

Program Complot  
(Version 2018-1)

by

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Press Mouse Button to Start

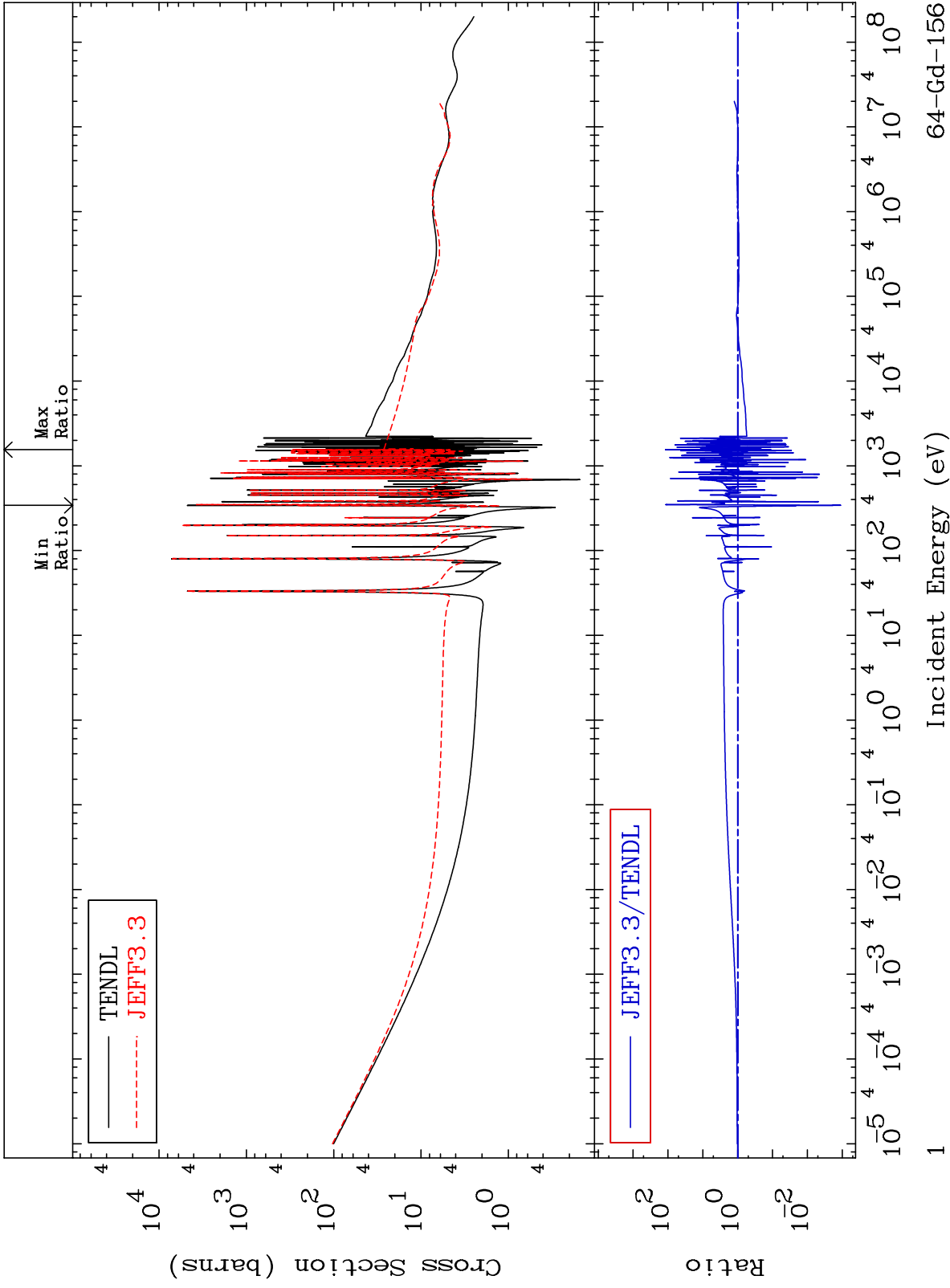
MAT 6437

Total

64-Gd-156

-99.89 To 9999. %

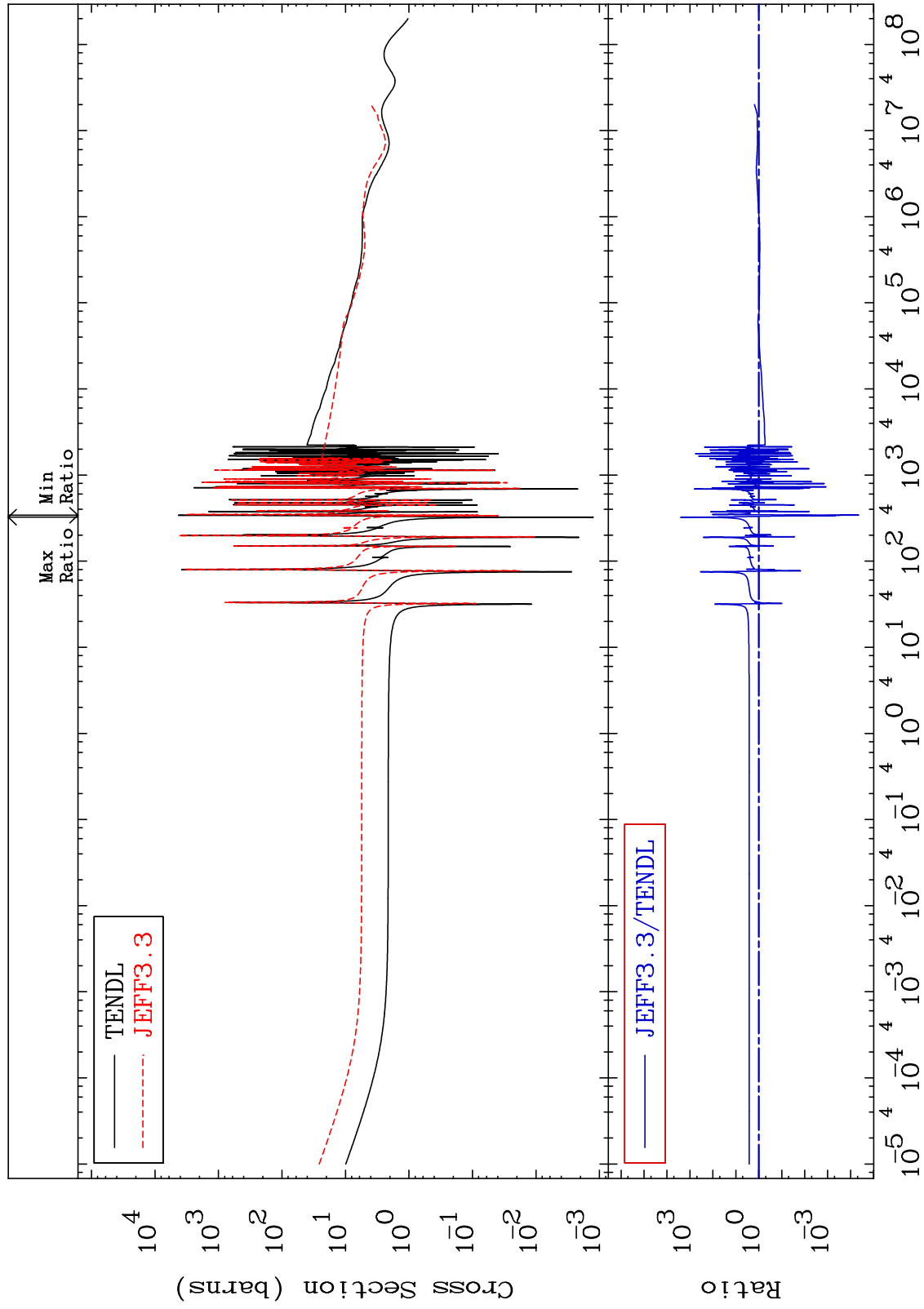
Cross Section



MAT 6437

Elastic  
Cross Section

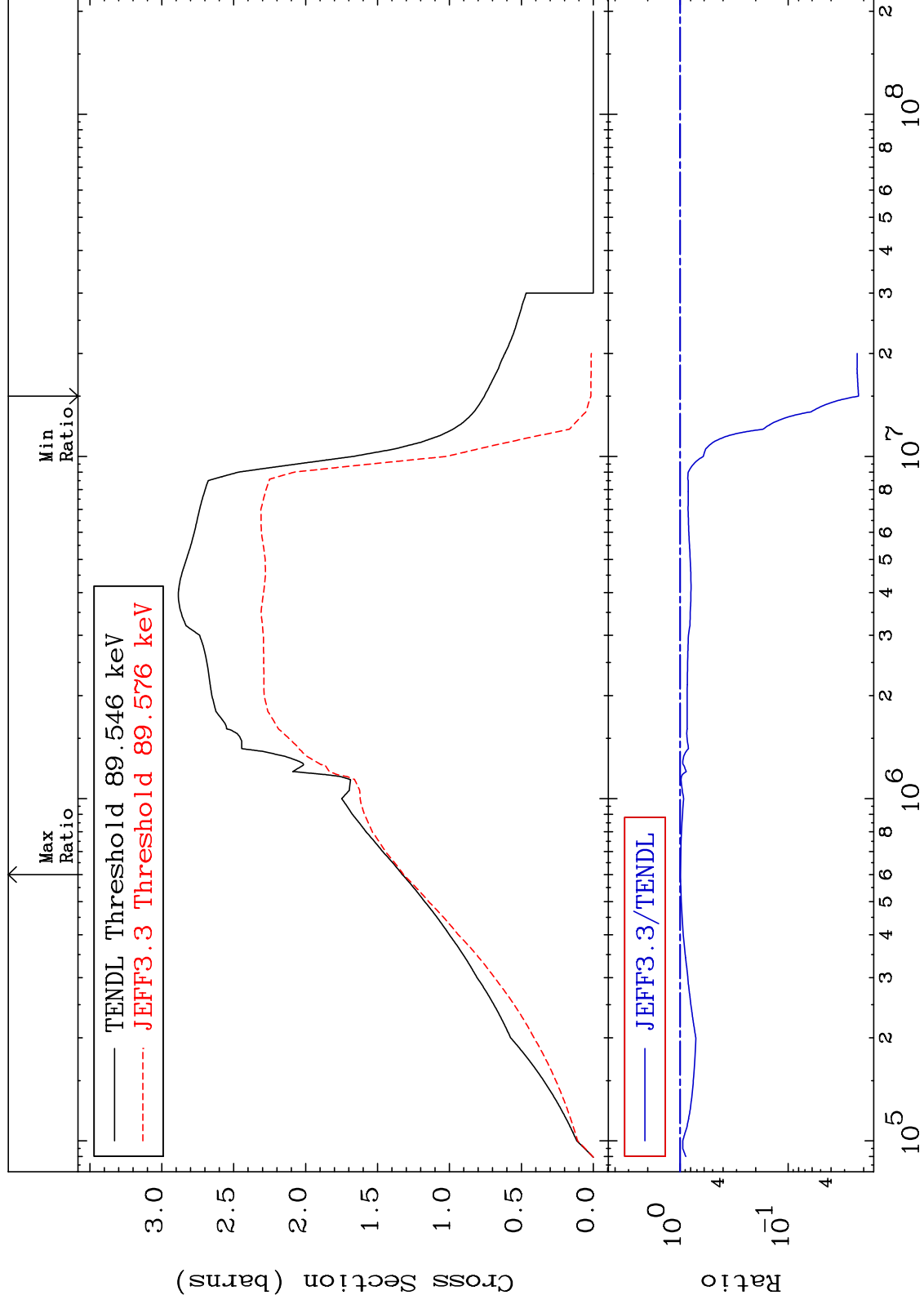
64-Gd-156  
-100.0 To 9999. %



MAT 6437

Inelastic  
Cross Section

64-Gd-156  
-97.77 To -0.640%



— TENDL Threshold 89.546 keV  
- - - JEFF3.3 Threshold 89.576 keV

— JEFF3.3/TENDL

Incident Energy (eV)

64-Gd-156

3

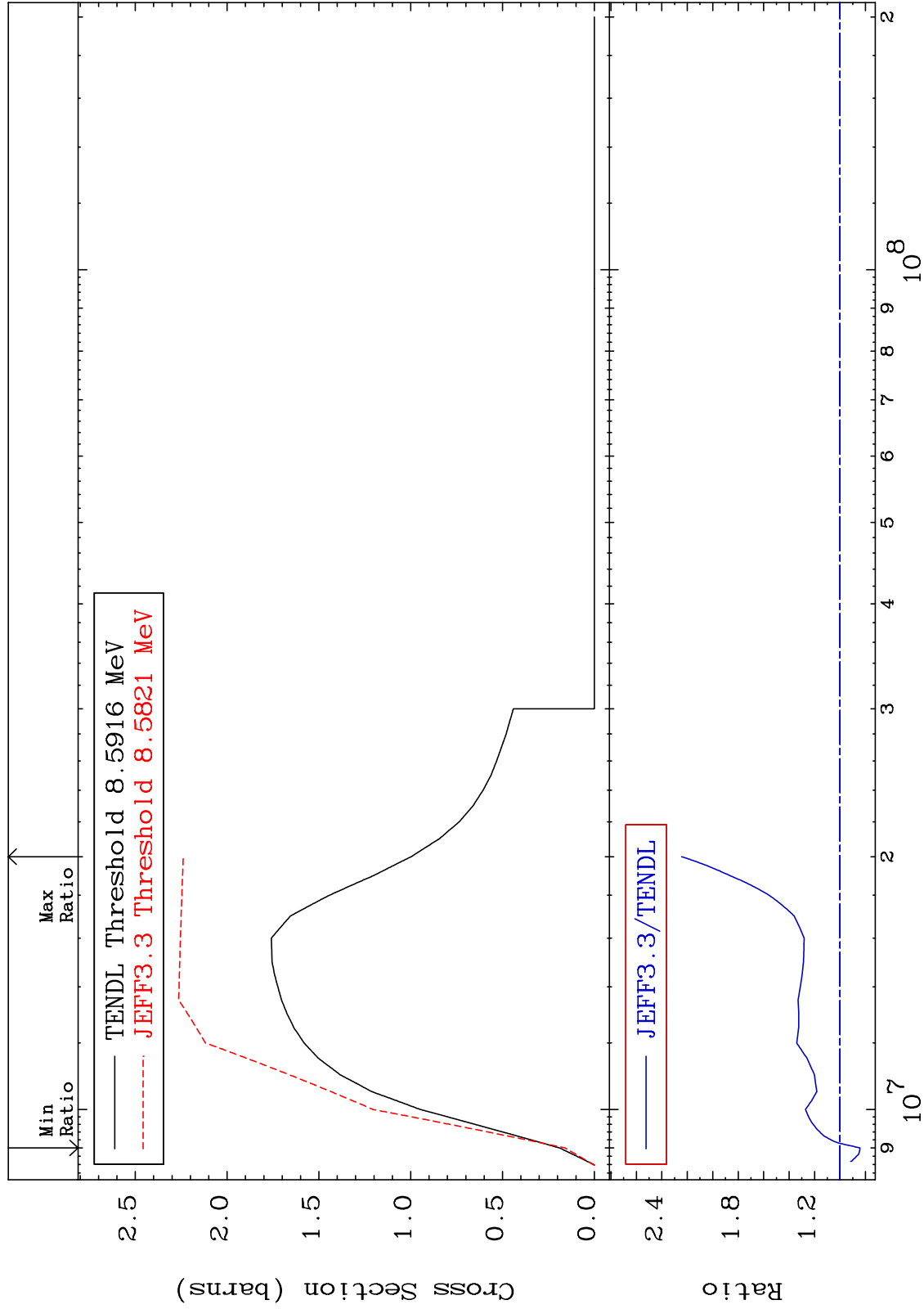
MAT 6437

(n,2n)

64-Gd-156

Cross Section

-15.77 To 124.4 %



4

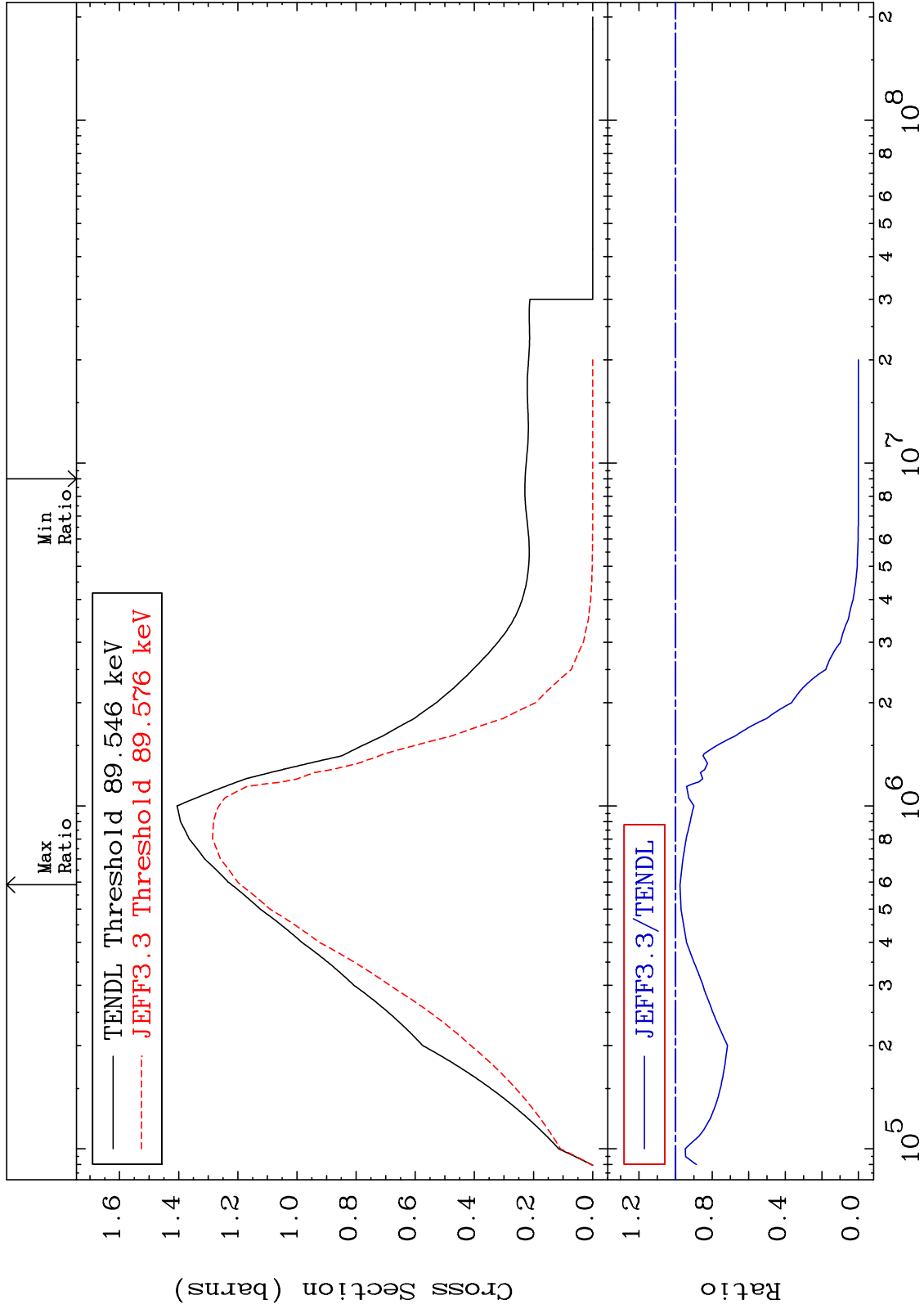
Incident Energy (eV)

64-Gd-156

MAT 6437

MT= 51 (n,n') Level  
Cross Section

64-Gd-156  
-100.0 To -2.442%



Incident Energy (eV)

64-Gd-156

5

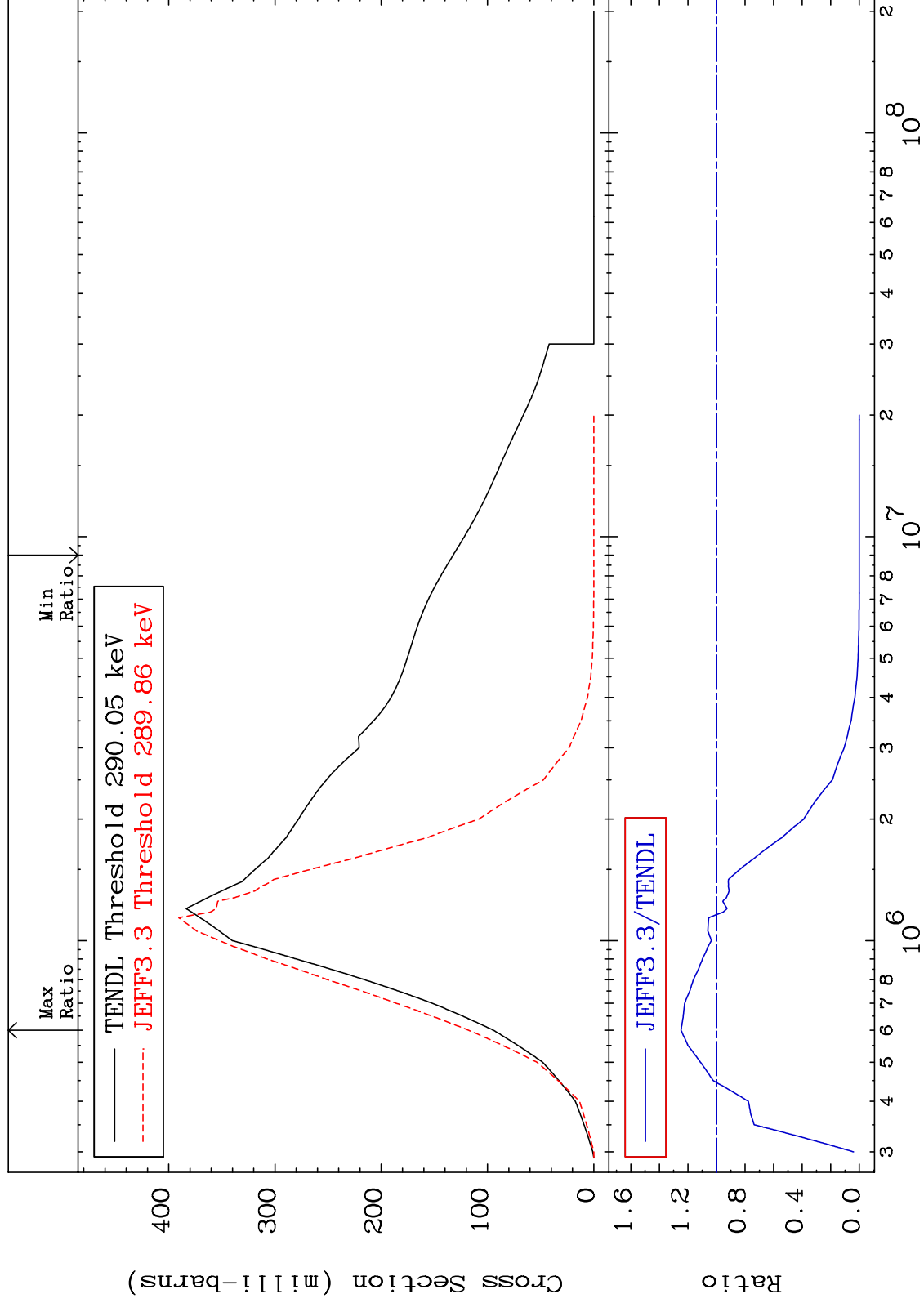
MAT 6437

MT= 52 (n,n') Level

64-Gd-156

Cross Section

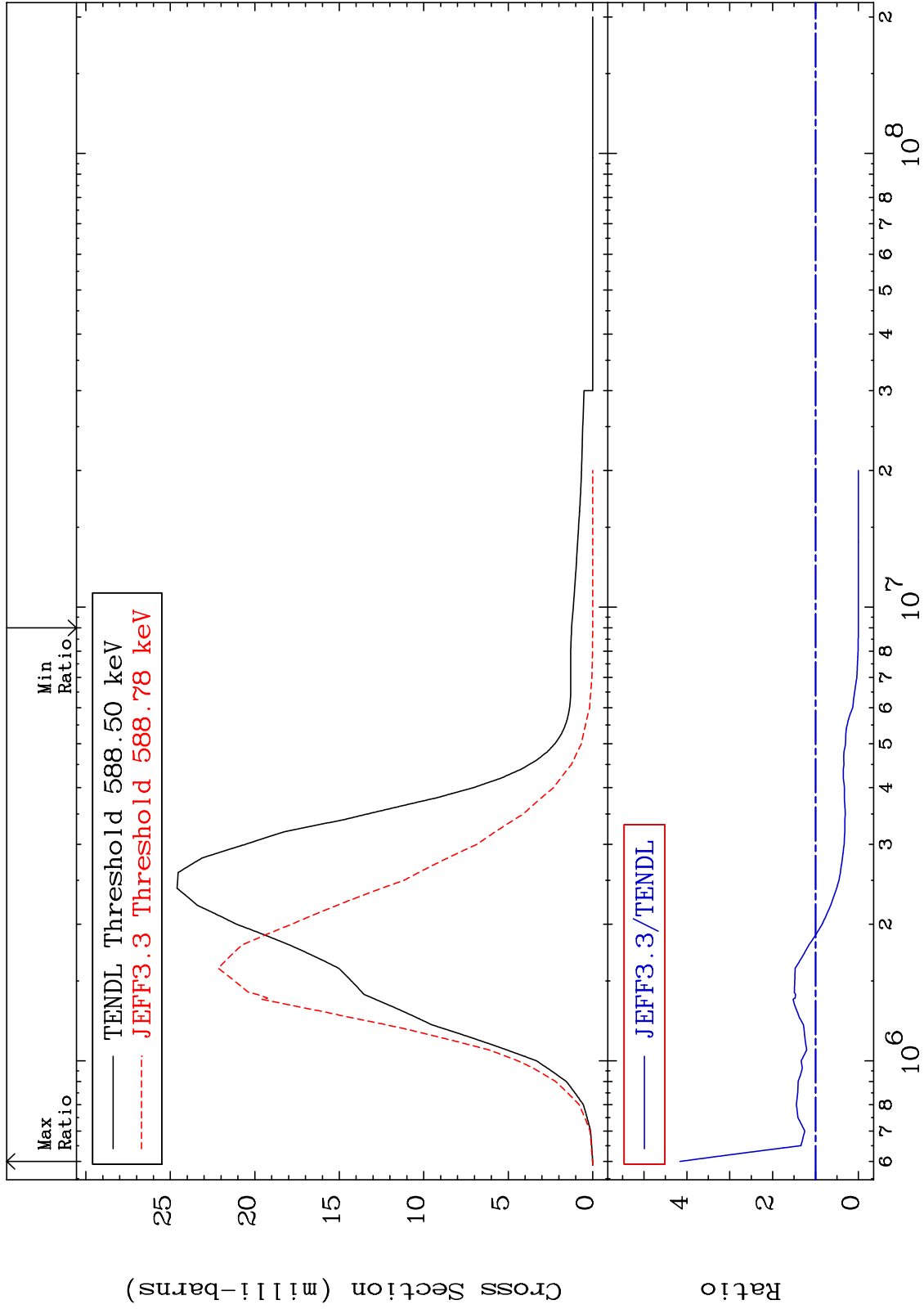
-100.0 To 24.83 %



MAT 6437

MT= 53 (n,n') Level  
Cross Section

64-Gd-156  
-100.0 To 315.9 %



7

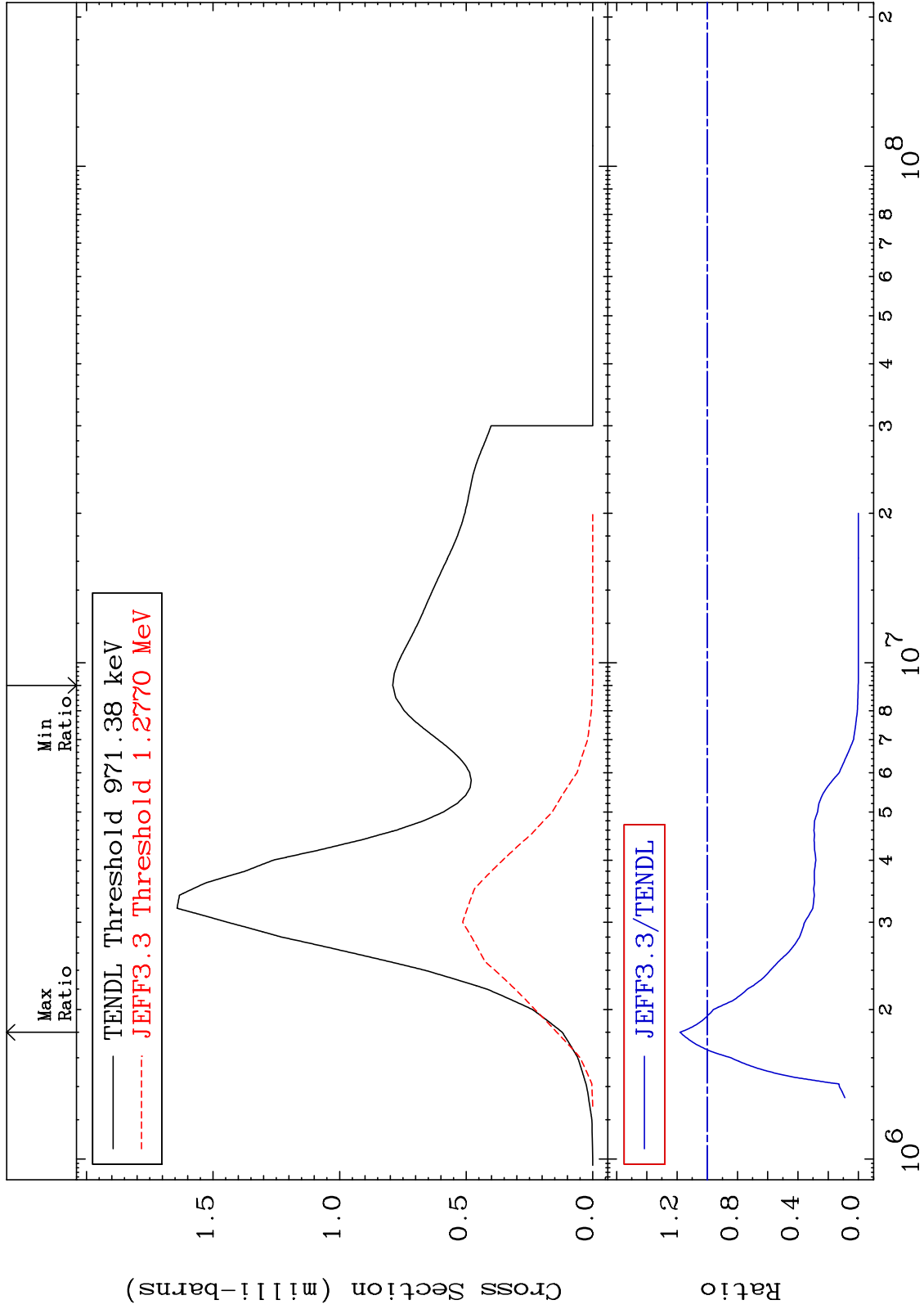
64-Gd-156



MAT 6437

MT= 54 (n,n') Level  
Cross Section

64-Gd-156  
-100.0 To 18.04 %



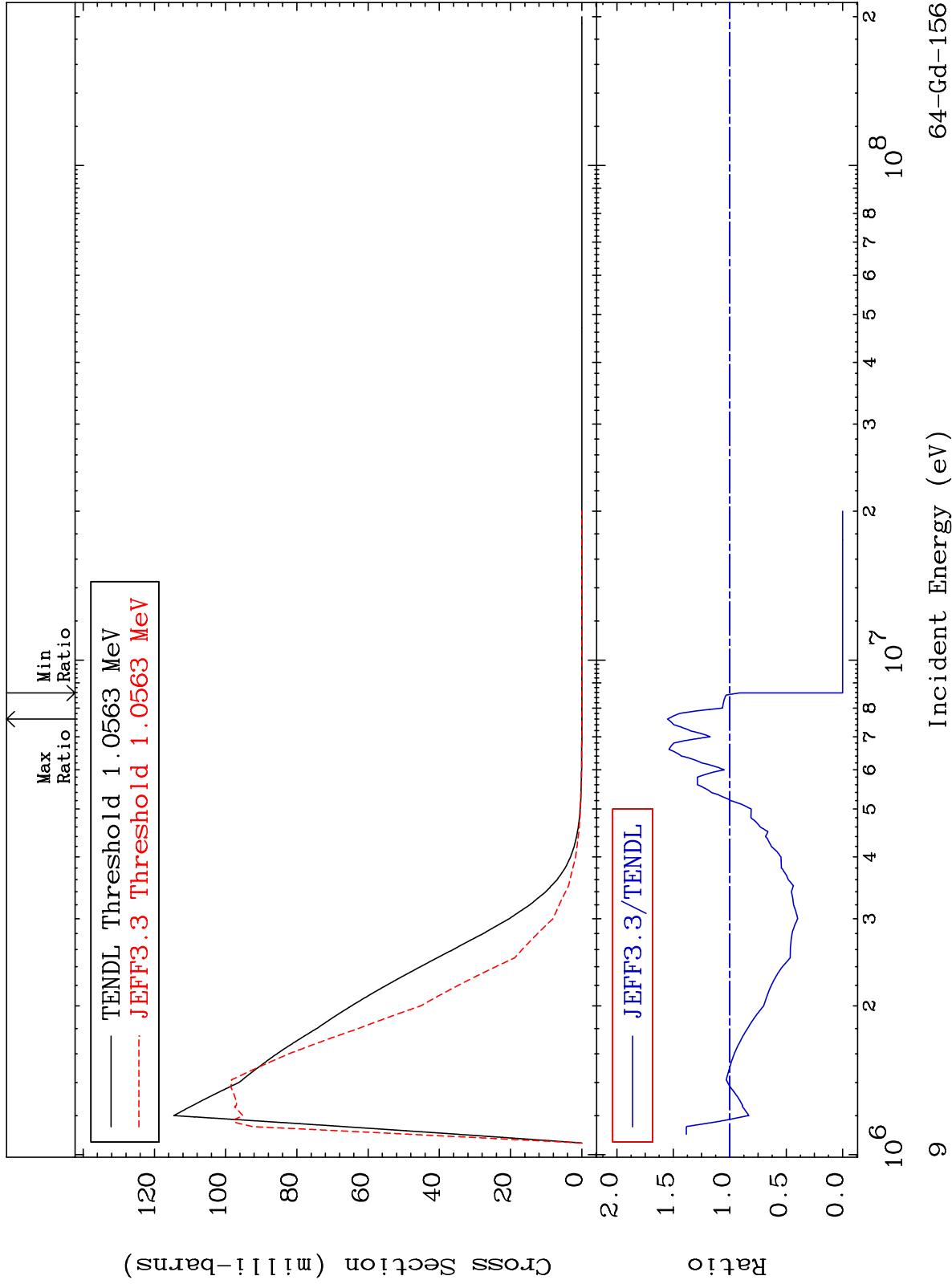
64-Gd-156

64-Gd-156

MAT 6437

MT= 55 (n,n') Level  
Cross Section

64-Gd-156  
-100.0 To 55.14 %



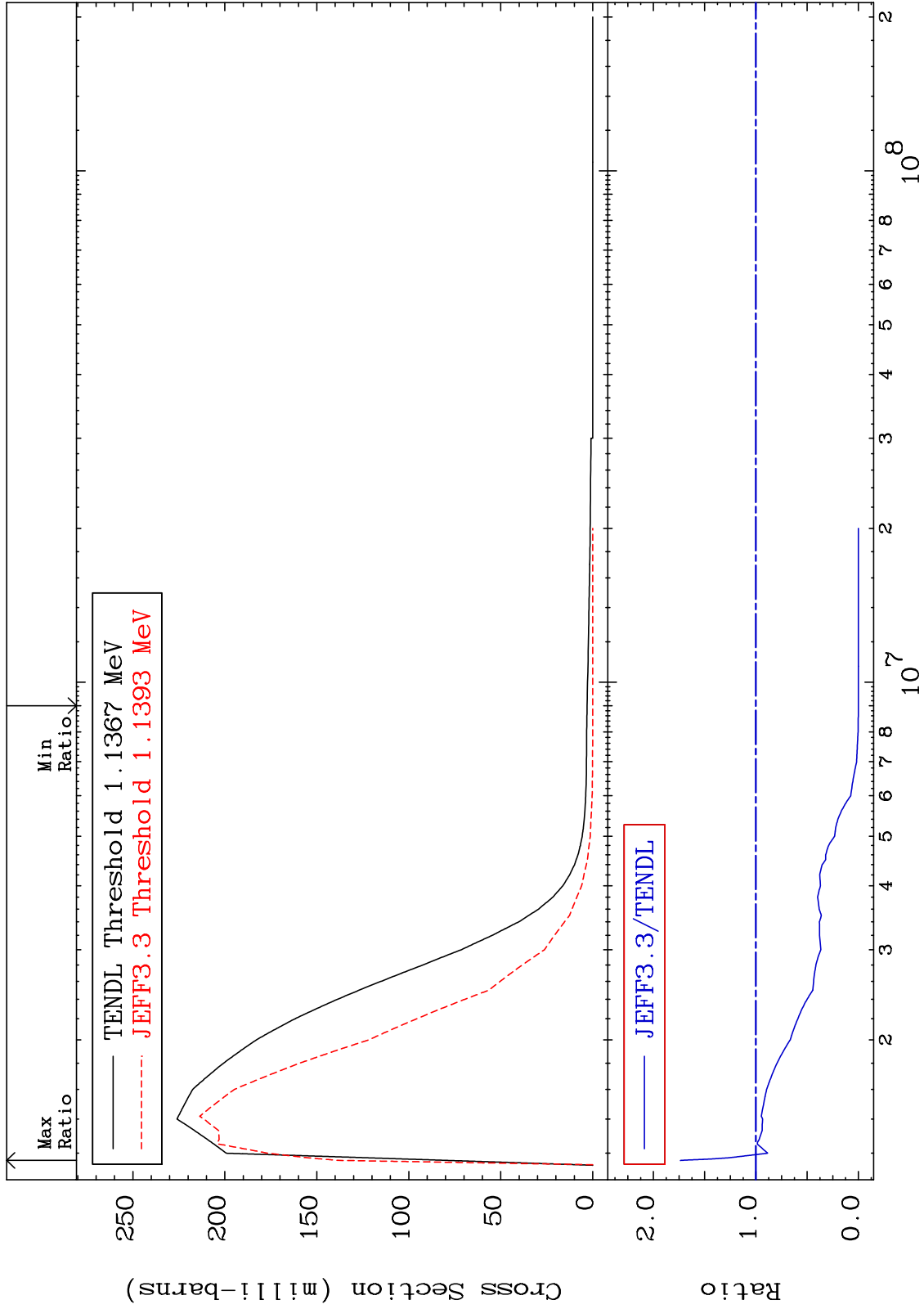
64-Gd-156

Incident Energy (eV)

MAT 6437

MT= 56 (n,n') Level  
Cross Section

64-Gd-156  
-100.0 To 74.07 %



10

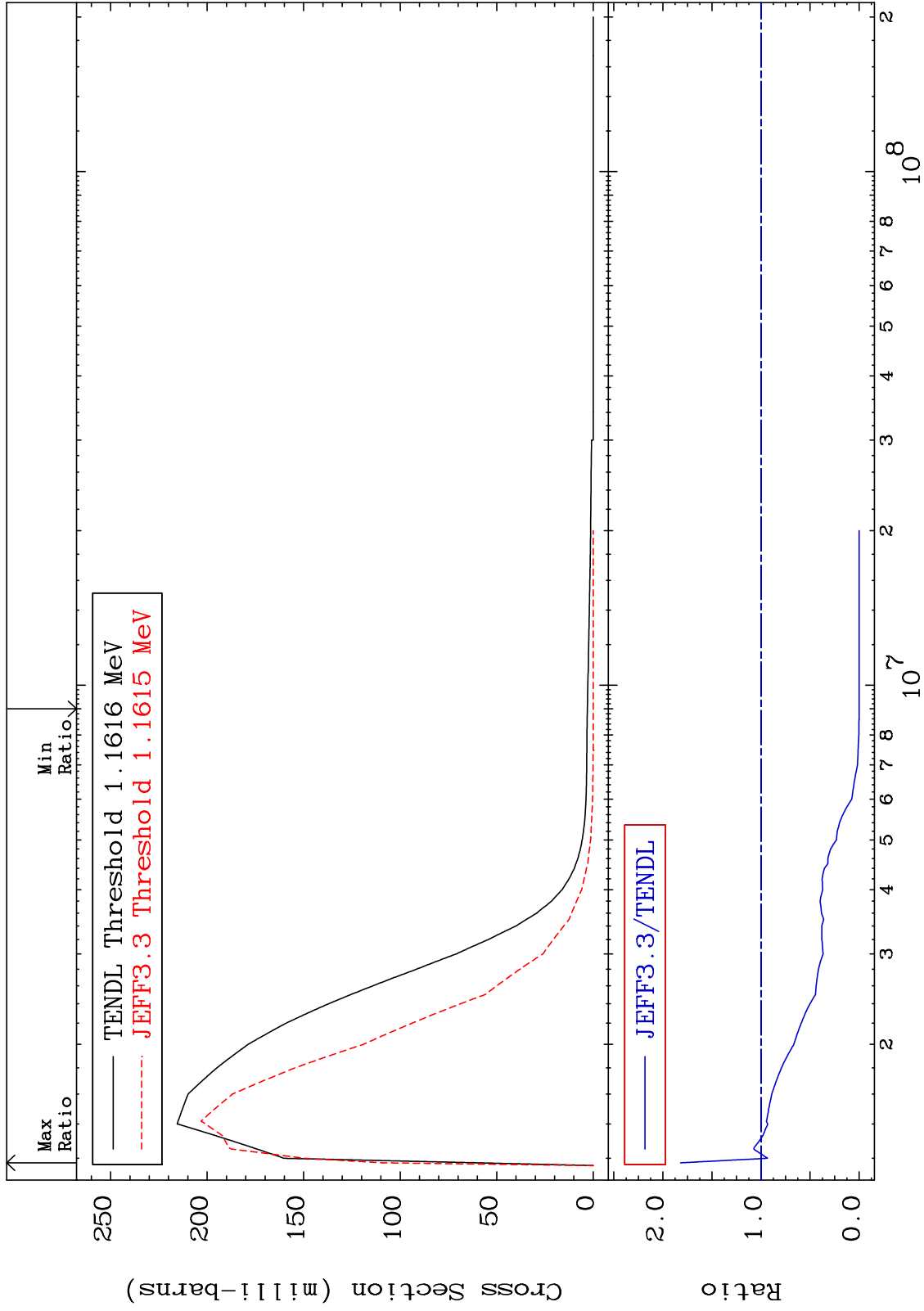
Incident Energy (eV)

64-Gd-156

MAT 6437

MT= 57 (n,n') Level  
Cross Section

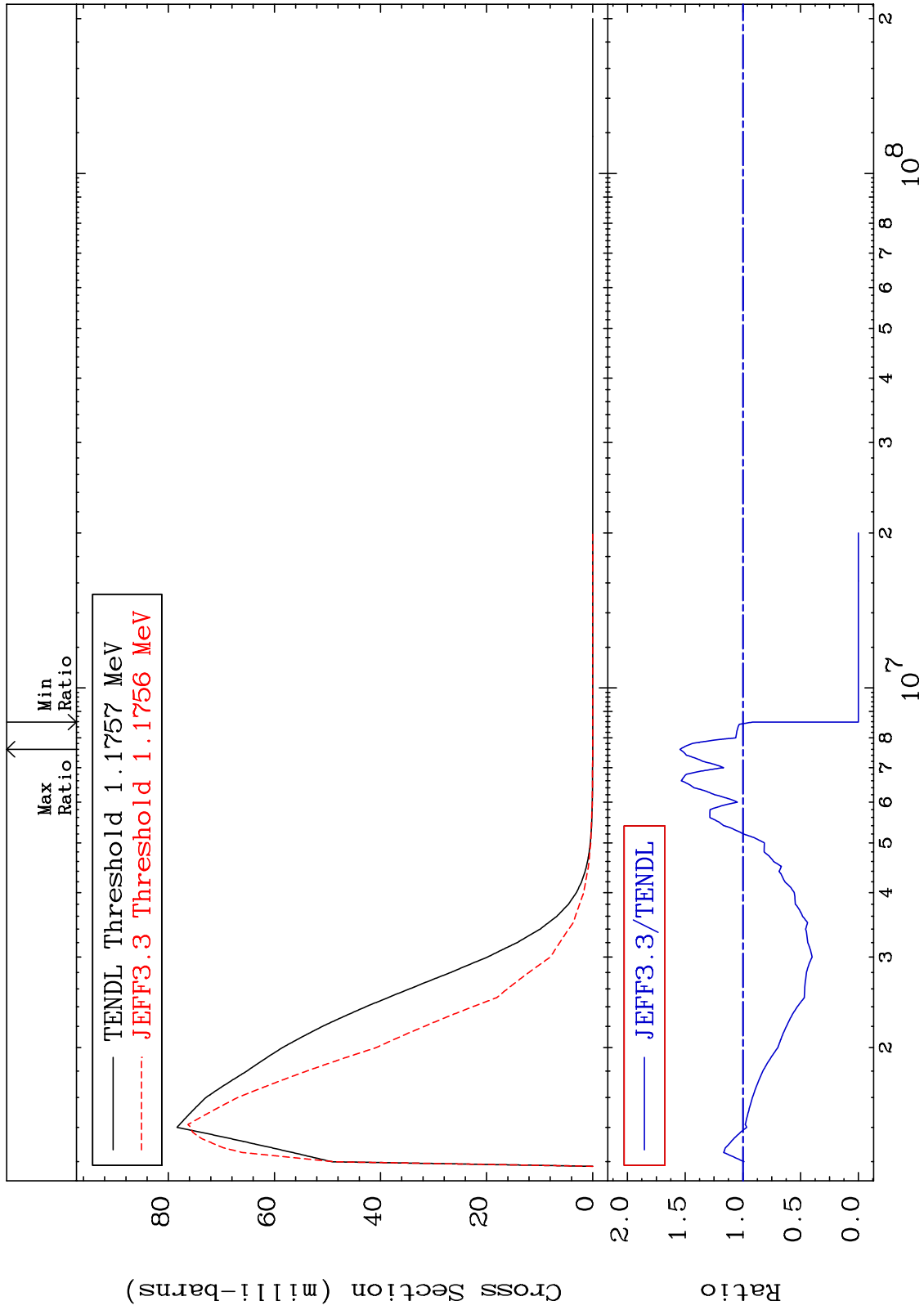
64-Gd-156  
-100.0 To 81.95 %



MAT 6437

MT= 58 (n,n') Level  
Cross Section

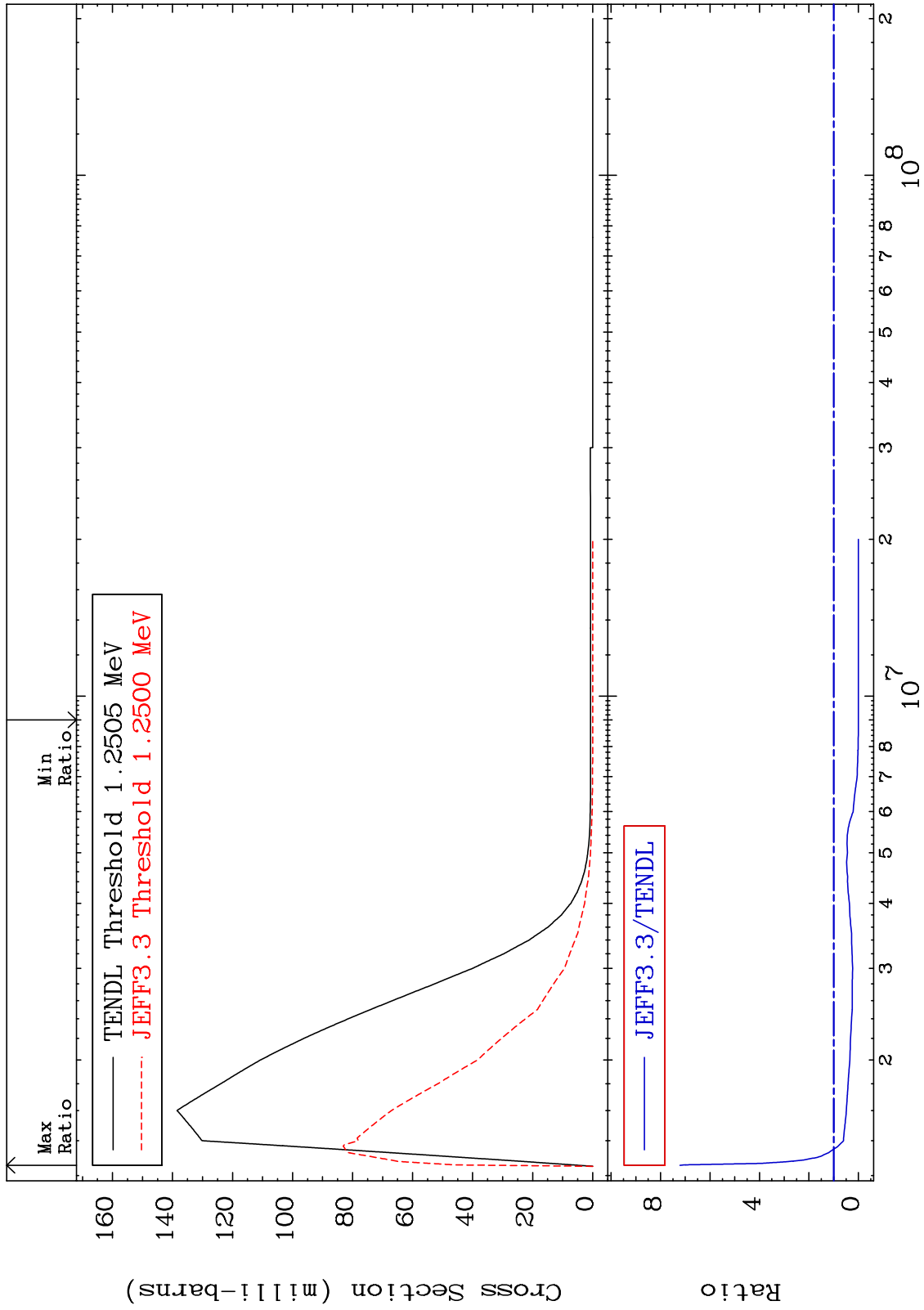
64-Gd-156  
-100.0 To 54.45 %



MAT 6437

MT= 59 (n,n') Level  
Cross Section

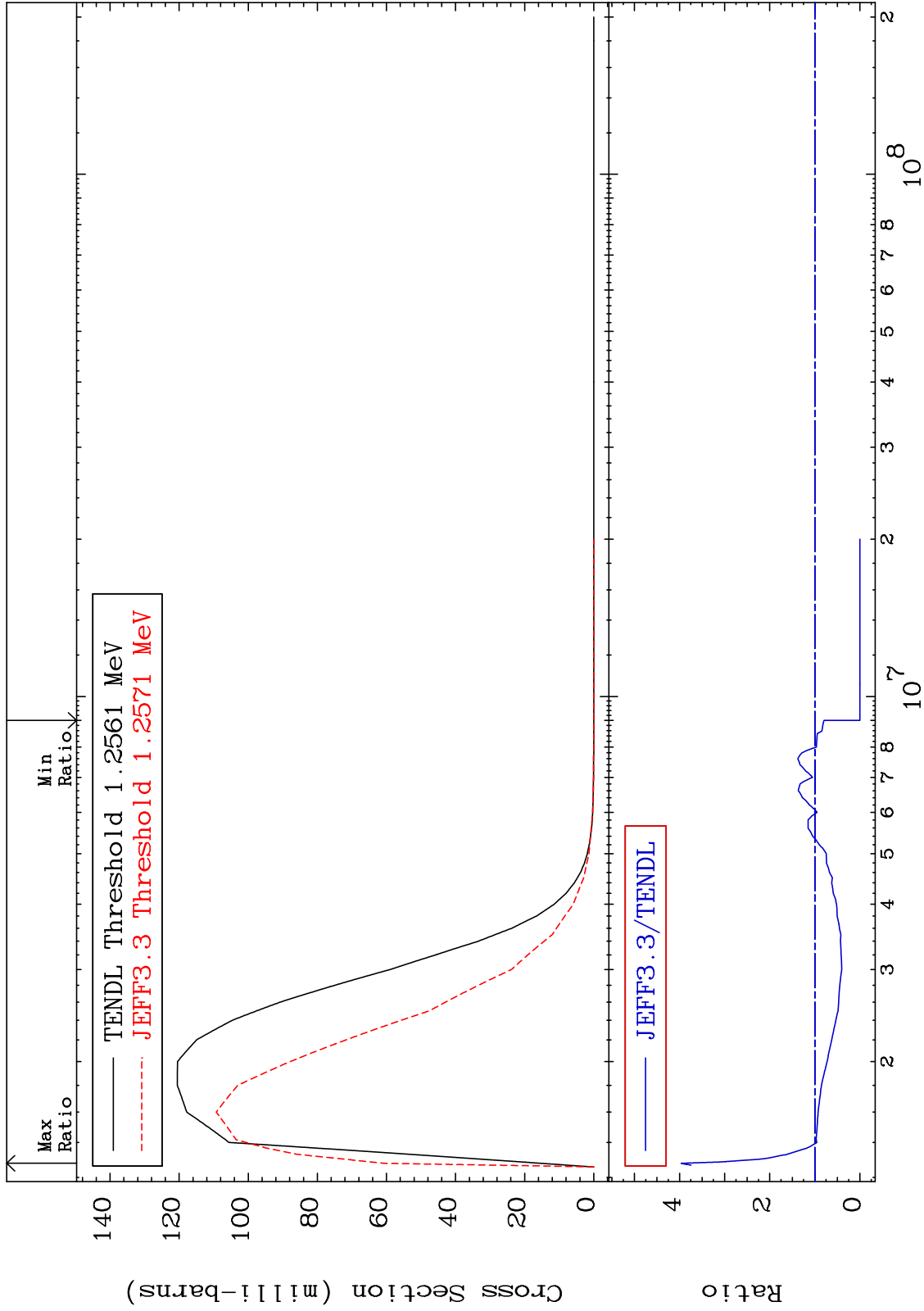
64-Gd-156  
-100.0 To 621.3 %



MAT 6437

MT= 60 (n,n') Level  
Cross Section

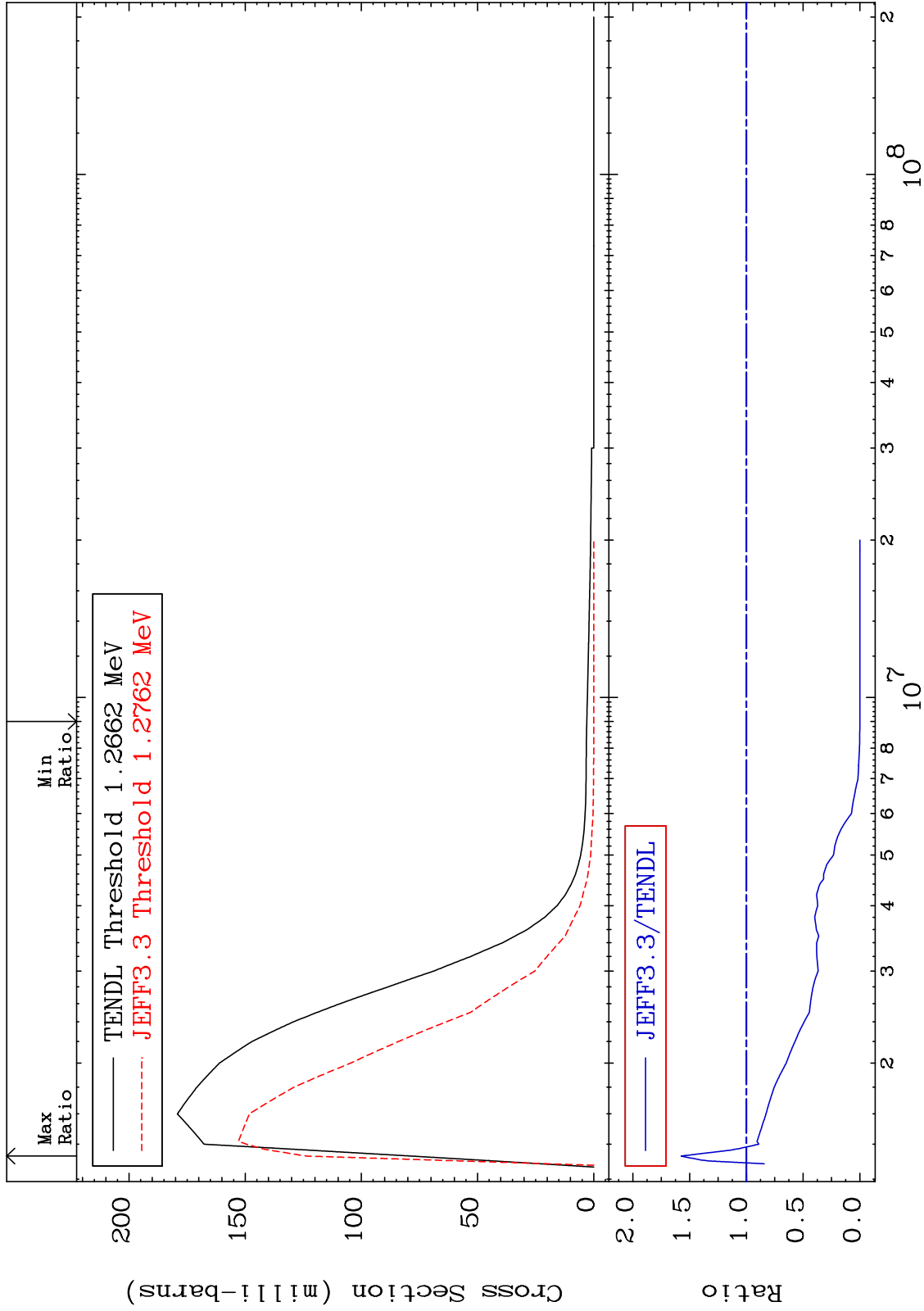
64-Gd-156  
-100.0 To 296.3 %



MAT 6437

MT= 61 (n,n') Level  
Cross Section

64-Gd-156  
-100.0 To 57.39 %

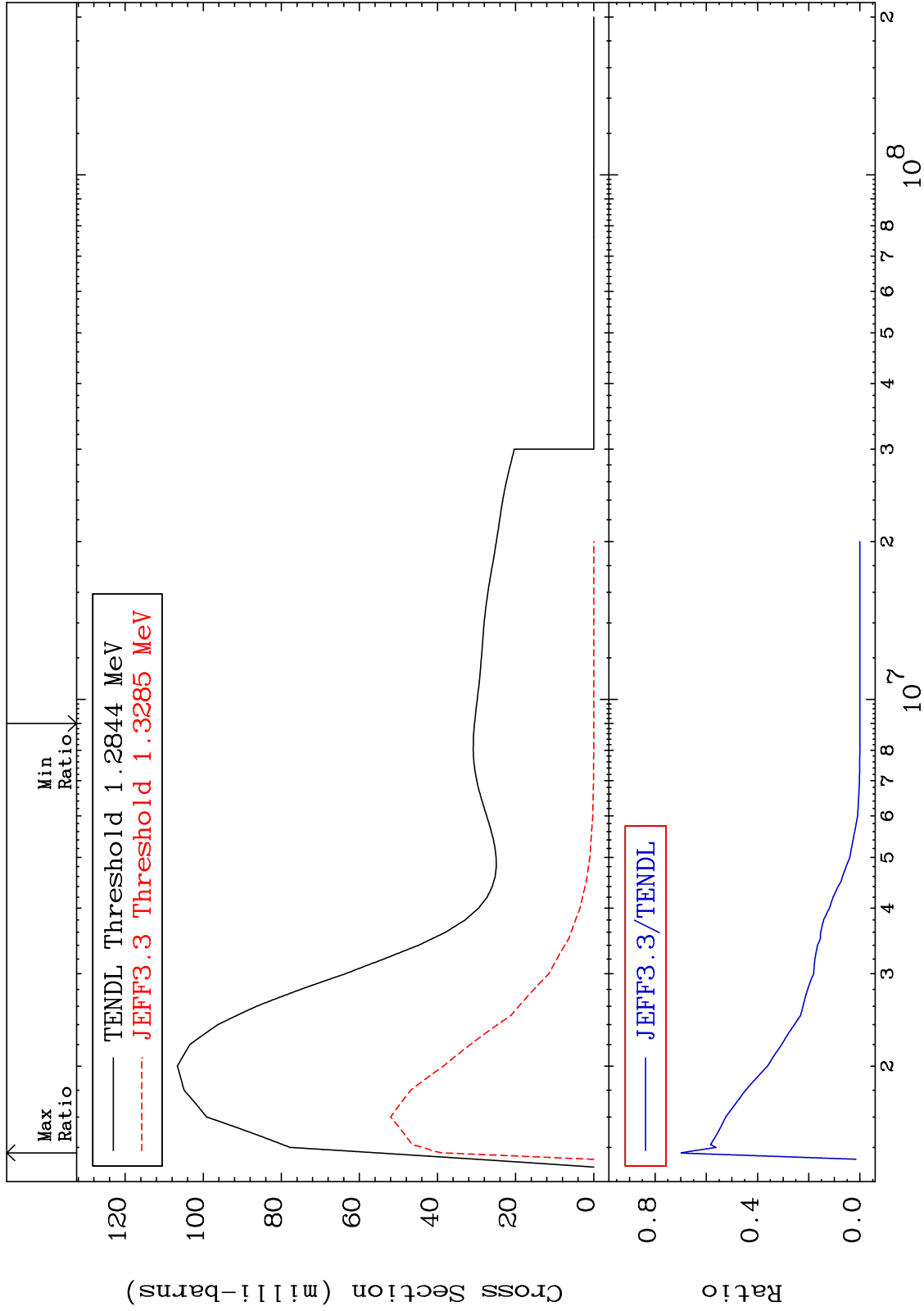




MAT 6437

MT= 62 (n,n') Level  
Cross Section

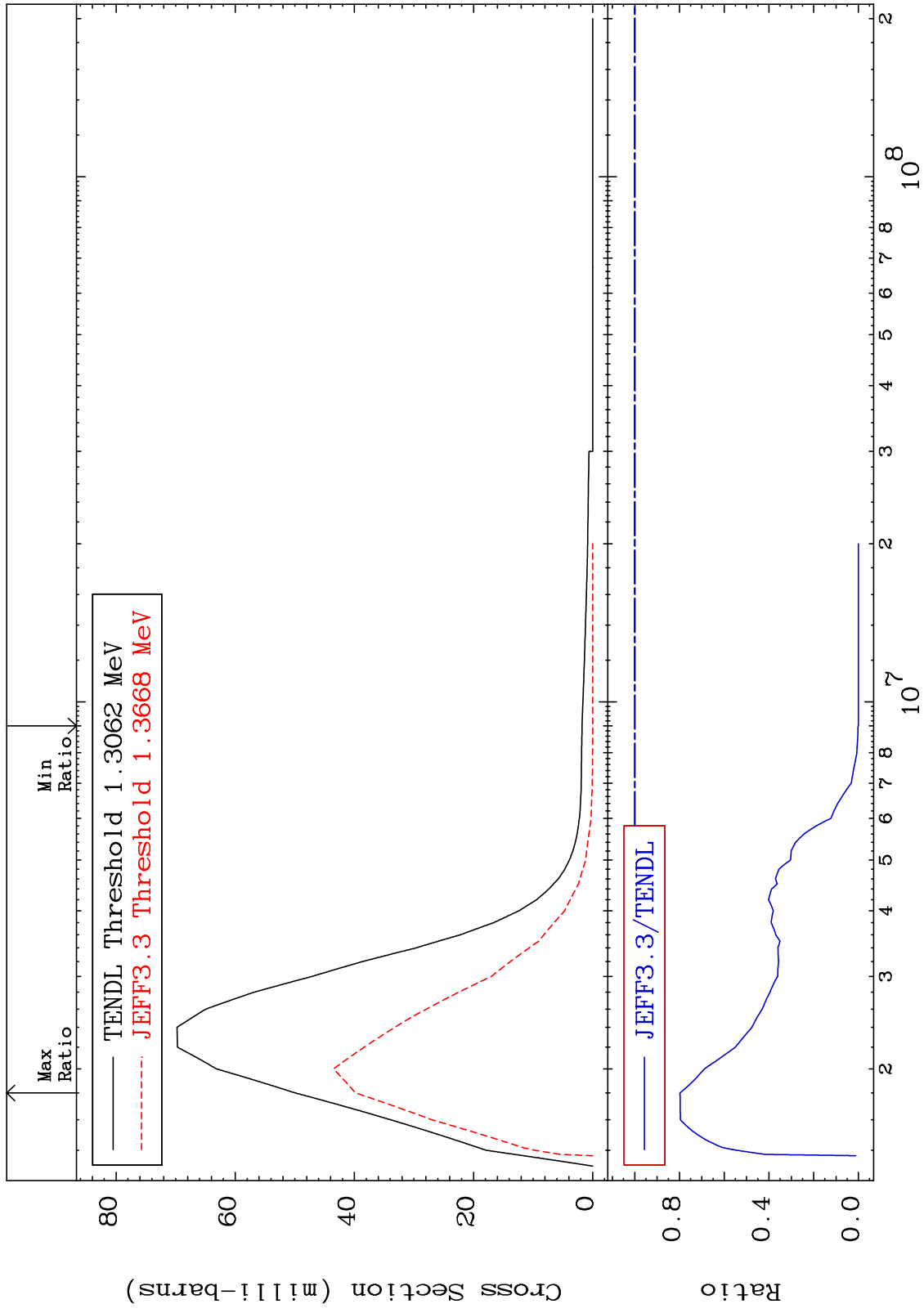
64-Gd-156  
-100.0 To -30.19%



MAT 6437

MT= 63 (n,n') Level  
Cross Section

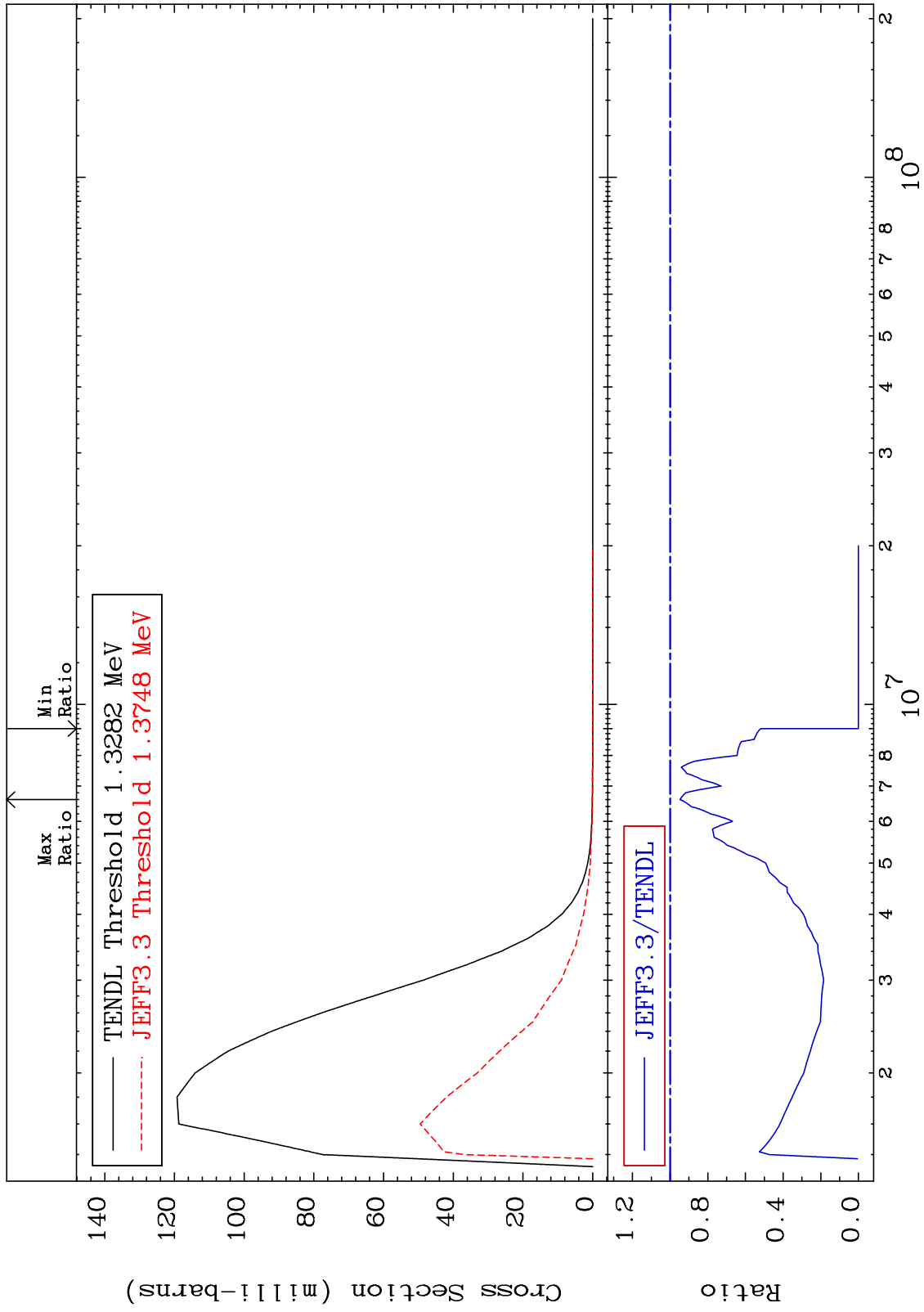
64-Gd-156  
-100.0 To -20.24%



MAT 6437

MT= 64 (n,n') Level  
Cross Section

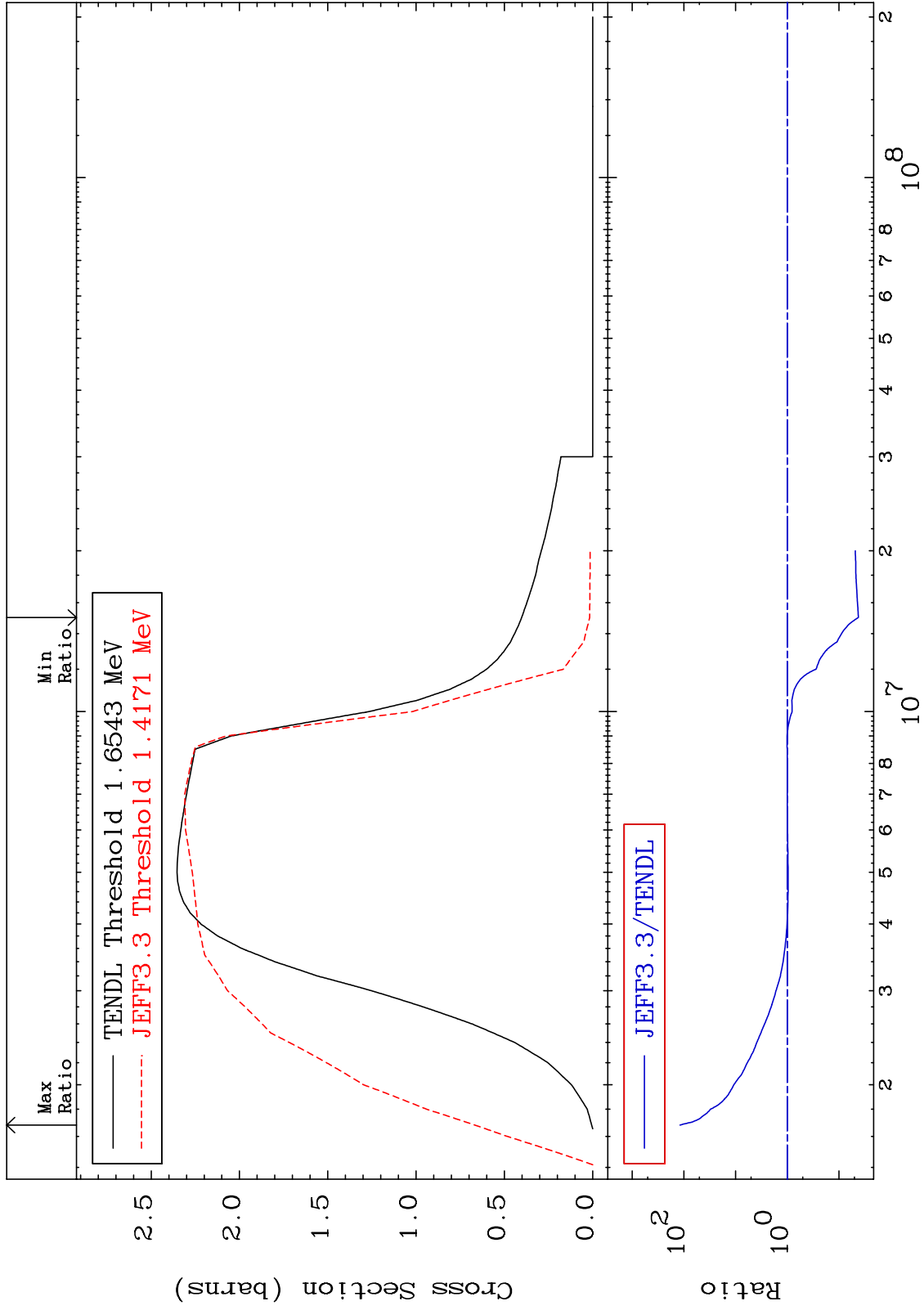
64-Gd-156  
-100.0 To -5.254%



MAT 6437

(n, n') Continuum  
Cross Section

64-Gd-156  
-95.79 To 9999. %

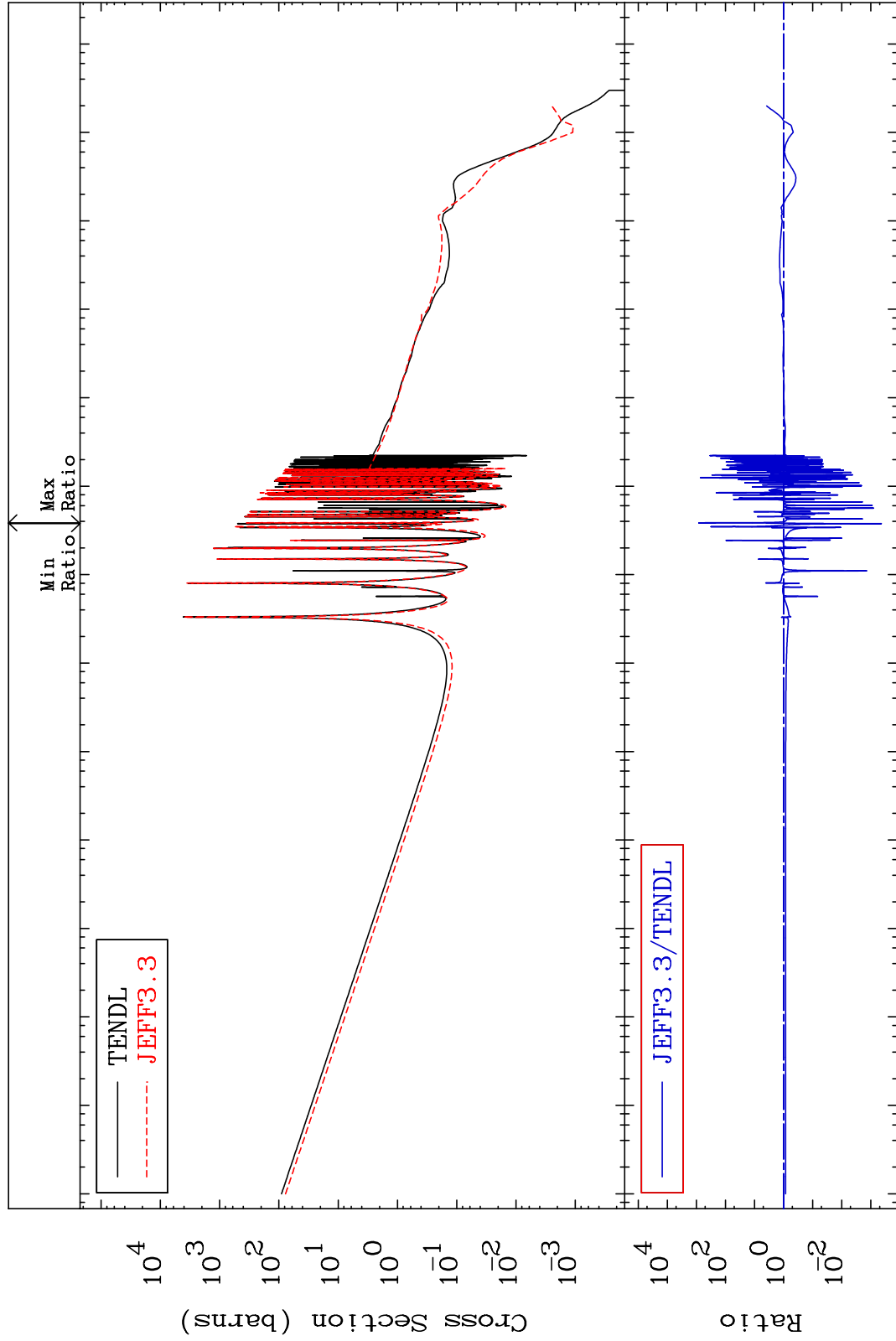


MAT 6437

64-Gd-156

-99.96 To 9999. %

(n,  $\gamma$ )  
Cross Section



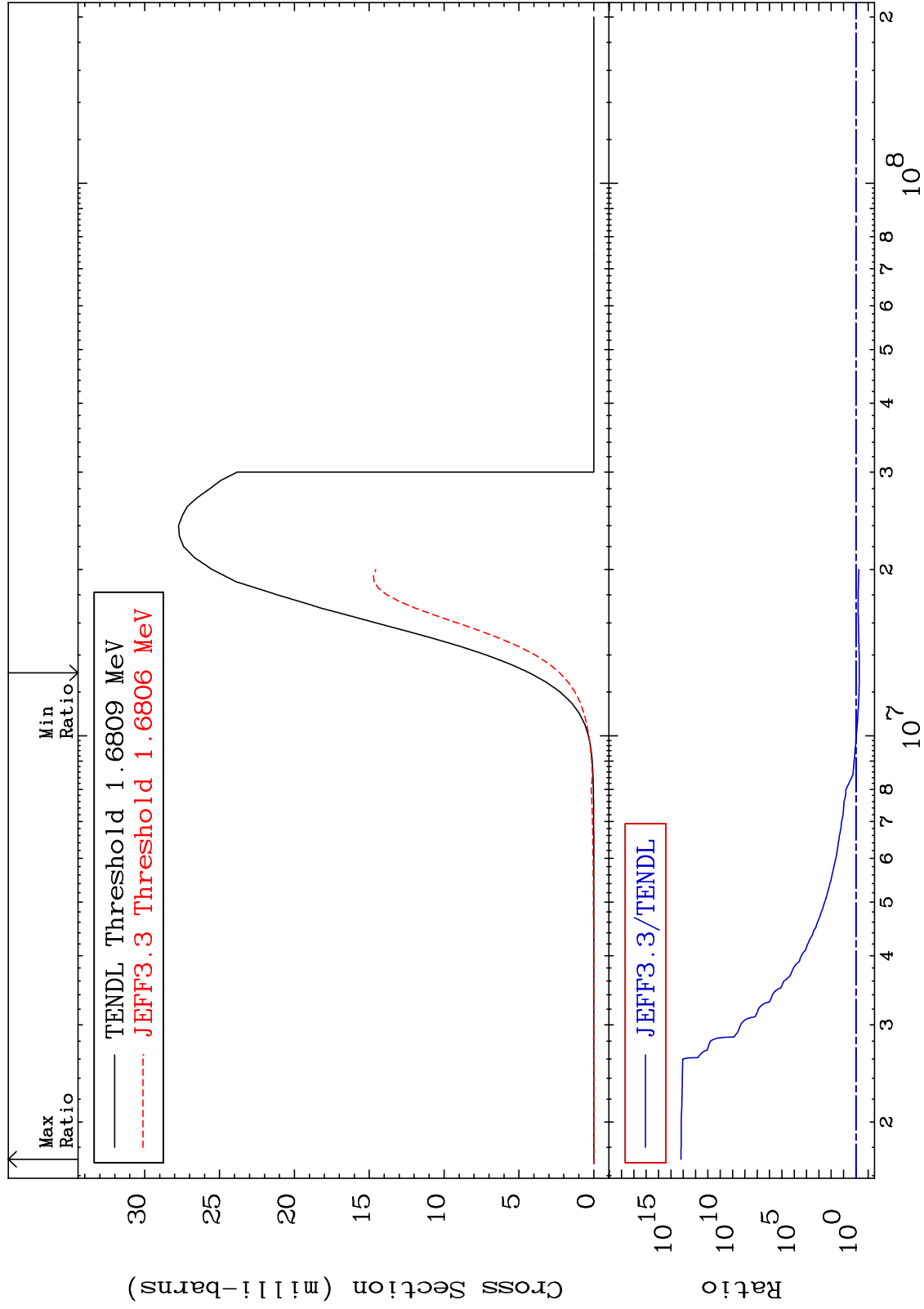
MAT 6437

(n,p)

64-Gd-156

Cross Section

-46.96 To 9999. %



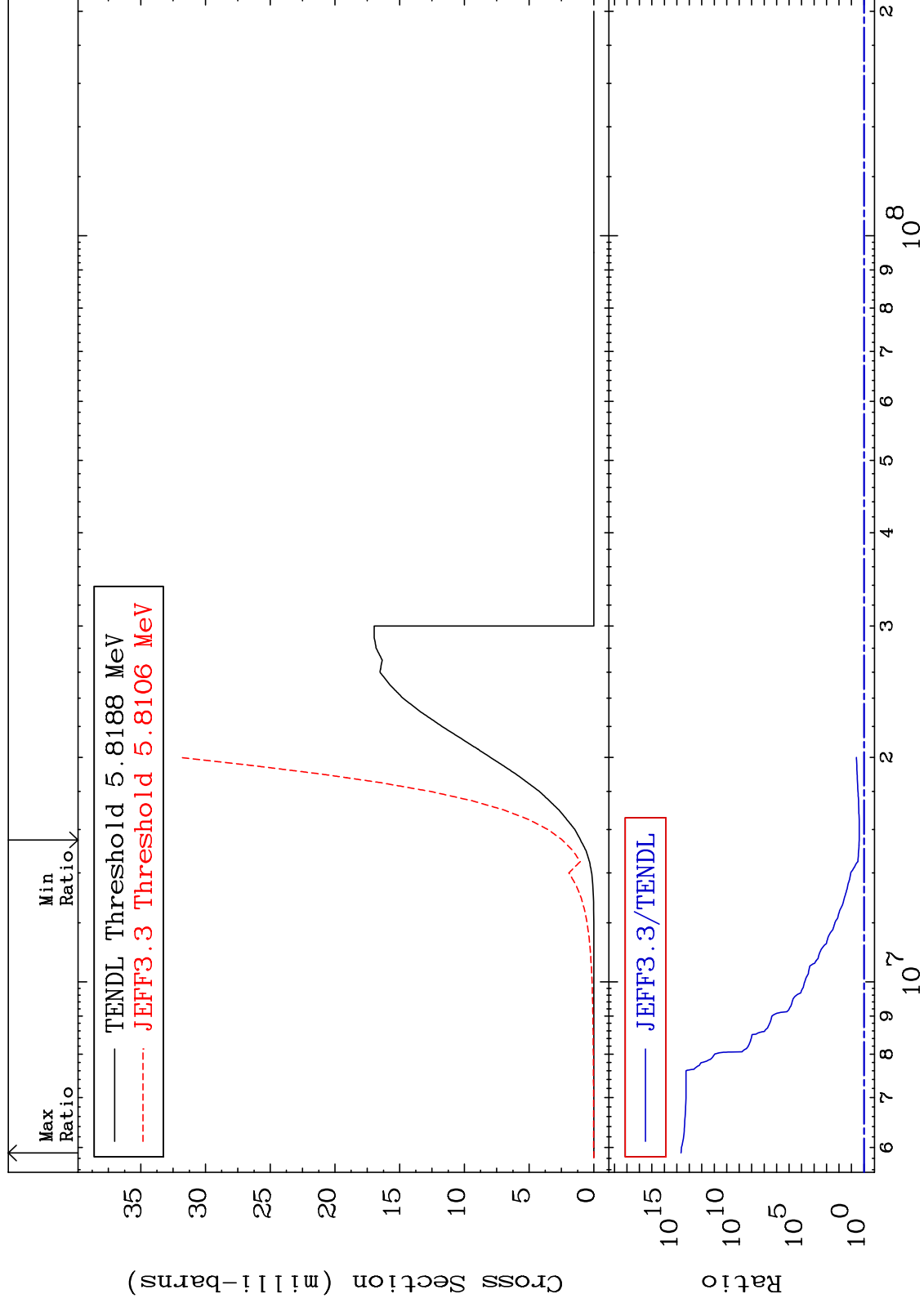
MAT 6437

(n, d)

64-Gd-156

Cross Section

135.8 To 9999. %



22

Incident Energy (eV)

64-Gd-156

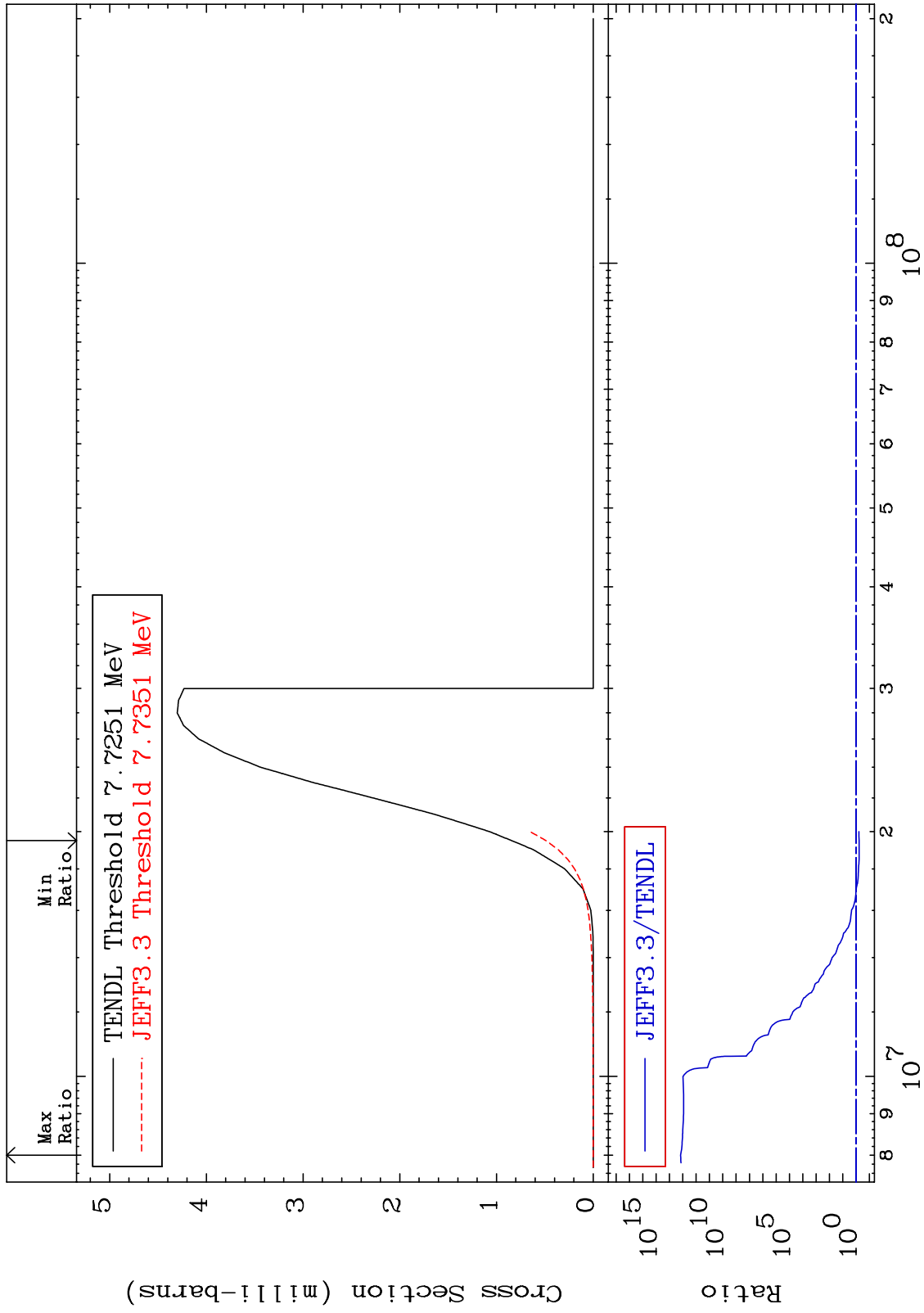
MAT 6437

(n, t)

64-Gd-156

Cross Section

-42.22 To 9999. %



23

Incident Energy (eV)

64-Gd-156



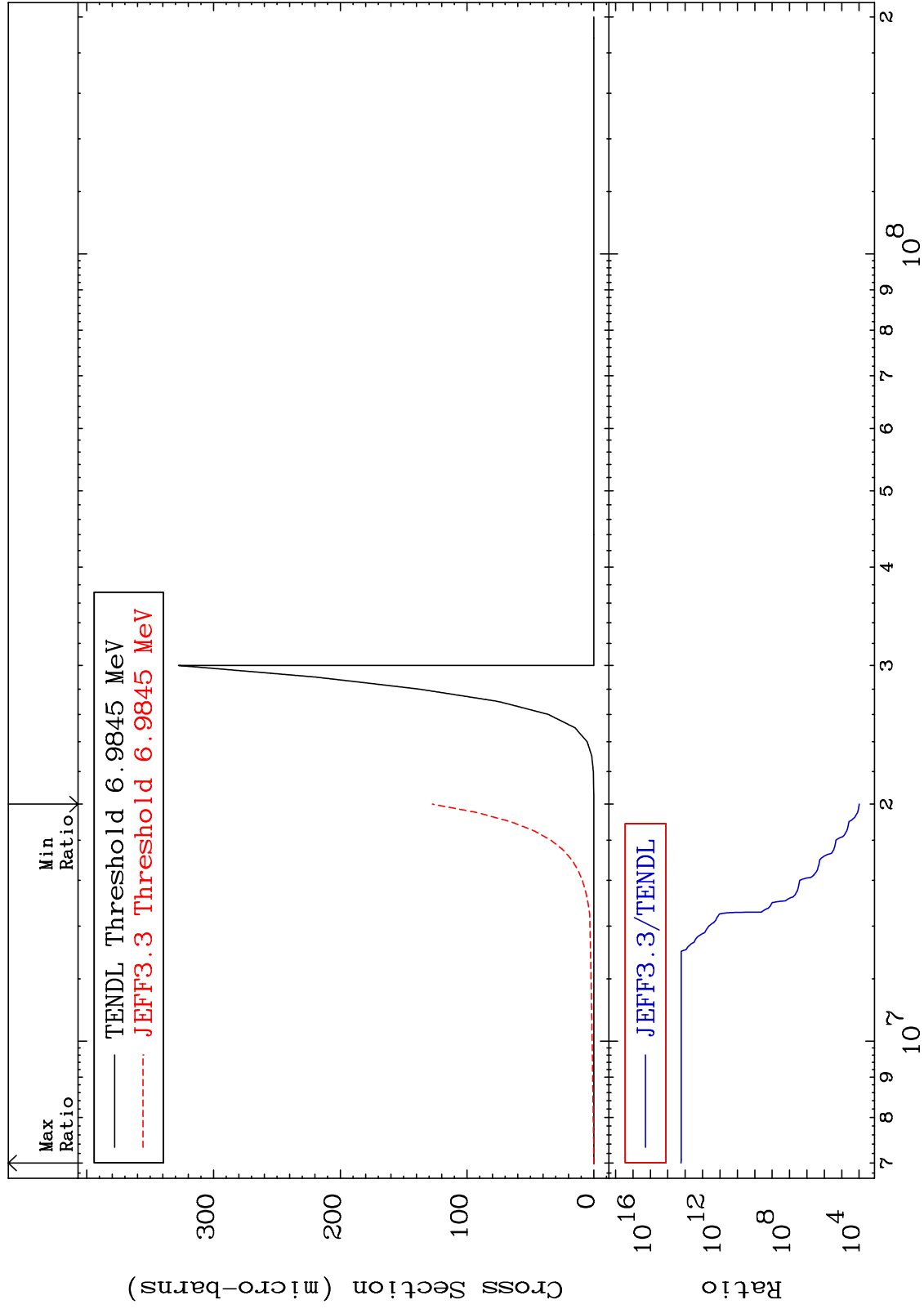
MAT 6437

(n, He-3)

64-Gd-156

Cross Section

9999. To 9999. %



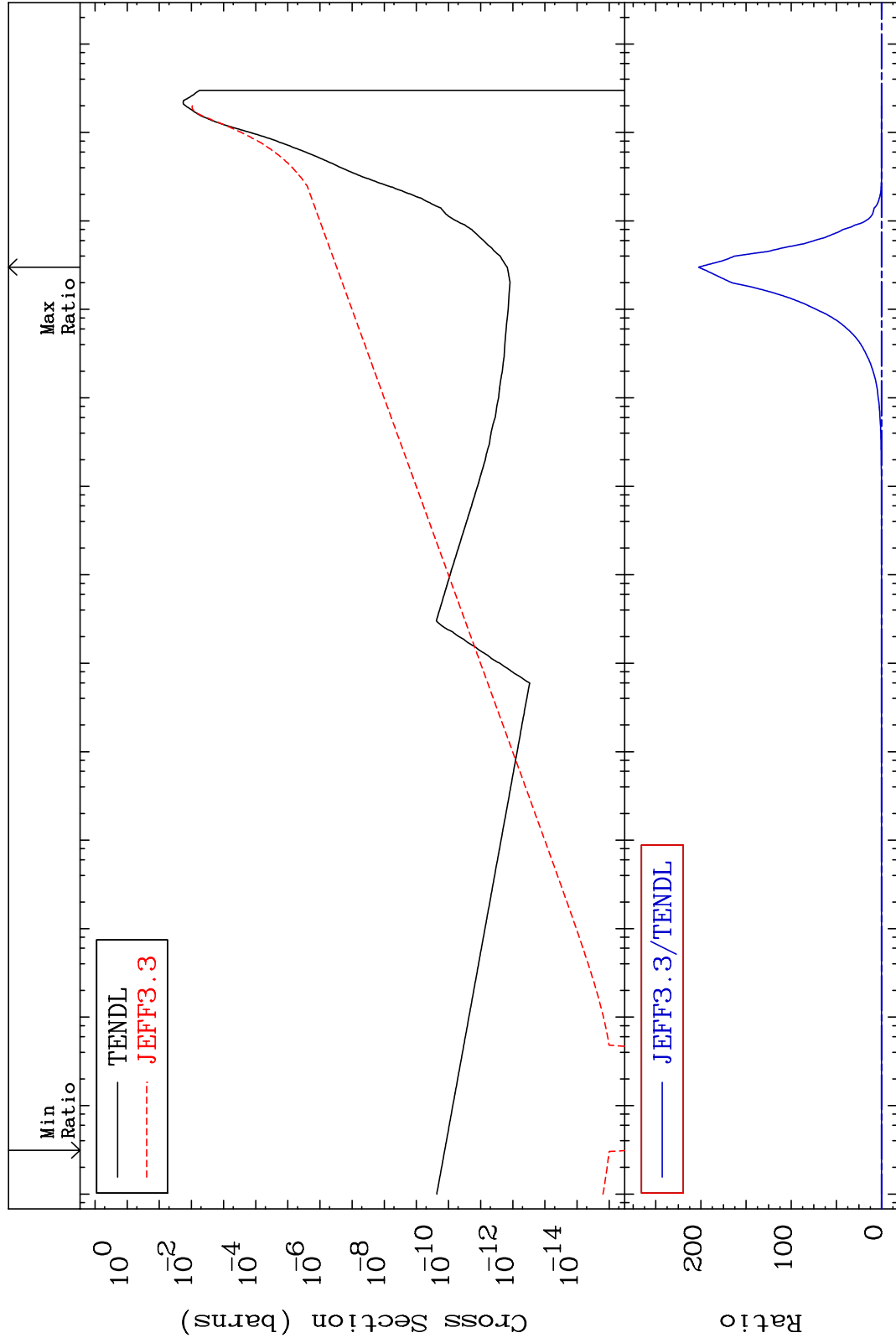
MAT 6437

(n,  $\alpha$ )

64-Gd-156

Cross Section

-100.0 To 9999. %



Incident Energy (eV)

64-Gd-156

25

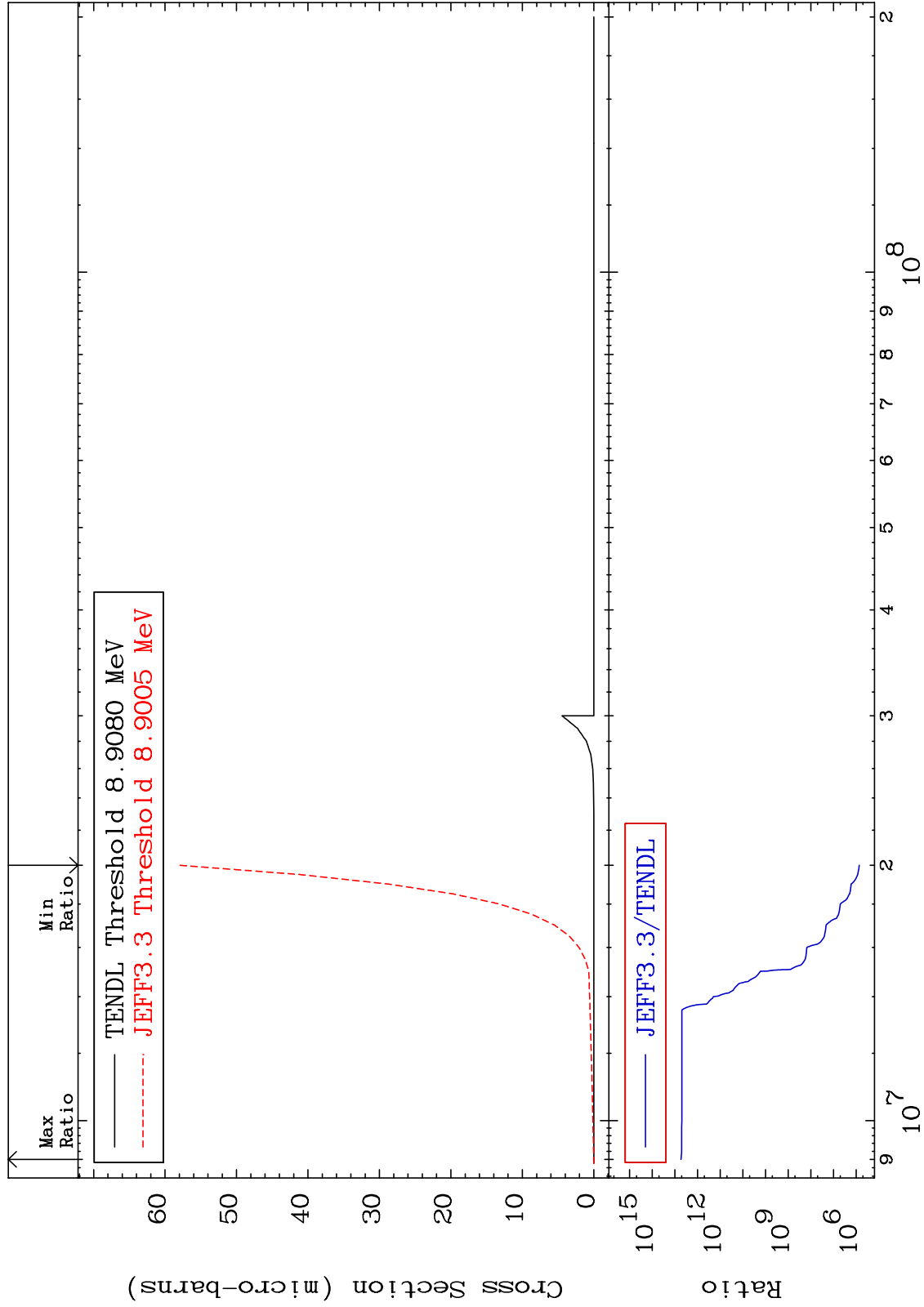
MAT 6437

(n,2p)

64-Gd-156

Cross Section

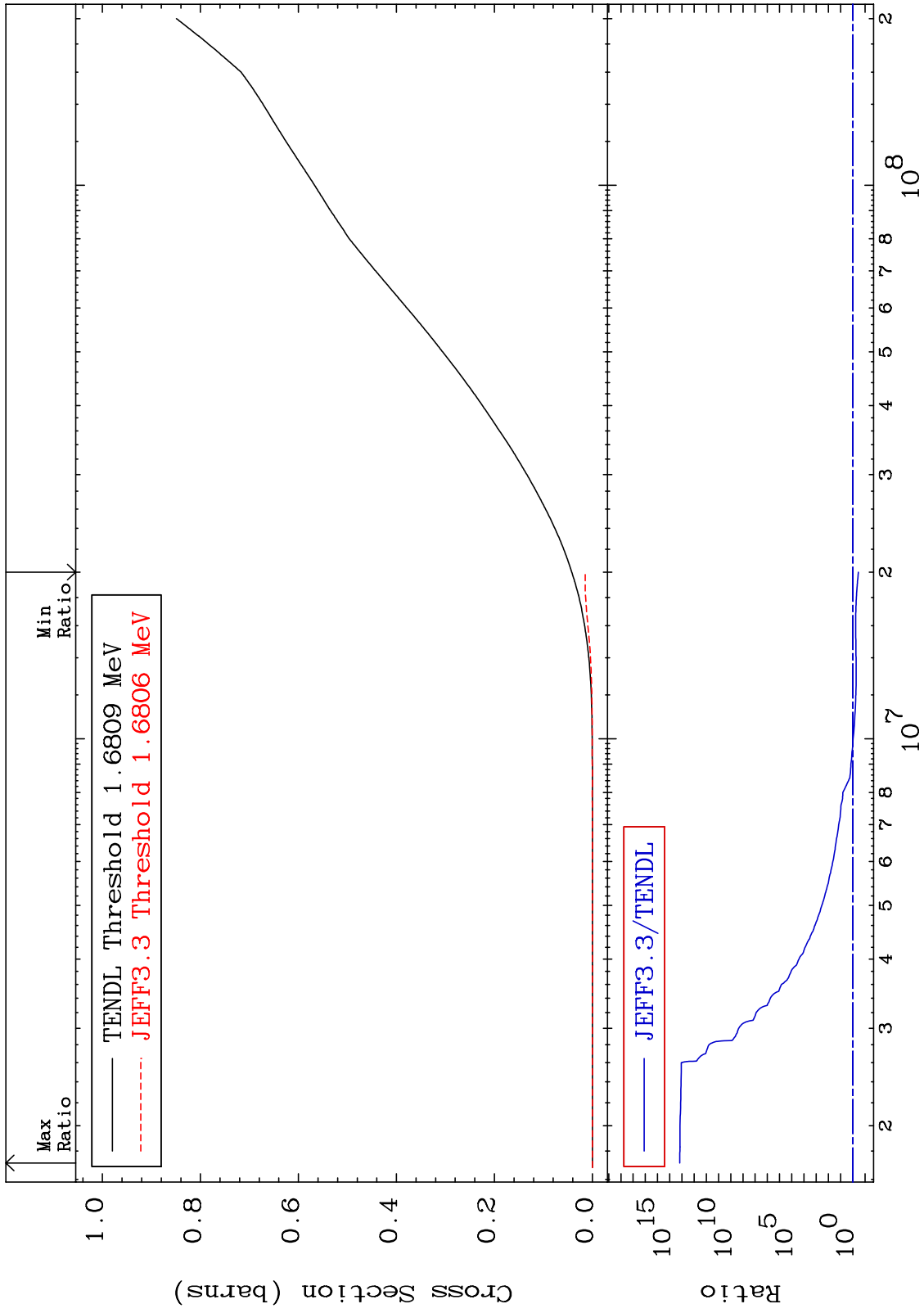
9999. To 9999. %



MAT 6437

Hydrogen Production  
Cross Section

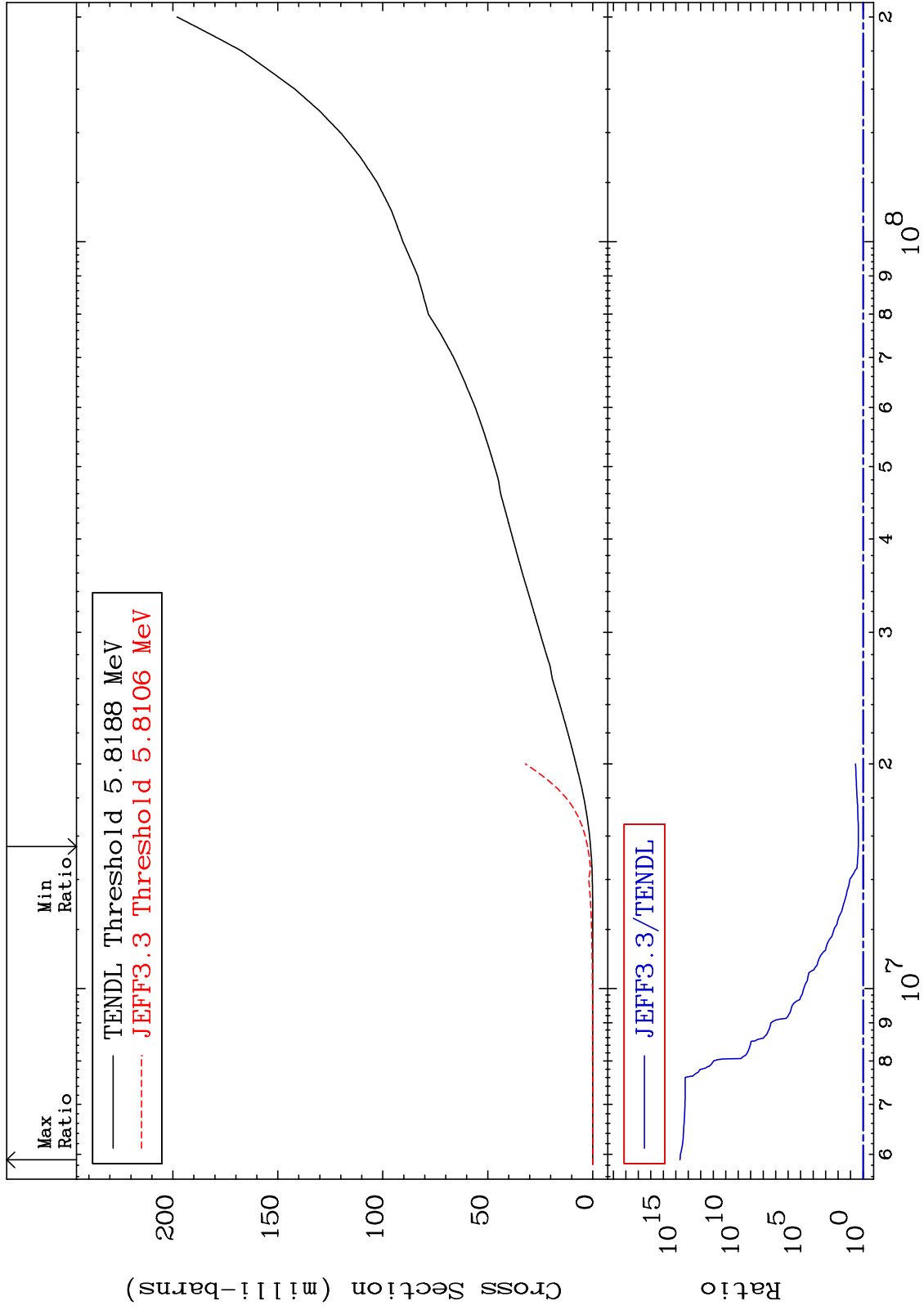
64-Gd-156  
-65.15 To 9999. %



MAT 6437

Deuterium Production  
Cross Section

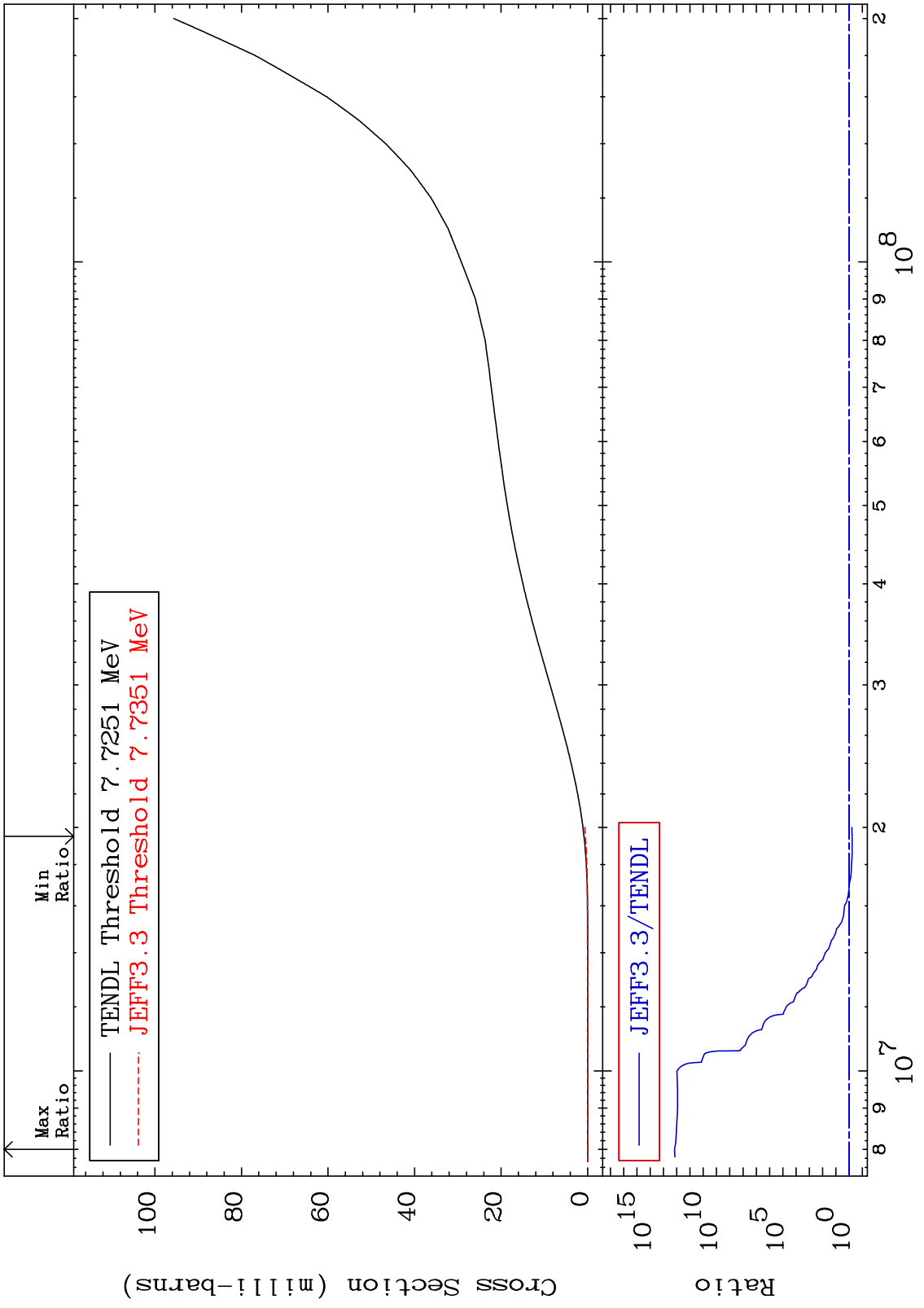
64-Gd-156  
135.8 To 9999. %



MAT 6437

Tritium Production  
Cross Section

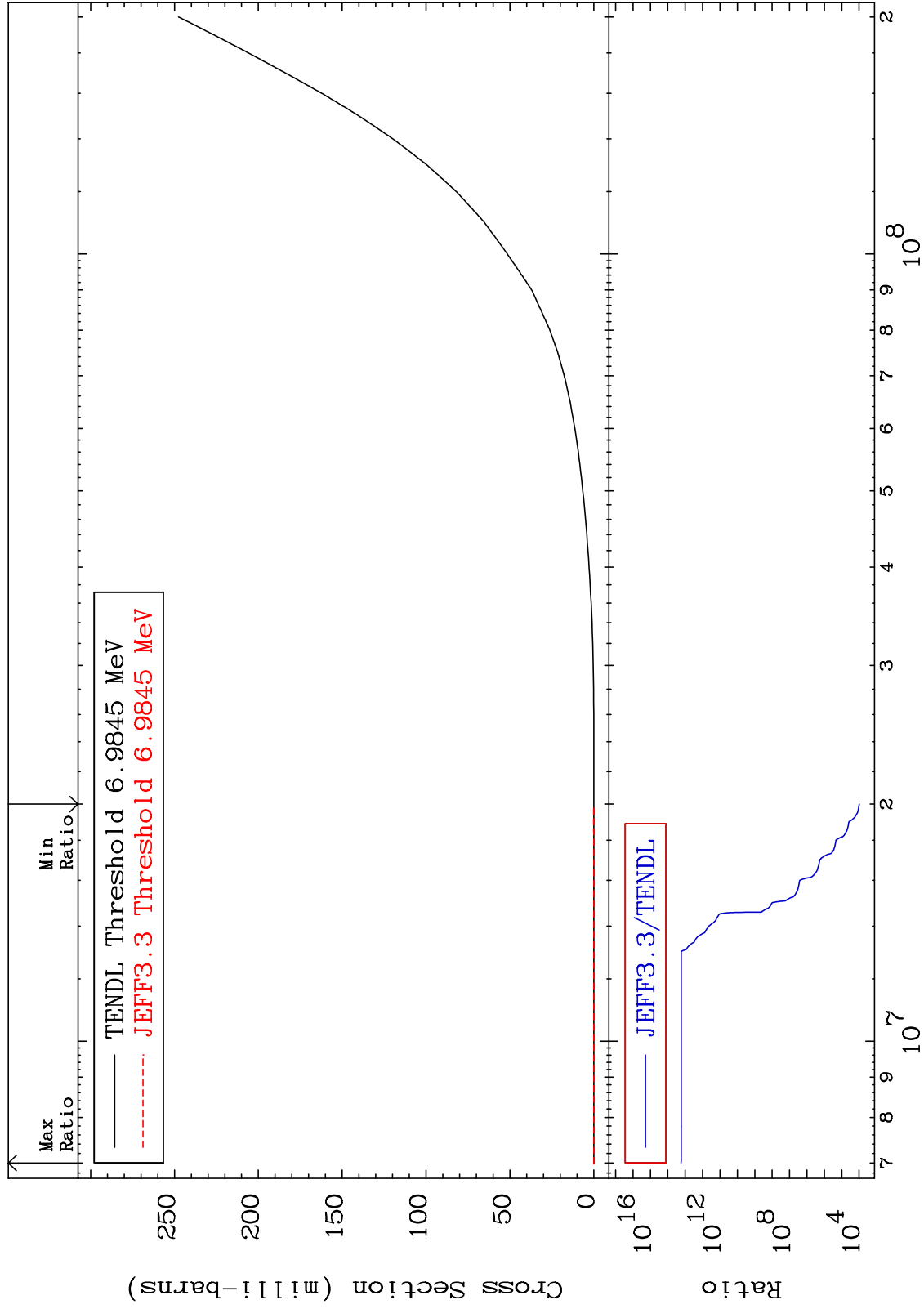
64-Gd-156  
-42.23 To 9999. %



MAT 6437

He-3 Production  
Cross Section

64-Gd-156  
9999. To 9999. %



30

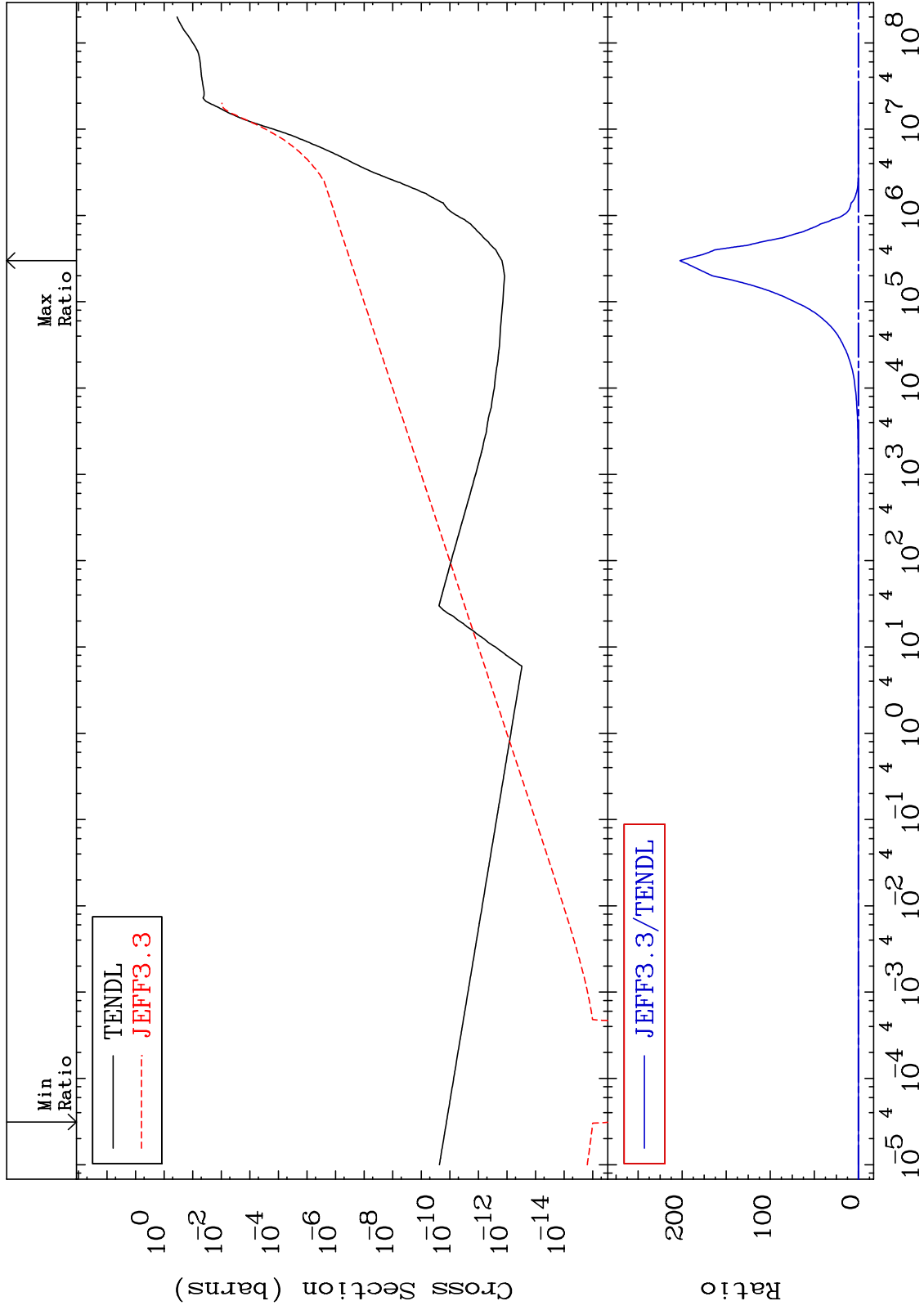
Incident Energy (eV)

64-Gd-156

MAT 6437

He-4 Production  
Cross Section

64-Gd-156  
-100.0 To 9999. %

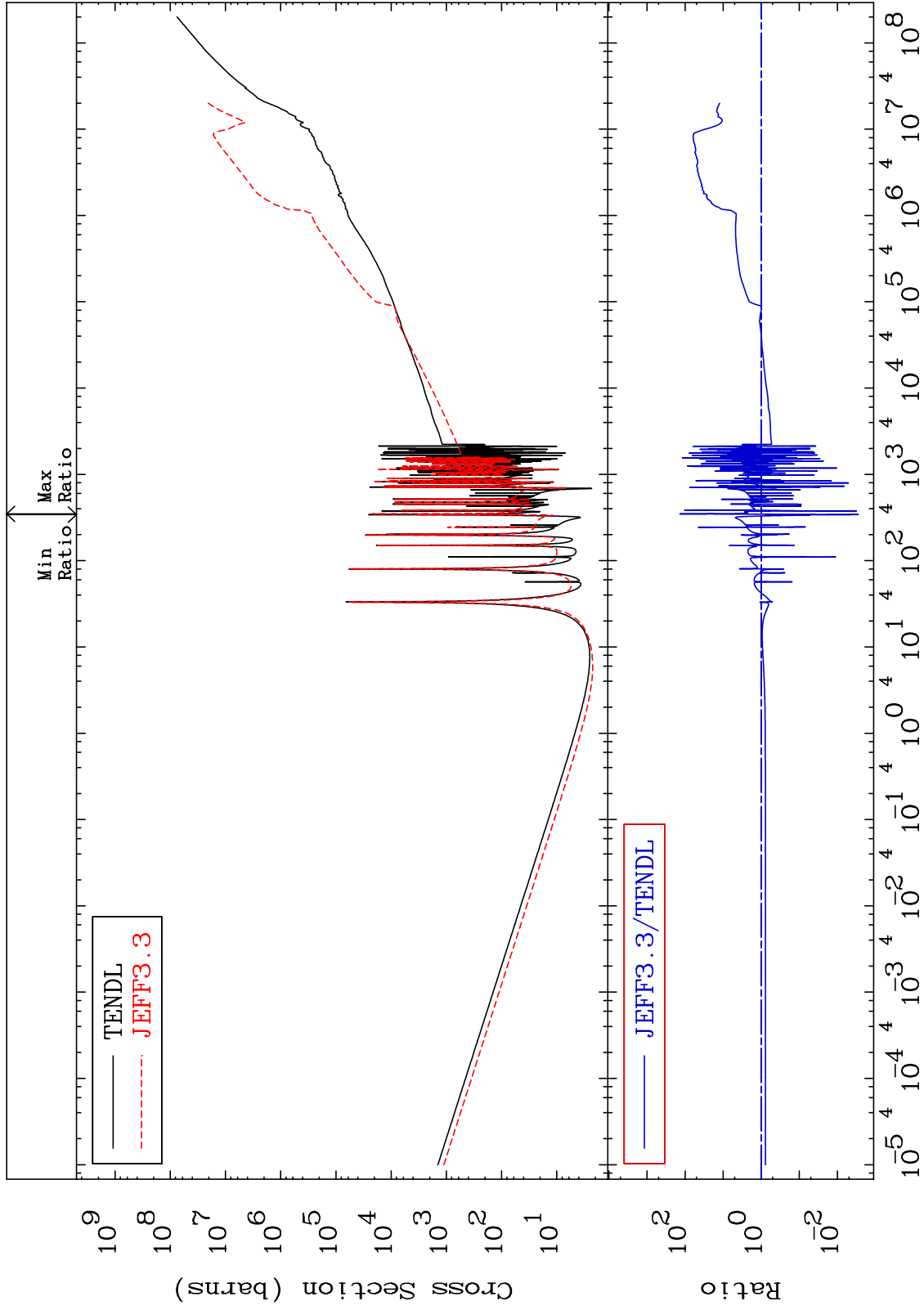




MAT 6437

Kerma total (eV-barns)  
Cross Section

64-Gd-156  
-99.72 To 9999. %



32

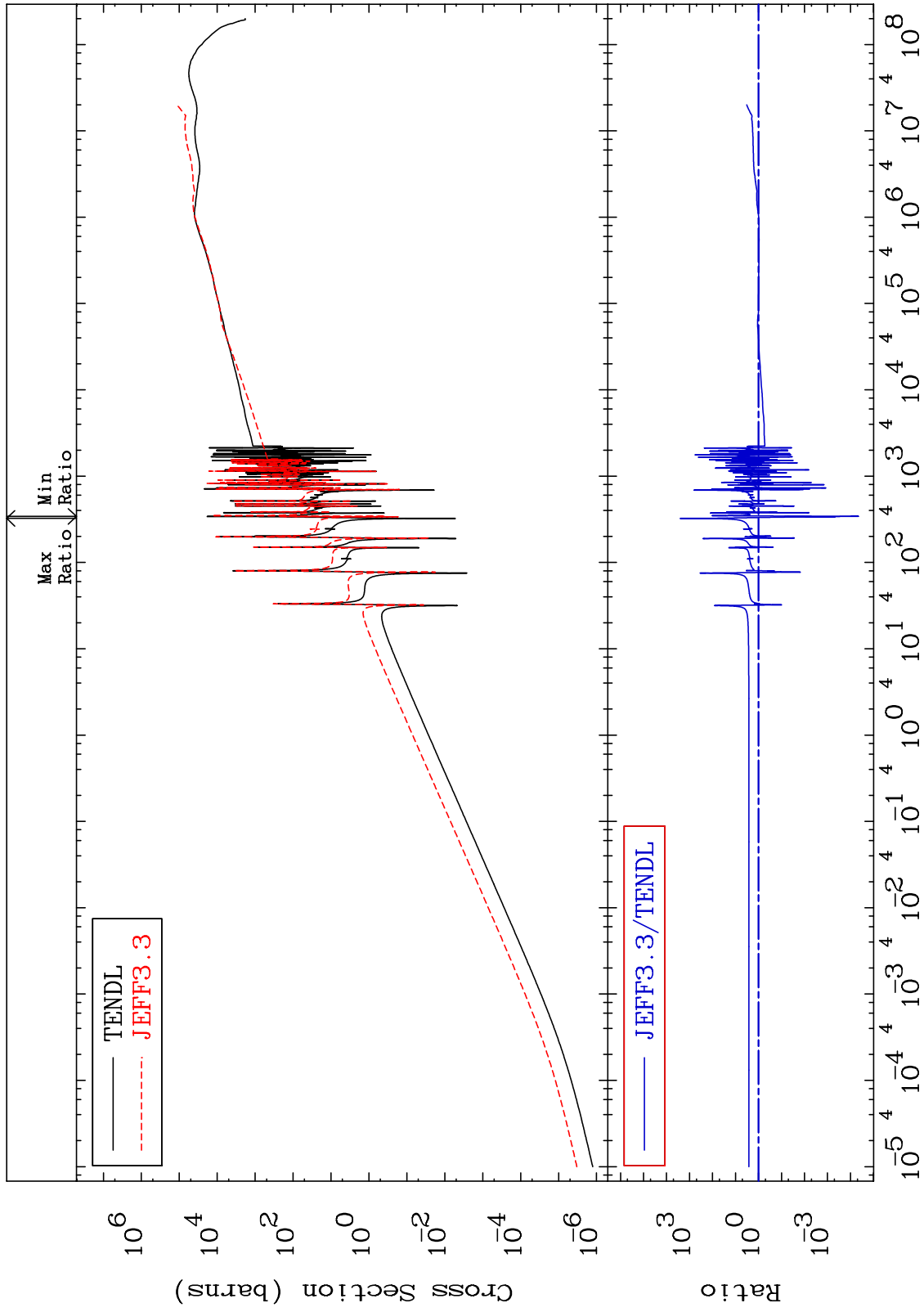
Incident Energy (eV)

64-Gd-156

MAT 6437

Kerma elastic  
Cross Section

64-Gd-156  
-100.0 To 9999. %



33

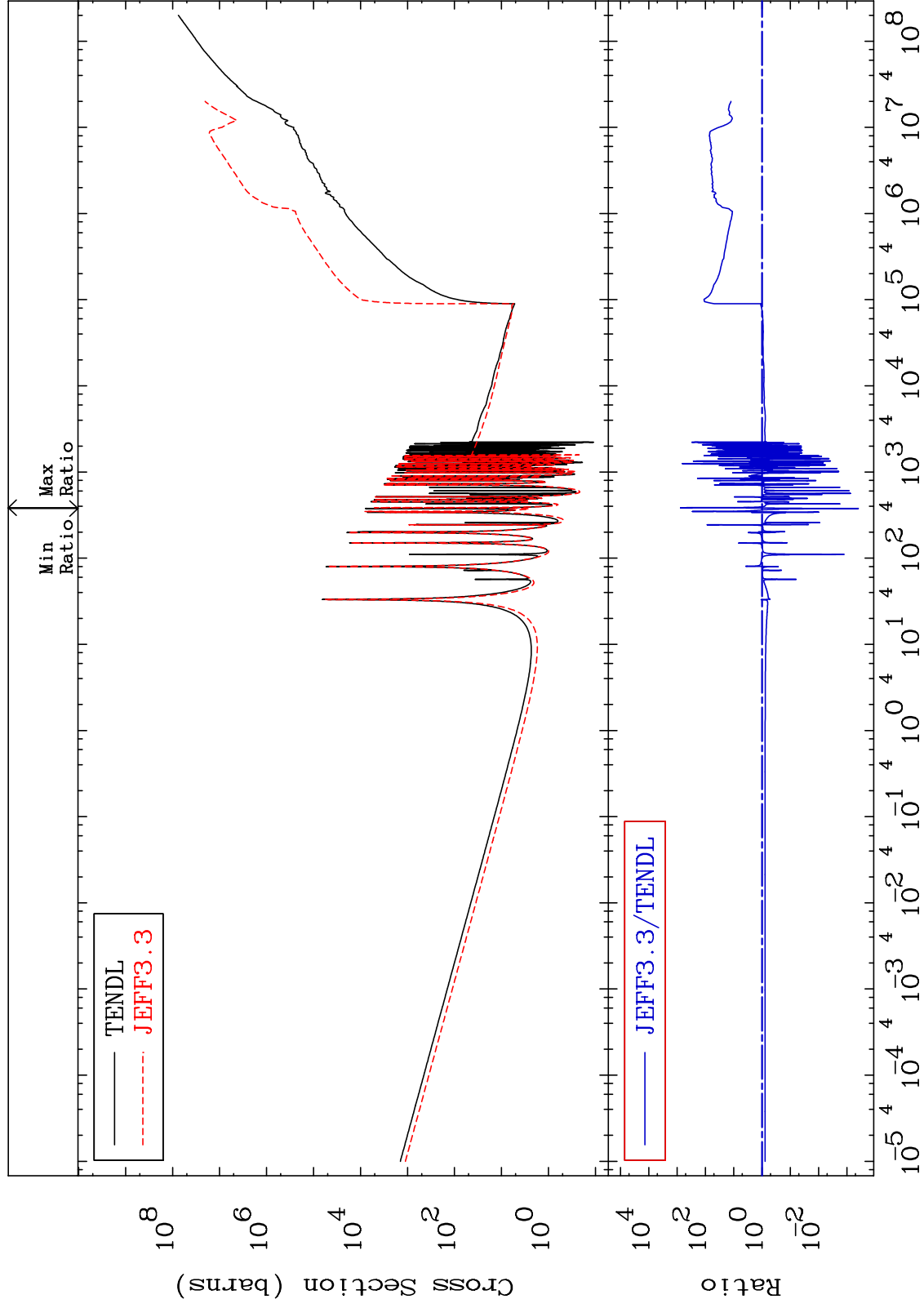
Incident Energy (eV)

64-Gd-156

MAT 6437

Kerma non-elastic (all but mt2)  
Cross Section

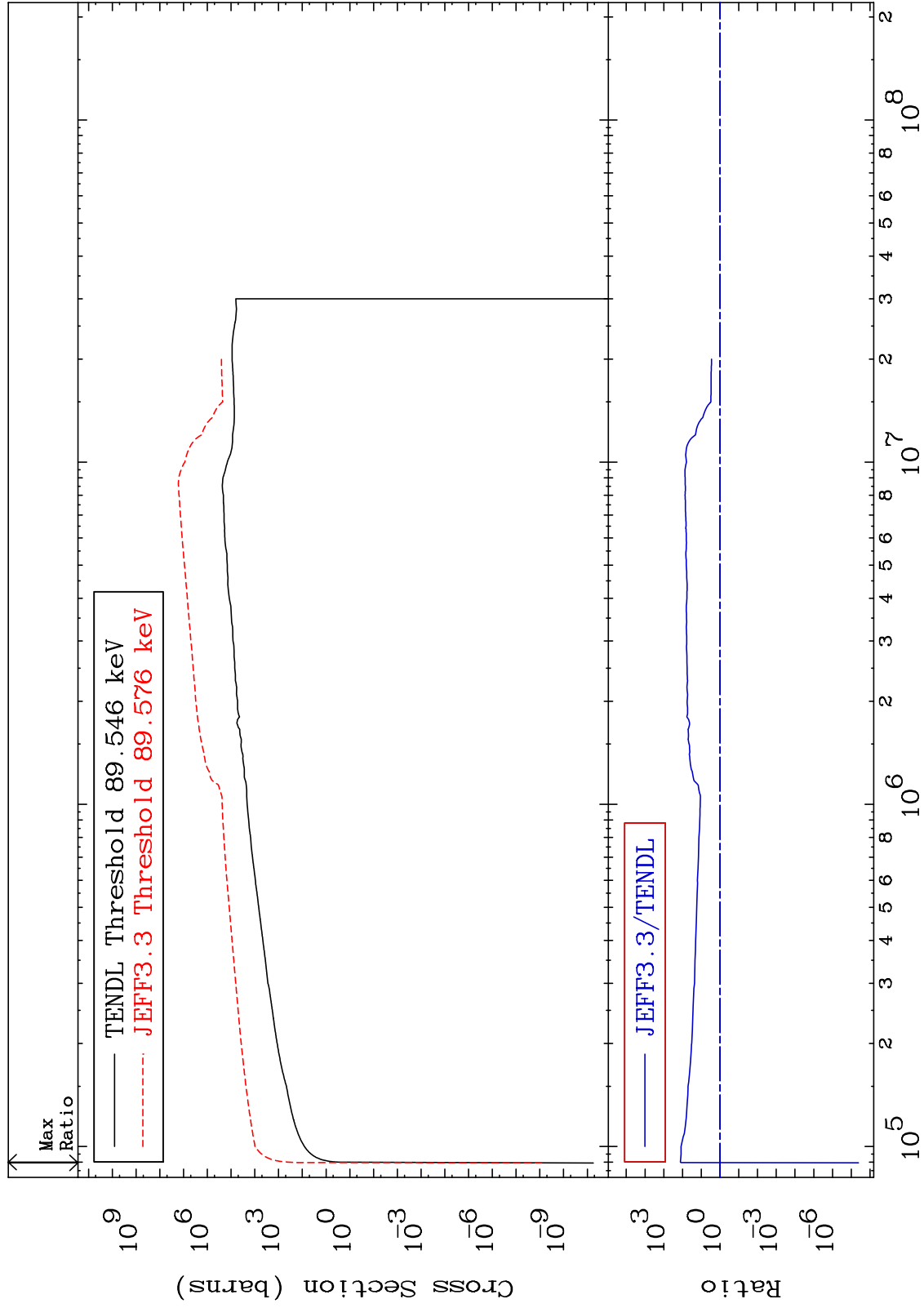
64-Gd-156  
-99.96 To 9999. %



MAT 6437

Kerma inelastic (mt51-91)  
Cross Section

64-Gd-156  
-100.0 To 9999. %



35

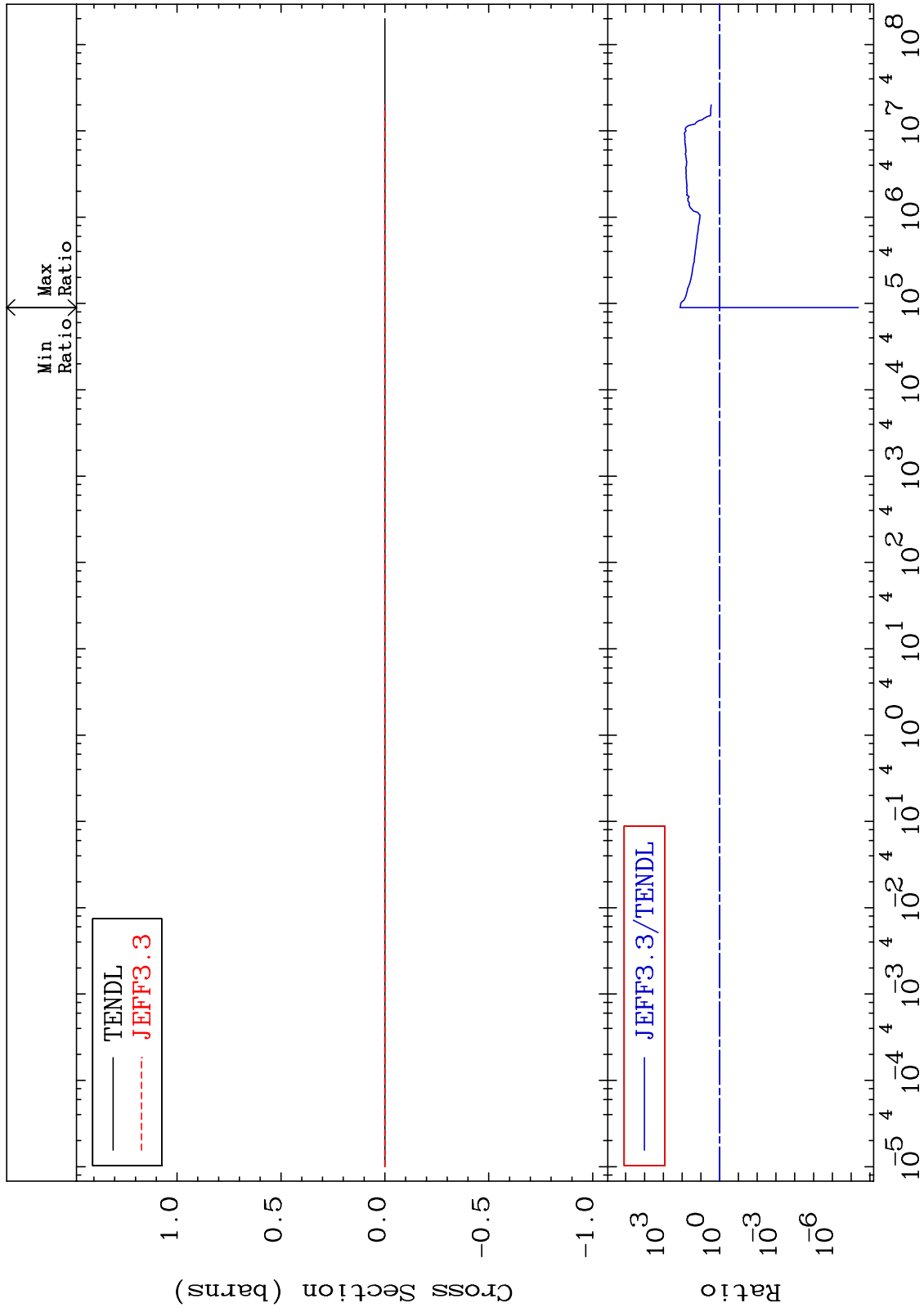
Incident Energy (eV)

64-Gd-156

MAT 6437

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

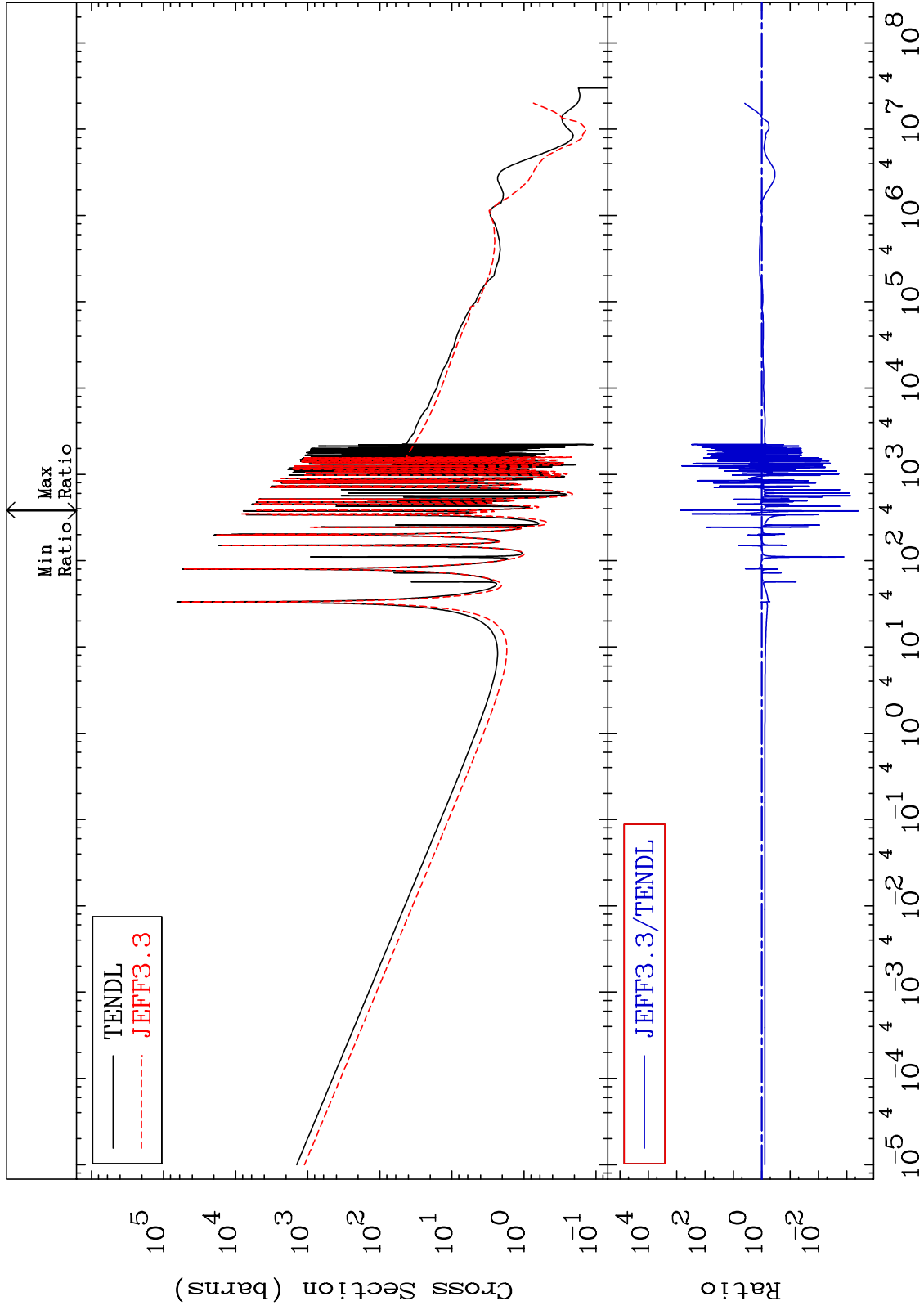
64-Gd-156  
-100.0 To 9999. %



MAT 6437

Kerma capture (mt102)  
Cross Section

64-Gd-156  
-99.96 To 9999. %



37

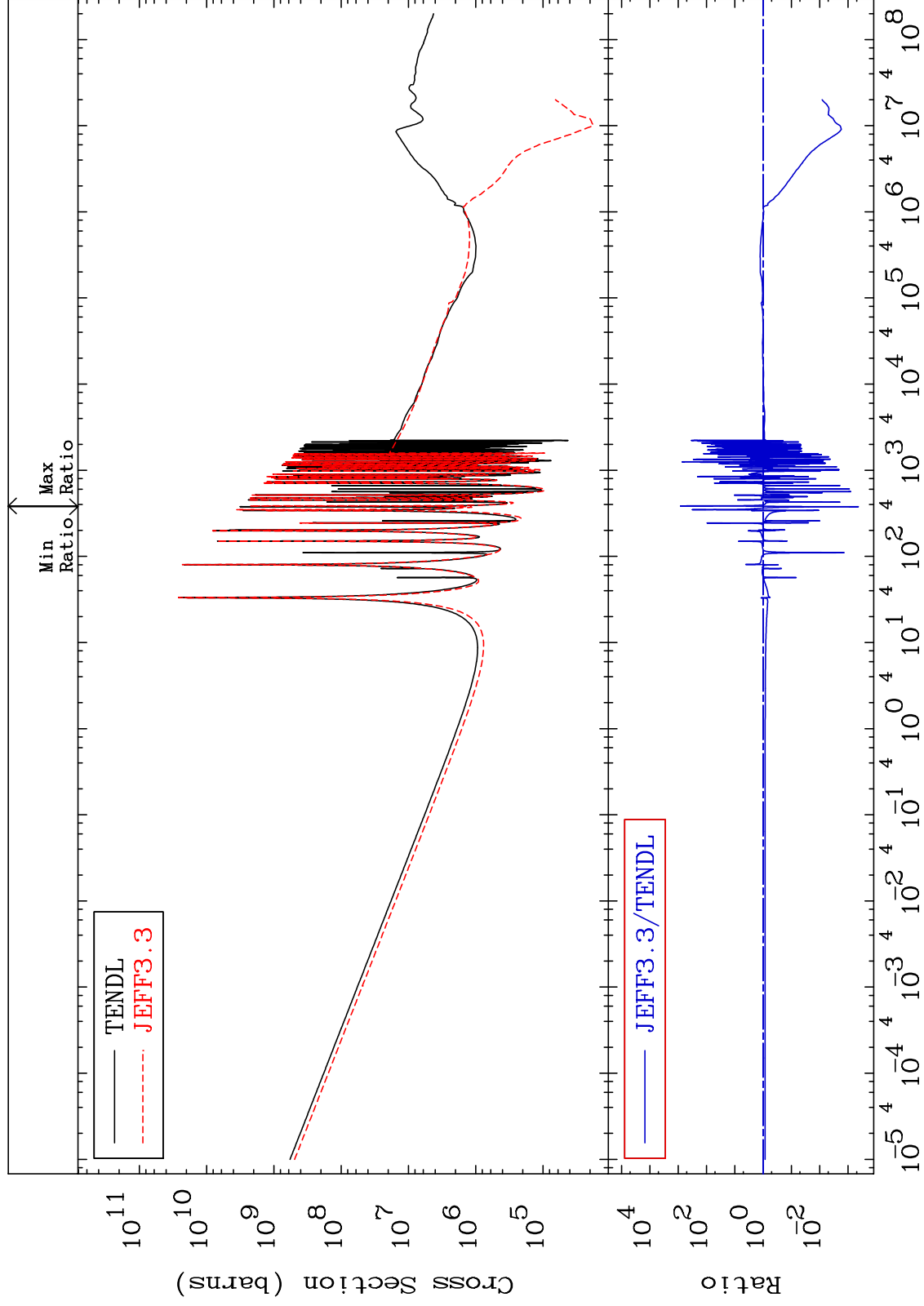
Incident Energy (eV)

64-Gd-156

MAT 6437

Total photon (eV-barns)  
Cross Section

64-Gd-156  
-99.96 To 9999. %



38

Incident Energy (eV)

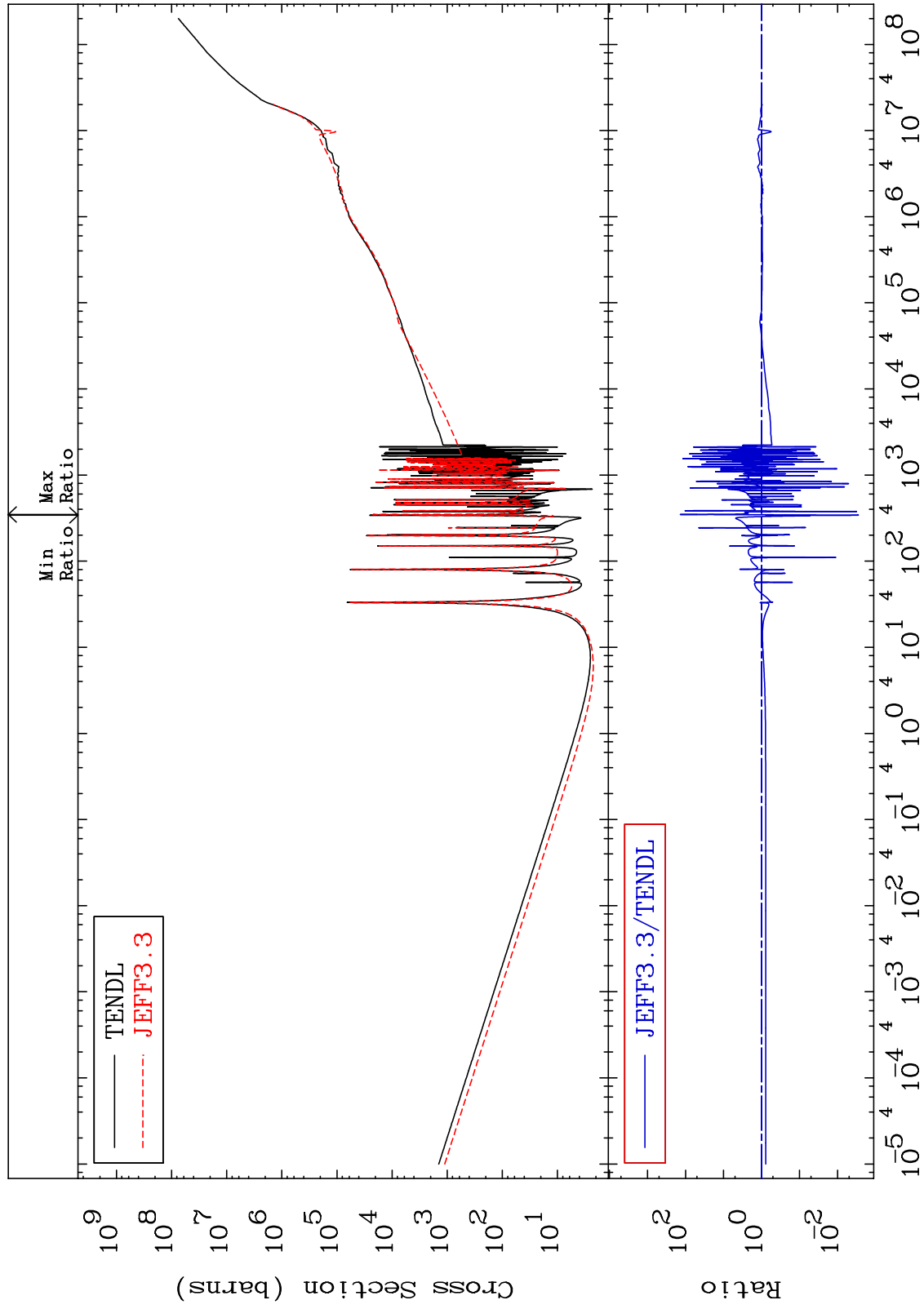
64-Gd-156

MAT 6437

Total kinematic kerma (high limit)

64-Gd-156

-99.72 To 9999. %

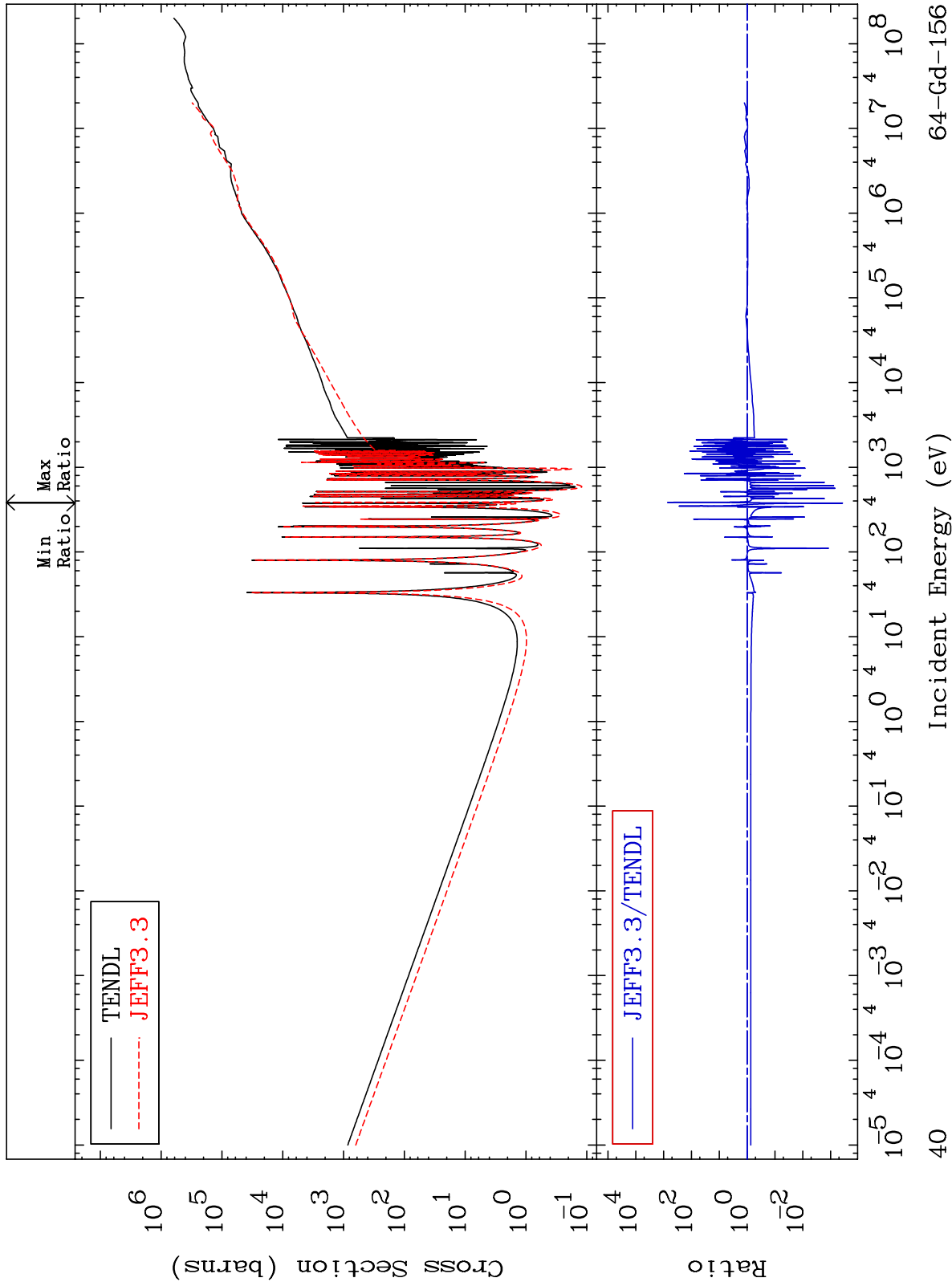




MAT 6437

Dpa total (eV-barns)  
Cross Section

64-Gd-156  
-99.96 To 9999. %



40

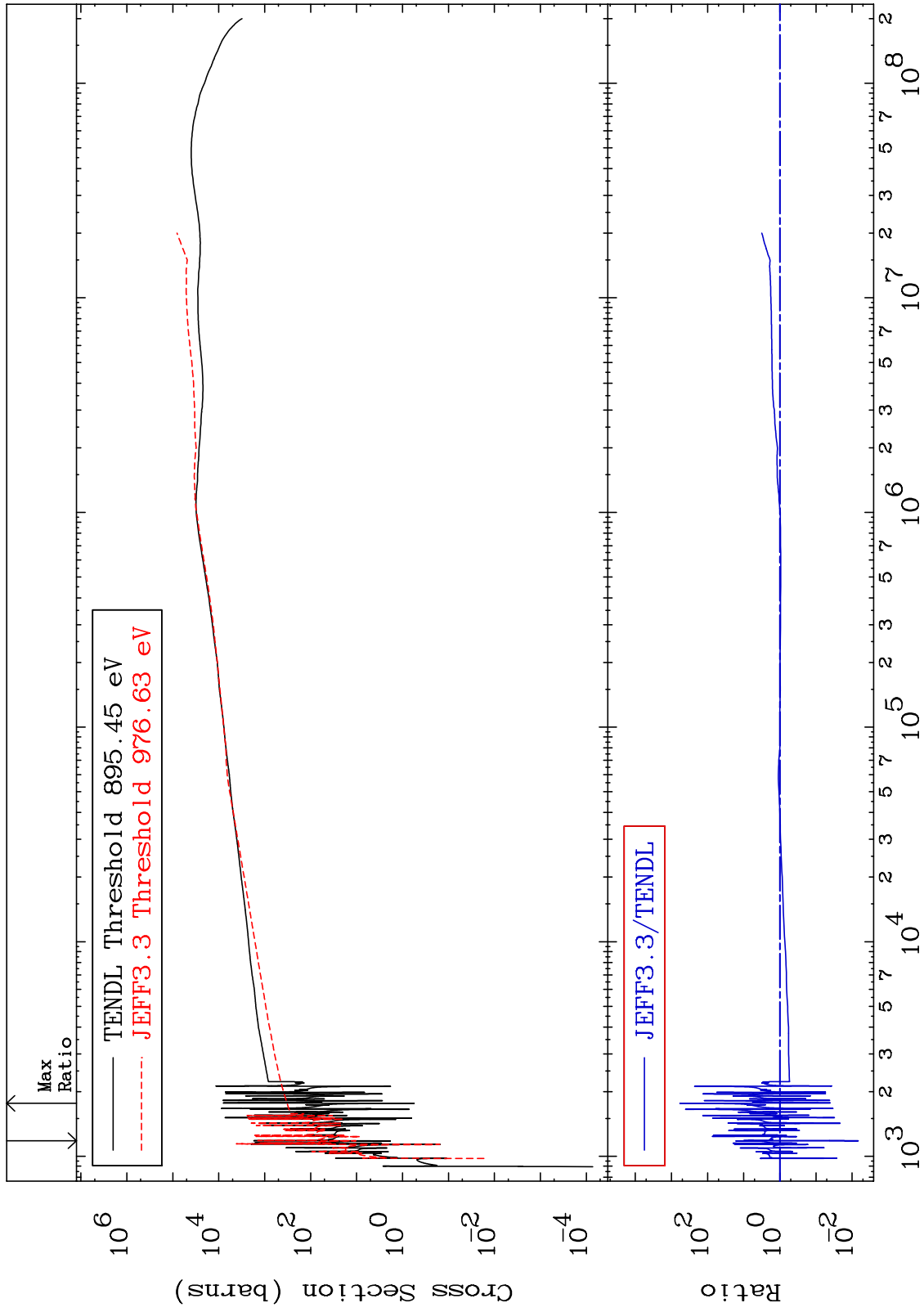
Incident Energy (eV)

64-Gd-156

MAT 6437

Dpa elastic (mt2)  
Cross Section

64-Gd-156  
-99.33 To 9999. %



41

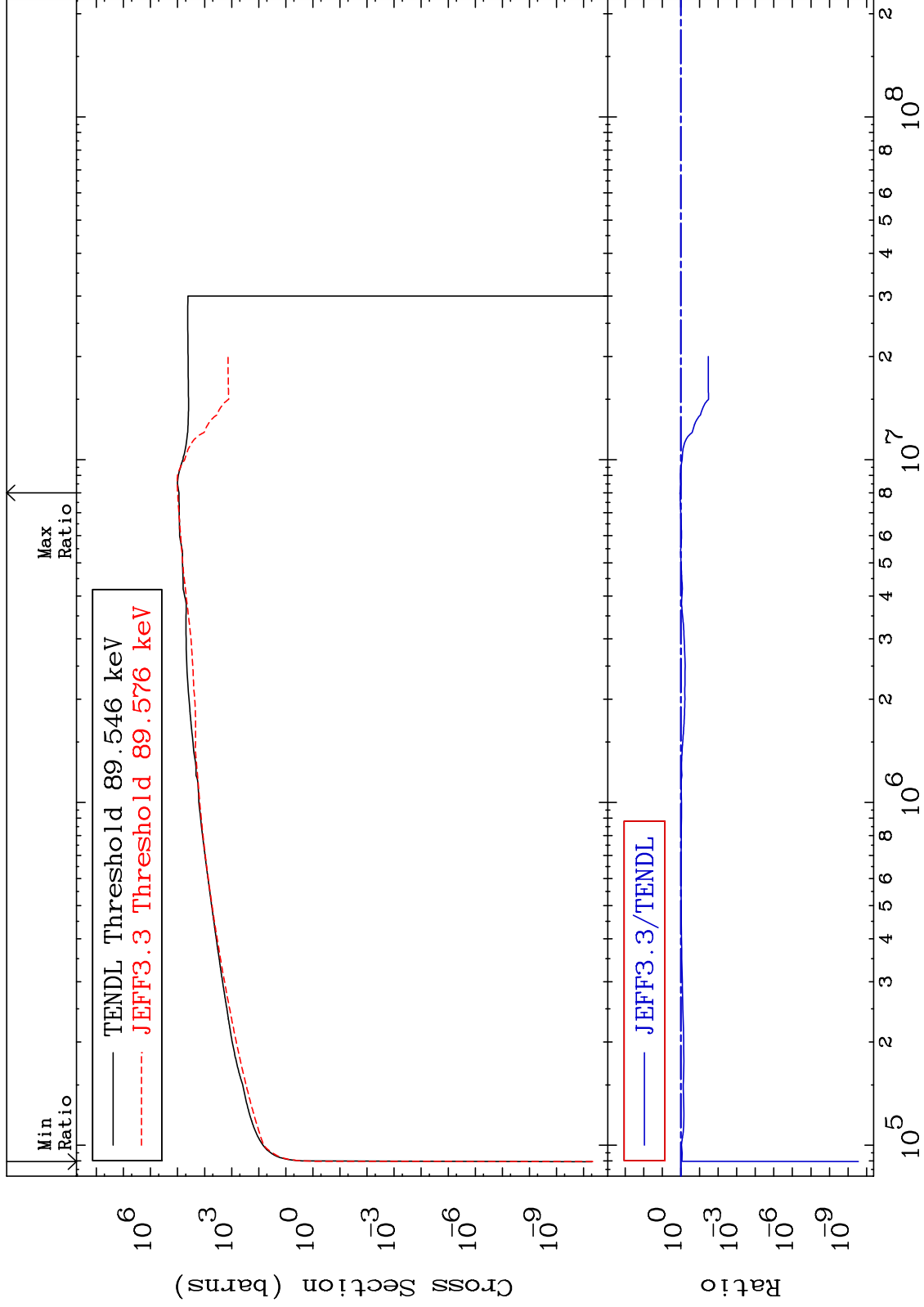
64-Gd-156

64-Gd-156

MAT 6437

Dpa inelastic (mt51-91)  
Cross Section

64-Gd-156  
-100.0 To 11.91 %



42

Incident Energy (eV)

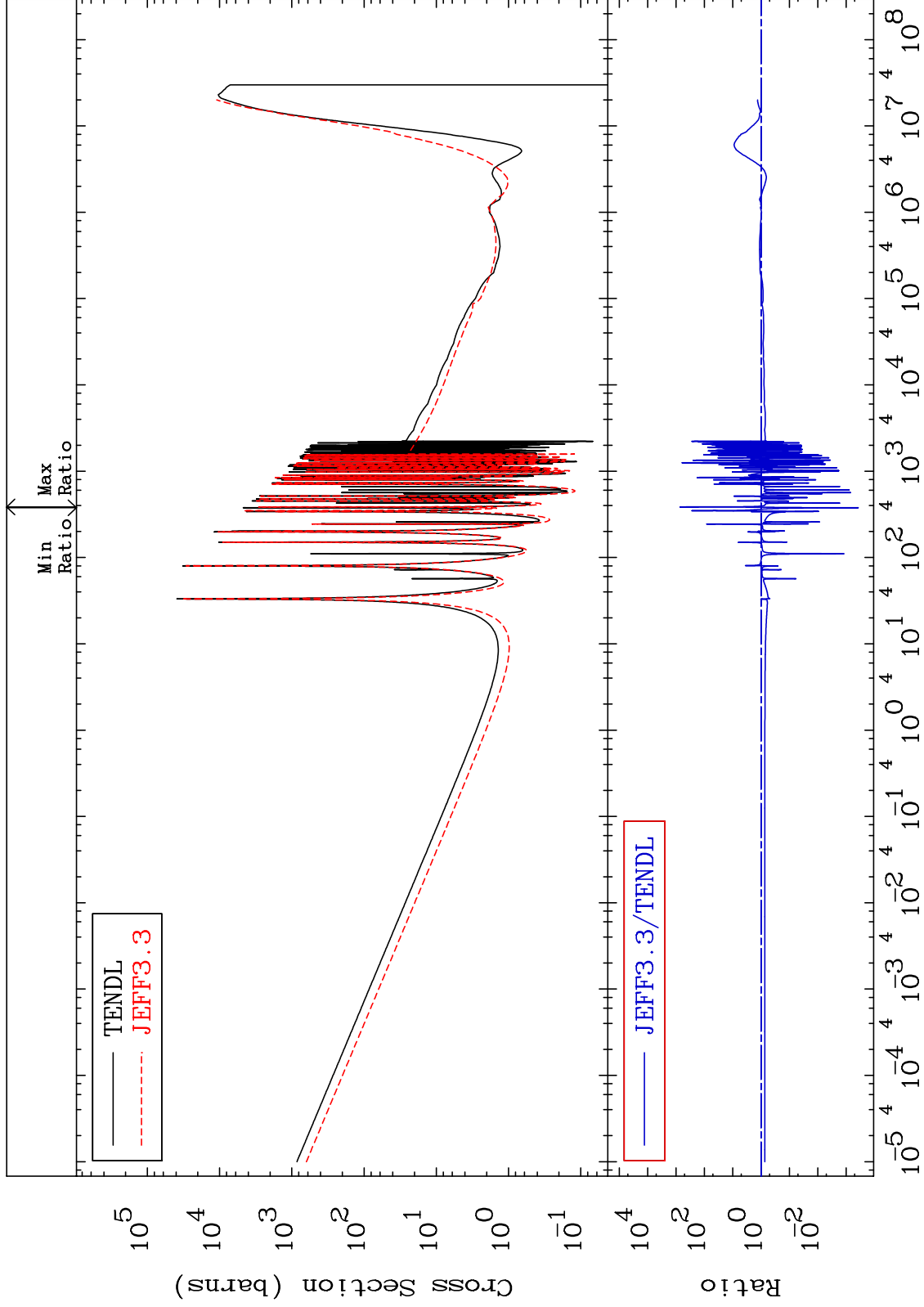
64-Gd-156

MAT 6437

Dpa disappearance (mt102 -120)

64-Gd-156

-99.96 To 9999. %



43

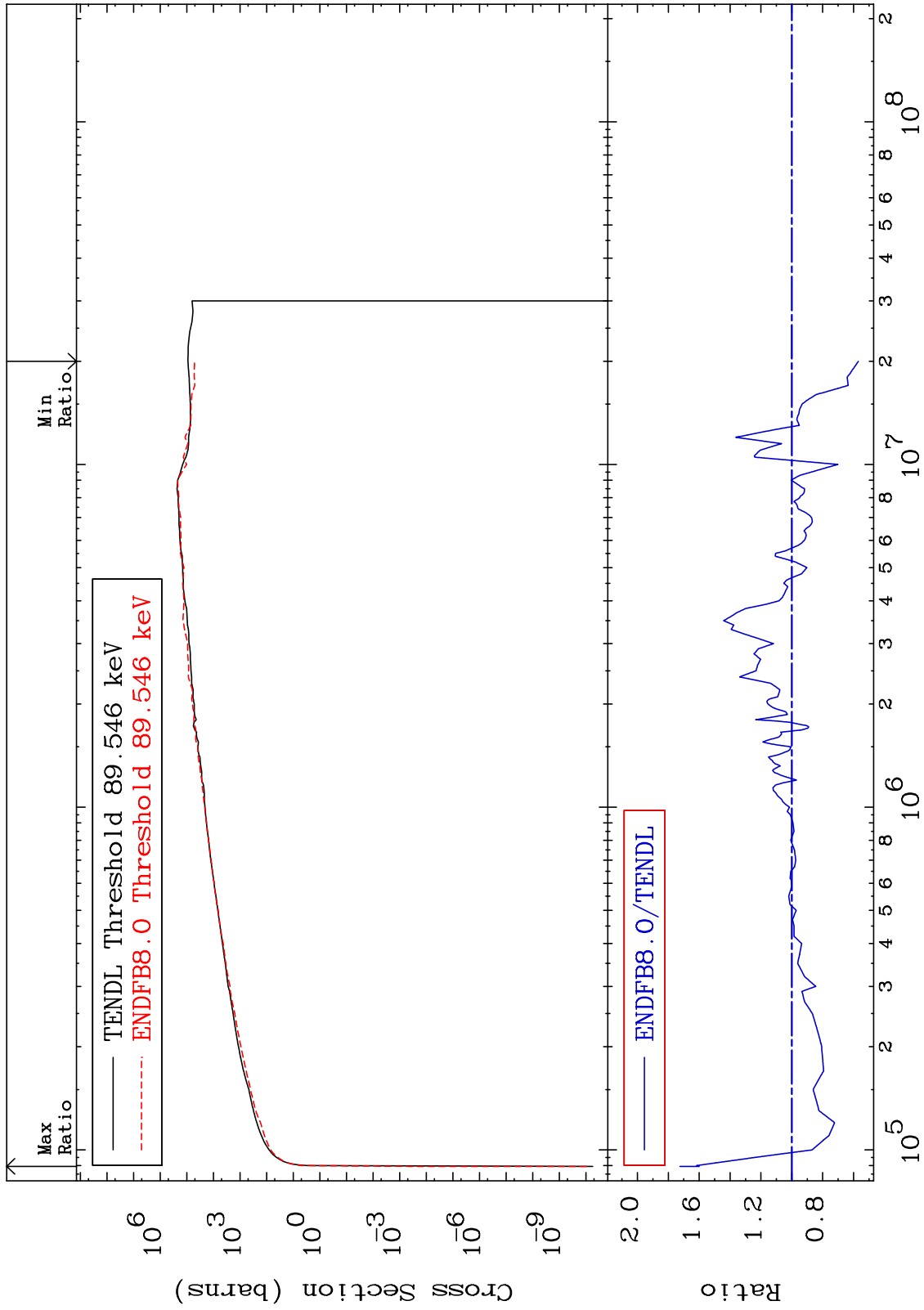
Incident Energy (eV)

64-Gd-156

MAT 6437

Kerma inelastic (mt51-91)  
Cross Section

64-Gd-156  
-43.15 To 72.42 %



44

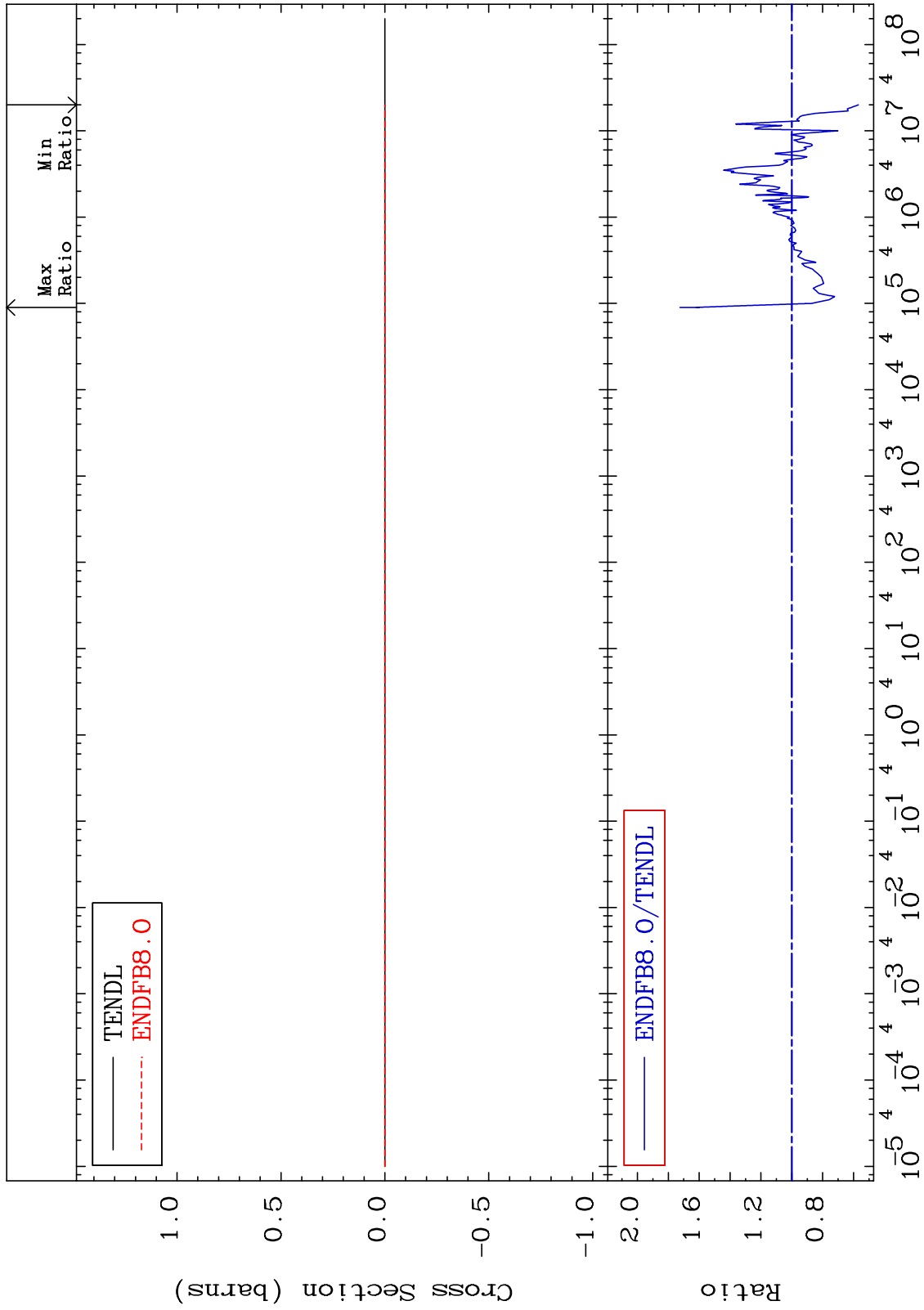
Incident Energy (eV)

64-Gd-156

MAT 6437

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

64-Gd-156  
-43.15 To 72.42 %



45

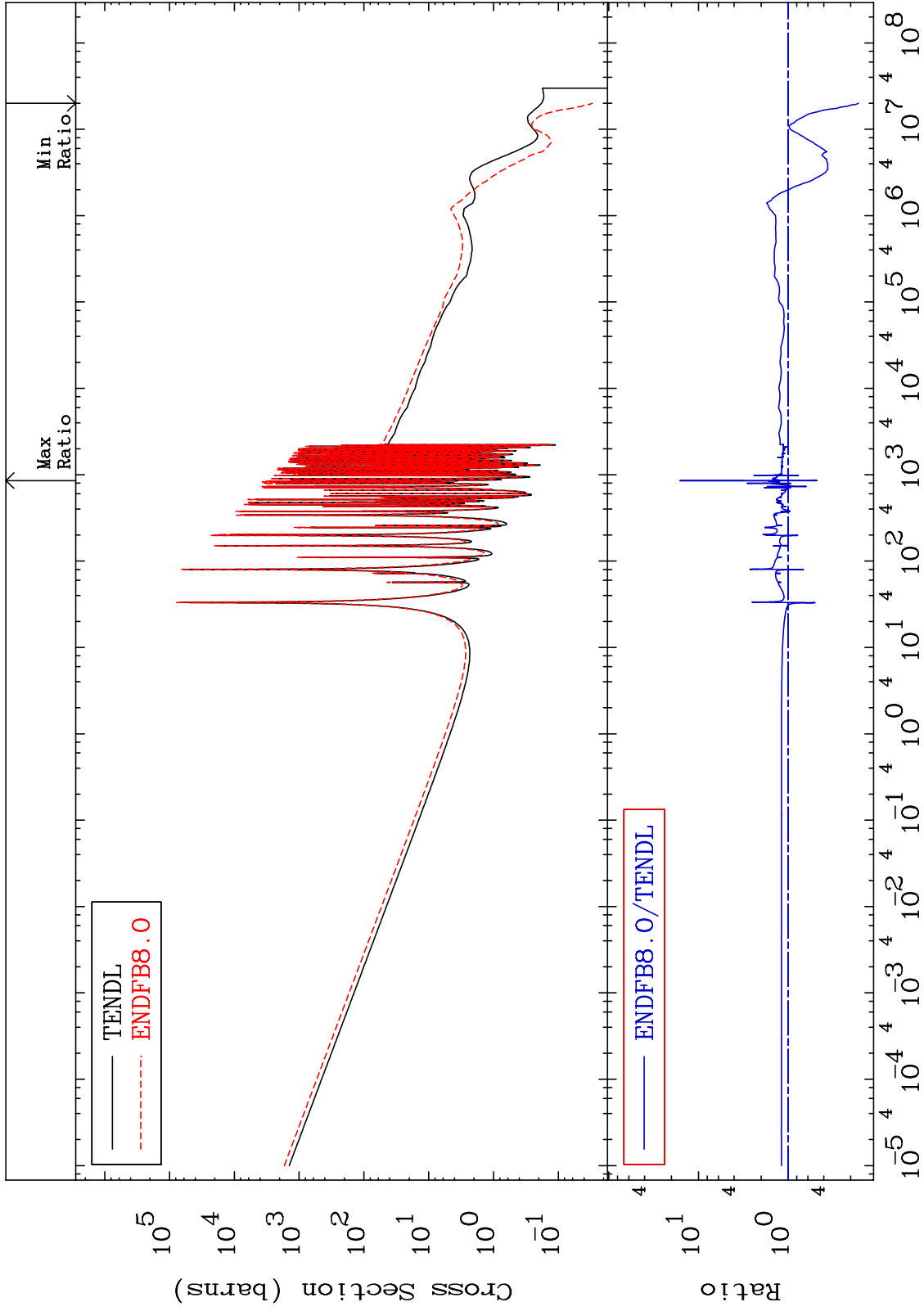
Incident Energy (eV)

64-Gd-156

MAT 6437

Kerma capture (mt102)  
Cross Section

64-Gd-156  
-83.57 To 1516. %



46

Incident Energy (eV)

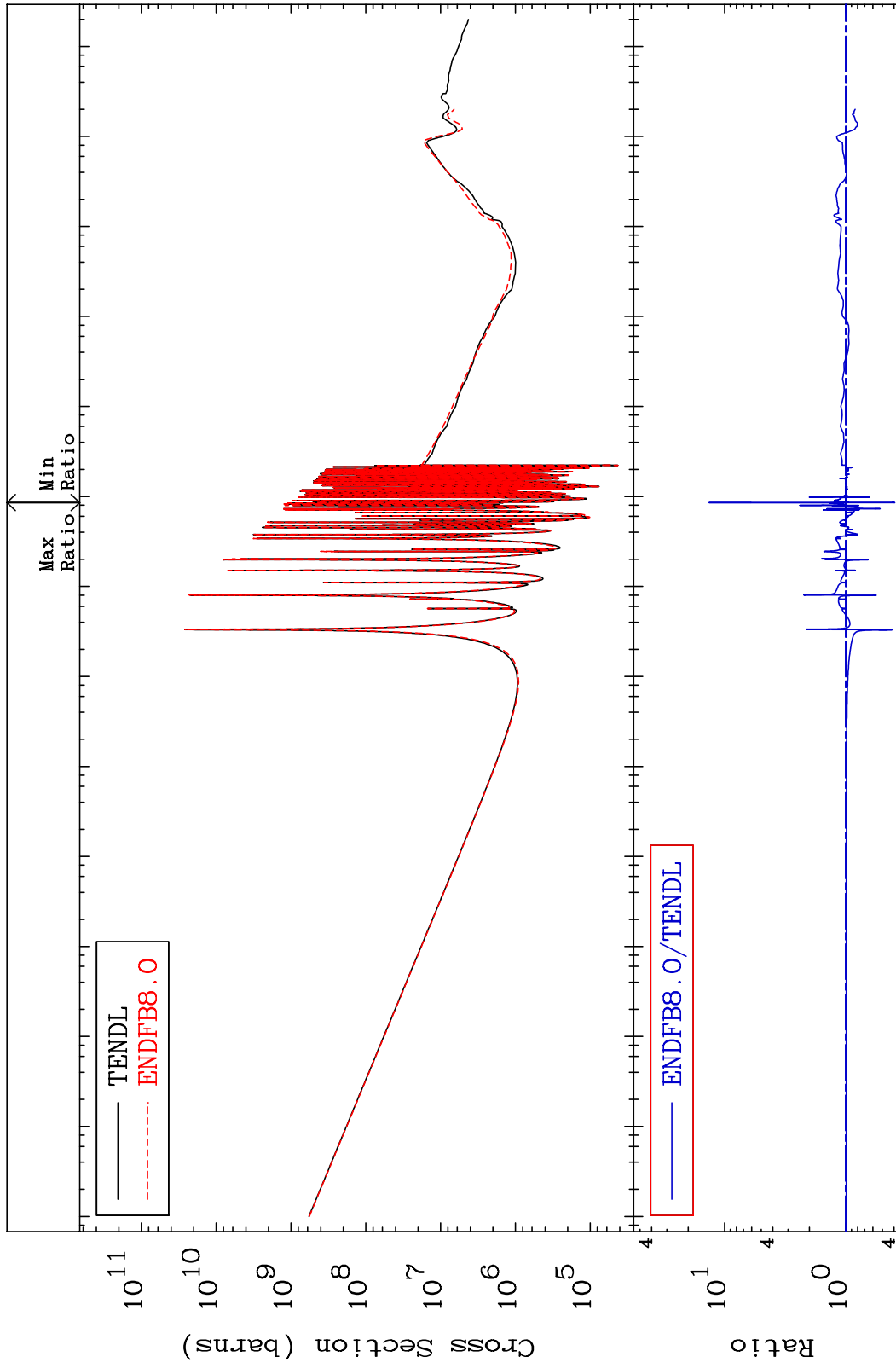
64-Gd-156

MAT 6437

Total photon (eV-barns)  
Cross Section

64-Gd-156

-60.65 To 1248. %



Ratio

47

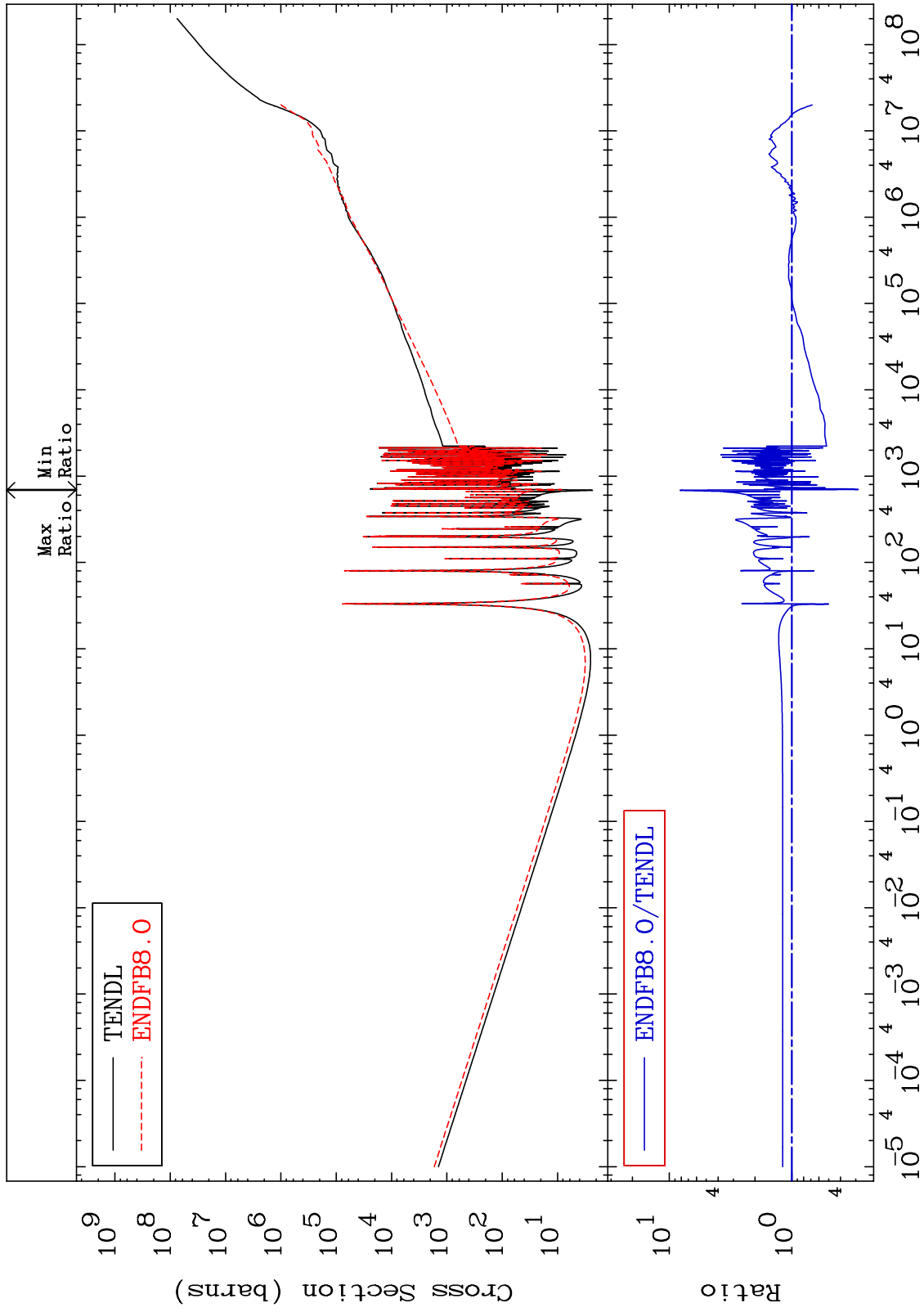
64-Gd-156



MAT 6437

Total kinematic kerma (high limit)  
Cross Section

64-Gd-156  
-71.44 To 718.0 %



48

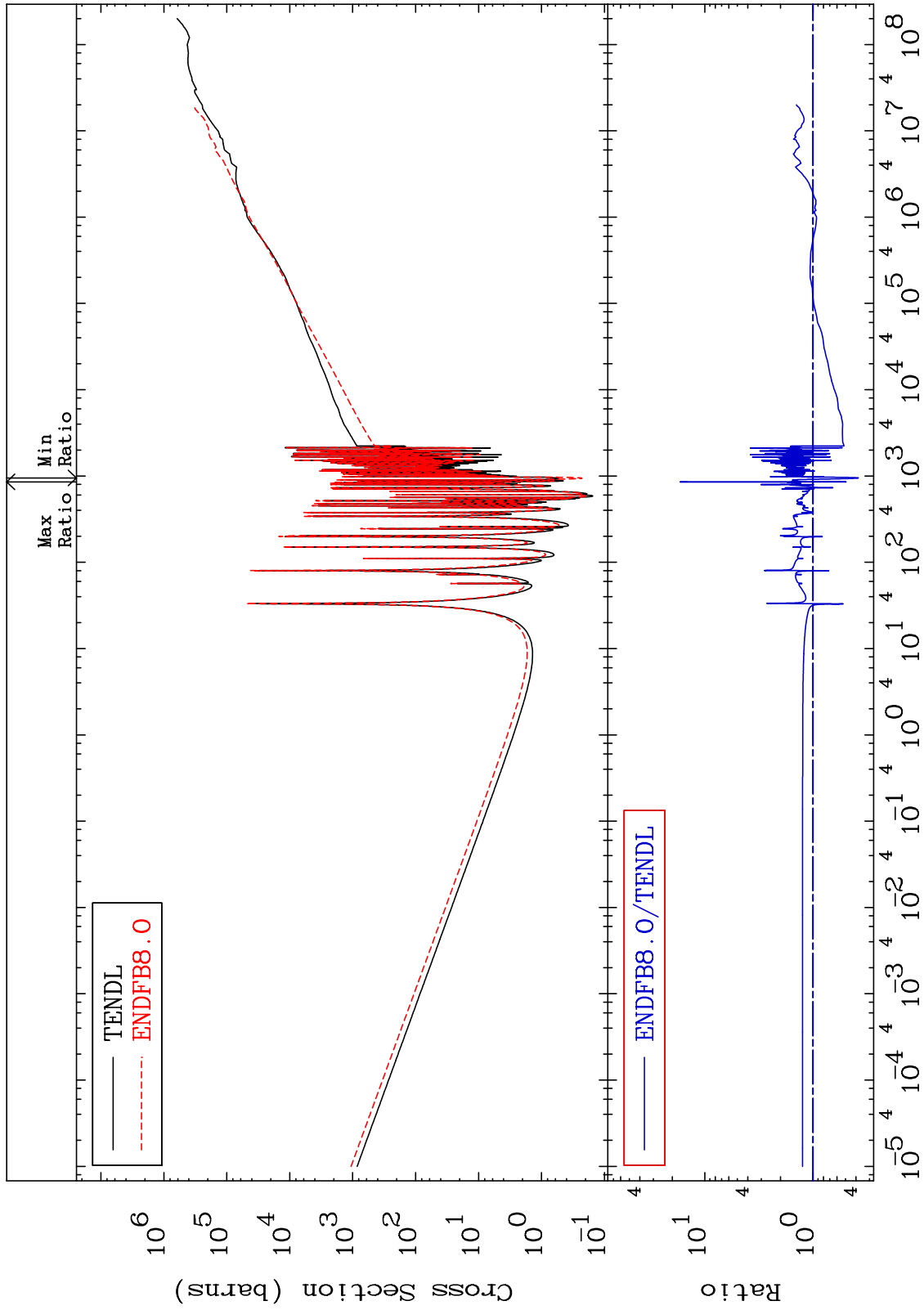
Incident Energy (eV)

64-Gd-156

MAT 6437

Dpa total (eV-barns)  
Cross Section

64-Gd-156  
-61.98 To 1597. %



49

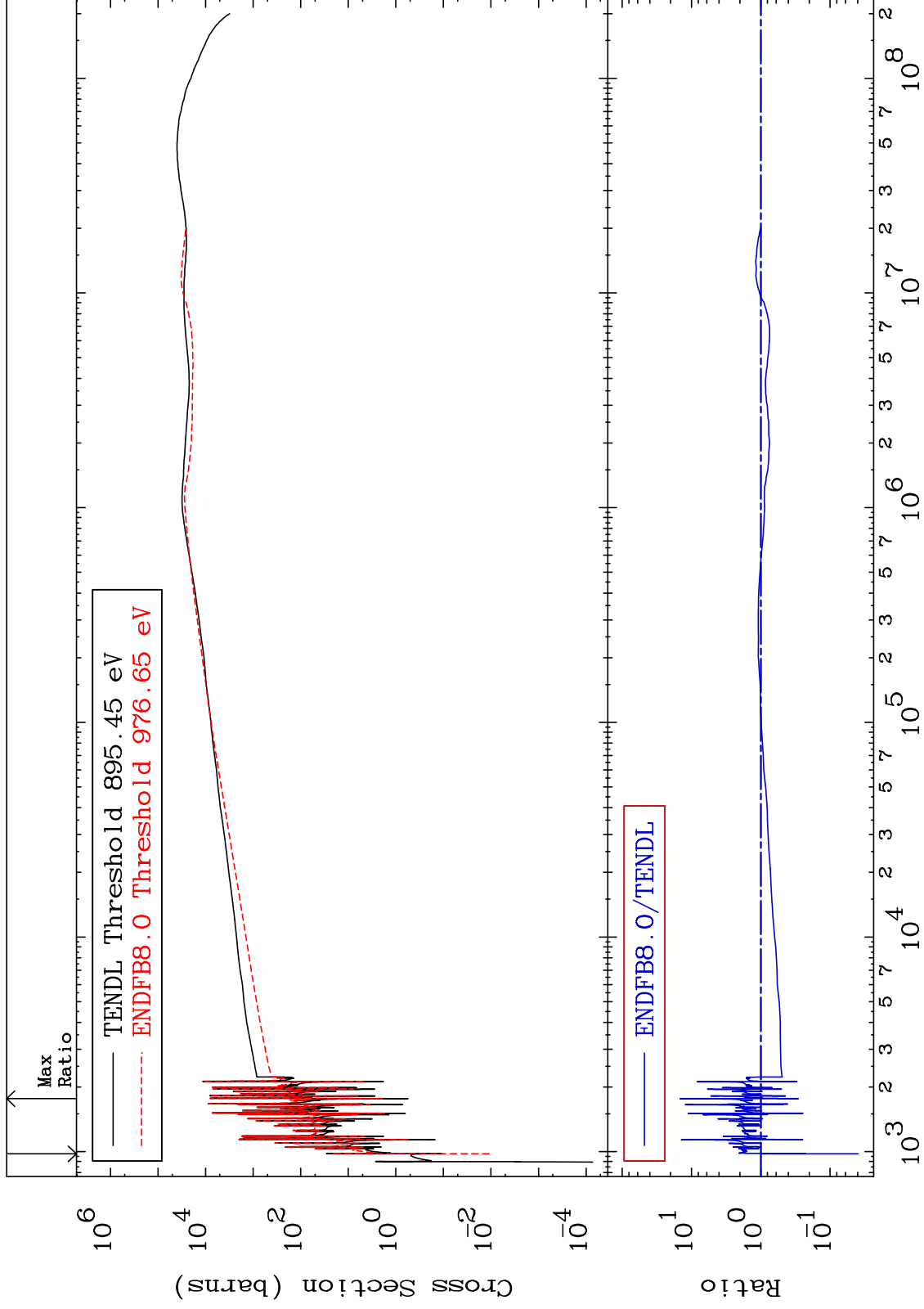
Incident Energy (eV)

64-Gd-156

MAT 6437

Dpa elastic (mt2)  
Cross Section

64-Gd-156  
-96.10 To 1363. %



50

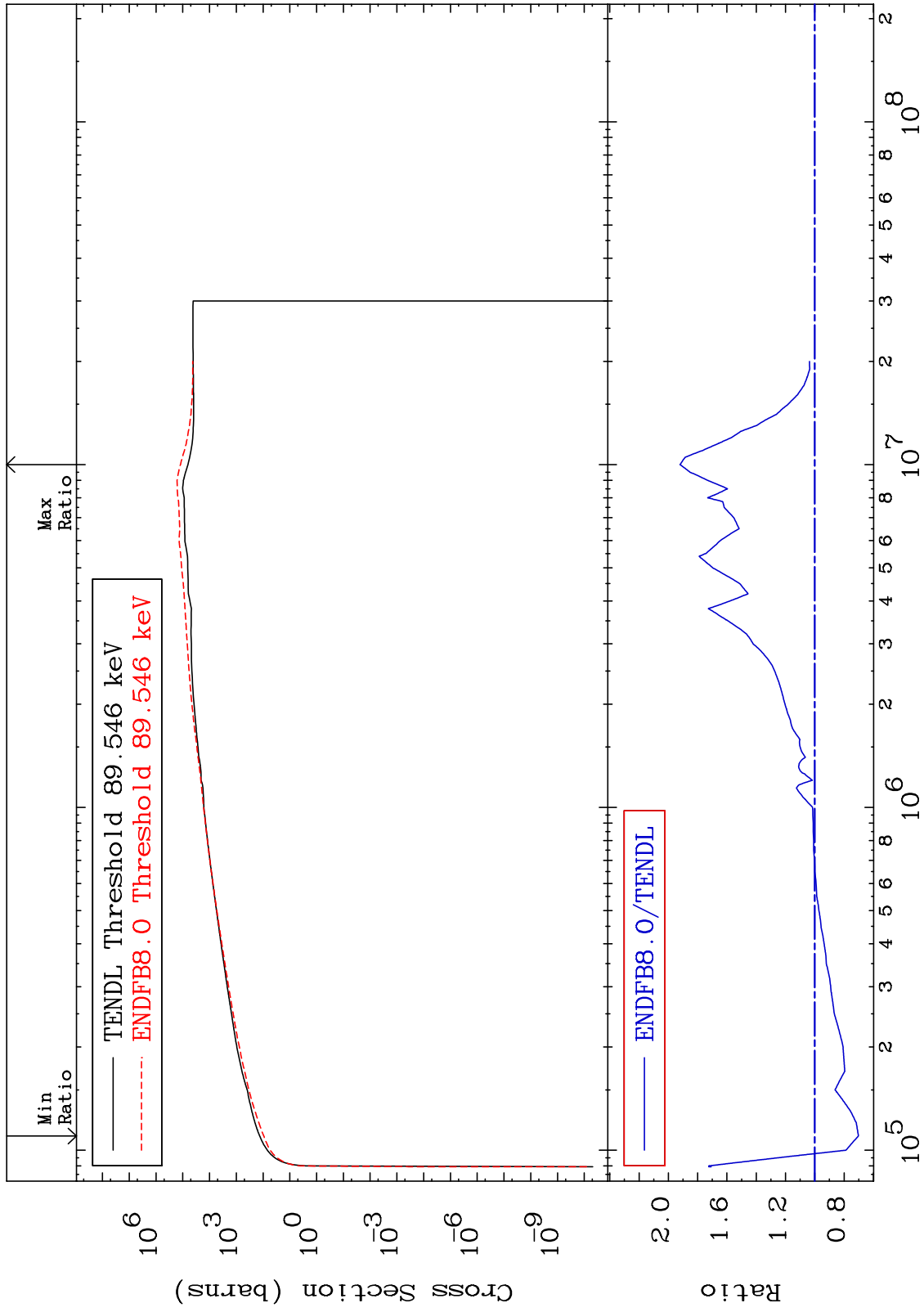
Incident Energy (eV)

64-Gd-156

MAT 6437

Dpa inelastic (mt51-91)  
Cross Section

64-Gd-156  
-29.78 To 92.04 %



51

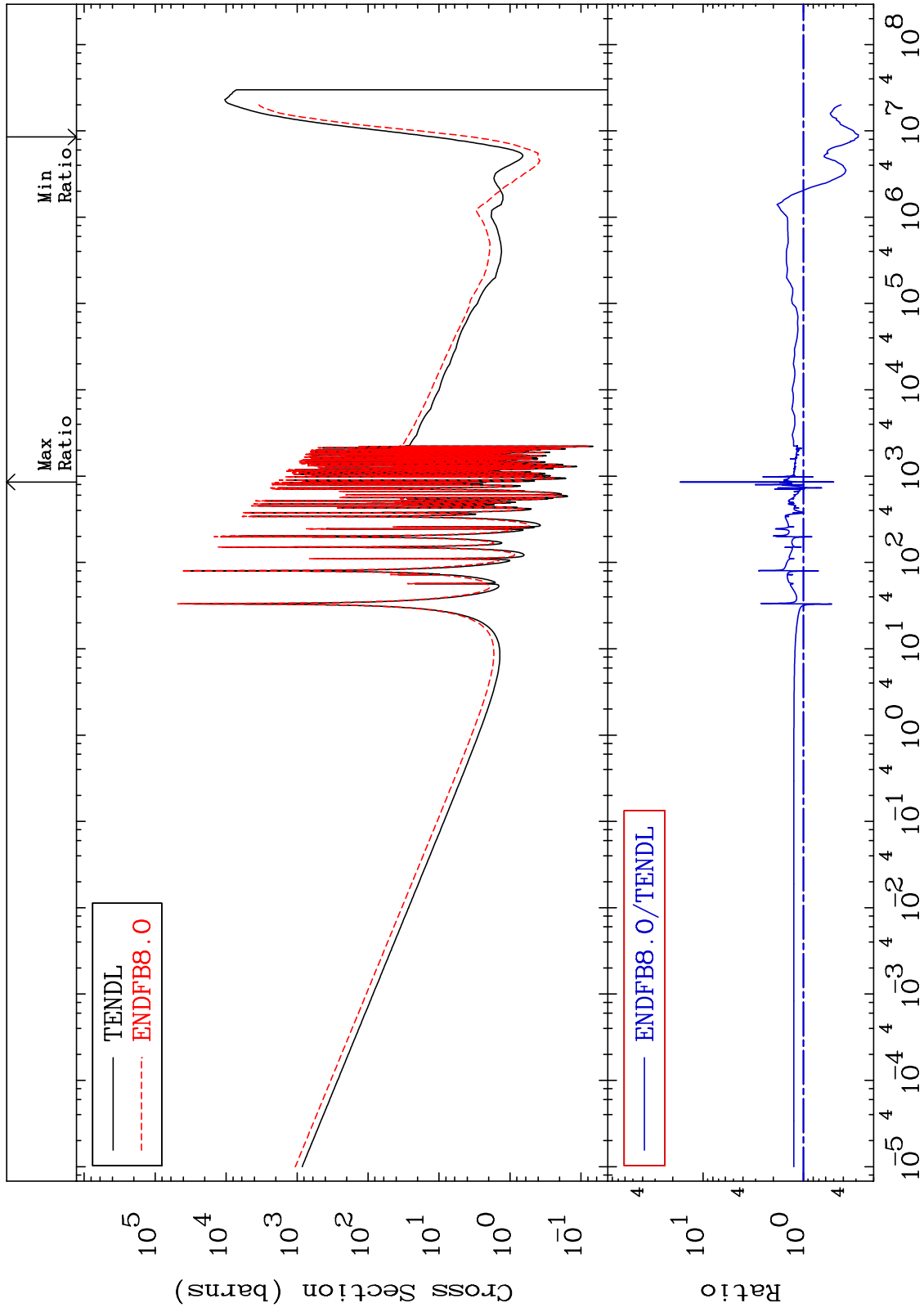
Incident Energy (eV)

64-Gd-156

MAT 6437

Dpa disappearance (mt102 -120)  
Cross Section

64-Gd-156  
-71.67 To 1597. %



52

Incident Energy (eV)

64-Gd-156