

Program Complot
(Version 2021-1)

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

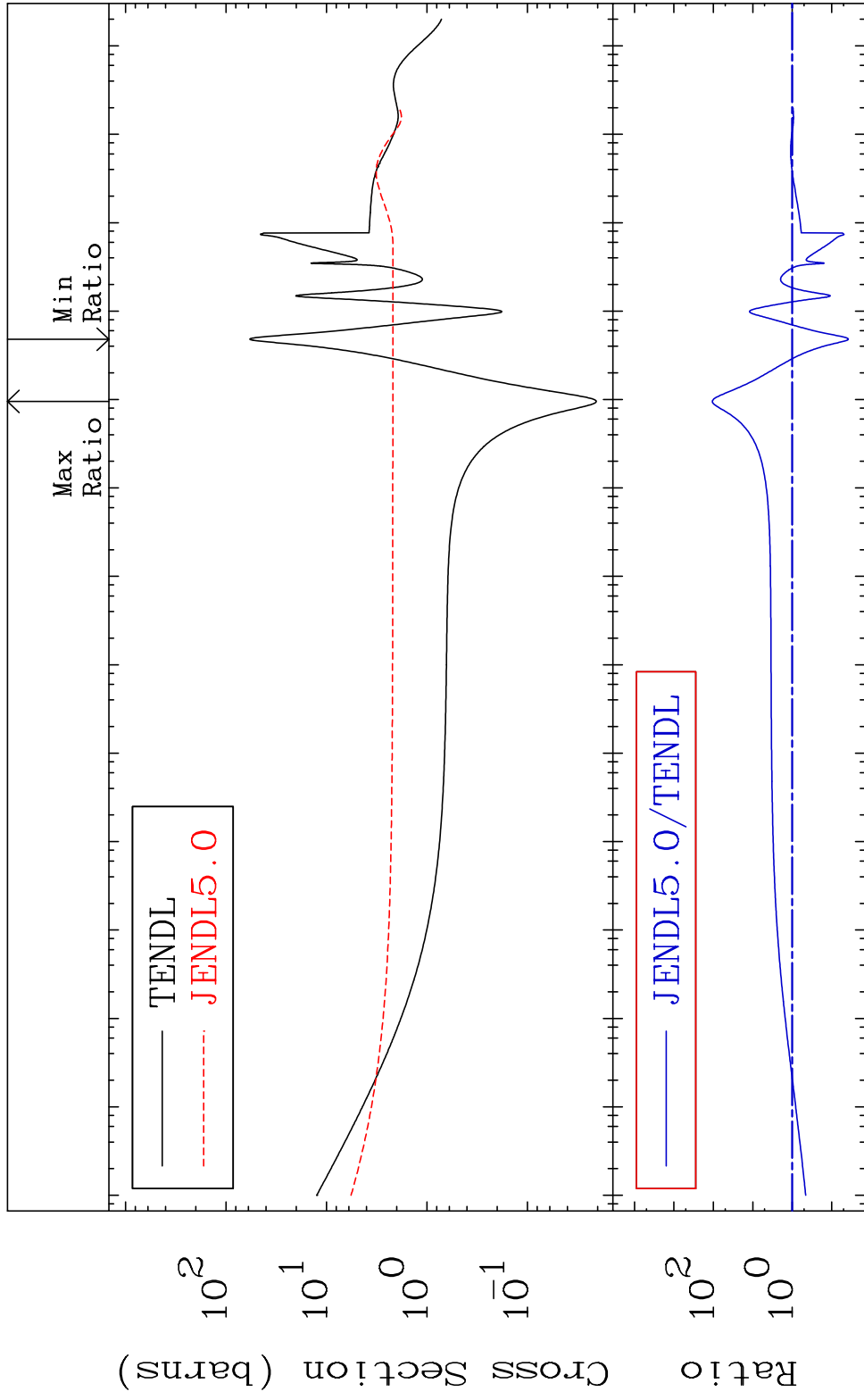
Press Mouse Button to Start

MAT 1637

Total

16-S -36

Cross Section -96.23 To 9999. %



1

Incident Energy (eV)

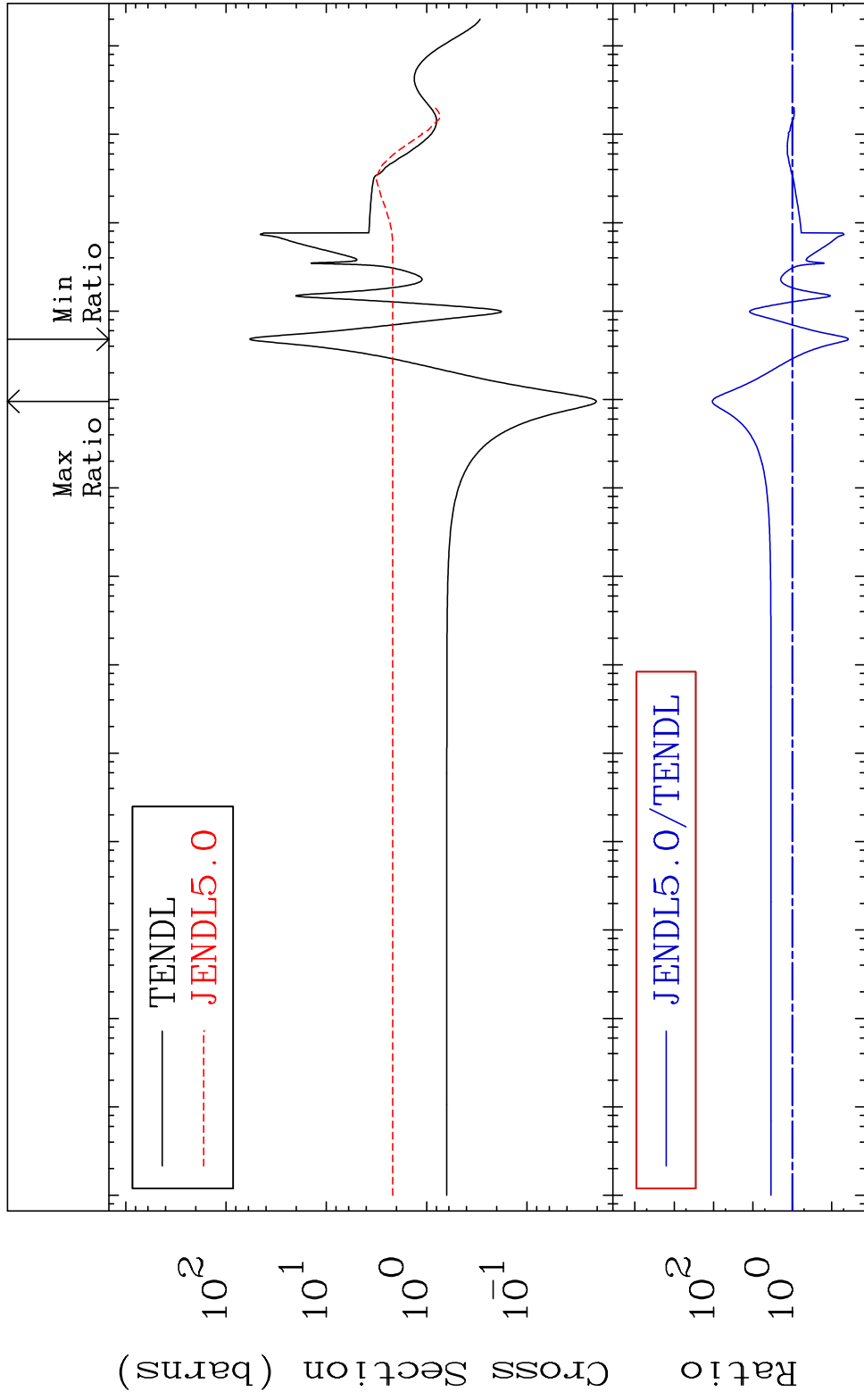
16-S -36

MAT 1637

Elastic

16-S -36

Cross Section -96.23 To 9999. %



Cross Section (barns)

Ratio

10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

2

Incident Energy (eV)

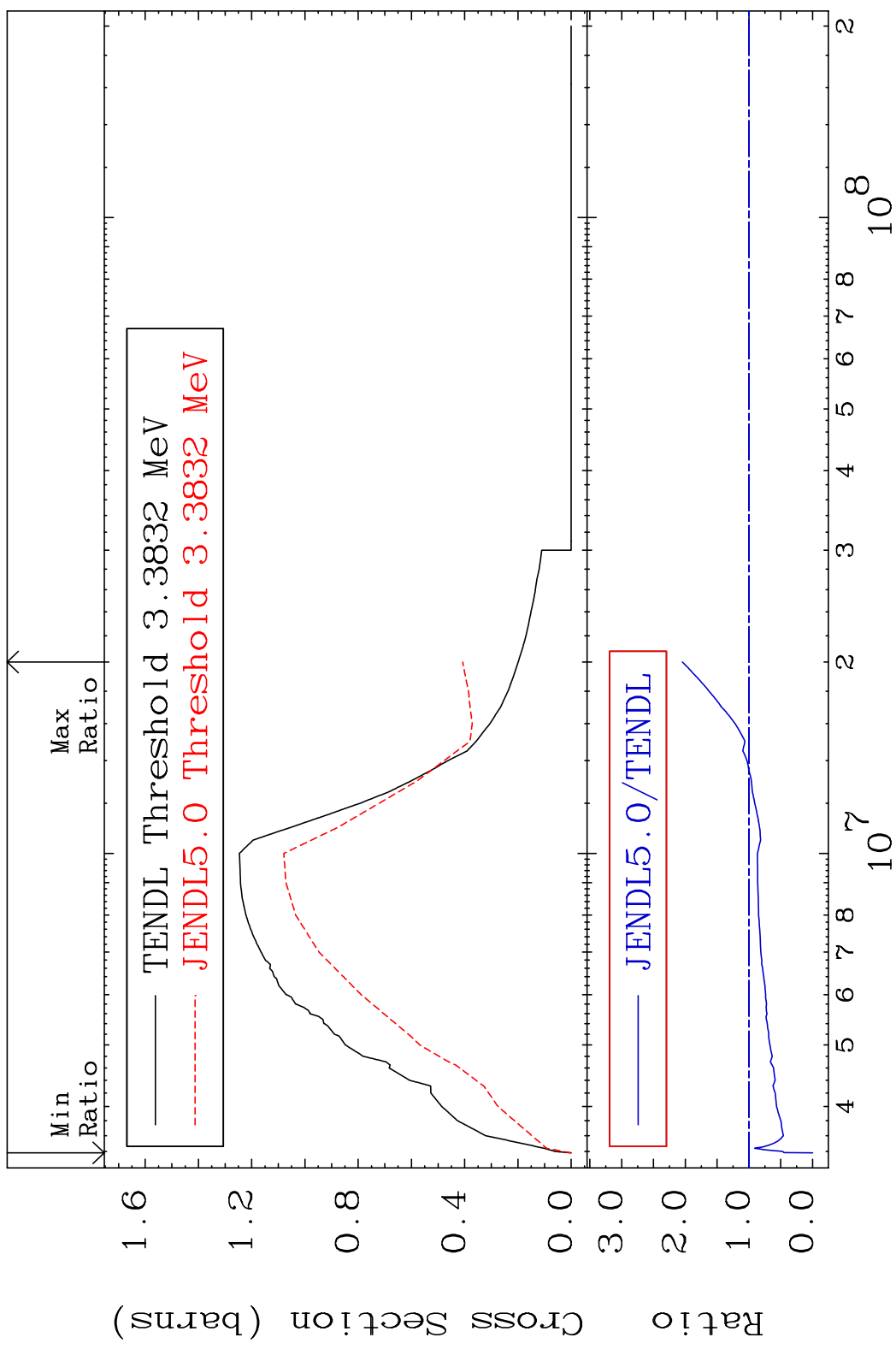
16-S -36

MAT 1637

Inelastic

16-S -36

Cross Section -100.0 To 104.7 %

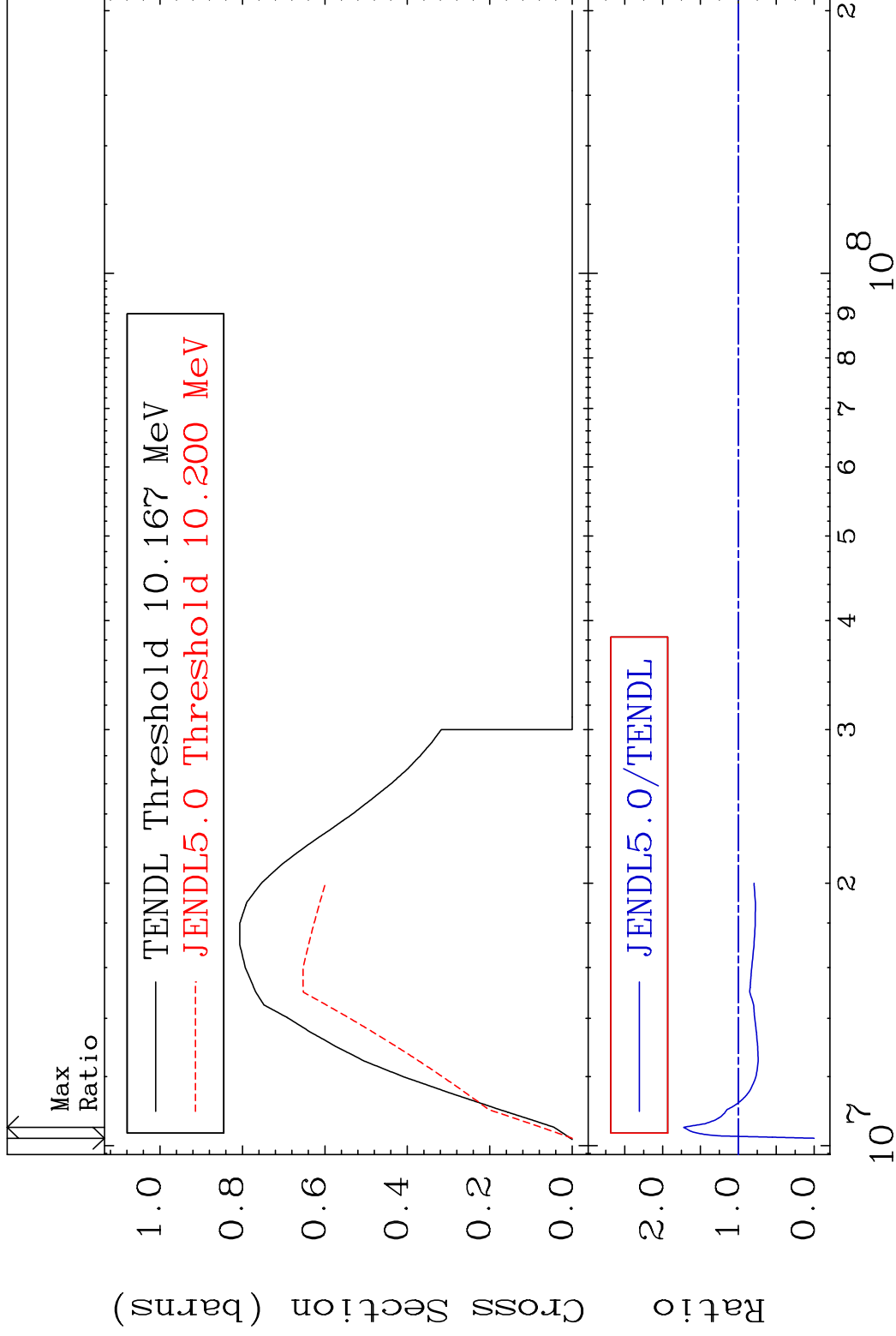


MAT 1637

(n,2n)

16-S -36

Cross Section -100.0 To 72.16 %



4

Incident Energy (eV)

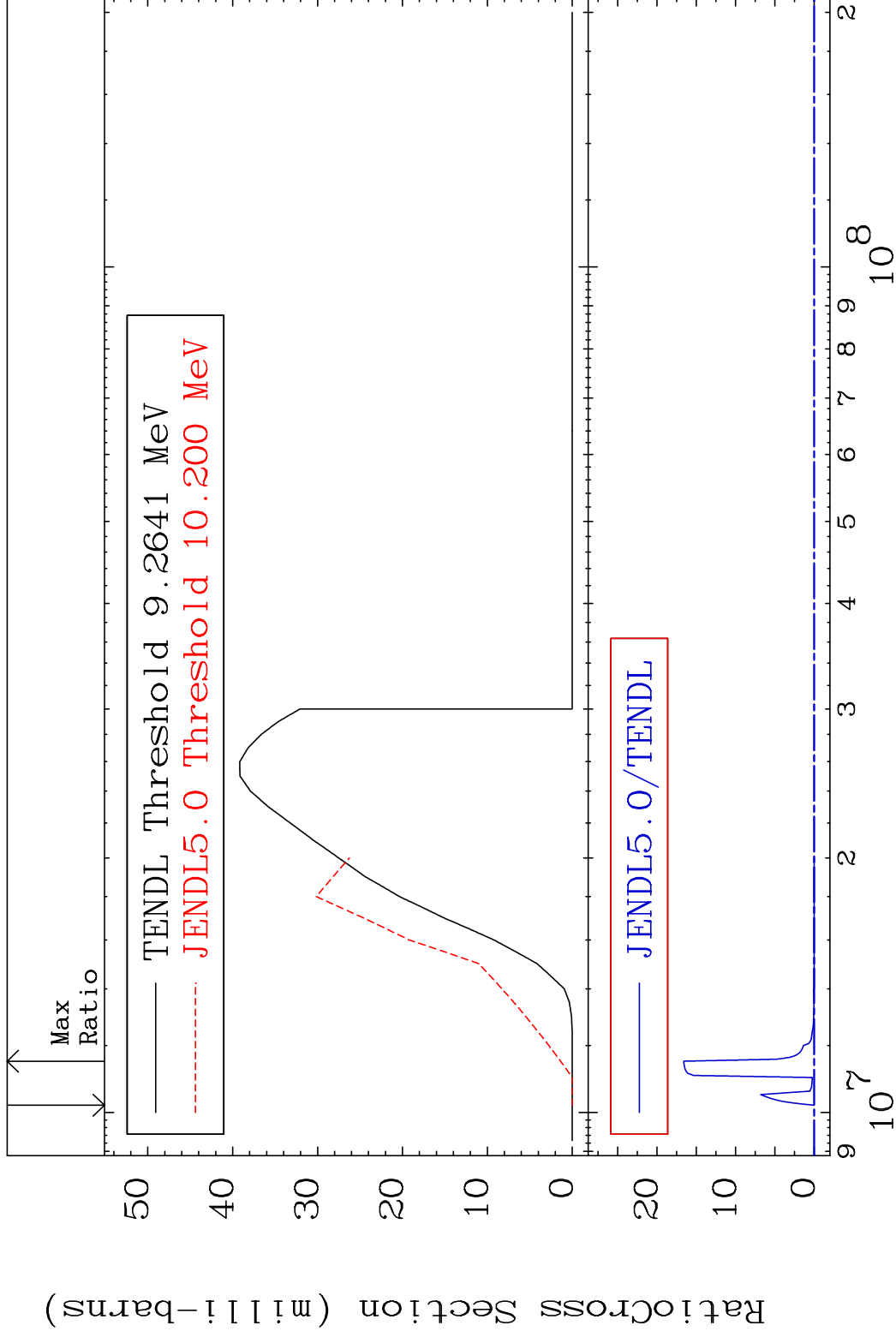
16-S -36

MAT 1637

(n, n') α

16-S -36

Cross Section -100.0 To 9999. %



5

Incident Energy (eV)

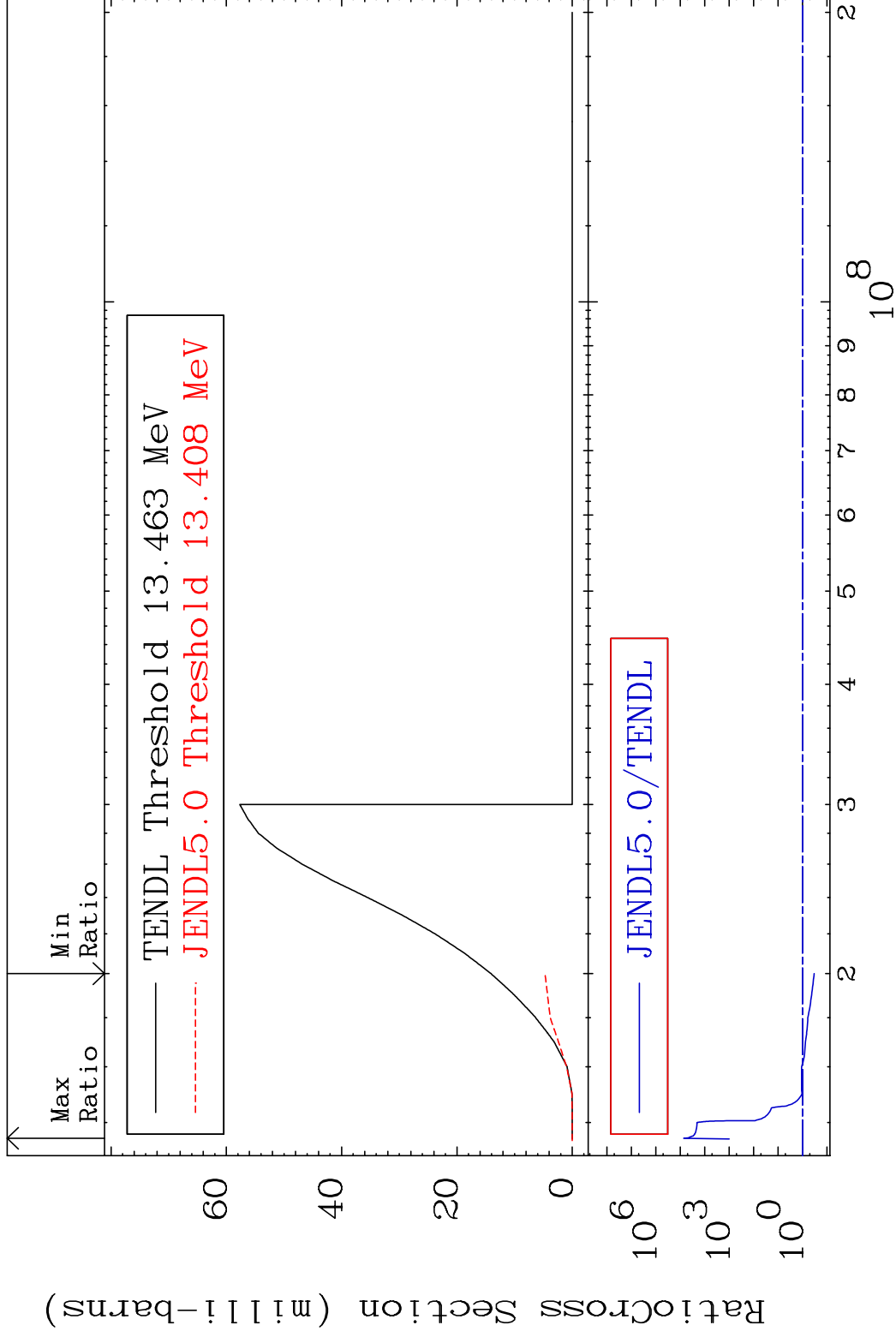
16-S -36

MAT 1637

(n, n') p

16-S -36

Cross Section -66.41 To 9999. %

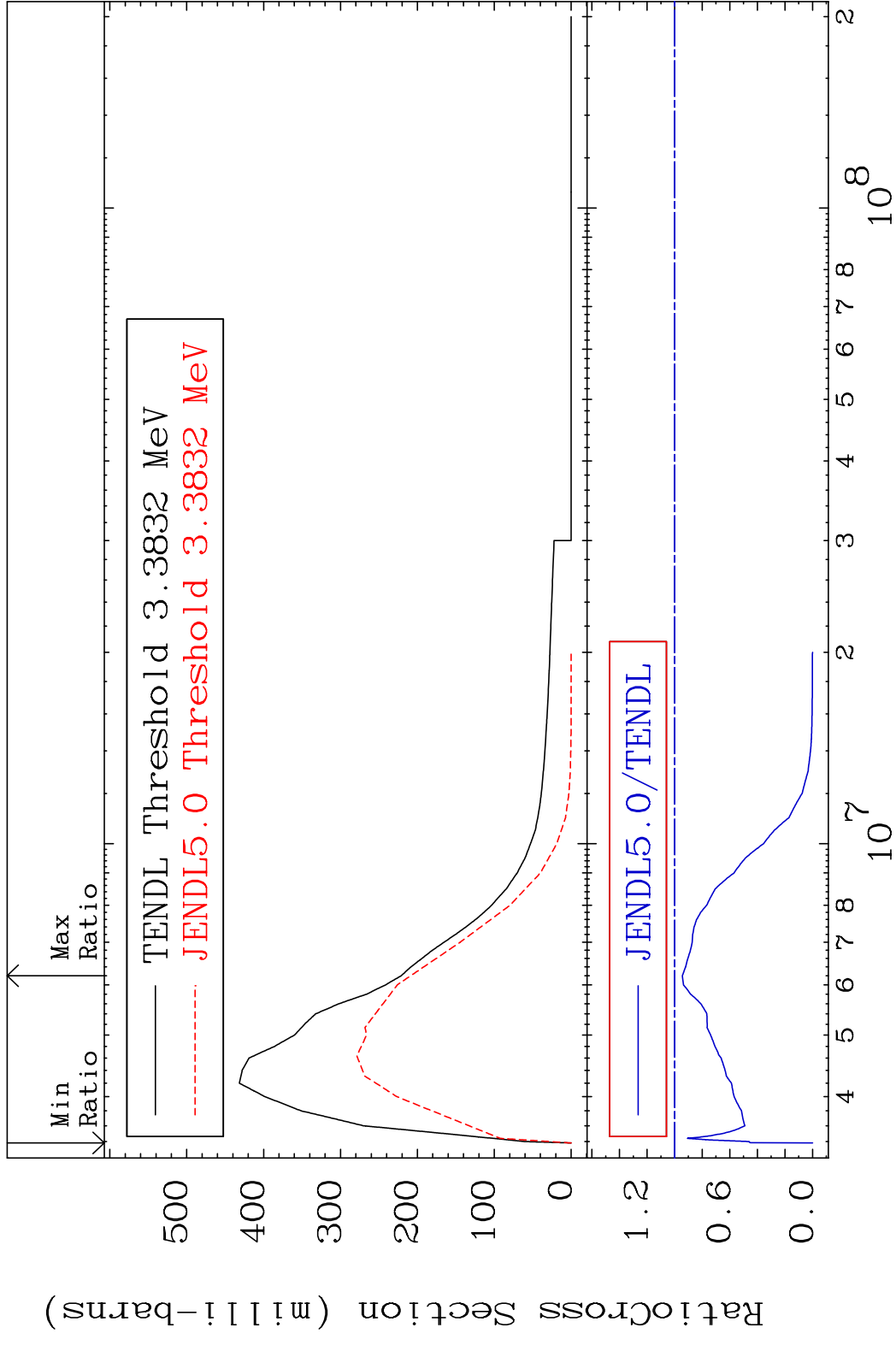


6

Incident Energy (eV)

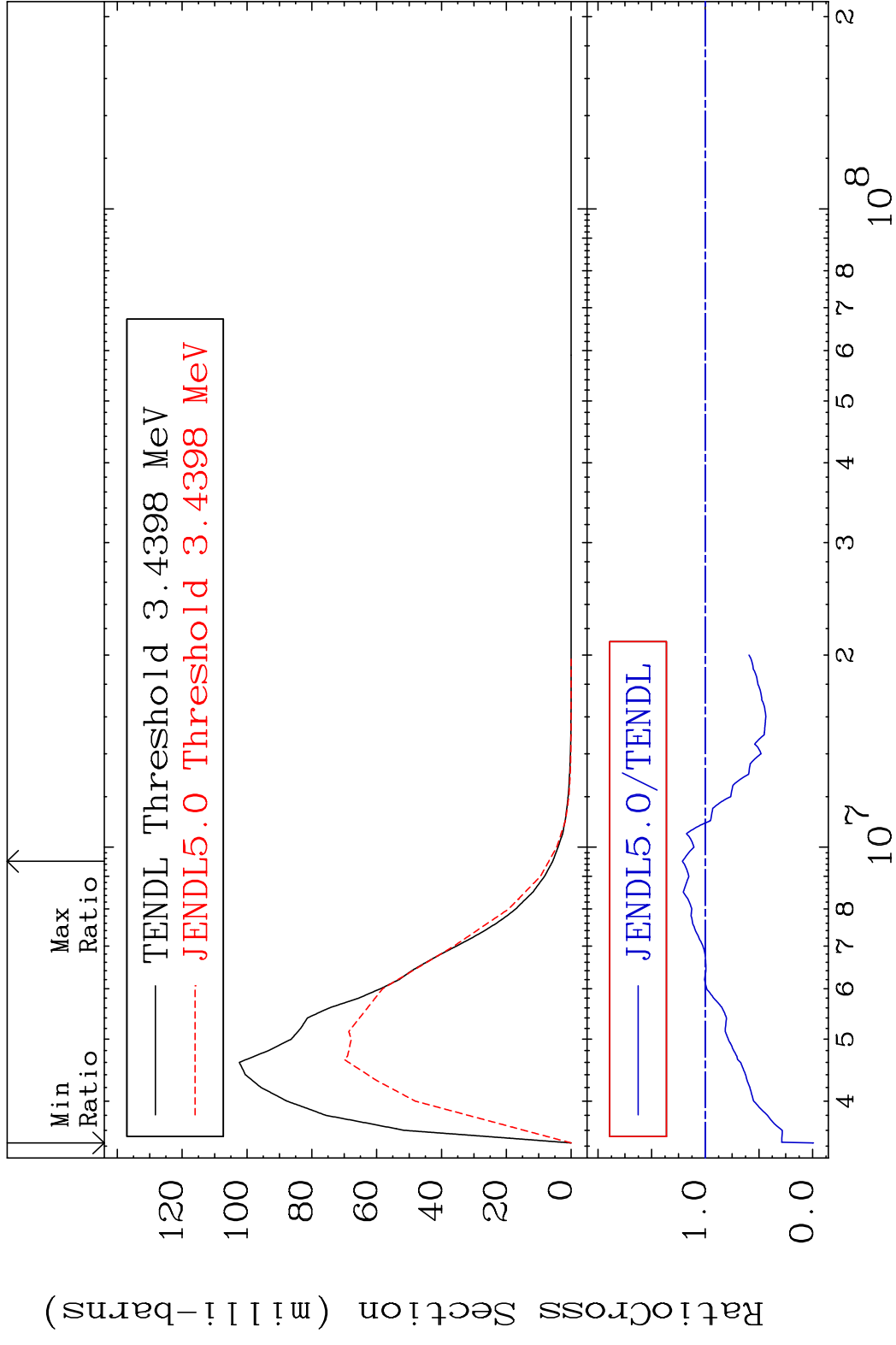
16-S -36

MAT 1637 MT= 51 (n,n') Level 16-S -36
 Cross Section -100.0 To -5.600%



7 Incident Energy (eV) 16-S -36

MAT 1637 MT= 52 (n,n') Level 16-S -36
 Cross Section -100.0 To 21.40 %

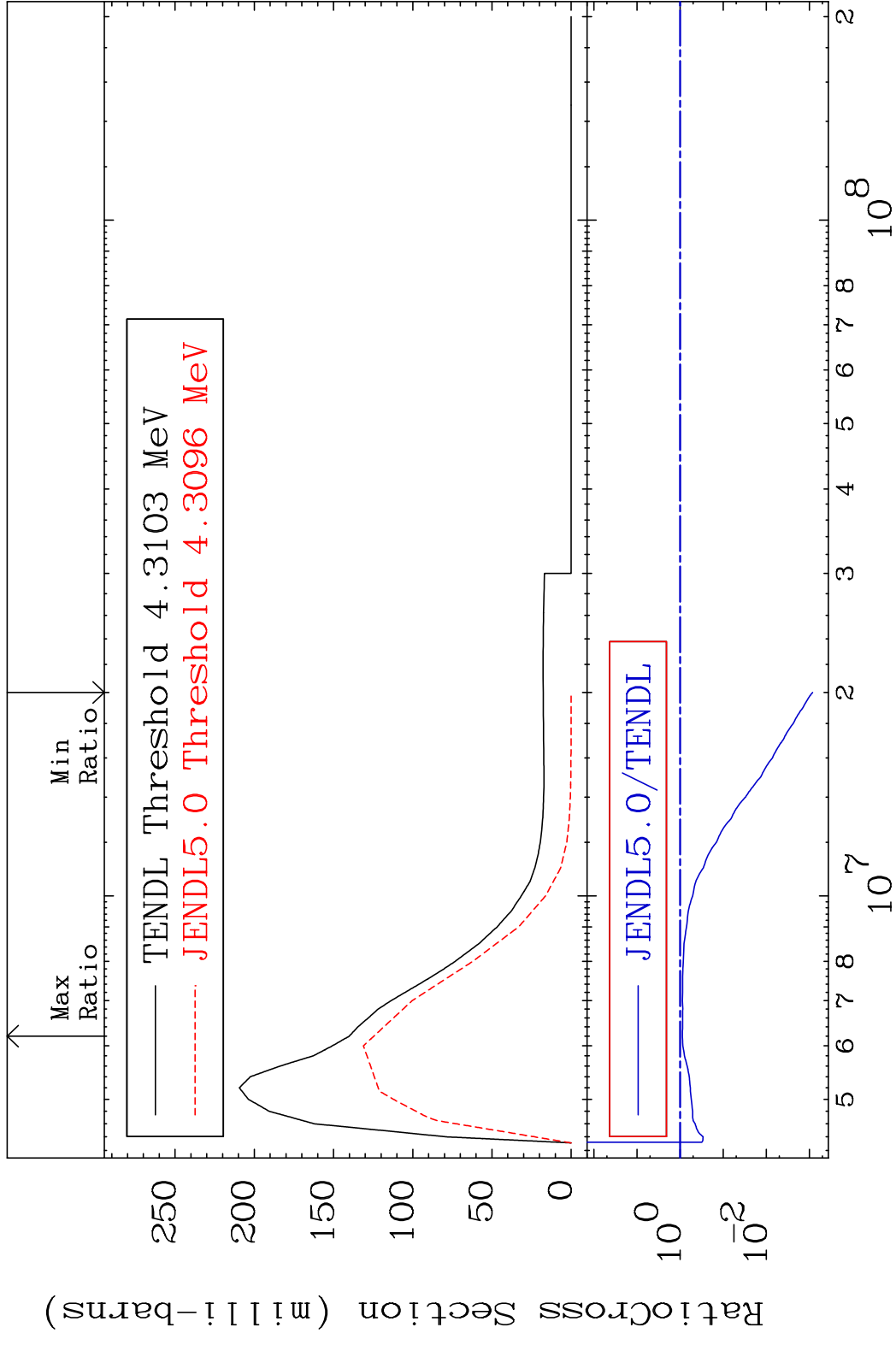


MAT 1637

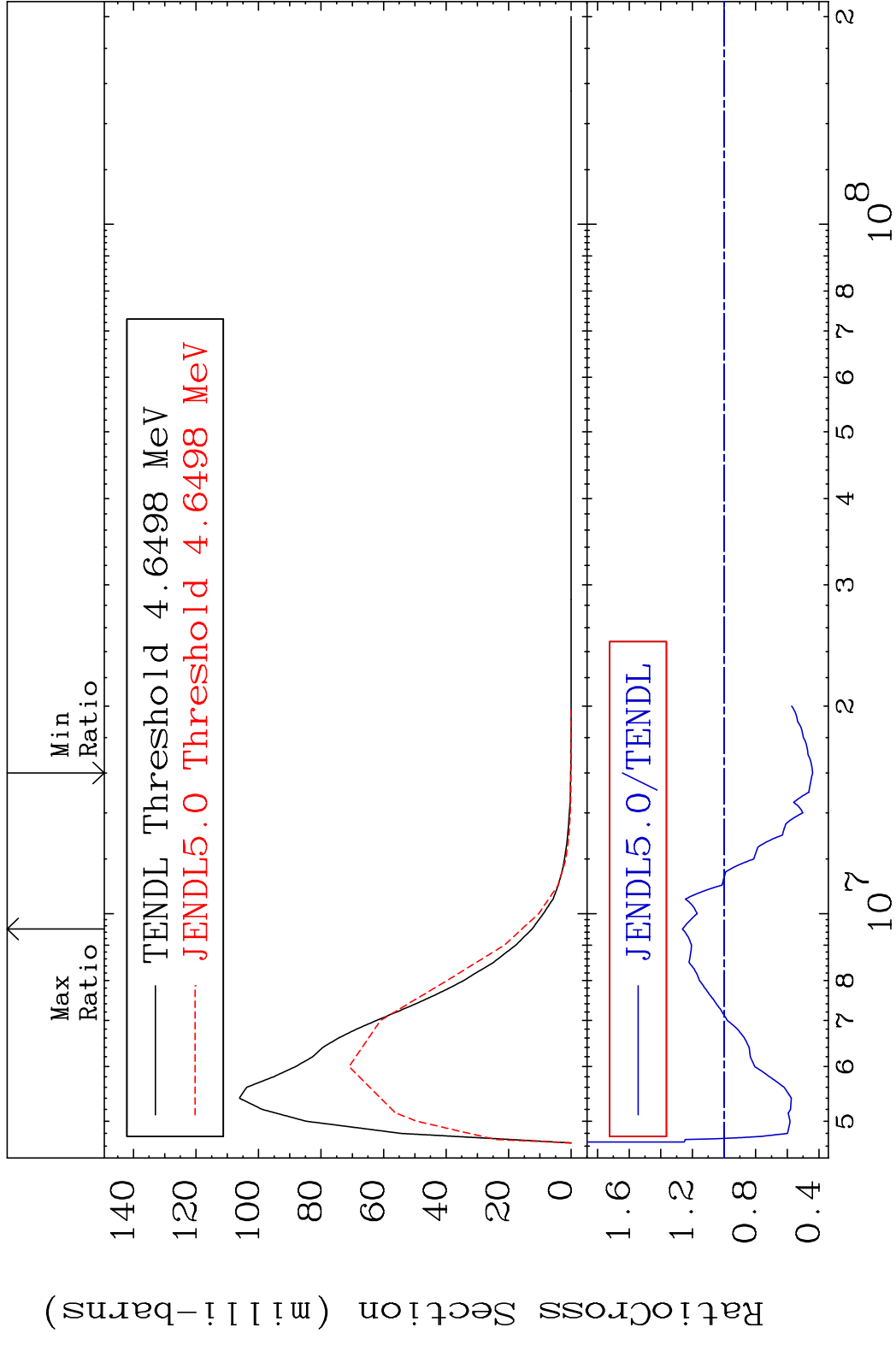
MT= 53 (n, n') Level

16-S -36

Cross Section -99.92 To -11.06%



MAT 1637 MT= 54 (n, n') Level 16-S -36
 Cross Section -55.97 To 26.36 %



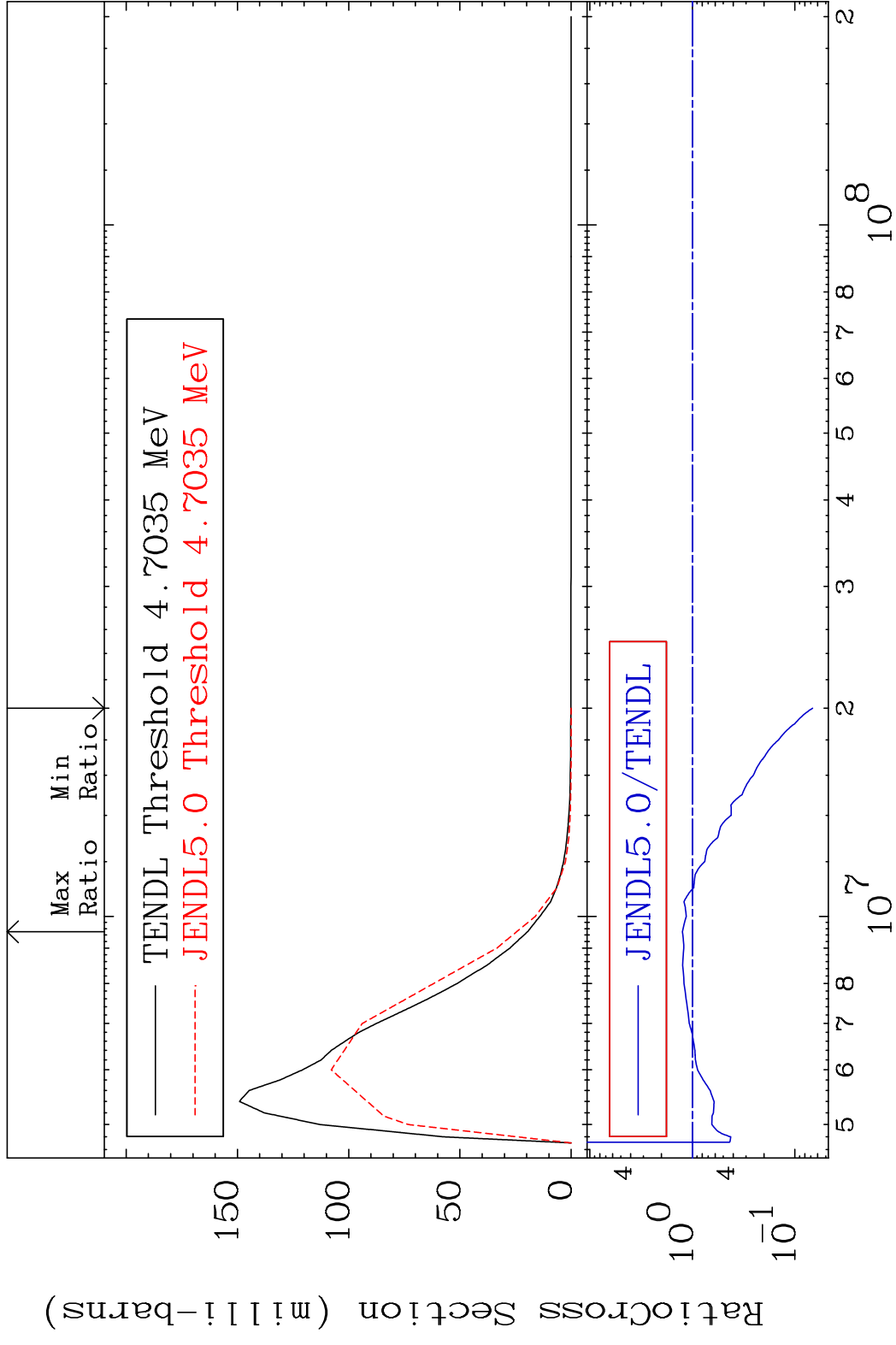
10 16-S -36

MAT 1637

MT= 55 (n,n') Level

16-S -36

Cross Section -93.27 To 25.25 %



11

Incident Energy (eV)

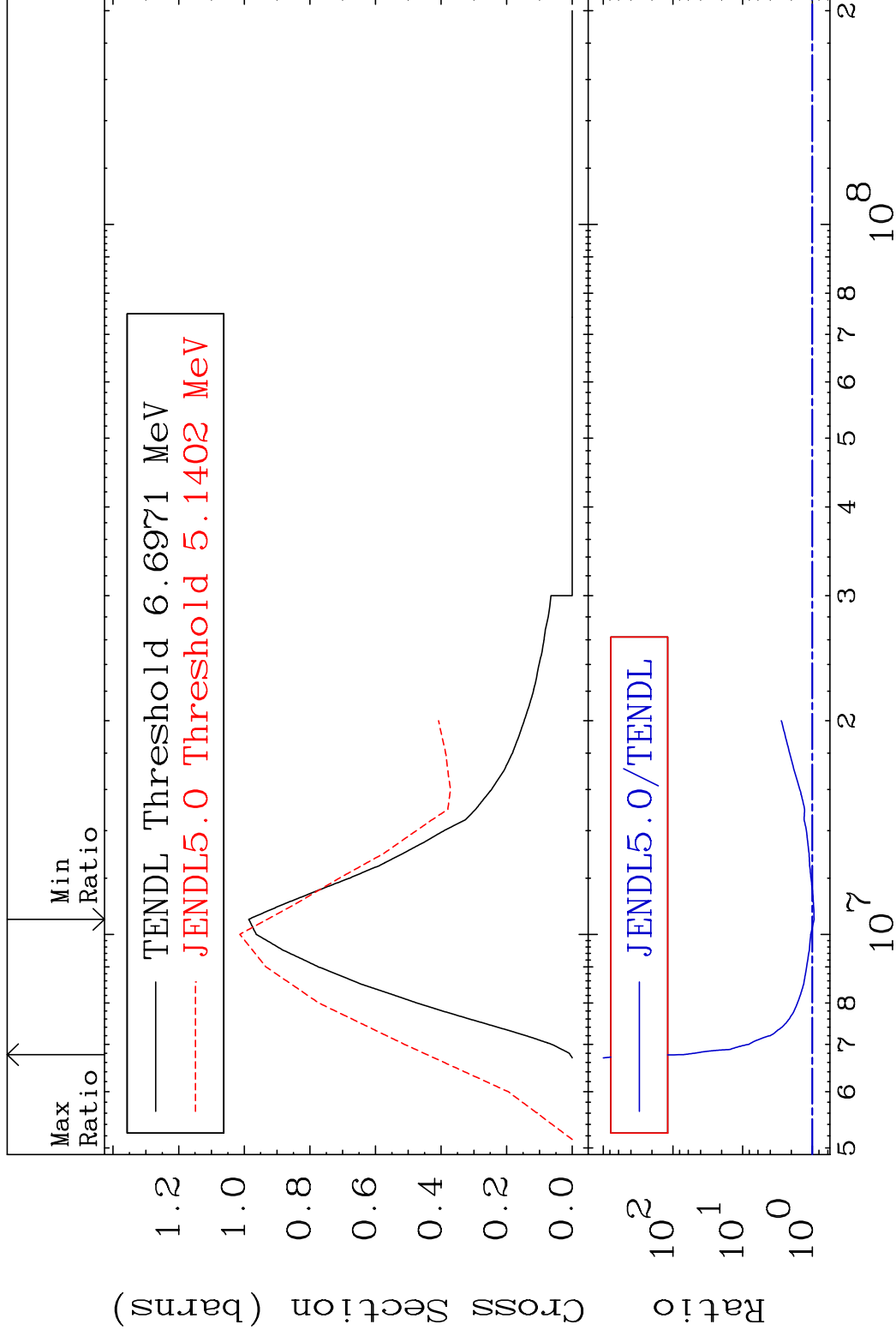
16-S -36

MAT 1637

(n,n') Continuum

16-S -36

Cross Section -5.772 To 6907. %



12

Incident Energy (eV)

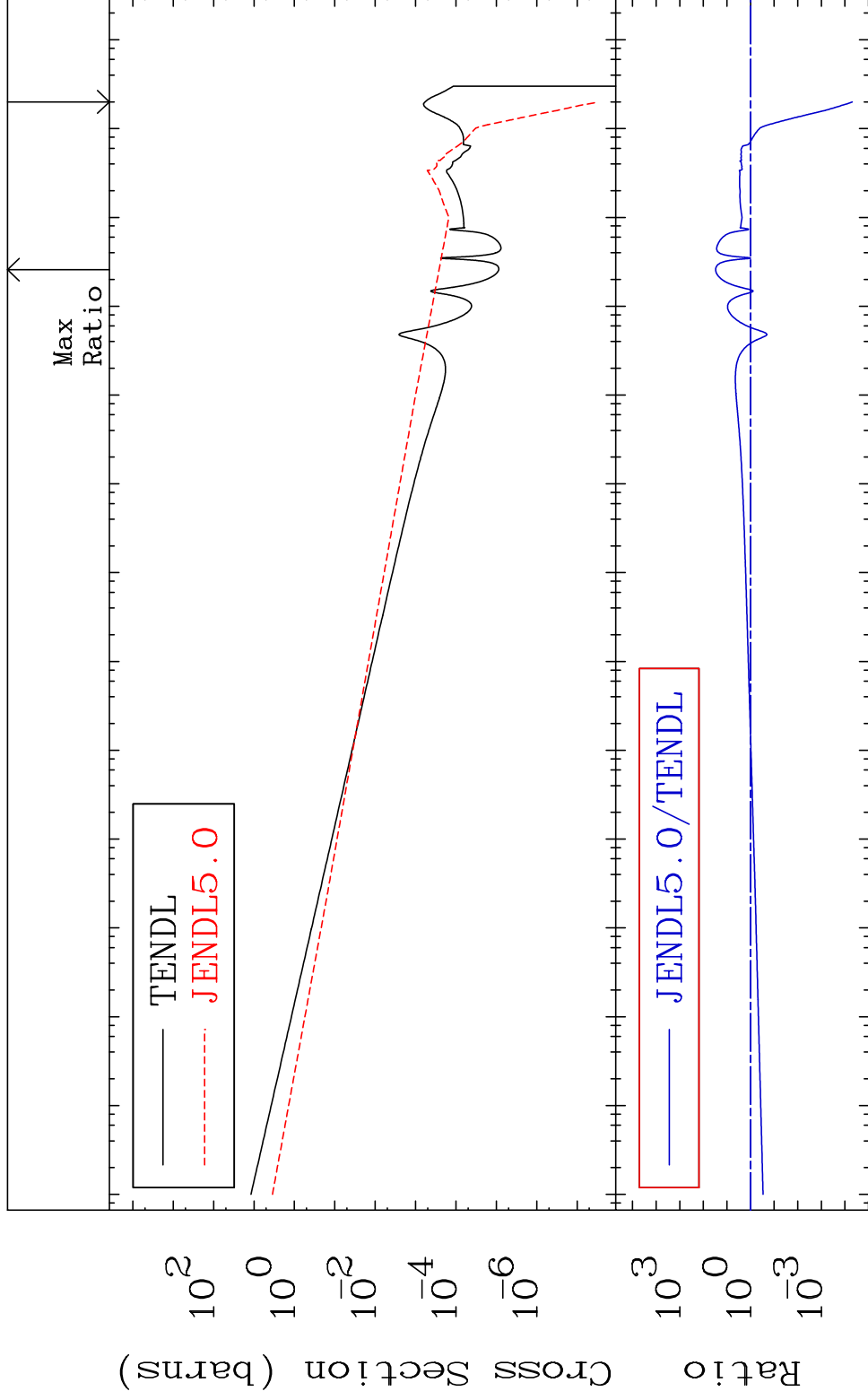
16-S -36

MAT 1637

(n, γ)

16-S -36

Cross Section -100.0 To 2899. %



13

Incident Energy (eV)

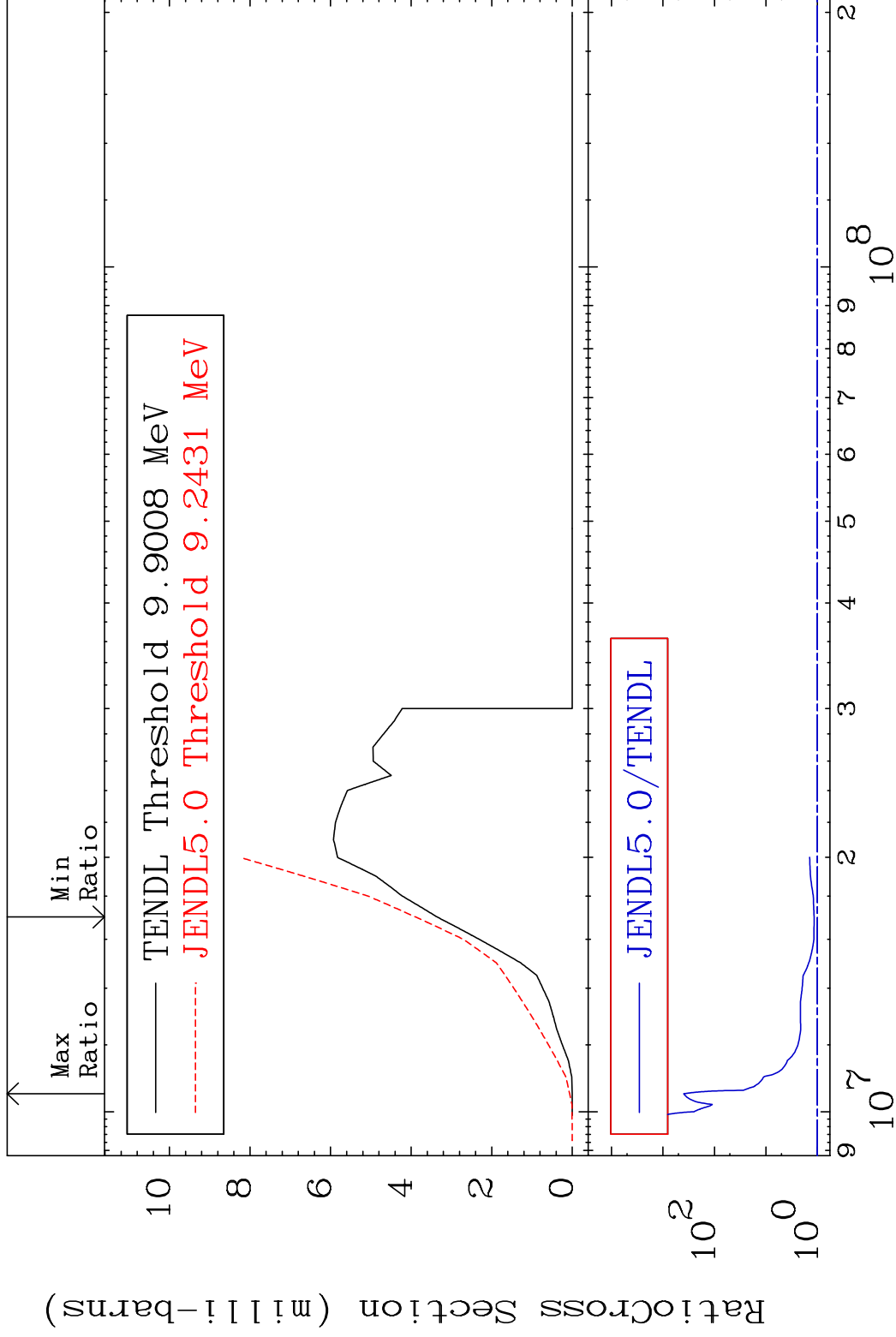
16-S -36

MAT 1637

(n,p)

16-S -36

Cross Section 15.97 To 9999. %

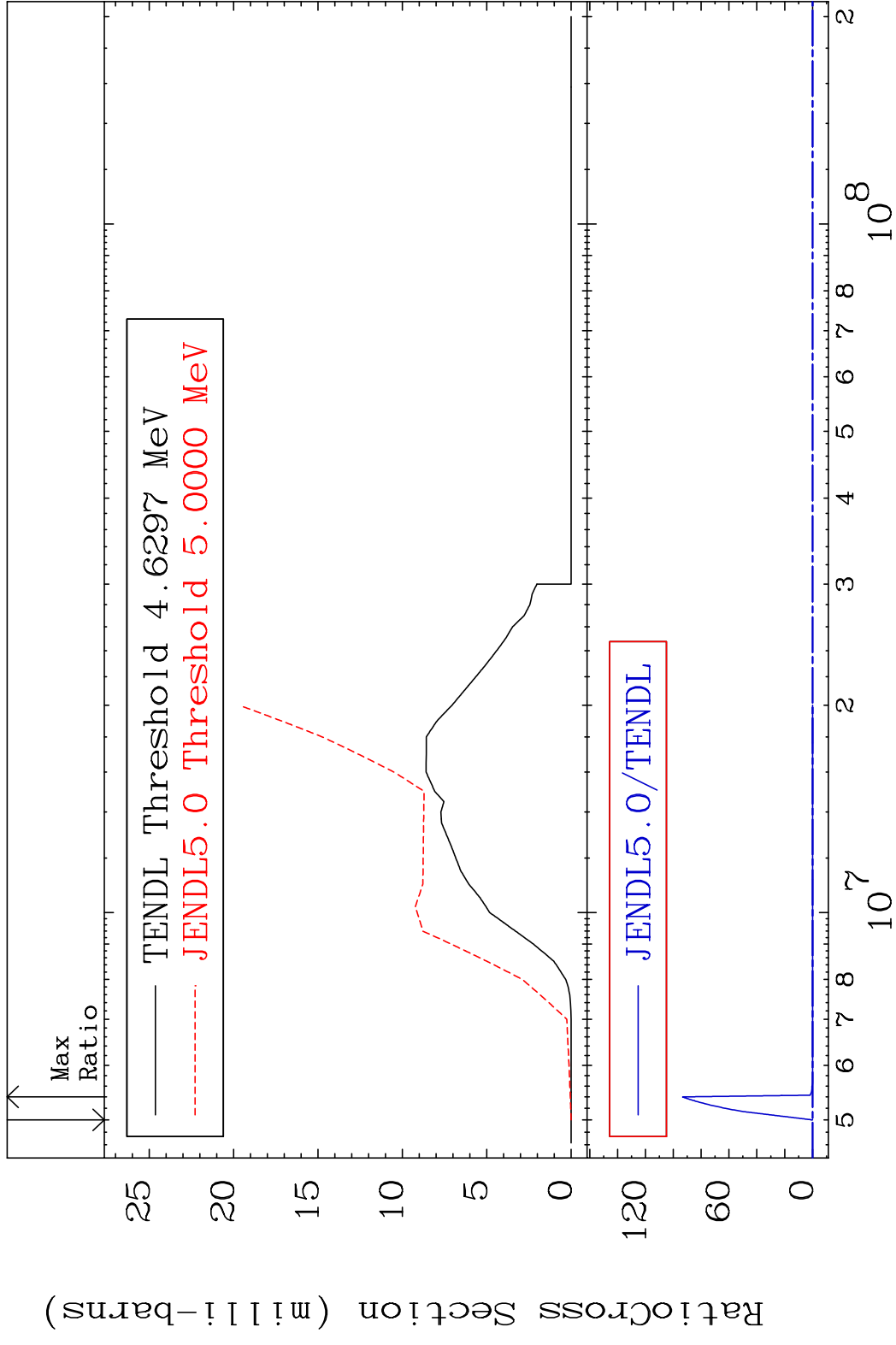


14

Incident Energy (eV)

16-S -36

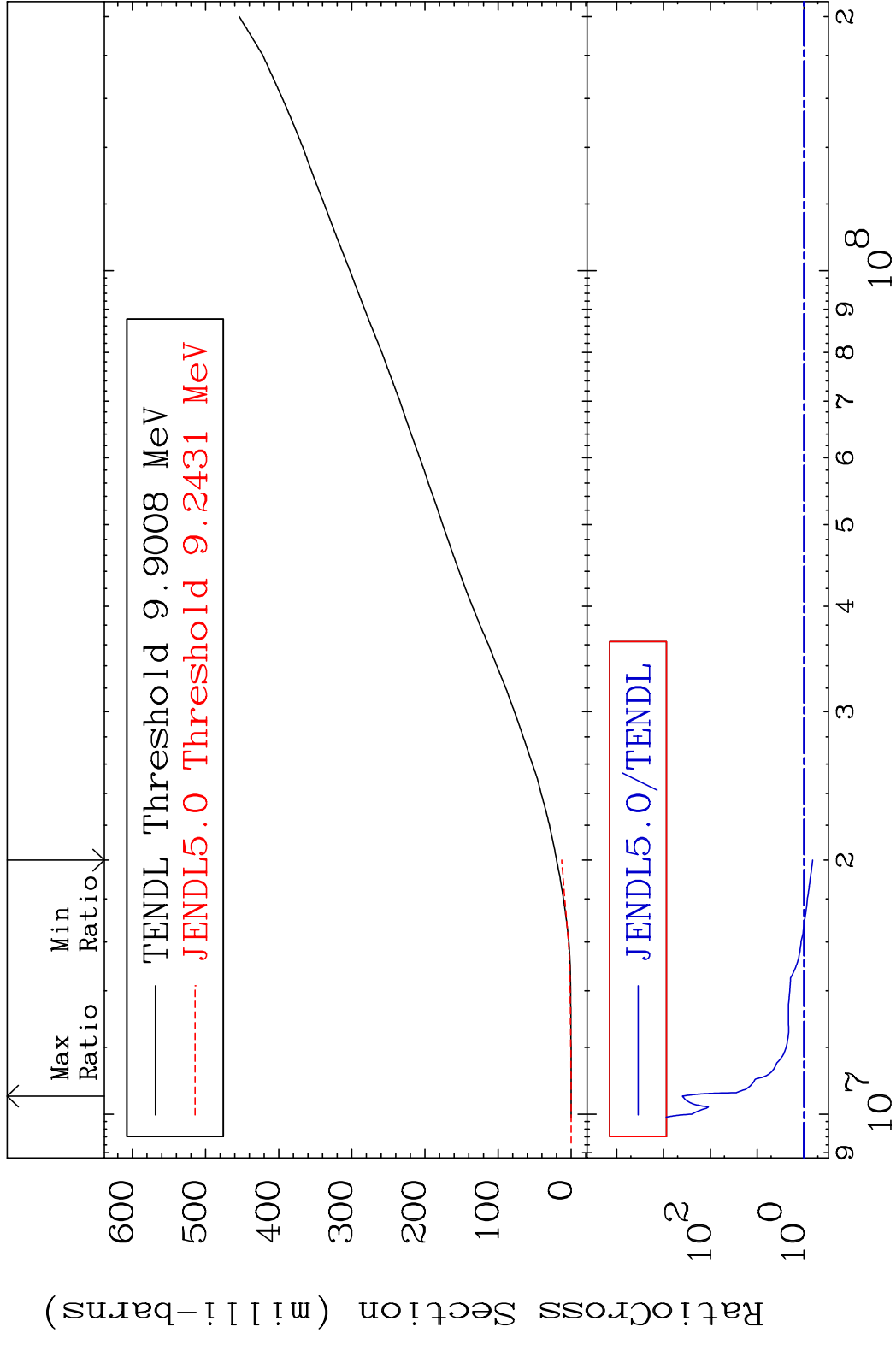
MAT 1637 (n, α) 16-S -36
 Cross Section -100.0 To 9999. %



15 16-S -36

MAT 1637

Hydrogen Production 16-S -36
Cross Section -34.81 To 9999. %

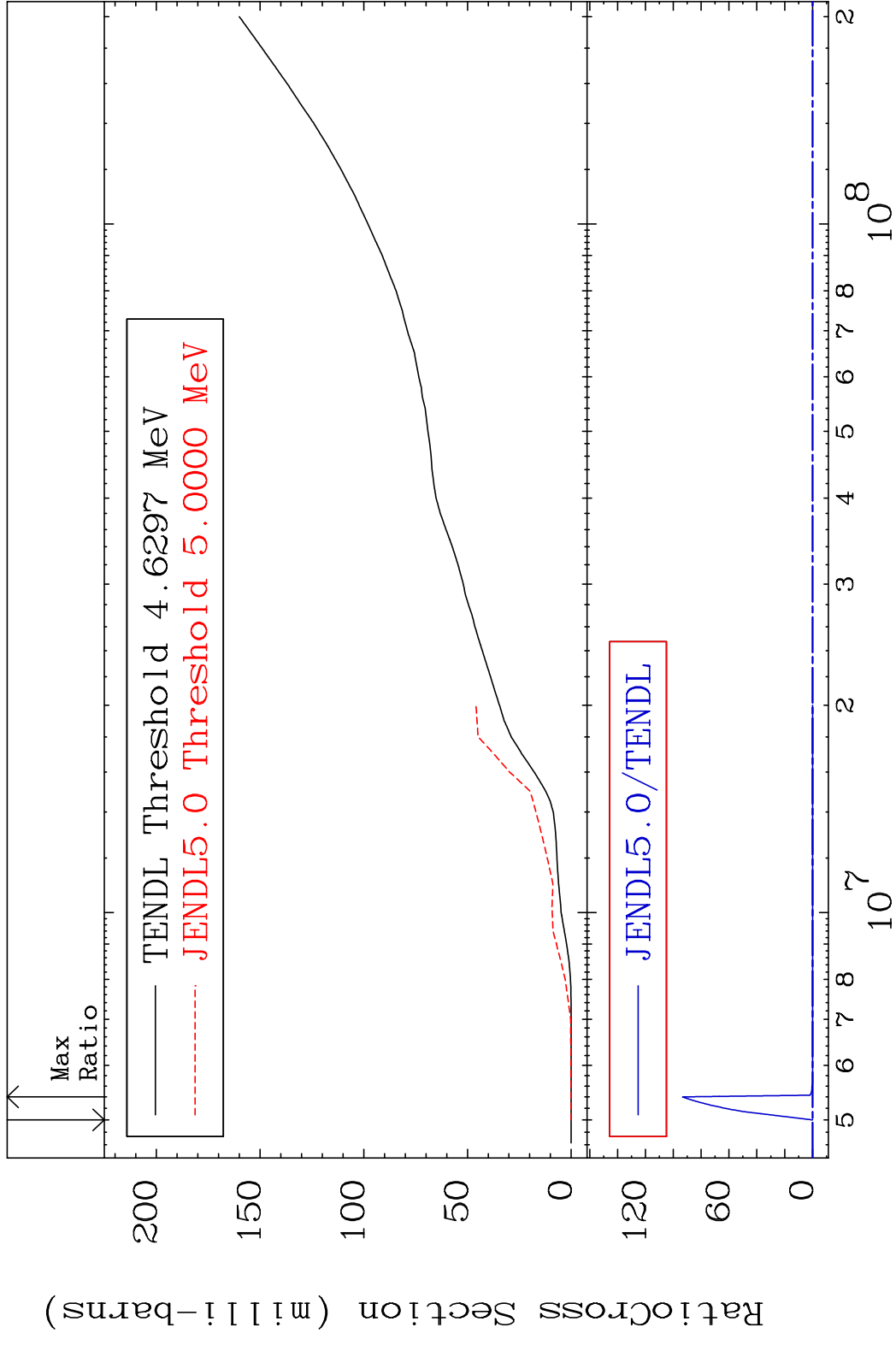


16

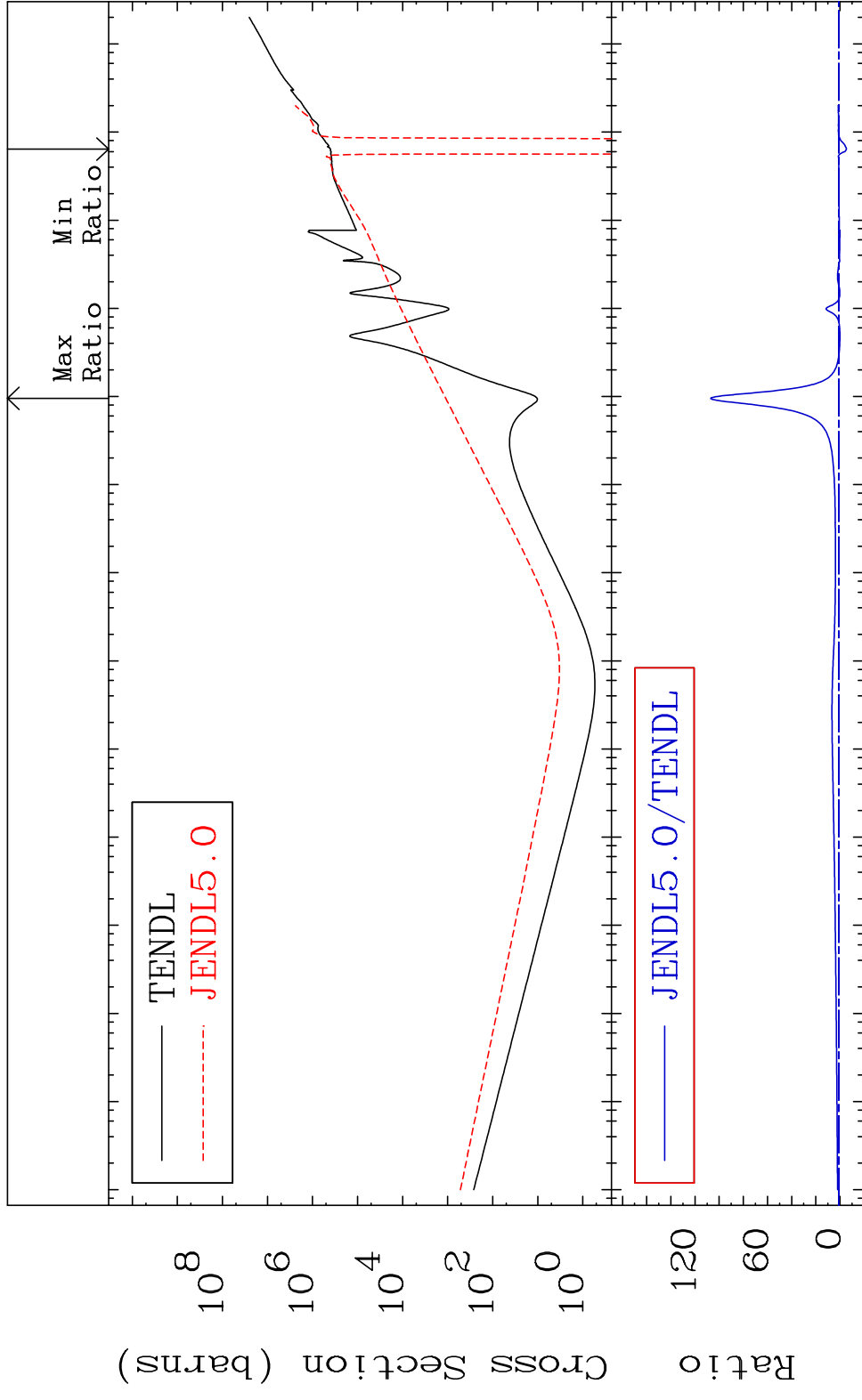
Incident Energy (eV)

16-S -36

MAT 1637 He-4 Production 16-S -36
 Cross Section -100.0 To 9999. %



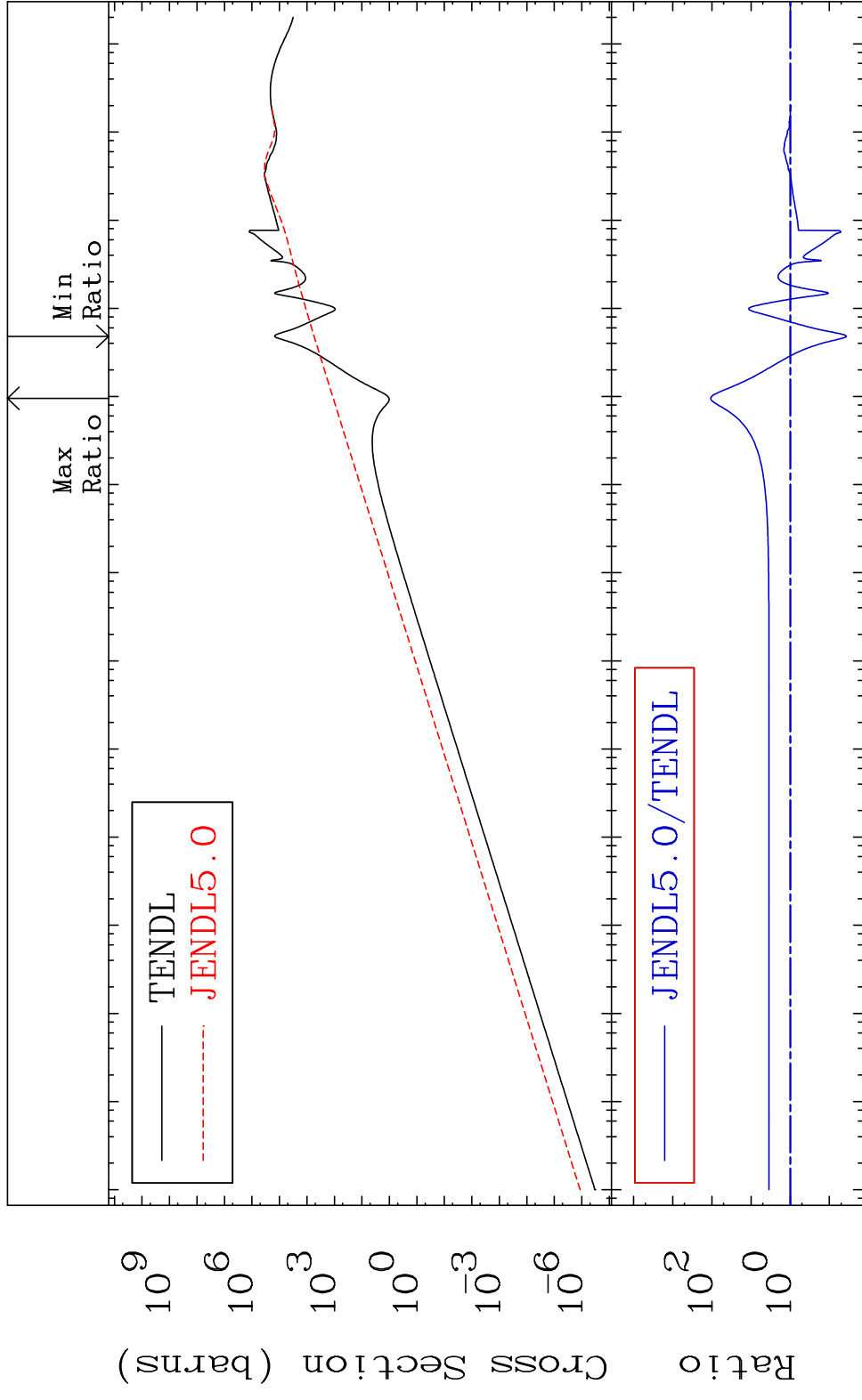
MAT 1637 Kerma total (eV-barns) 16-S -36
 Cross Section -627.3 To 9999. %



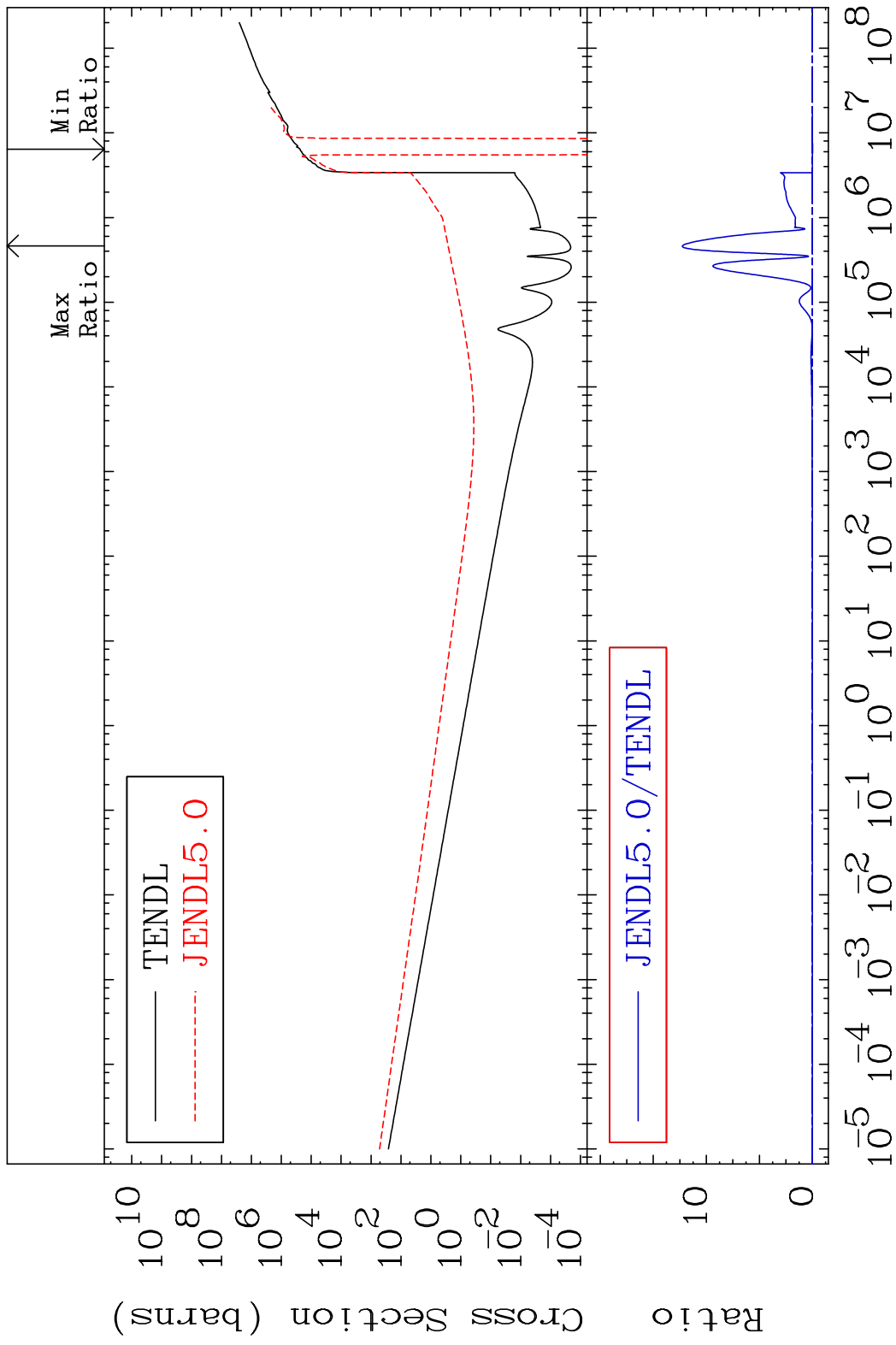
18 Incident Energy (eV) 16-S -36

MAT 1637

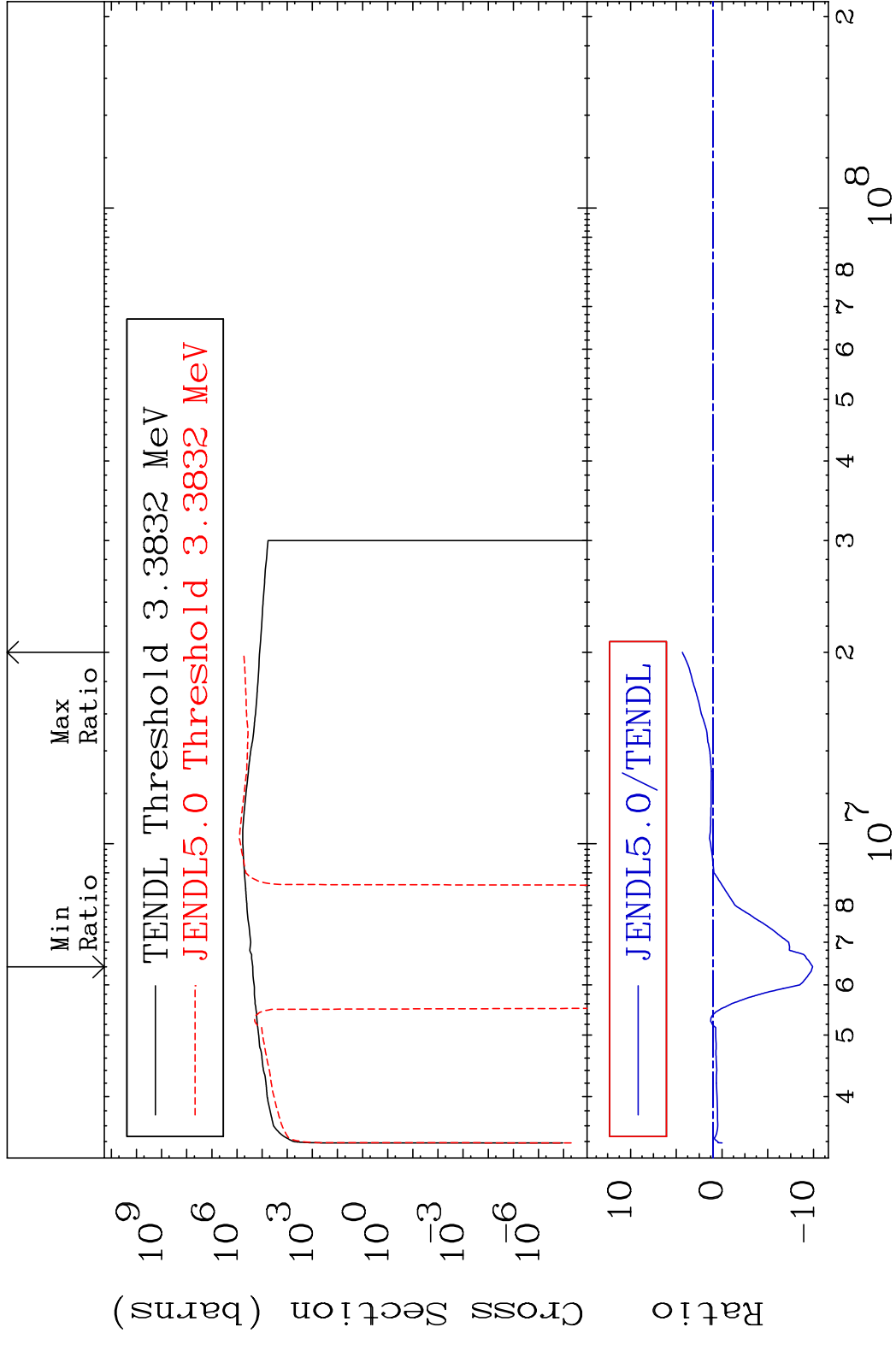
Kerma elastic Cross Section -96.31 To 9999. %
16-S -36



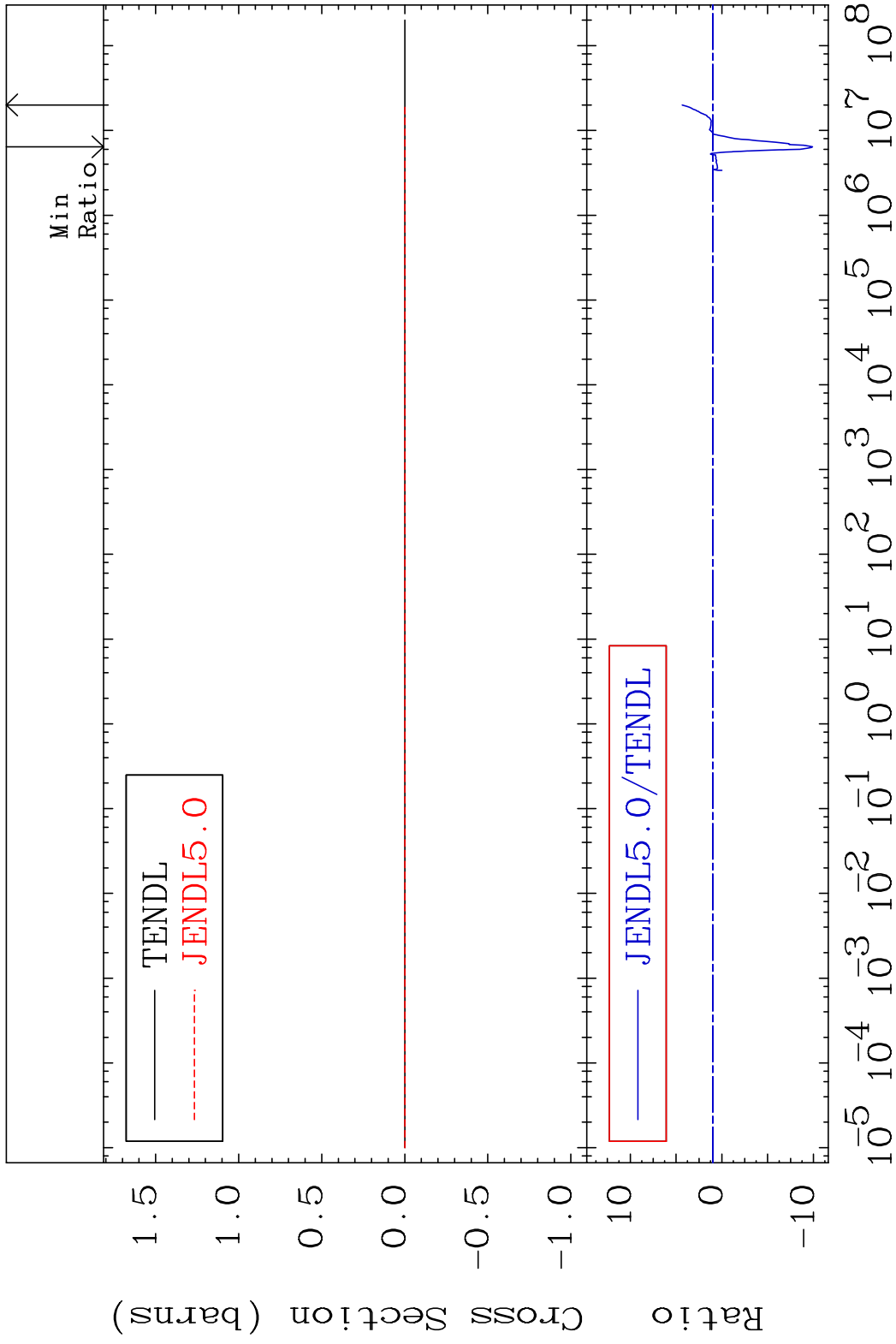
MAT 1637 Kerma non-elastic (all but mt2) 16-S -36
 Cross Section -1089. To 9999. %



20 Incident Energy (eV) 16-S -36

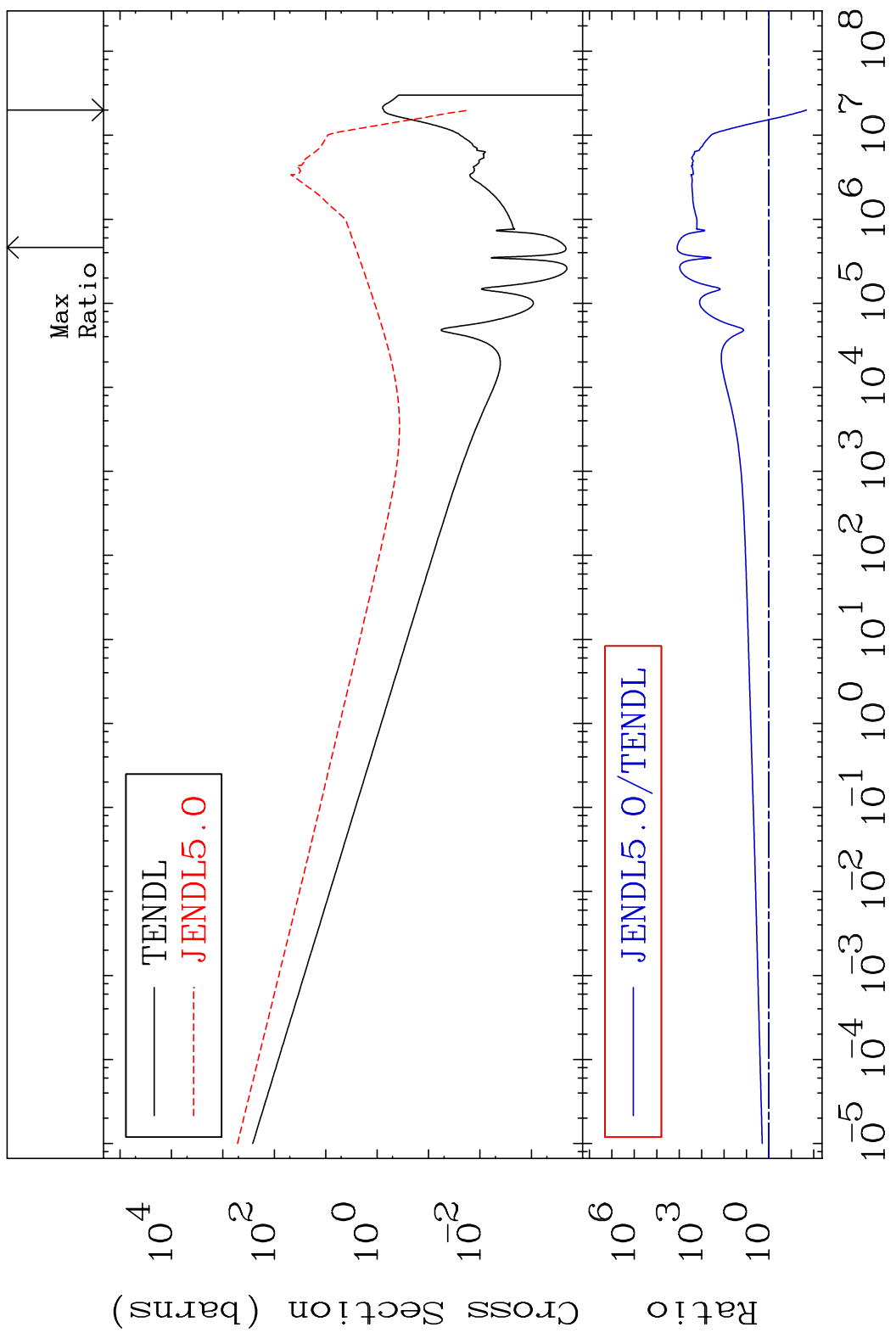


MAT 1637 Kerma fission (mt18 or mt19-20-21-38) 16-S -36
 Cross Section -1089. To 333.9 %



MAT 1637

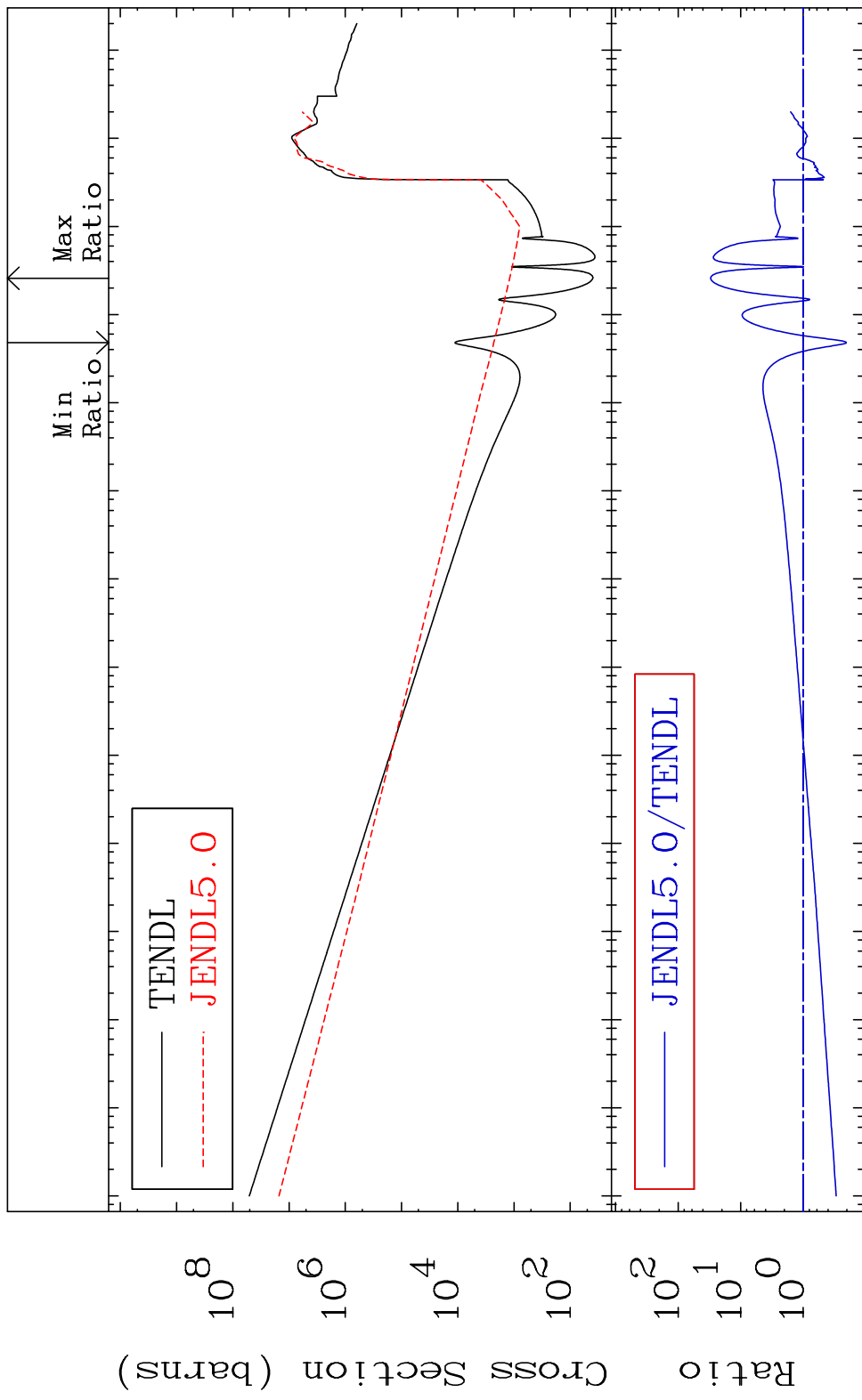
Kerma capture (mt102) 16-S -36
Cross Section -97.88 To 9999. %



23

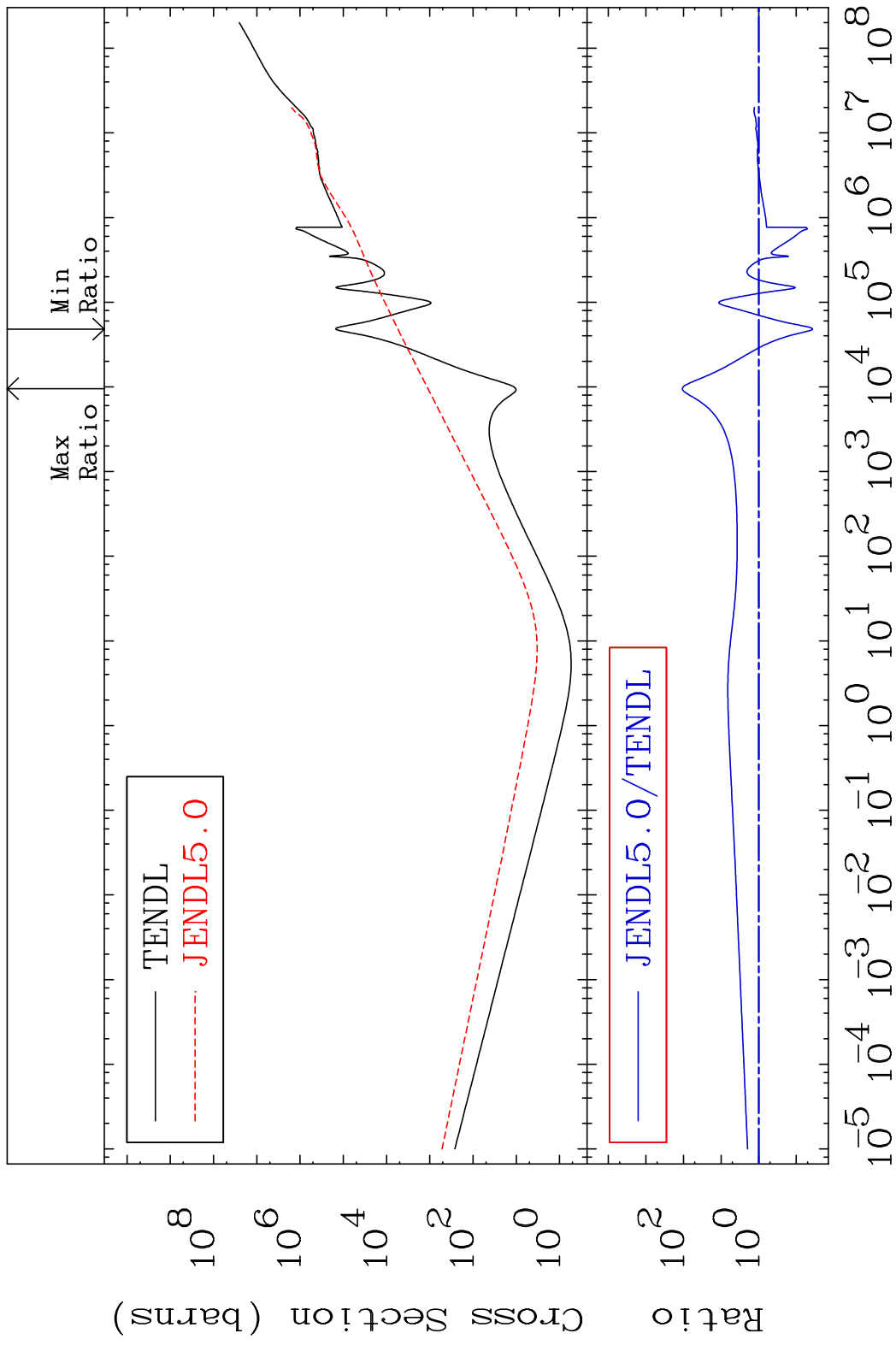
Incident Energy (eV) 16-S -36

MAT 1637 Total photon (eV-barns) 16-S -36
 Cross Section -79.61 To 2909. %

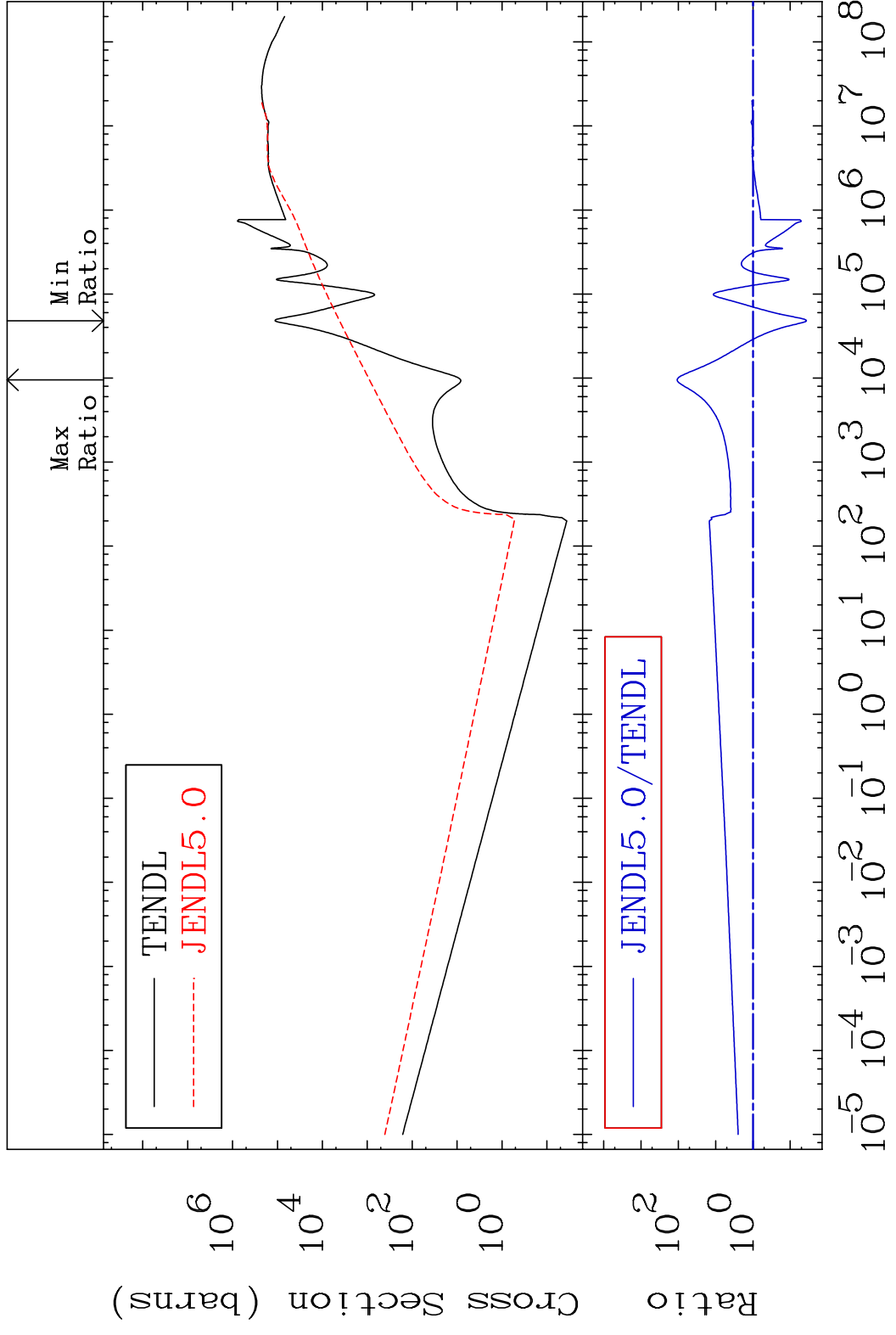


24 Incident Energy (eV) 16-S -36

MAT 1637 Total kinematic kerma (high limit) 16-S -36
 Cross Section -96.31 To 9999. %



MAT 1637 Dpa total (eV-barns) 16-S -36
 Cross Section -96.31 To 9999. %

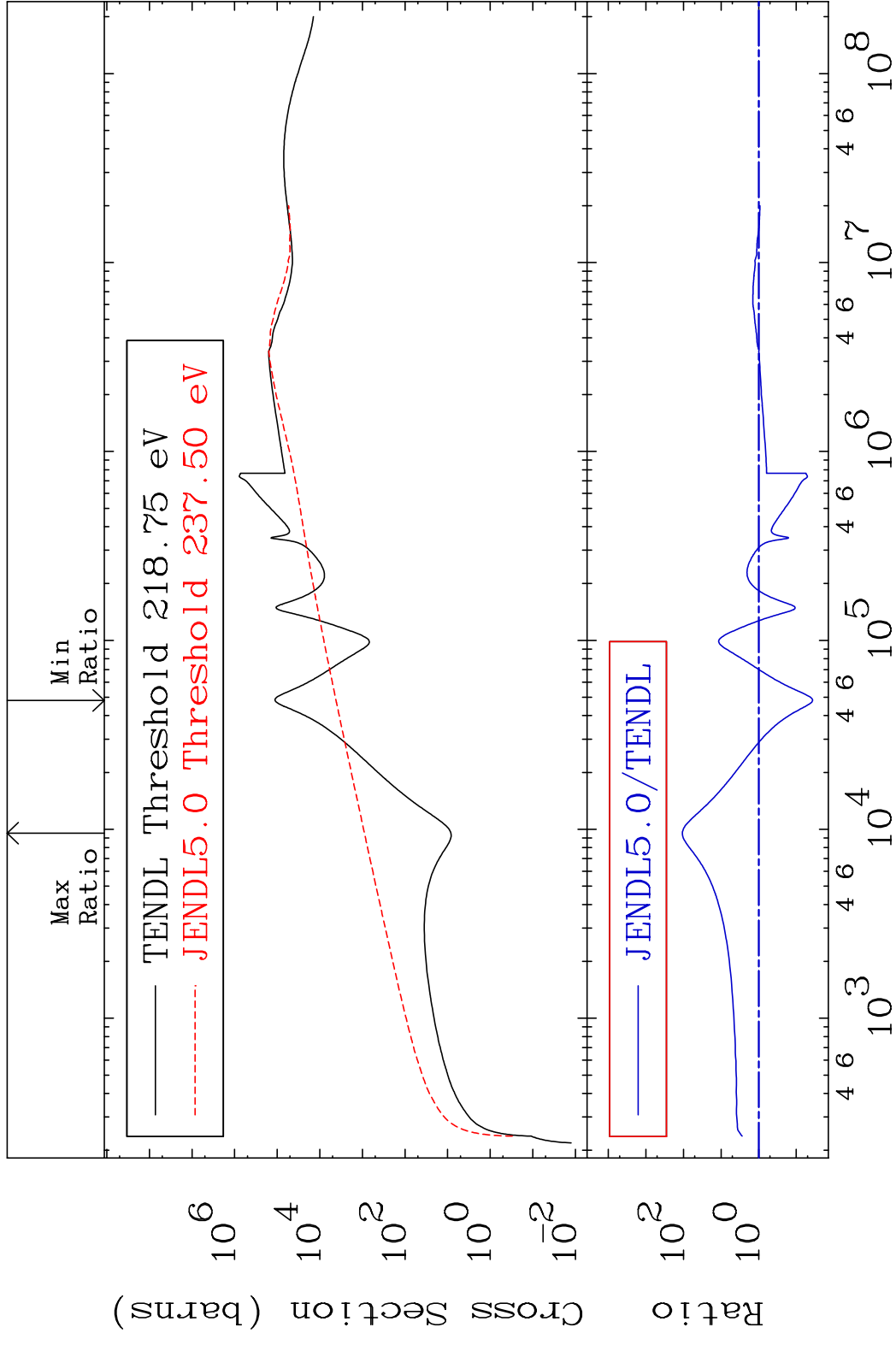


MAT 1637

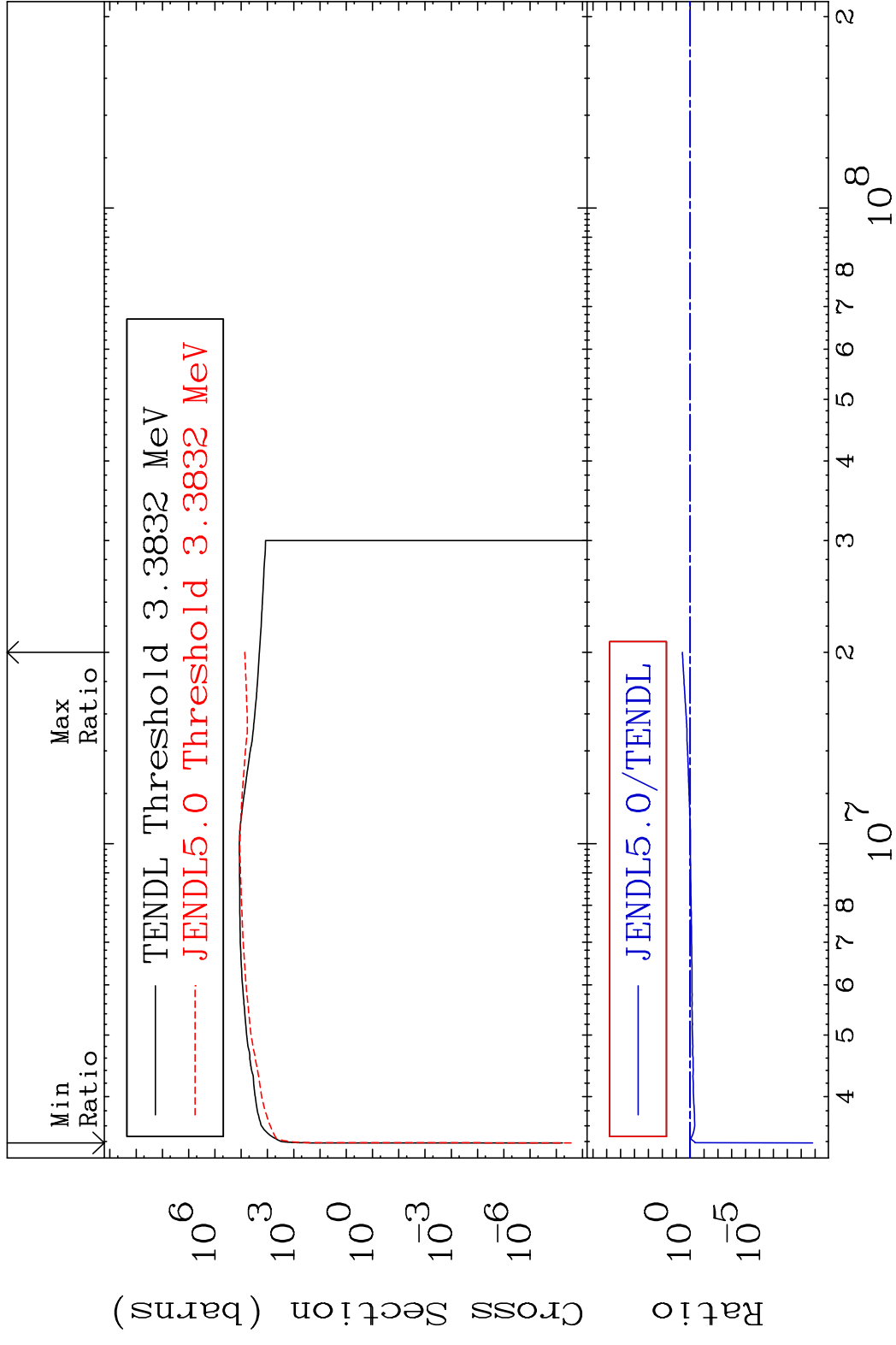
Dpa elastic (mt2)

16-S -36

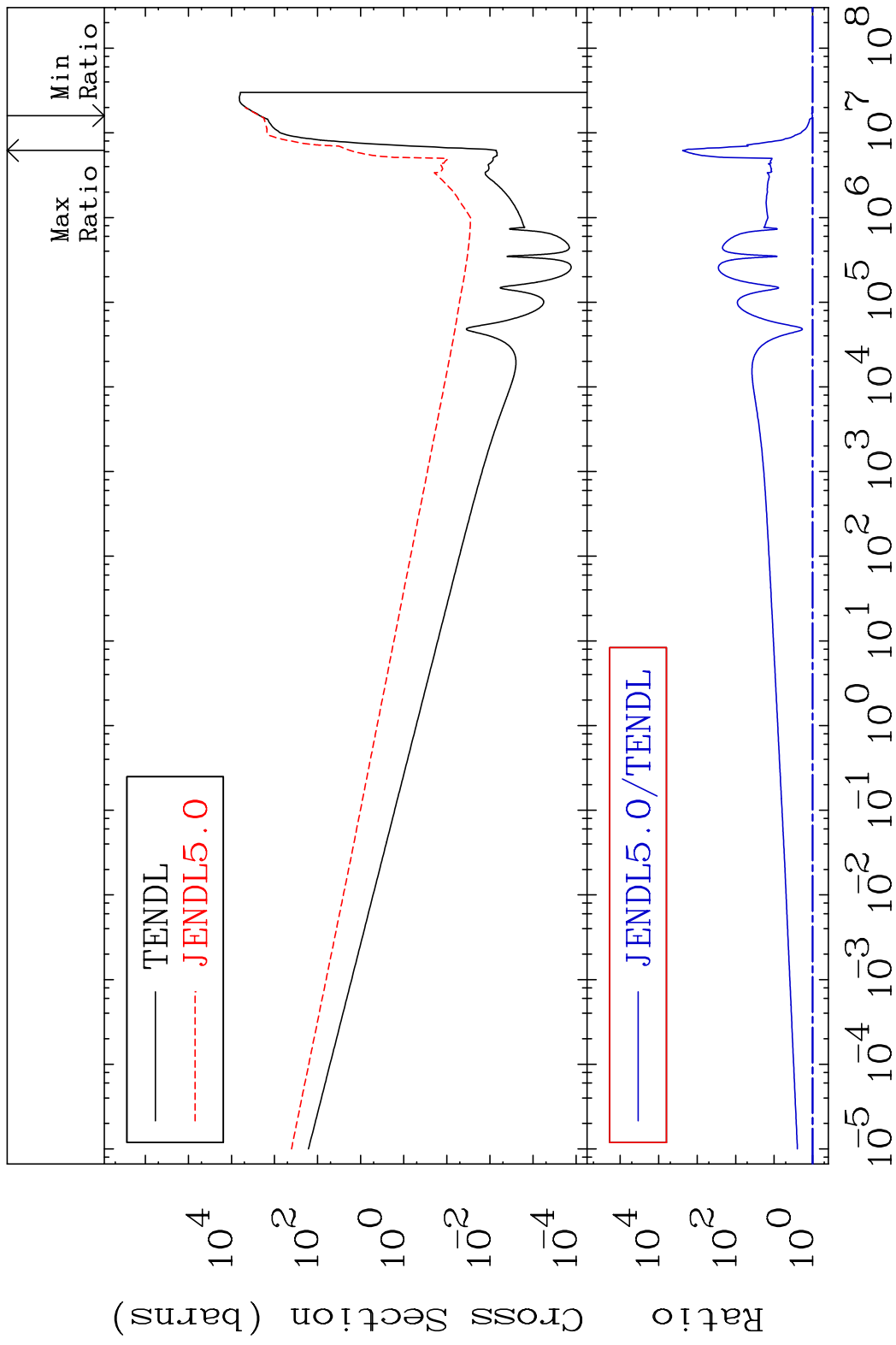
Cross Section -96.31 To 9999. %



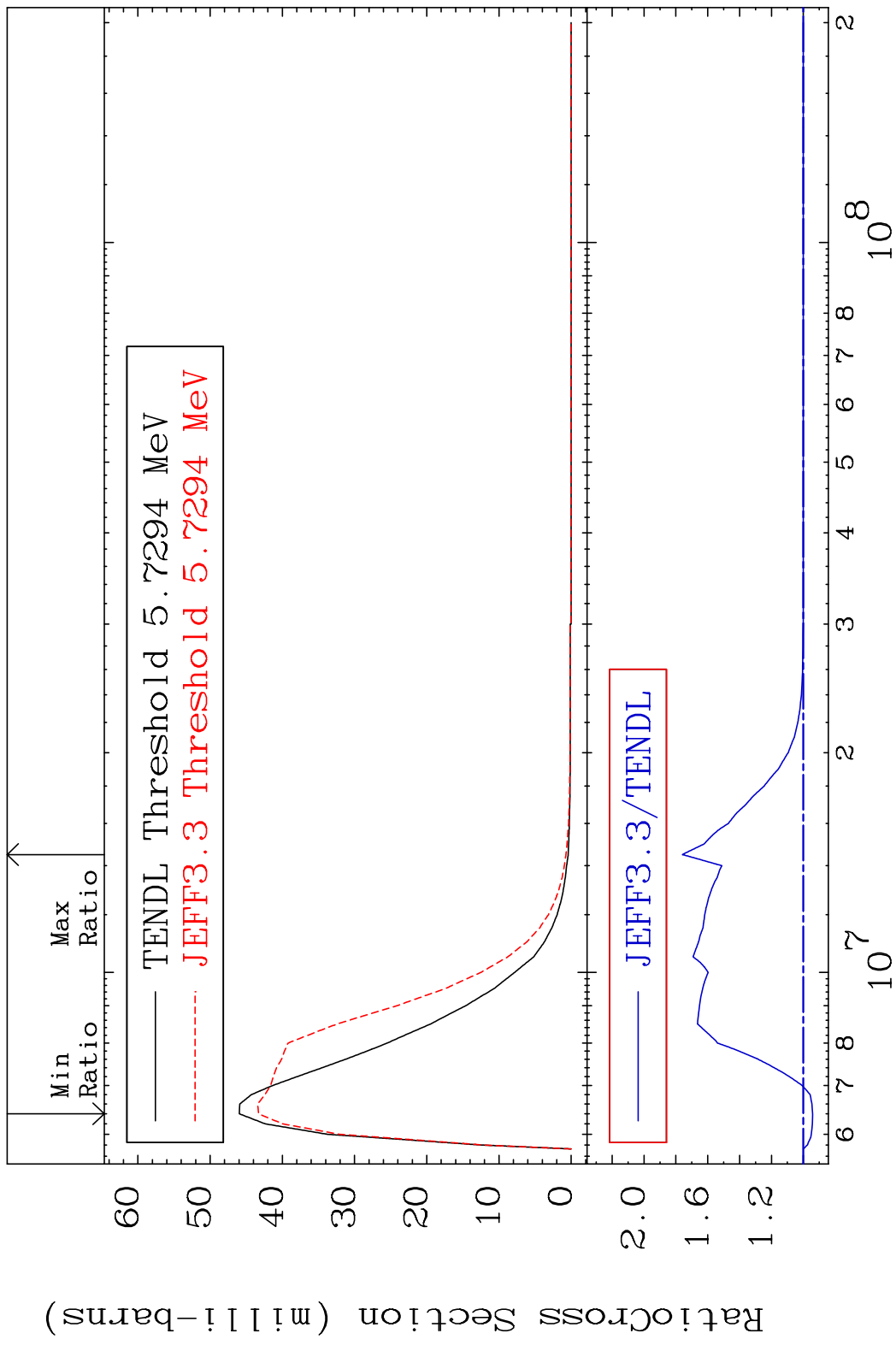
MAT 1637 Dpa inelastic (mt51-91) 16-S -36
 Cross Section -100.0 To 260.6 %



MAT 1637 Dpa disappearance (mt102 -120) 16-S -36
 Cross Section 0.317 To 9999. %

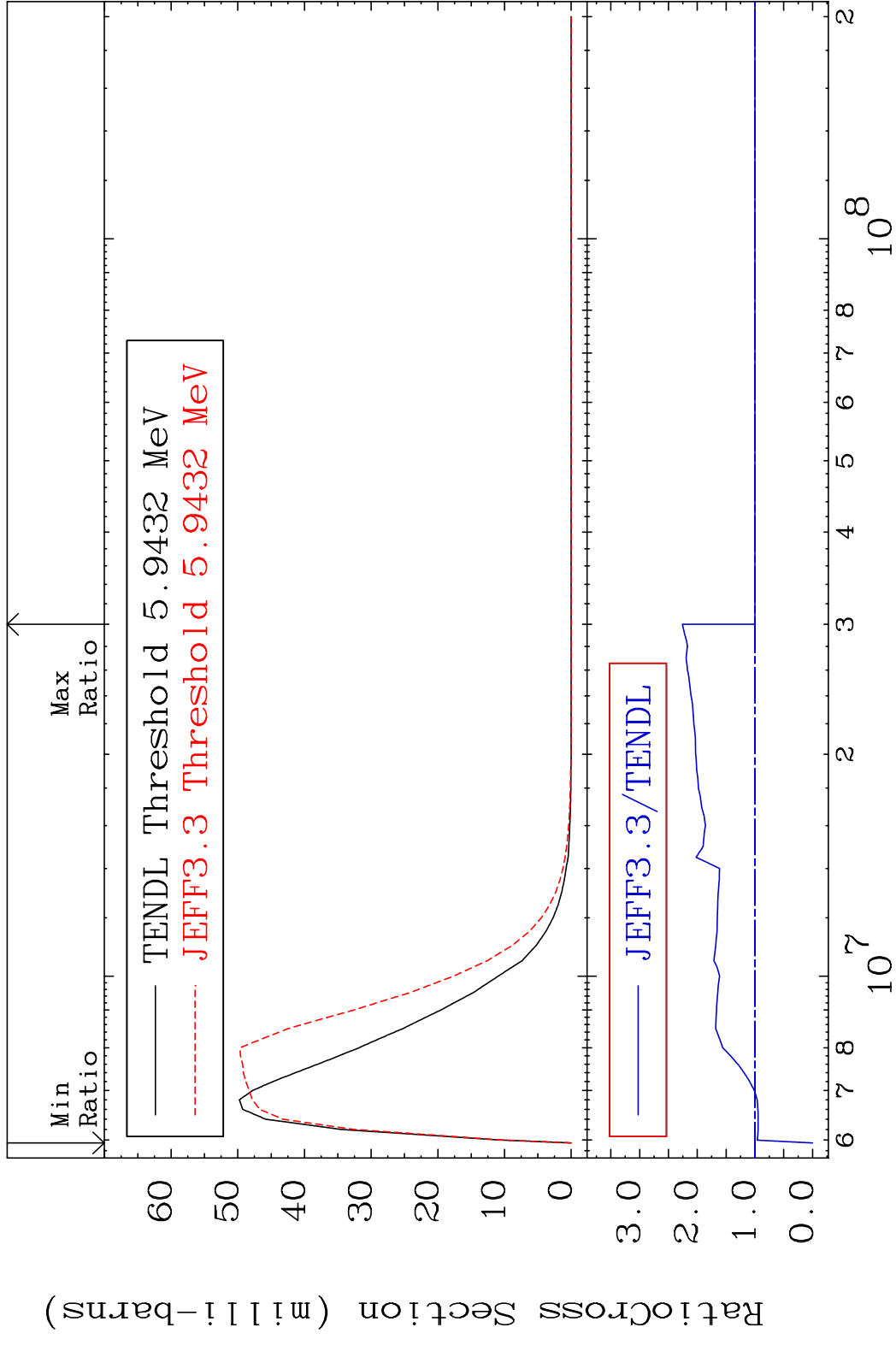


MAT 1637 MT= 63 (n, n') Level 16-S -36
 Cross Section -5.804 To 75.94 %



30 Incident Energy (eV) 16-S -36

MAT 1637 MT= 64 (n, n') Level 16-S -36
 Cross Section -100.0 To 125.9 %

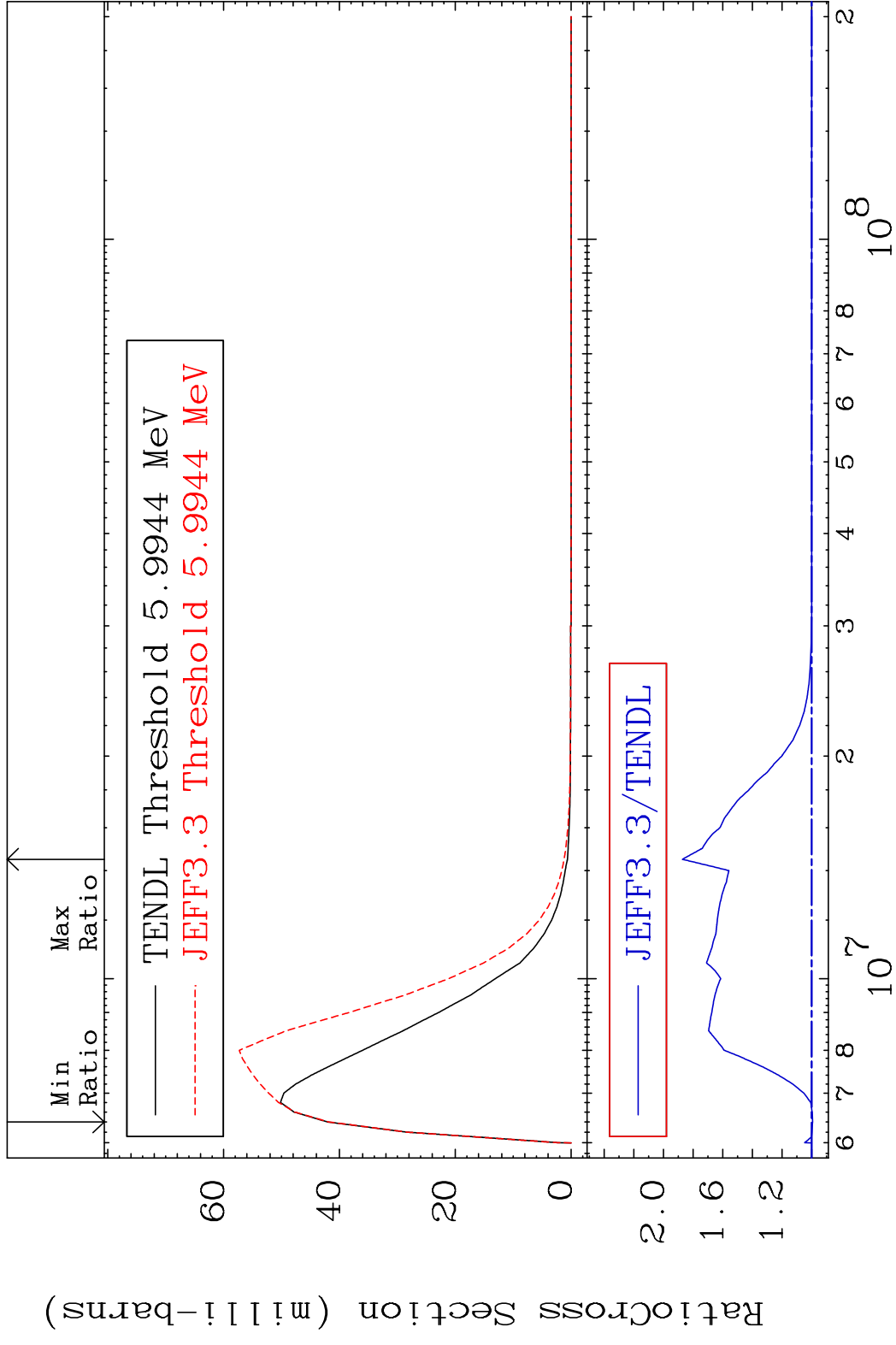


MAT 1637

MT= 65 (n,n') Level

16-S -36

Cross Section -0.524 To 87.30 %

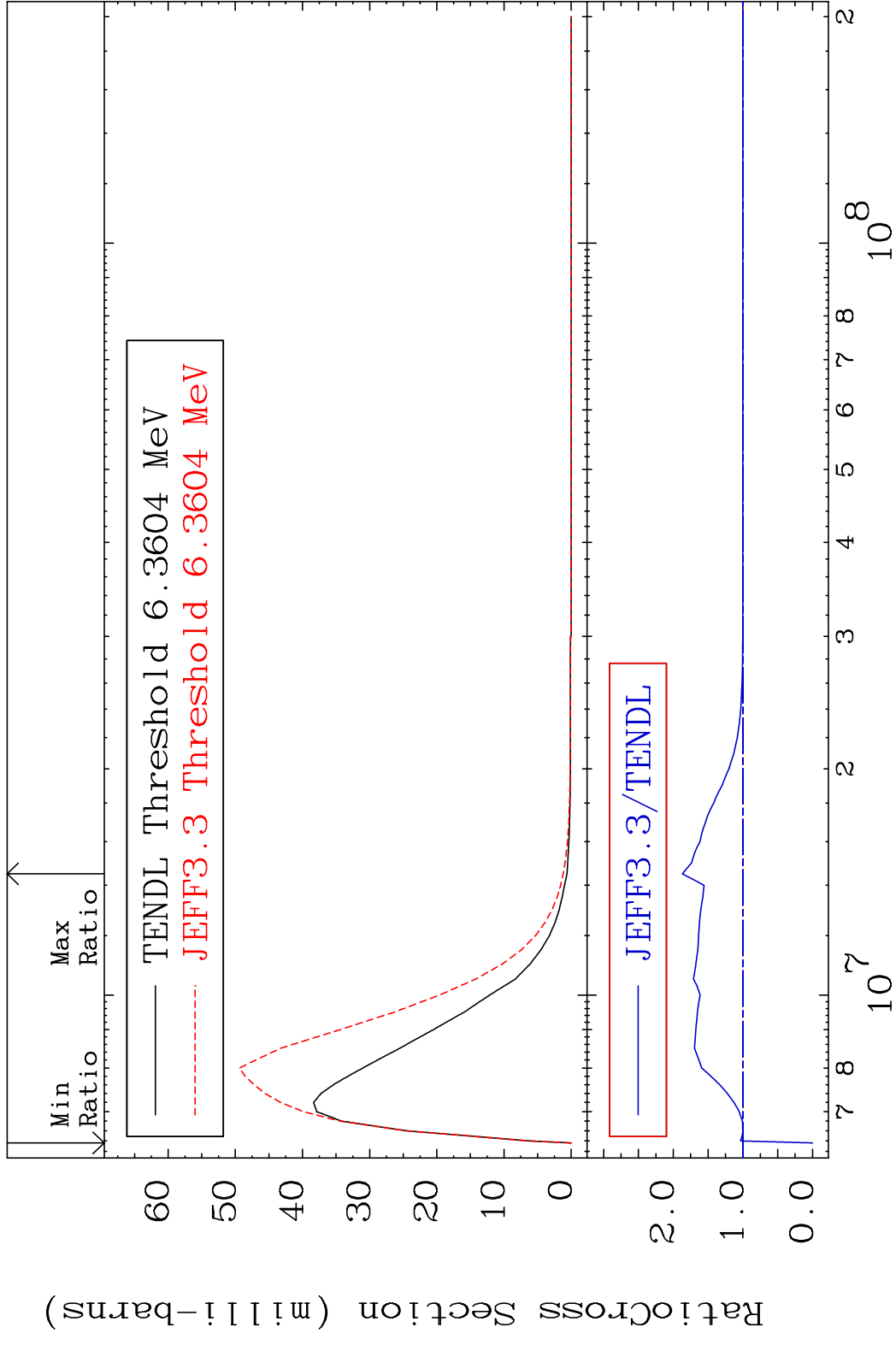


32

Incident Energy (eV)

16-S -36

MAT 1637 MT= 66 (n,n') Level 16-S -36
 Cross Section -100.0 To 86.94 %

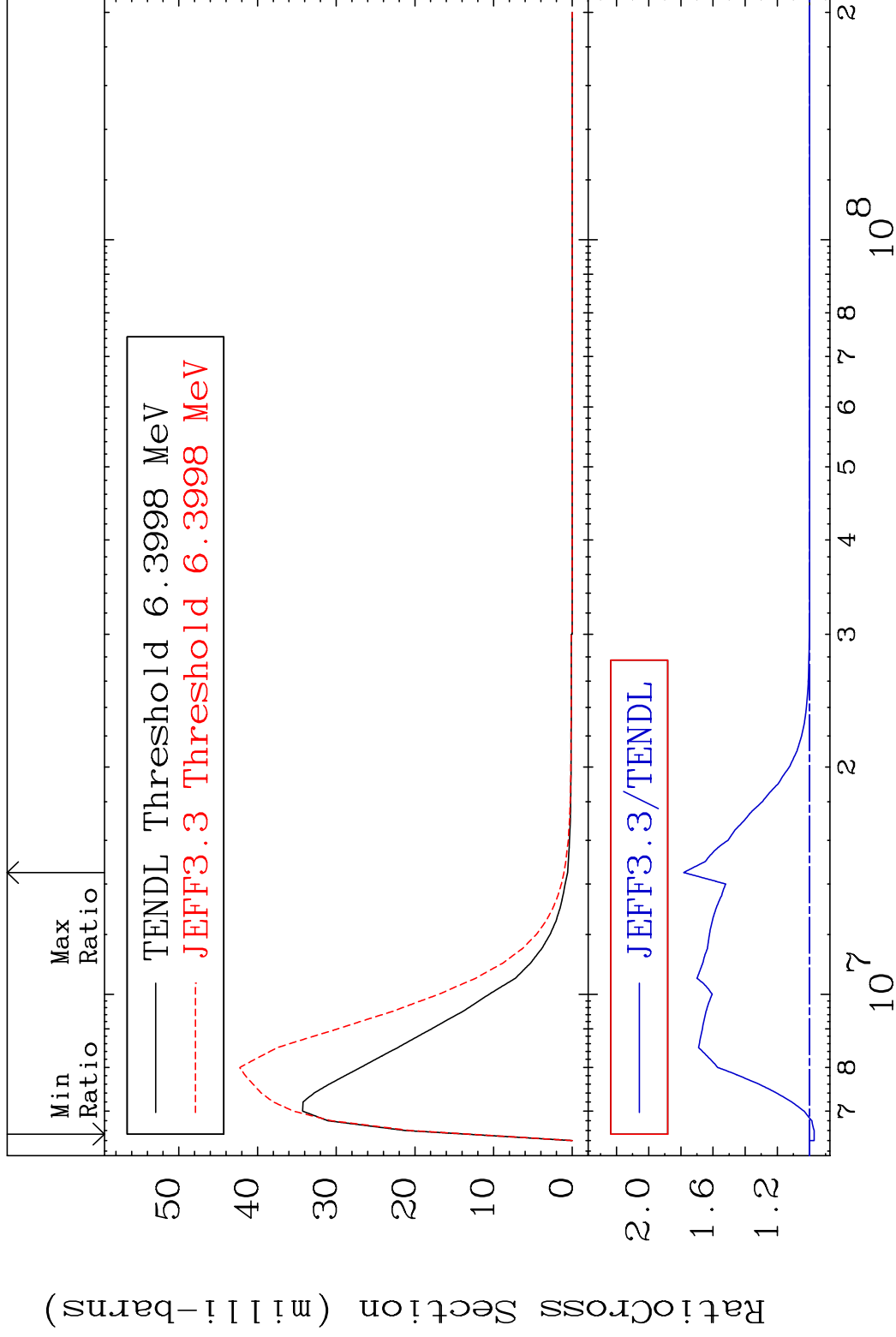


MAT 1637

MT= 67 (n, n') Level

16-S -36

Cross Section -2.875 To 78.26 %

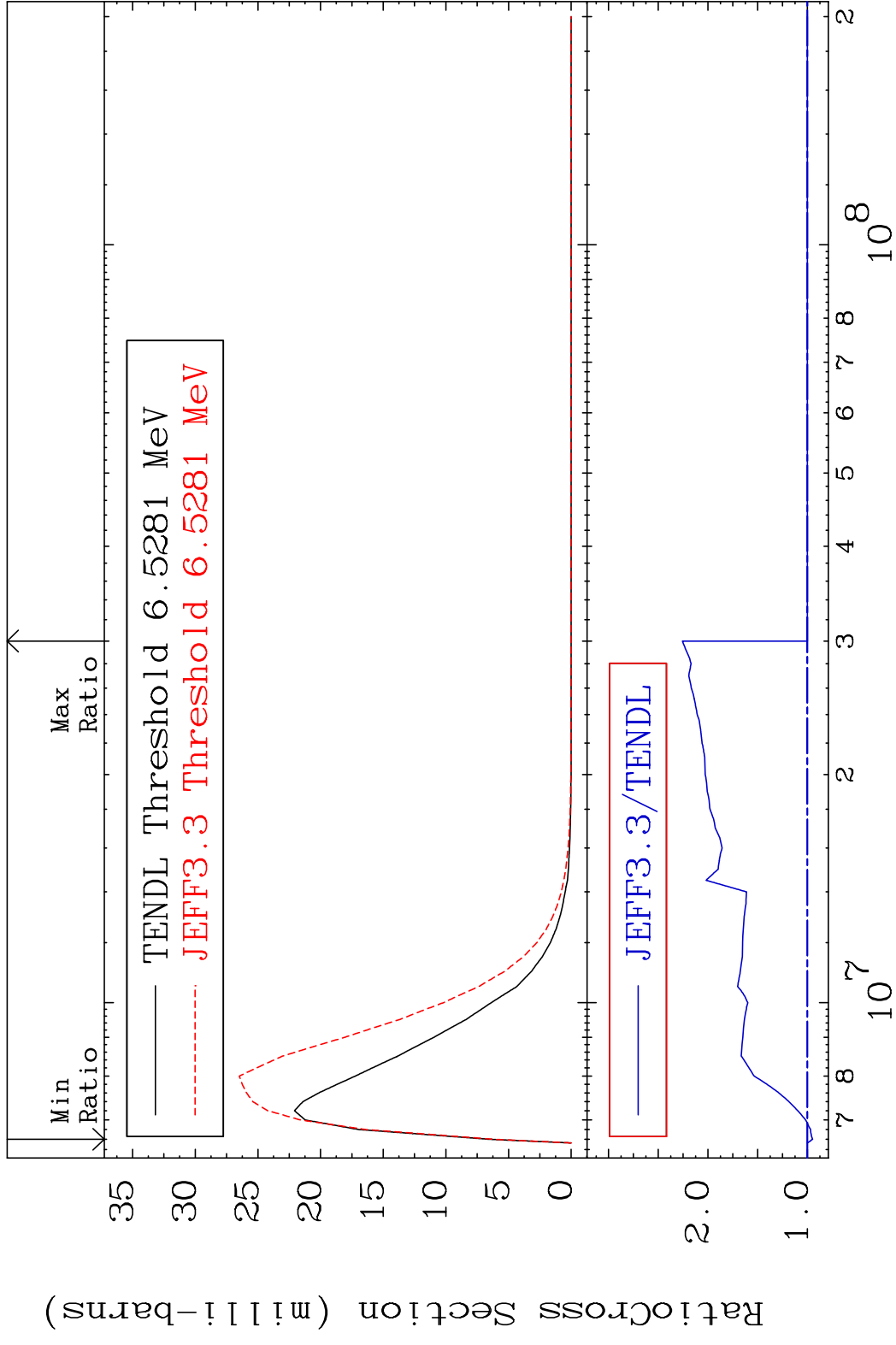


34

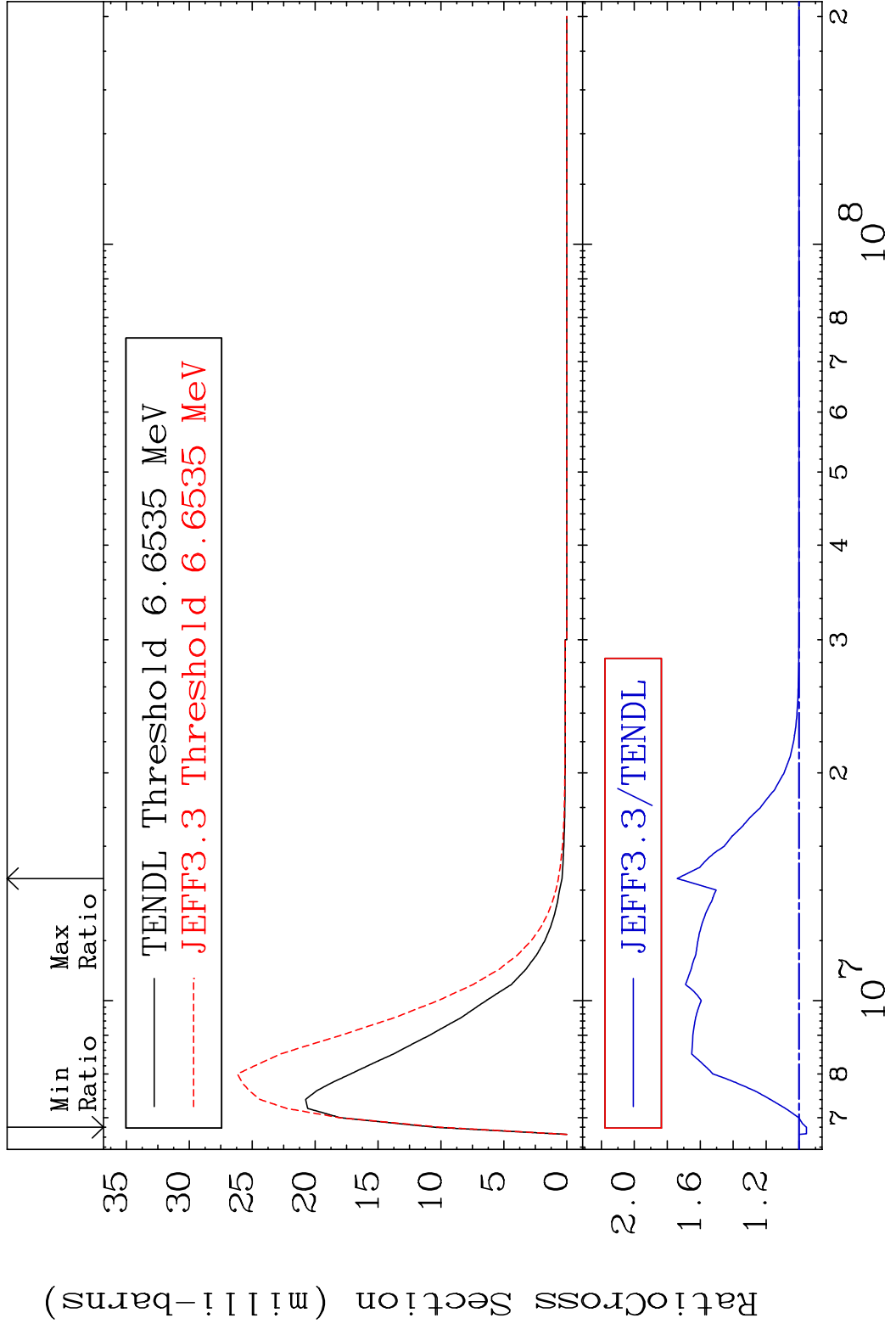
Incident Energy (eV)

16-S -36

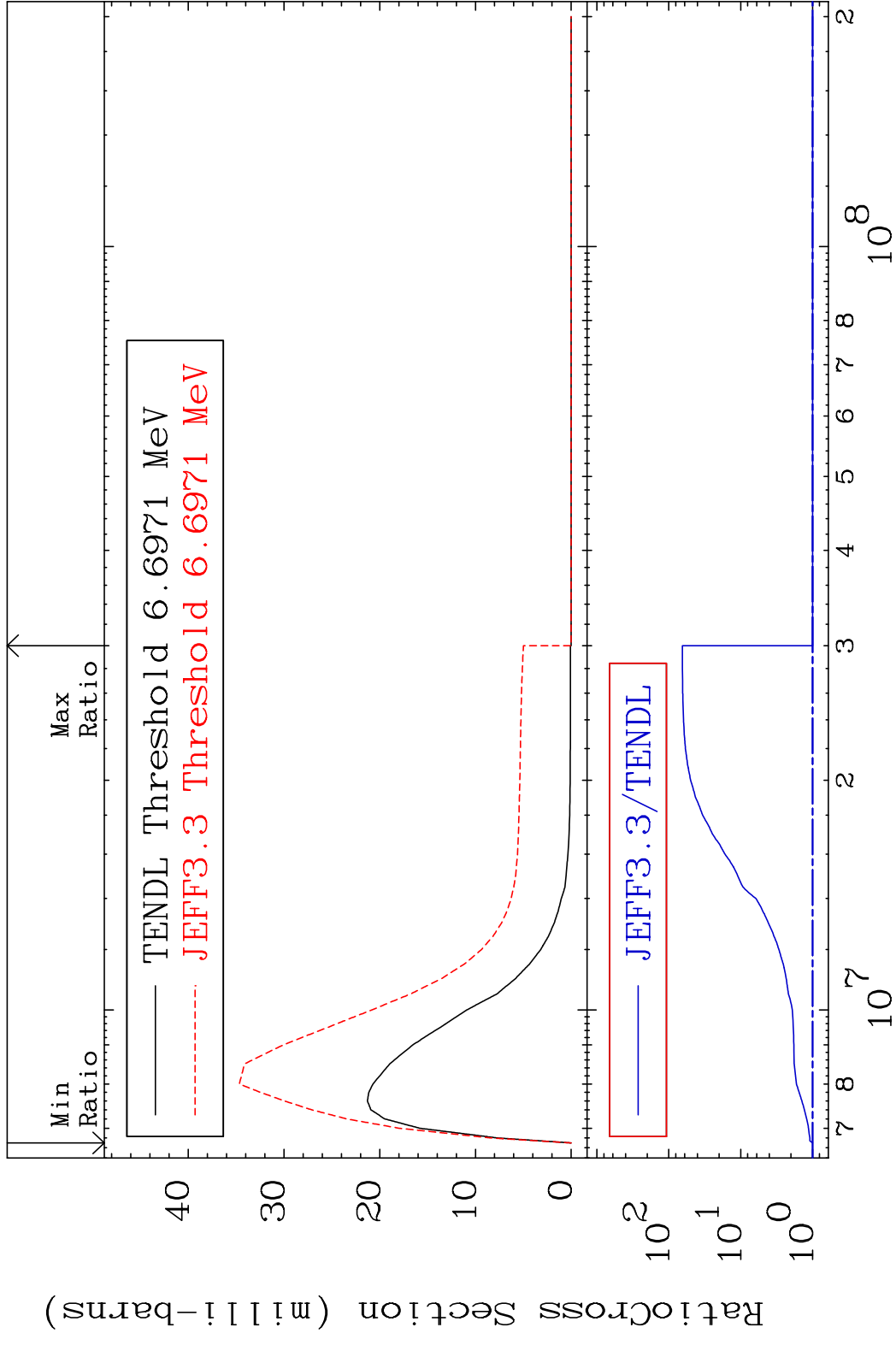
MAT 1637 MT= 68 (n,n') Level 16-S -36
 Cross Section -5.200 To 125.8 %



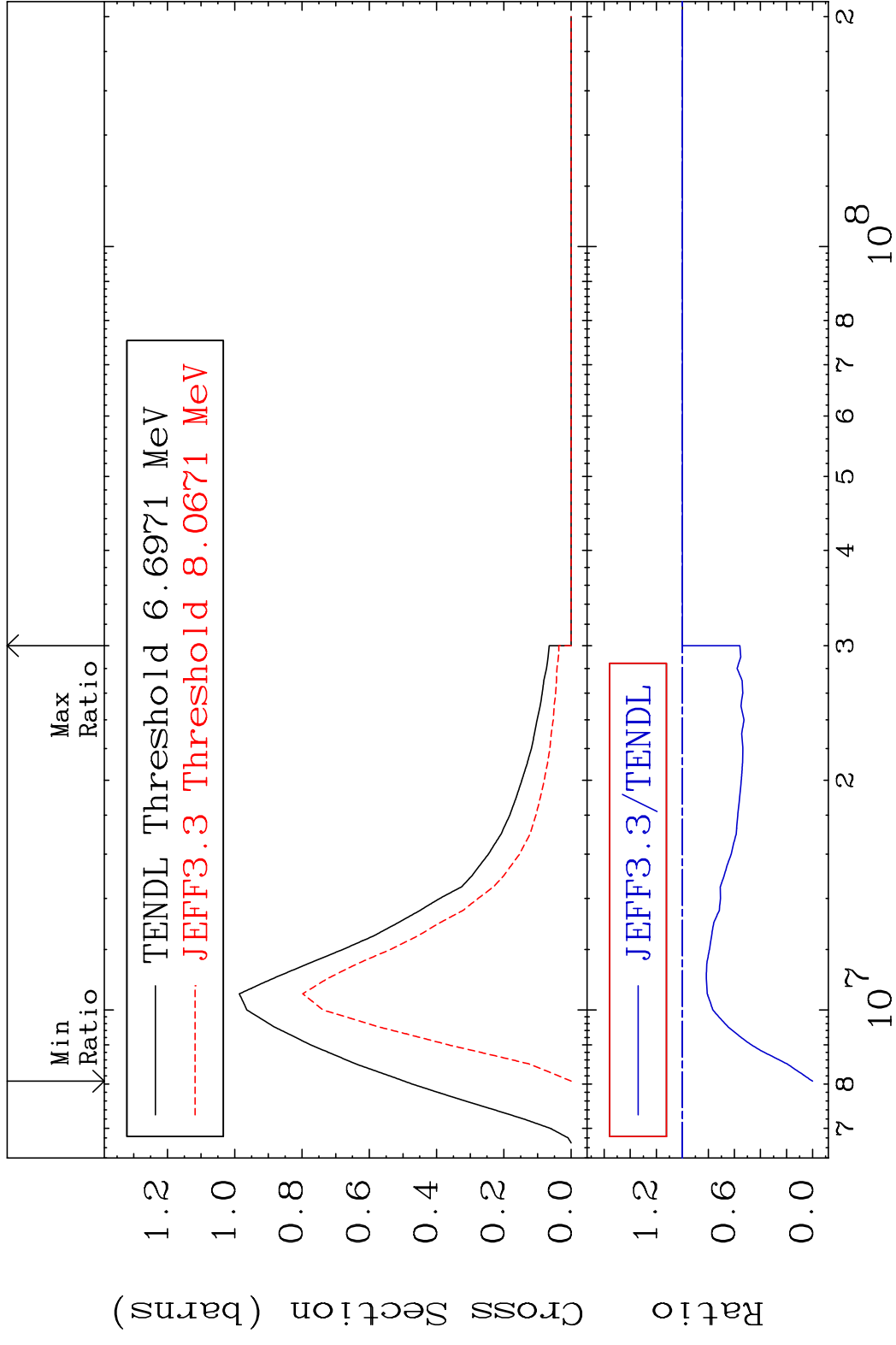
MAT 1637 MT= 69 (n, n') Level 16-S -36
 Cross Section -4.494 To 73.97 %



MAT 1637 MT= 70 (n,n') Level 16-S -36
 Cross Section 0.000 To 6378. %



MAT 1637 (n, n') Continuum 16-S -36
 Cross Section -100.0 To 0.000 %

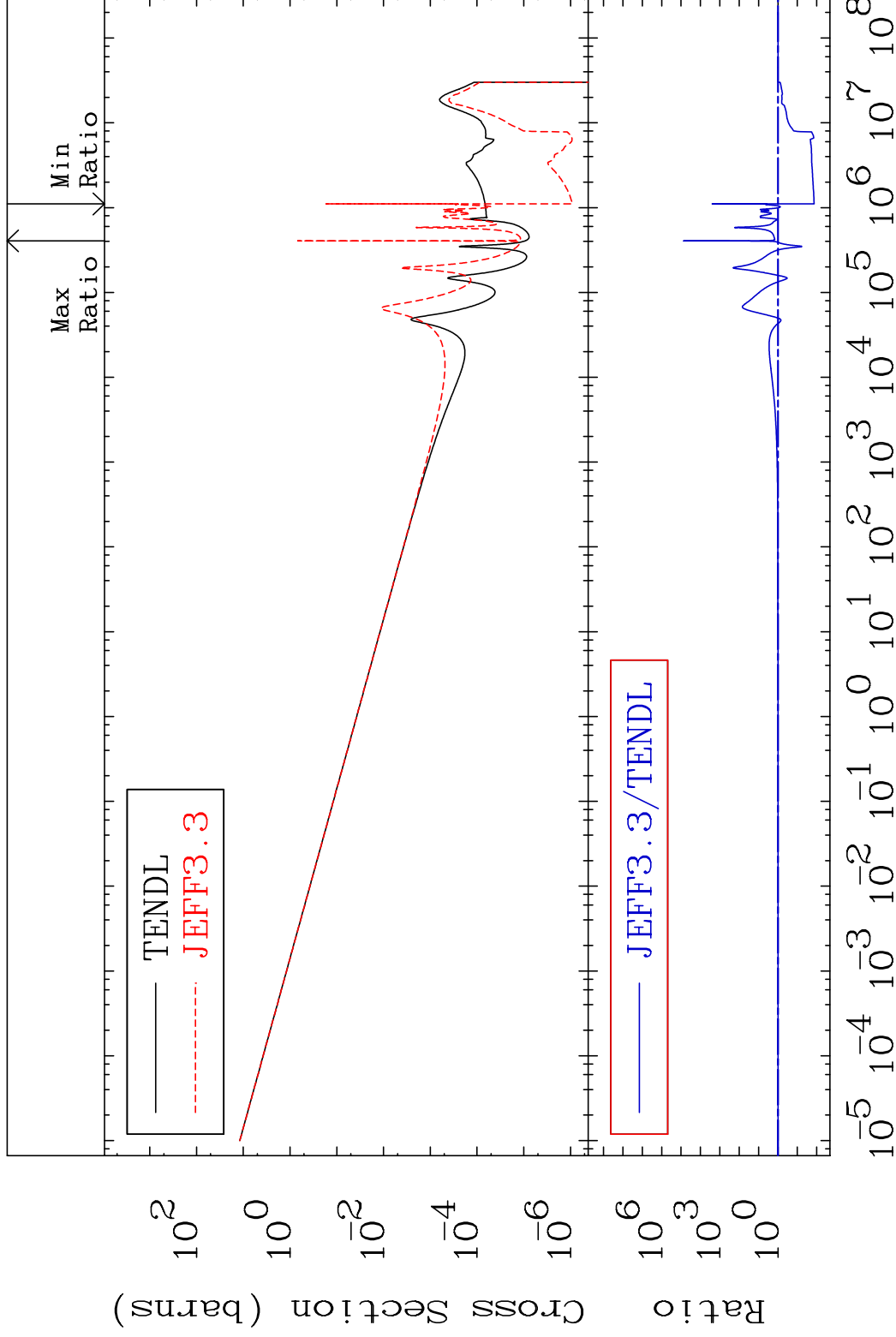


MAT 1637

(n, γ)

16-S -36

Cross Section -98.64 To 9999. %



39

Incident Energy (eV)

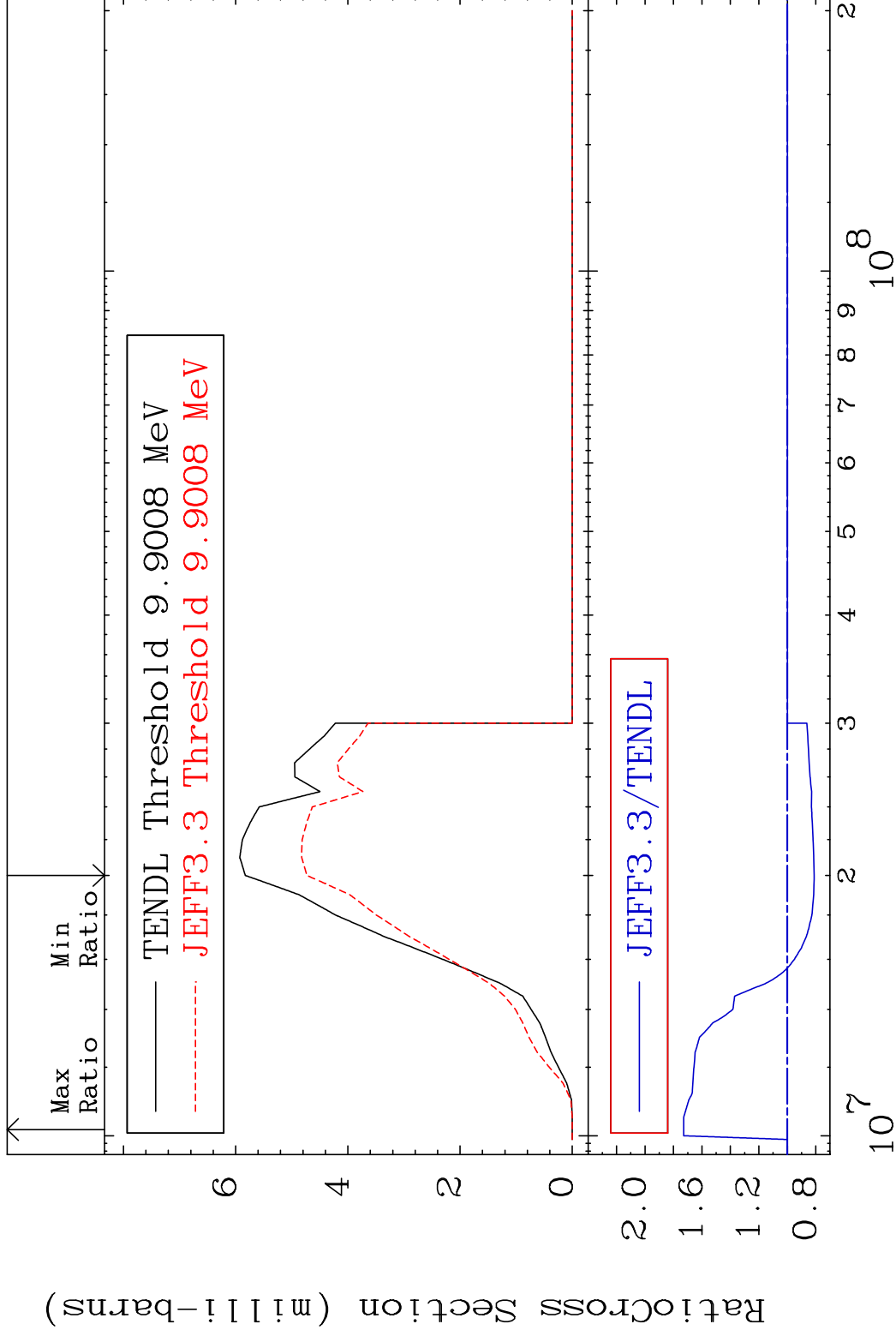
16-S -36

MAT 1637

(n,p)

16-S -36

Cross Section -18.83 To 72.84 %

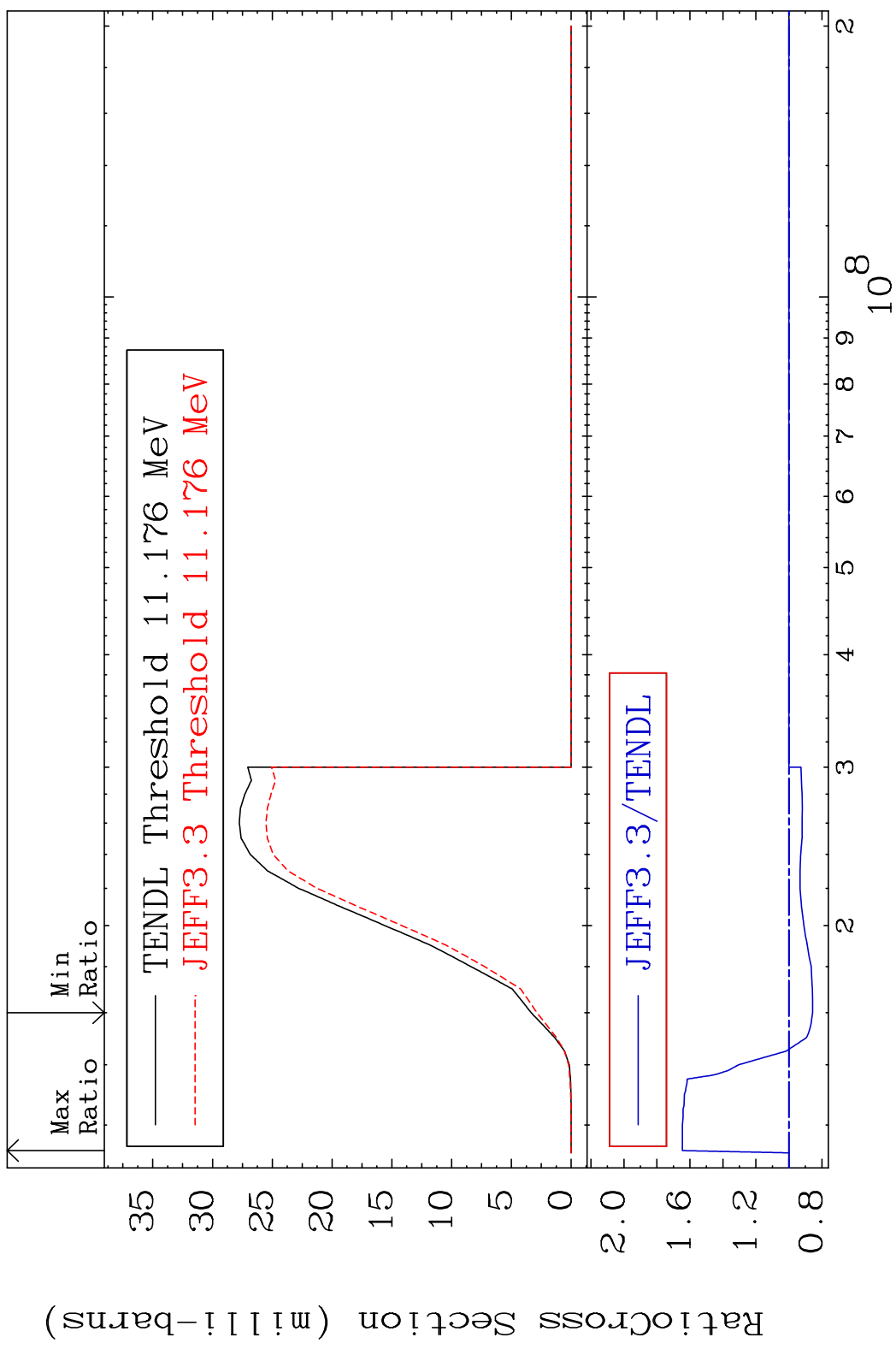


MAT 1637

(n,d)

16-S -36

Cross Section -14.33 To 64.57 %

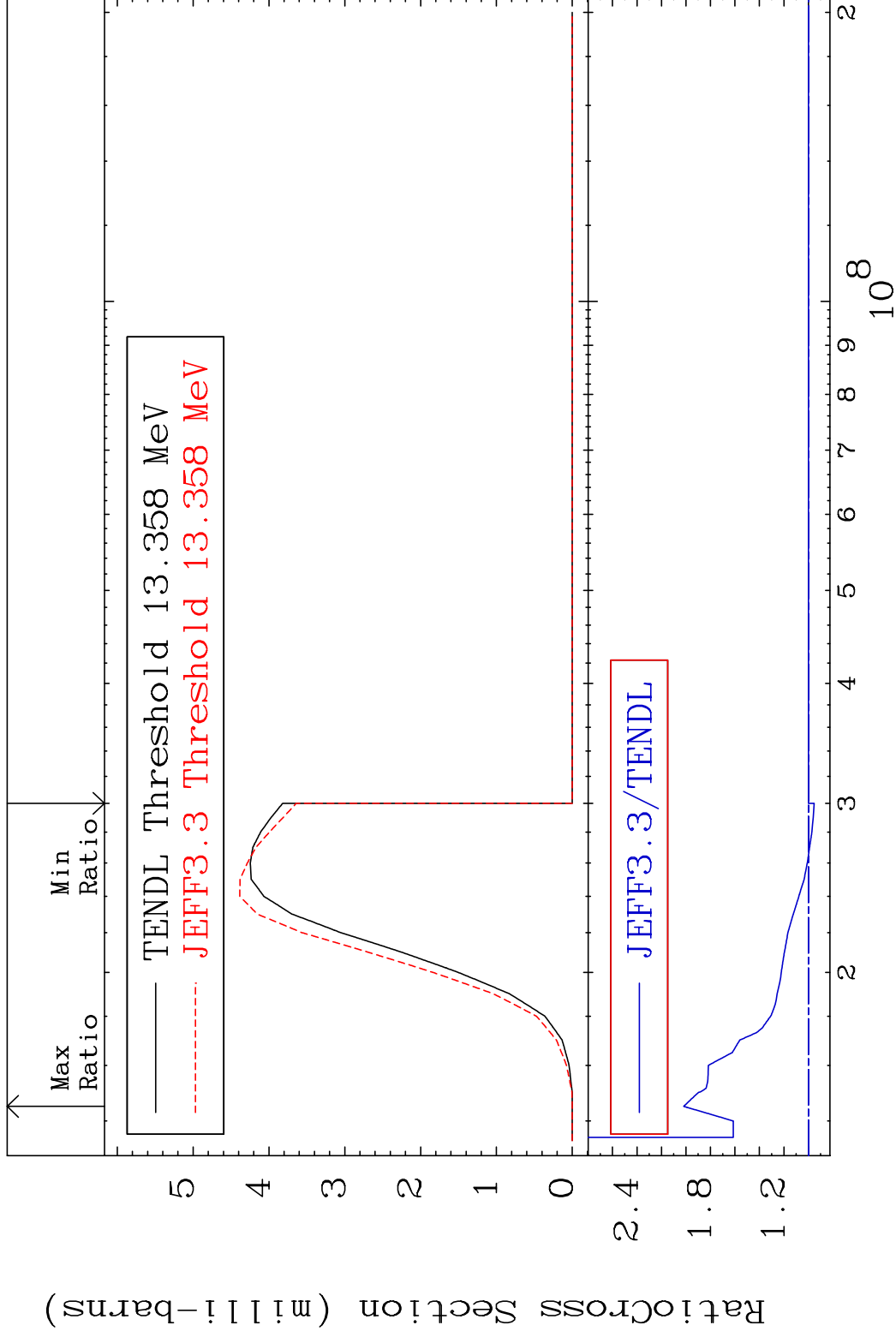


MAT 1637

(n, t)

16-S -36

Cross Section -4.664 To 101.9 %



42

Incident Energy (eV)

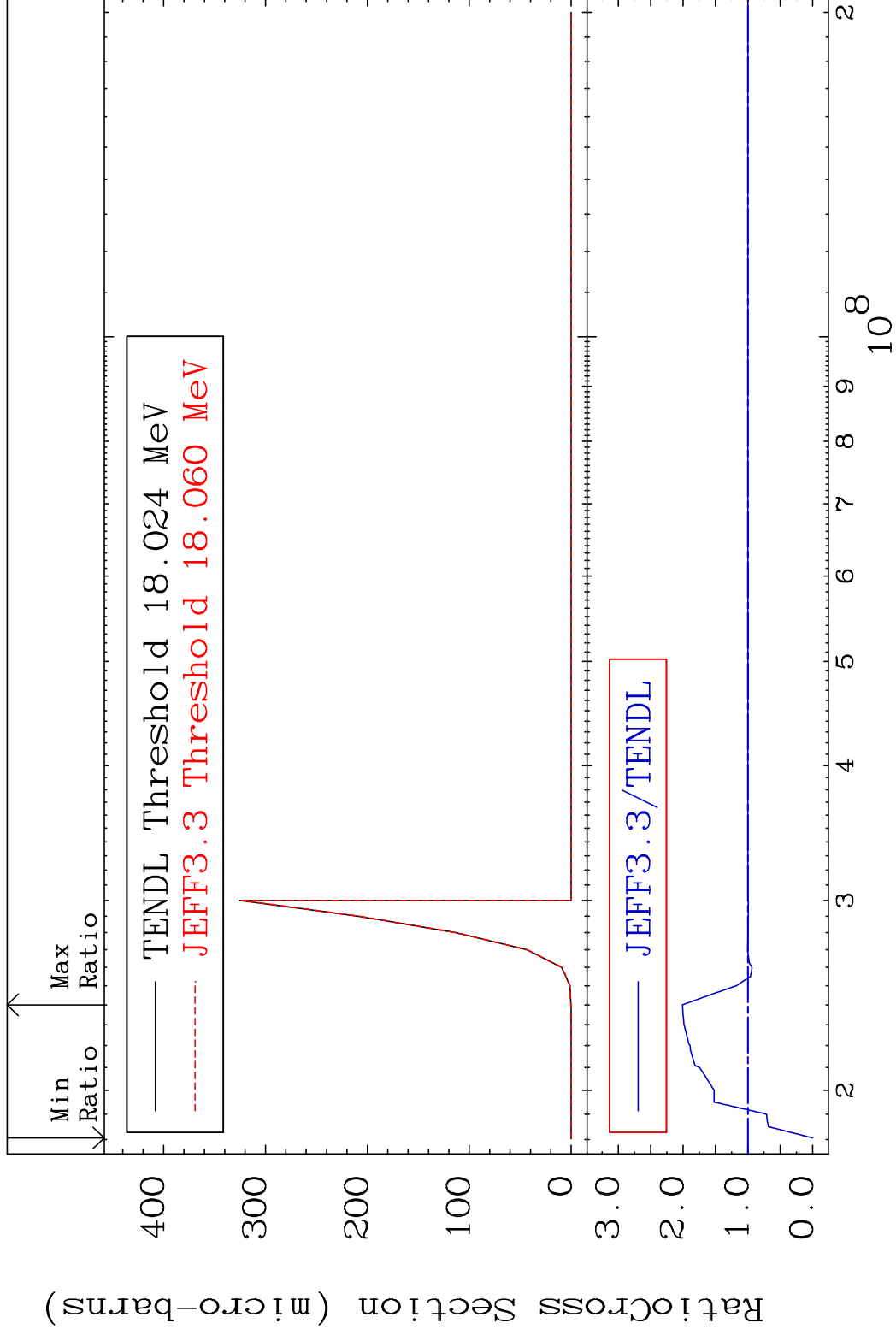
16-S -36

MAT 1637

(n, He-3)

16-S -36

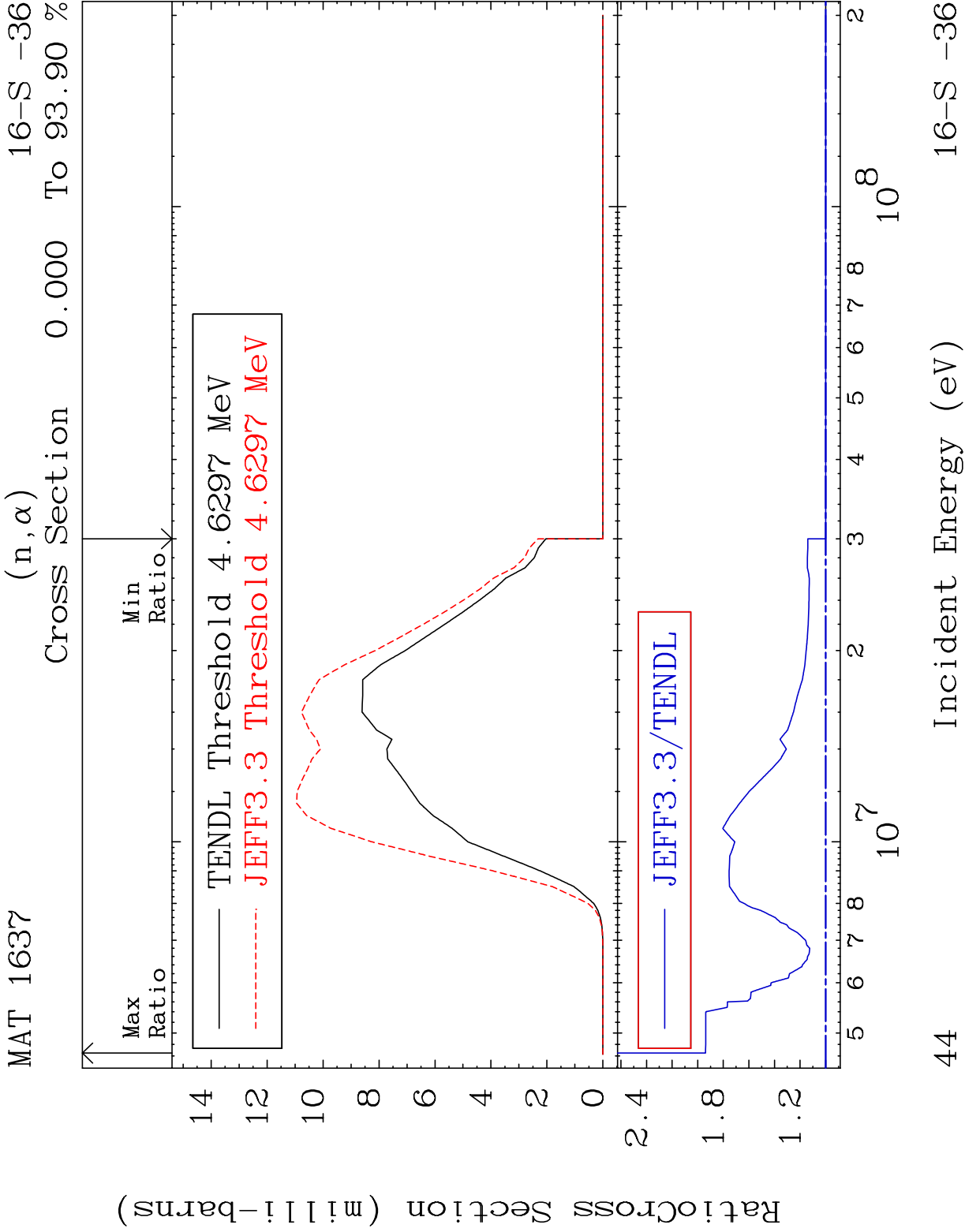
Cross Section -100.0 To 101.2 %



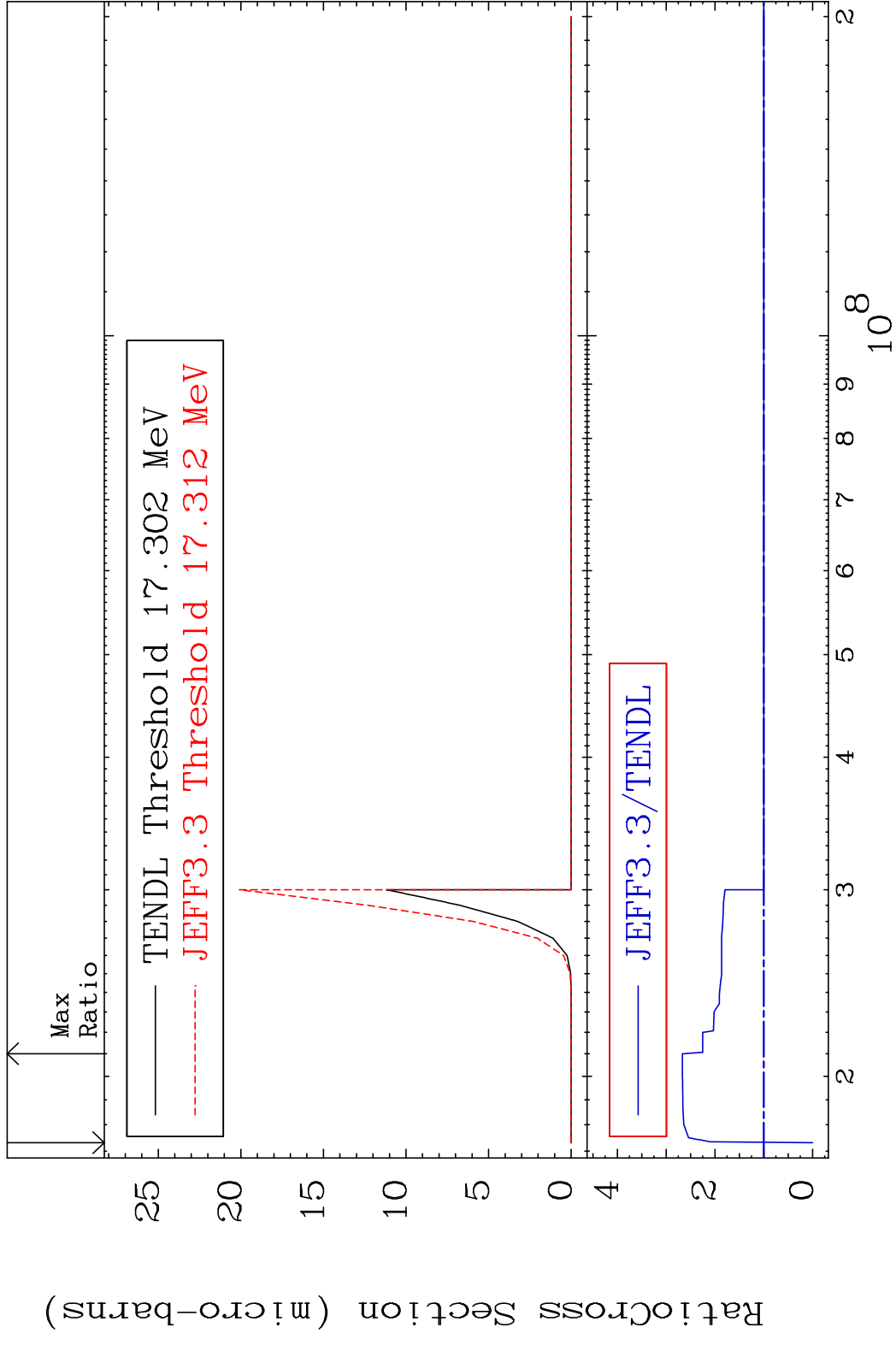
43

Incident Energy (eV)

16-S -36



MAT 1637 (n,2α) 16-S -36
 Cross Section -100.0 To 166.8 %

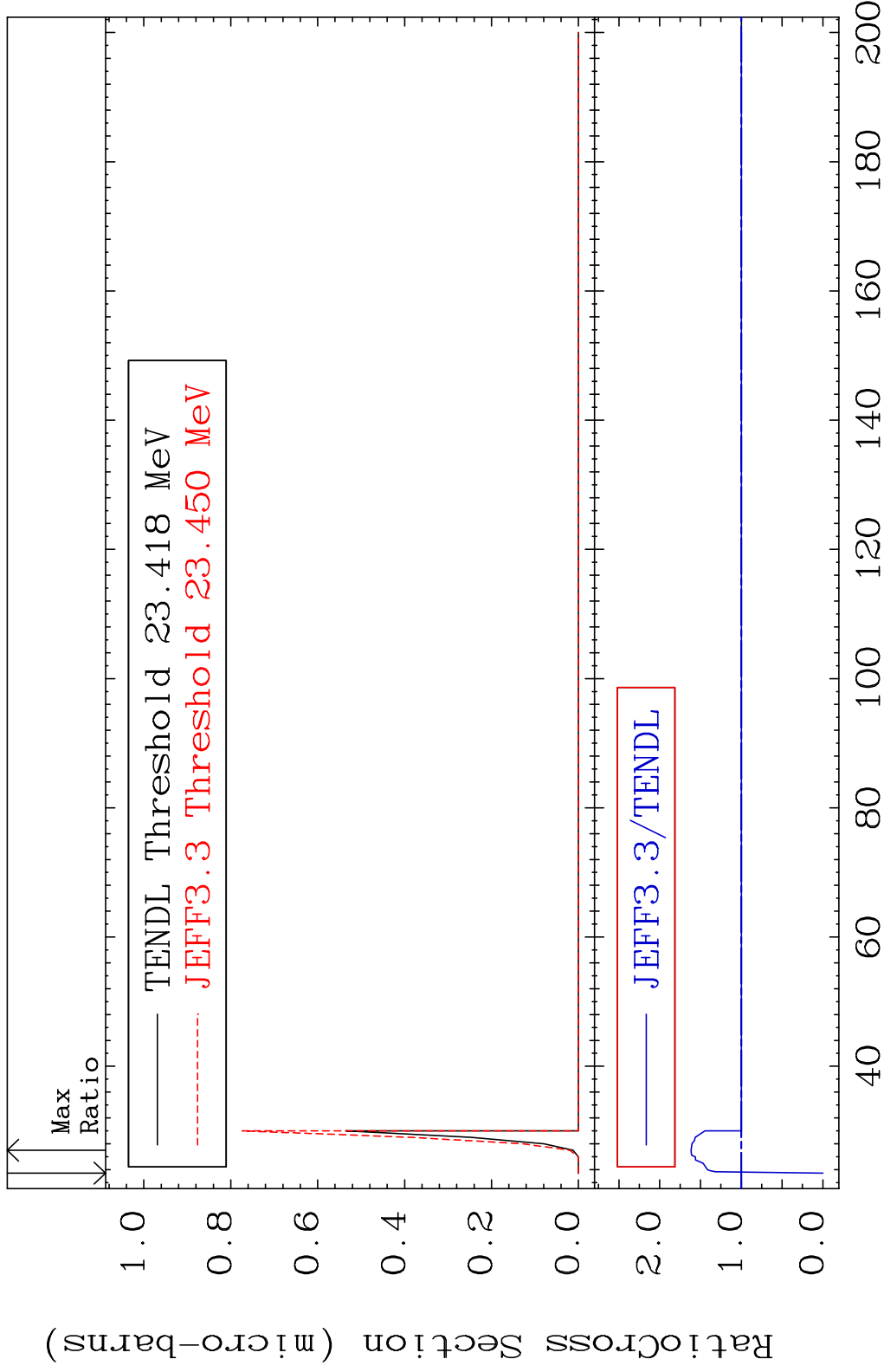


MAT 1637

(n,2p)

16-S -36

Cross Section -100.0 To 61.62 %



46

Incident Energy (MeV)

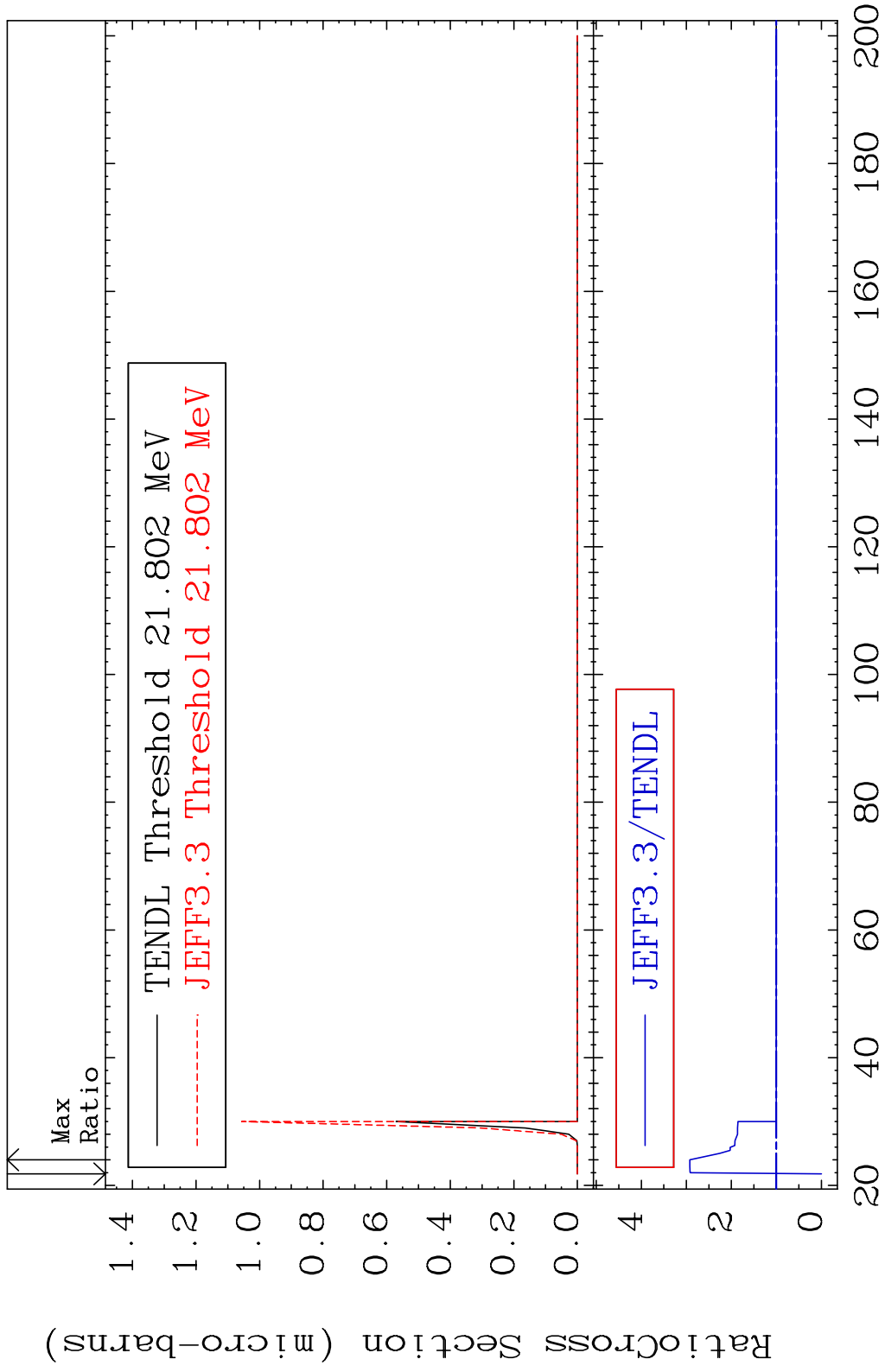
16-S -36

MAT 1637

(n,p) α

16-S -36

Cross Section -100.0 To 192.3 %



47

Incident Energy (MeV)

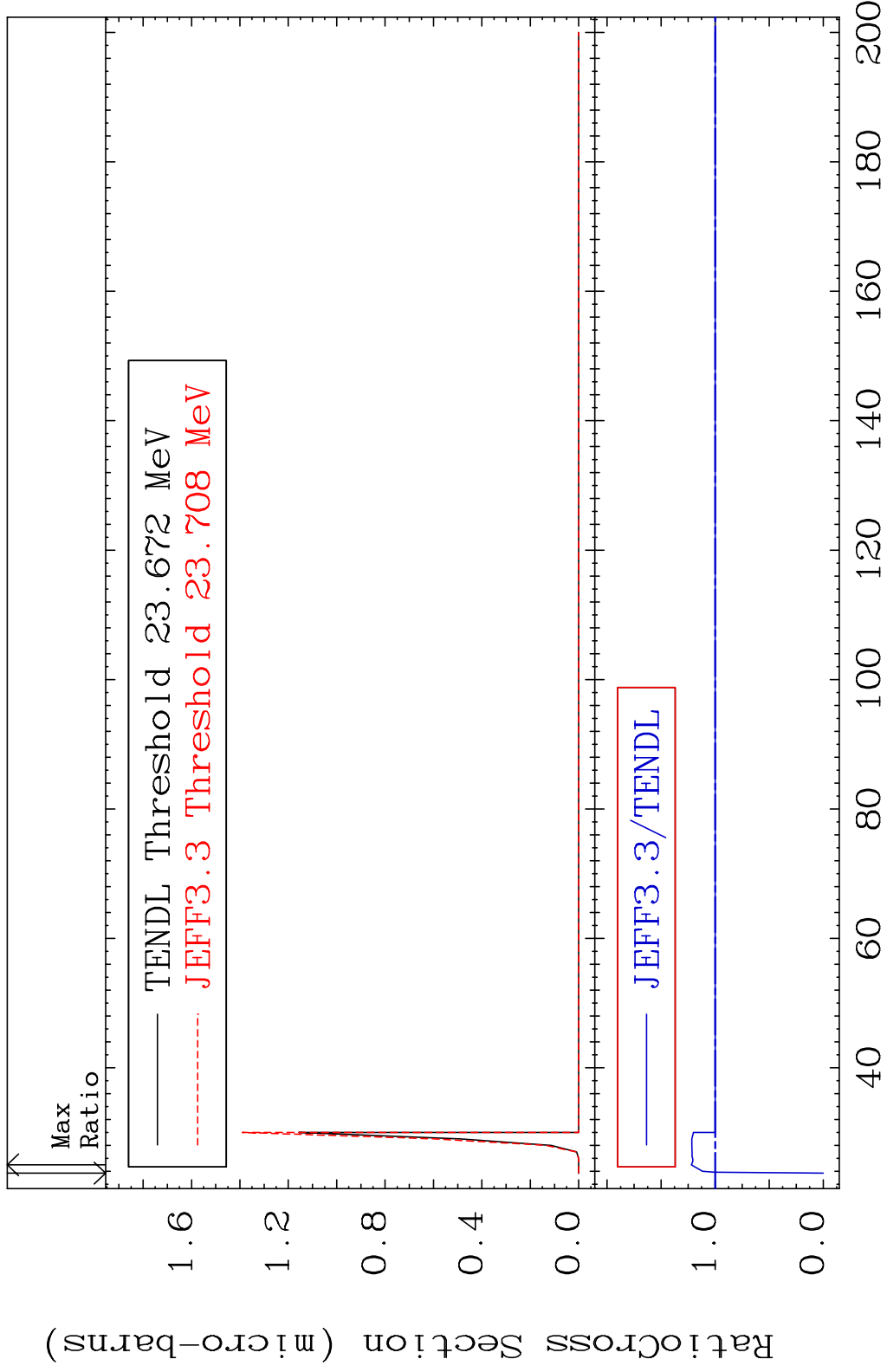
16-S -36

MAT 1637

(n,p) d

16-S -36

Cross Section -100.0 To 22.03 %



48

Incident Energy (MeV)

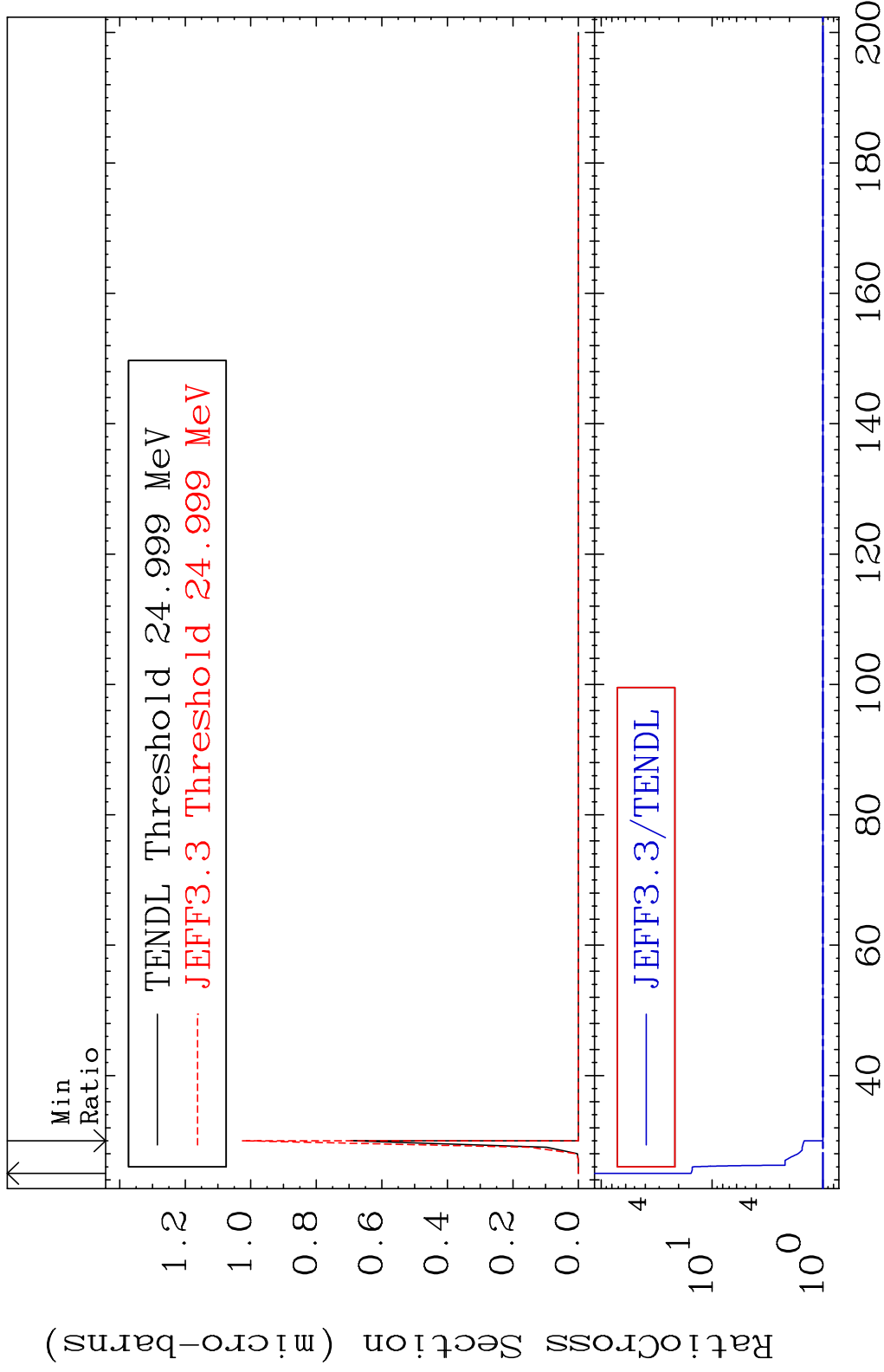
16-S -36

MAT 1637

(n,p) t

16-S -36

Cross Section 0.000 To 1447. %



49

Incident Energy (MeV)

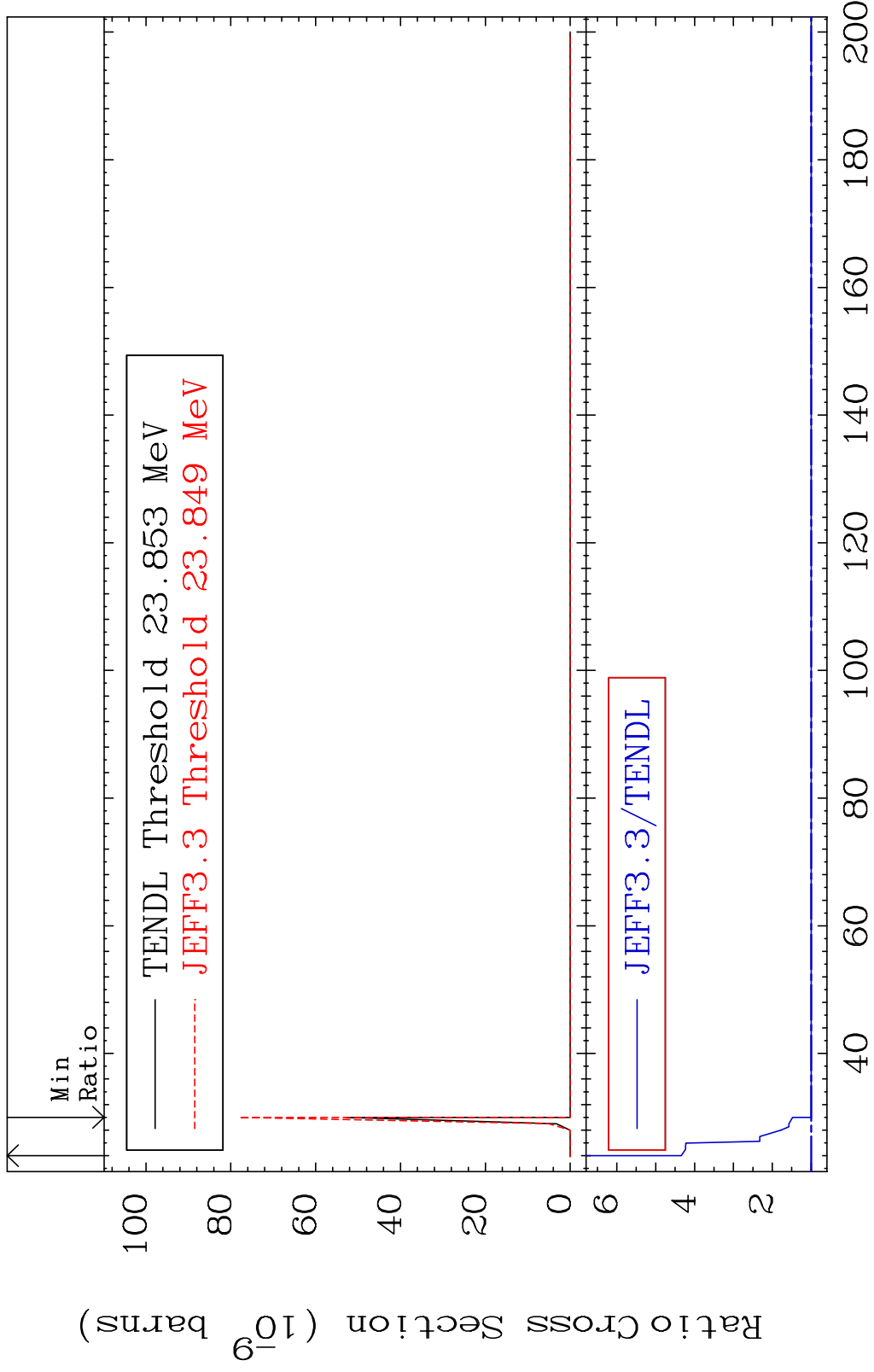
16-S -36

MAT 1637

(n,d) α

16-S -36

Cross Section 0.000 To 334.4 %



50

Incident Energy (MeV)

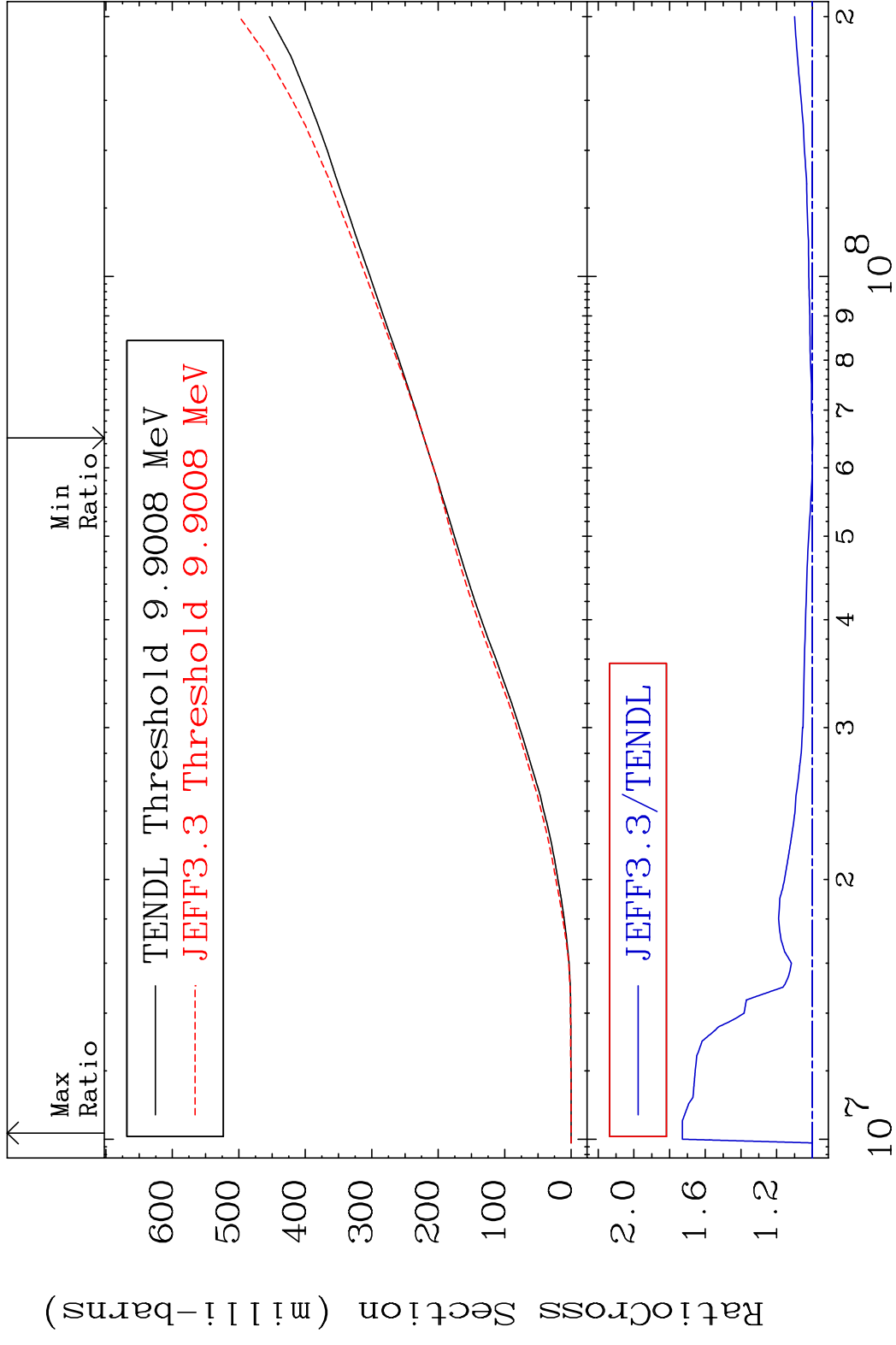
16-S -36

MAT 1637

Hydrogen Production

16-S -36

Cross Section -0.115 To 72.84 %

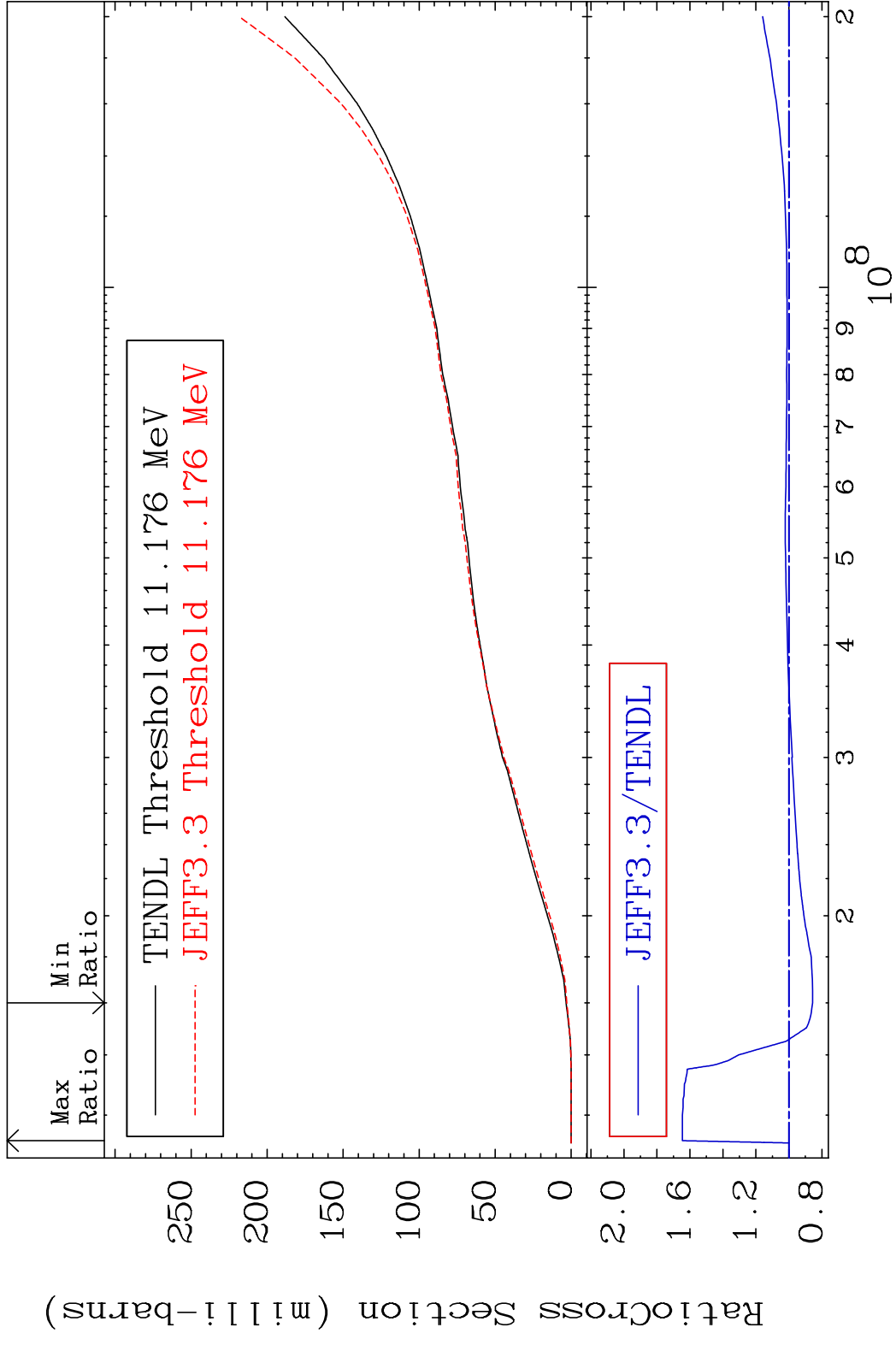


51

Incident Energy (eV)

16-S -36

Cross Section -14.33 To 64.57 %

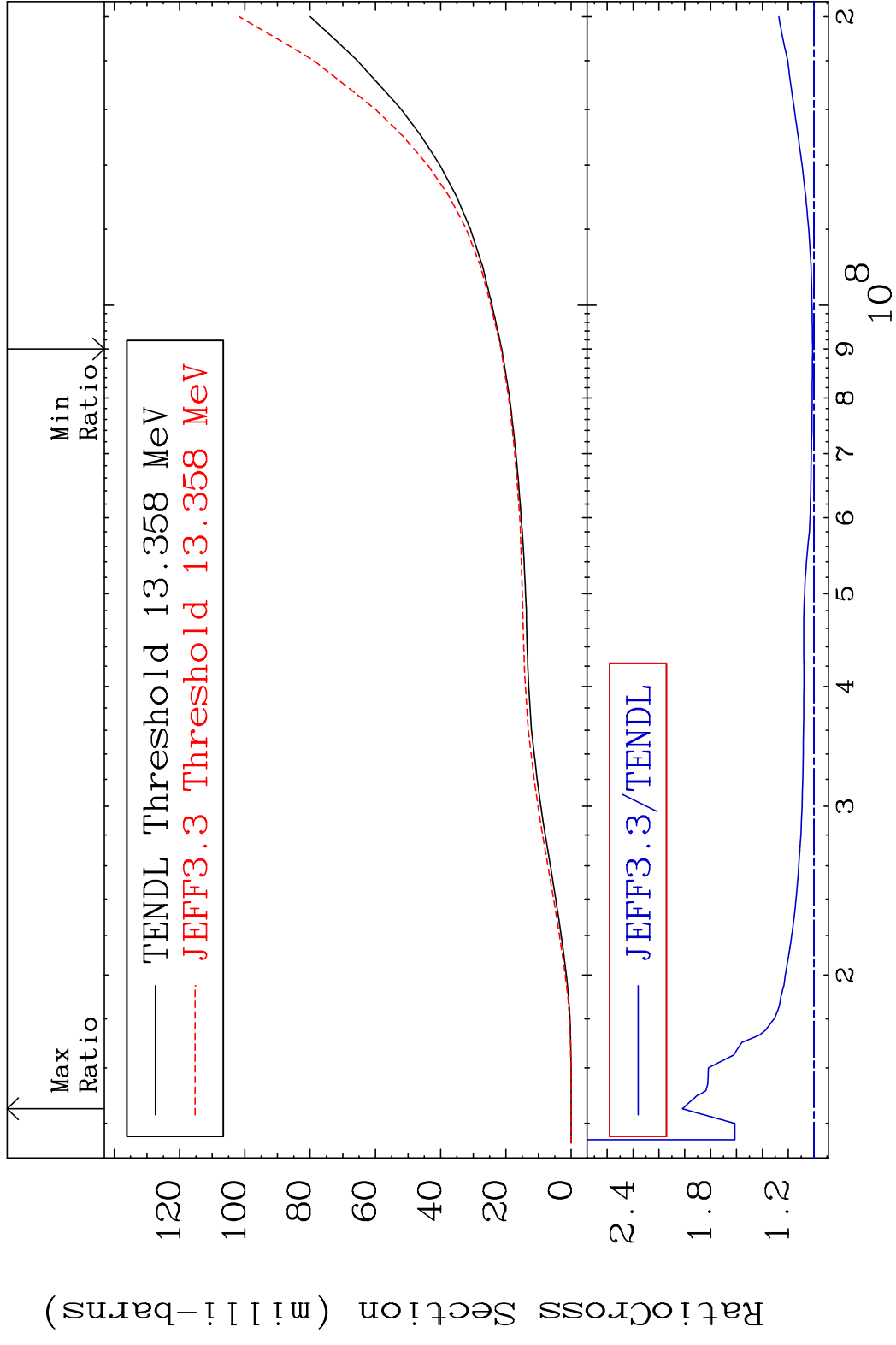


MAT 1637

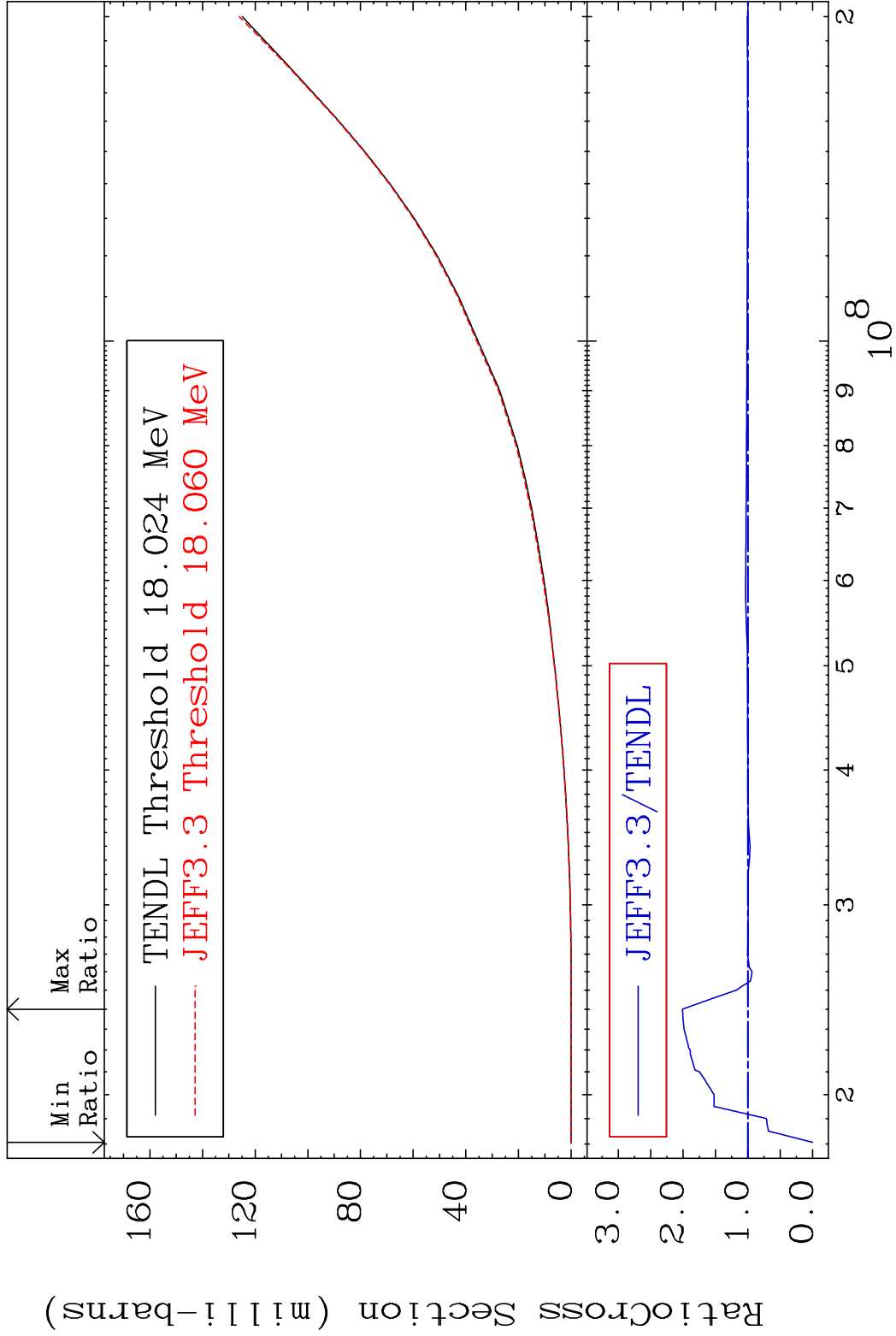
Tritium Production

16-S -36

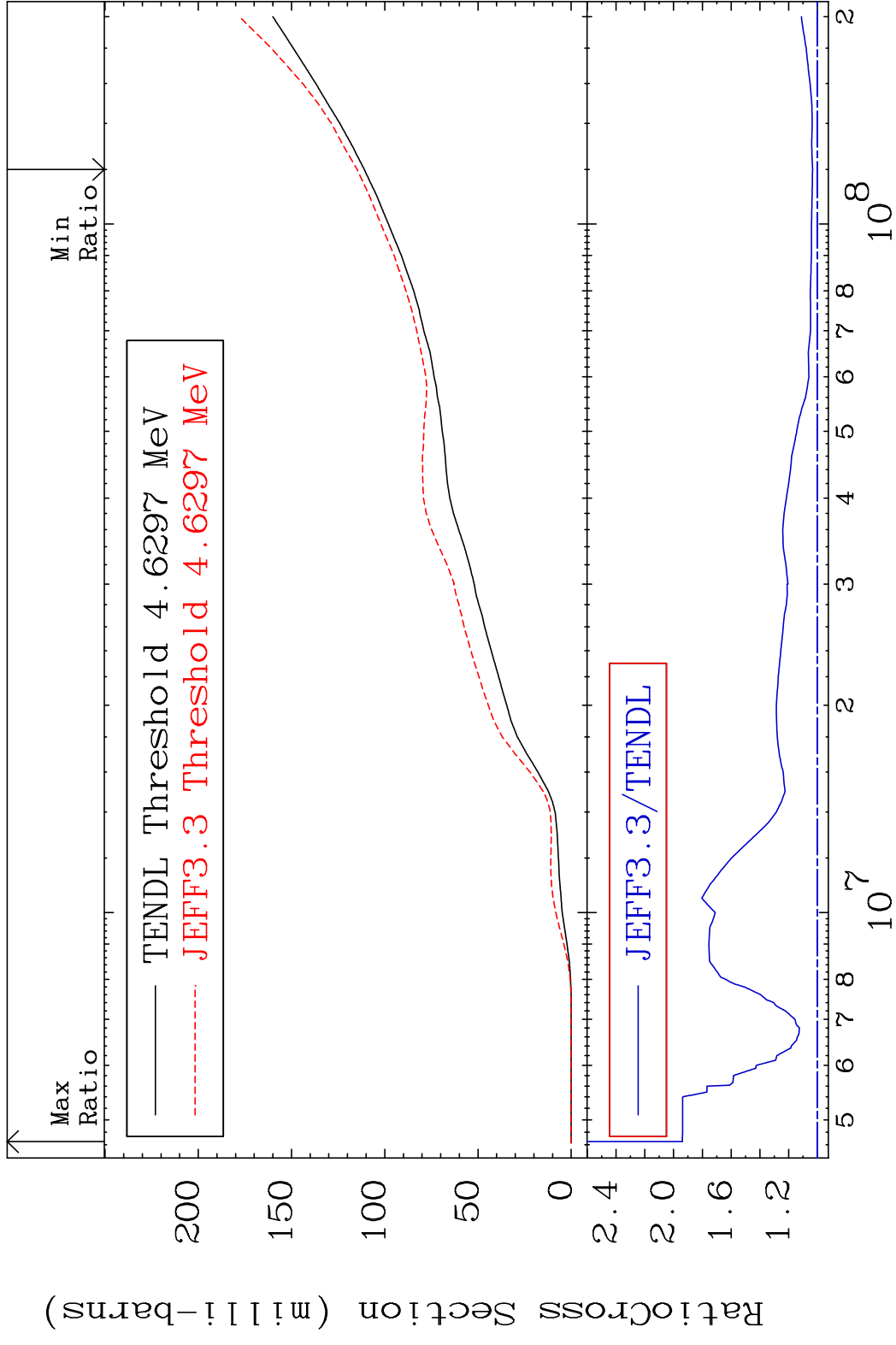
Cross Section 1.136 To 101.9 %



Cross Section -100.0 To 101.2 %

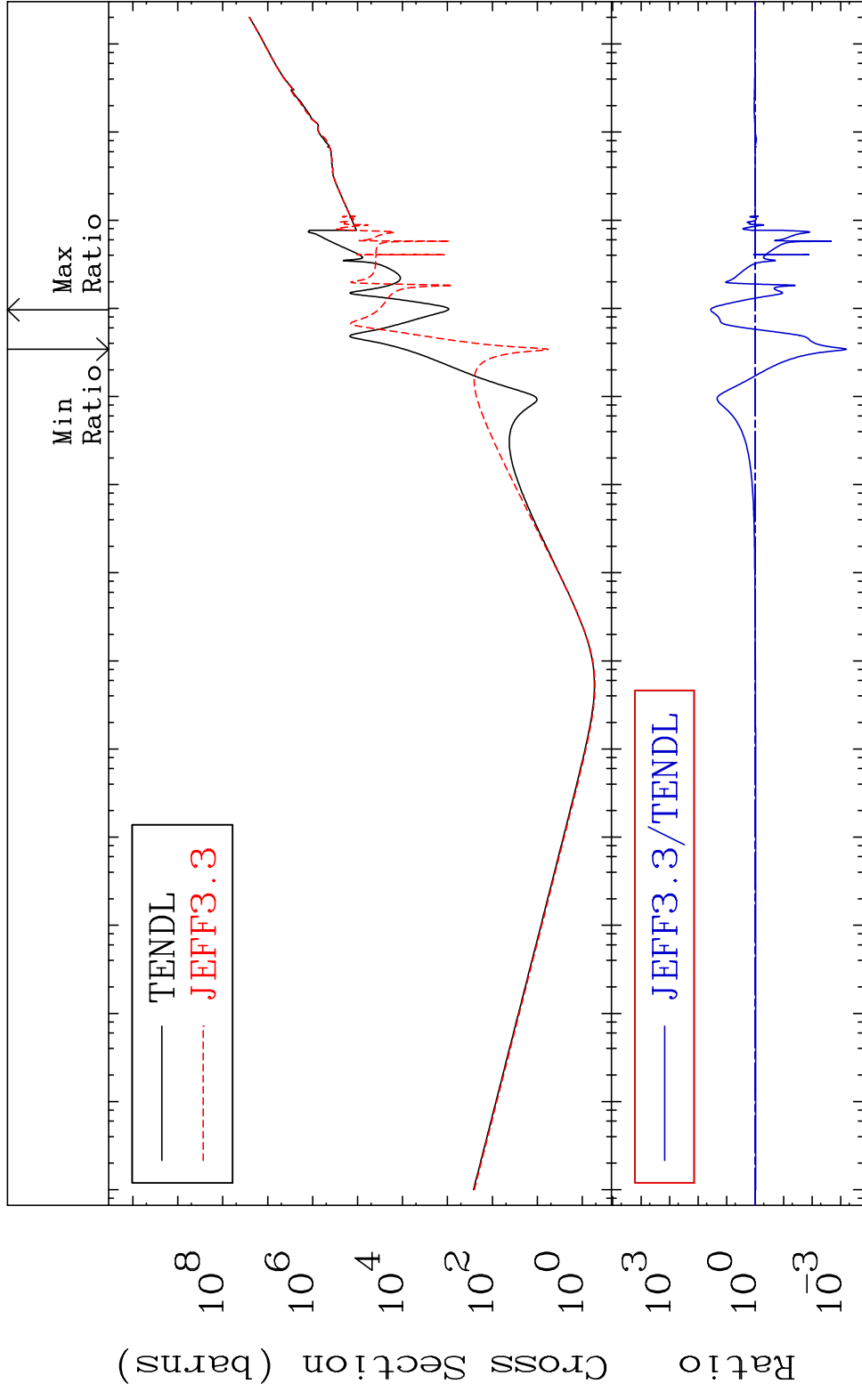


MAT 1637 He-4 Production 16-S -36
 Cross Section 3.430 To 93.90 %



MAT 1637

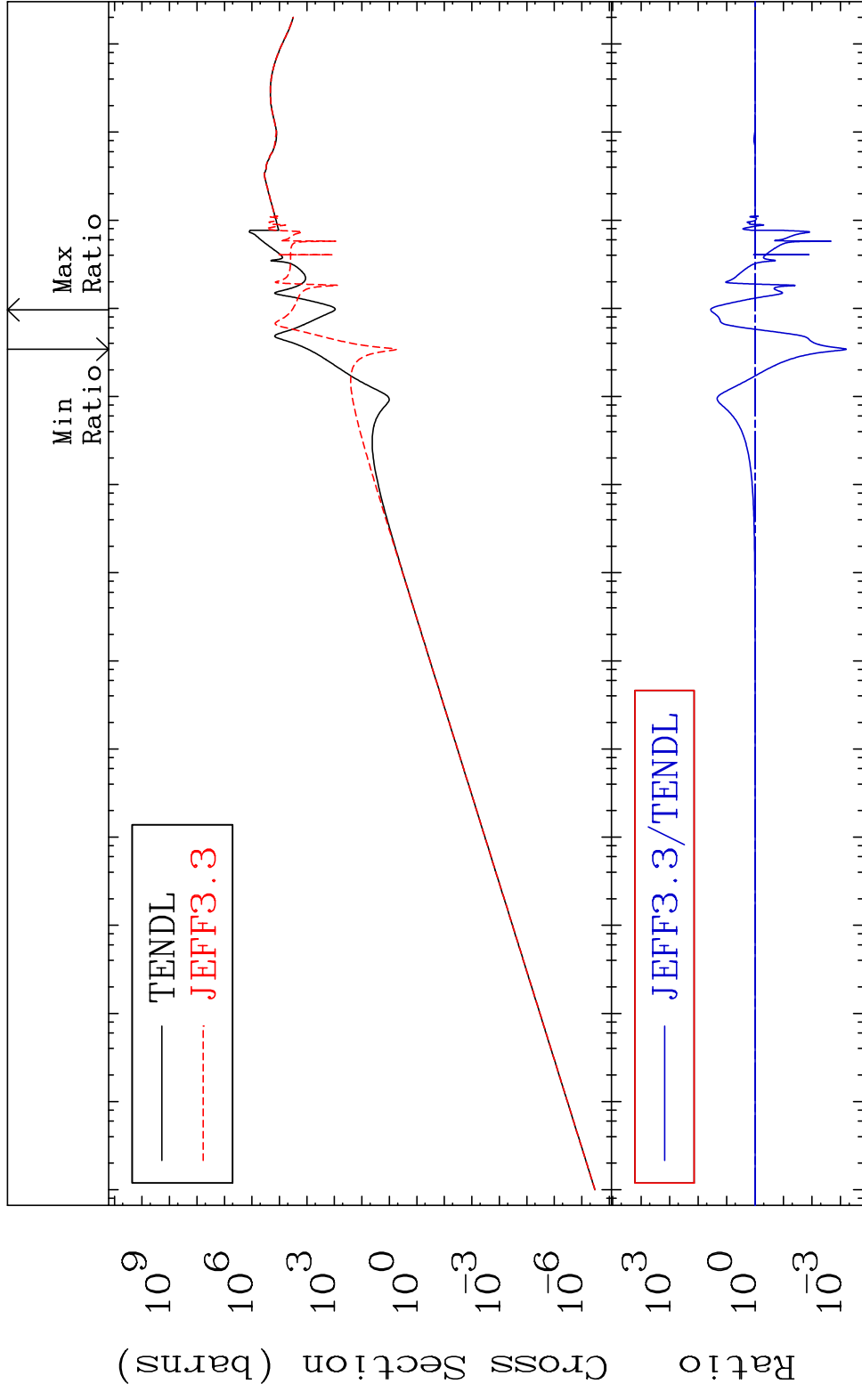
Kerma total (eV-barns) 16-S -36
Cross Section -99.94 To 3497. %



MAT 1637

Kerma elastic
Cross Section

16-S -36
-99.94 To 3497. %

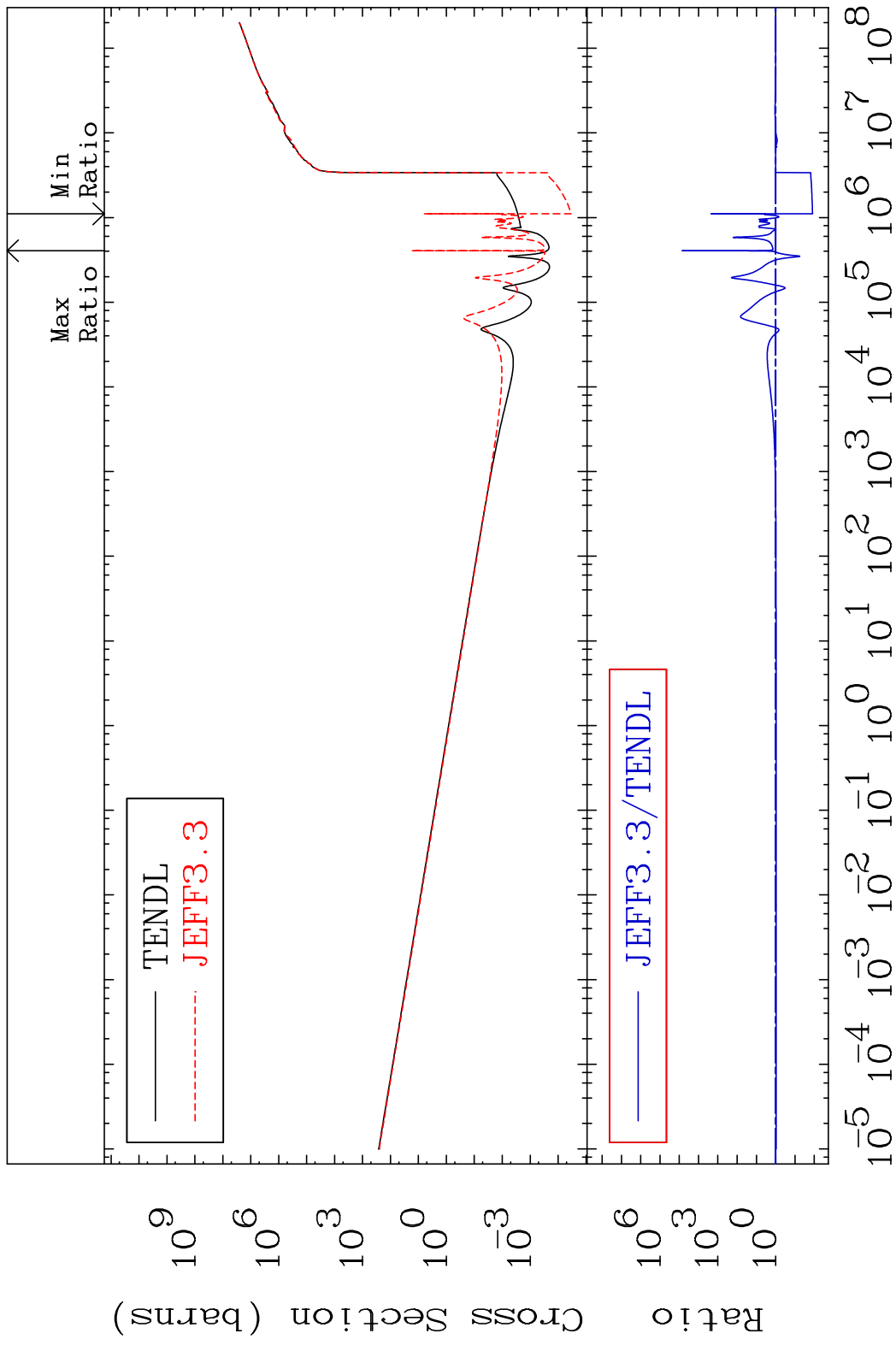


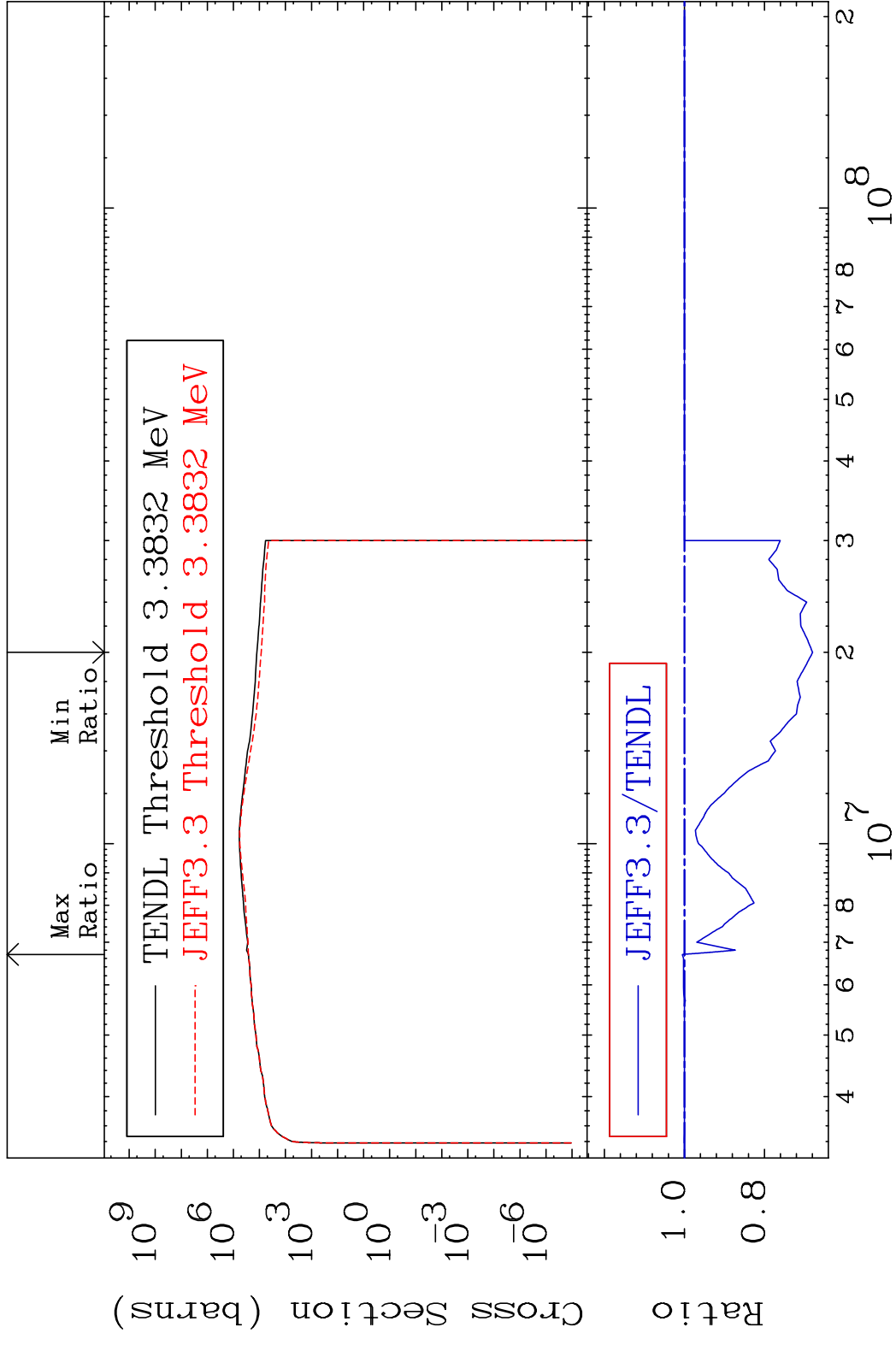
57

Incident Energy (eV)

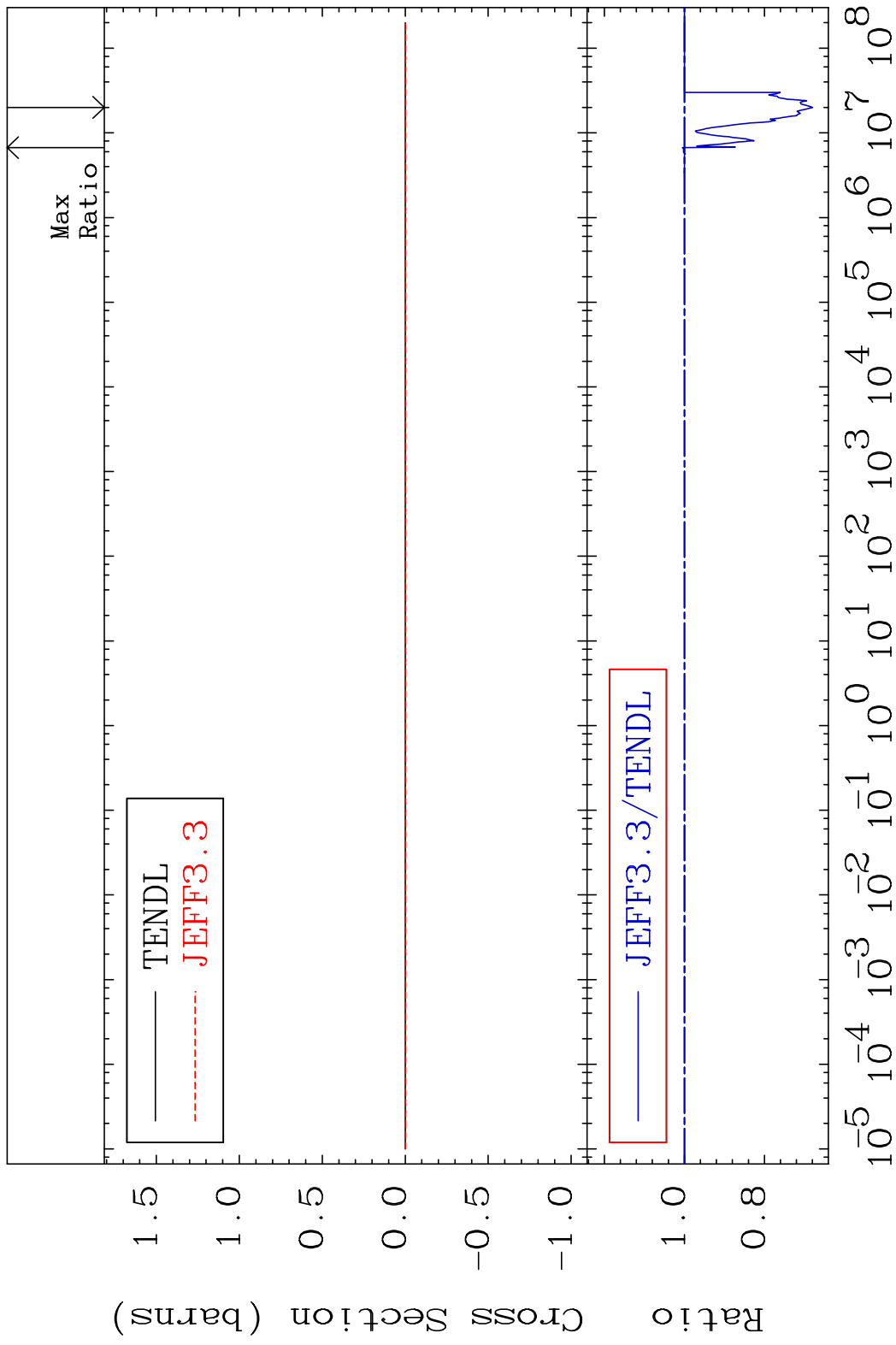
16-S -36

MAT 1637 Kerma non-elastic (all but mt2) 16-S -36
 Cross Section -98.78 To 9999. %



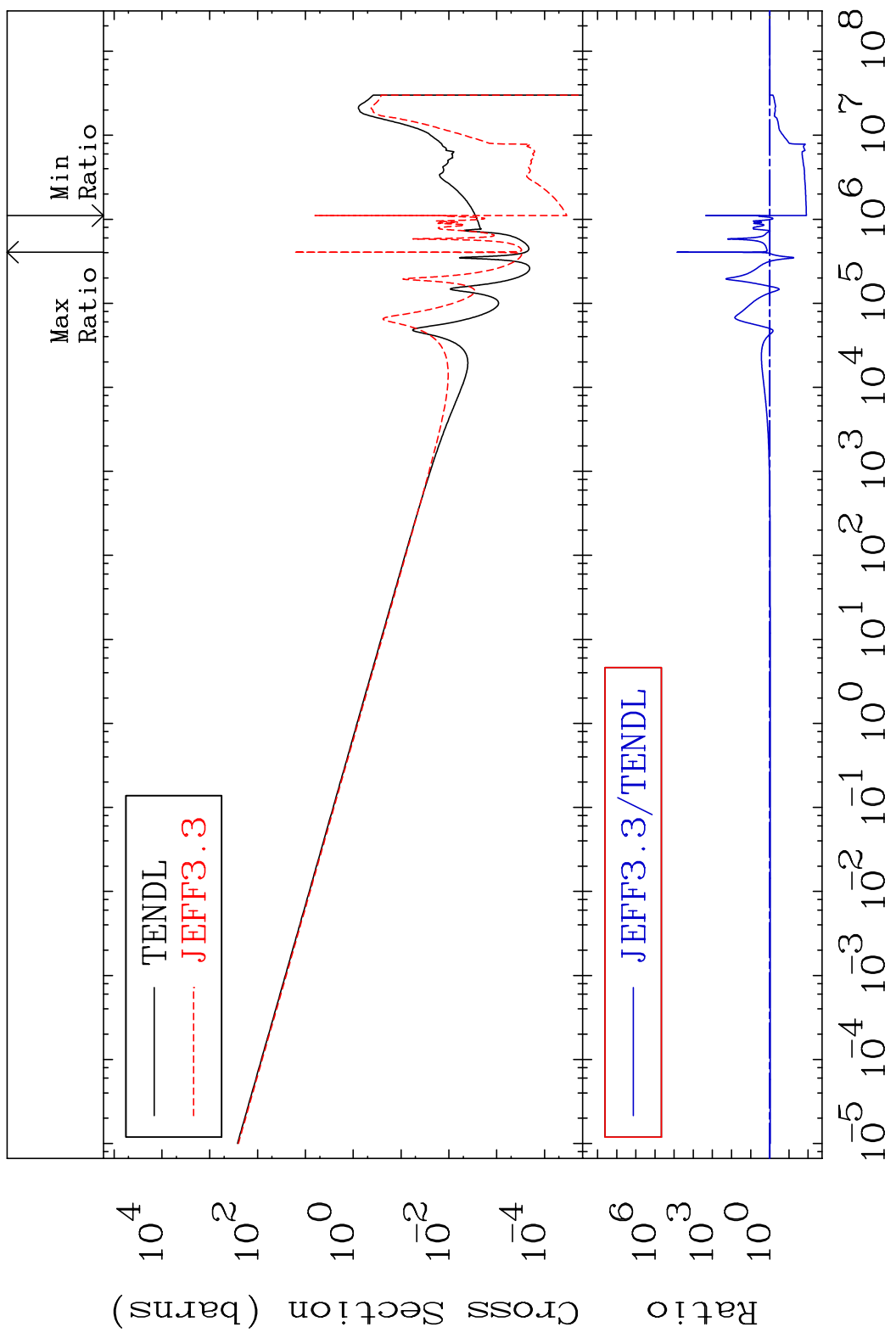


MAT 1637 Kerma fission (mt18 or mt19-20-21-38) 16-S -36
 Cross Section -32.03 To 0.507 %



MAT 1637

Kerma capture (mt102) 16-S -36
Cross Section -98.78 To 9999. %

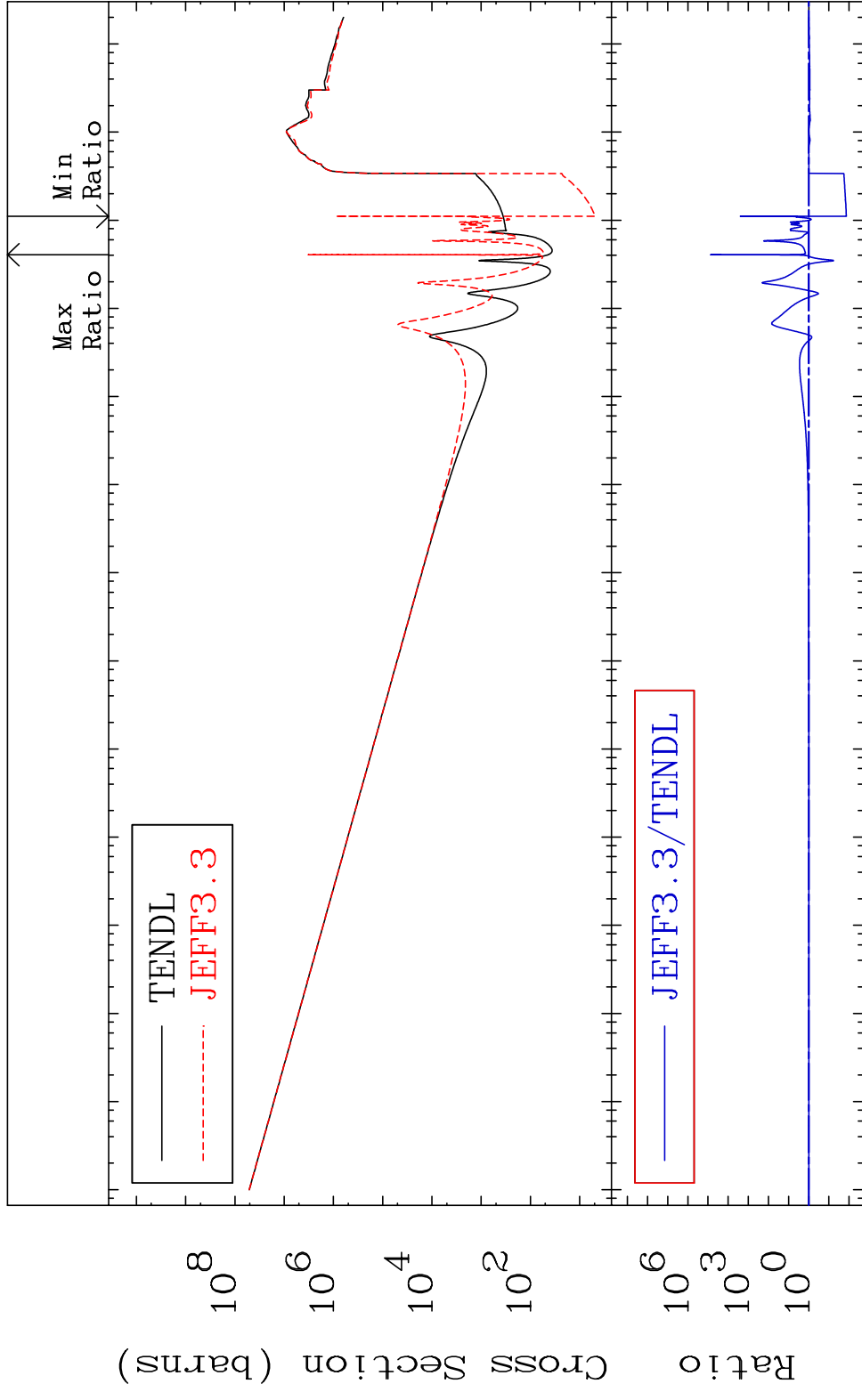


61

Incident Energy (eV)

16-S -36

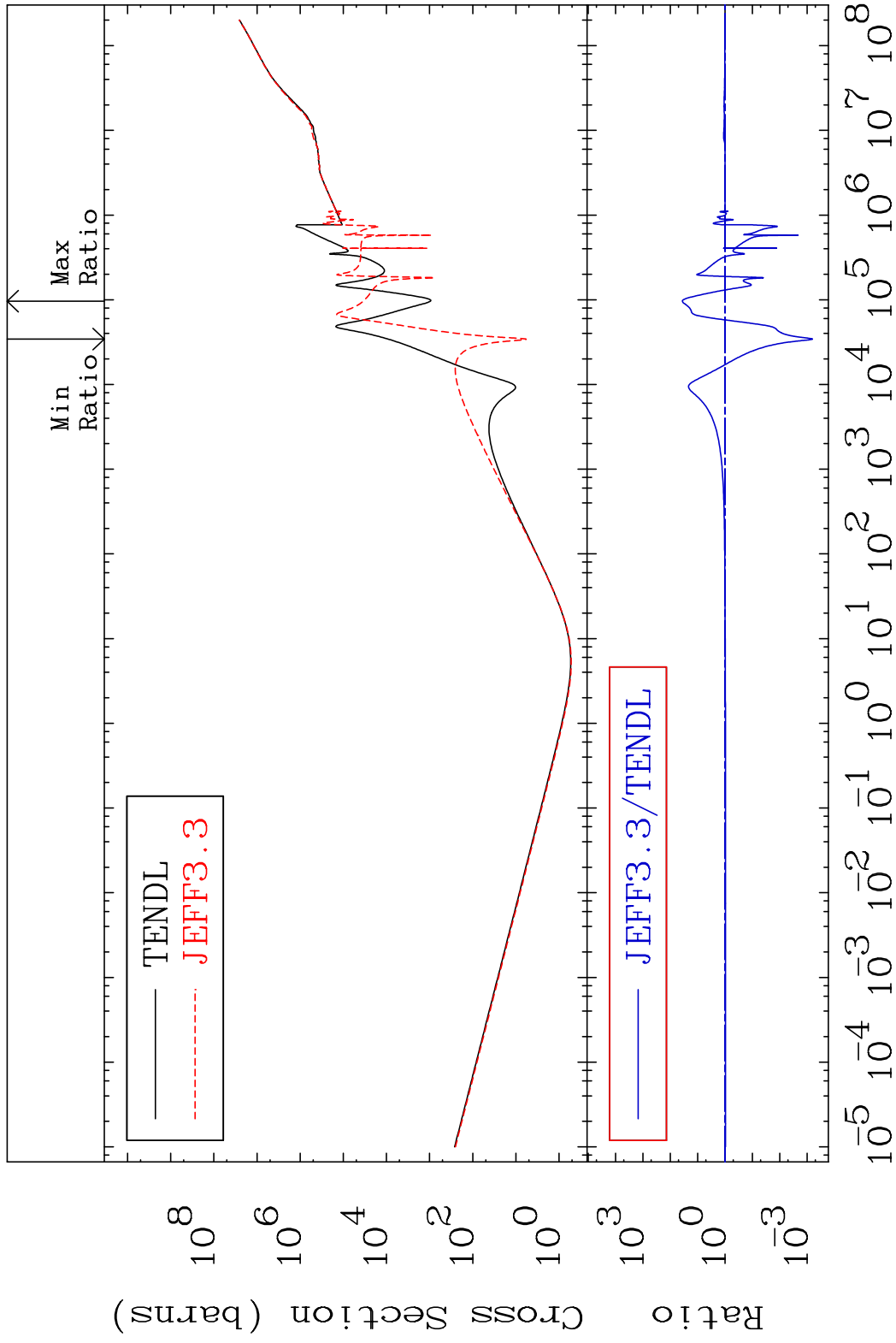
MAT 1637 Total photon (eV-barns) 16-S -36
 Cross Section -98.64 To 9999. %



Ratio
 10^6
 10^3
 10^0

Incident Energy (eV) 16-S -36

MAT 1637 Total kinematic kerma (high limit) 16-S -36
 Cross Section -99.94 To 3497. %

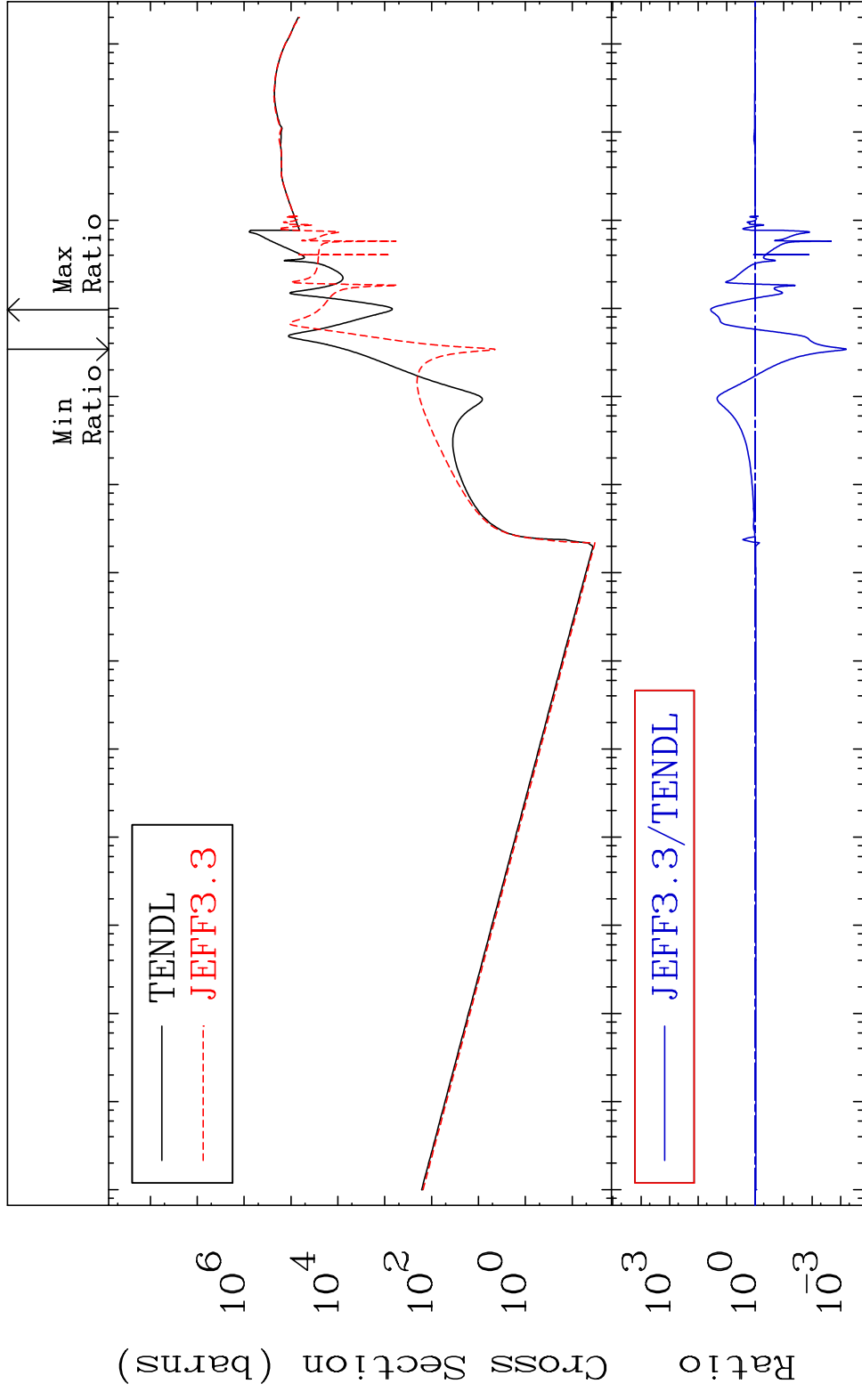


MAT 1637

Dpa total (eV-barns)

16-S -36

Cross Section -99.94 To 3496. %

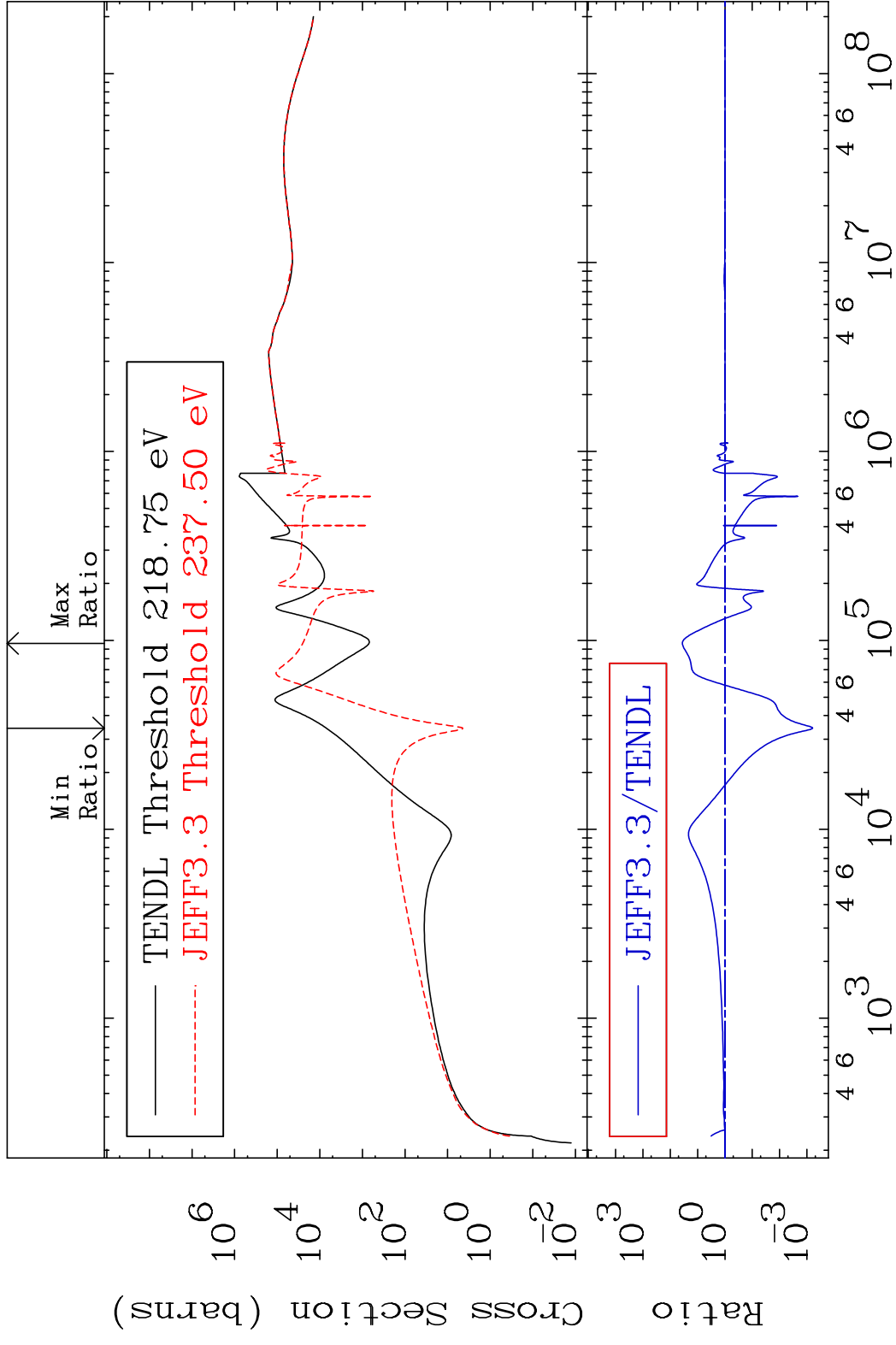


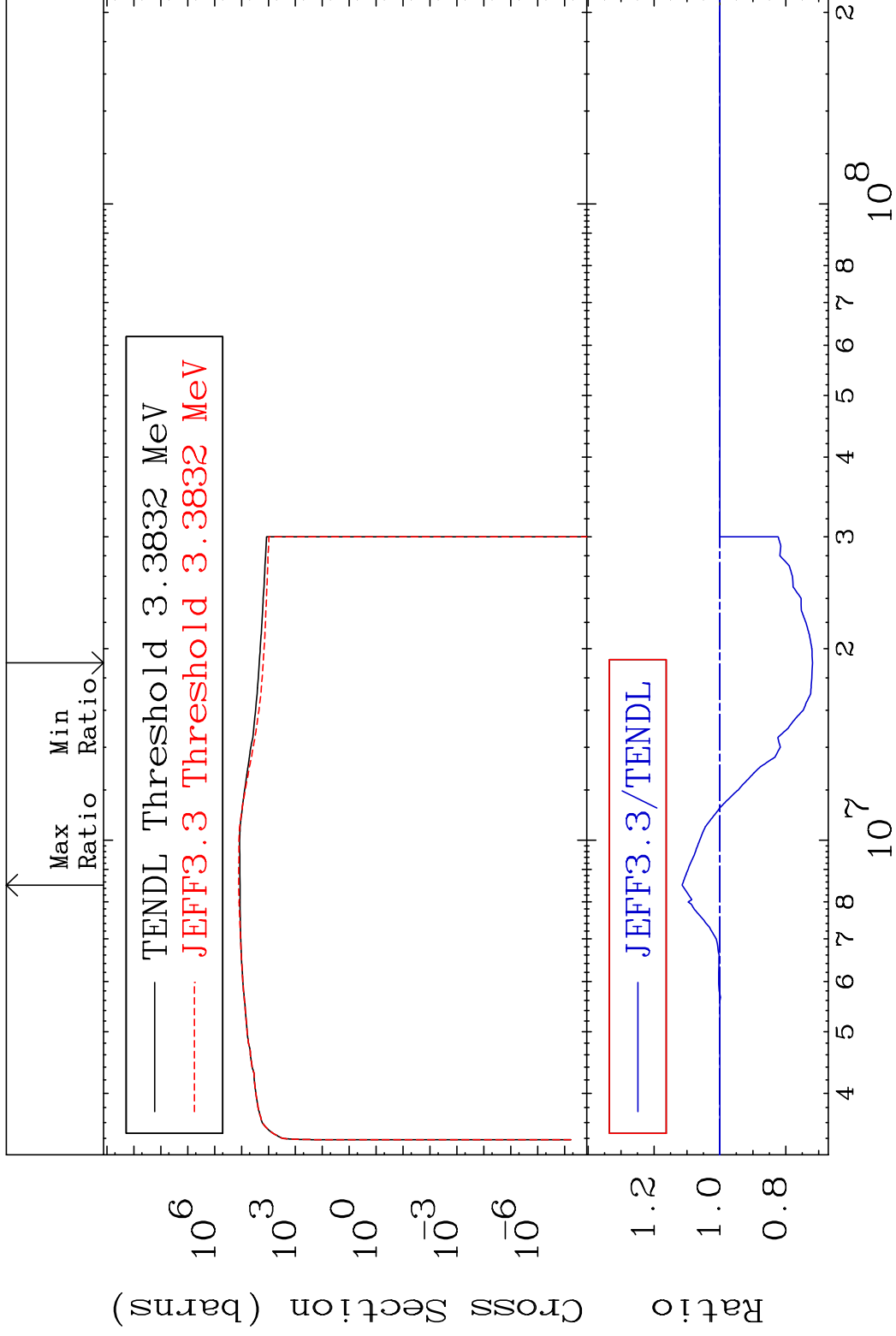
64

Incident Energy (eV)

16-S -36

Cross Section -99.94 To 3496. %





MAT 1637 Dpa disappearance (mt102 -120) 16-S -36
 Cross Section -98.81 To 9999. %

