

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

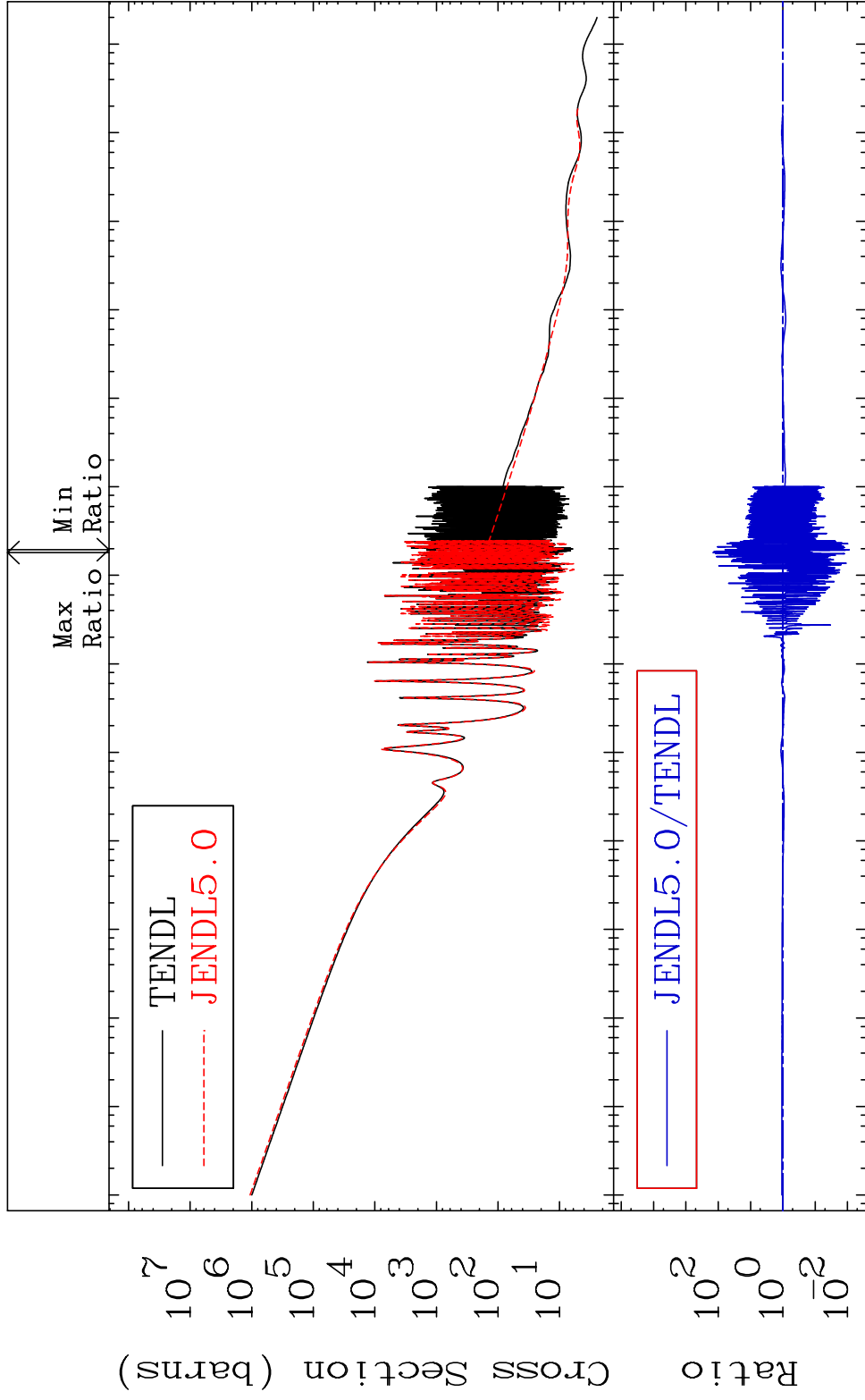
MAT 6246

Total

62-Sm-151

Cross Section

-99.12 To 9999. %

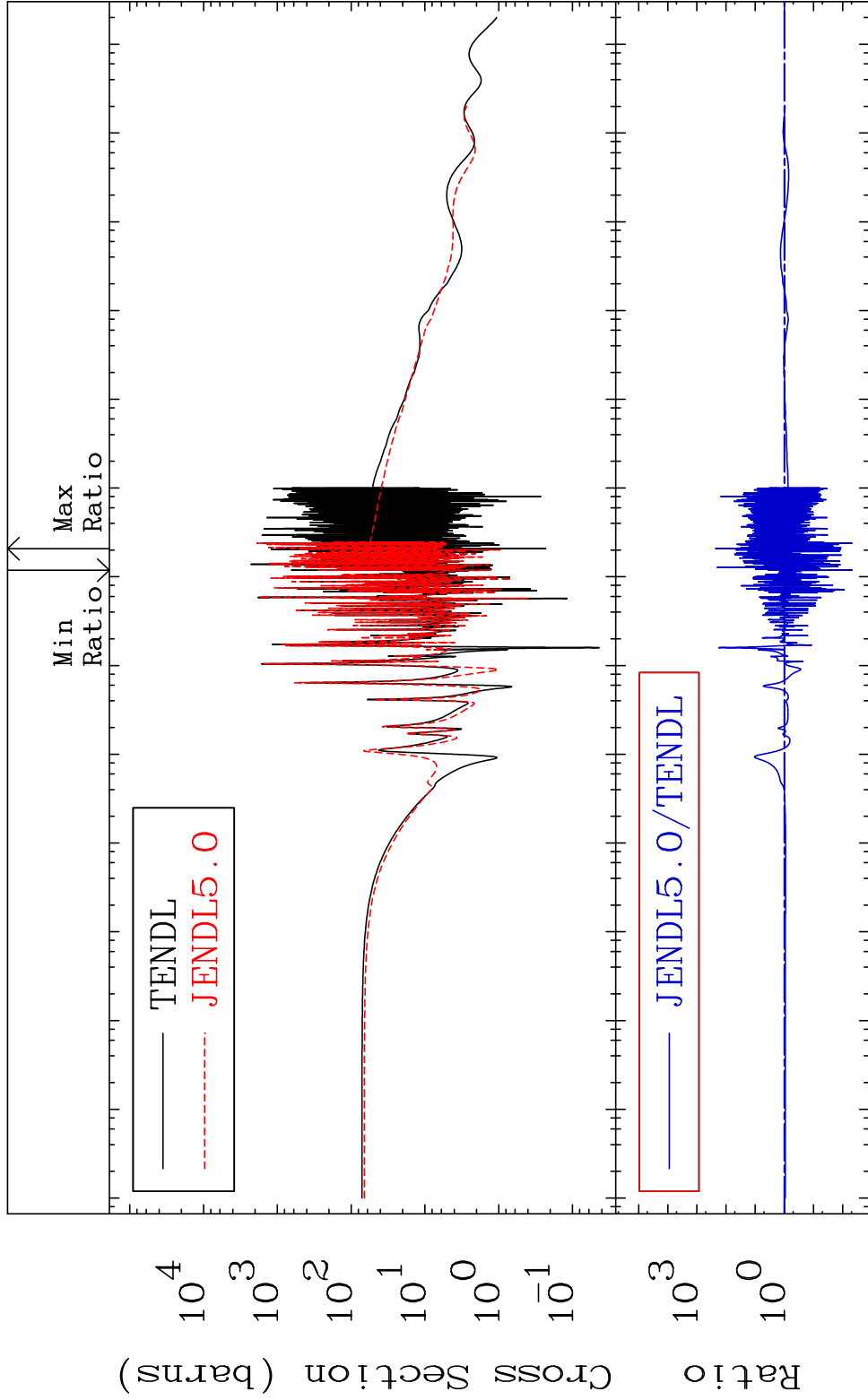


MAT 6246

Elastic

62-Sm-151

Cross Section -99.53 To 9999. %

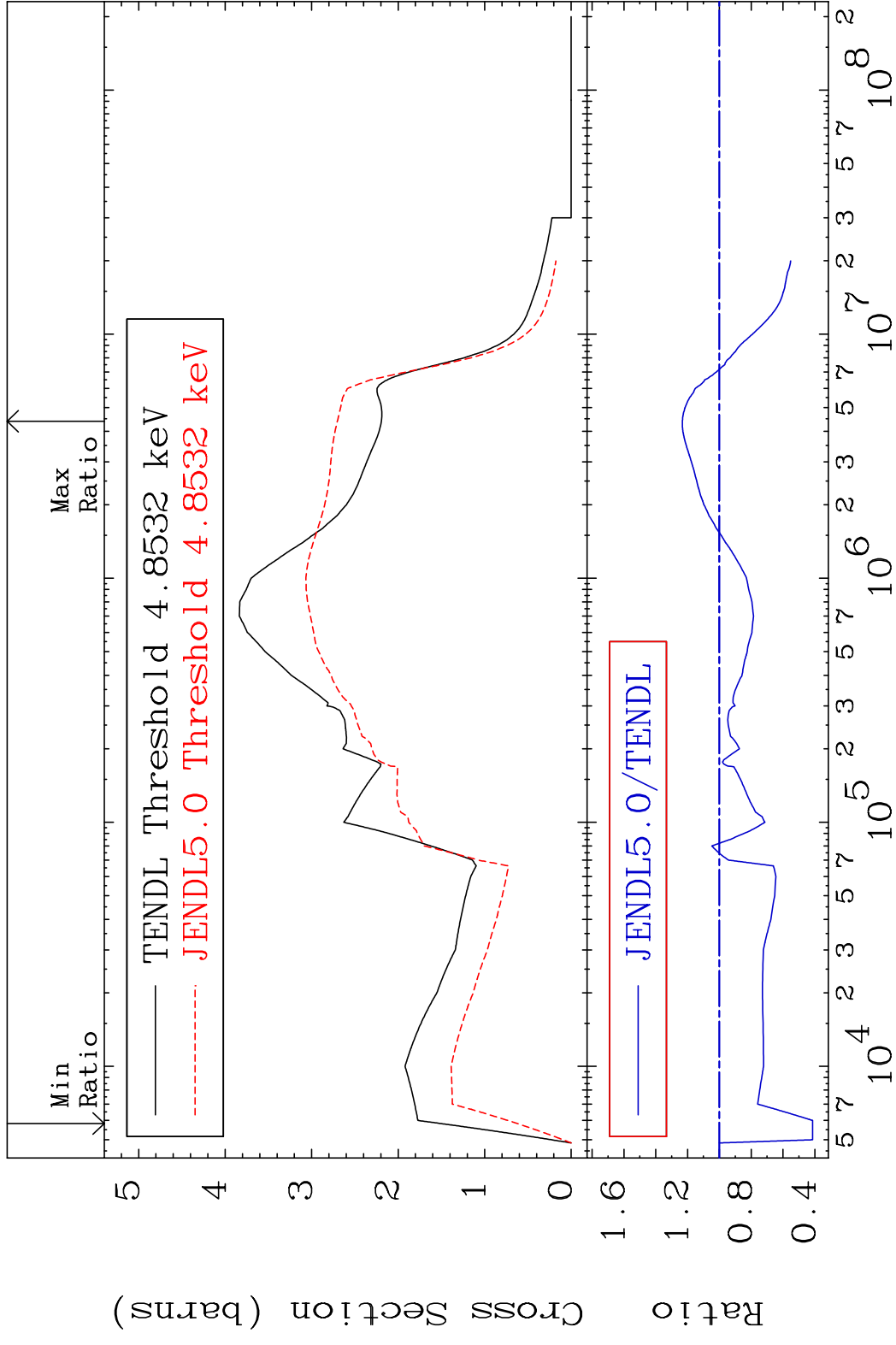


2

Incident Energy (eV)

62-Sm-151

MAT 6246 Inelastic Cross Section 62-Sm-151
 -58.60 To 23.25 %

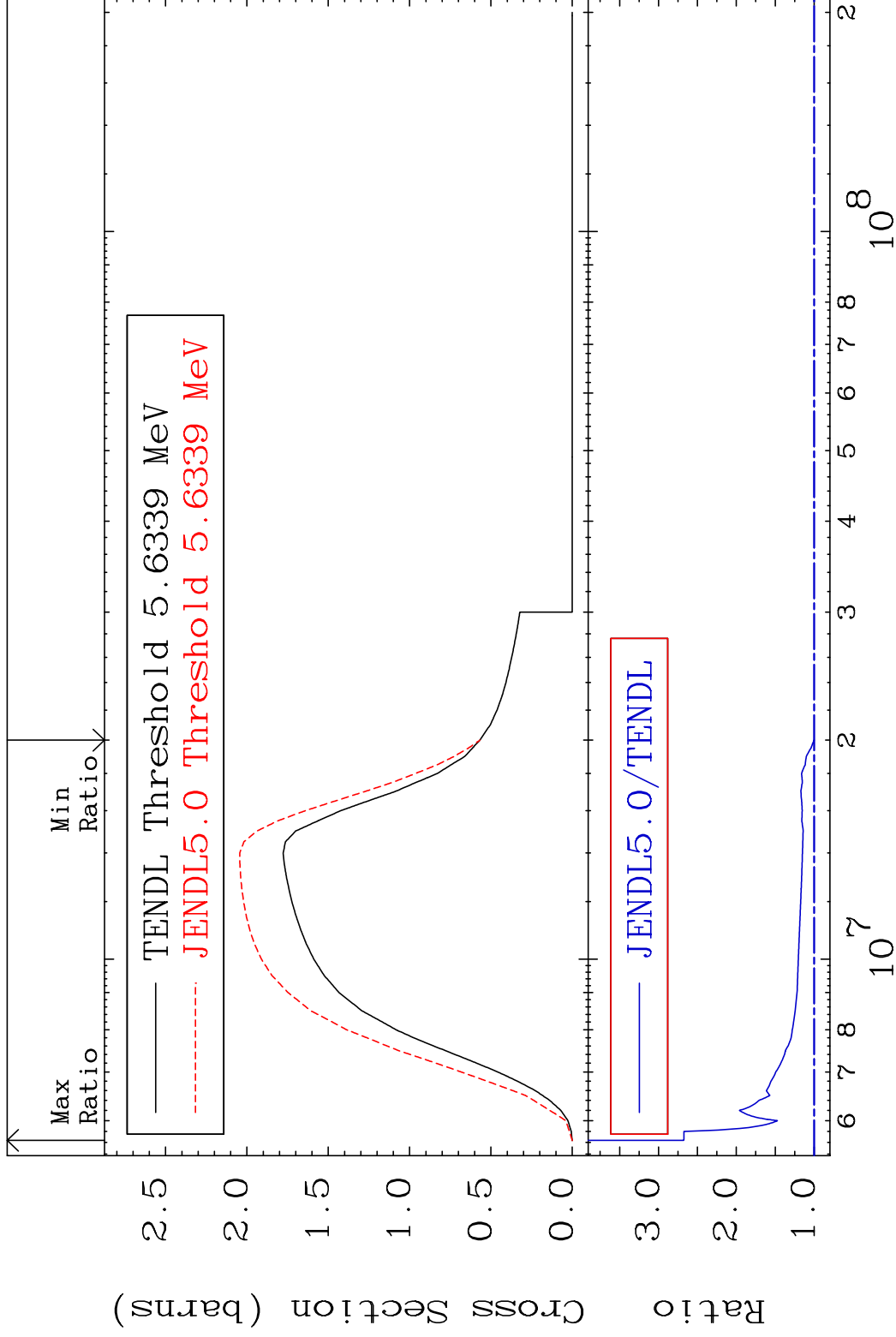


MAT 6246

(n,2n)

62-Sm-151

Cross Section -0.015 To 167.7 %



62-Sm-151

Incident Energy (eV)

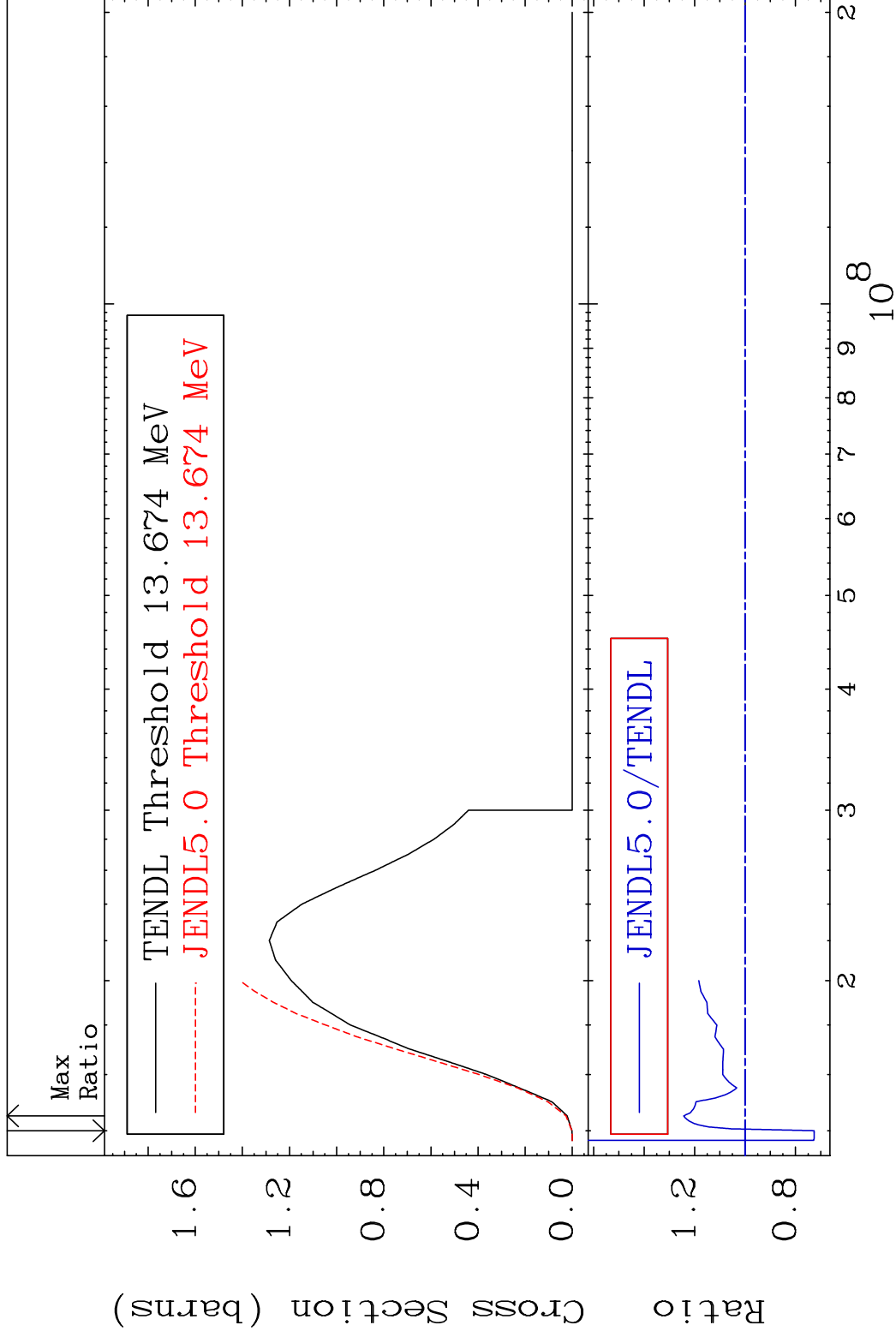
4

MAT 6246

(n,3n)

62-Sm-151

Cross Section -27.38 To 24.34 %



5

Incident Energy (eV)

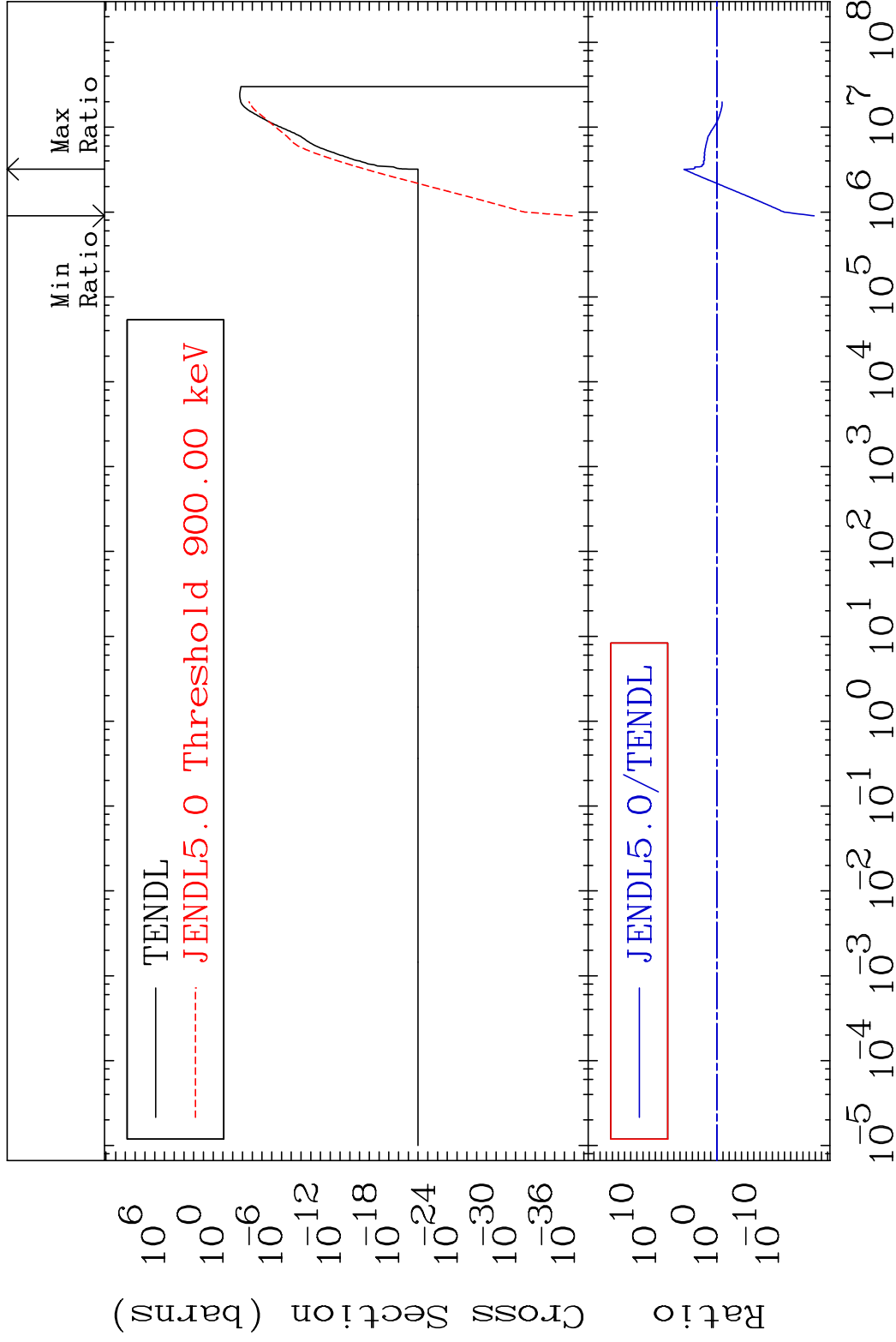
62-Sm-151

MAT 6246

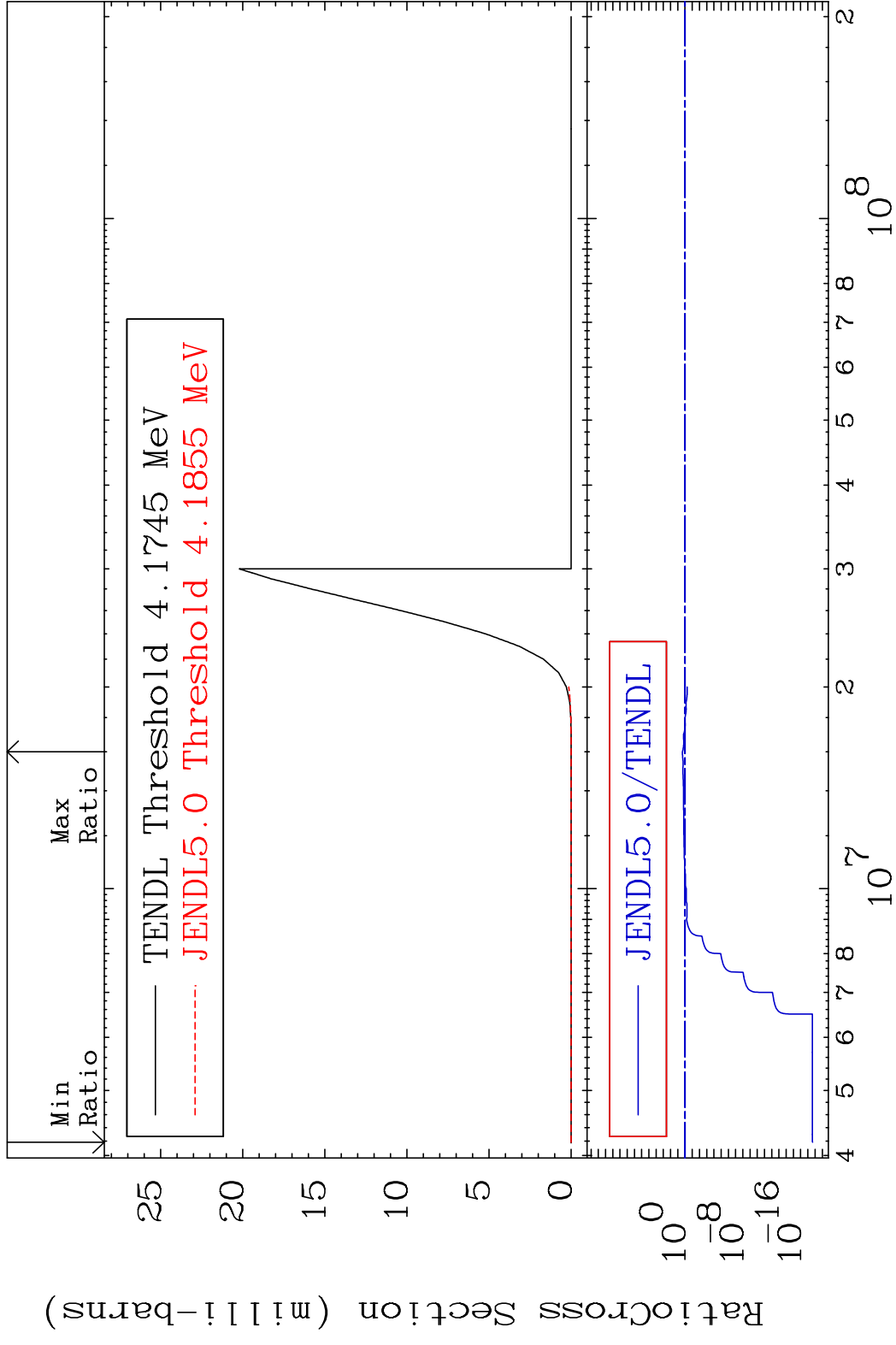
(n, n') α

62-Sm-151

Cross Section -100.0 To 9999. %



MAT 6246 (n,2n) α 62-Sm-151
 Cross Section -100.0 To 133.2 %

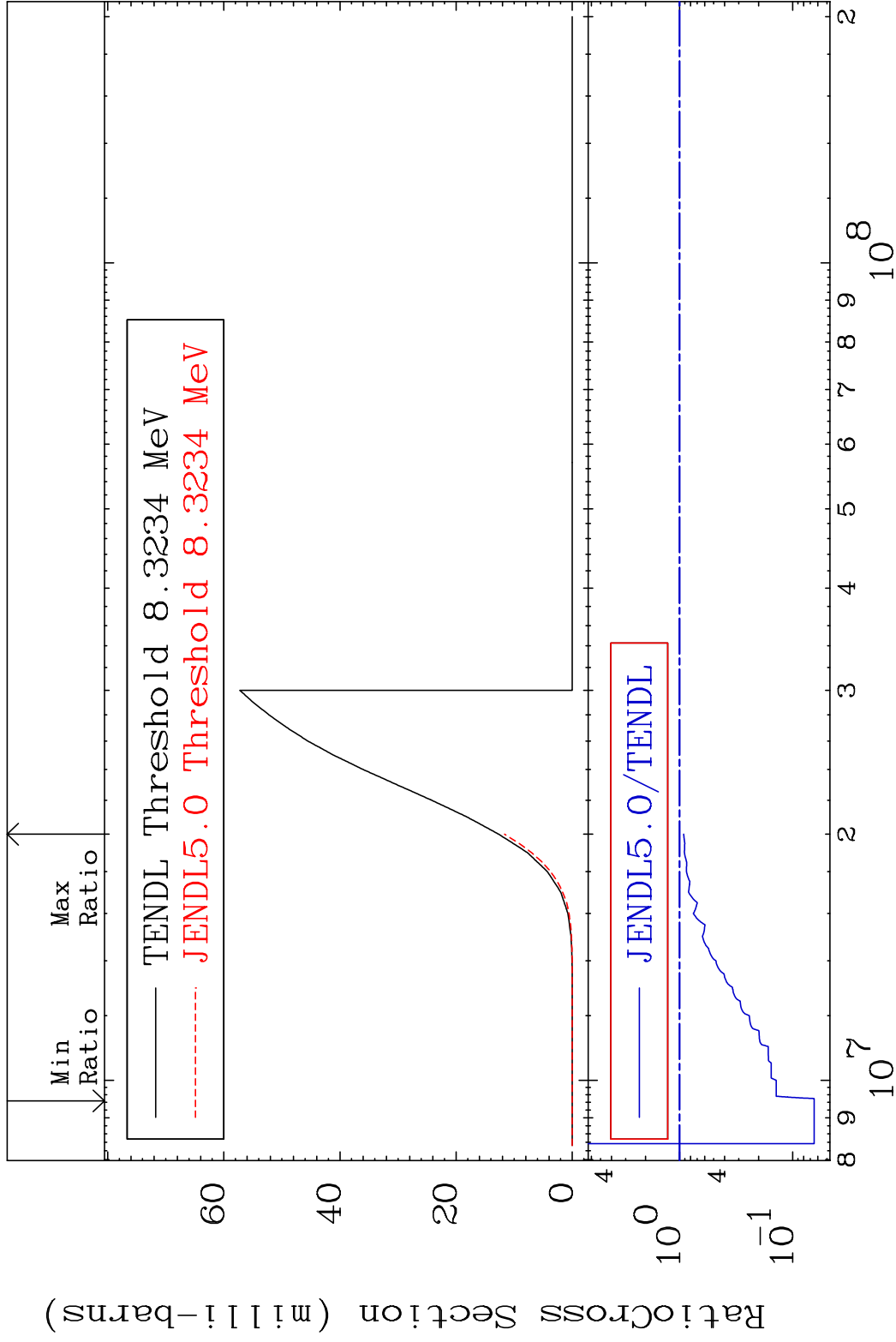


7 Incident Energy (eV) 62-Sm-151

MAT 6246

(n, n') p 62-Sm-151

Cross Section -93.52 To -7.974%



8

Incident Energy (eV)

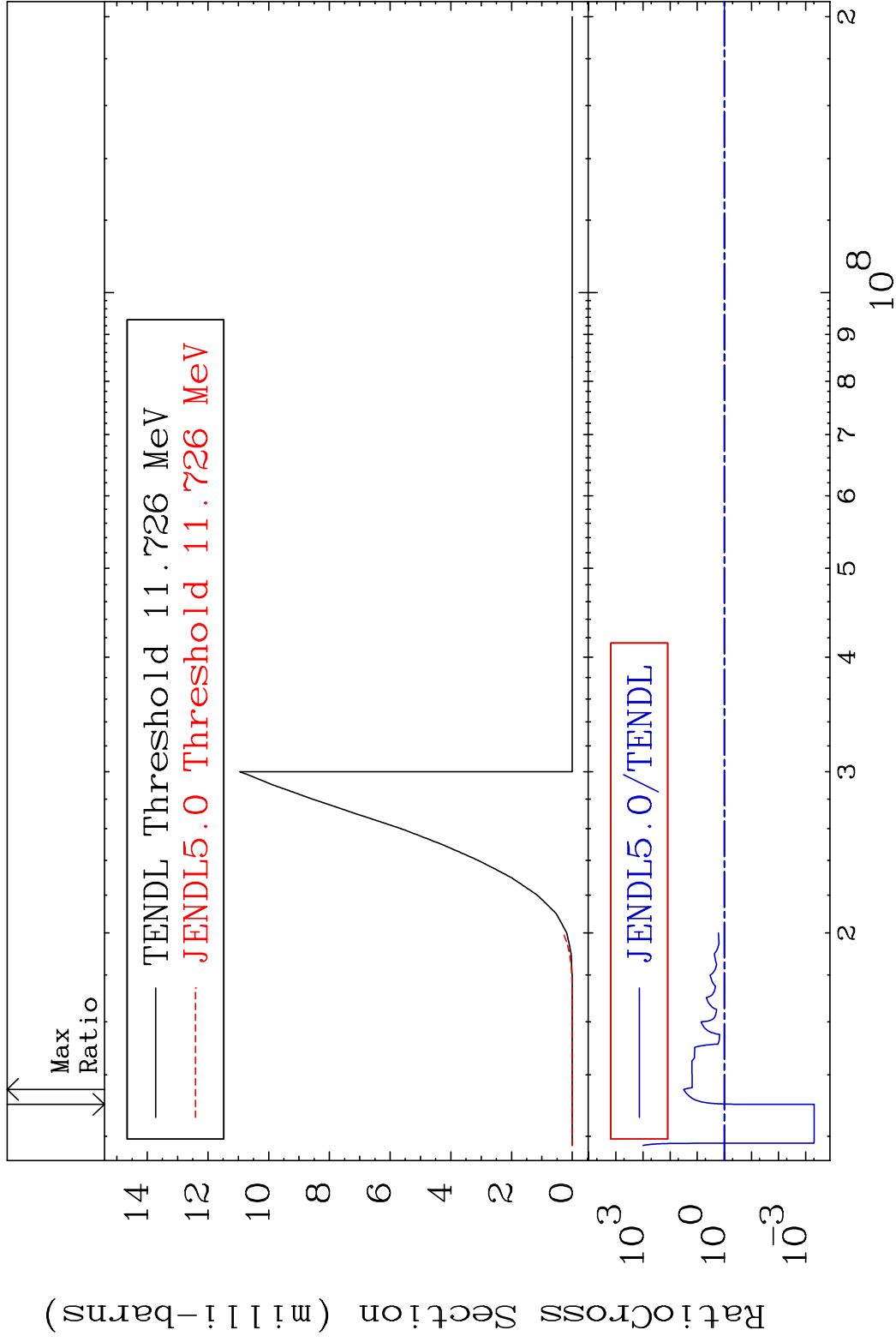
62-Sm-151

MAT 6246

(n, n') d

62-Sm-151

Cross Section -99.95 To 3063. %

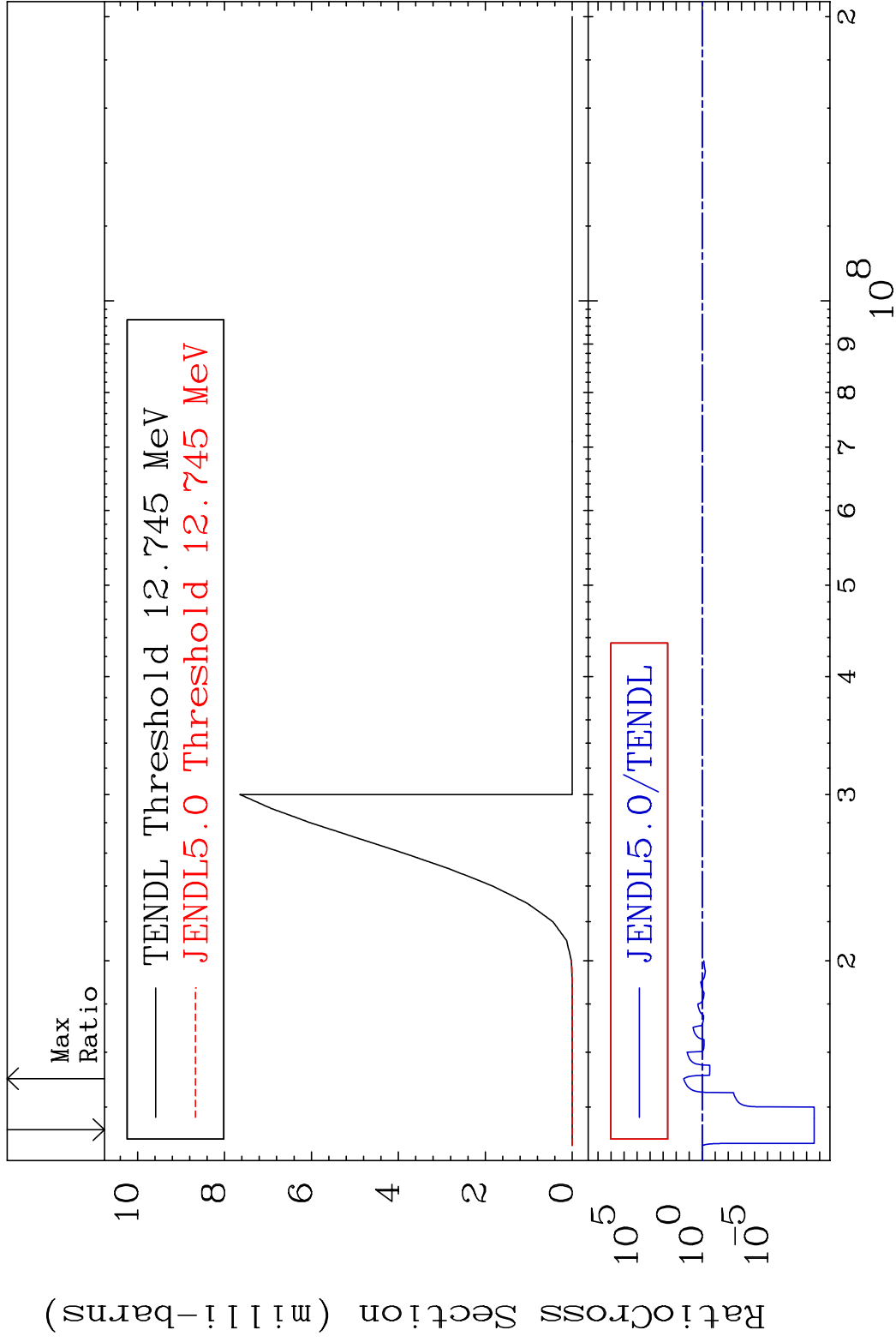


MAT 6246

(n, n') t

62-Sm-151

Cross Section -100.0 To 2584. %



10

Incident Energy (eV)

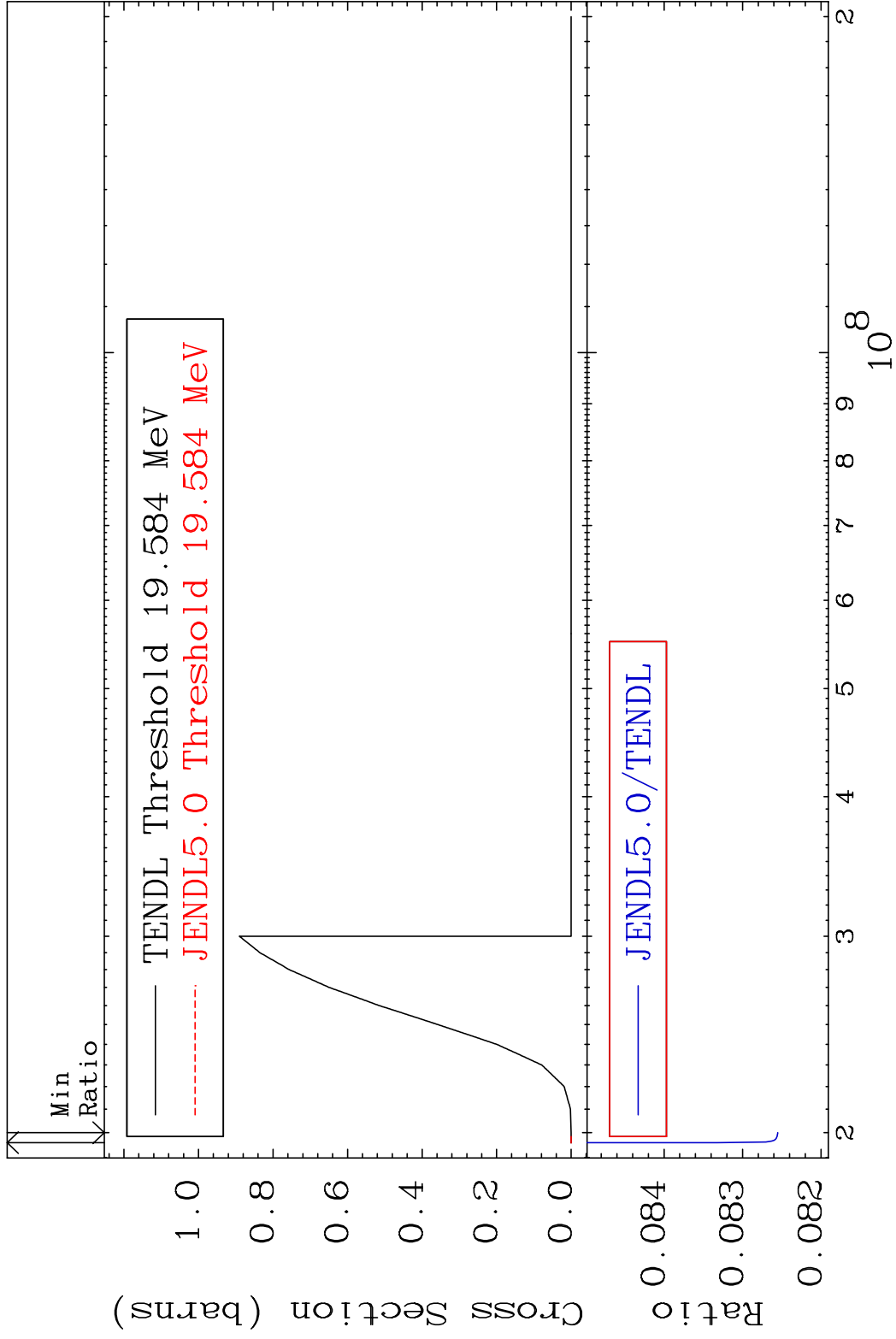
62-Sm-151

MAT 6246

(n,4n)

62-Sm-151

Cross Section -91.74 To -91.67%

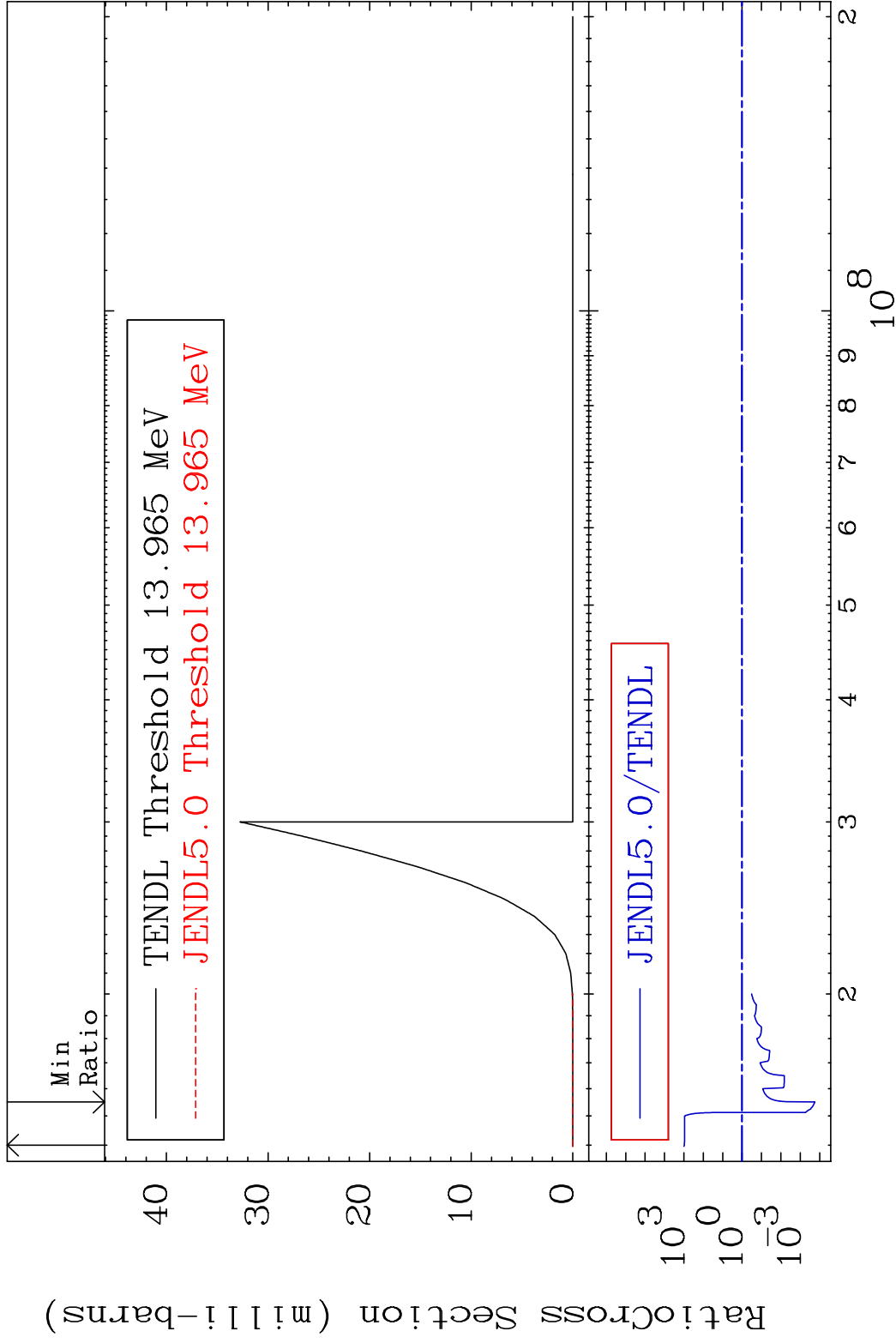


MAT 6246

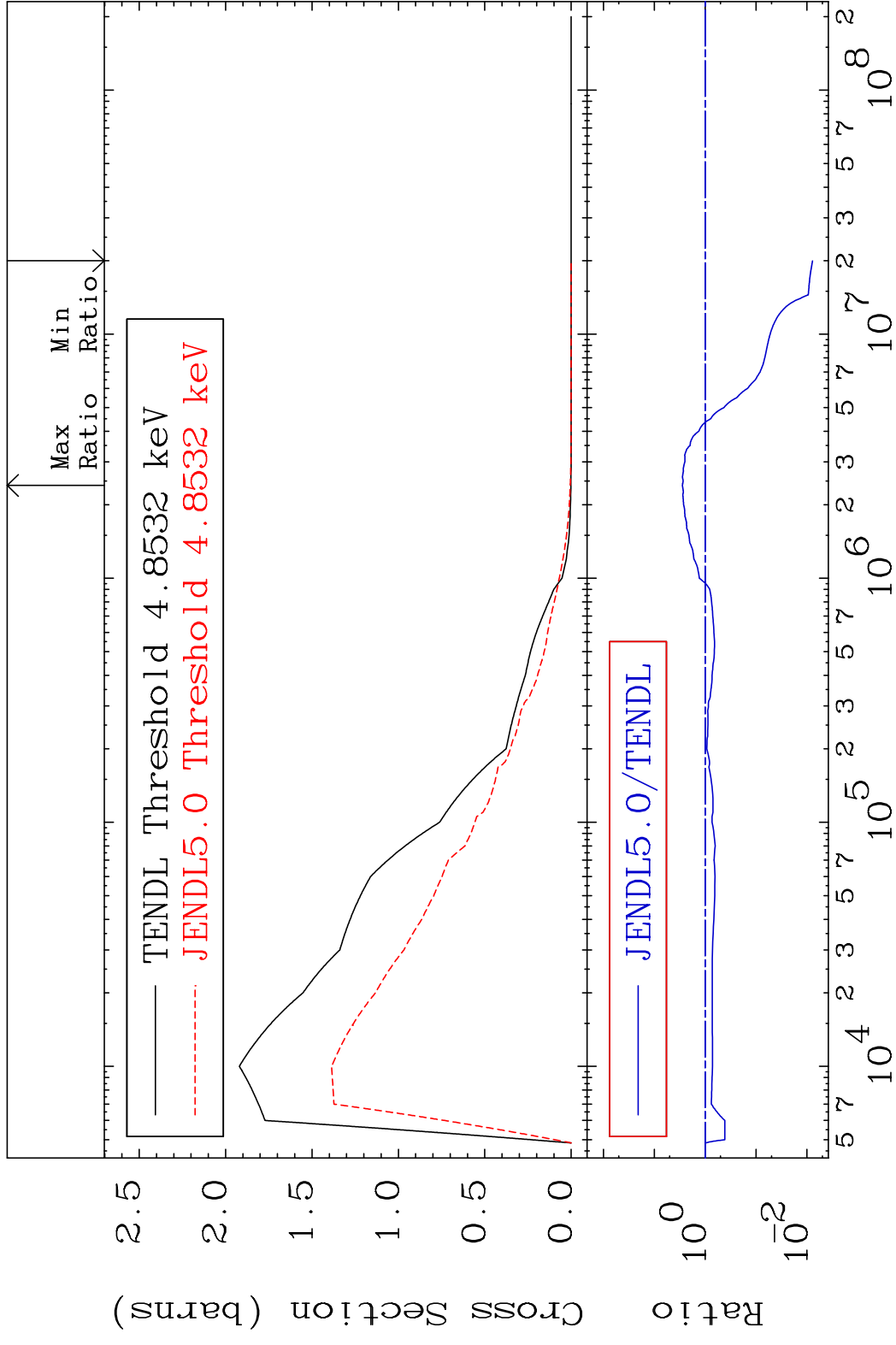
(n,2n) p

62-Sm-151

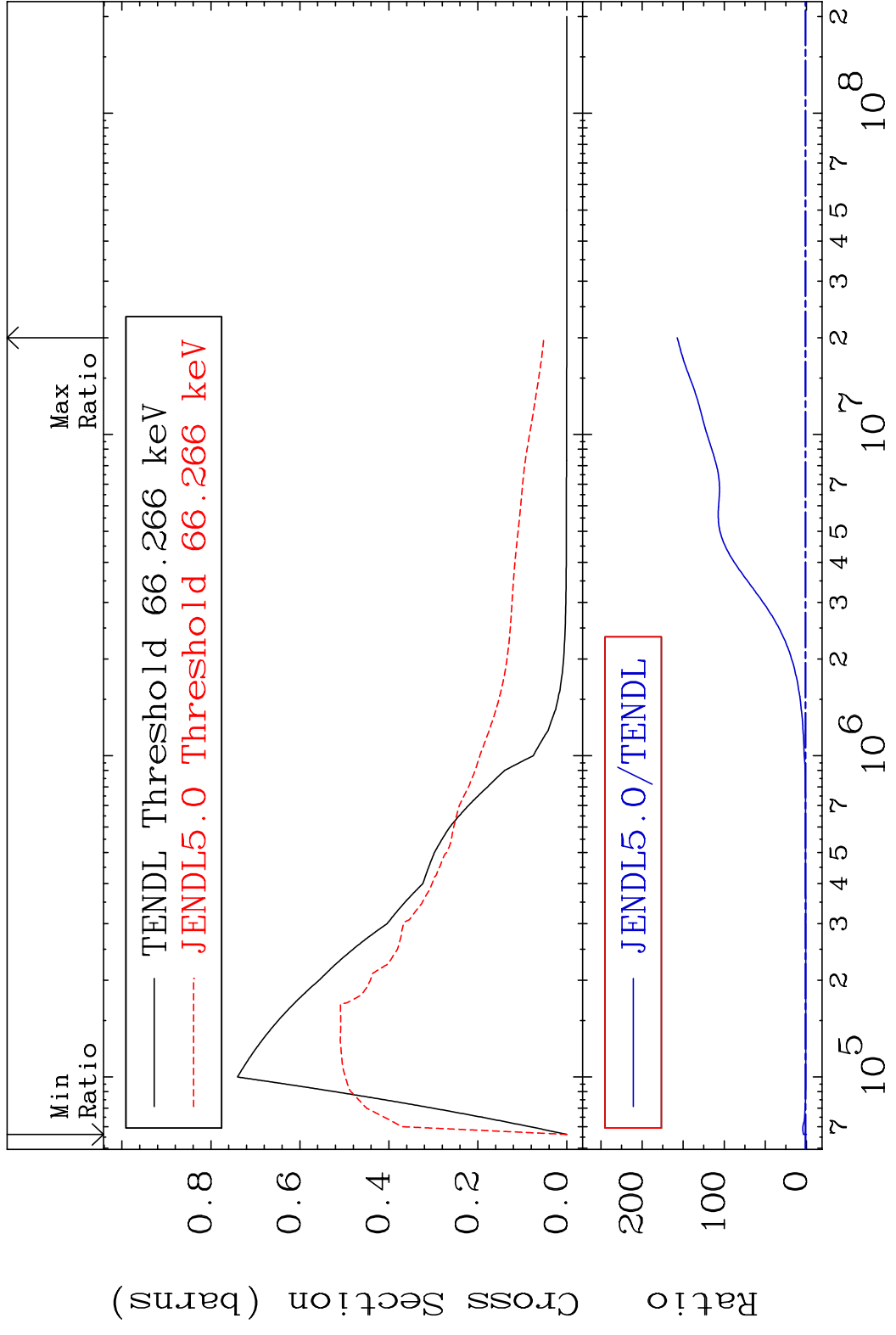
Cross Section -99.98 To 9999. %



MAT 6246 MT= 51 (n,n') Level 62-Sm-151
 Cross Section -99.22 To 181.9 %

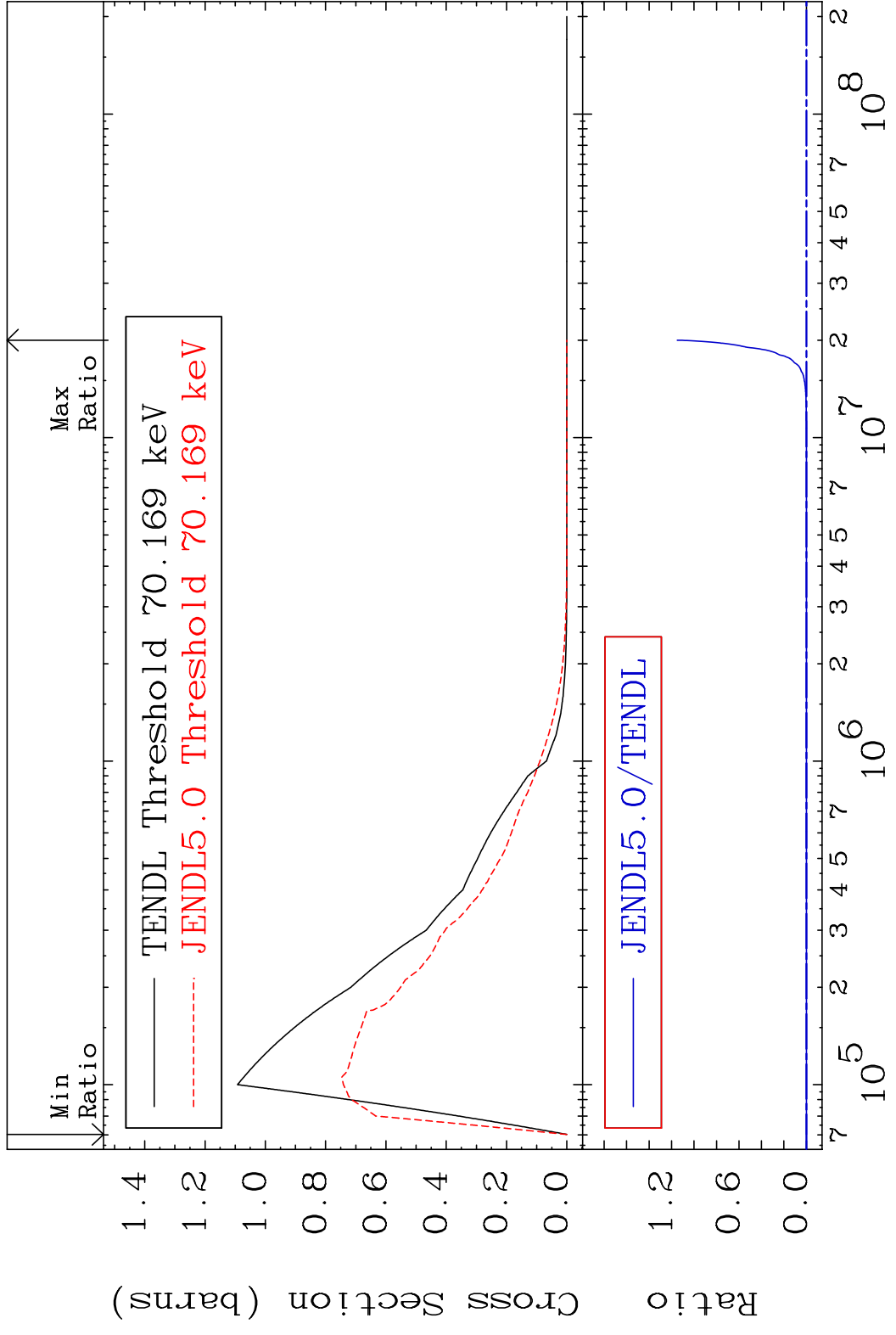


MAT 6246 MT= 52 (n,n') Level 62-Sm-151
 Cross Section -100.0 To 9999. %

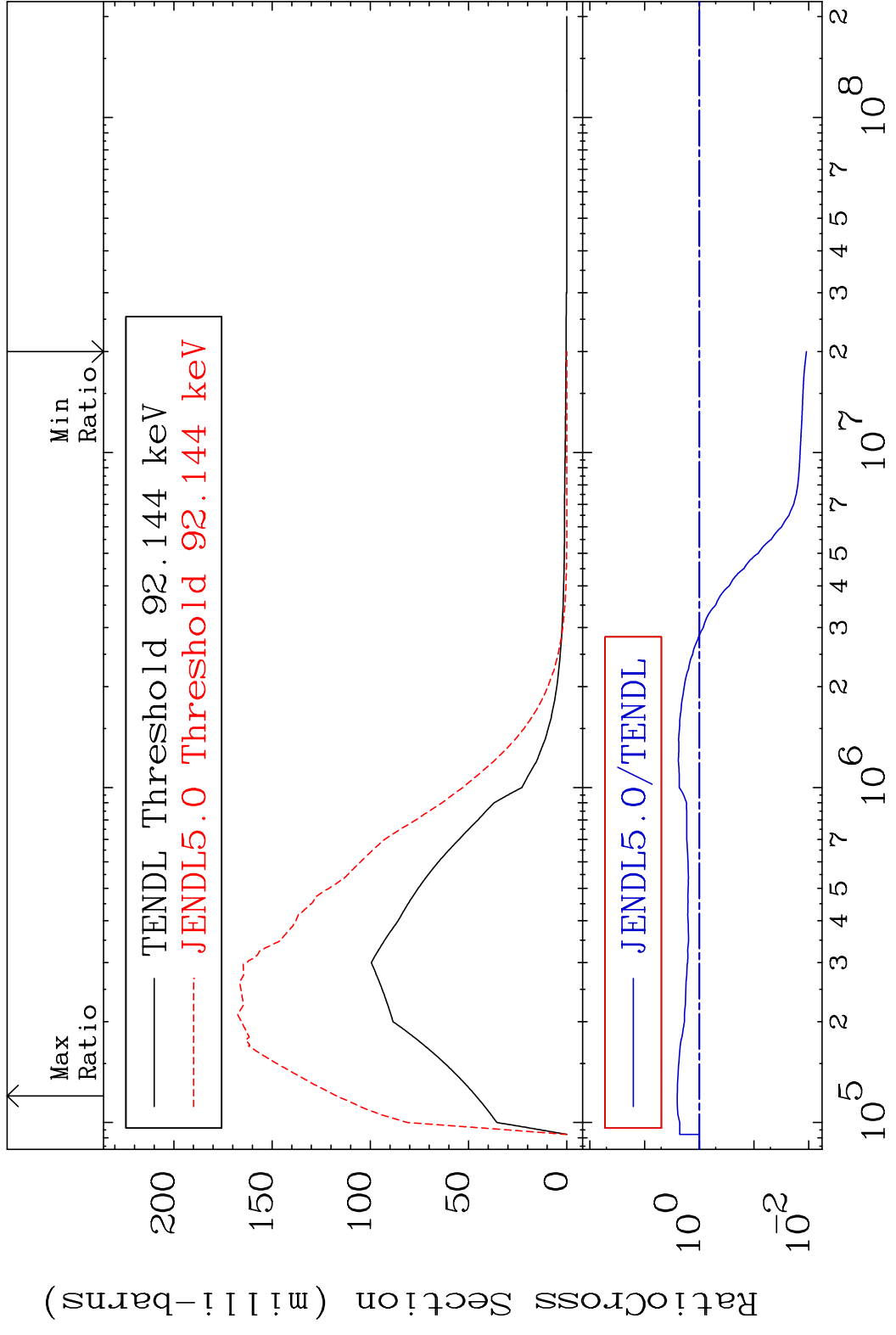


14 Incident Energy (eV) 62-Sm-151

MAT 6246 MT= 53 (n,n') Level 62-Sm-151
 Cross Section -100.0 To 9999. %

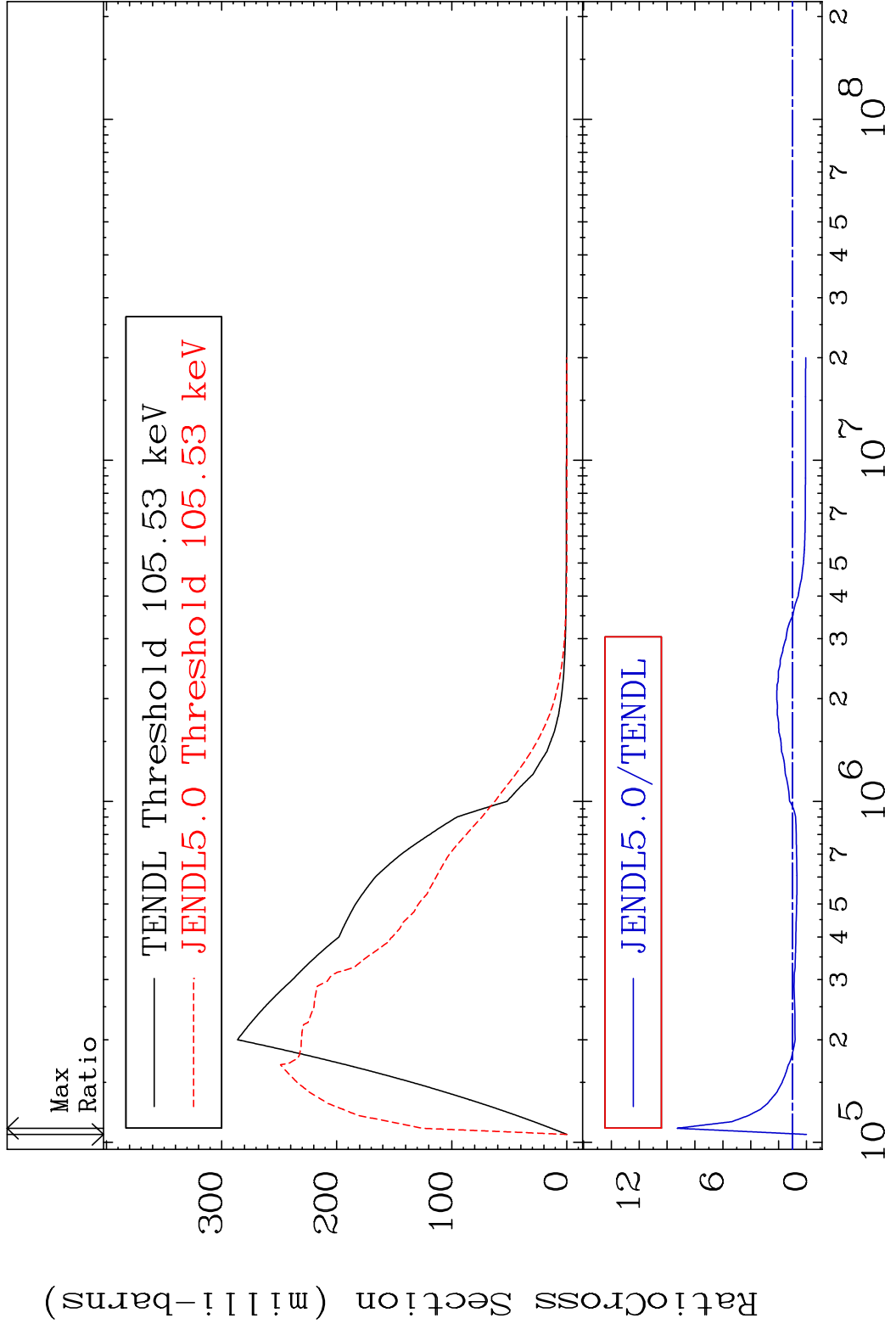


MAT 6246 MT= 54 (n,n') Level 62-Sm-151
 Cross Section -98.90 To 153.6 %



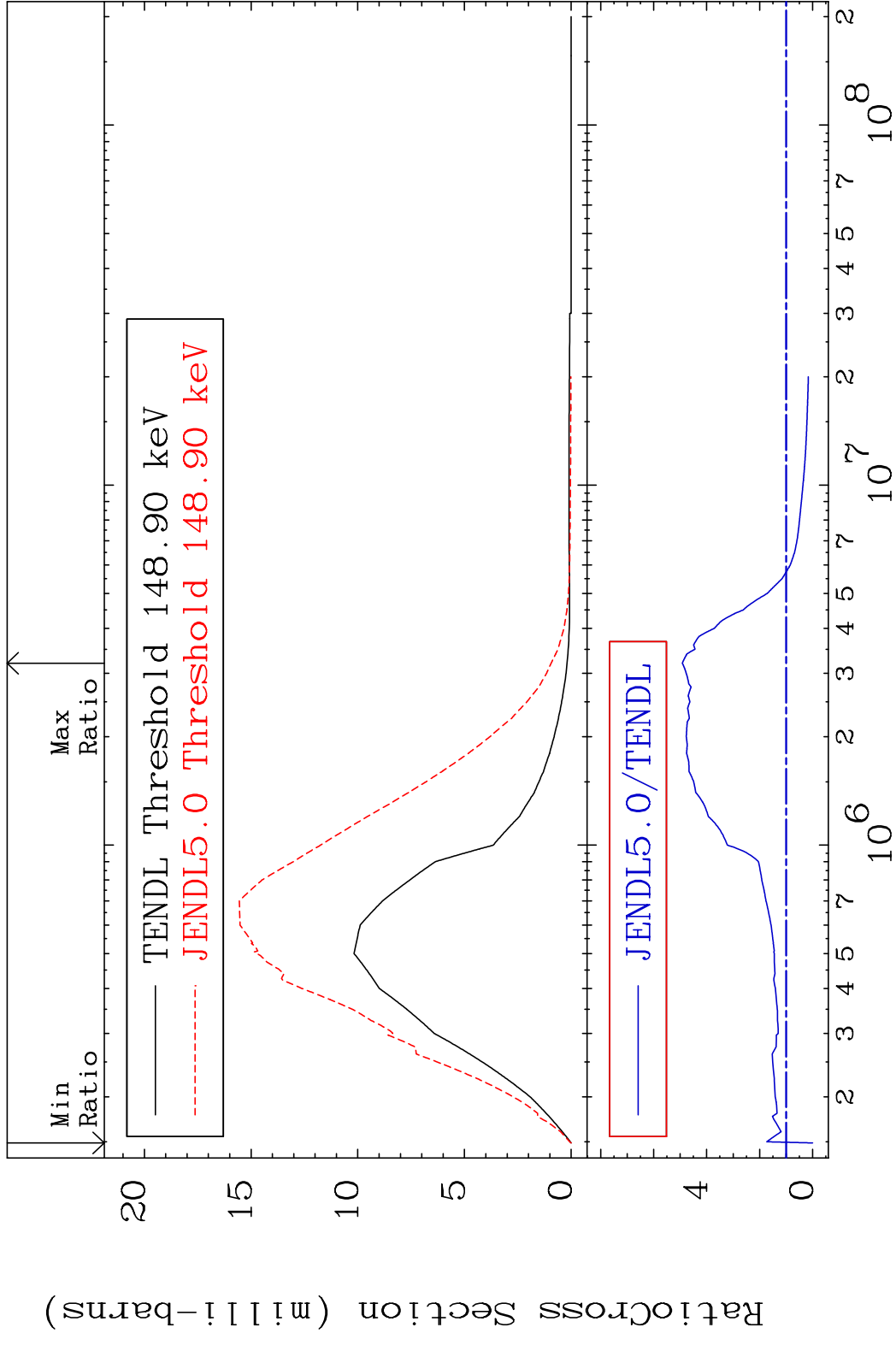
16 Incident Energy (eV) 62-Sm-151

MAT 6246 MT= 55 (n,n') Level 62-Sm-151
 Cross Section -100.0 To 827.7 %

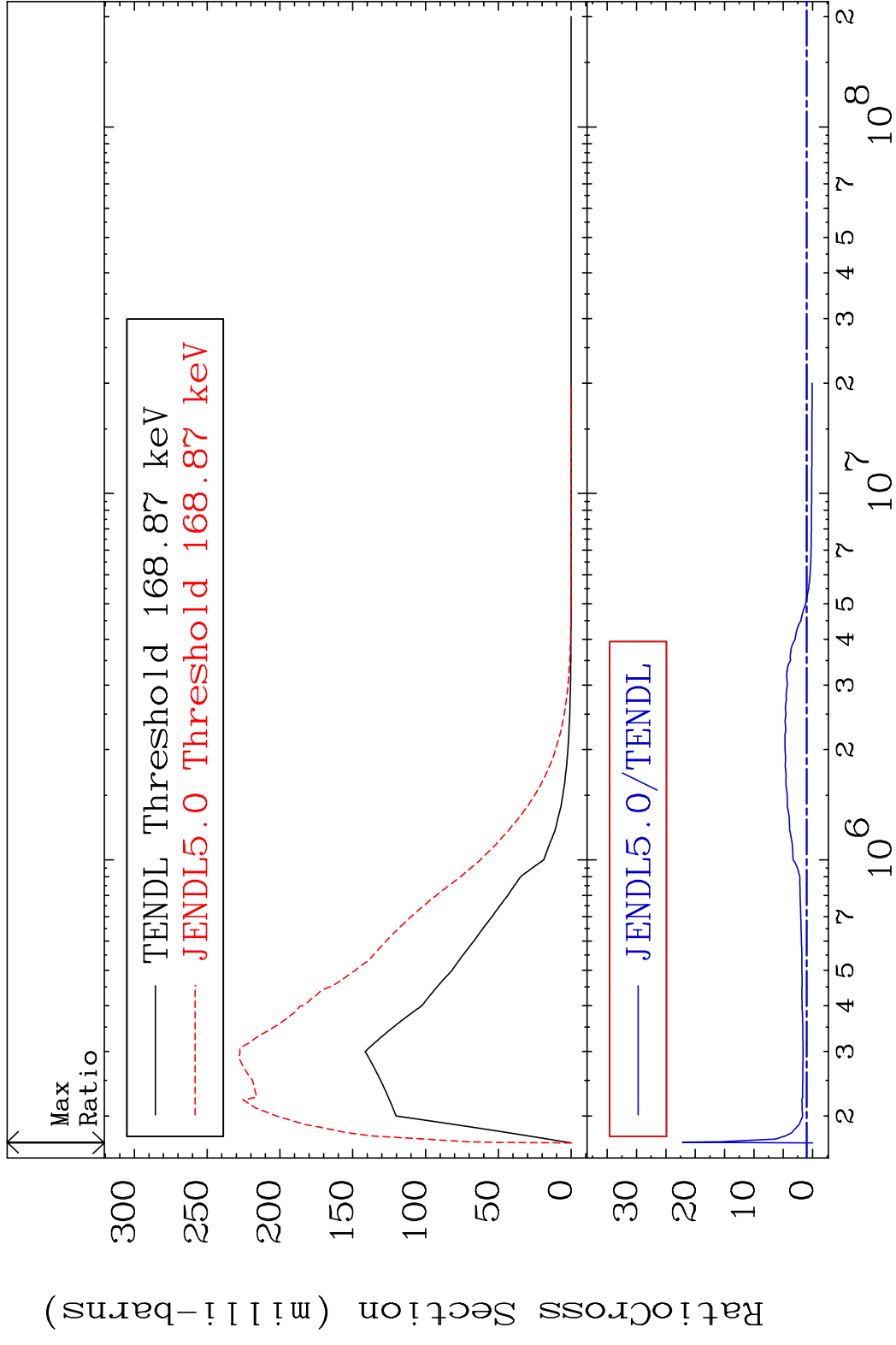


17 62-Sm-151

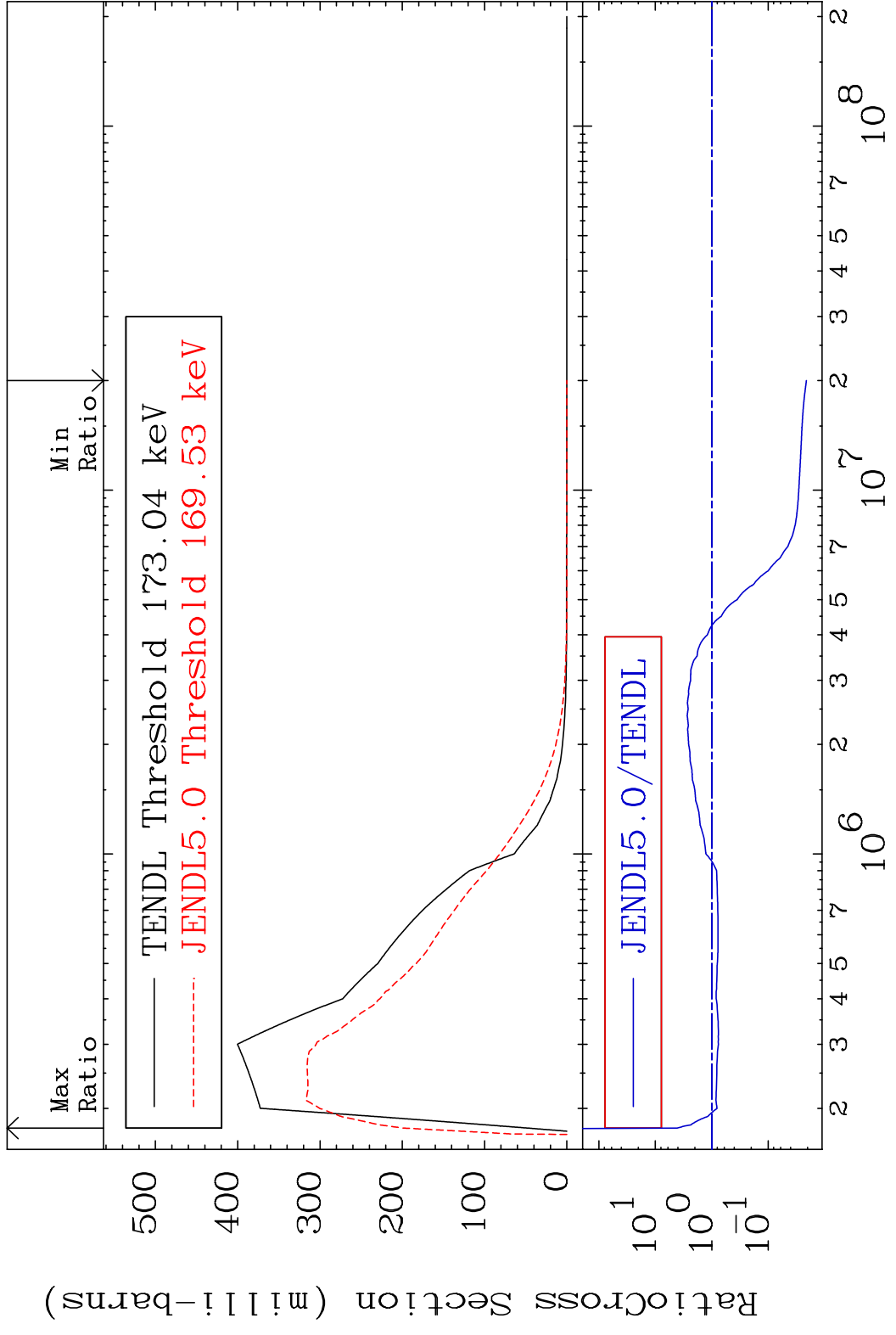
MAT 6246 MT= 56 (n, n') Level 62-Sm-151
 Cross Section -100.0 To 391.8 %



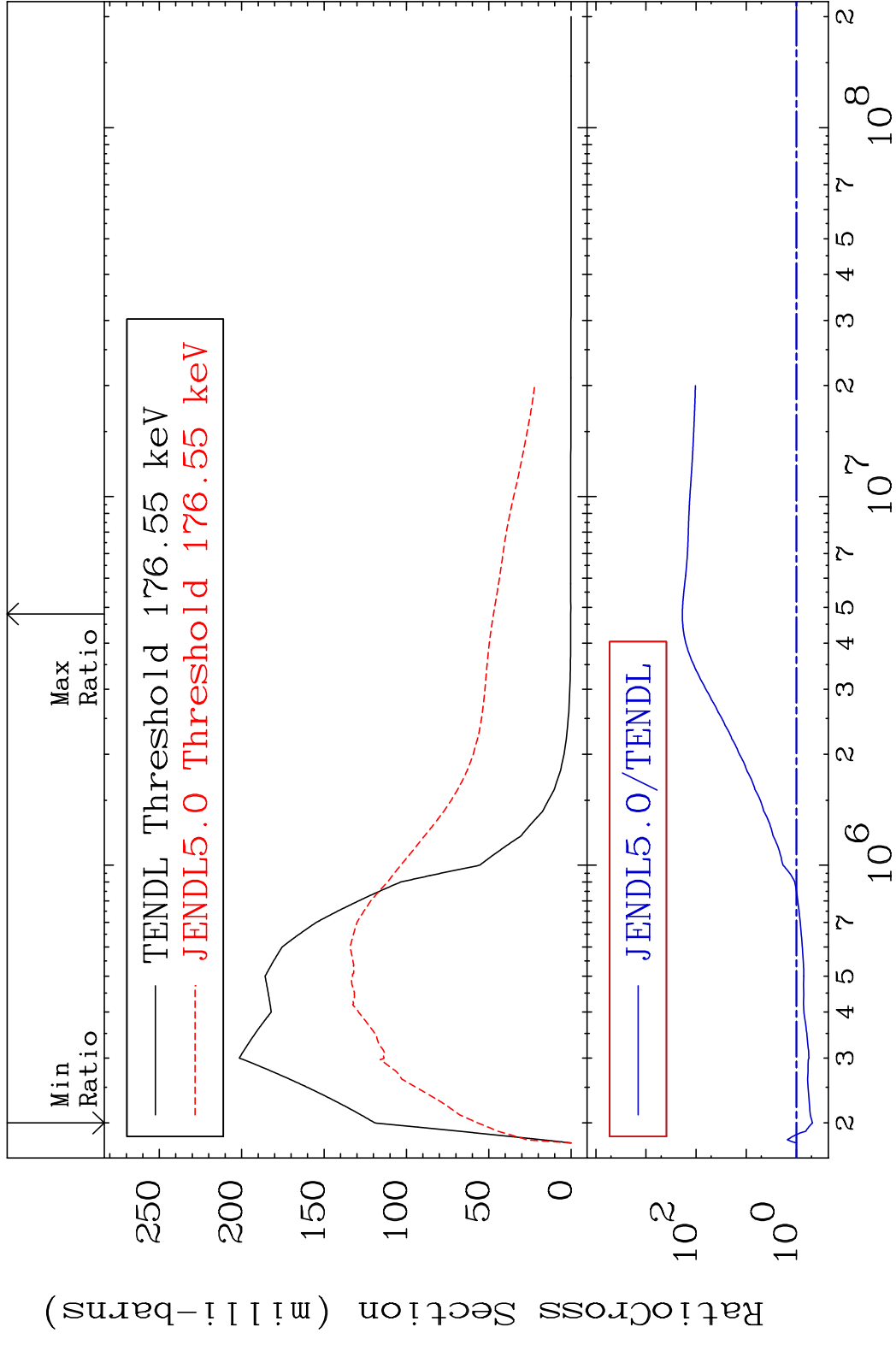
MAT 6246 MT= 57 (n,n') Level 62-Sm-151
 Cross Section -100.0 To 2119. %



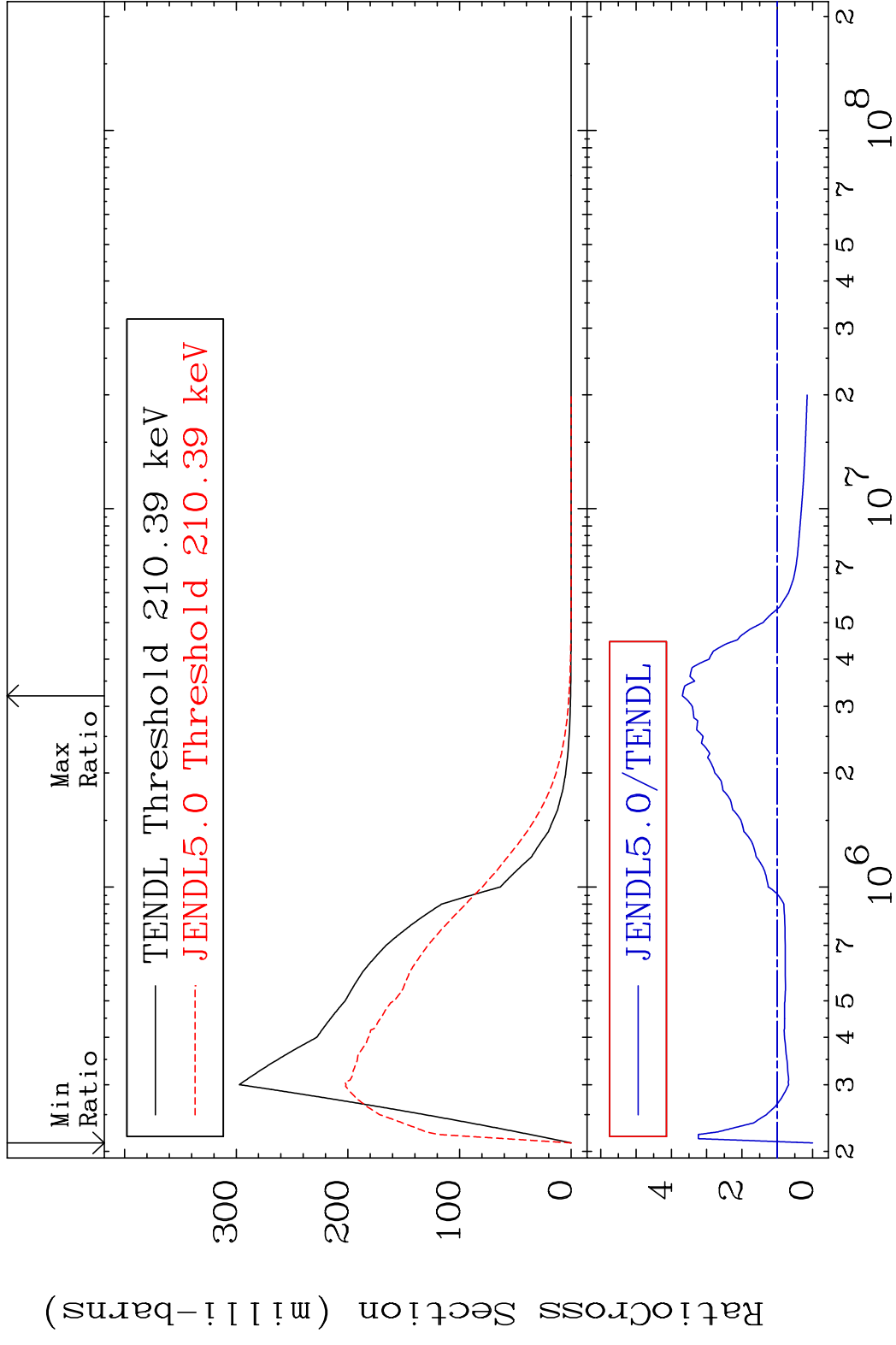
MAT 6246 MT= 58 (n,n') Level 62-Sm-151
 Cross Section -97.90 To 310.4 %



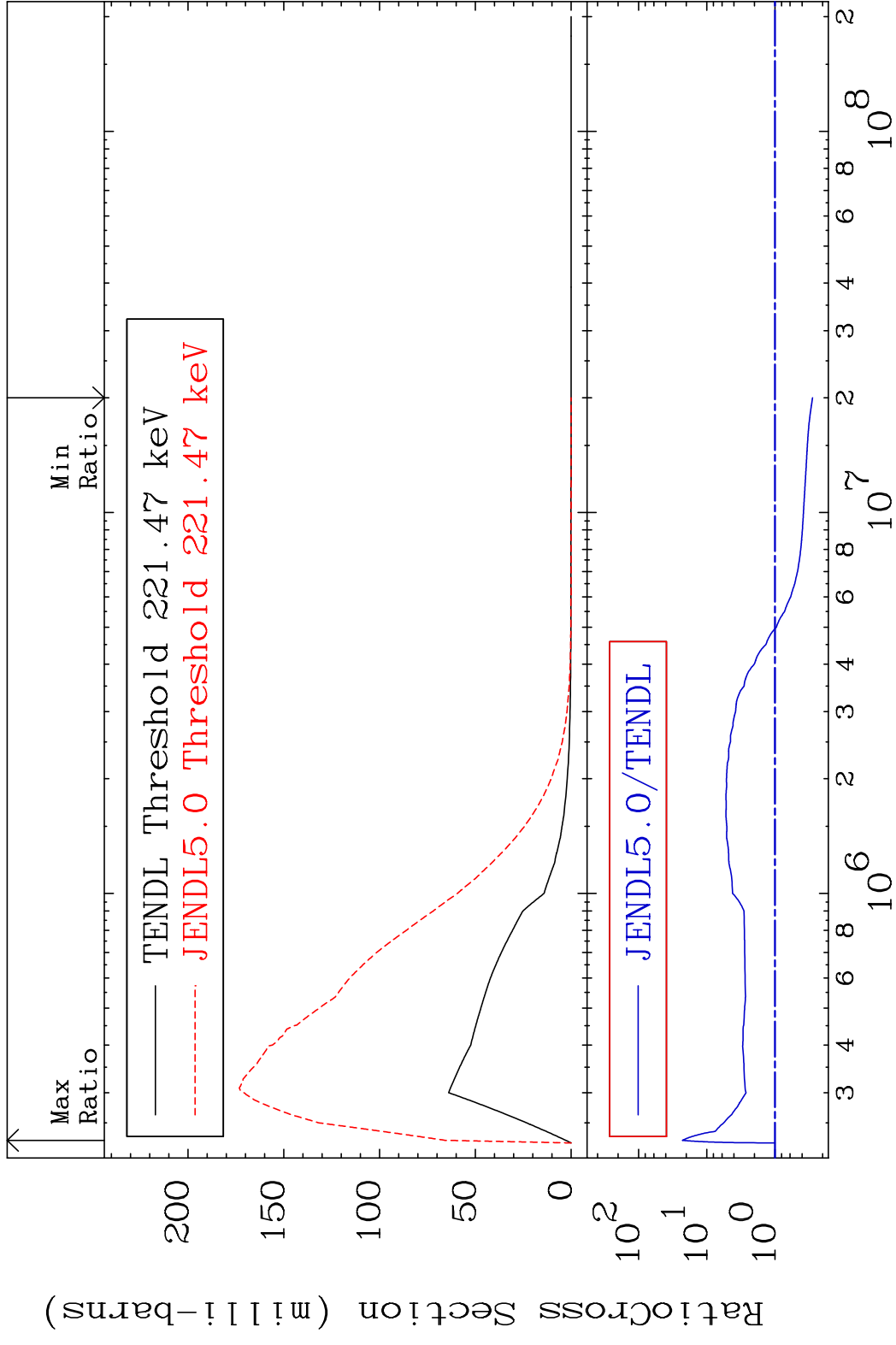
MAT 6246 MT= 59 (n, n') Level 62-Sm-151
 Cross Section -52.30 To 9999. %



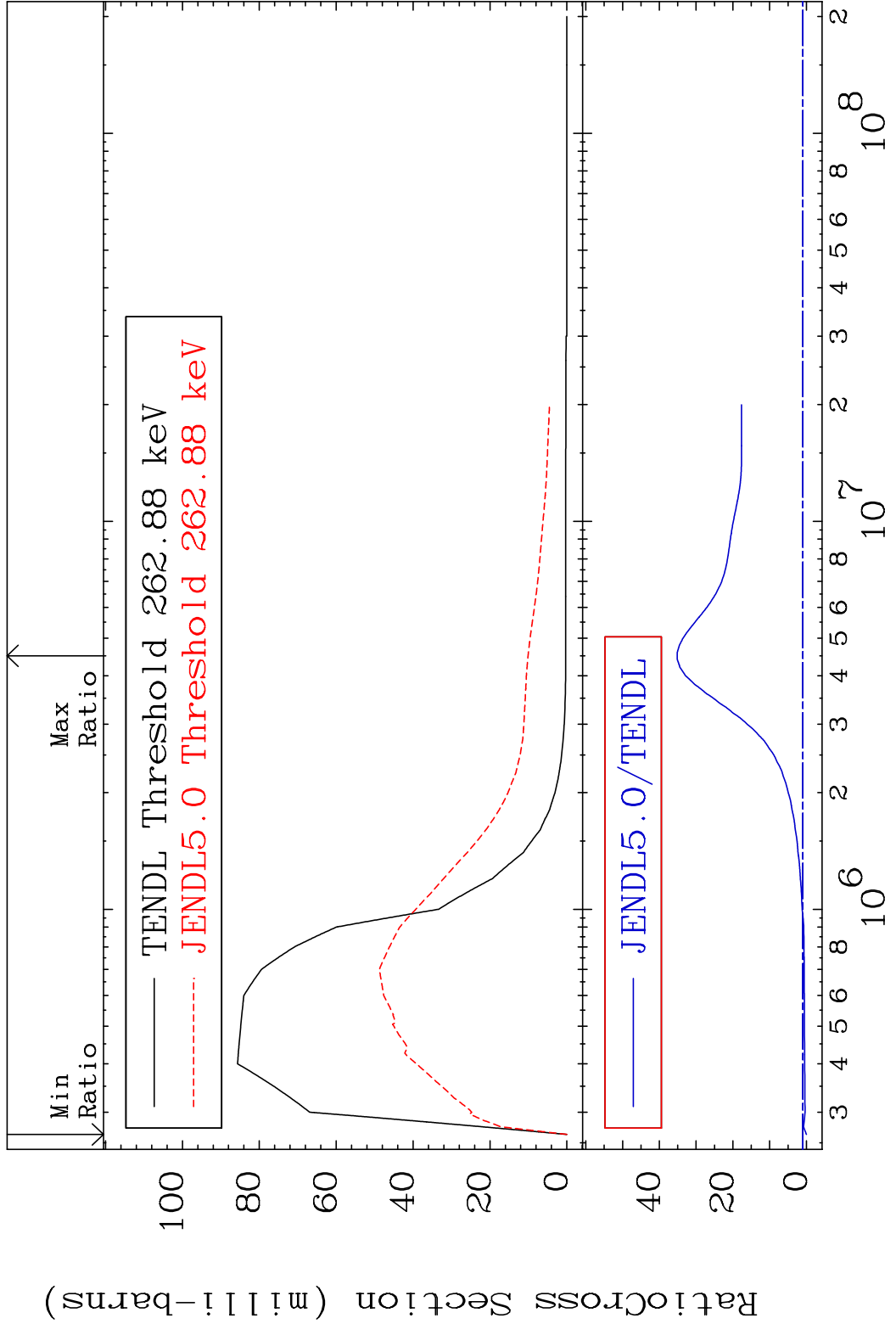
MAT 6246 MT= 60 (n, n') Level 62-Sm-151
 Cross Section -100.0 To 268.8 %



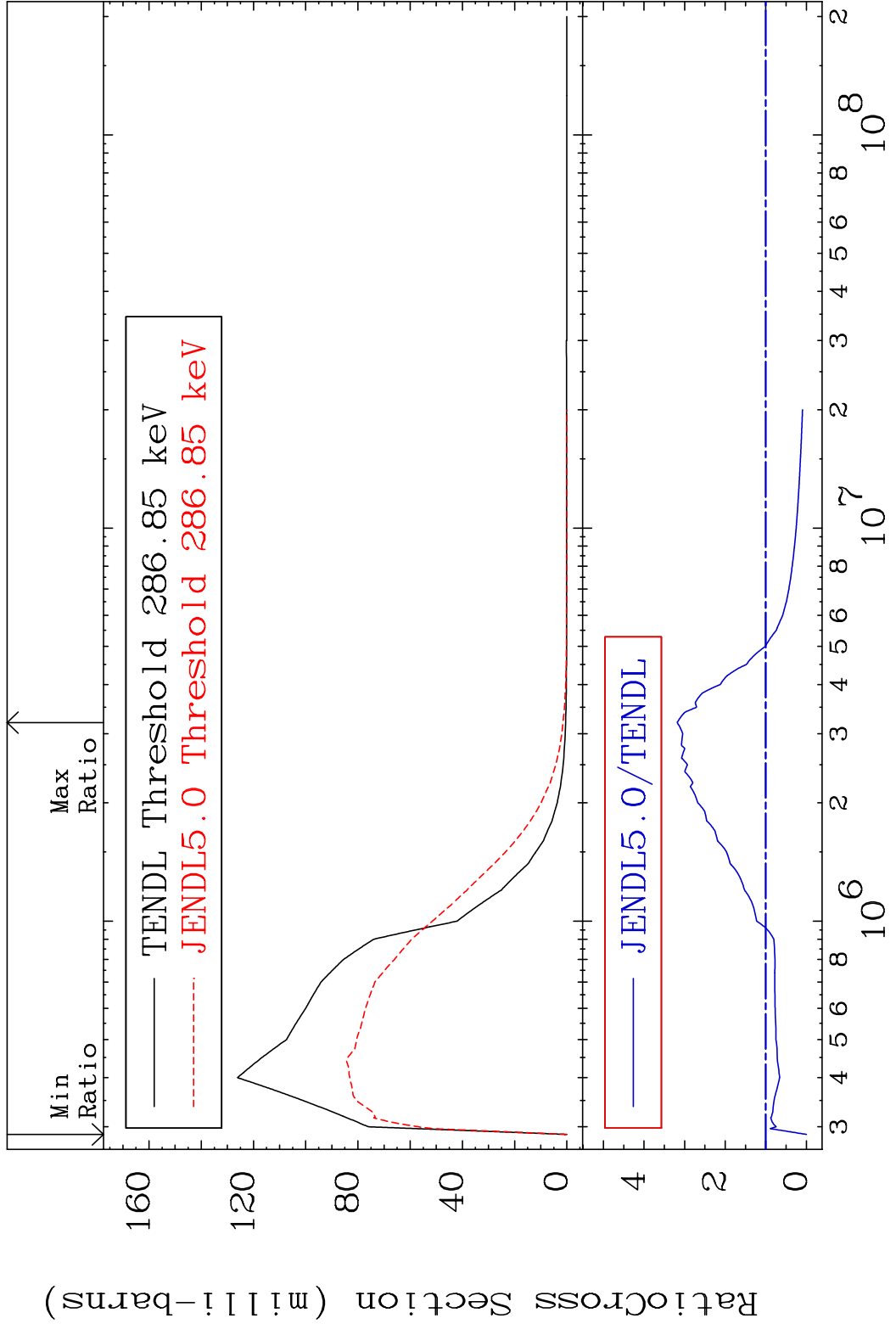
MAT 6246 MT= 61 (n,n') Level 62-Sm-151
 Cross Section -71.88 To 2187. %



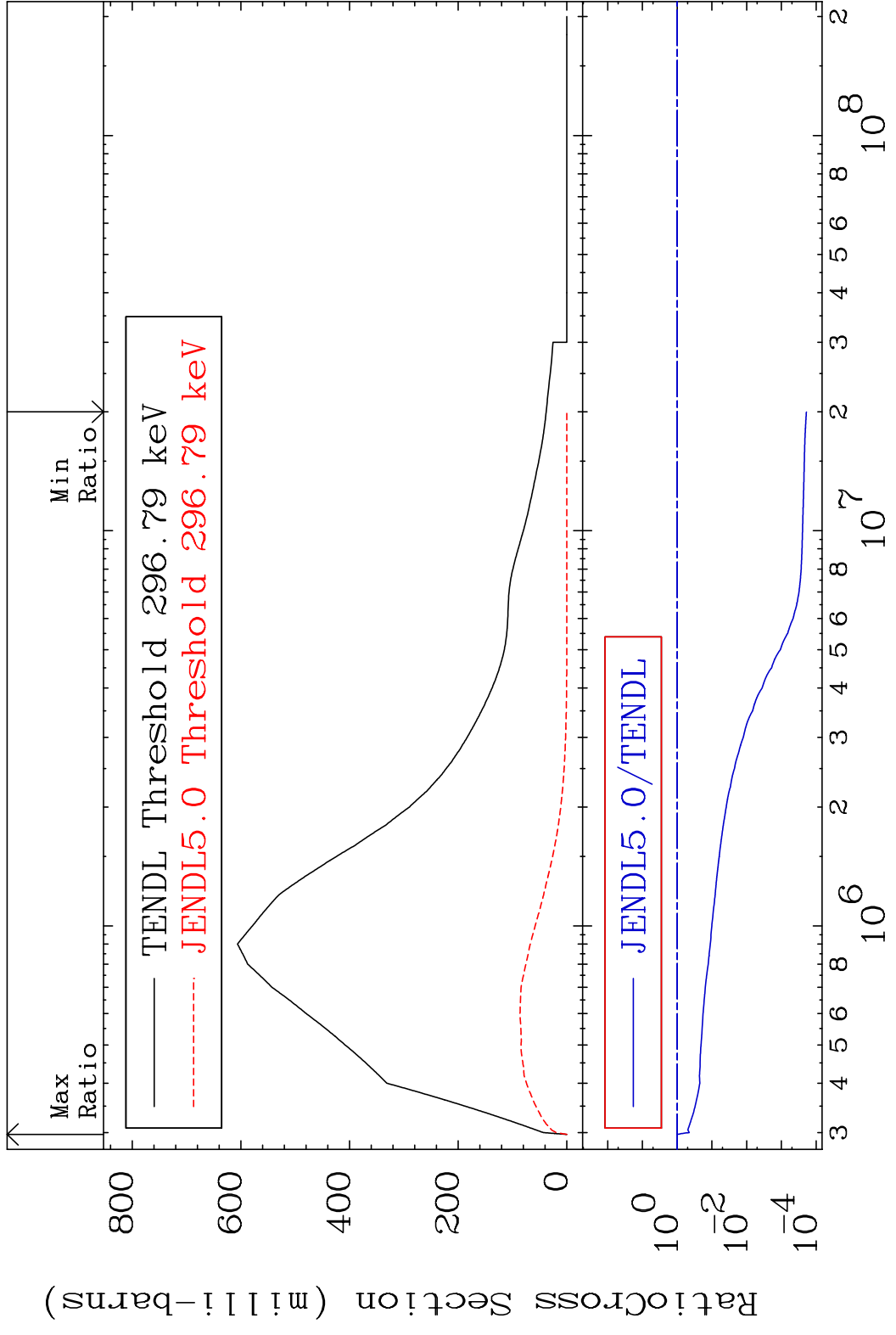
MAT 6246 MT= 62 (n, n') Level 62-Sm-151
 Cross Section -100.0 To 3415. %



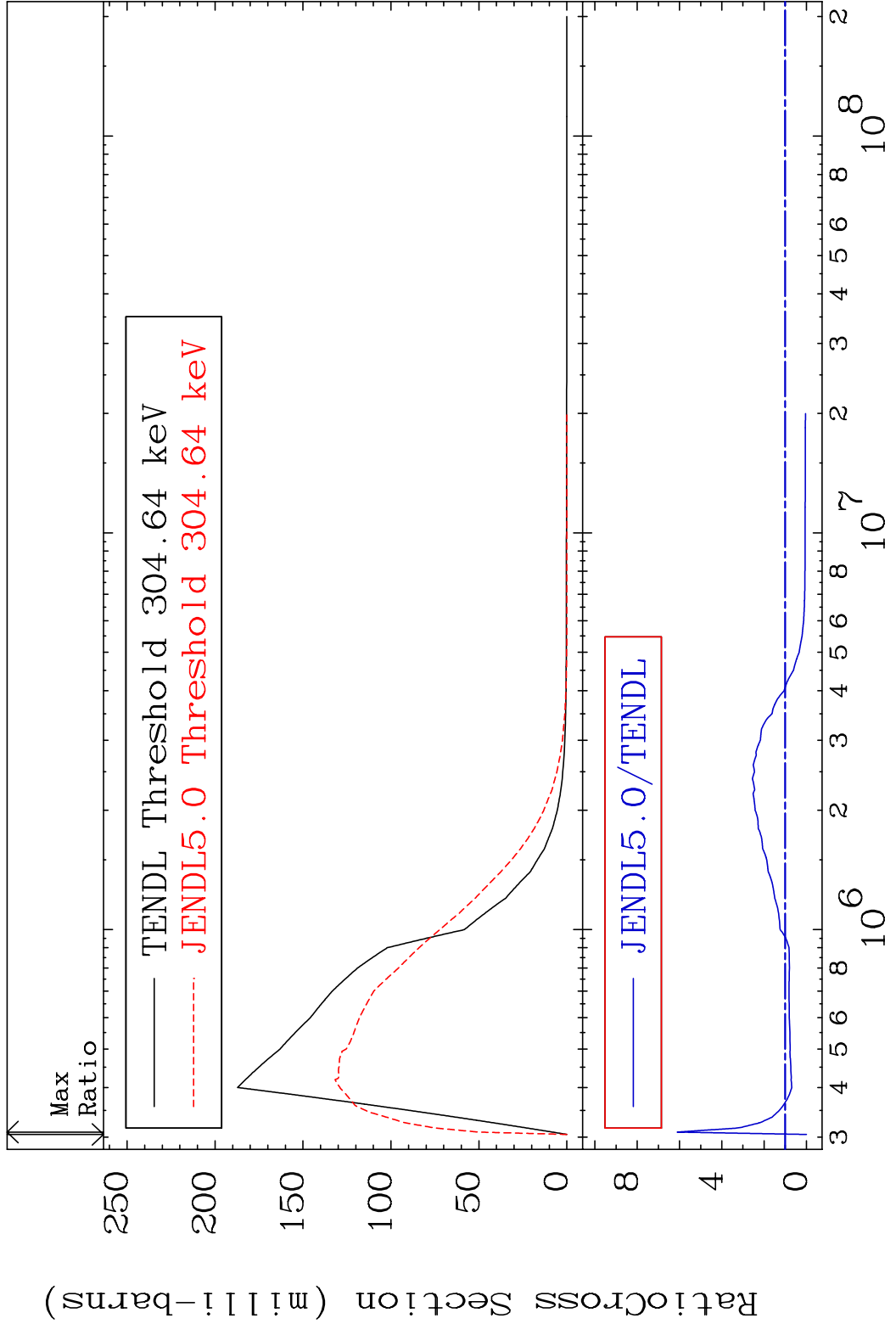
MAT 6246 MT= 63 (n,n') Level 62-Sm-151
 Cross Section -100.0 To 218.3 %



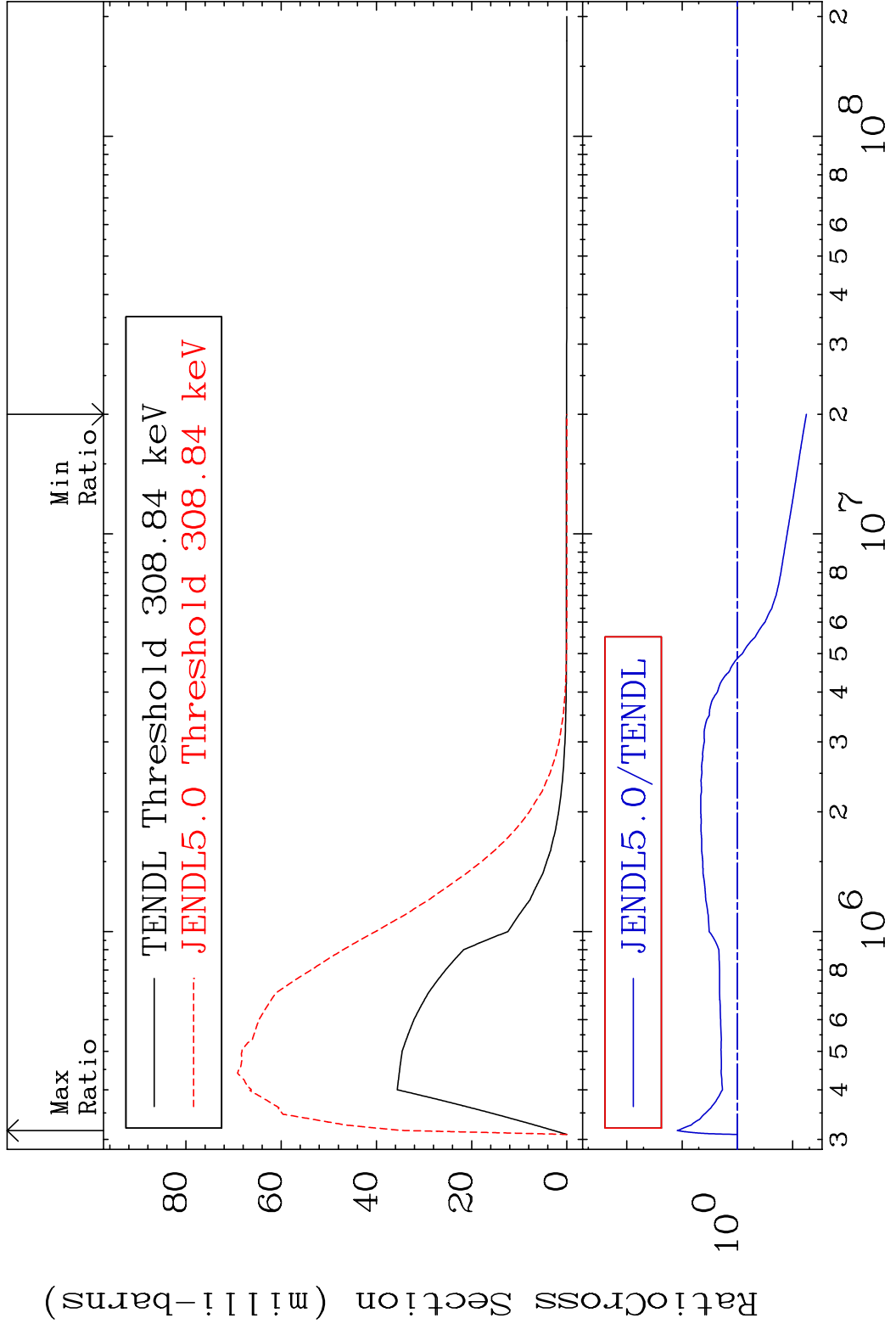
MAT 6246 MT= 64 (n, n') Level 62-Sm-151
 Cross Section -99.98 To 0.000 %



MAT 6246 MT= 65 (n,n') Level 62-Sm-151
 Cross Section -100.0 To 511.1 %

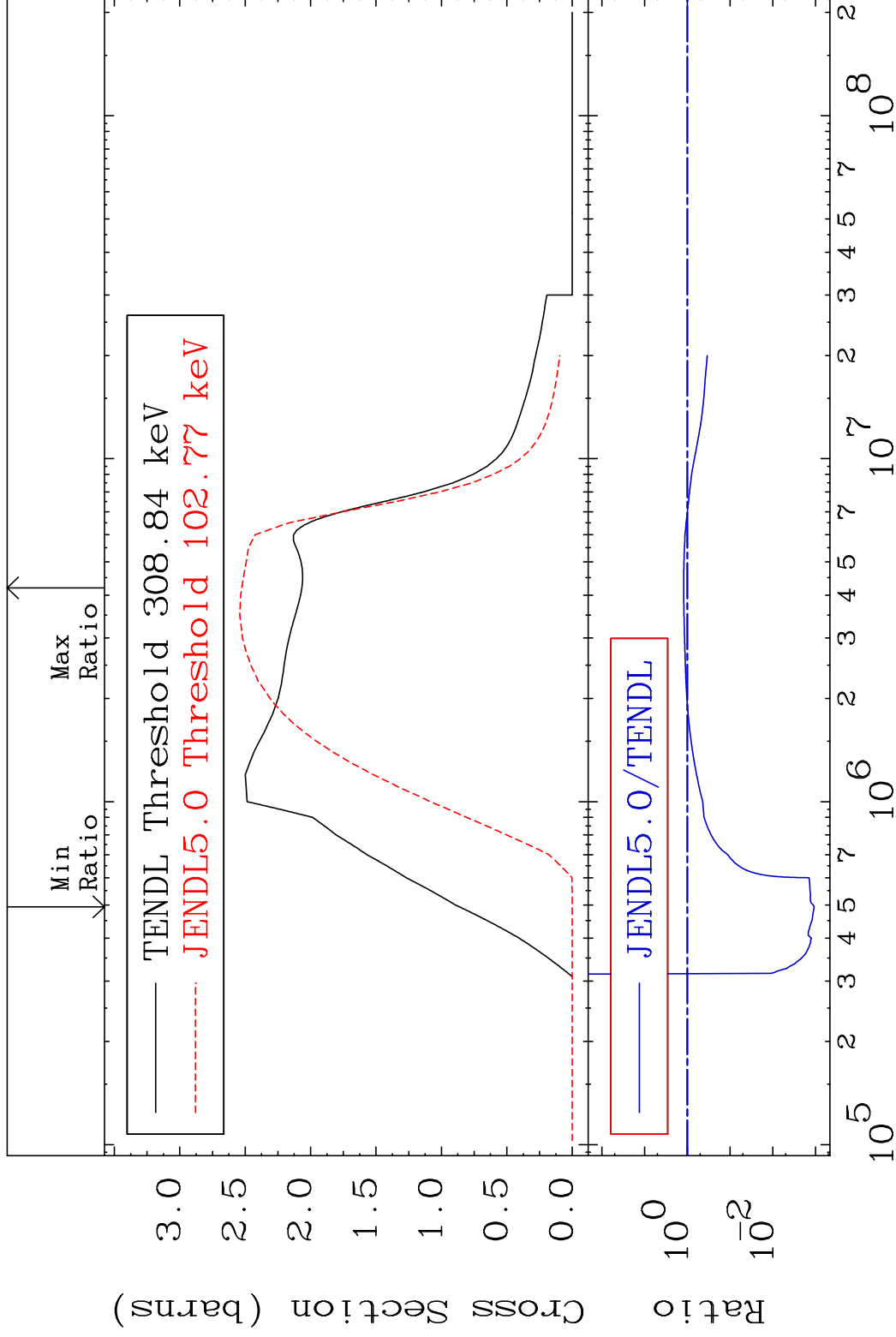


MAT 6246 MT= 66 (n,n') Level 62-Sm-151
 Cross Section -94.35 To 1128. %



MAT 6246

(n, n') Continuum 62-Sm-151
Cross Section -99.89 To 22.22 %



29

Incident Energy (eV)

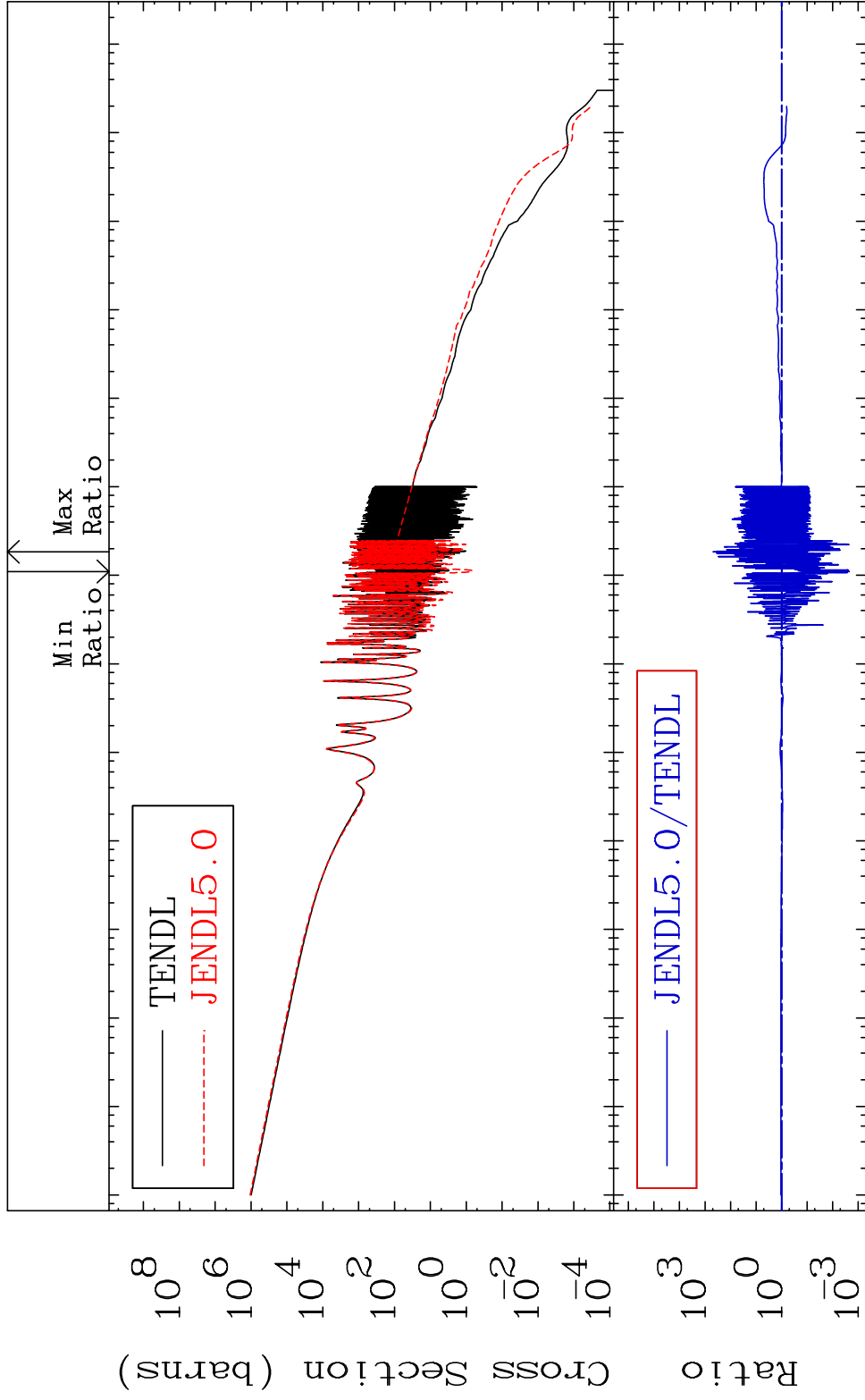
62-Sm-151

MAT 6246

(n, γ)

62-Sm-151

Cross Section -99.78 To 9999. %



30

Incident Energy (eV)

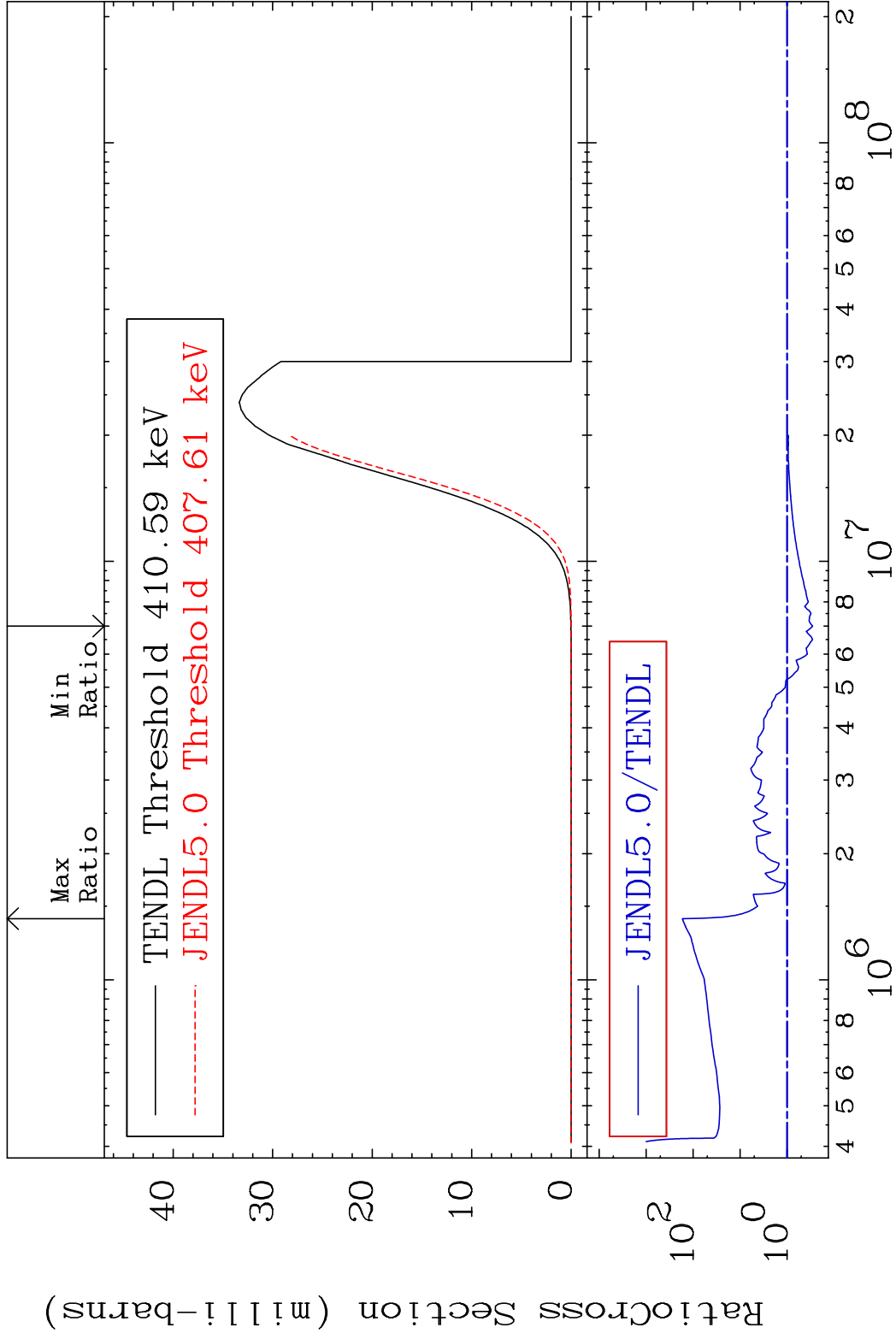
62-Sm-151

MAT 6246

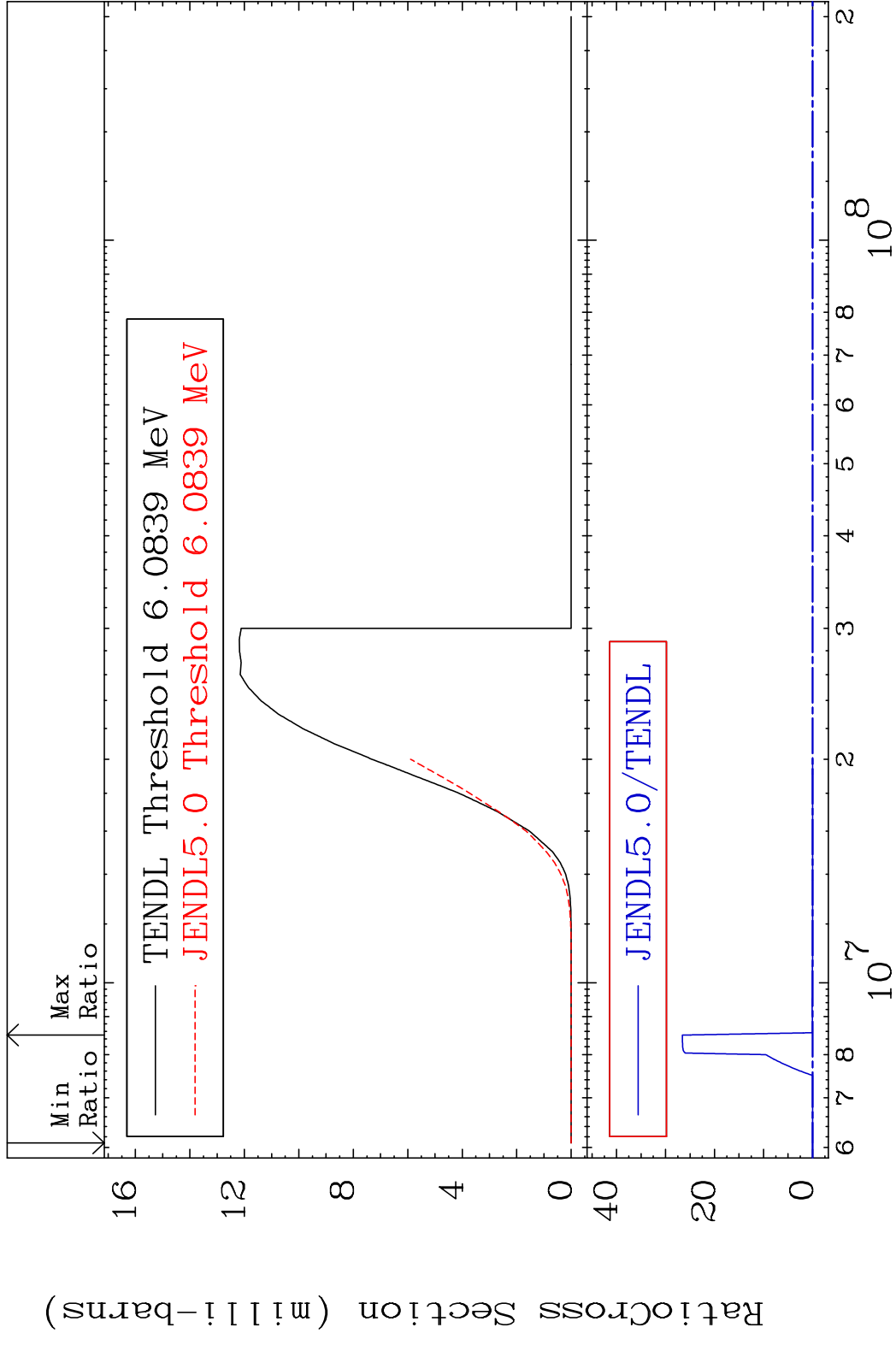
(n, p)

62-Sm-151

Cross Section -71.48 To 9999. %

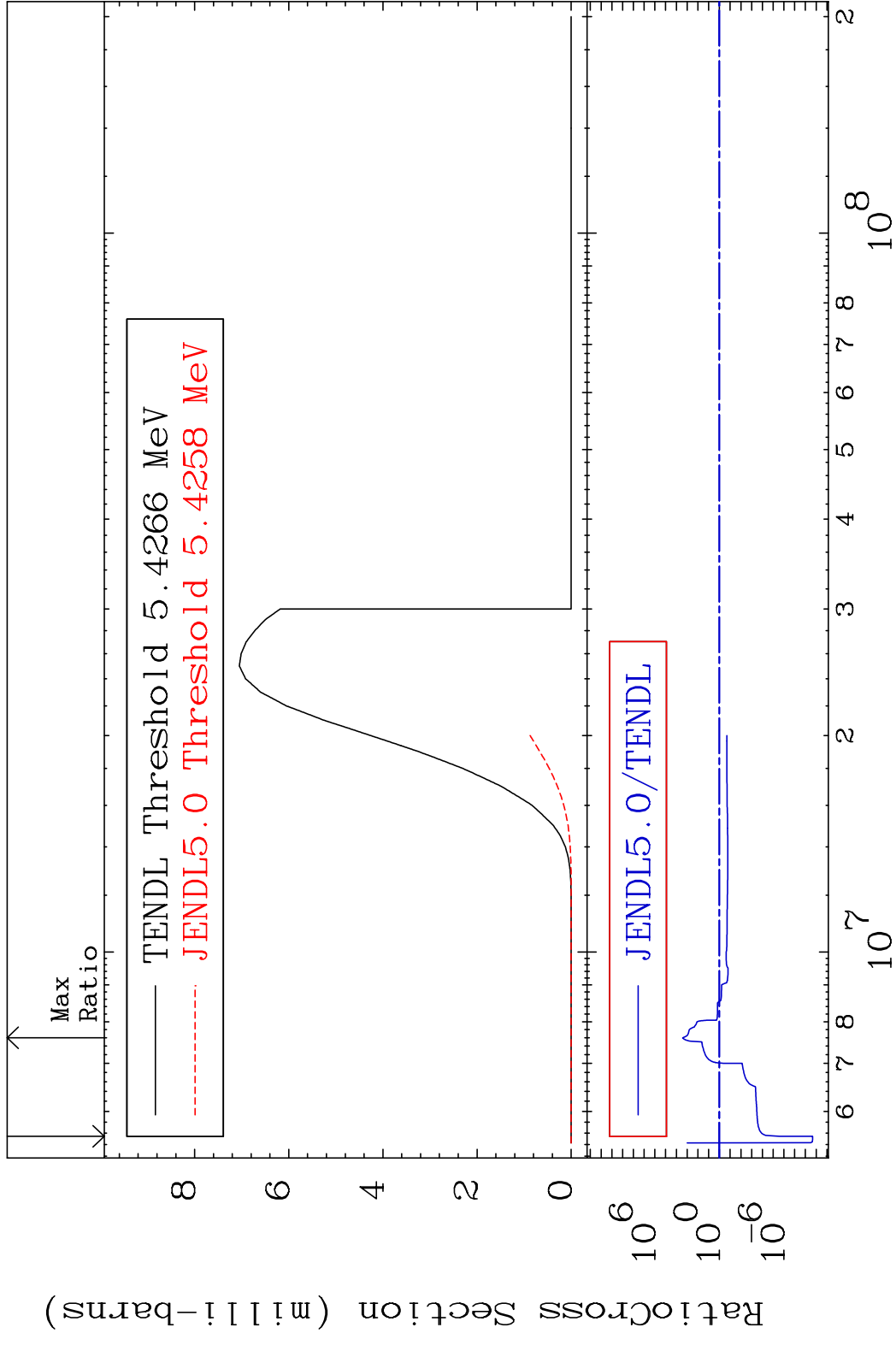


MAT 6246 (n,d) 62-Sm-151
 Cross Section -100.0 To 9999. %



32 Incident Energy (eV) 62-Sm-151

MAT 6246 (n, t) 62-Sm-151
 Cross Section -100.0 To 9999. %

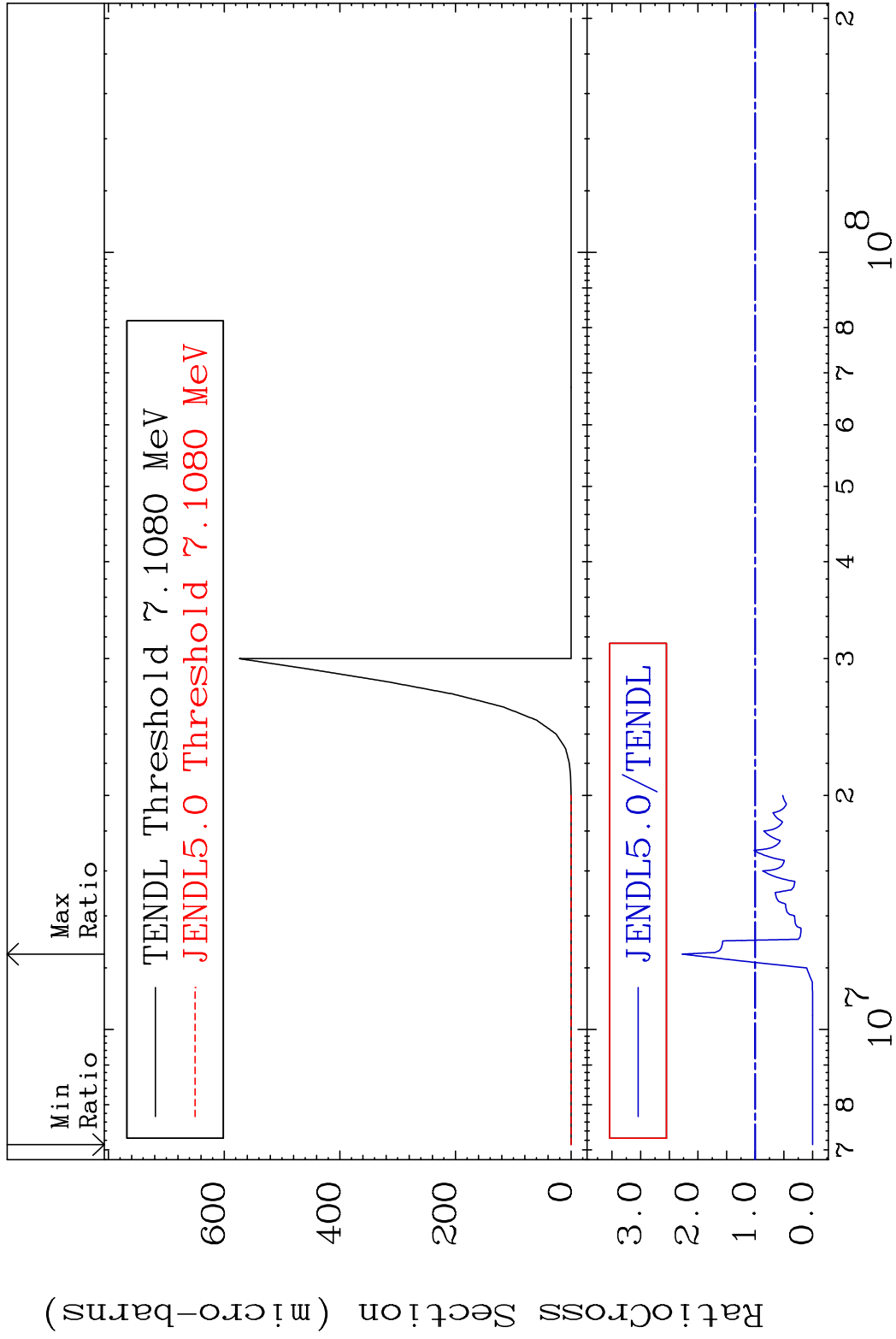


MAT 6246

(n, He-3)

62-Sm-151

Cross Section -100.0 To 127.2 %



34

Incident Energy (eV)

62-Sm-151

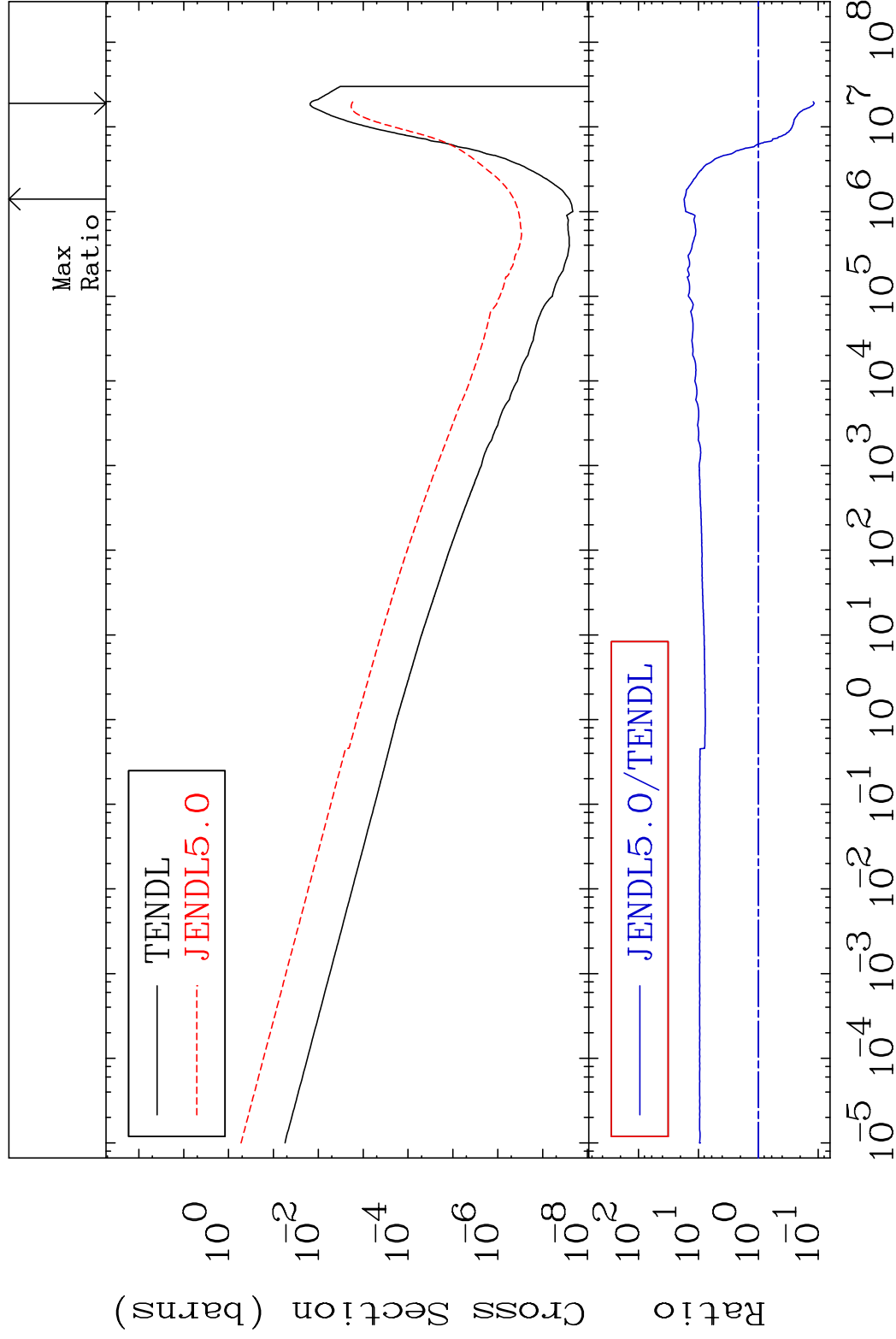
MAT 6246

(n, α)

62-Sm-151

Cross Section

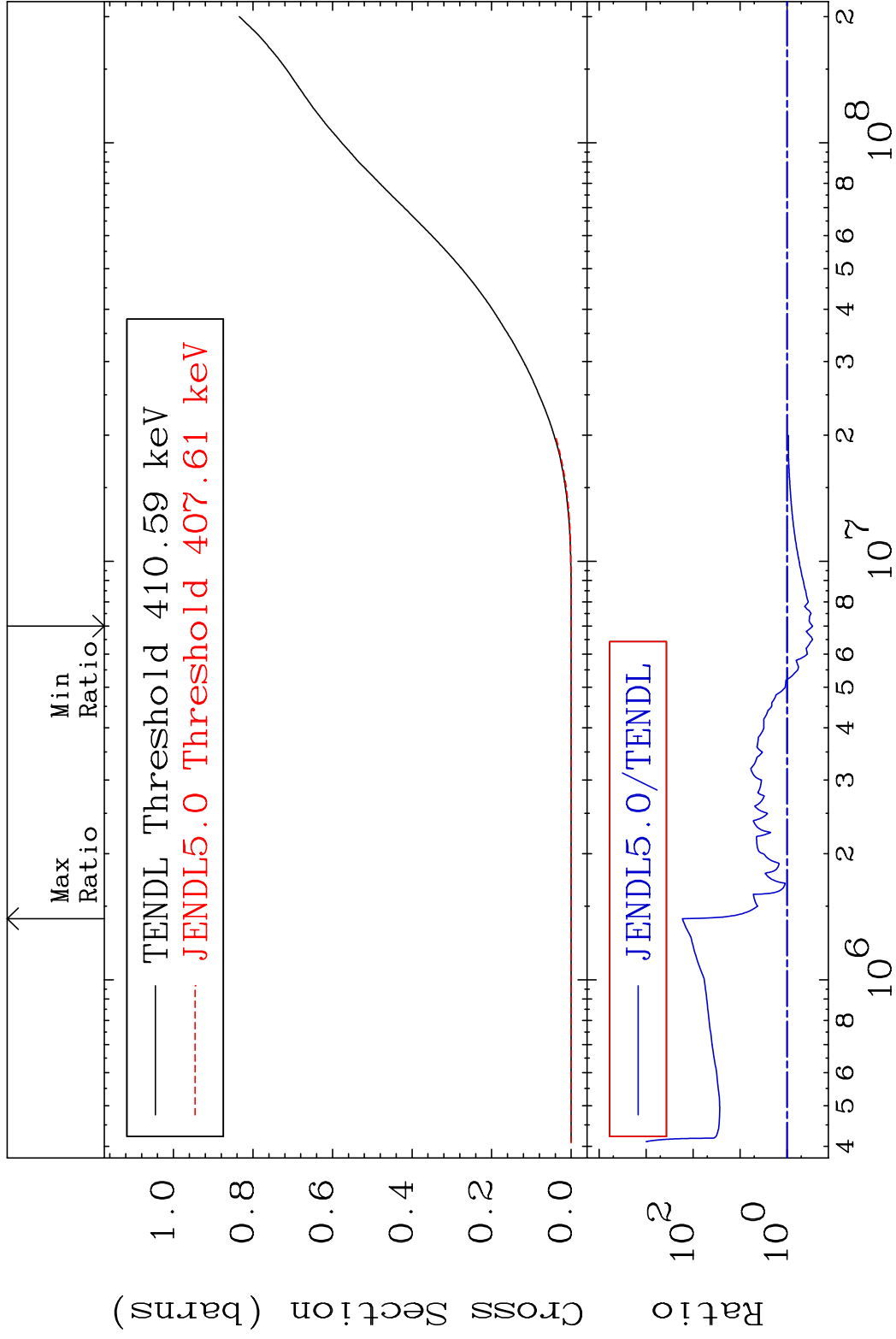
-88.33 To 1637. %



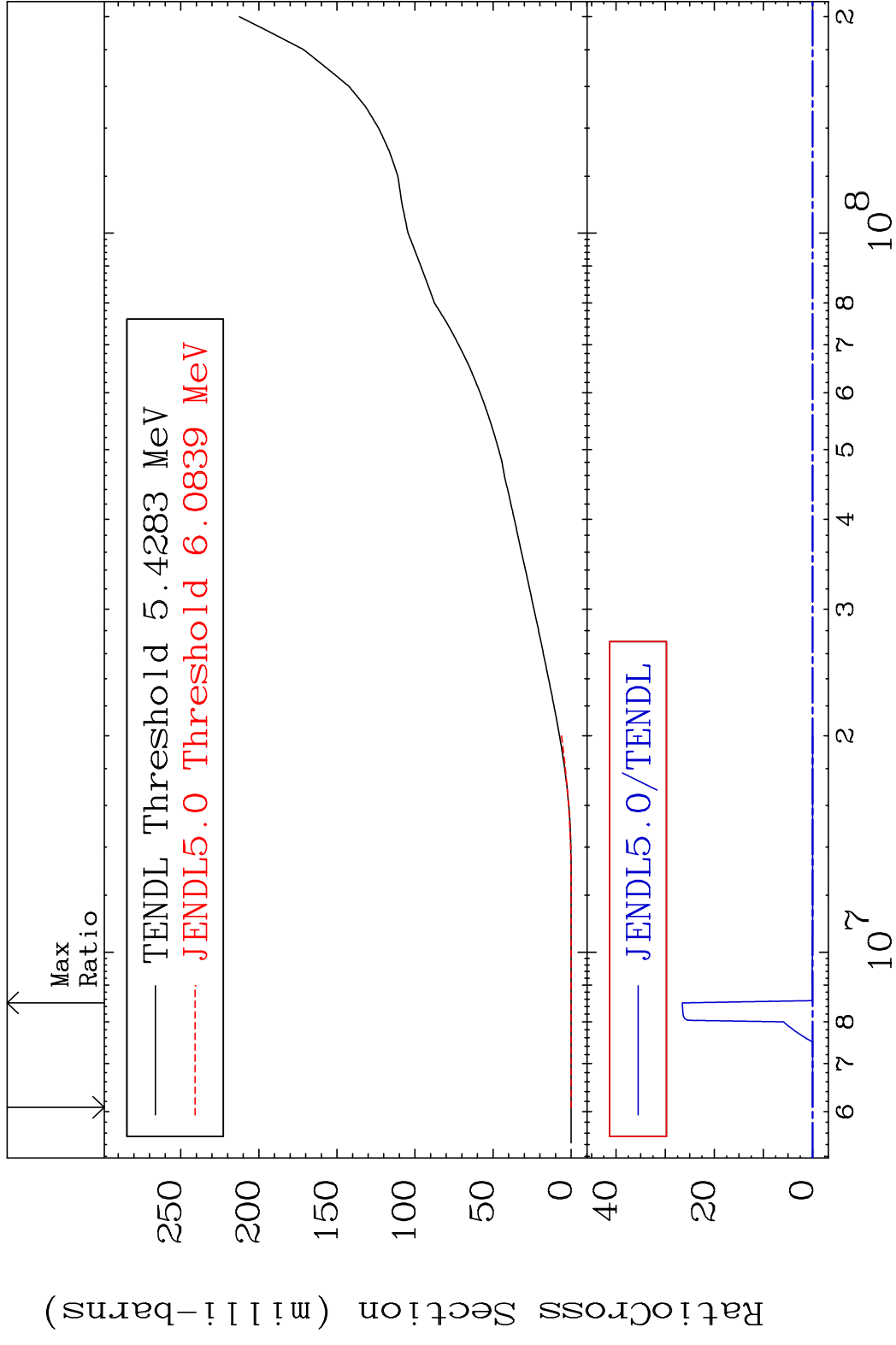
35

Incident Energy (eV)

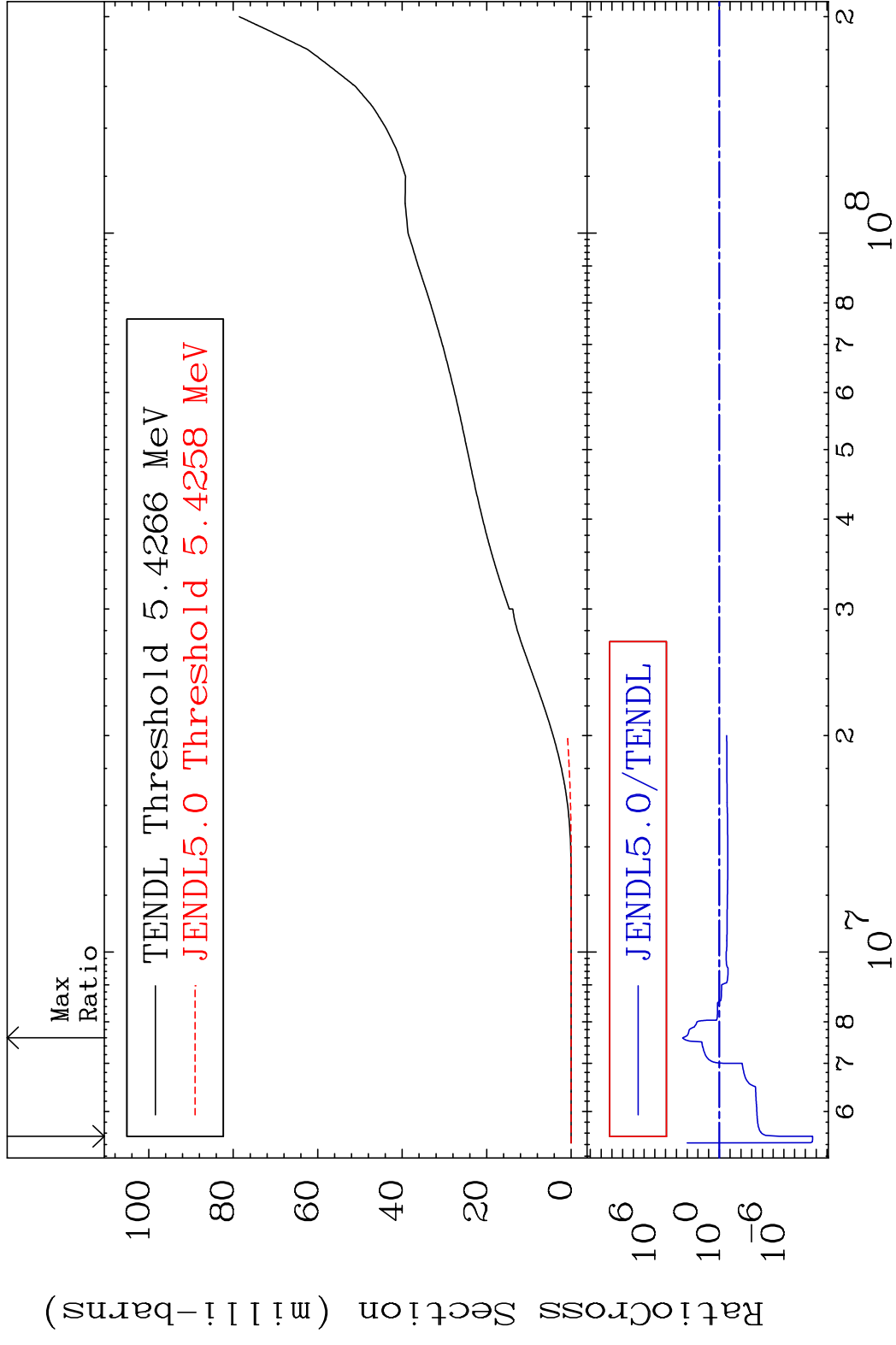
62-Sm-151



MAT 6246 Deuterium Production 62-Sm-151
 Cross Section -100.0 To 9999. %



MAT 6246 Tritium Production 62-Sm-151
 Cross Section -100.0 To 9999. %

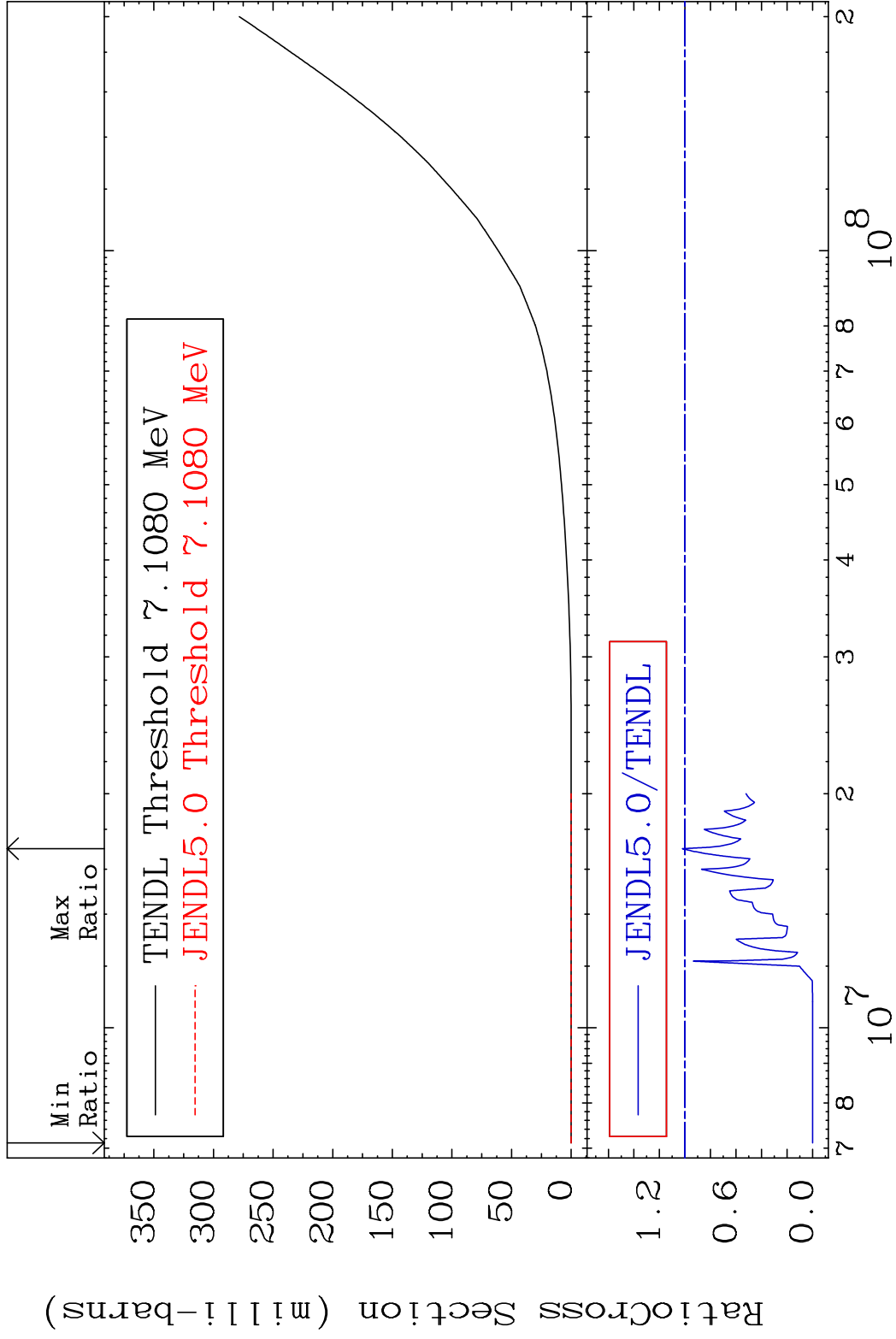


MAT 6246

He-3 Production

62-Sm-151

Cross Section -100.0 To 2.044 %



39

Incident Energy (eV)

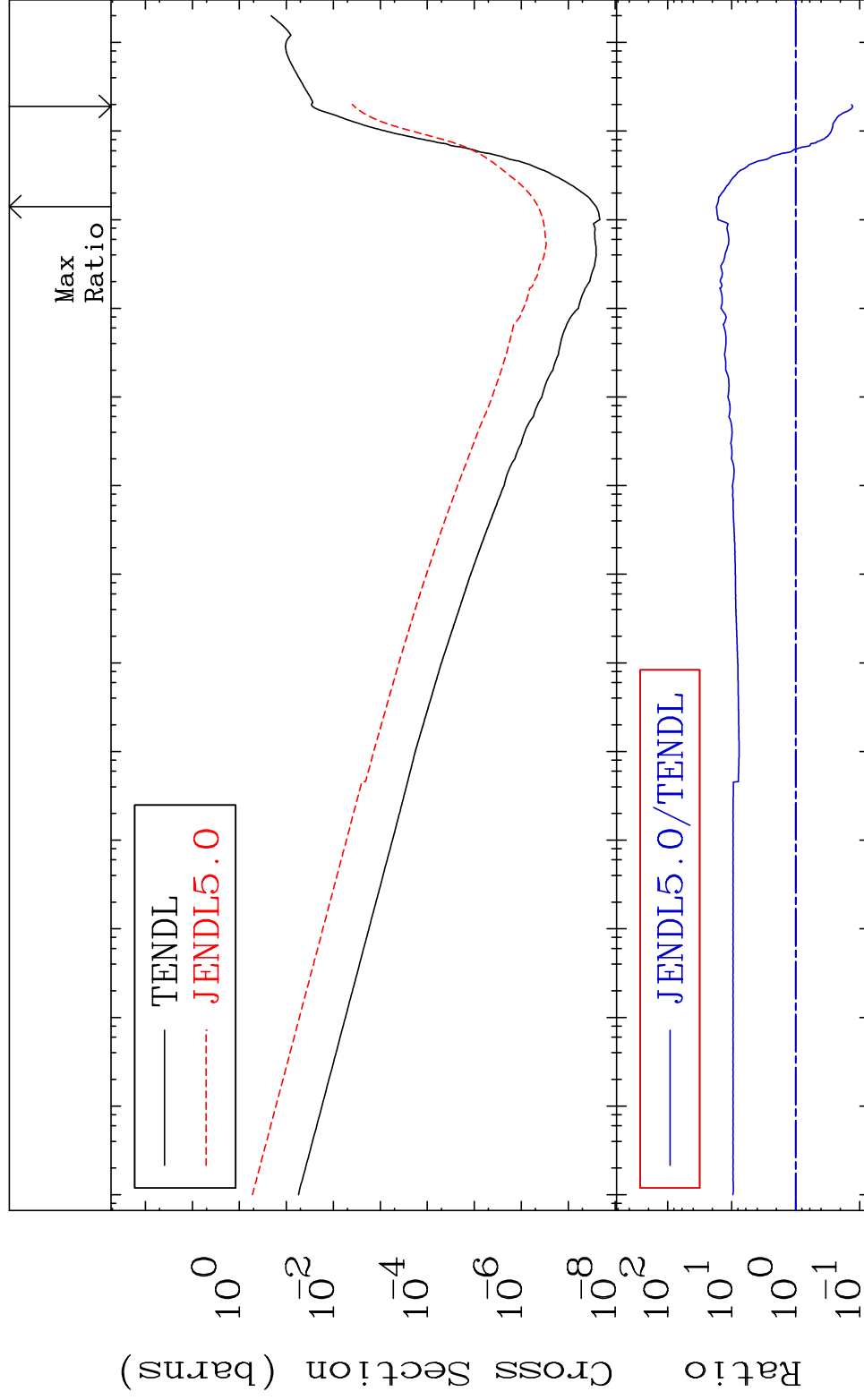
62-Sm-151

MAT 6246

He-4 Production

62-Sm-151

Cross Section -87.18 To 1637. %

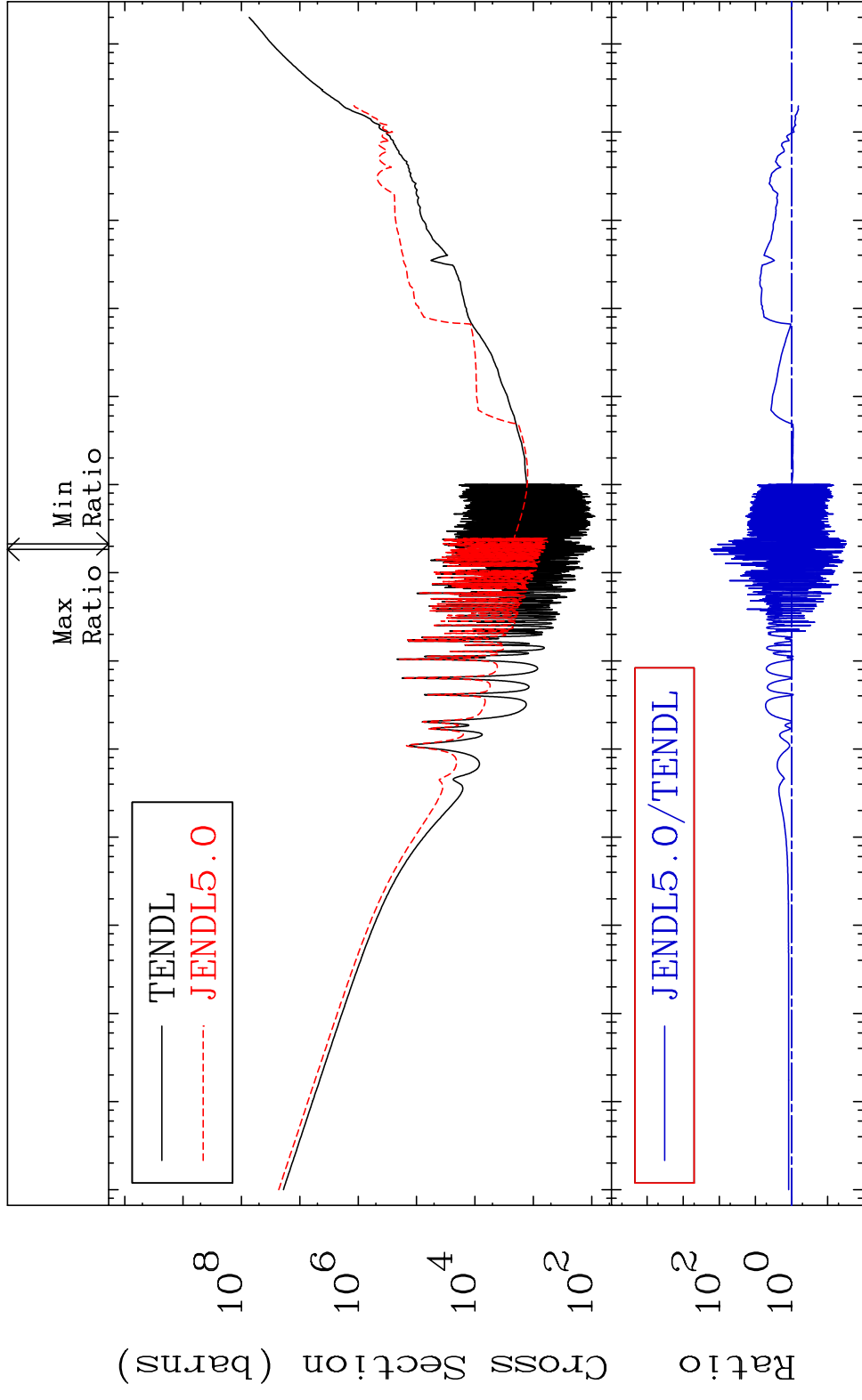


40

Incident Energy (eV)

62-Sm-151

MAT 6246 Kerma total (eV-barns) 62-Sm-151
 Cross Section -96.97 To 9999. %

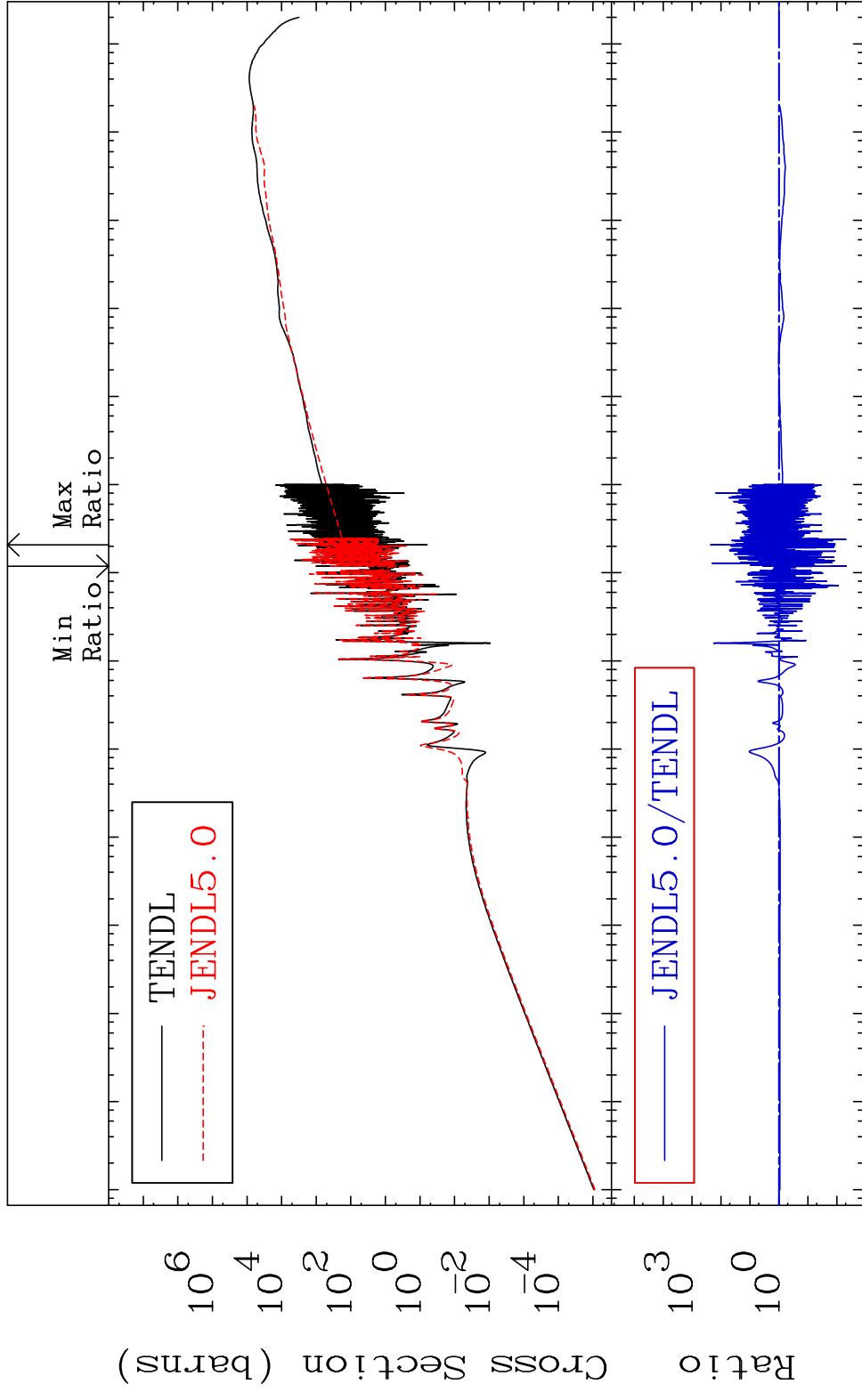


MAT 6246

Kerma elastic

62-Sm-151

Cross Section -99.53 To 9999. %



Cross Section (barns)

Ratio

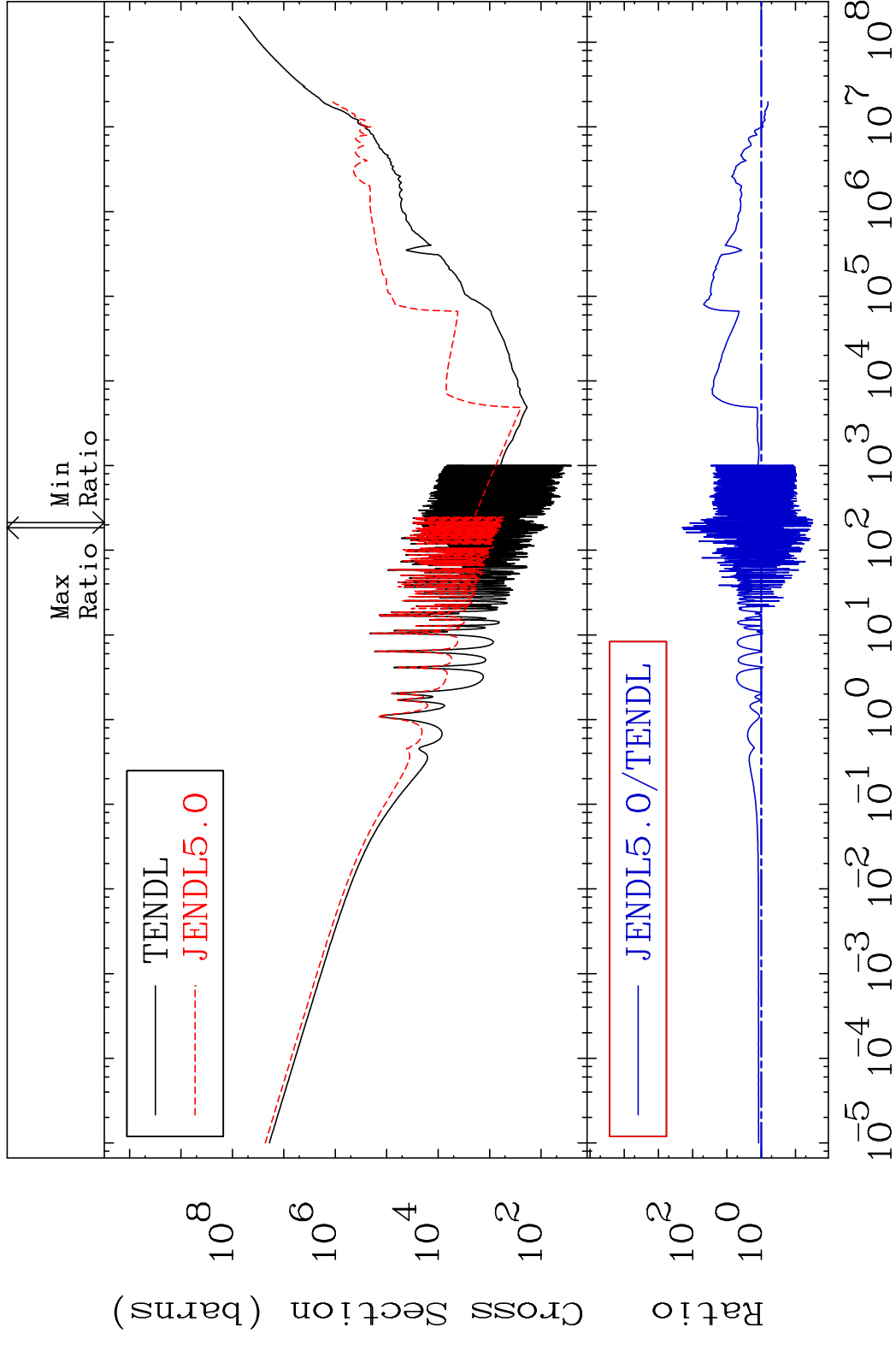
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

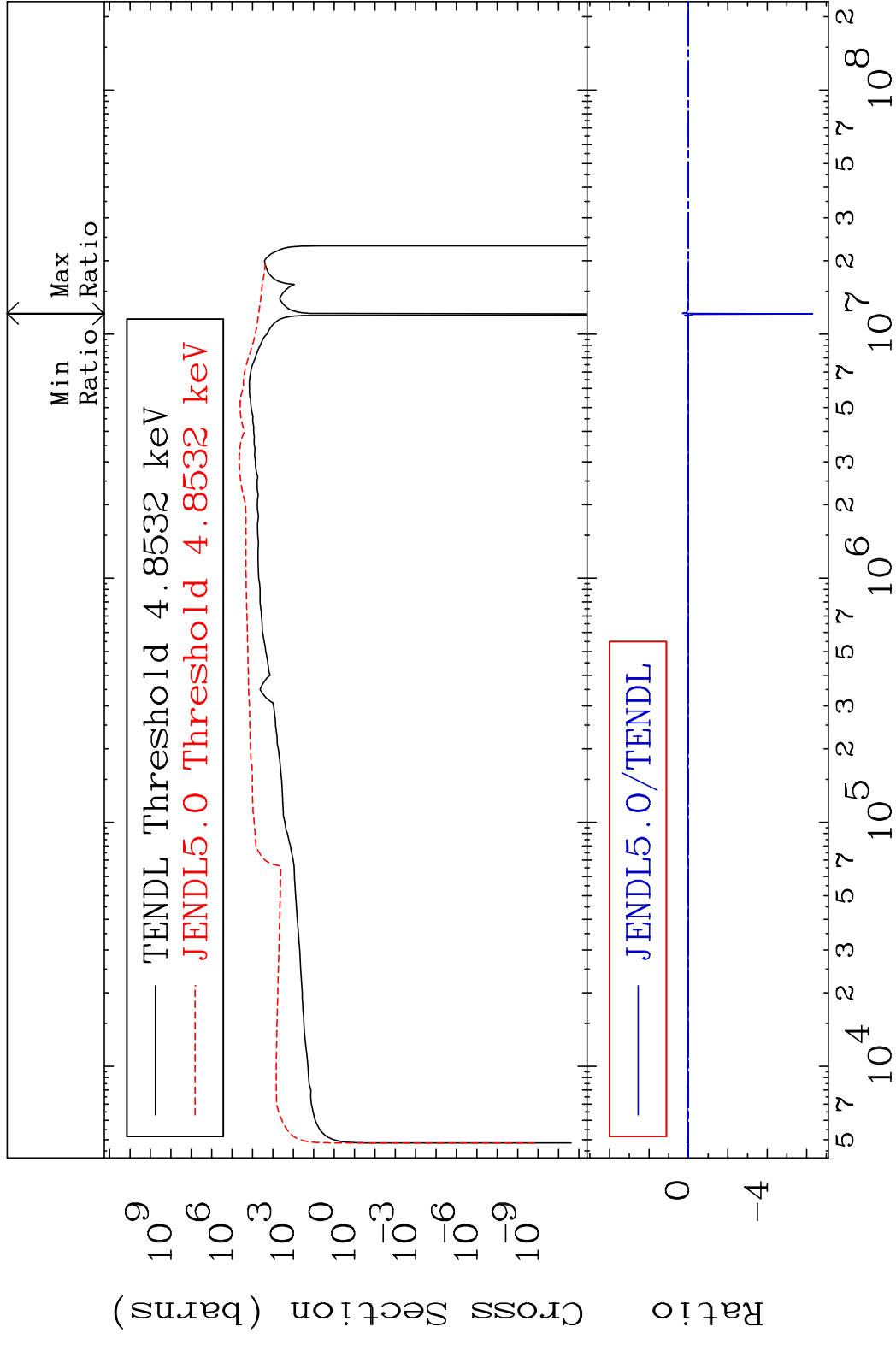
42

Incident Energy (eV)

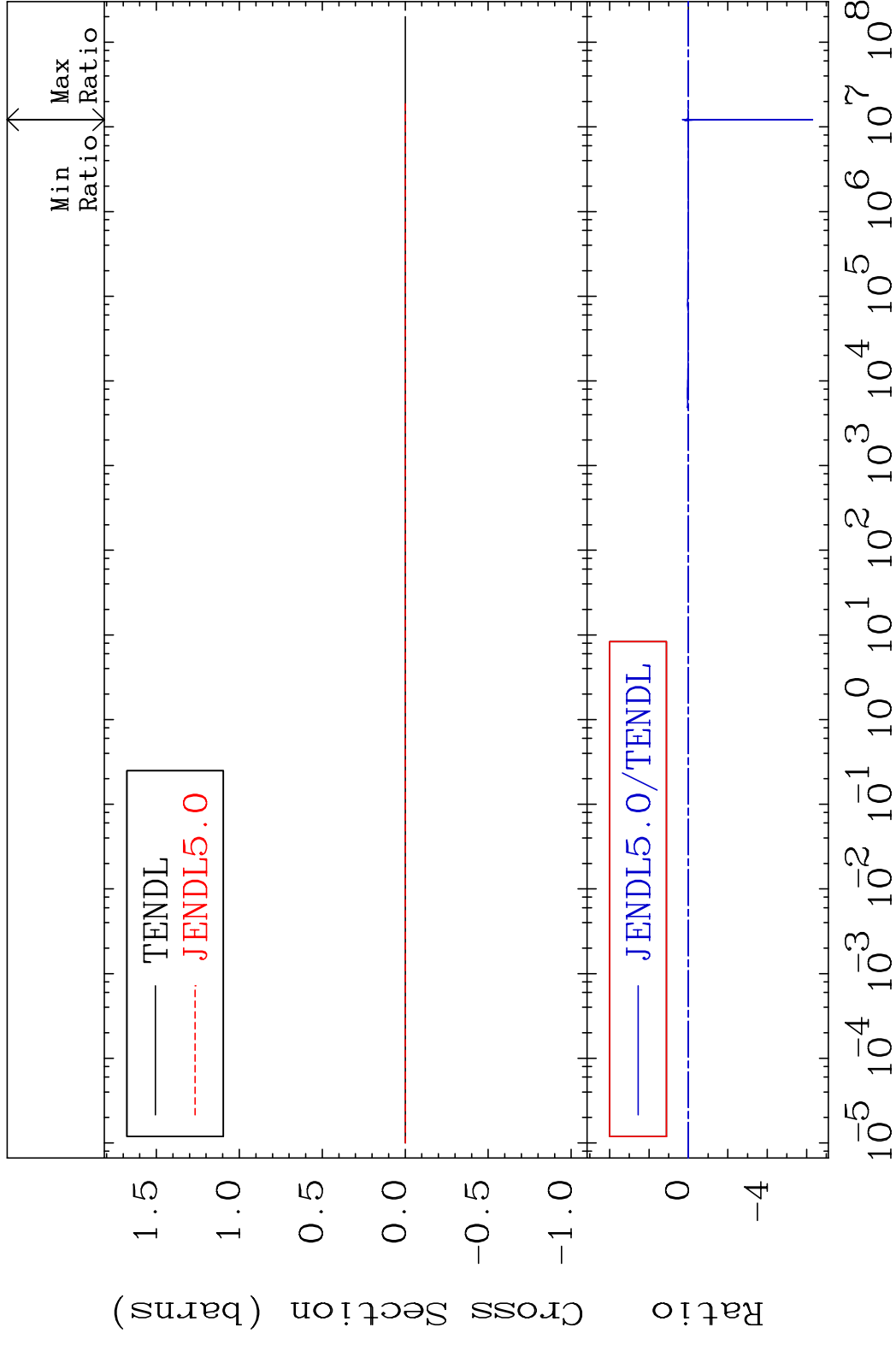
62-Sm-151

MAT 6246 Kerma non-elastic (all but mt2) 62-Sm-151
 Cross Section -96.84 To 9999. %



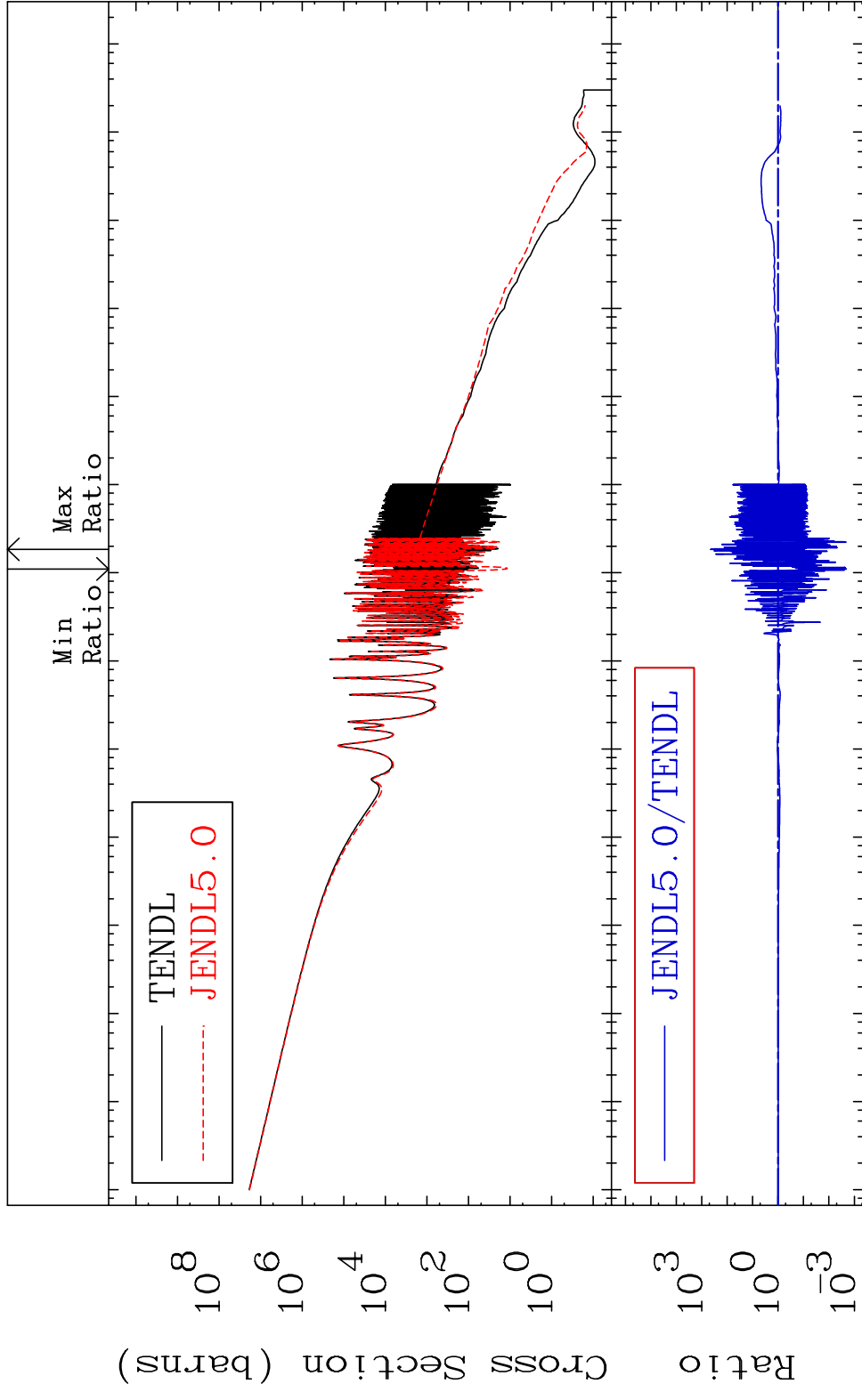


MAT 6246 Kerma fission (mt18 or mt19-20-21-38) 62-Sm-151
 Cross Section -9999. To 9999. %



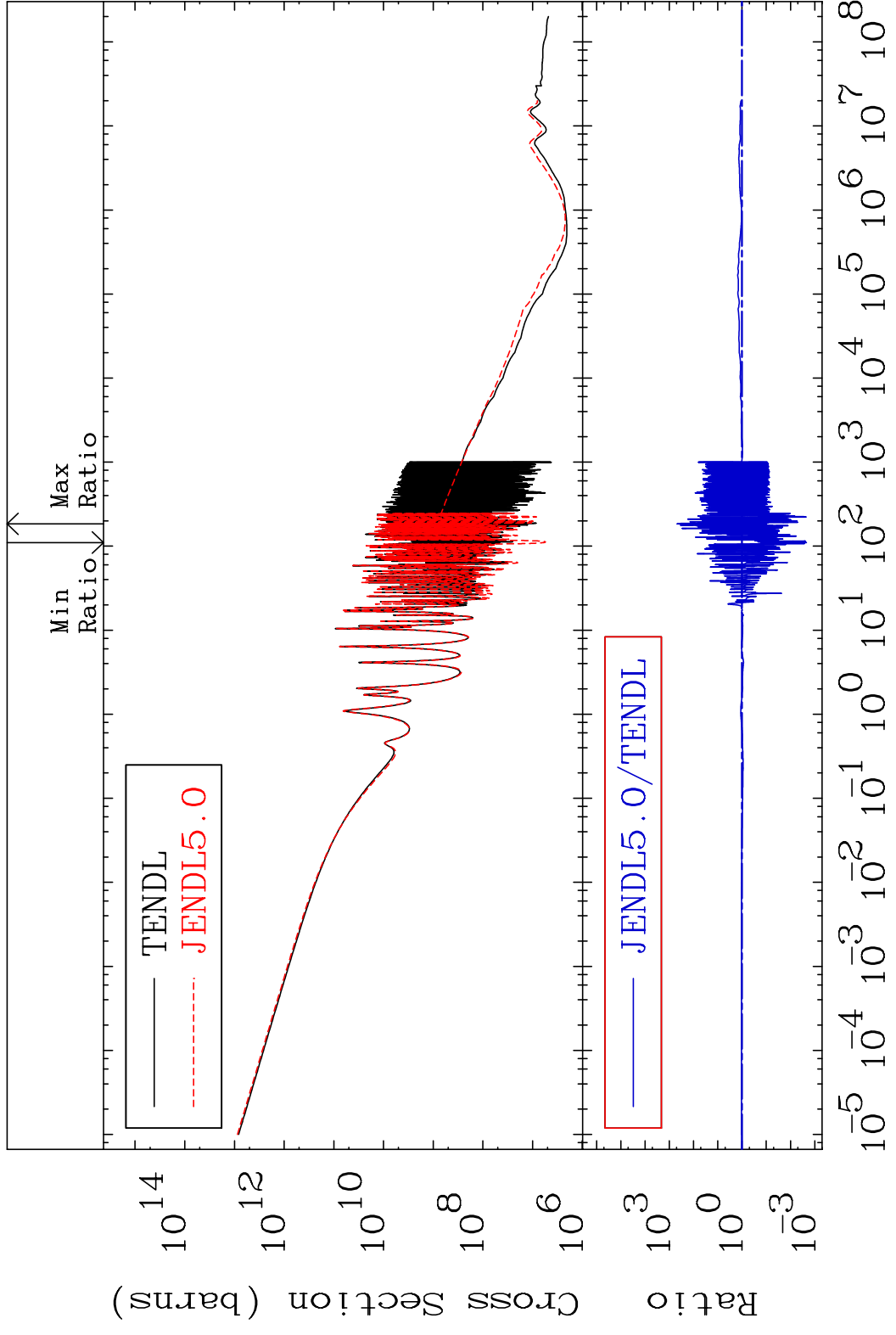
MAT 6246

Kerma capture (mt102) 62-Sm-151
Cross Section -99.79 To 9999. %



MAT 6246

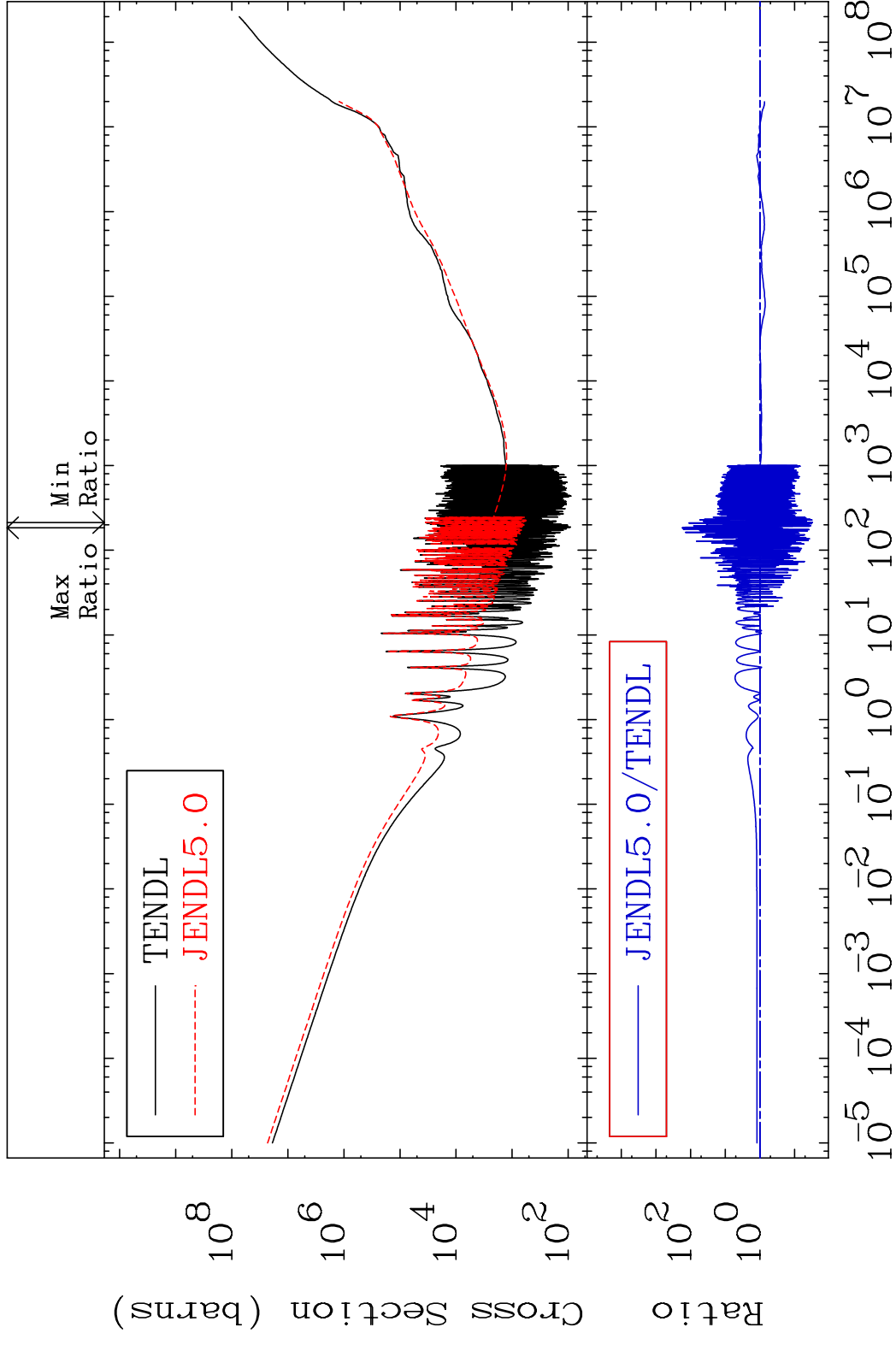
Total photon (eV-barns) 62-Sm-151
Cross Section -99.78 To 9999. %



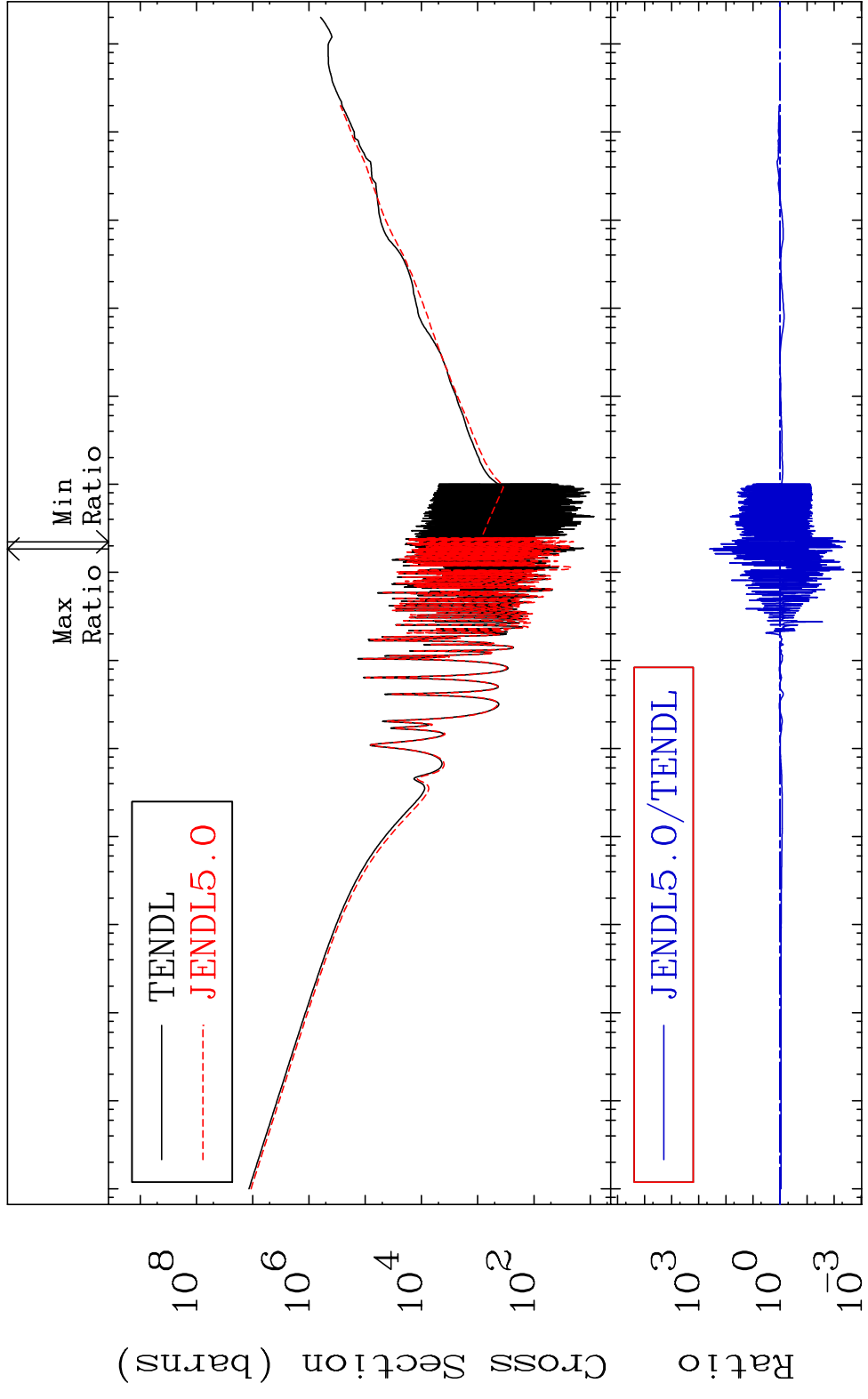
47

Incident Energy (eV) 62-Sm-151

MAT 6246 Total kinematic kerma (high limit) 62-Sm-151
 Cross Section -96.97 To 9999. %



MAT 6246 Dpa total (eV-barns) 62-Sm-151
 Cross Section -99.61 To 9999. %



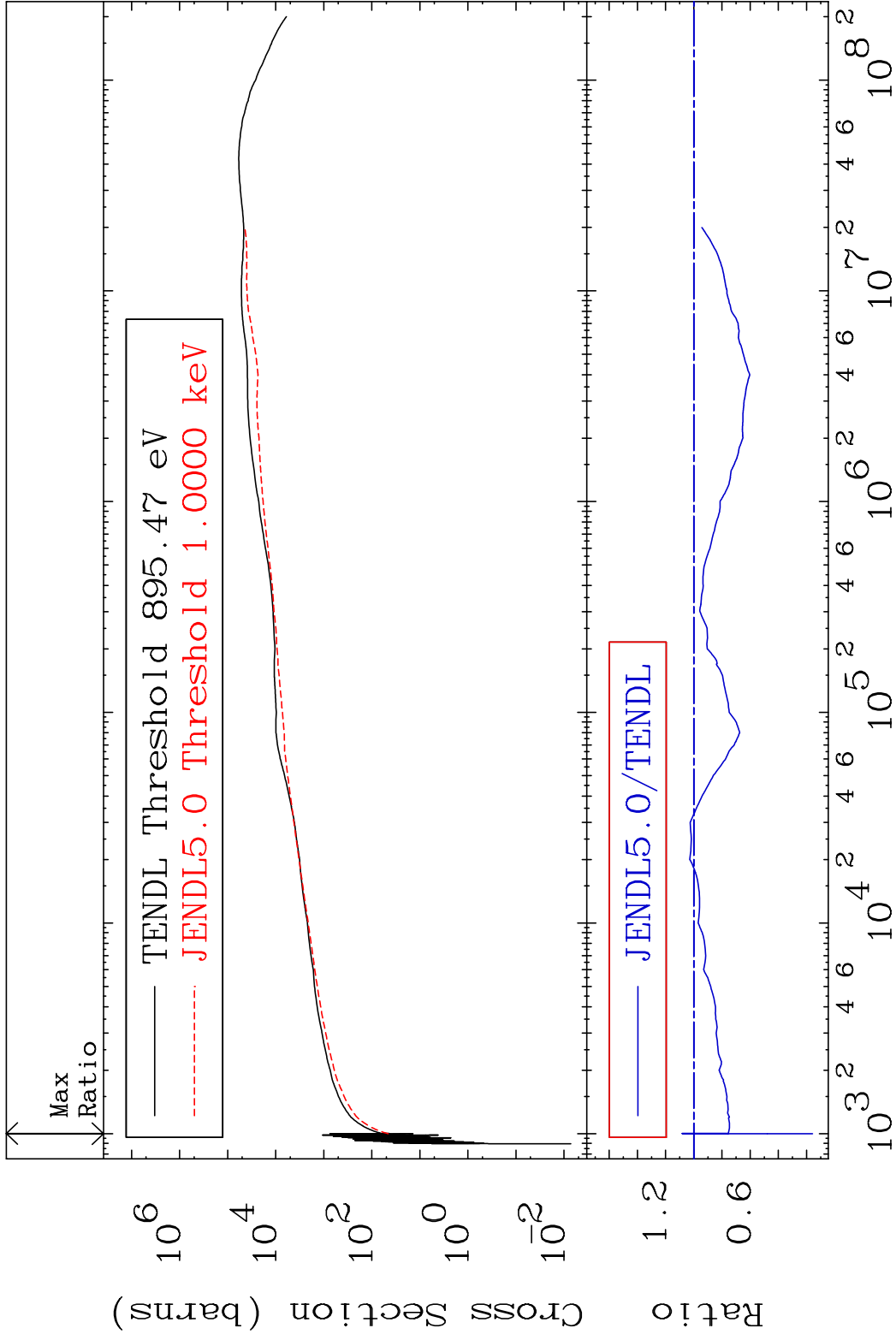
49 Incident Energy (eV) 62-Sm-151

MAT 6246

Dpa elastic (mt2)

62-Sm-151

Cross Section -84.18 To 8.269 %

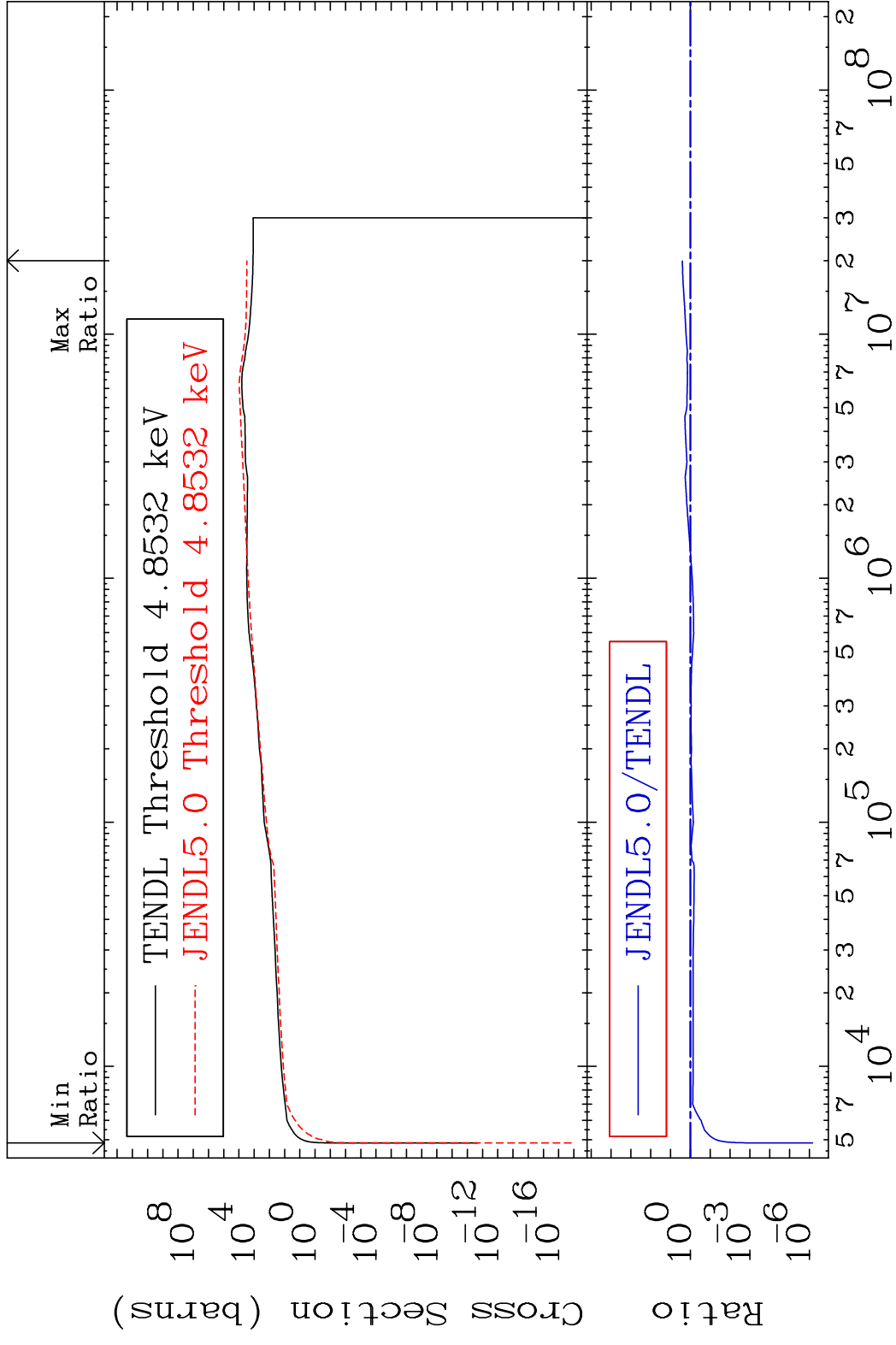


50

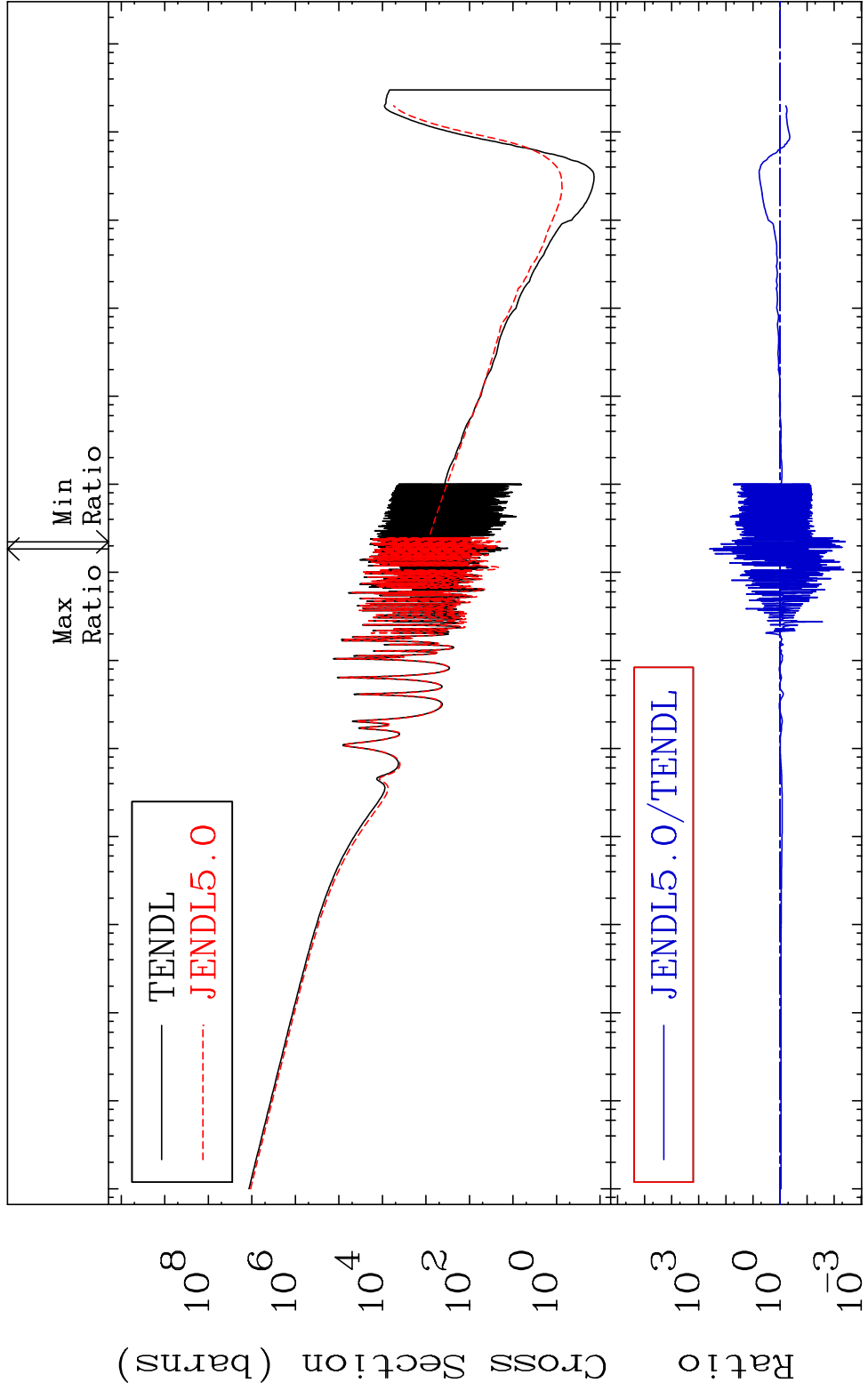
Incident Energy (eV)

62-Sm-151

MAT 6246 Dpa inelastic (mt51-91) 62-Sm-151
 Cross Section -100.0 To 154.4 %

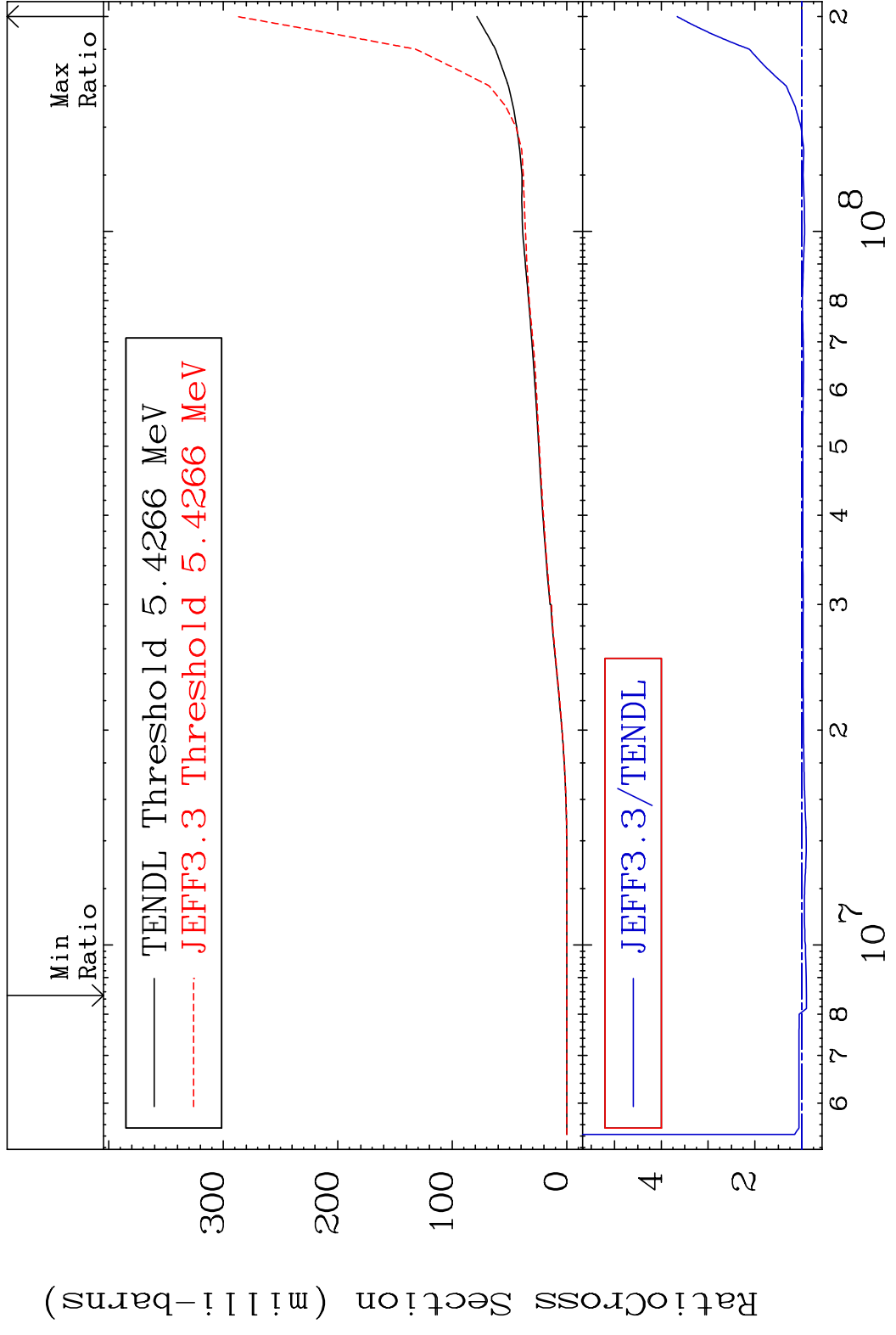


MAT 6246 Dpa disappearance (mt102 -120) 62-Sm-151
 Cross Section -99.61 To 9999. %



MAT 6246

Tritium Production 62-Sm-151
Cross Section -10.09 To 266.1 %

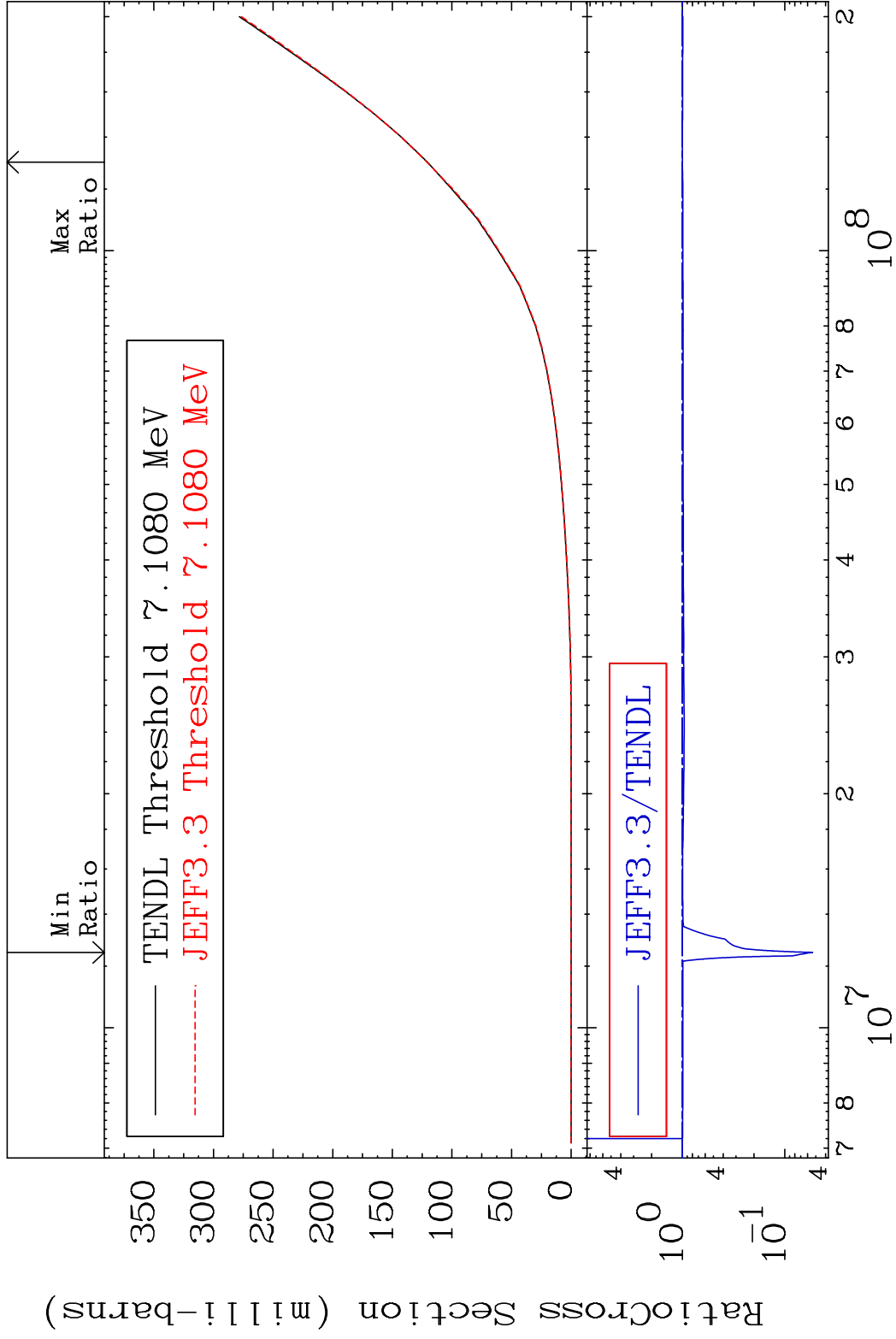


MAT 6246

He-3 Production

62-Sm-151

Cross Section -94.63 To 0.306 %



54

Incident Energy (eV)

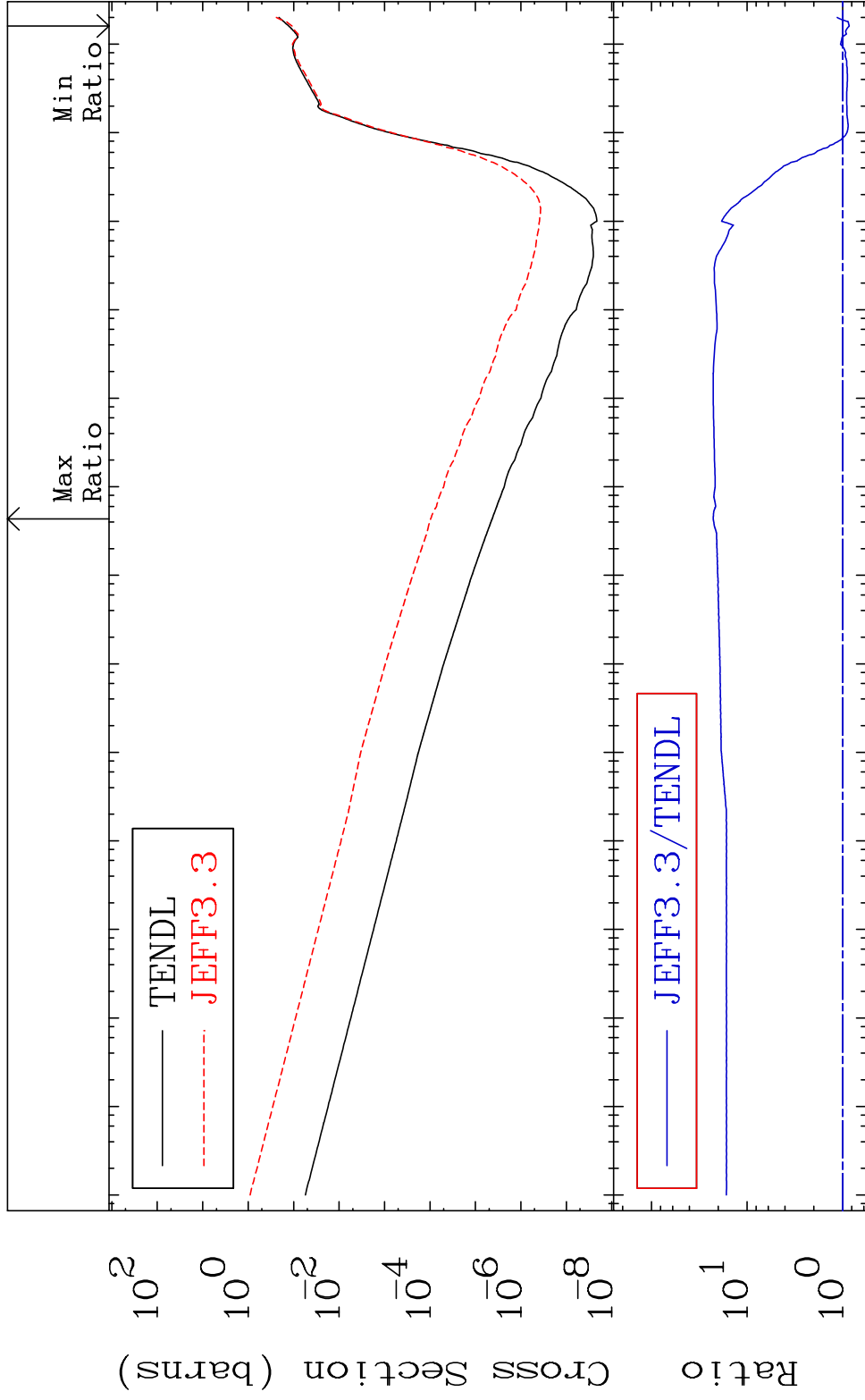
62-Sm-151

MAT 6246

He-4 Production

62-Sm-151

Cross Section -14.94 To 2157. %



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

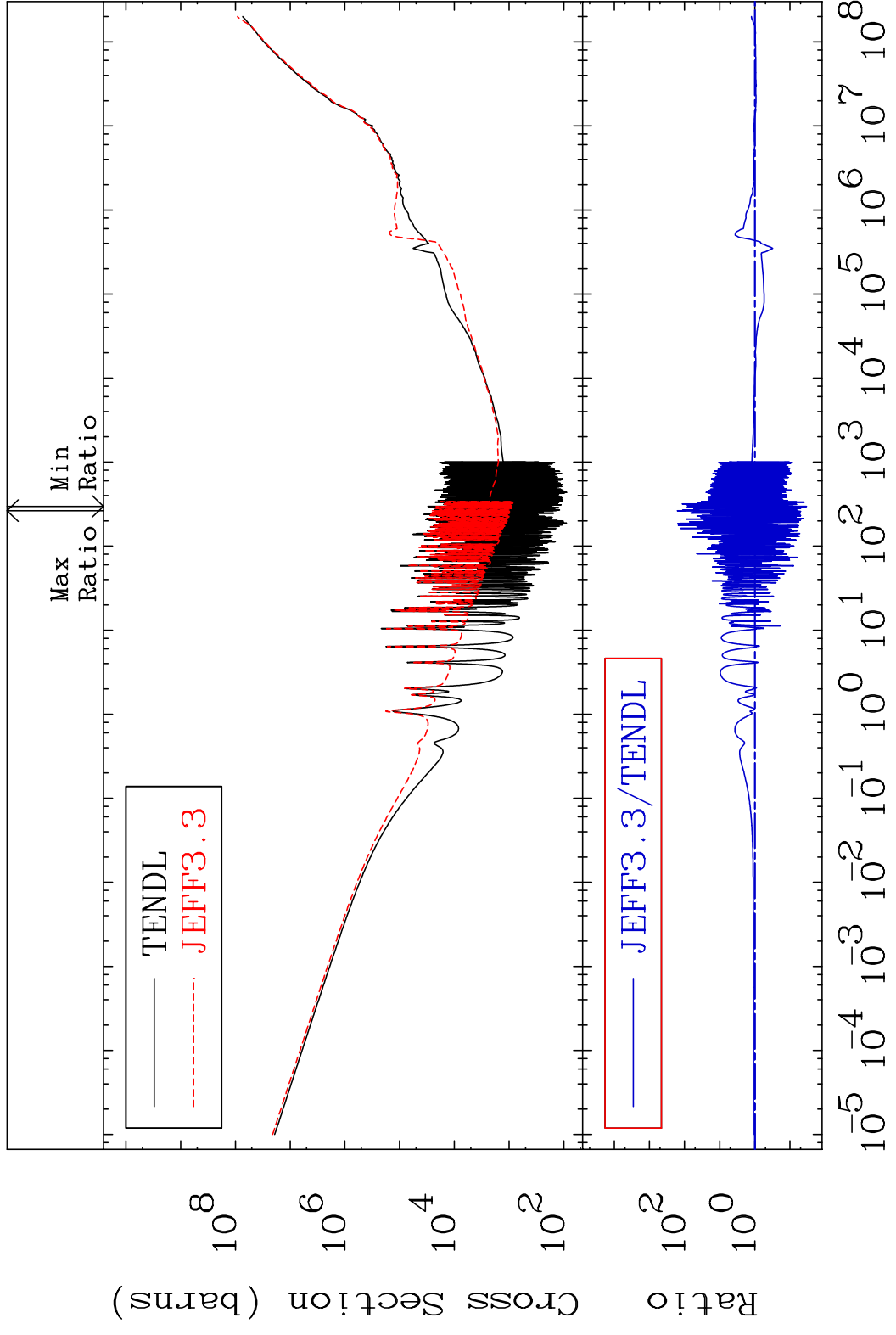
55

Incident Energy (eV)

62-Sm-151

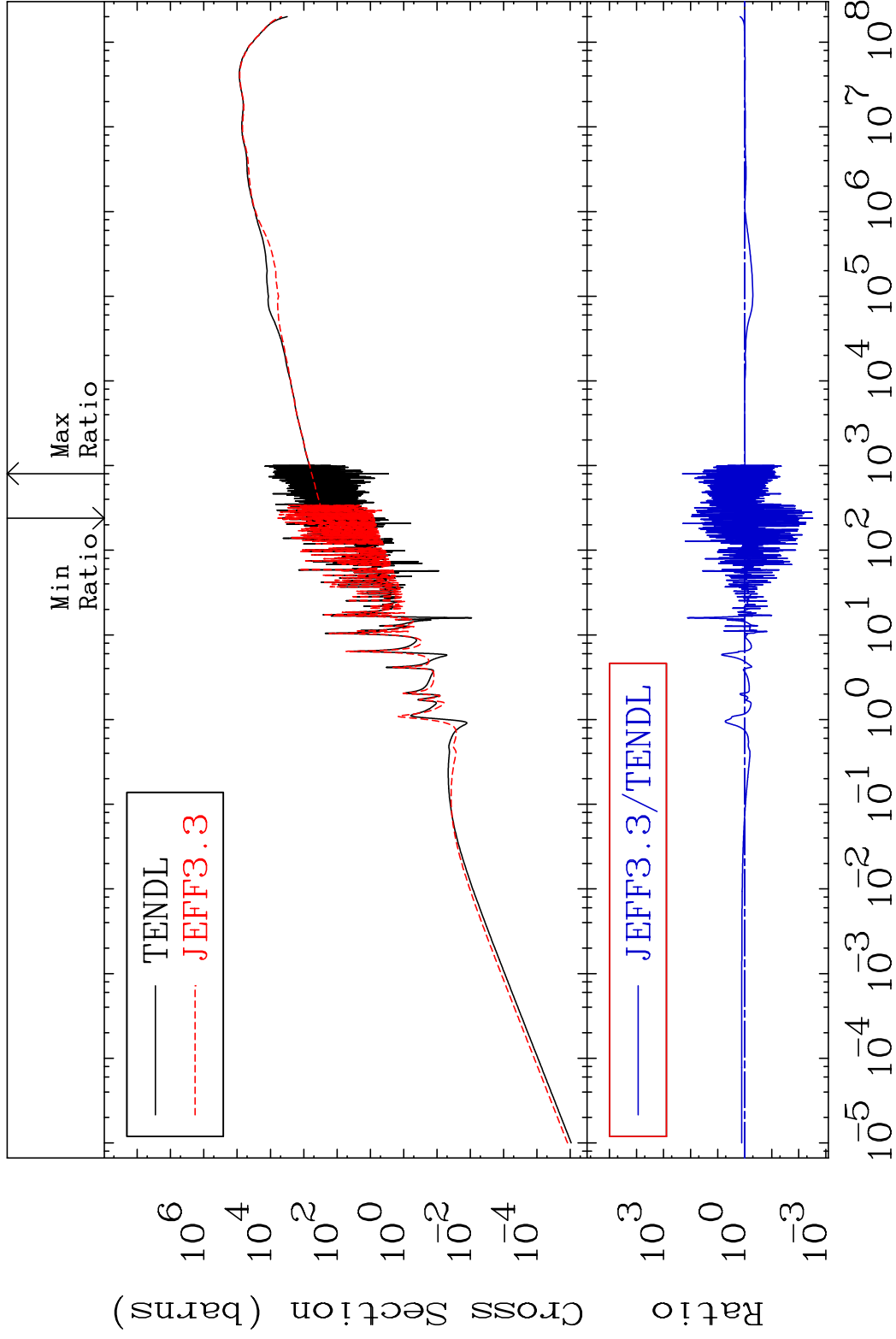
MAT 6246

Kerma total (eV-barns) 62-Sm-151
Cross Section -96.59 To 9999. %



MAT 6246

Kerma elastic Cross Section -99.69 To 9999. %
62-Sm-151

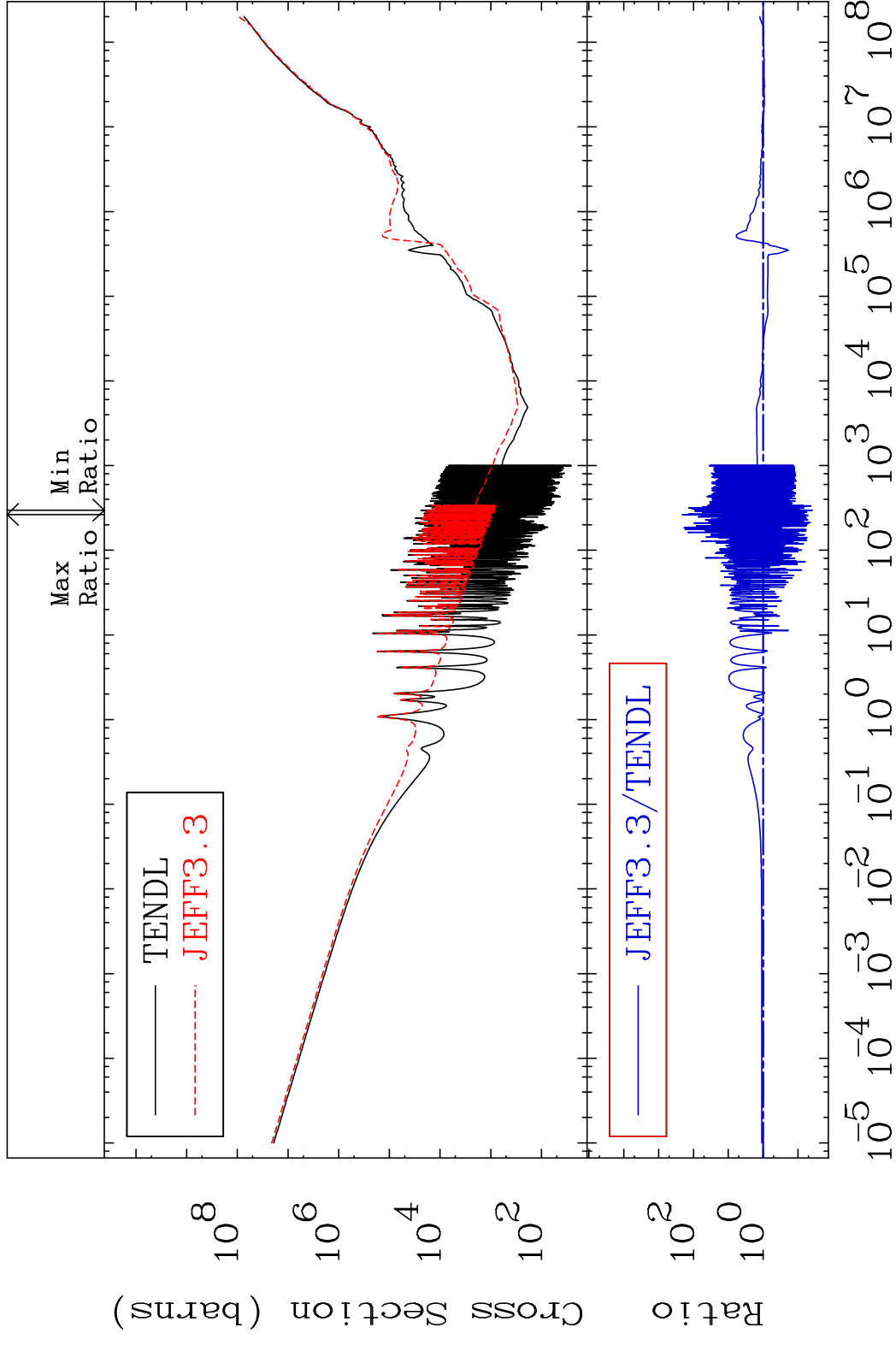


57

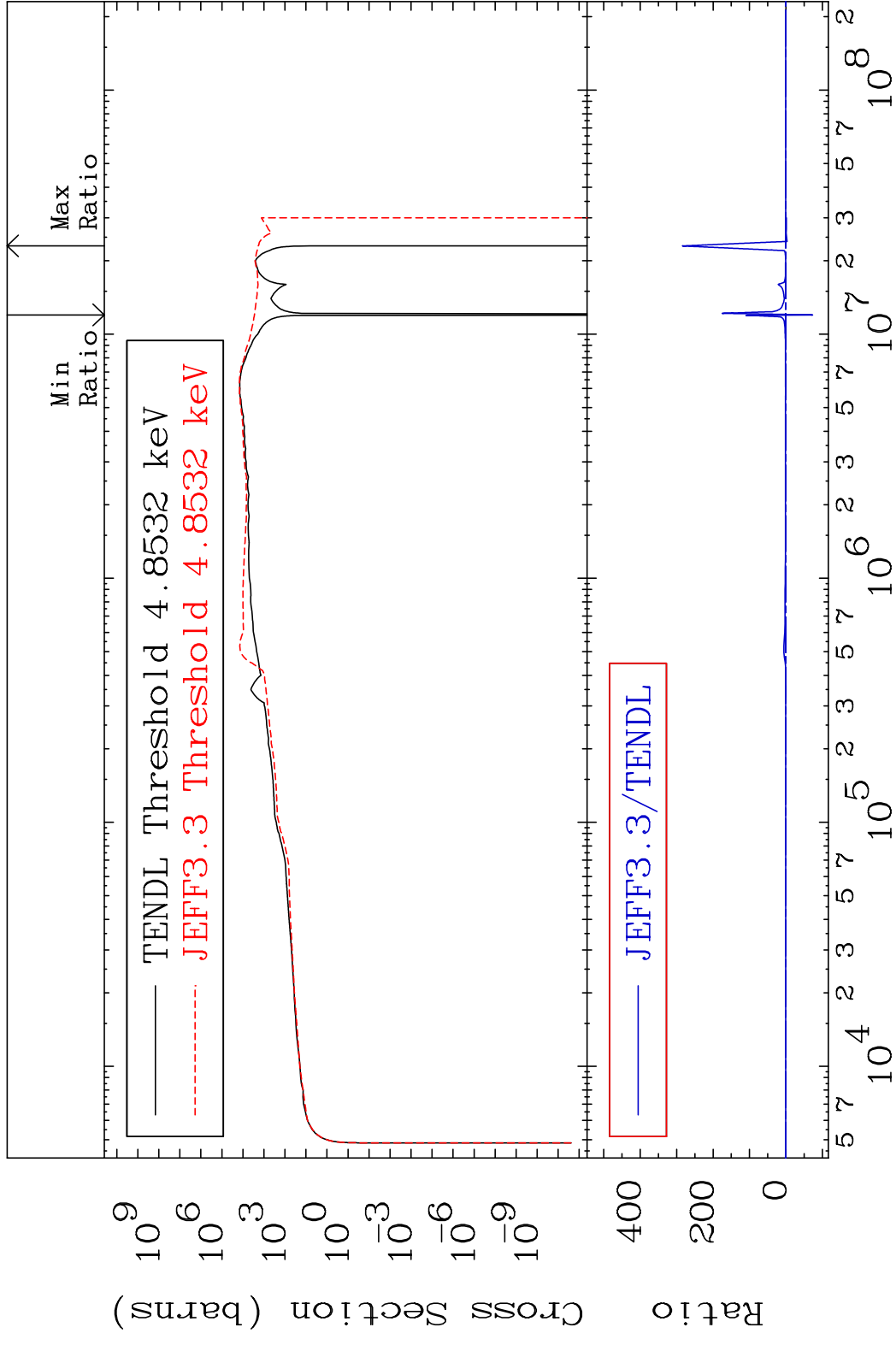
Incident Energy (eV)

62-Sm-151

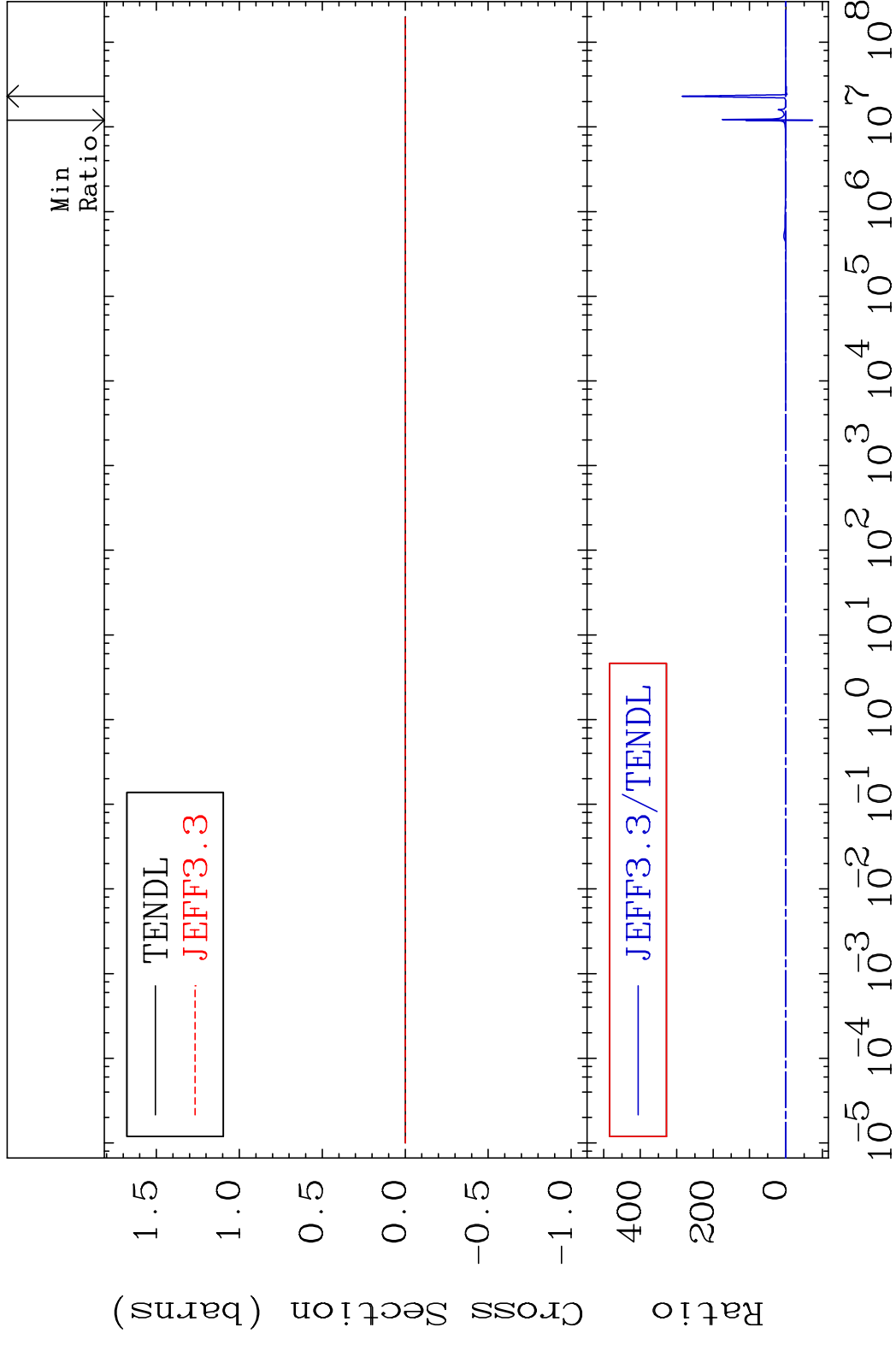
MAT 6246 Kerma non-elastic (all but mt2) 62-Sm-151
 Cross Section -96.18 To 9999. %



MAT 6246 Kerma inelastic (mt51-91) 62-Sm-151
 Cross Section -7398. To 9999. %



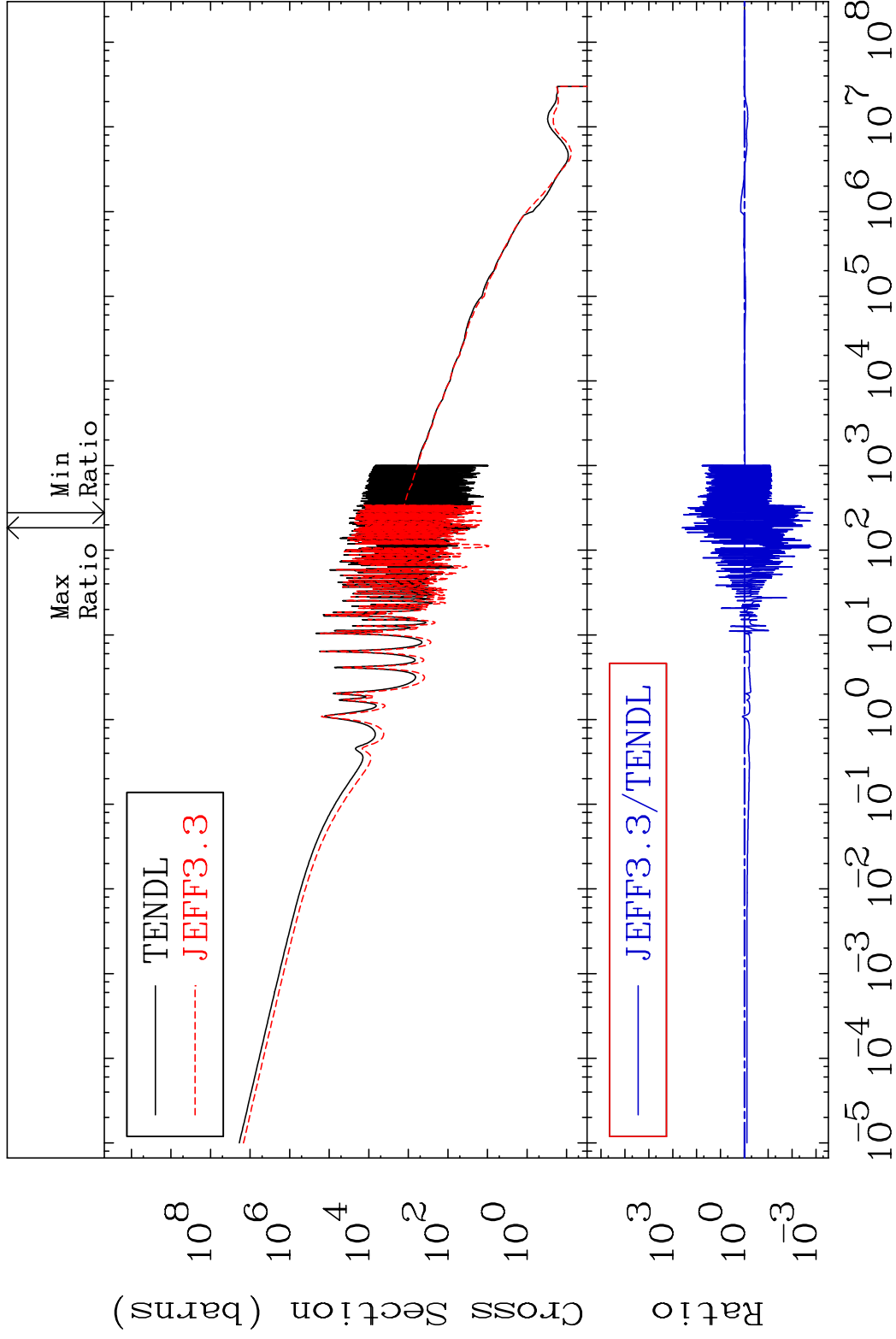
MAT 6246 Kerma fission (mt18 or mt19-20-21-38) 62-Sm-151
 Cross Section -7398. To 9999. %



MAT 6246

Kerma capture (mt102) 62-Sm-151

Cross Section -99.86 To 9999. %



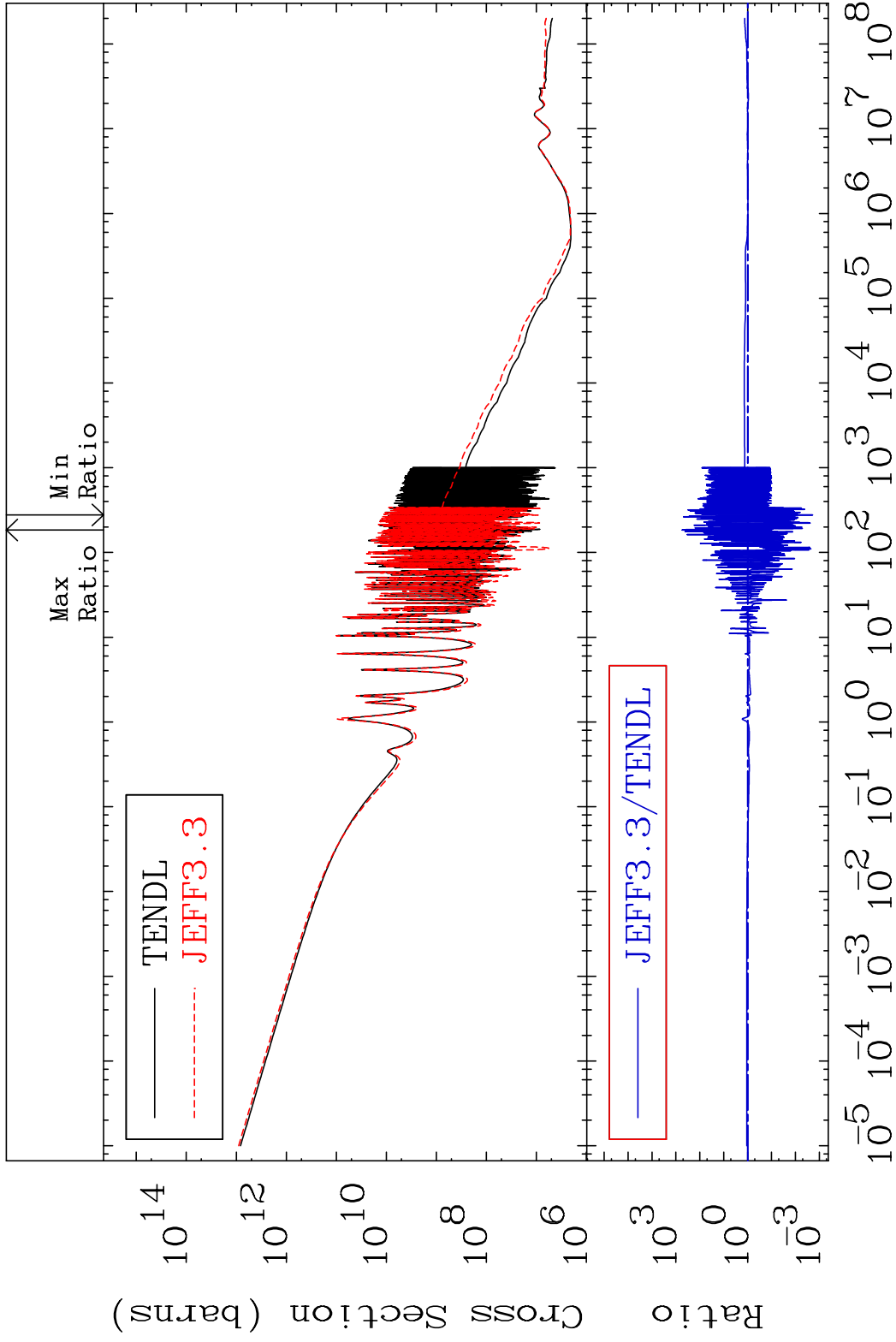
61

Incident Energy (eV)

62-Sm-151

MAT 6246

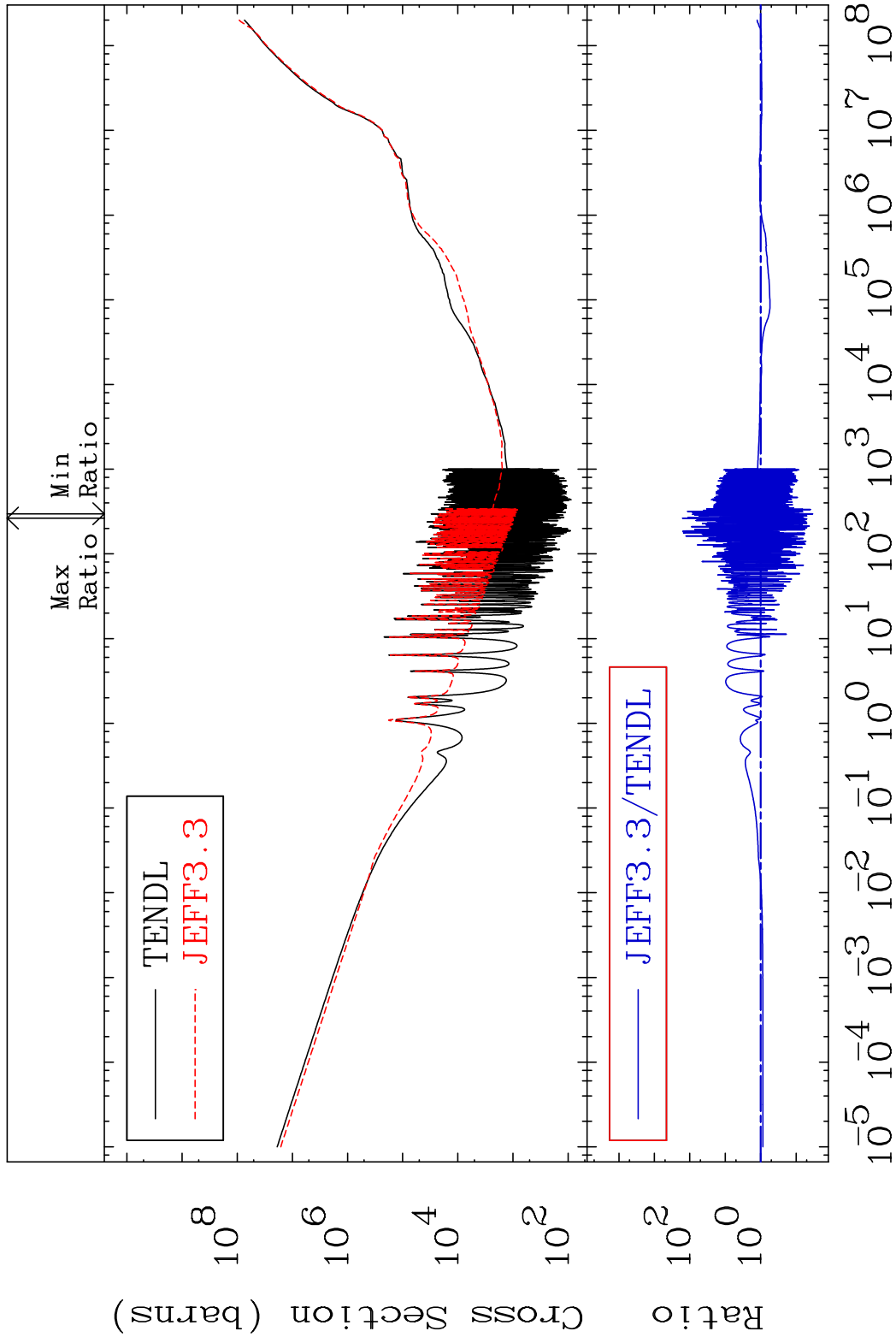
Total photon (eV-barns) 62-Sm-151
Cross Section -99.81 To 9999. %



62

Incident Energy (eV) 62-Sm-151

MAT 6246 Total kinematic kerma (high limit) 62-Sm-151
 Cross Section -96.57 To 9999. %

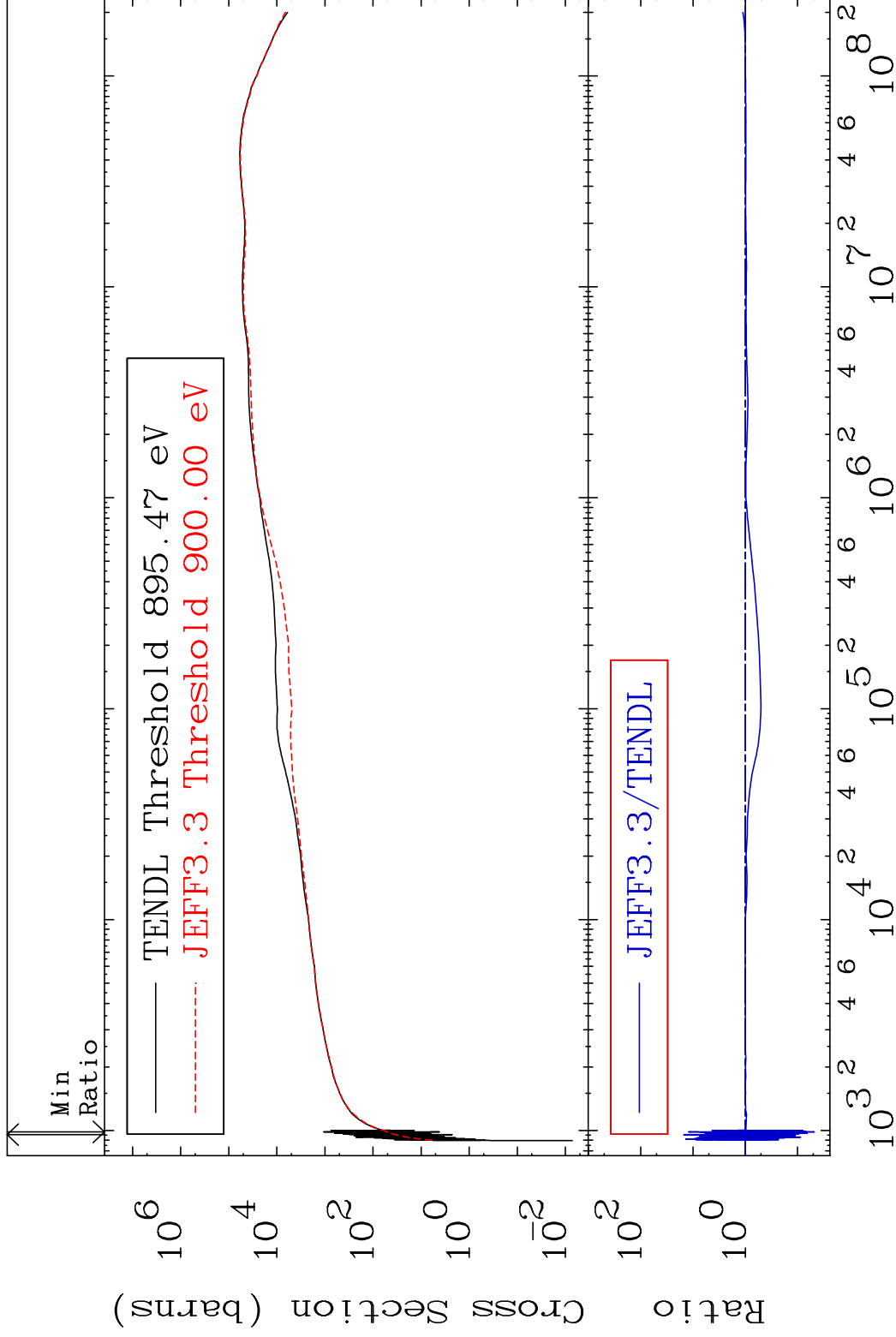


MAT 6246

Dpa elastic (mt2)

62-Sm-151

Cross Section -95.18 To 1410. %

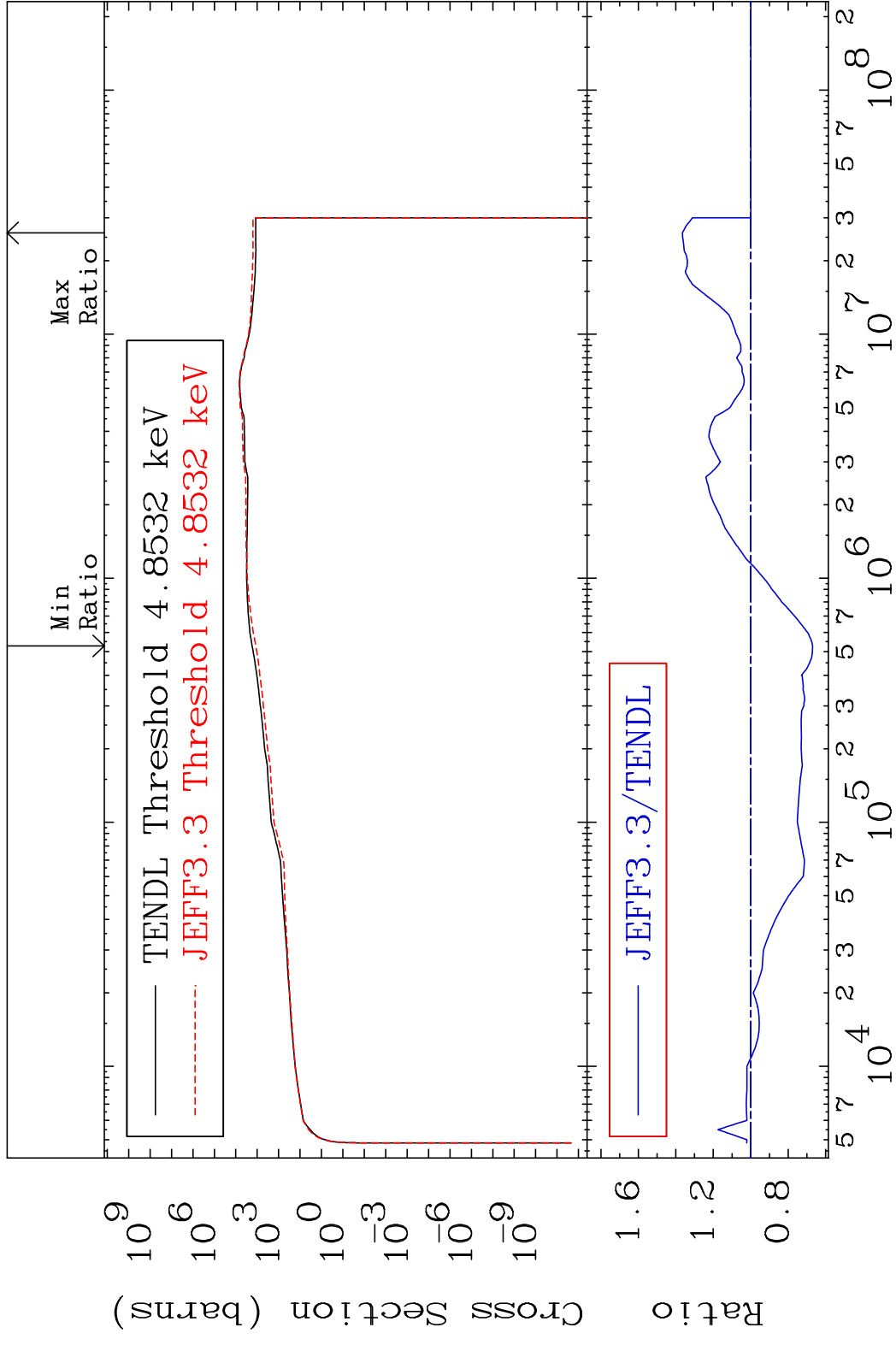


65

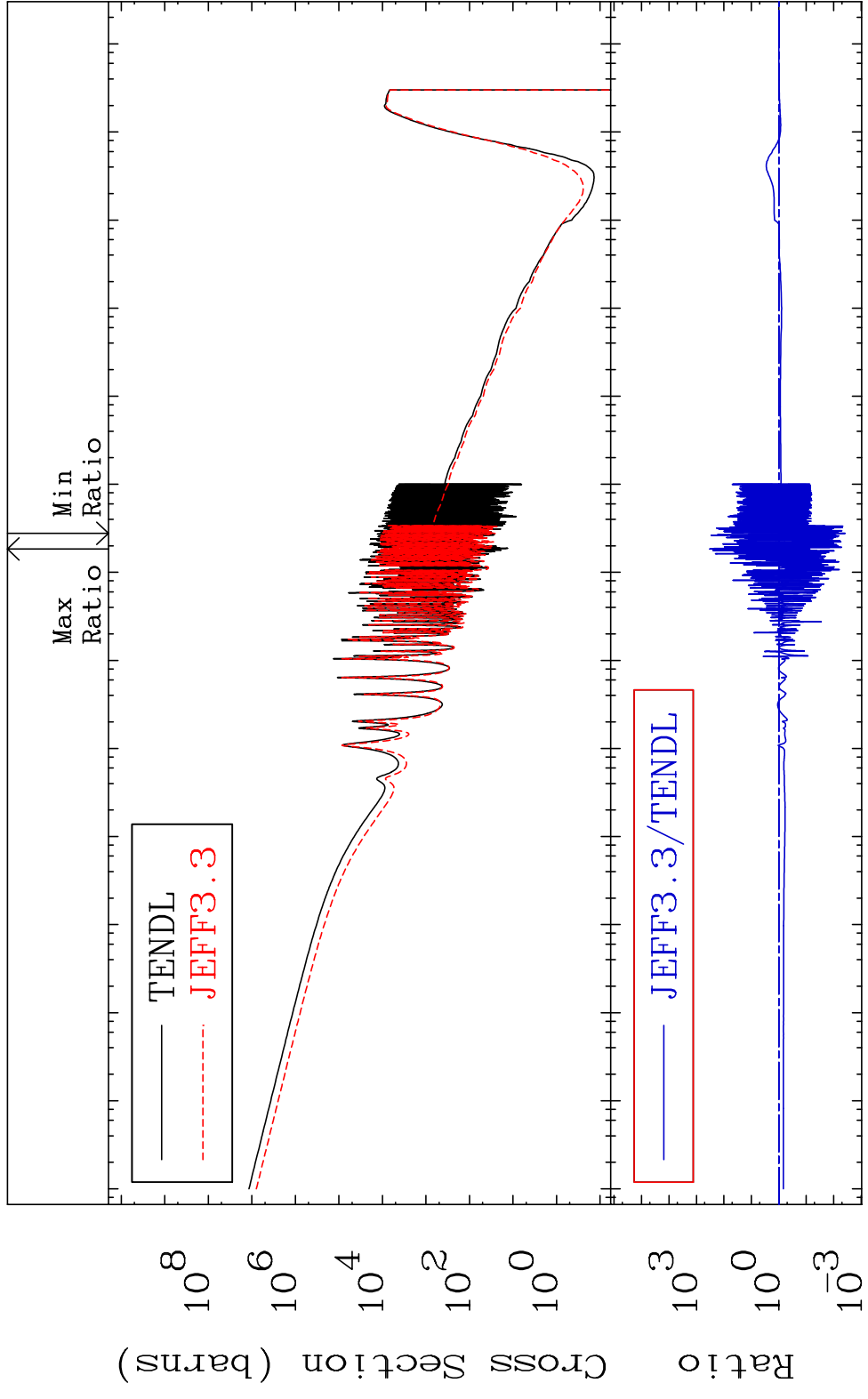
Incident Energy (eV)

62-Sm-151

MAT 6246 Dpa inelastic (mt51-91) 62-Sm-151
 Cross Section -33.04 To 36.52 %



MAT 6246 Dpa disappearance (mt102 -120) 62-Sm-151
 Cross Section -99.62 To 9999. %



67 Incident Energy (eV) 62-Sm-151

