

Program Complot
(Version 2021-1)

by

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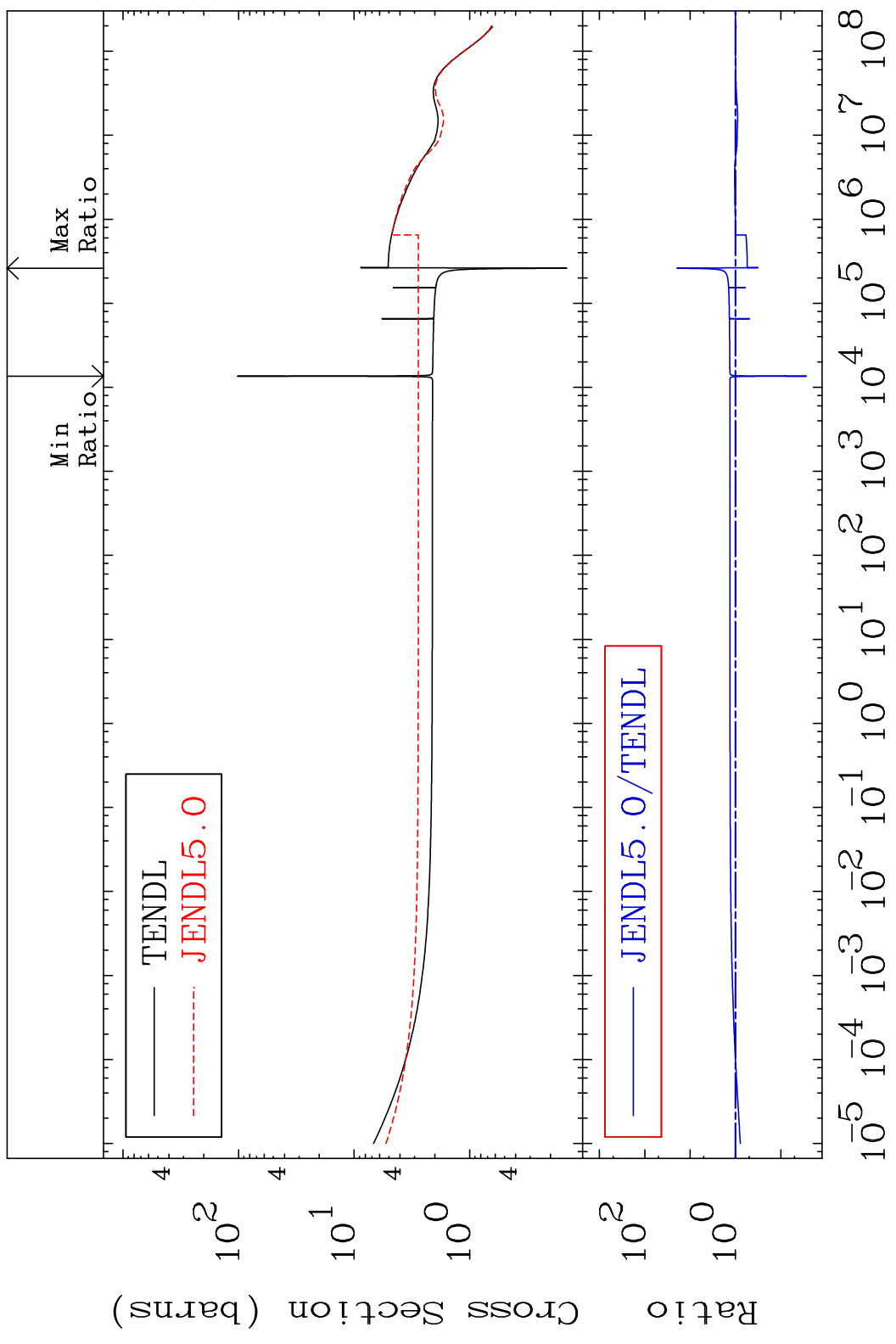
Press Mouse Button to Start

MAT 1437

Total

14-Si-32

Cross Section -97.27 To 1830. %



1

Incident Energy (eV)

14-Si-32

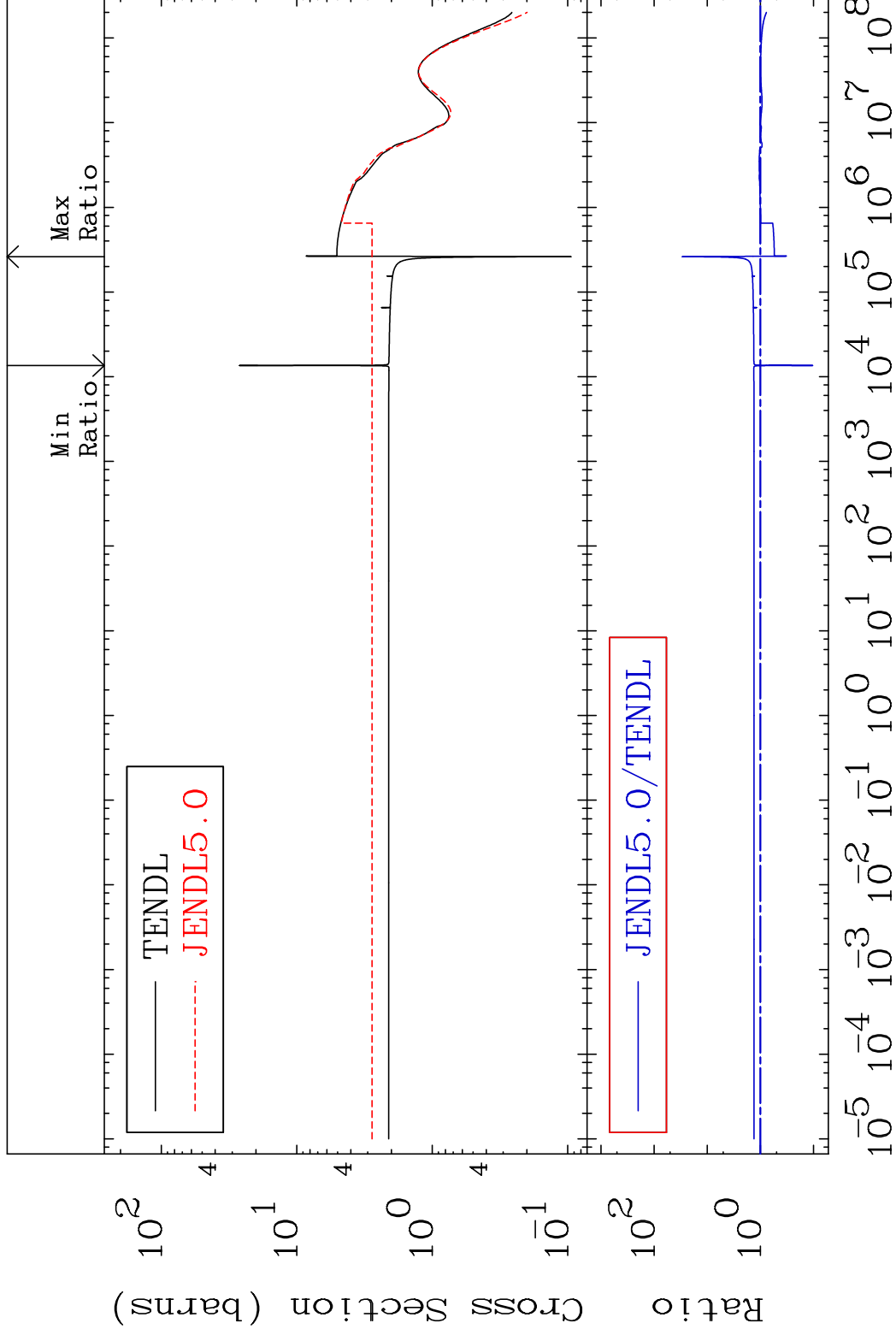
MAT 1437

Elastic

14-Si-32

Cross Section

-89.53 To 2848. %

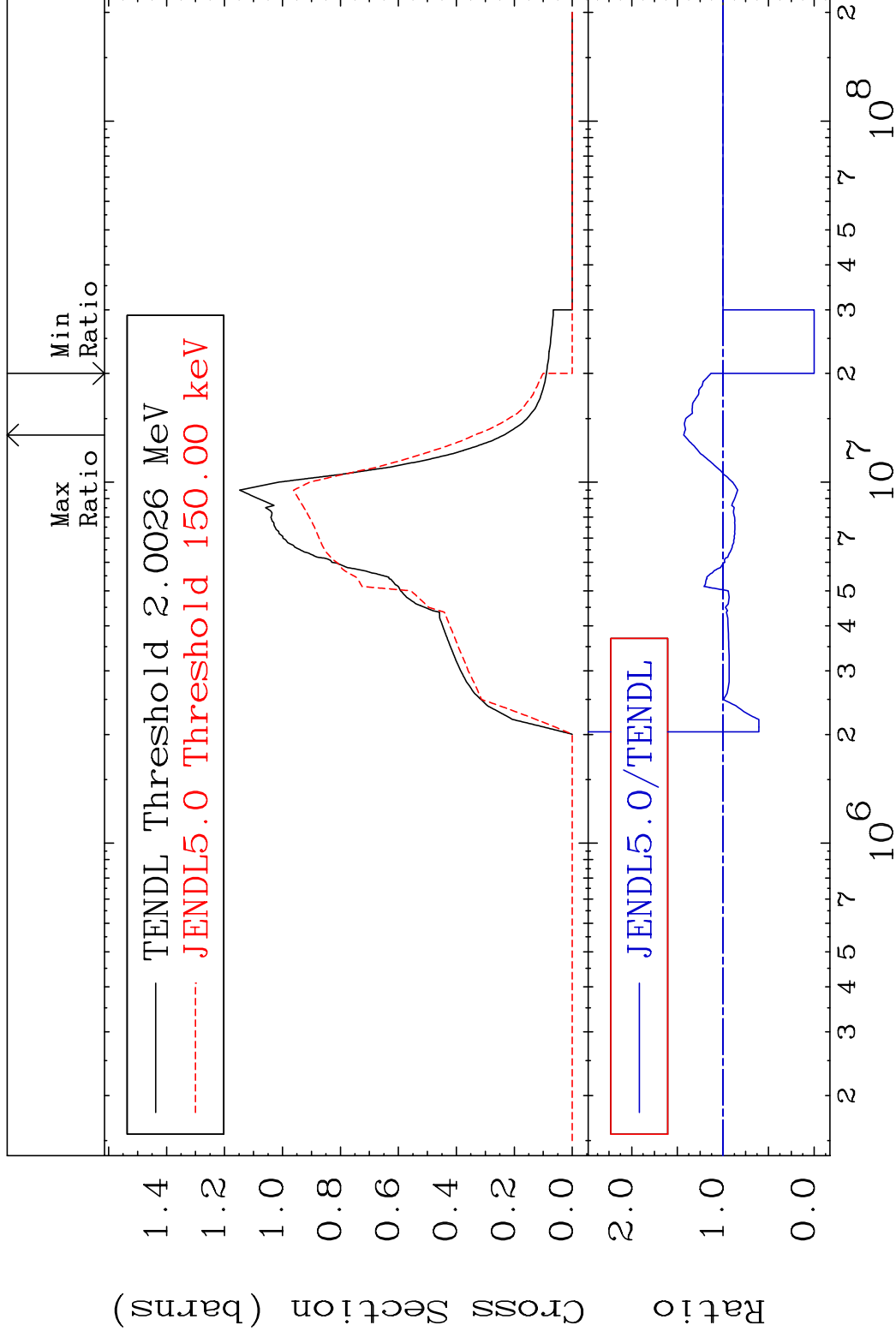


MAT 1437

Inelastic

¹⁴Si-32

Cross Section -100.0 To 43.05 %



3

Incident Energy (eV)

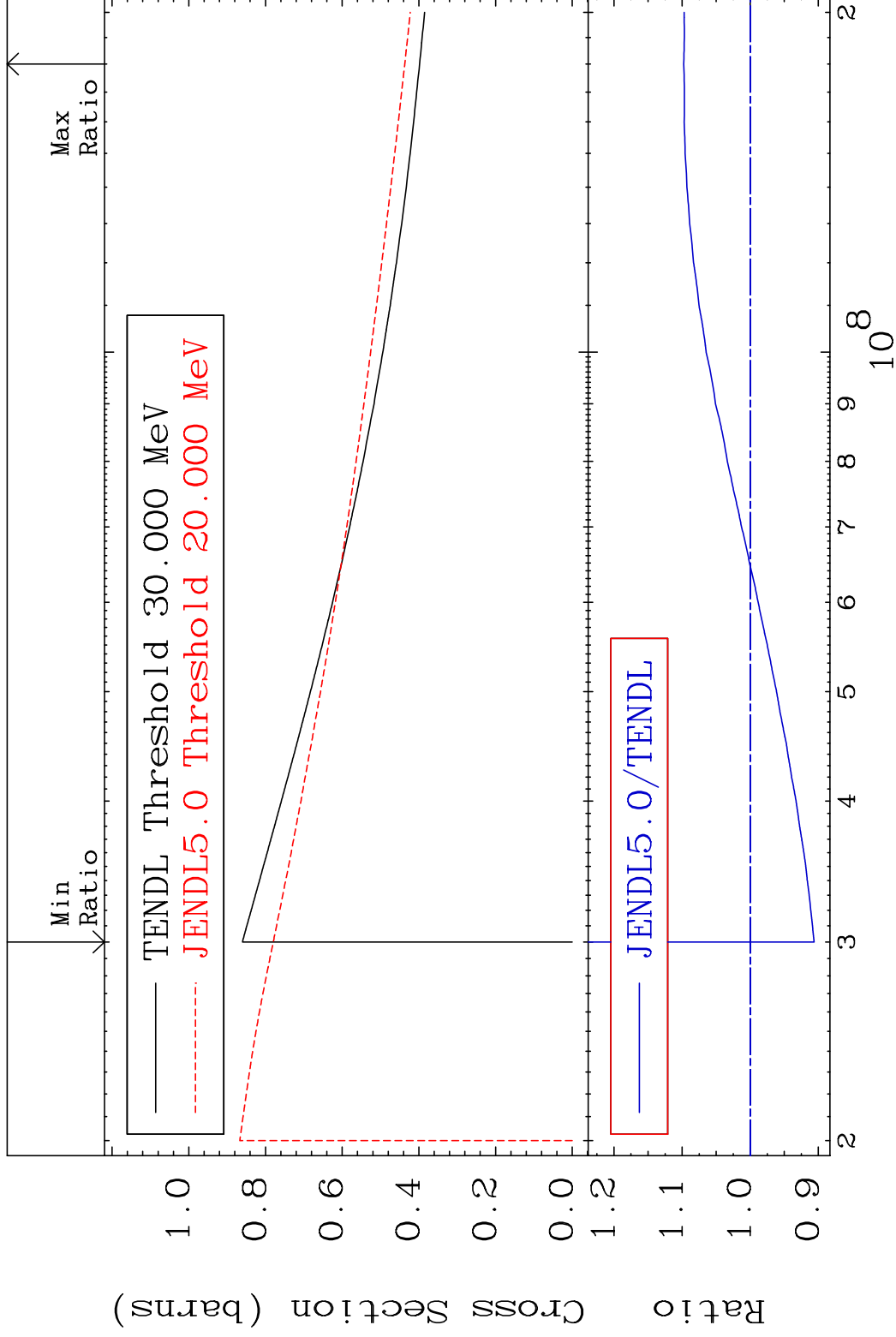
¹⁴Si-32

MAT 1437

(n, remainder)

14-Si-32

Cross Section -9.372 To 9.773 %



4

Incident Energy (eV)

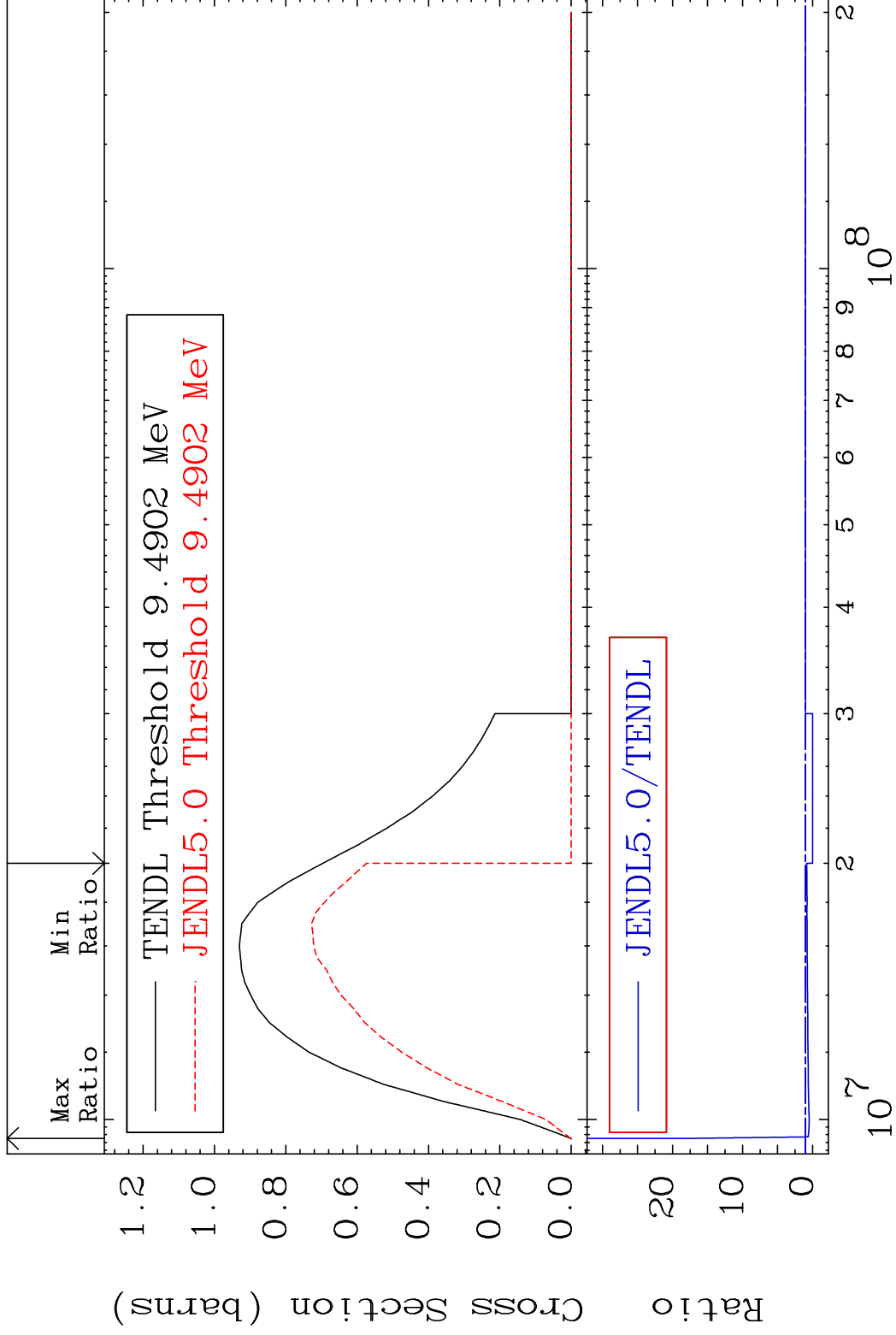
14-Si-32

MAT 1437

(n,2n)

14-Si-32

Cross Section -100.0 To 1760. %



5

Incident Energy (eV)

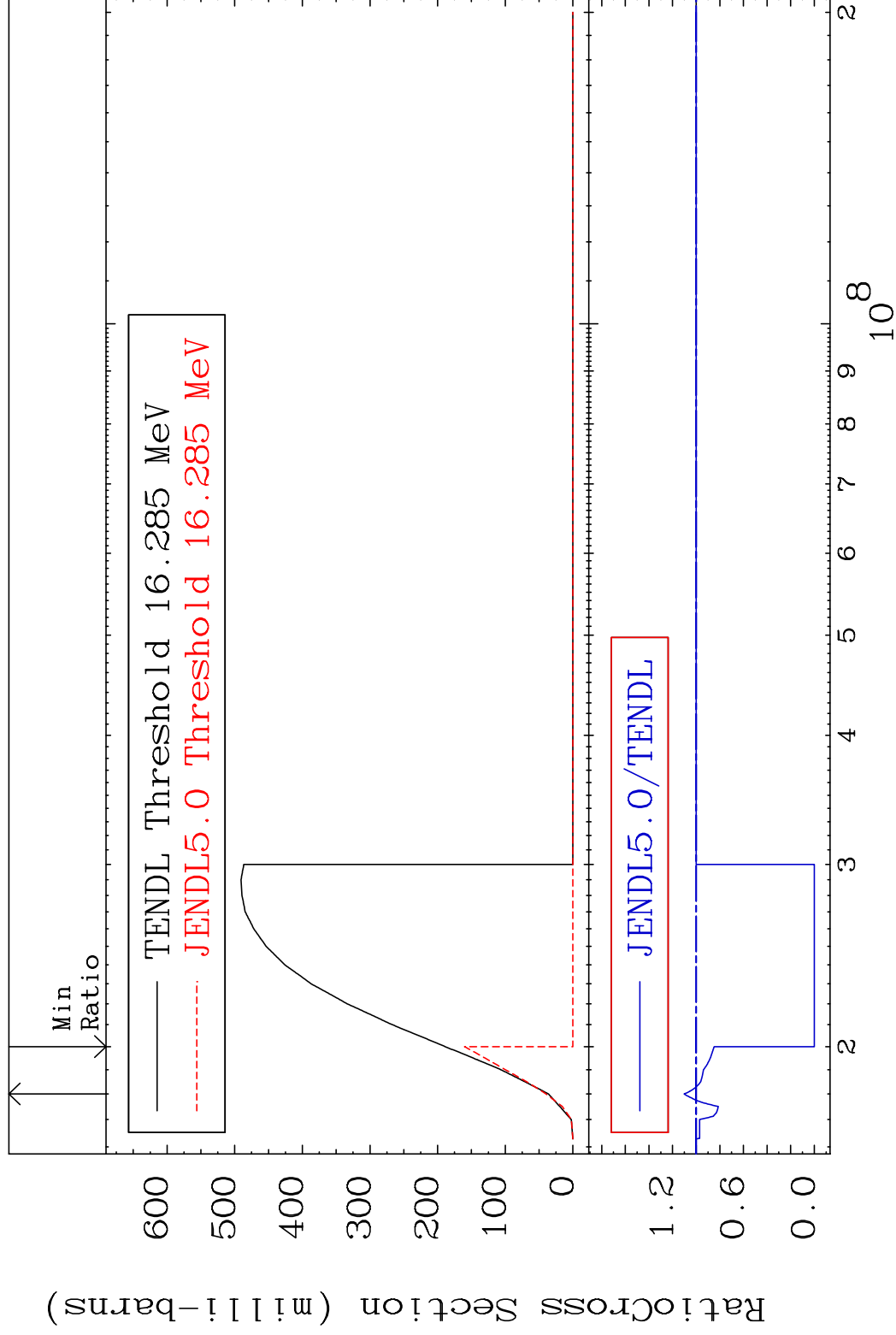
14-Si-32

MAT 1437

(n,3n)

¹⁴Si-32

Cross Section -100.0 To 10.26 %



6

Incident Energy (eV)

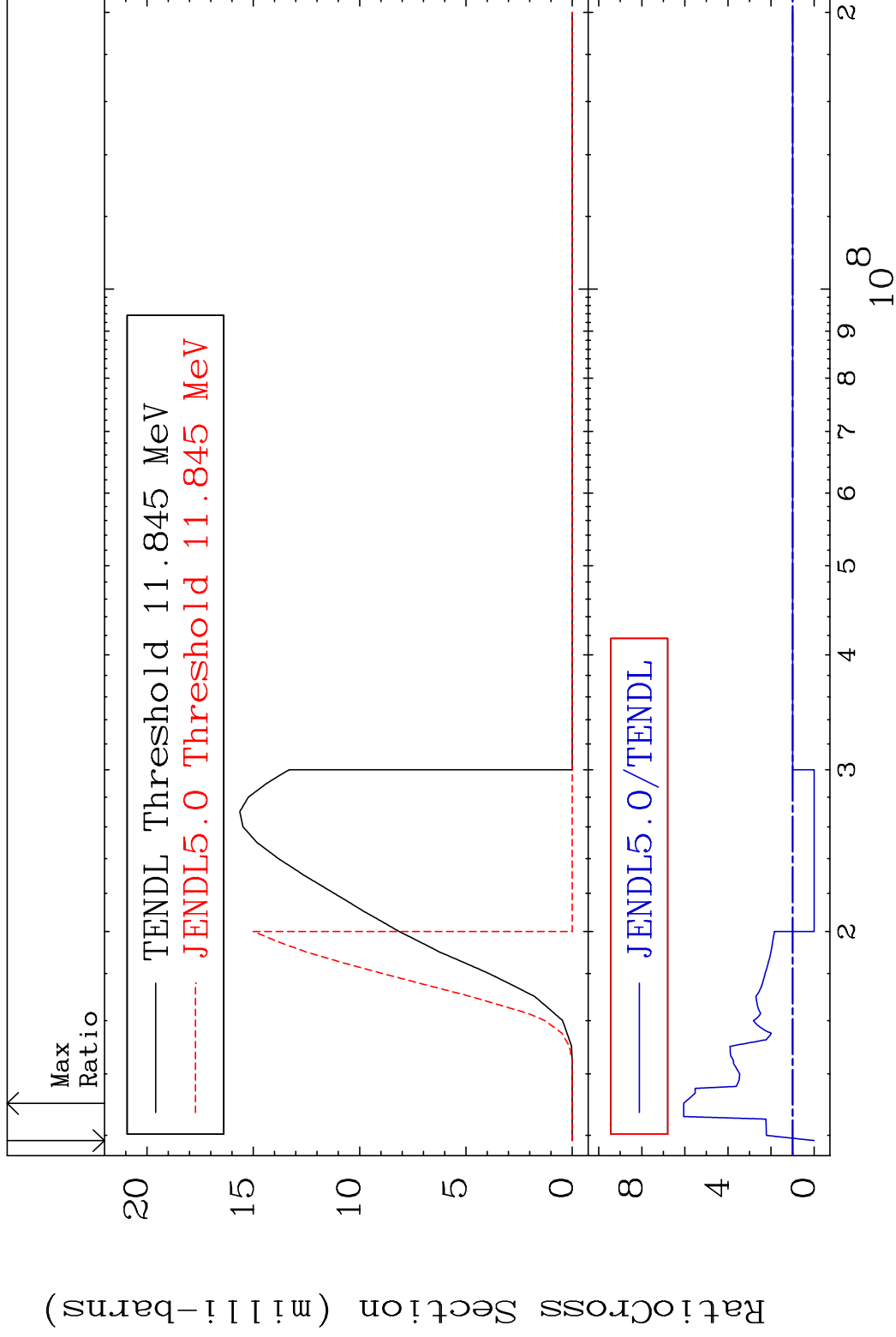
¹⁴Si-32

MAT 1437

(n, n') α

14-Si-32

Cross Section -100.0 To 505.7 %

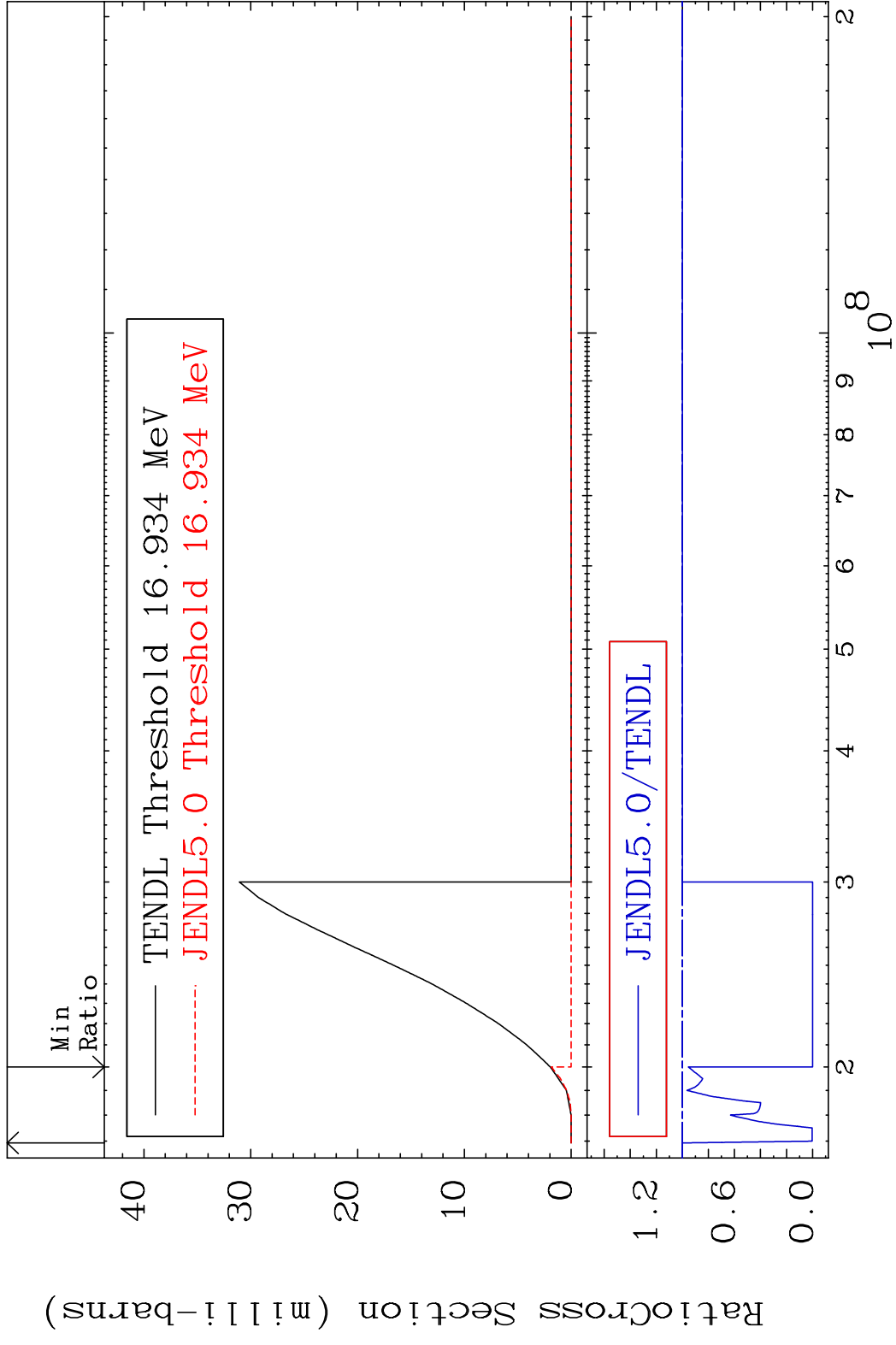


7

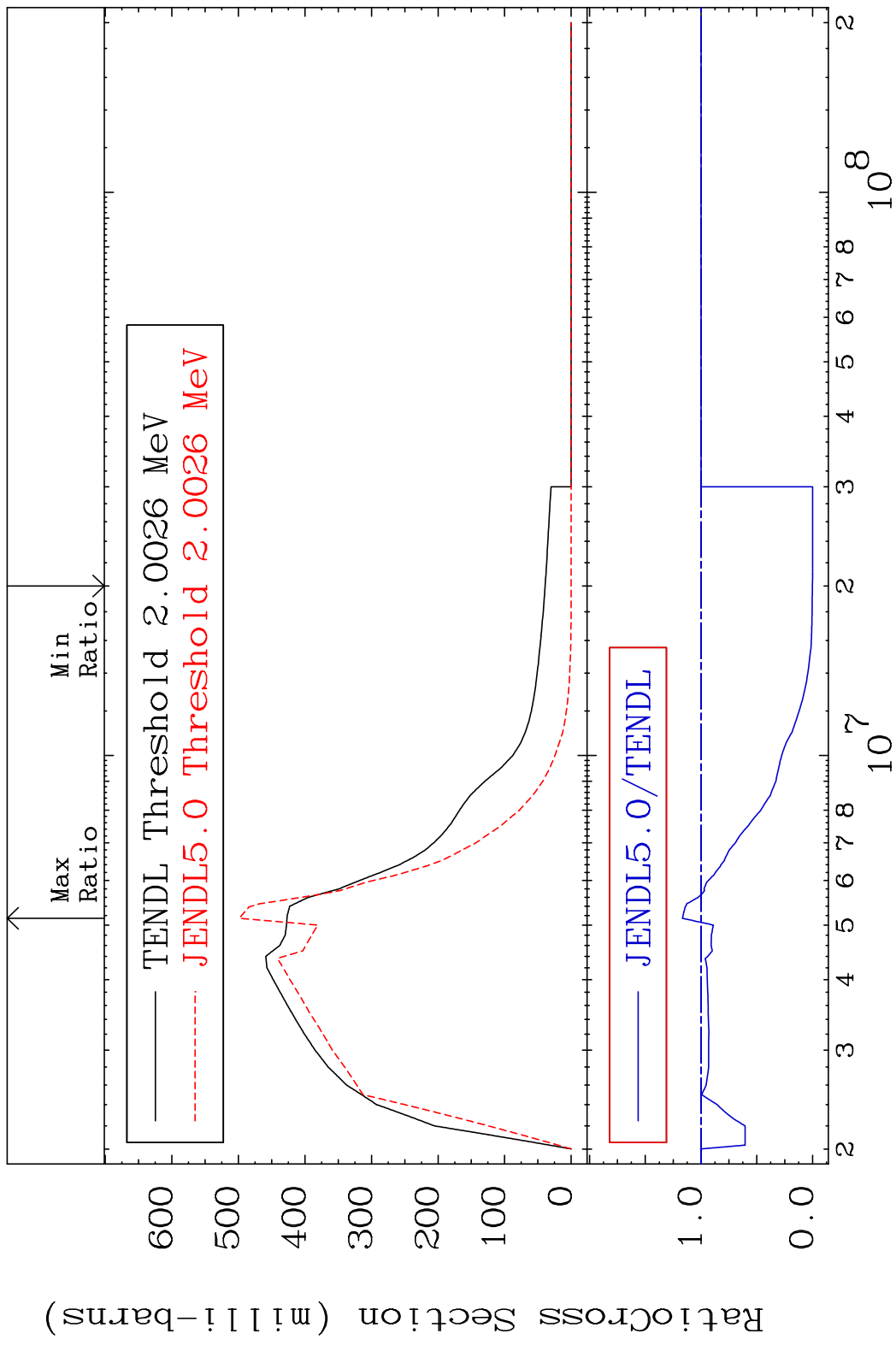
Incident Energy (eV)

14-Si-32

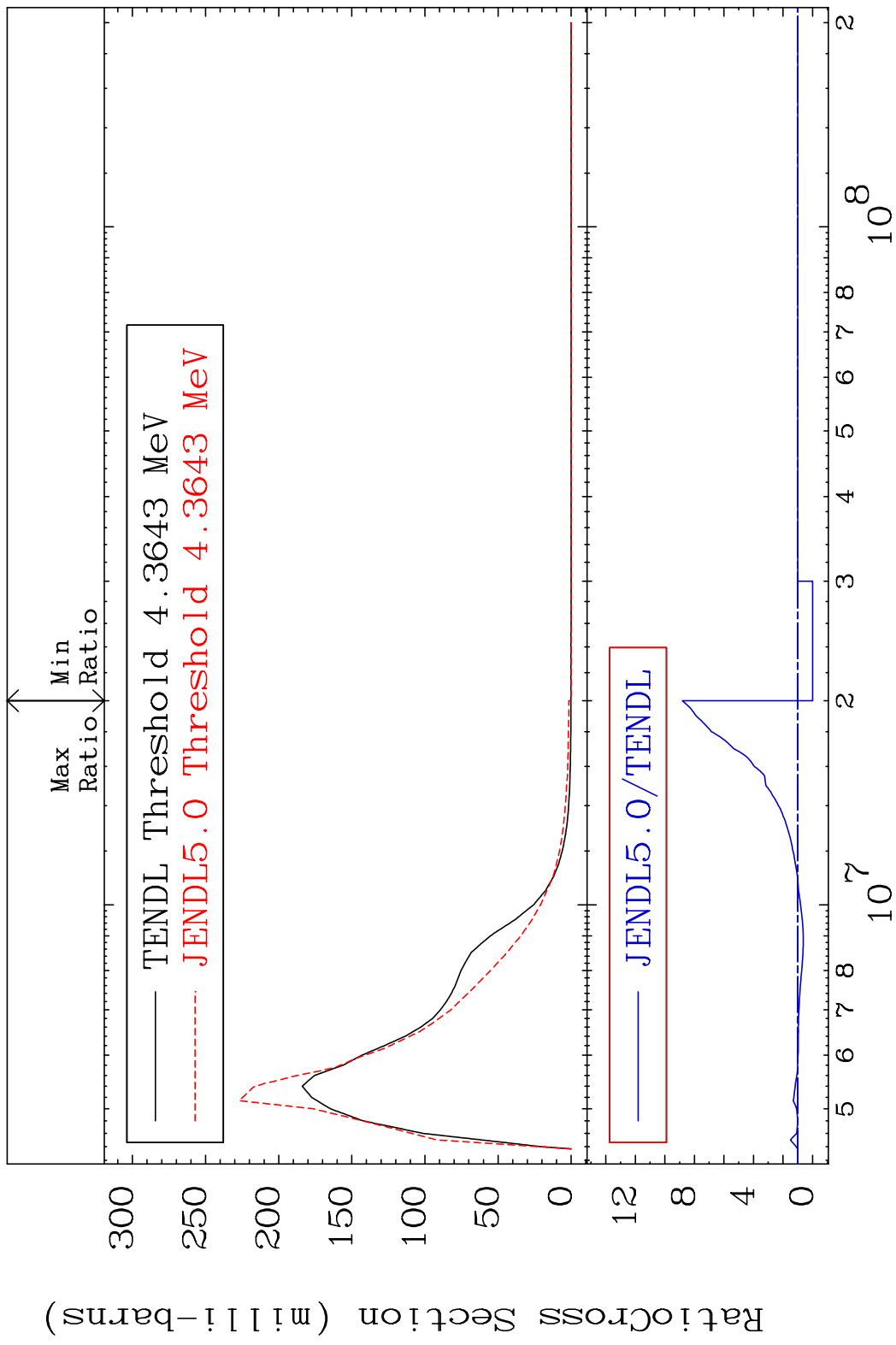
MAT 1437 (n, n') p 14-Si-32
 Cross Section -100.0 To 0.000 %



MAT 1437 MT= 51 (n, n') Level 14-Si-32
 Cross Section -100.0 To 16.79 %

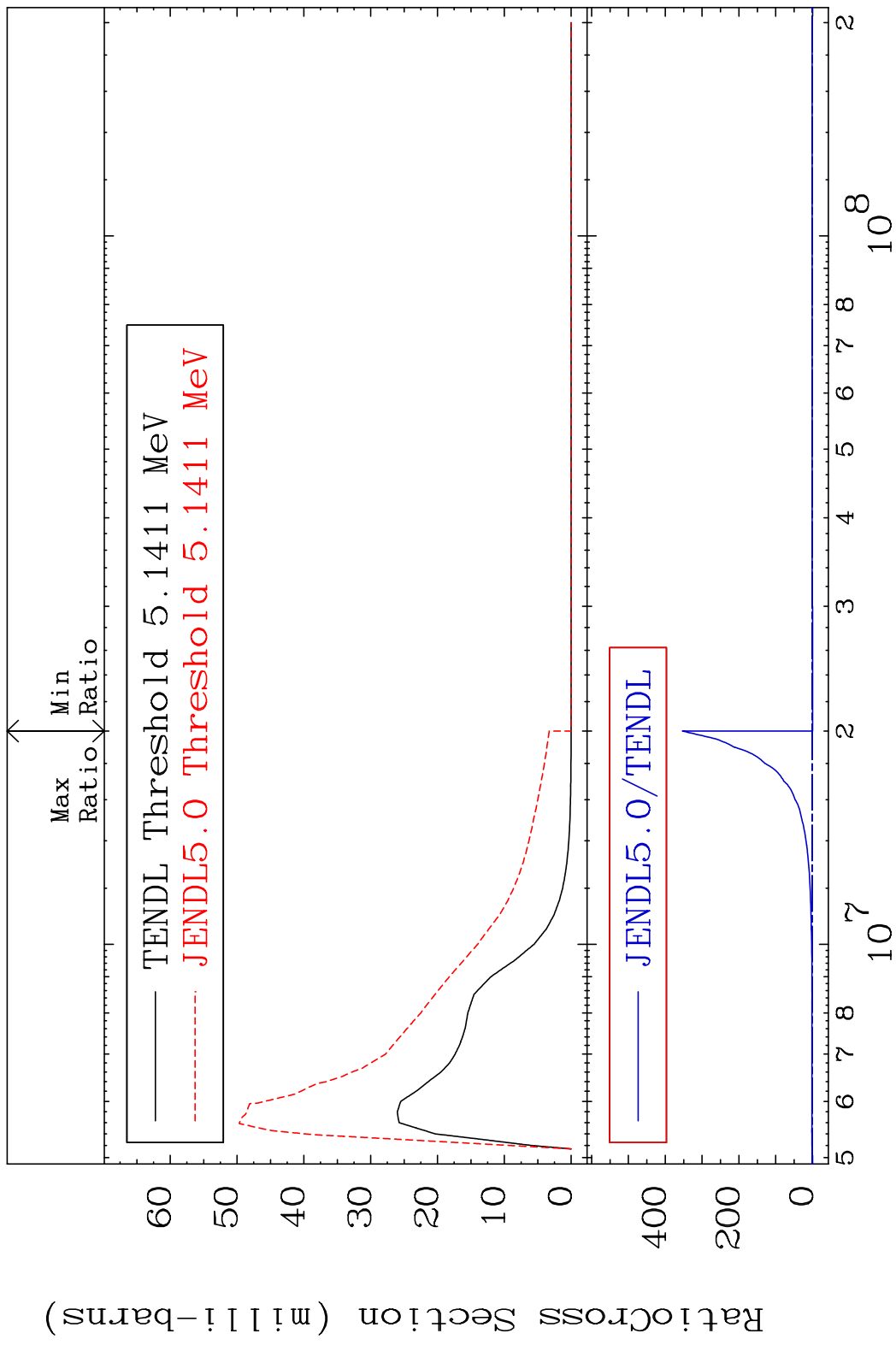


MAT 1437 MT= 52 (n, n') Level 14-Si-32
 Cross Section -100.0 To 781.6 %

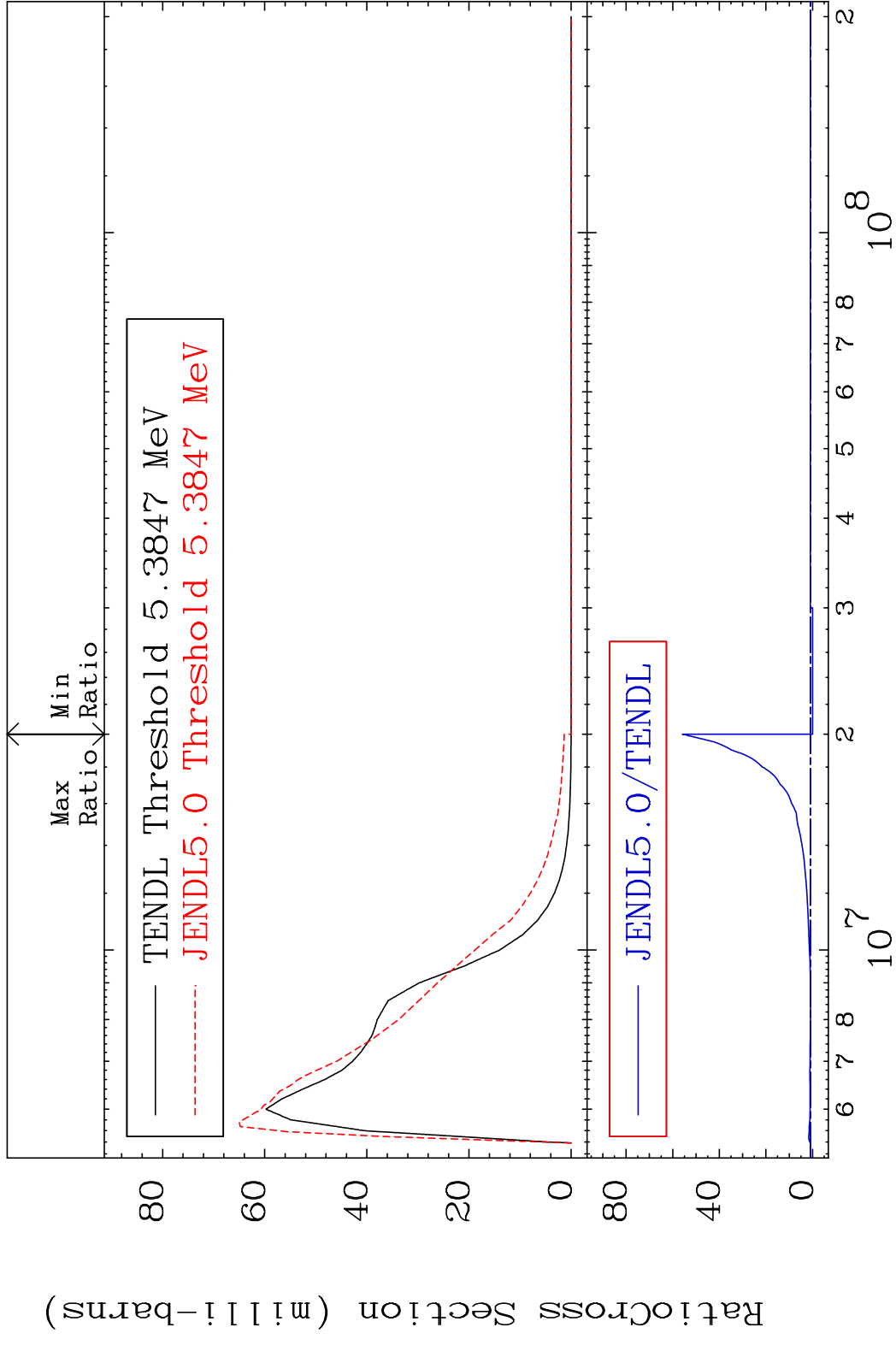


10 12 8 4 0 300 250 200 150 100 50 0 5 6 7 8 10⁷ 2 3 4 5 6 7 8 10⁸ 2

MAT 1437 MT= 53 (n,n') Level 14-Si-32
 Cross Section -100.0 To 9999. %

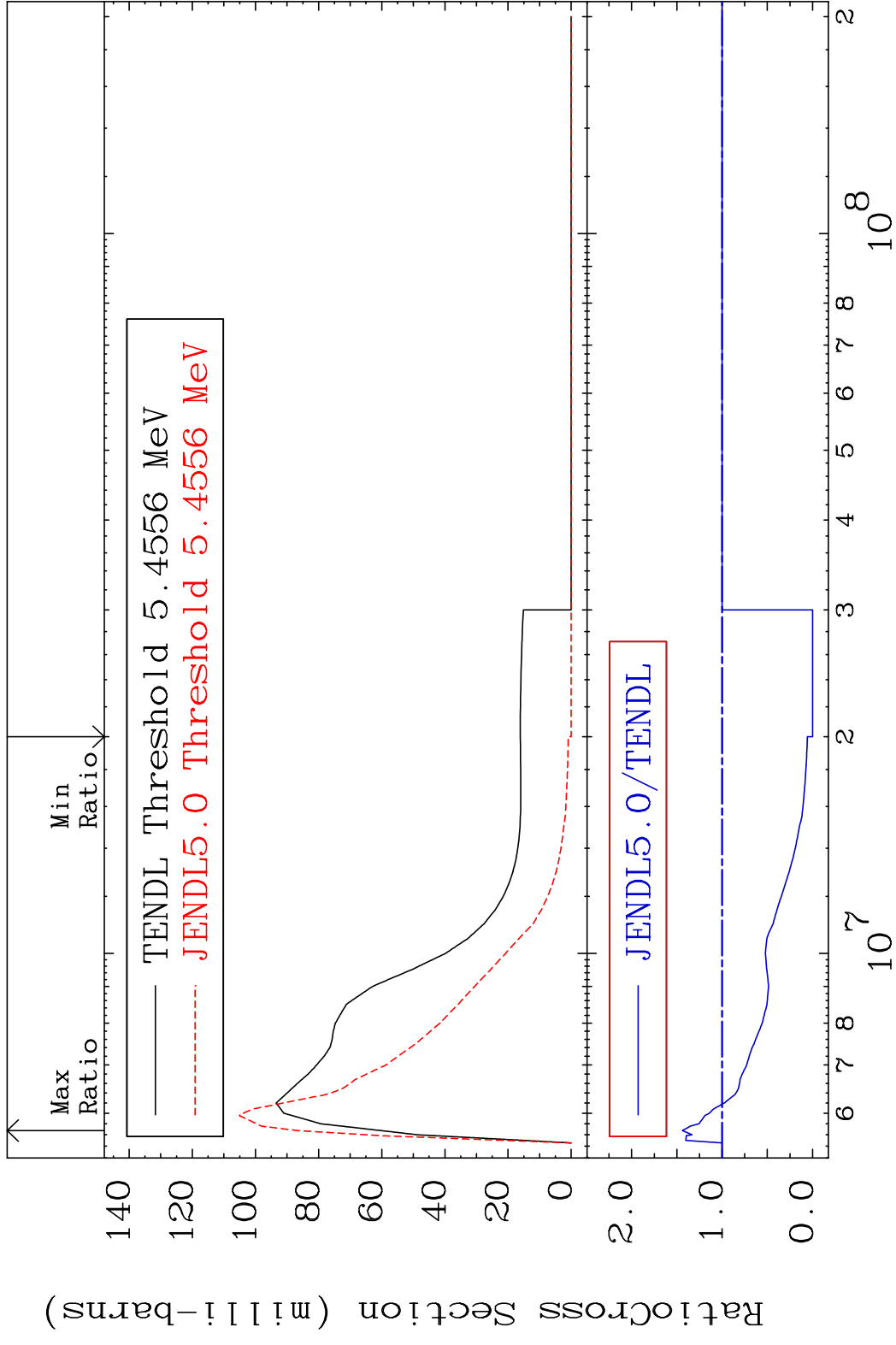


MAT 1437 MT= 54 (n,n') Level 14-Si-32
 Cross Section -100.0 To 5487. %

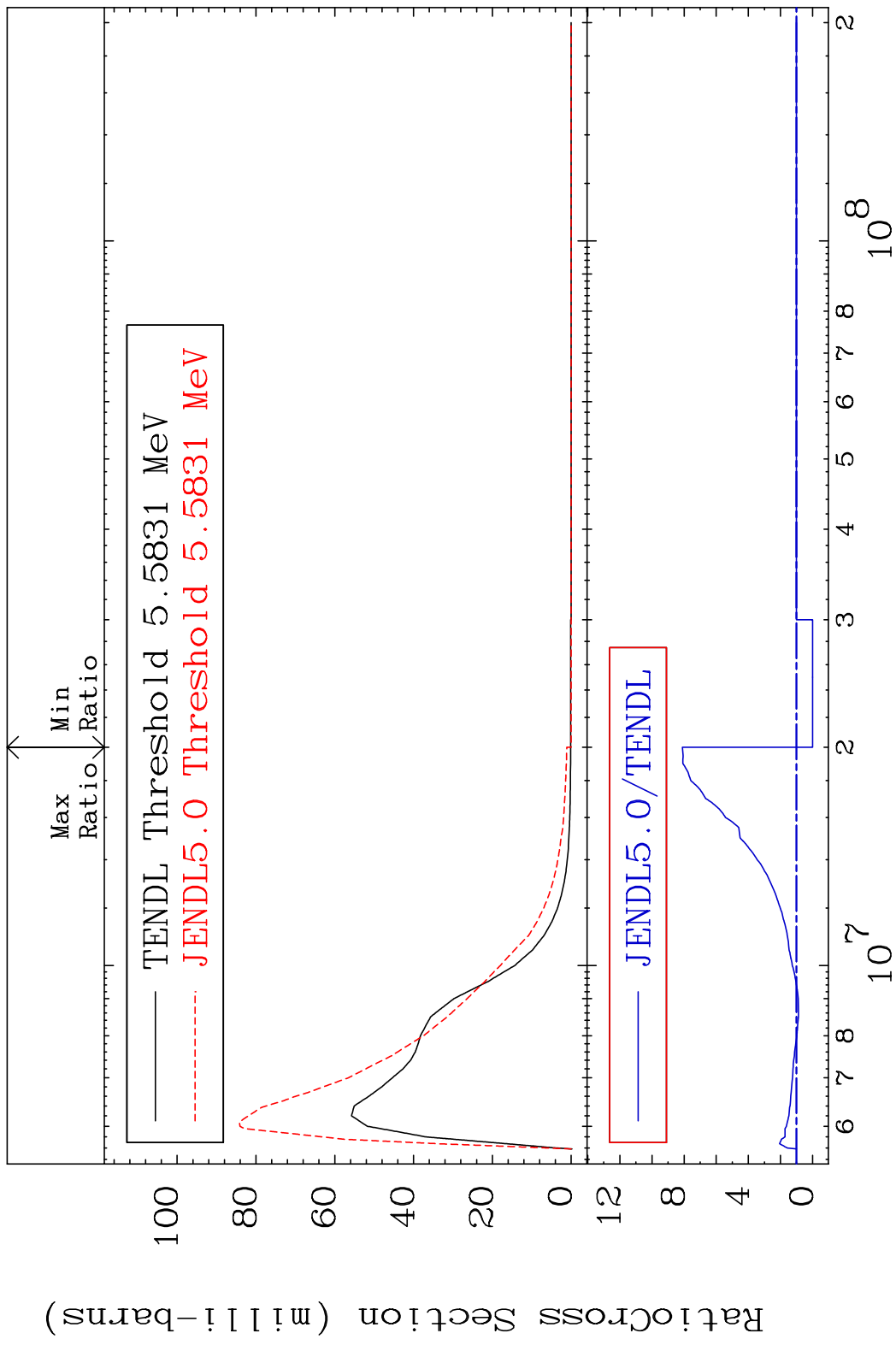


12 14-Si-32

MAT 1437 MT= 55 (n,n') Level 14-Si-32
 Cross Section -100.0 To 43.93 %

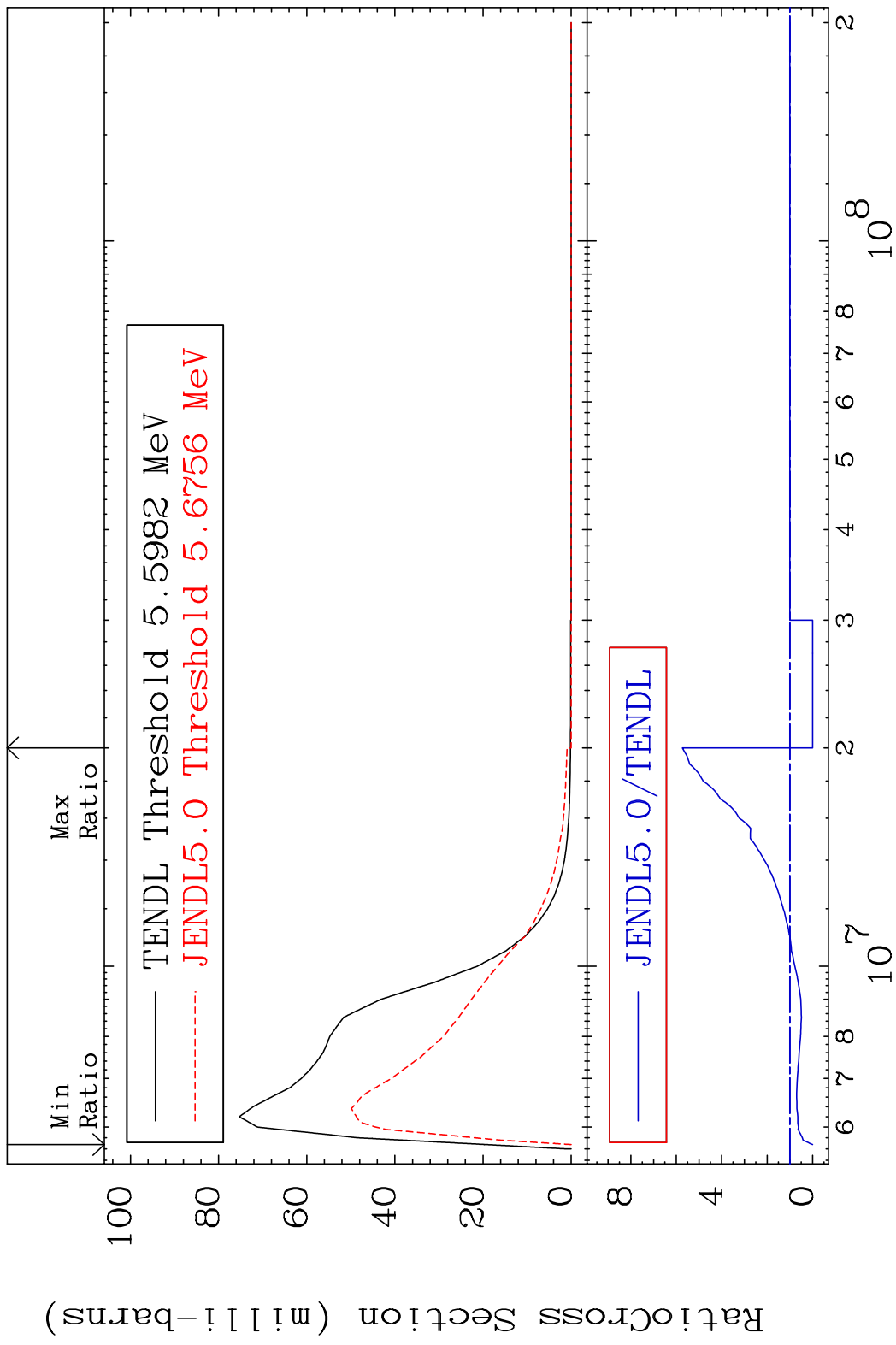


MAT 1437 MT= 56 (n,n') Level 14-Si-32
 Cross Section -100.0 To 710.9 %



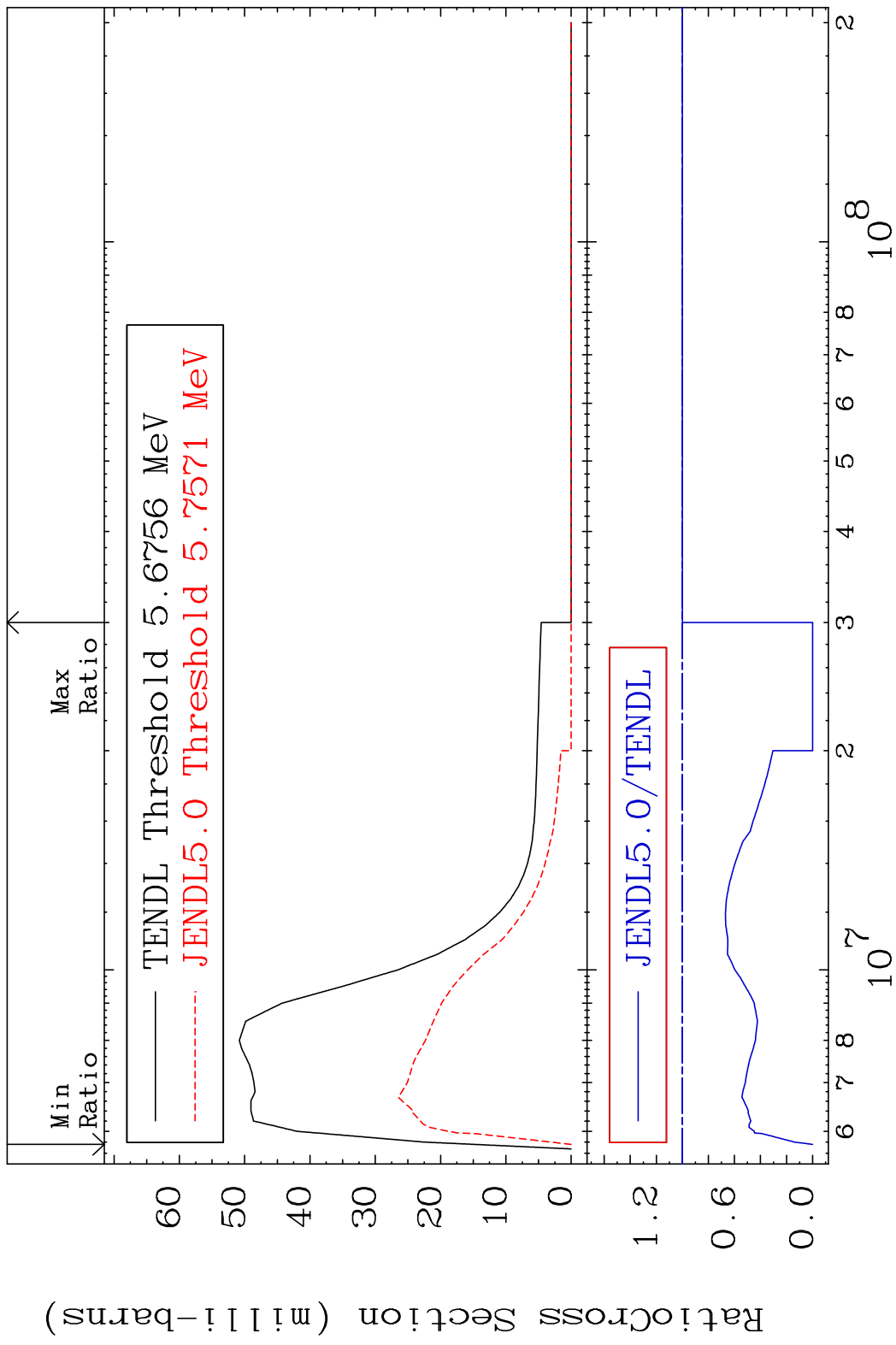
14 14-Si-32

MAT 1437 MT= 57 (n, n') Level 14-Si-32
 Cross Section -100.0 To 473.2 %



15 14-Si-32

MAT 1437 MT= 58 (n, n') Level 14-Si-32
 Cross Section -100.0 To 0.000 %

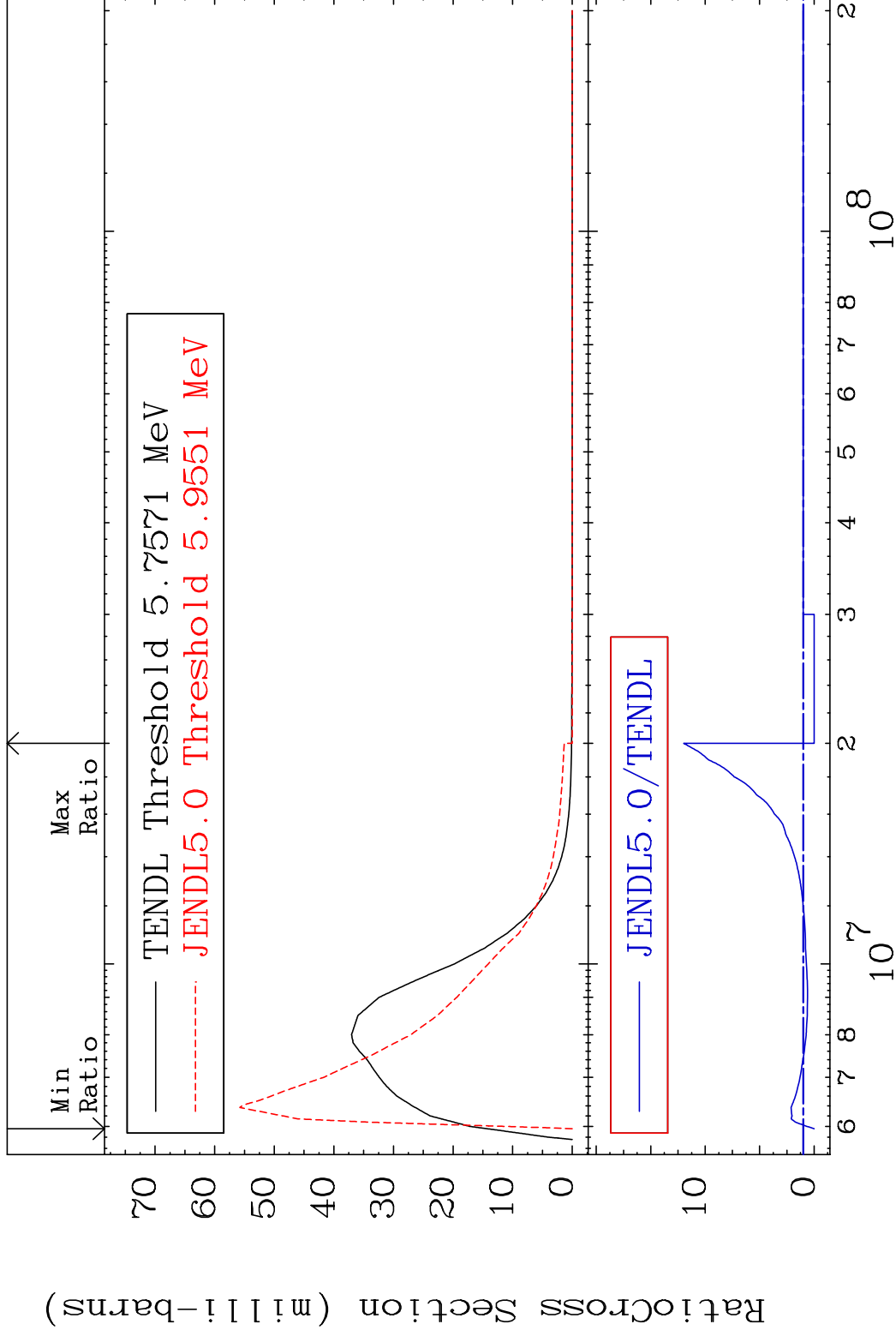


MAT 1437

MT= 59 (n,n') Level

14-Si-32

Cross Section -100.0 To 1098. %

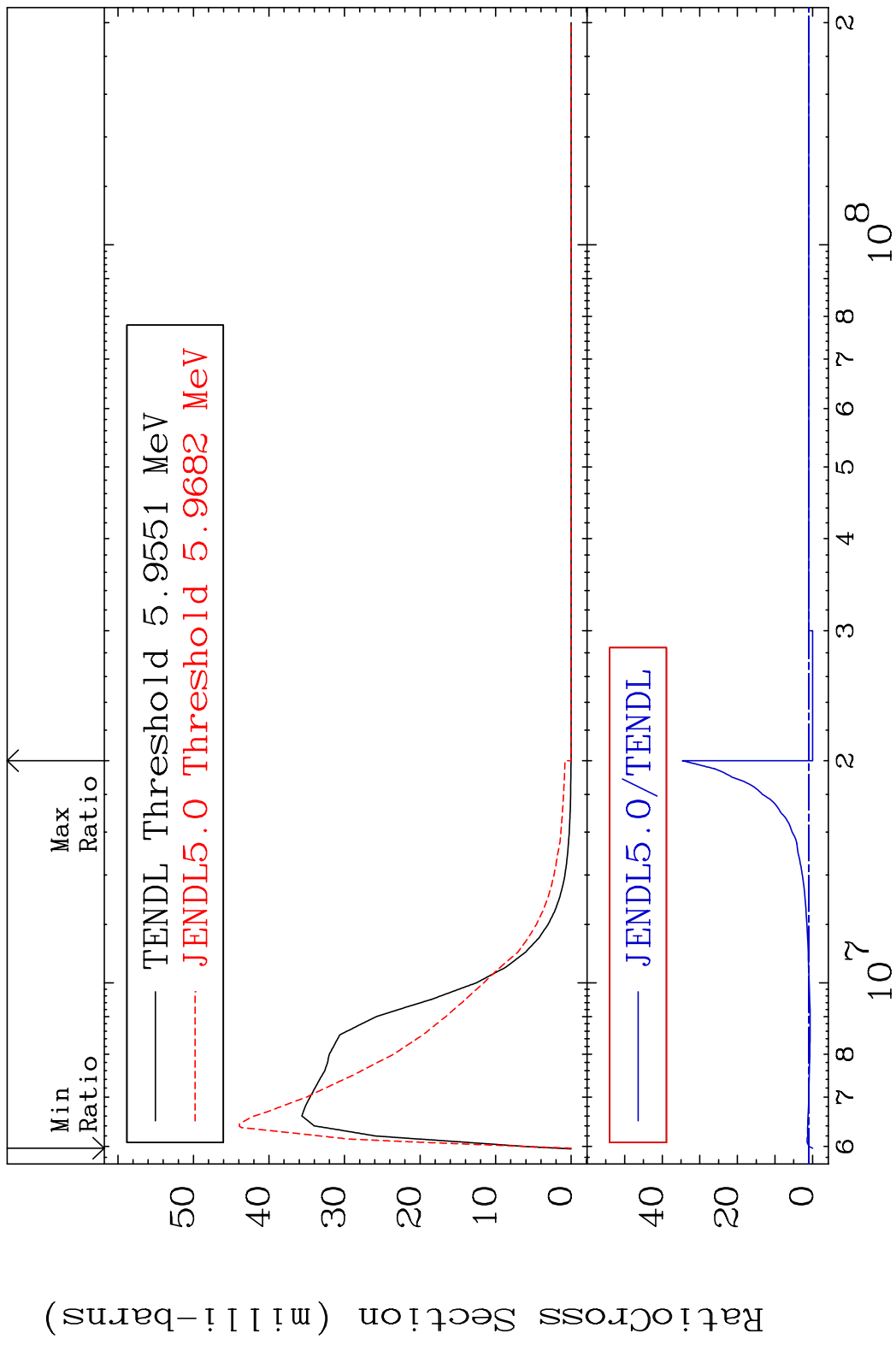


17

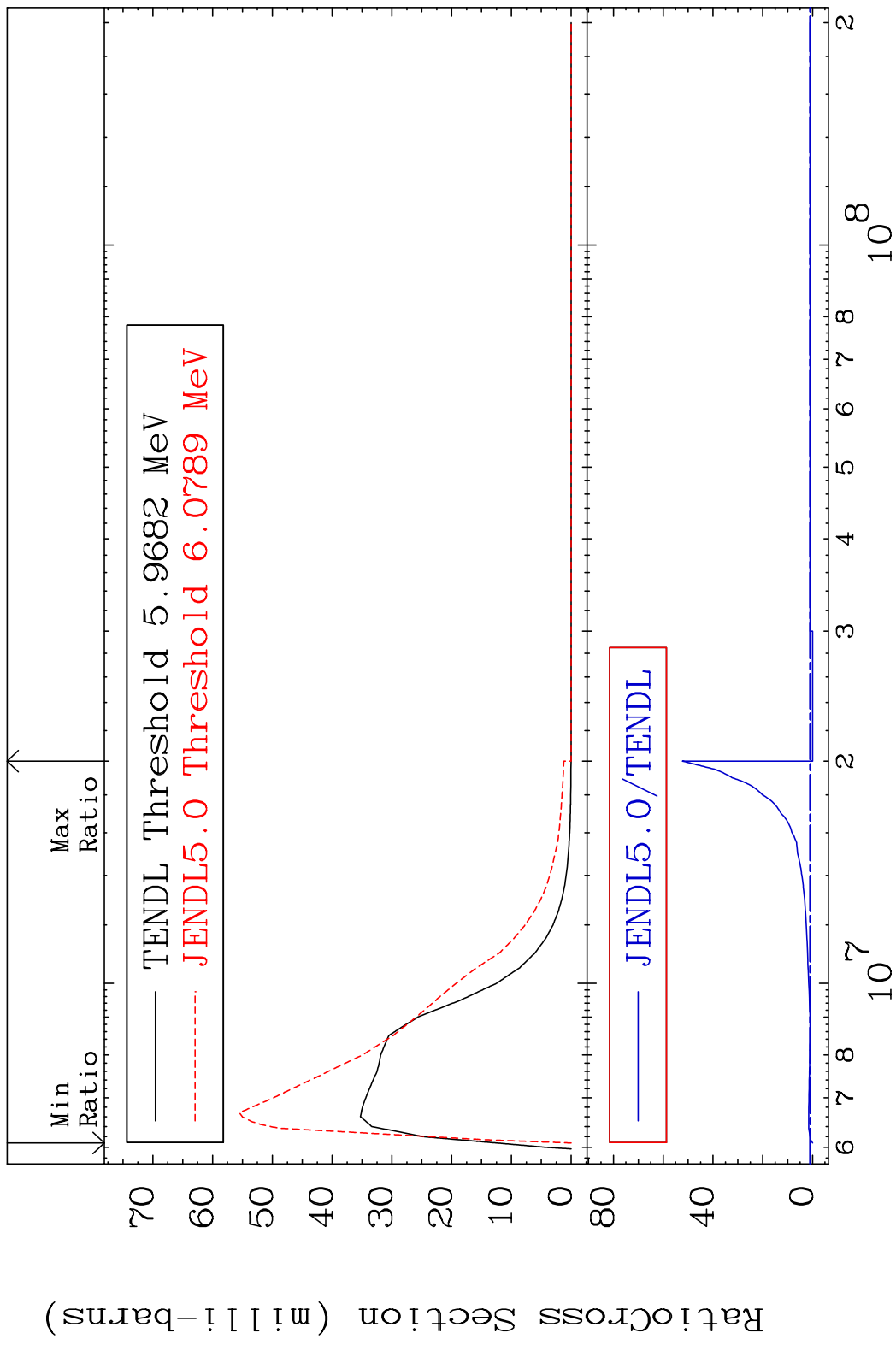
Incident Energy (eV)

14-Si-32

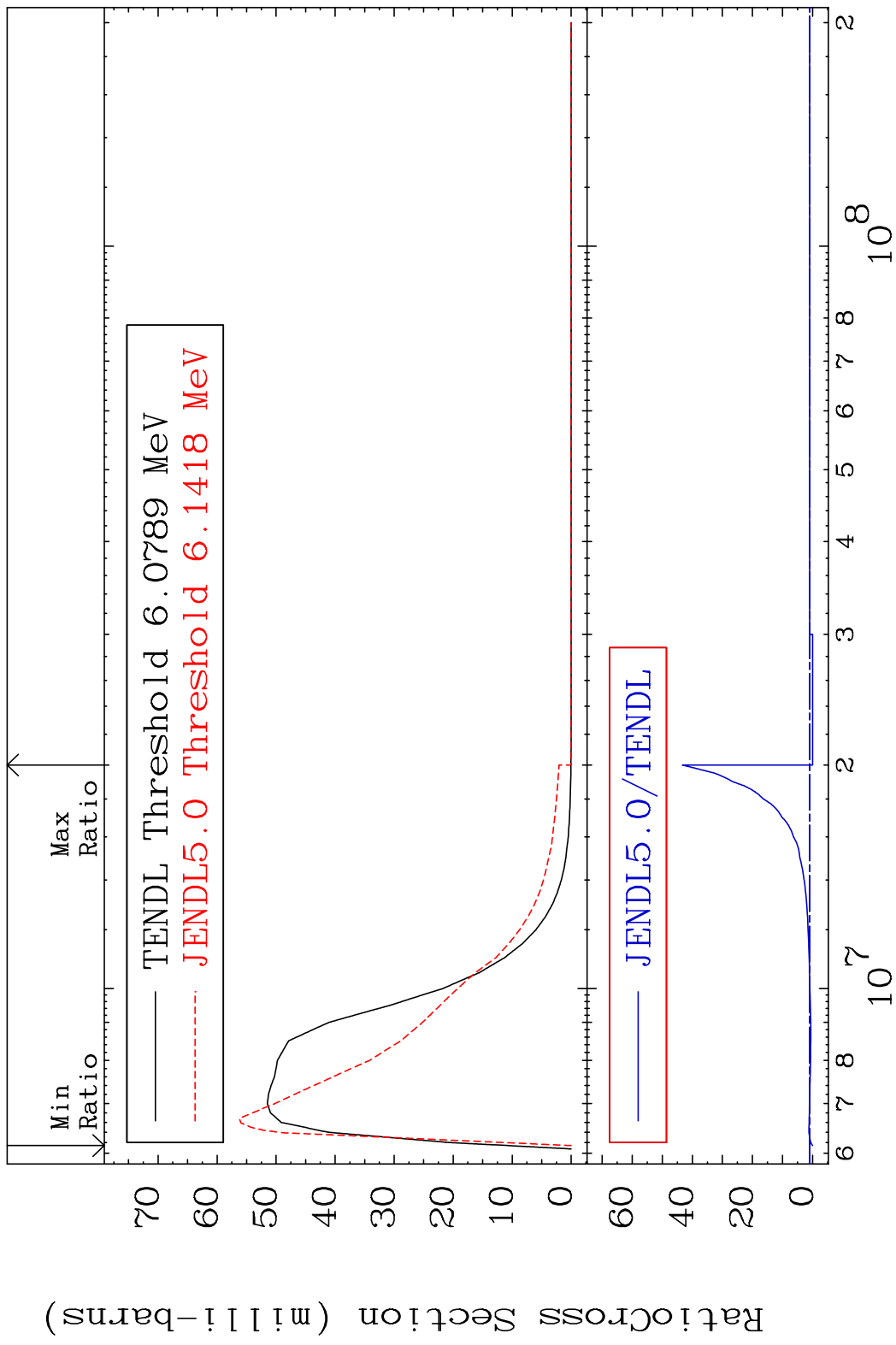
MAT 1437 MT= 60 (n,n') Level 14-Si-32
 Cross Section -100.0 To 3365. %



MAT 1437 MT= 61 (n,n') Level 14-Si-32
 Cross Section -100.0 To 5131. %

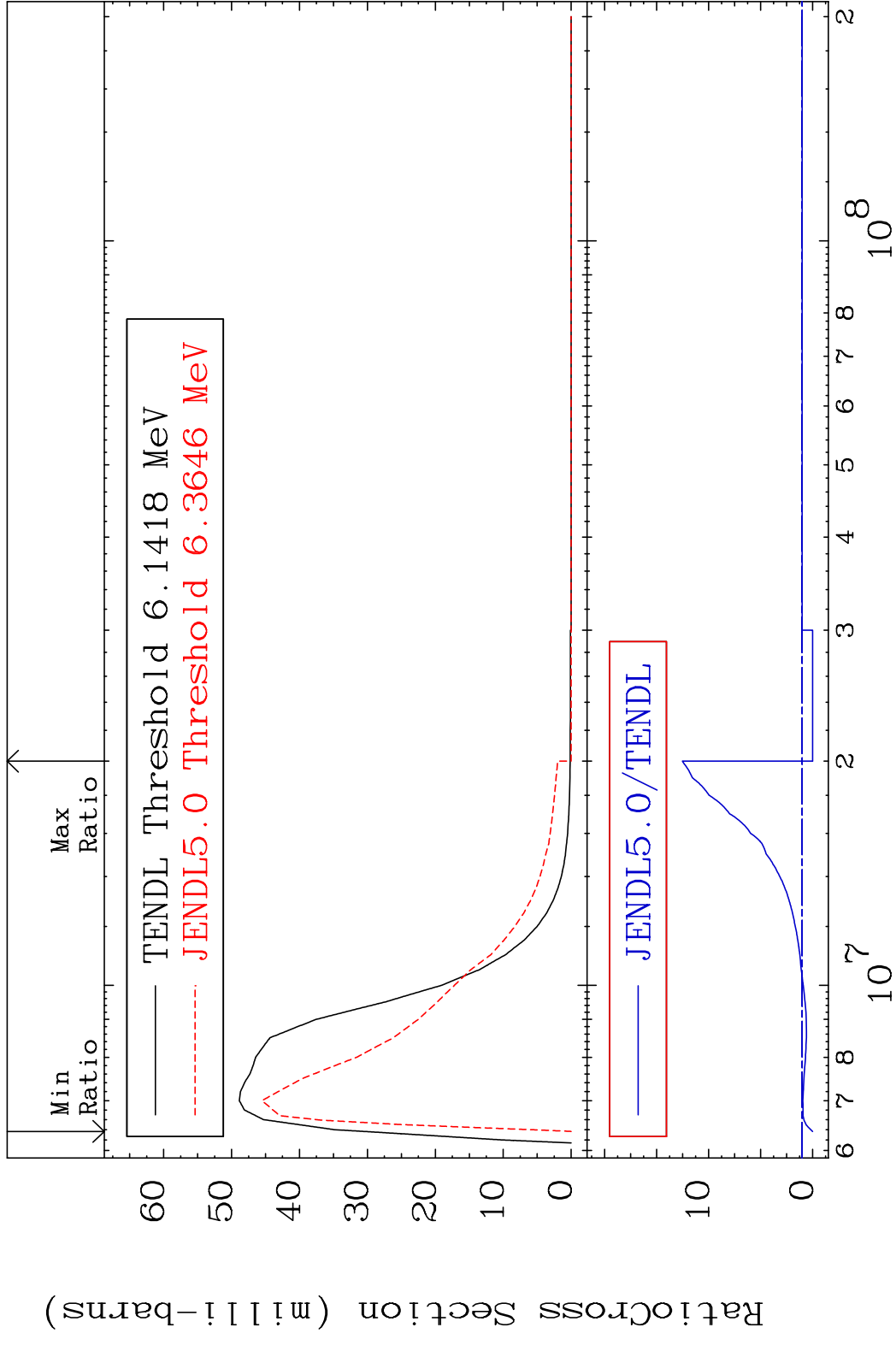


MAT 1437 MT= 62 (n,n') Level 14-Si-32
 Cross Section -100.0 To 4233. %

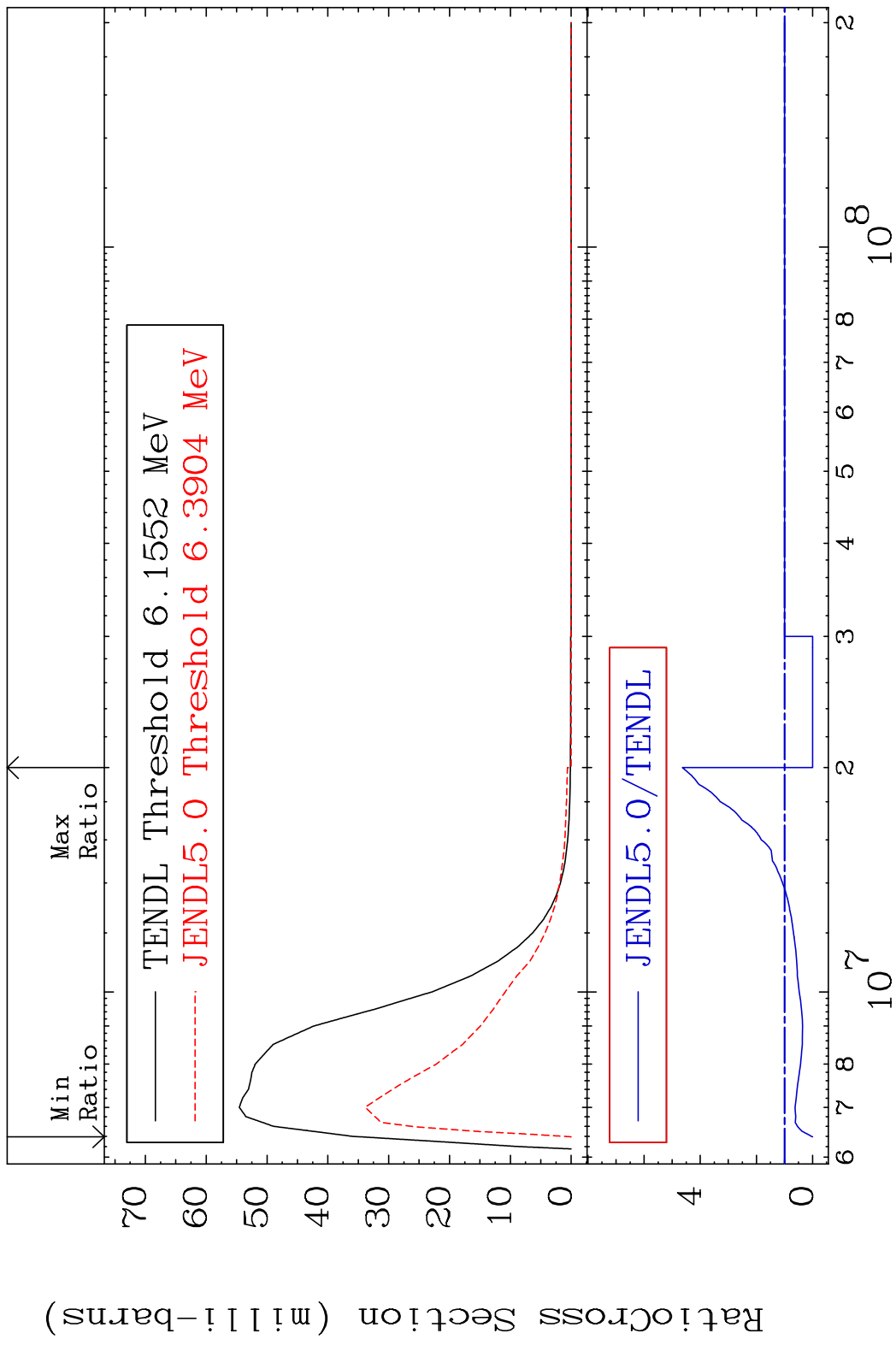


20 Incident Energy (eV) 14-Si-32

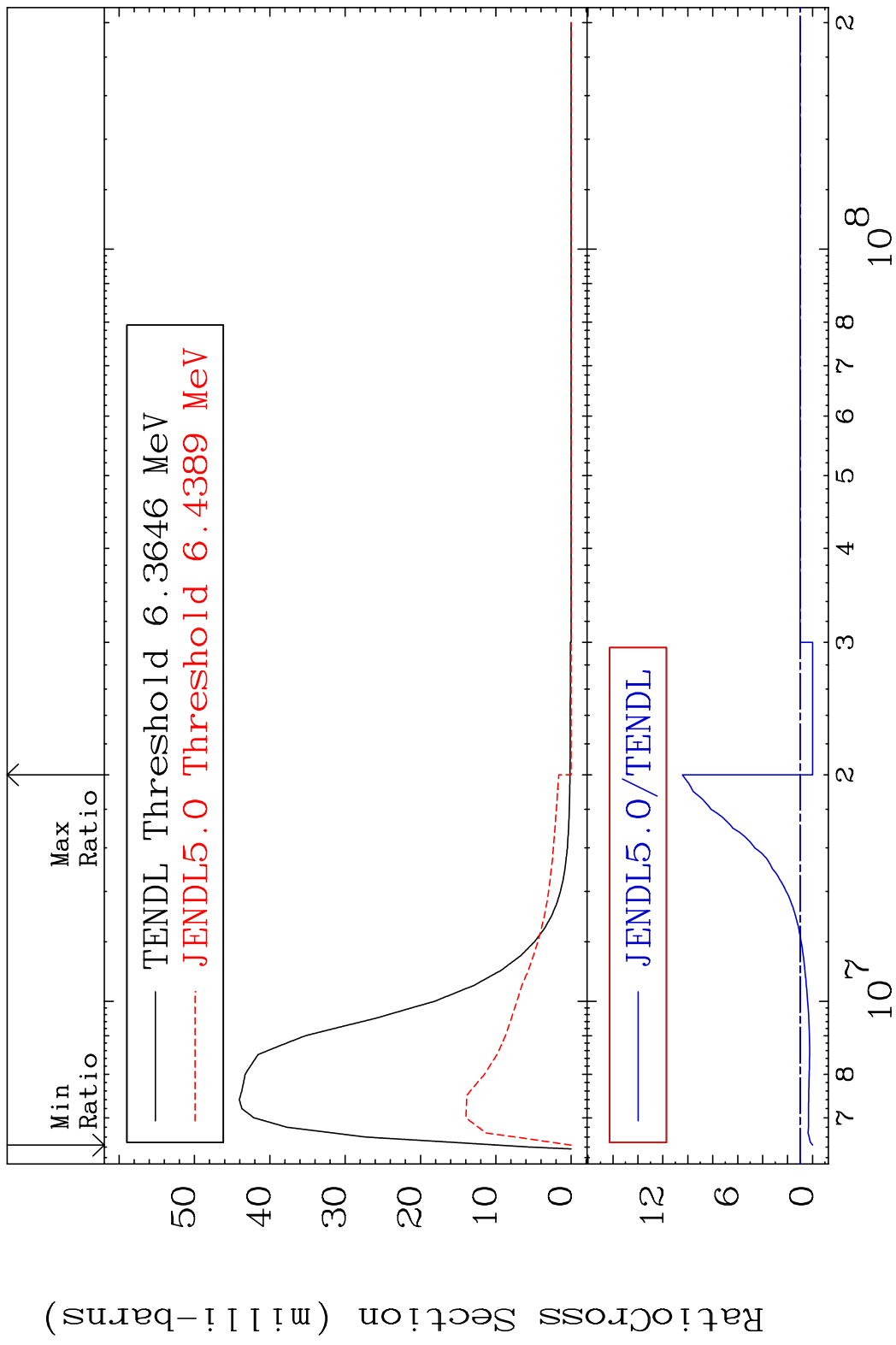
MAT 1437 MT= 63 (n, n') Level 14-Si-32
 Cross Section -100.0 To 1152. %



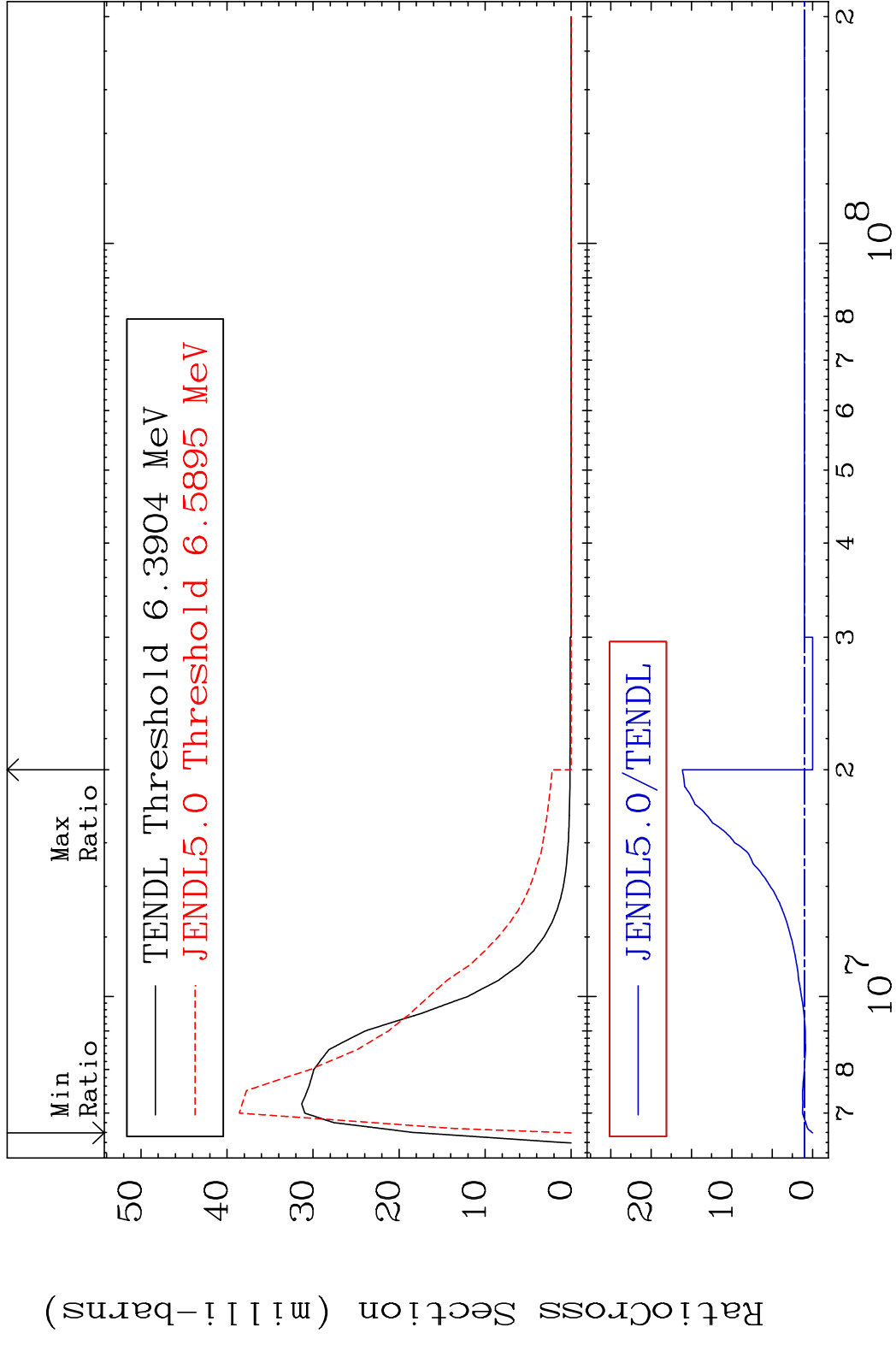
MAT 1437 MT= 64 (n,n') Level 14-Si-32
 Cross Section -100.0 To 363.8 %



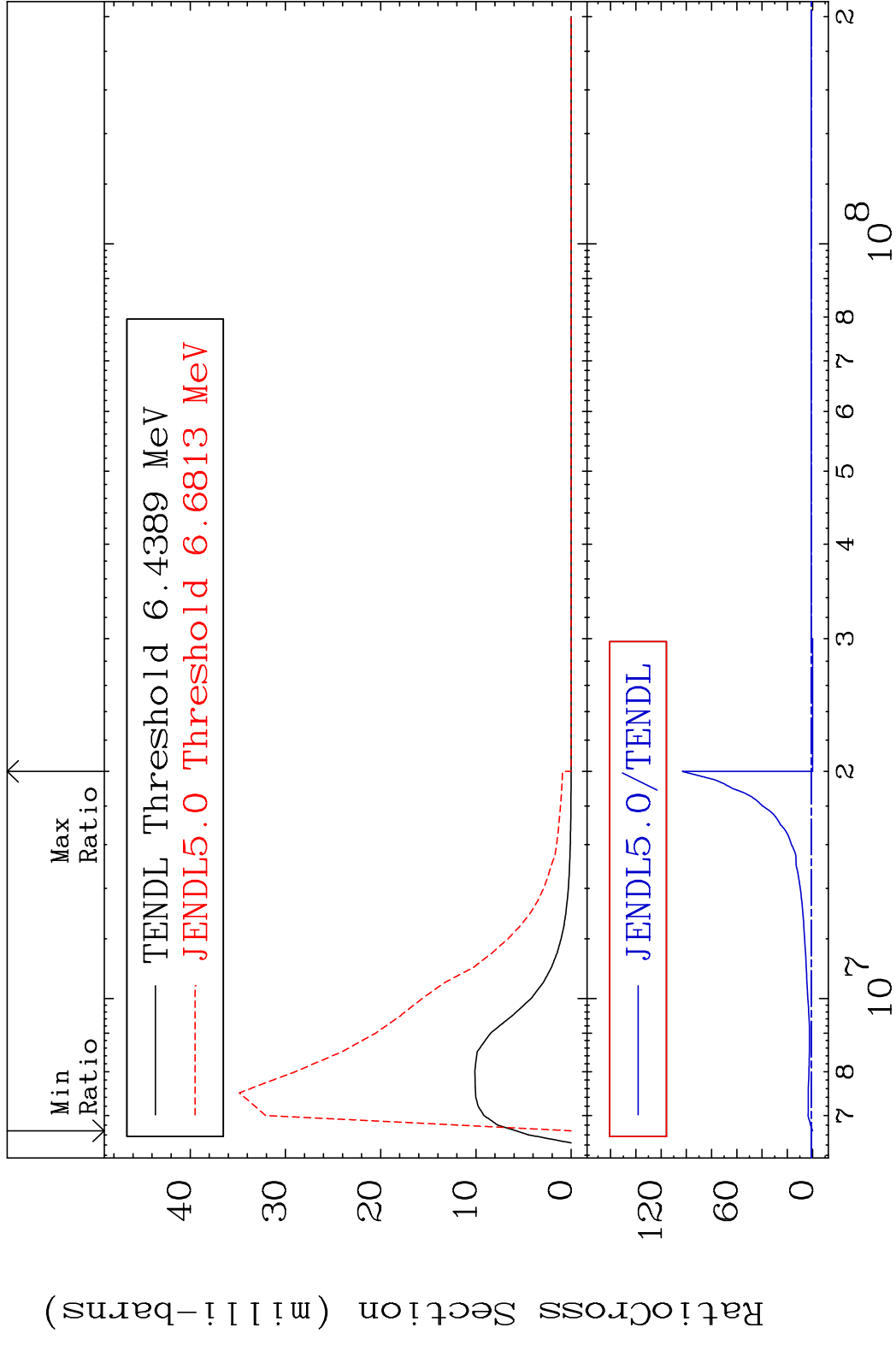
MAT 1437 MT= 65 (n,n') Level 14-Si-32
 Cross Section -100.0 To 943.8 %



MAT 1437 MT= 66 (n,n') Level 14-Si-32
 Cross Section -100.0 To 1513. %



MAT 1437 MT= 67 (n,n') Level 14-Si-32
 Cross Section -100.0 To 9999. %

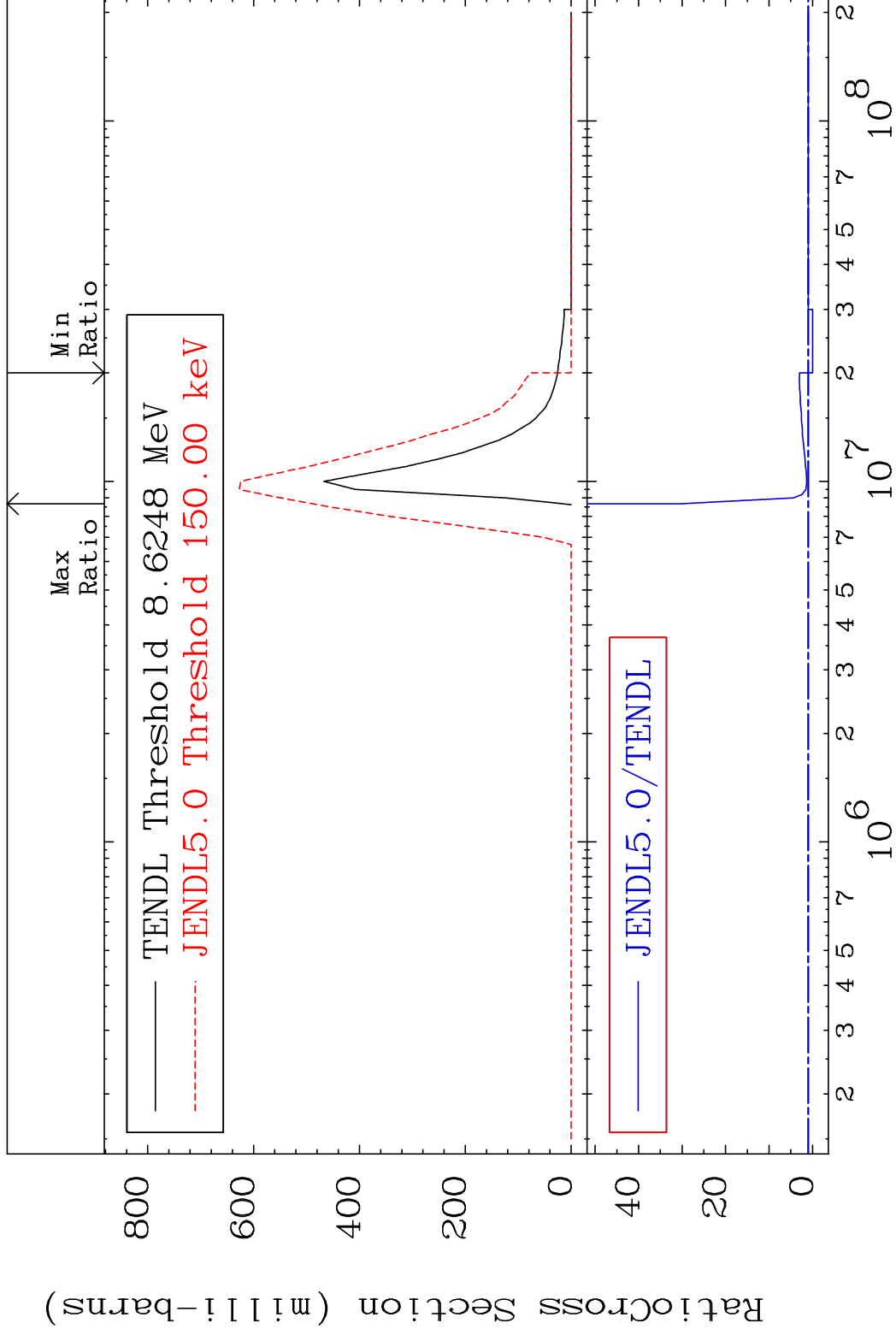


MAT 1437

(n,n') Continuum

¹⁴Si-32

Cross Section -100.0 To 2894. %



26

Incident Energy (eV)

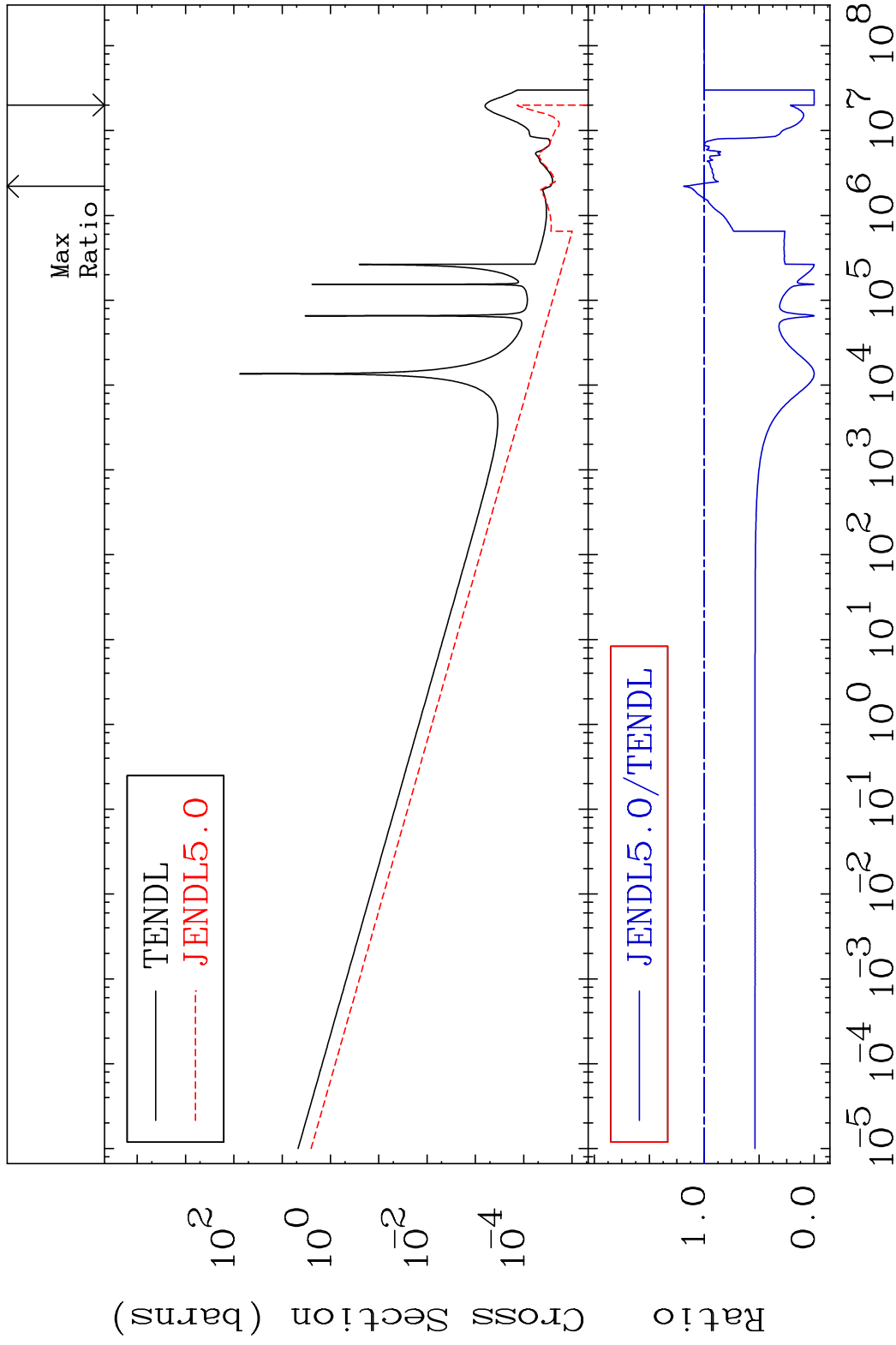
¹⁴Si-32

MAT 1437

(n, γ)

14-Si-32

Cross Section -100.0 To 18.75 %



27

Incident Energy (eV)

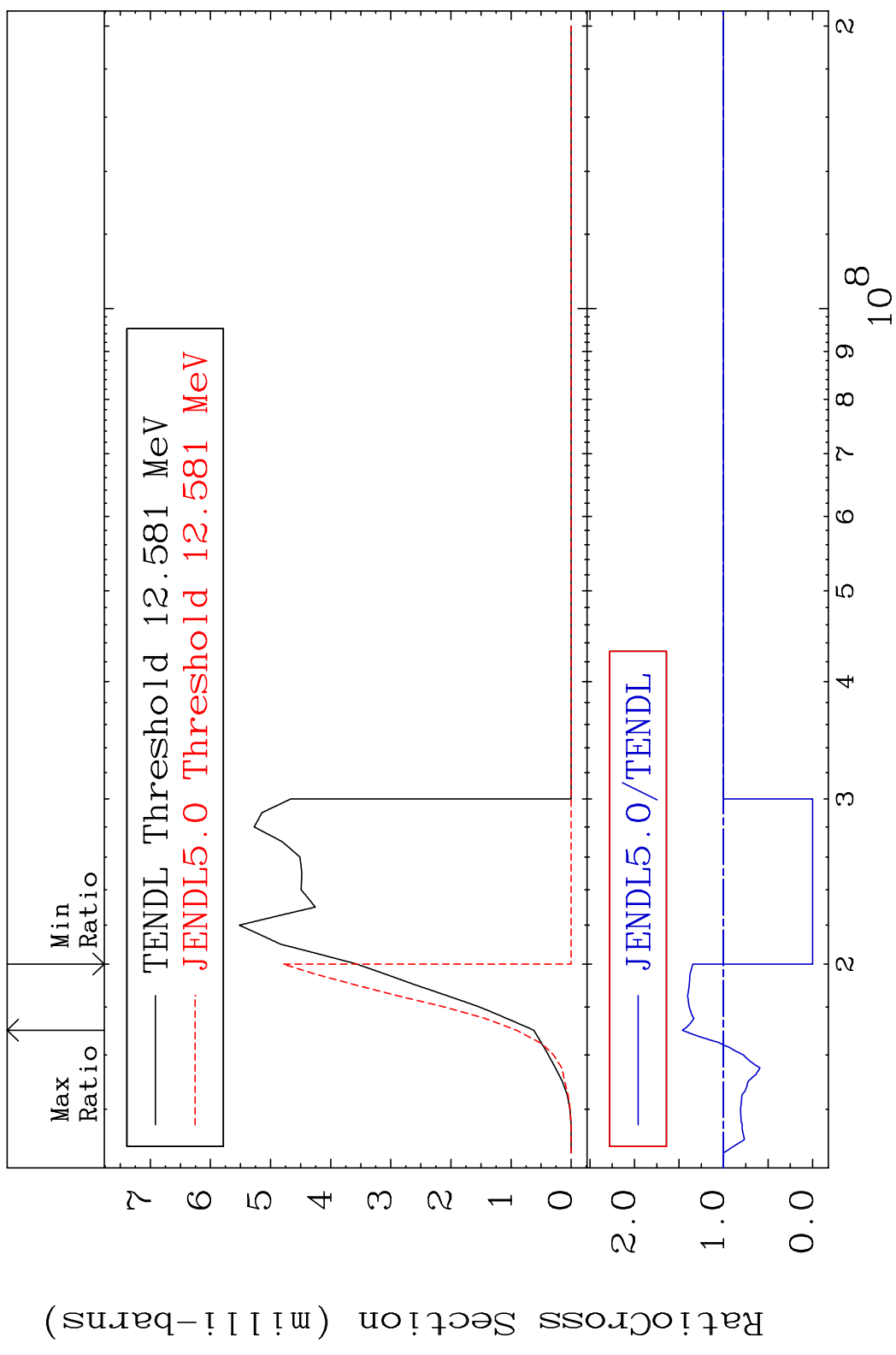
14-Si-32

MAT 1437

(n,p)

14-Si-32

Cross Section -100.0 To 46.25 %

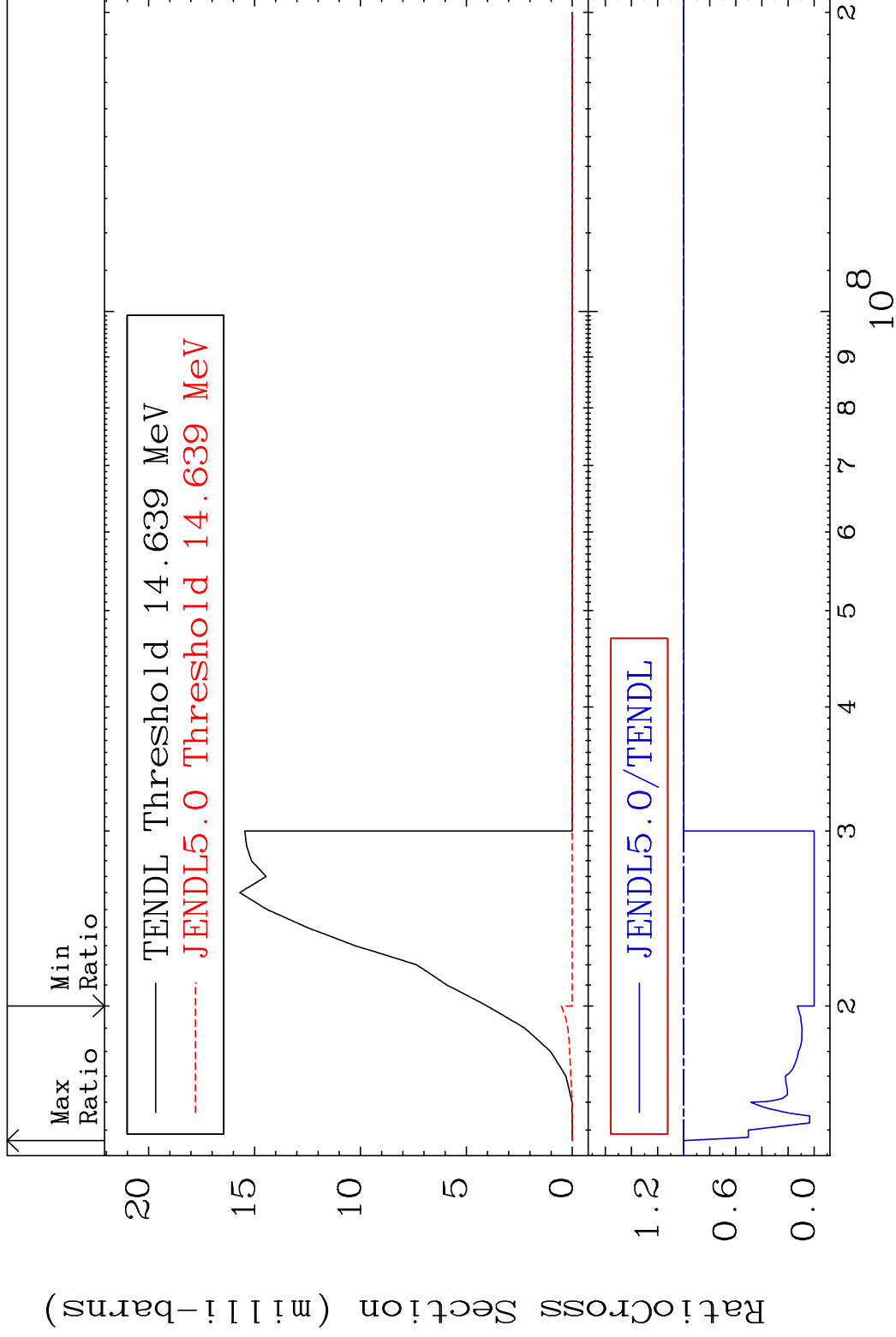


MAT 1437

(n,d)

14-Si-32

Cross Section -100.0 To 0.000 %



29

Incident Energy (eV)

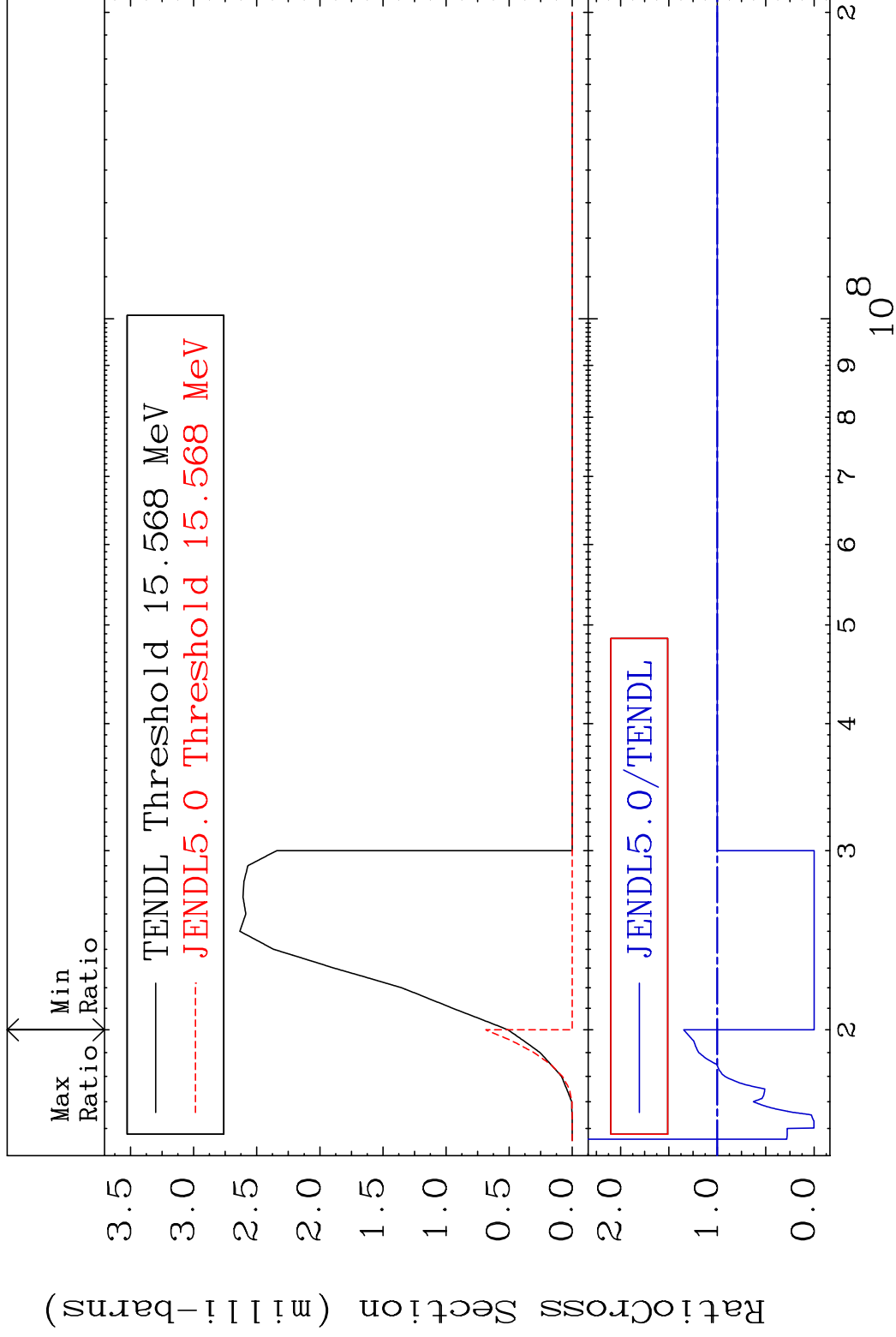
14-Si-32

MAT 1437

(n, t)

14-Si-32

Cross Section -100.0 To 34.78 %



30

Incident Energy (eV)

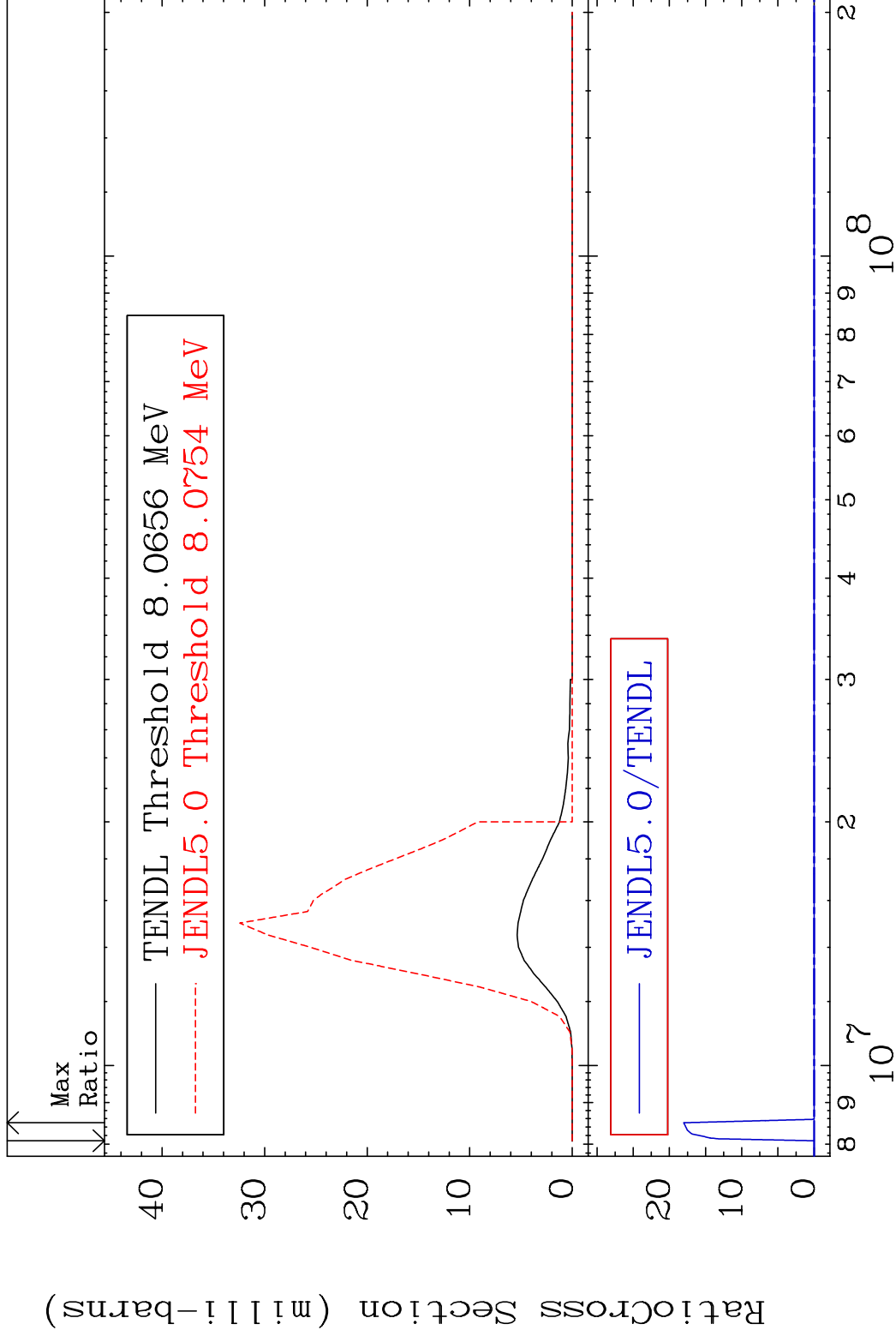
14-Si-32

MAT 1437

(n, α)

14-Si-32

Cross Section -100.0 To 9999. %



31

Incident Energy (eV)

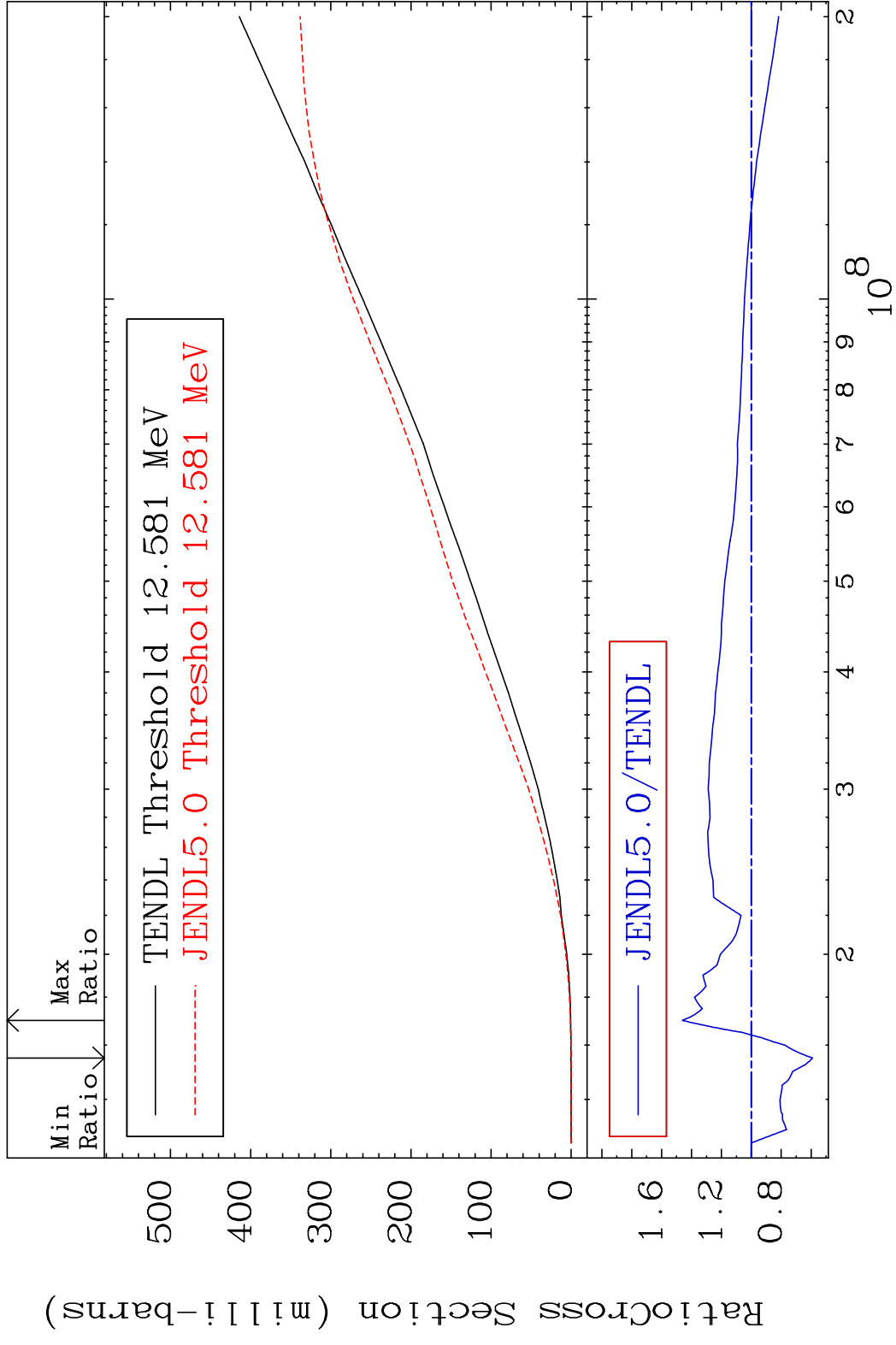
14-Si-32

MAT 1437

Hydrogen Production

14-Si-32

Cross Section -40.94 To 46.12 %

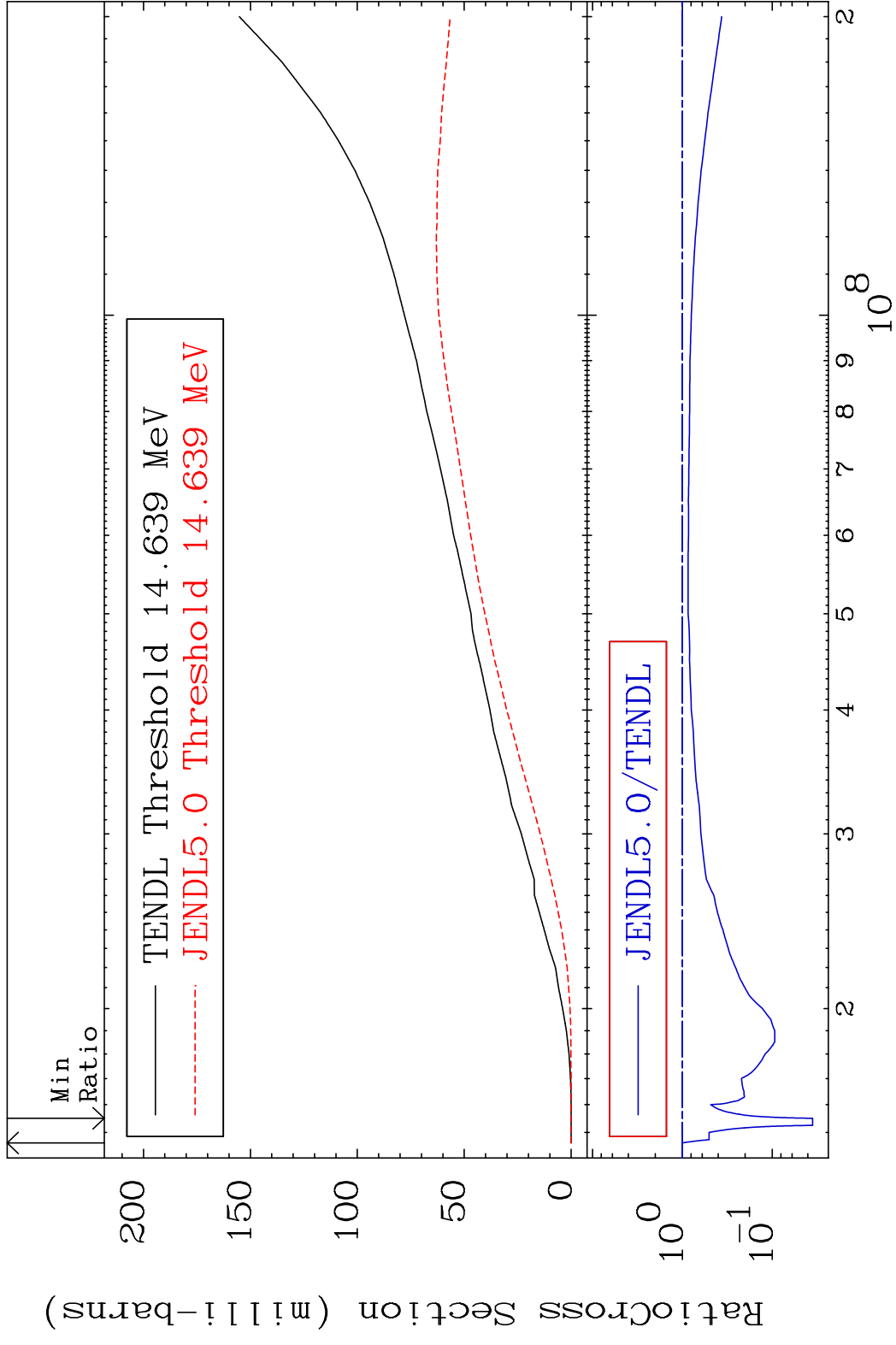


MAT 1437

Deuterium Production

14-Si-32

Cross Section -96.45 To 0.000 %



33

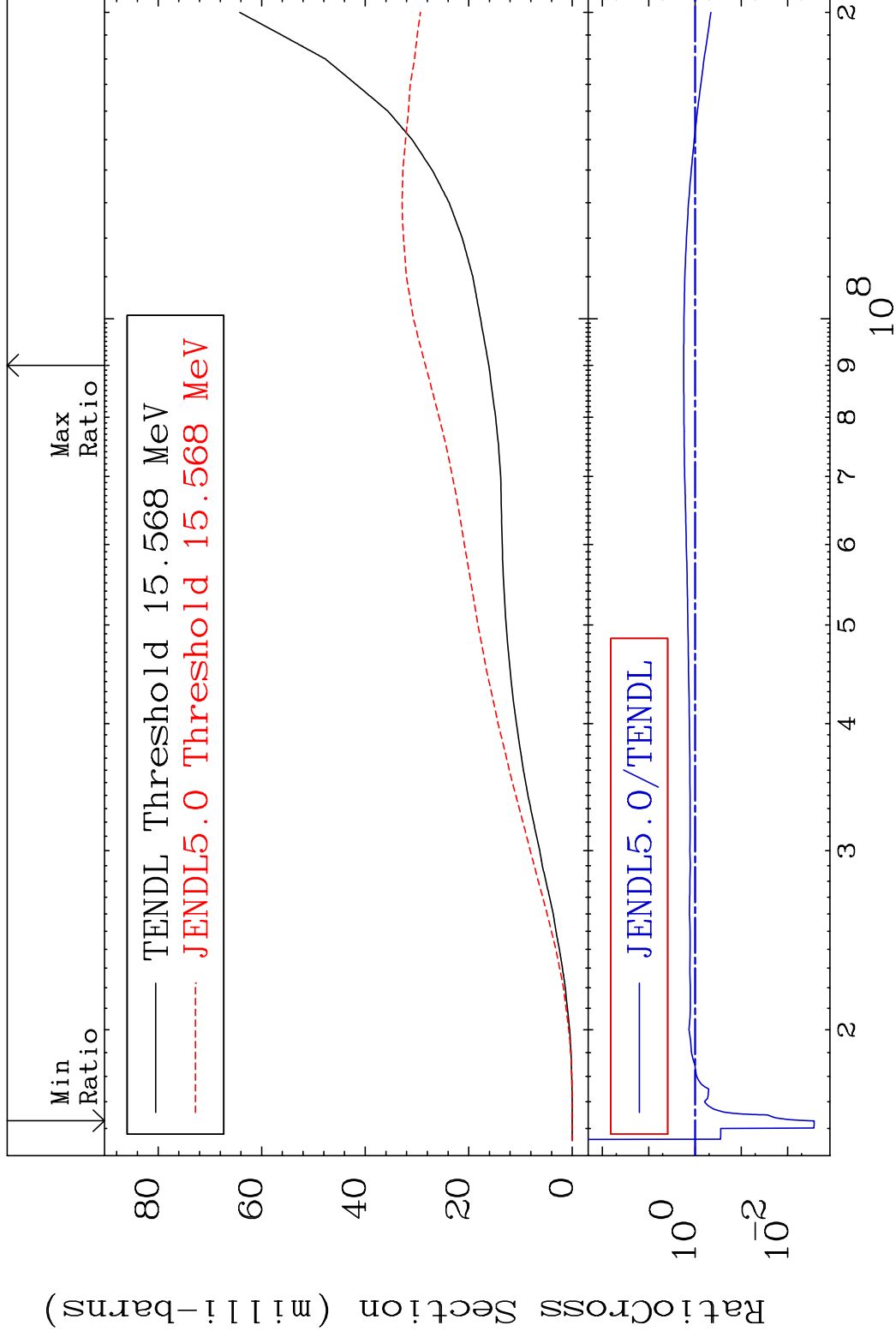
14-Si-32

MAT 1437

Tritium Production

14-Si-32

Cross Section -99.73 To 75.96 %



34

Incident Energy (eV)

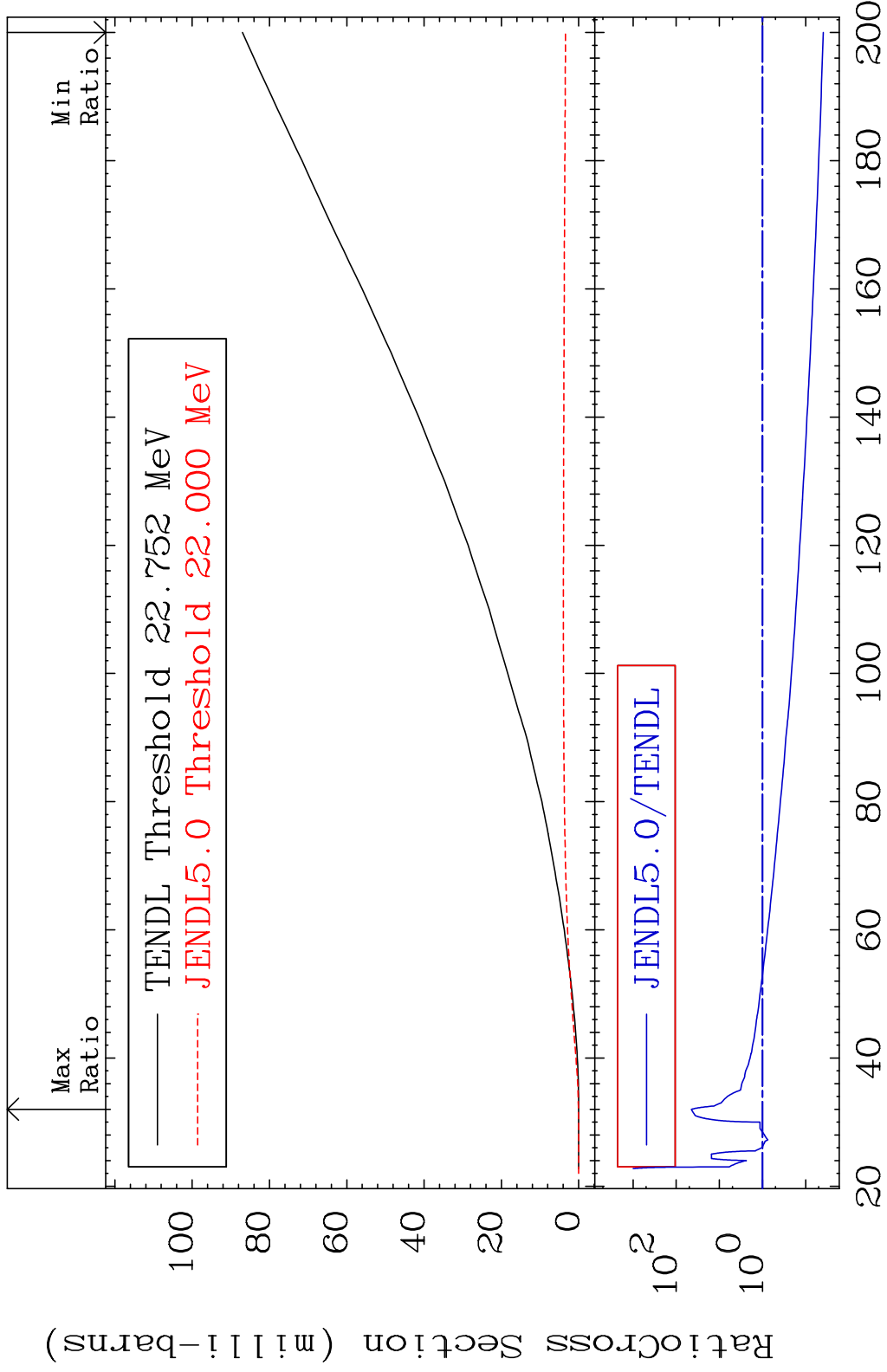
14-Si-32

MAT 1437

He-3 Production

14-Si-32

Cross Section -96.07 To 4365. %



35

Incident Energy (MeV)

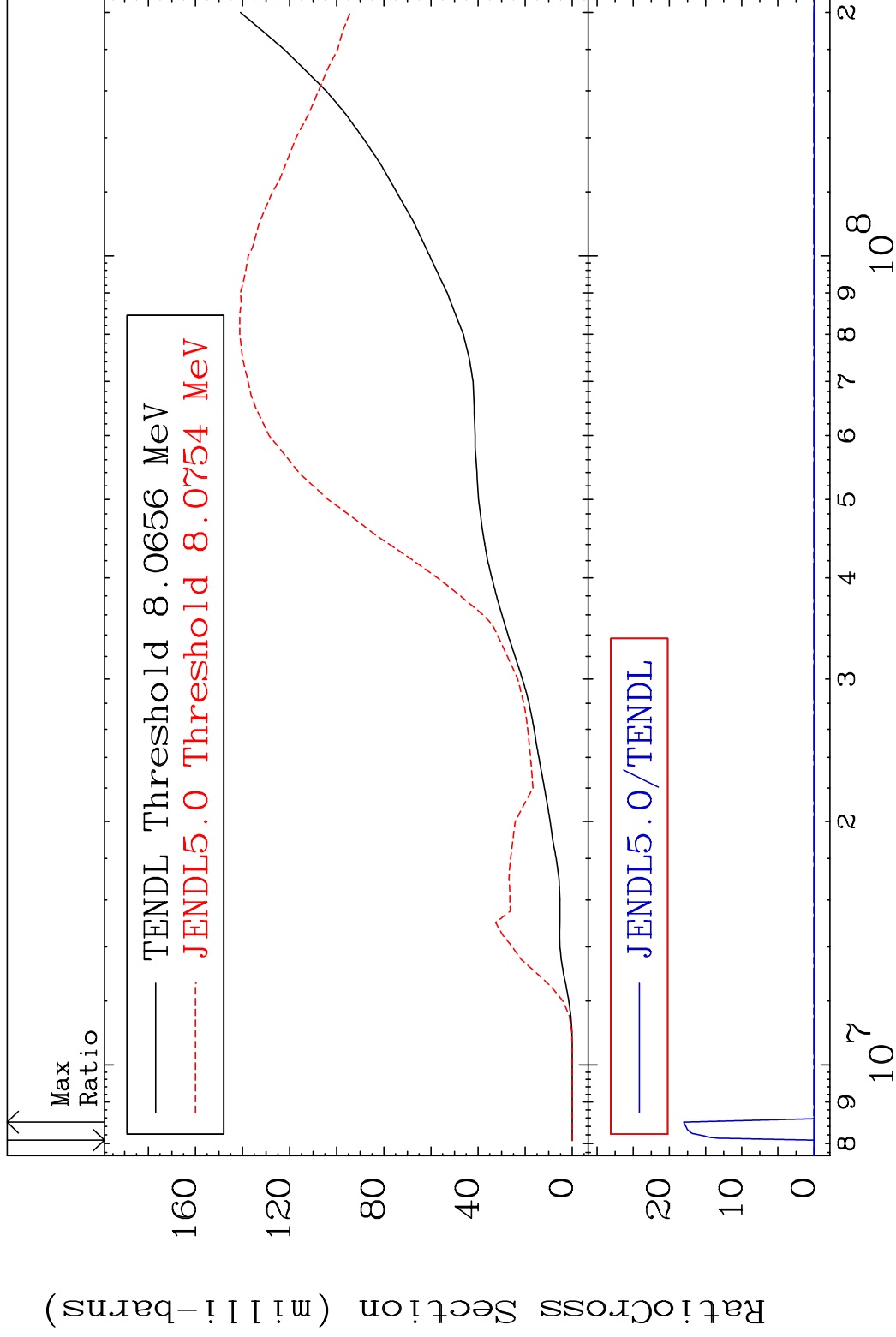
14-Si-32

MAT 1437

He-4 Production

14-Si-32

Cross Section -100.0 To 9999. %



36

Incident Energy (eV)

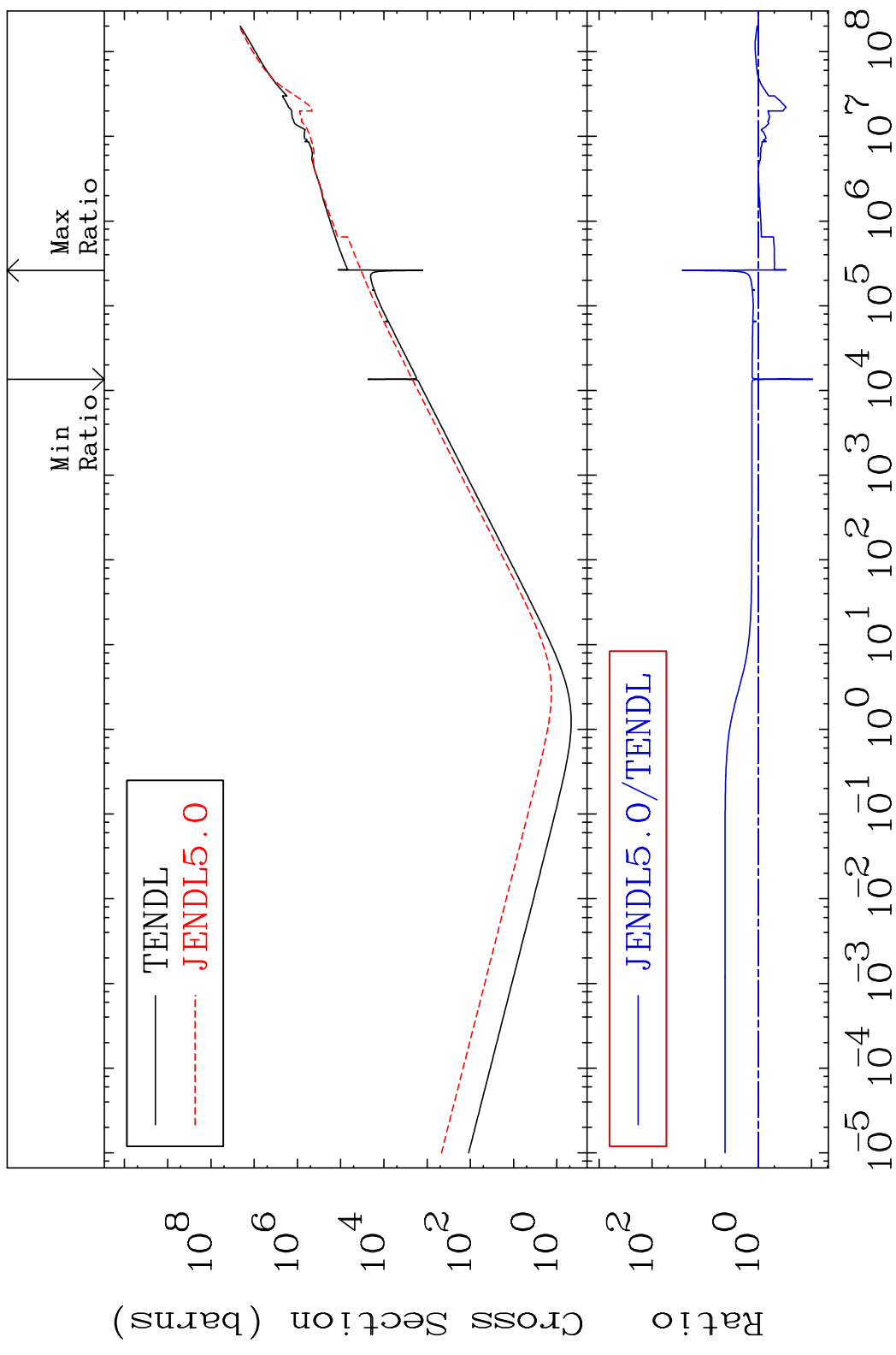
14-Si-32

MAT 1437

Kerma total (eV-barns)

14-Si-32

Cross Section -90.47 To 2598. %



37

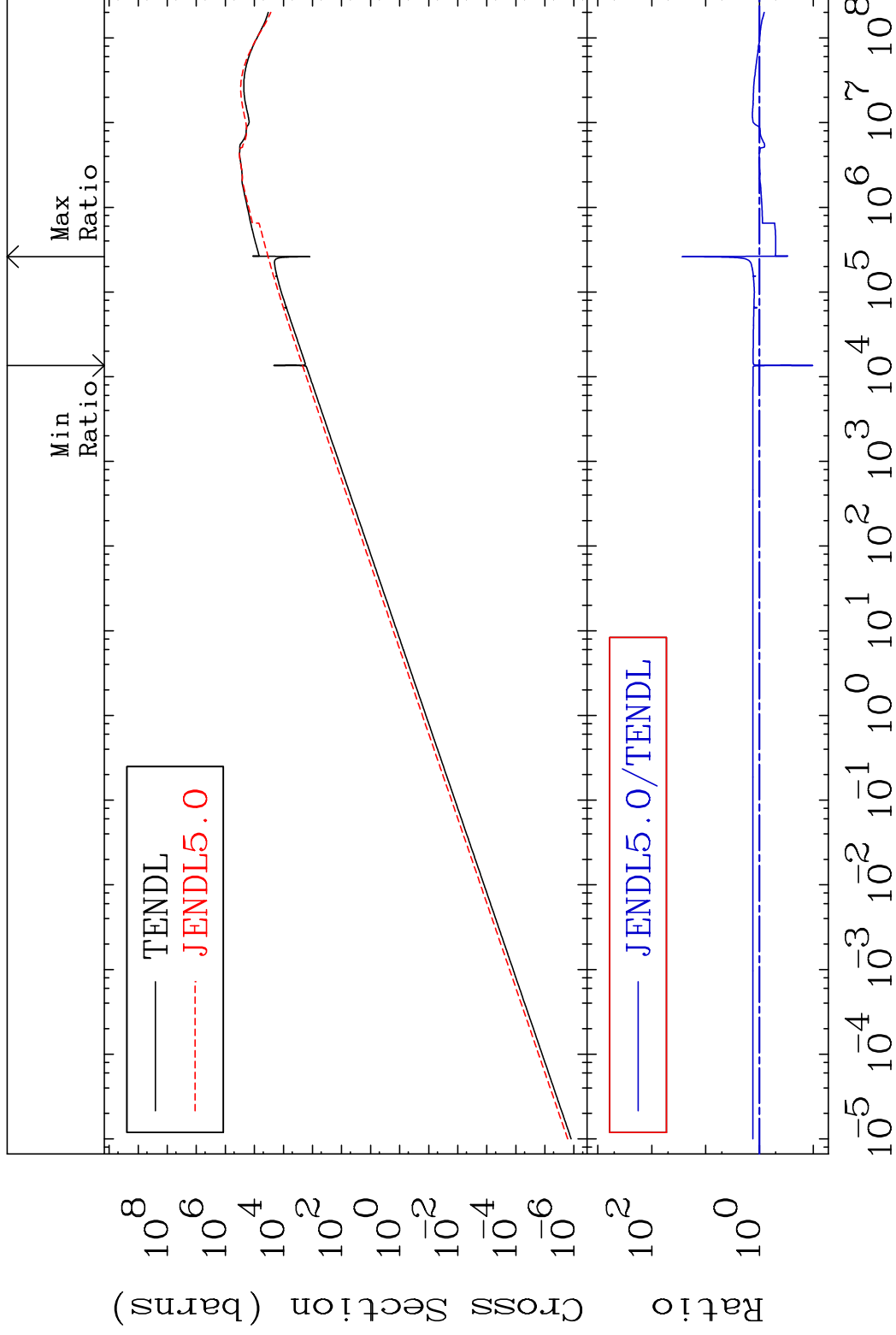
Incident Energy (eV)

14-Si-32

MAT 1437

Kerma elastic
Cross Section

14-Si-32
-89.68 To 2601. %

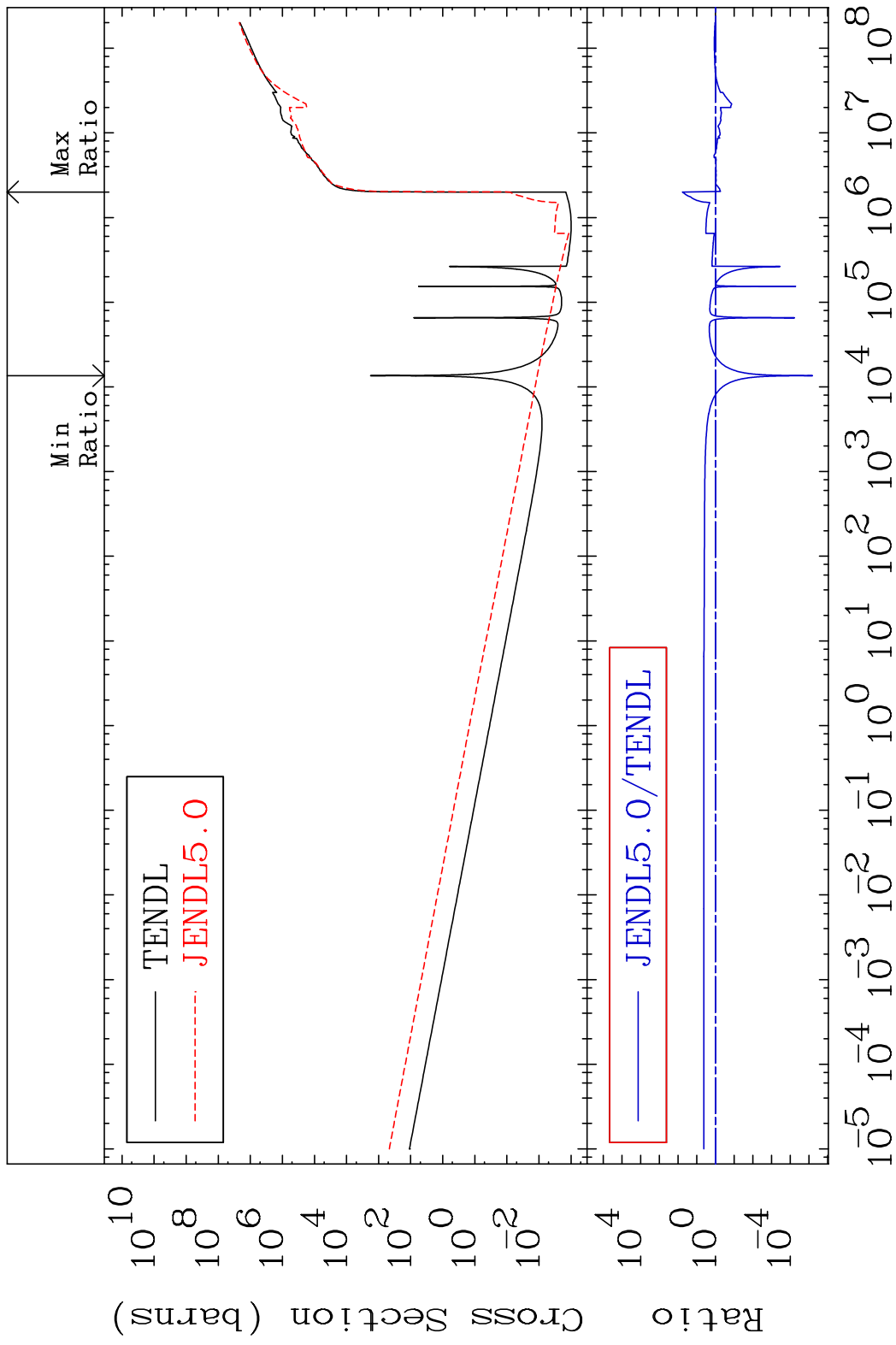


38

Incident Energy (eV)

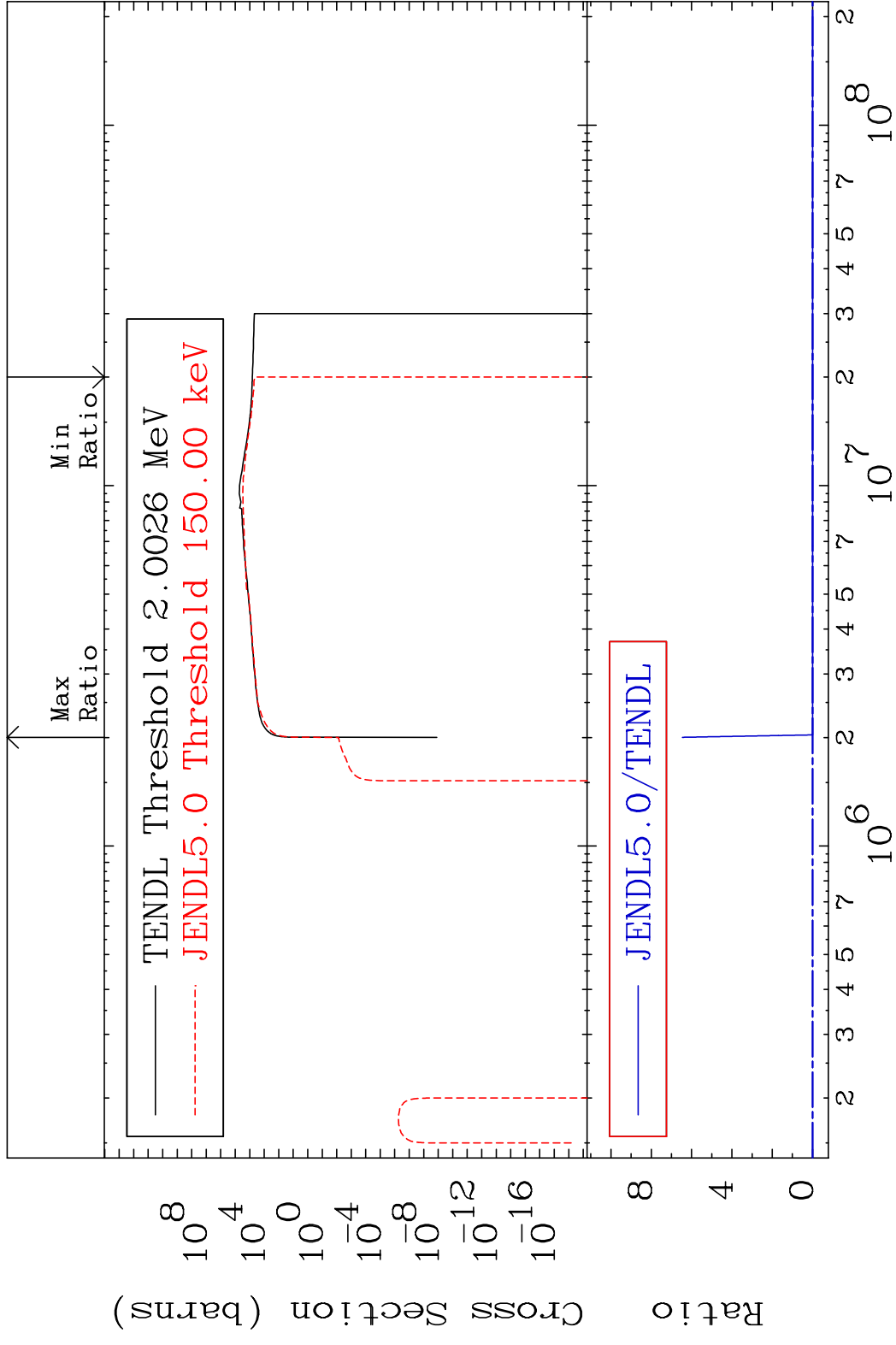
14-Si-32

MAT 1437 Kerma non-elastic (all but mt2) 14-Si-32
 Cross Section -100.0 To 5814. %



MAT 1437

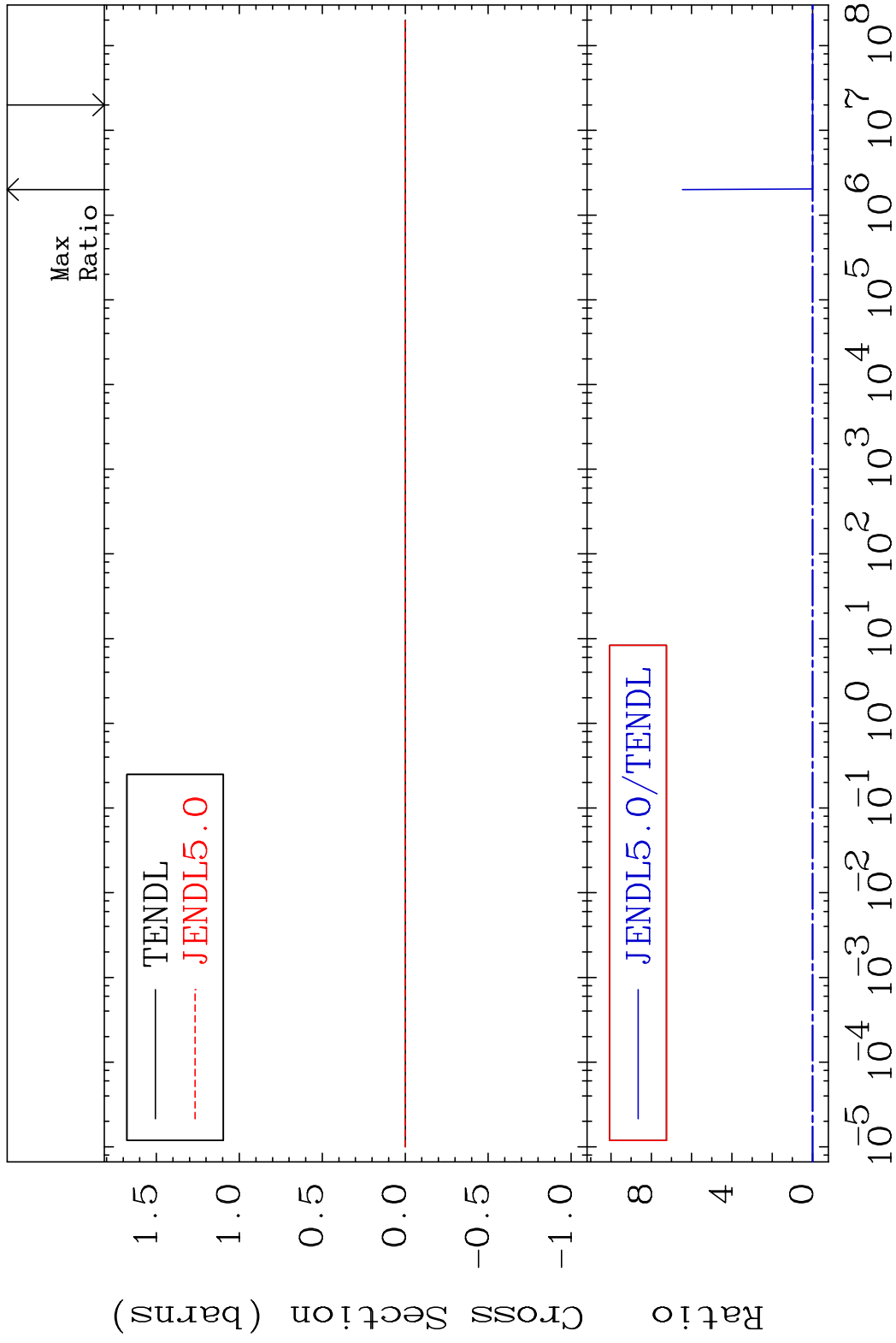
Kerma inelastic (mt51-91) 14-Si-32
Cross Section -100.0 To 9999. %



40

Incident Energy (eV) 14-Si-32

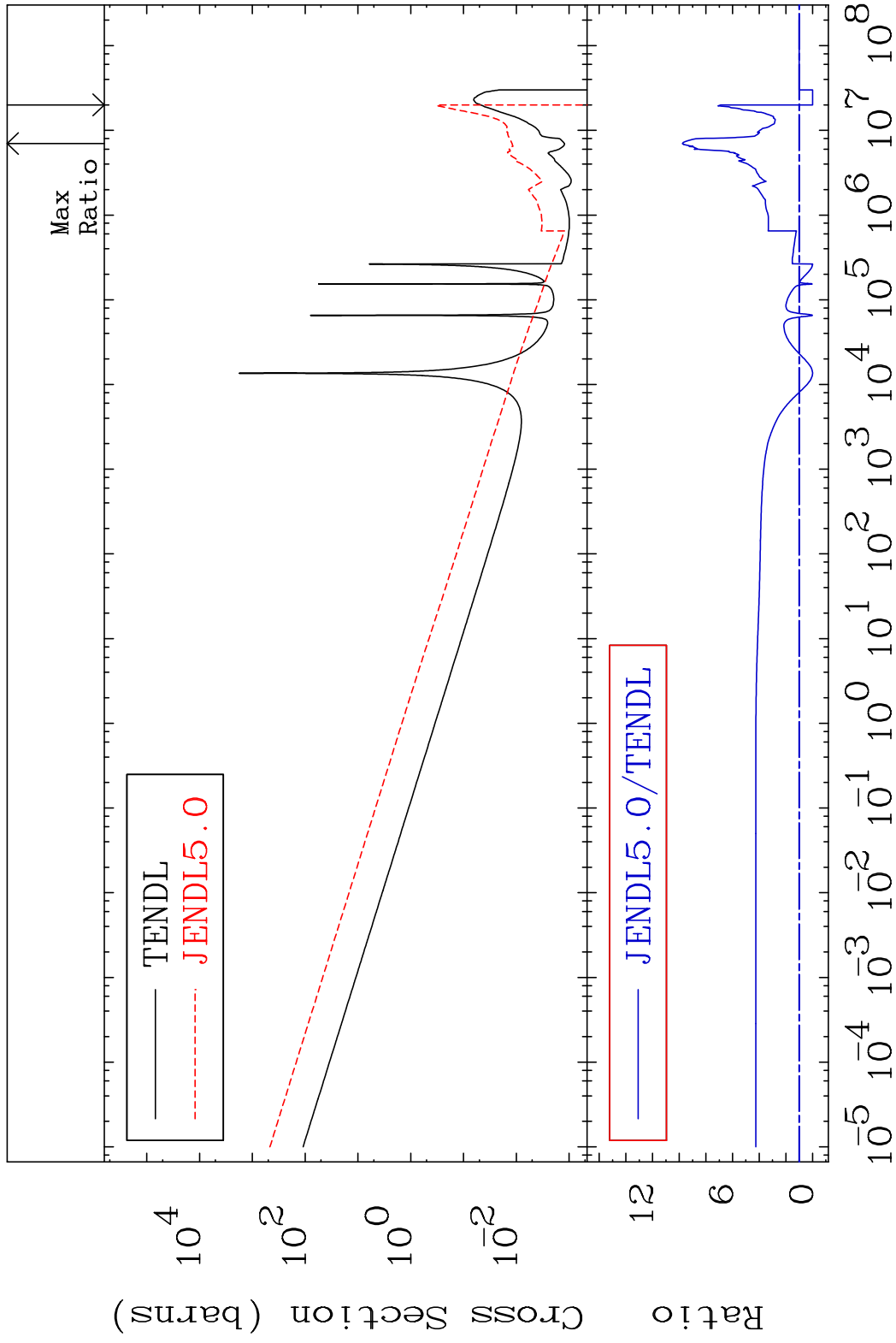
MAT 1437 Kerma fission (mt18 or mt19-20-21-38) 14-Si-32
 Cross Section -100.0 To 9999. %



MAT 1437

Kerma capture (mt102) 14-Si-32

Cross Section -100.0 To 876.5 %

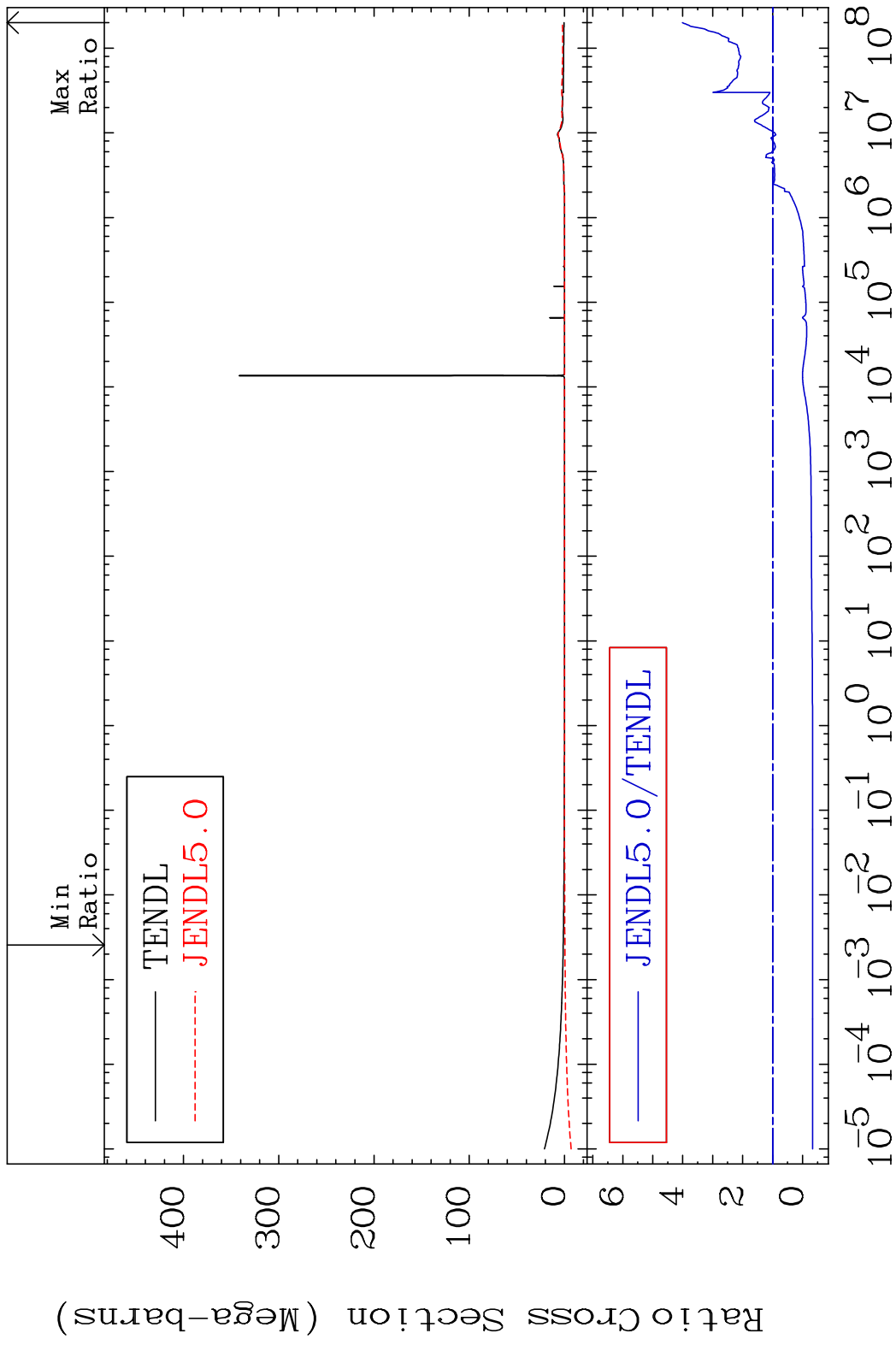


42

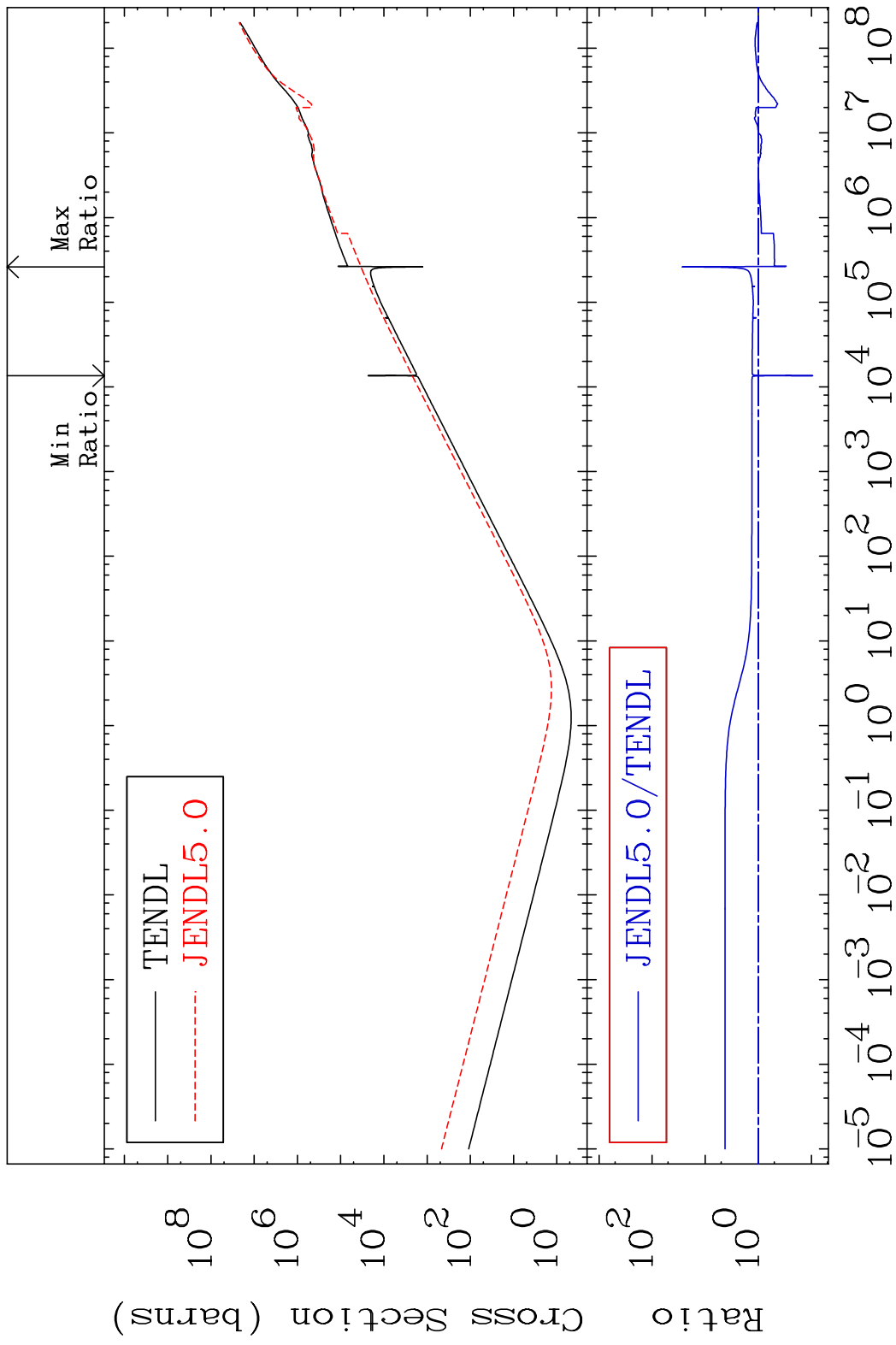
Incident Energy (eV)

14-Si-32

MAT 1437 Total photon (eV-barns) 14-Si-32
Cross Section -133.4 To 301.1 %



MAT 1437 Total kinematic kerma (high limit) 14-Si-32
 Cross Section -90.47 To 2598. %

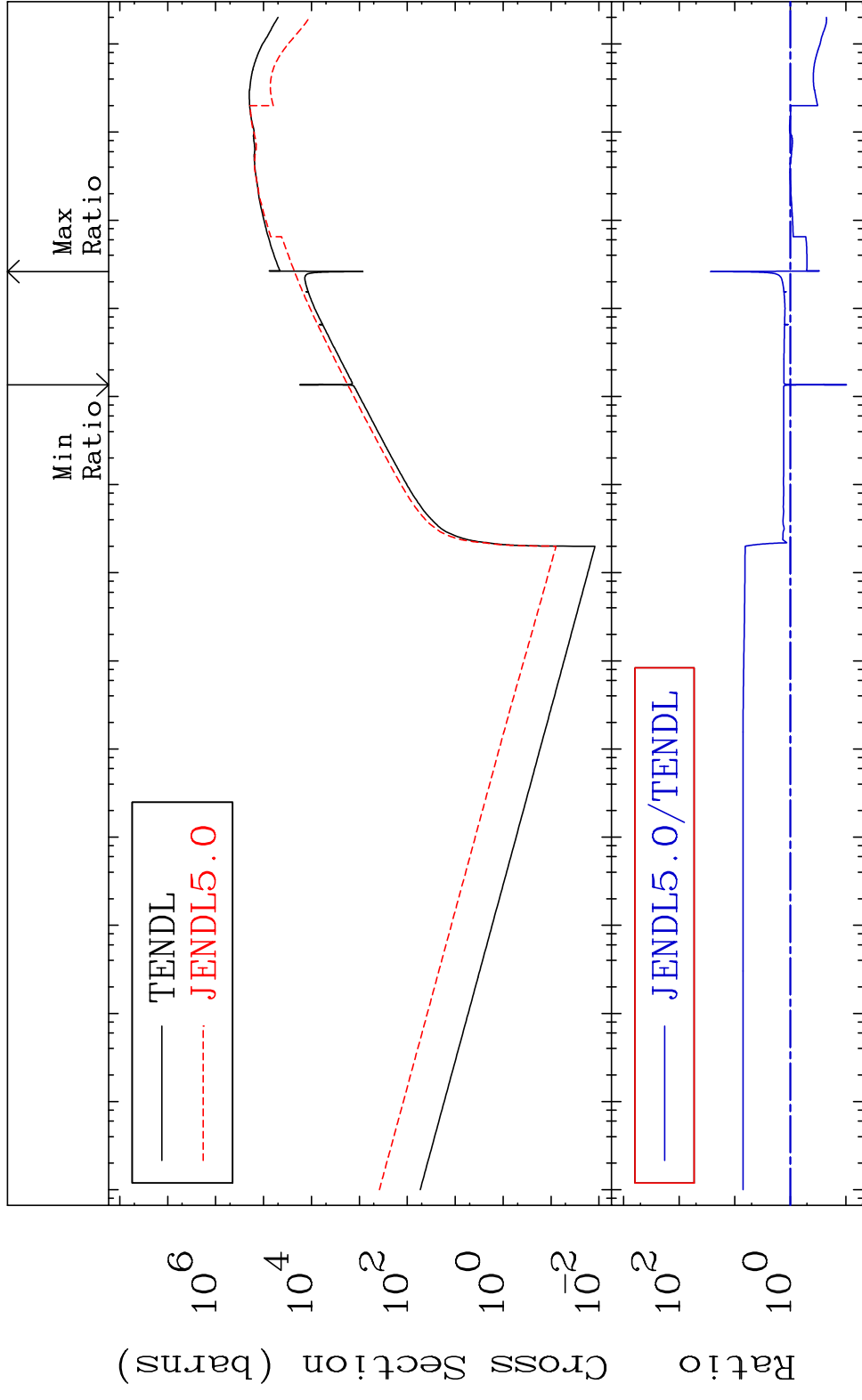


MAT 1437

Dpa total (eV-barns)

14-Si-32

Cross Section -90.19 To 2611. %



Ratio
Cross Section (barns)
10⁶
10⁴
10²
10⁰
10⁻²
10²
10⁰
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

45

Incident Energy (eV)

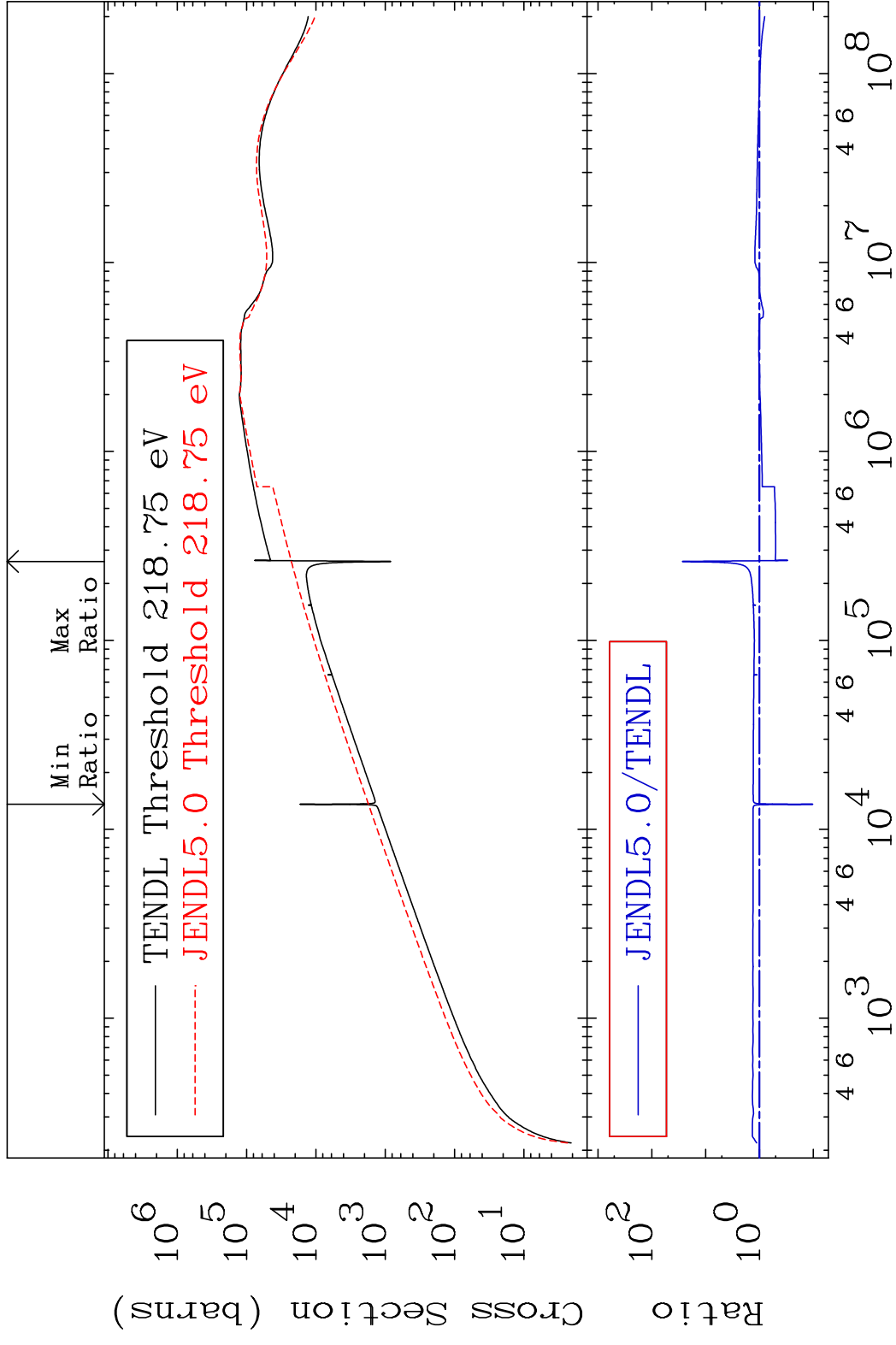
14-Si-32

MAT 1437

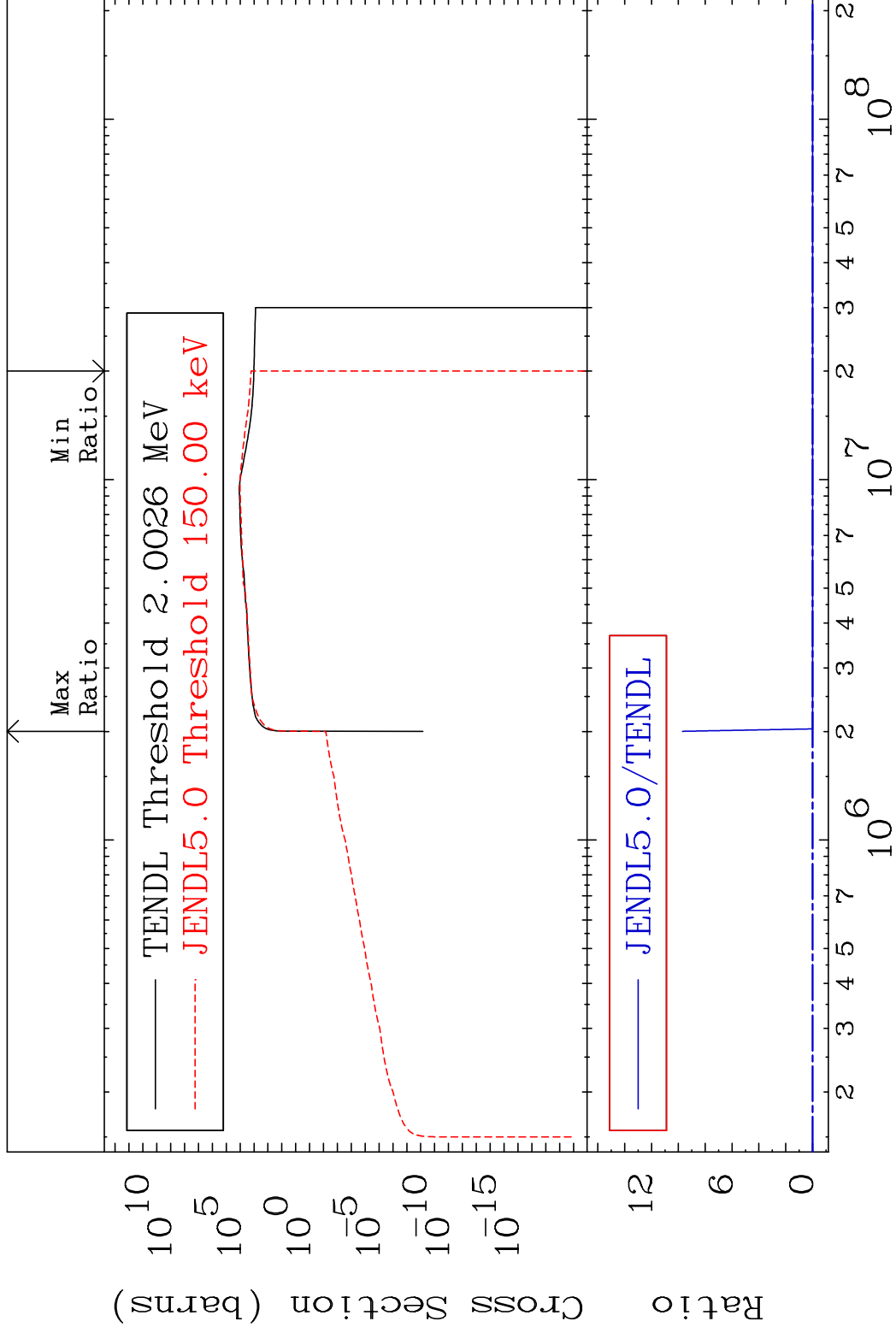
Dpa elastic (mt2)

14-Si-32

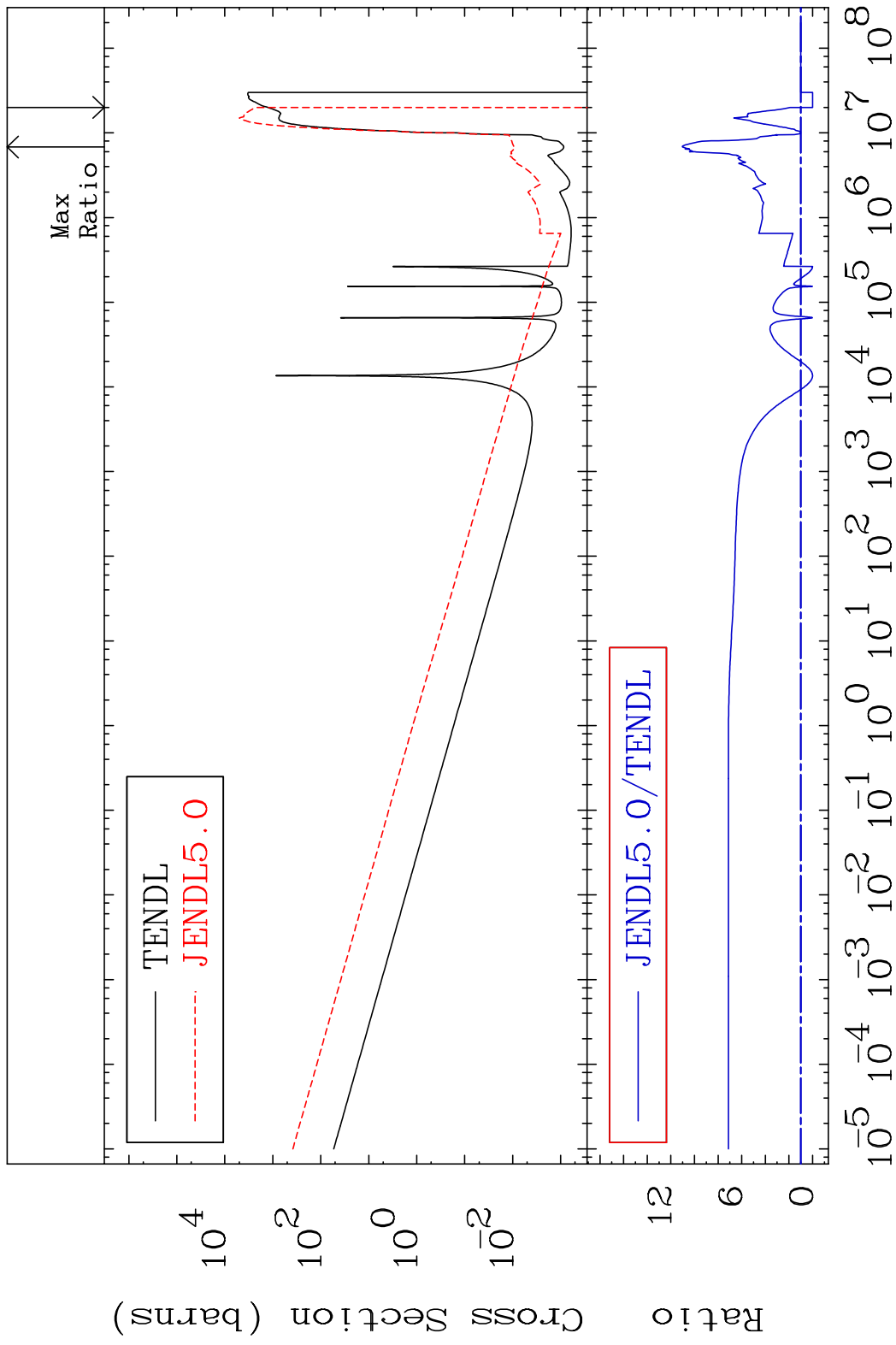
Cross Section -89.69 To 2613. %



Cross Section -100.0 To 9999. %



MAT 1437 Dpa disappearance (mt102 -120) 14-Si-32
 Cross Section -100.0 To 1003. %

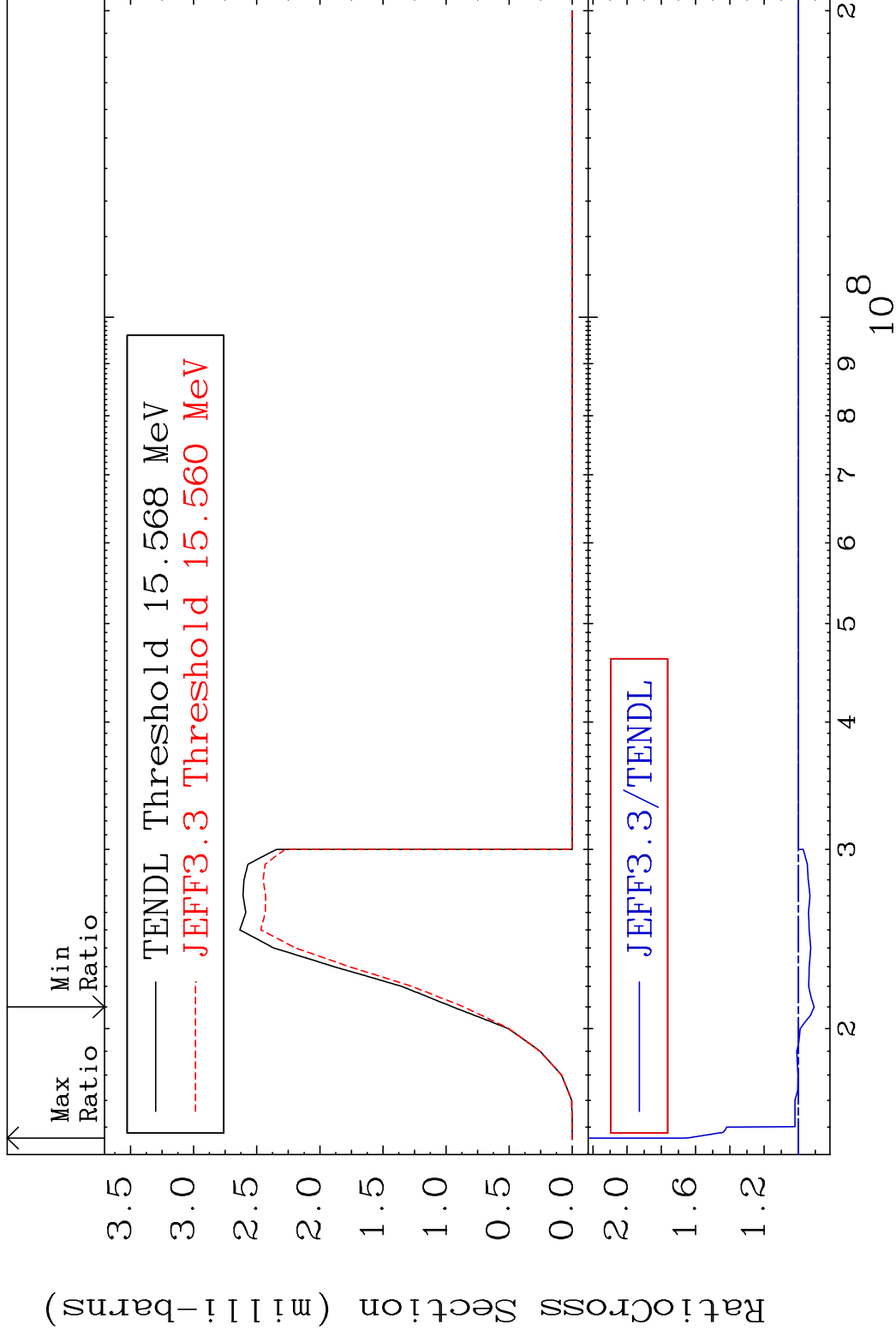


MAT 1437

(n, t)

14-Si-32

Cross Section -9.245 To 66.97 %



49

Incident Energy (eV)

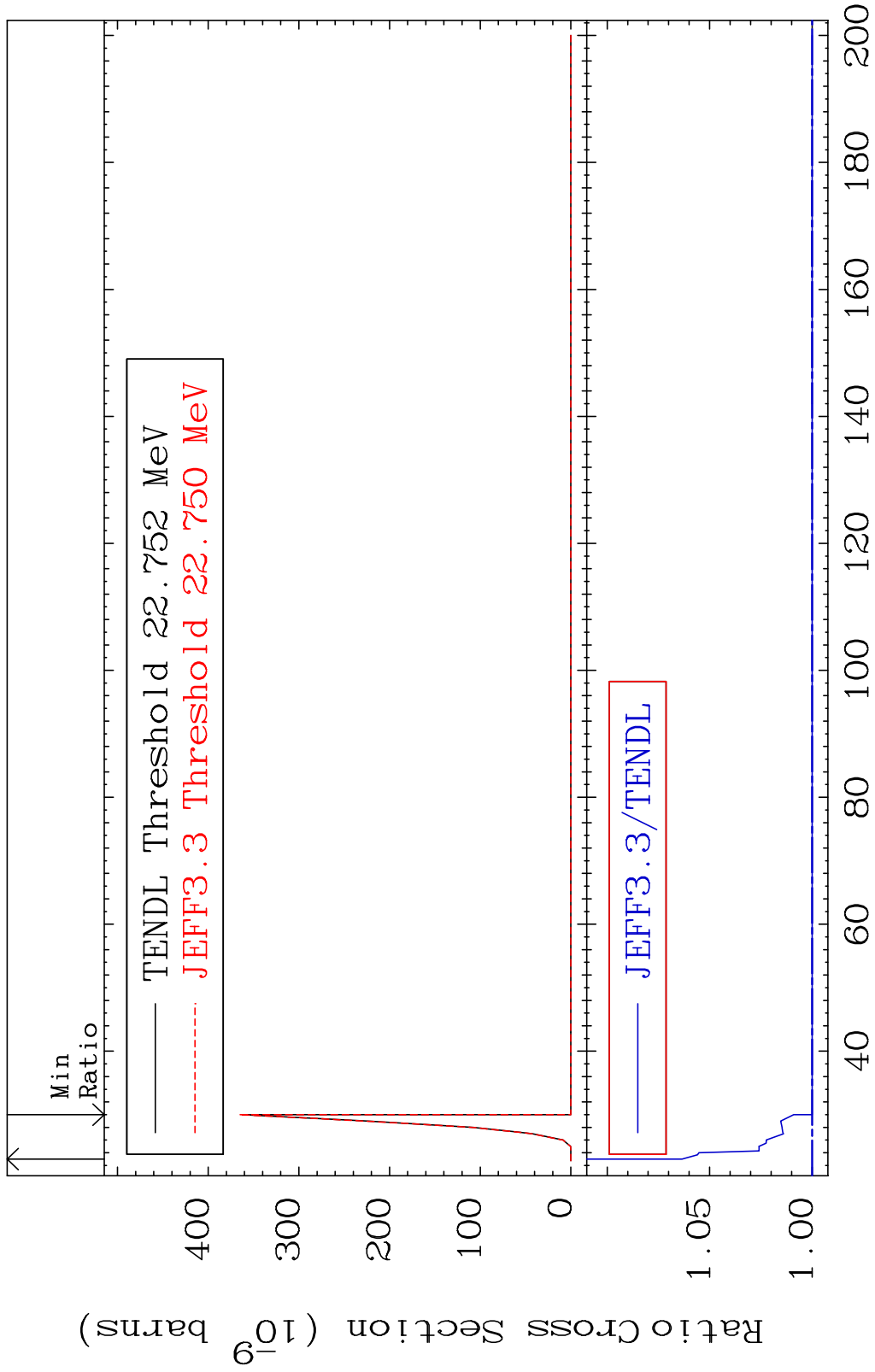
14-Si-32

MAT 1437

(n, He-3)

¹⁴Si-32

Cross Section 0.000 To 6.349 %



50

Incident Energy (MeV)

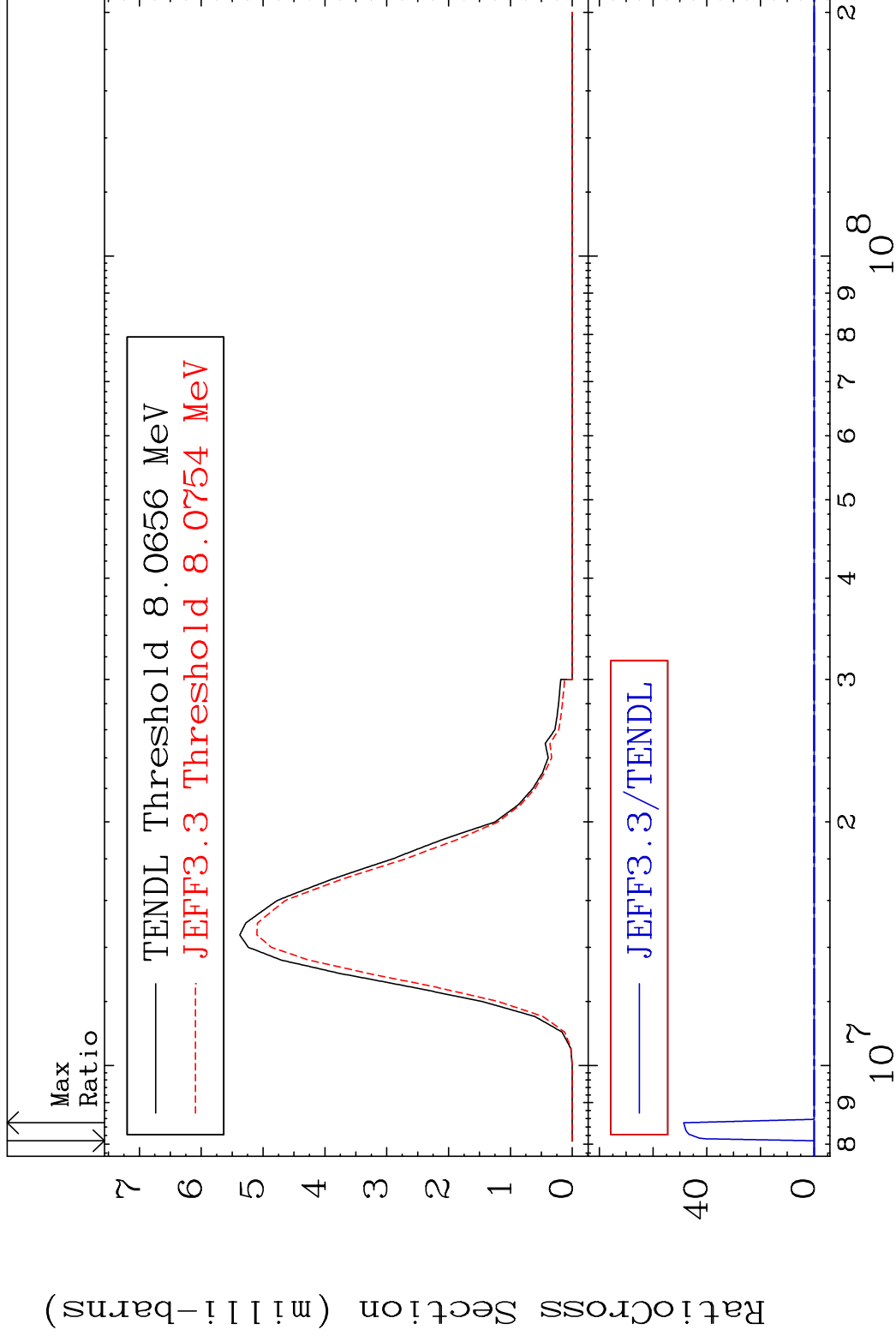
¹⁴Si-32

MAT 1437

(n, α)

14-Si-32

Cross Section -100.0 To 9999. %

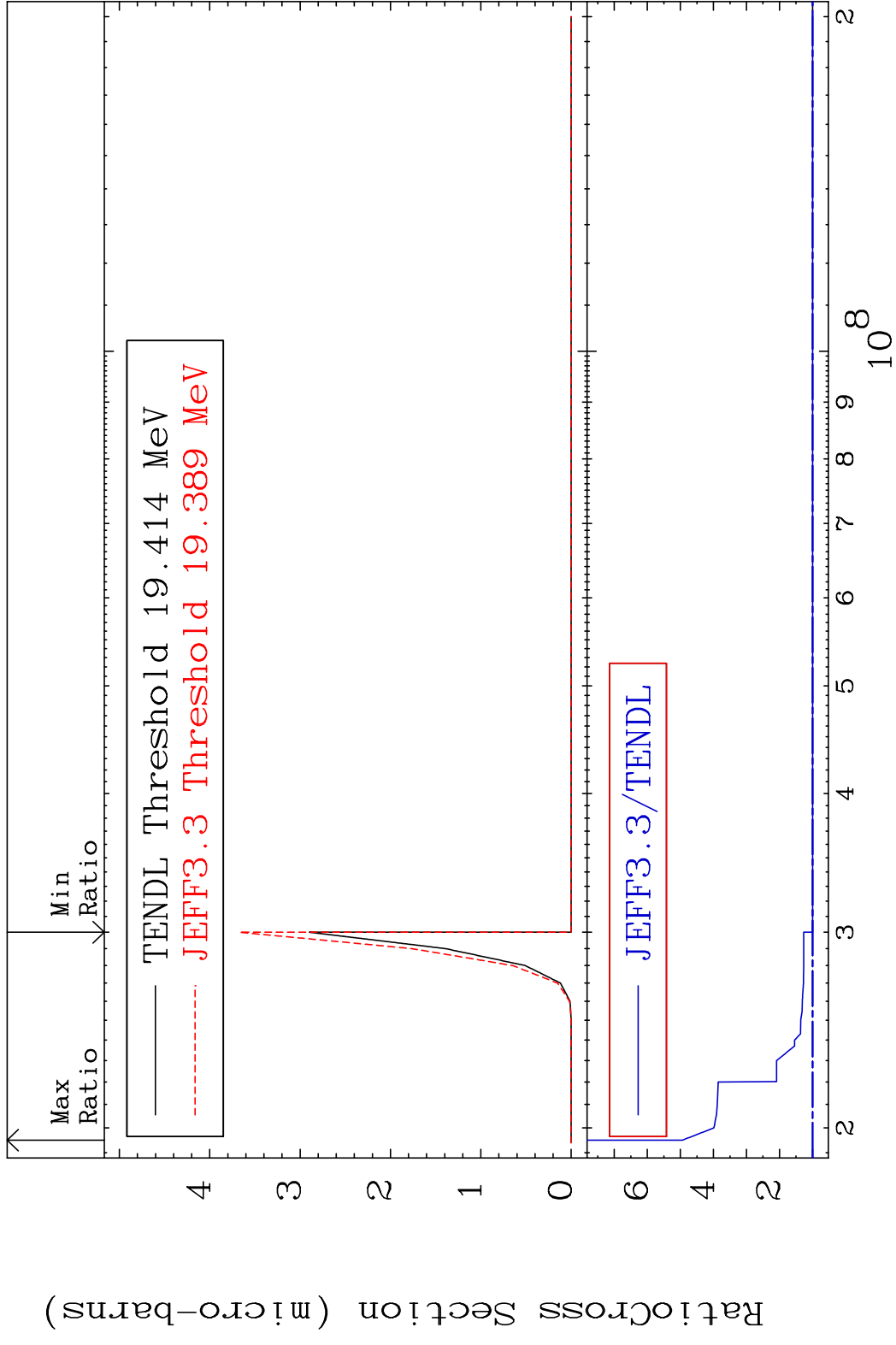


51

Incident Energy (eV)

14-Si-32

MAT 1437 (n,2α) 14-Si-32
 Cross Section 0.000 To 394.0 %

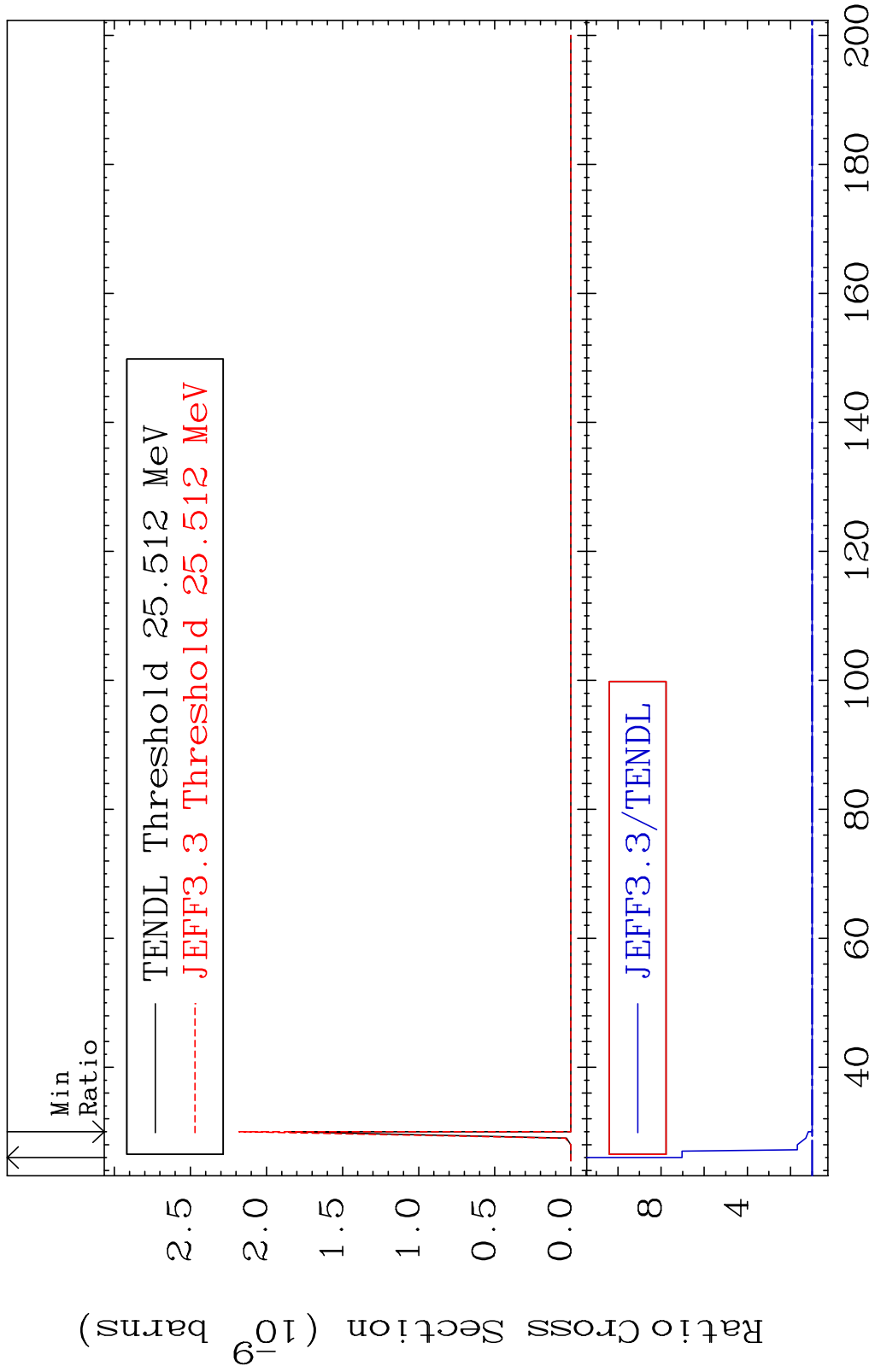


MAT 1437

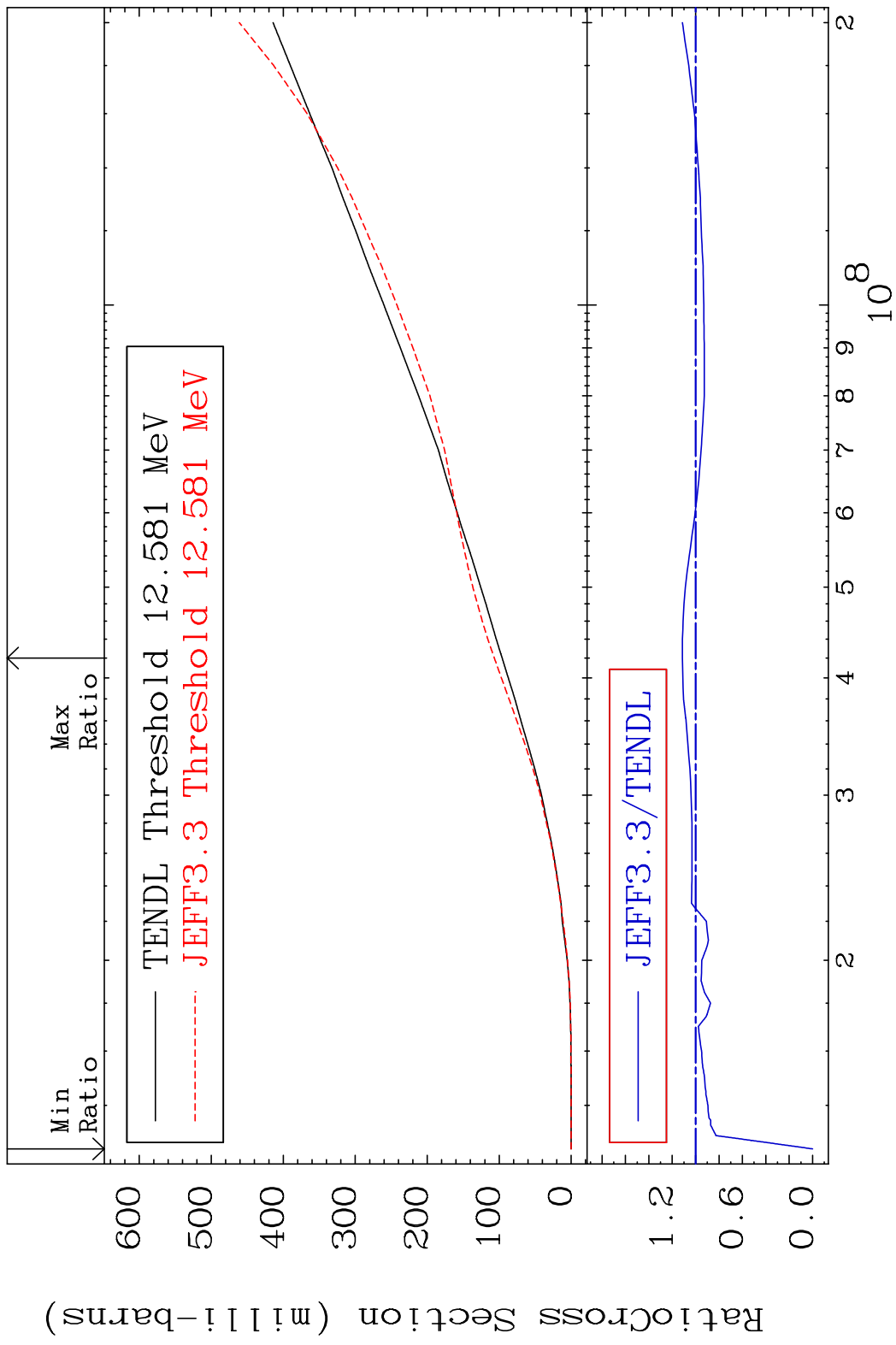
(n,p) α

14-Si-32

Cross Section 0.000 To 603.0 %



MAT 1437 Hydrogen Production 14-Si-32
 Cross Section -100.0 To 11.35 %

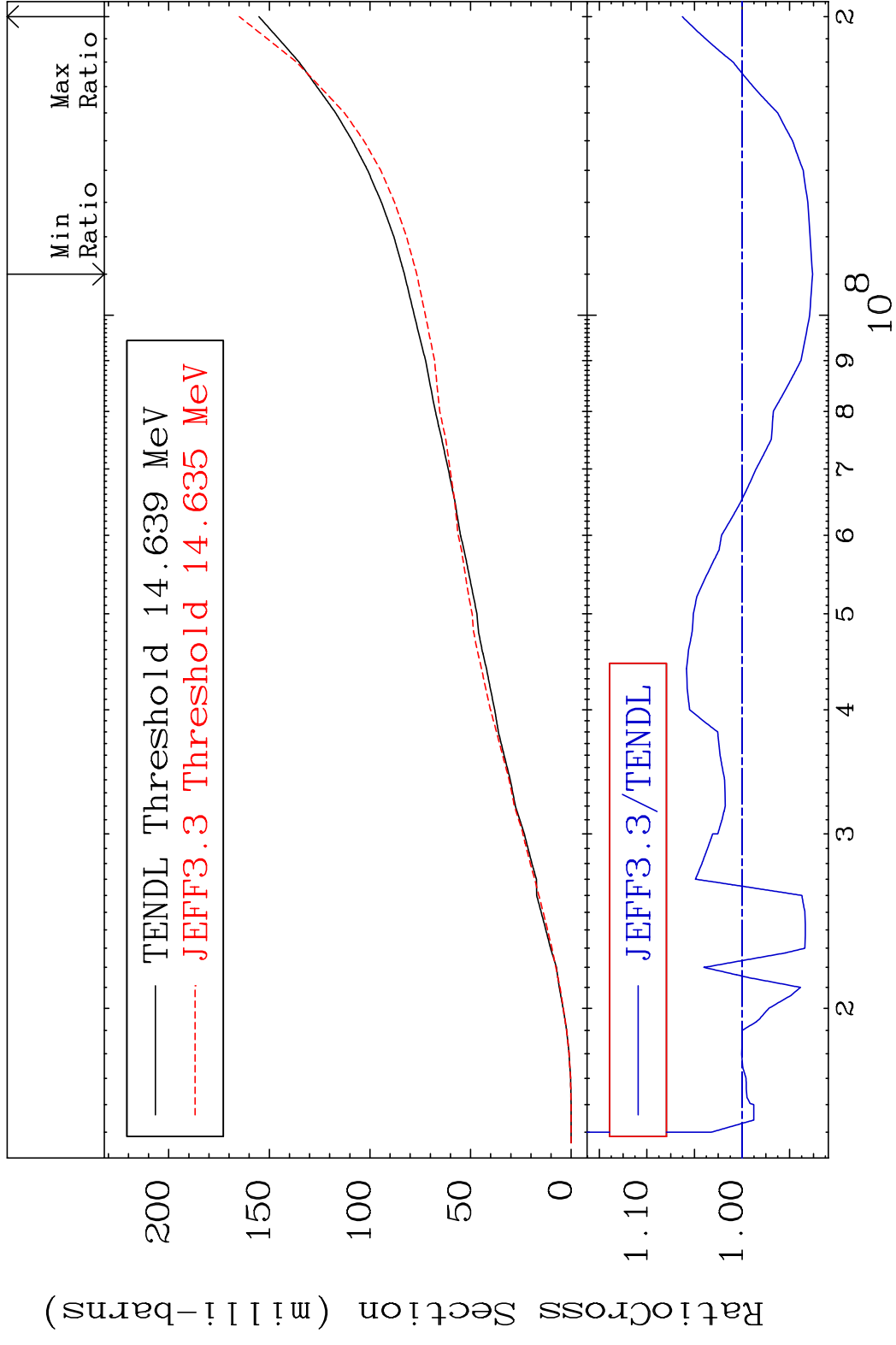


MAT 1437

Deuterium Production

¹⁴Si-32

Cross Section -7.405 To 6.277 %

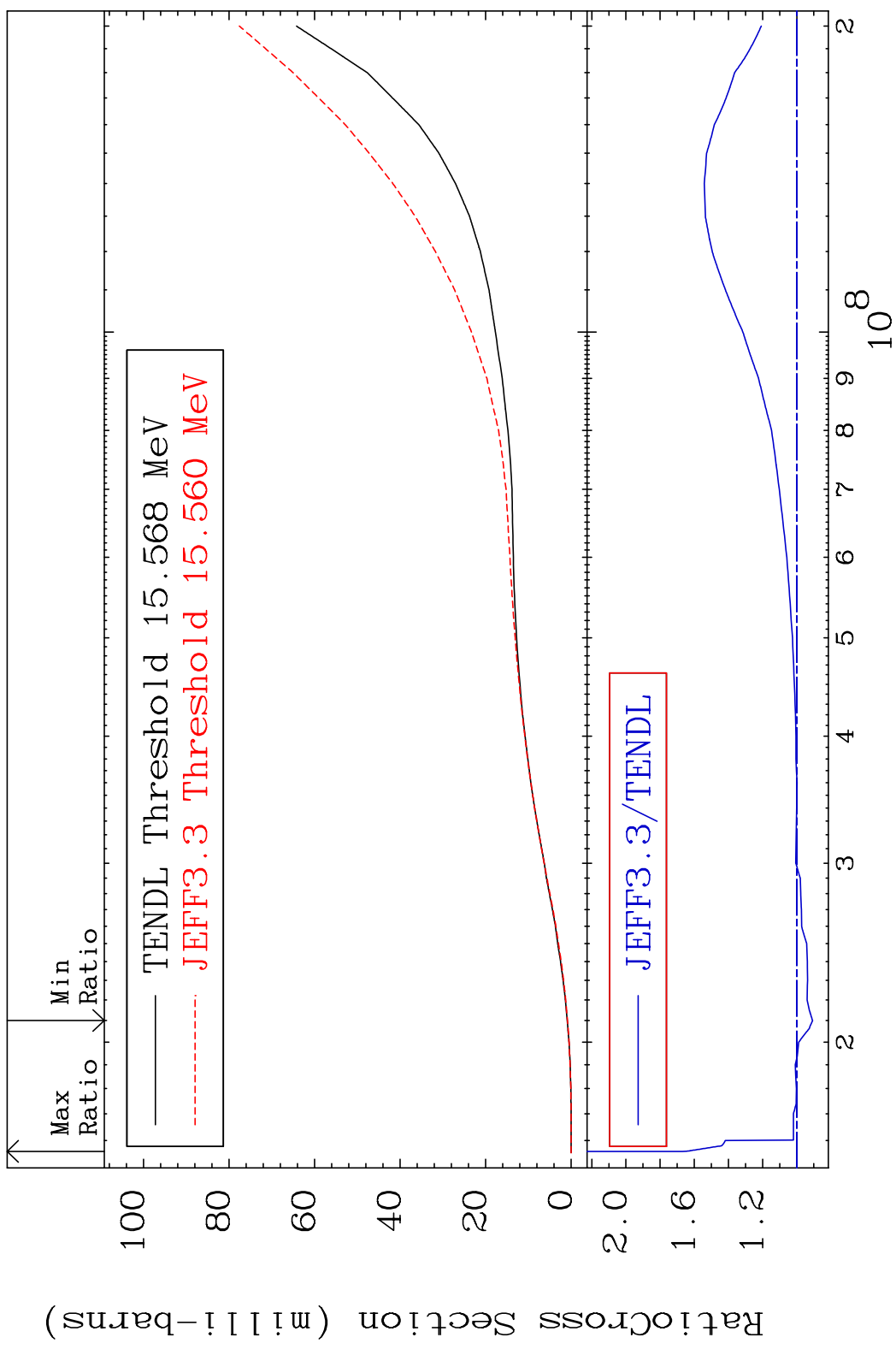


MAT 1437

Tritium Production

14-Si-32

Cross Section -9.245 To 66.97 %

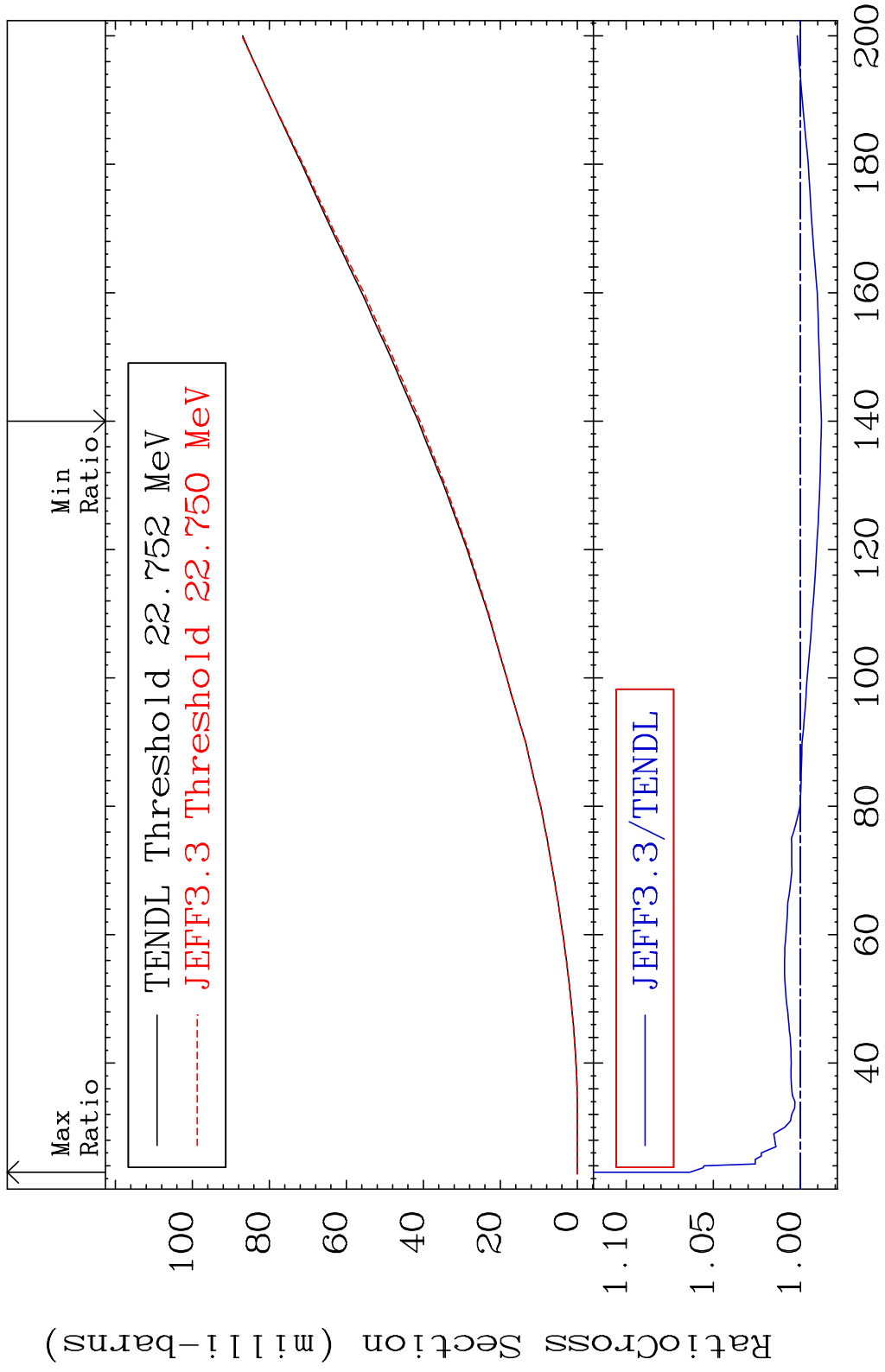


MAT 1437

He-3 Production

¹⁴Si-32

Cross Section -1.207 To 6.349 %



57

Incident Energy (MeV)

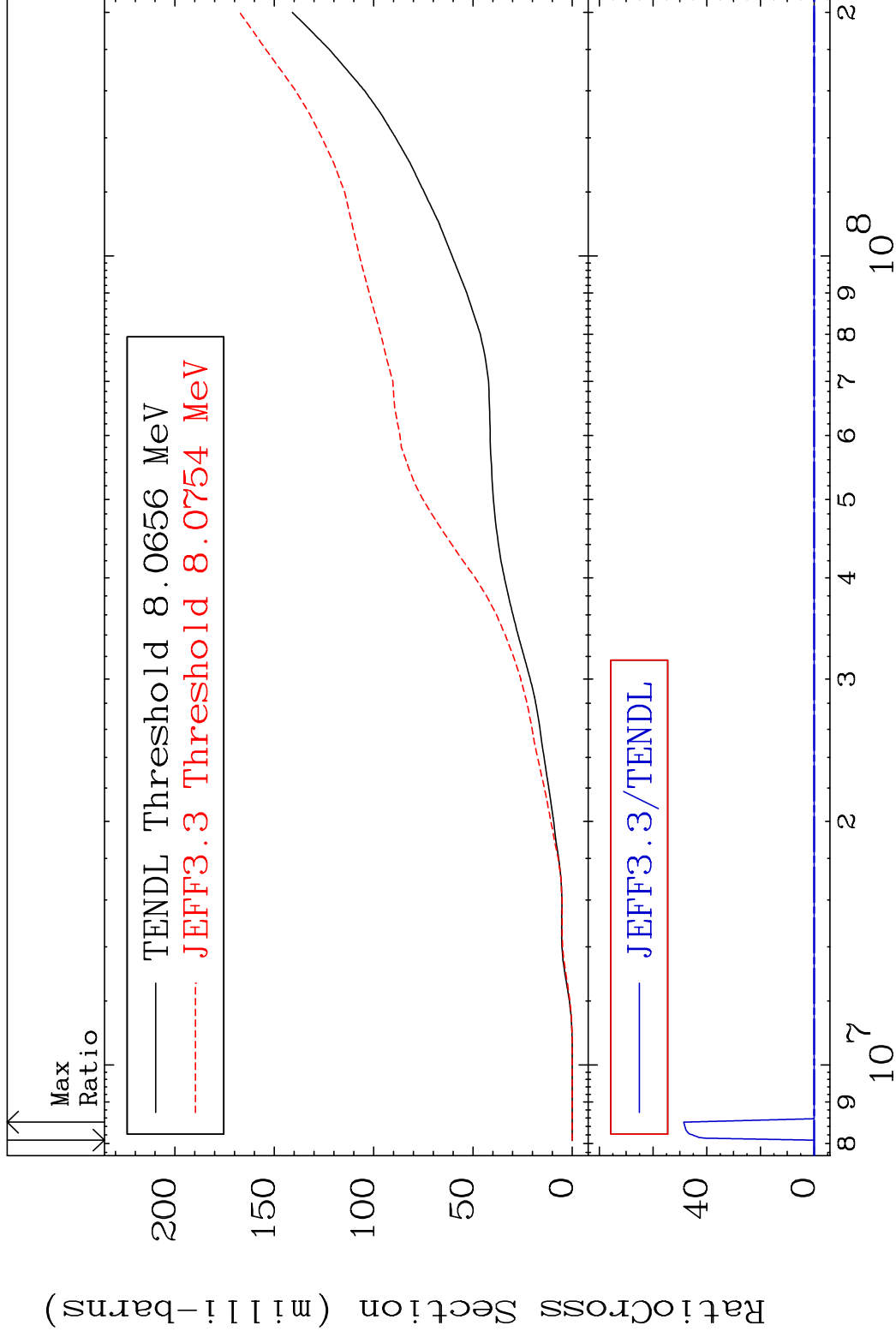
¹⁴Si-32

MAT 1437

He-4 Production

14-Si-32

Cross Section -100.0 To 9999. %



58

Incident Energy (eV)

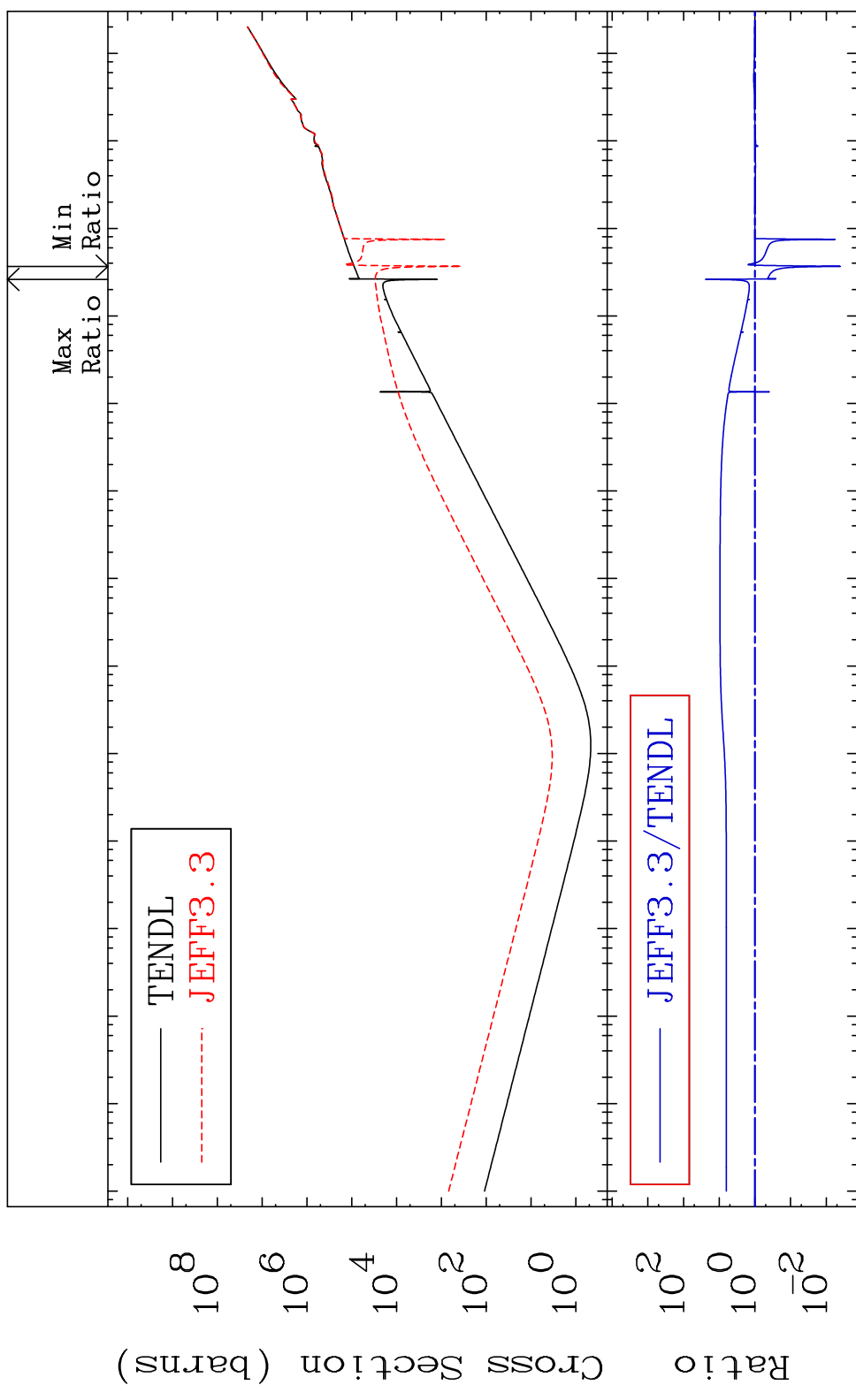
14-Si-32

MAT 1437

Kerma total (eV-barns)

14-Si-32

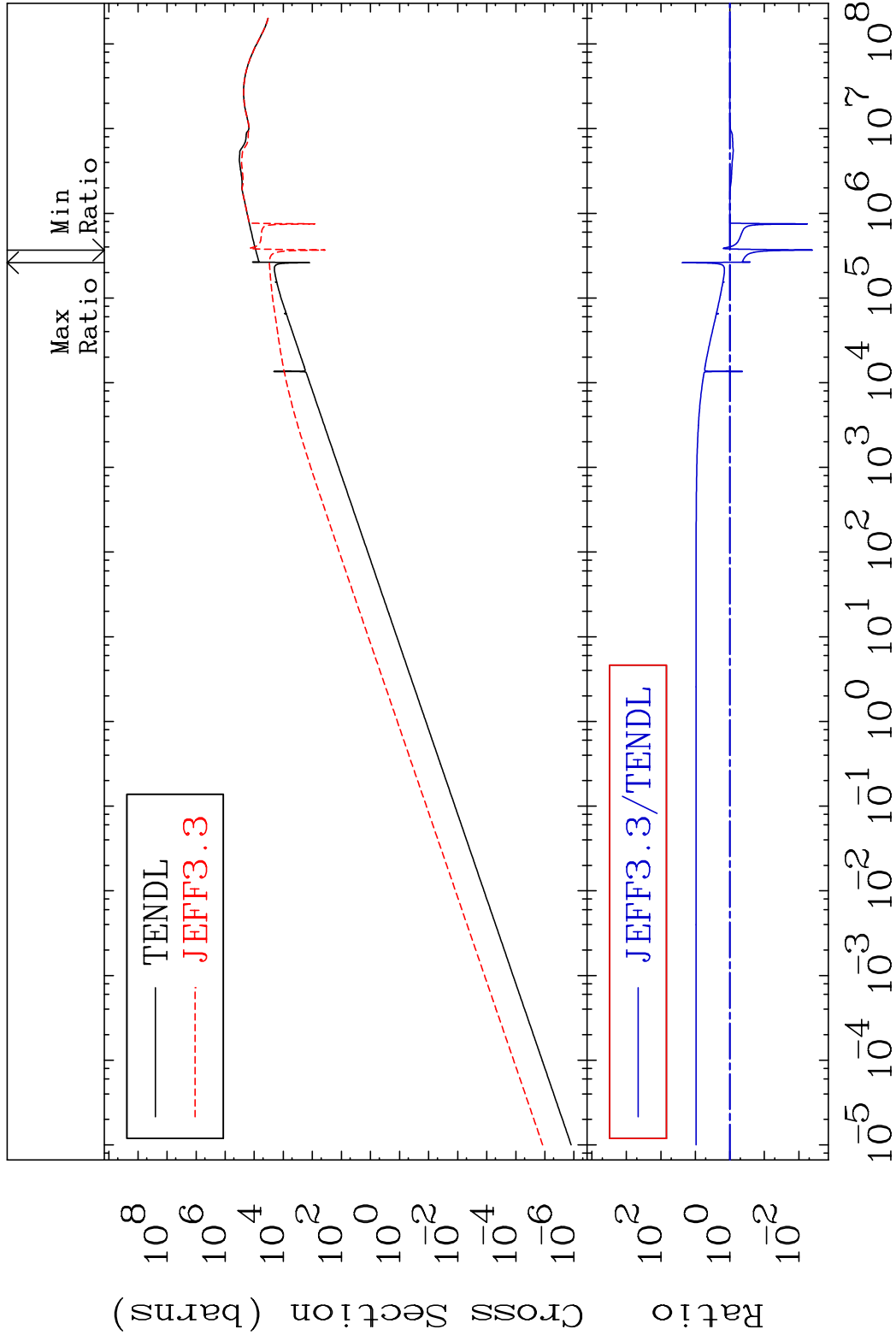
Cross Section -99.60 To 2282. %



MAT 1437

Kerma elastic
Cross Section

14-Si-32
-99.60 To 2284. %

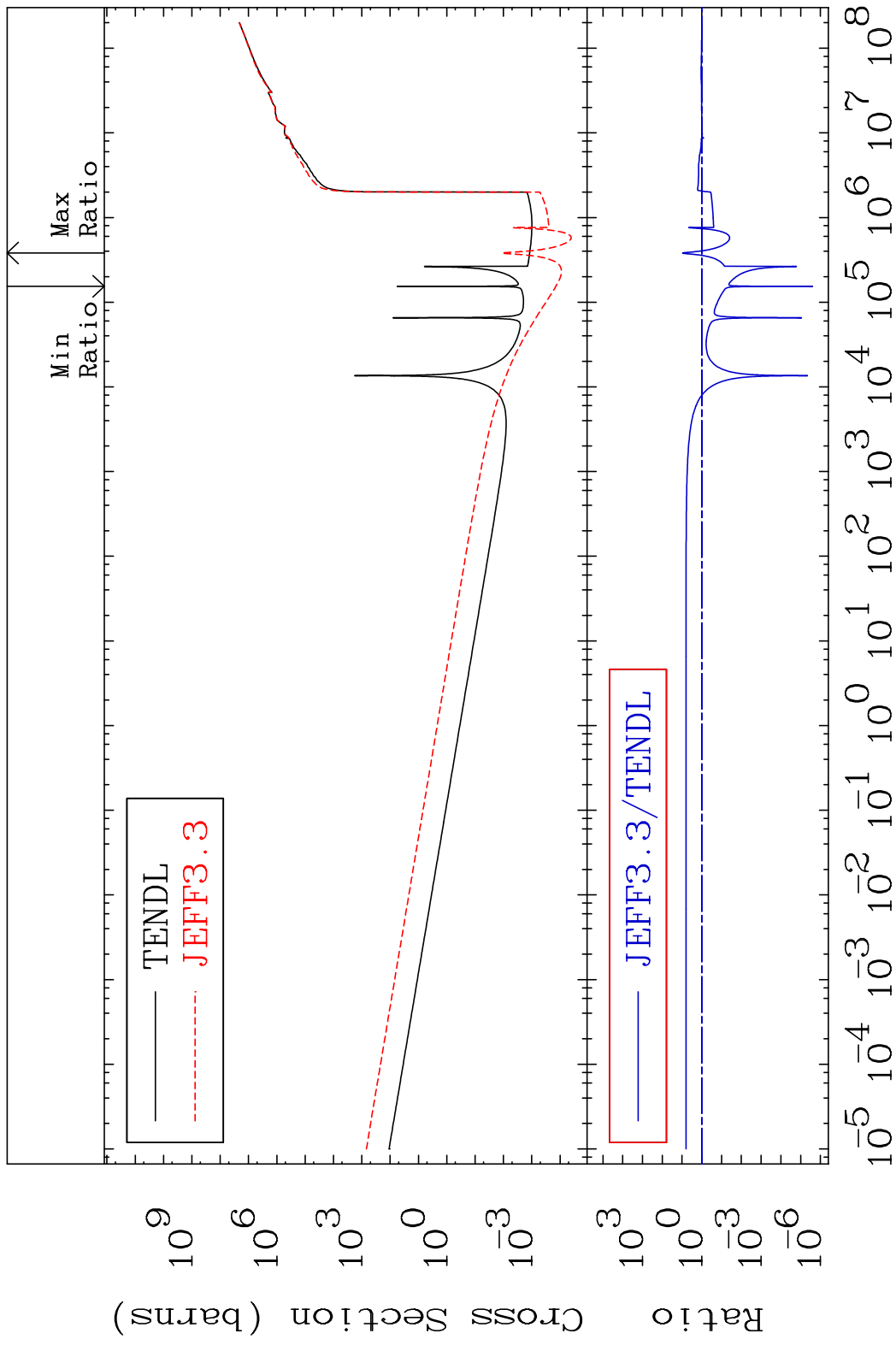


60

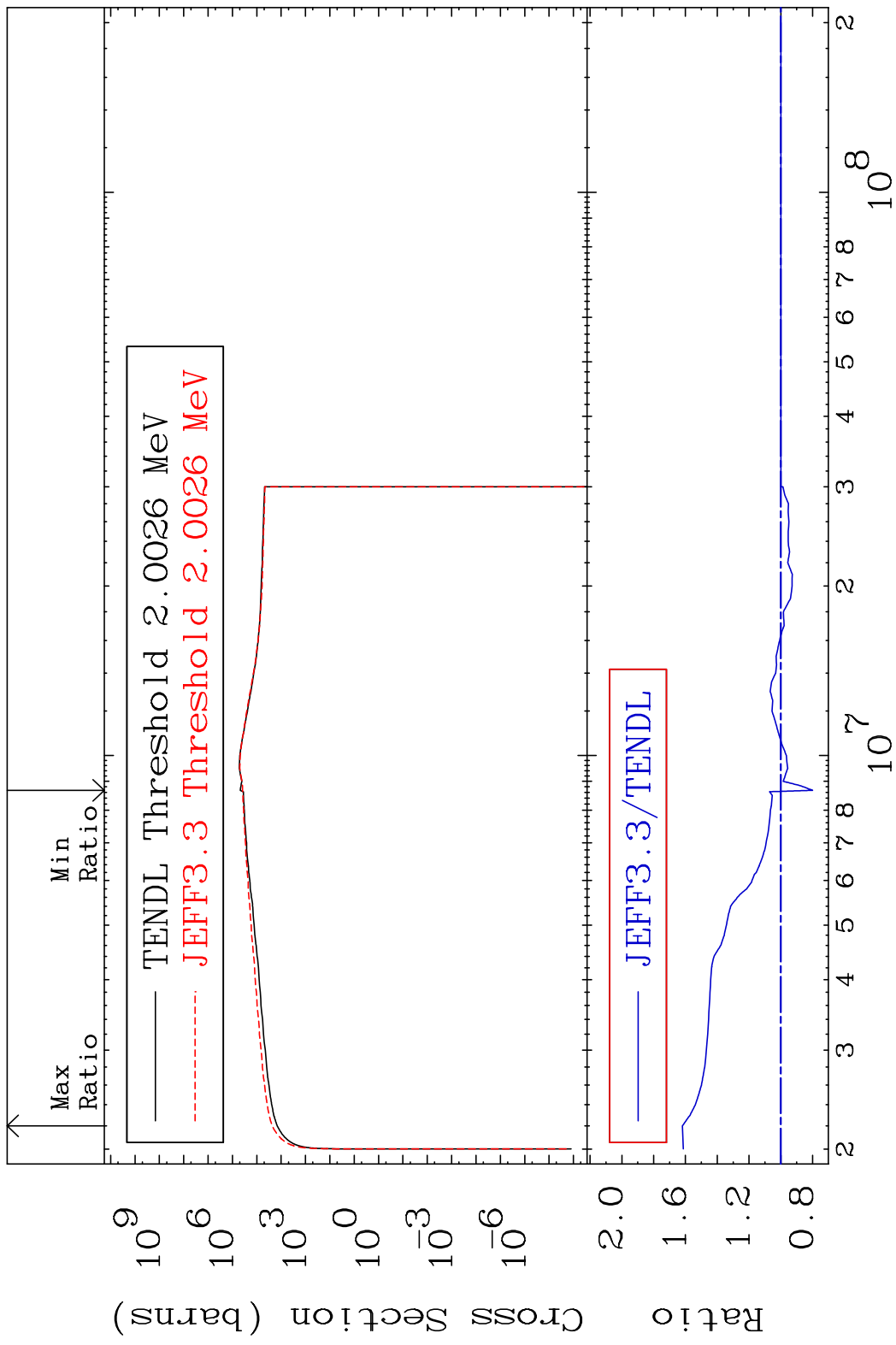
Incident Energy (eV)

14-Si-32

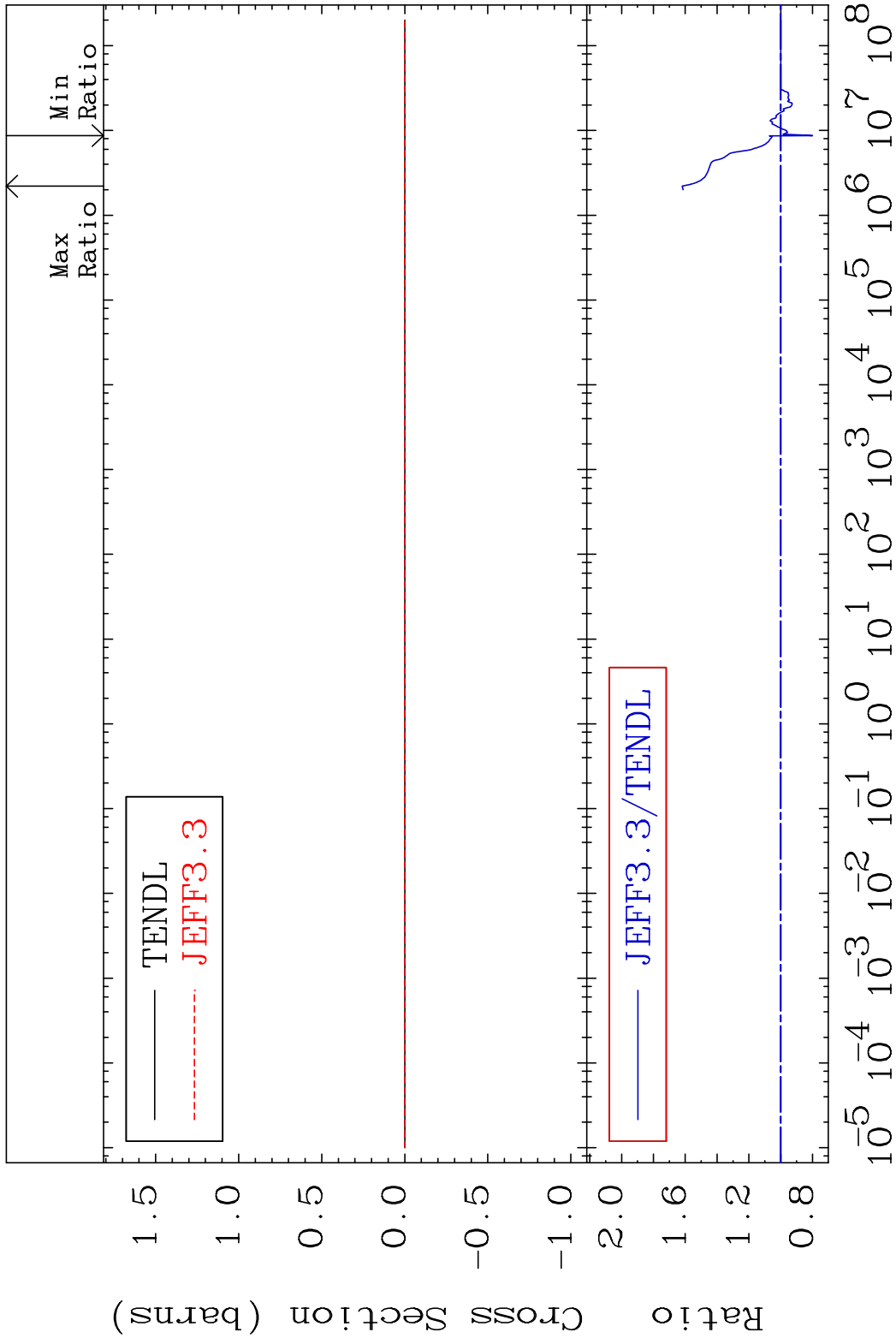
MAT 1437 Kerma non-elastic (all but mt2) 14-Si-32
 Cross Section -100.0 To 862.0 %



MAT 1437 Kerma inelastic (mt51-91) 14-Si-32
 Cross Section -19.98 To 61.95 %

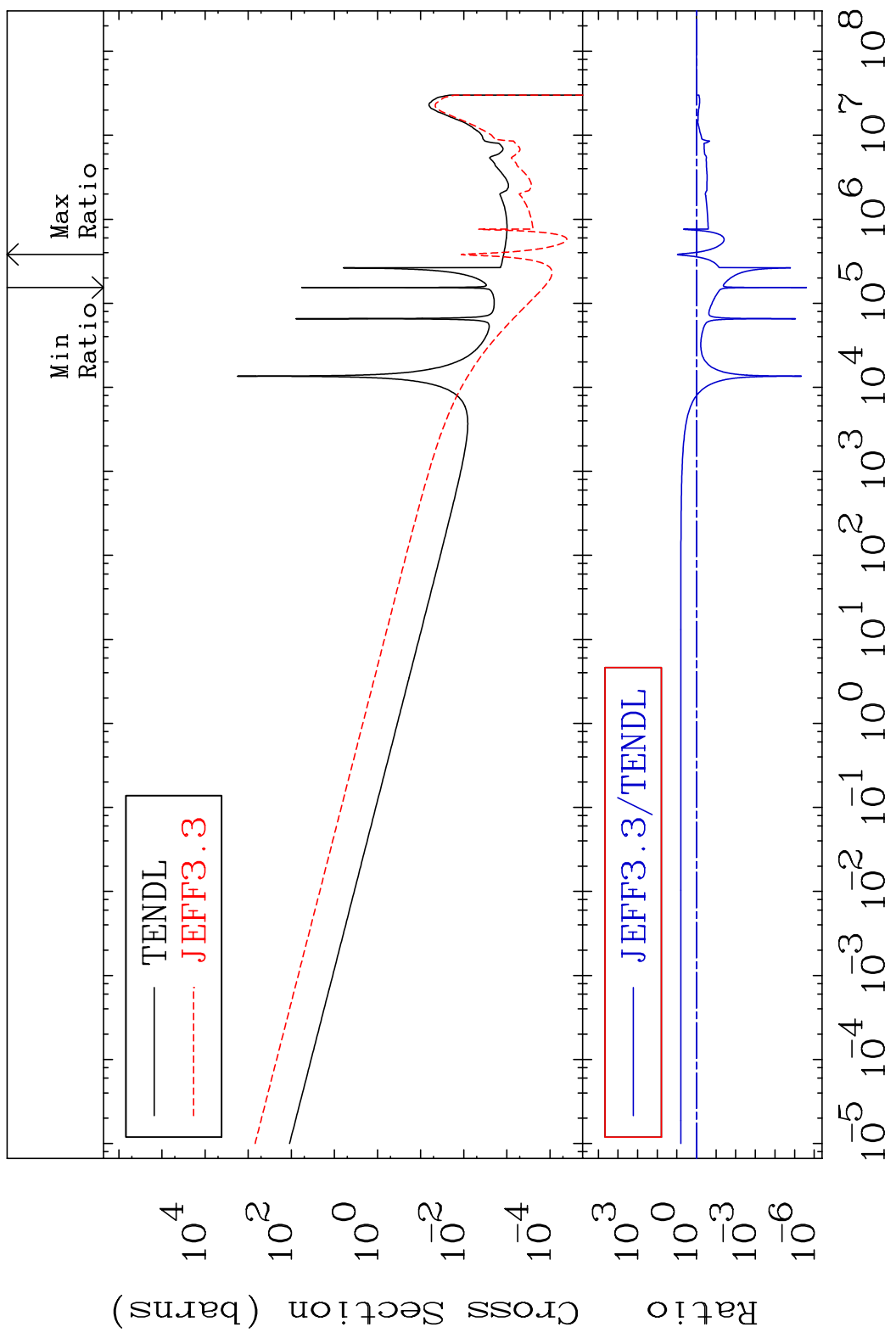


MAT 1437 Kerma fission (mt18 or mt19-20-21-38) 14-Si-32
 Cross Section -19.98 To 61.95 %



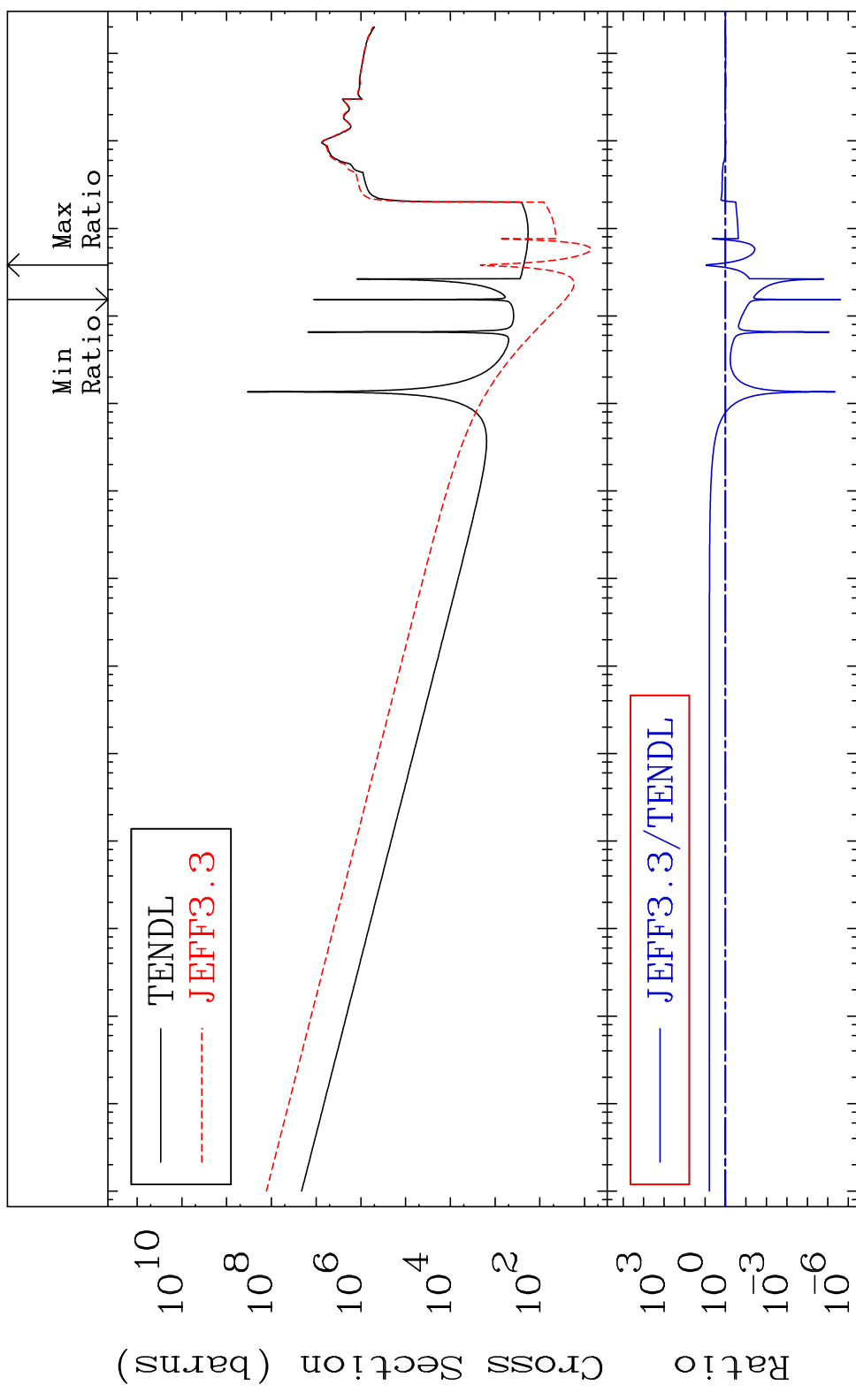
MAT 1437

Kerma capture (mt102) 14-Si-32
Cross Section -100.0 To 862.0 %

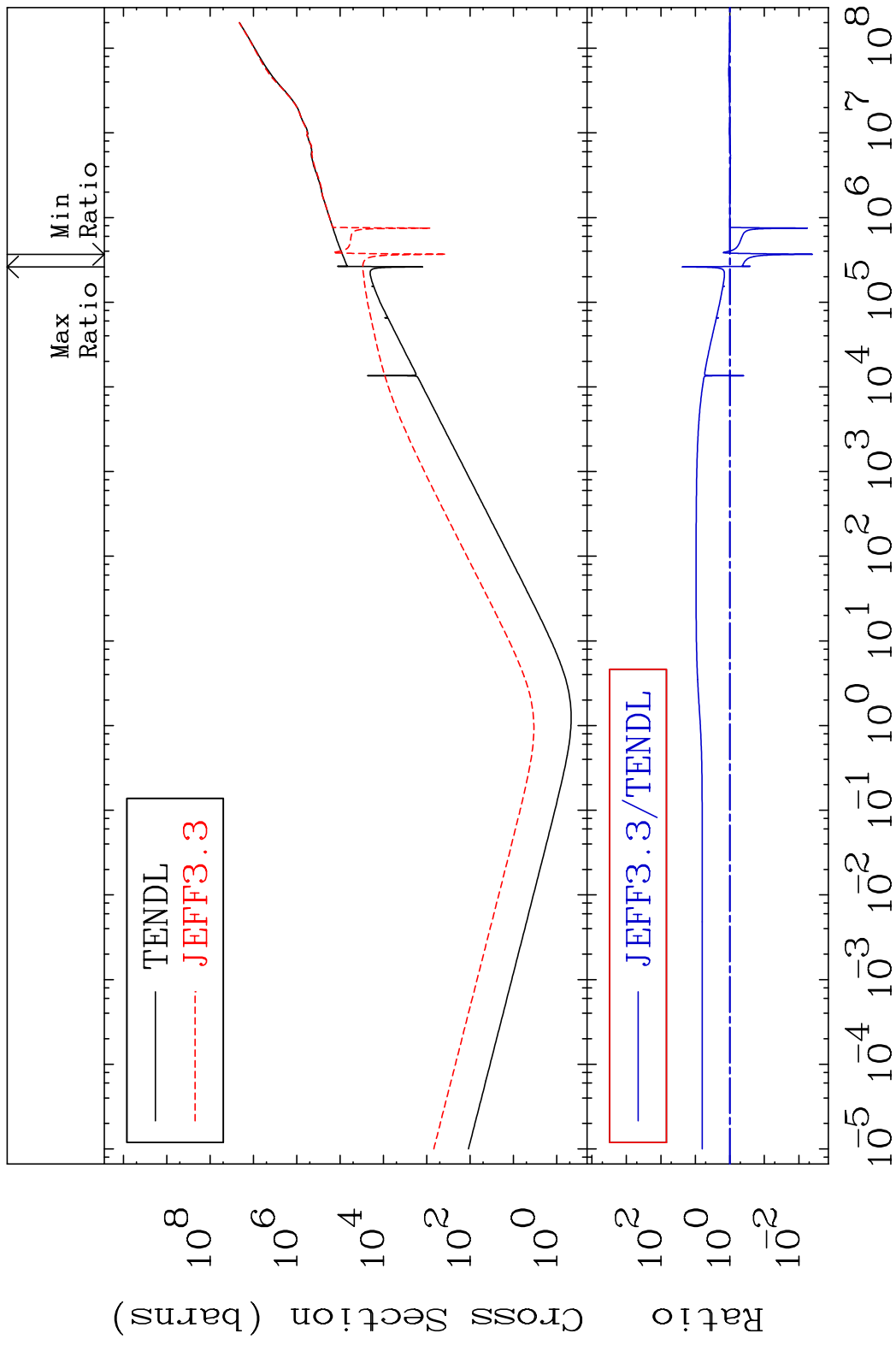


MAT 1437

Total photon (eV-barns) 14-Si-32
Cross Section -100.0 To 819.6 %



MAT 1437 Total kinematic kerma (high limit) 14-Si-32
 Cross Section -99.60 To 2282. %

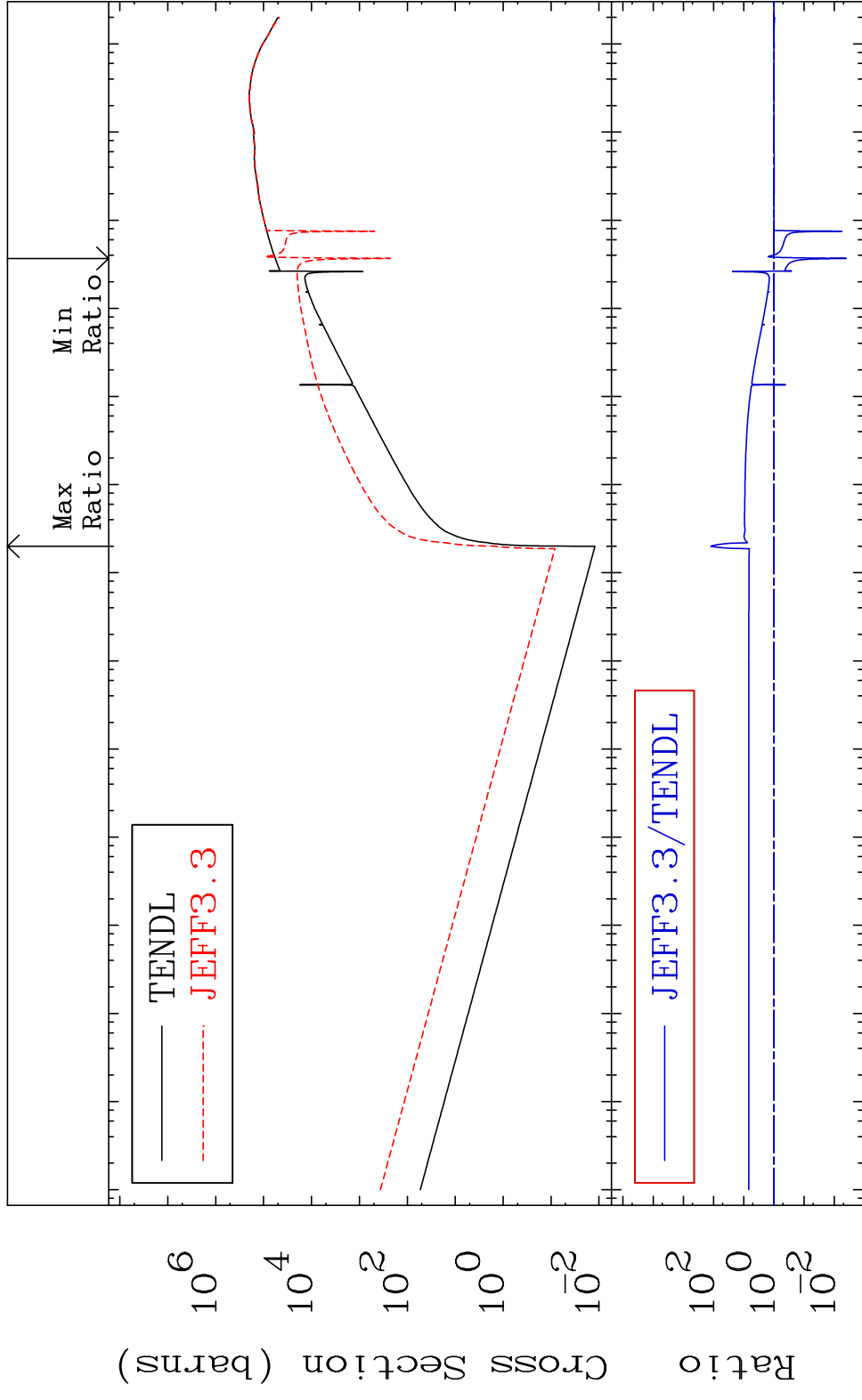


MAT 1437

Dpa total (eV-barns)

14-Si-32

Cross Section -99.60 To 9999. %



67

Incident Energy (eV)

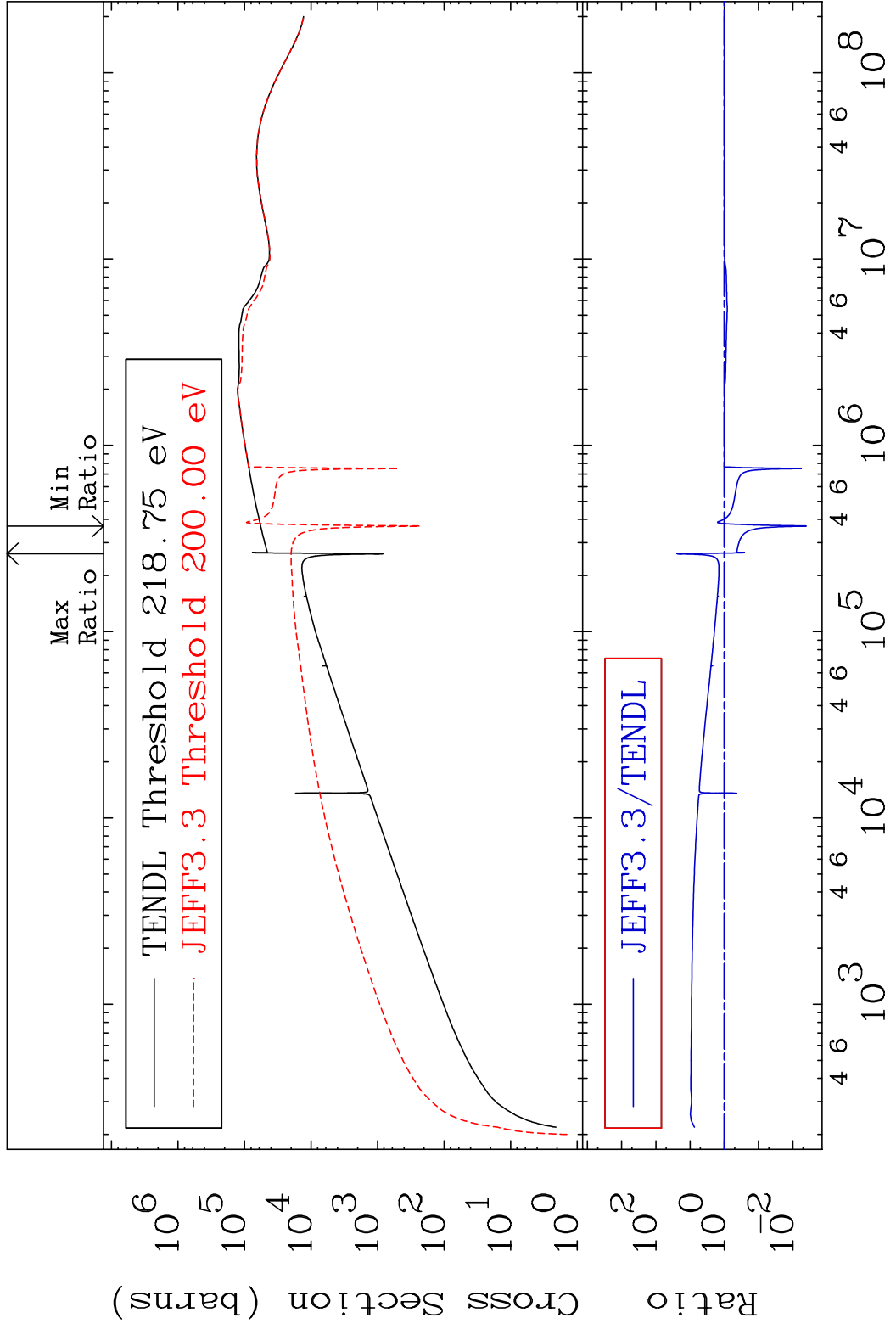
14-Si-32

MAT 1437

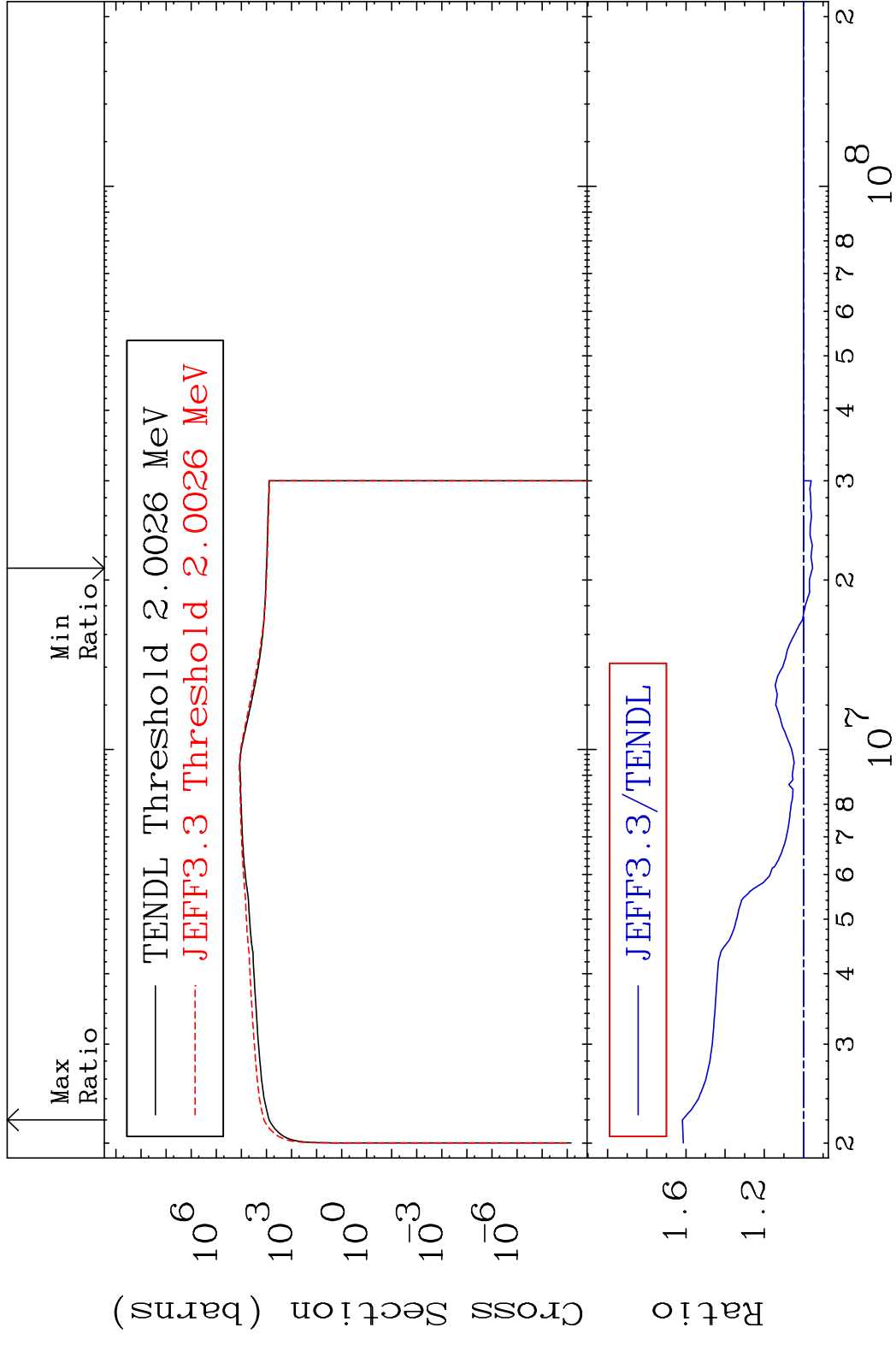
Dpa elastic (mt2)

14-Si-32

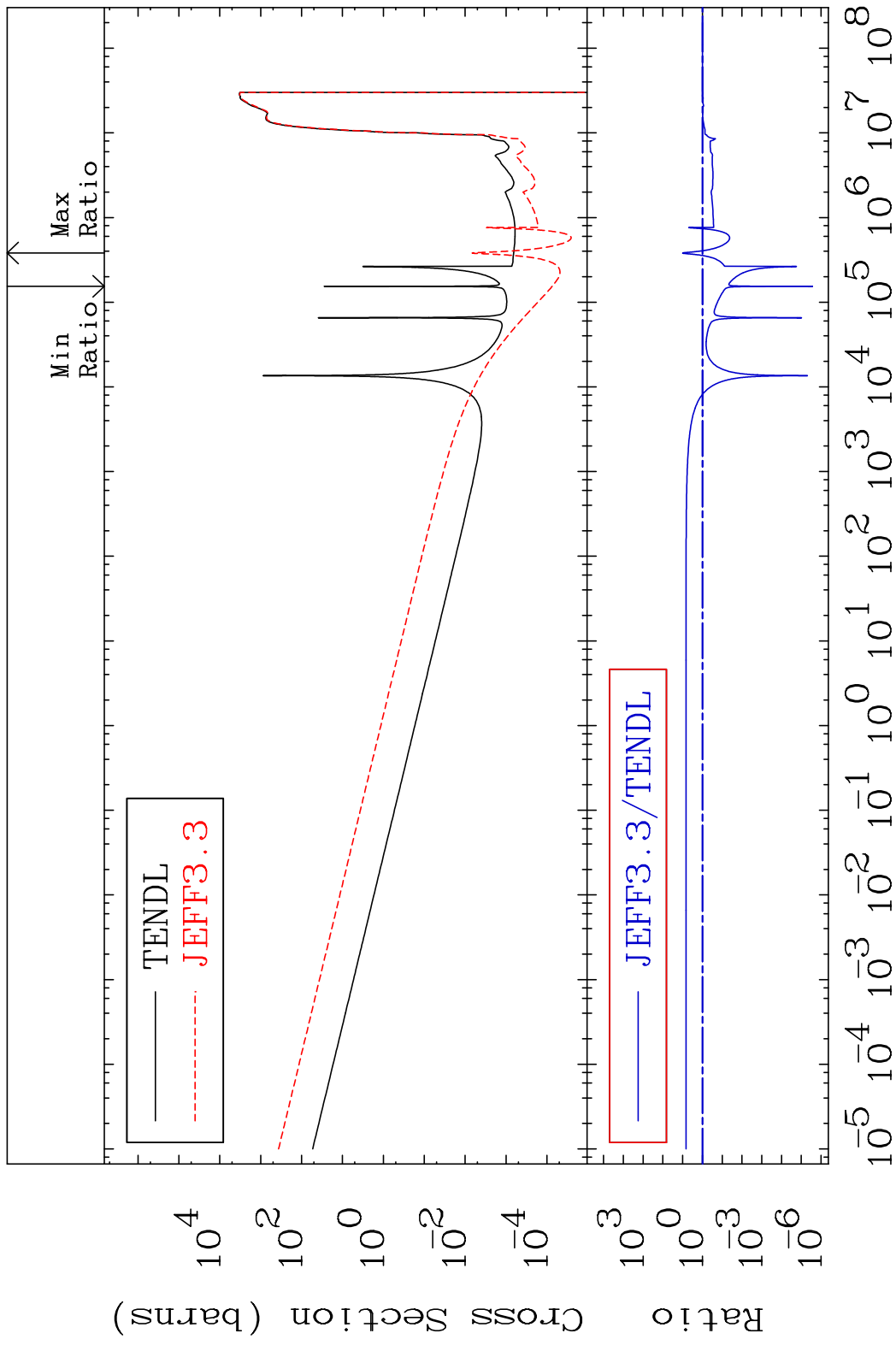
Cross Section -99.60 To 2284. %



MAT 1437 Dpa inelastic (mt51-91) 14-Si-32
 Cross Section -4.597 To 61.82 %



MAT 1437 Dpa disappearance (mt102 -120) 14-Si-32
 Cross Section -100.0 To 934.3 %



70 Incident Energy (eV) 14-Si-32