

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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U.S.A.

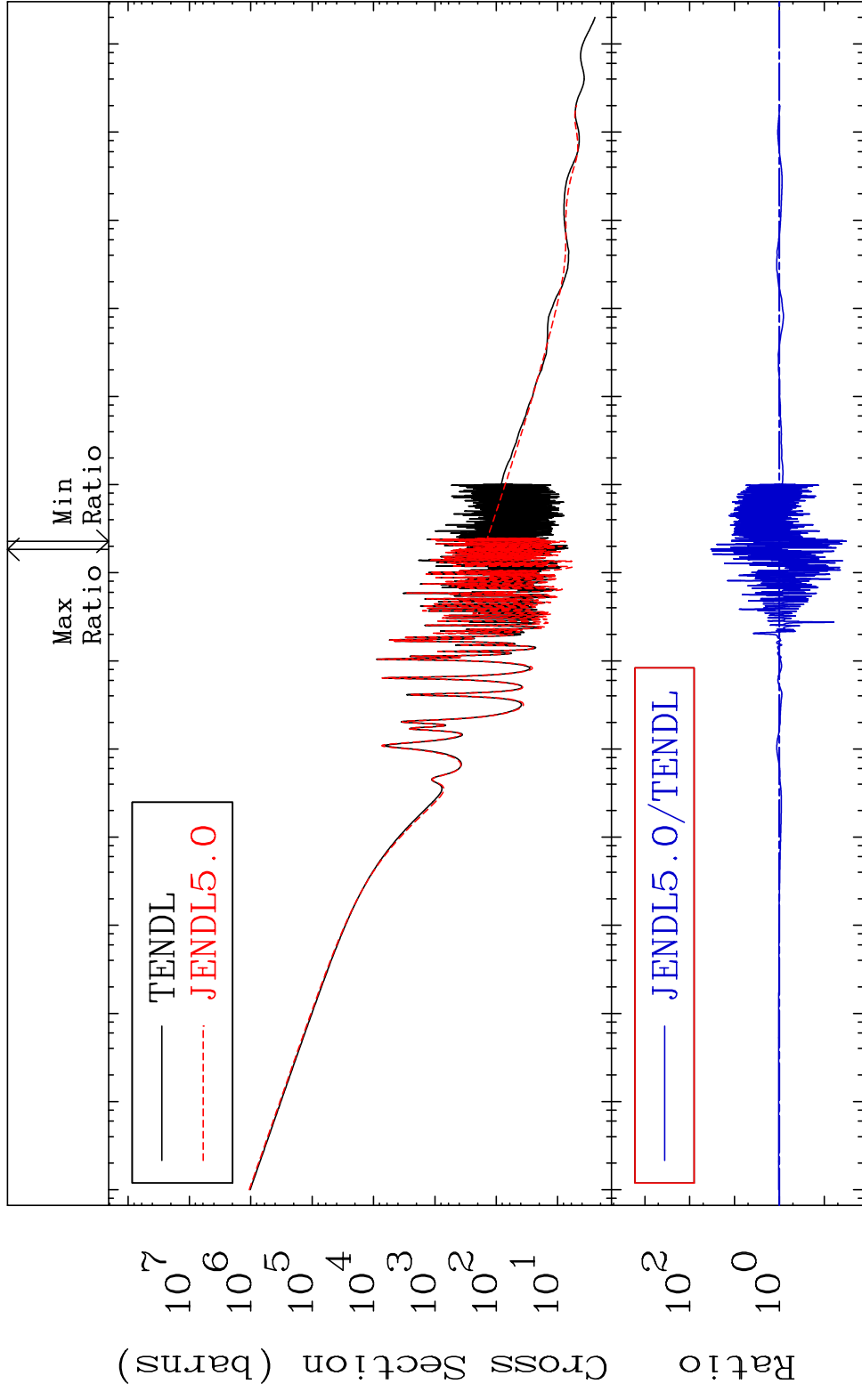
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6246

Total Cross Section -96.78 To 3301. %
62-Sm-151



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

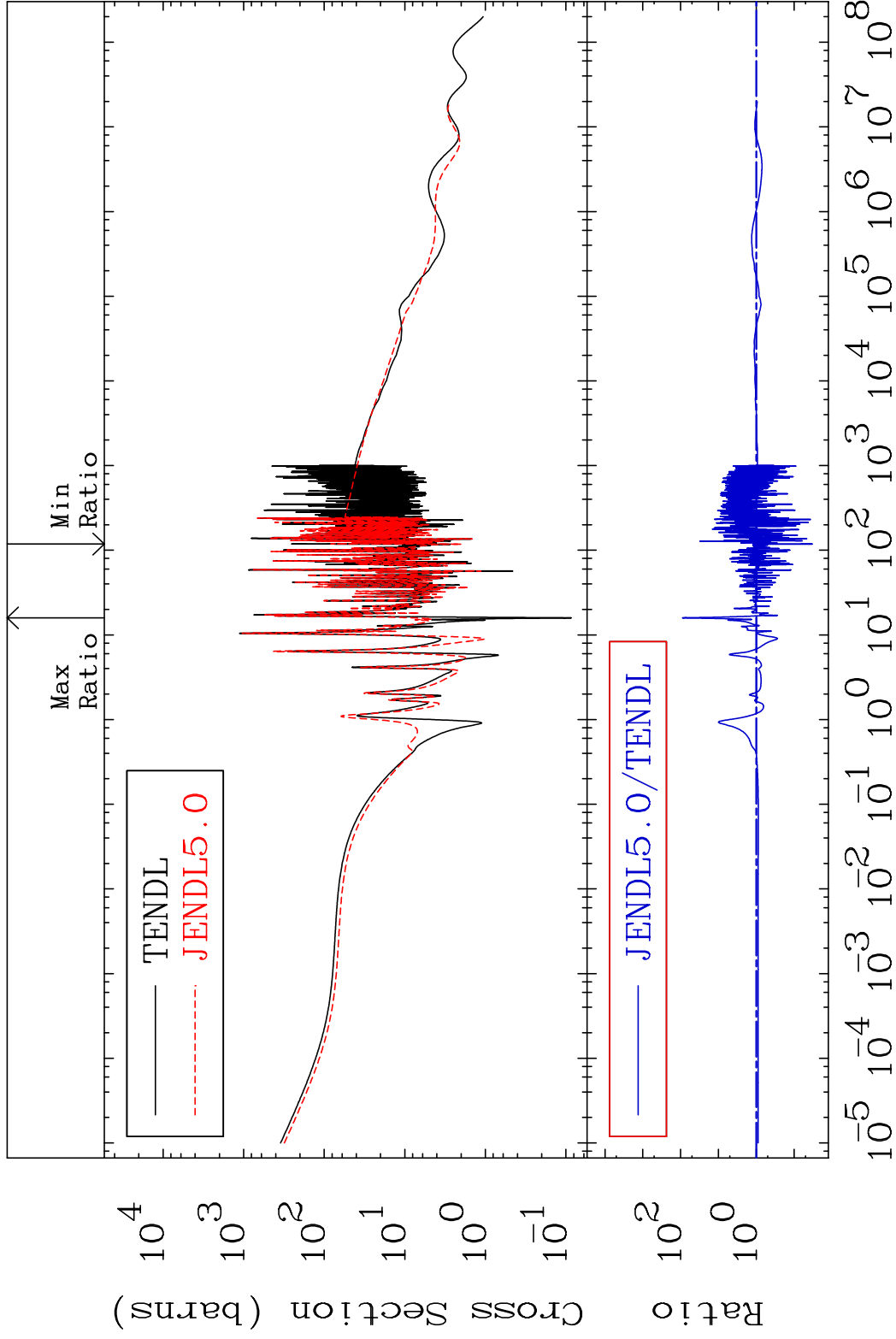
1 62-Sm-151

MAT 6246

Elastic

62-Sm-151

Cross Section -96.74 To 8906. %

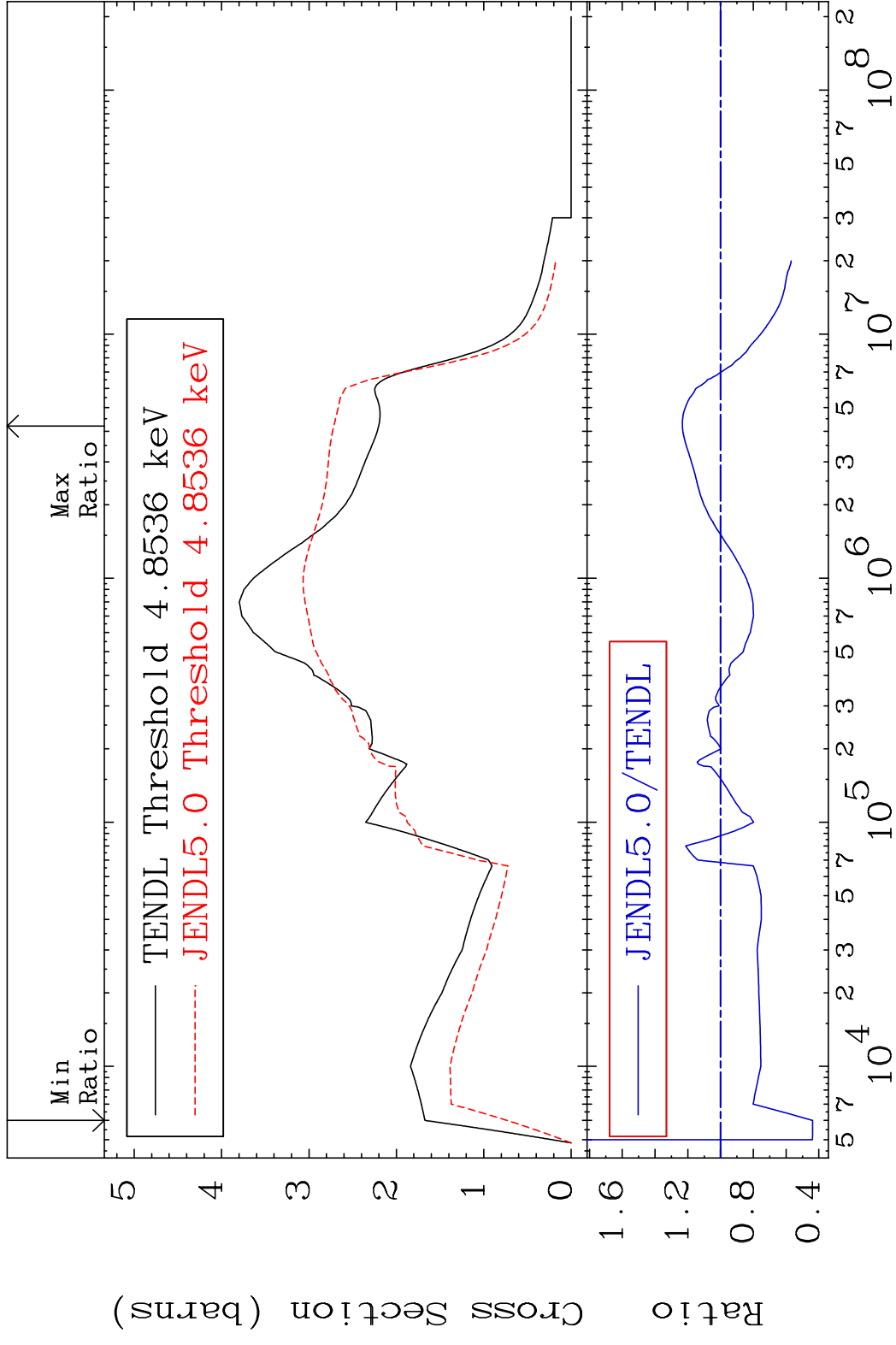


2

Incident Energy (eV)

62-Sm-151

MAT 6246 Inelastic 62-Sm-151
 Cross Section -56.15 To 23.32 %

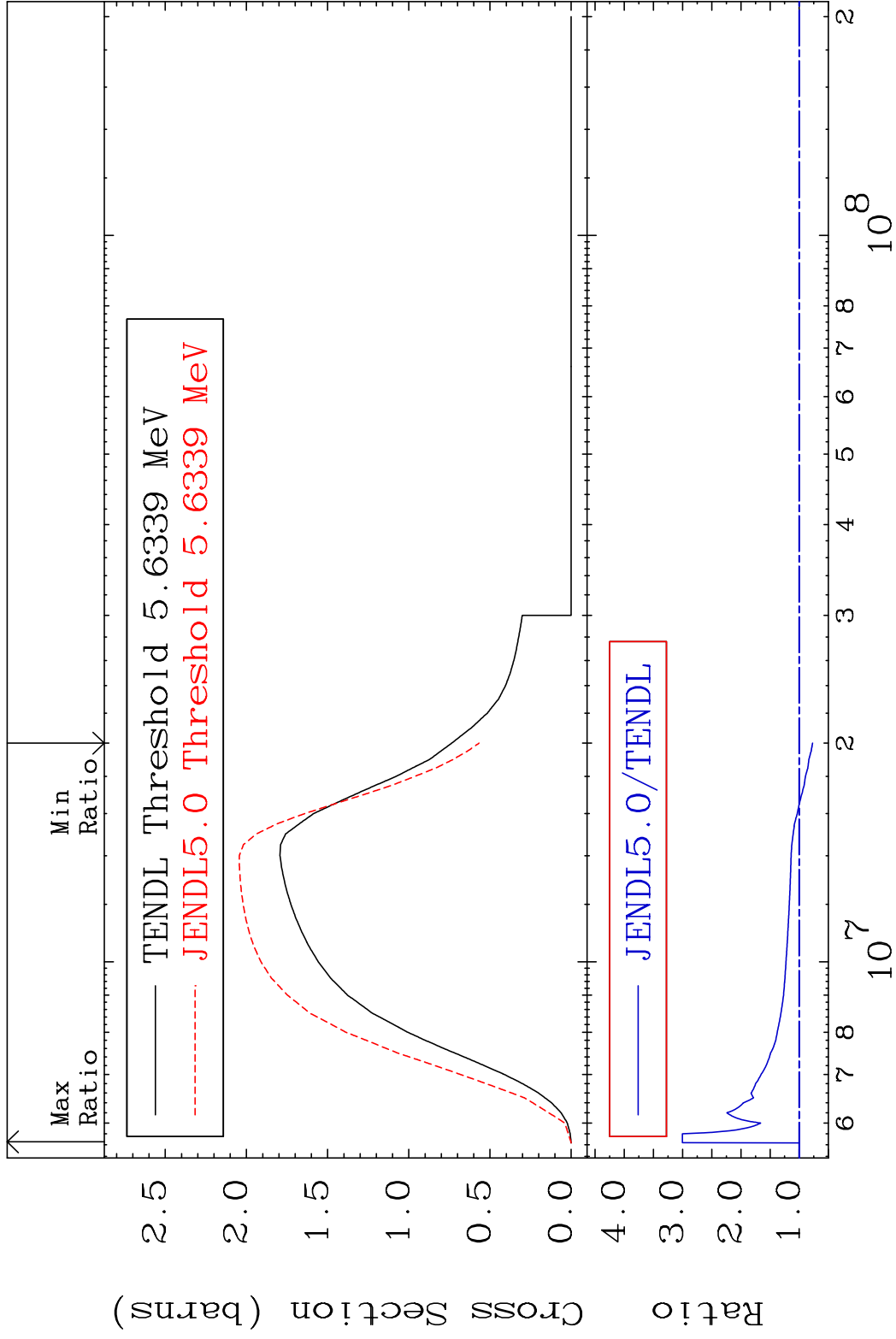


MAT 6246

(n,2n)

62-Sm-151

Cross Section -22.82 To 200.4 %

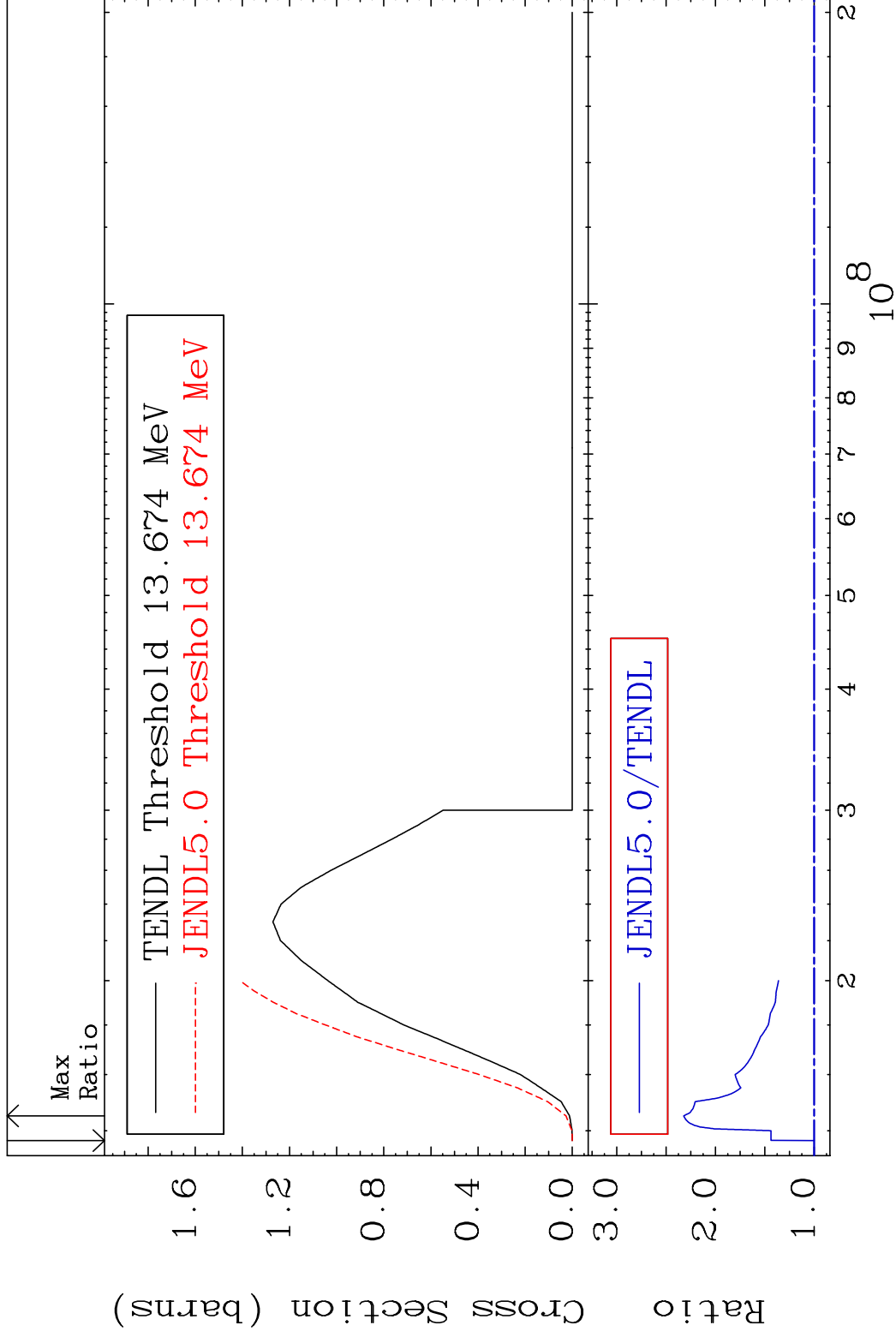


MAT 6246

(n,3n)

62-Sm-151

Cross Section 0.000 To 132.1 %



5

Incident Energy (eV)

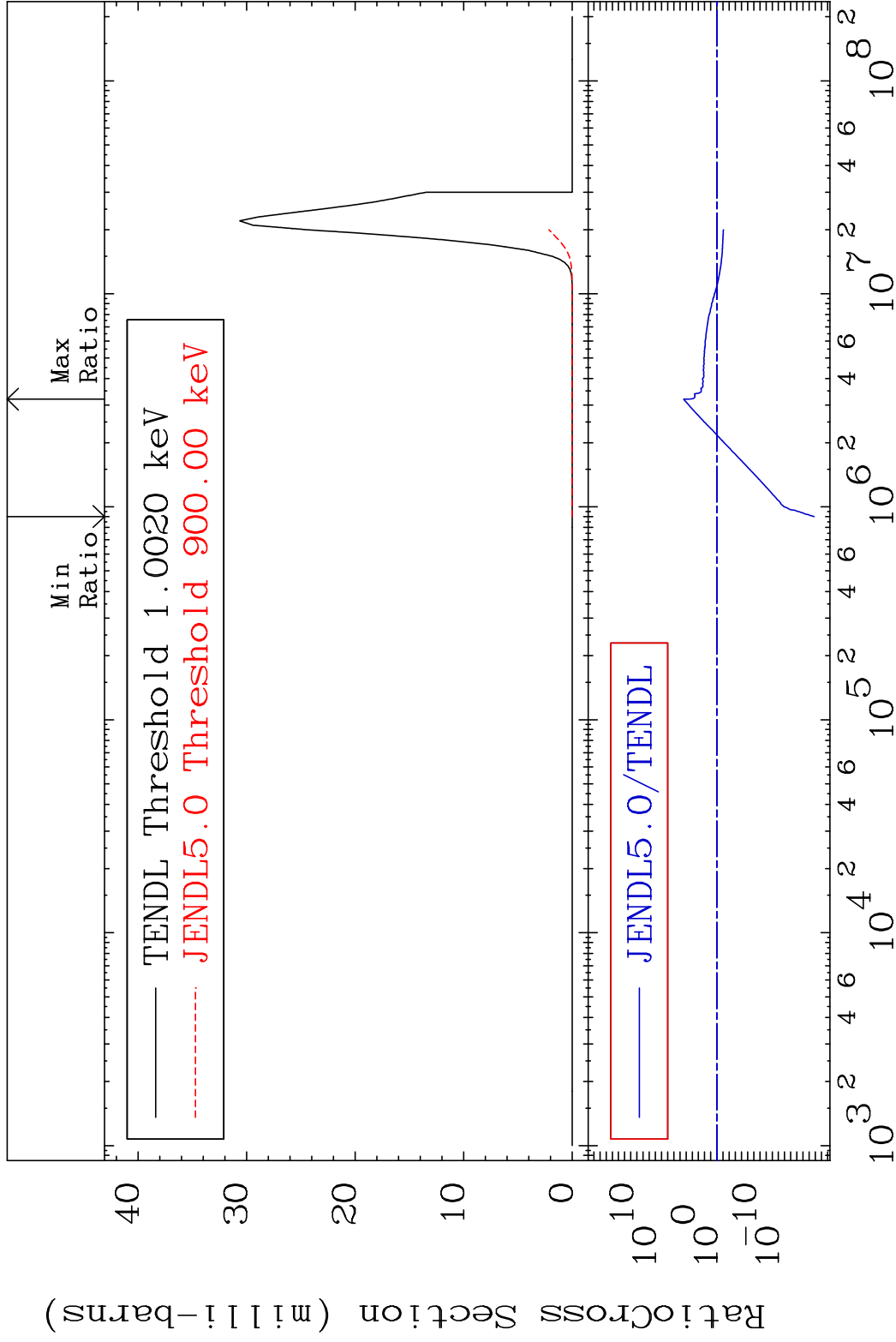
62-Sm-151

MAT 6246

(n, n') α

62-Sm-151

Cross Section -100.0 To 9999. %



6

Incident Energy (eV)

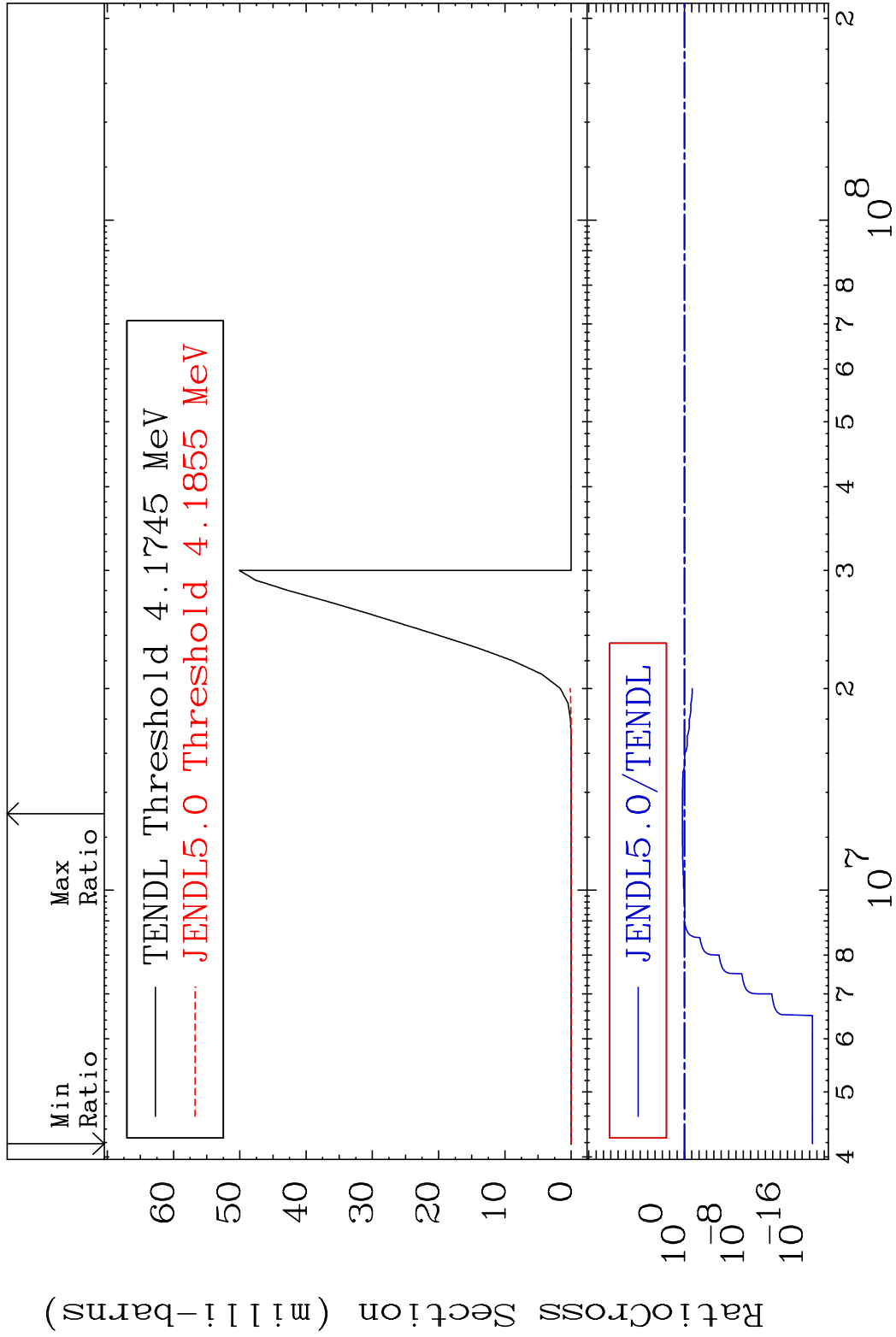
62-Sm-151

MAT 6246

(n,2n) α

62-Sm-151

Cross Section -100.0 To 91.33 %

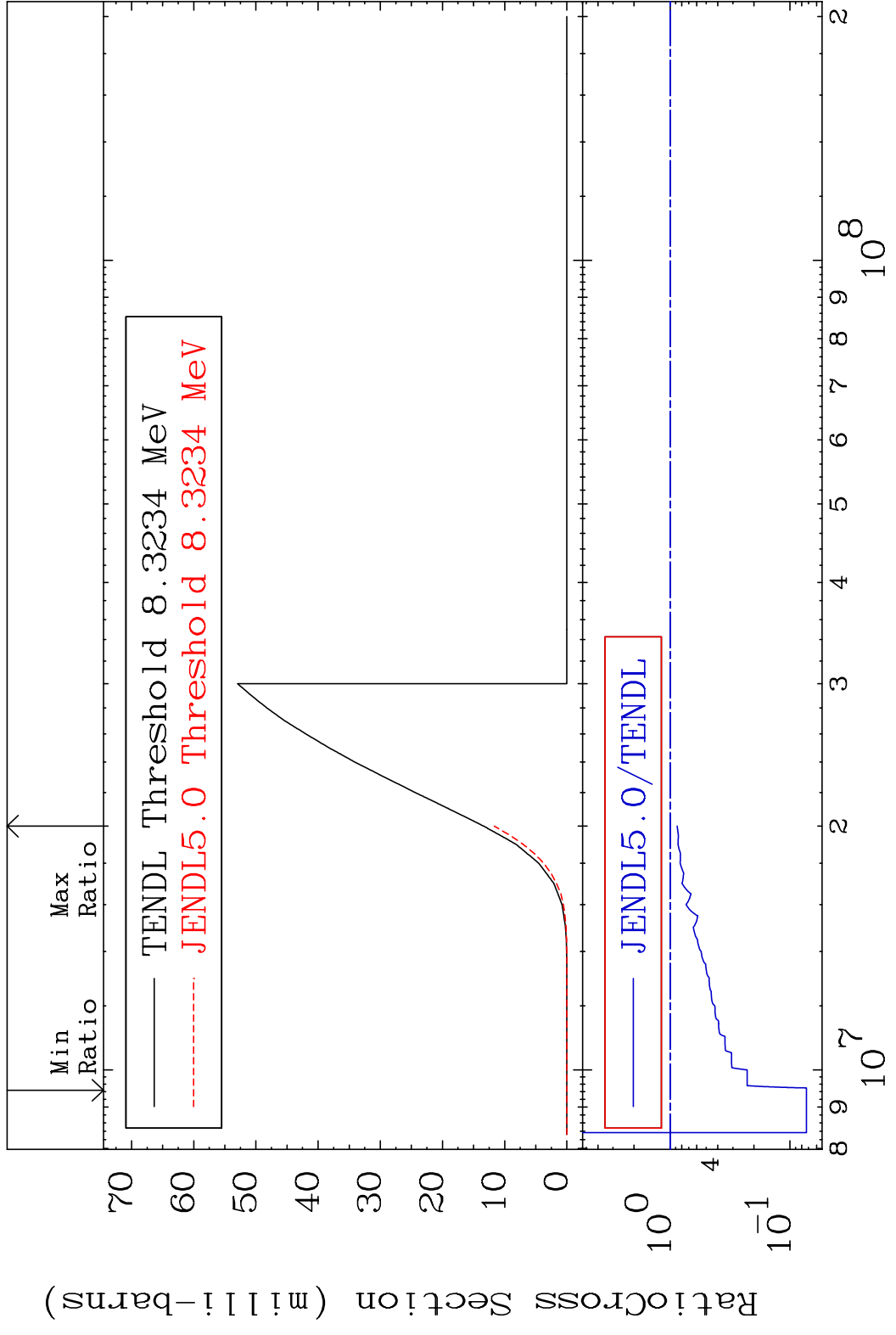


7

Incident Energy (eV)

62-Sm-151

MAT 6246 (n, n') p 62-Sm-151
 Cross Section -92.70 To -12.72%



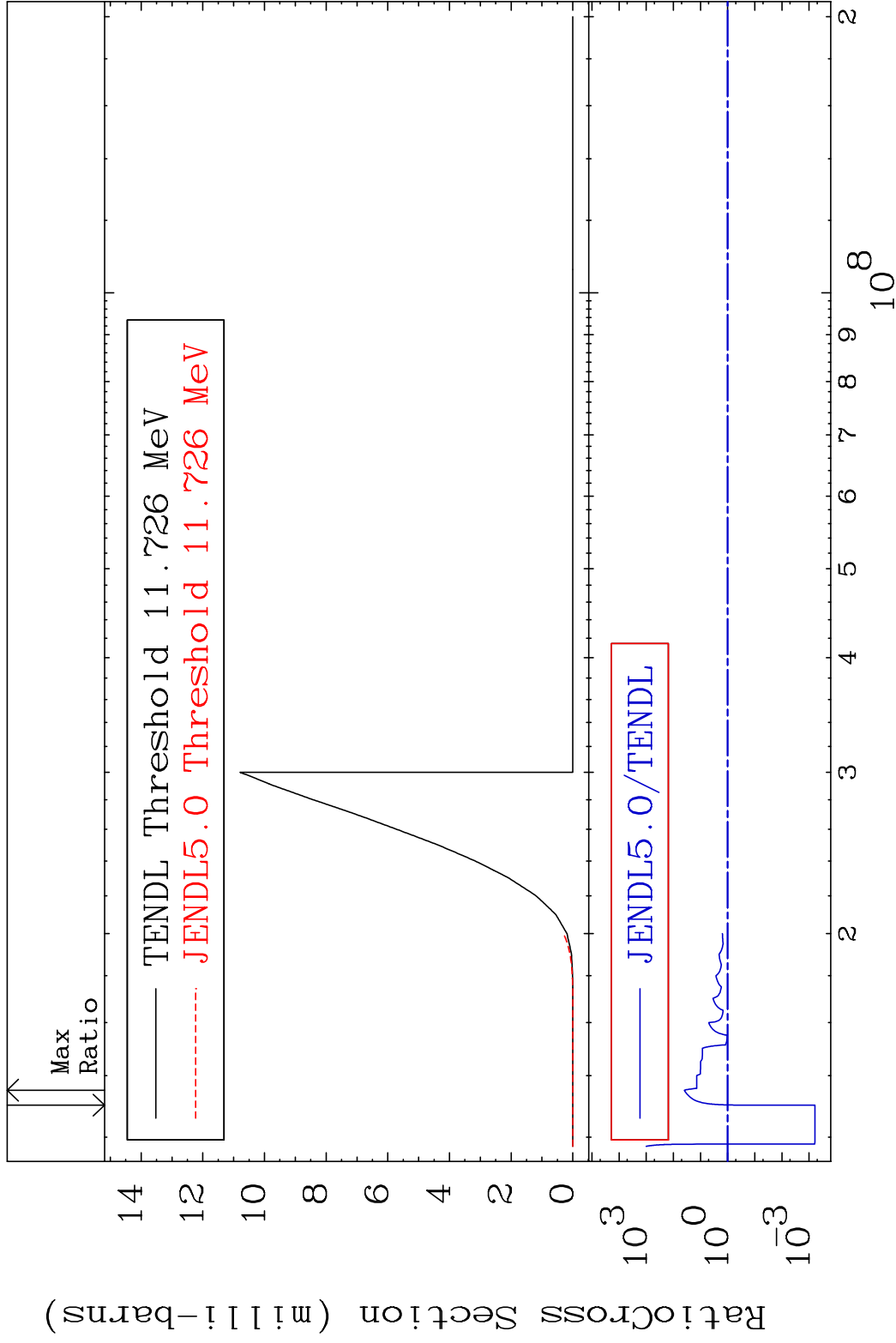
8 8 9 7 6 5 4 3 2 1 0 10⁷ 10⁸ 62-Sm-151

MAT 6246

(n, n') d

62-Sm-151

Cross Section -99.94 To 3853. %

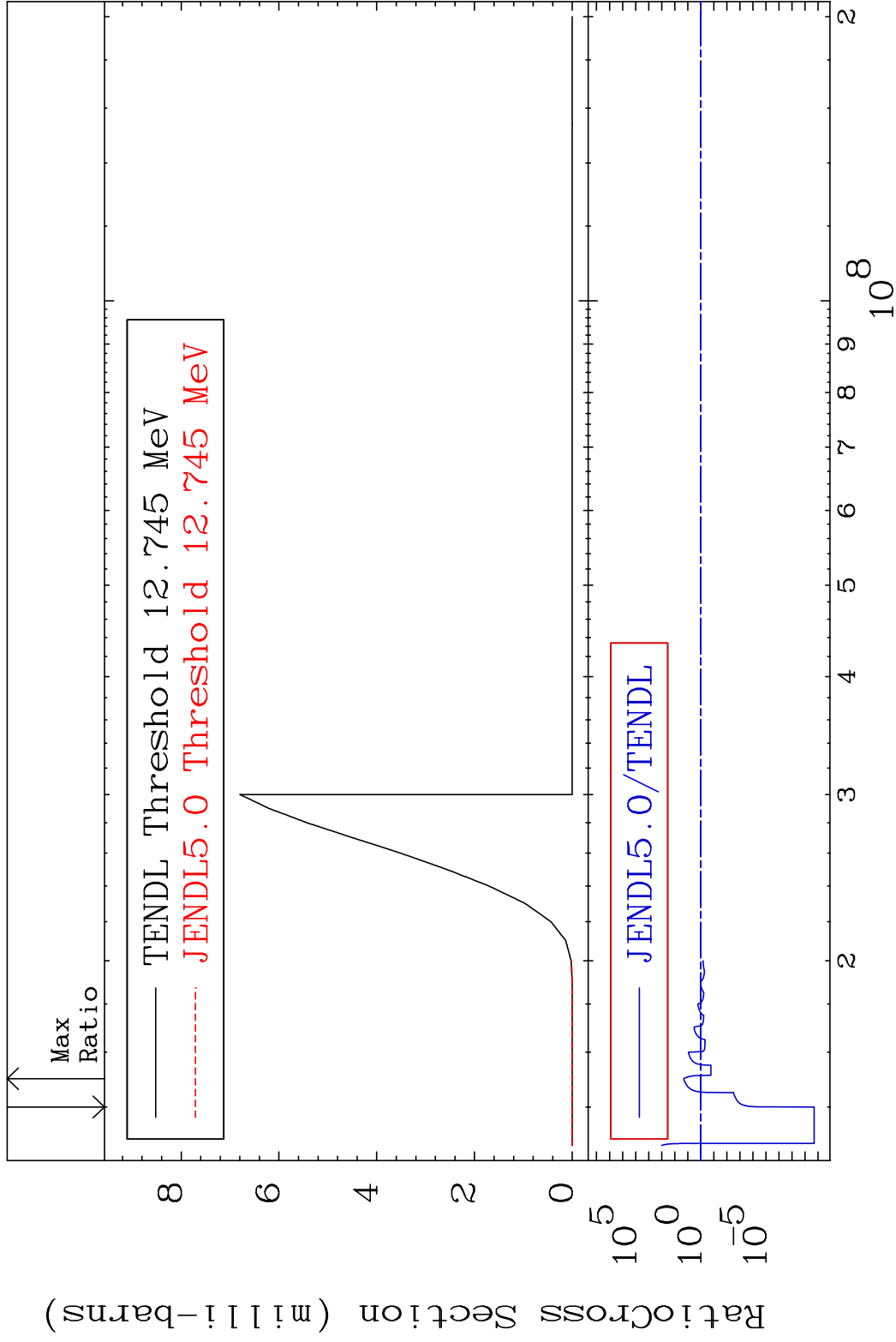


MAT 6246

(n, n') t

62-Sm-151

Cross Section -100.0 To 1969. %



10

Incident Energy (eV)

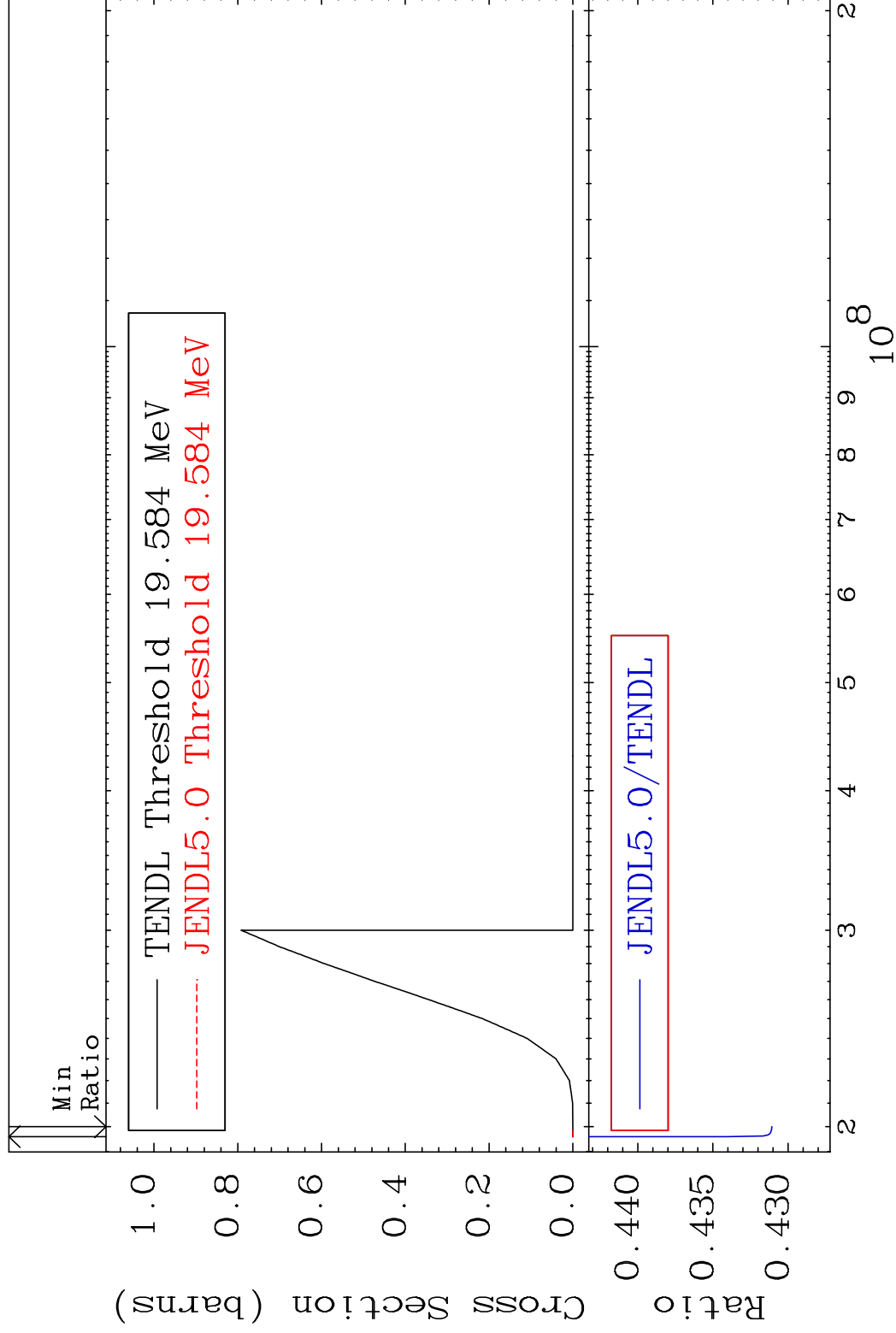
62-Sm-151

MAT 6246

(n,4n)

62-Sm-151

Cross Section -56.89 To -56.59%

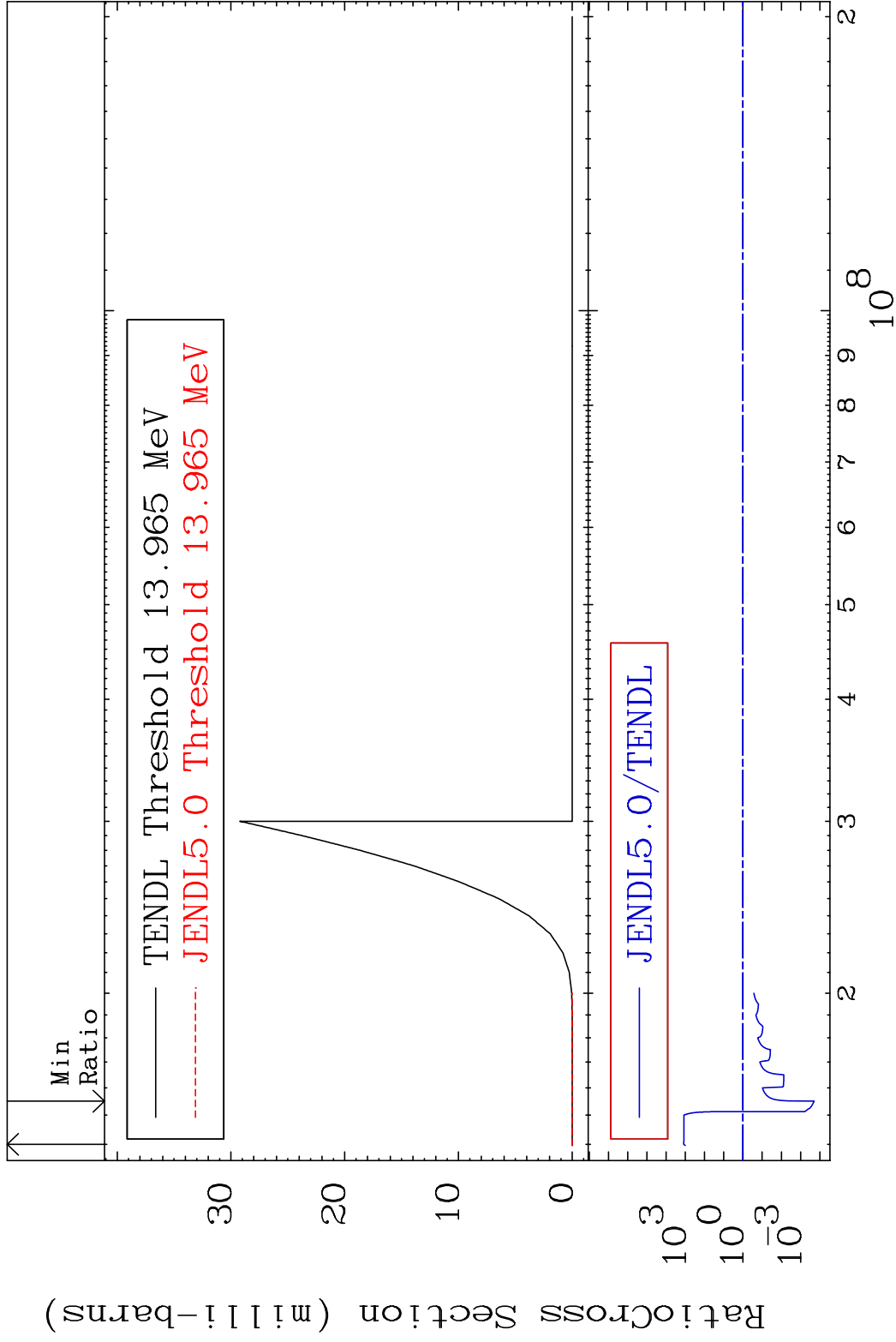


MAT 6246

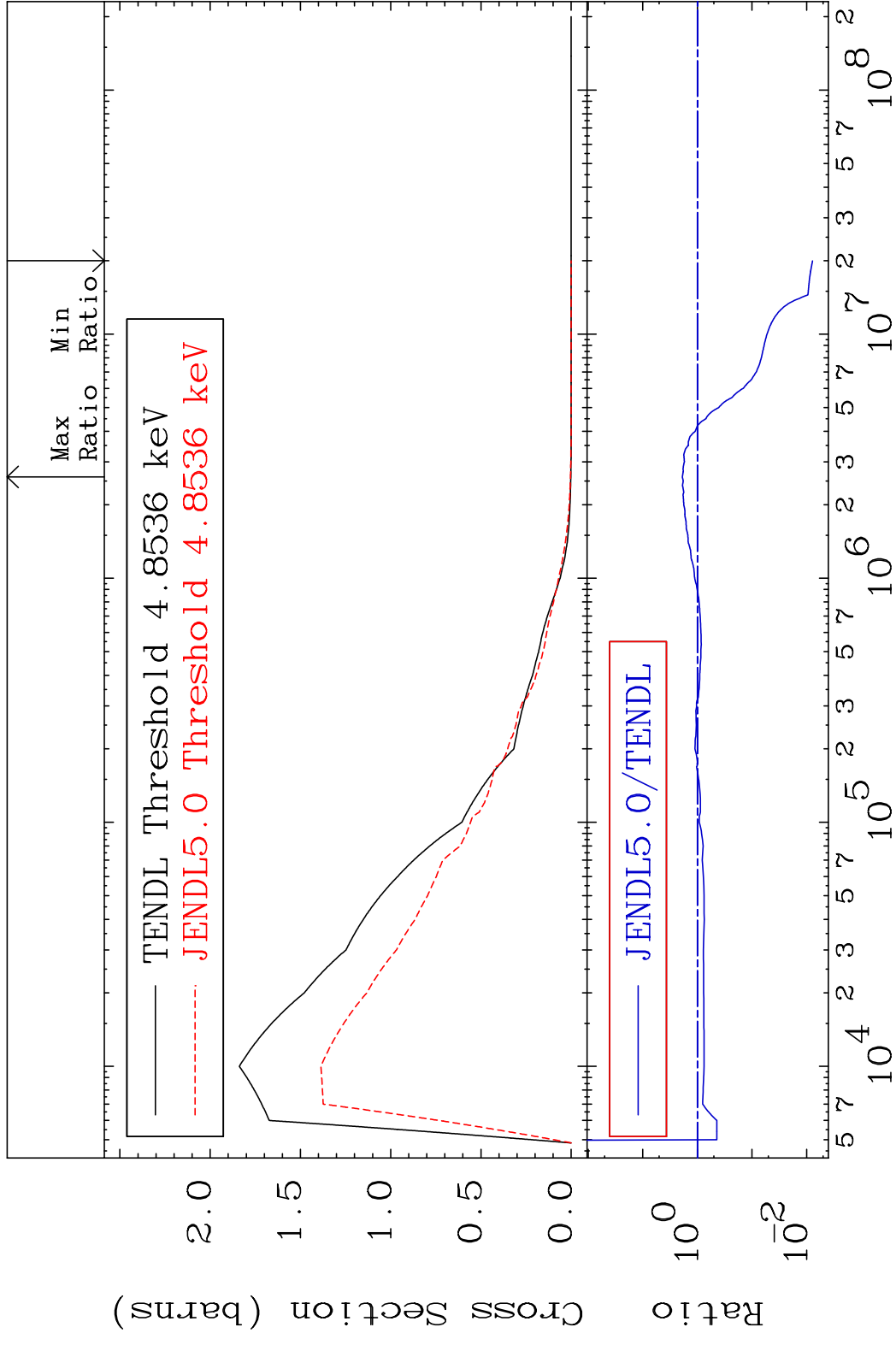
(n,2n) p

62-Sm-151

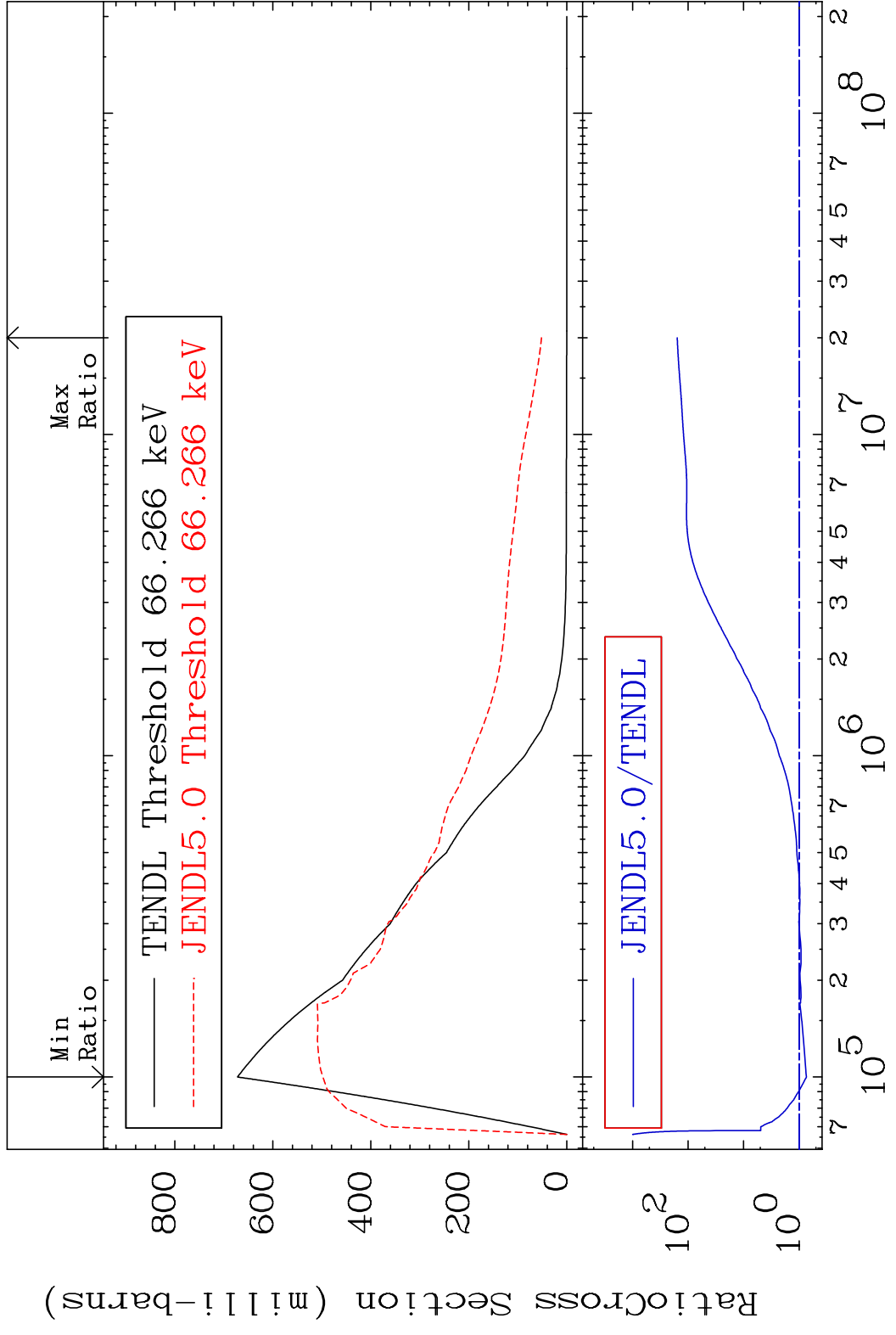
Cross Section -99.98 To 9999. %



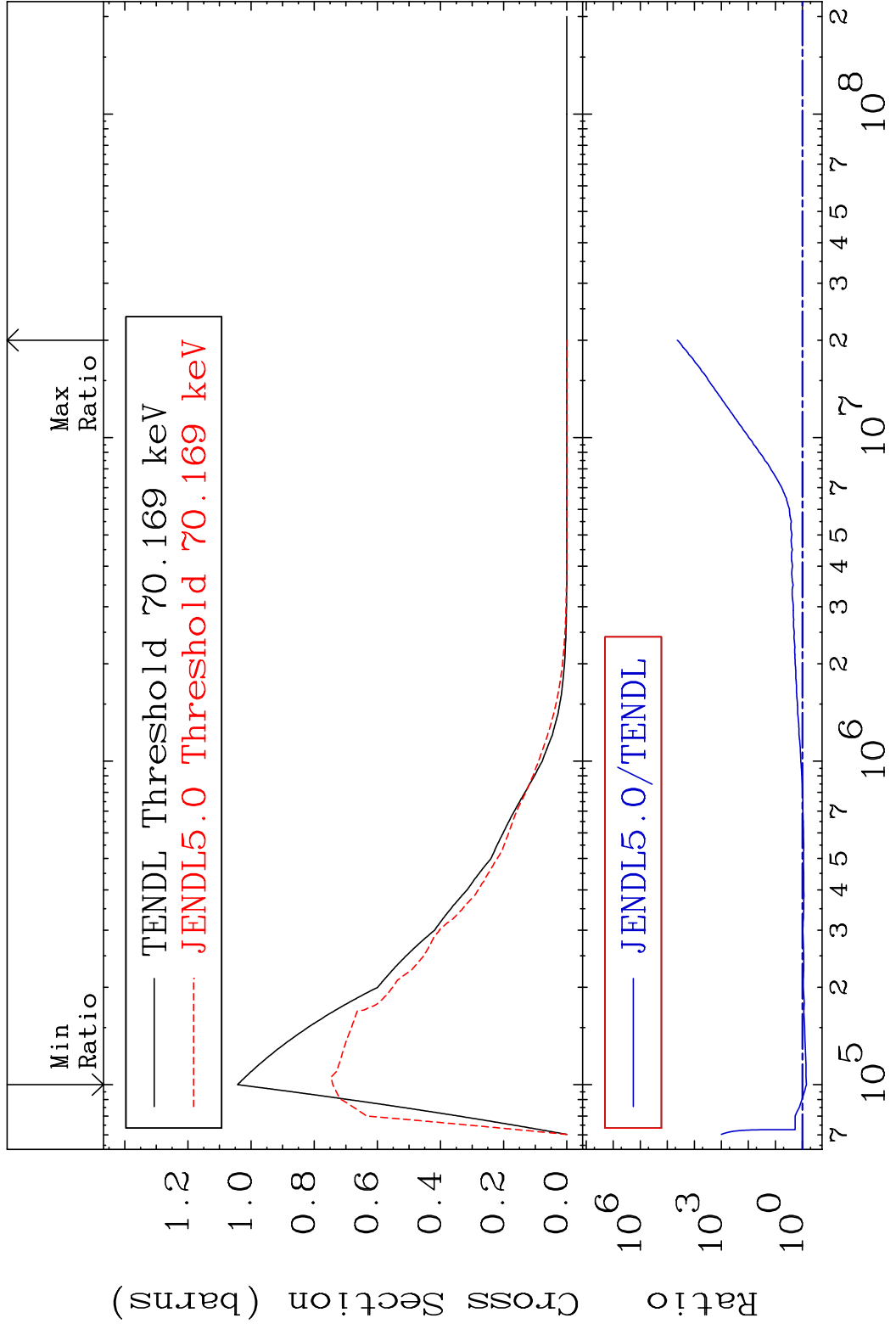
MAT 6246 MT= 51 (n, n') Level 62-Sm-151
 Cross Section -99.22 To 88.49 %



MAT 6246 MT= 52 (n,n') Level 62-Sm-151
 Cross Section -25.93 To 9999. %

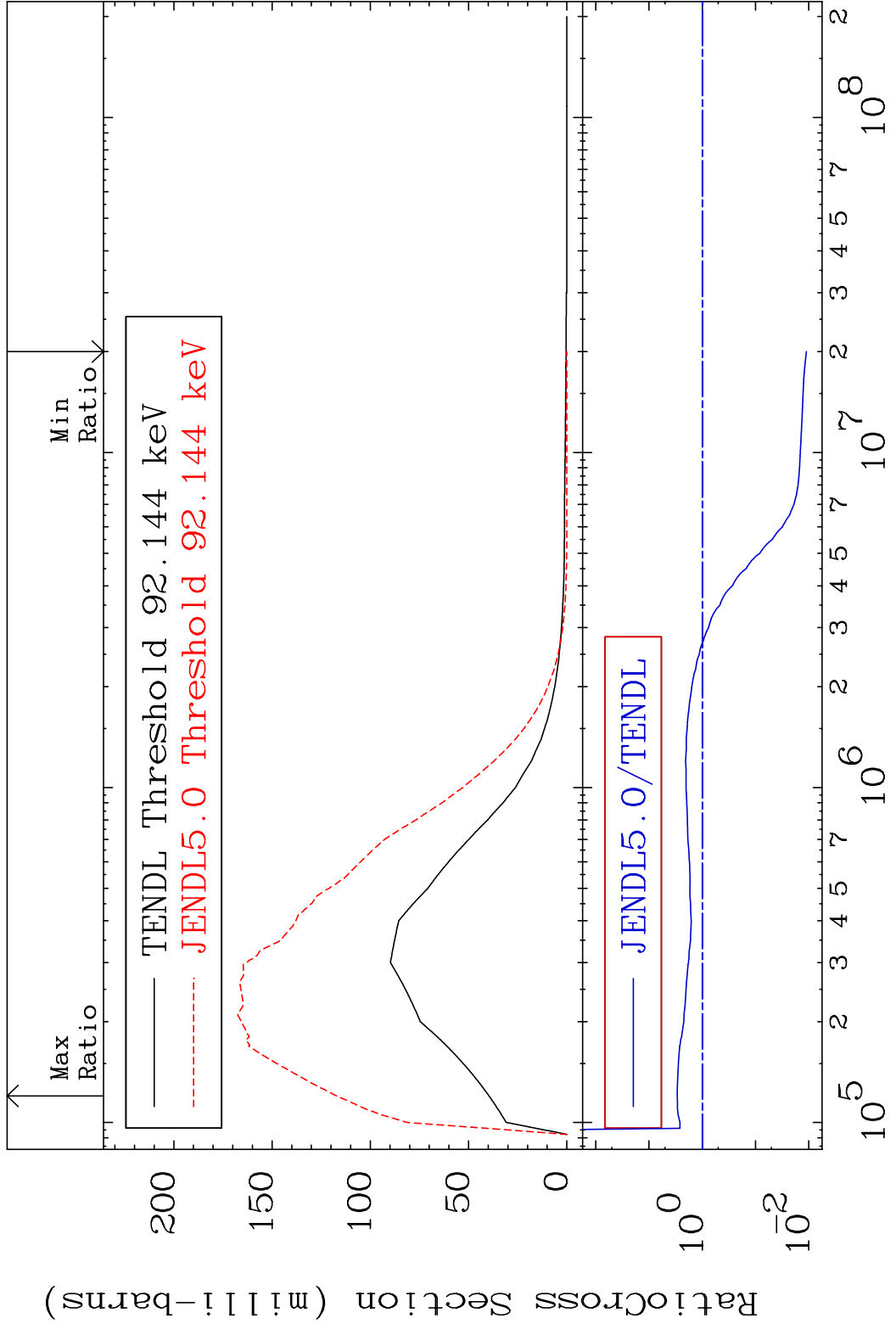


MAT 6246 MT= 53 (n,n') Level 62-Sm-151
 Cross Section -28.94 To 9999. %



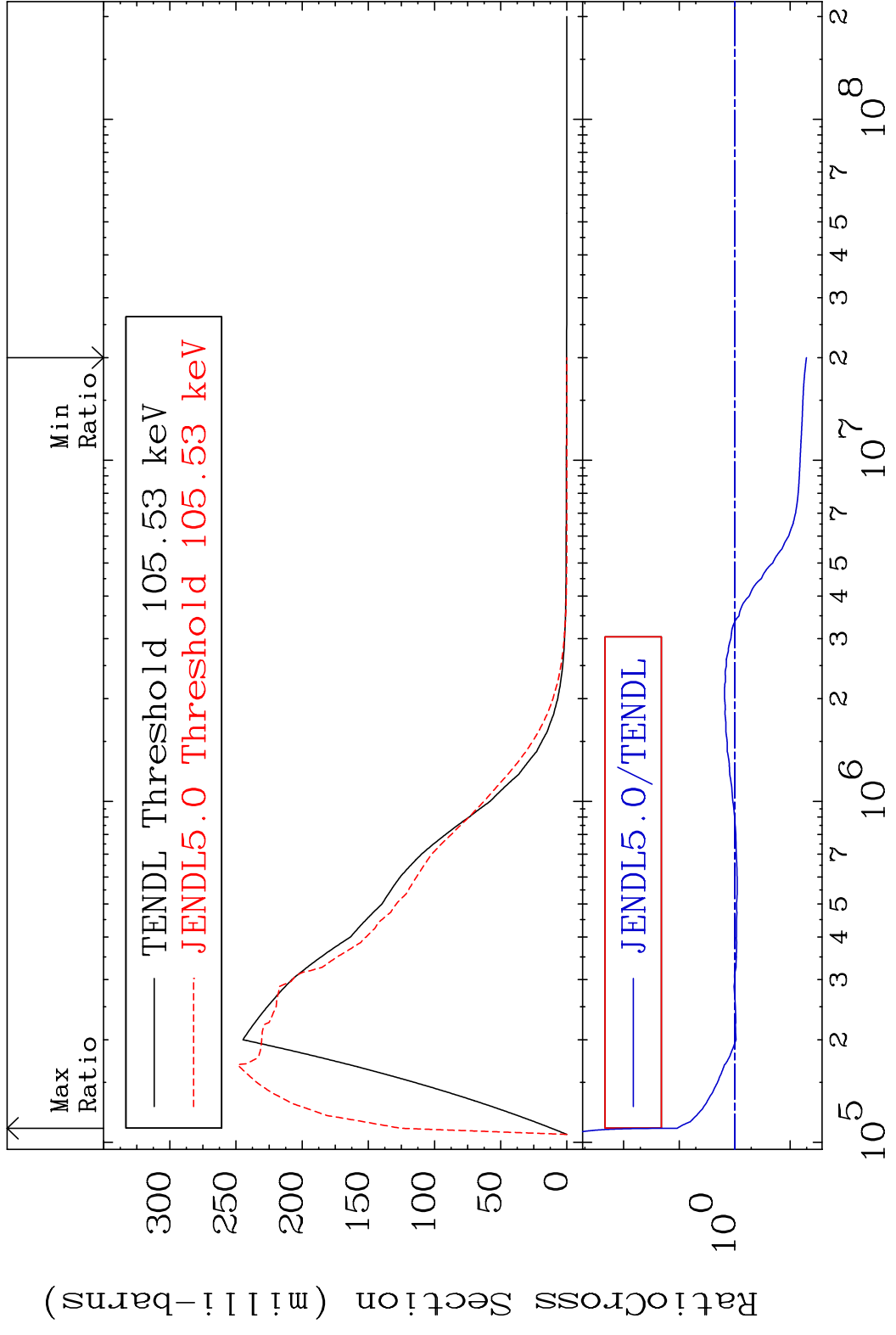
15 Incident Energy (eV) 62-Sm-151

MAT 6246 MT= 54 (n,n') Level 62-Sm-151
 Cross Section -98.90 To 195.9 %

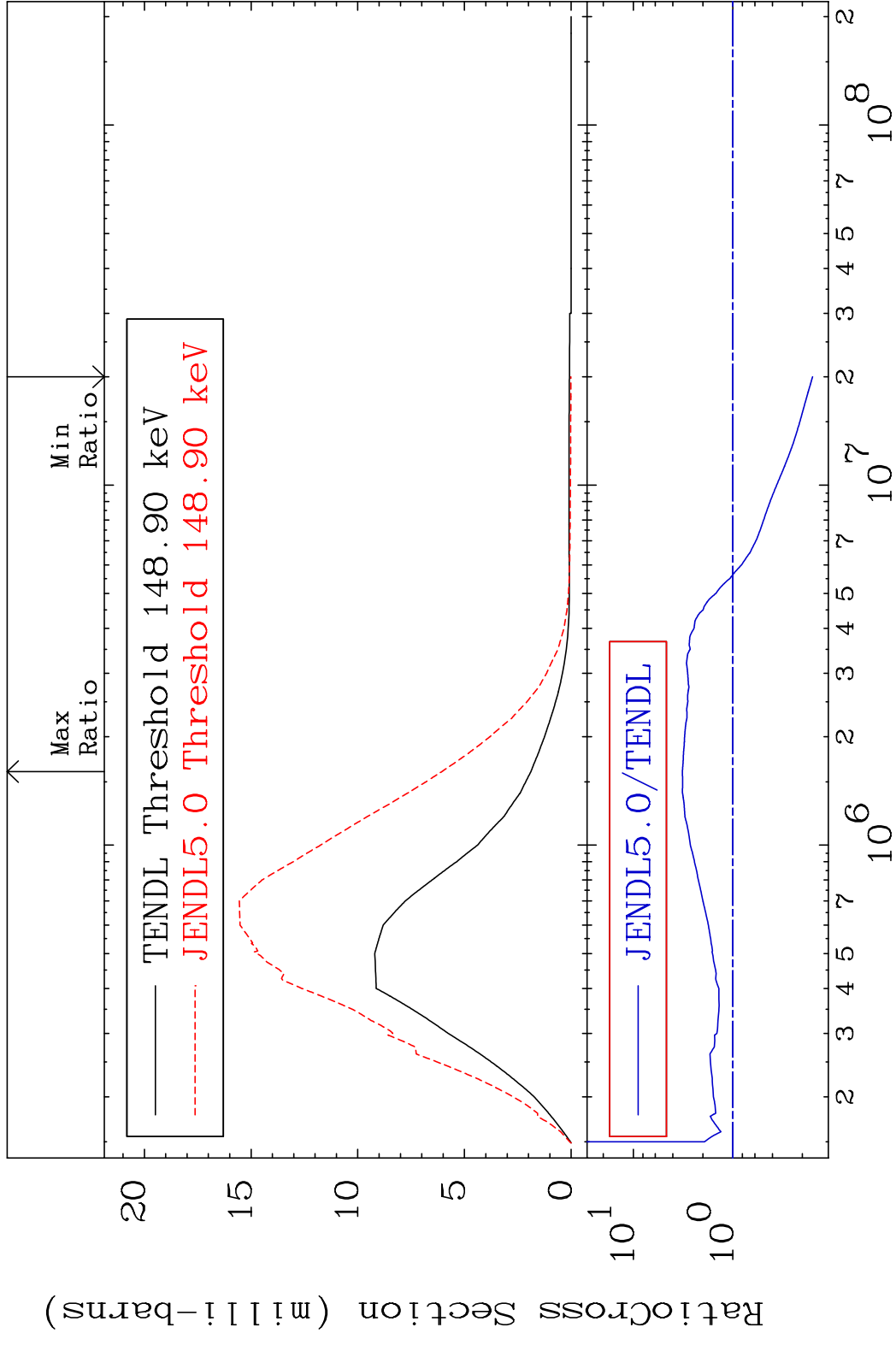


16 Incident Energy (eV) 62-Sm-151

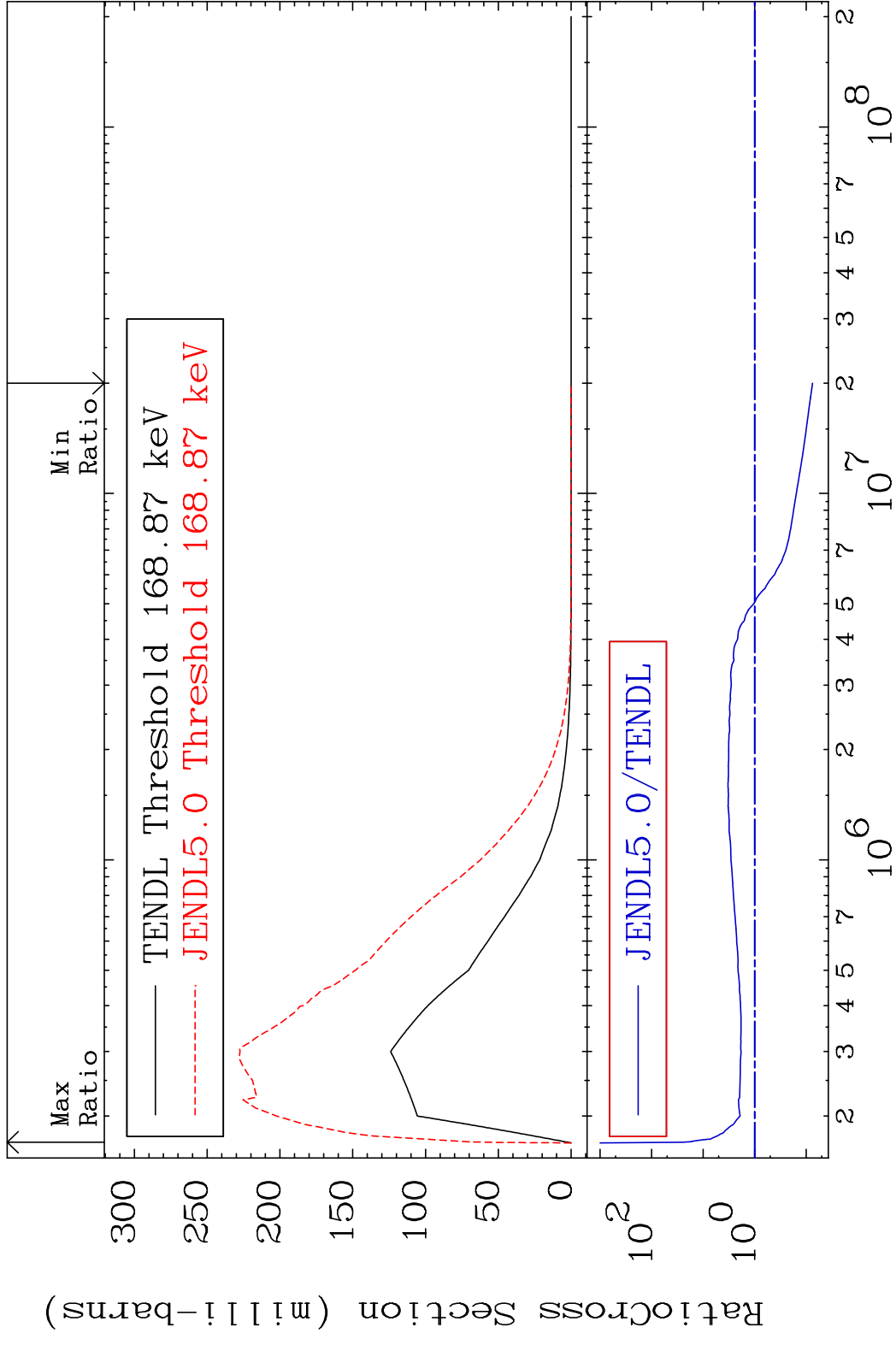
MAT 6246 MT= 55 (n, n') Level 62-Sm-151
 Cross Section -94.92 To 984.7 %



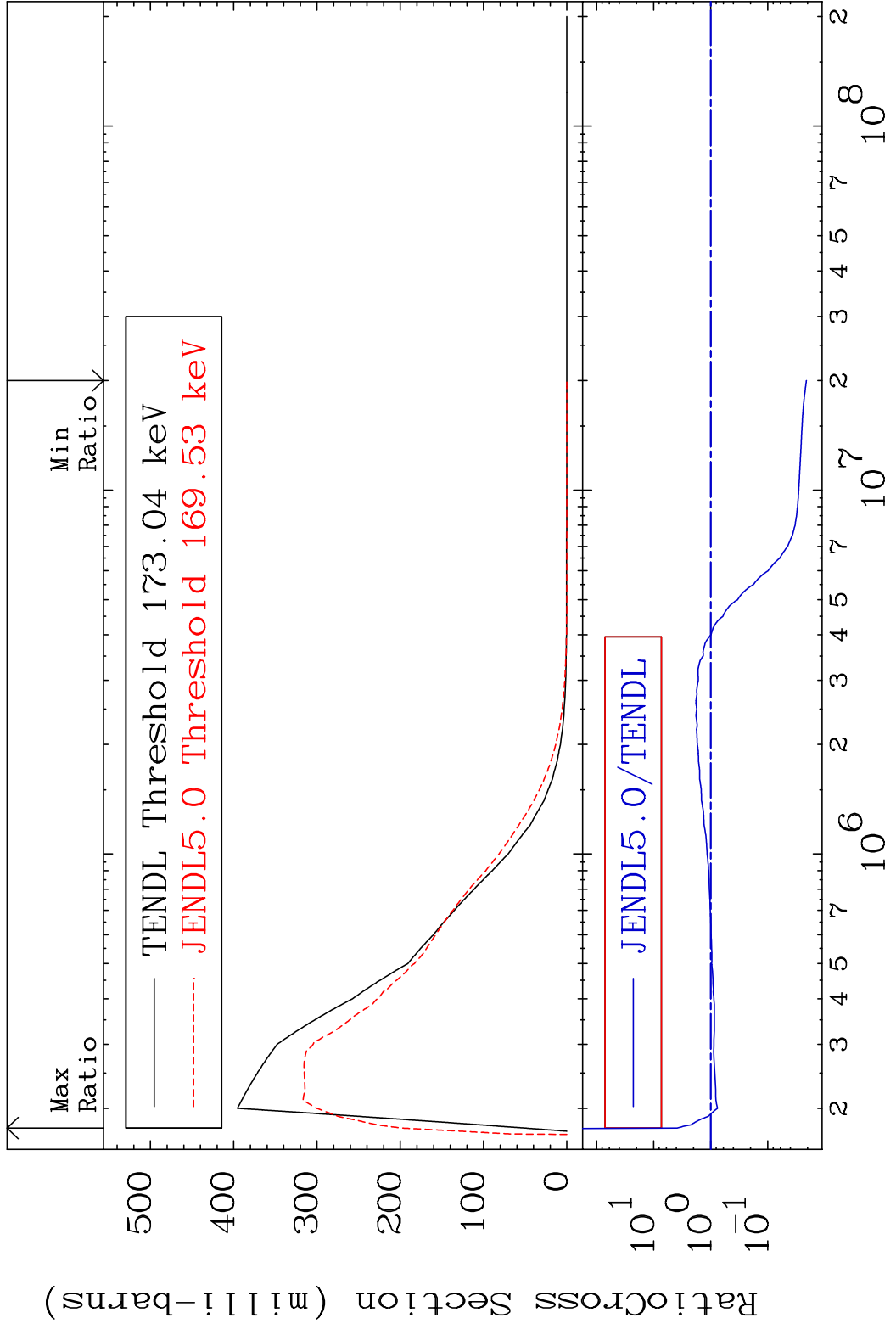
MAT 6246 MT= 56 (n,n') Level 62-Sm-151
 Cross Section -84.19 To 221.3 %



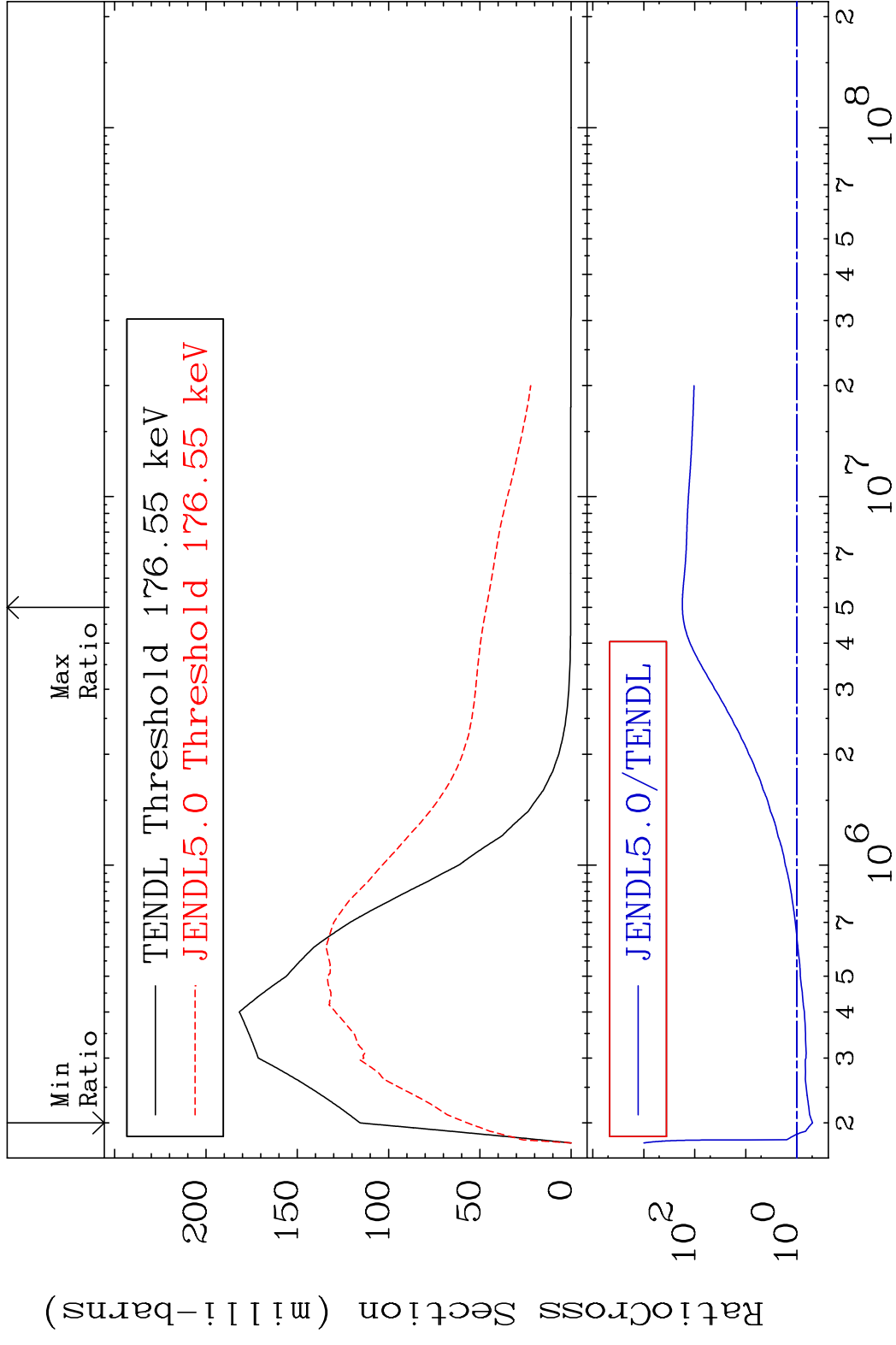
MAT 6246 MT= 57 (n,n') Level 62-Sm-151
 Cross Section -92.50 To 2428. %



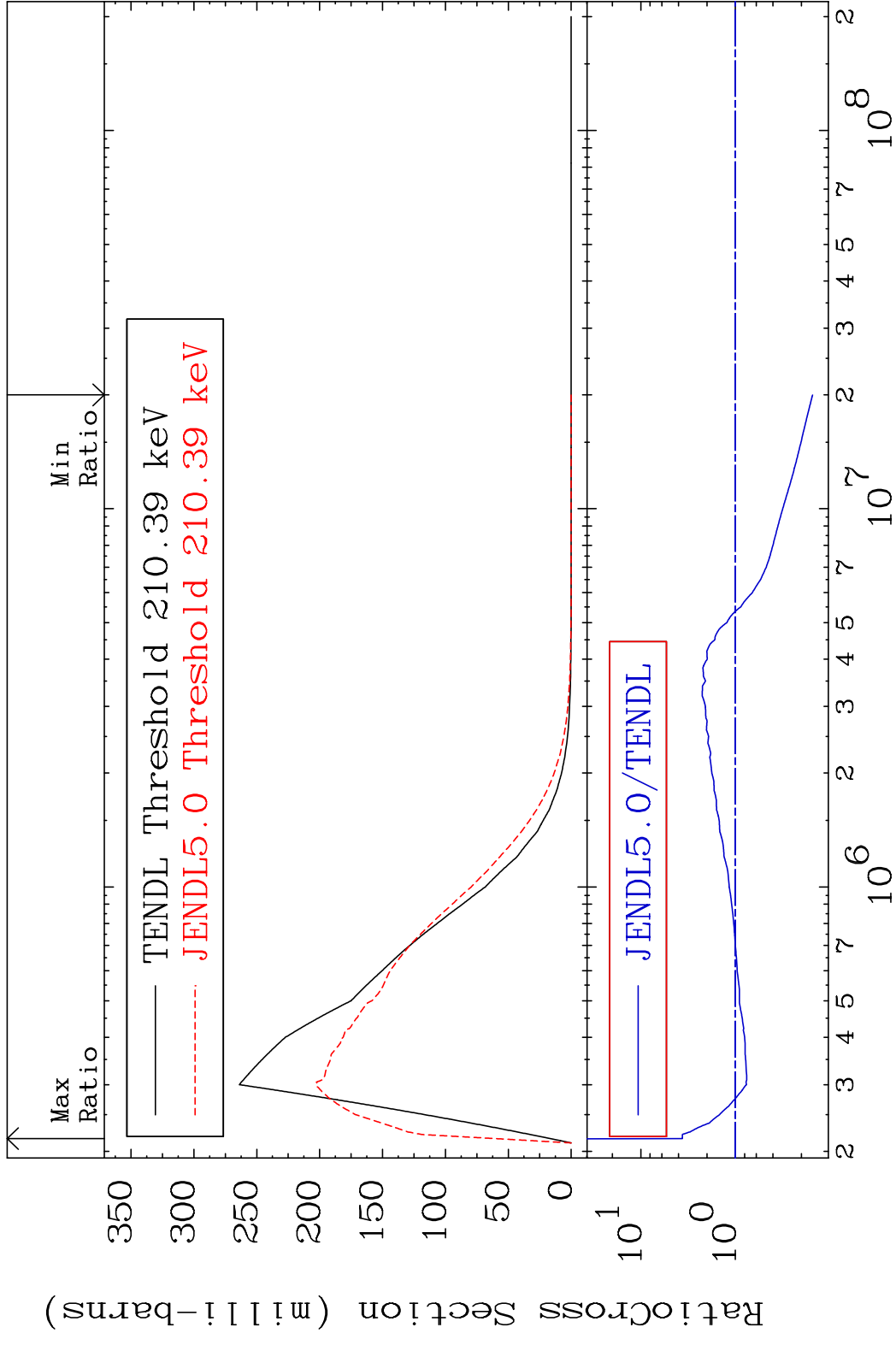
MAT 6246 MT= 58 (n,n') Level 62-Sm-151
 Cross Section -97.90 To 286.6 %



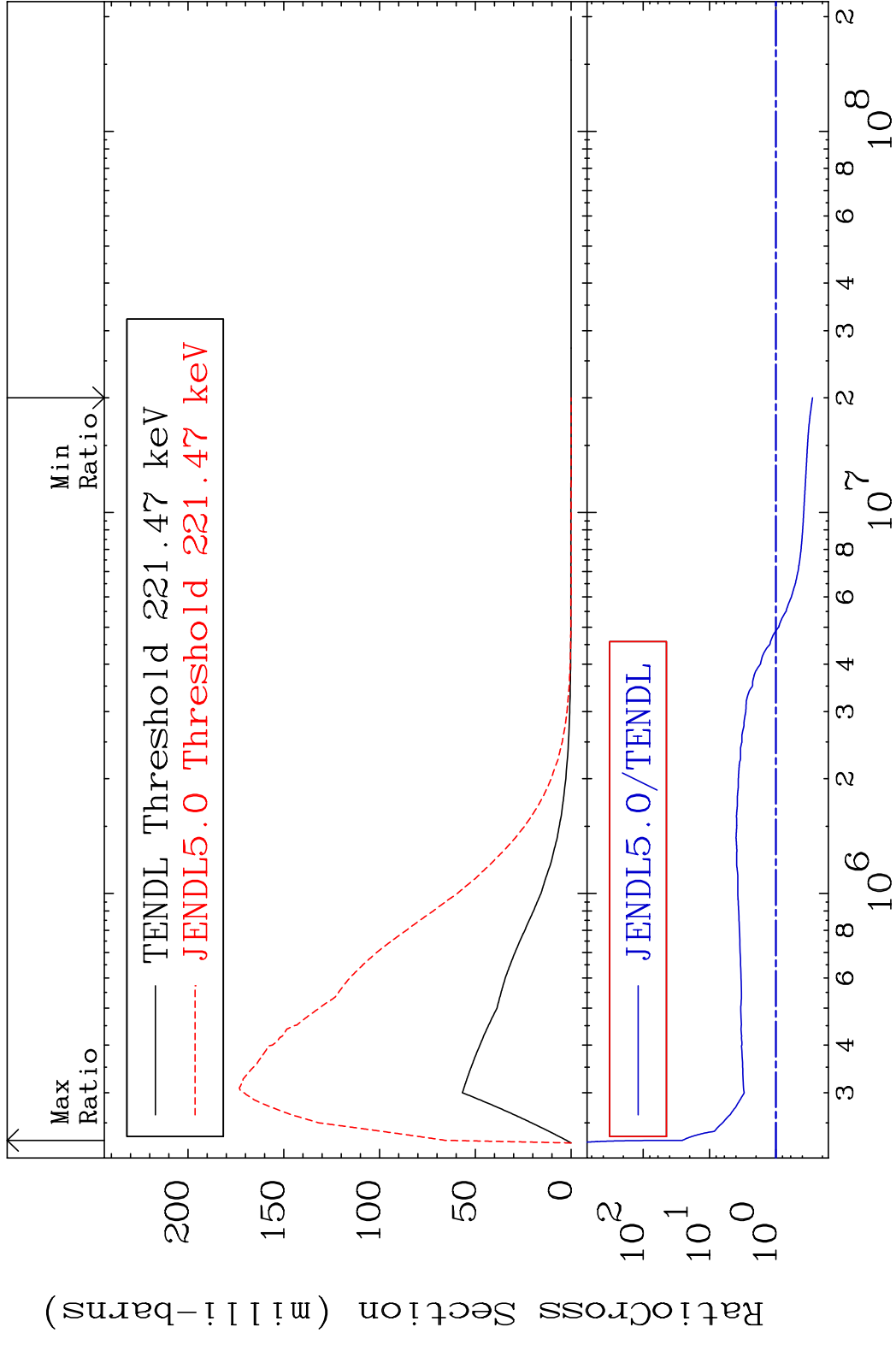
MAT 6246 MT= 59 (n, n') Level 62-Sm-151
 Cross Section -50.86 To 9999. %



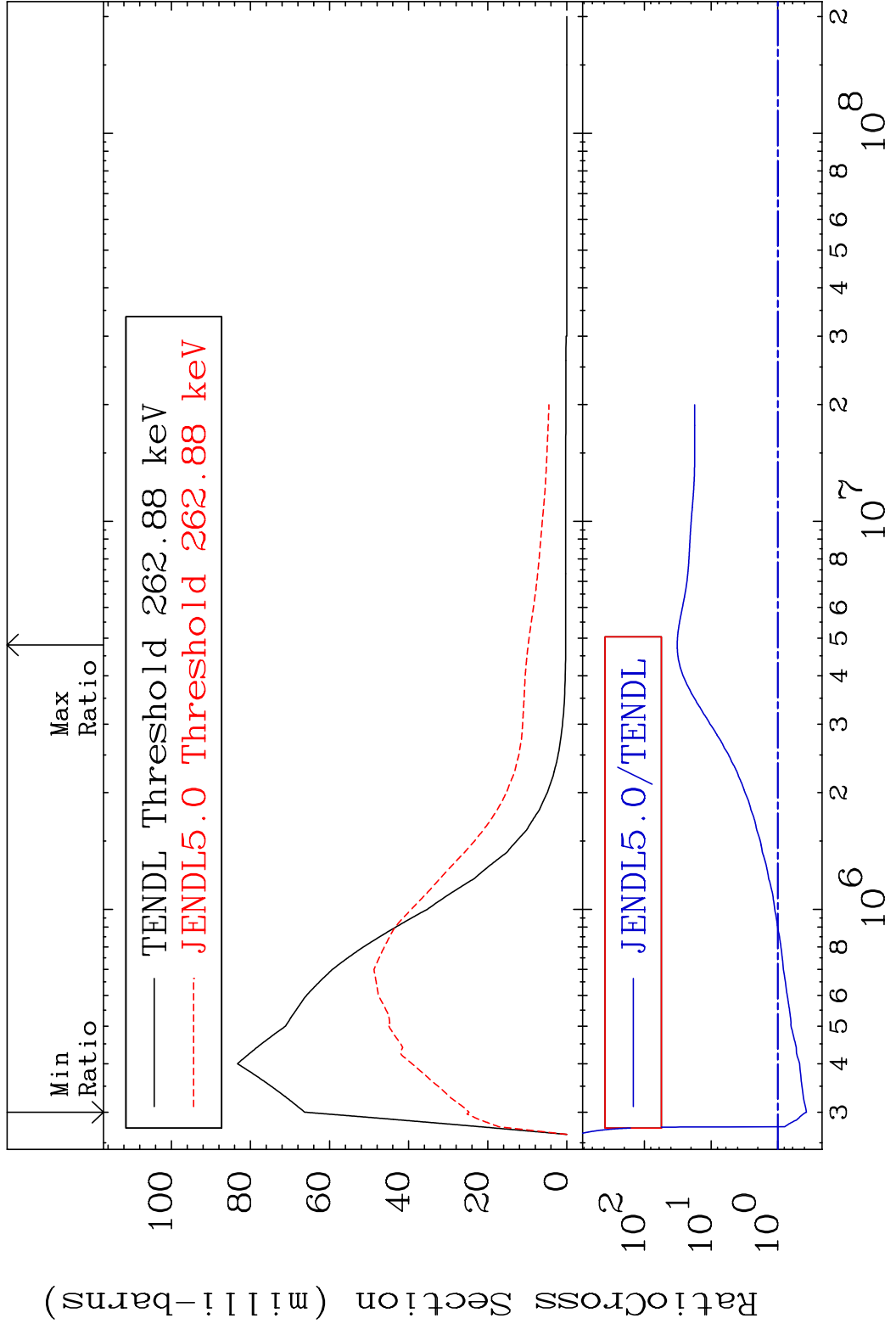
MAT 6246 MT= 60 (n,n') Level 62-Sm-151
 Cross Section -84.75 To 264.2 %



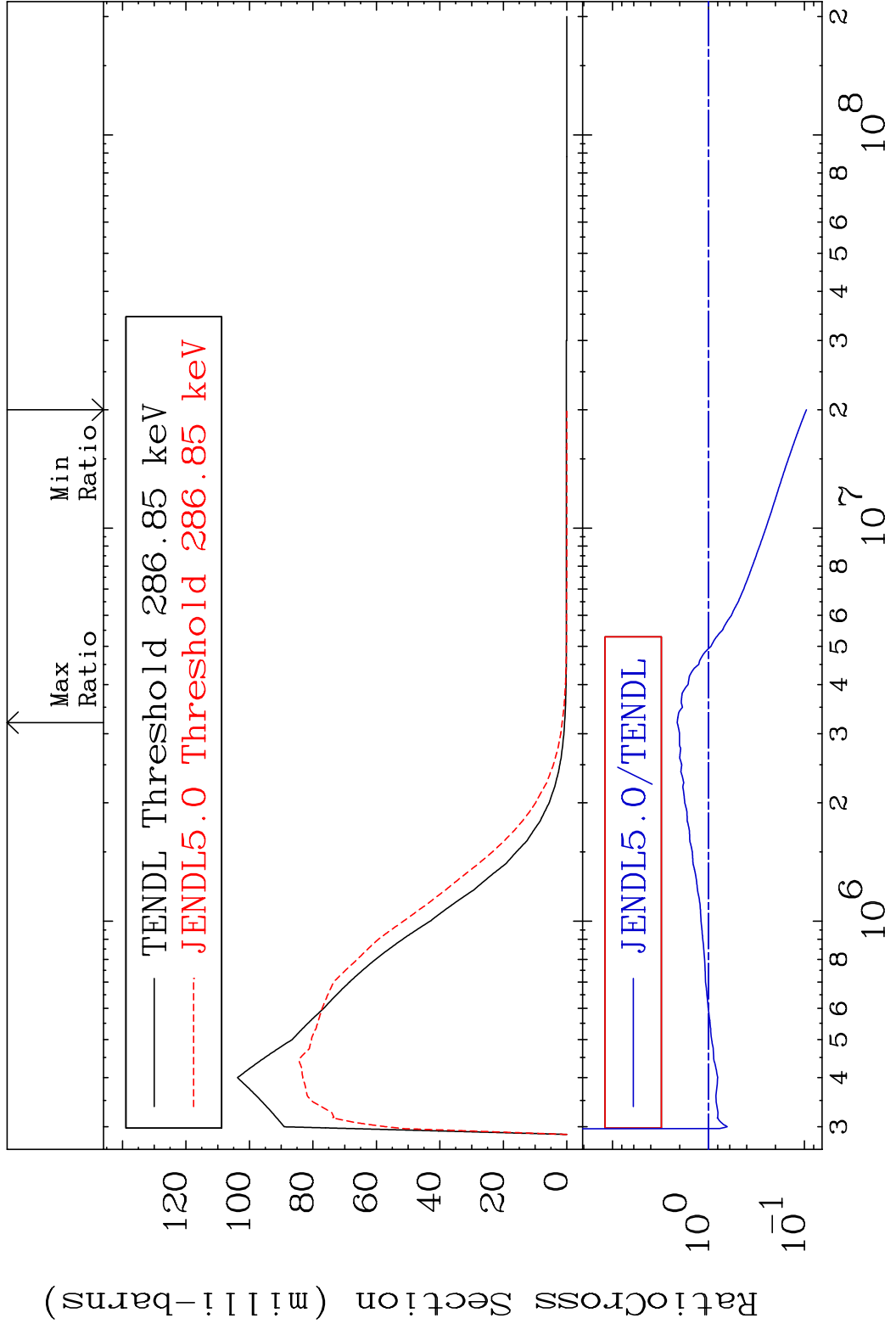
MAT 6246 MT= 61 (n, n') Level 62-Sm-151
 Cross Section -71.88 To 2476. %



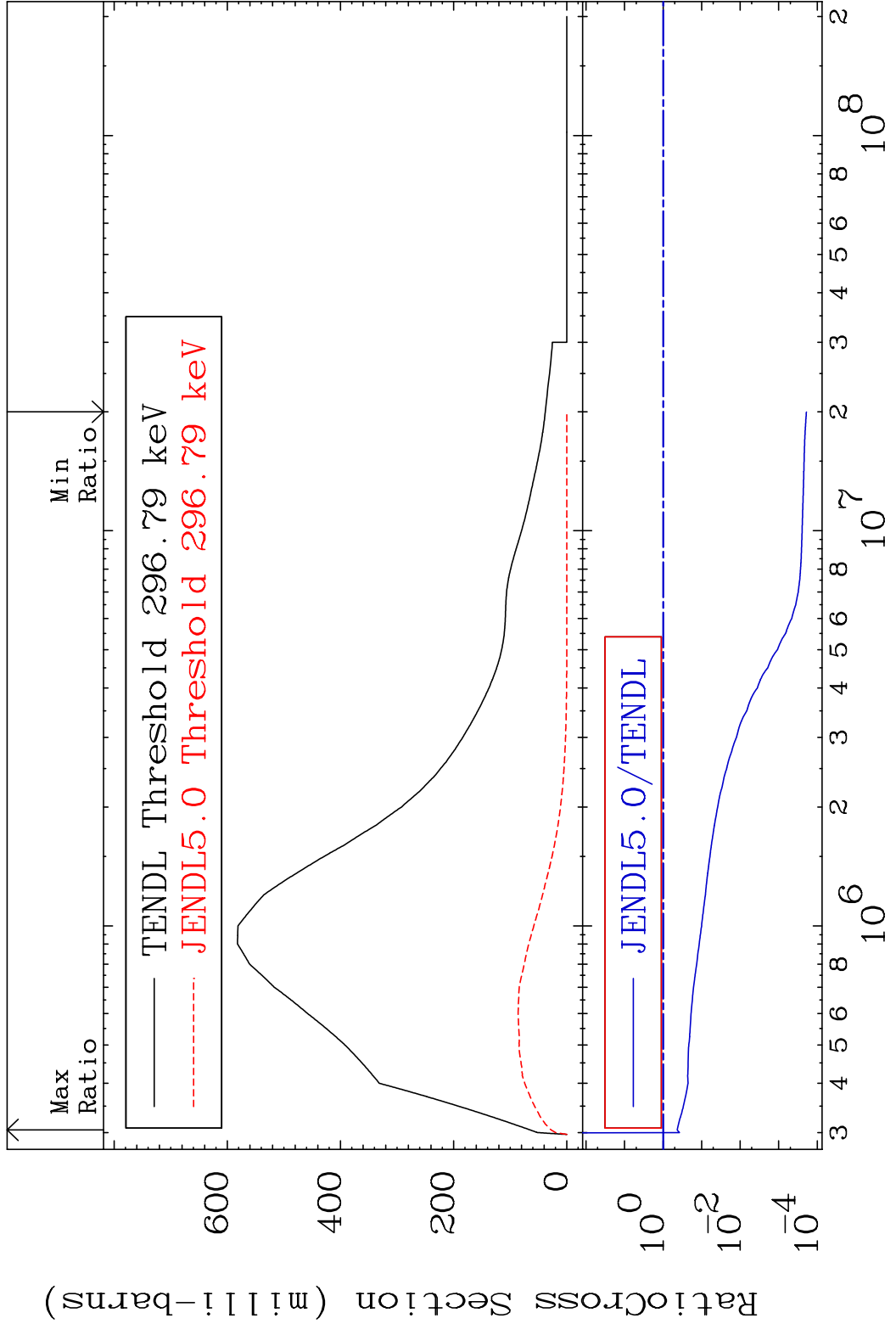
MAT 6246 MT= 62 (n, n') Level 62-Sm-151
 Cross Section -62.69 To 3118. %



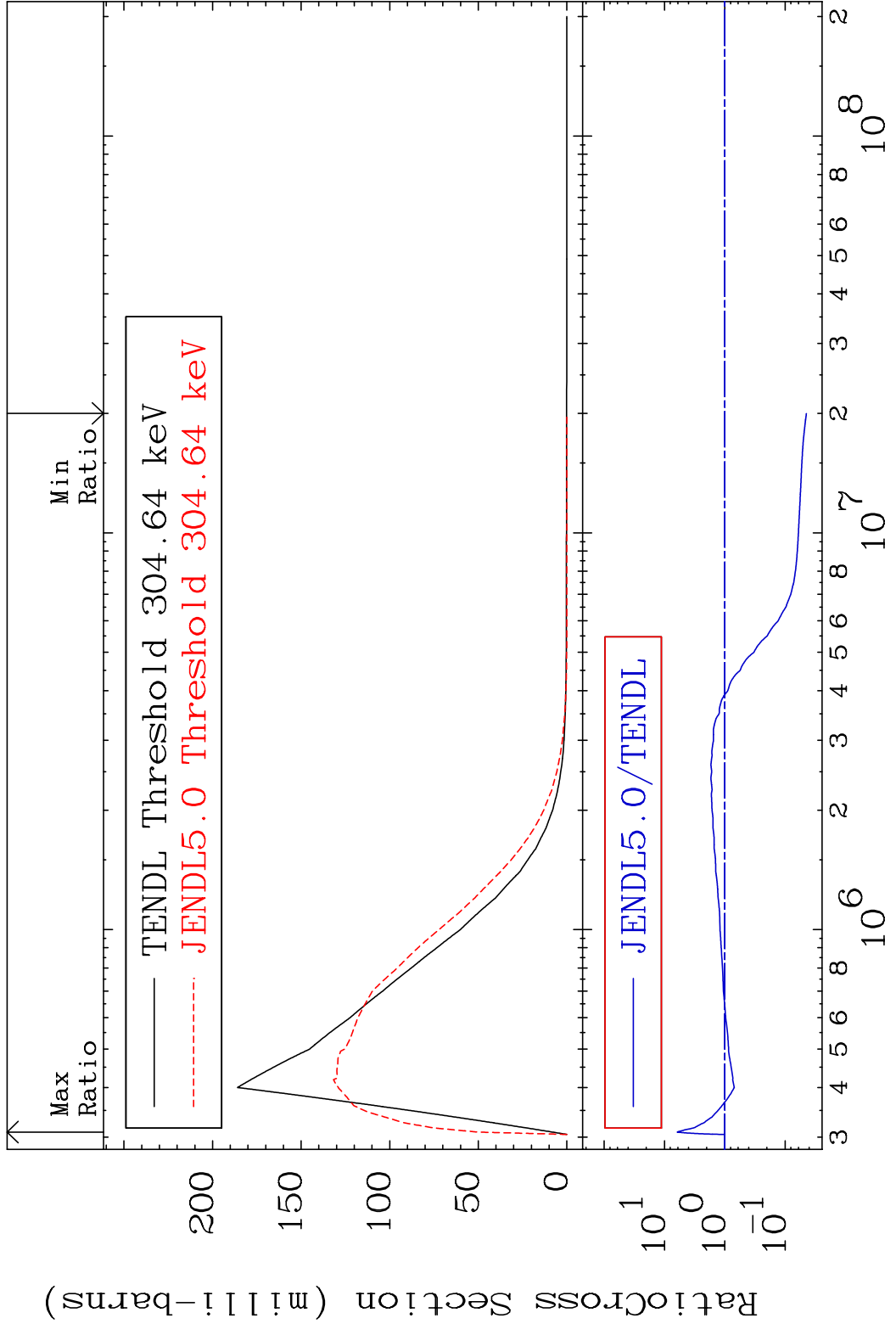
MAT 6246 MT= 63 (n, n') Level 62-Sm-151
 Cross Section -90.46 To 112.0 %



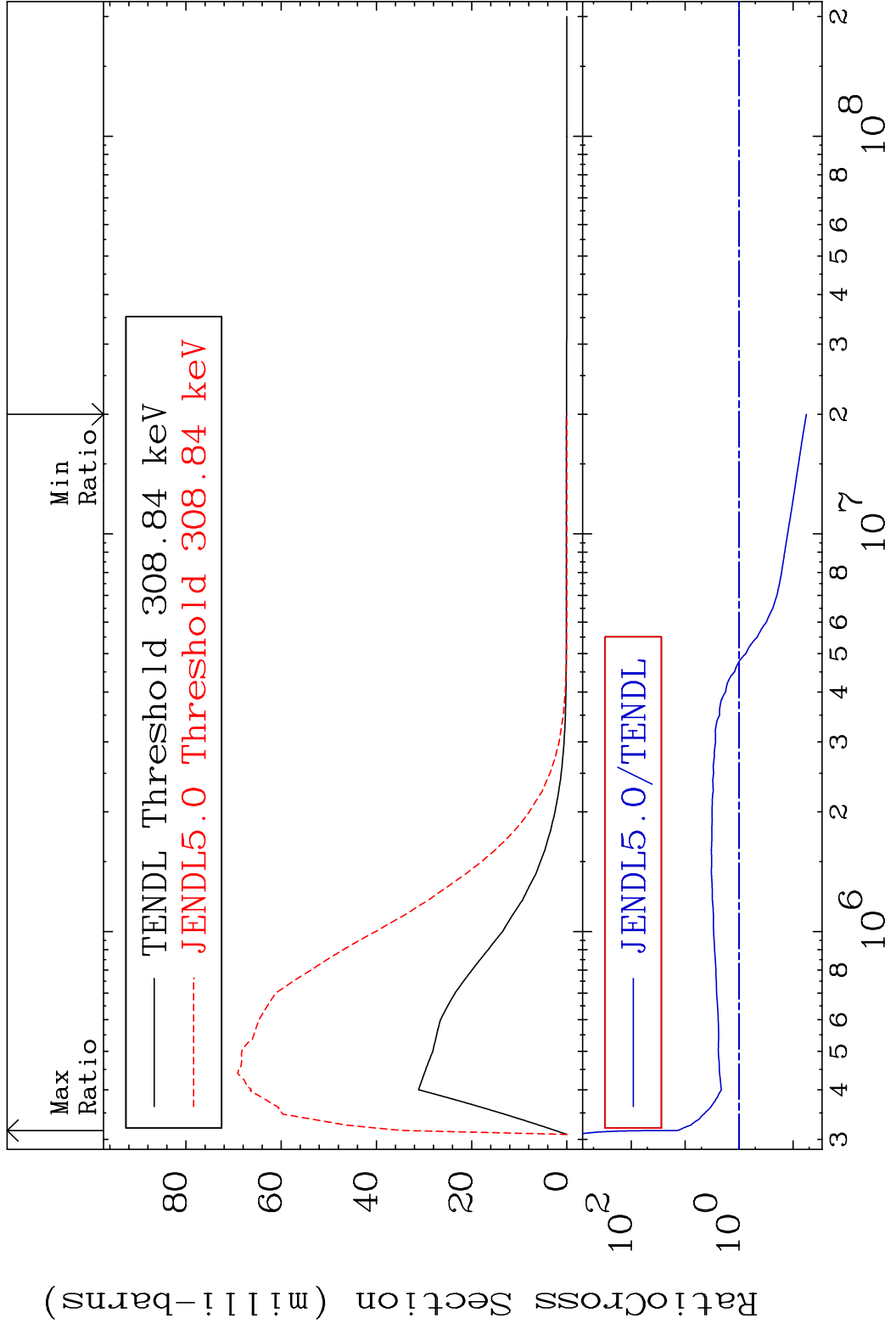
MAT 6246 MT= 64 (n,n') Level 62-Sm-151
 Cross Section -99.98 To -56.89%



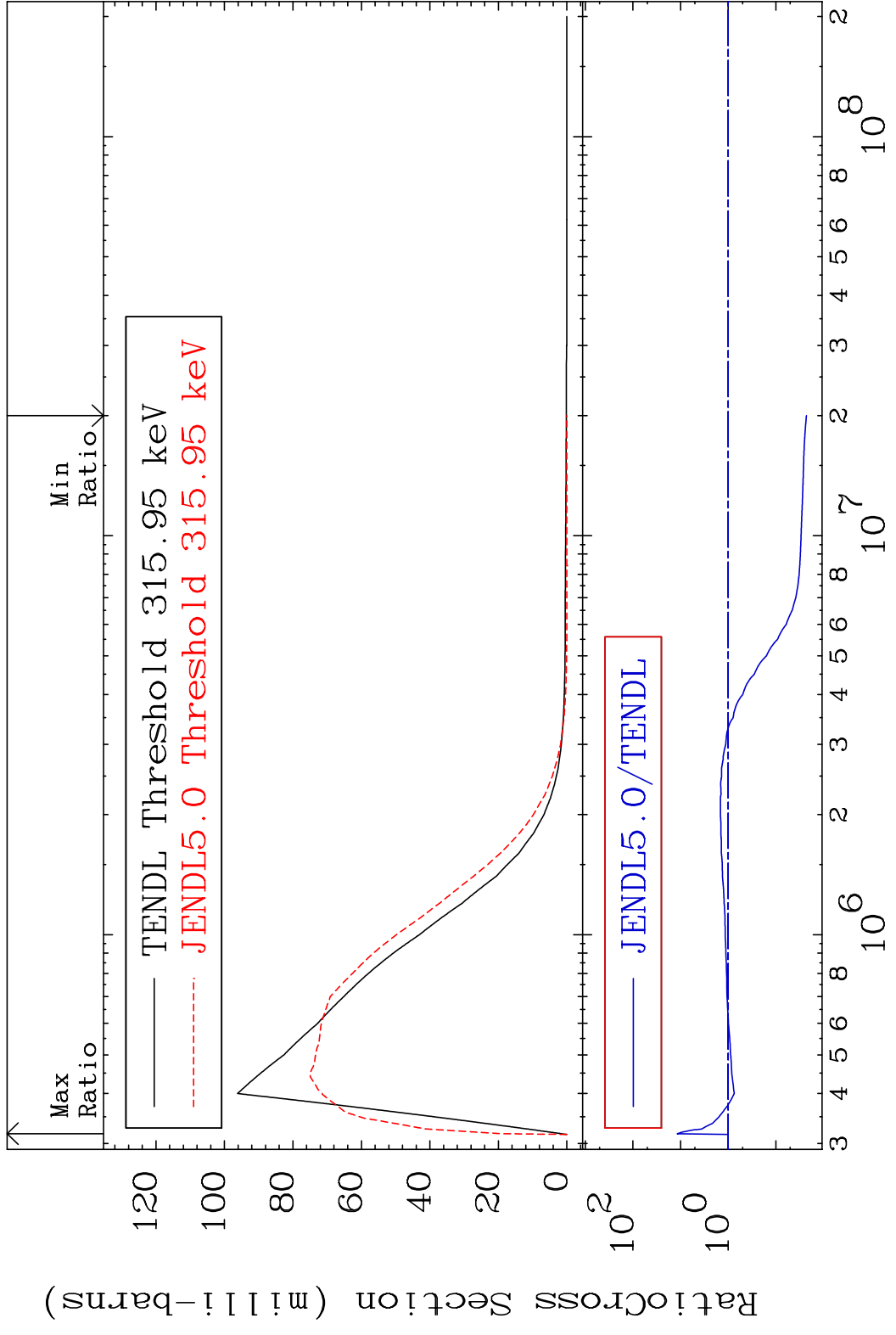
MAT 6246 MT= 65 (n,n') Level 62-Sm-151
 Cross Section -95.57 To 515.4 %



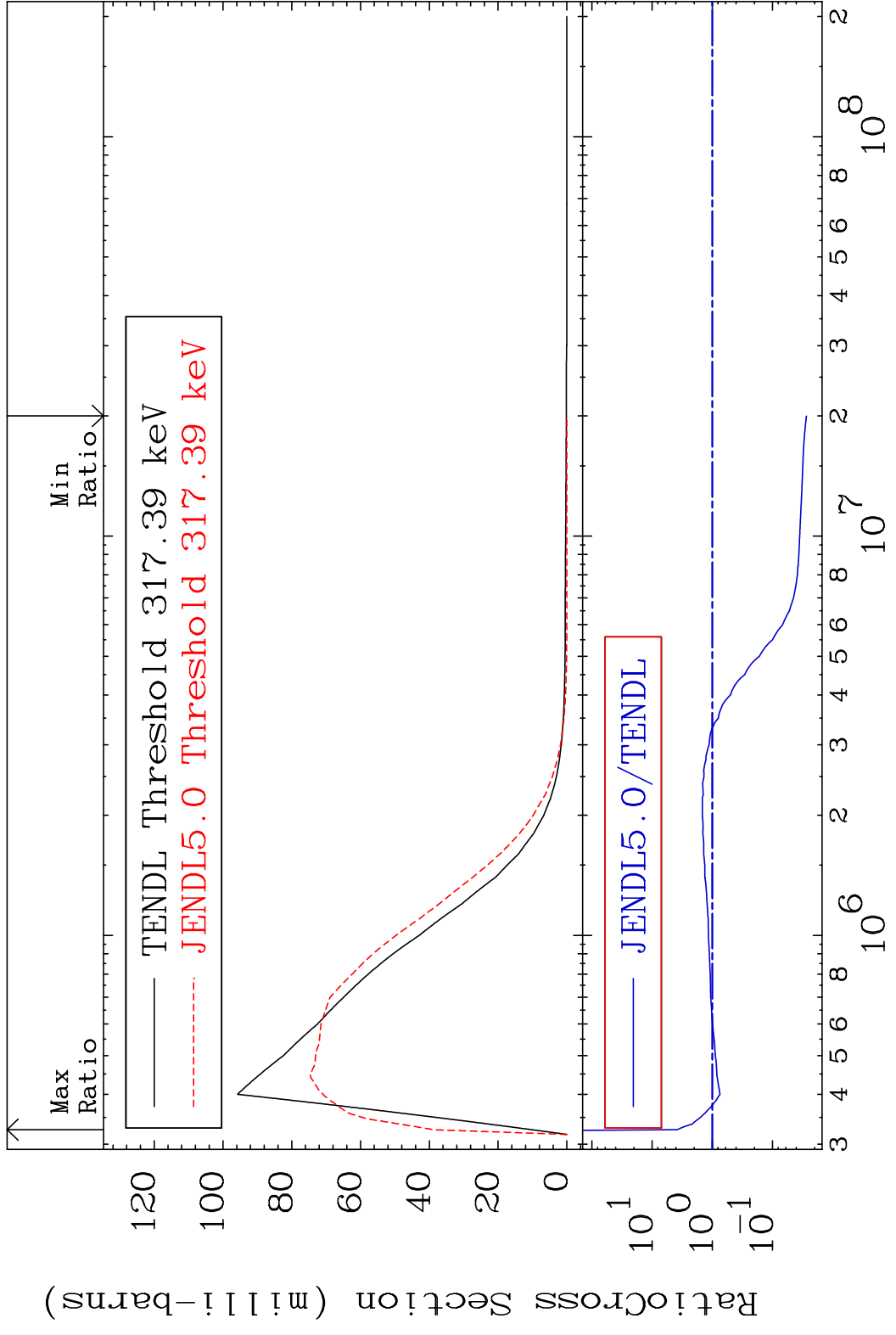
MAT 6246 MT= 66 (n,n') Level 62-Sm-151
 Cross Section -94.35 To 1305. %



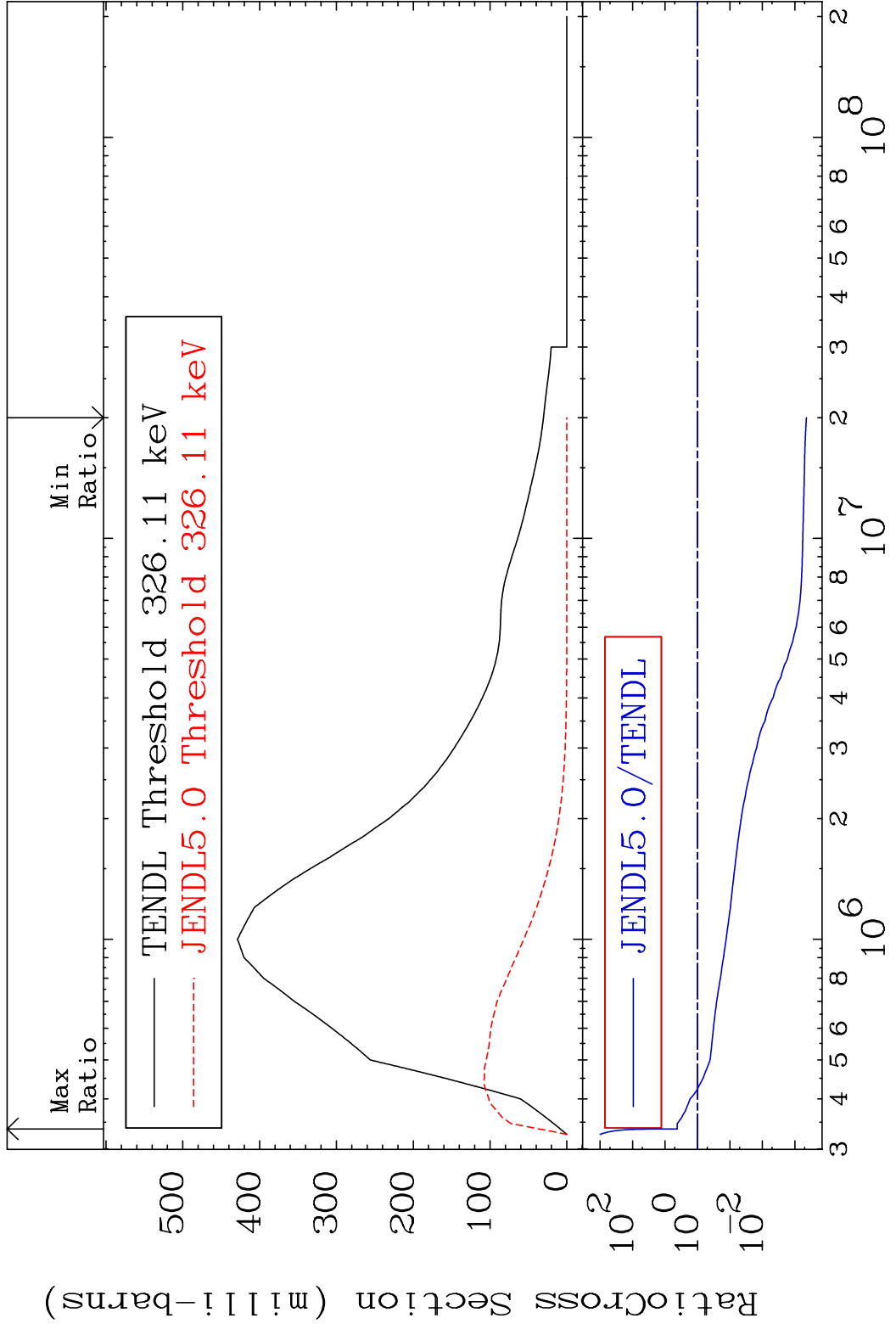
MAT 6246 MT= 67 (n,n') Level 62-Sm-151
 Cross Section -97.72 To 1077. %



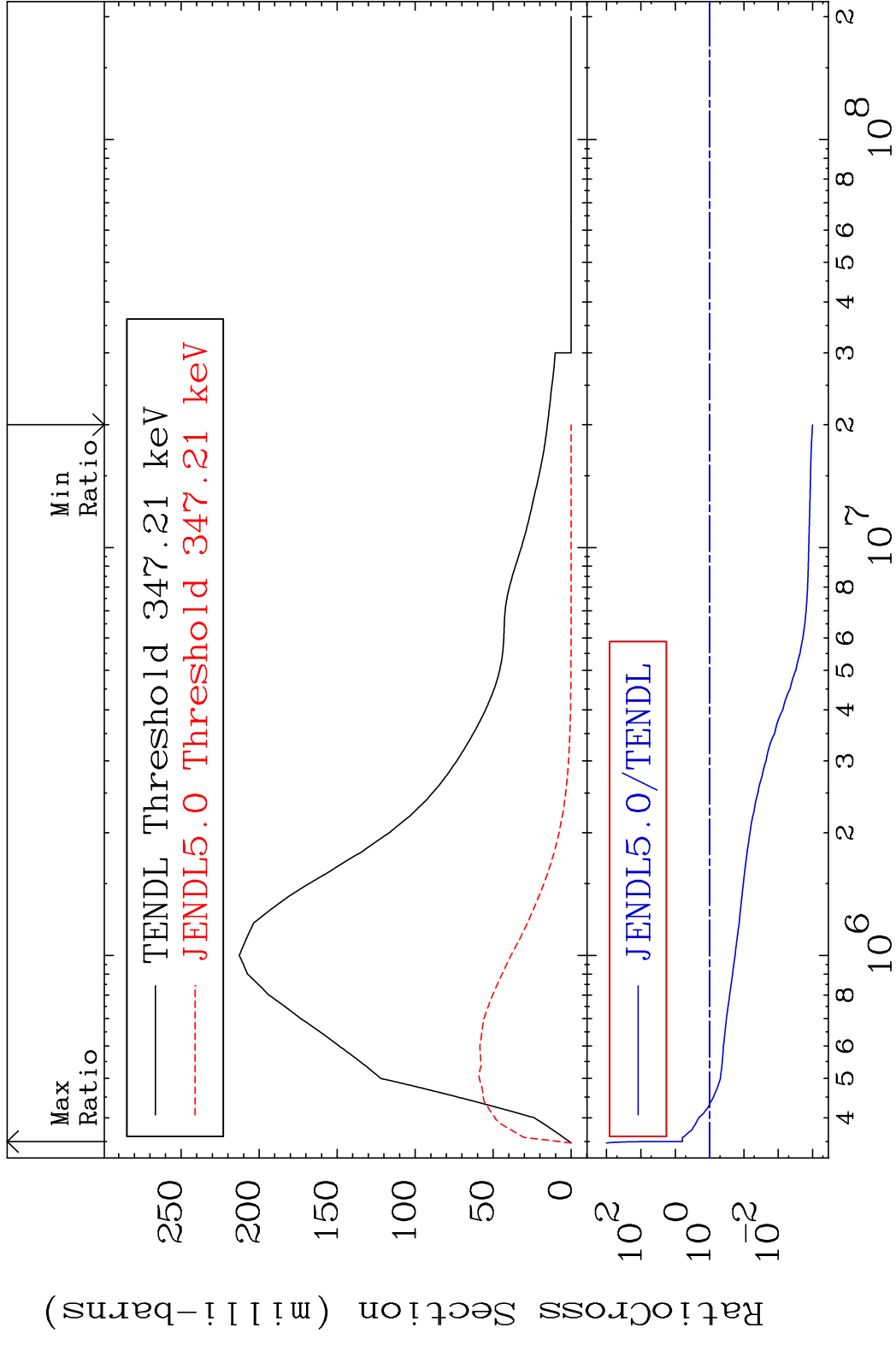
MAT 6246 MT= 68 (n,n') Level 62-Sm-151
 Cross Section -97.28 To 281.7 %



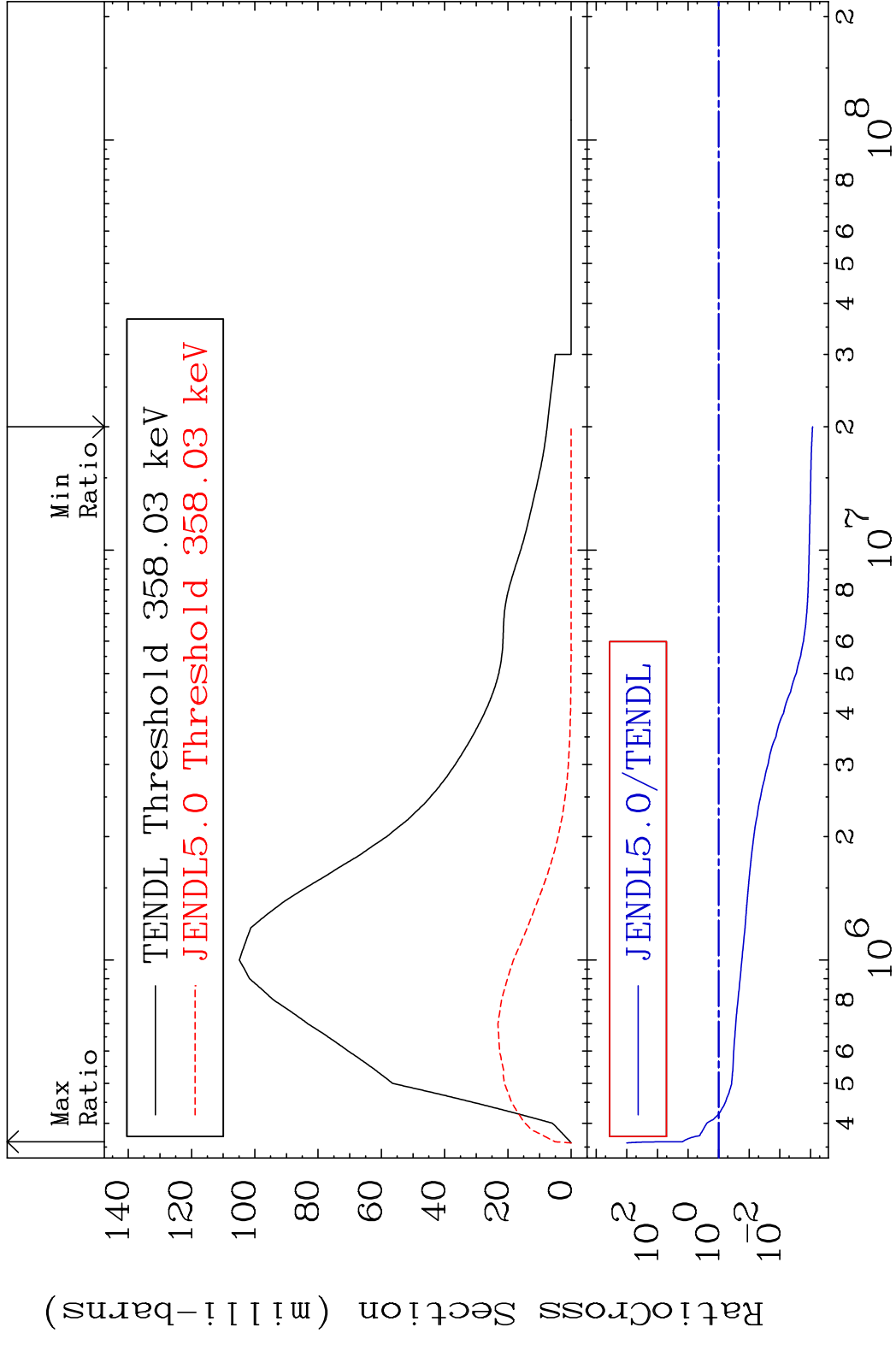
MAT 6246 MT= 69 (n, n') Level 62-Sm-151
 Cross Section -99.96 To 322.7 %



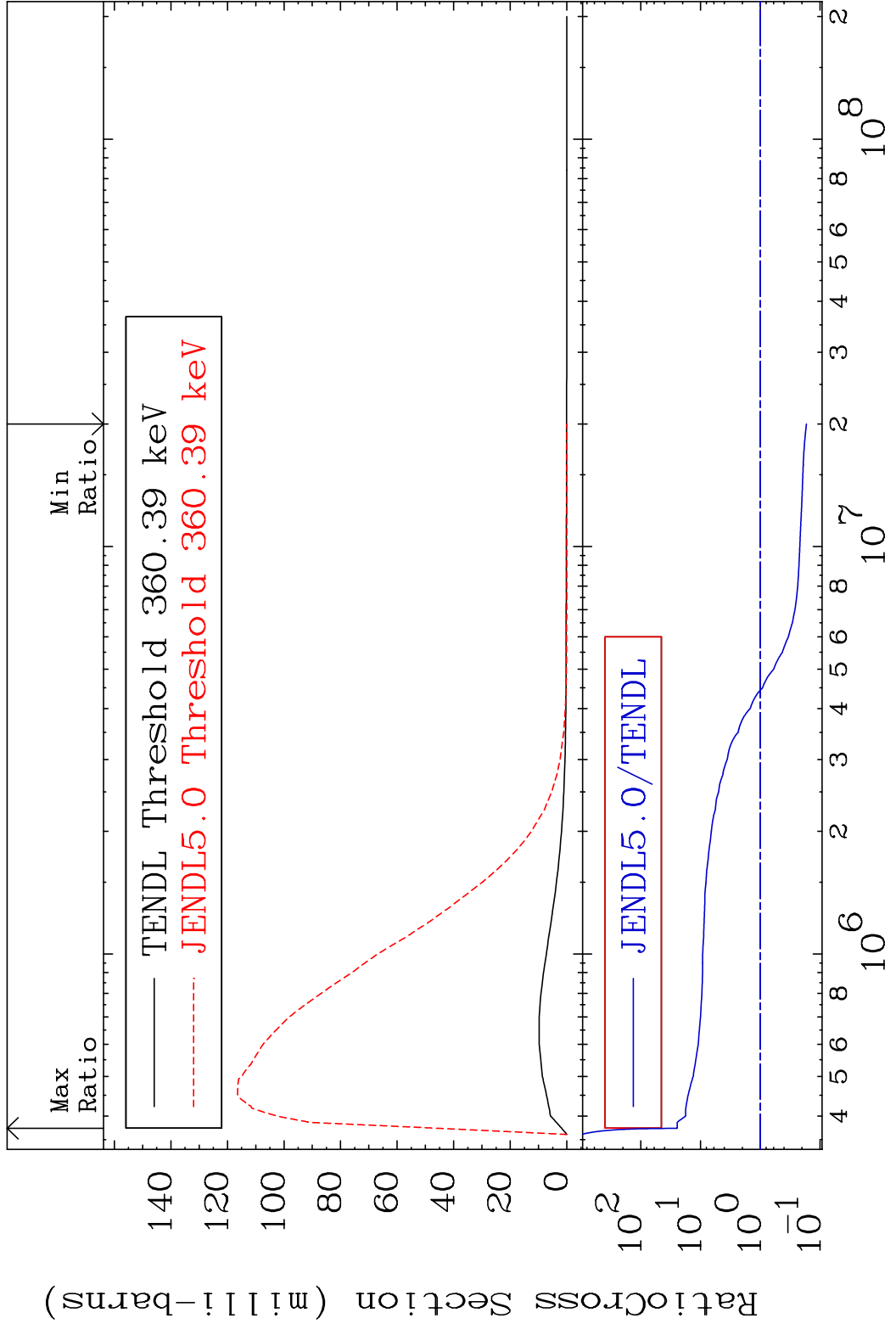
MAT 6246 MT= 70 (n,n') Level 62-Sm-151
 Cross Section -99.90 To 520.7 %



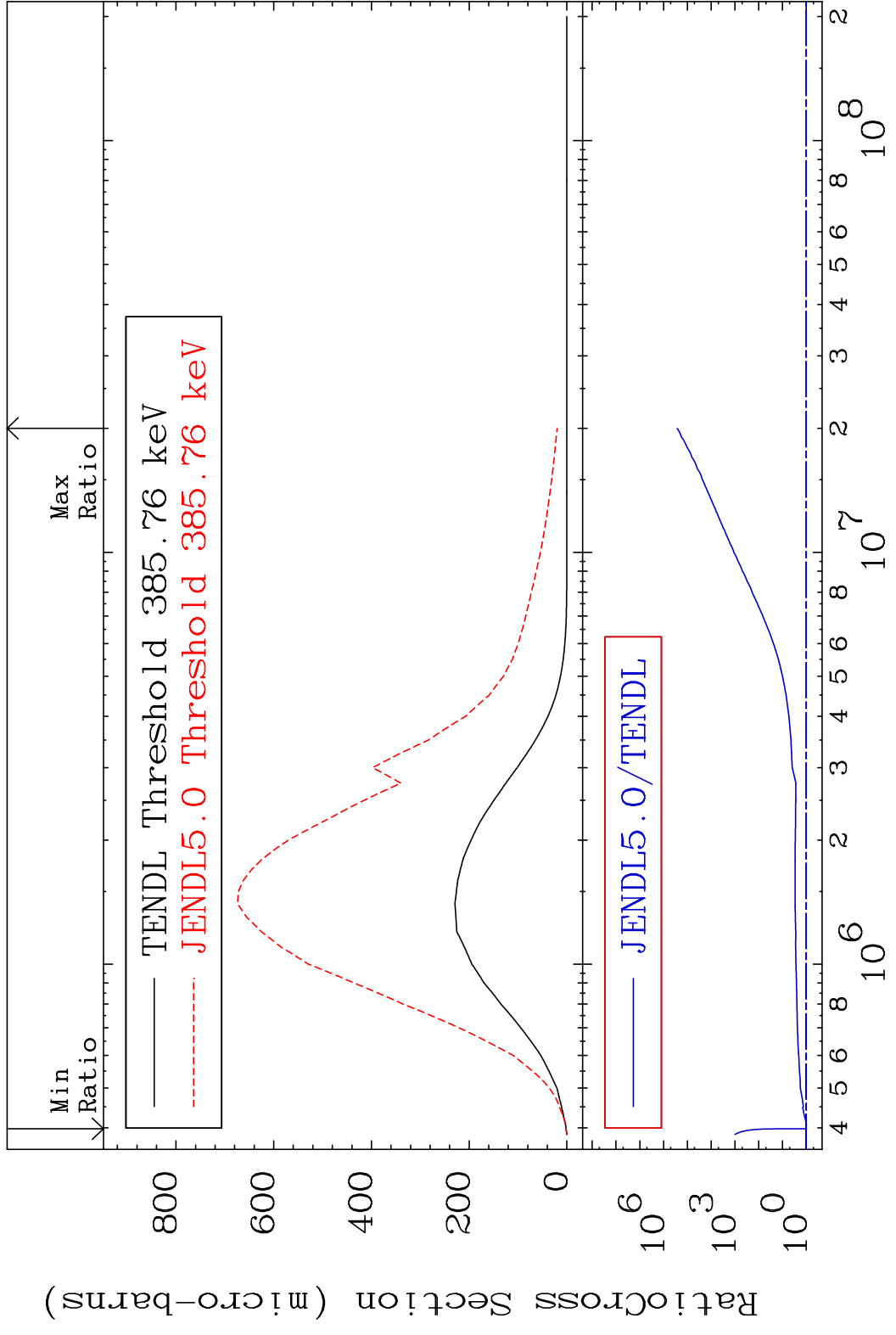
MAT 6246 MT= 71 (n, n') Level 62-Sm-151
 Cross Section -99.91 To 1433. %



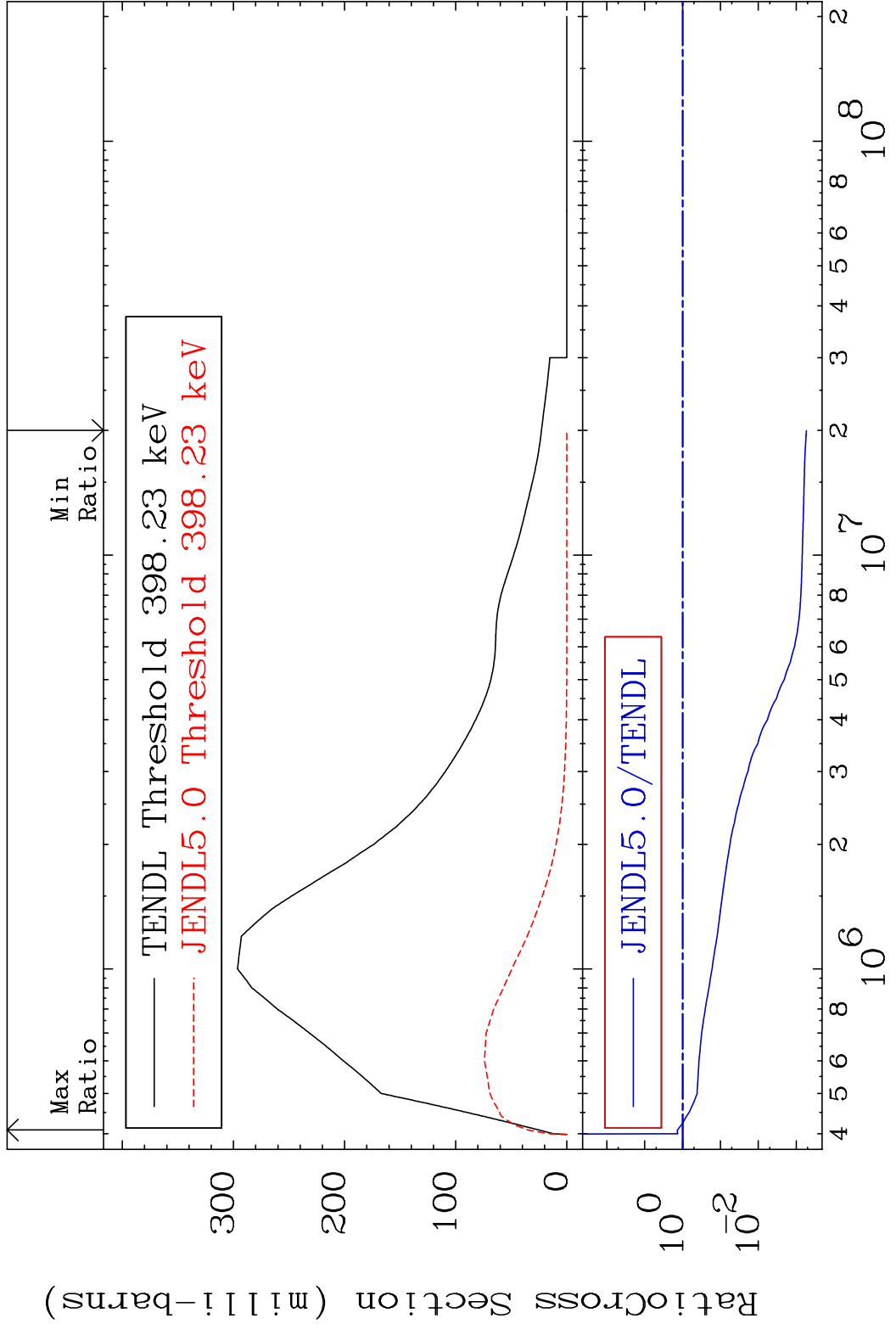
MAT 6246 MT= 72 (n,n') Level 62-Sm-151
 Cross Section -83.11 To 2364. %



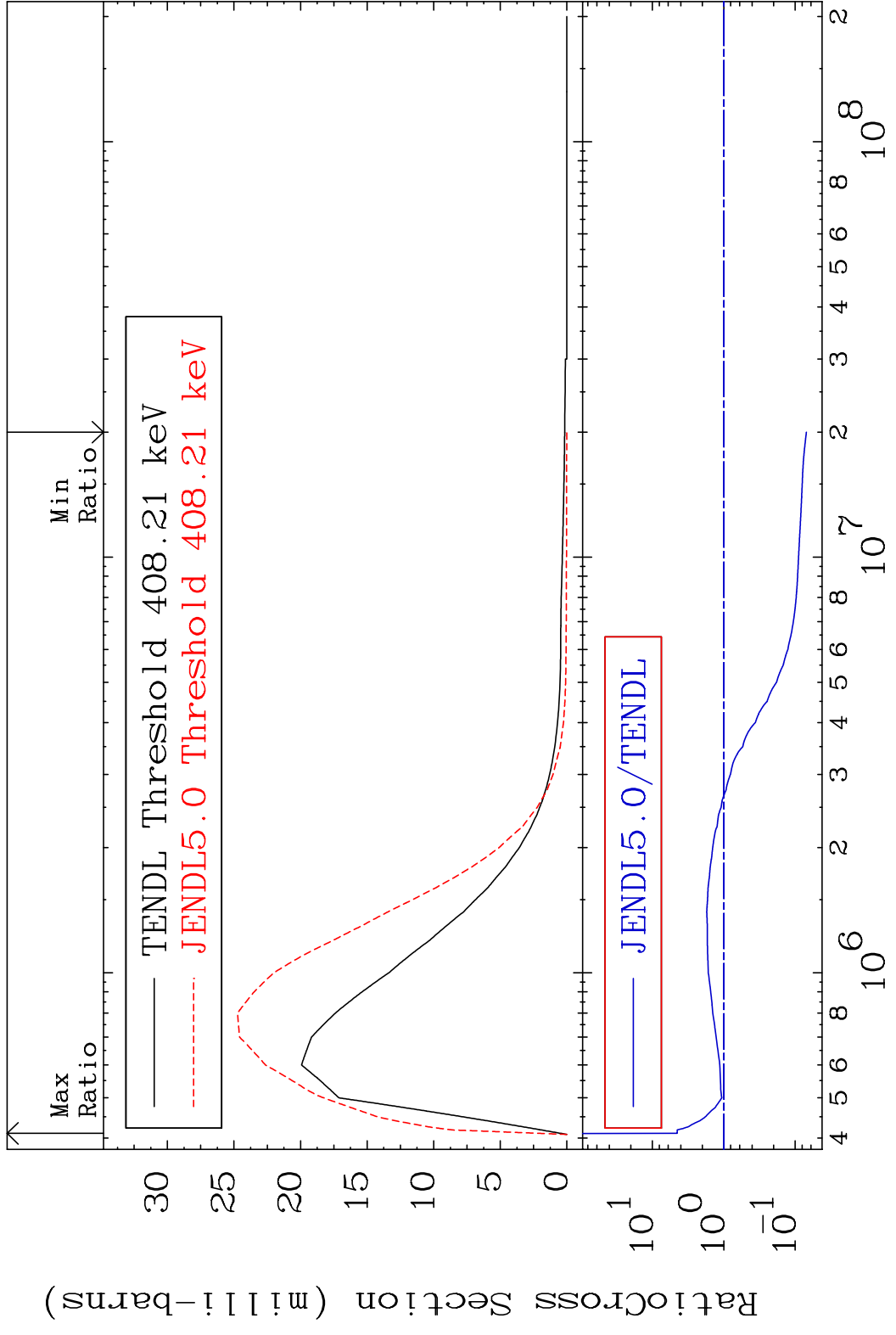
MAT 6246 MT= 73 (n, n') Level 62-Sm-151
 Cross Section -1.175 To 9999. %



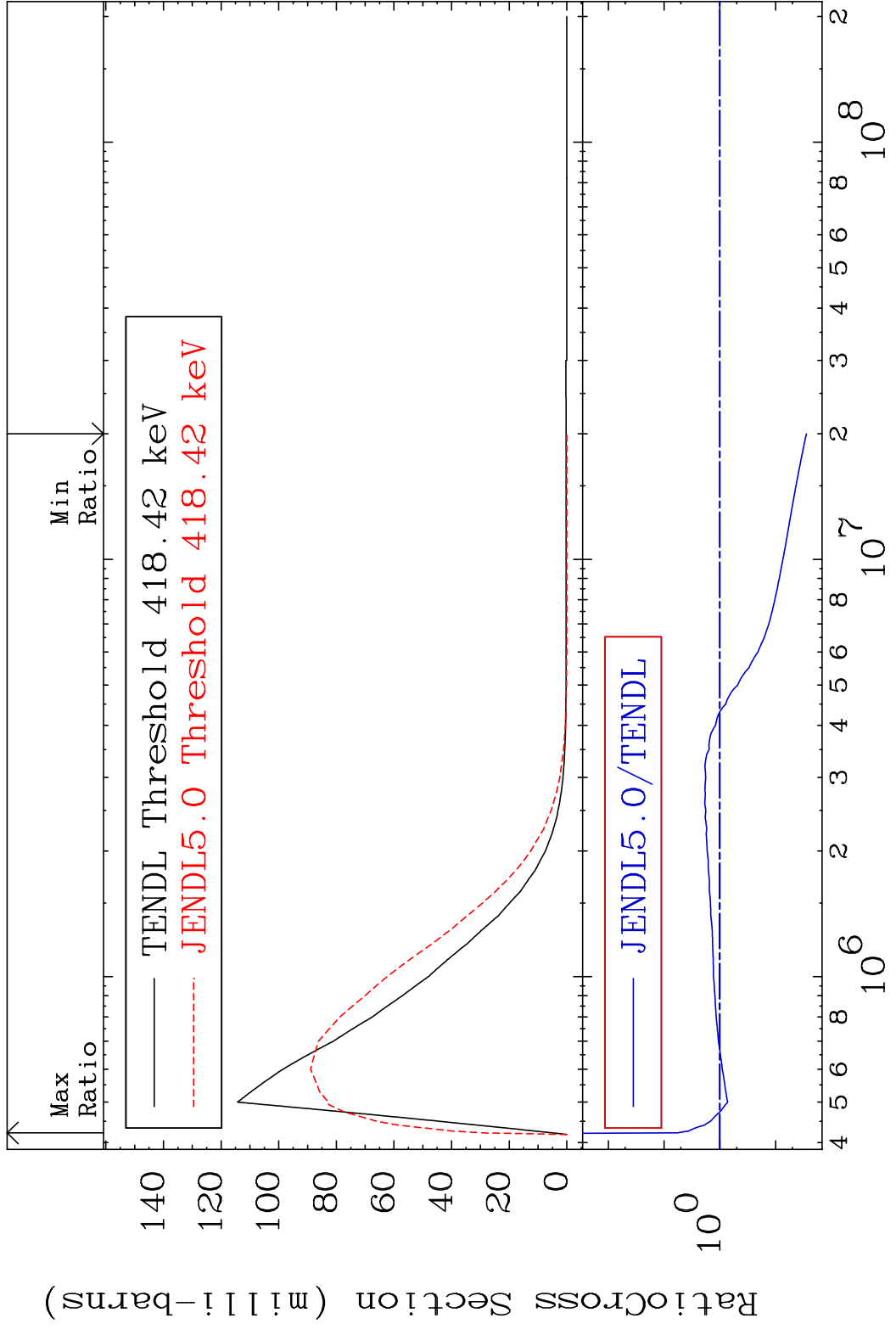
MAT 6246 MT= 74 (n, n') Level 62-Sm-151
 Cross Section -99.95 To 38.52 %



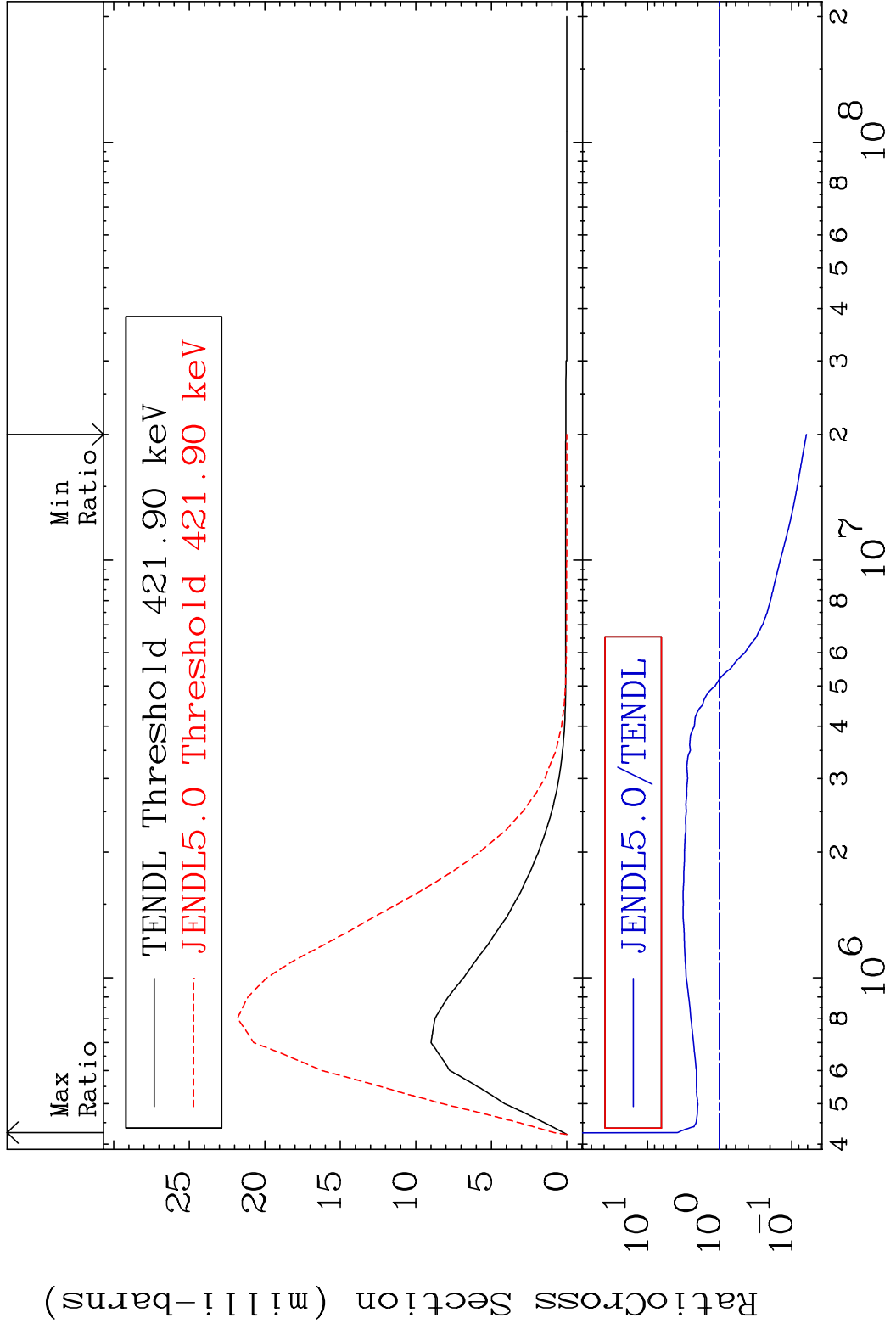
MAT 6246 MT= 75 (n,n') Level 62-Sm-151
 Cross Section -93.04 To 349.3 %



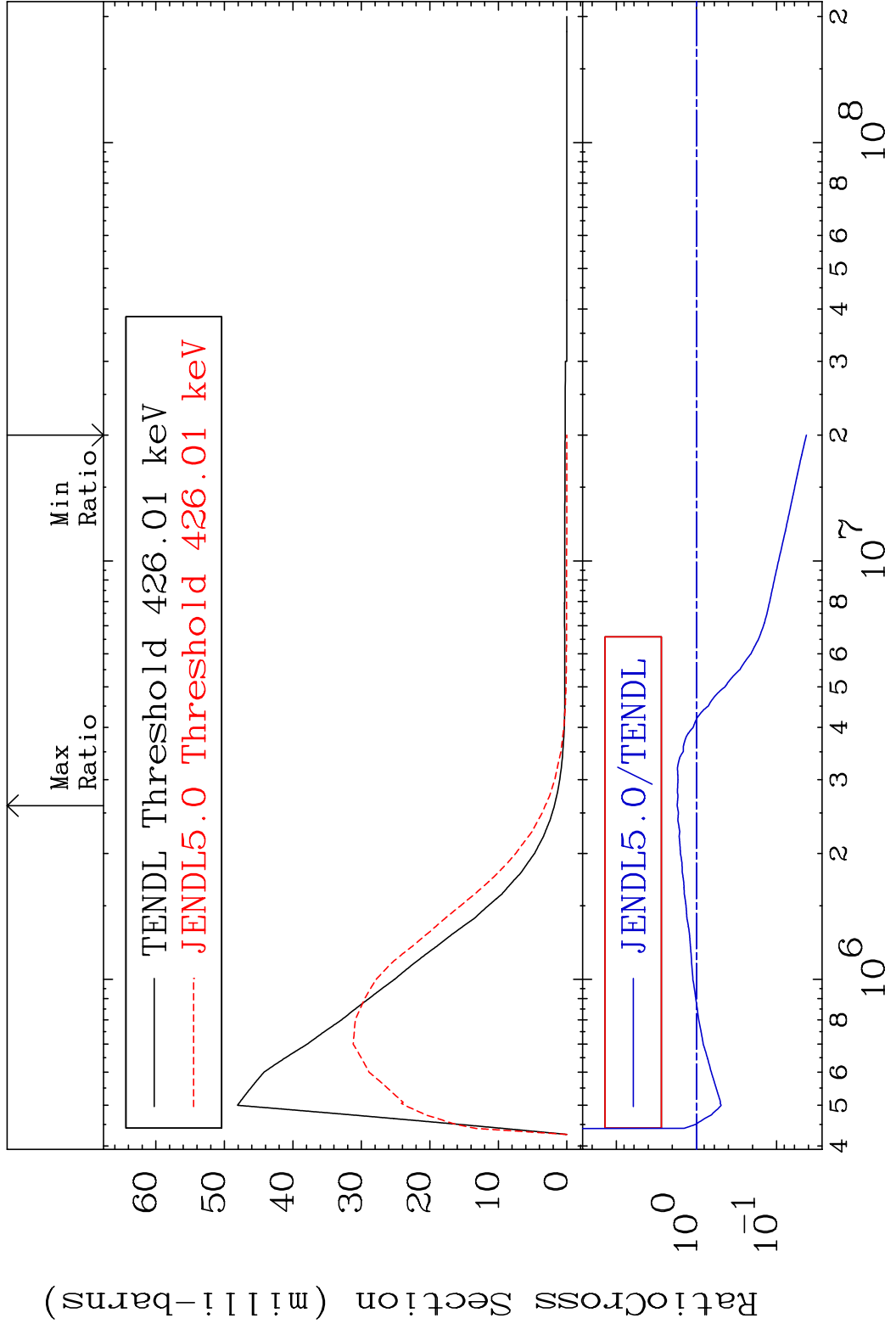
MAT 6246 MT= 76 (n,n') Level 62-Sm-151
 Cross Section -97.20 To 482.6 %



MAT 6246 MT= 77 (n,n') Level 62-Sm-151
 Cross Section -93.75 To 287.3 %

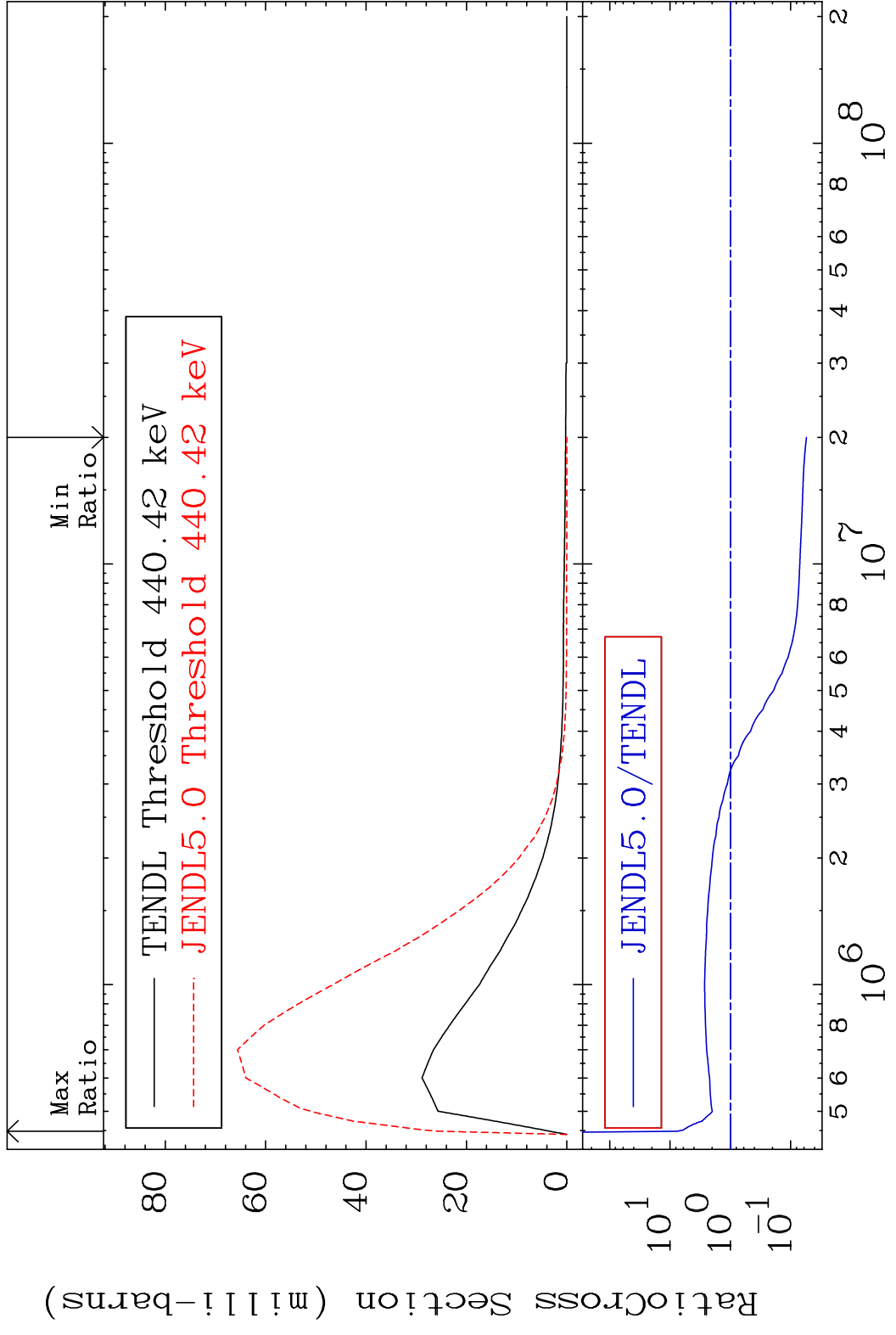


MAT 6246 MT= 78 (n, n') Level 62-Sm-151
 Cross Section -95.75 To 73.97 %

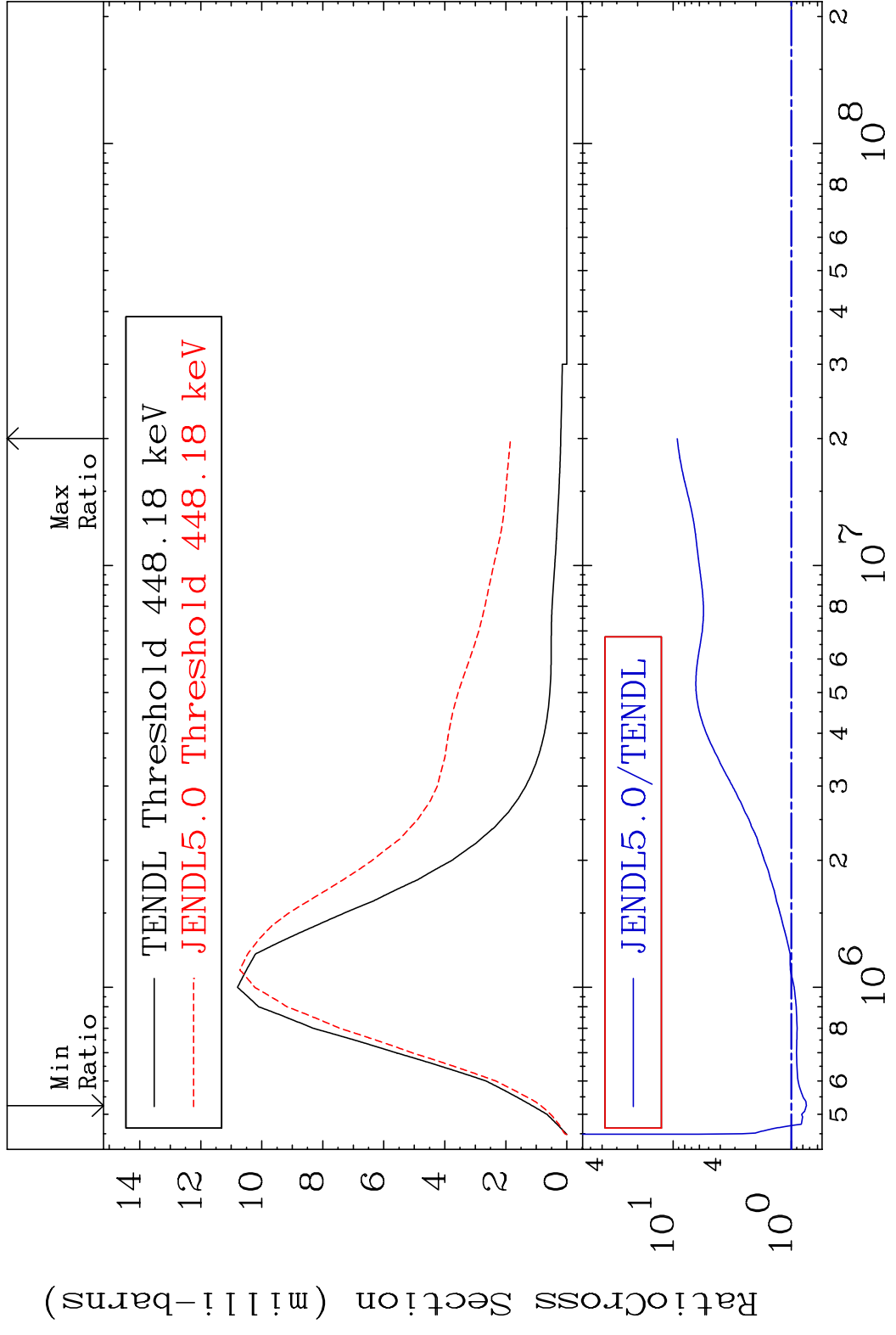


40 Incident Energy (eV) 62-Sm-151

MAT 6246 MT= 79 (n,n') Level 62-Sm-151
 Cross Section -94.51 To 660.3 %



MAT 6246 MT= 80 (n, n') Level 62-Sm-151
 Cross Section -25.37 To 824.8 %

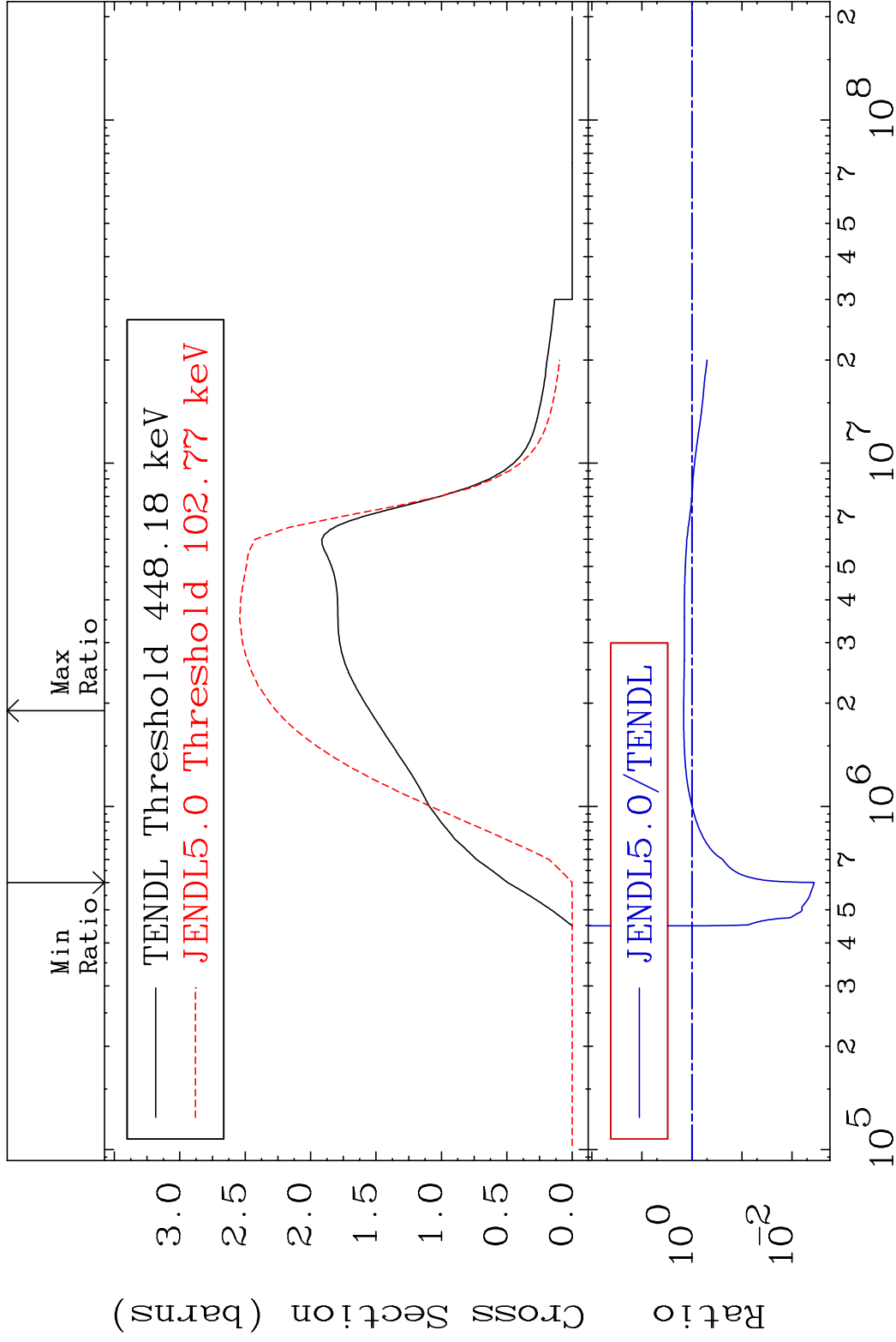


MAT 6246

(n, n') Continuum

62-Sm-151

Cross Section -99.64 To 46.31 %



43

Incident Energy (eV)

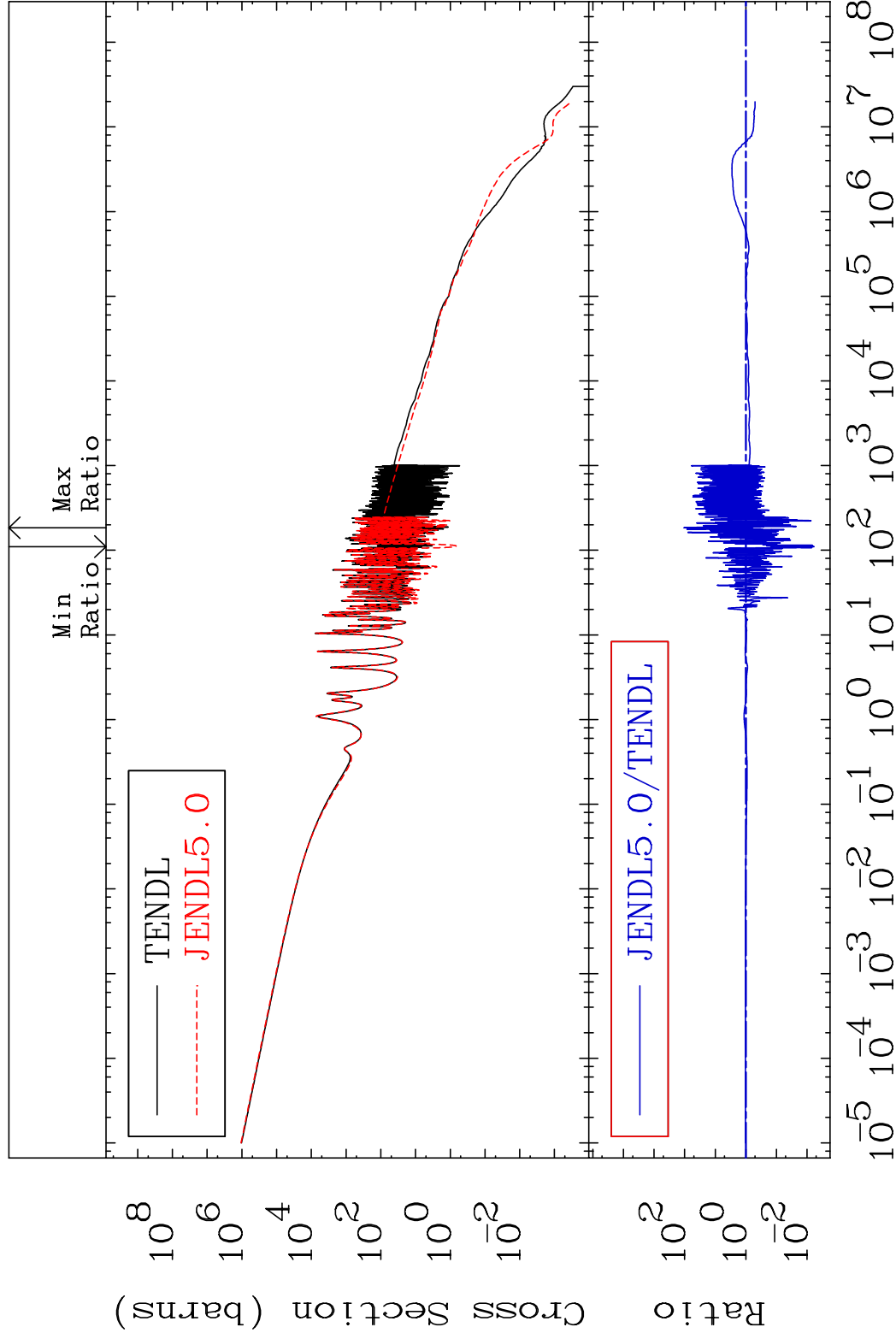
62-Sm-151

MAT 6246

(n, γ)

62-Sm-151

Cross Section -99.42 To 9999. %



44

Incident Energy (eV)

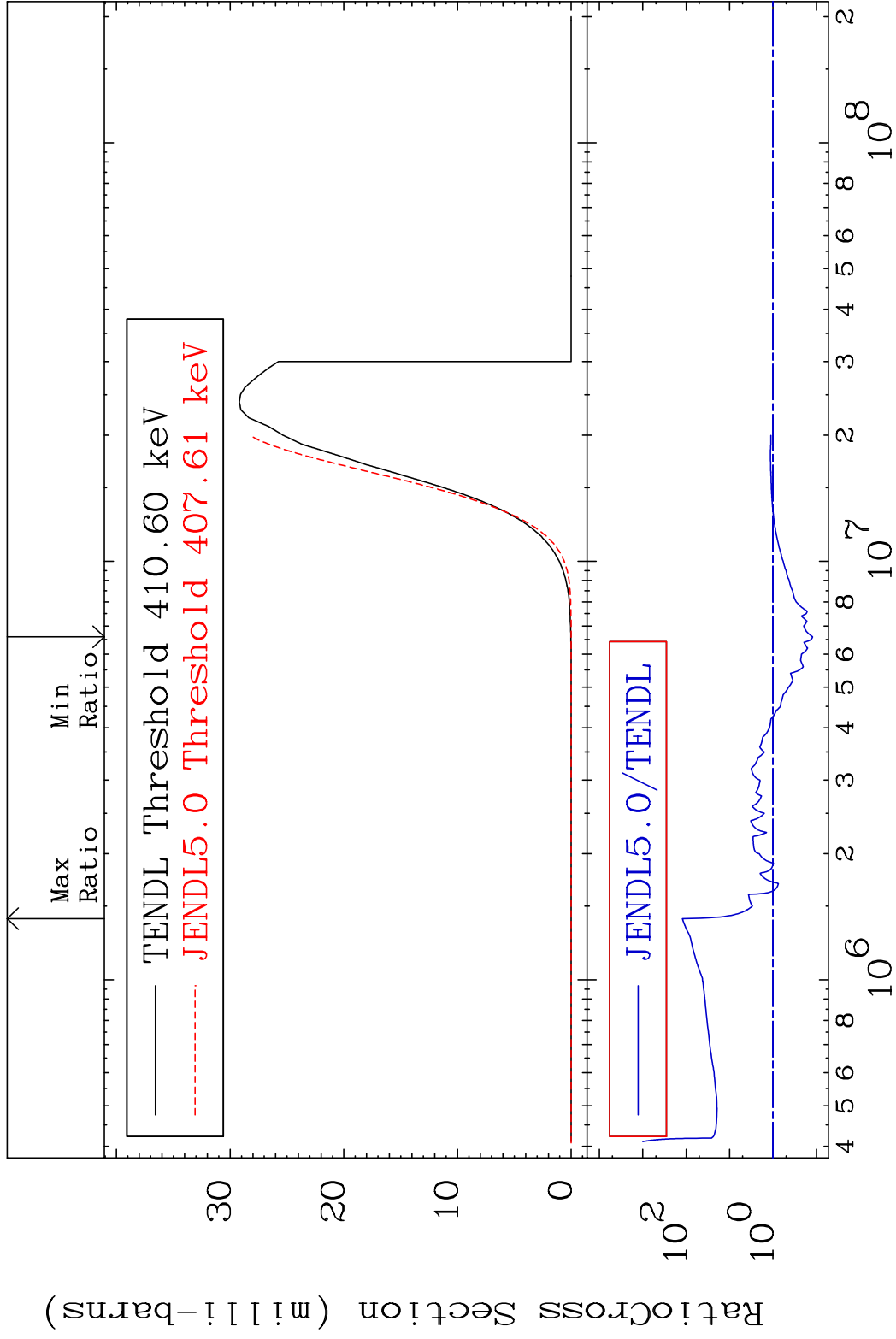
62-Sm-151

MAT 6246

(n, p)

62-Sm-151

Cross Section -87.76 To 9999. %



45

Incident Energy (eV)

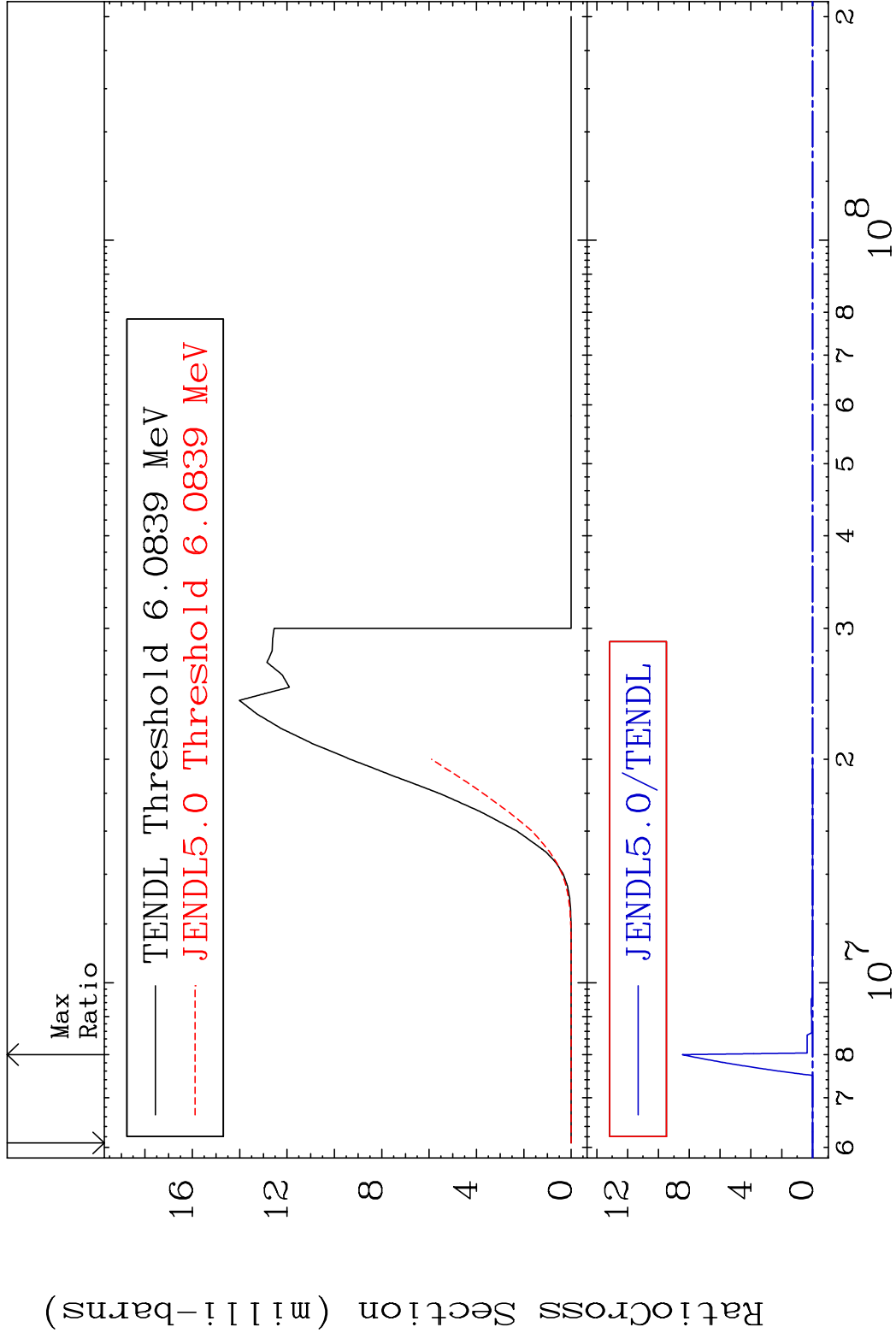
62-Sm-151

MAT 6246

(n,d)

62-Sm-151

Cross Section -100.0 To 9999. %



46

Incident Energy (eV)

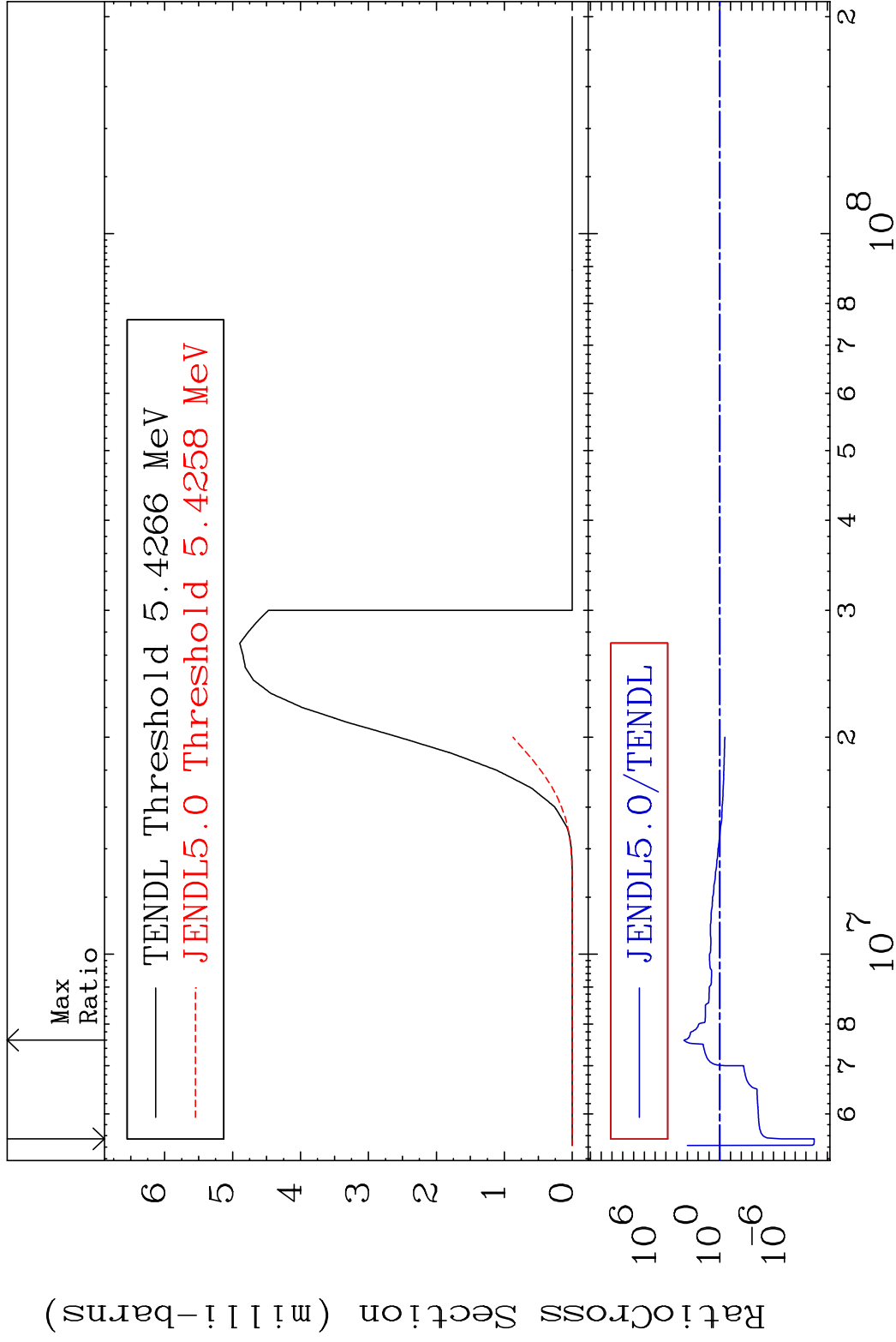
62-Sm-151

MAT 6246

(n, t)

62-Sm-151

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

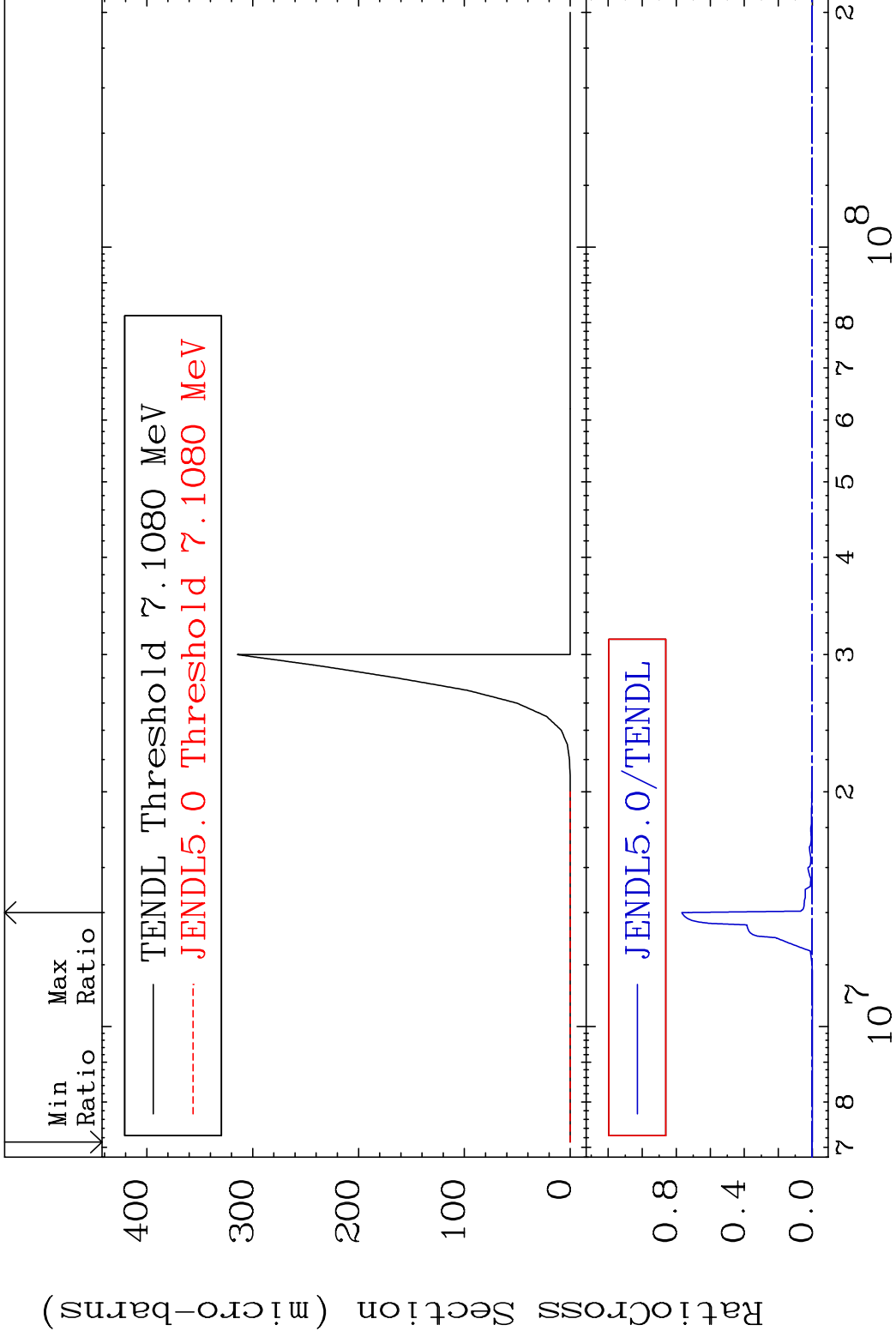
62-Sm-151

MAT 6246

(n, He-3)

62-Sm-151

Cross Section -100.0 To 9999. %



48

Incident Energy (eV)

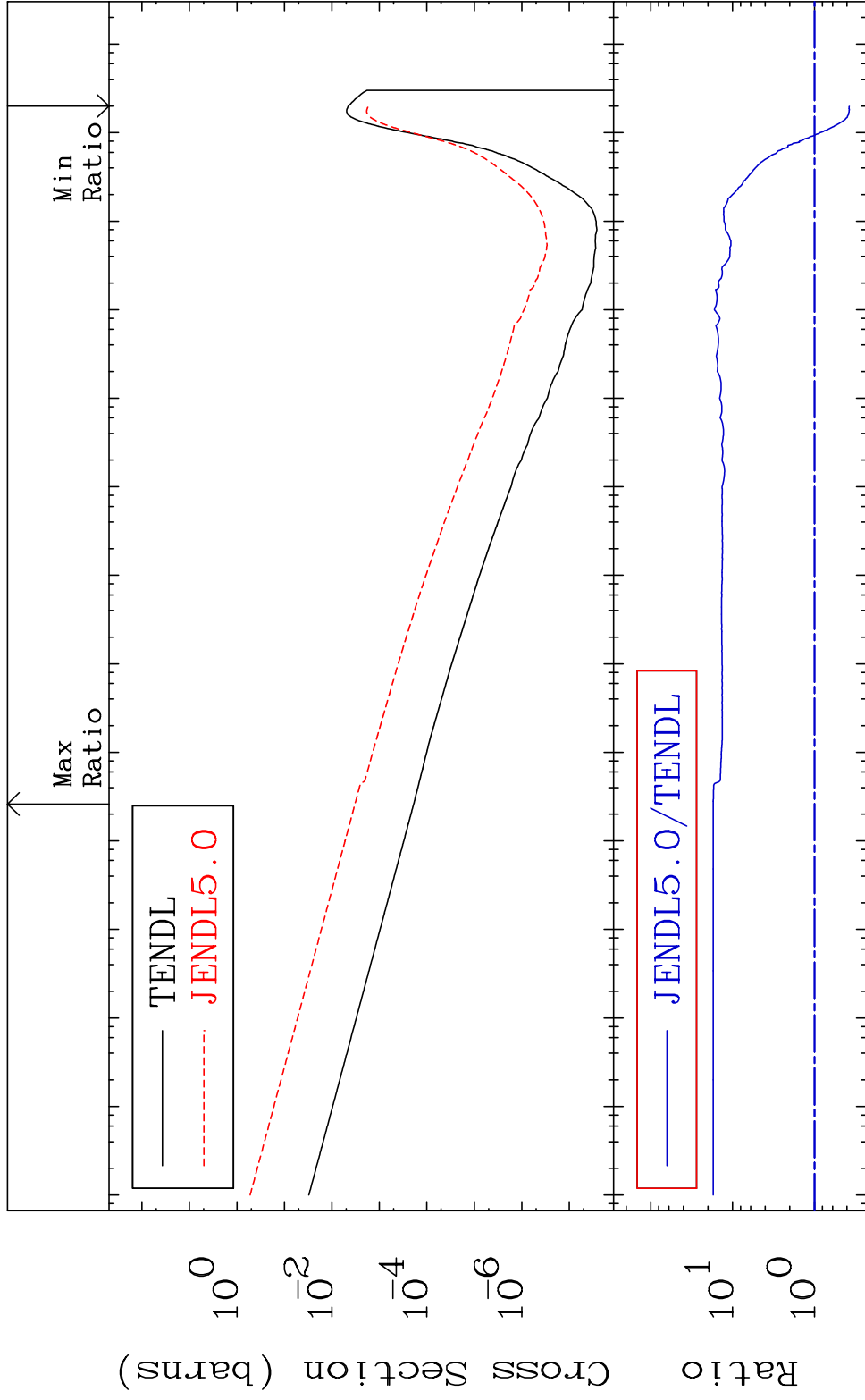
62-Sm-151

MAT 6246

(n, α)

62-Sm-151

Cross Section -62.48 To 1627. %



49

Incident Energy (eV)

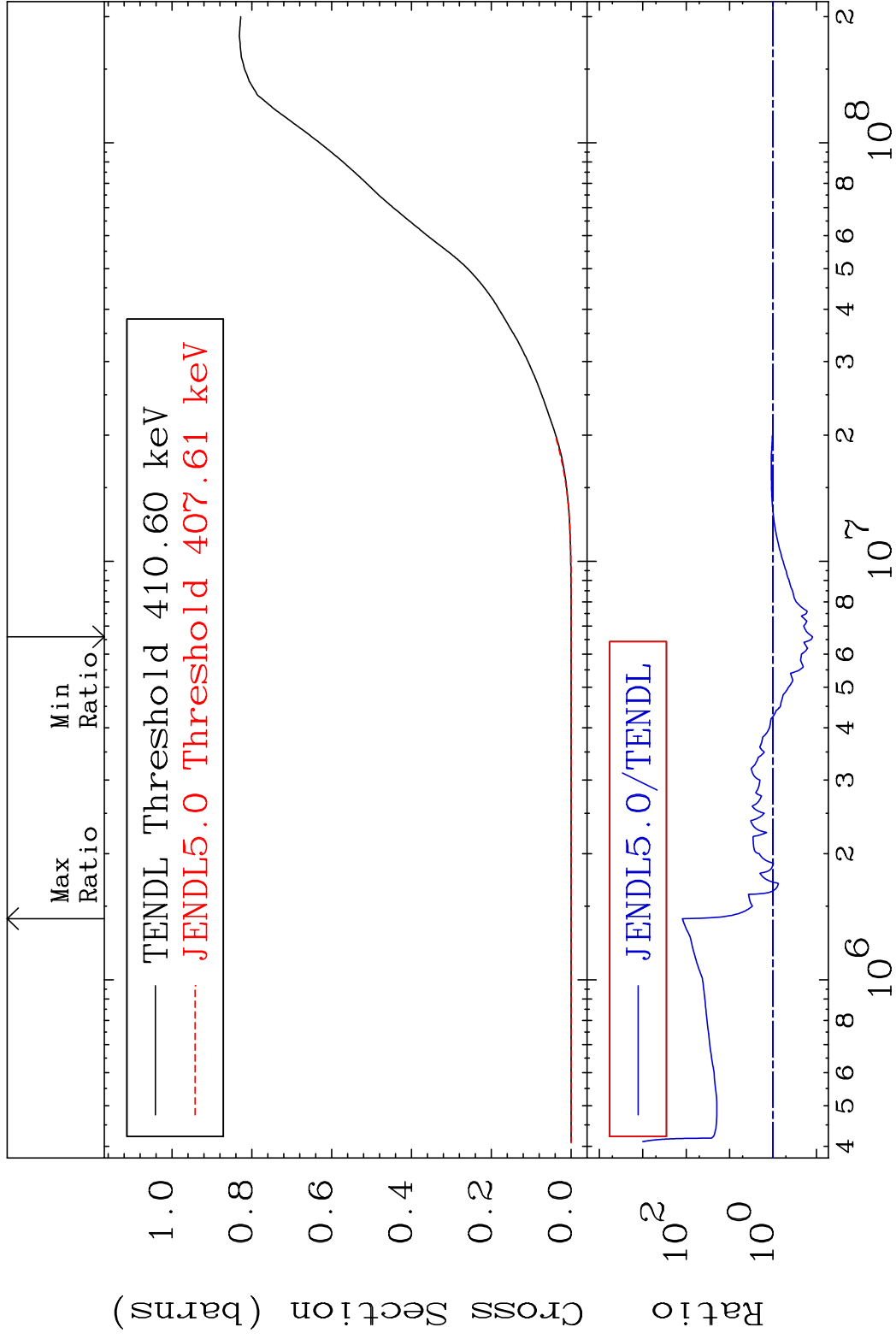
62-Sm-151

MAT 6246

Hydrogen Production

62-Sm-151

Cross Section -87.76 To 9999. %

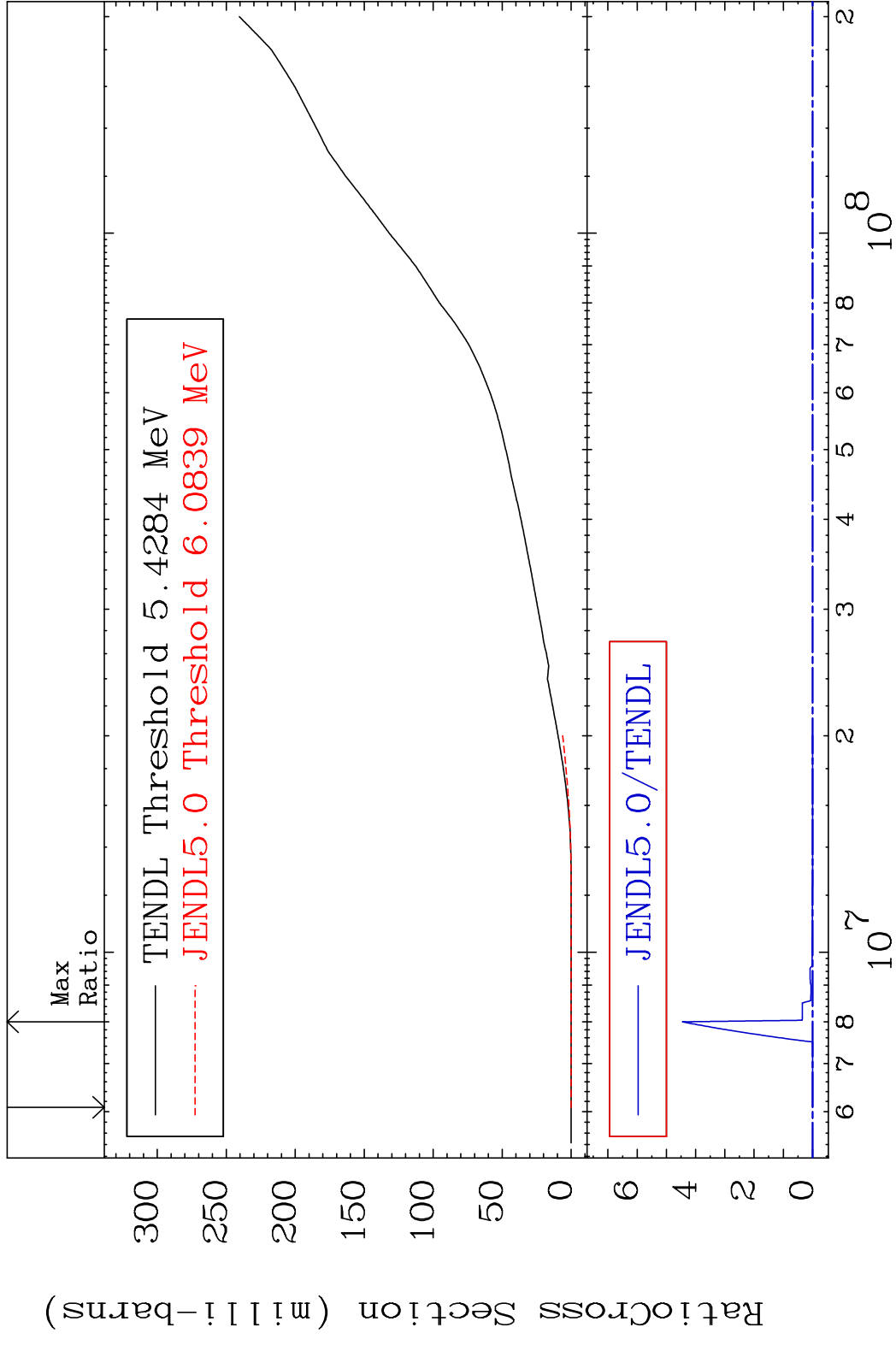


50

Incident Energy (eV)

62-Sm-151

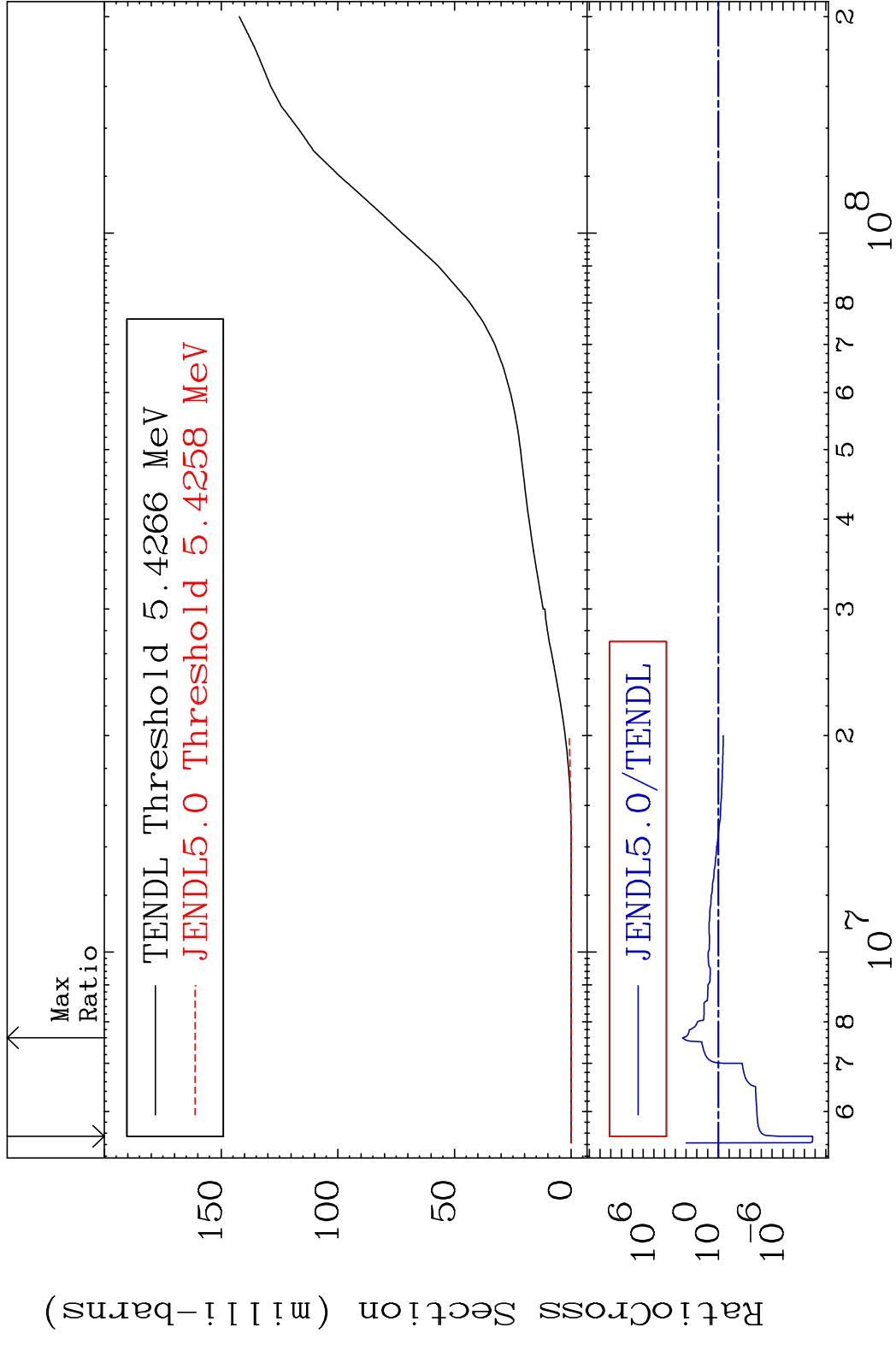
MAT 6246 Deuterium Production 62-Sm-151
 Cross Section -100.0 To 9999. %



MAT 6246

Tritium Production 62-Sm-151

Cross Section -100.0 To 9999. %

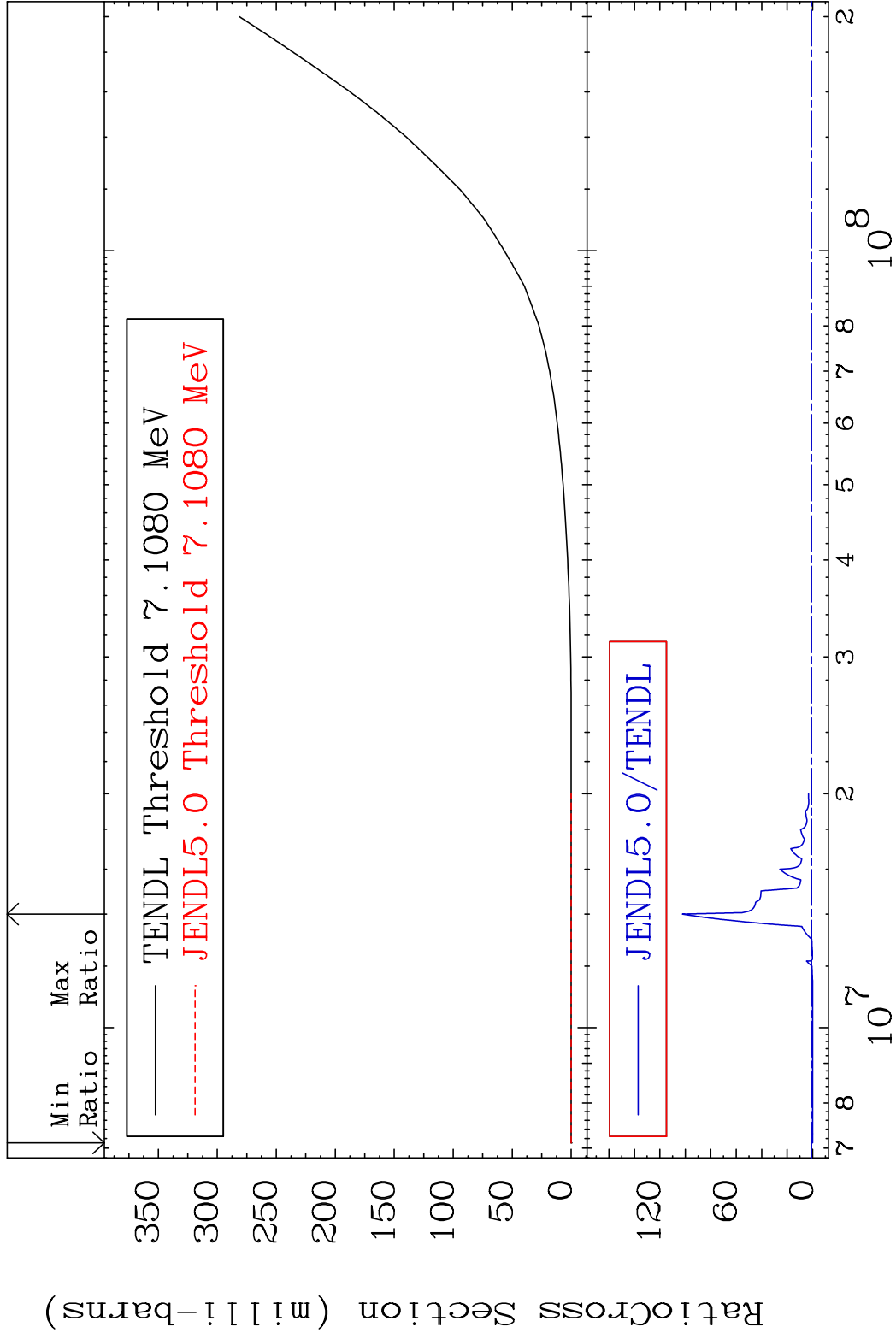


MAT 6246

He-3 Production

62-Sm-151

Cross Section -100.0 To 9999. %

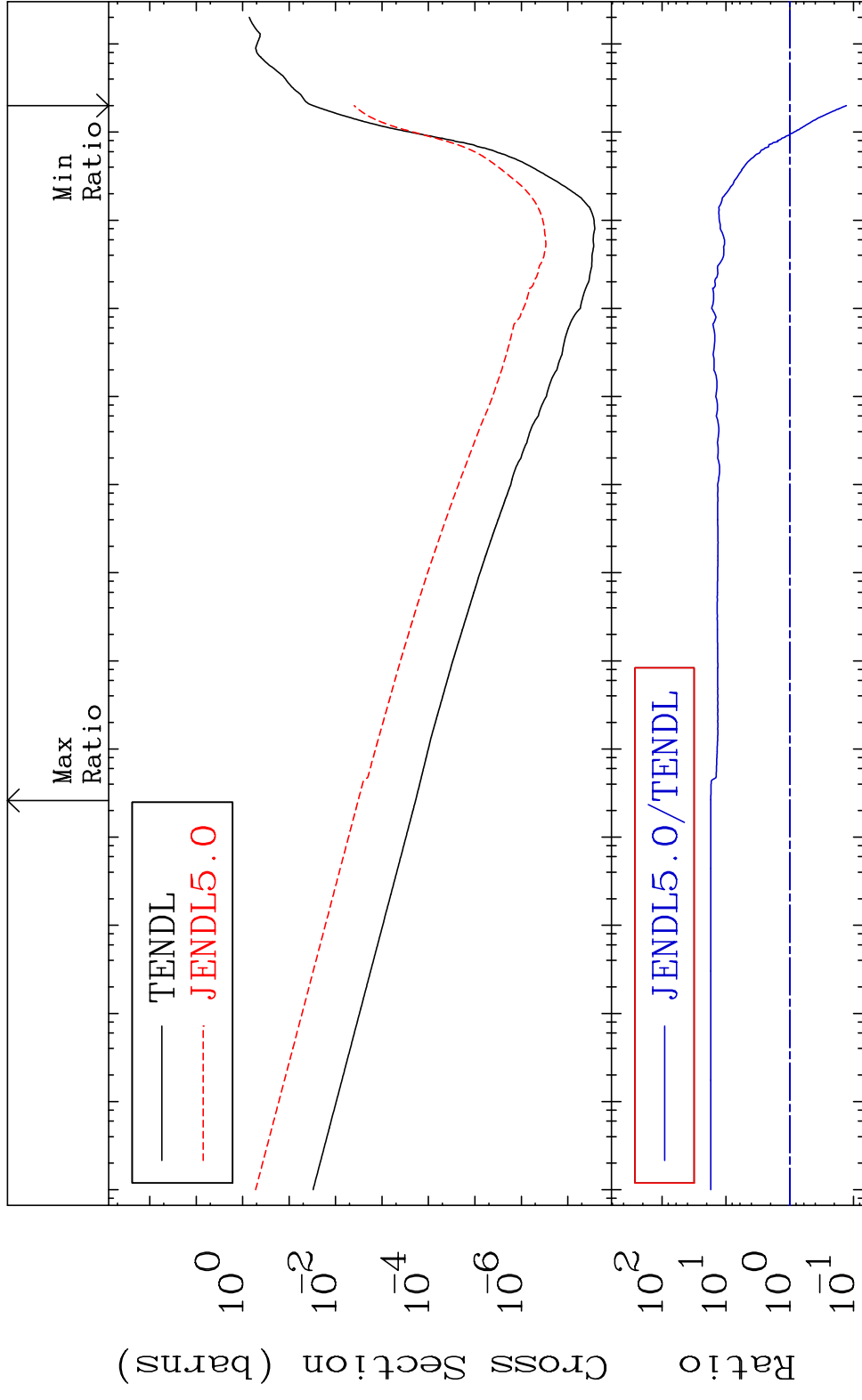


53

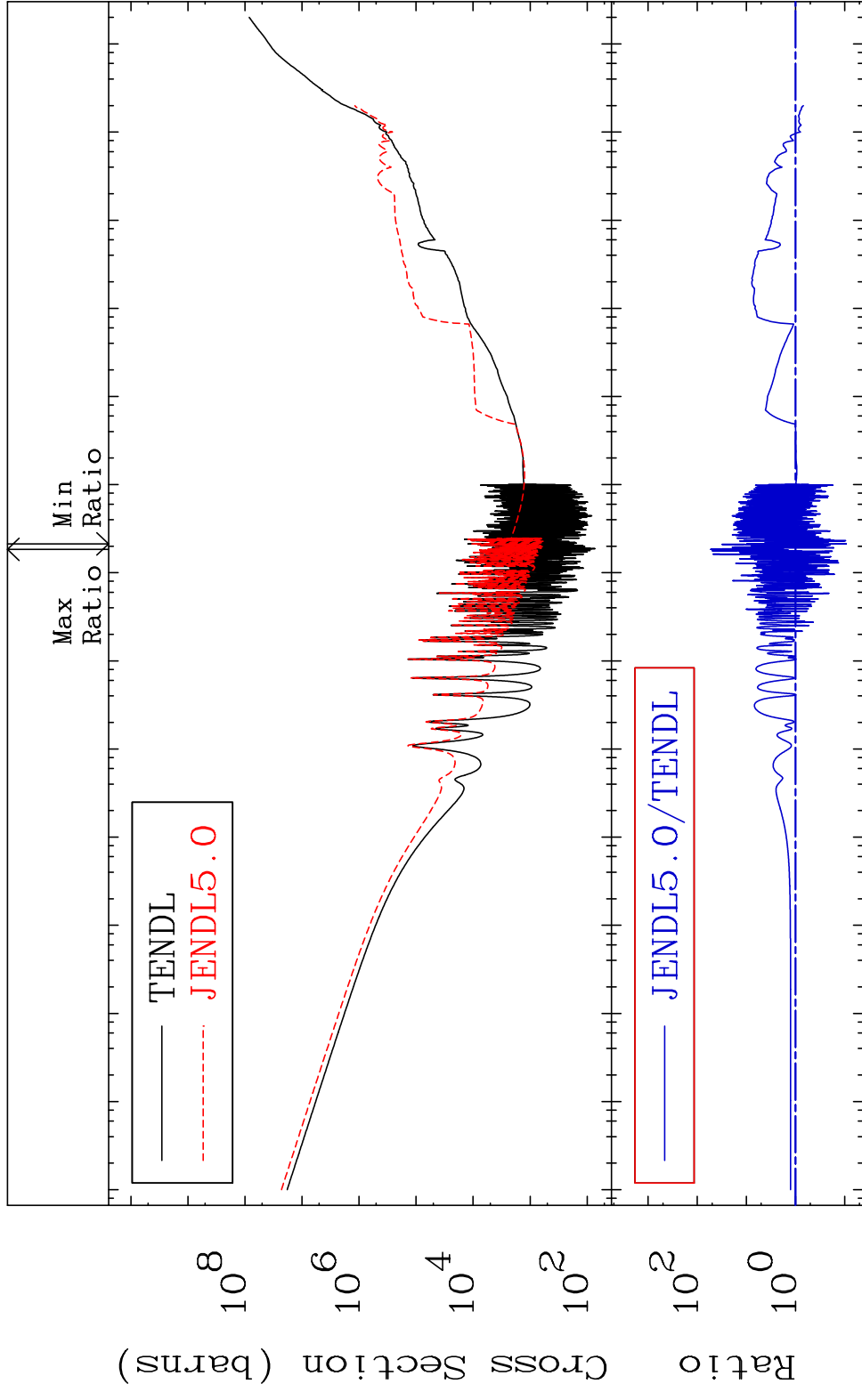
Incident Energy (eV)

62-Sm-151

MAT 6246 He-4 Production 62-Sm-151
 Cross Section -87.00 To 1627. %



MAT 6246 Kerma total (eV-barns) 62-Sm-151
 Cross Section -90.75 To 5228. %

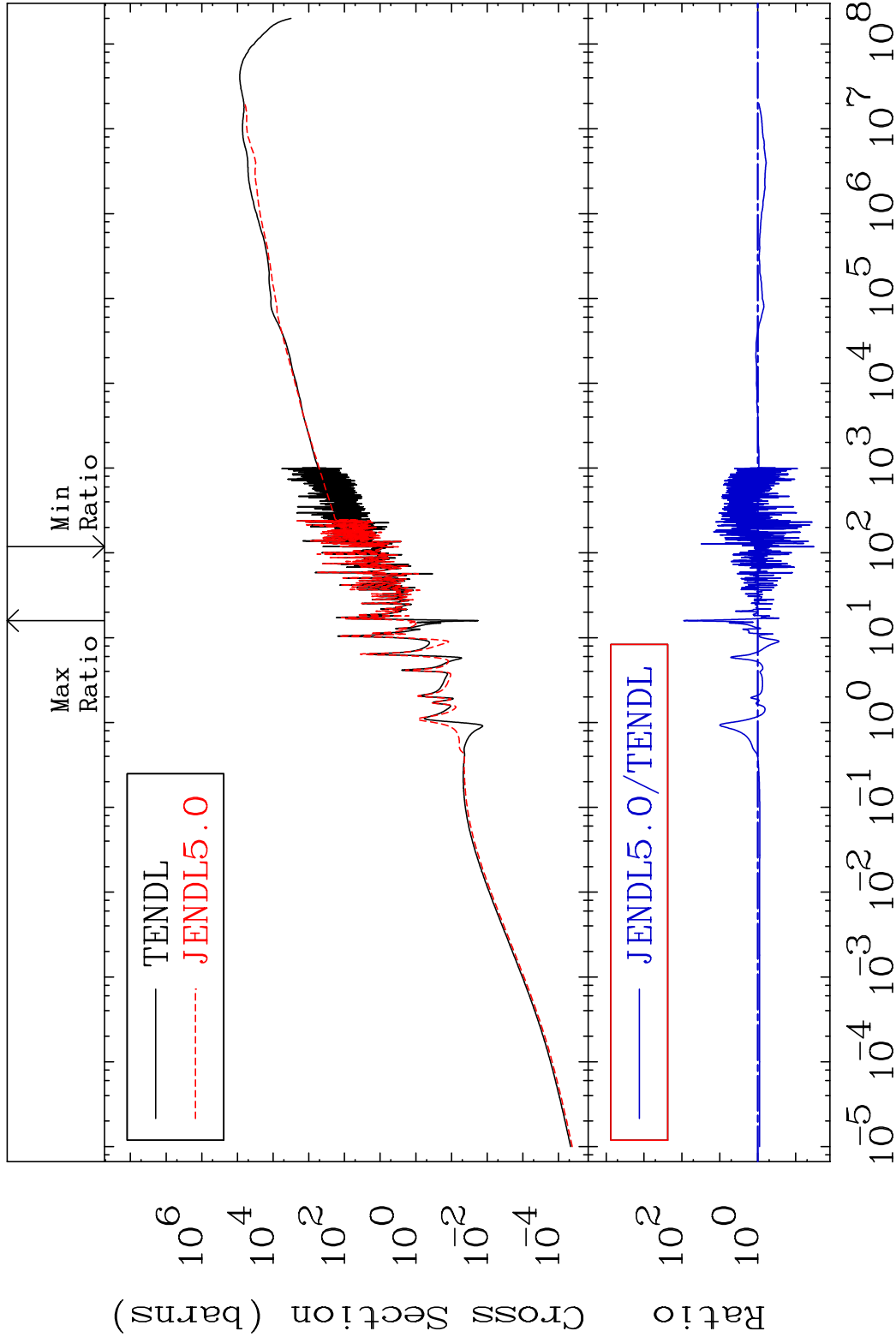


MAT 6246

Kerma elastic
Cross Section

62-Sm-151

-96.74 To 8907. %

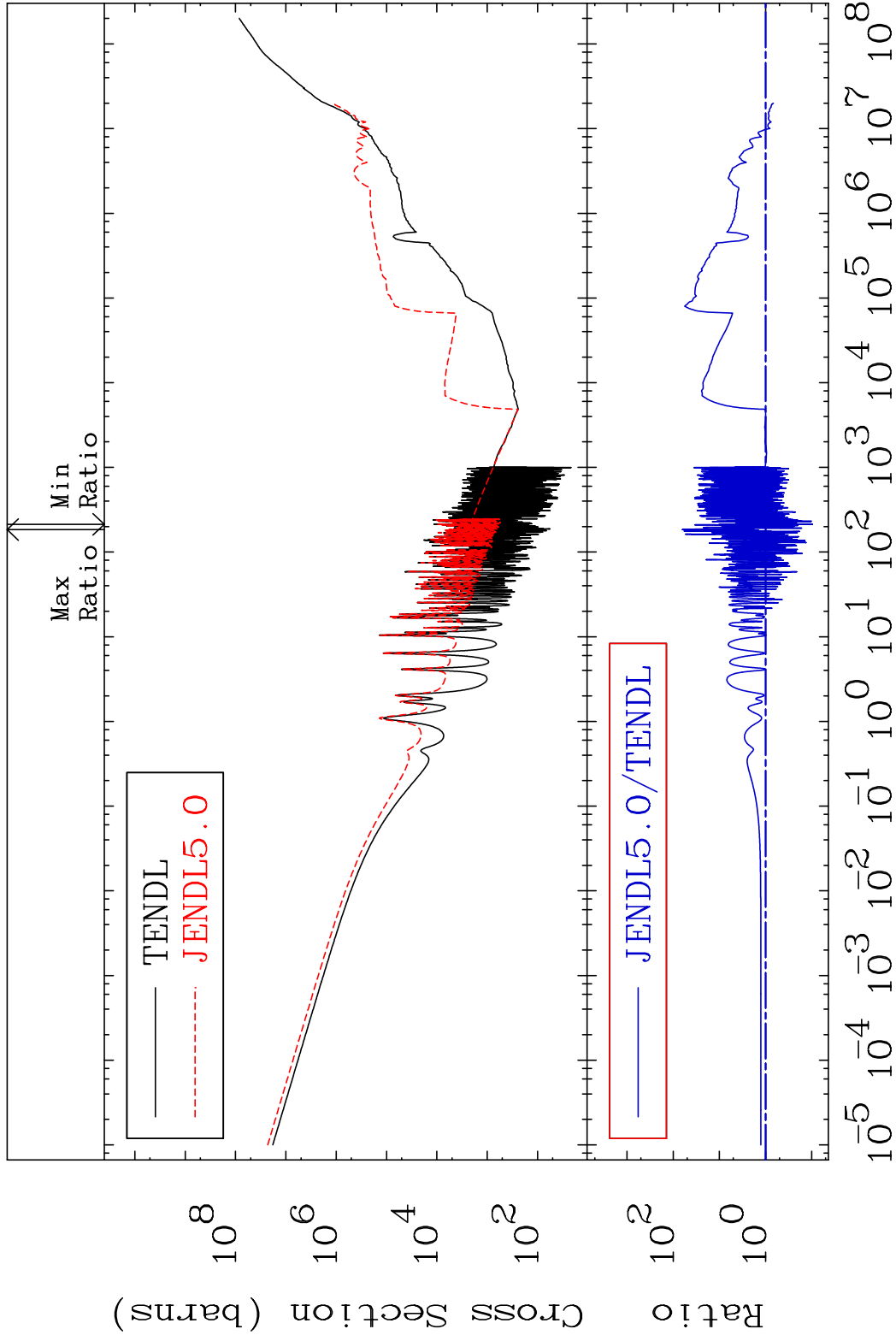


56

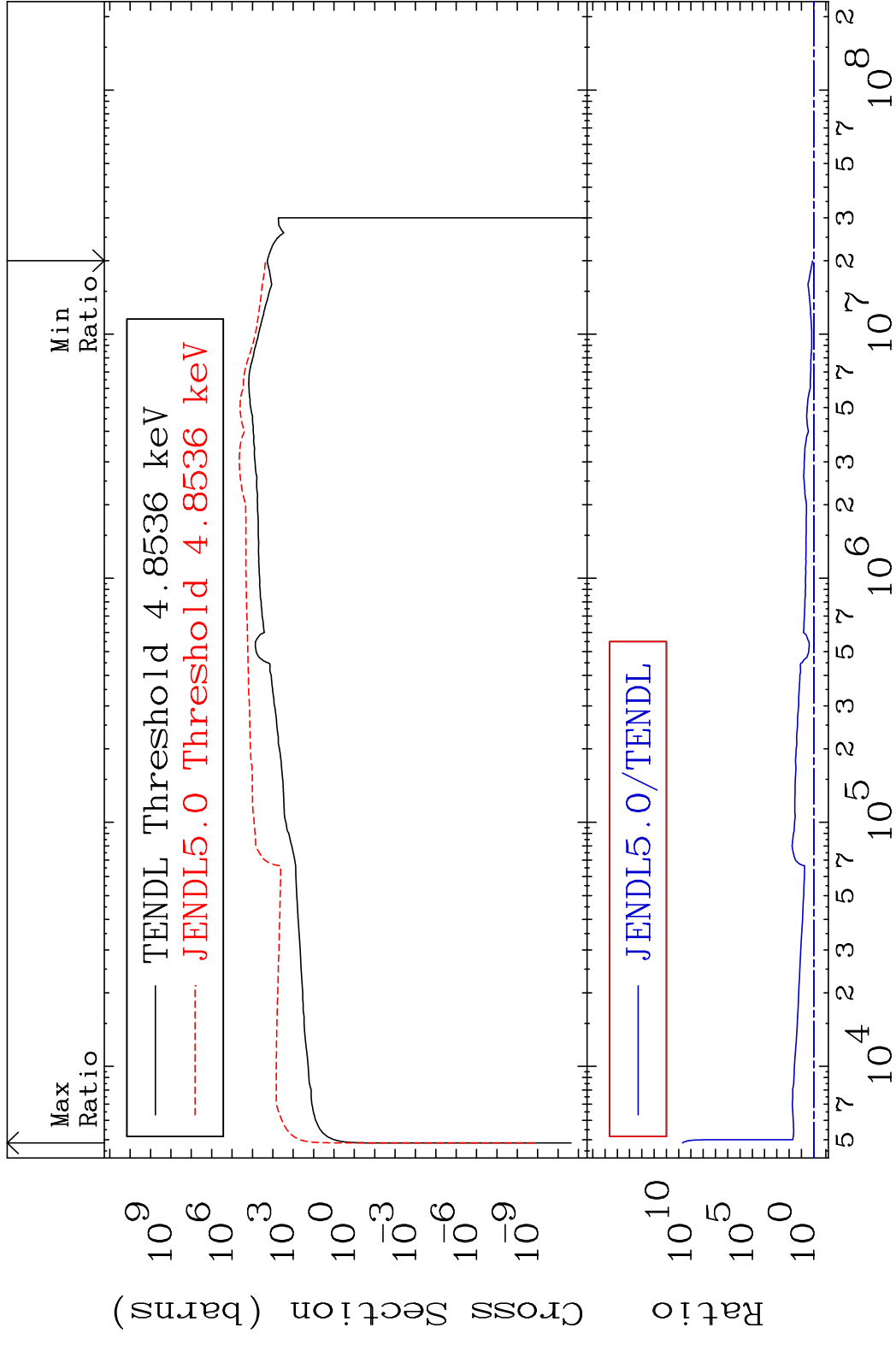
Incident Energy (eV)

62-Sm-151

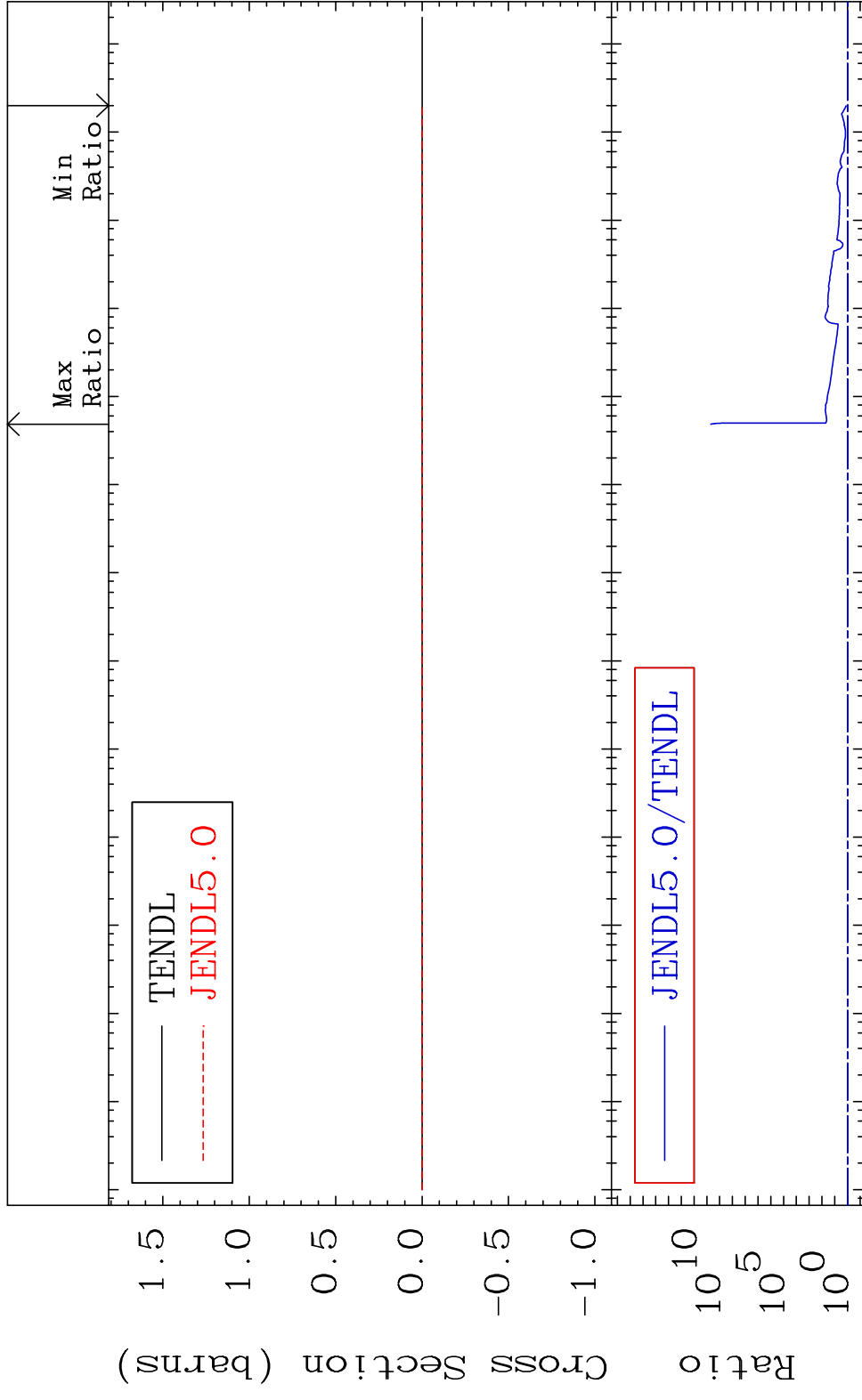
MAT 6246 Kerma non-elastic (all but mt2) 62-Sm-151
 Cross Section -90.41 To 6237. %



MAT 6246 Kerma inelastic (mt51-91) 62-Sm-151
 Cross Section 22.62 To 9999. %



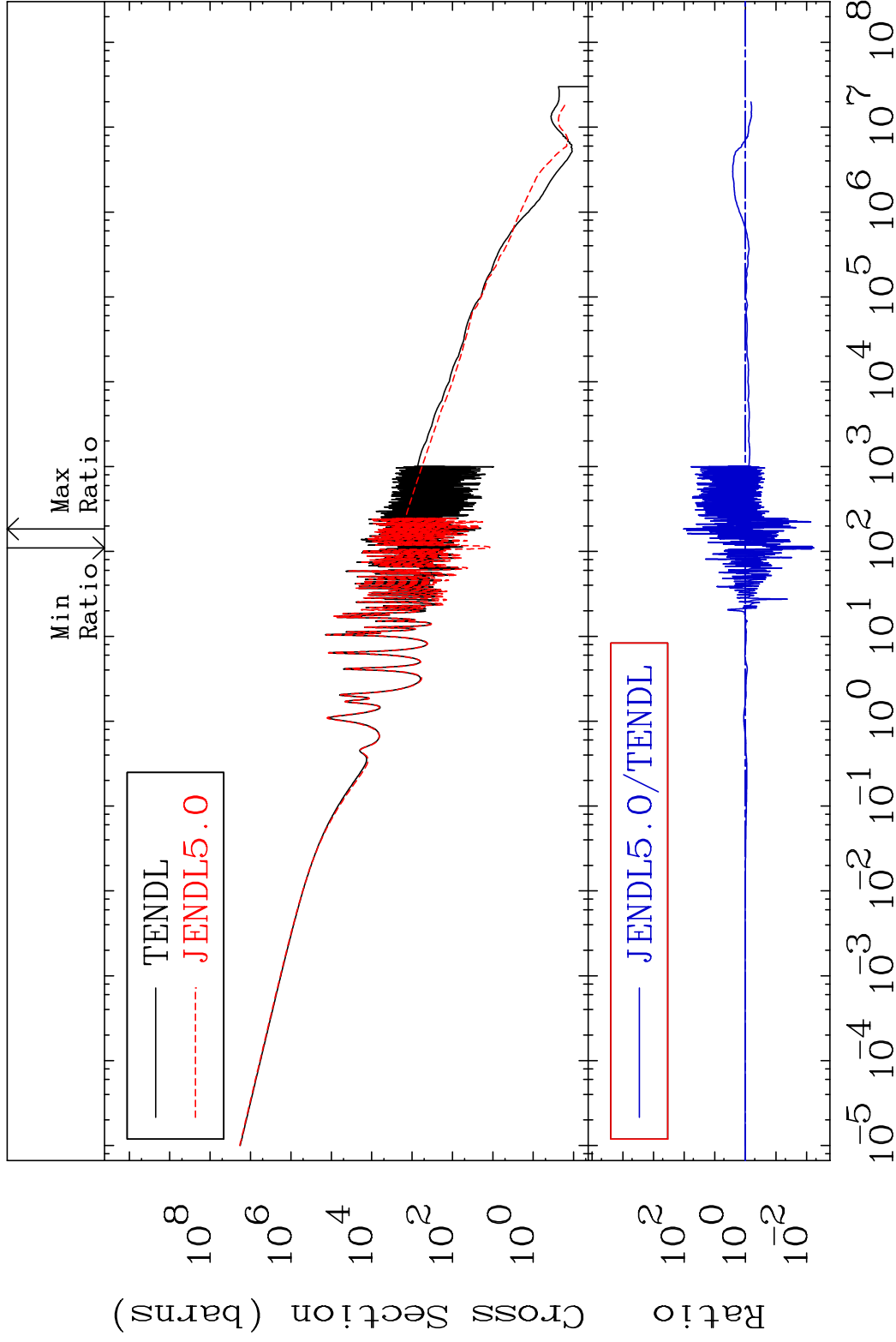
MAT 6246 Kerma fission (mt18 or mt19-20-21-38) 62-Sm-151
 Cross Section 22.62 To 9999. %



MAT 6246

Kerma capture (mt102) 62-Sm-151

Cross Section -99.43 To 9999. %

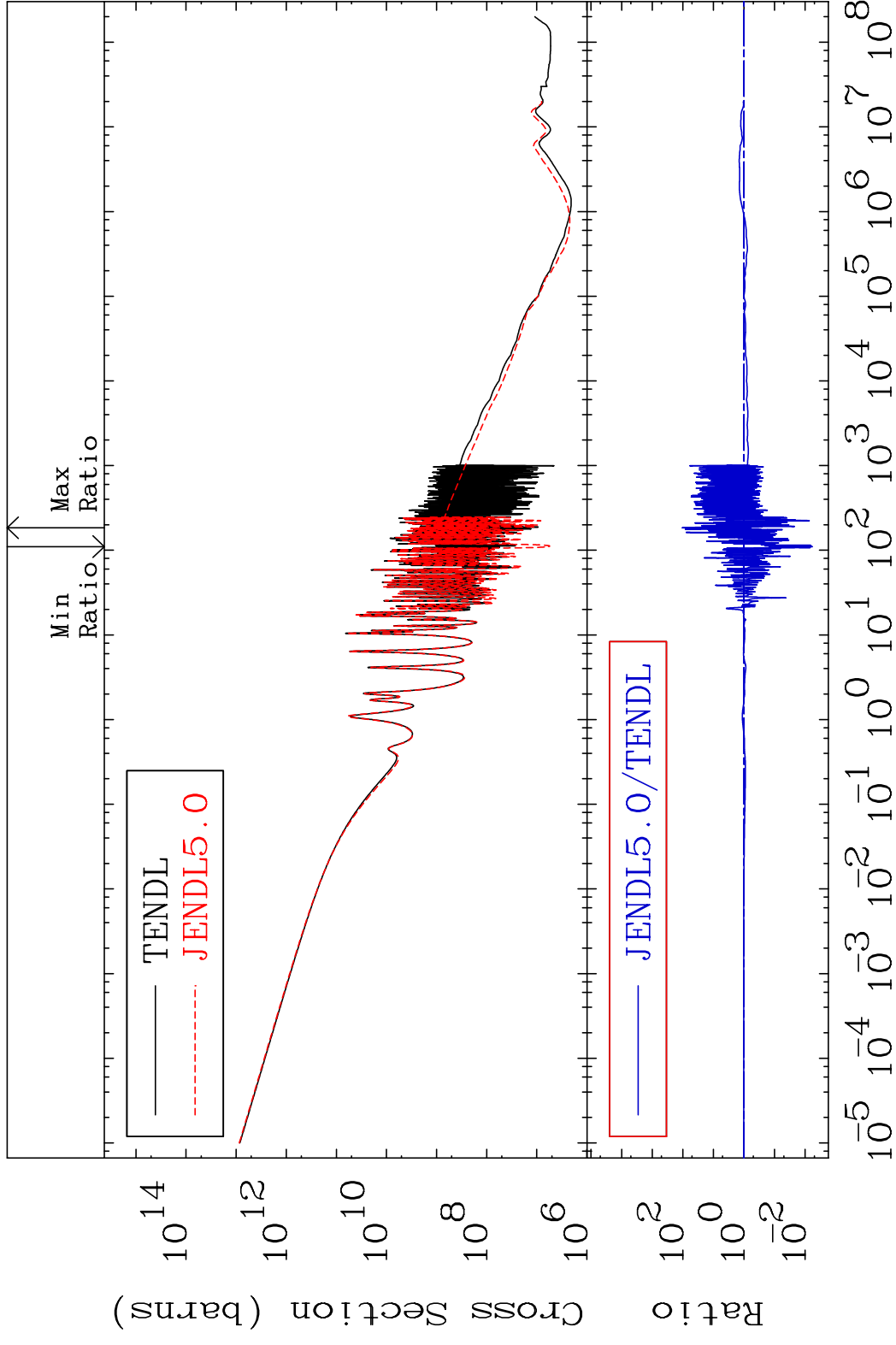


60

Incident Energy (eV)

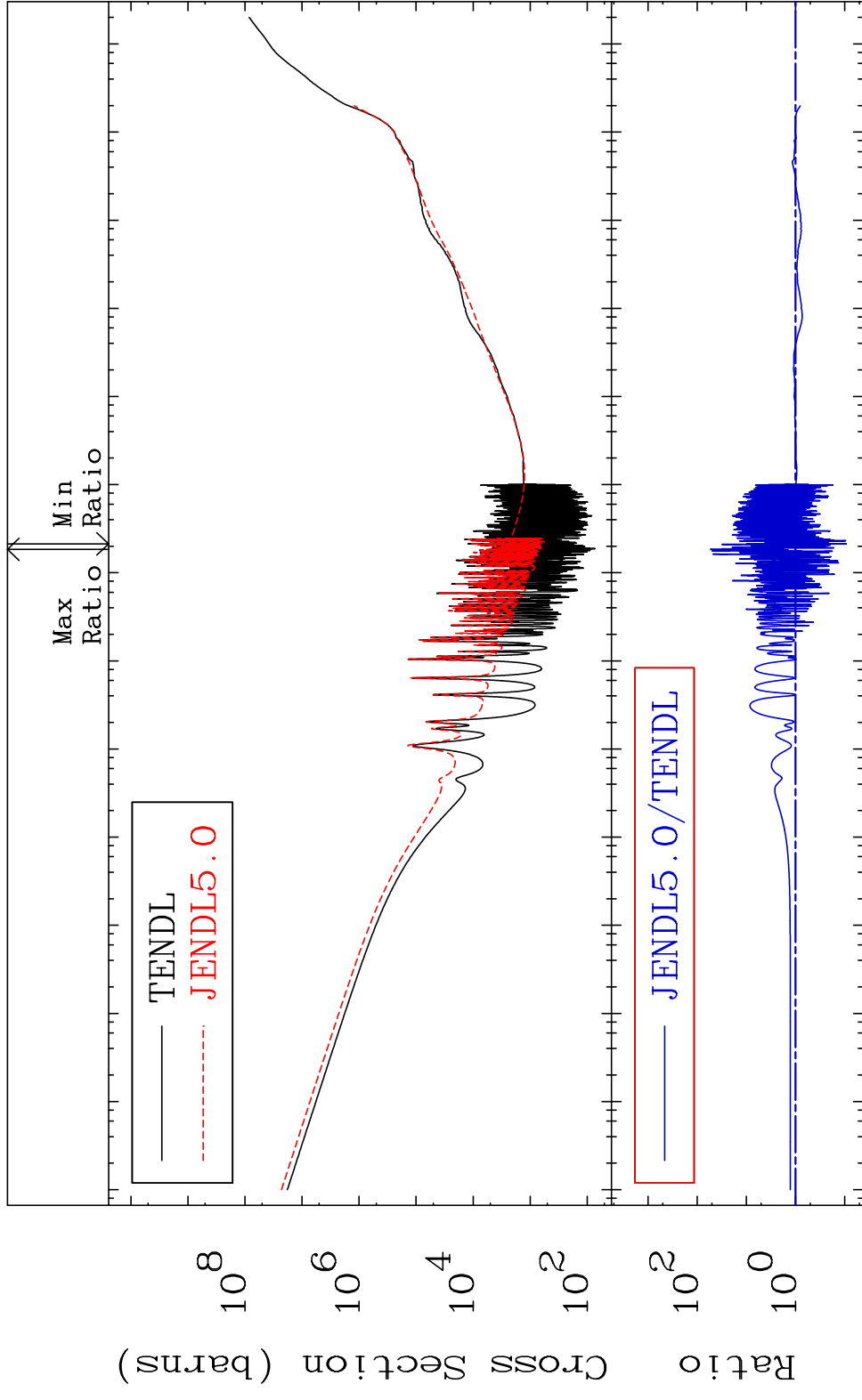
62-Sm-151

MAT 6246 Total photon (eV-barns) 62-Sm-151
 Cross Section -99.43 To 9999. %



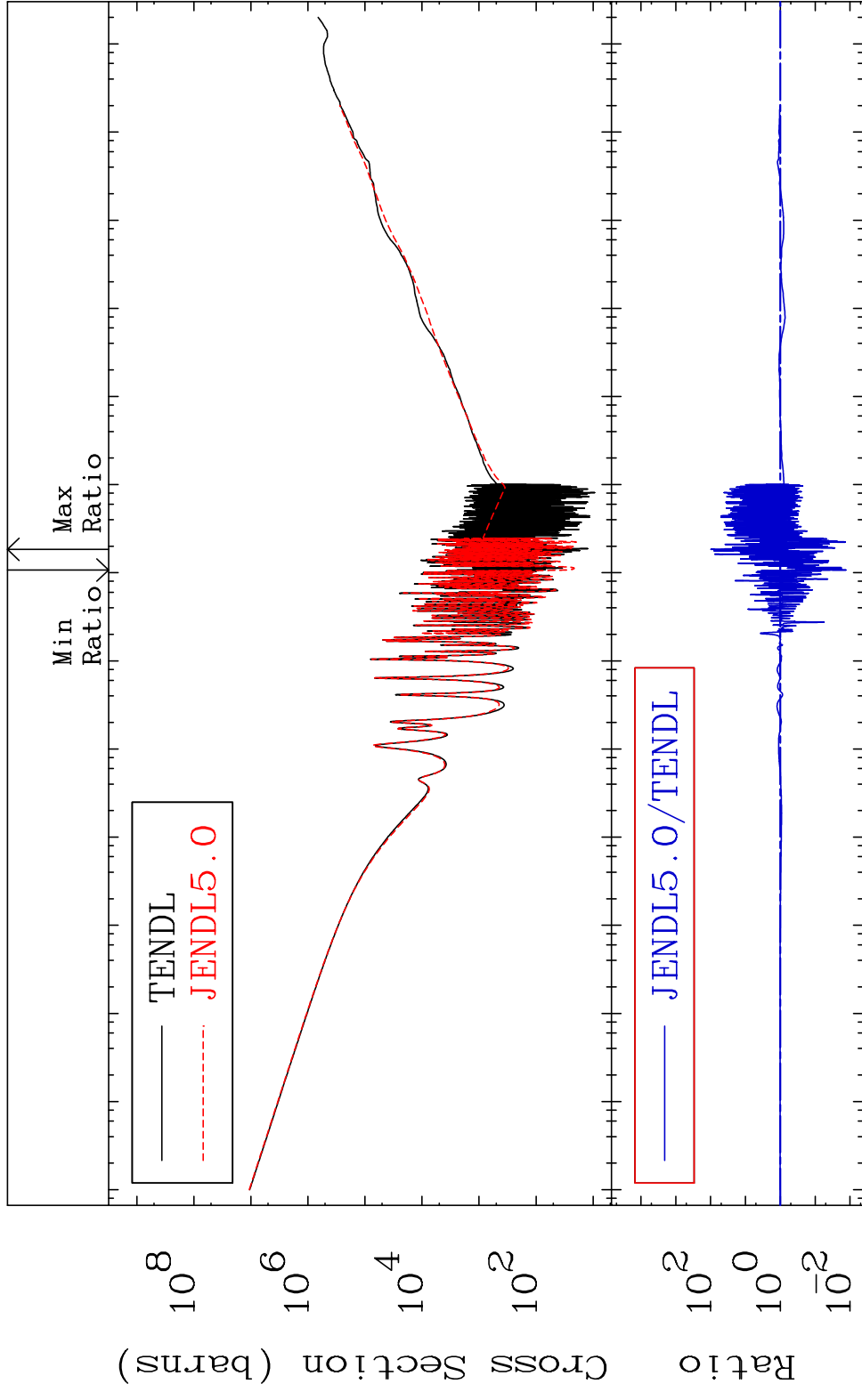
61 Incident Energy (eV) 62-Sm-151

MAT 6246 Total kinematic kerma (high limit) 62-Sm-151
 Cross Section -90.75 To 5217. %



62 Incident Energy (eV) 62-Sm-151

MAT 6246 Dpa total (eV-barns) 62-Sm-151
 Cross Section -98.72 To 9822. %



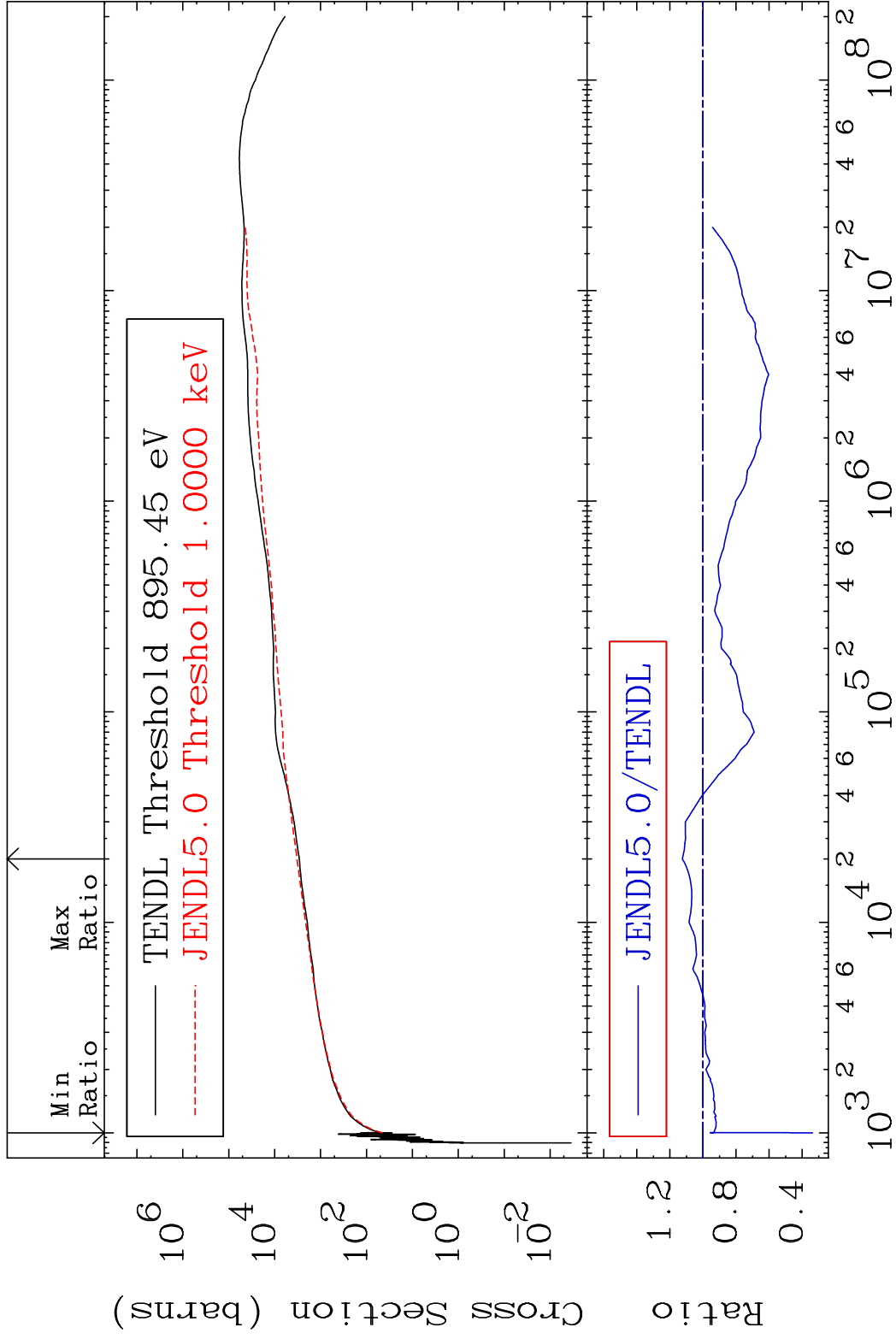
63 Incident Energy (eV) 62-Sm-151

MAT 6246

Dpa elastic (mt2)

62-Sm-151

Cross Section -66.26 To 12.48 %

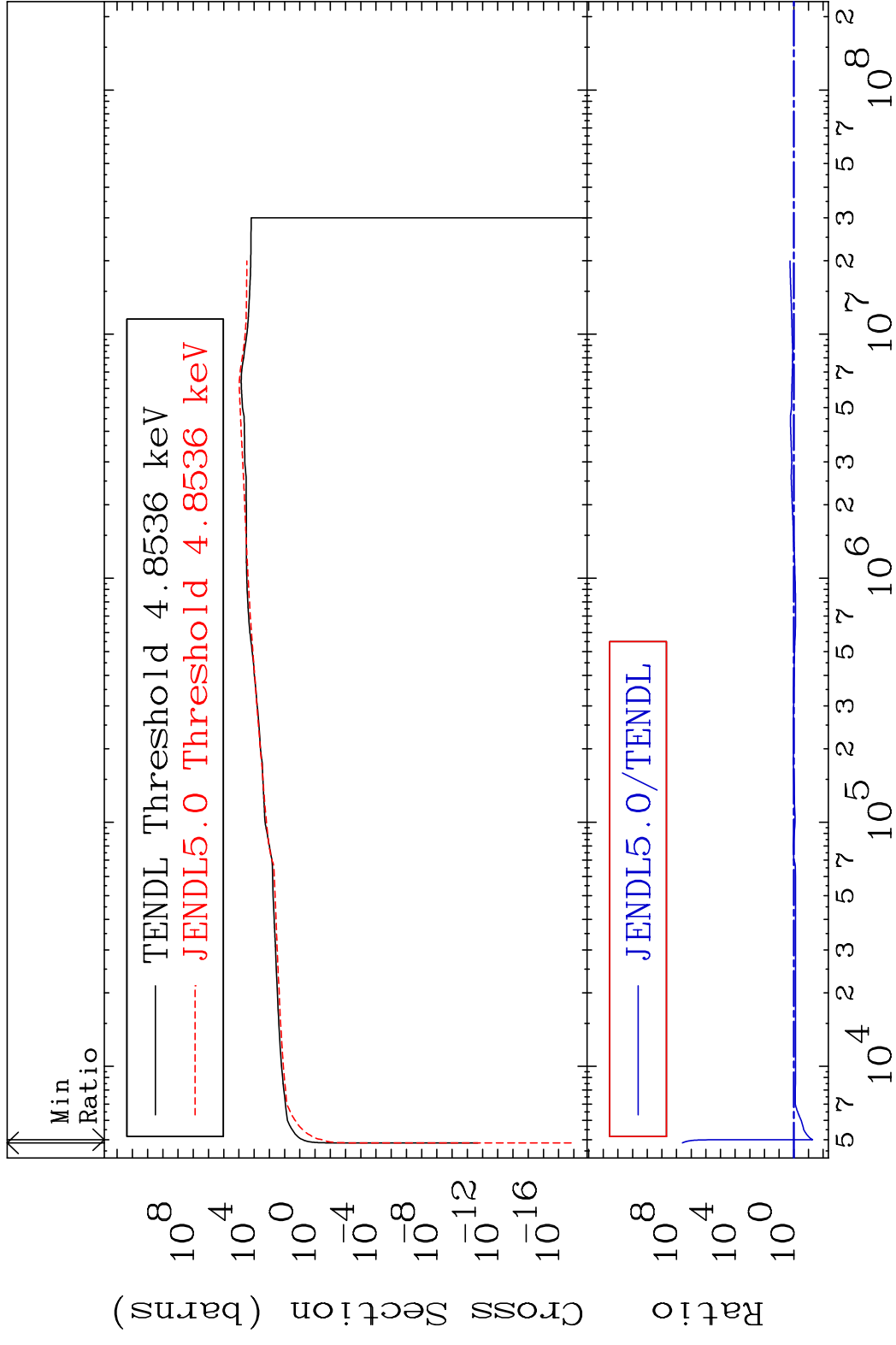


64

Incident Energy (eV)

62-Sm-151

MAT 6246 Dpa inelastic (mt51-91) 62-Sm-151
 Cross Section -94.76 To 9999. %



MAT 6246 Dpa disappearance (mt102 -120) 62-Sm-151
 Cross Section -98.72 To 9822. %

