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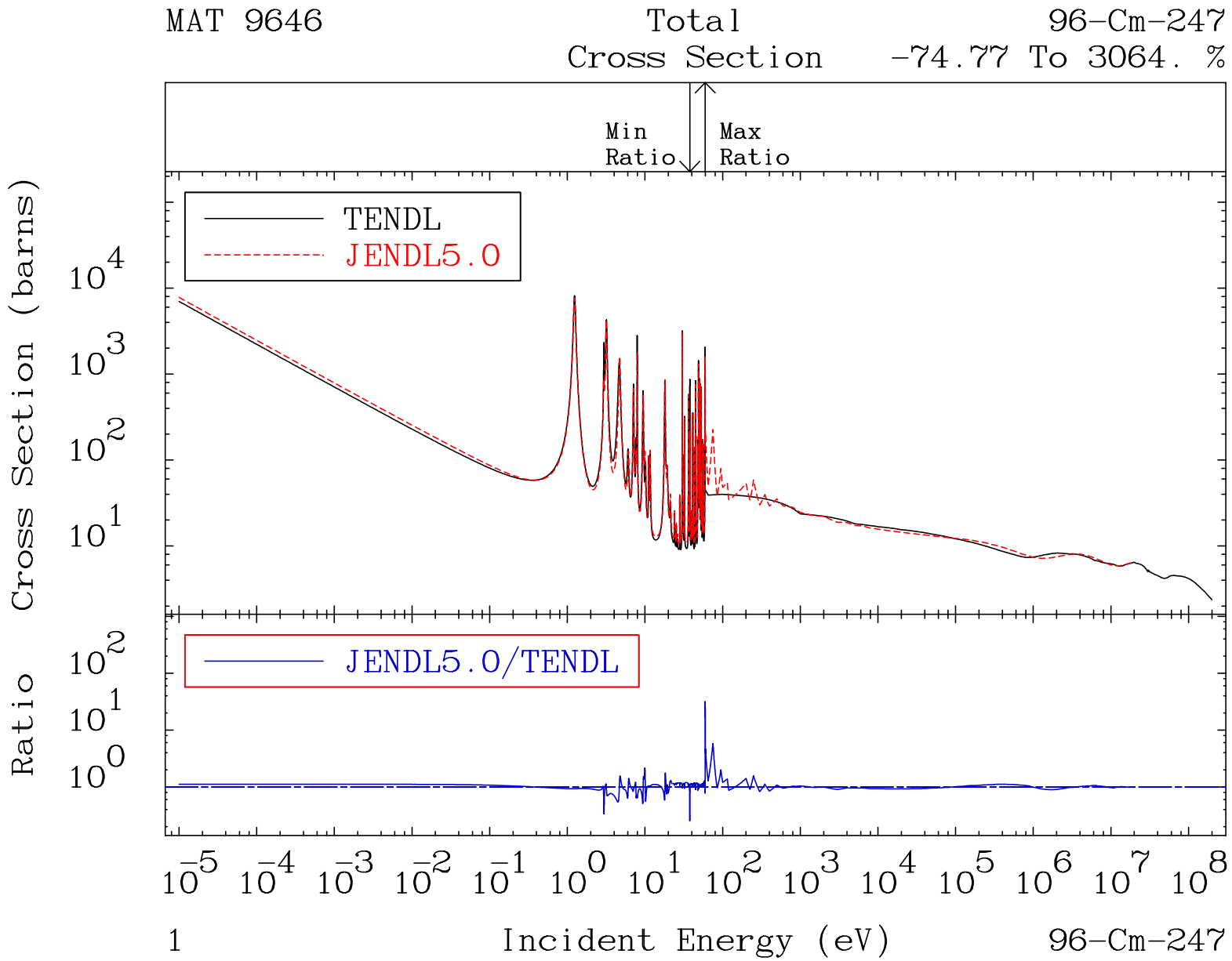
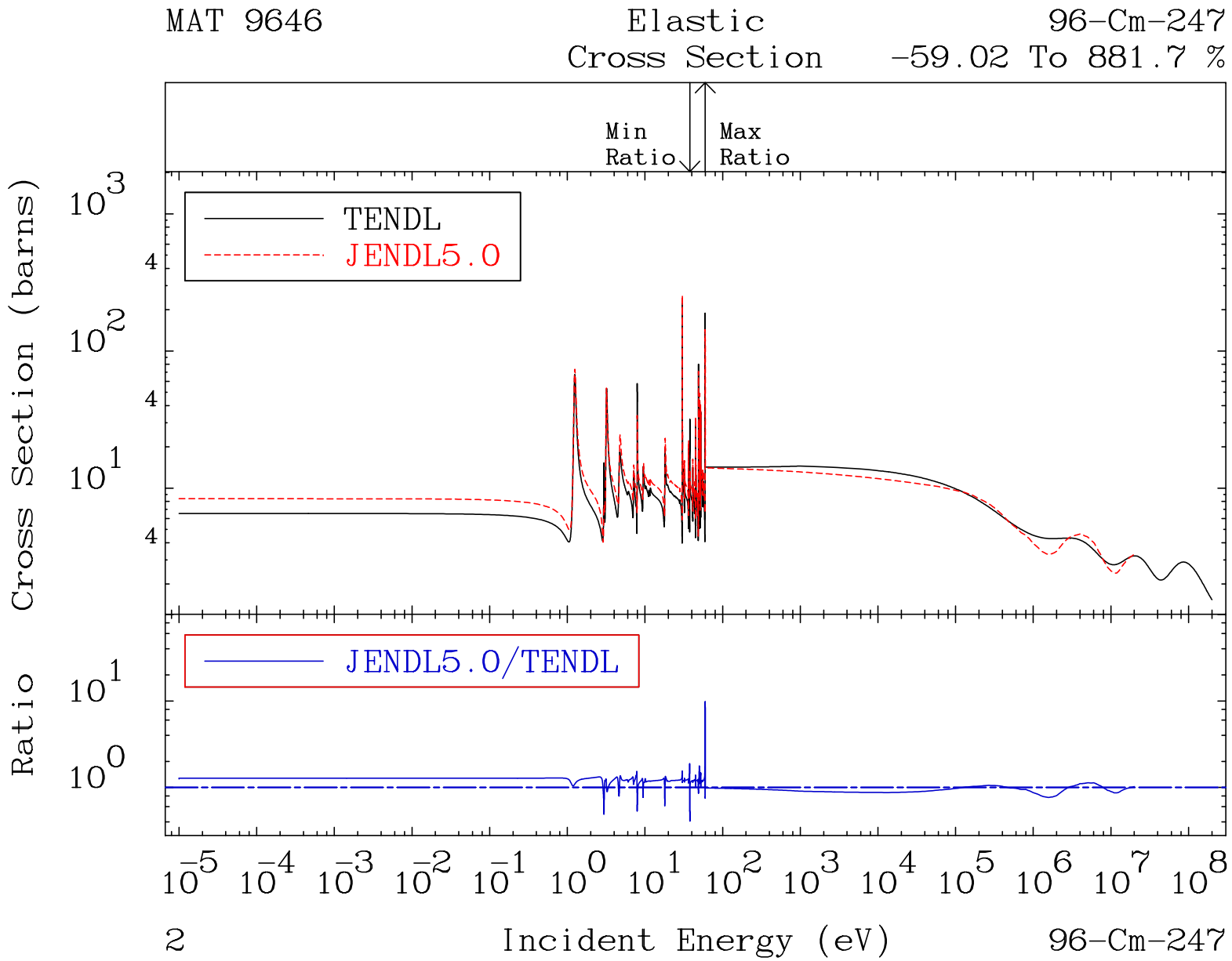
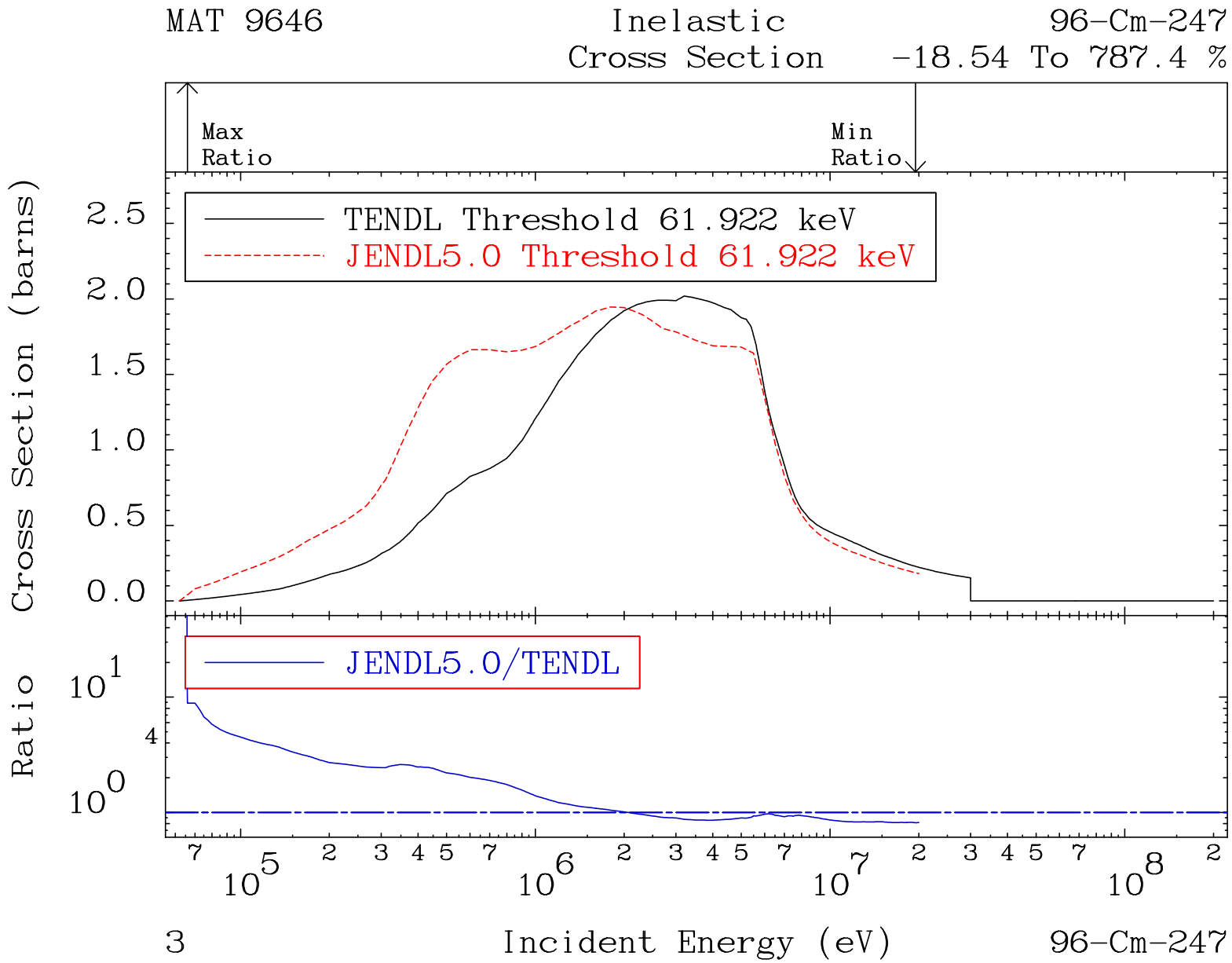
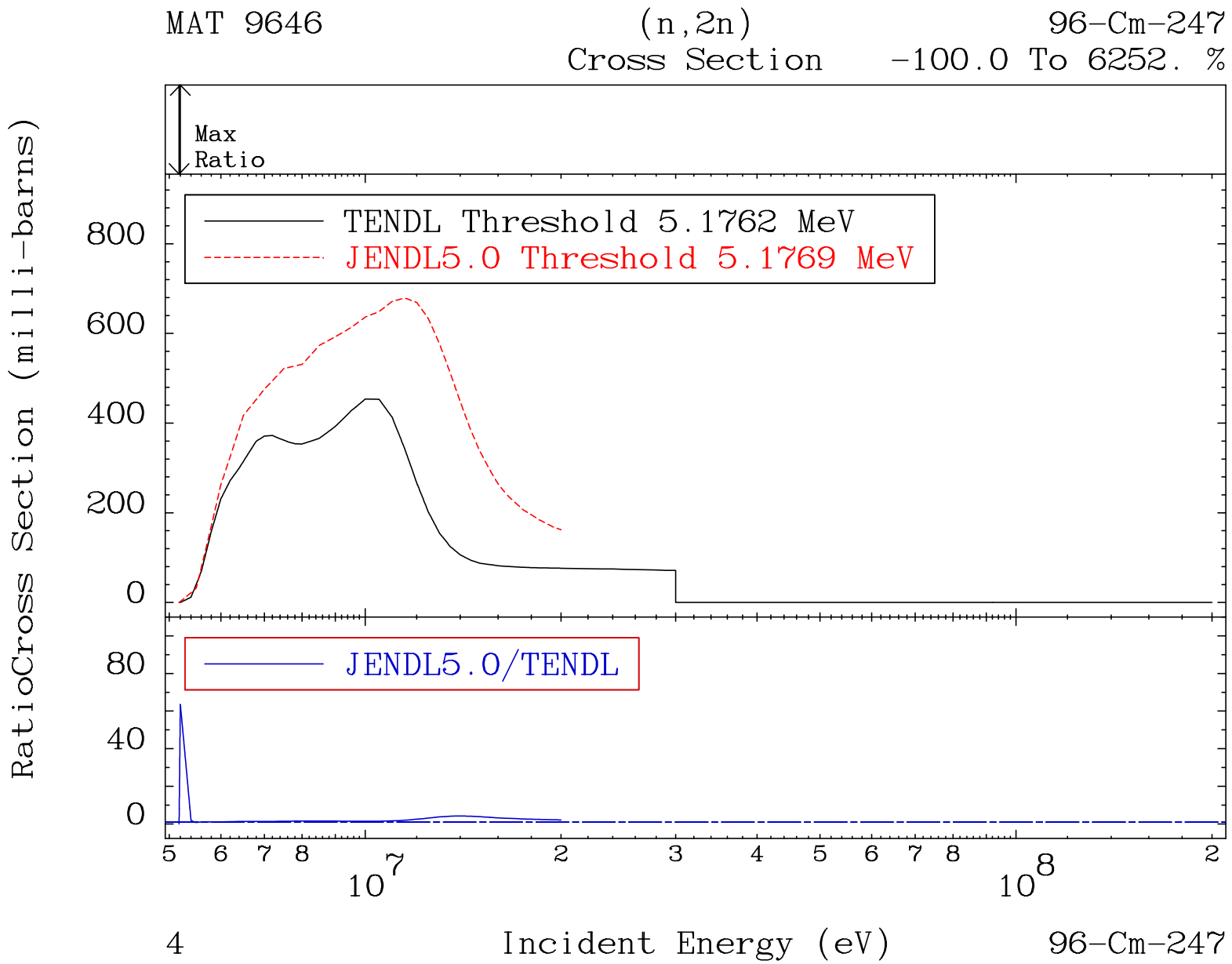
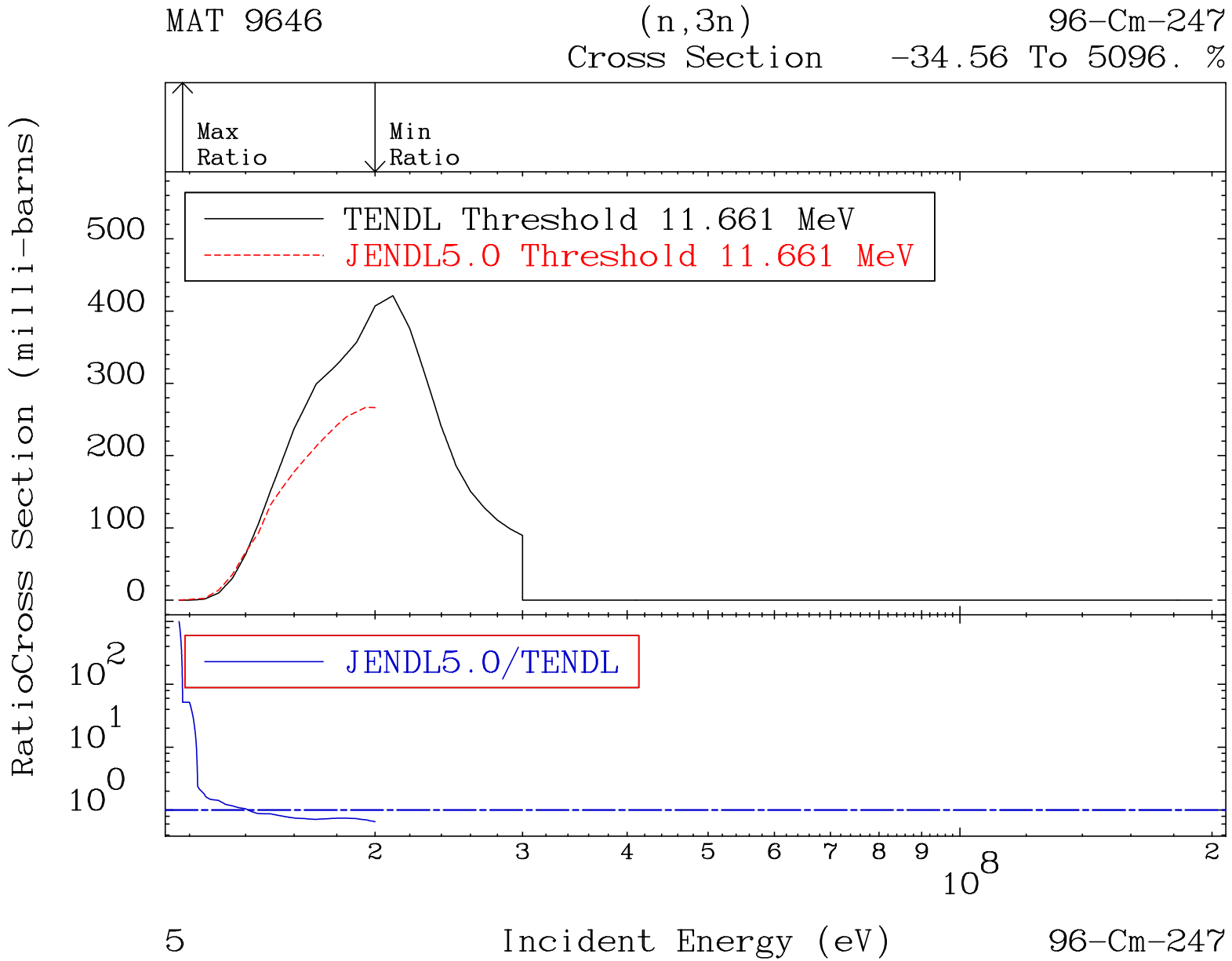
Press Mouse Button to Start

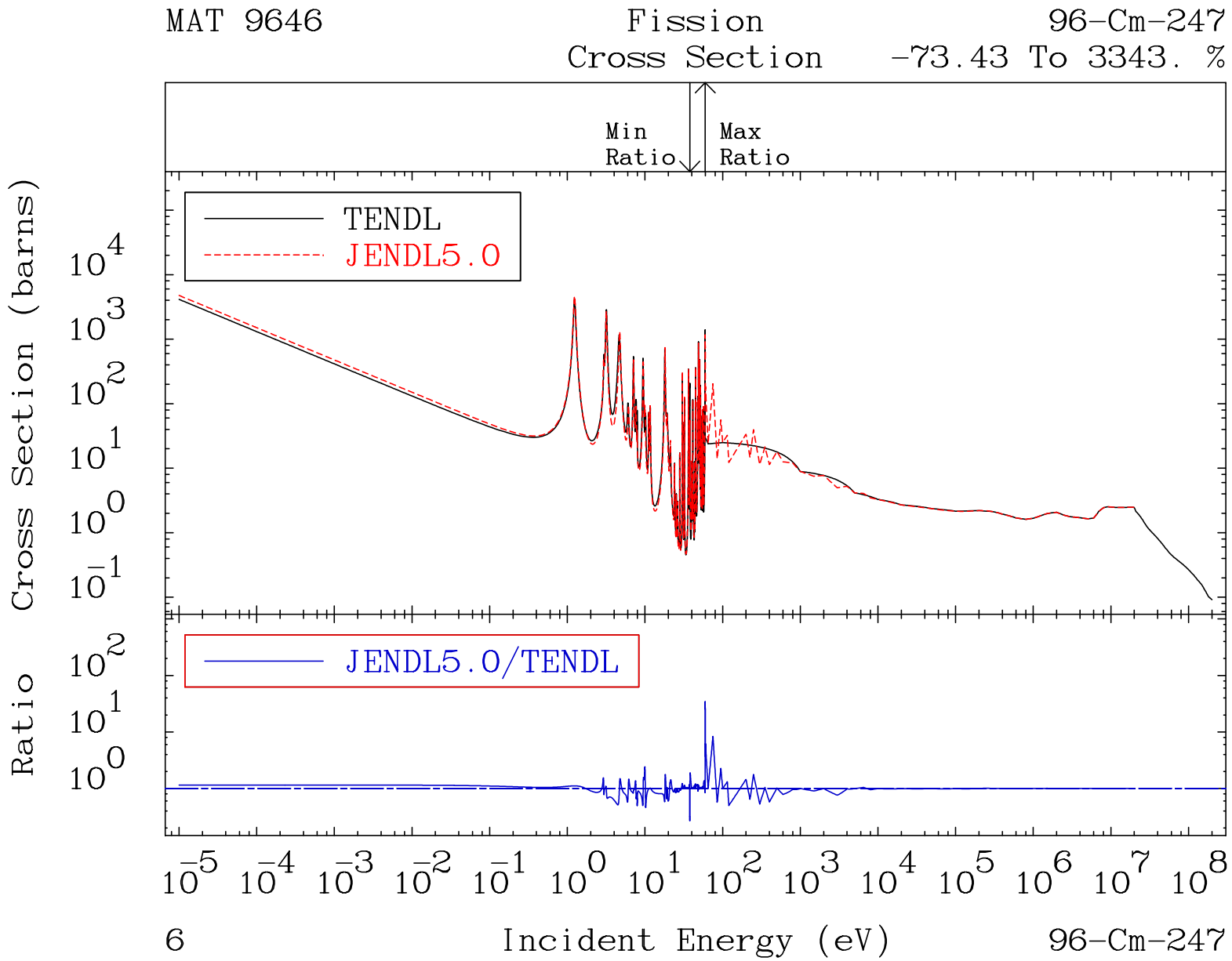

MAT 9646
Total
Cross Section
96-Cm-247
-74.77 To 3064. %
Min
Ratio
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
1
96-Cm-247

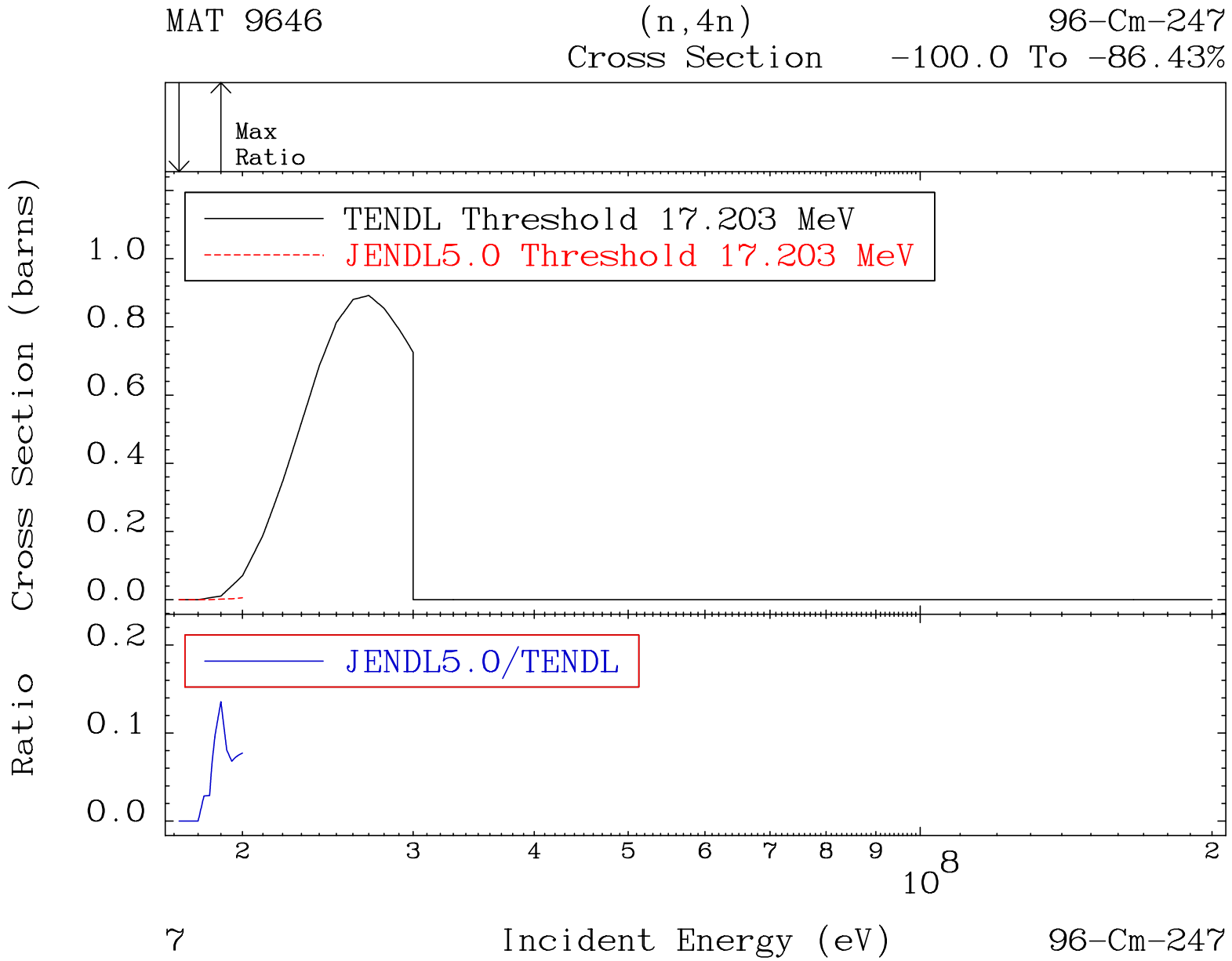

MAT 9646
Elastic
Cross Section
96-Cm-247
-59.02 To 881.7 %
Min
Ratio
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
96-Cm-247

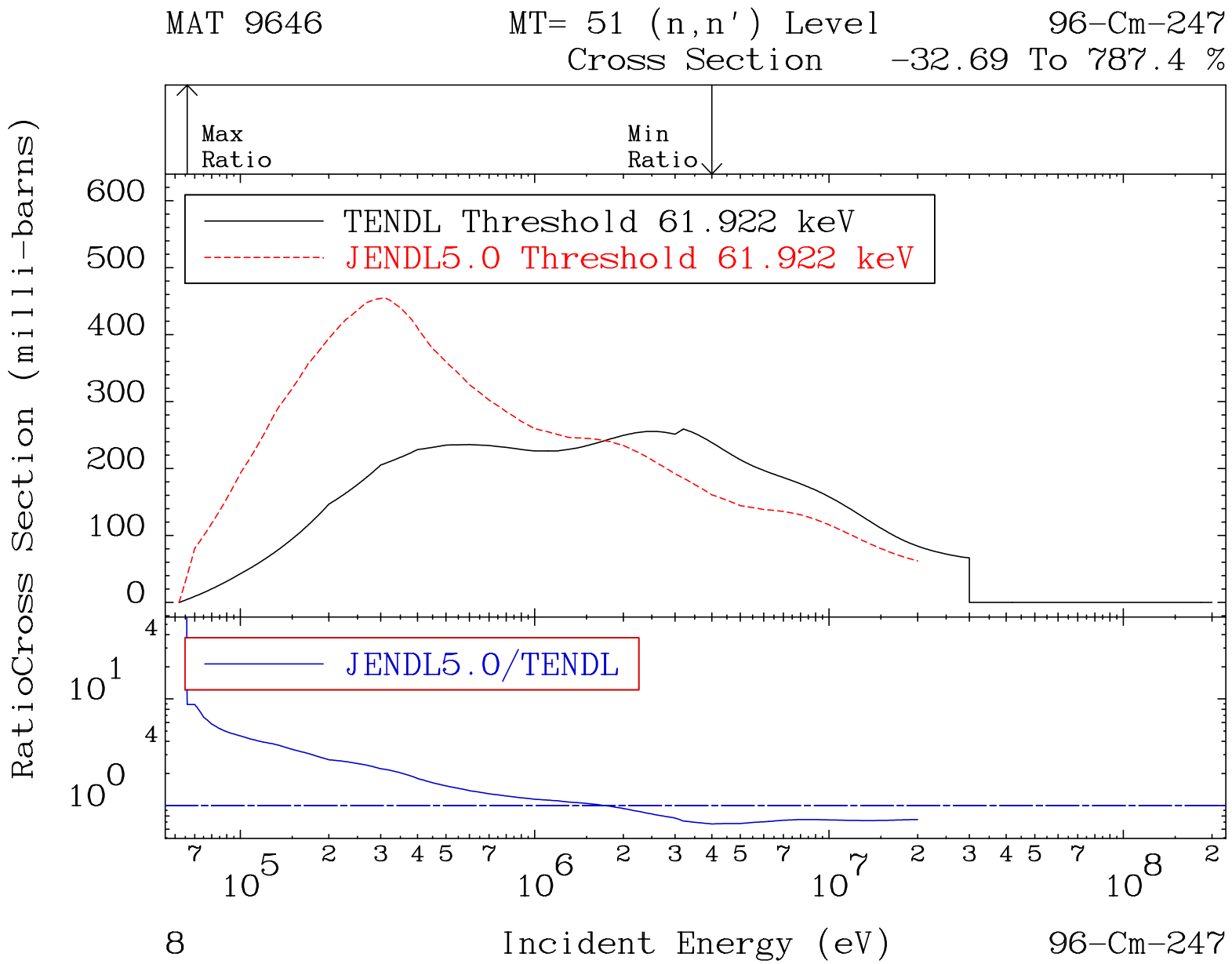

MAT 9646
Inelastic
Cross Section
96-Cm-247
-18.54 To 787.4 %
Max
Ratio
Min
Ratio
TENDL Threshold 61.922 keV
JENDL5.0 Threshold 61.922 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
3
4
96-Cm-247

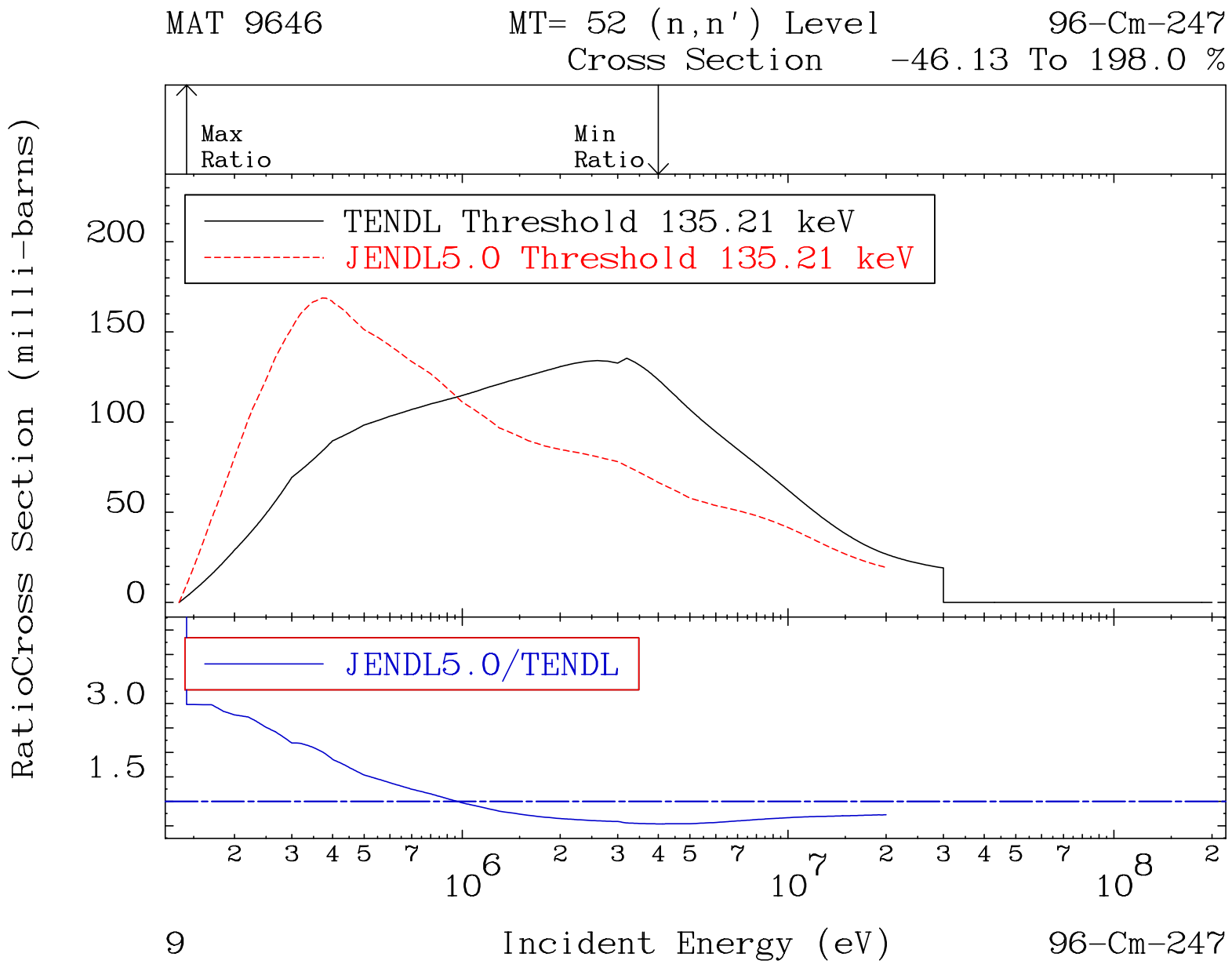

MAT 9646
(n,2n)
Cross Section
96-Cm-247
-100.0 To 6252. %
Max
Ratio
TENDL Threshold 5.1762 MeV
JENDL5.0 Threshold 5.1769 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
80
40
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
4
Incident Energy (eV)
96-Cm-247

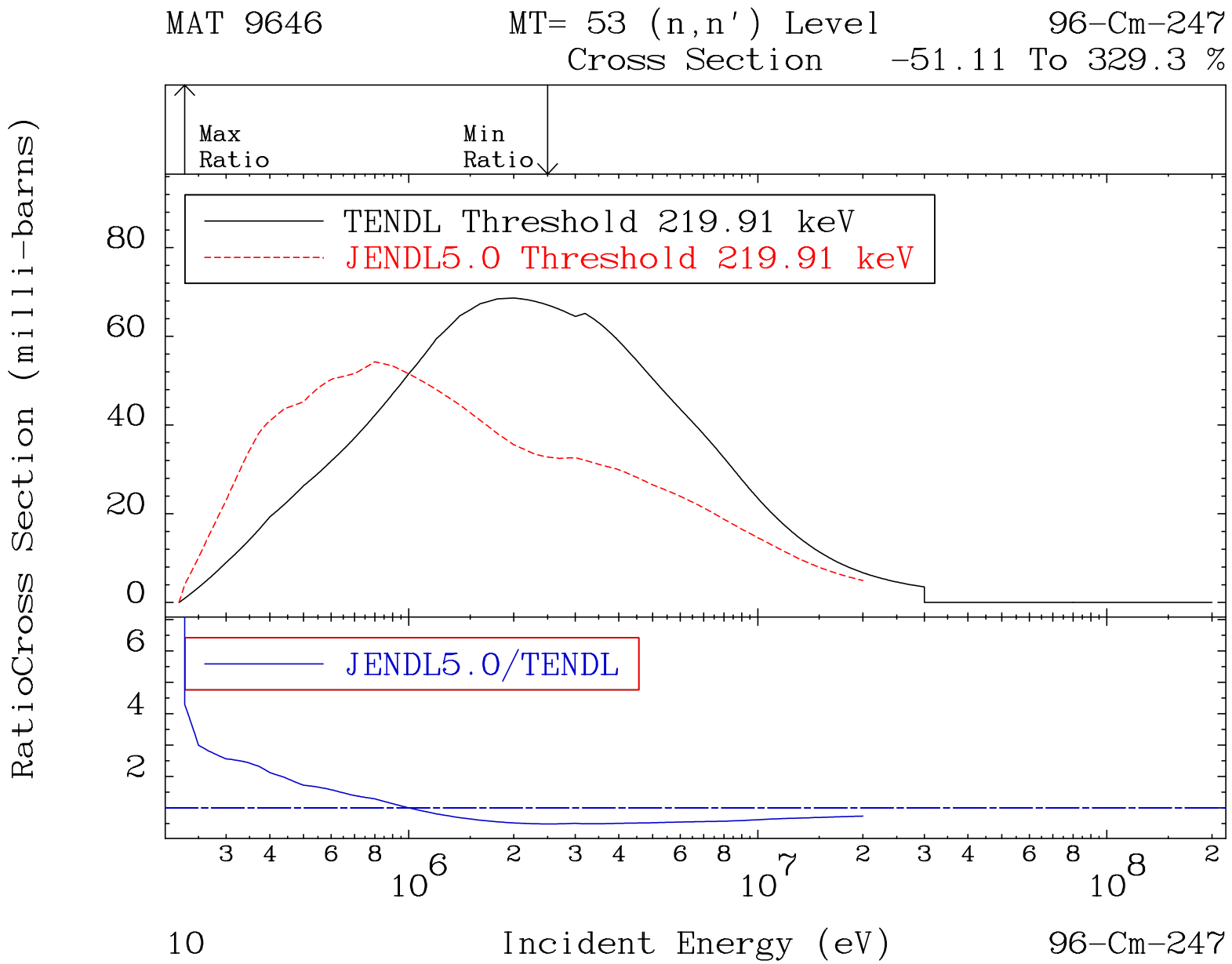

MAT 9646
(n,3n)
96-Cm-247
Cross Section
-34.56 To 5096. %
Max Ratio
Min Ratio
TENDL Threshold 11.661 MeV
JENDL5.0 Threshold 11.661 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
96-Cm-247

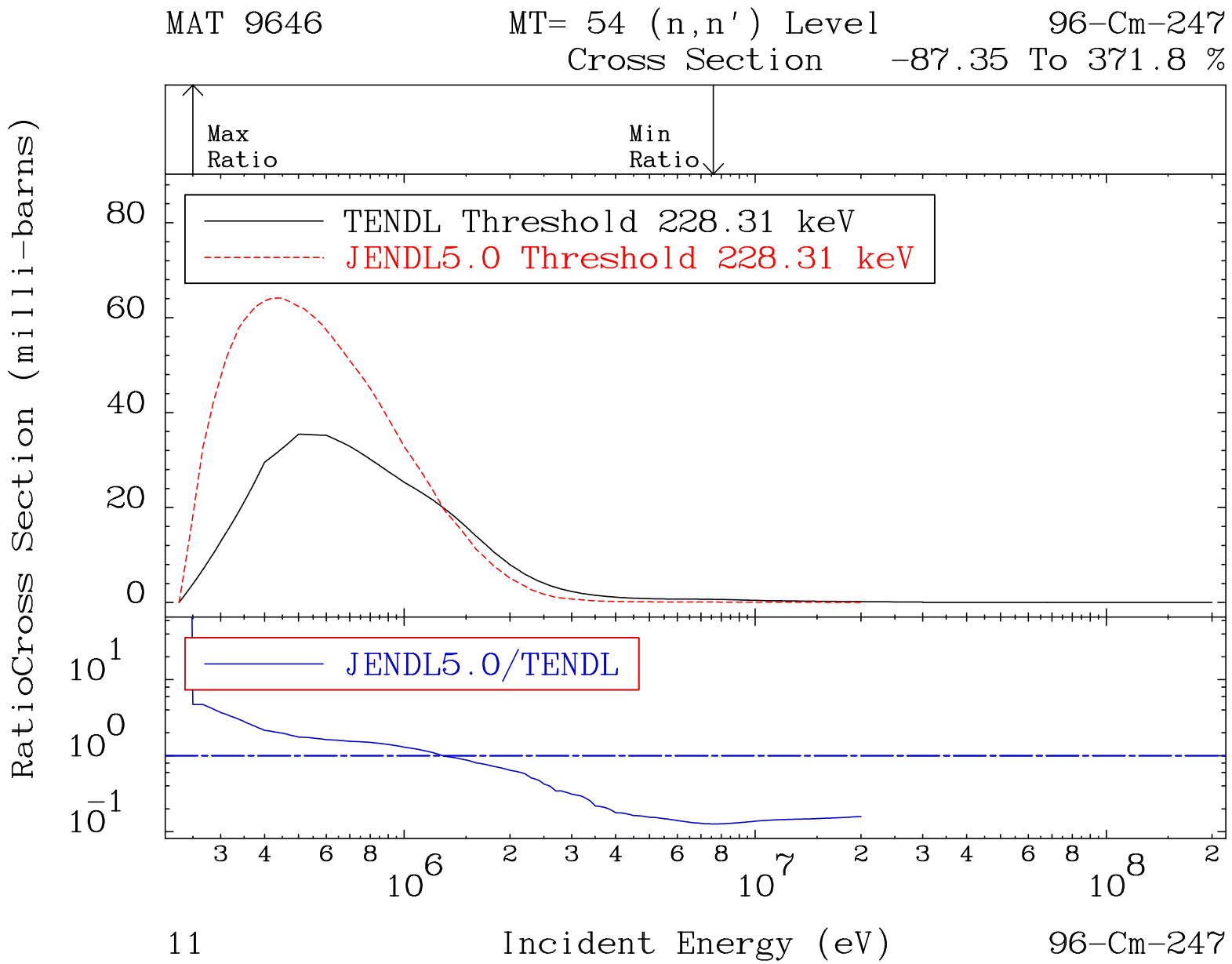

MAT 9646
Fission
Cross Section
96-Cm-247
-73.43 To 3343. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
6
96-Cm-247

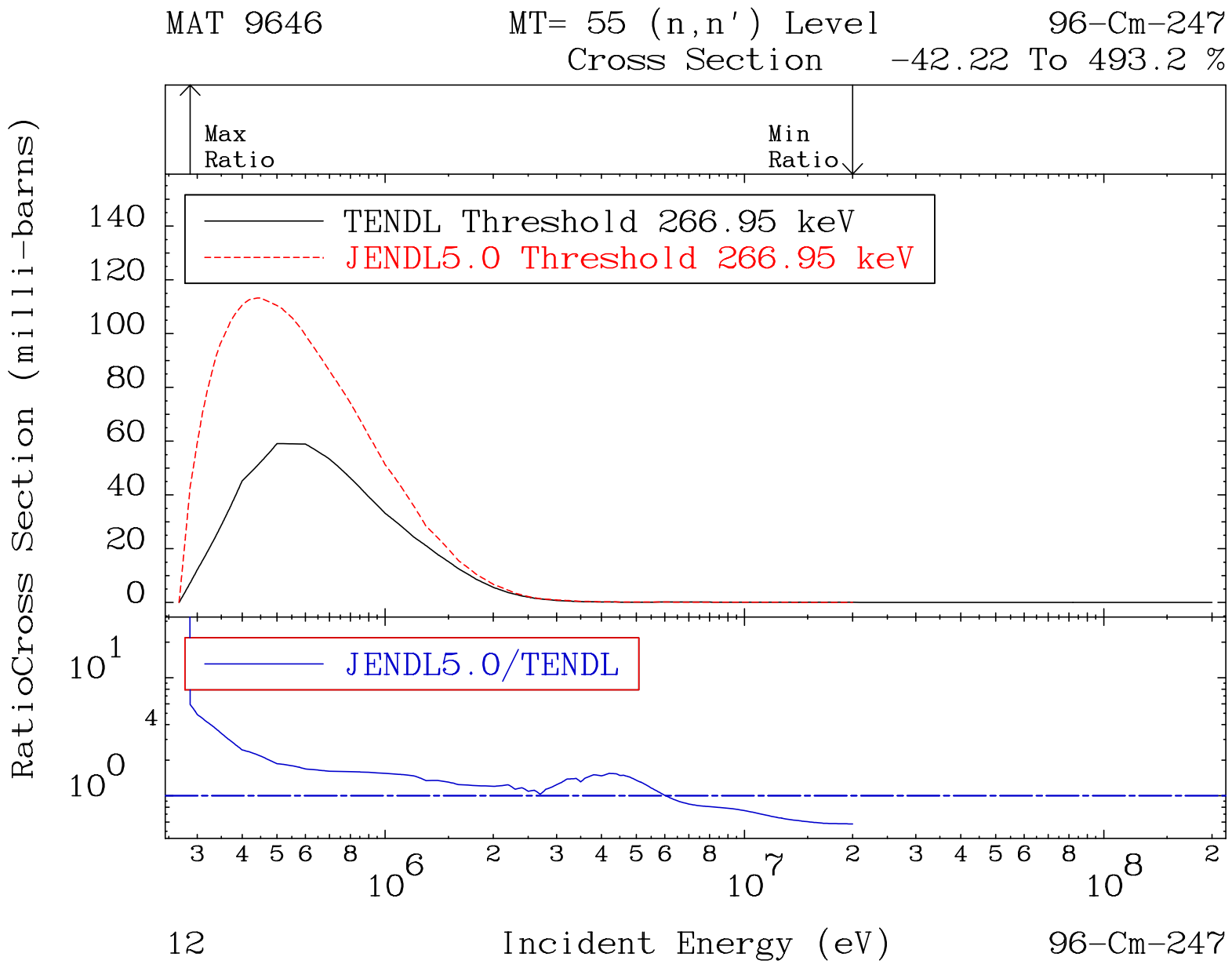

MAT 9646
(n,4n)
Cross Section
96-Cm-247
-100.0 To -86.43%
Max
Ratio
TENDL Threshold 17.203 MeV
JENDL5.0 Threshold 17.203 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
0.2
0.1
0.0
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
96-Cm-247

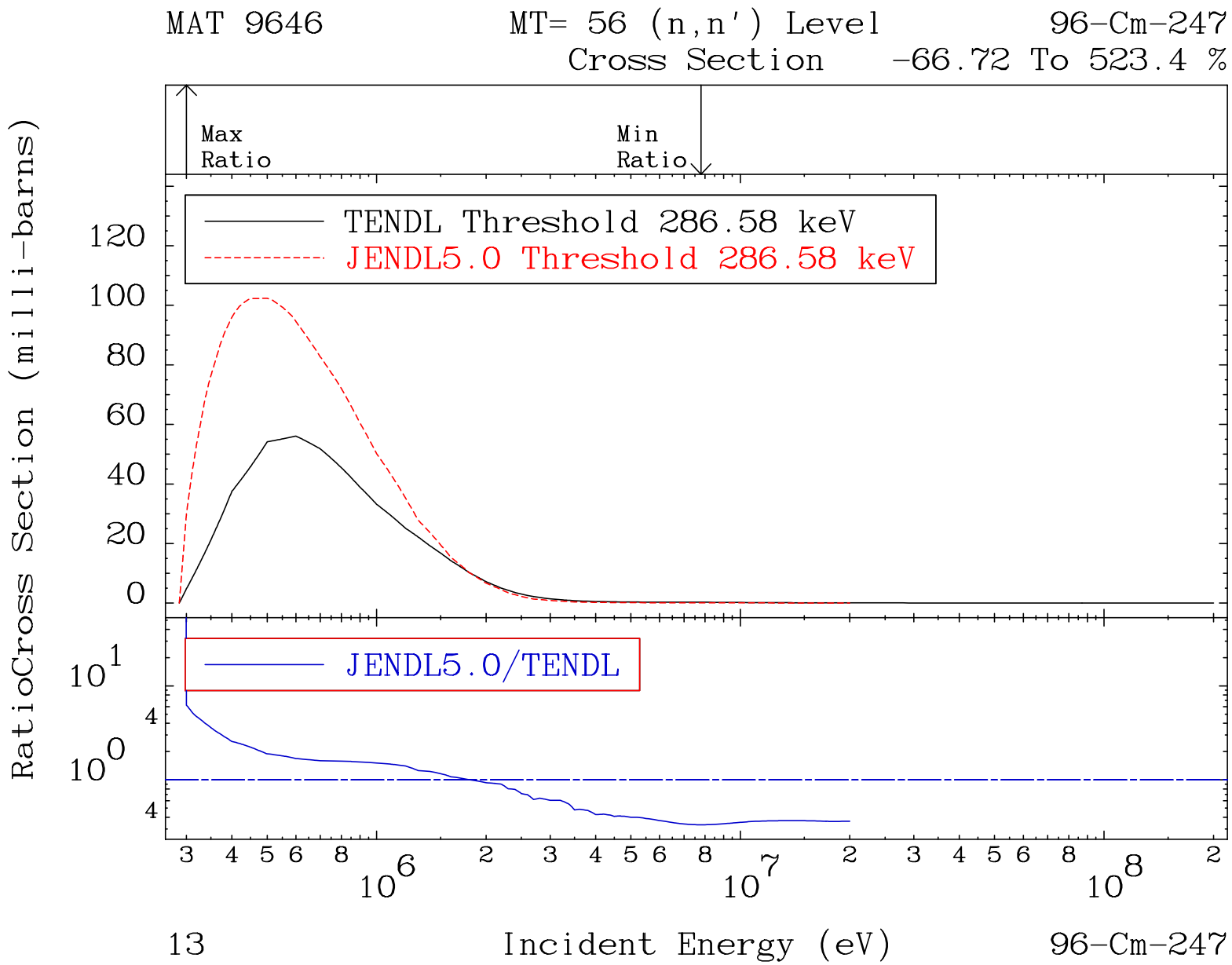

MAT 9646
MT= 51 (n,n') Level
96-Cm-247
Cross Section
-32.69 To 787.4 %
Max Ratio
Min Ratio
TENDL Threshold 61.922 keV
JENDL5.0 Threshold 61.922 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
8
96-Cm-247

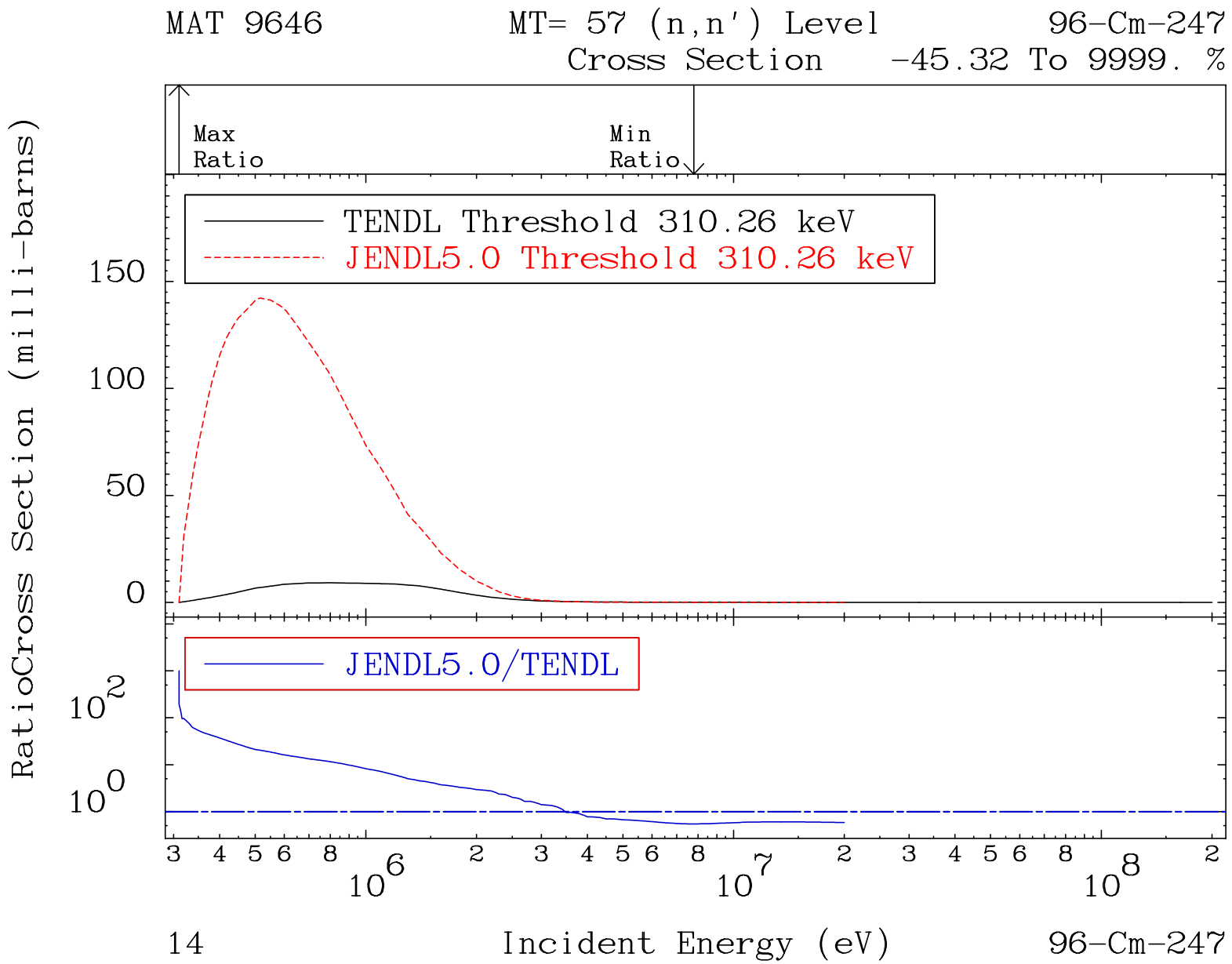

MAT 9646
MT= 52 (n,n') Level
96-Cm-247
Cross Section -46.13 To 198.0 %
Max Ratio
Min Ratio
TENDL Threshold 135.21 keV
JENDL5.0 Threshold 135.21 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
3.0
1.5
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
9
Incident Energy (eV)
96-Cm-247

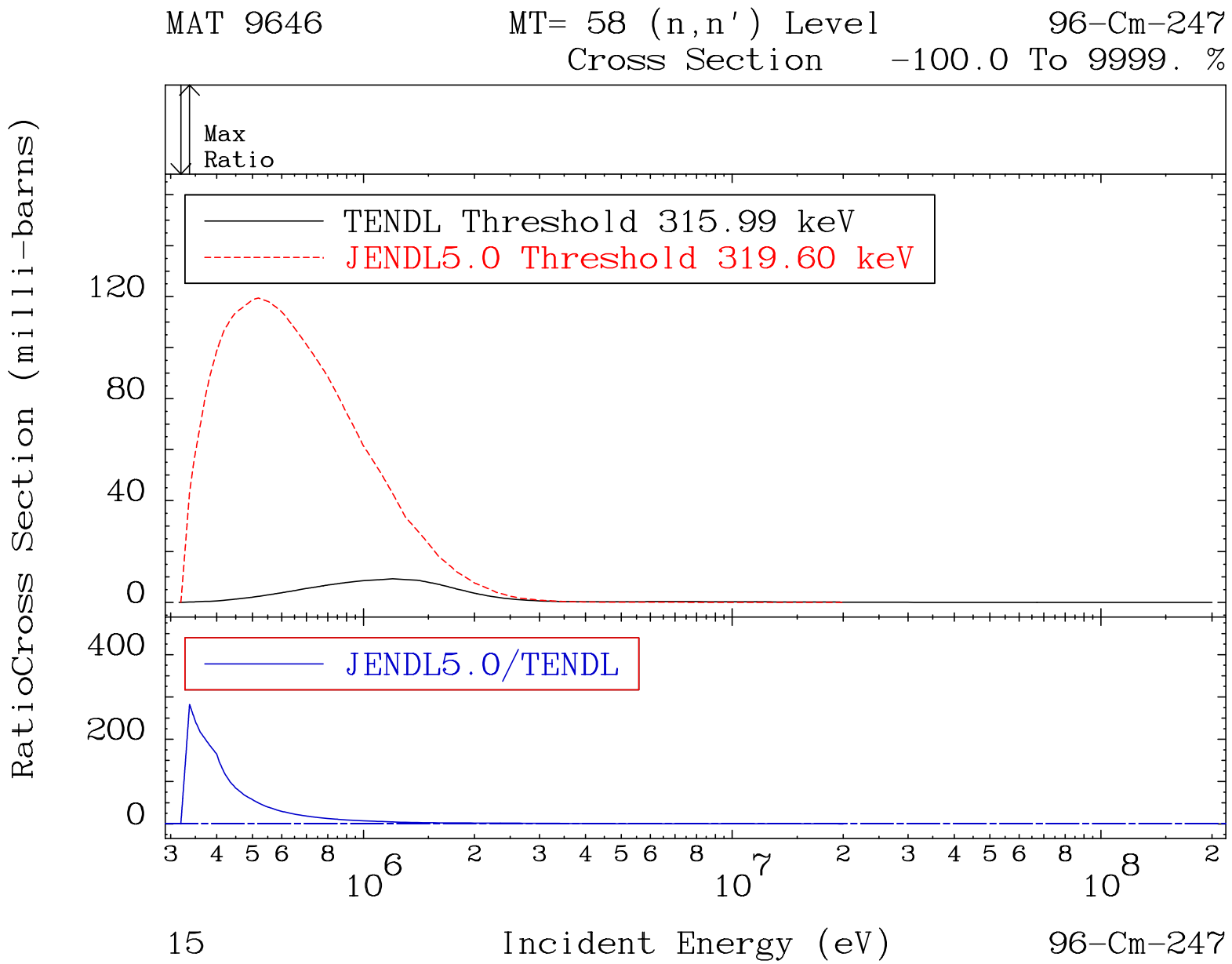

MAT 9646
MT= 53 (n,n') Level
96-Cm-247
Cross Section -51.11 To 329.3 %
Max Ratio
Min Ratio
TENDL Threshold 219.91 keV
JENDL5.0 Threshold 219.91 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
96-Cm-247

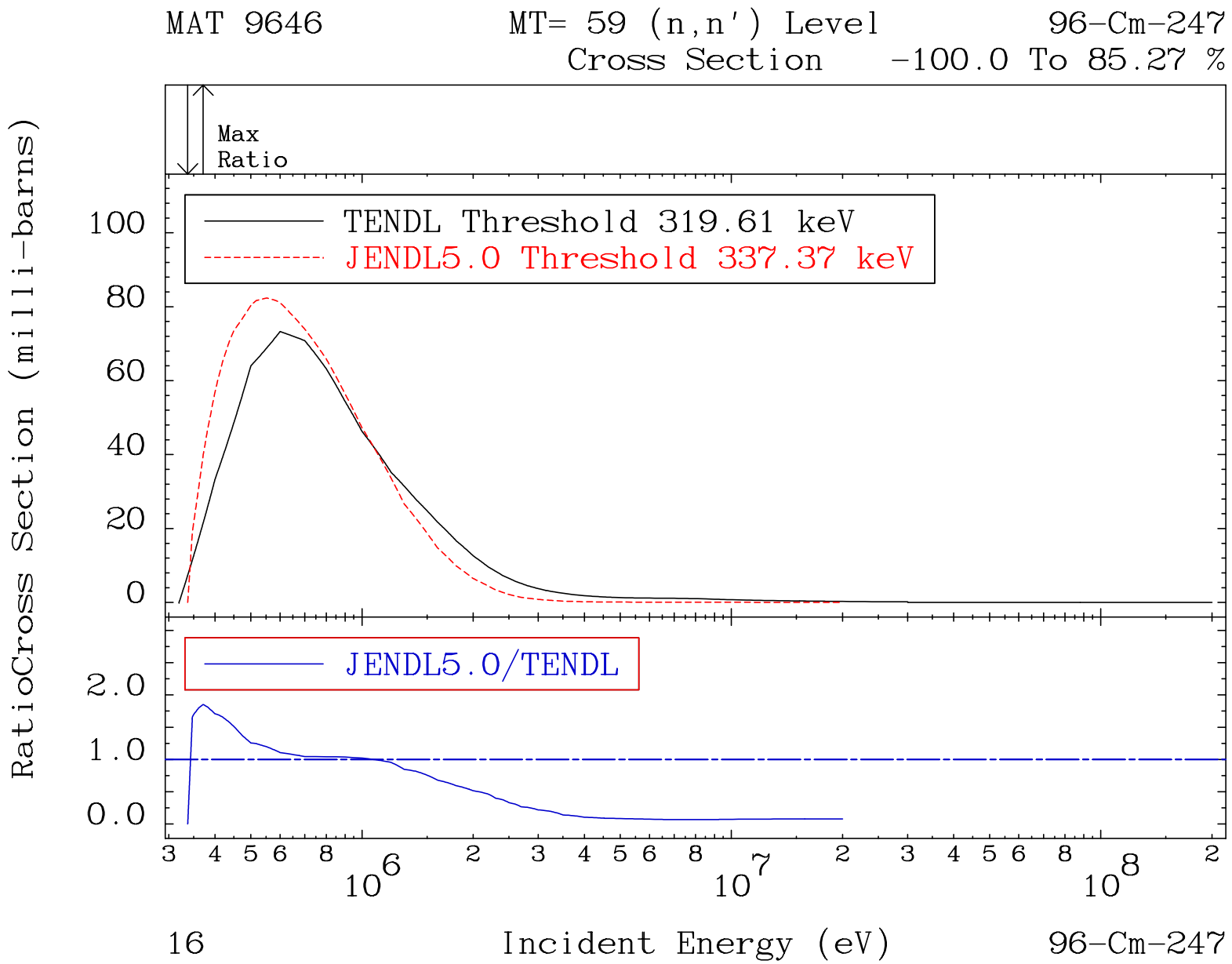

MAT 9646
MT= 54 (n,n') Level
96-Cm-247
Cross Section
-87.35 To 371.8 %
Max Ratio
Min Ratio
TENDL Threshold 228.31 keV
JENDL5.0 Threshold 228.31 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
11
96-Cm-247

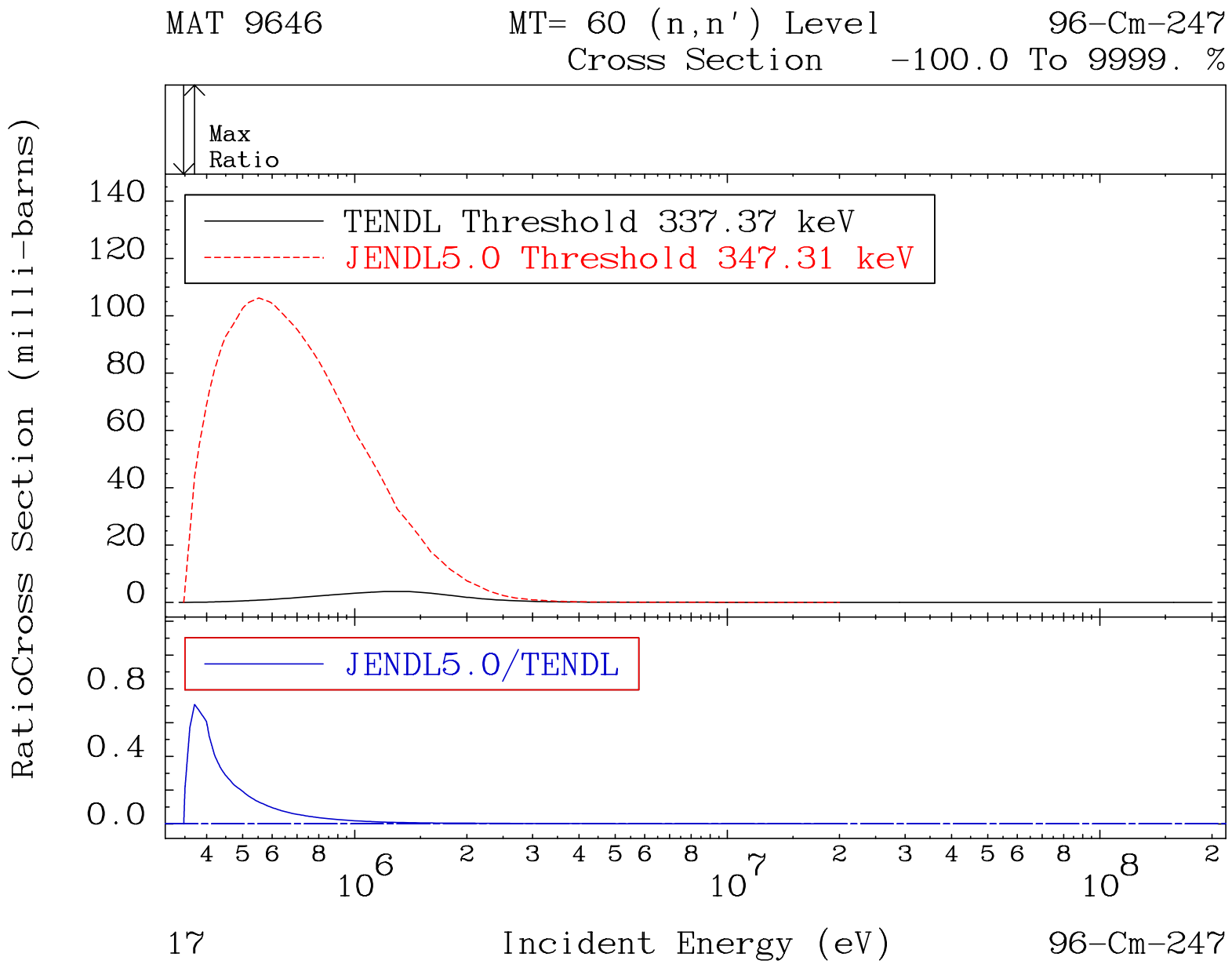

MAT 9646
MT= 55 (n,n') Level
96-Cm-247
Cross Section
-42.22 To 493.2 %
Max Ratio
Min Ratio
TENDL Threshold 266.95 keV
JENDL5.0 Threshold 266.95 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
12
96-Cm-247

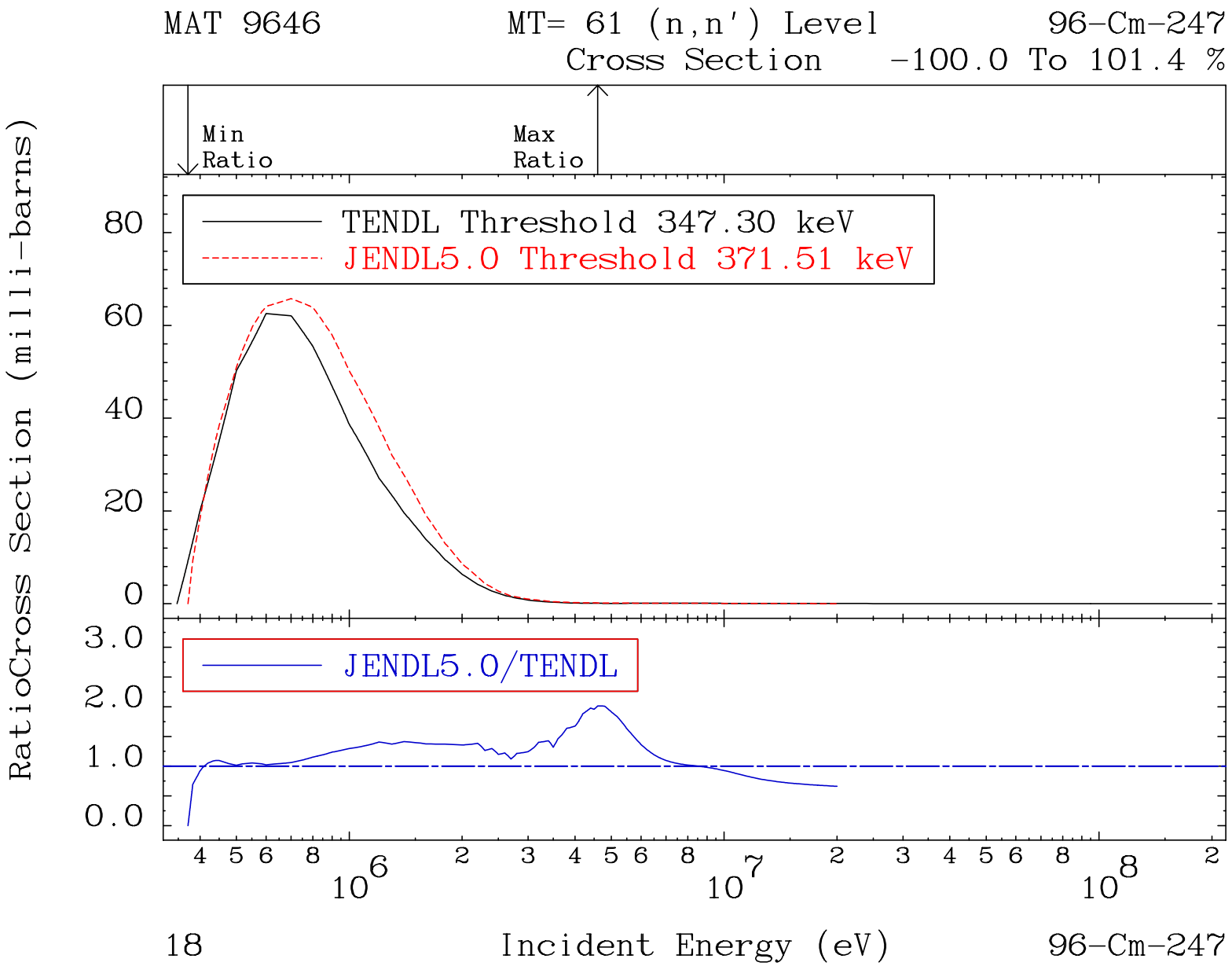

MAT 9646
MT= 56 (n,n') Level
96-Cm-247
Cross Section
-66.72 To 523.4 %
Max Ratio
Min Ratio
TENDL Threshold 286.58 keV
JENDL5.0 Threshold 286.58 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
13
96-Cm-247

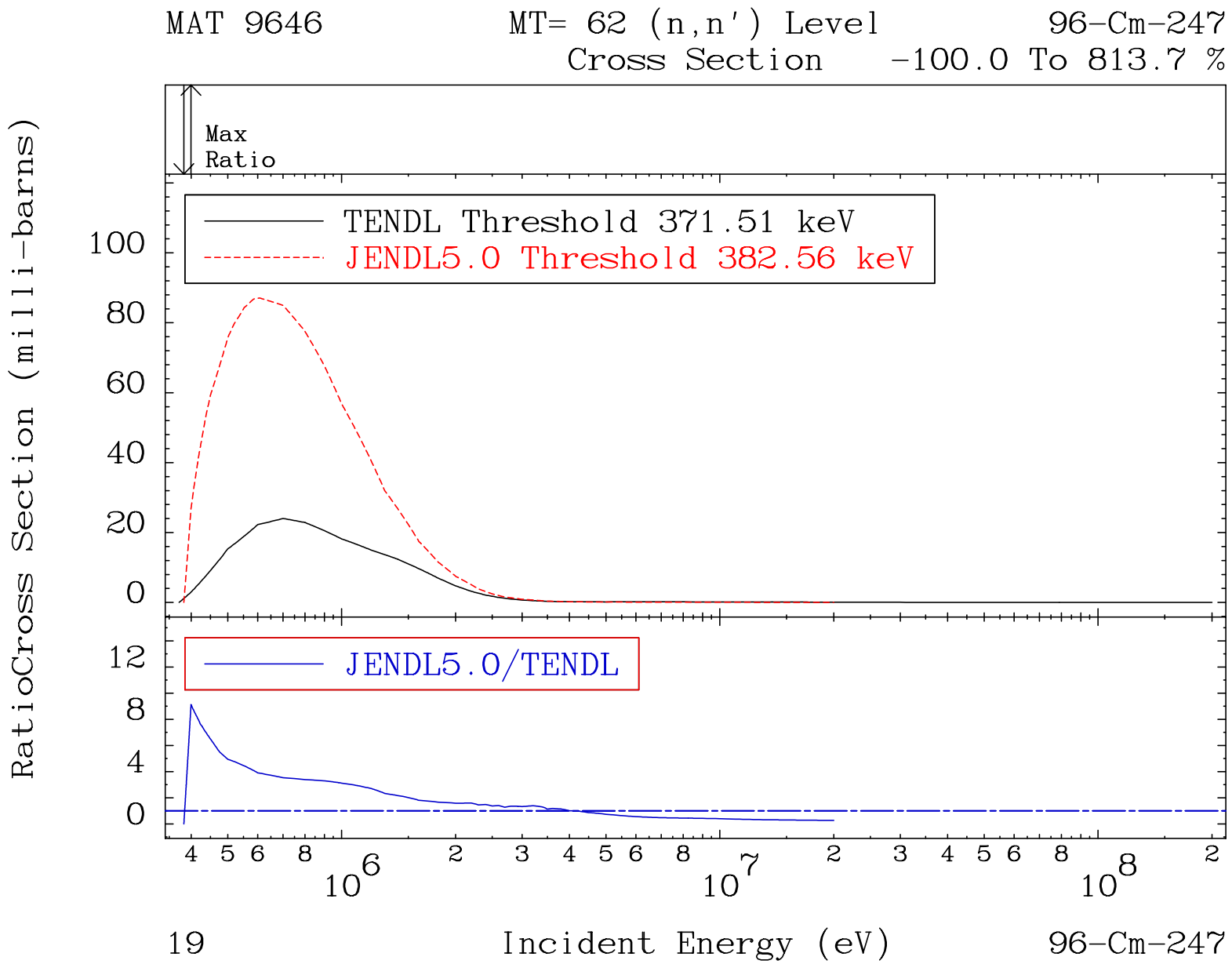

MAT 9646
MT= 57 (n,n') Level
Cross Section
96-Cm-247
-45.32 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 310.26 keV
JENDL5.0 Threshold 310.26 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
150
100
50
0
10^2
10^0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
14
Incident Energy (eV)
96-Cm-247

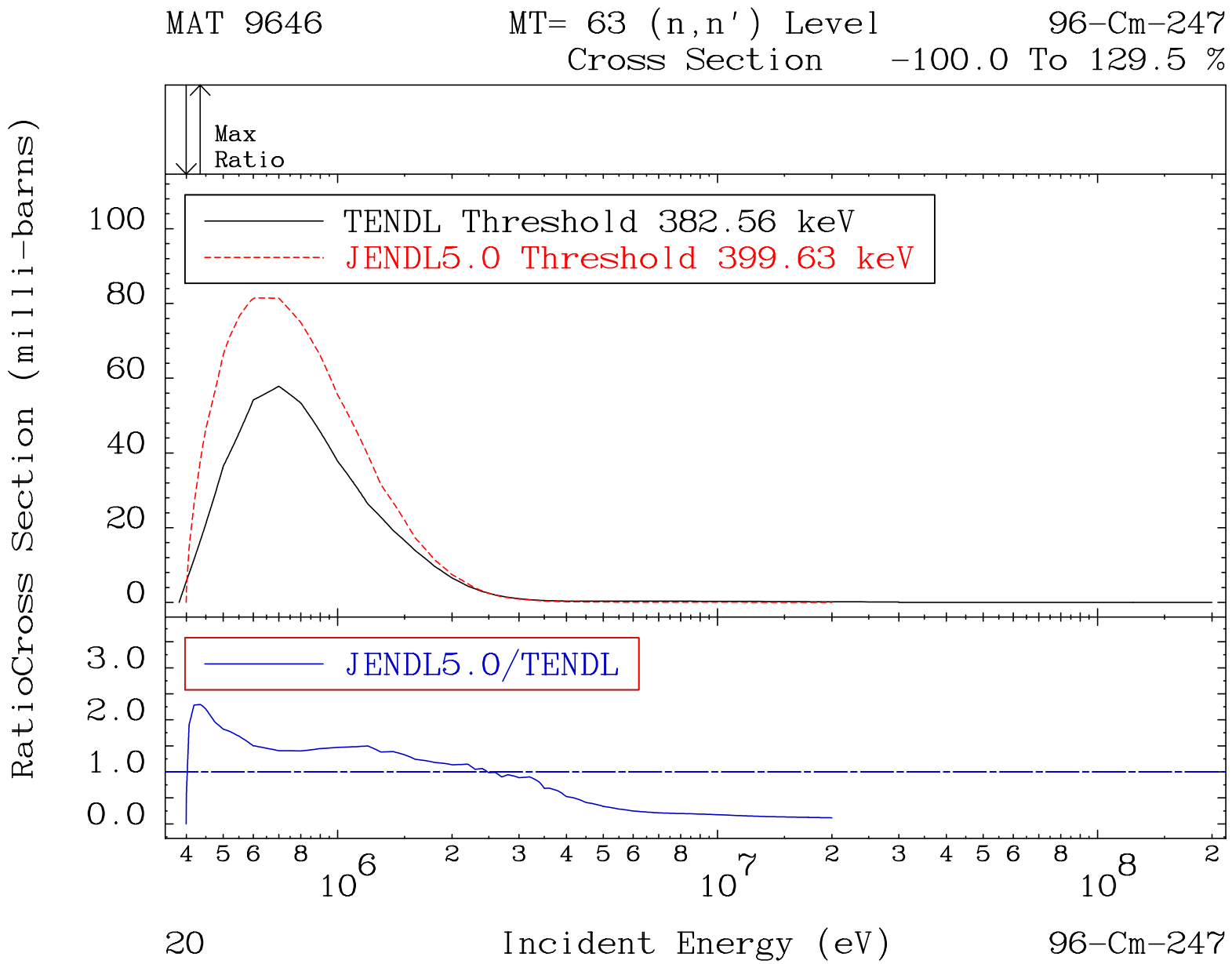

MAT 9646
MT= 58 (n,n') Level
96-Cm-247
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 315.99 keV
JENDL5.0 Threshold 319.60 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
80
40
0
400
200
0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
15
Incident Energy (eV)
96-Cm-247

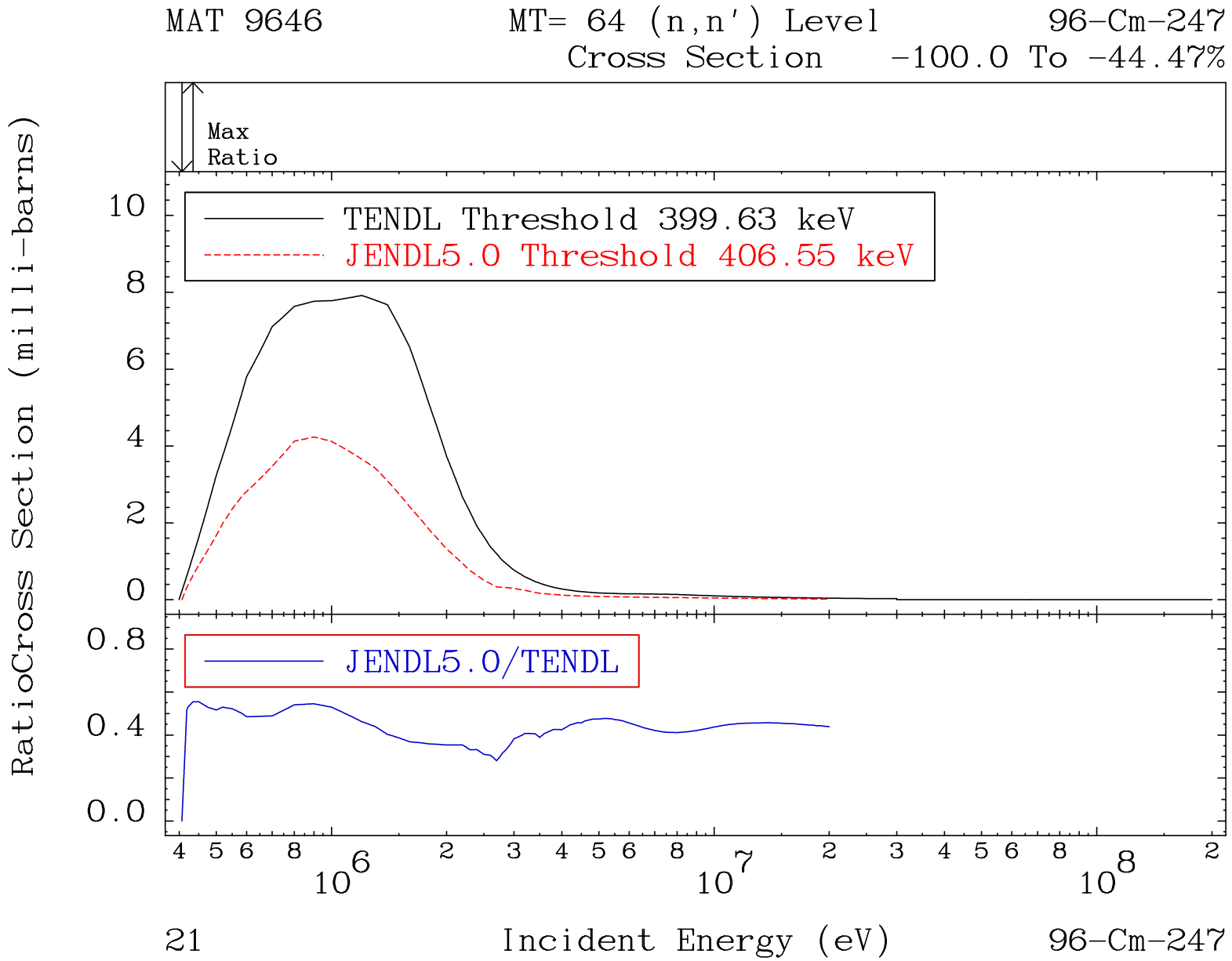

MAT 9646
MT= 59 (n,n') Level
Cross Section
96-Cm-247
-100.0 To 85.27 %
Max
Ratio
TENDL Threshold 319.61 keV
JENDL5.0 Threshold 337.37 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.0
1.0
0.0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
16
Incident Energy (eV)
96-Cm-247

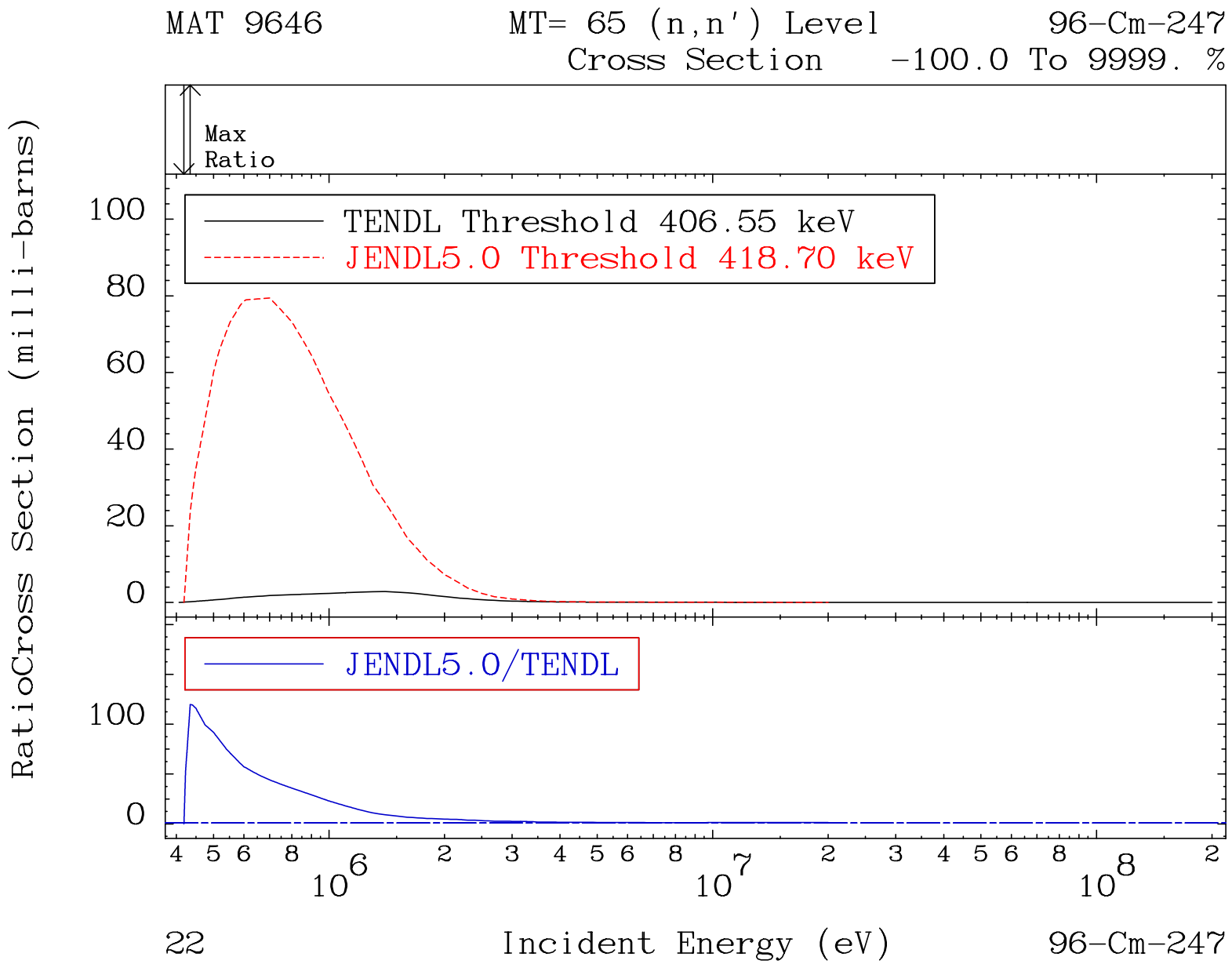

MAT 9646
MT= 60 (n,n') Level
96-Cm-247
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 337.37 keV
JENDL5.0 Threshold 347.31 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
0.8
0.4
0.0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
17
Incident Energy (eV)
96-Cm-247

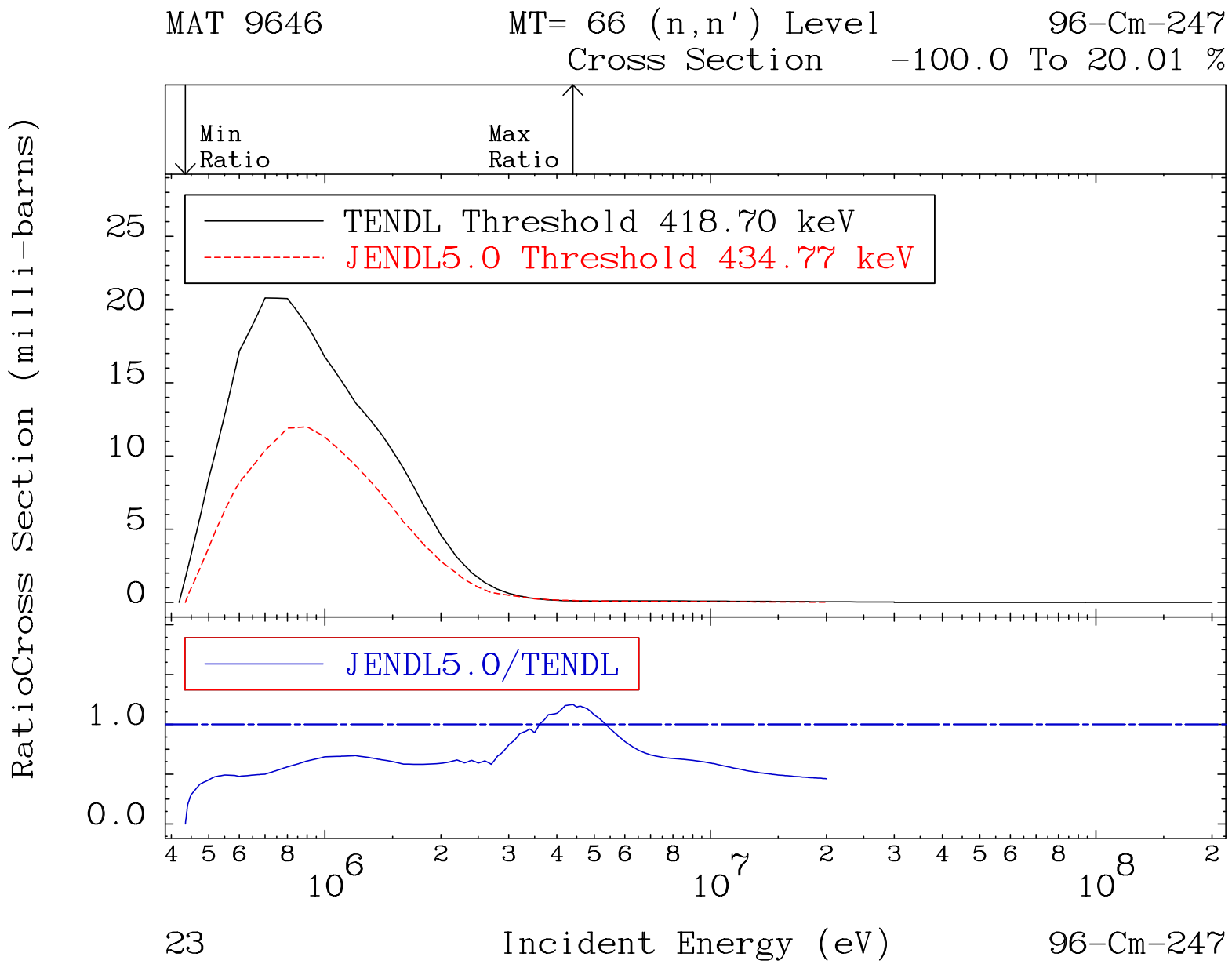

MAT 9646
MT= 61 (n,n') Level
96-Cm-247
Cross Section -100.0 To 101.4 %
Min Ratio
Max Ratio
TENDL Threshold 347.30 keV
JENDL5.0 Threshold 371.51 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
18
96-Cm-247

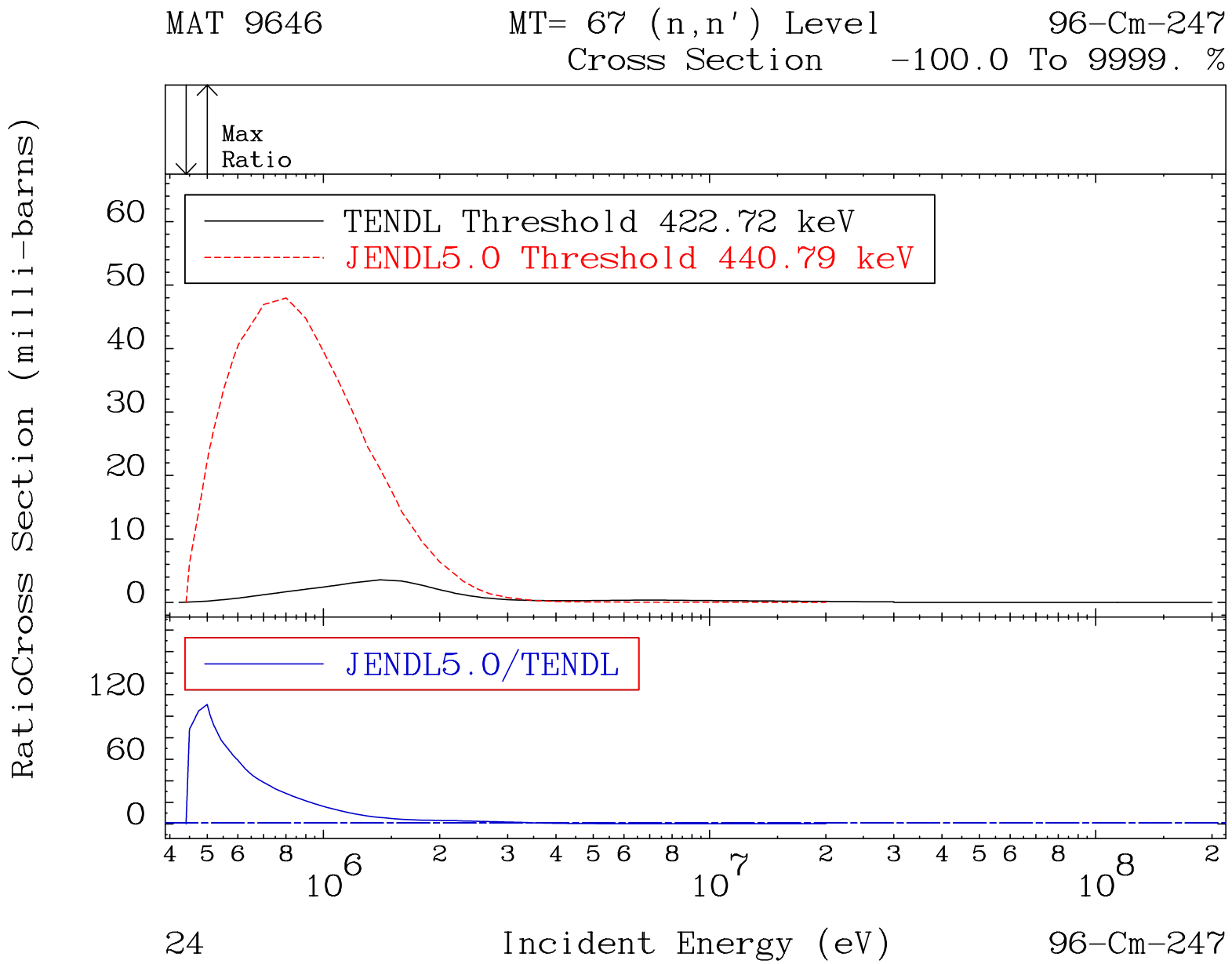

MAT 9646
MT= 62 (n,n') Level
96-Cm-247
Cross Section
-100.0 To 813.7 %
Max
Ratio
TENDL Threshold 371.51 keV
JENDL5.0 Threshold 382.56 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
12
8
4
0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
19
Incident Energy (eV)
96-Cm-247

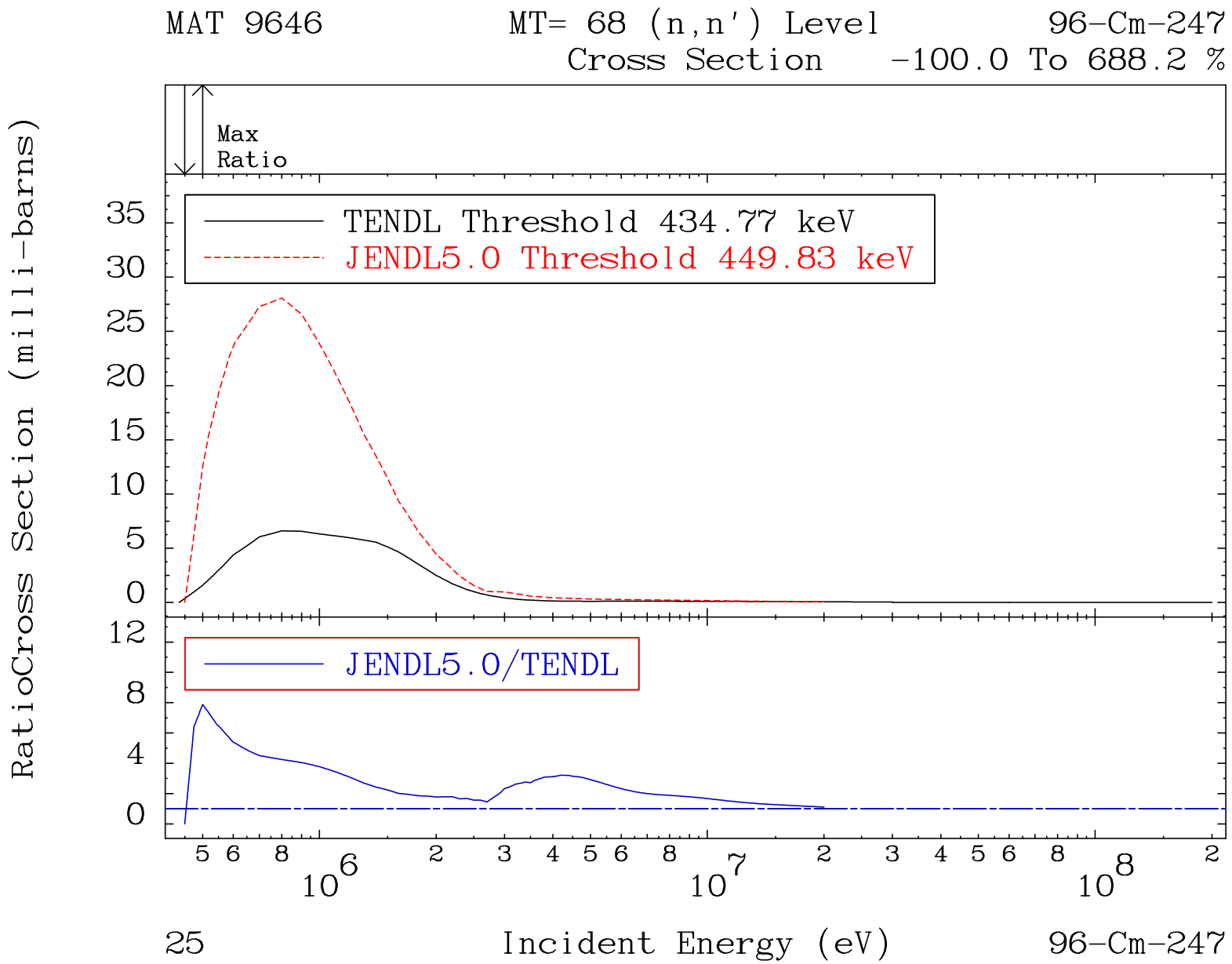

MAT 9646
MT= 63 (n,n') Level
Cross Section
96-Cm-247
-100.0 To 129.5 %
Max
Ratio
TENDL Threshold 382.56 keV
JENDL5.0 Threshold 399.63 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
3.0
2.0
1.0
0.0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
20
Incident Energy (eV)
96-Cm-247

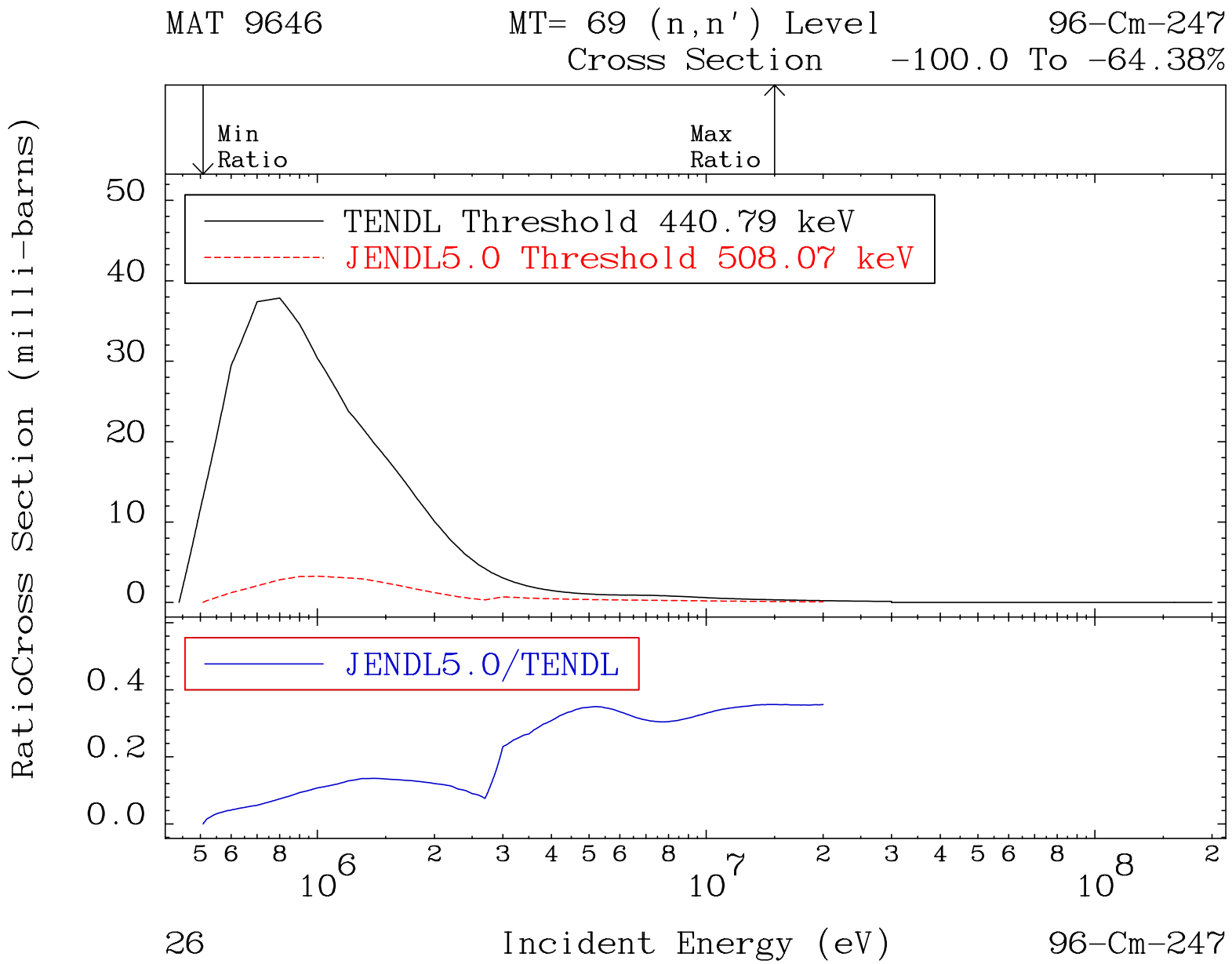

MAT 9646
MT= 64 (n,n') Level
96-Cm-247
Cross Section
-100.0 To -44.47%
Max
Ratio
TENDL Threshold 399.63 keV
JENDL5.0 Threshold 406.55 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
0.8
0.4
0.0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
21
Incident Energy (eV)
96-Cm-247

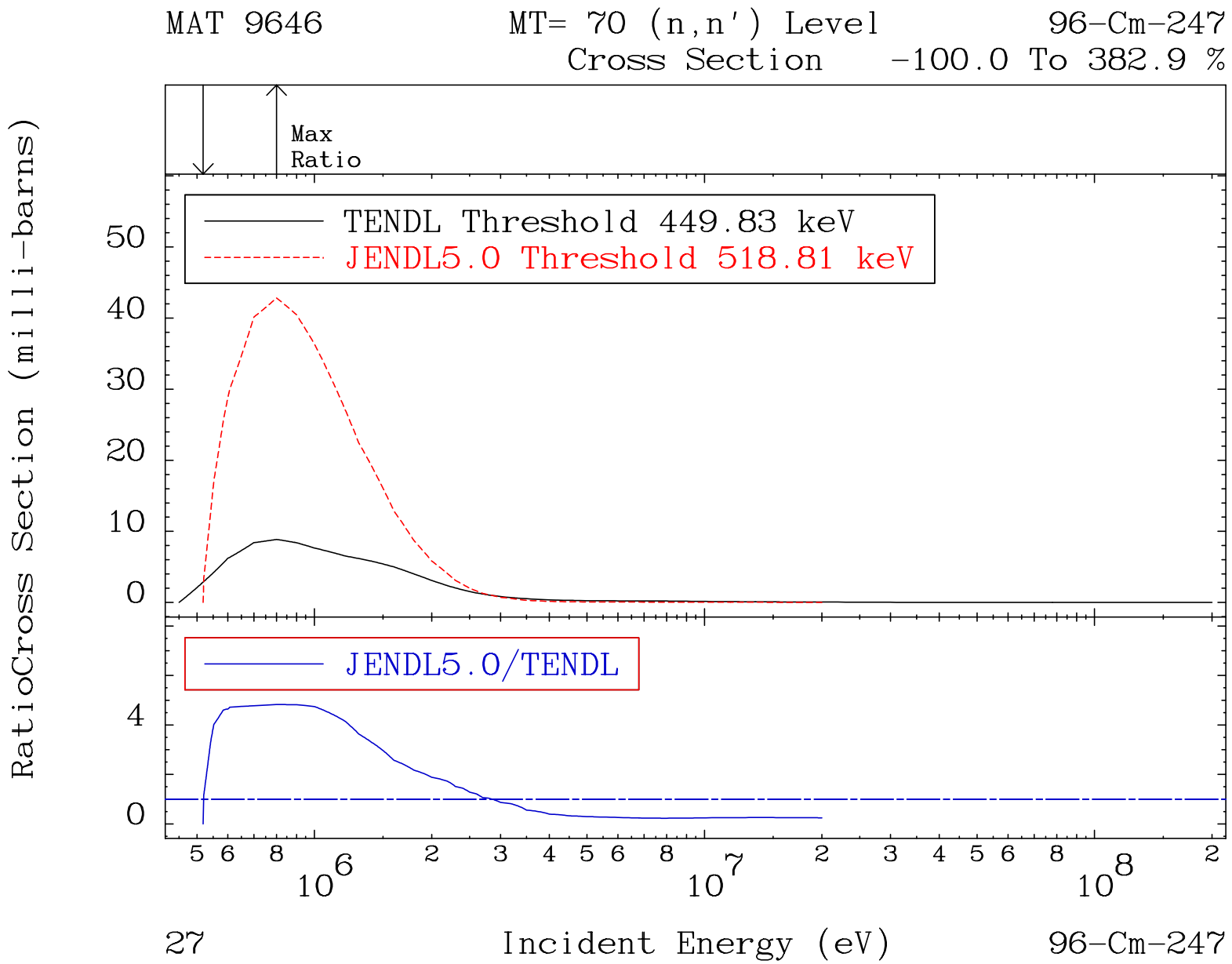

MAT 9646
MT= 65 (n,n') Level
96-Cm-247
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 406.55 keV
JENDL5.0 Threshold 418.70 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
100
0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
22
Incident Energy (eV)
96-Cm-247

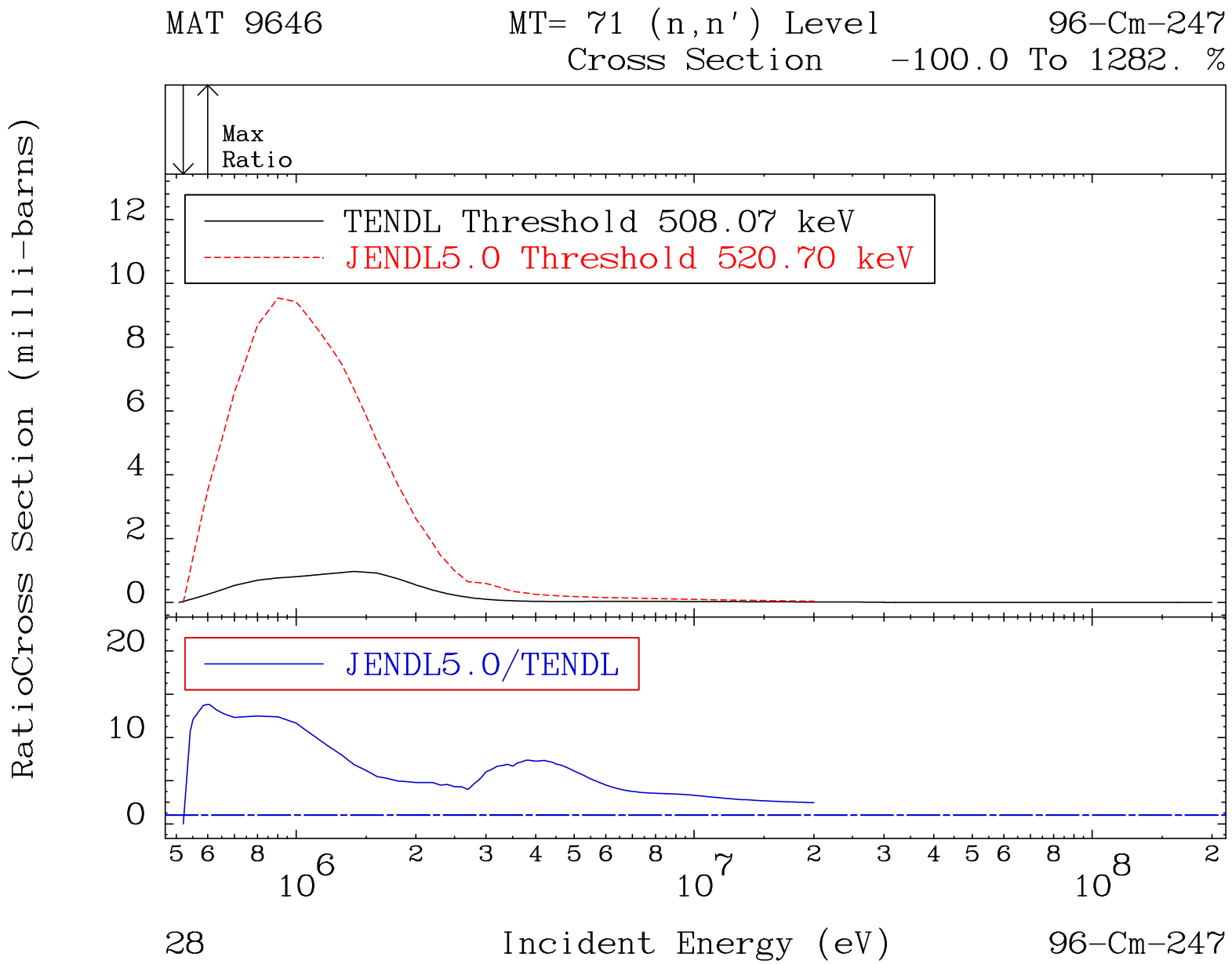

MAT 9646
MT= 66 (n,n') Level
96-Cm-247
Cross Section
-100.0 To 20.01 %
Min Ratio
Max Ratio
TENDL Threshold 418.70 keV
JENDL5.0 Threshold 434.77 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
1.0
0.0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
23
Incident Energy (eV)
96-Cm-247

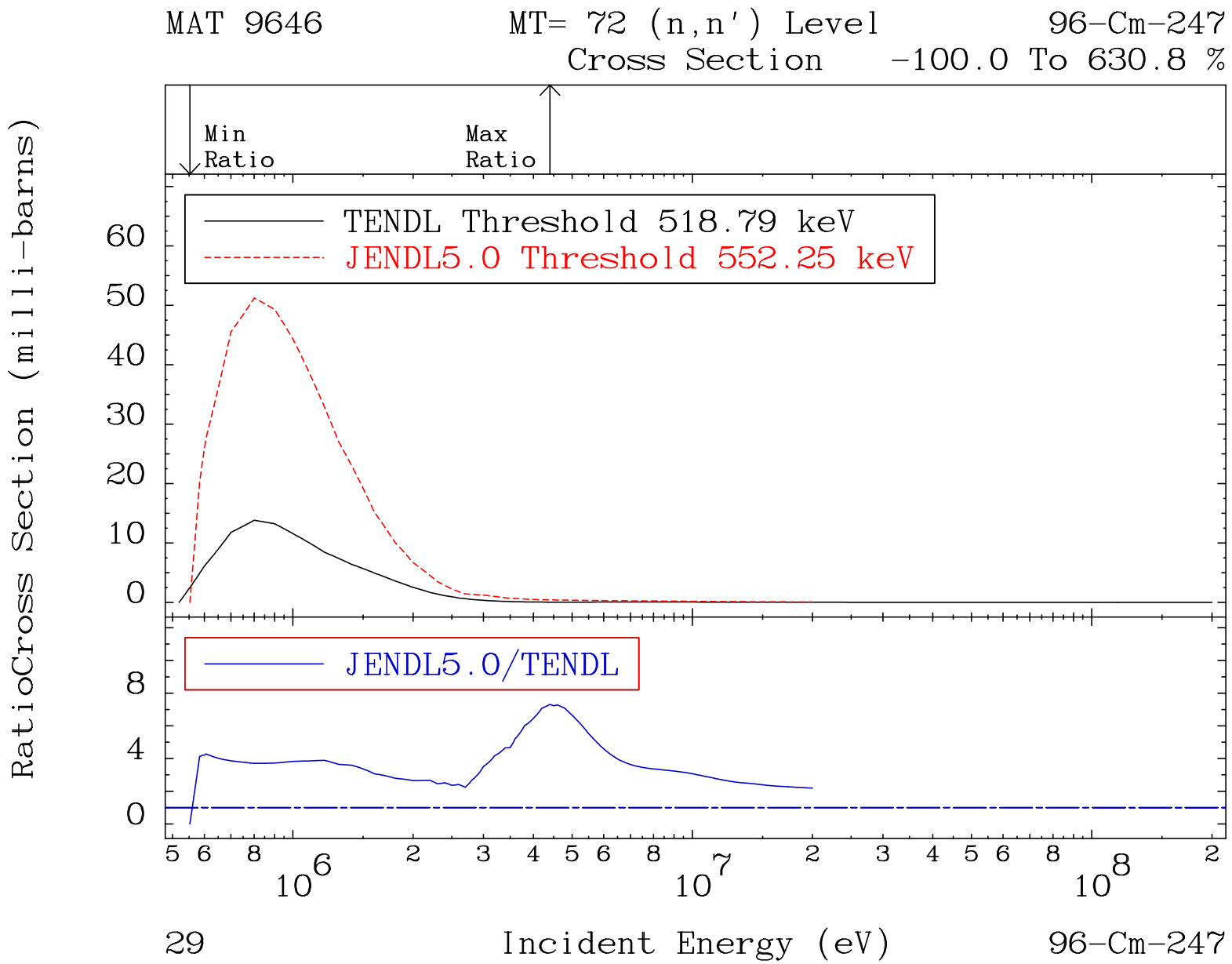

MAT 9646
MT= 67 (n,n') Level
96-Cm-247
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 422.72 keV
JENDL5.0 Threshold 440.79 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
120
60
0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
24
Incident Energy (eV)
96-Cm-247

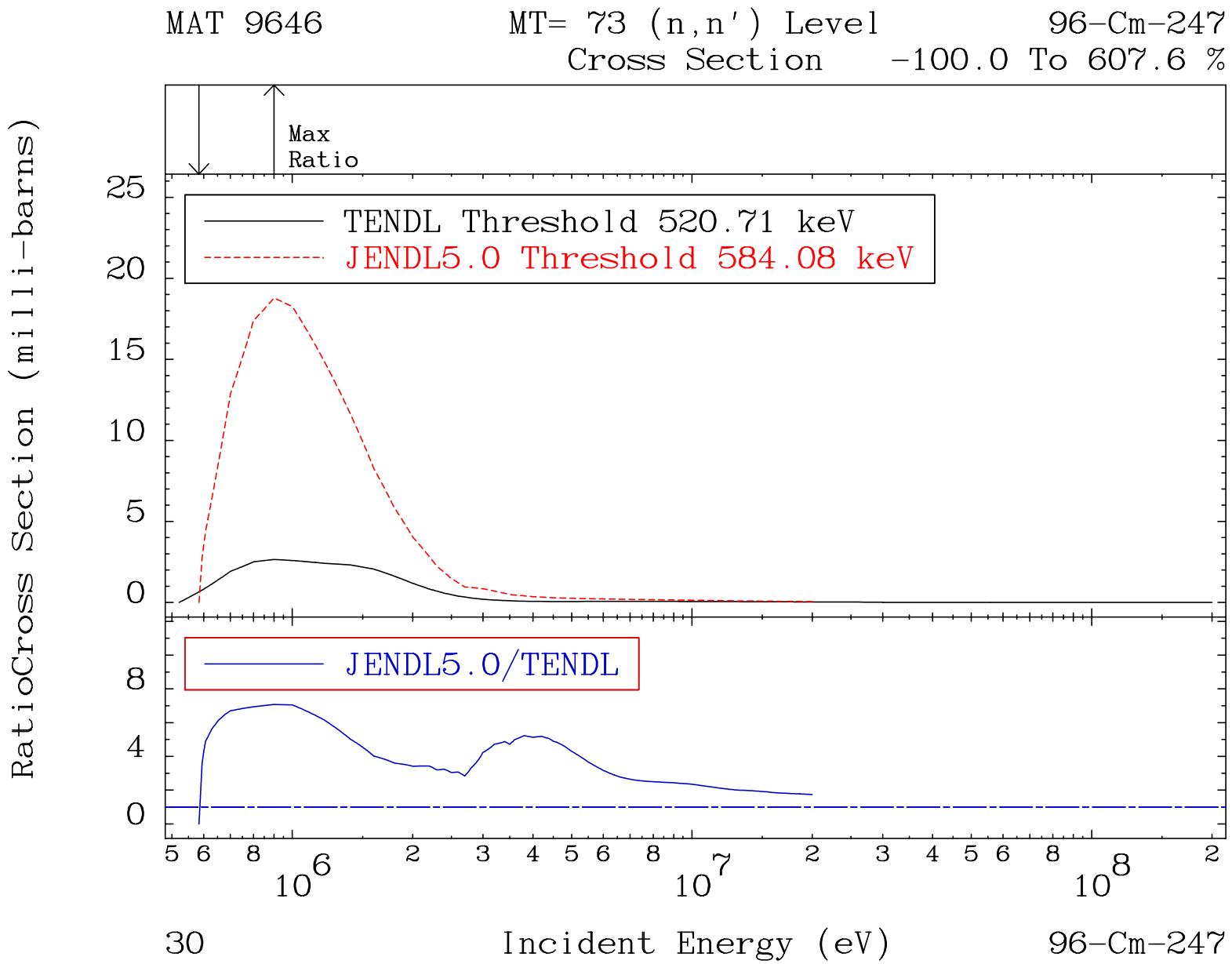

MAT 9646
MT= 68 (n,n') Level
96-Cm-247
Cross Section
-100.0 To 688.2 %
Max
Ratio
TENDL Threshold 434.77 keV
JENDL5.0 Threshold 449.83 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
12
8
4
0
5 6 8
10^6
2 3 4 5 6 8
10^7
2 3 4 5 6 8
10^8
2
25
Incident Energy (eV)
96-Cm-247

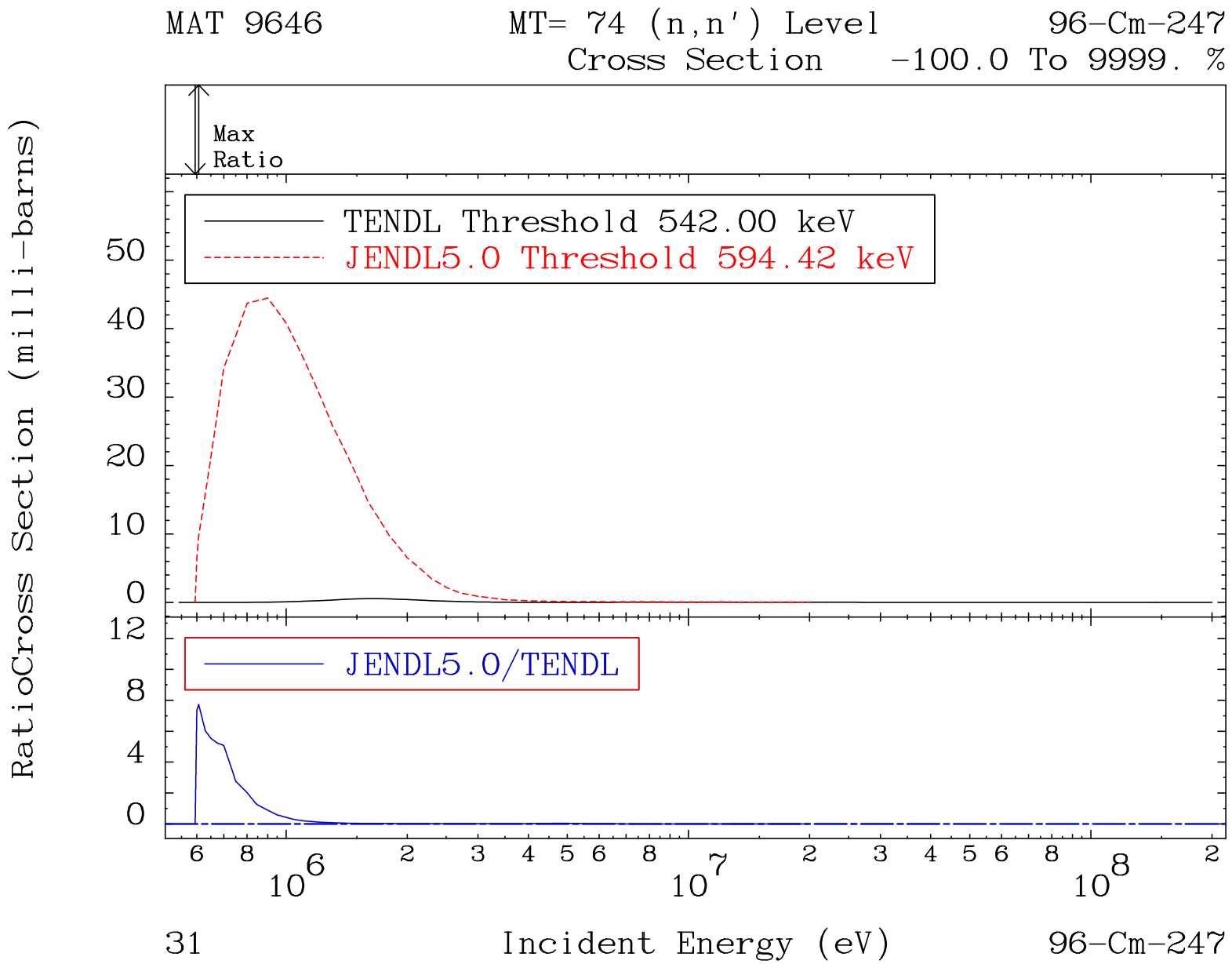

MAT 9646
MT= 69 (n,n') Level
Cross Section
96-Cm-247
-100.0 To -64.38%
Min Ratio
Max Ratio
TENDL Threshold 440.79 keV
JENDL5.0 Threshold 508.07 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
26
96-Cm-247

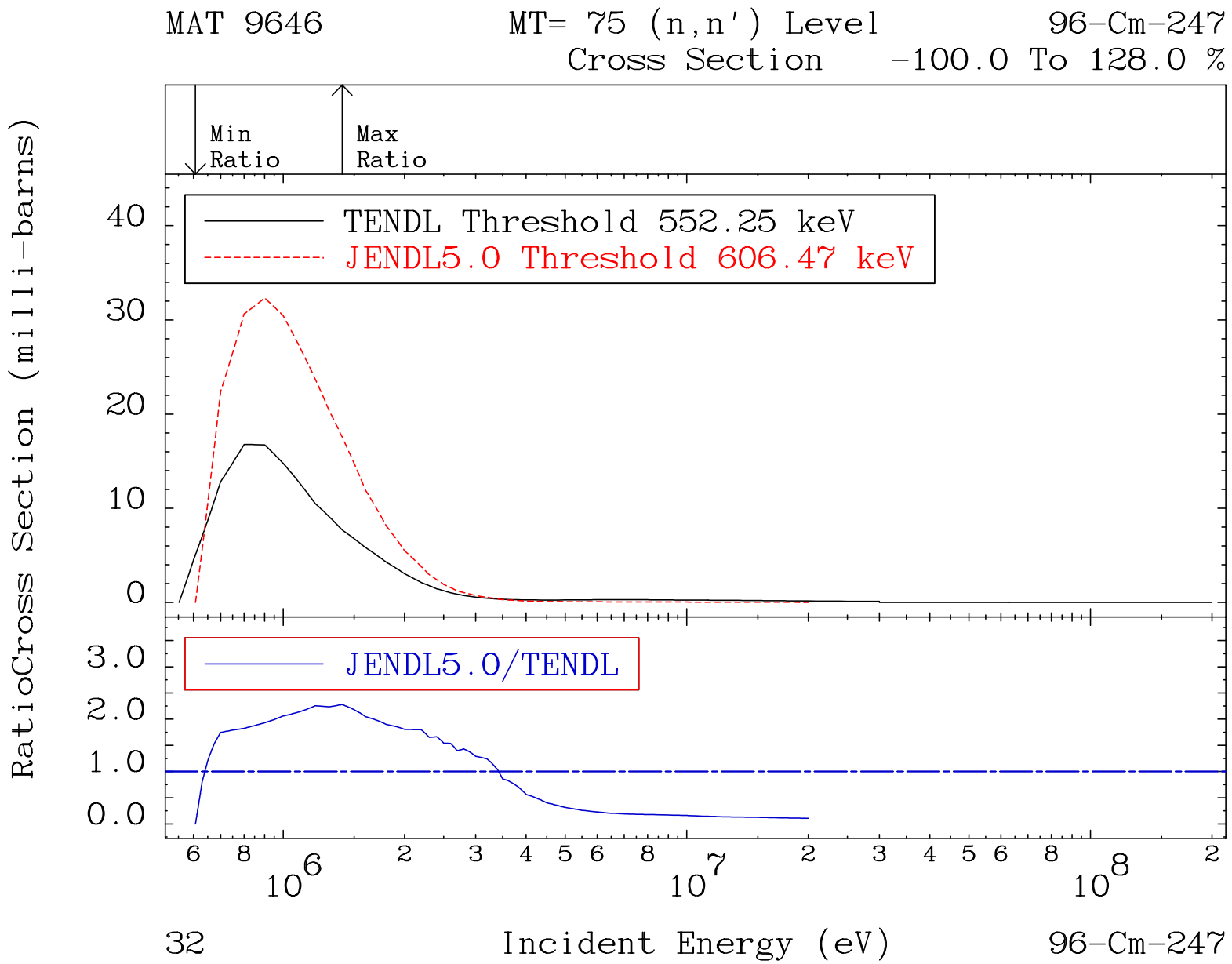

MAT 9646
MT= 70 (n,n') Level
96-Cm-247
Cross Section
-100.0 To 382.9 %
Max
Ratio
TENDL Threshold 449.83 keV
JENDL5.0 Threshold 518.81 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
4
0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
27
Incident Energy (eV)
96-Cm-247

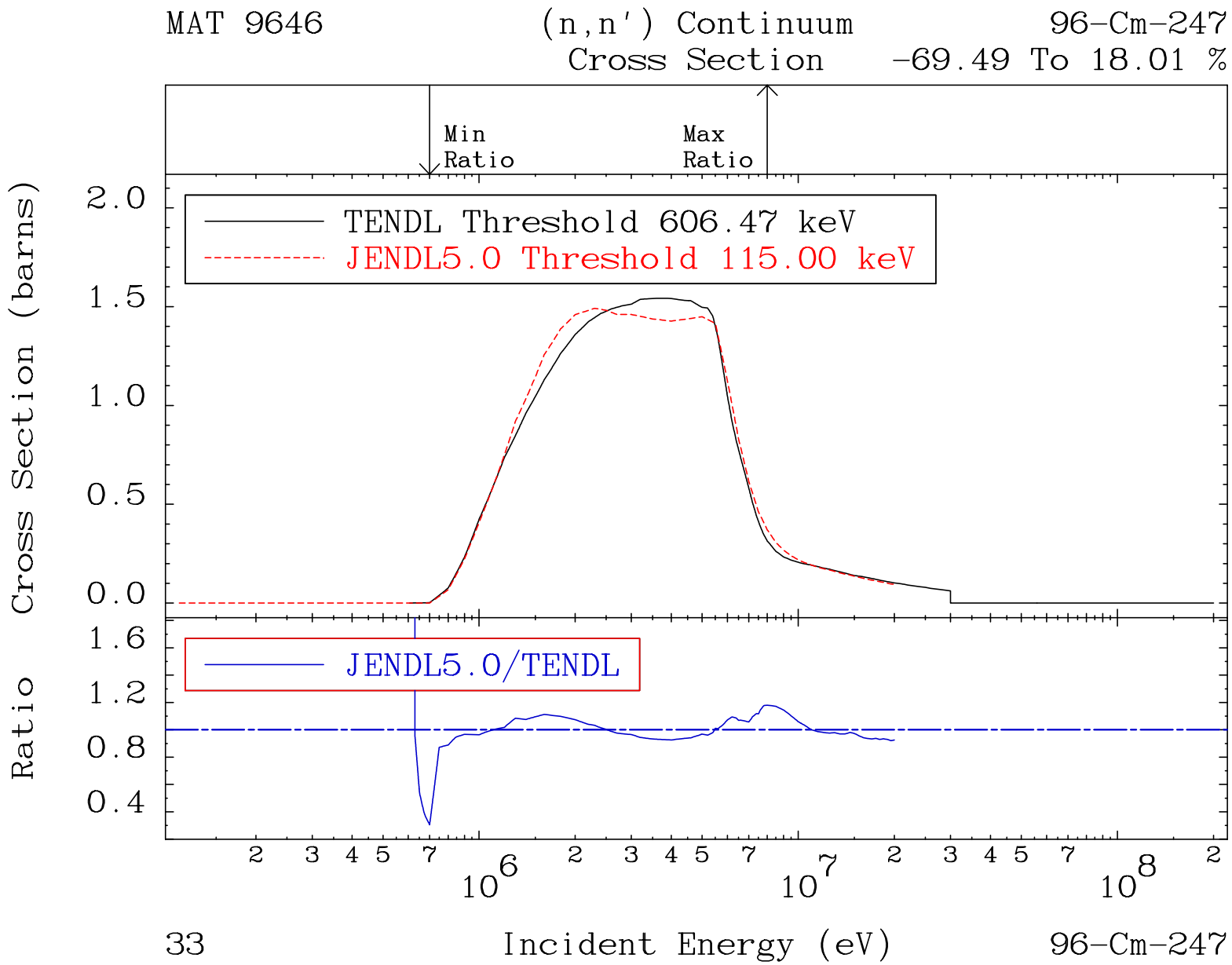

MAT 9646
MT= 71 (n,n') Level
96-Cm-247
Cross Section -100.0 To 1282. %
Max
Ratio
TENDL Threshold 508.07 keV
JENDL5.0 Threshold 520.70 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
28
96-Cm-247

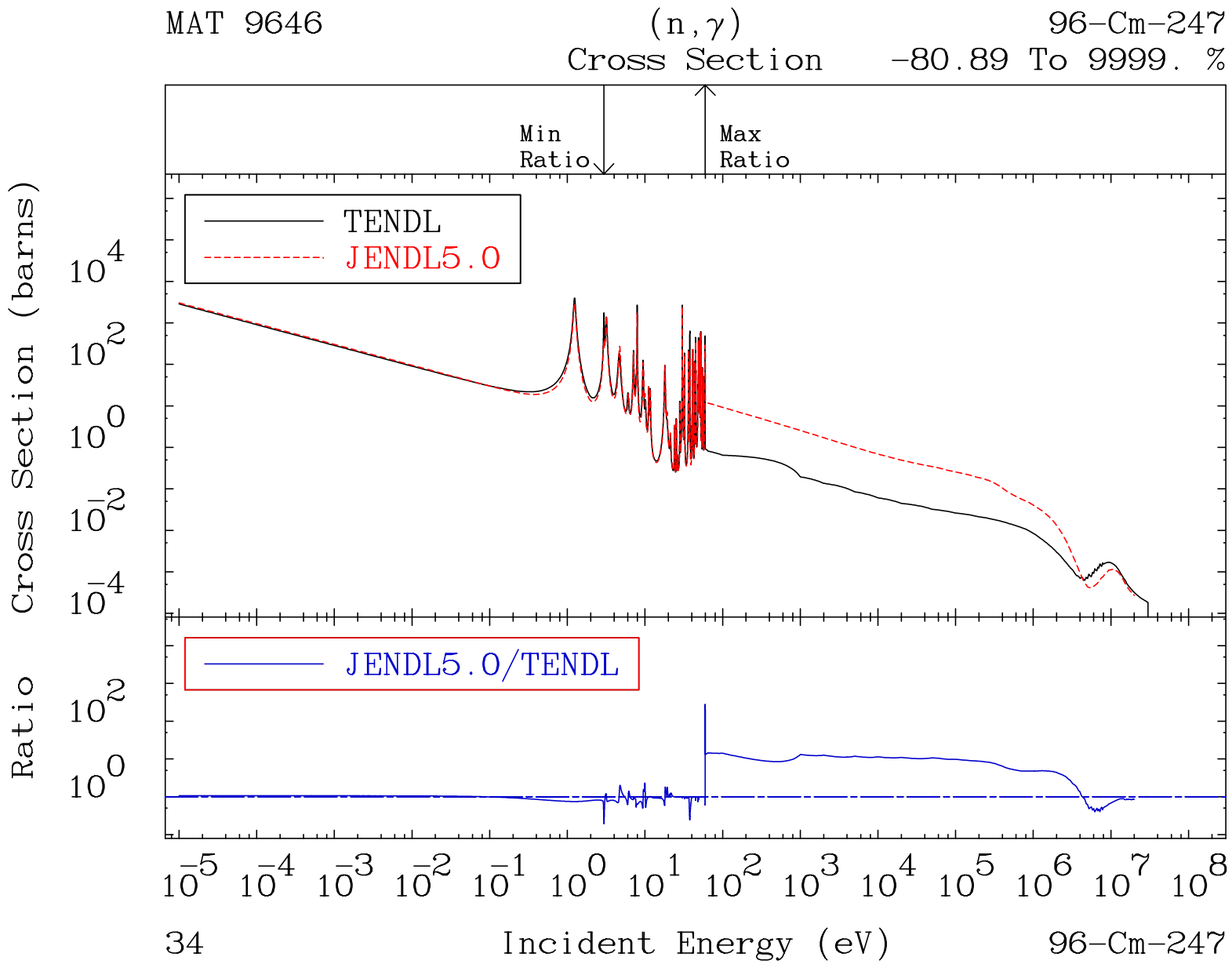

MAT 9646
MT= 72 (n,n') Level
96-Cm-247
Cross Section
-100.0 To 630.8 %
Min Ratio
Max Ratio
TENDL Threshold 518.79 keV
JENDL5.0 Threshold 552.25 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
29
96-Cm-247

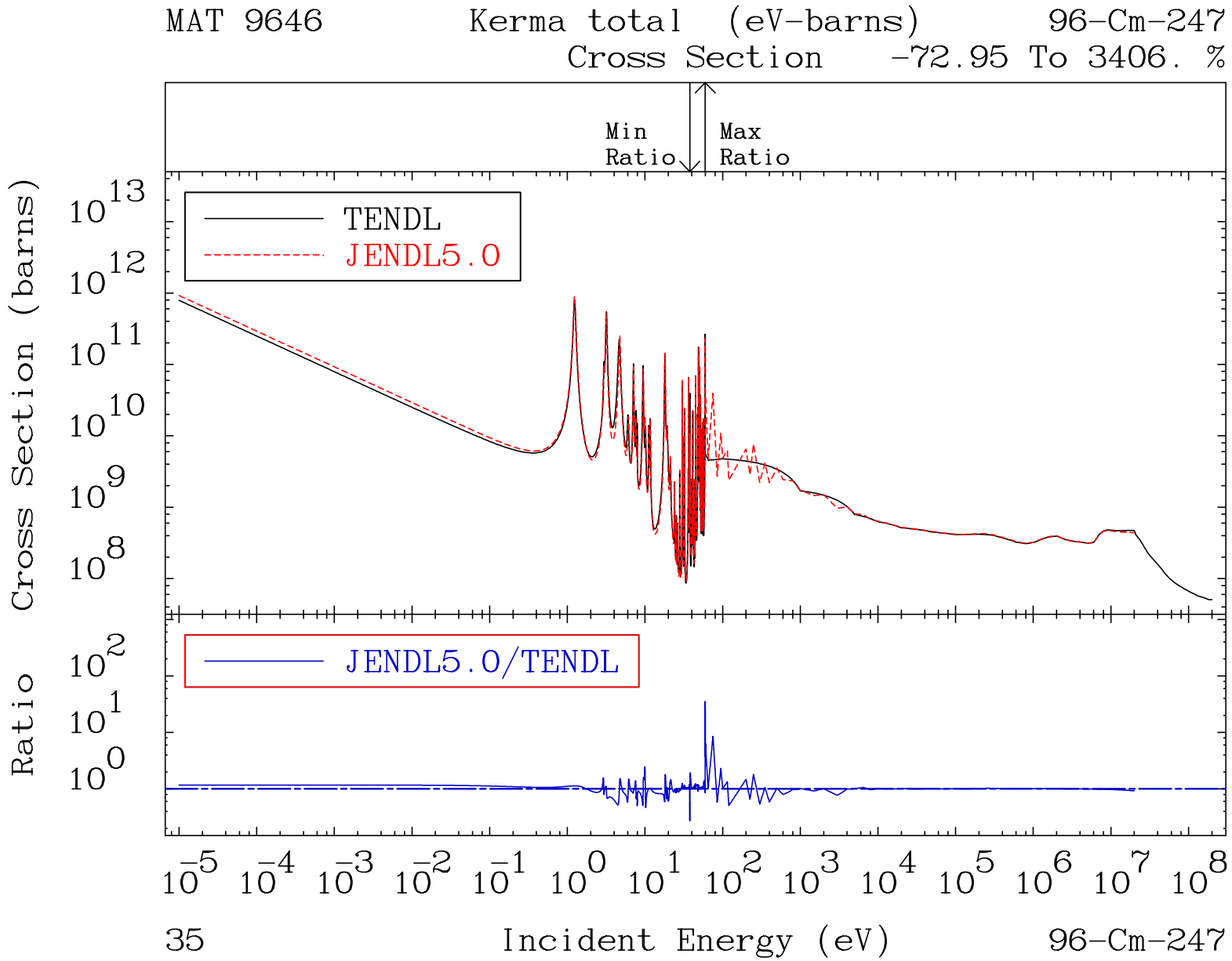

MAT 9646
MT= 73 (n,n') Level
96-Cm-247
Cross Section
-100.0 To 607.6 %
Max
Ratio
TENDL Threshold 520.71 keV
JENDL5.0 Threshold 584.08 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
30
96-Cm-247

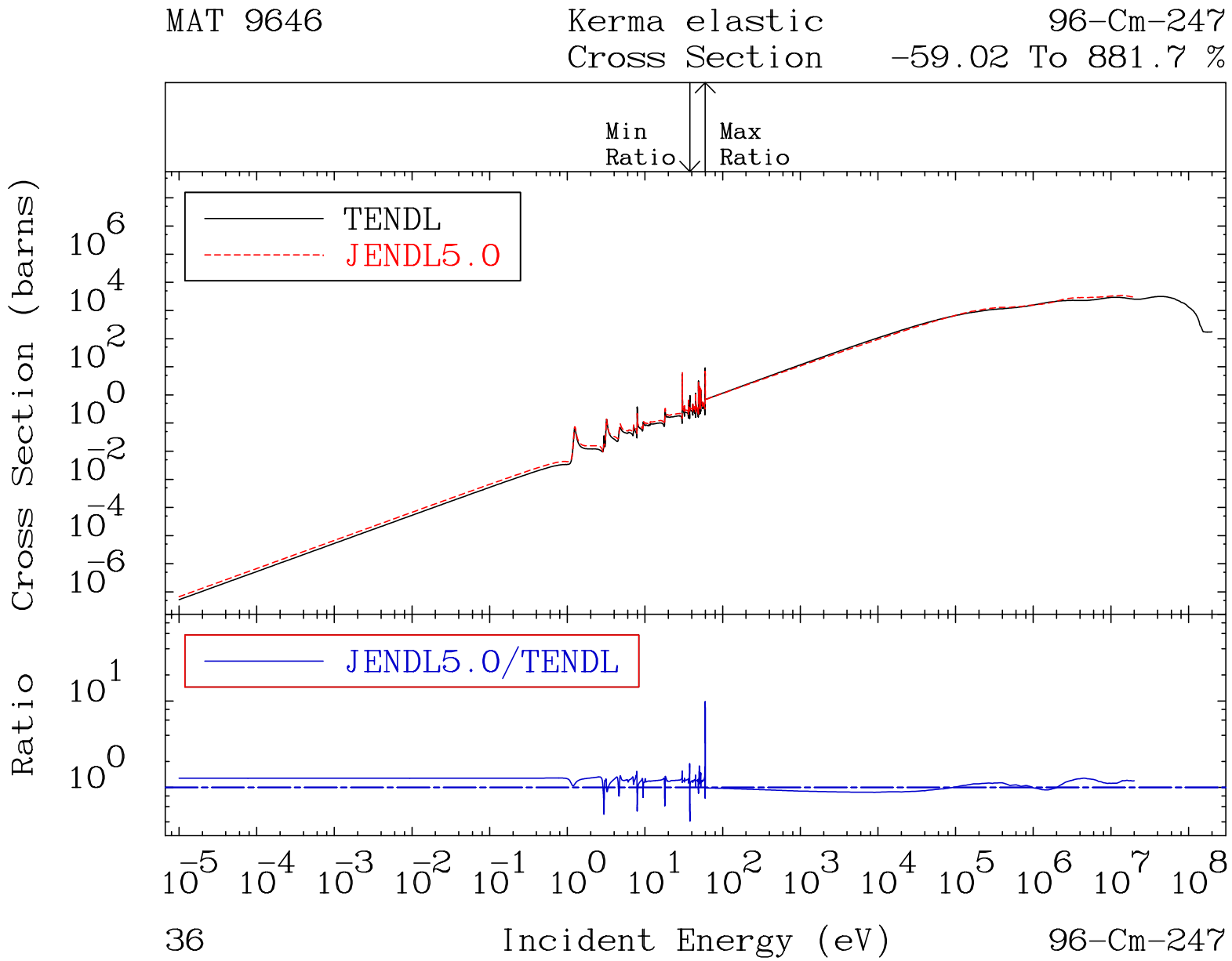

MAT 9646
MT= 74 (n,n') Level
96-Cm-247
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 542.00 keV
JENDL5.0 Threshold 594.42 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
12
8
4
0
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
31
Incident Energy (eV)
96-Cm-247

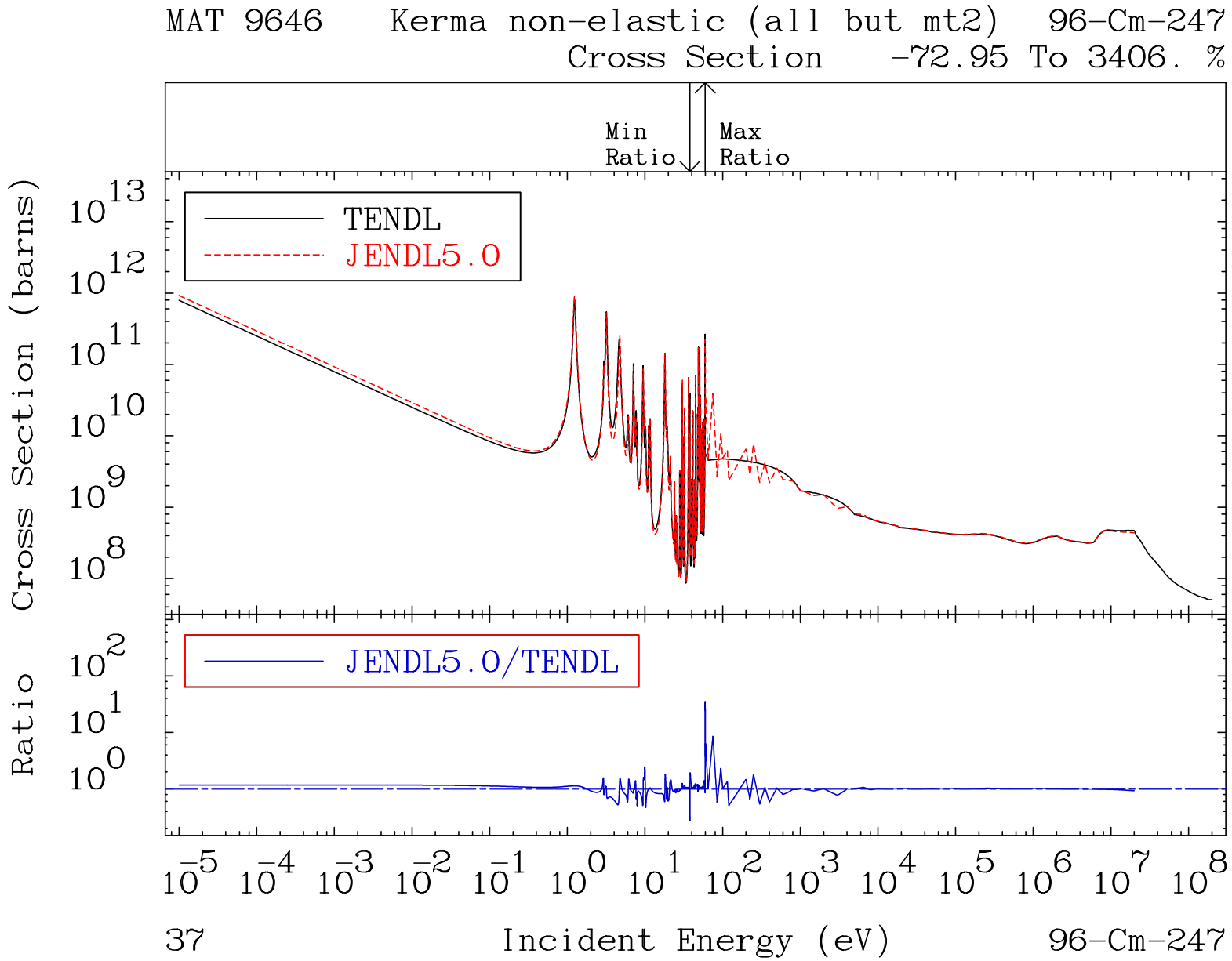

MAT 9646
MT= 75 (n,n') Level
96-Cm-247
Cross Section
-100.0 To 128.0 %
Min Ratio
Max Ratio
TENDL Threshold 552.25 keV
JENDL5.0 Threshold 606.47 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
3.0
2.0
1.0
0.0
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
32
Incident Energy (eV)
96-Cm-247

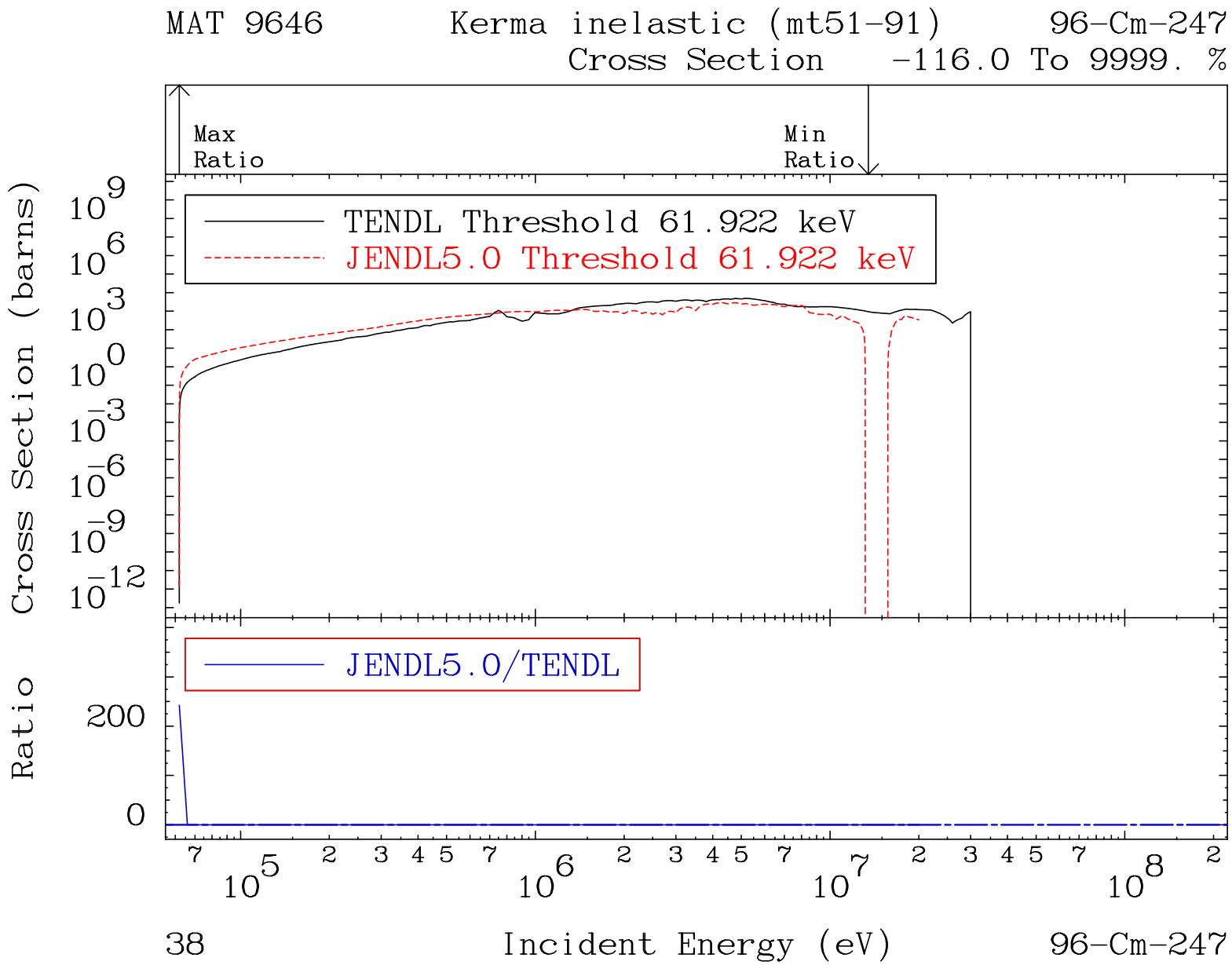

MAT 9646
(n,n') Continuum
Cross Section
96-Cm-247
-69.49 To 18.01 %
Min Ratio
Max Ratio
TENDL Threshold 606.47 keV
JENDL5.0 Threshold 115.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.6
1.2
0.8
0.4
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
33
Incident Energy (eV)
96-Cm-247

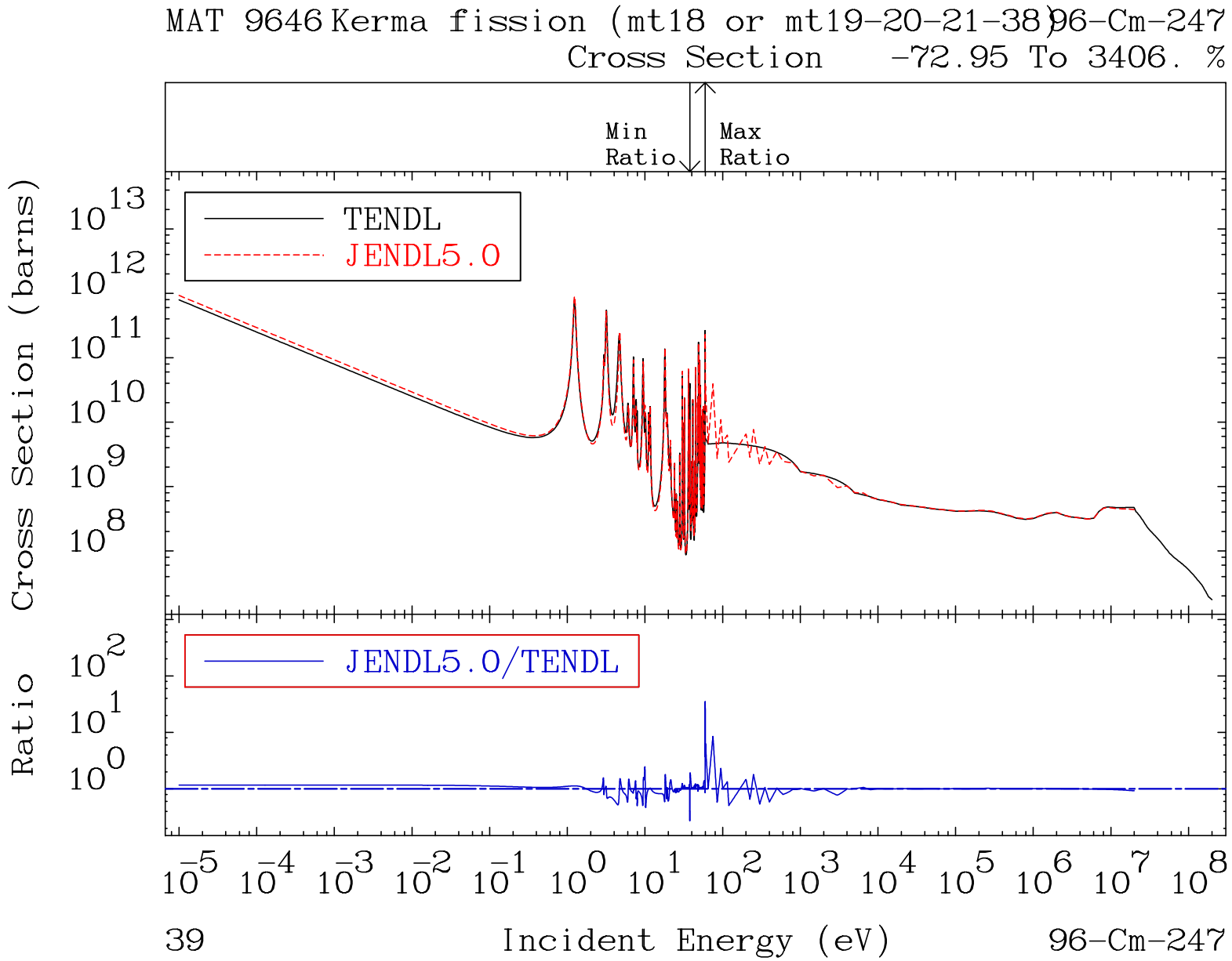

MAT 9646
(n,γ)
Cross Section
96-Cm-247
-80.89 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
34
96-Cm-247

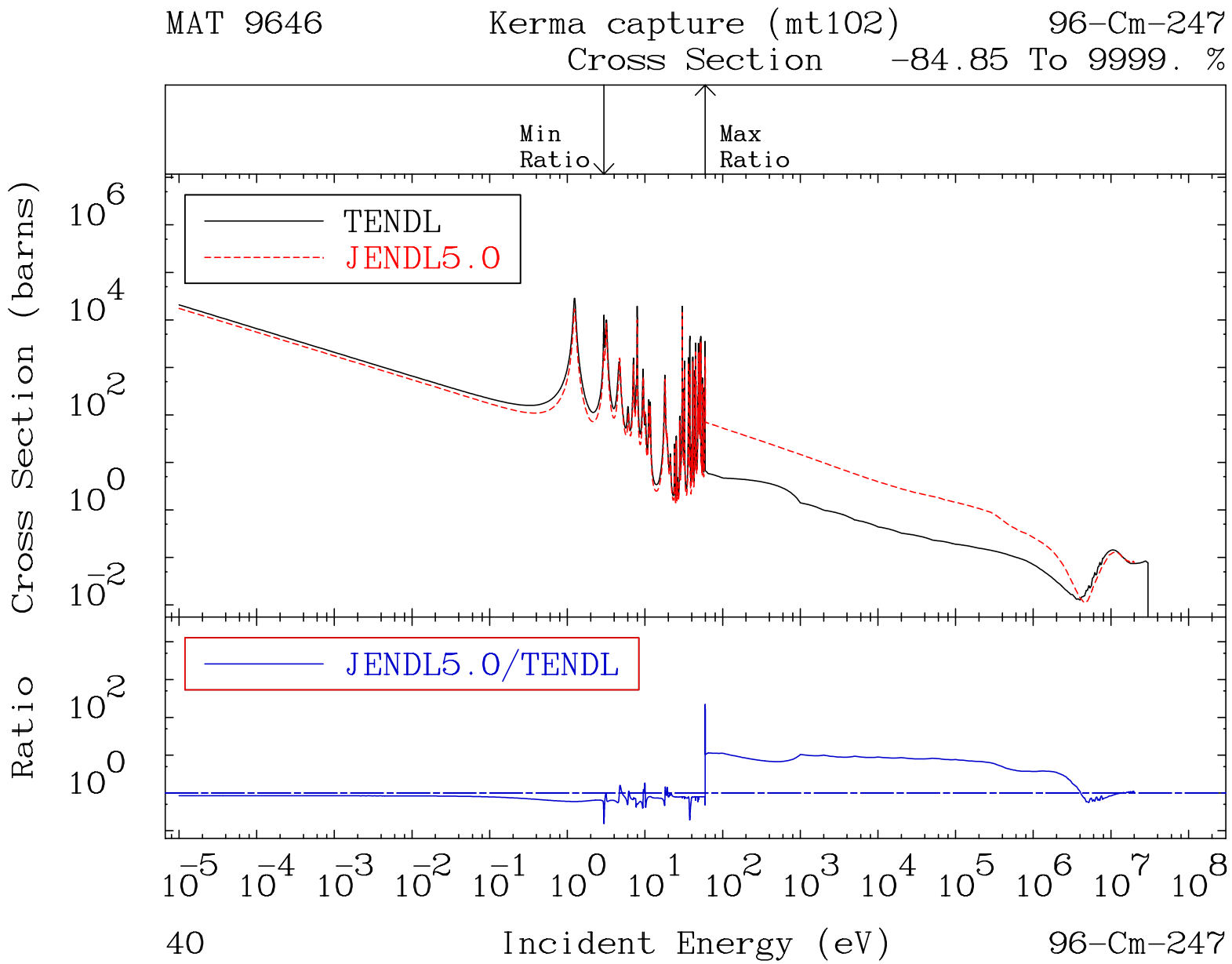

MAT 9646
Kerma total (eV-barns)
96-Cm-247
Cross Section -72.95 To 3406. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
35
96-Cm-247

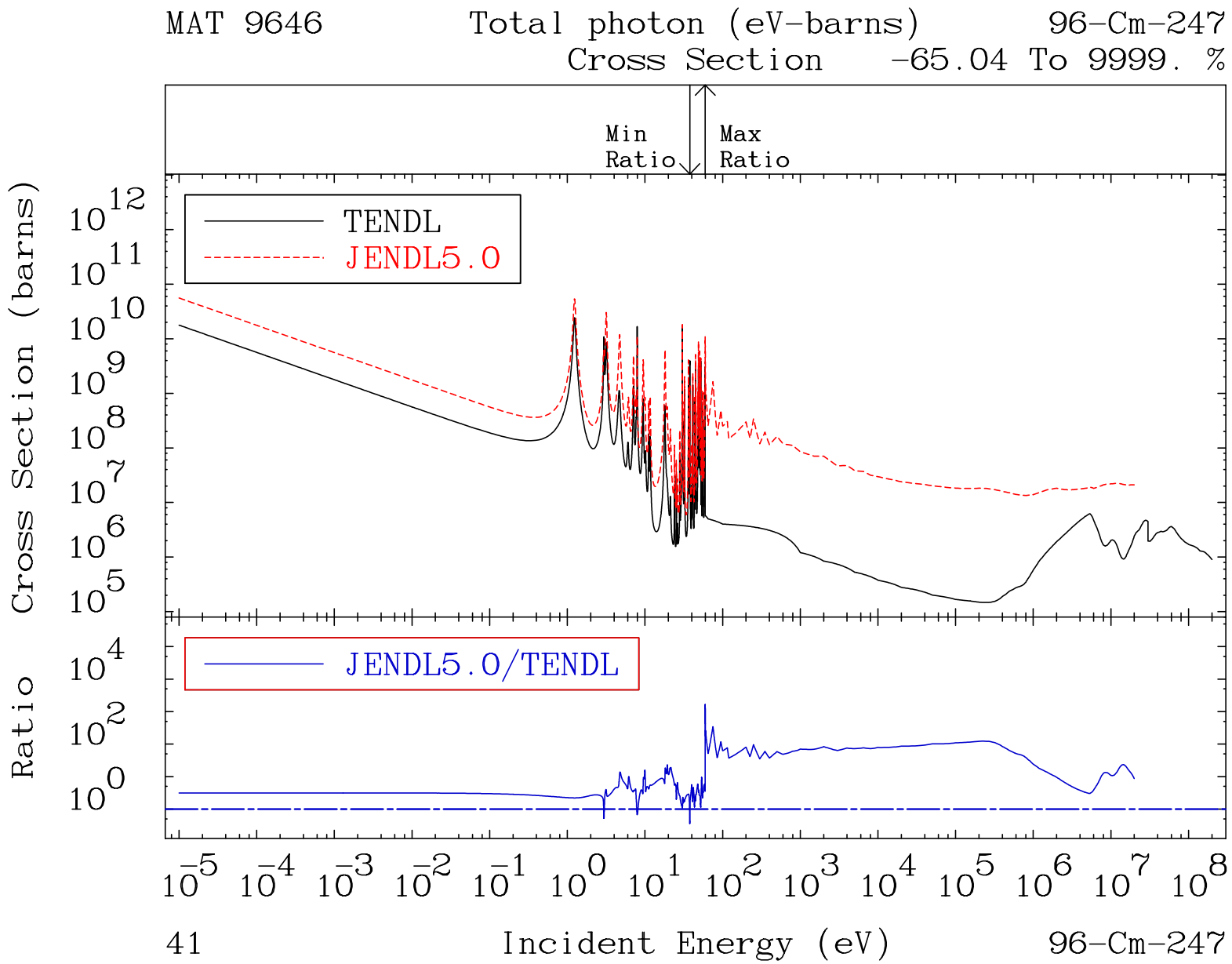

MAT 9646
Kerma elastic
Cross Section
96-Cm-247
-59.02 To 881.7 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
36
96-Cm-247

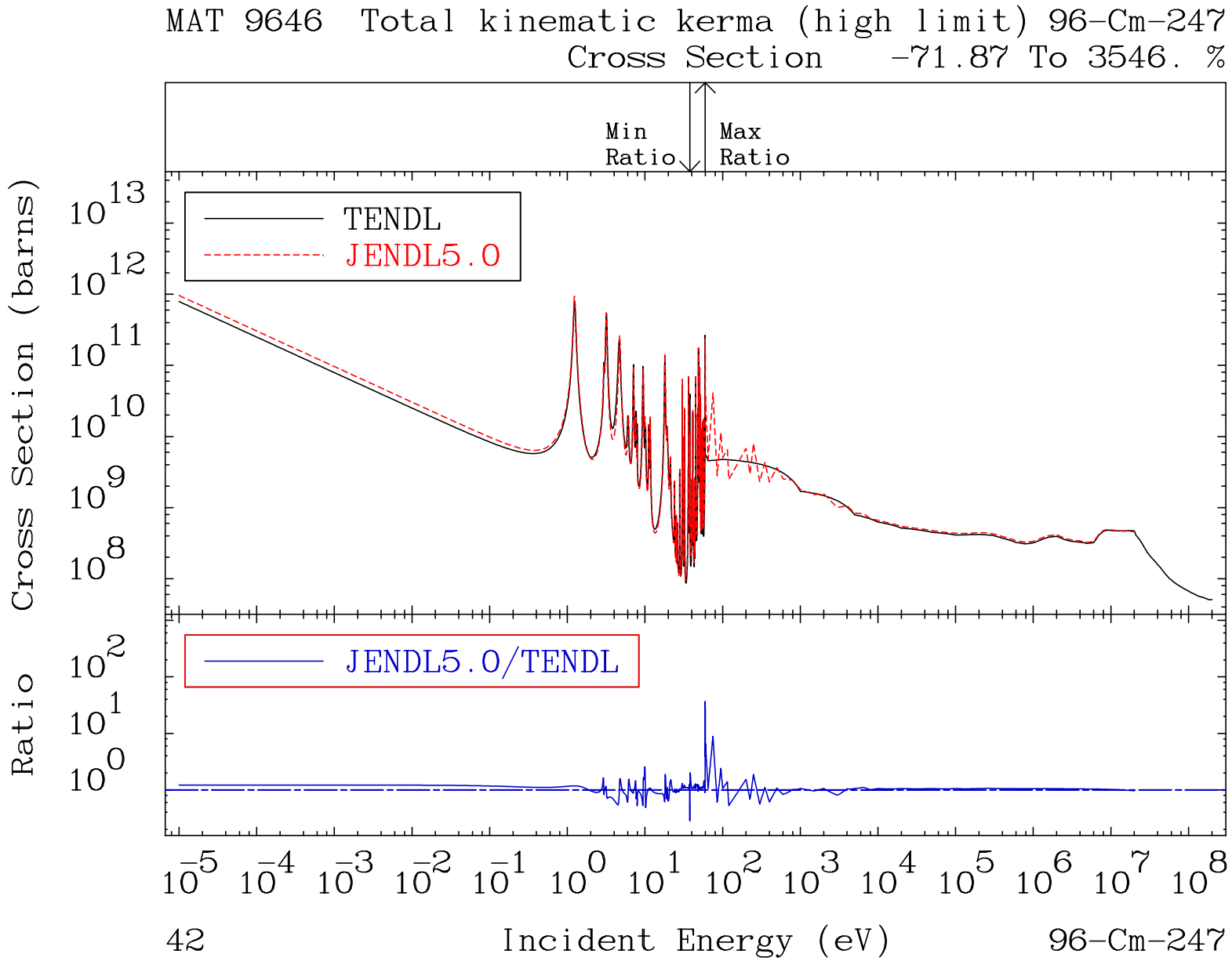

MAT 9646 Kerma non-elastic (all but mt2) 96-Cm-247
Cross Section -72.95 To 3406. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
37
96-Cm-247

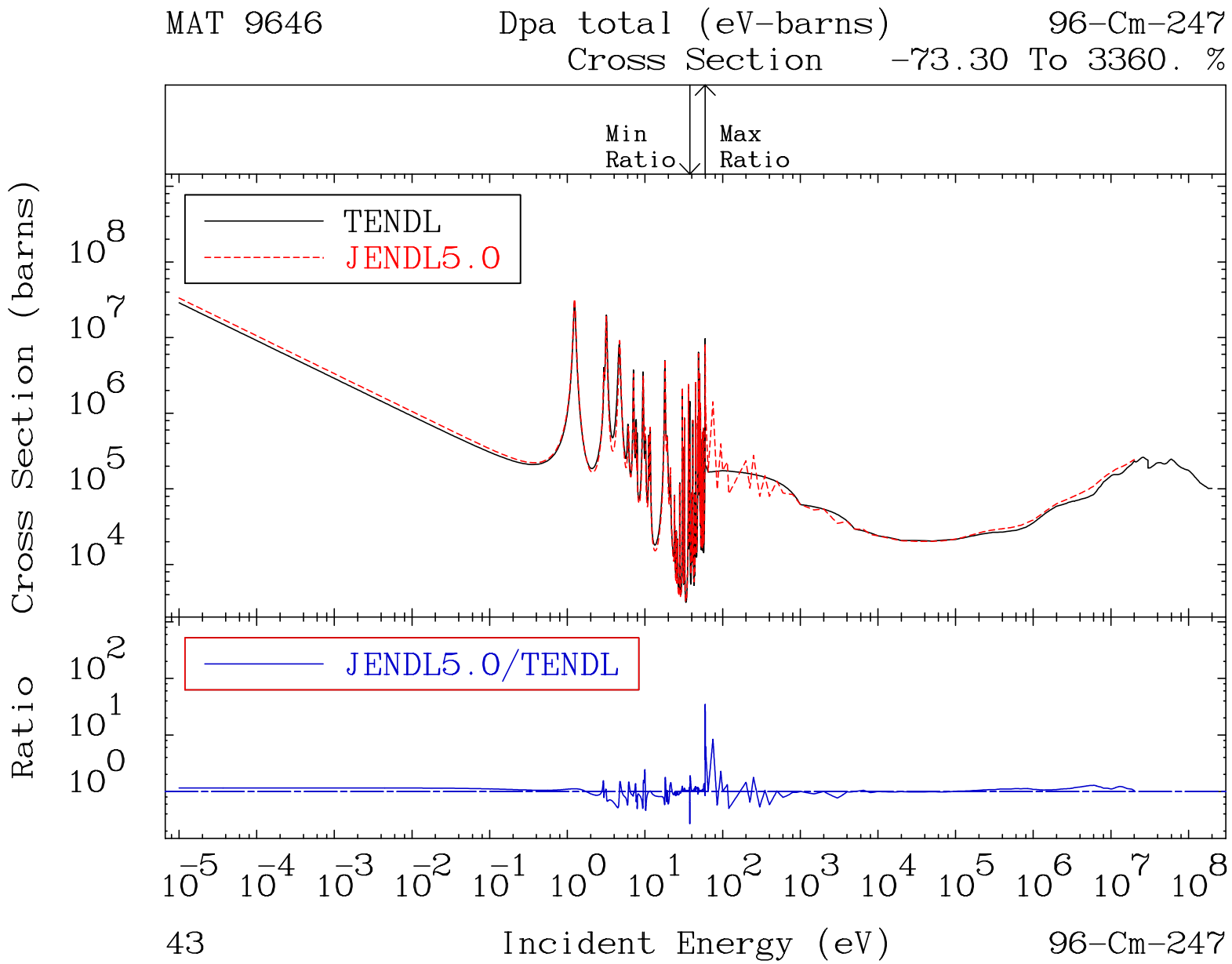

MAT 9646
Kerma inelastic (mt51-91)
96-Cm-247
Cross Section -116.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 61.922 keV
JENDL5.0 Threshold 61.922 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
38
96-Cm-247

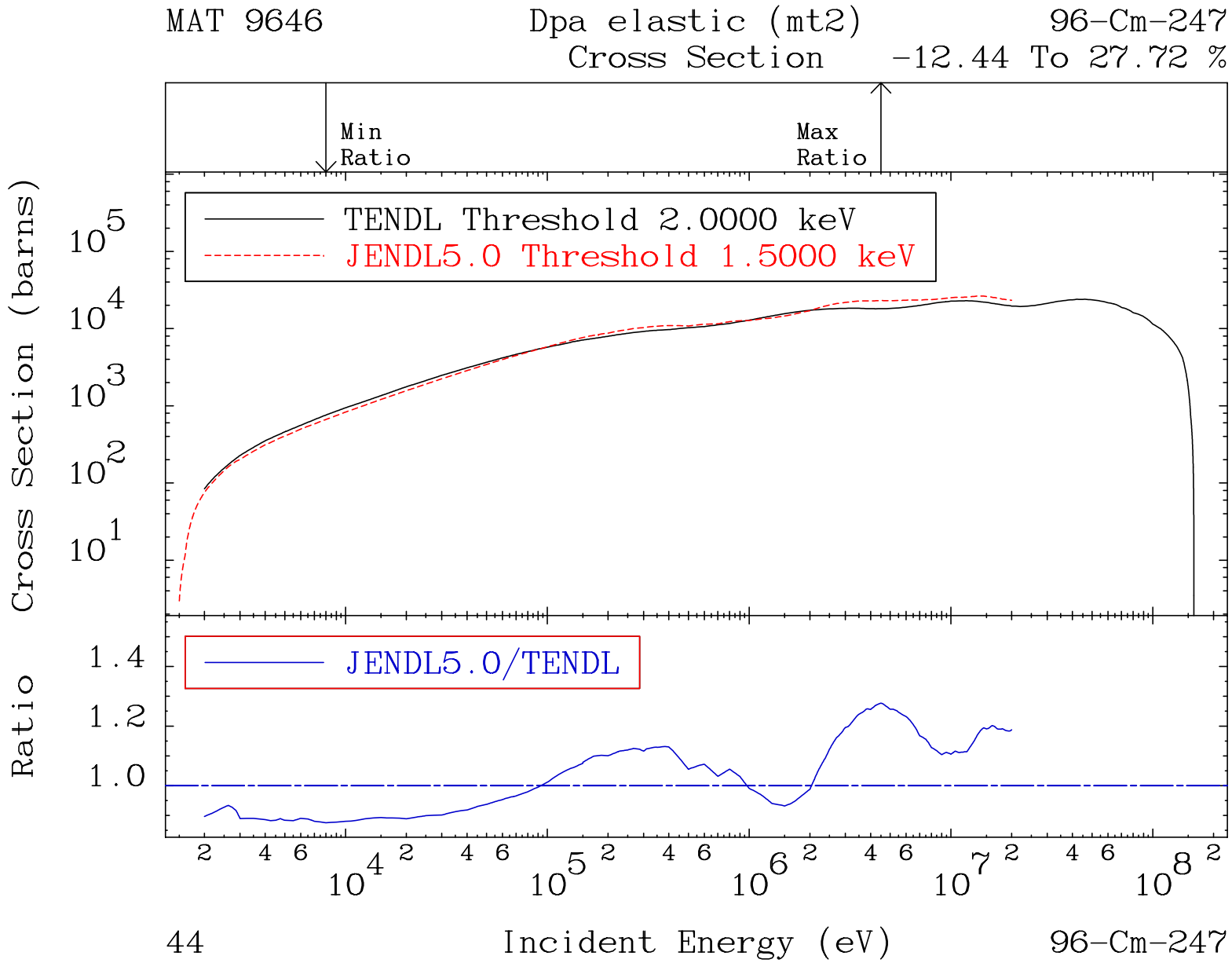

MAT 9646 Kerma fission (mt18 or mt19-20-21-38) 96-Cm-247
Cross Section -72.95 To 3406. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
39
96-Cm-247

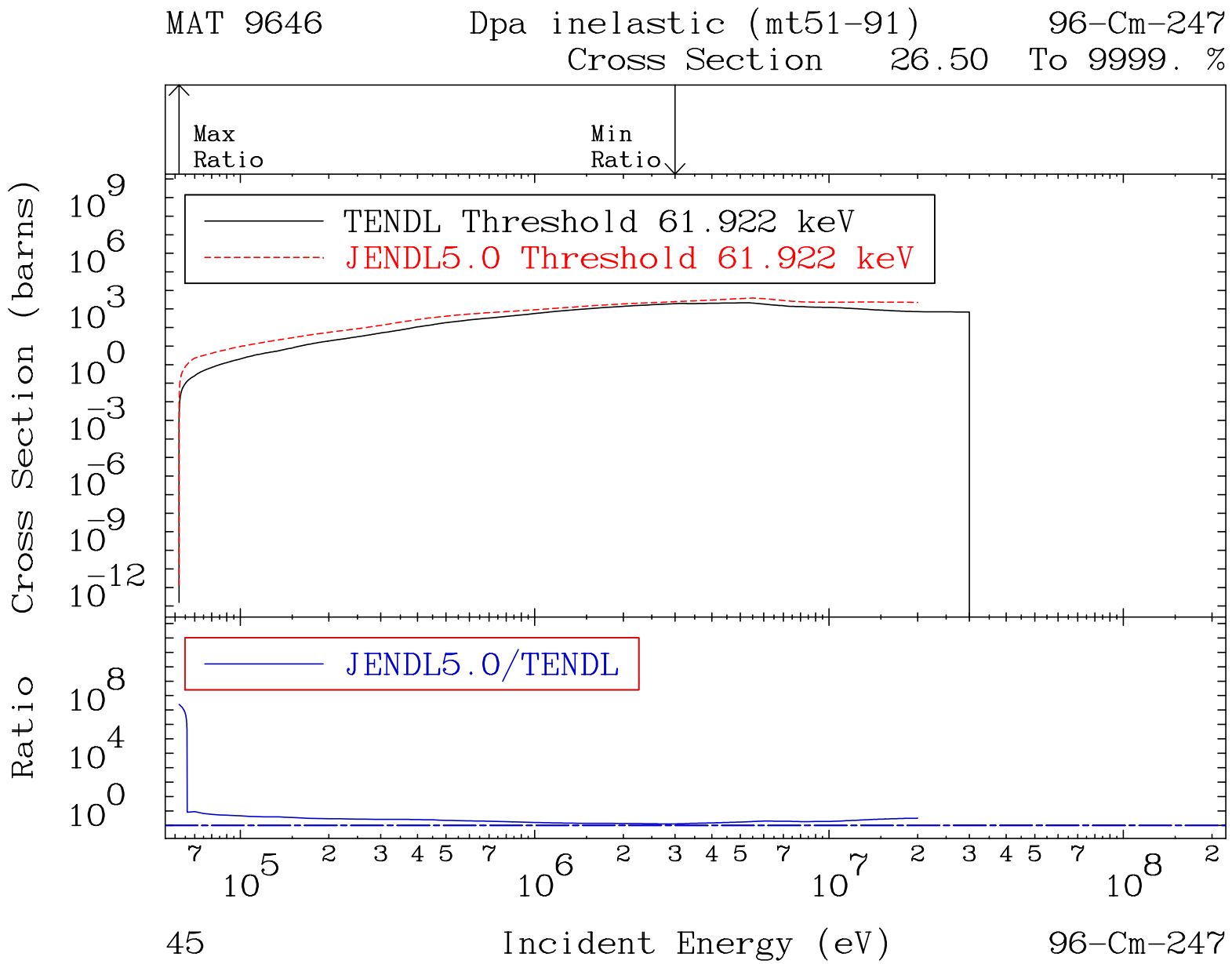

MAT 9646
Kerma capture (mt102)
96-Cm-247
Cross Section -84.85 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
40
96-Cm-247

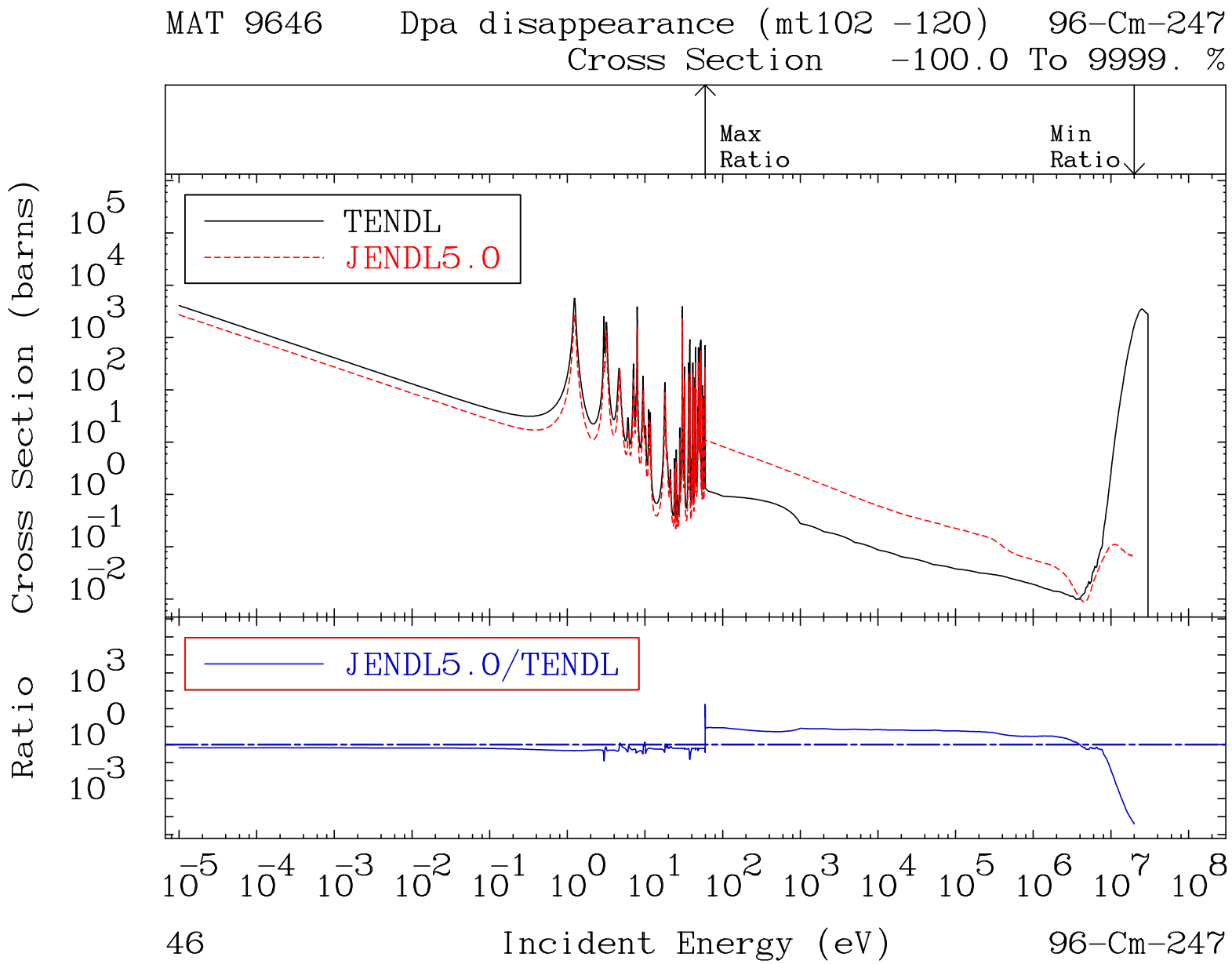

MAT 9646
Total photon (eV-barns)
96-Cm-247
Cross Section -65.04 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
41
96-Cm-247

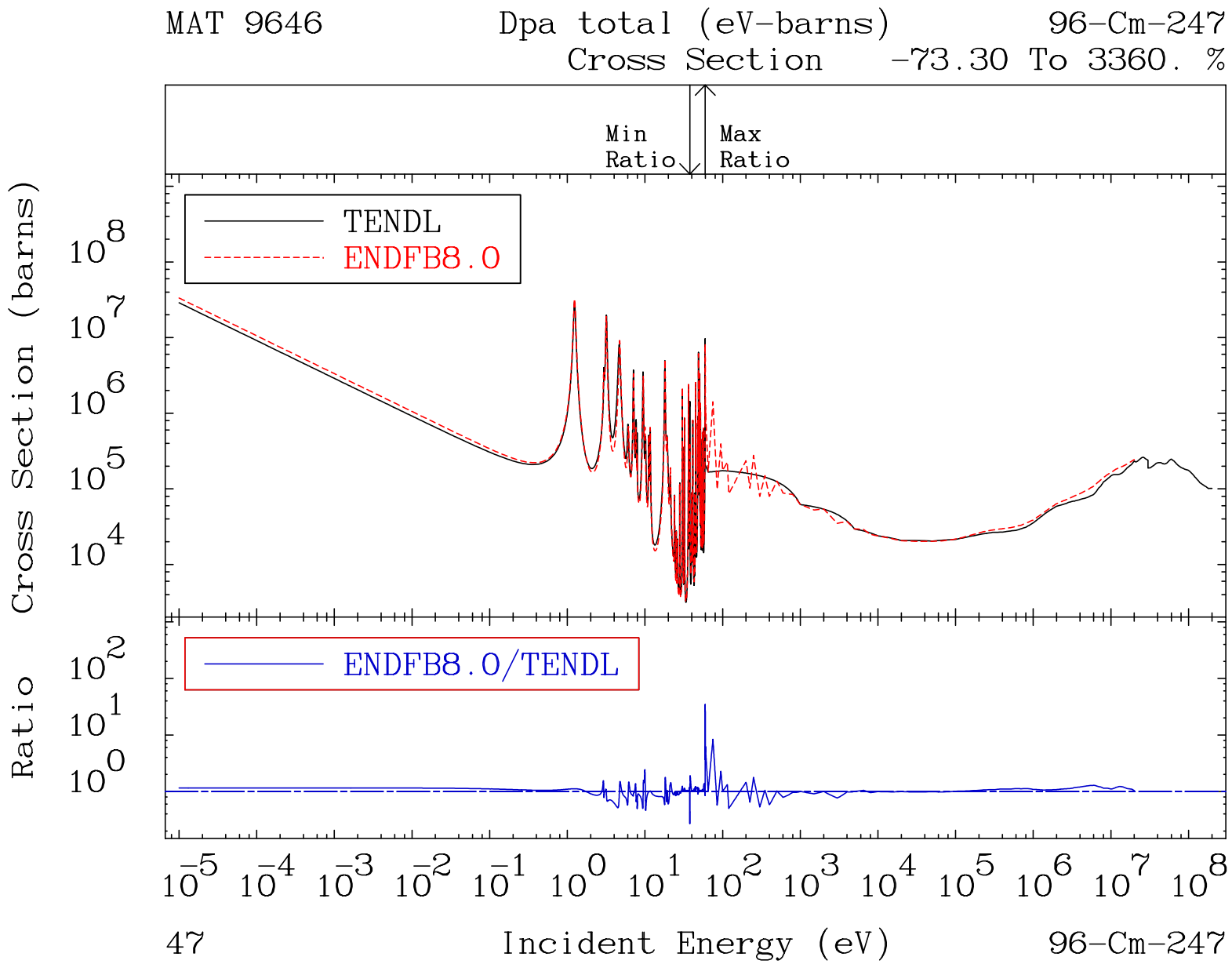

MAT 9646 Total kinematic kerma (high limit) 96-Cm-247
Cross Section -71.87 To 3546. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
42
96-Cm-247

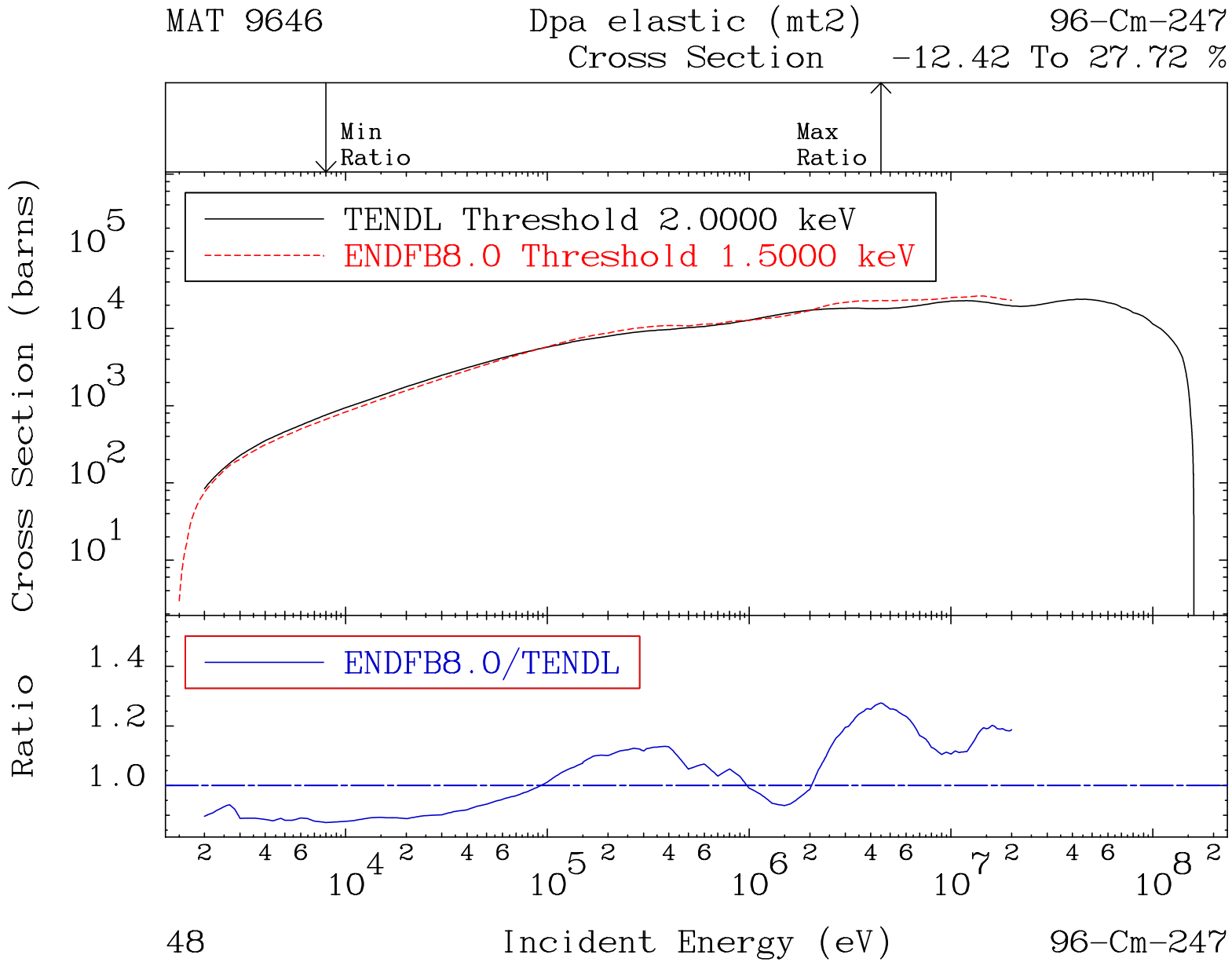

MAT 9646
Dpa total (eV-barns)
96-Cm-247
Cross Section -73.30 To 3360. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
43
96-Cm-247

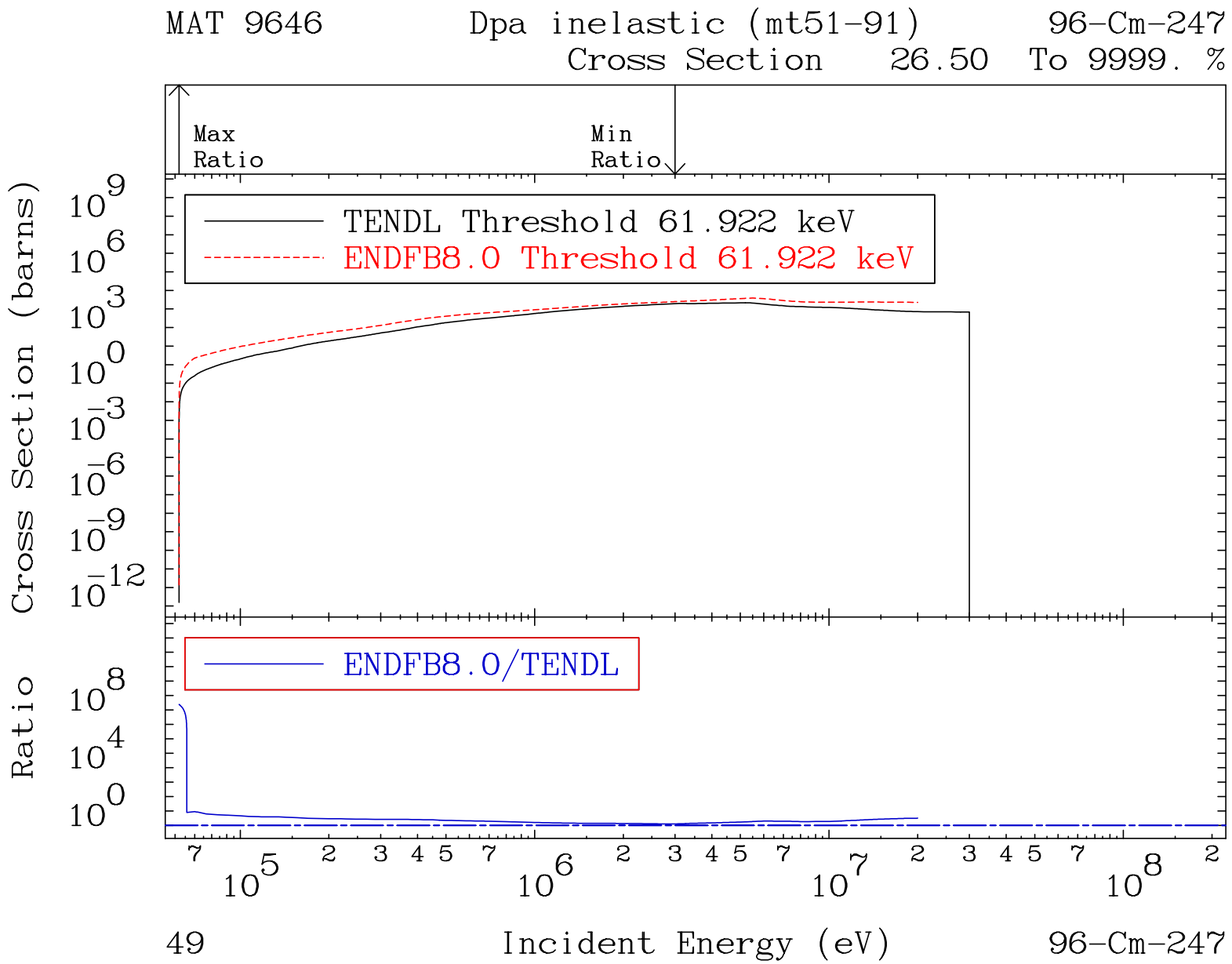

MAT 9646
Dpa elastic (mt2)
Cross Section
96-Cm-247
-12.44 To 27.72 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.0000 keV
JENDL5.0 Threshold 1.5000 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
44
96-Cm-247

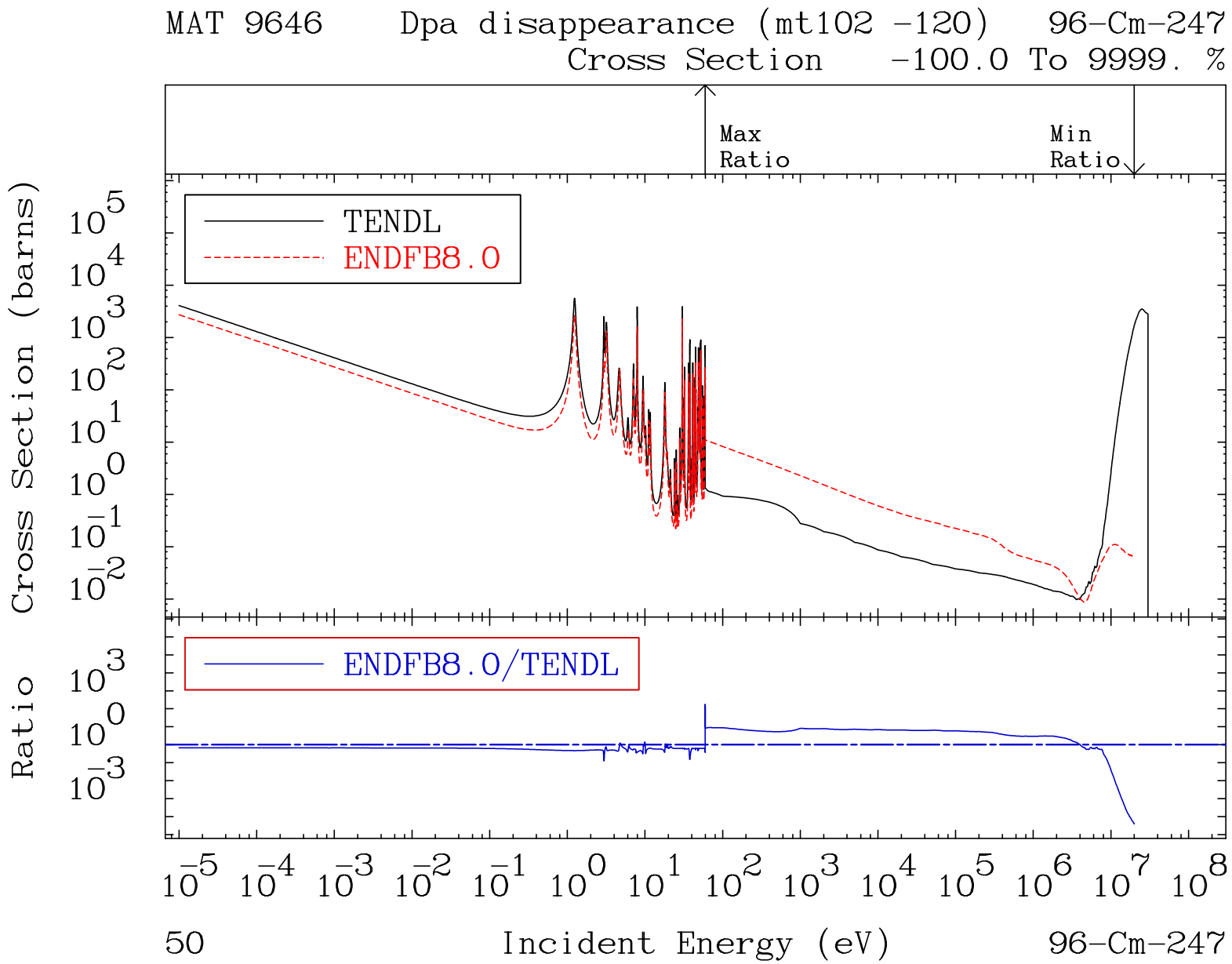

MAT 9646
Dpa inelastic (mt51-91)
96-Cm-247
Cross Section 26.50 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 61.922 keV
JENDL5.0 Threshold 61.922 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
45
96-Cm-247


MAT 9646 Dpa disappearance (mt102 -120) 96-Cm-247
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
46
96-Cm-247


MAT 9646
Dpa total (eV-barns)
96-Cm-247
Cross Section
-73.30 To 3360. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
47
96-Cm-247


MAT 9646
Dpa elastic (mt2)
Cross Section
96-Cm-247
-12.42 To 27.72 %
Min Ratio
Max Ratio
TENDL Threshold 2.0000 keV
ENDFB8.0 Threshold 1.5000 keV
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
48
96-Cm-247


MAT 9646
Dpa inelastic (mt51-91)
96-Cm-247
Cross Section 26.50 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 61.922 keV
ENDFB8.0 Threshold 61.922 keV
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
49
96-Cm-247


MAT 9646 Dpa disappearance (mt102 -120) 96-Cm-247
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
50
96-Cm-247