

Program Complot
(Version 2021-1)

by

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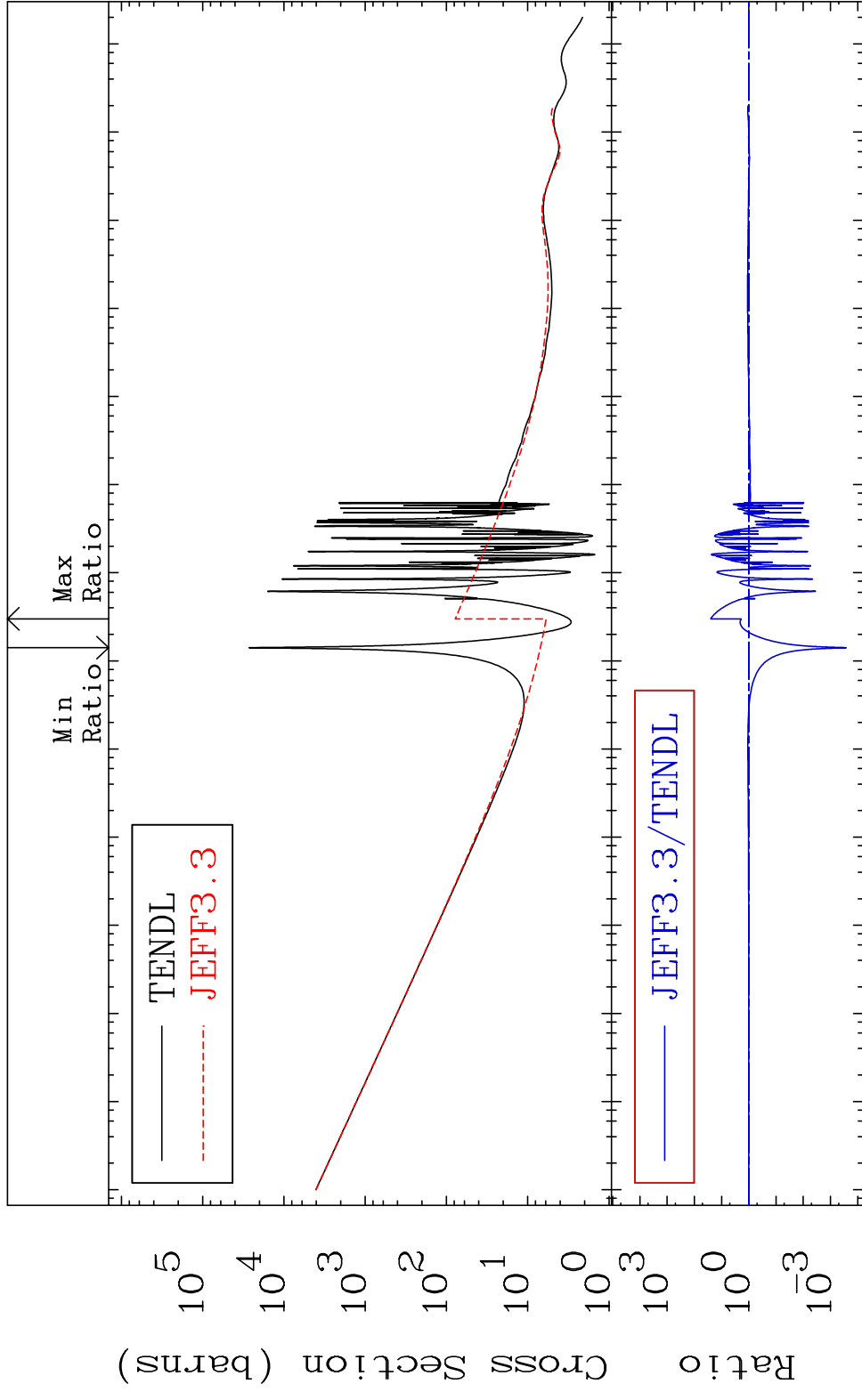
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Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5337

Total Cross Section
53-I -131
-99.97 To 2402. %

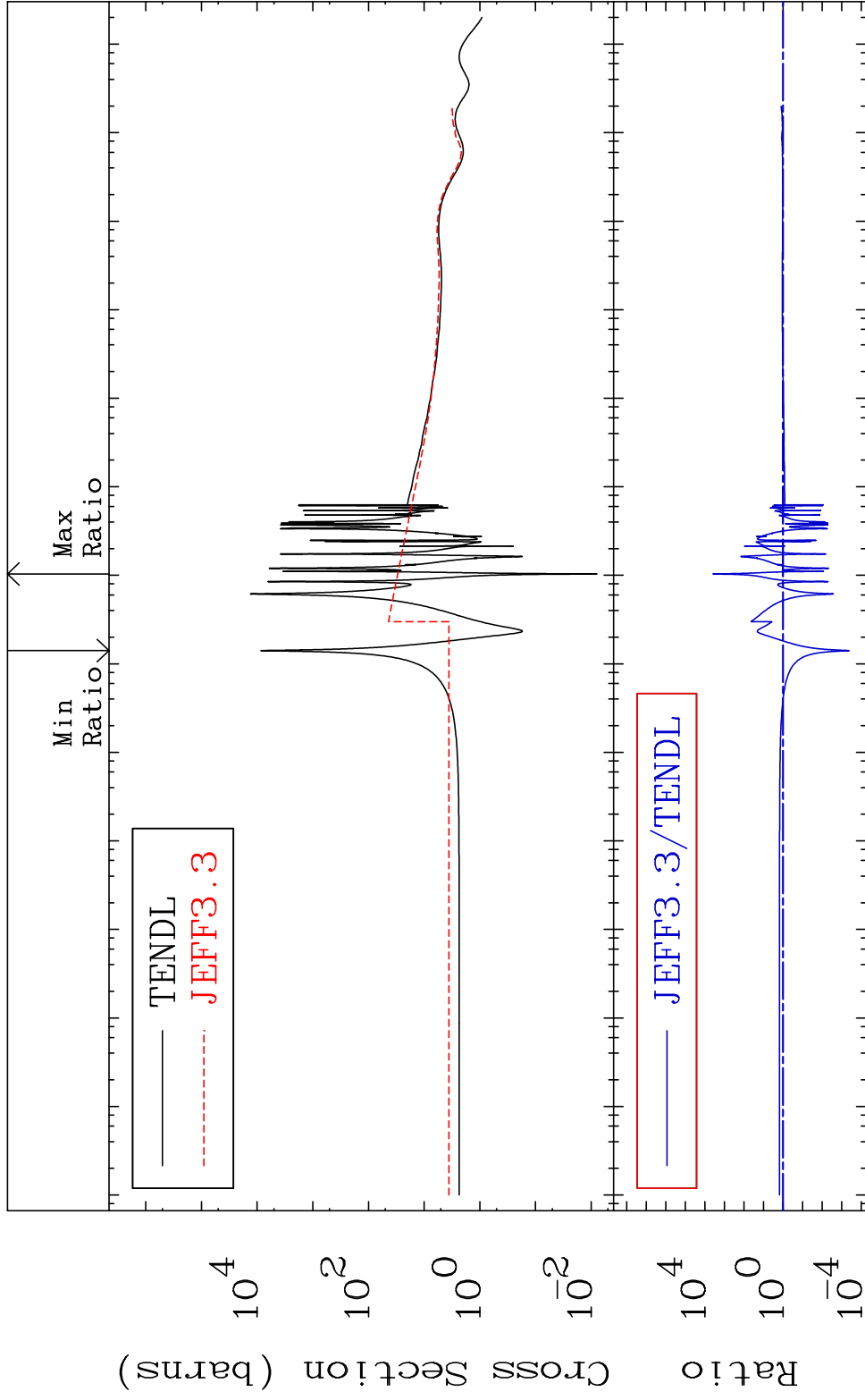


1 Incident Energy (eV) 53-I -131

MAT 5337

Elastic 53-I -131

Cross Section -99.96 To 9999. %



2

Incident Energy (eV)

53-I -131

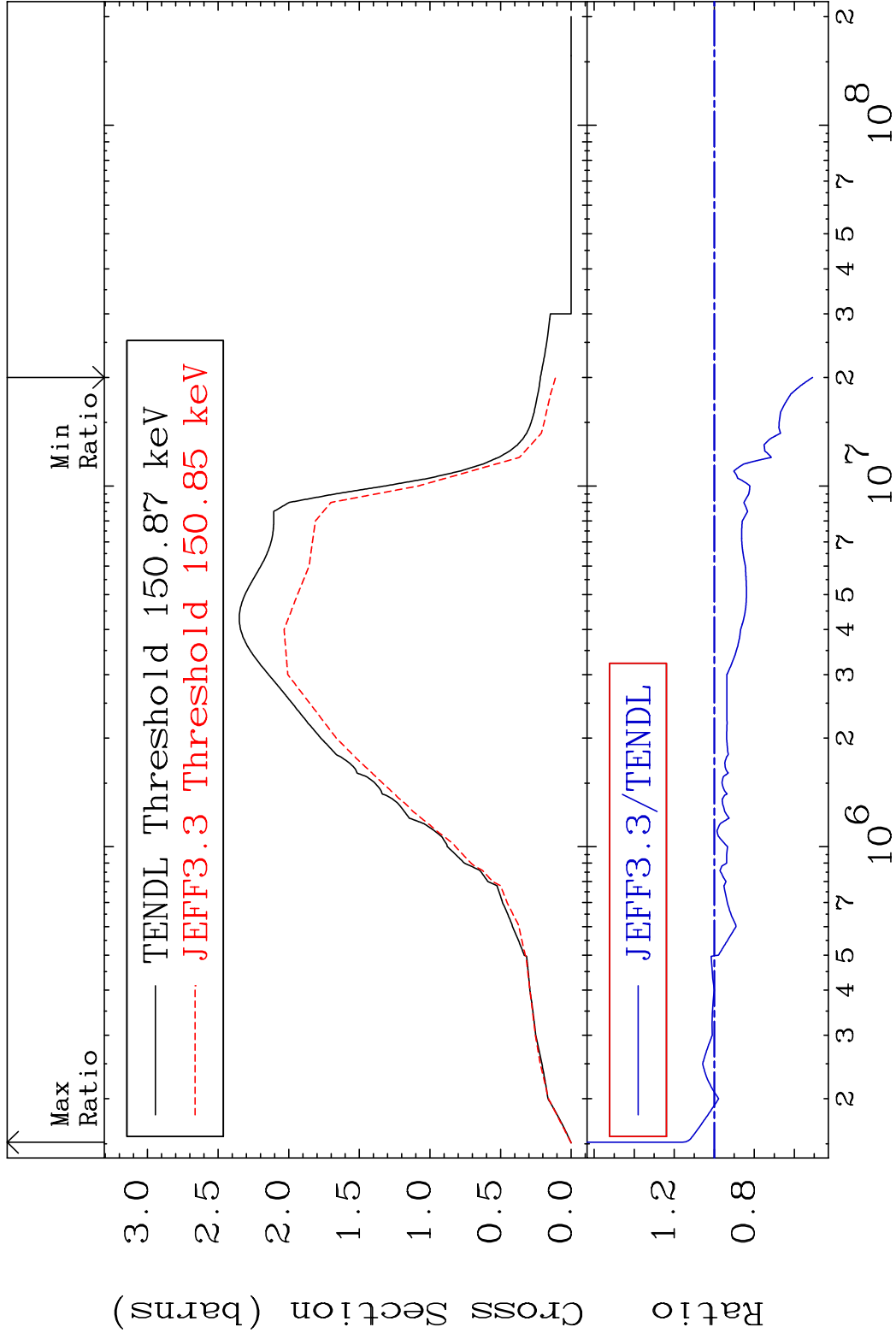
MAT 5337

Inelastic

53-I -131

Cross Section

-49.13 To 15.94 %



3

Incident Energy (eV)

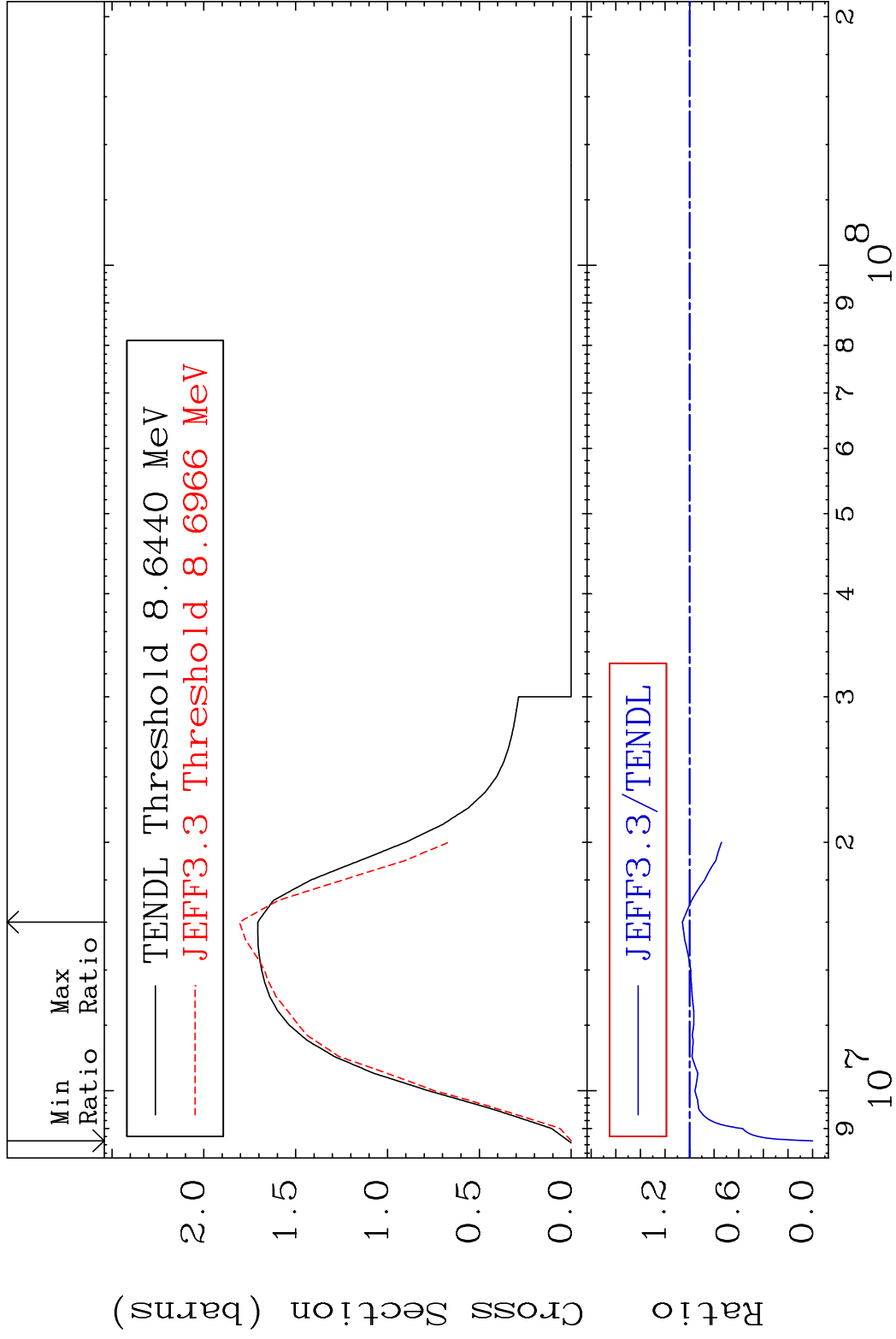
53-I -131

MAT 5337

(n,2n)

53-I -131

Cross Section -100.0 To 5.873 %



4

Incident Energy (eV)

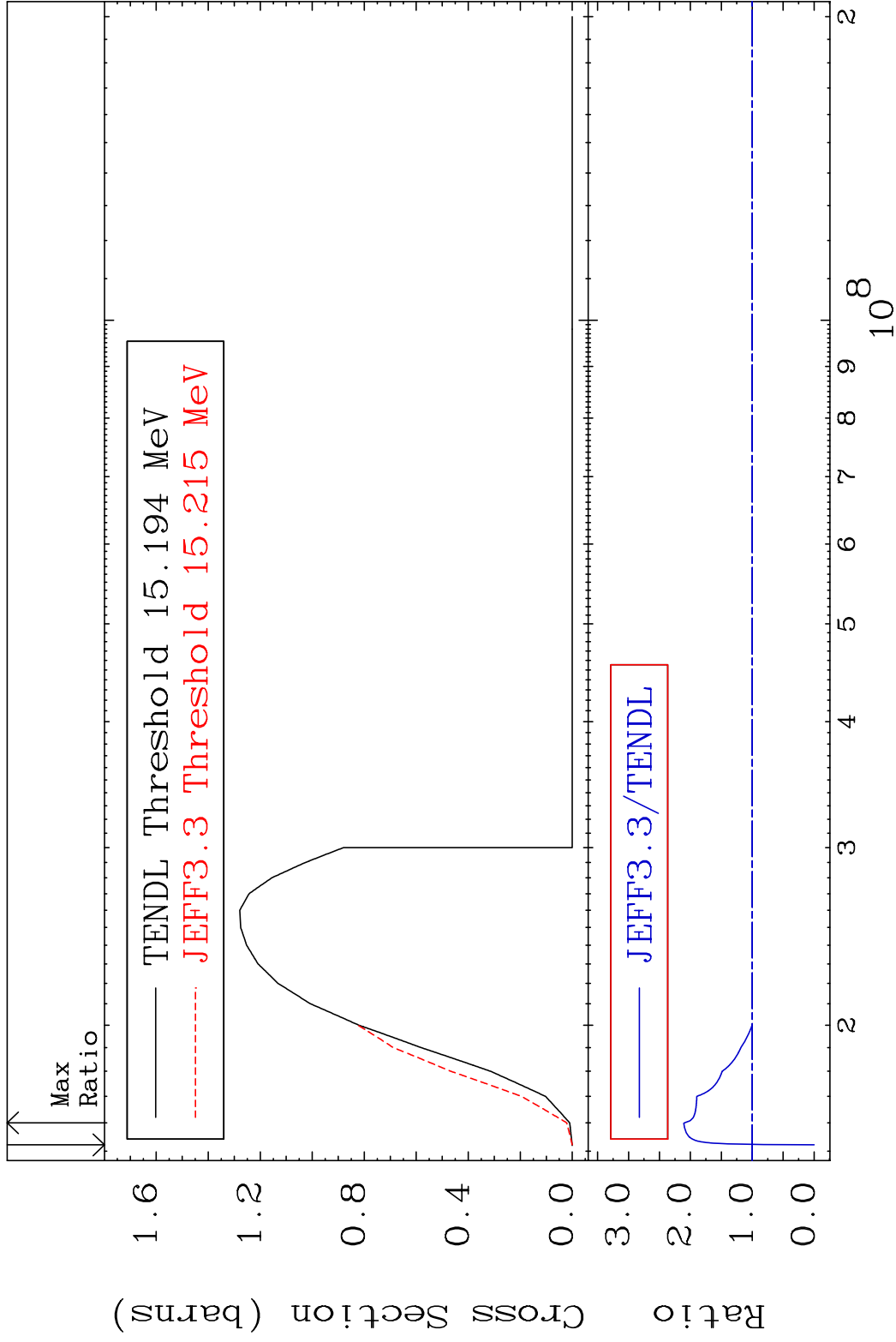
53-I -131

MAT 5337

(n,3n)

53-I -131

Cross Section -100.0 To 110.9 %



5

Incident Energy (eV)

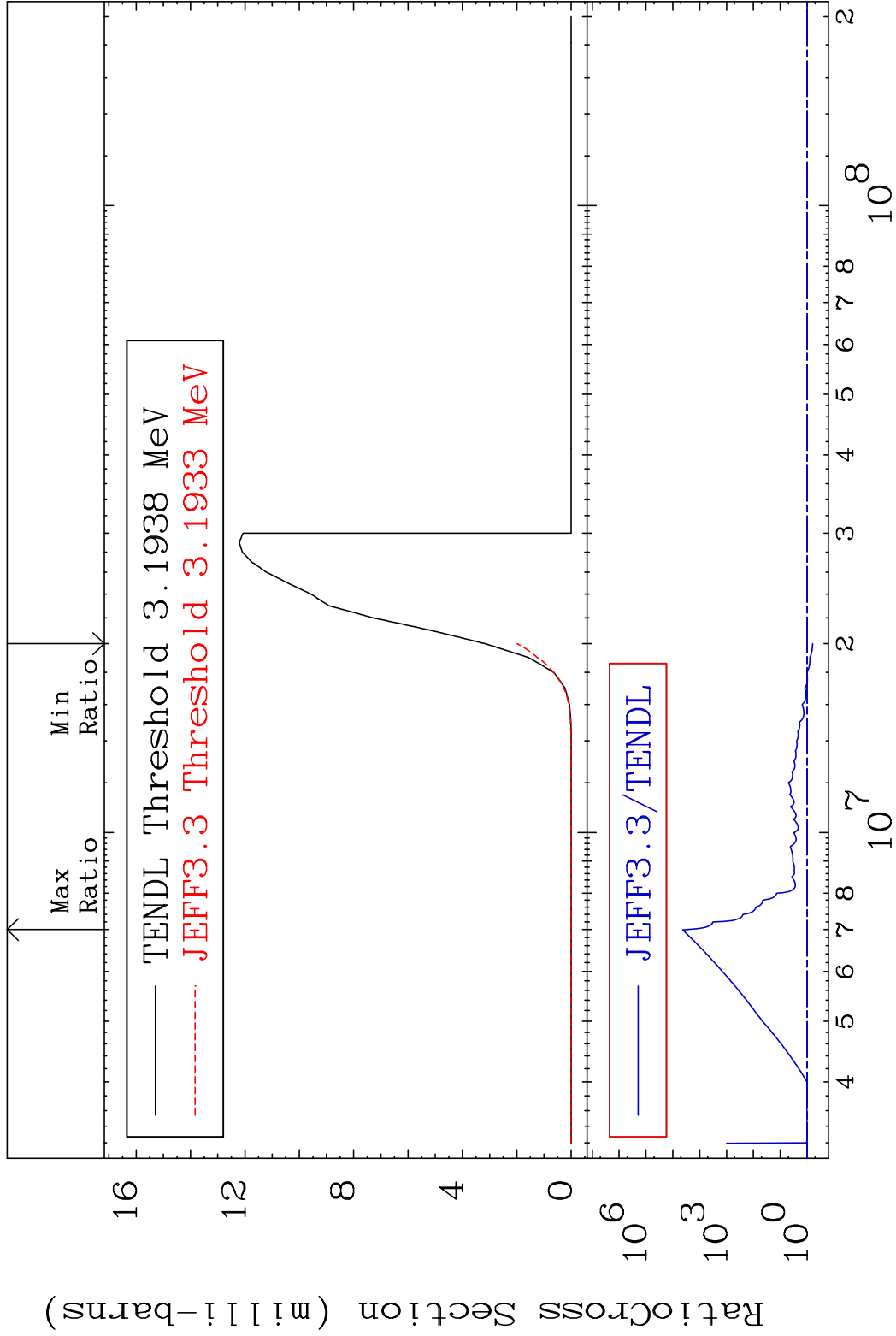
53-I -131

MAT 5337

(n, n') α

53-I -131

Cross Section -37.22 To 9999. %



6

Incident Energy (eV)

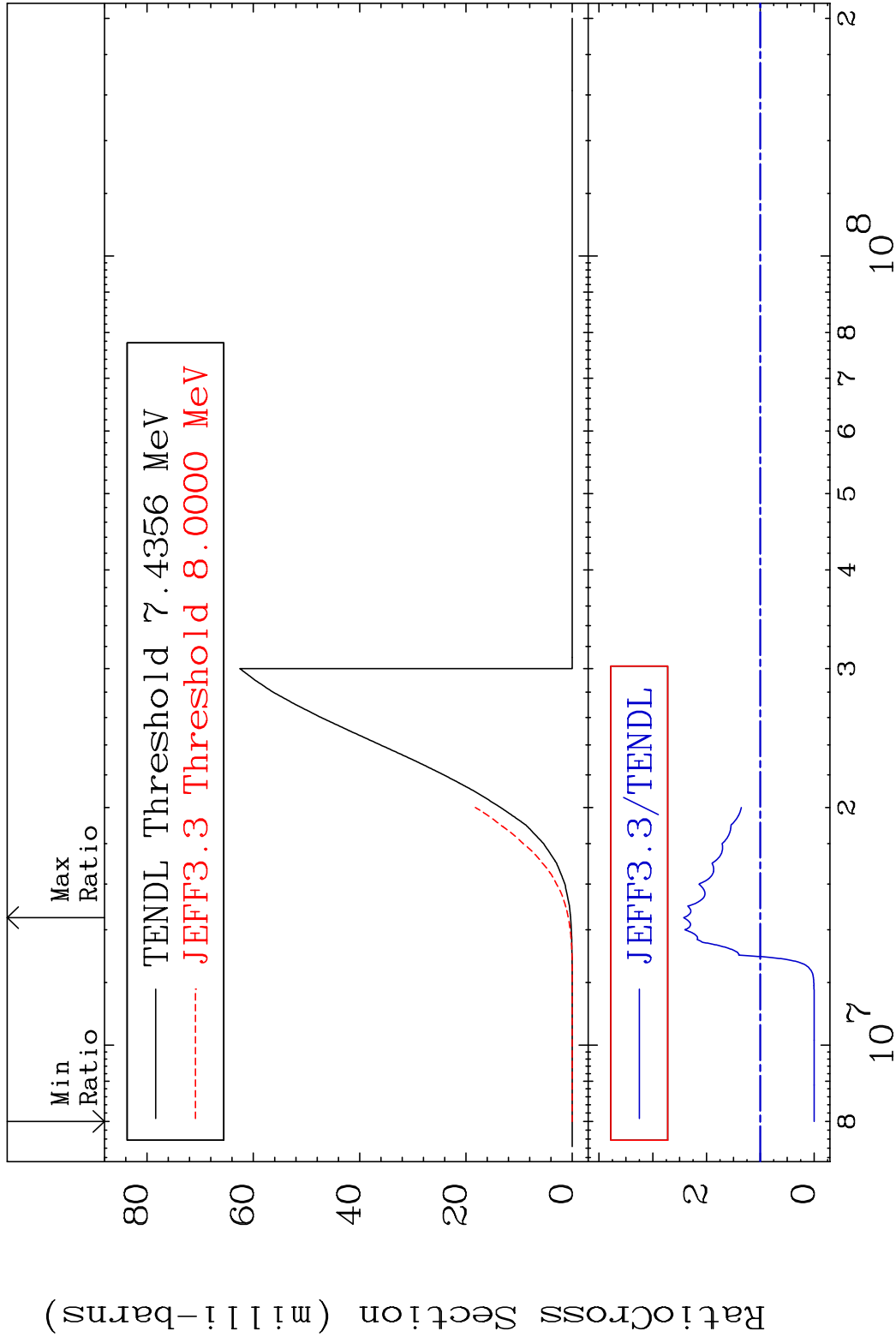
53-I -131

MAT 5337

(n, n') p

53-I -131

Cross Section -100.0 To 142.6 %



7

Incident Energy (eV)

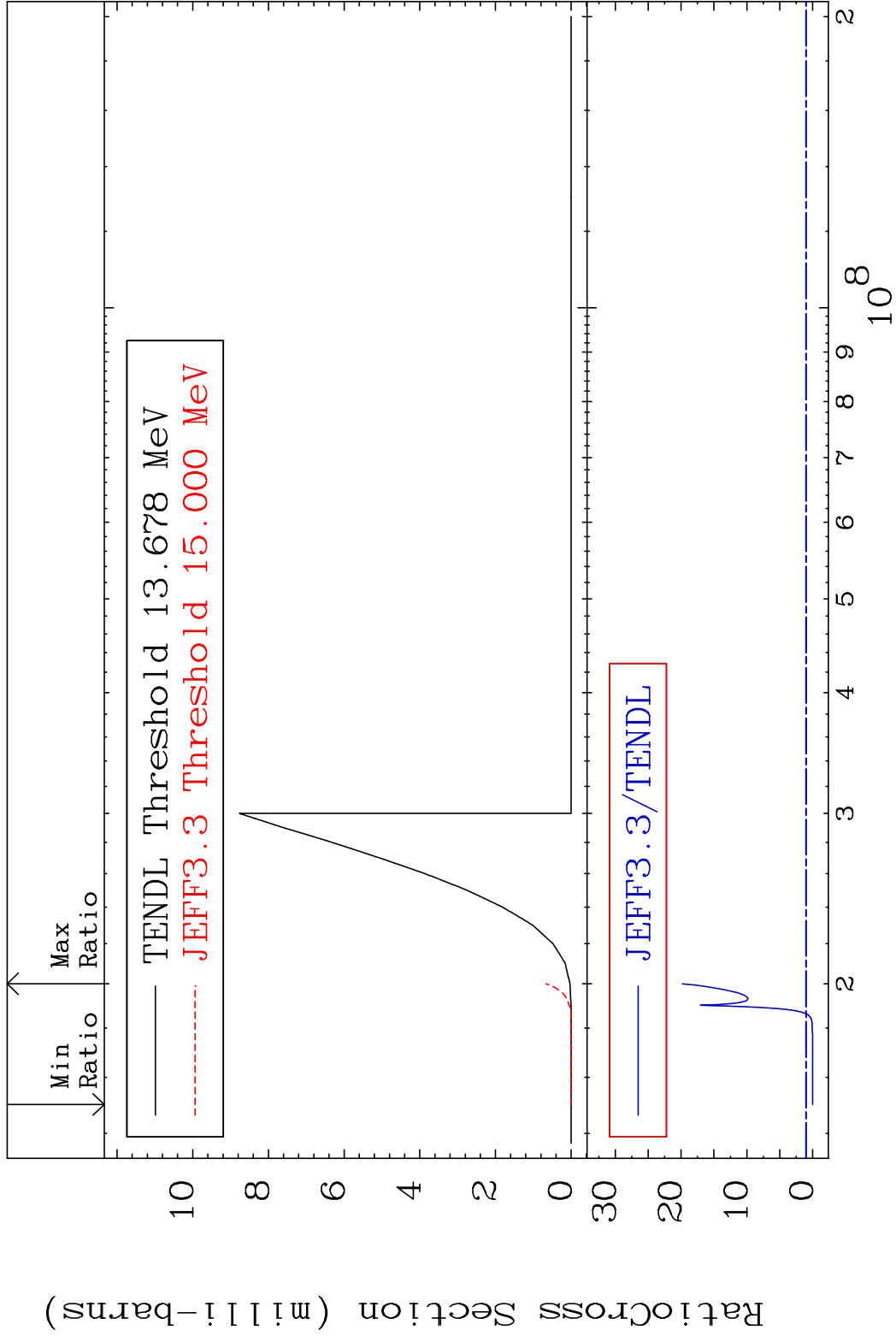
53-I -131

MAT 5337

(n, n') d

53-I -131

Cross Section -100.0 To 1881. %

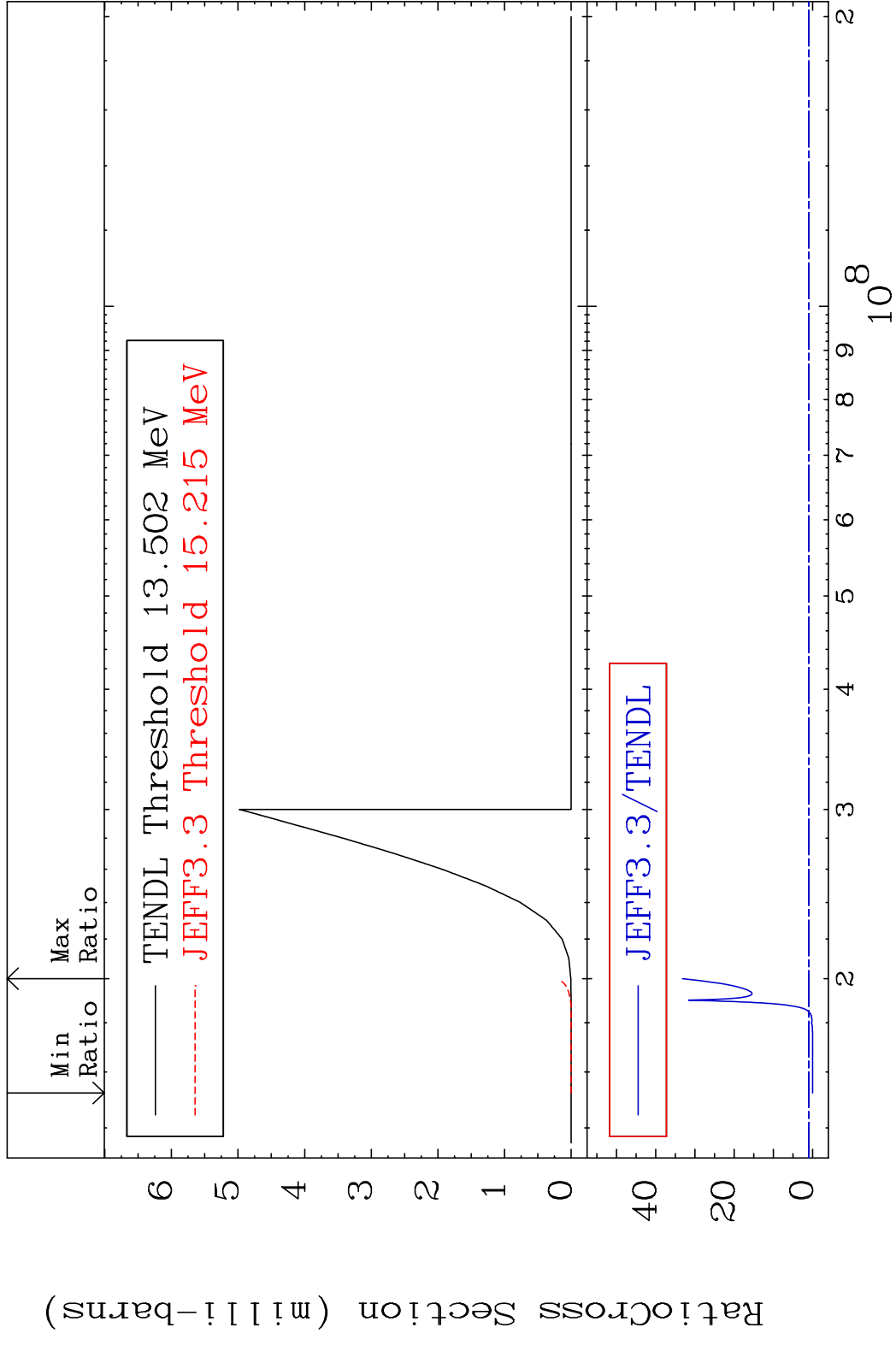


MAT 5337

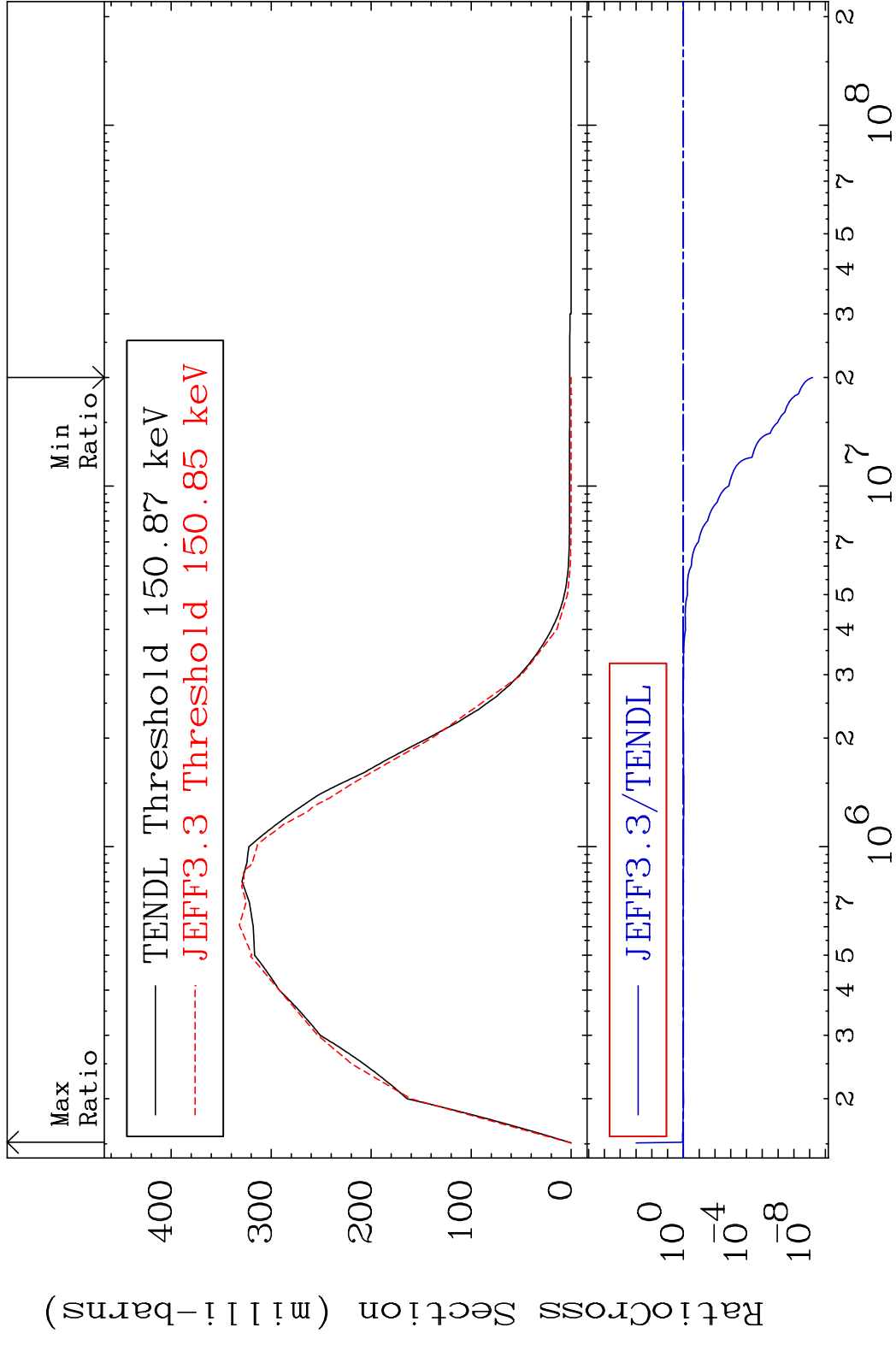
(n, n') t

53-I -131

Cross Section -100.0 To 3219. %

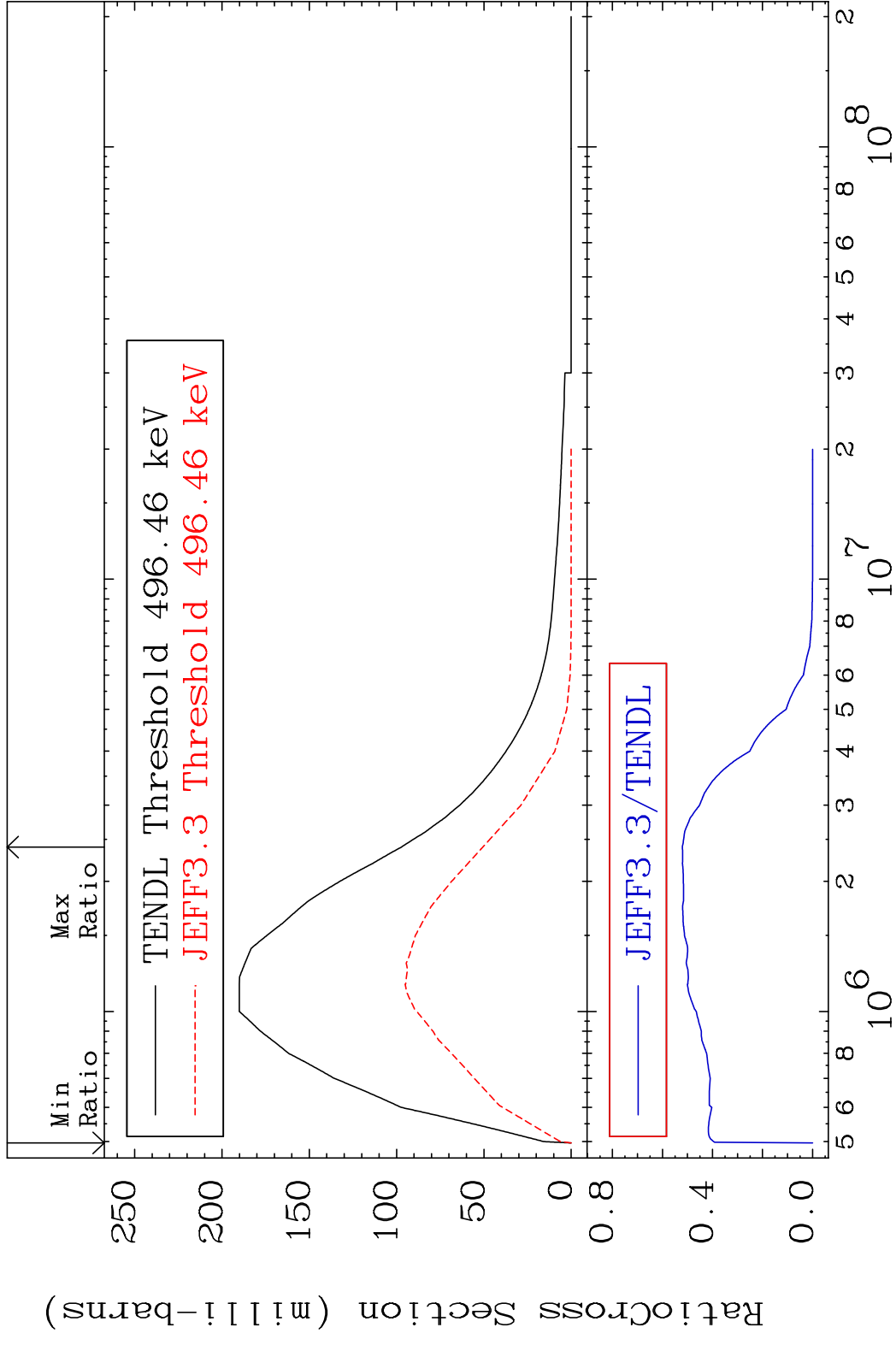


MAT 5337 MT= 51 (n,n') Level 53-I -131
 Cross Section -100.0 To 15.94 %

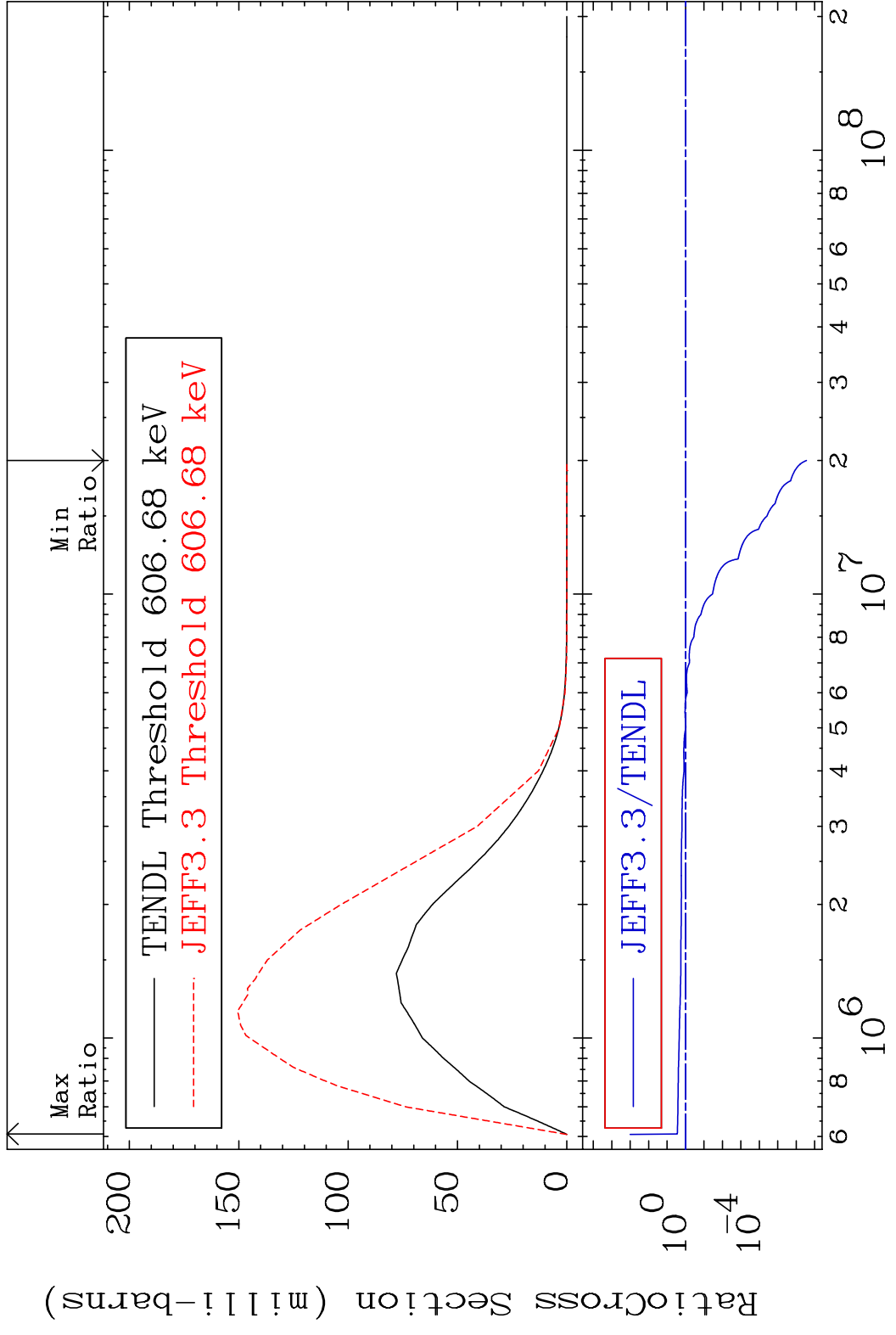


10 Incident Energy (eV) 53-I -131

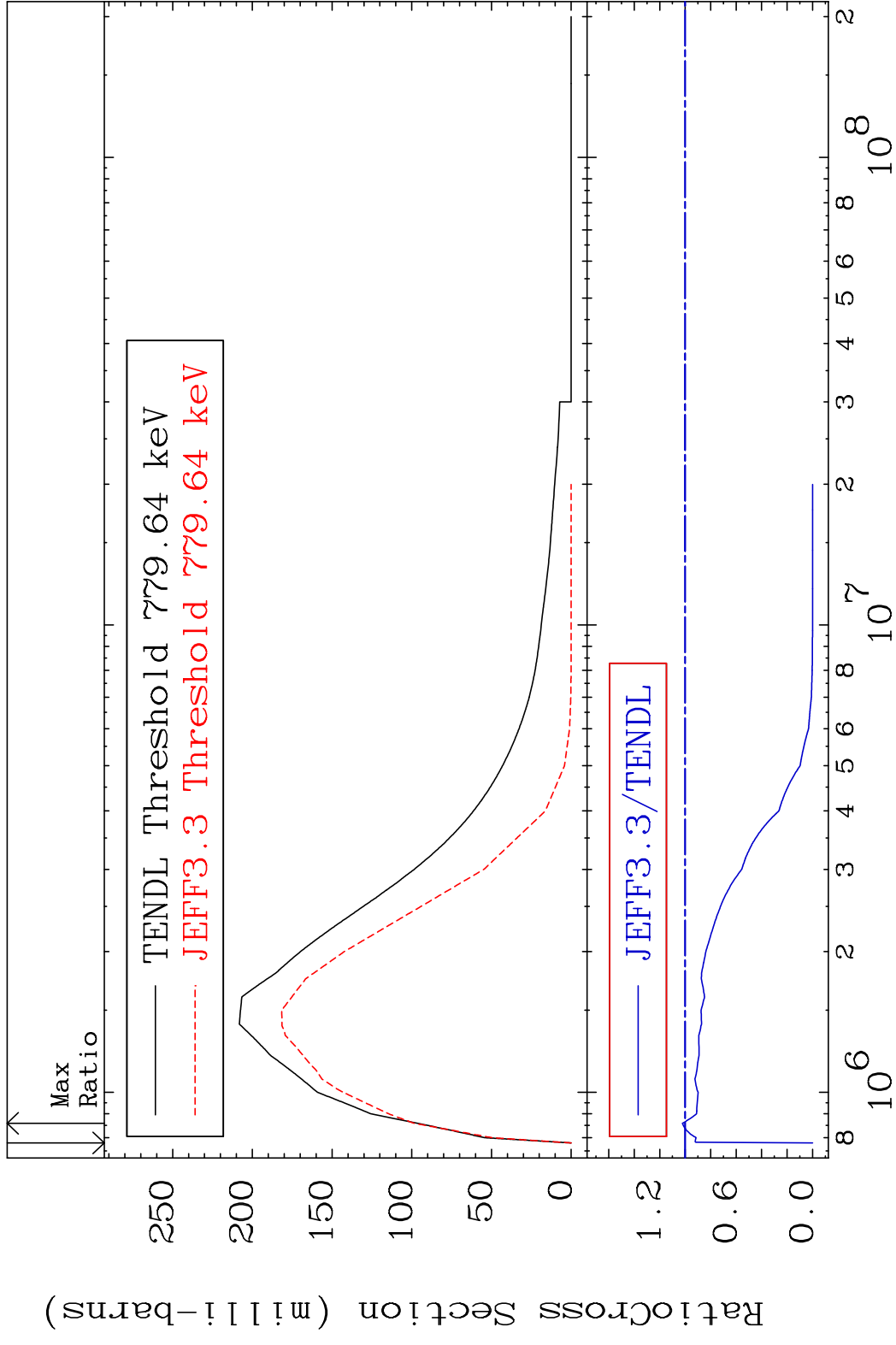
MAT 5337 MT= 52 (n, n') Level 53-I -131
 Cross Section -100.0 To -47.94%



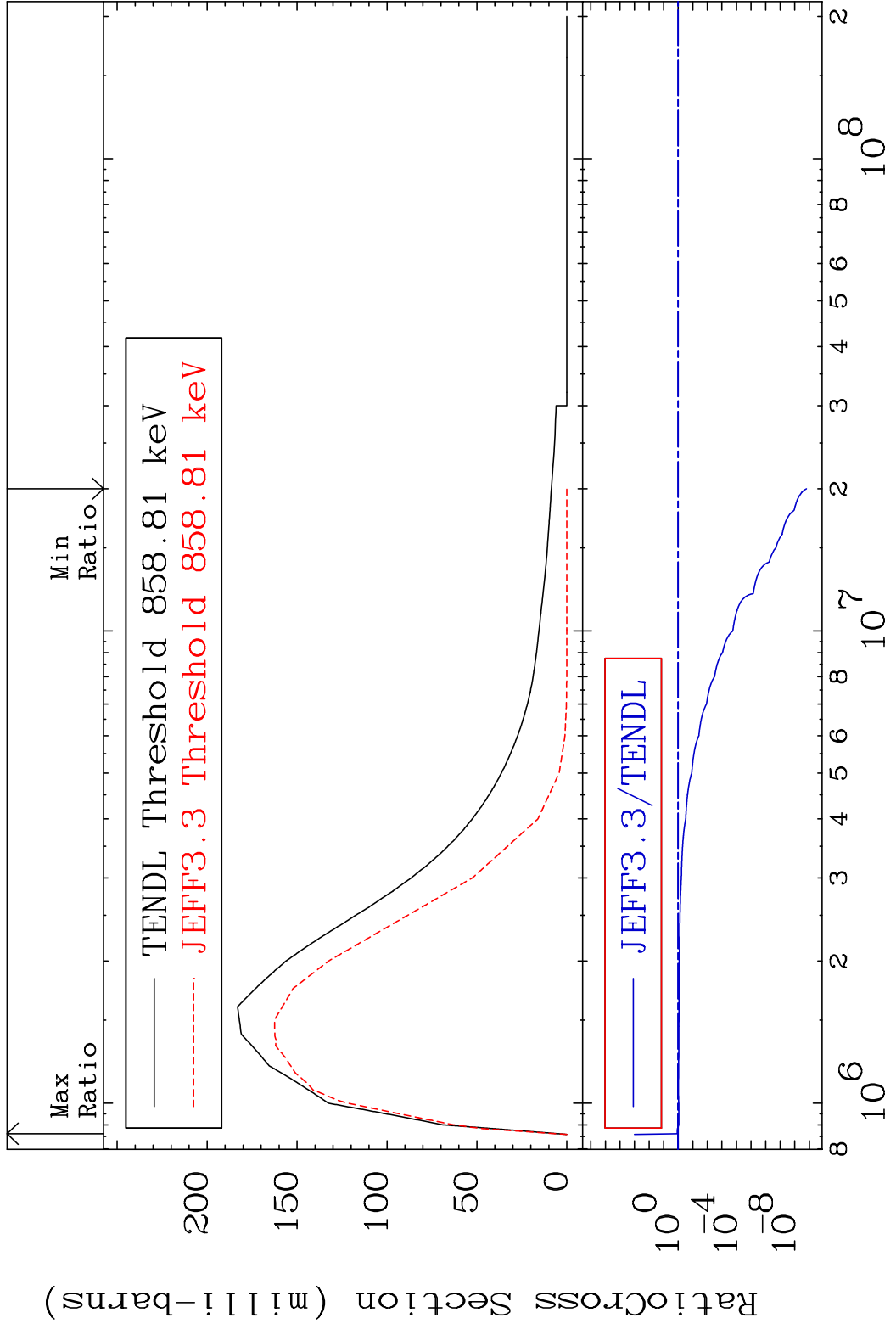
MAT 5337 MT= 53 (n, n') Level 53-I -131
 Cross Section -100.0 To 184.0 %



MAT 5337 MT= 54 (n,n') Level 53-I -131
 Cross Section -100.0 To 2.236 %

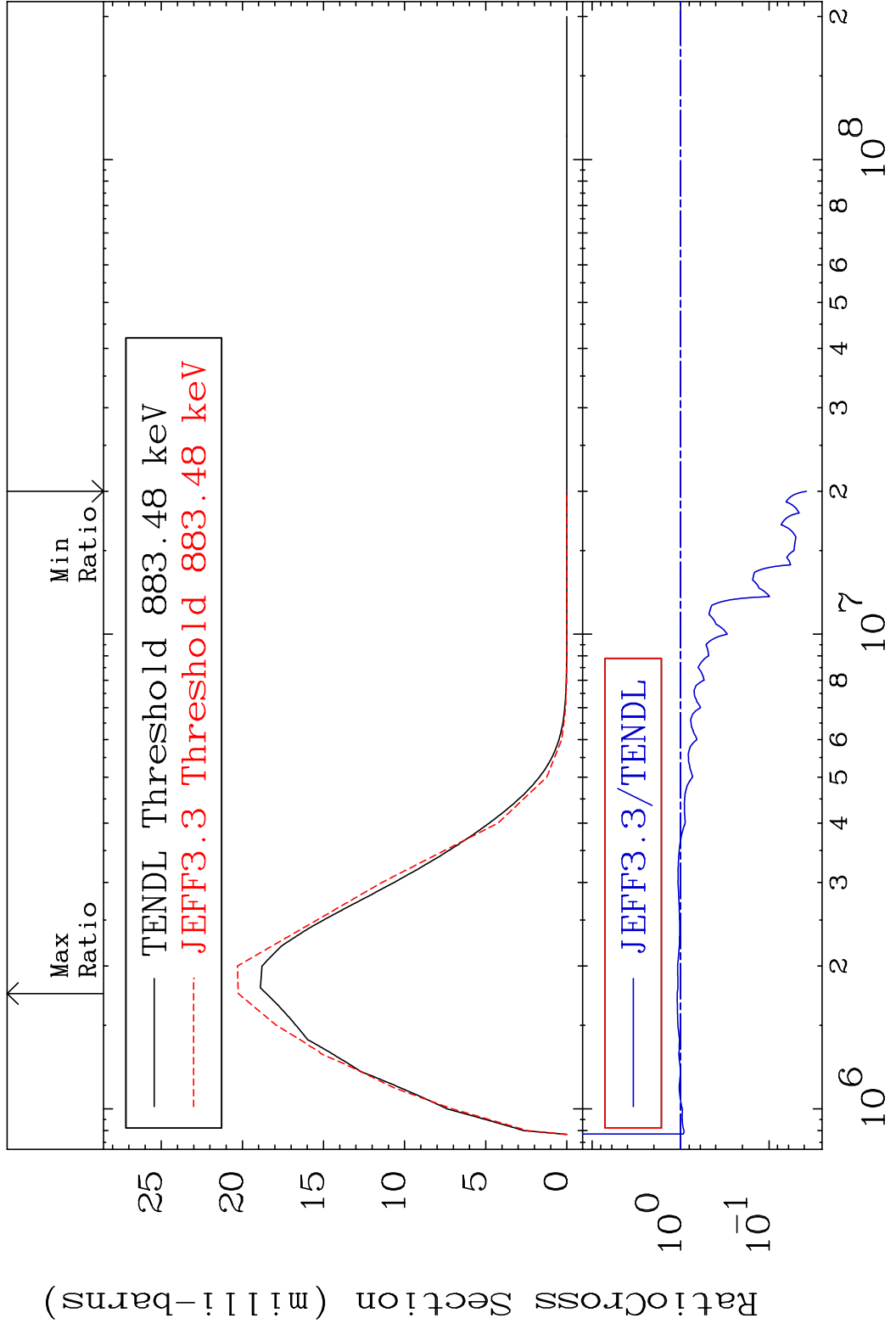


MAT 5337 MT= 55 (n, n') Level 53-I -131
 Cross Section -100.0 To 17.41 %



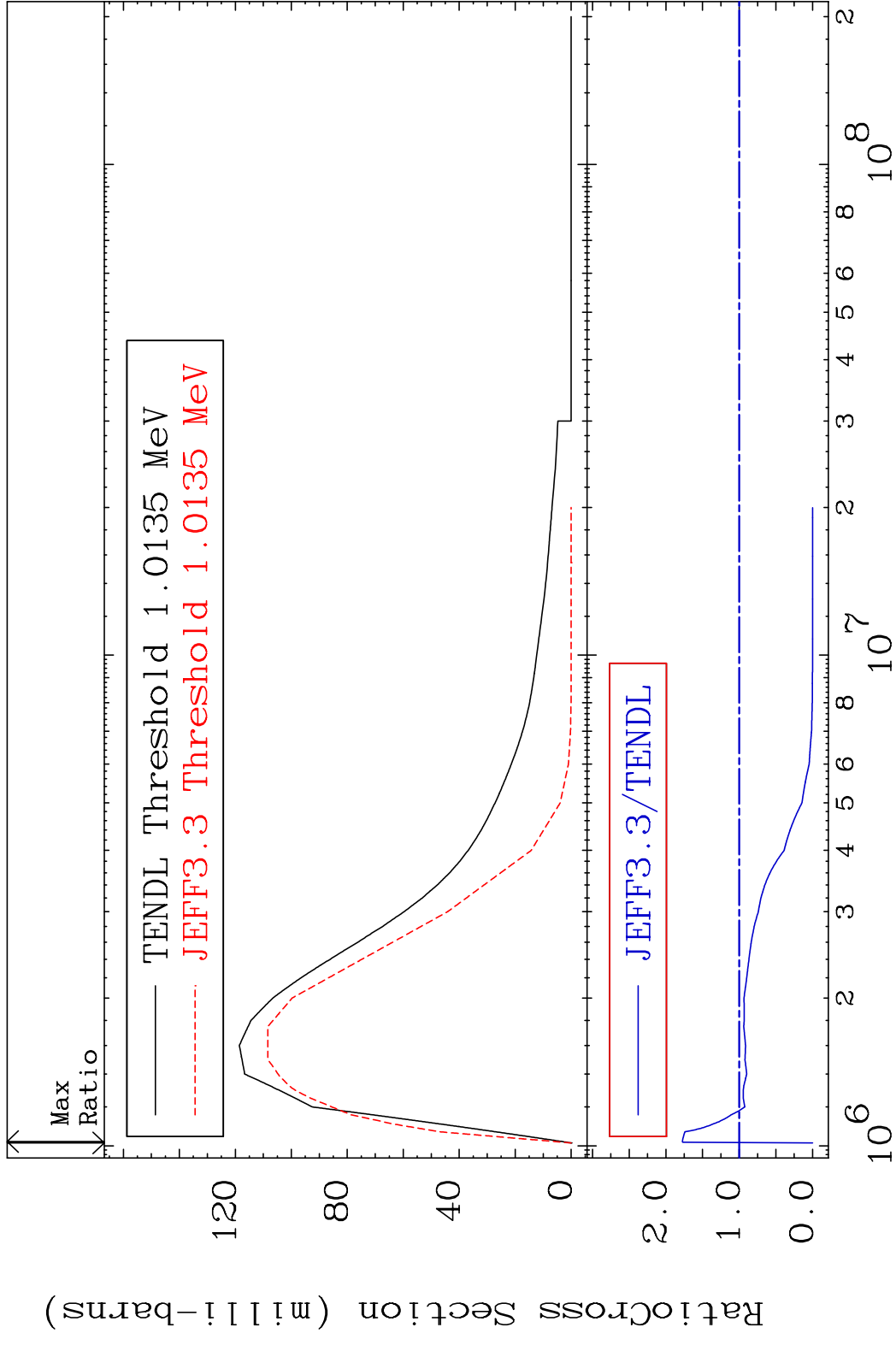
14 Incident Energy (eV) 53-I -131

MAT 5337 MT= 56 (n,n') Level 53-I -131
 Cross Section -96.22 To 9.344 %



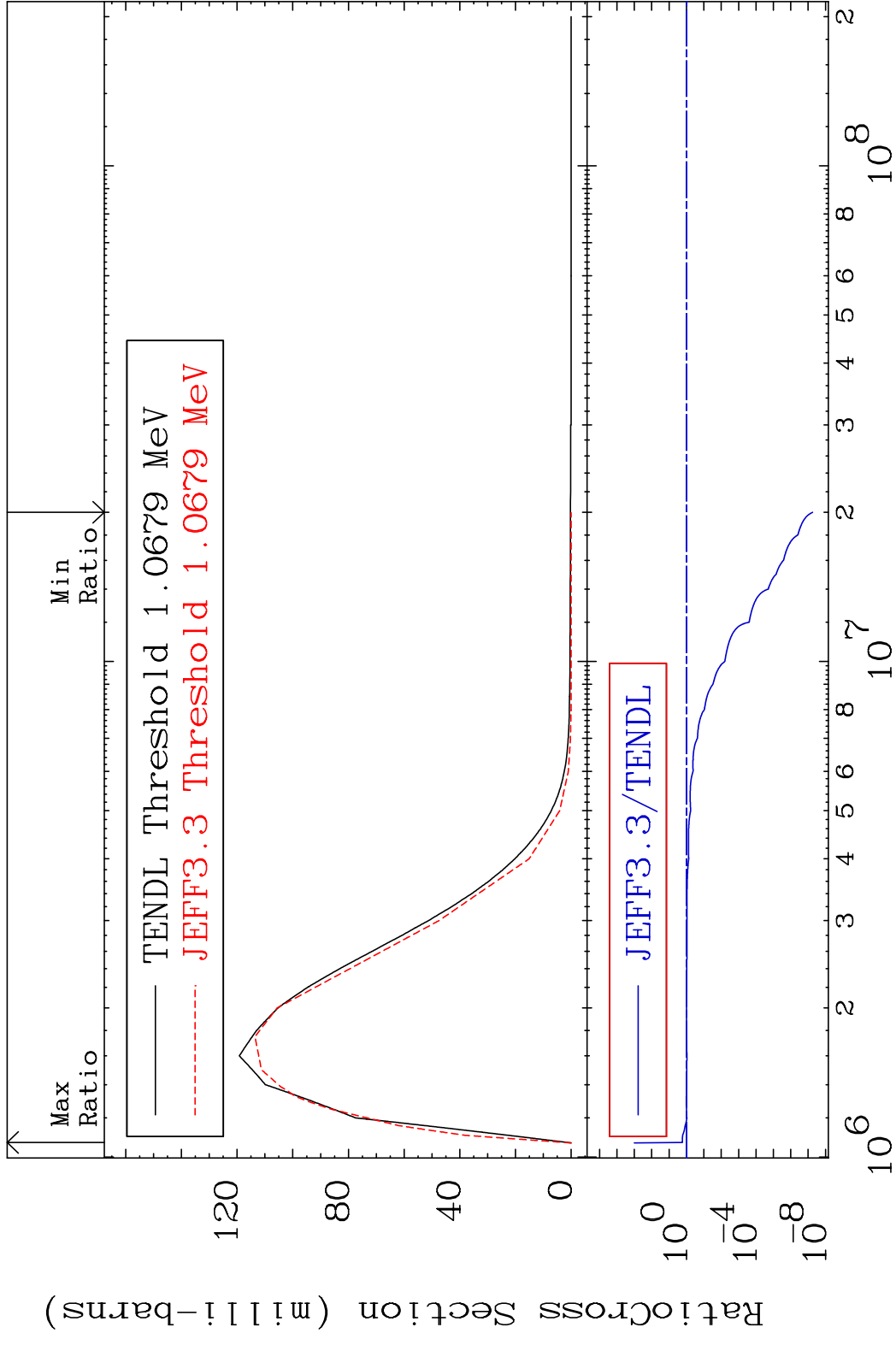
15 Incident Energy (eV) 53-I -131

MAT 5337 MT= 57 (n,n') Level 53-I -131
 Cross Section -100.0 To 77.55 %

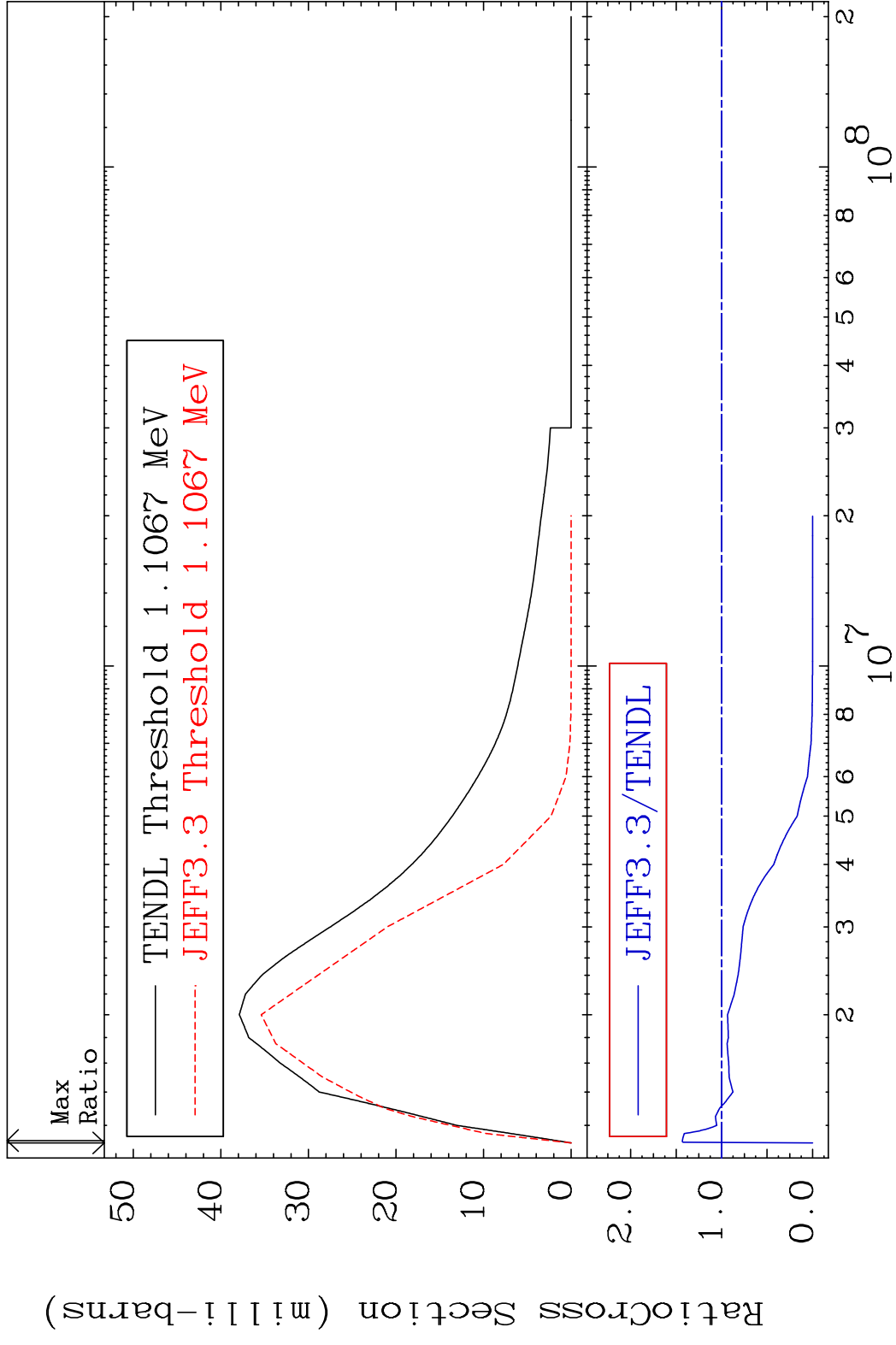


16 Incident Energy (eV) 53-I -131

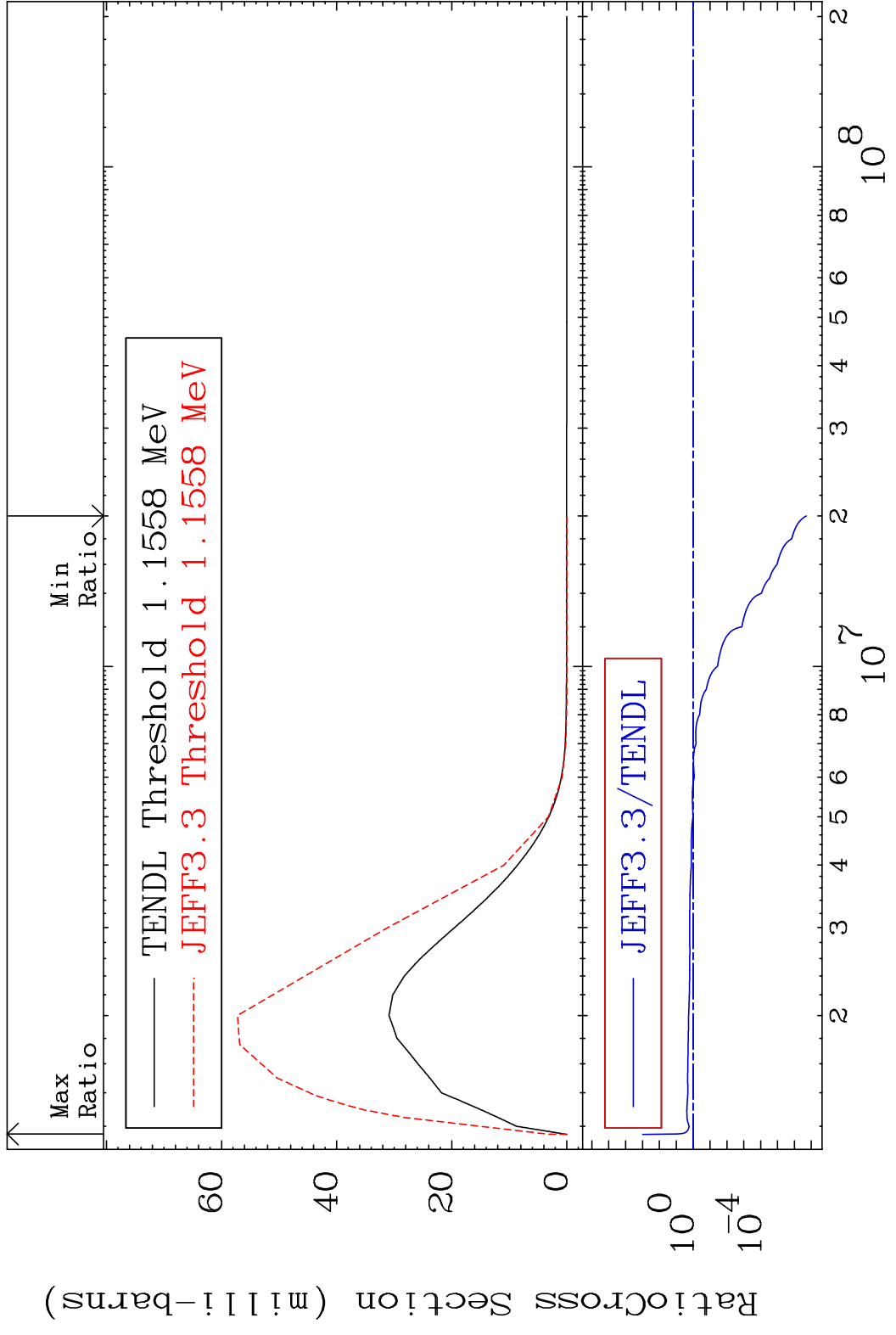
MAT 5337 MT= 58 (n, n') Level 53-I -131
 Cross Section -100.0 To 72.43 %



MAT 5337 MT= 59 (n,n') Level 53-I -131
 Cross Section -100.0 To 43.14 %

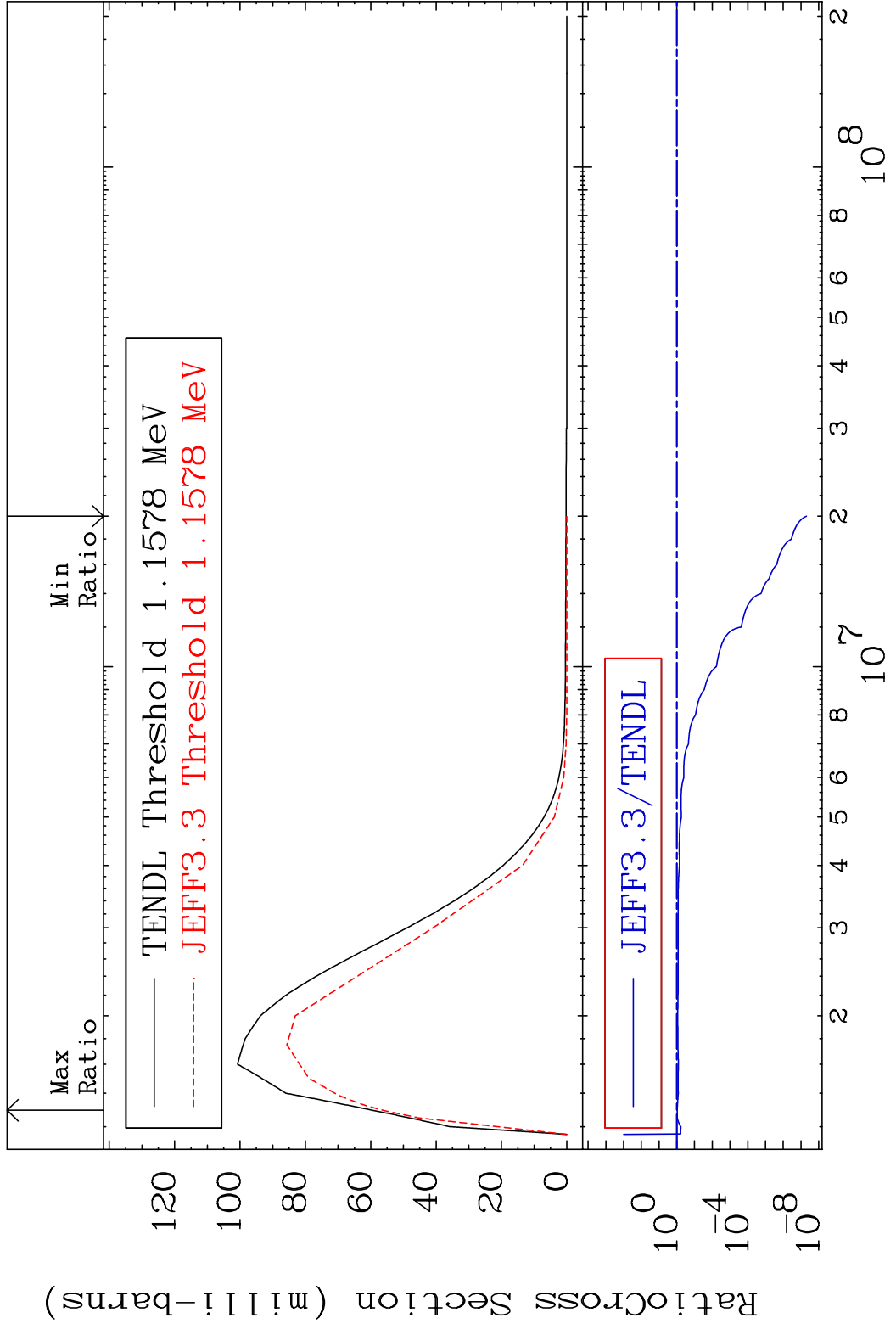


MAT 5337 MT= 60 (n, n') Level 53-I -131
 Cross Section -100.0 To 782.5 %



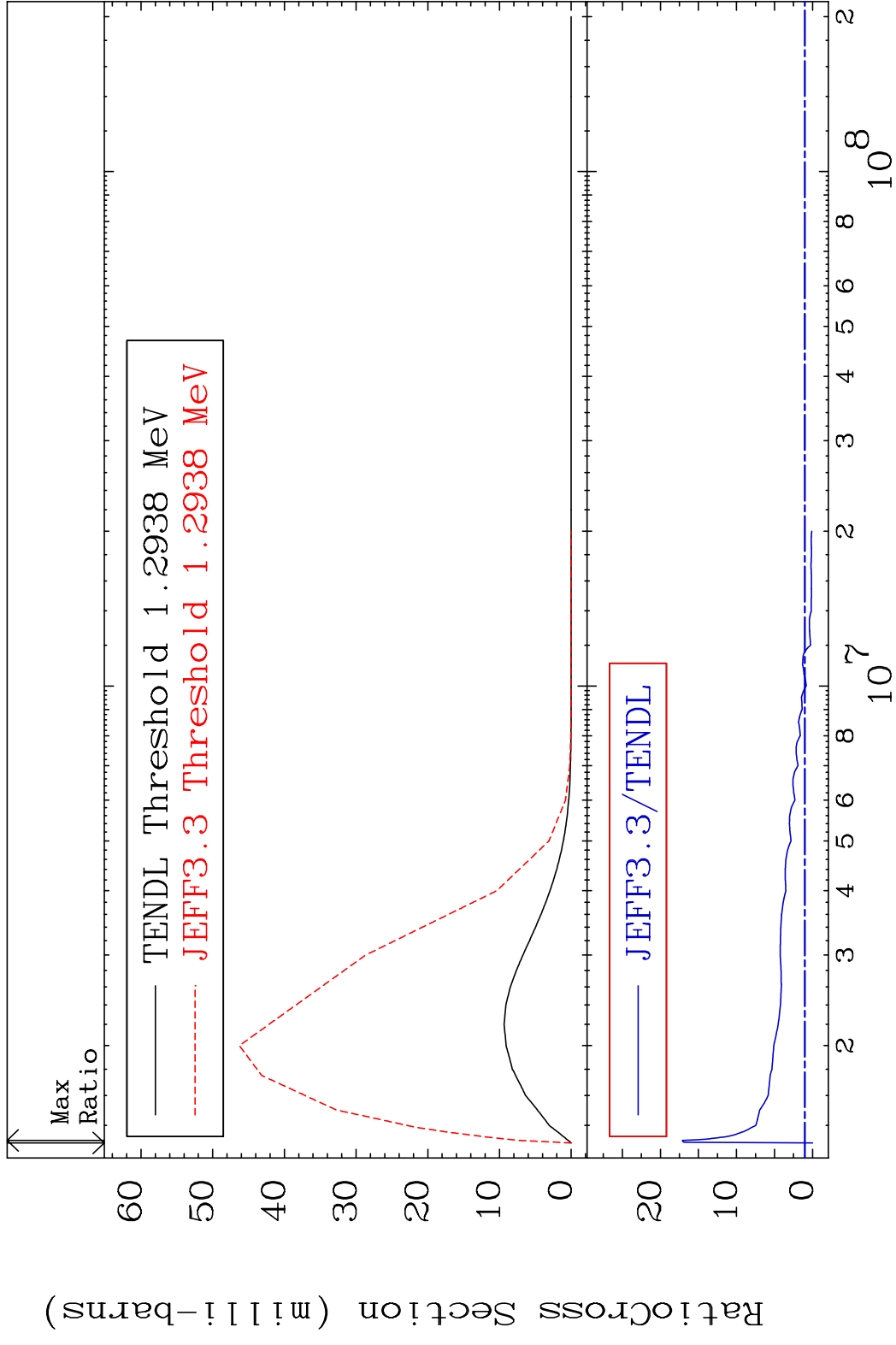
19 Incident Energy (eV) 53-I -131

MAT 5337 MT= 61 (n, n') Level 53-I -131
 Cross Section -100.0 To -5.258%

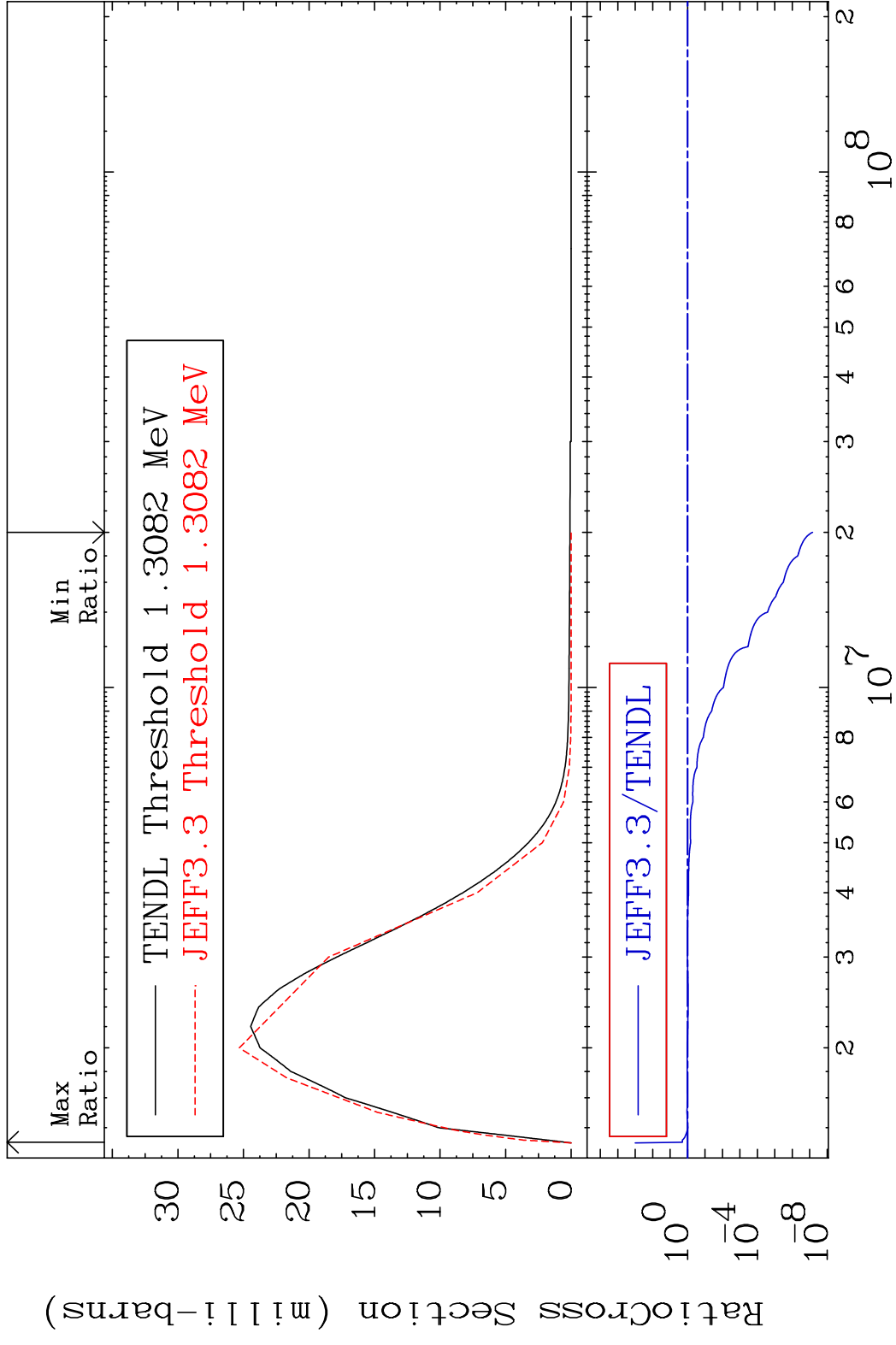


20 Incident Energy (eV) 53-I -131

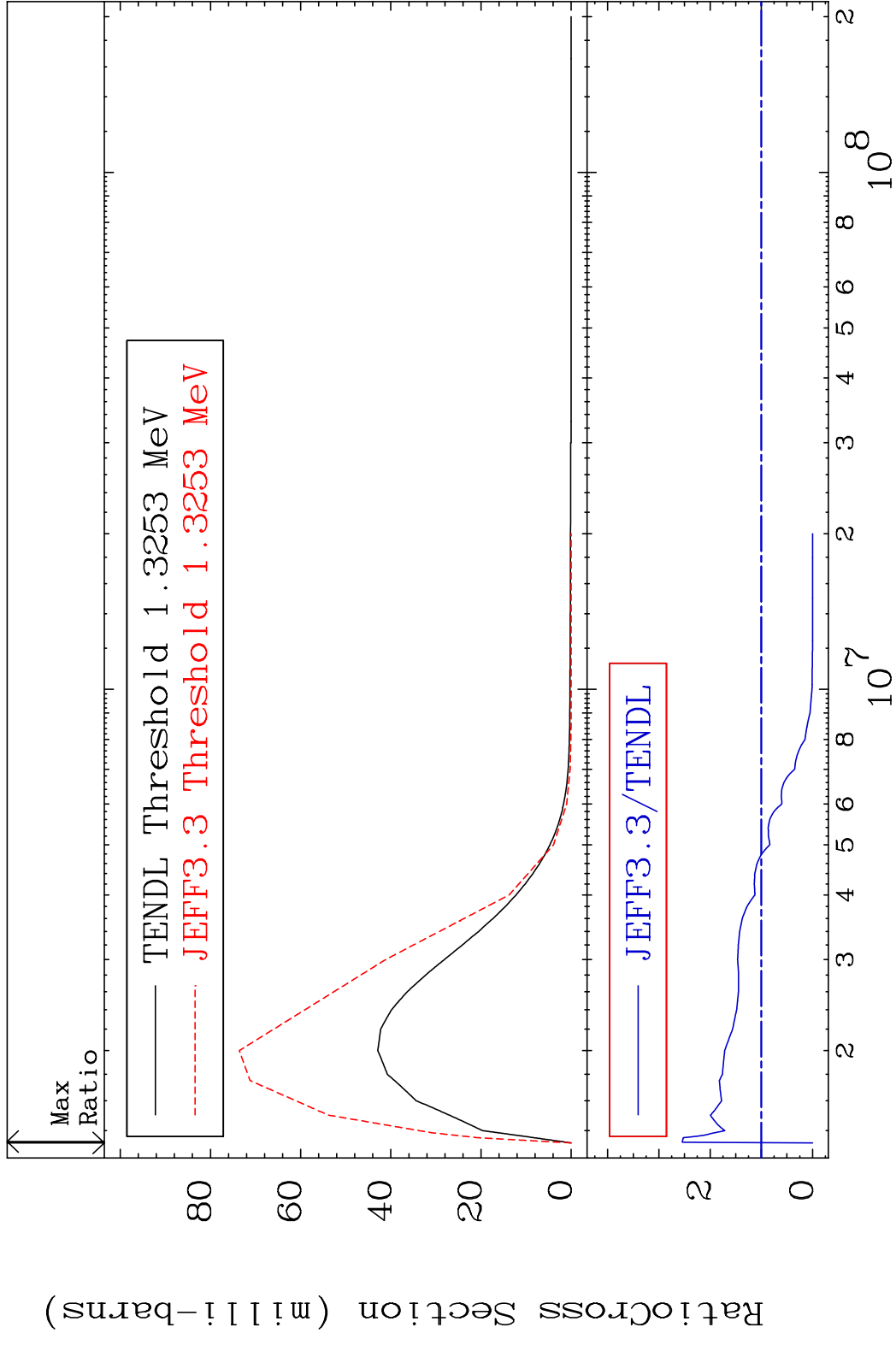
MAT 5337 MT= 62 (n,n') Level 53-I -131
 Cross Section -100.0 To 1612. %



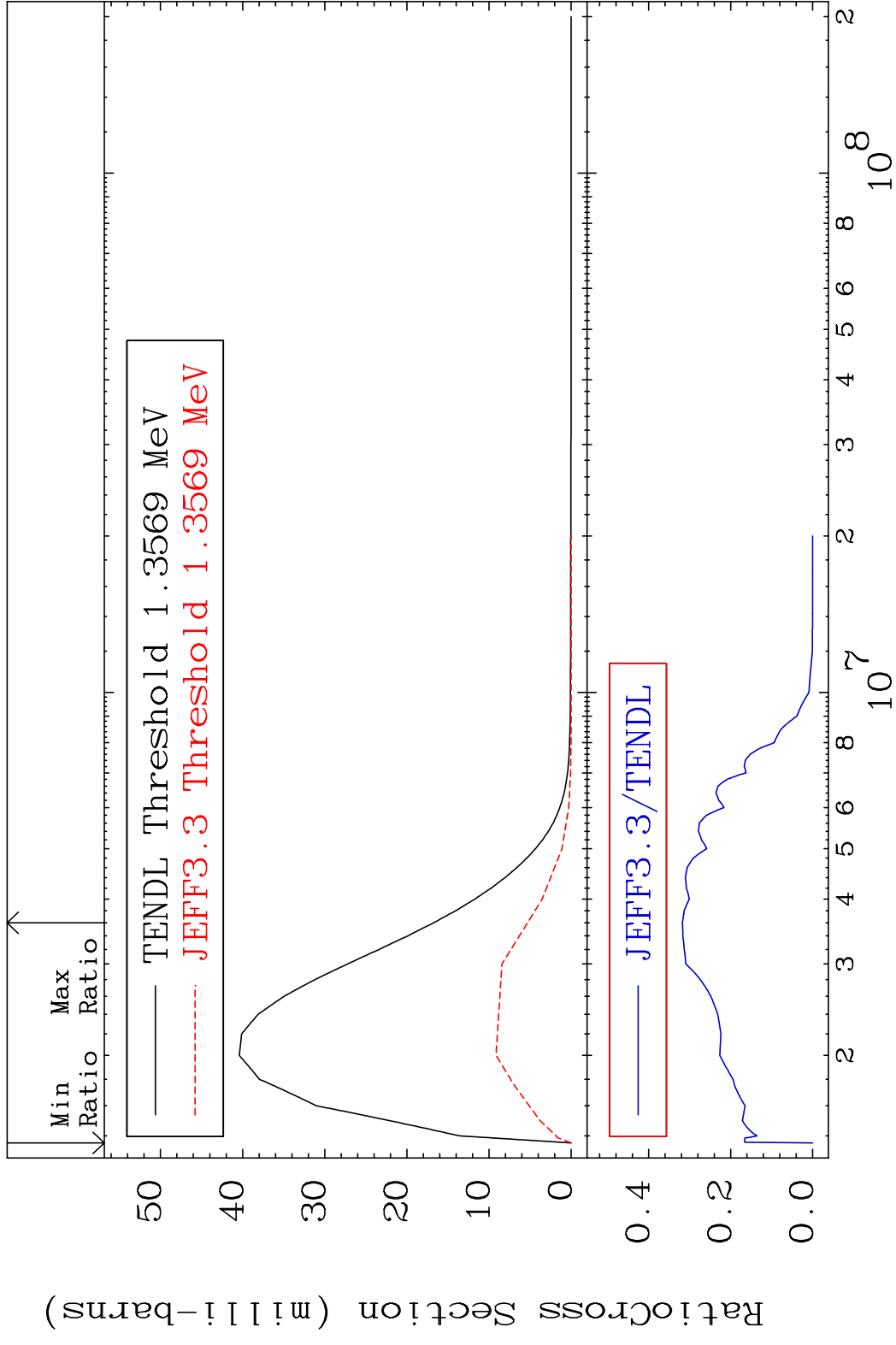
MAT 5337 MT= 63 (n, n') Level 53-I -131
 Cross Section -100.0 To 99.35 %



MAT 5337 MT= 64 (n,n') Level 53-I -131
 Cross Section -100.0 To 154.2 %



MAT 5337 MT= 65 (n,n') Level 53-I -131
 Cross Section -100.0 To -68.21%

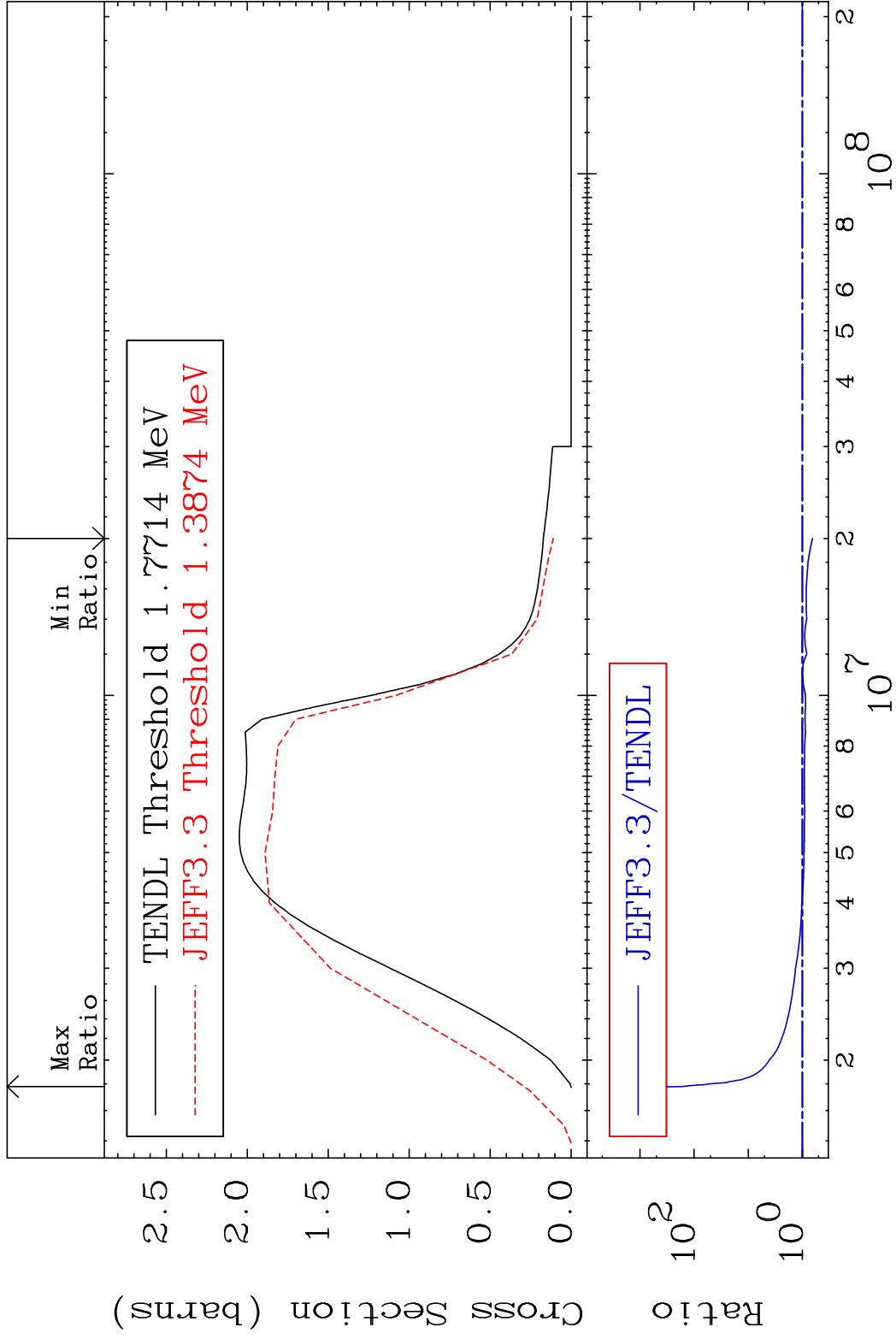


MAT 5337

(n, n') Continuum

53-I -131

Cross Section -35.52 To 9999. %



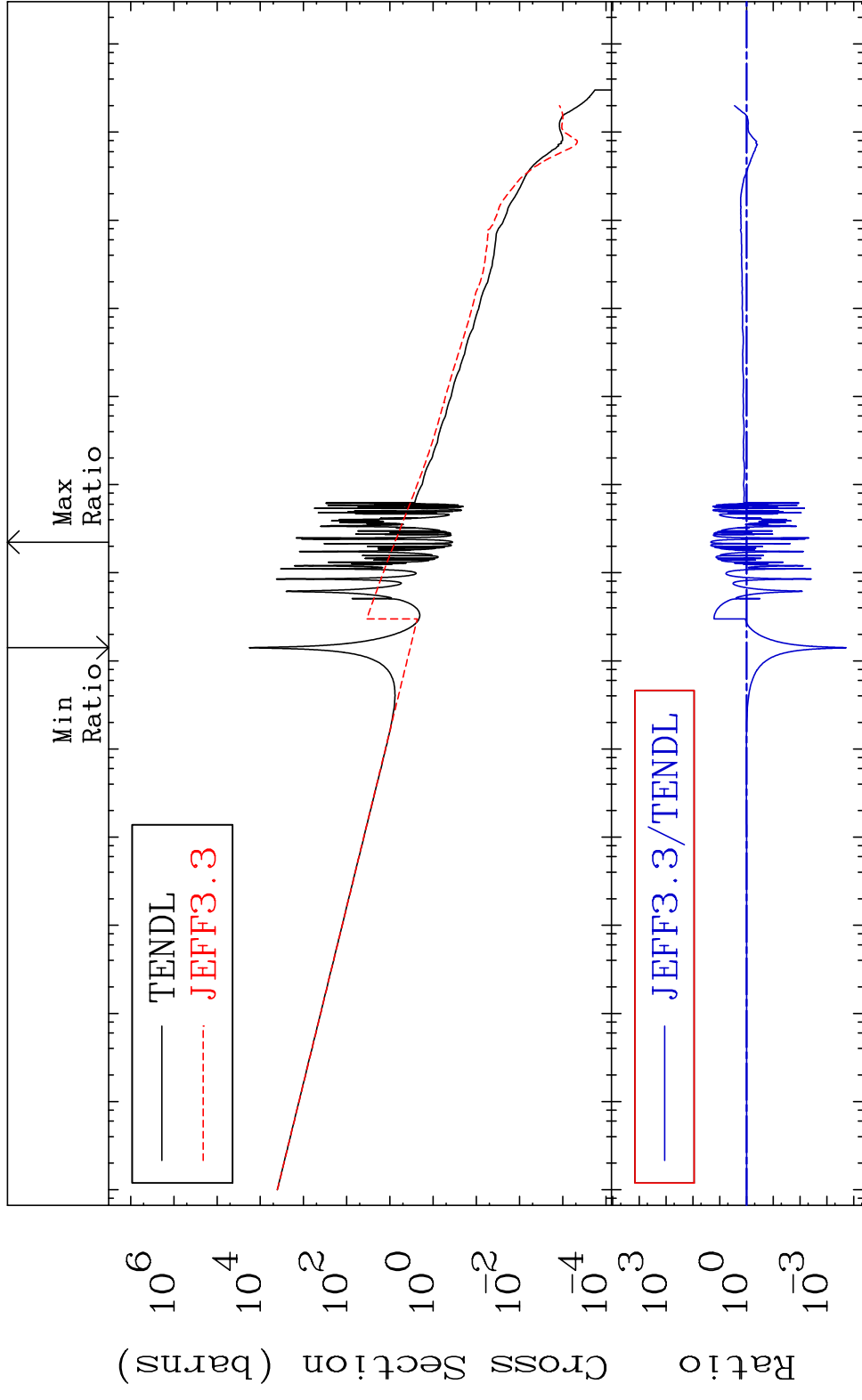
25

Incident Energy (eV)

53-I -131

MAT 5337

(n, γ)
Cross Section -99.98 To 2072. %
53-I -131

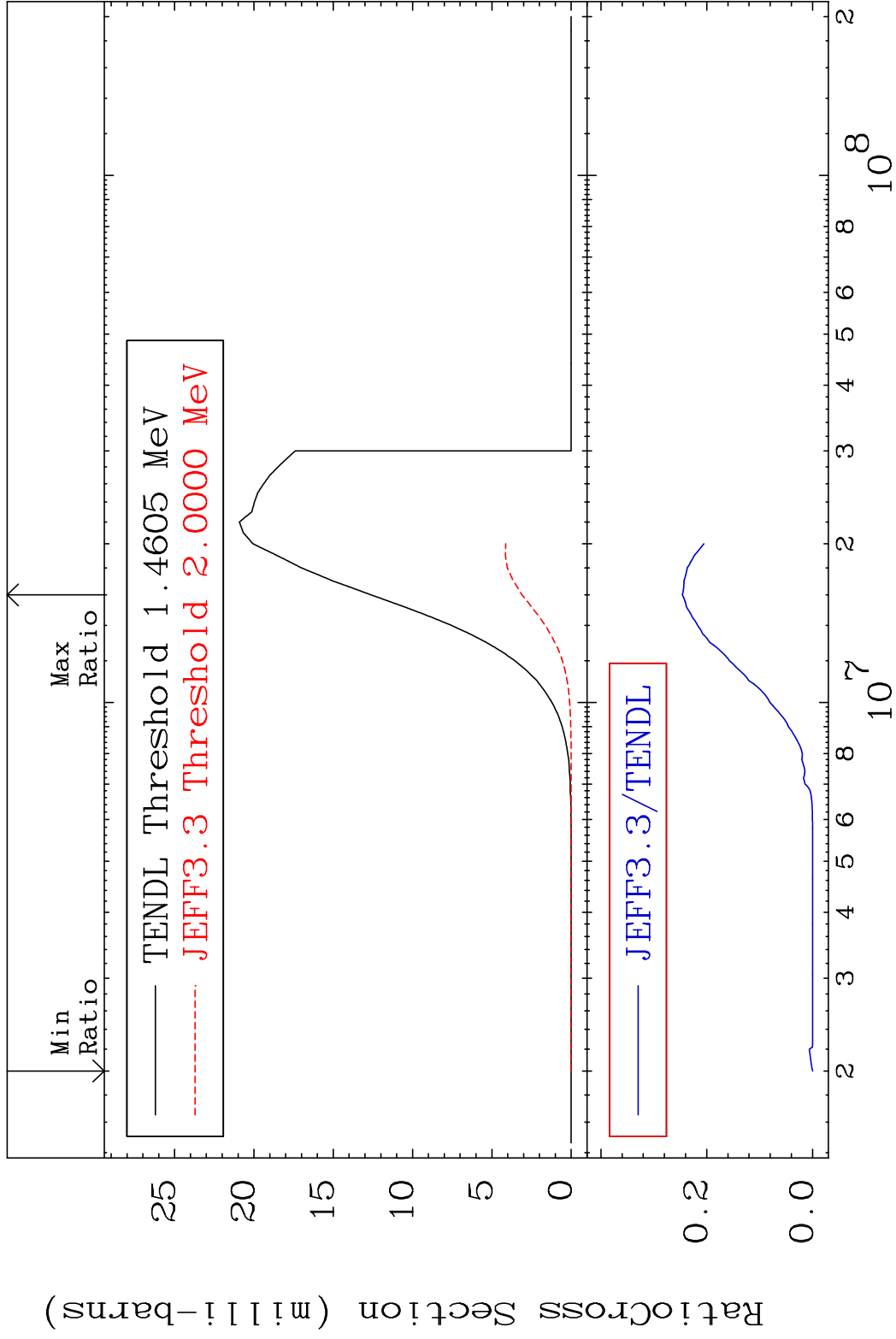


MAT 5337

(n, p)

53-I -131

Cross Section -100.0 To -75.39%



27

Incident Energy (eV)

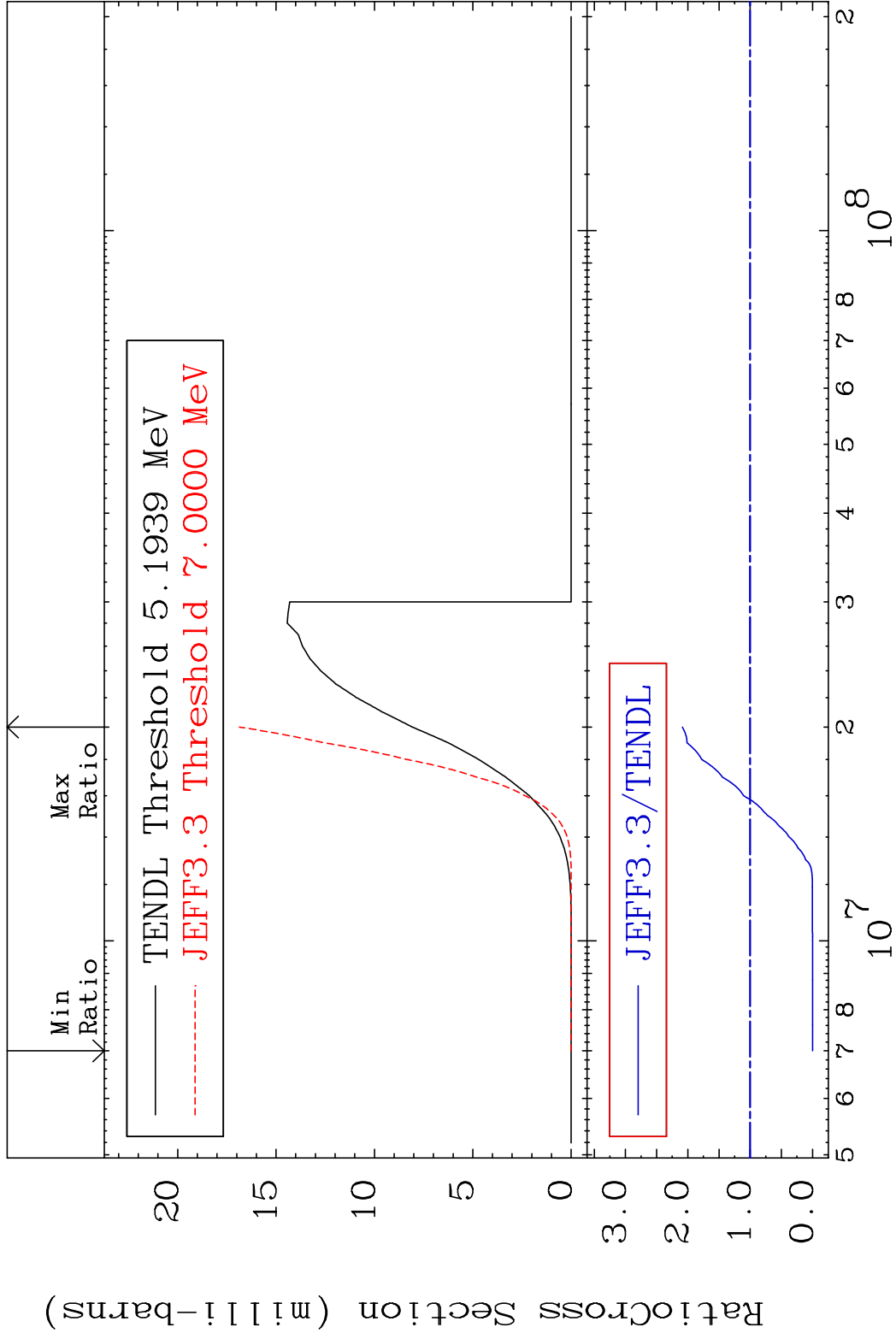
53-I -131

MAT 5337

(n, d)

53-I -131

Cross Section -100.0 To 108.8 %



28

Incident Energy (eV)

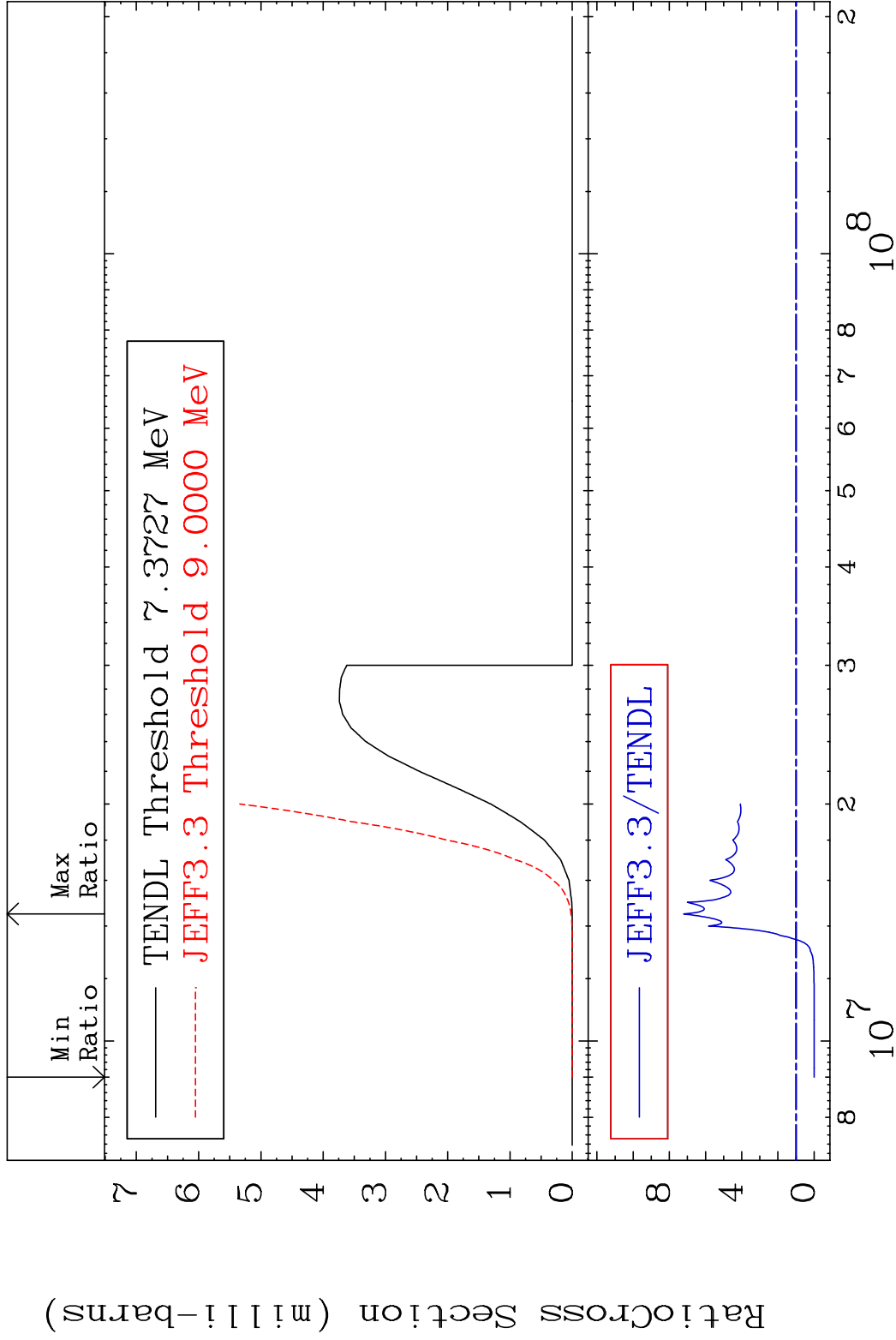
53-I -131

MAT 5337

(n, t)

53-I -131

Cross Section -100.0 To 620.9 %



29

Incident Energy (eV)

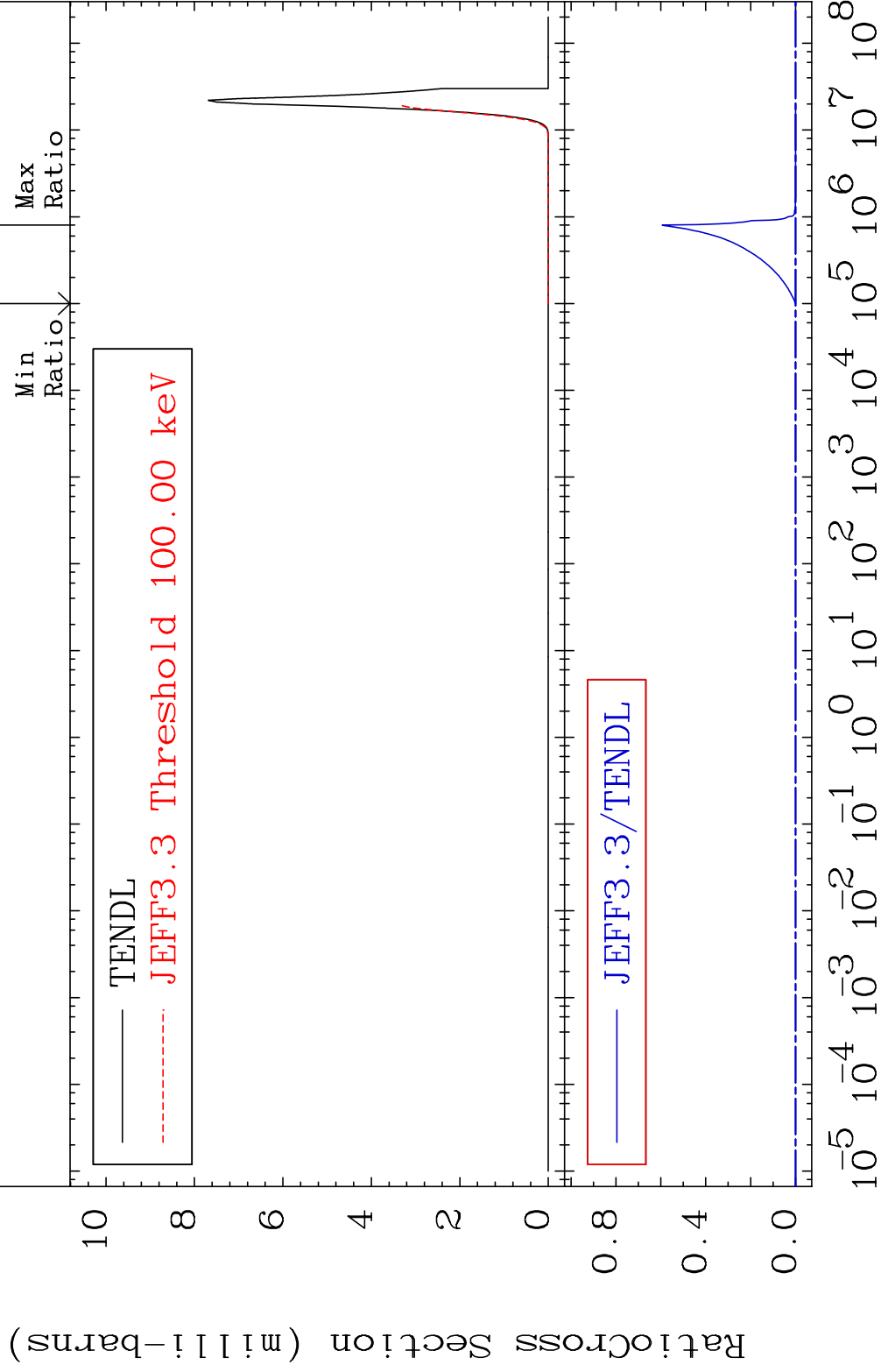
53-I -131

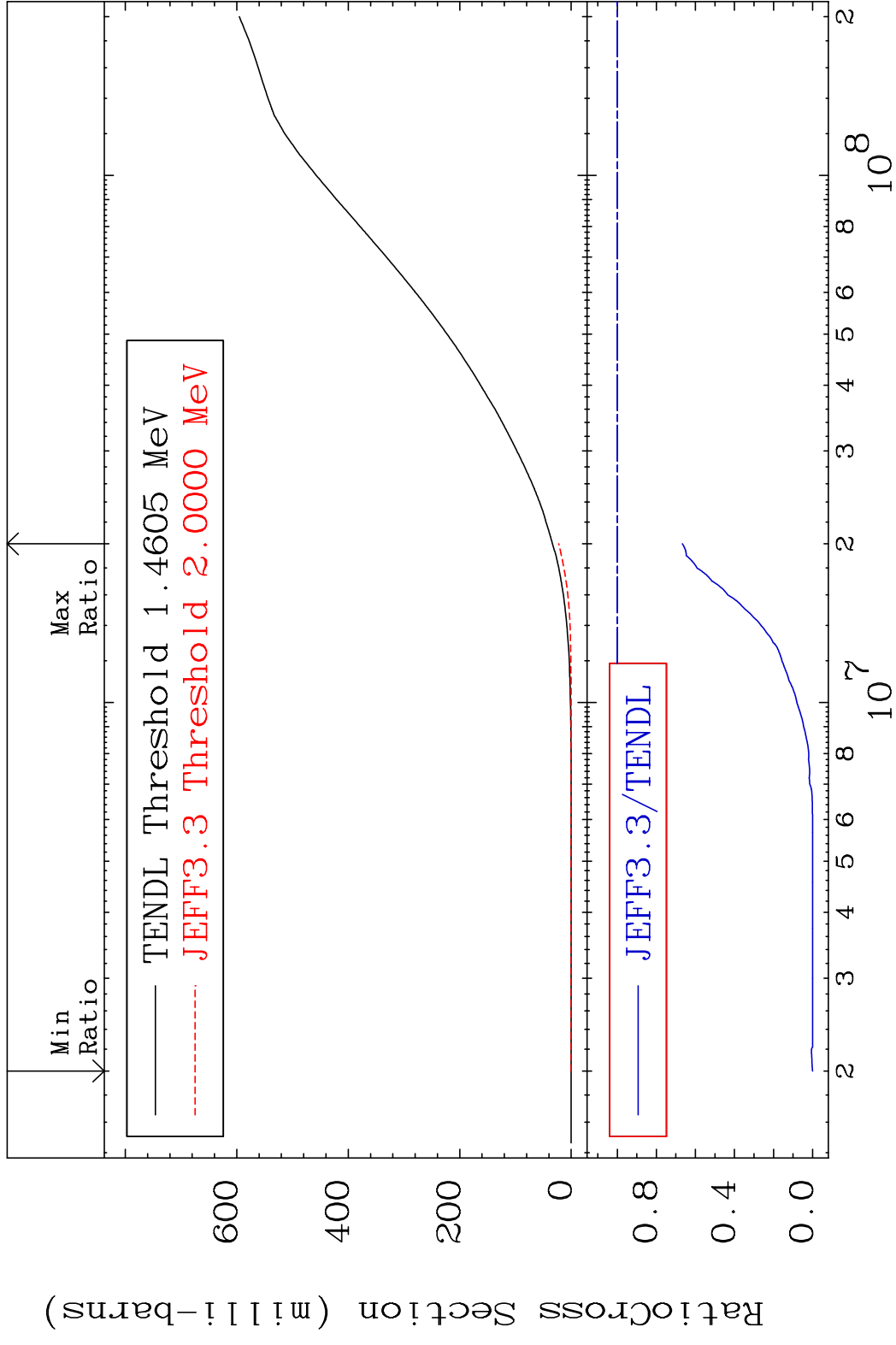
MAT 5337

(n, α)

53-I -131

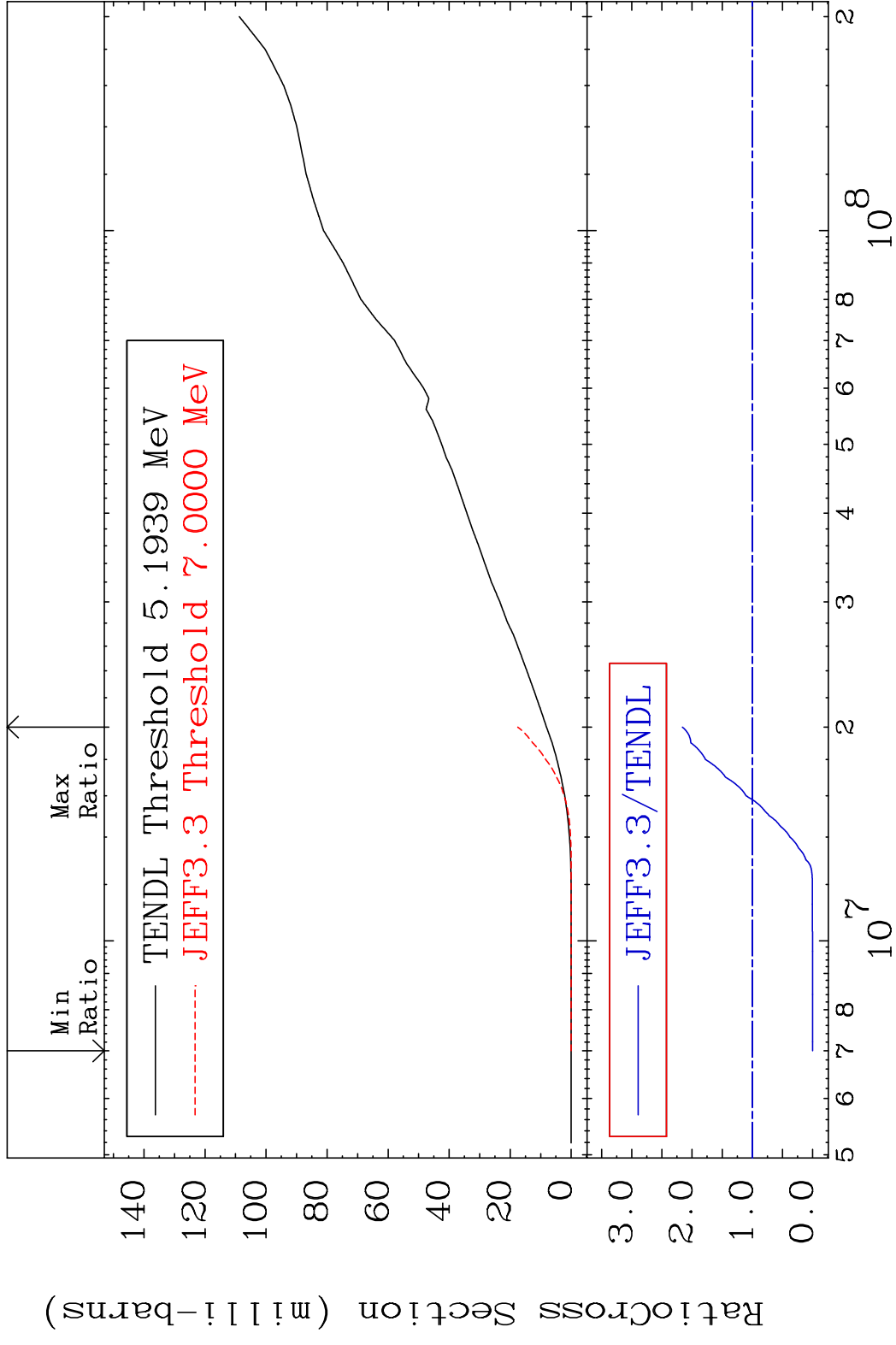
Cross Section -100.0 To 9999. %





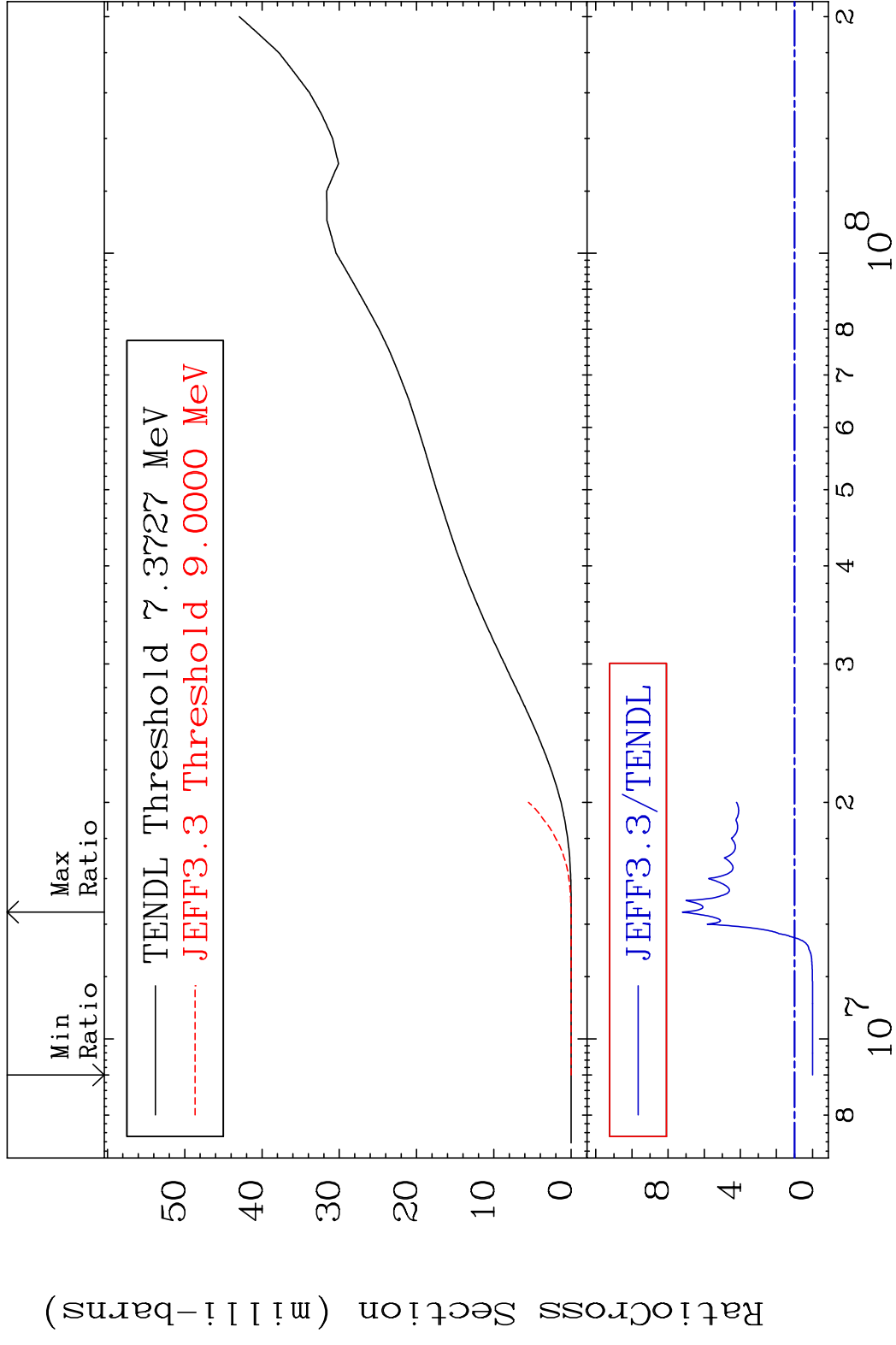
MAT 5337

Deuterium Production 53-I -131
Cross Section -100.0 To 116.1 %



MAT 5337

Tritium Production 53-I -131
Cross Section -100.0 To 620.9 %

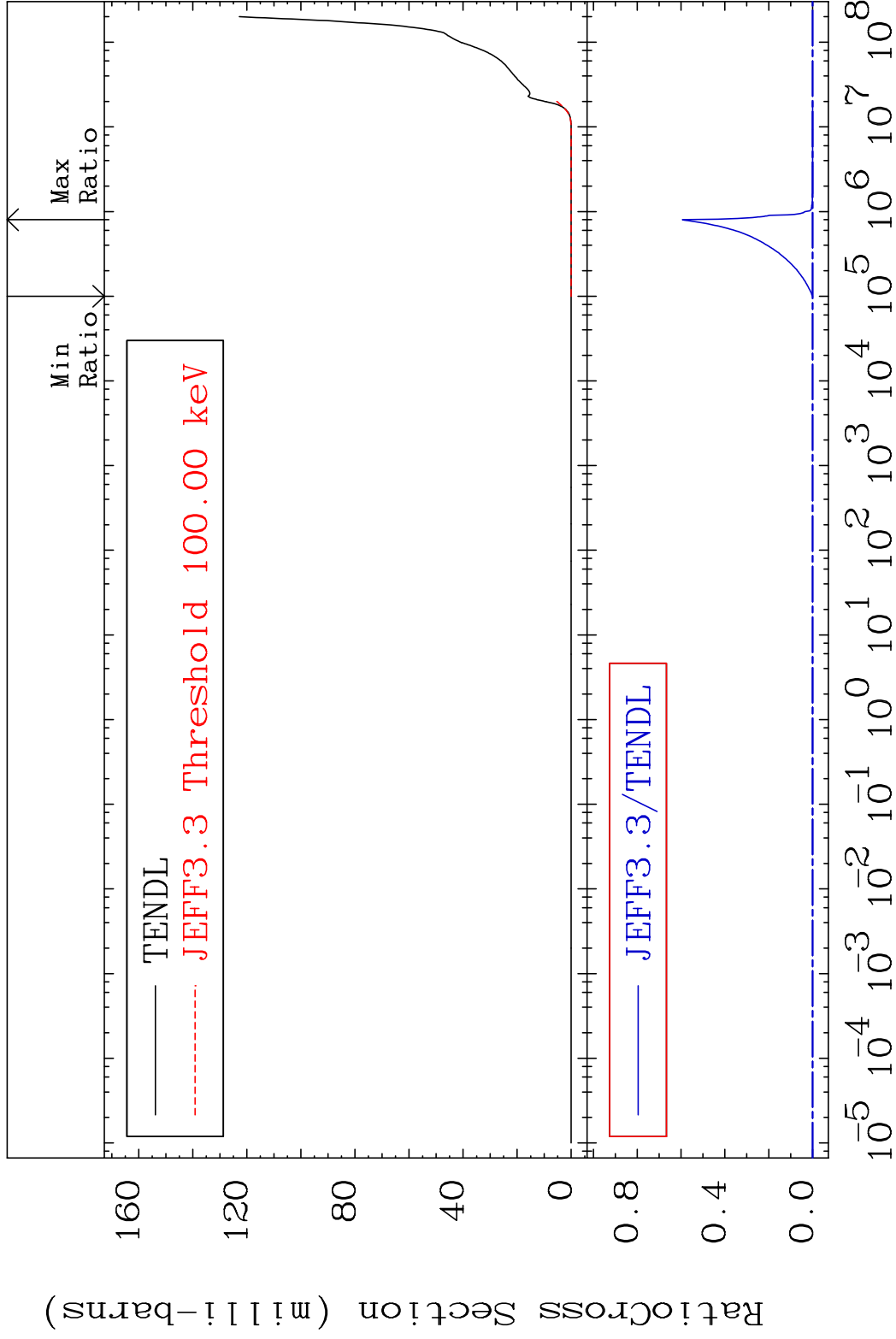


MAT 5337

He-4 Production

53-I -131

Cross Section -100.0 To 9999. %

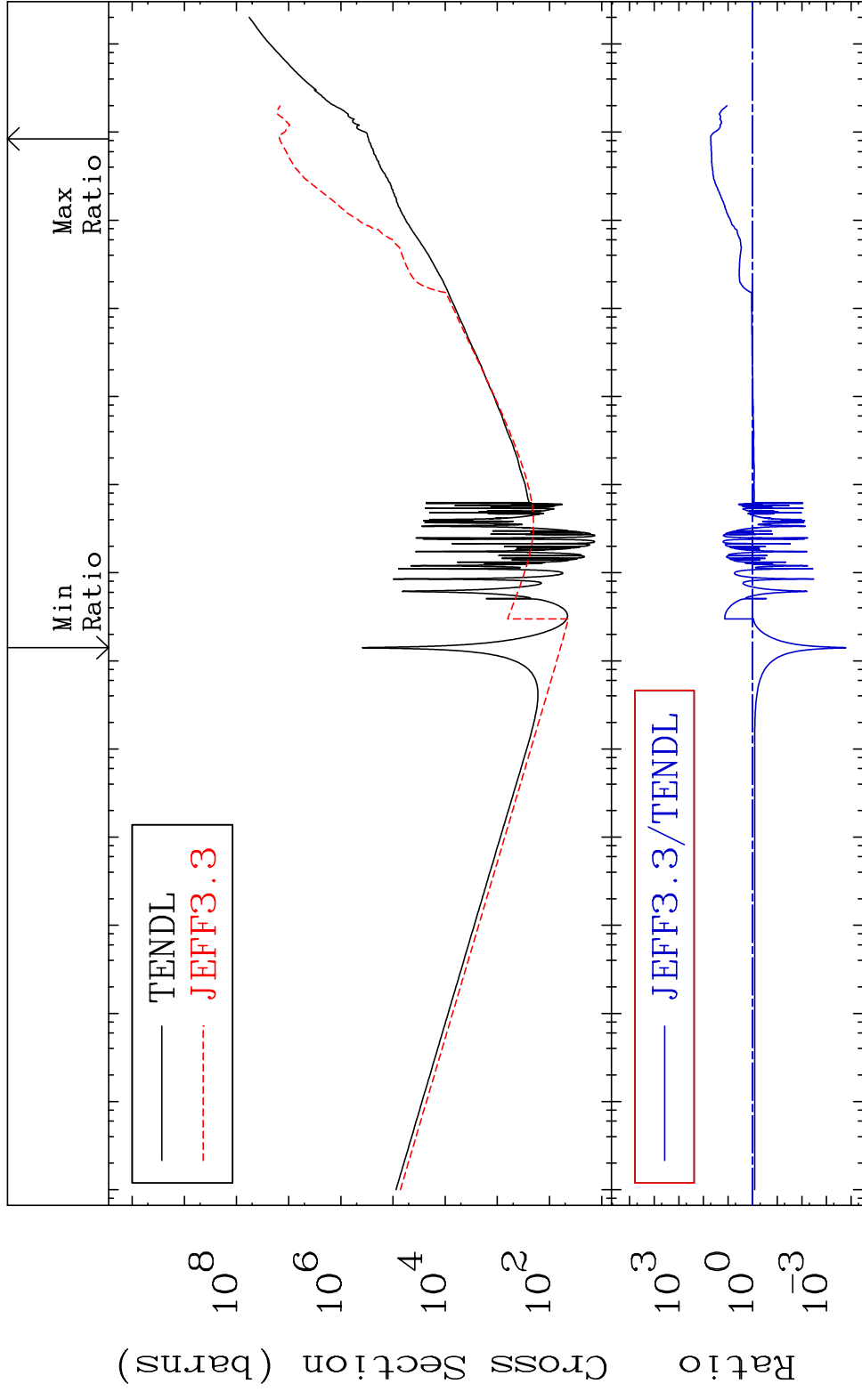


34

Incident Energy (eV)

53-I -131

MAT 5337 Kerma total (eV-barns) 53-I -131
 Cross Section -99.98 To 4959. %



10⁸
 10⁶
 10⁴
 10²
 10³
 10⁰
 10⁻³

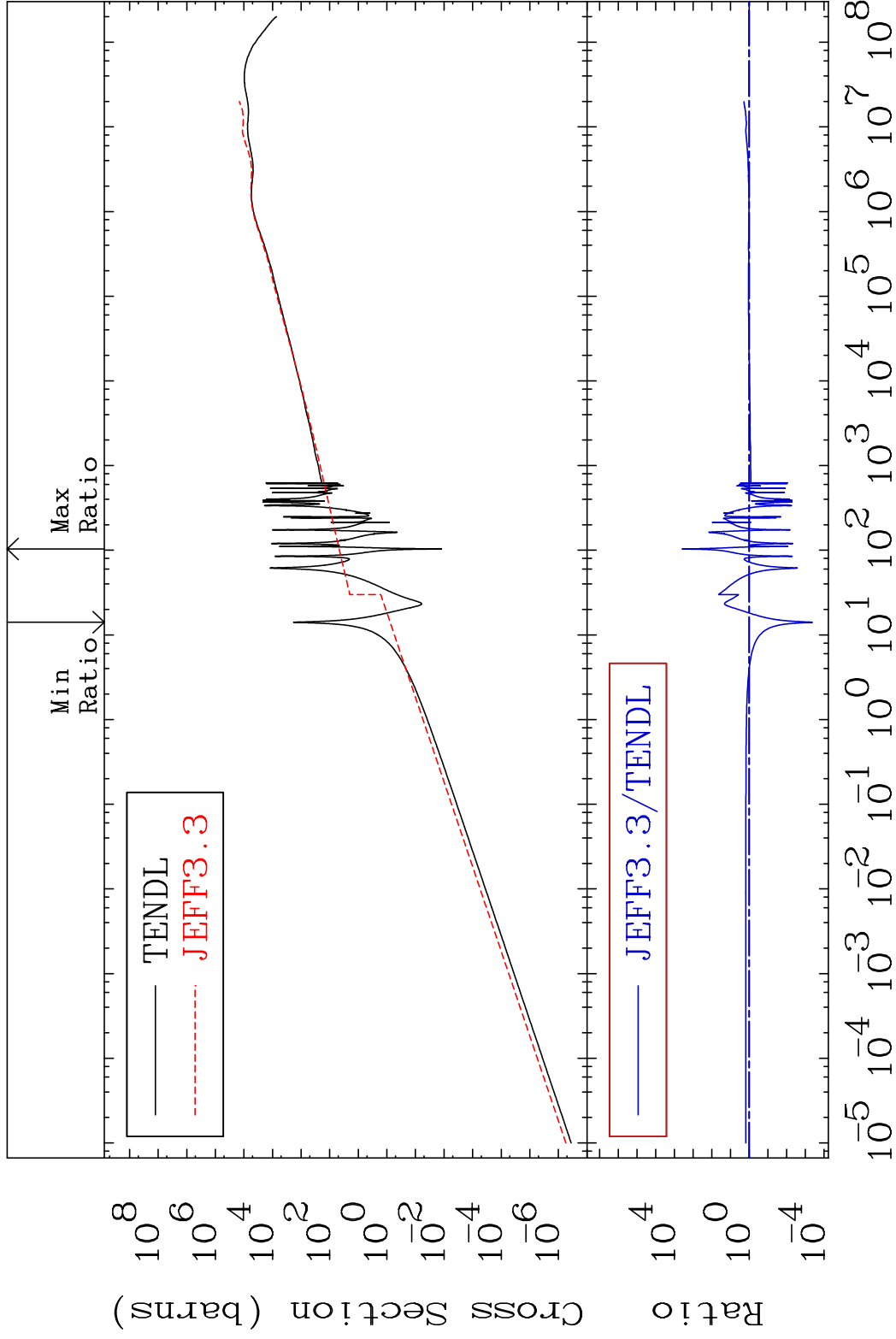
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

35 Incident Energy (eV) 53-I -131

MAT 5337

Kerma elastic
Cross Section

53-I -131
-99.96 To 9999. %

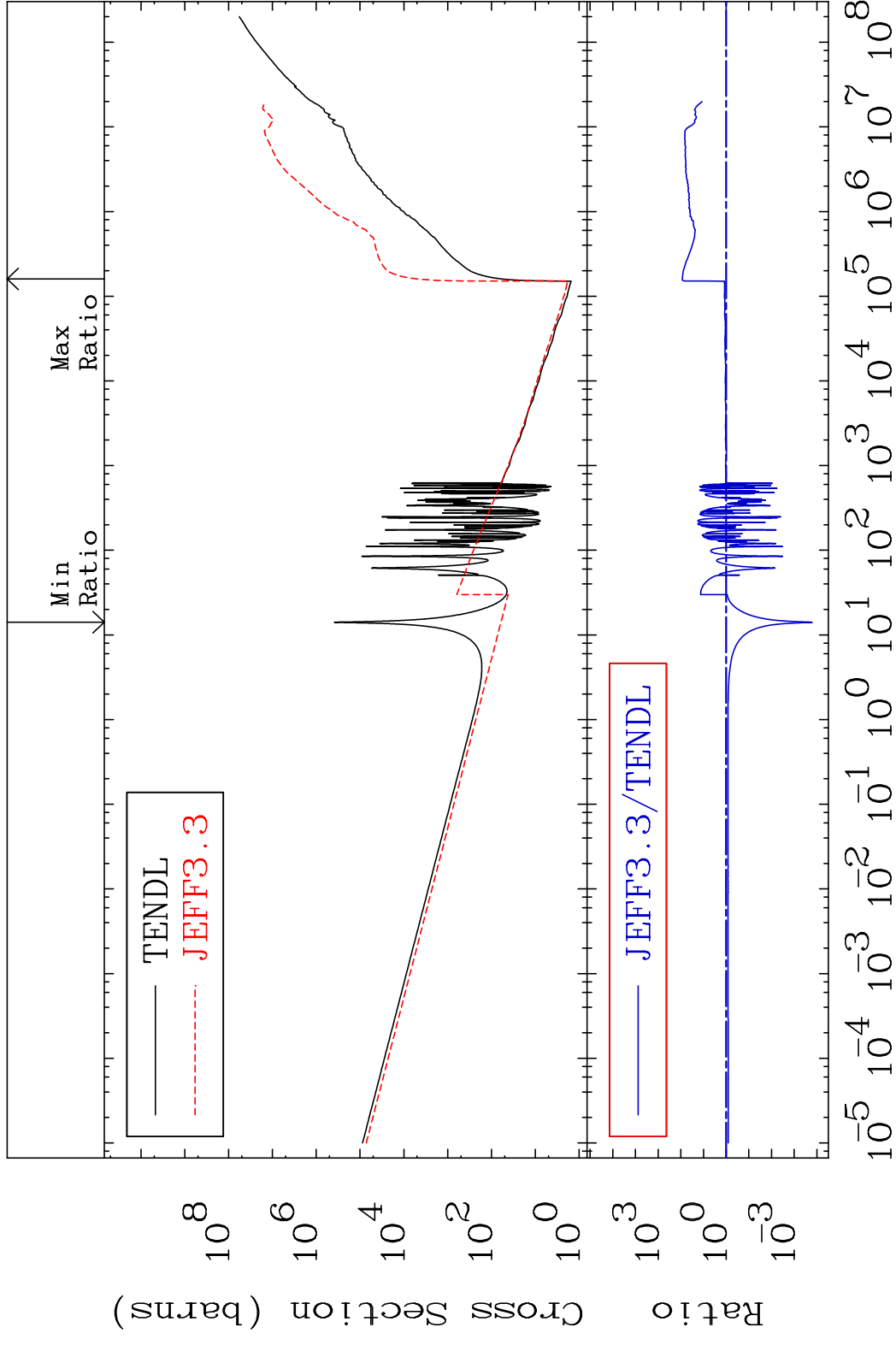


36

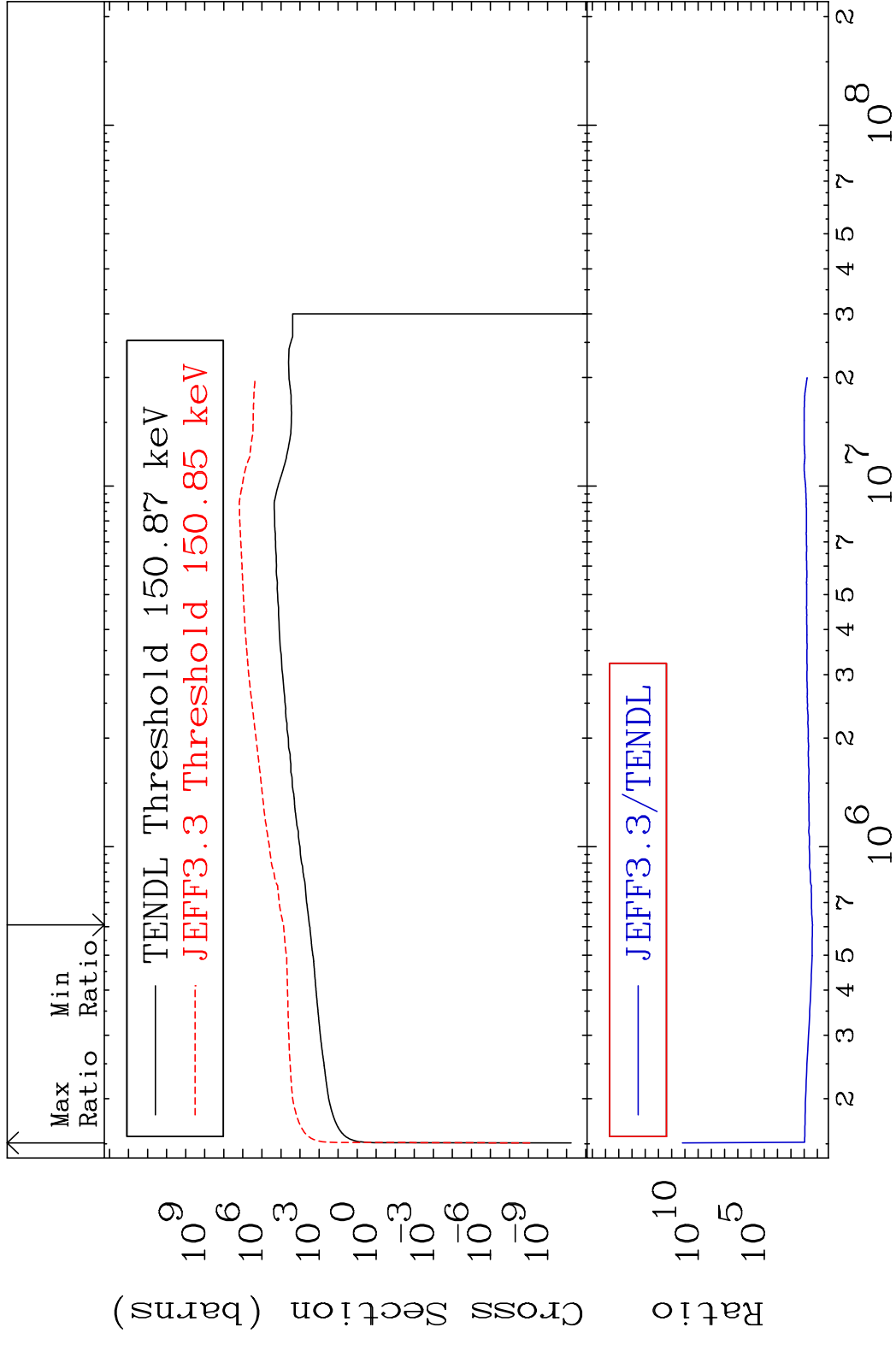
Incident Energy (eV)

53-I -131

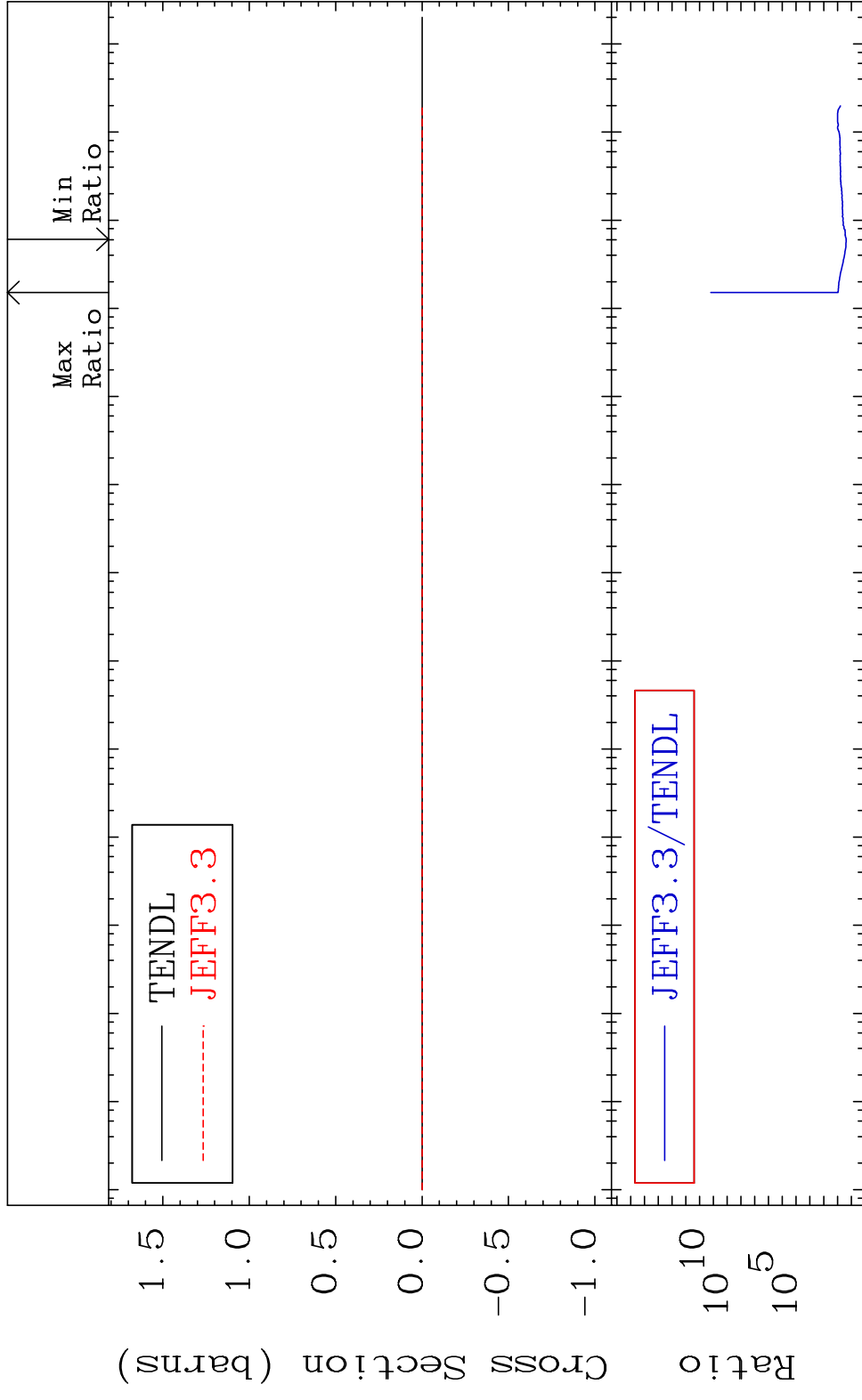
MAT 5337 Kerma non-elastic (all but mt2) 53-I -131
 Cross Section -99.98 To 8474. %



MAT 5337 Kerma inelastic (mt51-91) 53-I -131
 Cross Section 2185. To 9999. %



MAT 5337 Kerma fission (mt18 or mt19-20-21-38)53-I -131
 Cross Section 2185. To 9999. %



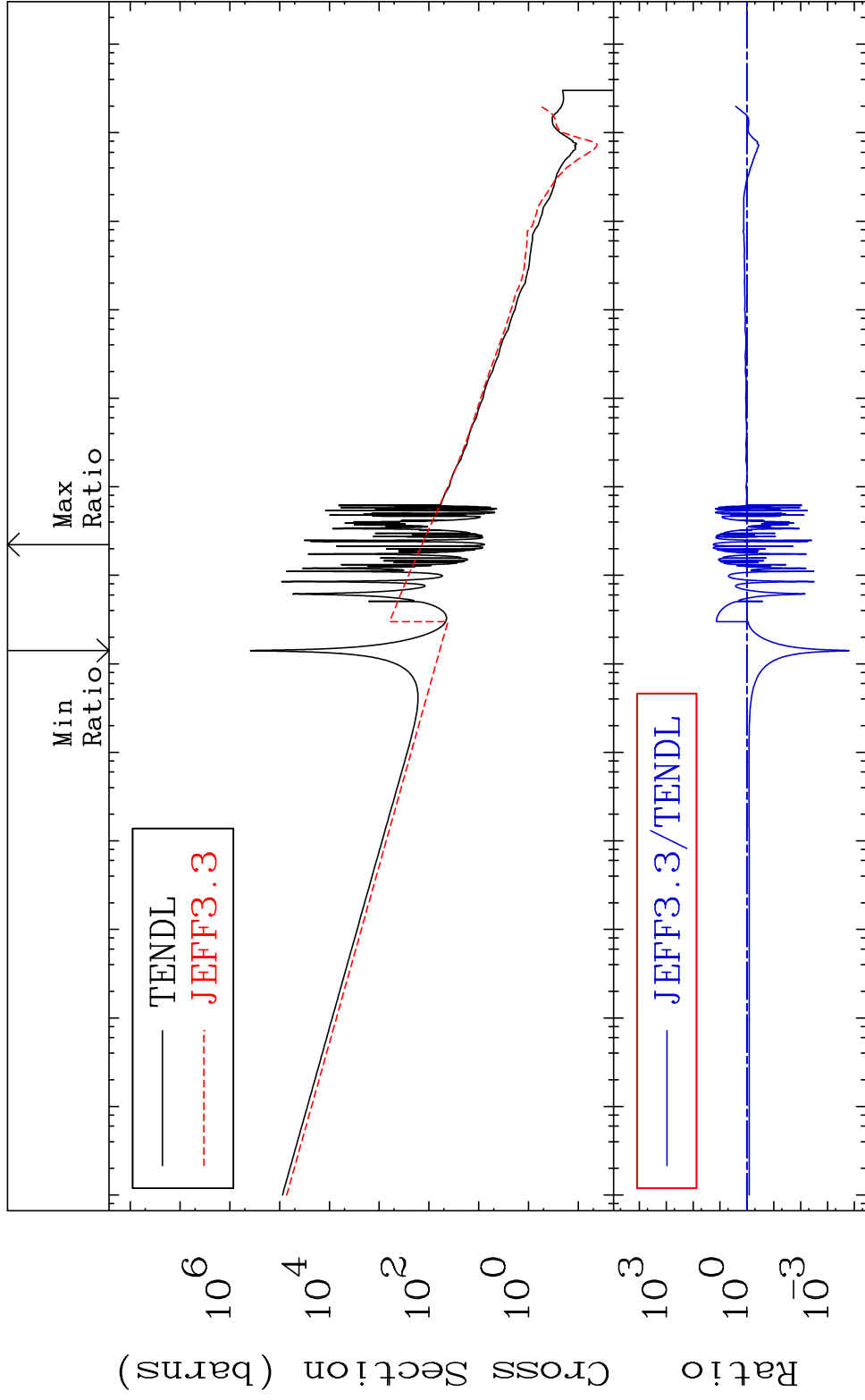
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

39 Incident Energy (eV) 53-I -131

MAT 5337

Kerma capture (mt102) 53-I -131

Cross Section -99.98 To 1690. %



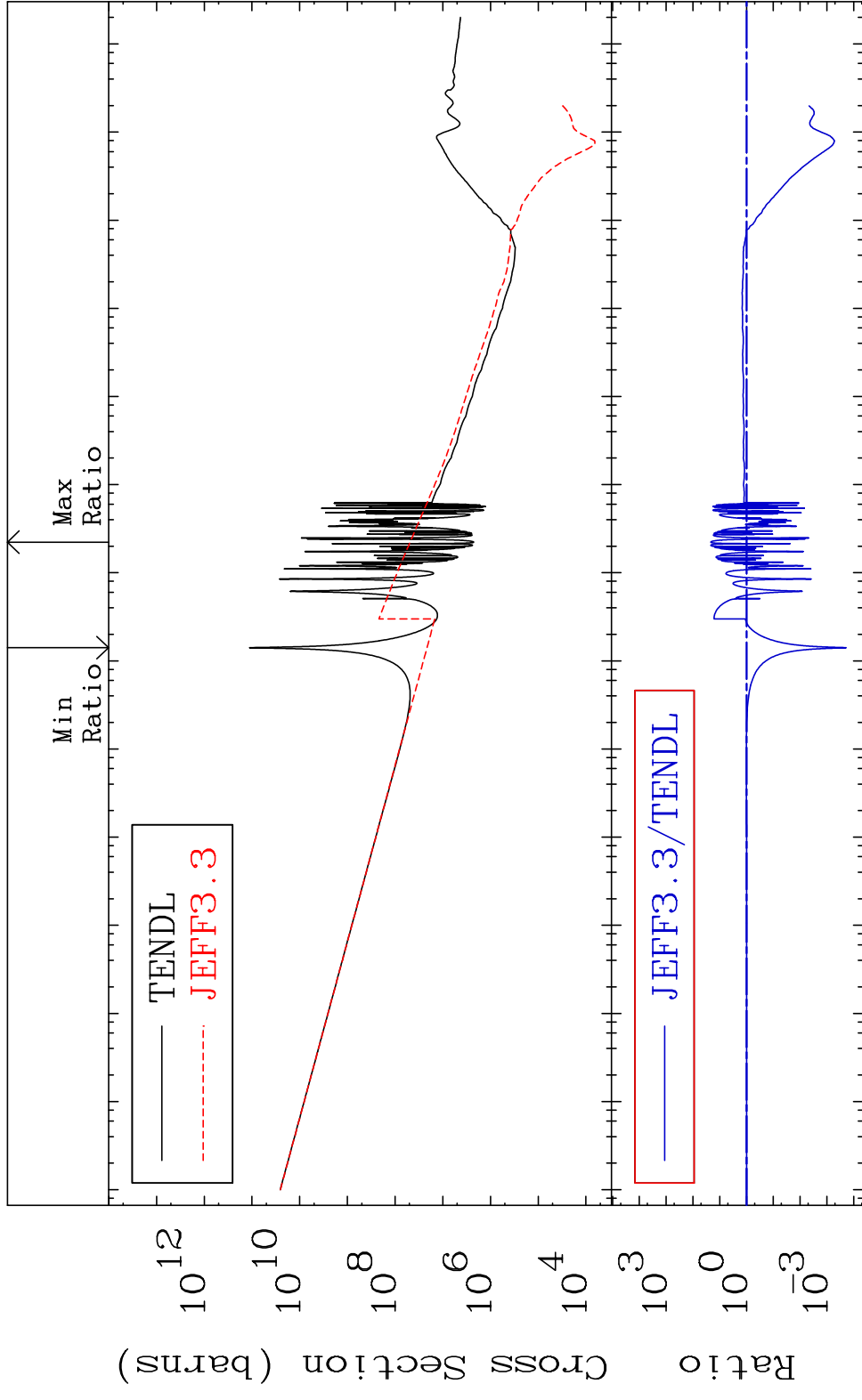
40

Incident Energy (eV)

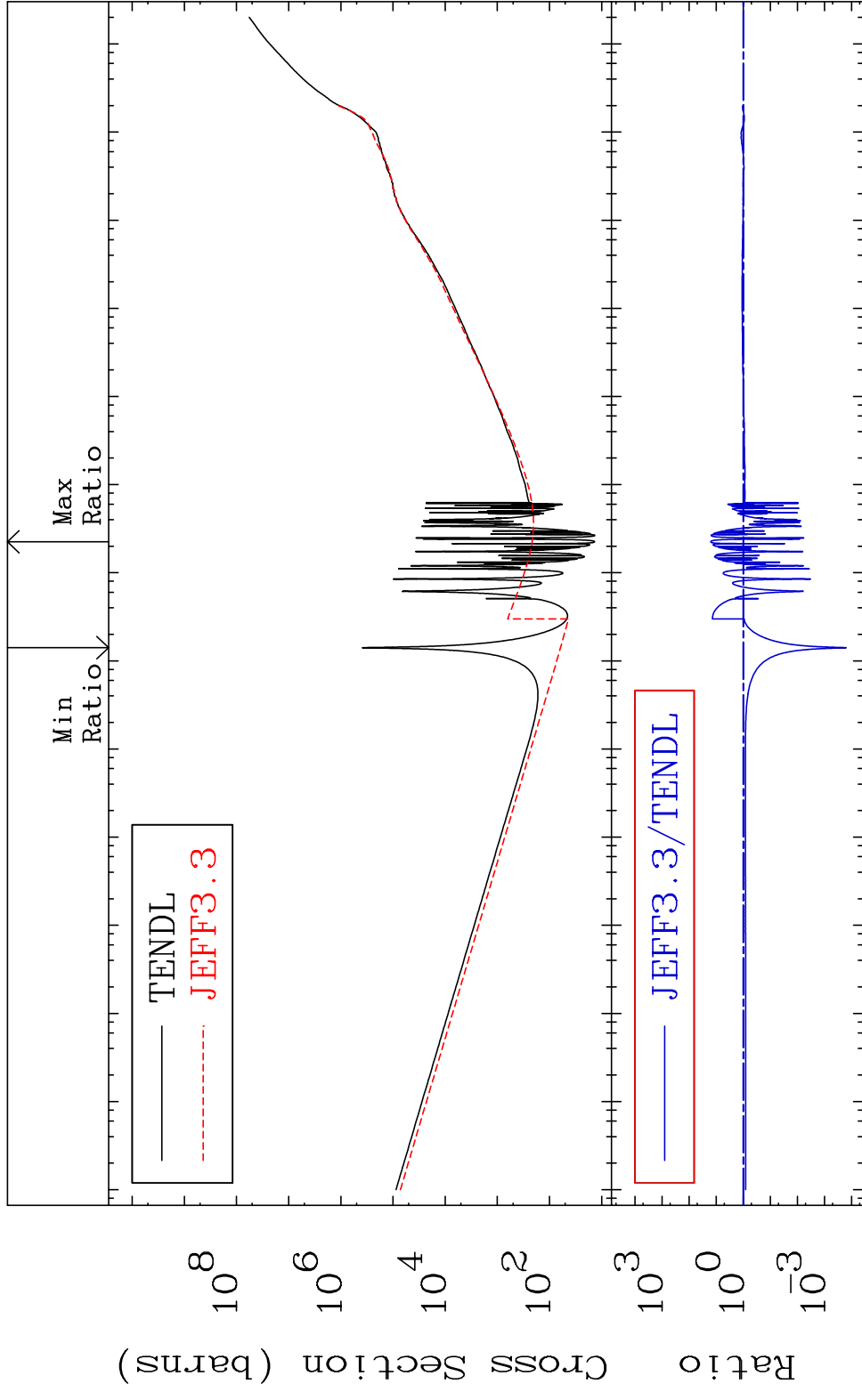
53-I -131

MAT 5337

Total photon (eV-barns) 53-I -131
Cross Section -99.98 To 2072. %



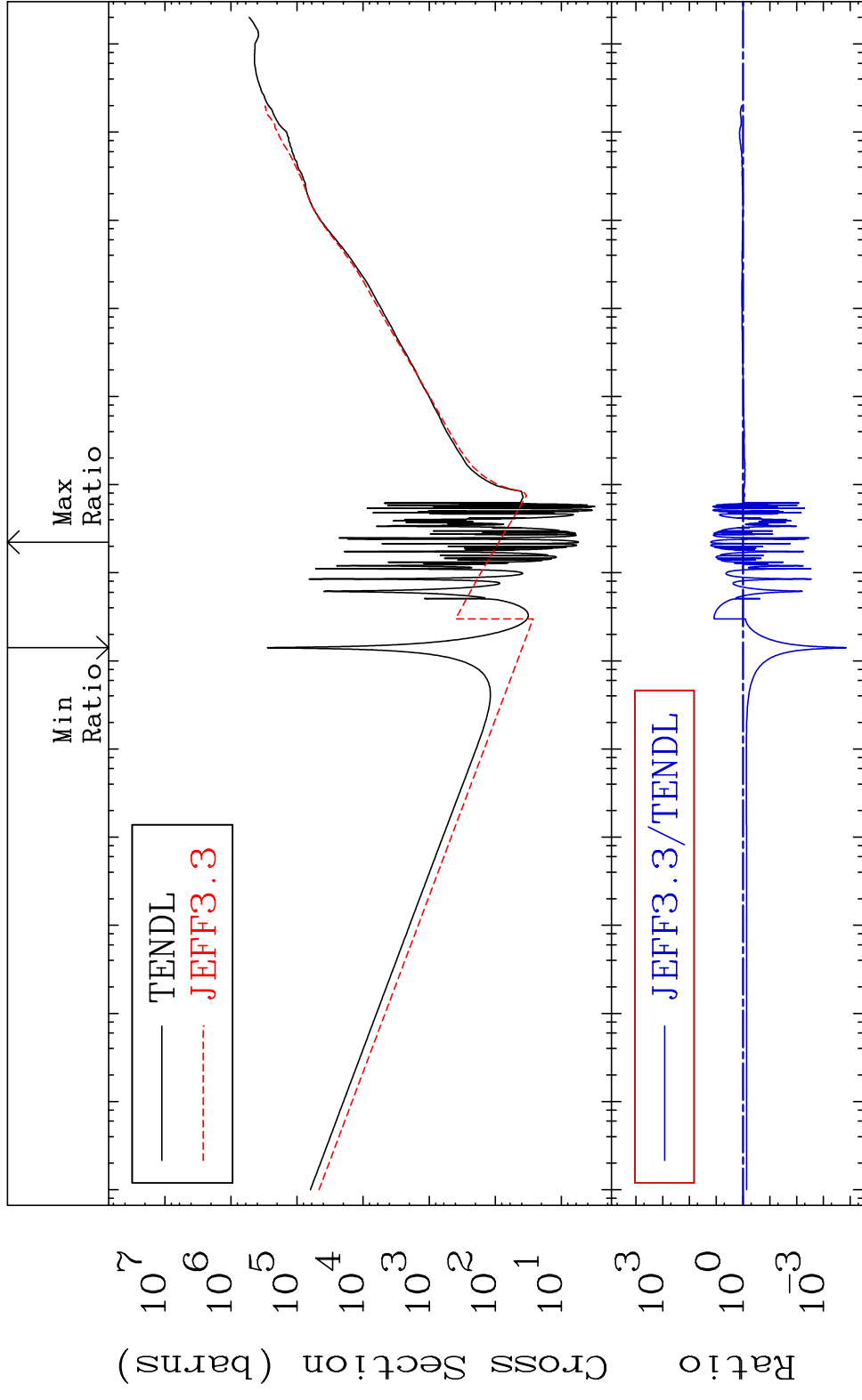
MAT 5337 Total kinematic kerma (high limit) 53-I -131
 Cross Section -99.98 To 1490. %



Ratio
 Cross Section (barns)

42 Incident Energy (eV) 53-I -131

MAT 5337 Dpa total (eV-barns) 53-I -131
 Cross Section -99.99 To 1513. %



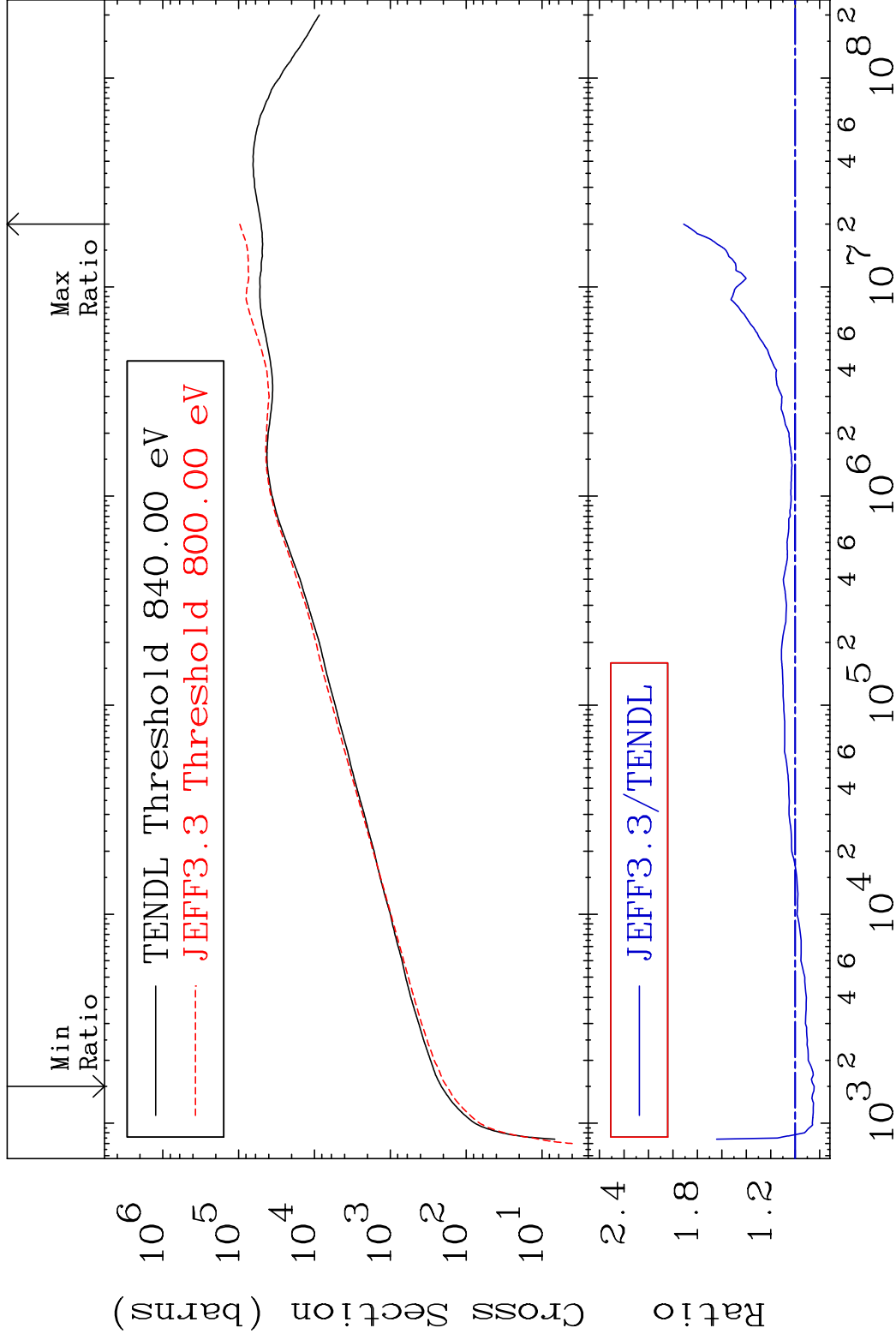
43 Incident Energy (eV) 53-I -131

MAT 5337

Dpa elastic (mt2)

53-I -131

Cross Section -15.47 To 91.19 %



44

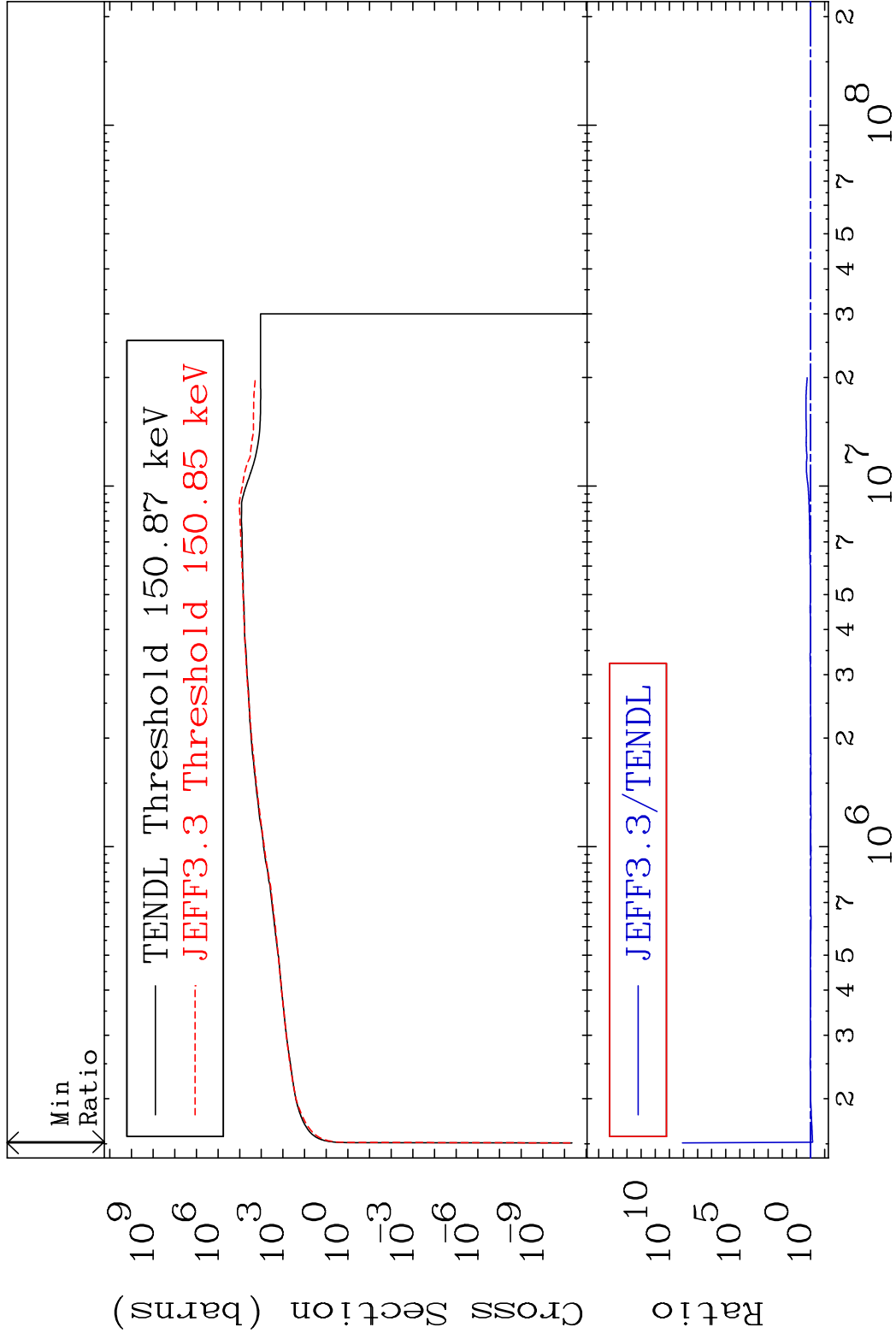
Incident Energy (eV)

53-I -131

MAT 5337

Dpa inelastic (mt51-91) 53-I -131

Cross Section -28.68 To 9999. %

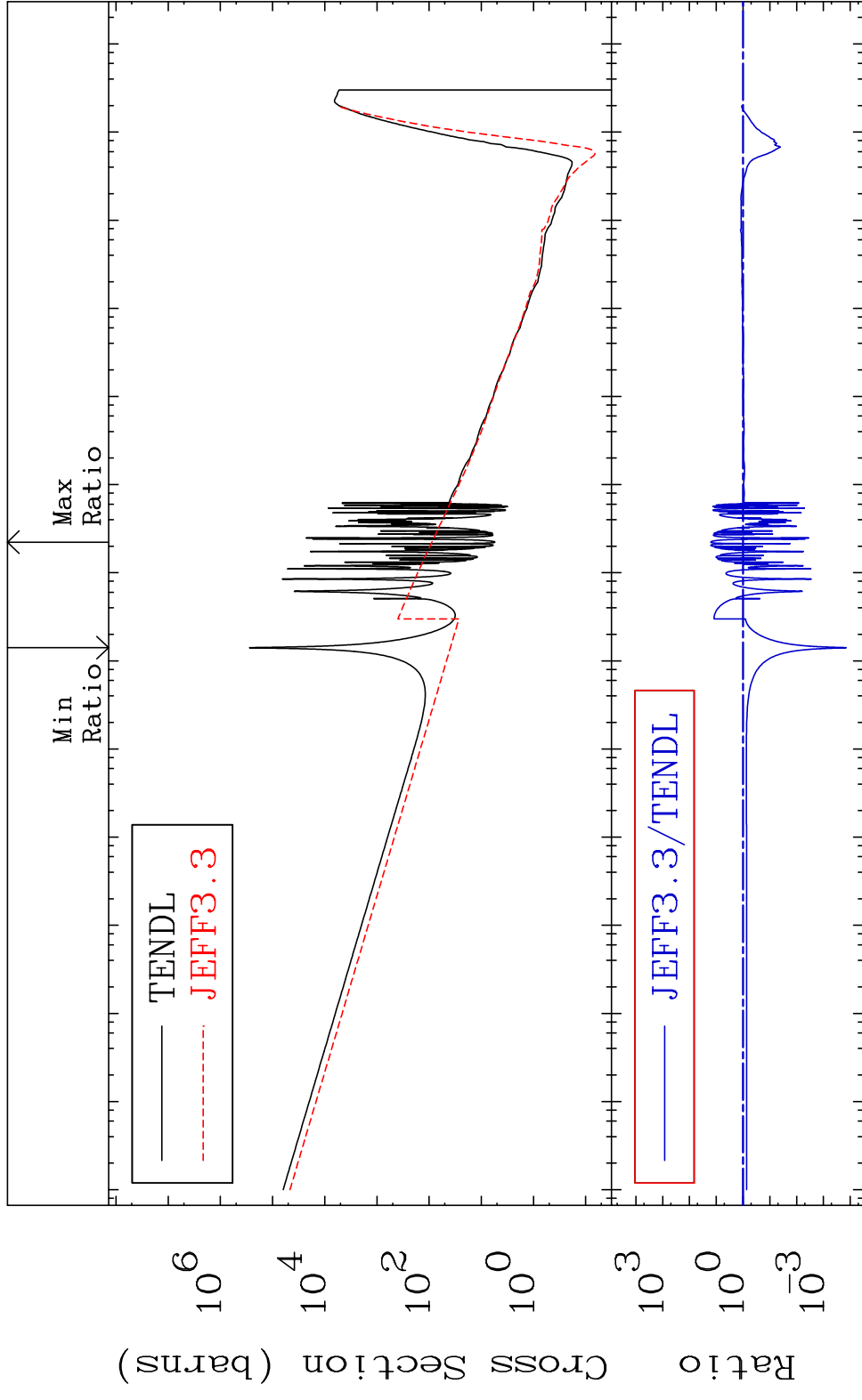


45

Incident Energy (eV)

53-I -131

MAT 5337 Dpa disappearance (mt102 -120) 53-I -131
 Cross Section -99.99 To 1513. %



Ratio
 10⁶
 10⁴
 10²
 10⁰
 10⁻²
 10⁻⁴
 10⁻⁶
 10⁻⁸

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

46 Incident Energy (eV) 53-I -131