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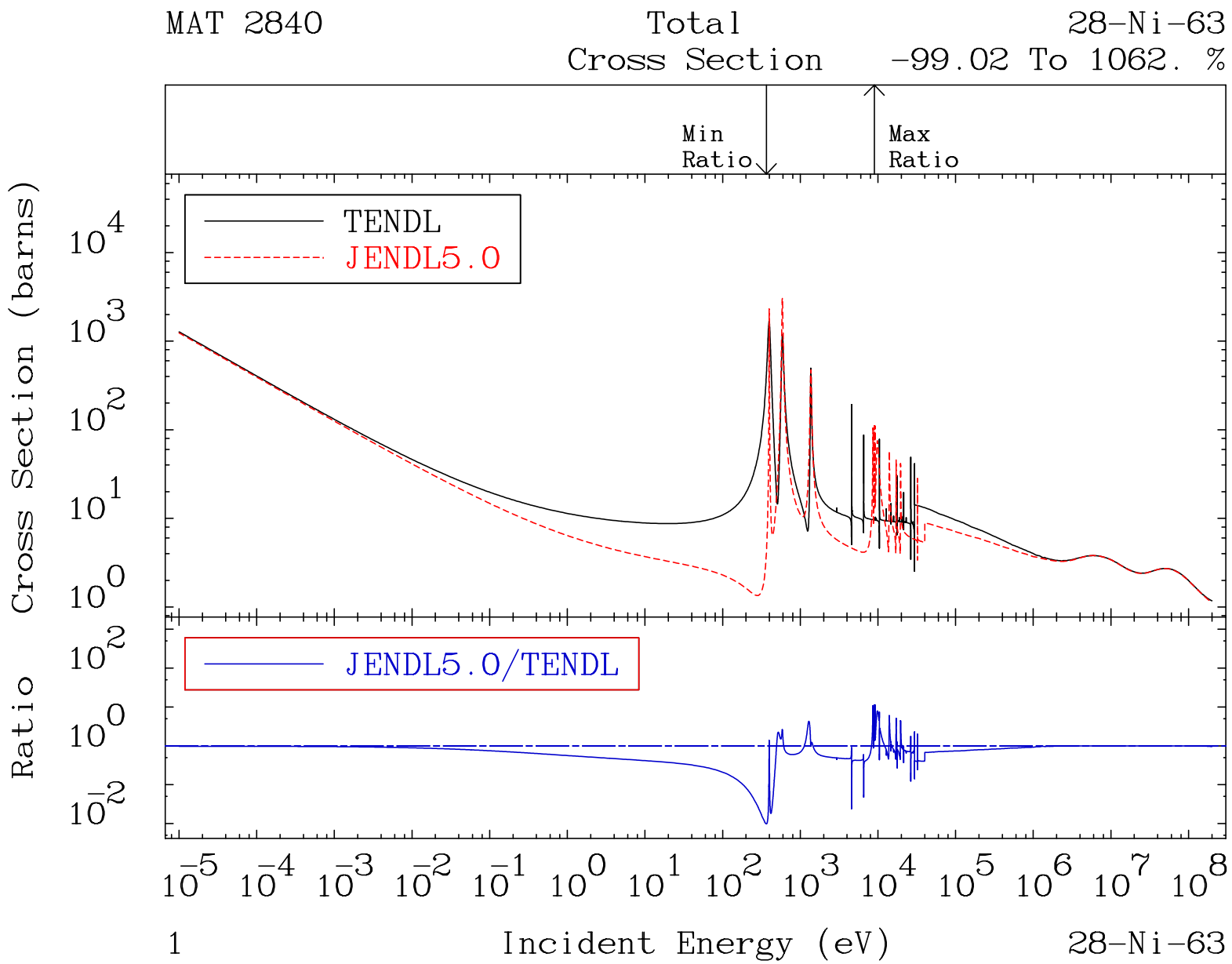
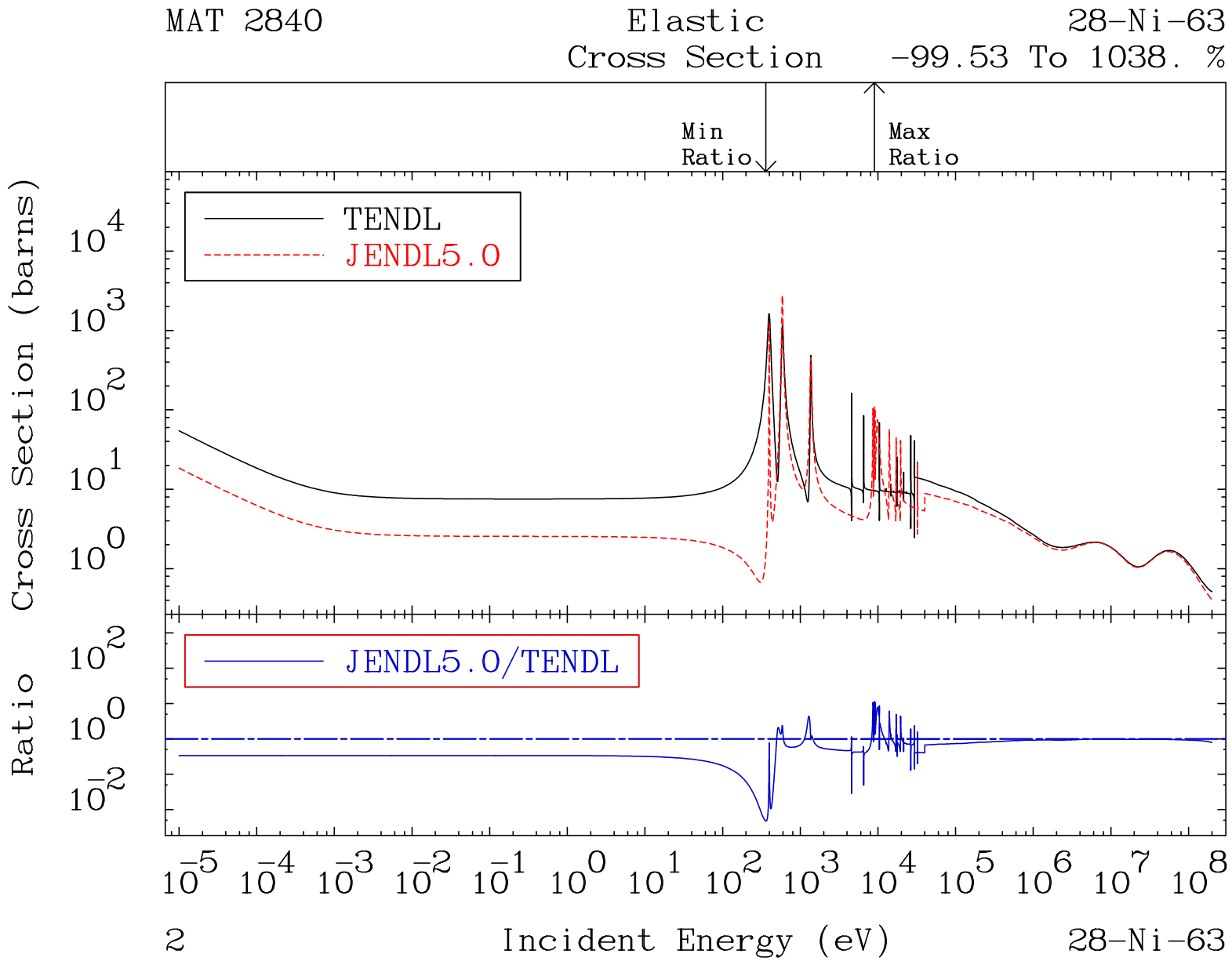
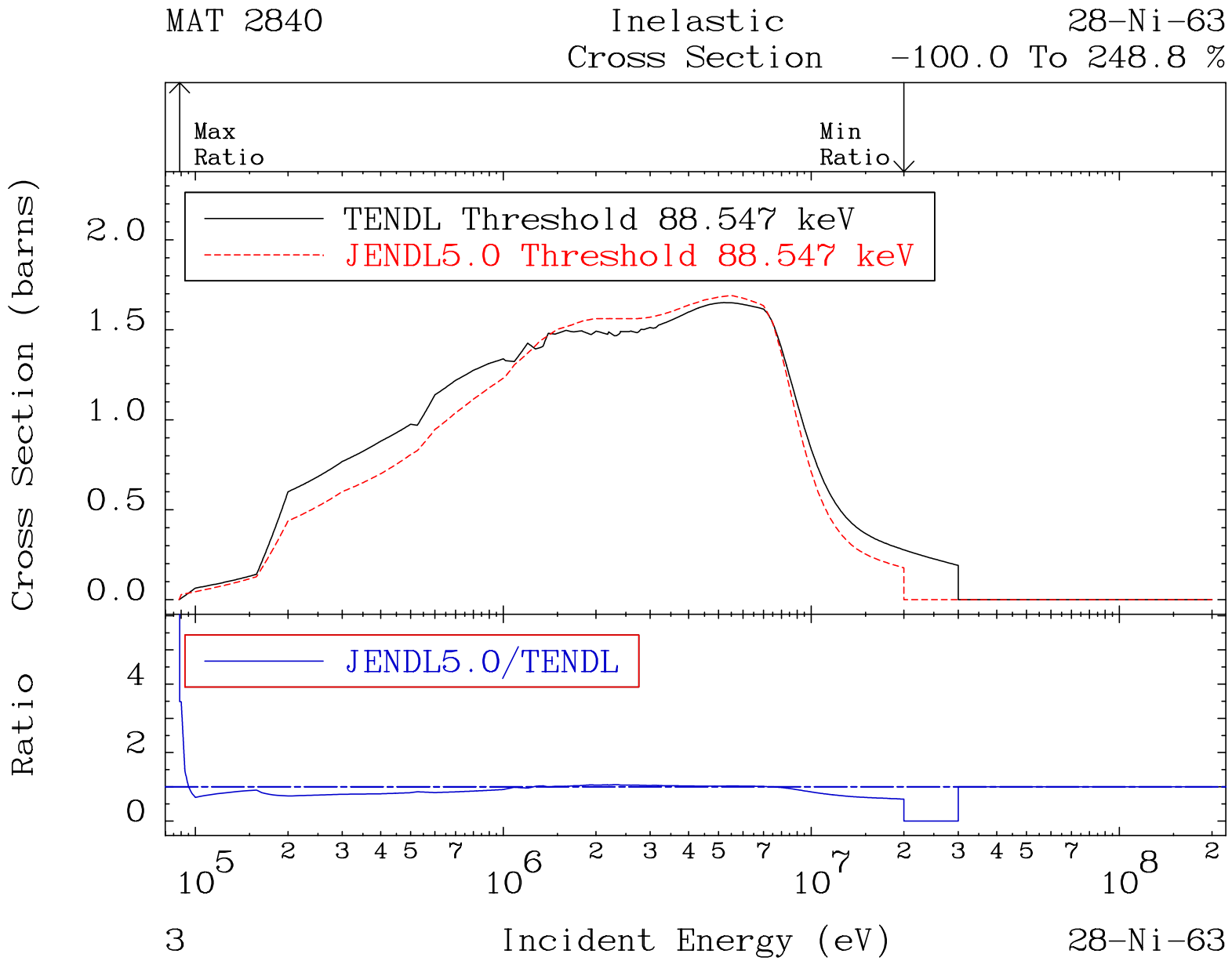
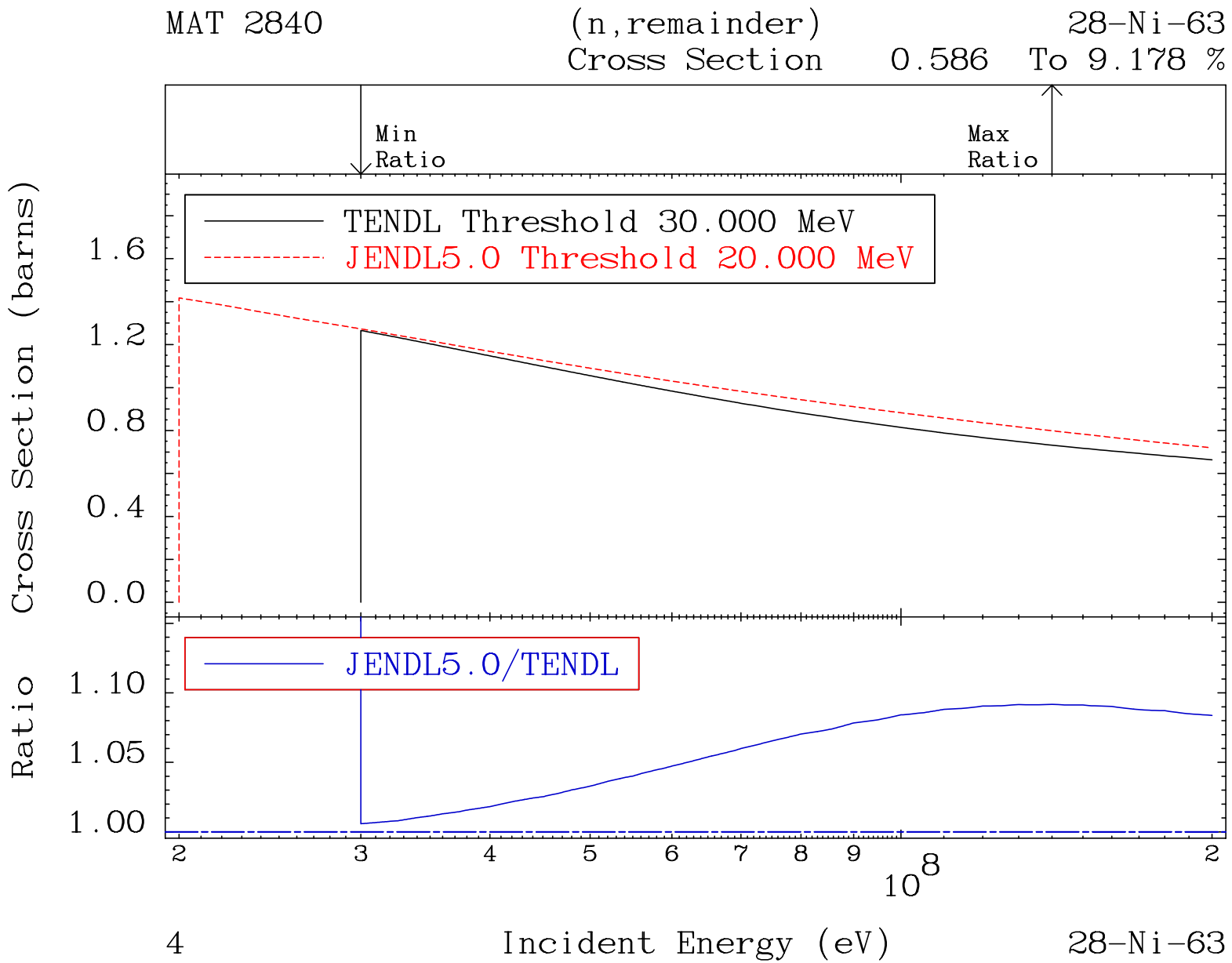
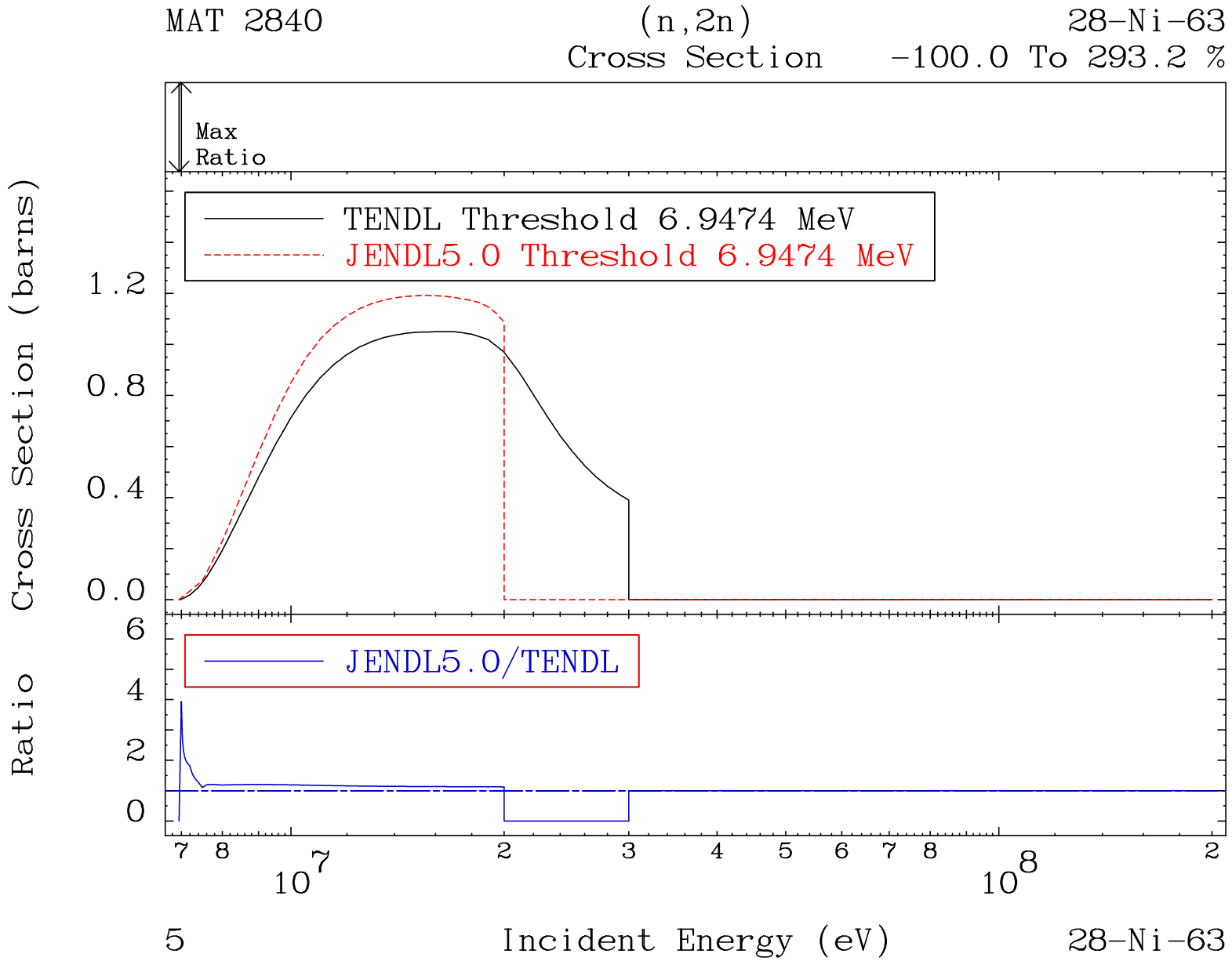
Press Mouse Button to Start

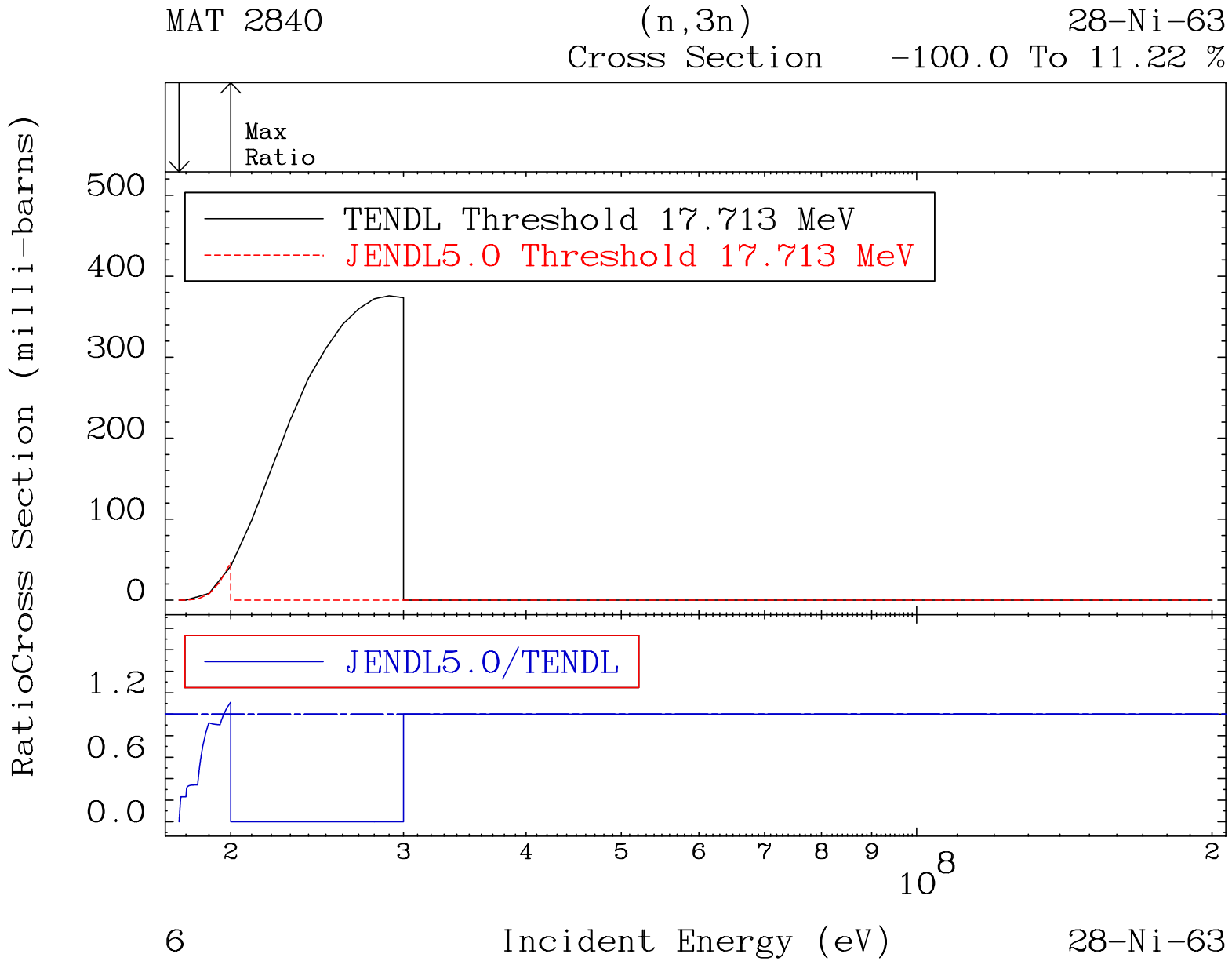

MAT 2840
Total
Cross Section
28-Ni-63
-99.02 To 1062. %
Min
Ratio
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
28-Ni-63

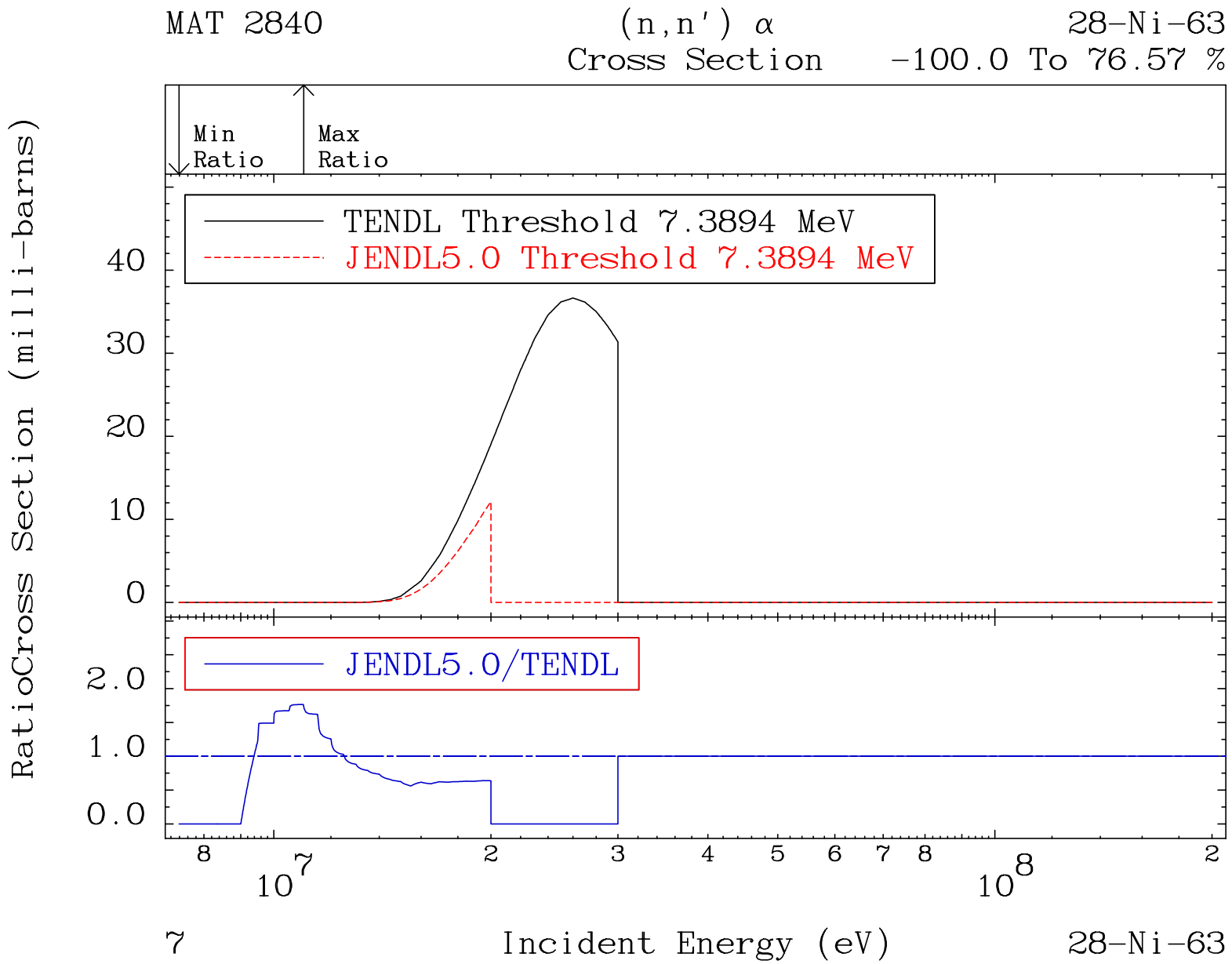

MAT 2840
Elastic
Cross Section
28-Ni-63
-99.53 To 1038. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
28-Ni-63

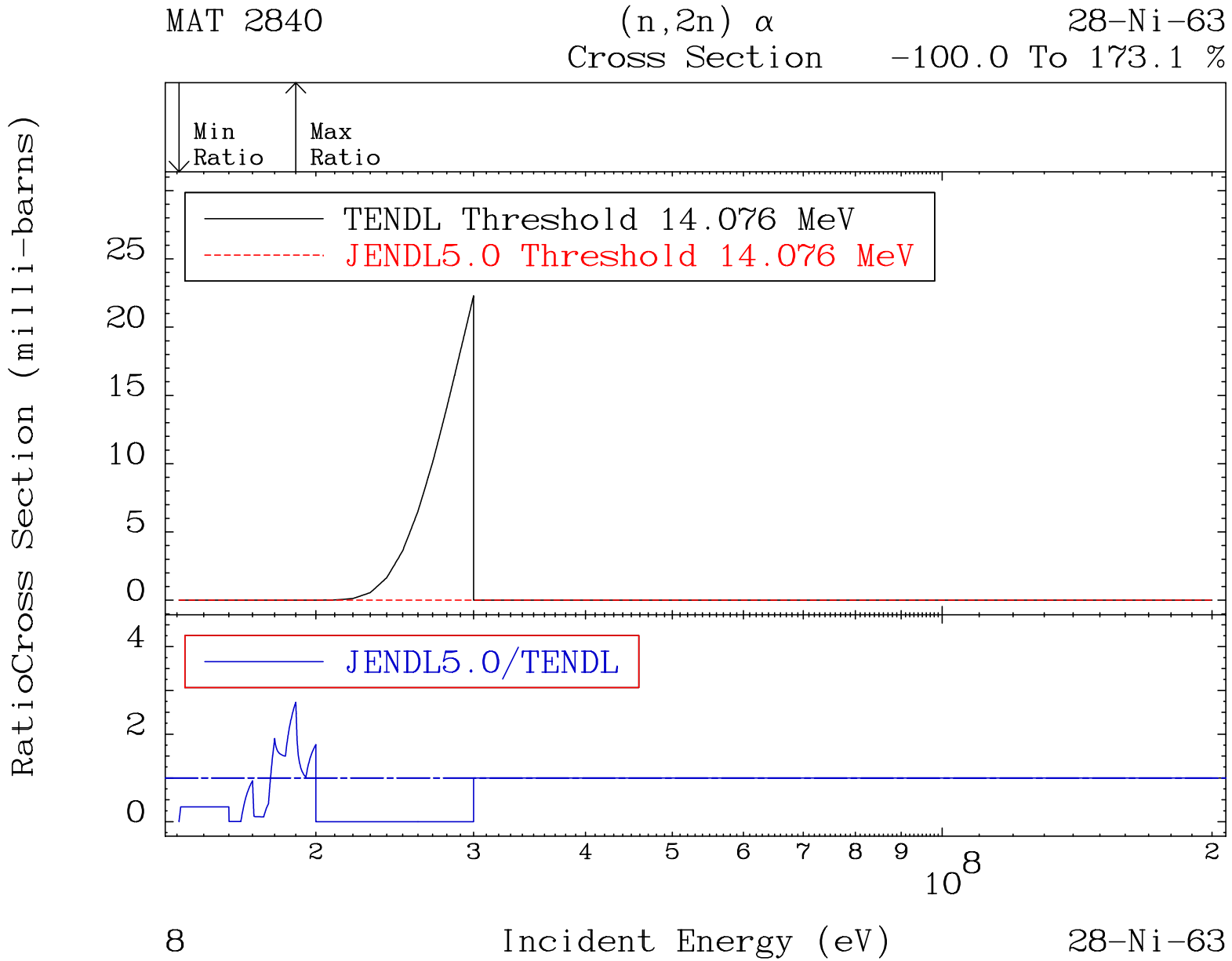

MAT 2840
Inelastic
Cross Section
28-Ni-63
-100.0 To 248.8 %
Max
Ratio
Min
Ratio
TENDL Threshold 88.547 keV
JENDL5.0 Threshold 88.547 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
28-Ni-63
3

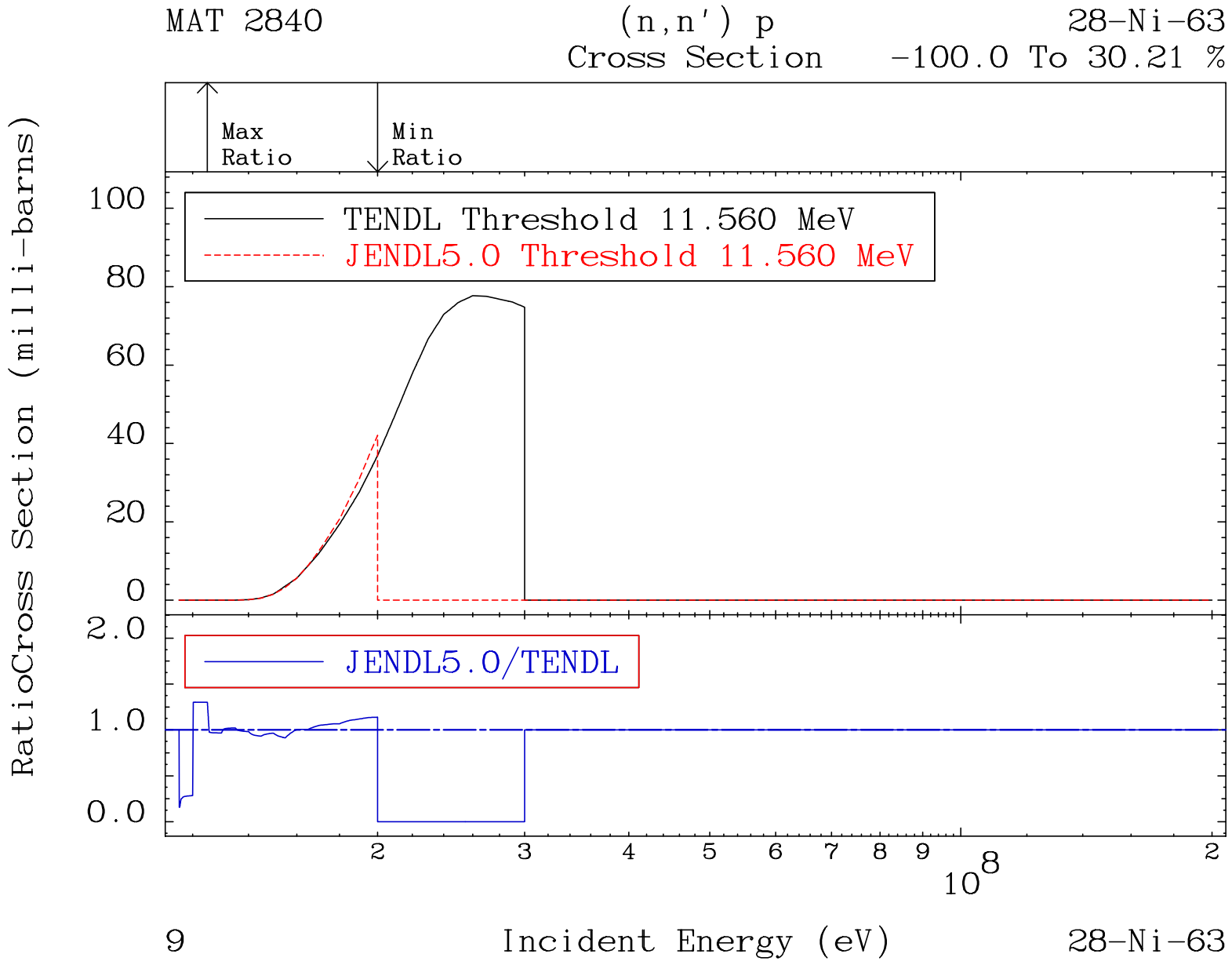

MAT 2840
(n,remainder)
28-Ni-63
Cross Section 0.586 To 9.178 %
Min Ratio
Max Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
1.10
1.05
1.00
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
28-Ni-63

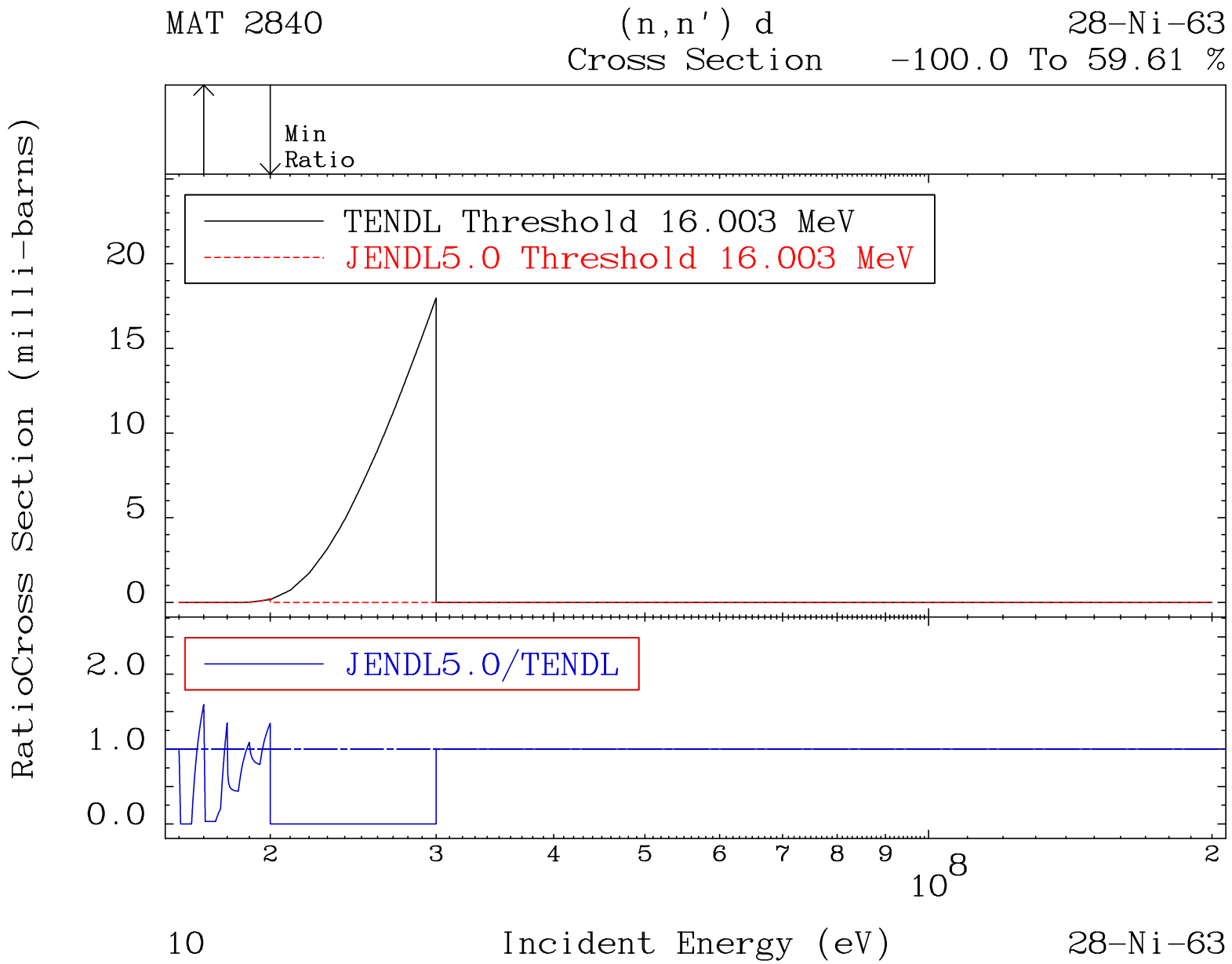

MAT 2840
(n,2n)
Cross Section
28-Ni-63
-100.0 To 293.2 %
Max
Ratio
TENDL Threshold 6.9474 MeV
JENDL5.0 Threshold 6.9474 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.2
0.8
0.4
0.0
6
4
2
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
5
28-Ni-63

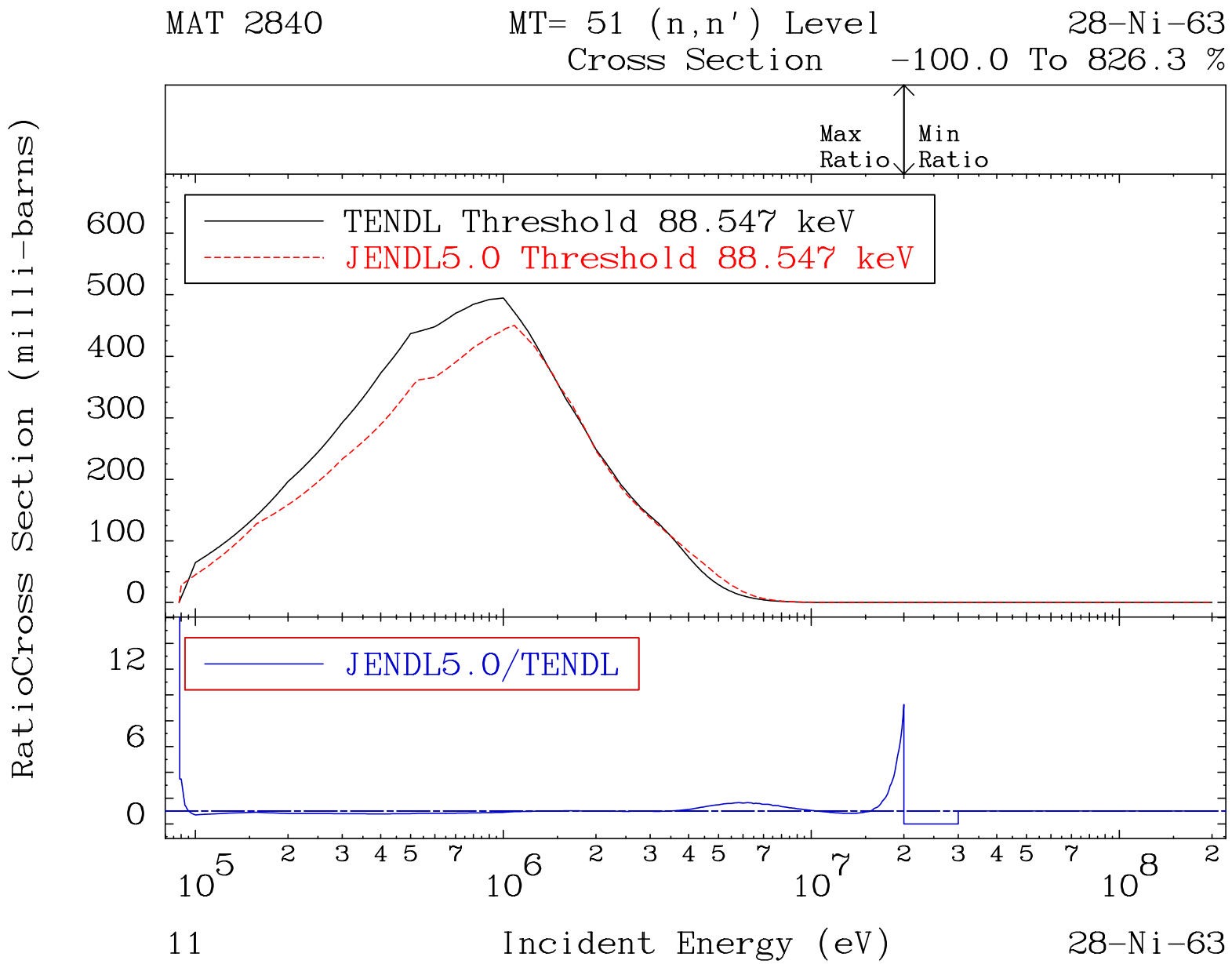

MAT 2840
(n,3n)
28-Ni-63
Cross Section
-100.0 To 11.22 %
Max
Ratio
500
400
300
200
100
0
TENDL Threshold 17.713 MeV
JENDL5.0 Threshold 17.713 MeV
1.2
0.6
0.0
JENDL5.0/TENDL
2
3
4
5
6
7
8
9
10^8
2
RatioCross Section (milli-barns)
6
Incident Energy (eV)
28-Ni-63

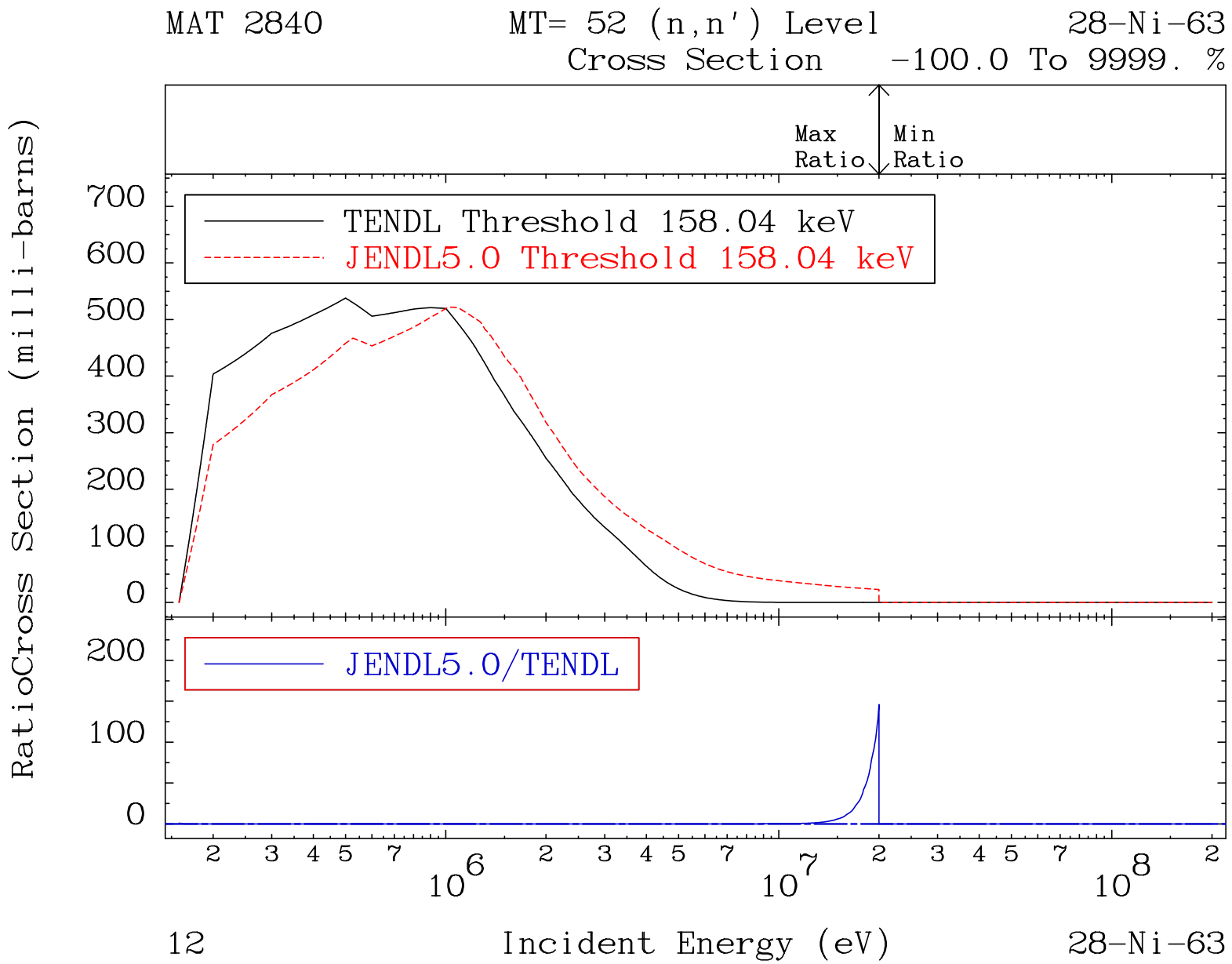

MAT 2840
(n,n') α
Cross Section
28-Ni-63
-100.0 To 76.57 %
Min Ratio
Max Ratio
TENDL Threshold 7.3894 MeV
JENDL5.0 Threshold 7.3894 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
2.0
1.0
0.0
8
10^7
2
3
4
5
6
7
8
10^8
2
7
Incident Energy (eV)
28-Ni-63

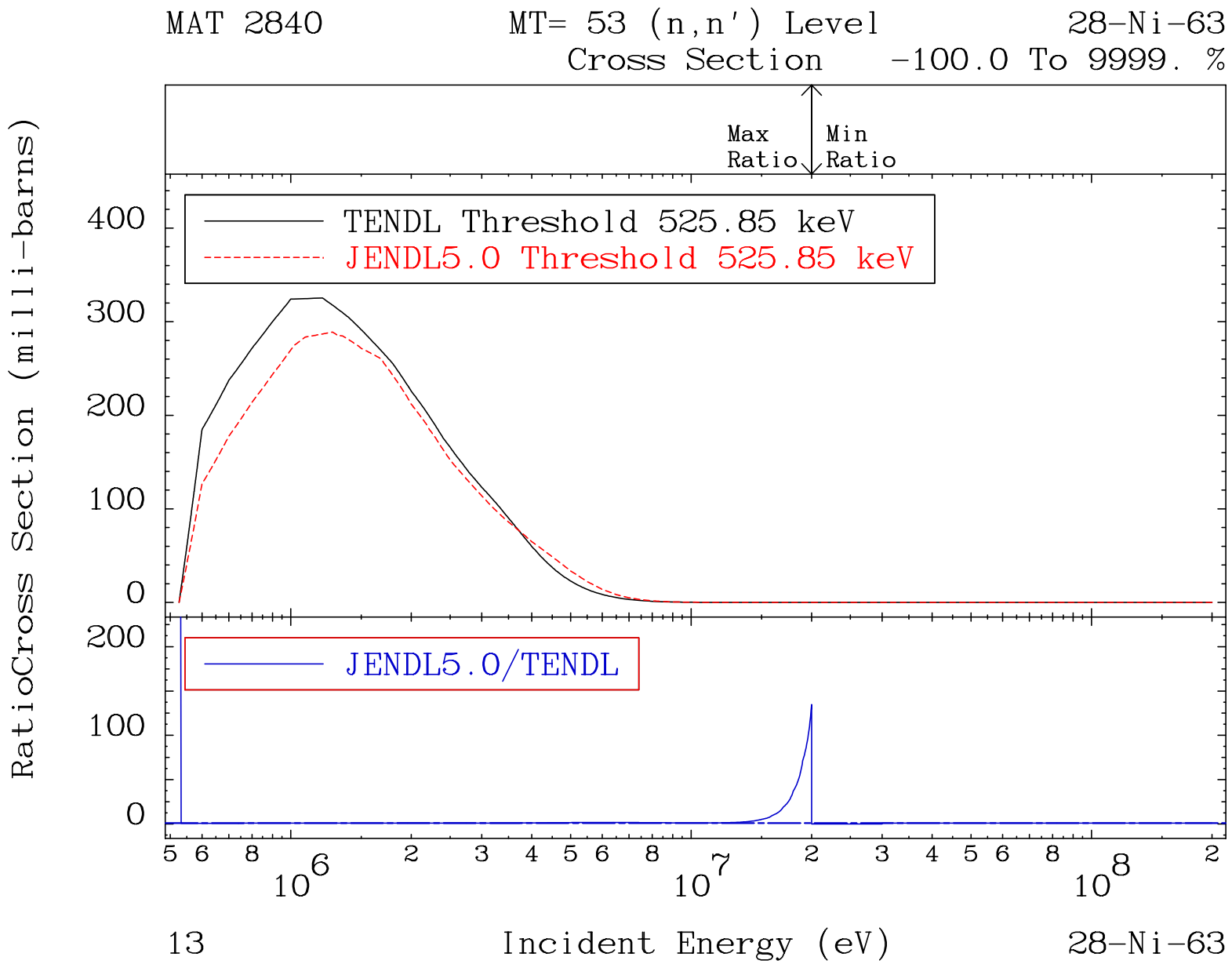

MAT 2840
(n,2n) α
Cross Section
28-Ni-63
-100.0 To 173.1 %
Min Ratio
Max Ratio
TENDL Threshold 14.076 MeV
JENDL5.0 Threshold 14.076 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
28-Ni-63

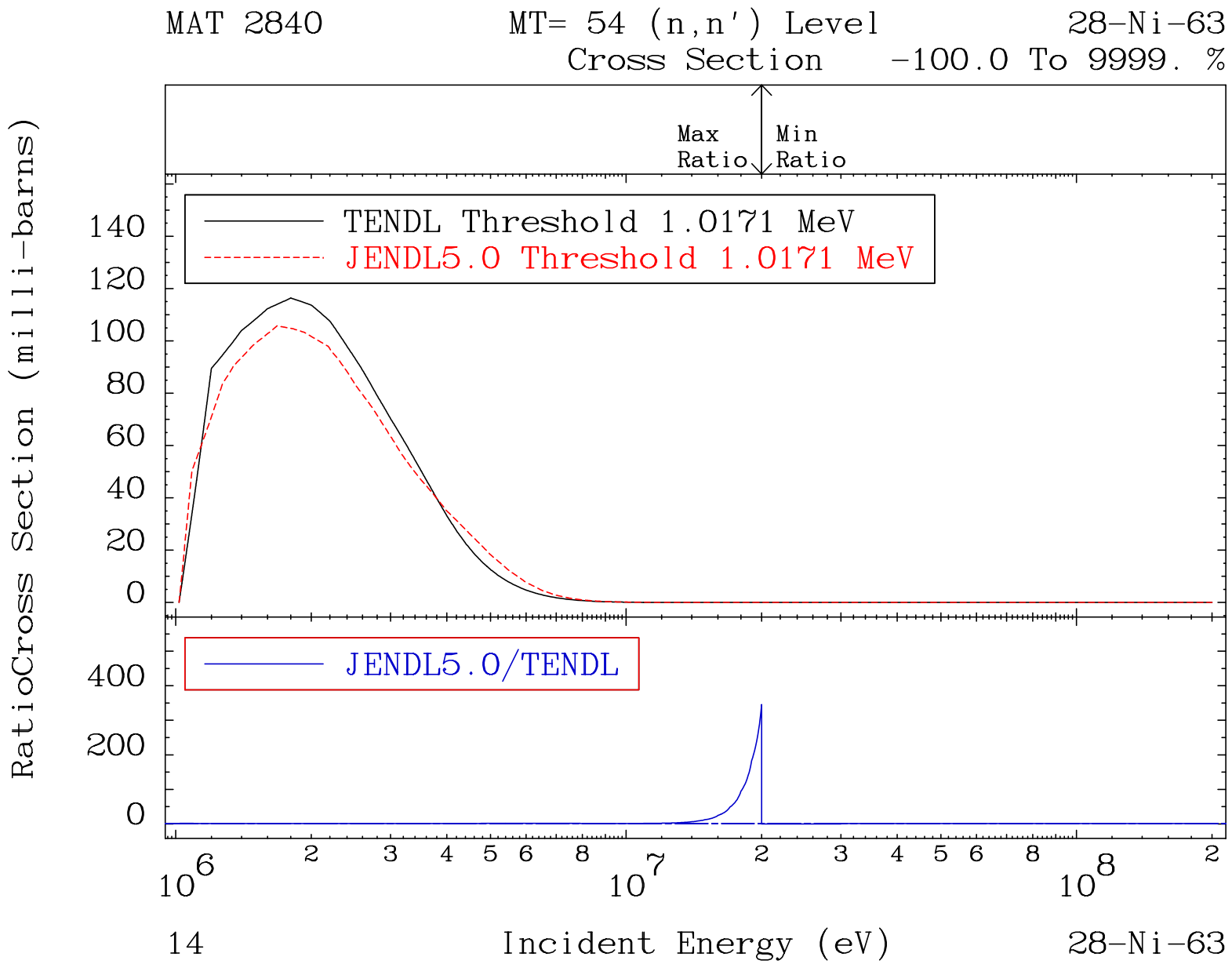

MAT 2840
(n,n') p
Cross Section
28-Ni-63
-100.0 To 30.21 %
Max Ratio
Min Ratio
TENDL Threshold 11.560 MeV
JENDL5.0 Threshold 11.560 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
28-Ni-63

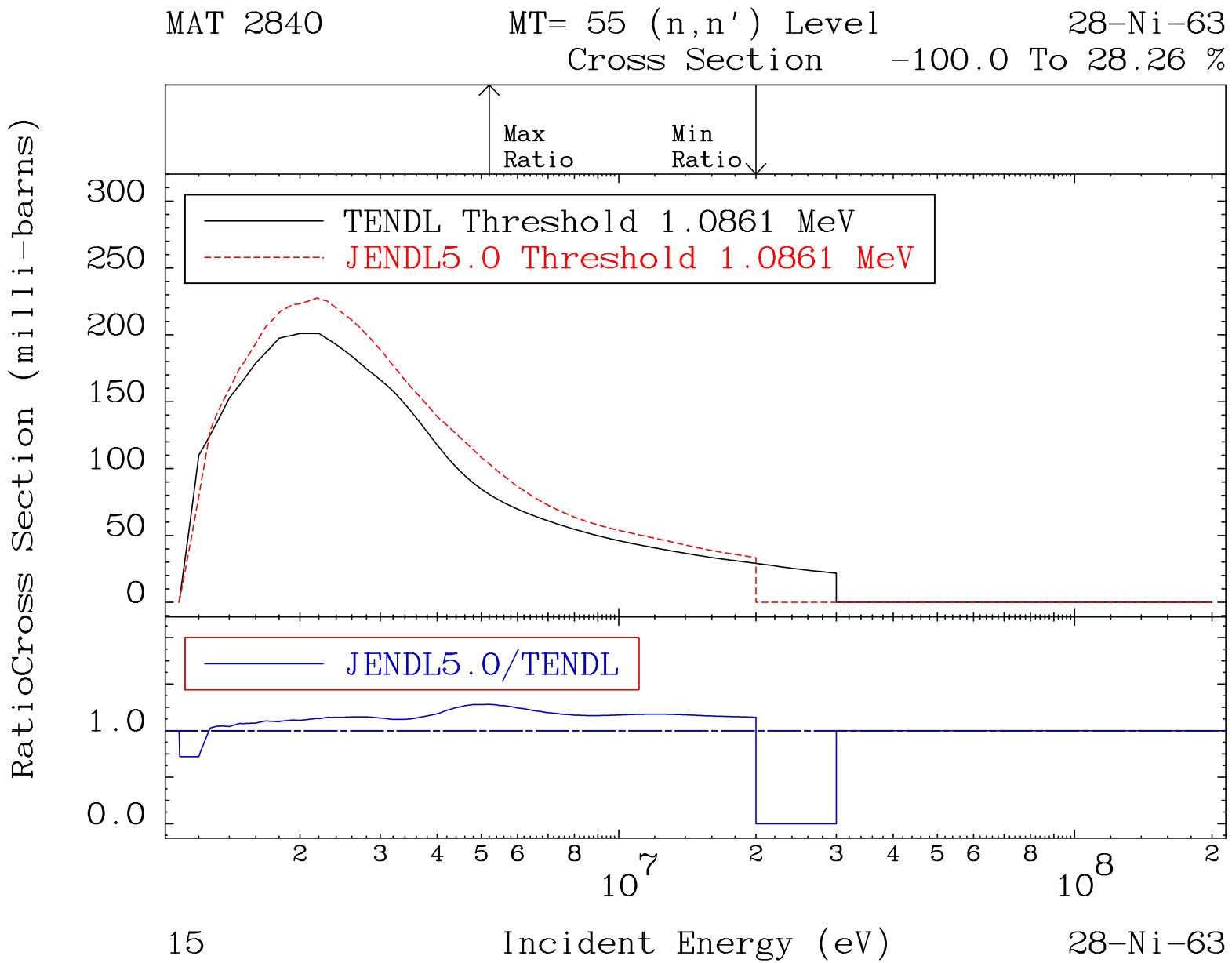

MAT 2840
(n,n') d
Cross Section
28-Ni-63
-100.0 To 59.61 %
Min
Ratio
TENDL Threshold 16.003 MeV
JENDL5.0 Threshold 16.003 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
28-Ni-63

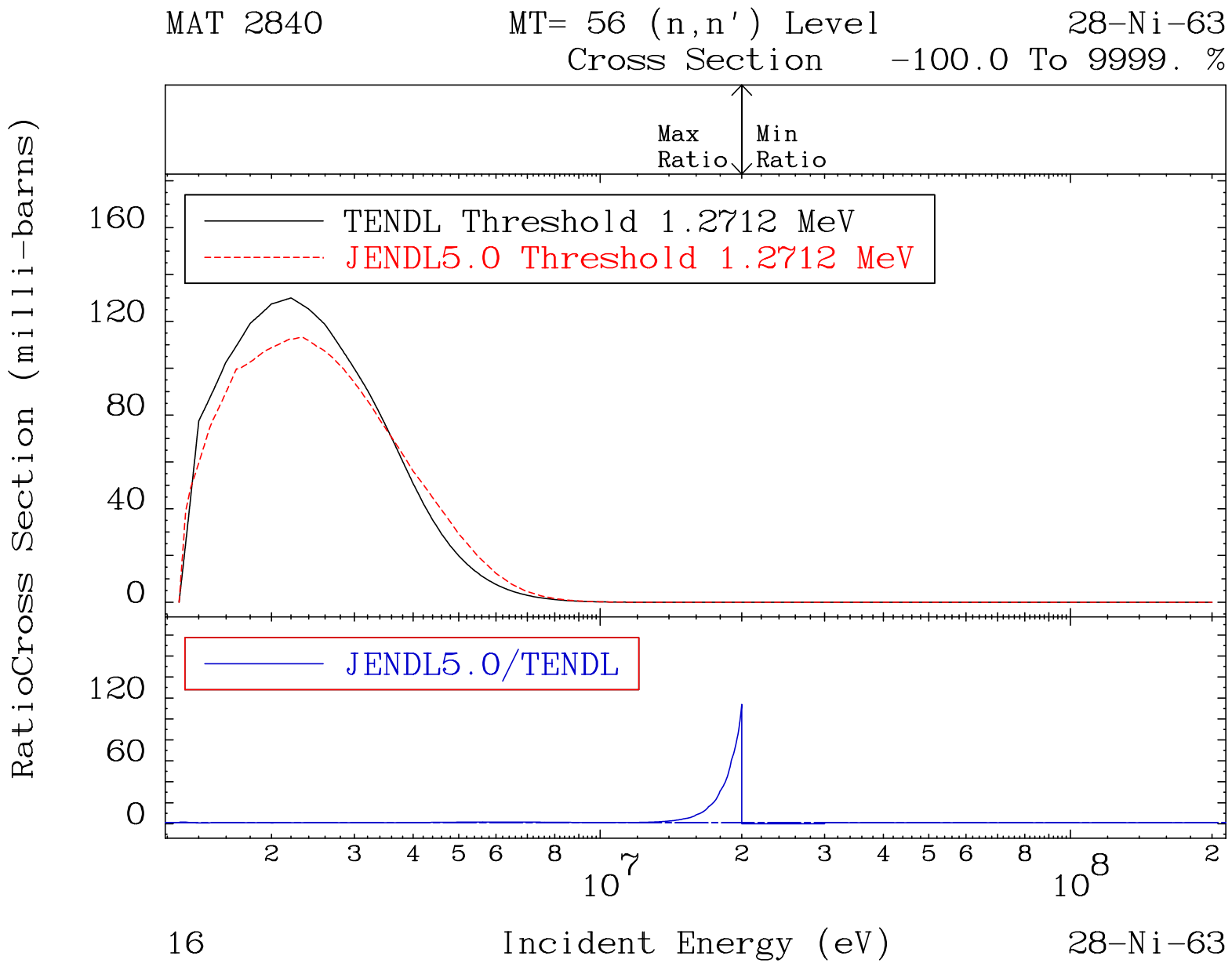

MAT 2840
MT= 51 (n,n') Level
28-Ni-63
Cross Section -100.0 To 826.3 %
Max Ratio
Min Ratio
TENDL Threshold 88.547 keV
JENDL5.0 Threshold 88.547 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
12
6
0
10^5
10^6
10^7
10^8
11
Incident Energy (eV)
28-Ni-63

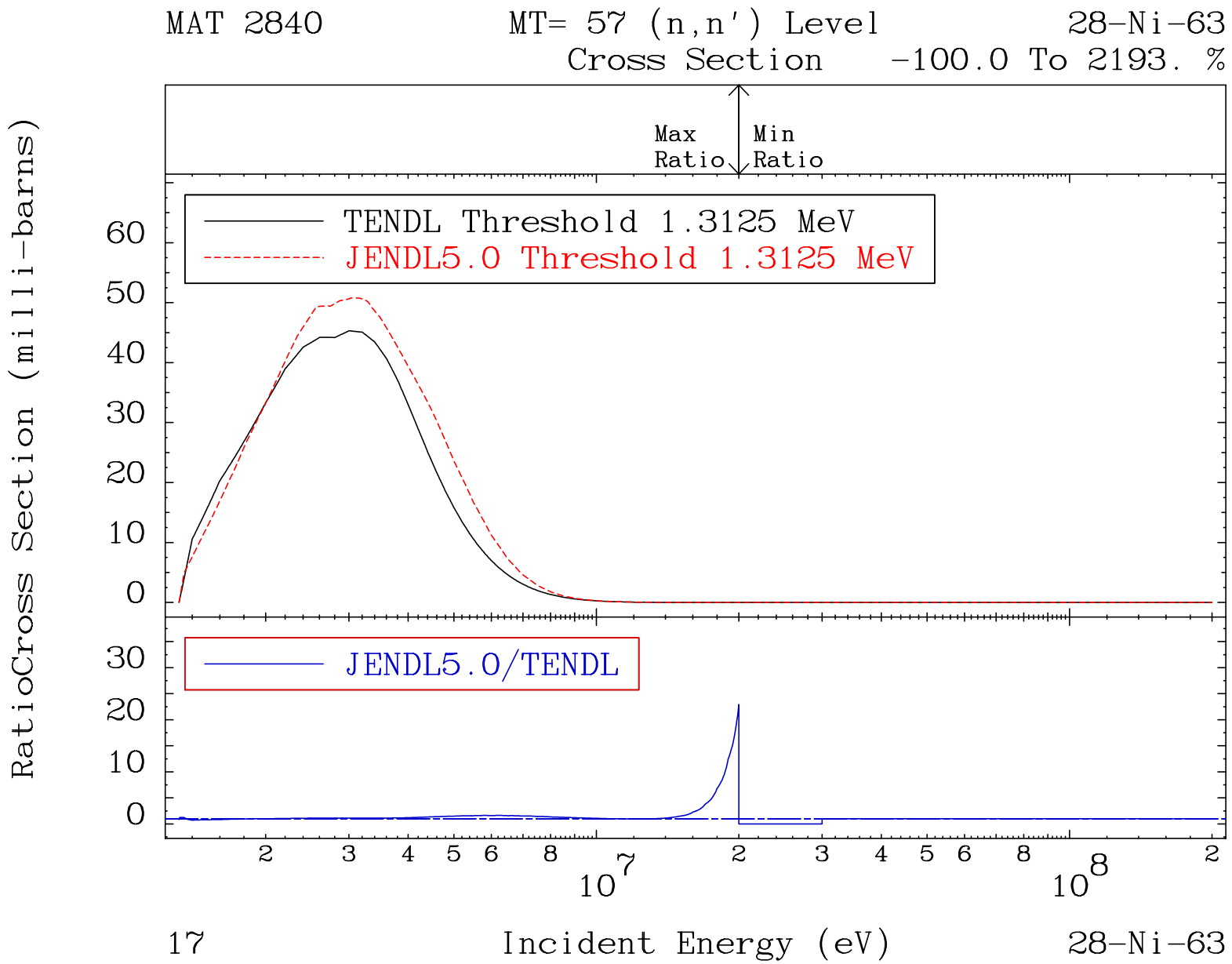

MAT 2840
MT= 52 (n,n') Level
28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 158.04 keV
JENDL5.0 Threshold 158.04 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
700
600
500
400
300
200
100
0
200
100
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
12
Incident Energy (eV)
28-Ni-63

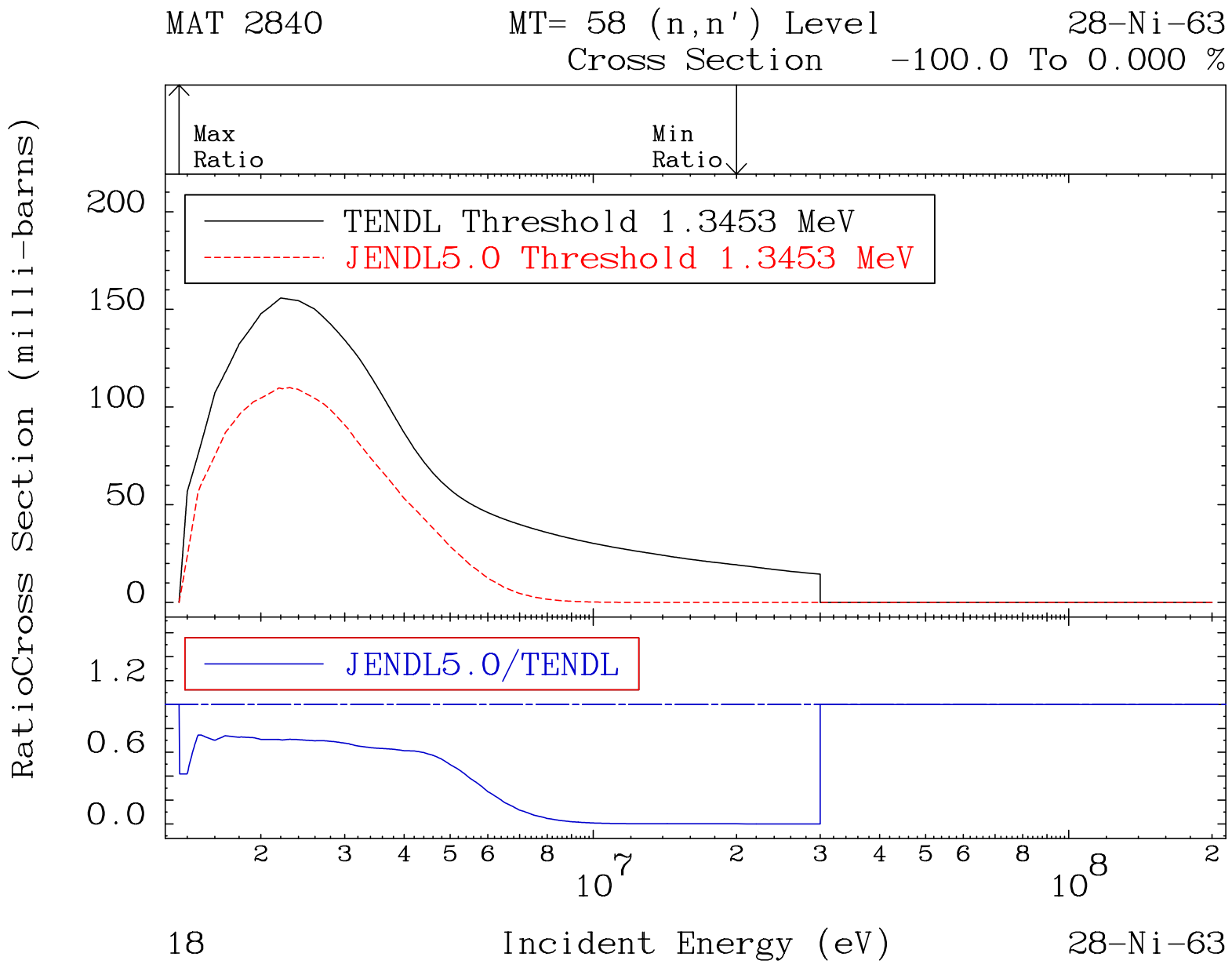

MAT 2840
MT= 53 (n,n') Level
28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 525.85 keV
JENDL5.0 Threshold 525.85 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
200
100
0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
13
Incident Energy (eV)
28-Ni-63

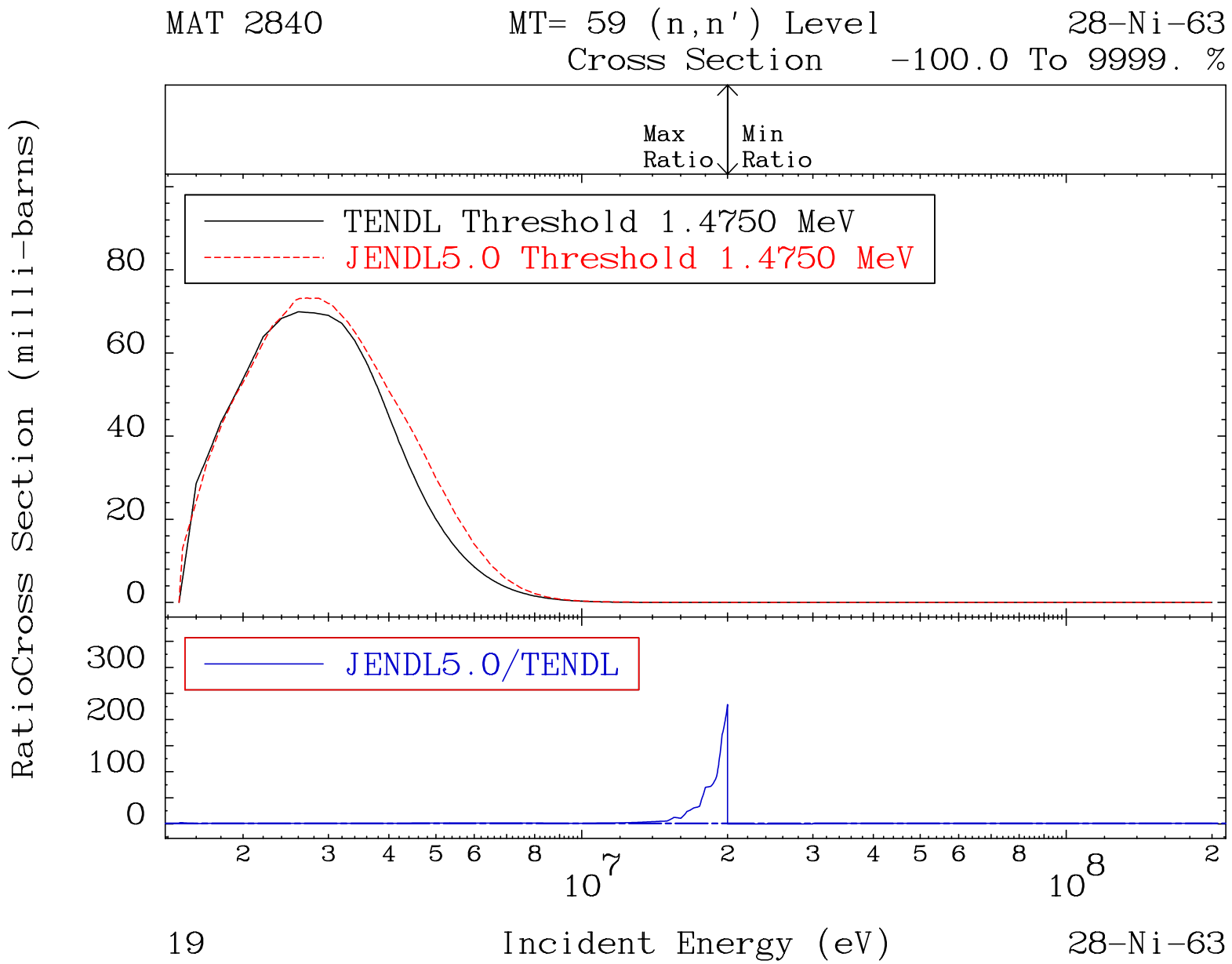

MAT 2840
MT= 54 (n,n') Level
28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.0171 MeV
JENDL5.0 Threshold 1.0171 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
400
200
0
10^6
10^7
10^8
2 3 4 5 6 8
14
Incident Energy (eV)
28-Ni-63

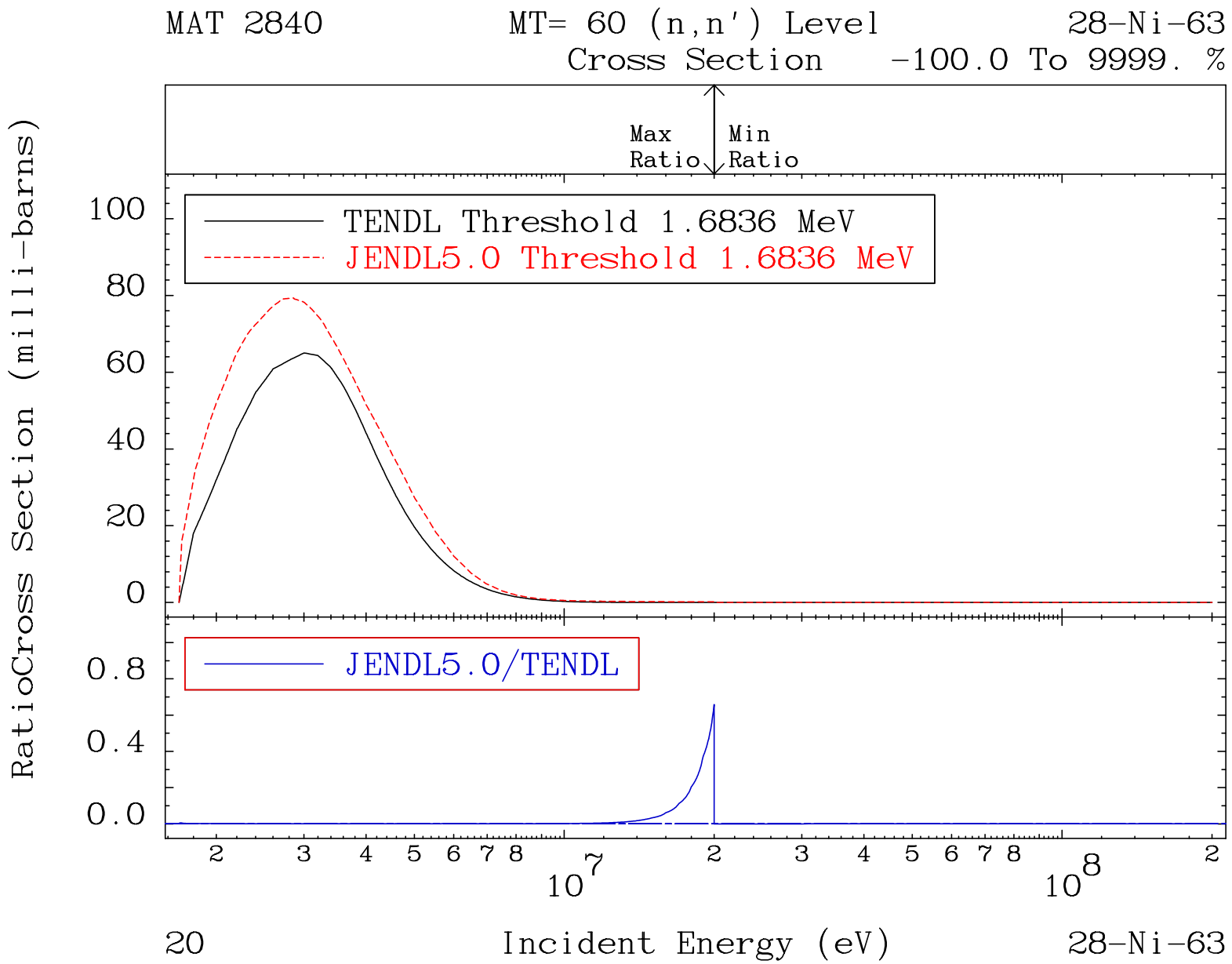

MAT 2840
MT= 55 (n,n') Level
28-Ni-63
Cross Section -100.0 To 28.26 %
Max Ratio
Min Ratio
TENDL Threshold 1.0861 MeV
JENDL5.0 Threshold 1.0861 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
1.0
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
15
Incident Energy (eV)
28-Ni-63

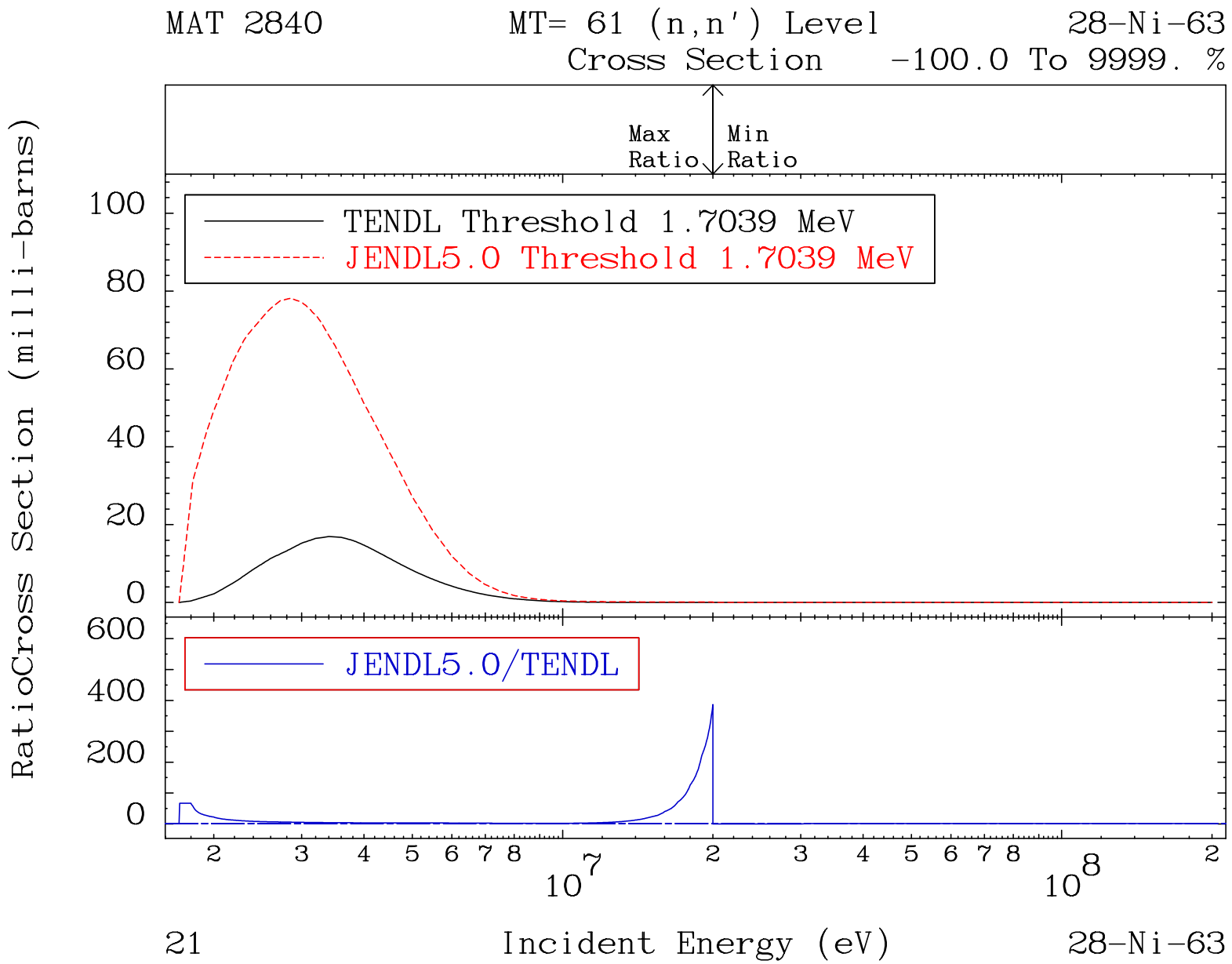

MAT 2840
MT= 56 (n,n') Level
28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.2712 MeV
JENDL5.0 Threshold 1.2712 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
120
60
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
16
Incident Energy (eV)
28-Ni-63

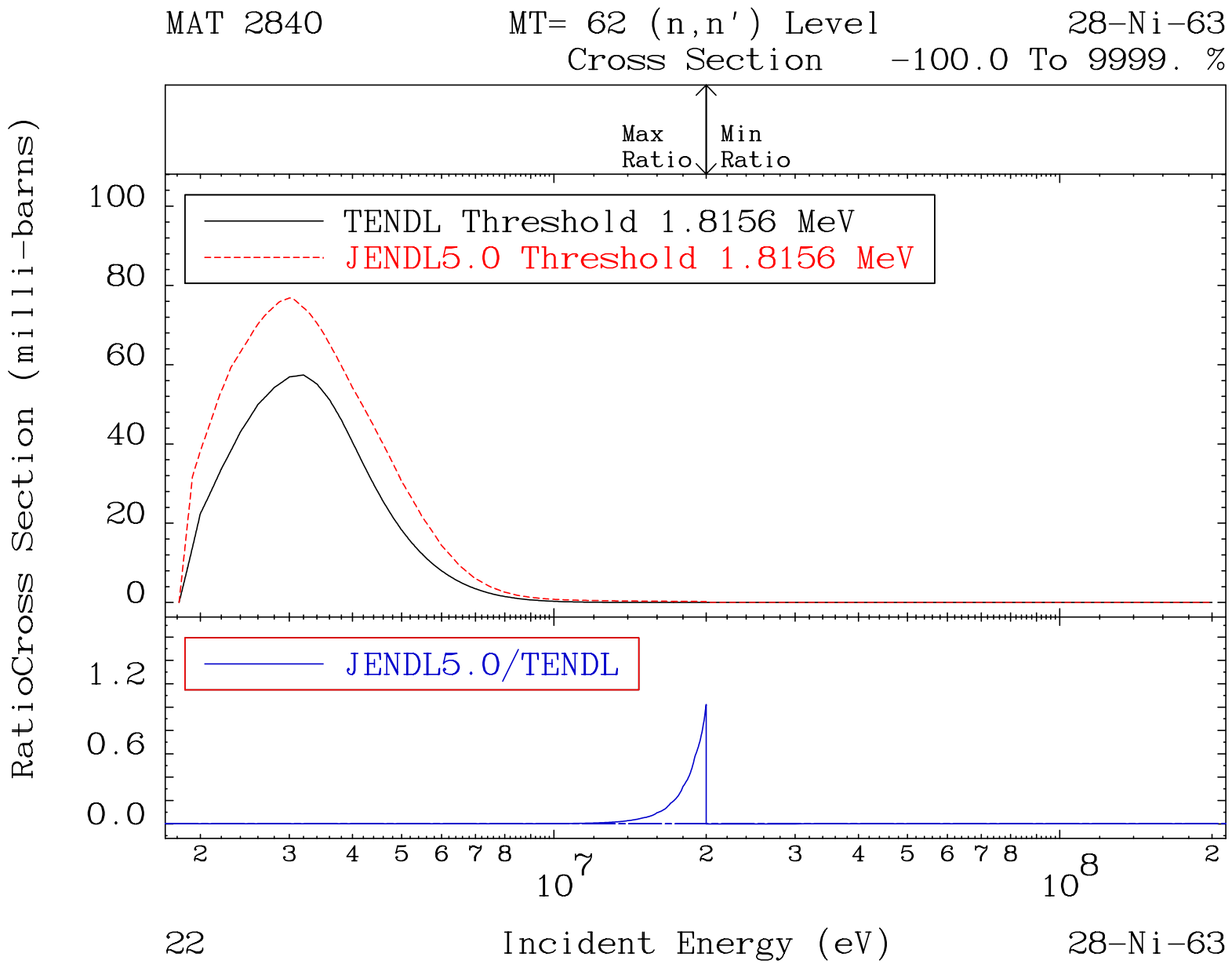

MAT 2840
MT= 57 (n,n') Level
28-Ni-63
Cross Section -100.0 To 2193. %
Max Ratio
Min Ratio
TENDL Threshold 1.3125 MeV
JENDL5.0 Threshold 1.3125 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
30
20
10
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
17
Incident Energy (eV)
28-Ni-63

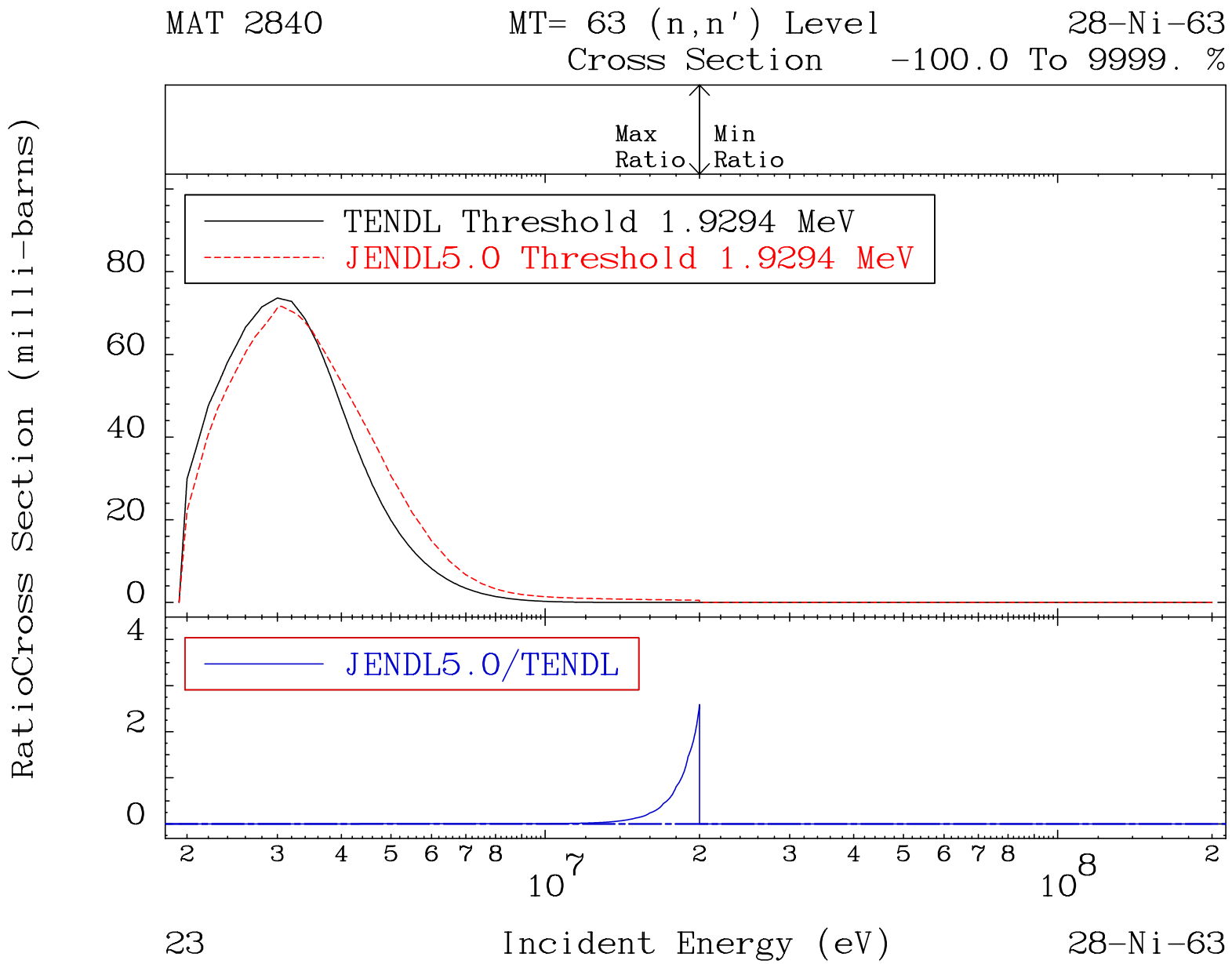

MAT 2840
MT= 58 (n,n') Level
28-Ni-63
Cross Section -100.0 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 1.3453 MeV
JENDL5.0 Threshold 1.3453 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.2
0.6
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
18
Incident Energy (eV)
28-Ni-63

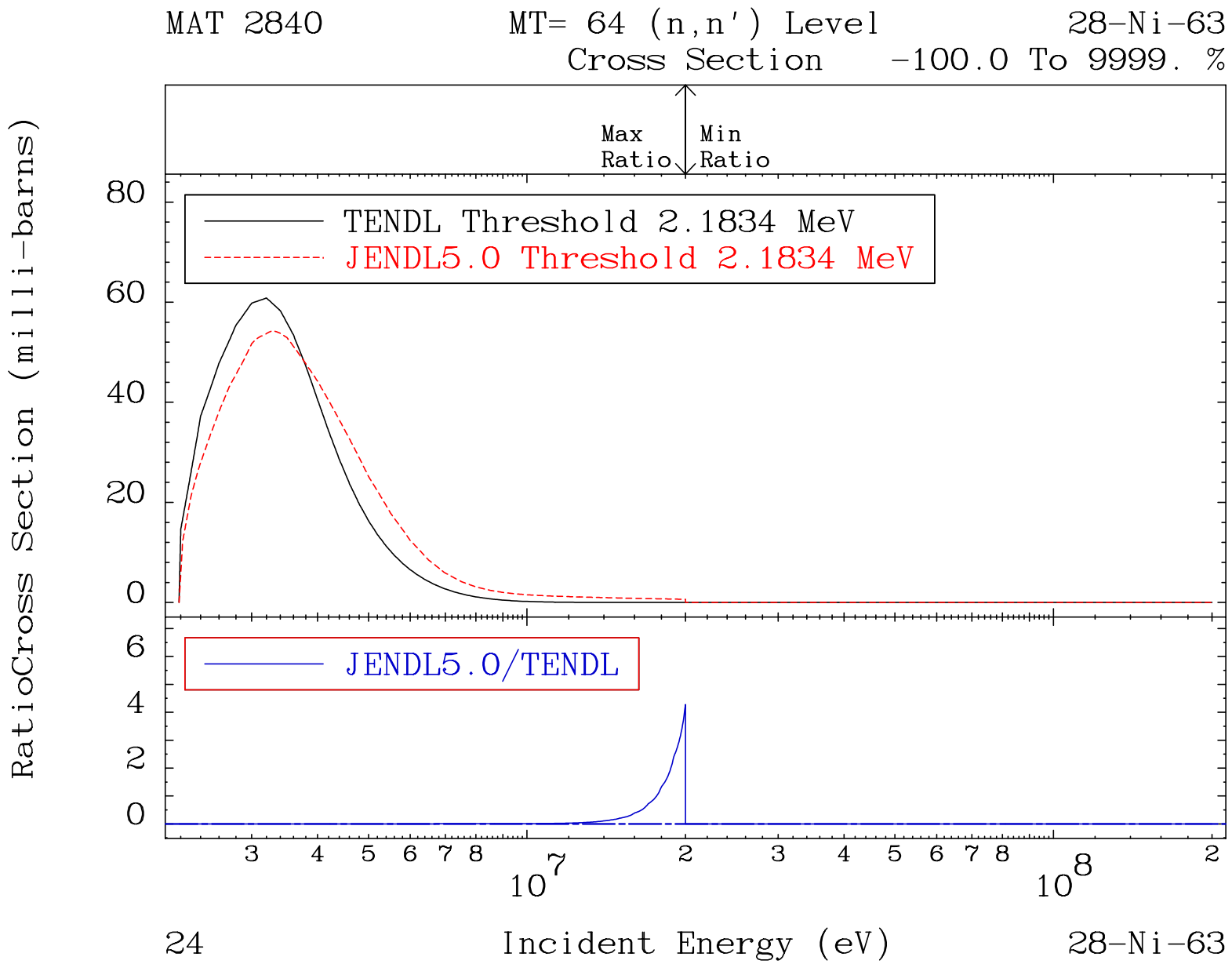

MAT 2840
MT= 59 (n,n') Level
28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.4750 MeV
JENDL5.0 Threshold 1.4750 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
300
200
100
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
19
Incident Energy (eV)
28-Ni-63

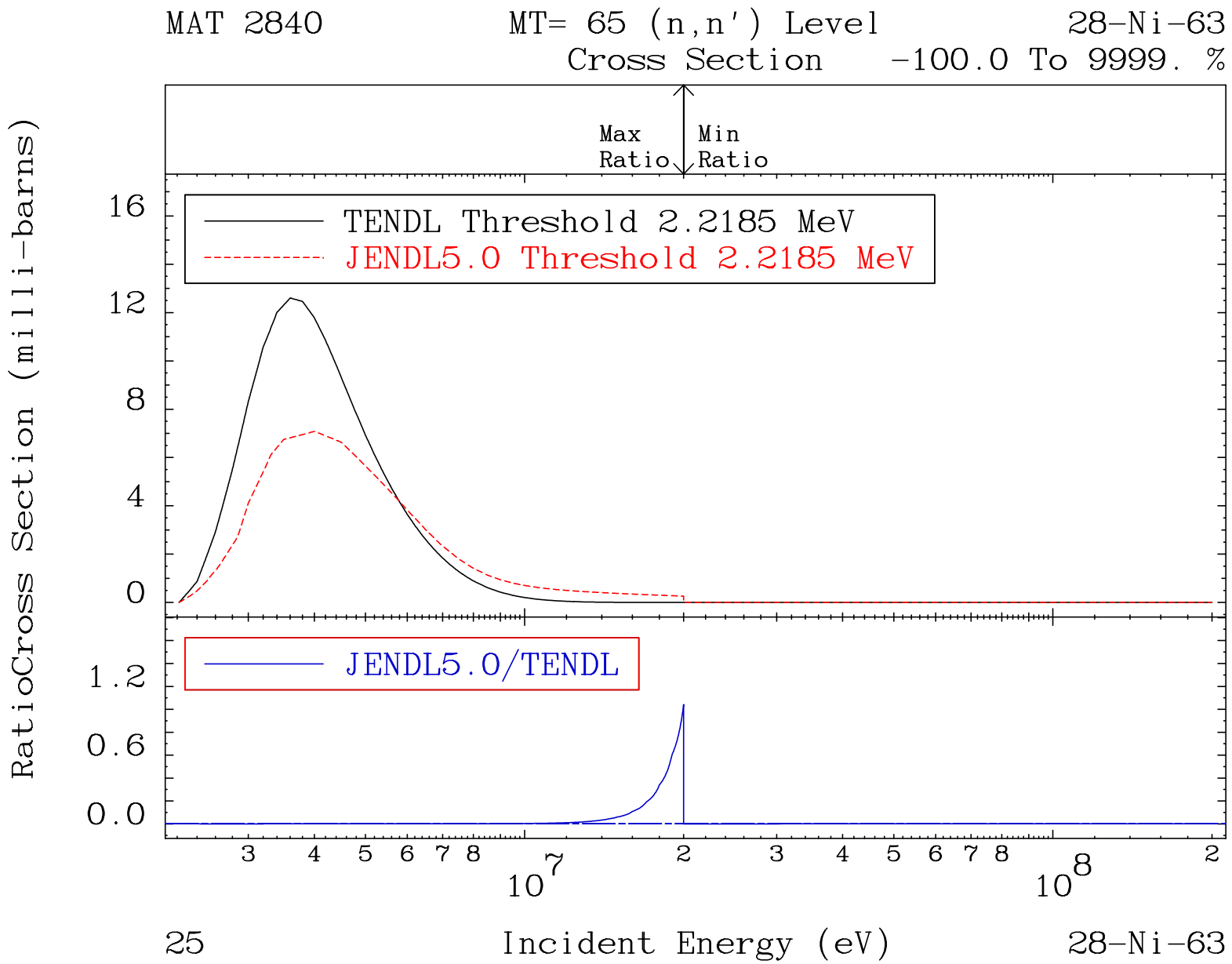

MAT 2840
MT= 60 (n,n') Level
28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.6836 MeV
JENDL5.0 Threshold 1.6836 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
0.8
0.4
0.0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
28-Ni-63

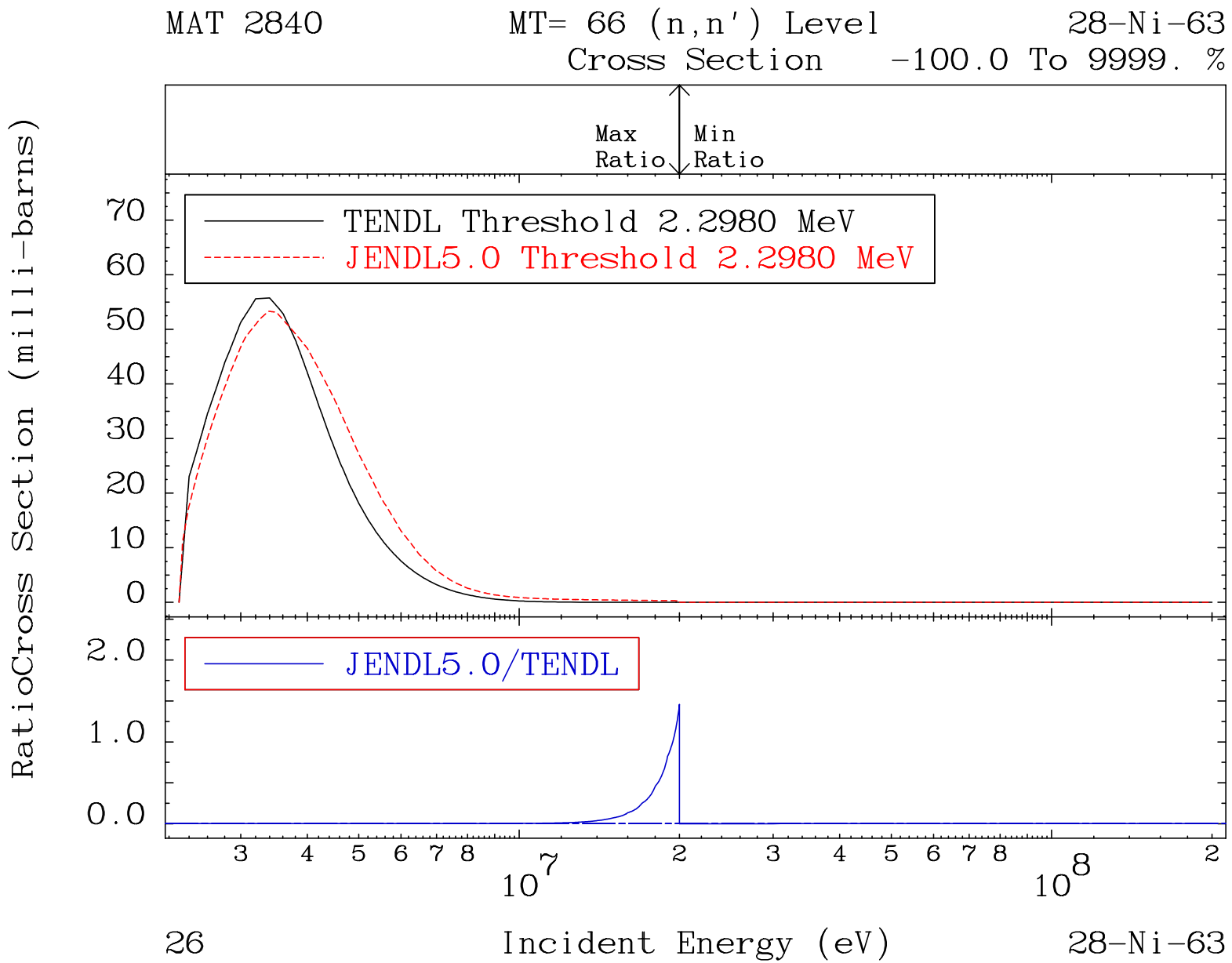

MAT 2840
MT= 61 (n,n') Level
28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.7039 MeV
JENDL5.0 Threshold 1.7039 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
600
400
200
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
28-Ni-63

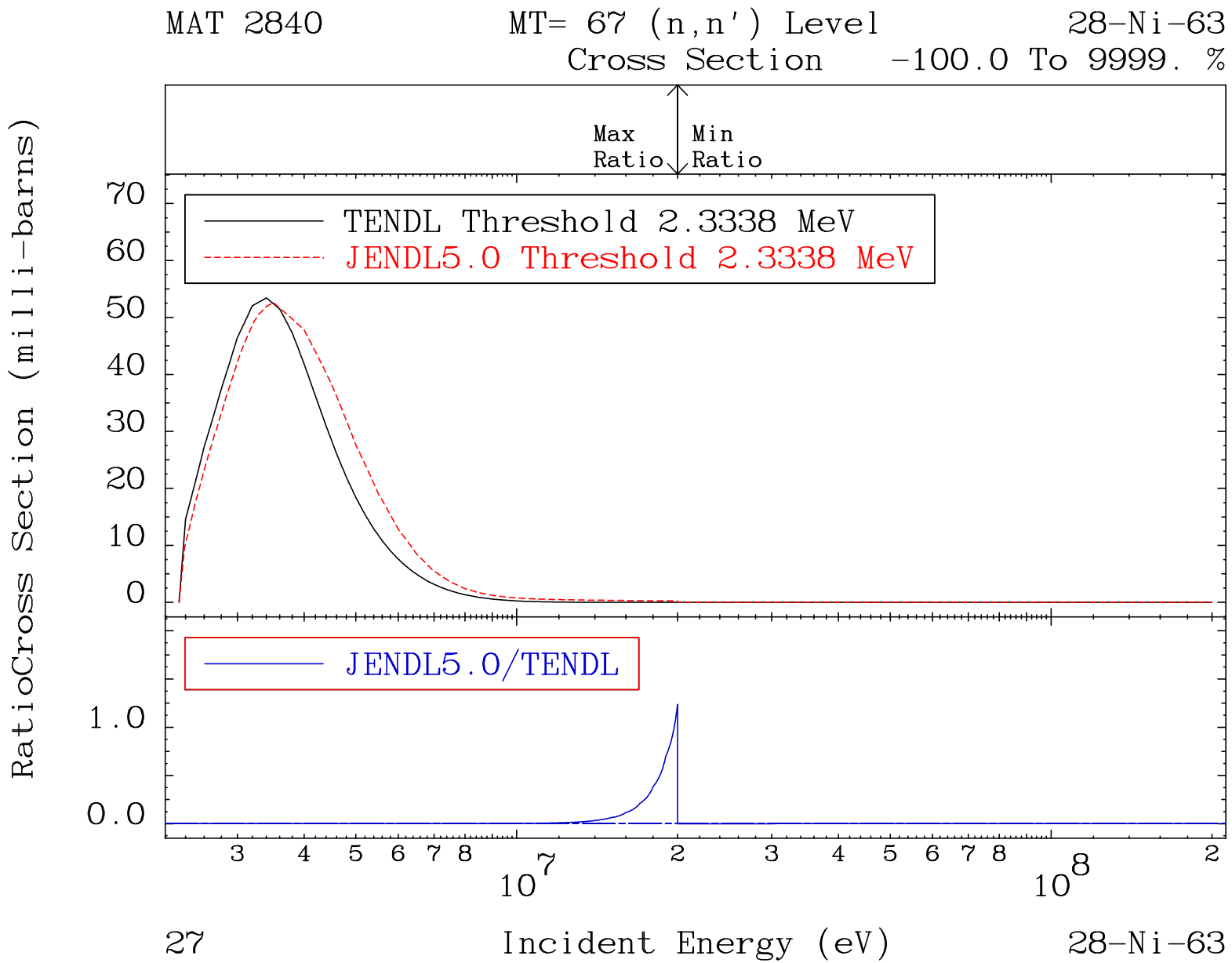

MAT 2840
MT= 62 (n,n') Level
28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.8156 MeV
JENDL5.0 Threshold 1.8156 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
28-Ni-63

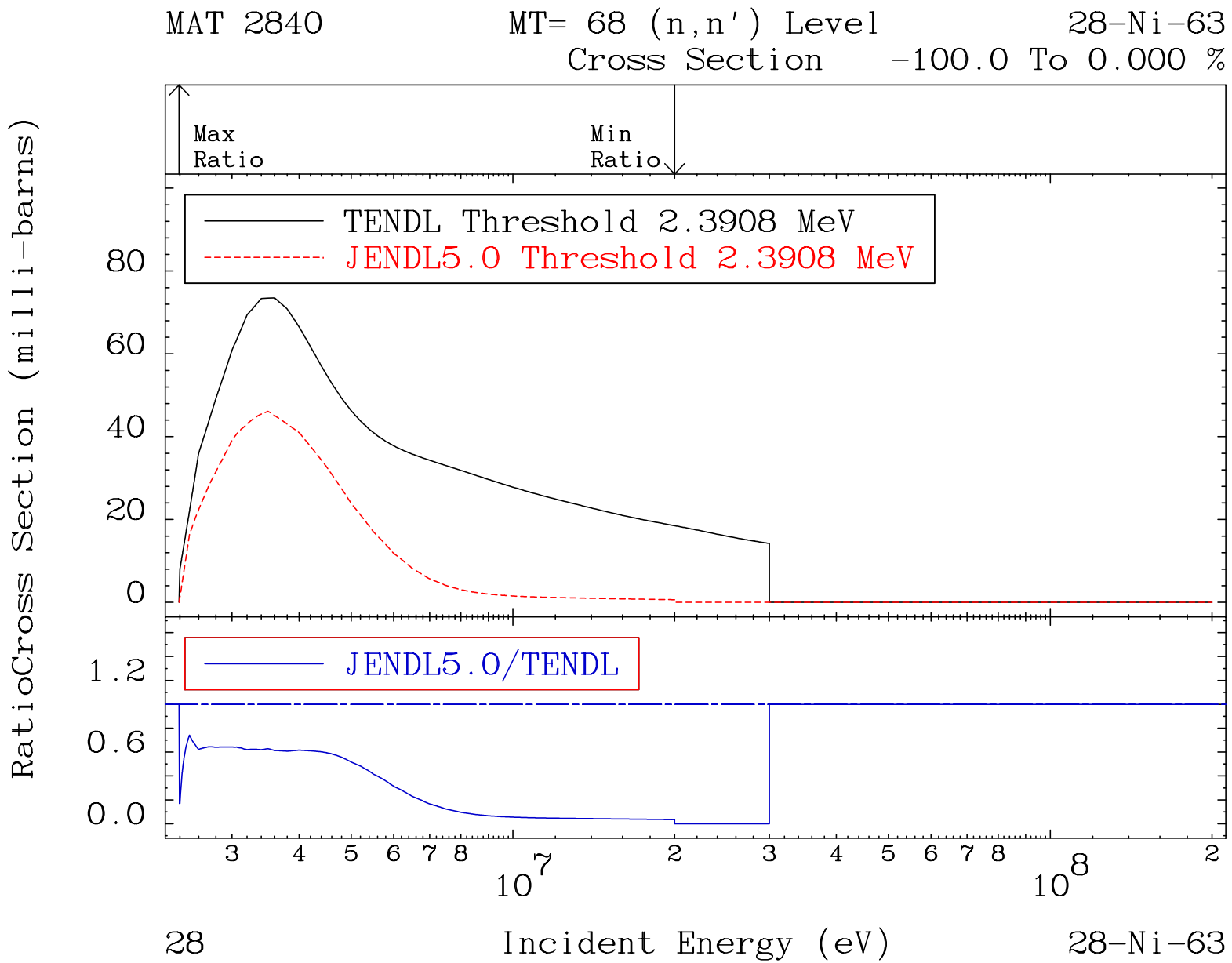

MAT 2840
MT= 63 (n,n') Level
28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.9294 MeV
JENDL5.0 Threshold 1.9294 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
23
28-Ni-63

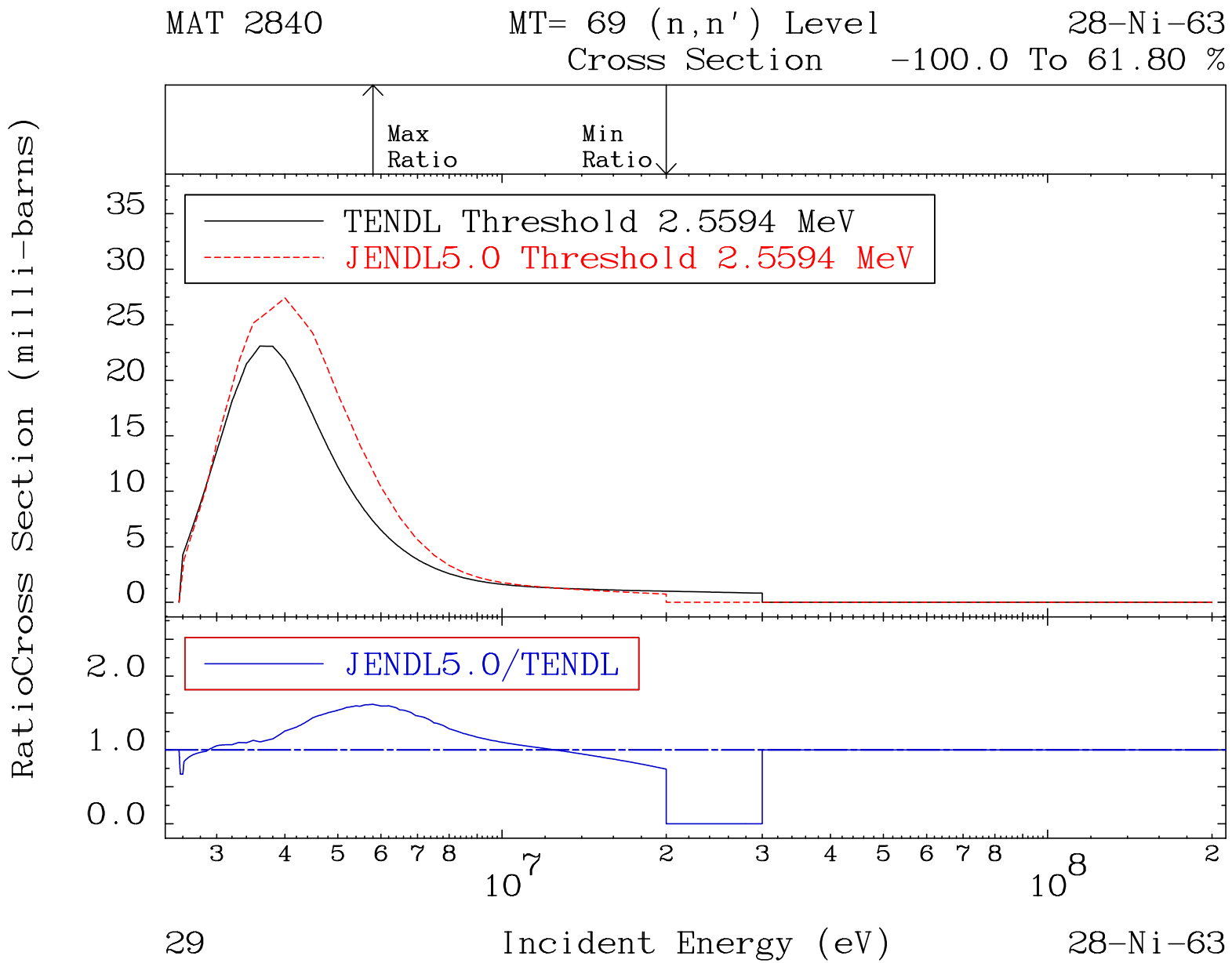

MAT 2840
MT= 64 (n,n') Level
28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.1834 MeV
JENDL5.0 Threshold 2.1834 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
6
4
2
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
28-Ni-63

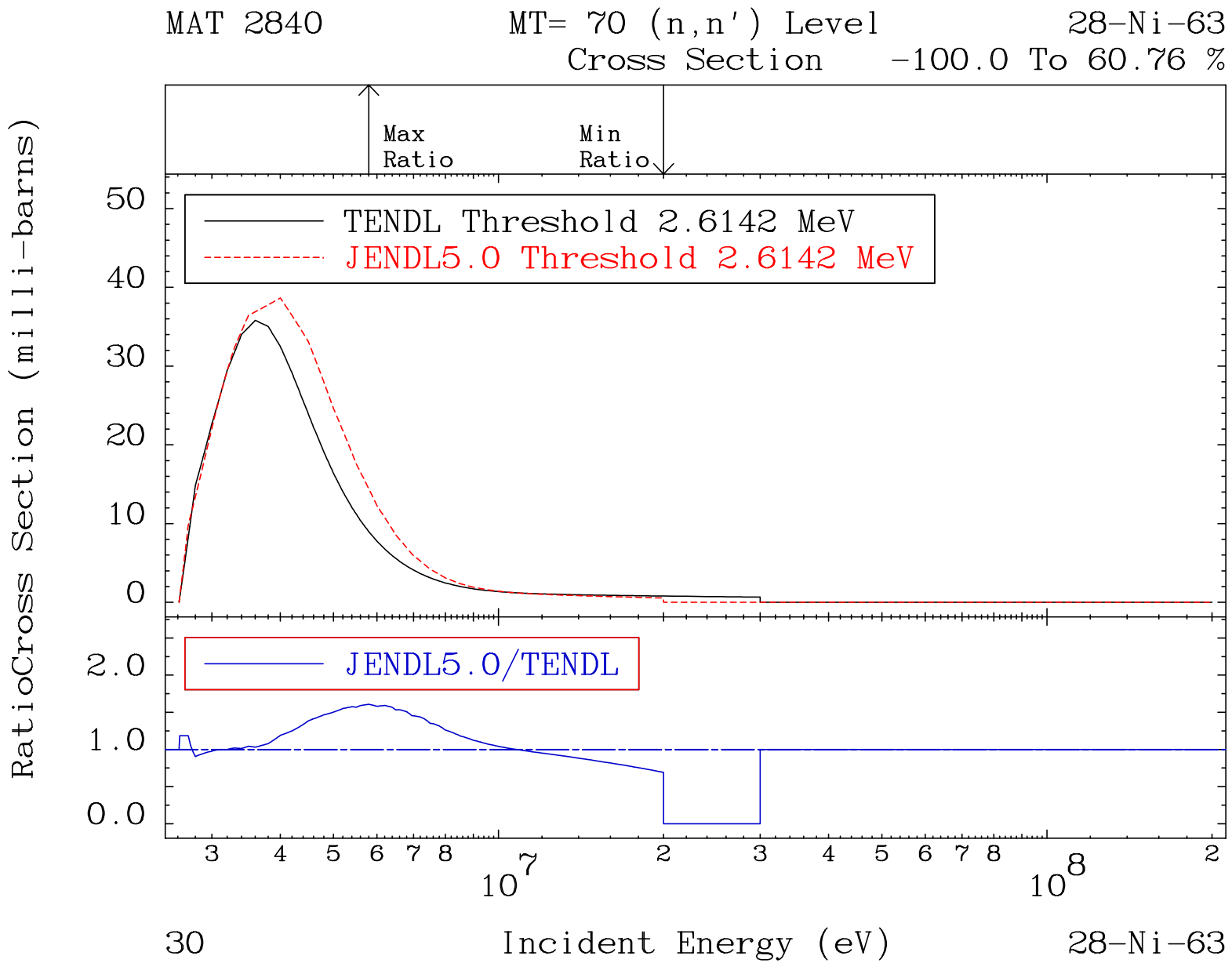

MAT 2840
MT= 65 (n,n') Level
28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.2185 MeV
JENDL5.0 Threshold 2.2185 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
25
28-Ni-63

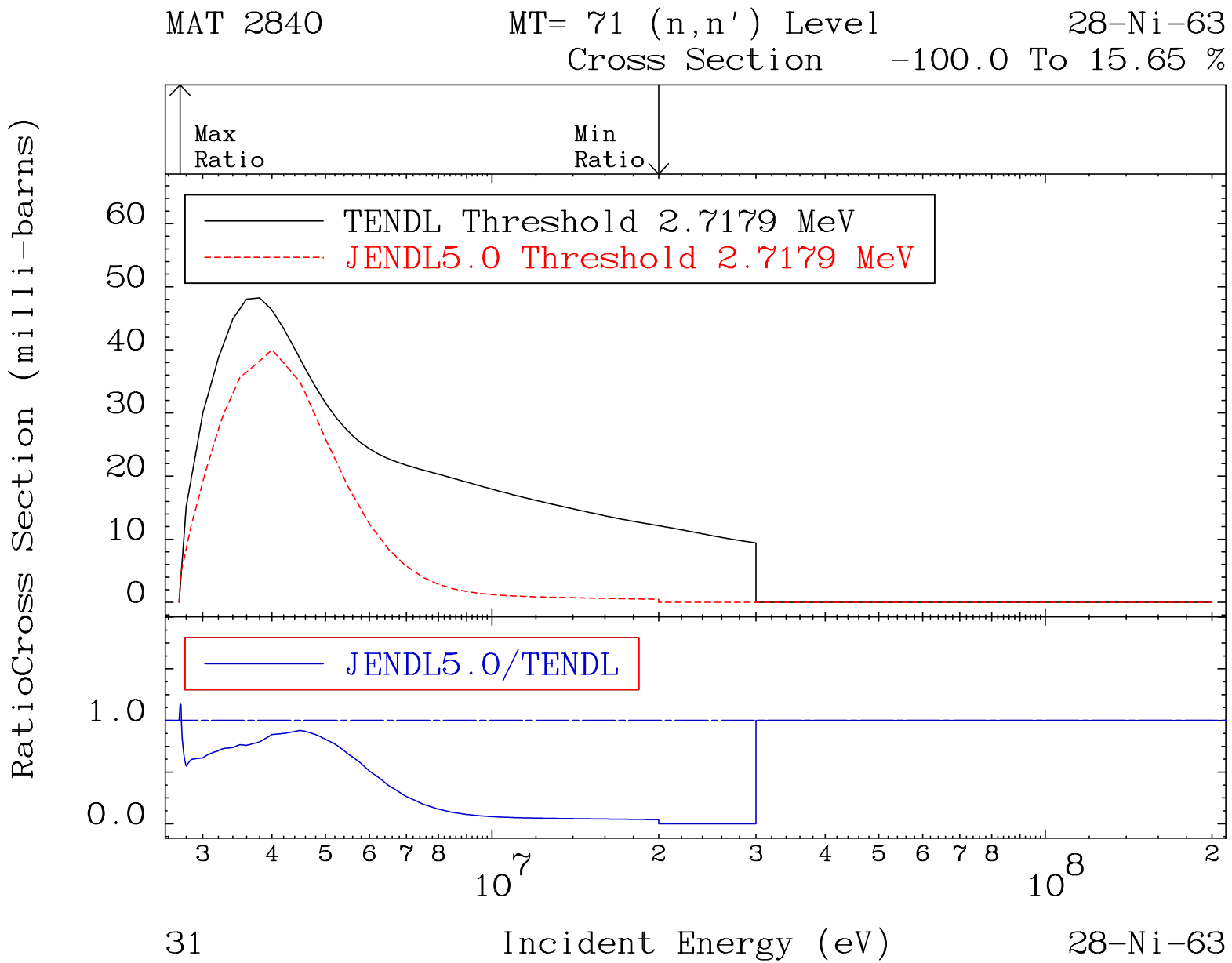

MAT 2840
MT= 66 (n,n') Level
28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.2980 MeV
JENDL5.0 Threshold 2.2980 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
28-Ni-63

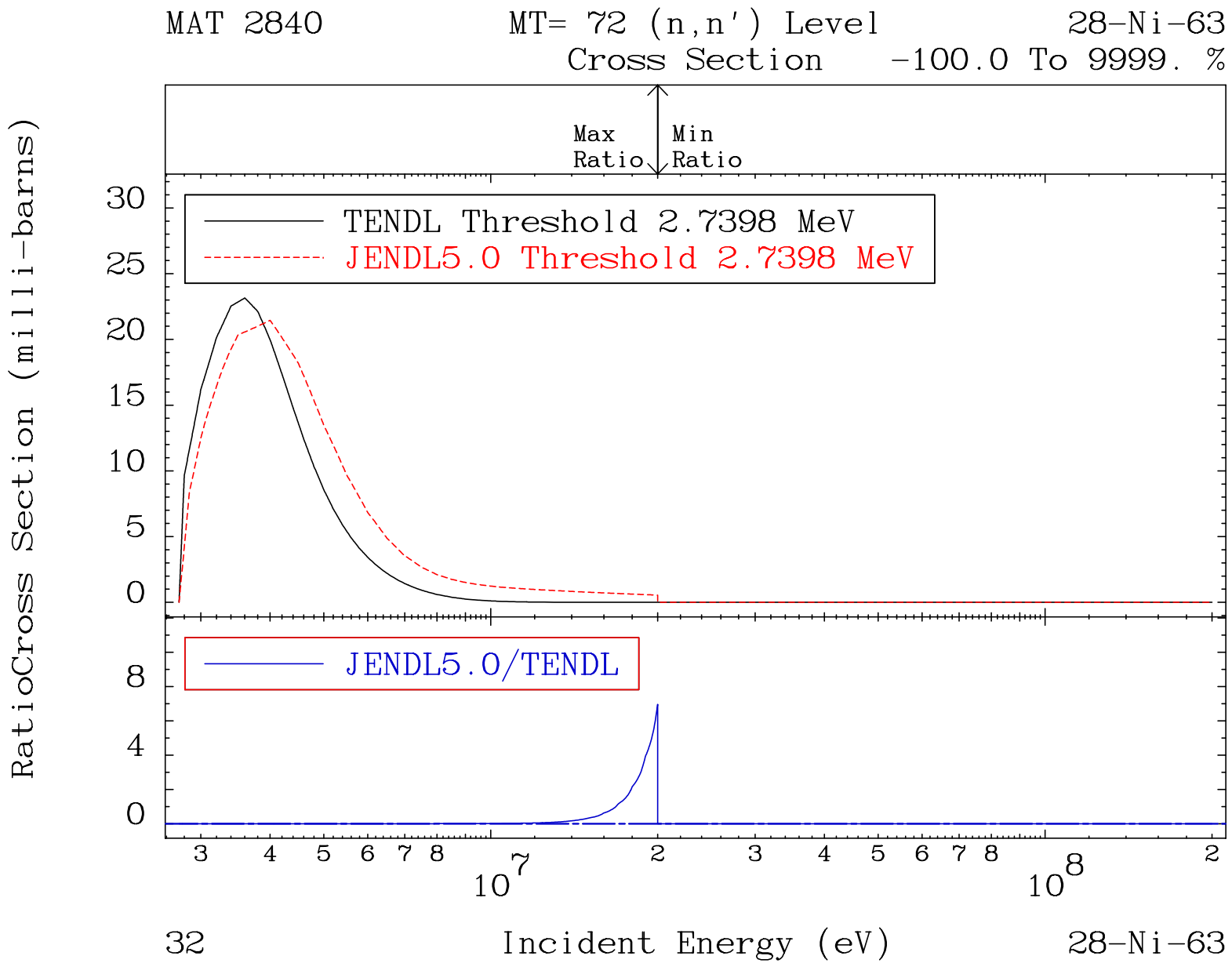

MAT 2840
MT= 67 (n,n') Level
28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.3338 MeV
JENDL5.0 Threshold 2.3338 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
28-Ni-63

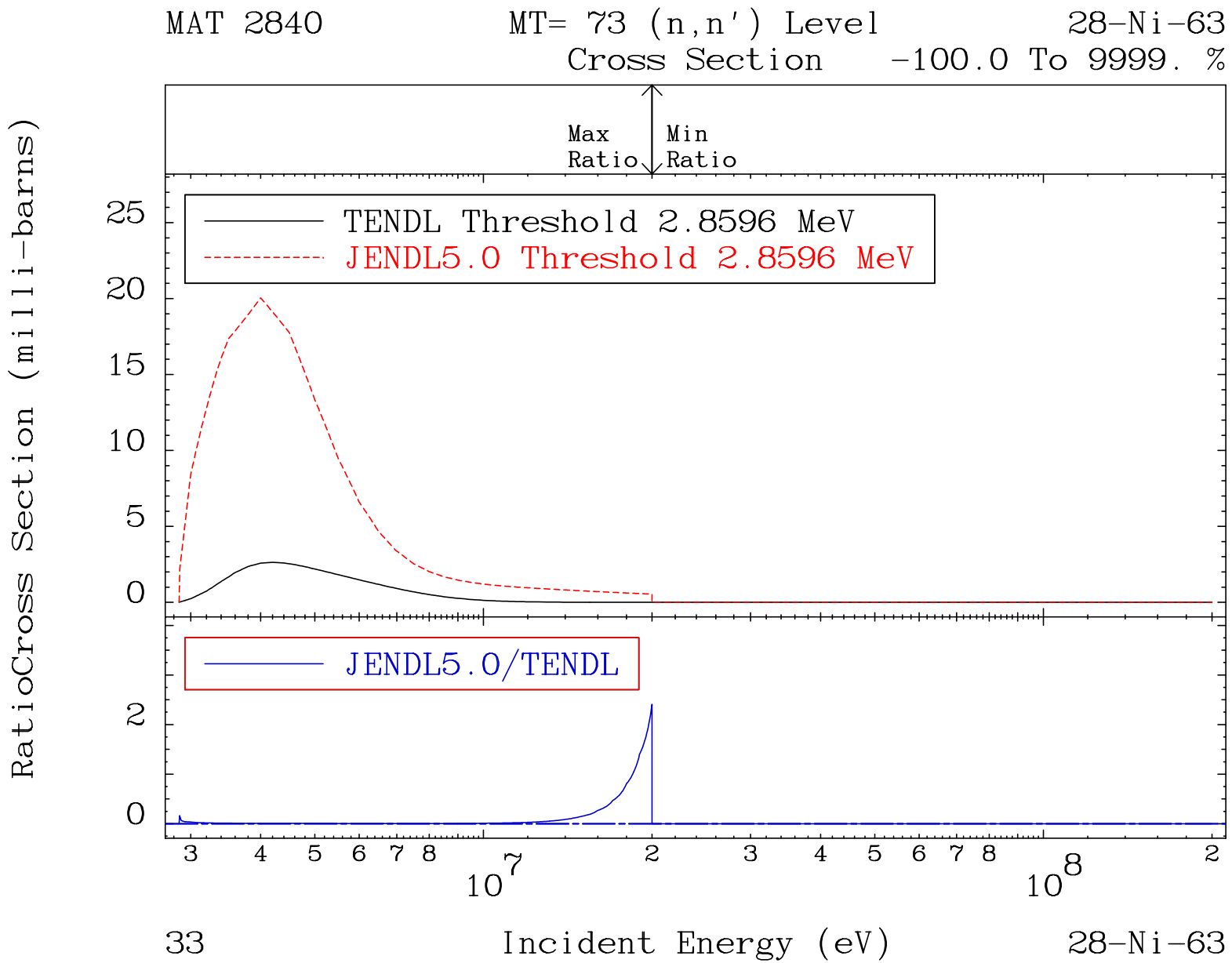

MAT 2840
MT= 68 (n,n') Level
28-Ni-63
Cross Section -100.0 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 2.3908 MeV
JENDL5.0 Threshold 2.3908 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
28
Incident Energy (eV)
28-Ni-63

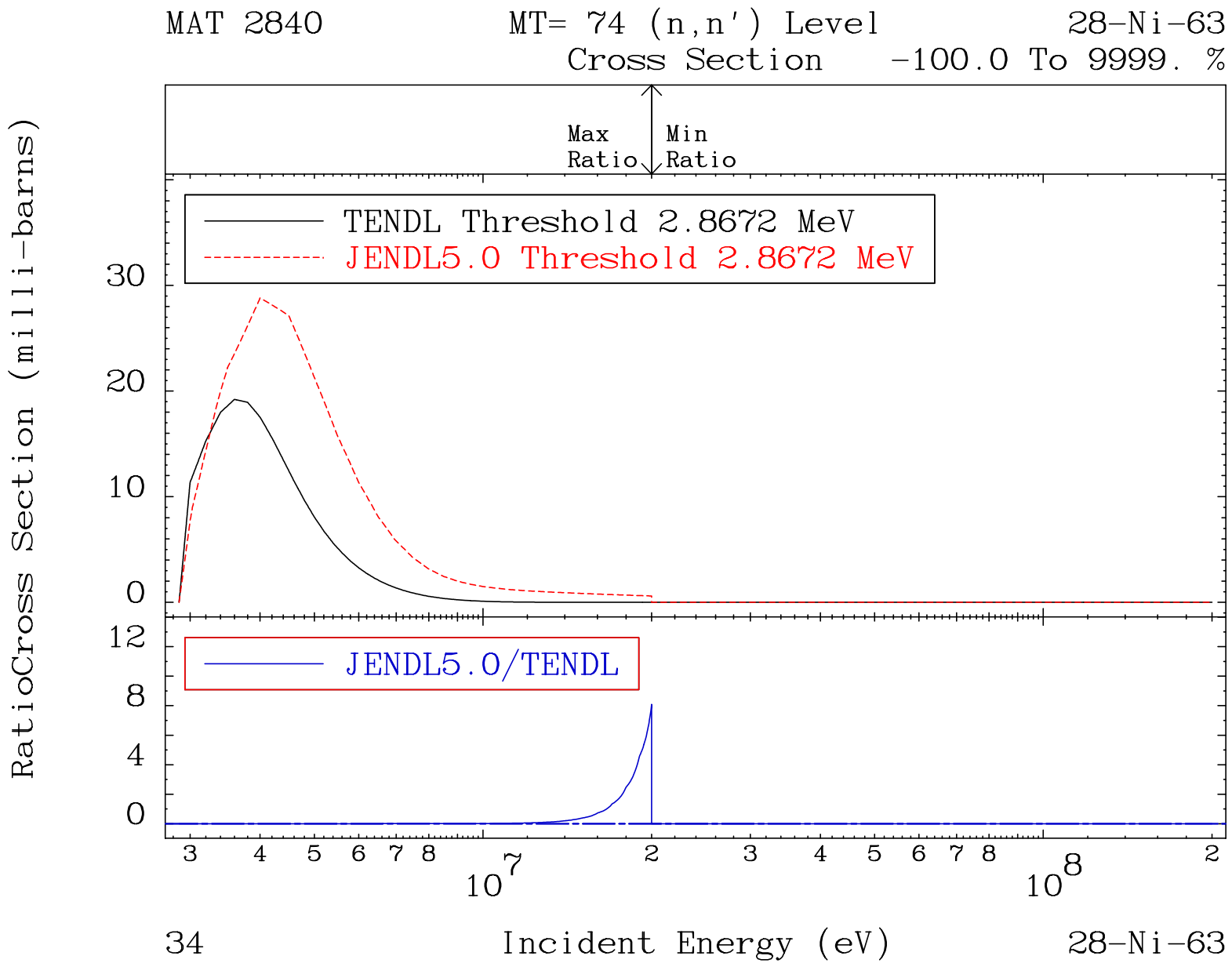

MAT 2840
MT= 69 (n,n') Level
28-Ni-63
Cross Section
-100.0 To 61.80 %
Max Ratio
Min Ratio
TENDL Threshold 2.5594 MeV
JENDL5.0 Threshold 2.5594 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
29
Incident Energy (eV)
28-Ni-63

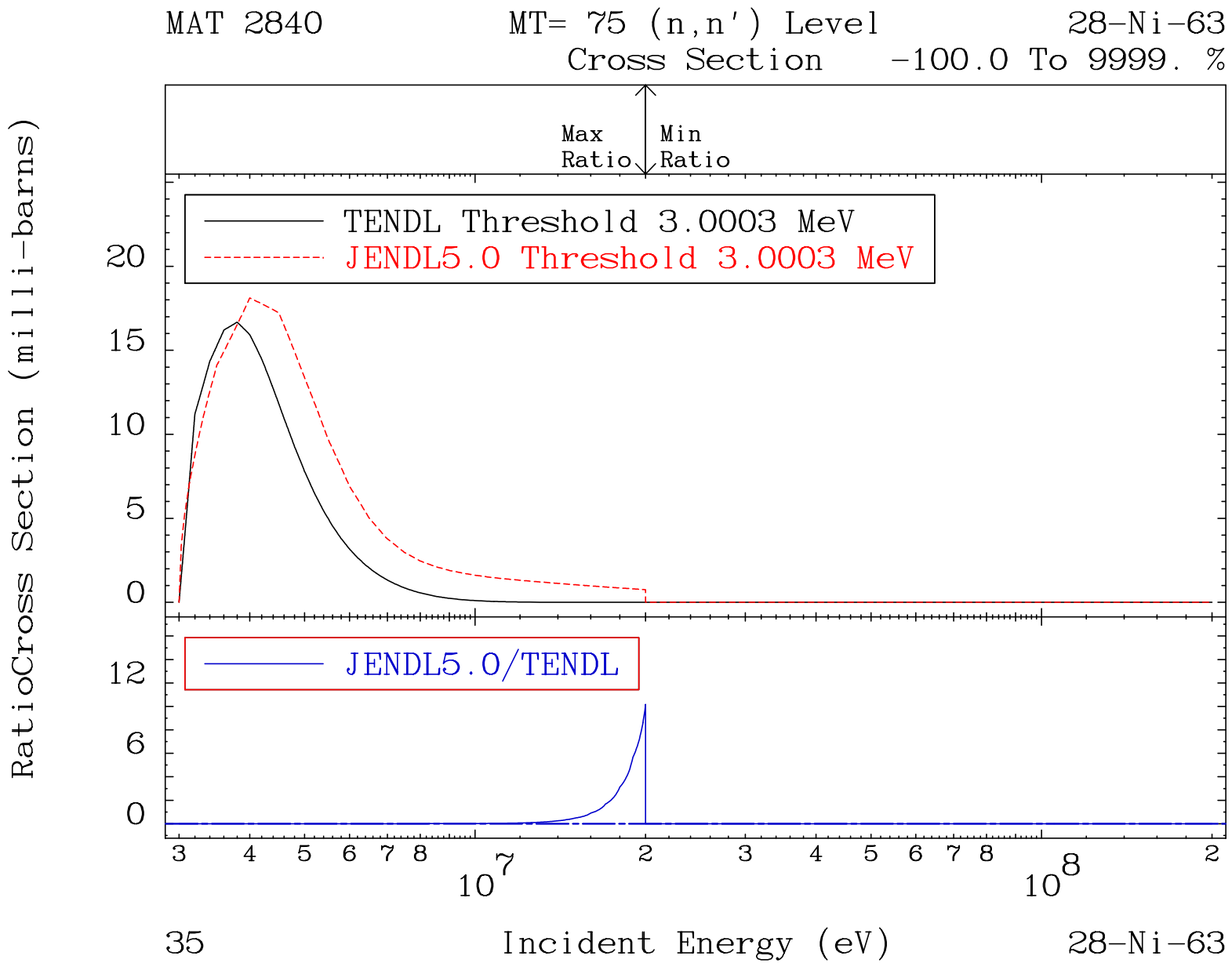

MAT 2840
MT= 70 (n,n') Level
28-Ni-63
Cross Section -100.0 To 60.76 %
Max Ratio
Min Ratio
TENDL Threshold 2.6142 MeV
JENDL5.0 Threshold 2.6142 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
28-Ni-63

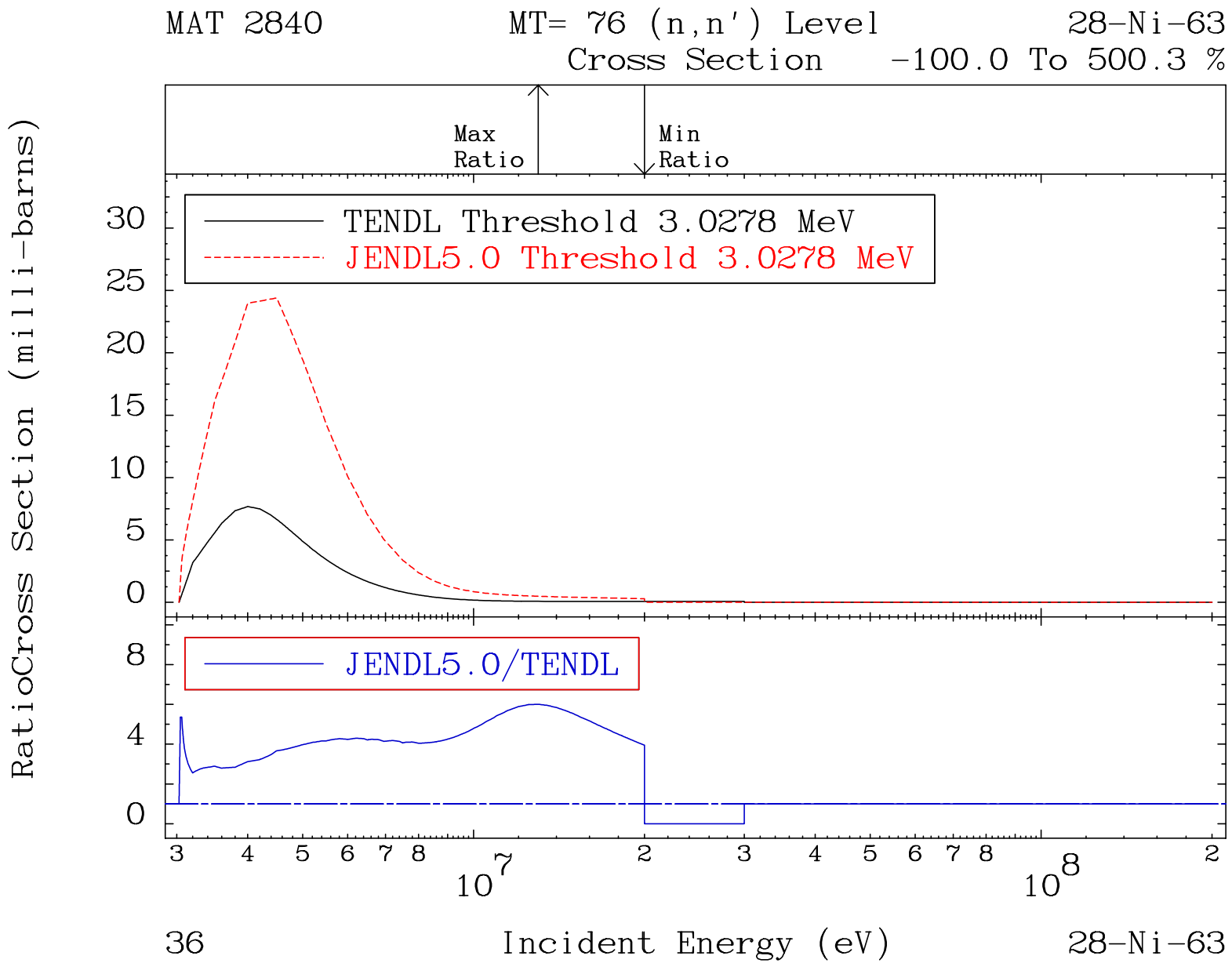

MAT 2840
MT= 71 (n,n') Level
28-Ni-63
Cross Section -100.0 To 15.65 %
Max Ratio
Min Ratio
TENDL Threshold 2.7179 MeV
JENDL5.0 Threshold 2.7179 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
28-Ni-63

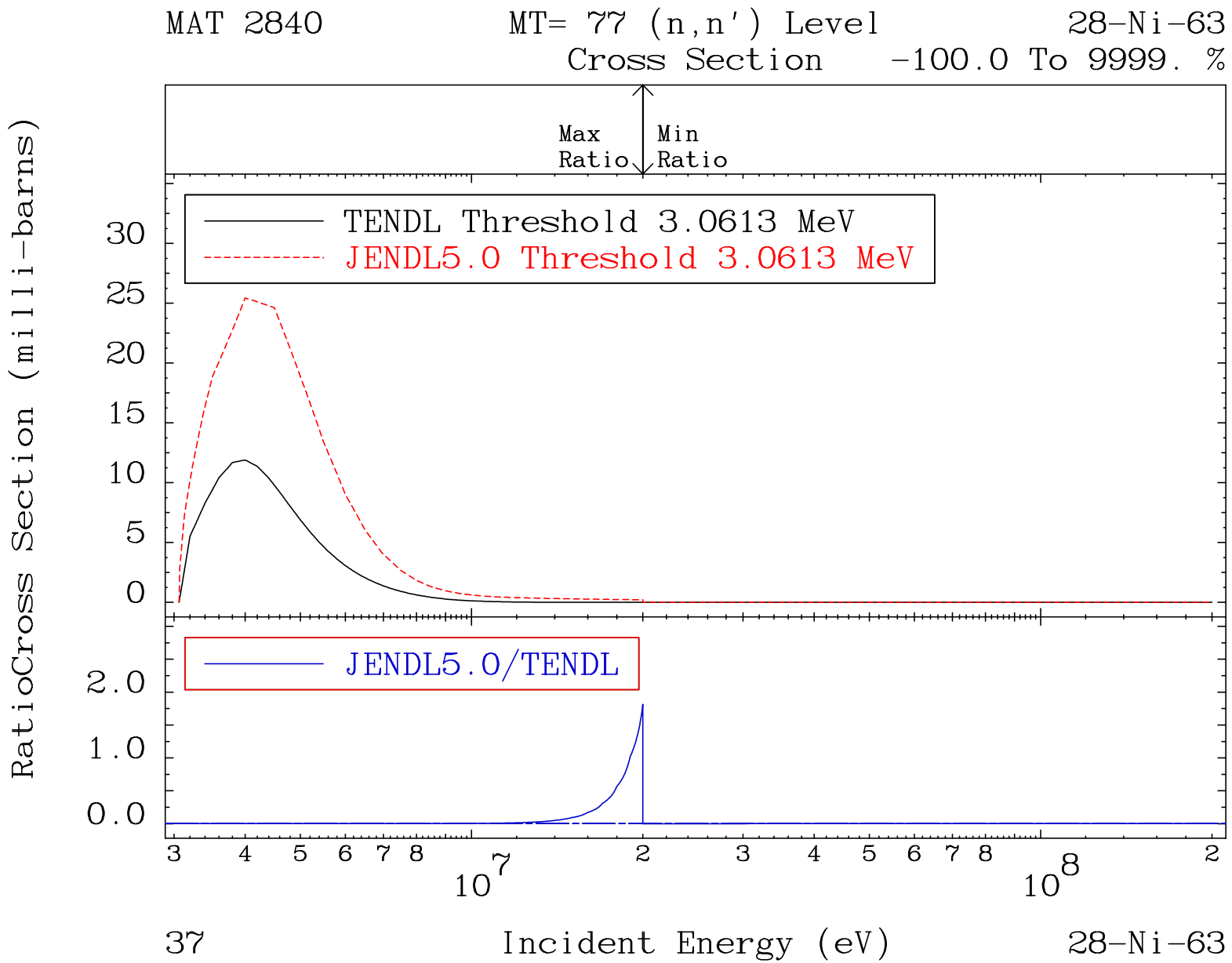

MAT 2840
MT= 72 (n,n') Level
28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.7398 MeV
JENDL5.0 Threshold 2.7398 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
8
4
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
32
Incident Energy (eV)
28-Ni-63

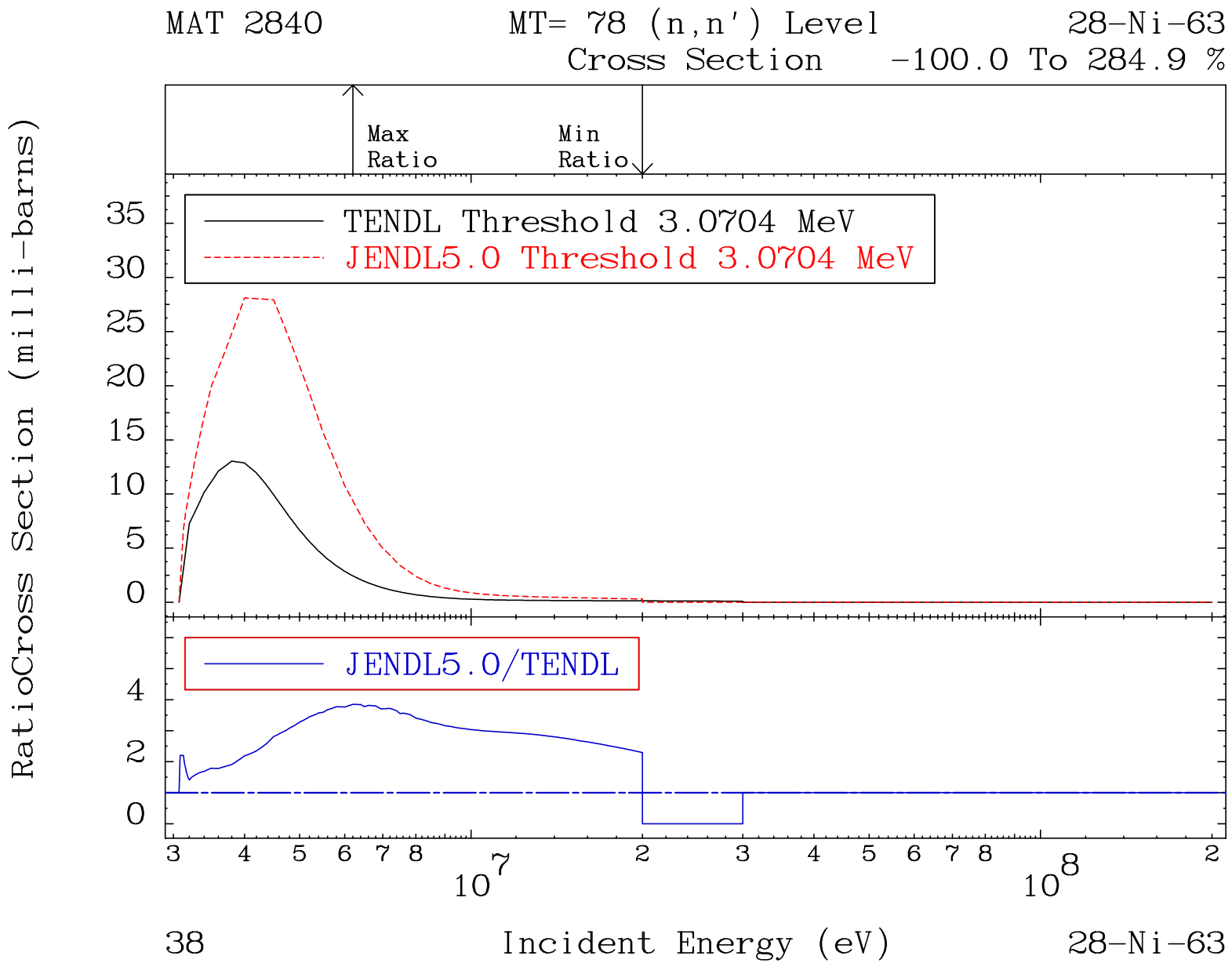

MAT 2840
MT= 73 (n,n') Level
28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.8596 MeV
JENDL5.0 Threshold 2.8596 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
2
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
33
Incident Energy (eV)
28-Ni-63

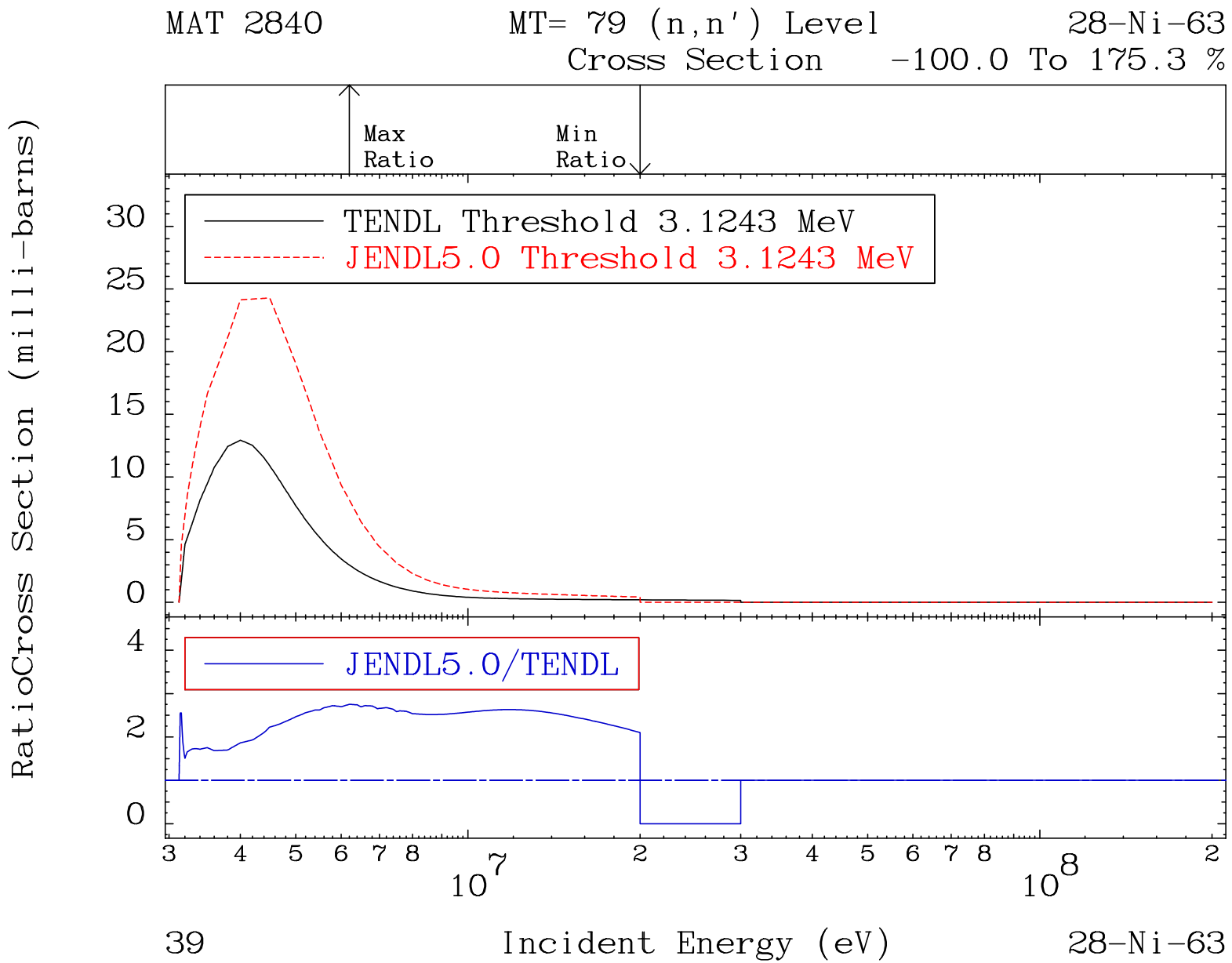

MAT 2840
MT= 74 (n,n') Level
28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.8672 MeV
JENDL5.0 Threshold 2.8672 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
20
10
0
12
8
4
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
34
Incident Energy (eV)
28-Ni-63

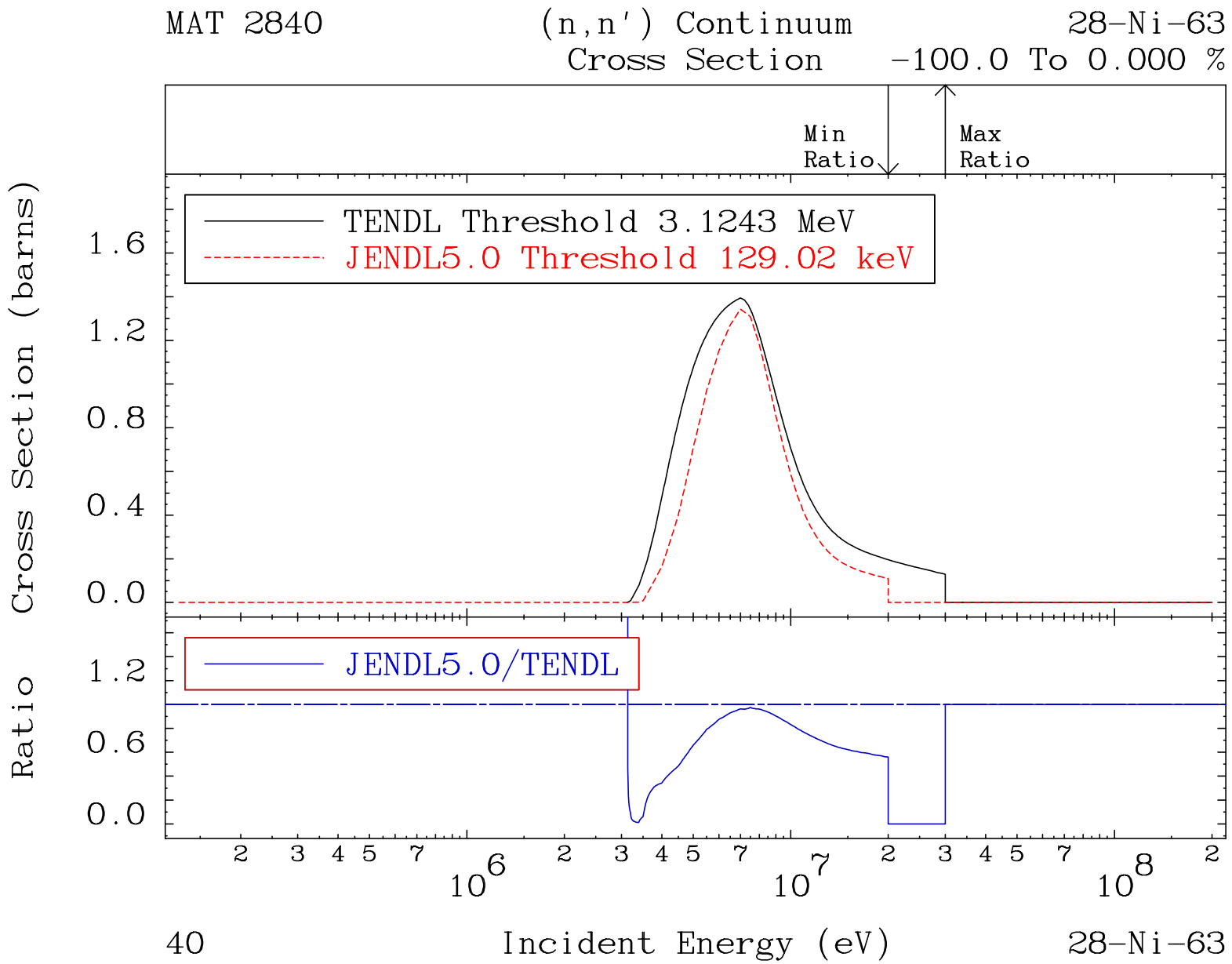

MAT 2840
MT= 75 (n,n') Level
28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.0003 MeV
JENDL5.0 Threshold 3.0003 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
35
28-Ni-63

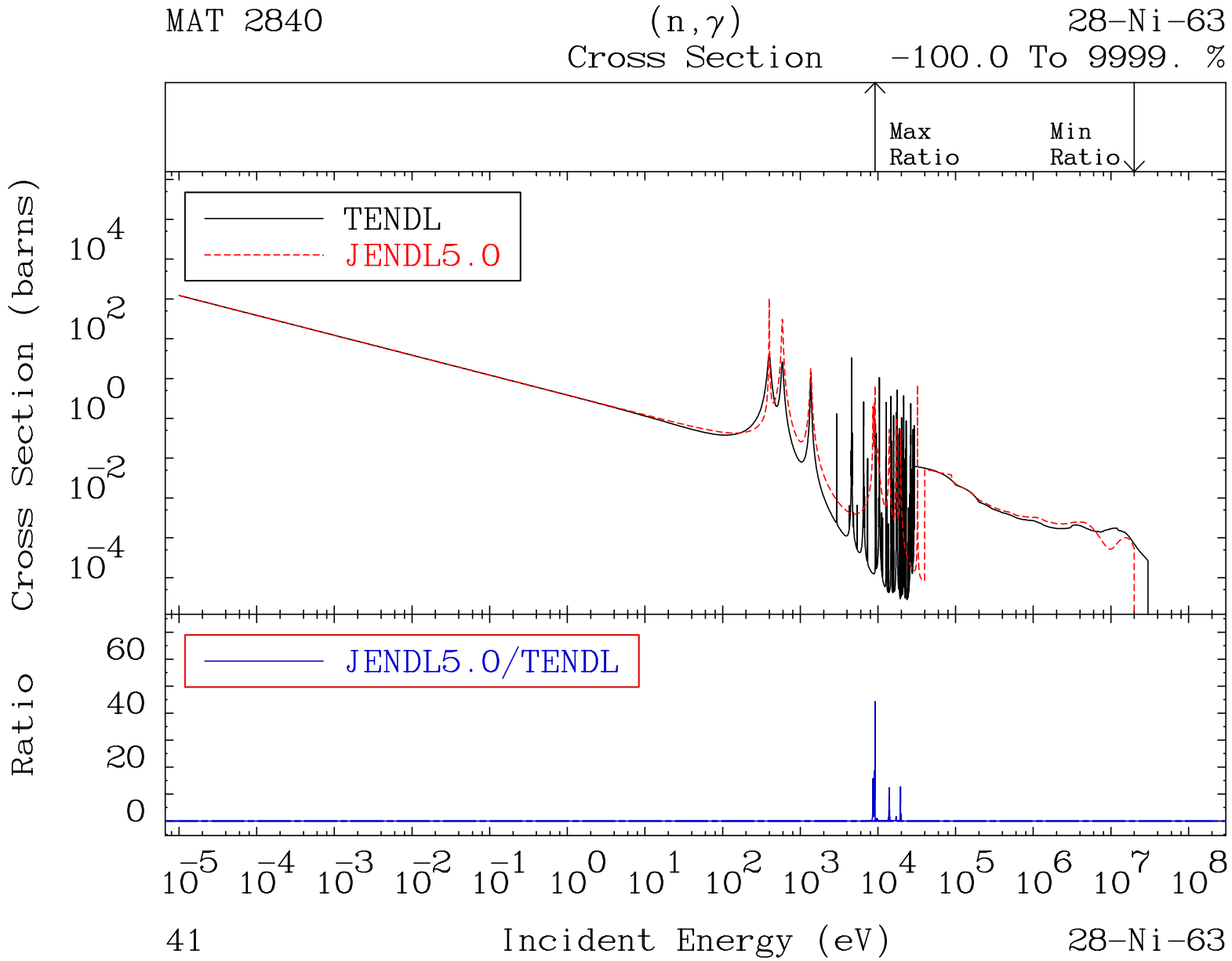

MAT 2840
MT= 76 (n,n') Level
28-Ni-63
Cross Section -100.0 To 500.3 %
Max Ratio
Min Ratio
TENDL Threshold 3.0278 MeV
JENDL5.0 Threshold 3.0278 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
8
4
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
36
Incident Energy (eV)
28-Ni-63

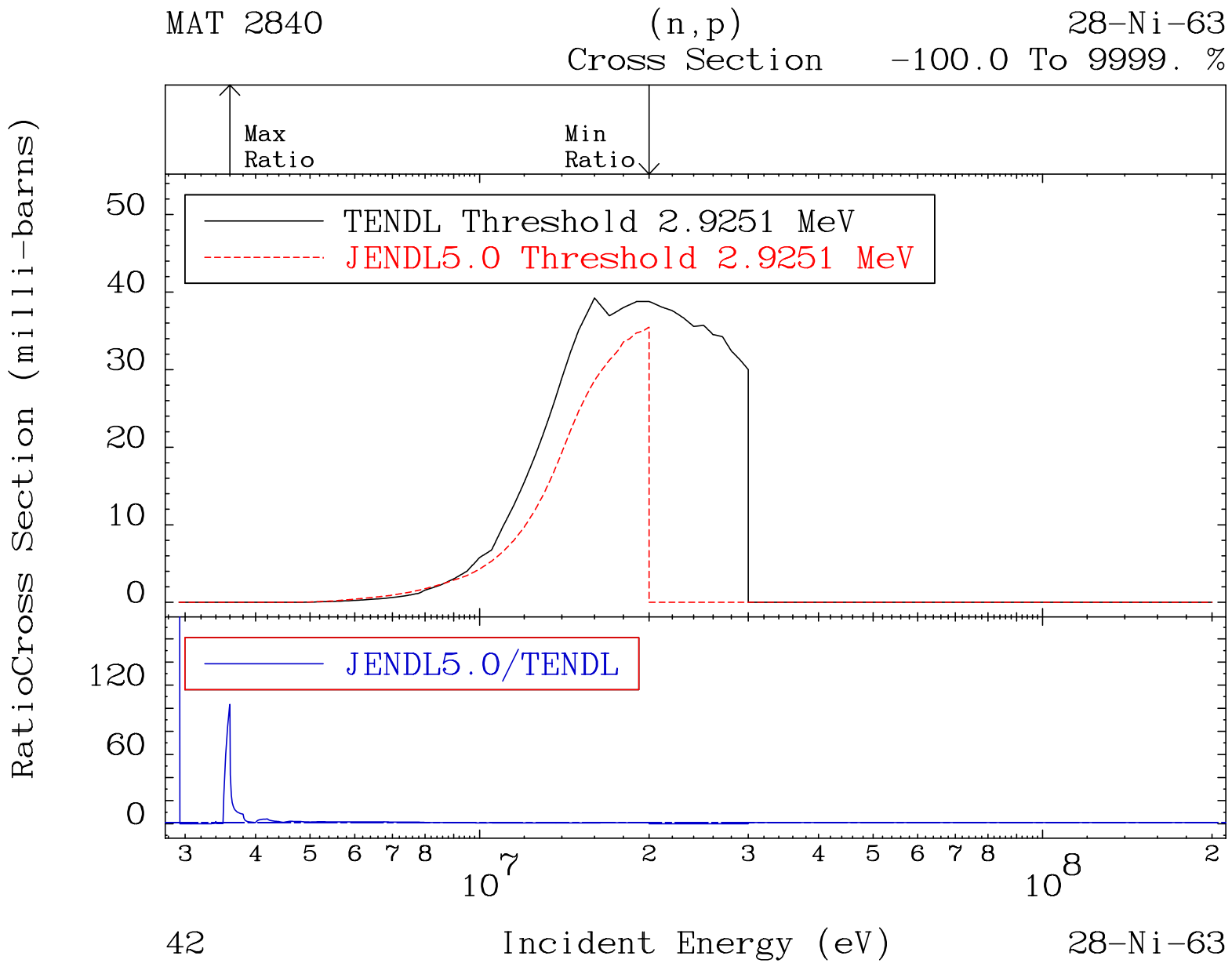

MAT 2840
MT= 77 (n,n') Level
28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.0613 MeV
JENDL5.0 Threshold 3.0613 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
37
Incident Energy (eV)
28-Ni-63

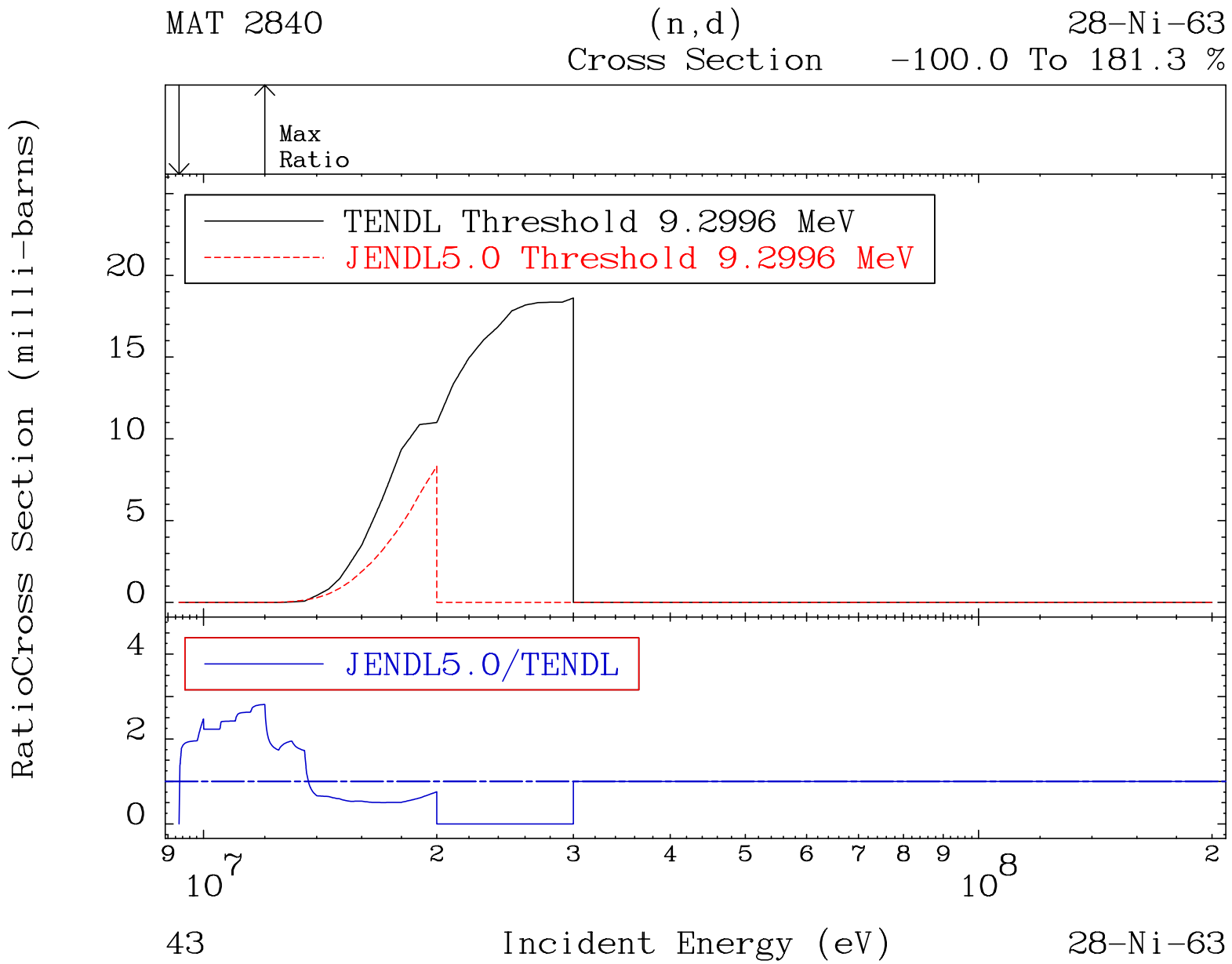

MAT 2840
MT= 78 (n,n') Level
28-Ni-63
Cross Section -100.0 To 284.9 %
Max Ratio
Min Ratio
TENDL Threshold 3.0704 MeV
JENDL5.0 Threshold 3.0704 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
4
2
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
38
Incident Energy (eV)
28-Ni-63

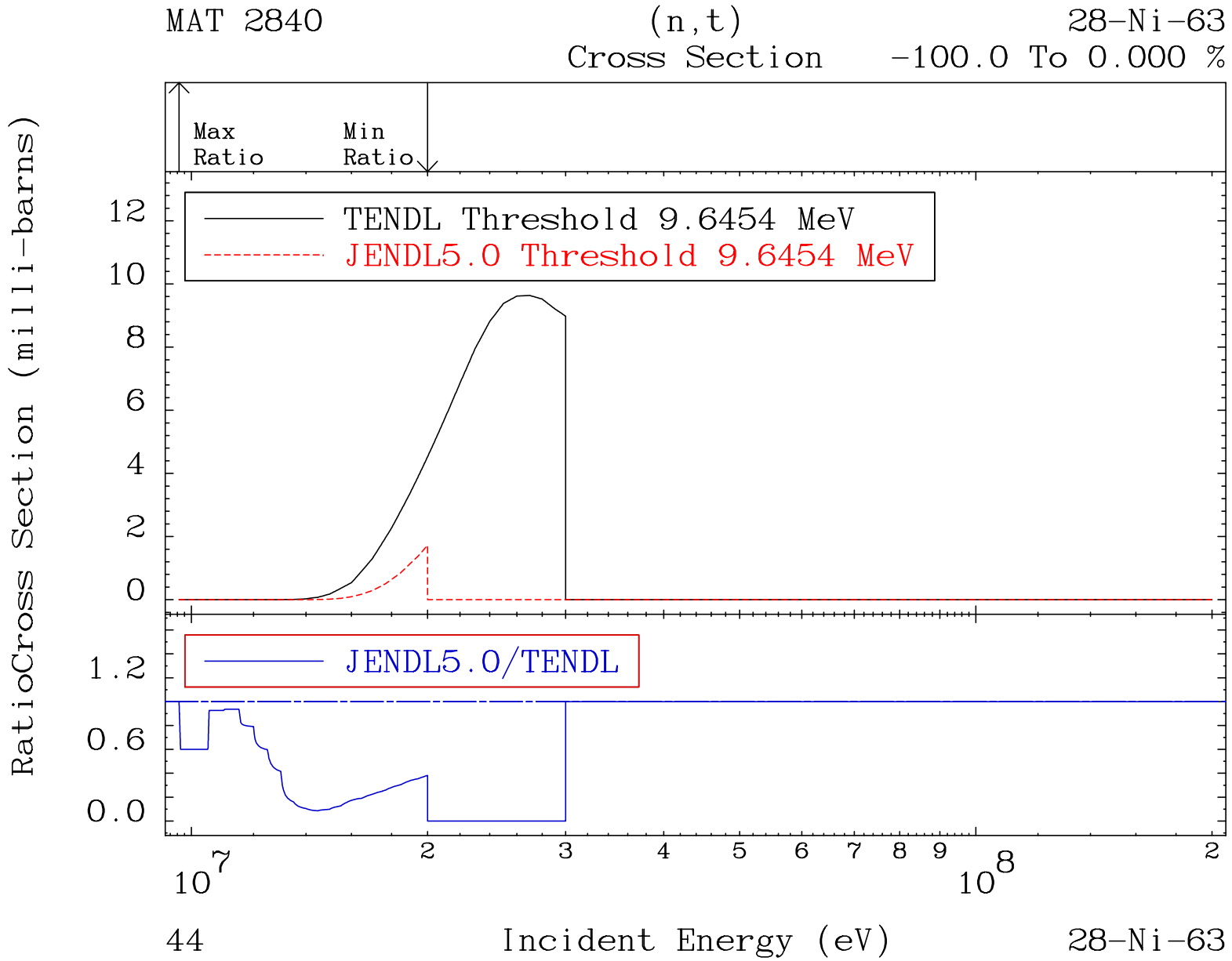

MAT 2840
MT= 79 (n,n') Level
28-Ni-63
Cross Section -100.0 To 175.3 %
Max Ratio
Min Ratio
TENDL Threshold 3.1243 MeV
JENDL5.0 Threshold 3.1243 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
4
2
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
39
Incident Energy (eV)
28-Ni-63

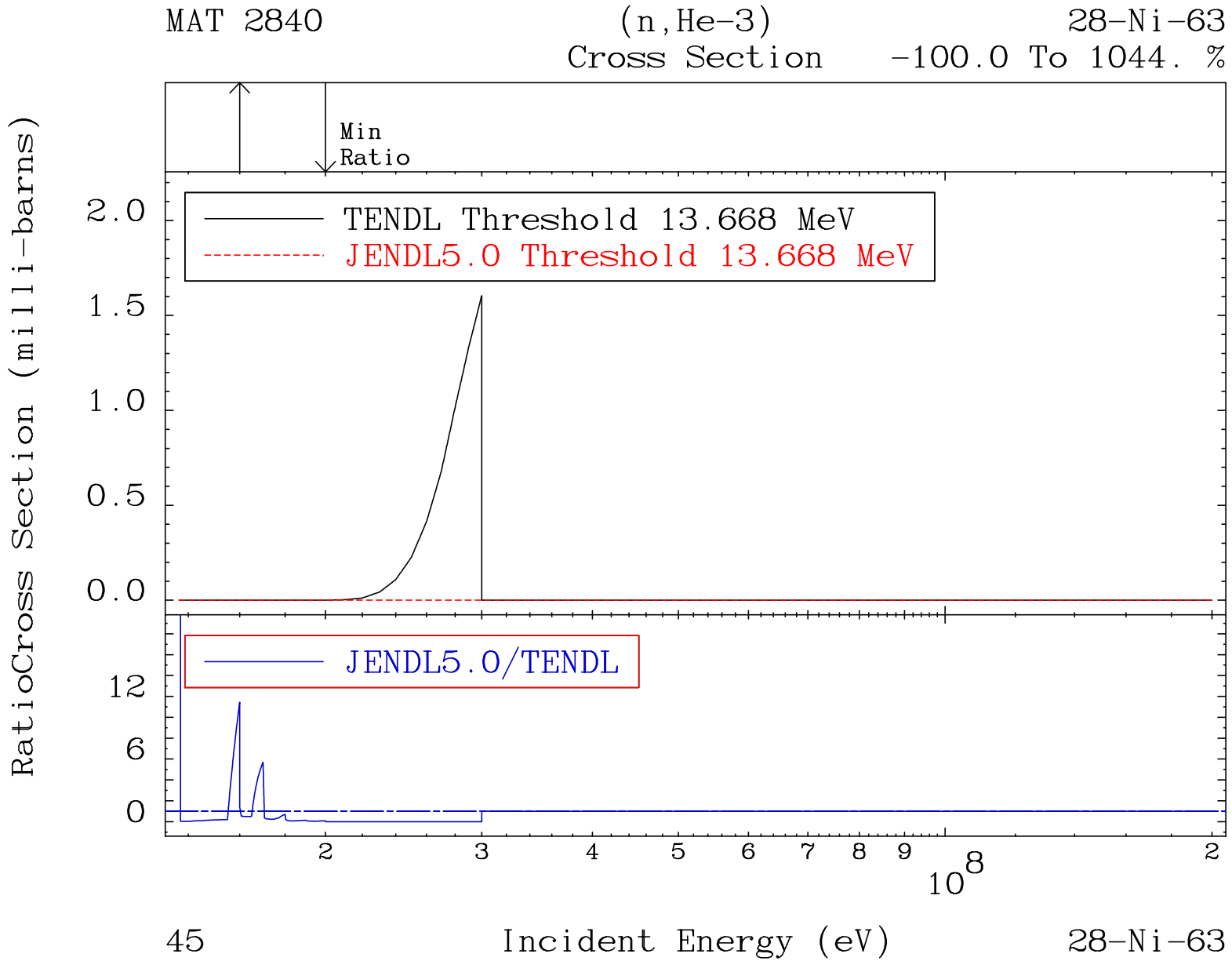

MAT 2840
(n,n') Continuum
Cross Section
28-Ni-63
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 3.1243 MeV
JENDL5.0 Threshold 129.02 keV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
JENDL5.0/TENDL
Ratio
1.2
0.6
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
40
Incident Energy (eV)
28-Ni-63

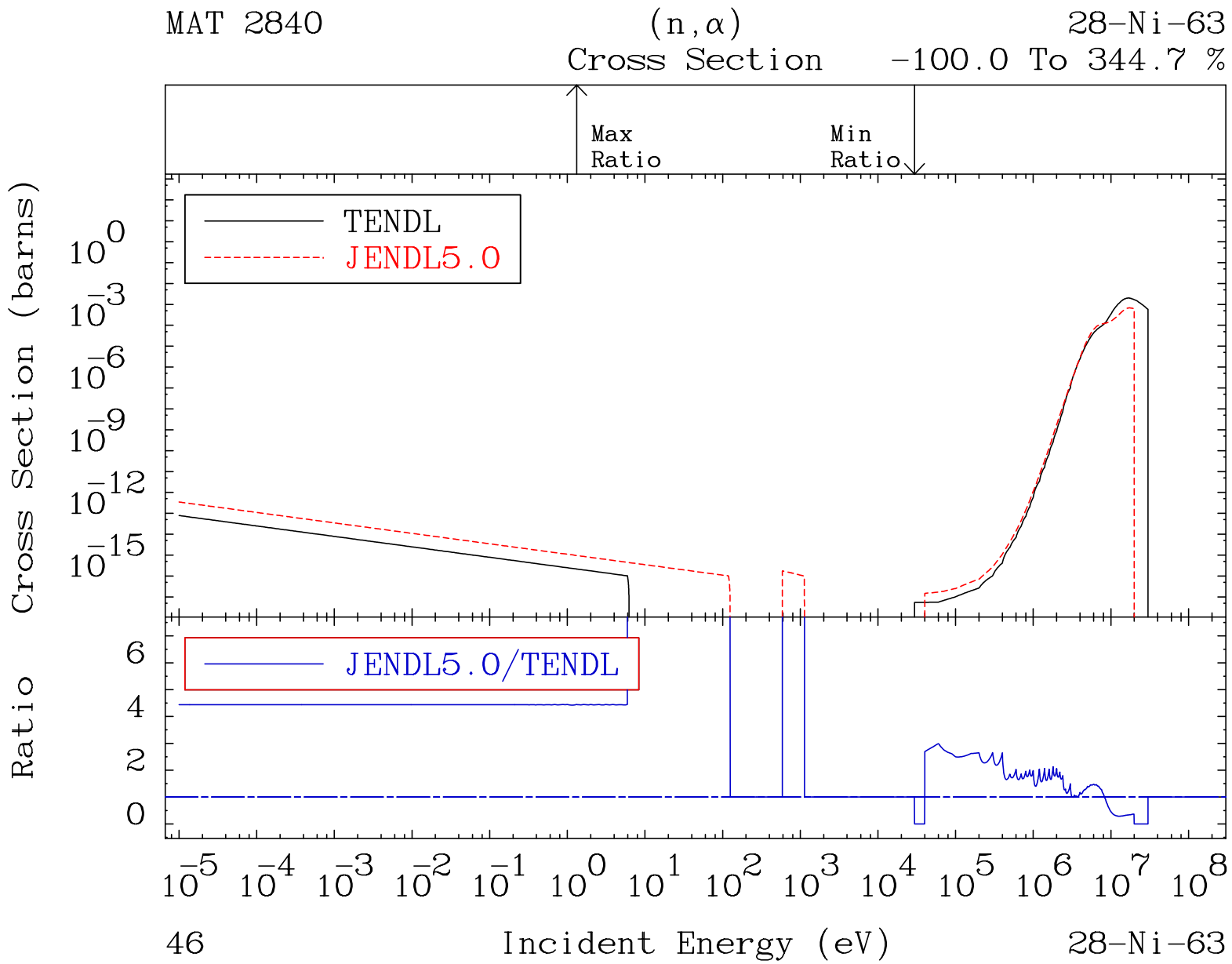

MAT 2840
(n,γ)
Cross Section
28-Ni-63
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
41
28-Ni-63

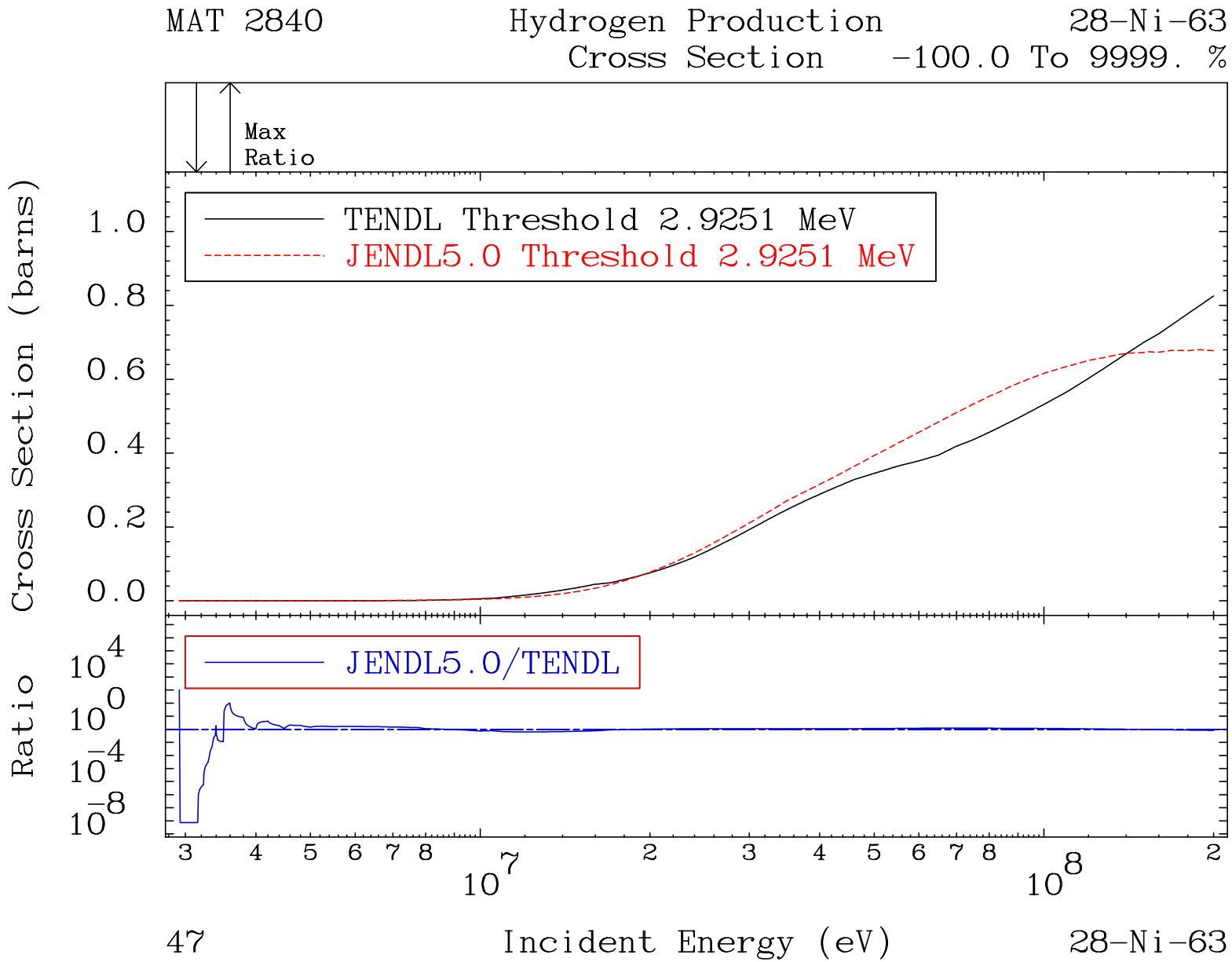

MAT 2840
(n,p)
28-Ni-63
Cross Section
-100.0 To 9999. %
Max
Ratio
Min
Ratio
TENDL Threshold 2.9251 MeV
JENDL5.0 Threshold 2.9251 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
120
60
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
42
Incident Energy (eV)
28-Ni-63

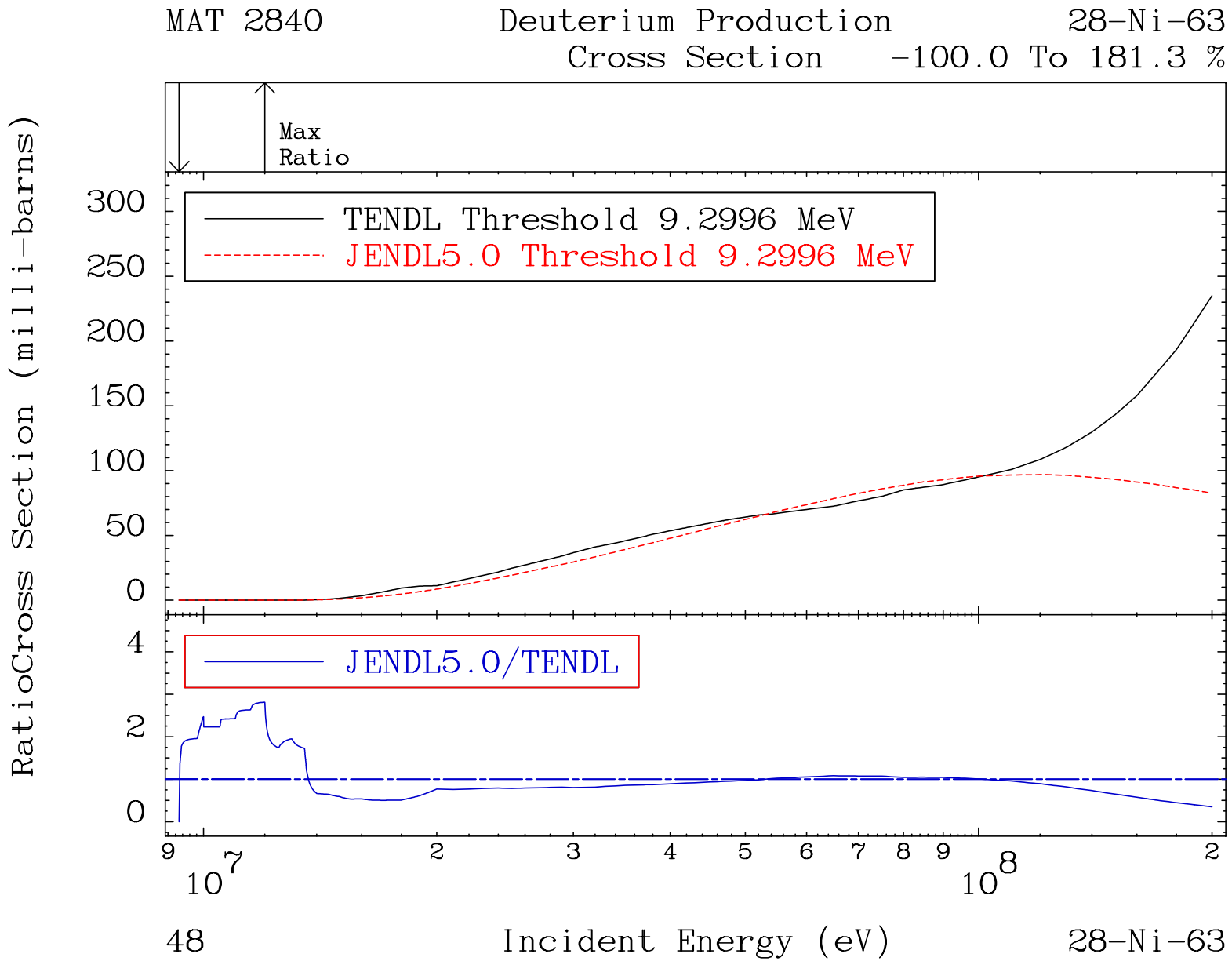

MAT 2840
(n,d)
28-Ni-63
Cross Section
-100.0 To 181.3 %
Max
Ratio
TENDL Threshold 9.2996 MeV
JENDL5.0 Threshold 9.2996 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
43
28-Ni-63

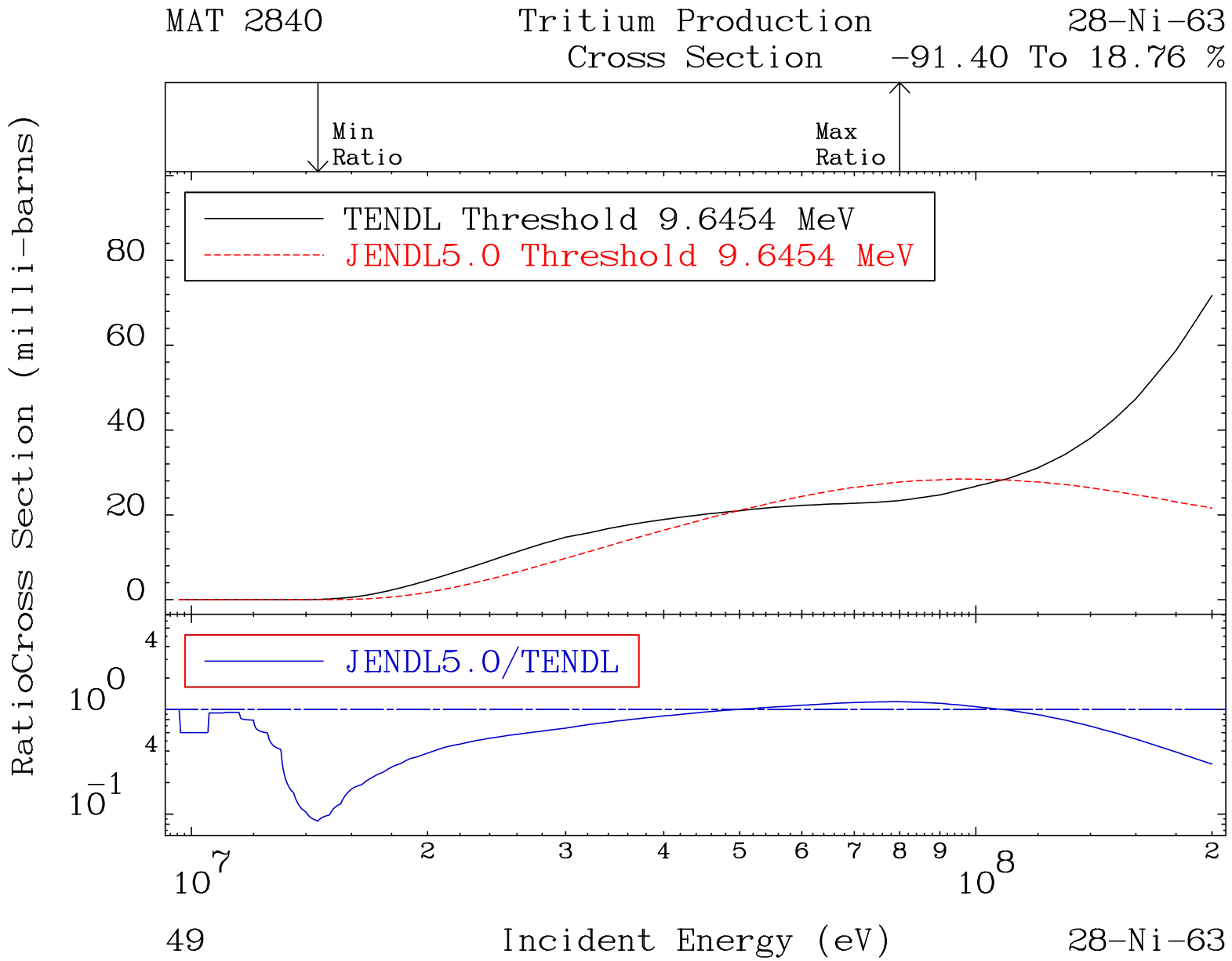

MAT 2840
(n,t)
Cross Section
28-Ni-63
-100.0 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 9.6454 MeV
JENDL5.0 Threshold 9.6454 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
12
10
8
6
4
2
0
1.2
0.6
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
44
Incident Energy (eV)
28-Ni-63

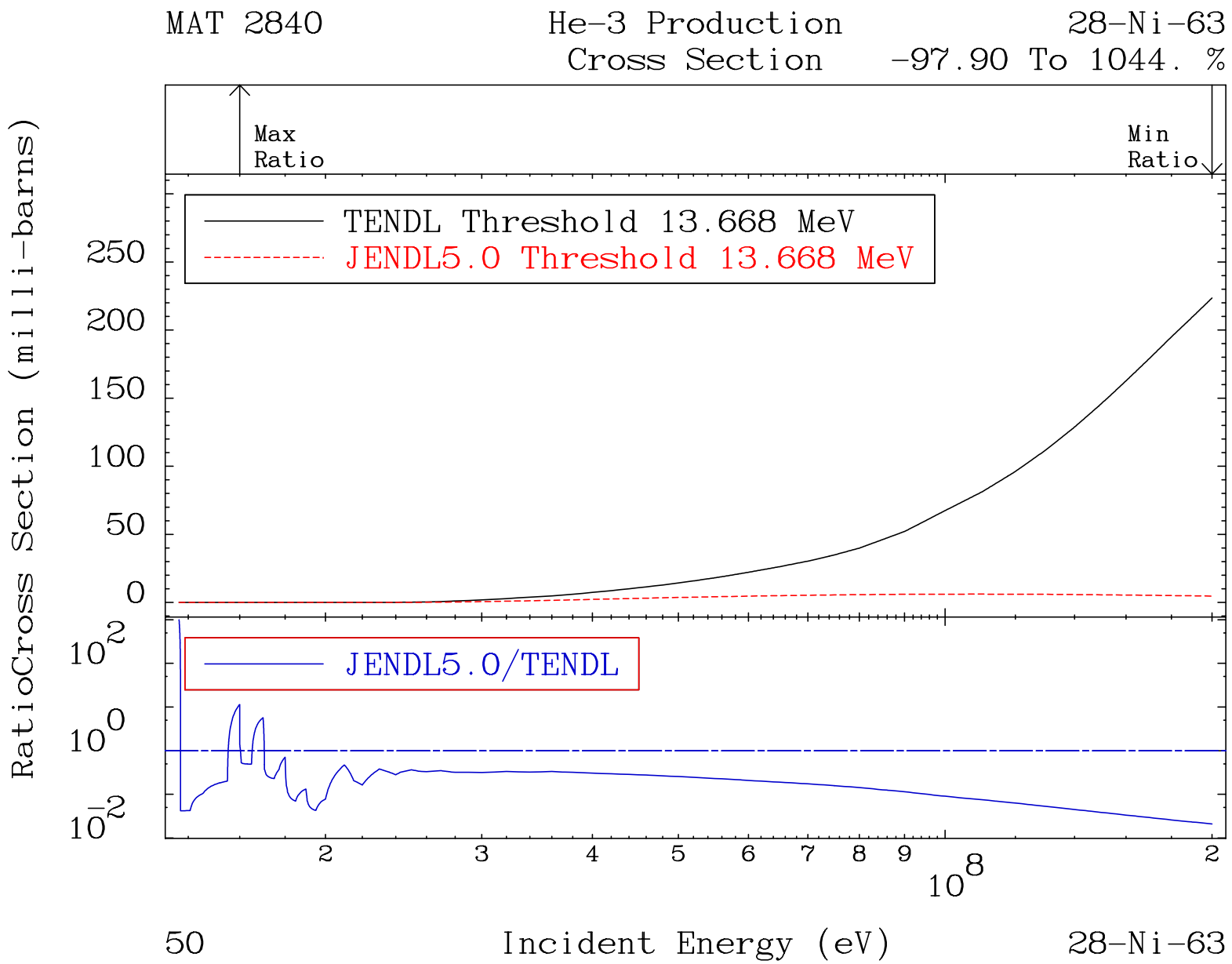

MAT 2840
(n,He-3)
28-Ni-63
Cross Section
-100.0 To 1044. %
Min
Ratio
TENDL Threshold 13.668 MeV
JENDL5.0 Threshold 13.668 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
12
6
0
2
3
4
5
6
7
8
9
10^8
2
45
Incident Energy (eV)
28-Ni-63

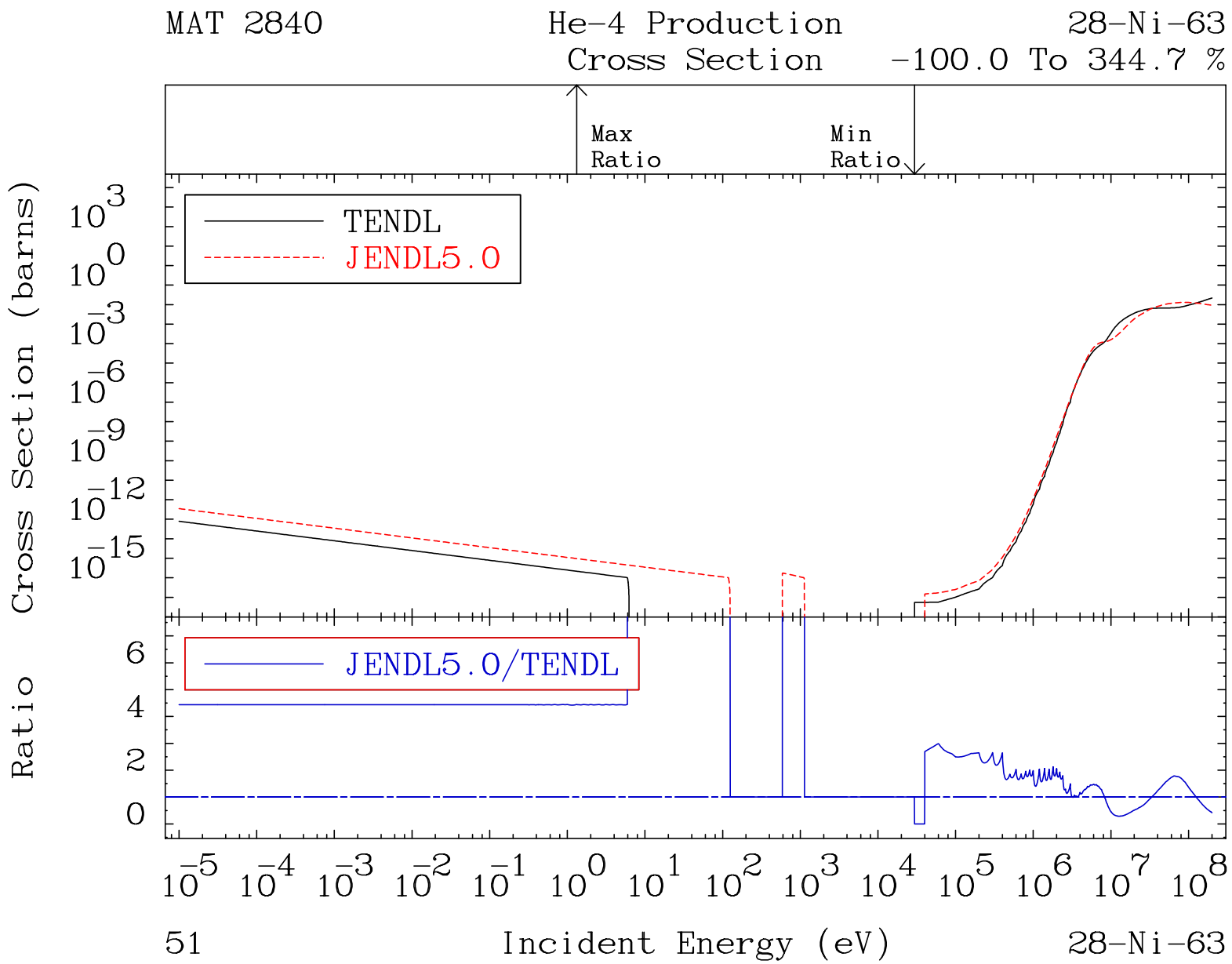

MAT 2840
(n,α)
28-Ni-63
Cross Section
-100.0 To 344.7 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
46
28-Ni-63

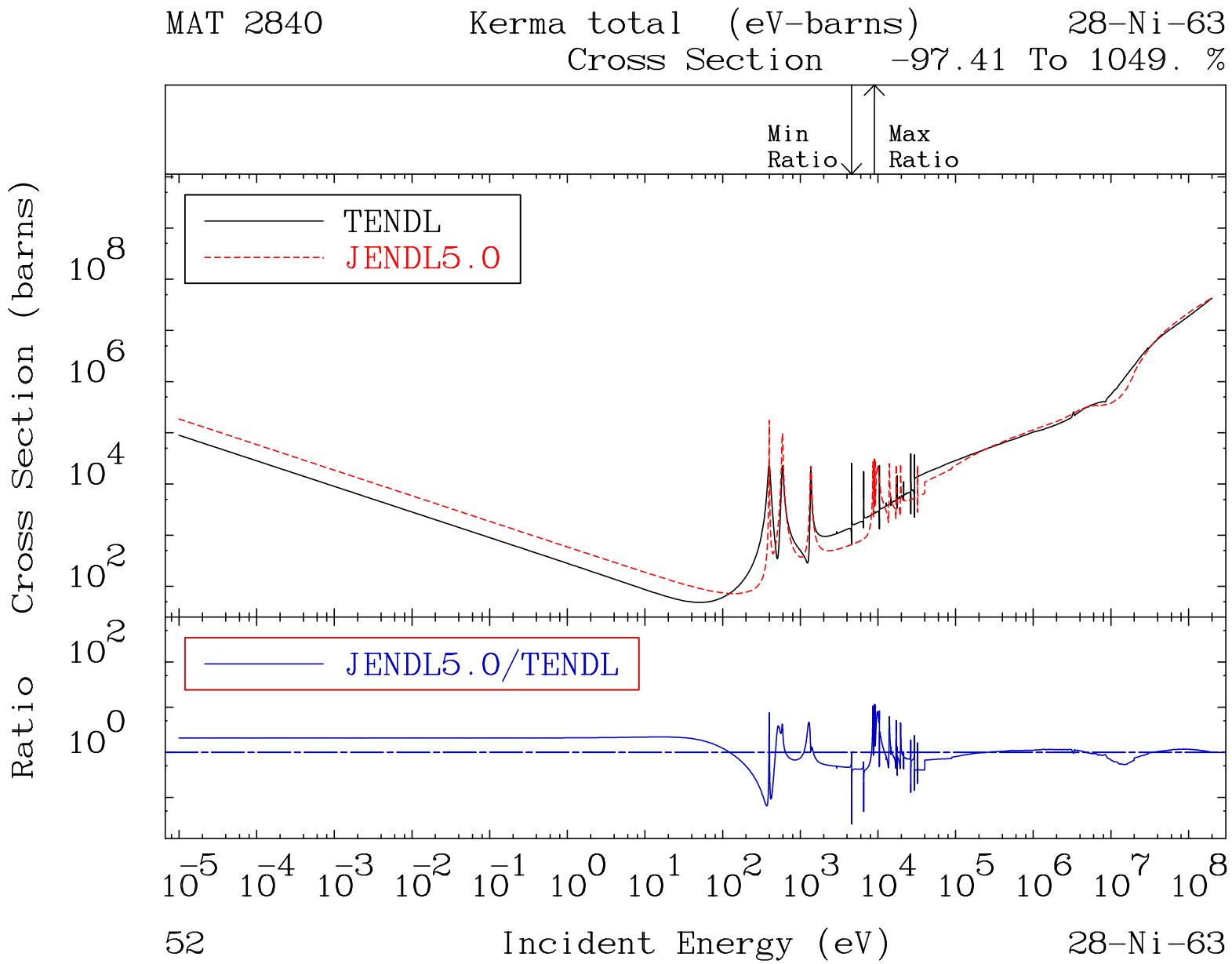

MAT 2840
Hydrogen Production
28-Ni-63
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 2.9251 MeV
JENDL5.0 Threshold 2.9251 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
10^4
10^0
10^-4
10^-8
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
47
28-Ni-63

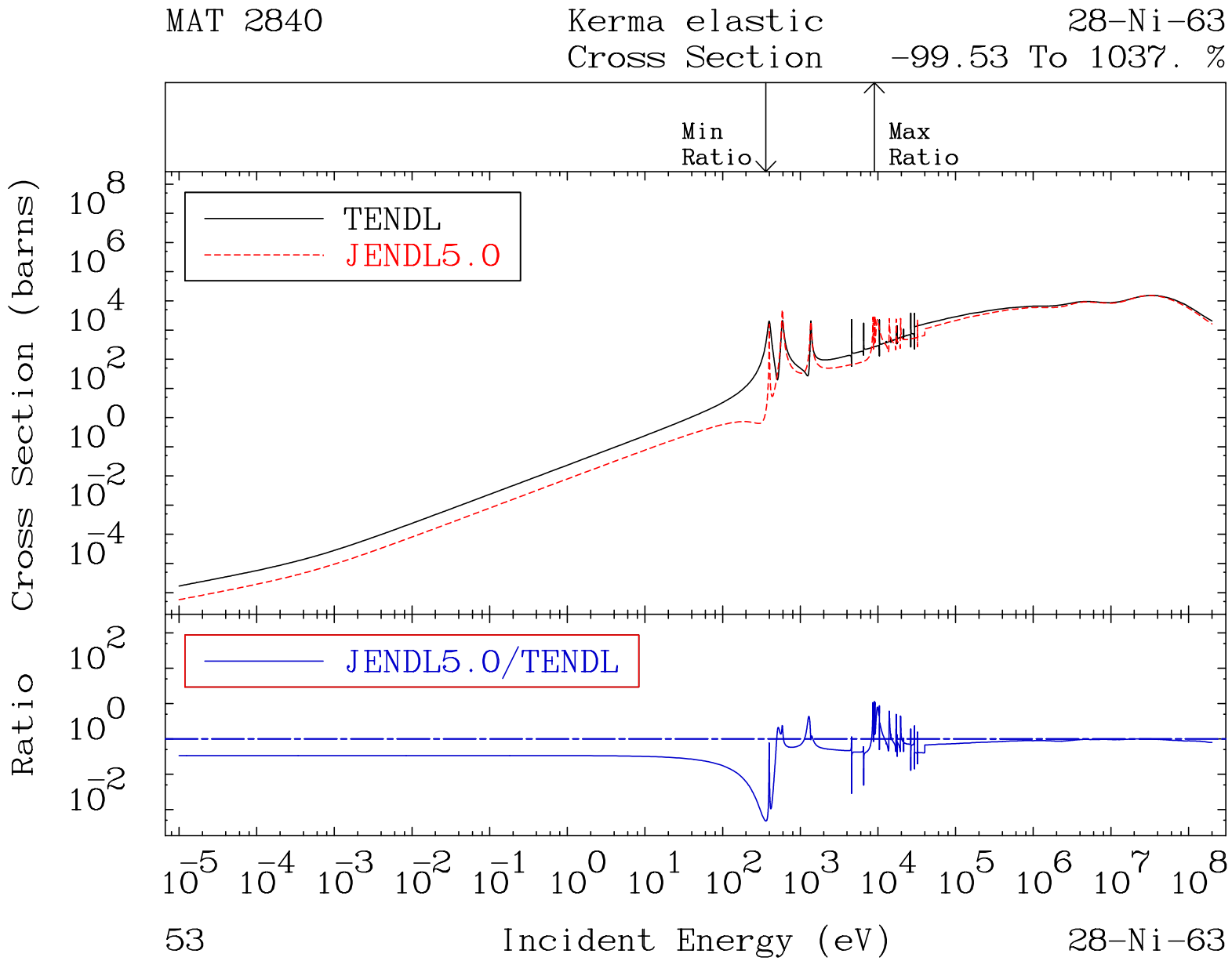

MAT 2840
Deuterium Production
28-Ni-63
Cross Section -100.0 To 181.3 %
Max
Ratio
TENDL Threshold 9.2996 MeV
JENDL5.0 Threshold 9.2996 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
4
2
0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
48
Incident Energy (eV)
28-Ni-63

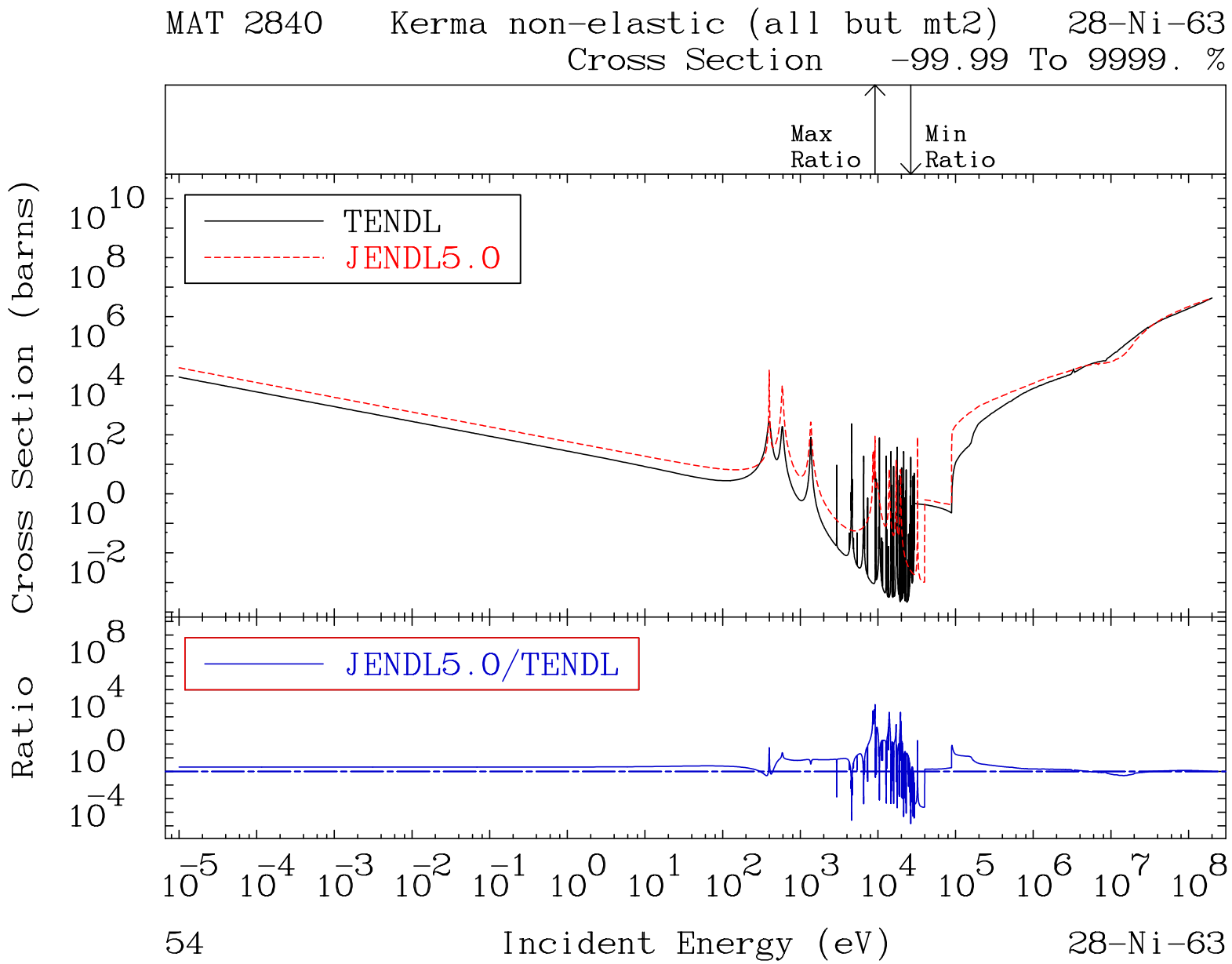

MAT 2840
Tritium Production
28-Ni-63
Cross Section
-91.40 To 18.76 %
Min Ratio
Max Ratio
TENDL Threshold 9.6454 MeV
JENDL5.0 Threshold 9.6454 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
4
10^{0}
4
10^{-1}
10^{7}
2
3
4
5
6
7
8
9
10^{8}
2
49
Incident Energy (eV)
28-Ni-63

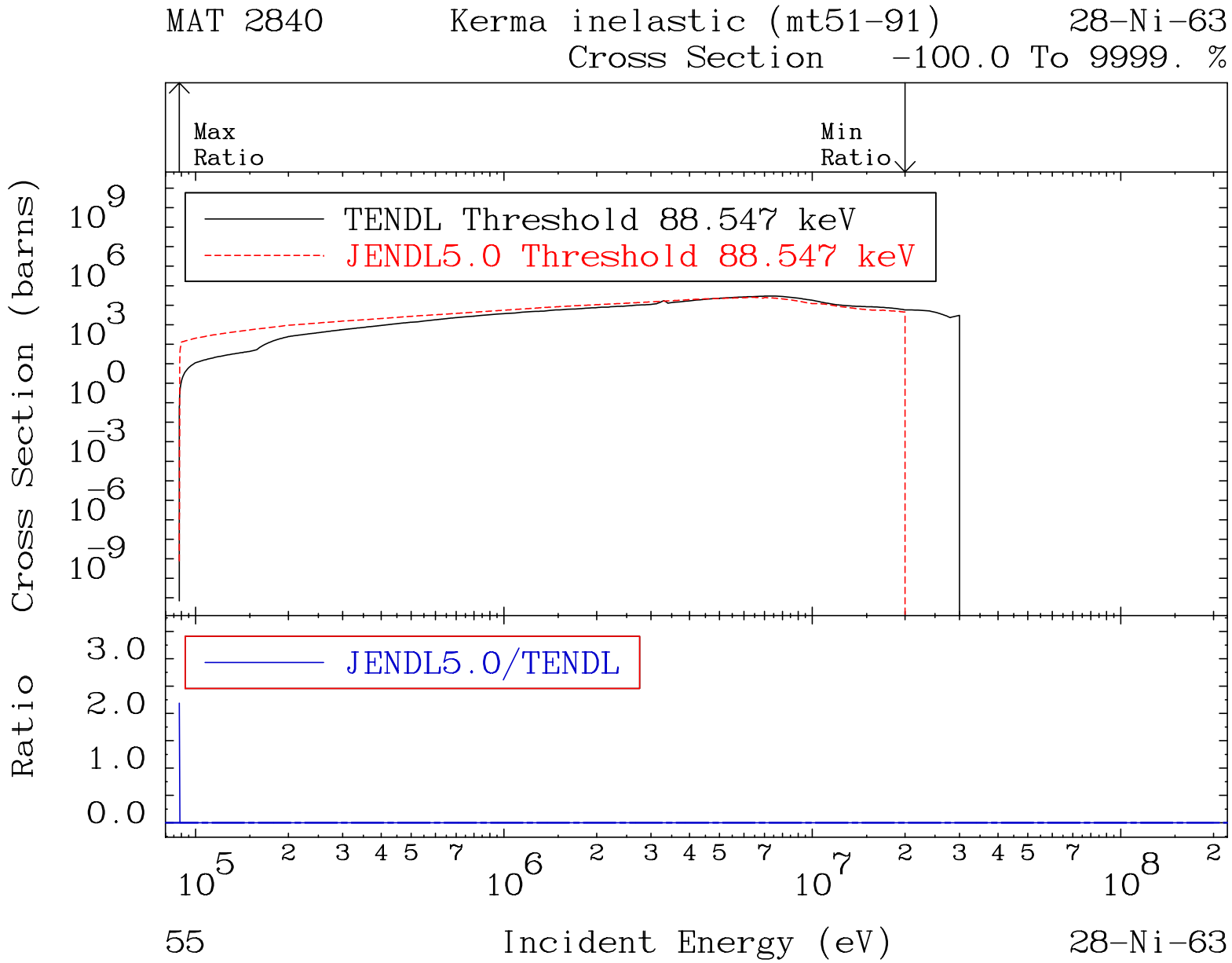

MAT 2840
He-3 Production
Cross Section
28-Ni-63
-97.90 To 1044. %
Max Ratio
Min Ratio
TENDL Threshold 13.668 MeV
JENDL5.0 Threshold 13.668 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
50
Incident Energy (eV)
28-Ni-63

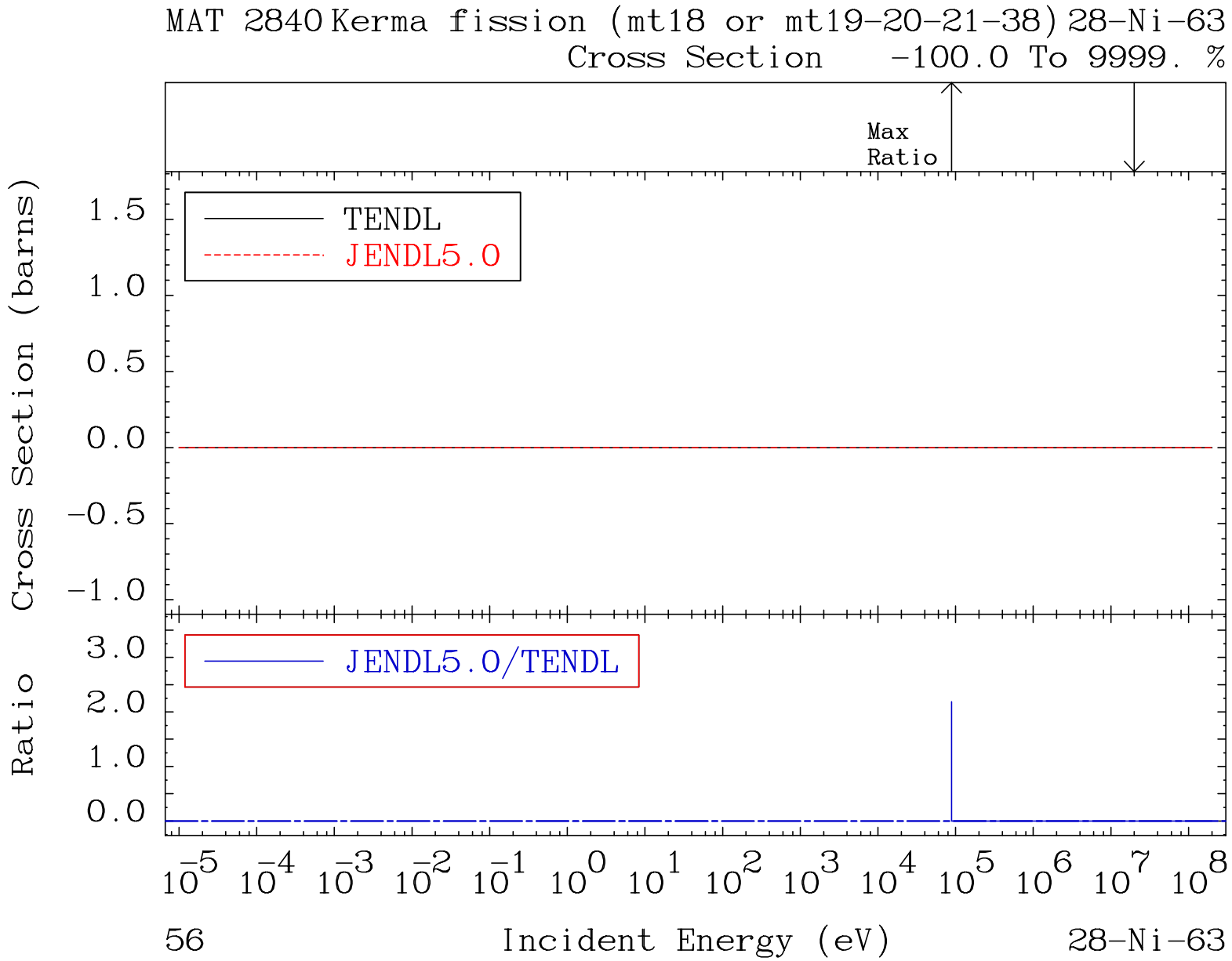

MAT 2840
He-4 Production
Cross Section
28-Ni-63
-100.0 To 344.7 %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
51
28-Ni-63

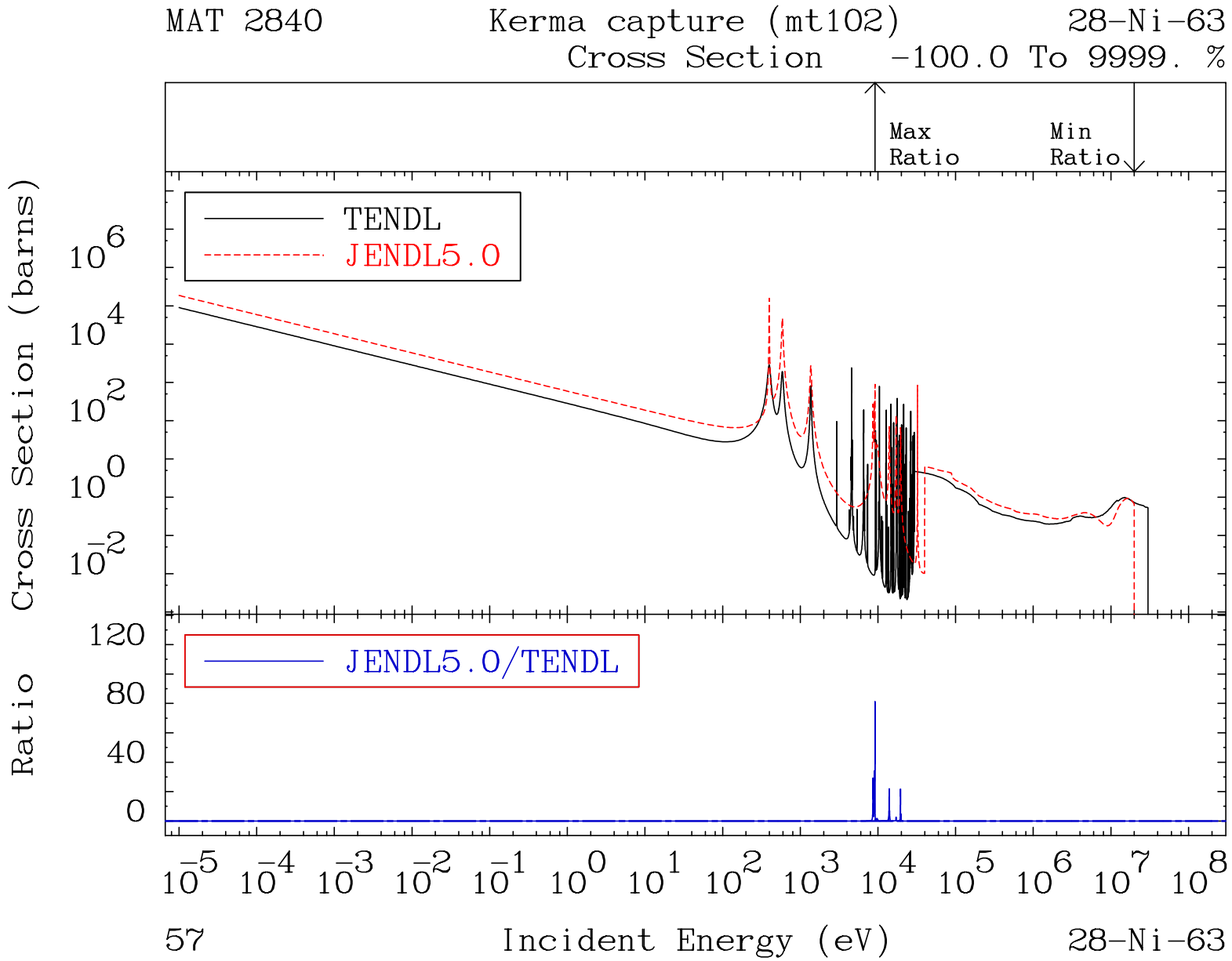

MAT 2840
Kerma total (eV-barns)
28-Ni-63
Cross Section -97.41 To 1049. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
52
28-Ni-63

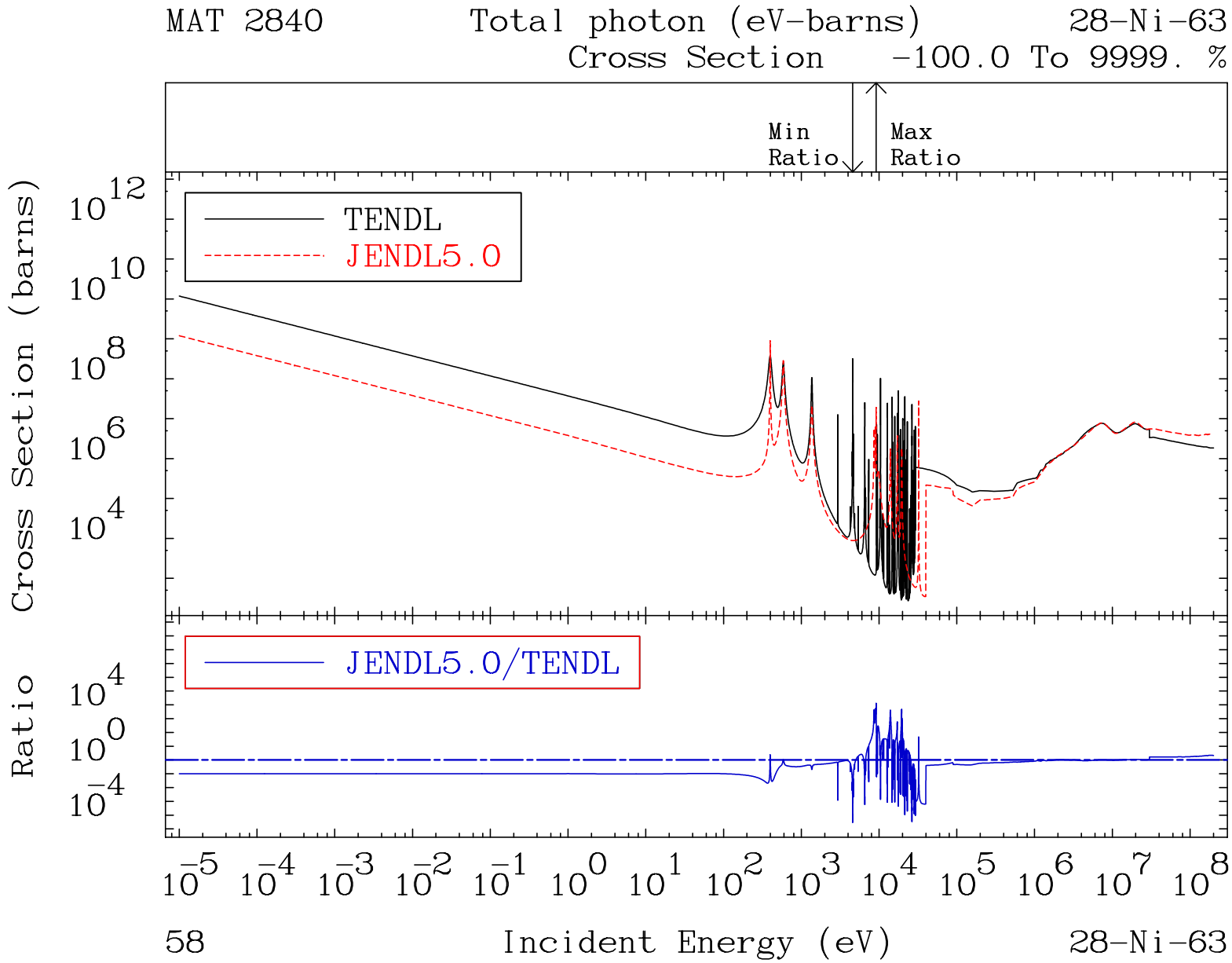

MAT 2840
Kerma elastic
Cross Section
28-Ni-63
-99.53 To 1037. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
53
28-Ni-63

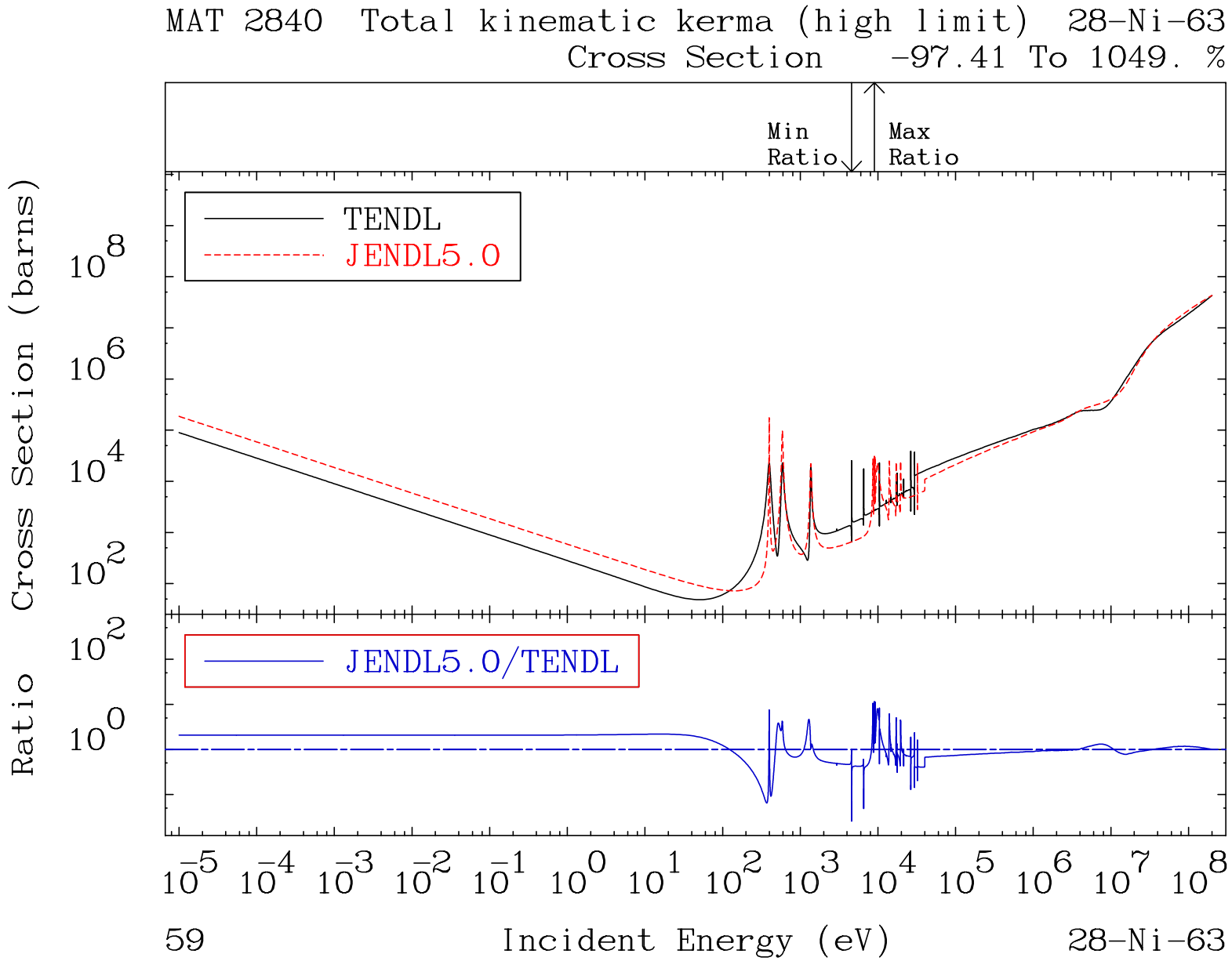

MAT 2840 Kerma non-elastic (all but mt2) 28-Ni-63
Cross Section -99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
28-Ni-63

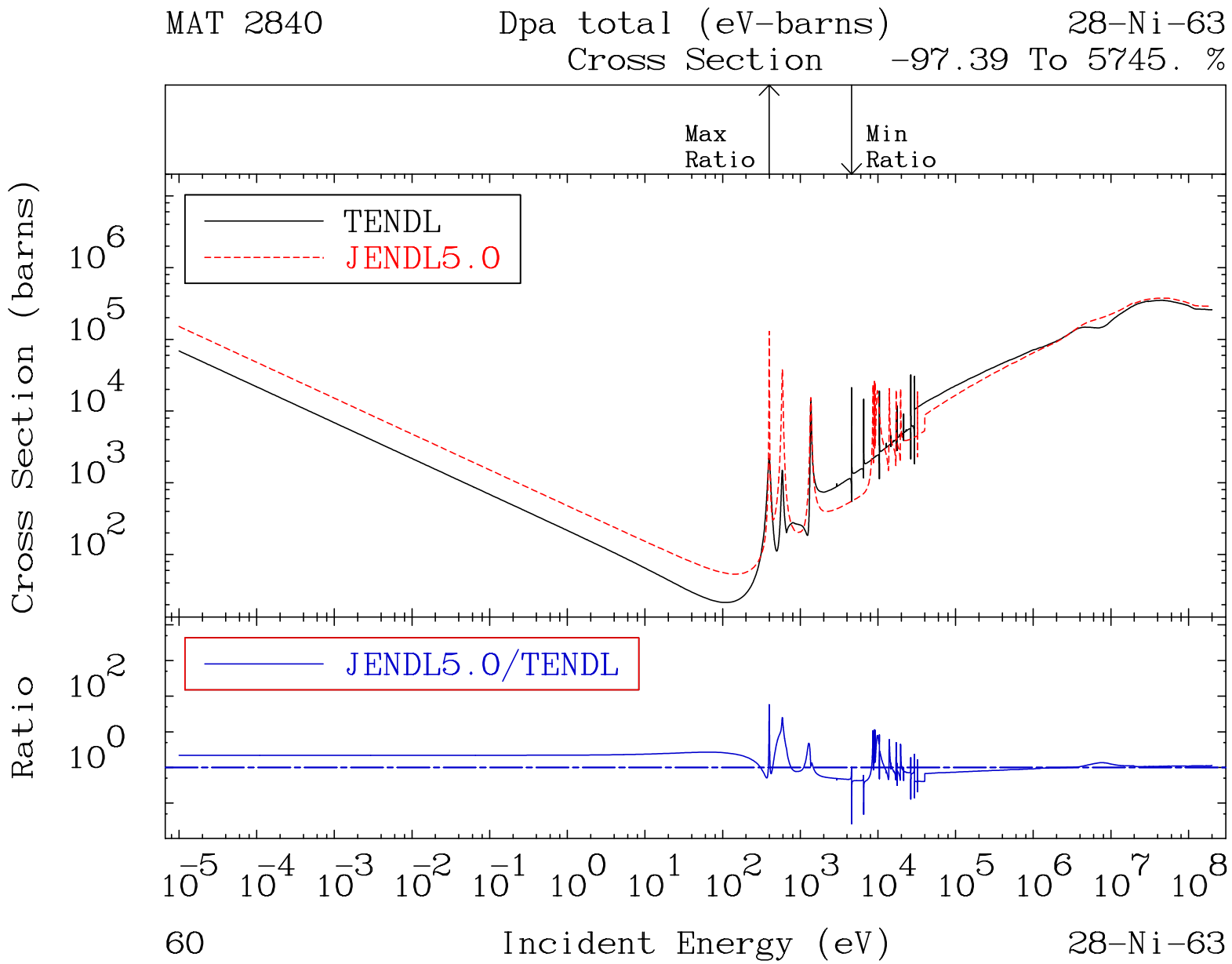

MAT 2840
Kerma inelastic (mt51-91)
28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 88.547 keV
JENDL5.0 Threshold 88.547 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
55
28-Ni-63

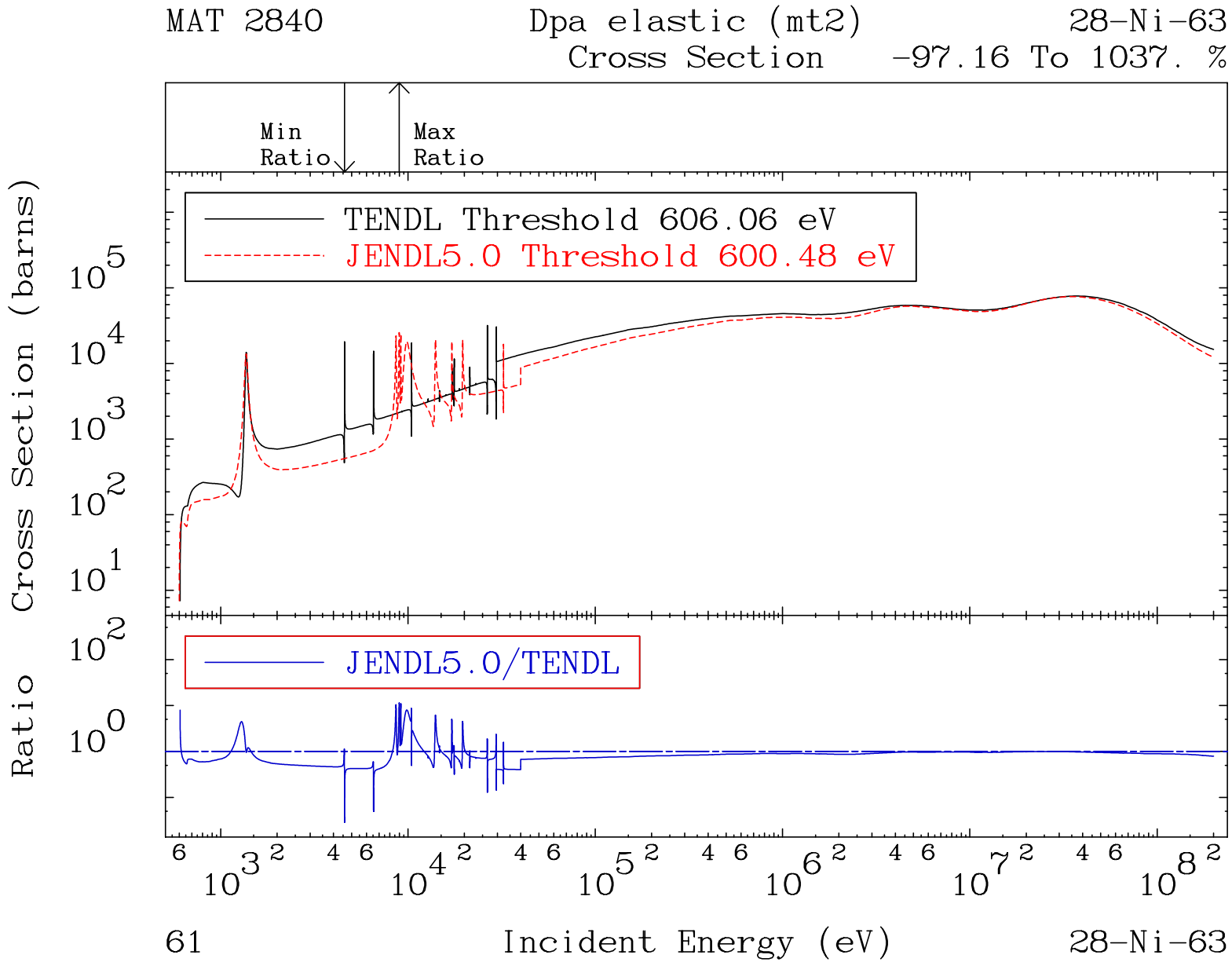

MAT 2840 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-63
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
3.0
2.0
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
Incident Energy (eV)
56
28-Ni-63

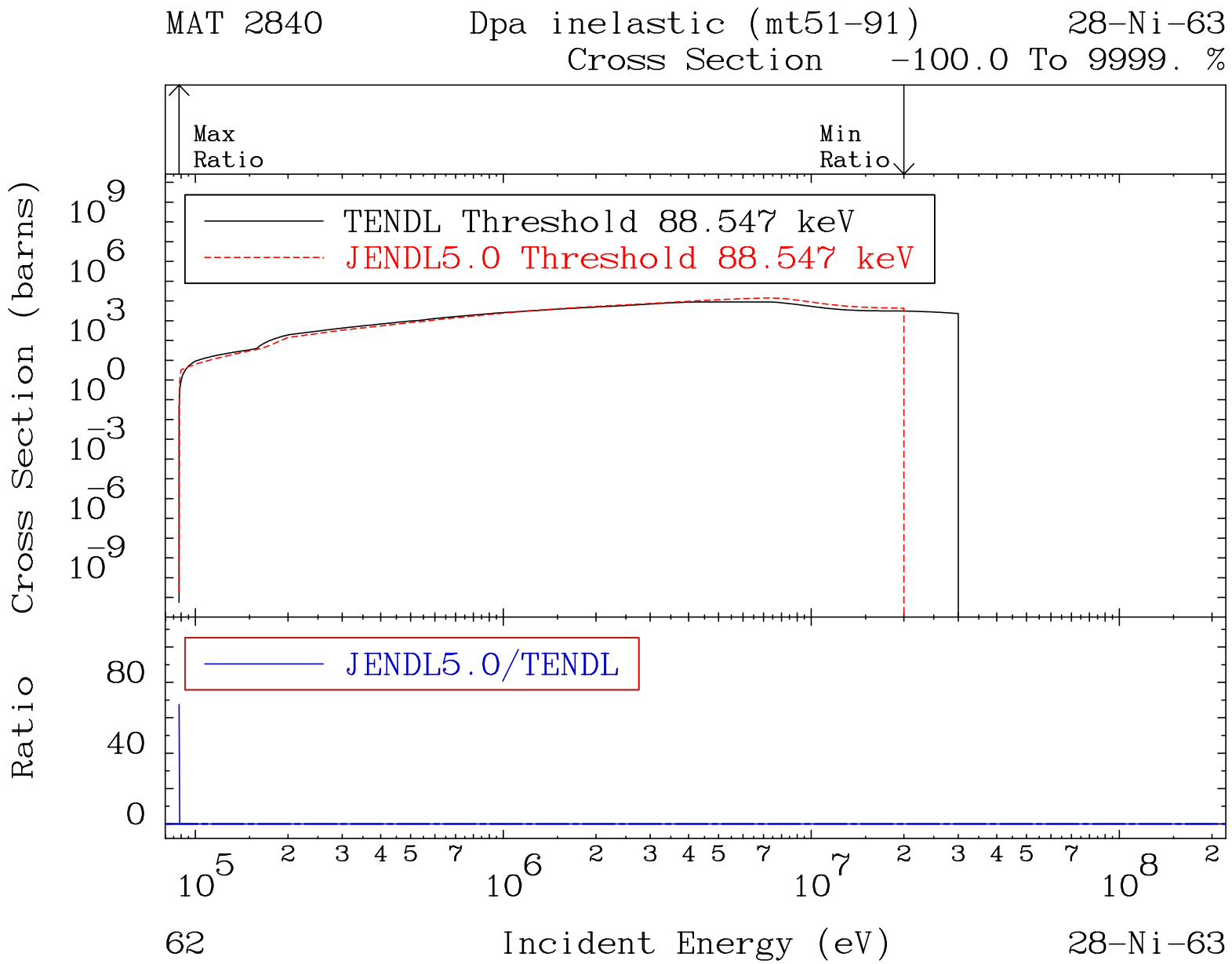

MAT 2840
Kerma capture (mt102)
28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
57
28-Ni-63

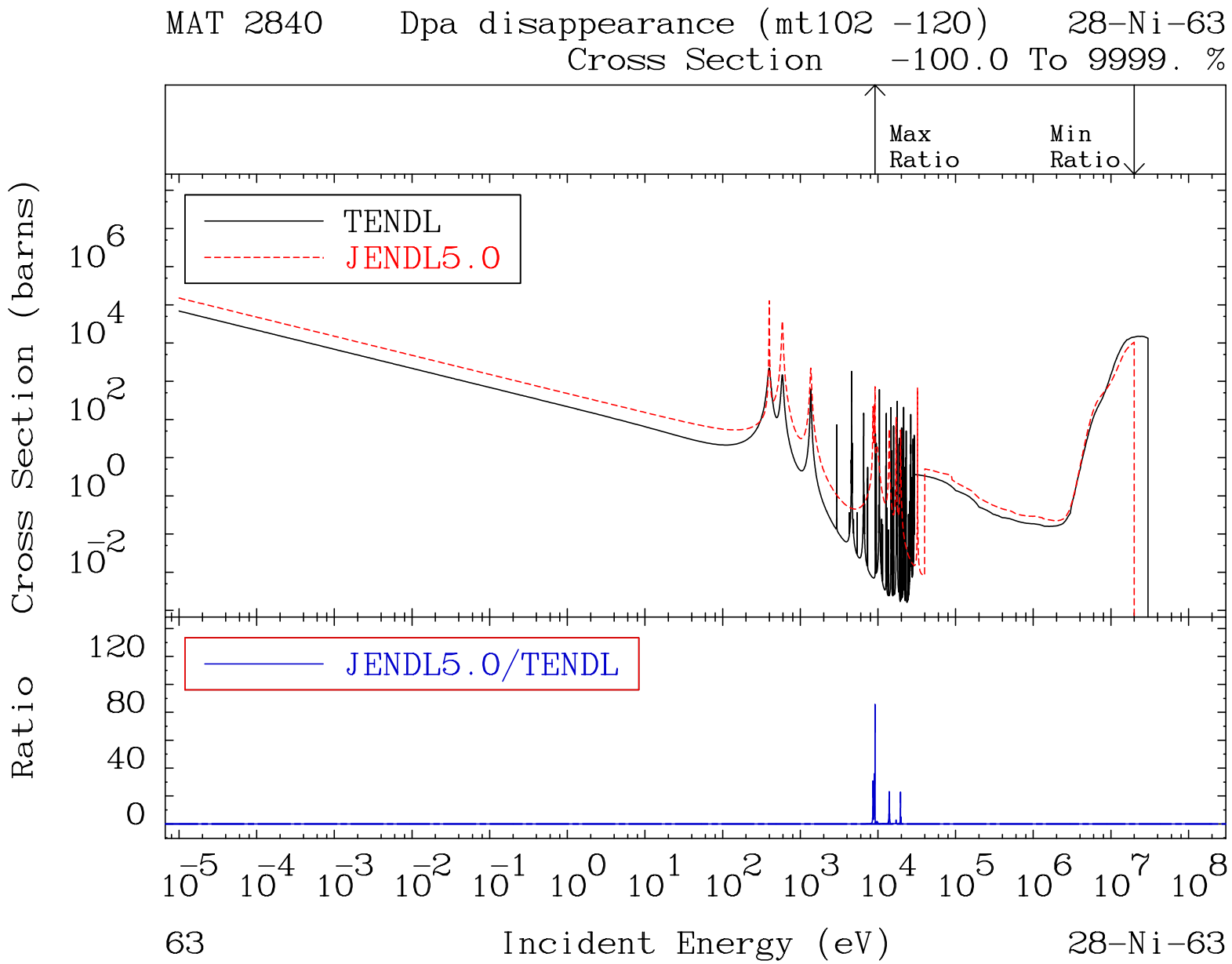

MAT 2840
Total photon (eV-barns)
28-Ni-63
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
28-Ni-63

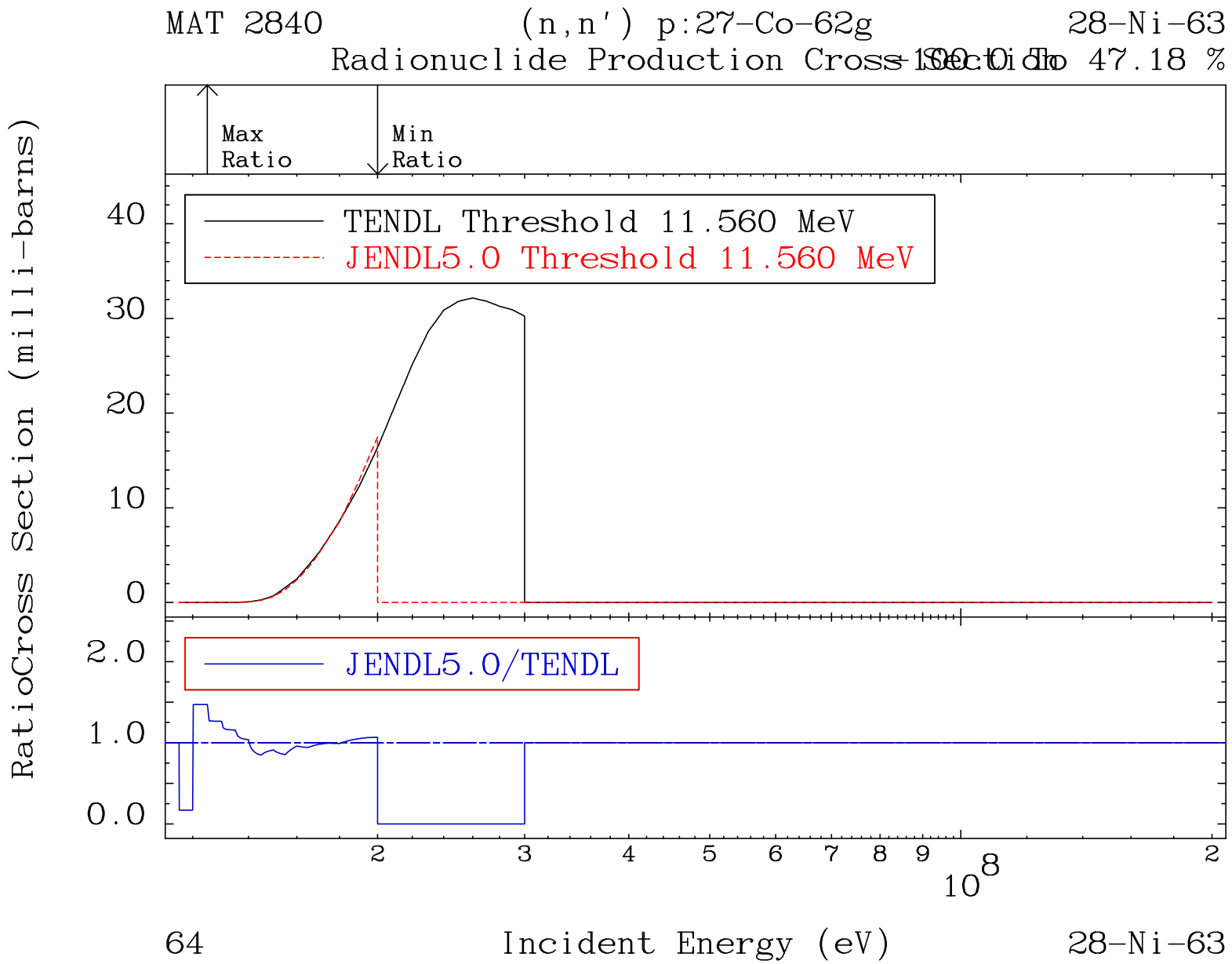

MAT 2840 Total kinematic kerma (high limit) 28-Ni-63
Cross Section -97.41 To 1049. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
28-Ni-63

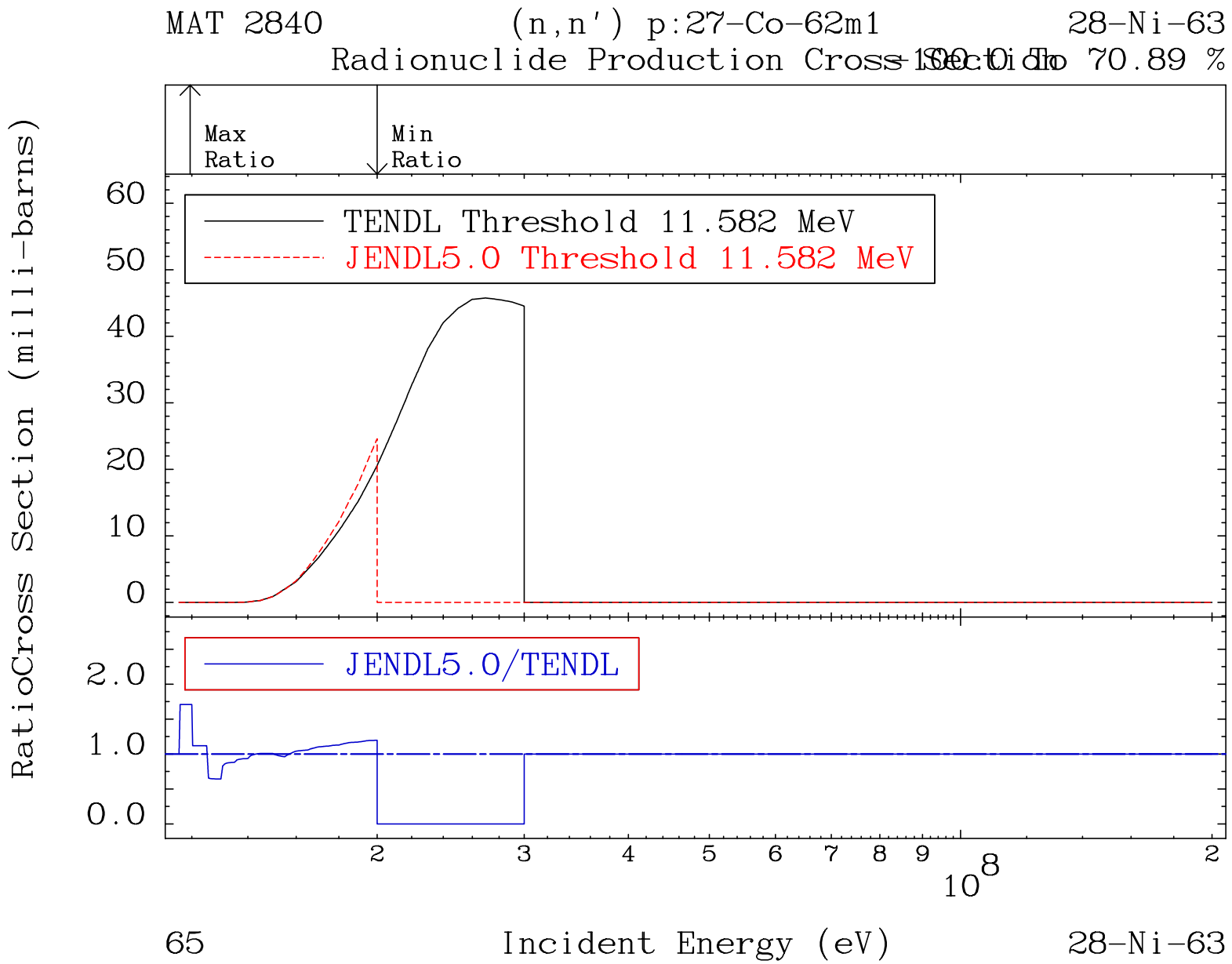

MAT 2840
Dpa total (eV-barns)
28-Ni-63
Cross Section -97.39 To 5745. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
60
28-Ni-63

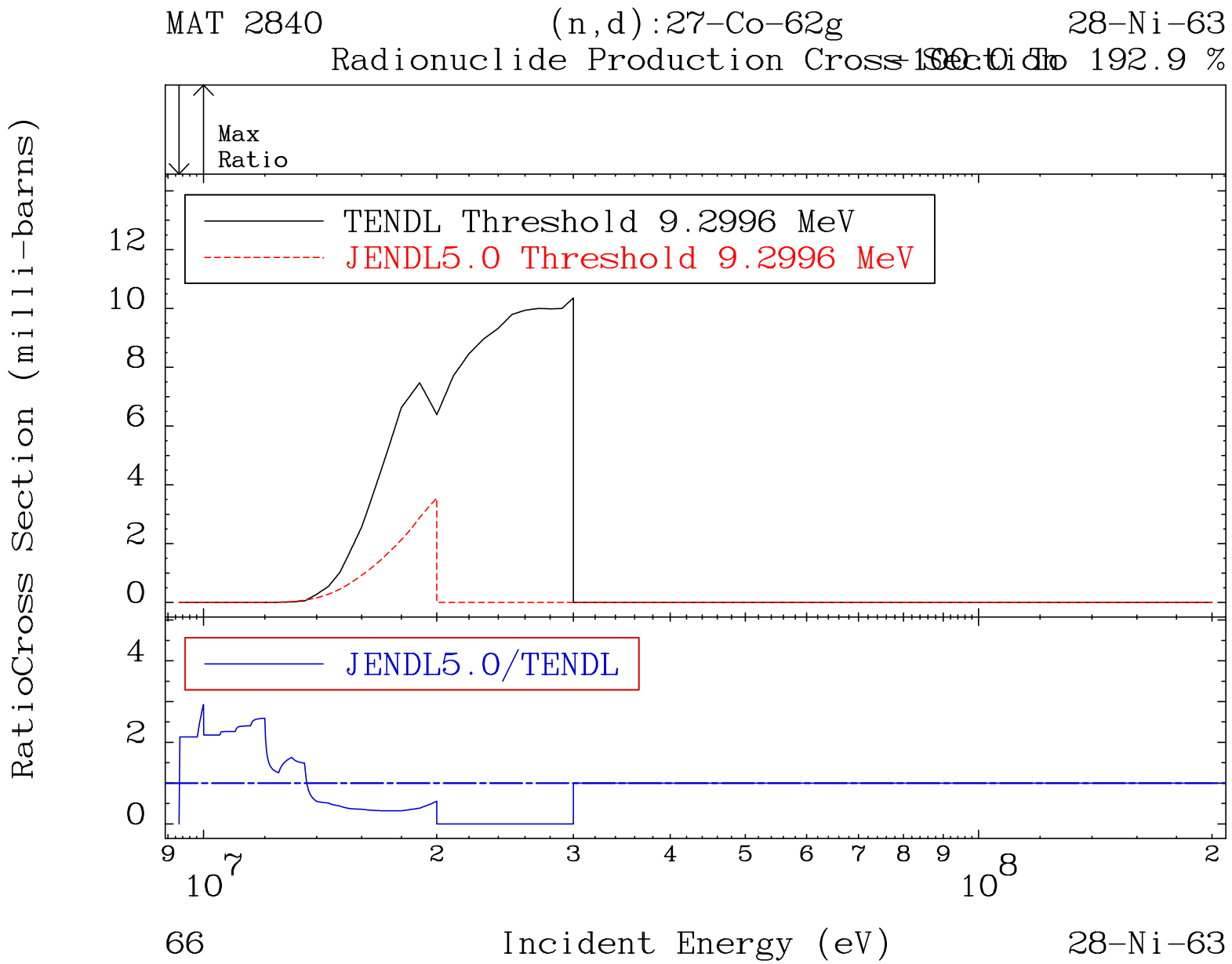

MAT 2840
Dpa elastic (mt2)
Cross Section
28-Ni-63
-97.16 To 1037. %
Min Ratio
Max Ratio
TENDL Threshold 606.06 eV
JENDL5.0 Threshold 600.48 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
28-Ni-63

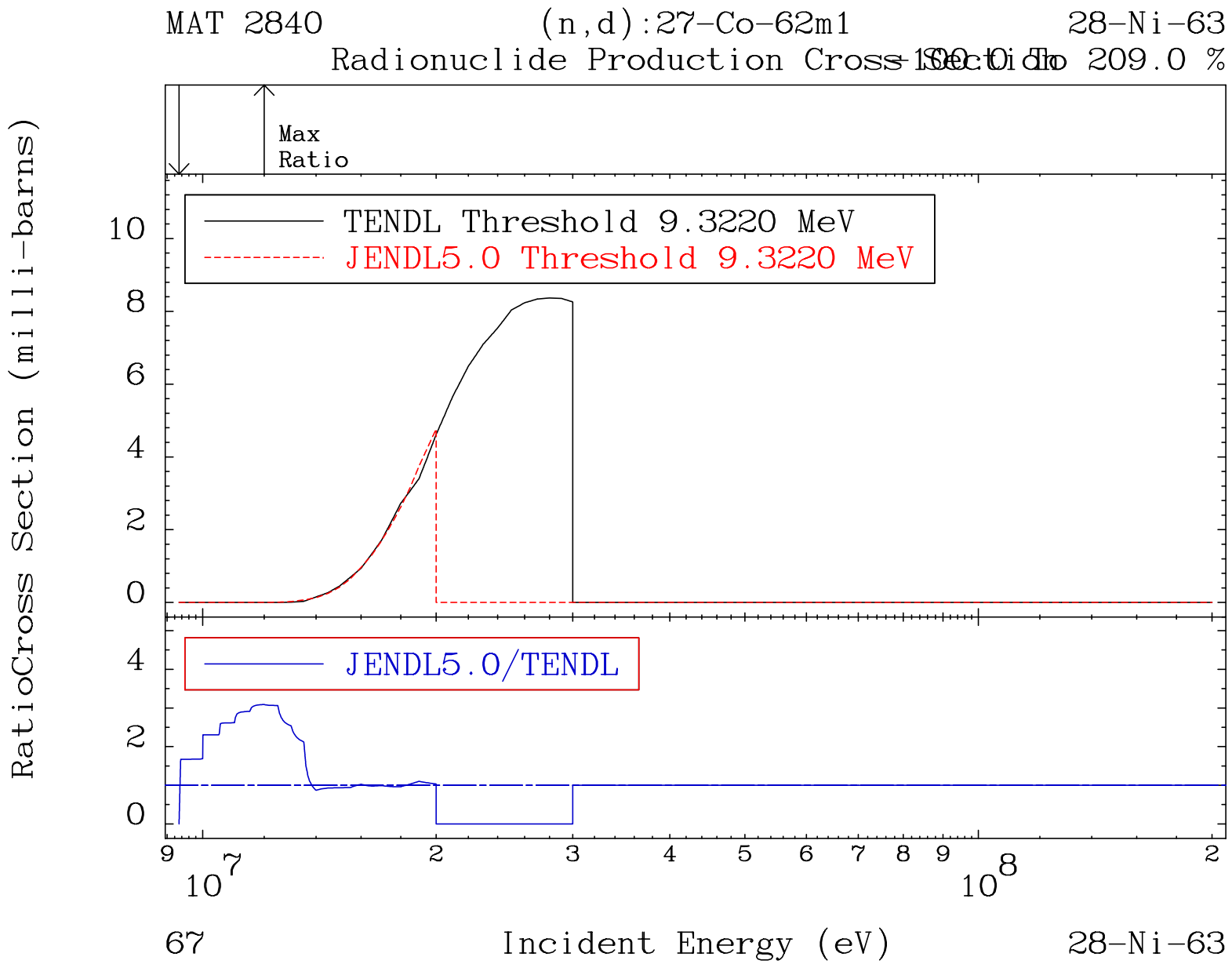

MAT 2840
Dpa inelastic (mt51-91)
28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 88.547 keV
JENDL5.0 Threshold 88.547 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
62
28-Ni-63

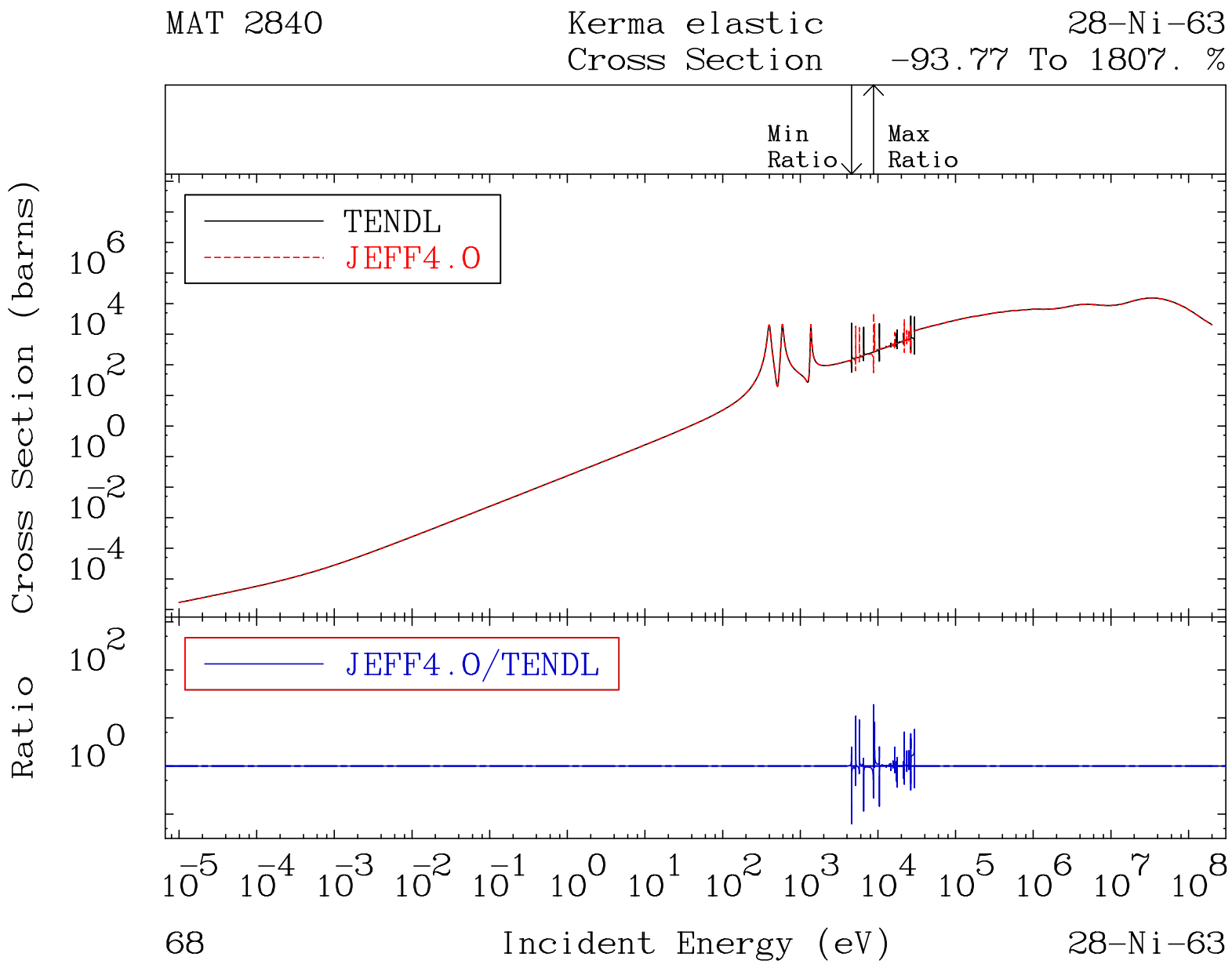

MAT 2840 Dpa disappearance (mt102 -120) 28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
63
28-Ni-63

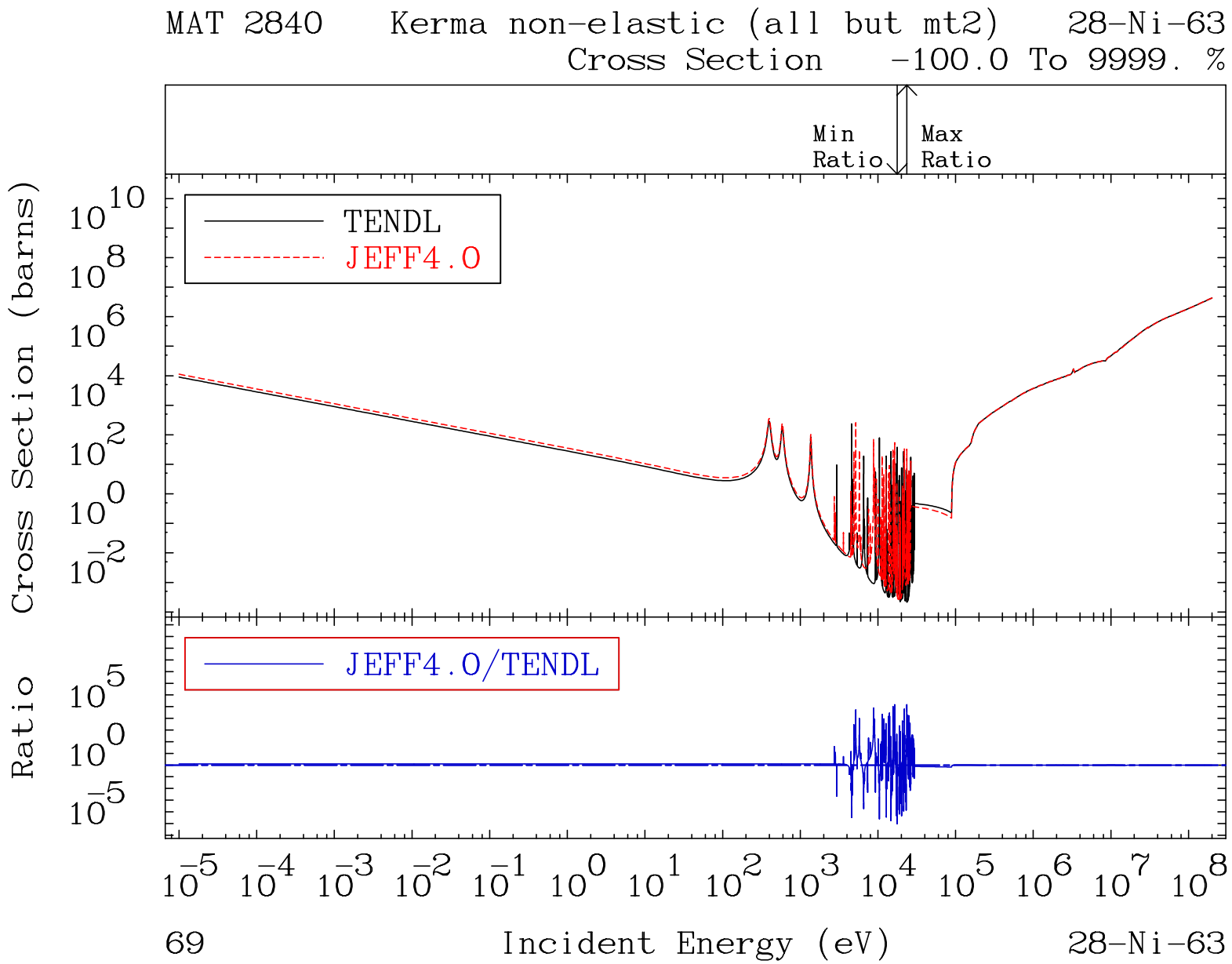

MAT 2840
(n,n') p:27-Co-62g
28-Ni-63
Radionuclide Production Cross Section To 47.18 %
Max Ratio
Min Ratio
TENDL Threshold 11.560 MeV
JENDL5.0 Threshold 11.560 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
64
Incident Energy (eV)
28-Ni-63

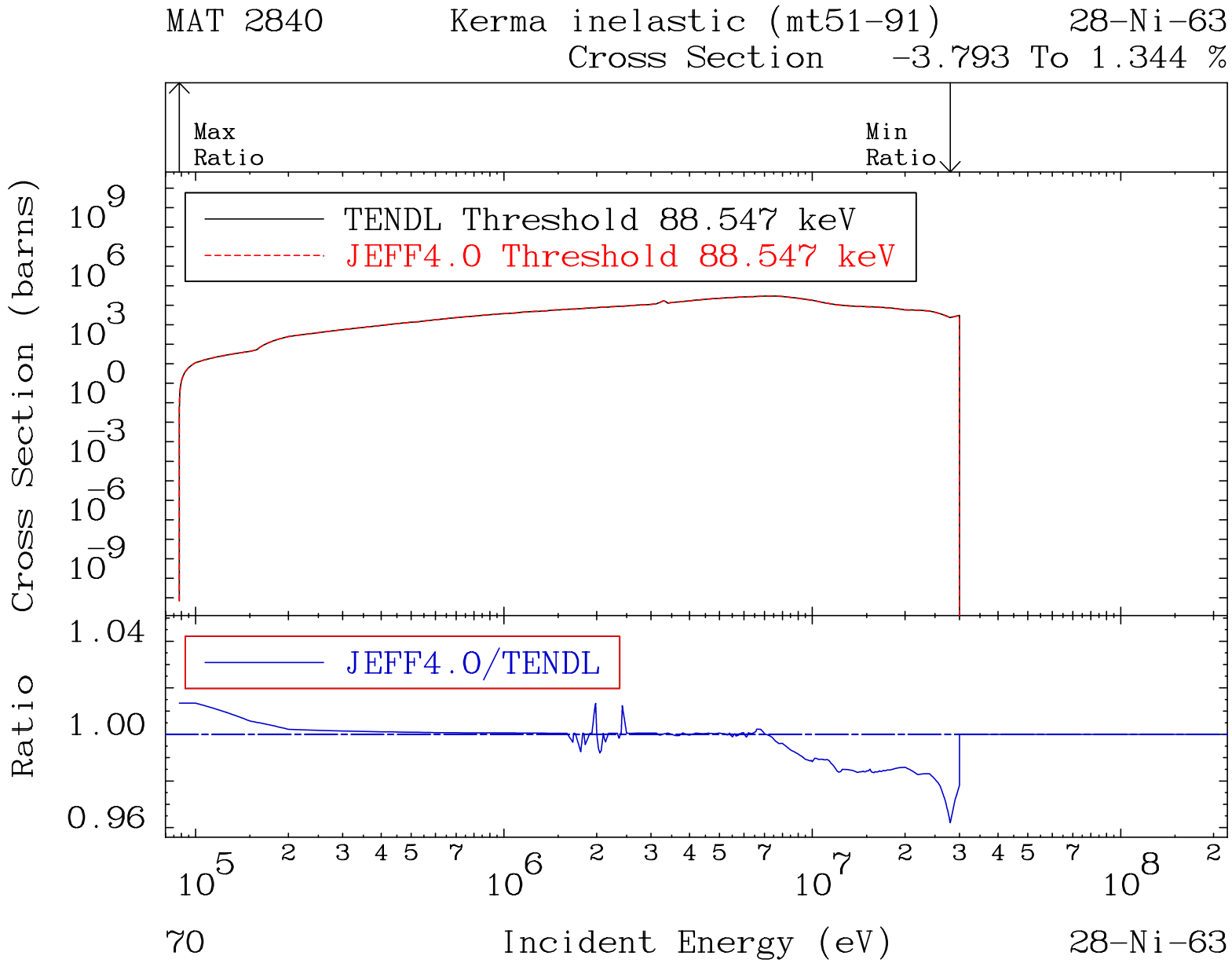

MAT 2840
(n,n') p:27-Co-62m1
28-Ni-63
Radionuclide Production Cross Section To 70.89 %
Max Ratio
Min Ratio
TENDL Threshold 11.582 MeV
JENDL5.0 Threshold 11.582 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
65
28-Ni-63

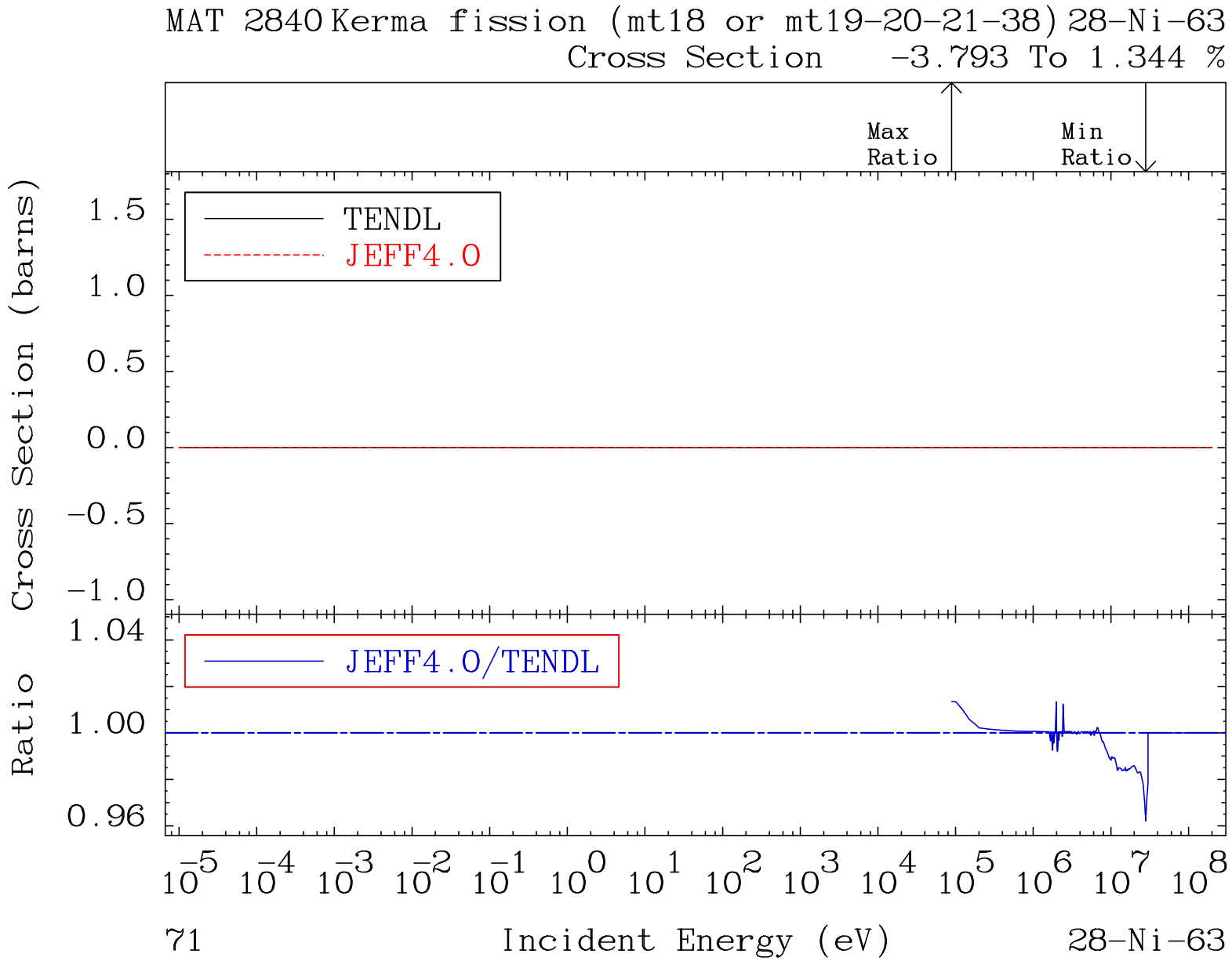

MAT 2840
(n,d):27-Co-62g
28-Ni-63
Radionuclide Production Cross Section To 192.9 %
Max
Ratio
TENDL Threshold 9.2996 MeV
JENDL5.0 Threshold 9.2996 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
66
28-Ni-63

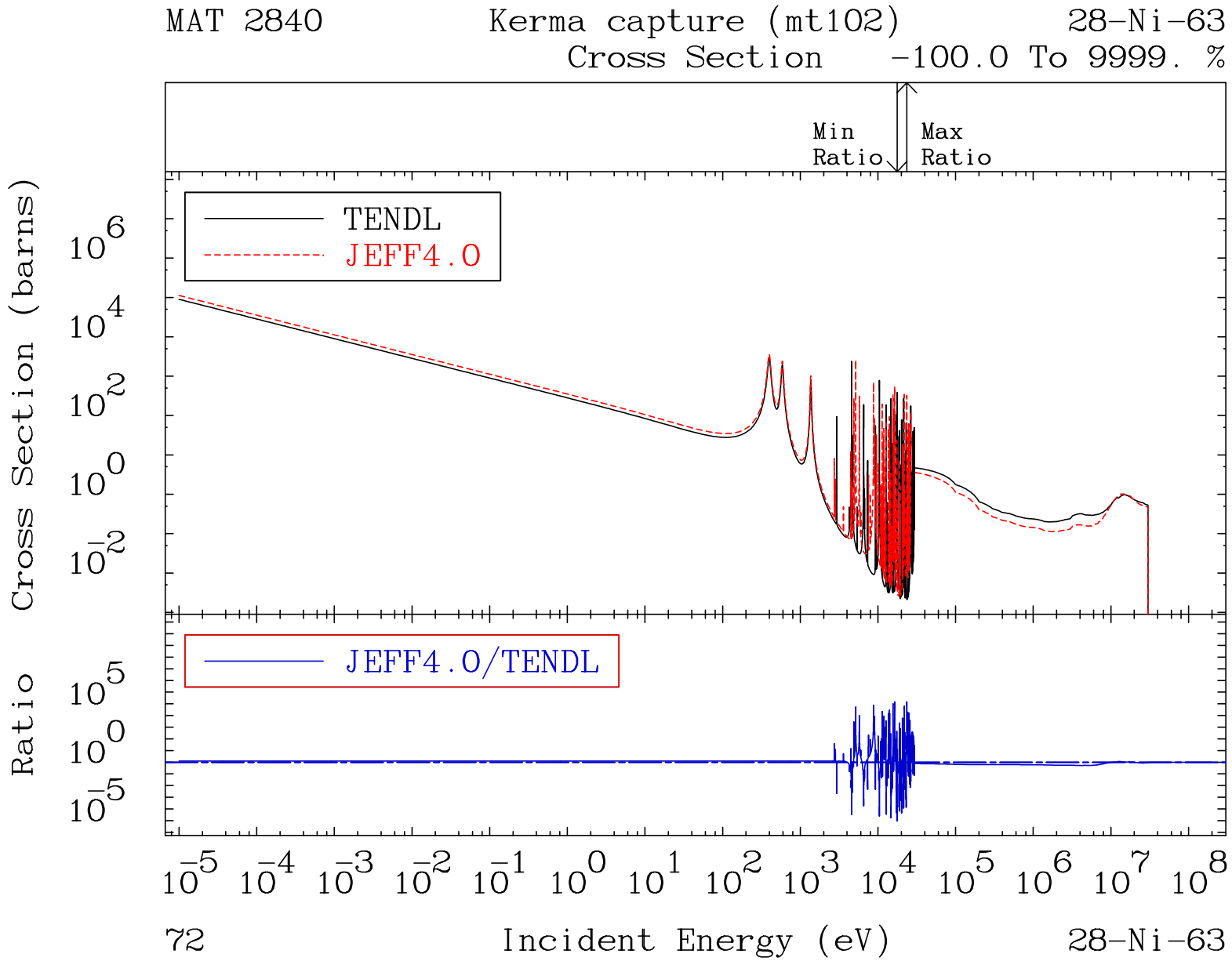

MAT 2840
(n,d):27-Co-62m1
28-Ni-63
Radionuclide Production Cross Section To 209.0 %
Max
Ratio
TENDL Threshold 9.3220 MeV
JENDL5.0 Threshold 9.3220 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
67
28-Ni-63

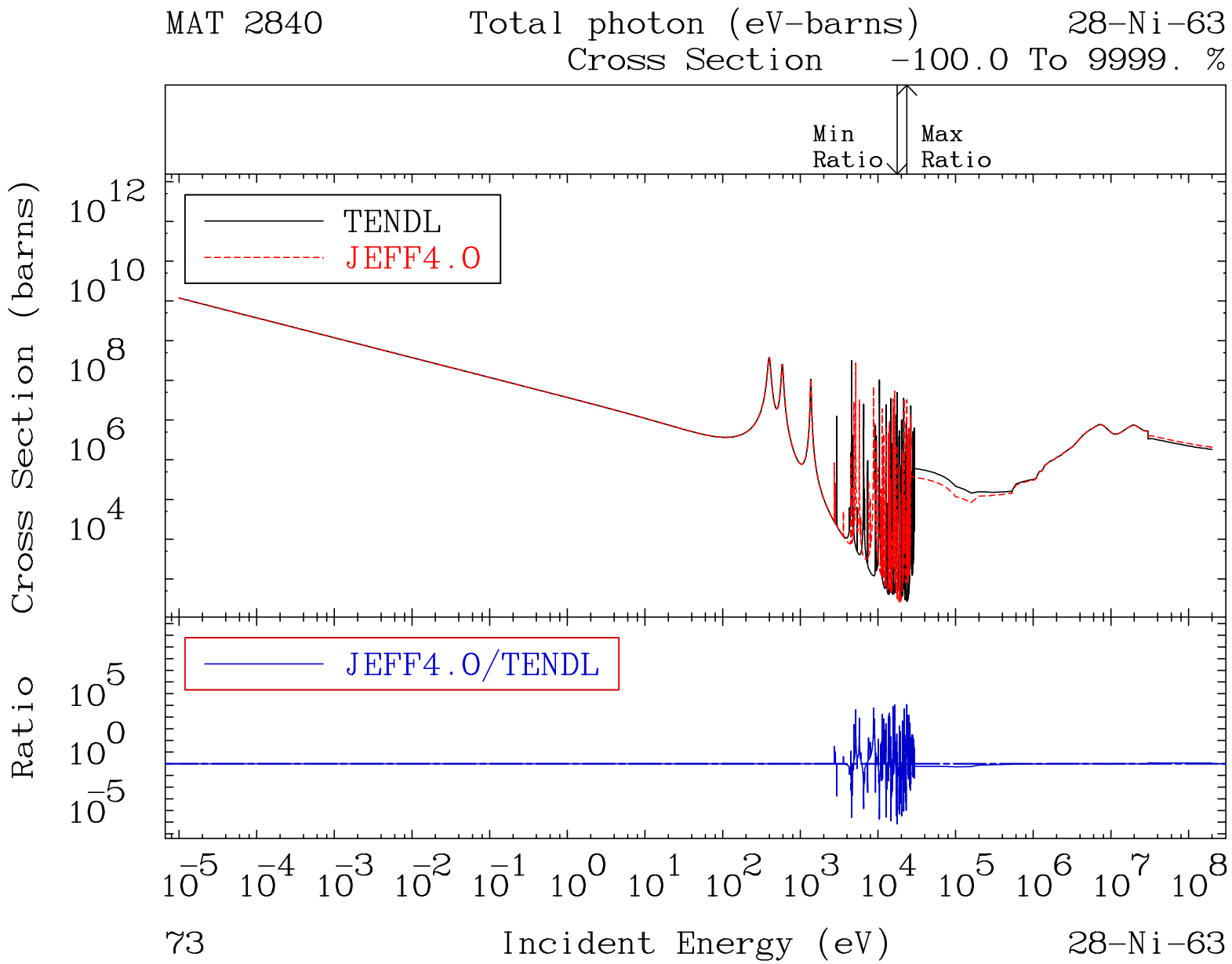

MAT 2840
Kerma elastic
Cross Section
28-Ni-63
-93.77 To 1807. %
Min Ratio
Max Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
68
28-Ni-63

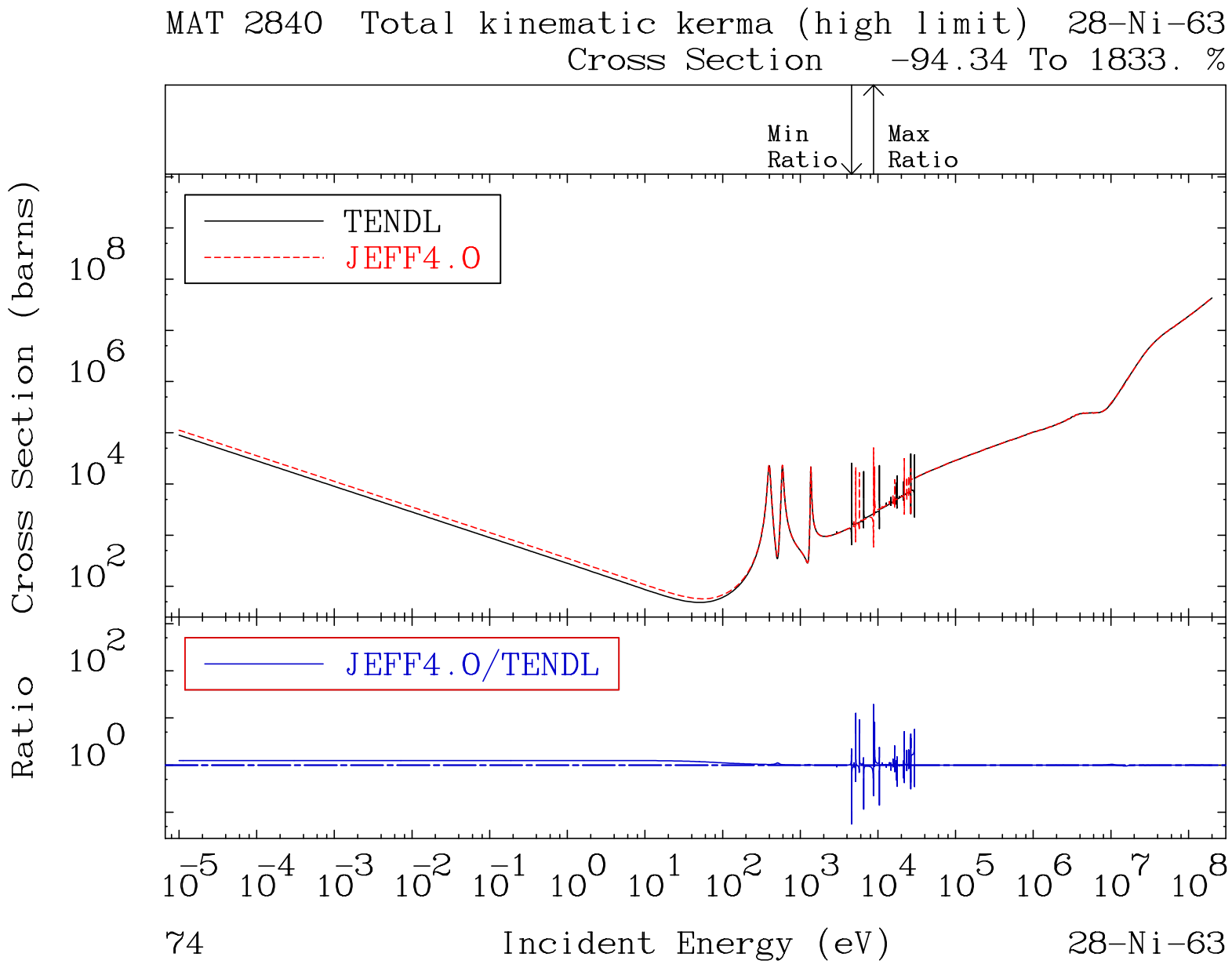

MAT 2840 Kerma non-elastic (all but mt2) 28-Ni-63
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
69
28-Ni-63

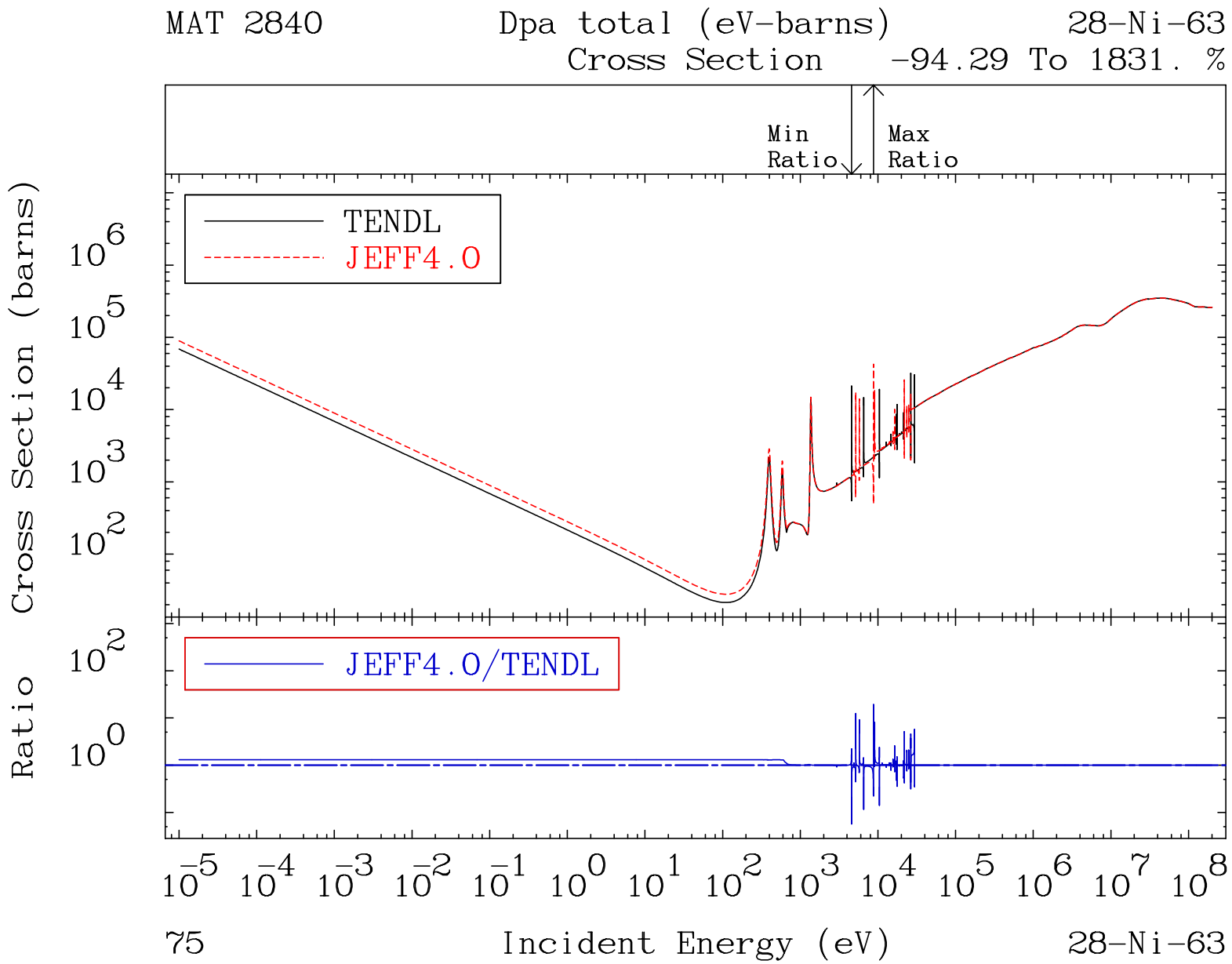

MAT 2840
Kerma inelastic (mt51-91)
28-Ni-63
Cross Section
-3.793 To 1.344 %
Max Ratio
Min Ratio
TENDL Threshold 88.547 keV
JEFF4.0 Threshold 88.547 keV
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
70
28-Ni-63

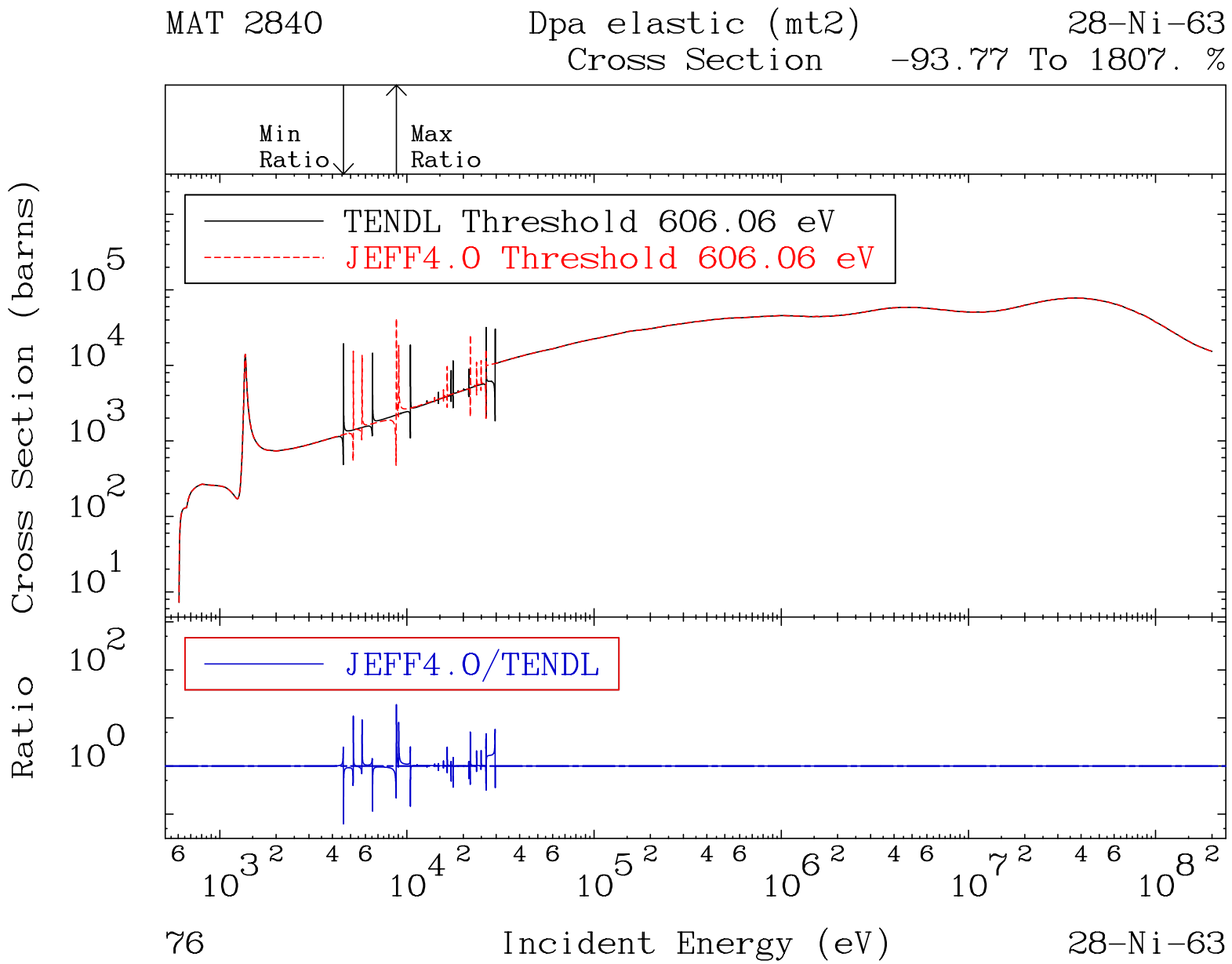

MAT 2840 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-63
Cross Section -3.793 To 1.344 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
1.04
1.00
0.96
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
71
Incident Energy (eV)
28-Ni-63

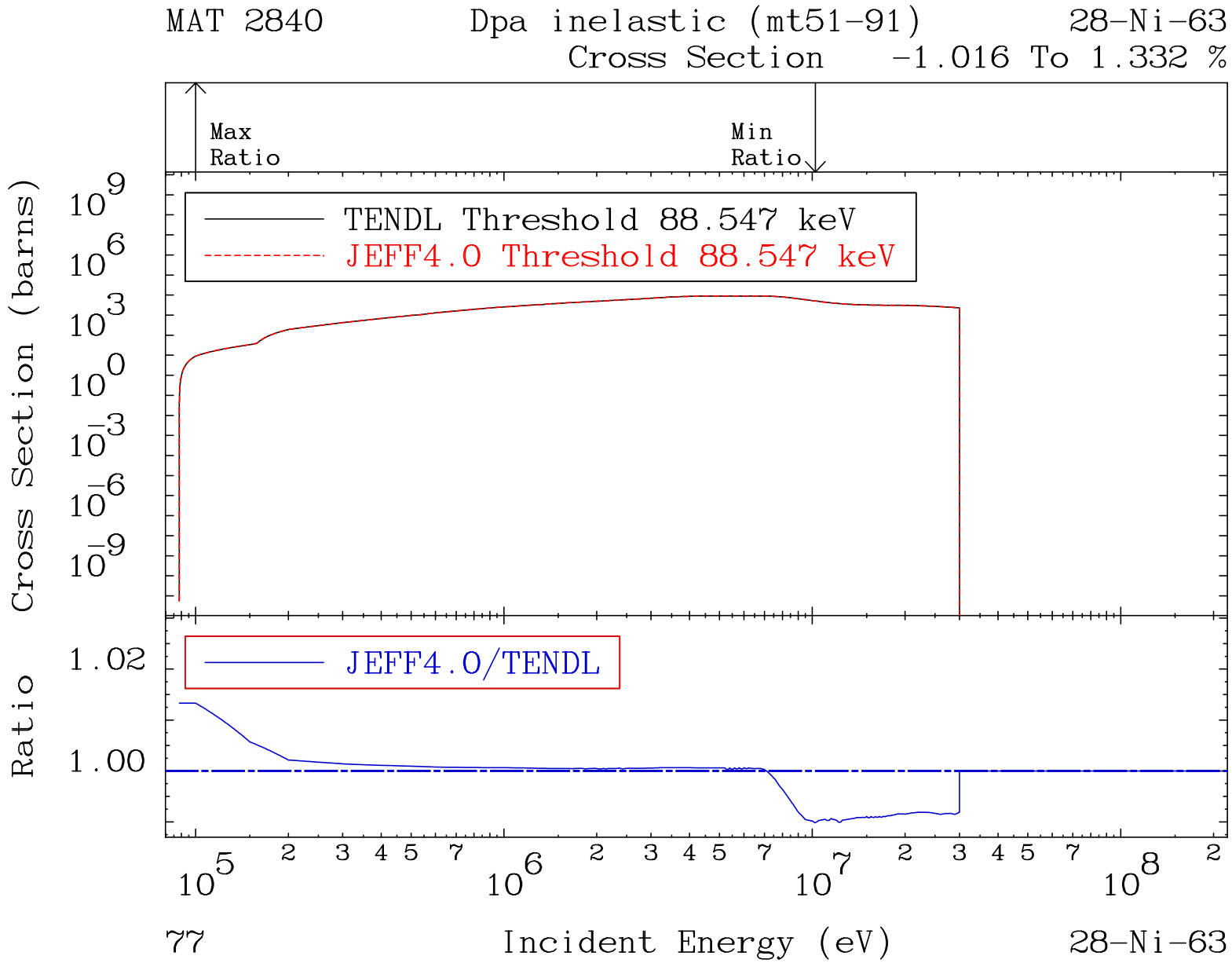

MAT 2840
Kerma capture (mt102)
28-Ni-63
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
72
28-Ni-63

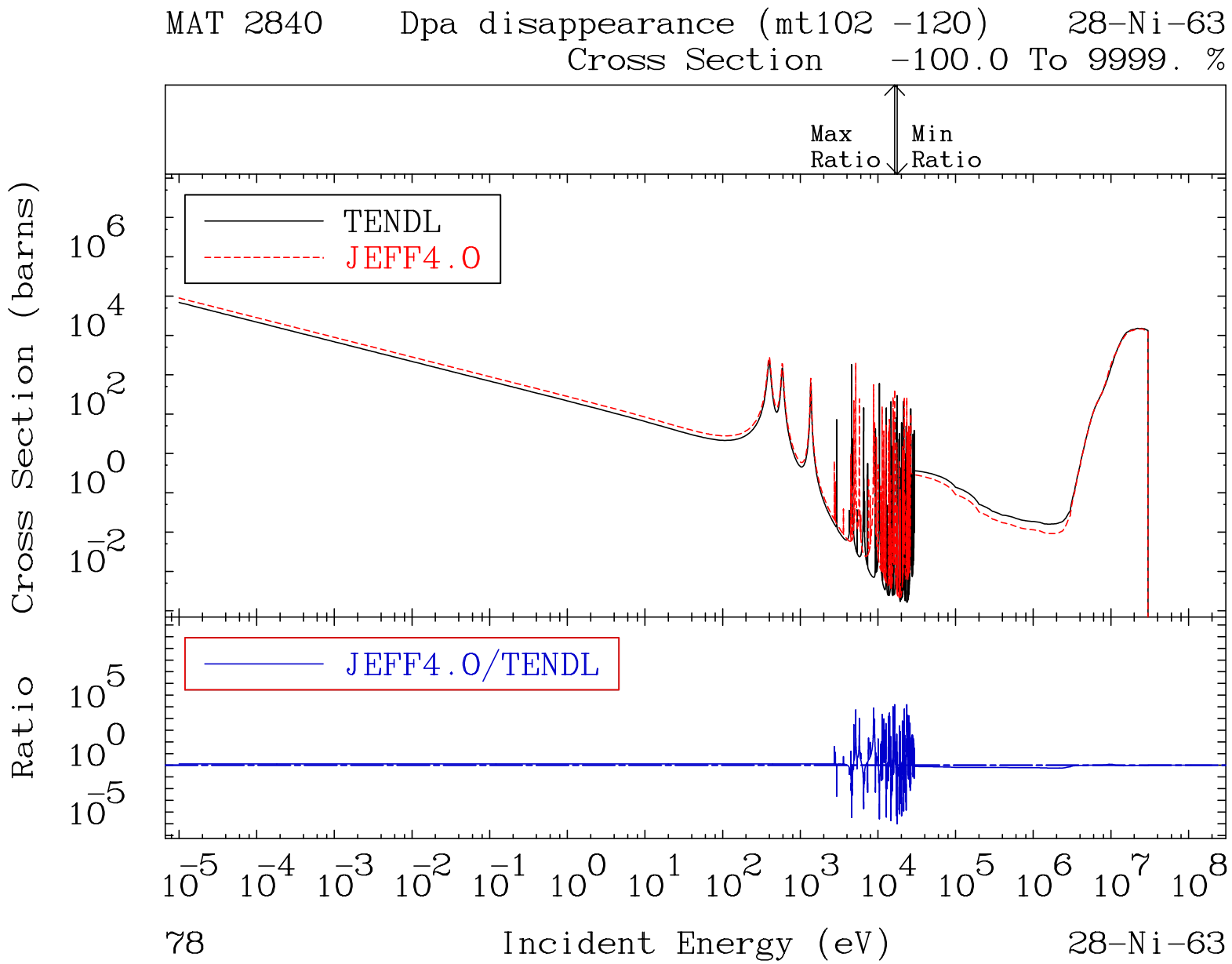

MAT 2840
Total photon (eV-barns)
28-Ni-63
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
73
28-Ni-63

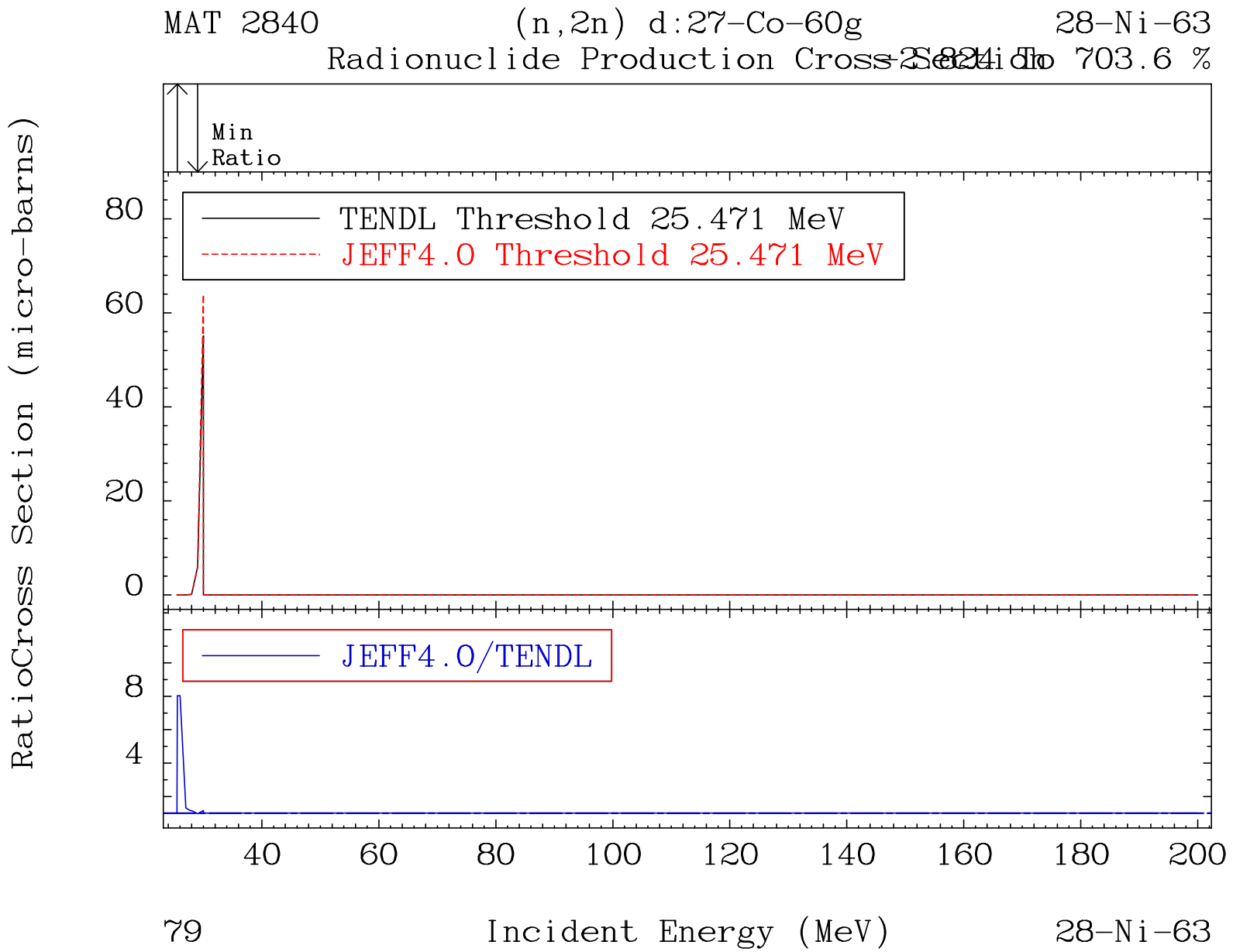

MAT 2840 Total kinematic kerma (high limit) 28-Ni-63
Cross Section -94.34 To 1833. %
Min Ratio
Max Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
74
28-Ni-63

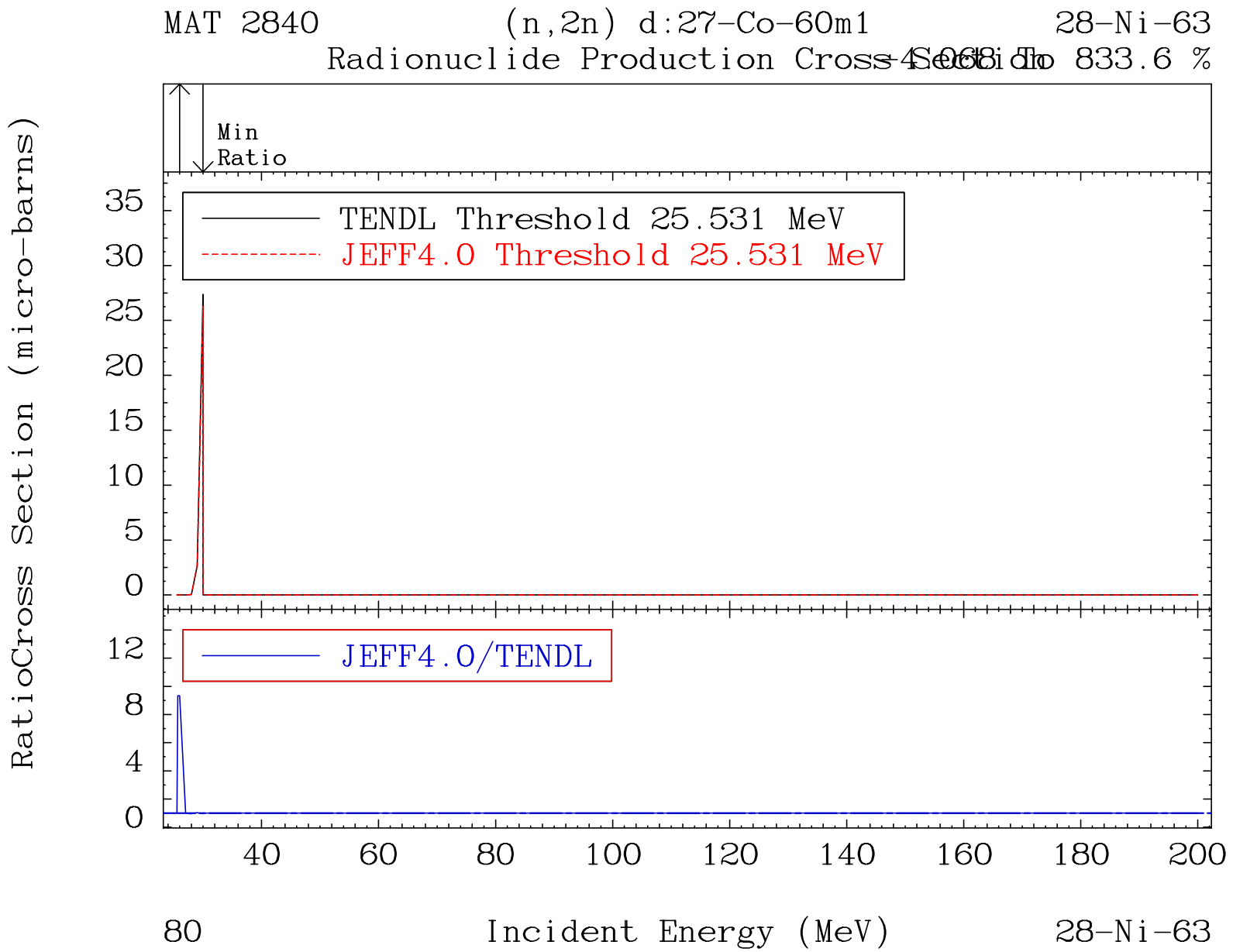

MAT 2840
Dpa total (eV-barns)
28-Ni-63
Cross Section
-94.29 To 1831. %
Min Ratio
Max Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
75
28-Ni-63

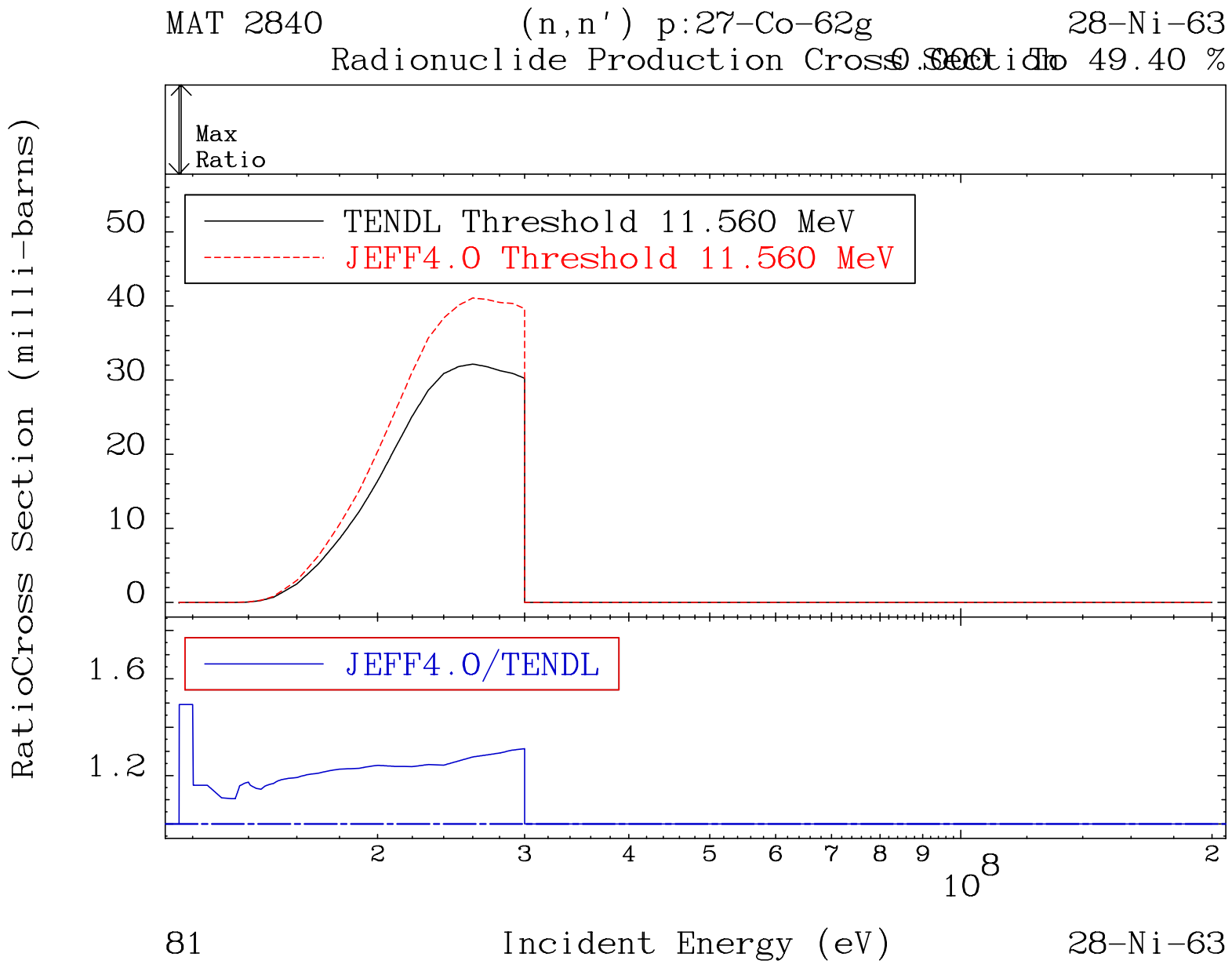

MAT 2840
Dpa elastic (mt2)
Cross Section
28-Ni-63
-93.77 To 1807. %
Min Ratio
Max Ratio
TENDL Threshold 606.06 eV
JEFF4.0 Threshold 606.06 eV
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
76
28-Ni-63

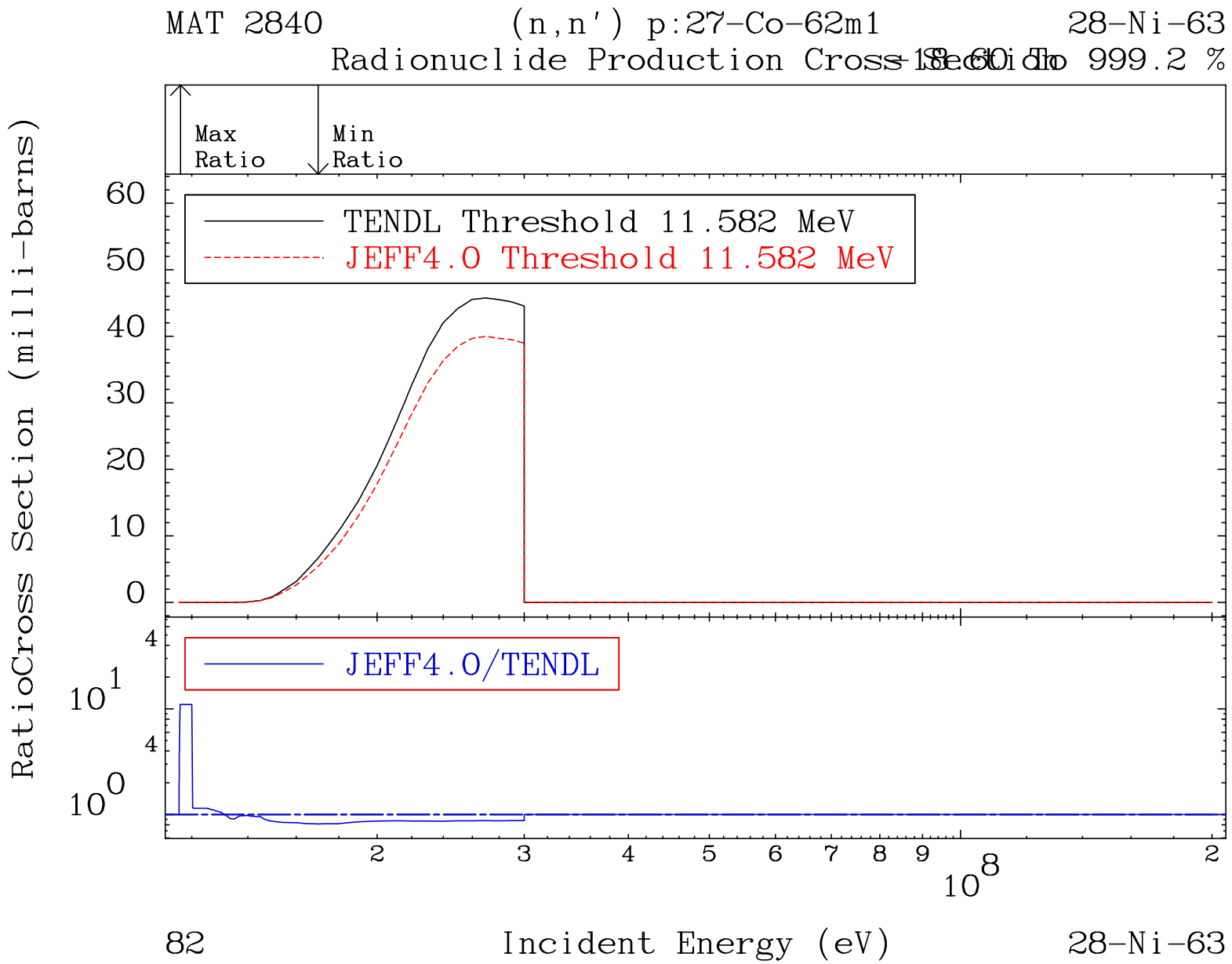

MAT 2840
Dpa inelastic (mt51-91)
28-Ni-63
Cross Section
-1.016 To 1.332 %
Max Ratio
Min Ratio
TENDL Threshold 88.547 keV
JEFF4.0 Threshold 88.547 keV
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
77
28-Ni-63

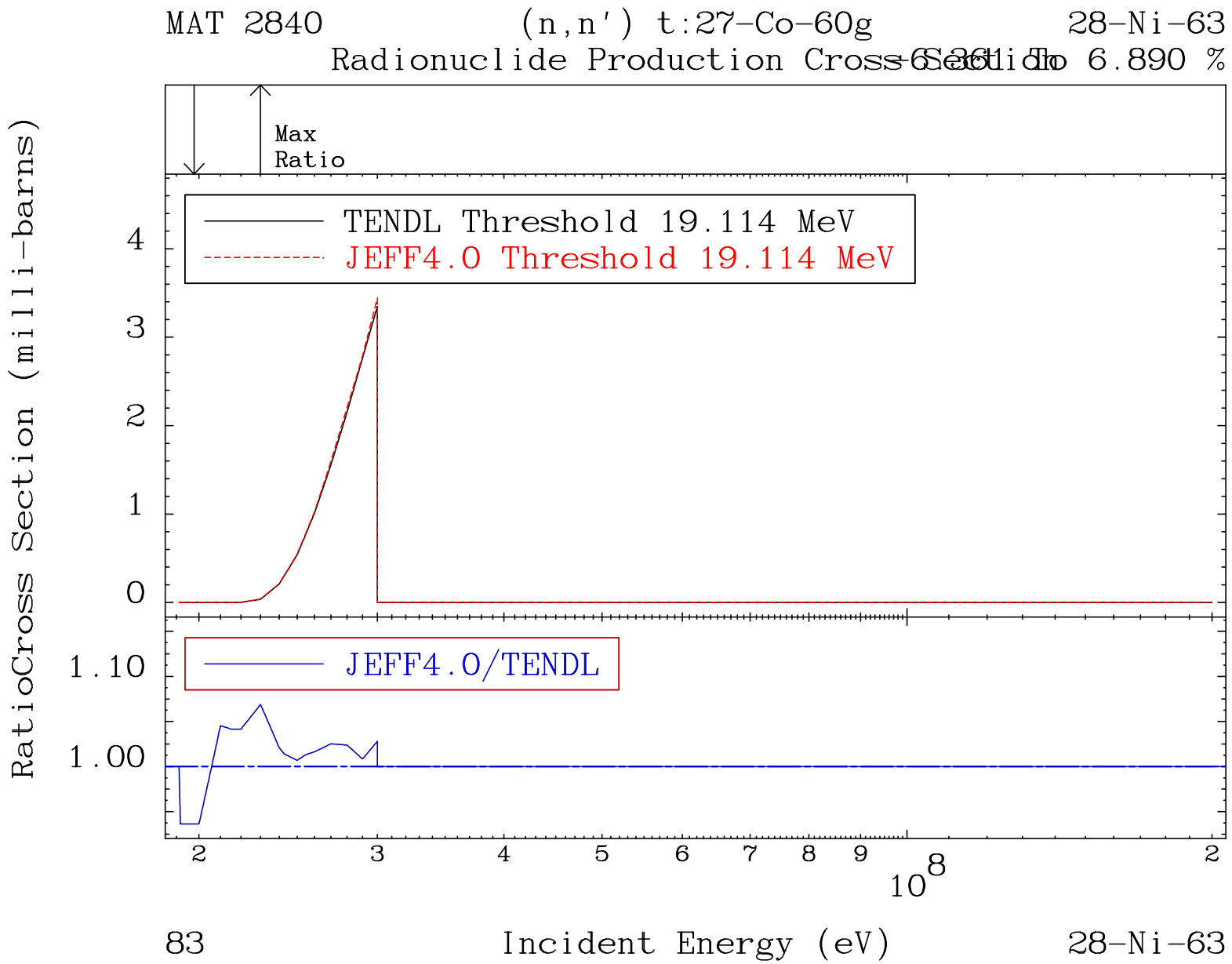

MAT 2840 Dpa disappearance (mt102 -120) 28-Ni-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
78
28-Ni-63

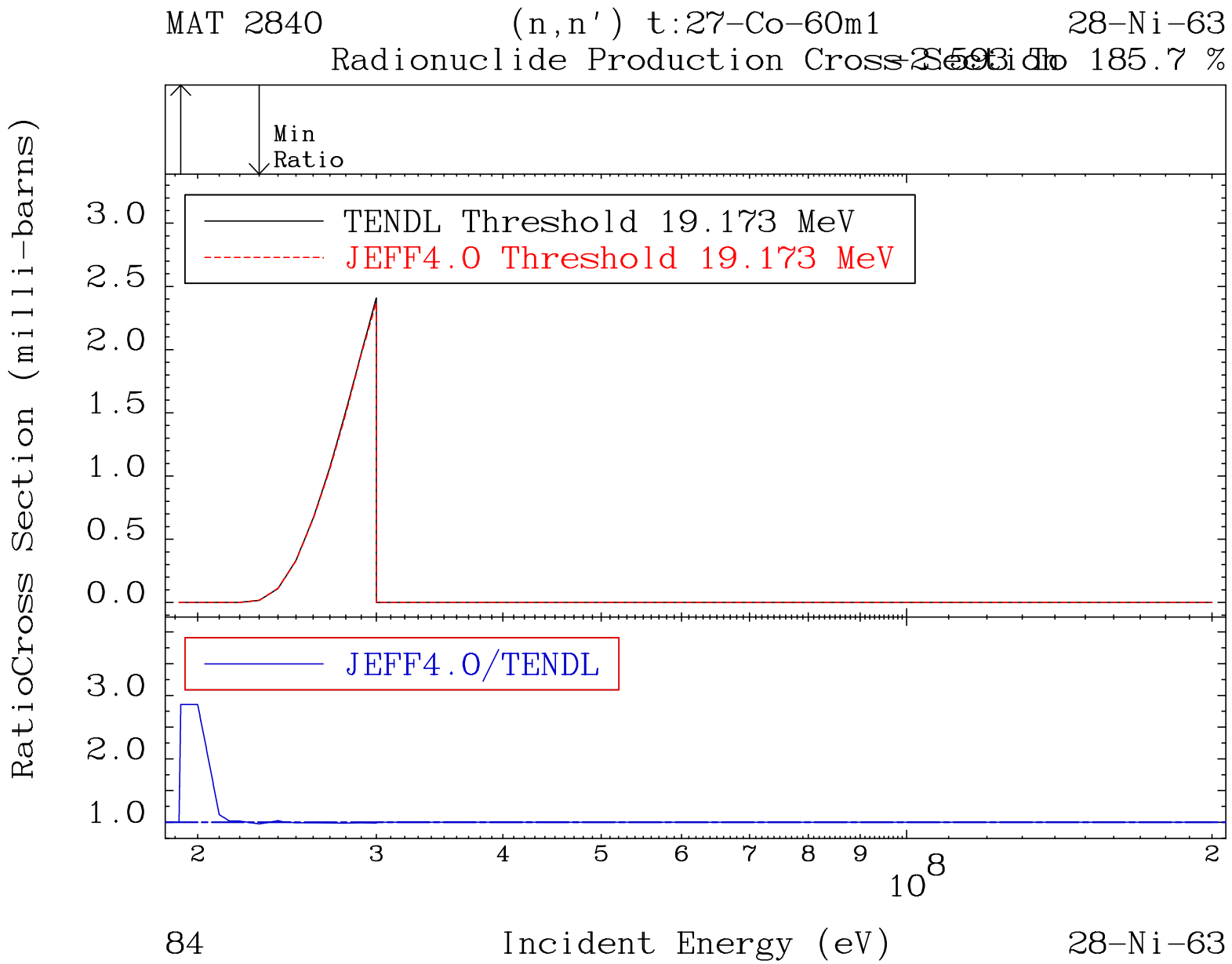

MAT 2840
(n,2n) d:27-Co-60g
28-Ni-63
Radionuclide Production Cross Section
Min
Ratio
TENDL Threshold 25.471 MeV
JEFF4.0 Threshold 25.471 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (MeV)
79
28-Ni-63

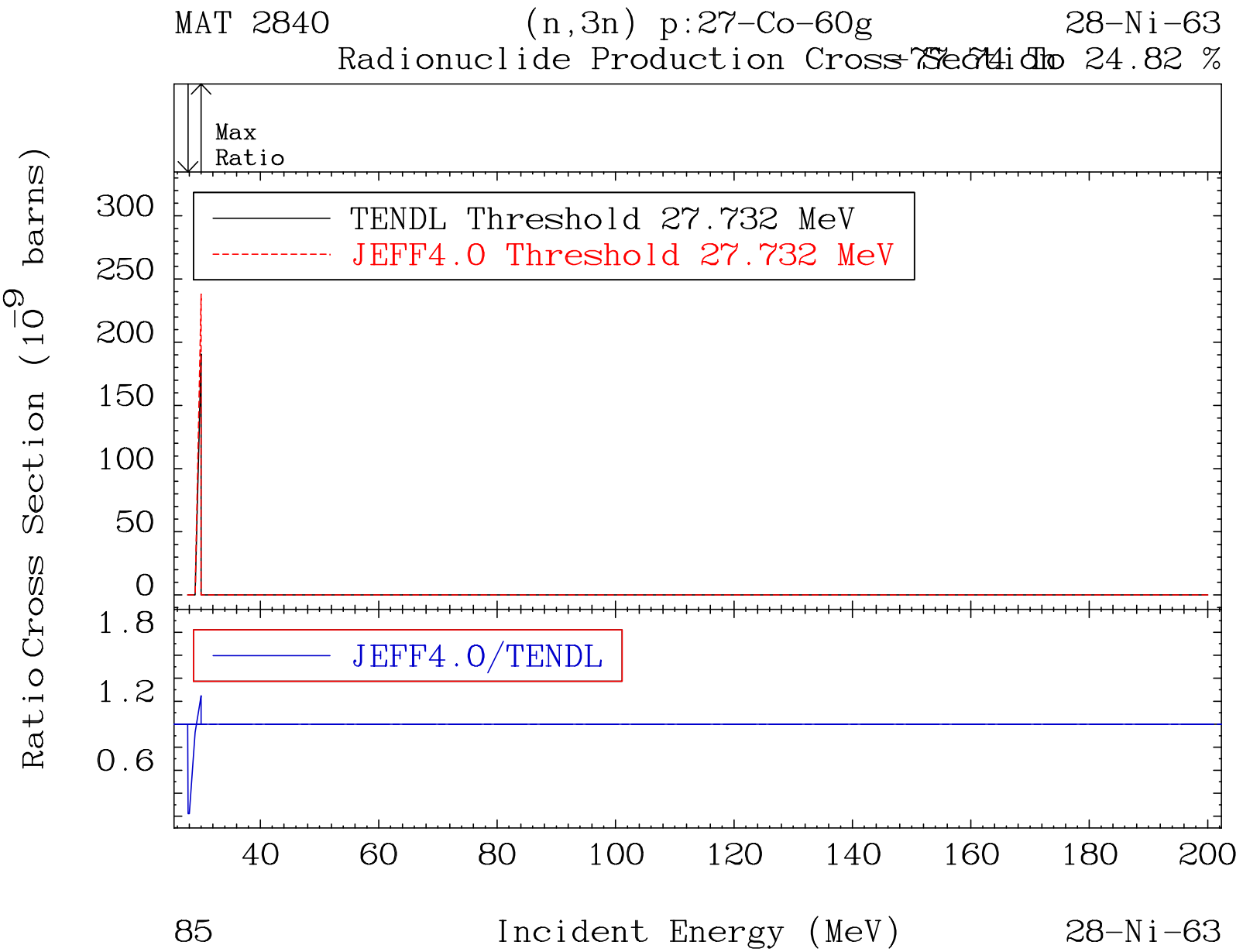

MAT 2840
(n,2n) d:27-Co-60m1
28-Ni-63
Radionuclide Production Cross Section
Min
Ratio
TENDL Threshold 25.531 MeV
JEFF4.0 Threshold 25.531 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (MeV)
28-Ni-63

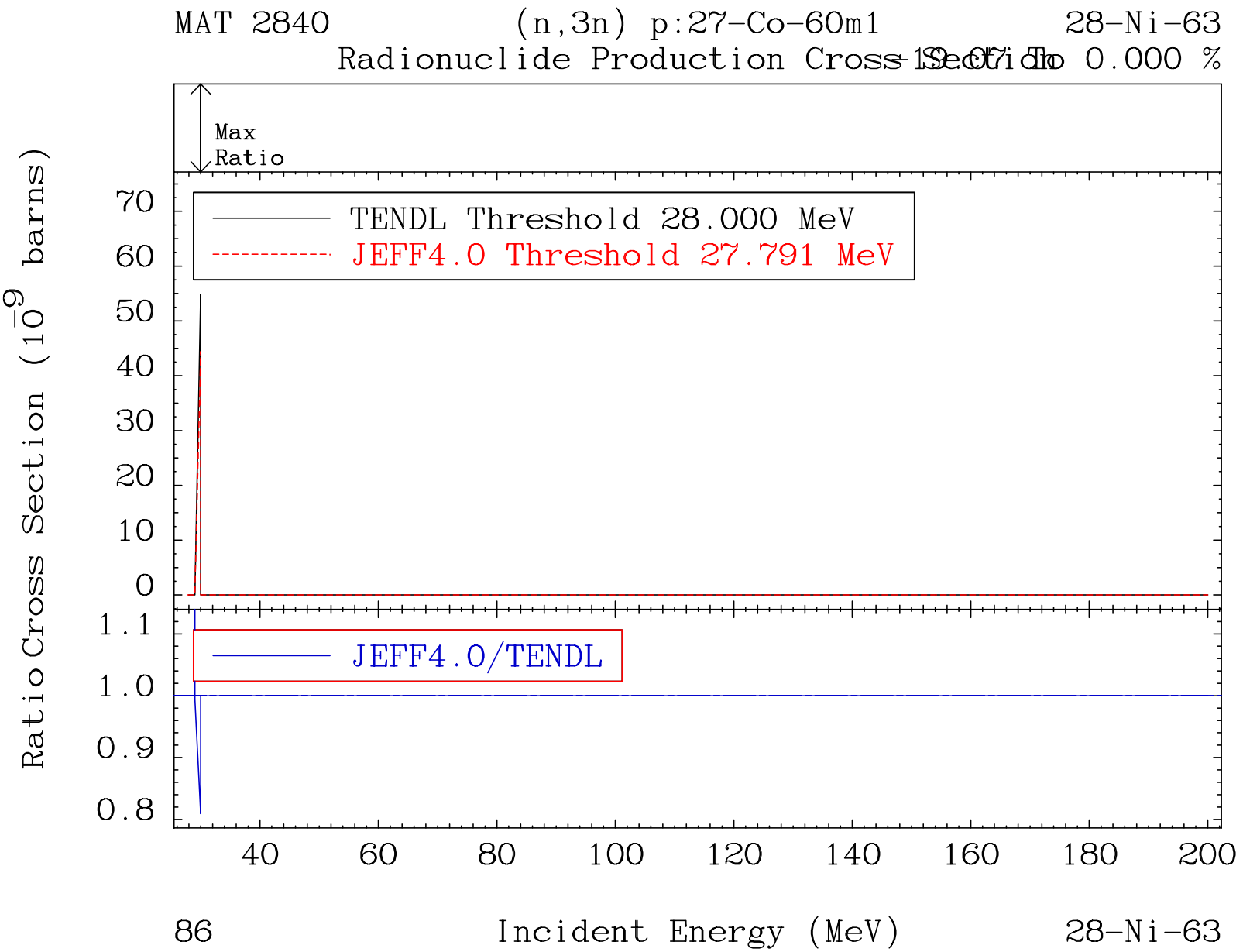

MAT 2840
(n,n') p:27-Co-62g
28-Ni-63
Radionuclide Production Cross Section
0.000 To 49.40 %
Max
Ratio
TENDL Threshold 11.560 MeV
JEFF4.0 Threshold 11.560 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
1.6
1.2
2
3
4
5
6
7
8
9
2
10^8
81
Incident Energy (eV)
28-Ni-63

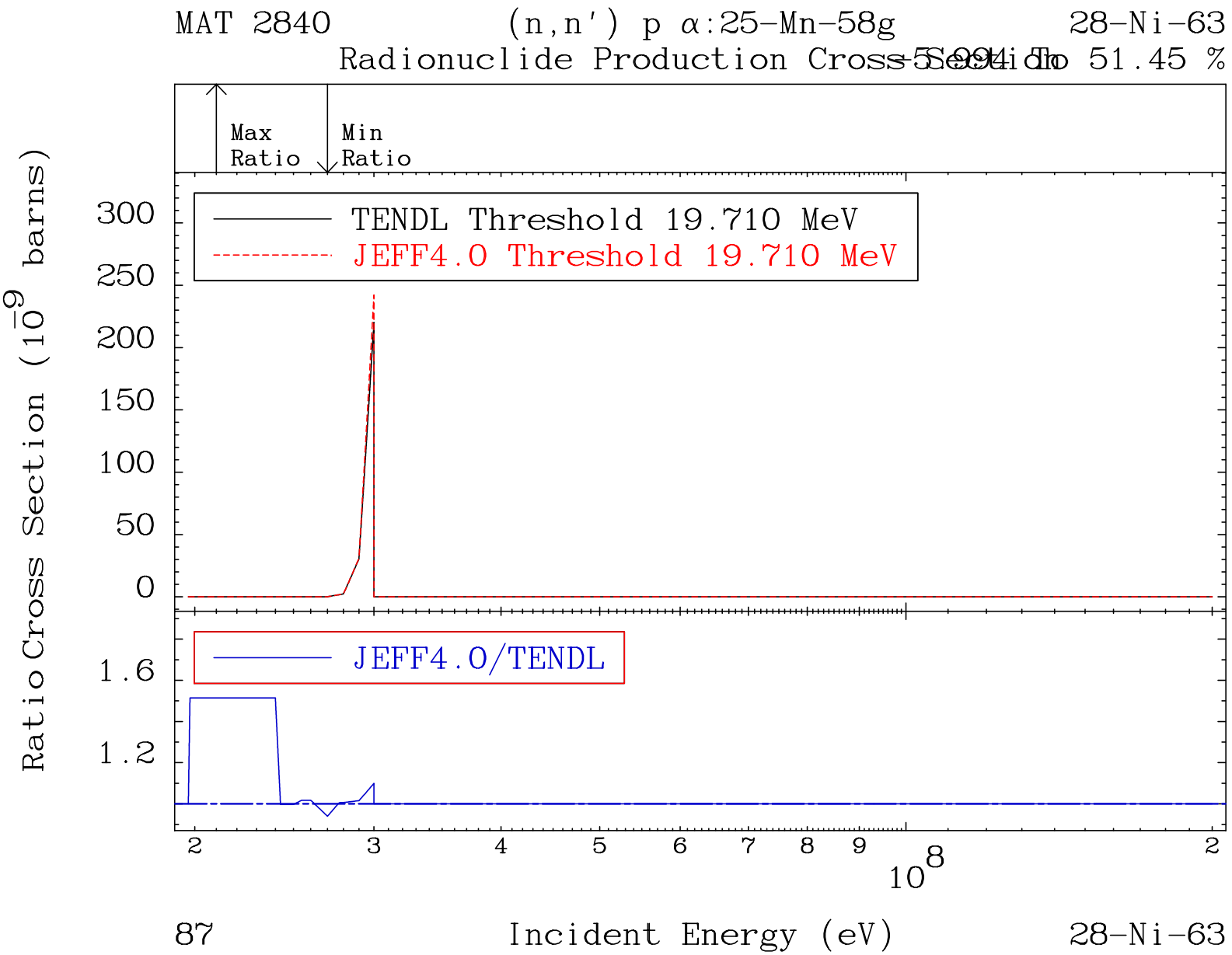

MAT 2840
(n,n') p:27-Co-62m1
28-Ni-63
Radionuclide Production Cross Section To 999.2 %
Max Ratio
Min Ratio
TENDL Threshold 11.582 MeV
JEFF4.0 Threshold 11.582 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
82
28-Ni-63

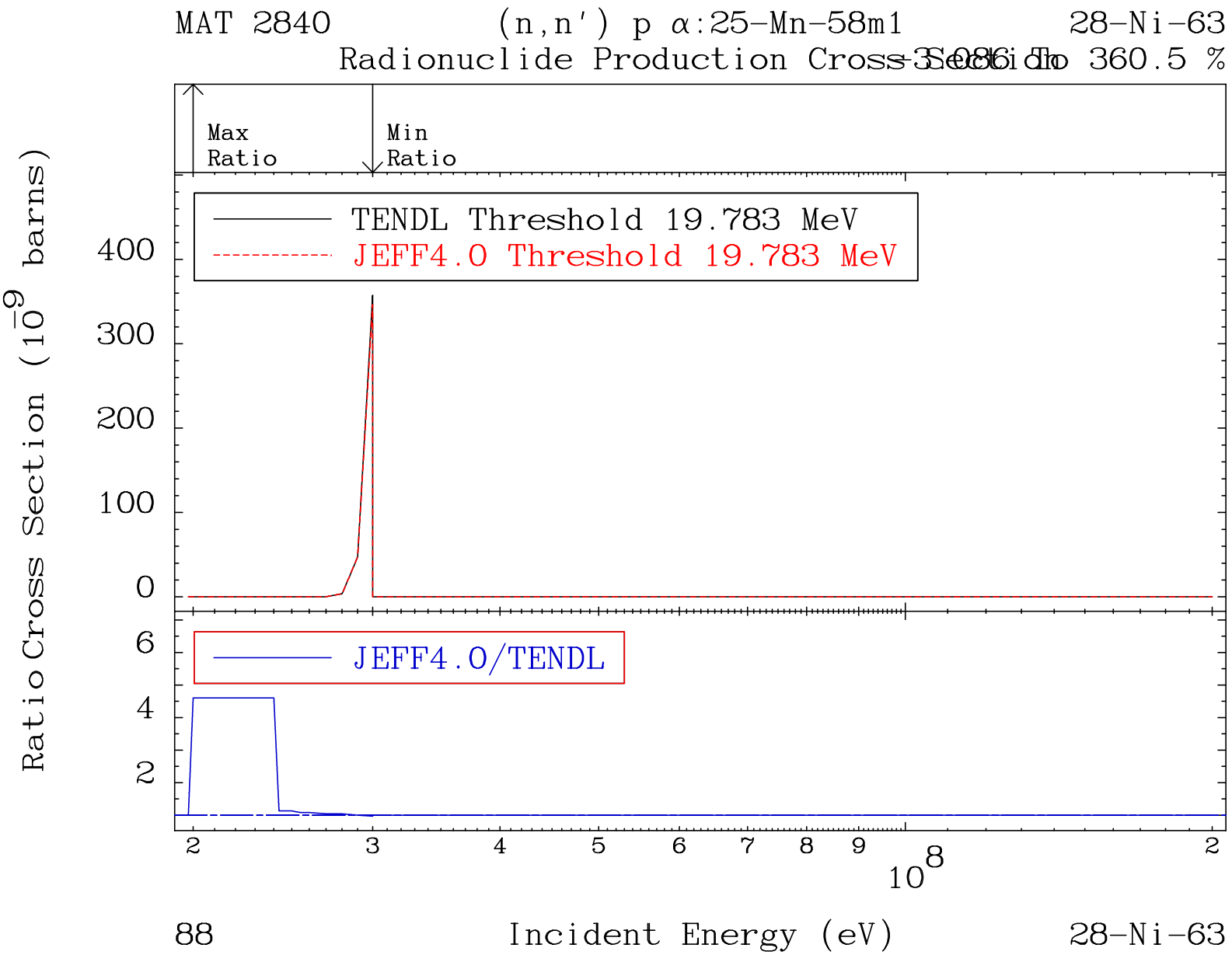

MAT 2840
(n,n') t:27-Co-60g
28-Ni-63
Radionuclide Production Cross-Section To 6.890 %
Max
Ratio
TENDL Threshold 19.114 MeV
JEFF4.0 Threshold 19.114 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
4
3
2
1
0
1.10
1.00
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
28-Ni-63

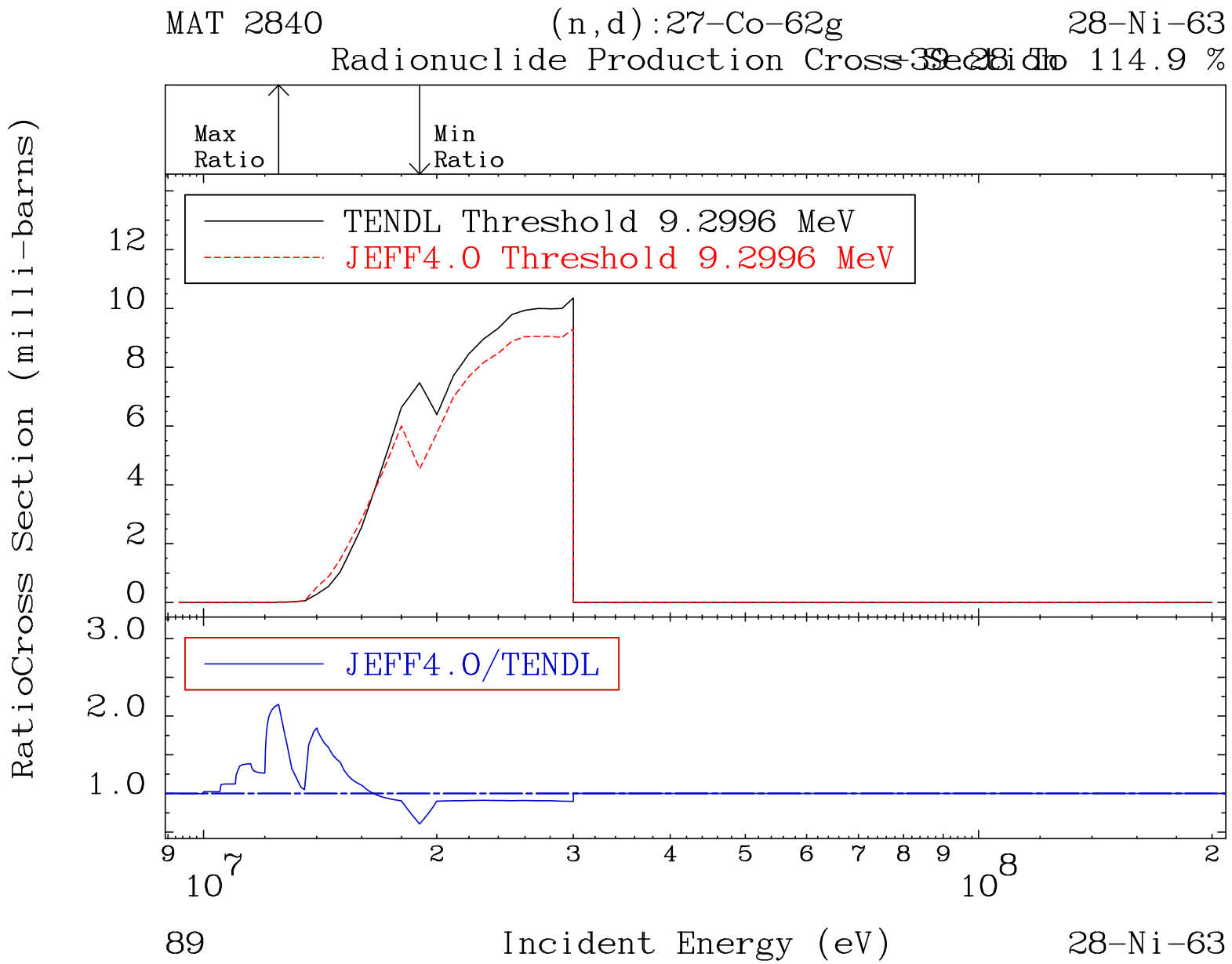

MAT 2840
(n,n') t:27-Co-60m1
28-Ni-63
Radionuclide Production Cross Section
Min
Ratio
TENDL Threshold 19.173 MeV
JEFF4.0 Threshold 19.173 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2
3
4
5
6
7
8
9
10^8
84
Incident Energy (eV)
28-Ni-63

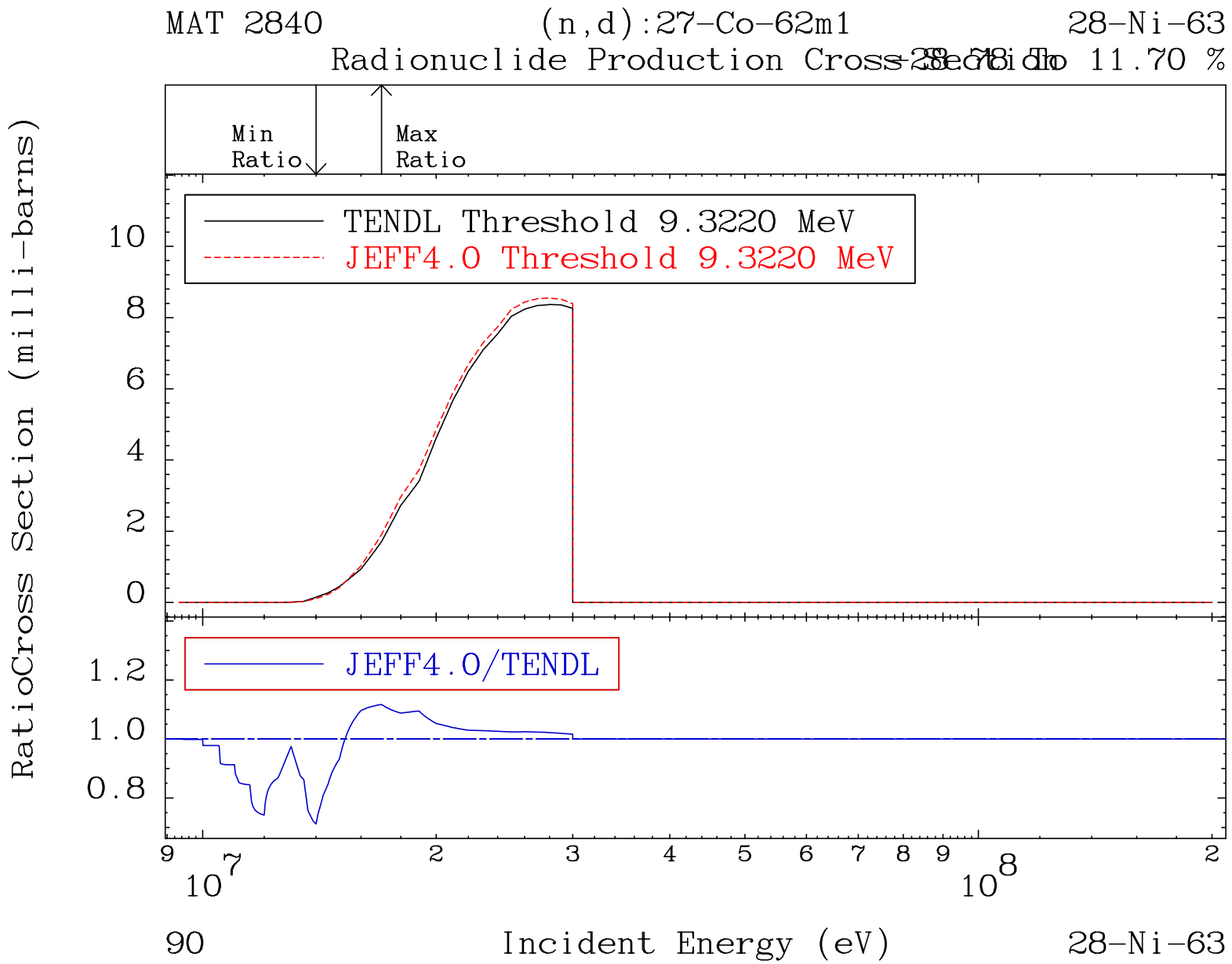

MAT 2840
(n,3n) p:27-Co-60g
28-Ni-63
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 27.732 MeV
JEFF4.0 Threshold 27.732 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^-9 barns)
300
250
200
150
100
50
0
1.8
1.2
0.6
40
60
80
100
120
140
160
180
200
85
Incident Energy (MeV)
28-Ni-63

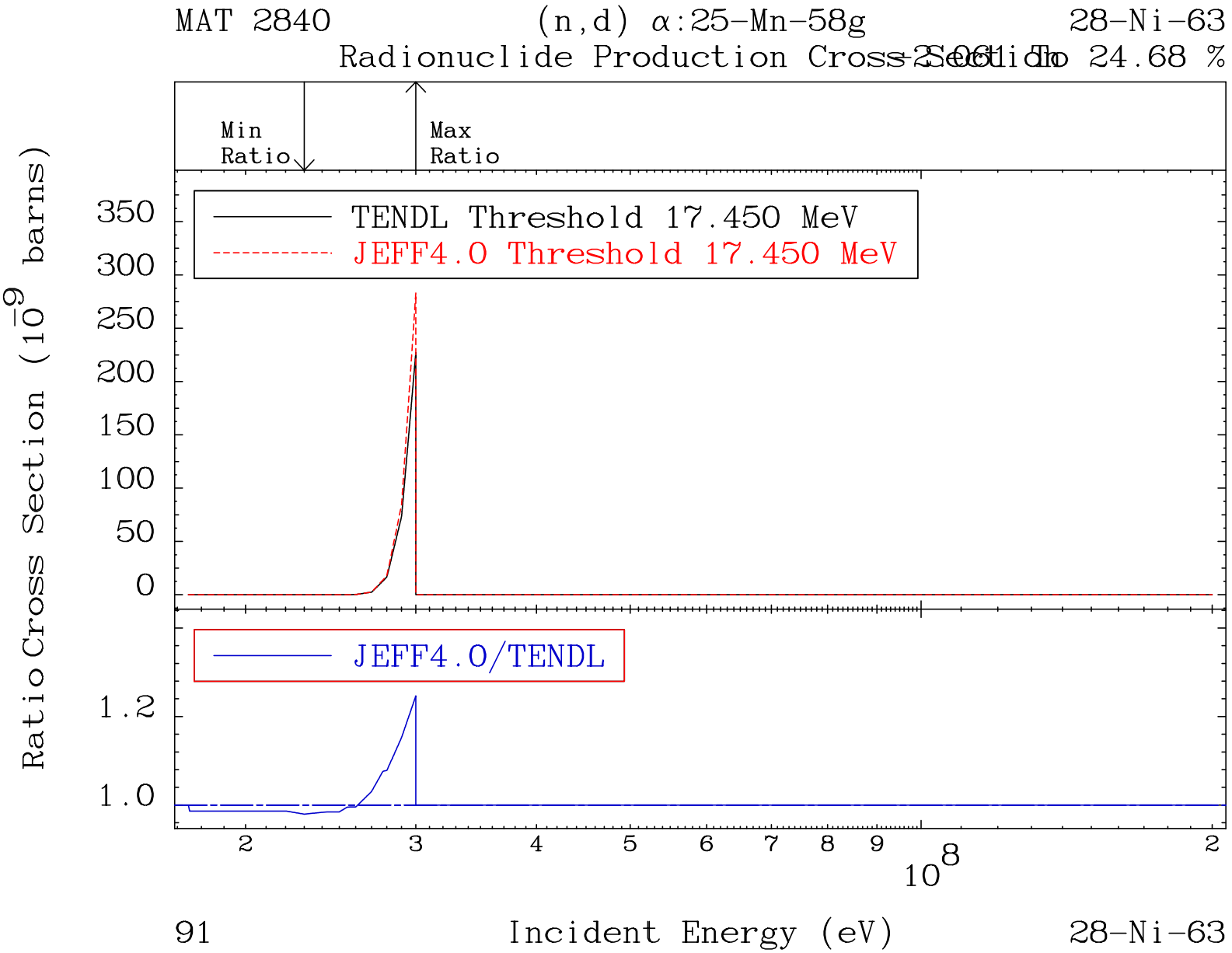

MAT 2840
(n,3n) p:27-Co-60m1
28-Ni-63
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 28.000 MeV
JEFF4.0 Threshold 27.791 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^-9 barns)
70
60
50
40
30
20
10
0
1.1
1.0
0.9
0.8
40
60
80
100
120
140
160
180
200
86
Incident Energy (MeV)
28-Ni-63

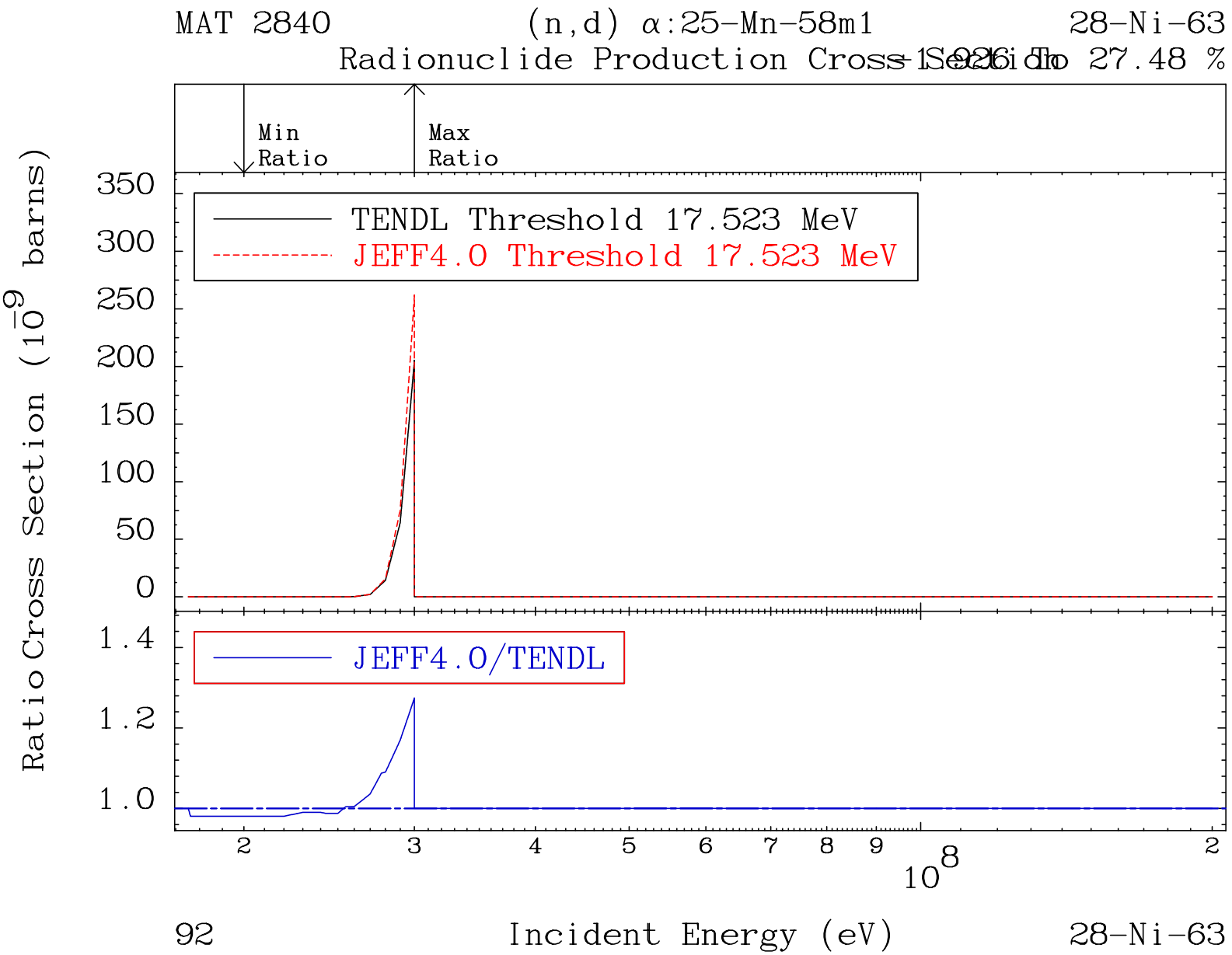

MAT 2840
(n,n') p α:25-Mn-58g
28-Ni-63
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 19.710 MeV
JEFF4.0 Threshold 19.710 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^-9 barns)
Incident Energy (eV)
87


MAT 2840
(n,n') p α:25-Mn-58m1
28-Ni-63
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 19.783 MeV
JEFF4.0 Threshold 19.783 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^-9 barns)
400
300
200
100
0
6
4
2
2
3
4
5
6
7
8
9
10^8
2
88
Incident Energy (eV)
28-Ni-63


MAT 2840
(n,d):27-Co-62g
28-Ni-63
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 9.2996 MeV
JEFF4.0 Threshold 9.2996 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
89
28-Ni-63


MAT 2840
(n,d):27-Co-62m1
28-Ni-63
Radionuclide Production Cross-Section
Min Ratio
Max Ratio
TENDL Threshold 9.3220 MeV
JEFF4.0 Threshold 9.3220 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
90
28-Ni-63


MAT 2840
(n,d) α:25-Mn-58g
28-Ni-63
Radionuclide Production Cross Section To 24.68 %
Min Ratio
Max Ratio
TENDL Threshold 17.450 MeV
JEFF4.0 Threshold 17.450 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^-9 barns)
350
300
250
200
150
100
50
0
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
91
Incident Energy (eV)
28-Ni-63


MAT 2840
(n,d) α:25-Mn-58m1
28-Ni-63
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 17.523 MeV
JEFF4.0 Threshold 17.523 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^-9 barns)
Incident Energy (eV)
92
28-Ni-63