

Program Complot  
(Version 2018-1)

by

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(Present Contact Information)

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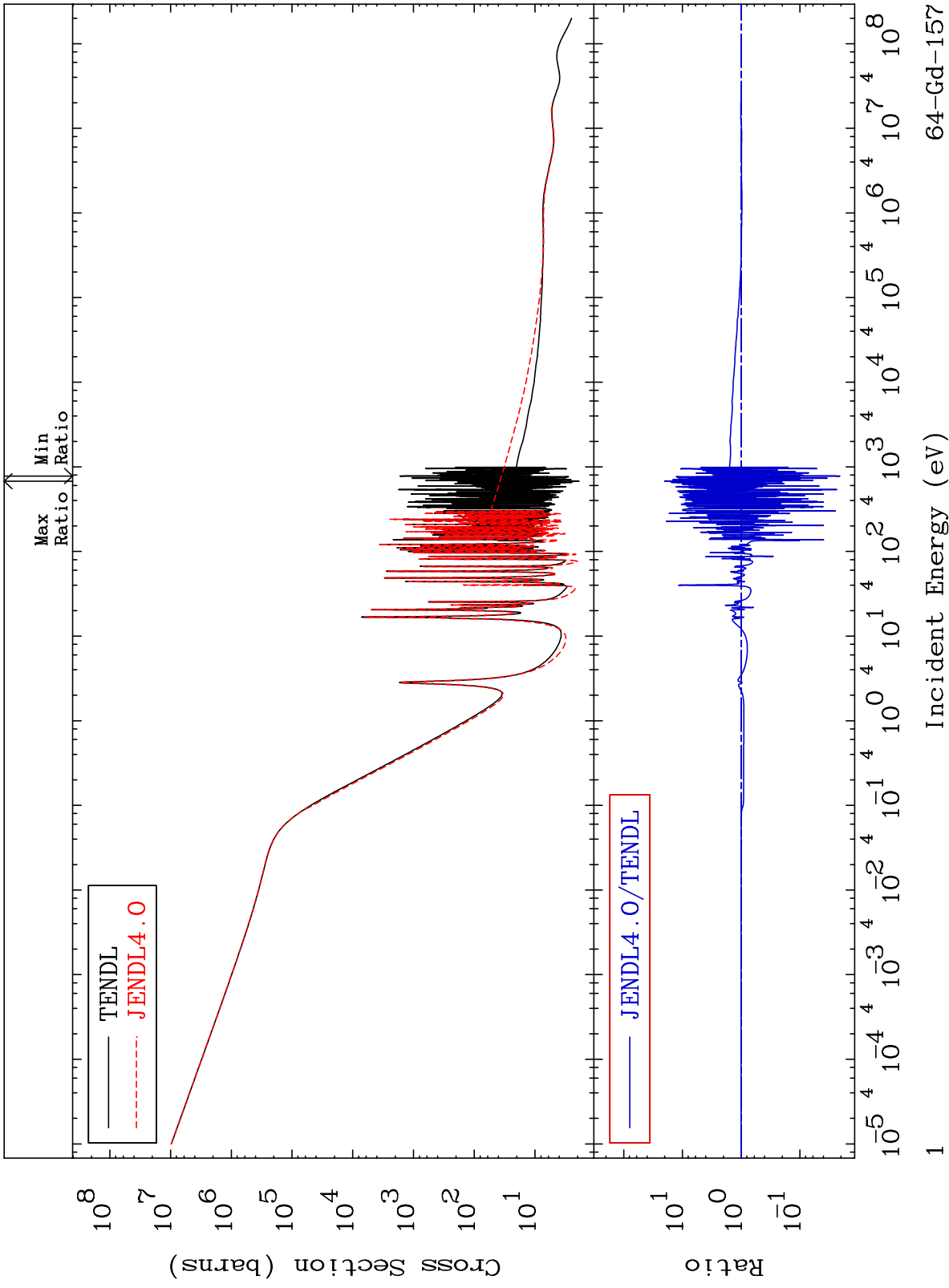
U.S.A.

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Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6440      Total Cross Section      64-Gd-157  
-97.90 To 1902. %



64-Gd-157

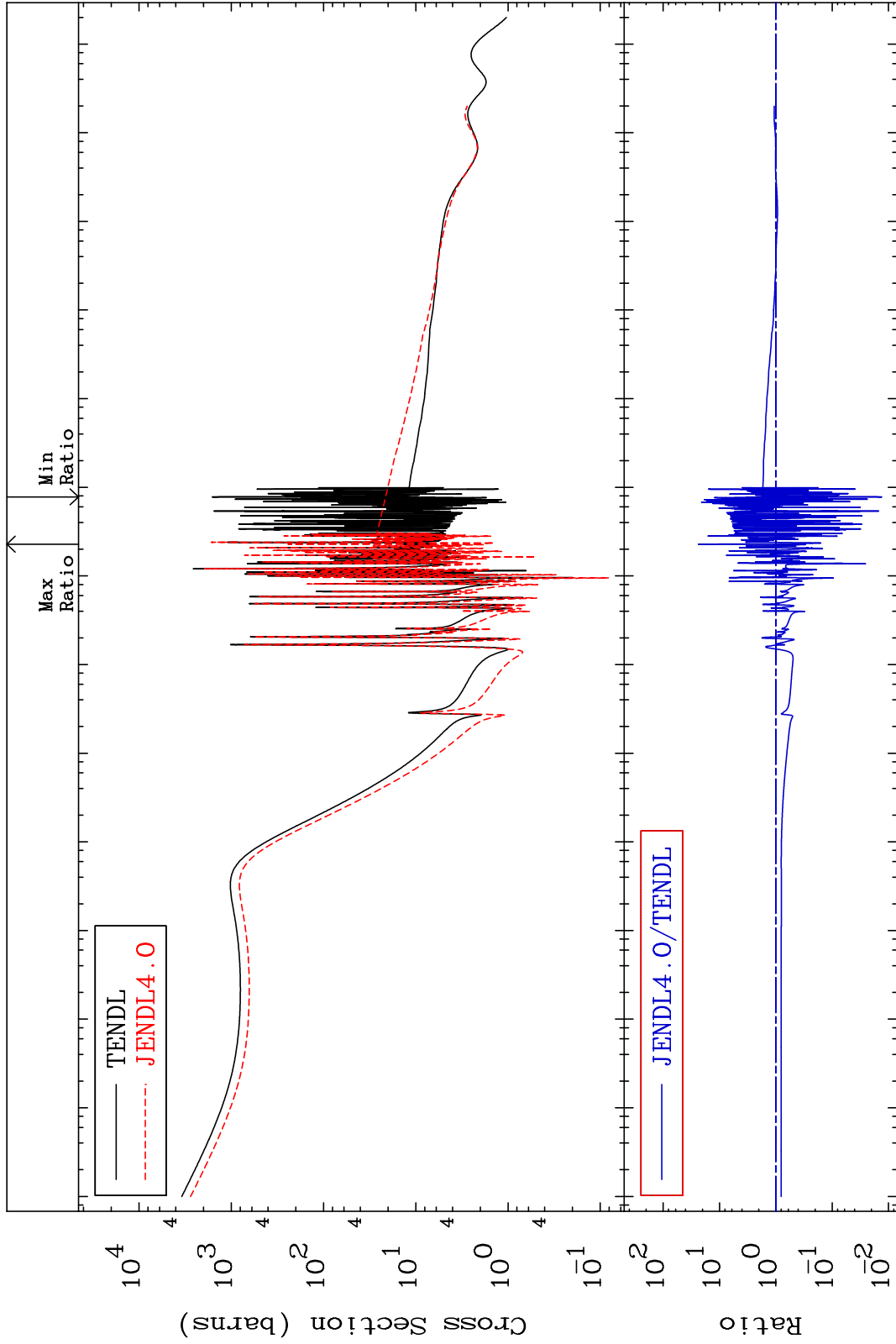
MAT 6440

Elastic

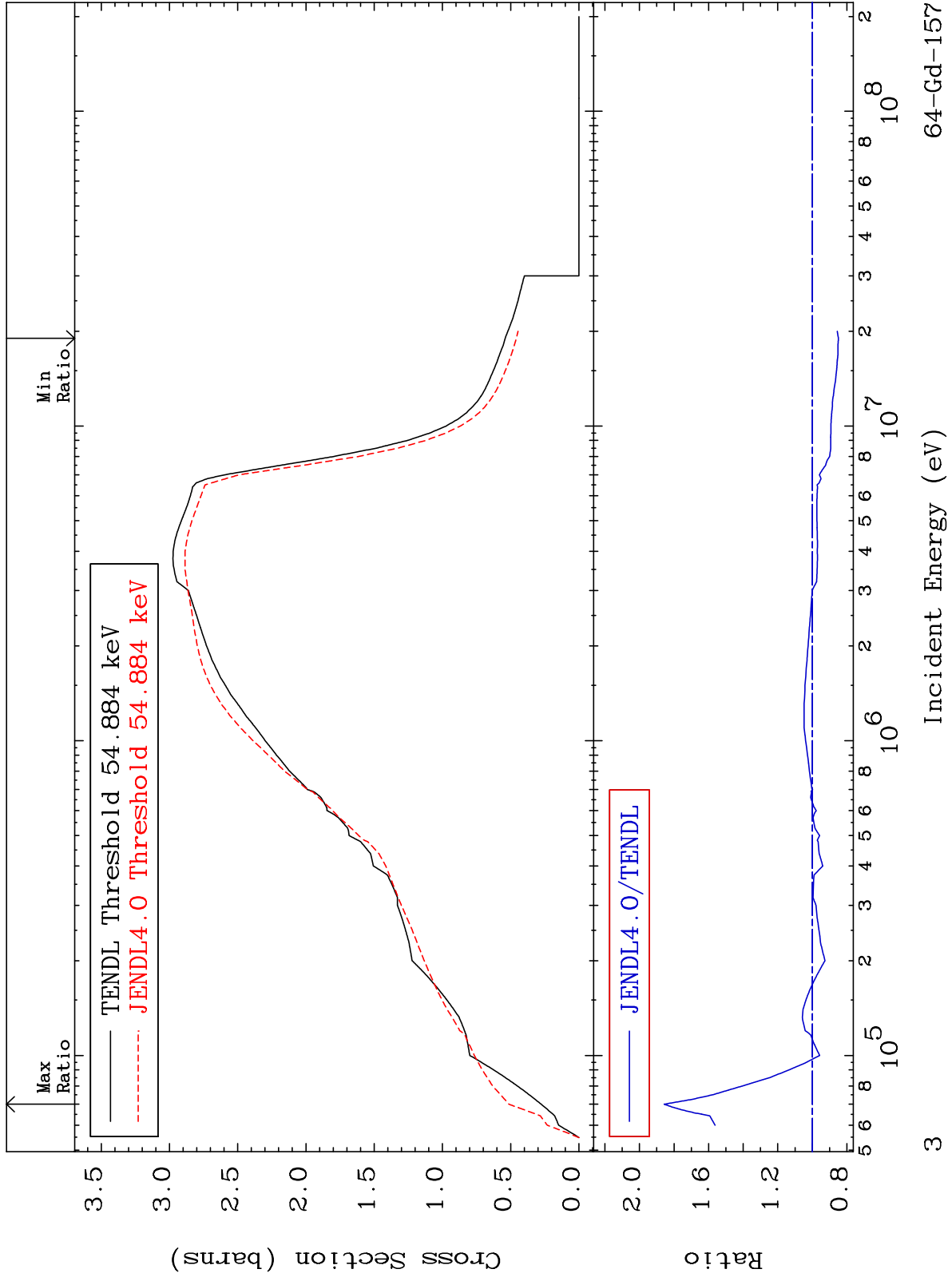
64-Gd-157

Cross Section

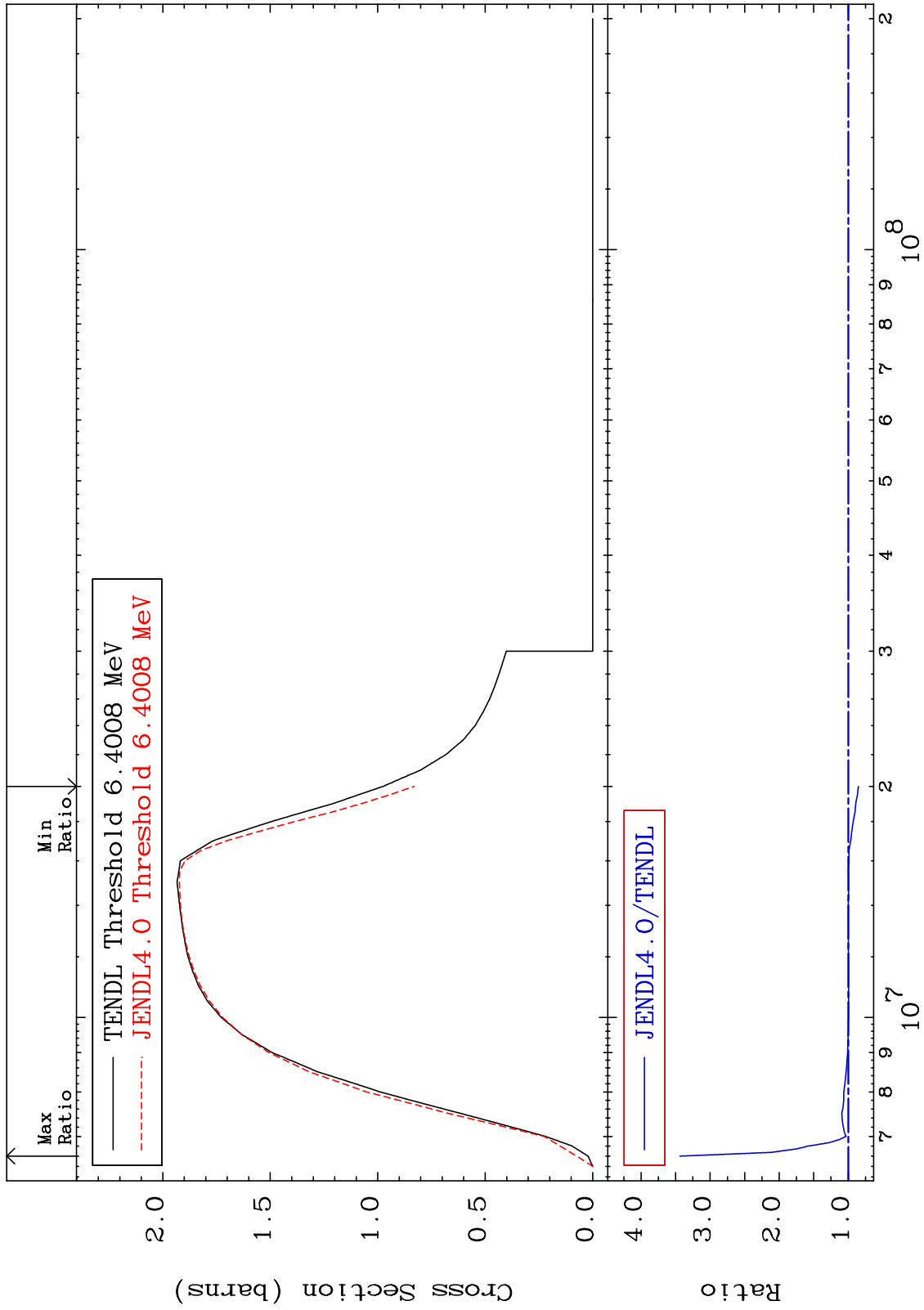
-98.67 To 2270. %



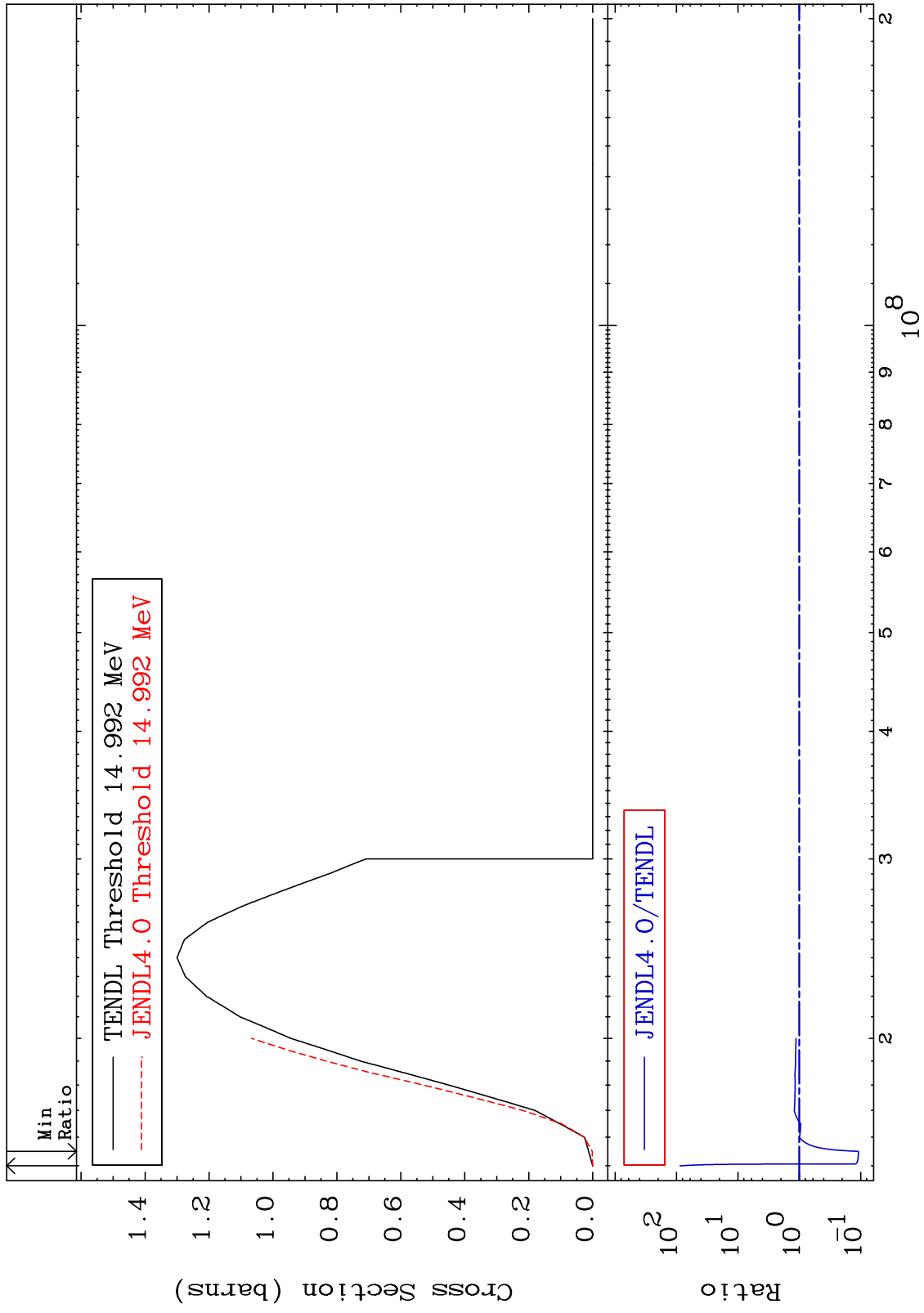
MAT 6440 Inelastic Cross Section 64-Gd-157 -15.09 To 85.70 %

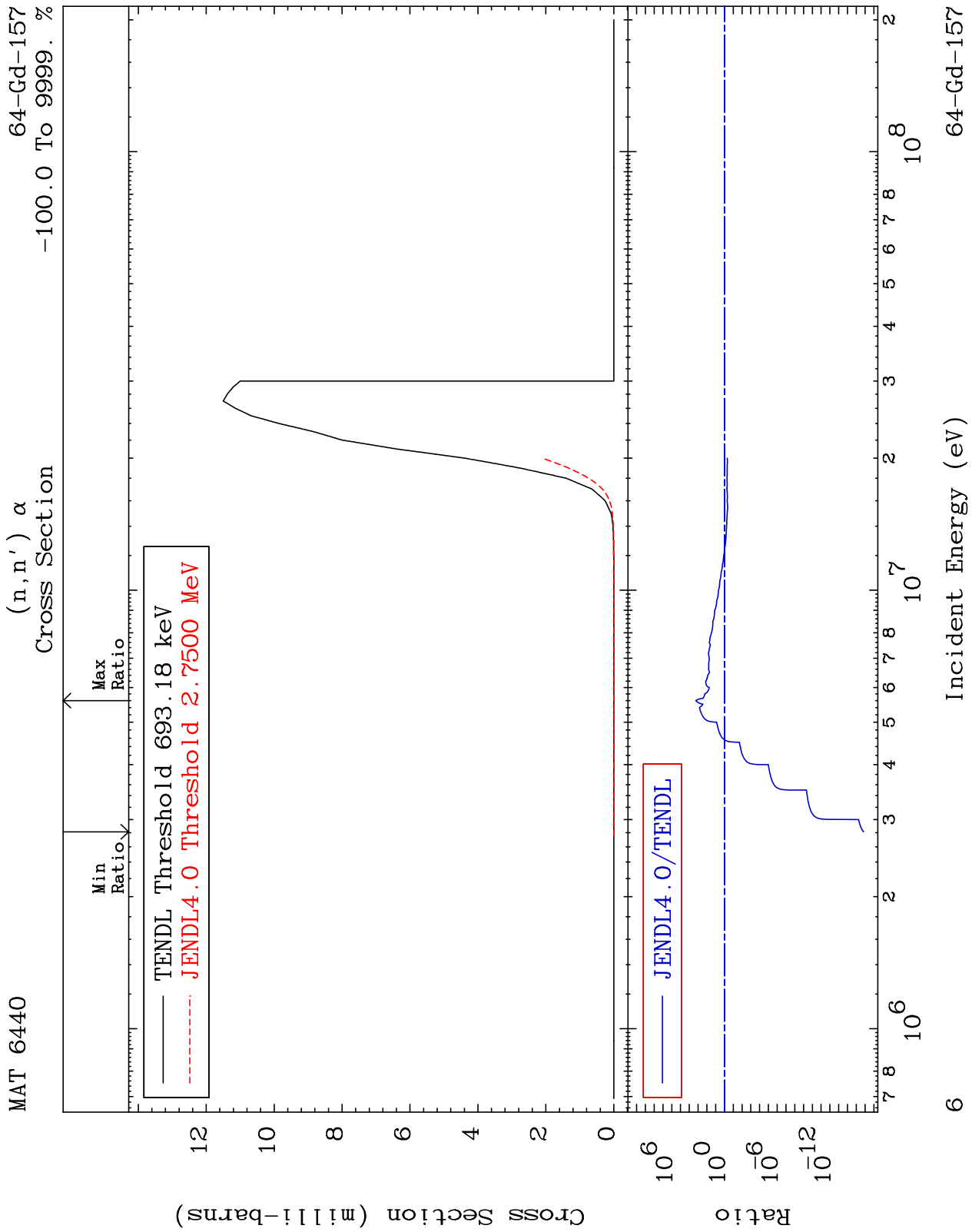


MAT 6440 (n,2n) Cross Section 64-Gd-157 -14.73 To 243.6 %

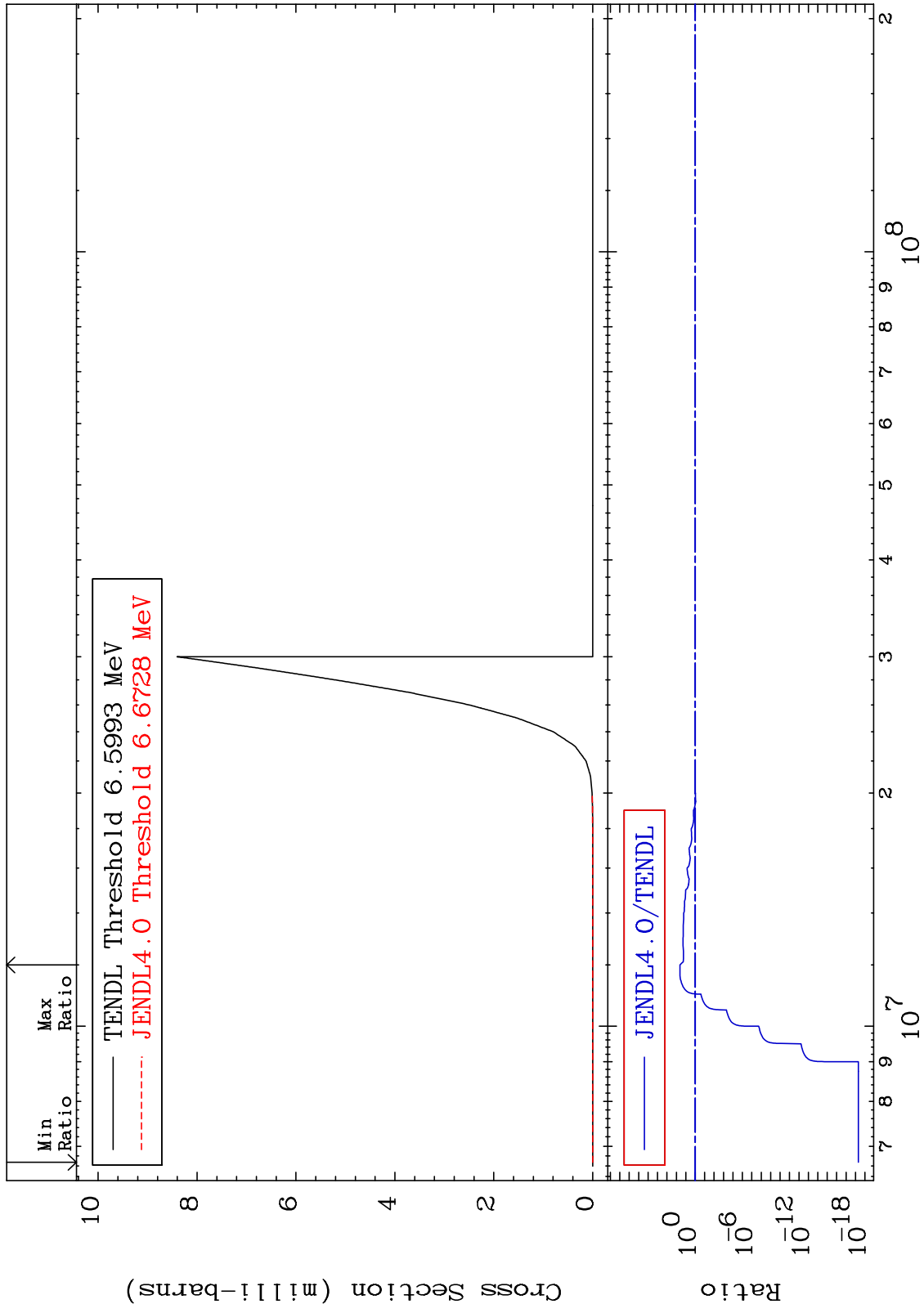


MAT 6440 (n,3n) Cross Section 64-Gd-157 -89.09 To 8685. %





MAT 6440 (n,2n)  $\alpha$  64-Gd-157  
 Cross Section -100.0 To 4000. %



64-Gd-157

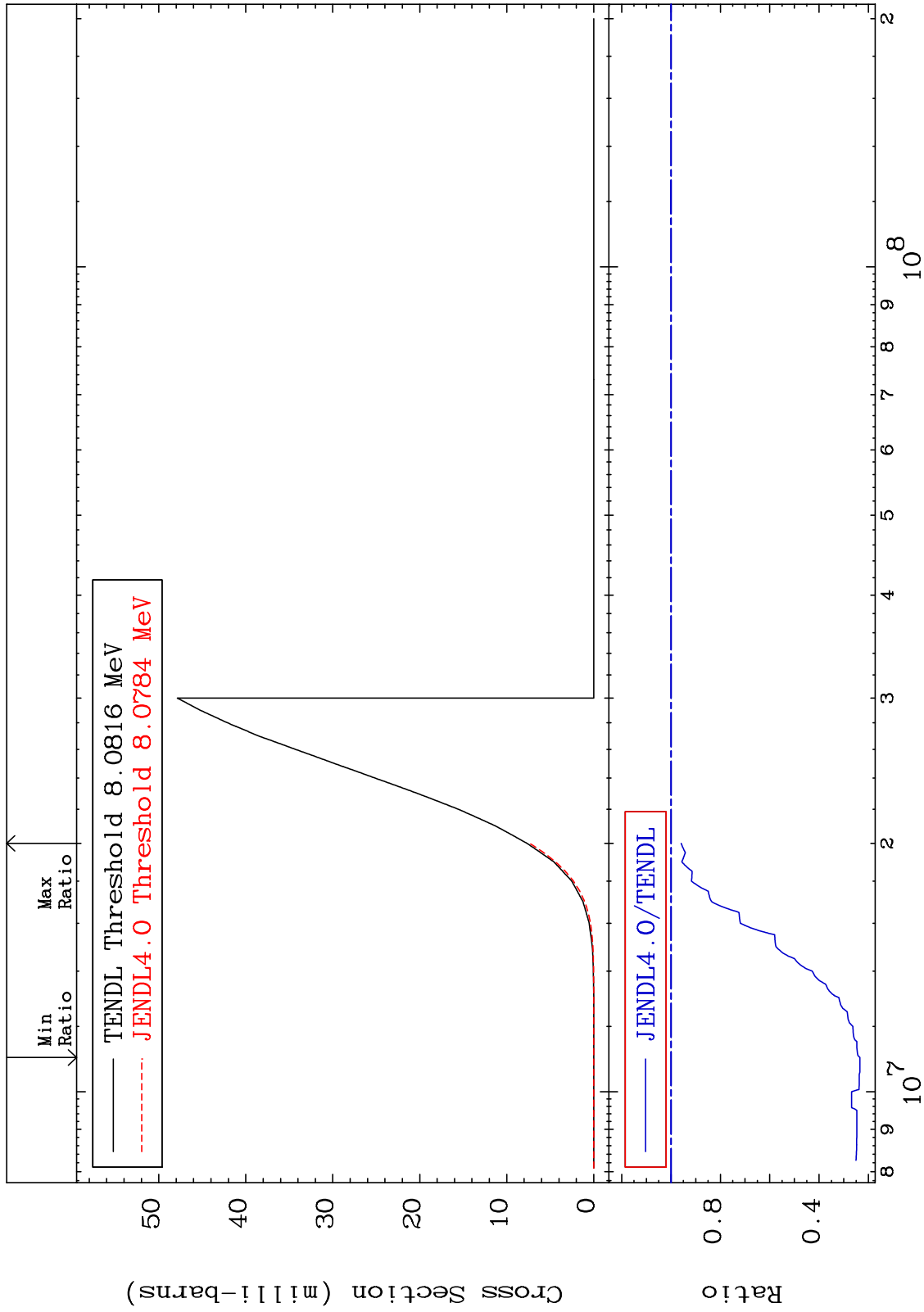
Incident Energy (eV)



MAT 6440

(n,n') p  
Cross Section

64-Gd-157  
-76.56 To -4.130%



64-Gd-157

Incident Energy (eV)

8

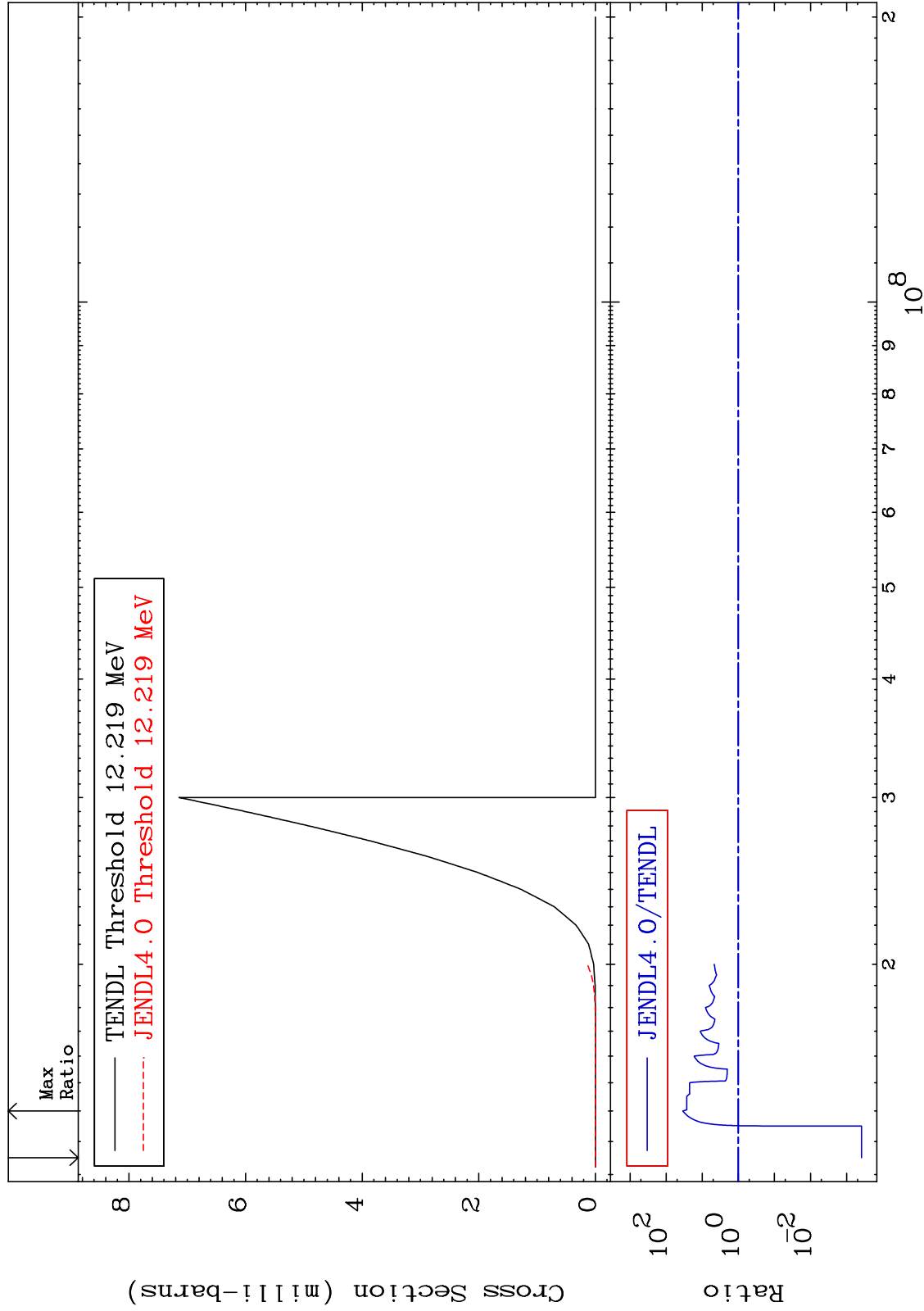
MAT 6440

(n,n') d

64-Gd-157

Cross Section

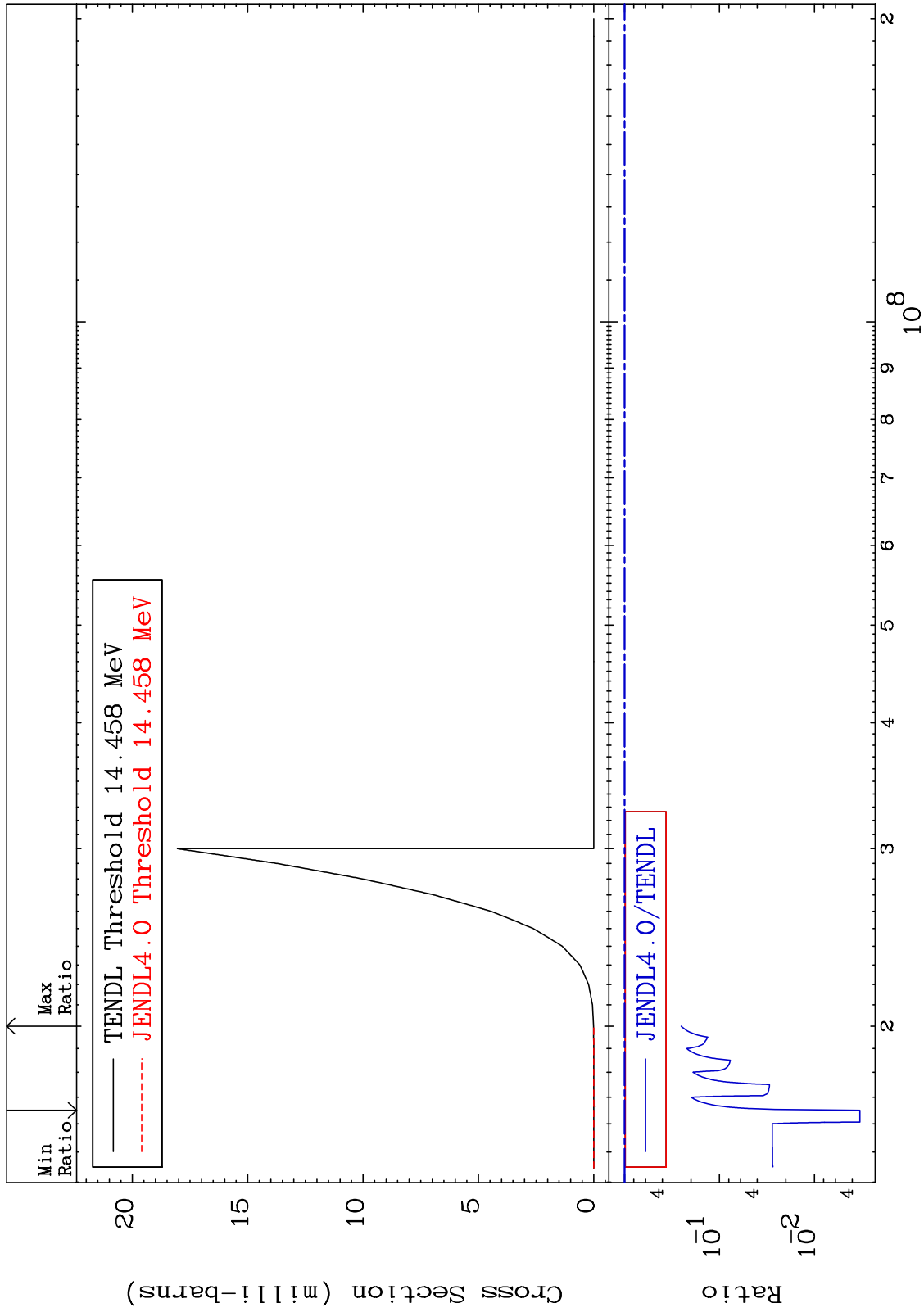
-99.96 To 3342. %



MAT 6440

(n,2n) p  
Cross Section

64-Gd-157  
-99.67 To -74.73%

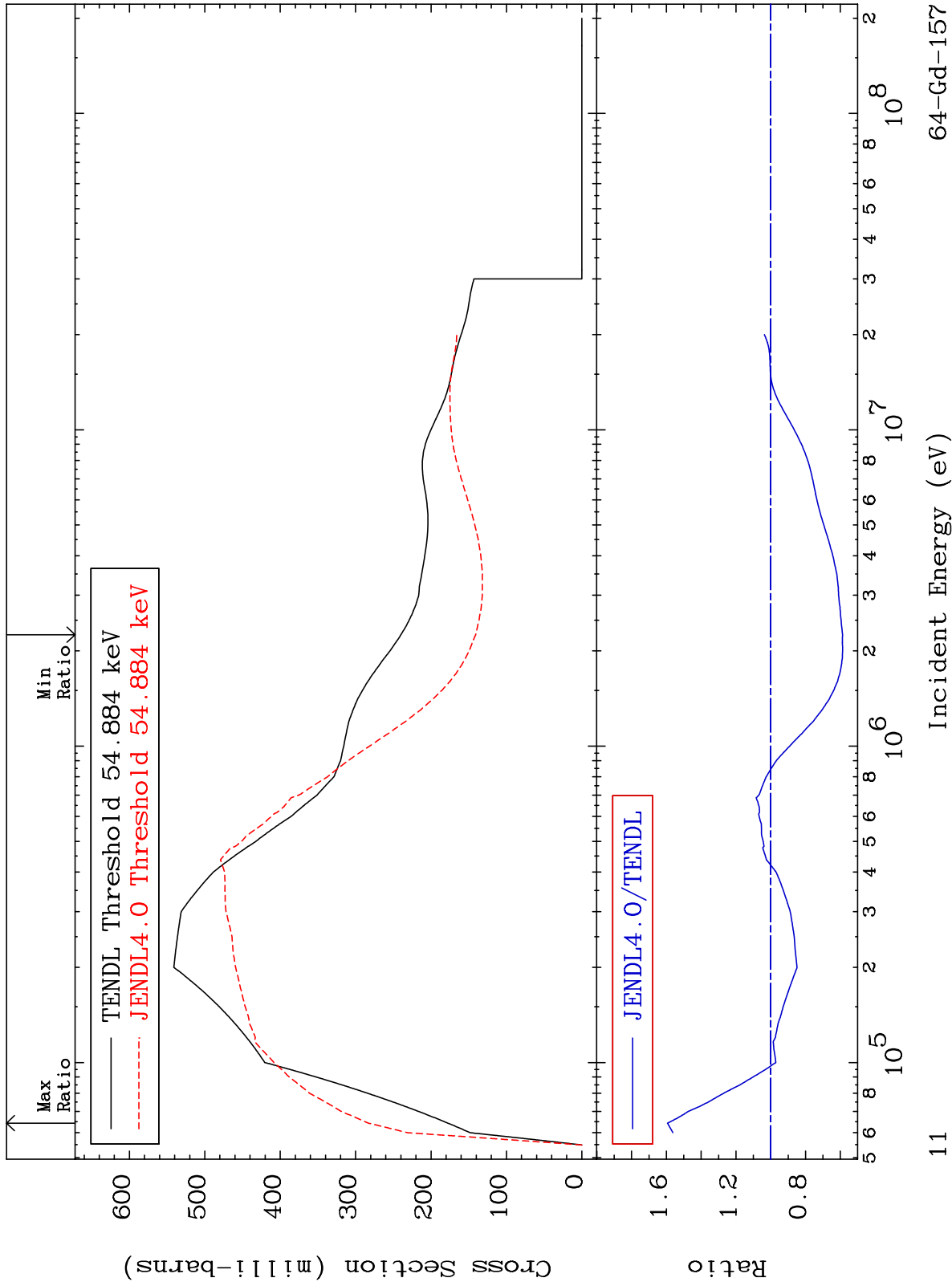


10

Incident Energy (eV)

64-Gd-157

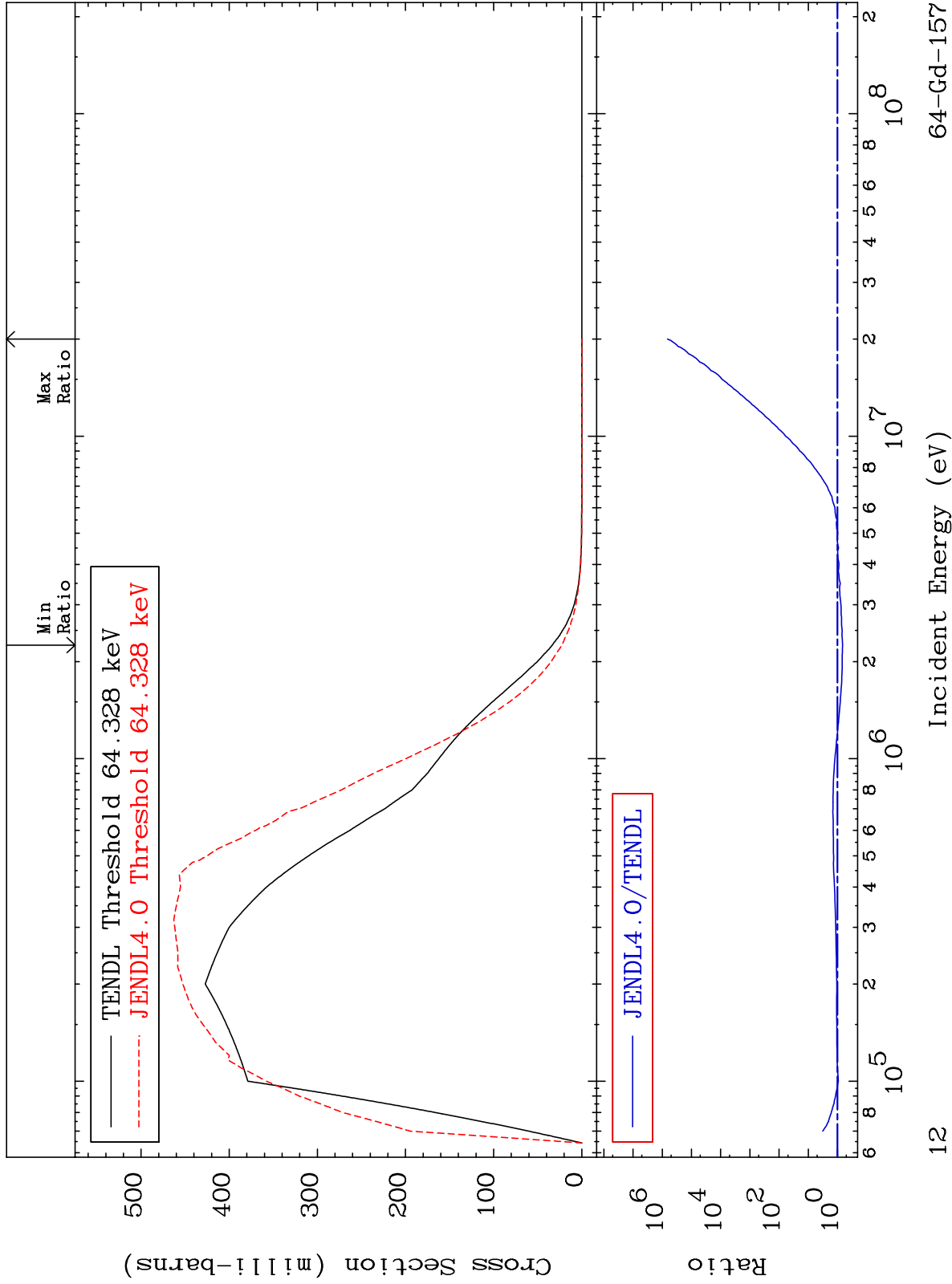
MAT 6440      MT= 51 (n,n') Level      64-Gd-157  
 Cross Section      -41.33 To 59.32 %



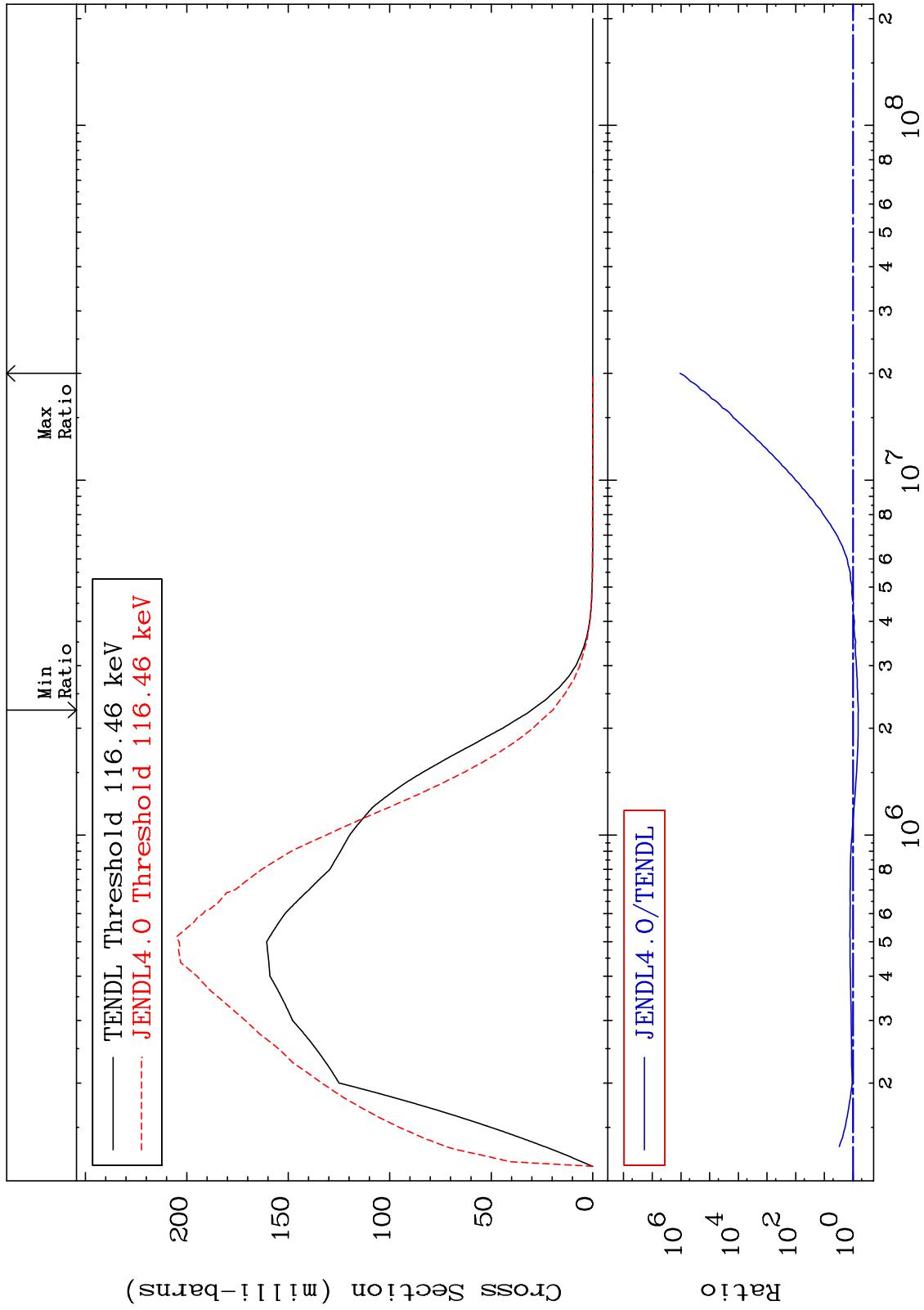
MAT 6440

MT= 52 (n,n') Level  
Cross Section

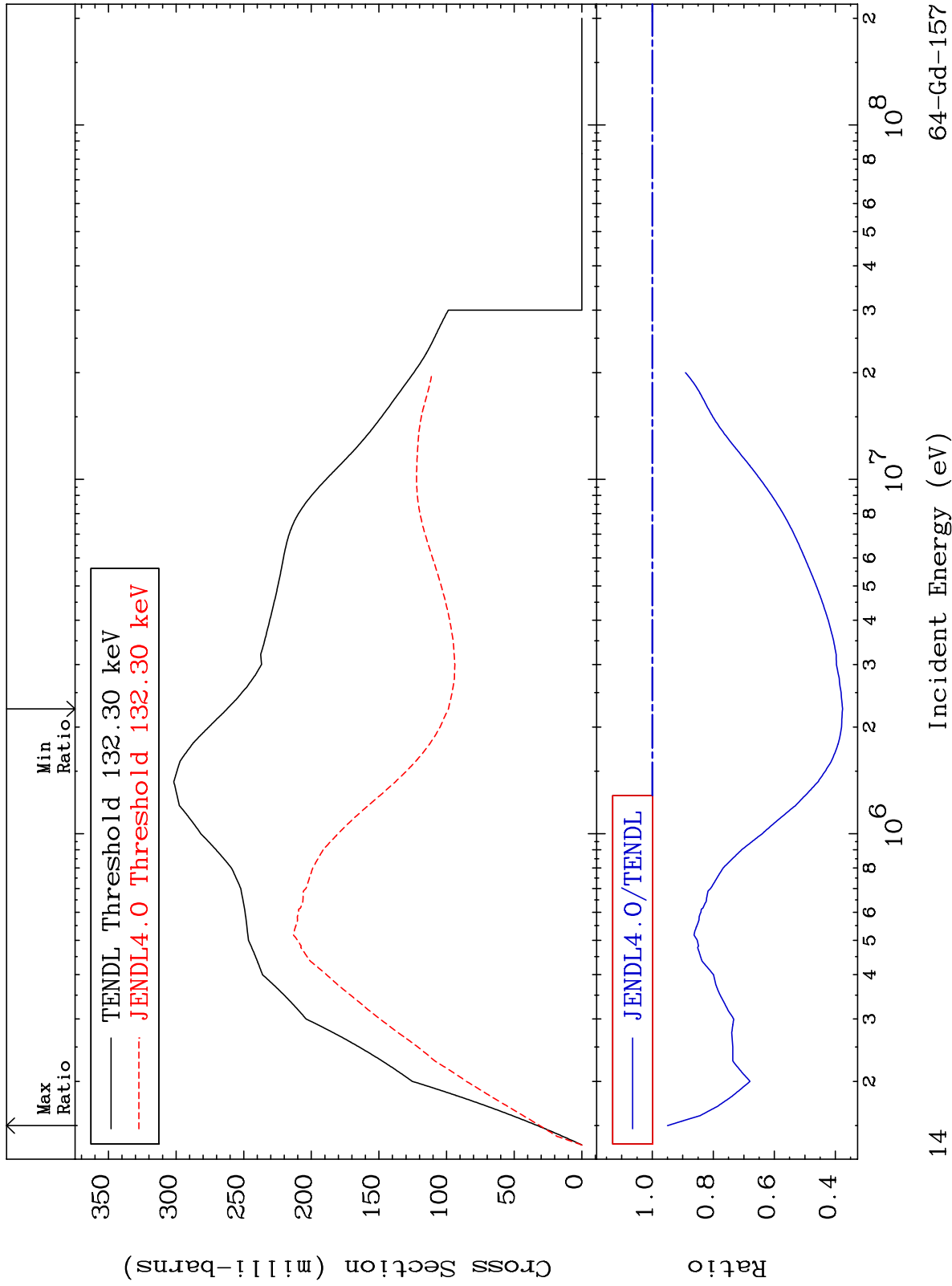
64-Gd-157  
-33.14 To 9999. %



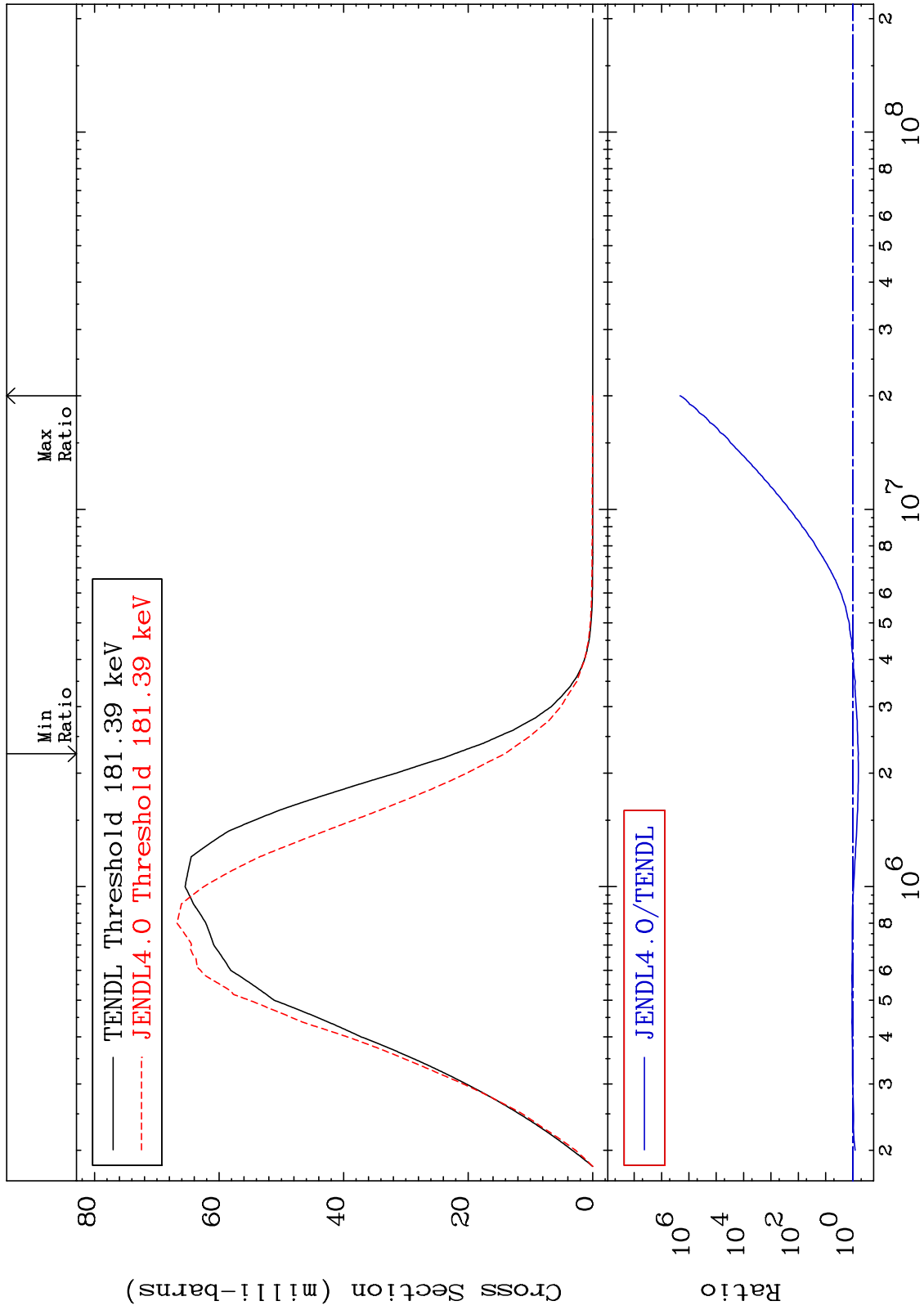
MAT 6440      MT= 53 (n,n') Level      64-Gd-157  
 Cross Section      -34.81 To 9999. %



MAT 6440 MT= 54 (n,n') Level Cross Section 64-Gd-157 -62.39 To -5.012%

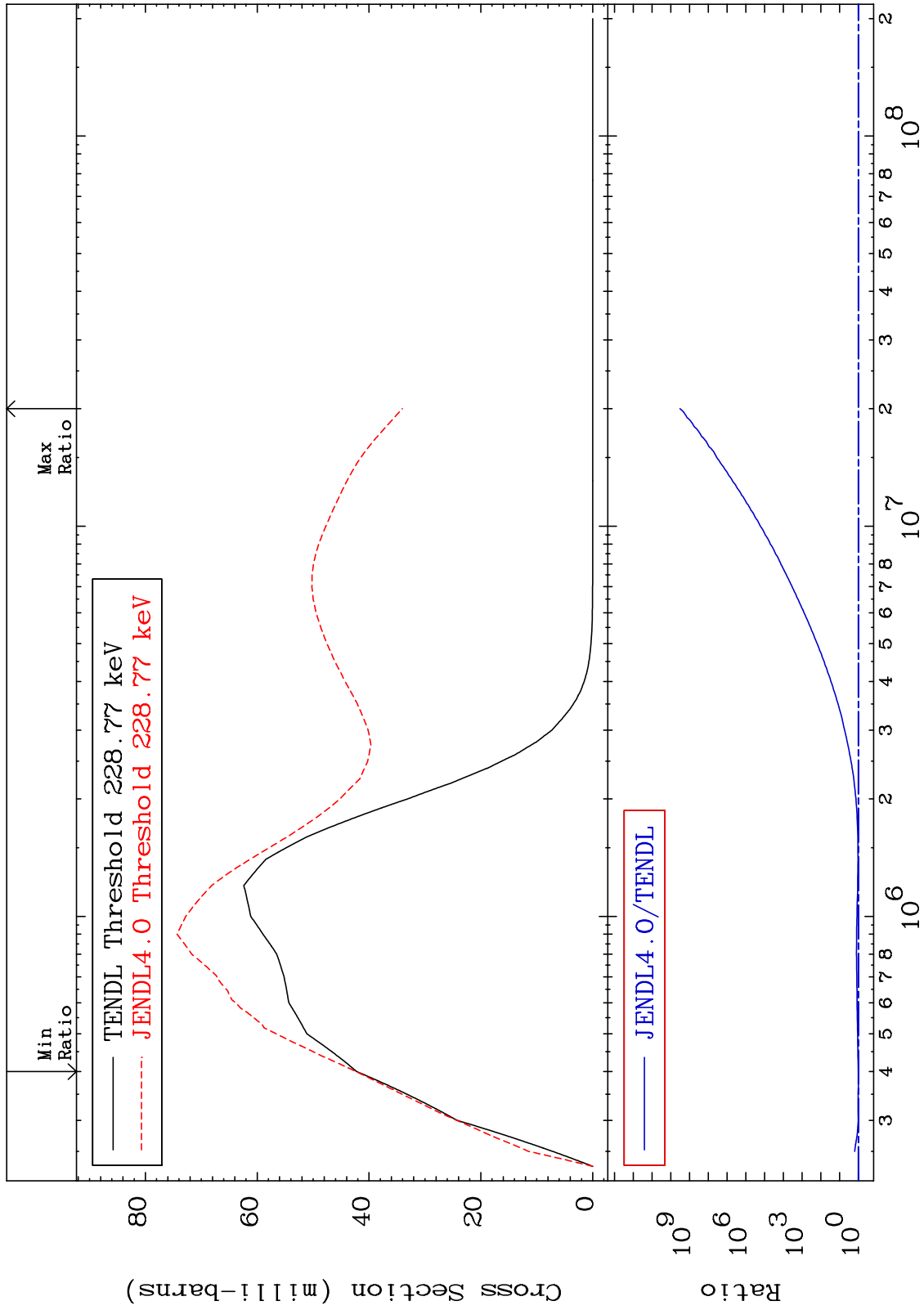


MAT 6440      MT= 55 (n,n') Level      64-Gd-157  
 Cross Section      -36.55 To 9999. %

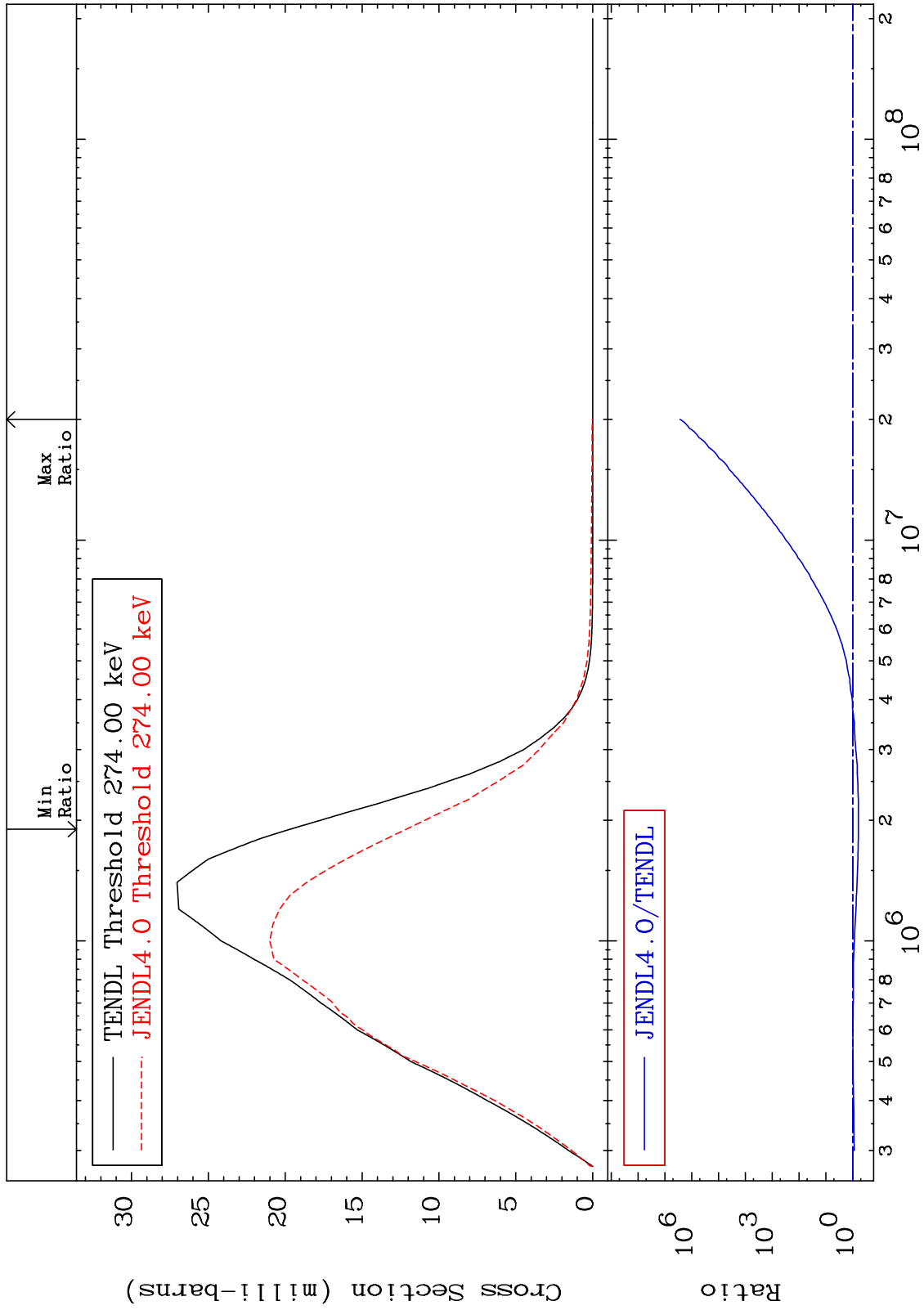




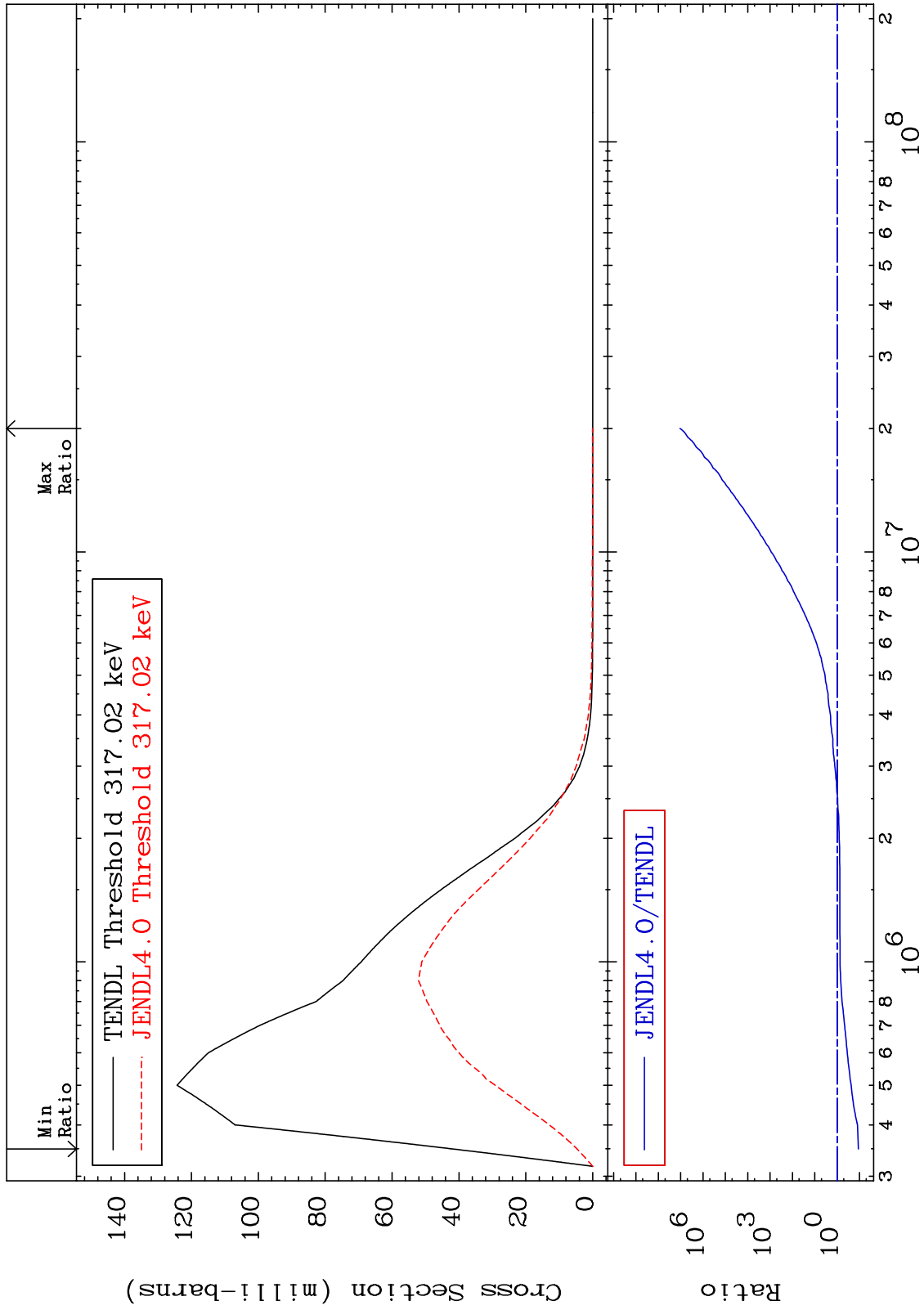
MAT 6440 MT= 56 (n,n') Level Cross Section 64-Gd-157  
 0.235 To 9999. %



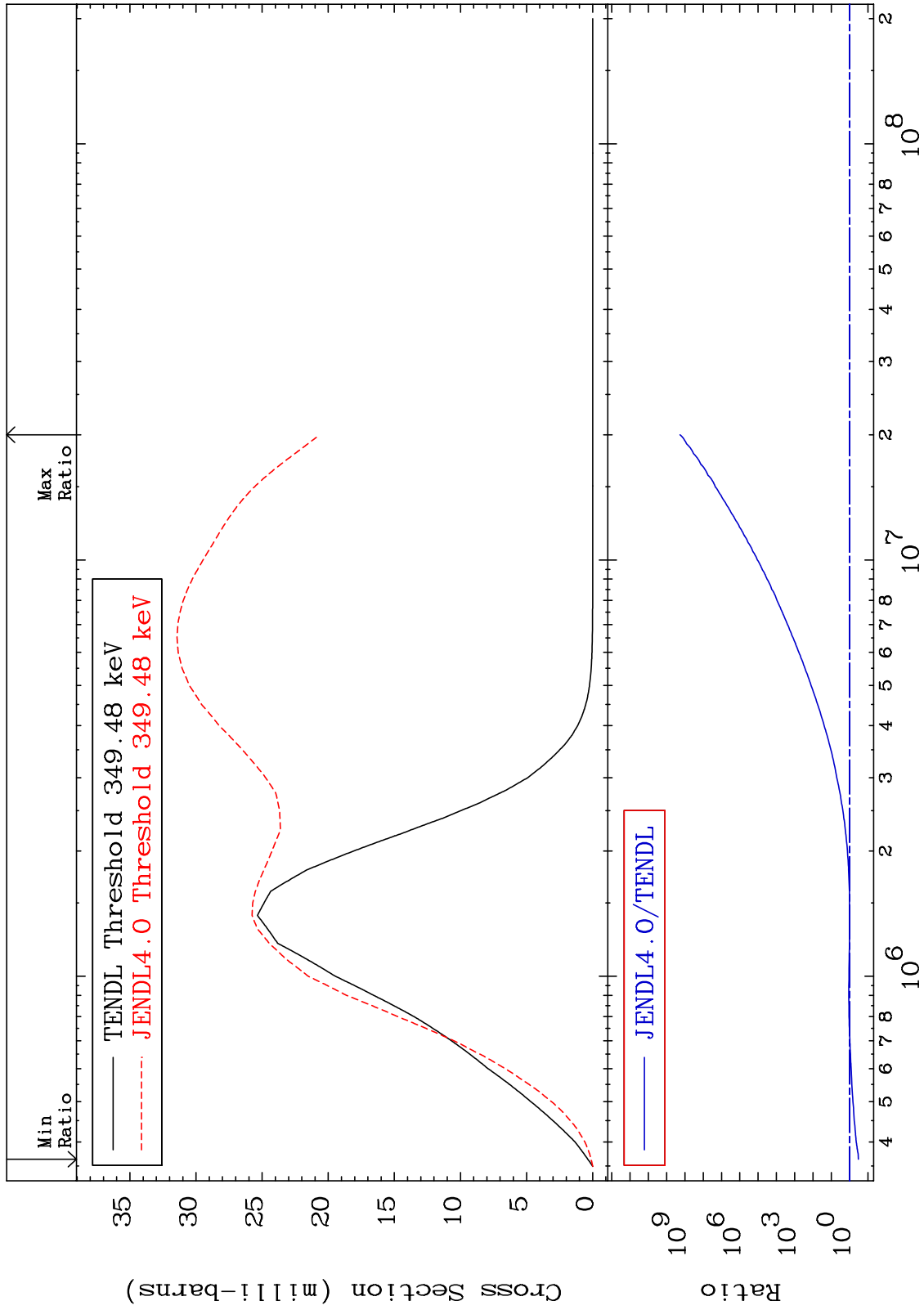
MAT 6440      MT= 57 (n,n') Level      64-Gd-157  
 Cross Section      -38.37 To 9999. %

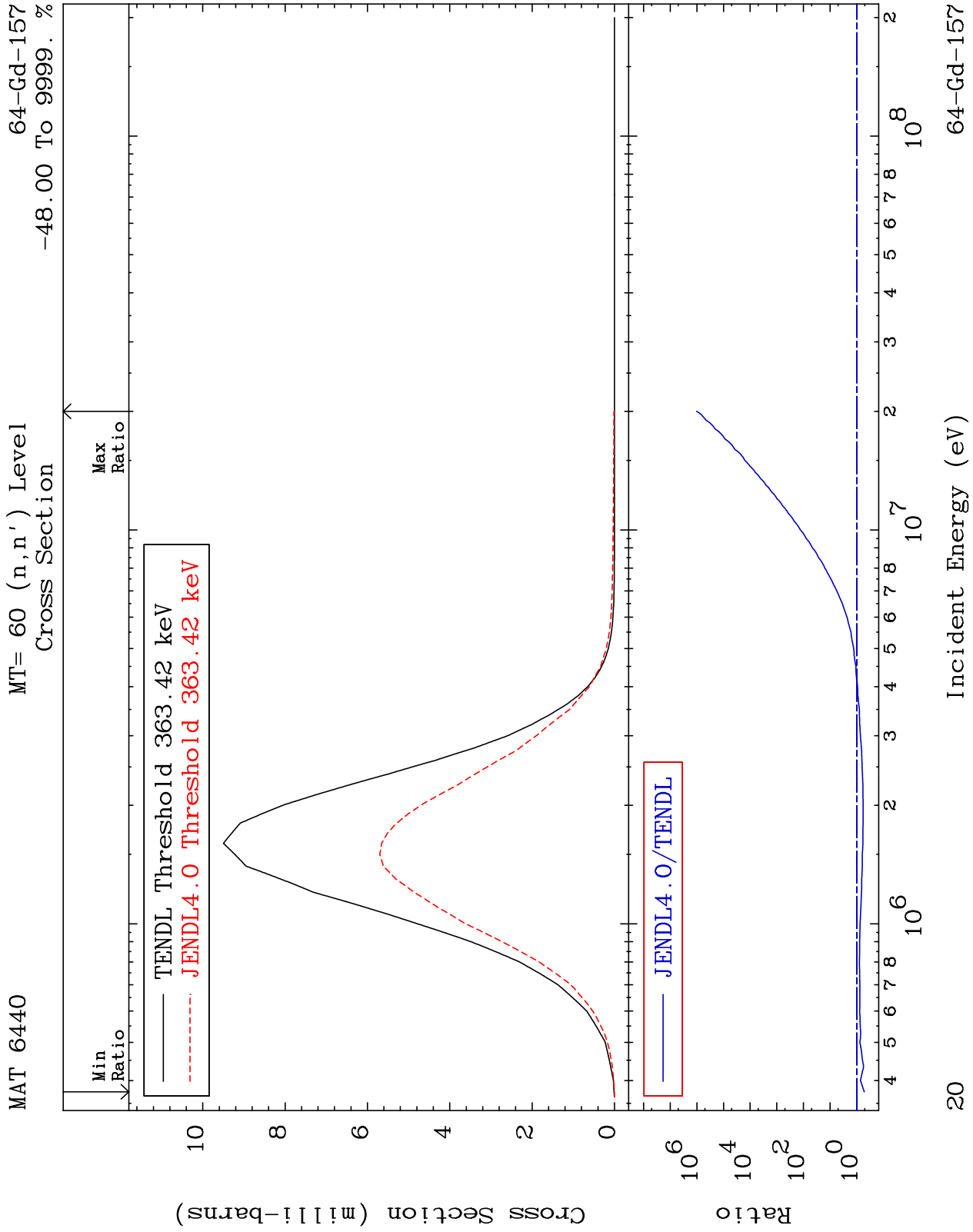


MAT 6440      MT= 58 (n,n') Level      64-Gd-157  
 Cross Section      -88.87 To 9999. %

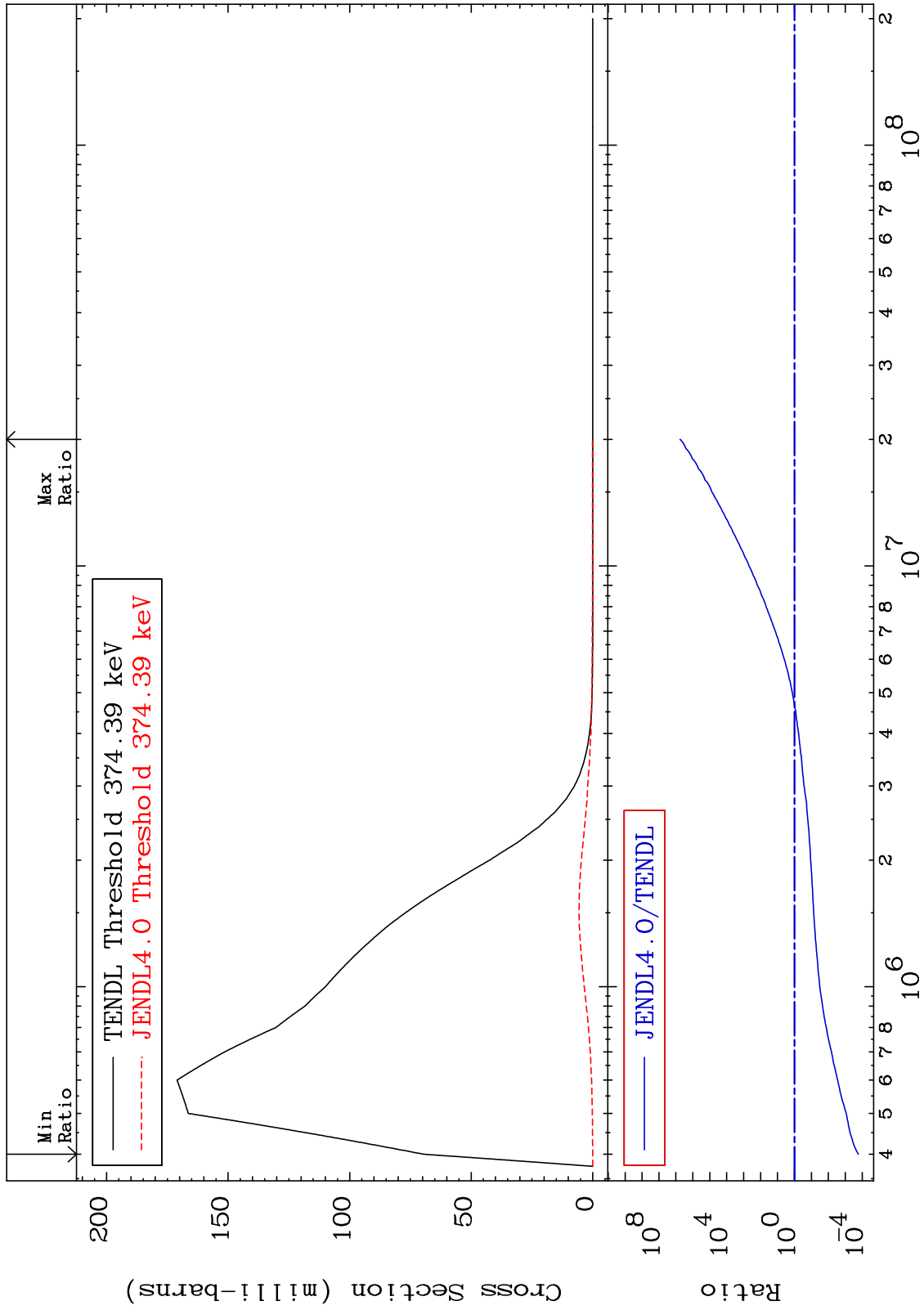


MAT 6440      MT= 59 (n,n') Level      64-Gd-157  
 Cross Section      -66.46 To 9999. %

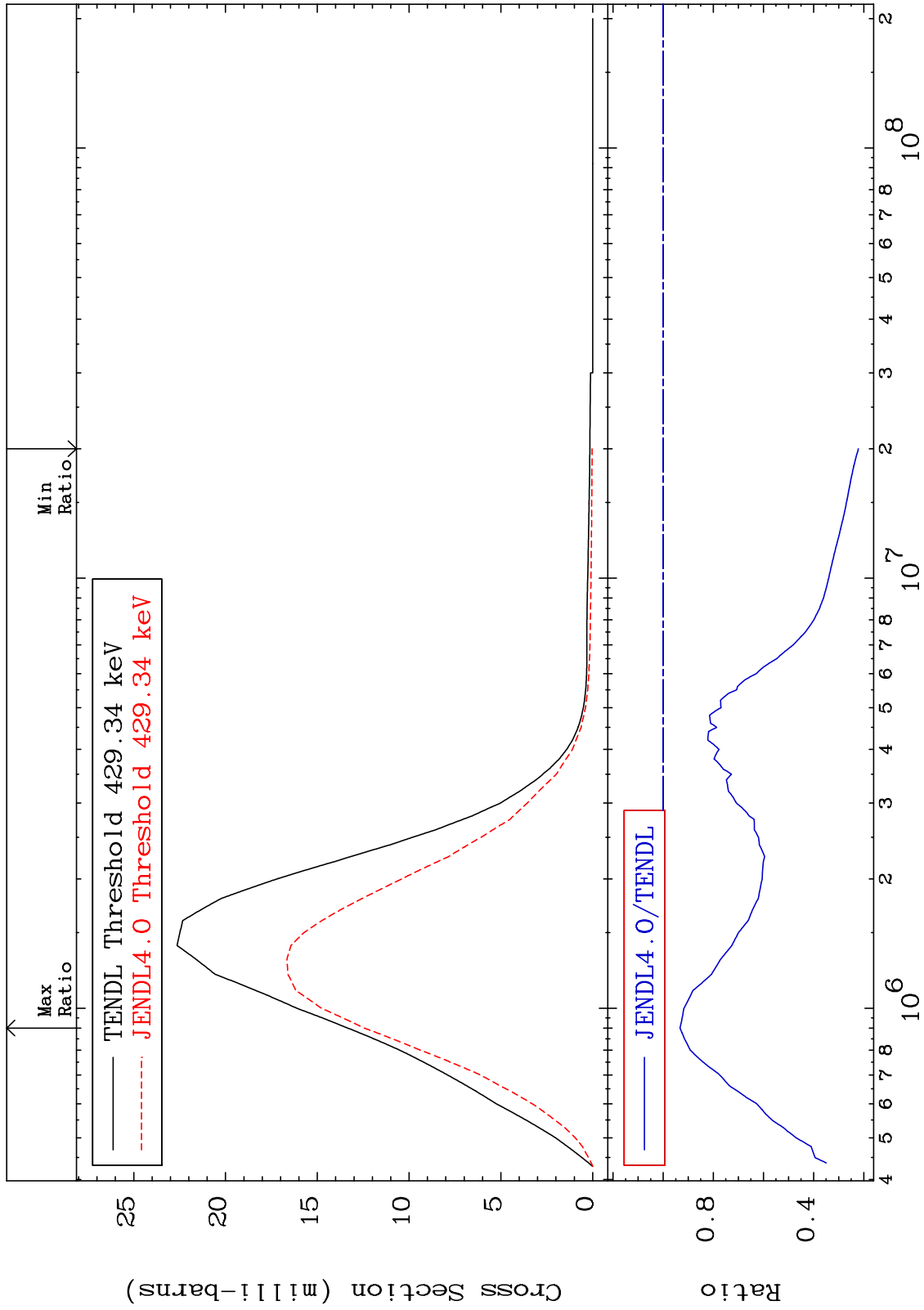




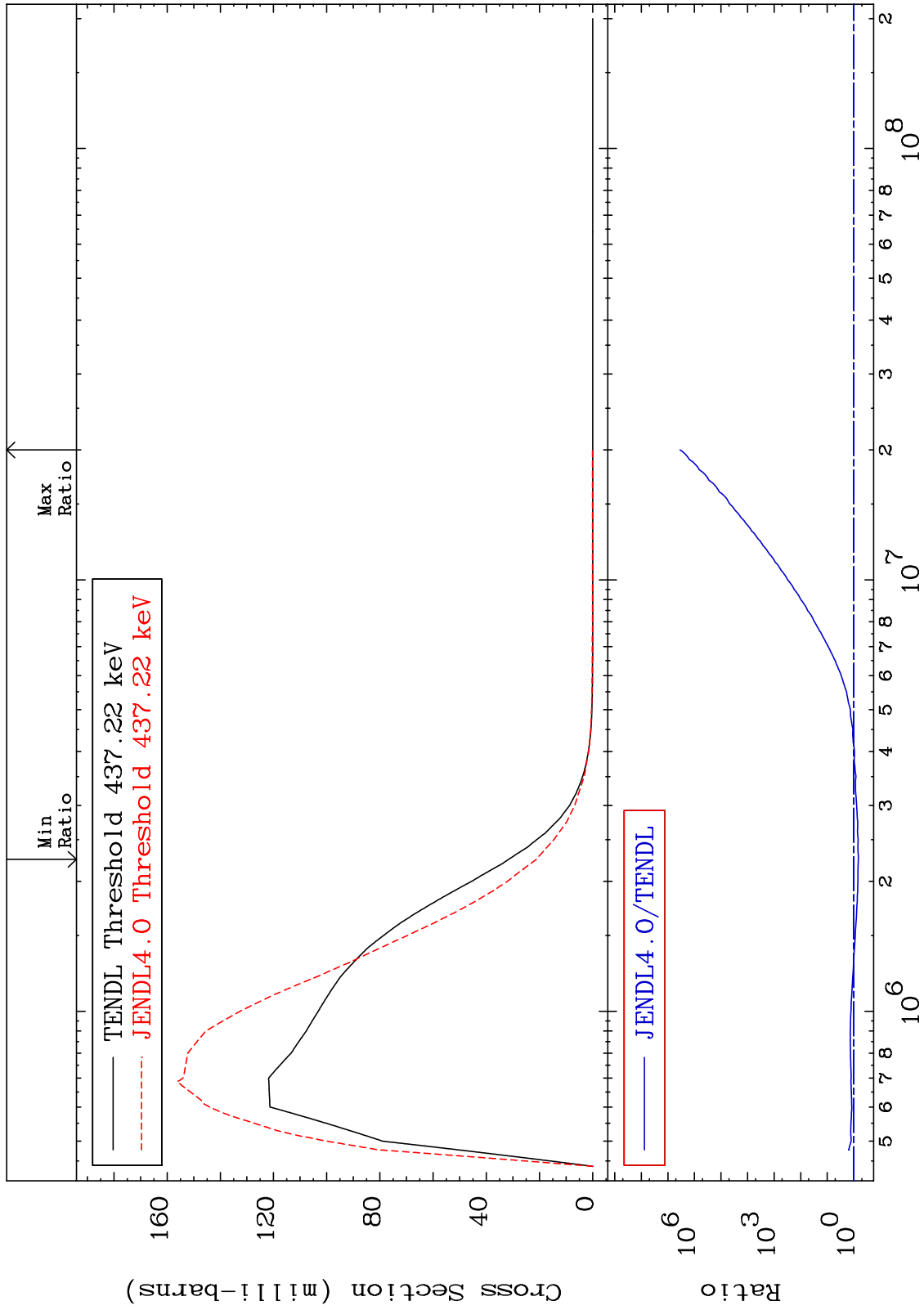
MAT 6440      MT= 61 (n,n') Level      64-Gd-157  
 Cross Section      -99.98 To 9999. %



MAT 6440 MT= 62 (n,n') Level Cross Section 64-Gd-157  
-77.88 To -6.721%

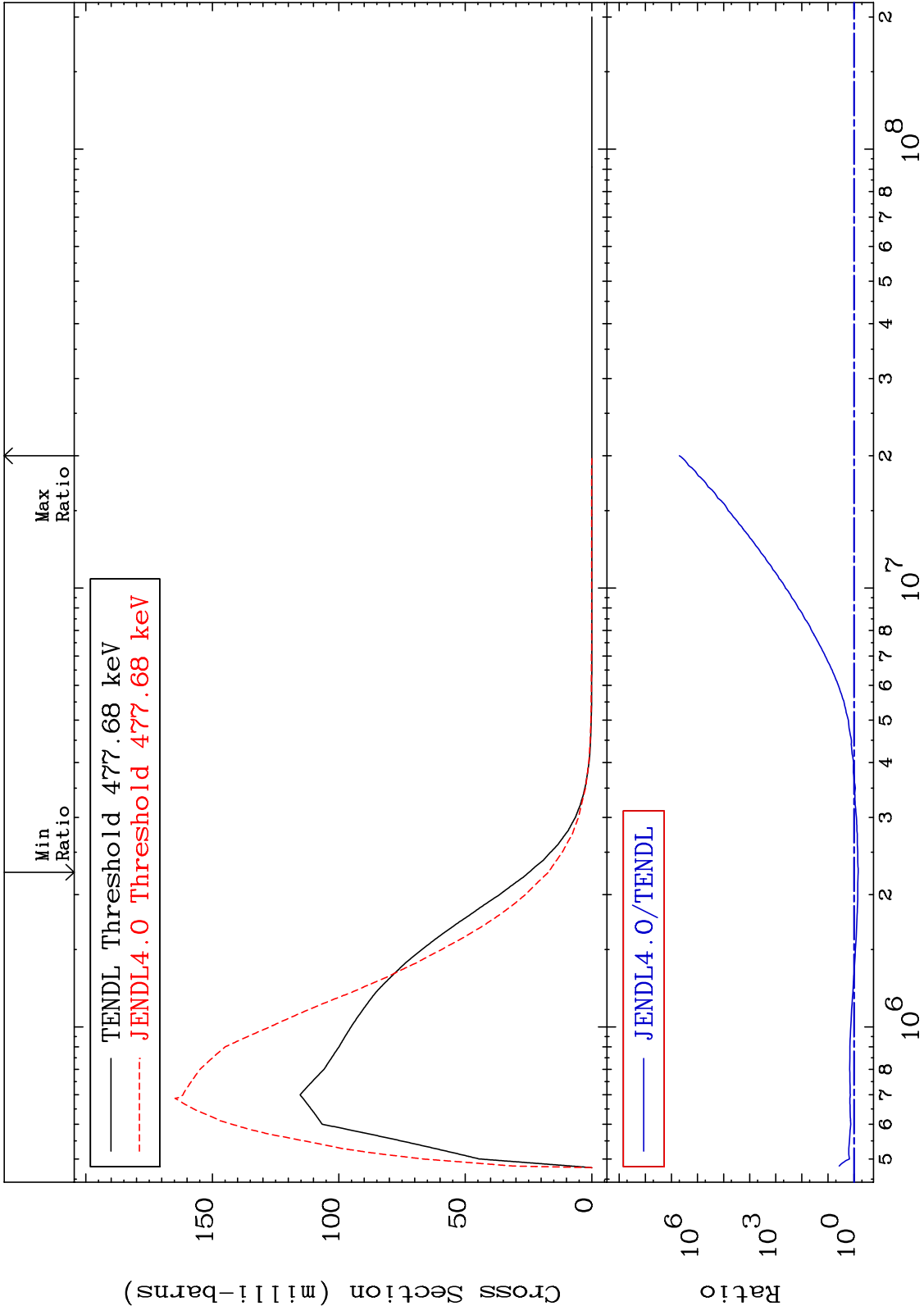


MAT 6440 MT= 63 (n,n') Level Cross Section 64-Gd-157  
-32.92 To 9999. %





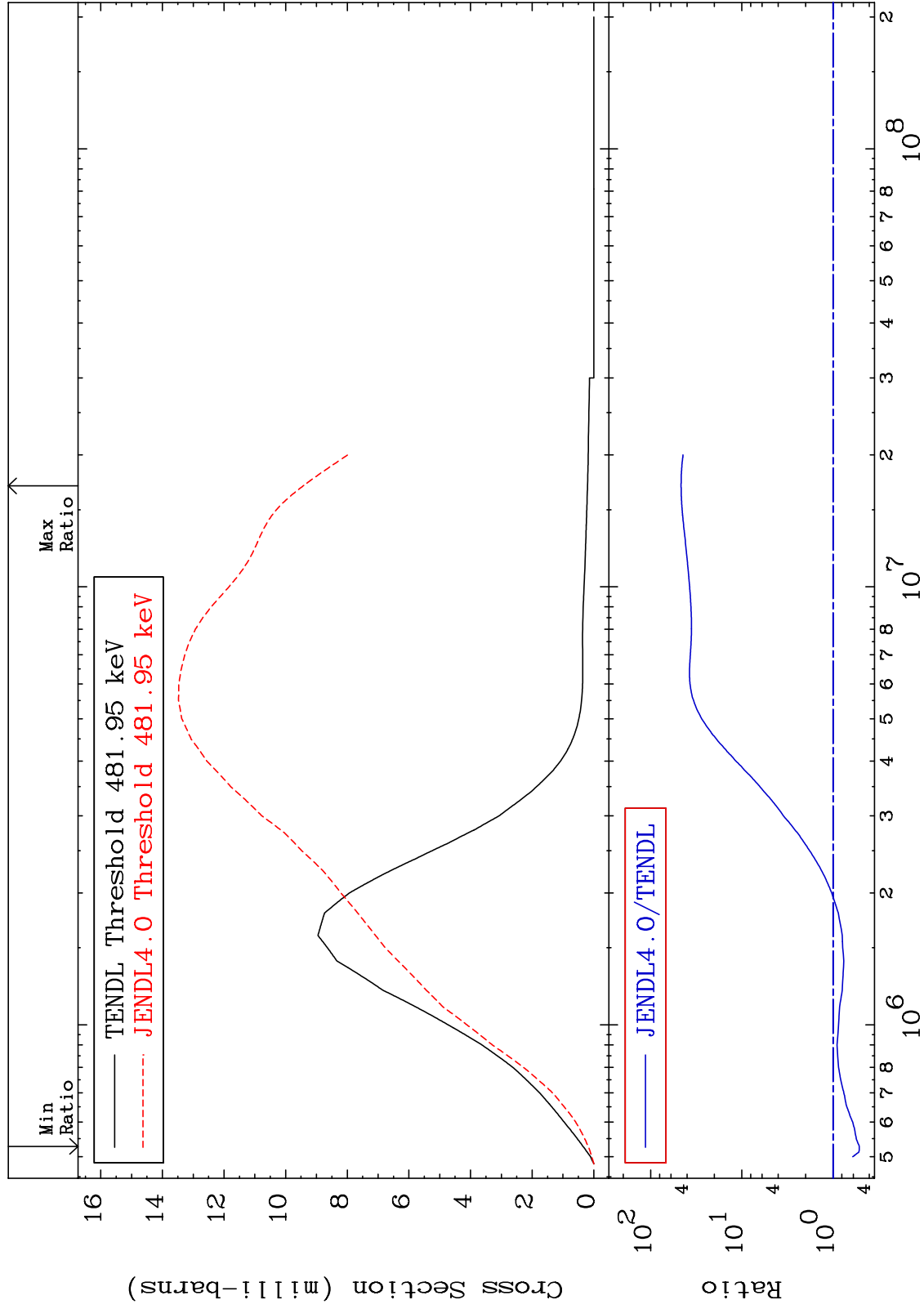
MAT 6440      MT= 64 (n,n') Level      64-Gd-157  
Cross Section      -30.97 To 9999. %



MAT 6440

MT= 65 (n,n') Level  
Cross Section

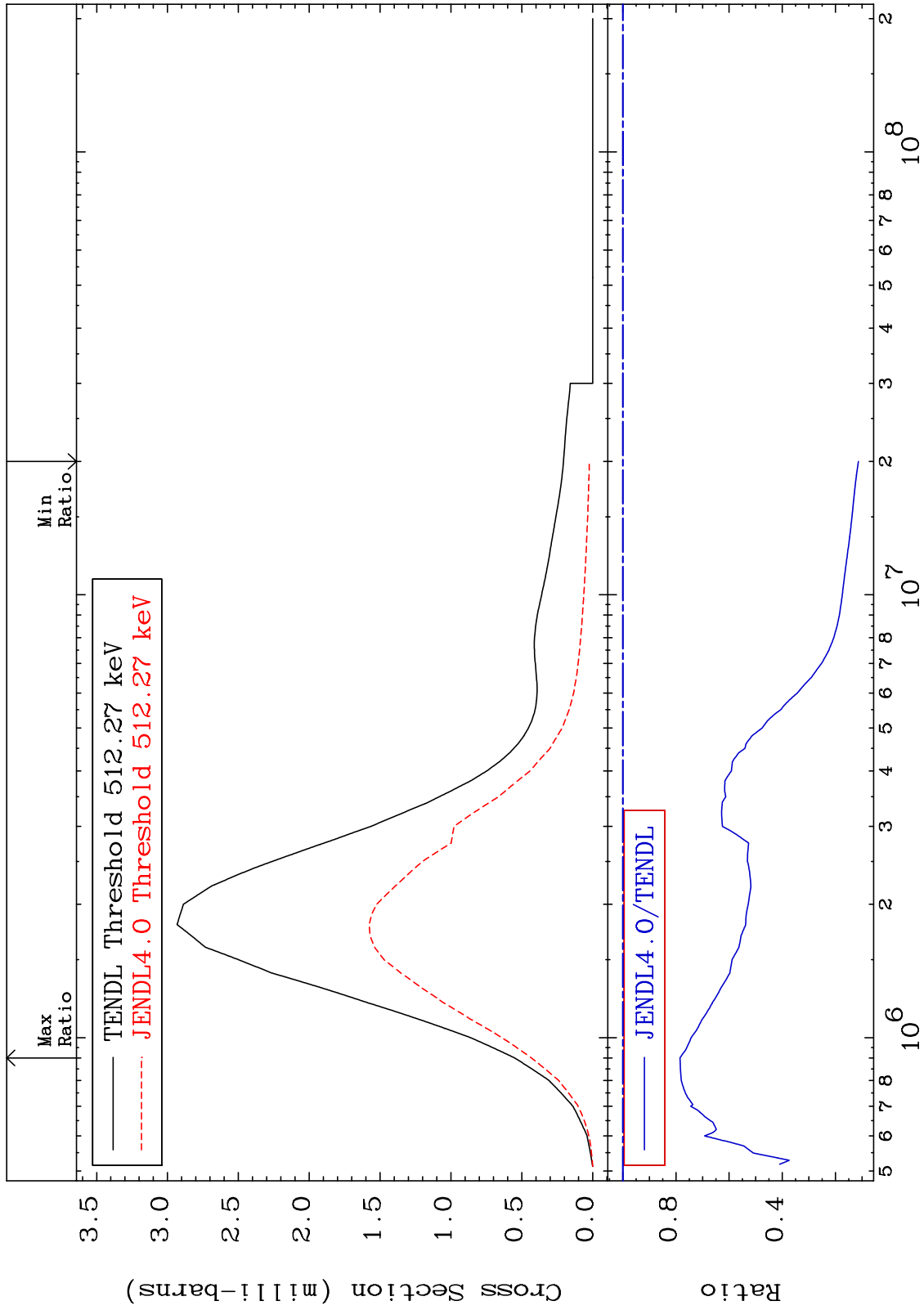
64-Gd-157  
-48.45 To 4547. %



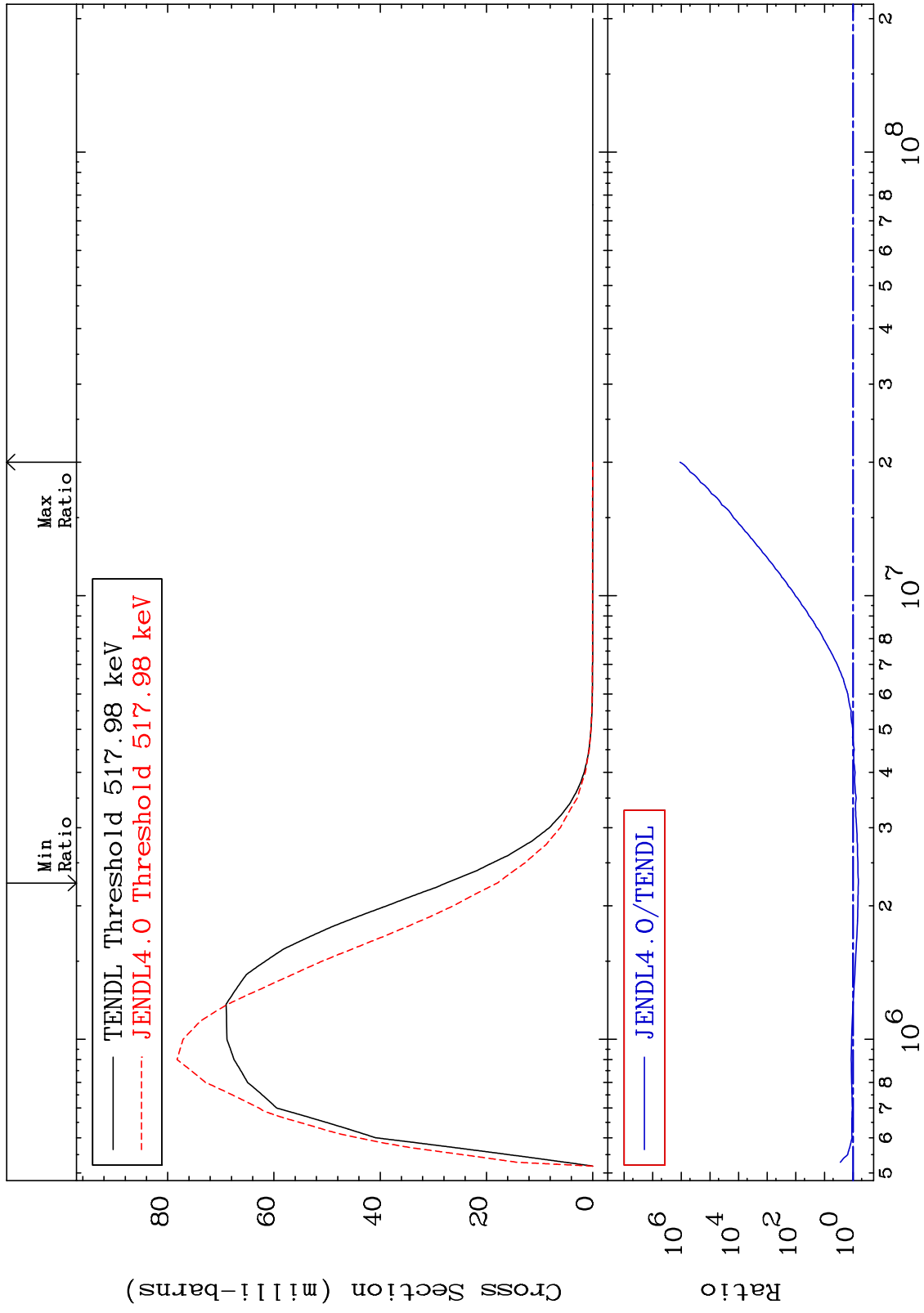
25

64-Gd-157

MAT 6440 MT= 66 (n,n') Level Cross Section 64-Gd-157 -88.65 To -21.52%



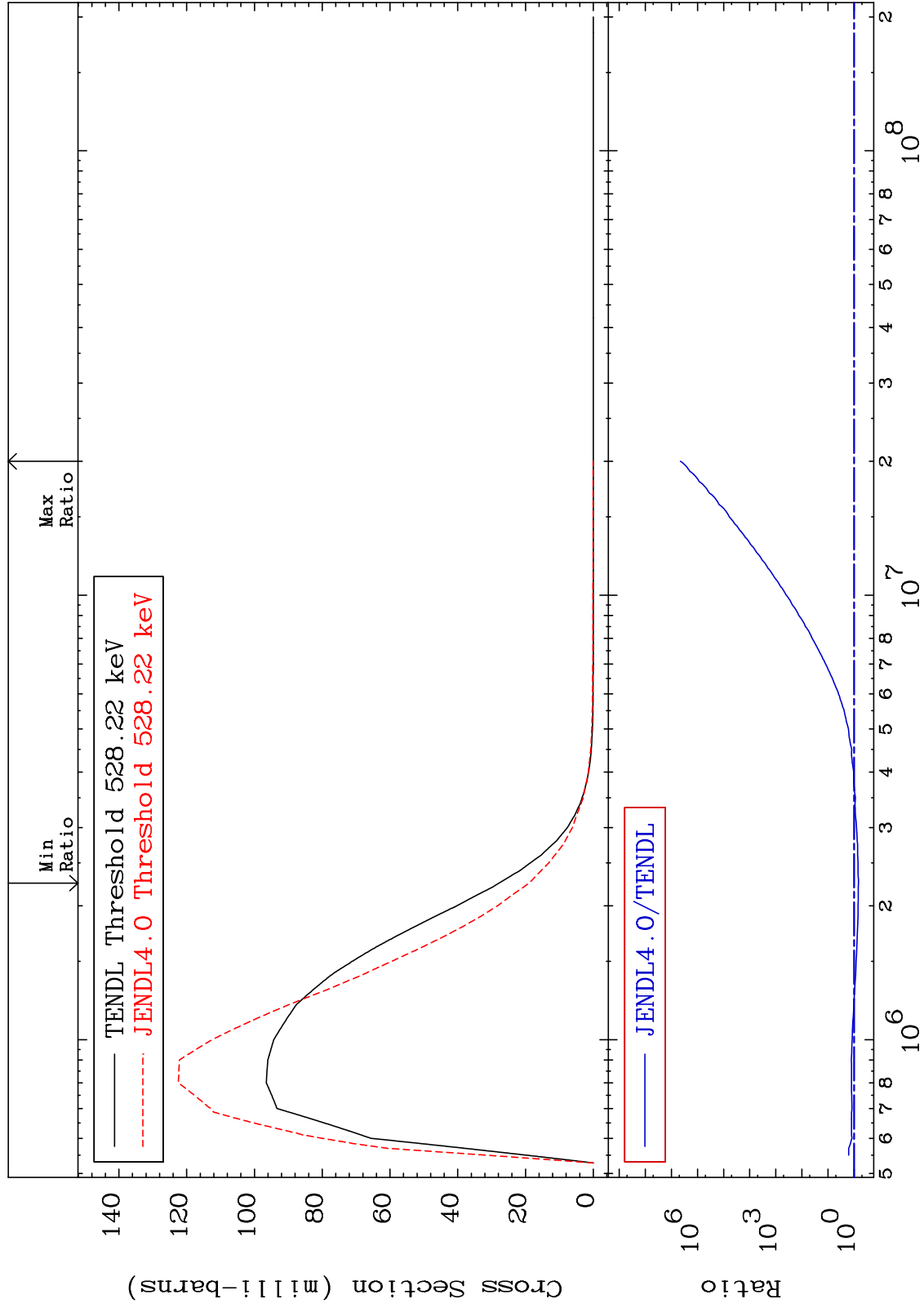
MAT 6440  
MT= 67 (n,n') Level  
Cross Section  
64-Gd-157  
-34.91 To 9999. %



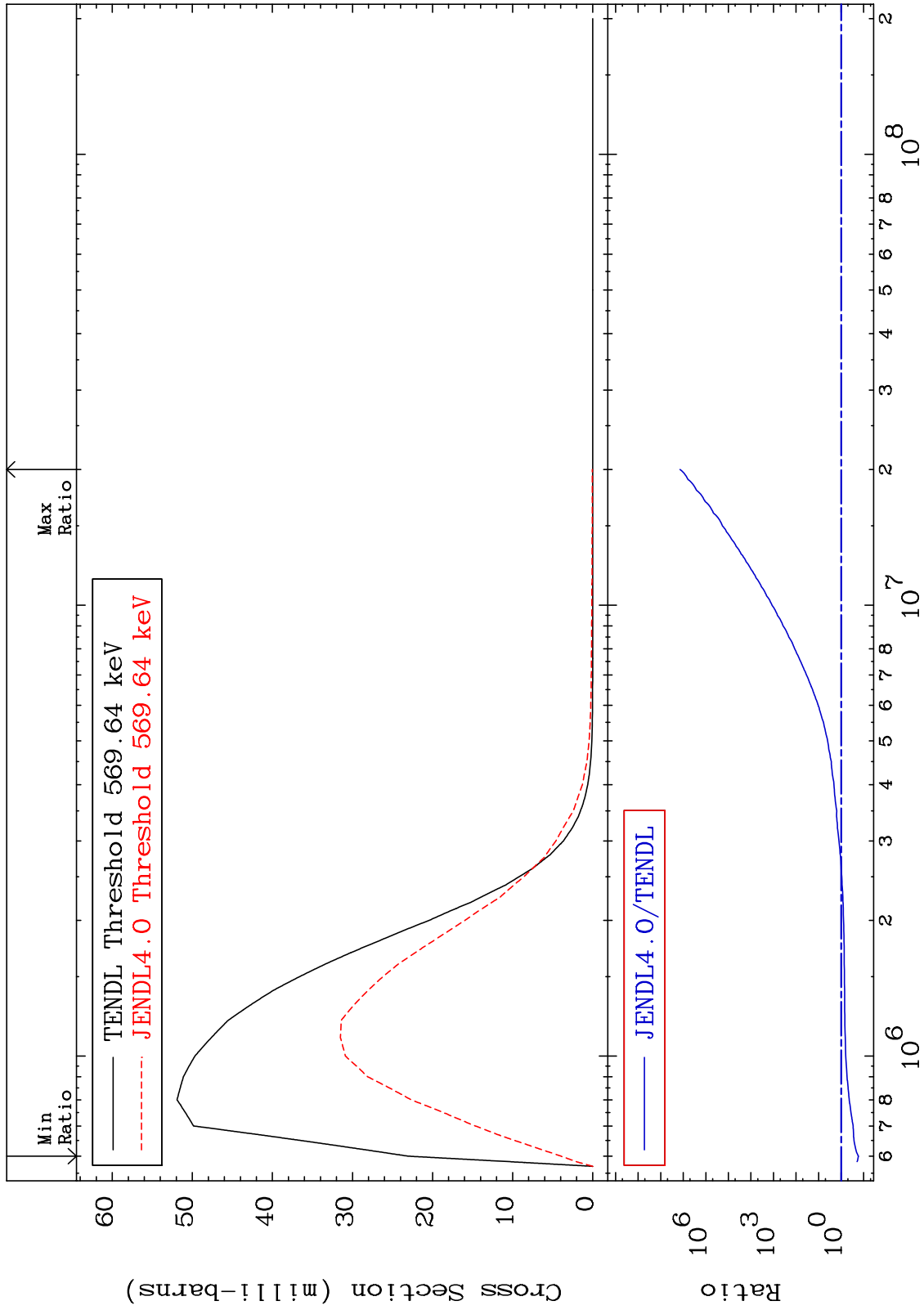
MAT 6440

MT= 68 (n,n') Level  
Cross Section

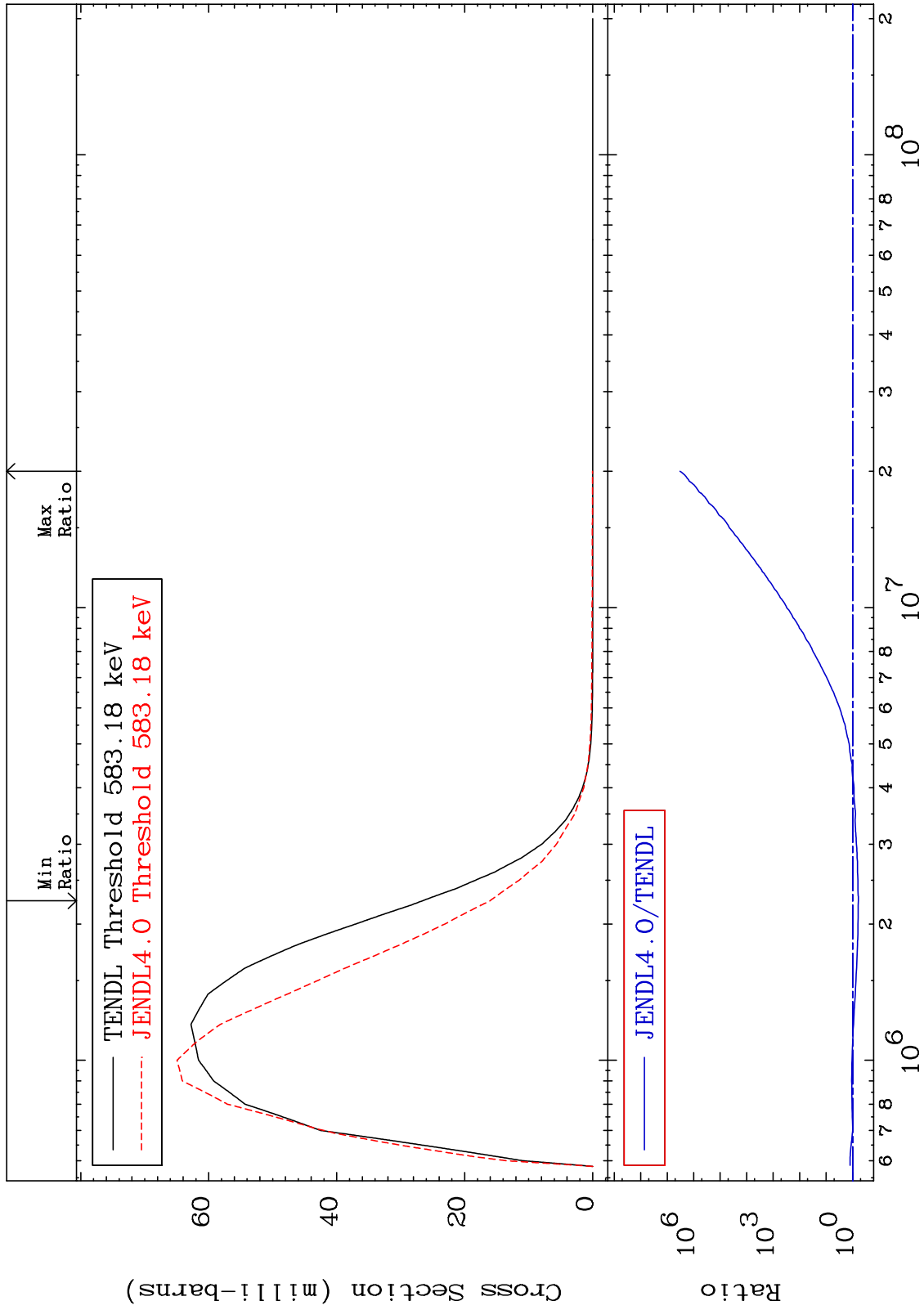
64-Gd-157  
-32.17 To 9999. %



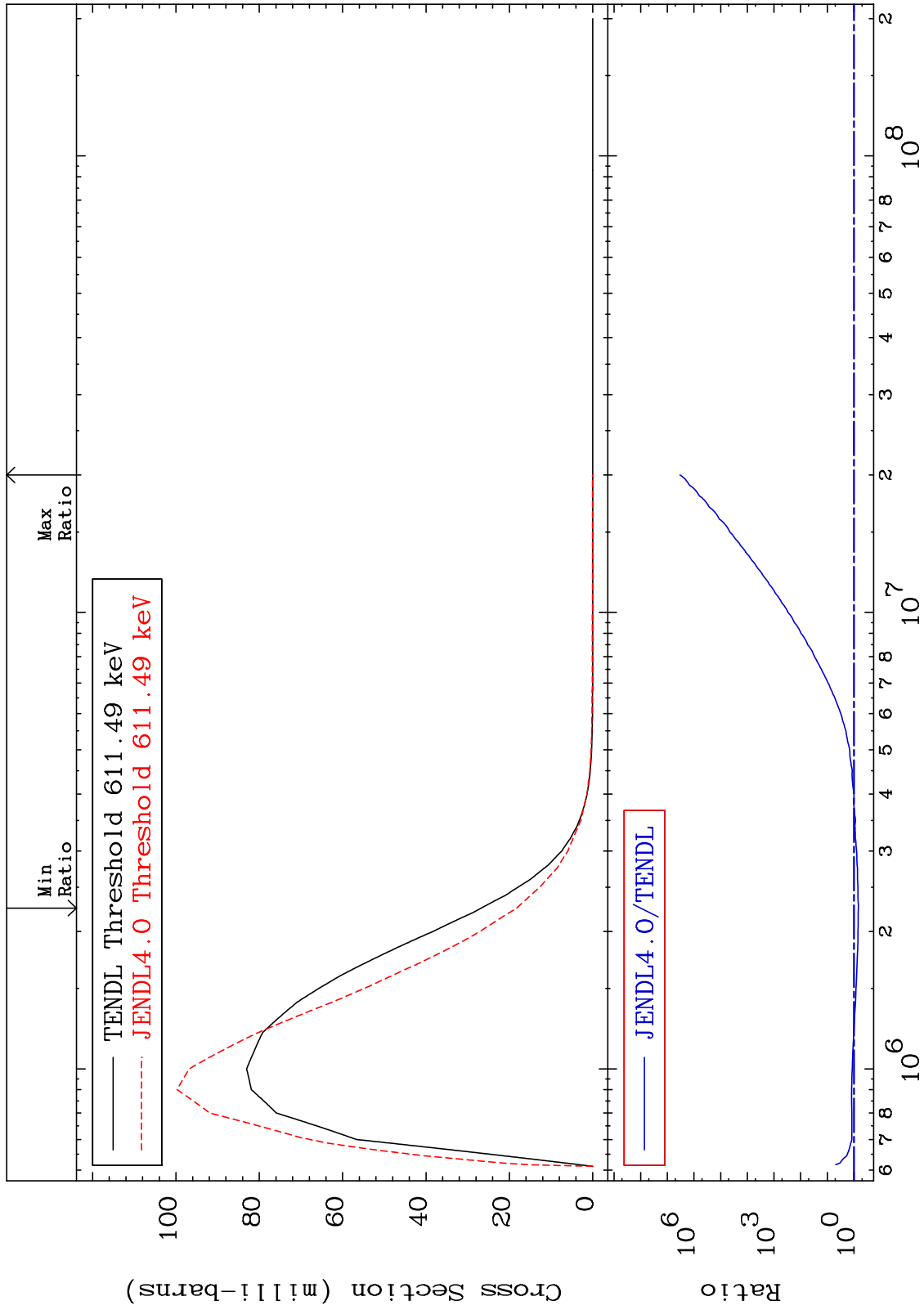
MAT 6440 MT= 69 (n,n') Level Cross Section 64-Gd-157 -82.85 To 9999. %



MAT 6440 MT= 70 (n,n') Level Cross Section 64-Gd-157  
-39.70 To 9999. %

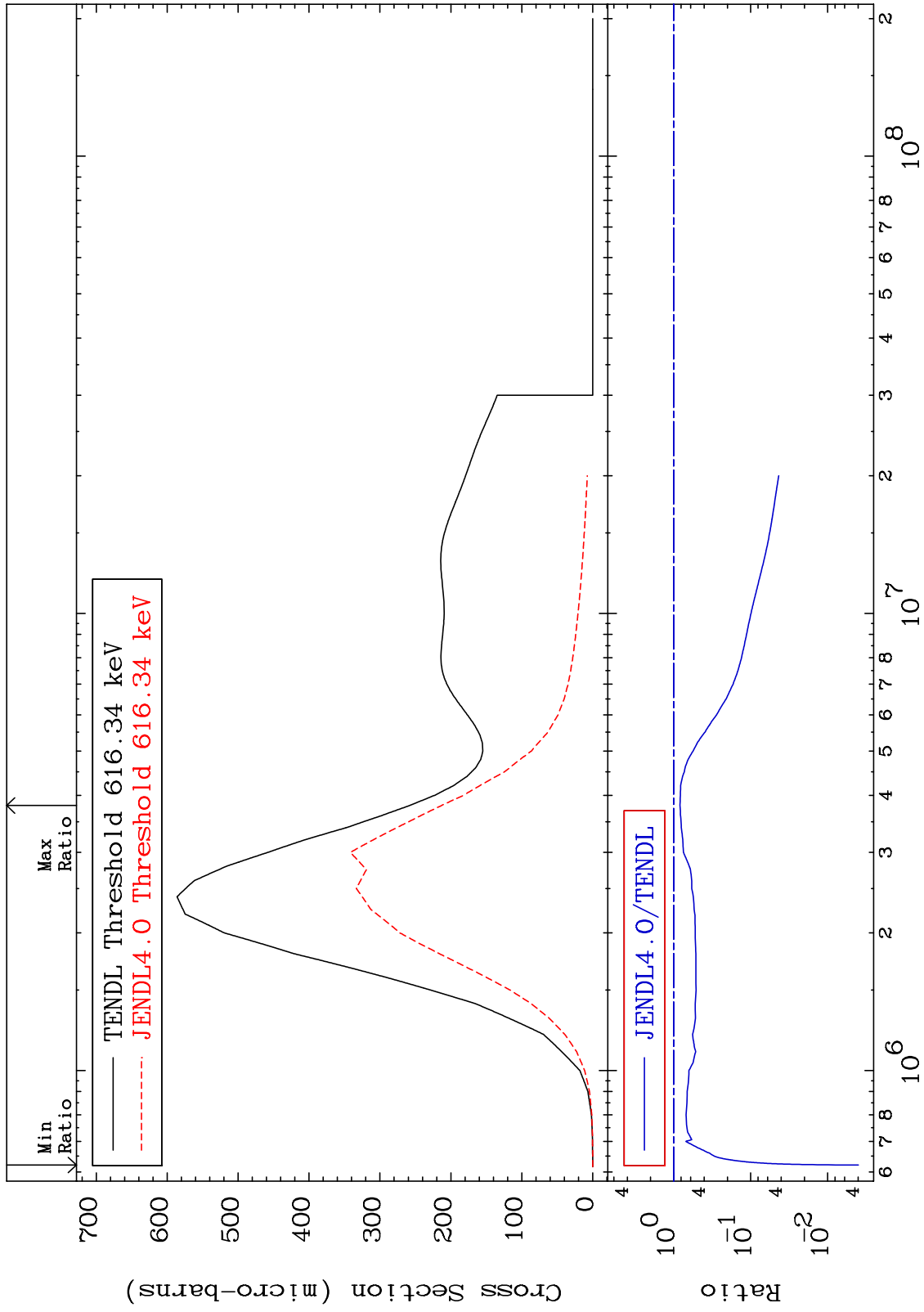


MAT 6440 MT= 71 (n,n') Level Cross Section 64-Gd-157  
 -31.92 To 9999. %



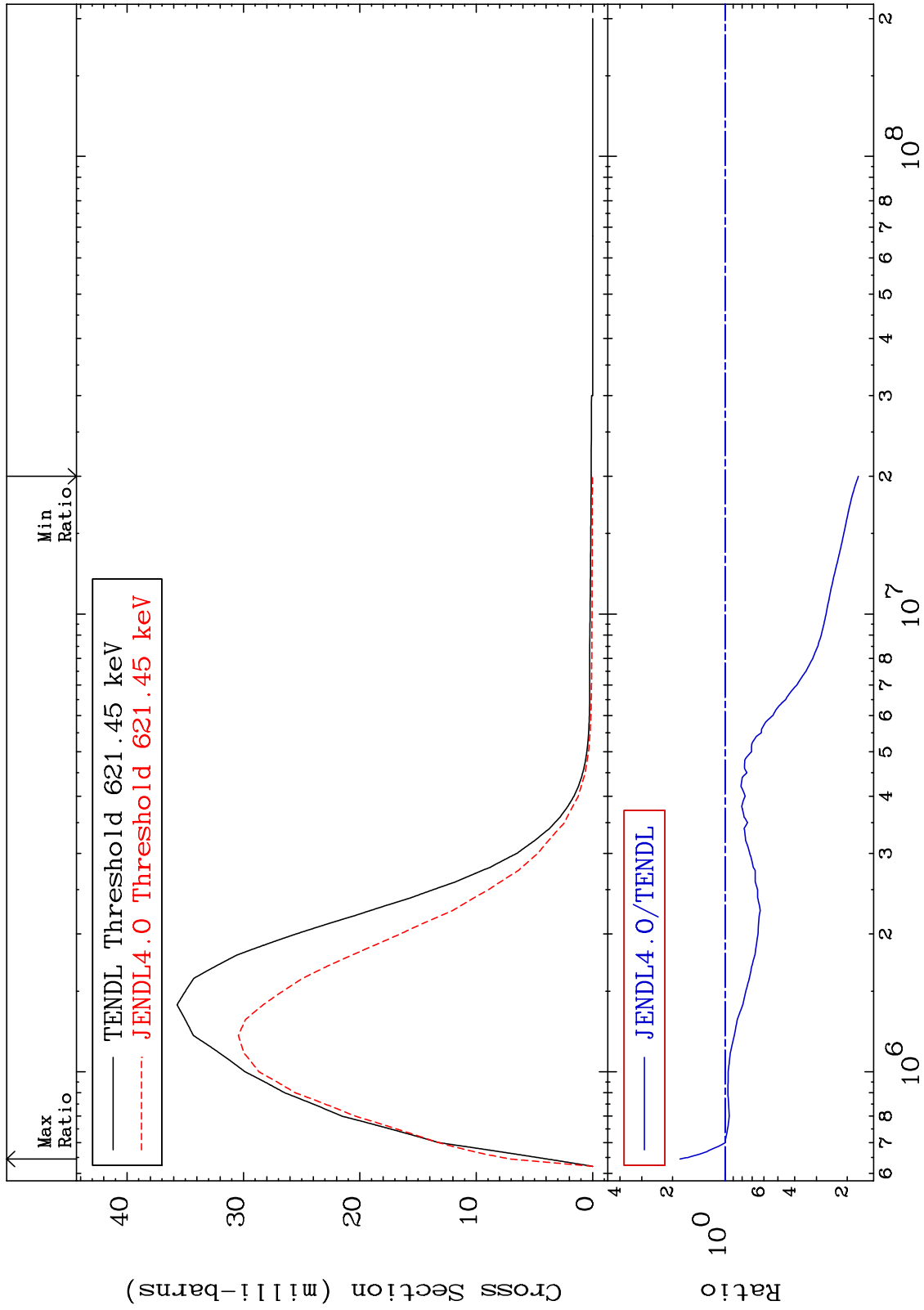


MAT 6440 MT= 72 (n,n') Level  
 Cross Section 64-Gd-157  
 -99.60 To -17.36%



64-Gd-157

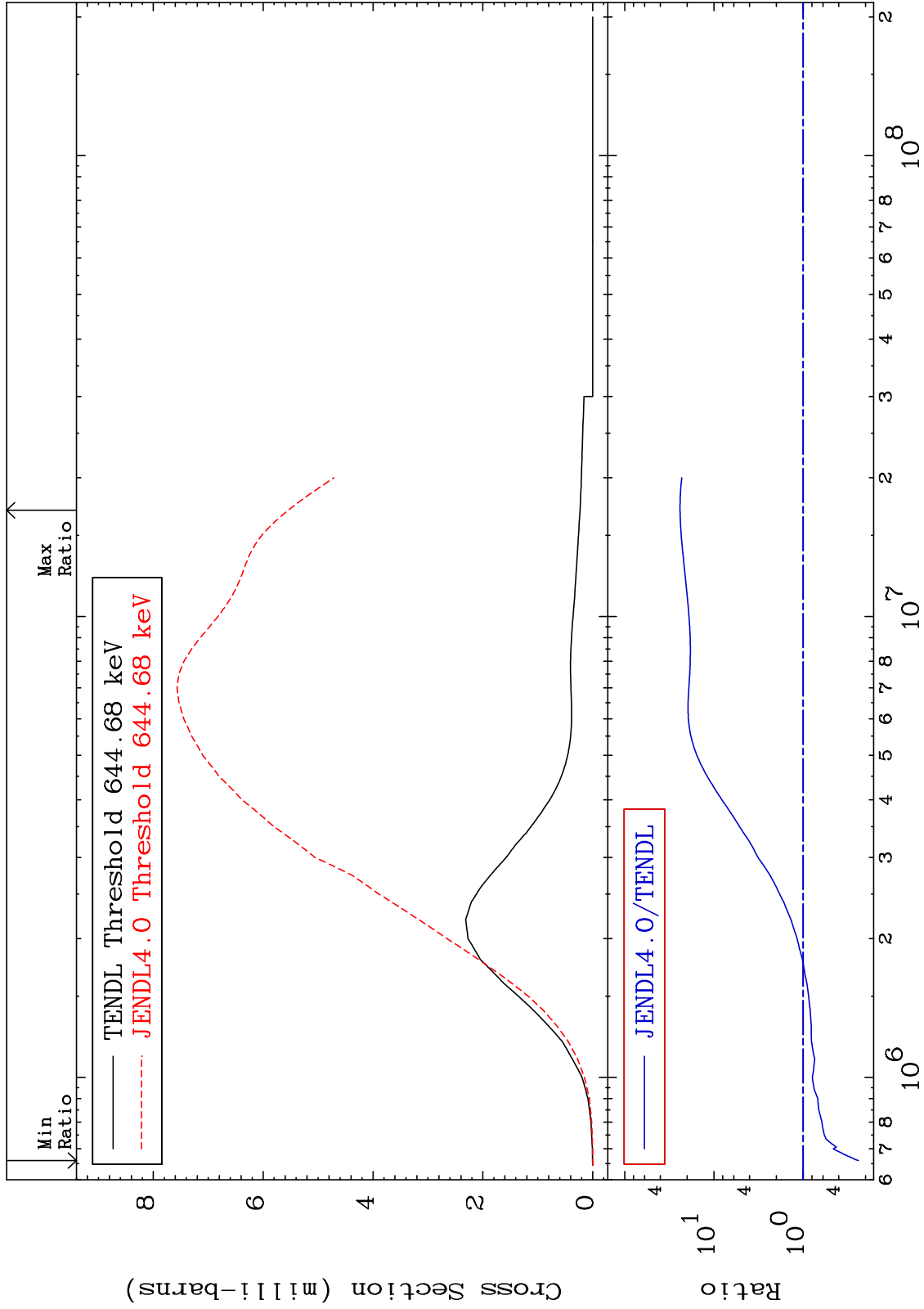
MAT 6440 MT= 73 (n,n') Level Cross Section 64-Gd-157 -82.72 To 81.25 %



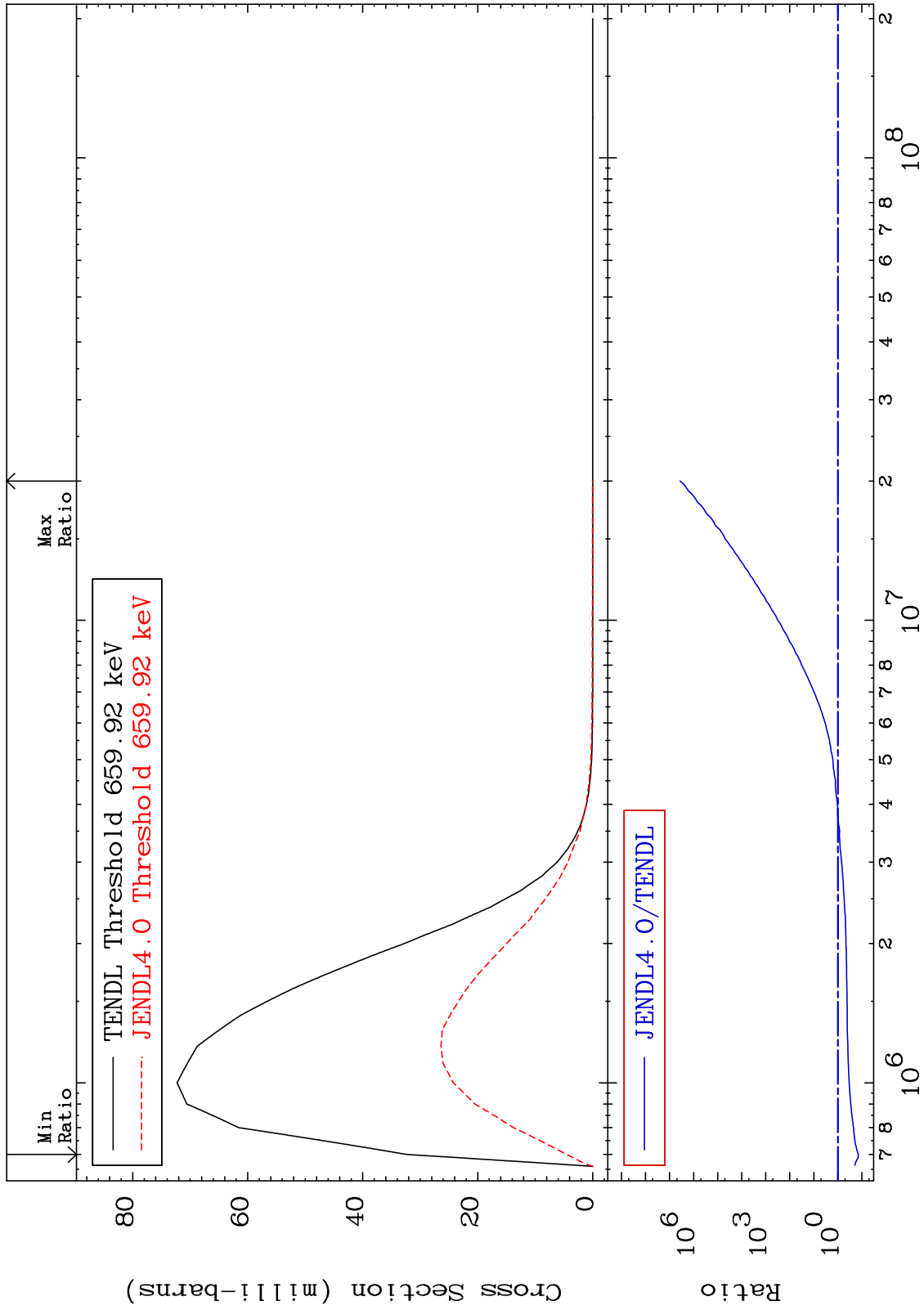
MAT 6440

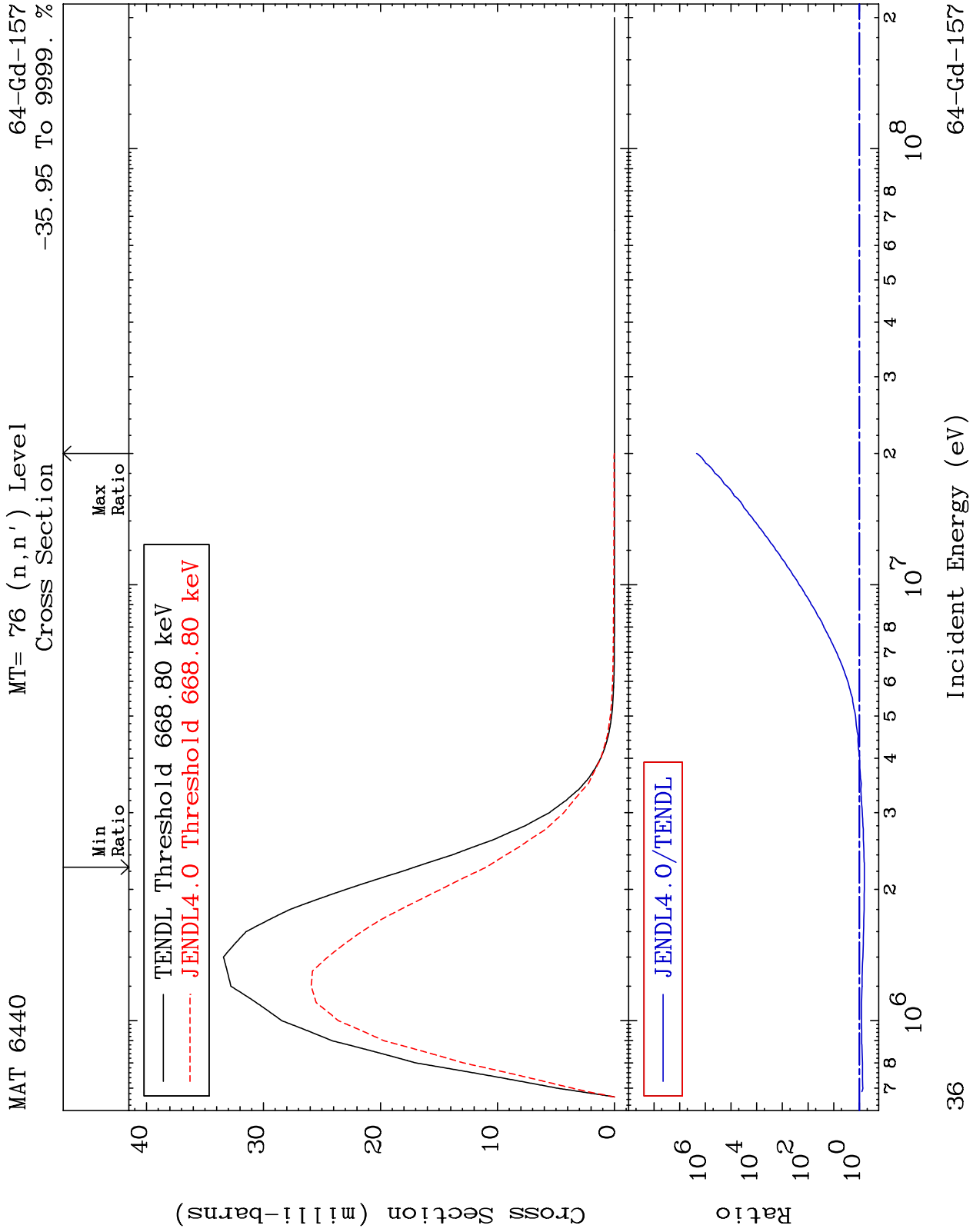
MT= 74 (n,n') Level  
Cross Section

64-Gd-157  
-75.97 To 2302. %

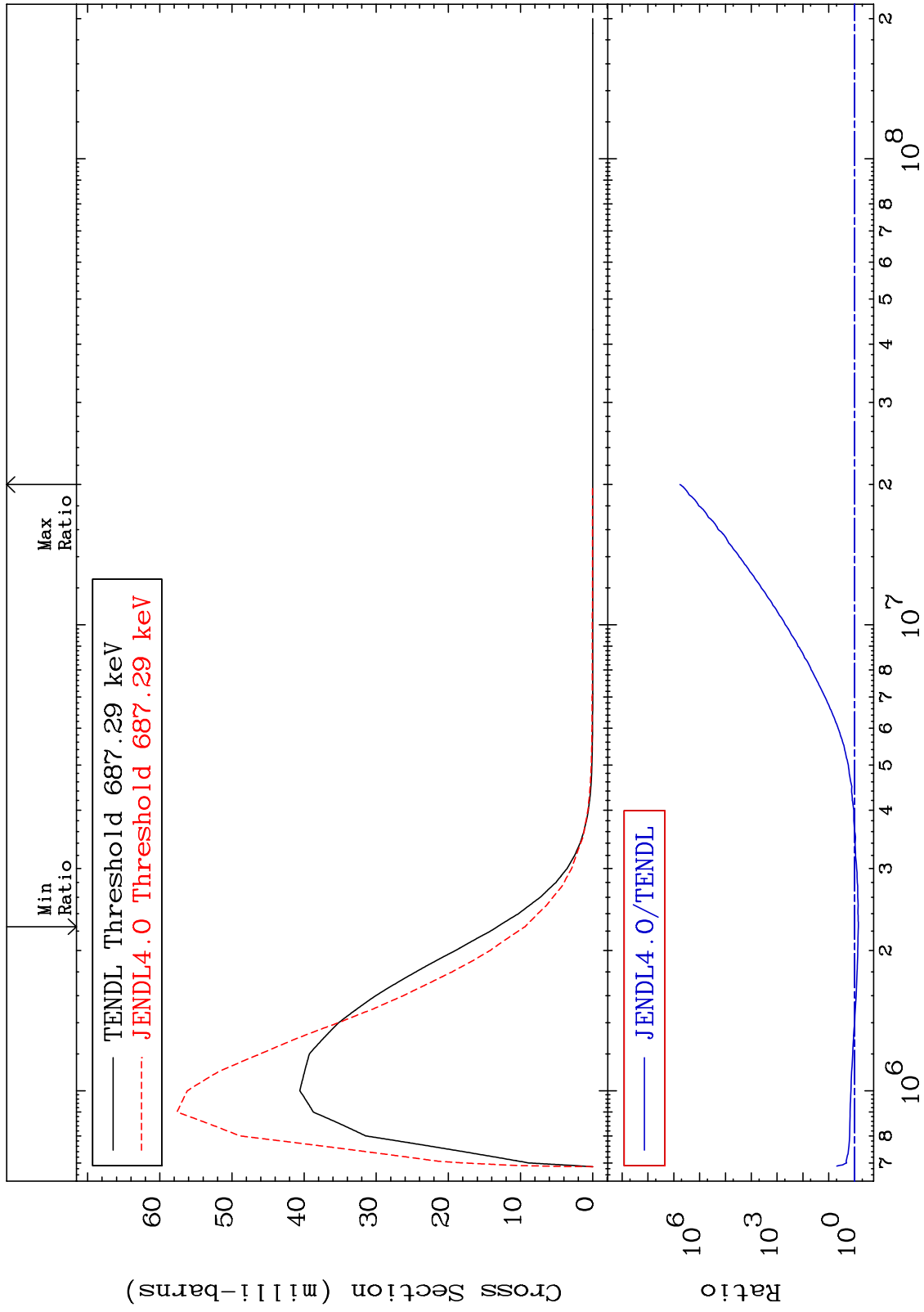


MAT 6440 MT= 75 (n,n') Level Cross Section 64-Gd-157  
 -86.06 To 9999. %





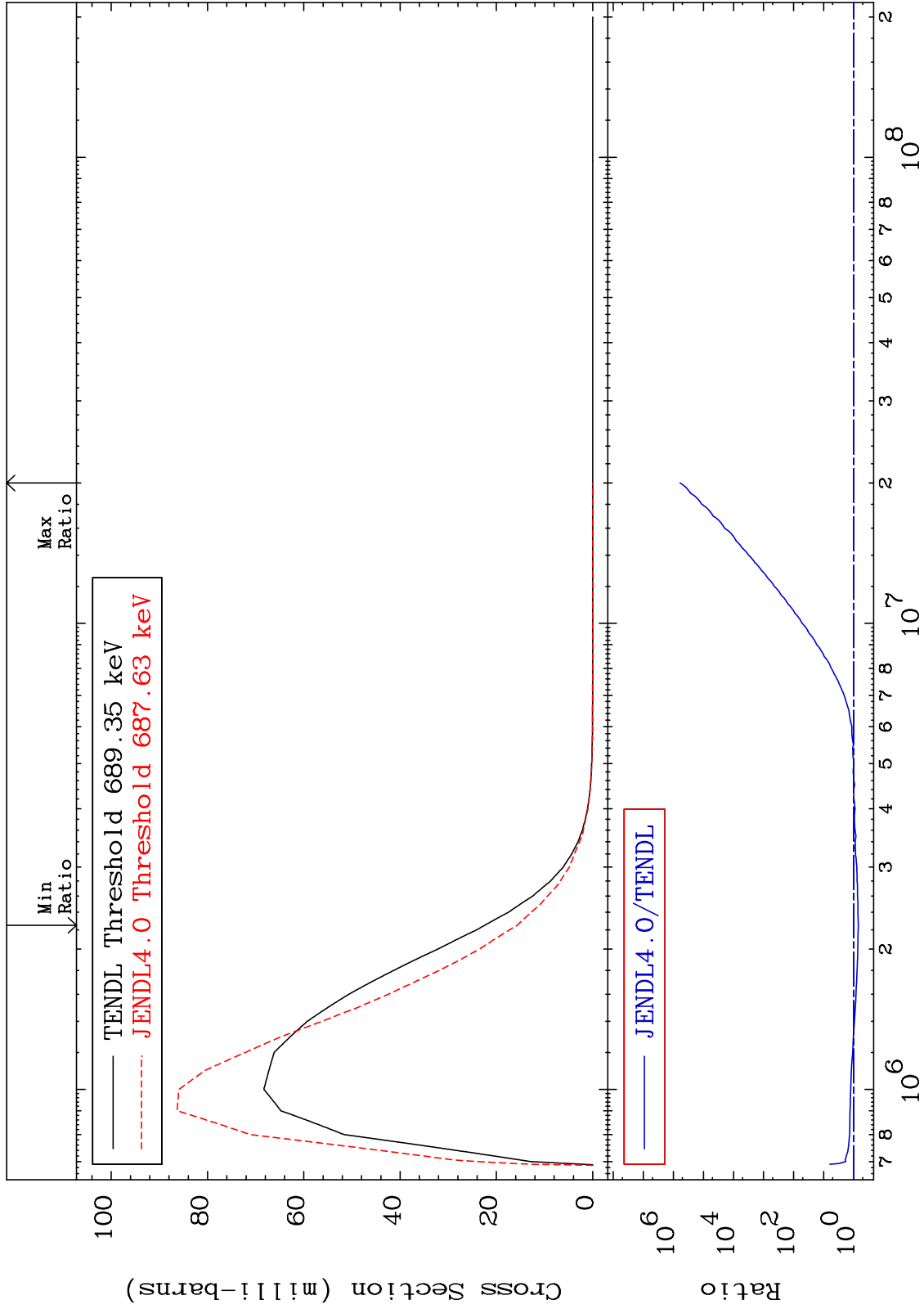
MAT 6440 MT= 77 (n,n') Level Cross Section 64-Gd-157  
-29.07 To 9999. %



MAT 6440

MT= 78 (n,n') Level  
Cross Section

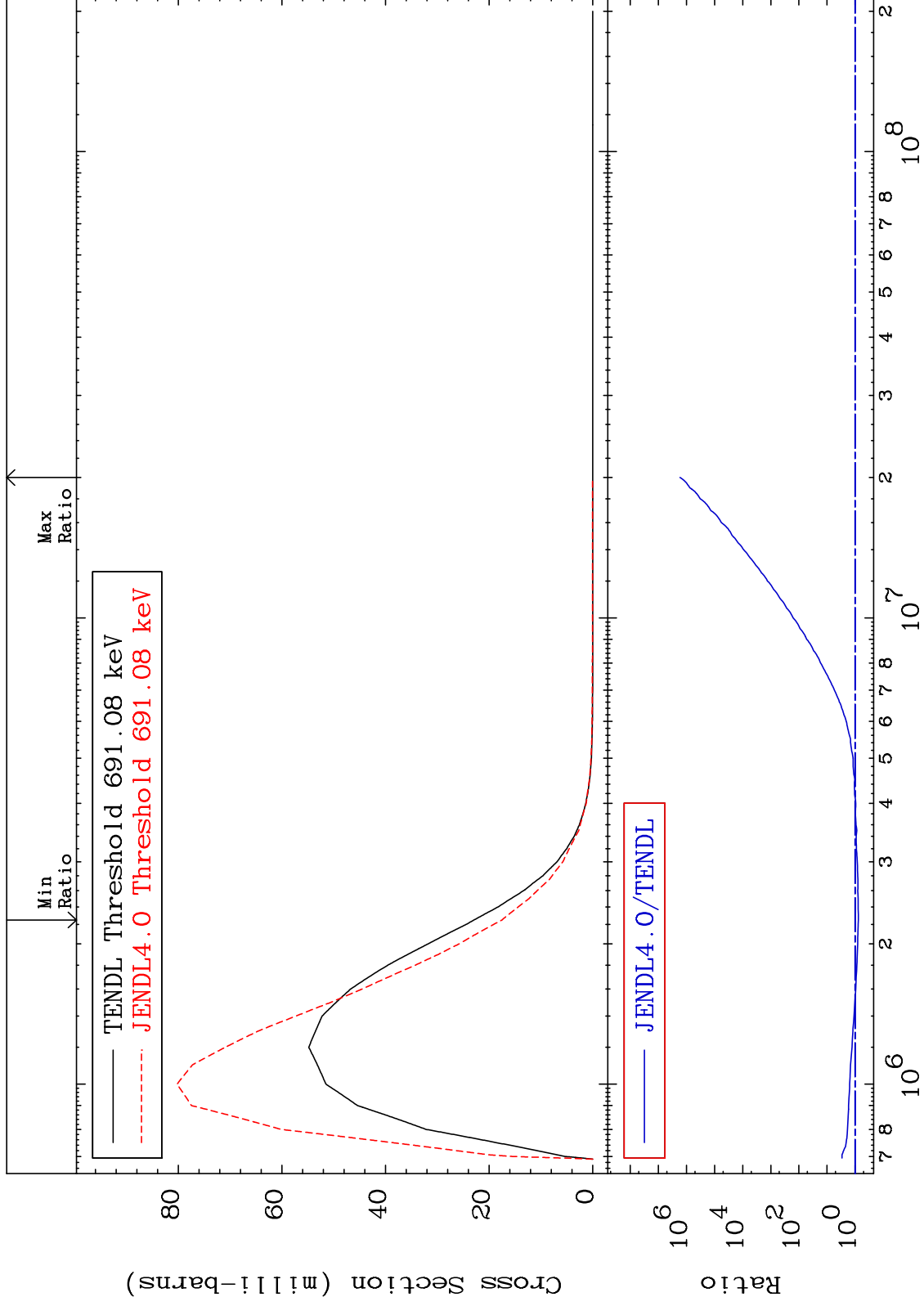
64-Gd-157  
-30.15 To 9999. %



MAT 6440

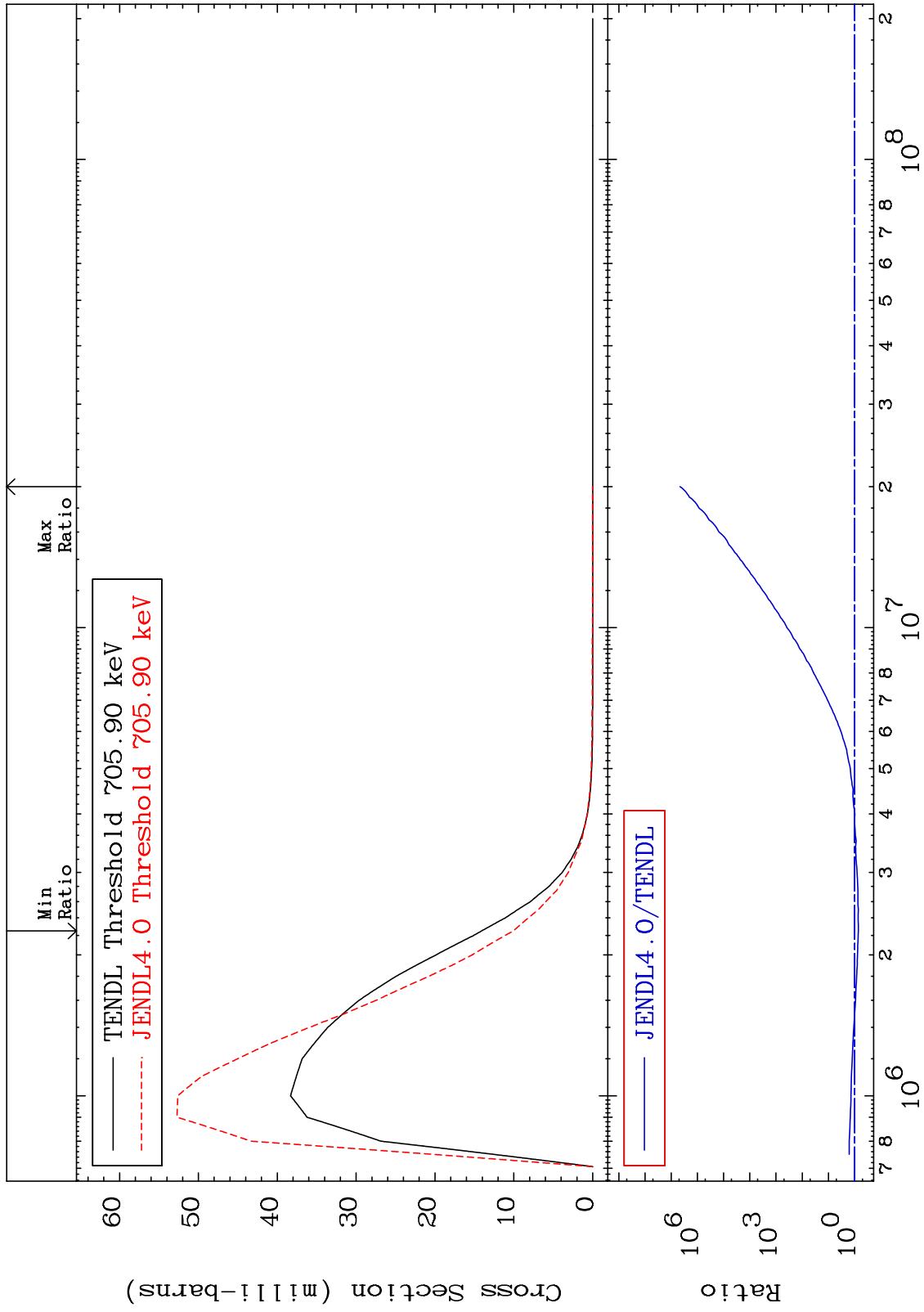
MT= 79 (n,n') Level  
Cross Section

64-Gd-157  
-23.47 To 9999. %





MAT 6440      MT= 80 (n,n') Level      64-Gd-157  
Cross Section      -28.50 To 9999. %

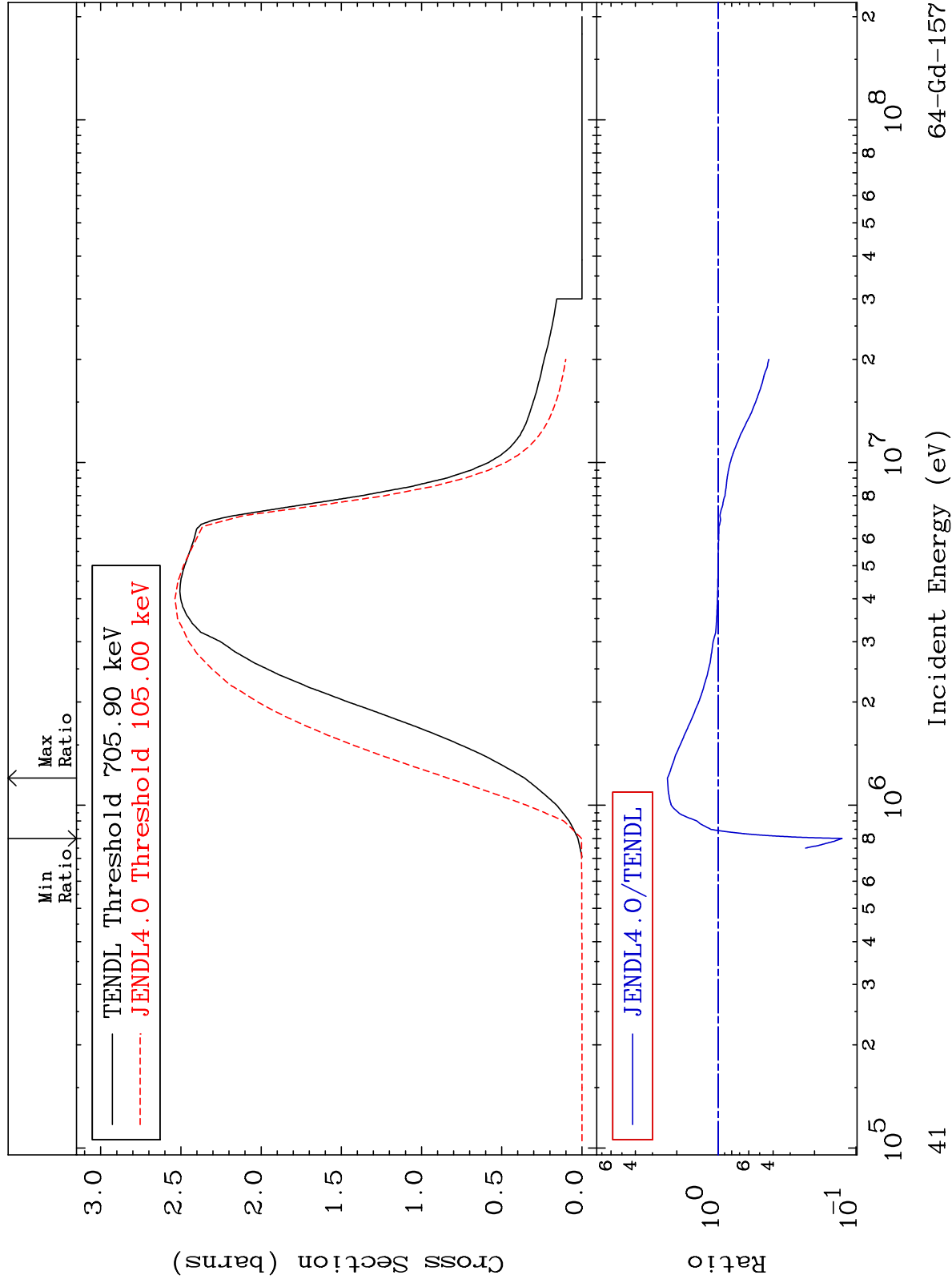


40      64-Gd-157

MAT 6440

(n, n') Continuum  
Cross Section

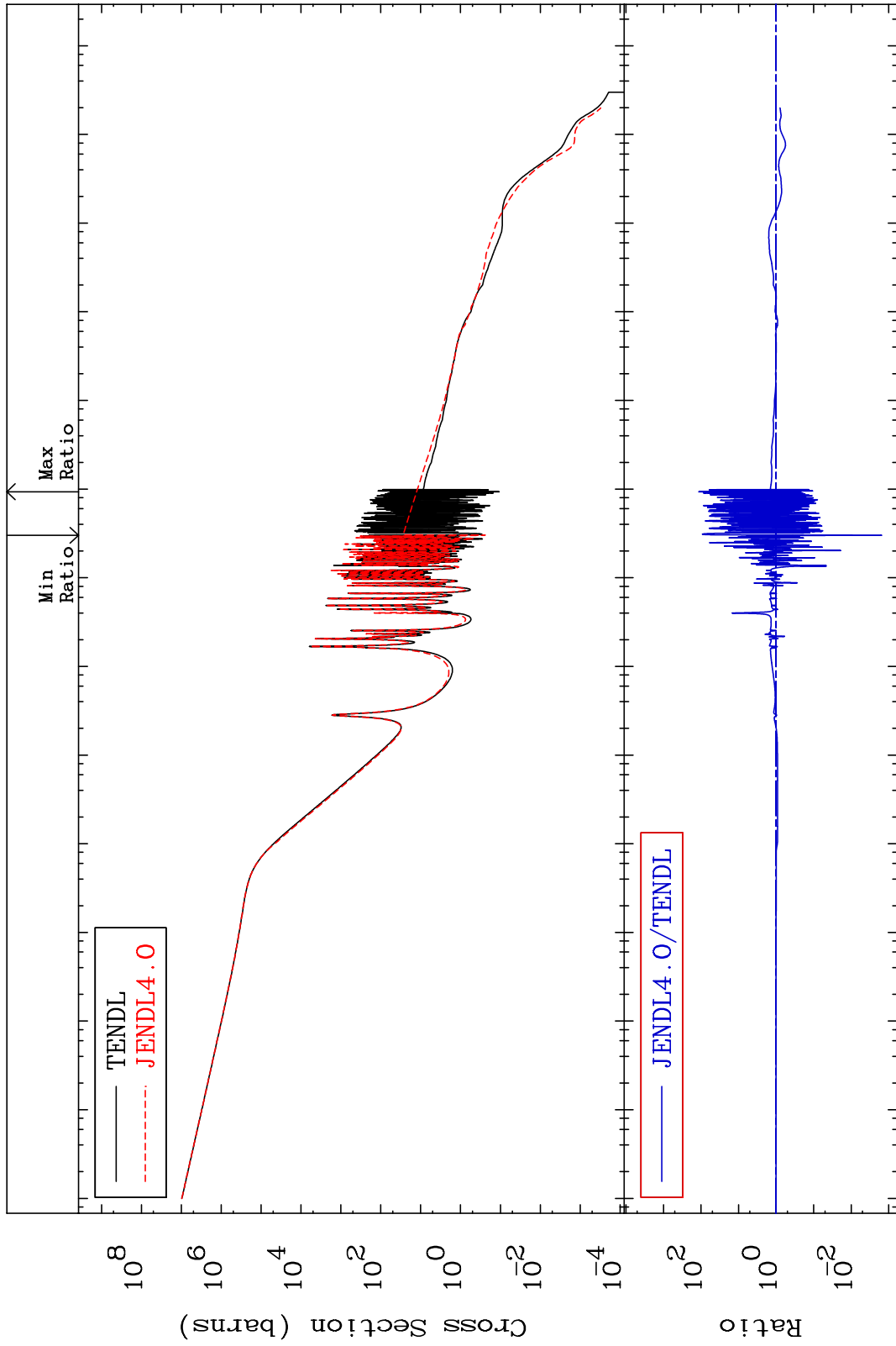
64-Gd-157  
-87.39 To 133.6 %



MAT 6440

(n,  $\gamma$ )  
Cross Section

64-Gd-157  
-99.84 To 9999. %

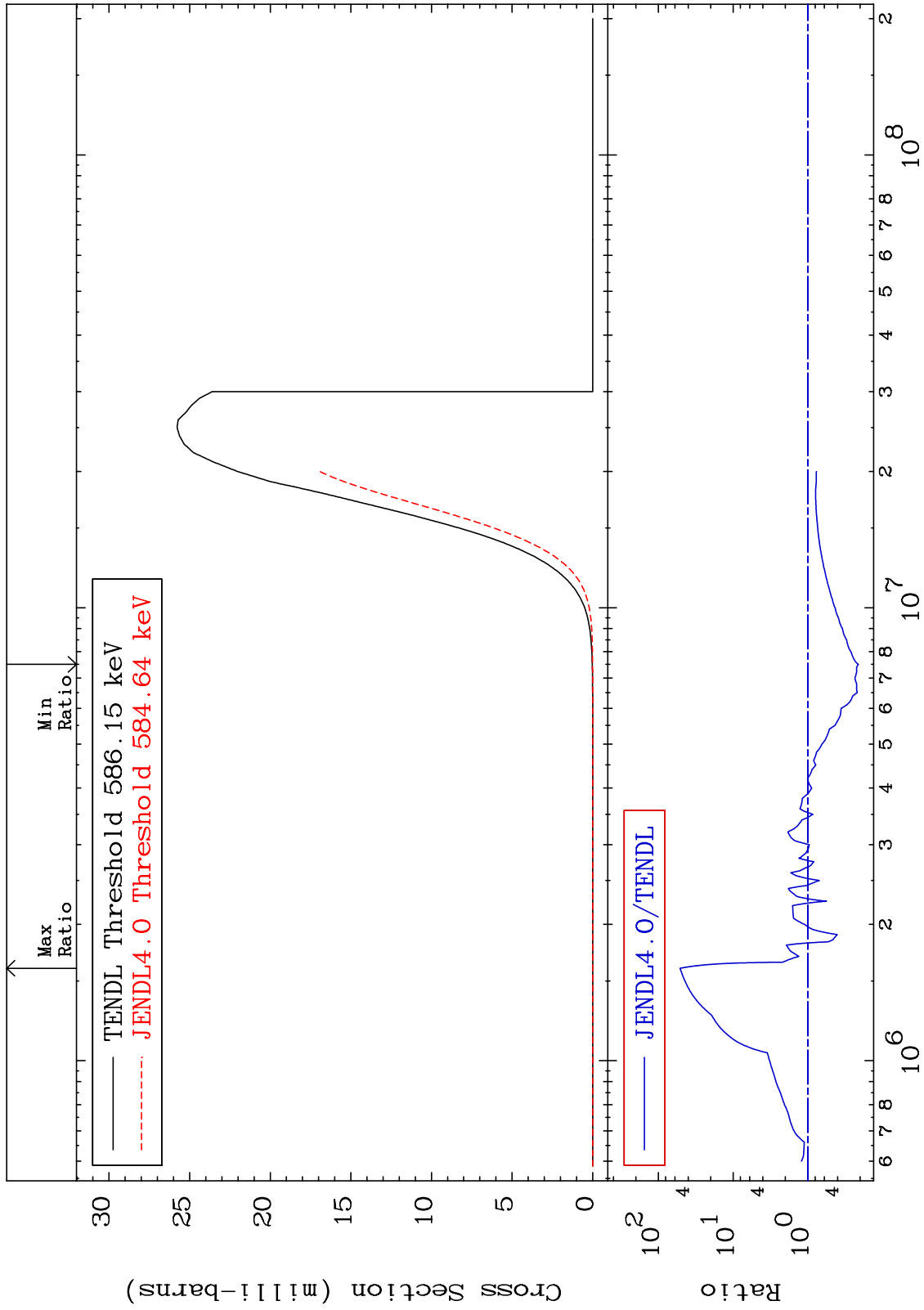


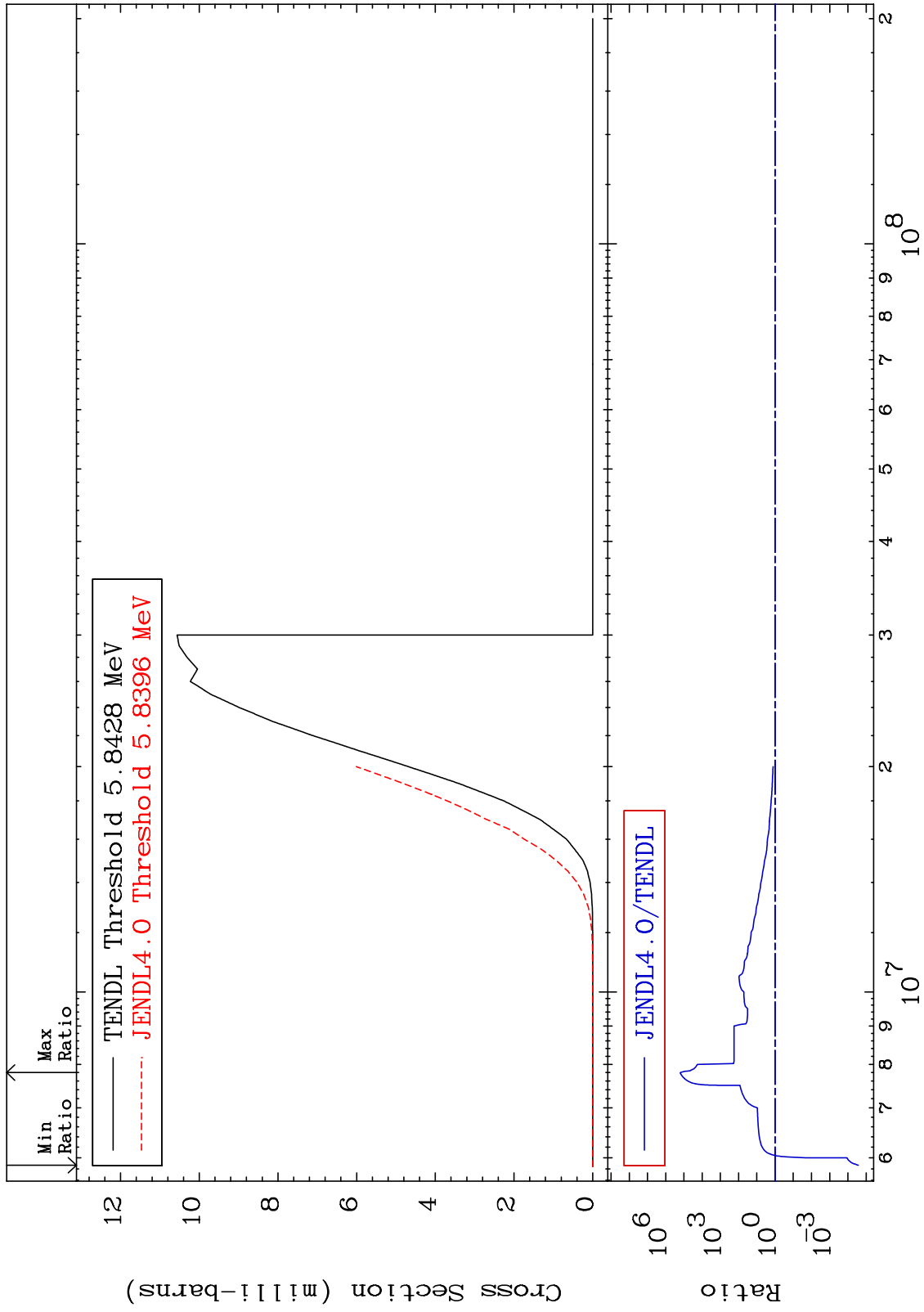
42

Incident Energy (eV)

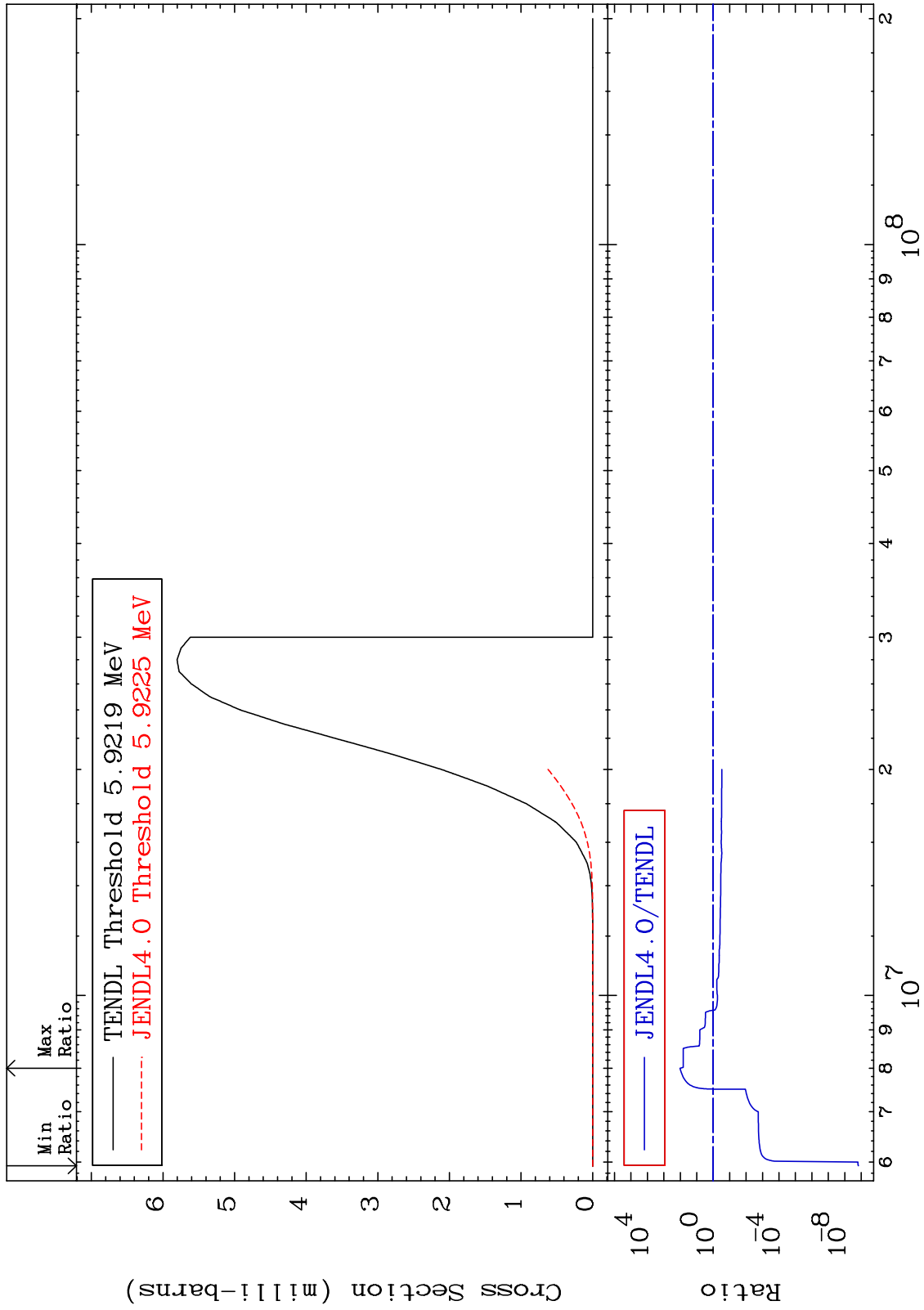
64-Gd-157

MAT 6440 (n,p) Cross Section 64-Gd-157 -78.94 To 5038. %





MAT 6440 (n, t) Cross Section 64-Gd-157 -100.0 To 9999. %



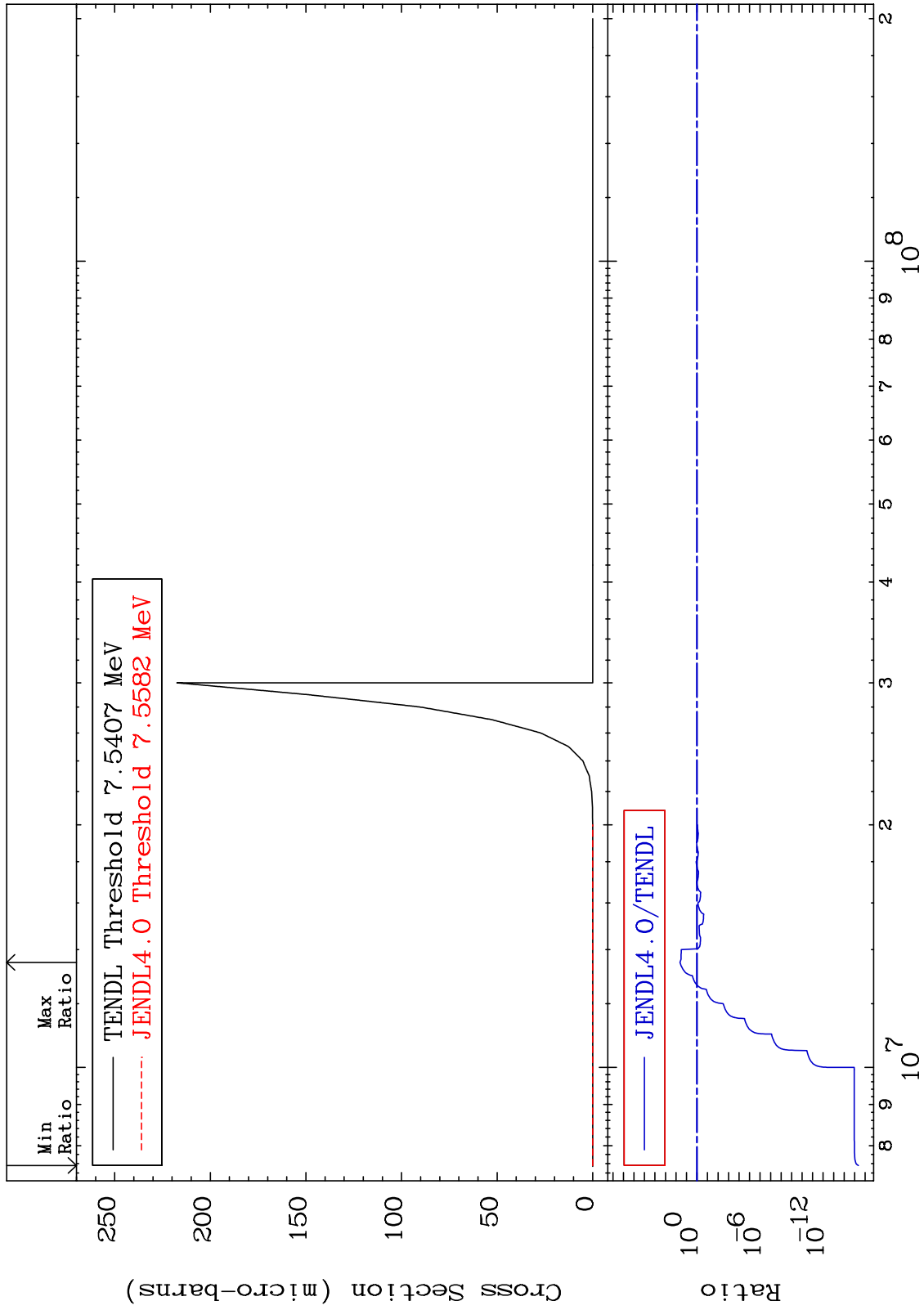
MAT 6440

(n, He-3)

64-Gd-157

Cross Section

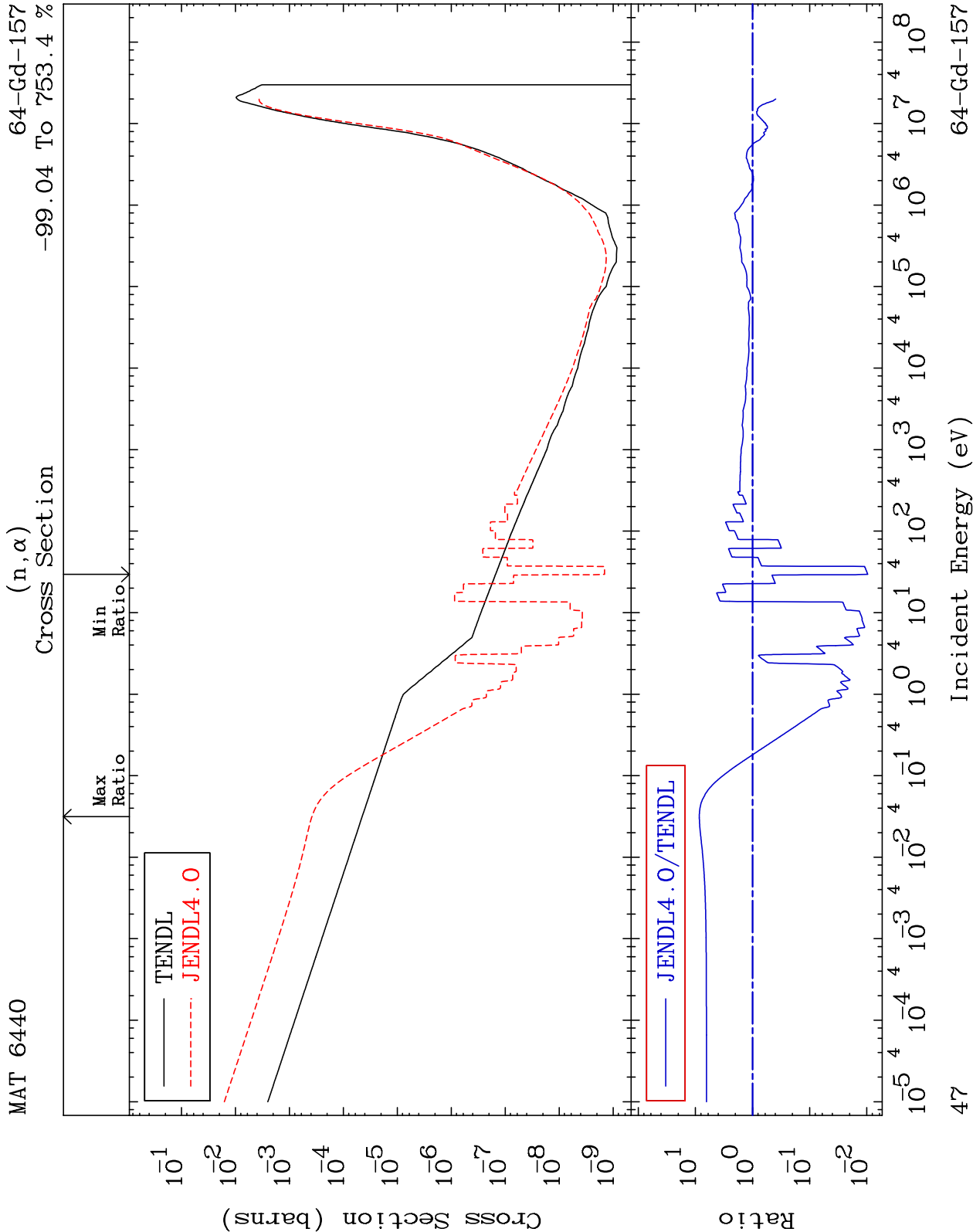
-100.0 To 4031. %



46

Incident Energy (eV)

64-Gd-157

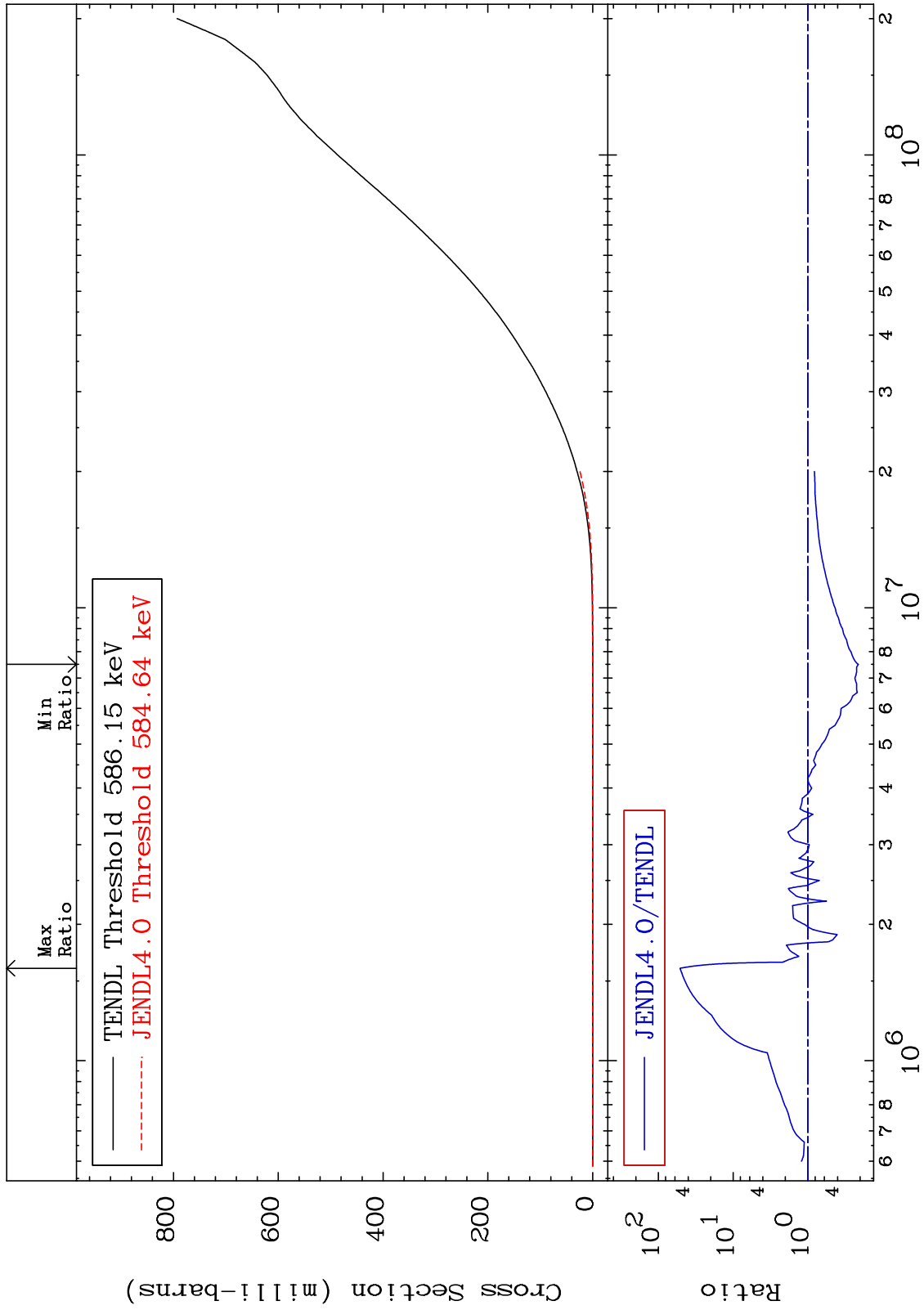




MAT 6440

### Hydrogen Production Cross Section

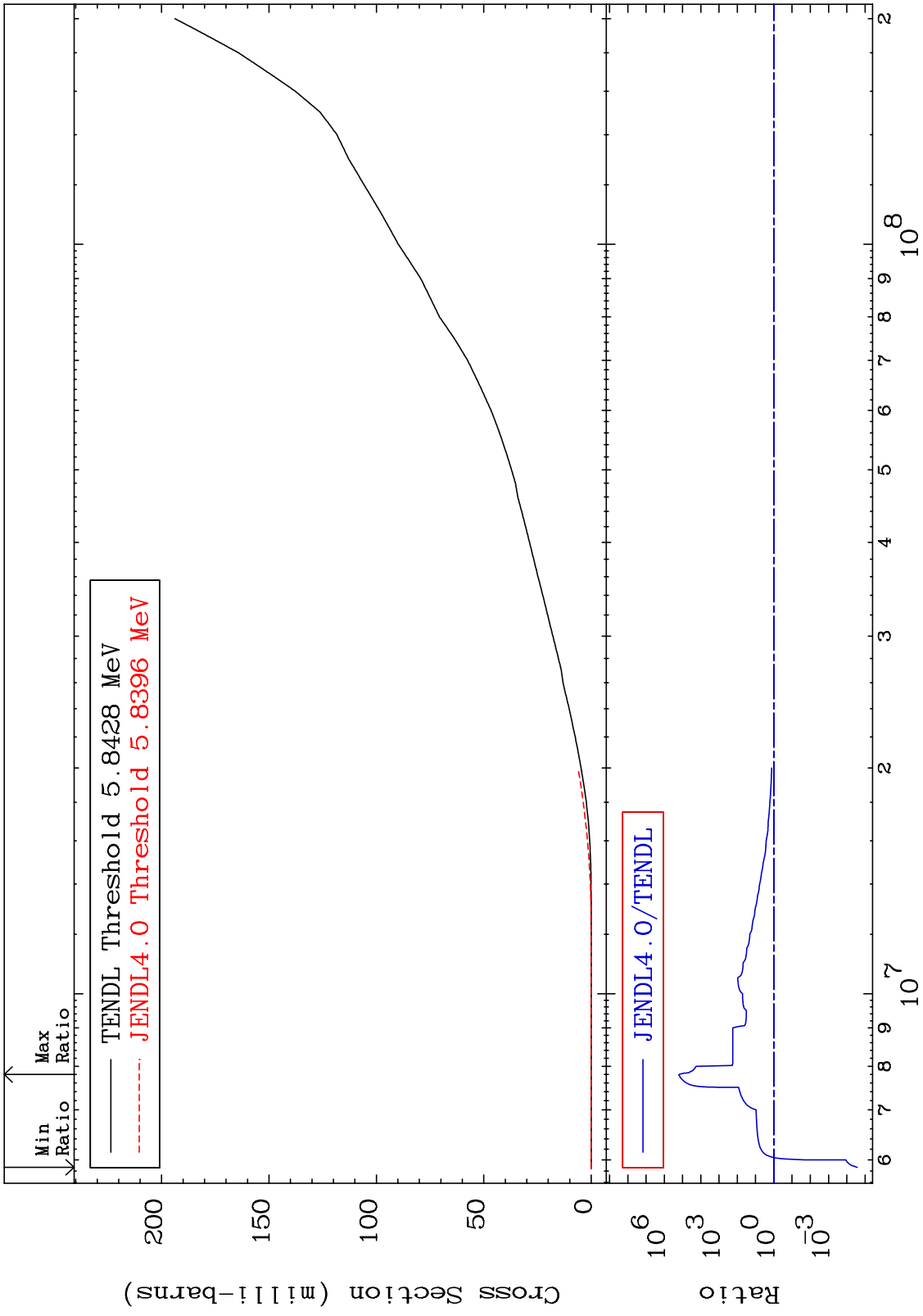
64-Gd-157  
-78.94 To 5038. %



MAT 6440

Deuterium Production  
Cross Section

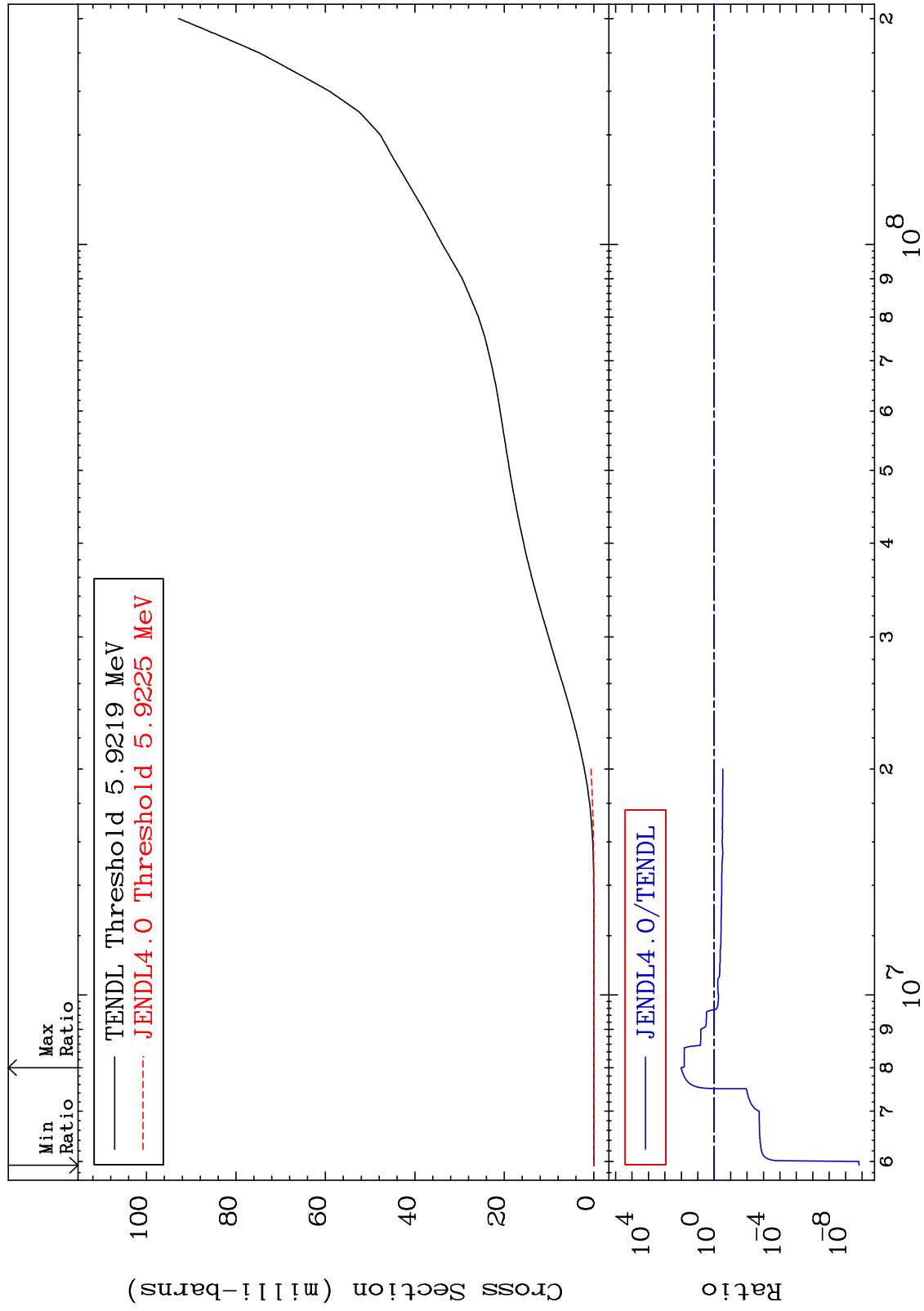
64-Gd-157  
-100.0 To 9999. %



MAT 6440

Tritium Production  
Cross Section

64-Gd-157  
-100.0 To 9999. %



50

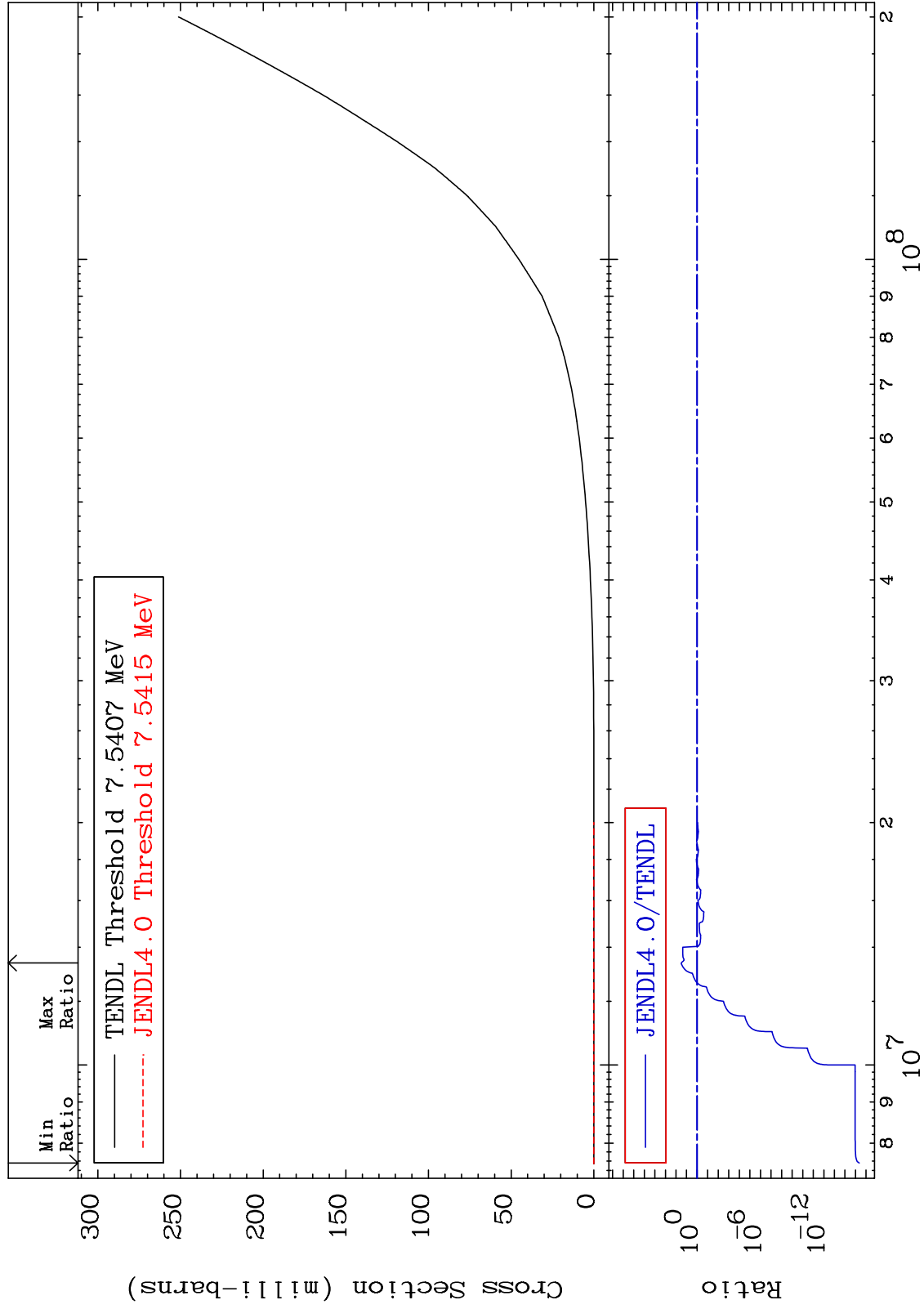
Incident Energy (eV)

64-Gd-157

MAT 6440

He-3 Production  
Cross Section

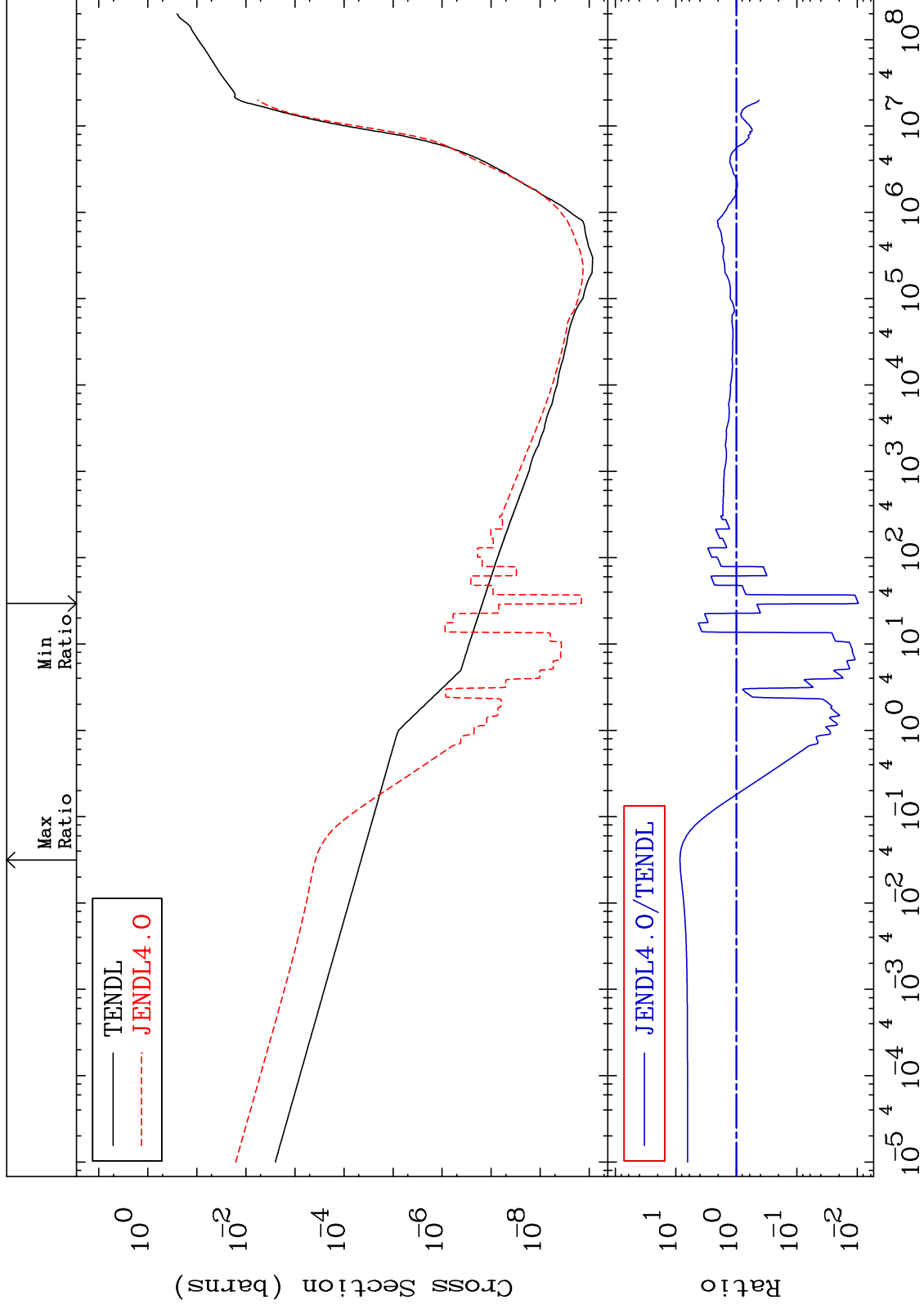
64-Gd-157  
-100.0 To 3204. %



MAT 6440

He-4 Production  
Cross Section

64-Gd-157  
-99.04 To 753.4 %

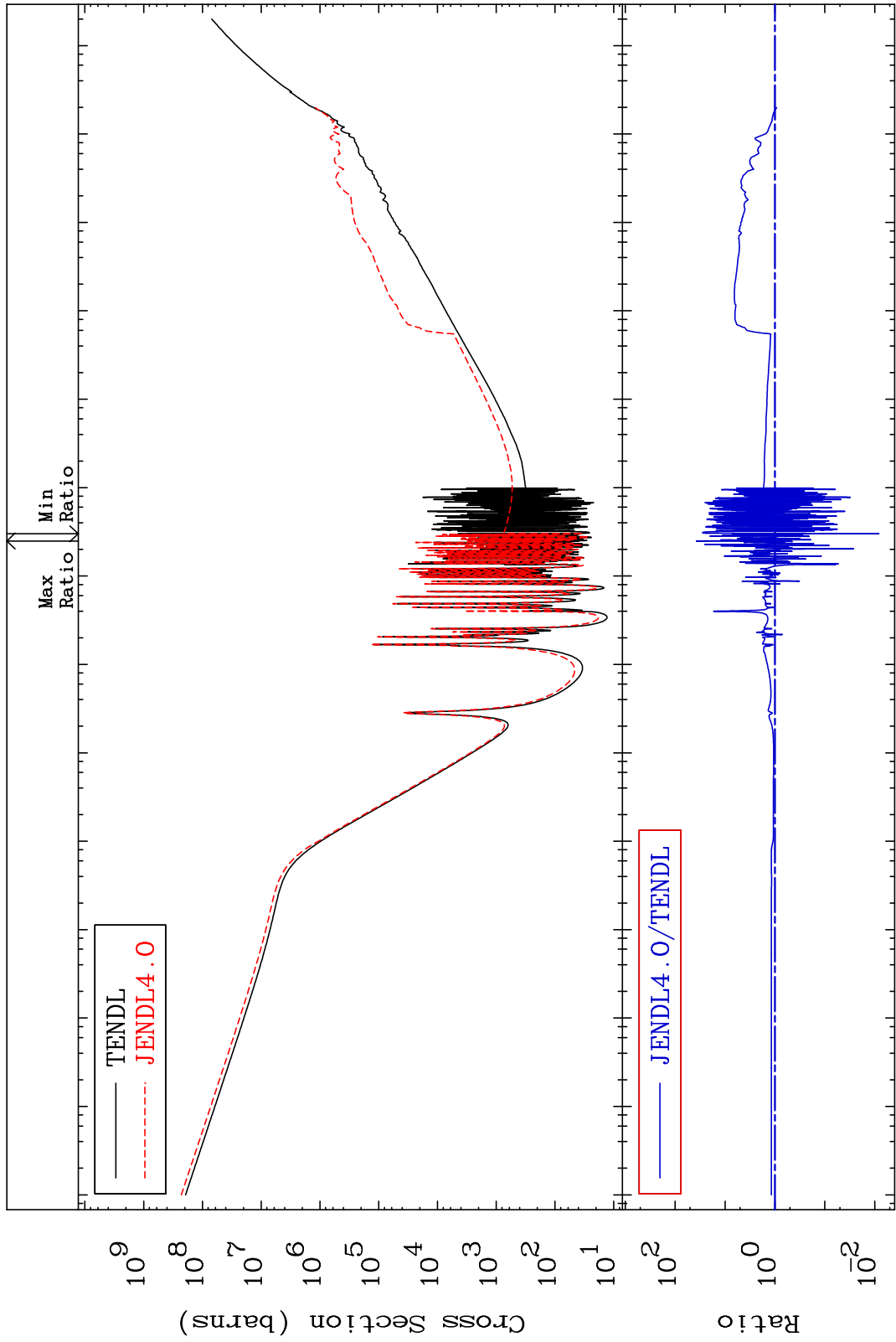


52

Incident Energy (eV)

64-Gd-157

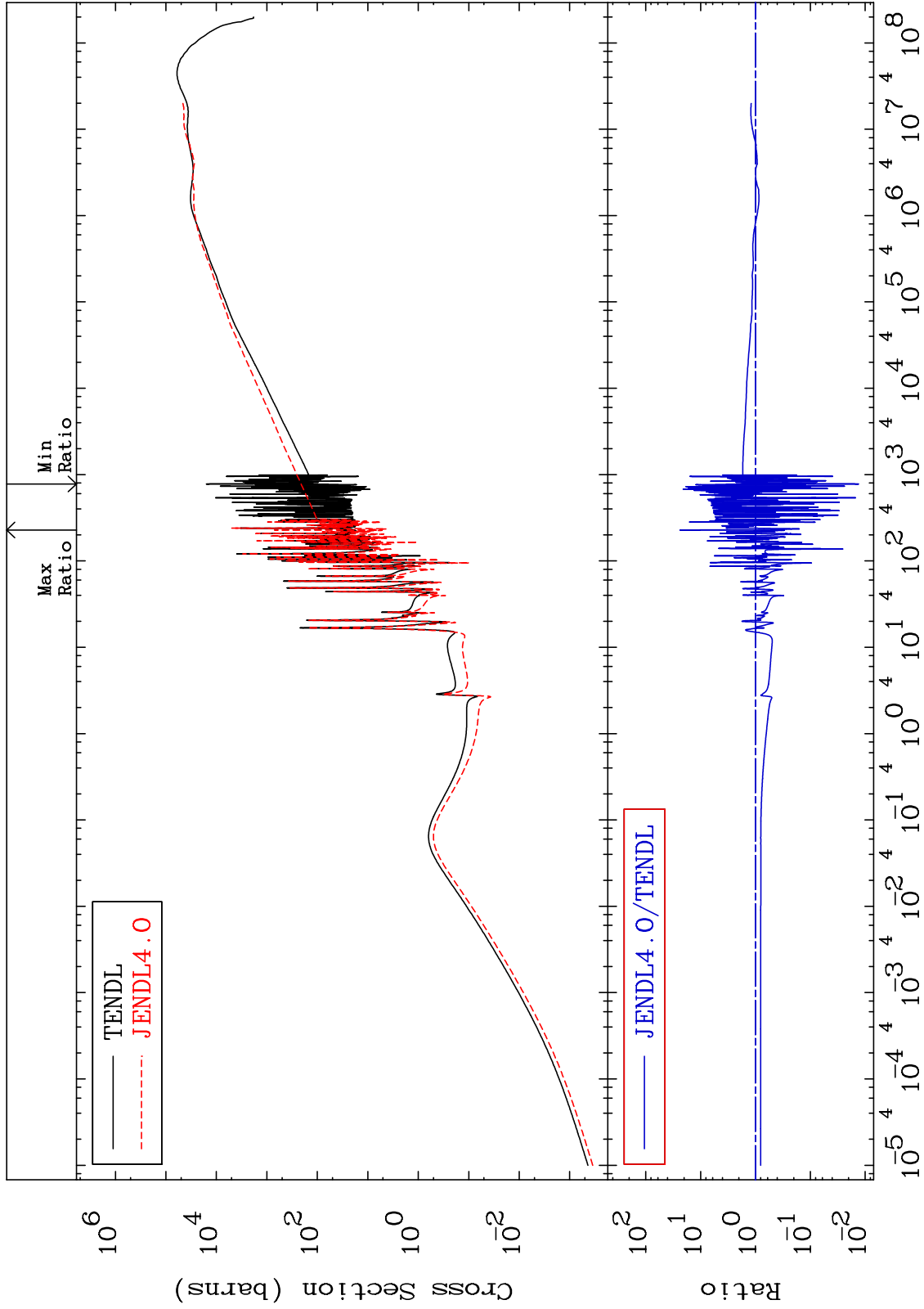
MAT 6440 Kerma total (eV-barns) 64-Gd-157  
Cross Section -99.18 To 3653. %



MAT 6440

Kerma elastic  
Cross Section

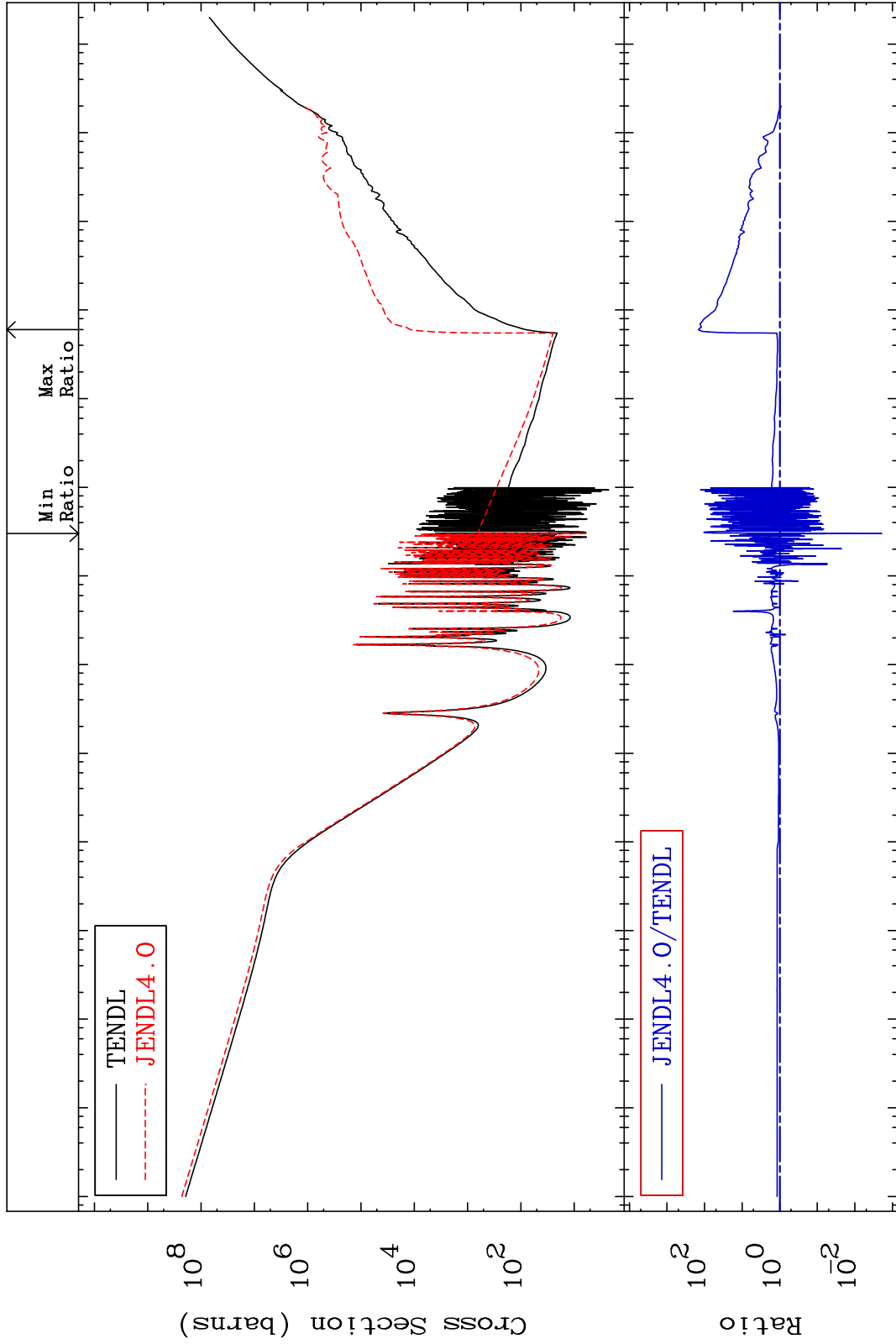
64-Gd-157  
-98.67 To 2271. %



MAT 6440

Kerma non-elastic (all but mt2)  
Cross Section

64-Gd-157  
-99.81 To 9999. %



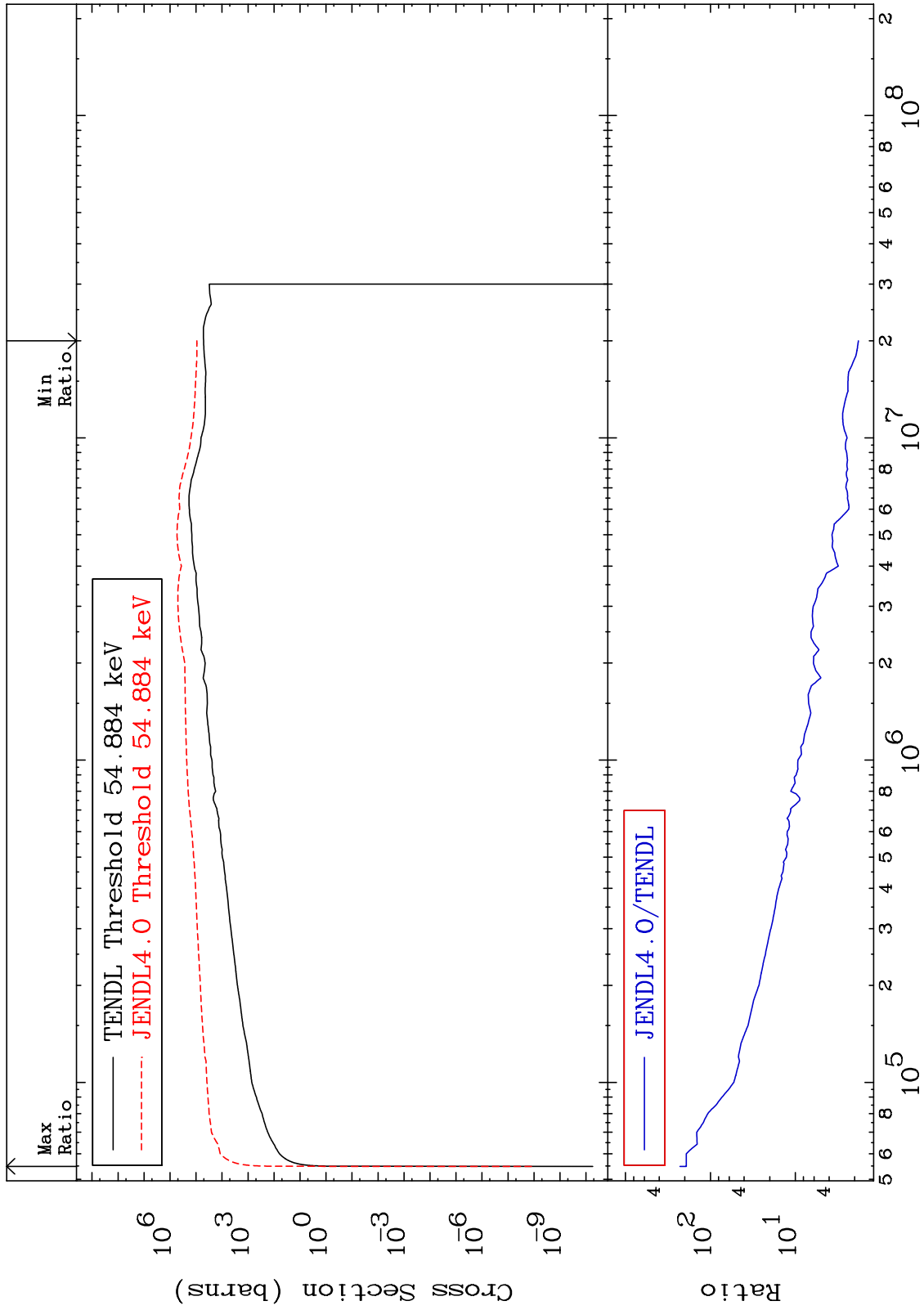
55

Incident Energy (eV)

64-Gd-157



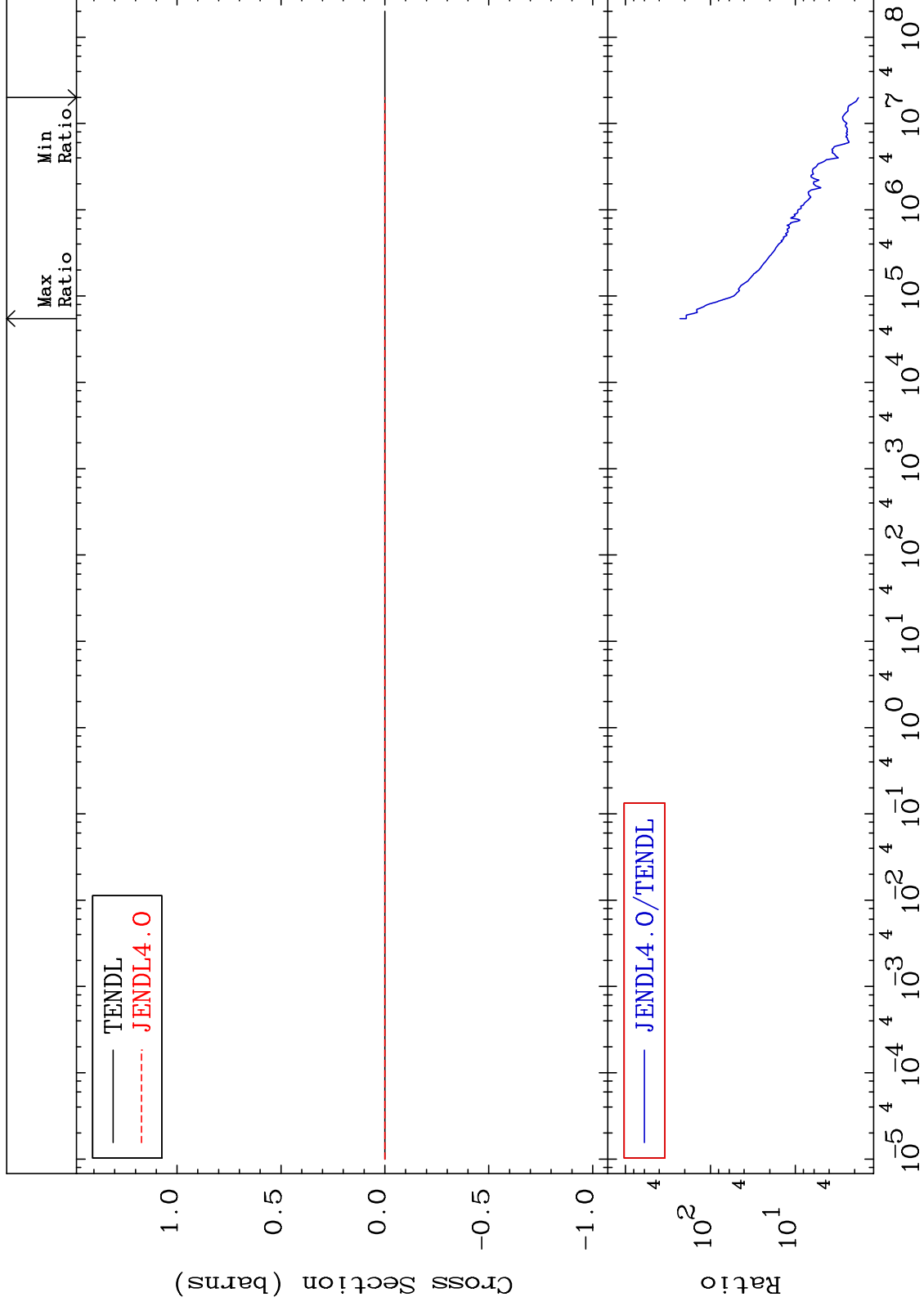
MAT 6440 Kerma inelastic (mt51-91) 64-Gd-157  
 Cross Section 80.30 To 9999. %



MAT 6440

Kerma fission (mt18 or mt19-20-21-38)  
Cross Section

64-Gd-157  
80.30 To 9999. %



57

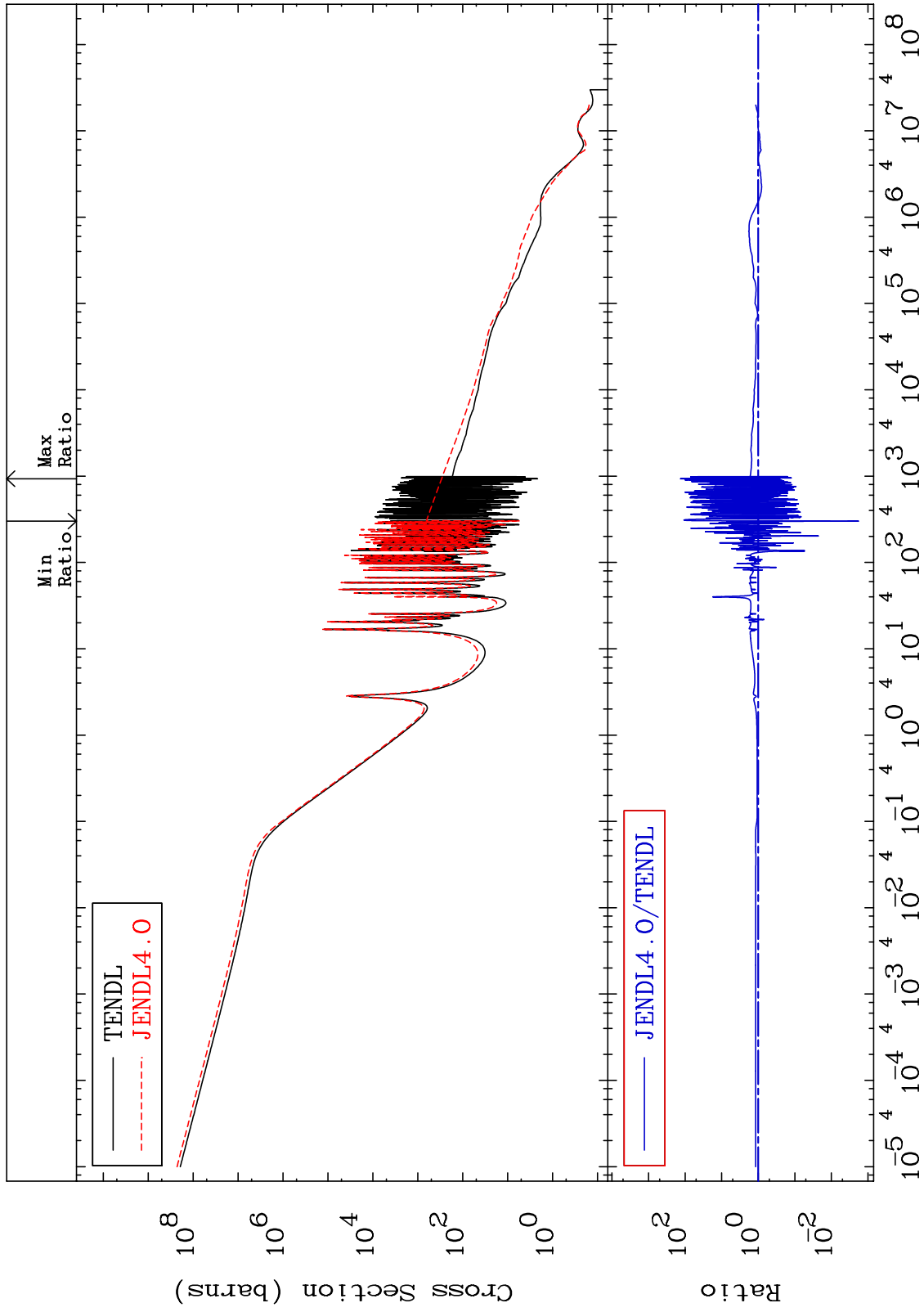
Incident Energy (eV)

64-Gd-157

MAT 6440

Kerma capture (mt102)  
Cross Section

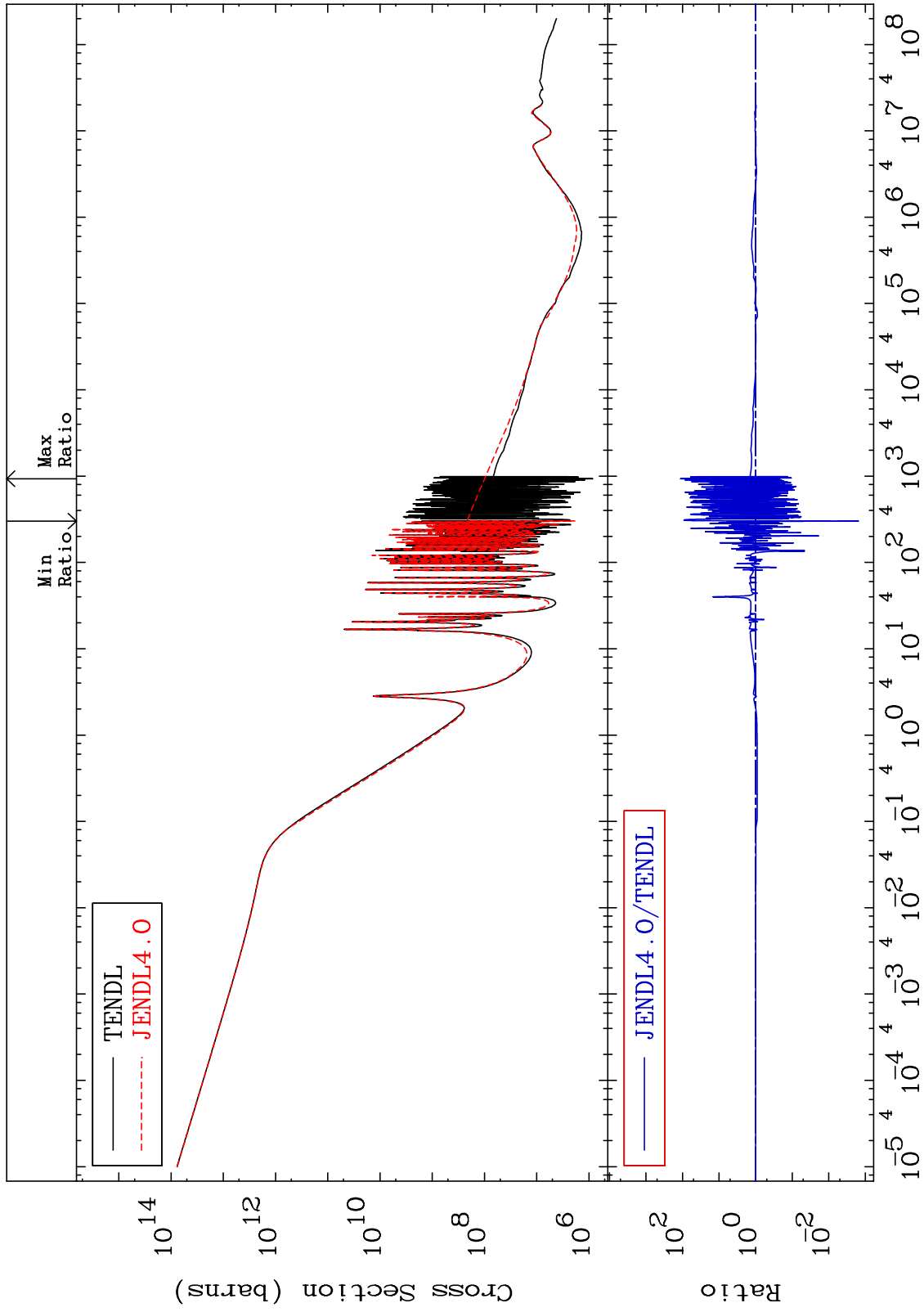
64-Gd-157  
-99.82 To 9999. %



MAT 6440

Total photon (eV-barns)  
Cross Section

64-Gd-157  
-99.85 To 9999. %



59

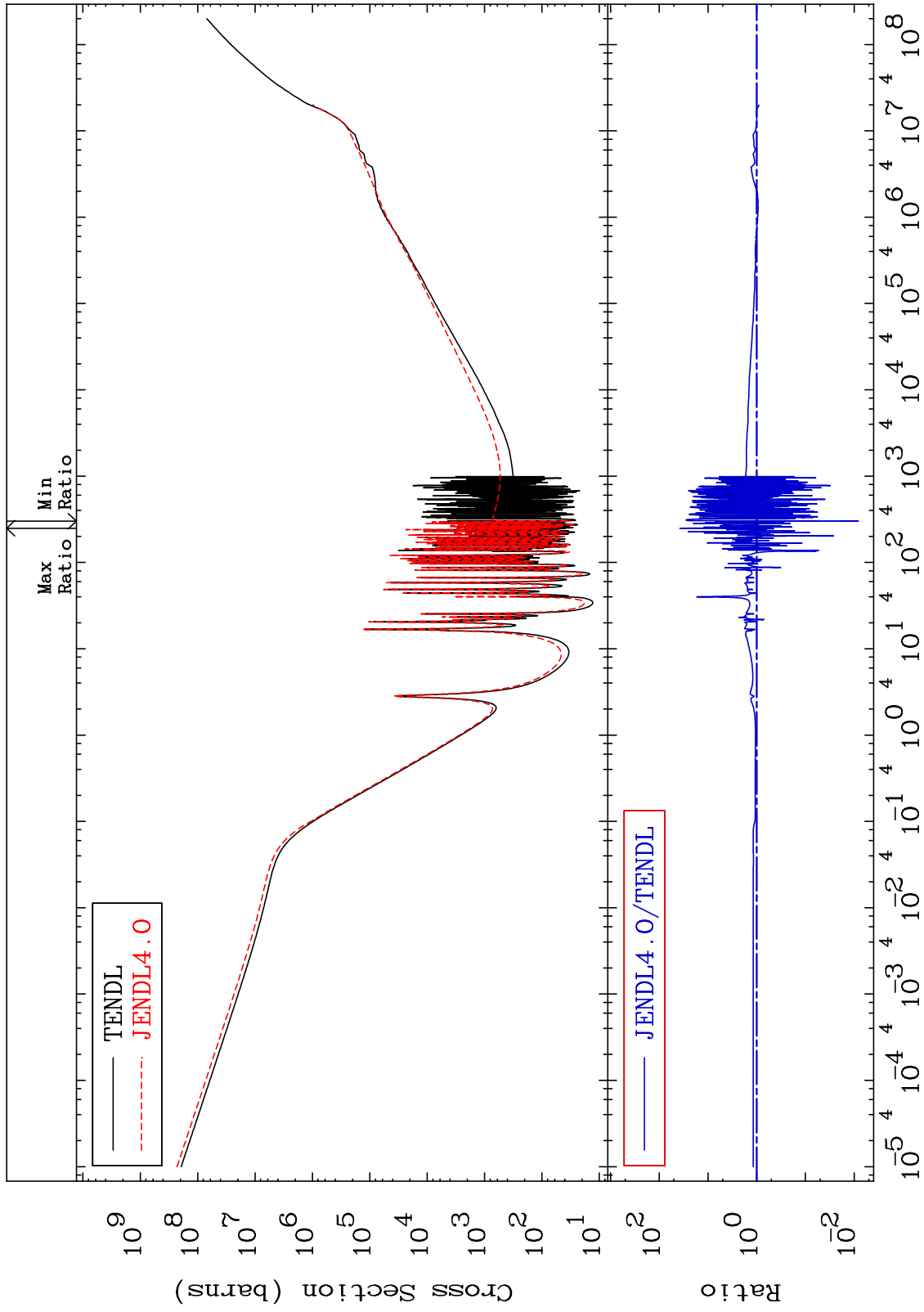
Incident Energy (eV)

64-Gd-157

MAT 6440

Total kinematic kerma (high limit)  
Cross Section

64-Gd-157  
-99.18 To 3653. %



60

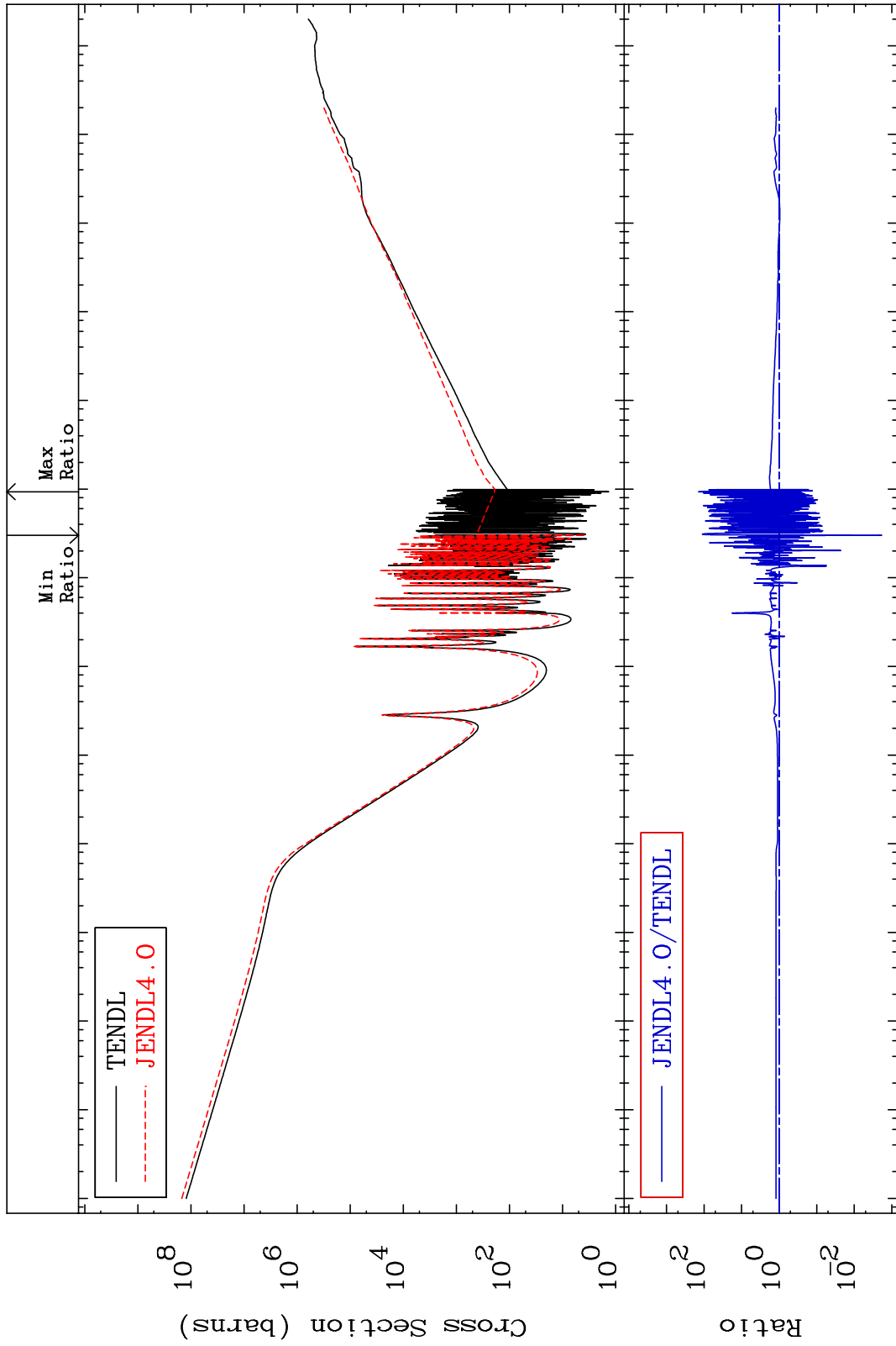
Incident Energy (eV)

64-Gd-157

MAT 6440

Dpa total (eV-barns)  
Cross Section

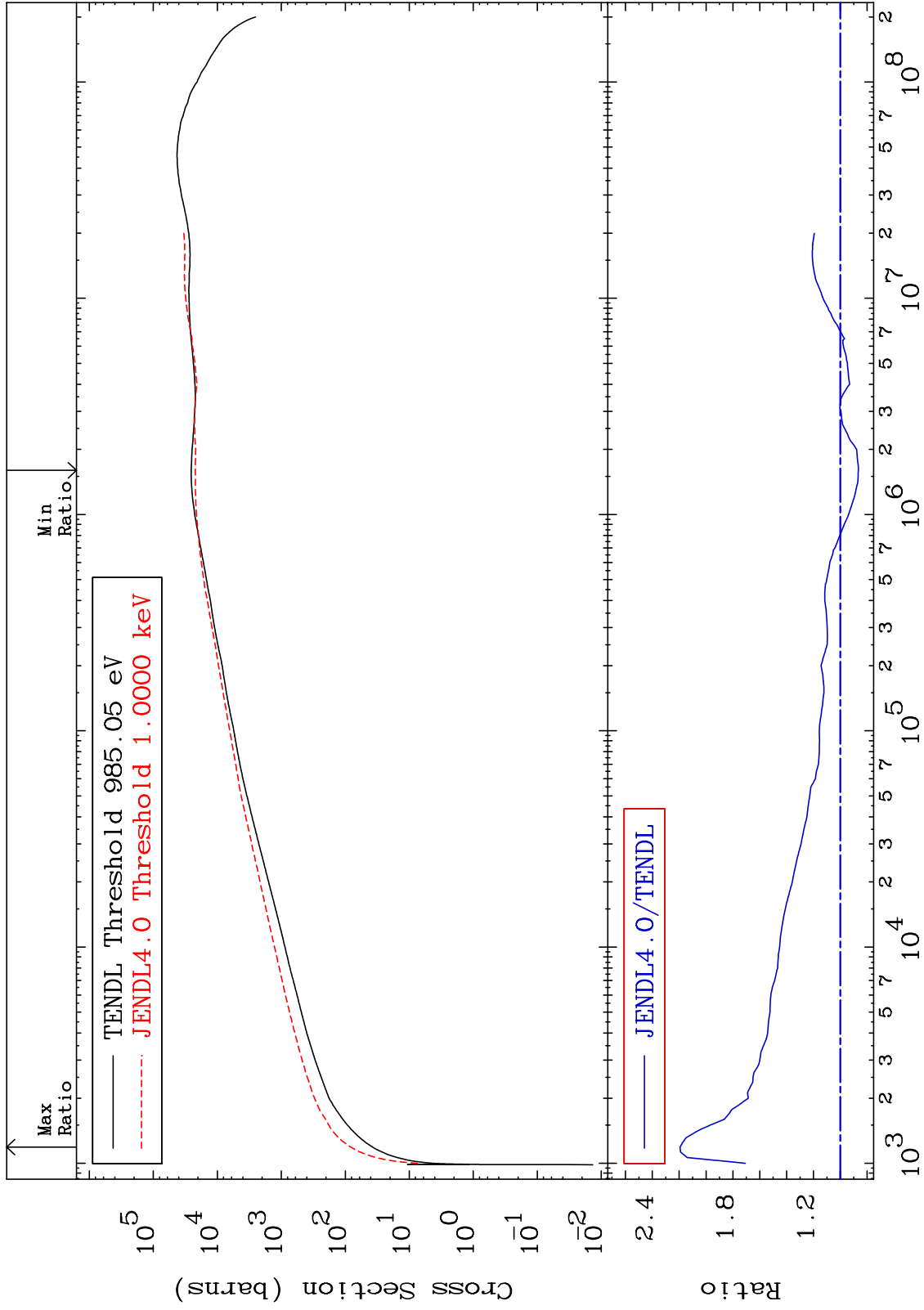
64-Gd-157  
-99.81 To 9999. %



MAT 6440

Dpa elastic (mt2)  
Cross Section

64-Gd-157  
-13.46 To 119.4 %



62

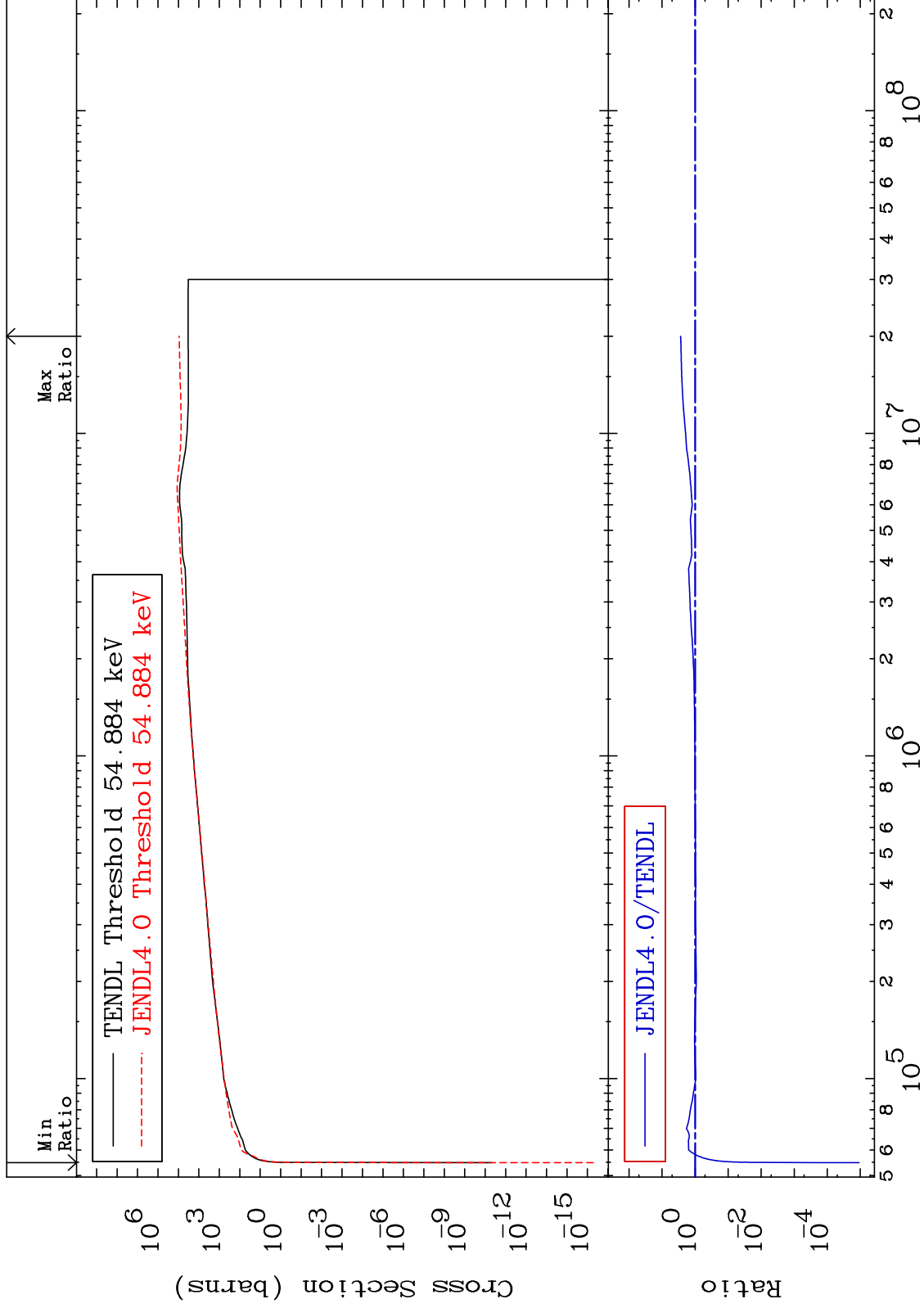
Incident Energy (eV)

64-Gd-157

MAT 6440

Dpa inelastic (mt51-91)  
Cross Section

64-Gd-157  
-100.0 To 174.2 %



63

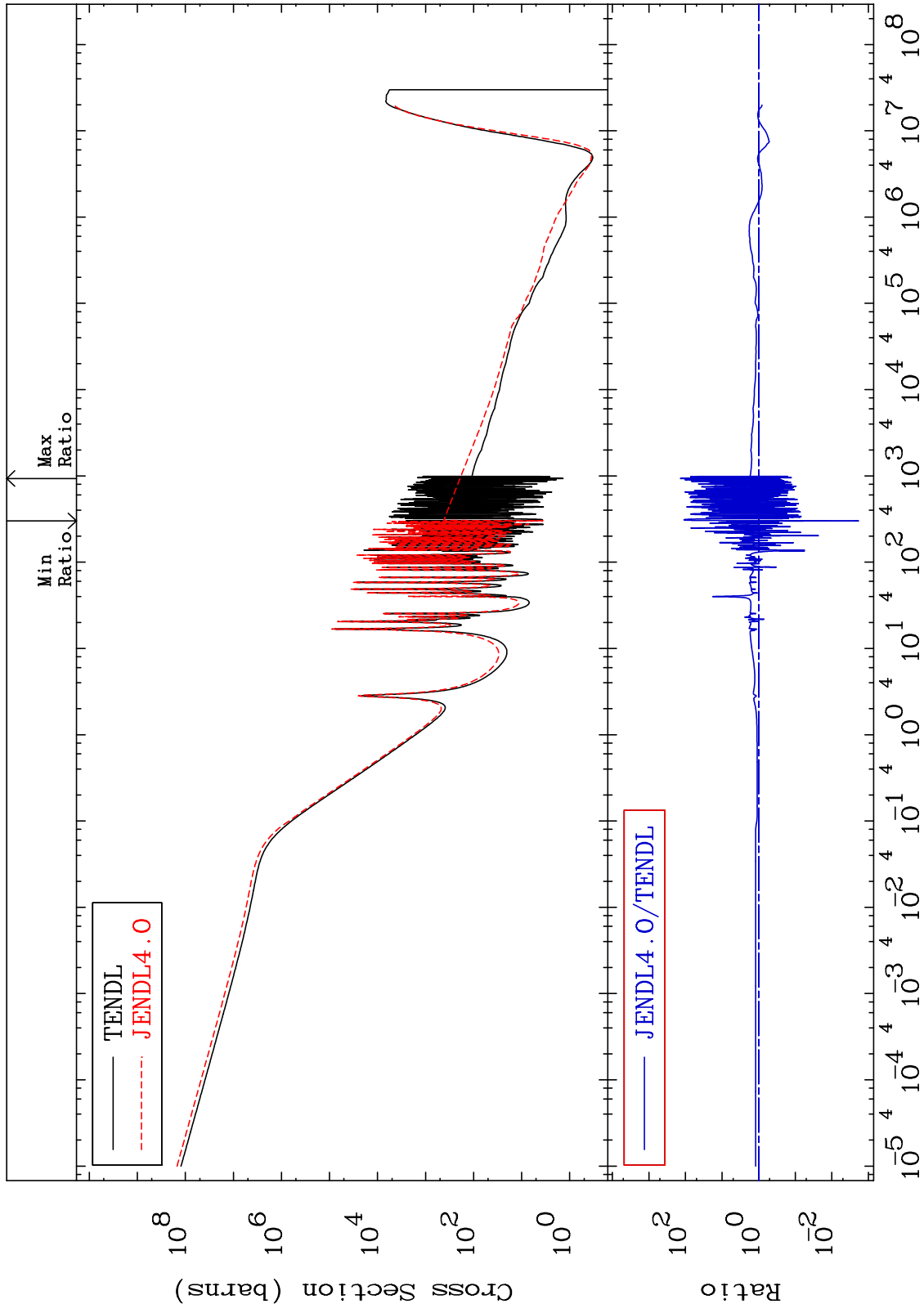
Incident Energy (eV) 64-Gd-157



MAT 6440

Dpa disappearance (mt102 -120)  
Cross Section

64-Gd-157  
-99.81 To 9999. %



Min Ratio

Max Ratio

JENDL4.0/TENDL

64

Incident Energy (eV)

64-Gd-157