

Program Complot
(Version 2018-1)

by

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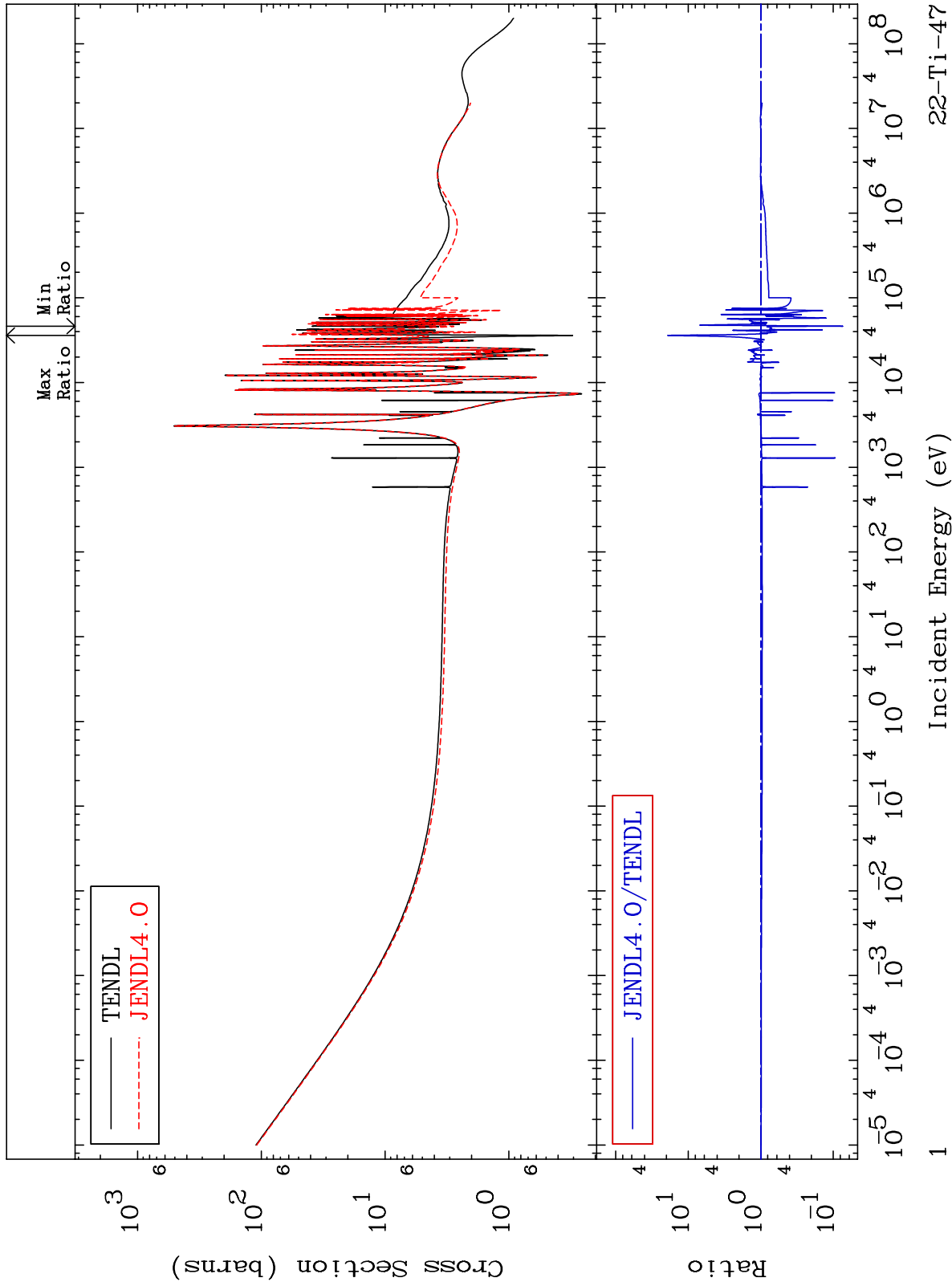
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 2228

Total
Cross Section

22-Ti-47
-92.59 To 1829. %

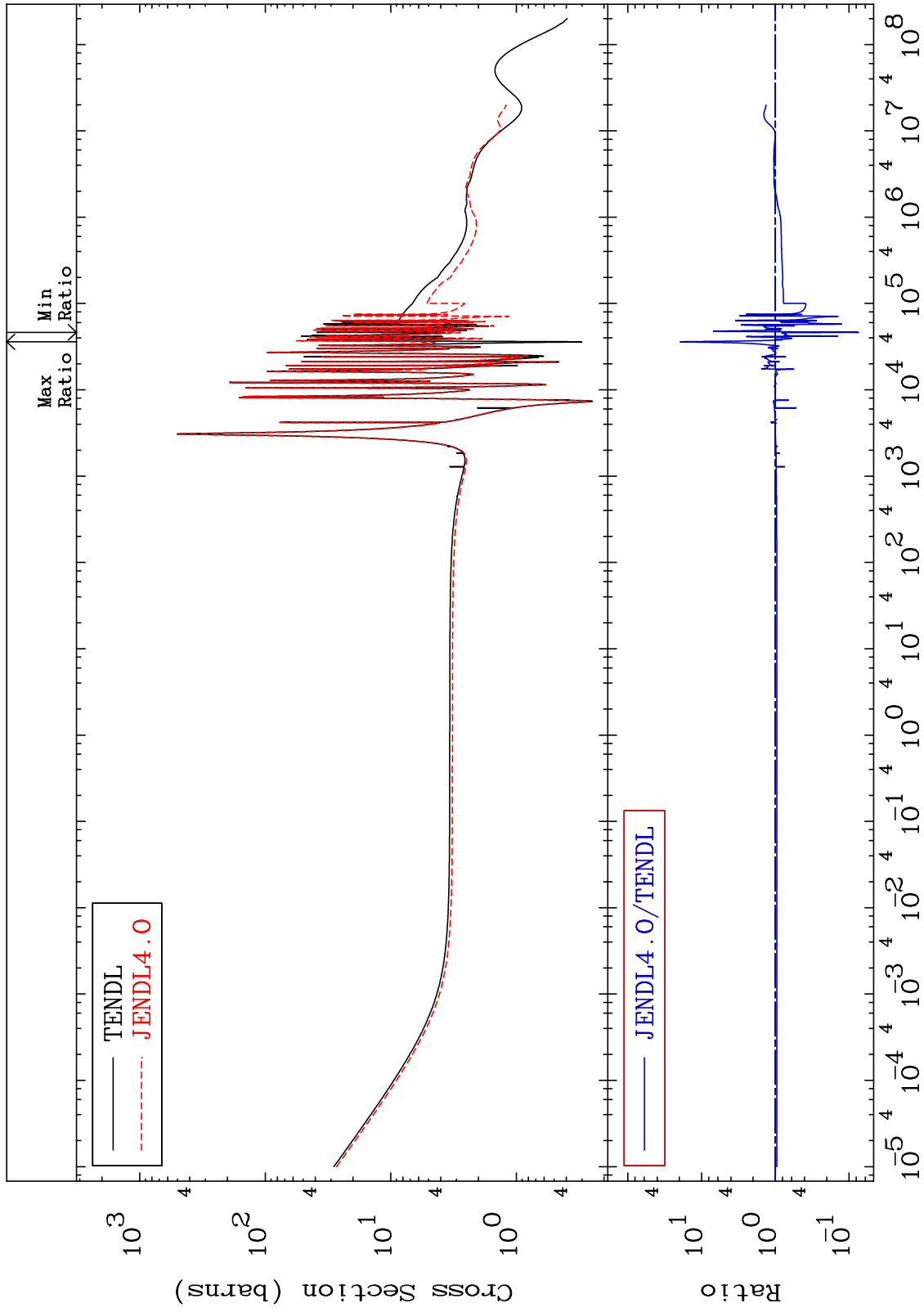


22-Ti-47

MAT 2228

Elastic
Cross Section

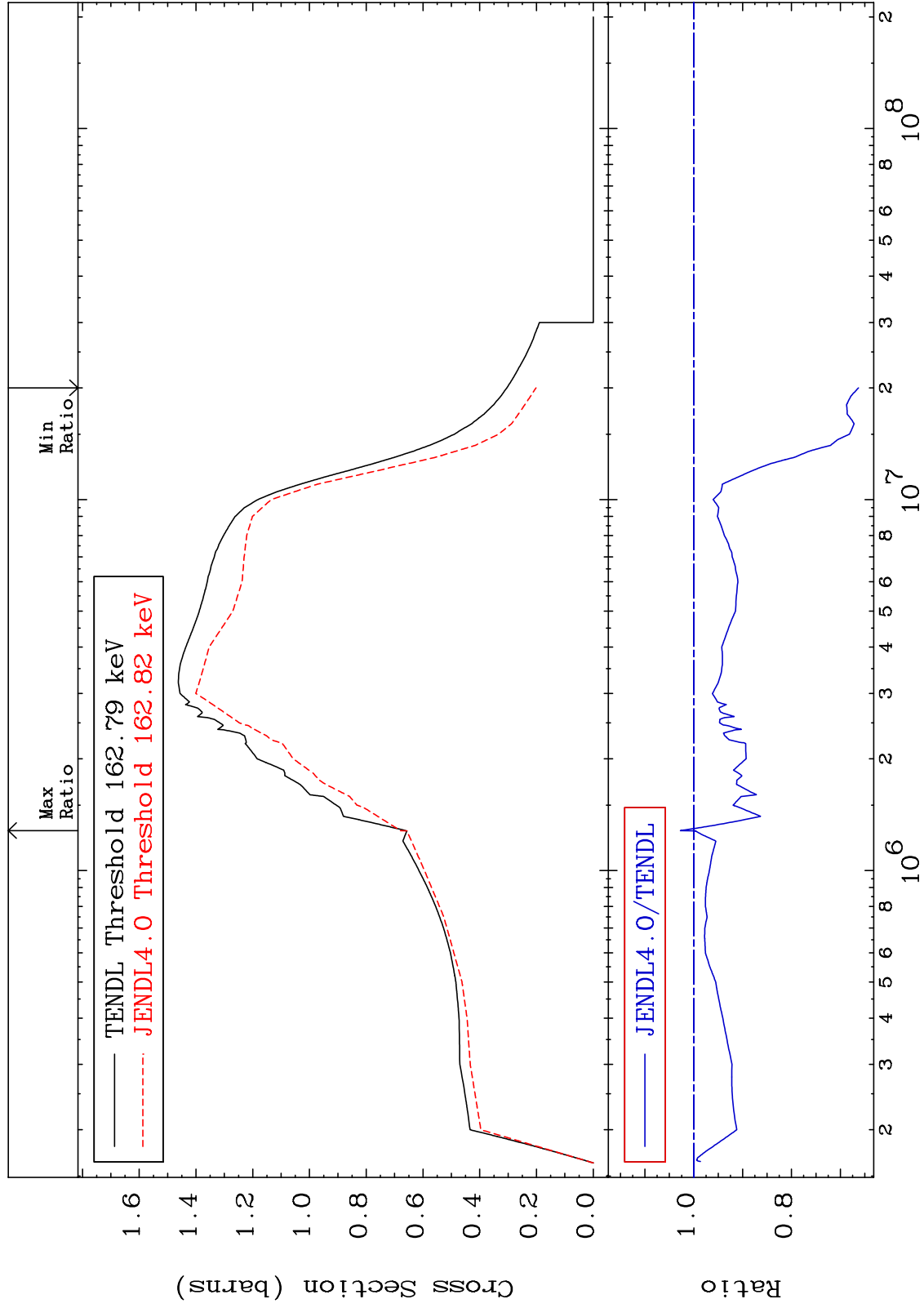
22-Ti-47
-92.55 To 1861. %



MAT 2228

Inelastic
Cross Section

22-Ti-47
-33.72 To 2.732 %



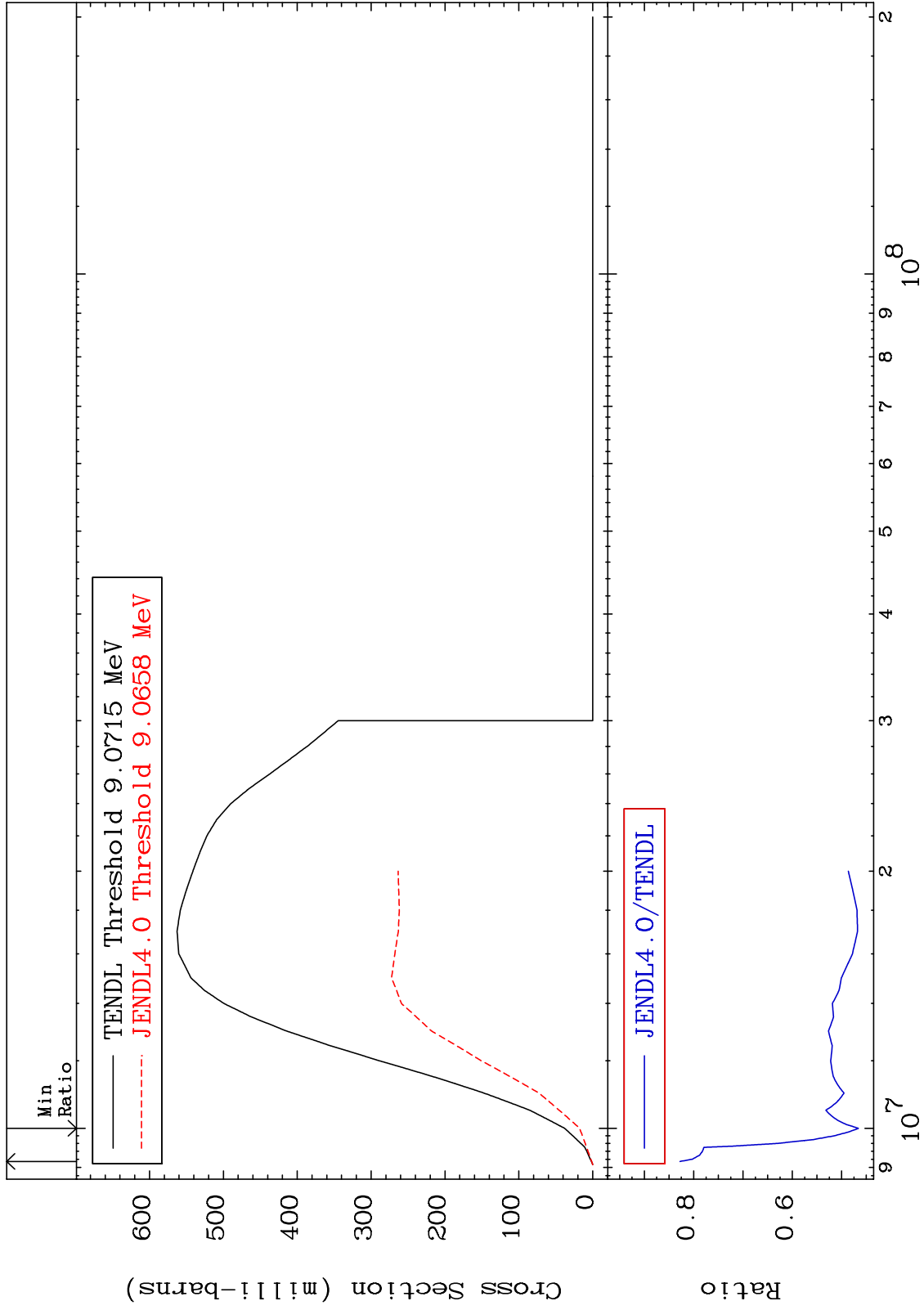
MAT 2228

(n,2n)

22-Ti-47

Cross Section

-53.41 To -17.23%



4

22-Ti-47

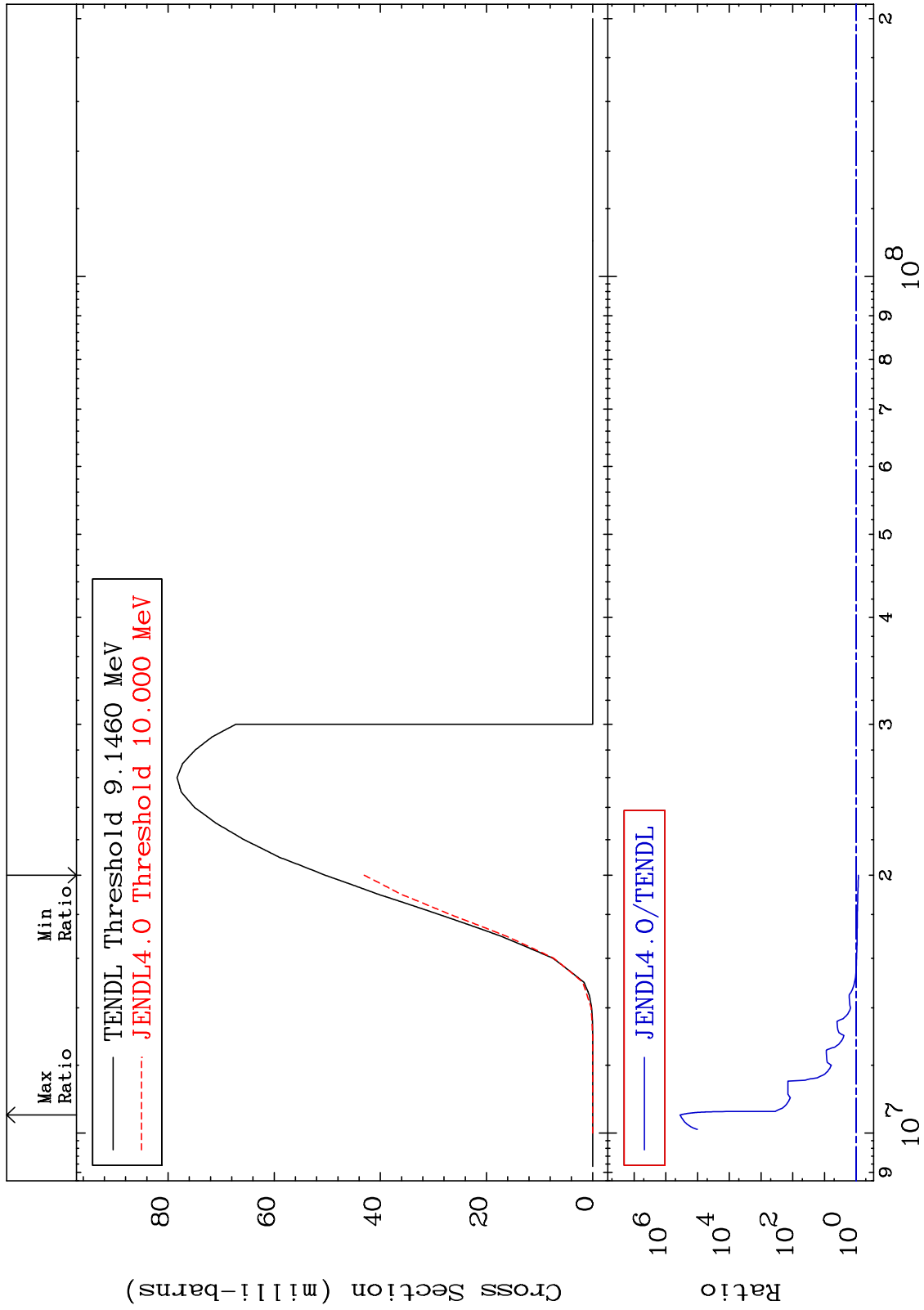
MAT 2228

(n,n') α

22-Ti-47

Cross Section

-14.57 To 9999. %



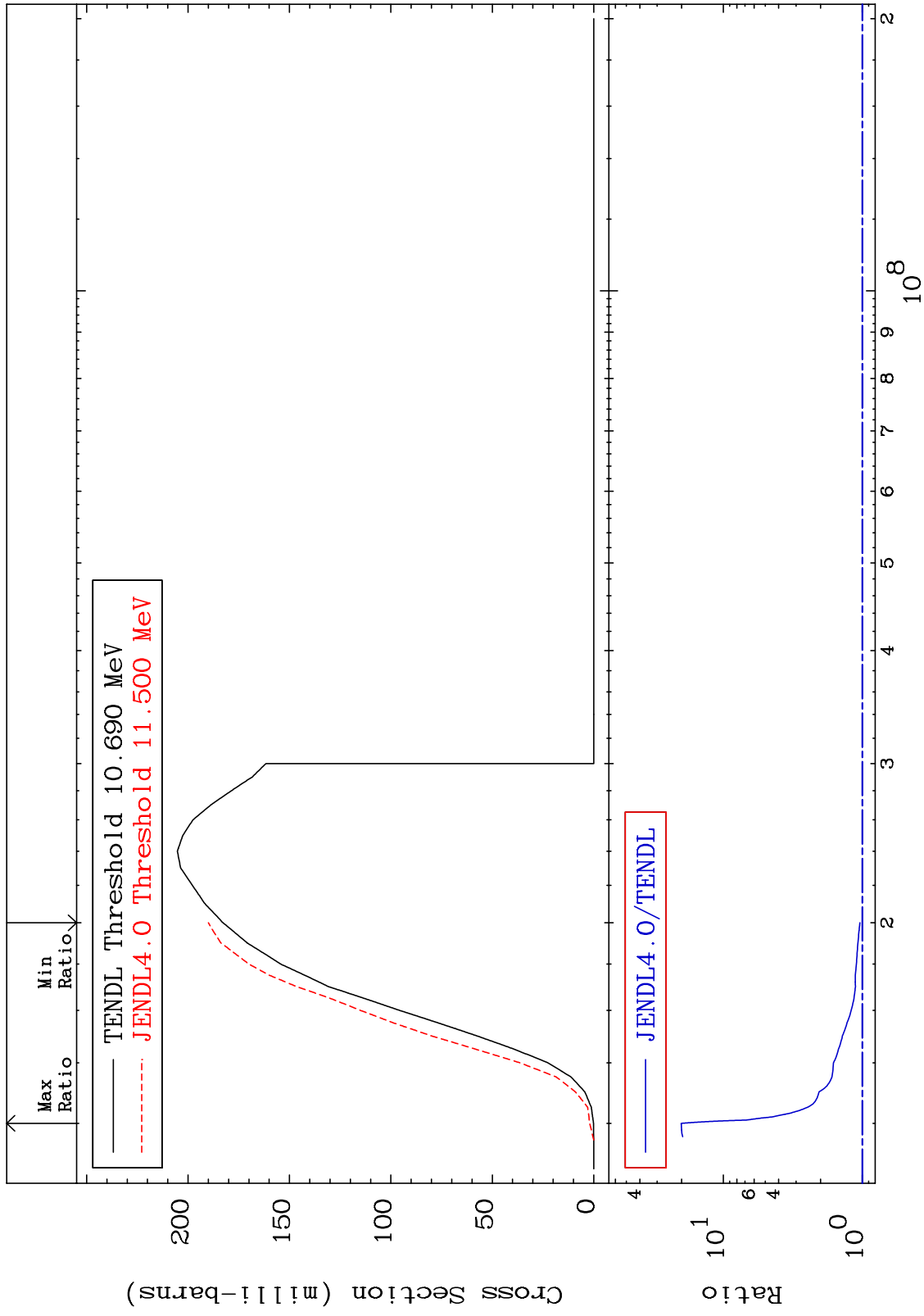
22-Ti-47

22-Ti-47

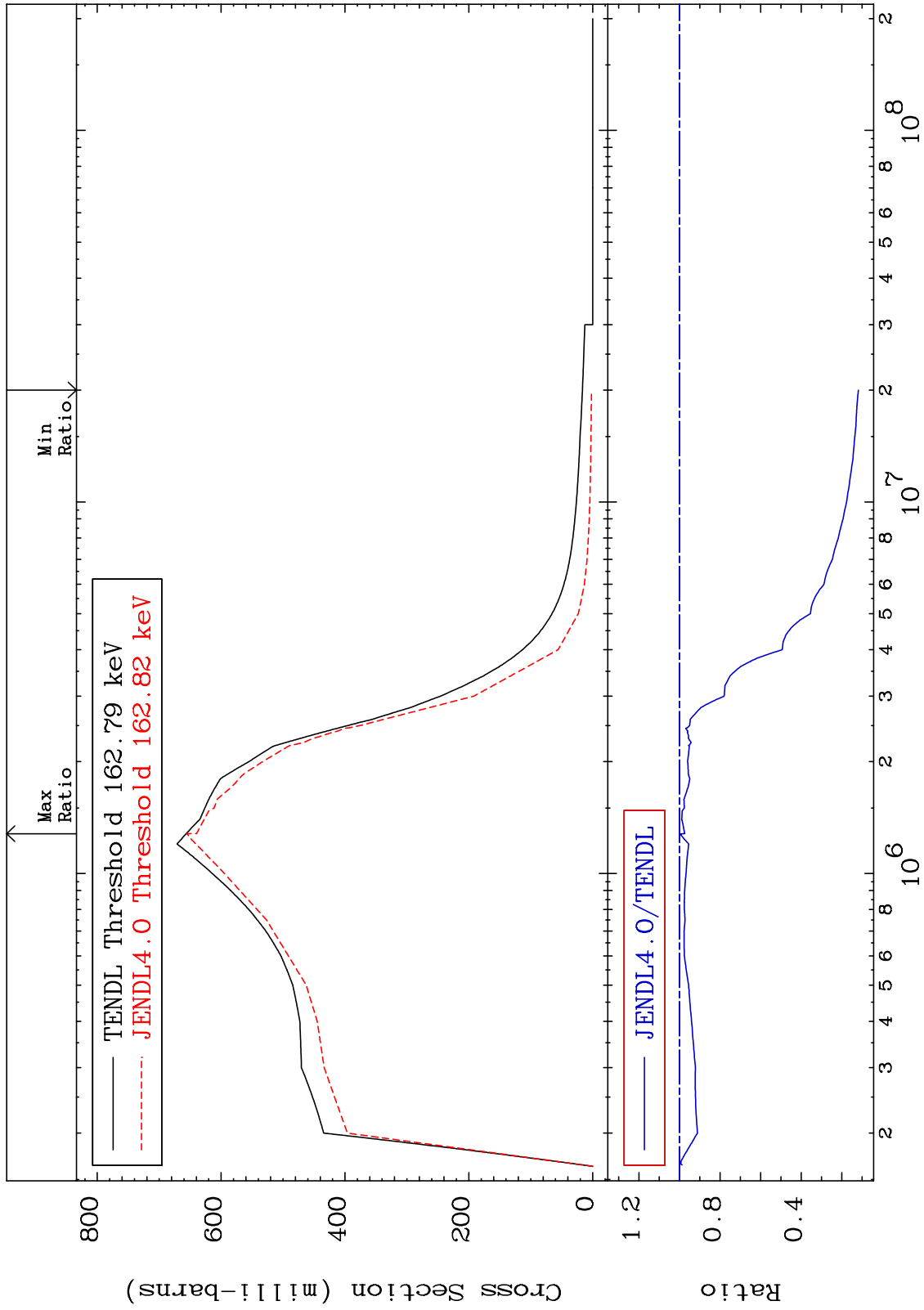
MAT 2228

(n,n') p
Cross Section

22-Ti-47
3.936 To 1912. %



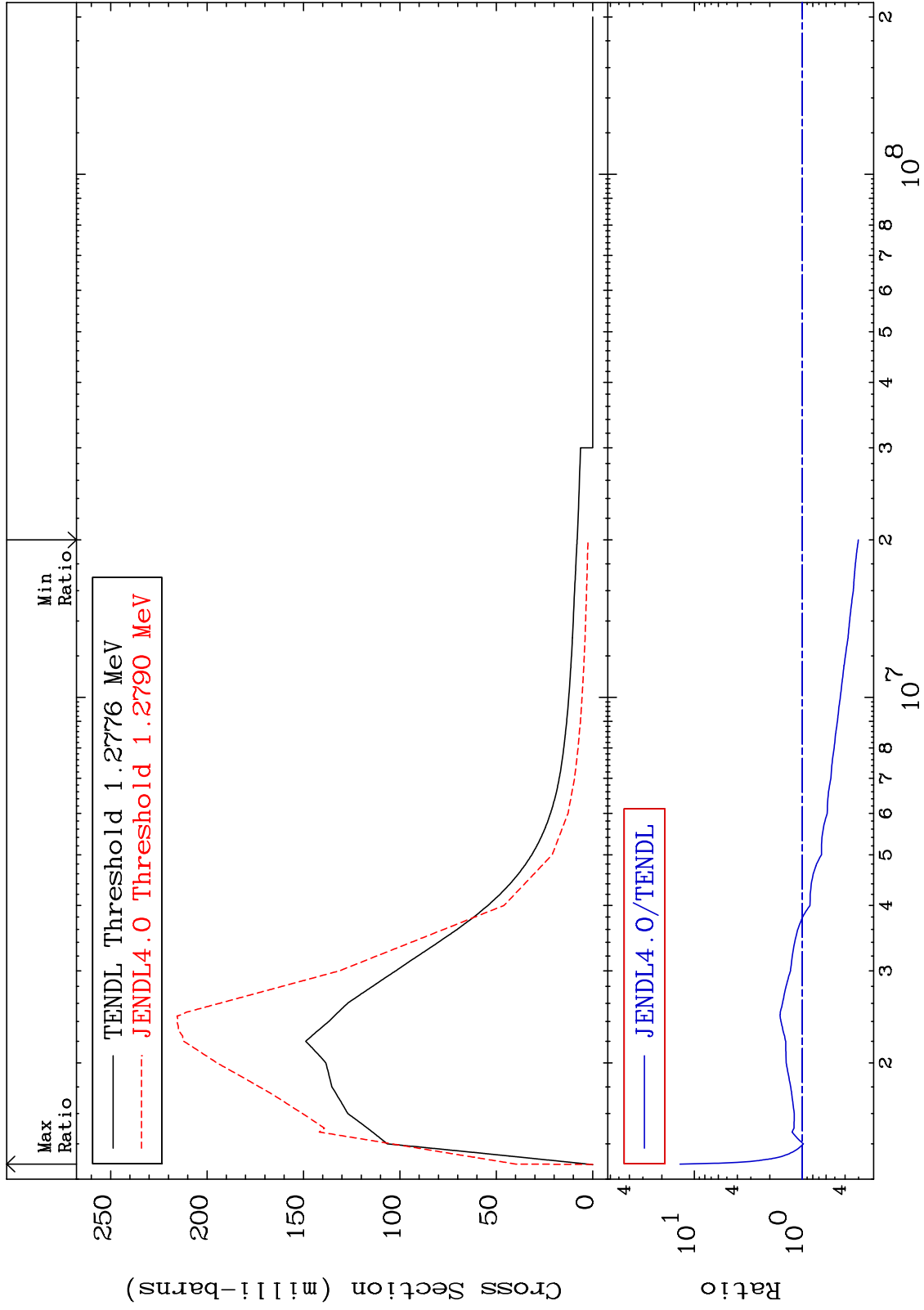
MAT 2228 MT= 51 (n,n') Level Cross Section -88.18 To -0.242% 22-Ti-47

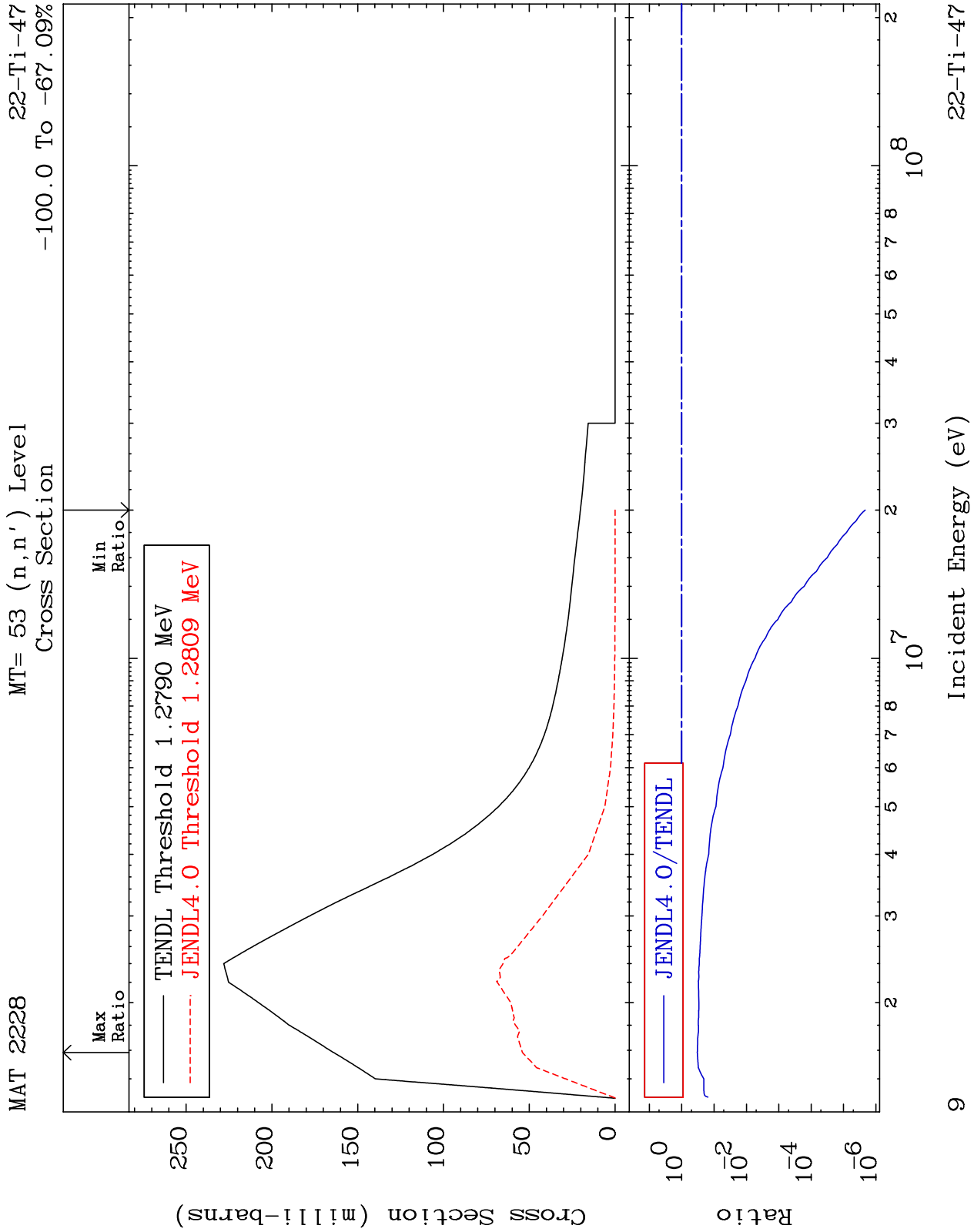


MAT 2228

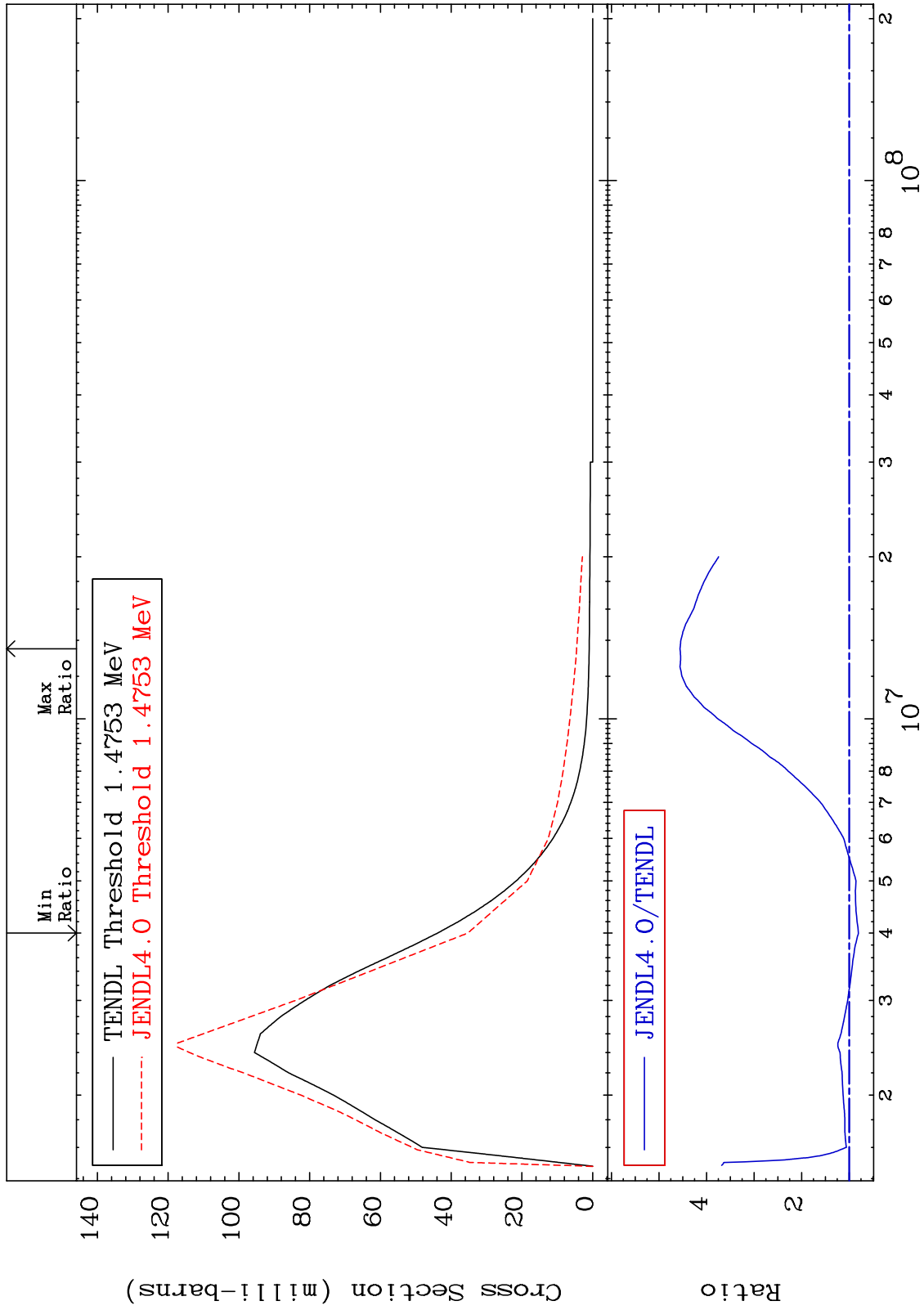
MT= 52 (n, n') Level
Cross Section

22-Ti-47
-69.85 To 1258. %



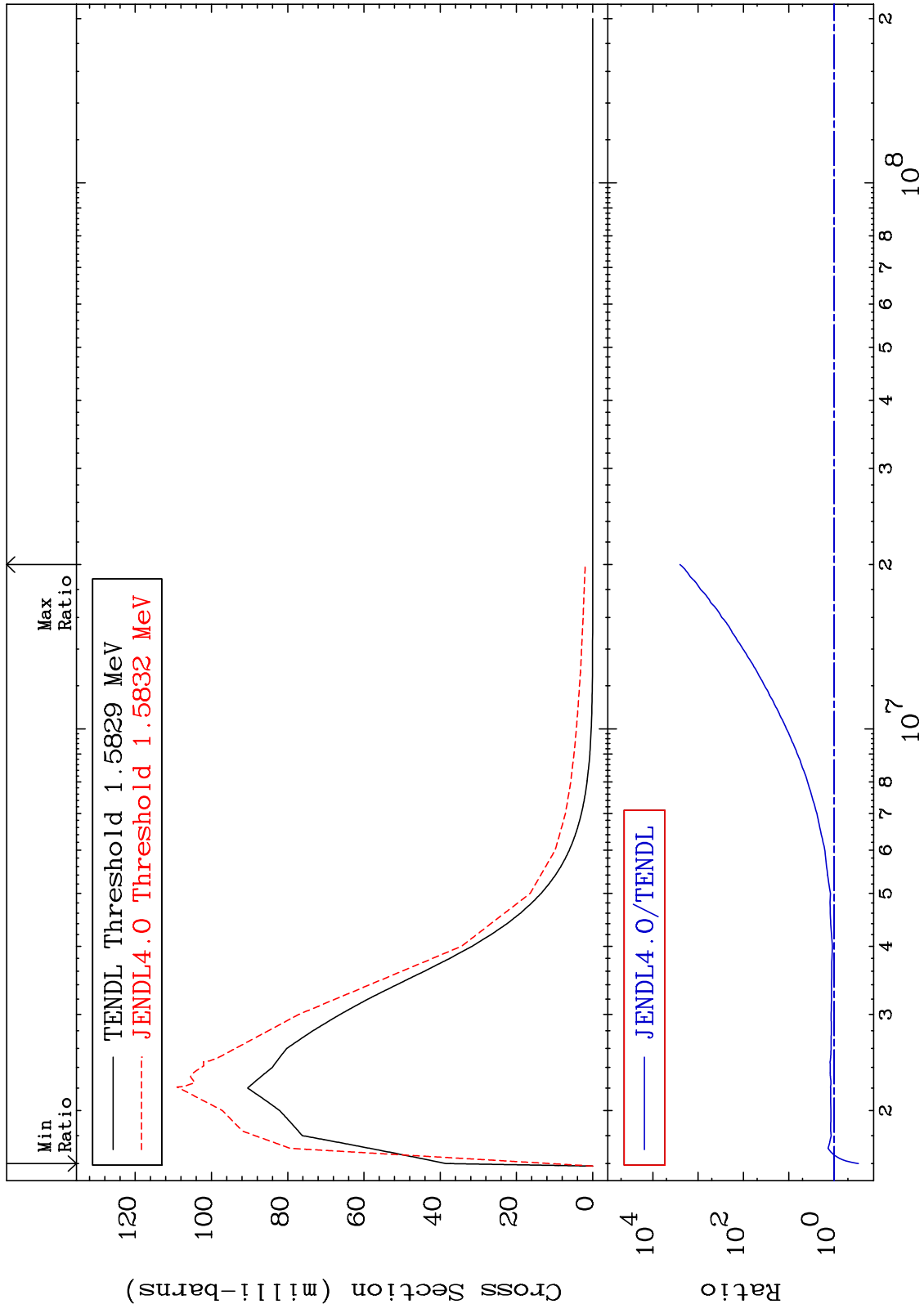


MAT 2228 MT= 54 (n,n') Level Cross Section -19.47 To 355.7 % 22-Ti-47



10 20 30 40 50 60 70 80 90 100 110 120 130 140 10 2 4 10 20 30 40 50 60 70 80 90 100 110 120 130 140 22-Ti-47

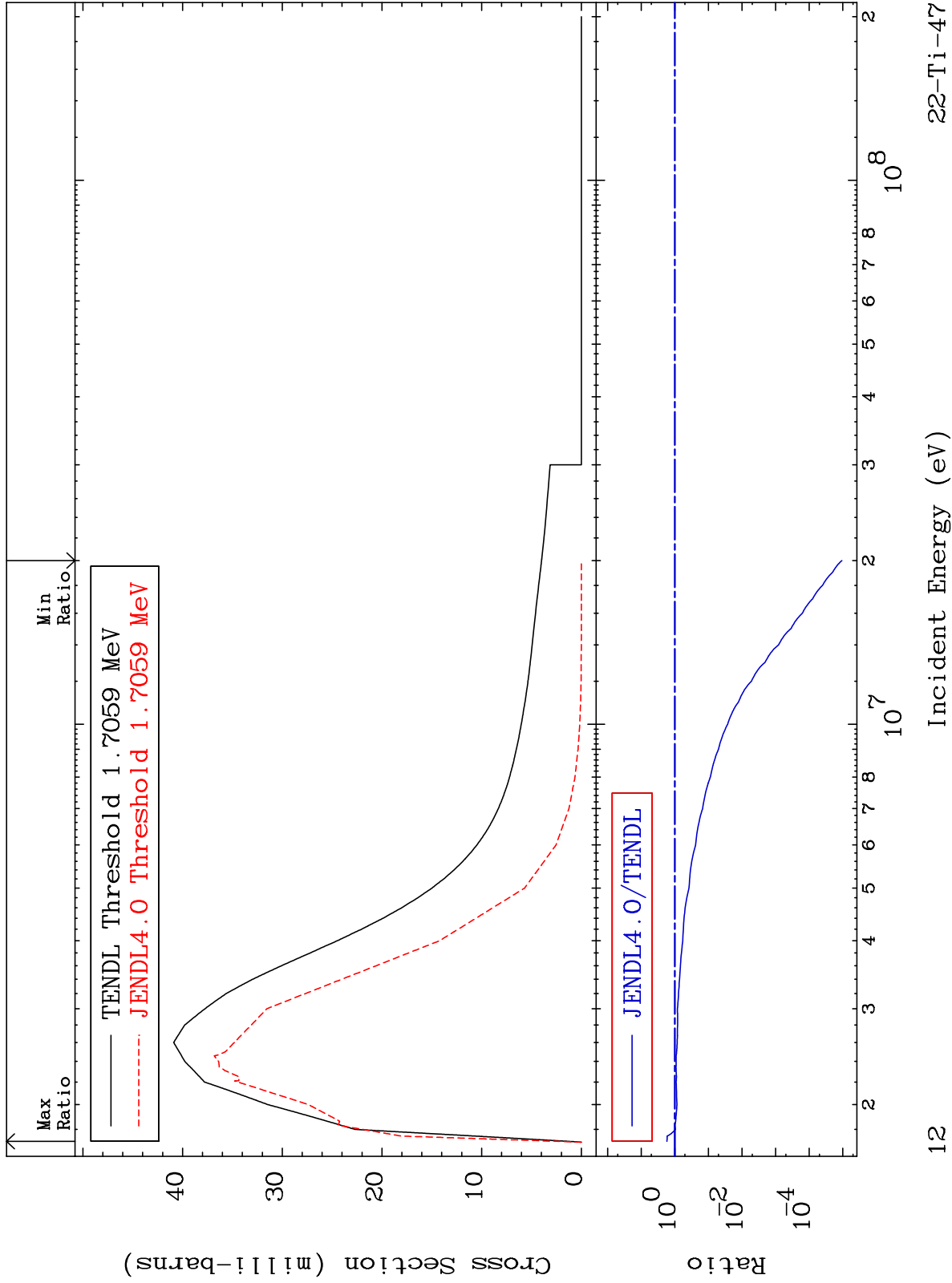
MAT 2228 MT= 55 (n,n') Level 22-Ti-47
 Cross Section -70.83 To 9999. %



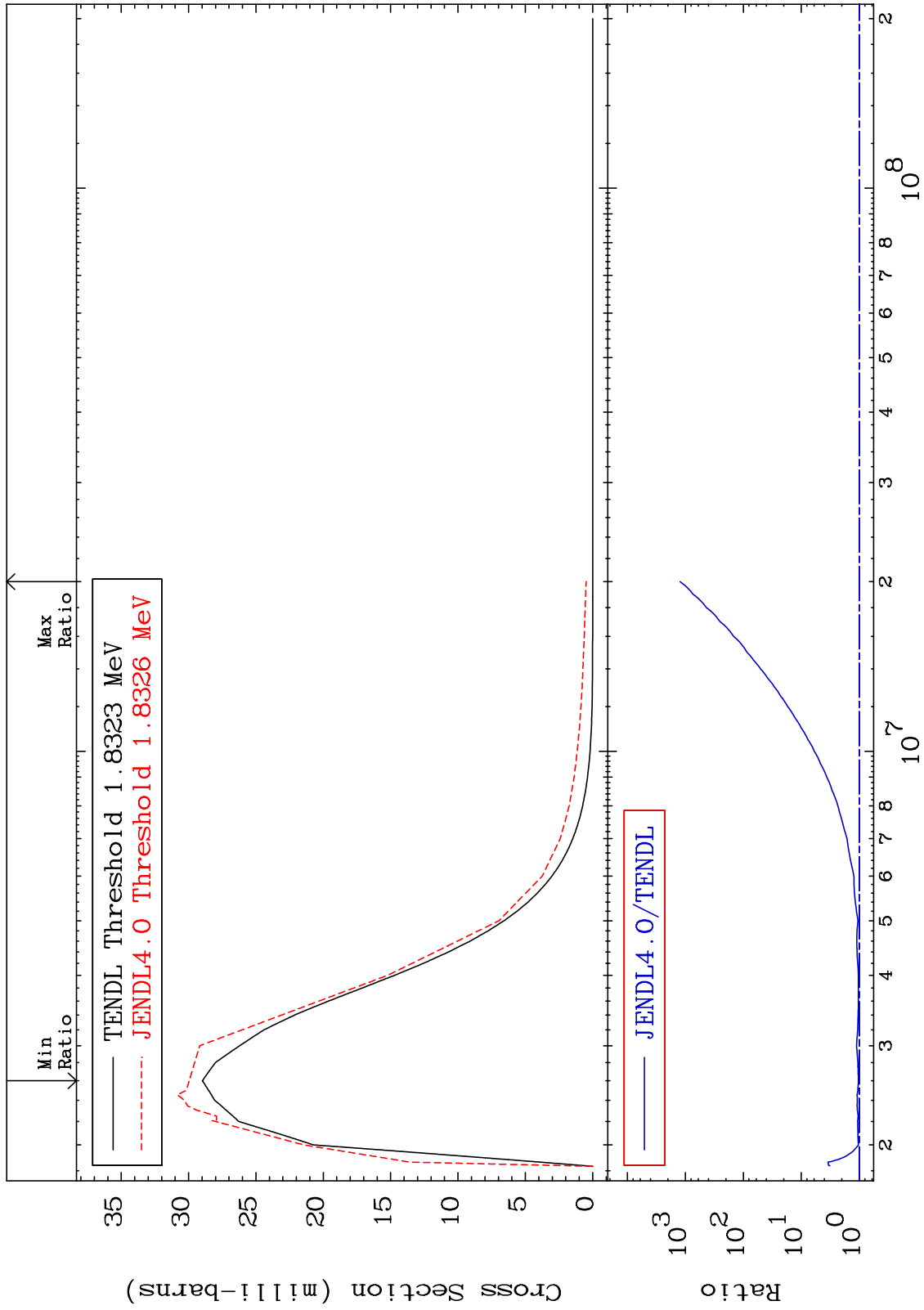
MAT 2228

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

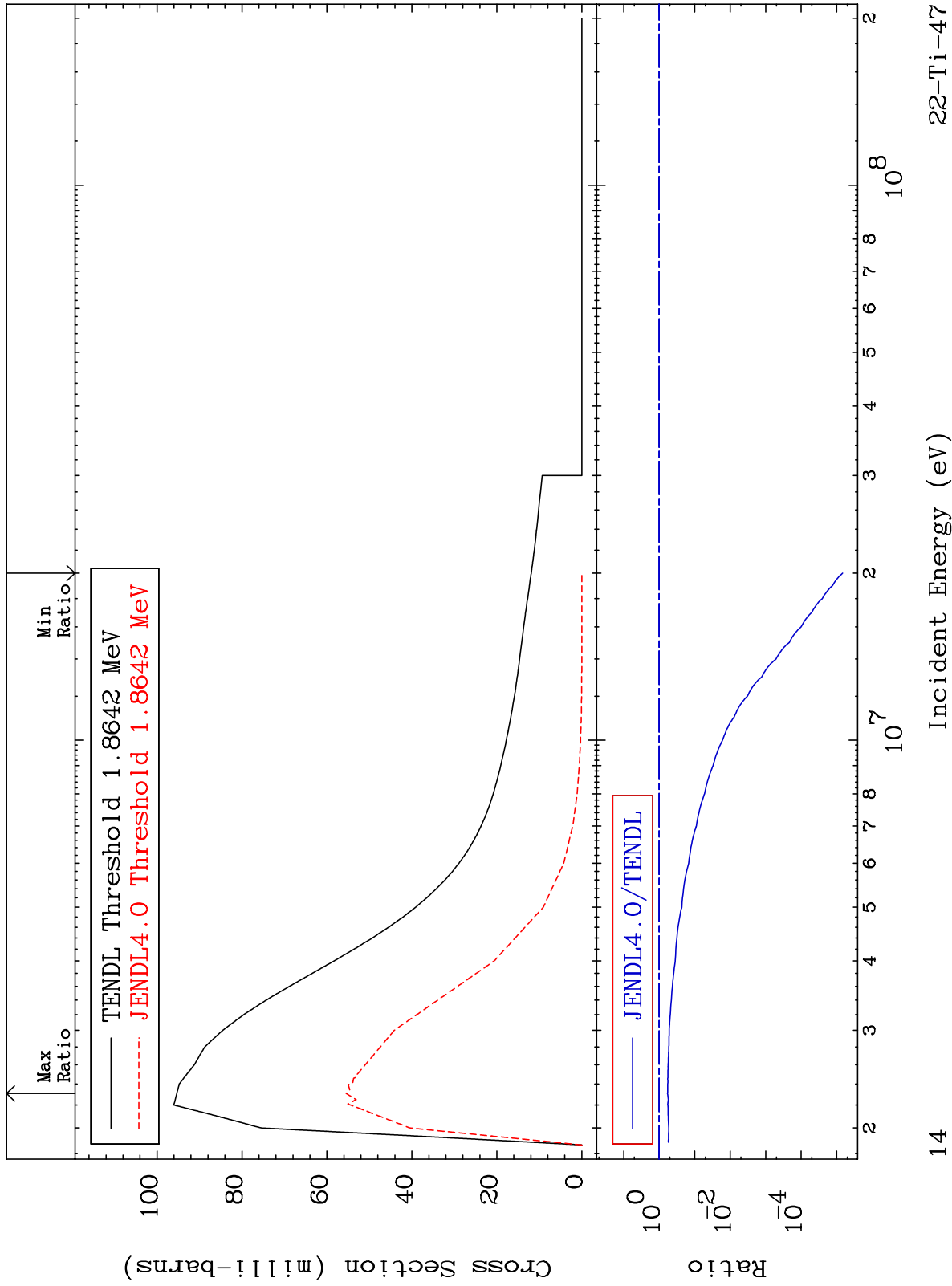
22-Ti-47
-100.0 To 71.62 %



MAT 2228 MT= 57 (n,n') Level Cross Section 22-Ti-47
 3.371 To 9999. %



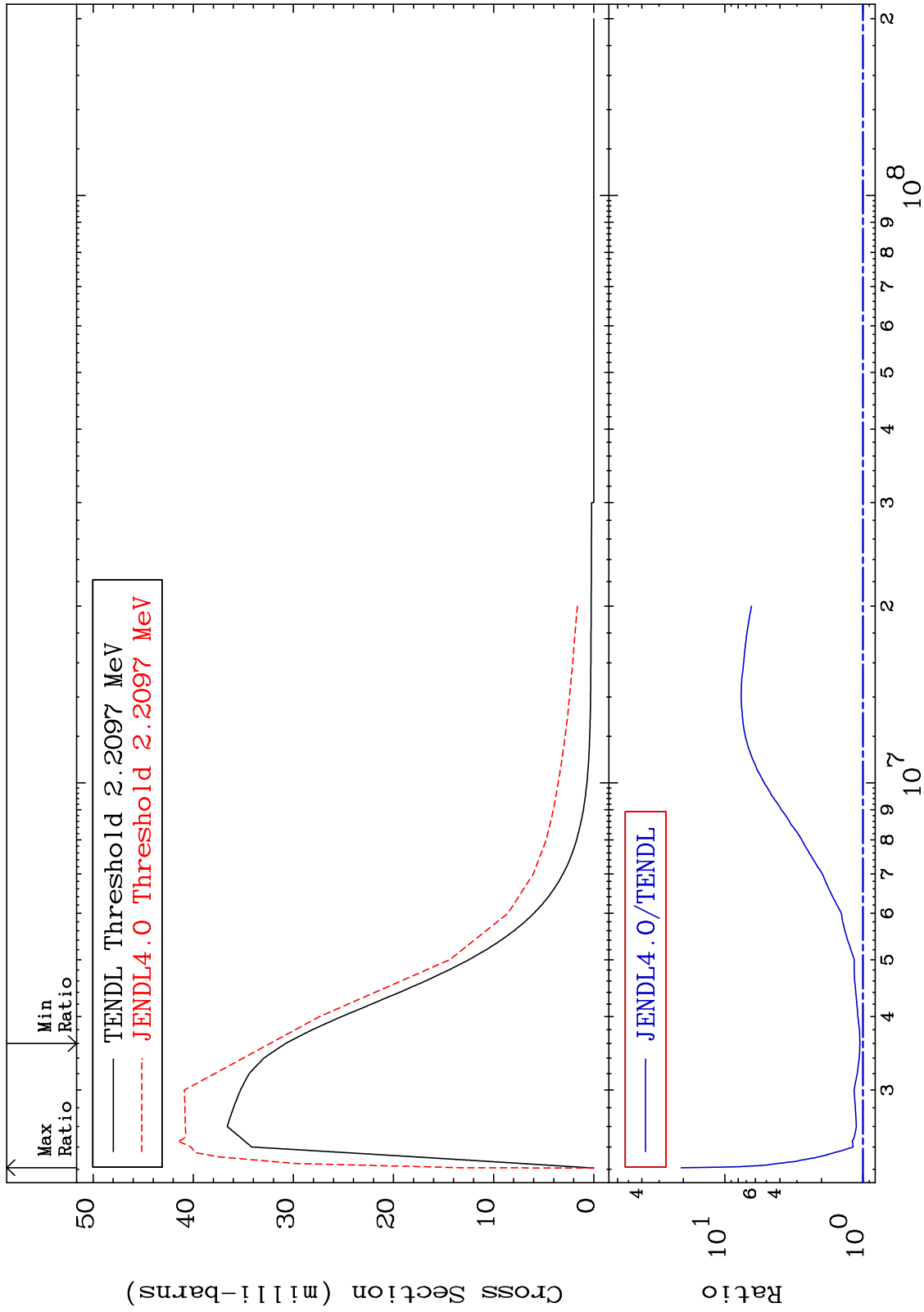
MAT 2228 MT= 58 (n,n') Level Cross Section 22-Ti-47
 -100.0 To -41.83%



MAT 2228

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

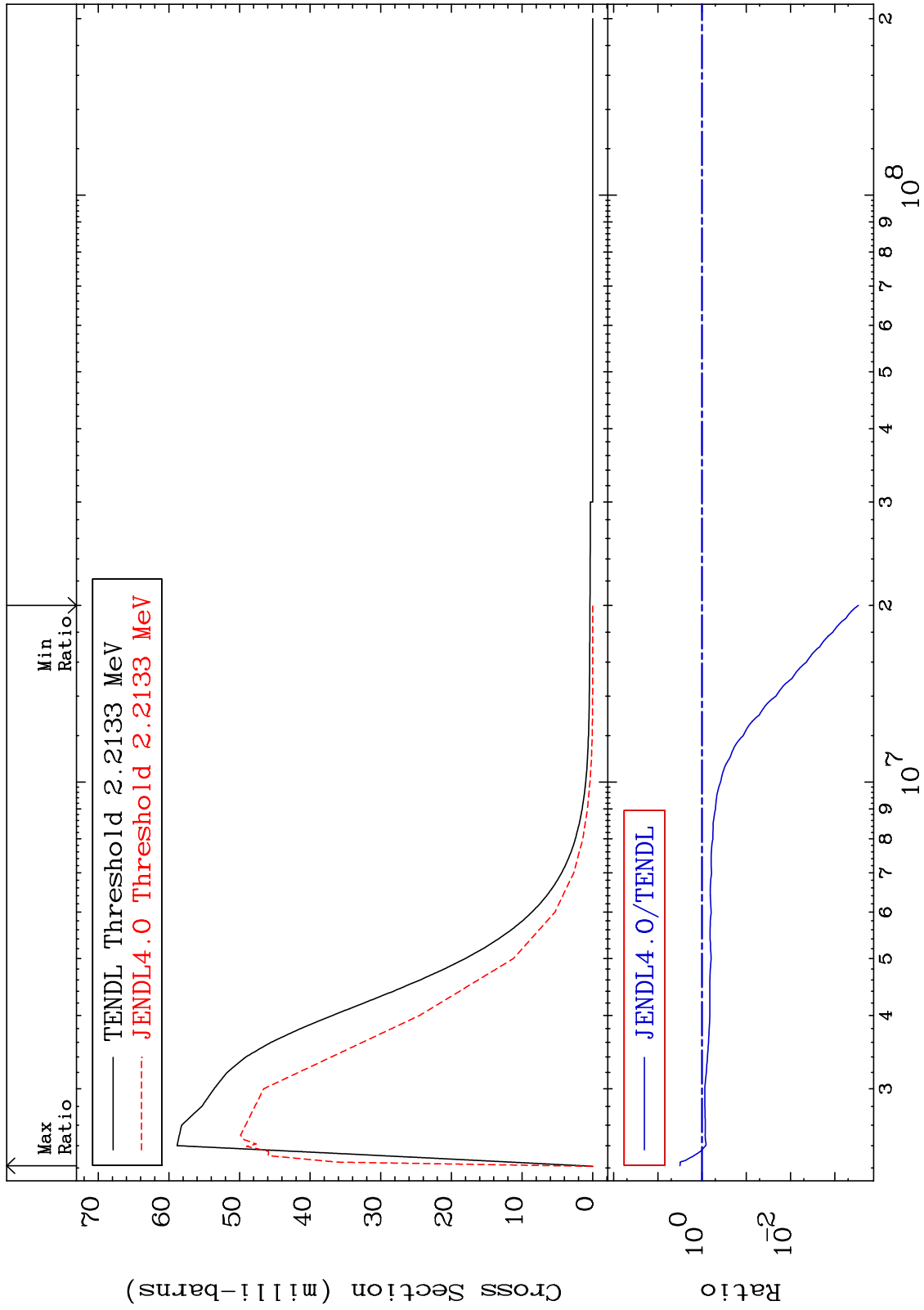
22-Ti-47
5.035 To 1973. %



MAT 2228

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

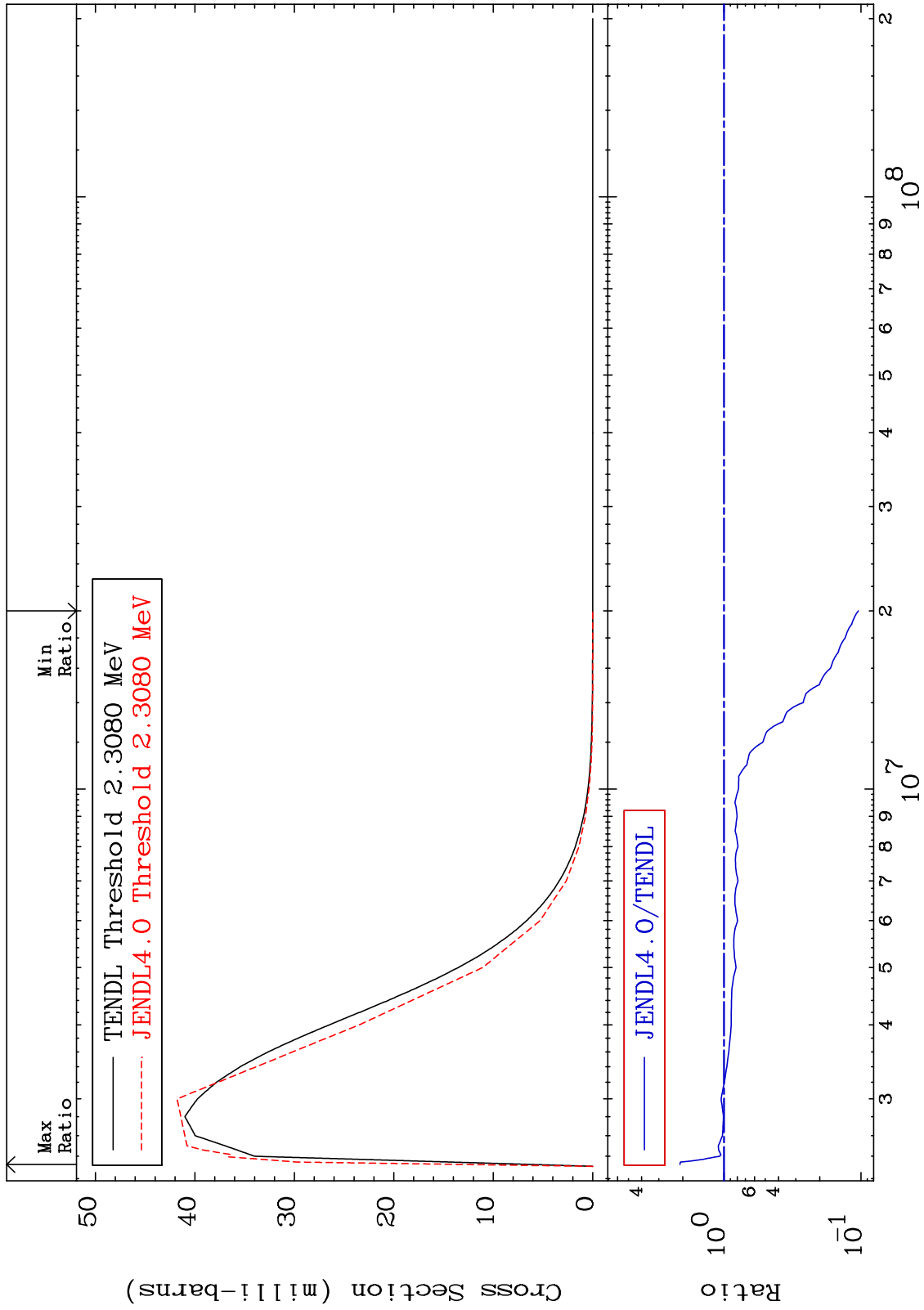
22-Ti-47
-99.97 To 214.9 %



MAT 2228

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

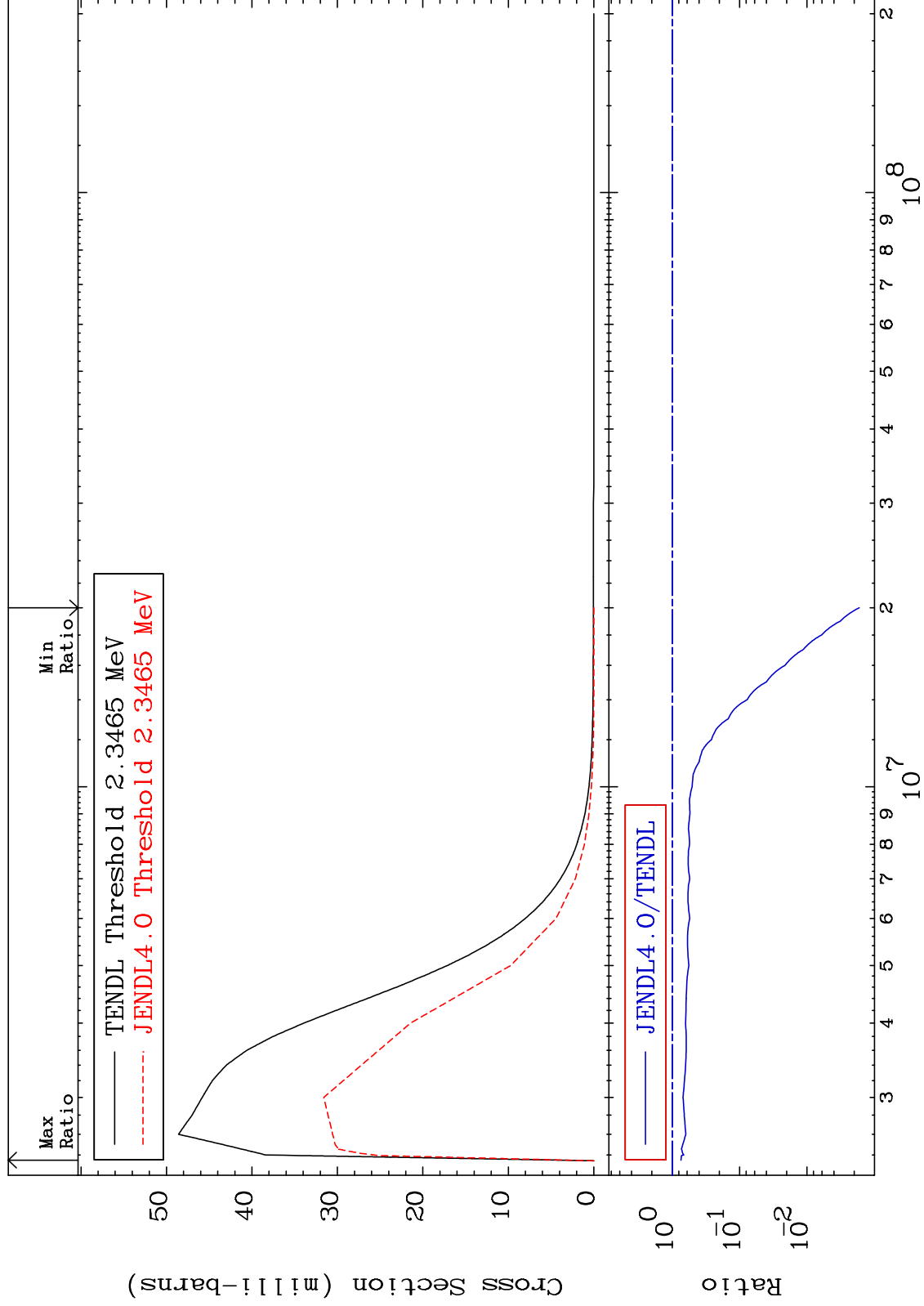
22-Ti-47
-89.56 To 109.8 %



MAT 2228

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

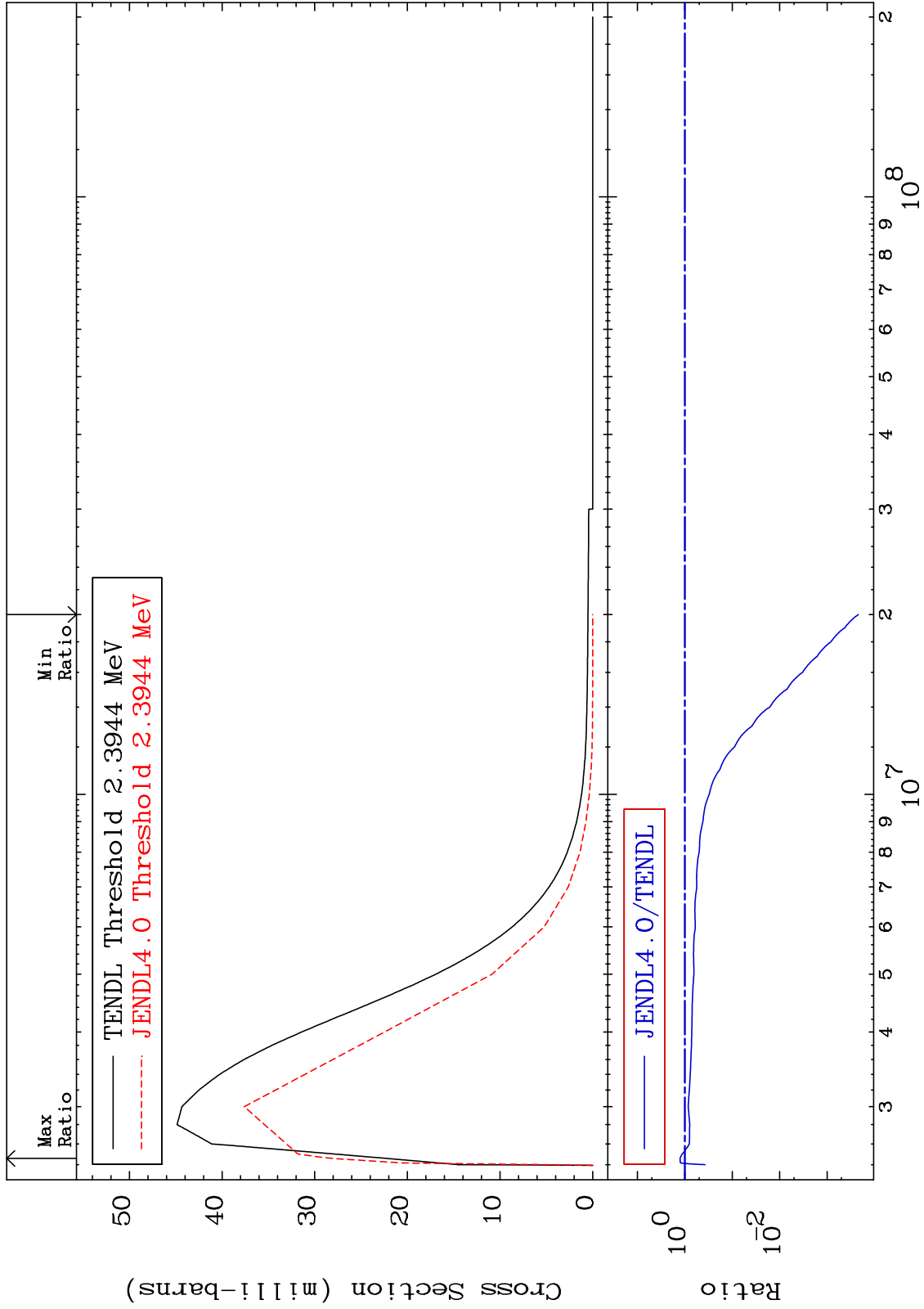
22-Ti-47
-99.83 To -26.17%



MAT 2228

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

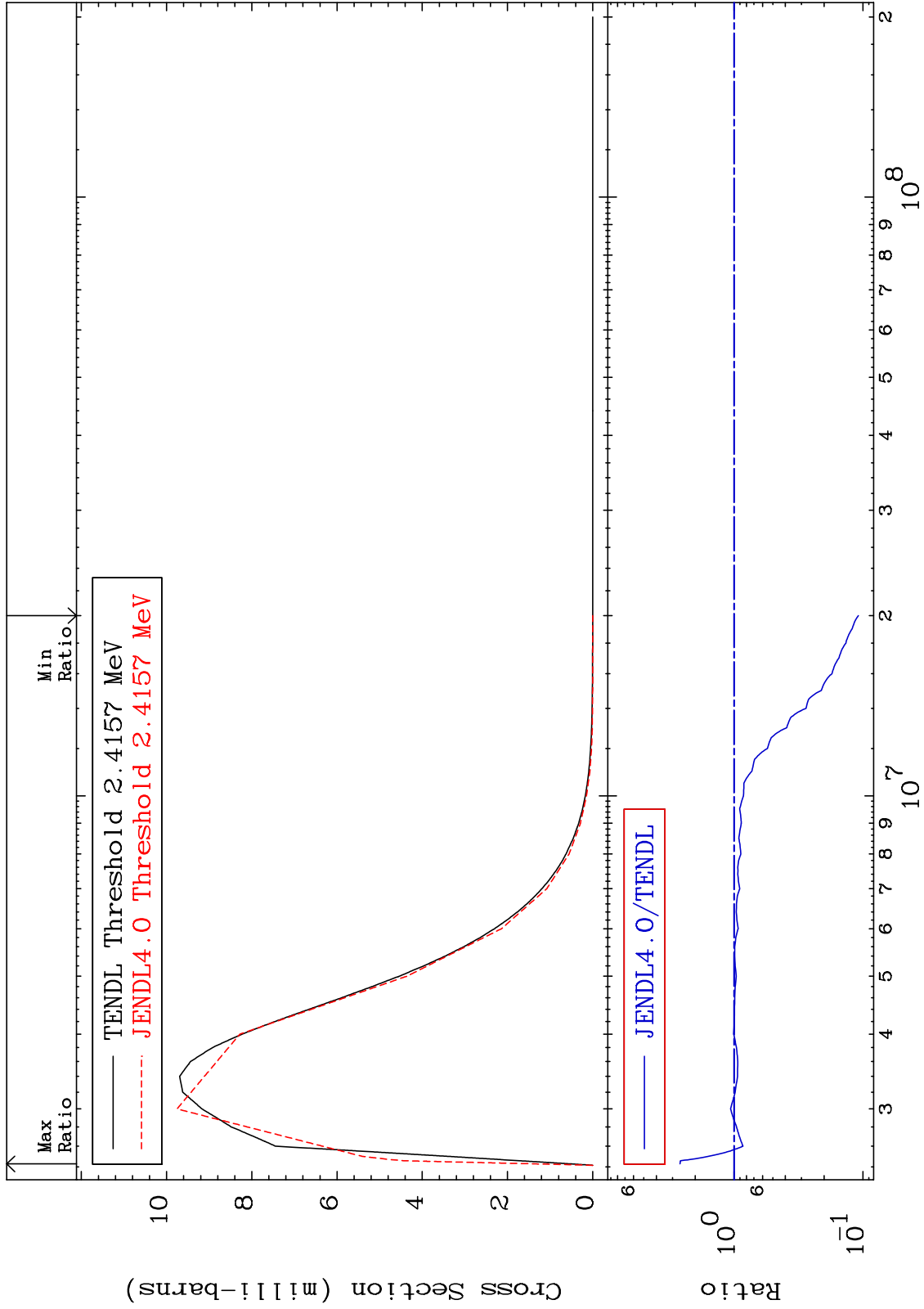
22-Ti-47
-99.98 To 26.48 %



MAT 2228

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

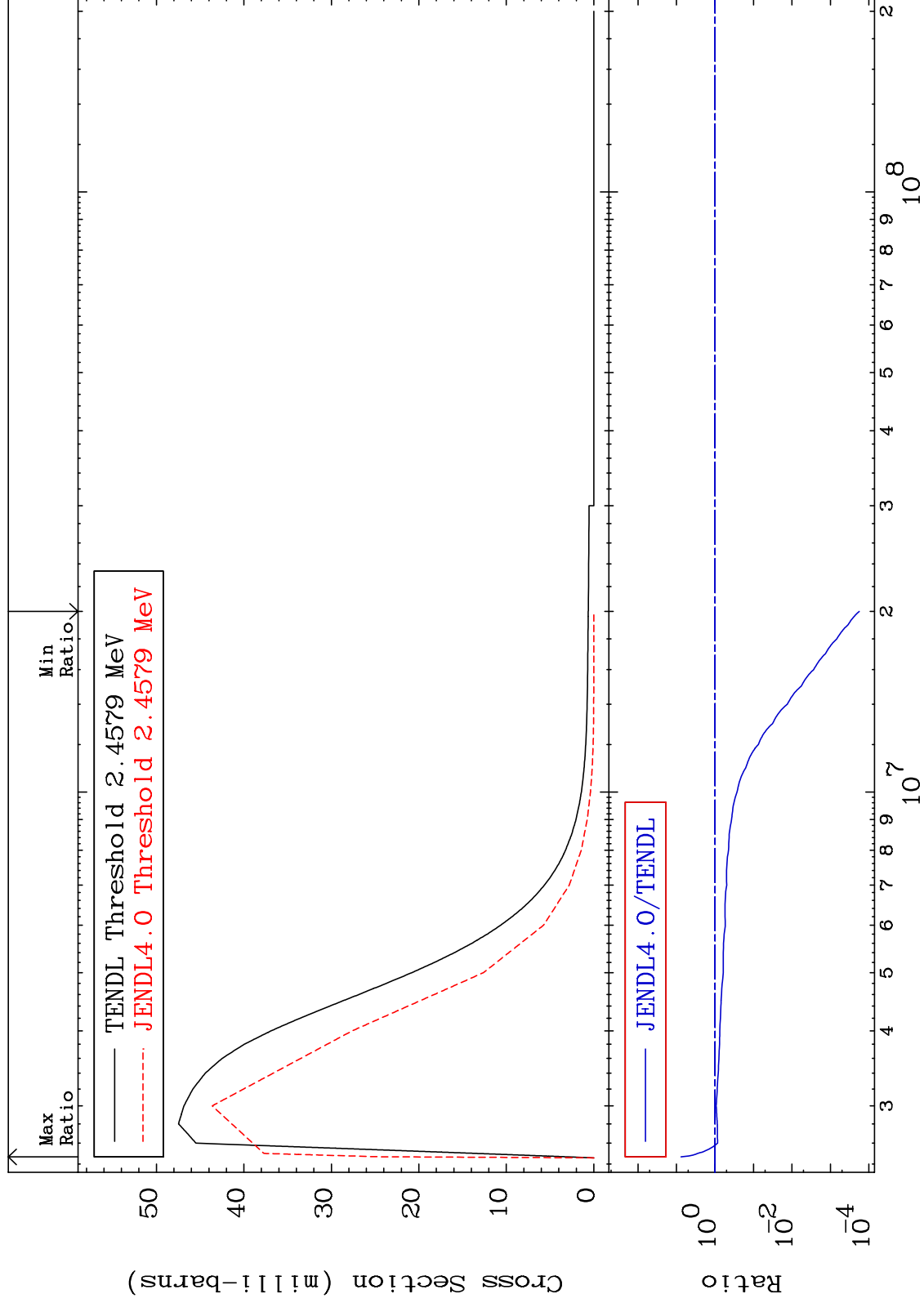
22-Ti-47
-89.14 To 162.0 %



MAT 2228

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

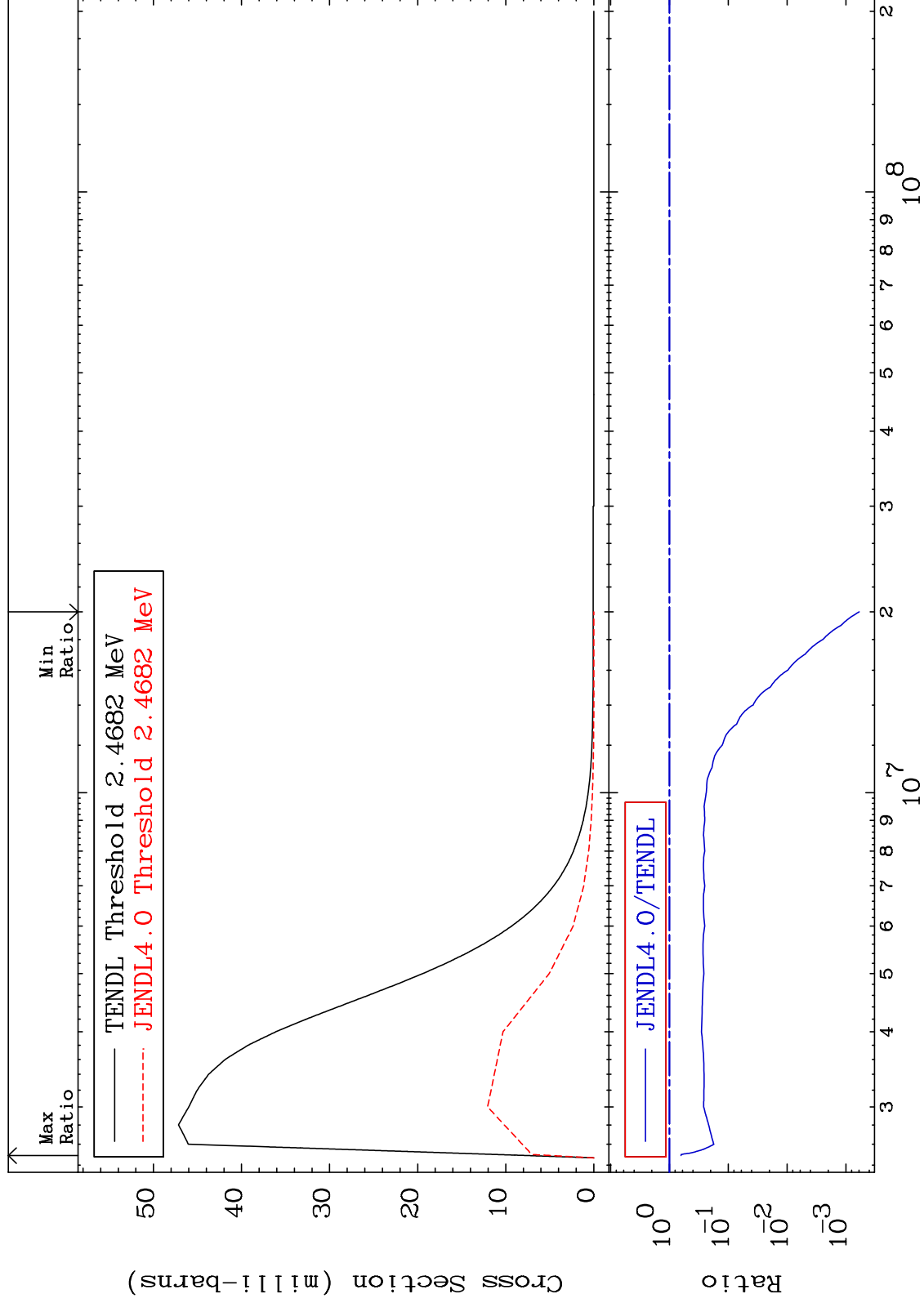
22-Ti-47
-99.98 To 661.5 %



MAT 2228

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

22-Ti-47
-99.94 To -36.49%



22

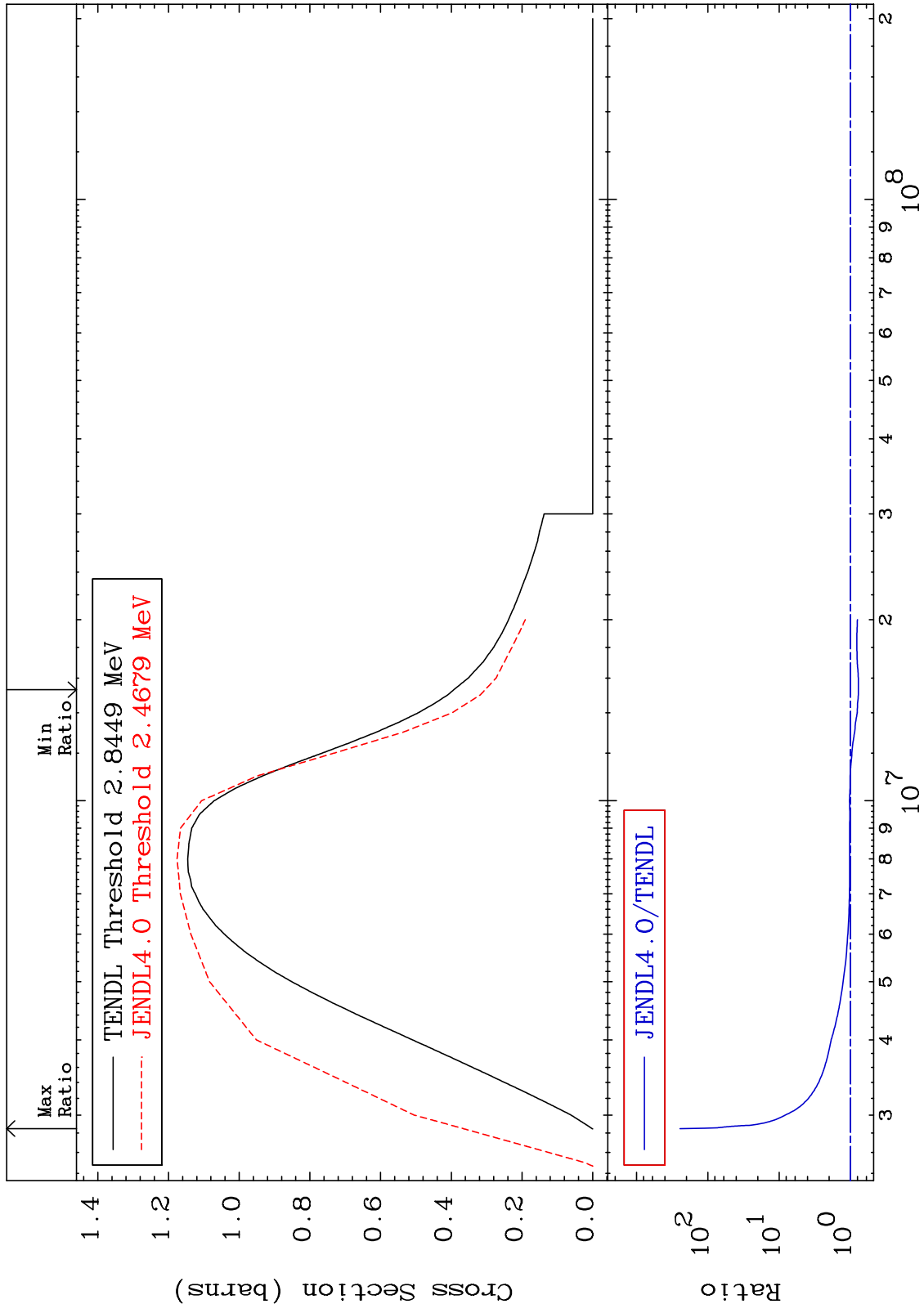
Incident Energy (eV)

22-Ti-47

MAT 2228

(n,n') Continuum
Cross Section

22-Ti-47
-22.51 To 9999. %



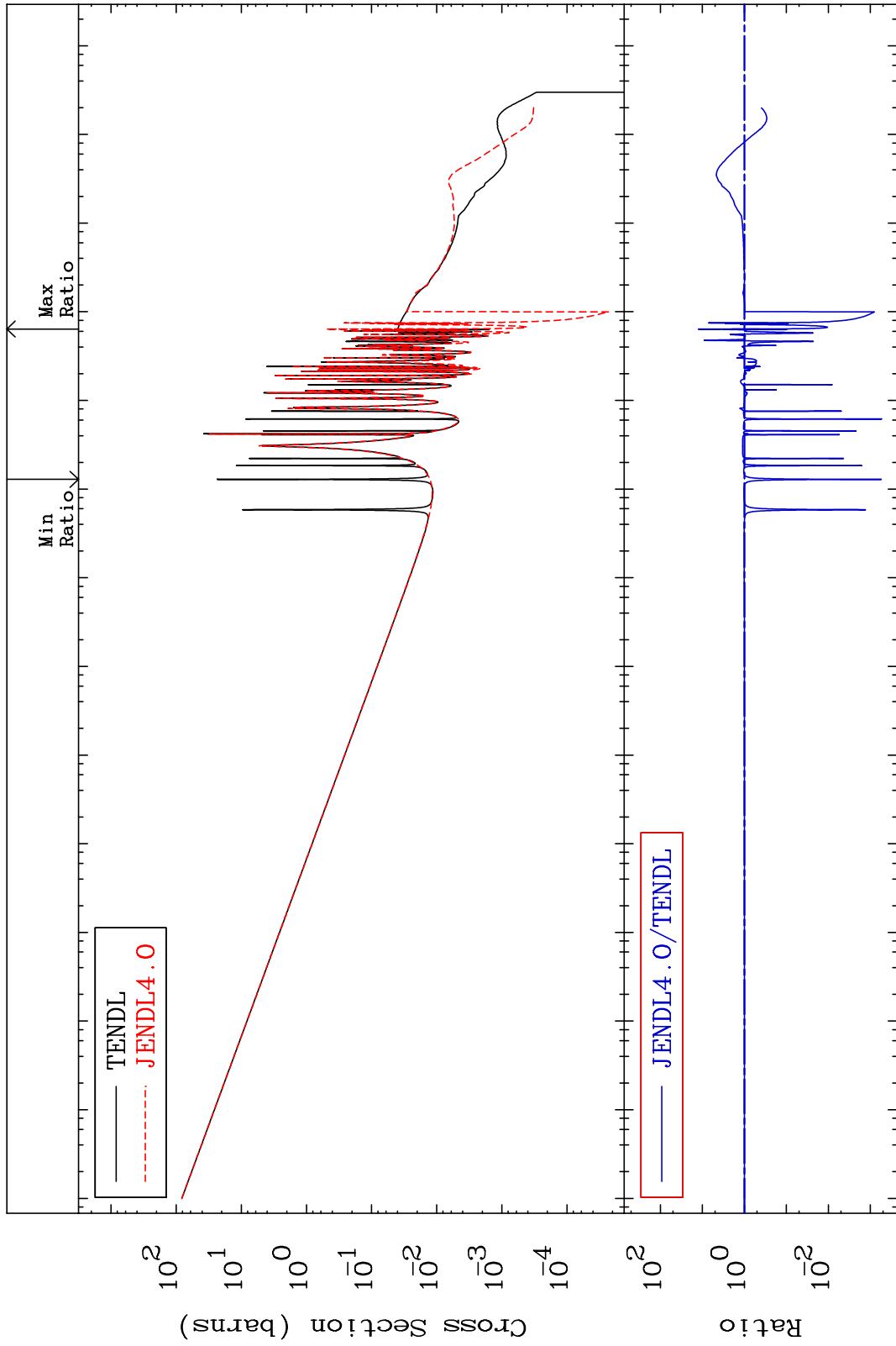
MAT 2228

(n, γ)

22-Ti-47

Cross Section

-99.95 To 1146. %



Incident Energy (eV) 22-Ti-47

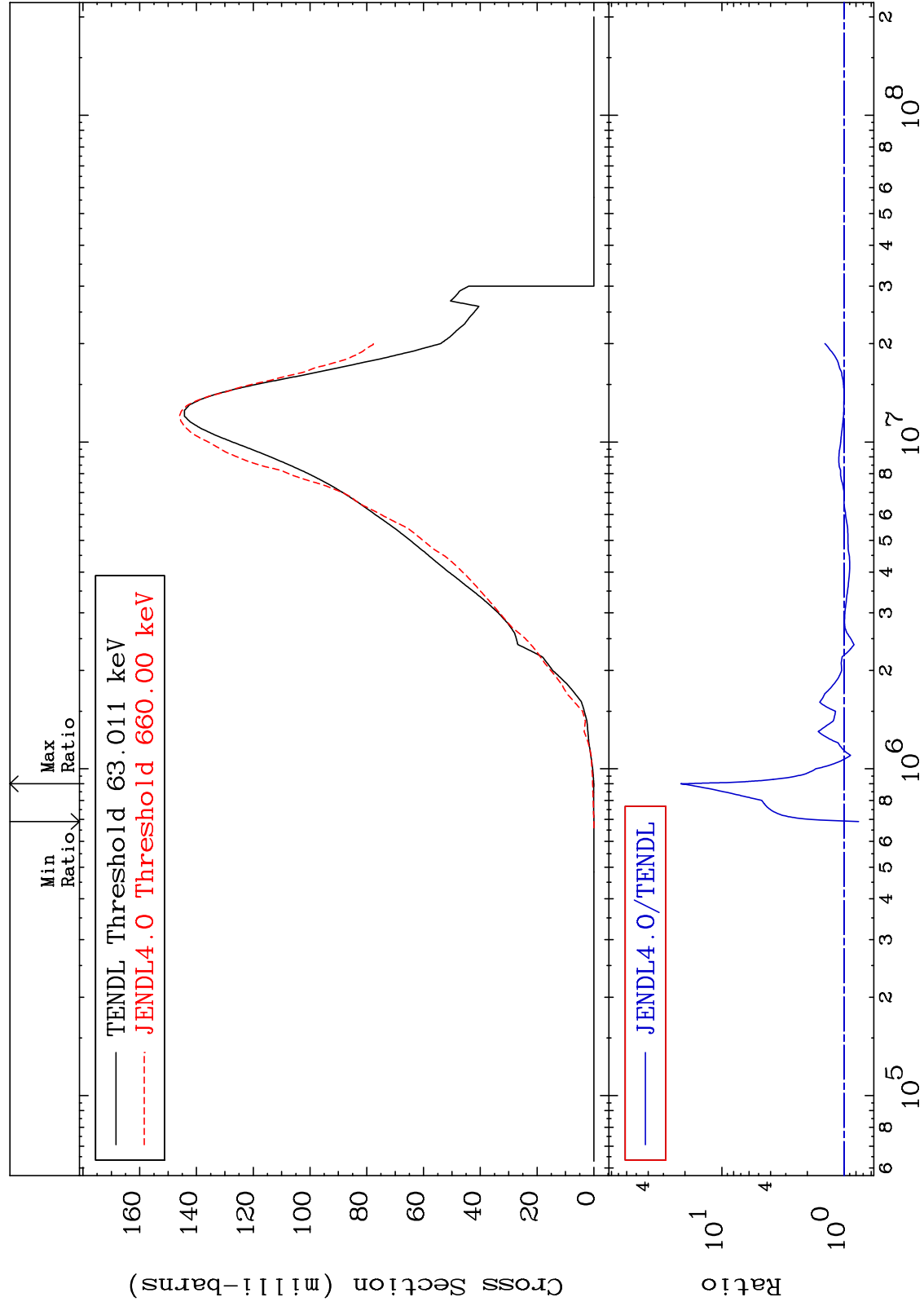
MAT 2228

(n,p)

22-Ti-47

Cross Section

-23.94 To 2062. %



25

22-Ti-47

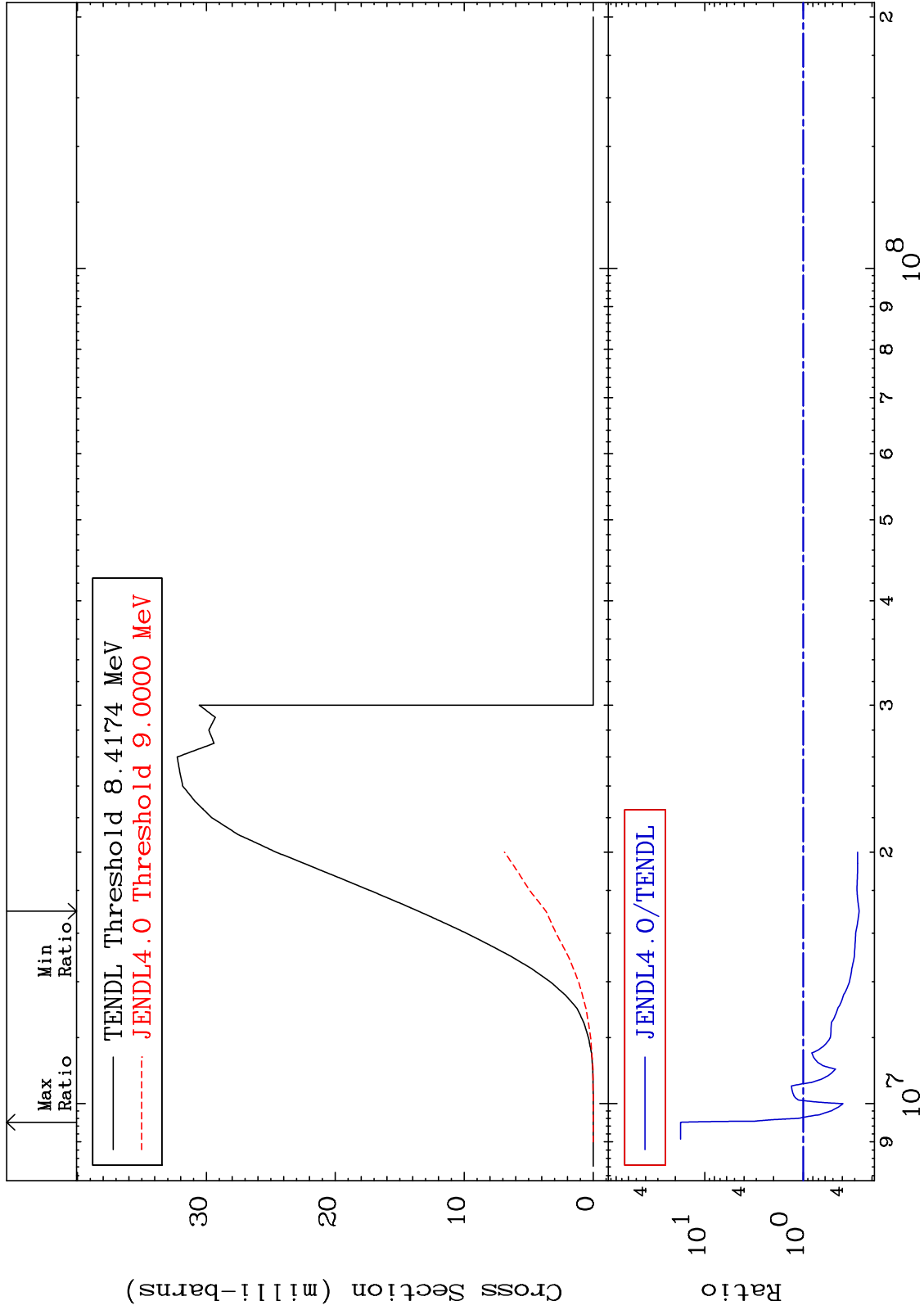
MAT 2228

(n,d)

22-Ti-47

Cross Section

-72.98 To 1665. %



26

22-Ti-47

22-Ti-47

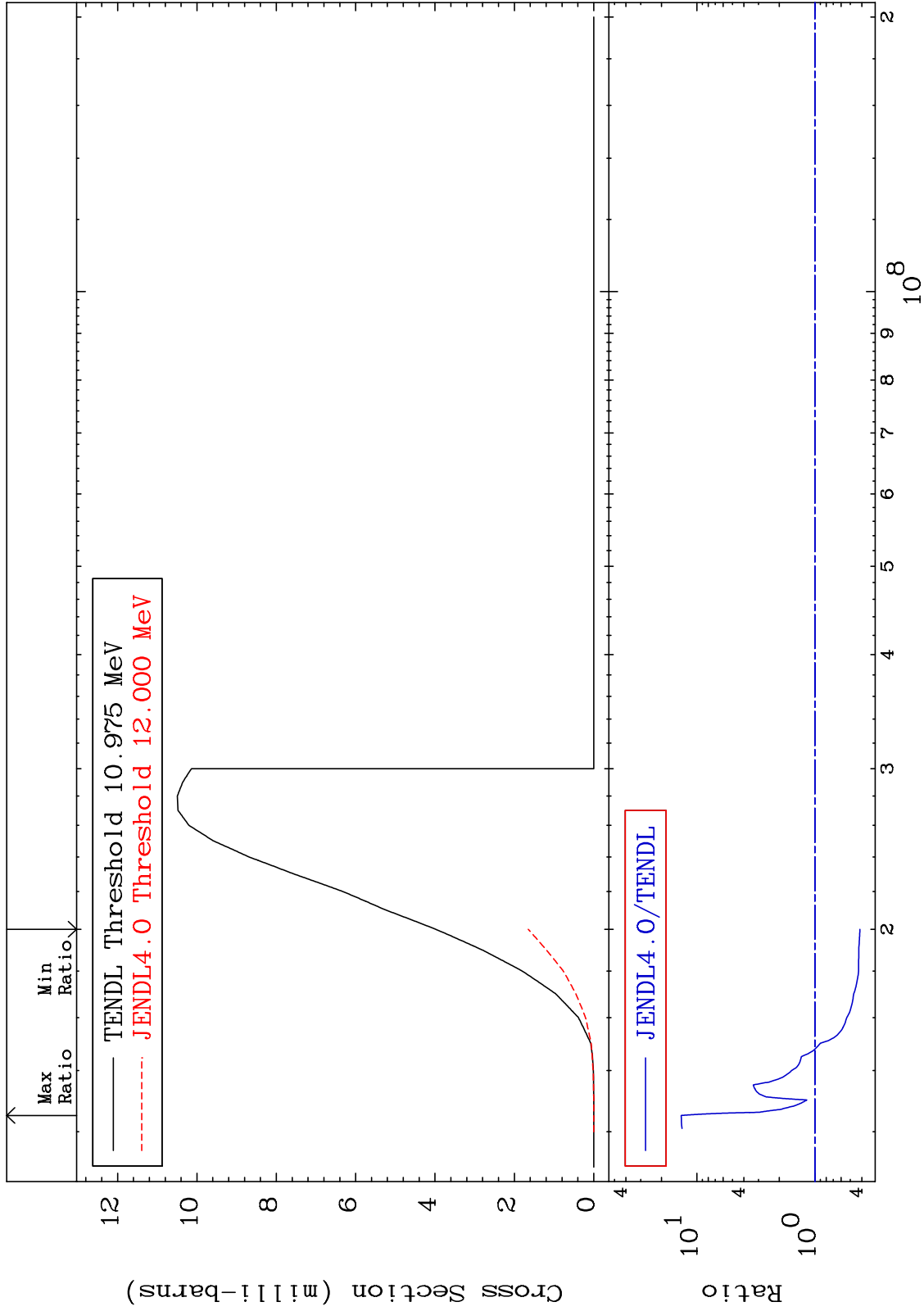
MAT 2228

(n, t)

22-Ti-47

Cross Section

-58.52 To 1259. %



27

Incident Energy (eV)

22-Ti-47

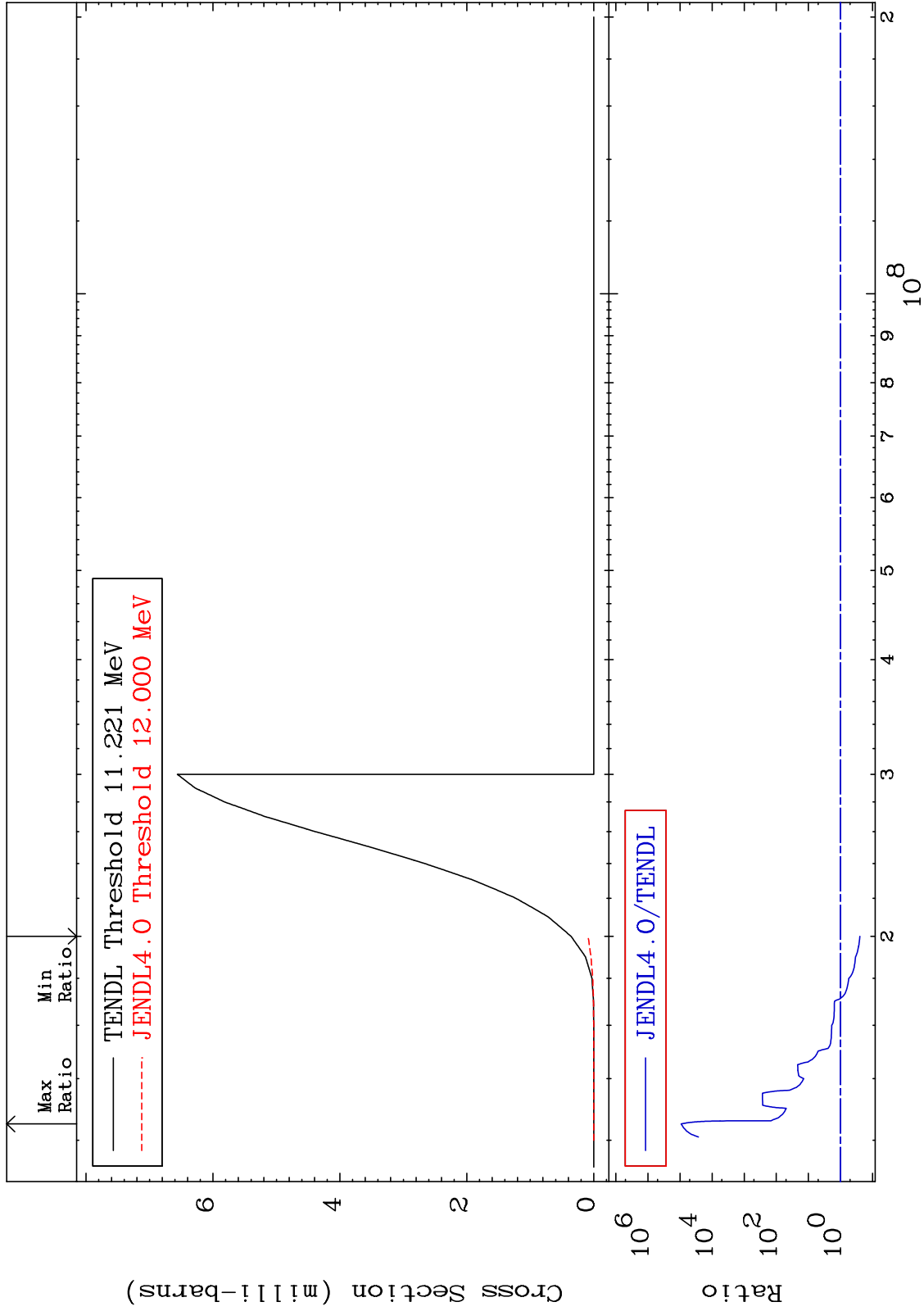
MAT 2228

(n, He-3)

22-Ti-47

Cross Section

-75.21 To 9999. %



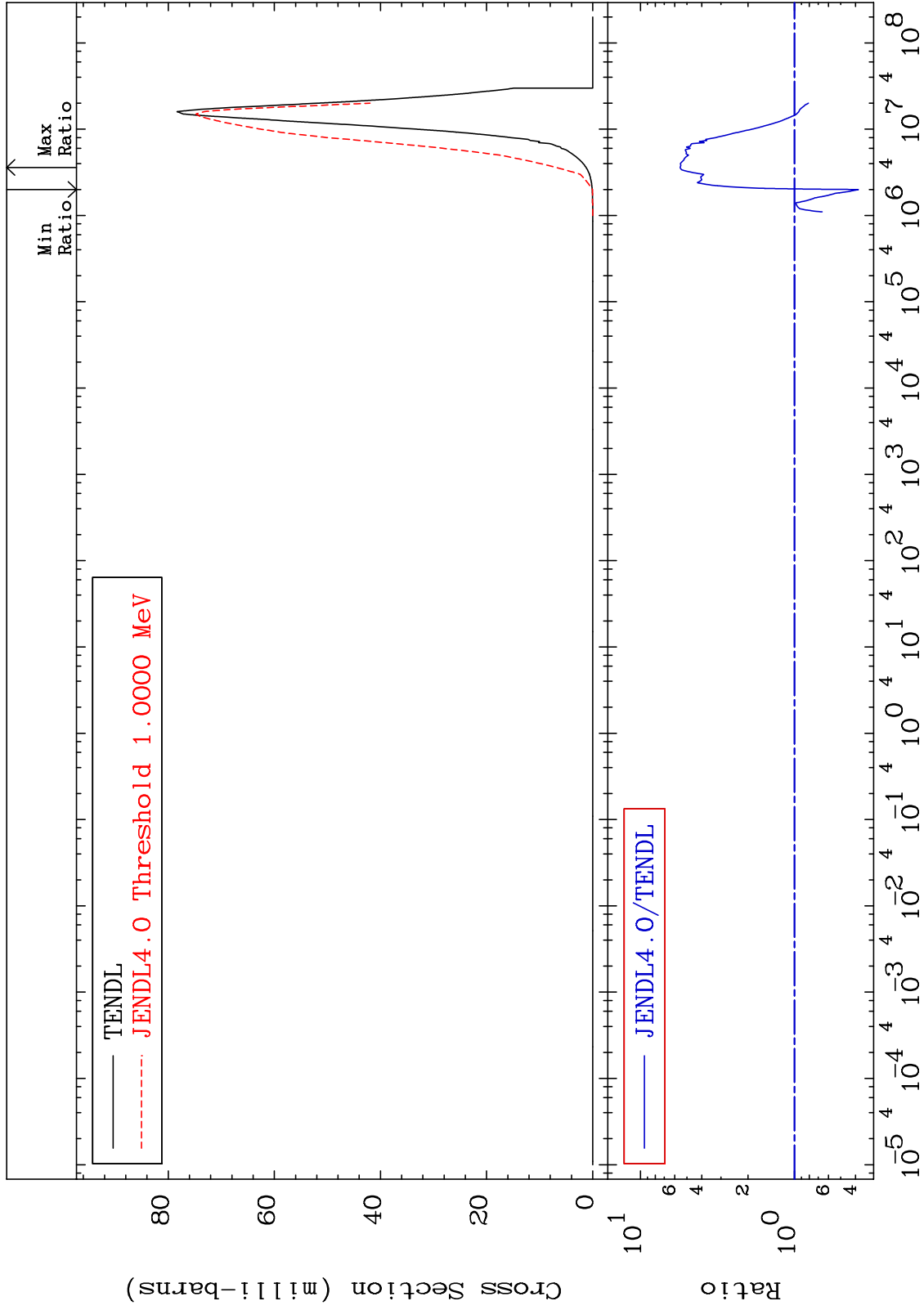
MAT 2228

(n, α)

22-Ti-47

Cross Section

-61.64 To 453.6 %



29

Incident Energy (eV)

22-Ti-47

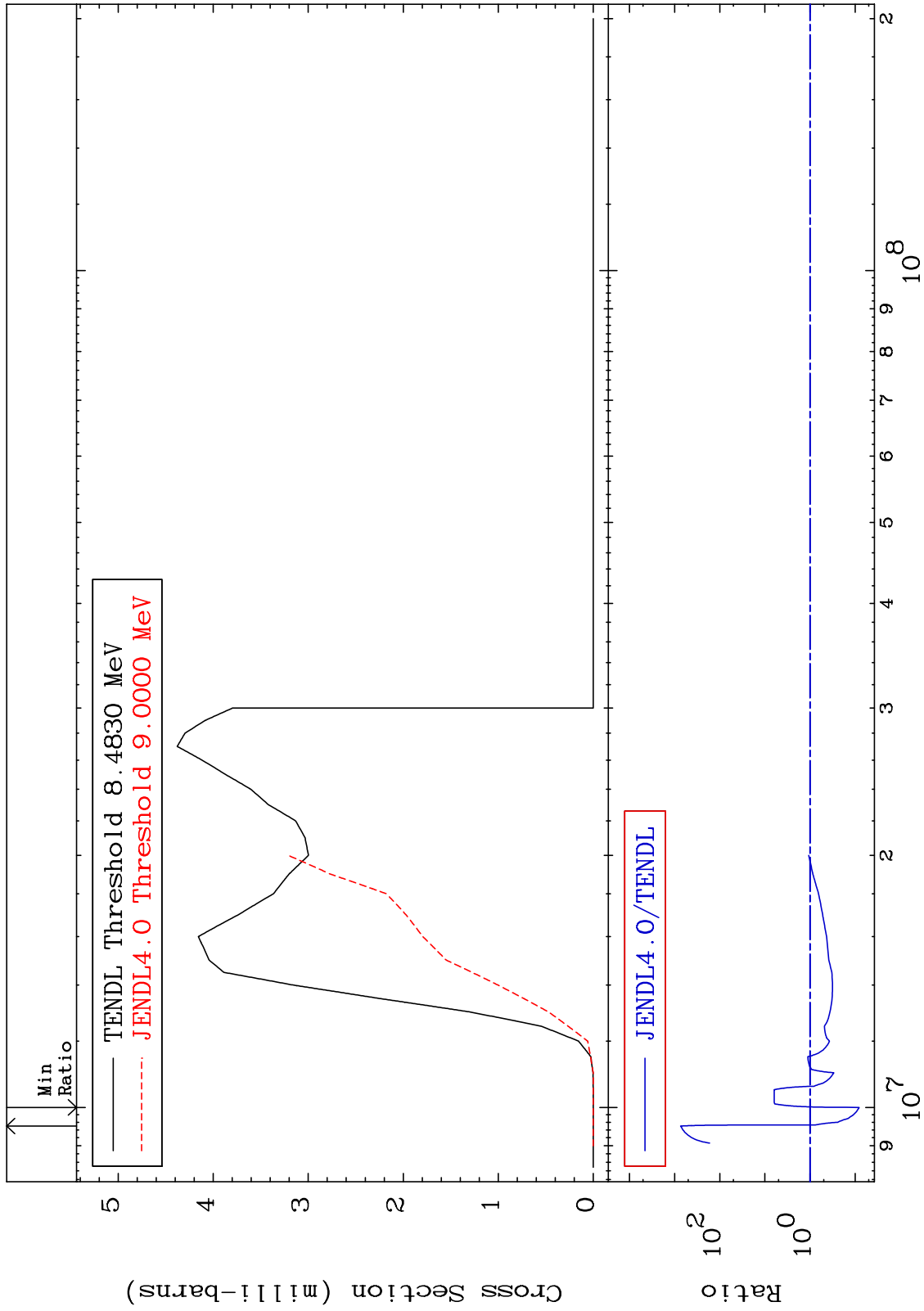
MAT 2228

(n,2p)

22-Ti-47

Cross Section

-91.83 To 9999. %



30

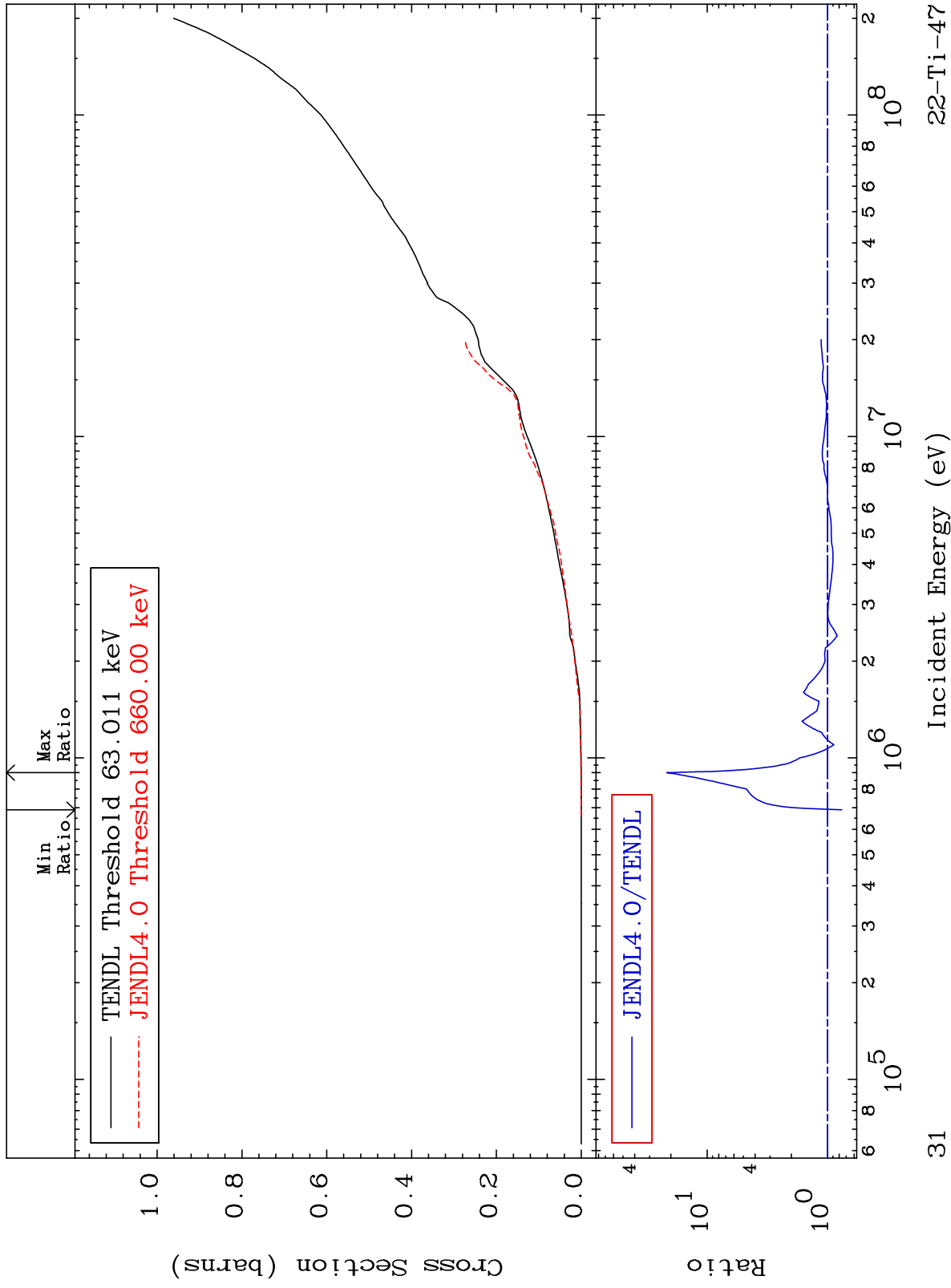
Incident Energy (eV)

22-Ti-47

MAT 2228

Hydrogen Production
Cross Section

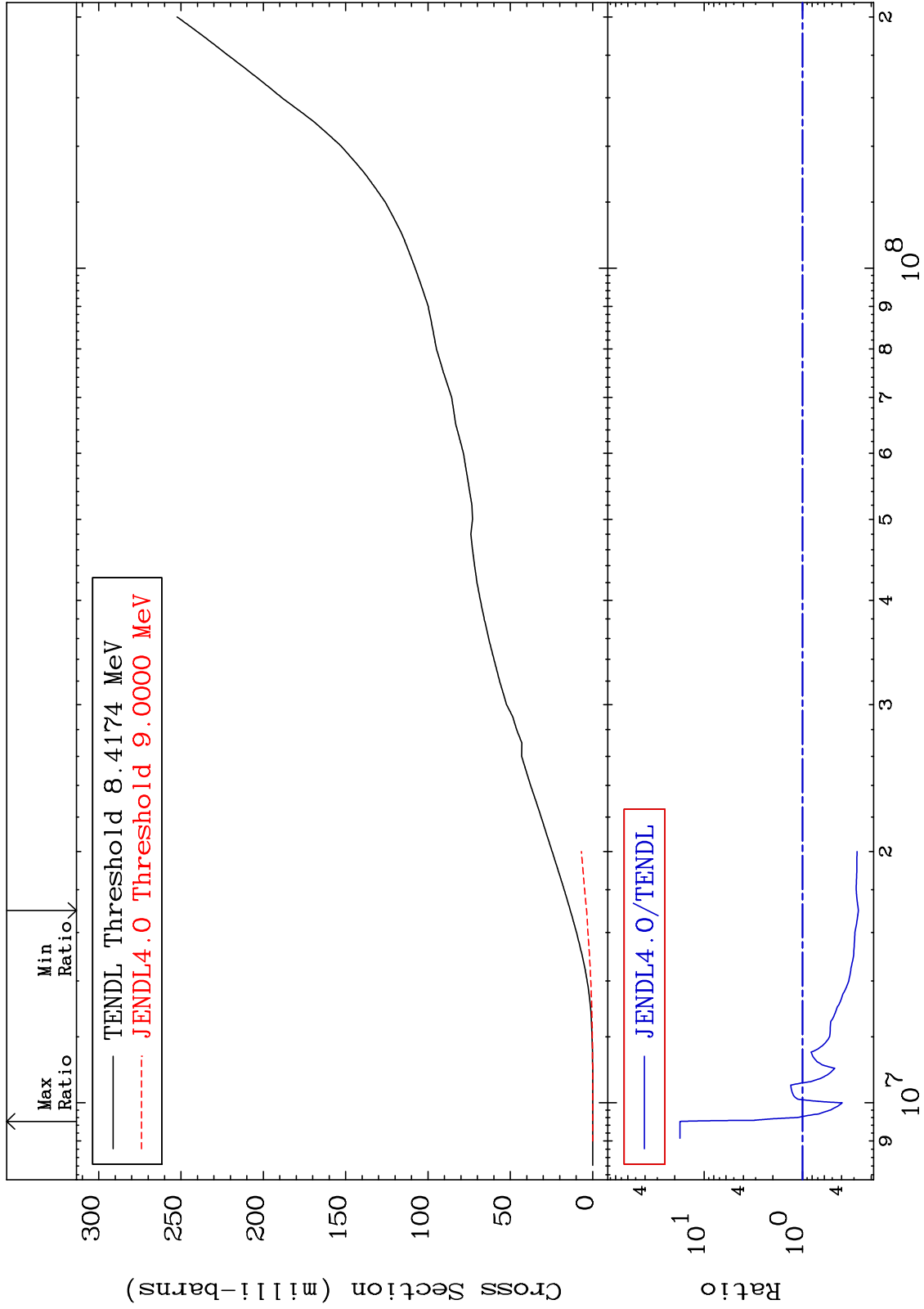
22-Ti-47
-23.94 To 2062. %



MAT 2228

Deuterium Production
Cross Section

²²Ti-47
-72.98 To 1665. %



32

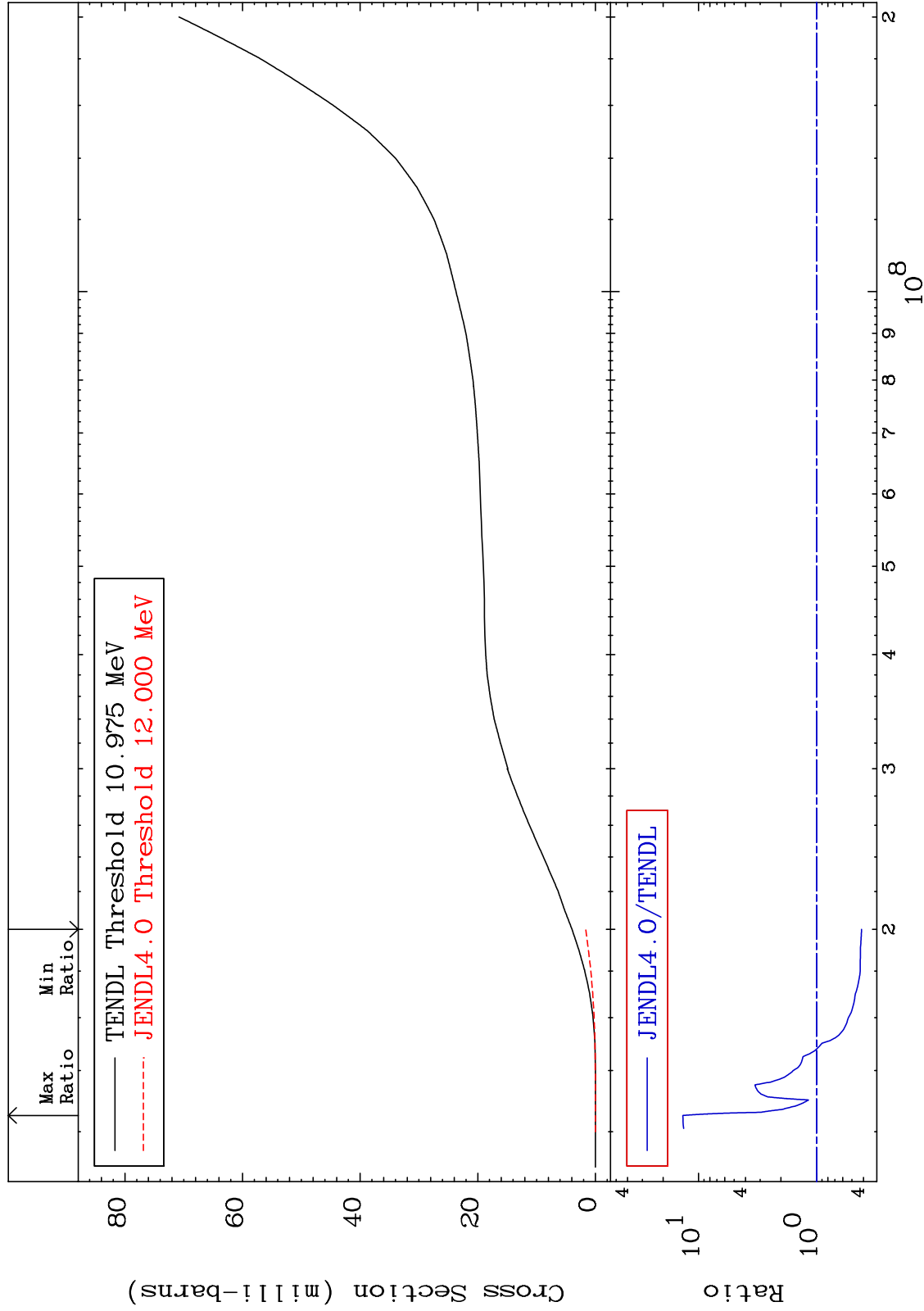
Incident Energy (eV)

²²Ti-47

MAT 2228

Tritium Production
Cross Section

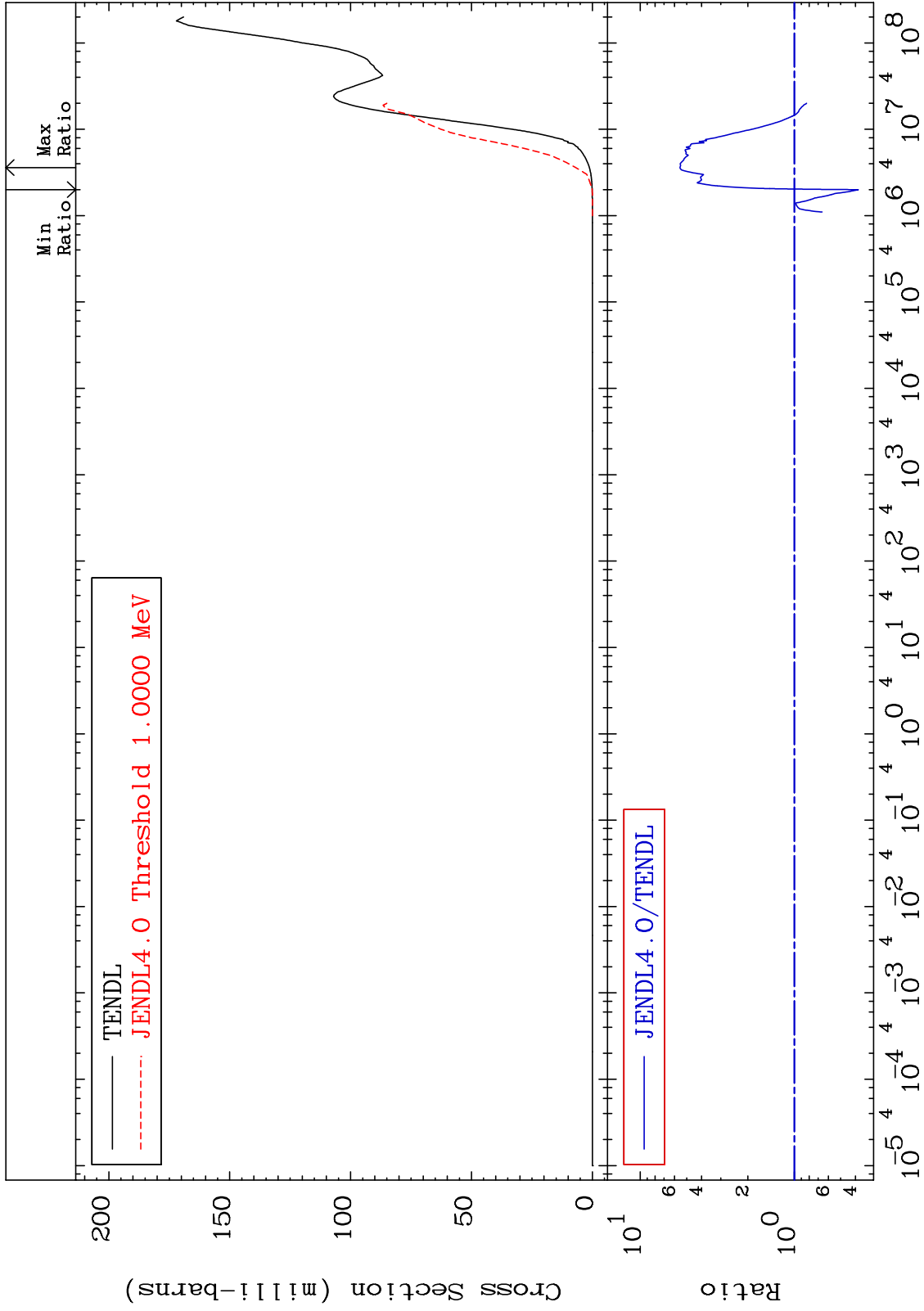
22-Ti-47
-58.52 To 1259. %



MAT 2228

He-4 Production
Cross Section

22-Ti-47
-61.64 To 453.6 %



35

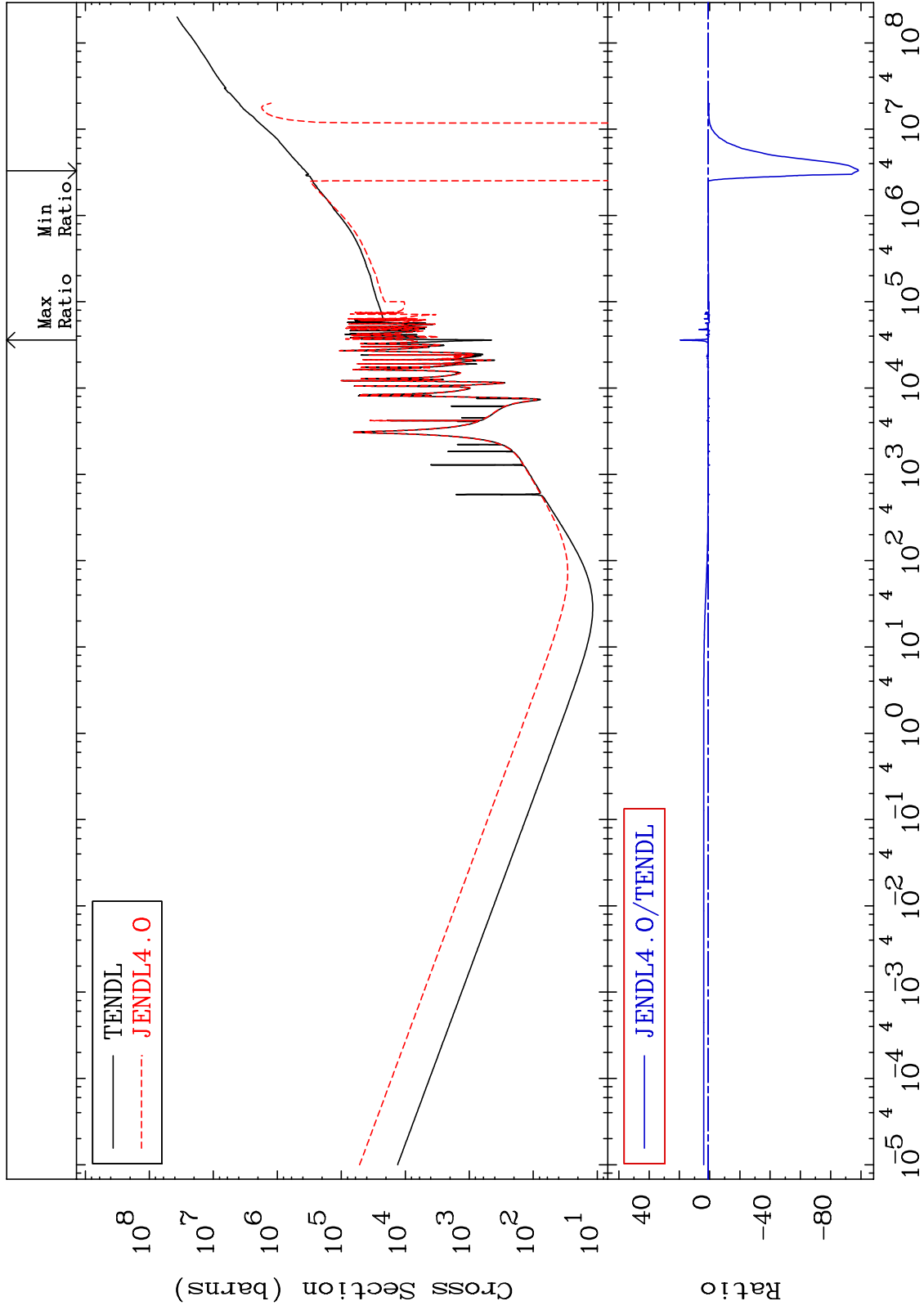
Incident Energy (eV)

22-Ti-47

MAT 2228

Kerma total (eV-barns)
Cross Section

22-Ti-47
-9937. To 1858. %



36

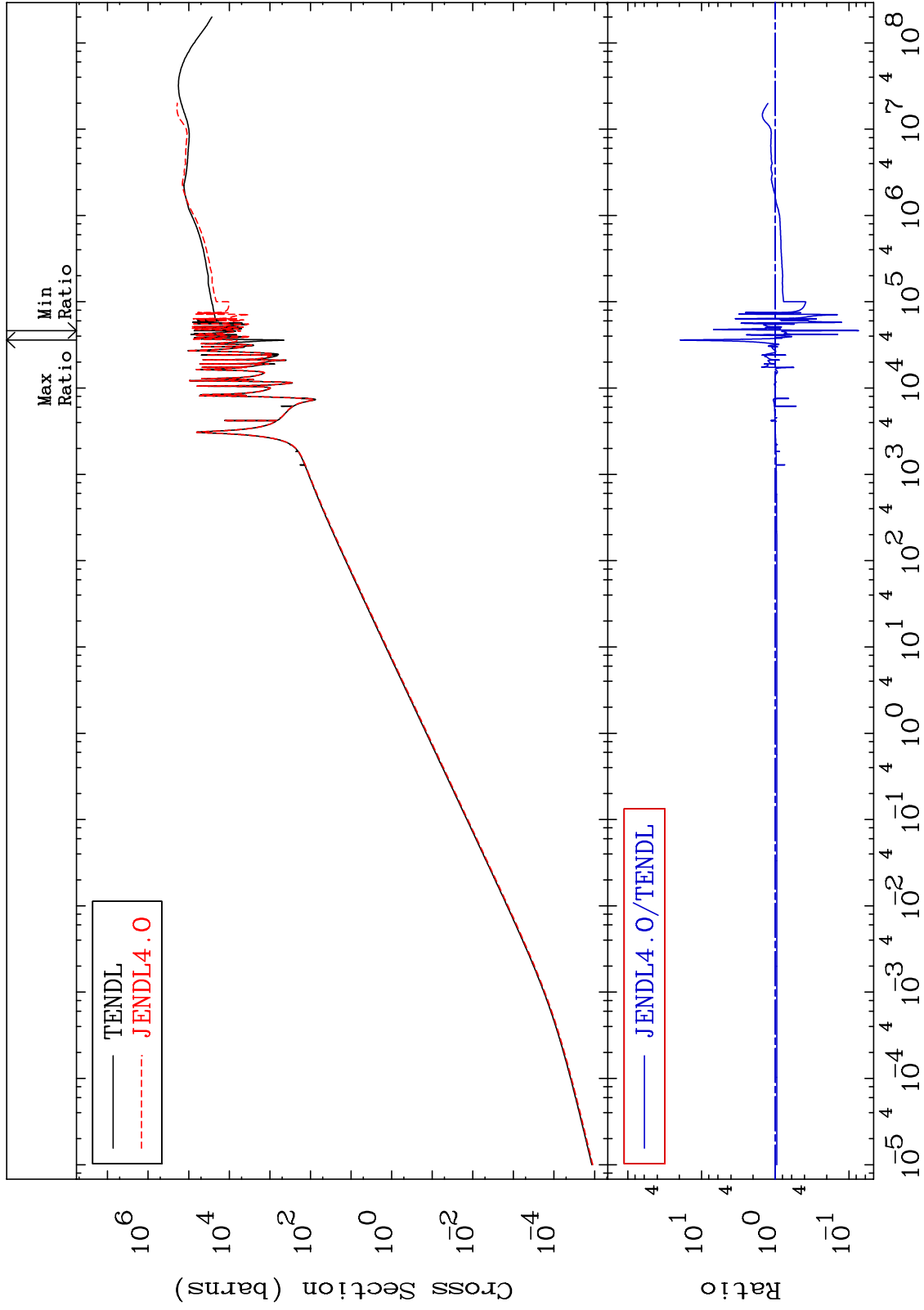
Incident Energy (eV)

22-Ti-47

MAT 2228

Kerma elastic
Cross Section

22-Ti-47
-92.55 To 1861. %



37

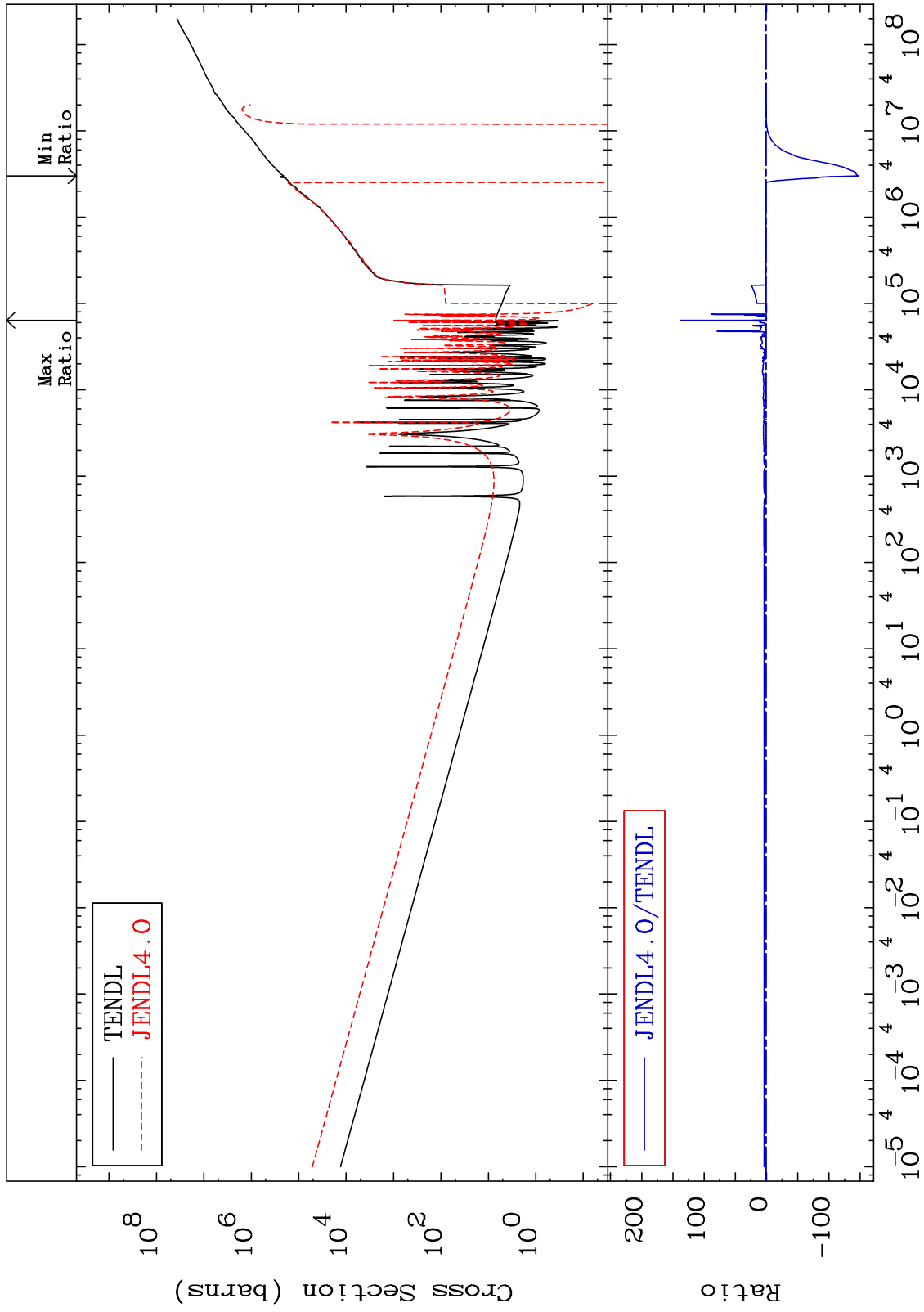
Incident Energy (eV)

22-Ti-47

MAT 2228

Kerma non-elastic (all but mt2)
Cross Section

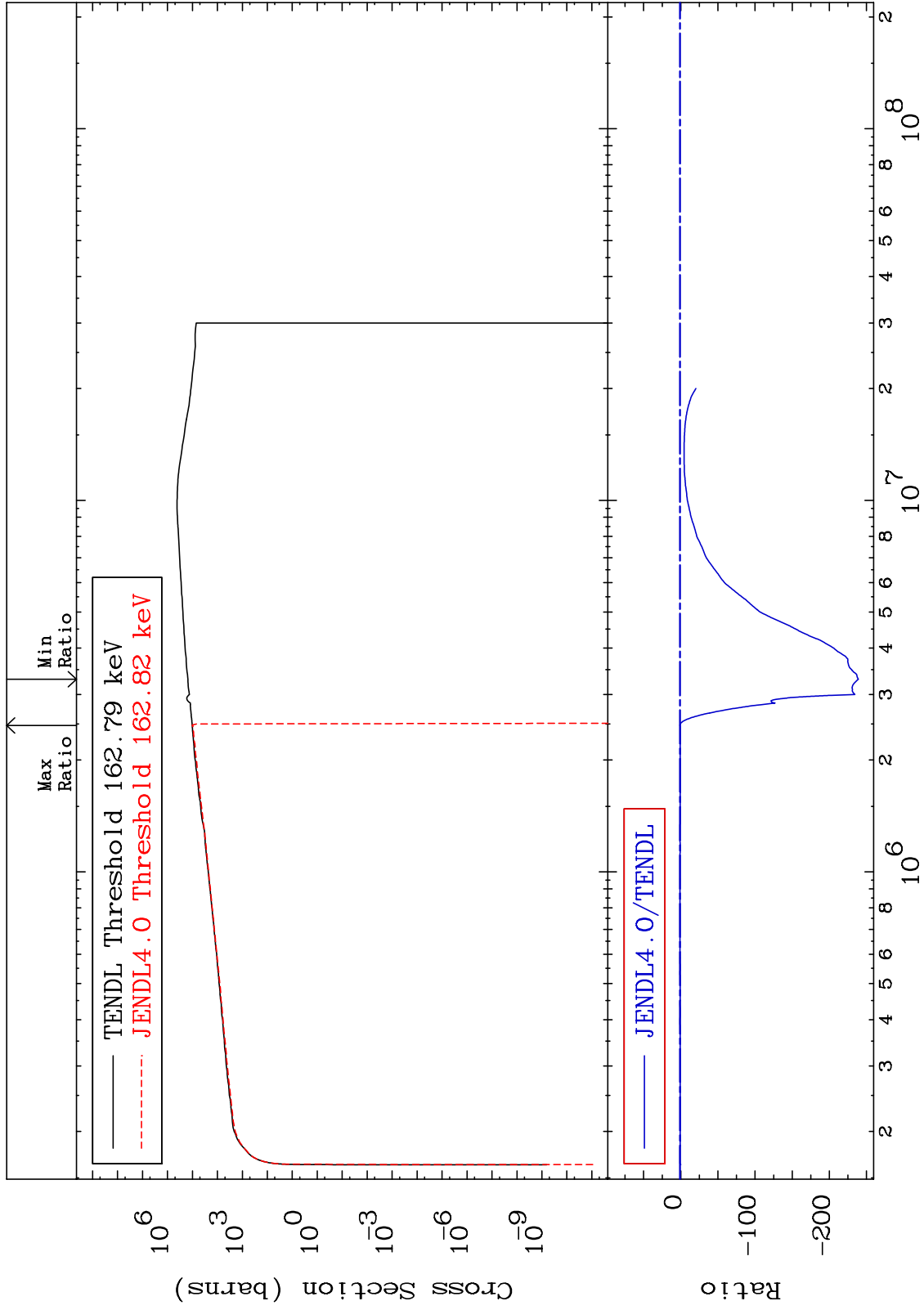
22-Ti-47
-9999. To 9999. %



38

Incident Energy (eV)

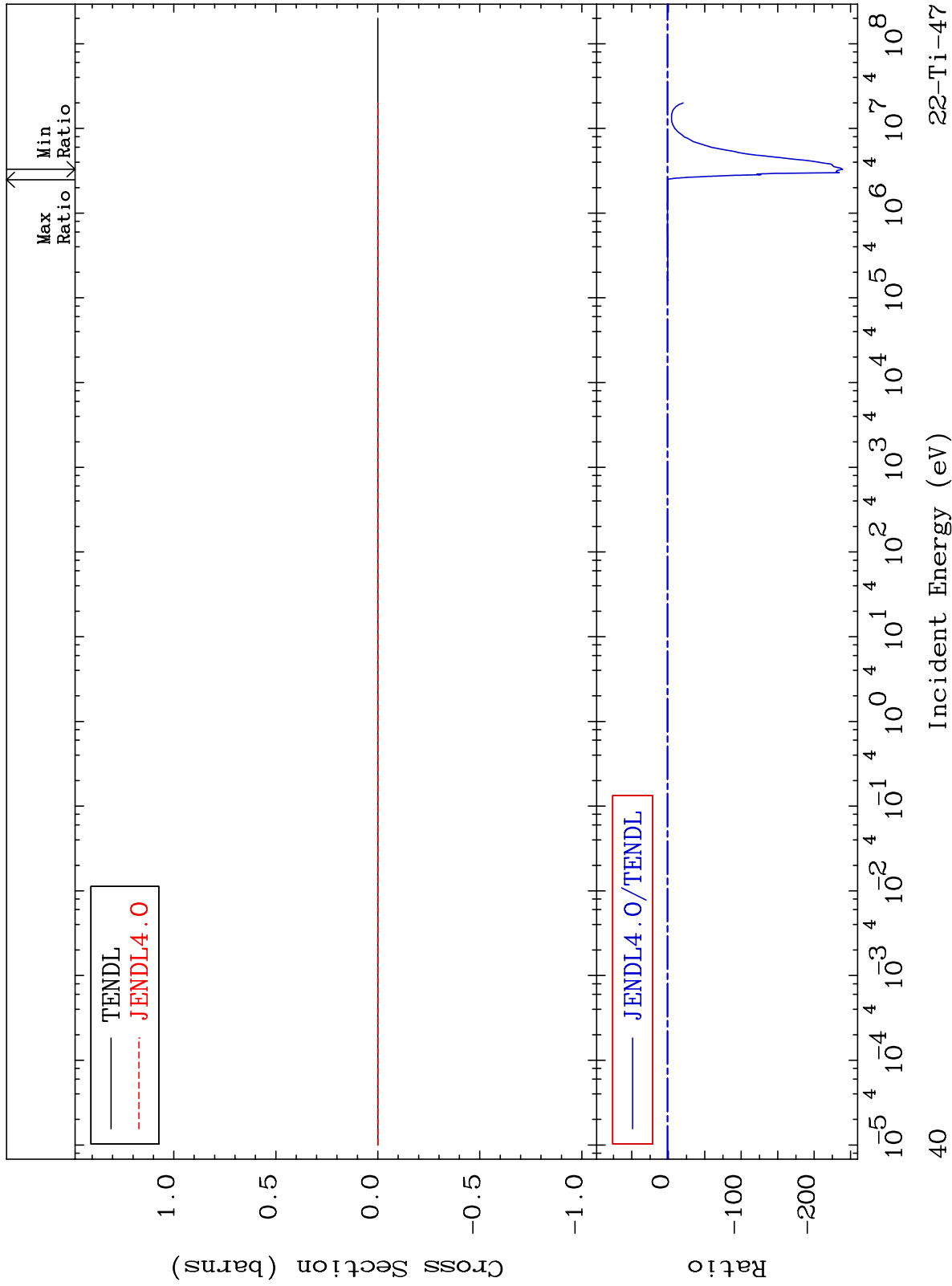
22-Ti-47



MAT 2228

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

22-Ti-47
-9999. To 1.155 %



22-Ti-47

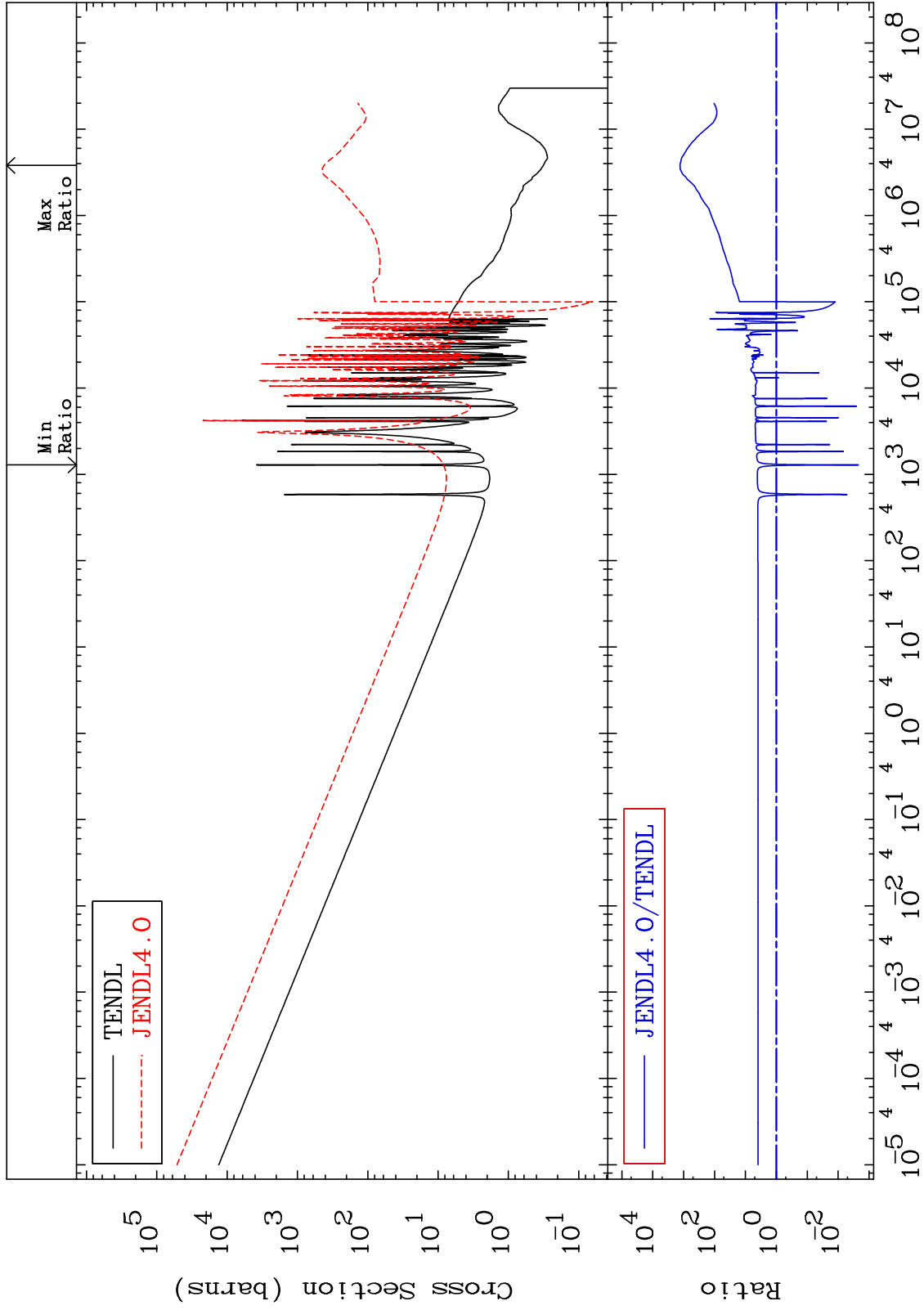
Incident Energy (eV)

40

MAT 2228

Kerma capture (mt102)
Cross Section

22-Ti-47
-99.78 To 9999. %



41

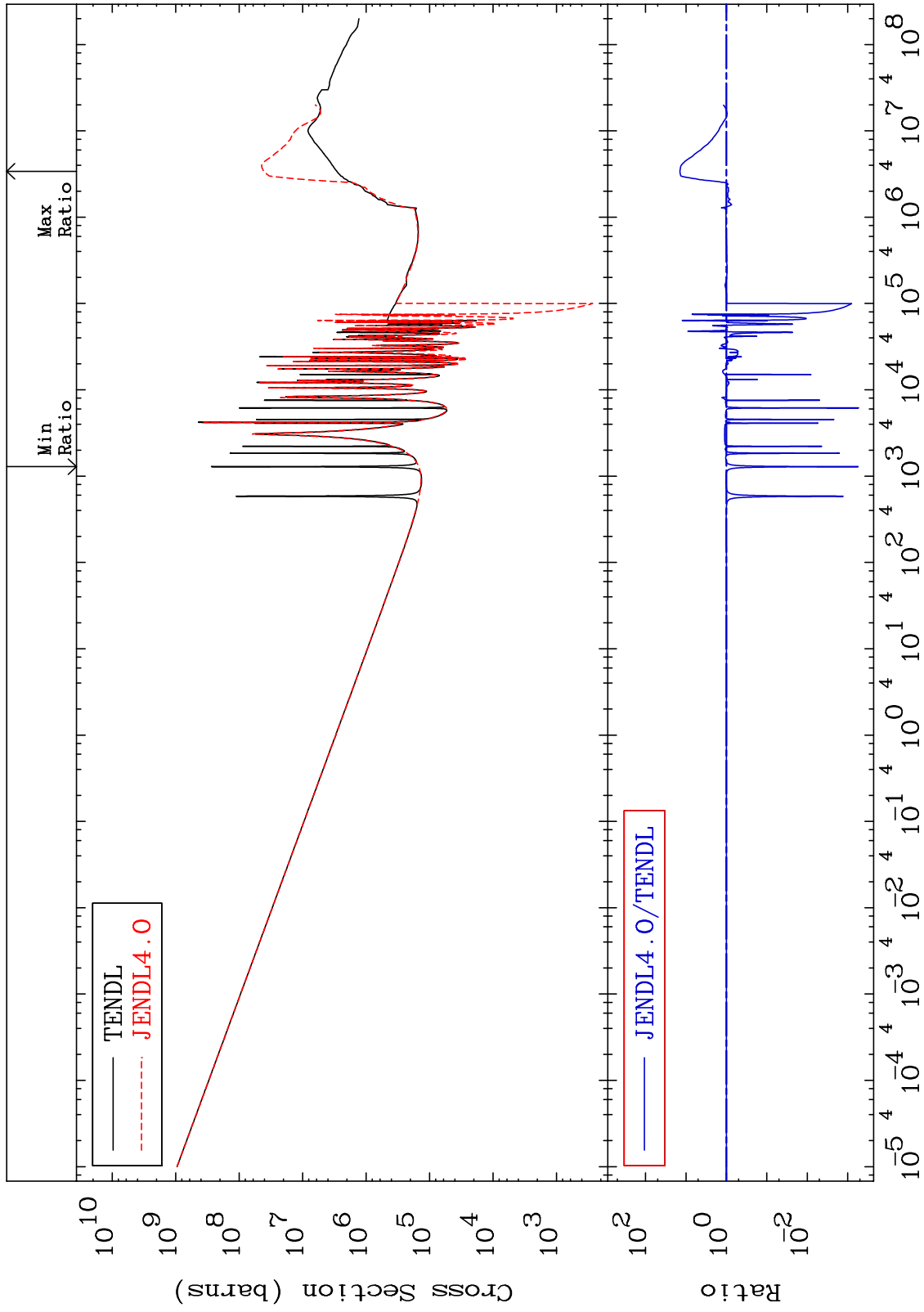
Incident Energy (eV)

22-Ti-47

MAT 2228

Total photon (eV-barns)
Cross Section

22-Ti-47
-99.95 To 1305. %



42

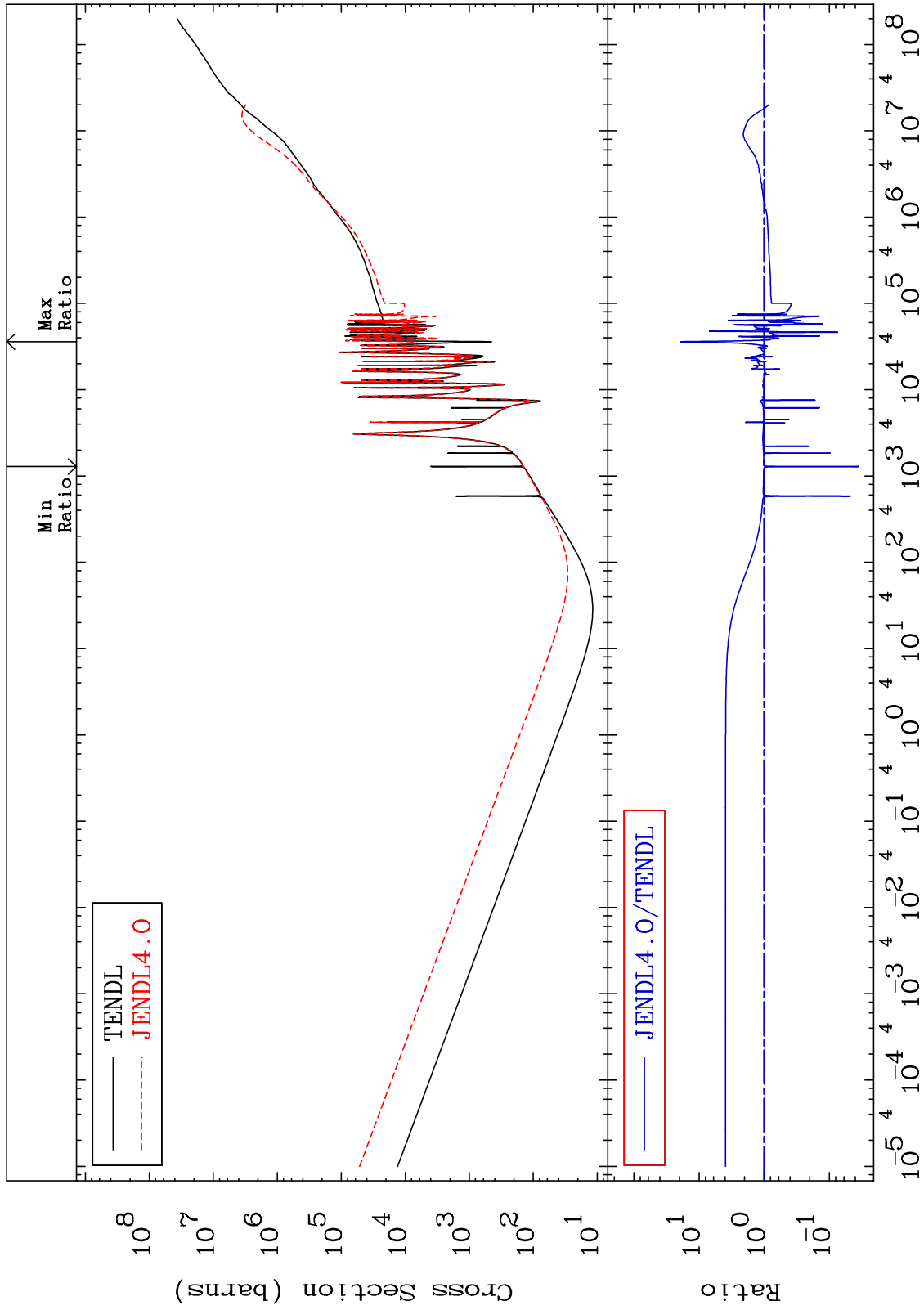
Incident Energy (eV)

22-Ti-47

MAT 2228

Total kinematic kerma (high limit)
Cross Section

22-Ti-47
-96.40 To 1858. %



43

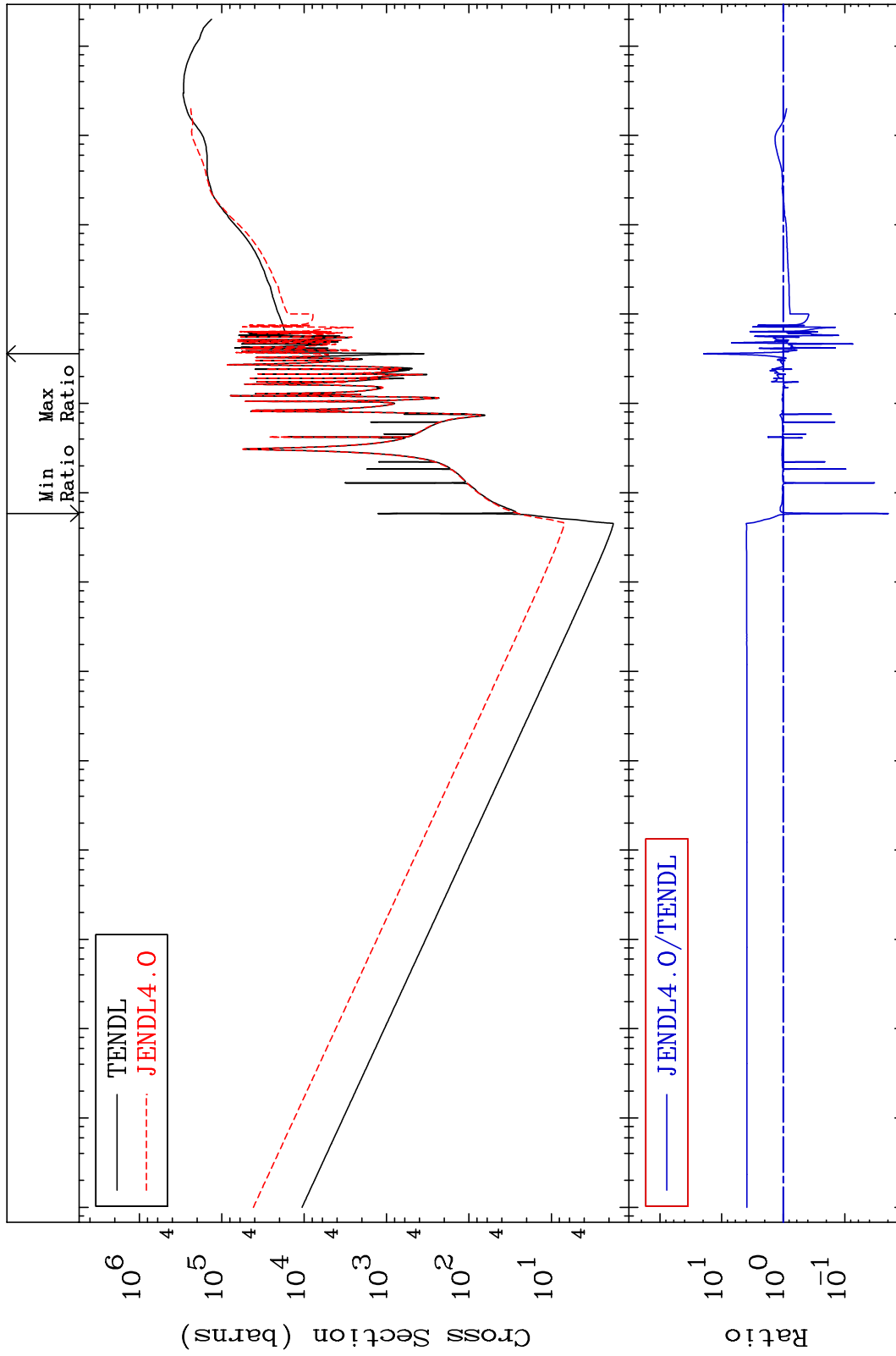
Incident Energy (eV)

22-Ti-47

MAT 2228

Dpa total (eV-barns)
Cross Section

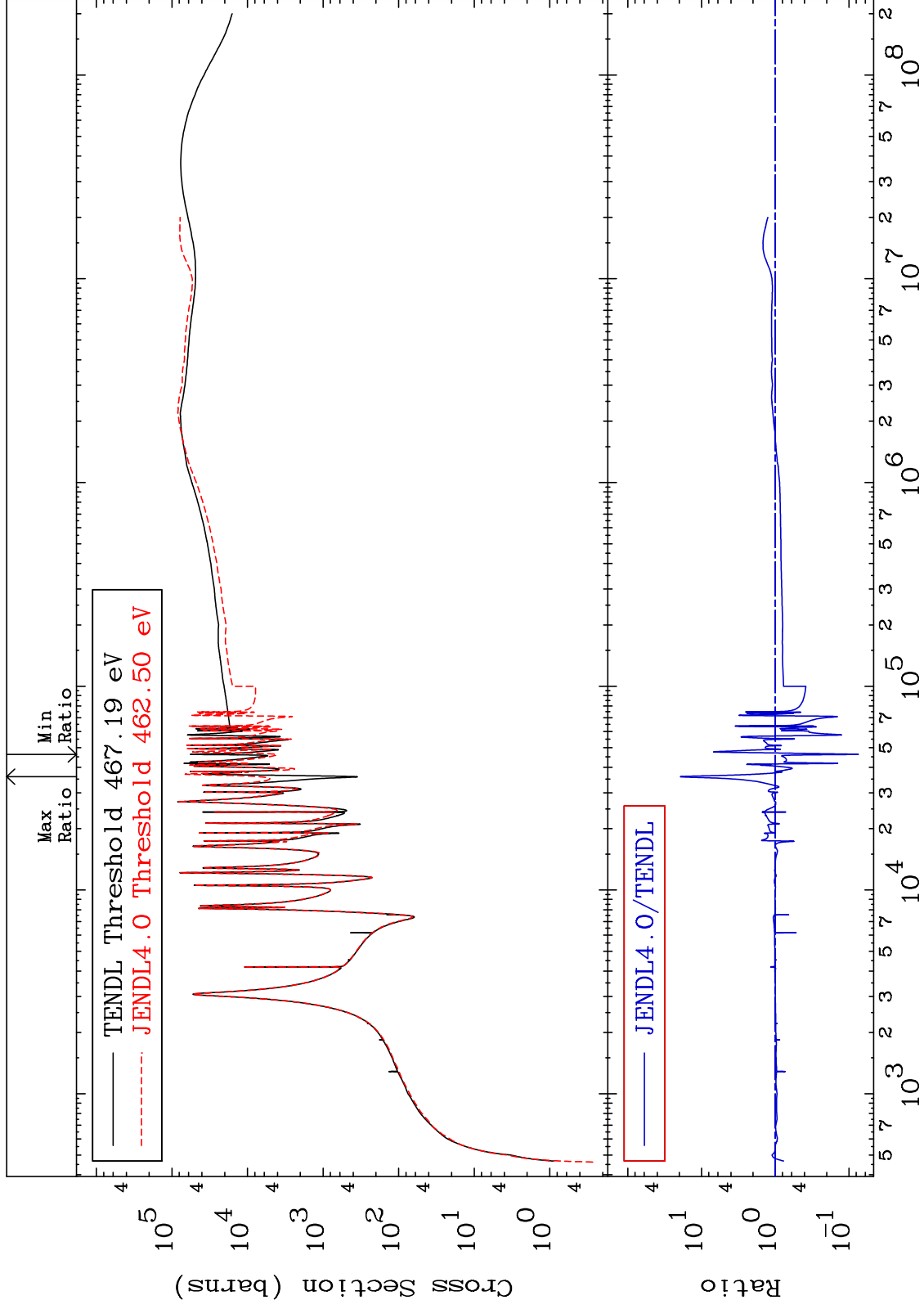
22-Ti-47
-98.02 To 1858. %



MAT 2228

Dpa elastic (mt2)
Cross Section

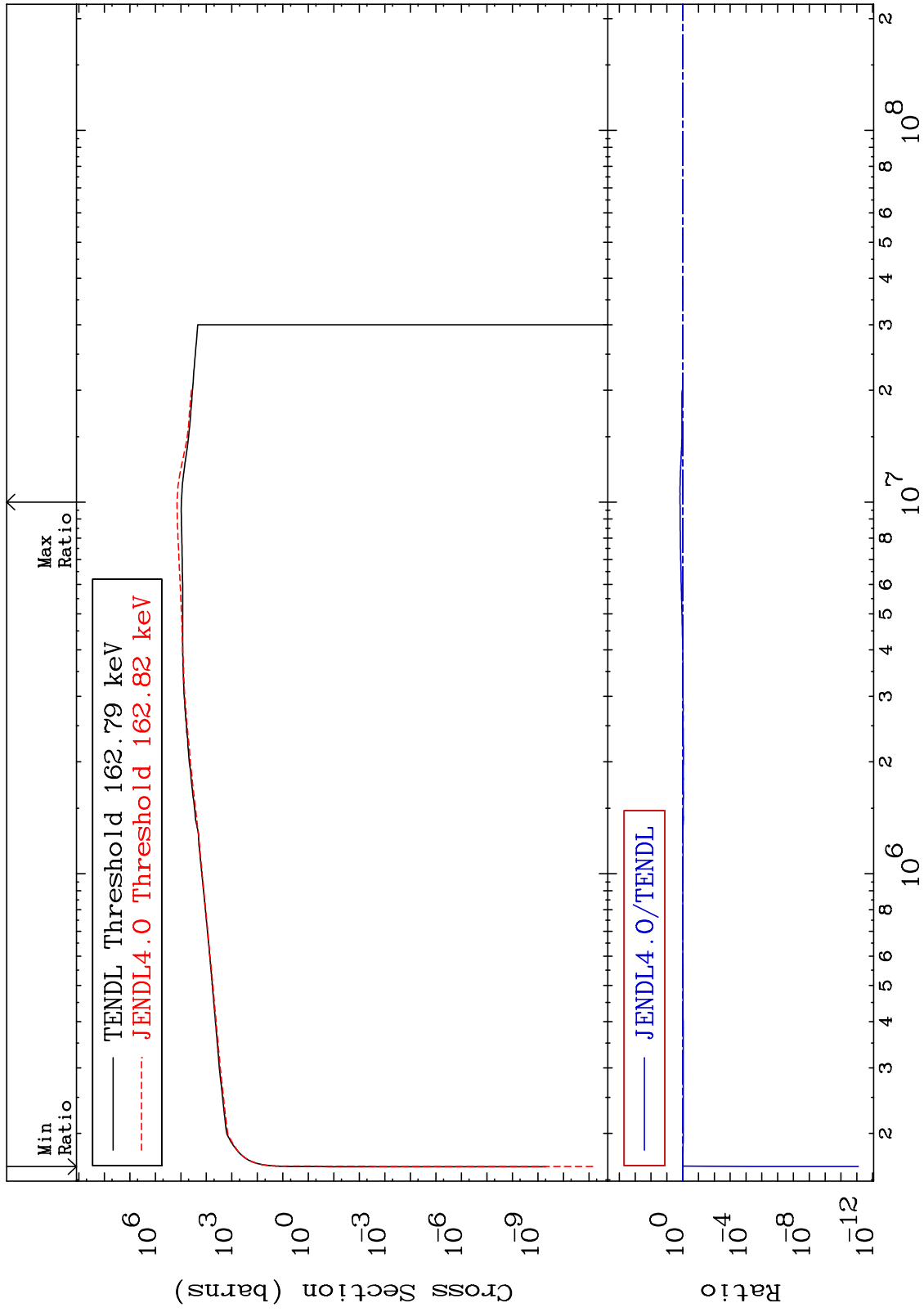
22-Ti-47
-92.55 To 1861. %



MAT 2228

Dpa inelastic (mt51-91)
Cross Section

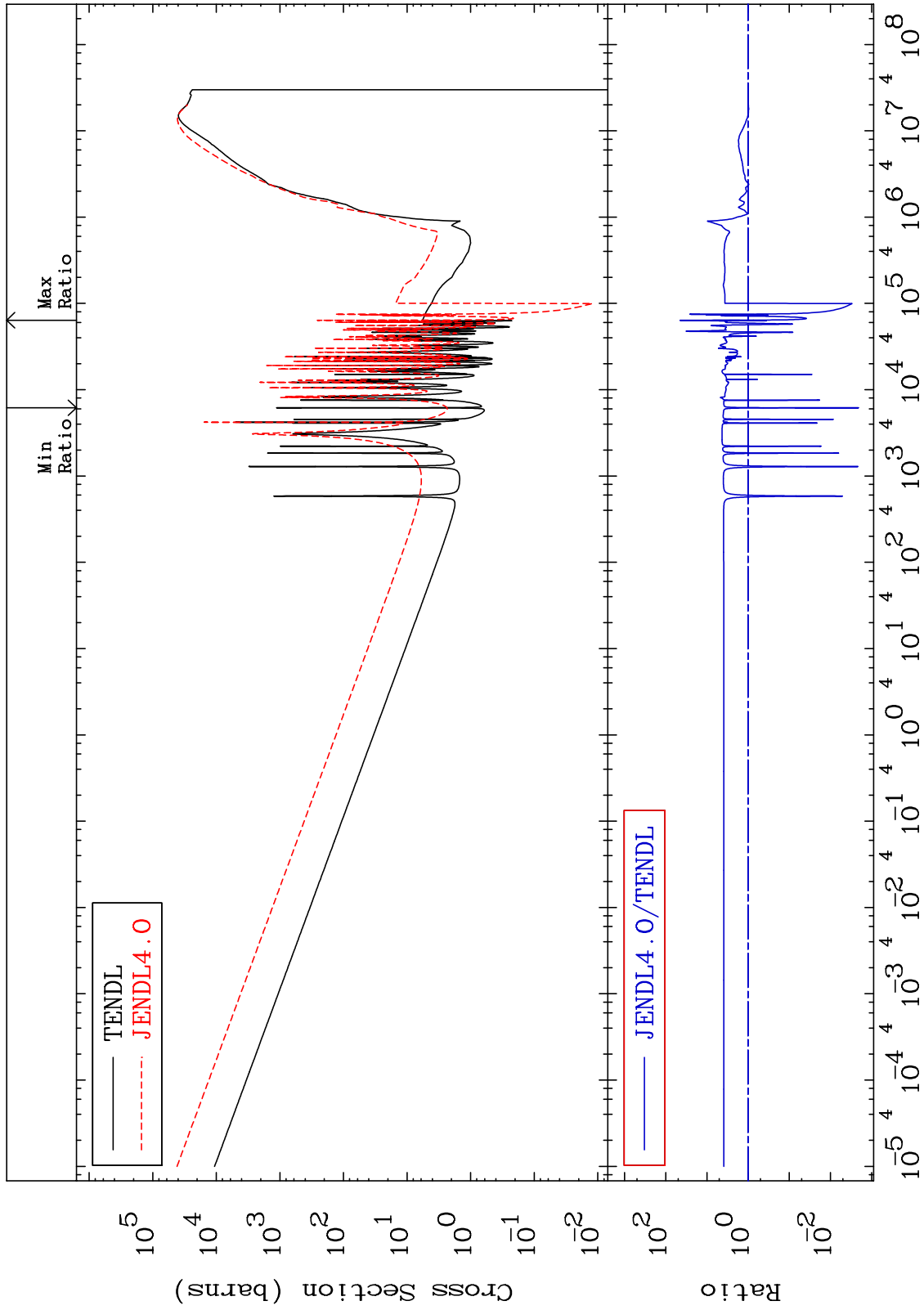
22-Ti-47
-100.0 To 47.67 %



MAT 2228

Dpa disappearance (mt102 -120)
Cross Section

22-Ti-47
-99.79 To 4406. %



47

Incident Energy (eV)

22-Ti-47

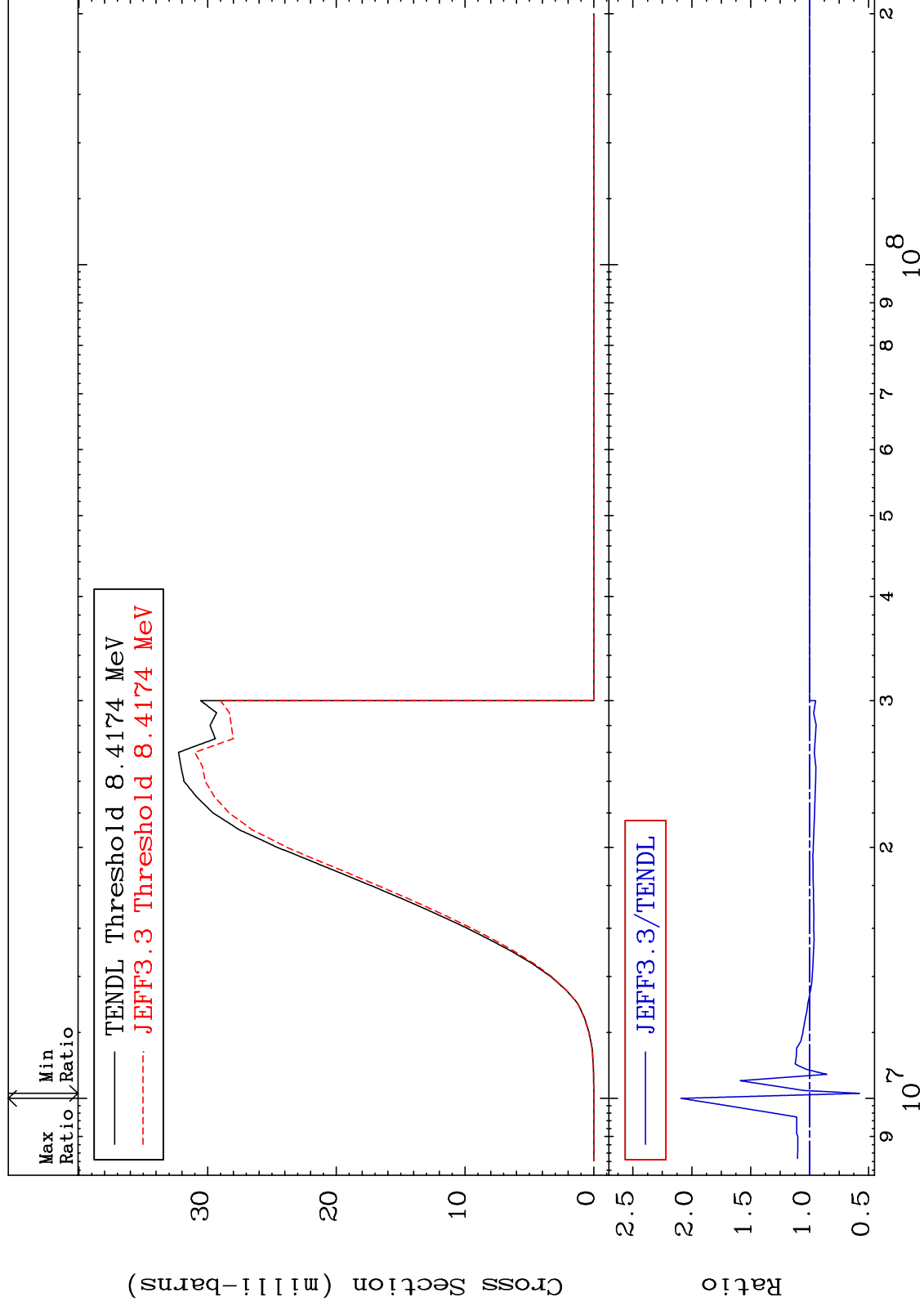
MAT 2228

(n, d)

22-Ti-47

Cross Section

-42.12 To 109.1 %



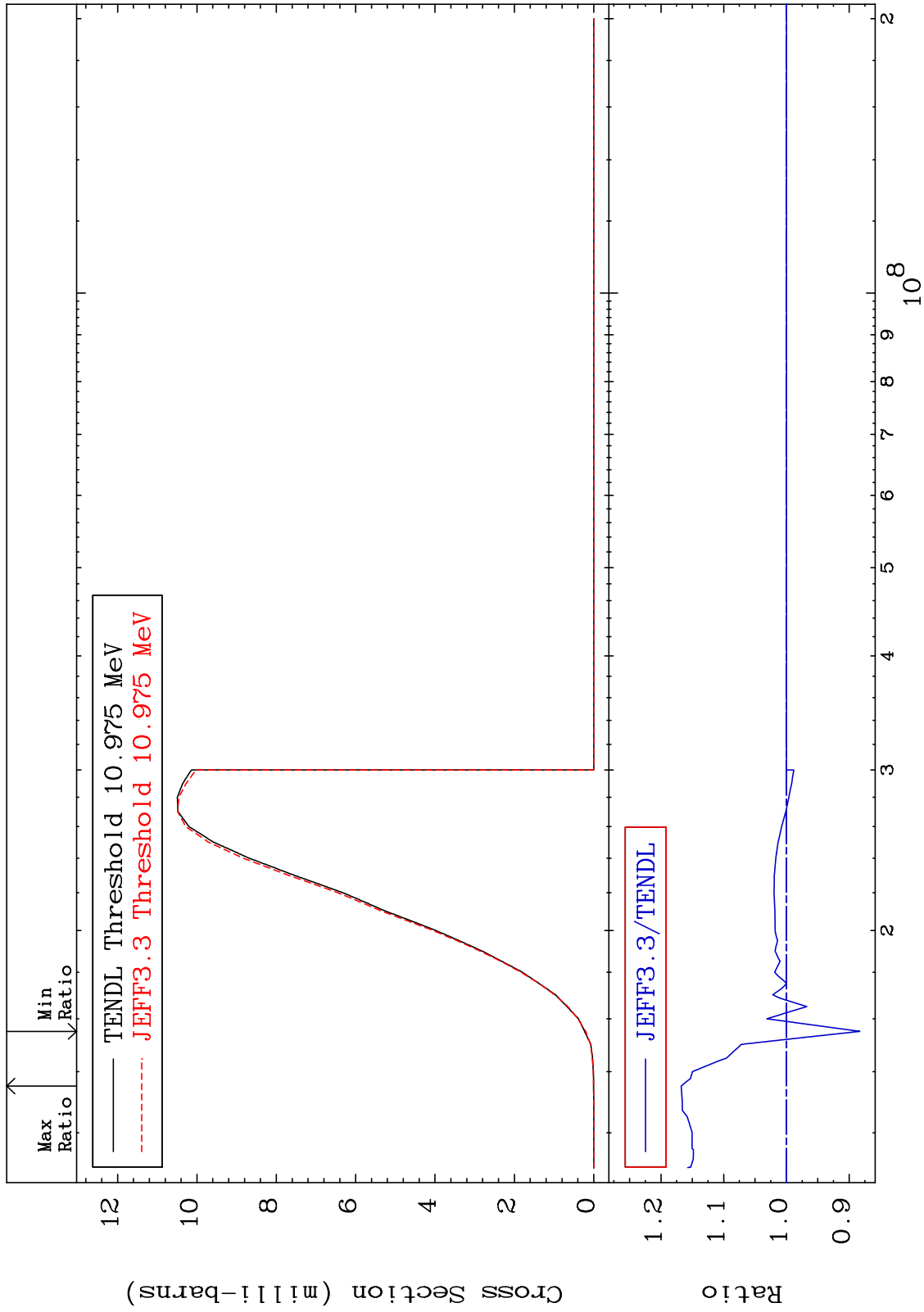
48

Incident Energy (eV)

22-Ti-47

Cross Section

-11.72 To 16.77 %



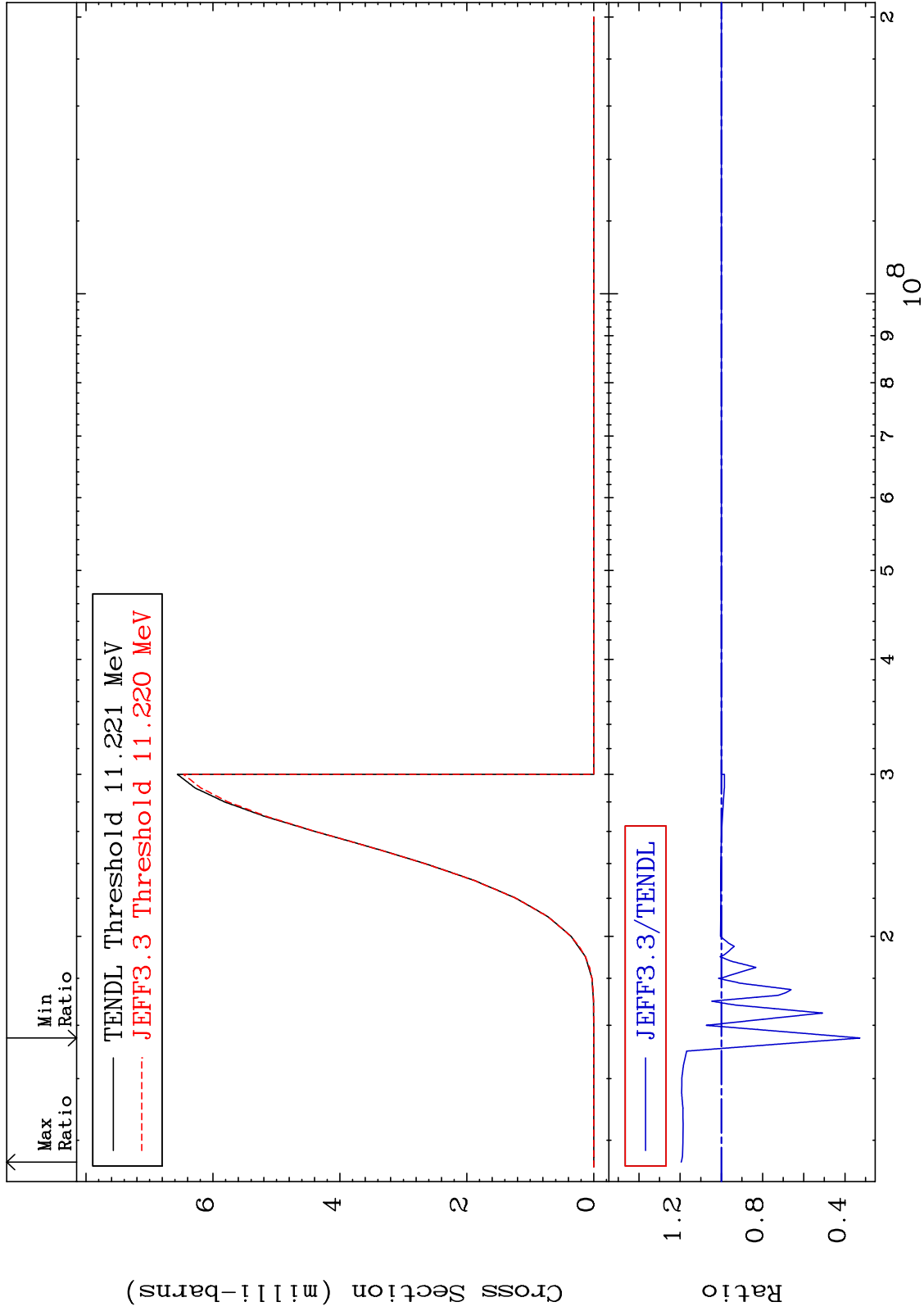
MAT 2228

(n, He-3)

22-Ti-47

Cross Section

-67.25 To 19.47 %



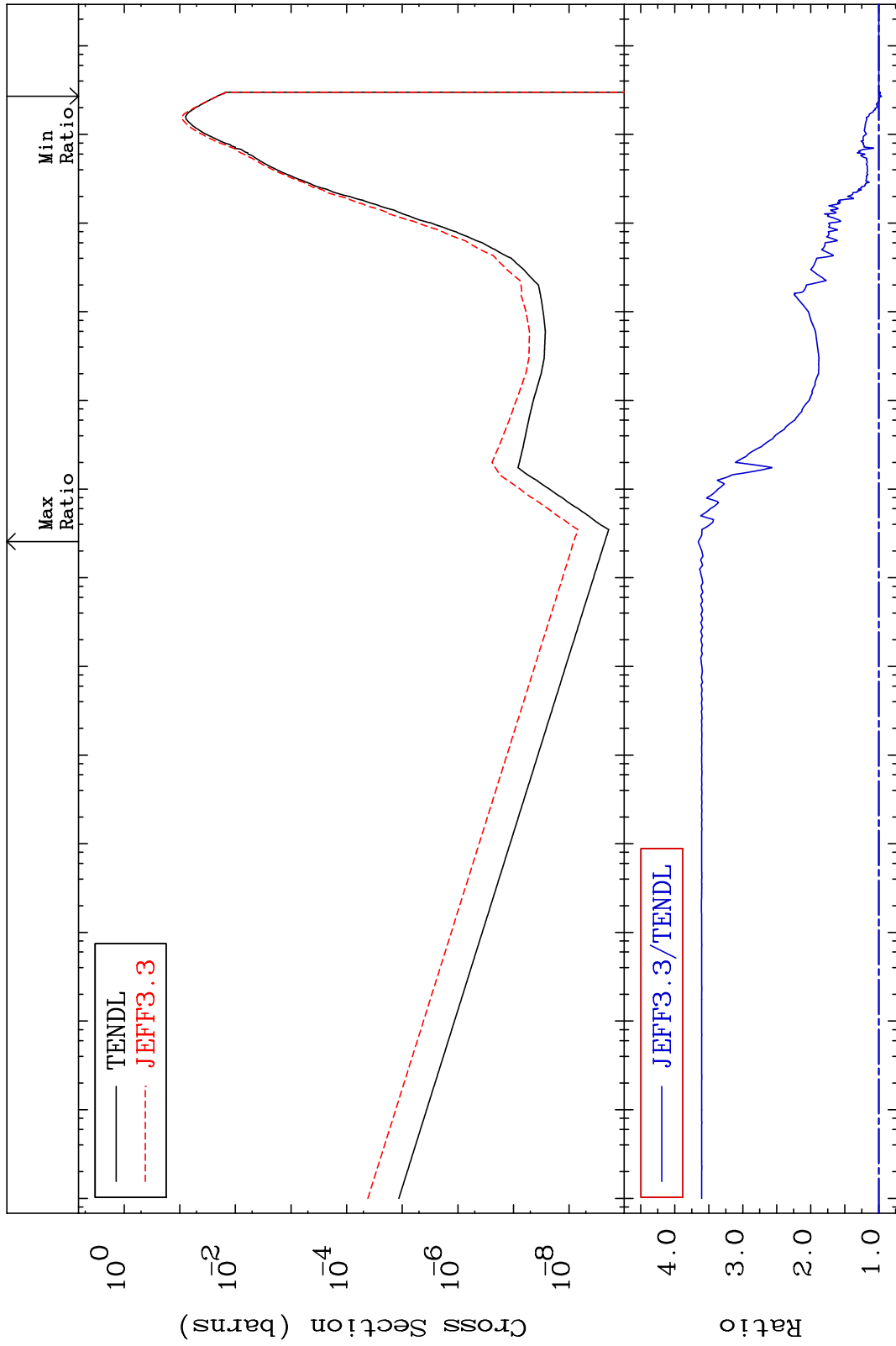
MAT 2228

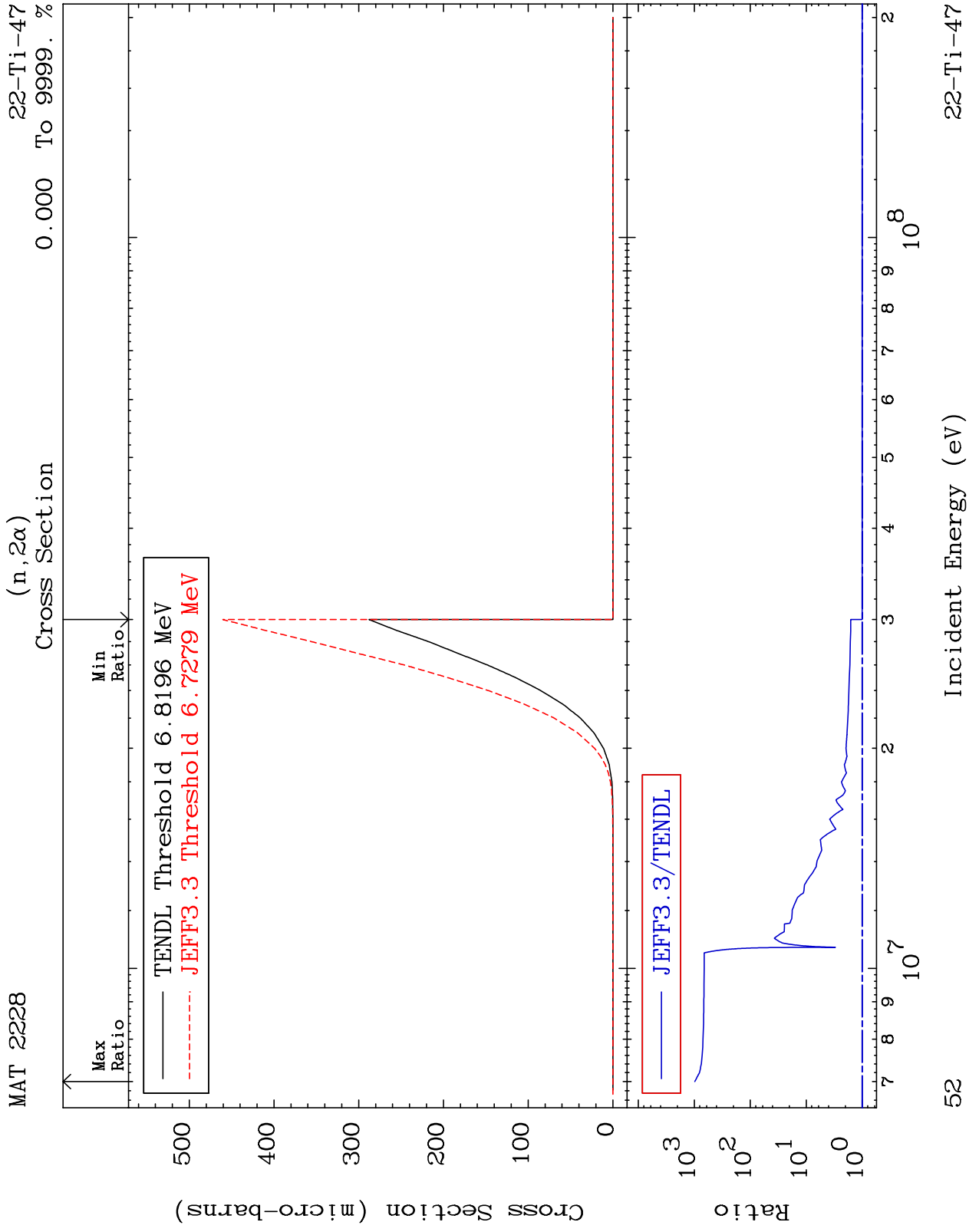
(n, α)

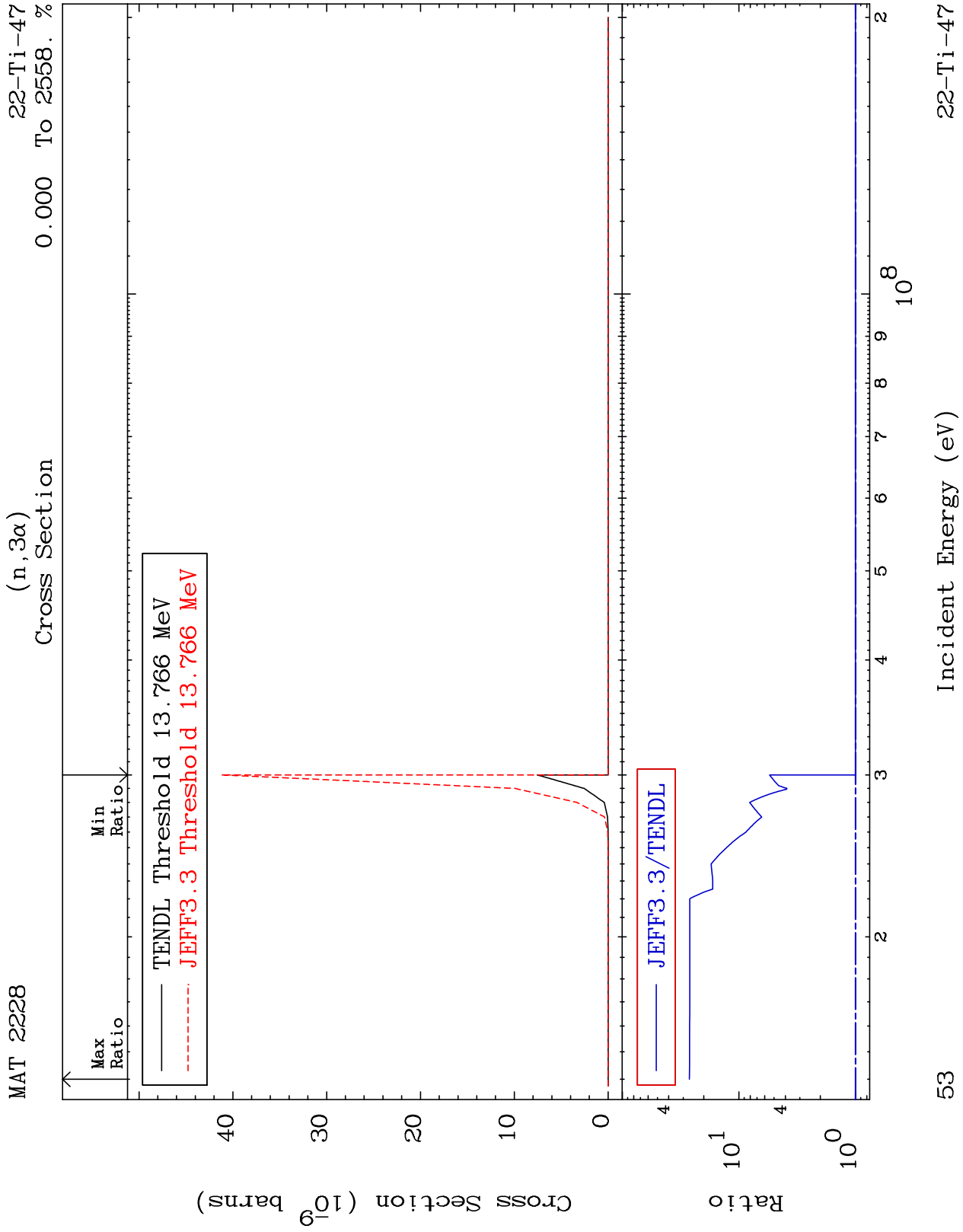
22-Ti-47

Cross Section

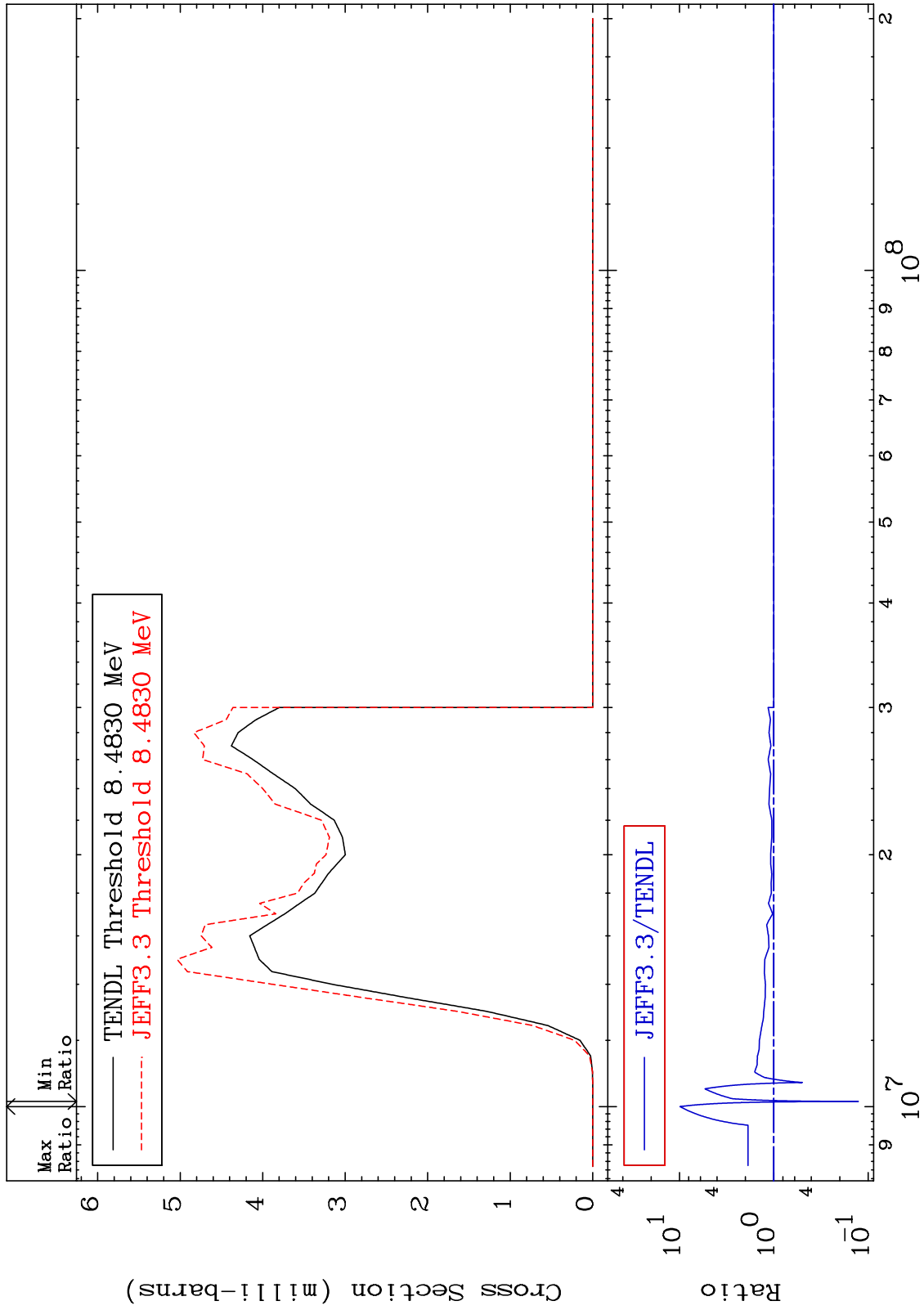
-4.159 To 265.3 %







MAT 2228 (n,2p) Cross Section 22-Ti-47
 -87.33 To 888.5 %



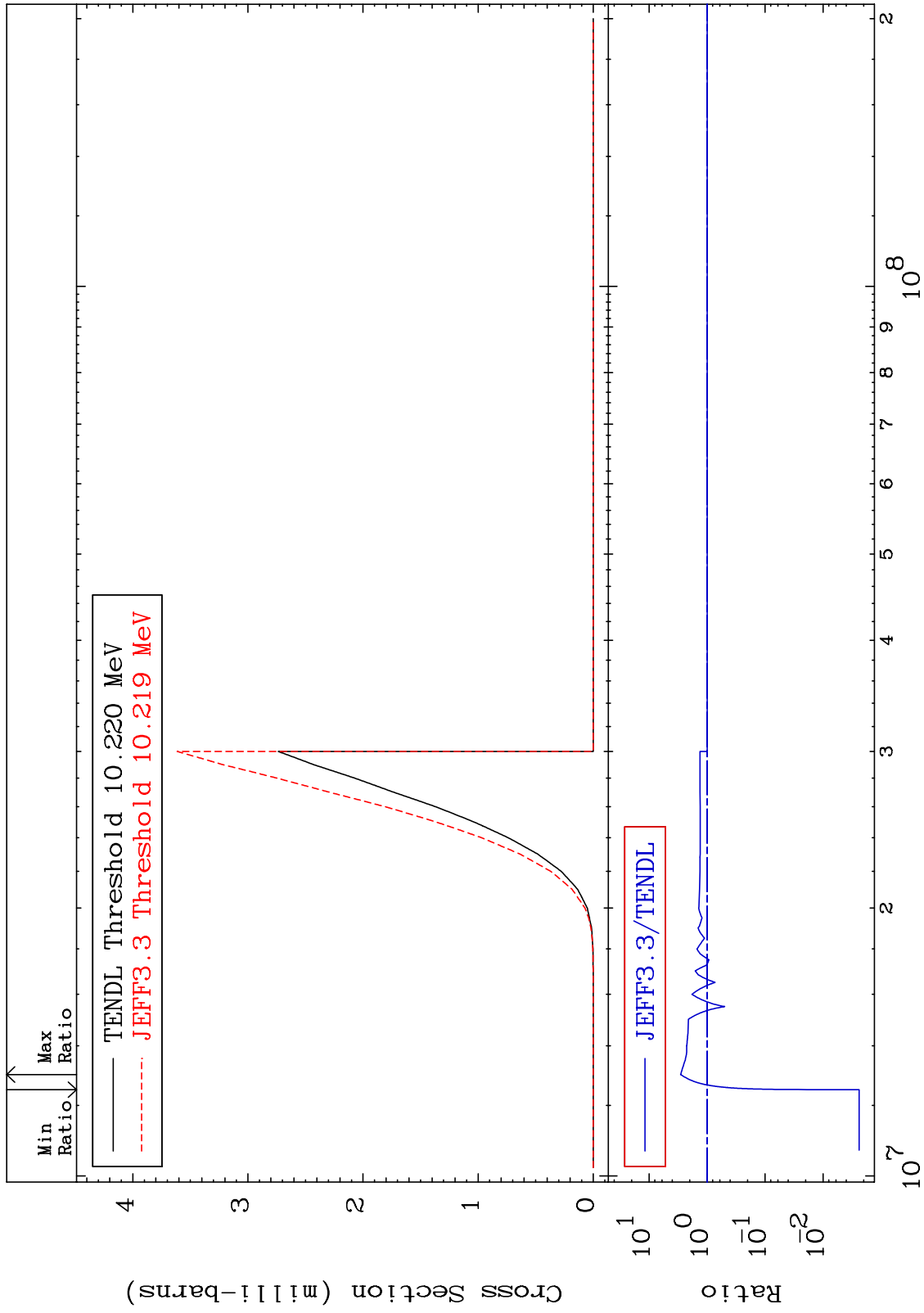
MAT 2228

(n,p) α

22-Ti-47

Cross Section

-99.76 To 185.8 %



55

Incident Energy (eV)

22-Ti-47

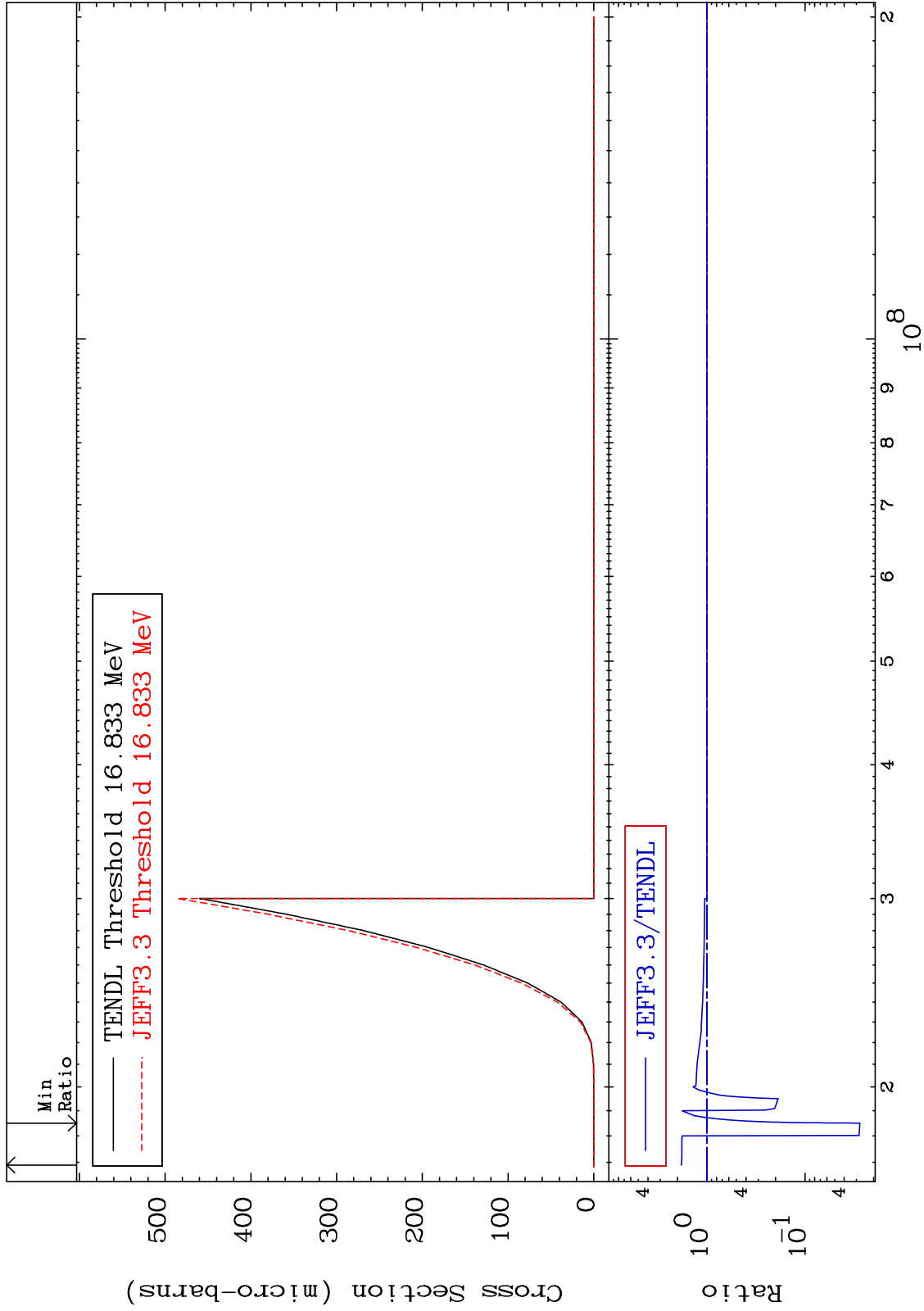
MAT 2228

(n,p) d

22-Ti-47

Cross Section

-97.24 To 83.00 %



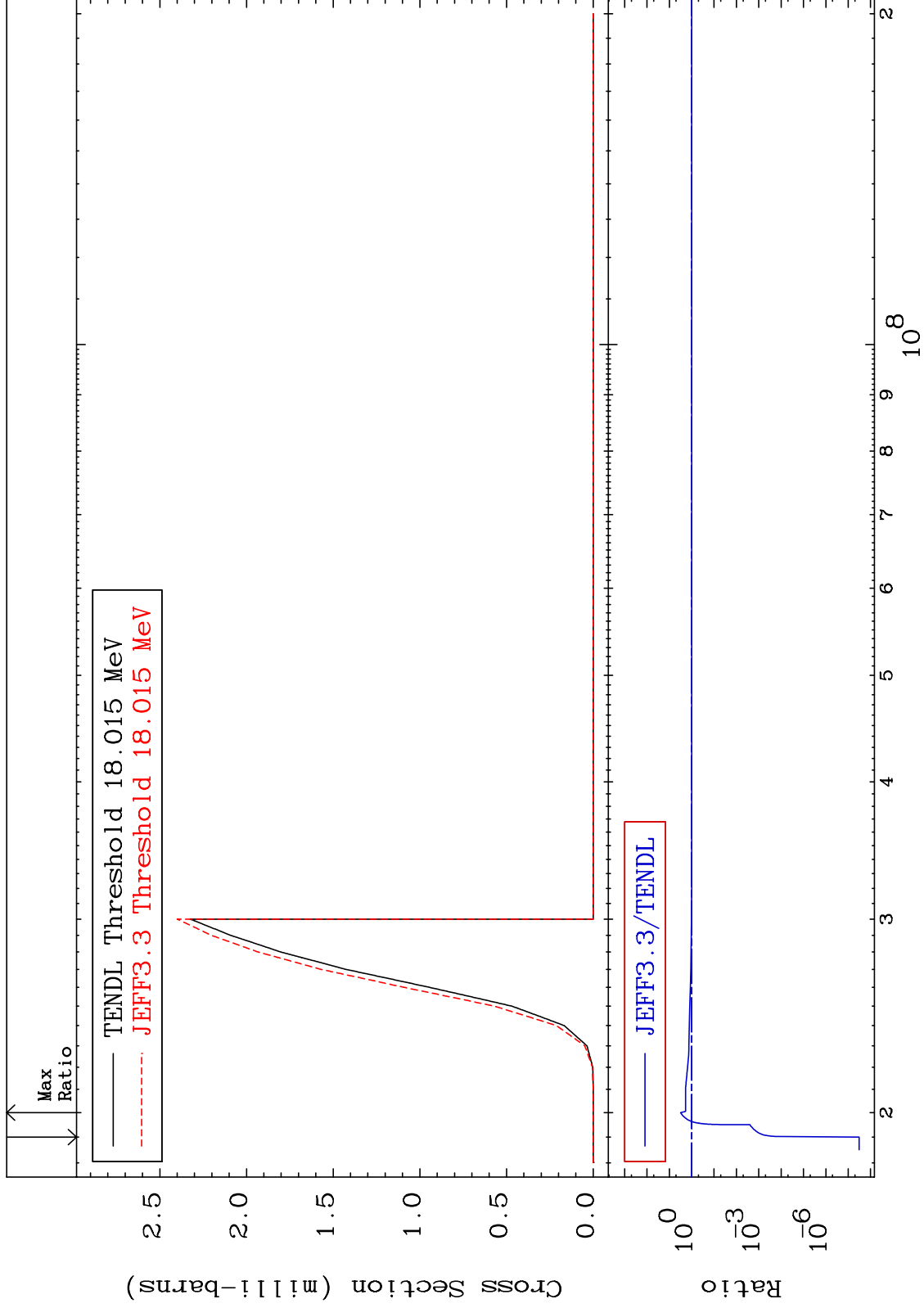
MAT 2228

(n,p) t

22-Ti-47

Cross Section

-100.0 To 212.7 %



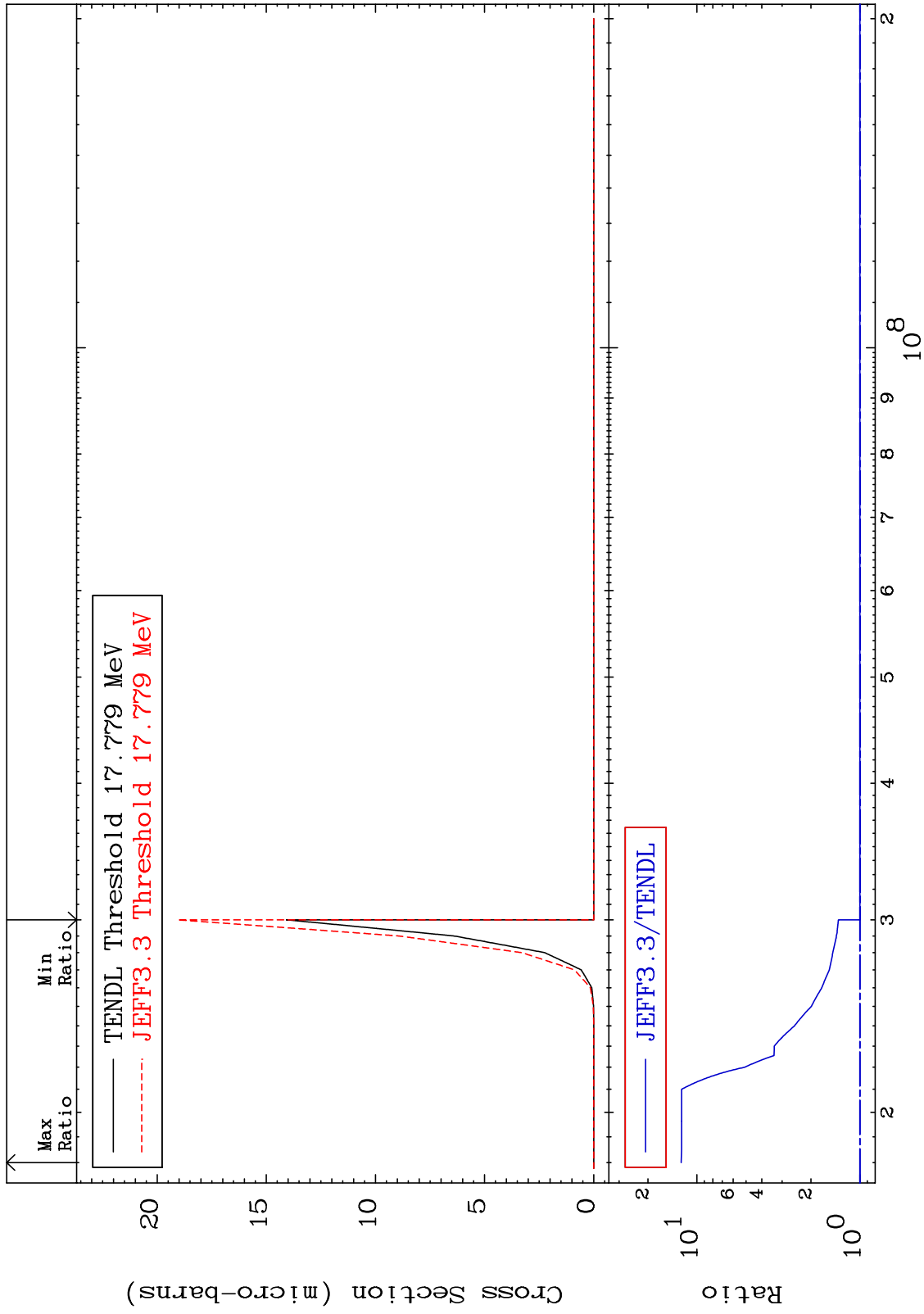
MAT 2228

(n,d) α

22-Ti-47

Cross Section

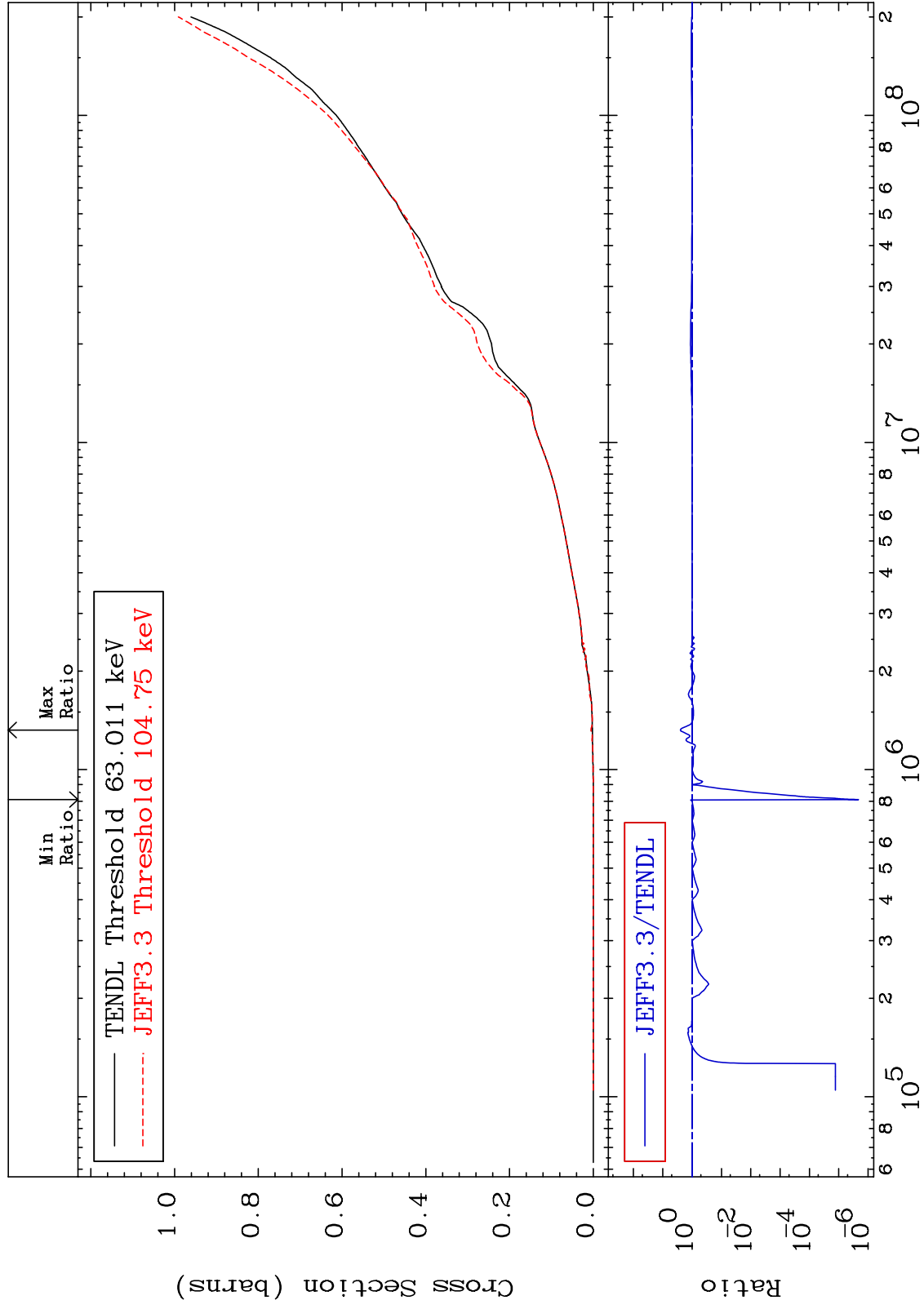
0.000 To 1149. %



MAT 2228

Hydrogen Production
Cross Section

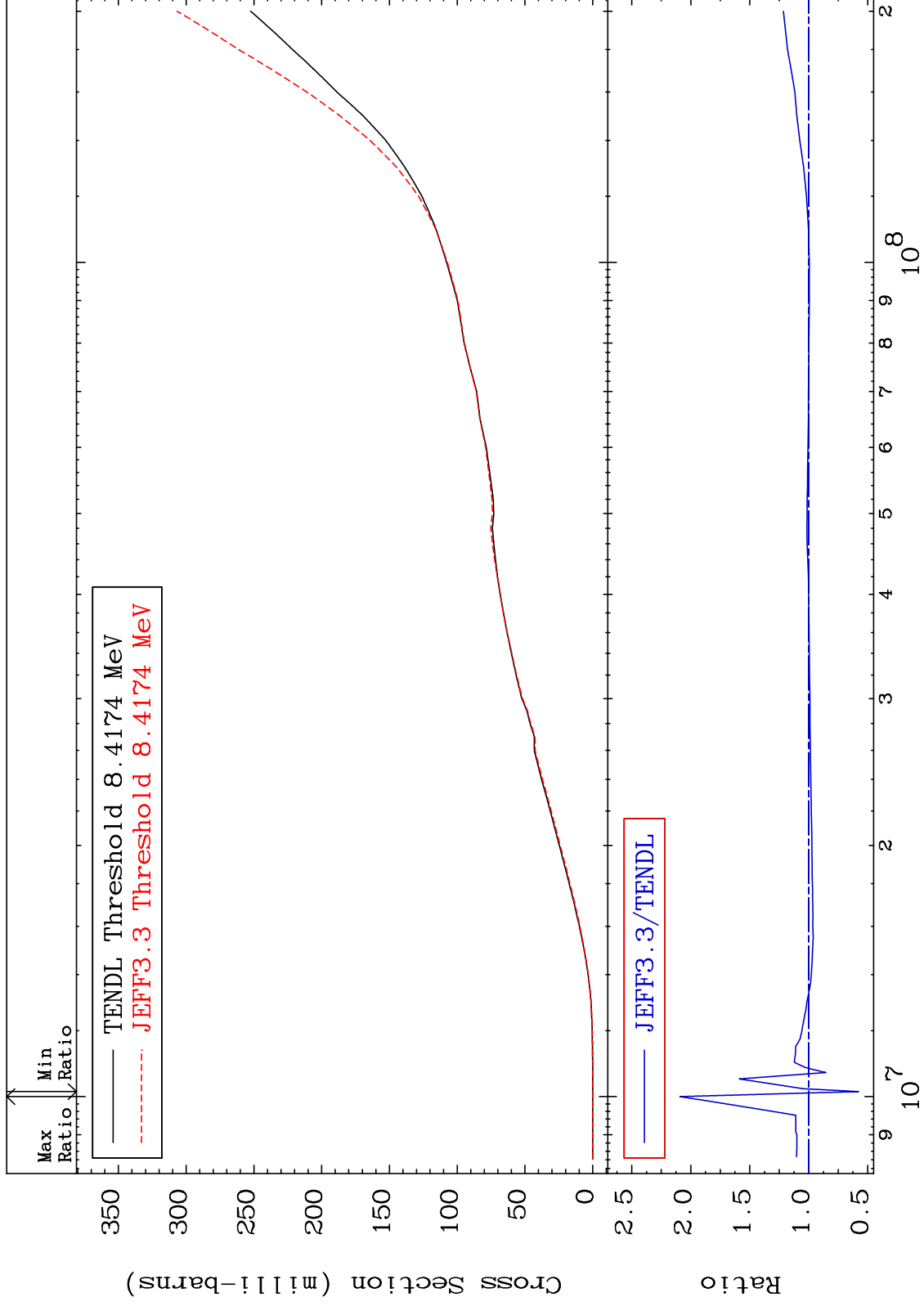
²²Ti-47
-100.0 To 149.7 %



MAT 2228

Deuterium Production
Cross Section

$^{22}\text{Ti-47}$
-42.12 To 109.1 %



60

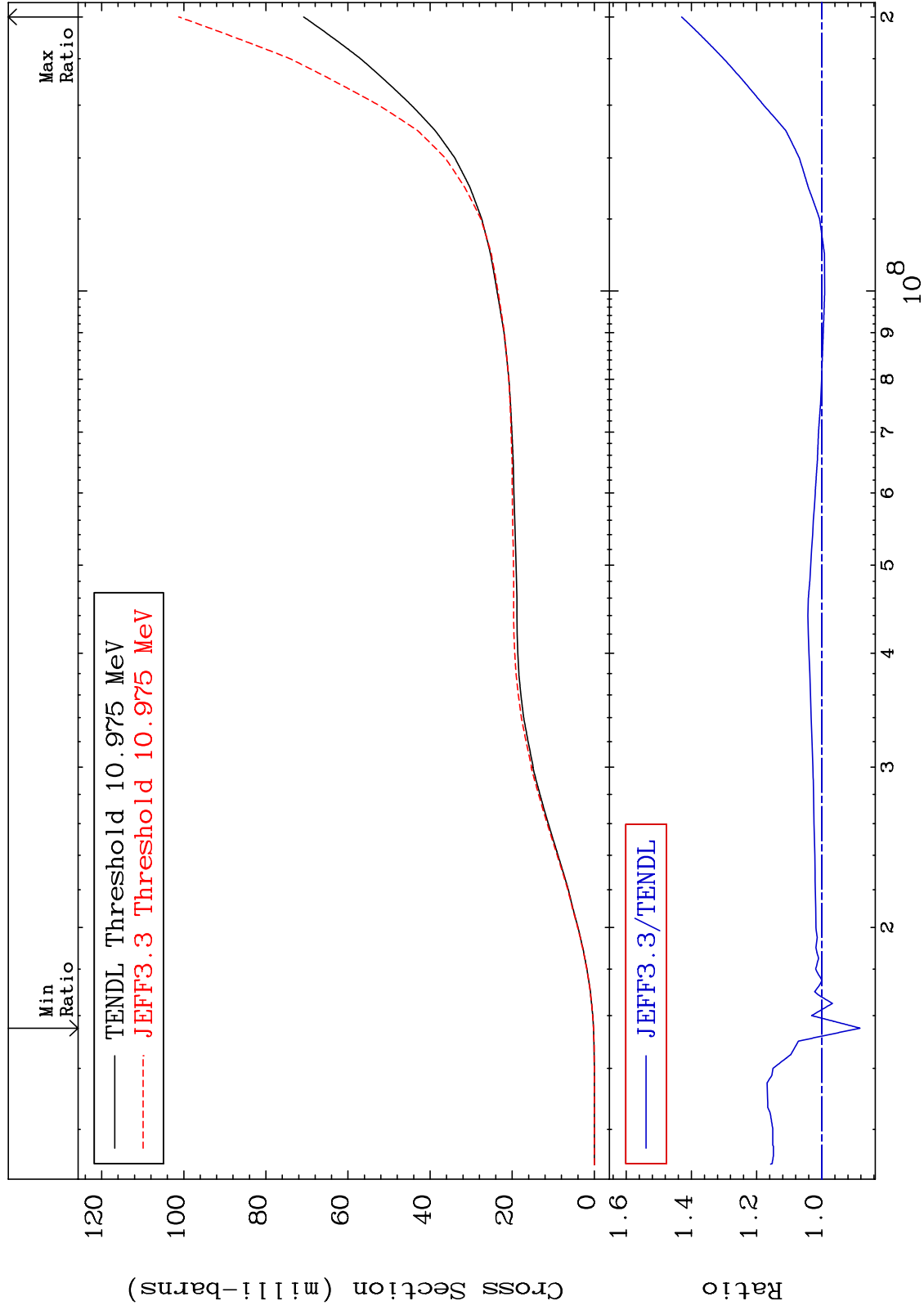
Incident Energy (eV)

$^{22}\text{Ti-47}$

MAT 2228

Tritium Production
Cross Section

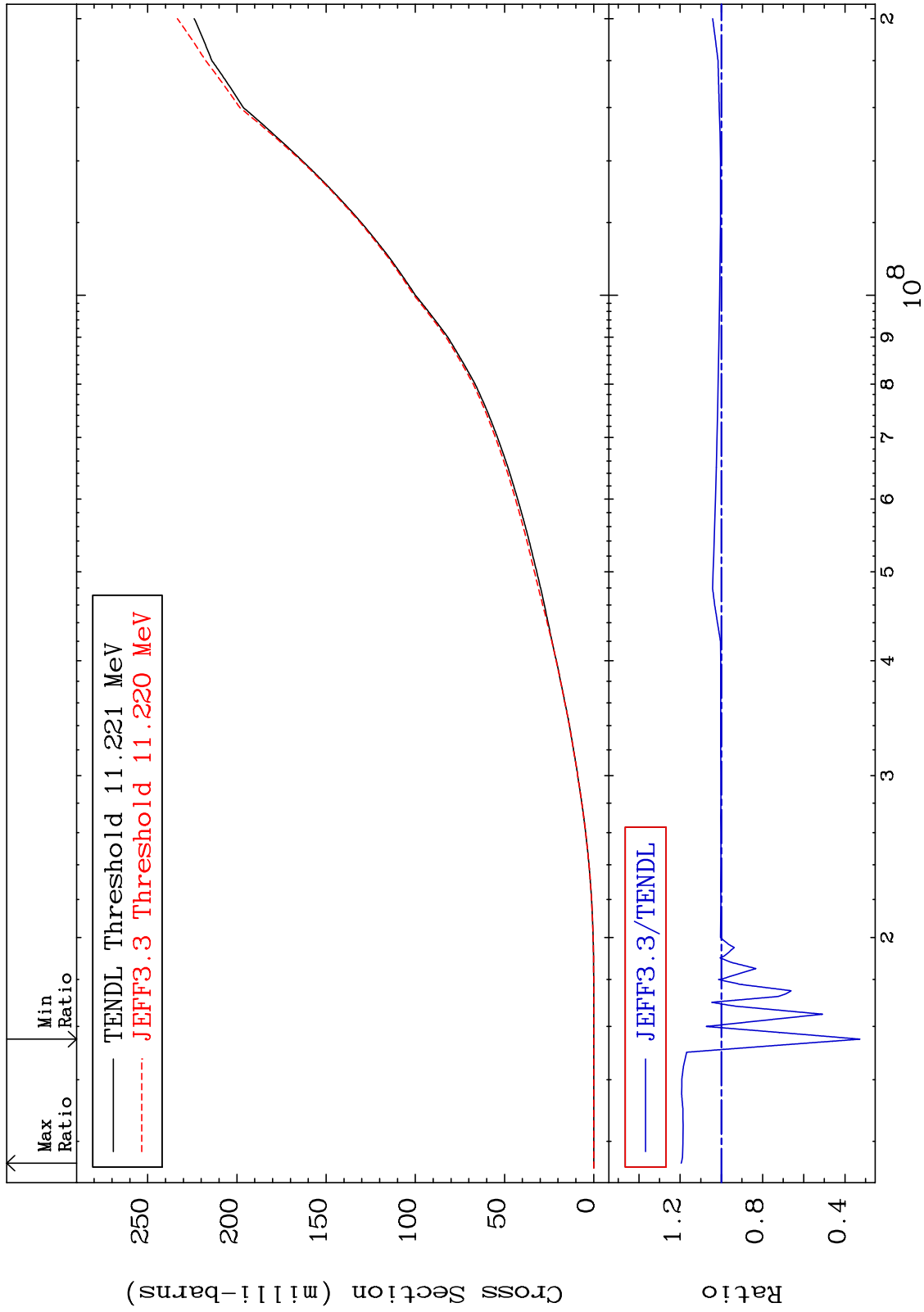
22-Ti-47
-11.72 To 42.99 %



MAT 2228

He-3 Production
Cross Section

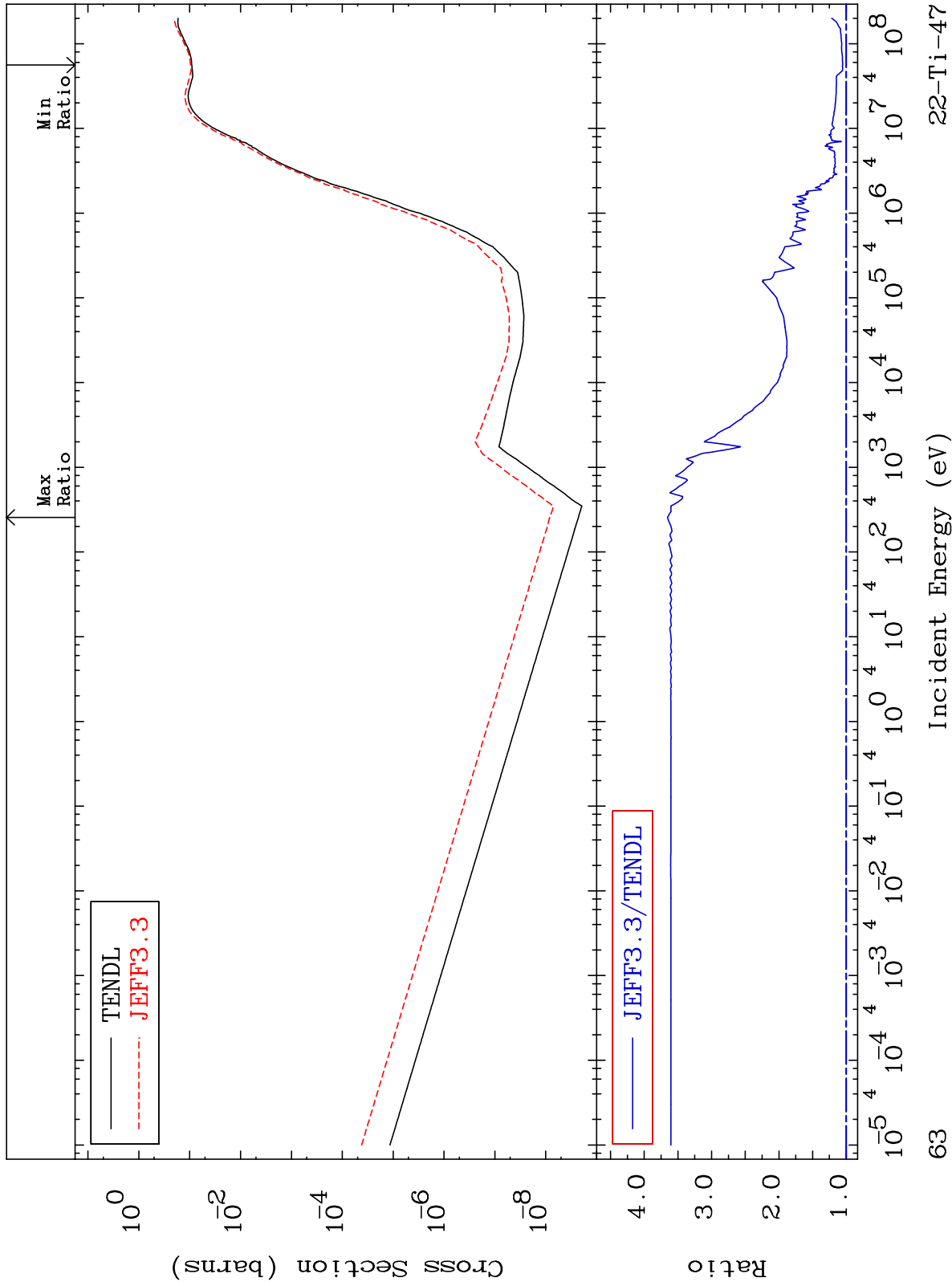
22-Ti-47
-67.25 To 19.47 %



MAT 2228

He-4 Production
Cross Section

5.379 To 265.3 %
22-Ti-47



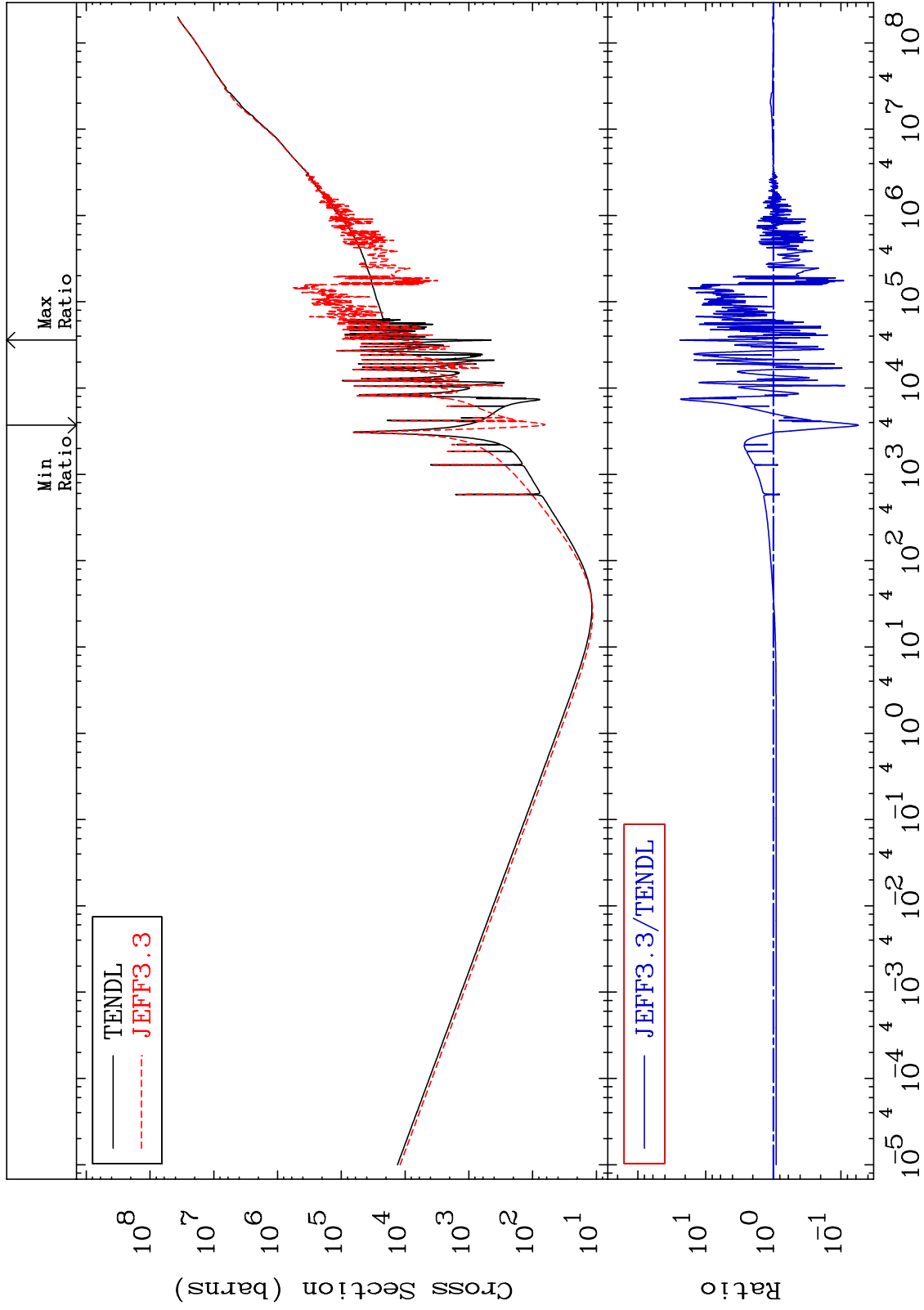
63

22-Ti-47

MAT 2228

Kerma total (eV-barns)
Cross Section

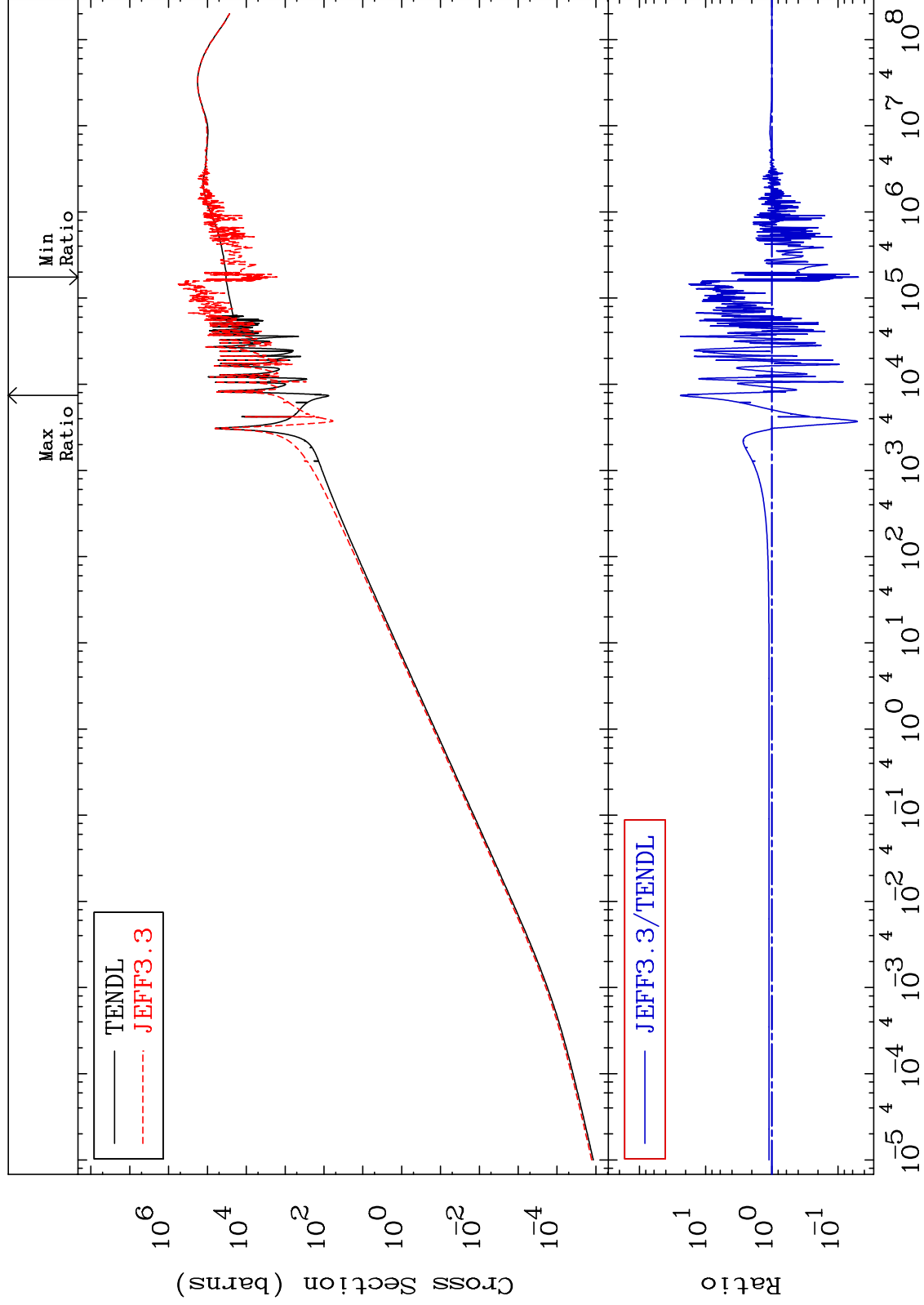
22-Ti-47
-94.48 To 2286. %



MAT 2228

Kerma elastic
Cross Section

22-Ti-47
-95.11 To 2301. %



65

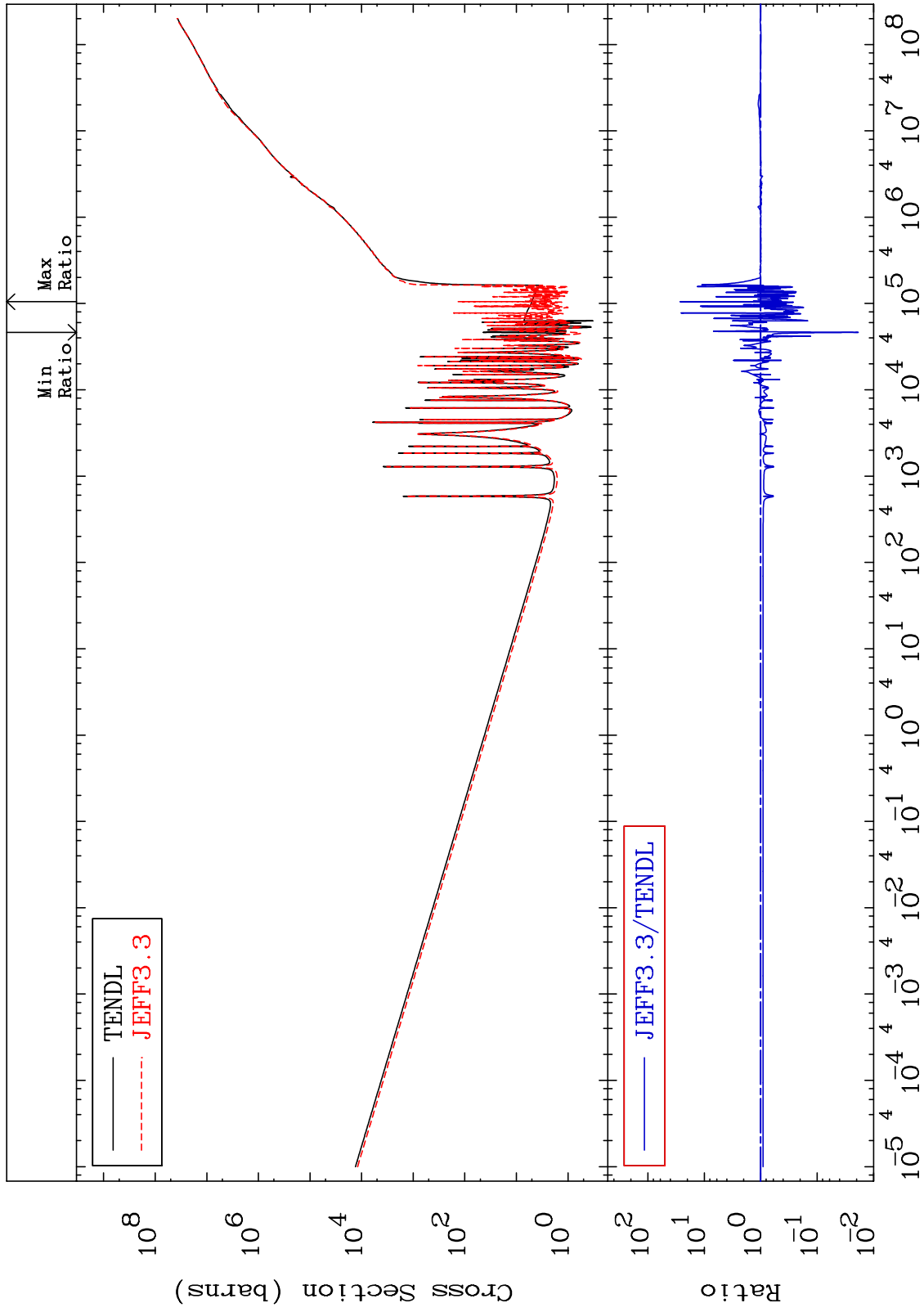
Incident Energy (eV)

22-Ti-47

MAT 2228

Kerma non-elastic (all but mt2)
Cross Section

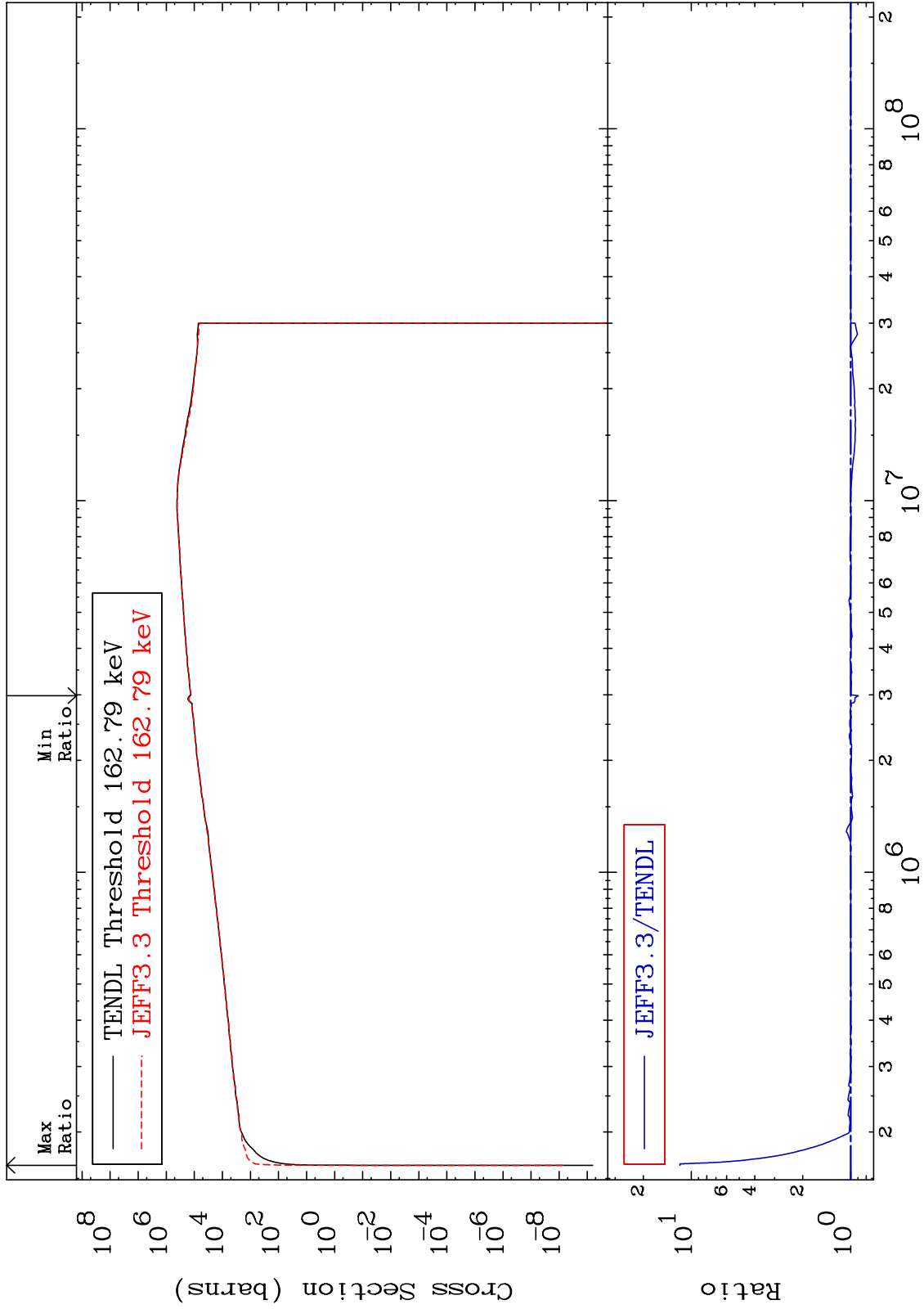
22-Ti-47
-98.14 To 2594. %



MAT 2228

Kerma inelastic (mt51-91)
Cross Section

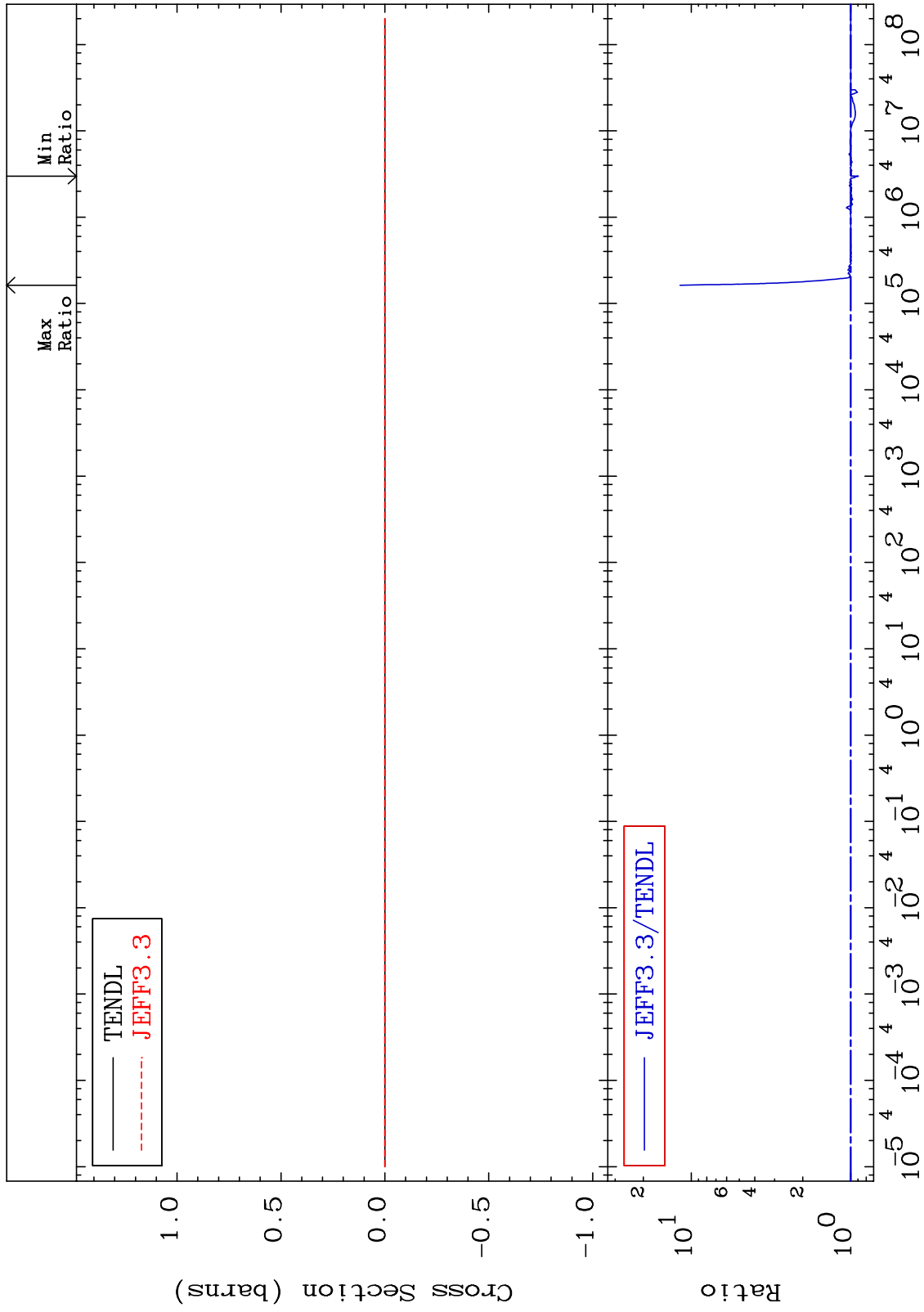
22-Ti-47
-10.56 To 1076. %



MAT 2228

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

22-Ti-47
-10.56 To 1076. %



68

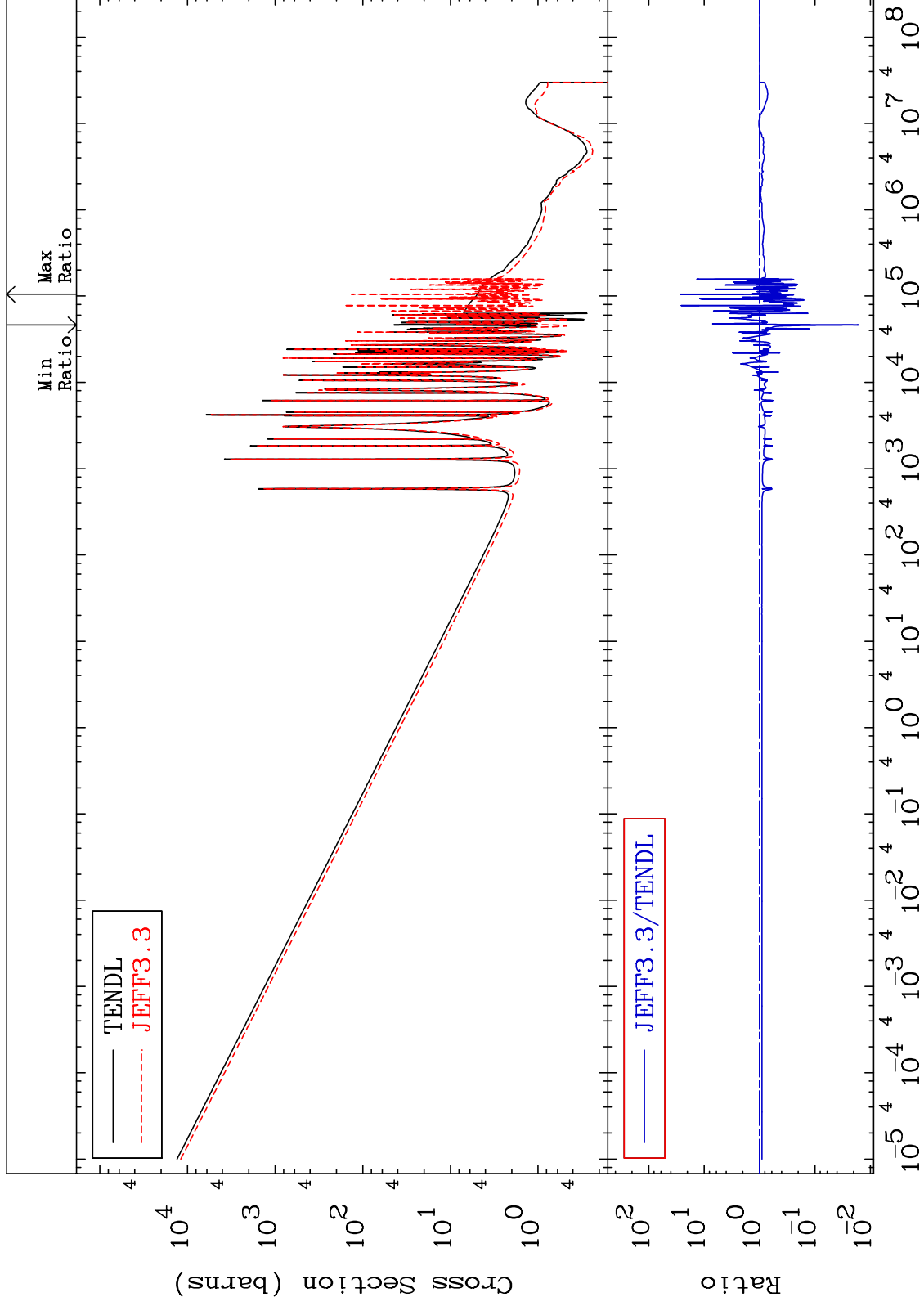
Incident Energy (eV)

22-Ti-47

MAT 2228

Kerma capture (mt102)
Cross Section

22-Ti-47
-98.36 To 2624. %



69

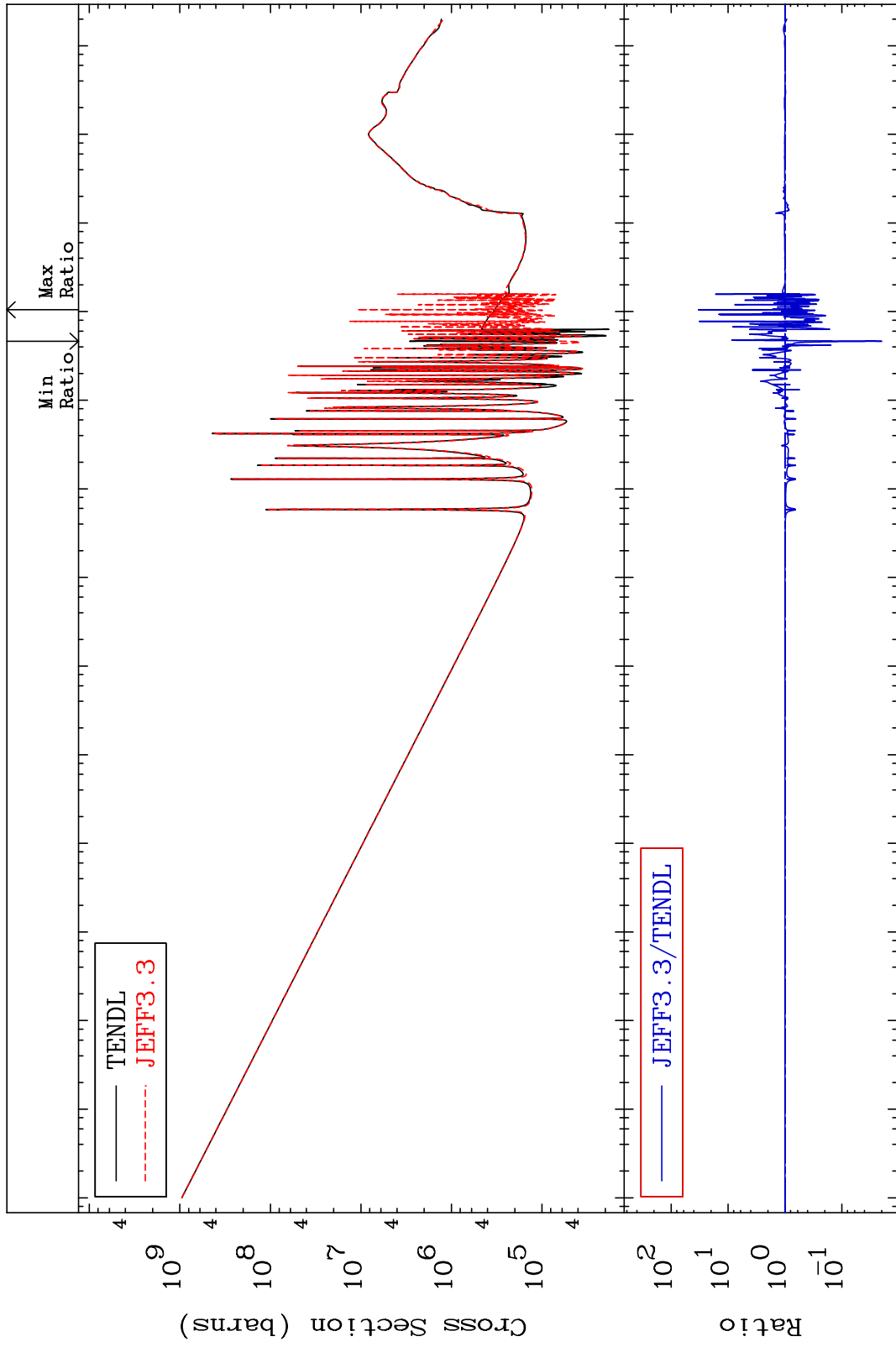
Incident Energy (eV)

22-Ti-47

MAT 2228

Total photon (eV-barns)
Cross Section

22-Ti-47
-97.99 To 3228. %



JEFF3.3/TENDL

Ratio

10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸
Incident Energy (eV)

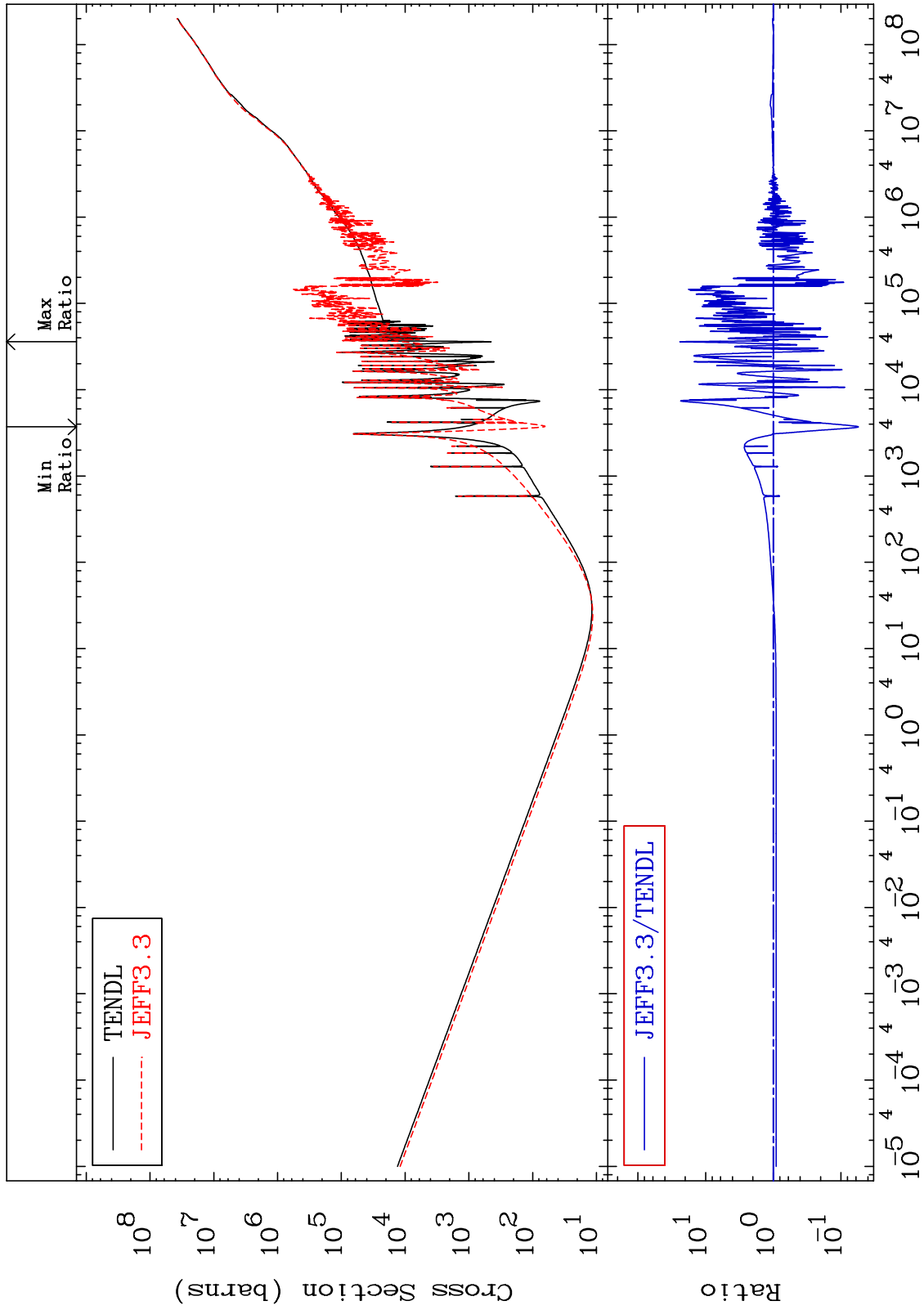
22-Ti-47

70

MAT 2228

Total kinematic kerma (high limit)
Cross Section

22-Ti-47
-94.48 To 2286. %



71

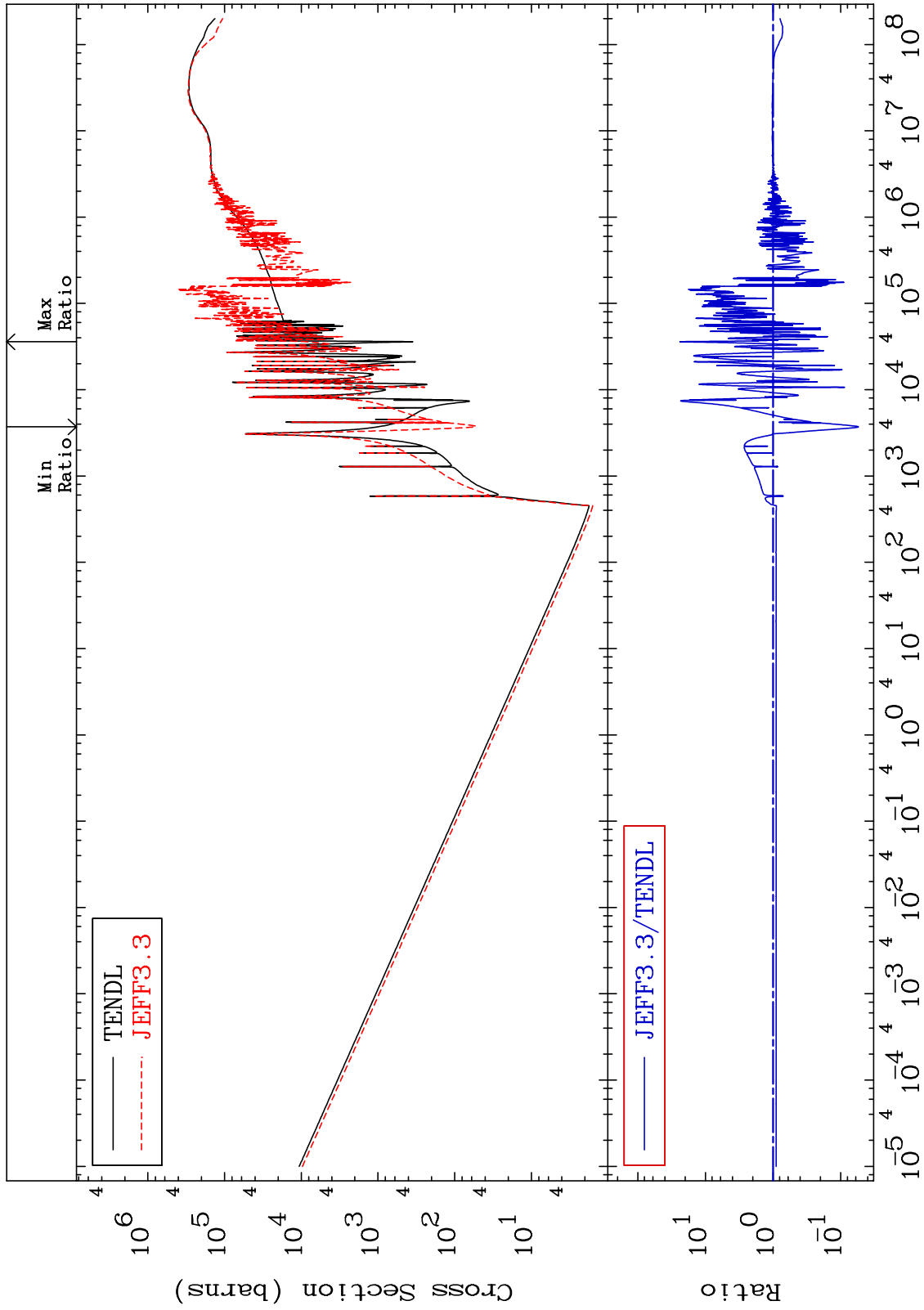
Incident Energy (eV)

22-Ti-47

MAT 2228

Dpa total (eV-barns)
Cross Section

22-Ti-47
-94.51 To 2286. %



72

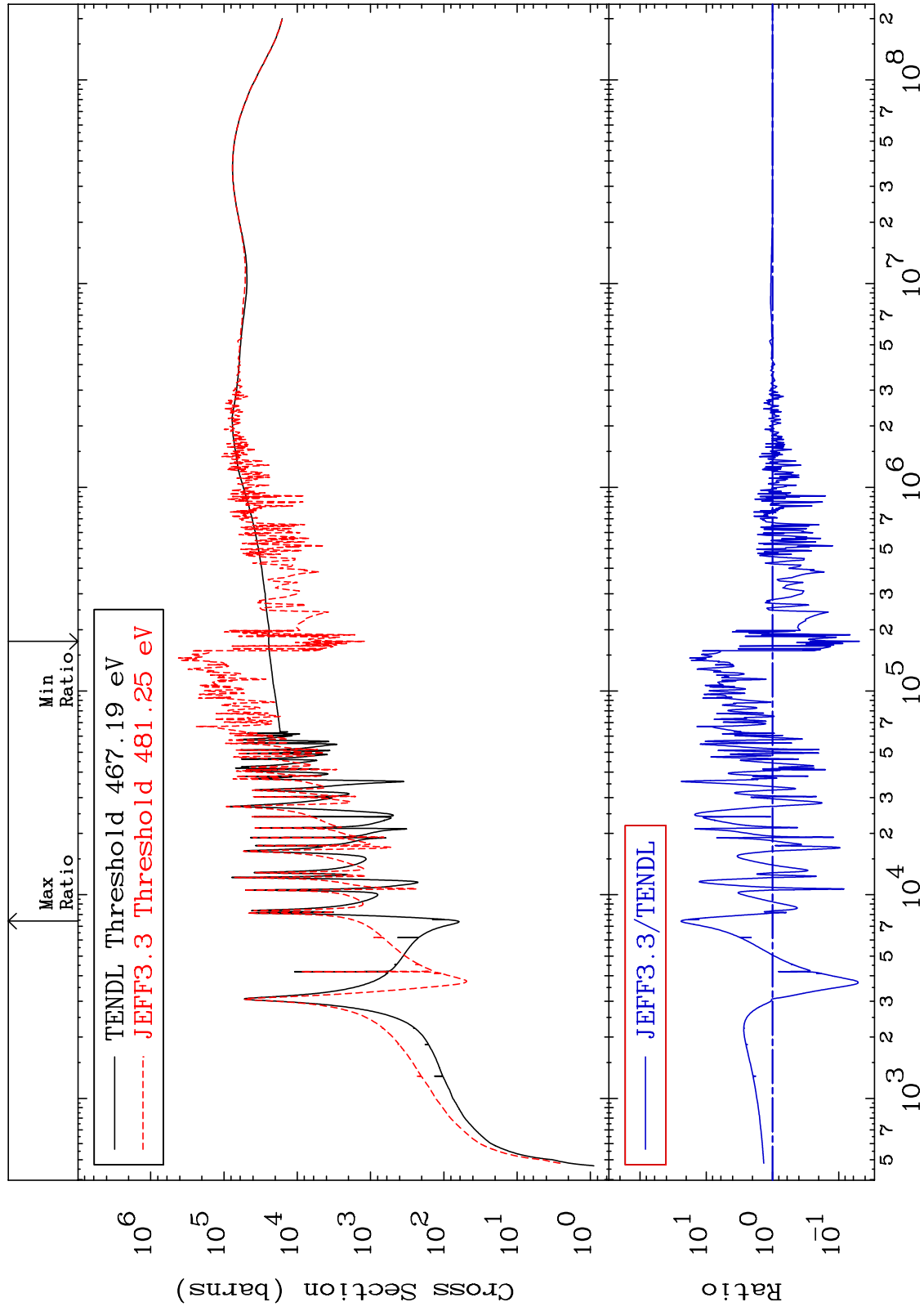
Incident Energy (eV)

22-Ti-47

MAT 2228

Dpa elastic (mt2)
Cross Section

22-Ti-47
-95.11 To 2301. %



73

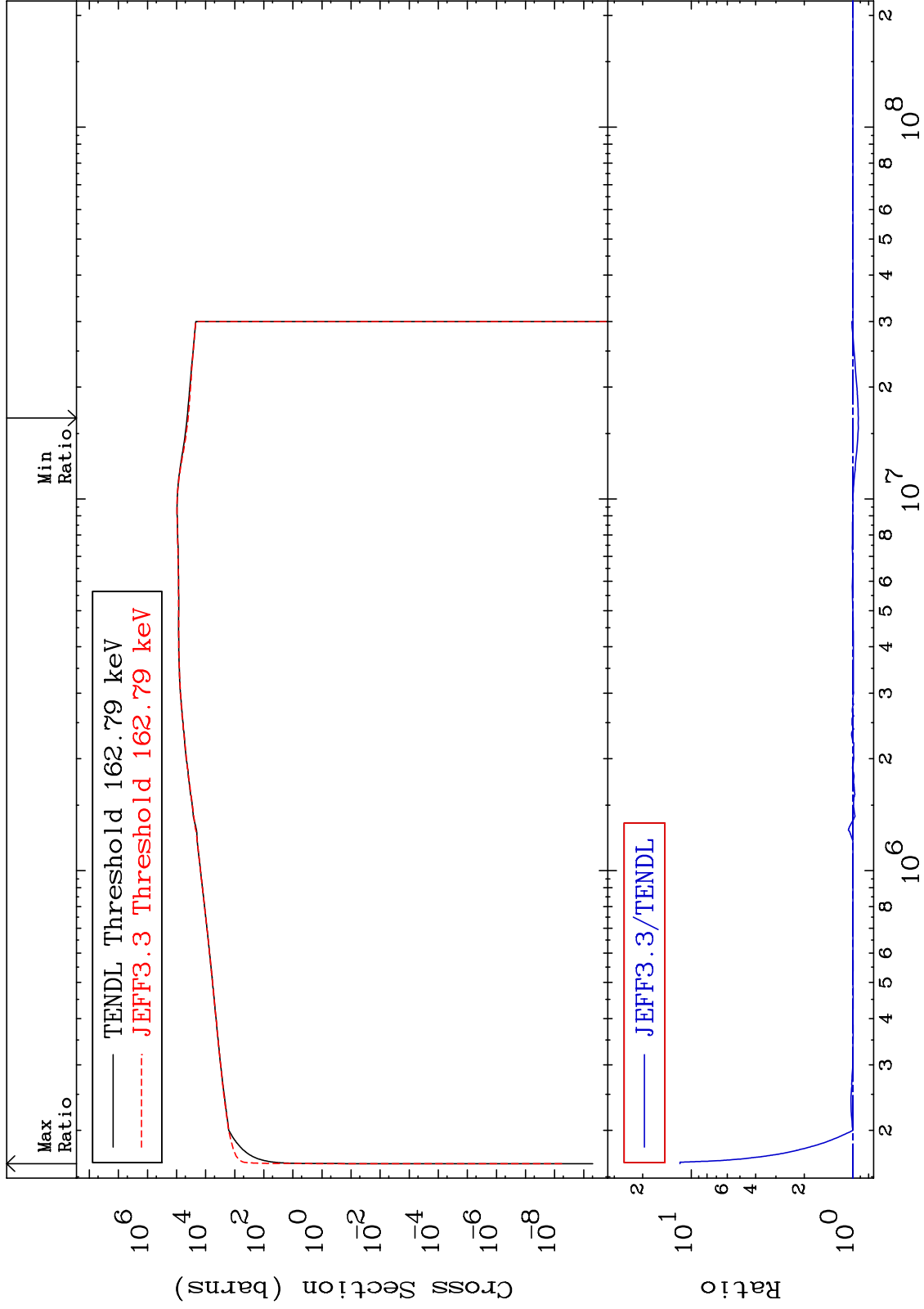
Incident Energy (eV)

22-Ti-47

MAT 2228

Dpa inelastic (mt51-91)
Cross Section

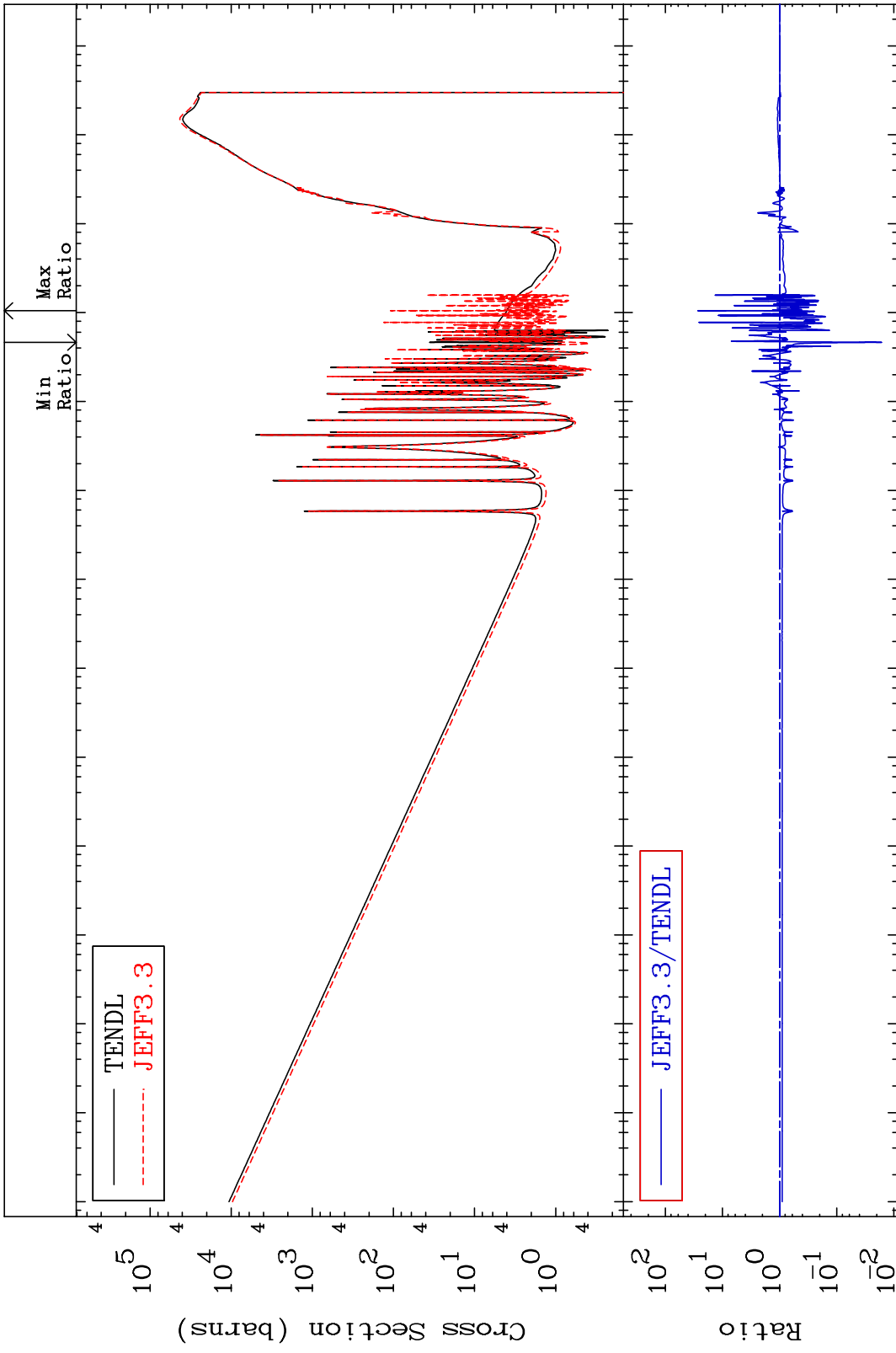
22-Ti-47
-7.534 To 1076. %



MAT 2228

Dpa disappearance (mt102 -120)
Cross Section

22-Ti-47
-98.35 To 2611. %

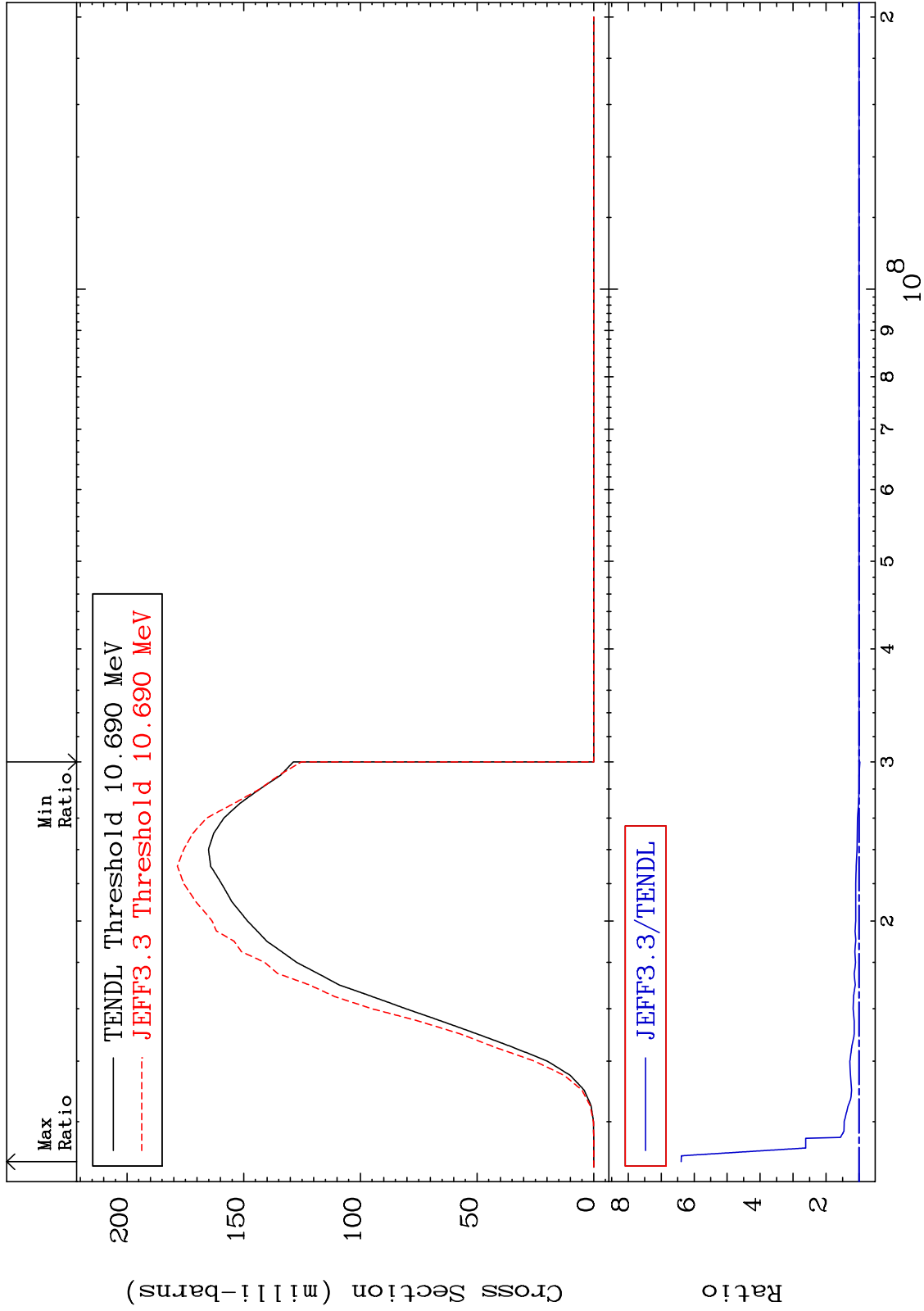


MAT 2228

(n, n') p:21-Sc-46g

22-Ti-47

Radionuclide Production Cross Section -2.603 To 539.2 %



76

Incident Energy (eV)

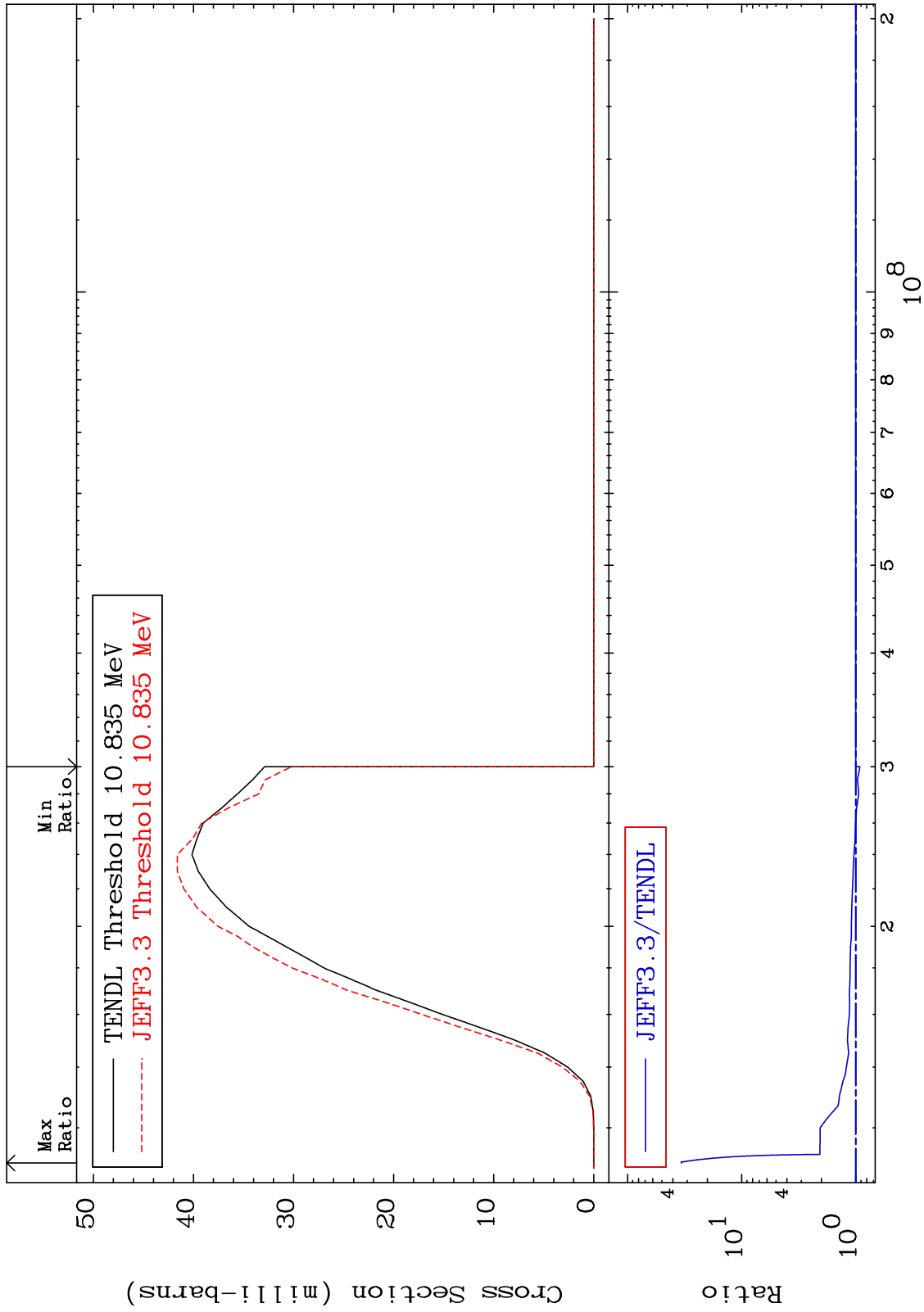
22-Ti-47

MAT 2228

(n, n') p:21-Sc-46m2

22-Ti-47

Radionuclide Production Cross Section -8.204 To 3283. %

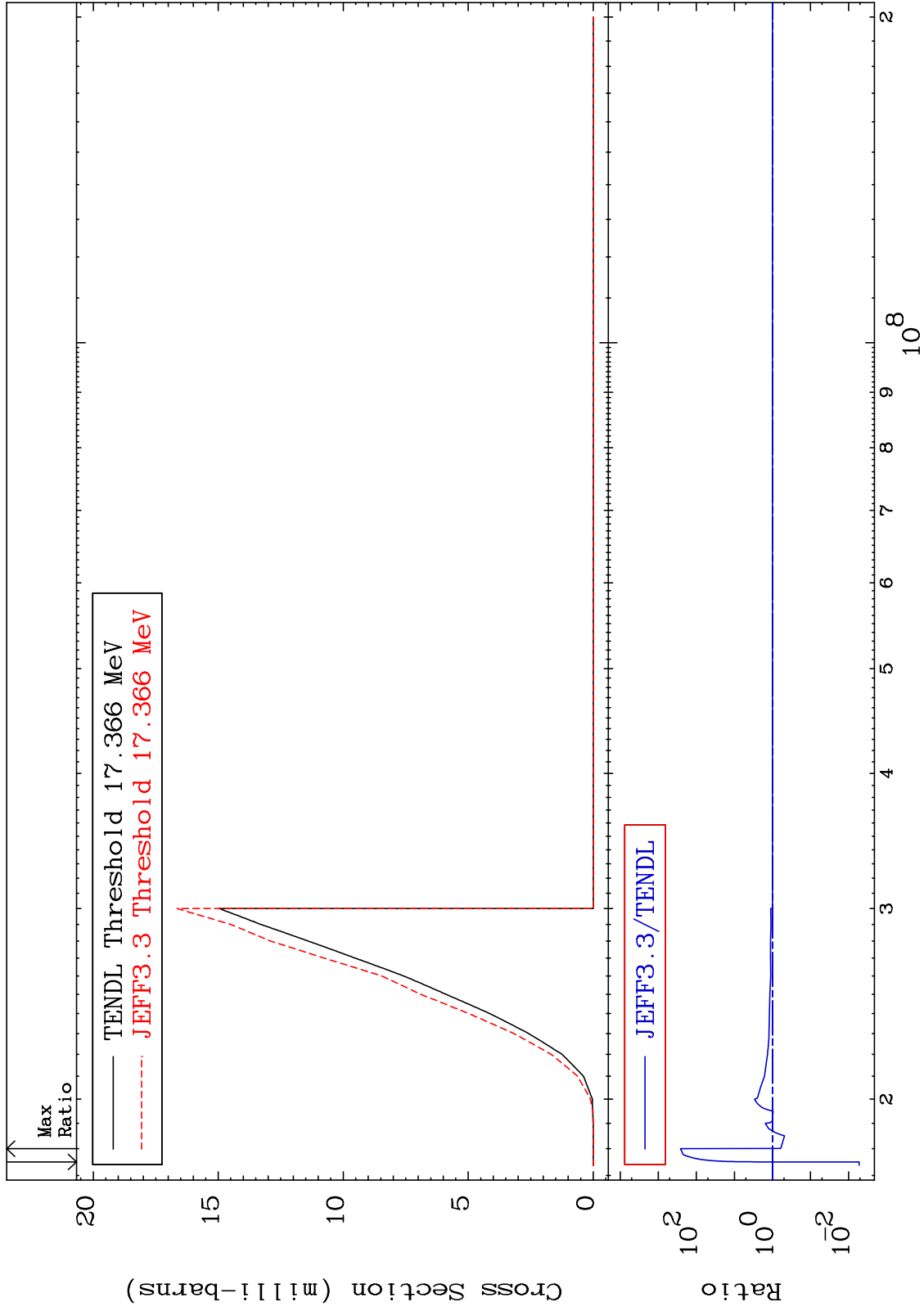


MAT 2228

(n, n') d:21-Sc-45g

22-Ti-47

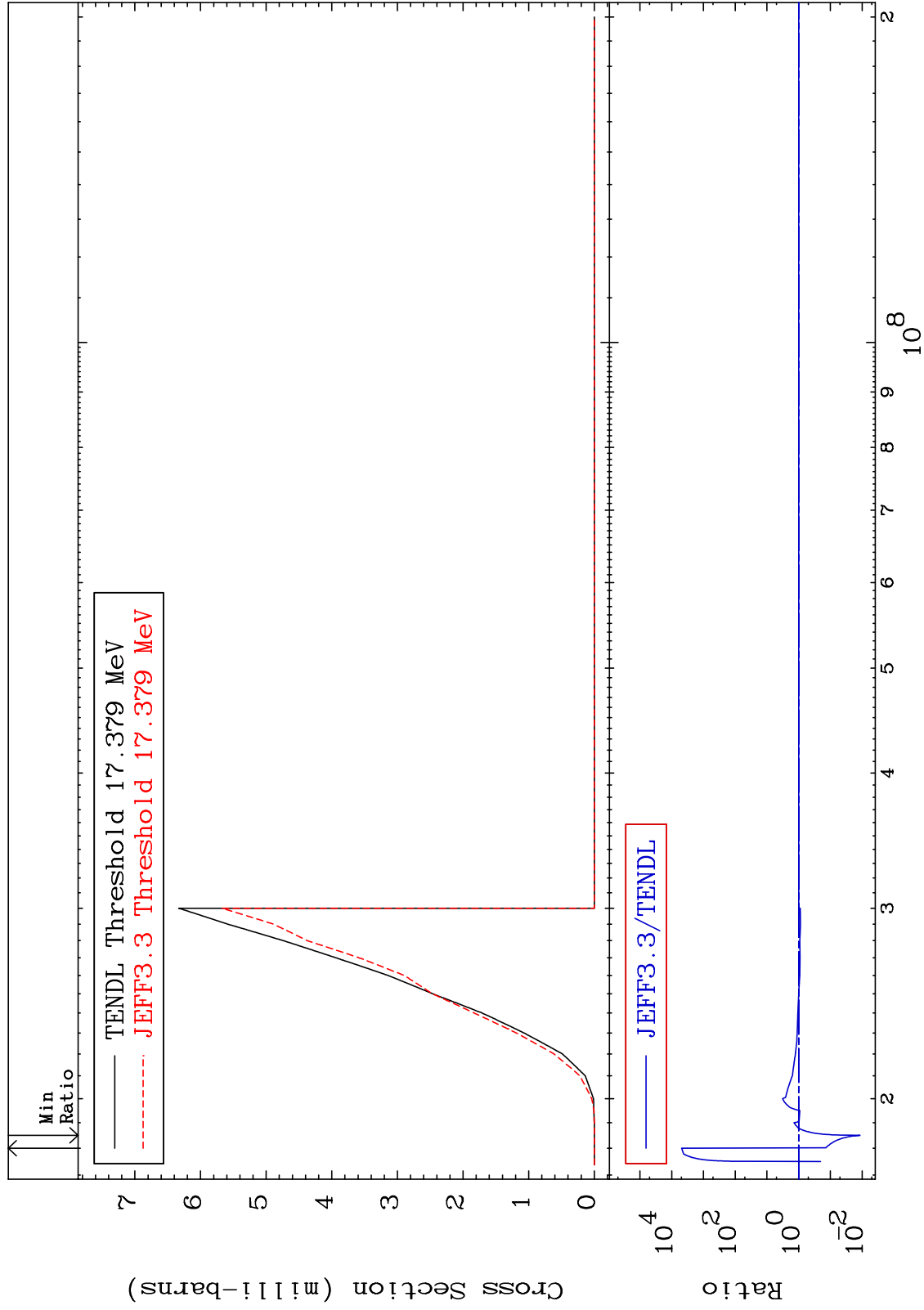
Radionuclide Production Cross Section -99.47 To 9999. %



78

Incident Energy (eV)

22-Ti-47



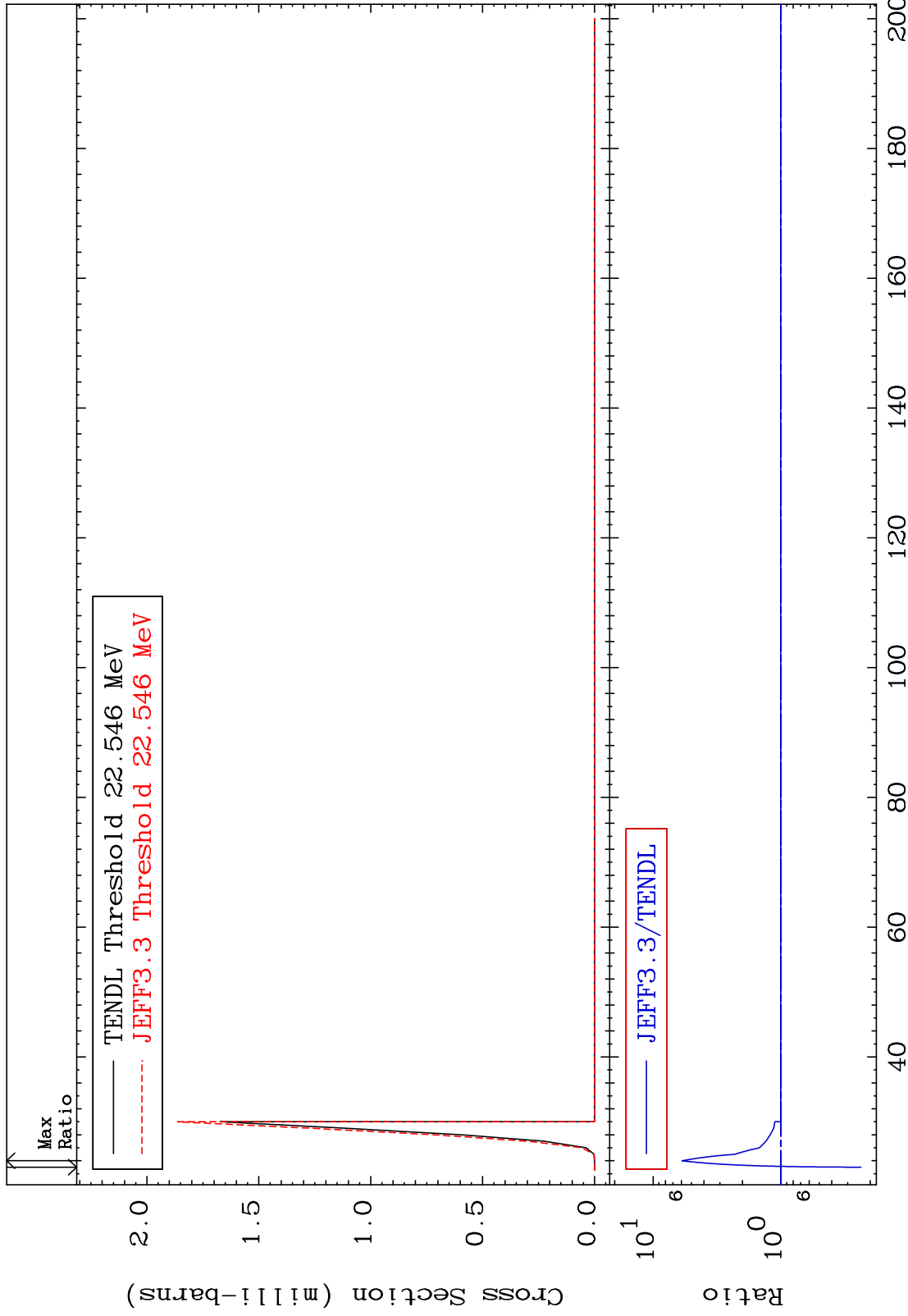
MAT 2228

(n, n') t:21-Sc-44g

22-Ti-47

Radionuclide Production Cross Section

-76.46 To 492.6 %



80

Incident Energy (MeV)

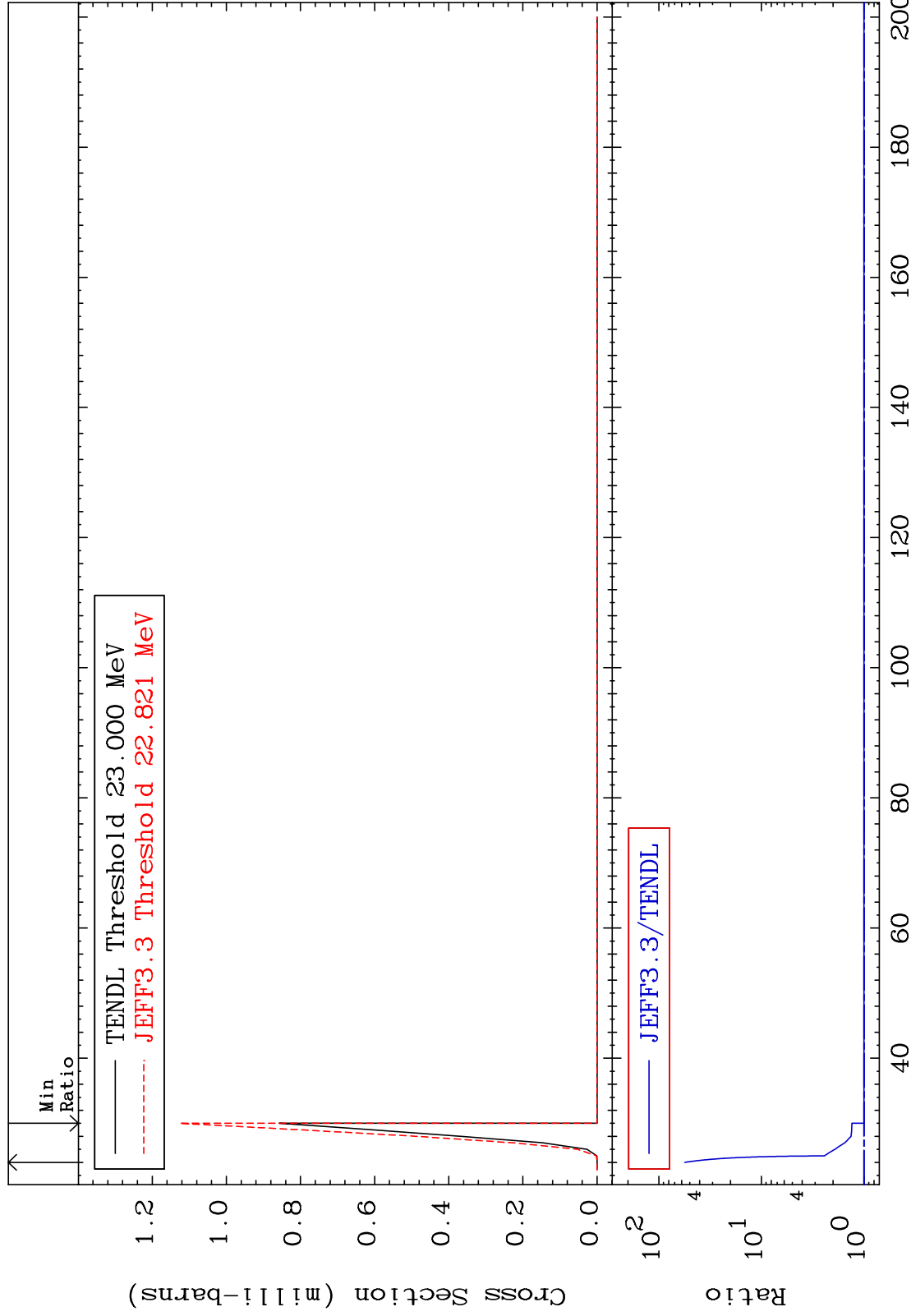
22-Ti-47

MAT 2228

(n, n') t:21-Sc-44m4

22-Ti-47

Radionuclide Production Cross Section 0.000 To 5480. %

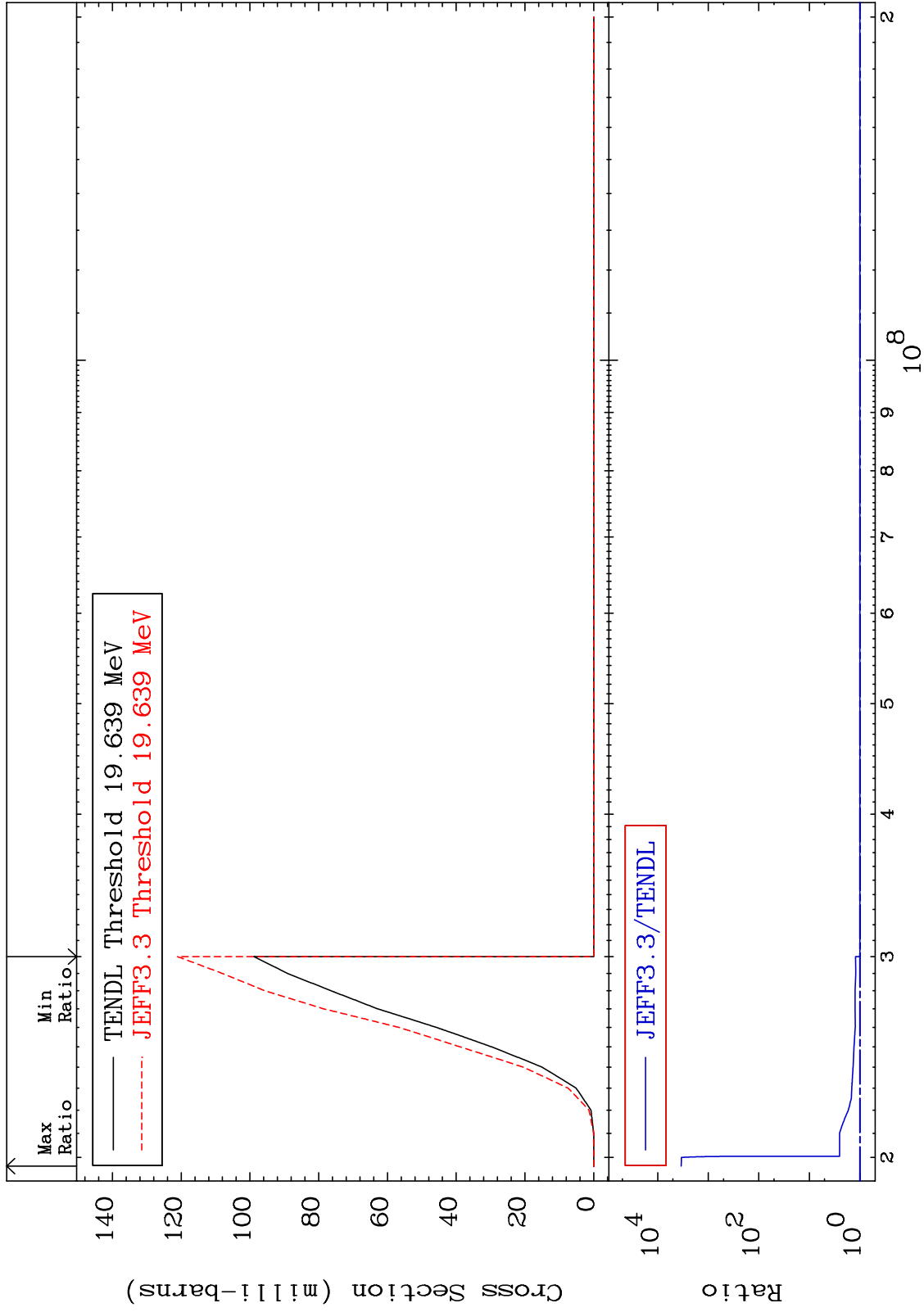


MAT 2228

(n,2n) p:21-Sc-45g

22-Ti-47

Radionuclide Production Cross Section 0.000 To 9999. %

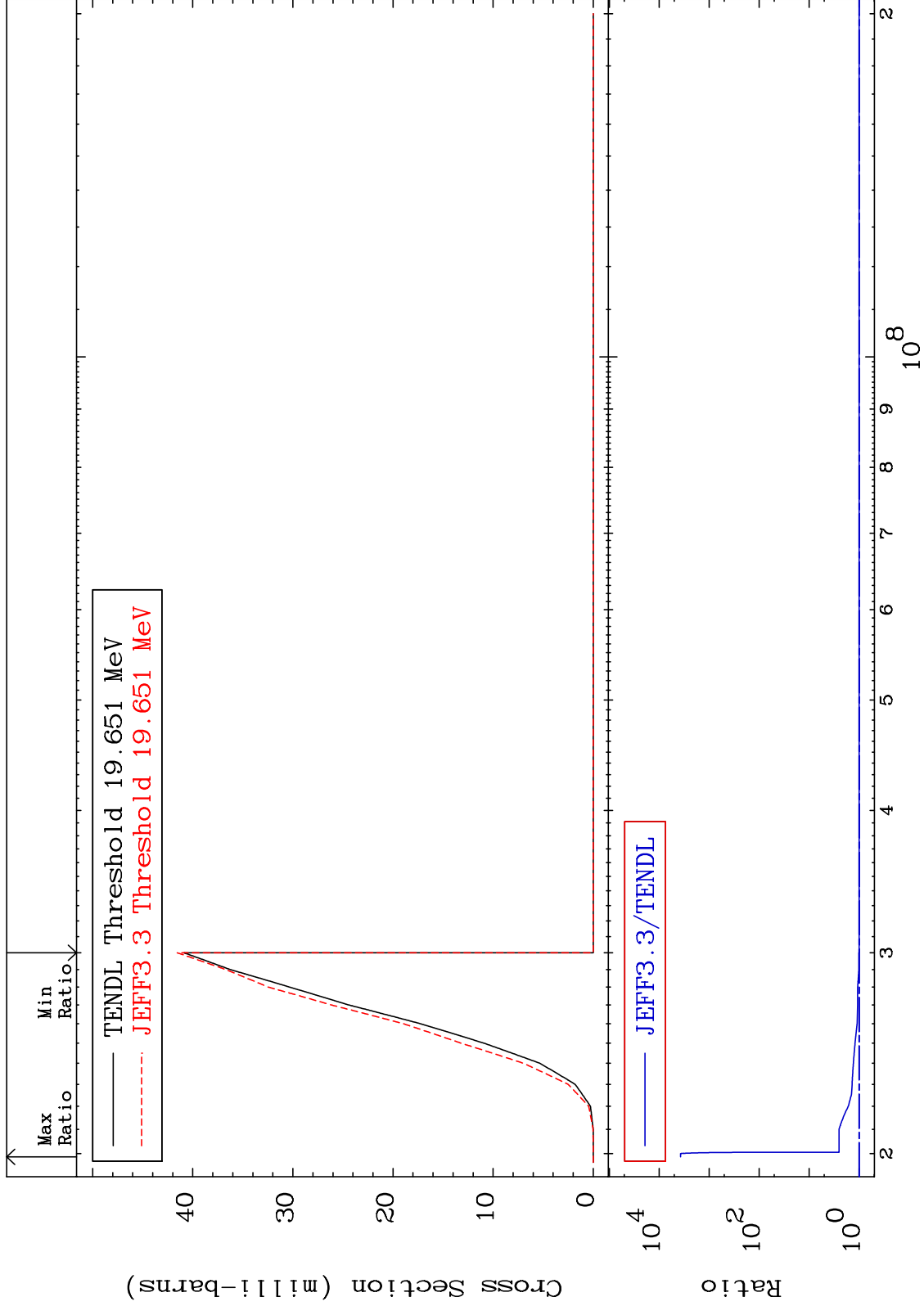


MAT 2228

(n,2n) p:21-Sc-45m1

22-Ti-47

Radionuclide Production Cross Section 0.000 To 9999. %

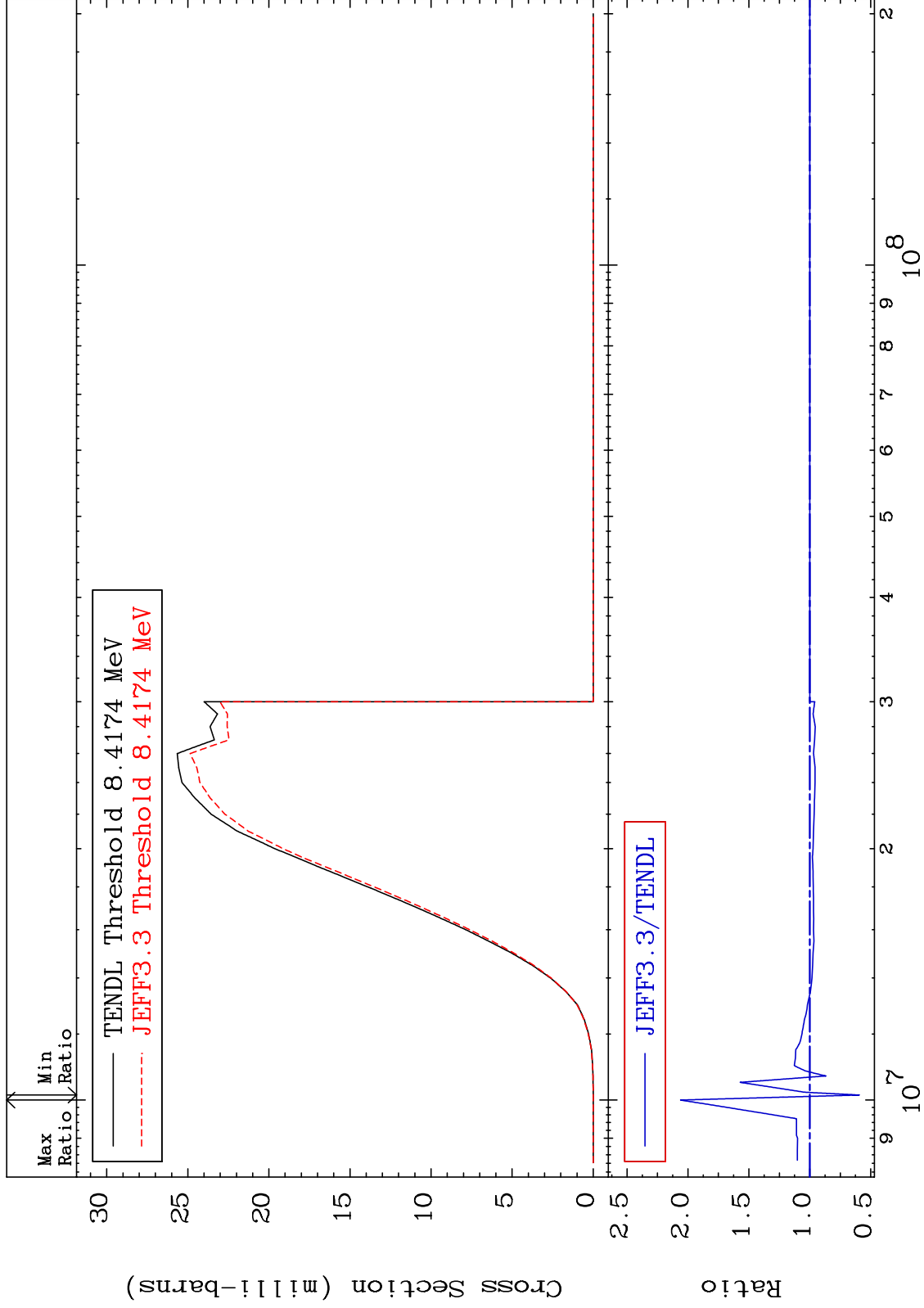


MAT 2228

22-Ti-47

(n,d):21-Sc-46g

Radionuclide Production Cross Section -40.51 To 106.0 %

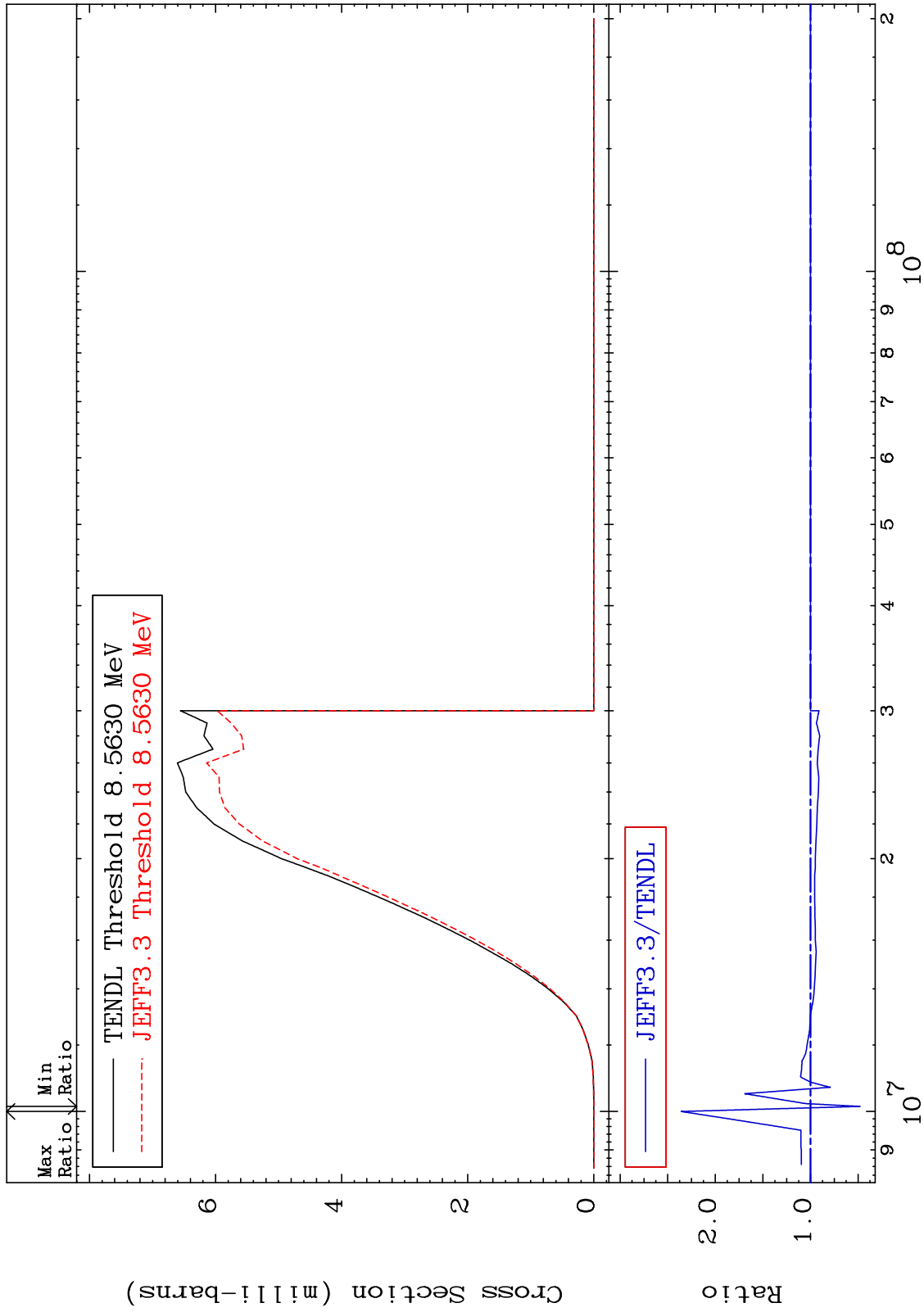


MAT 2228

(n,d):21-Sc-46m2

22-Ti-47

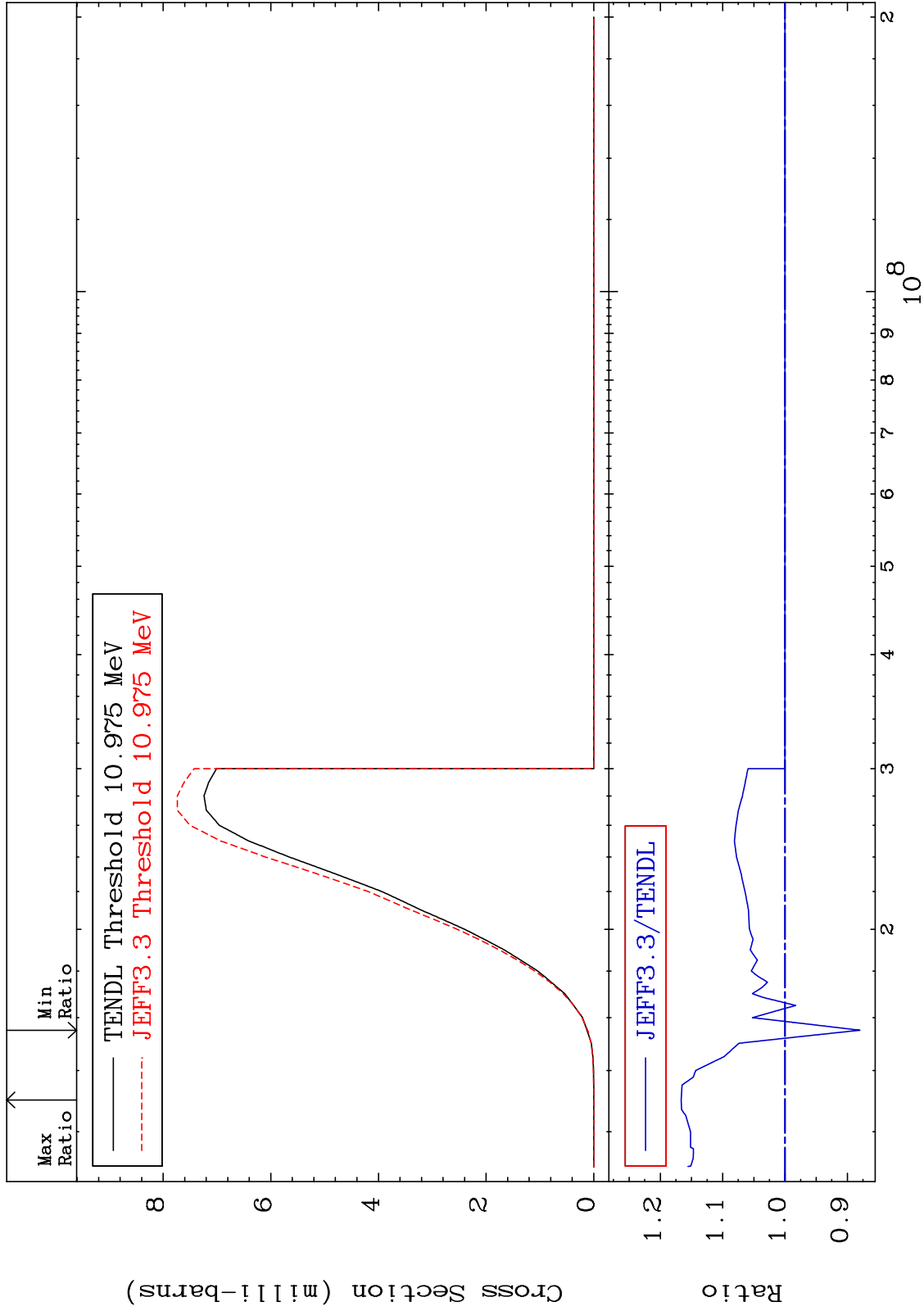
Radionuclide Production Cross Section -51.91 To 135.8 %



85

Incident Energy (eV)

22-Ti-47



MAT 2228

(n, t):21-Sc-45m1

22-Ti-47

Radionuclide Production Cross Section -17.07 To 17.18 %

