

Program Complot
(Version 2021-1)

by

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Press Mouse Button to Start

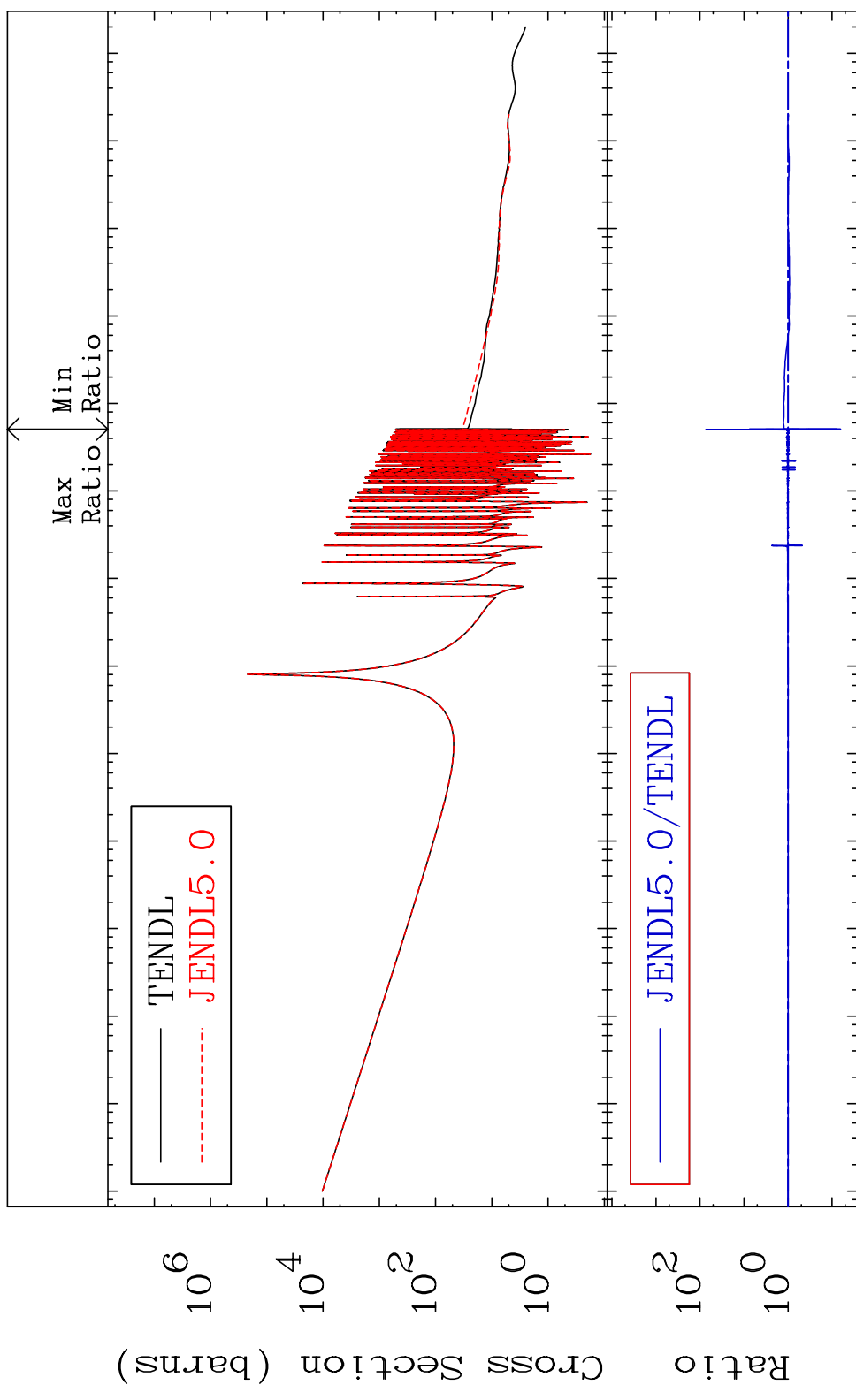
MAT 6249

Total

62-Sm-152

Cross Section

-93.55 To 7285. %



1

Incident Energy (eV)

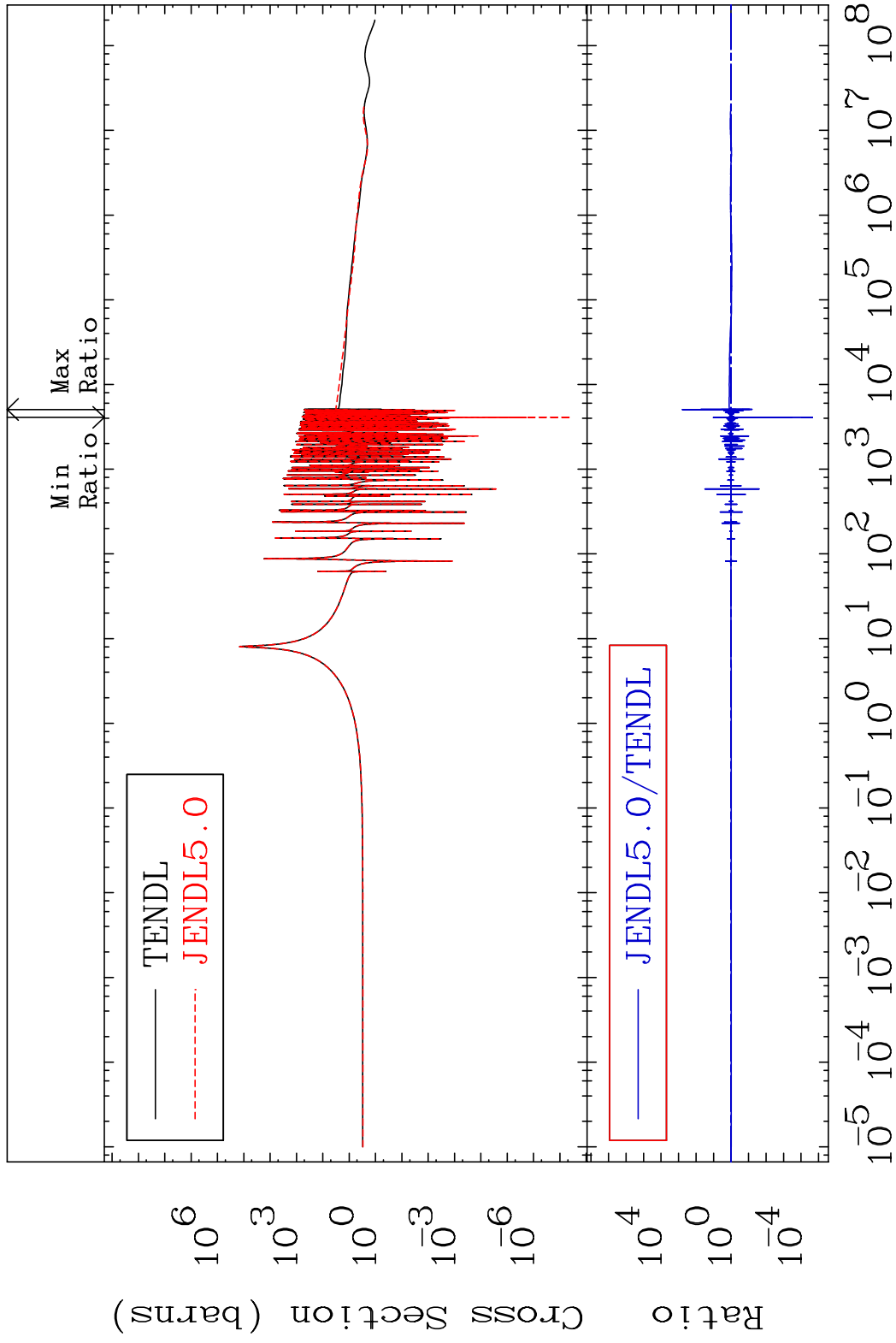
62-Sm-152

MAT 6249

Elastic

62-Sm-152

Cross Section -100.0 To 9999. %

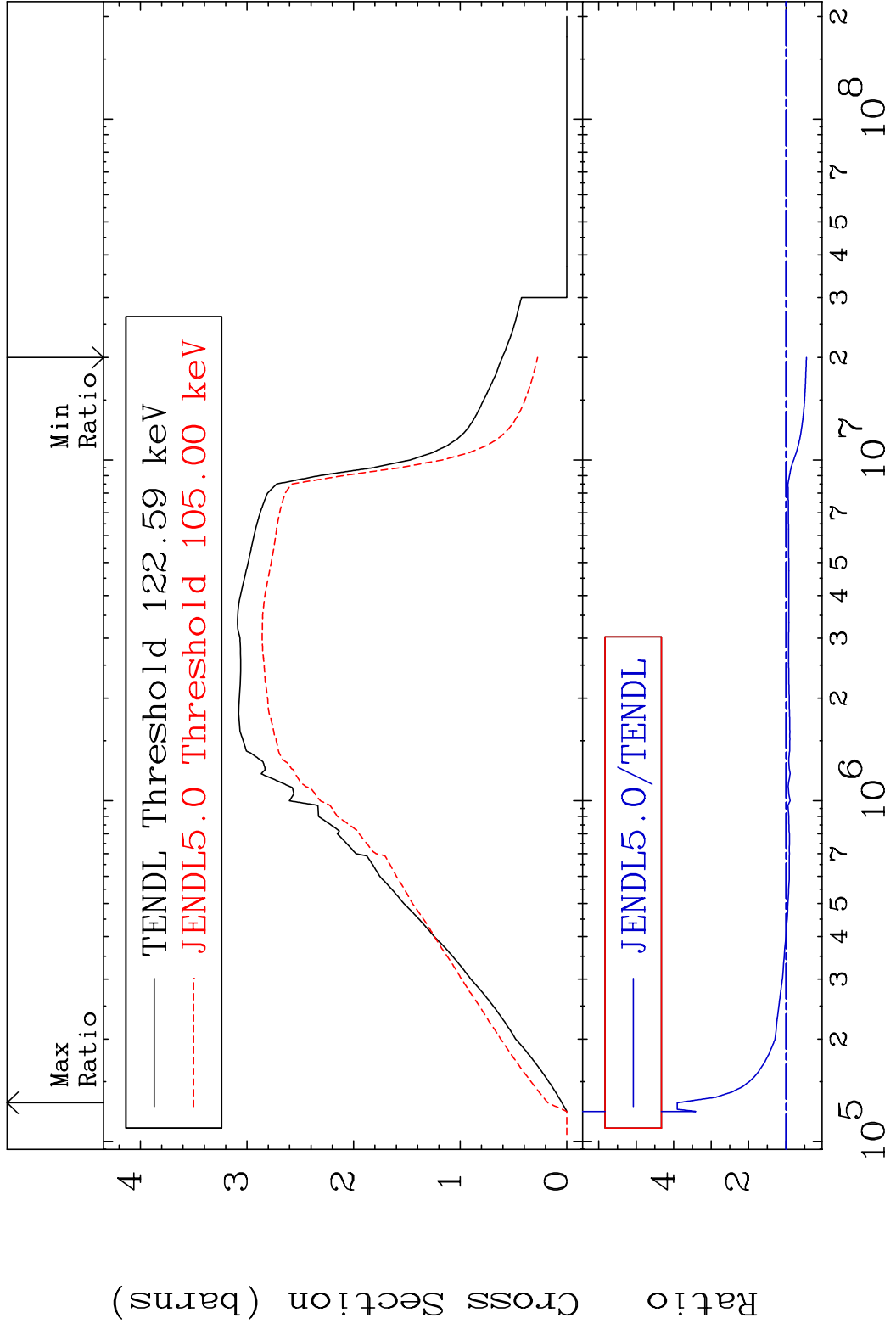


2

Incident Energy (eV)

62-Sm-152

MAT 6249 Inelastic 62-Sm-152
 Cross Section -54.53 To 290.5 %



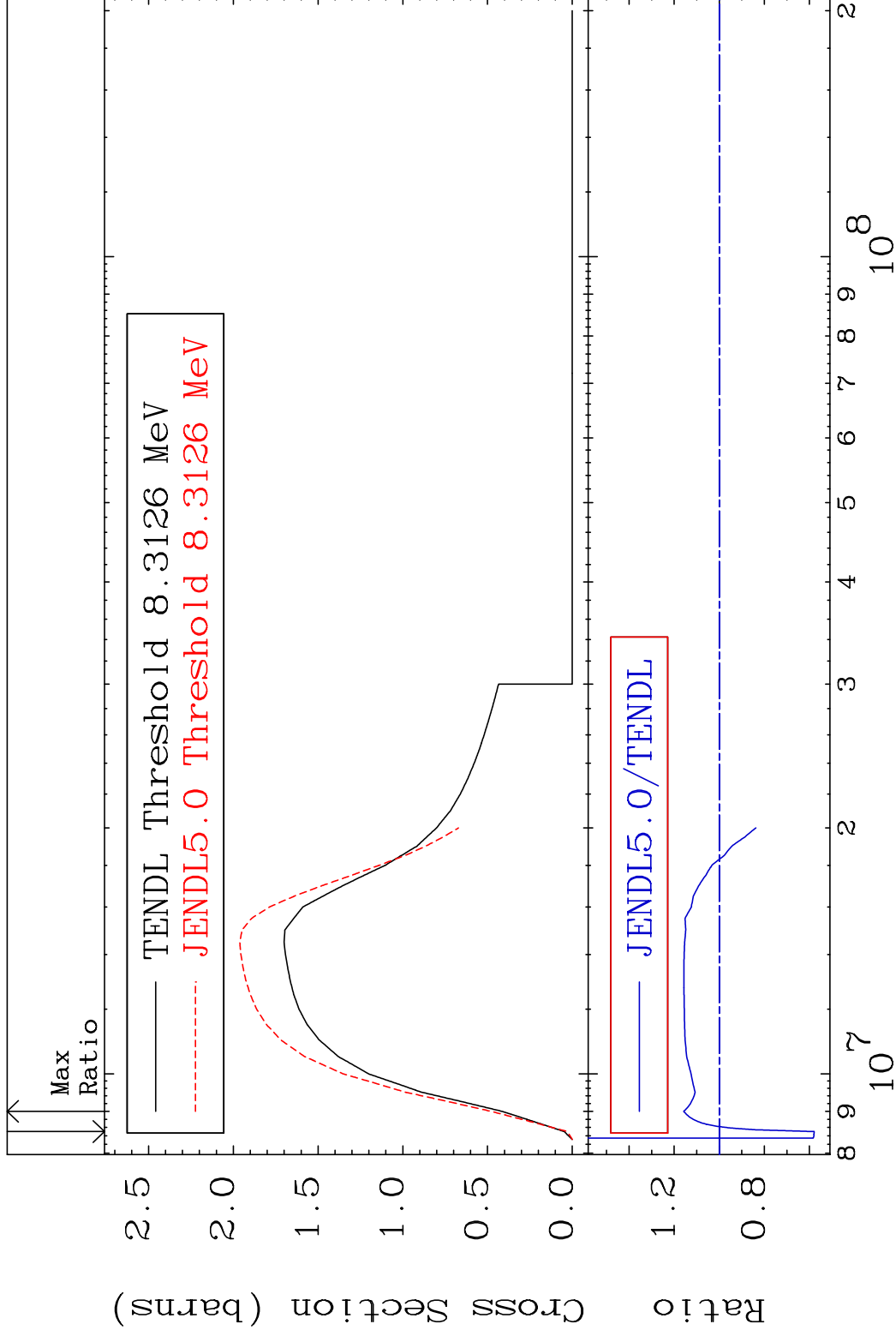
3 Incident Energy (eV) 62-Sm-152

MAT 6249

(n,2n)

62-Sm-152

Cross Section -42.06 To 15.79 %



4

Incident Energy (eV)

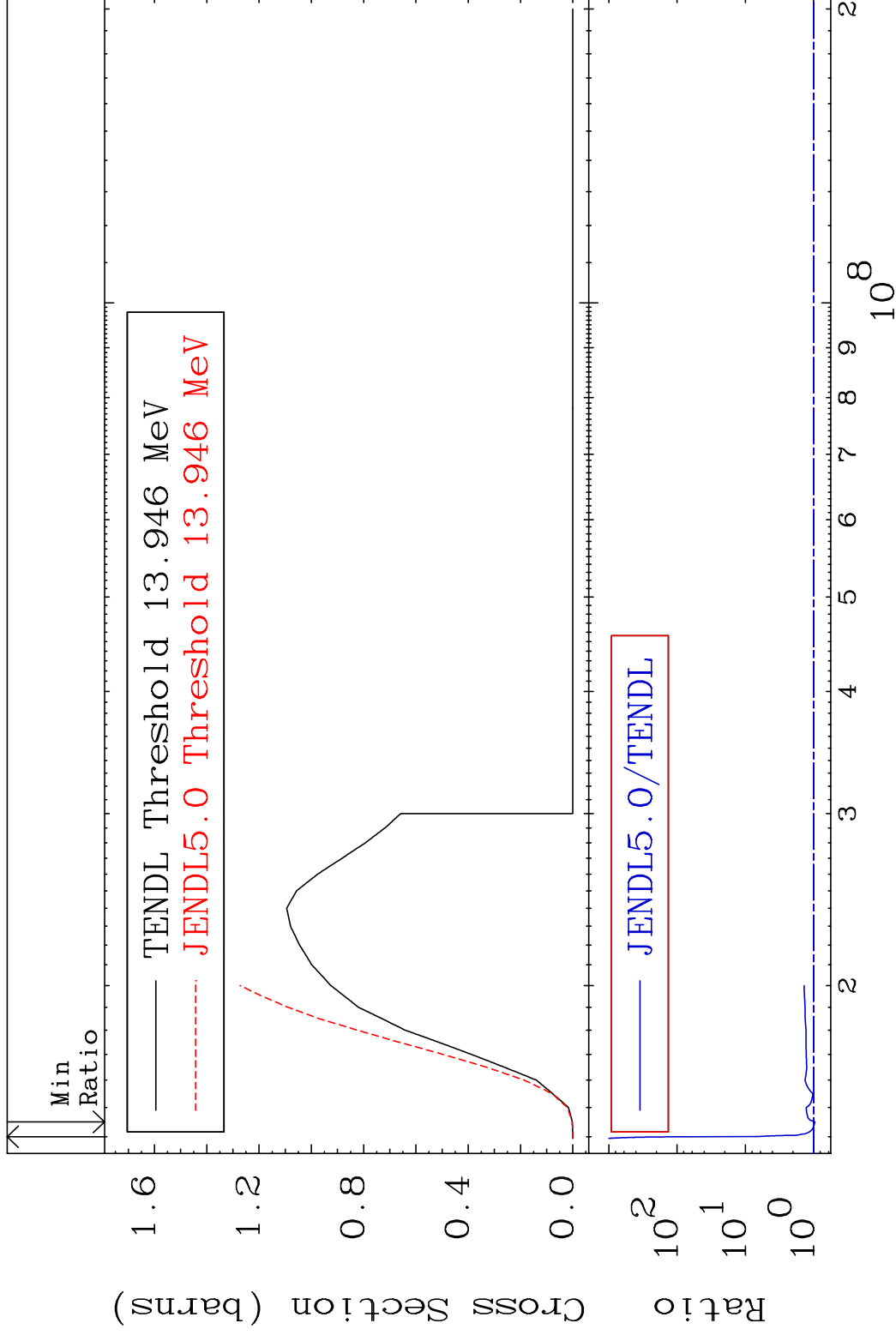
62-Sm-152

MAT 6249

(n,3n)

62-Sm-152

Cross Section -4.323 To 7731. %



5

Incident Energy (eV)

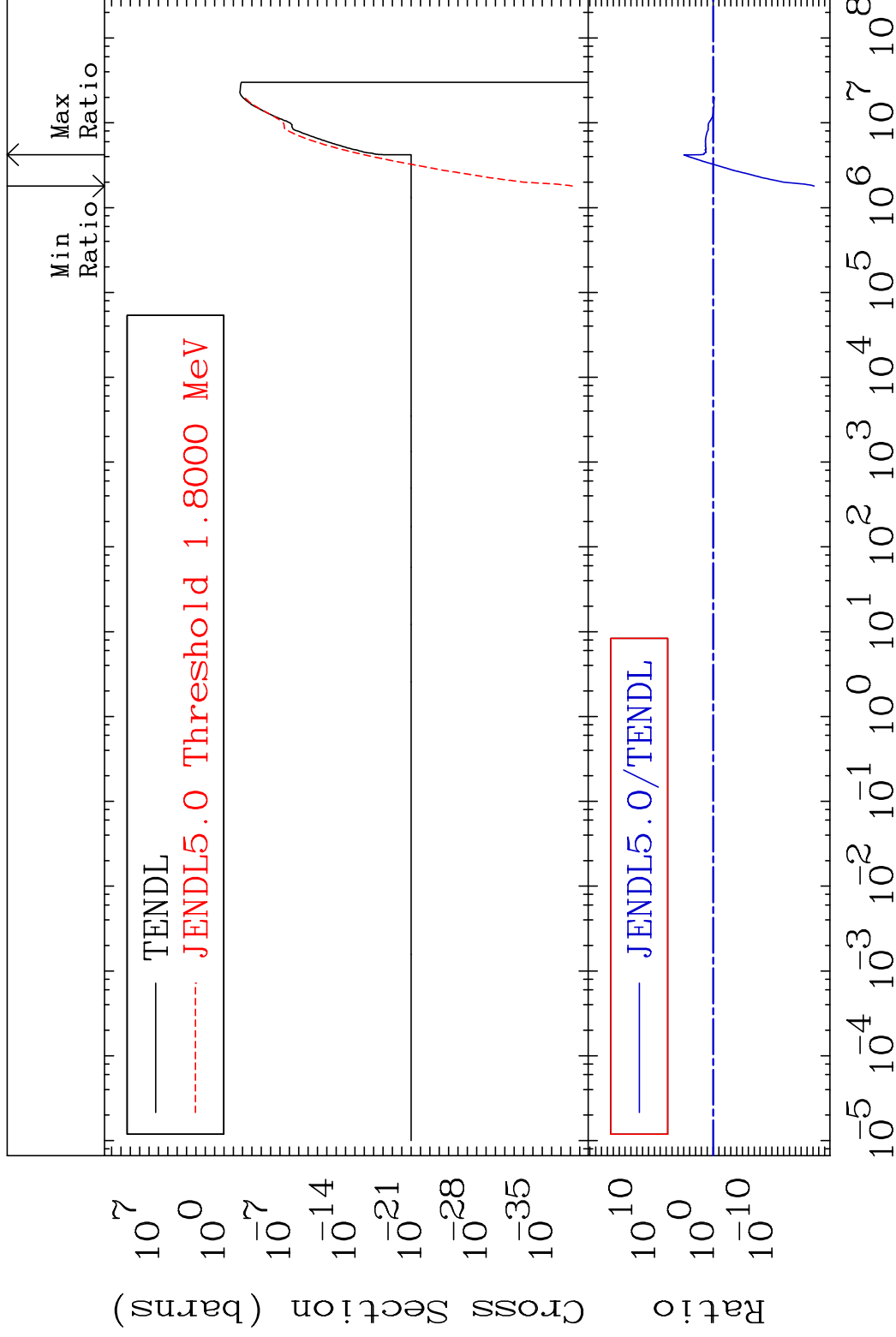
62-Sm-152

MAT 6249

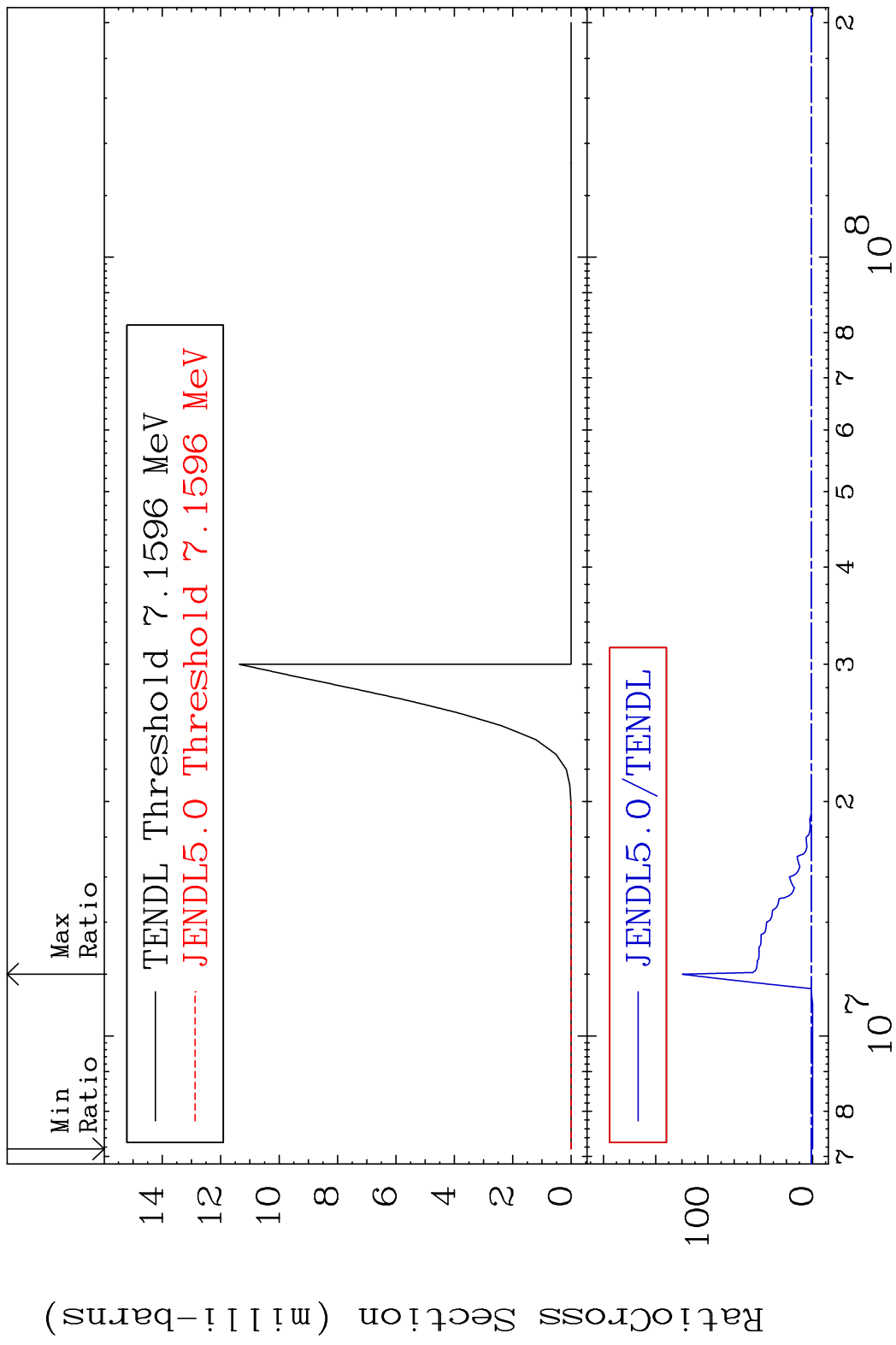
(n, n') α

62-Sm-152

Cross Section -100.0 To 9999. %



MAT 6249 (n,2n) α 62-Sm-152
 Cross Section -100.0 To 9999. %



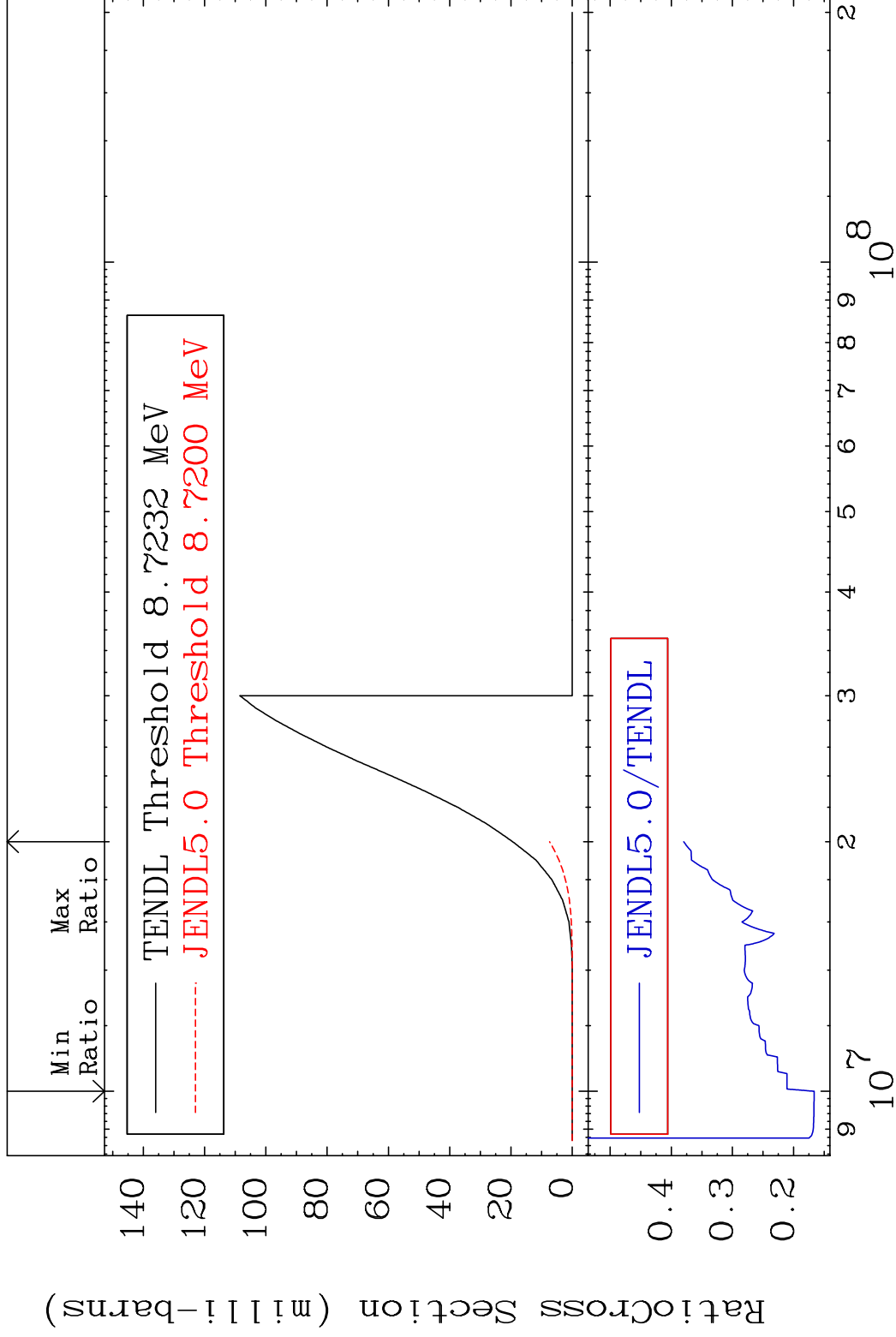
7 8 7 8 10 7 8 10 8 2 62-Sm-152

MAT 6249

(n, n') p

62-Sm-152

Cross Section -83.35 To -62.02%



8

Incident Energy (eV)

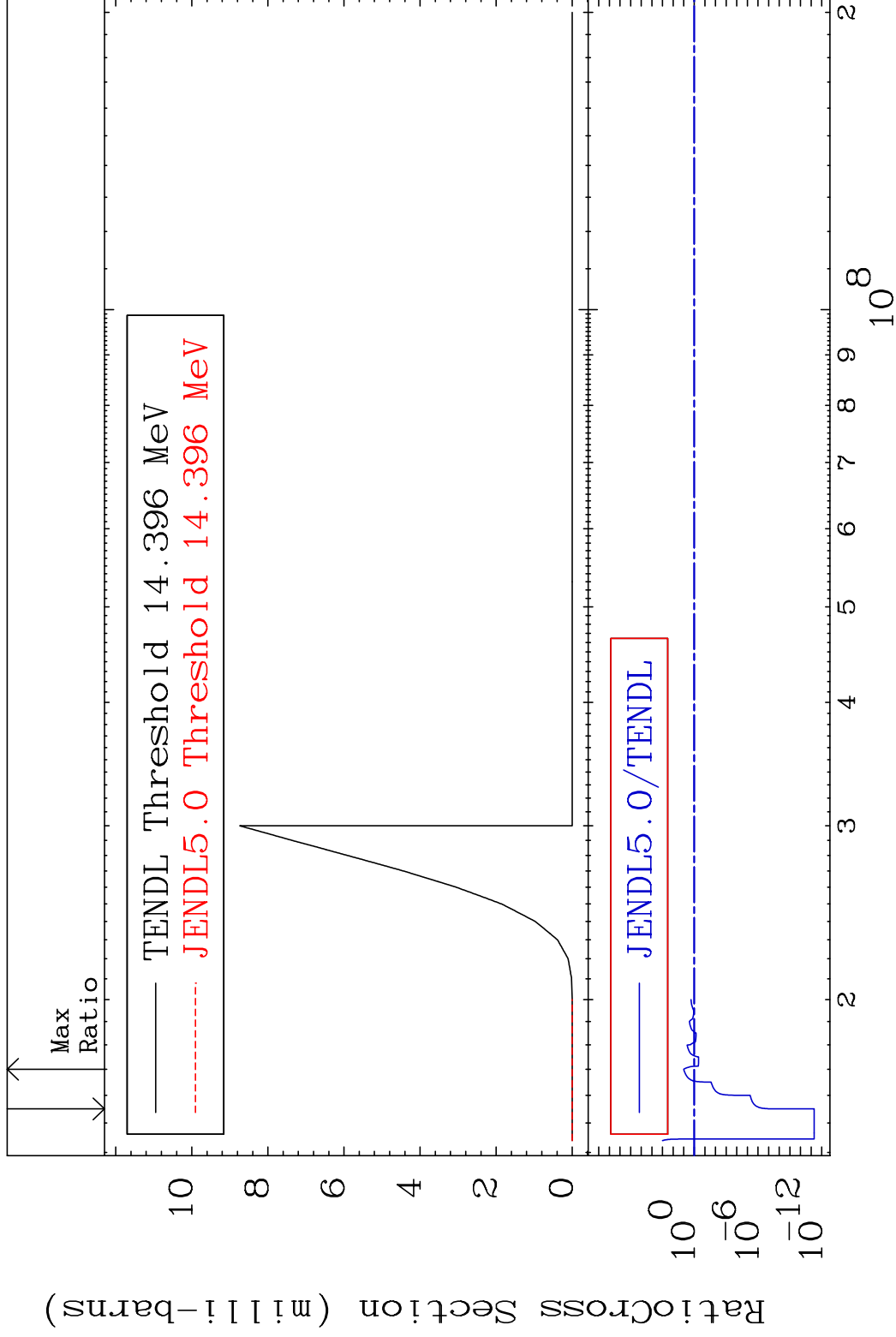
62-Sm-152

MAT 6249

(n, n') d

62-Sm-152

Cross Section -100.0 To 907.0 %

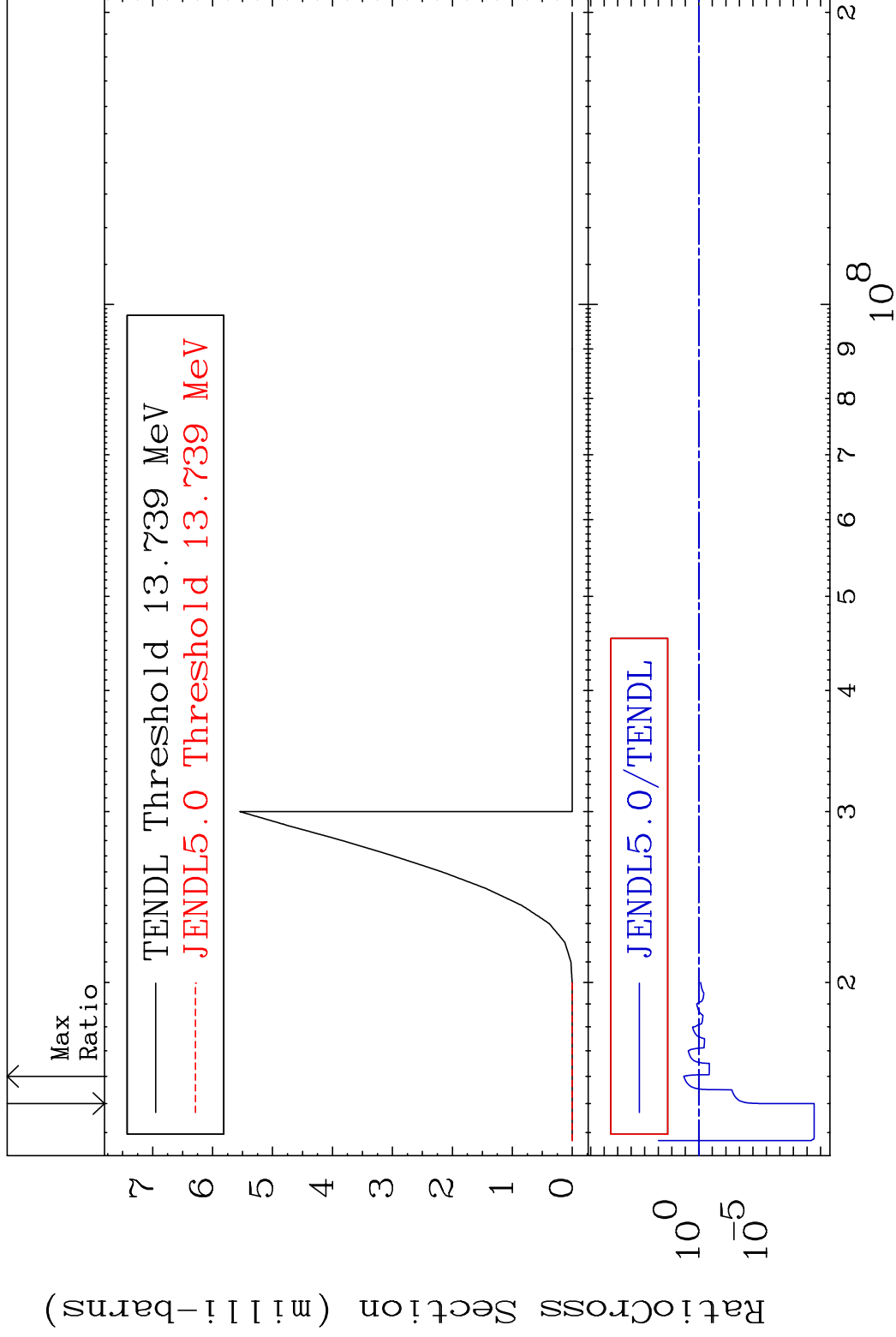


MAT 6249

(n, n') t

62-Sm-152

Cross Section -100.0 To 1217. %

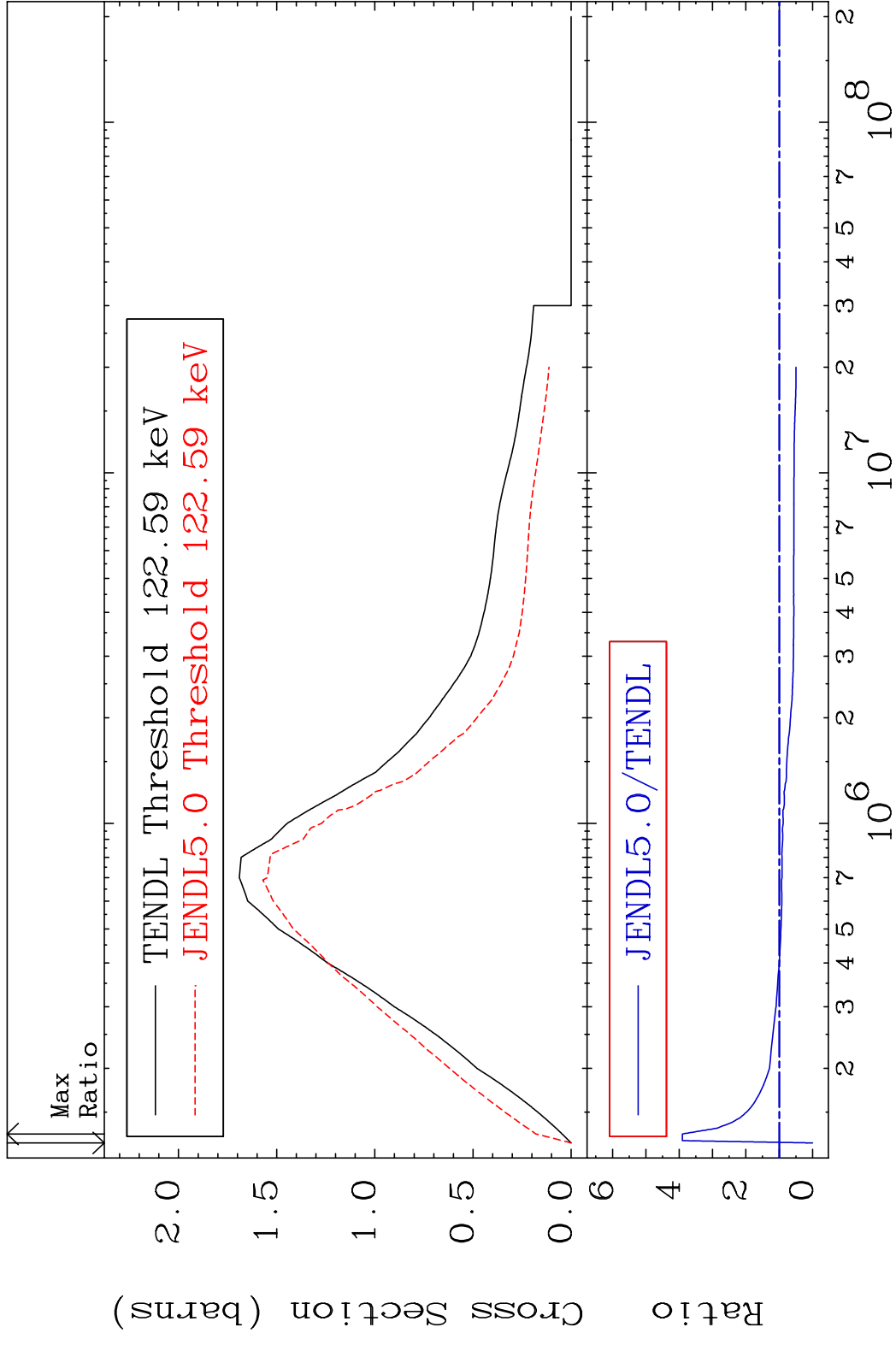


10

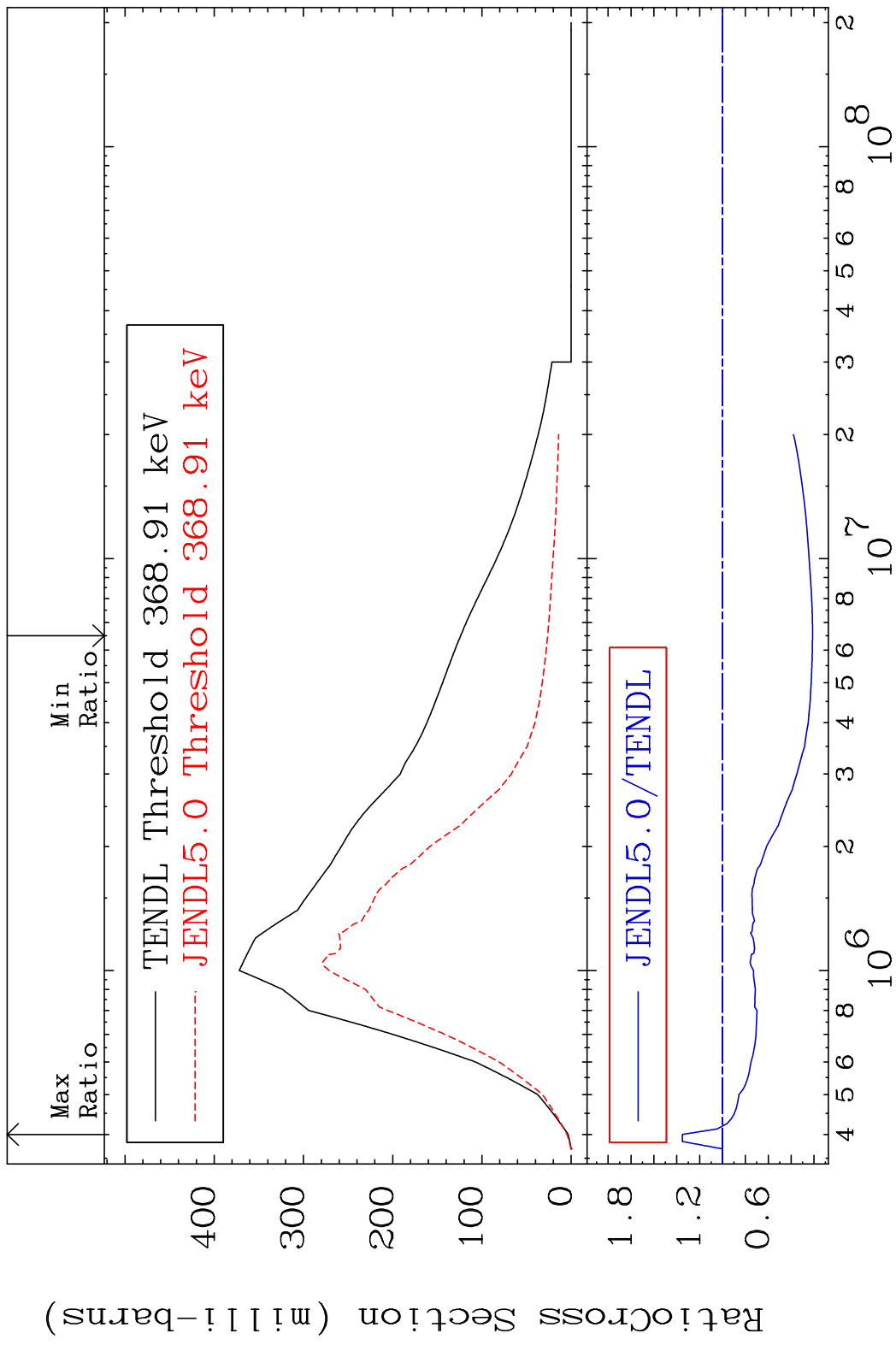
Incident Energy (eV)

62-Sm-152

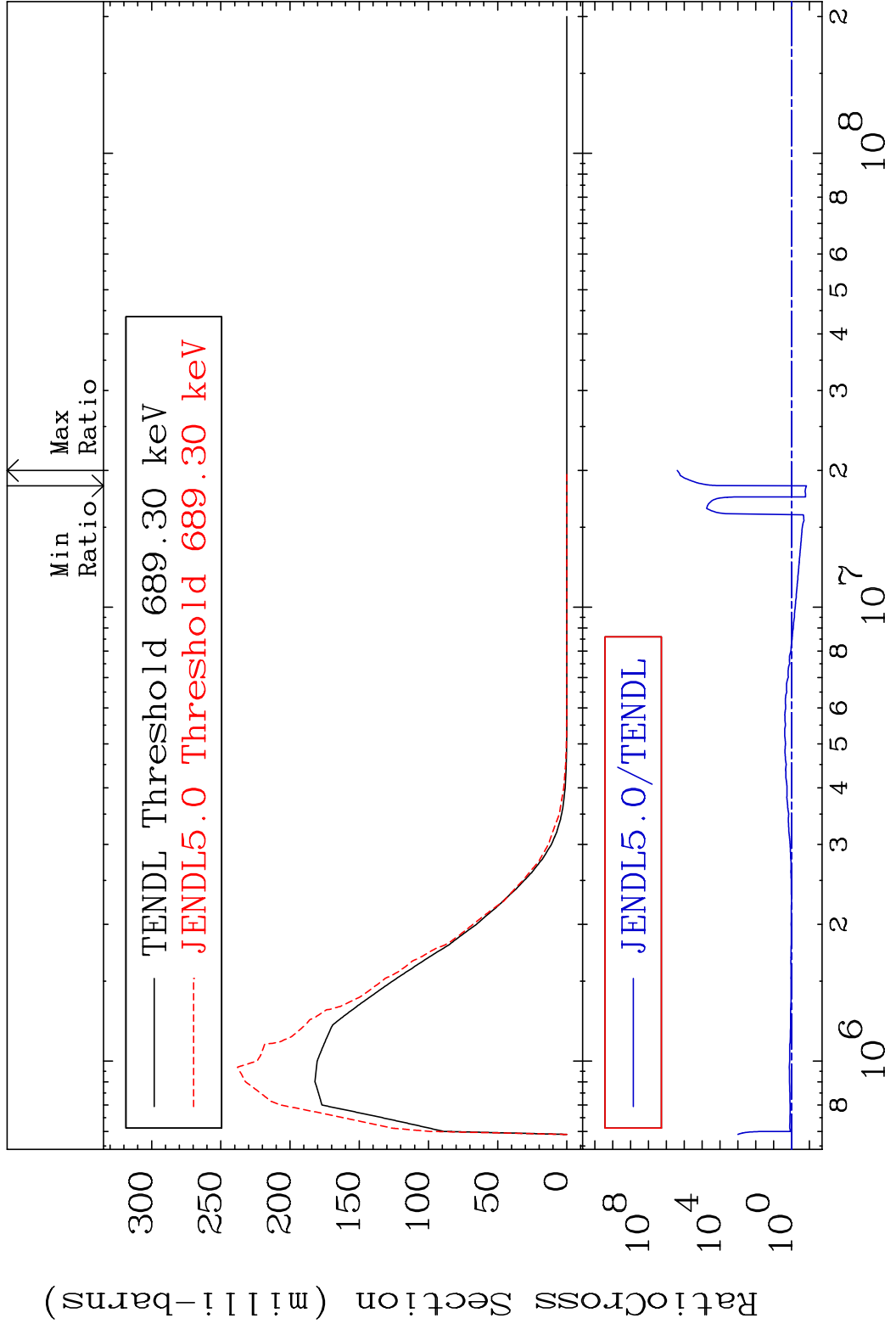
MAT 6249 MT= 51 (n, n') Level 62-Sm-152
 Cross Section -100.0 To 290.5 %



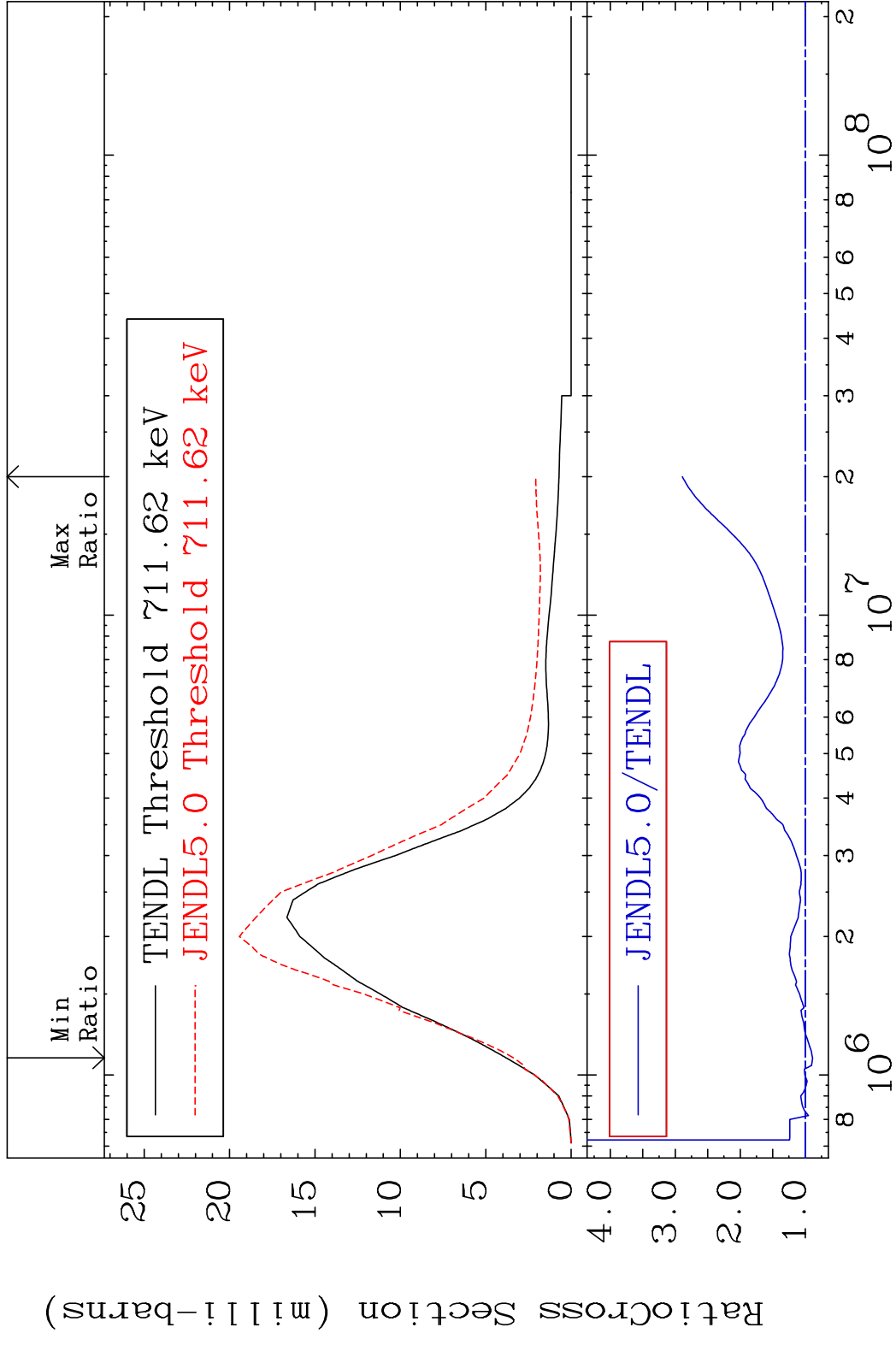
MAT 6249 MT= 52 (n, n') Level 62-Sm-152
 Cross Section -78.72 To 35.11 %



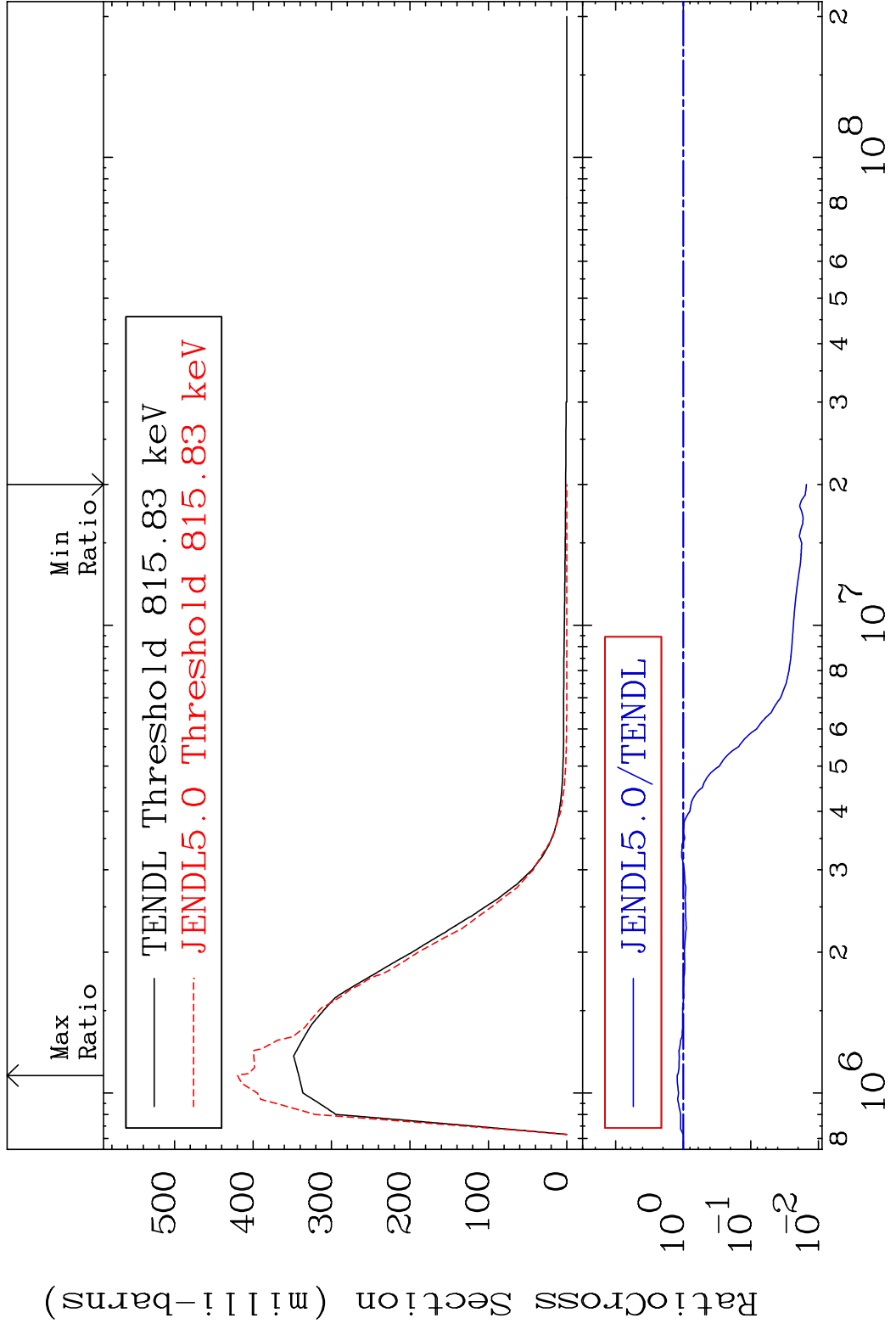
MAT 6249 MT= 53 (n, n') Level 62-Sm-152
 Cross Section -85.42 To 9999. %



MAT 6249 MT= 54 (n, n') Level 62-Sm-152
 Cross Section -11.27 To 189.1 %



MAT 6249 MT= 55 (n, n') Level 62-Sm-152
 Cross Section -98.49 To 22.85 %

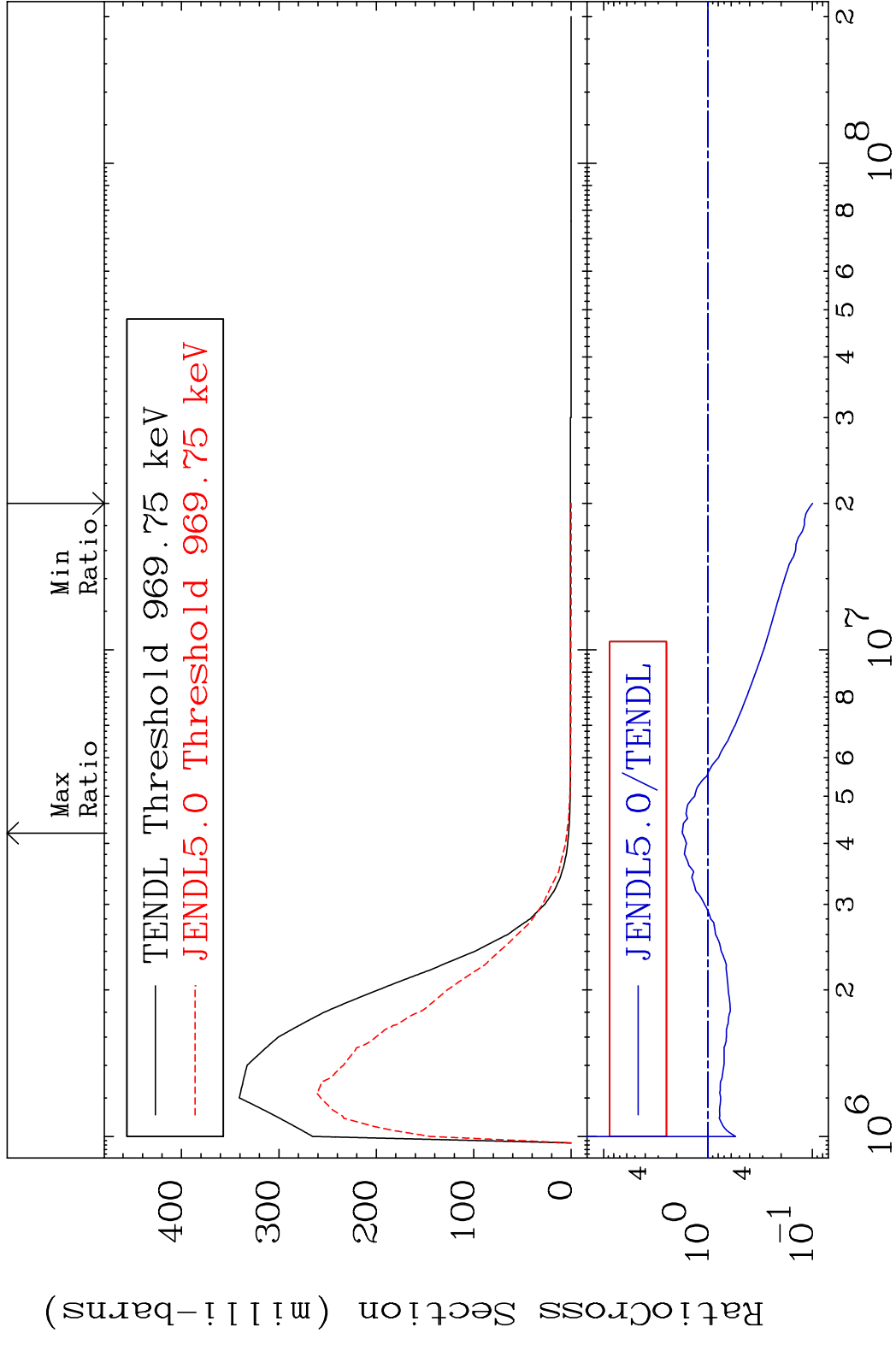


MAT 6249

MT= 56 (n, n') Level

62-Sm-152

Cross Section -90.02 To 76.14 %

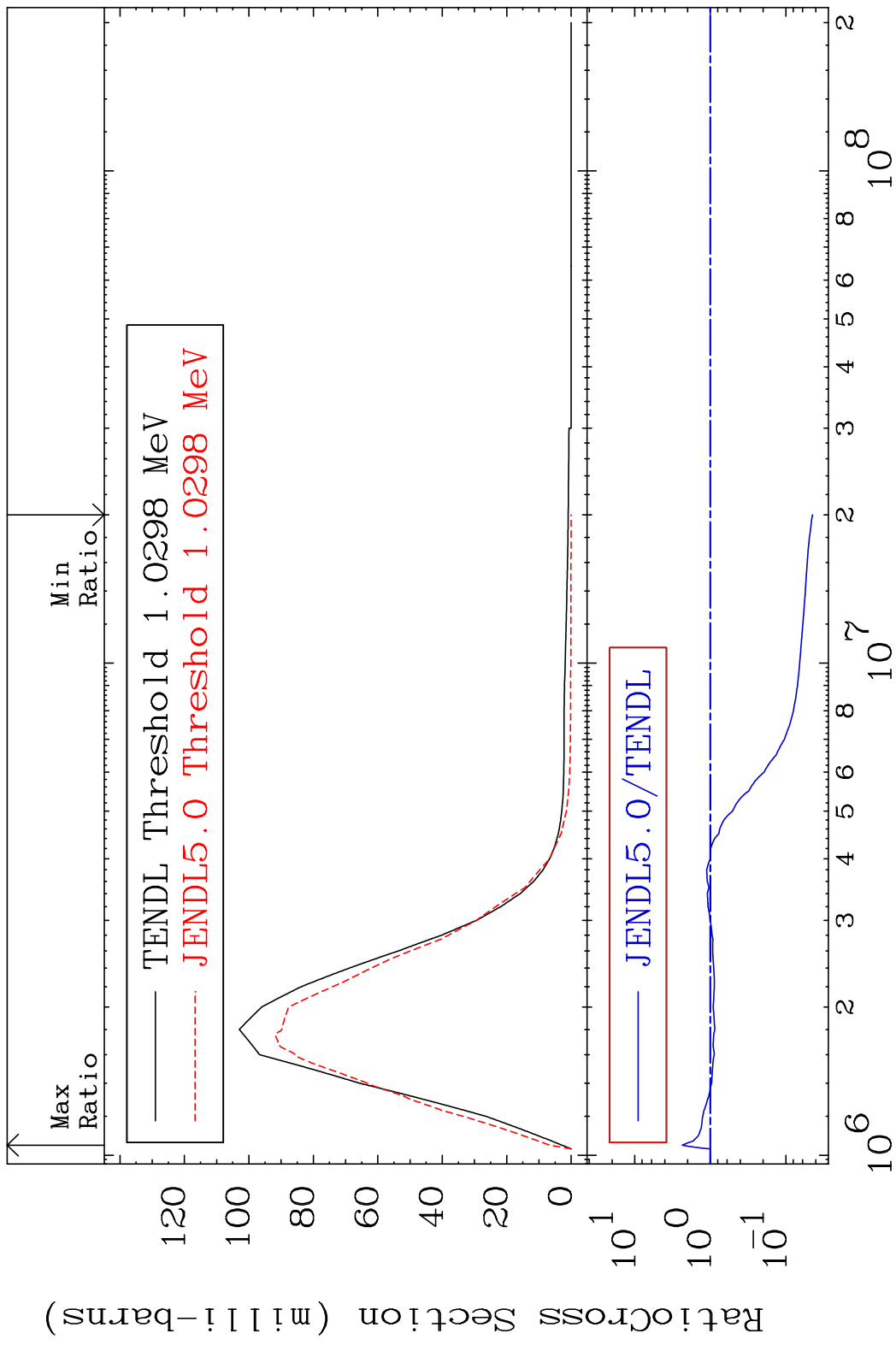


16

Incident Energy (eV)

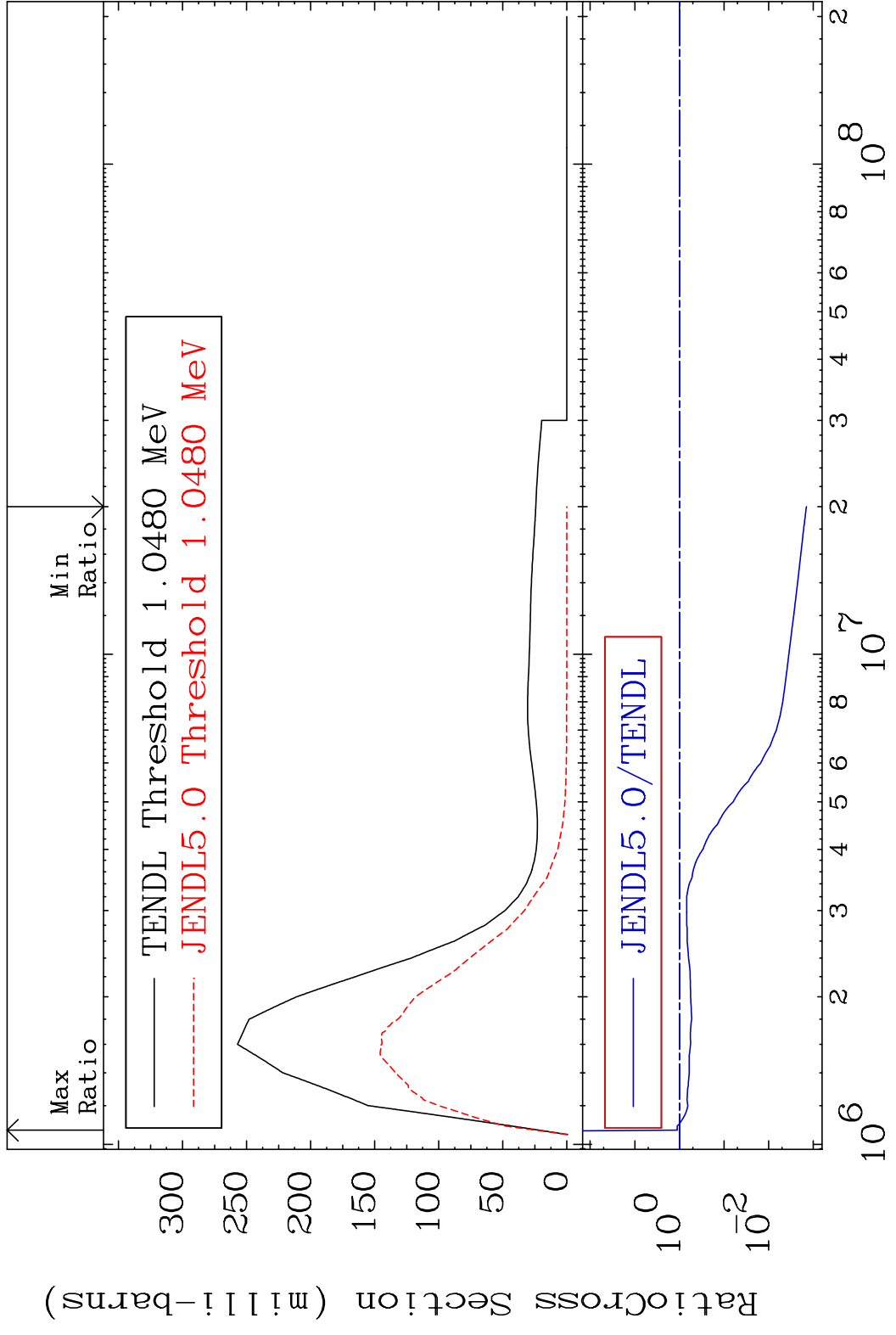
62-Sm-152

MAT 6249 MT= 57 (n, n') Level 62-Sm-152
 Cross Section -95.57 To 134.5 %

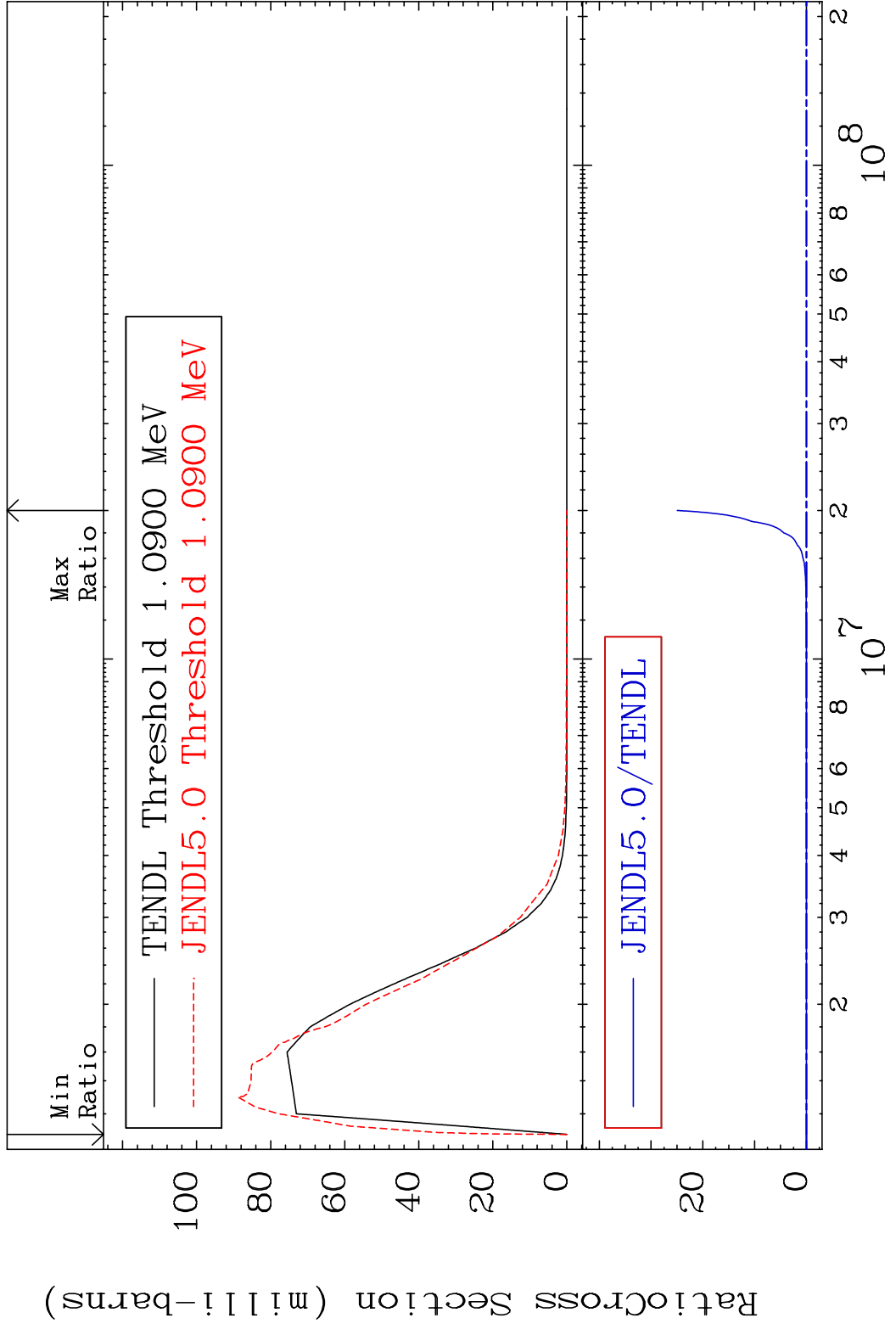


17 Incident Energy (eV) 62-Sm-152

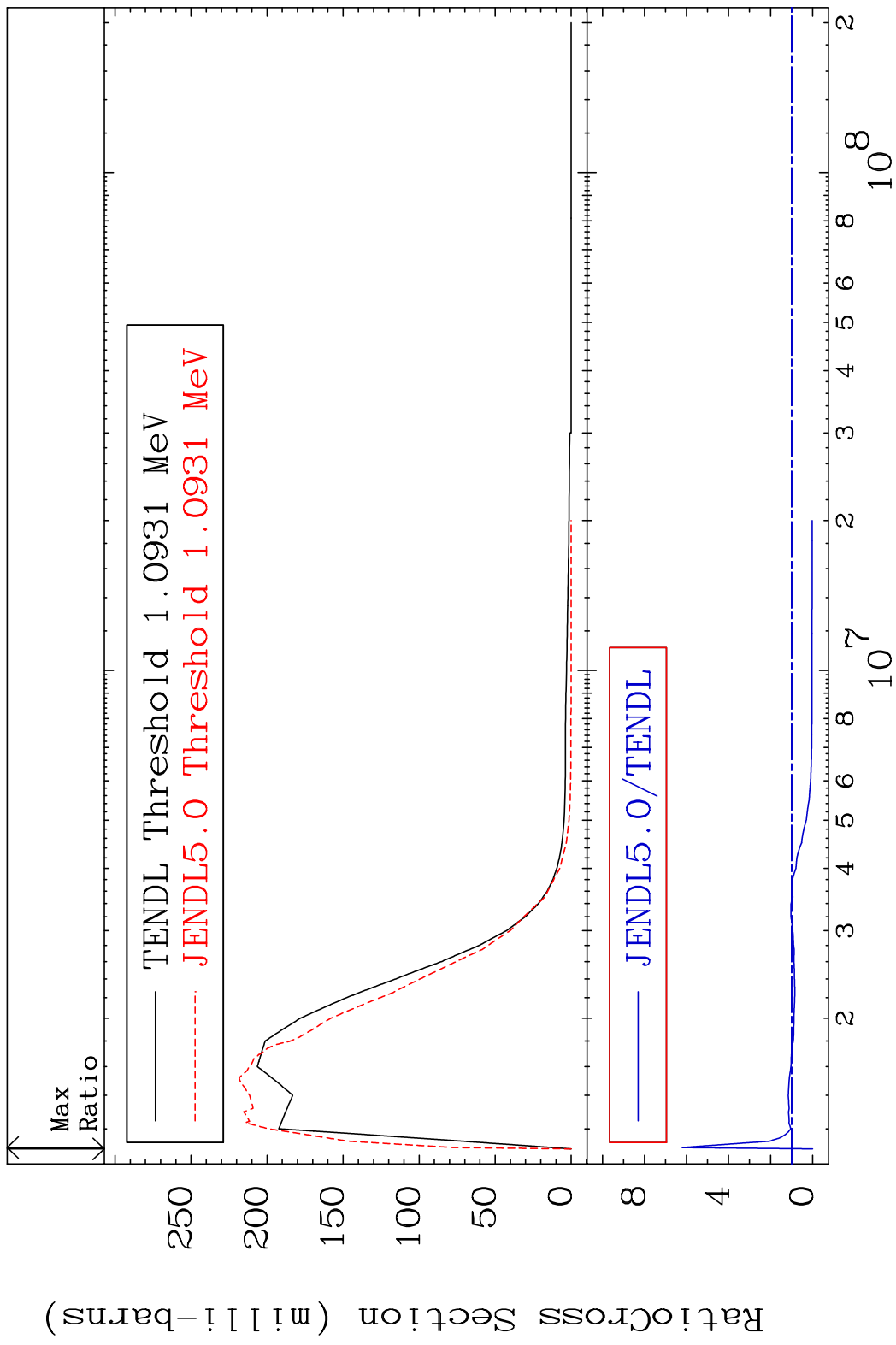
MAT 6249 MT= 58 (n, n') Level 62-Sm-152
 Cross Section -99.86 To 12.12 %



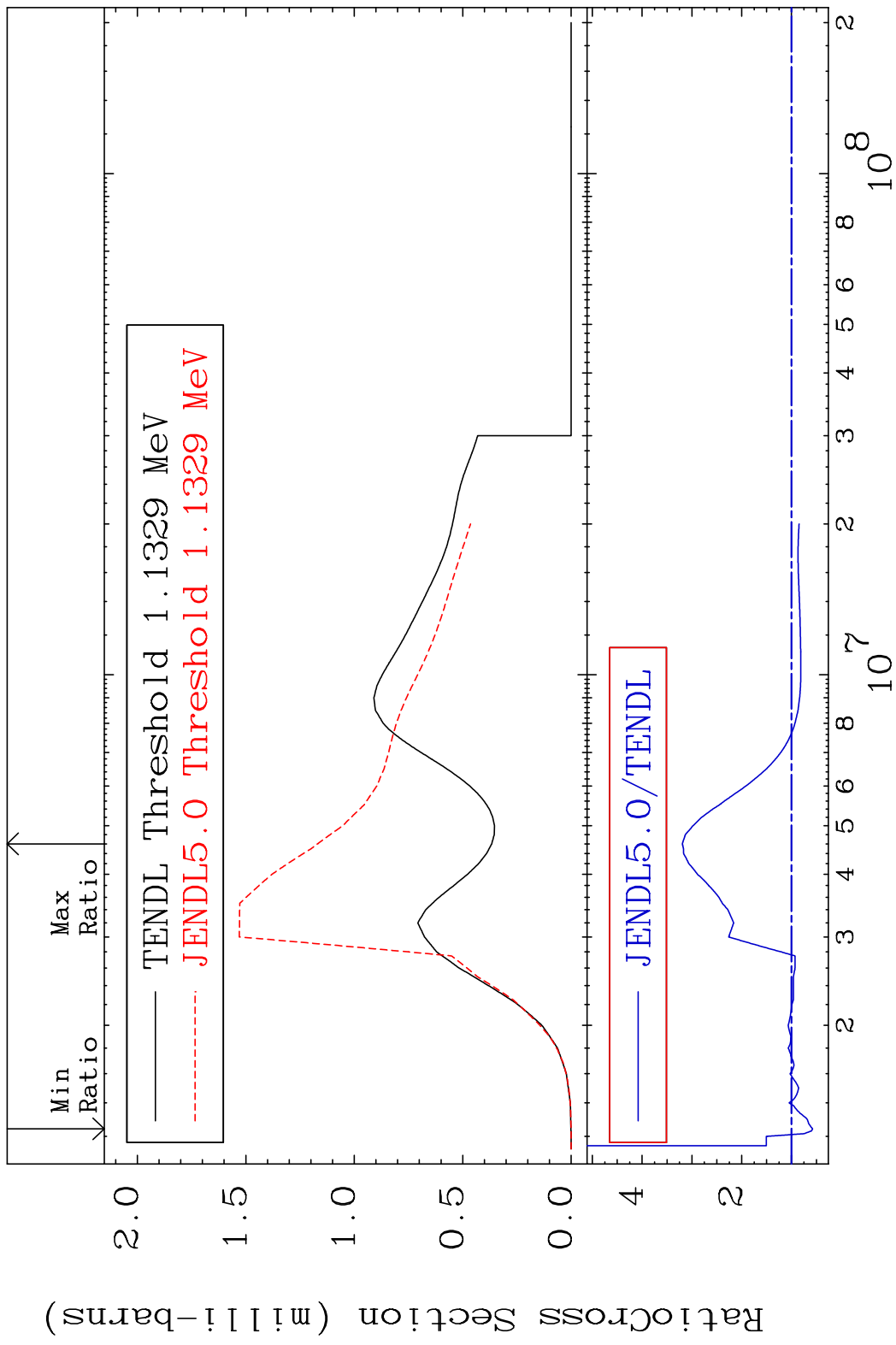
MAT 6249 MT= 59 (n, n') Level 62-Sm-152
 Cross Section -100.0 To 9999. %



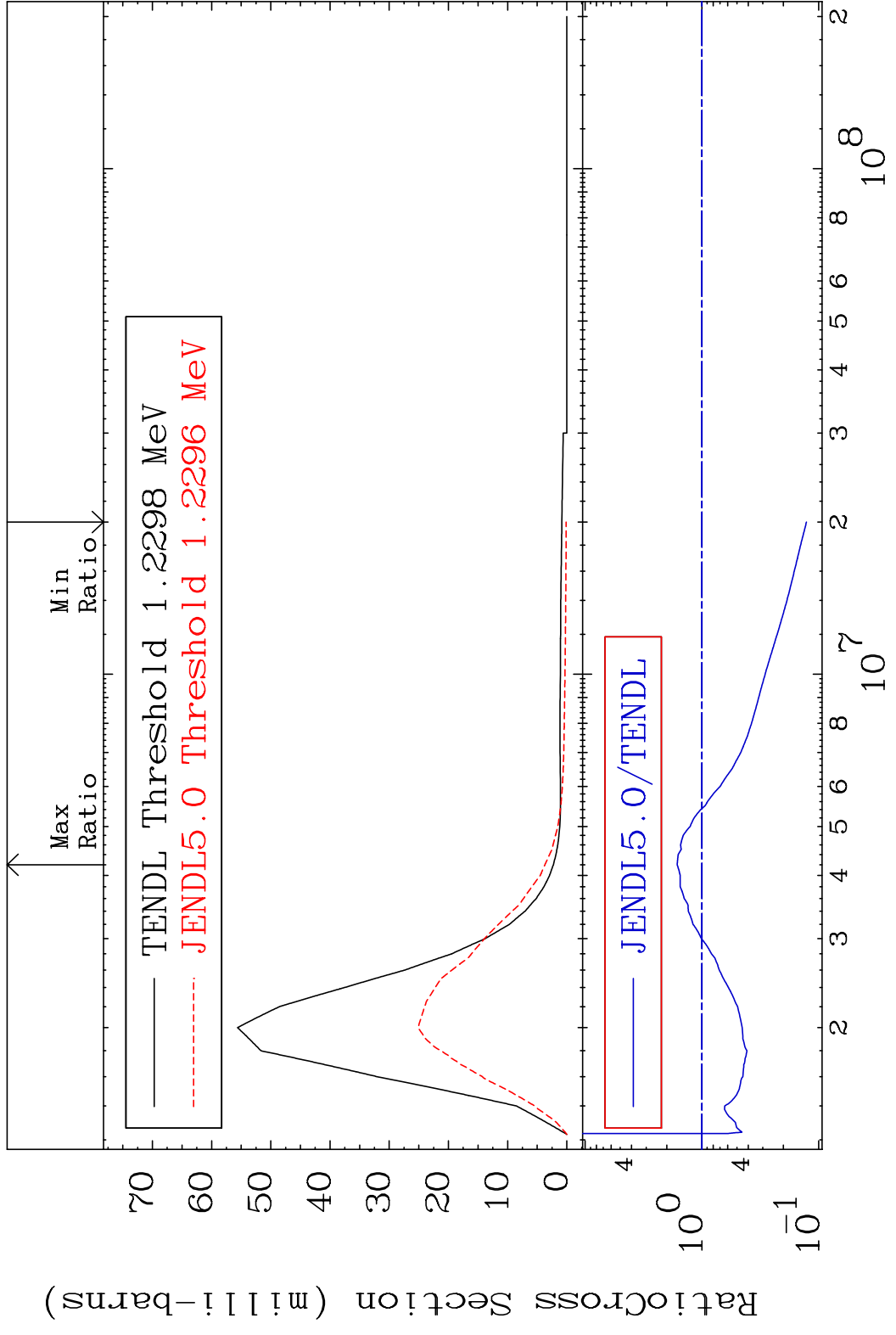
MAT 6249 MT= 60 (n,n') Level 62-Sm-152
 Cross Section -100.0 To 519.8 %



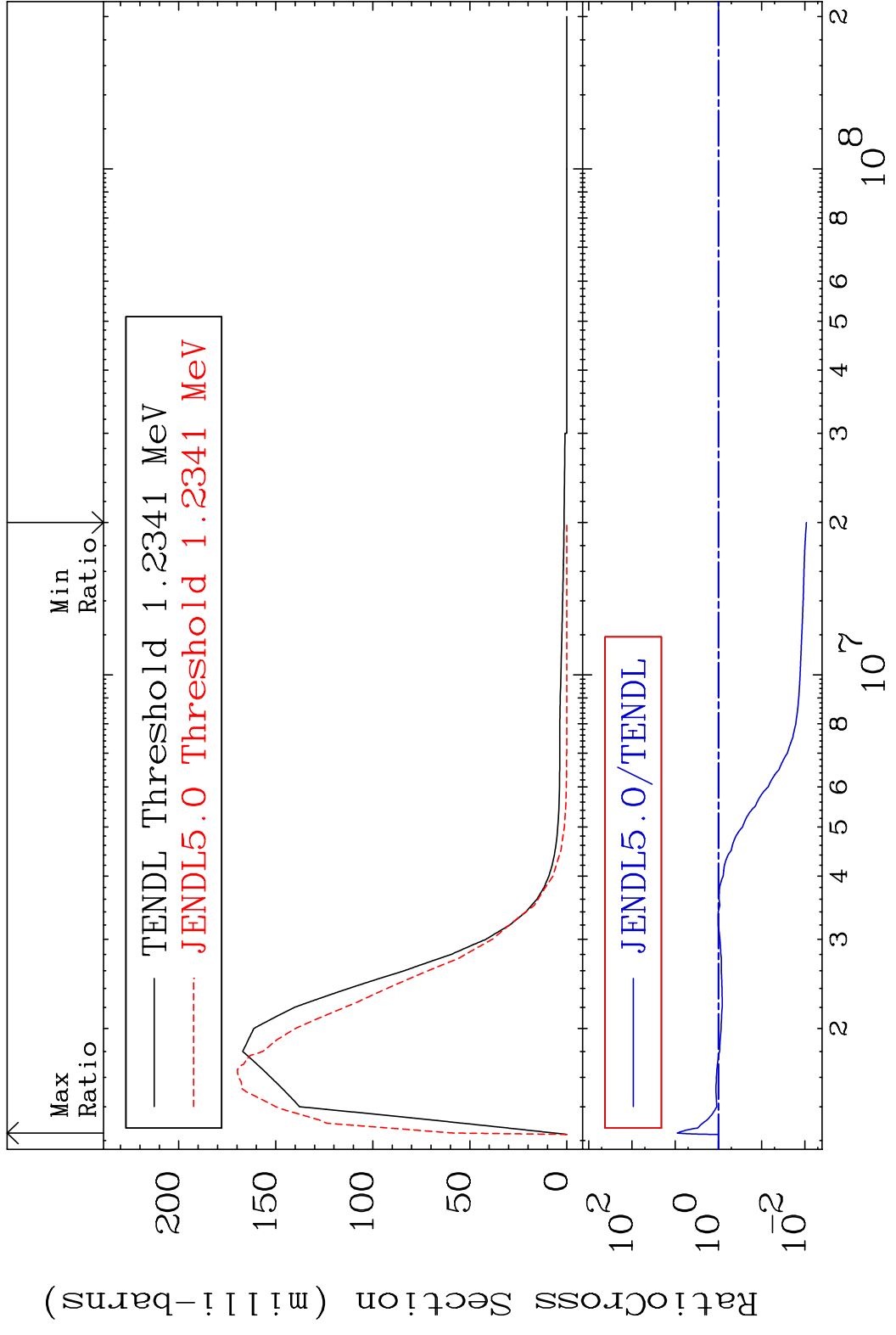
MAT 6249 MT= 61 (n, n') Level 62-Sm-152
 Cross Section -42.28 To 219.2 %



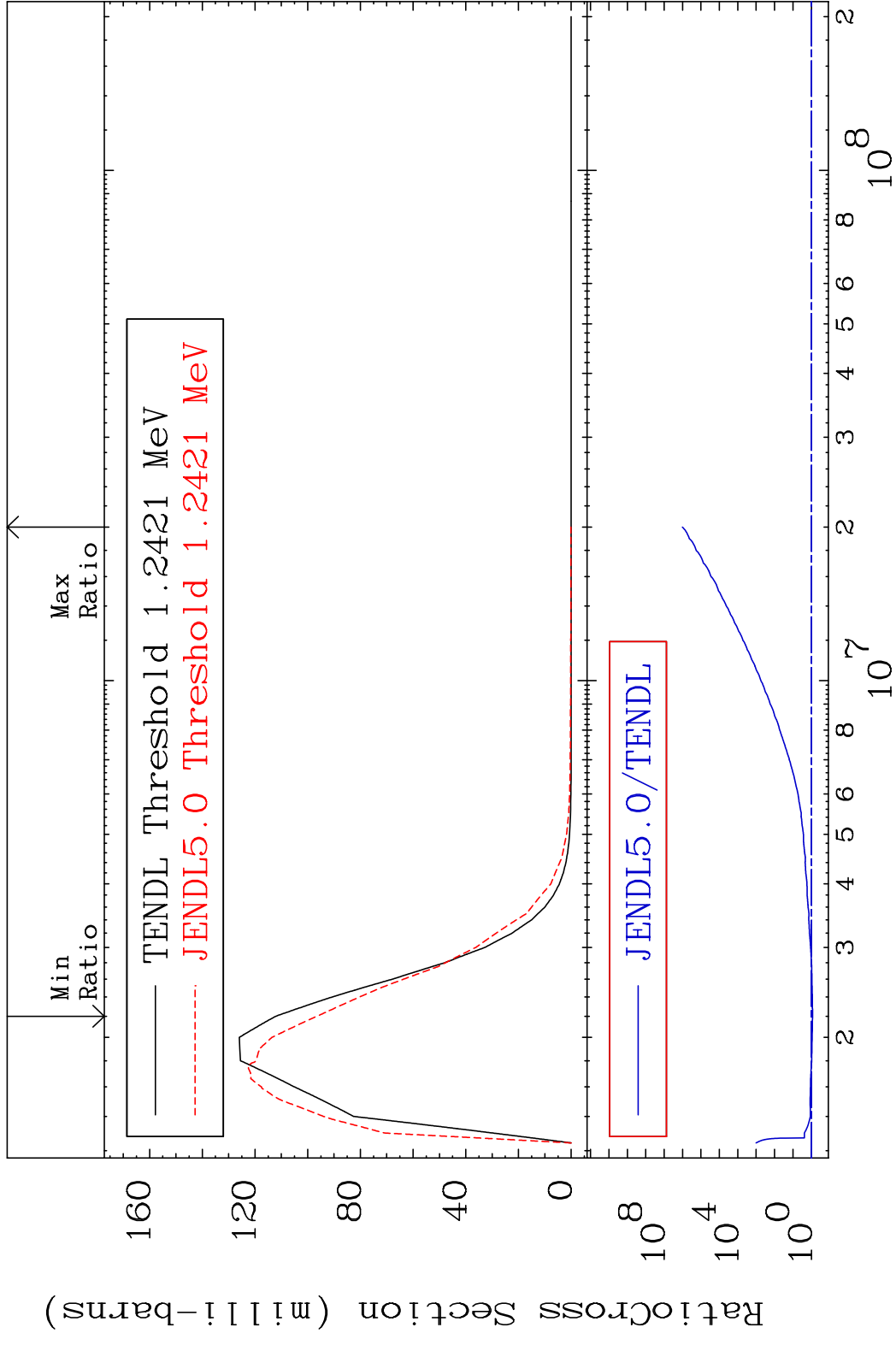
MAT 6249 MT= 62 (n, n') Level 62-Sm-152
 Cross Section -87.29 To 62.66 %



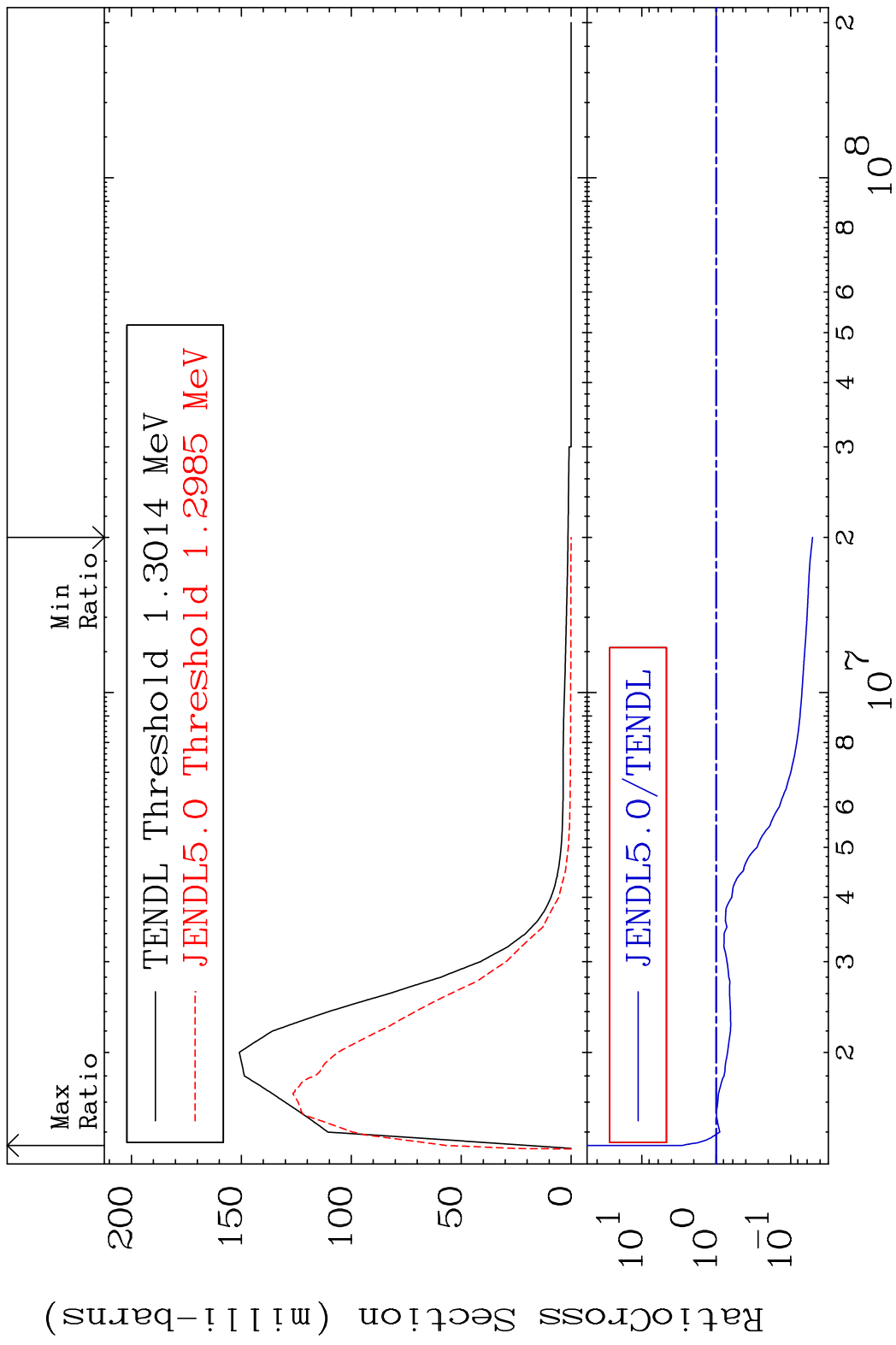
MAT 6249 MT= 63 (n, n') Level 62-Sm-152
 Cross Section -99.08 To 796.8 %



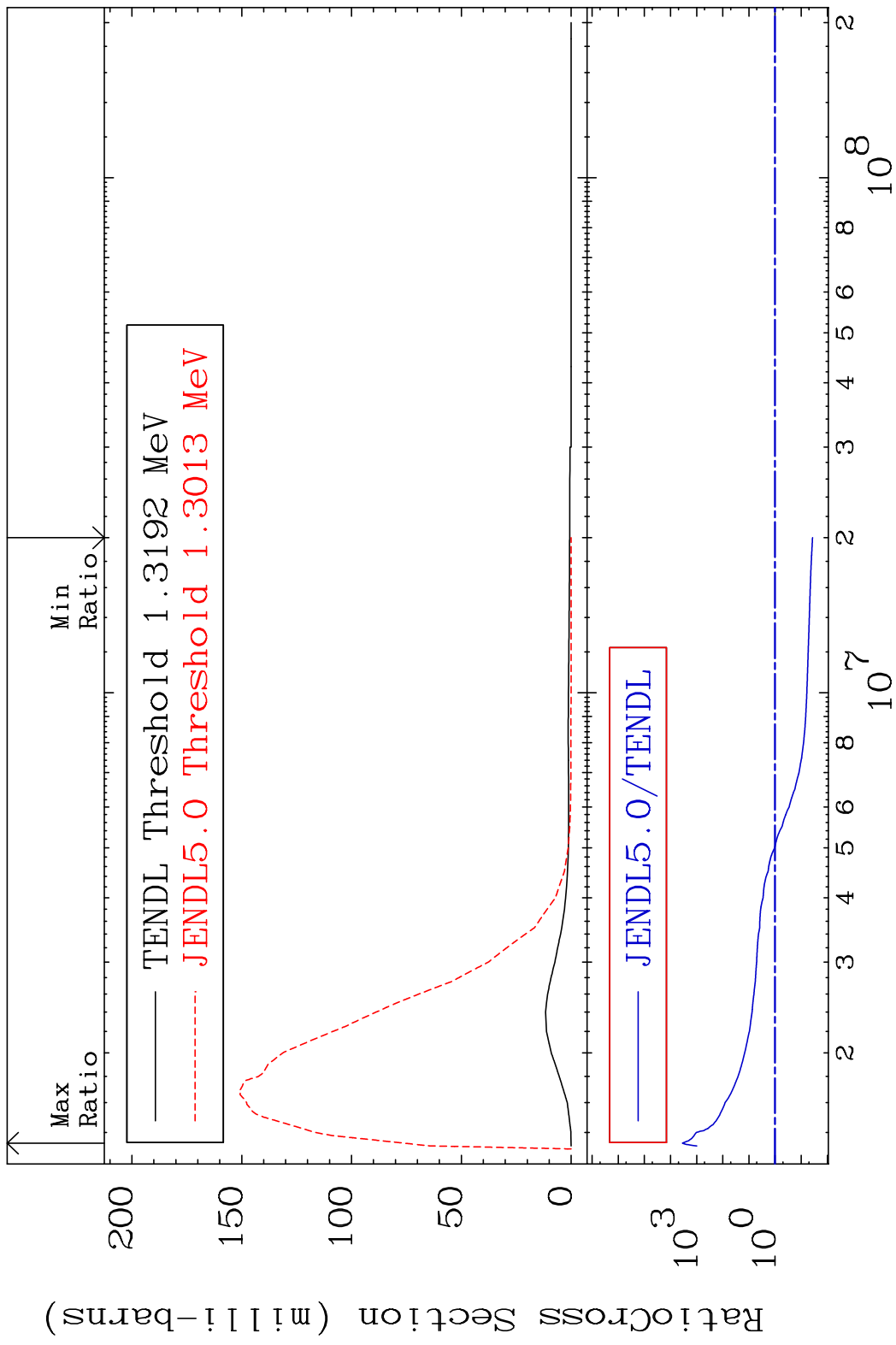
MAT 6249 MT= 64 (n, n') Level 62-Sm-152
 Cross Section -13.93 To 9999. %



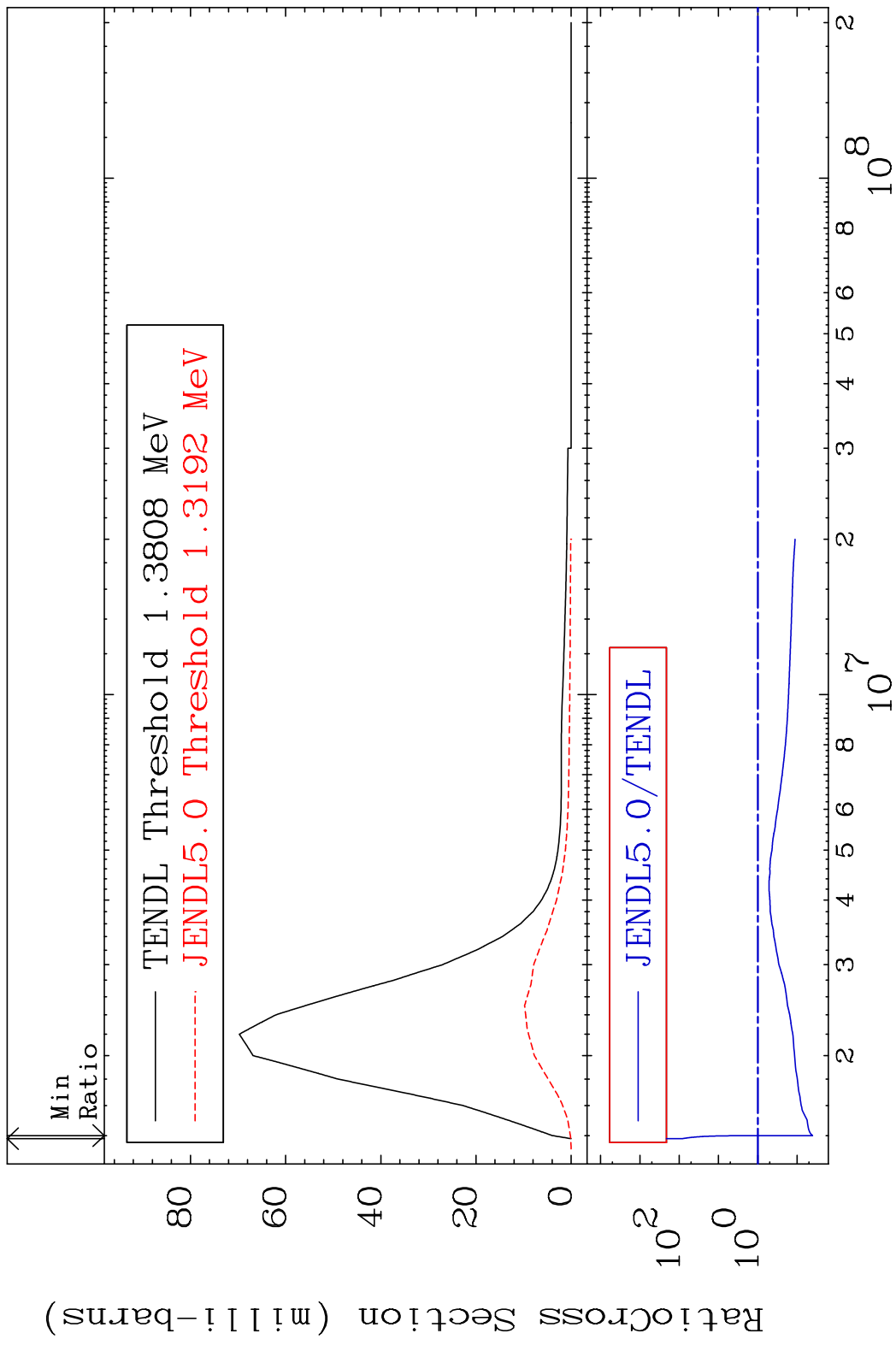
MAT 6249 MT= 65 (n, n') Level 62-Sm-152
 Cross Section -94.93 To 185.0 %



MAT 6249 MT= 66 (n, n') Level 62-Sm-152
 Cross Section -96.33 To 9999. %



MAT 6249 MT= 67 (n, n') Level 62-Sm-152
 Cross Section -95.96 To 8218. %

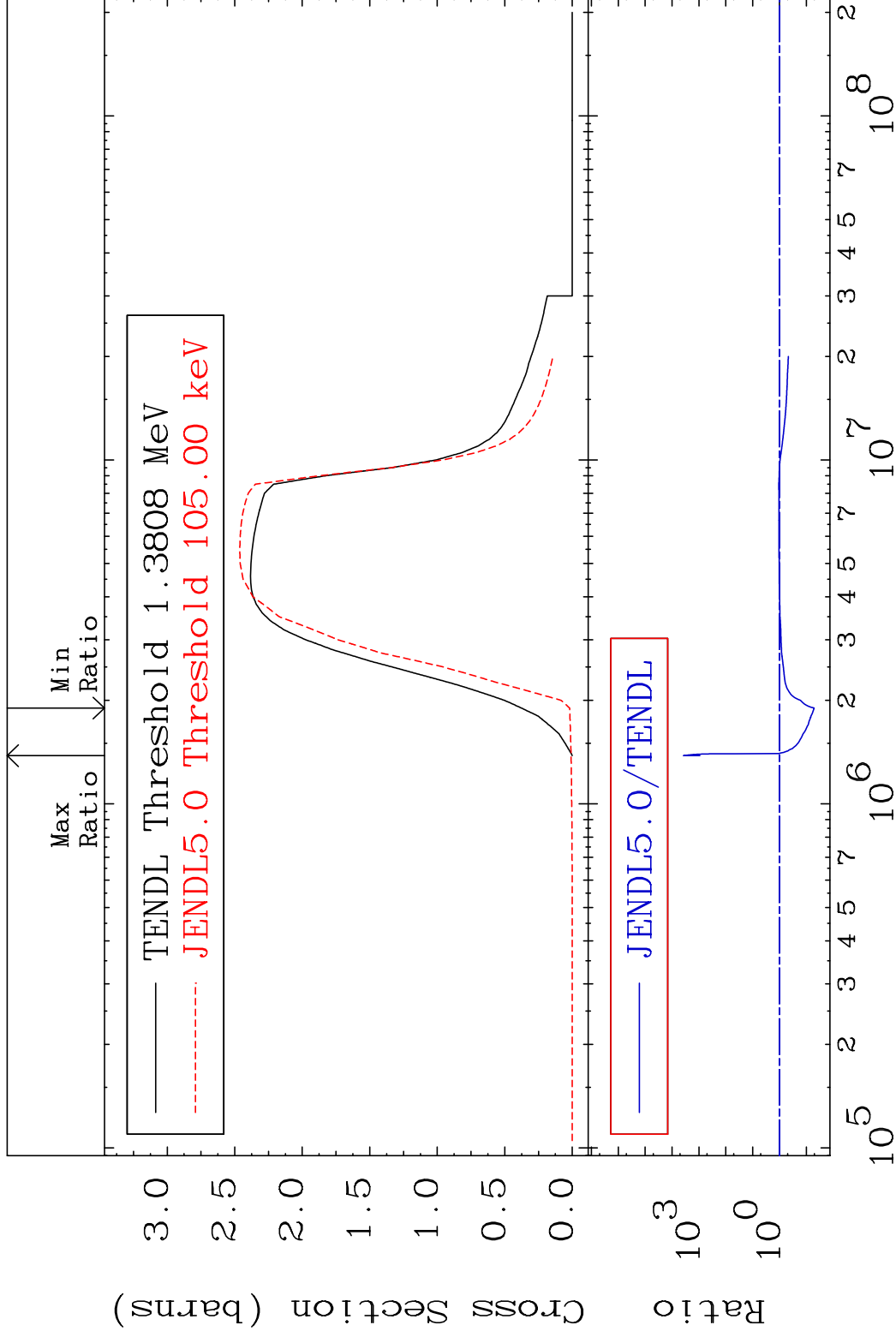


MAT 6249

(n,n') Continuum

62-Sm-152

Cross Section -94.85 To 9999. %



28

Incident Energy (eV)

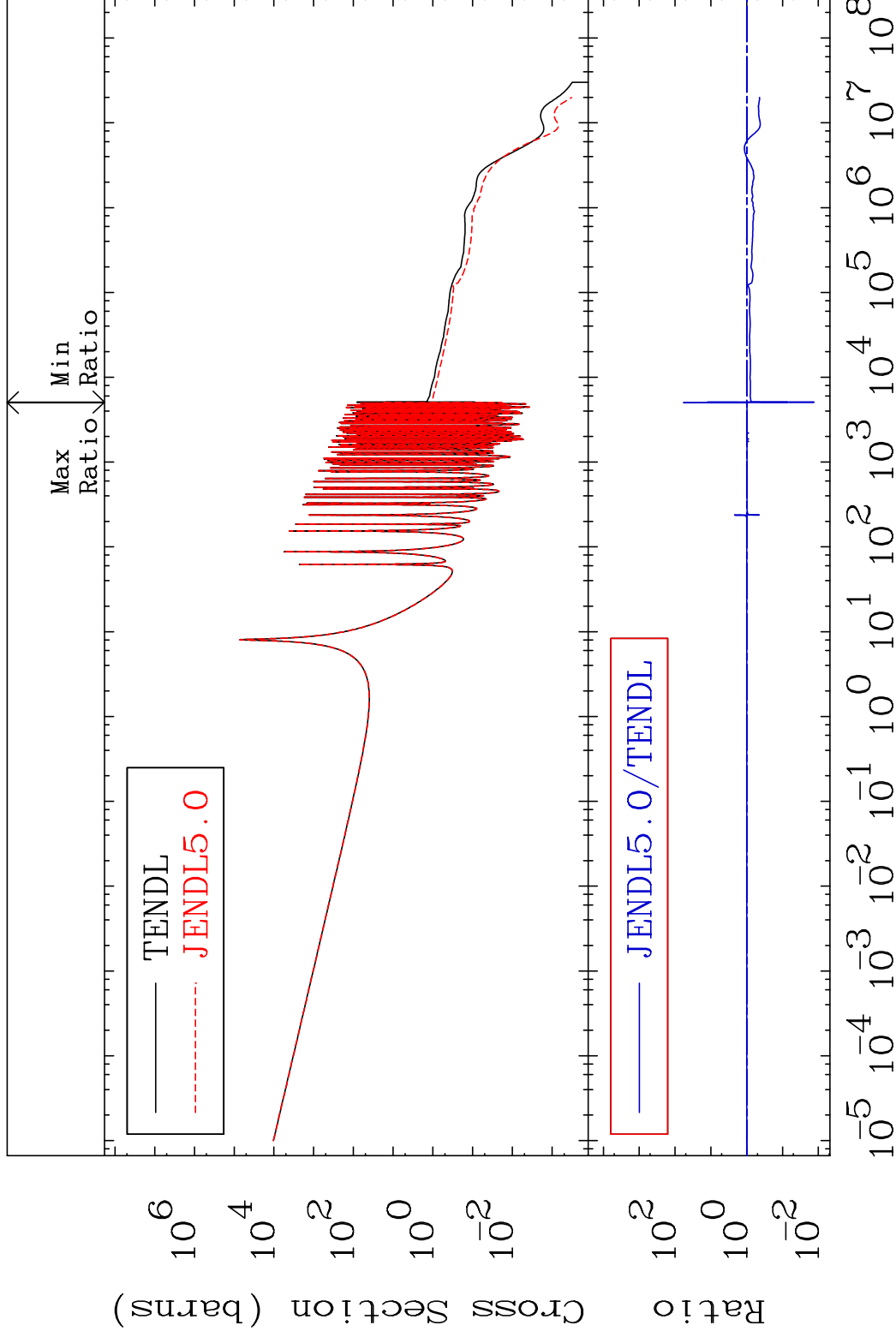
62-Sm-152

MAT 6249

(n, γ)

62-Sm-152

Cross Section -98.68 To 5658. %



29

Incident Energy (eV)

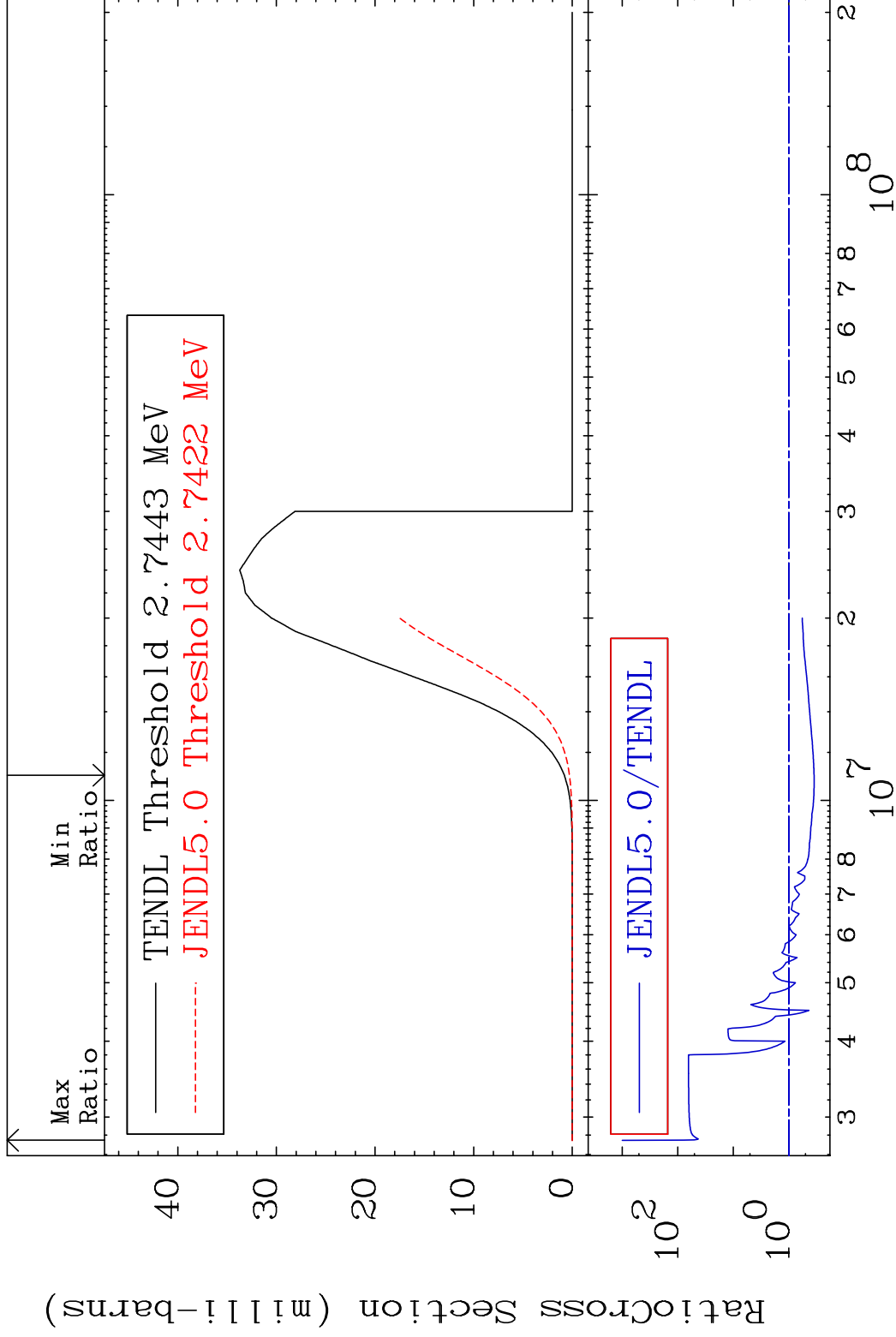
62-Sm-152

MAT 6249

(n, p)

62-Sm-152

Cross Section -64.92 To 7728. %



30

Incident Energy (eV)

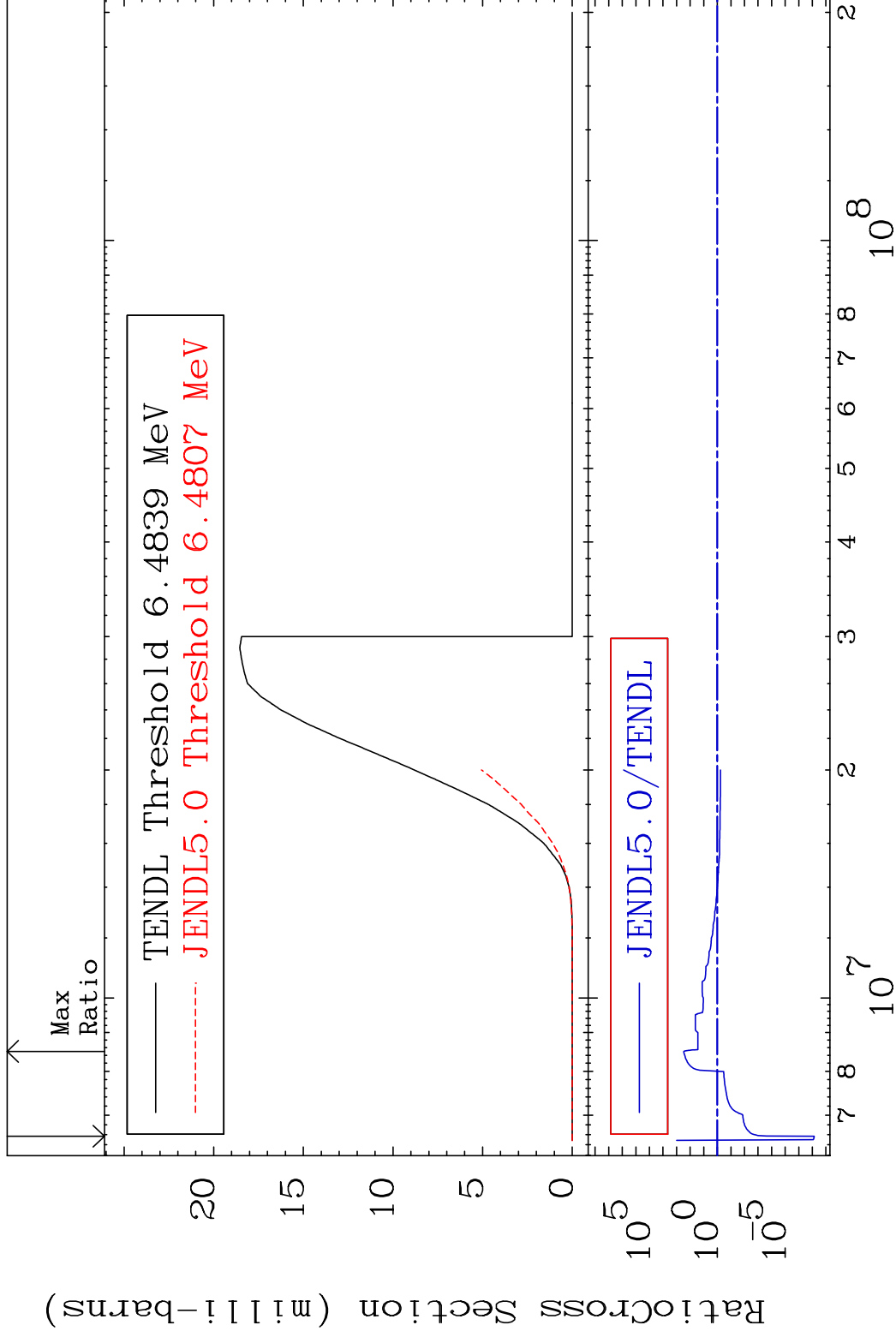
62-Sm-152

MAT 6249

(n, d)

62-Sm-152

Cross Section -100.0 To 9999. %



31

Incident Energy (eV)

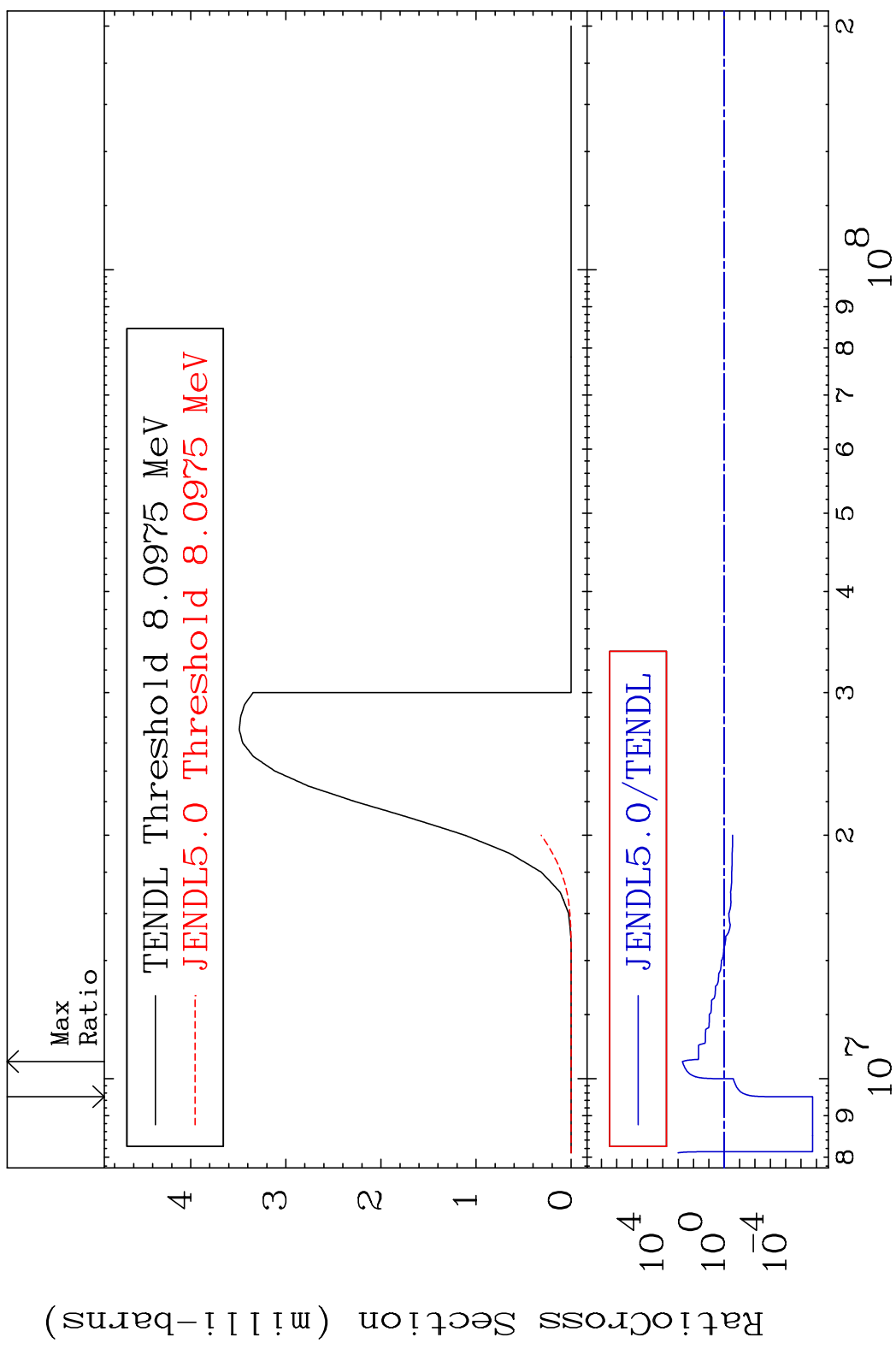
62-Sm-152

MAT 6249

(n, t)

62-Sm-152

Cross Section -100.0 To 9999. %

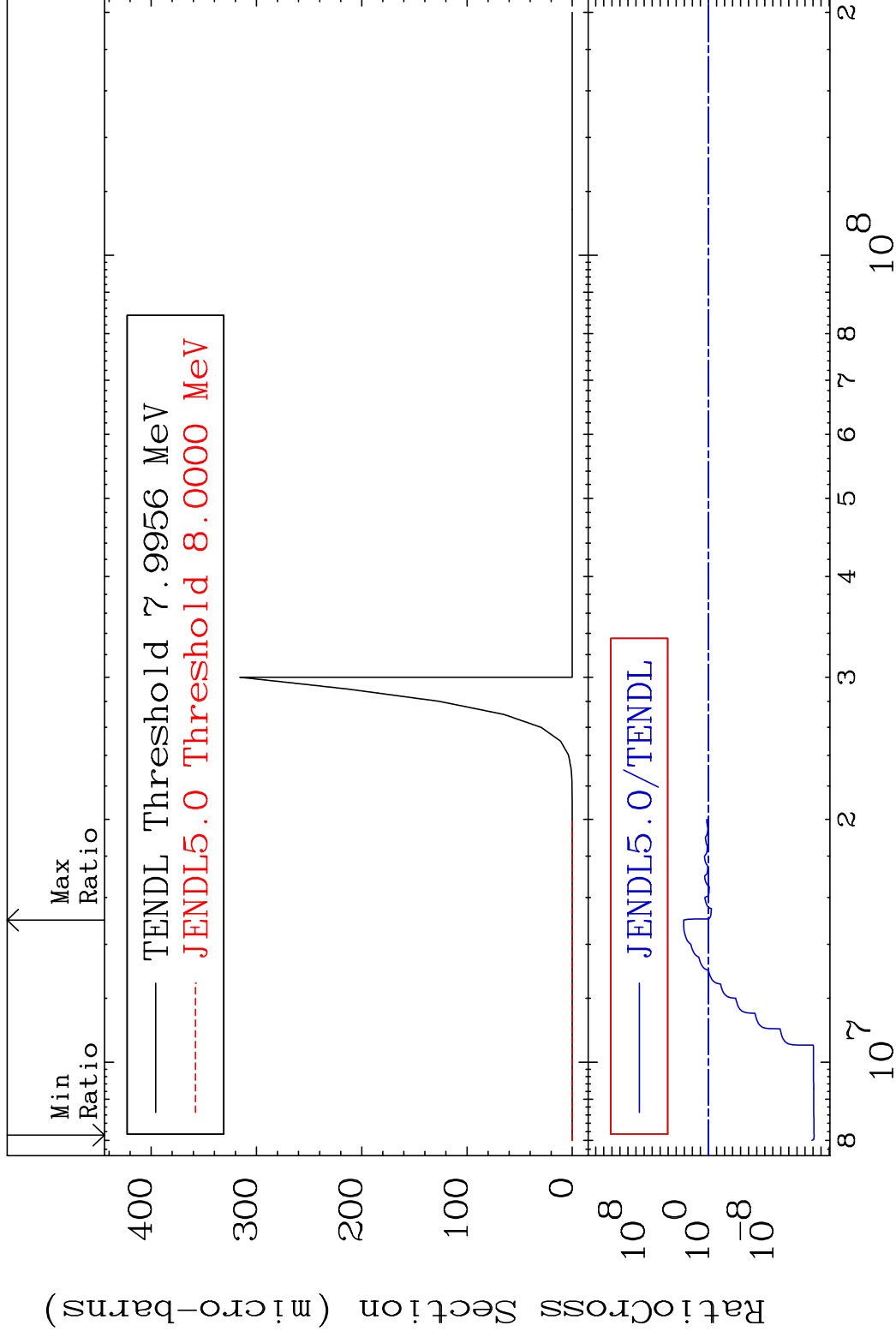


MAT 6249

(n, He-3)

62-Sm-152

Cross Section -100.0 To 9999. %



33

Incident Energy (eV)

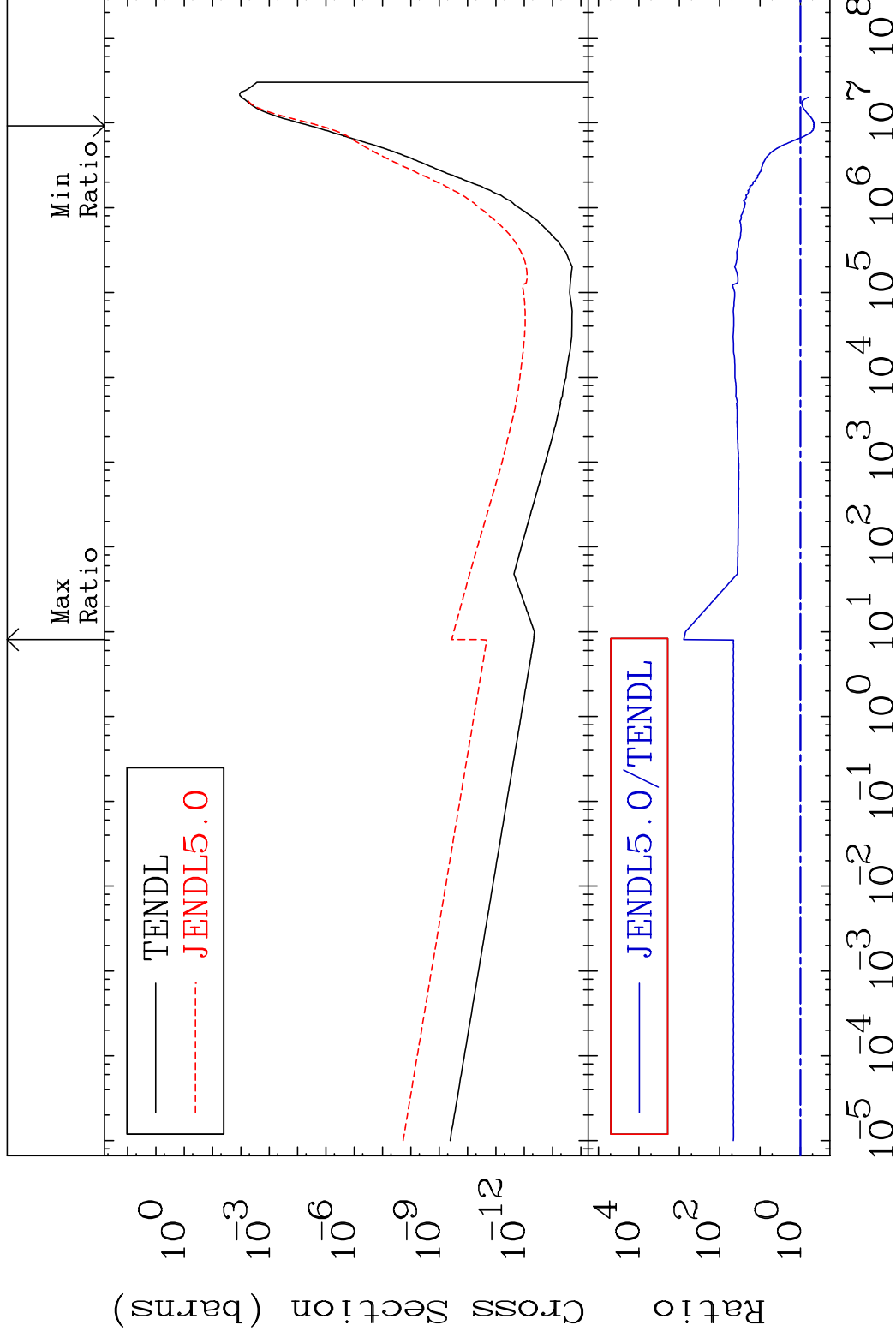
62-Sm-152

MAT 6249

(n, α)

62-Sm-152

Cross Section -54.13 To 9999. %

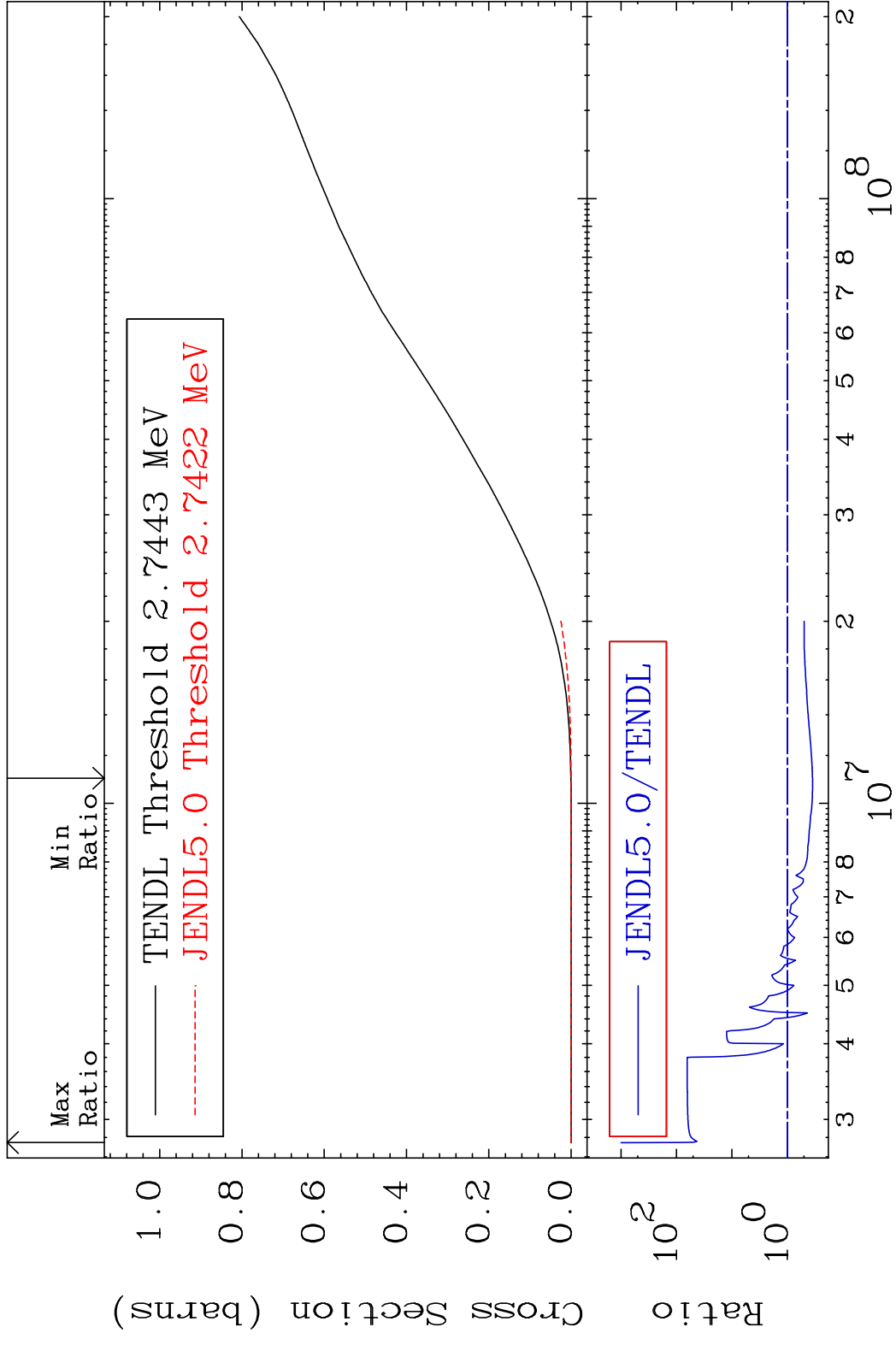


34

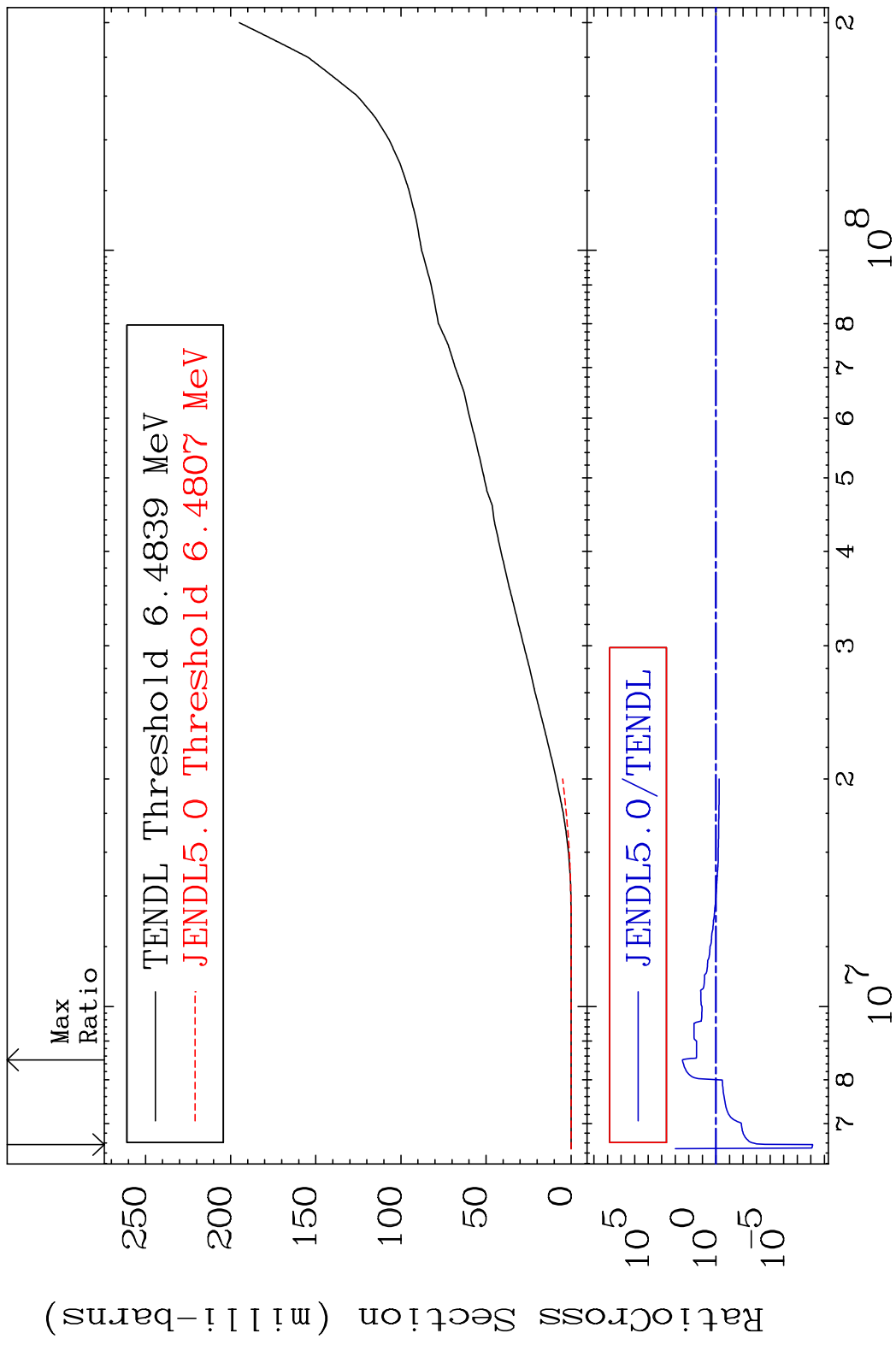
Incident Energy (eV)

62-Sm-152

Cross Section -64.92 To 7728. %



MAT 6249 Deuterium Production 62-Sm-152
 Cross Section -100.0 To 9999. %

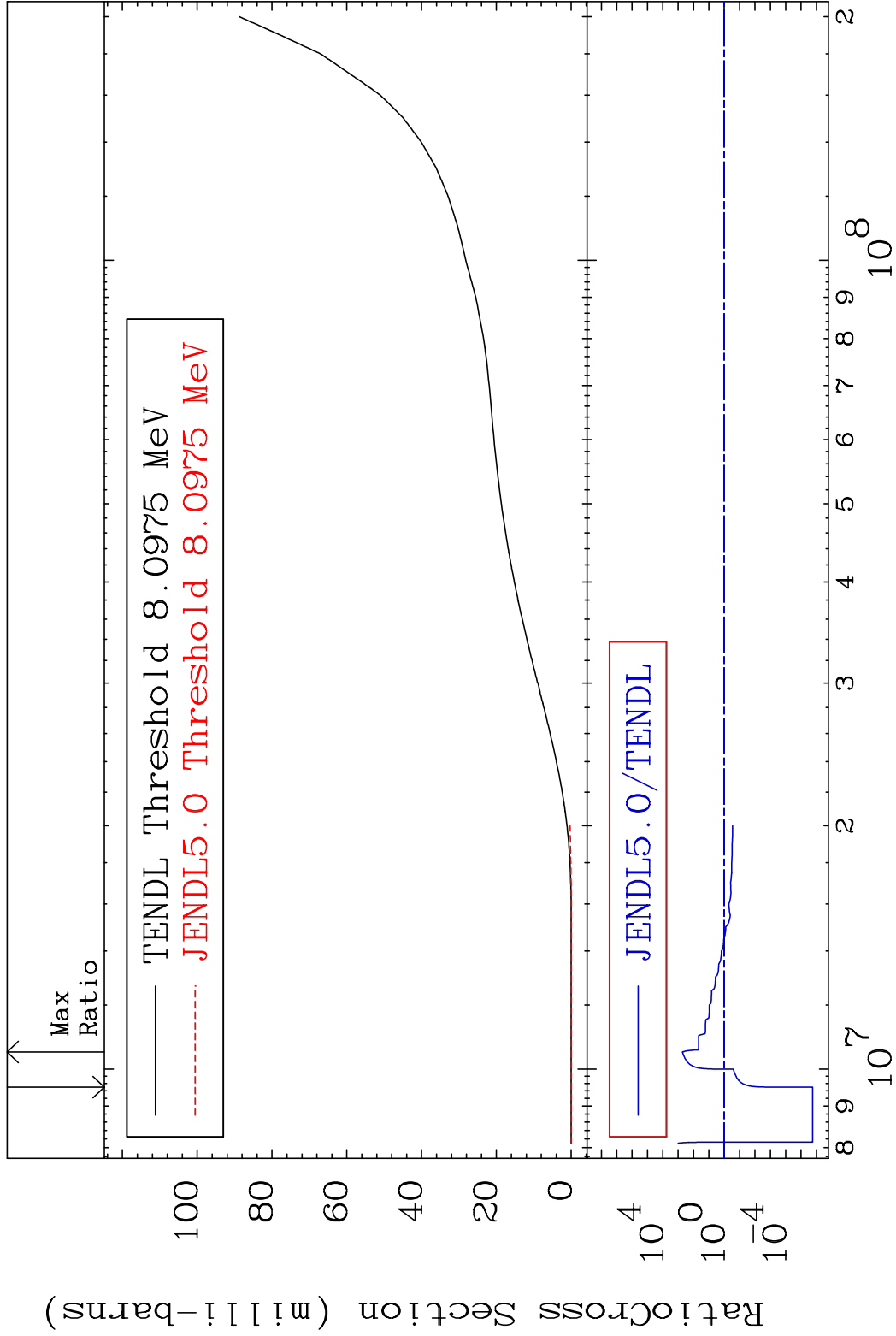


MAT 6249

Tritium Production

62-Sm-152

Cross Section -100.0 To 9999. %

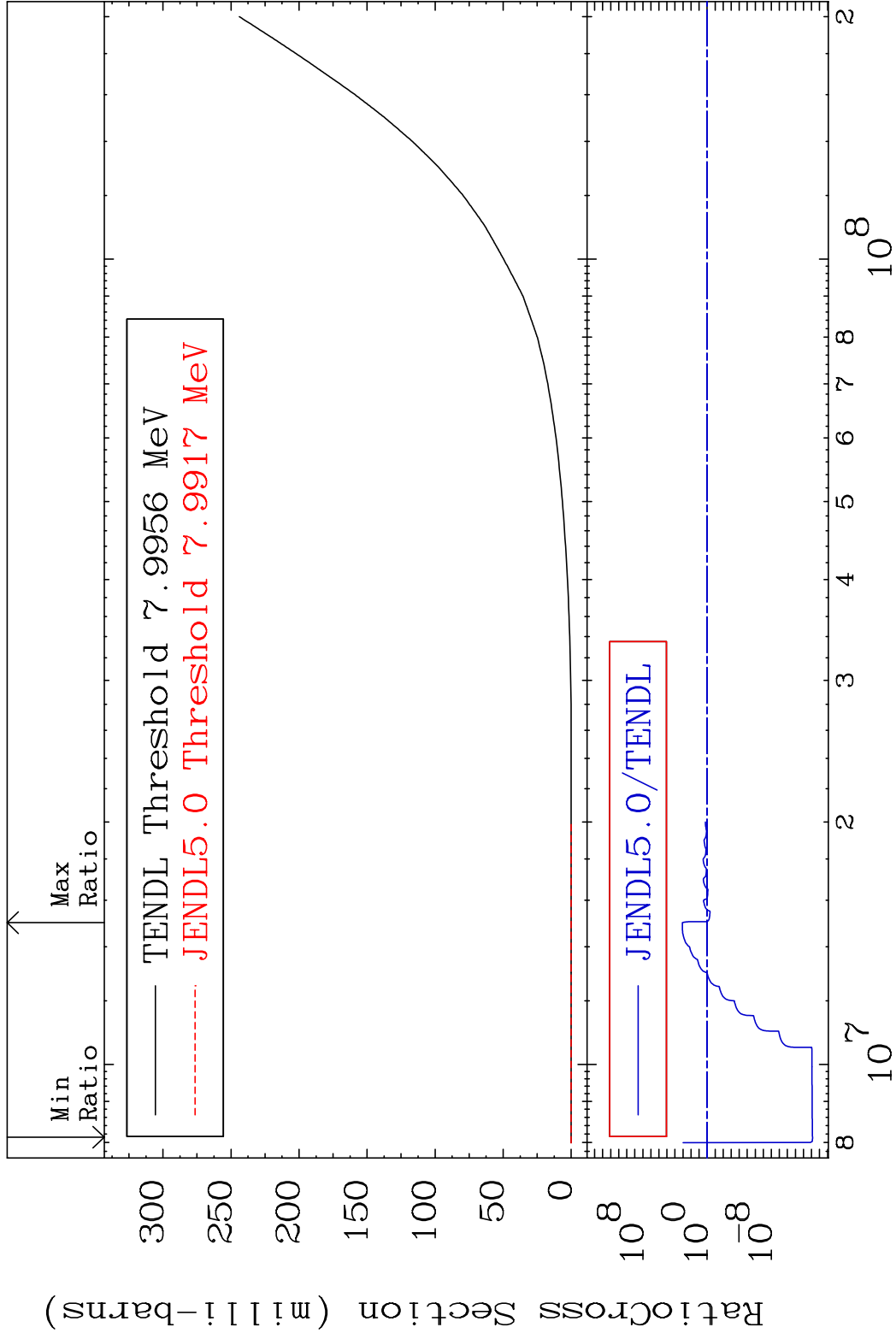


MAT 6249

He-3 Production

62-Sm-152

Cross Section -100.0 To 9999. %

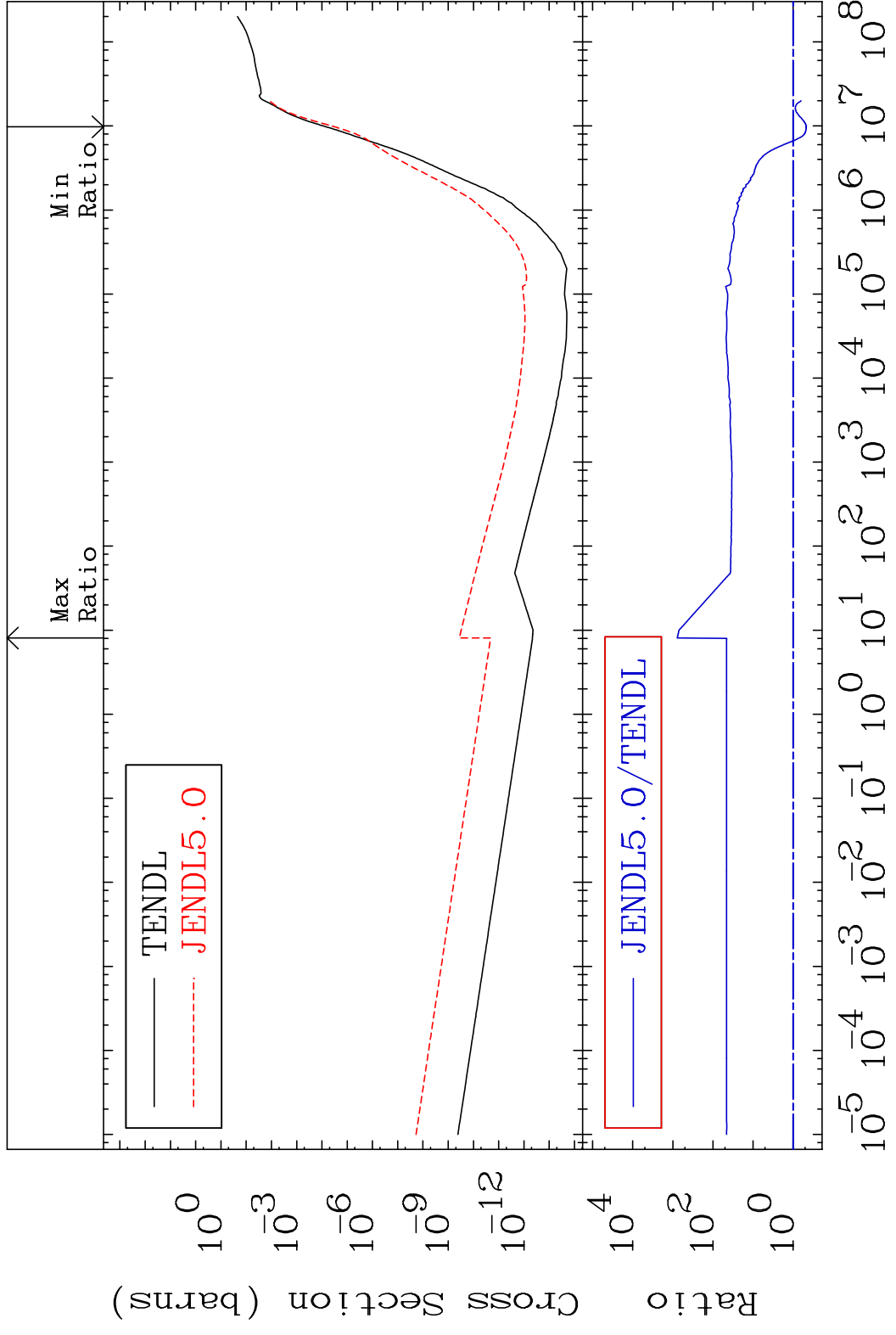


38

Incident Energy (eV)

62-Sm-152

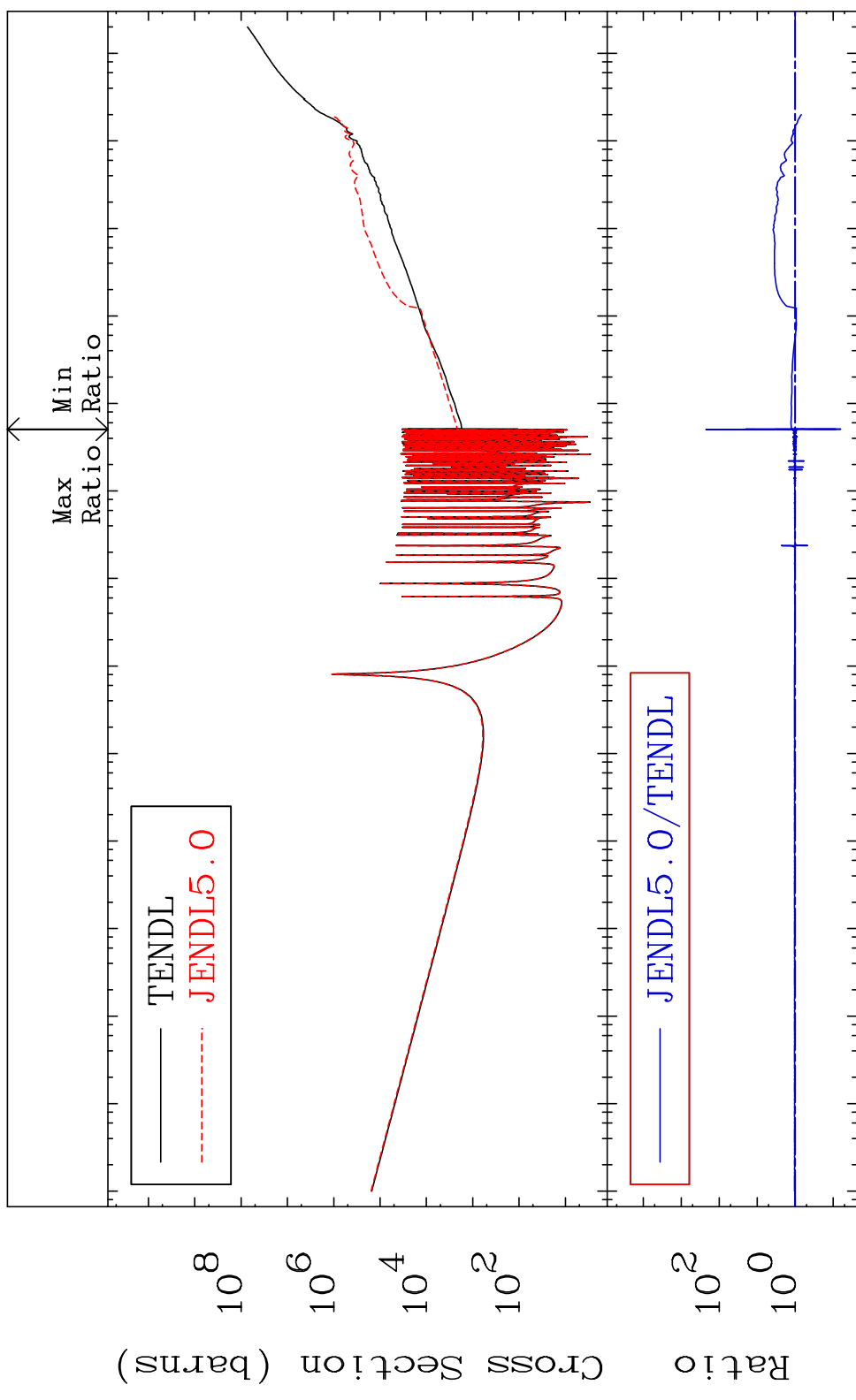
MAT 6249 He-4 Production 62-Sm-152
 Cross Section -53.41 To 9999. %



MAT 6249

Kerma total (eV-barns) 62-Sm-152

Cross Section -93.58 To 9999. %



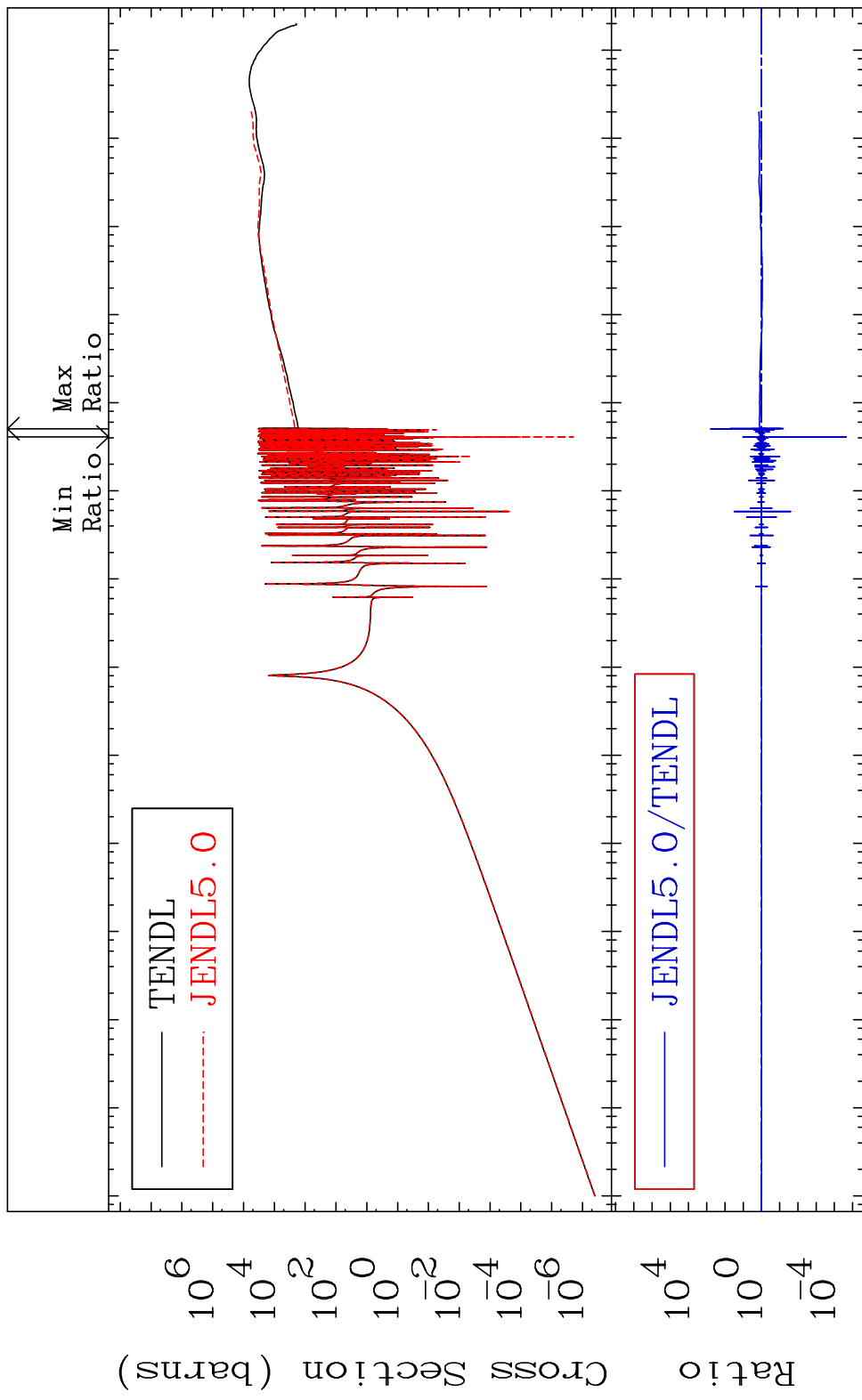
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

40

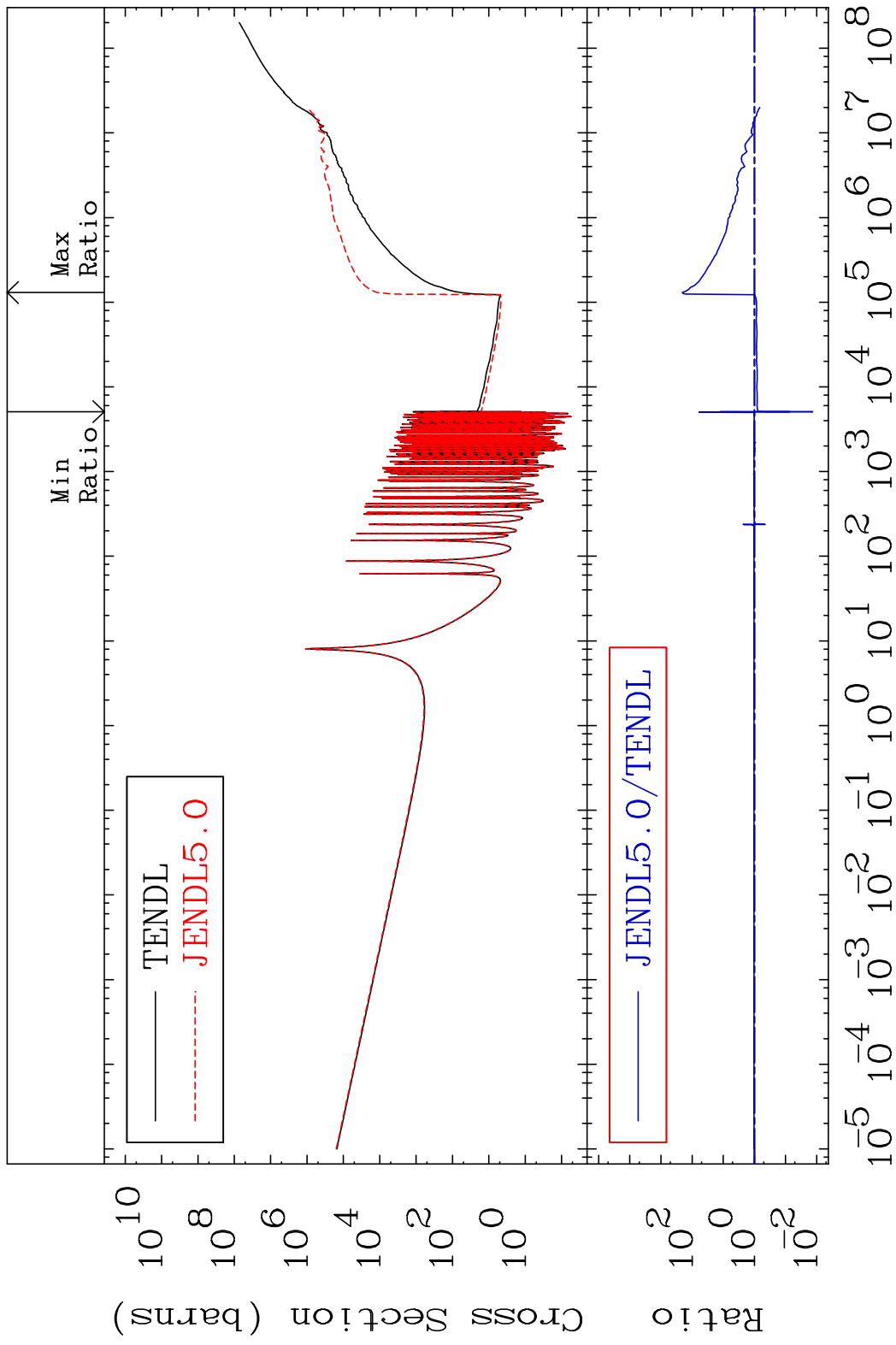
Incident Energy (eV)

62-Sm-152

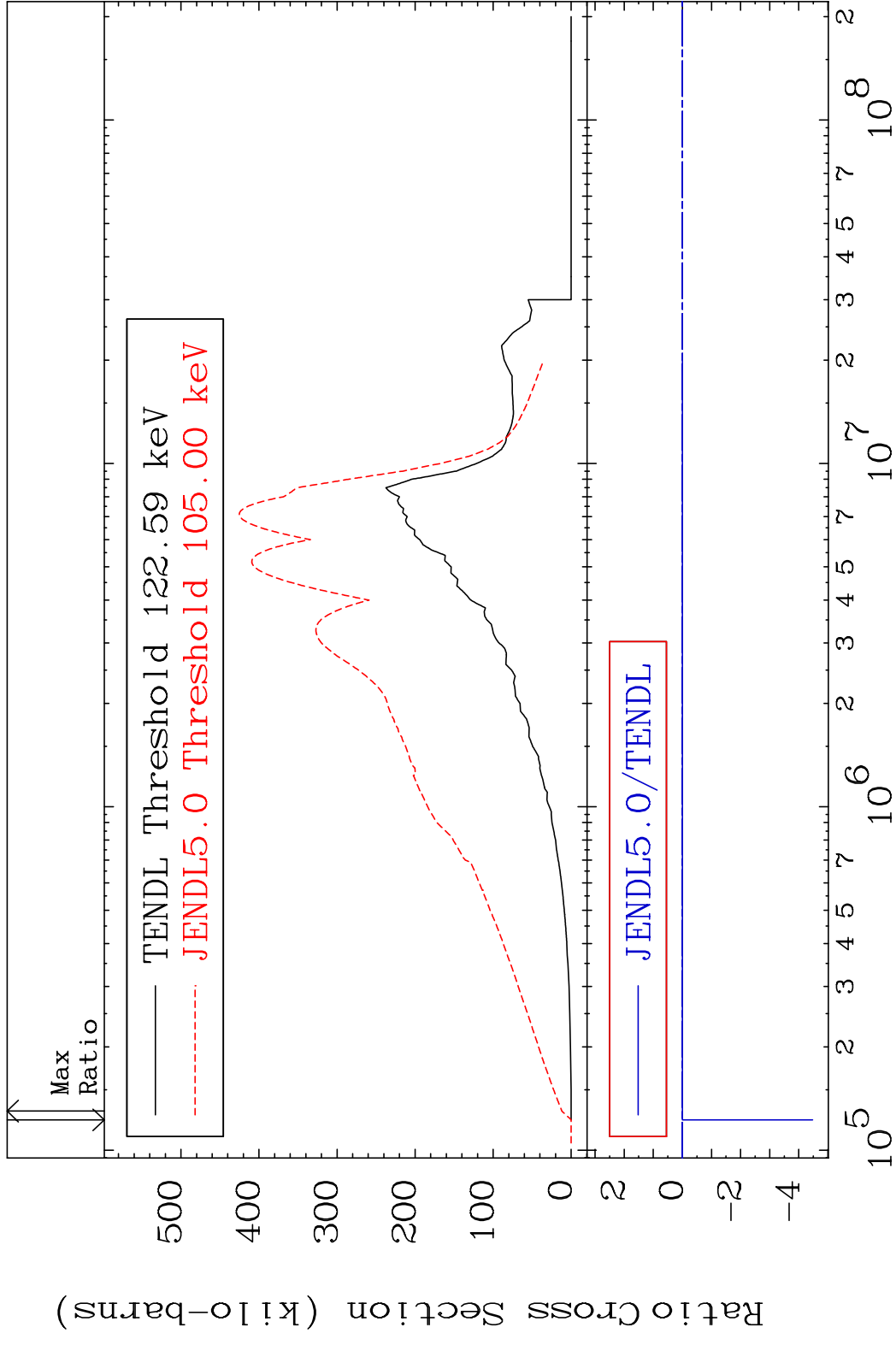
MAT 6249 Kerma elastic 62-Sm-152
 Cross Section -100.0 To 9999. %



MAT 6249 Kerma non-elastic (all but mt2) 62-Sm-152
 Cross Section -98.64 To 9999. %

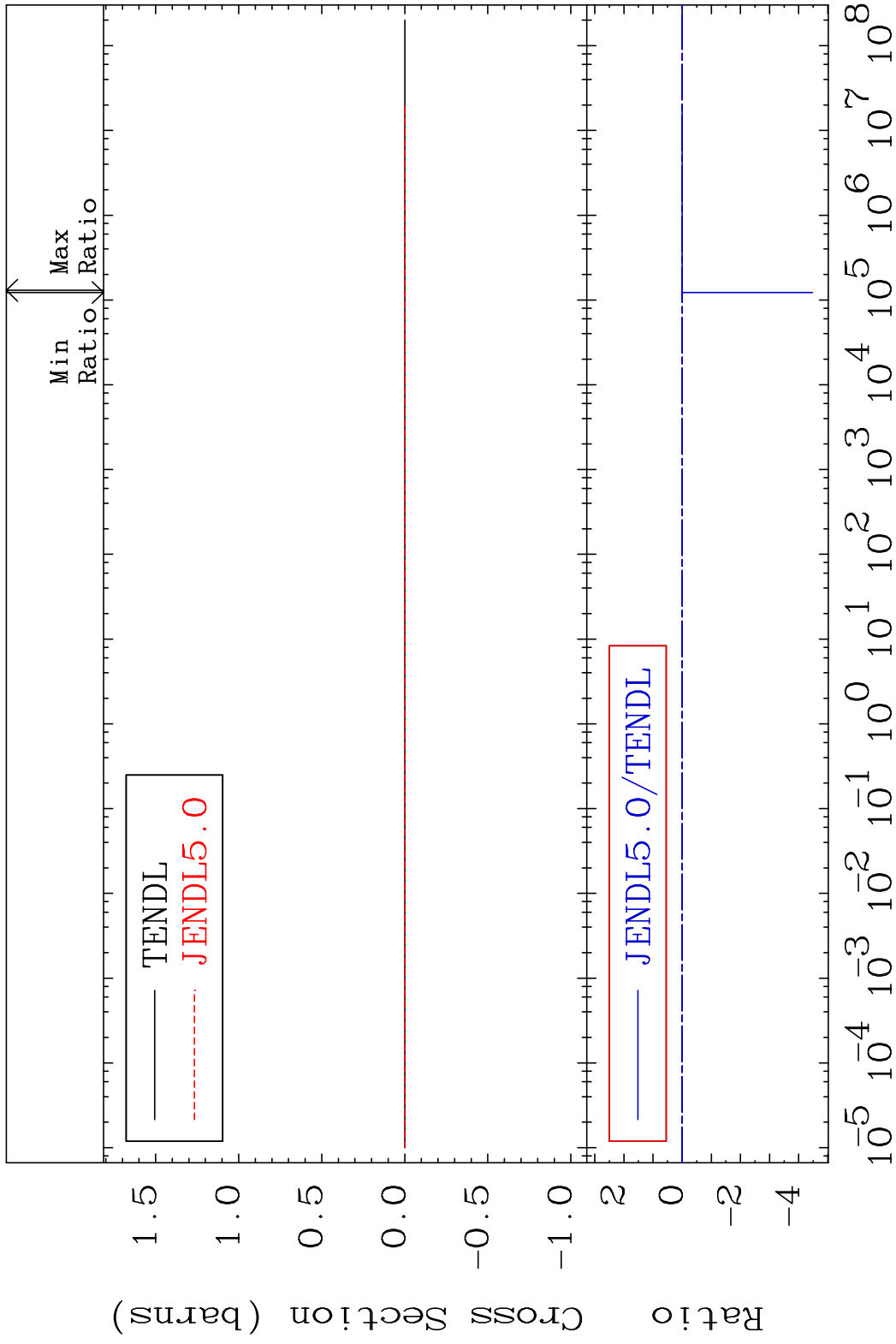


MAT 6249 Kerma inelastic (mt51-91) 62-Sm-152
 Cross Section -9999. To 9999. %



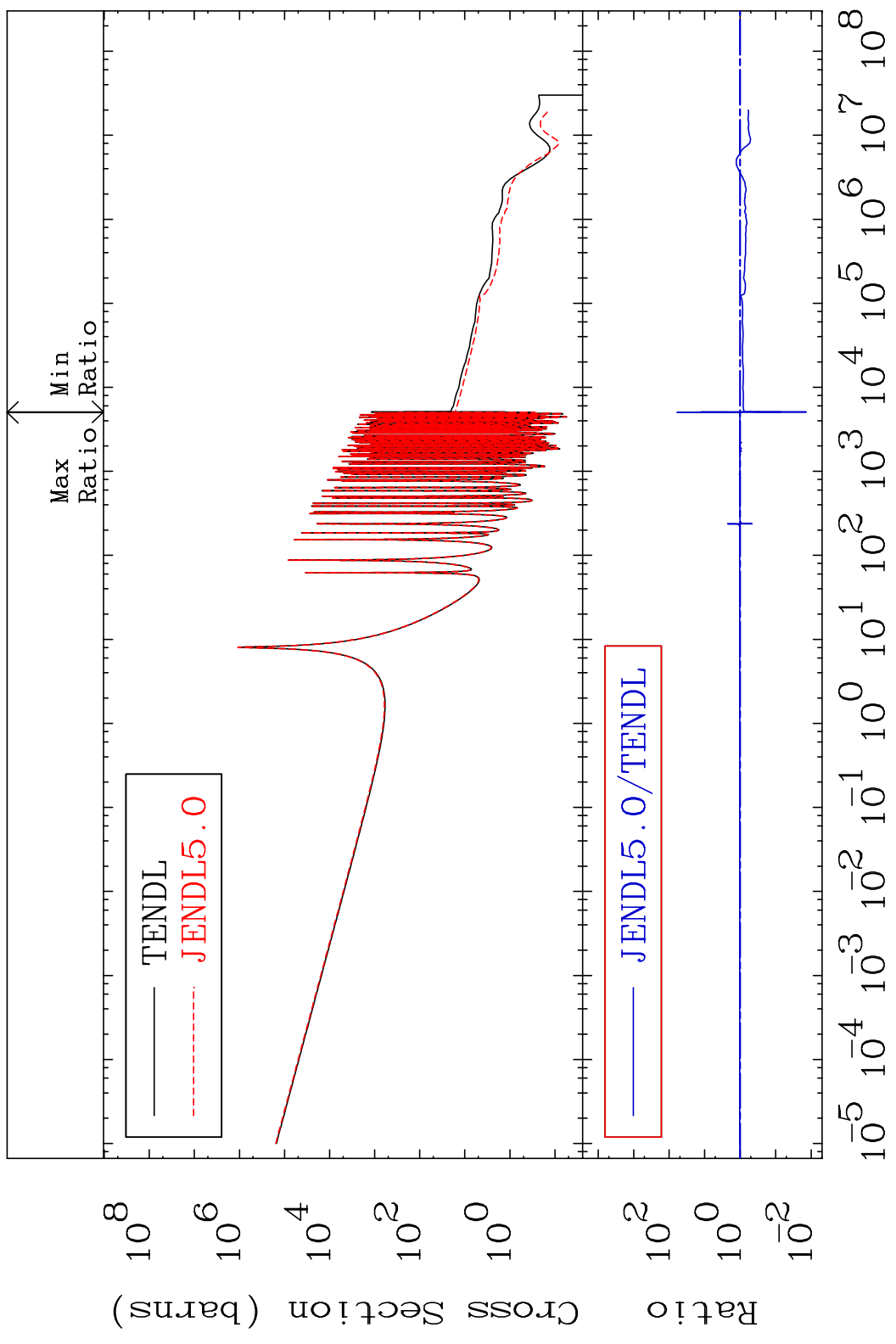
43 Incident Energy (eV) 62-Sm-152

MAT 6249 Kerma fission (mt18 or mt19-20-21-38) ^{62}Sm -152
 Cross Section -9999. To 9999. %



MAT 6249

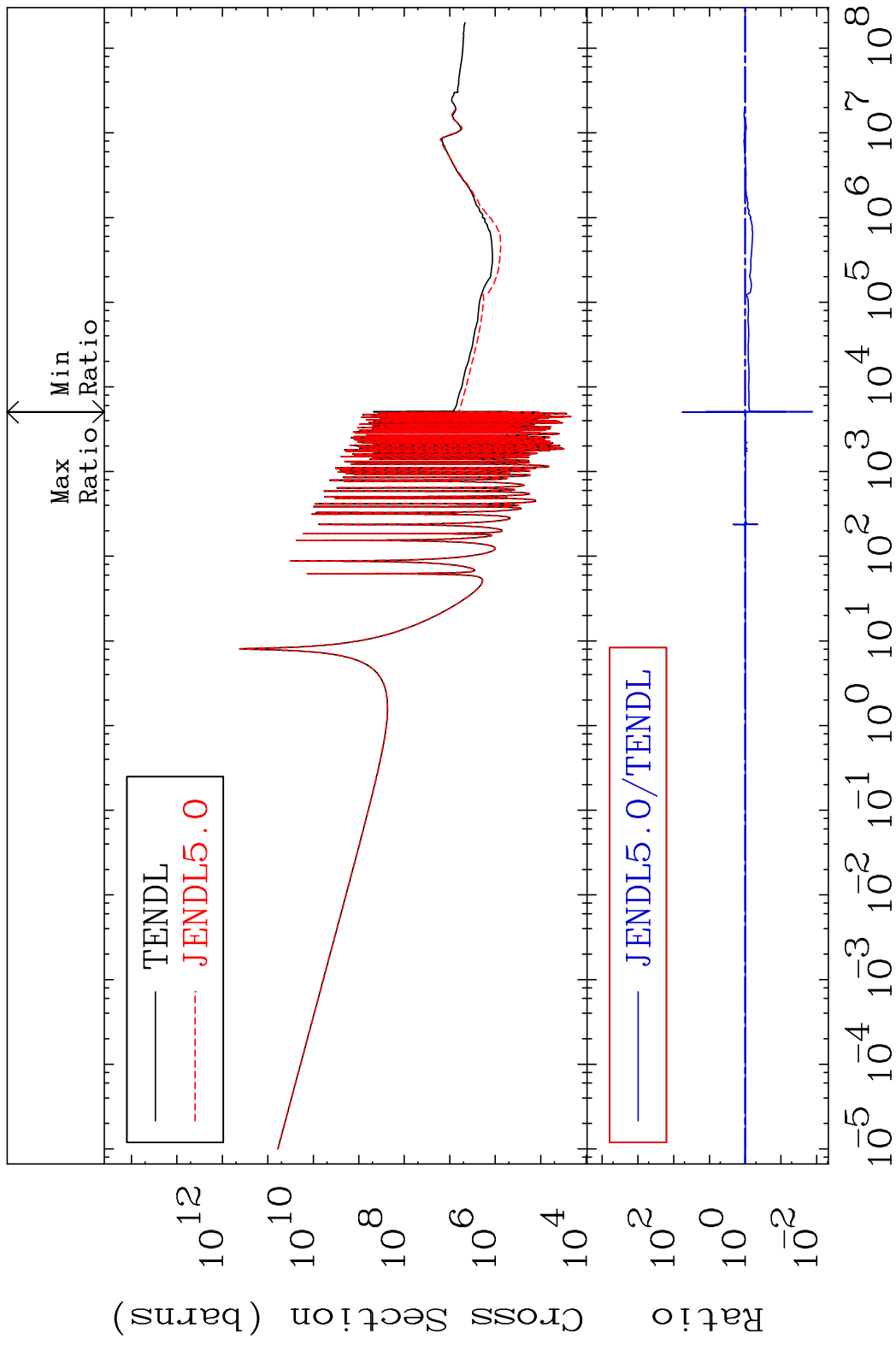
Kerma capture (mt102) 62-Sm-152
Cross Section -98.64 To 5848. %



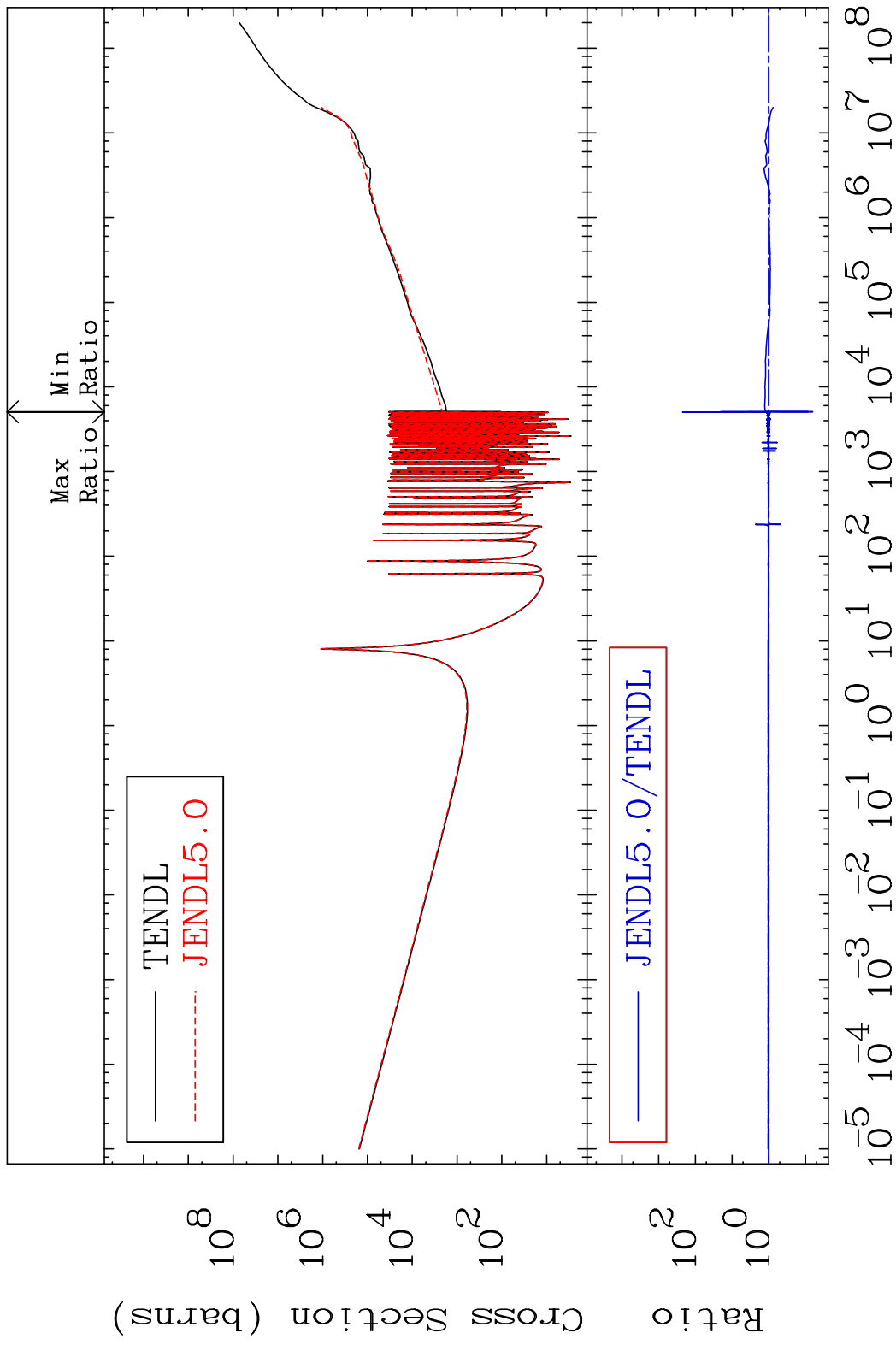
45

Incident Energy (eV) 62-Sm-152

MAT 6249 Total photon (eV-barns) 62-Sm-152
 Cross Section -98.69 To 5628. %



MAT 6249 Total kinematic kerma (high limit) 62-Sm-152
 Cross Section -93.58 To 9999. %

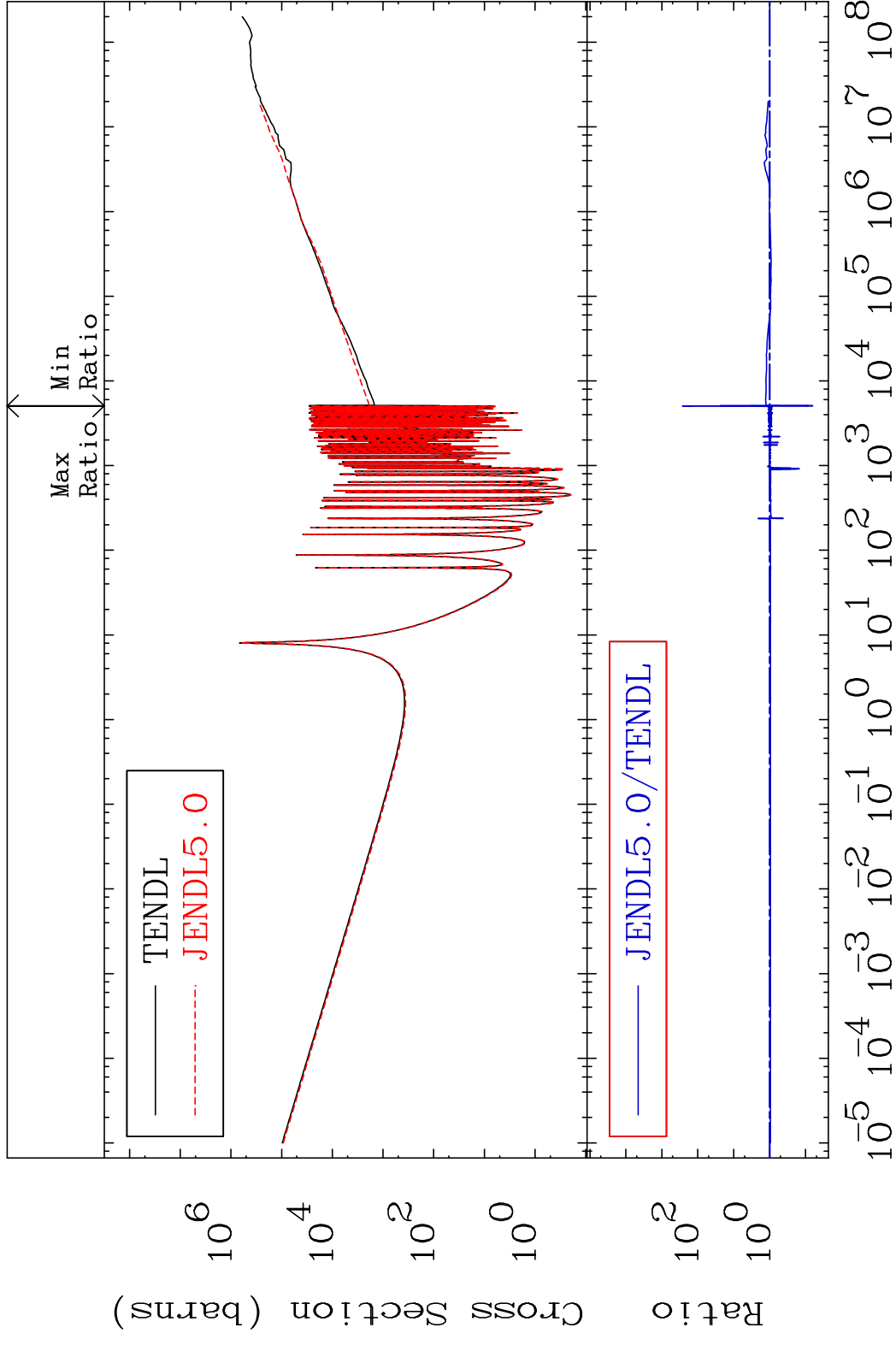


MAT 6249

Dpa total (eV-barns)

62-Sm-152

Cross Section -93.59 To 9999. %

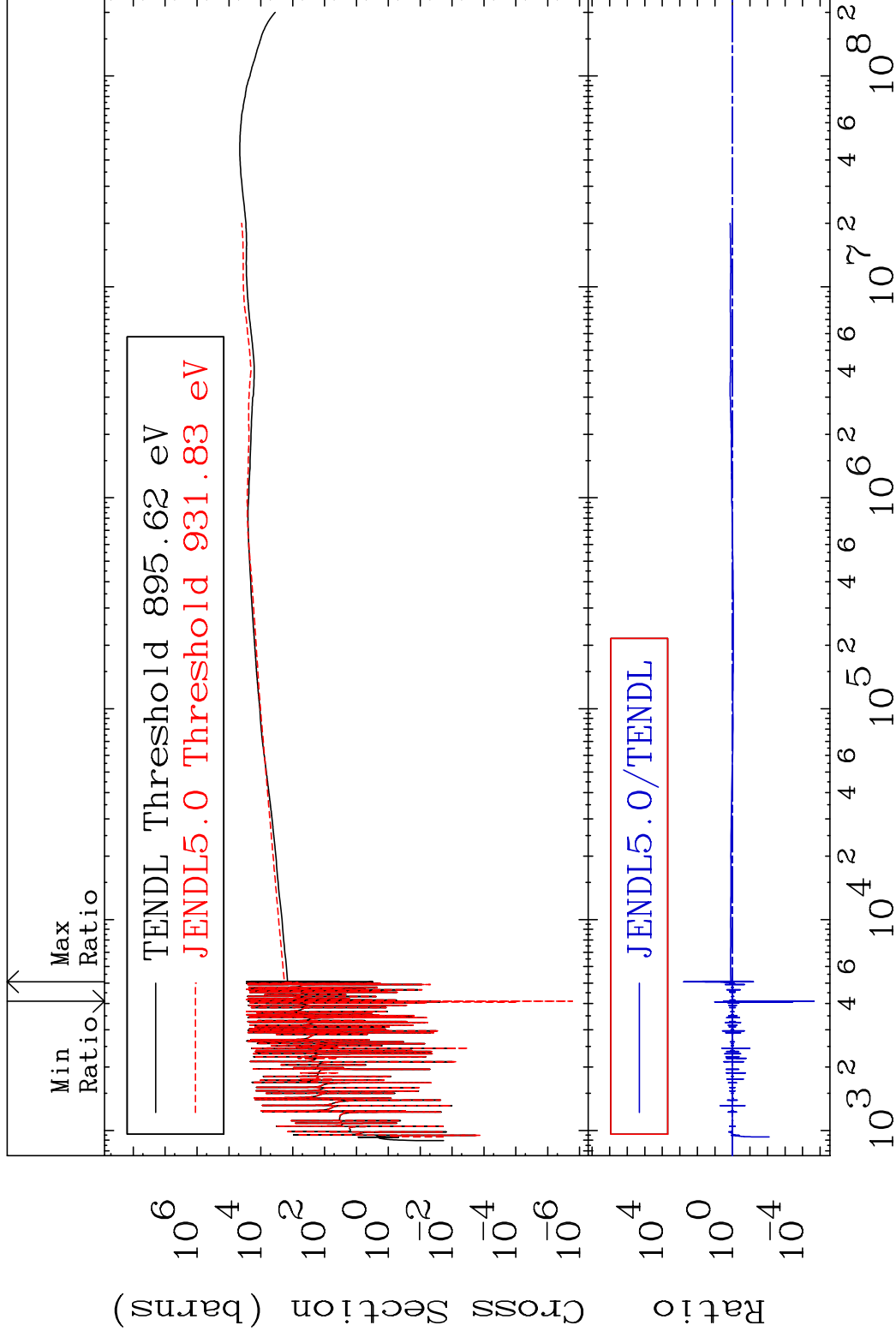


MAT 6249

Dpa elastic (mt2)

62-Sm-152

Cross Section -100.0 To 9999. %

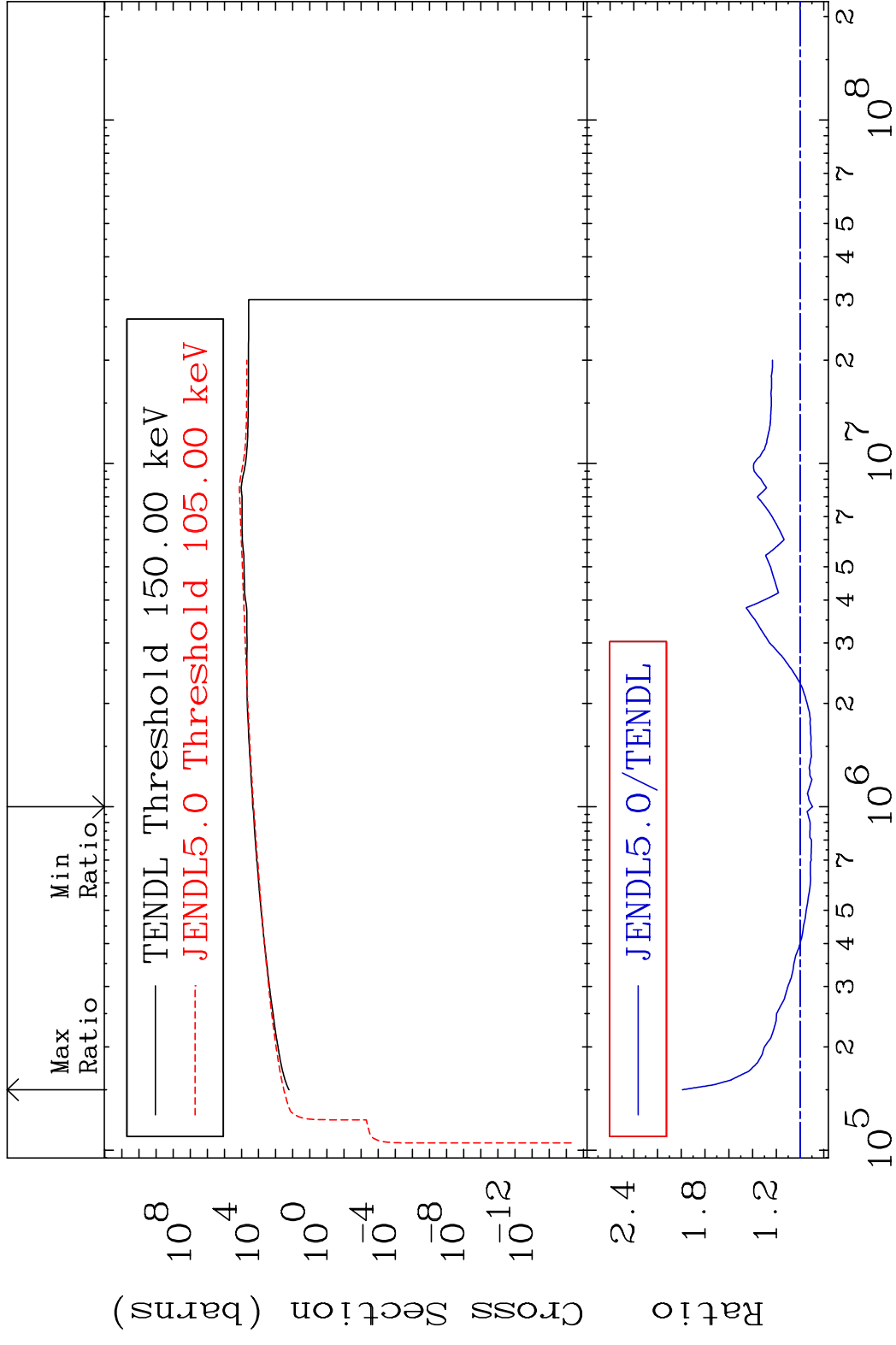


49

Incident Energy (eV)

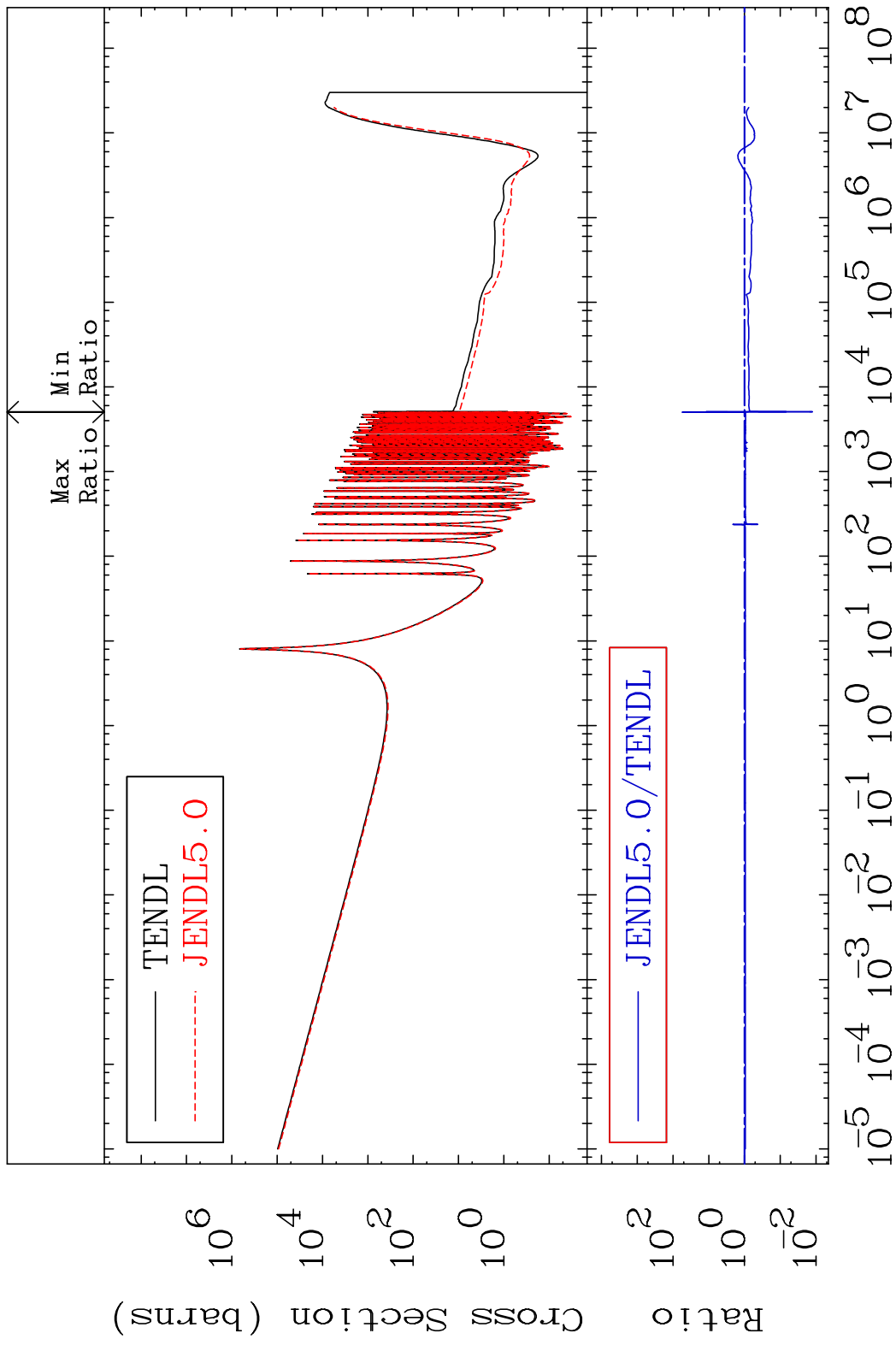
62-Sm-152

MAT 6249 Dpa inelastic (mt51-91) 62-Sm-152
 Cross Section -10.47 To 99.11 %

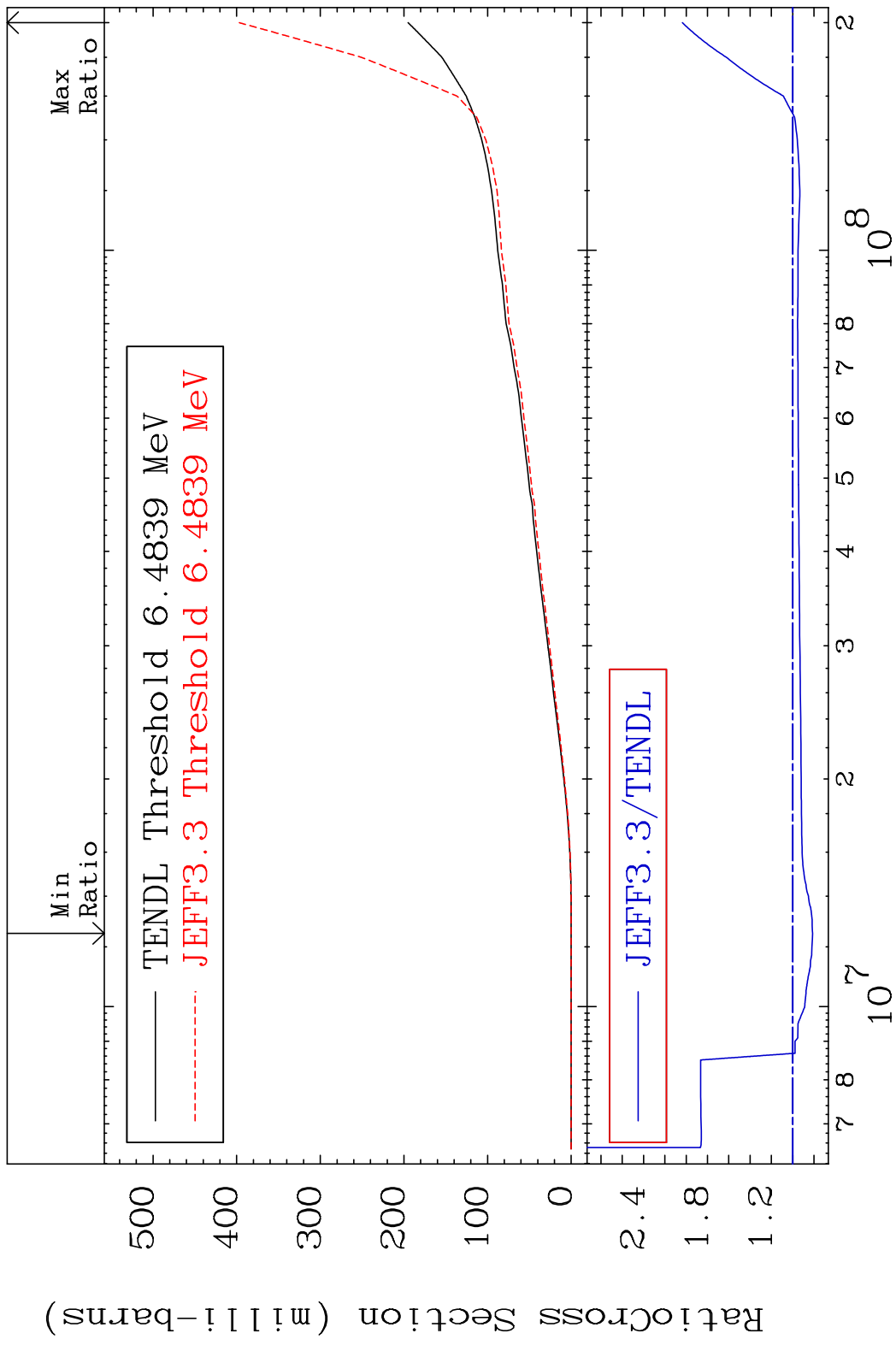


50 Incident Energy (eV) 62-Sm-152

MAT 6249 Dpa disappearance (mt102 -120) 62-Sm-152
 Cross Section -98.75 To 5365. %



MAT 6249 Deuterium Production 62-Sm-152
 Cross Section -18.67 To 103.6 %

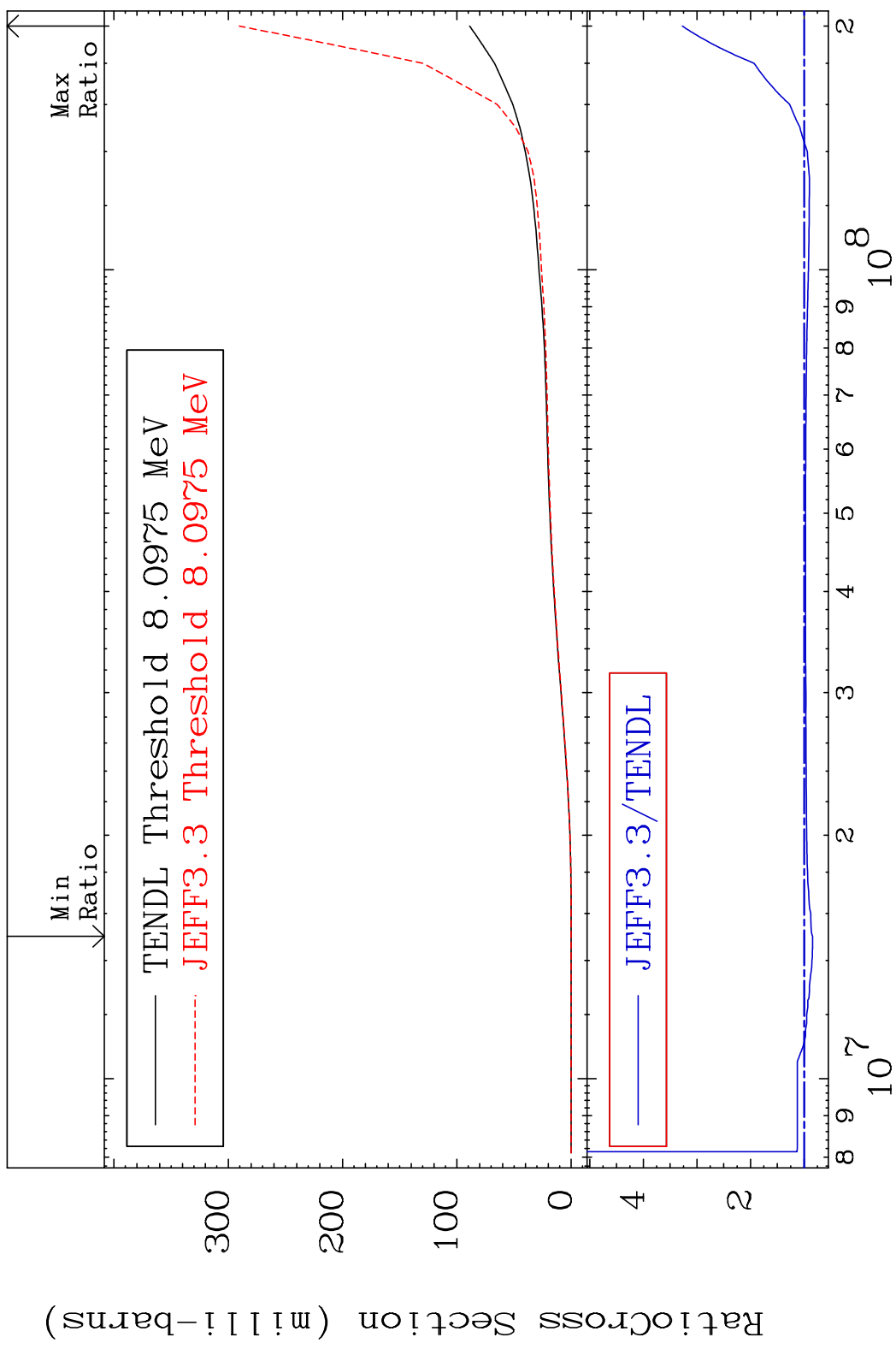


MAT 6249

Tritium Production

62-Sm-152

Cross Section -15.80 To 227.2 %

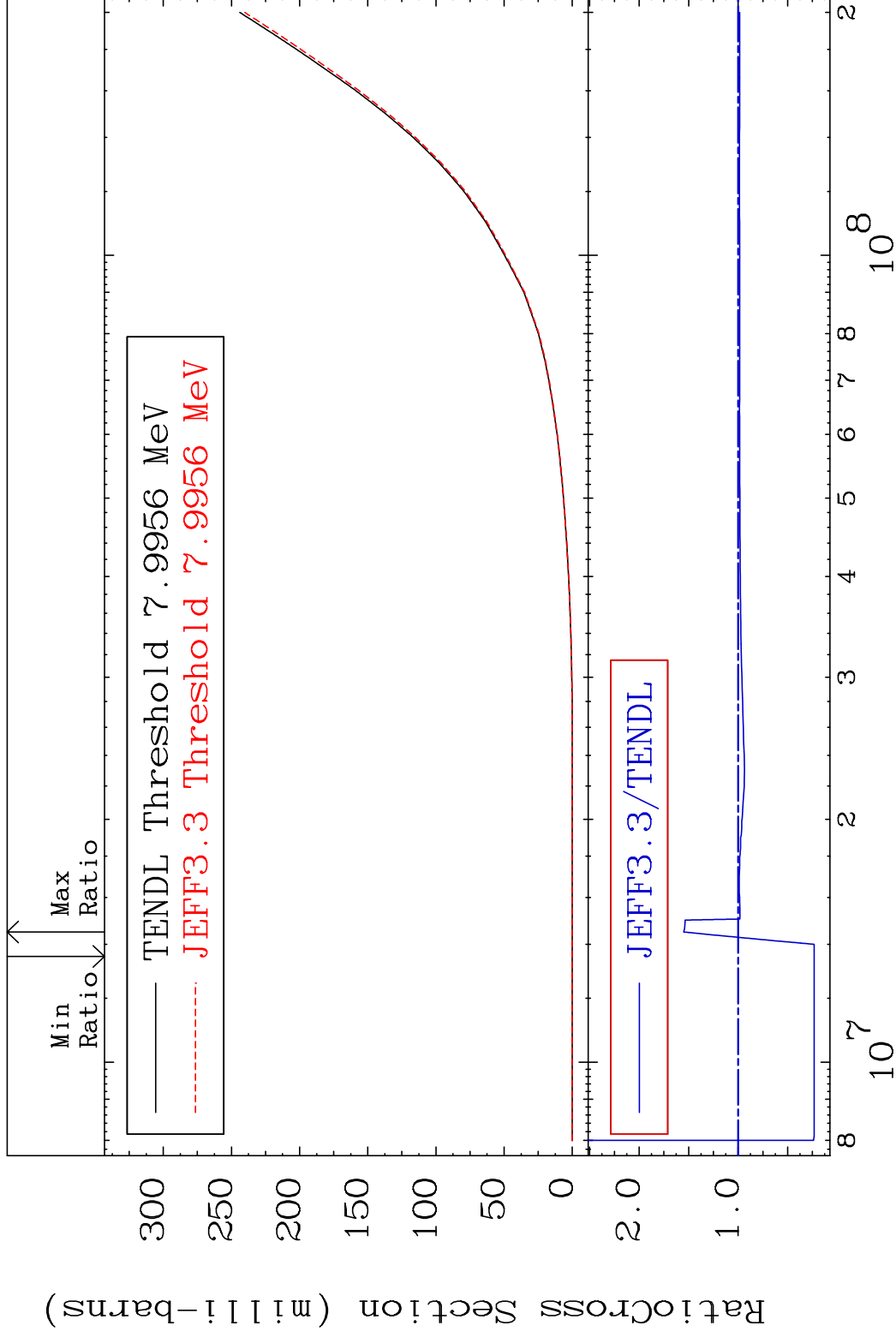


MAT 6249

He-3 Production

62-Sm-152

Cross Section -76.74 To 55.02 %



54

Incident Energy (eV)

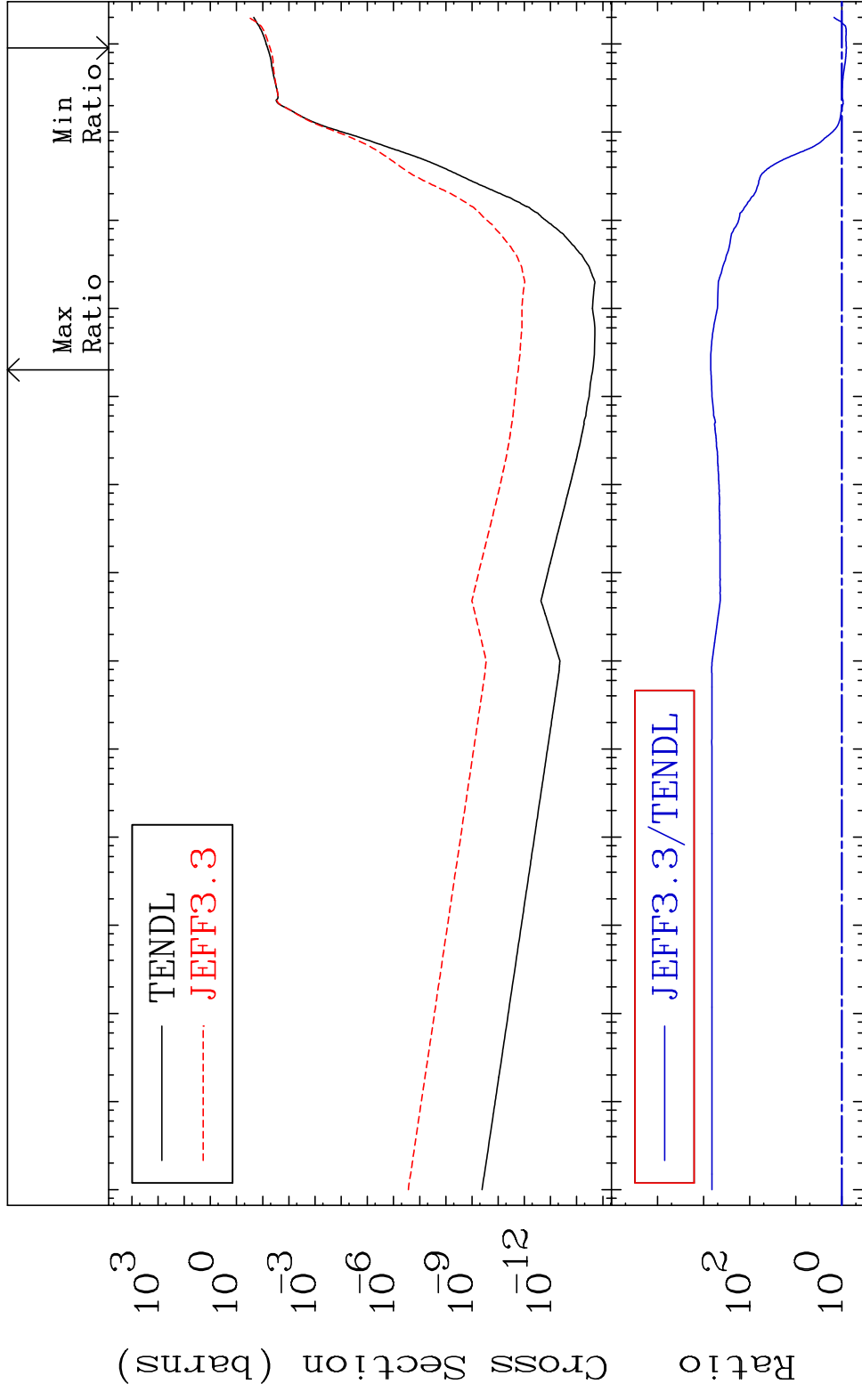
62-Sm-152

MAT 6249

He-4 Production

62-Sm-152

Cross Section -19.67 To 9999. %



Cross Section (barns)

Ratio

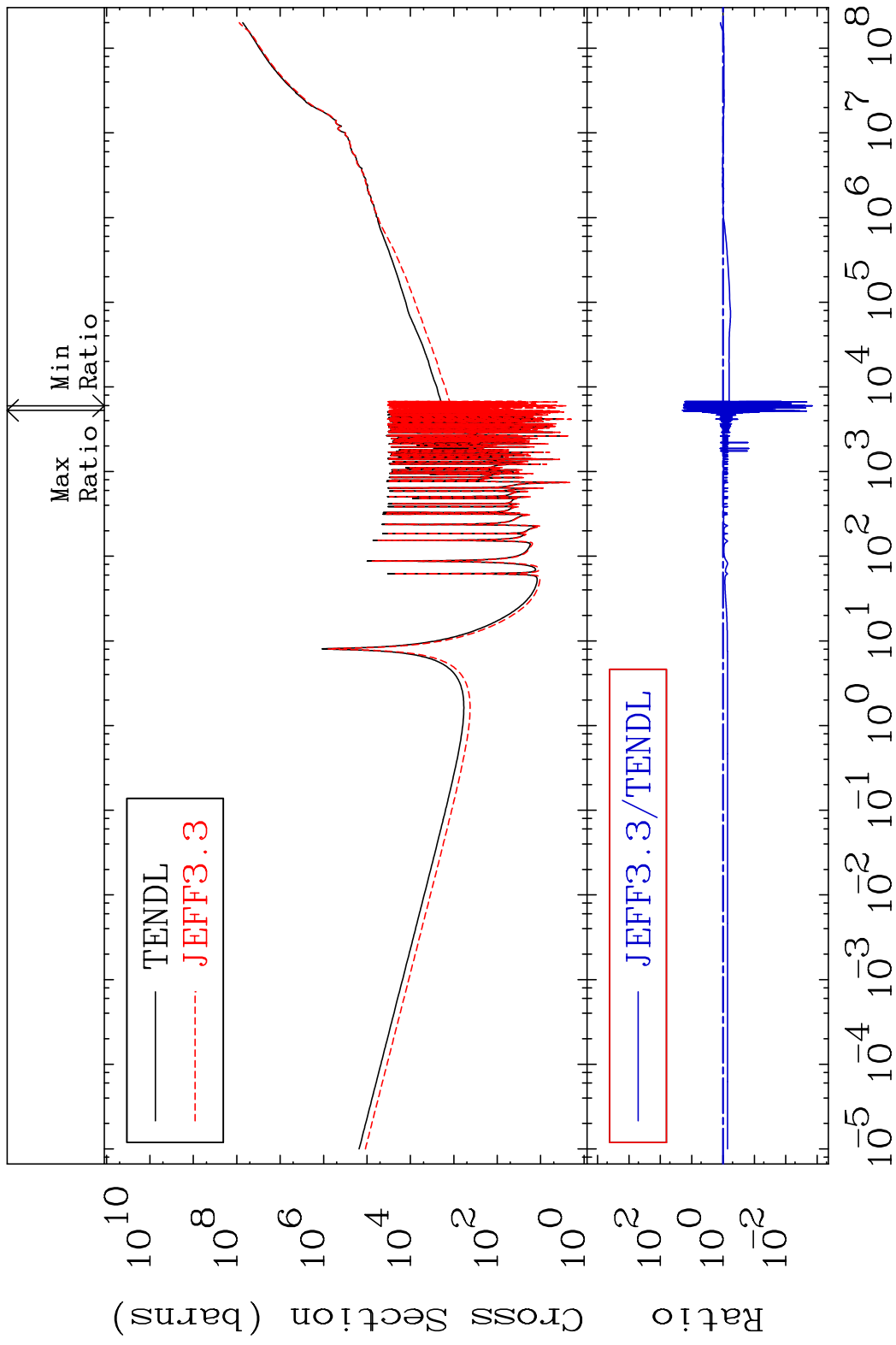
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

55

Incident Energy (eV)

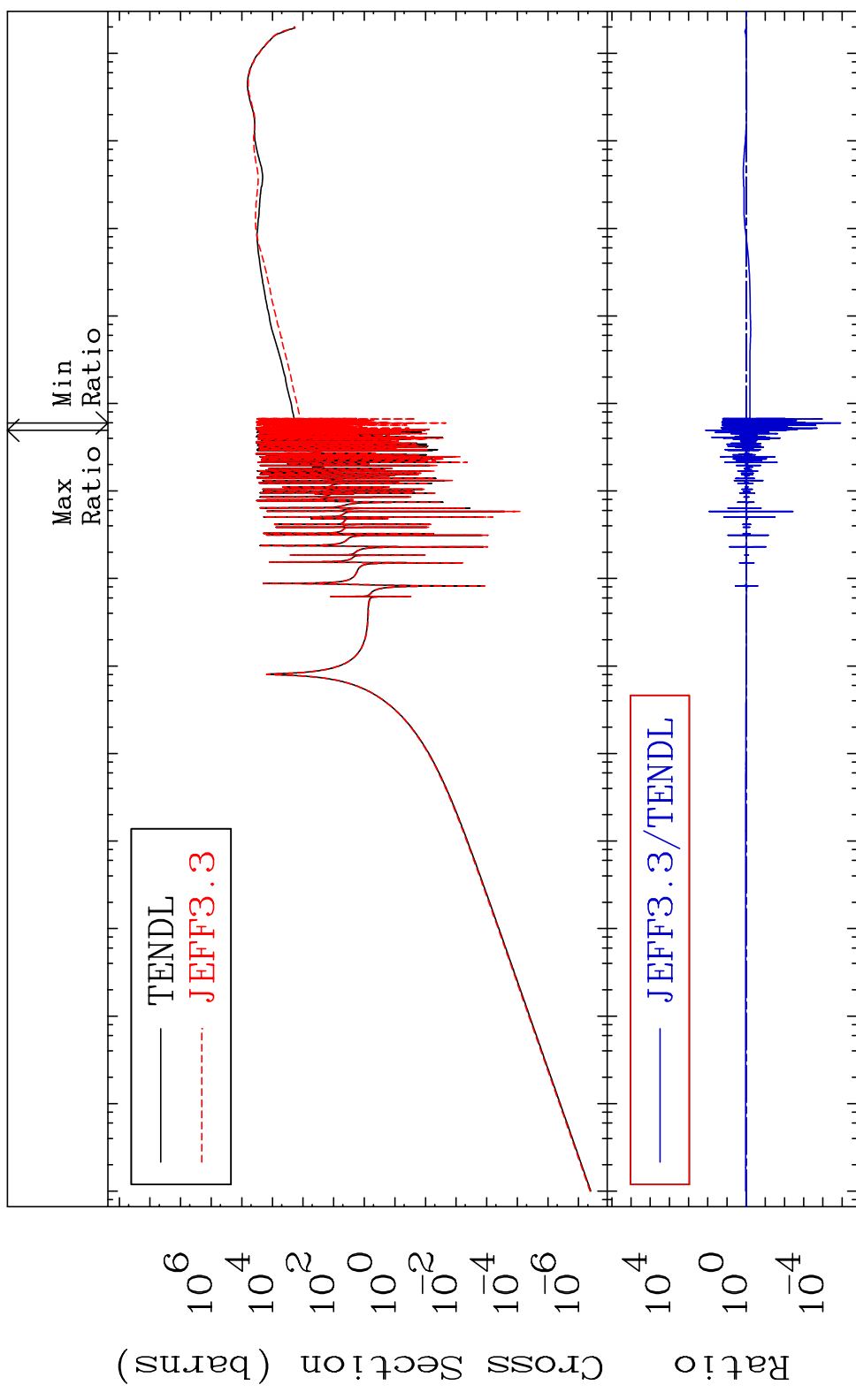
62-Sm-152

MAT 6249 Kerma total (eV-barns) 62-Sm-152
 Cross Section -99.86 To 1882. %



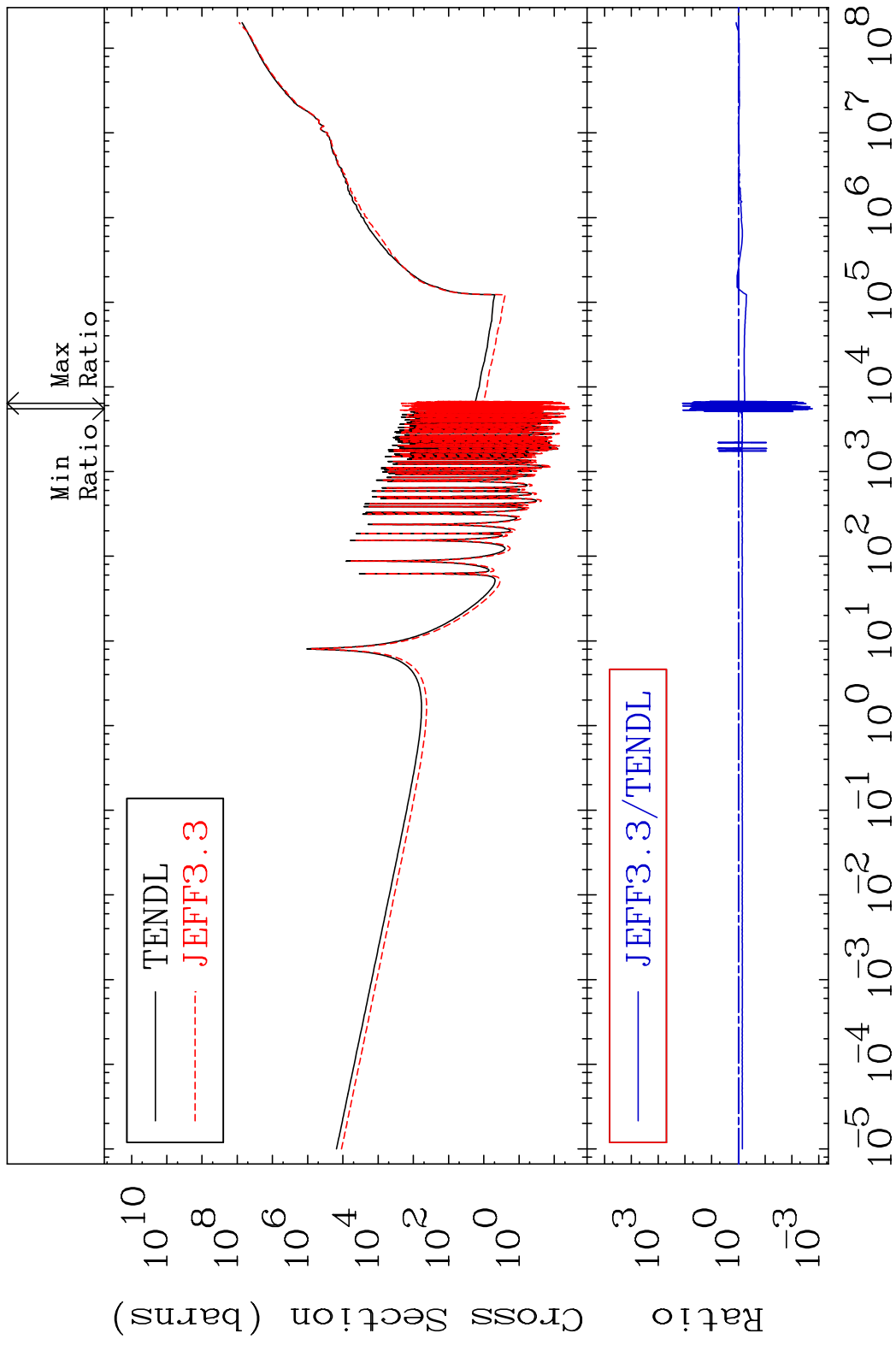
MAT 6249

Kerma elastic
Cross Section -100.0 To 9999. %
62-Sm-152

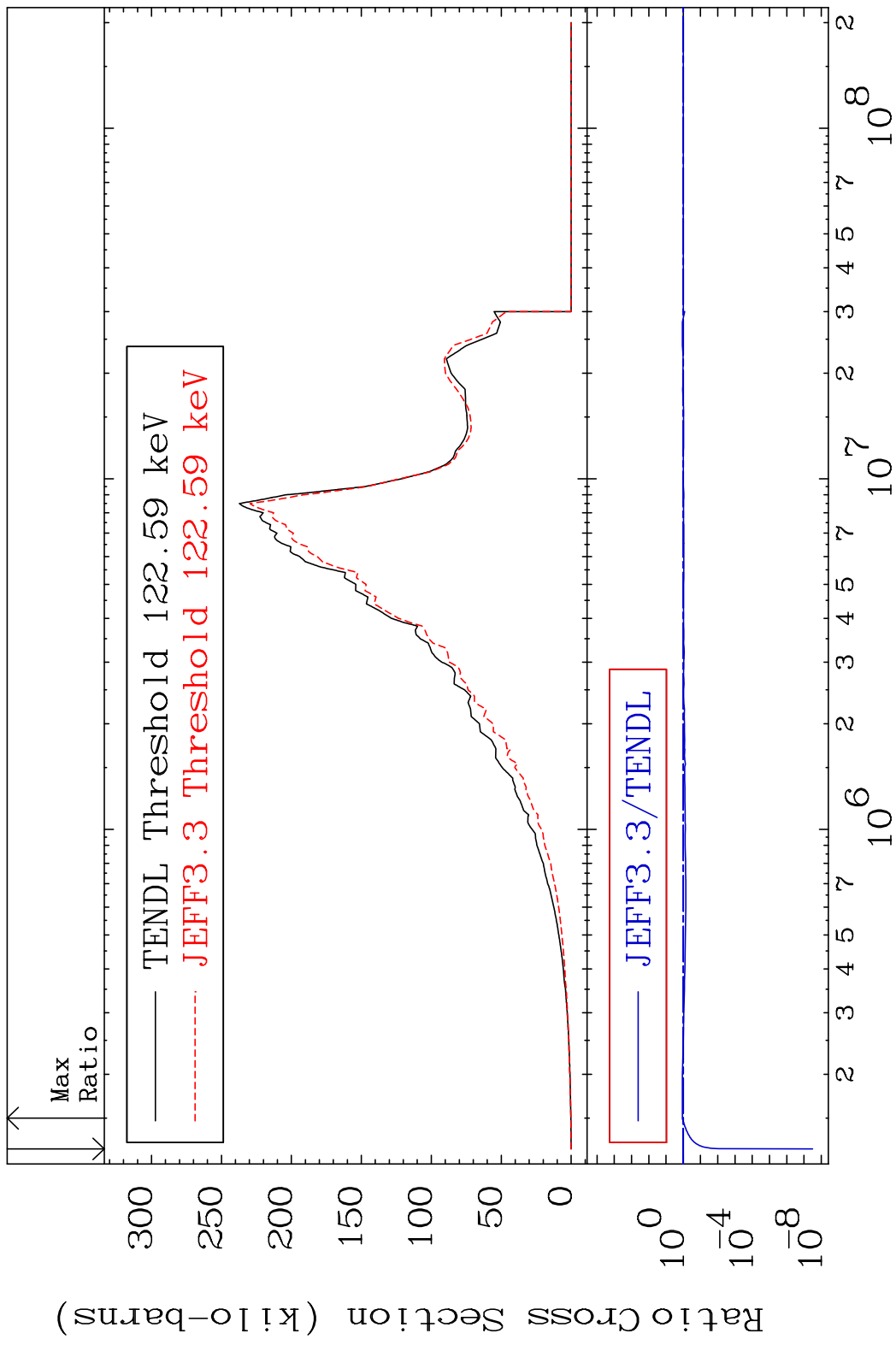


10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

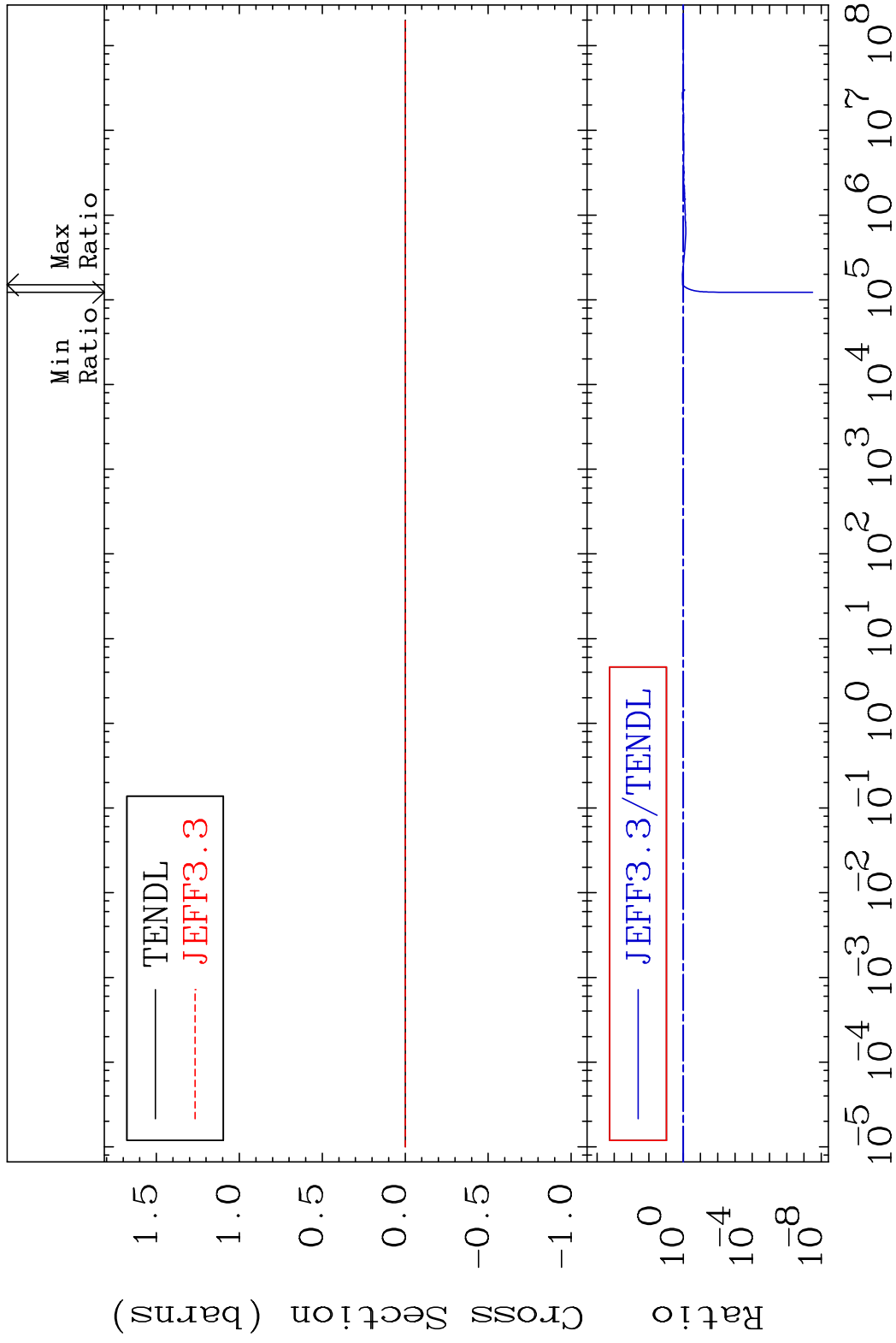
MAT 6249 Kerma non-elastic (all but mt2) 62-Sm-152
 Cross Section -99.83 To 9999. %



MAT 6249 Kerma inelastic (mt51-91) 62-Sm-152
 Cross Section -100.0 To 12.93 %

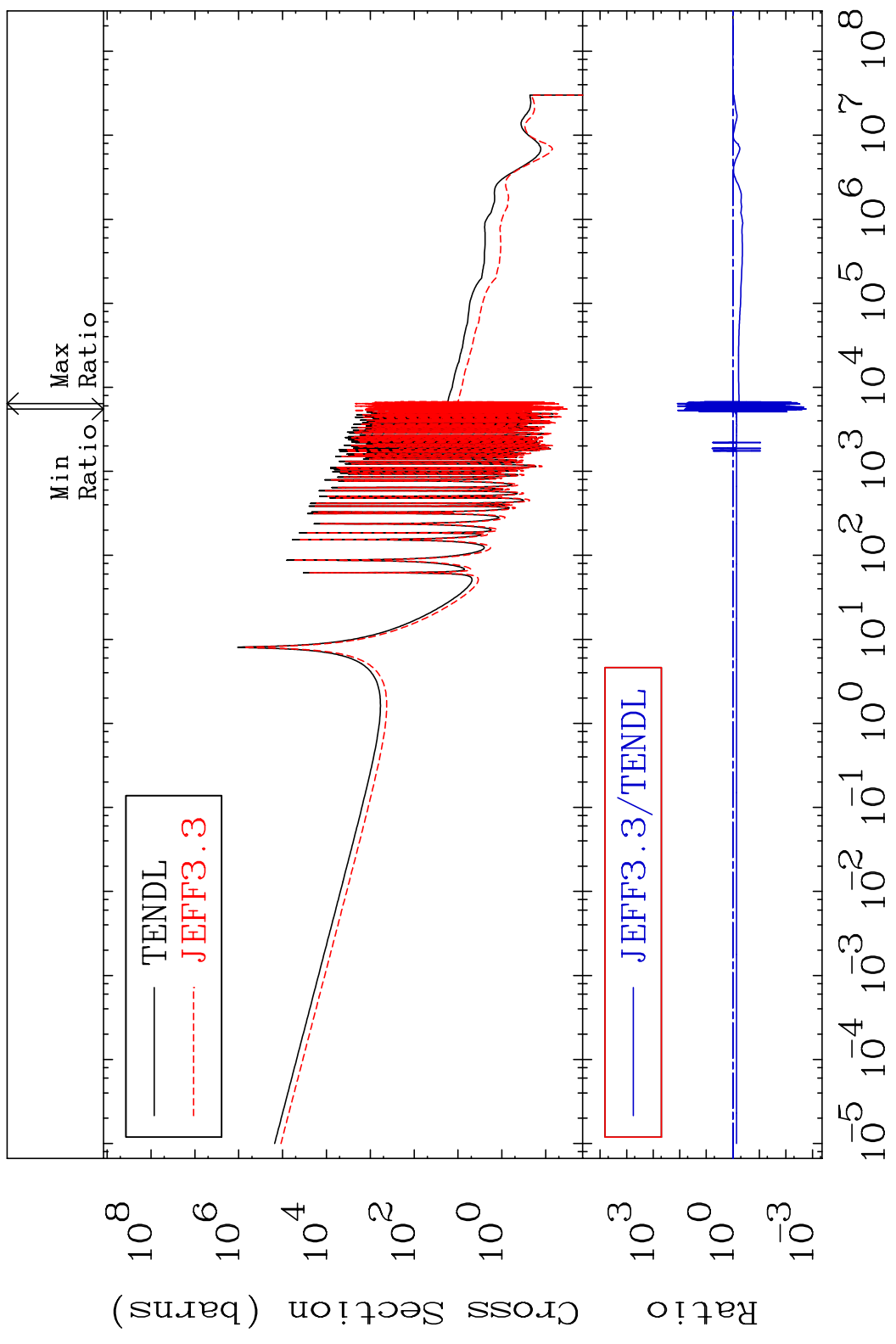


MAT 6249 Kerma fission (mt18 or mt19-20-21-38) 62-Sm-152
 Cross Section -100.0 To 12.93 %



MAT 6249

Kerma capture (mt102) 62-Sm-152
Cross Section -99.83 To 9999. %



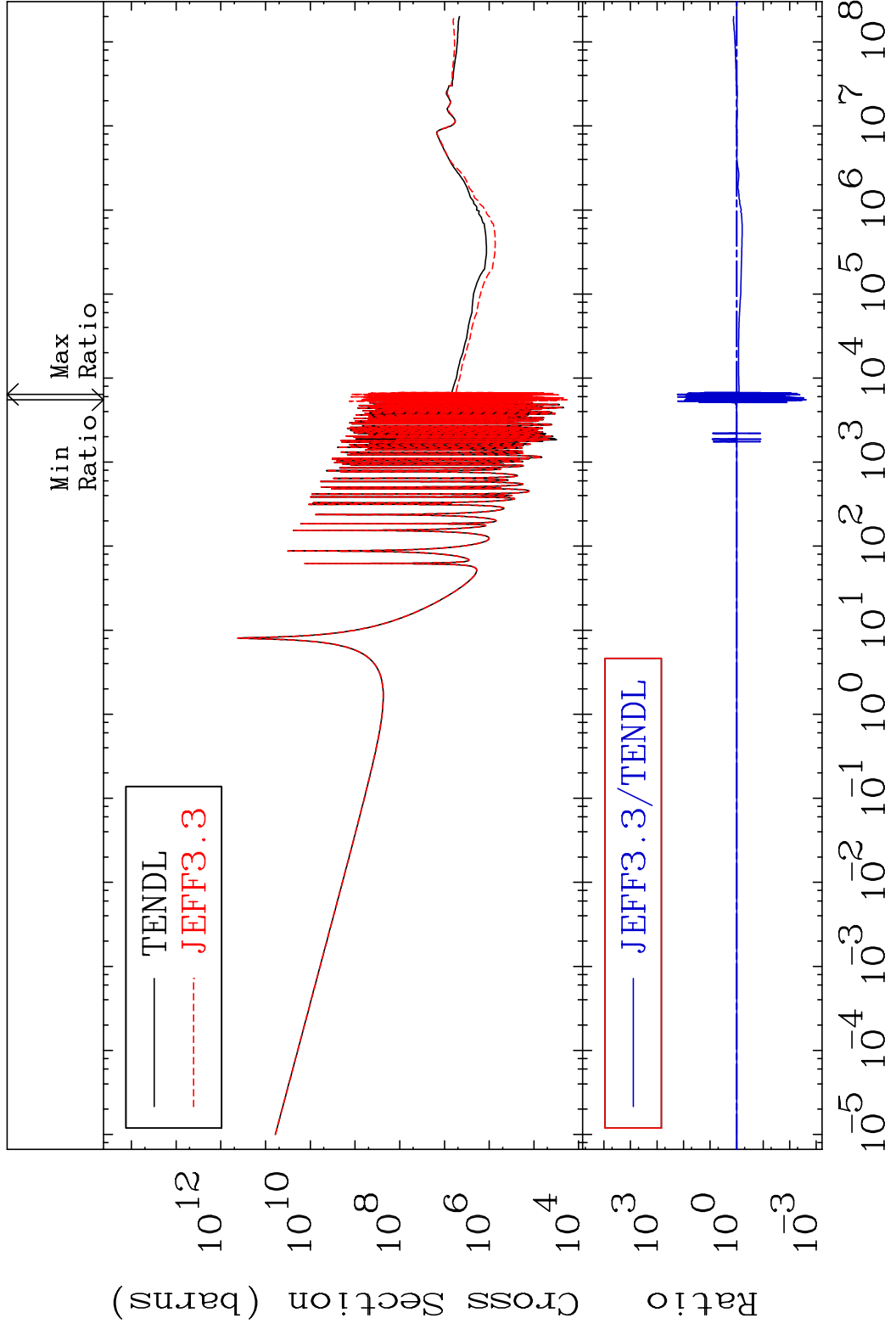
61

Incident Energy (eV)

62-Sm-152

MAT 6249

Total photon (eV-barns) 62-Sm-152
Cross Section -99.76 To 9999. %

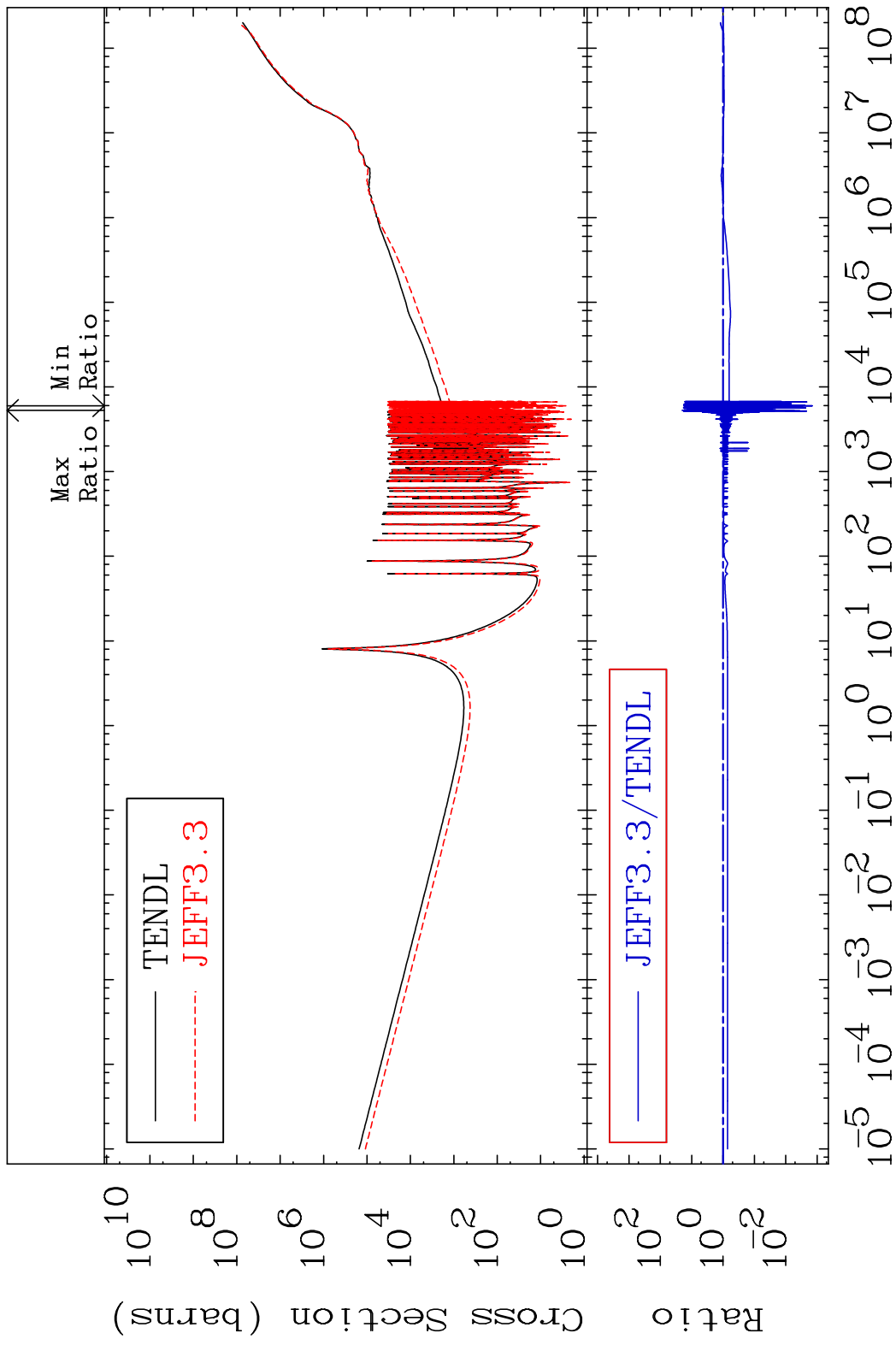


62

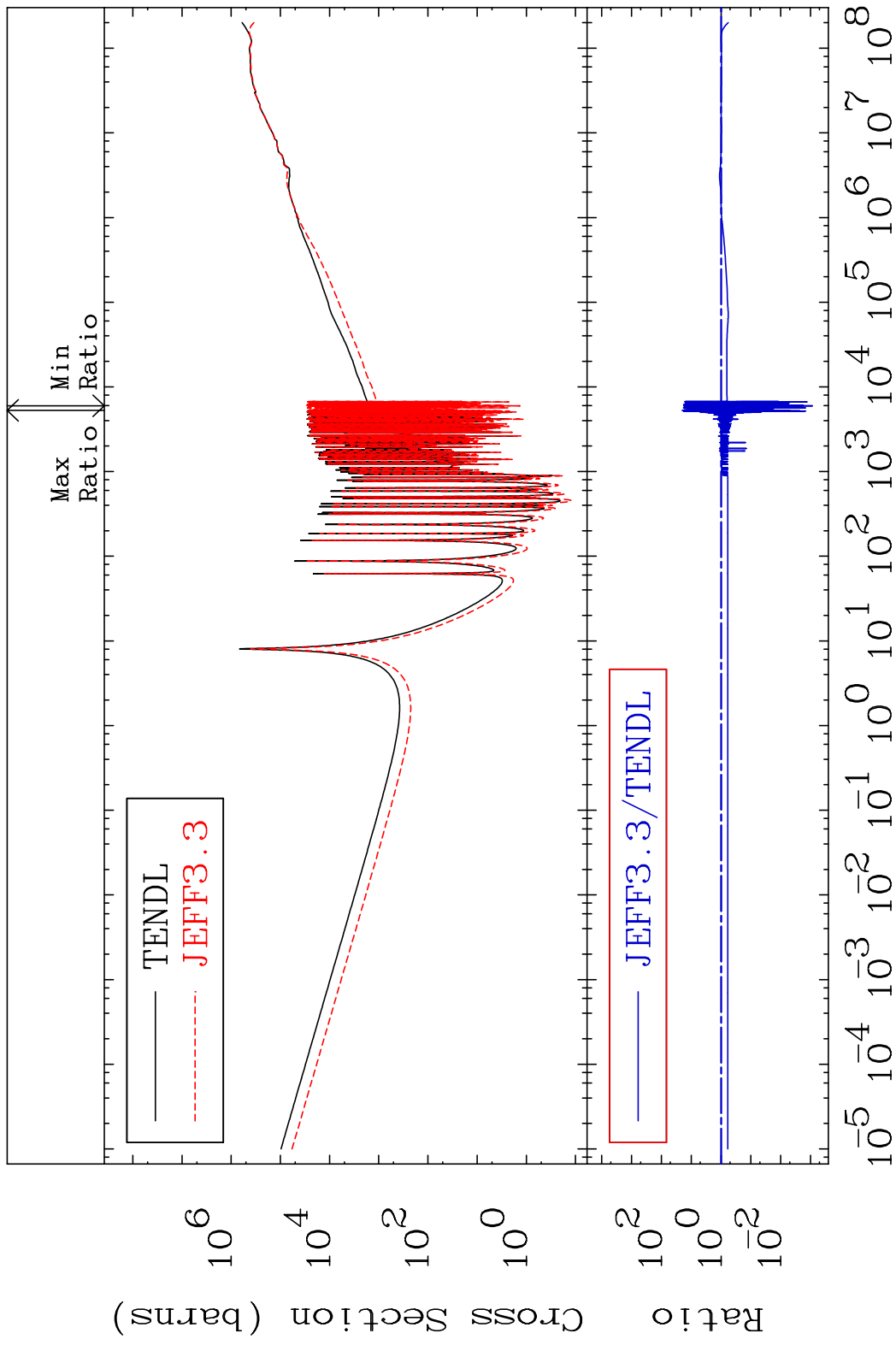
Incident Energy (eV)

62-Sm-152

MAT 6249 Total kinematic kerma (high limit) 62-Sm-152
 Cross Section -99.86 To 1882. %



MAT 6249 Dpa total (eV-barns) 62-Sm-152
 Cross Section -99.91 To 1888. %

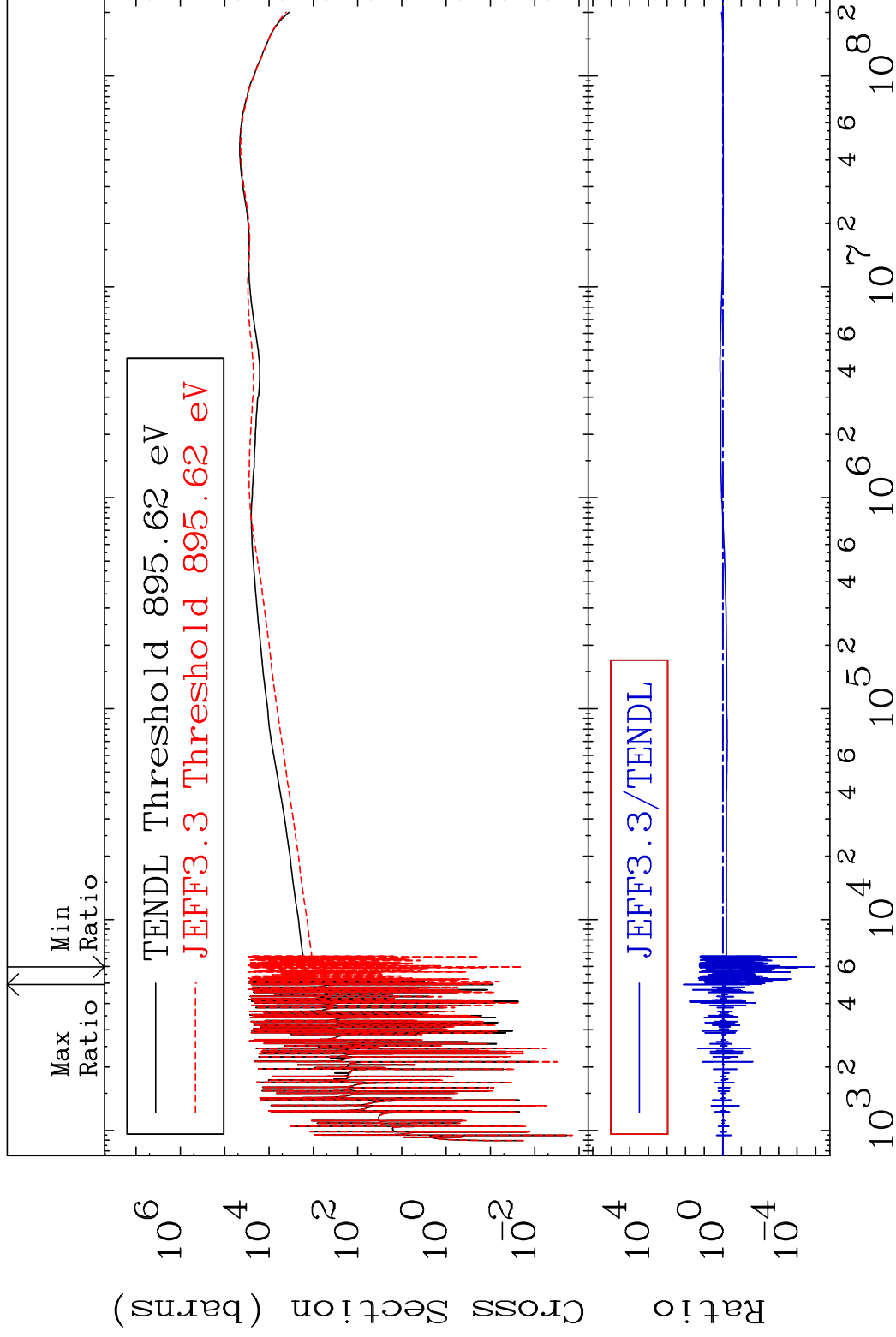


MAT 6249

Dpa elastic (mt2)

62-Sm-152

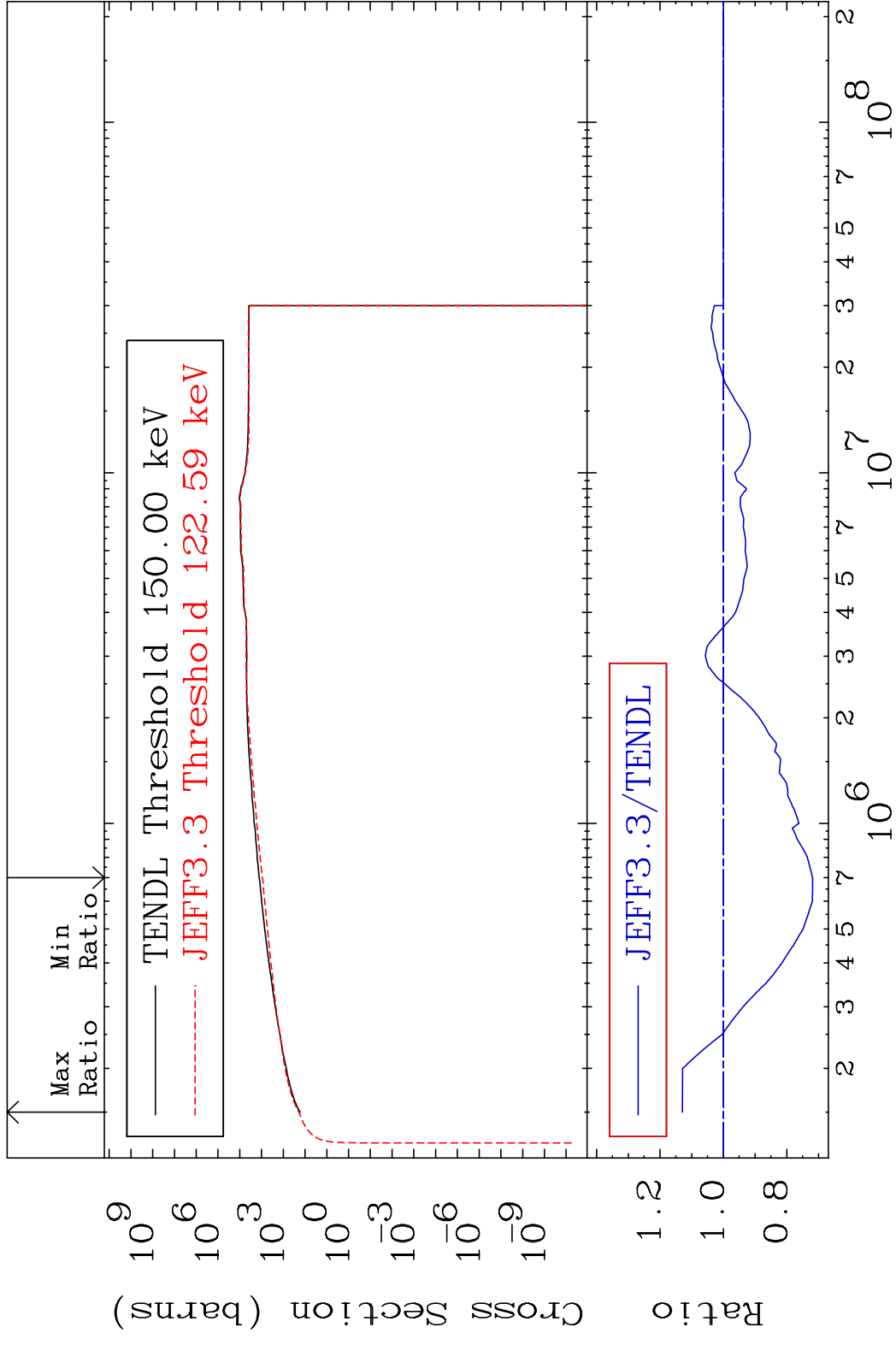
Cross Section -100.0 To 9999. %



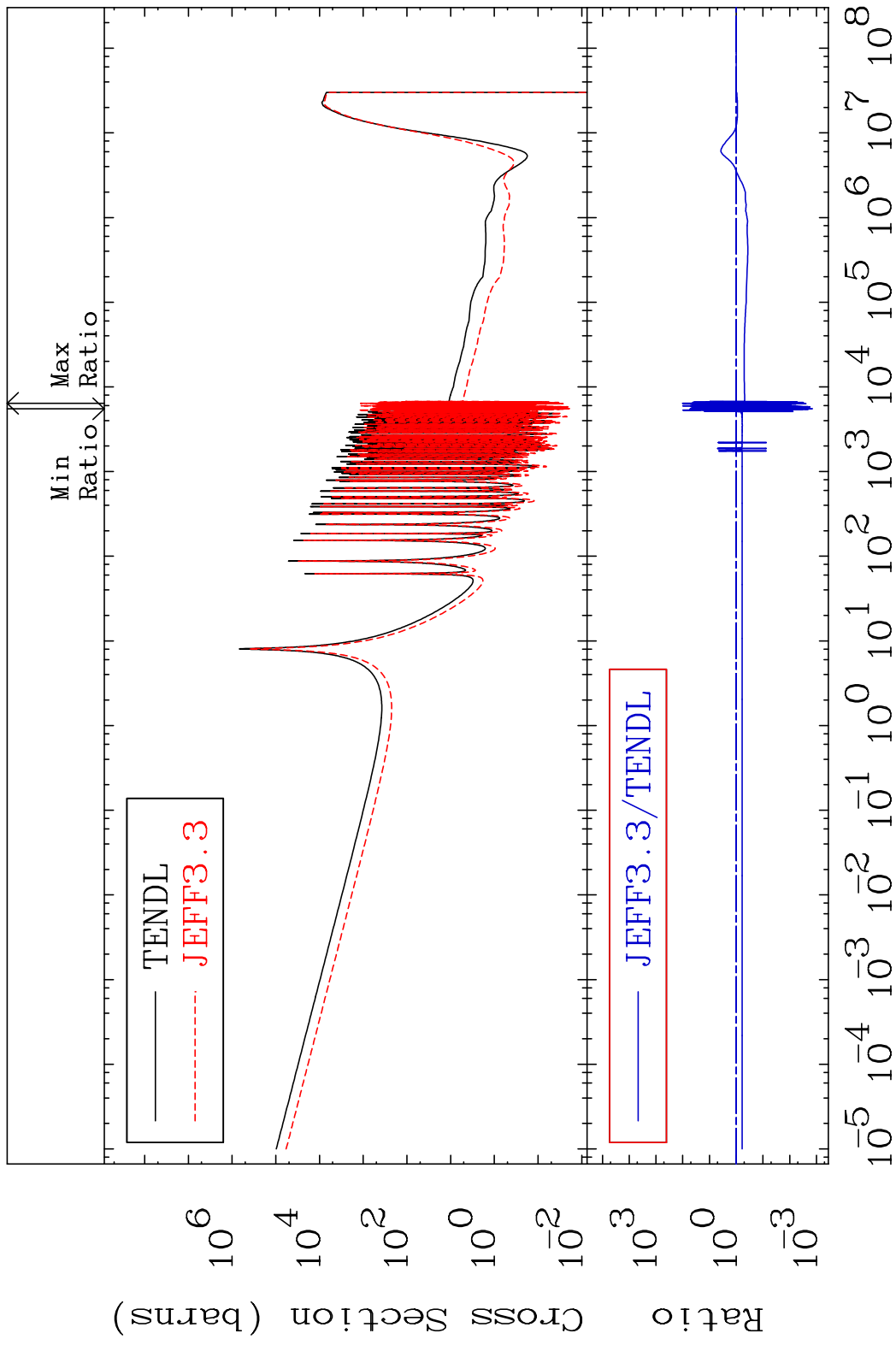
65

Incident Energy (eV)

62-Sm-152



MAT 6249 Dpa disappearance (mt102 -120) 62-Sm-152
 Cross Section -99.86 To 9999. %



MAT 6249 (n,p):61-Pm-152g 62-Sm-152
 Radionuclide Production Cross Section 121.4 %

