

Program Complot  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550  
U.S.A.

Tele: 925-443-1911

E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

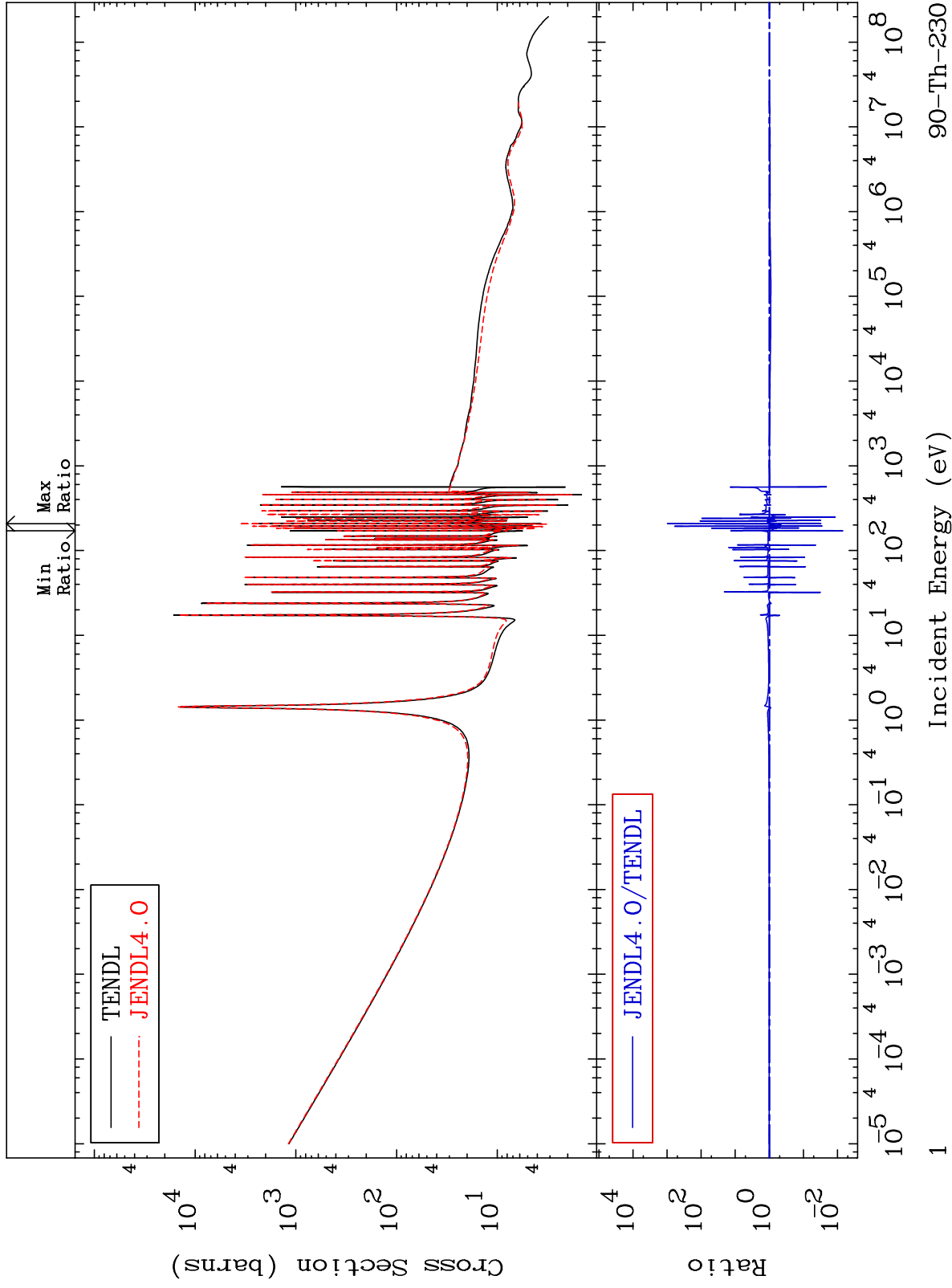
MAT 9034

Total

90-Th-230

Cross Section

-99.30 To 9999. %



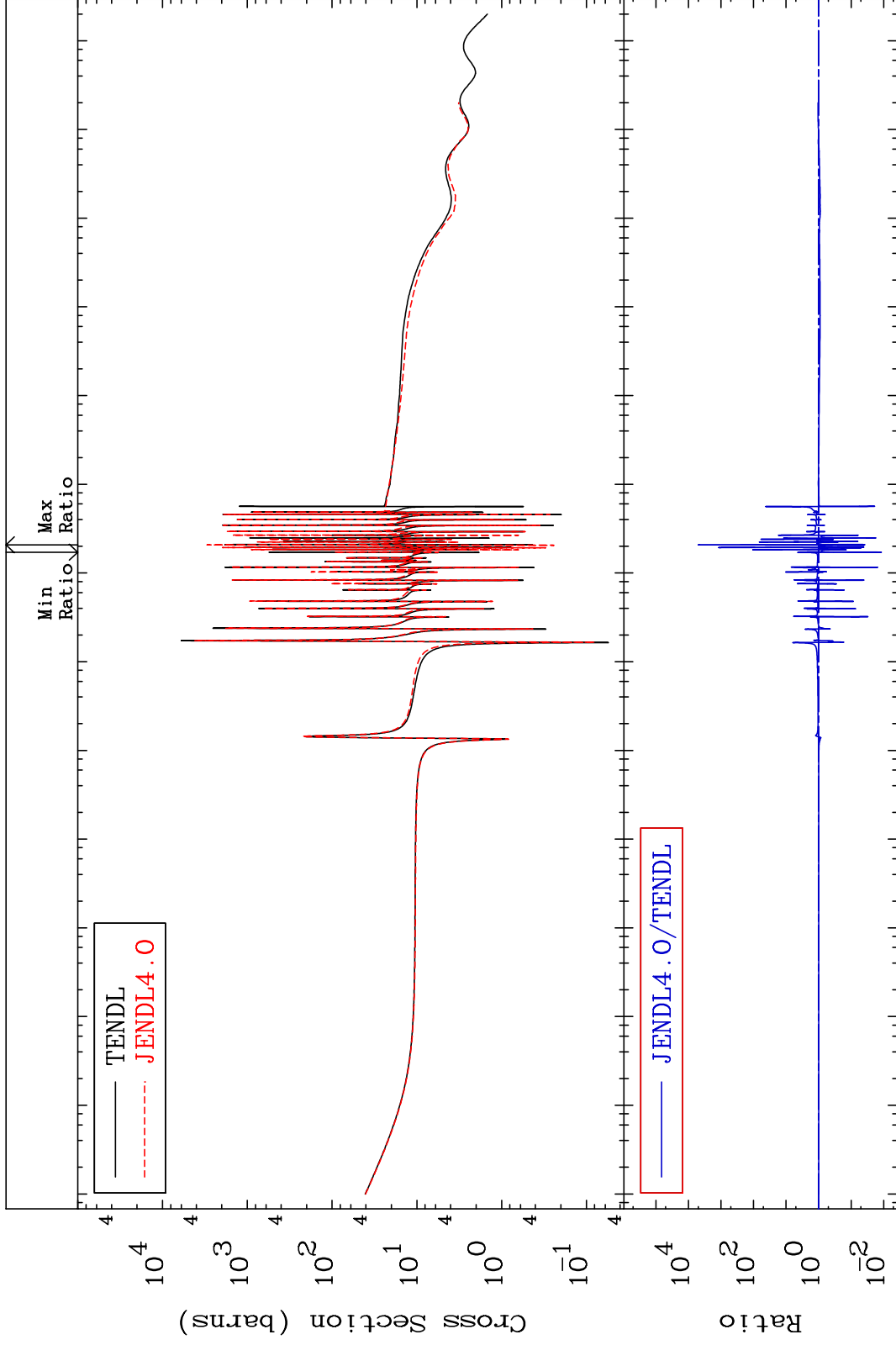
MAT 9034

Elastic

90-Th-230

Cross Section

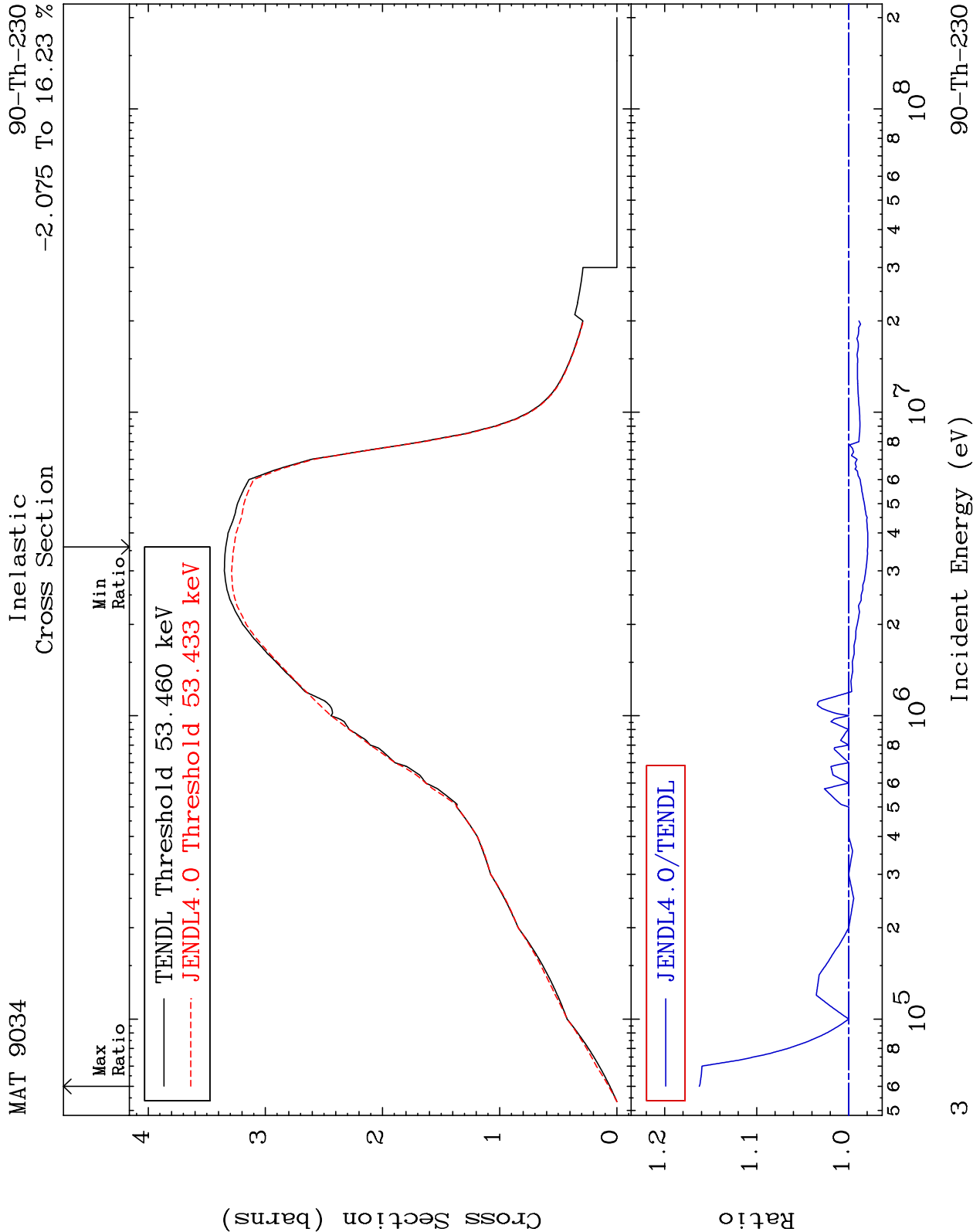
-98.84 To 9999. %



2

Incident Energy (eV)

90-Th-230



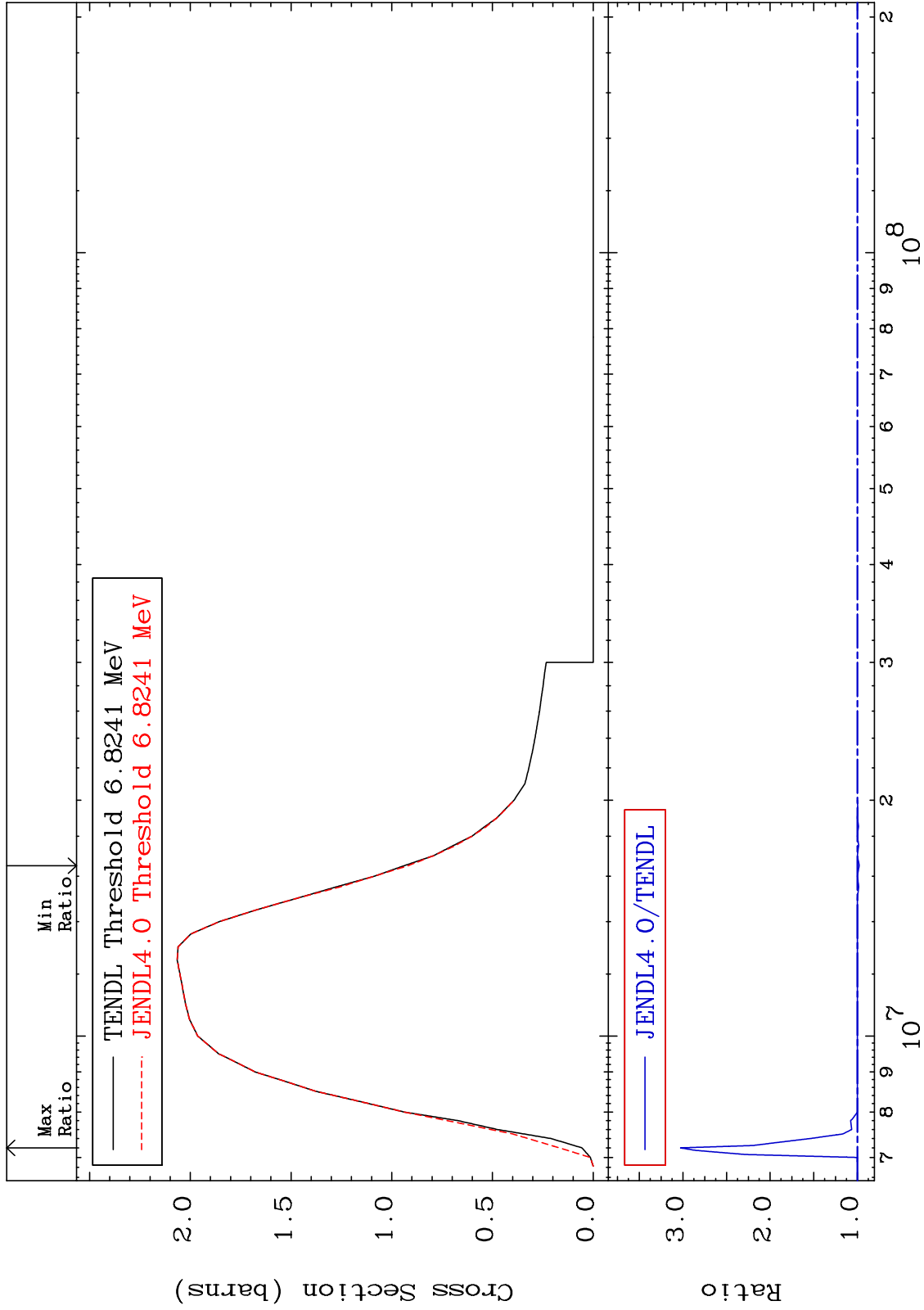
MAT 9034

(n,2n)

90-Th-230

Cross Section

-2.088 To 202.7 %



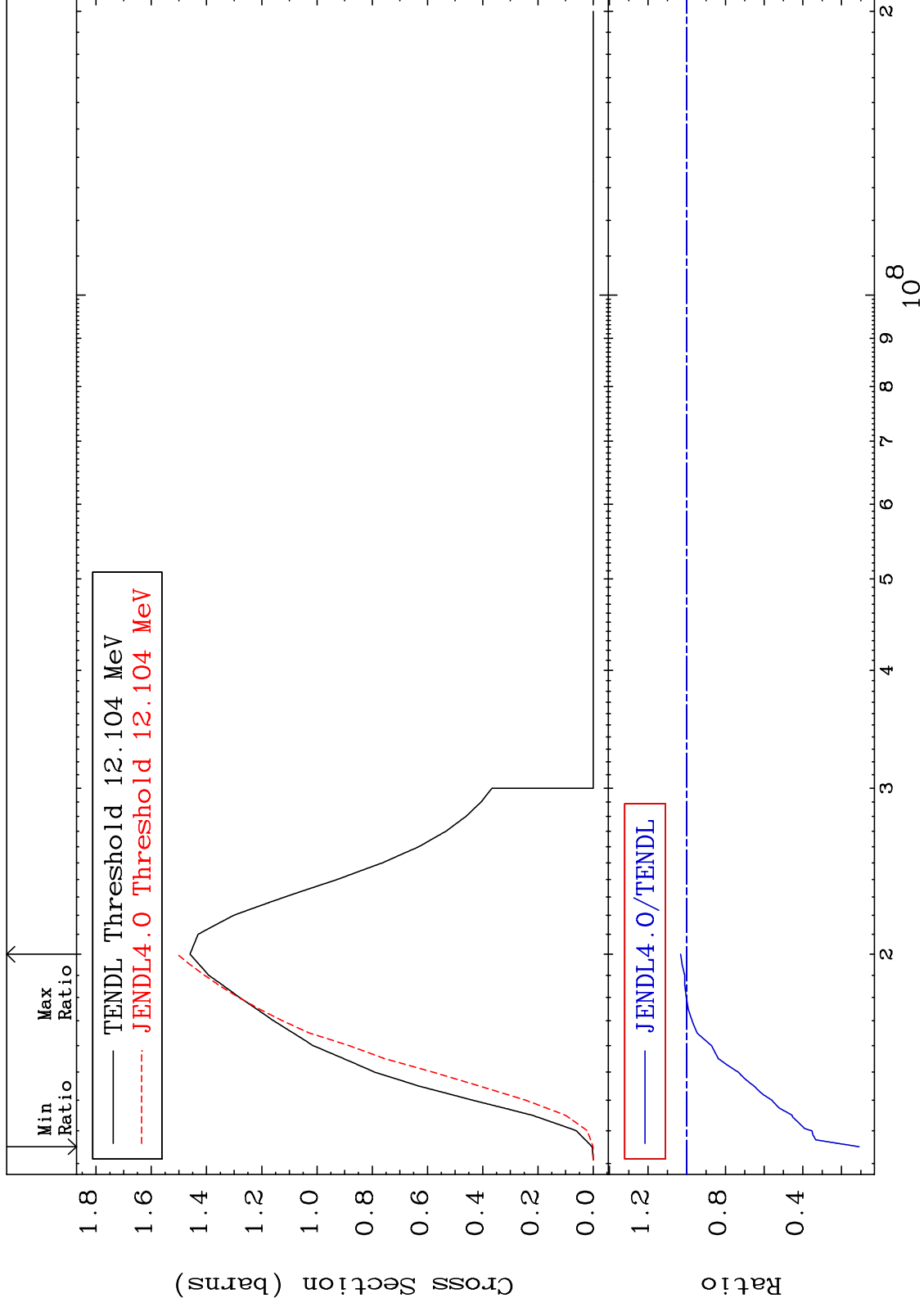
MAT 9034

(n, 3n)

90-Th-230

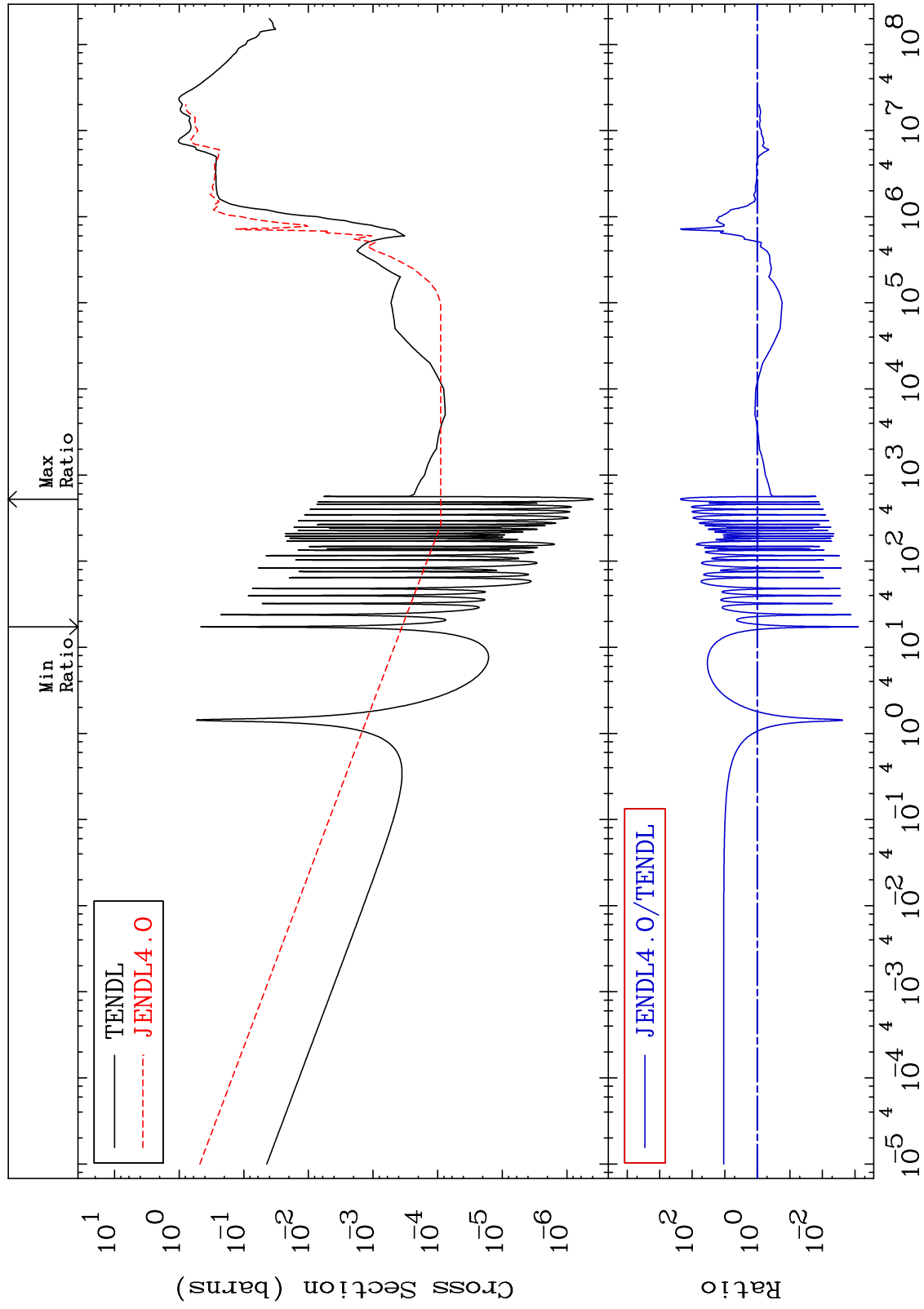
Cross Section

-89.14 To 3.163 %



MAT 9034

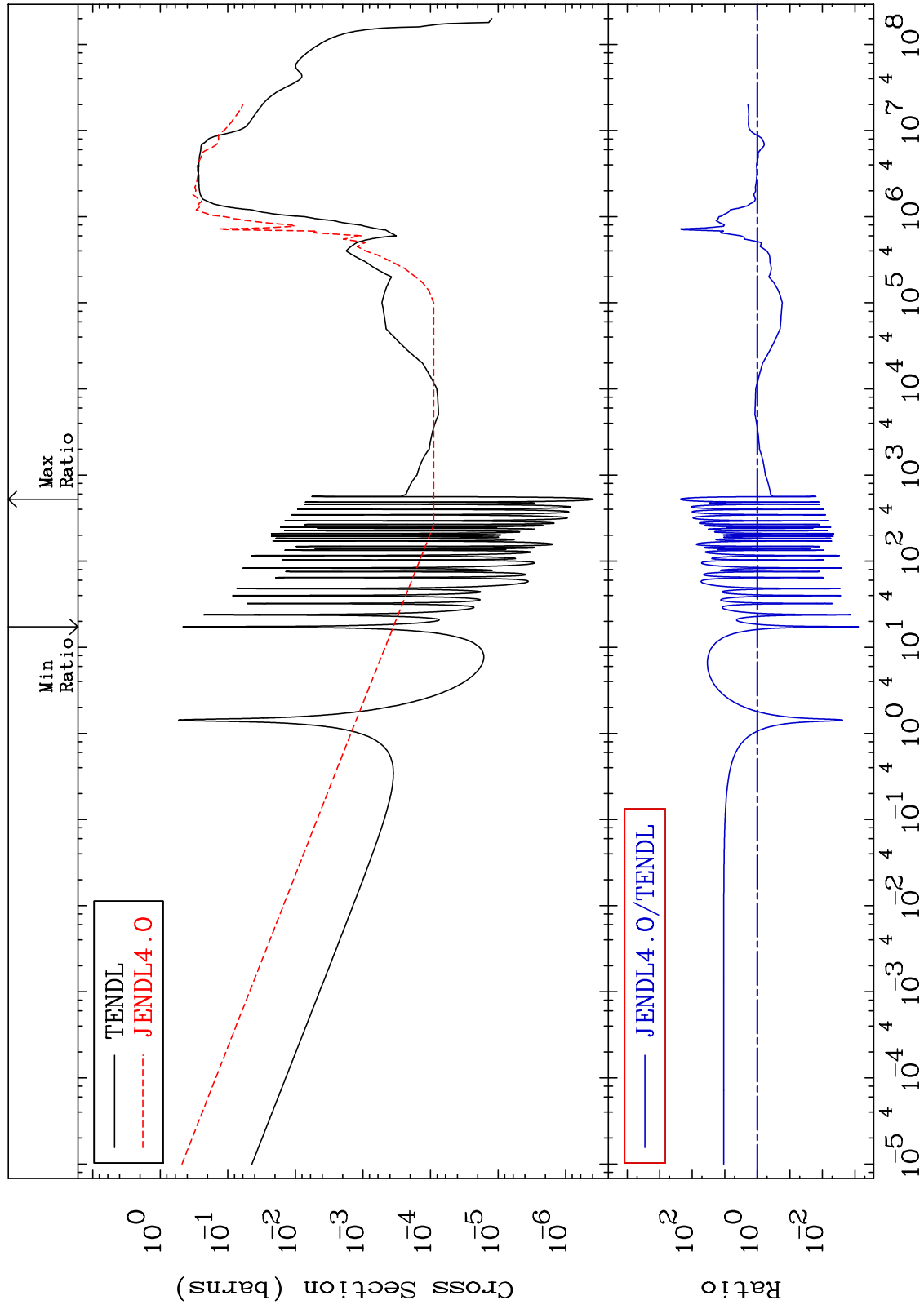
Fission Cross Section  
90-Th-230  
-99.92 To 9999. %



MAT 9034

(n,f) First Chance Cross Section

90-Th-230  
-99.92 To 9999. %



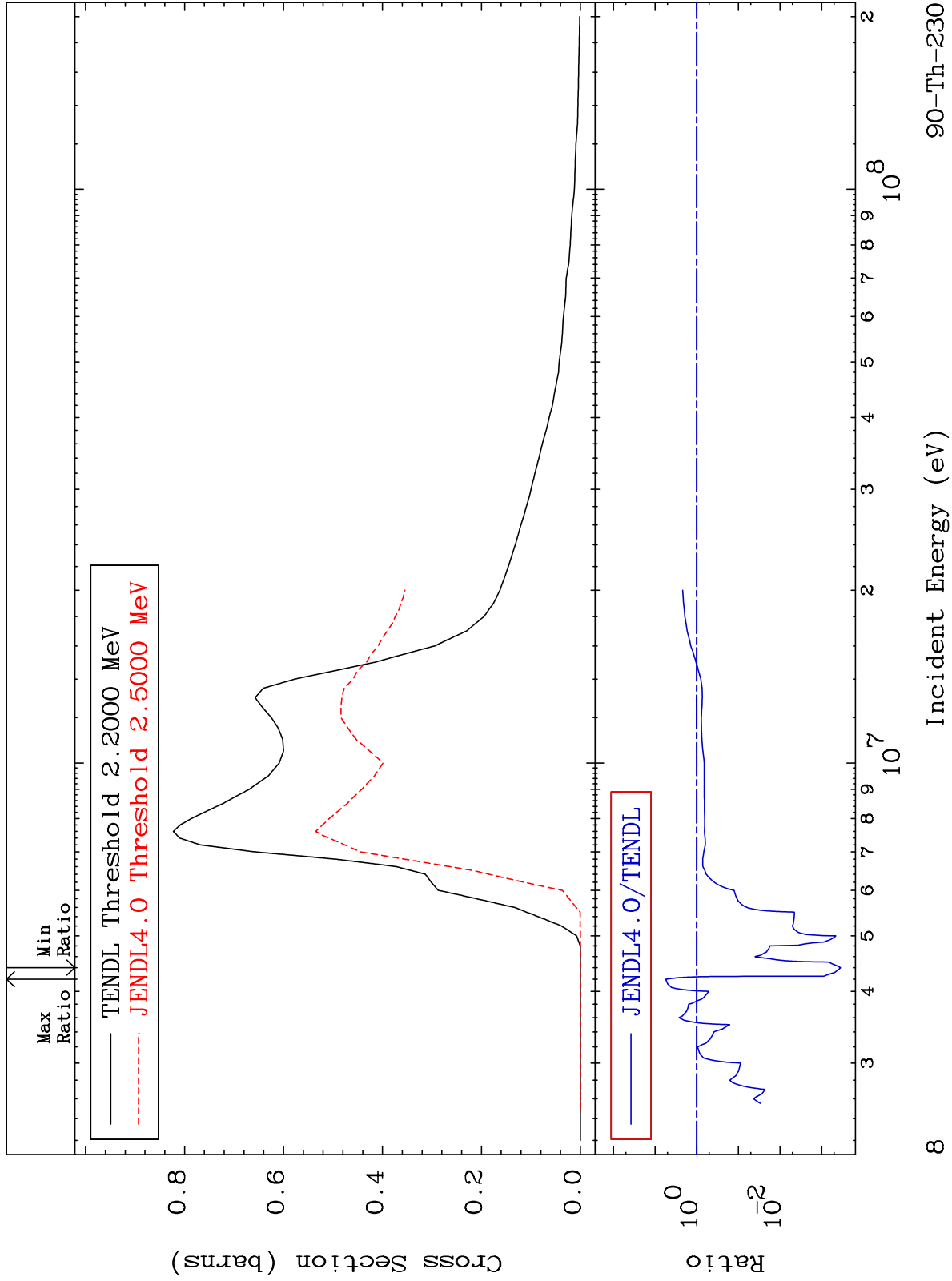
Incident Energy (eV) 90-Th-230



MAT 9034

(n, nf) Second Chance  
Cross Section

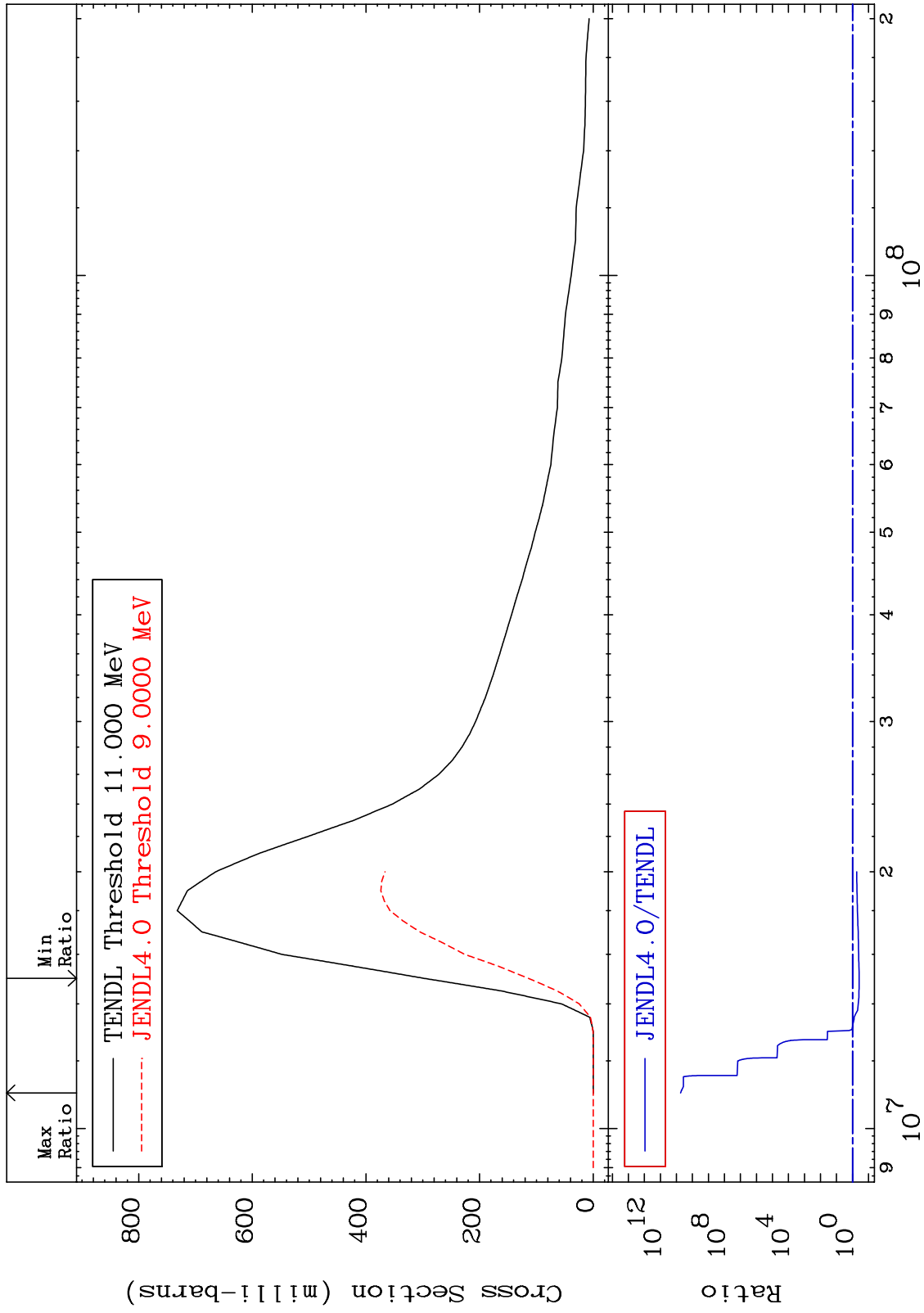
90-Th-230  
-99.96 To 449.7 %



MAT 9034

(n,2nf) Third Chance  
Cross Section

90-Th-230  
-61.76 To 9999. %



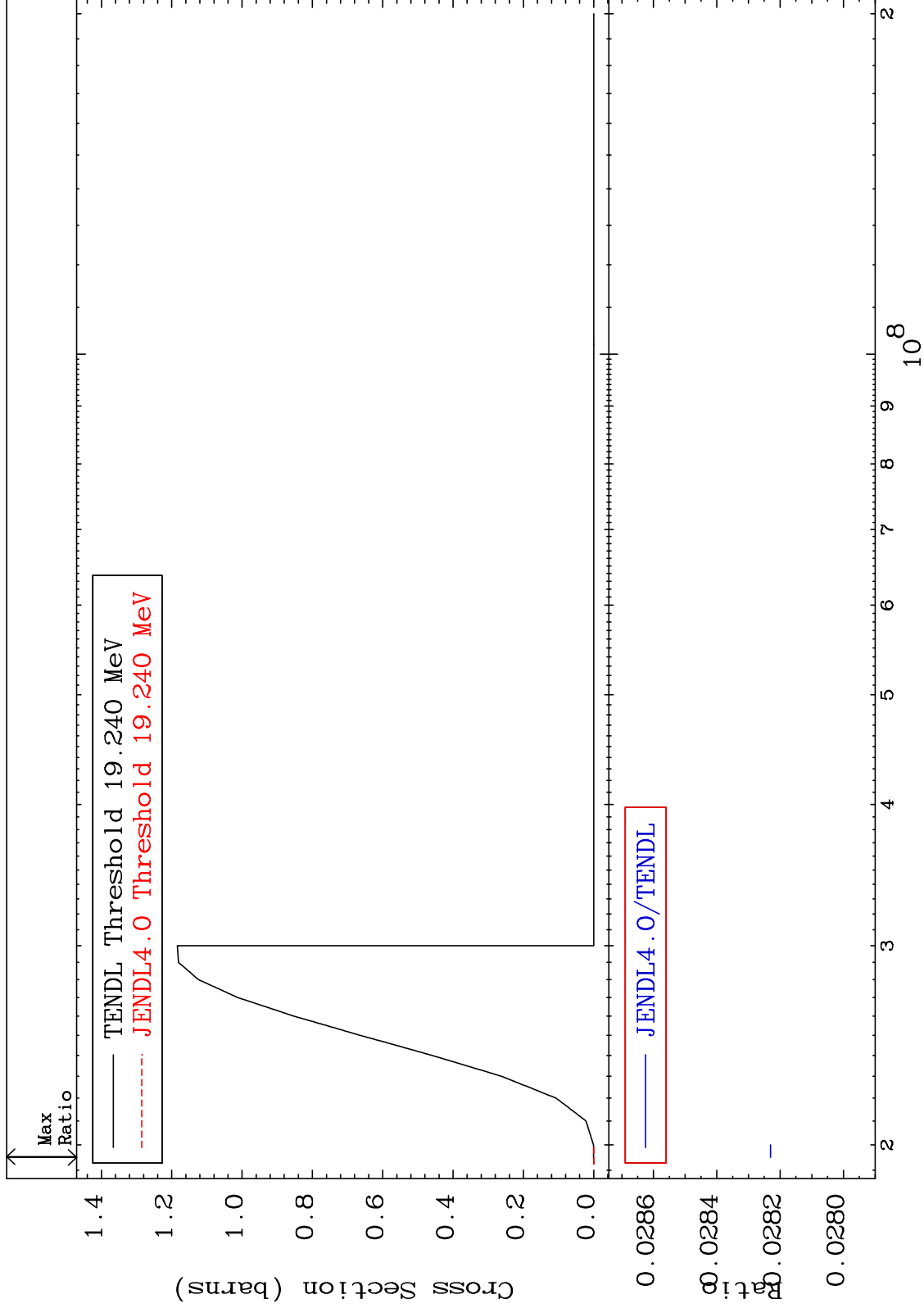
MAT 9034

(n, 4n)

90-Th-230

Cross Section

-97.18 To -97.18%



10

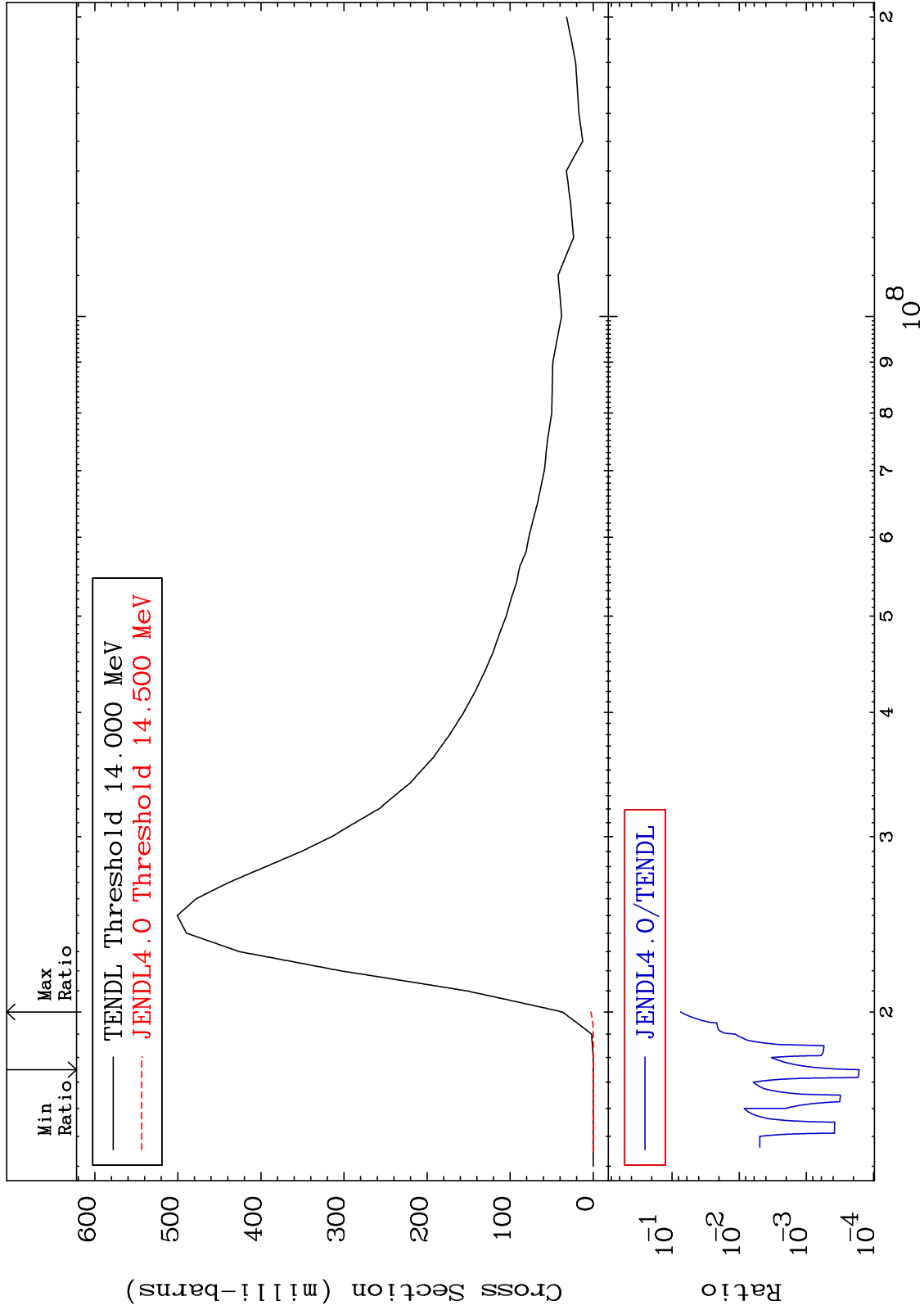
Incident Energy (eV)

90-Th-230

MAT 9034

(n,3nf) Fourth Chance  
Cross Section

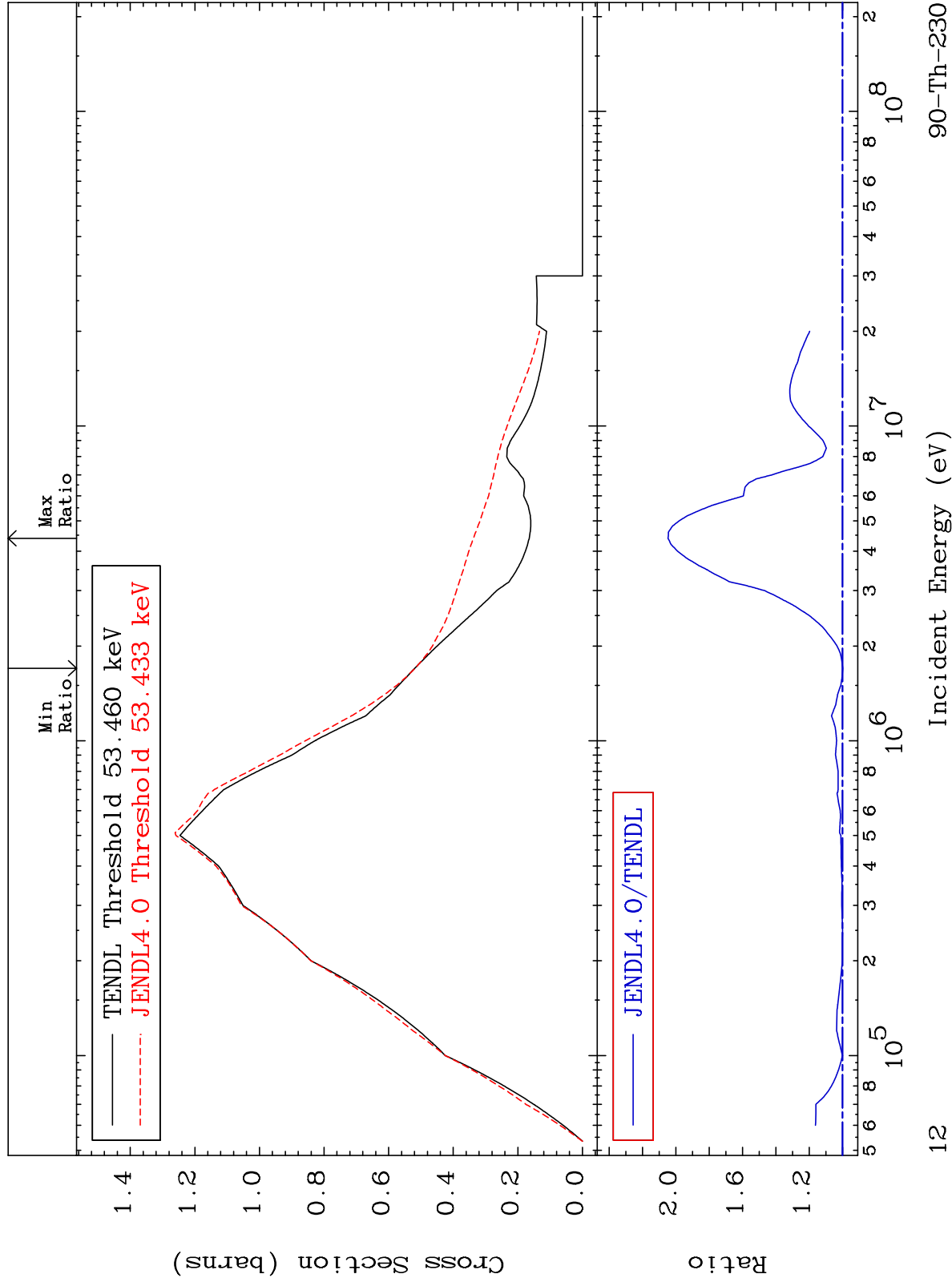
90-Th-230  
-99.98 To -92.56%



MAT 9034

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

90-Th-230  
-0.220 To 104.7 %



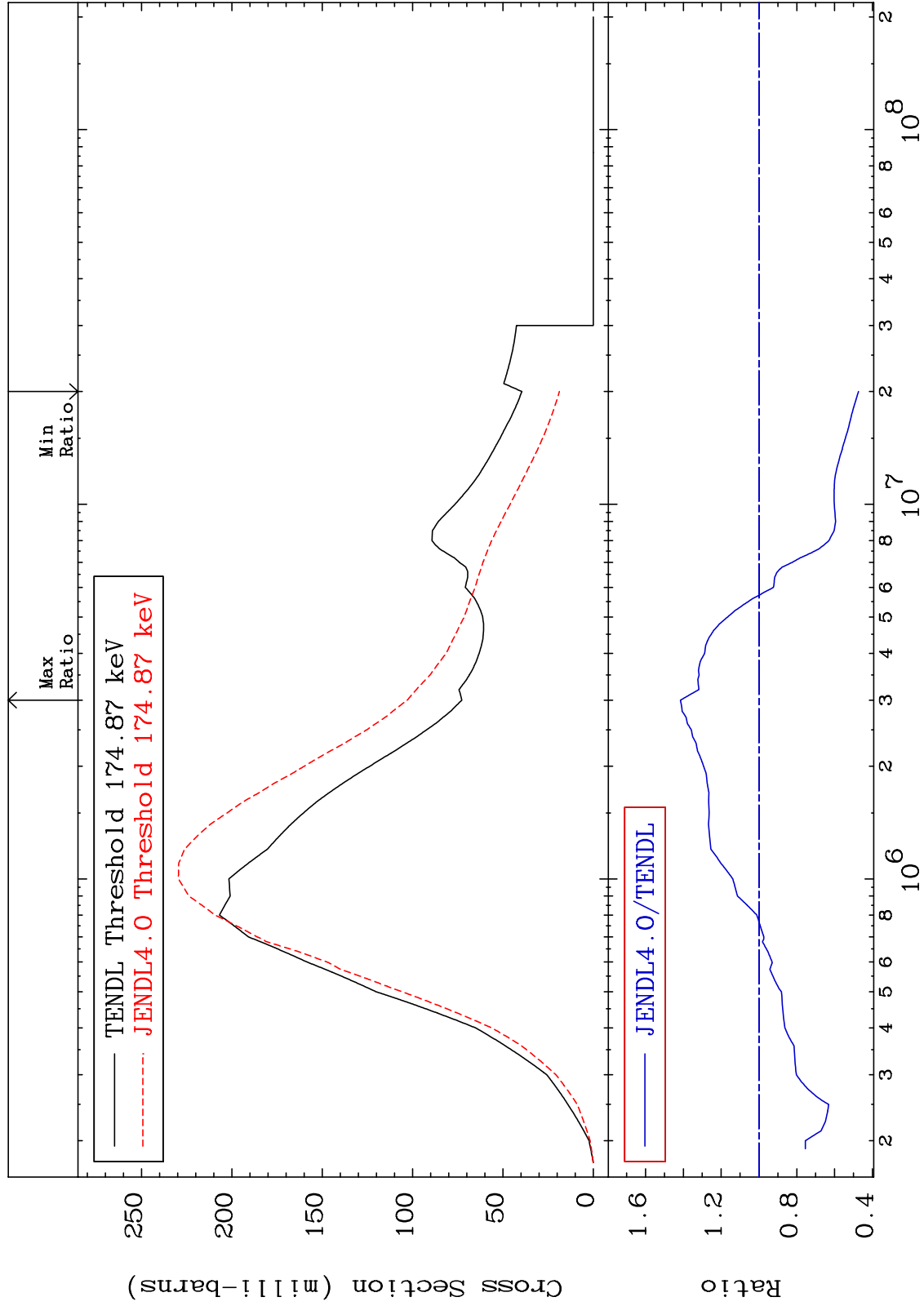
MAT 9034

MT= 52 (n,n') Level

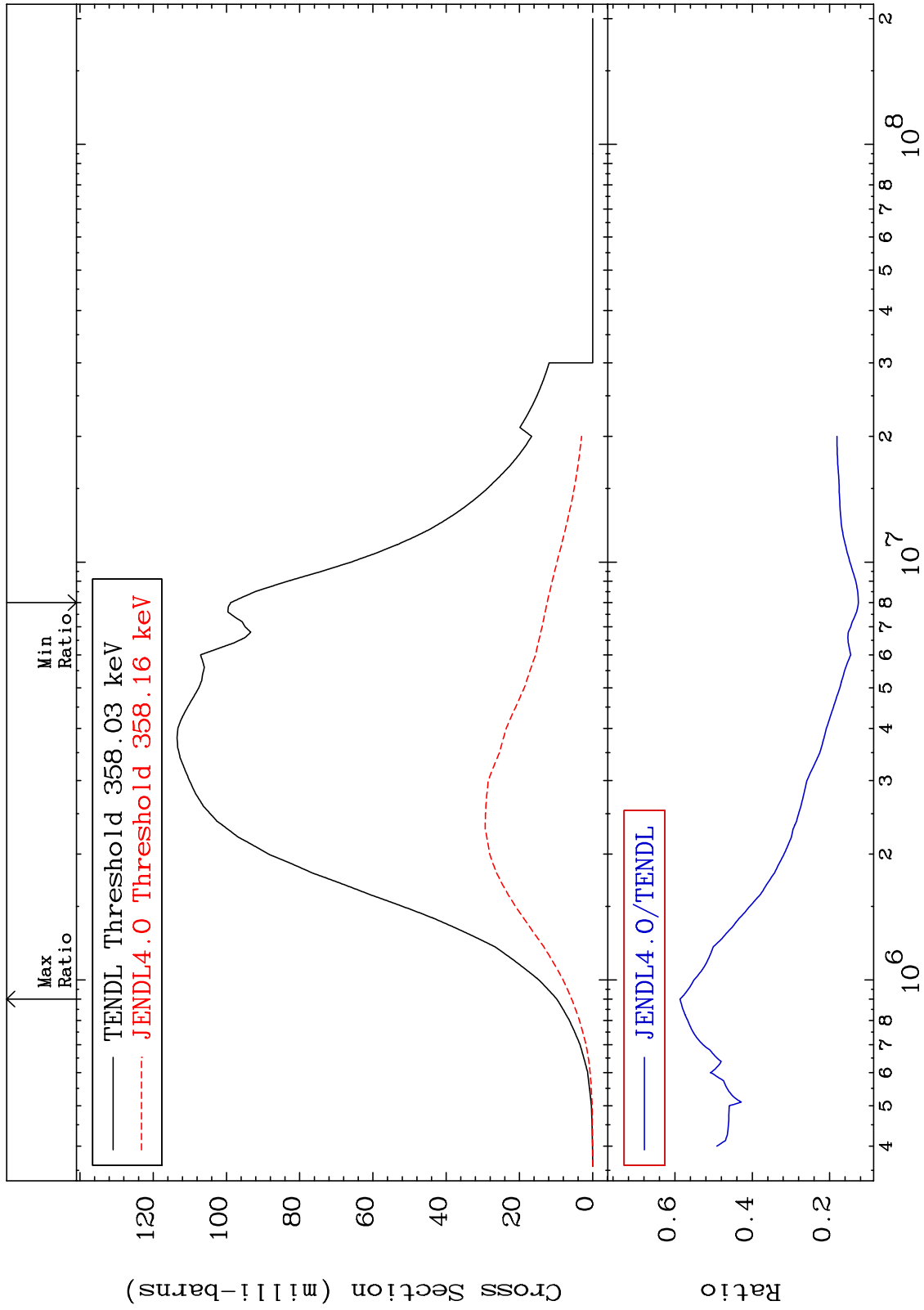
90-Th-230

-52.65 To 41.52 %

Cross Section



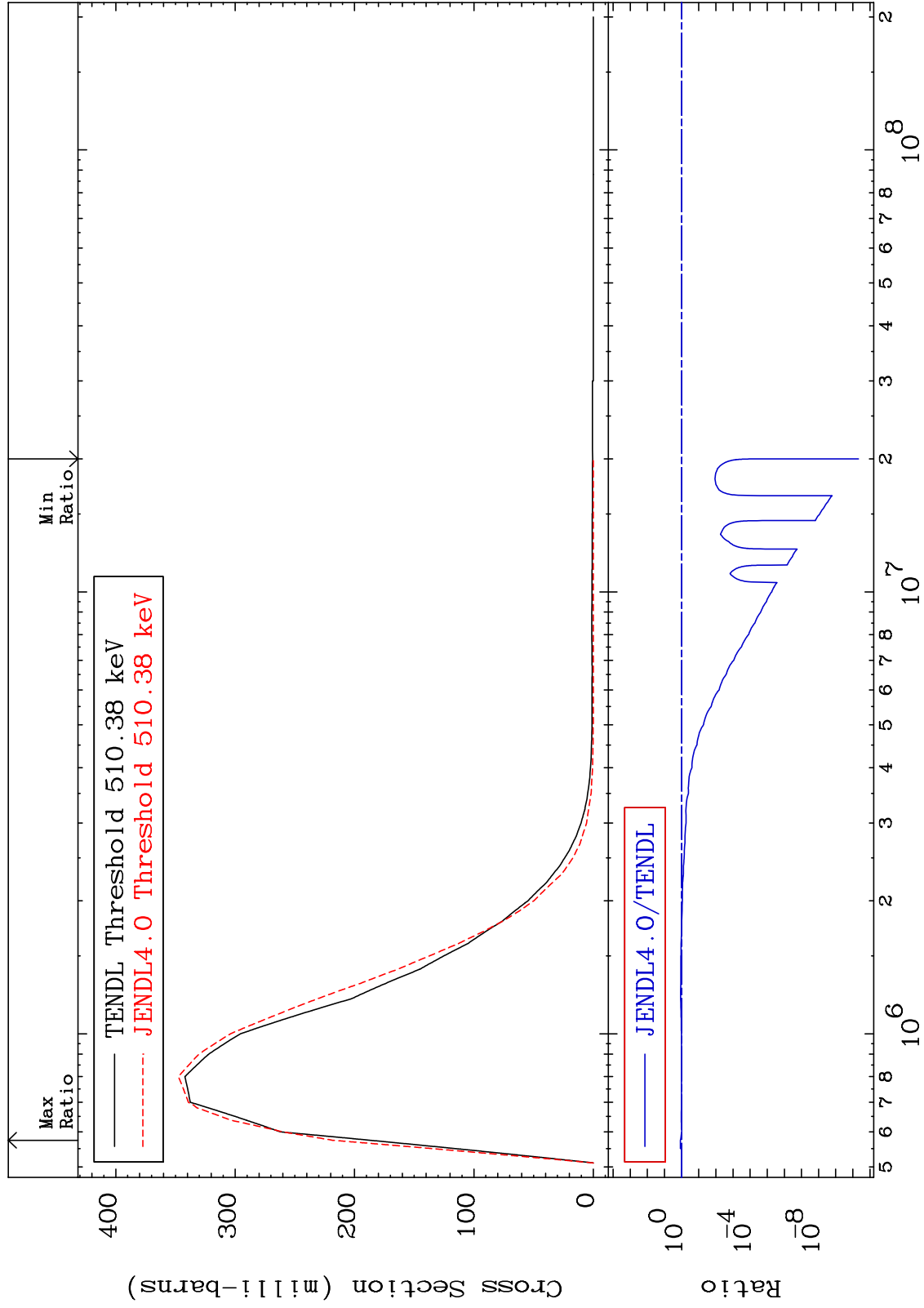
MAT 9034 MT= 53 (n,n') Level Cross Section 90-Th-230 -87.43 To -41.32%



MAT 9034

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

90-Th-230  
-100.0 To 16.77 %



15

90-Th-230

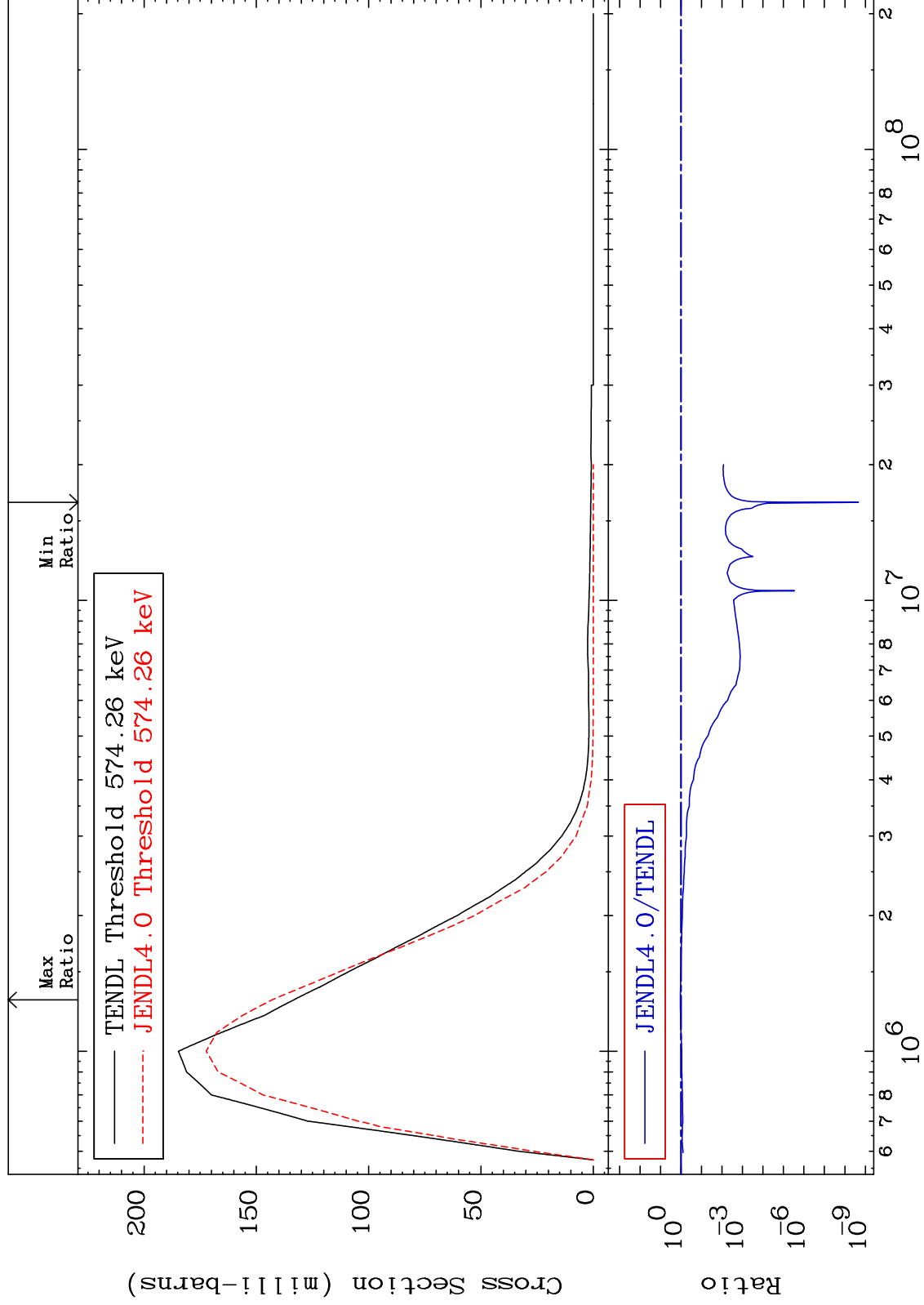
90-Th-230



MAT 9034

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

90-Th-230  
-100.0 To 7.231 %



16

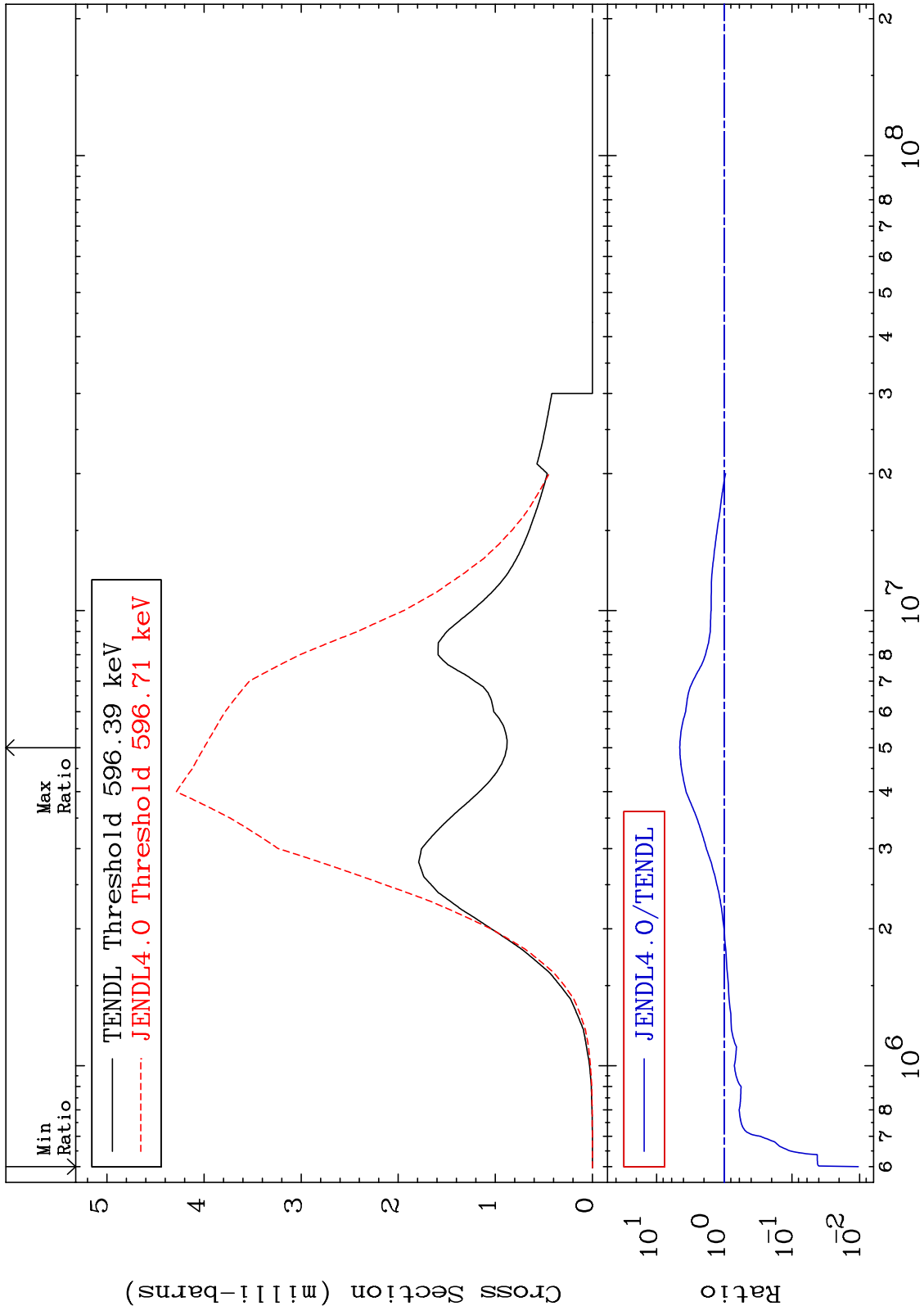
Incident Energy (eV)

90-Th-230

MAT 9034

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

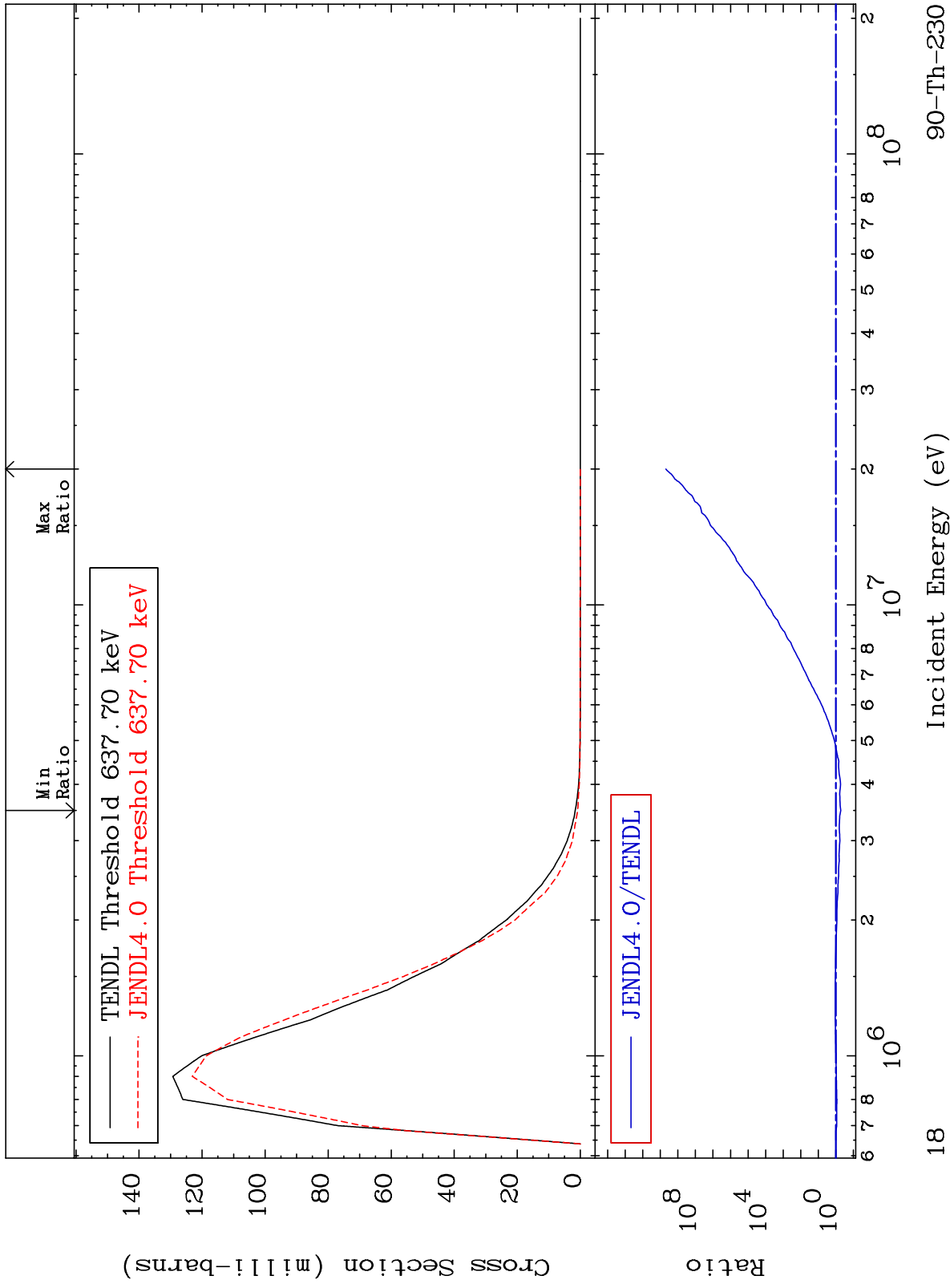
90-Th-230  
-98.96 To 354.1 %



MAT 9034

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

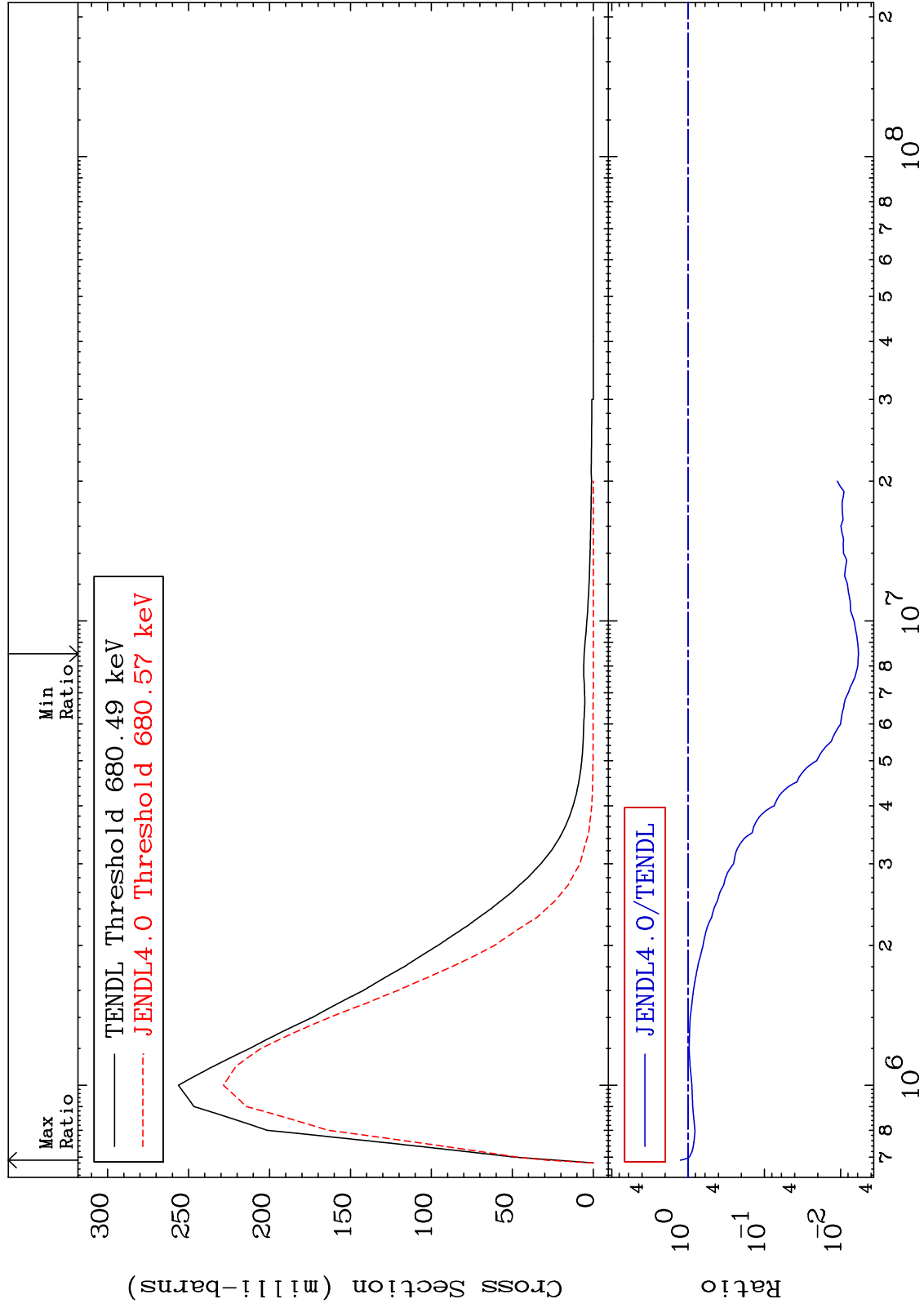
90-Th-230  
-47.38 To 9999. %



MAT 9034

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

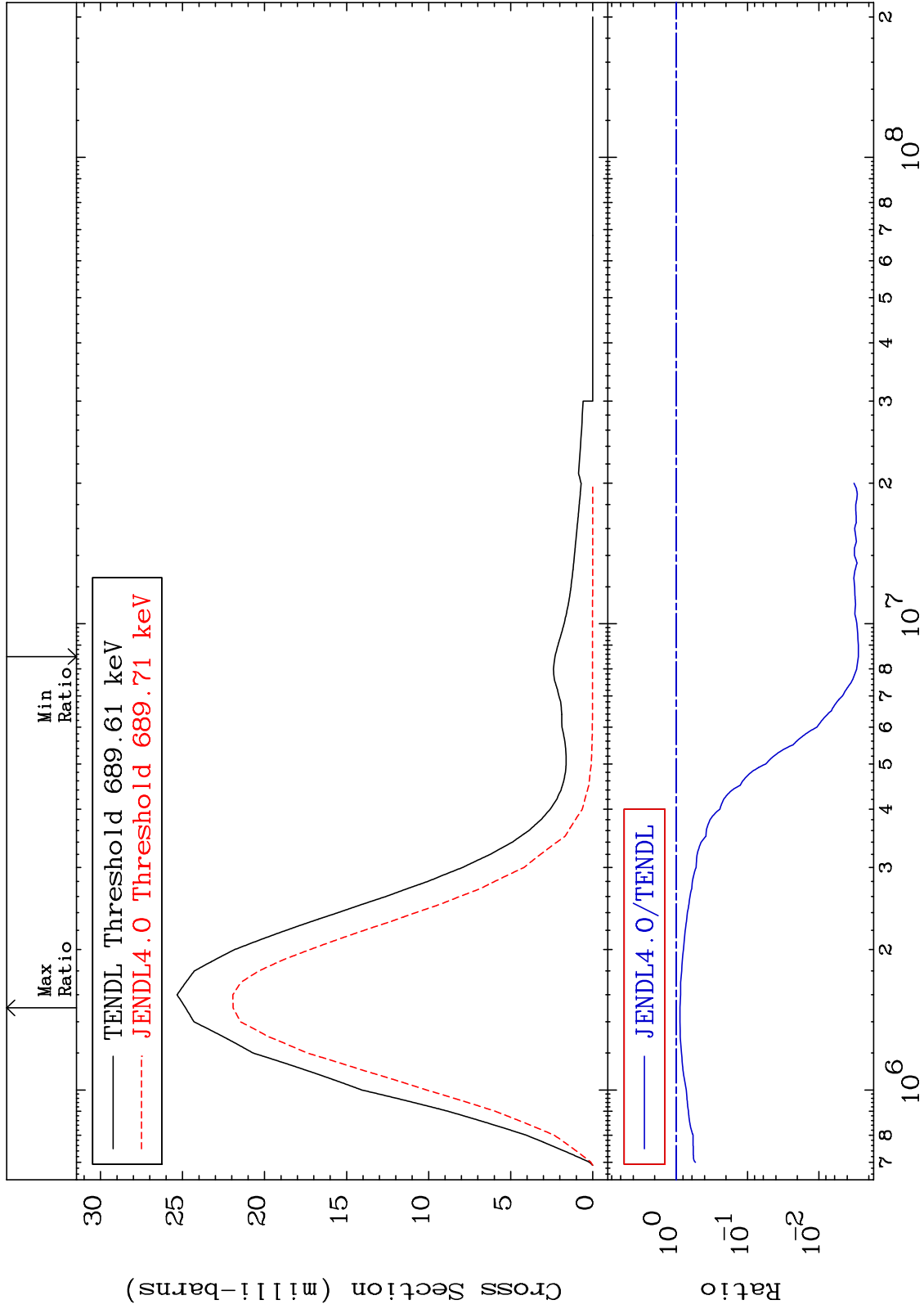
90-Th-230  
-99.42 To 25.80 %



MAT 9034

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

90-Th-230  
-99.72 To -11.67%



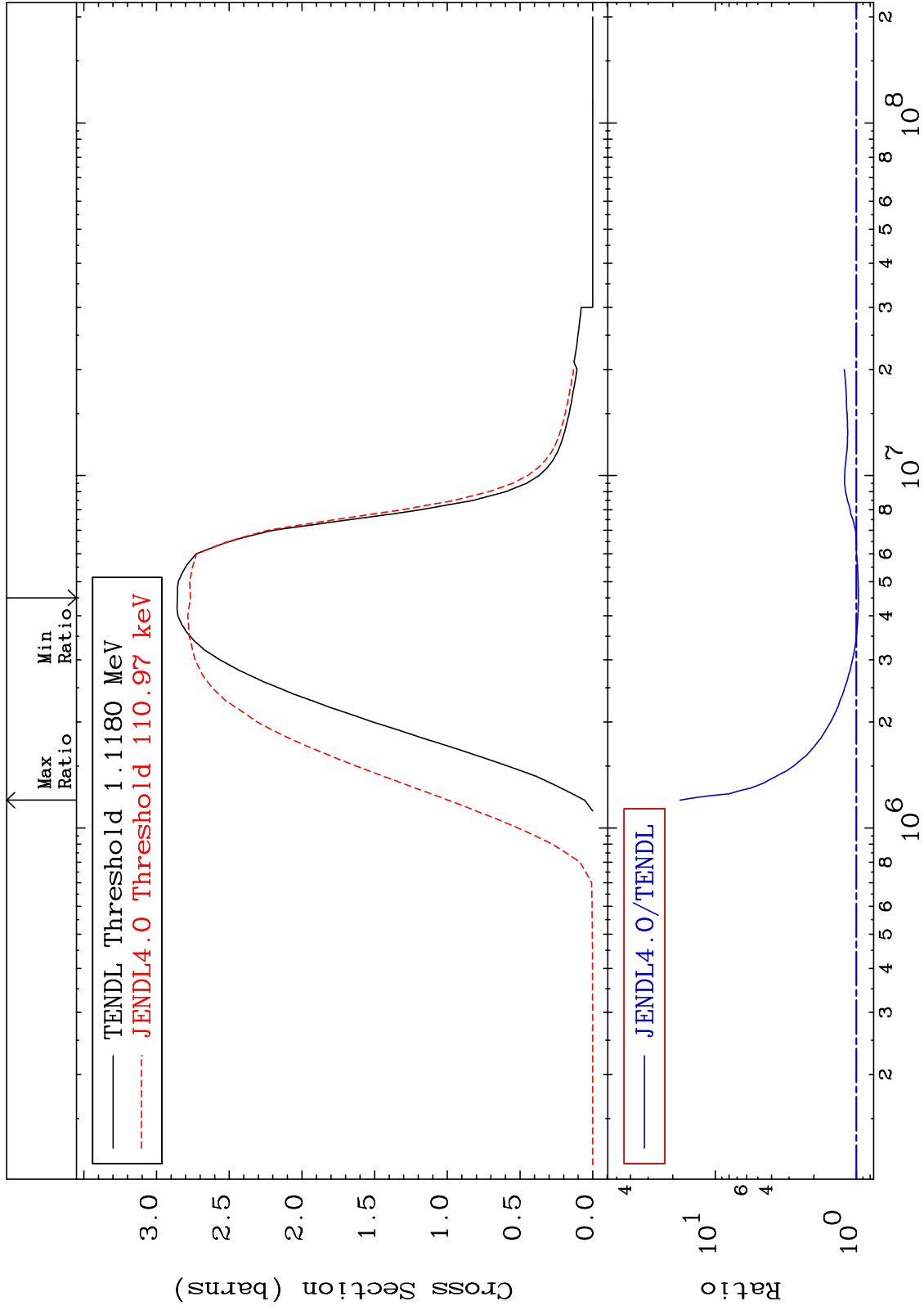
20

90-Th-230

MAT 9034

(n, n') Continuum  
Cross Section

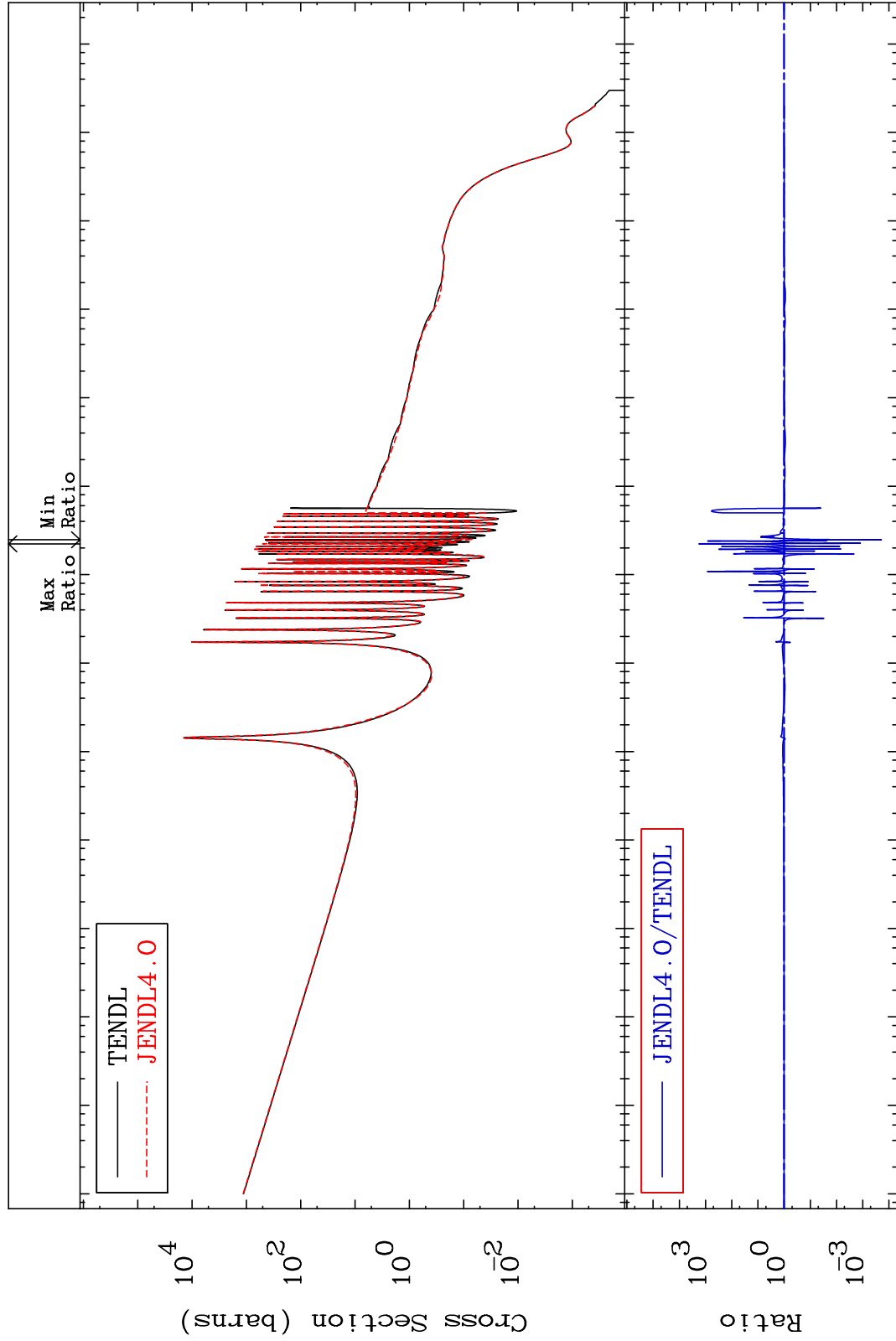
90-Th-230  
-3.174 To 1679. %



MAT 9034

(n,  $\gamma$ )  
Cross Section

90-Th-230  
-99.98 To 9999. %



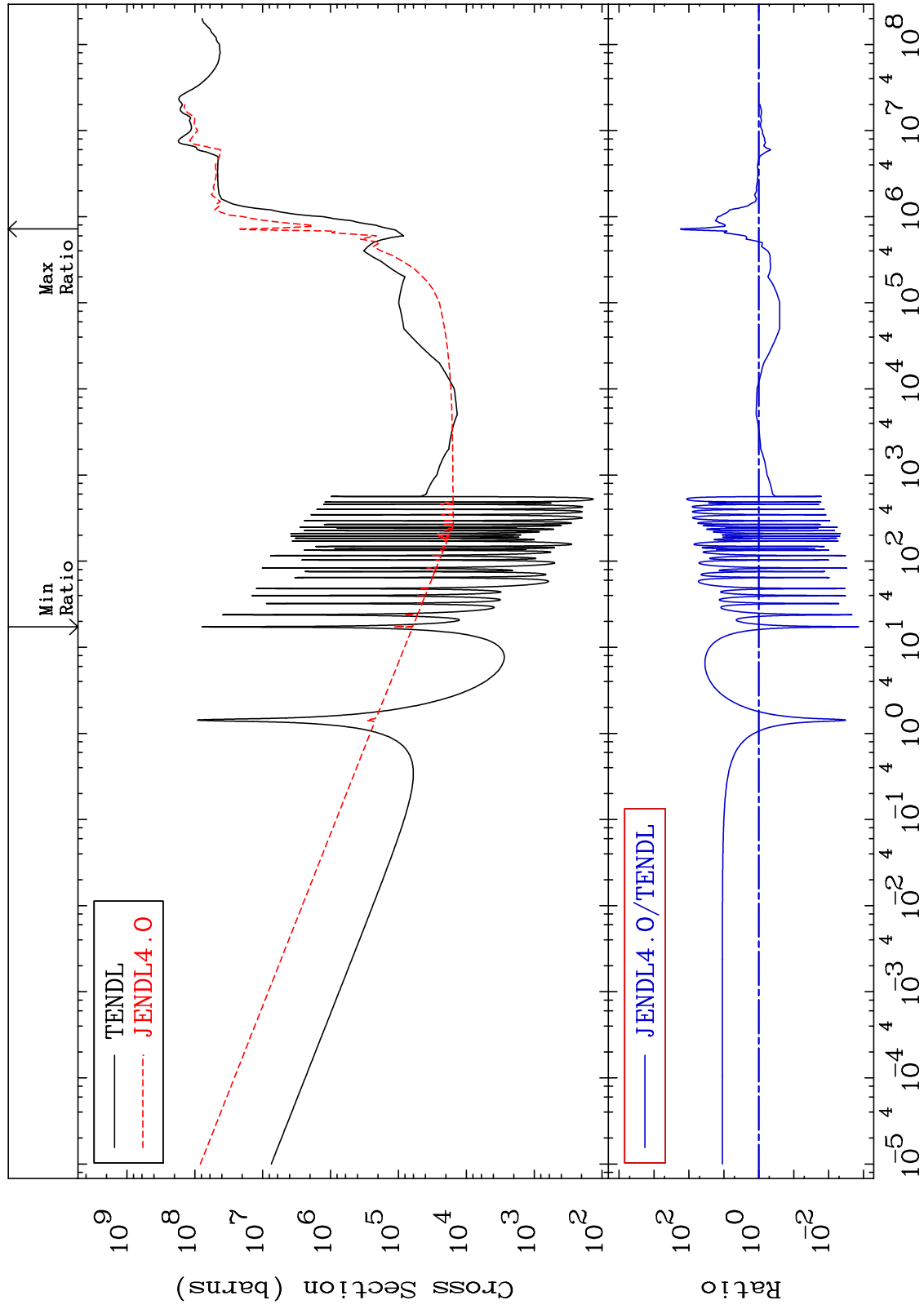
90-Th-230

Incident Energy (eV)

MAT 9034

Kerma total (eV-barns)  
Cross Section

90-Th-230  
-99.86 To 9999. %

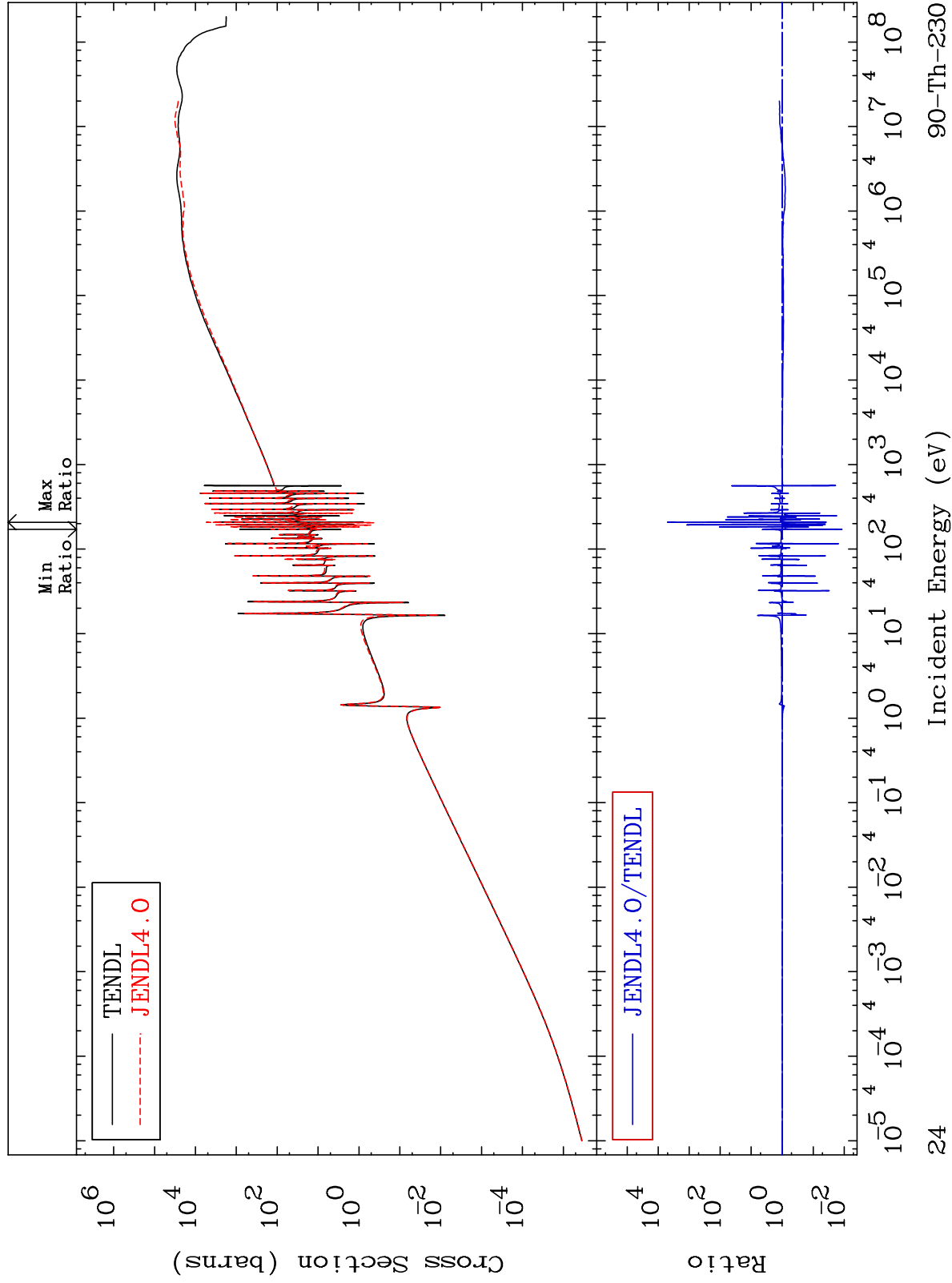




MAT 9034

Kerma elastic  
Cross Section

90-Th-230  
-98.84 To 9999. %



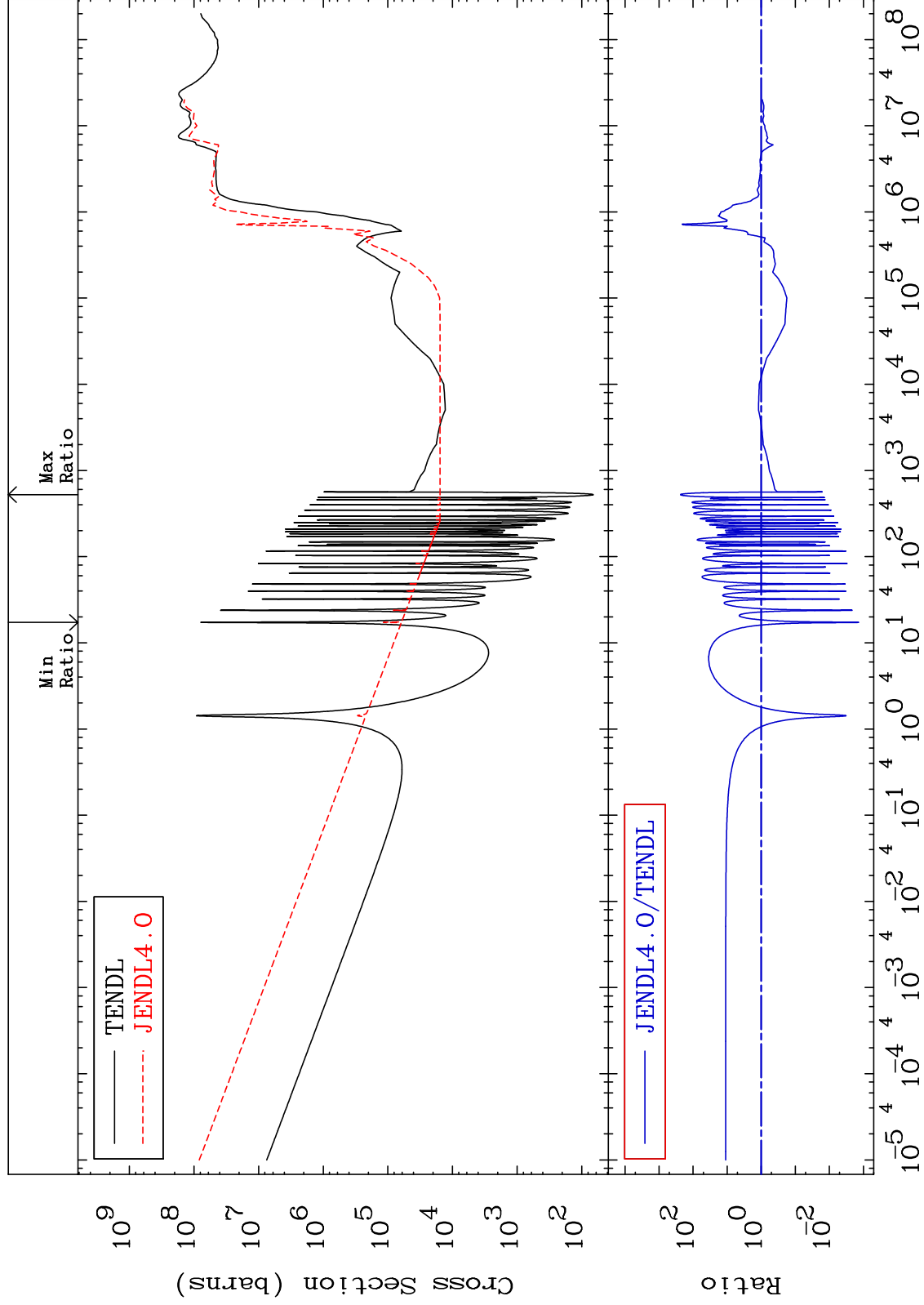
MAT 9034

Kerma non-elastic (all but mt2)

90-Th-230

-99.86 To 9999. %

Cross Section



25

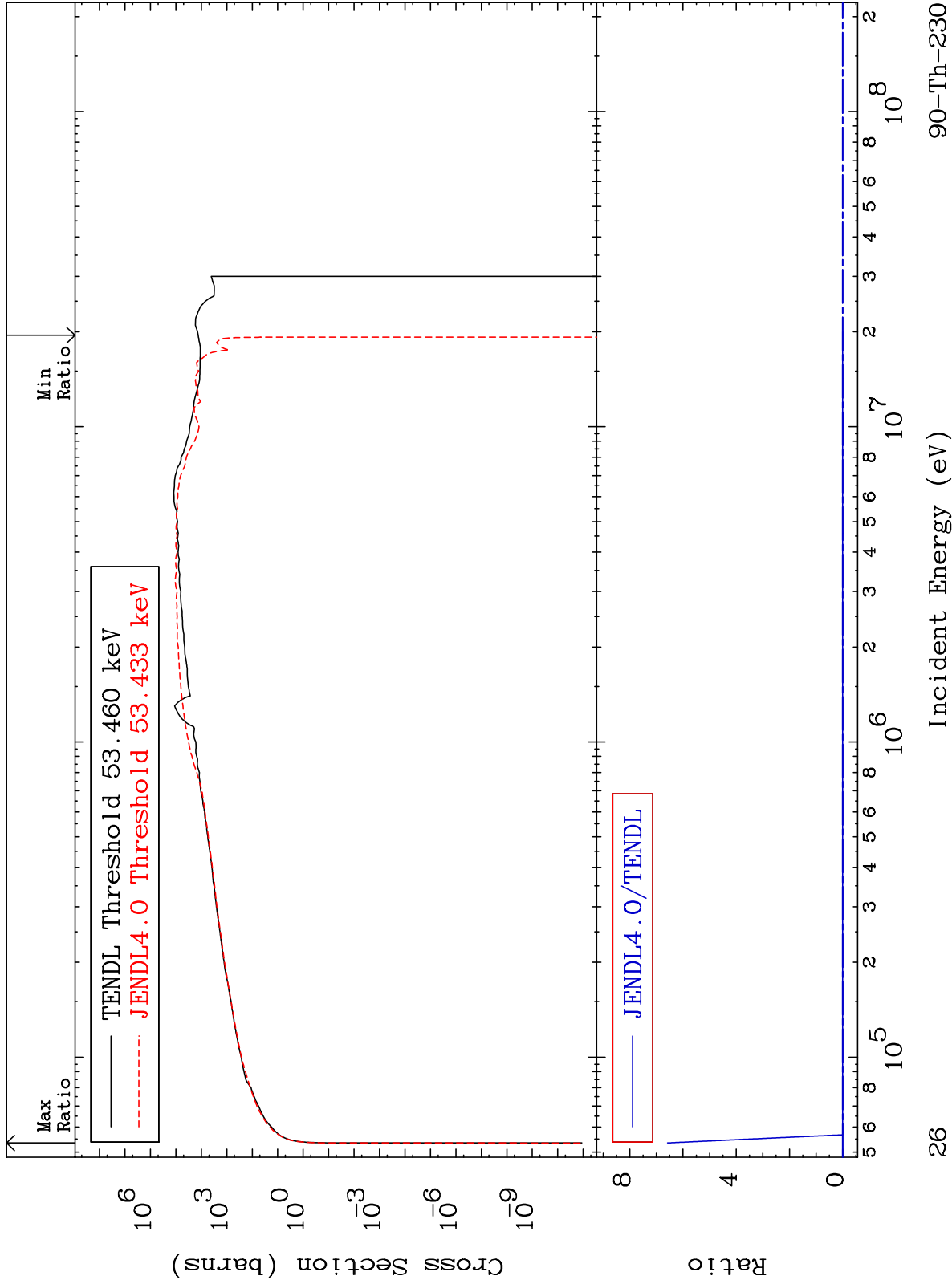
Incident Energy (eV)

90-Th-230

MAT 9034

Kerma inelastic (mt51-91)  
Cross Section

90-Th-230  
-114.1 To 9999. %



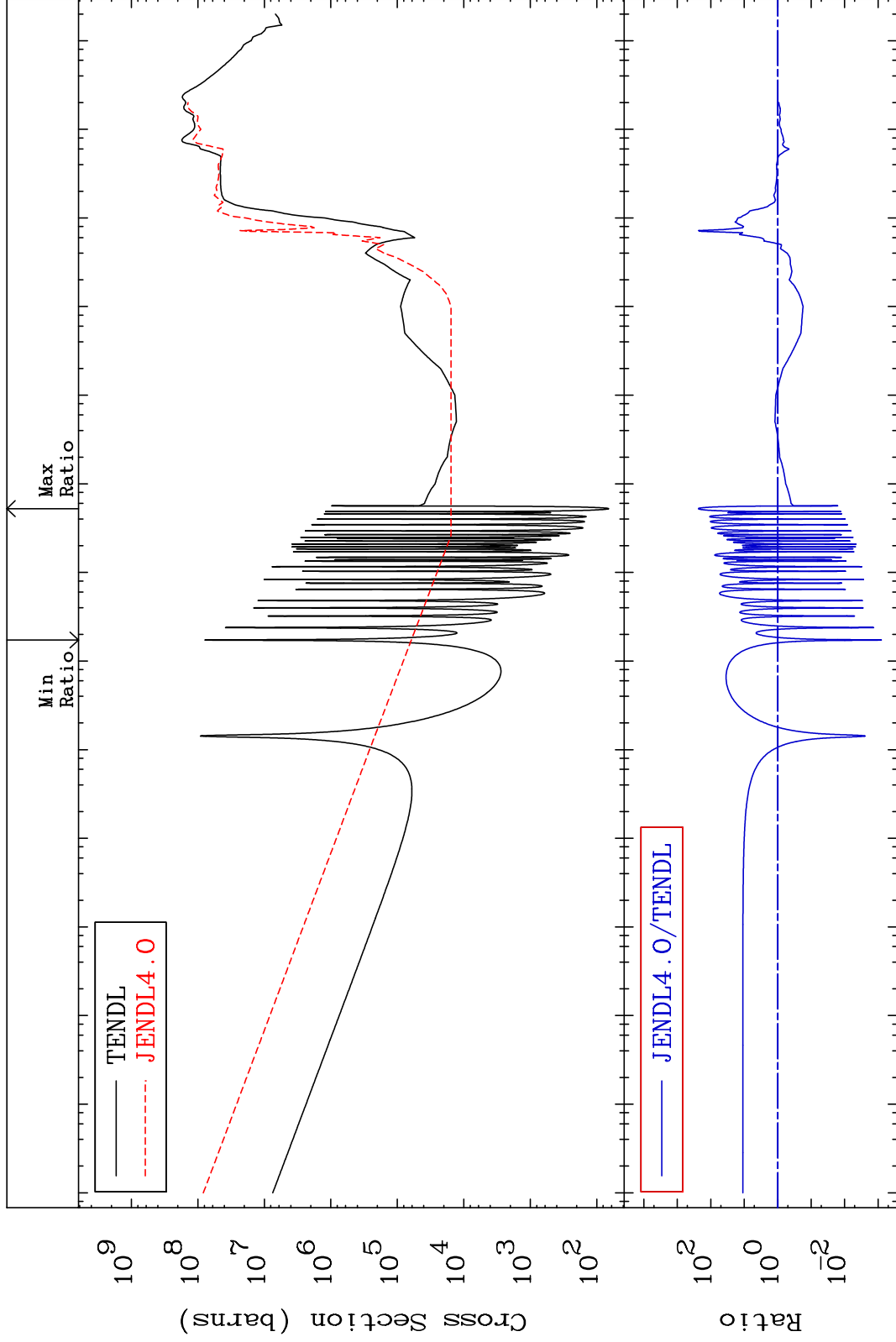
MAT 9034

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

90-Th-230

-99.92 To 9999. %

Cross Section



27

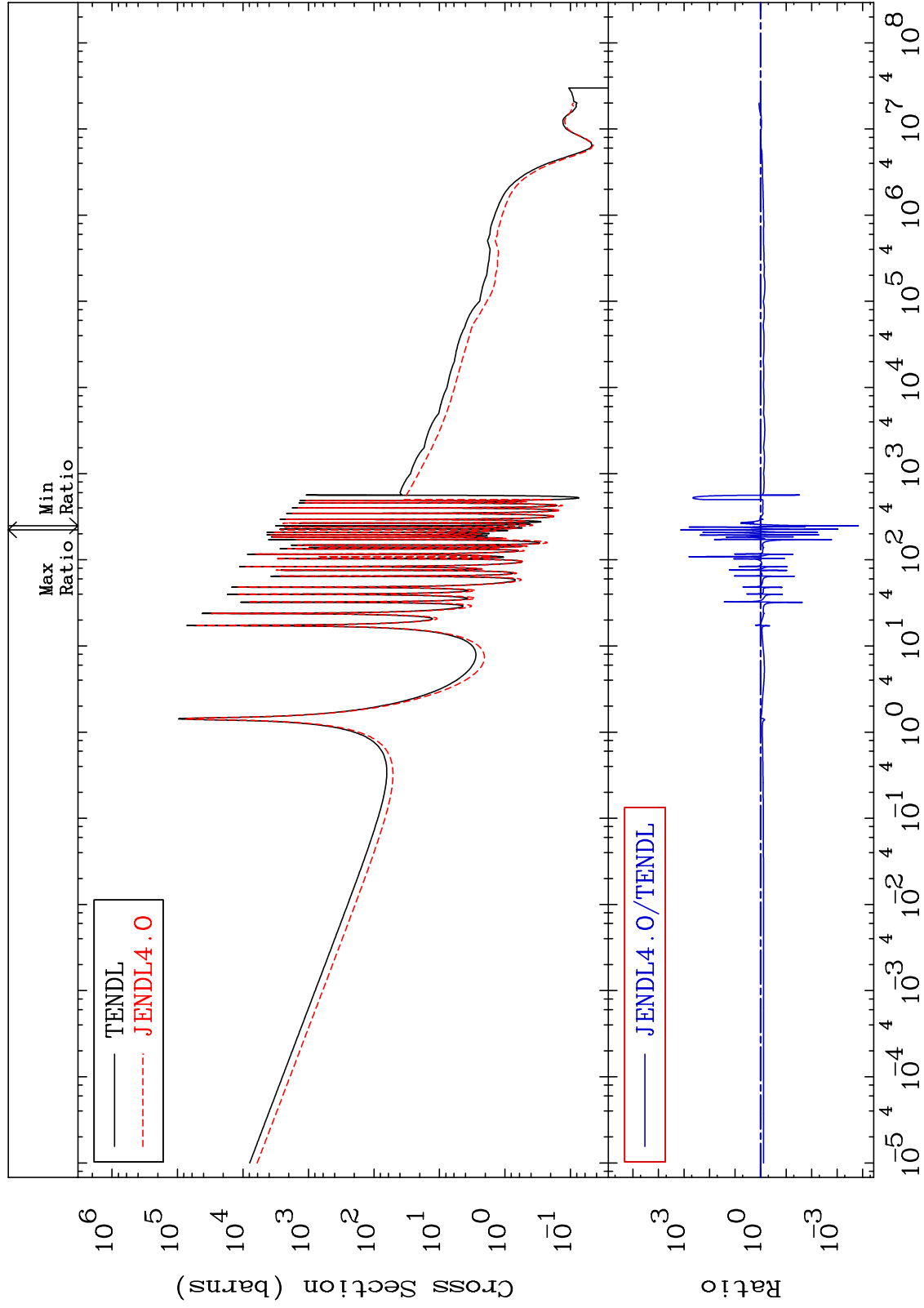
Incident Energy (eV)

90-Th-230

MAT 9034

Kerma capture (mt102)  
Cross Section

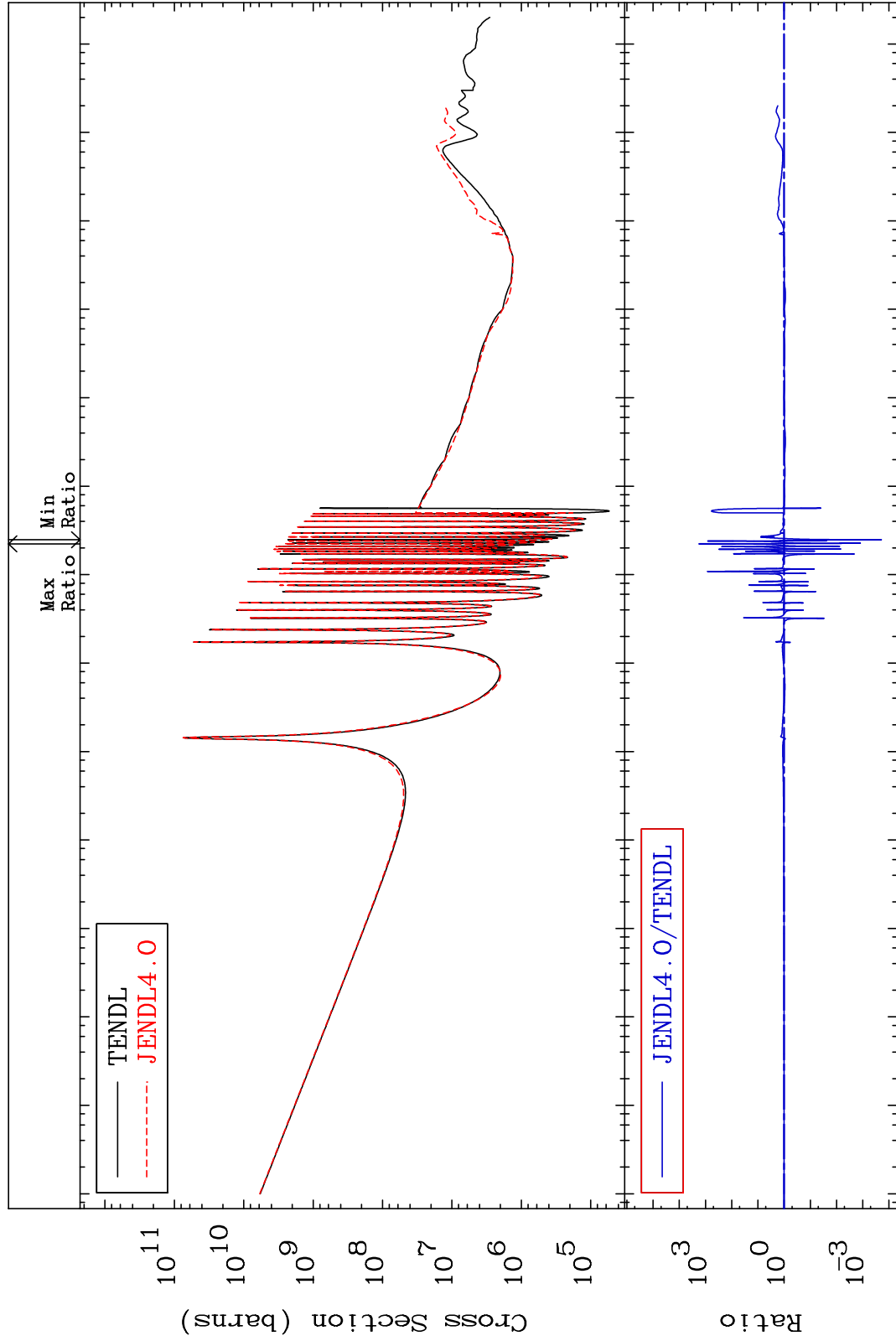
90-Th-230  
-99.99 To 9999. %



MAT 9034

Total photon (eV-barns)  
Cross Section

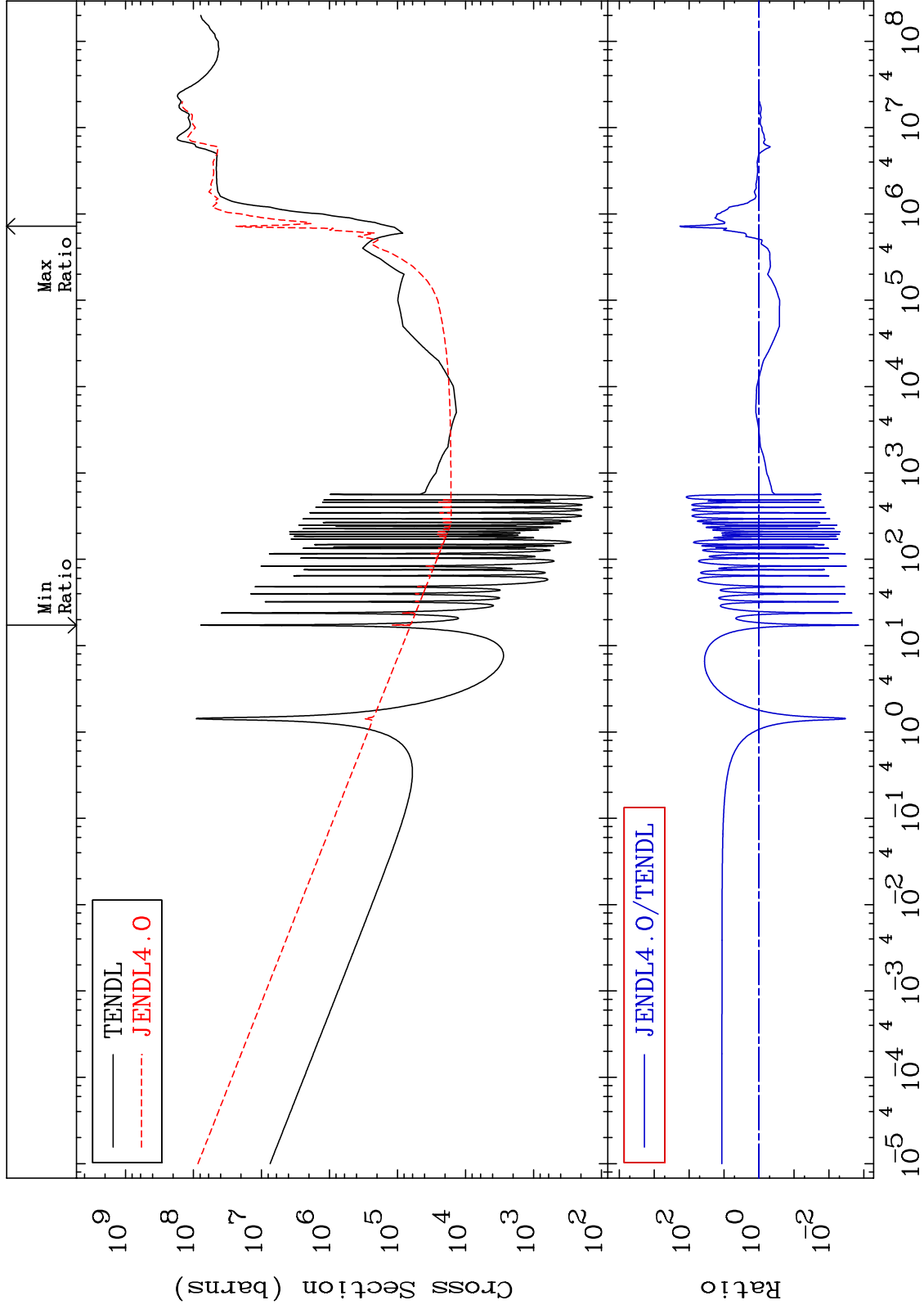
90-Th-230  
-99.98 To 9999. %



MAT 9034

Total kinematic kerma (high limit)  
Cross Section

90-Th-230  
-99.86 To 9999. %



30

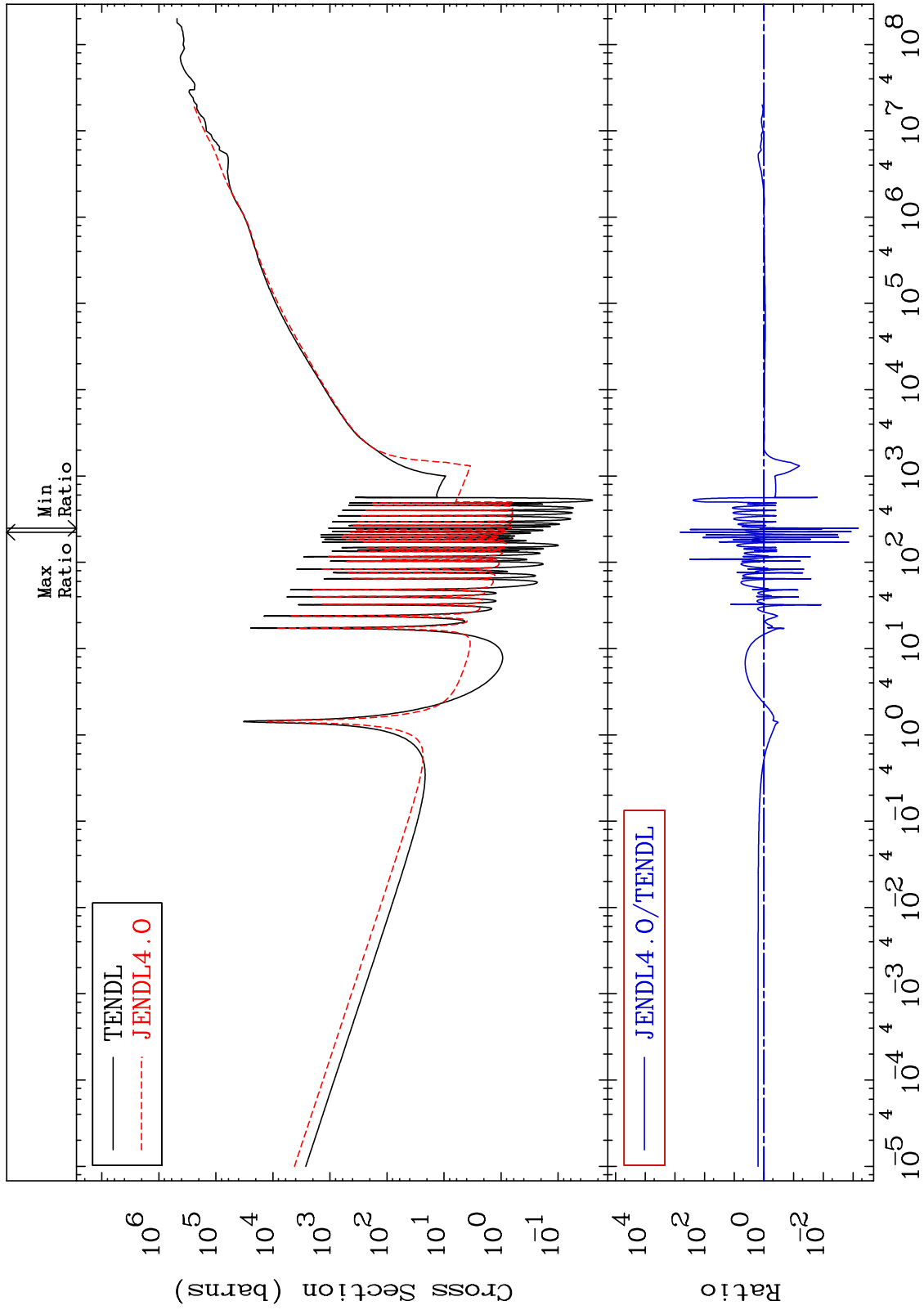
Incident Energy (eV)

90-Th-230

MAT 9034

Dpa total (eV-barns)  
Cross Section

90-Th-230  
-99.93 To 9999. %

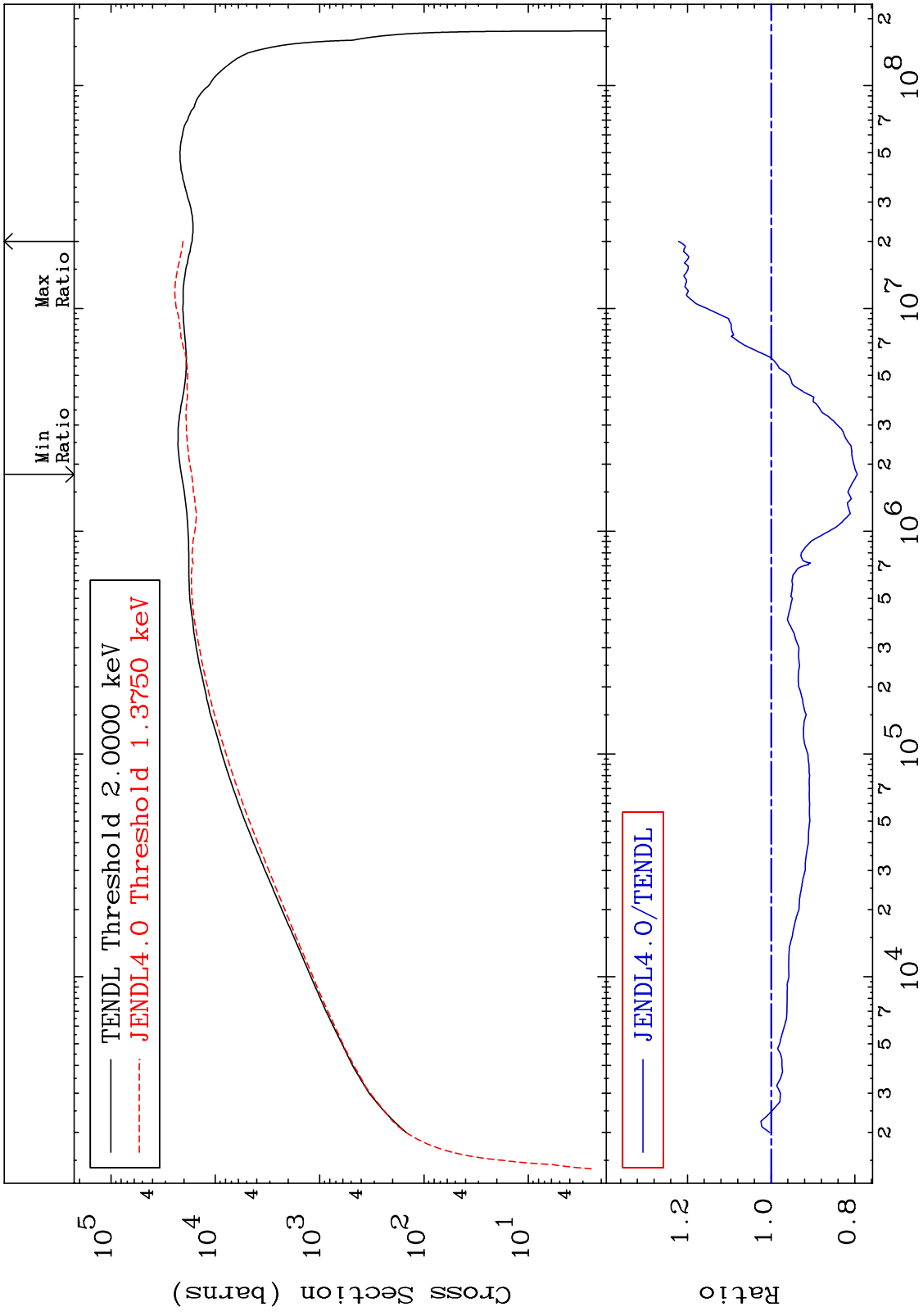




MAT 9034

Dpa elastic (mt2)  
Cross Section

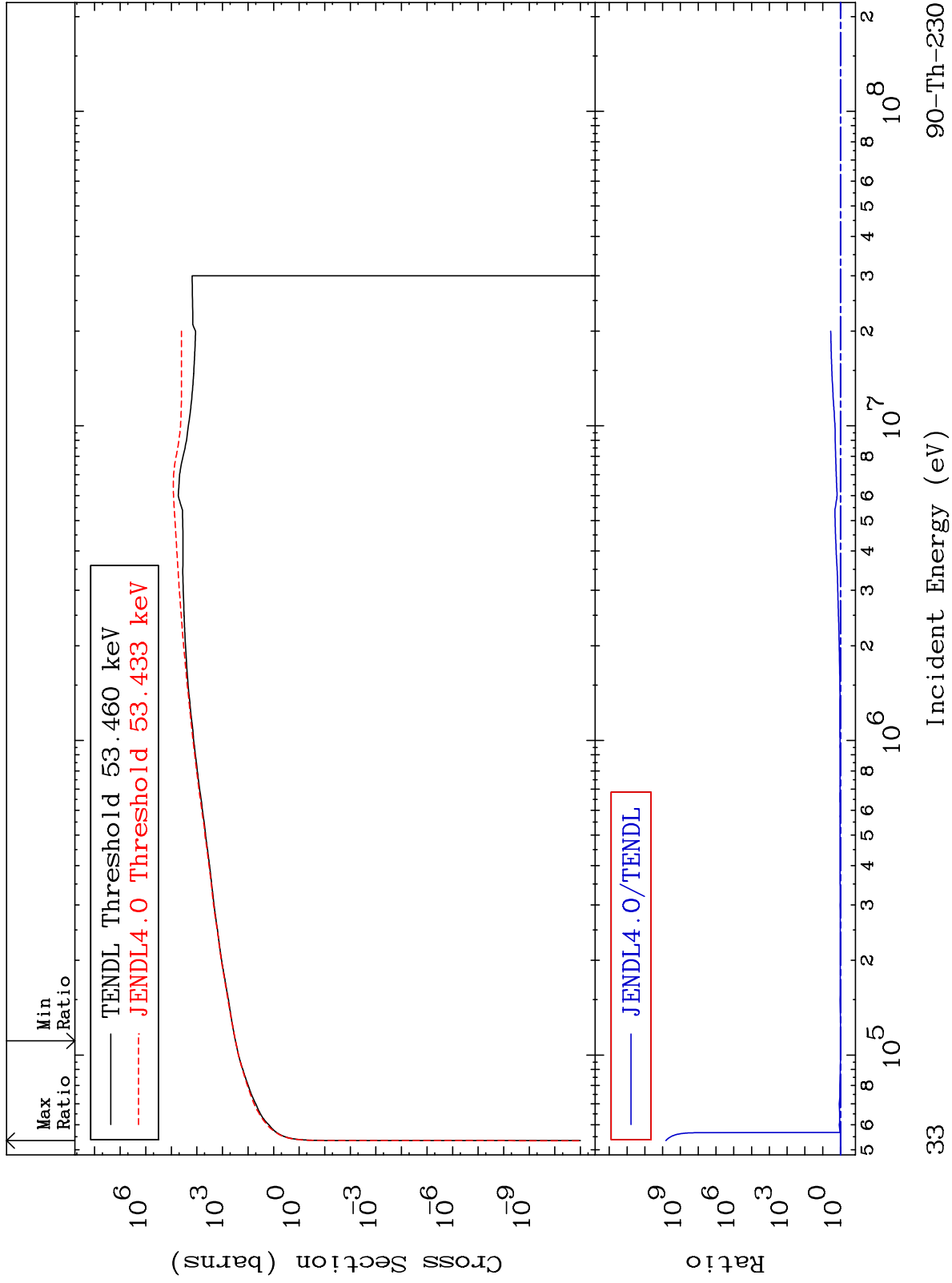
90-Th-230  
-20.60 To 22.12 %



MAT 9034

Dpa inelastic (mt51-91)  
Cross Section

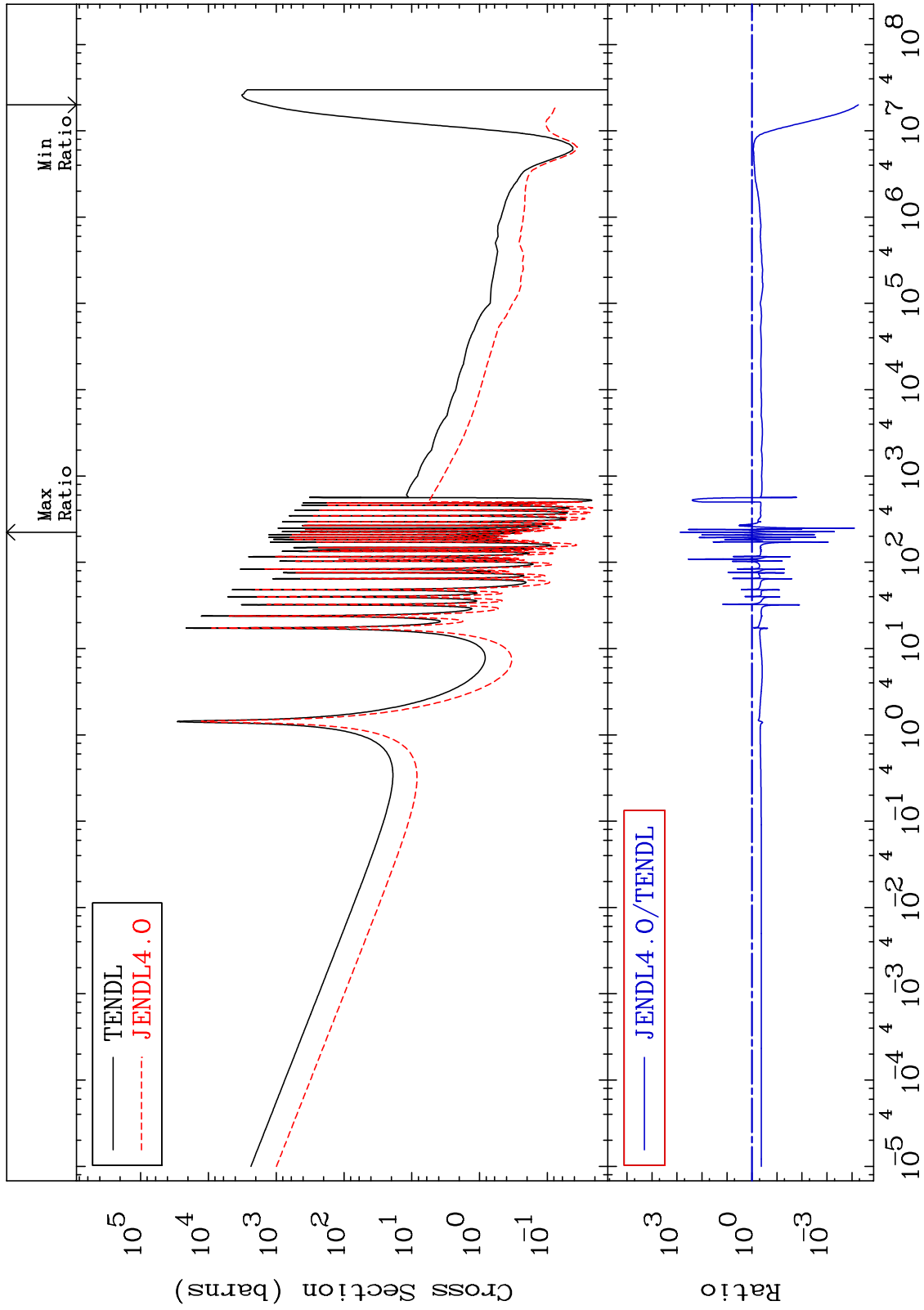
90-Th-230  
-0.890 To 9999. %



MAT 9034

Dpa disappearance (mt102 -120)  
Cross Section

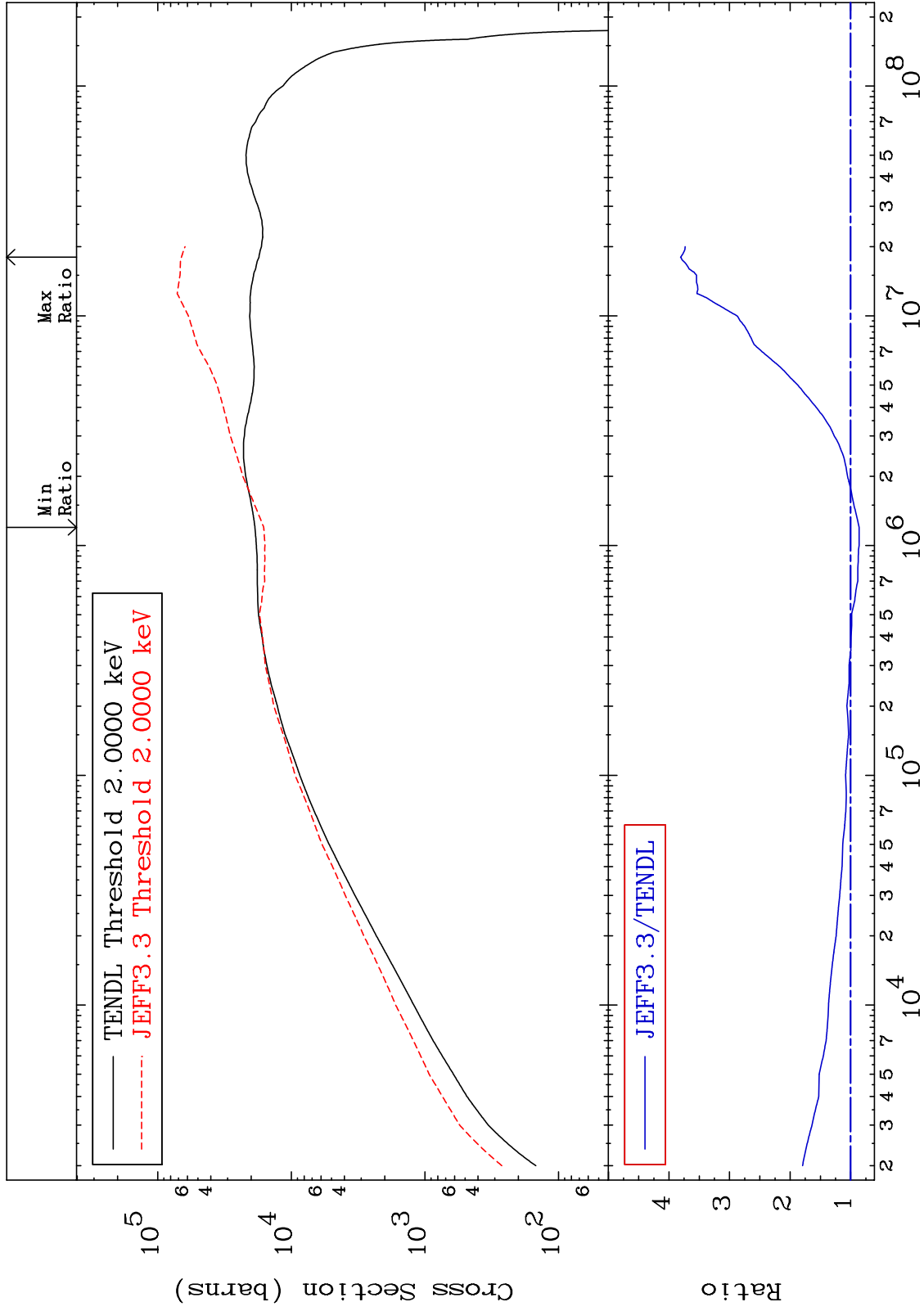
90-Th-230  
-99.99 To 9999. %



MAT 9034

Dpa elastic (mt2)  
Cross Section

90-Th-230  
-14.03 To 280.8 %



35

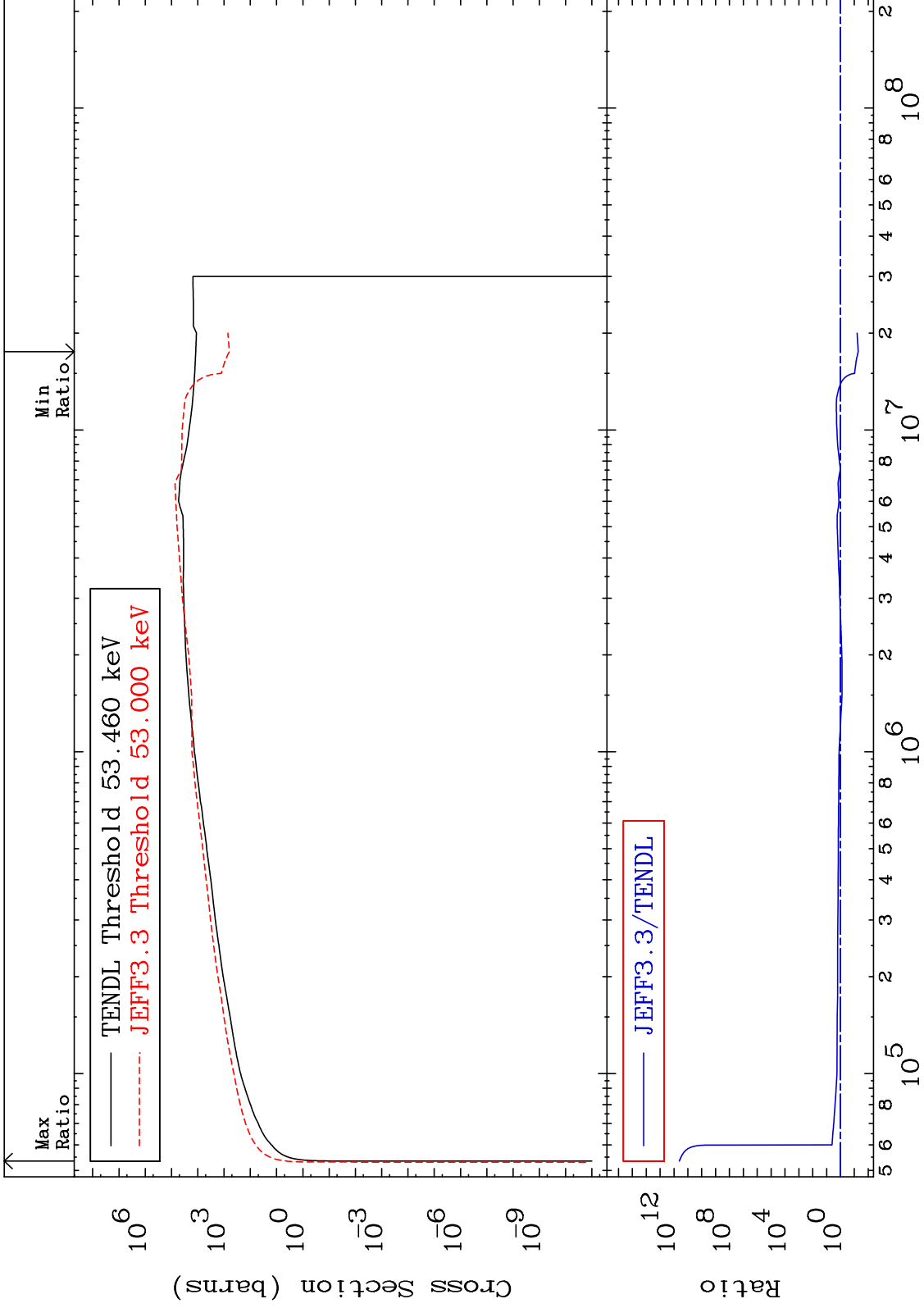
Incident Energy (eV)

90-Th-230

MAT 9034

Dpa inelastic (mt51-91)  
Cross Section

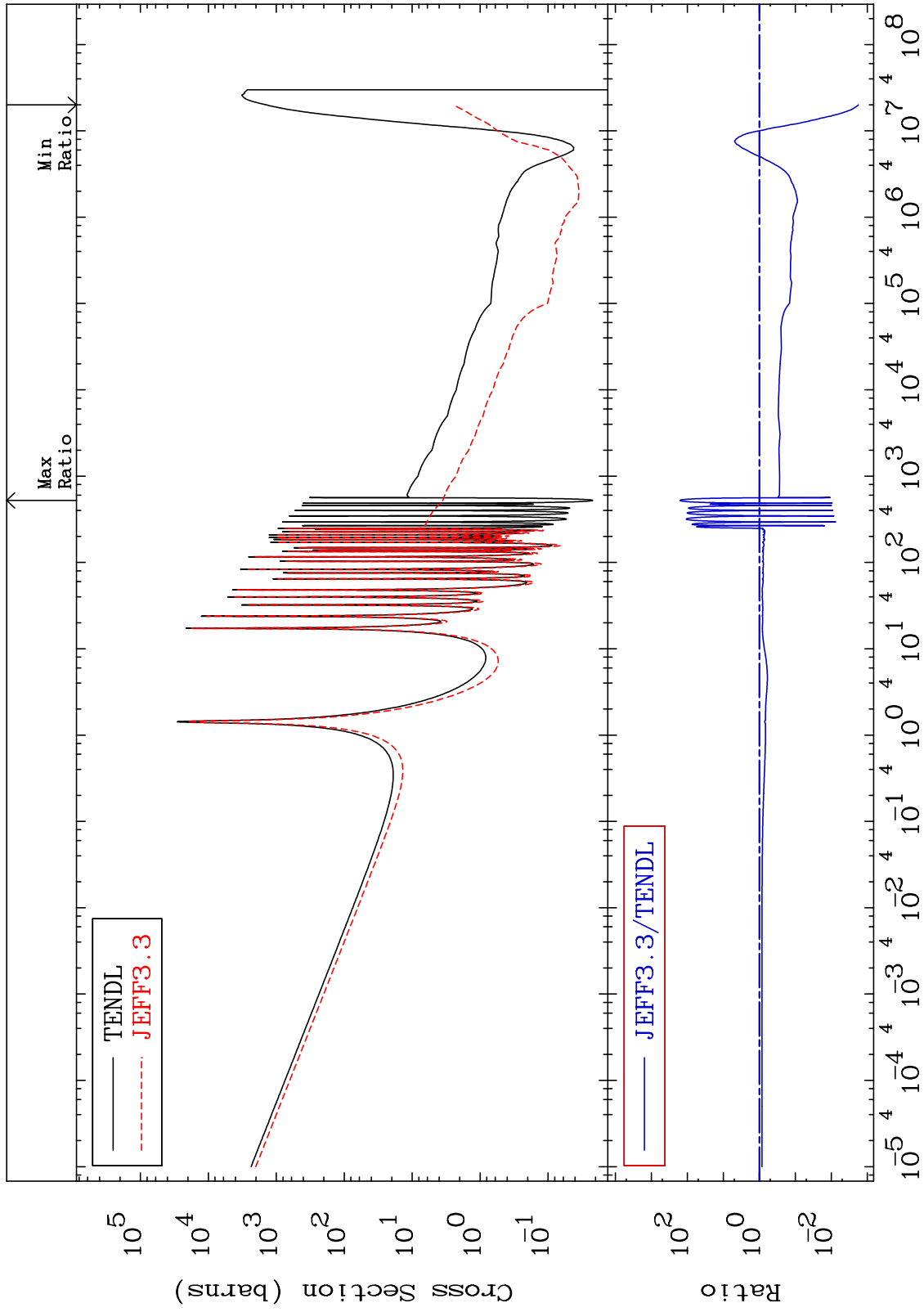
90-Th-230  
-94.75 To 9999. %



MAT 9034

Dpa disappearance (mt102 -120)  
Cross Section

90-Th-230  
-99.82 To 9999. %



37

Incident Energy (eV)

90-Th-230