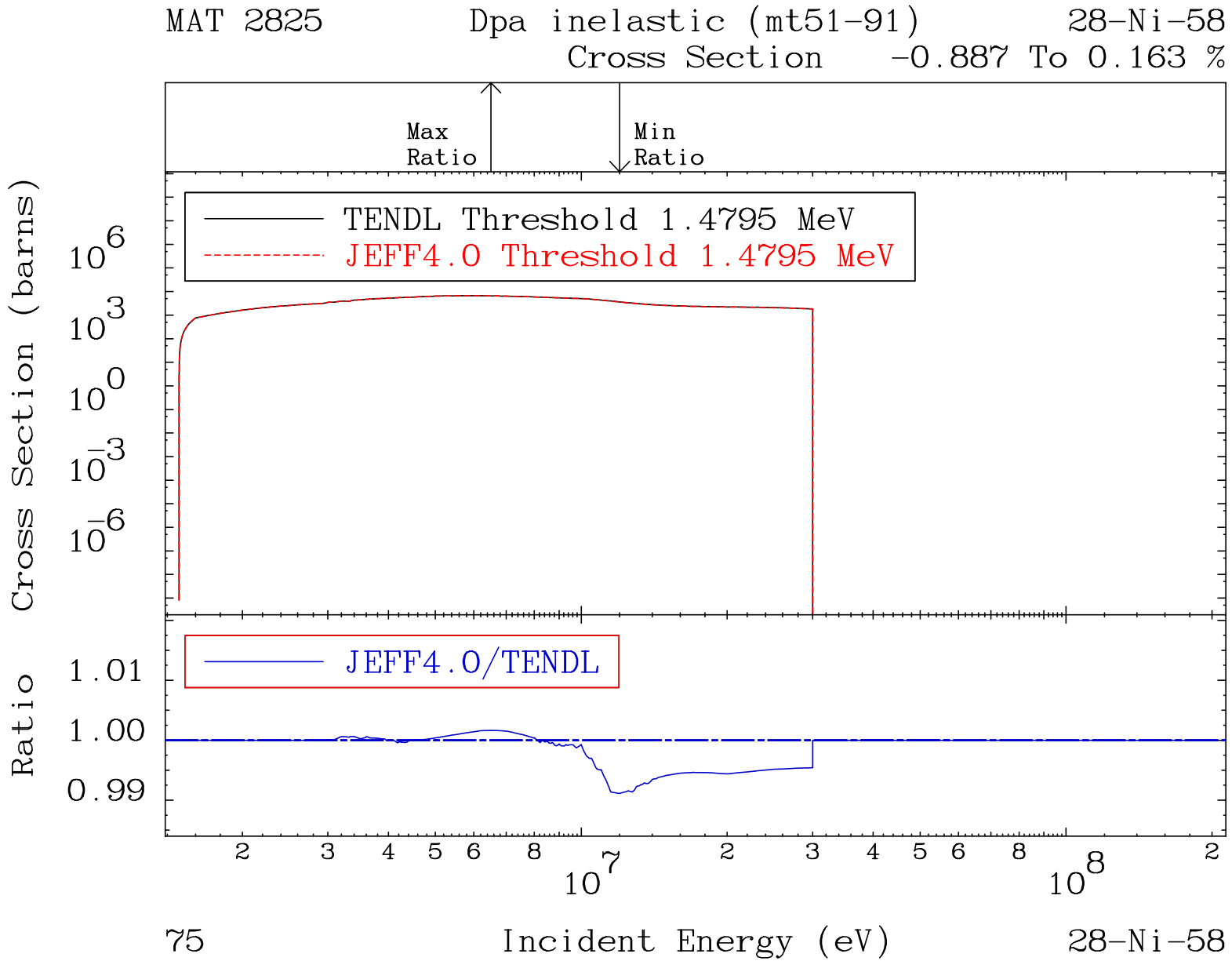

MAT 2825
Kerma capture (mt102)
28-Ni-58
Cross Section -23.54 To 47.29 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
70
28-Ni-58

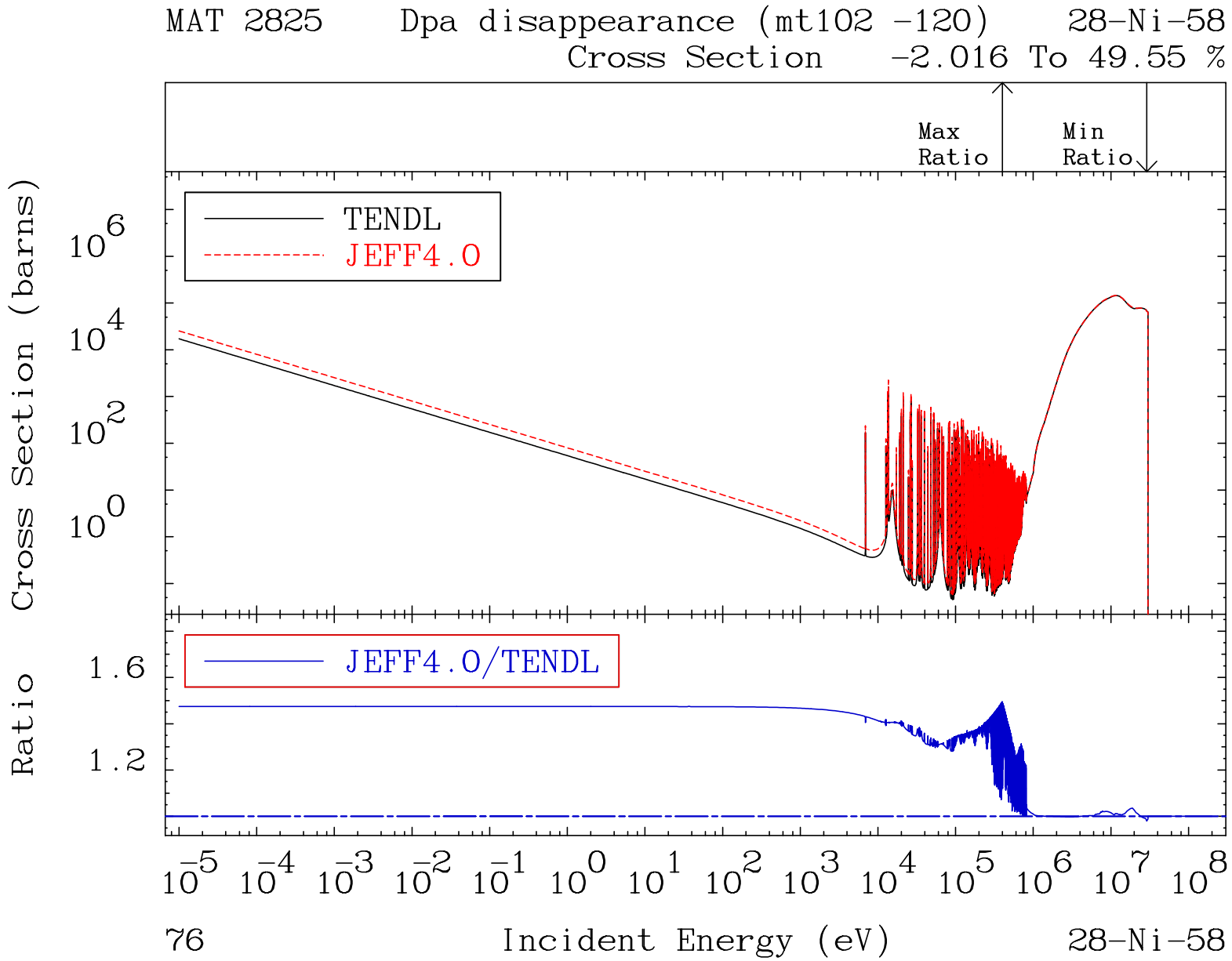

MAT 2825
Total photon (eV-barns)
28-Ni-58
Cross Section -13.02 To 24.35 %
Min Ratio
Max Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
71
28-Ni-58

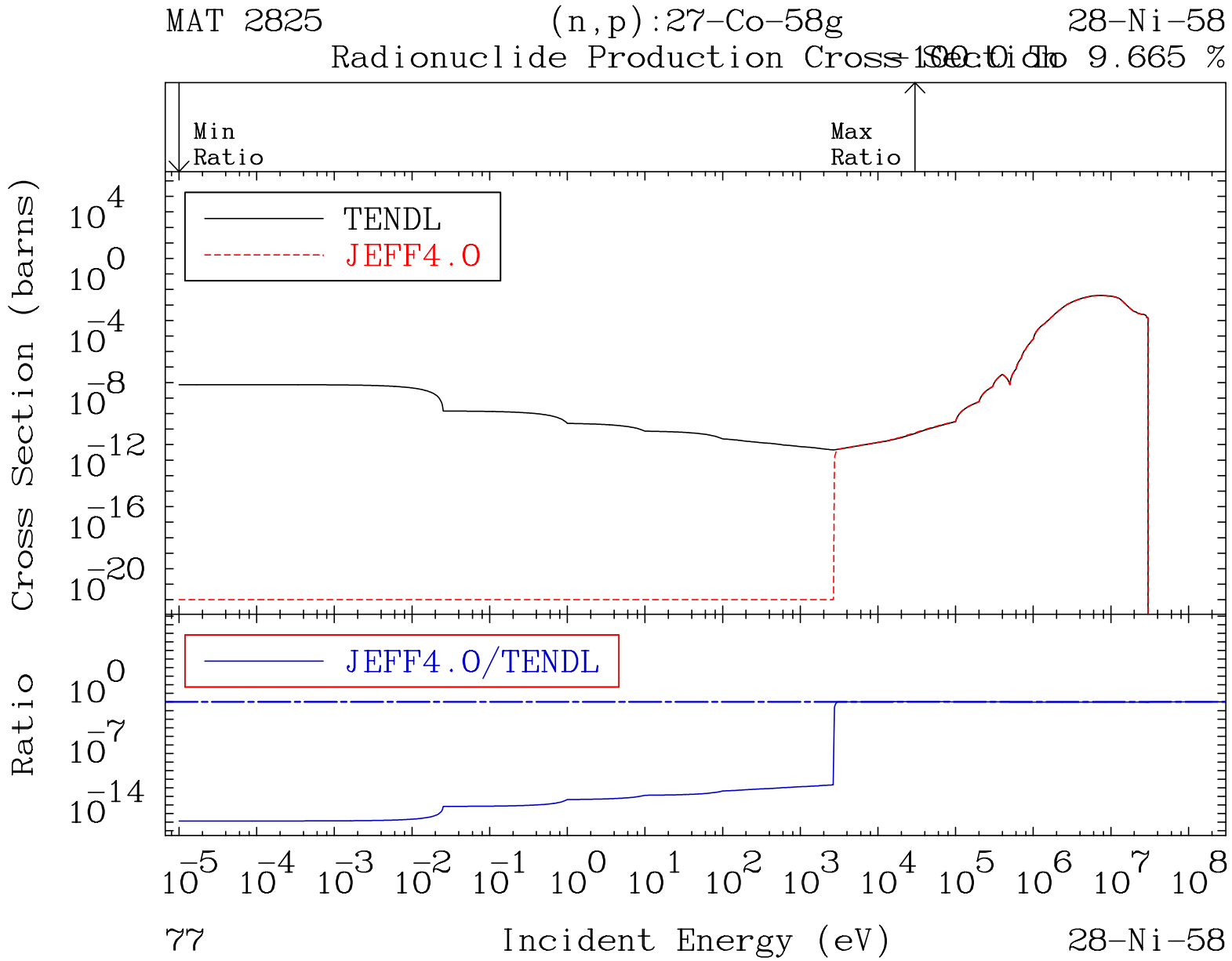

MAT 2825 Total kinematic kerma (high limit) 28-Ni-58
Cross Section -1.738 To 45.18 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
Cross Section (barns)
10^8
10^6
10^4
10^2
JEFF4.0/TENDL
Ratio
1.6
1.2
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
72
Incident Energy (eV)
28-Ni-58

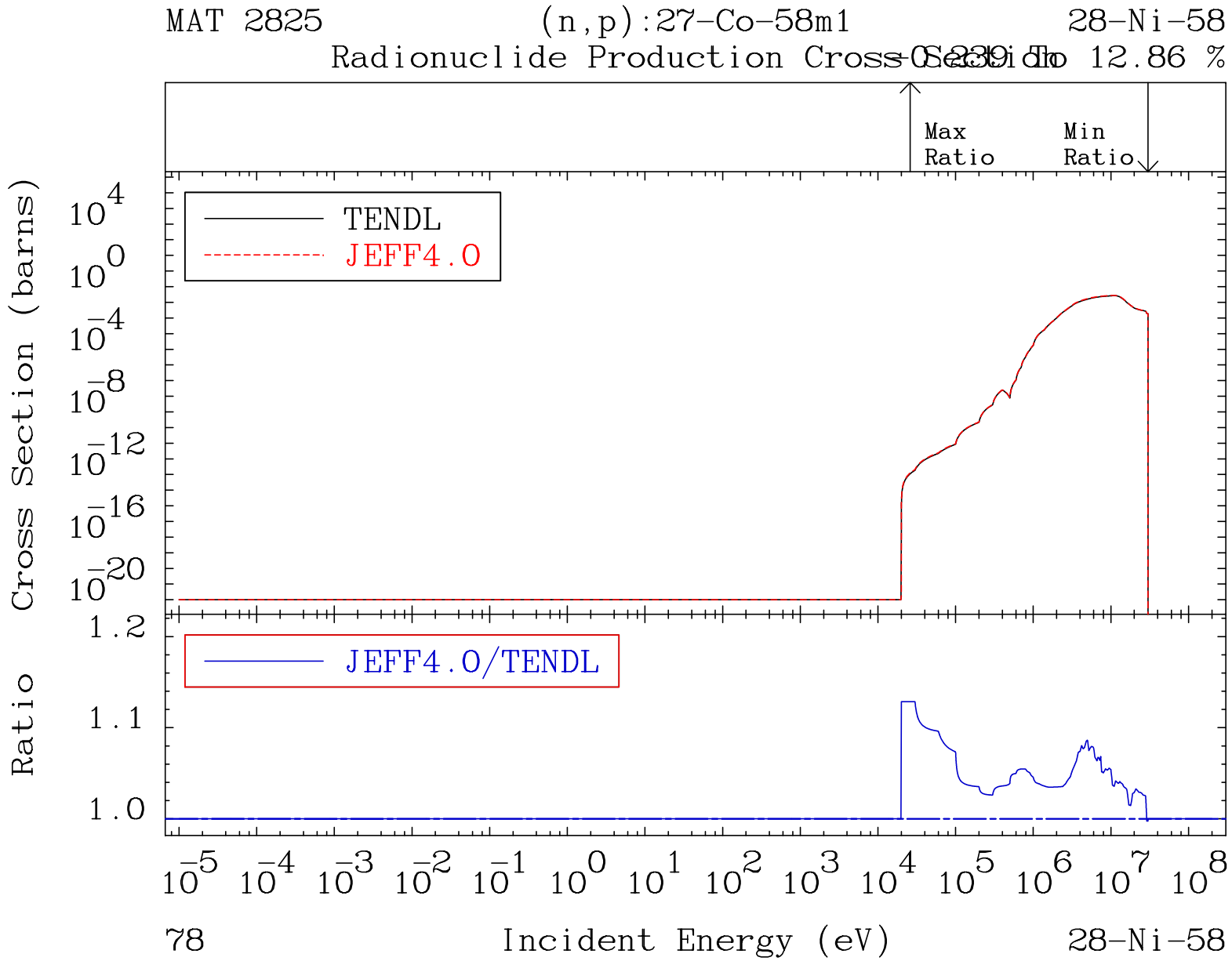

MAT 2825
Dpa total (eV-barns)
28-Ni-58
Cross Section -1.732 To 47.56 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
73
28-Ni-58


MAT 2825
Dpa elastic (mt2)
Cross Section
28-Ni-58
-2.123 To 6.541 %
Max Ratio
Min Ratio
TENDL Threshold 593.75 eV
JEFF4.0 Threshold 593.75 eV
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
74
28-Ni-58


MAT 2825
Dpa inelastic (mt51-91)
28-Ni-58
Cross Section -0.887 To 0.163 %
Max Ratio
Min Ratio
TENDL Threshold 1.4795 MeV
JEFF4.0 Threshold 1.4795 MeV
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
JEFF4.0/TENDL
Ratio
1.01
1.00
0.99
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
75
Incident Energy (eV)
28-Ni-58


MAT 2825 Dpa disappearance (mt102 -120) 28-Ni-58
Cross Section -2.016 To 49.55 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
76
28-Ni-58


MAT 2825
(n,p):27-Co-58g
28-Ni-58
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
77
28-Ni-58


MAT 2825
(n,p):27-Co-58m1
28-Ni-58
Radionuclide Production Cross Section
0.239 to 12.86 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
78
28-Ni-58