

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

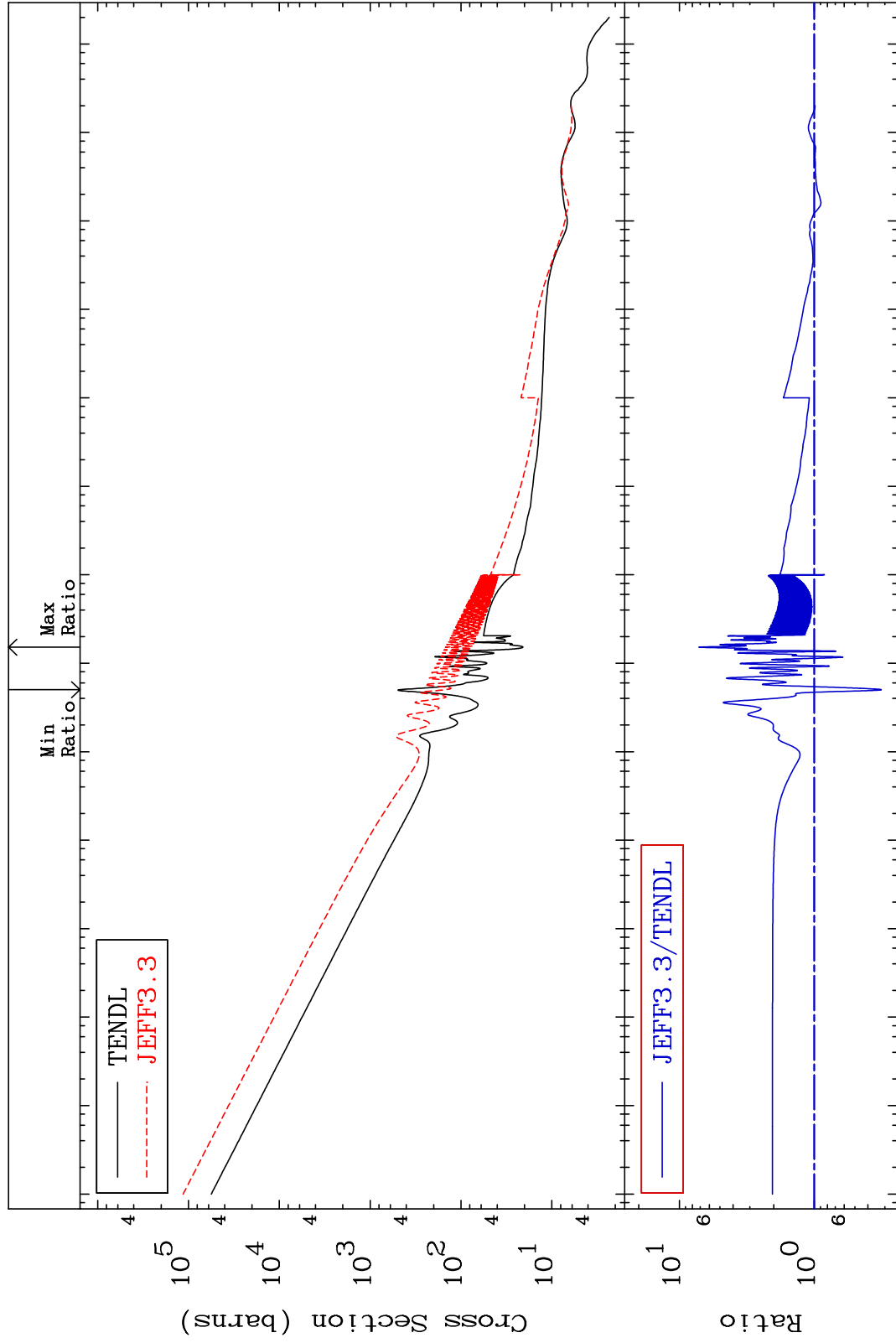
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 9349

93-Np-238
-68.28 To 618.9 %

Total
Cross Section



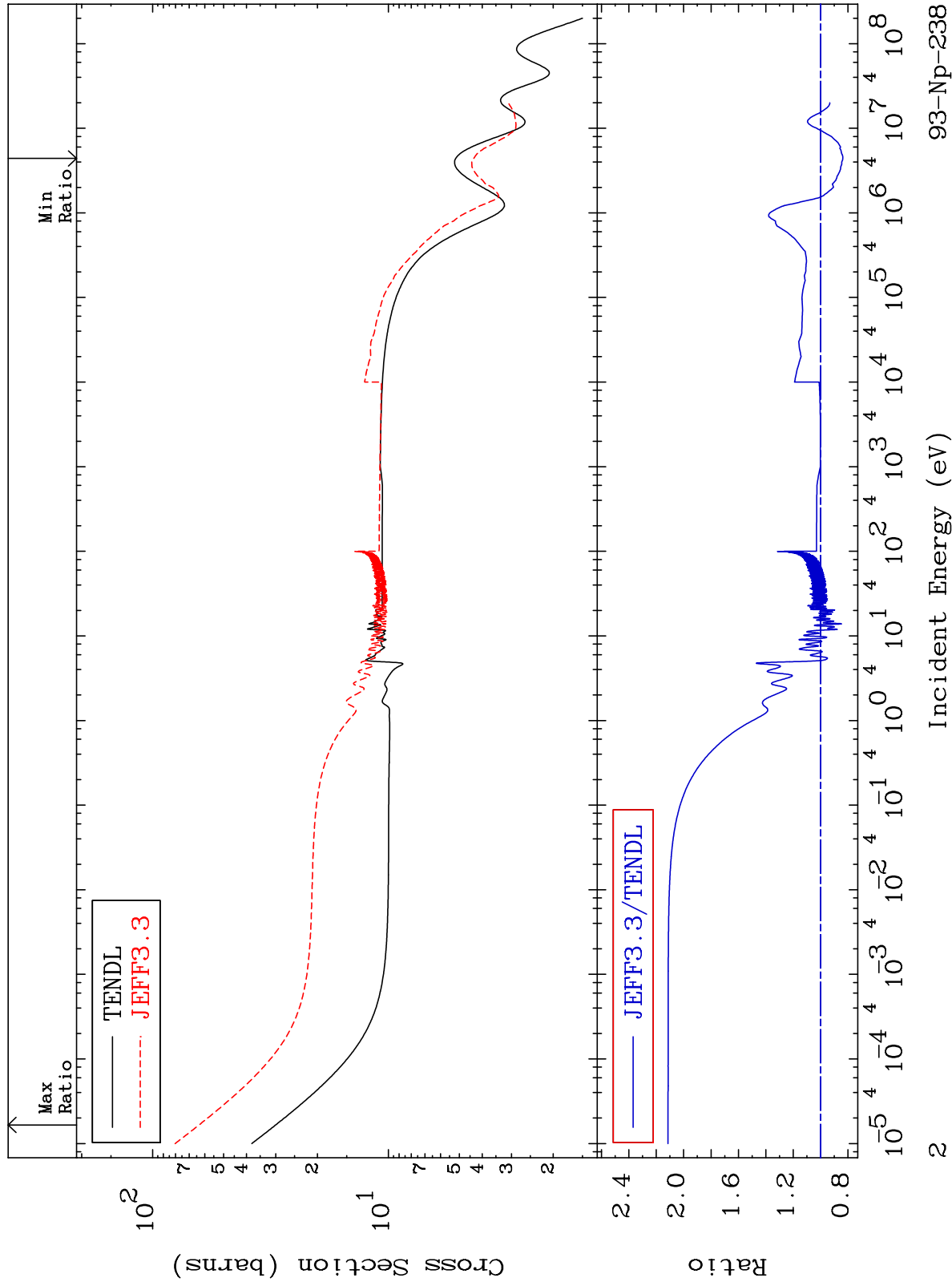
93-Np-238

Incident Energy (eV)

MAT 9349

Elastic
Cross Section

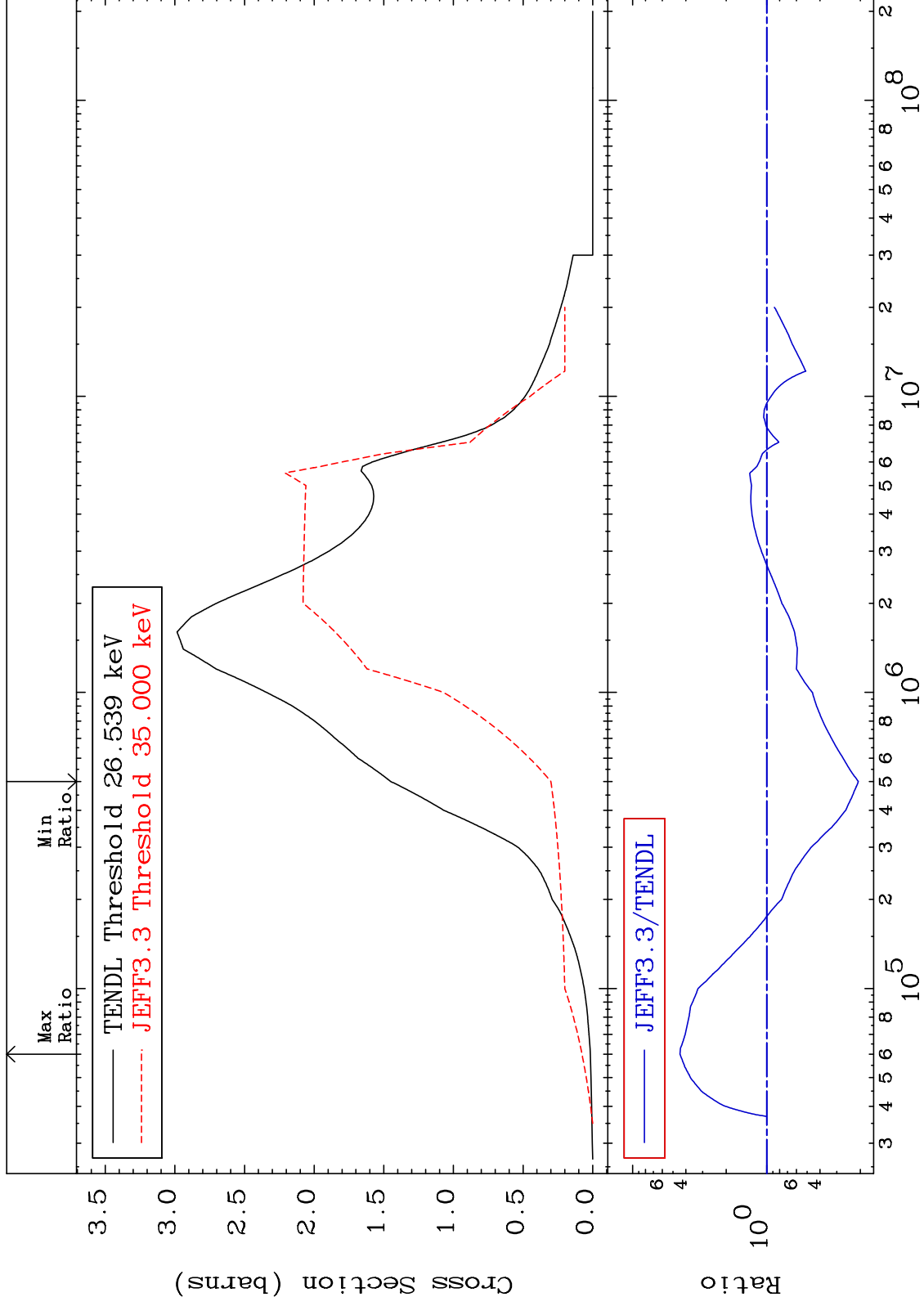
93-Np-238
-16.22 To 111.4 %



MAT 9349

Inelastic
Cross Section

93-Np-238
-79.30 To 342.7 %



Incident Energy (eV)

93-Np-238

3

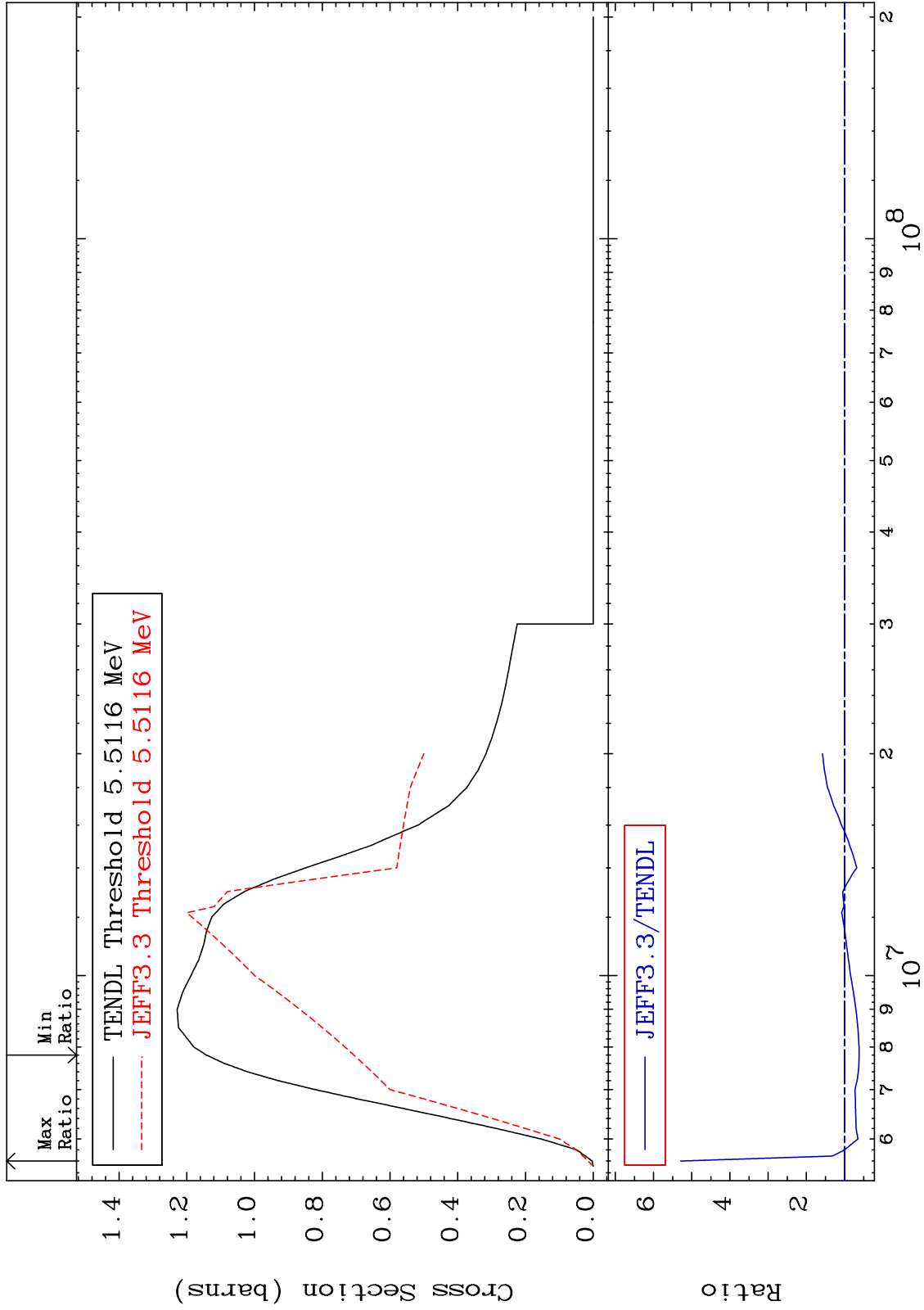
MAT 9349

(n,2n)

93-Np-238

Cross Section

-38.14 To 429.1 %



4

Incident Energy (eV)

93-Np-238

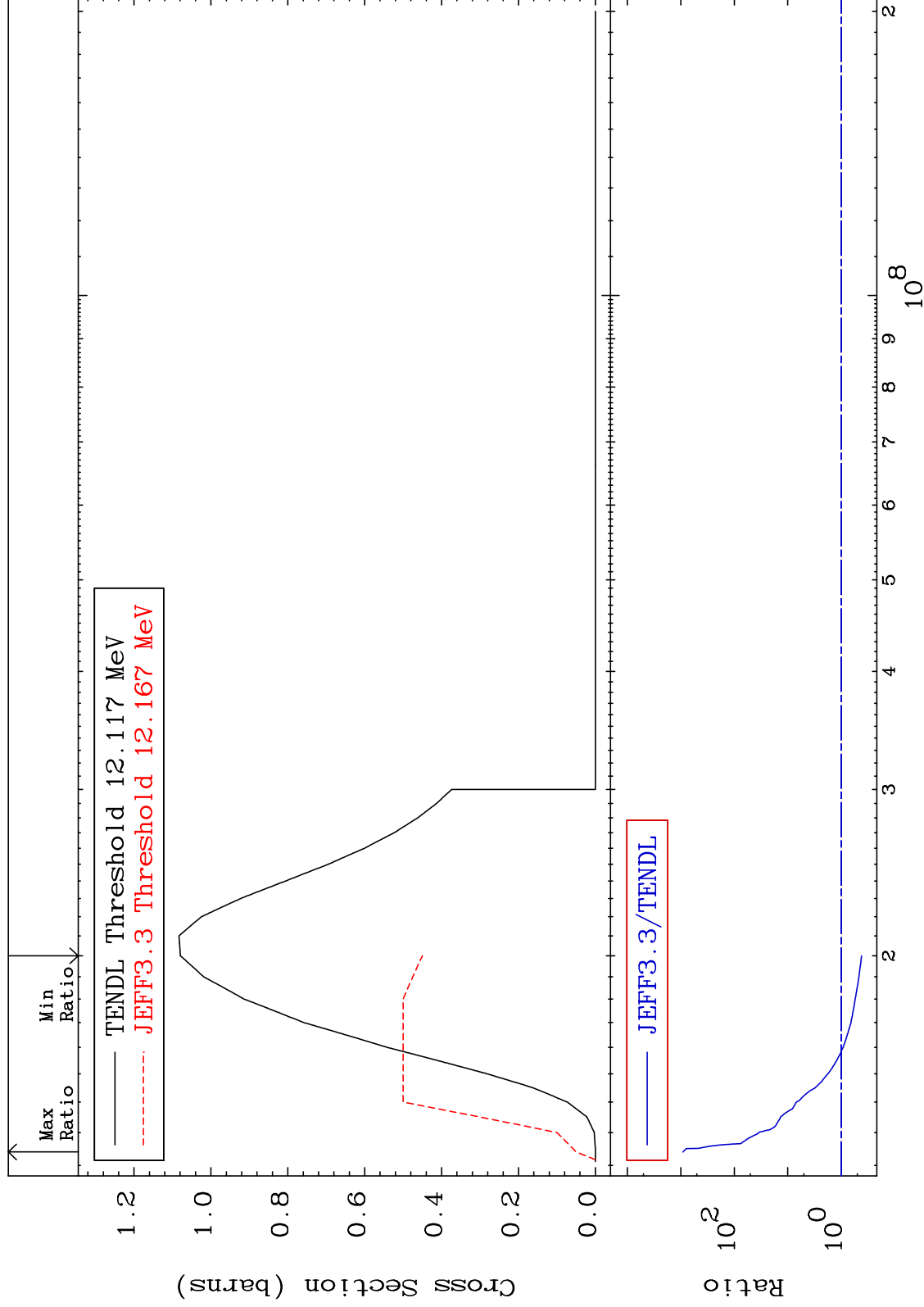
MAT 9349

(n, 3n)

93-Np-238

Cross Section

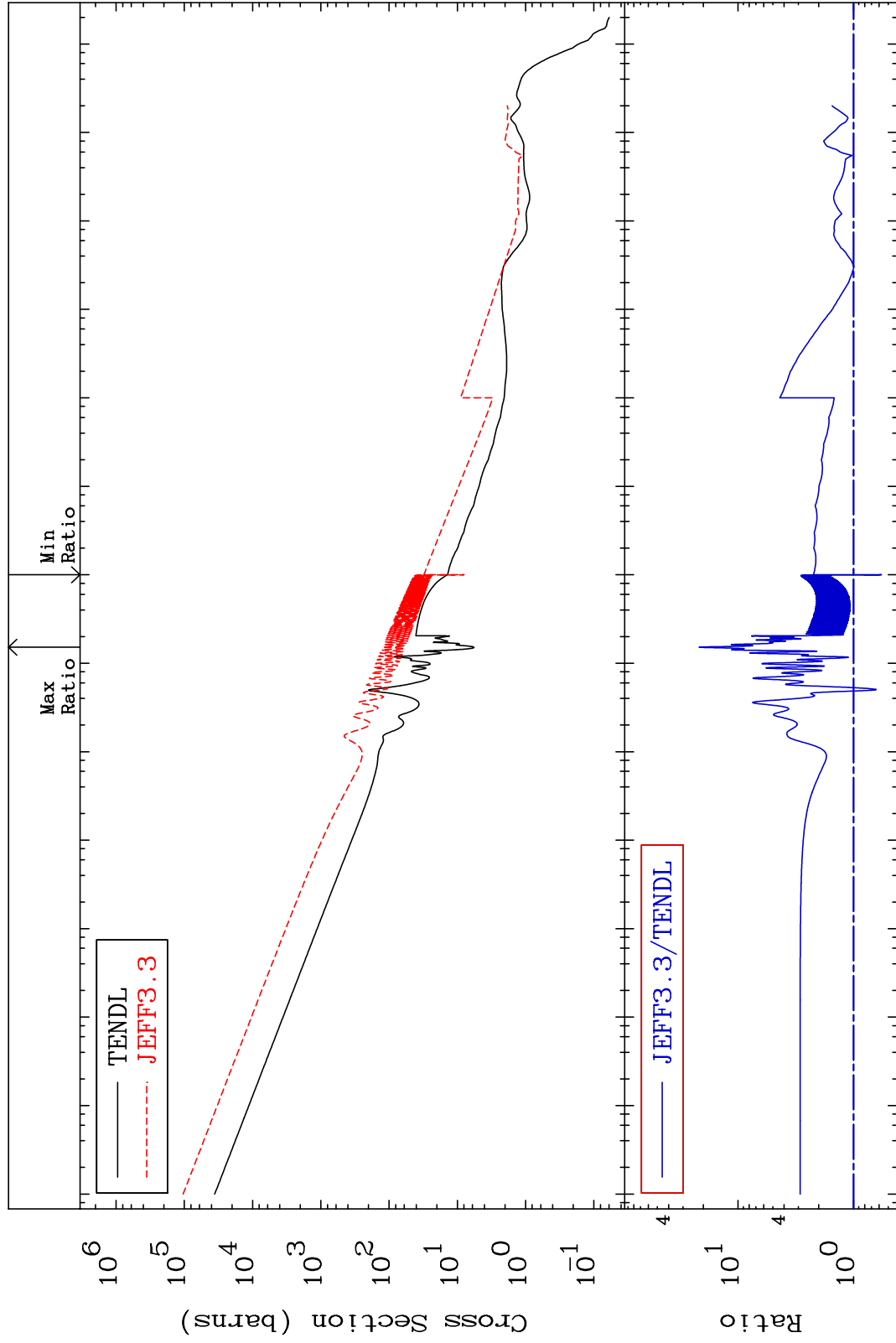
-58.31 To 9999. %



MAT 9349

Fission Cross Section

93-Np-238
-42.82 To 2093. %



6

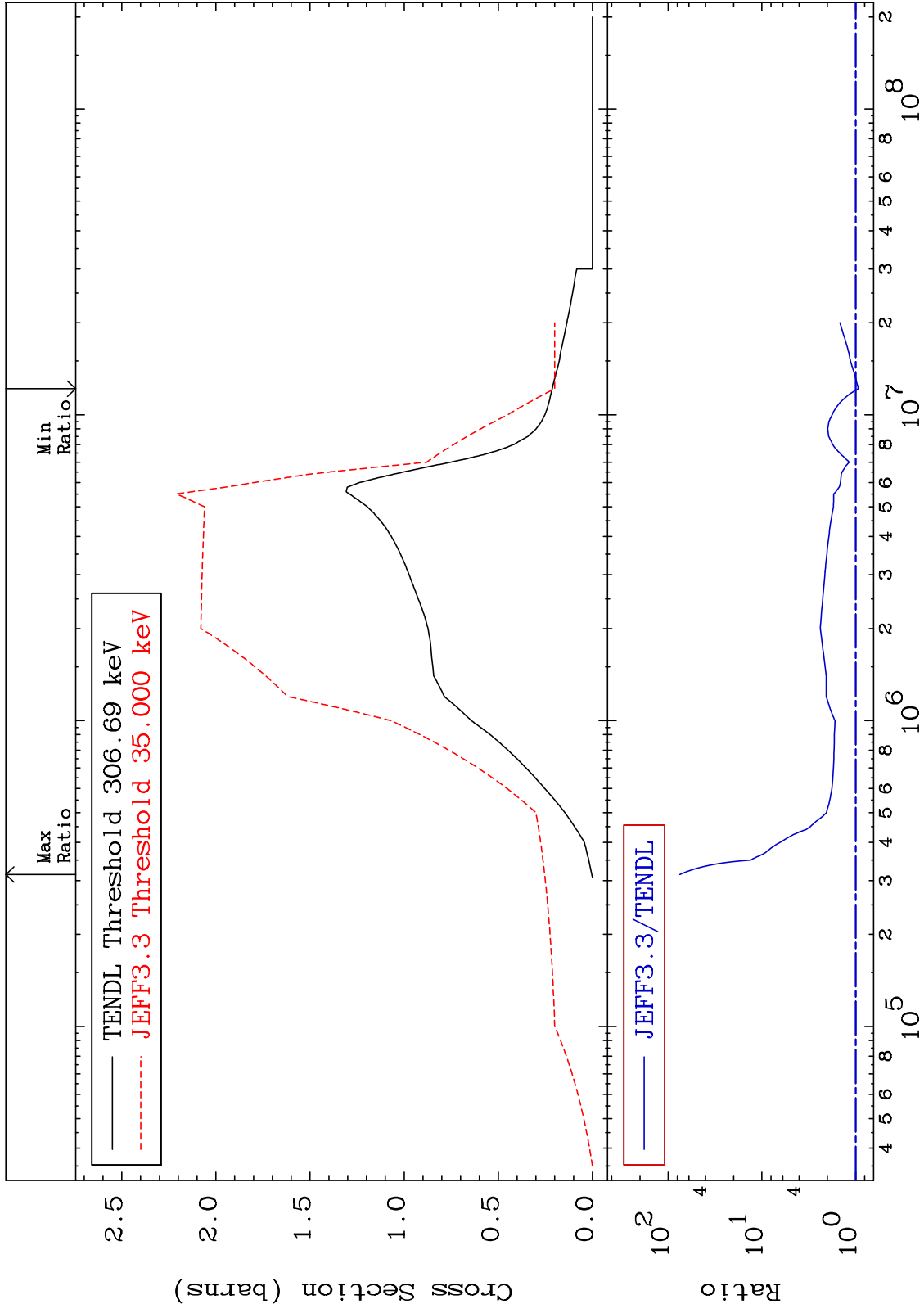
Incident Energy (eV)

93-Np-238

MAT 9349

(n, n') Continuum
Cross Section

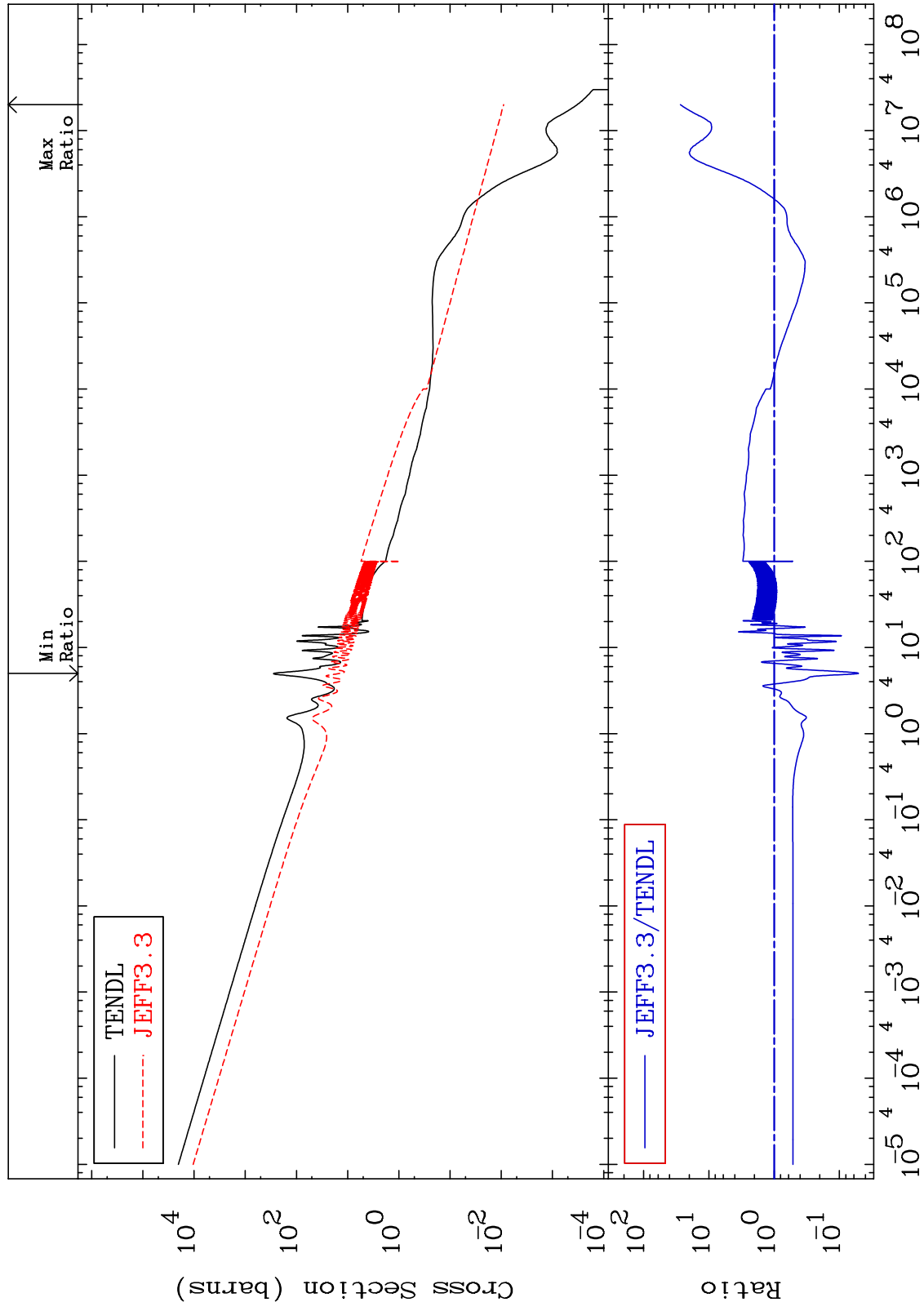
93-Np-238
-6.509 To 7409. %



MAT 9349

(n, γ)
Cross Section

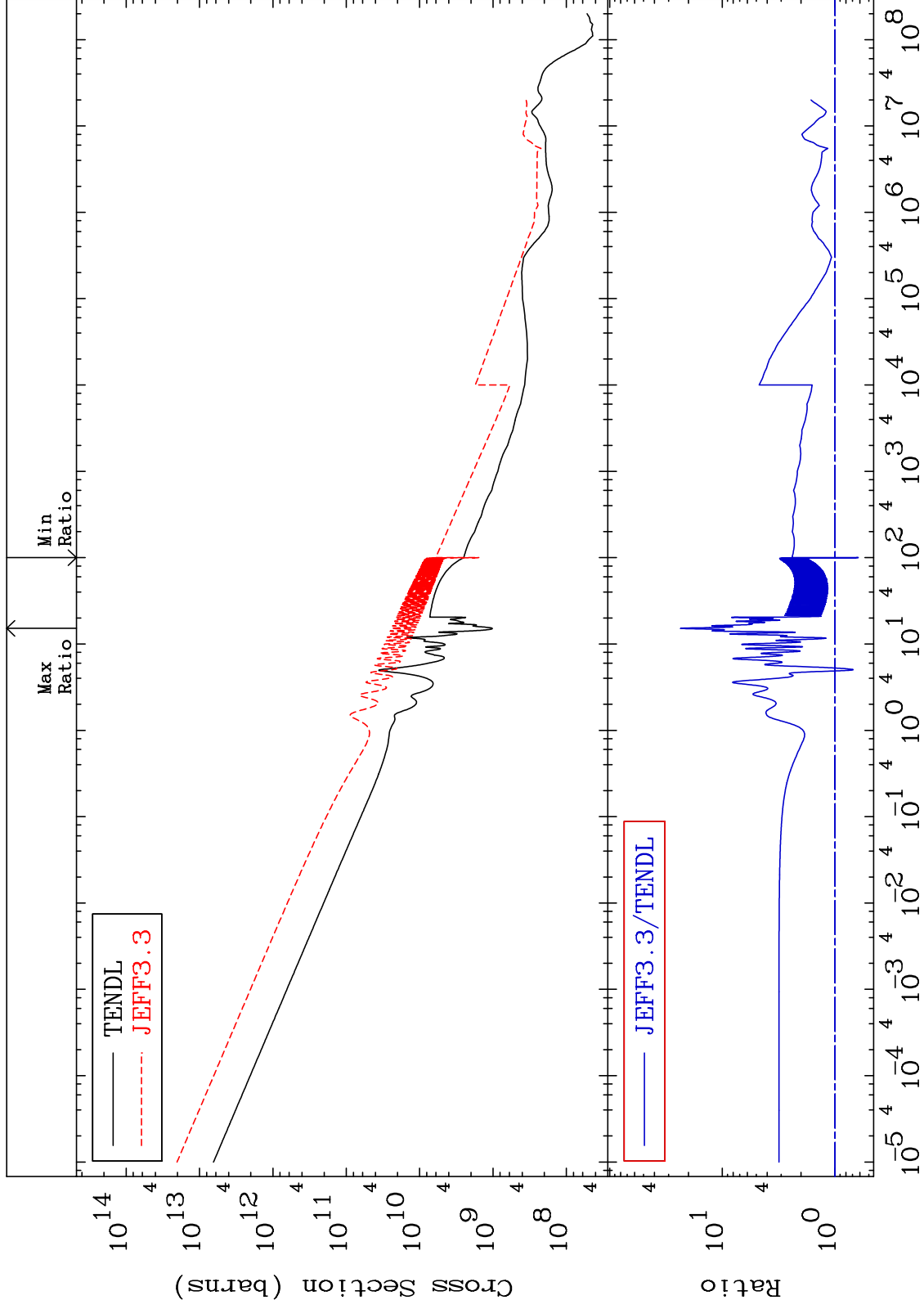
93-Np-238
-94.90 To 2626. %



MAT 9349

Kerma total (eV-barns)
Cross Section

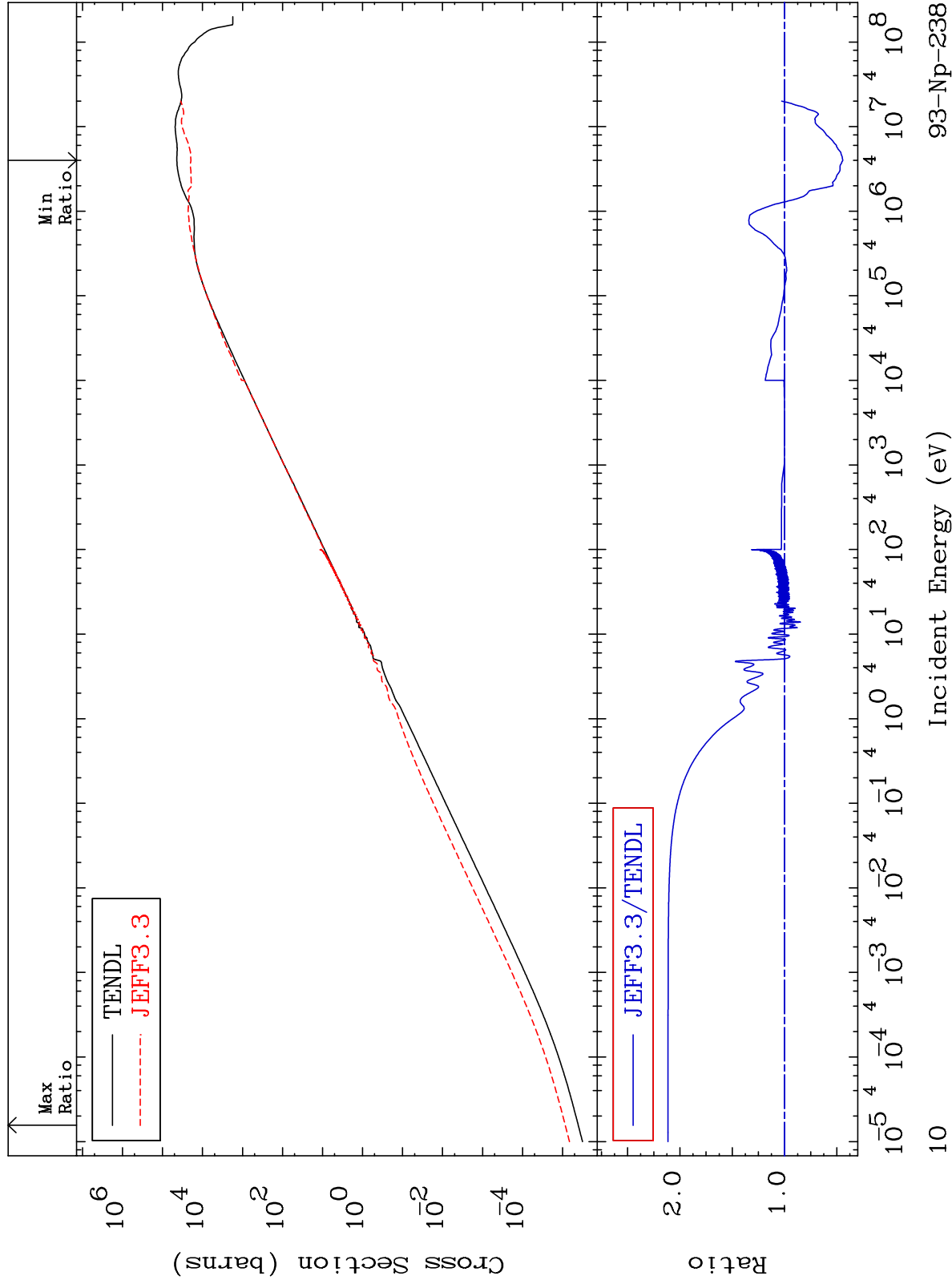
93-Np-238
-38.12 To 2273. %



MAT 9349

Kerma elastic
Cross Section

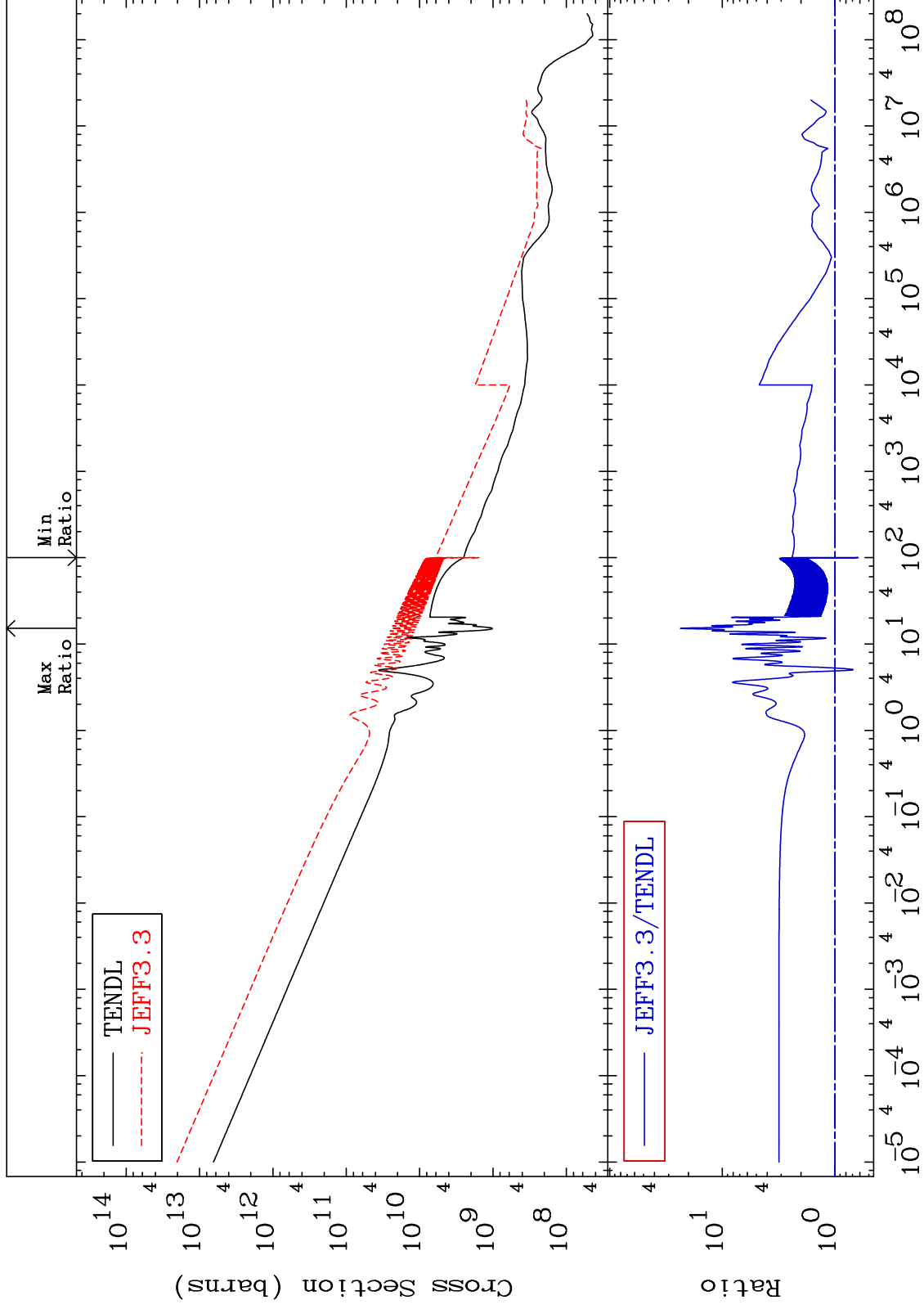
93-Np-238
-55.71 To 111.4 %



MAT 9349

Kerma non-elastic (all but mt2)
Cross Section

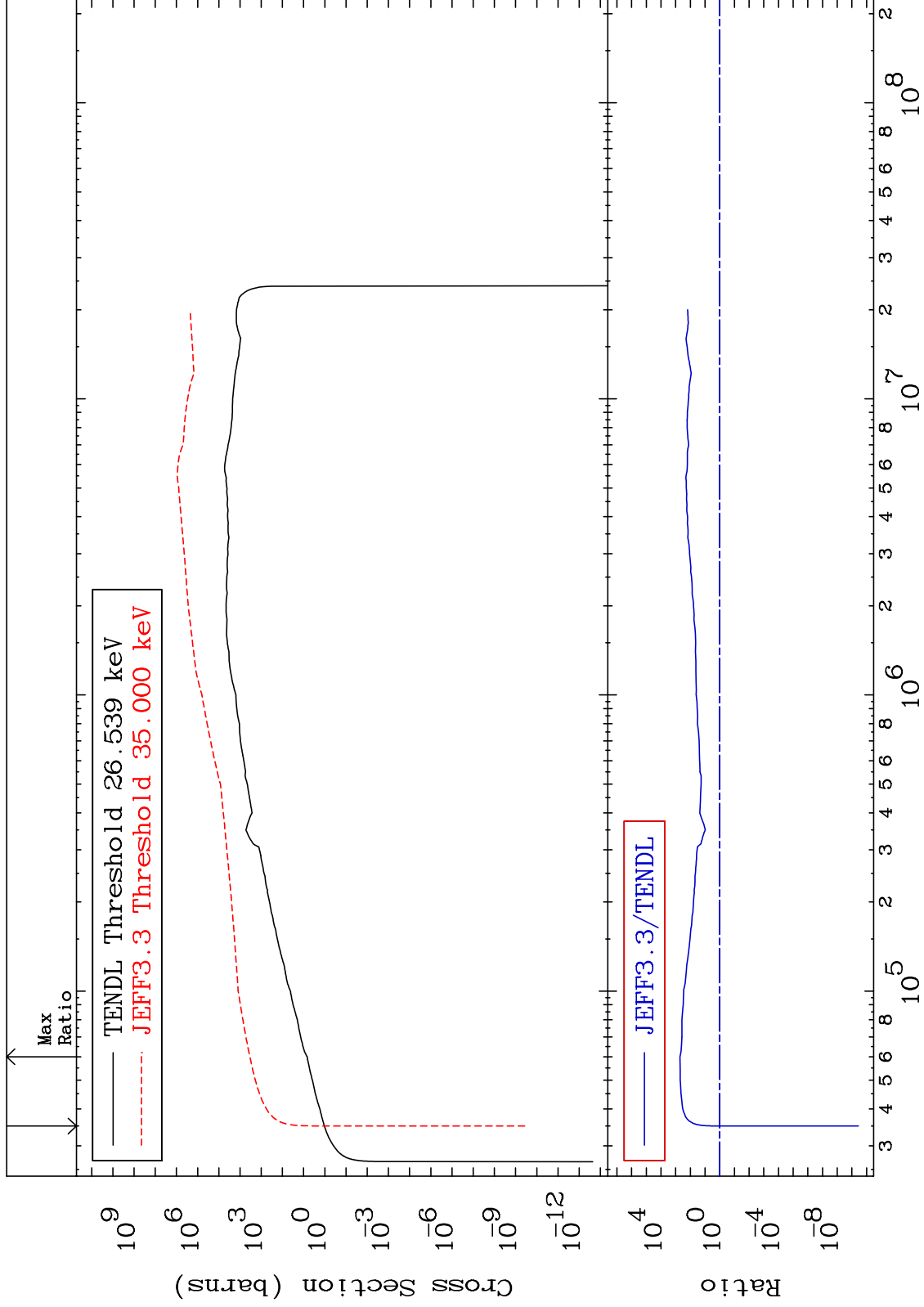
93-Np-238
-38.12 To 2273. %



MAT 9349

Kerma inelastic (mt51-91)
Cross Section

93-Np-238
-100.0 To 9999. %



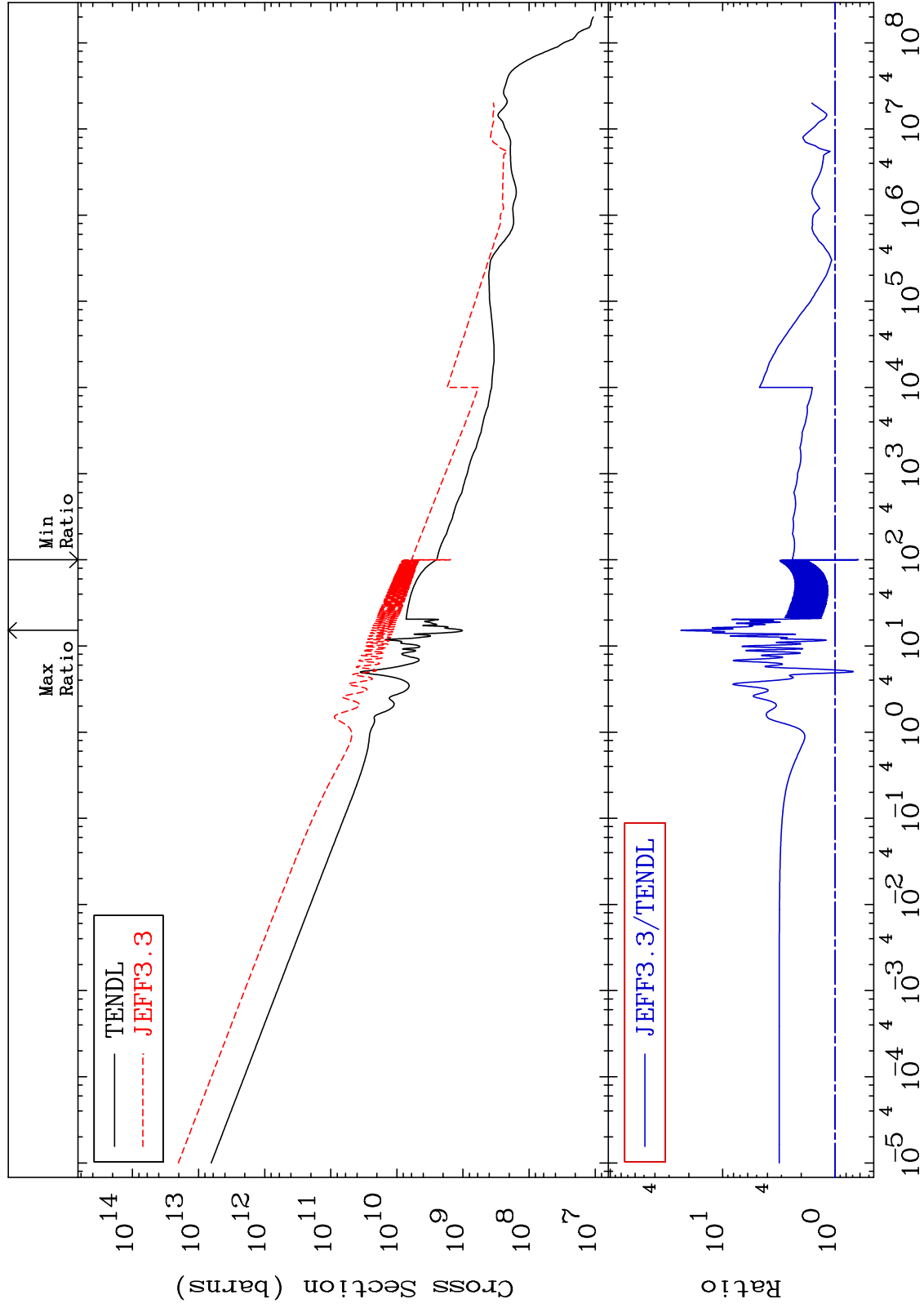
MAT 9349

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

93-Np-238

-38.12 To 2273. %

Cross Section



13

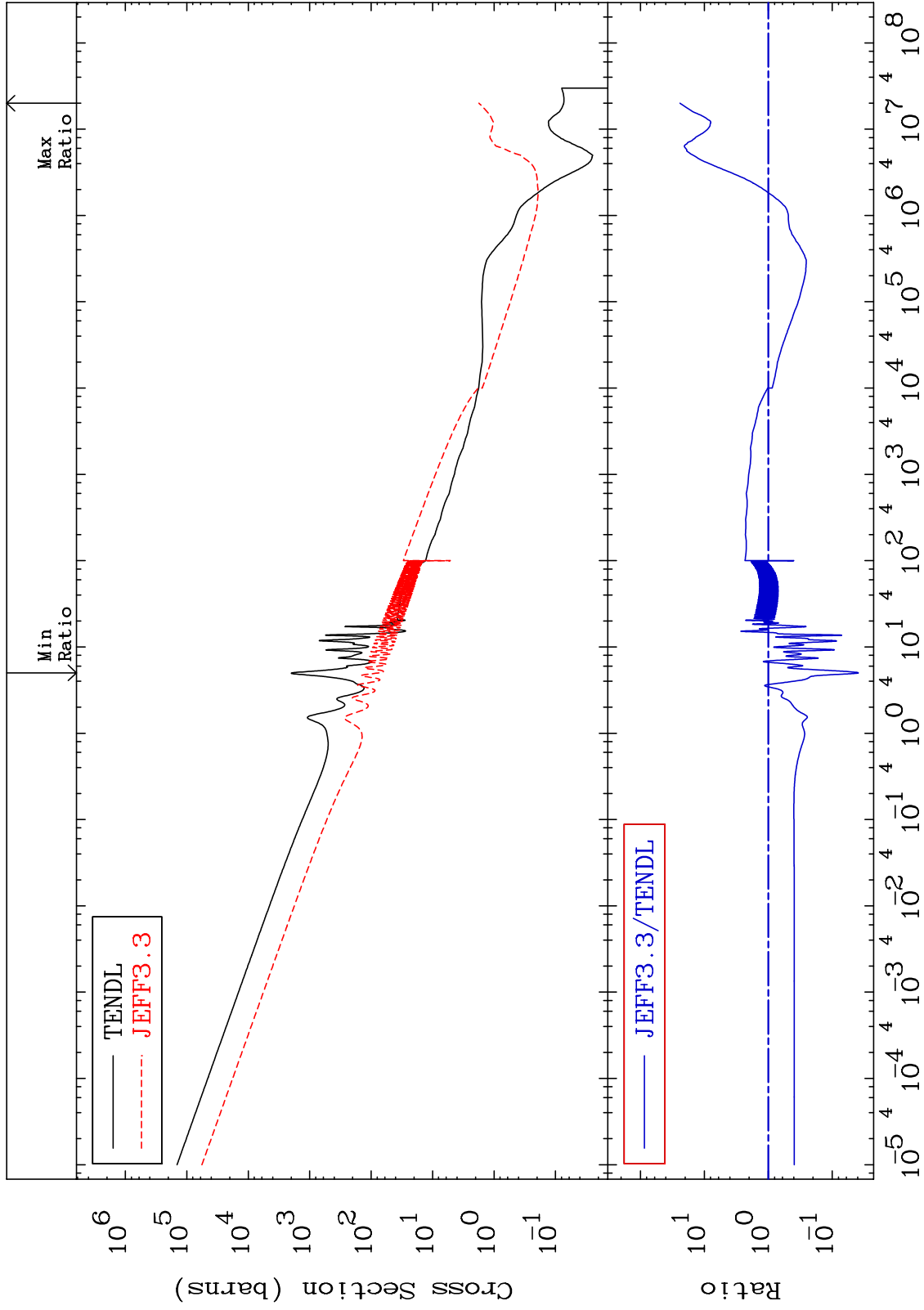
Incident Energy (eV)

93-Np-238

MAT 9349

Kerma capture (mt102)
Cross Section

93-Np-238
-96.10 To 2302. %

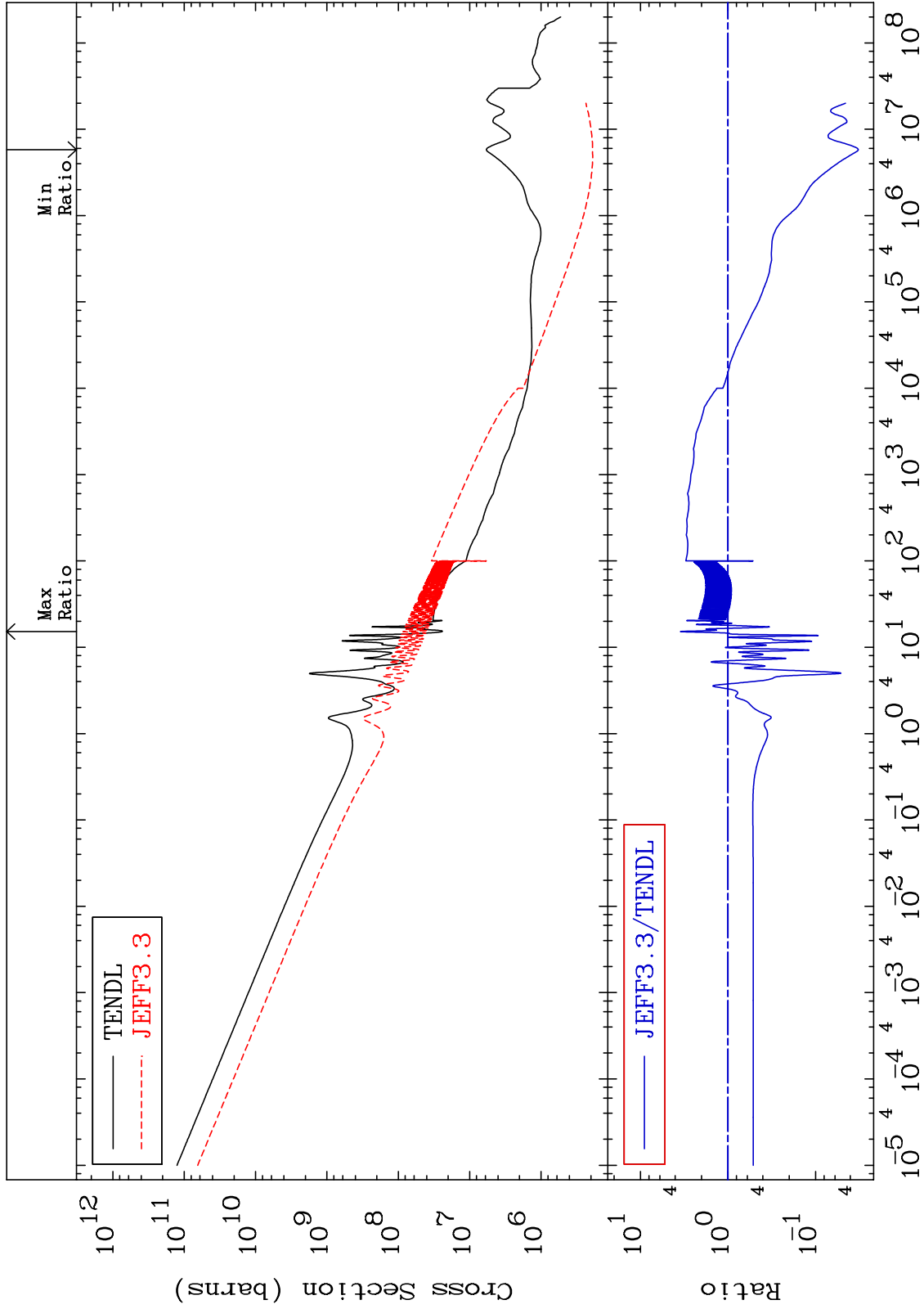


MAT 9349

Total photon (eV-barns)
Cross Section

93-Np-238

-96.76 To 253.0 %



15

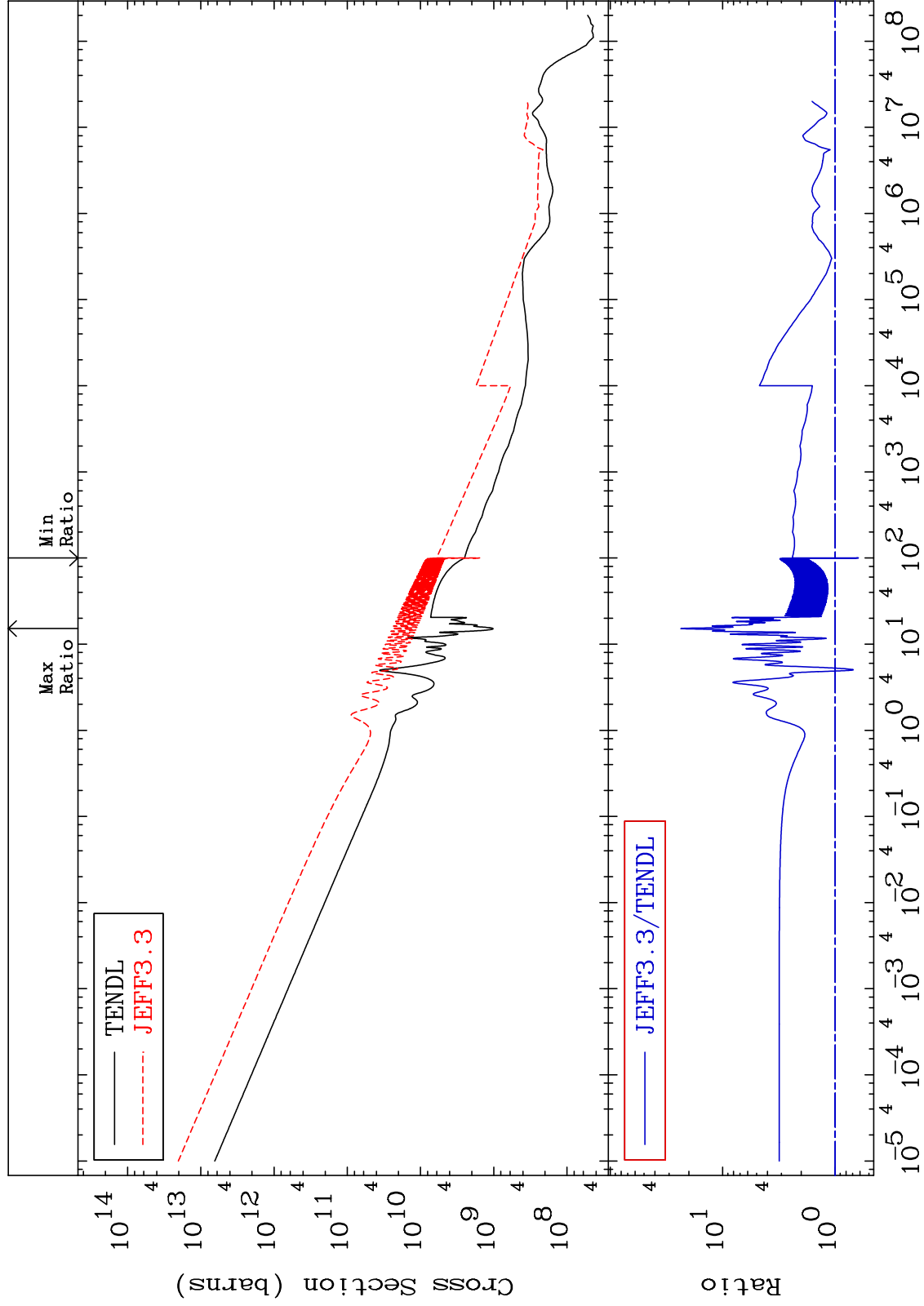
Incident Energy (eV)

93-Np-238

MAT 9349

Total kinematic kerma (high limit)
Cross Section

93-Np-238
-38.12 To 2273. %

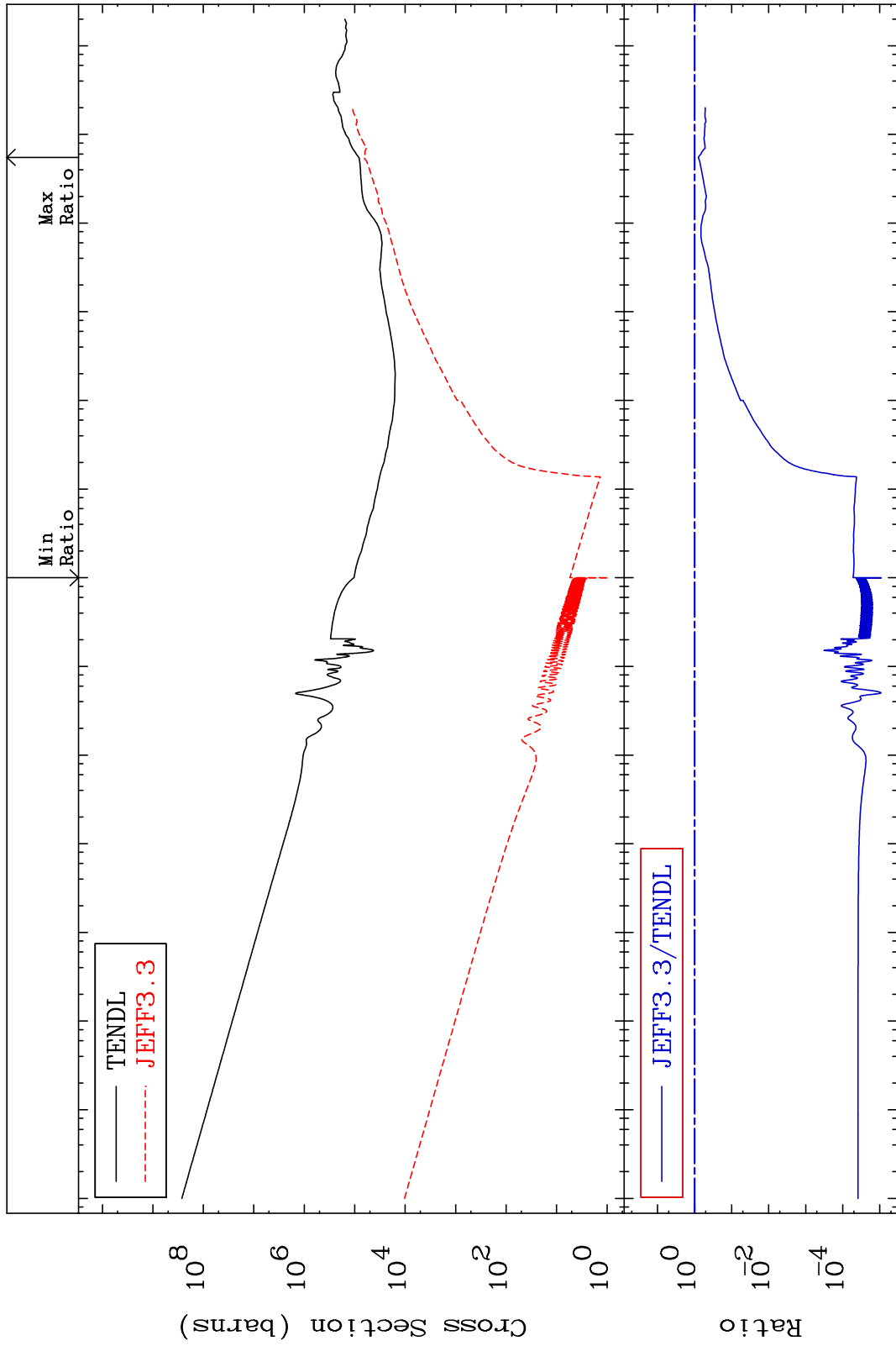


MAT 9349

Dpa total (eV-barns)

93-Np-238

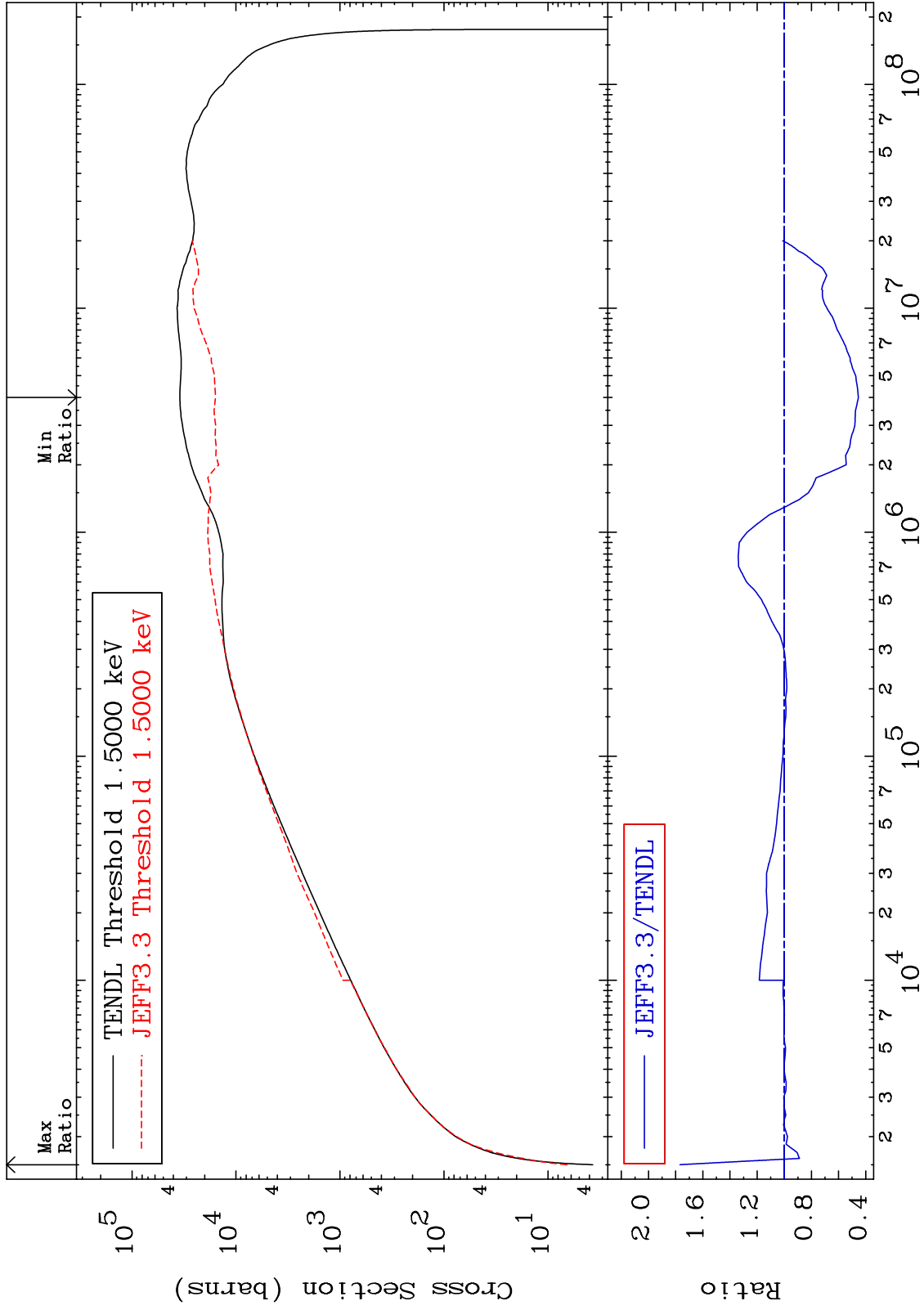
-100.0 To -20.67%



MAT 9349

Dpa elastic (mt2)
Cross Section

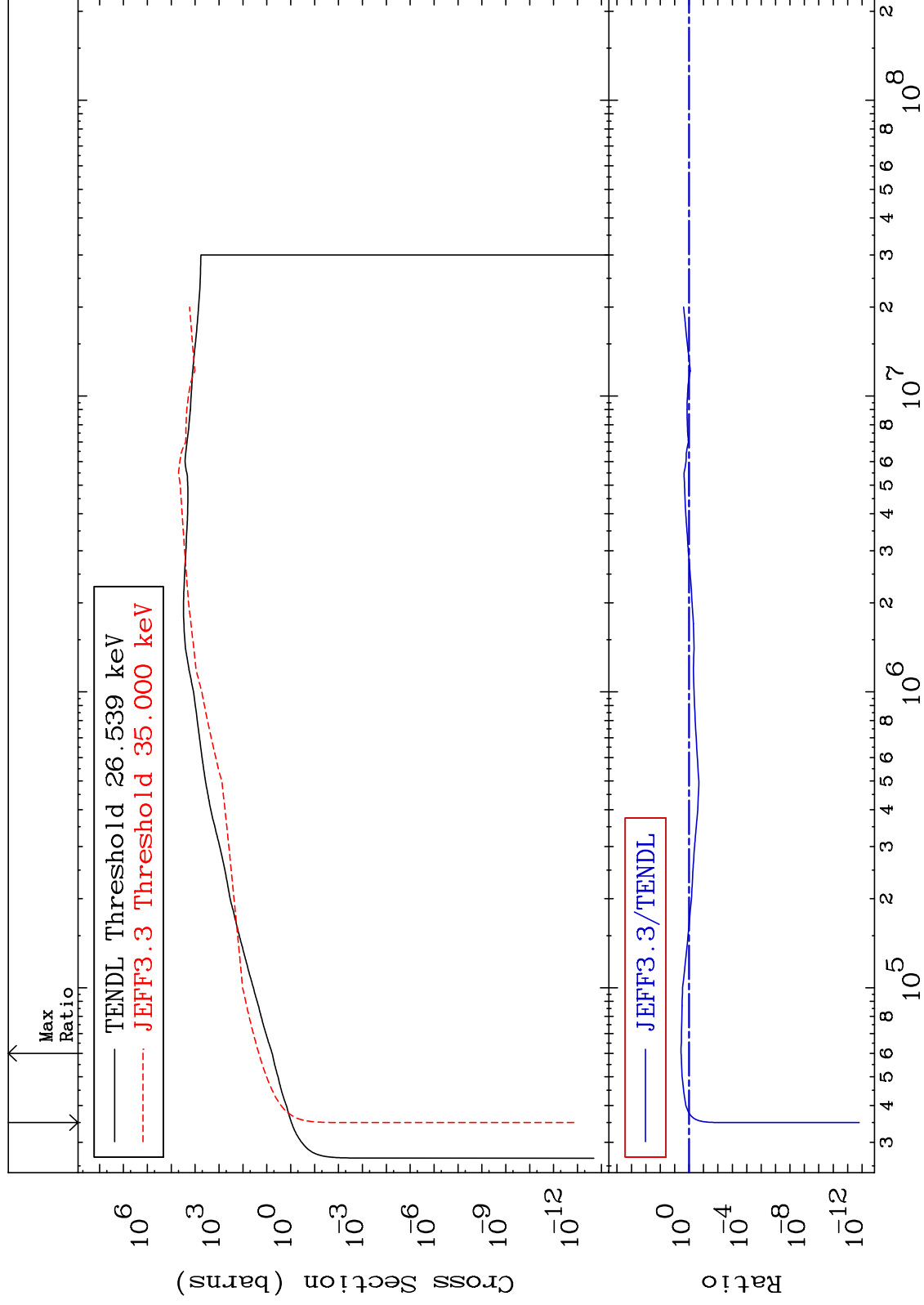
93-Np-238
-54.62 To 76.80 %



MAT 9349

Dpa inelastic (mt51-91)
Cross Section

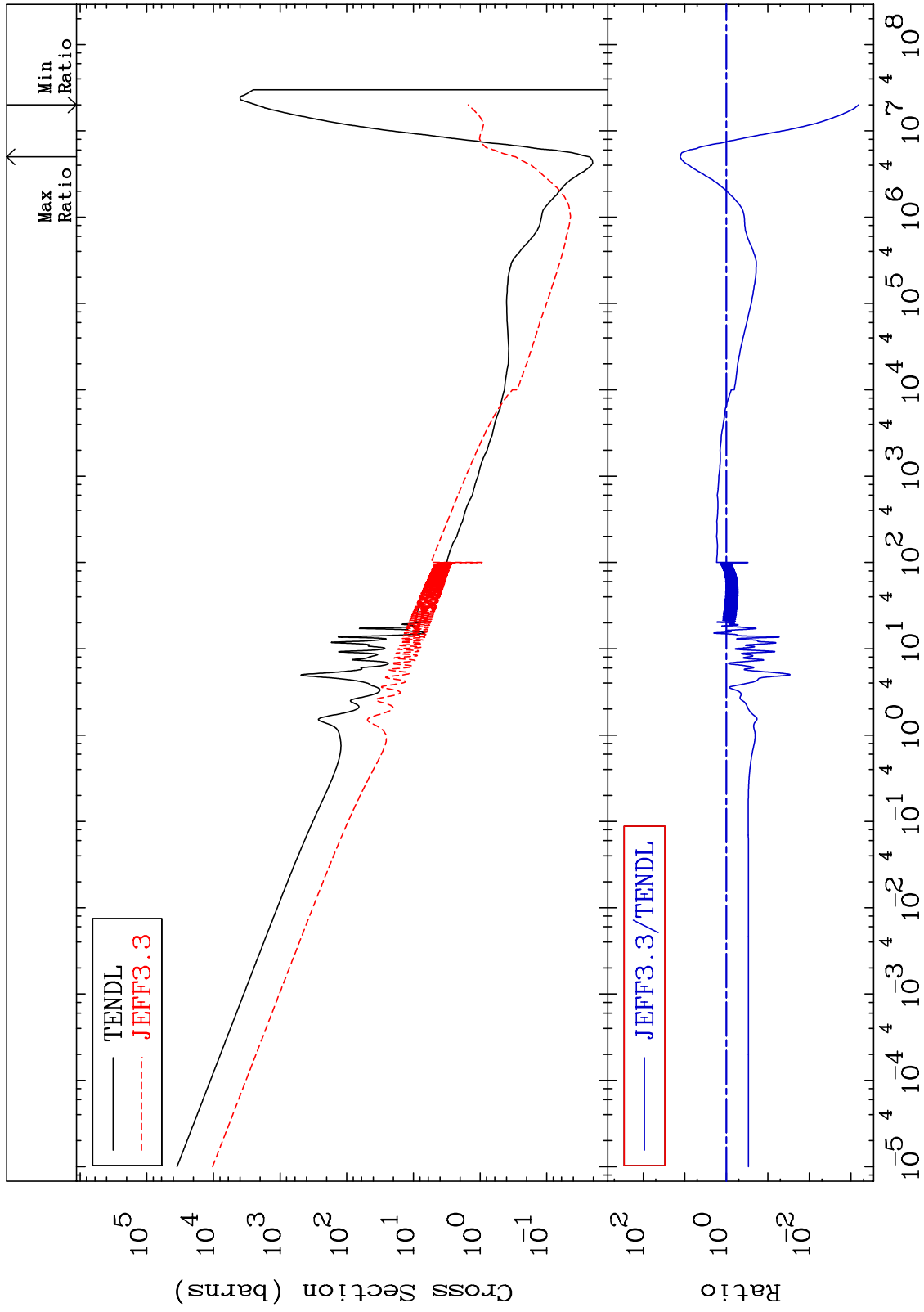
93-Np-238
-100.0 To 259.9 %



MAT 9349

Dpa disappearance (mt102 -120)
Cross Section

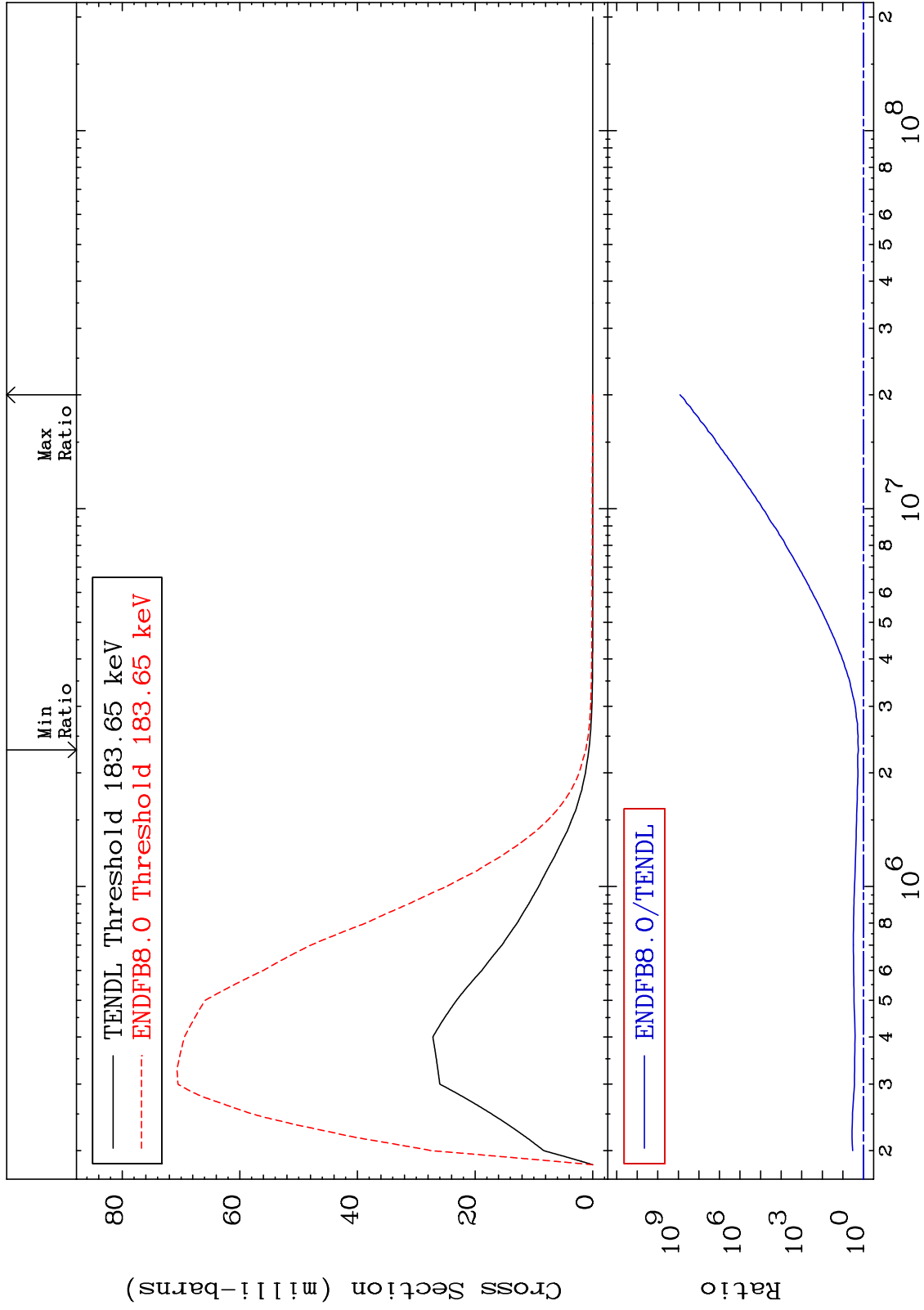
93-Np-238
-99.93 To 1203. %



MAT 9349

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

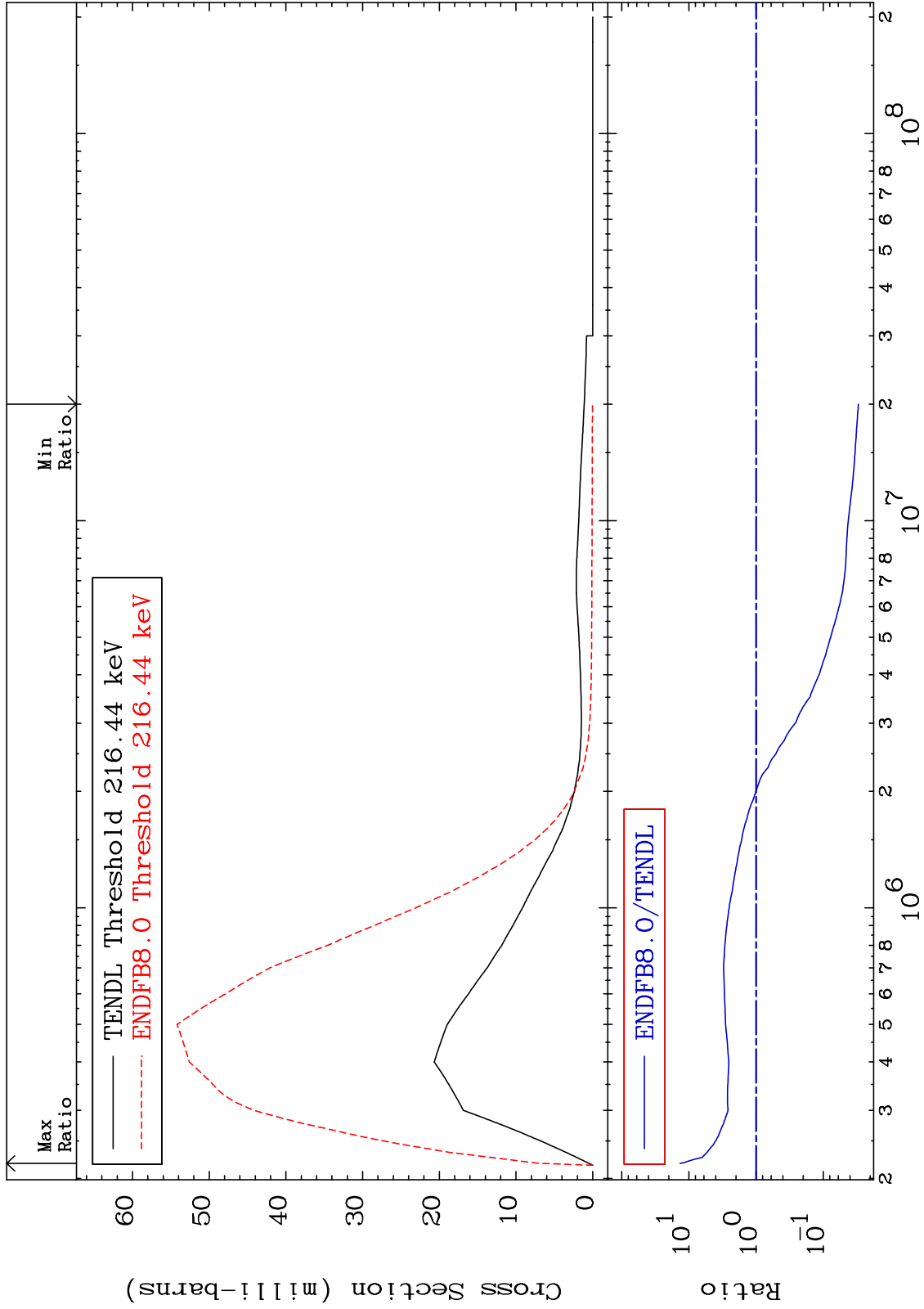
93-Np-238
74.57 To 9999. %



MAT 9349

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

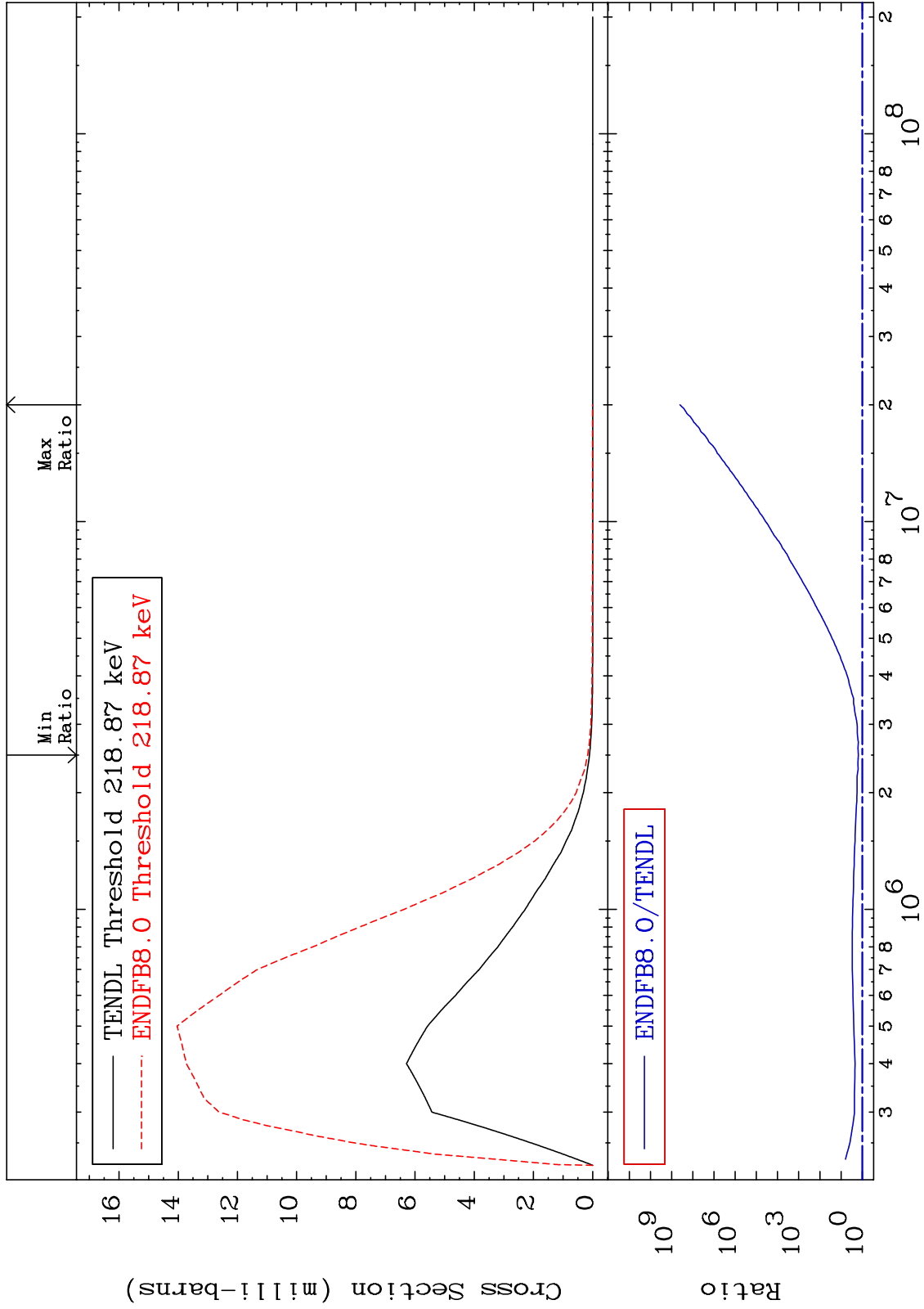
93-Np-238
-97.00 To 1258. %



MAT 9349

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

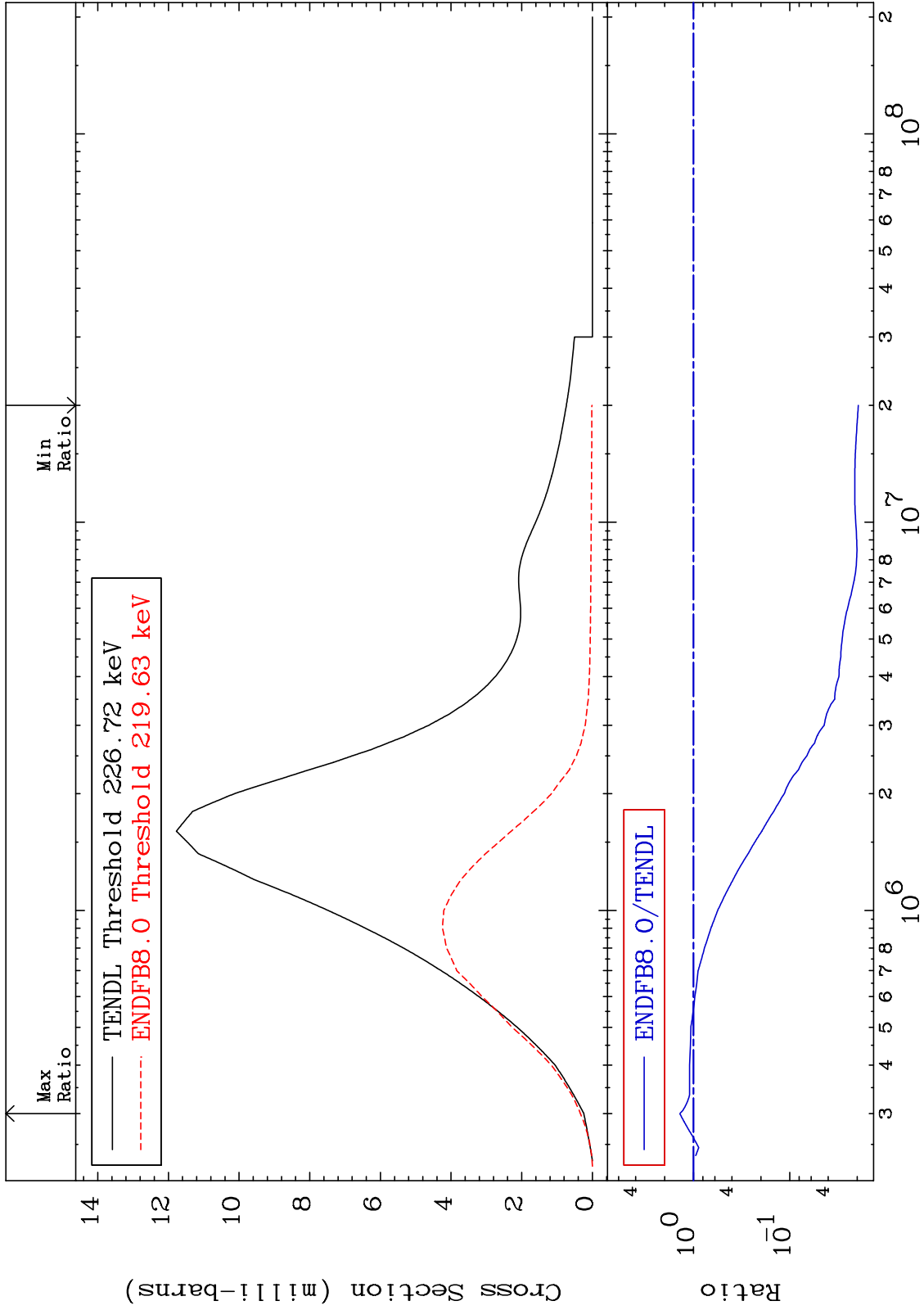
93-Np-238
51.19 To 9999. %



MAT 9349

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

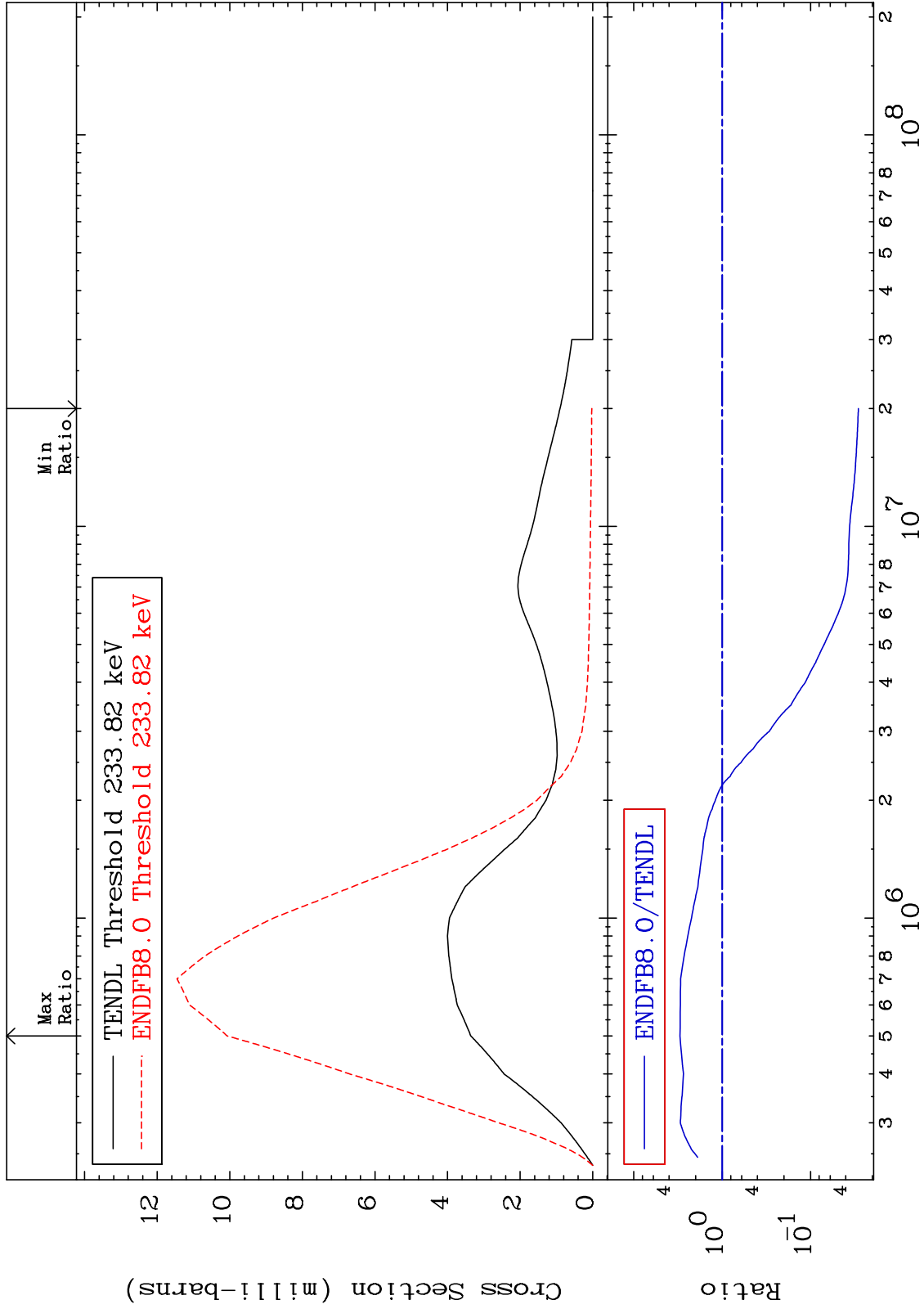
93-Np-238
-98.06 To 39.05 %



MAT 9349

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

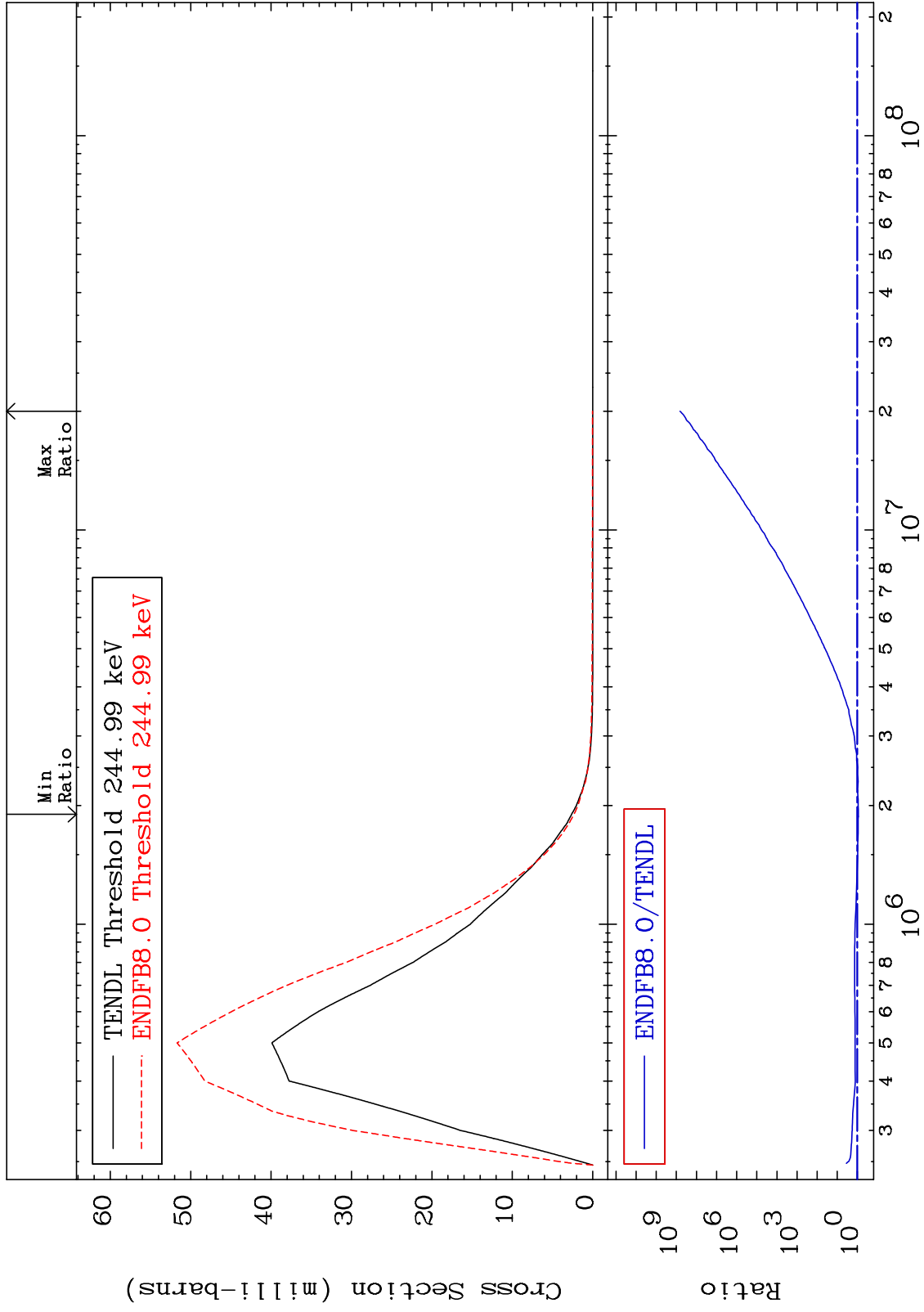
93-Np-238
-97.13 To 199.9 %



MAT 9349

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

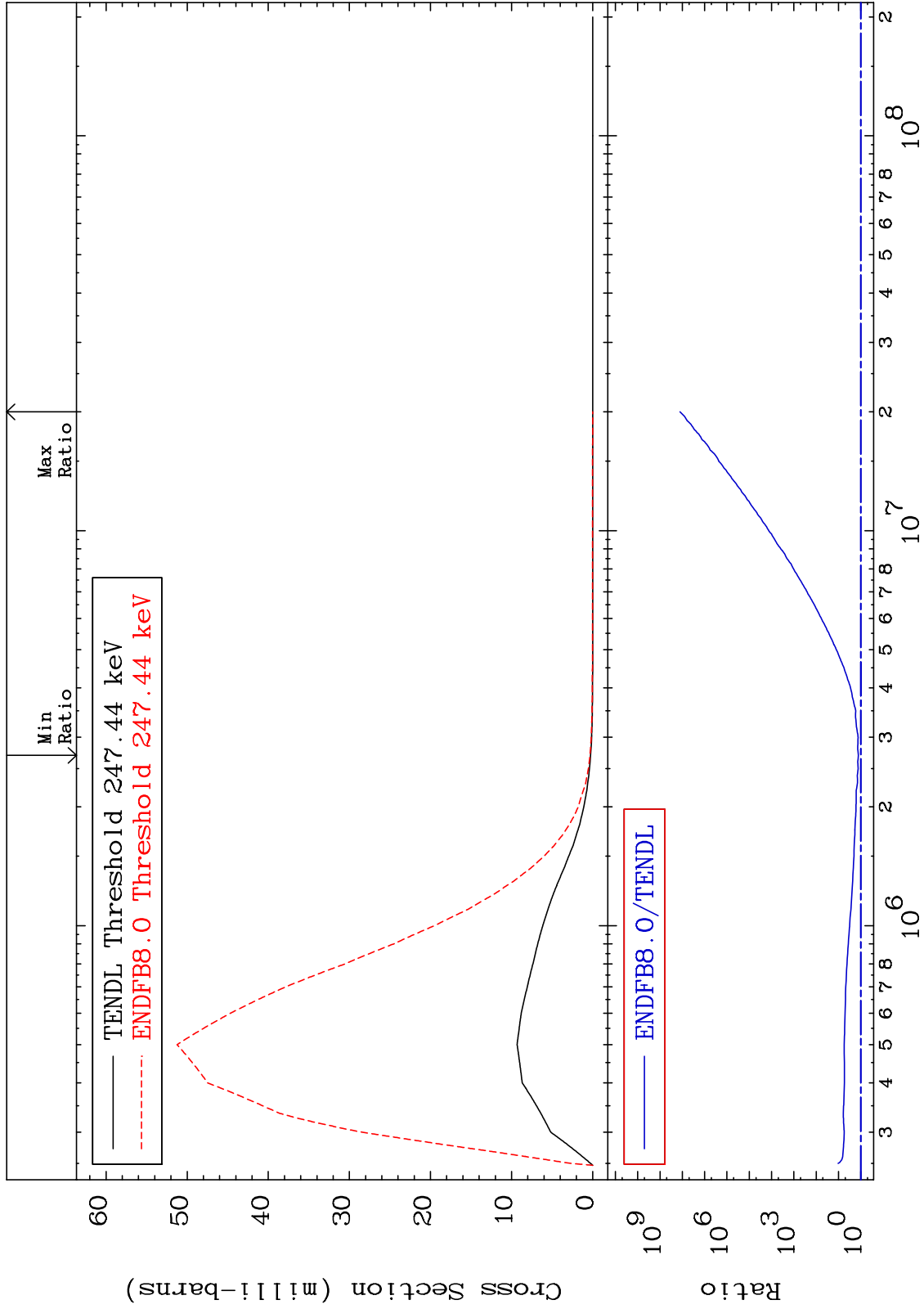
93-Np-238
-11.31 To 9999. %



MAT 9349

MT= 66 (n,n') Level
Cross Section

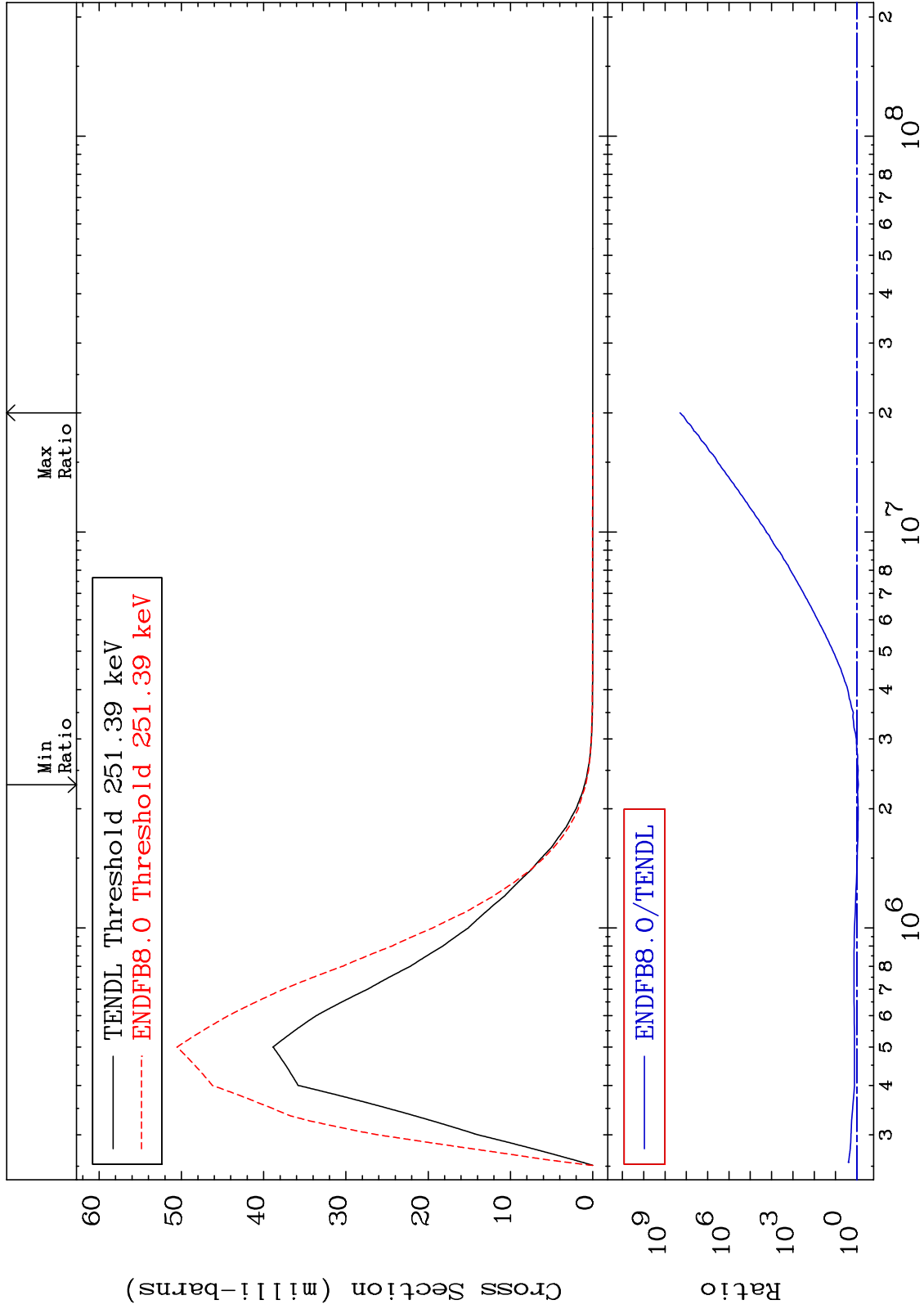
93-Np-238
27.79 To 9999. %



MAT 9349

MT= 67 (n,n') Level
Cross Section

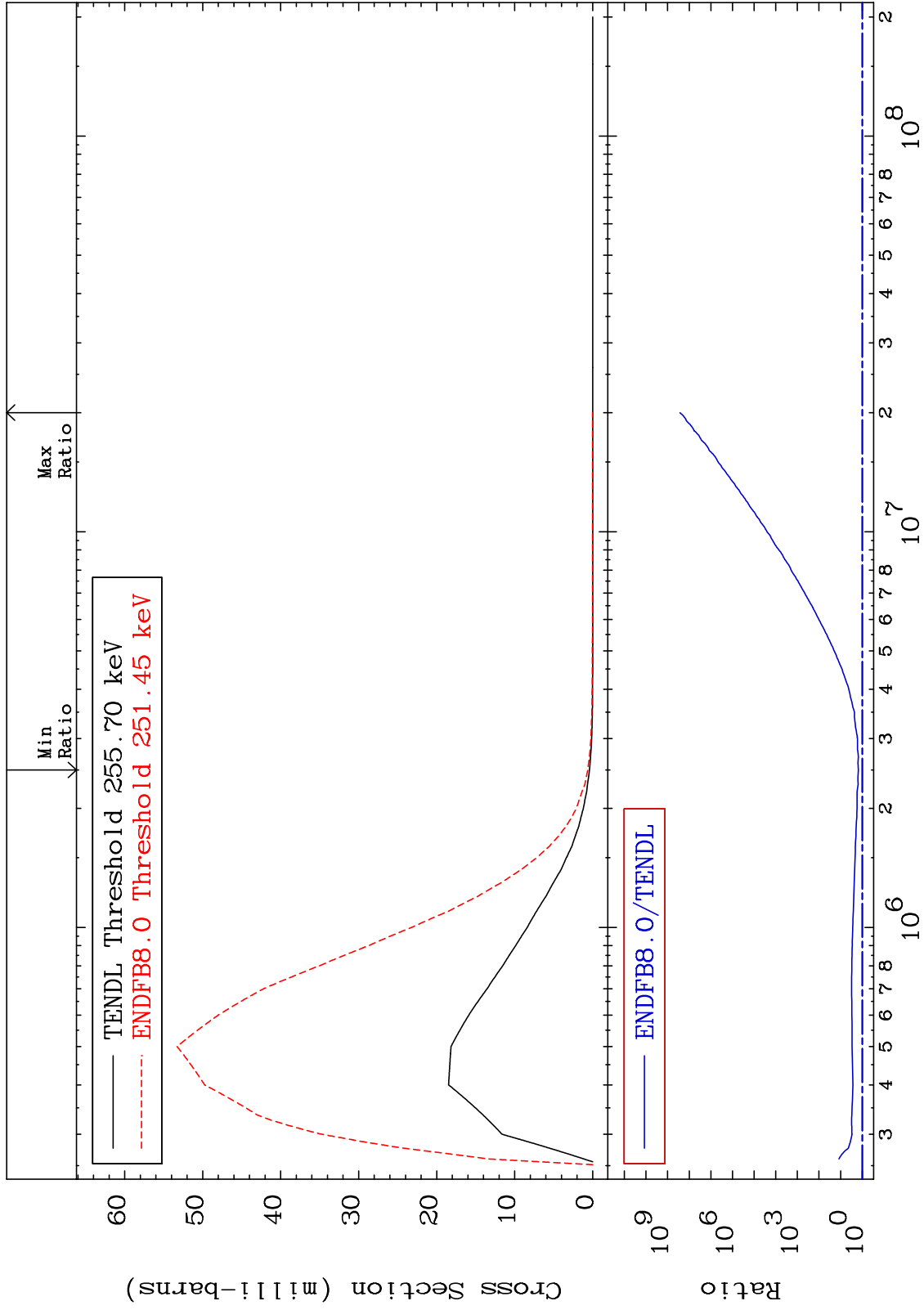
93-Np-238
-15.63 To 9999. %



MAT 9349

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

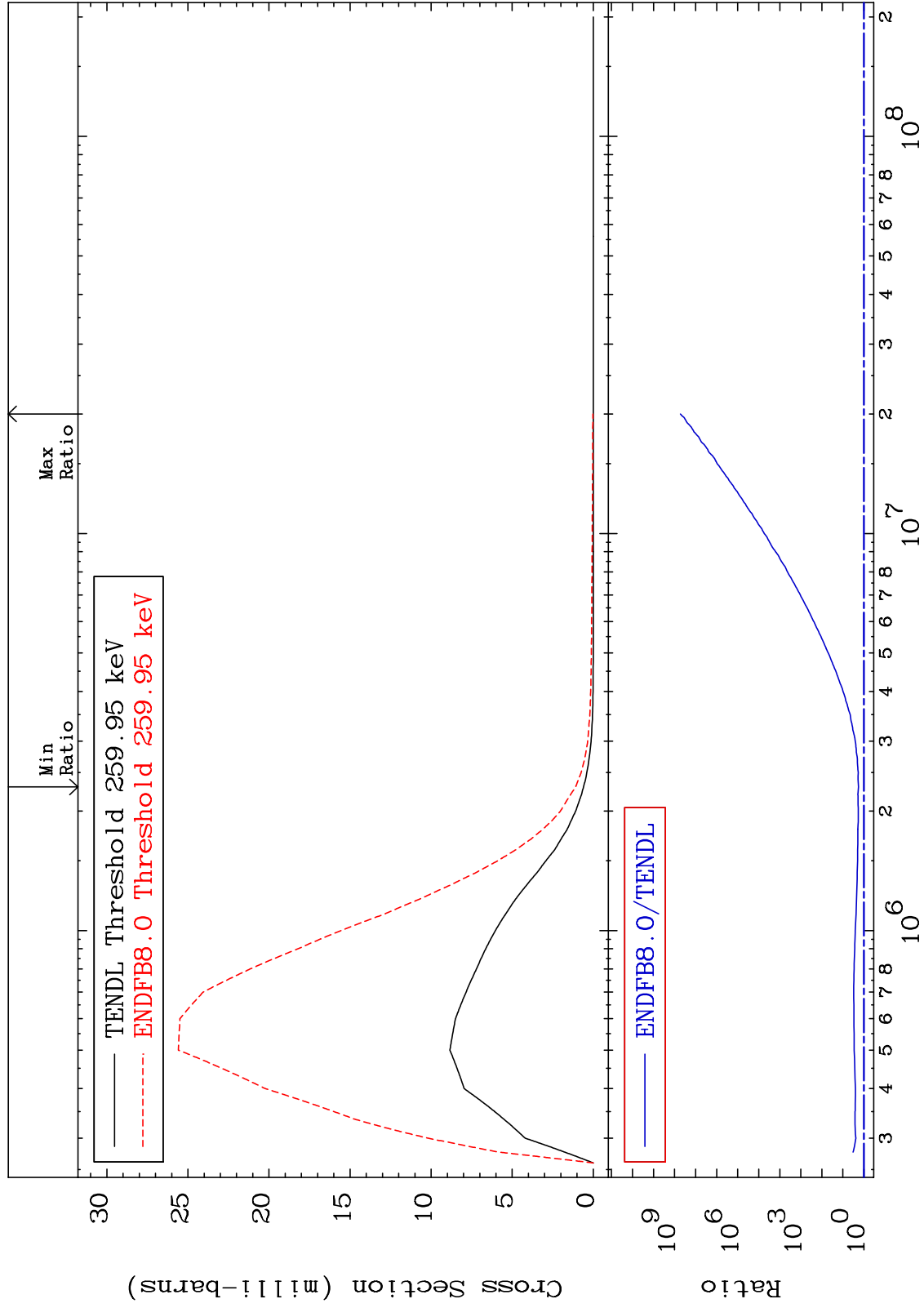
93-Np-238
50.37 To 9999. %



MAT 9349

MT= 69 (n,n') Level
Cross Section

93-Np-238
80.73 To 9999. %



30

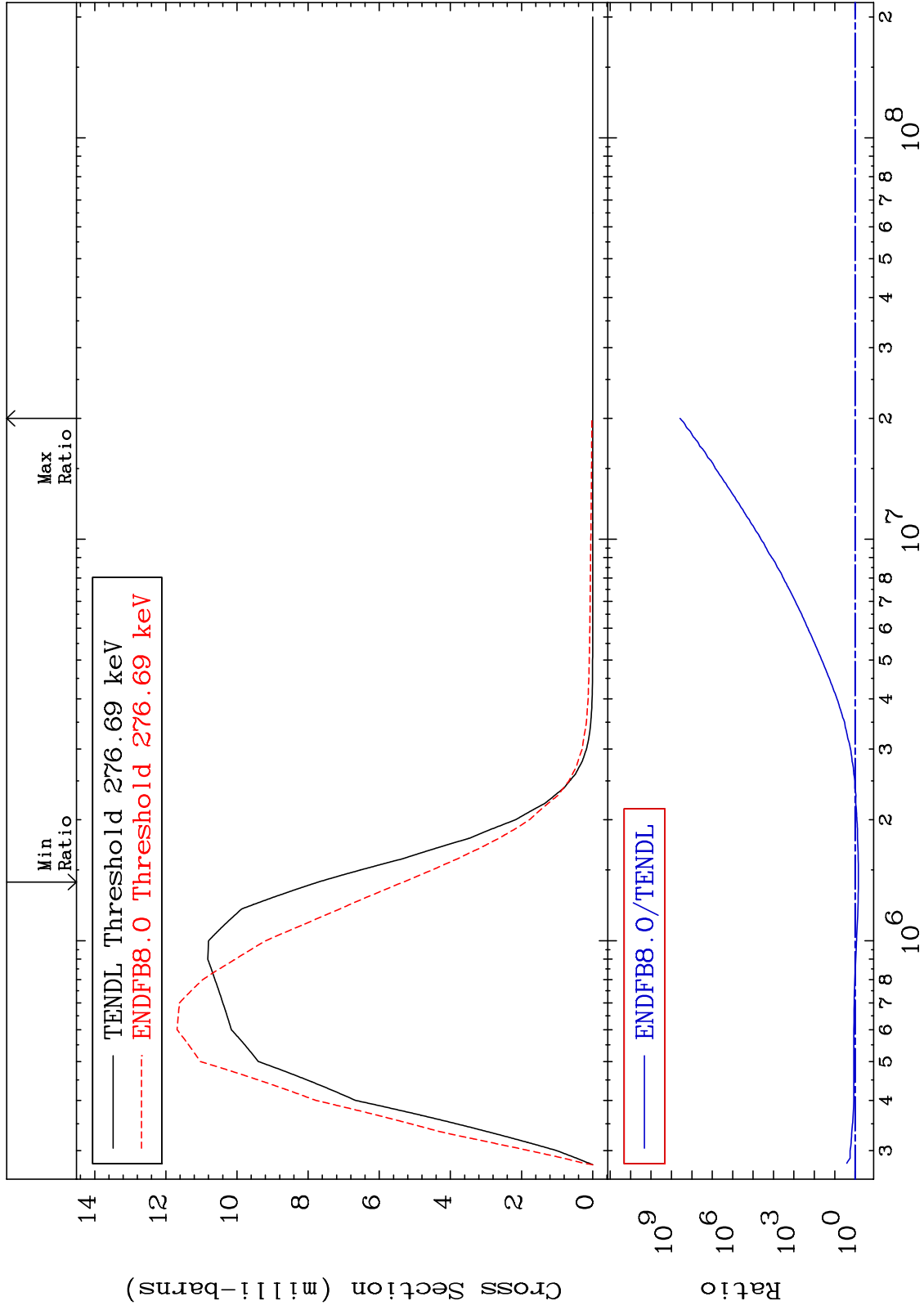
Incident Energy (eV)

93-Np-238

MAT 9349

MT= 70 (n,n') Level
Cross Section

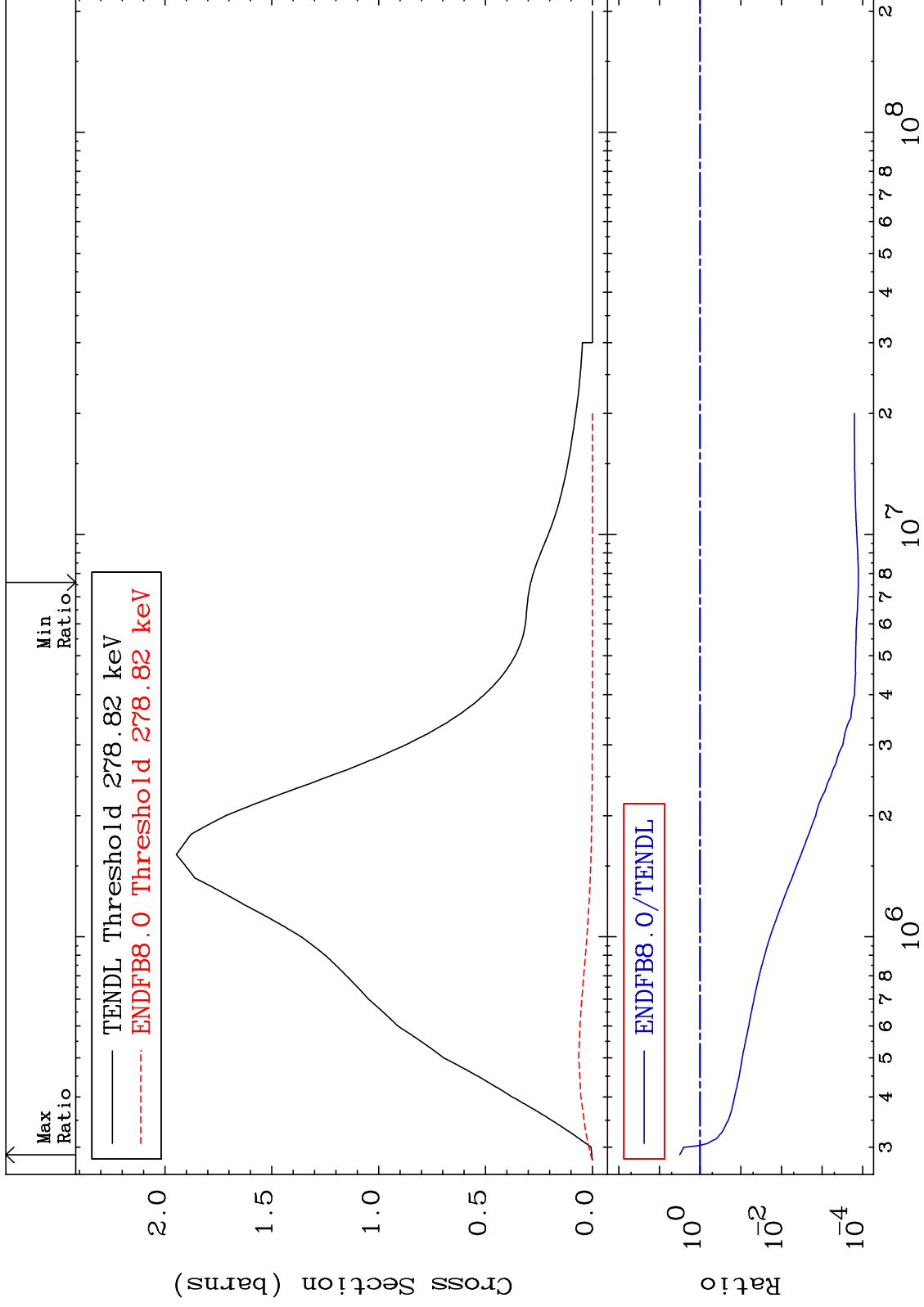
93-Np-238
-31.05 To 9999. %



MAT 9349

MT= 71 (n,n') Level
Cross Section

93-Np-238
-99.99 To 215.6 %



32

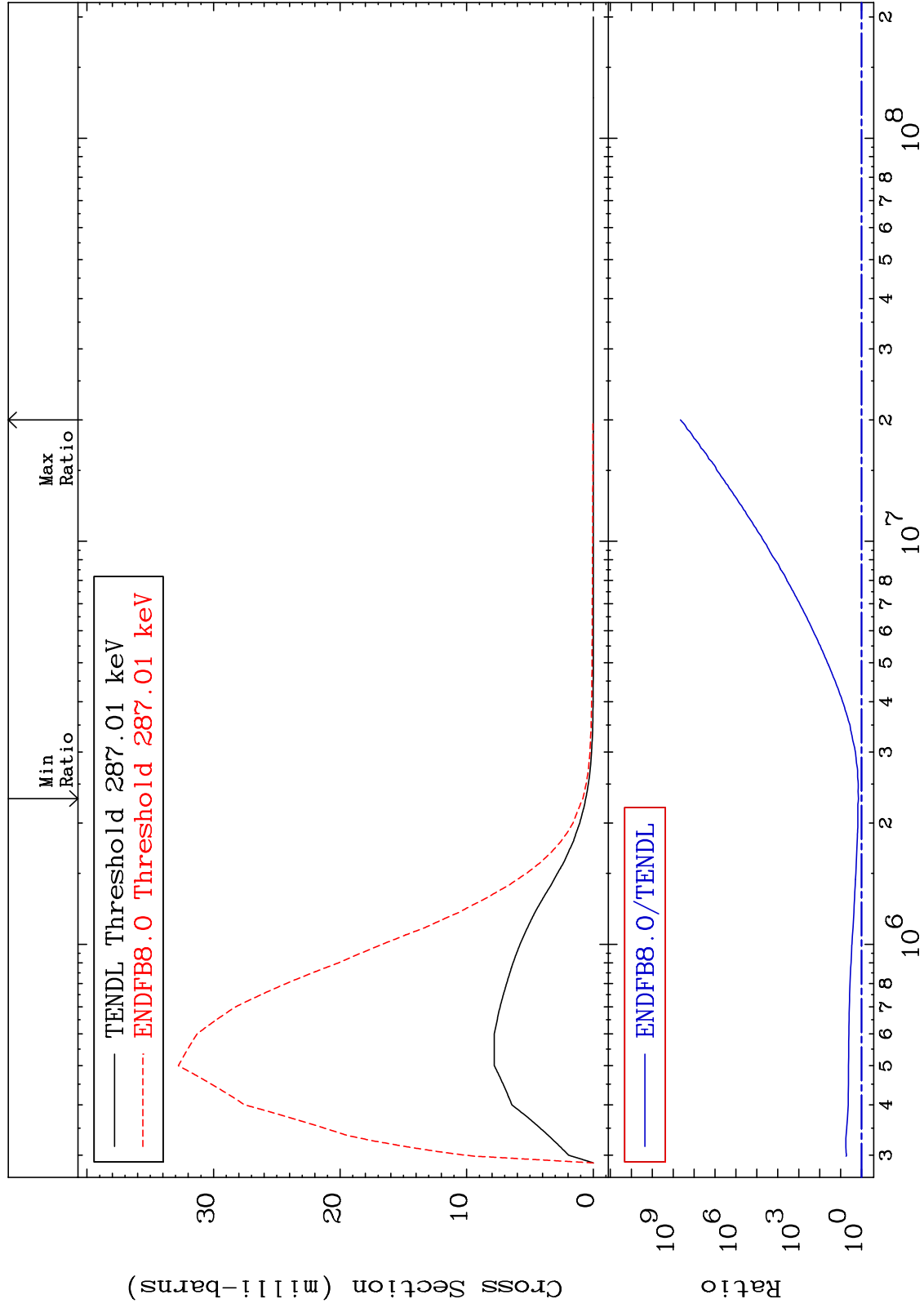
Incident Energy (eV)

93-Np-238

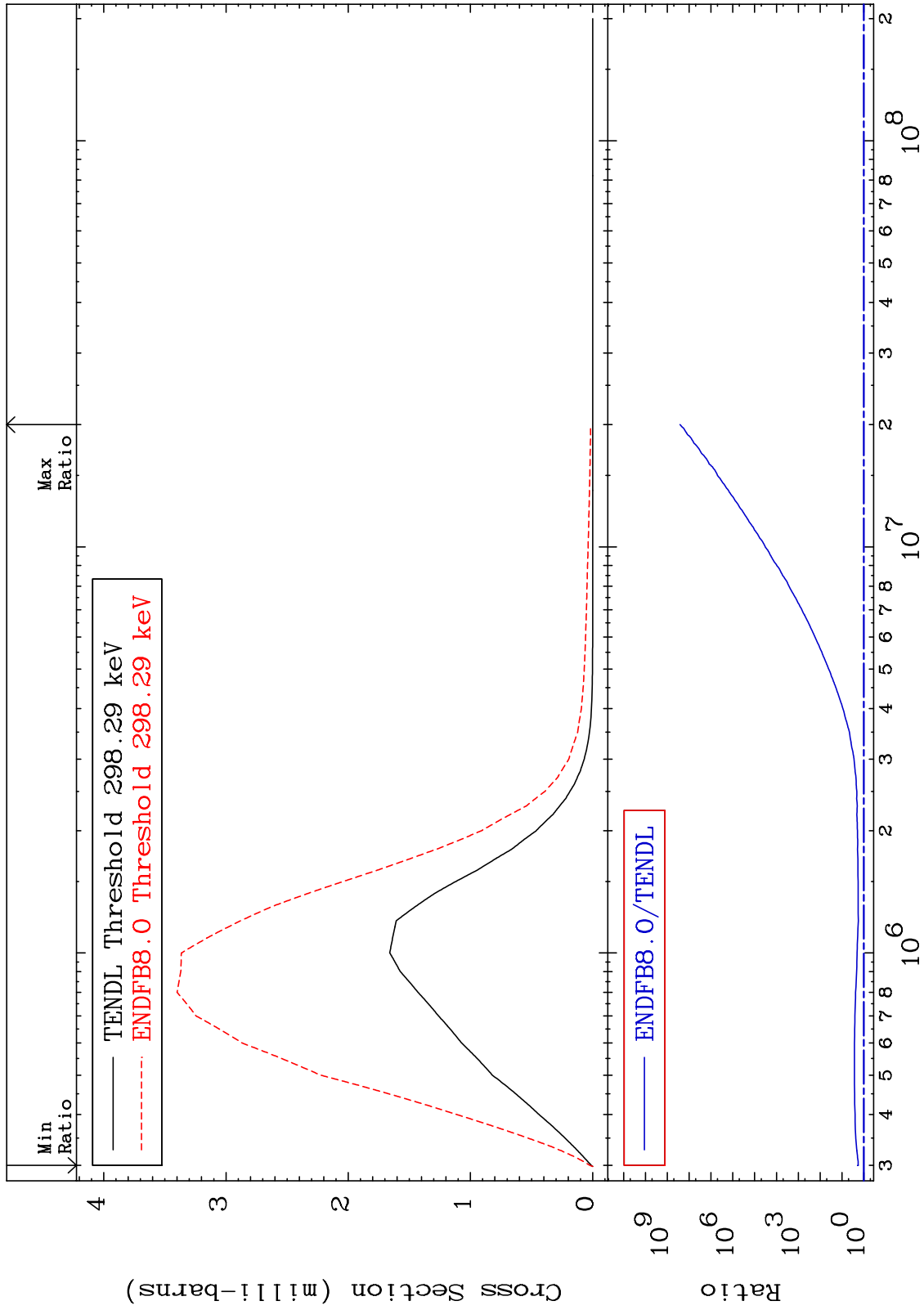
MAT 9349

MT= 72 (n,n') Level
Cross Section

93-Np-238
38.74 To 9999. %



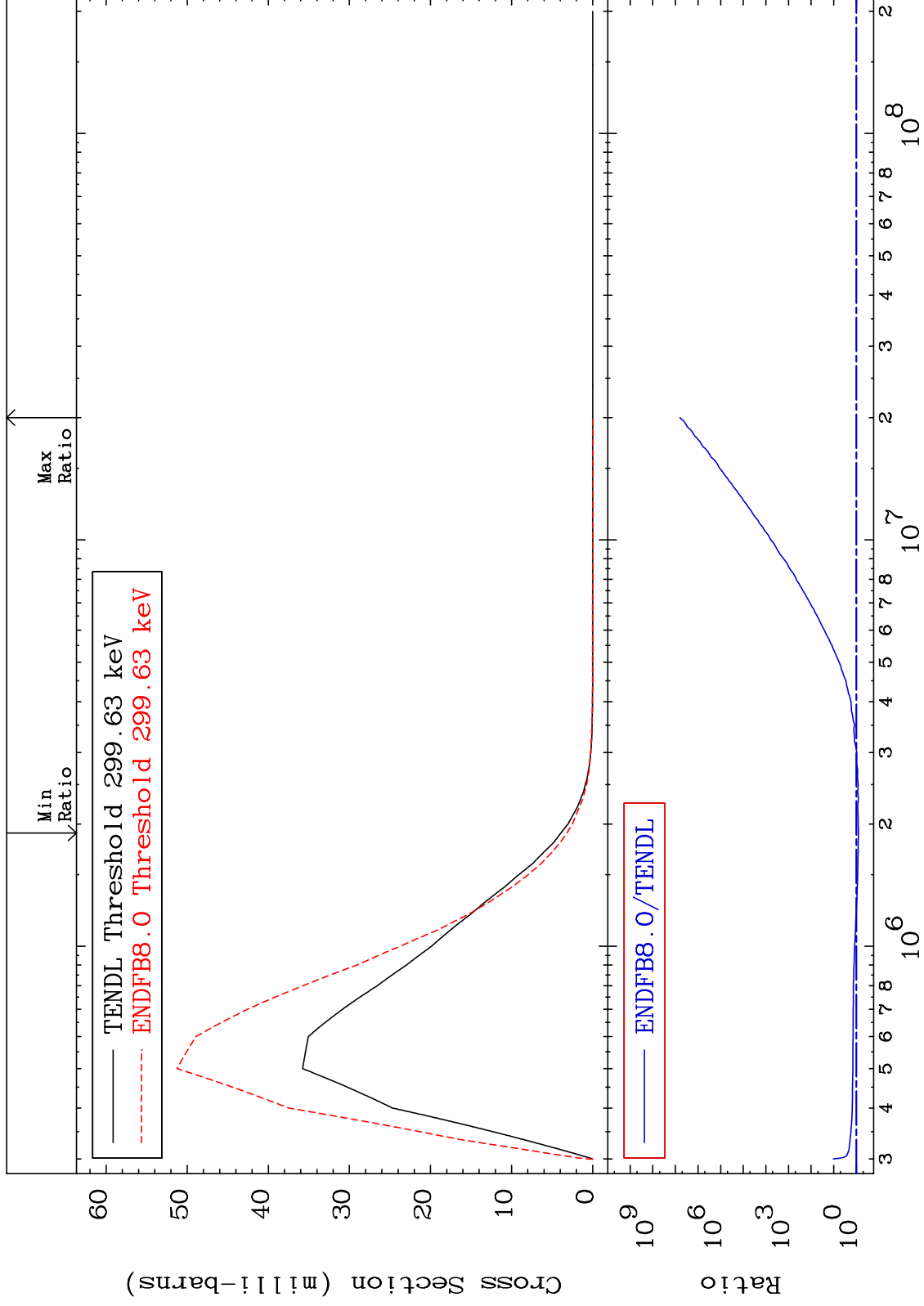
MAT 9349 MT= 73 (n,n') Level Cross Section 93-Np-238
 76.84 To 9999. %



MAT 9349

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

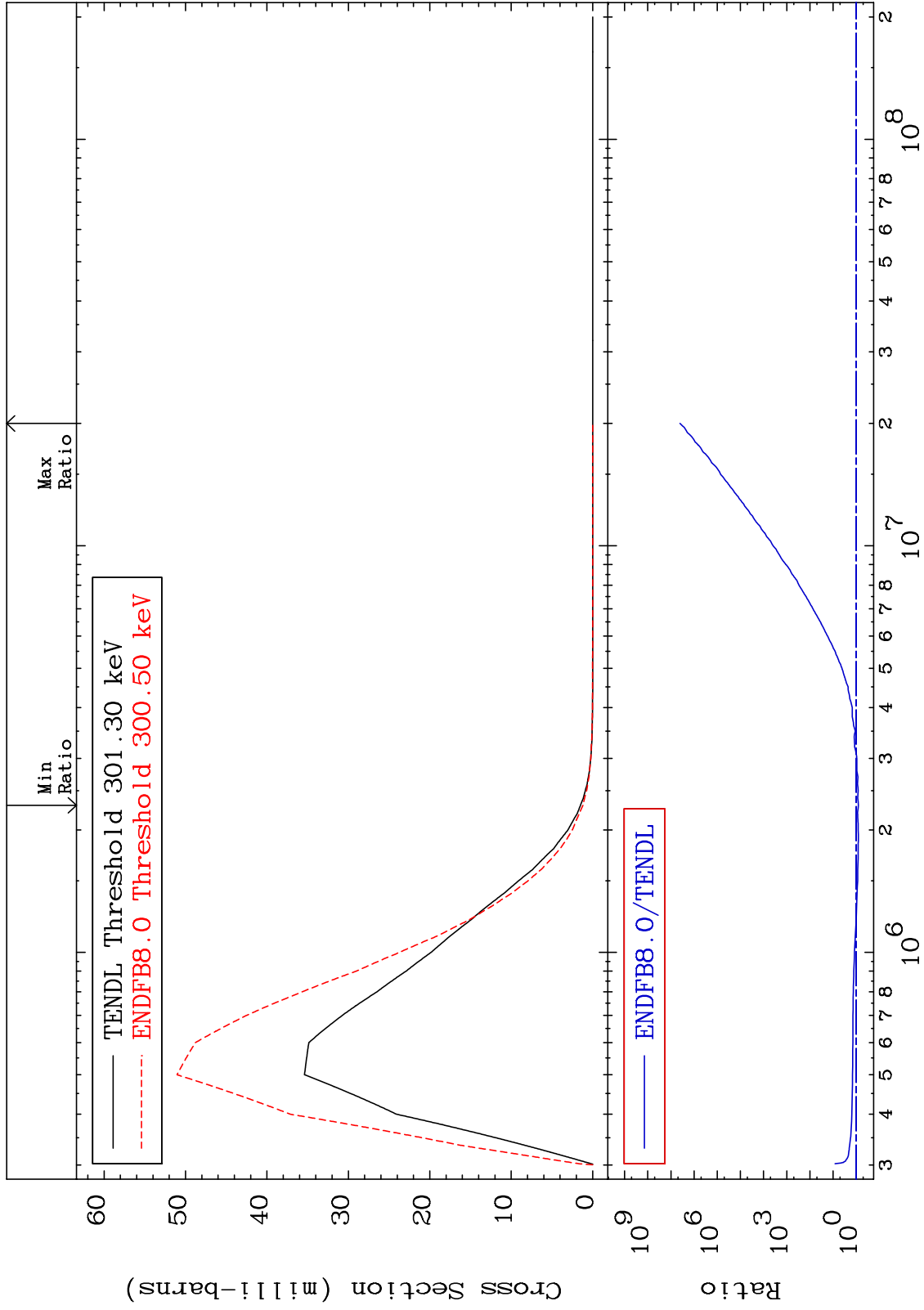
93-Np-238
-18.94 To 9999. %



MAT 9349

MT= 75 (n,n') Level
Cross Section

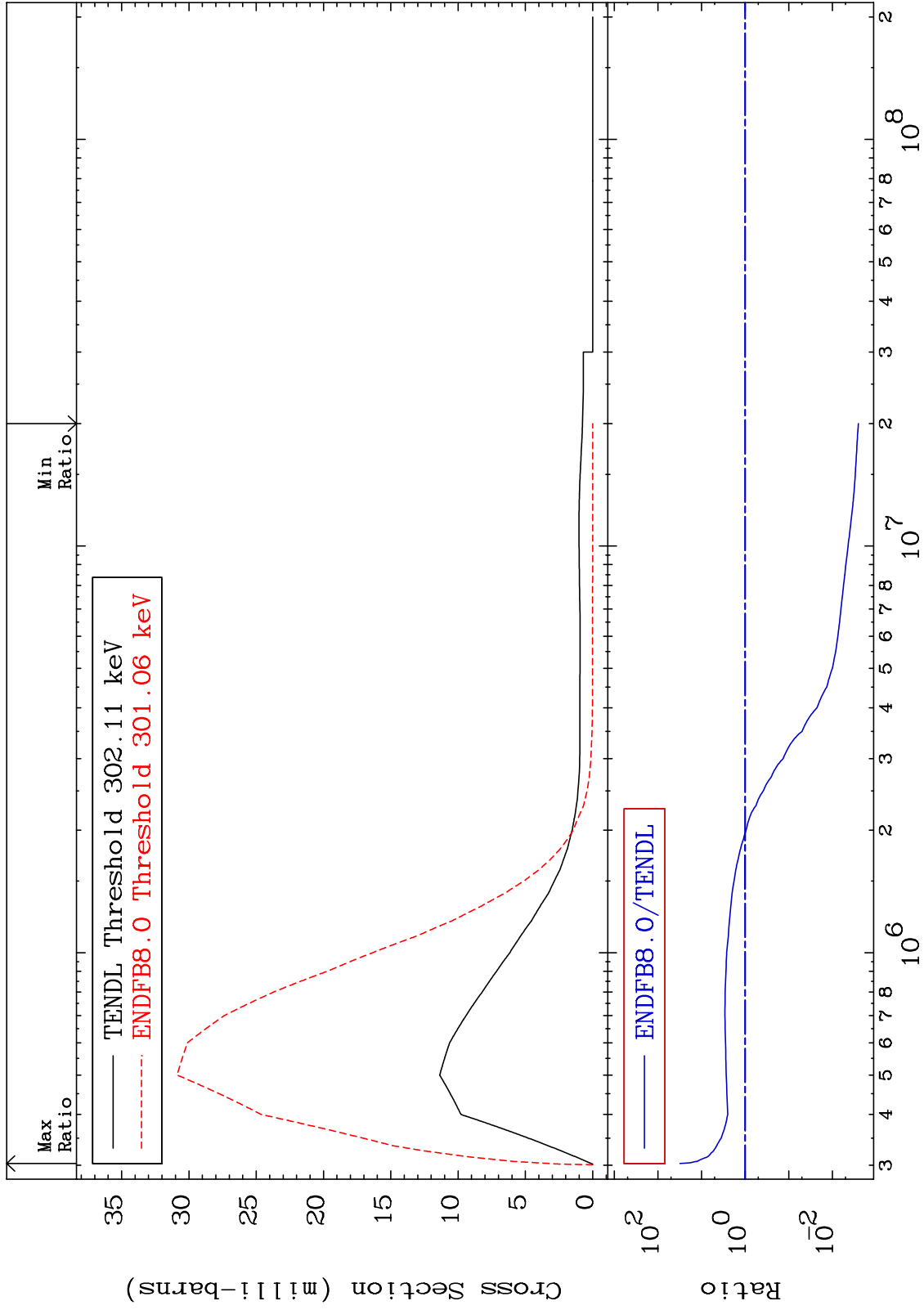
93-Np-238
-19.35 To 9999. %



MAT 9349

MT= 76 (n,n') Level
Cross Section

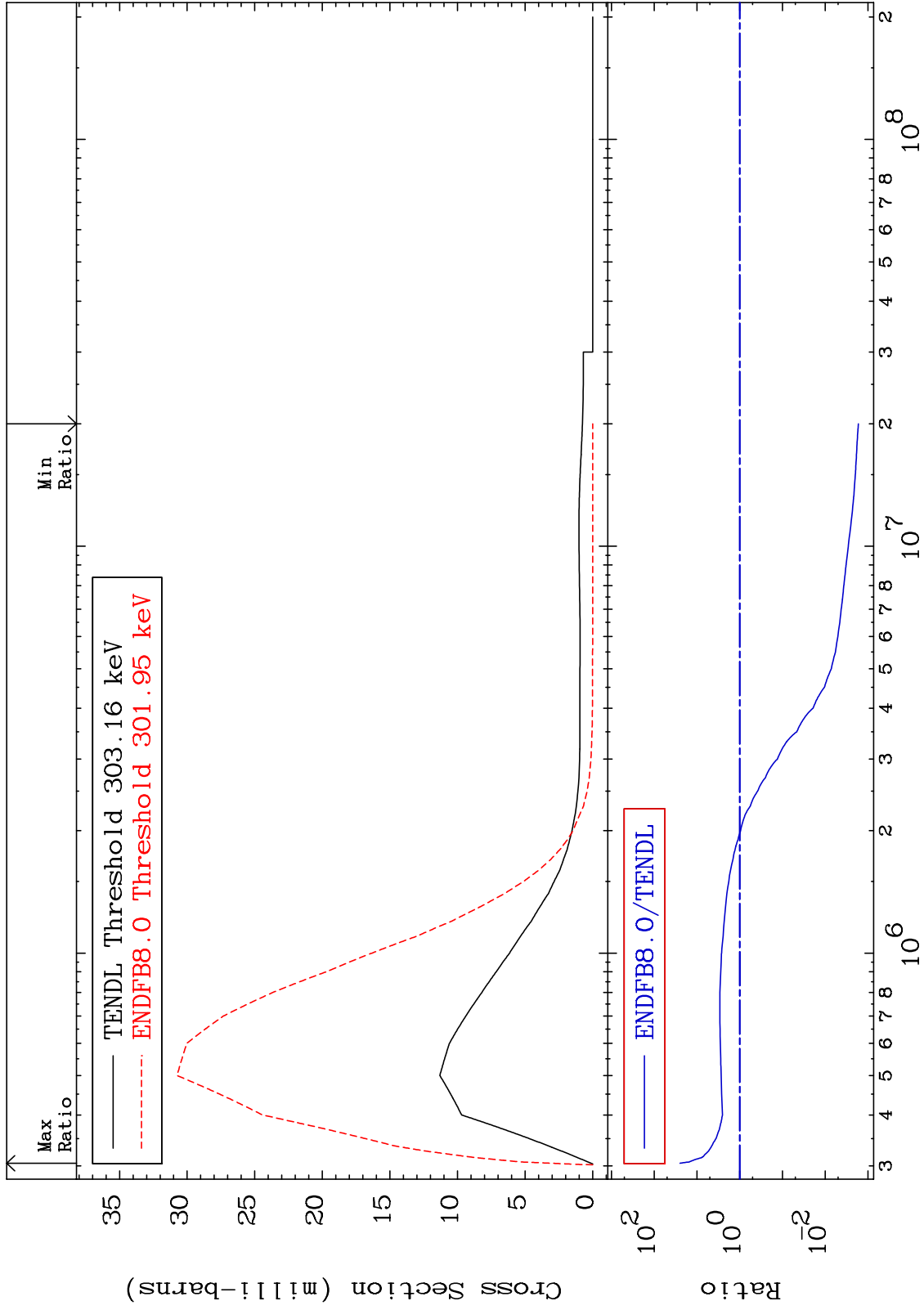
93-Np-238
-99.75 To 3020. %



MAT 9349

MT= 77 (n,n') Level
Cross Section

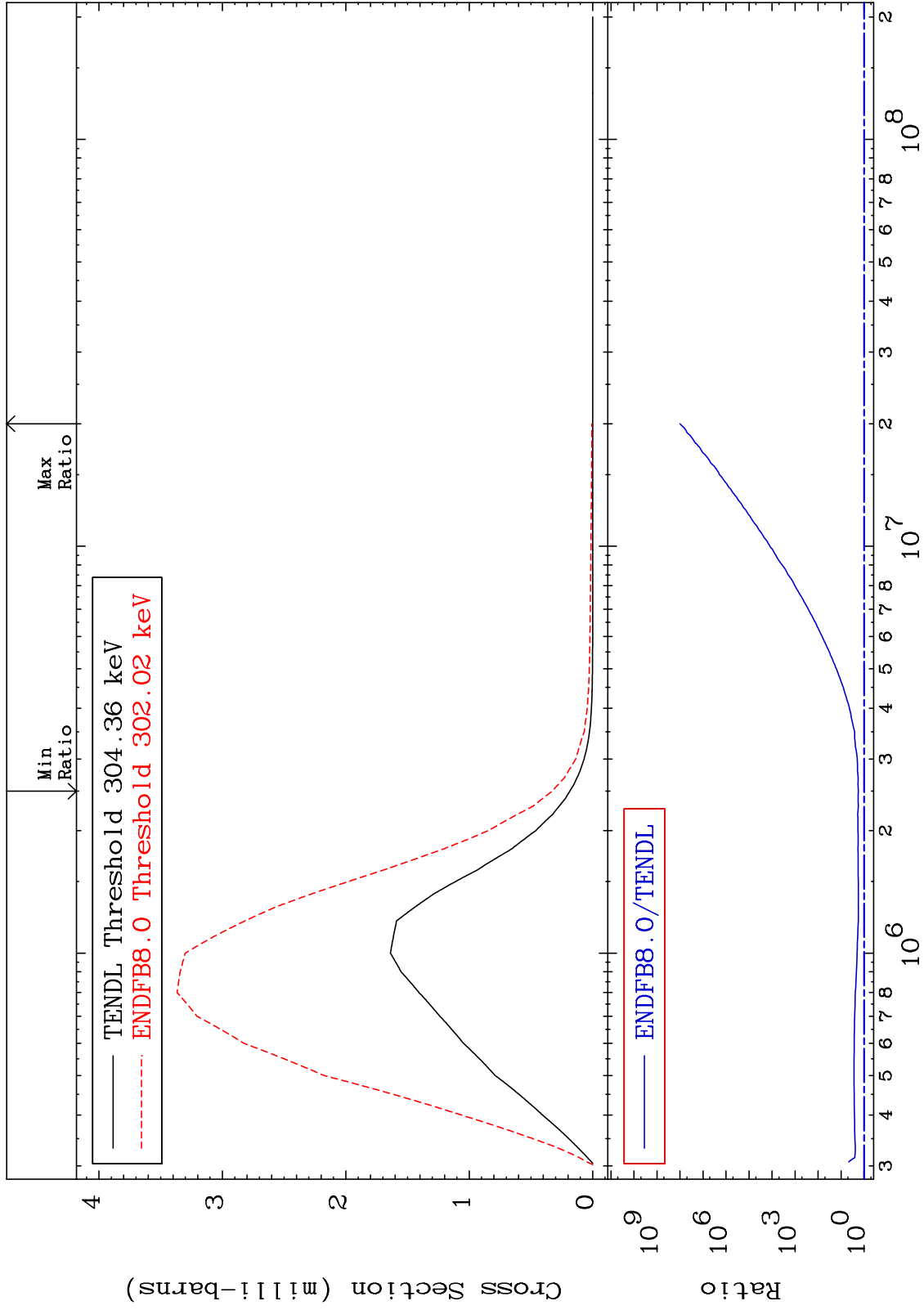
93-Np-238
-99.83 To 2381. %



MAT 9349

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

93-Np-238
76.45 To 9999. %



39

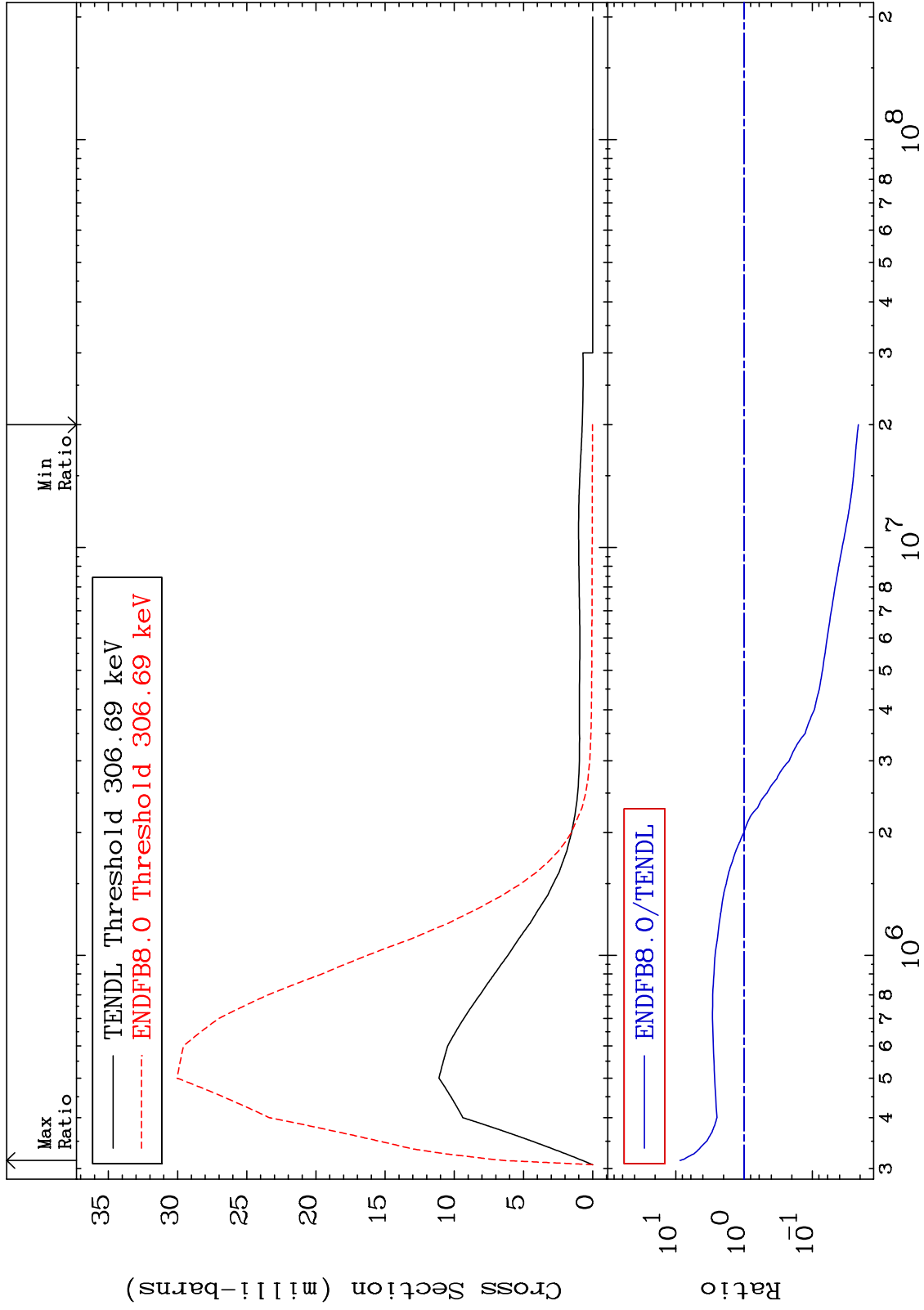
Incident Energy (eV)

93-Np-238

MAT 9349

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

93-Np-238
-97.88 To 765.3 %



40

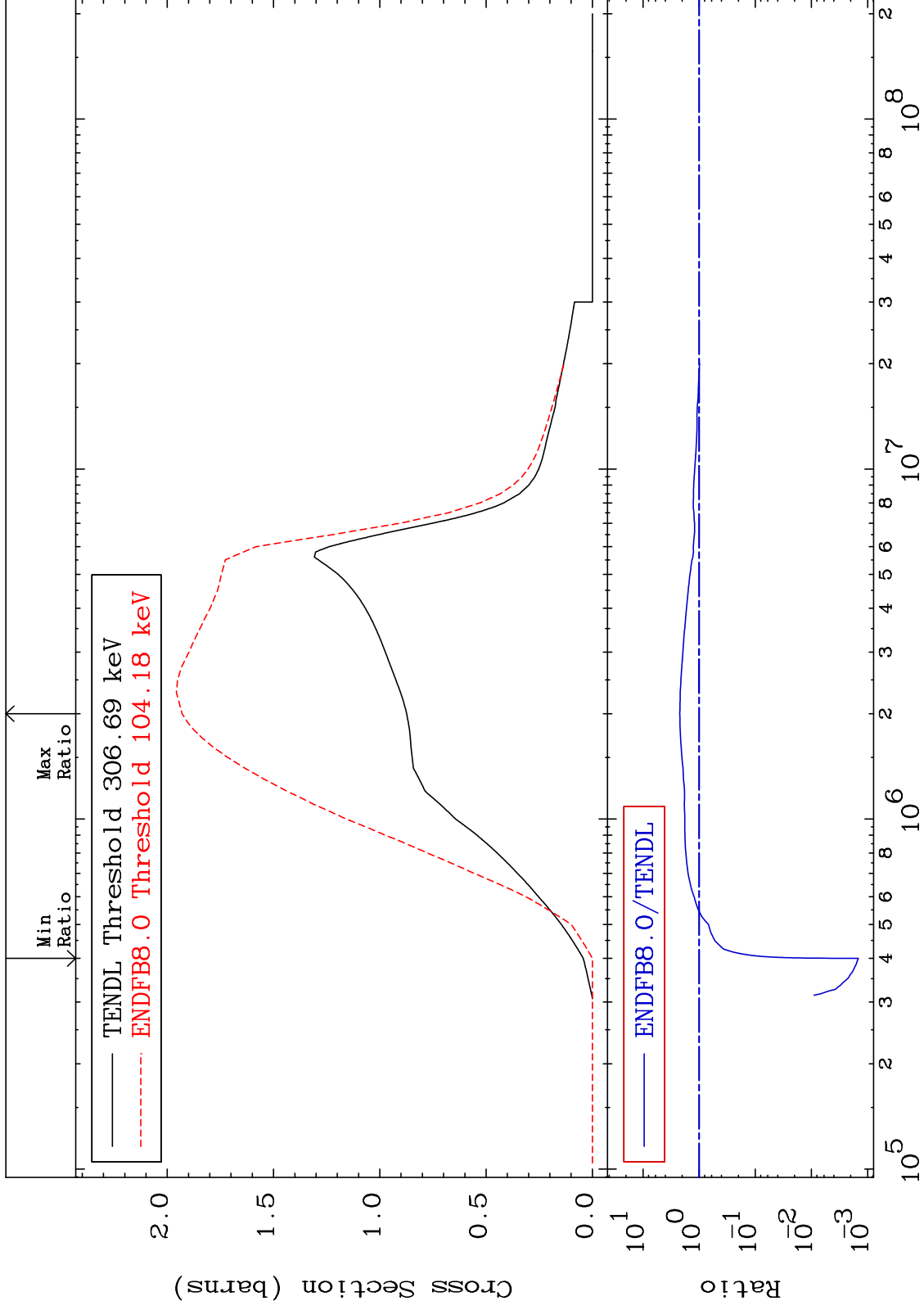
Incident Energy (eV)

93-Np-238

MAT 9349

(n, n') Continuum
Cross Section

93-Np-238
-99.85 To 121.0 %



41

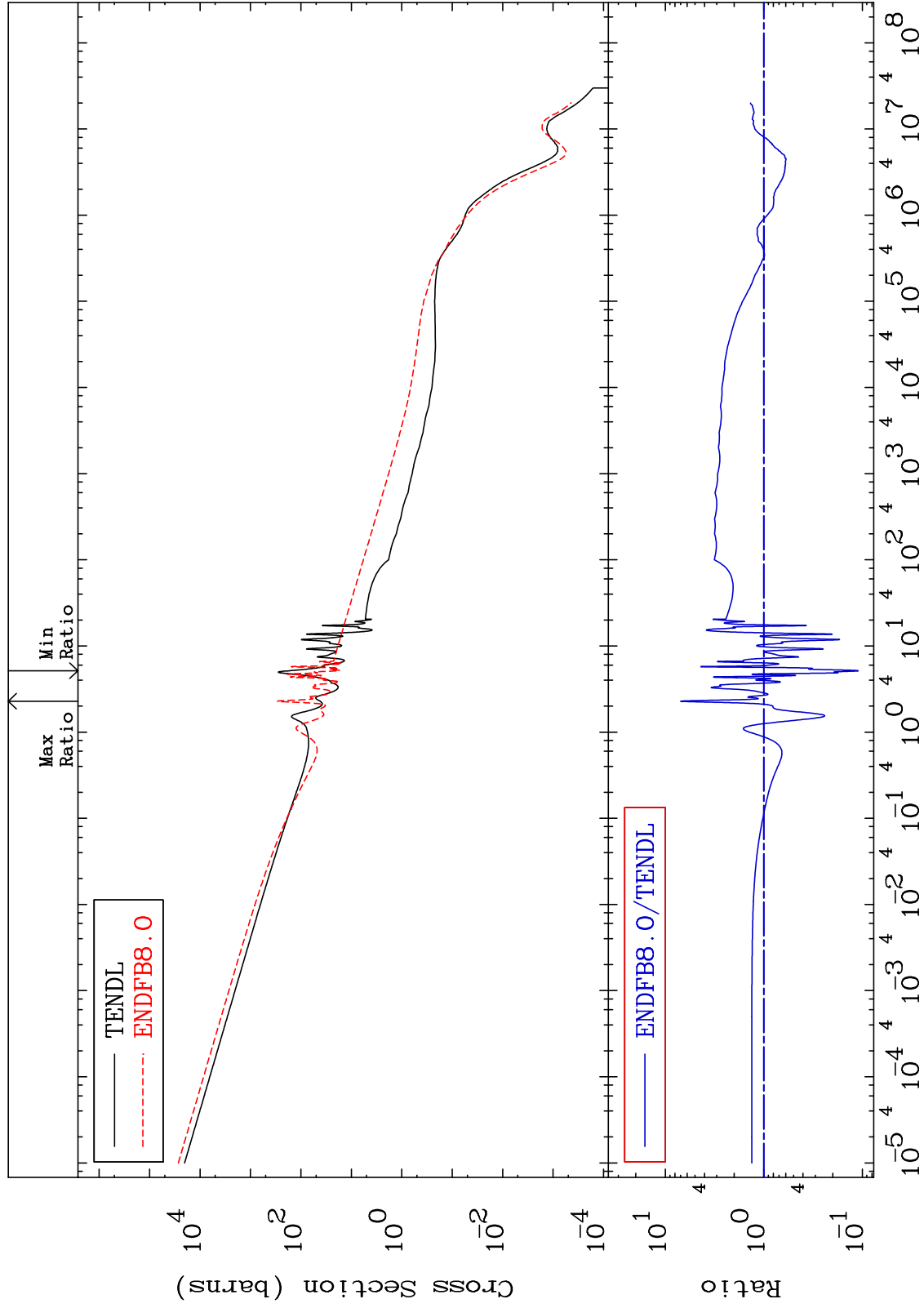
Incident Energy (eV)

93-Np-238

MAT 9349

(n, γ)
Cross Section

93-Np-238
-89.06 To 602.4 %



42

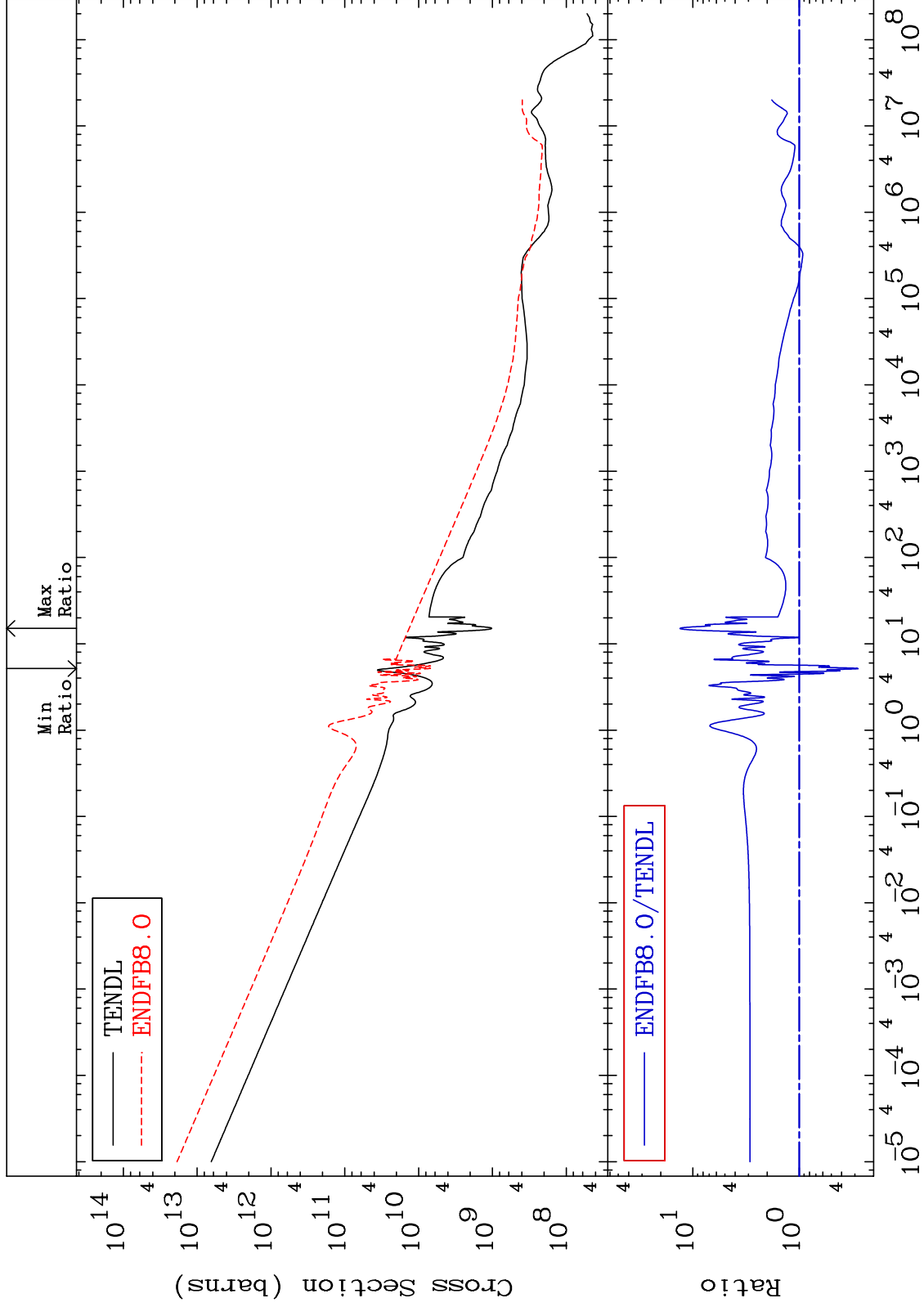
Incident Energy (eV)

93-Np-238

MAT 9349

Kerma total (eV-barns)
Cross Section

93-Np-238
-72.16 To 1217. %



43

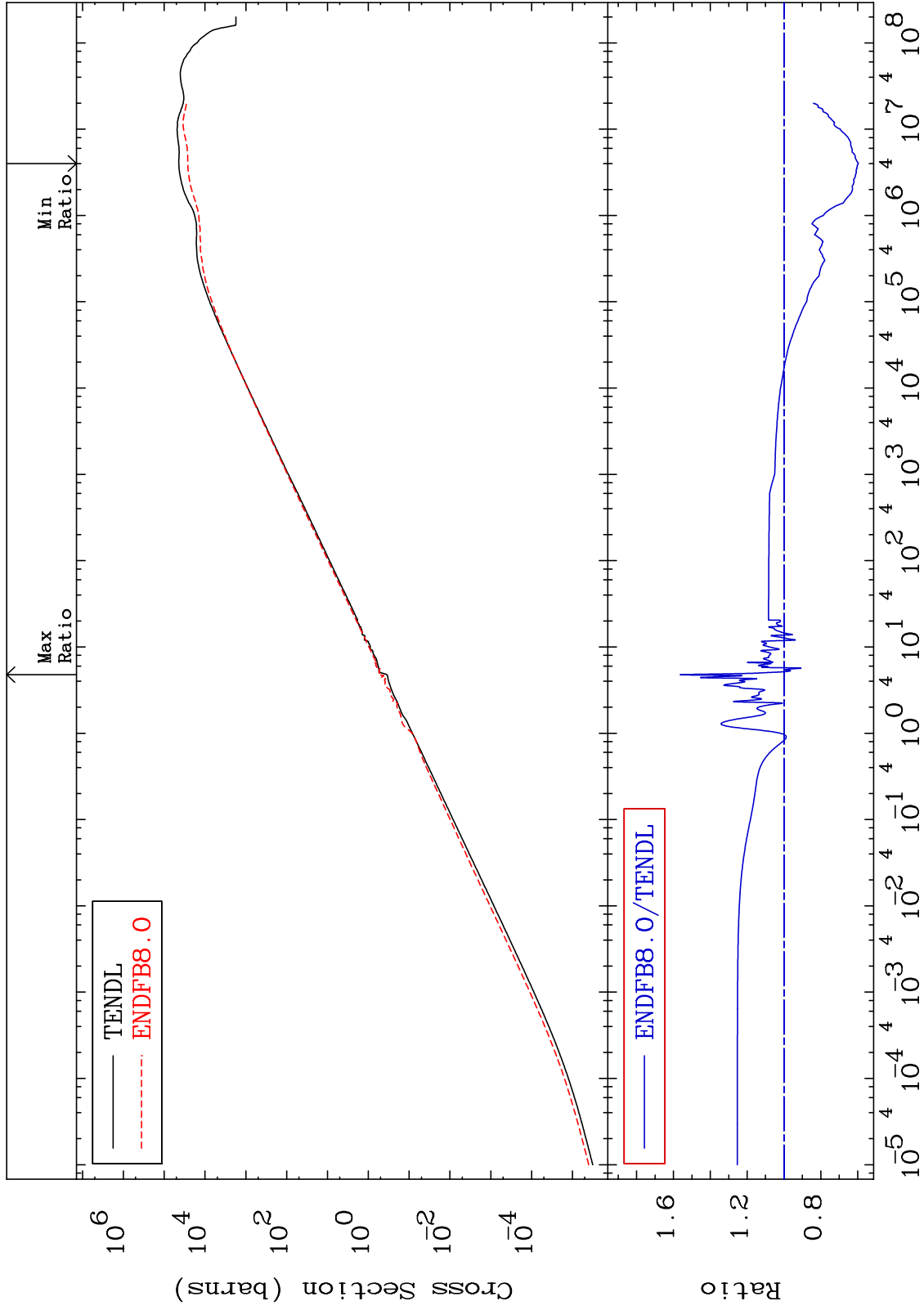
Incident Energy (eV)

93-Np-238

MAT 9349

Kerma elastic
Cross Section

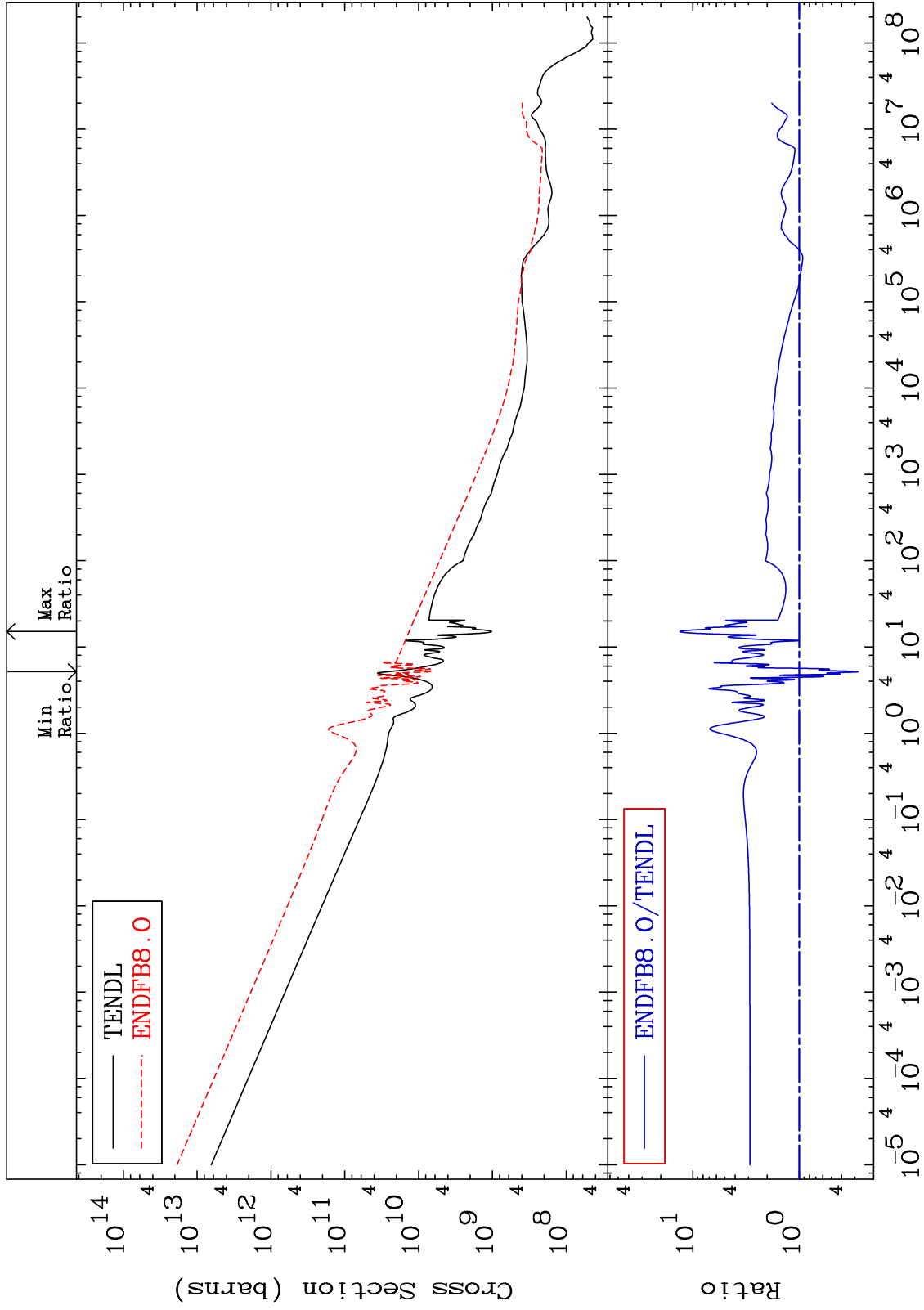
93-Np-238
-40.40 To 56.42 %



MAT 9349

Kerma non-elastic (all but mt2)
Cross Section

93-Np-238
-72.16 To 1217. %



45

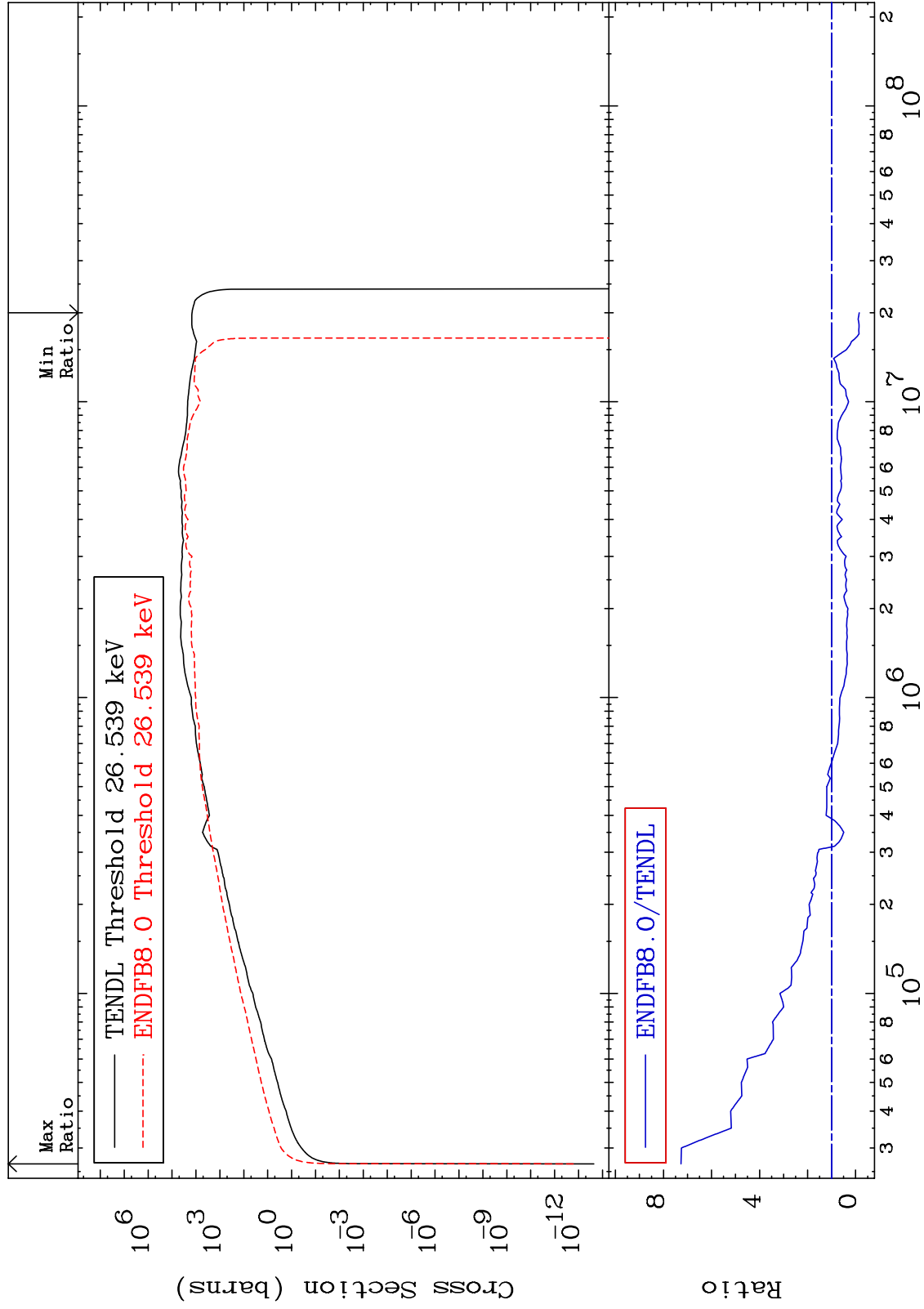
Incident Energy (eV)

93-Np-238

MAT 9349

Kerma inelastic (mt51-91)
Cross Section

93-Np-238
-115.2 To 626.8 %



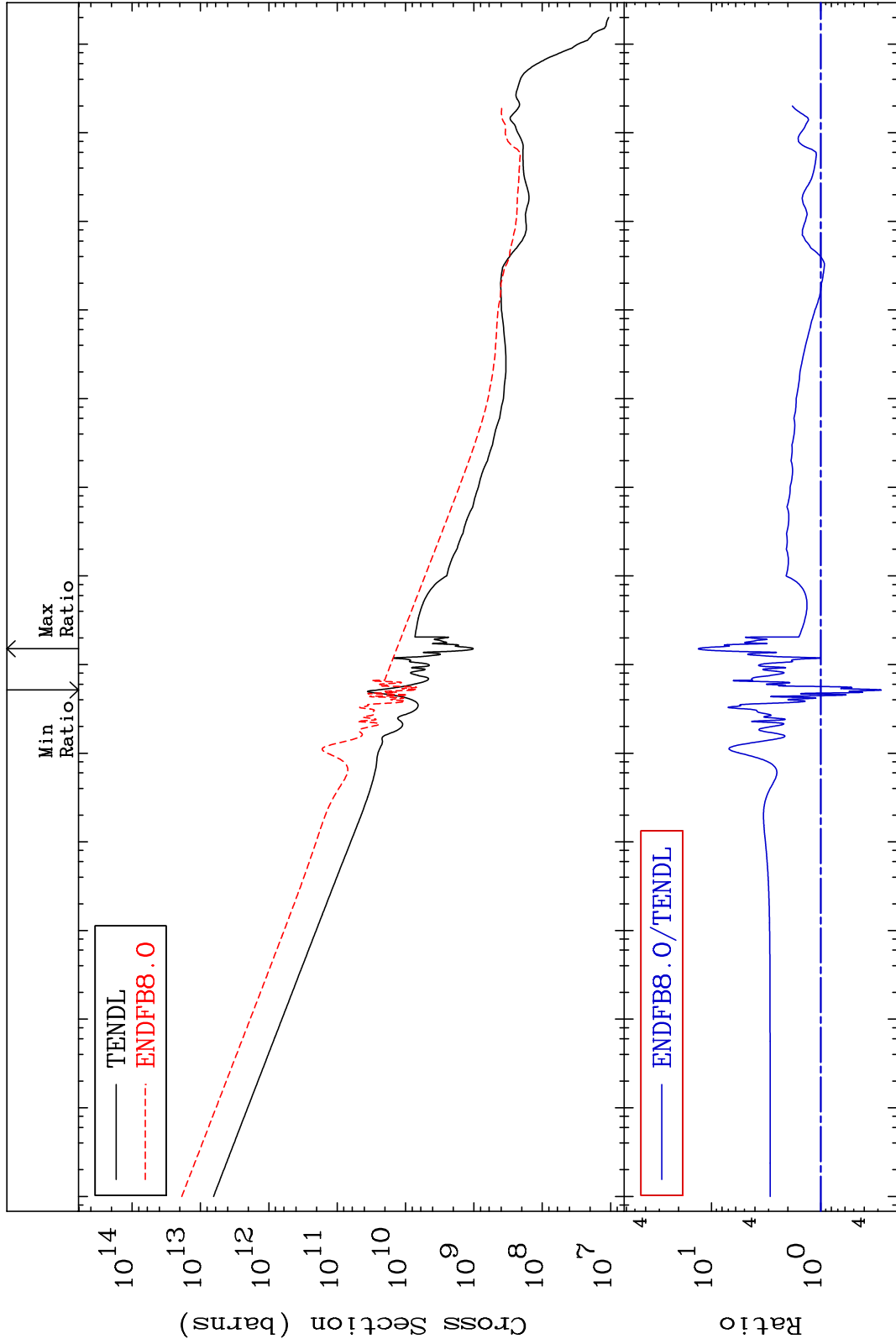
MAT 9349

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

93-Np-238

-72.16 To 1217. %

Cross Section



47

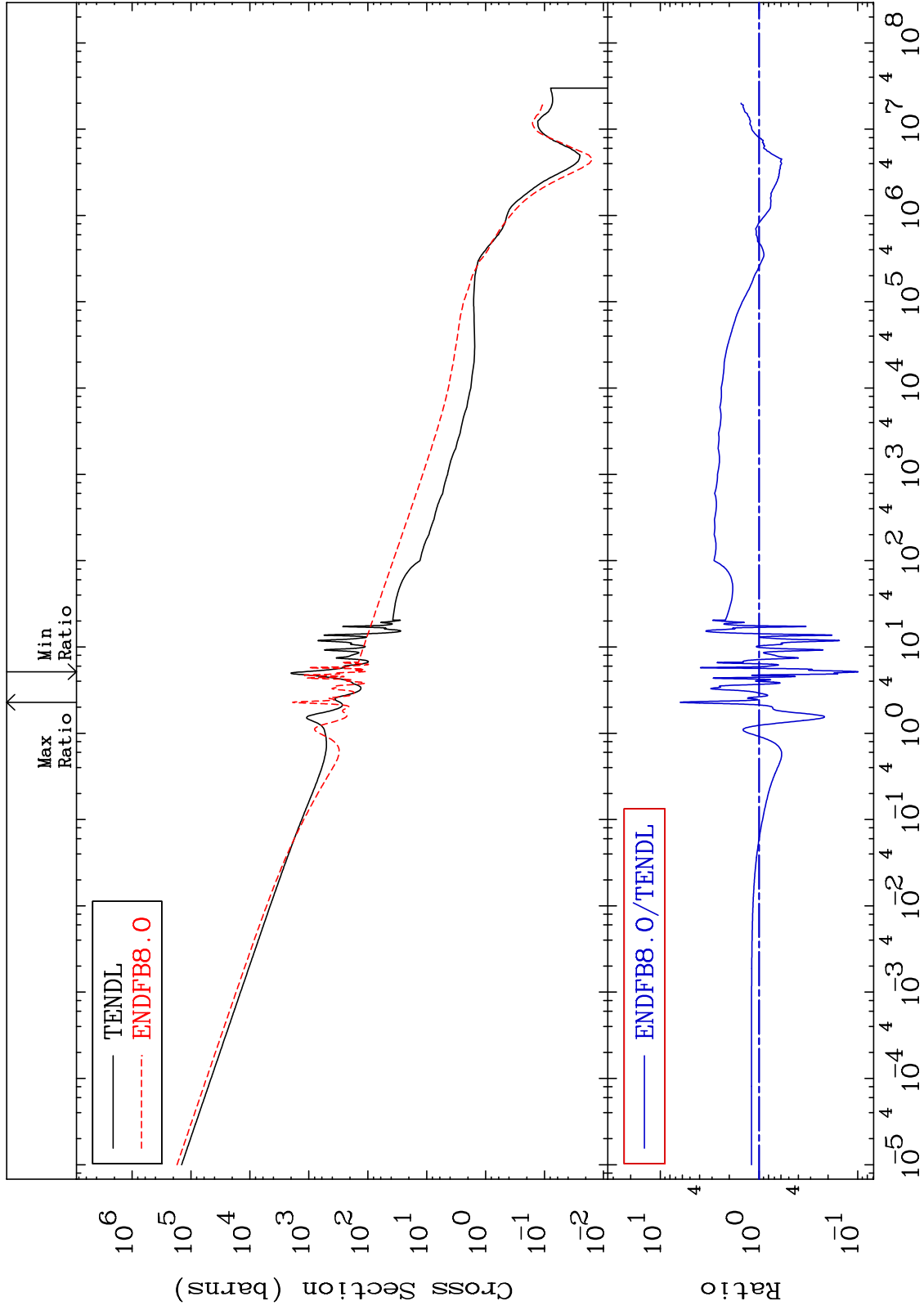
Incident Energy (eV)

93-Np-238

MAT 9349

Kerma capture (mt102)
Cross Section

93-Np-238
-90.16 To 532.2 %



48

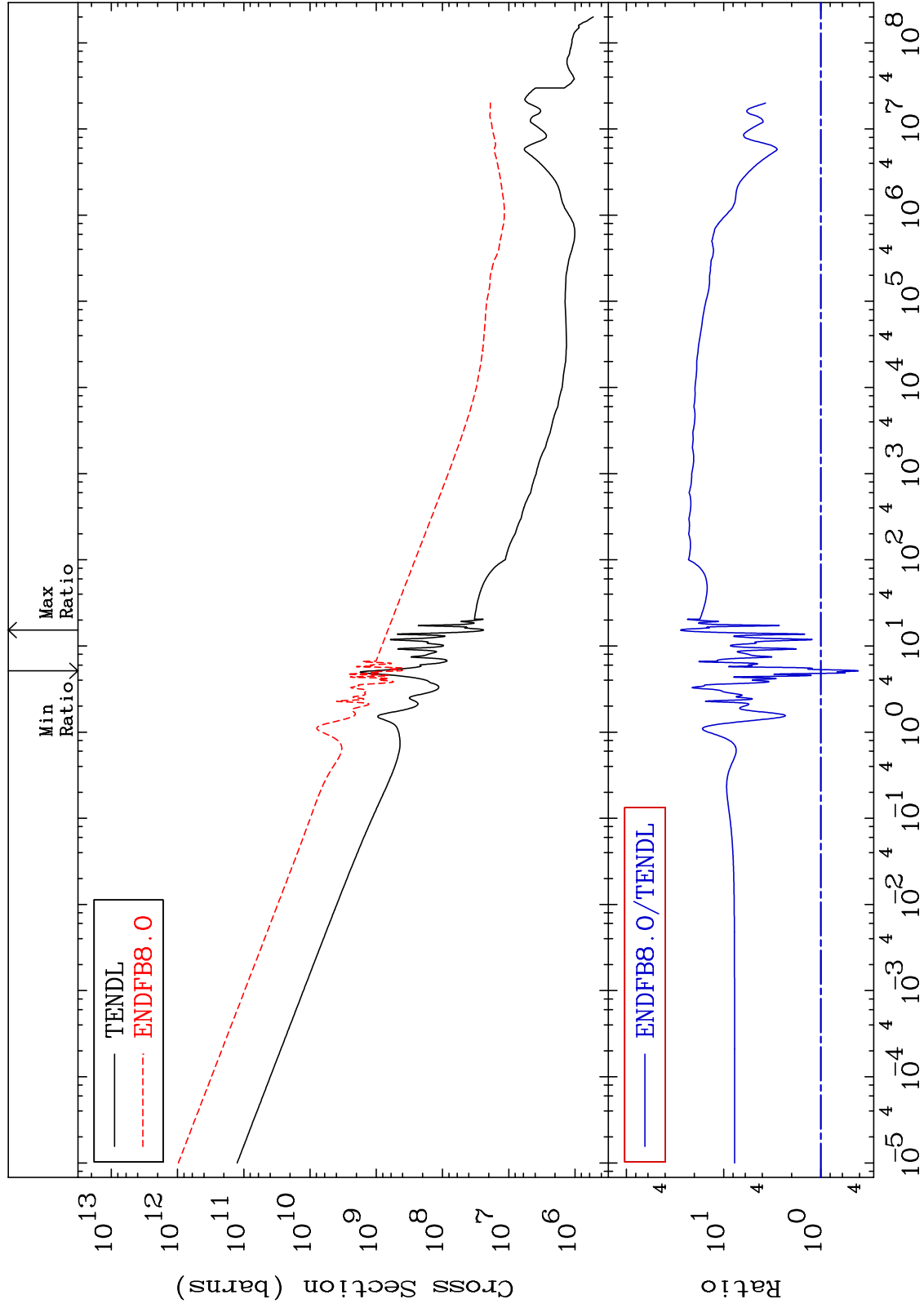
Incident Energy (eV)

93-Np-238

MAT 9349

Total photon (eV-barns)
Cross Section

93-Np-238
-59.03 To 2680. %



49

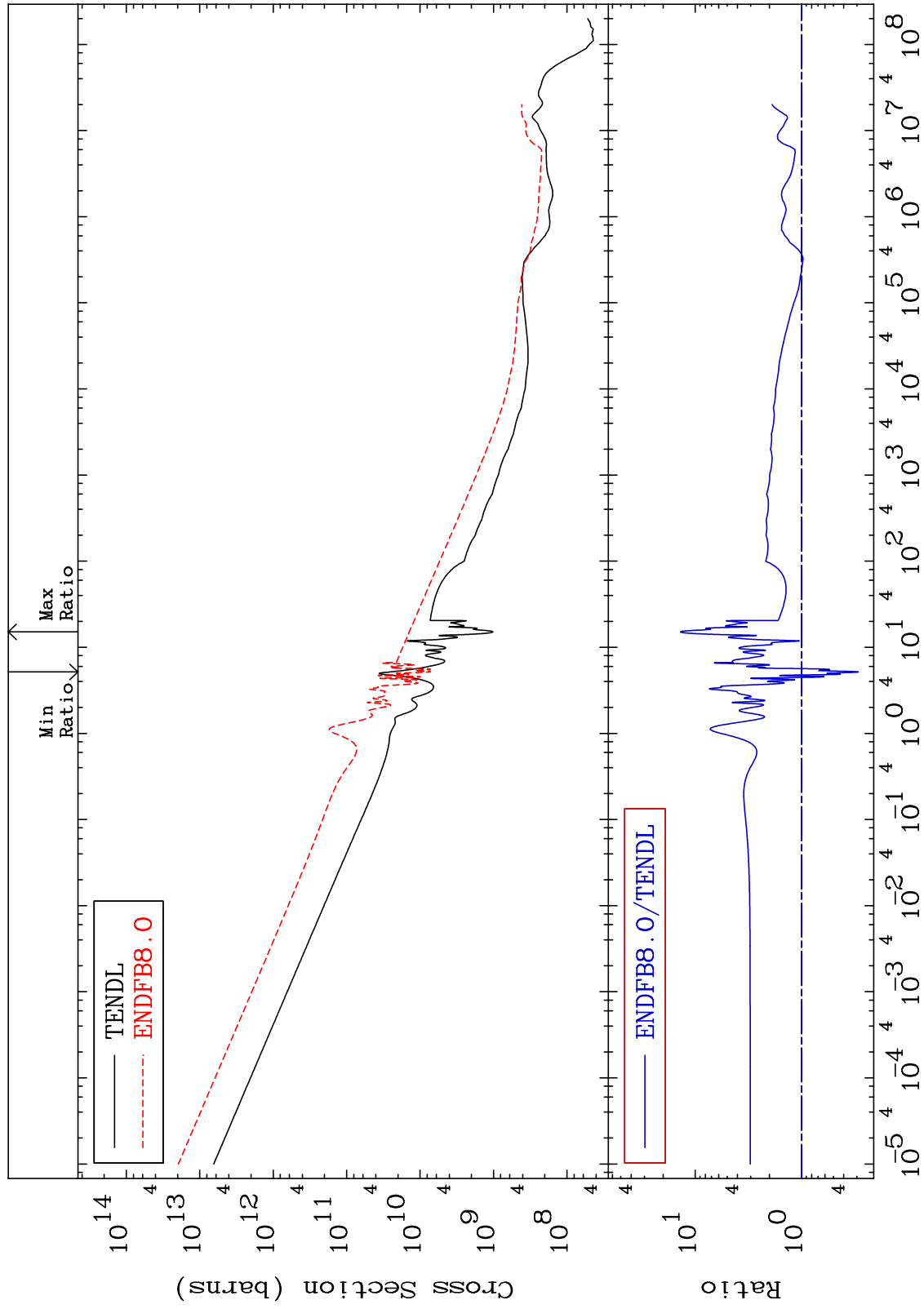
Incident Energy (eV)

93-Np-238

MAT 9349

Total kinematic kerma (high limit)
Cross Section

93-Np-238
-70.96 To 1274. %



50

Incident Energy (eV)

93-Np-238

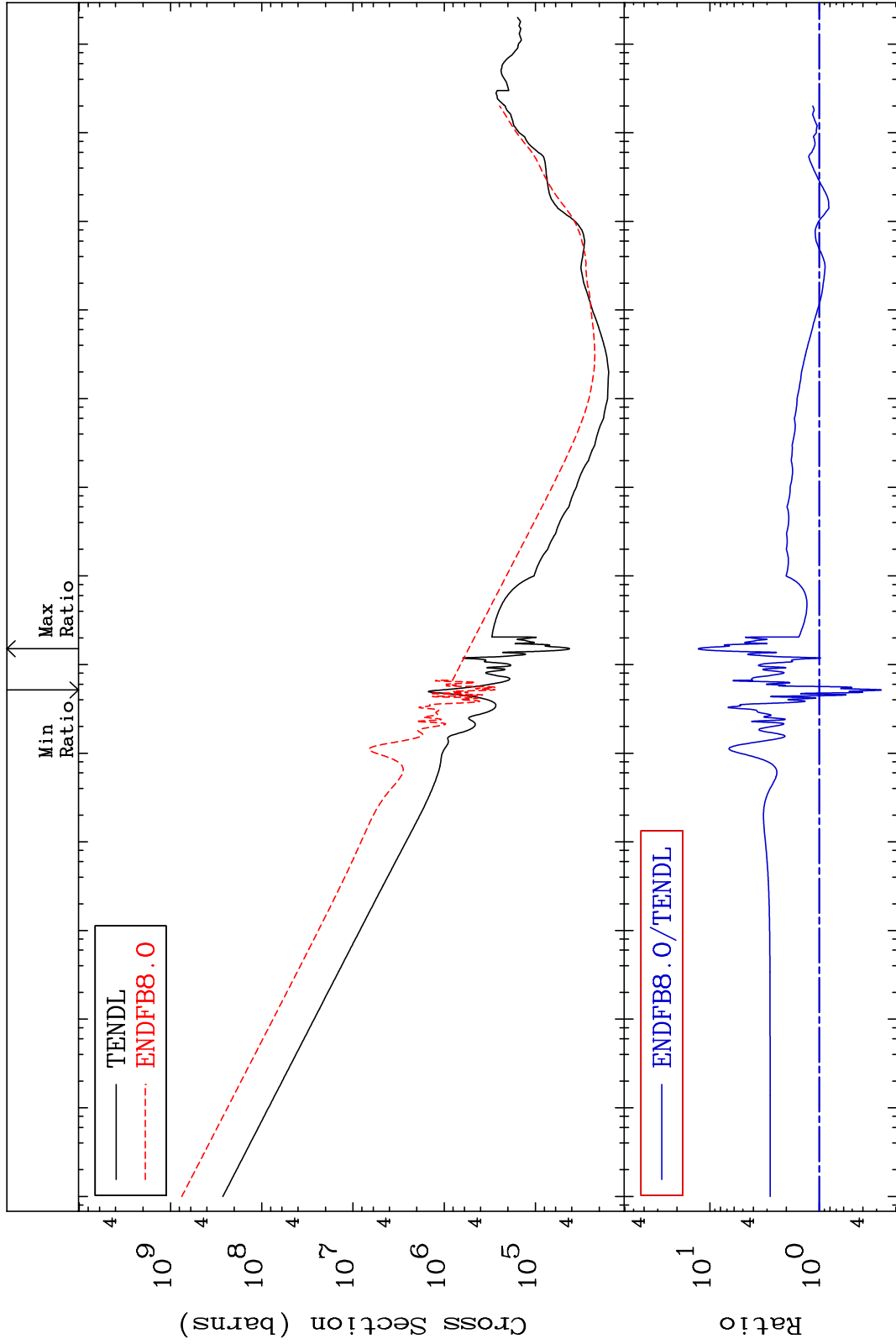
MAT 9349

Dpa total (eV-barns)

93-Np-238

-73.02 To 1177. %

Cross Section



Ratio

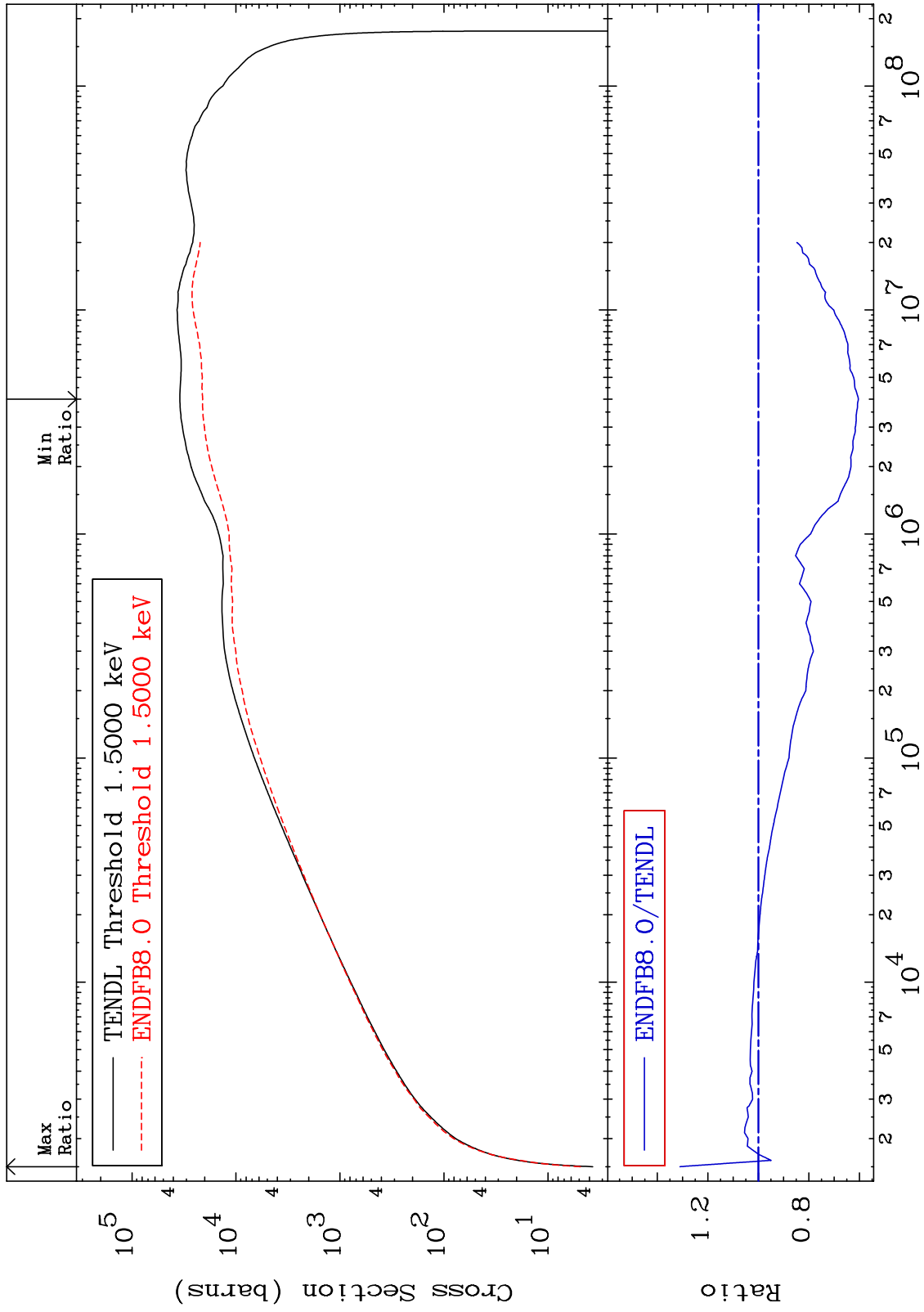
Incident Energy (eV)

93-Np-238

MAT 9349

Dpa elastic (mt2)
Cross Section

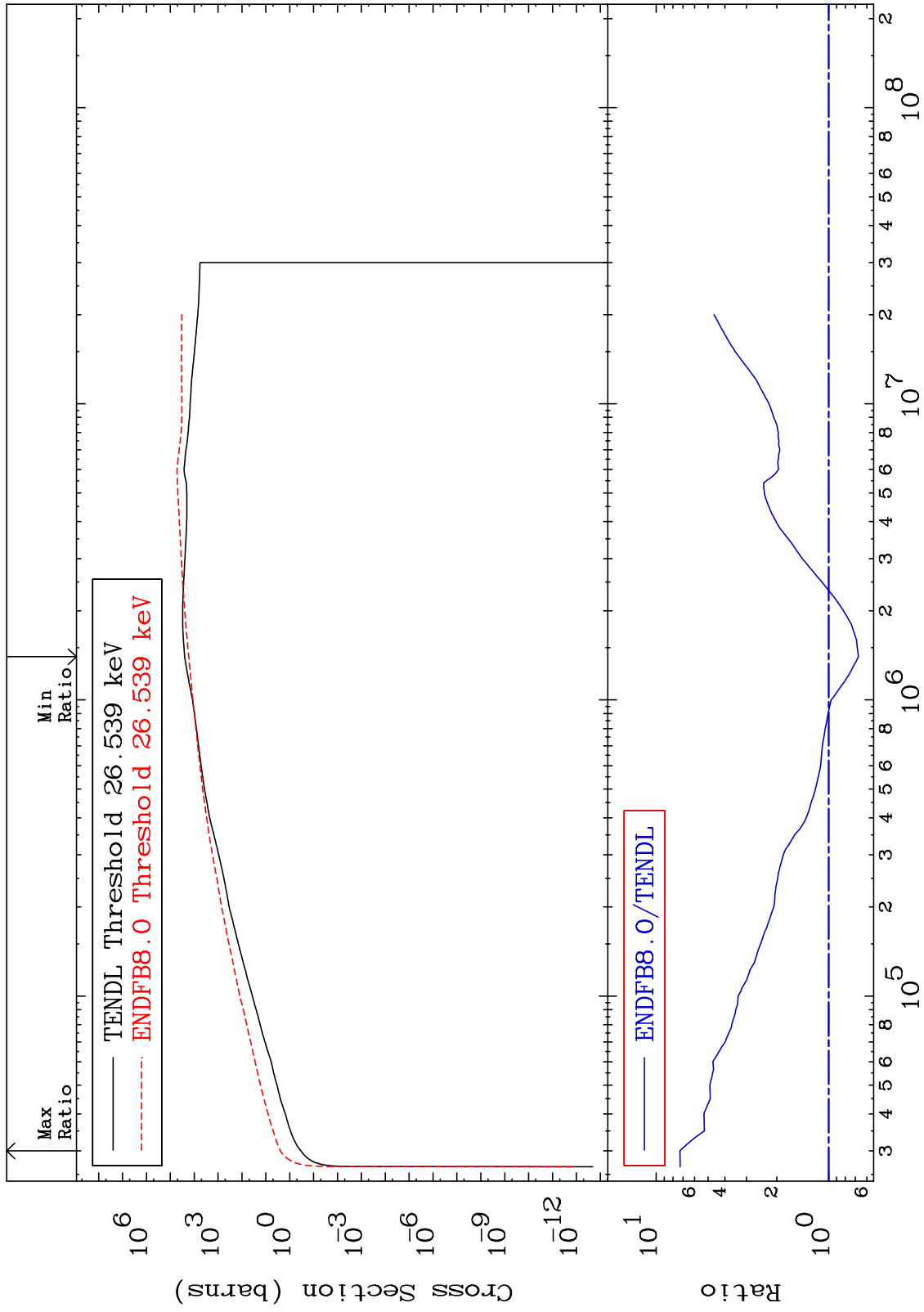
93-Np-238
-39.61 To 31.03 %



MAT 9349

Dpa inelastic (mt51-91)
Cross Section

93-Np-238
-32.81 To 628.1 %



MAT 9349

Dpa disappearance (mt102 -120)
Cross Section

93-Np-238
-100.0 To 450.6 %

