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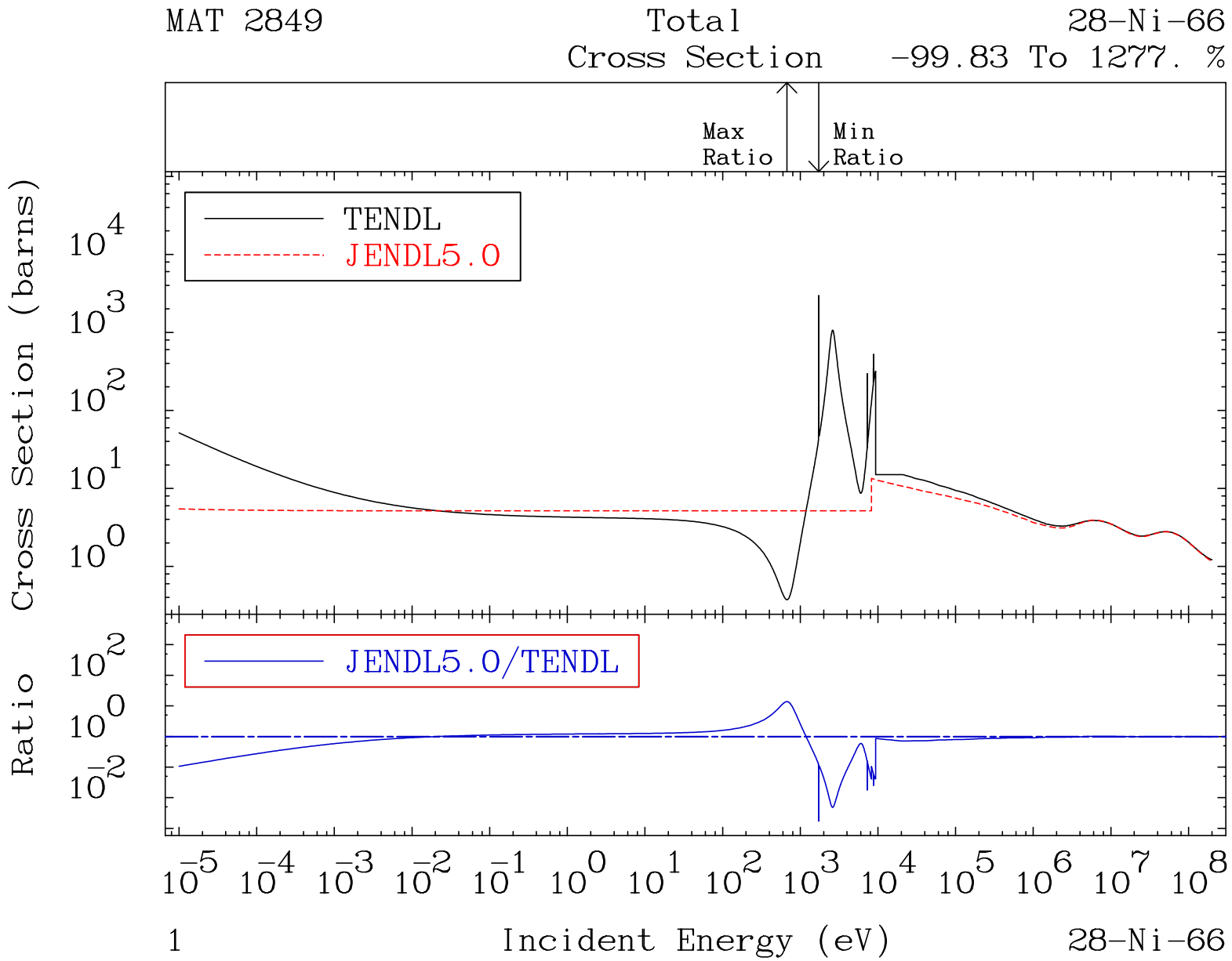
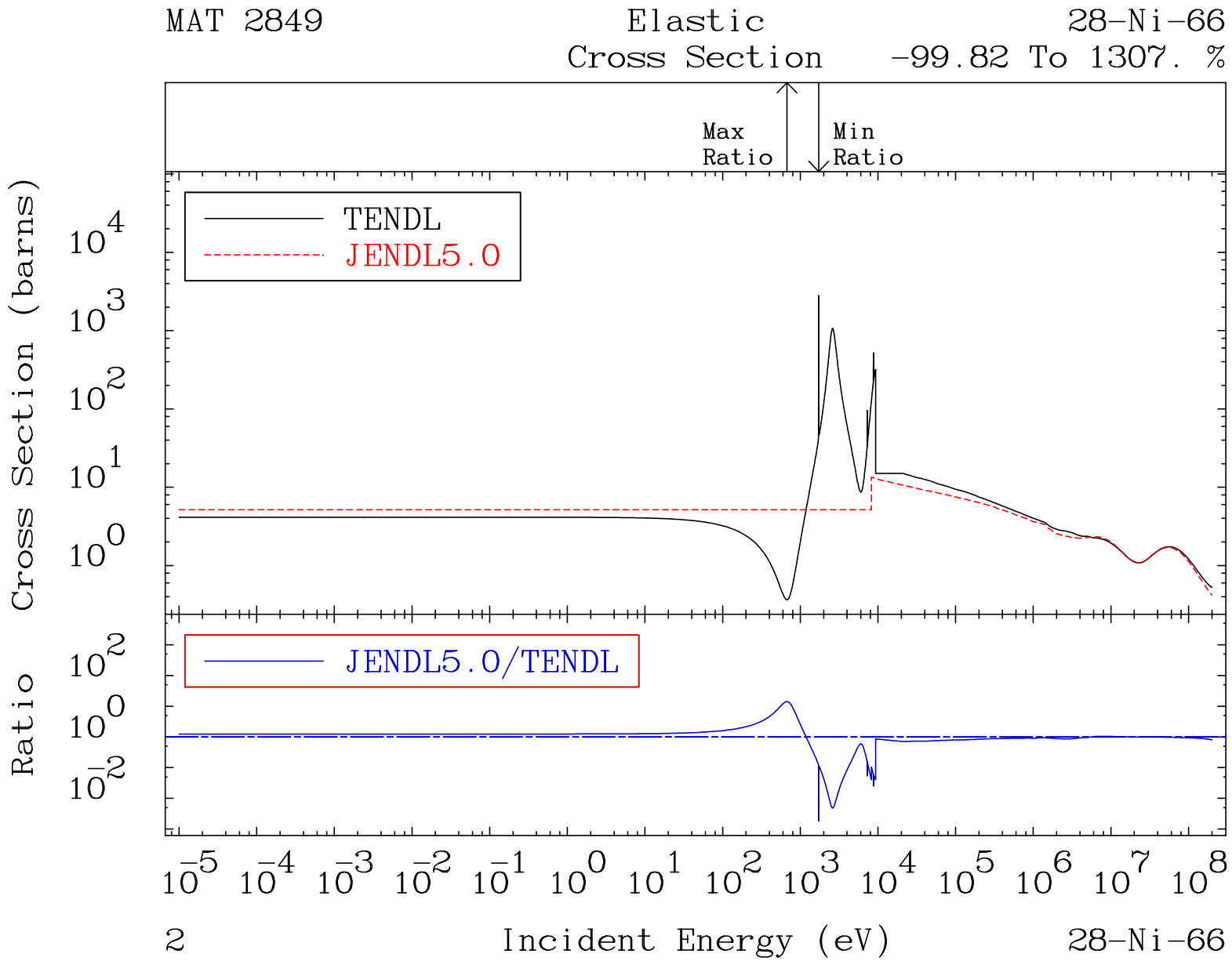
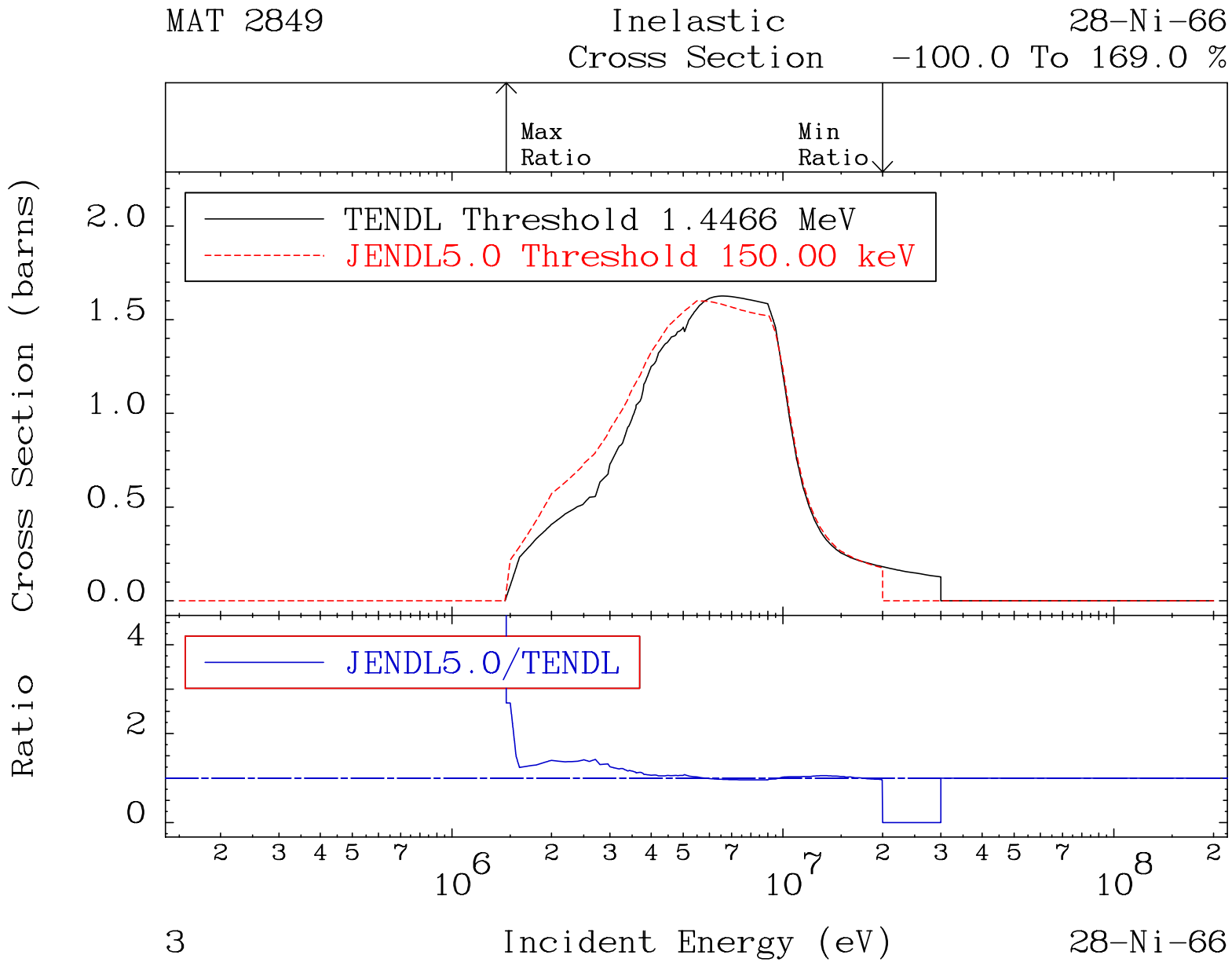
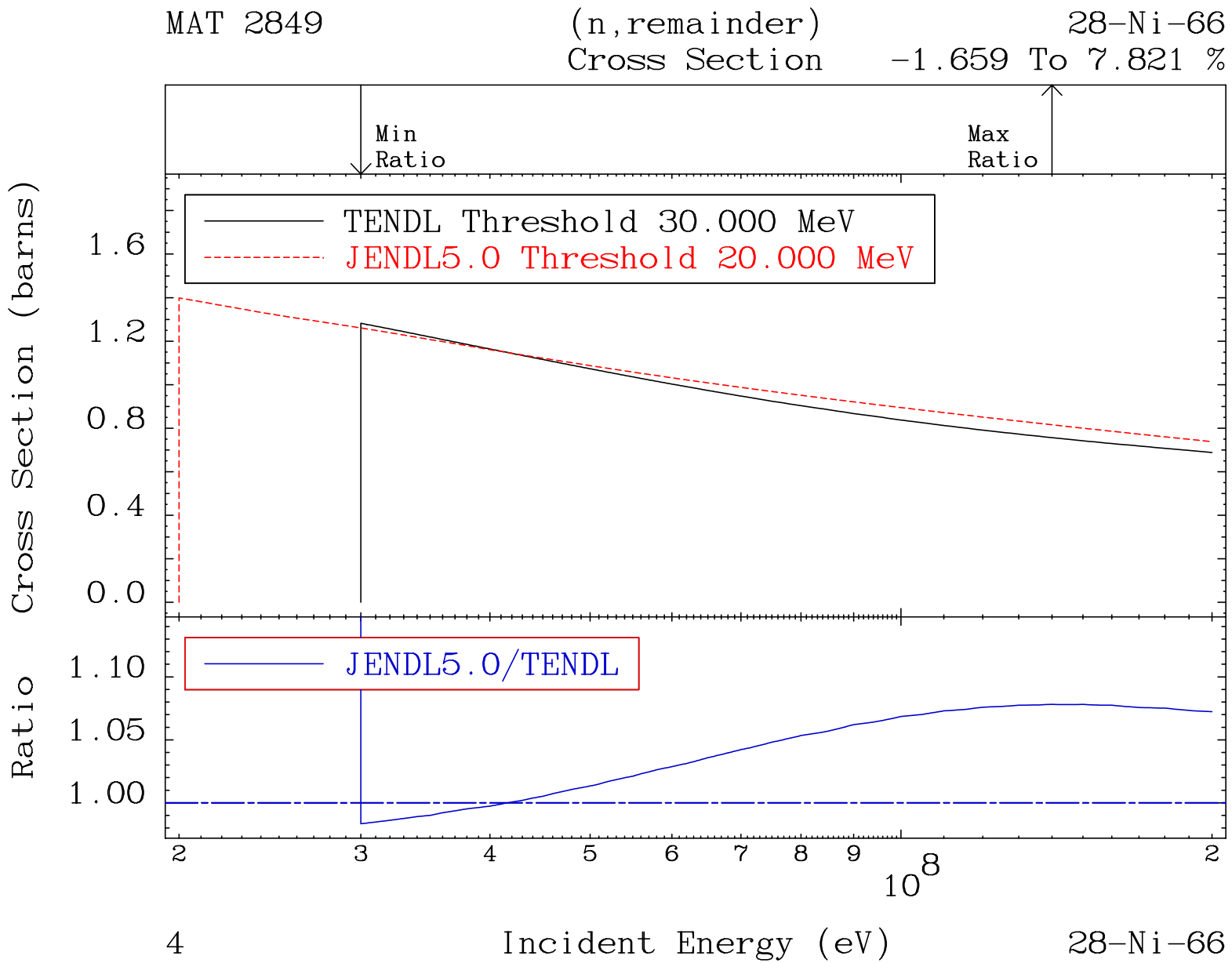
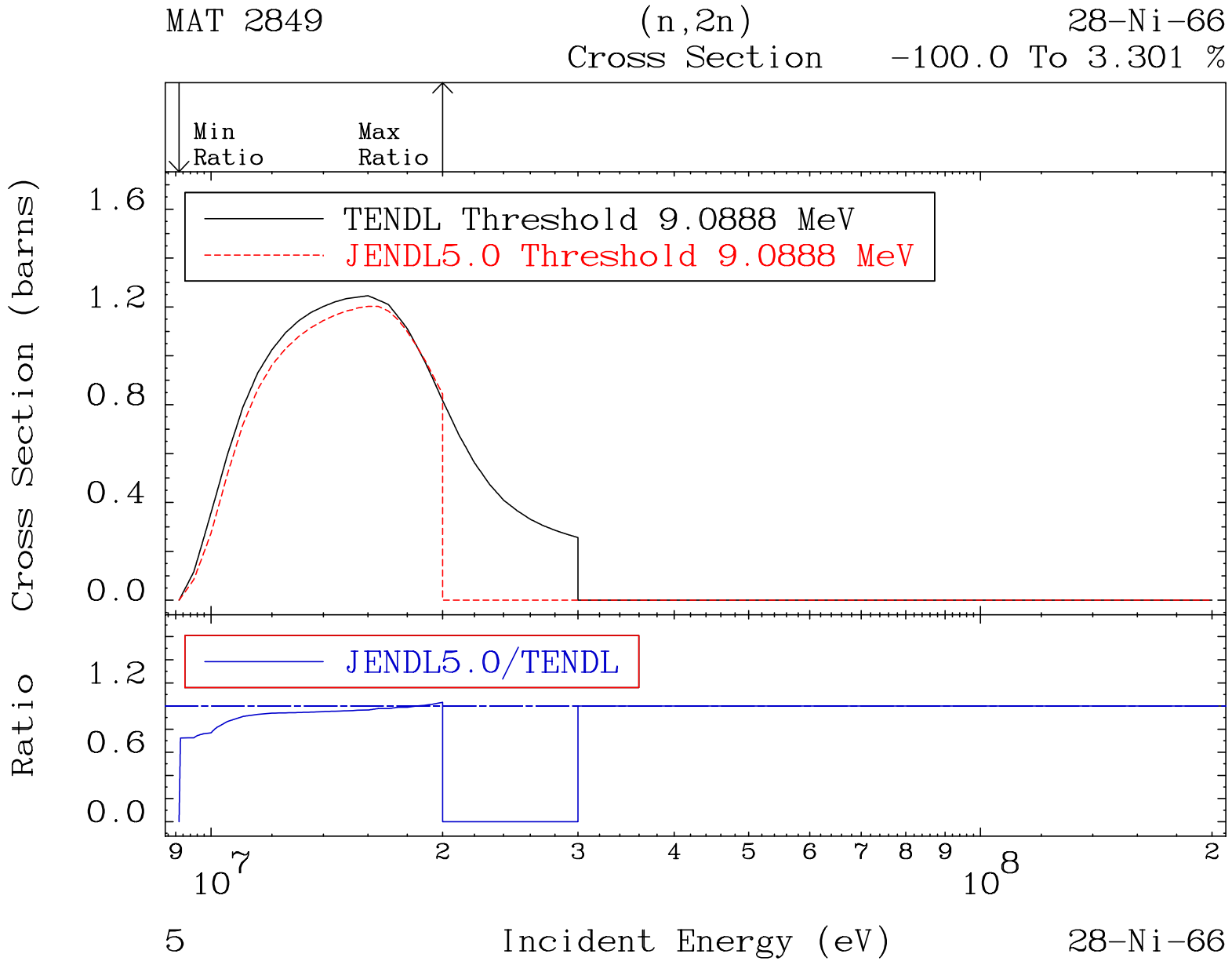
Press Mouse Button to Start

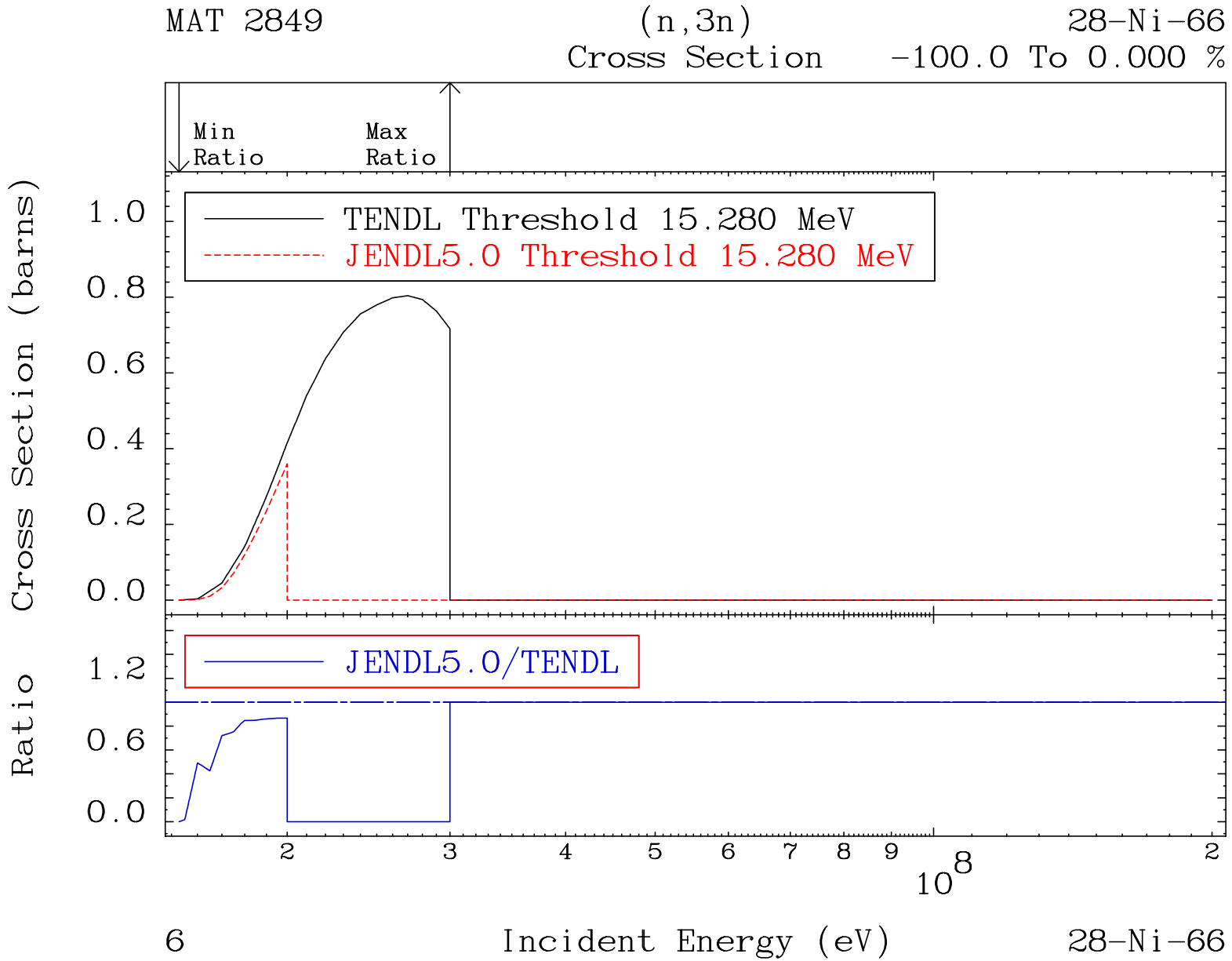

MAT 2849
Total
Cross Section
28-Ni-66
-99.83 To 1277. %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
1
28-Ni-66

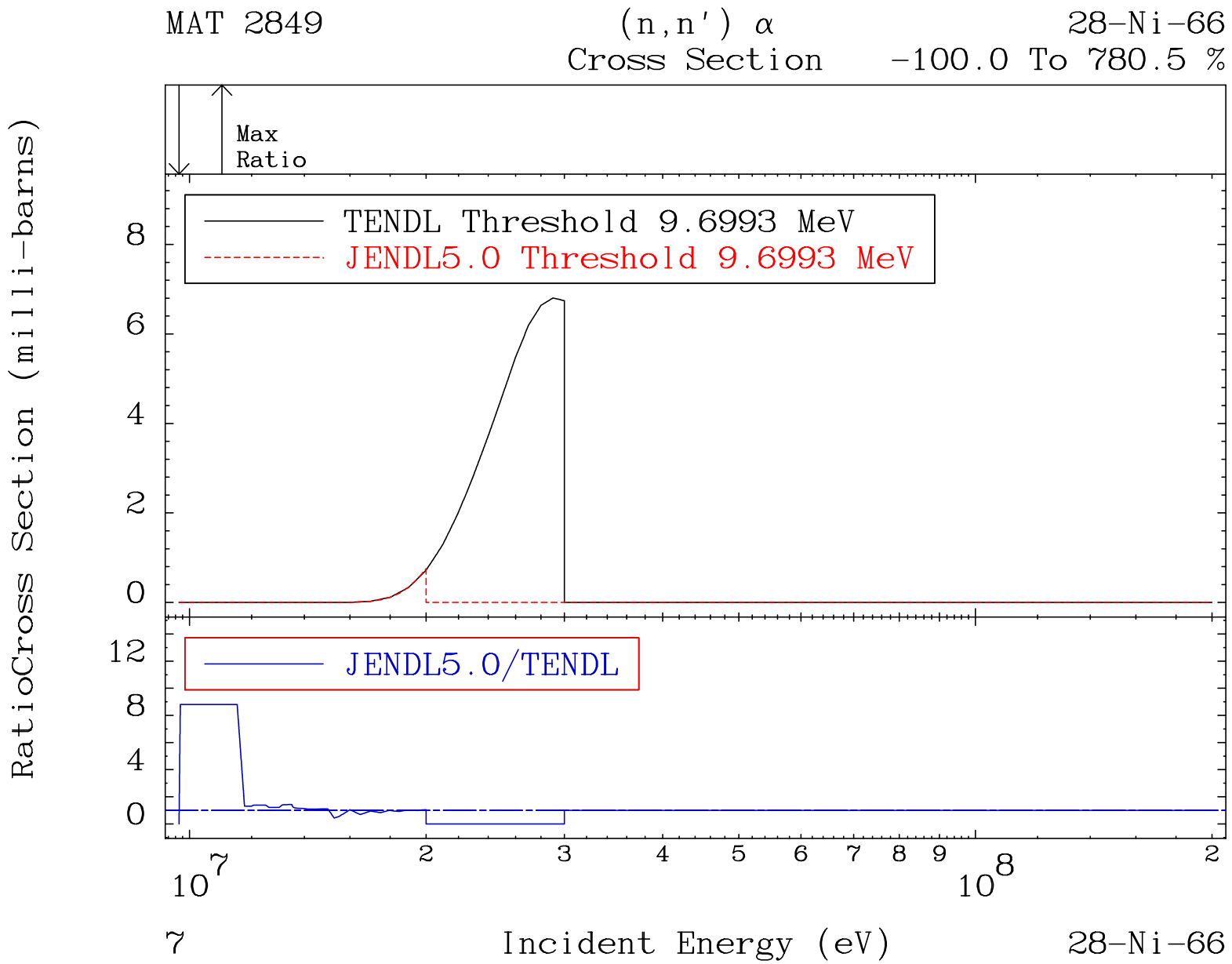

MAT 2849
Elastic
Cross Section
28-Ni-66
-99.82 To 1307. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
28-Ni-66

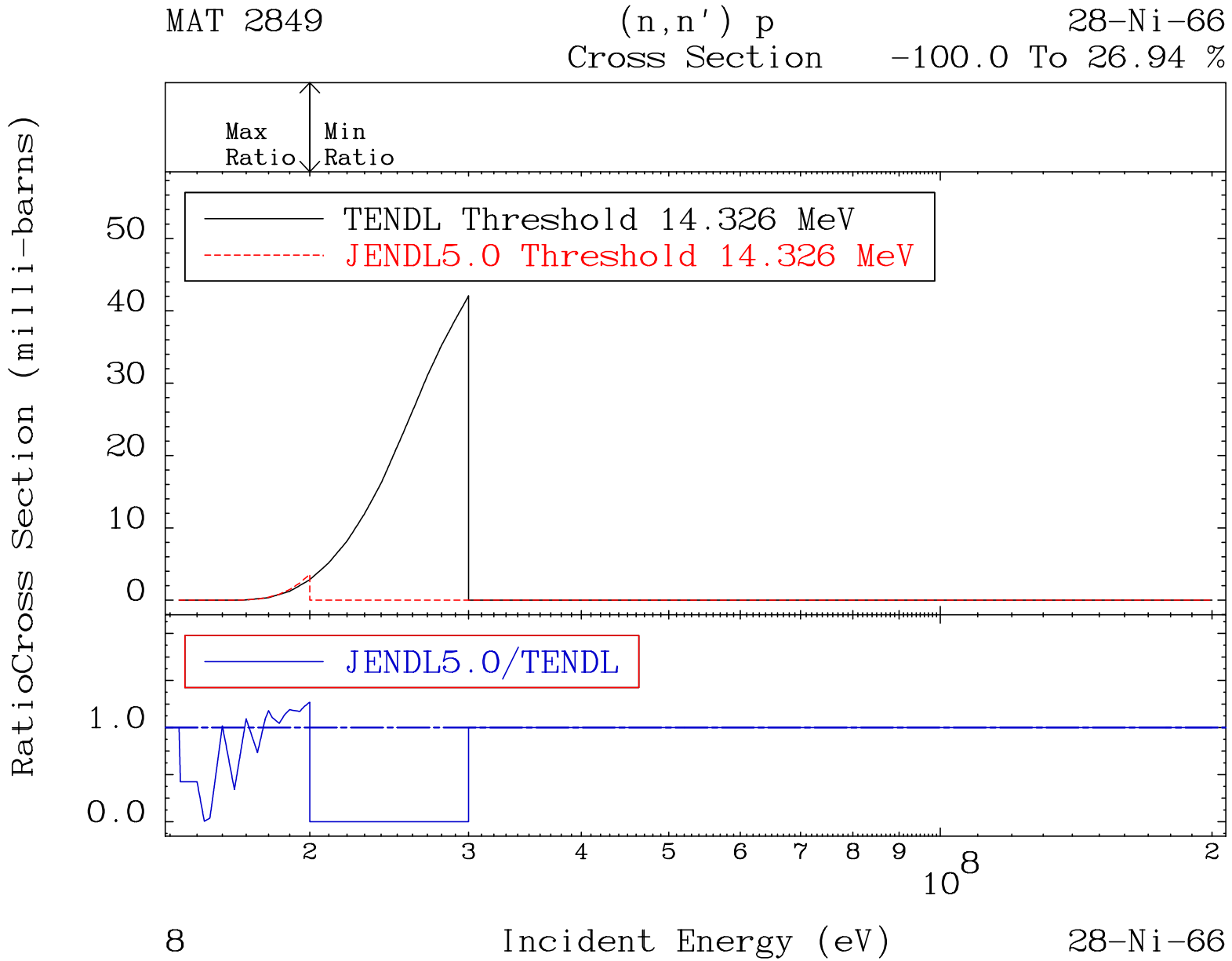

MAT 2849
Inelastic
Cross Section
28-Ni-66
-100.0 To 169.0 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.4466 MeV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
4
2
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
3
Incident Energy (eV)
28-Ni-66

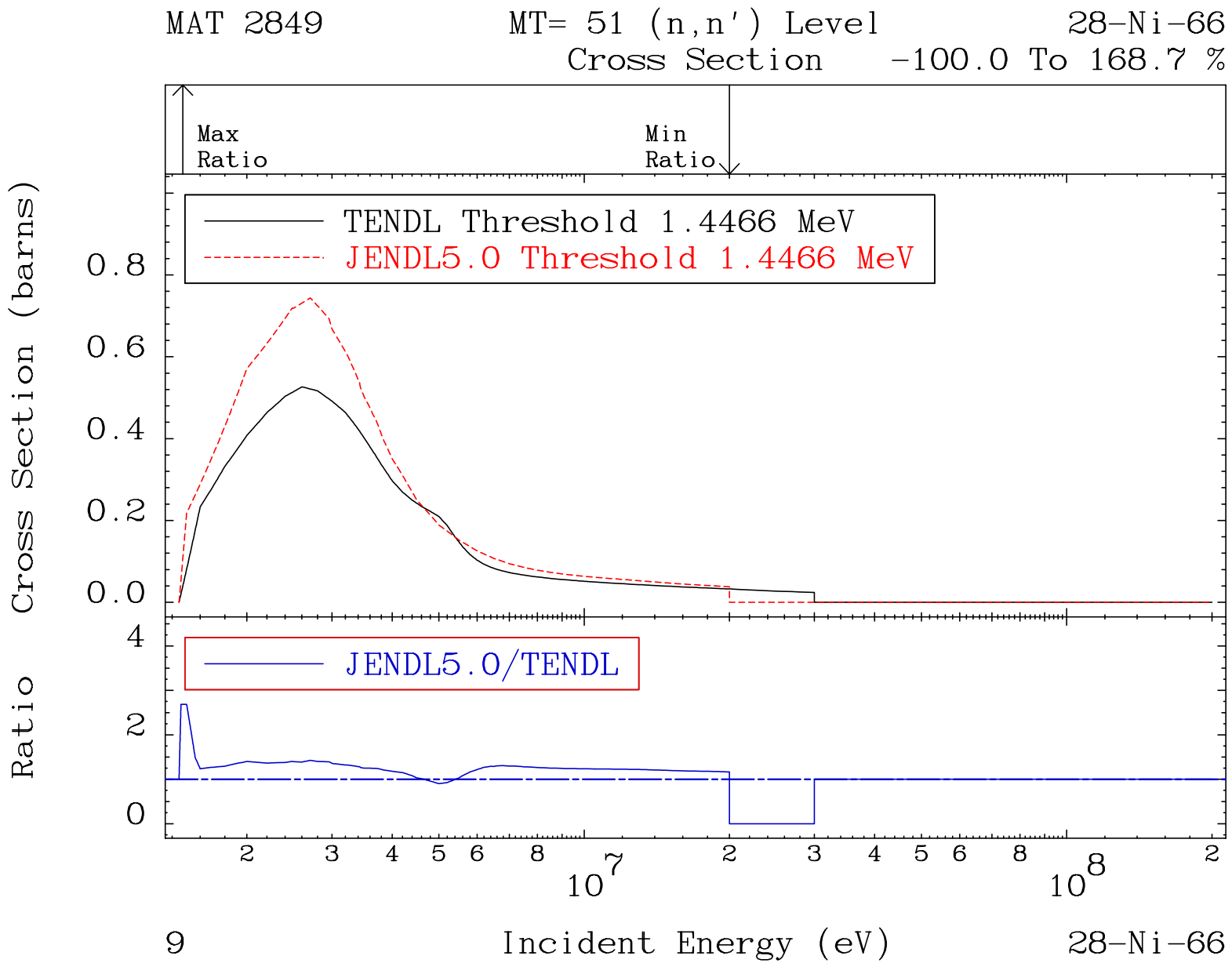

MAT 2849
(n,remainder)
Cross Section
28-Ni-66
-1.659 To 7.821 %
Min
Ratio
Max
Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
JENDL5.0/TENDL
Ratio
1.10
1.05
1.00
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
28-Ni-66

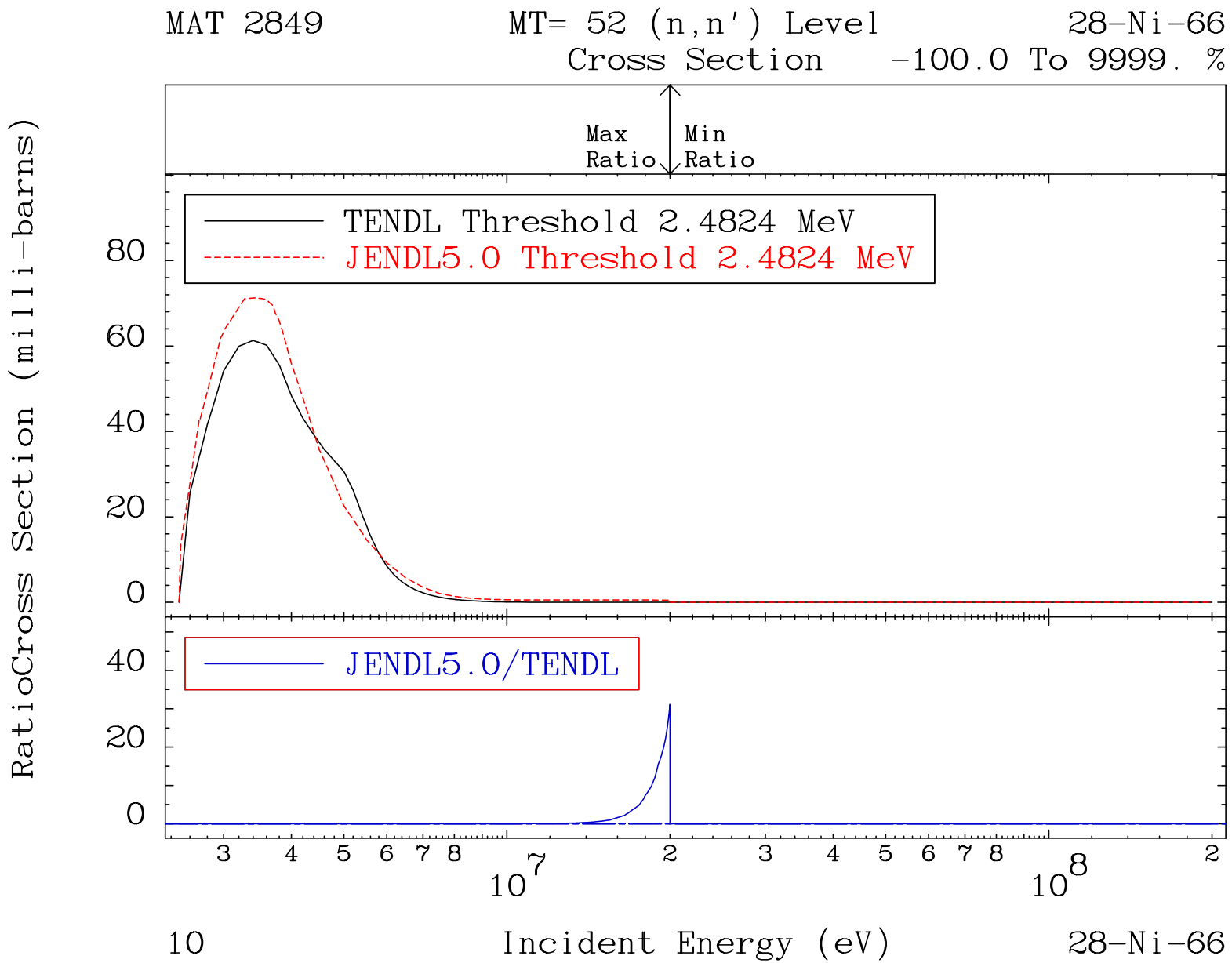

MAT 2849
(n,2n)
28-Ni-66
Cross Section
-100.0 To 3.301 %
Min Ratio
Max Ratio
TENDL Threshold 9.0888 MeV
JENDL5.0 Threshold 9.0888 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
1.2
0.6
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
28-Ni-66

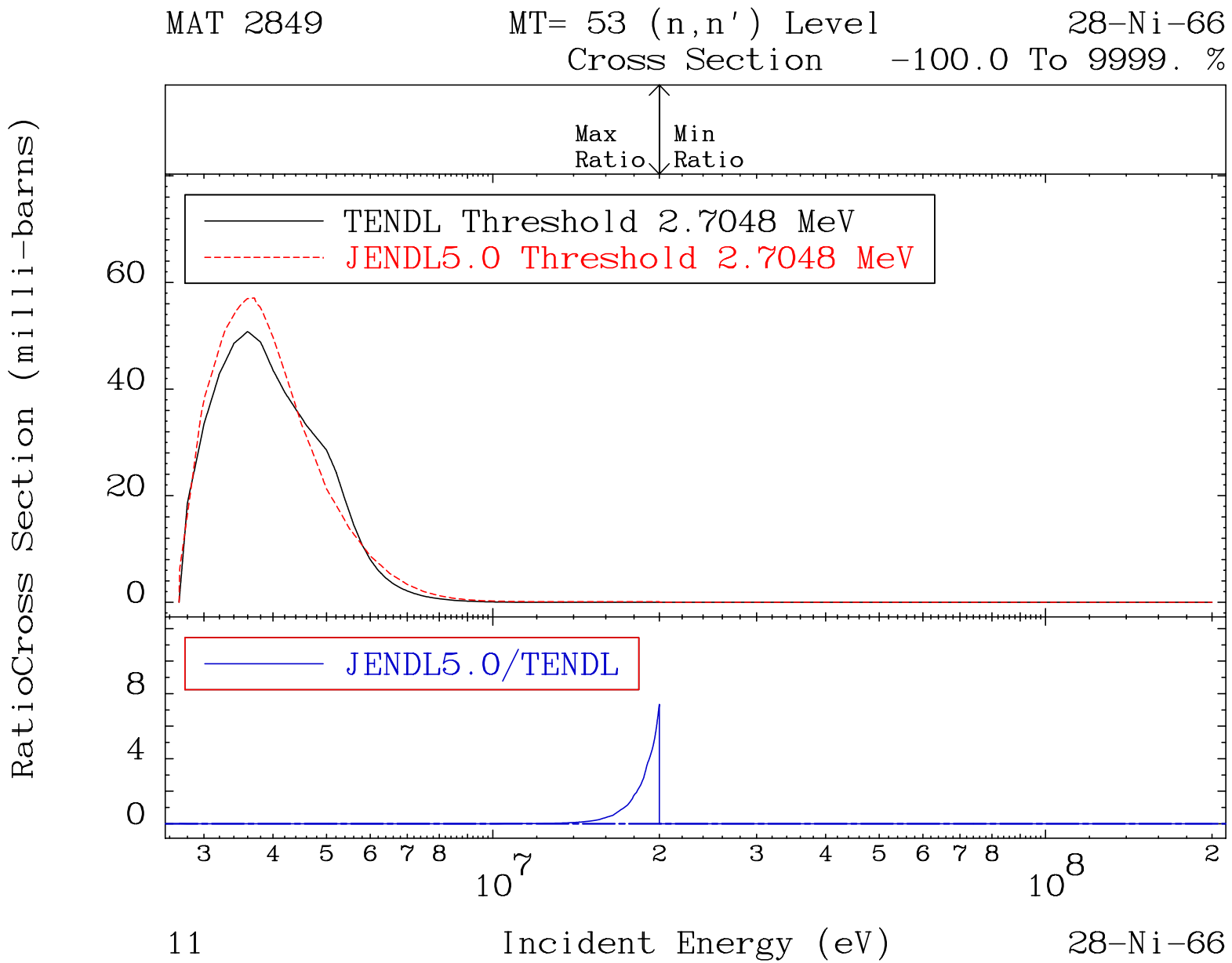

MAT 2849
(n,3n)
28-Ni-66
Cross Section
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 15.280 MeV
JENDL5.0 Threshold 15.280 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
28-Ni-66

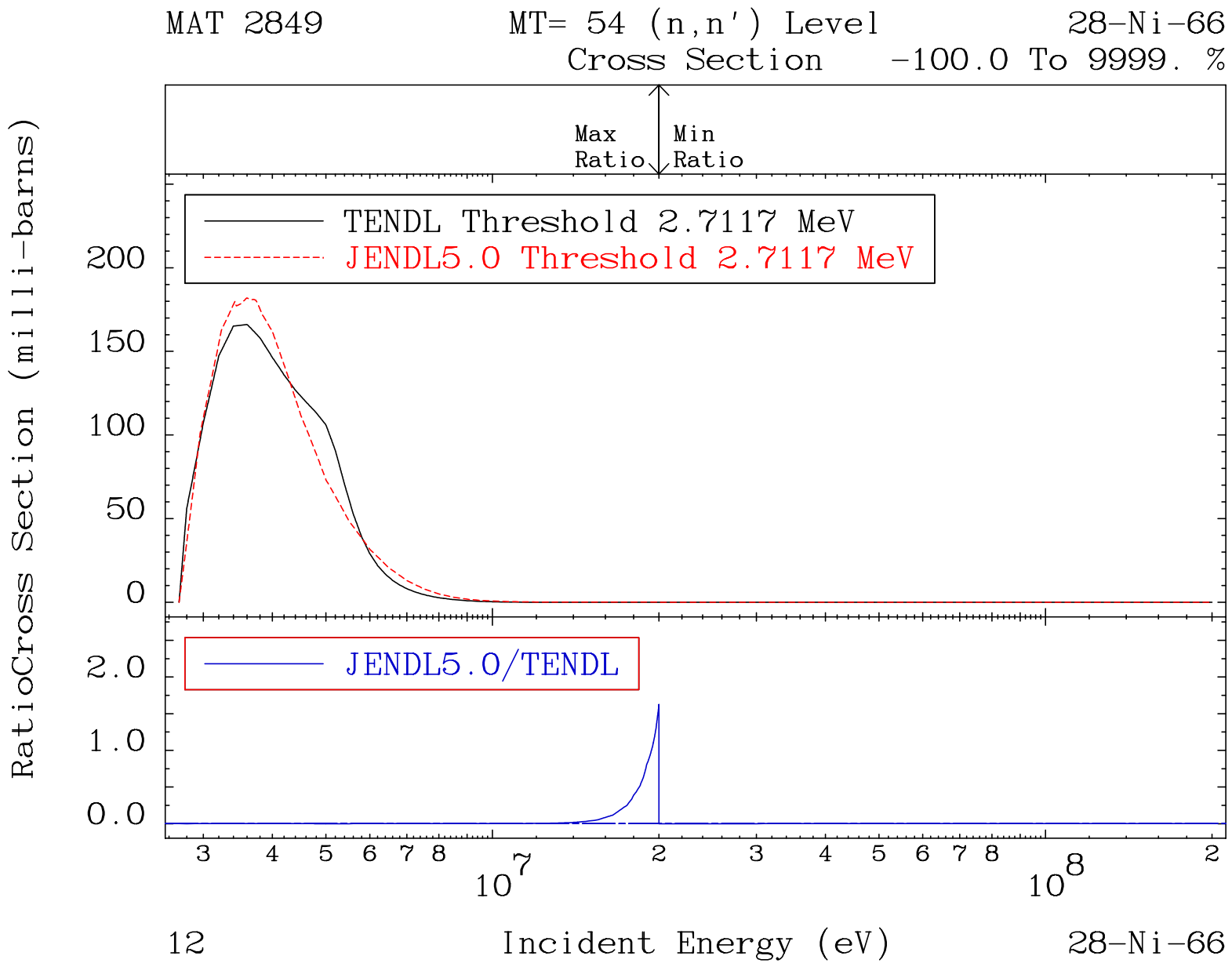

MAT 2849
(n,n') α
Cross Section
28-Ni-66
-100.0 To 780.5 %
Max
Ratio
TENDL Threshold 9.6993 MeV
JENDL5.0 Threshold 9.6993 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
28-Ni-66

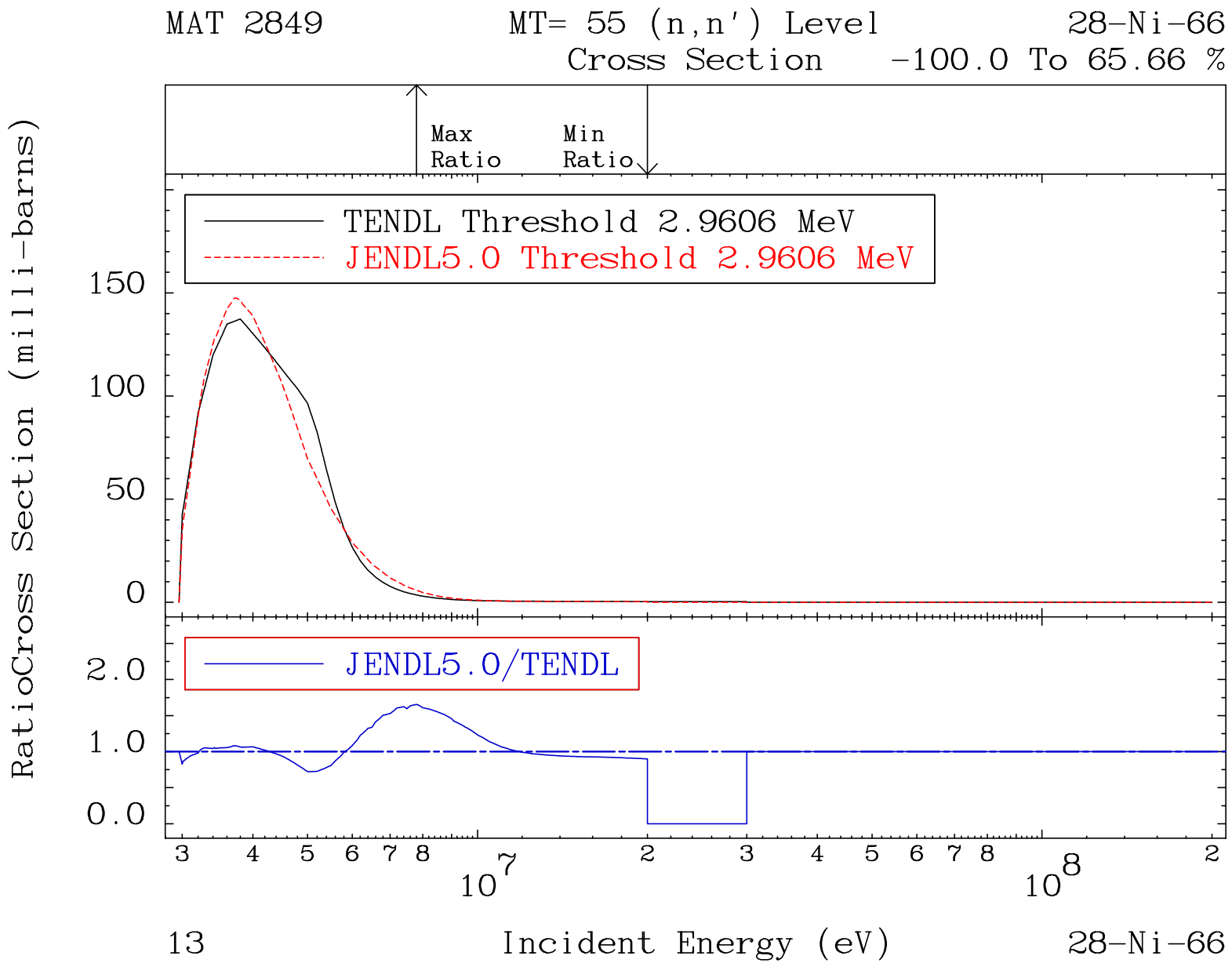

MAT 2849
(n,n') p
Cross Section
28-Ni-66
-100.0 To 26.94 %
Max Ratio
Min Ratio
TENDL Threshold 14.326 MeV
JENDL5.0 Threshold 14.326 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
28-Ni-66

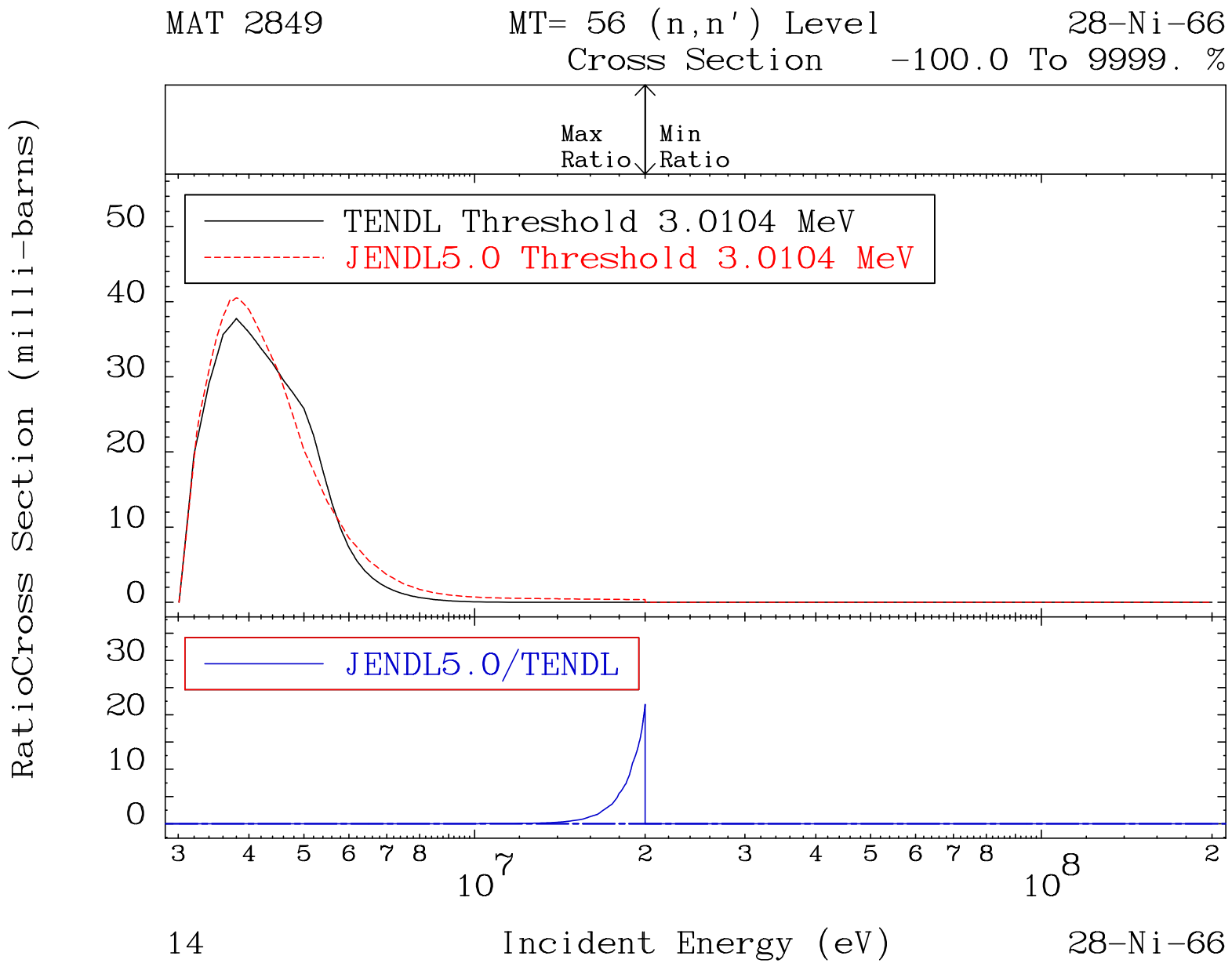

MAT 2849
MT= 51 (n,n') Level
28-Ni-66
Cross Section -100.0 To 168.7 %
Max Ratio
Min Ratio
TENDL Threshold 1.4466 MeV
JENDL5.0 Threshold 1.4466 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
0.0
0.2
0.4
0.6
0.8
0
2
4
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
9
28-Ni-66

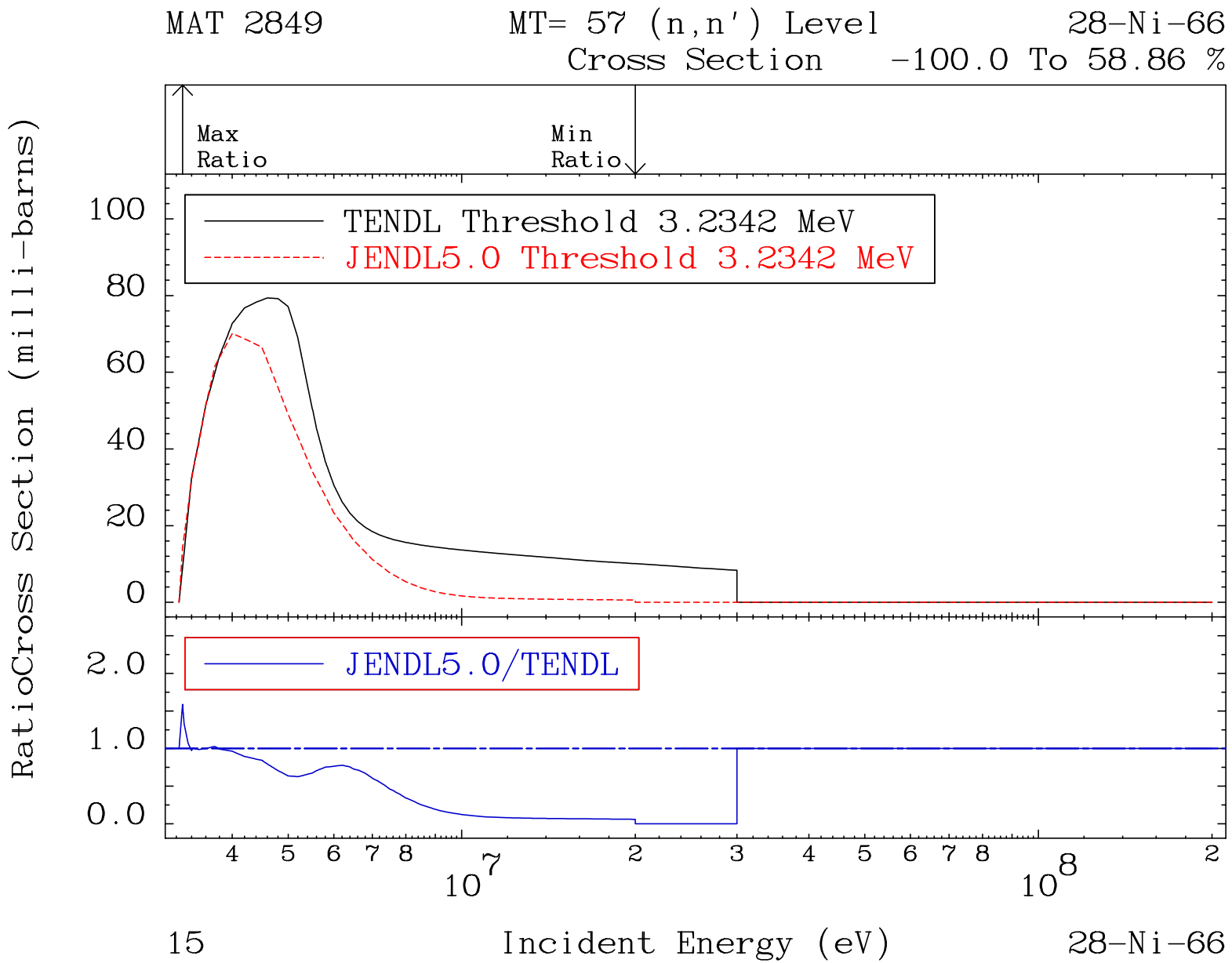

MAT 2849
MT= 52 (n,n') Level
28-Ni-66
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.4824 MeV
JENDL5.0 Threshold 2.4824 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
10
28-Ni-66

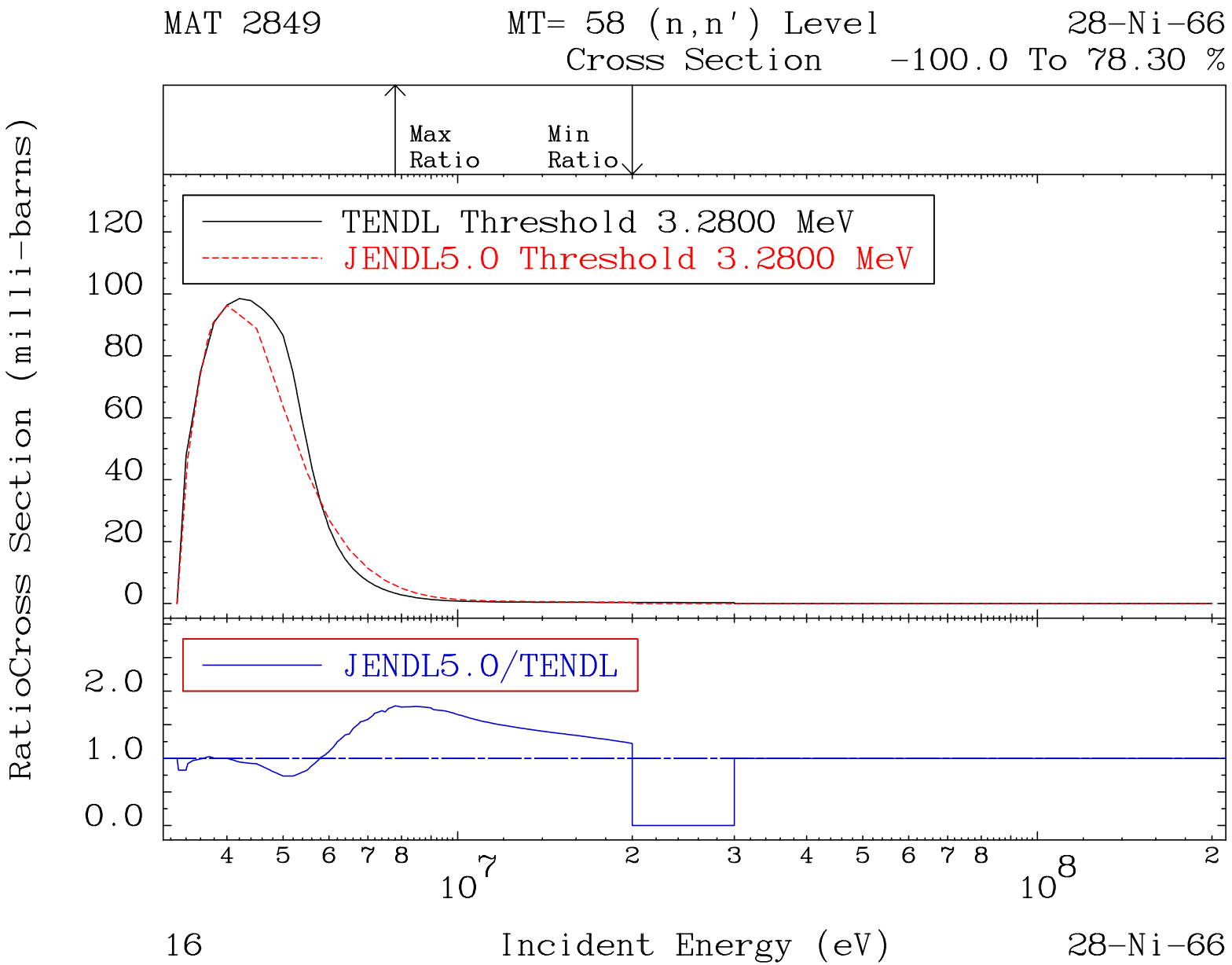

MAT 2849
MT= 53 (n,n') Level
28-Ni-66
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.7048 MeV
JENDL5.0 Threshold 2.7048 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
8
4
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
28-Ni-66

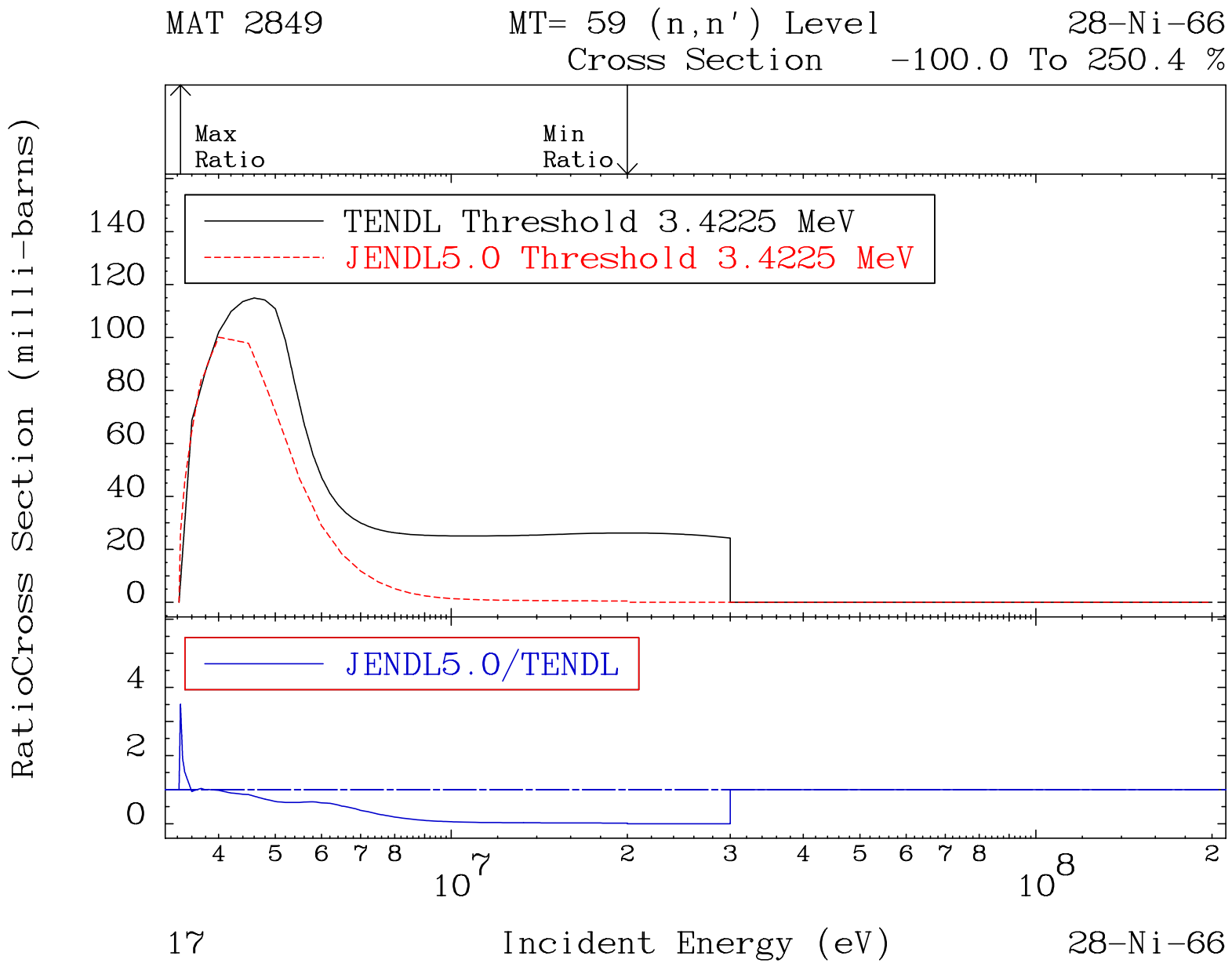

MAT 2849
MT= 54 (n,n') Level
28-Ni-66
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.7117 MeV
JENDL5.0 Threshold 2.7117 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
28-Ni-66

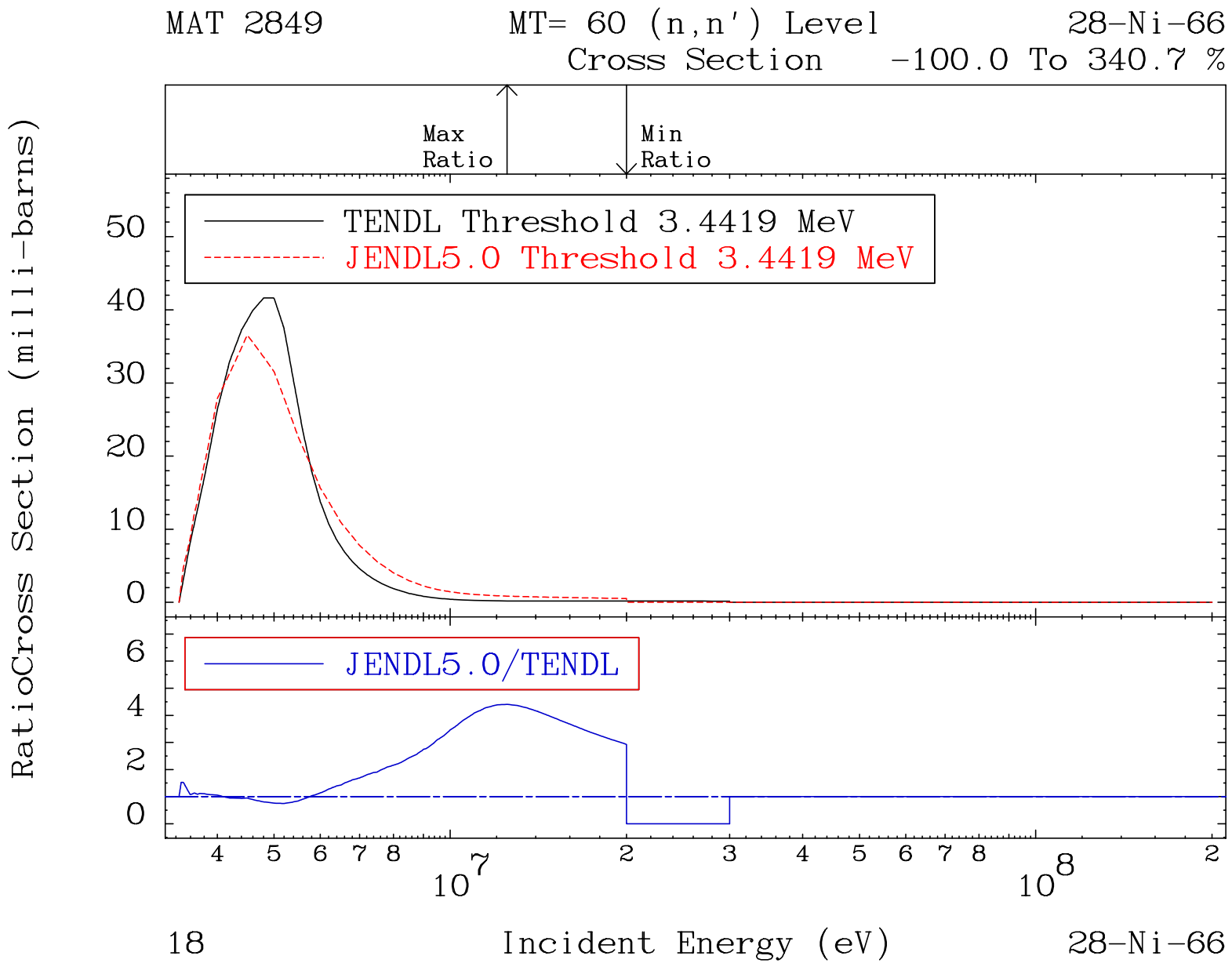

MAT 2849
MT= 55 (n,n') Level
28-Ni-66
Cross Section -100.0 To 65.66 %
Max Ratio
Min Ratio
TENDL Threshold 2.9606 MeV
JENDL5.0 Threshold 2.9606 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
150
100
50
0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
13
Incident Energy (eV)
28-Ni-66

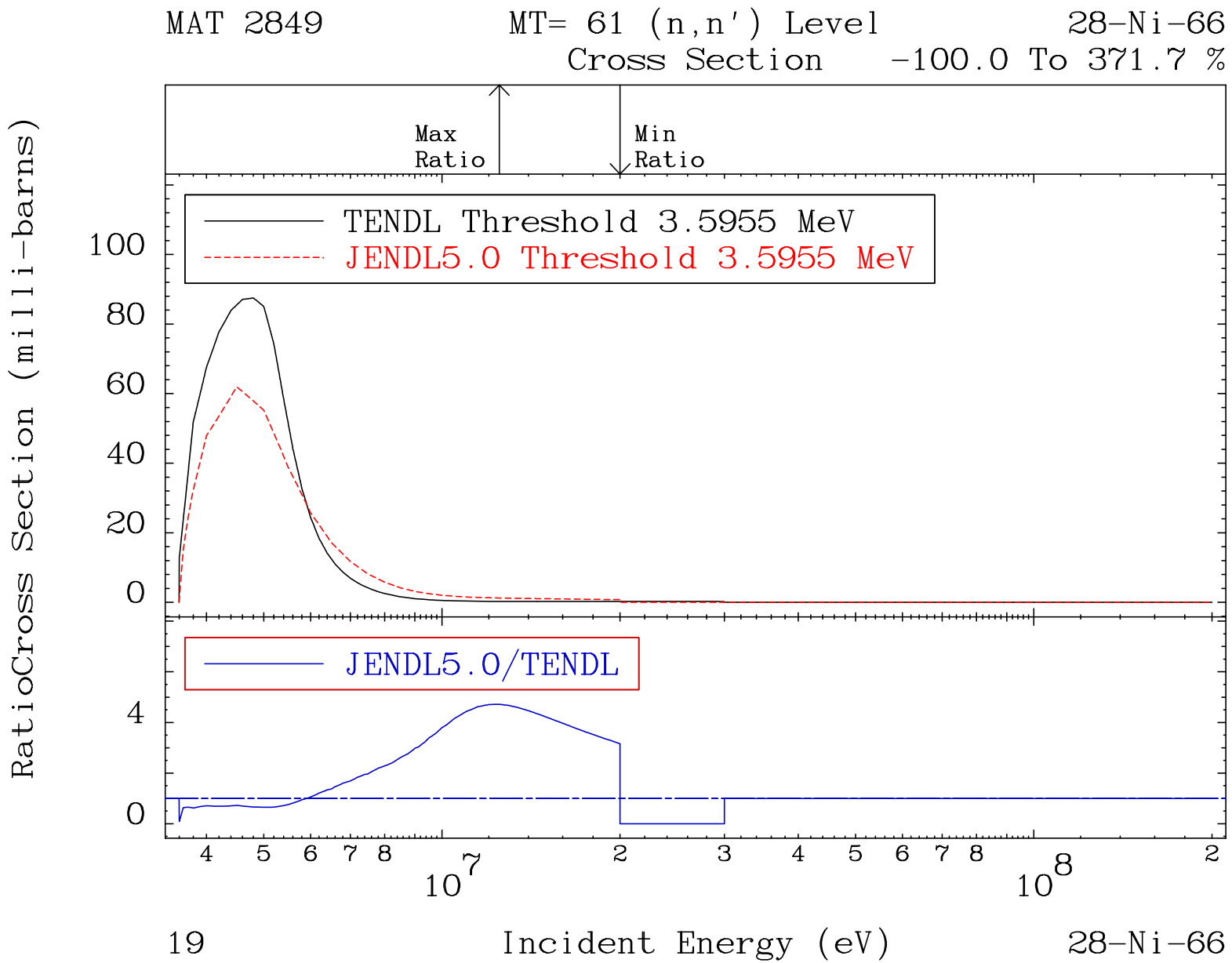

MAT 2849
MT= 56 (n,n') Level
28-Ni-66
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.0104 MeV
JENDL5.0 Threshold 3.0104 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
30
20
10
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
14
Incident Energy (eV)
28-Ni-66

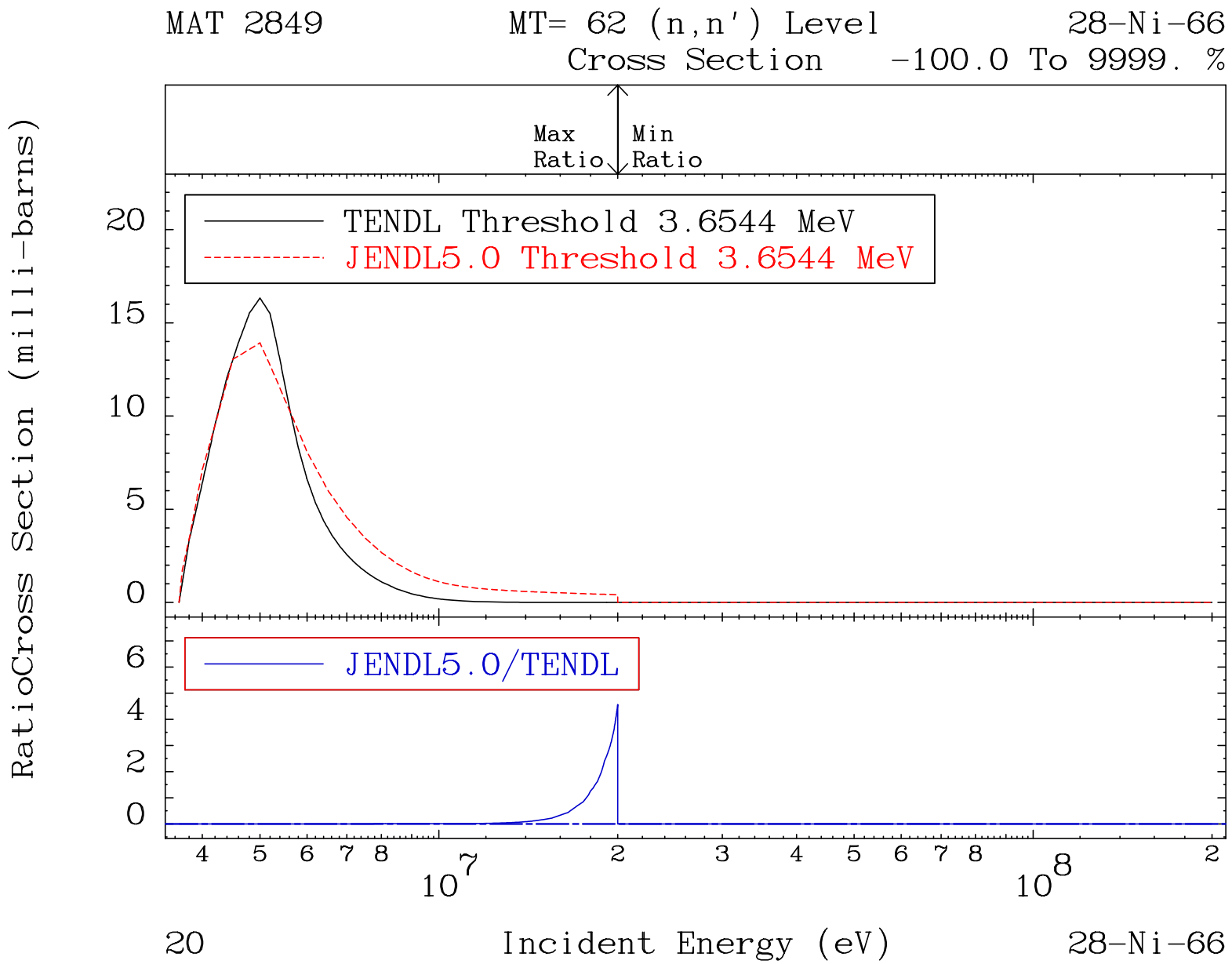

MAT 2849
MT= 57 (n,n') Level
28-Ni-66
Cross Section -100.0 To 58.86 %
Max Ratio
Min Ratio
TENDL Threshold 3.2342 MeV
JENDL5.0 Threshold 3.2342 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
28-Ni-66

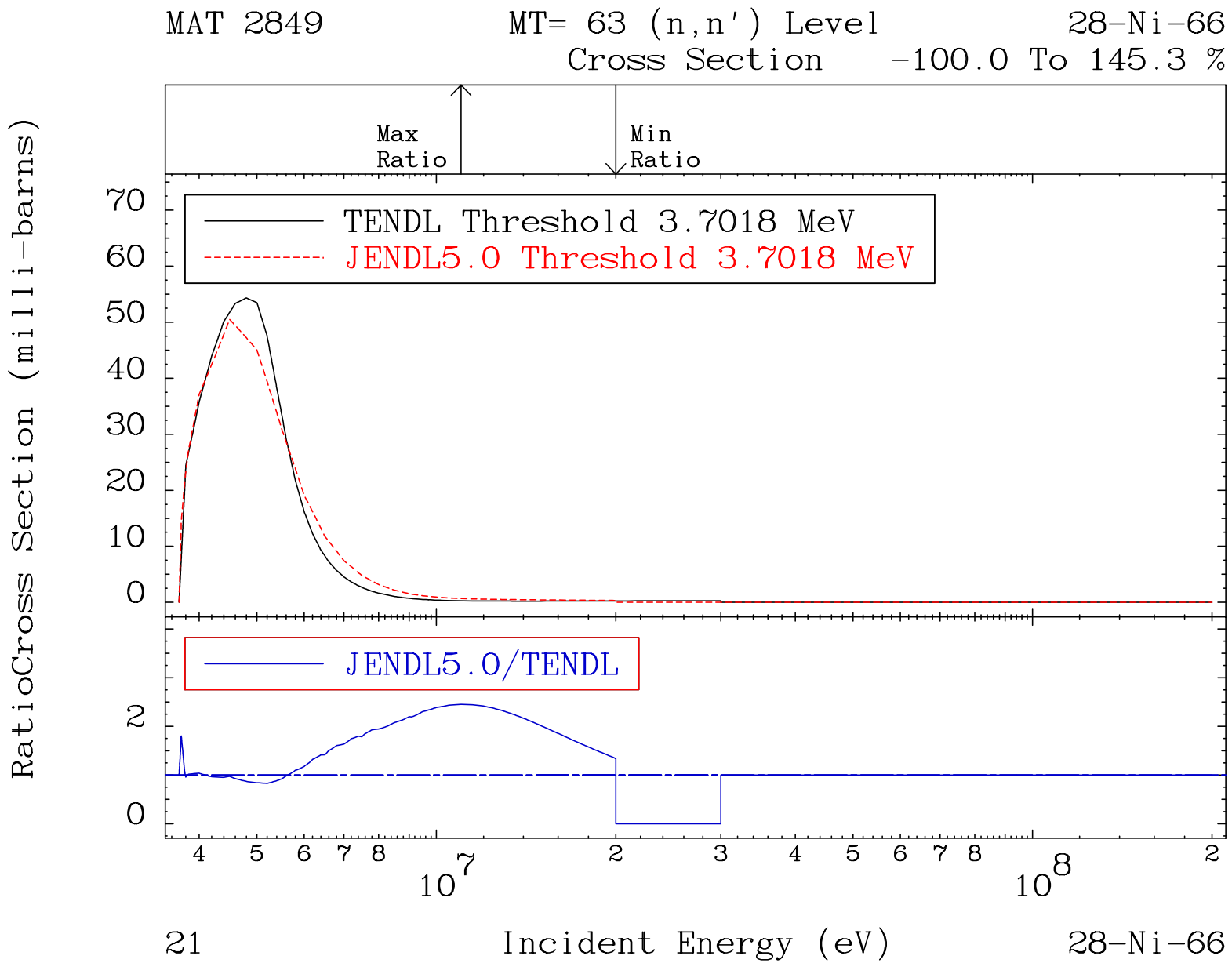

MAT 2849
MT= 58 (n,n') Level
28-Ni-66
Cross Section -100.0 To 78.30 %
Max Ratio
Min Ratio
TENDL Threshold 3.2800 MeV
JENDL5.0 Threshold 3.2800 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
2.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
28-Ni-66

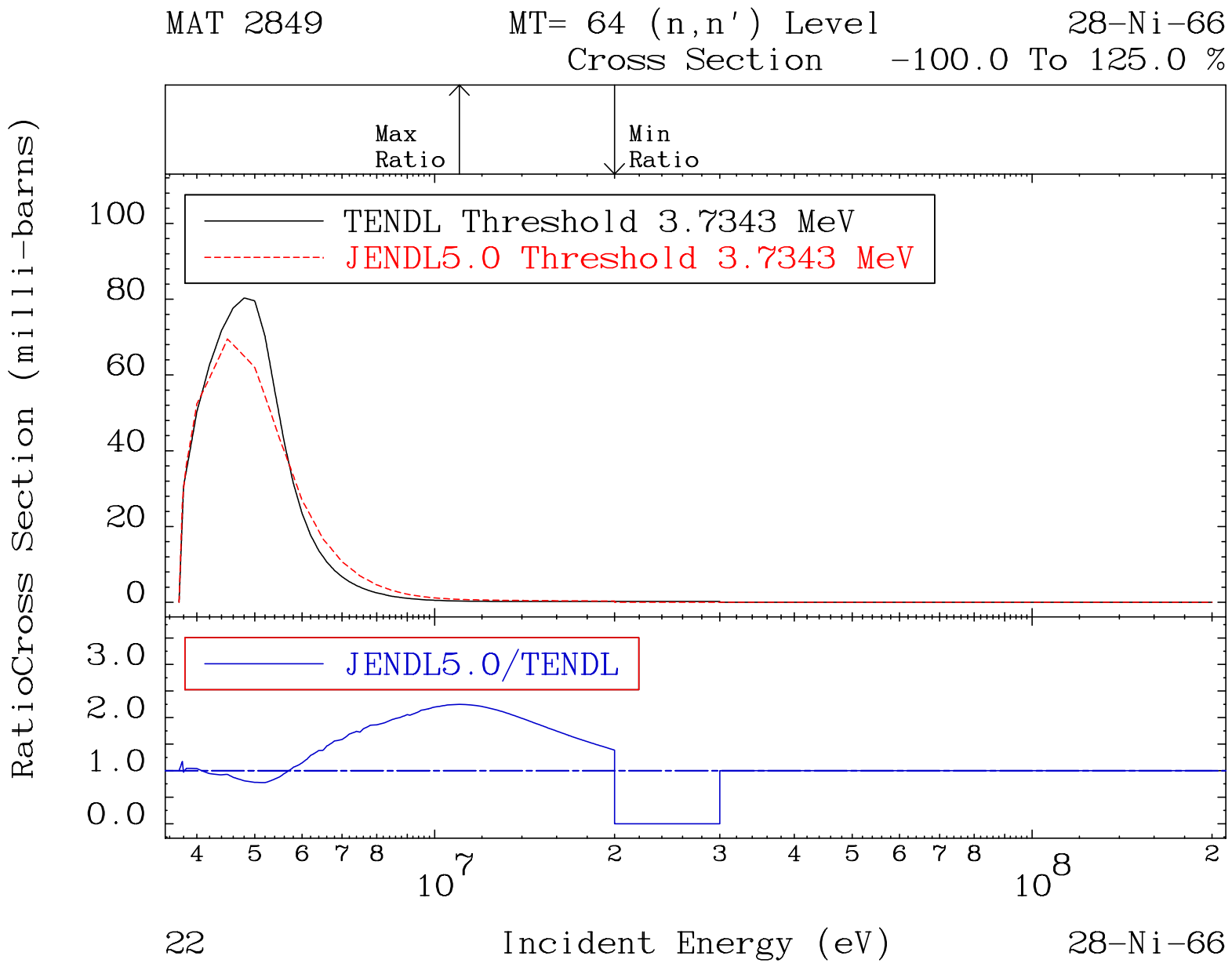

MAT 2849
MT= 59 (n,n') Level
28-Ni-66
Cross Section
-100.0 To 250.4 %
Max Ratio
Min Ratio
TENDL Threshold 3.4225 MeV
JENDL5.0 Threshold 3.4225 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
4
2
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
28-Ni-66

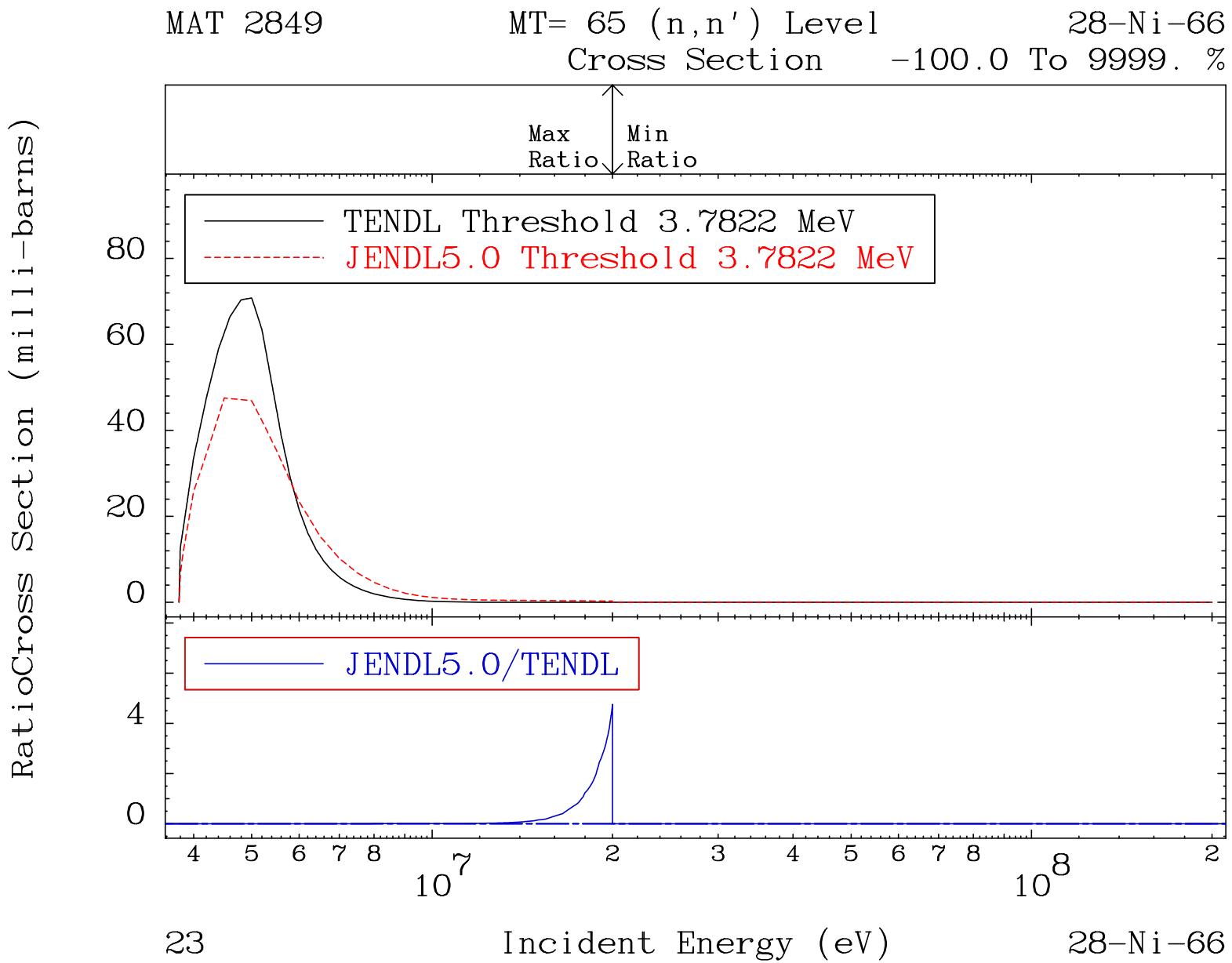

MAT 2849
MT= 60 (n,n') Level
28-Ni-66
Cross Section -100.0 To 340.7 %
Max Ratio
Min Ratio
TENDL Threshold 3.4419 MeV
JENDL5.0 Threshold 3.4419 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
6
4
2
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
28-Ni-66

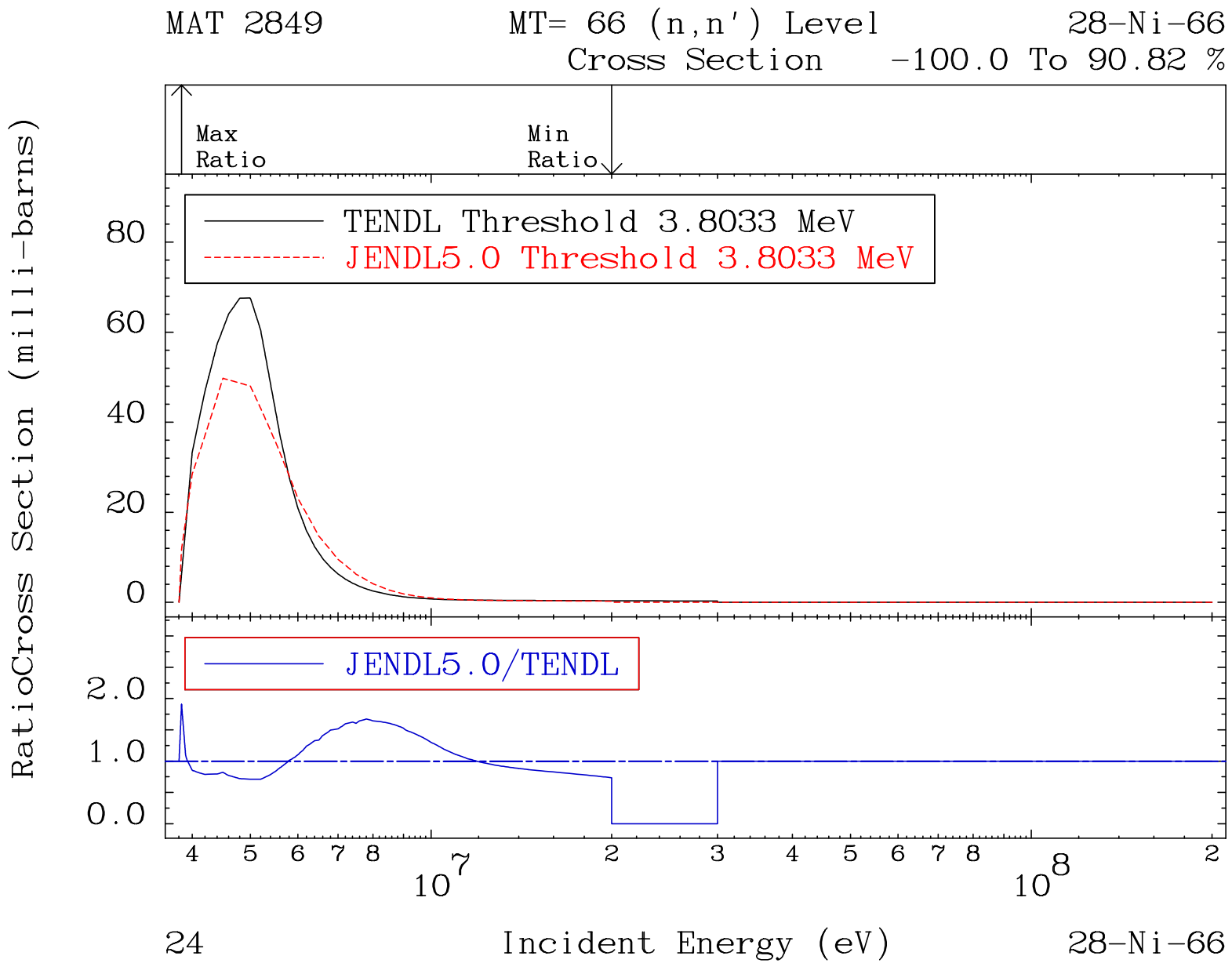

MAT 2849
MT= 61 (n,n') Level
28-Ni-66
Cross Section -100.0 To 371.7 %
Max Ratio
Min Ratio
TENDL Threshold 3.5955 MeV
JENDL5.0 Threshold 3.5955 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
4
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
28-Ni-66

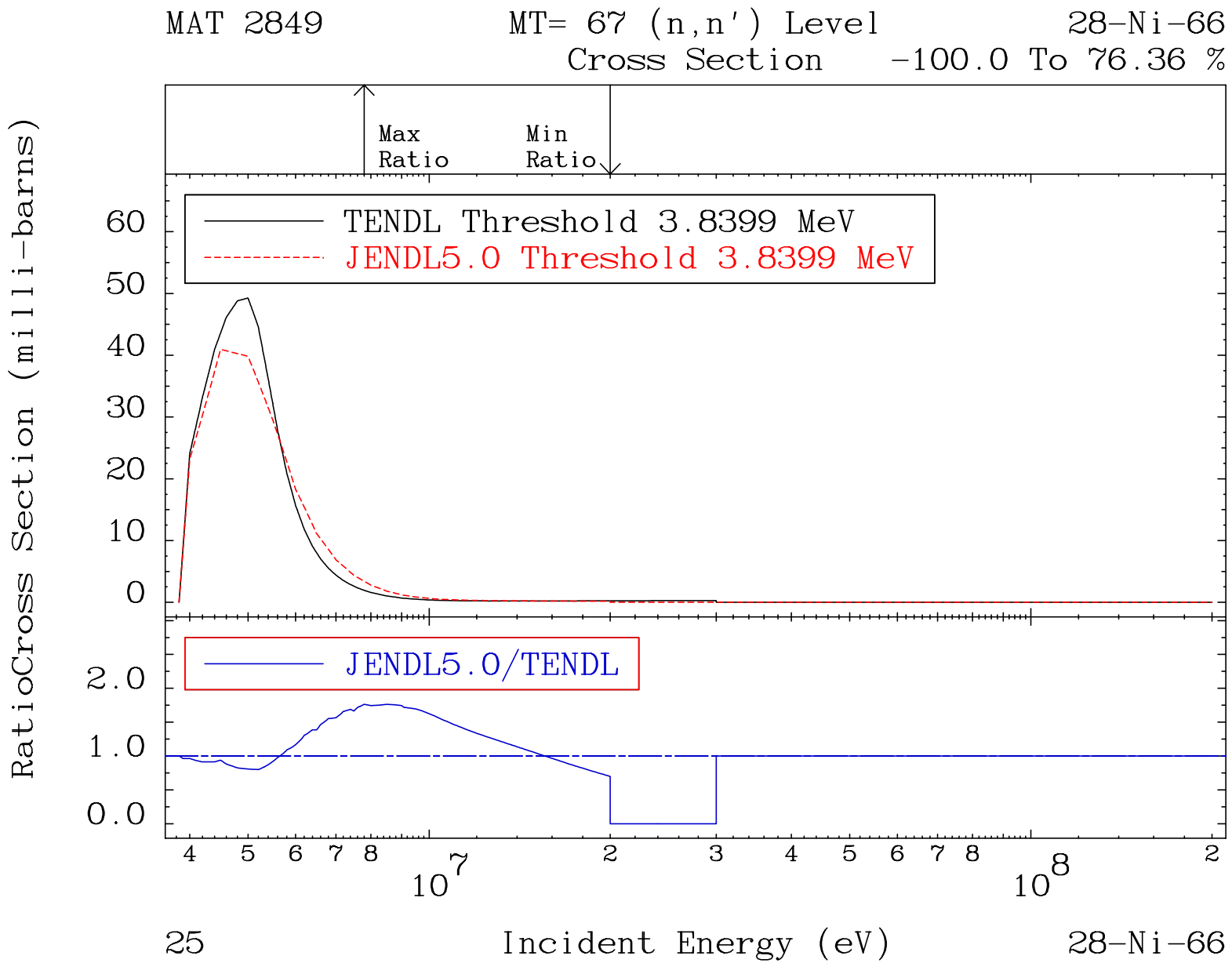

MAT 2849
MT= 62 (n,n') Level
28-Ni-66
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.6544 MeV
JENDL5.0 Threshold 3.6544 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
20
28-Ni-66

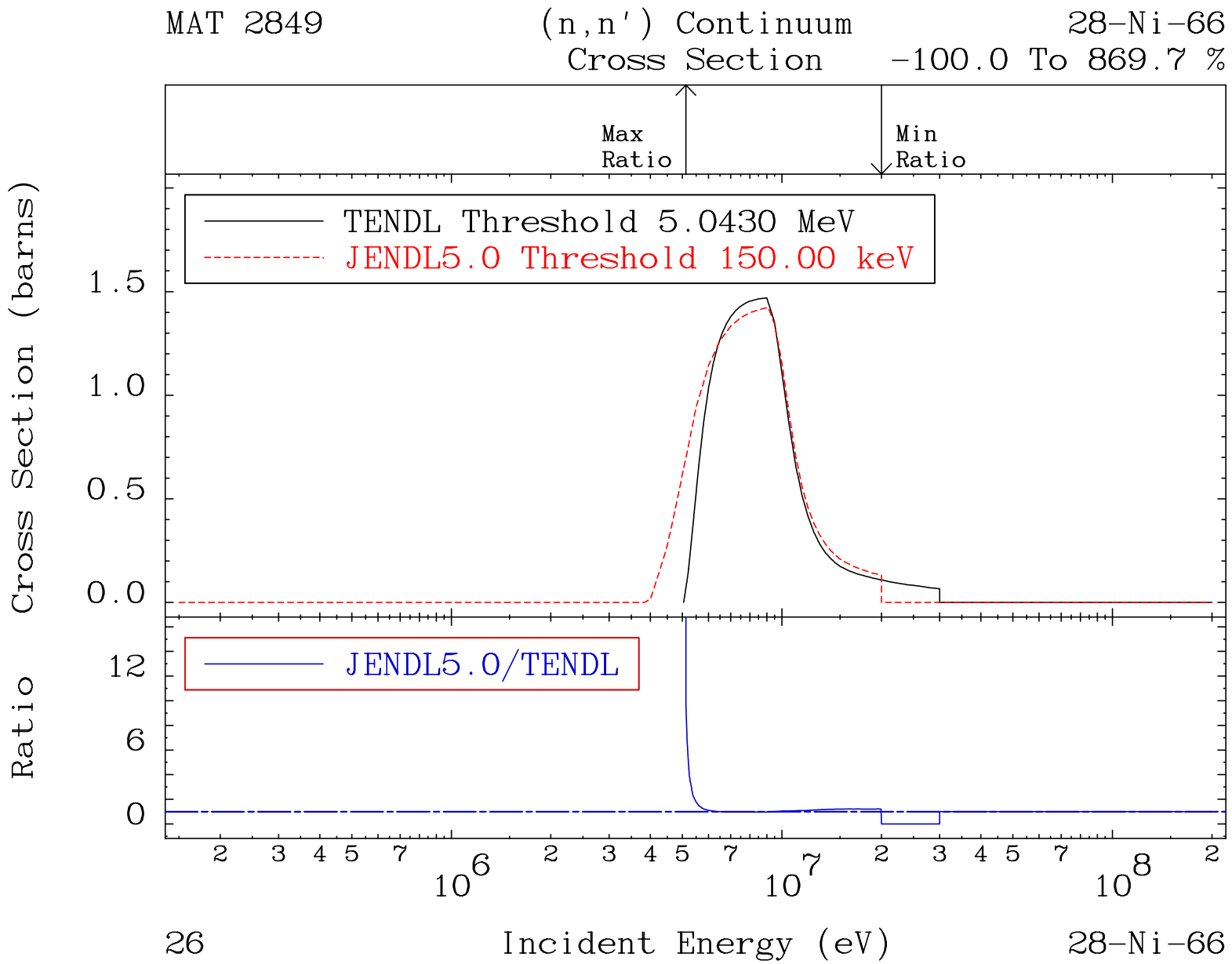

MAT 2849
MT= 63 (n,n') Level
28-Ni-66
Cross Section -100.0 To 145.3 %
Max Ratio
Min Ratio
TENDL Threshold 3.7018 MeV
JENDL5.0 Threshold 3.7018 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
21
28-Ni-66

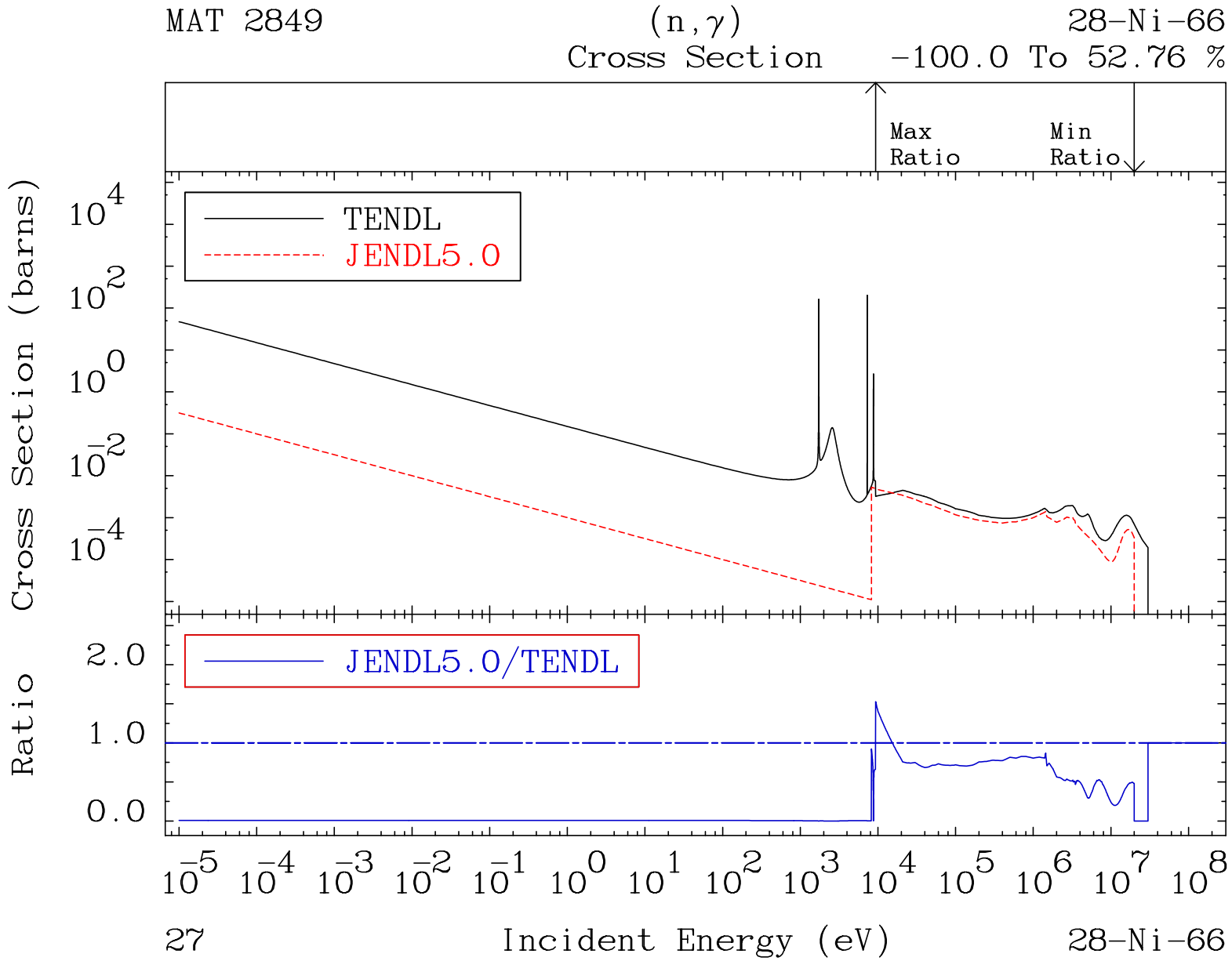

MAT 2849
MT= 64 (n,n') Level
28-Ni-66
Cross Section -100.0 To 125.0 %
Max Ratio
Min Ratio
TENDL Threshold 3.7343 MeV
JENDL5.0 Threshold 3.7343 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
3.0
2.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
28-Ni-66

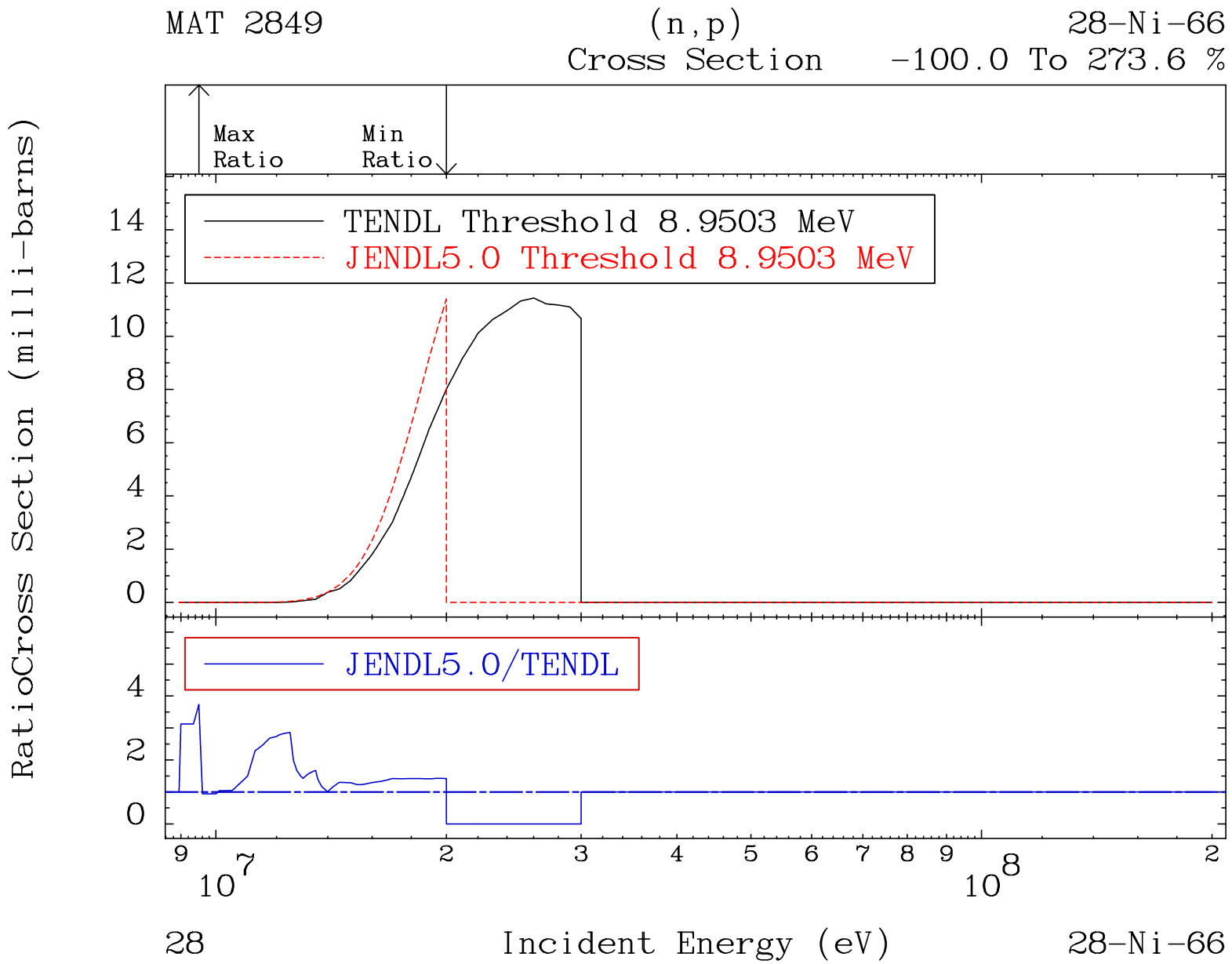

MAT 2849
MT= 65 (n,n') Level
28-Ni-66
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.7822 MeV
JENDL5.0 Threshold 3.7822 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
4
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
28-Ni-66

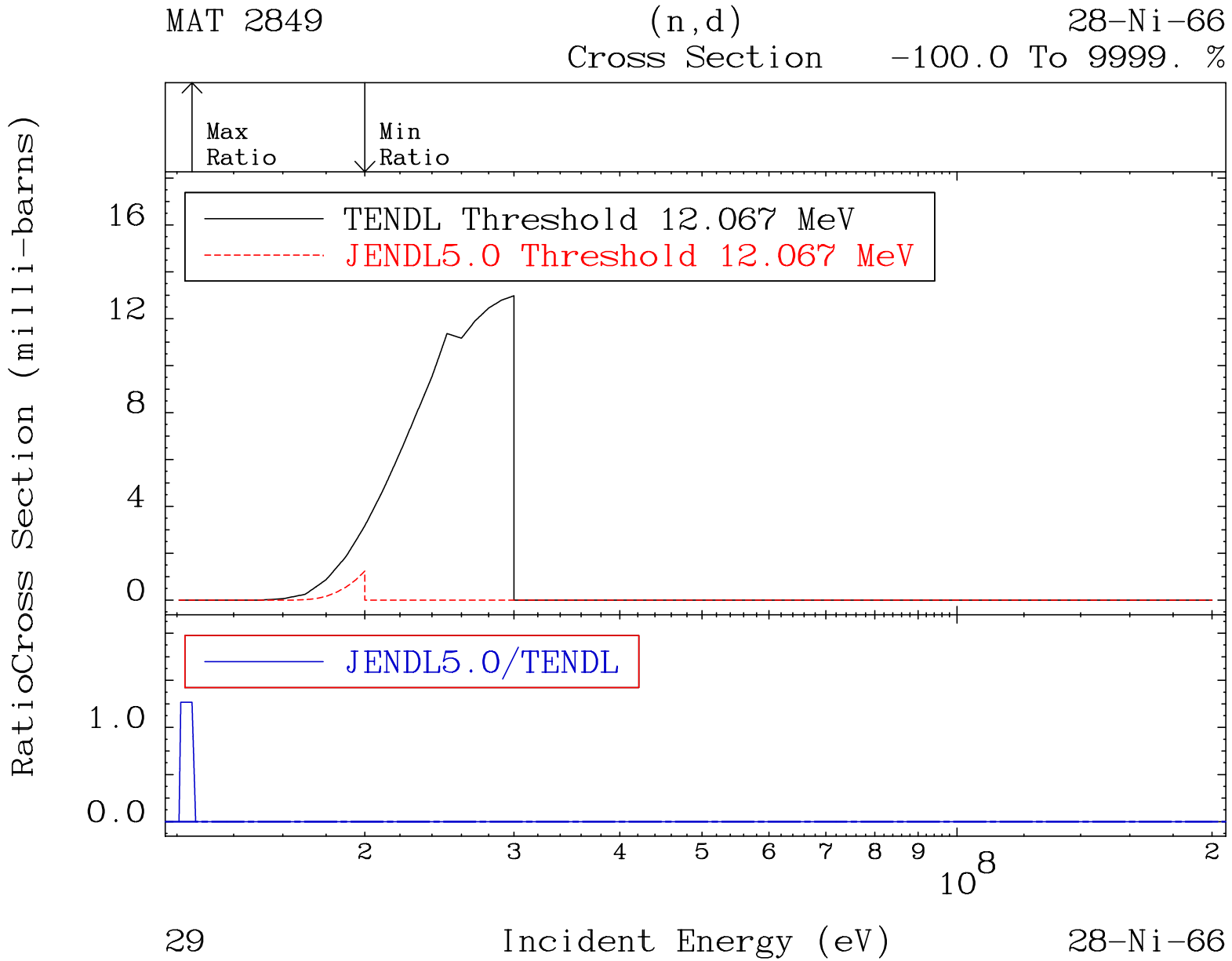

MAT 2849
MT= 66 (n,n') Level
28-Ni-66
Cross Section -100.0 To 90.82 %
Max Ratio
Min Ratio
TENDL Threshold 3.8033 MeV
JENDL5.0 Threshold 3.8033 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
28-Ni-66

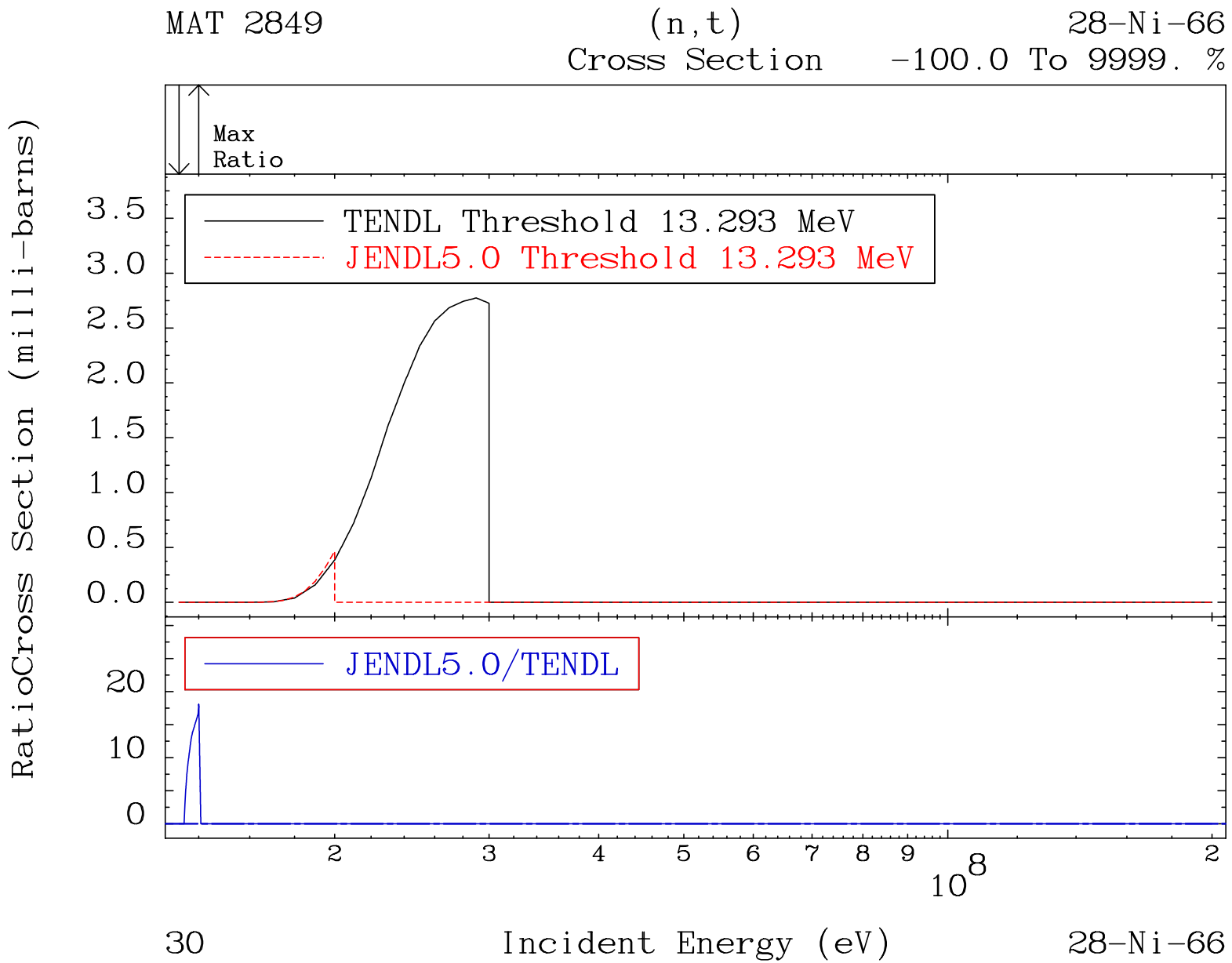

MAT 2849
MT= 67 (n,n') Level
28-Ni-66
Cross Section -100.0 To 76.36 %
Max Ratio
Min Ratio
TENDL Threshold 3.8399 MeV
JENDL5.0 Threshold 3.8399 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
2.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
28-Ni-66

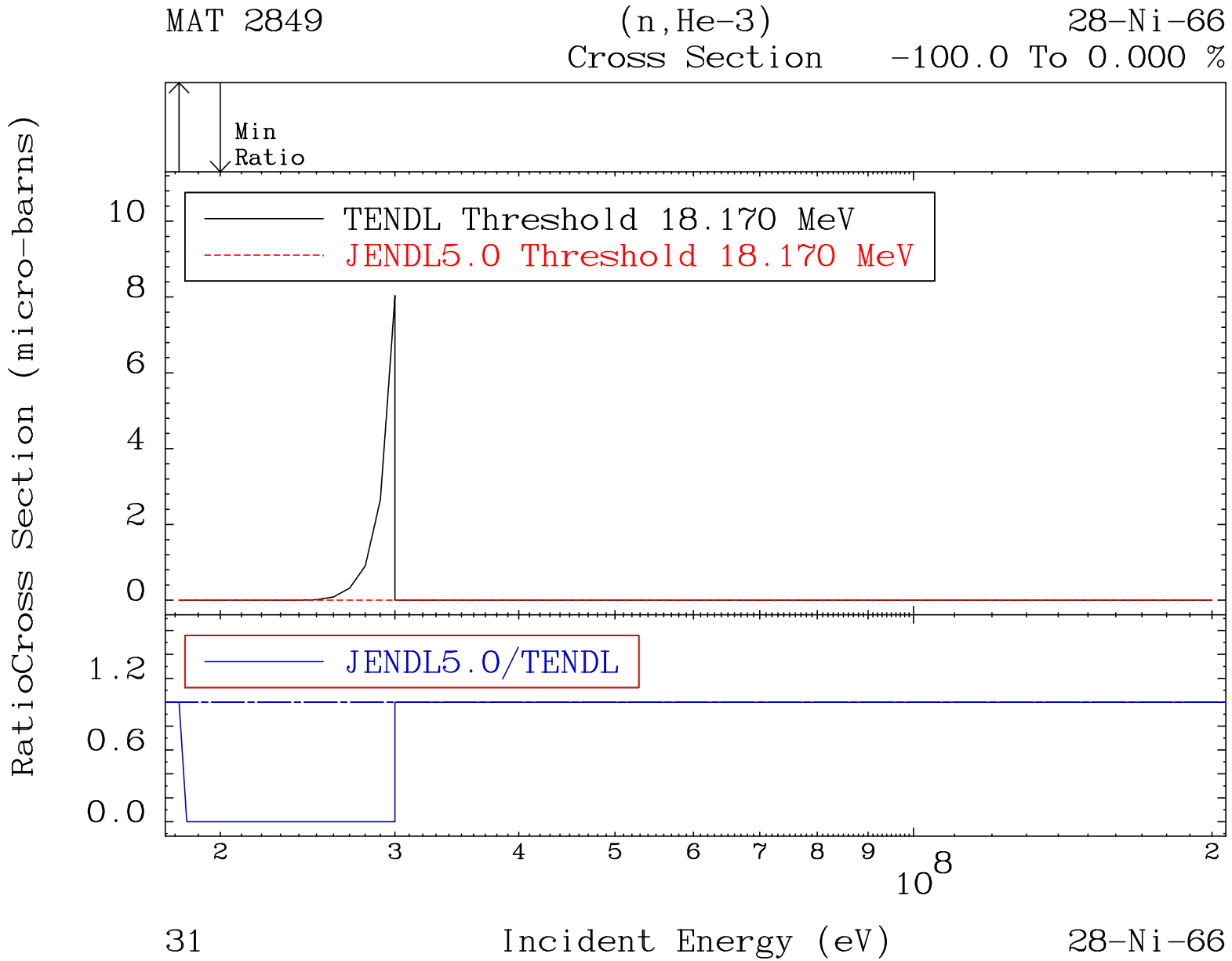

MAT 2849
(n,n') Continuum
Cross Section
28-Ni-66
-100.0 To 869.7 %
Max Ratio
Min Ratio
TENDL Threshold 5.0430 MeV
JENDL5.0 Threshold 150.00 keV
Cross Section (barns)
1.5
1.0
0.5
0.0
JENDL5.0/TENDL
Ratio
12
6
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
26
Incident Energy (eV)
28-Ni-66

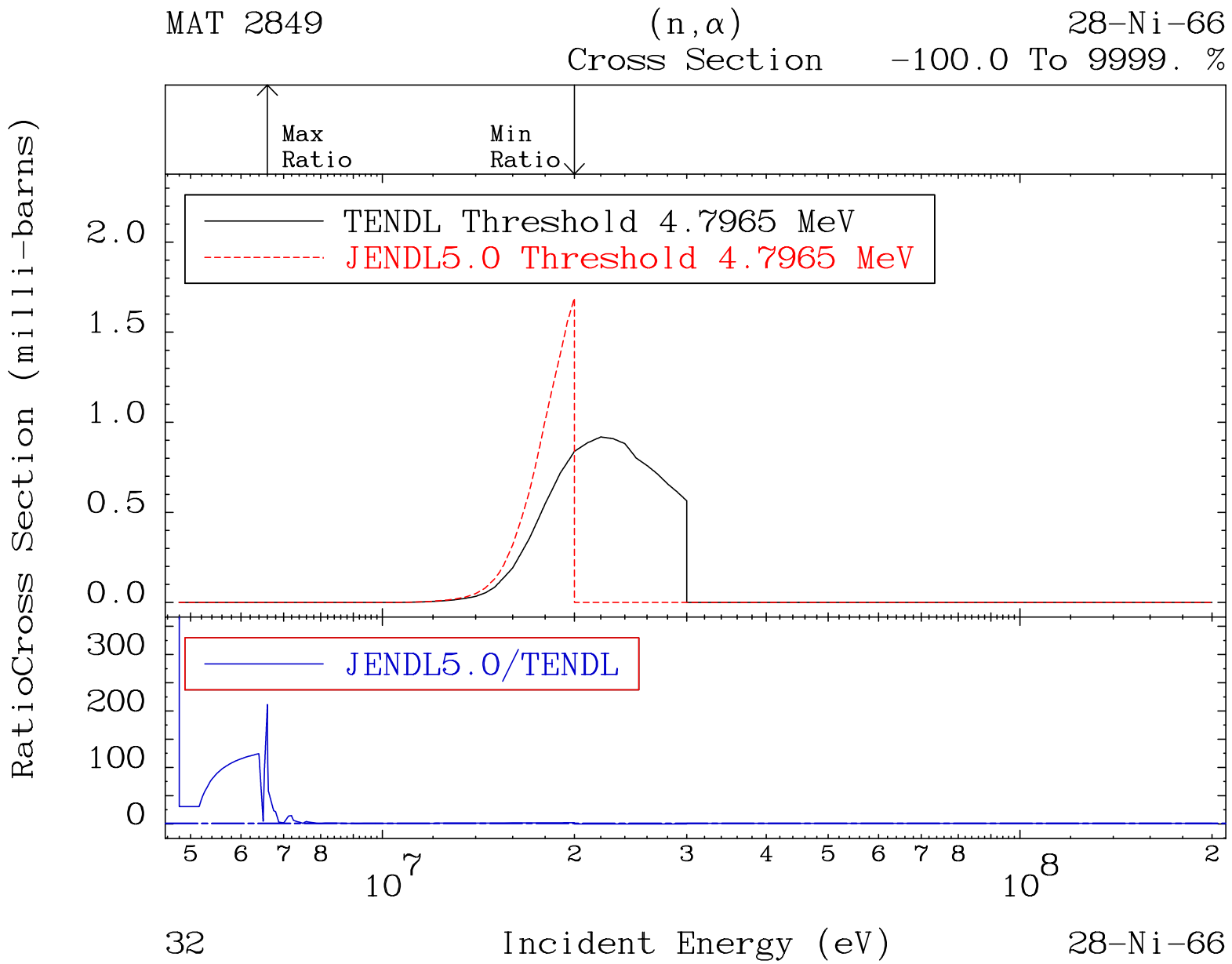

MAT 2849
(n,γ)
Cross Section
28-Ni-66
-100.0 To 52.76 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^4
10^2
10^0
10^-2
10^-4
JENDL5.0/TENDL
Ratio
2.0
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
27
Incident Energy (eV)
28-Ni-66

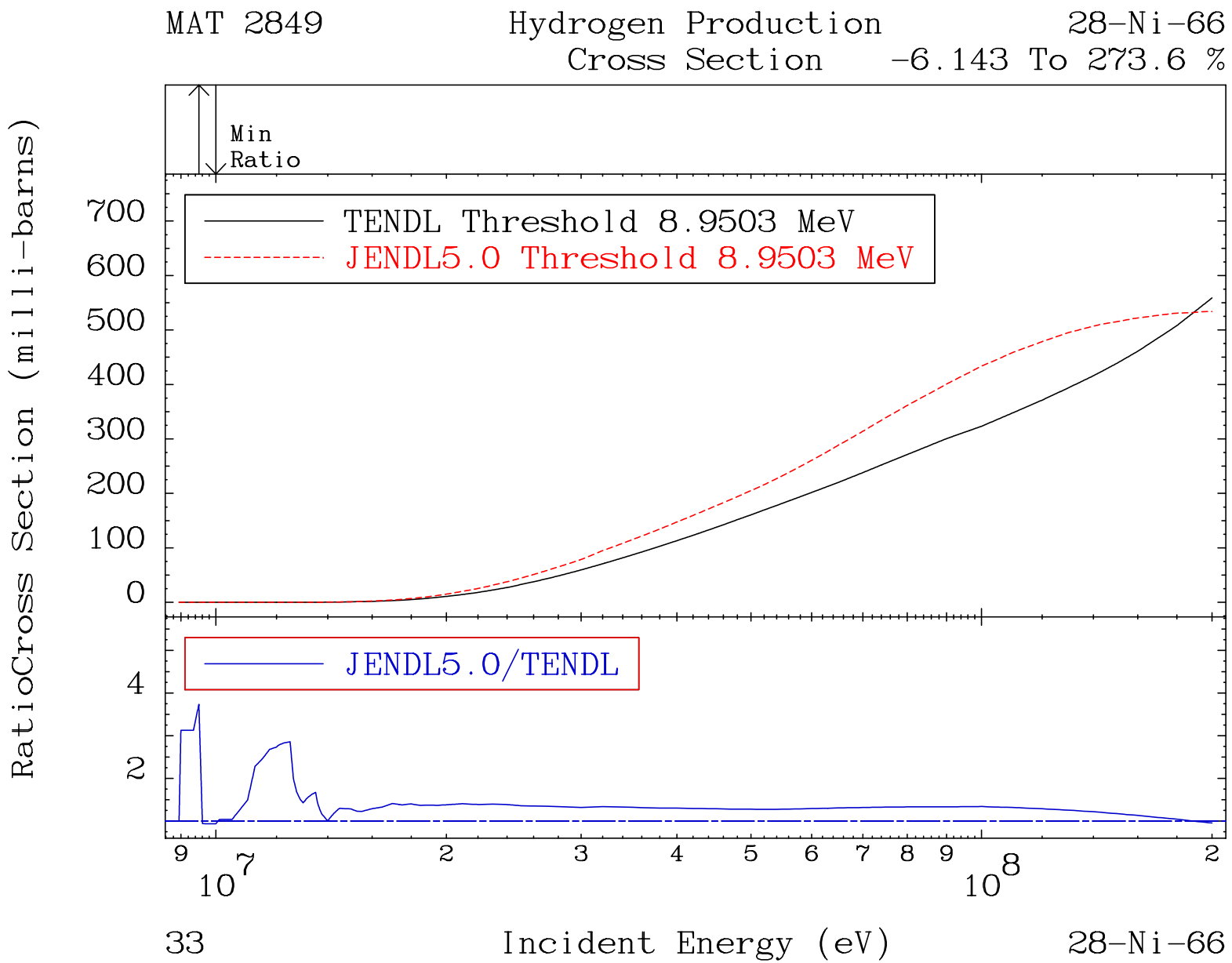

MAT 2849
(n,p)
28-Ni-66
Cross Section
-100.0 To 273.6 %
Max Ratio
Min Ratio
TENDL Threshold 8.9503 MeV
JENDL5.0 Threshold 8.9503 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
14
12
10
8
6
4
2
0
4
2
0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
28
Incident Energy (eV)
28-Ni-66

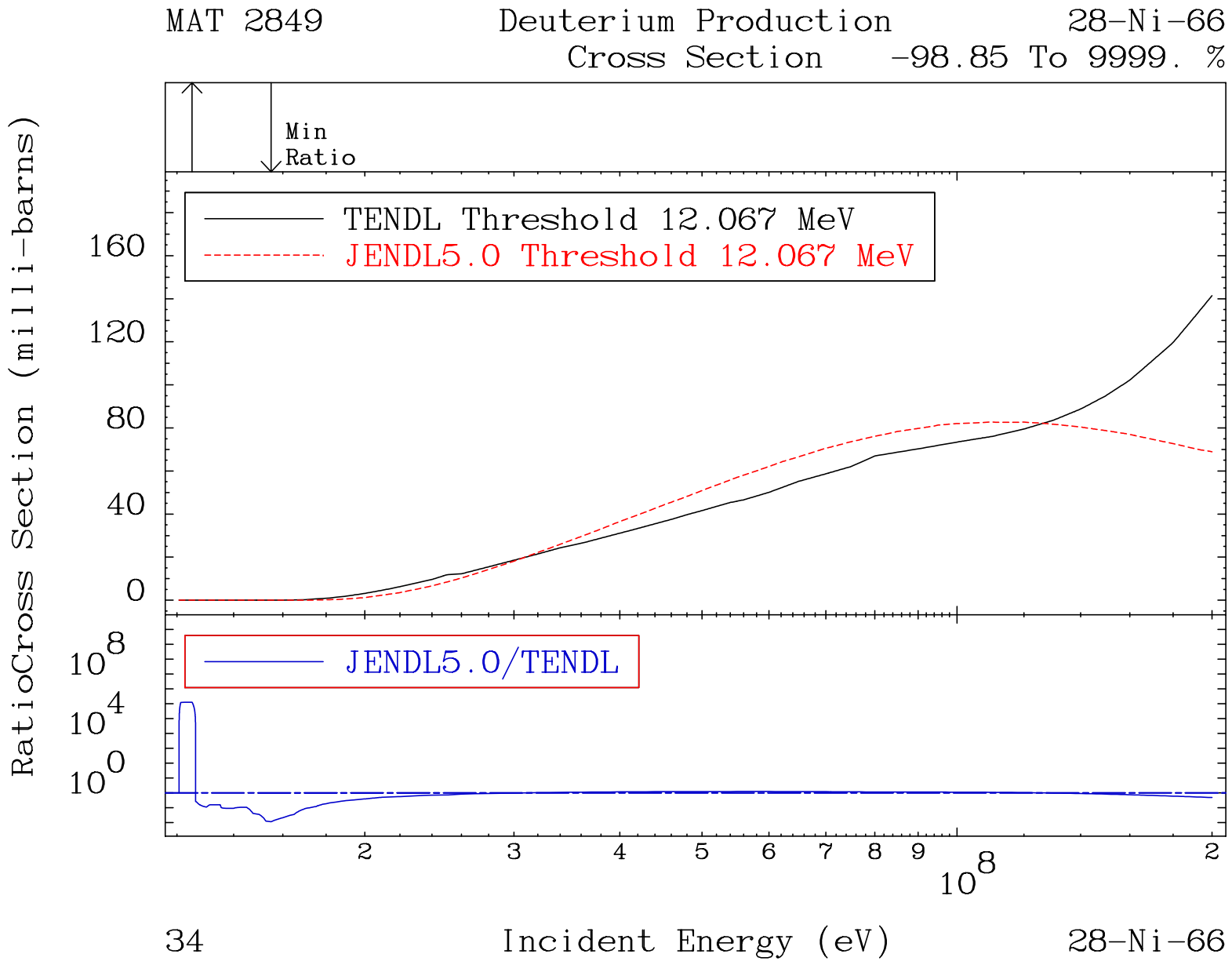

MAT 2849
(n,d)
28-Ni-66
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 12.067 MeV
JENDL5.0 Threshold 12.067 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
29
Incident Energy (eV)
28-Ni-66

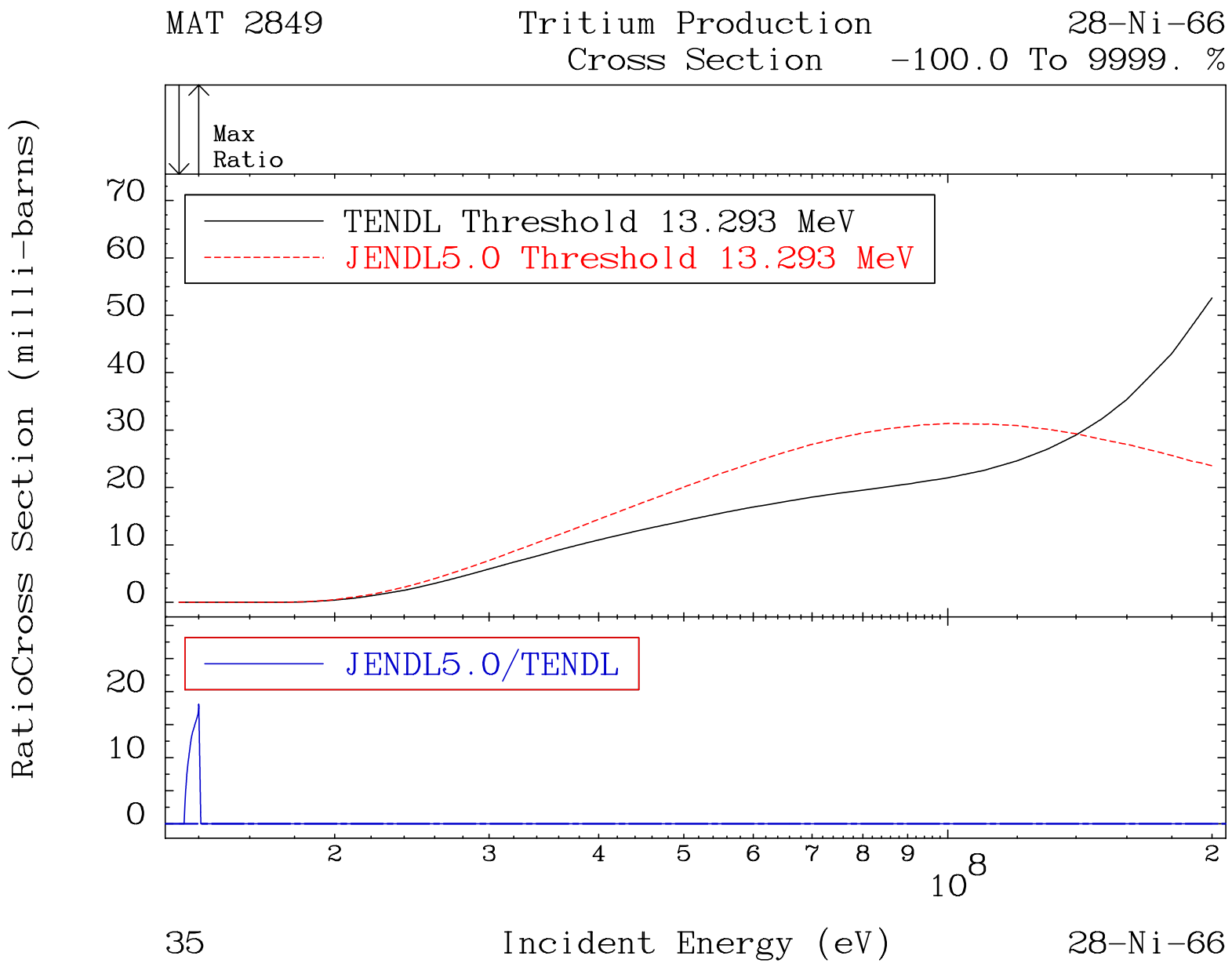

MAT 2849
(n,t)
28-Ni-66
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 13.293 MeV
JENDL5.0 Threshold 13.293 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
20
10
0
2
3
4
5
6
7
8
9
10^8
2
30
Incident Energy (eV)
28-Ni-66

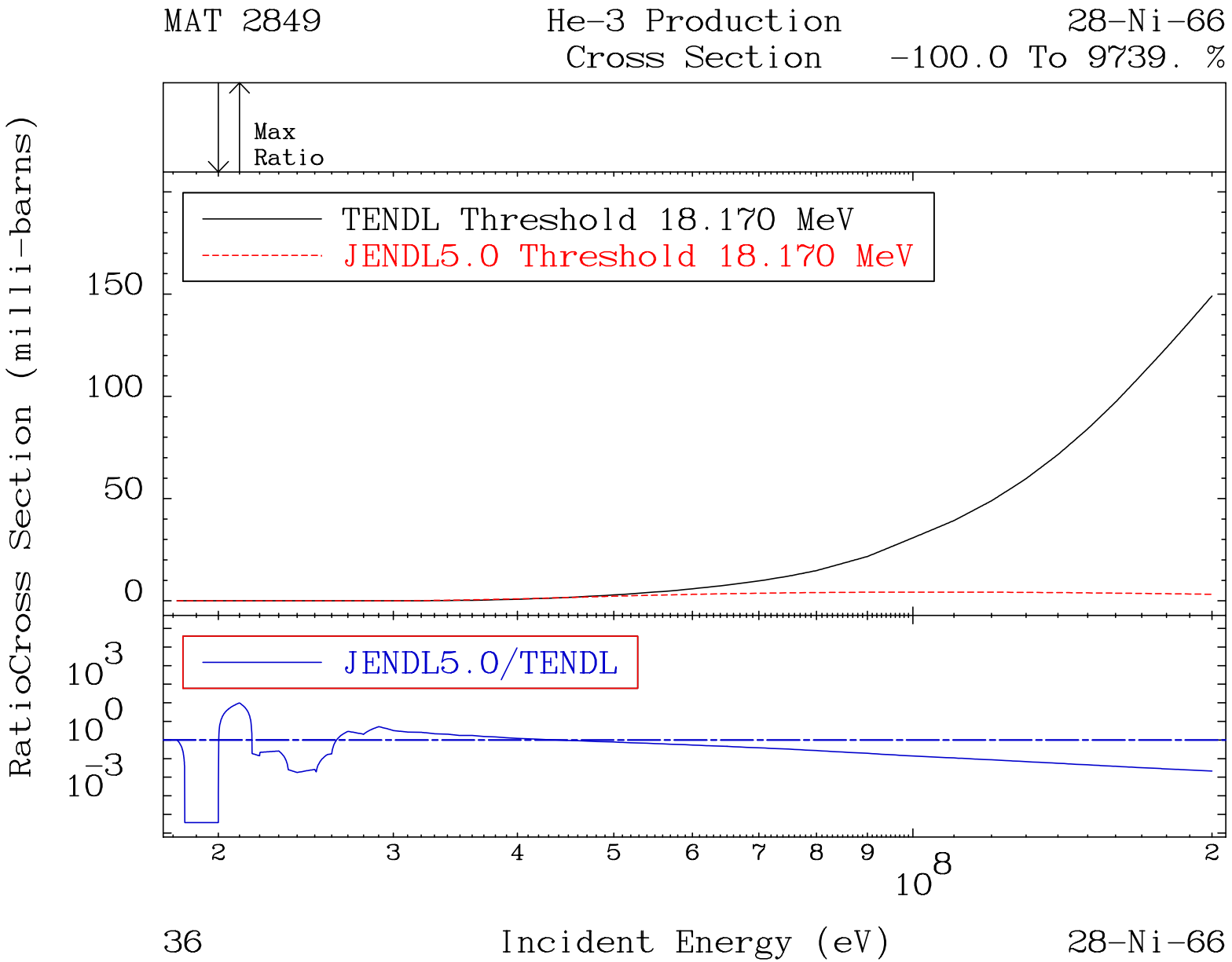

MAT 2849
(n,He-3)
Cross Section
28-Ni-66
-100.0 To 0.000 %
Min
Ratio
TENDL Threshold 18.170 MeV
JENDL5.0 Threshold 18.170 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
10
8
6
4
2
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
31
Incident Energy (eV)
28-Ni-66

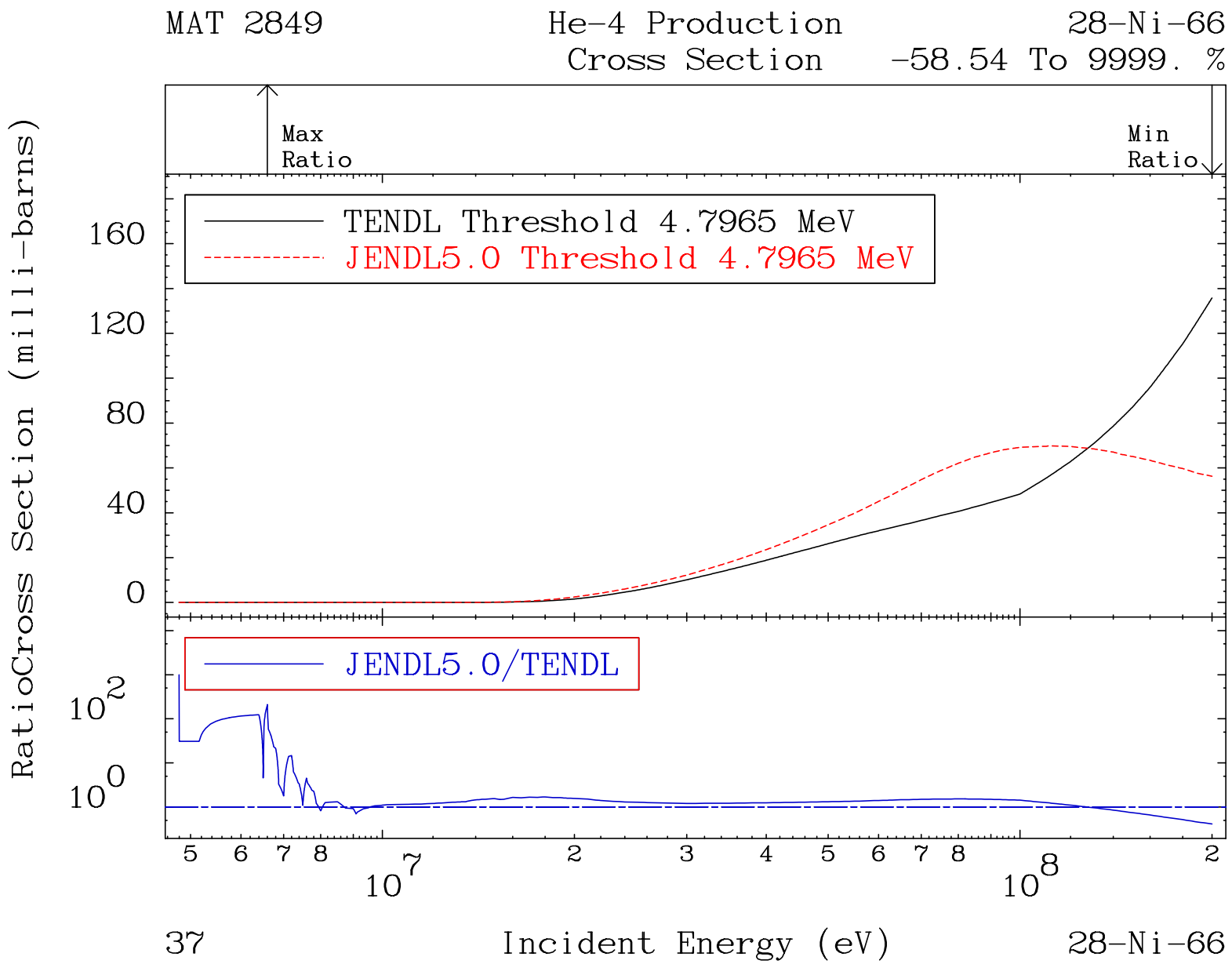

MAT 2849
(n,α)
28-Ni-66
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 4.7965 MeV
JENDL5.0 Threshold 4.7965 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
300
200
100
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
32
Incident Energy (eV)
28-Ni-66

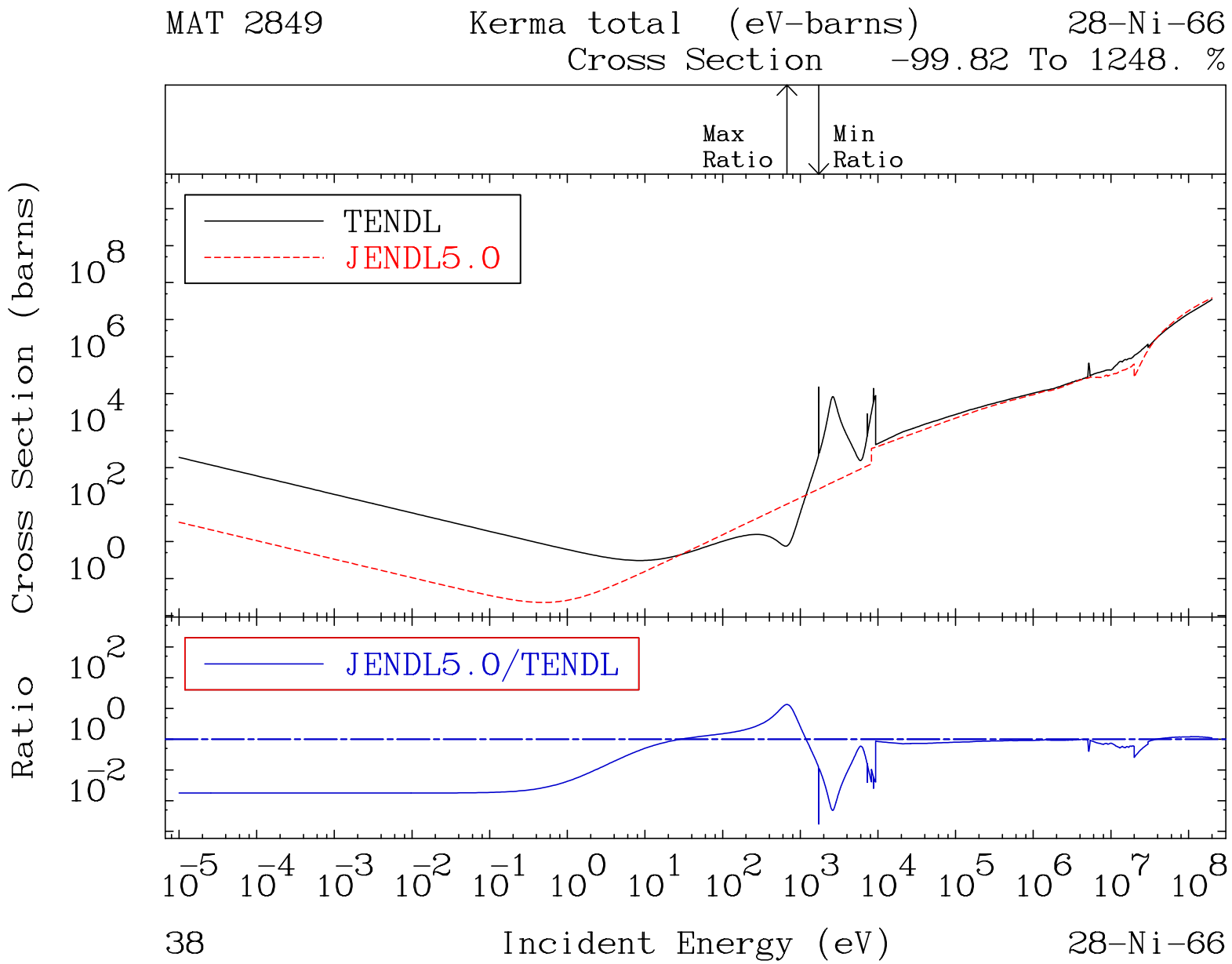

MAT 2849
Hydrogen Production
28-Ni-66
Cross Section
-6.143 To 273.6 %
Min
Ratio
TENDL Threshold 8.9503 MeV
JENDL5.0 Threshold 8.9503 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
700
600
500
400
300
200
100
0
4
2
9
10^7
2
3
4
5
6
7
8
9
10^8
2
33
Incident Energy (eV)
28-Ni-66

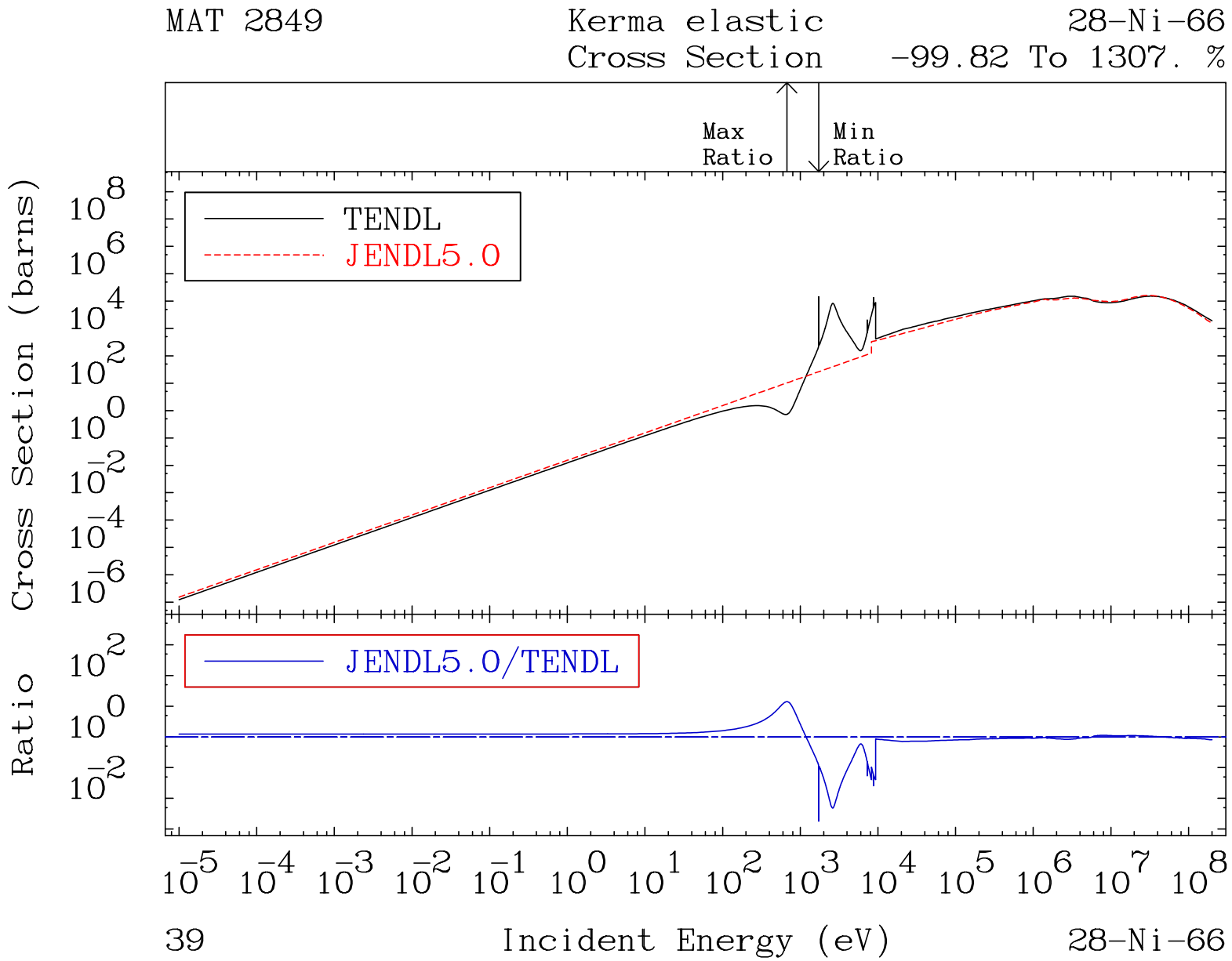

MAT 2849
Deuterium Production
28-Ni-66
Cross Section -98.85 To 9999. %
Min
Ratio
TENDL Threshold 12.067 MeV
JENDL5.0 Threshold 12.067 MeV
160
120
80
40
0
JENDL5.0/TENDL
10^8
10^4
10^0
2
3
4
5
6
7
8
9
10^8
2
RatioCross Section (milli-barns)
34
Incident Energy (eV)
28-Ni-66

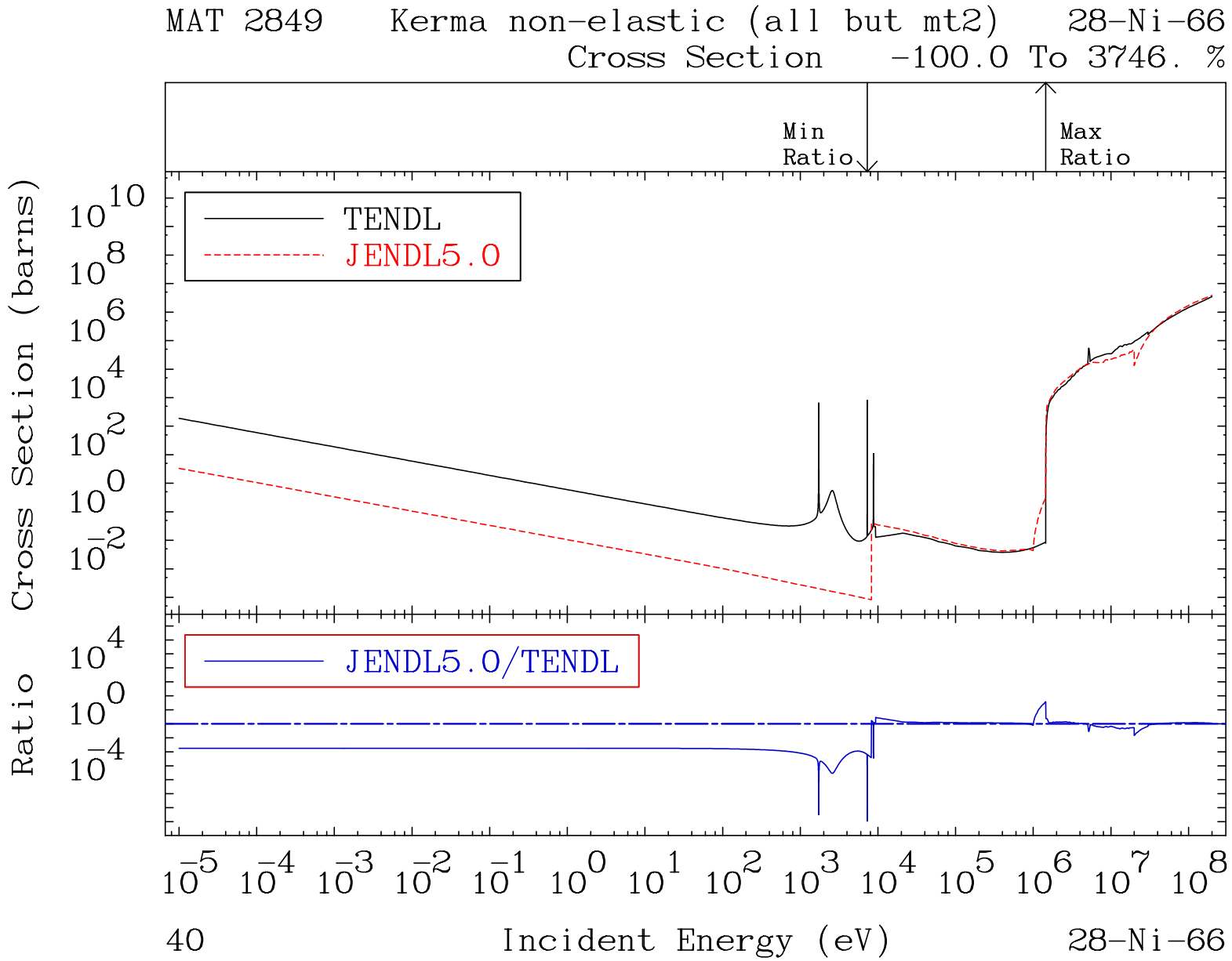

MAT 2849
Tritium Production
28-Ni-66
Cross Section
-100.0 To 9999. %
Max
Ratio
70
60
50
40
30
20
10
0
TENDL Threshold 13.293 MeV
JENDL5.0 Threshold 13.293 MeV
JENDL5.0/TENDL
20
10
0
2
3
4
5
6
7
8
9
10^8
2
RatioCross Section (milli-barns)
35
Incident Energy (eV)
28-Ni-66

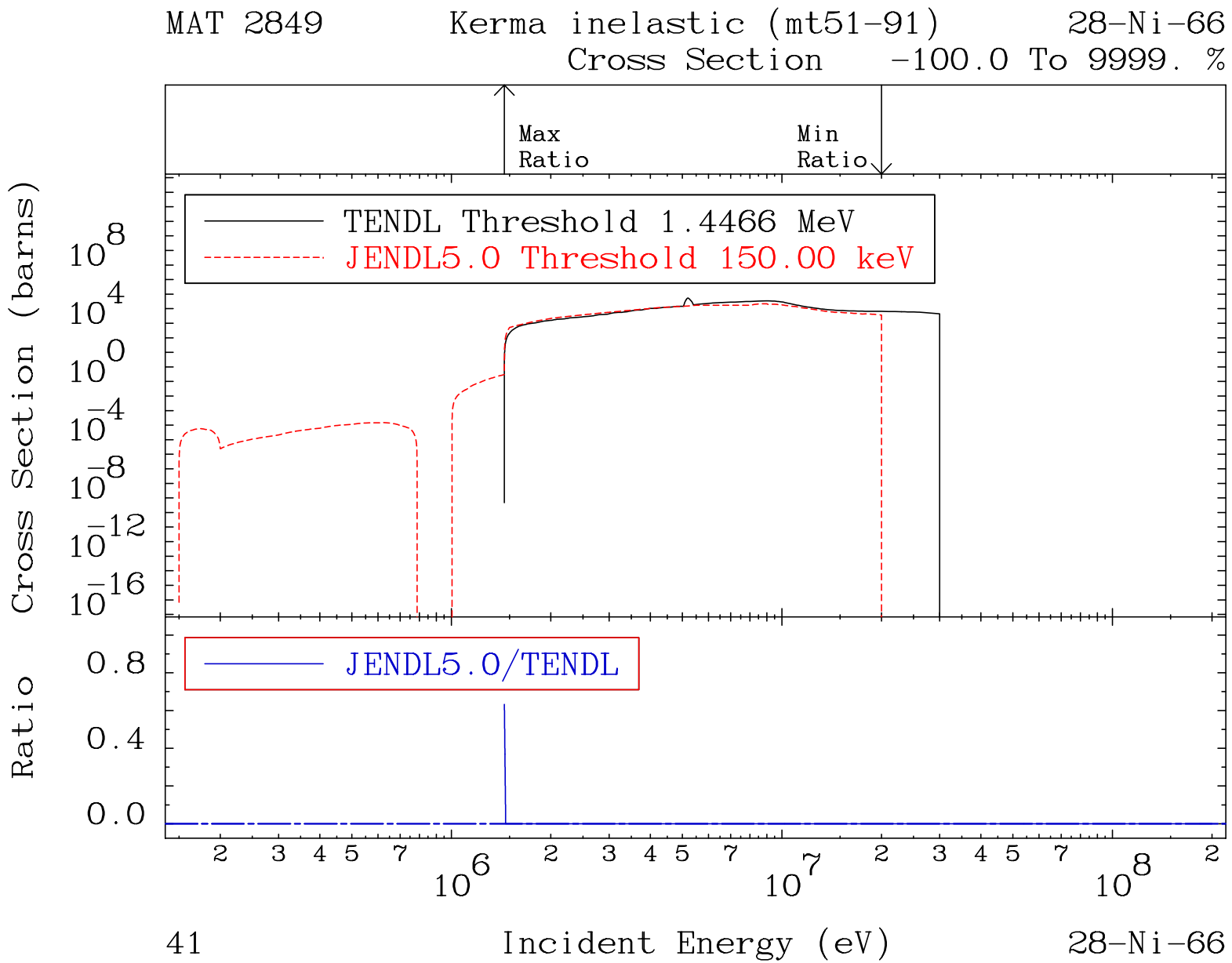

MAT 2849
He-3 Production
Cross Section
28-Ni-66
-100.0 To 9739. %
Max
Ratio
TENDL Threshold 18.170 MeV
JENDL5.0 Threshold 18.170 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
150
100
50
0
10^3
10^0
10^-3
2
3
4
5
6
7
8
9
10^8
2
36
Incident Energy (eV)
28-Ni-66

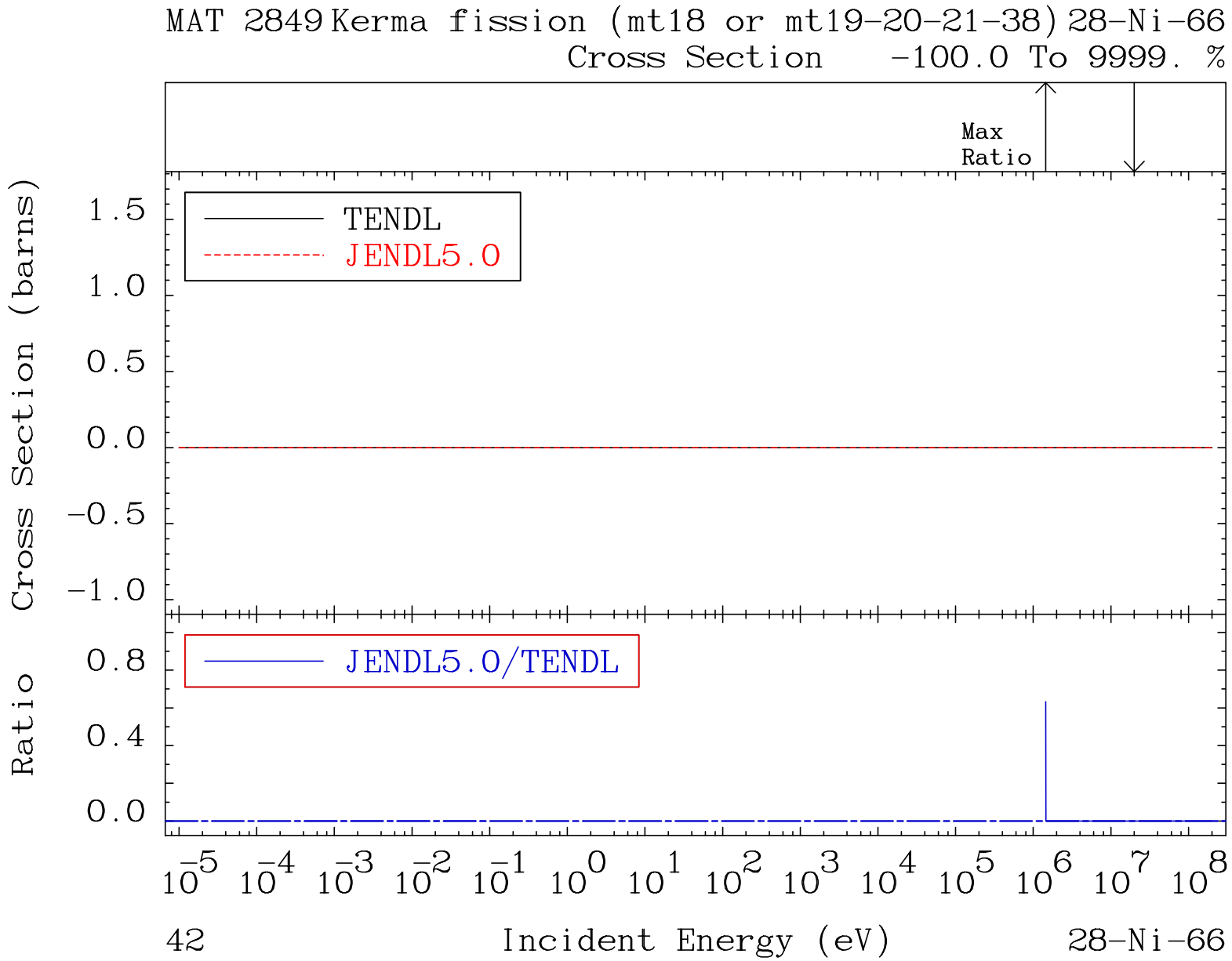

MAT 2849
He-4 Production
Cross Section
28-Ni-66
-58.54 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 4.7965 MeV
JENDL5.0 Threshold 4.7965 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
10^2
10^0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
37
Incident Energy (eV)
28-Ni-66

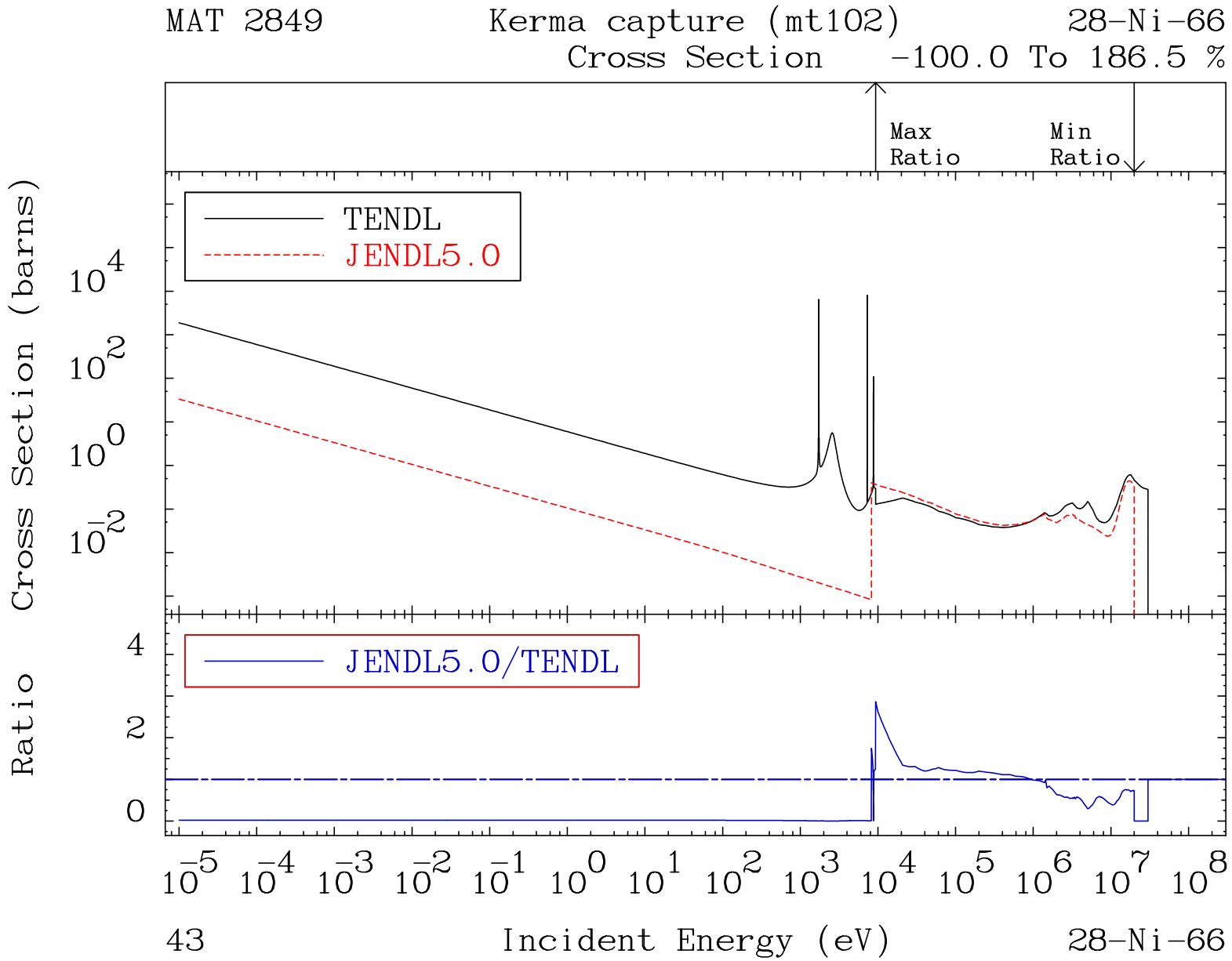

MAT 2849
Kerma total (eV-barns)
28-Ni-66
Cross Section -99.82 To 1248. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
38
28-Ni-66

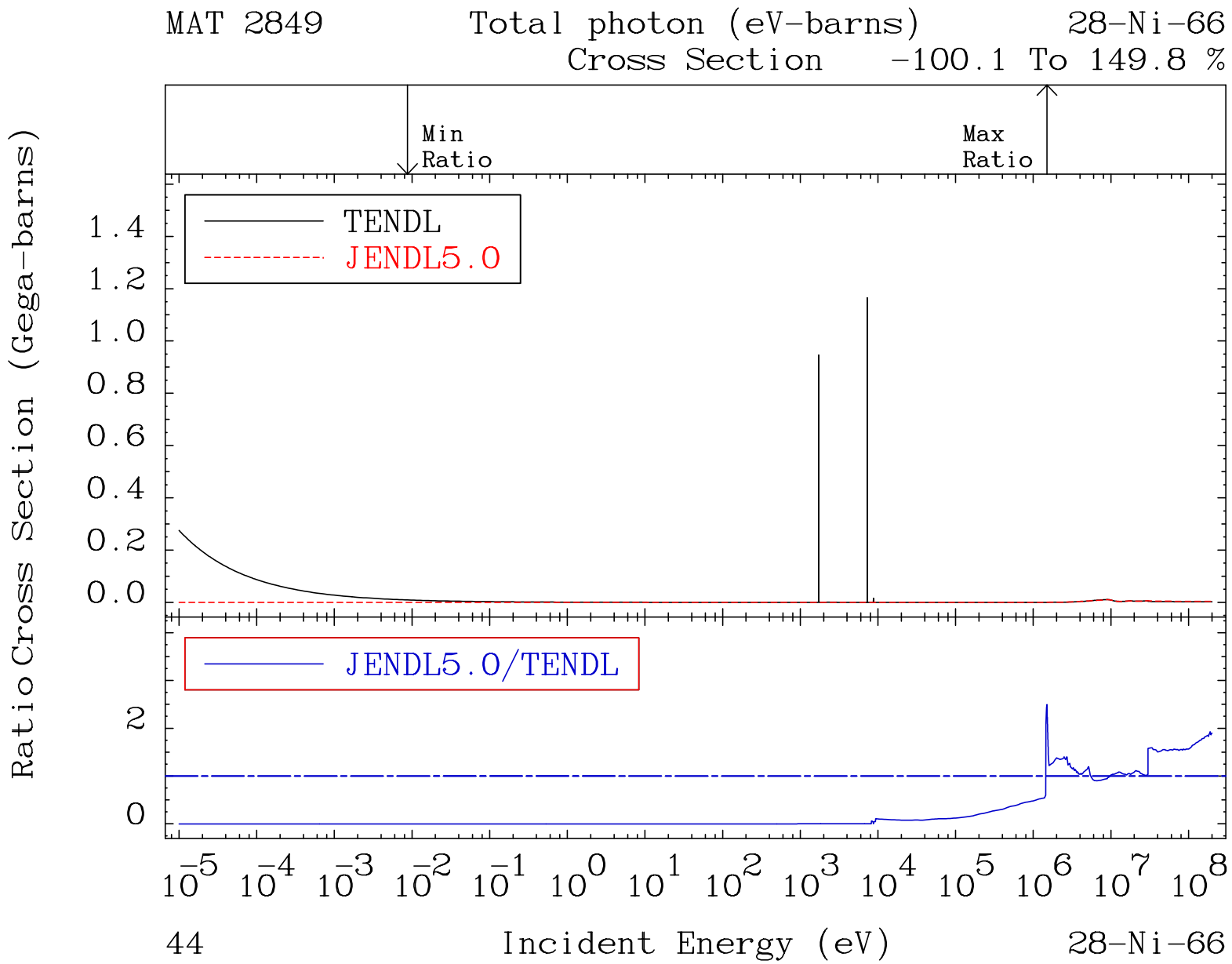

MAT 2849
Kerma elastic
Cross Section
28-Ni-66
-99.82 To 1307. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
39
28-Ni-66

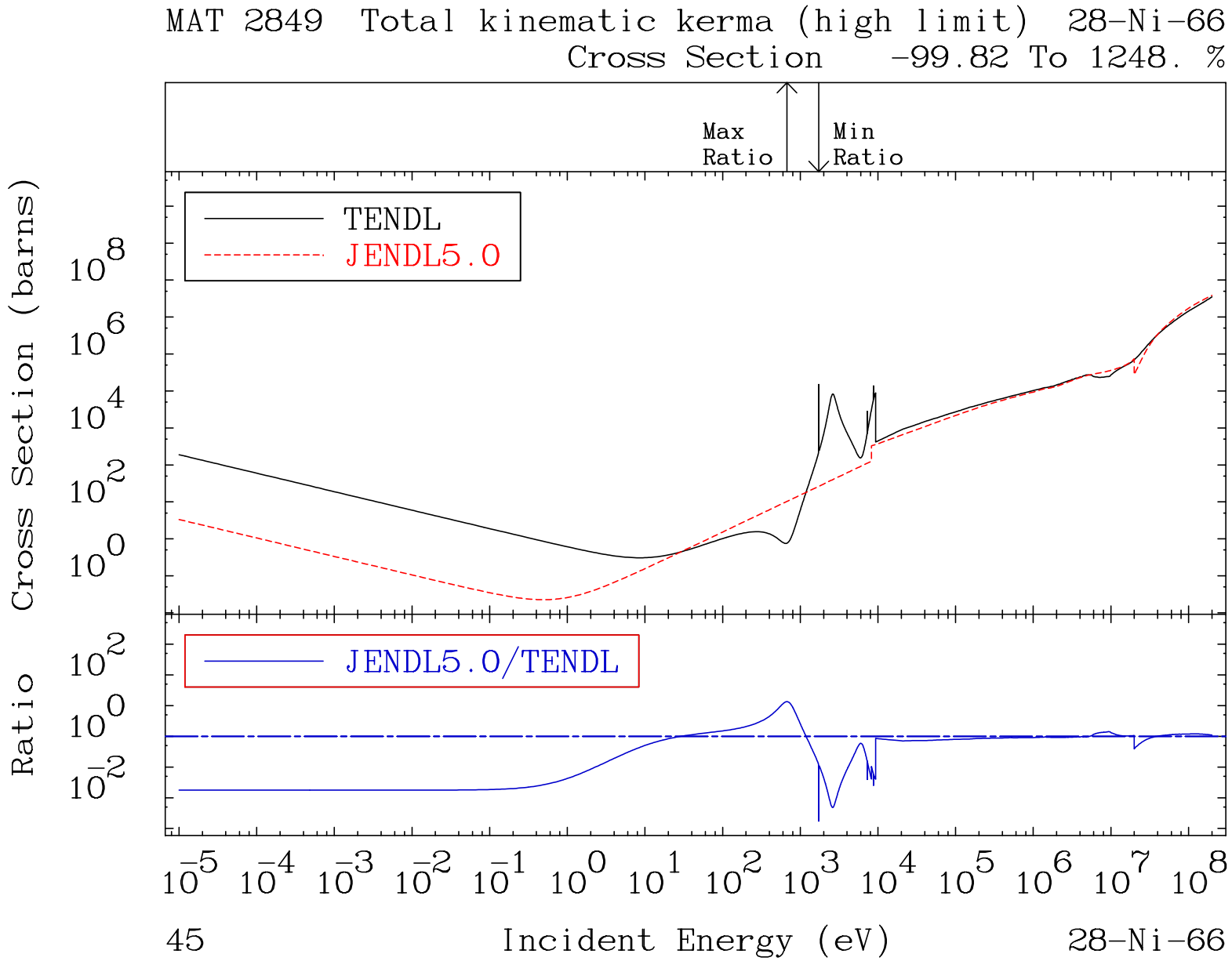

MAT 2849 Kerma non-elastic (all but mt2) 28-Ni-66
Cross Section -100.0 To 3746. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
40
28-Ni-66

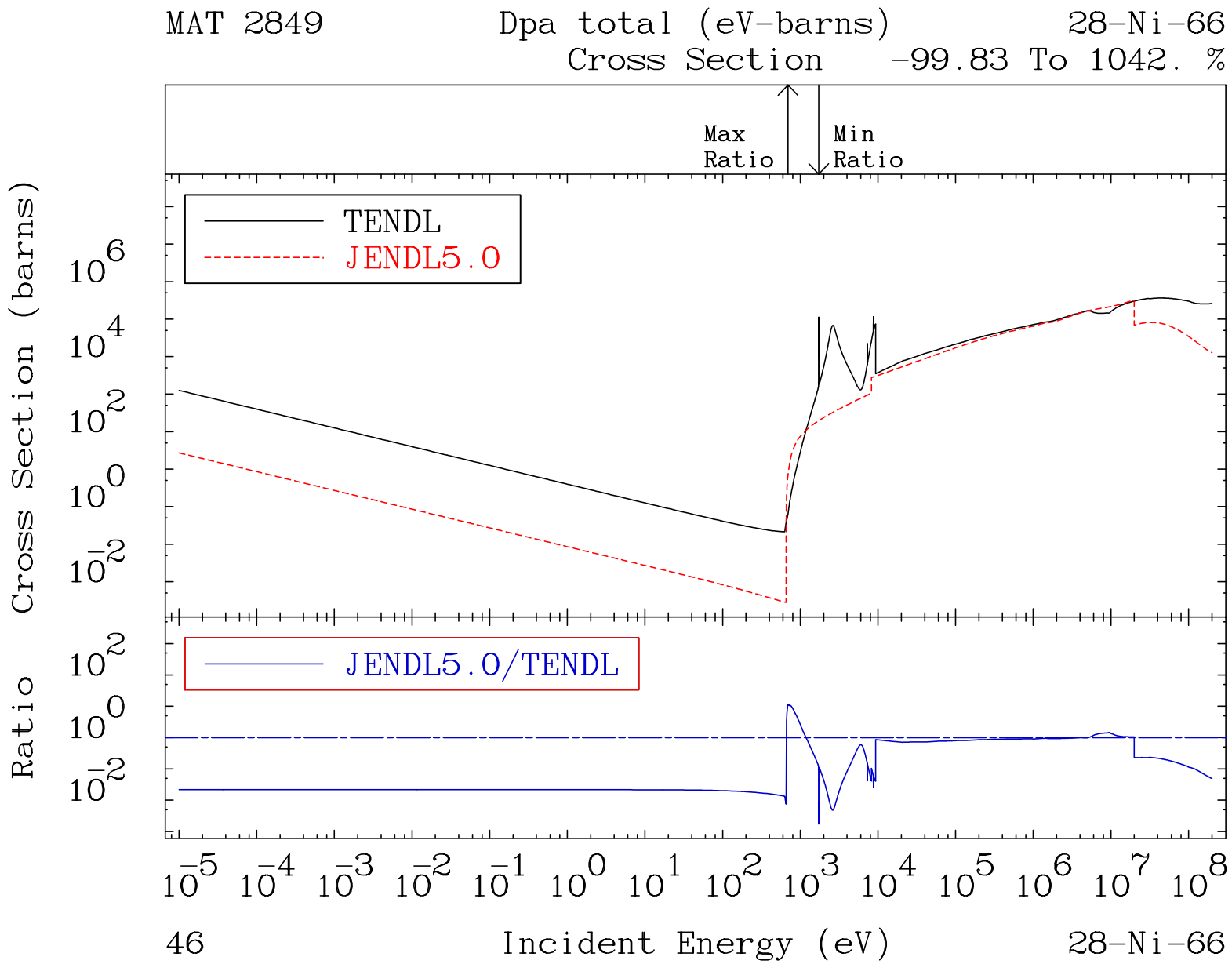

MAT 2849
Kerma inelastic (mt51-91)
28-Ni-66
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.4466 MeV
JENDL5.0 Threshold 150.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
41
28-Ni-66

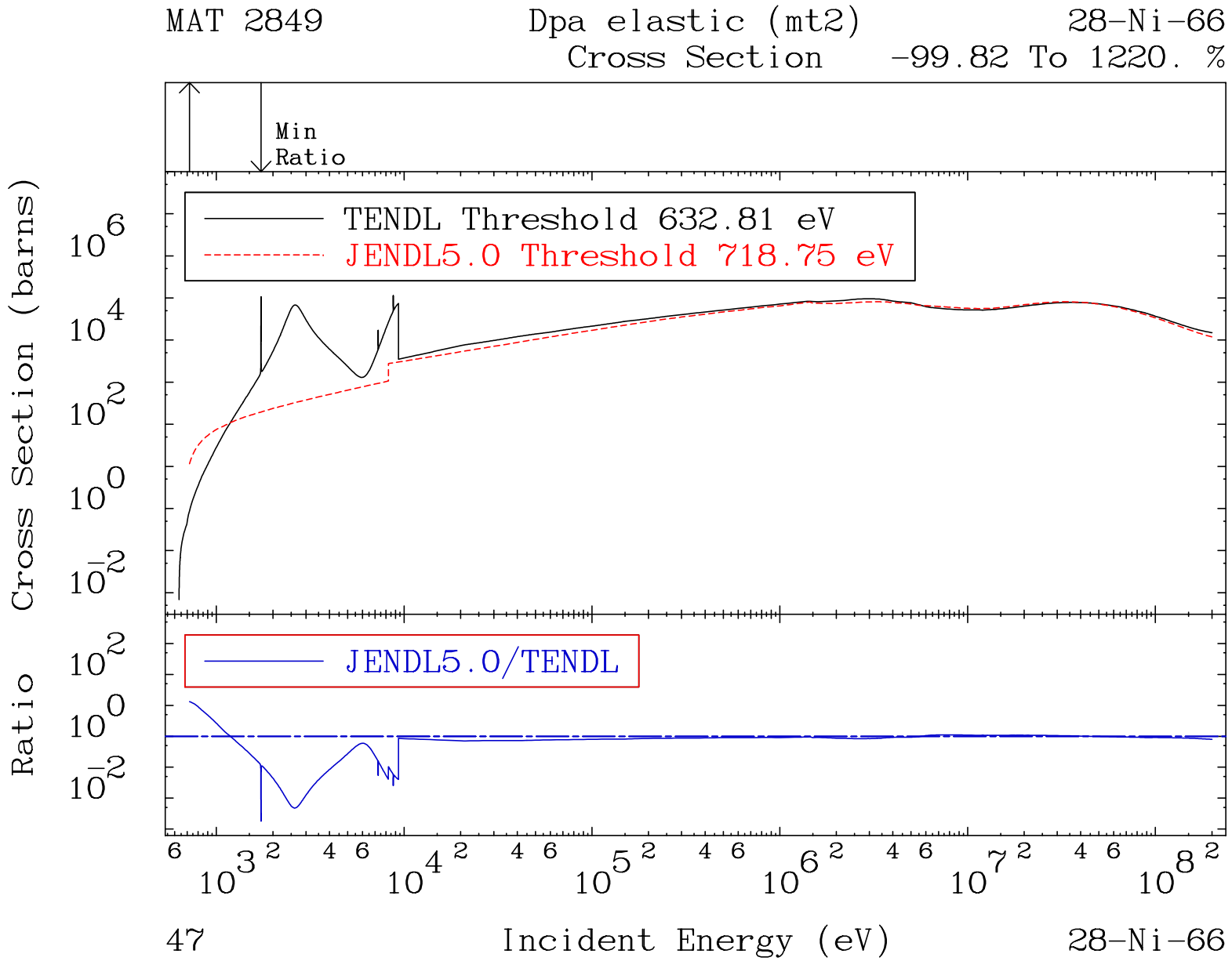

MAT 2849 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-66
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
0.8
0.4
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
Incident Energy (eV)
42
28-Ni-66

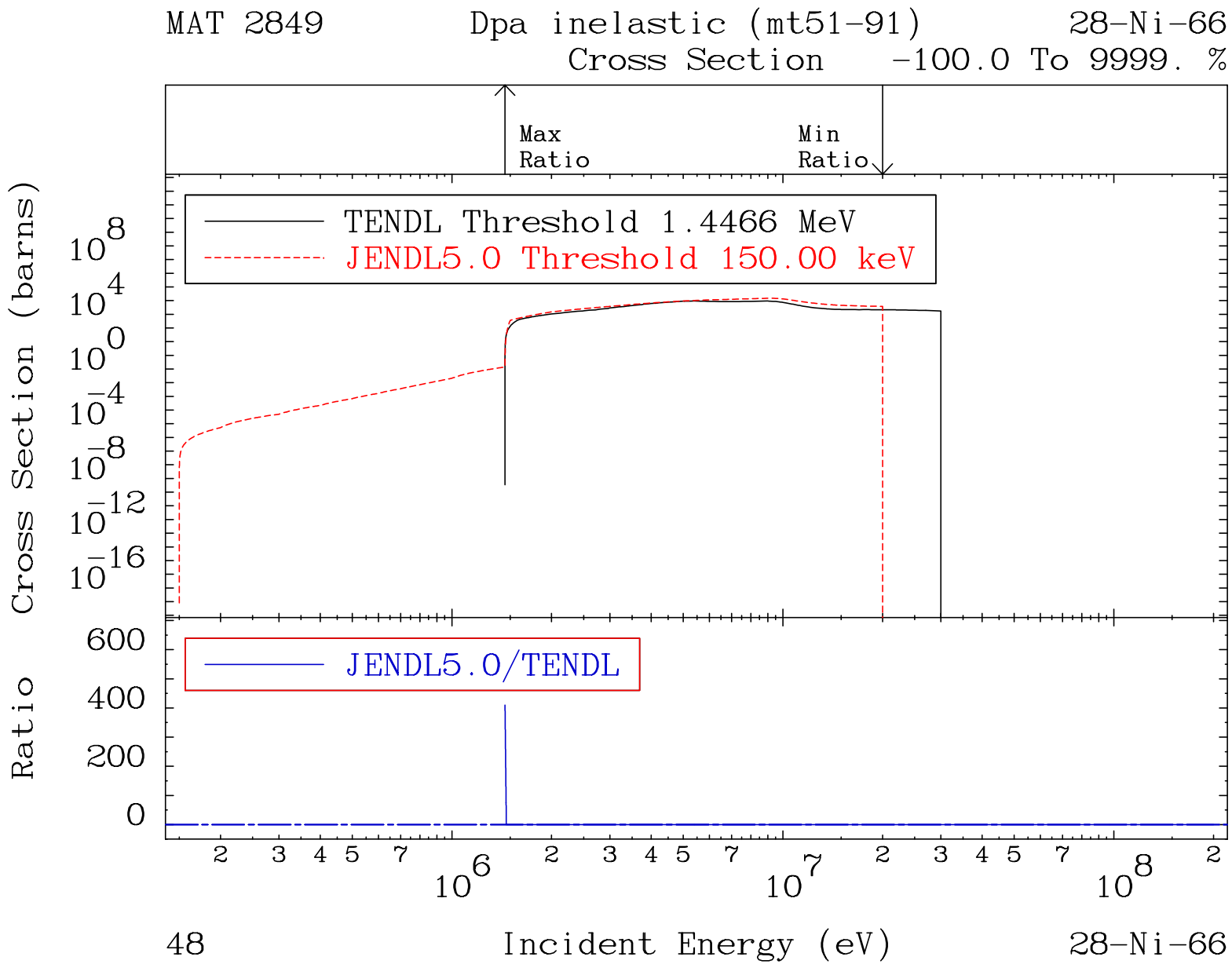

MAT 2849
Kerma capture (mt102)
28-Ni-66
Cross Section -100.0 To 186.5 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
43
28-Ni-66

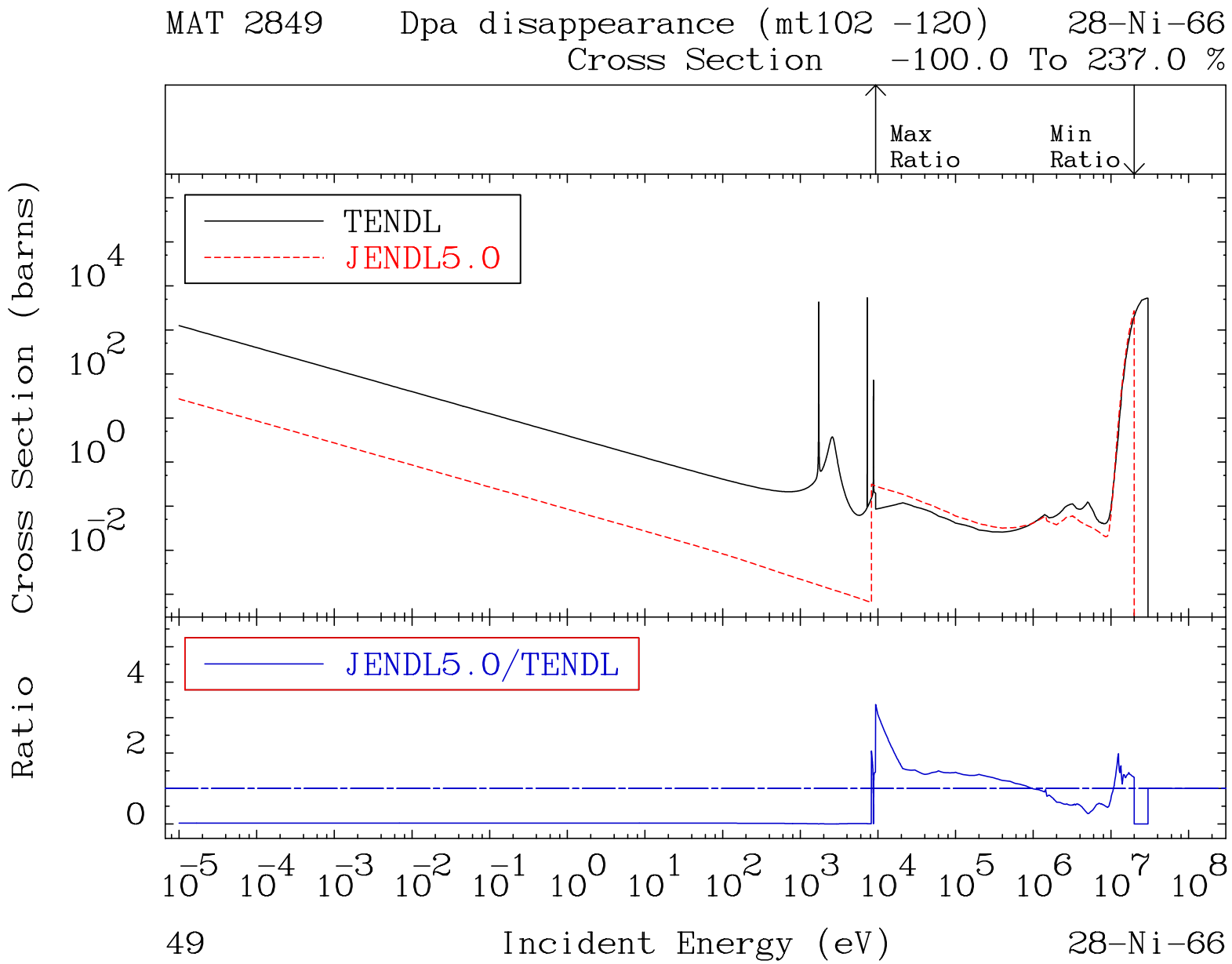

MAT 2849
Total photon (eV-barns)
28-Ni-66
Cross Section -100.1 To 149.8 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Ratio Cross Section (Giga-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
44
Incident Energy (eV)
28-Ni-66

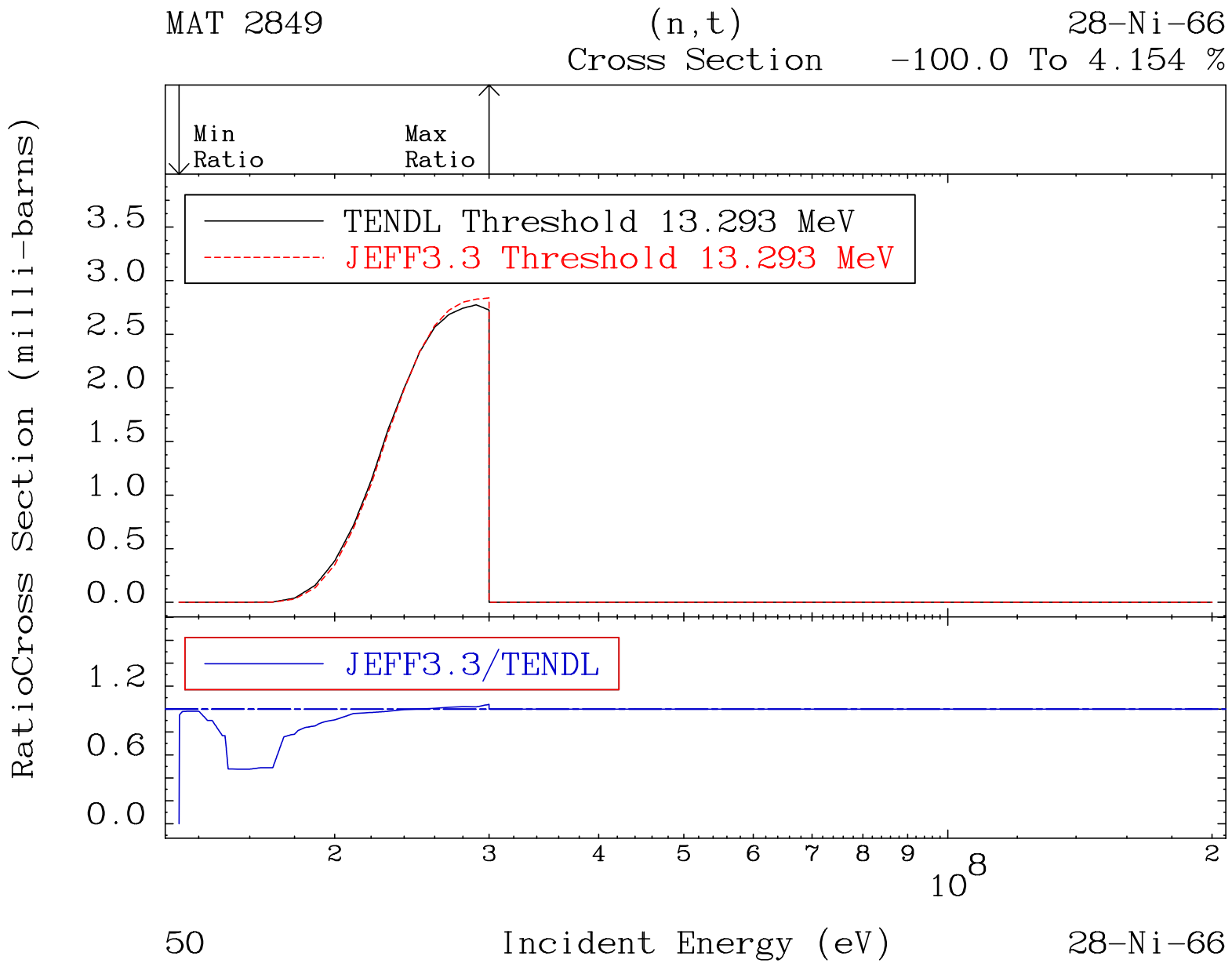

MAT 2849 Total kinematic kerma (high limit) 28-Ni-66
Cross Section -99.82 To 1248. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
45
28-Ni-66

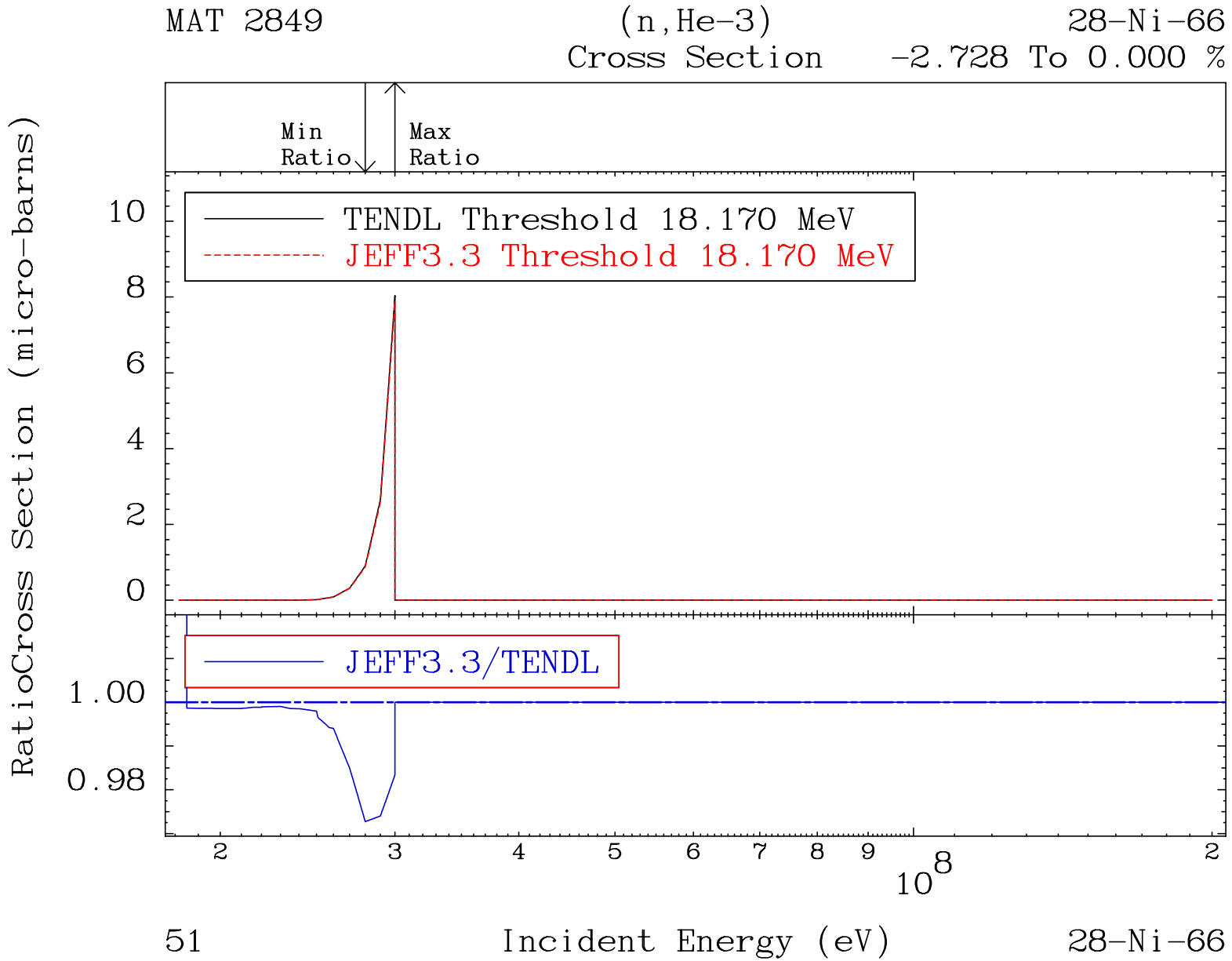

MAT 2849
Dpa total (eV-barns)
28-Ni-66
Cross Section -99.83 To 1042. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
46
28-Ni-66

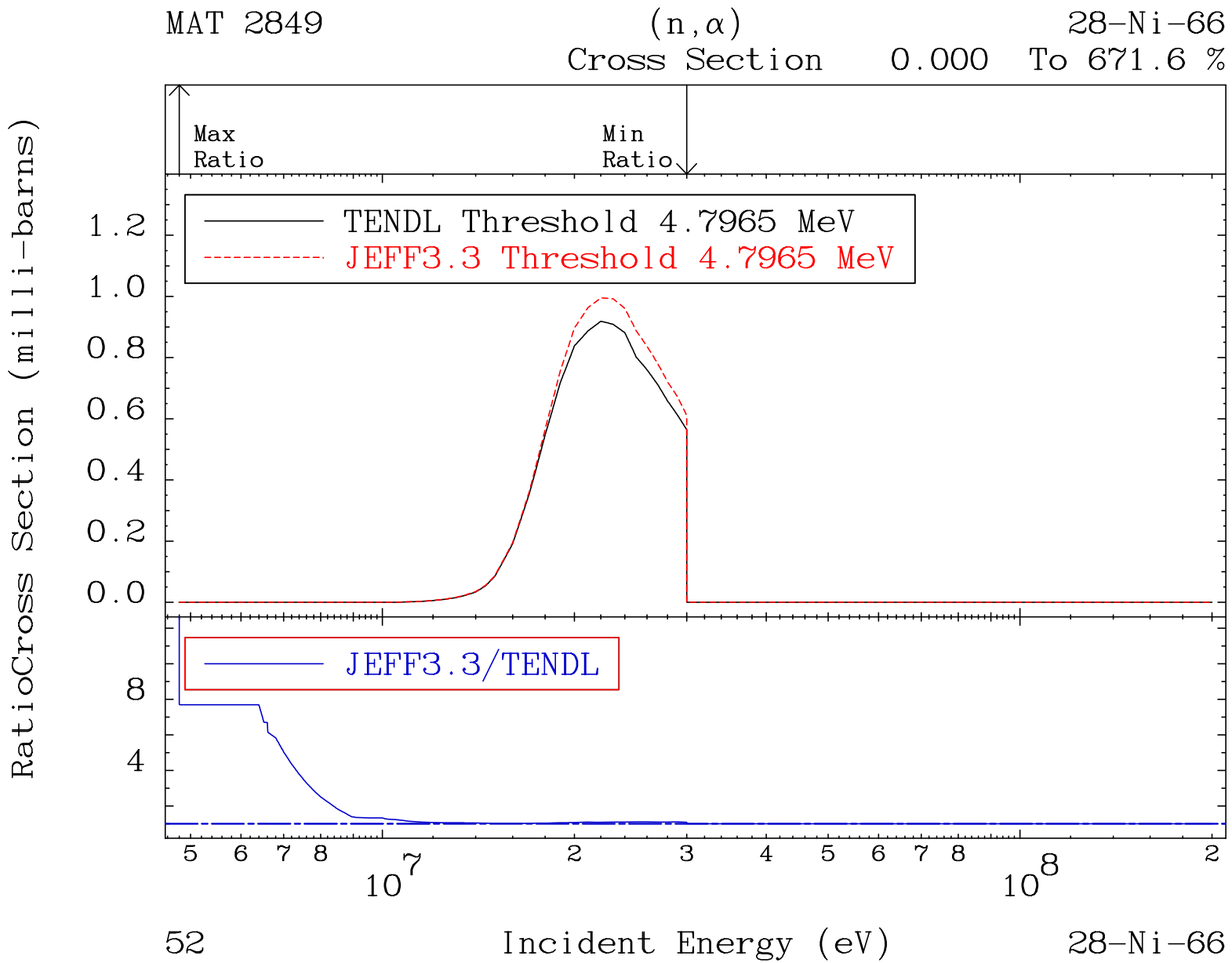

MAT 2849
Dpa elastic (mt2)
Cross Section
28-Ni-66
-99.82 To 1220. %
Min
Ratio
TENDL Threshold 632.81 eV
JENDL5.0 Threshold 718.75 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
47
28-Ni-66

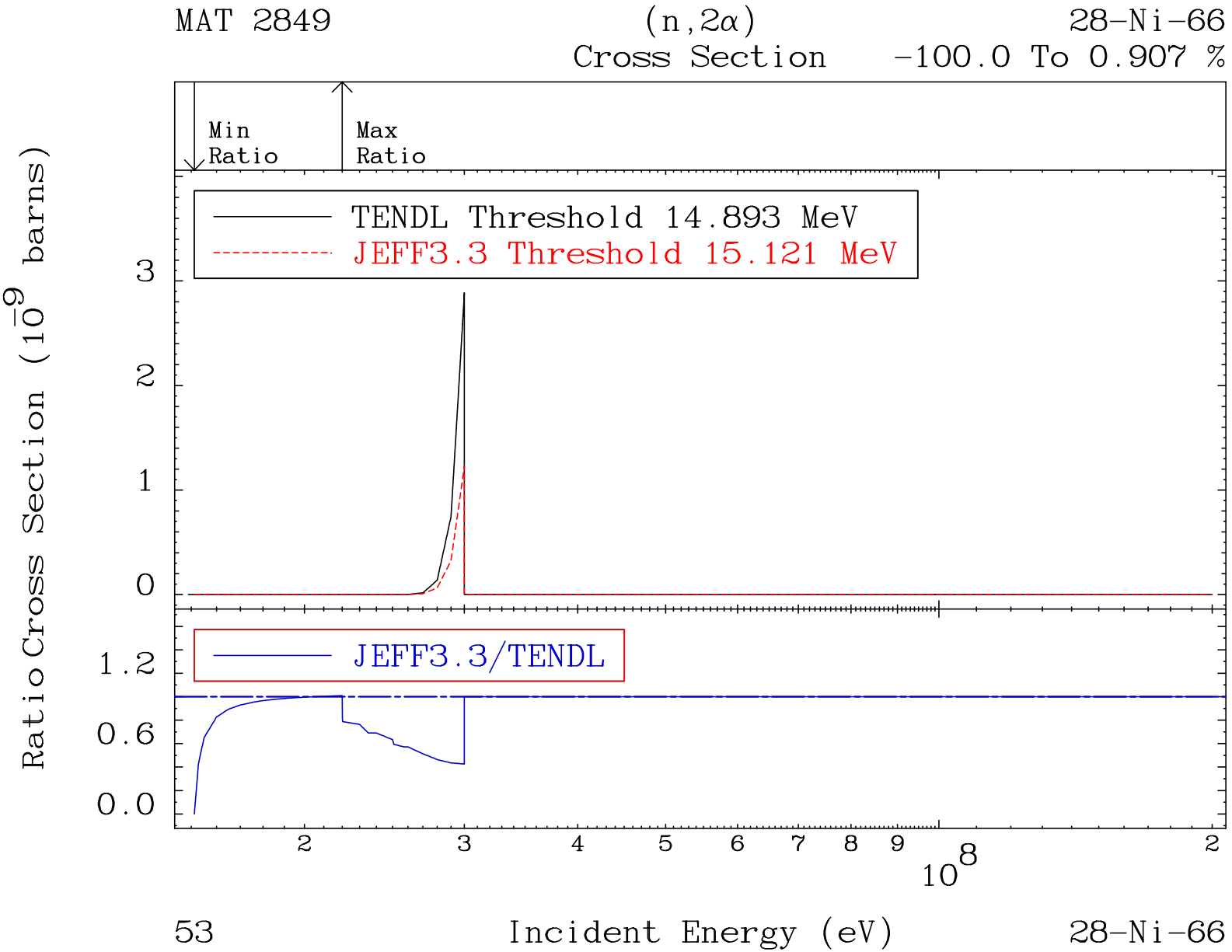

MAT 2849
Dpa inelastic (mt51-91)
28-Ni-66
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.4466 MeV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
48
28-Ni-66

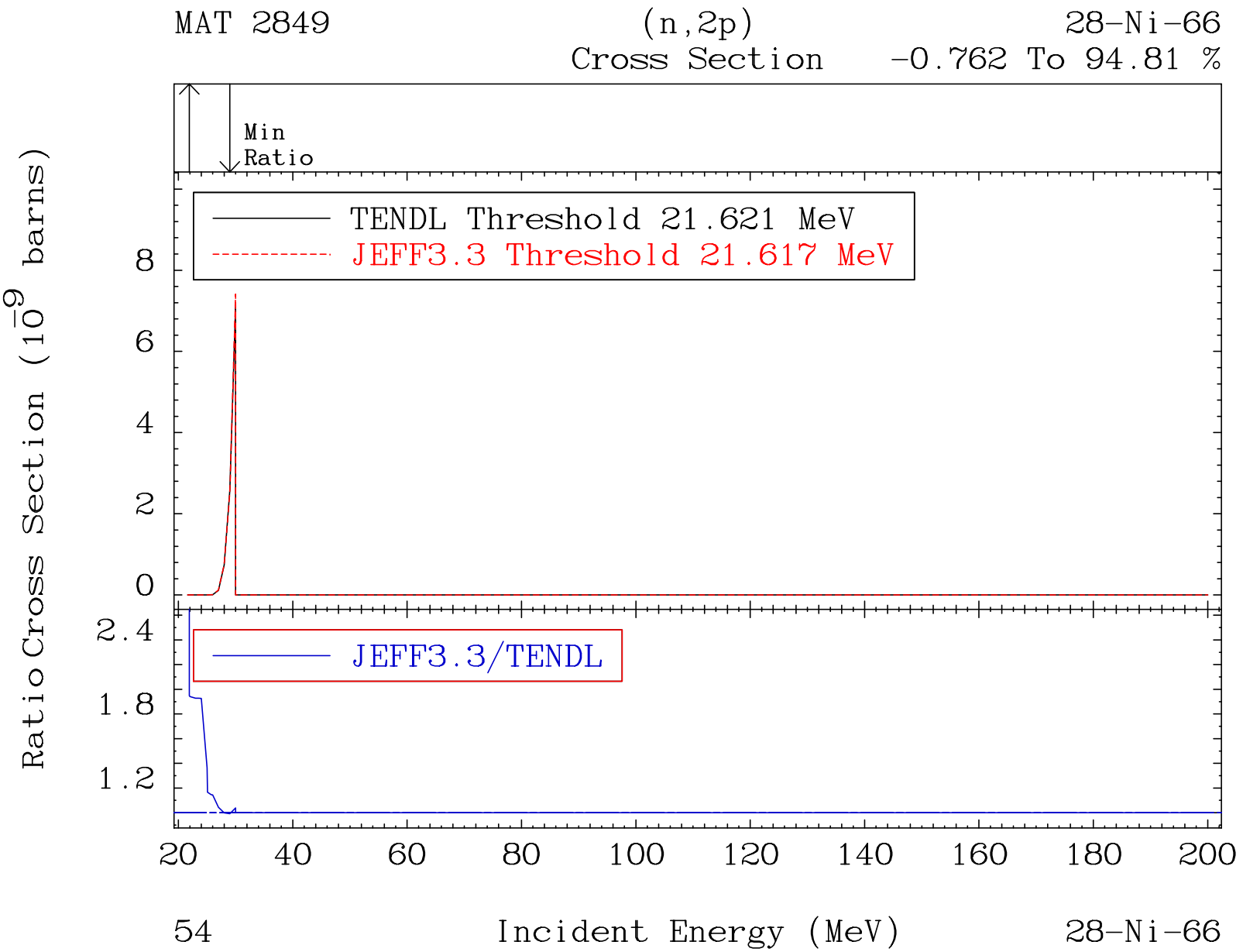

MAT 2849 Dpa disappearance (mt102 -120) 28-Ni-66
Cross Section -100.0 To 237.0 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
49
28-Ni-66

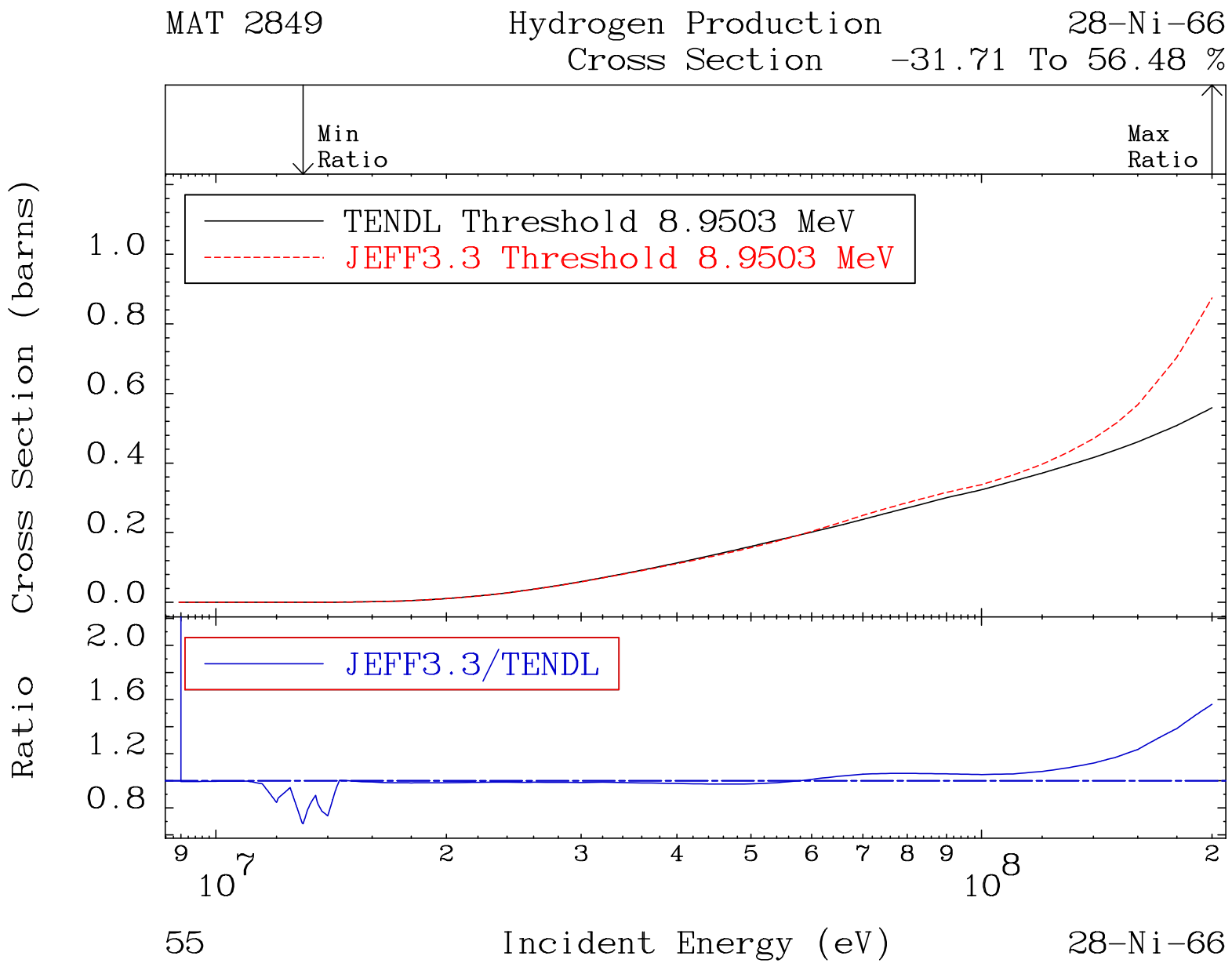

MAT 2849
(n,t)
28-Ni-66
Cross Section
-100.0 To 4.154 %
Min Ratio
Max Ratio
TENDL Threshold 13.293 MeV
JEFF3.3 Threshold 13.293 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
50
Incident Energy (eV)
28-Ni-66

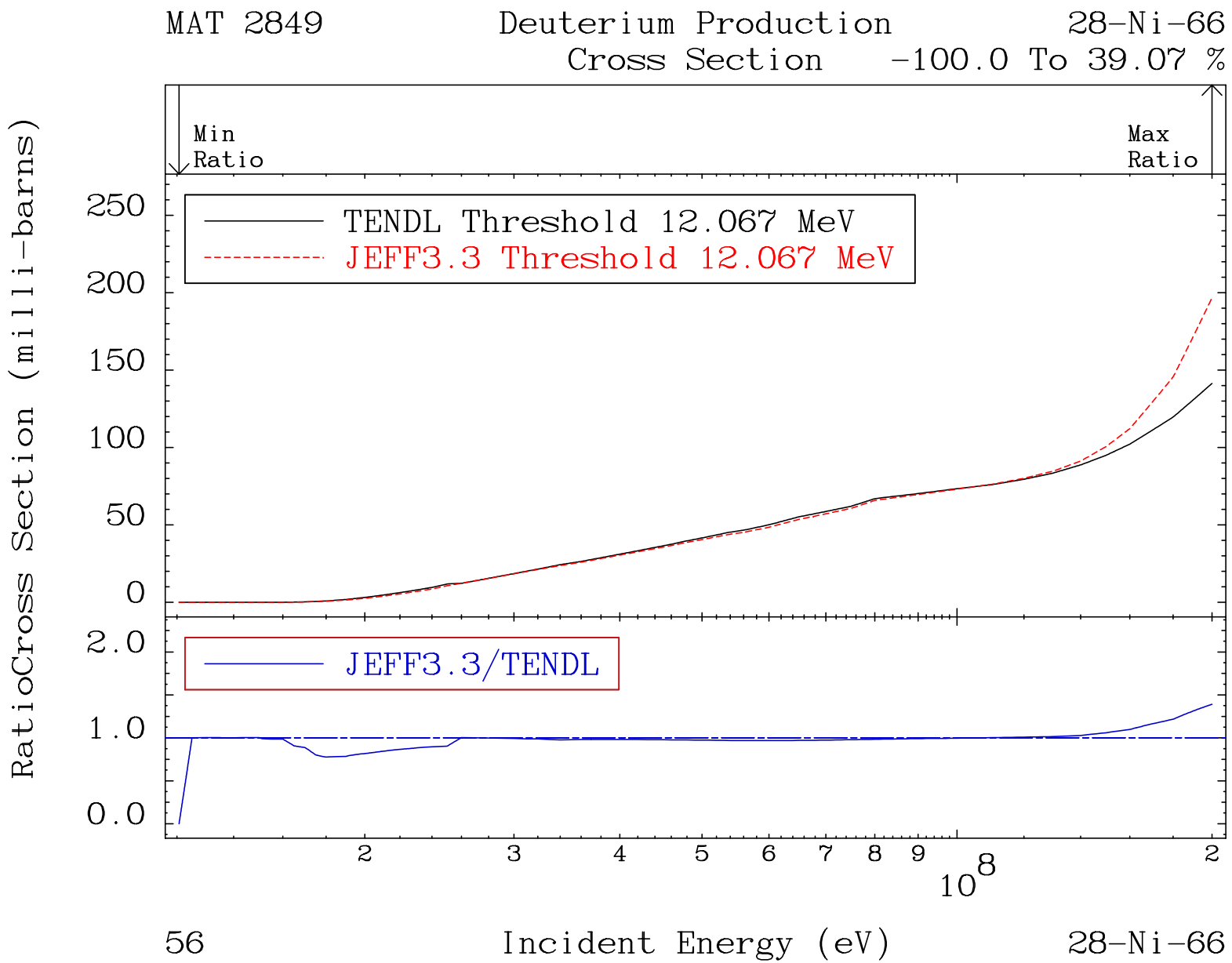

MAT 2849
(n,He-3)
Cross Section
28-Ni-66
-2.728 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 18.170 MeV
JEFF3.3 Threshold 18.170 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
10
8
6
4
2
0
1.00
0.98
2
3
4
5
6
7
8
9
10^8
2
51
Incident Energy (eV)
28-Ni-66

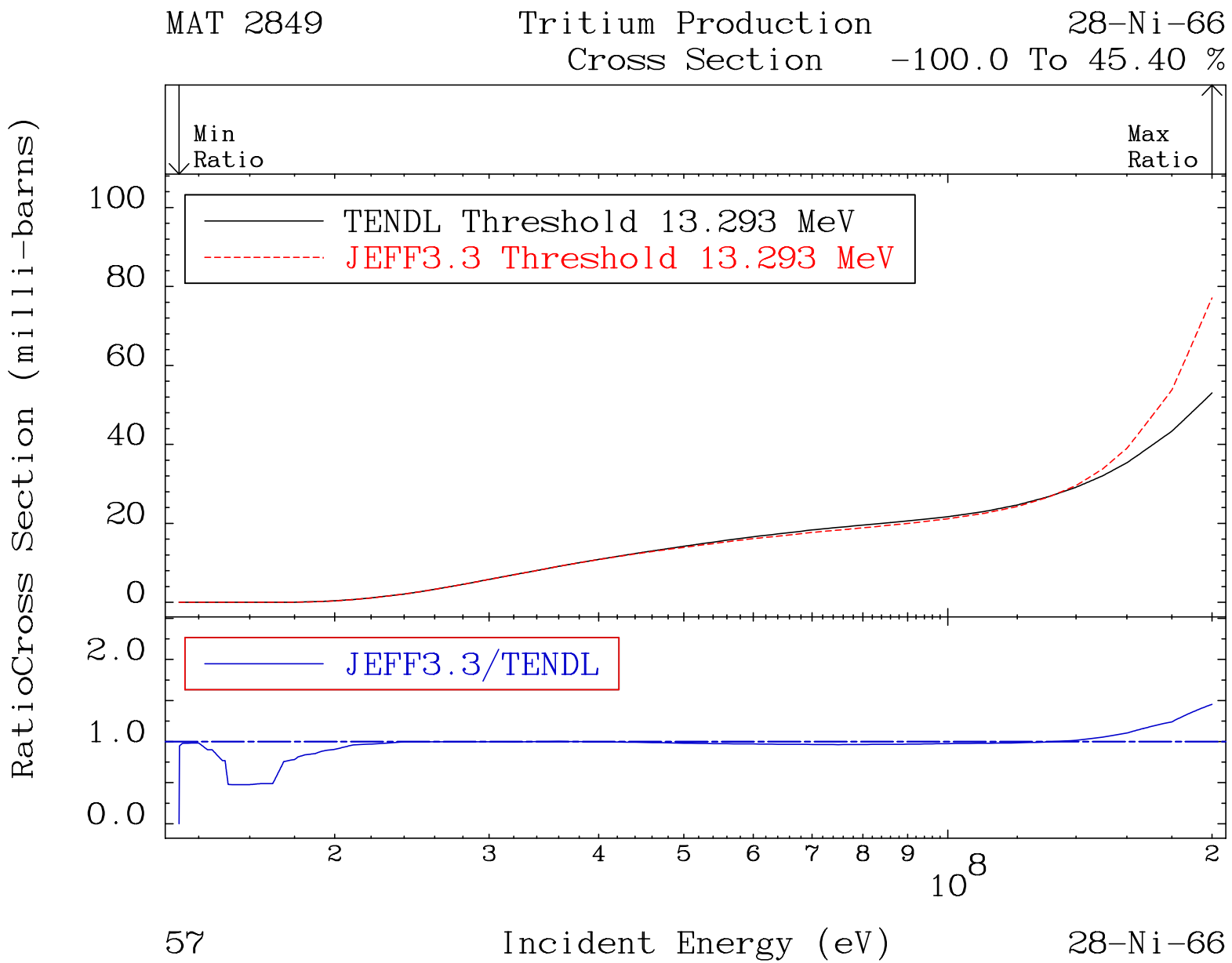

MAT 2849
(n,α)
28-Ni-66
Cross Section 0.000 To 671.6 %
Max Ratio
Min Ratio
TENDL Threshold 4.7965 MeV
JEFF3.3 Threshold 4.7965 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
8
4
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
52
Incident Energy (eV)
28-Ni-66

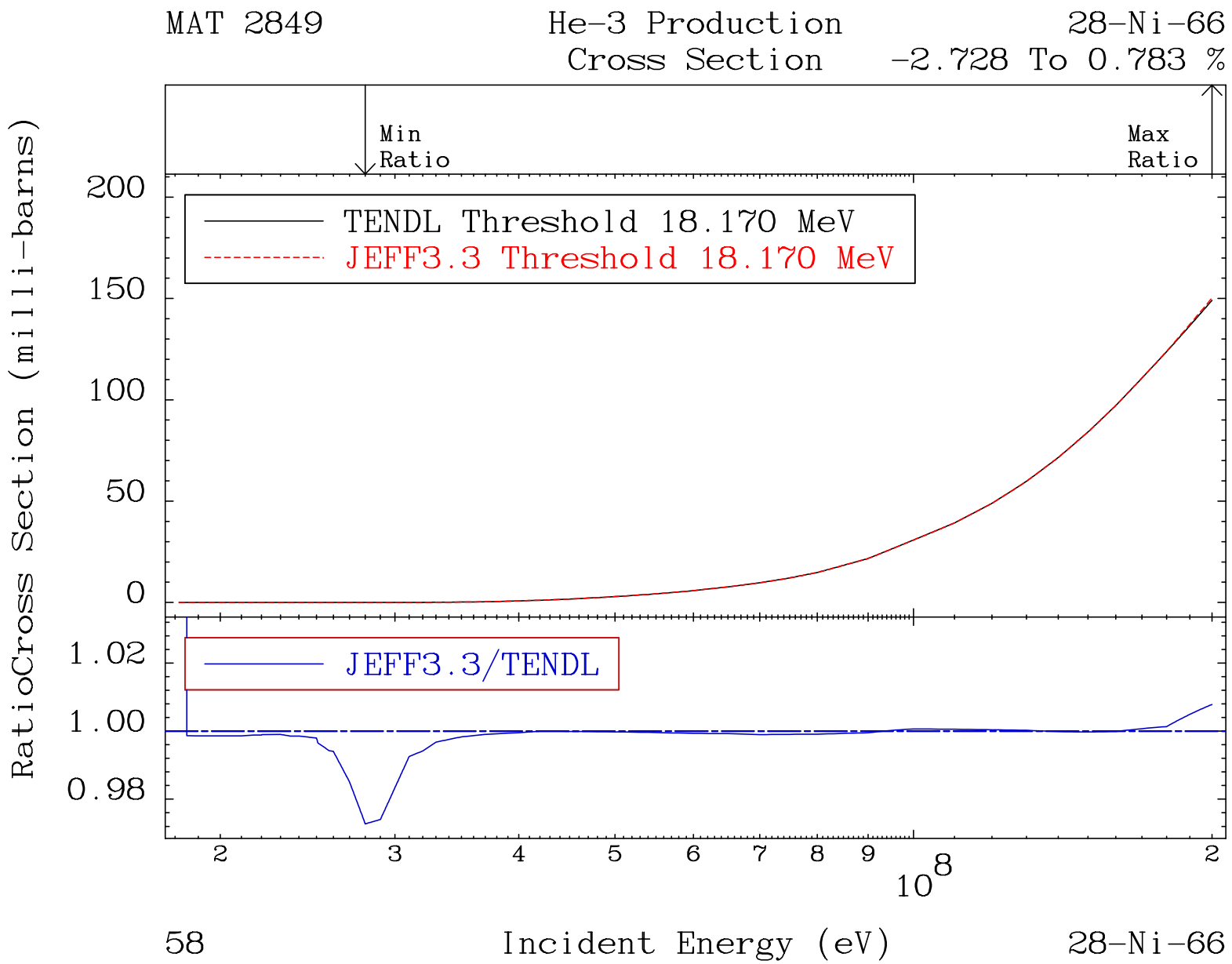

MAT 2849
(n,2α)
28-Ni-66
Cross Section
-100.0 To 0.907 %
Min Ratio
Max Ratio
TENDL Threshold 14.893 MeV
JEFF3.3 Threshold 15.121 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
3
2
1
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
53
Incident Energy (eV)
28-Ni-66

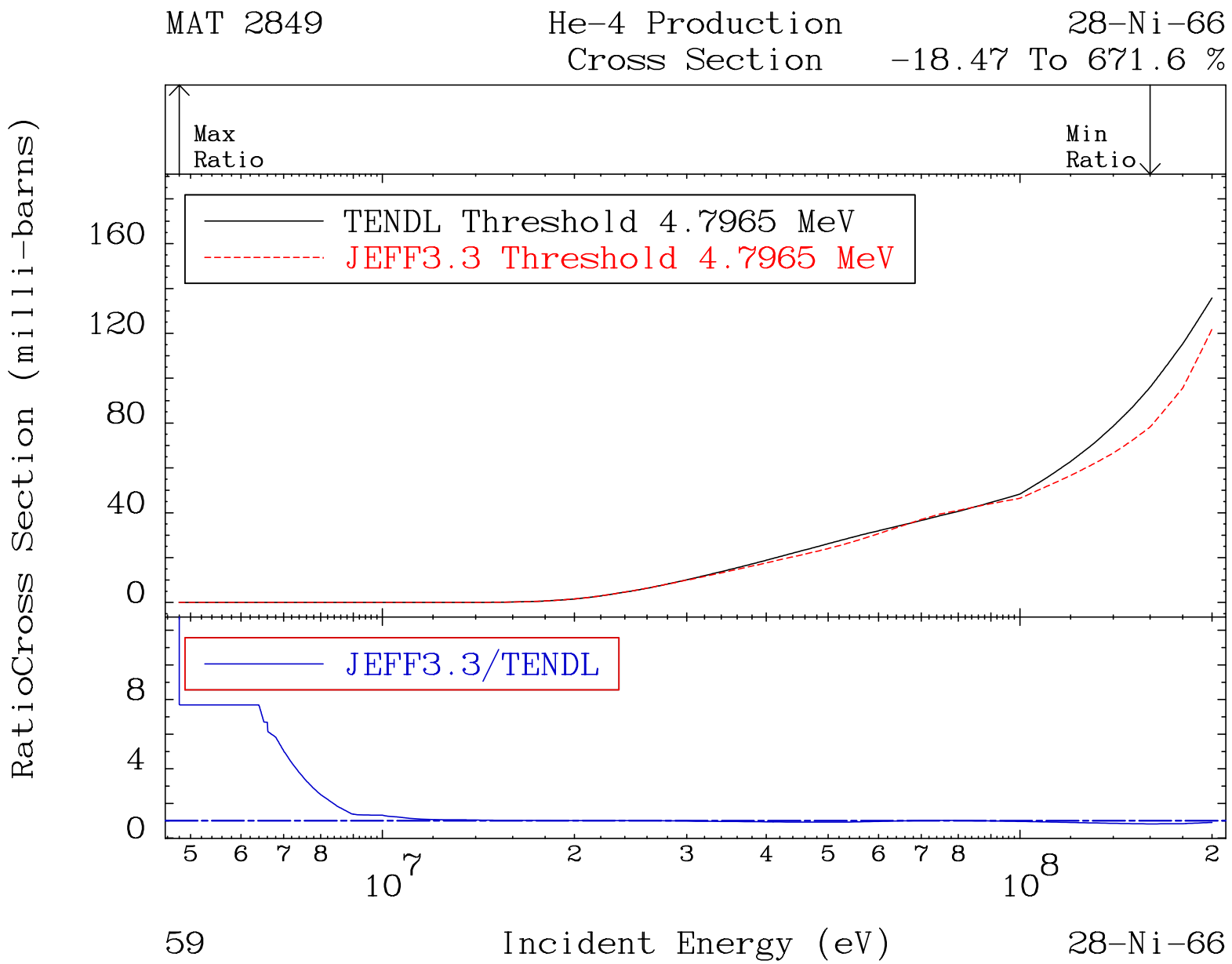

MAT 2849
(n,2p)
28-Ni-66
Cross Section
-0.762 To 94.81 %
Min
Ratio
TENDL Threshold 21.621 MeV
JEFF3.3 Threshold 21.617 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
0
2
4
6
8
1.2
1.8
2.4
20
40
60
80
100
120
140
160
180
200
54
Incident Energy (MeV)
28-Ni-66

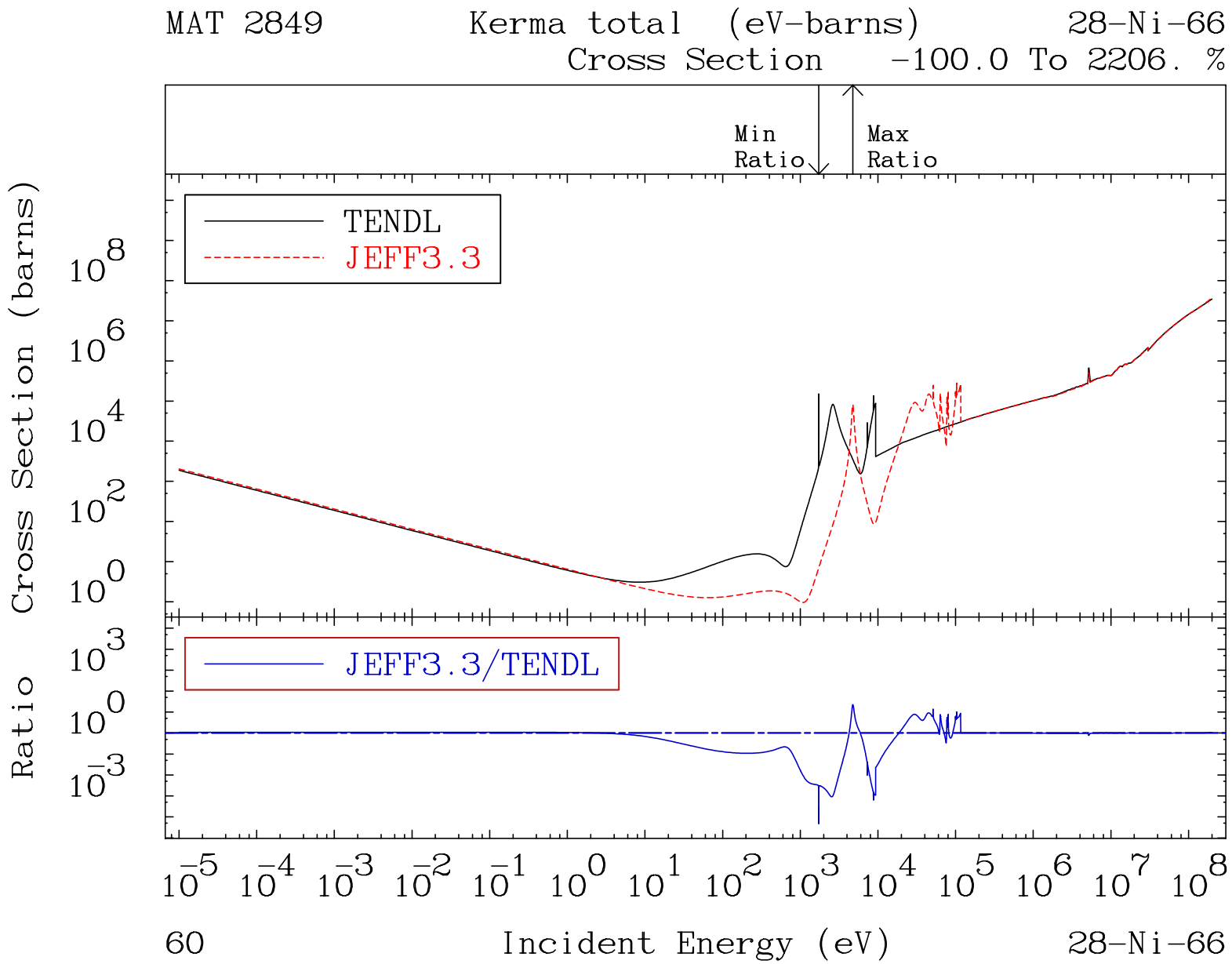

MAT 2849
Hydrogen Production
28-Ni-66
Cross Section -31.71 To 56.48 %
Min Ratio
Max Ratio
TENDL Threshold 8.9503 MeV
JEFF3.3 Threshold 8.9503 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.6
1.2
0.8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
55
Incident Energy (eV)
28-Ni-66

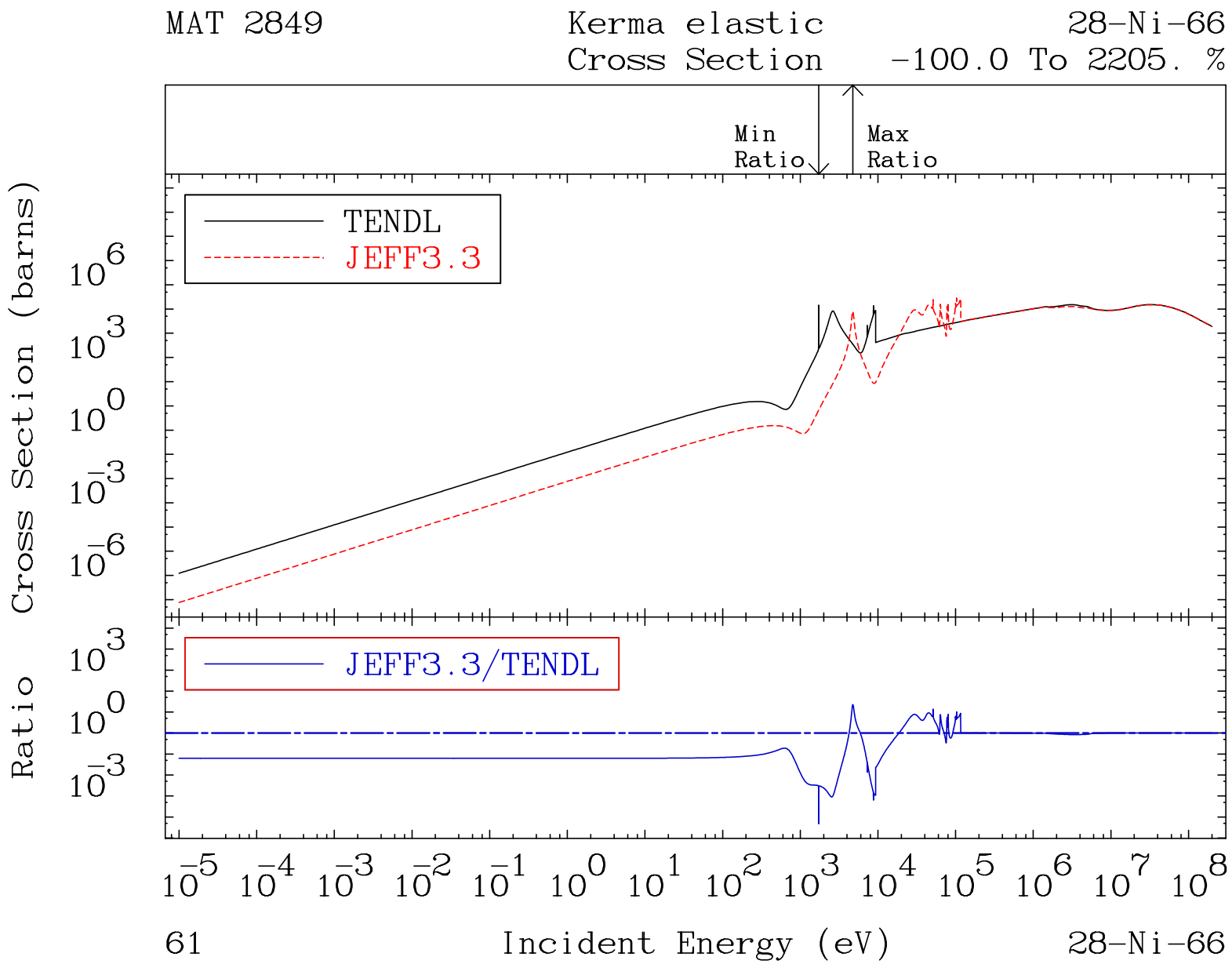

MAT 2849
Deuterium Production
28-Ni-66
Cross Section -100.0 To 39.07 %
Min Ratio
Max Ratio
TENDL Threshold 12.067 MeV
JEFF3.3 Threshold 12.067 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
56
Incident Energy (eV)
28-Ni-66

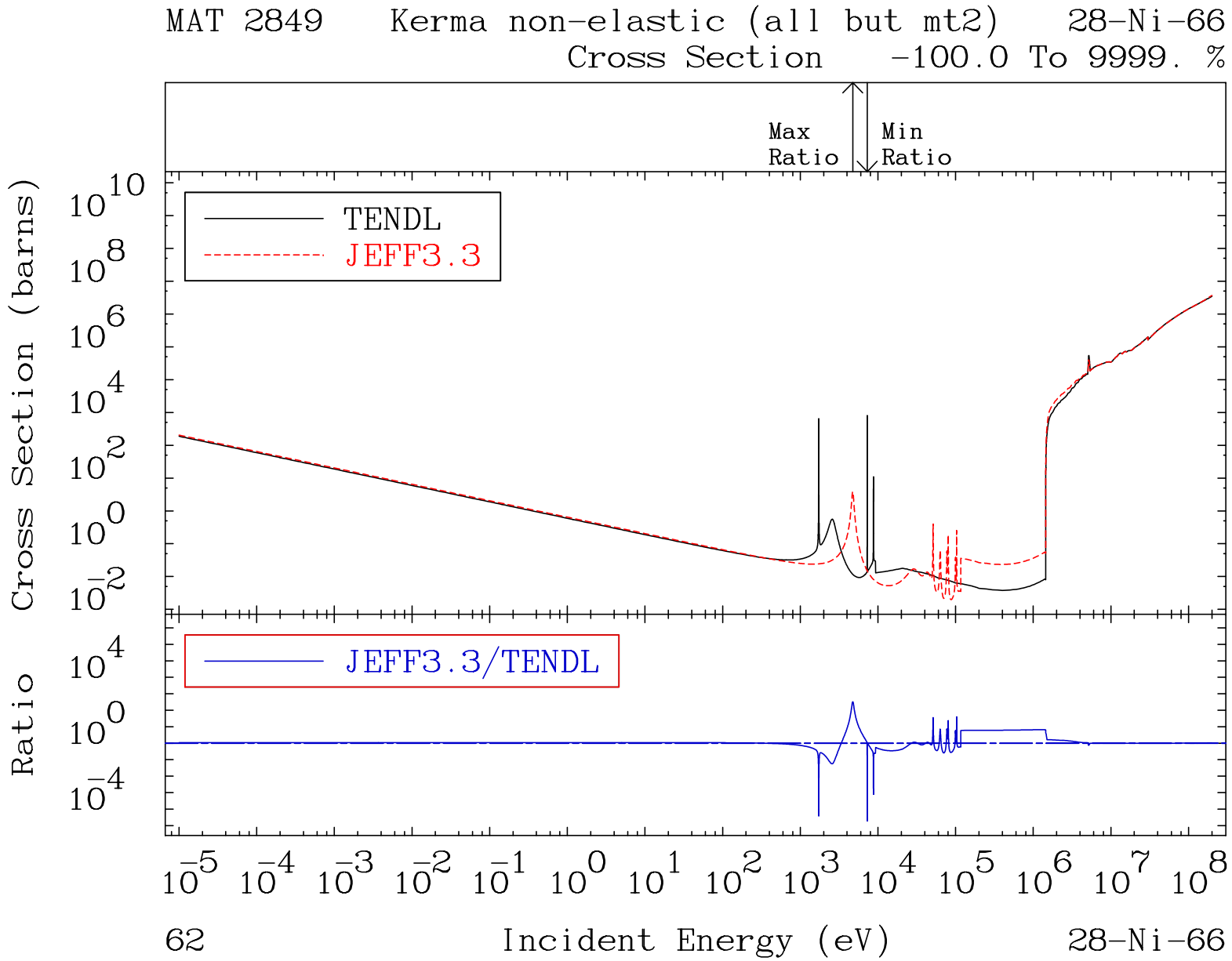

MAT 2849
Tritium Production
28-Ni-66
Cross Section
-100.0 To 45.40 %
Min
Ratio
Max
Ratio
TENDL Threshold 13.293 MeV
JEFF3.3 Threshold 13.293 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
57
Incident Energy (eV)
28-Ni-66

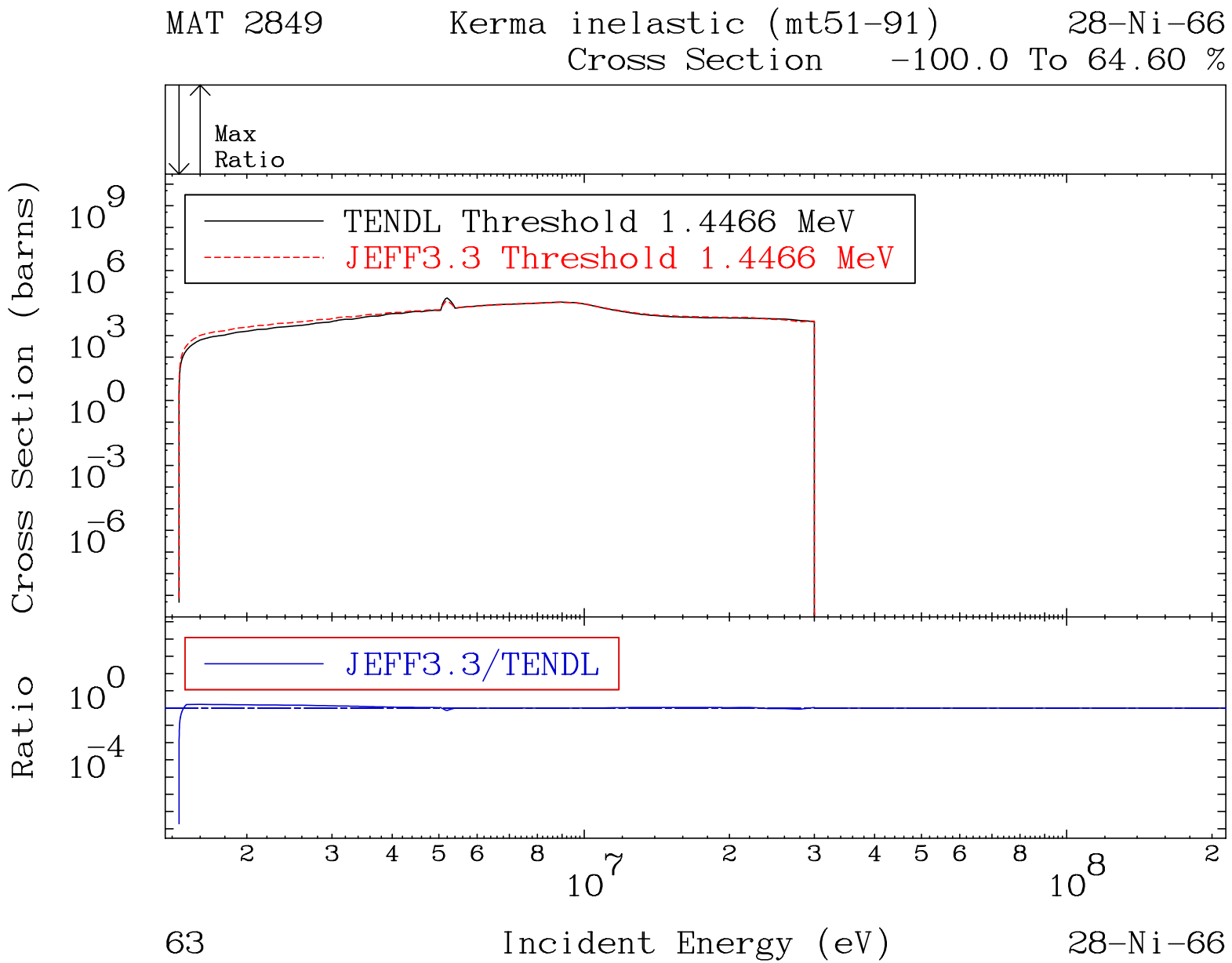

MAT 2849
He-3 Production
Cross Section
28-Ni-66
-2.728 To 0.783 %
Min
Ratio
Max
Ratio
TENDL Threshold 18.170 MeV
JEFF3.3 Threshold 18.170 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.02
1.00
0.98
2
3
4
5
6
7
8
9
10^8
2
58
Incident Energy (eV)
28-Ni-66

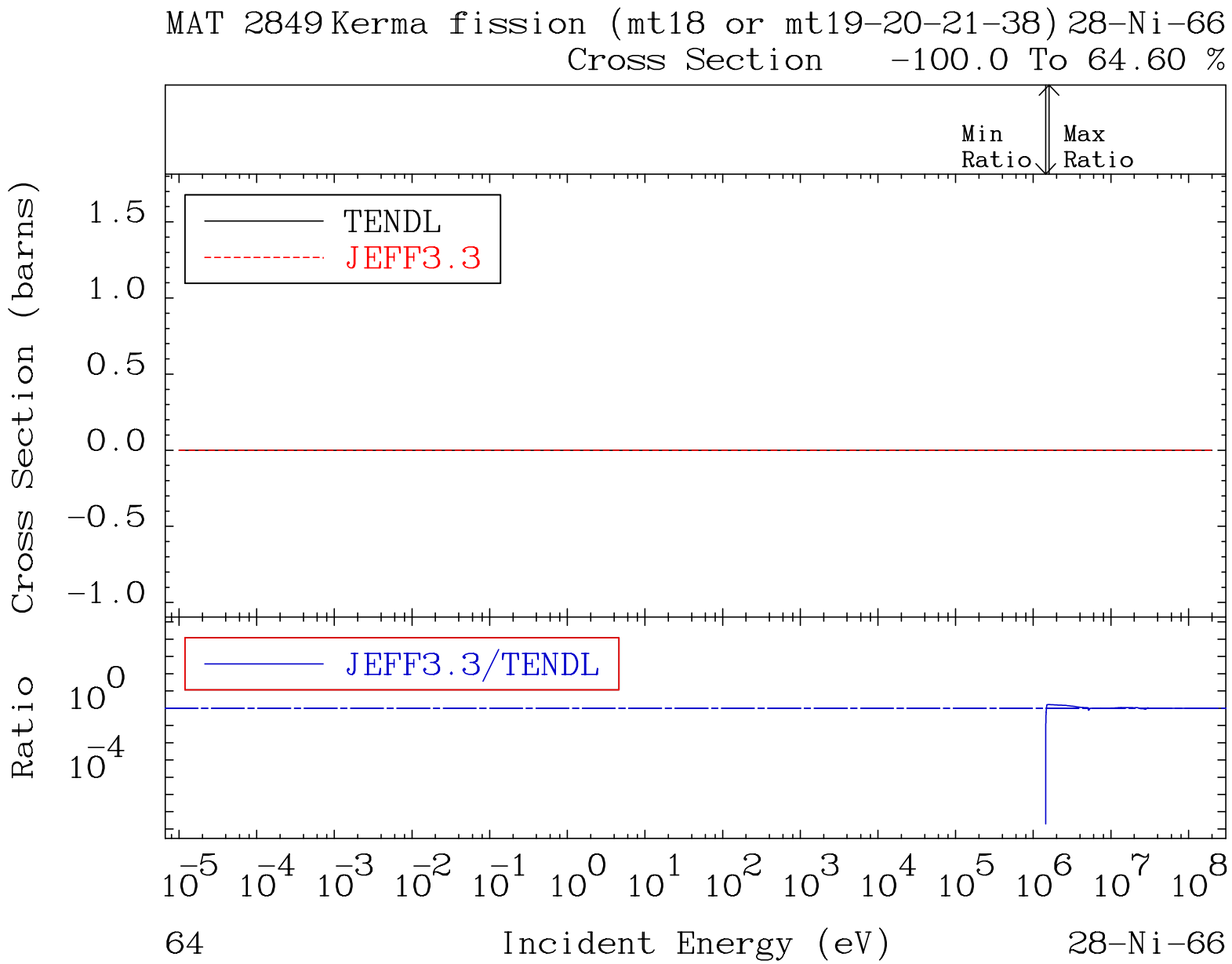

MAT 2849
He-4 Production
Cross Section
28-Ni-66
-18.47 To 671.6 %
Max Ratio
Min Ratio
TENDL Threshold 4.7965 MeV
JEFF3.3 Threshold 4.7965 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
8
4
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
59
Incident Energy (eV)
28-Ni-66

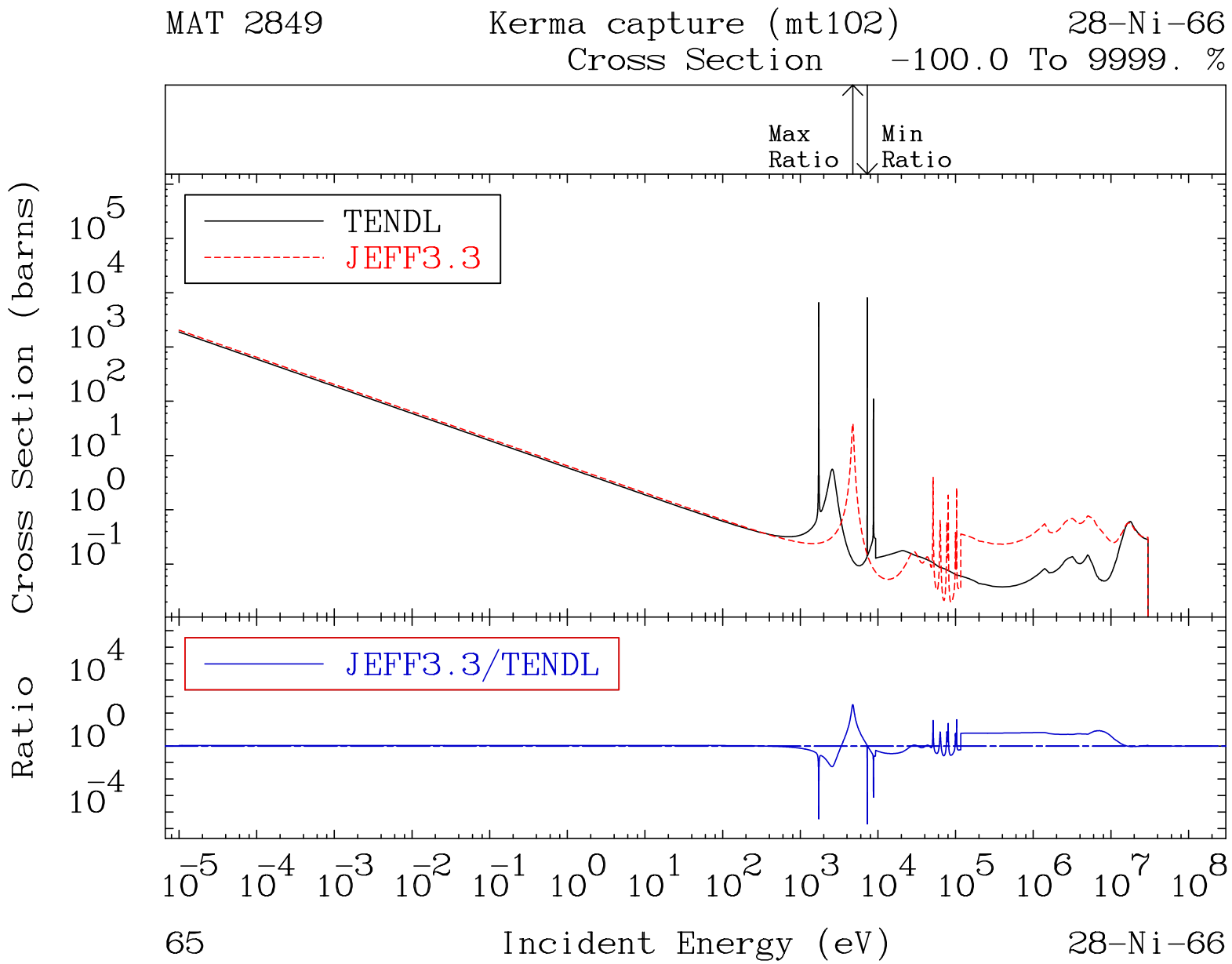

MAT 2849
Kerma total (eV-barns)
28-Ni-66
Cross Section -100.0 To 2206. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
28-Ni-66

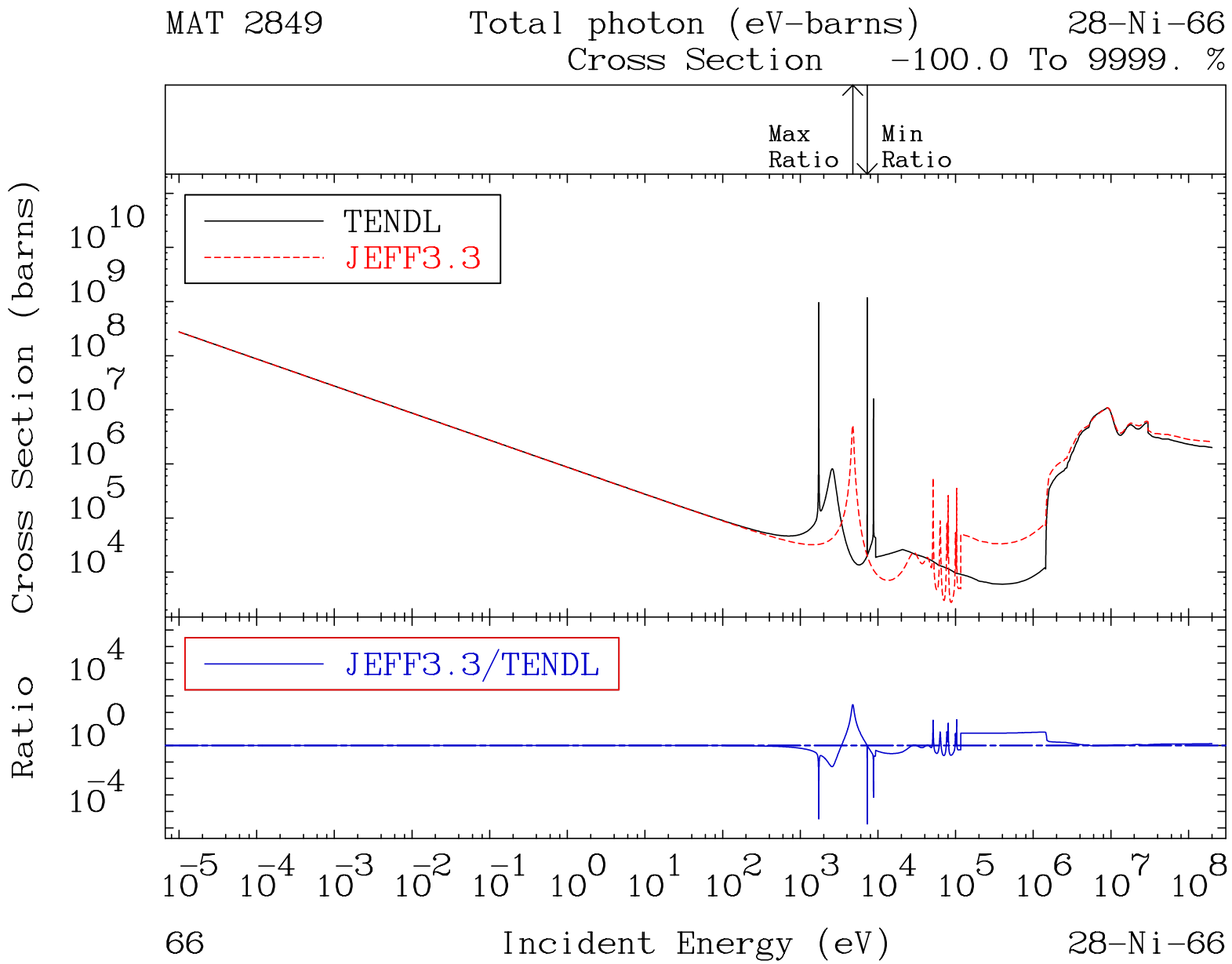

MAT 2849
Kerma elastic
Cross Section
28-Ni-66
-100.0 To 2205. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
28-Ni-66

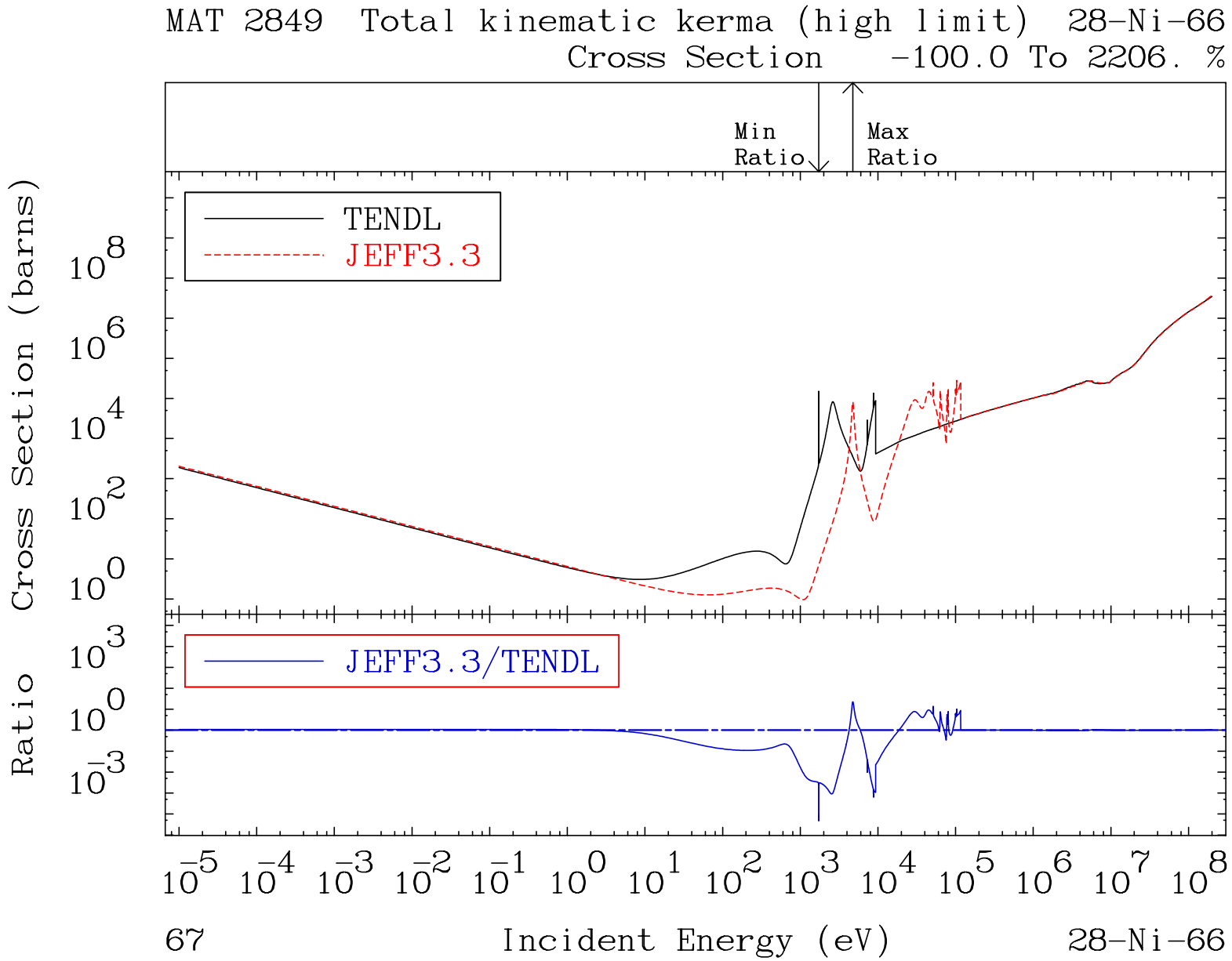

MAT 2849 Kerma non-elastic (all but mt2) 28-Ni-66
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
28-Ni-66

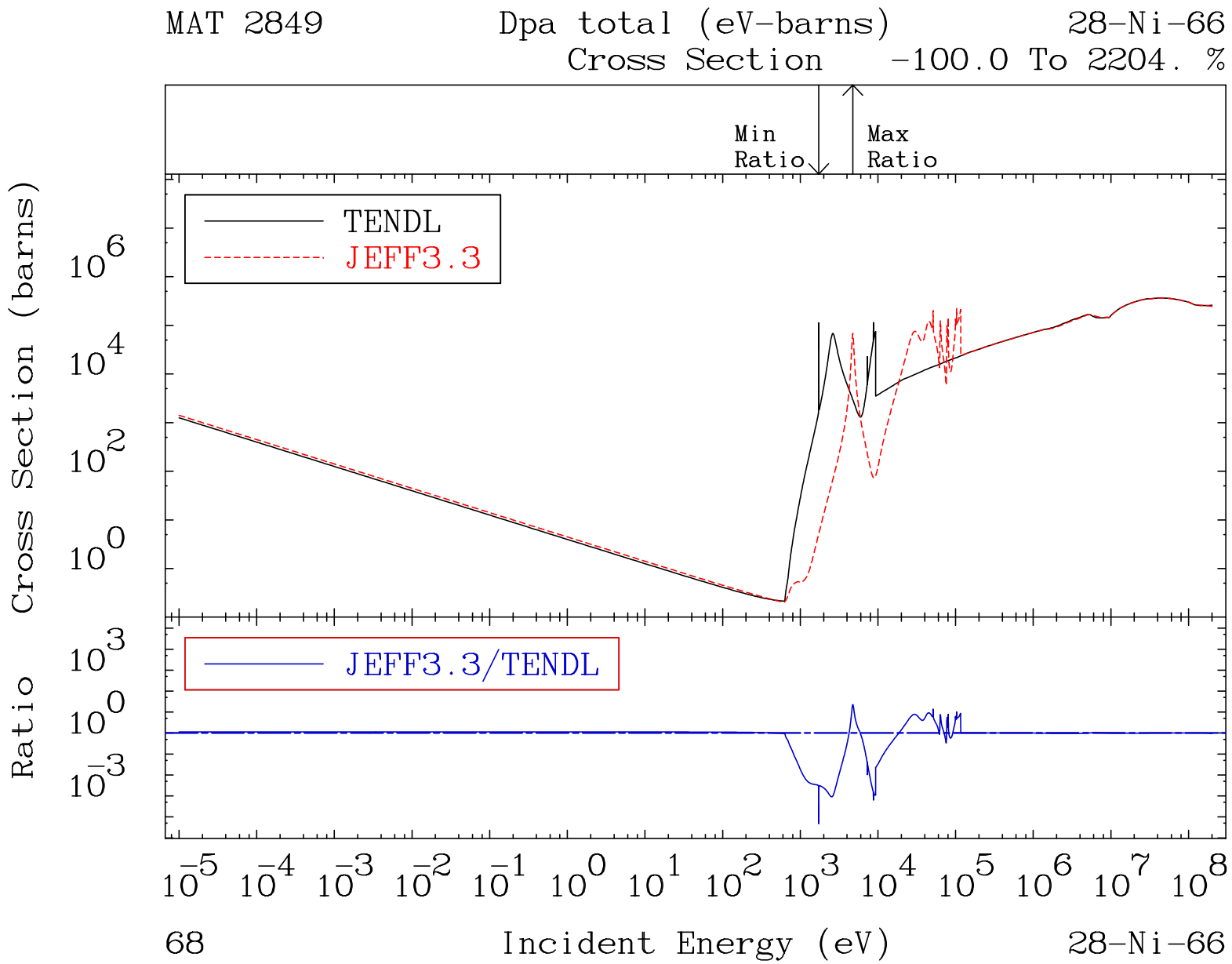

MAT 2849
Kerma inelastic (mt51-91)
28-Ni-66
Cross Section
-100.0 To 64.60 %
Max
Ratio
TENDL Threshold 1.4466 MeV
JEFF3.3 Threshold 1.4466 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
63
28-Ni-66

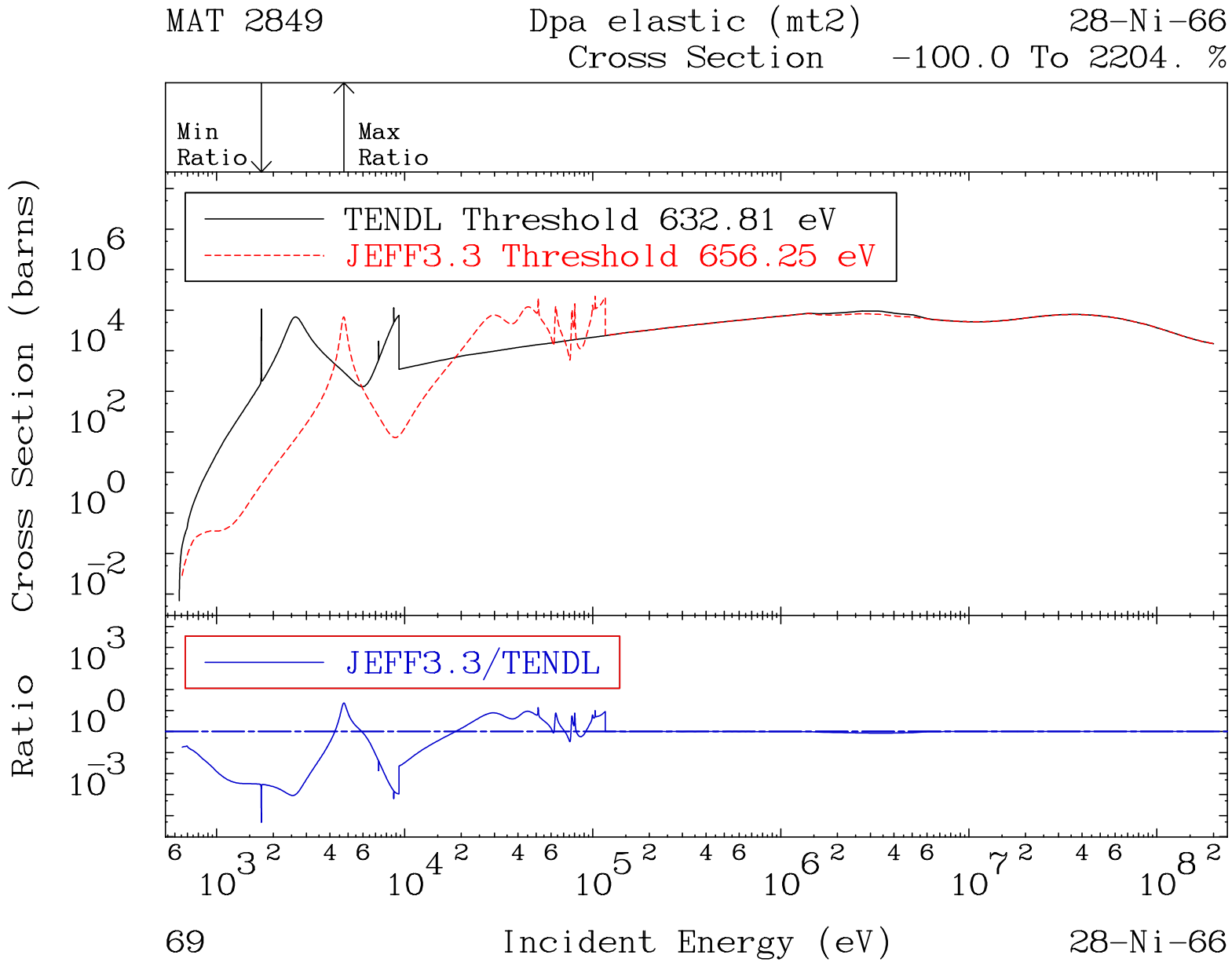

MAT 2849 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-66
Cross Section -100.0 To 64.60 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{0}
10^{-4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
64
Incident Energy (eV)
28-Ni-66

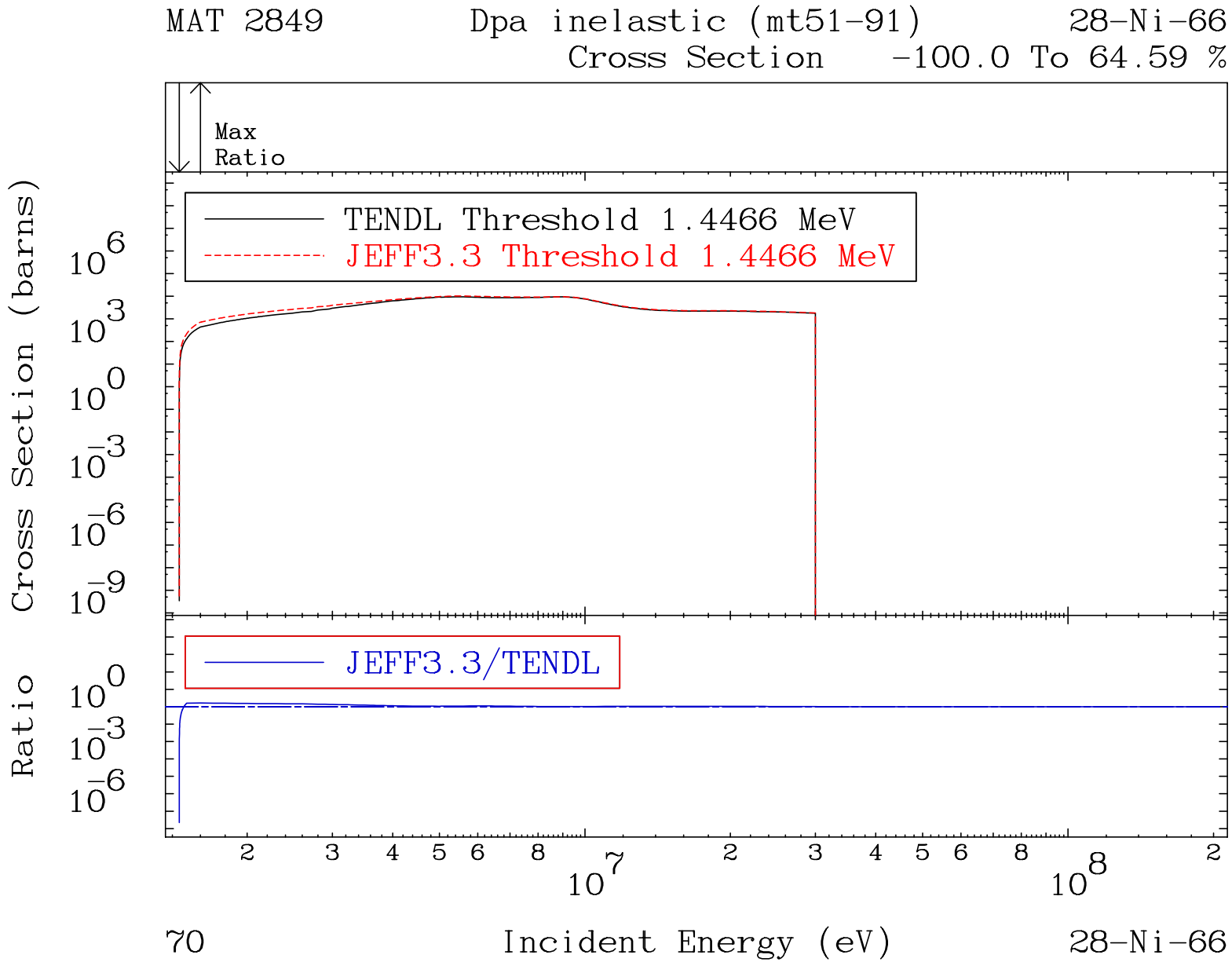

MAT 2849
Kerma capture (mt102)
28-Ni-66
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
65
28-Ni-66

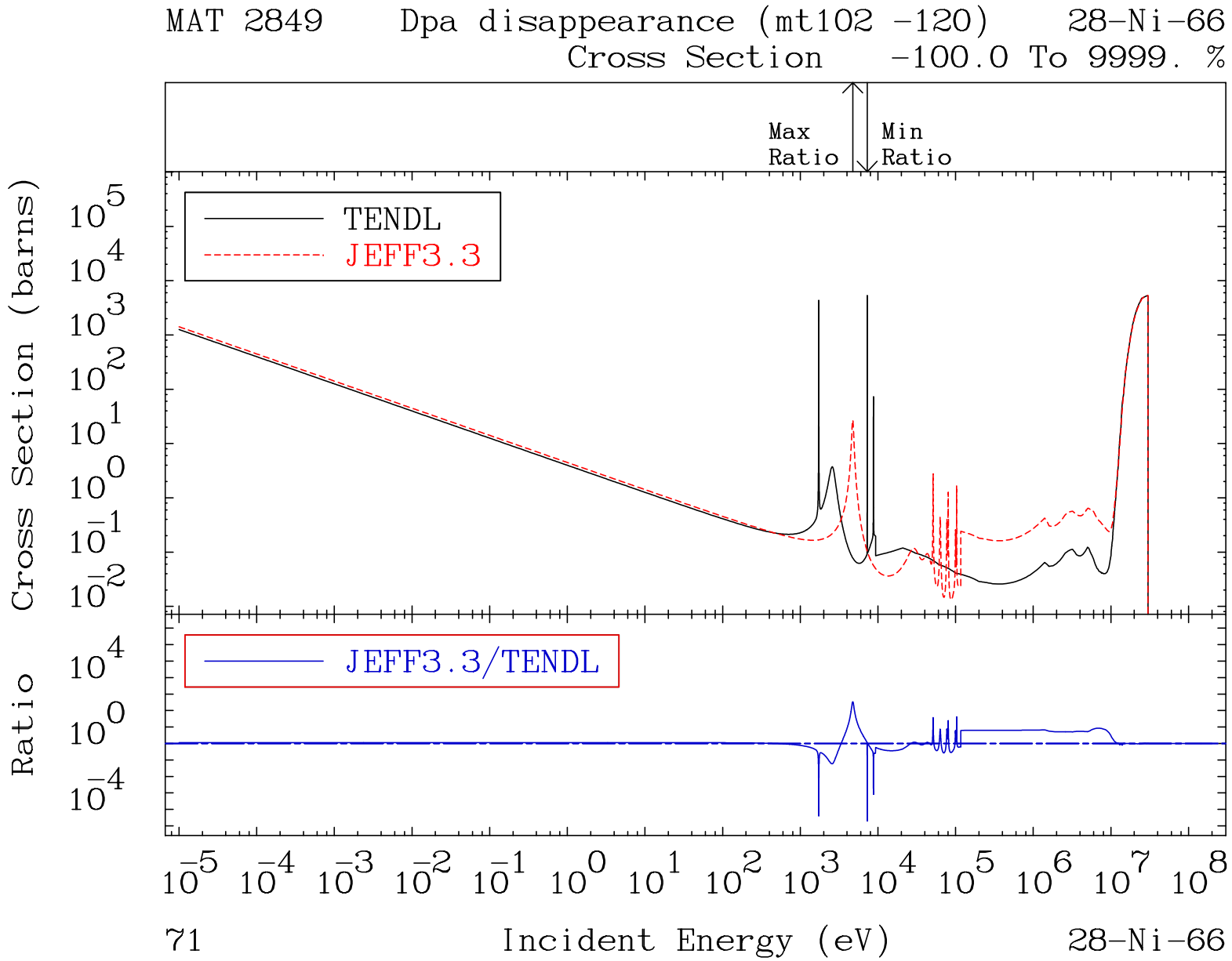

MAT 2849
Total photon (eV-barns)
28-Ni-66
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
66
28-Ni-66

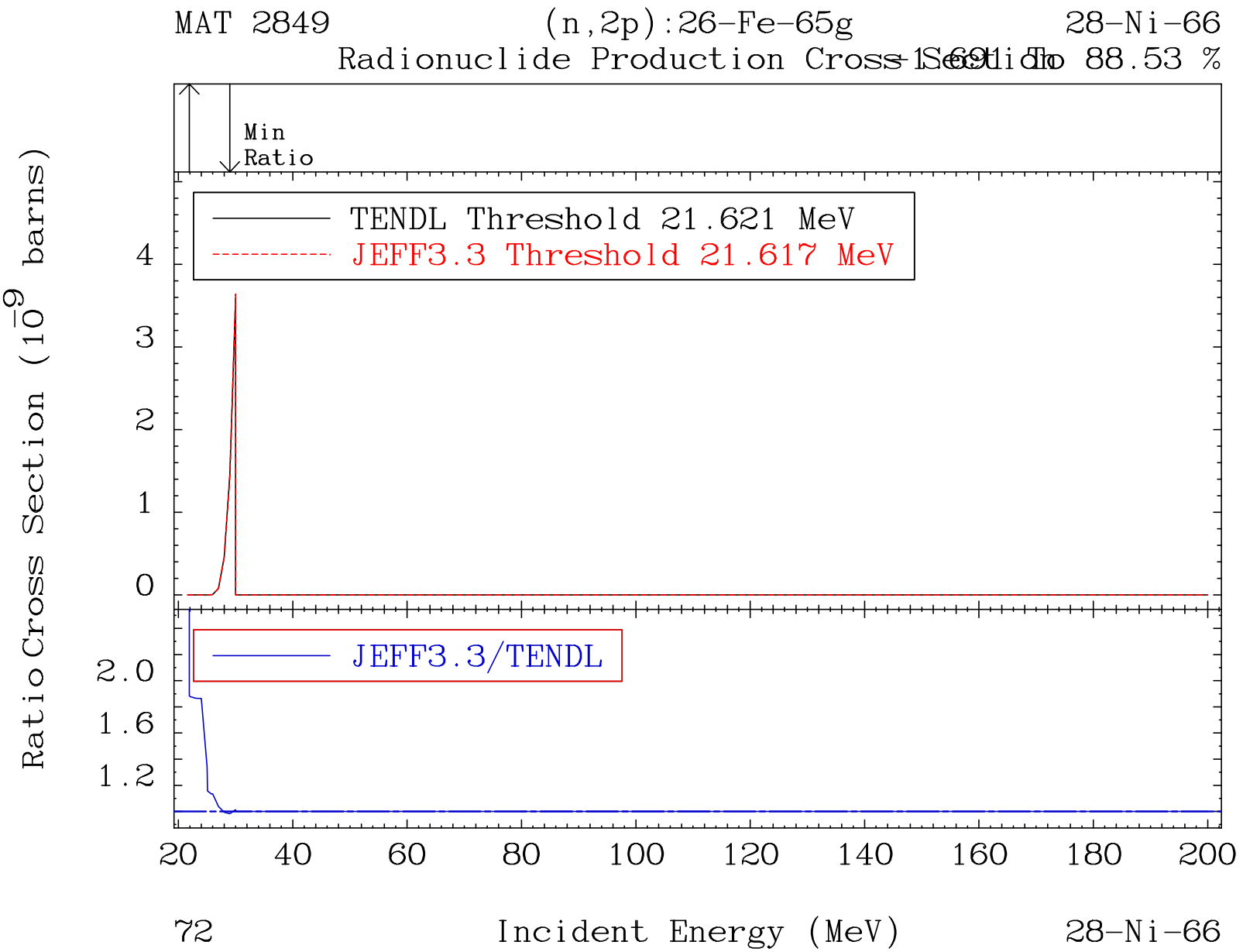

MAT 2849 Total kinematic kerma (high limit) 28-Ni-66
Cross Section -100.0 To 2206. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
67
28-Ni-66

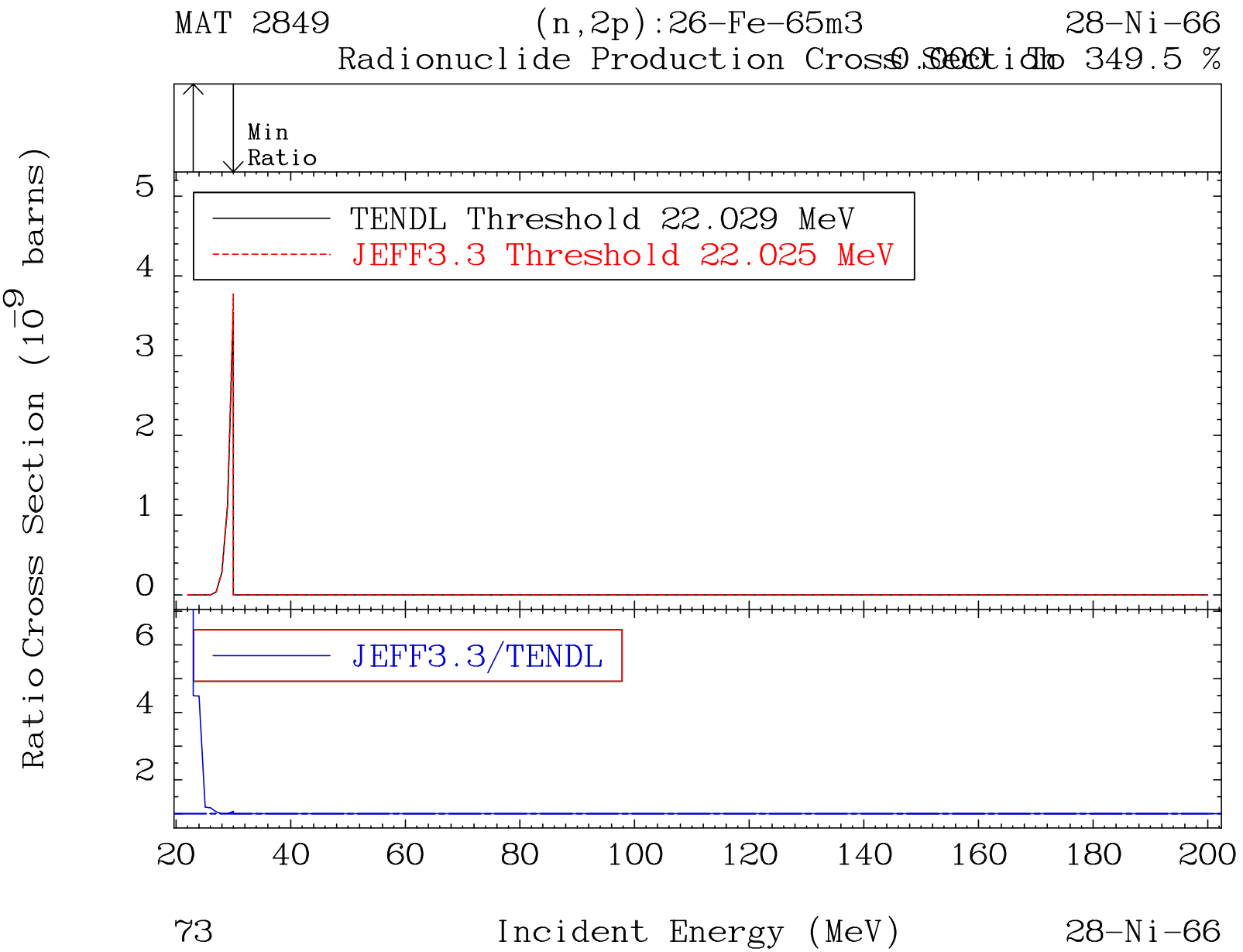

MAT 2849
Dpa total (eV-barns)
28-Ni-66
Cross Section -100.0 To 2204. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
68
28-Ni-66


MAT 2849
Dpa elastic (mt2)
Cross Section
28-Ni-66
-100.0 To 2204. %
Min Ratio
Max Ratio
TENDL Threshold 632.81 eV
JEFF3.3 Threshold 656.25 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
69
28-Ni-66


MAT 2849
Dpa inelastic (mt51-91)
28-Ni-66
Cross Section
-100.0 To 64.59 %
Max
Ratio
TENDL Threshold 1.4466 MeV
JEFF3.3 Threshold 1.4466 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
70
28-Ni-66


MAT 2849 Dpa disappearance (mt102 -120) 28-Ni-66
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
71
28-Ni-66


MAT 2849
(n,2p):26-Fe-65g
28-Ni-66
Radionuclide Production Cross Section
Min
Ratio
TENDL Threshold 21.621 MeV
JEFF3.3 Threshold 21.617 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
4
3
2
1
0
2.0
1.6
1.2
20
40
60
80
100
120
140
160
180
200
72
Incident Energy (MeV)
28-Ni-66


MAT 2849
(n,2p):26-Fe-65m3
28-Ni-66
Radionuclide Production Cross Section
0.000 To 349.5 %
Min
Ratio
TENDL Threshold 22.029 MeV
JEFF3.3 Threshold 22.025 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
Incident Energy (MeV)
73
28-Ni-66