

Program Complot
(Version 2021-1)

by

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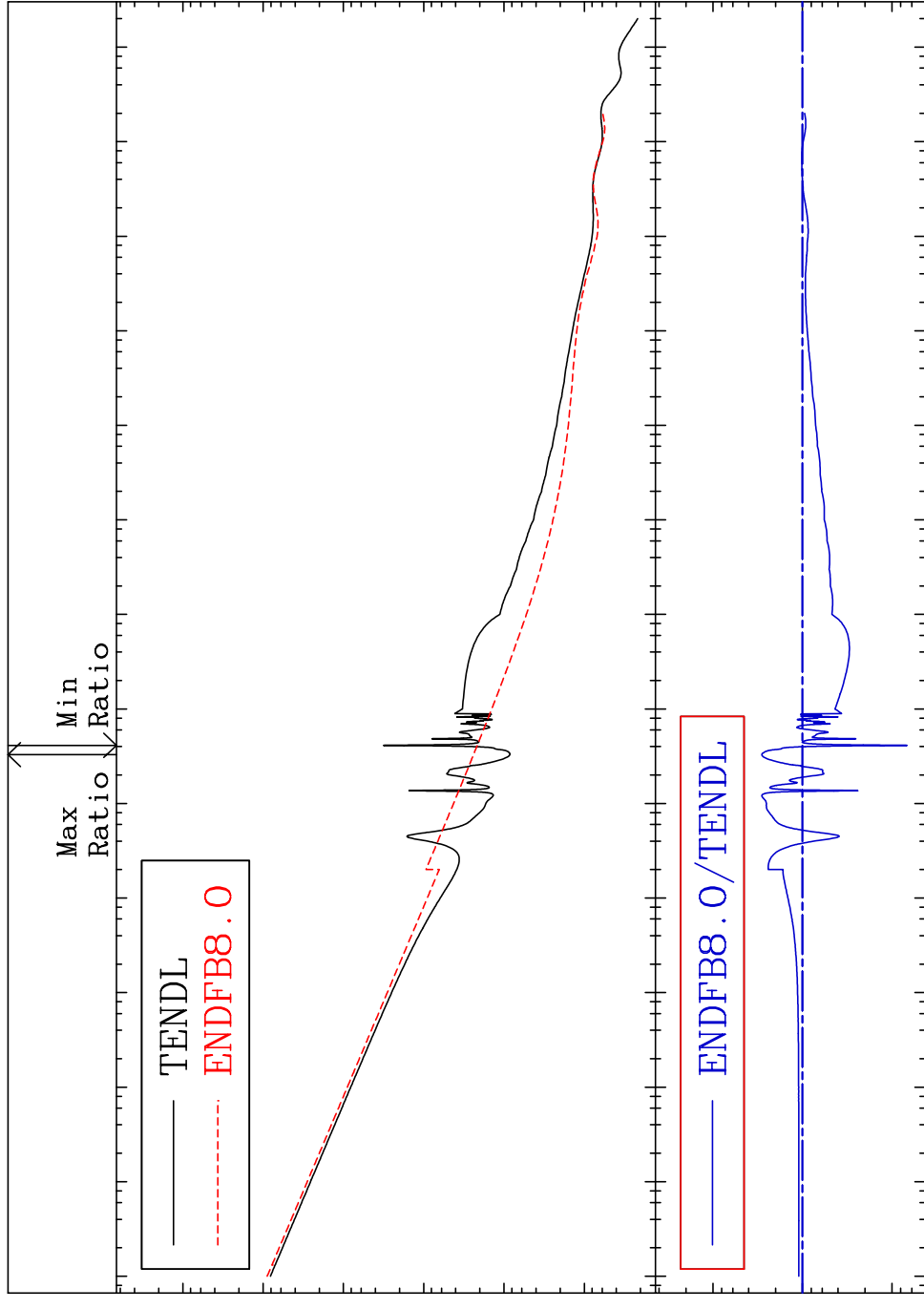
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 9540

Total
Cross Section -93.23 To 184.2 %

95-Am-240



Ratio
Cross Section (barns)

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

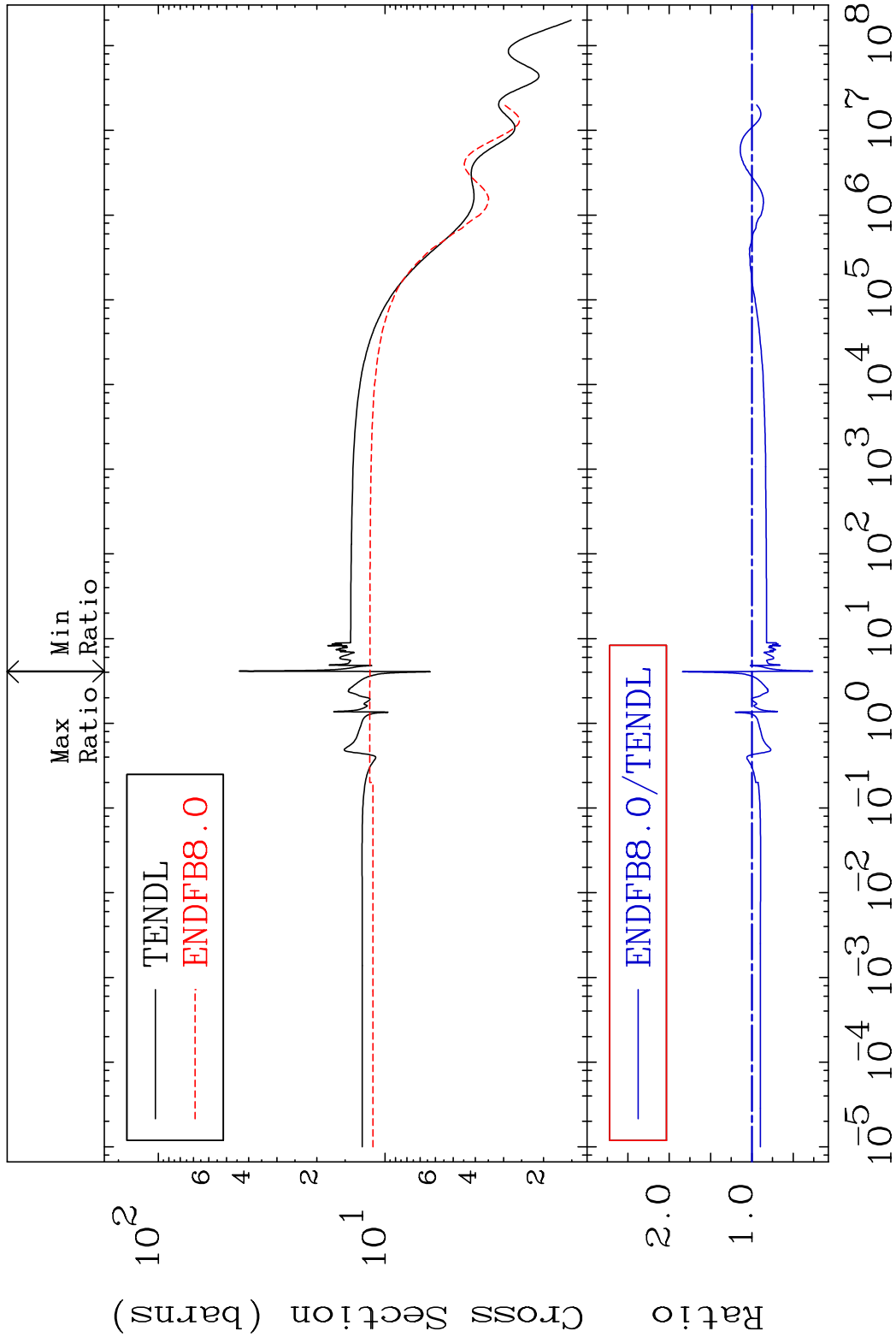
1 Incident Energy (eV) 95-Am-240

MAT 9540

Elastic

95-Am-240

Cross Section -73.45 To 84.13 %



Max Ratio

Min Ratio

TENDL

ENDFB8.0

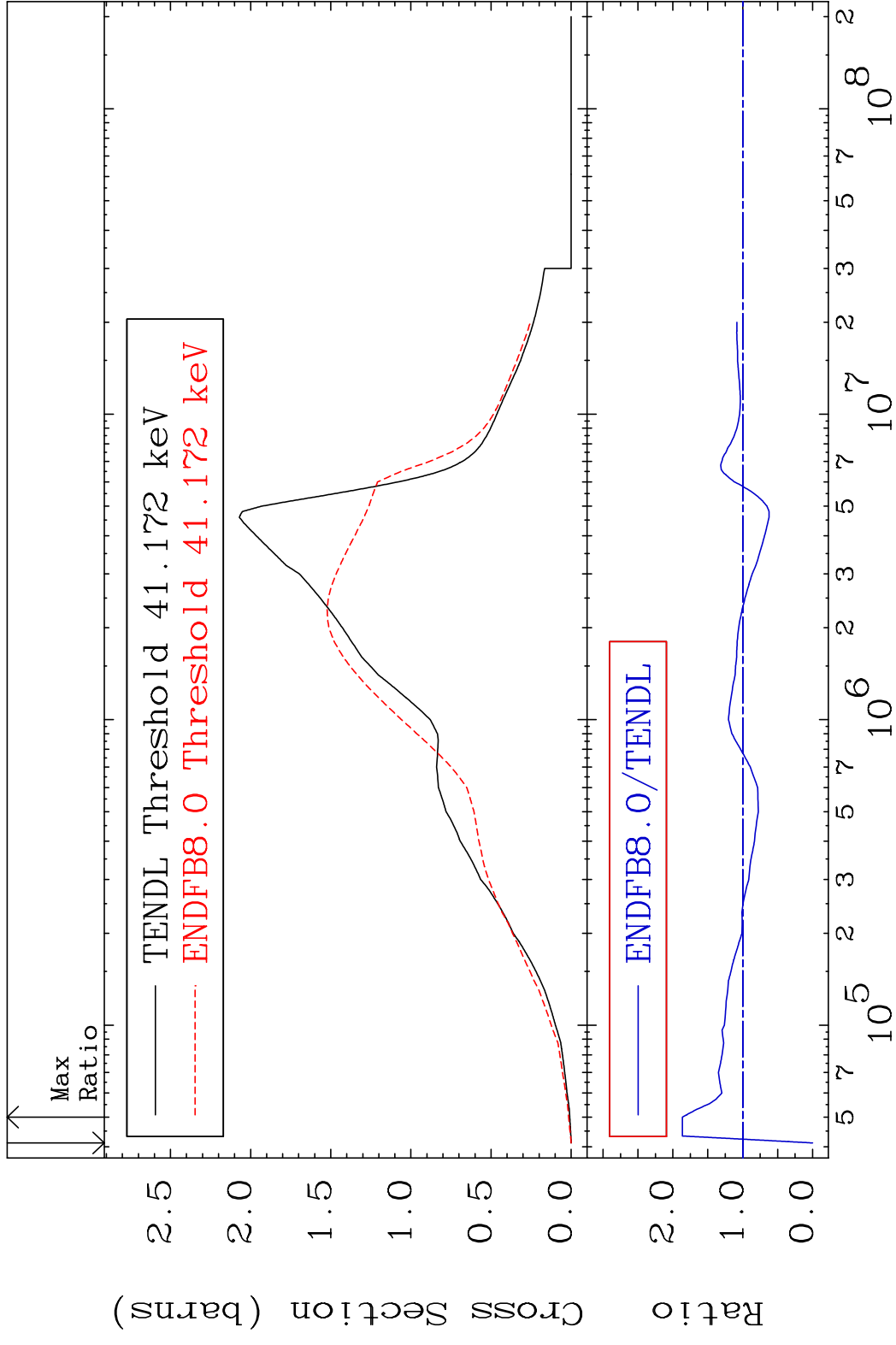
ENDFB8.0/TENDL

2

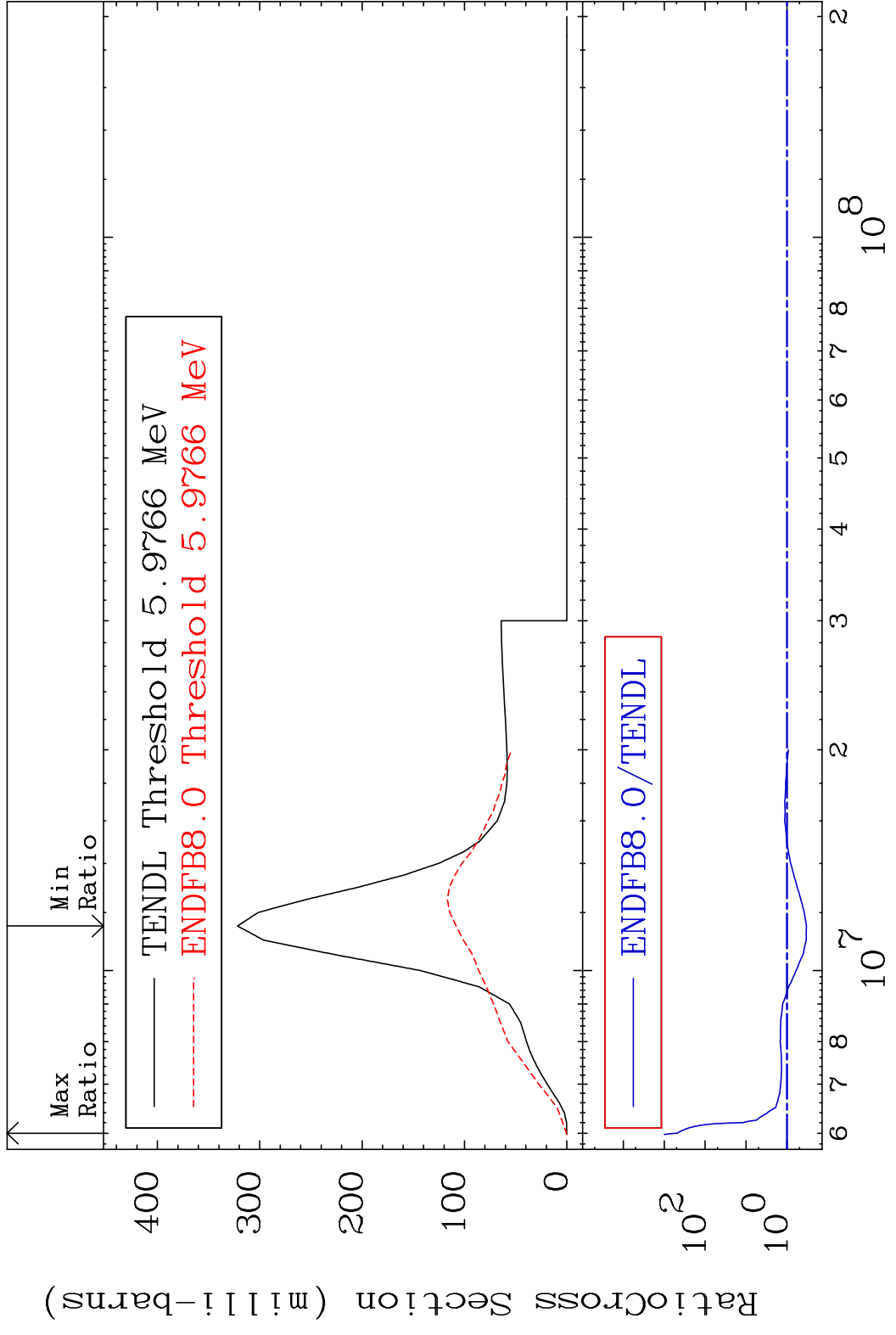
Incident Energy (eV)

95-Am-240

MAT 9540 Inelastic 95-Am-240
 Cross Section -100.0 To 86.44 %



MAT 9540 (n,2n) 95-Am-240
 Cross Section -66.38 To 9999. %



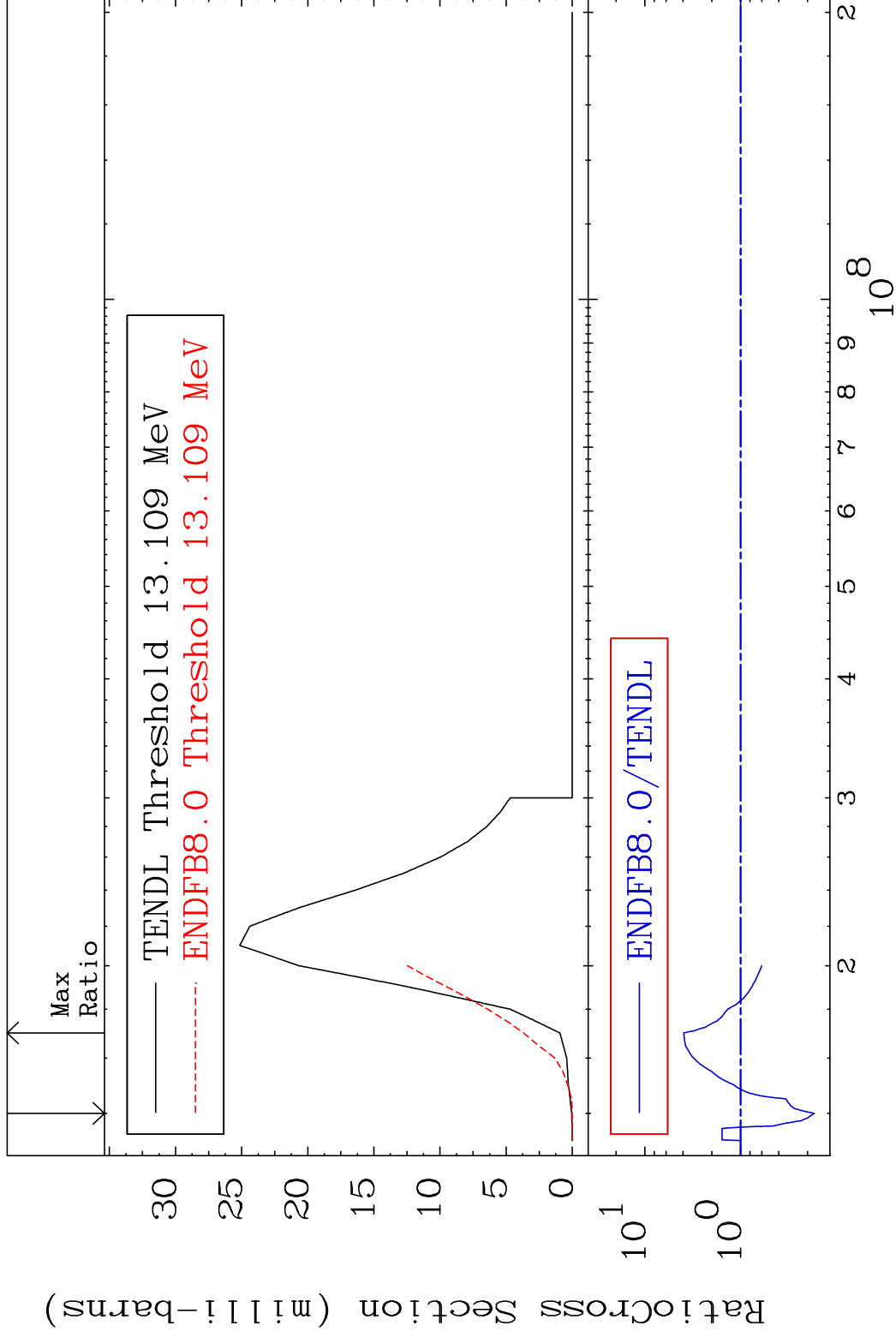
4 Incident Energy (eV) 95-Am-240

MAT 9540

(n,3n)

95-Am-240

Cross Section -82.94 To 293.1 %



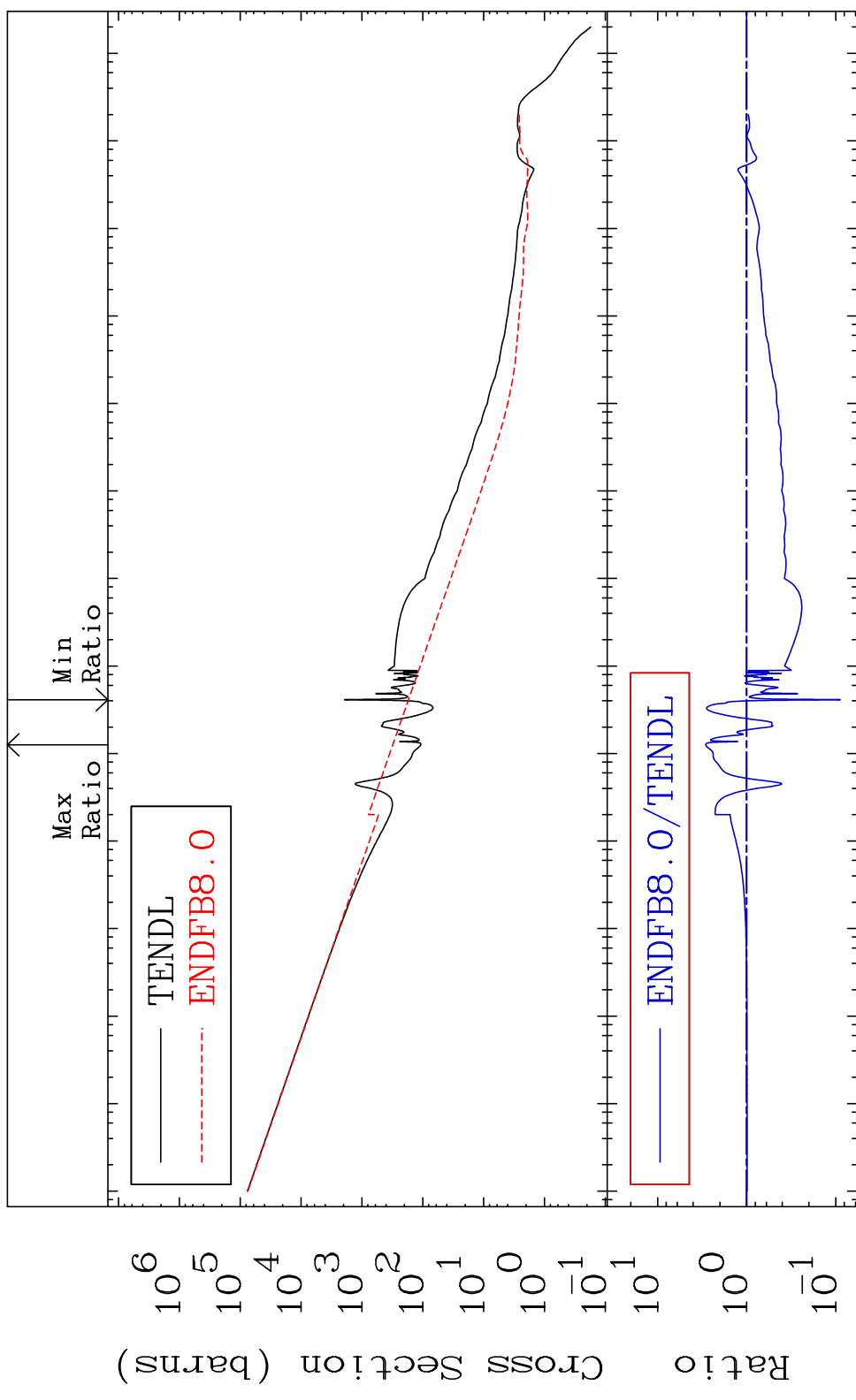
5

Incident Energy (eV)

95-Am-240

MAT 9540

Fission Cross Section -91.15 To 188.0 %
95-Am-240



Ratio Cross Section (barns)

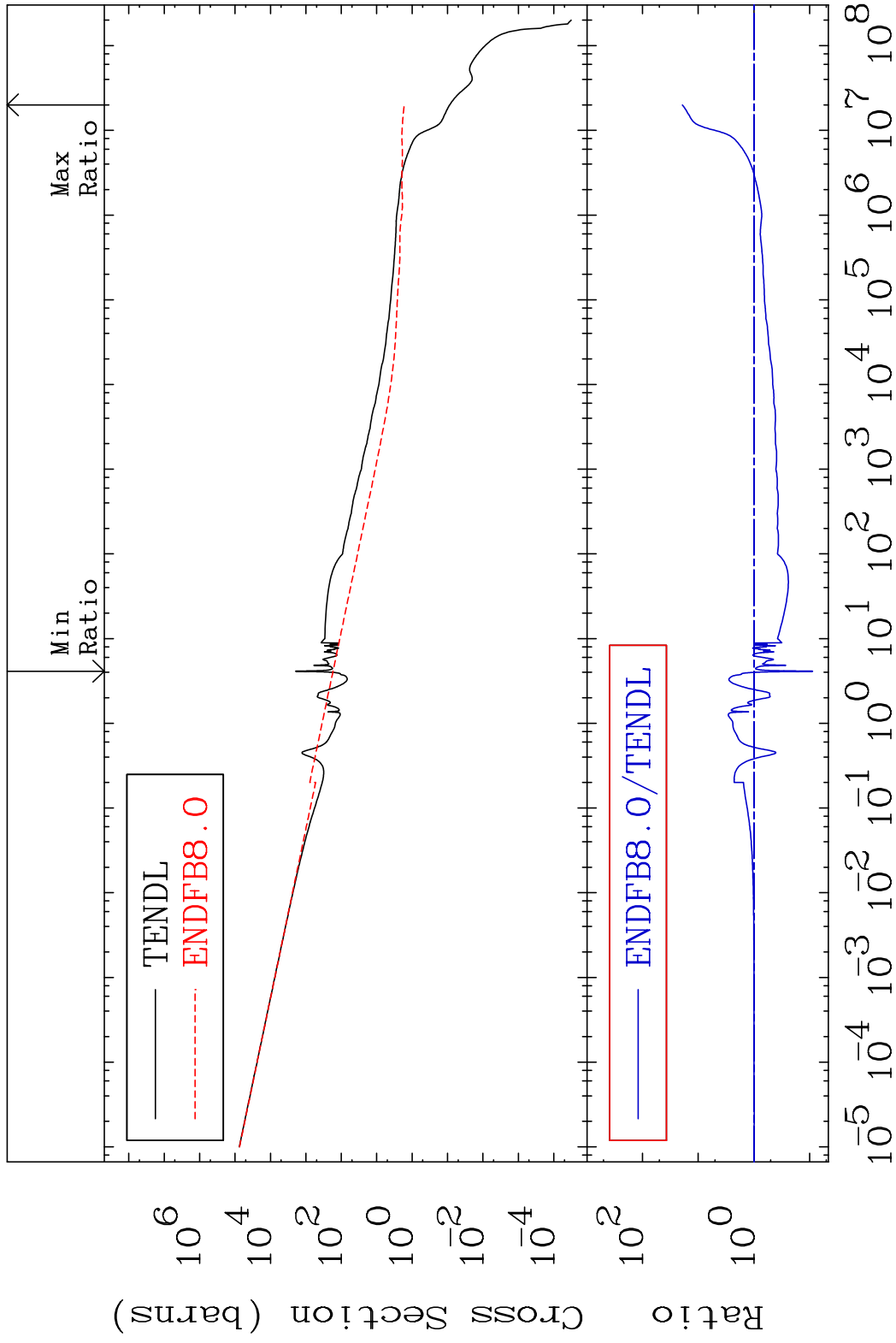
Incident Energy (eV)

MAT 9540

(n,f) First Chance

95-Am-240

Cross Section -91.15 To 1824. %

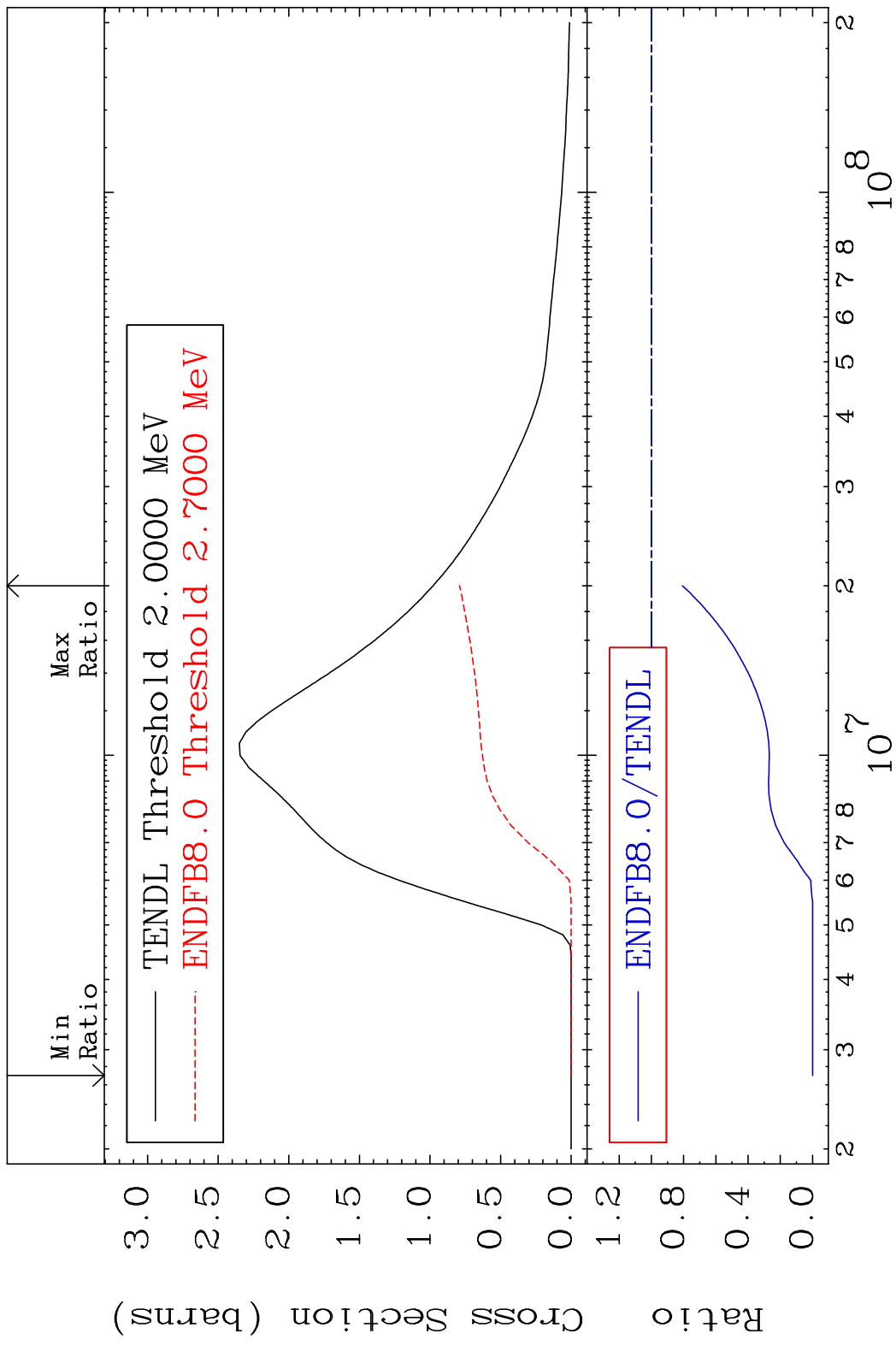


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Incident Energy (eV)

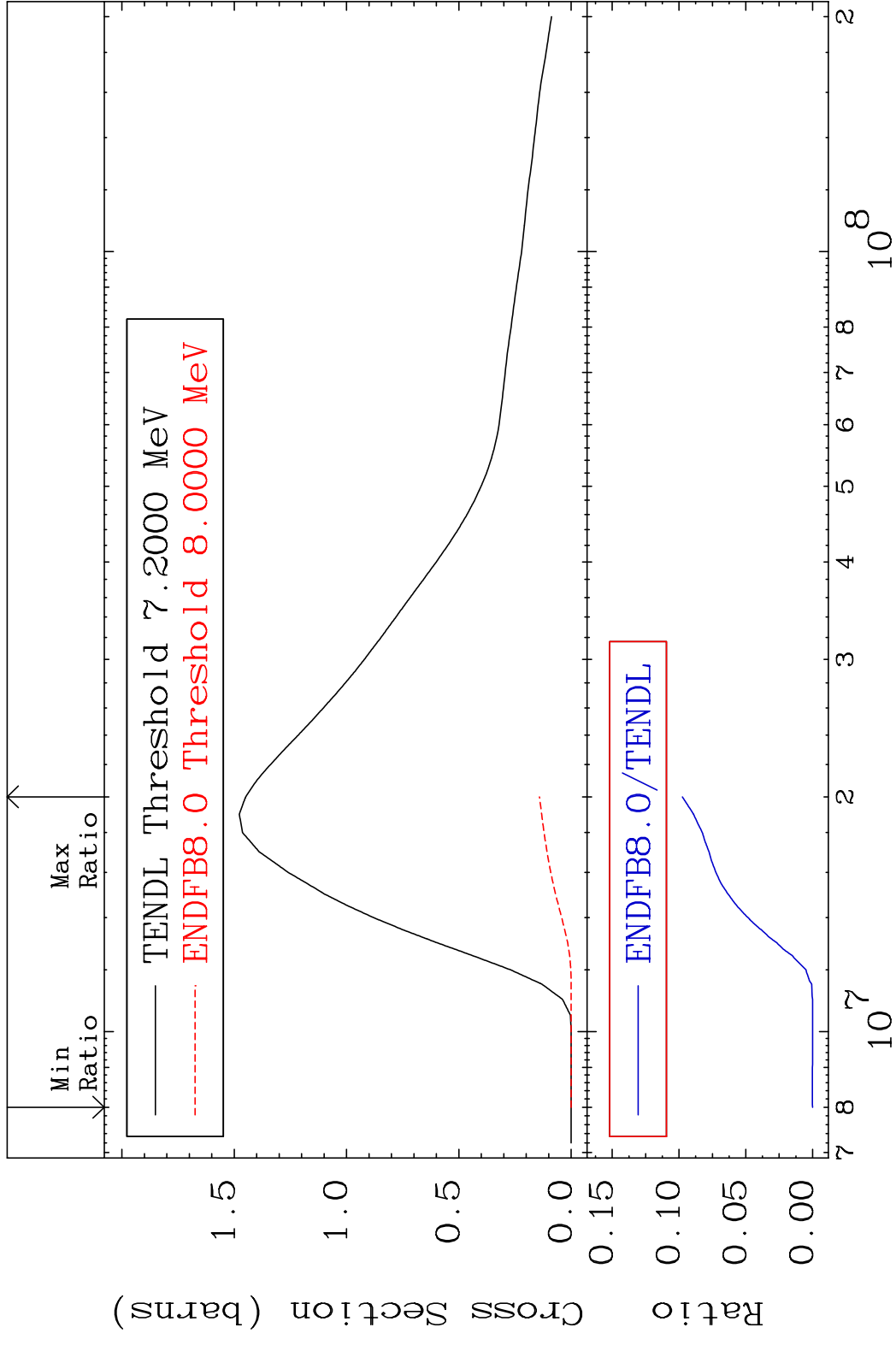
95-Am-240

MAT 9540 (n, nf) Second Chance 95-Am-240
 Cross Section -100.0 To -19.21%



8 Incident Energy (eV) 95-Am-240

MAT 9540 (n,2nf) Third Chance 95-Am-240
 Cross Section -100.0 To -90.25%

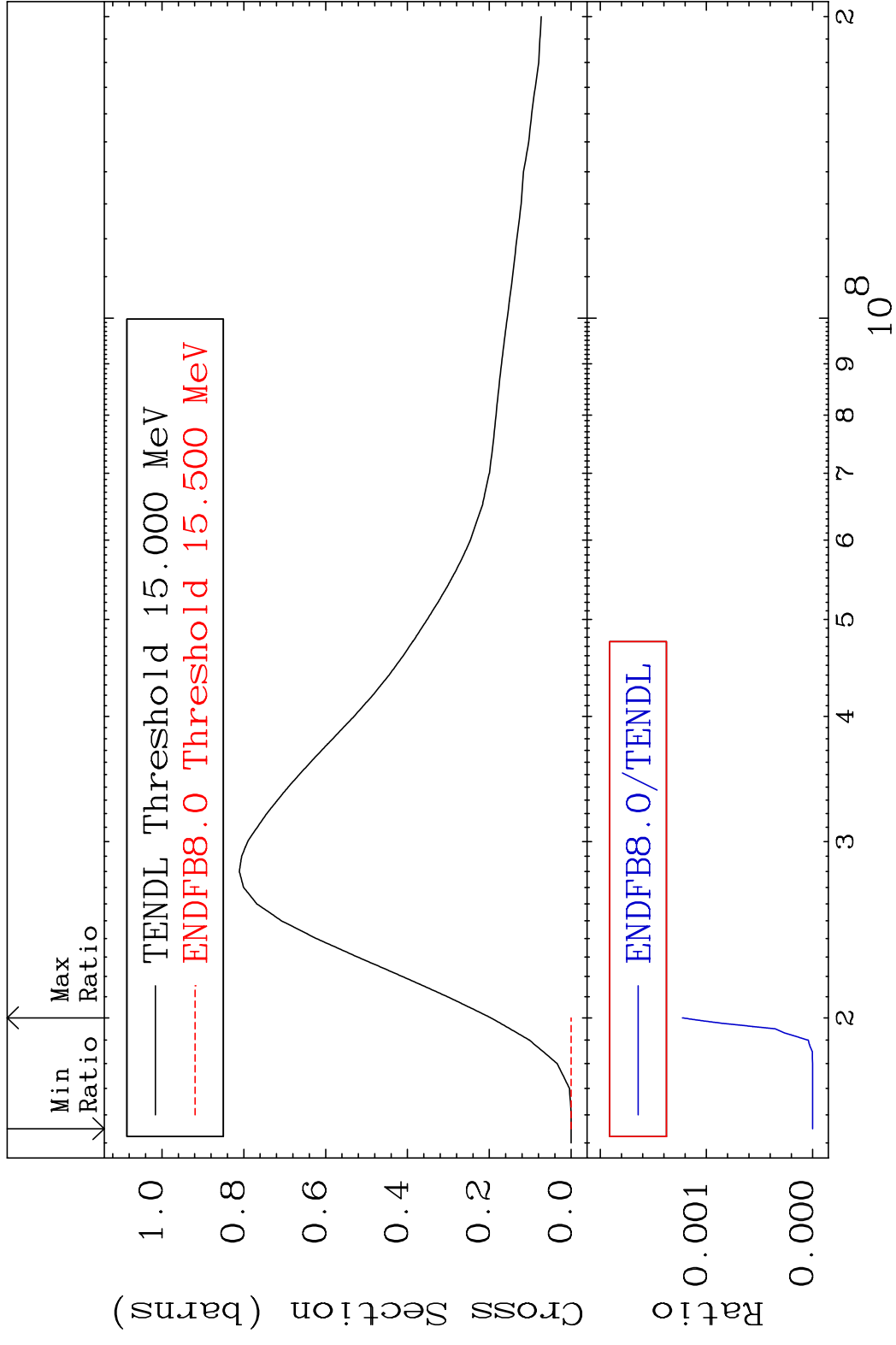


MAT 9540

(n,3nf) Fourth Chance

95-Am-240

Cross Section -100.0 To -99.88%

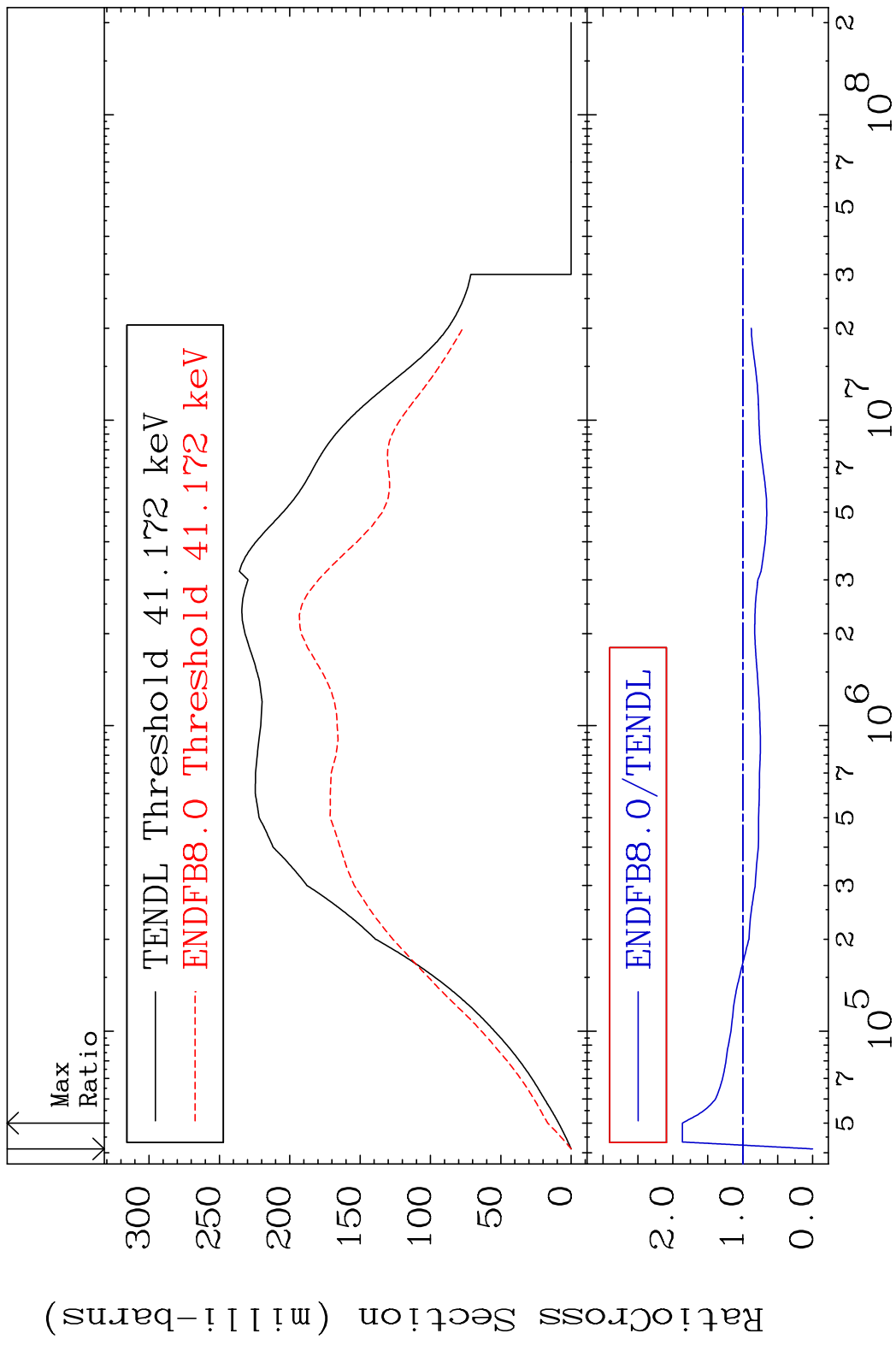


10

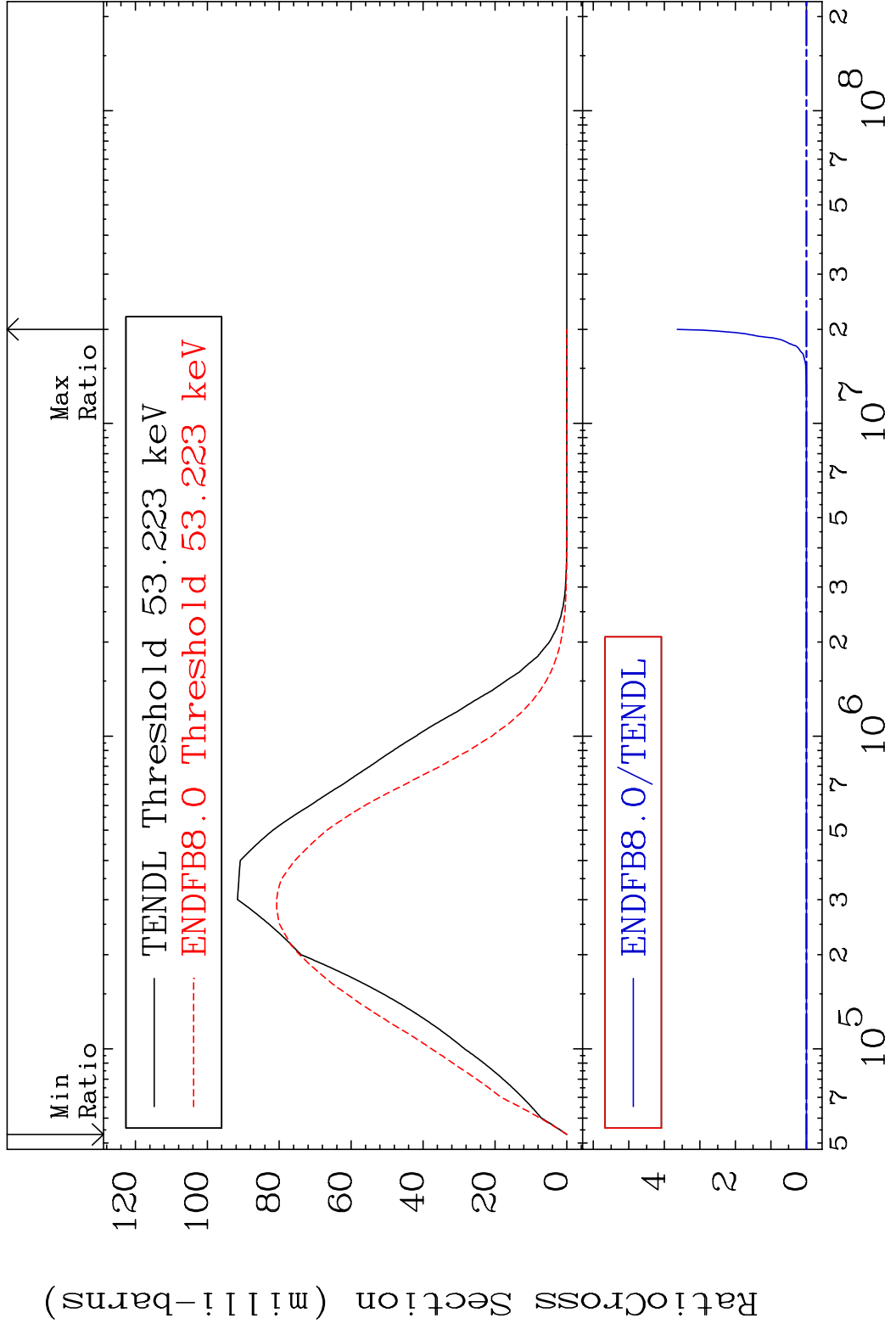
Incident Energy (eV)

95-Am-240

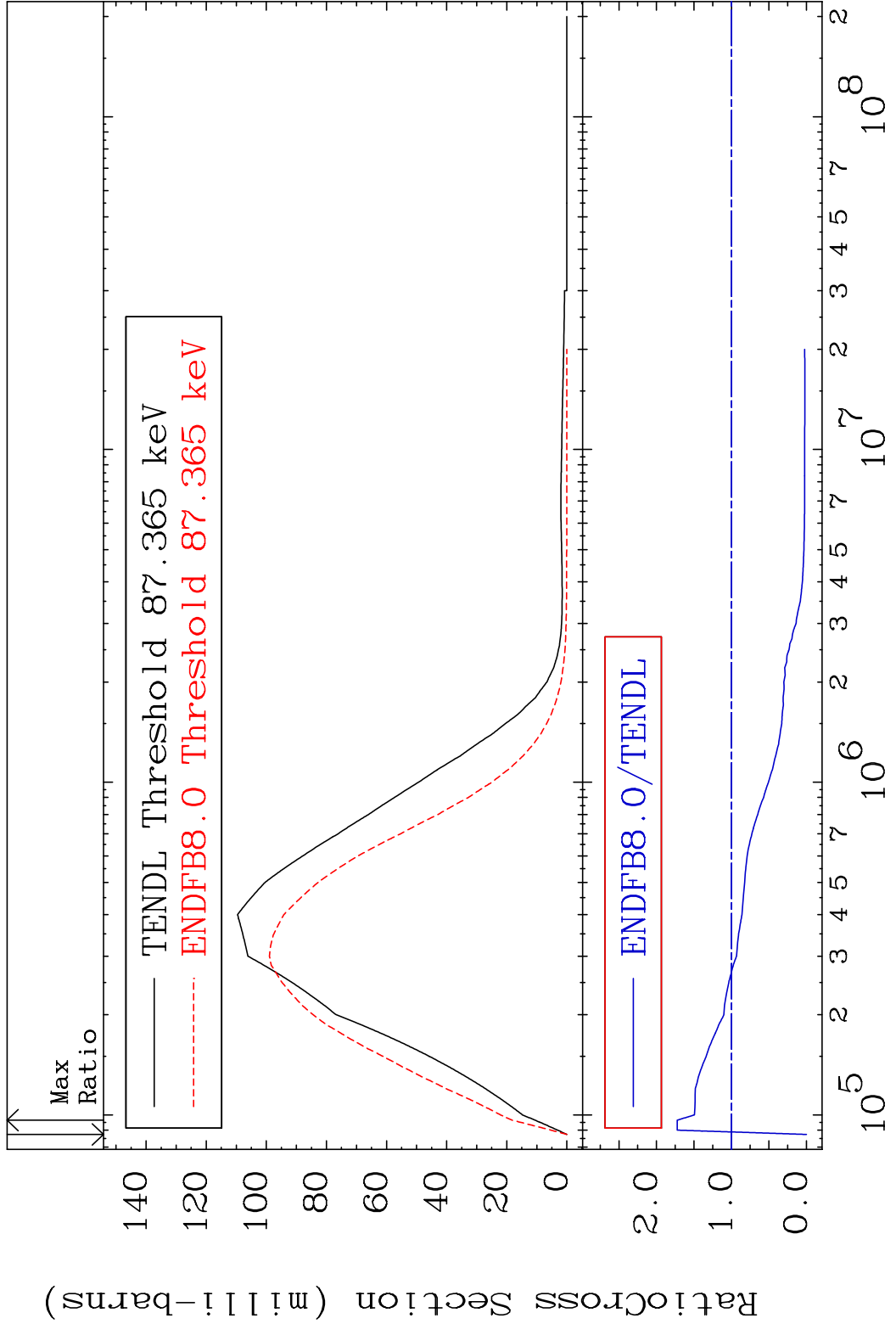
MAT 9540 MT= 51 (n,n') Level 95-Am-240
 Cross Section -100.0 To 86.44 %



MAT 9540 MT= 52 (n, n') Level 95-Am-240
 Cross Section -100.0 To 9999. %

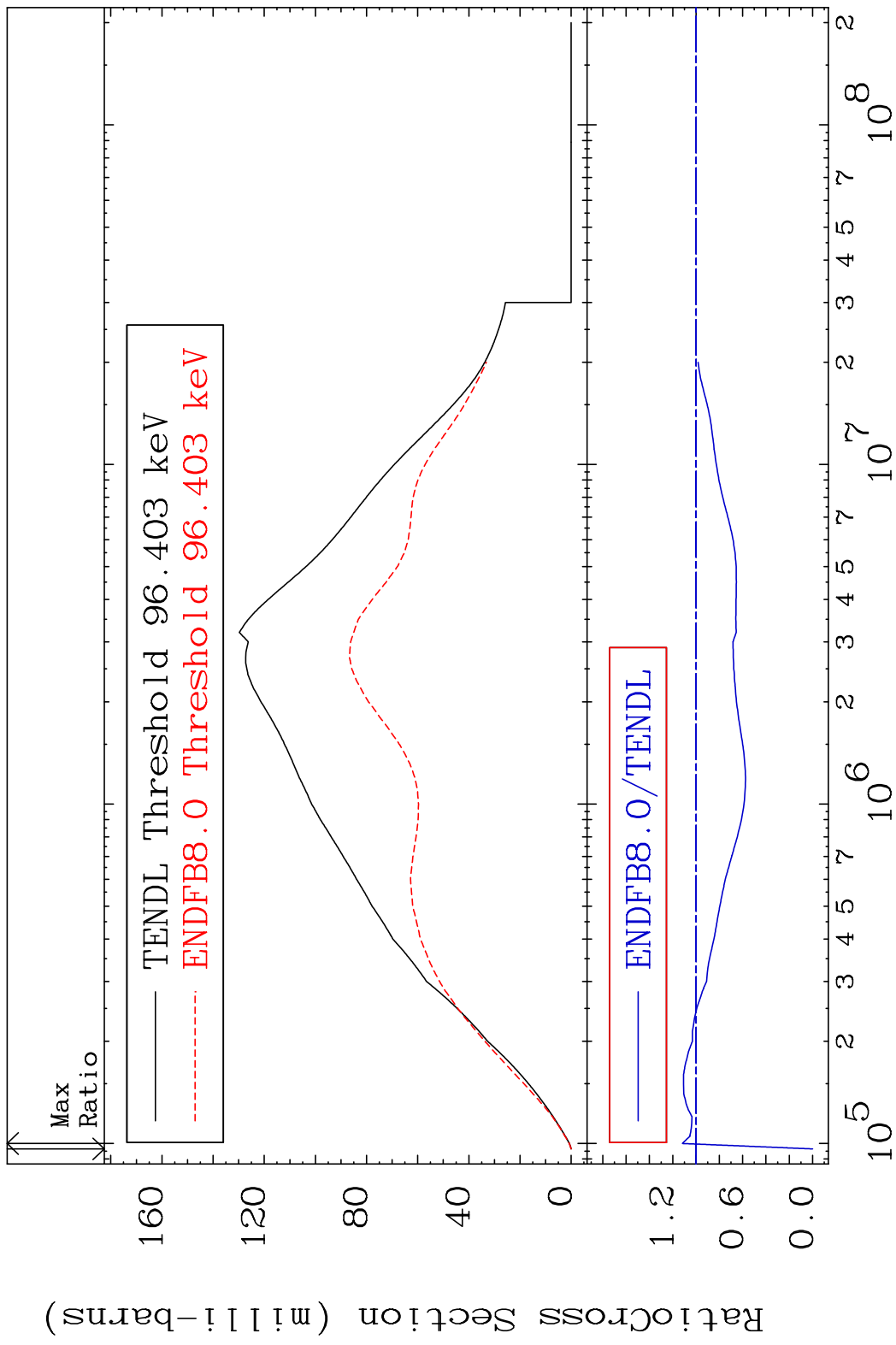


MAT 9540 MT= 53 (n, n') Level 95-Am-240
 Cross Section -100.0 To 72.36 %



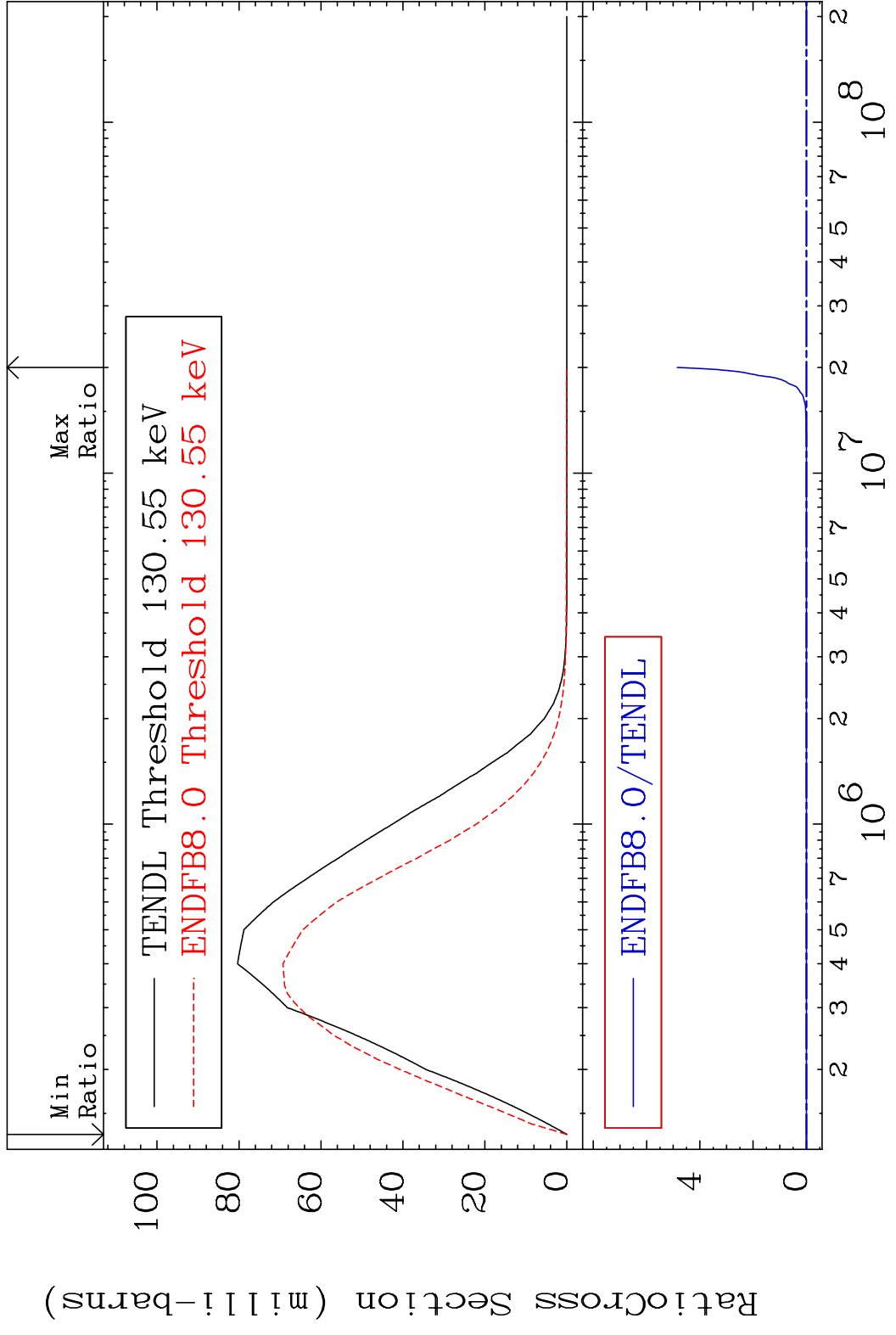
13 Incident Energy (eV) 95-Am-240

MAT 9540 MT= 54 (n, n') Level 95-Am-240
 Cross Section -100.0 To 11.74 %

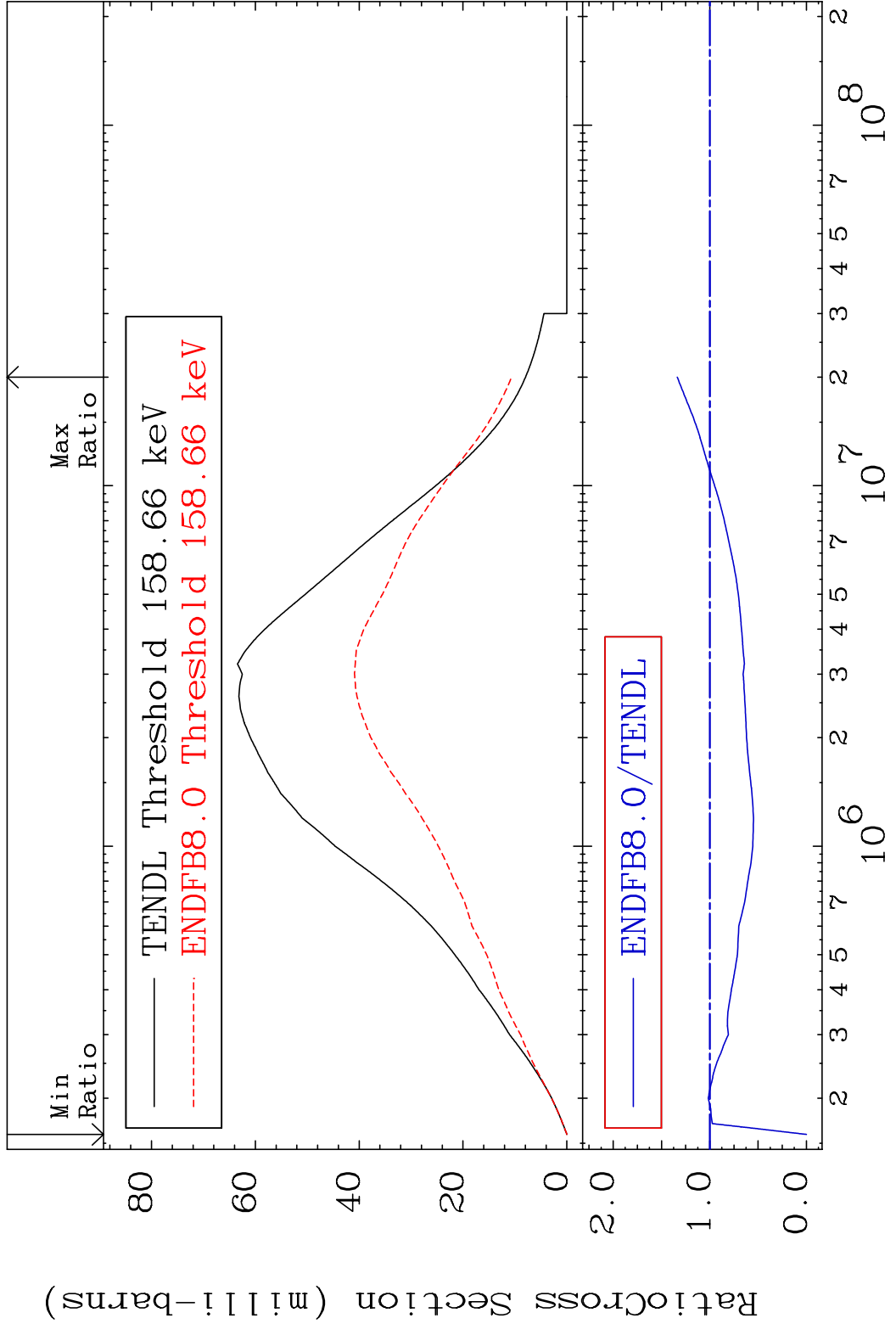


14 Incident Energy (eV) 95-Am-240

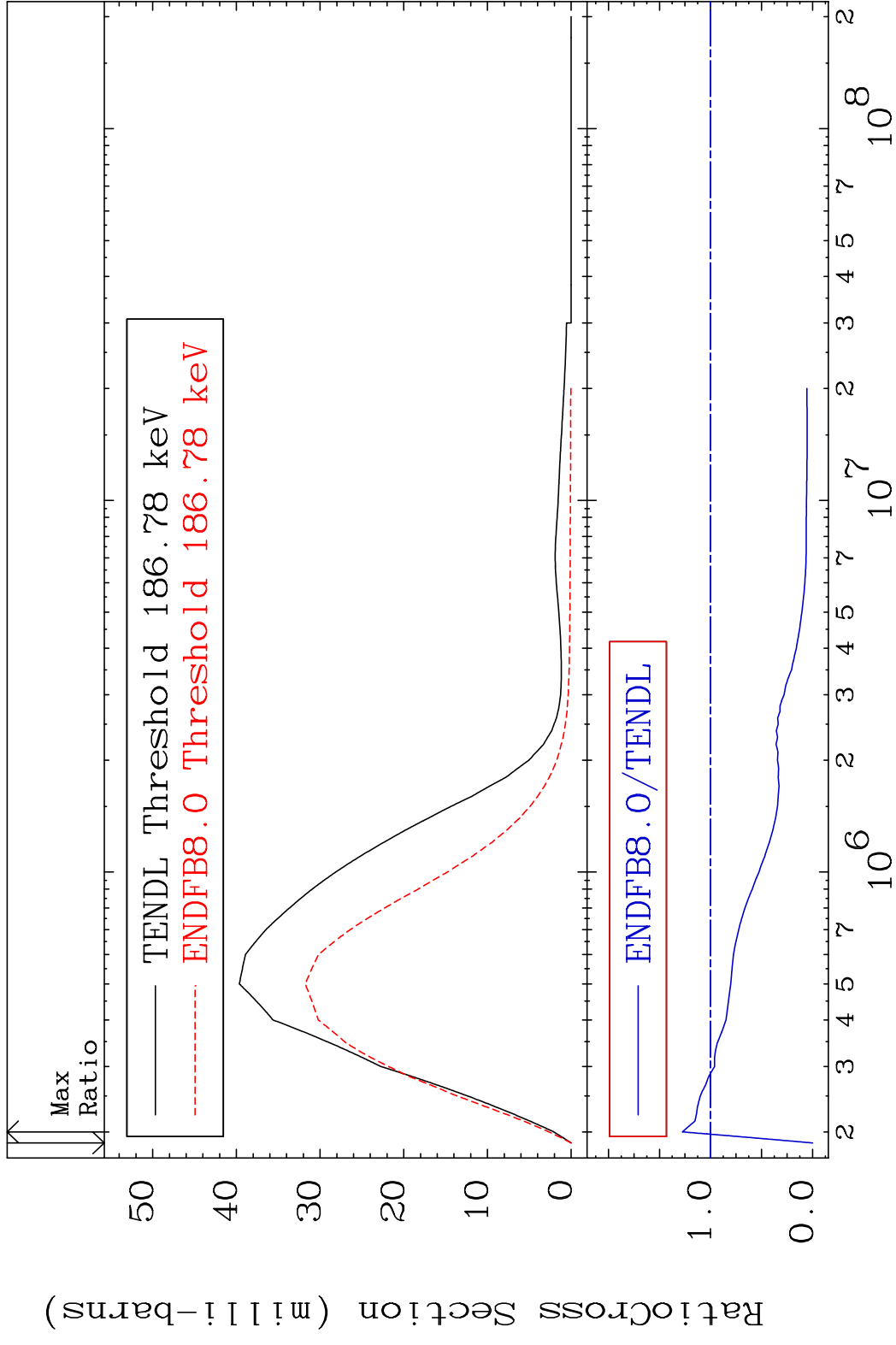
MAT 9540 MT= 55 (n,n') Level 95-Am-240
 Cross Section -100.0 To 9999. %



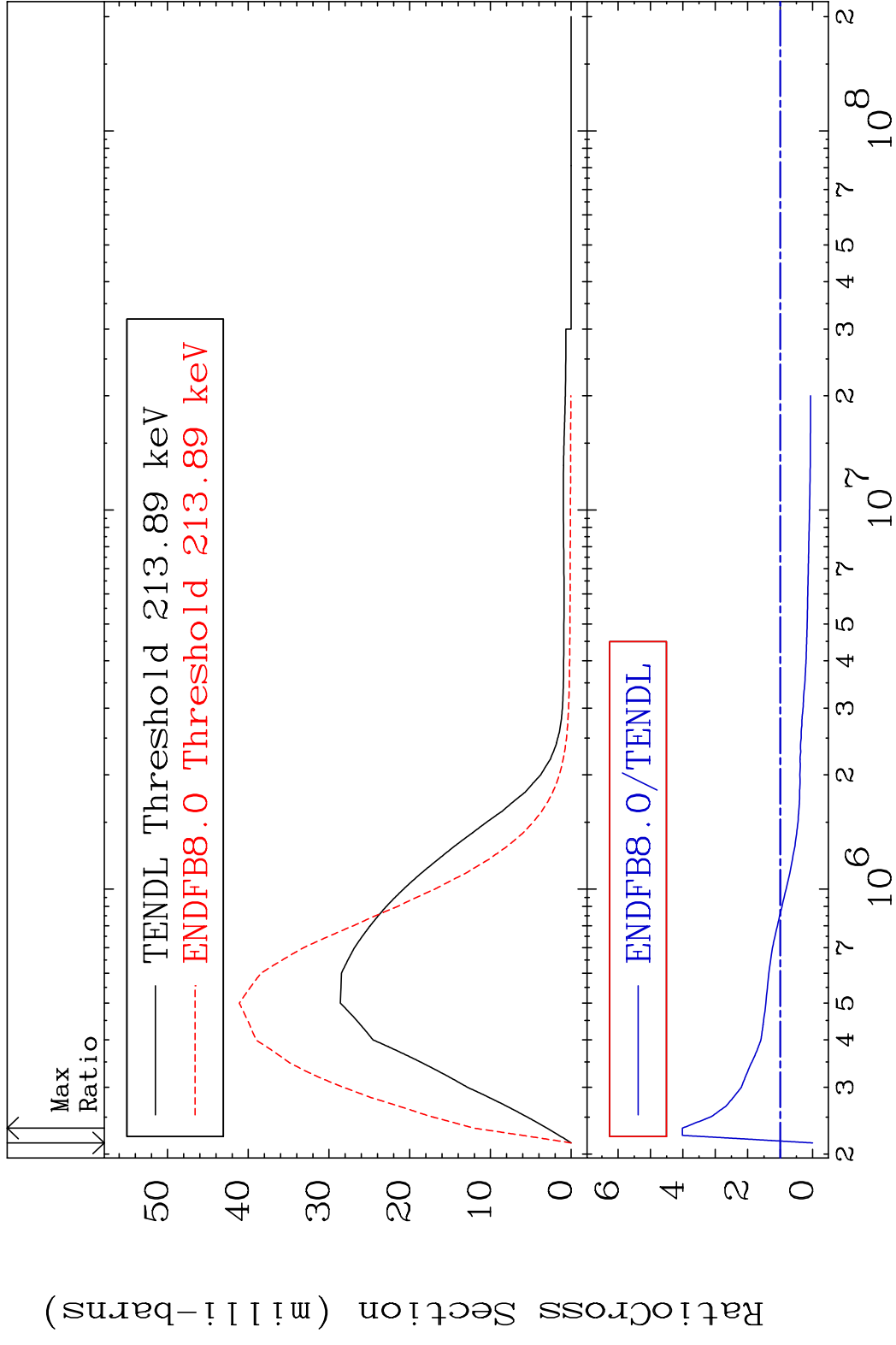
MAT 9540 MT= 56 (n, n') Level 95-Am-240
 Cross Section -100.0 To 33.76 %



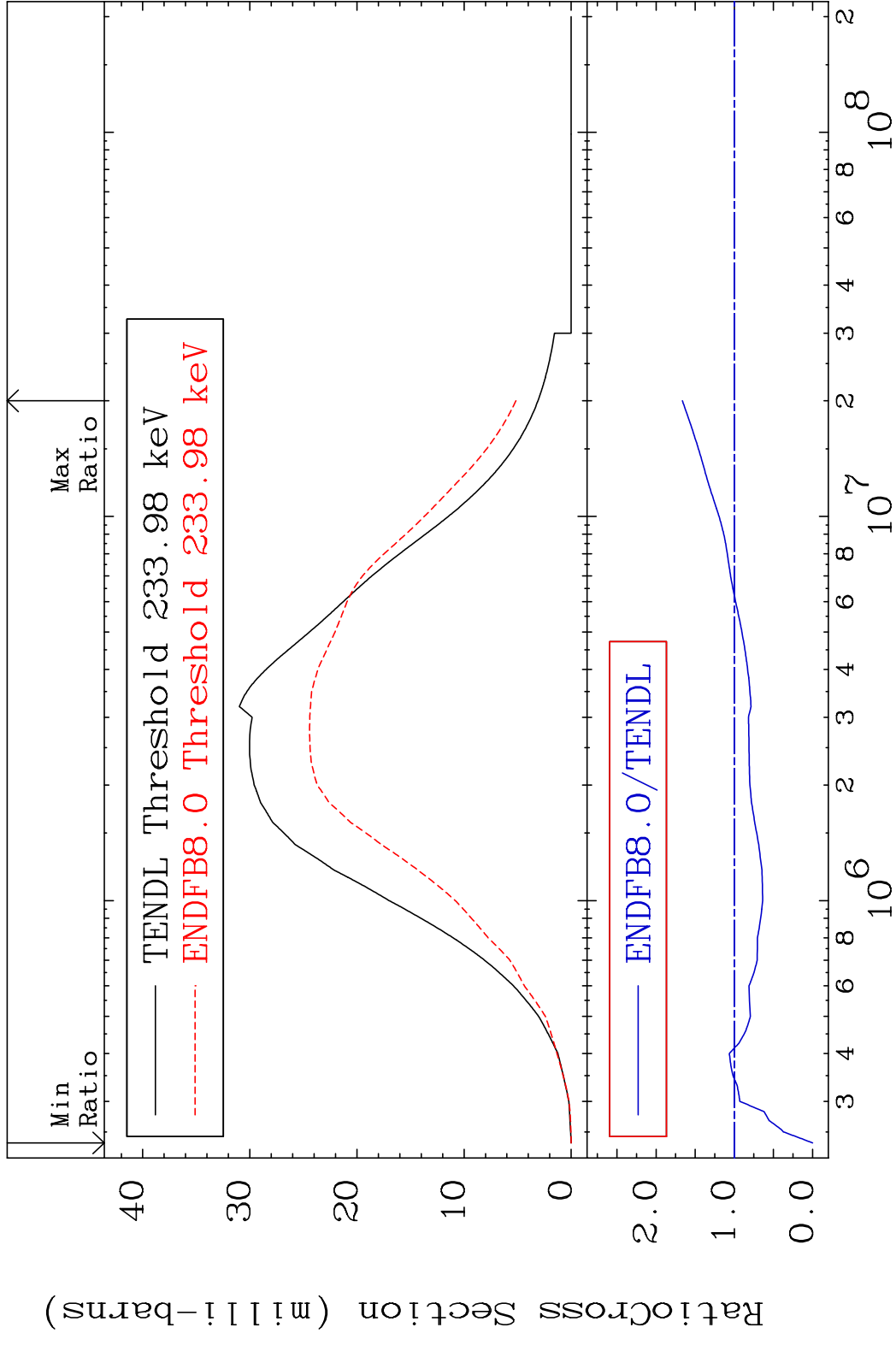
MAT 9540 MT= 57 (n,n') Level 95-Am-240
 Cross Section -100.0 To 27.58 %



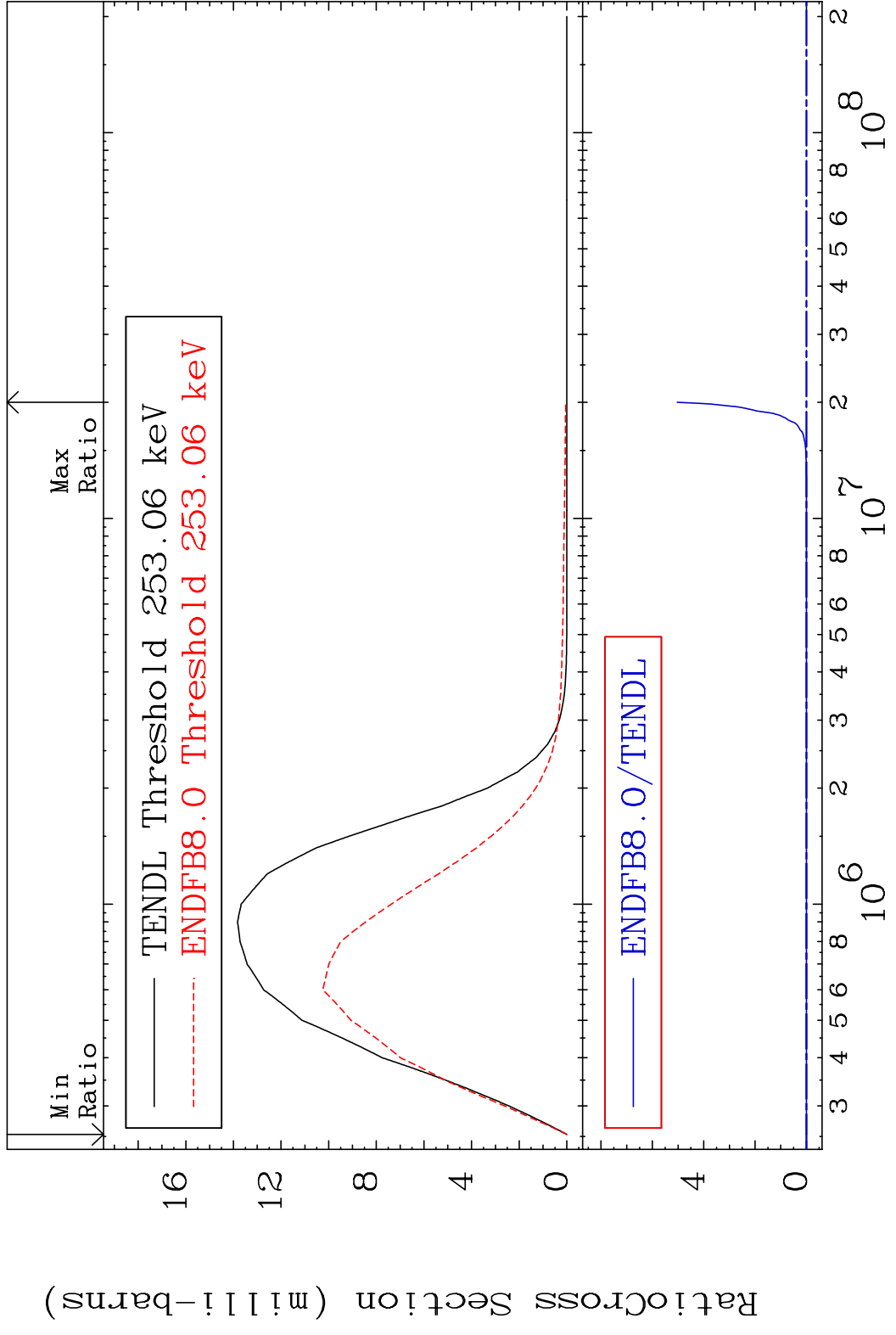
MAT 9540 MT= 58 (n, n') Level 95-Am-240
 Cross Section -100.0 To 301.6 %



MAT 9540 MT= 59 (n, n') Level 95-Am-240
 Cross Section -100.0 To 66.40 %

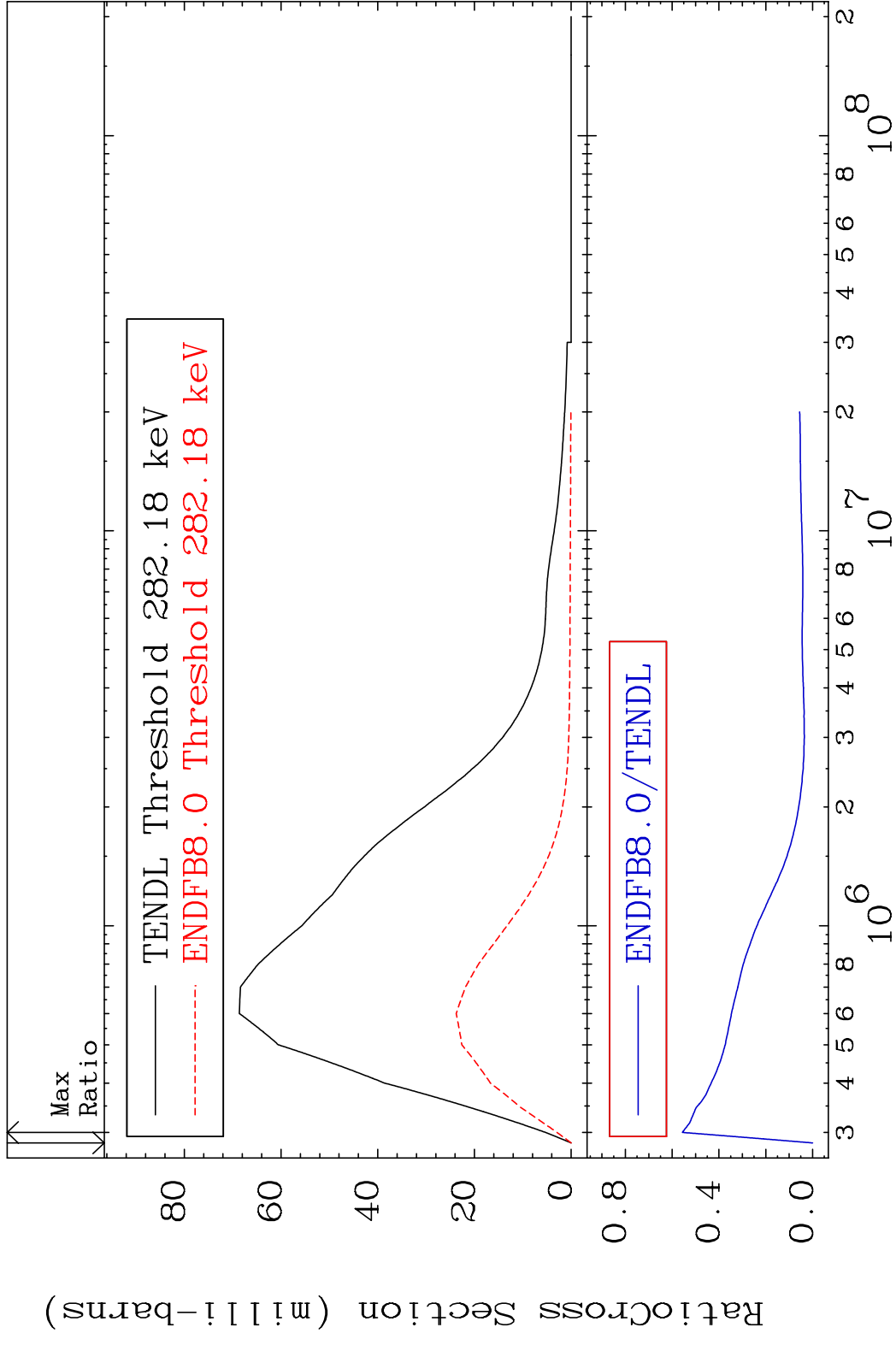


MAT 9540 MT= 60 (n,n') Level 95-Am-240
 Cross Section -100.0 To 9999. %

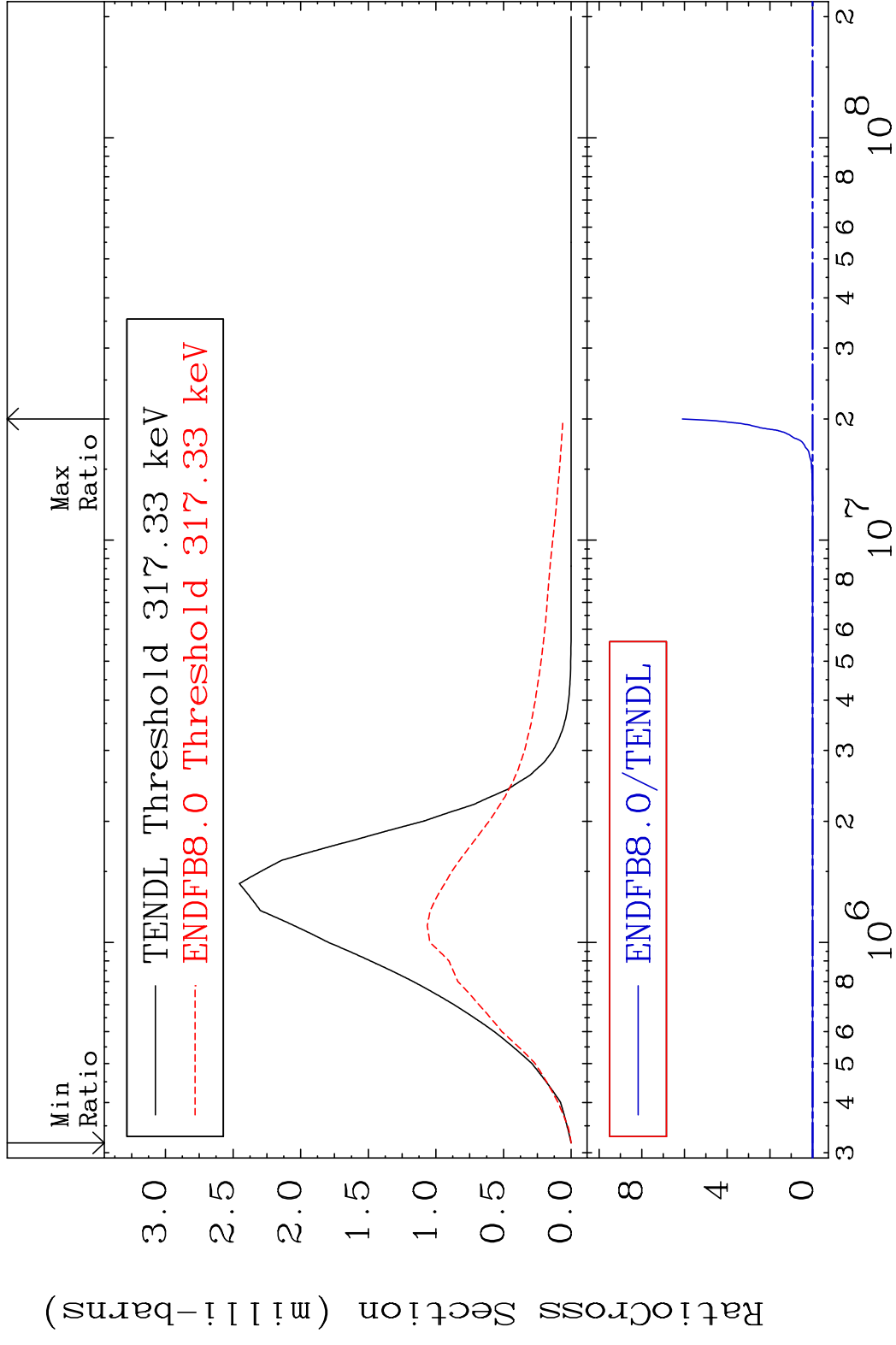


20 Incident Energy (eV) 95-Am-240

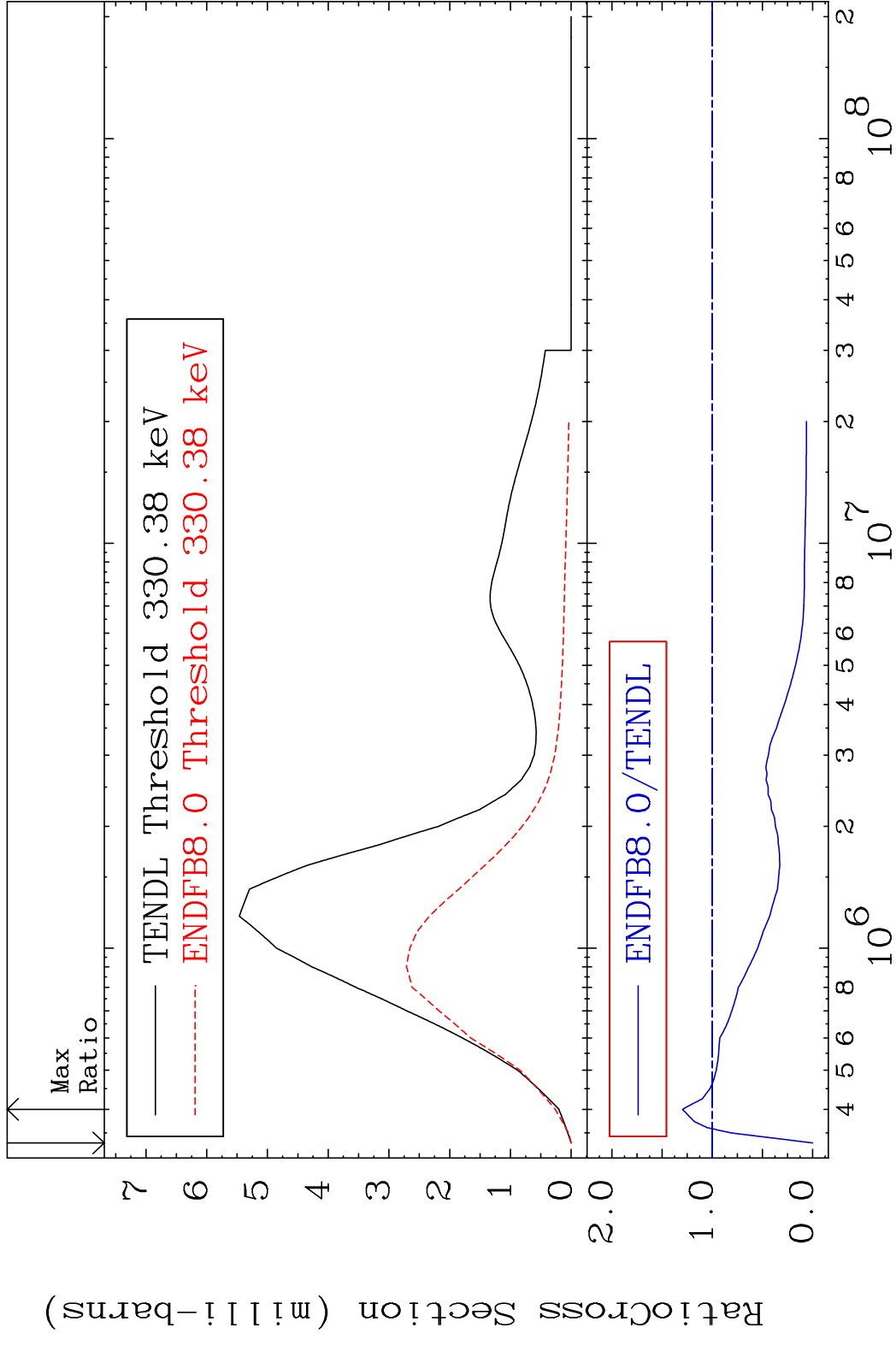
MAT 9540 MT= 61 (n,n') Level 95-Am-240
 Cross Section -100.0 To -44.36%



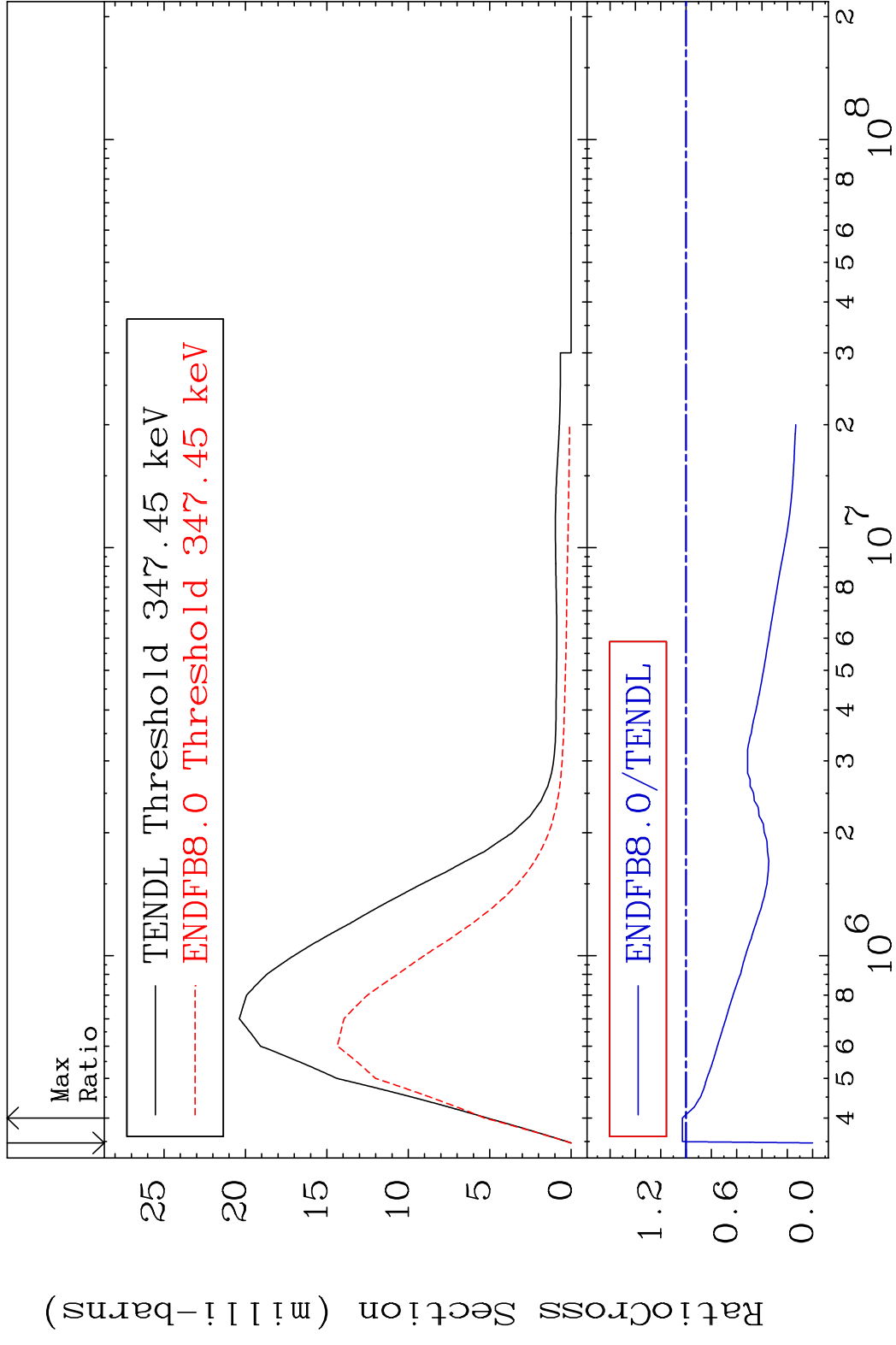
MAT 9540 MT= 62 (n, n') Level 95-Am-240
 Cross Section -100.0 To 9999. %



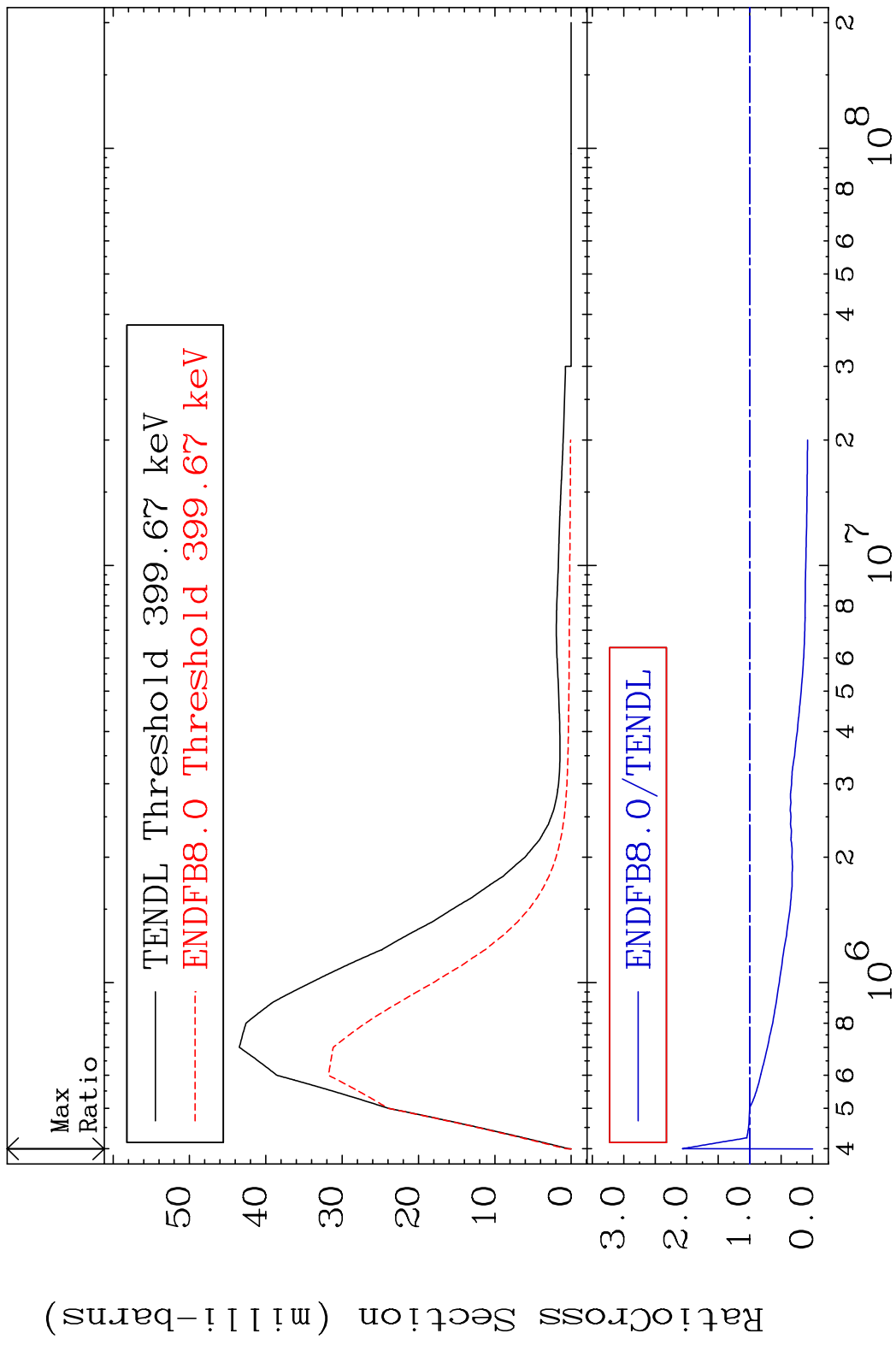
MAT 9540 MT= 63 (n, n') Level 95-Am-240
 Cross Section -100.0 To 29.72 %



MAT 9540 MT= 64 (n, n') Level 95-Am-240
 Cross Section -100.0 To 2.865 %



MAT 9540 MT= 65 (n,n') Level 95-Am-240
 Cross Section -100.0 To 106.8 %

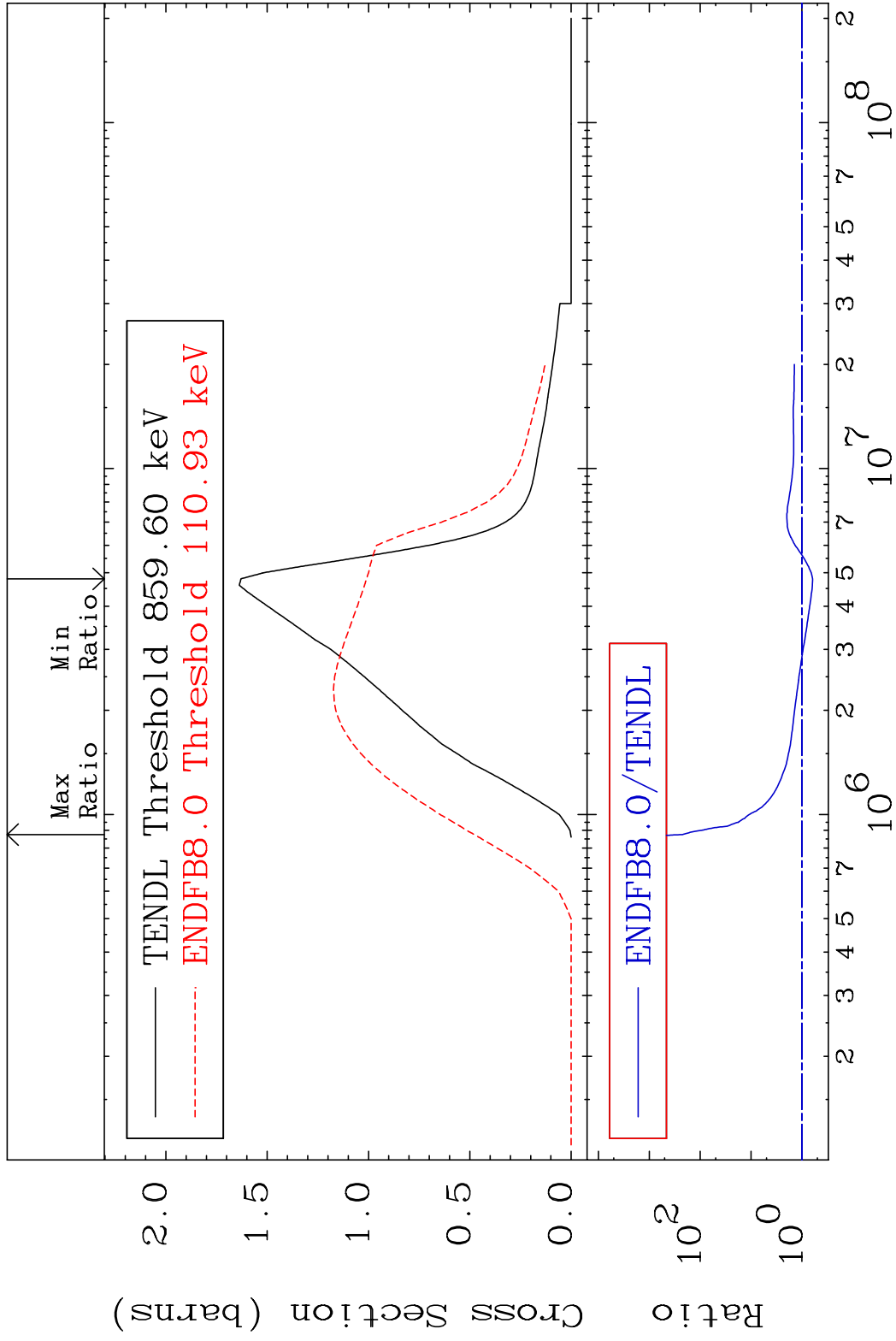


MAT 9540

(n,n') Continuum

95-Am-240

Cross Section -38.02 To 9999. %

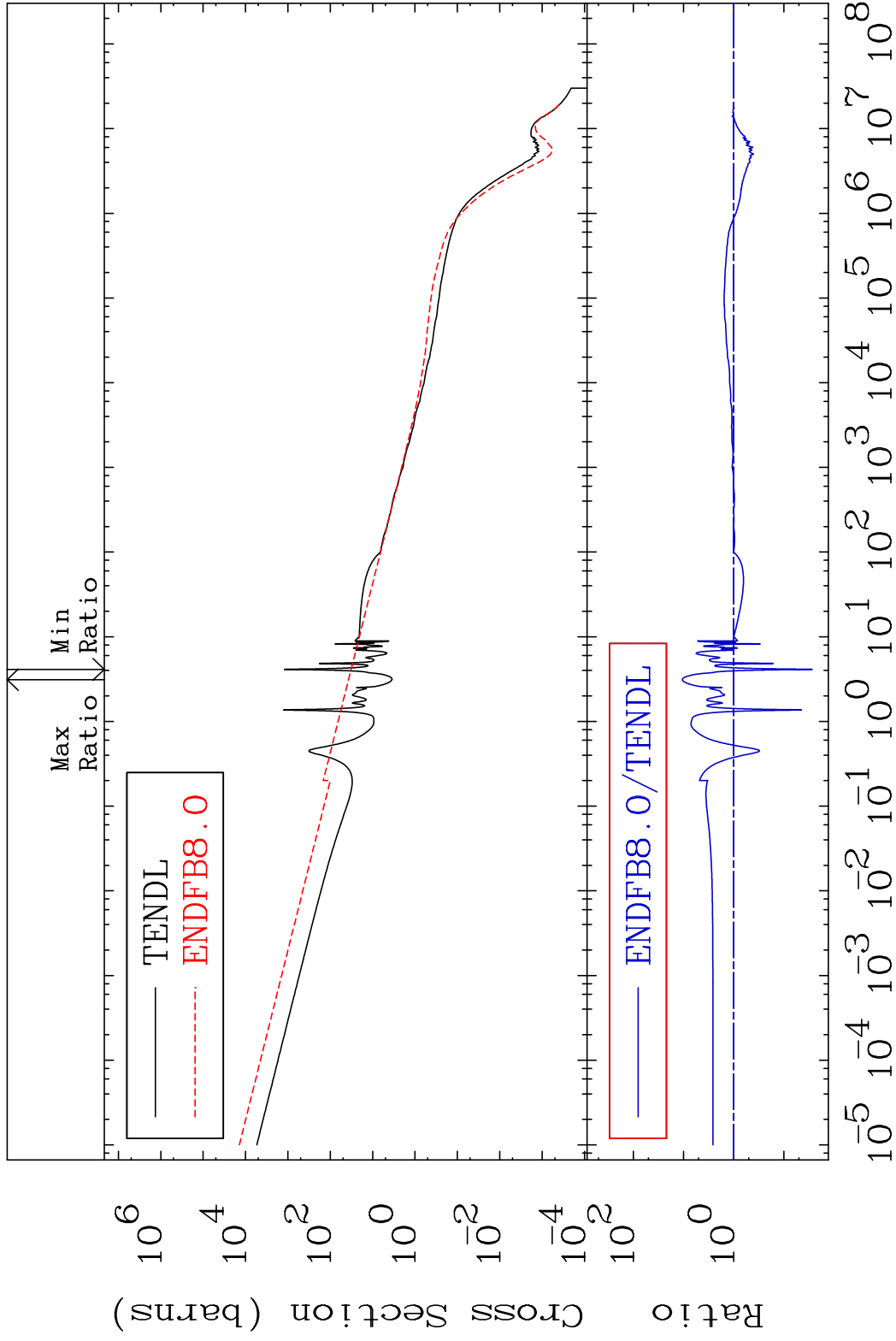


MAT 9540

(n, γ)

95-Am-240

Cross Section -97.33 To 956.9 %

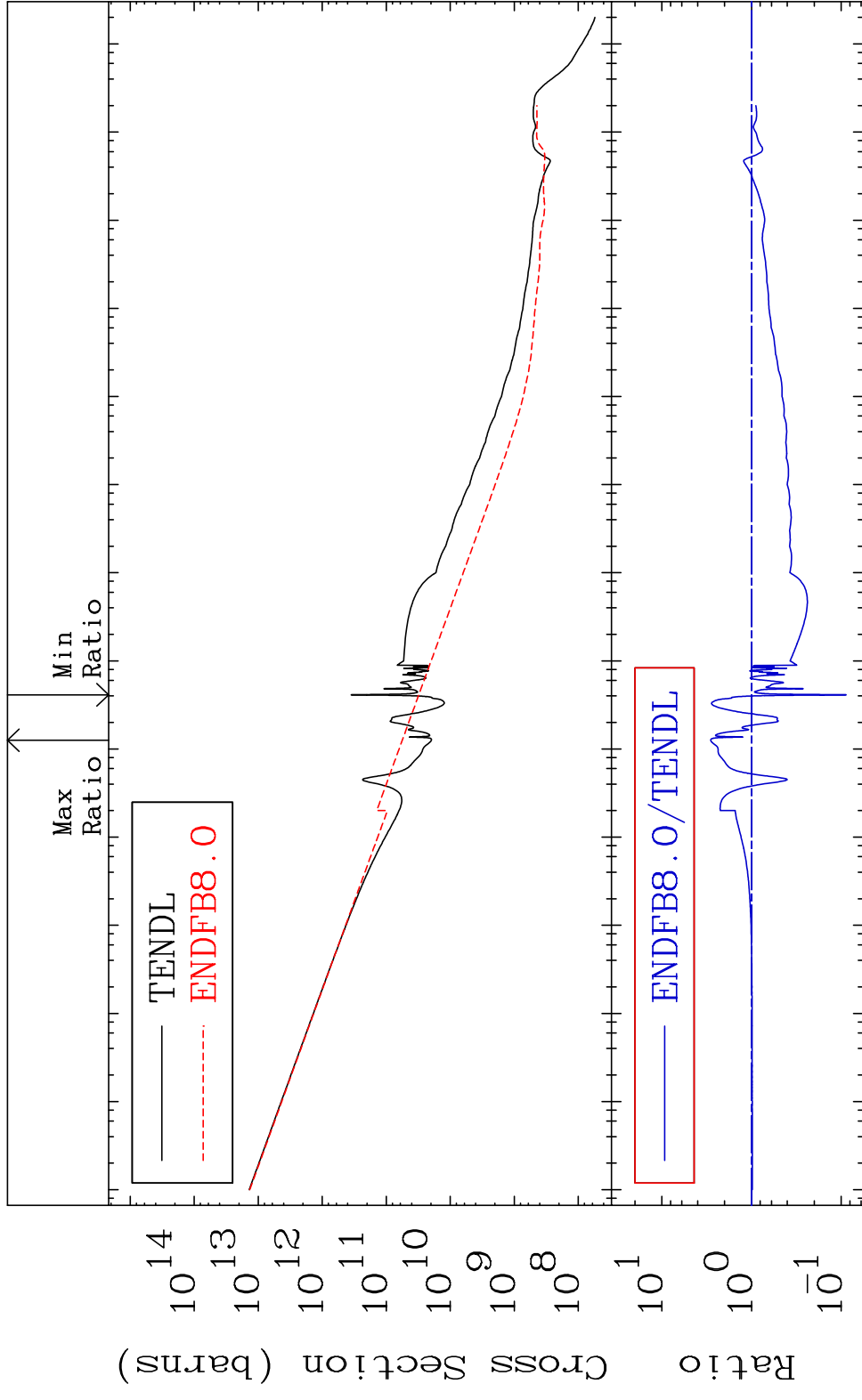


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Incident Energy (eV)

95-Am-240

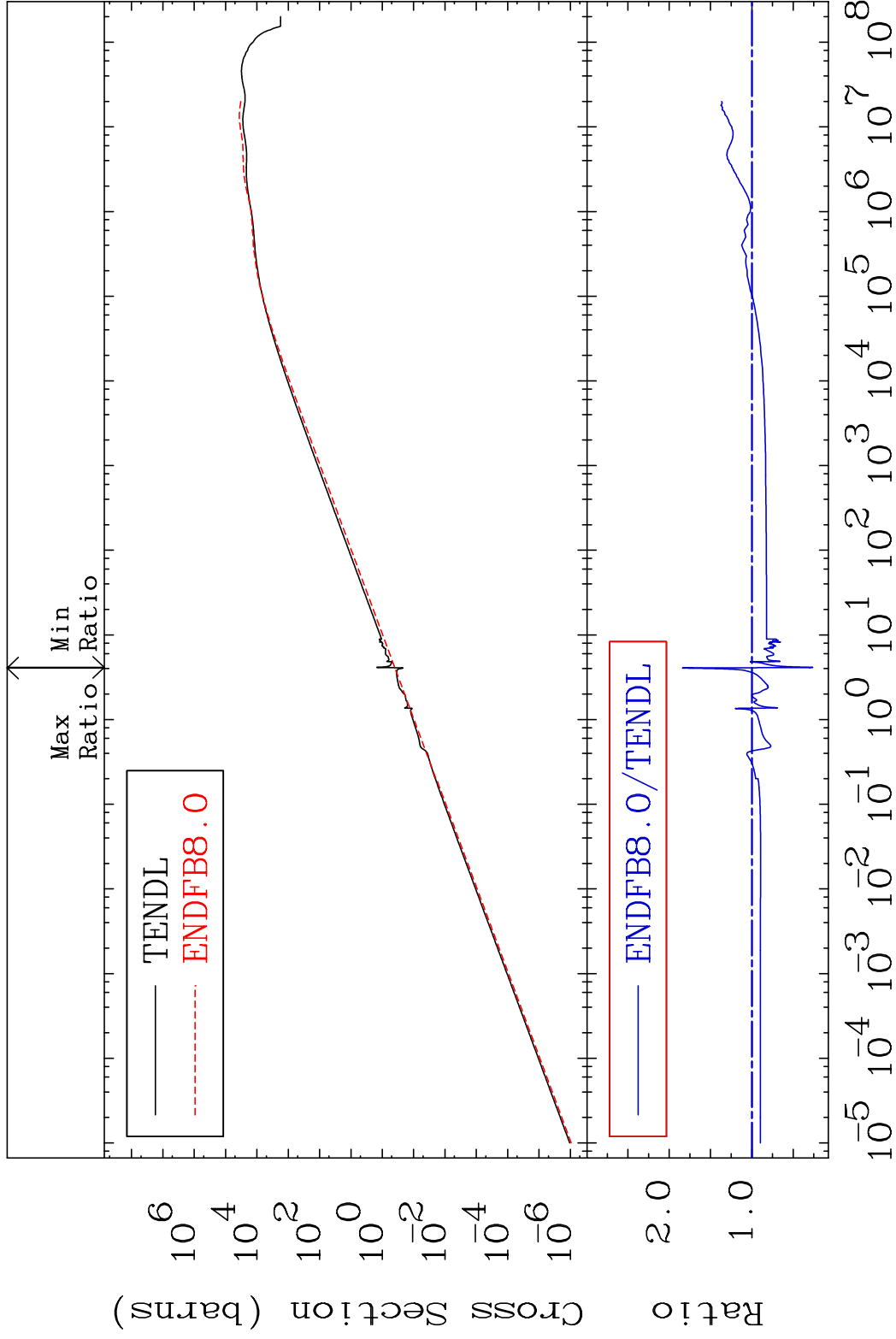
MAT 9540 Kerma total (eV-barns) 95-Am-240
 Cross Section -91.22 To 185.5 %



MAT 9540

Kerma elastic
Cross Section

95-Am-240
-73.45 To 84.13 %

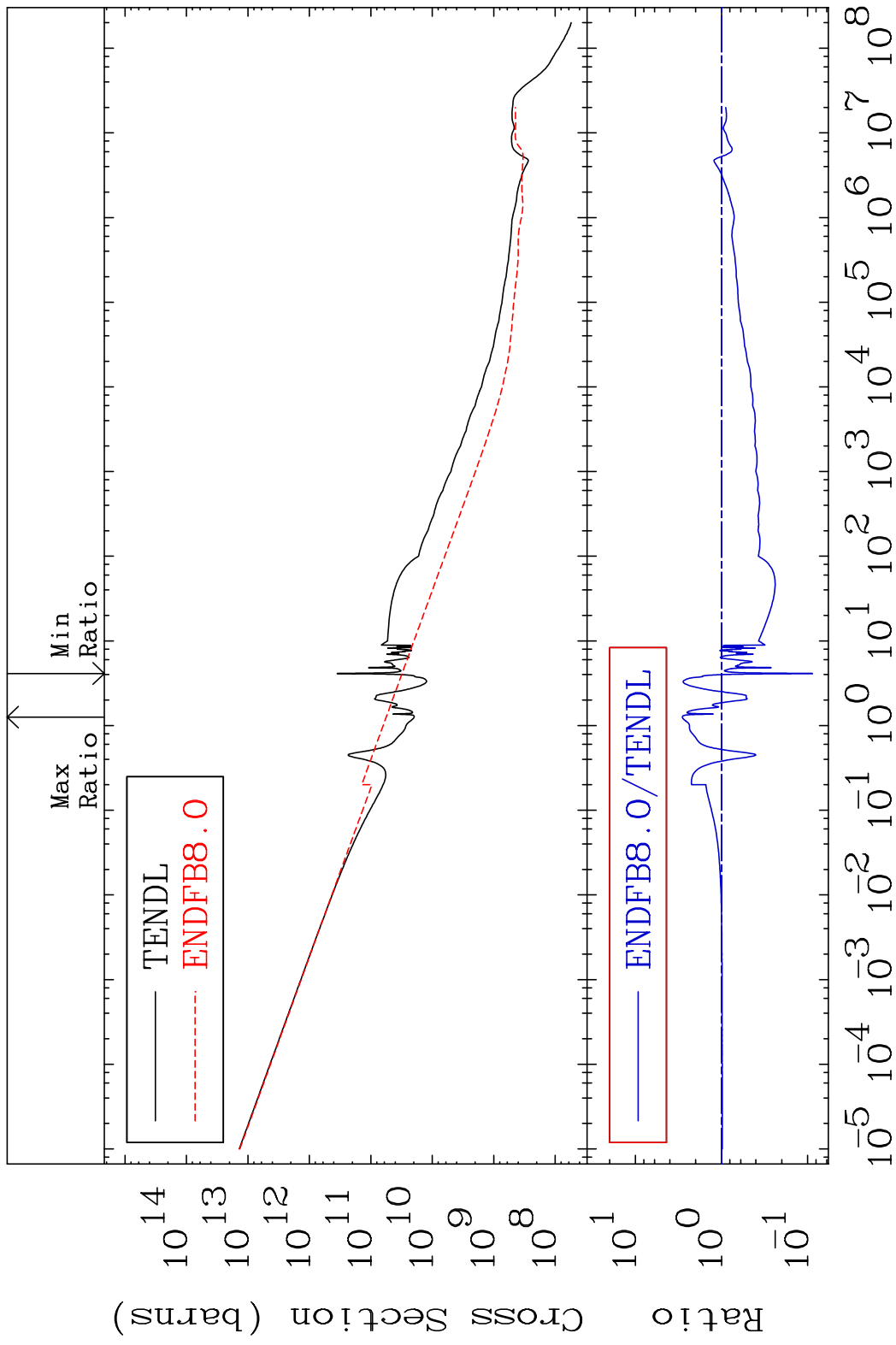


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Incident Energy (eV)

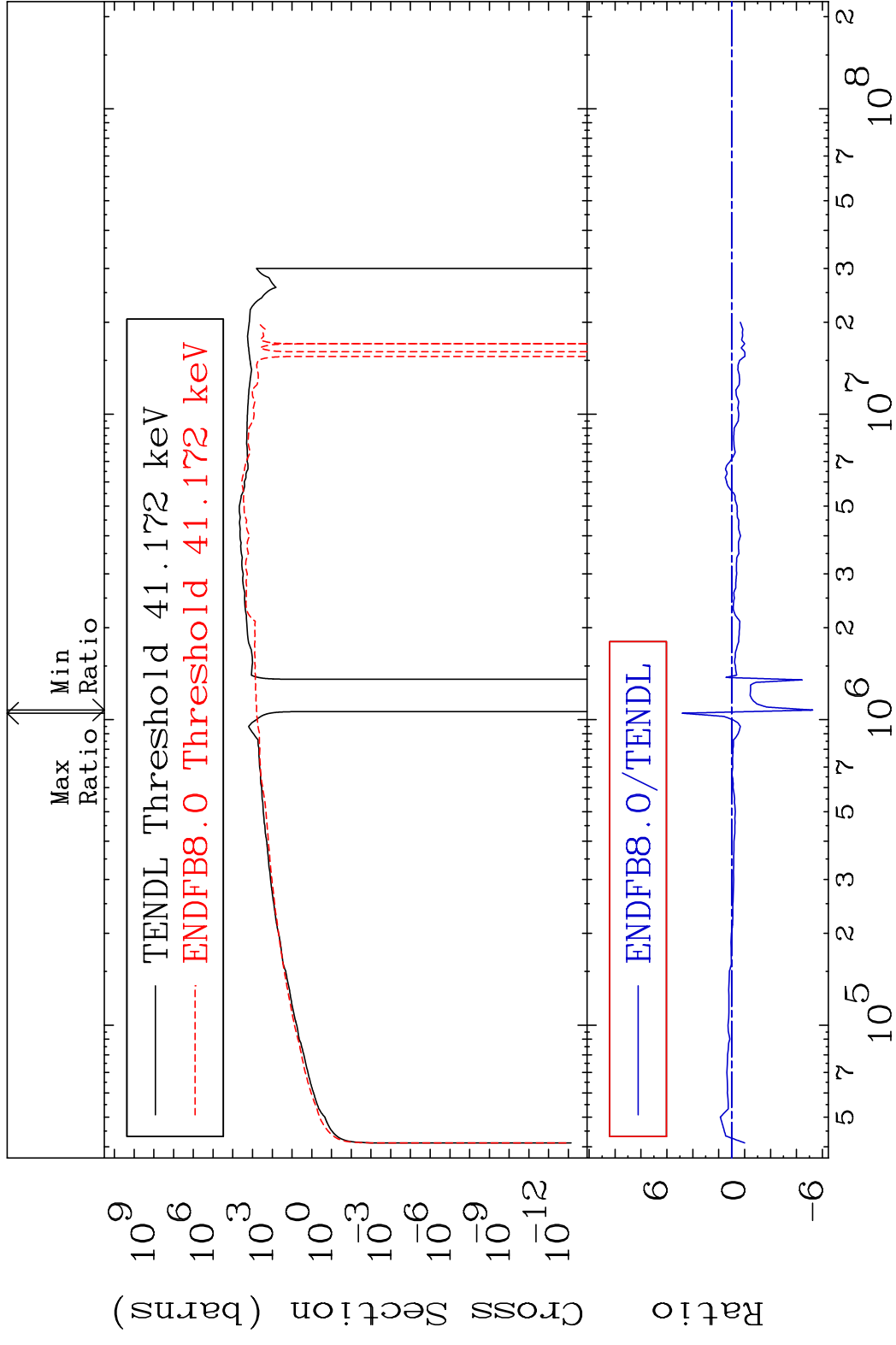
95-Am-240

MAT 9540 Kerma non-elastic (all but mt2) 95-Am-240
 Cross Section -91.22 To 185.5 %

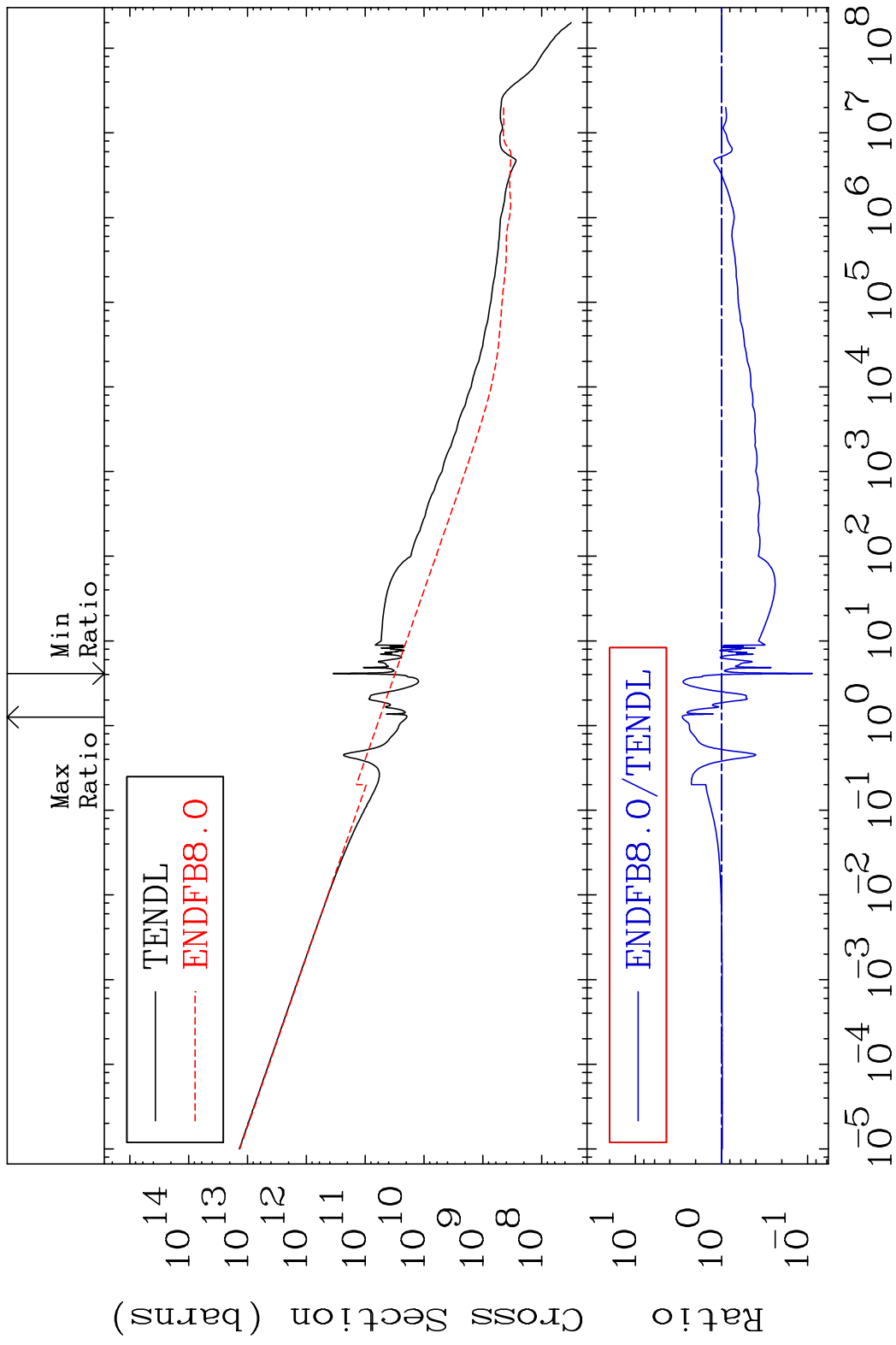


30 Incident Energy (eV) 95-Am-240

MAT 9540 Kerma inelastic (mt51-91) 95-Am-240
 Cross Section -624.1 To 380.4 %

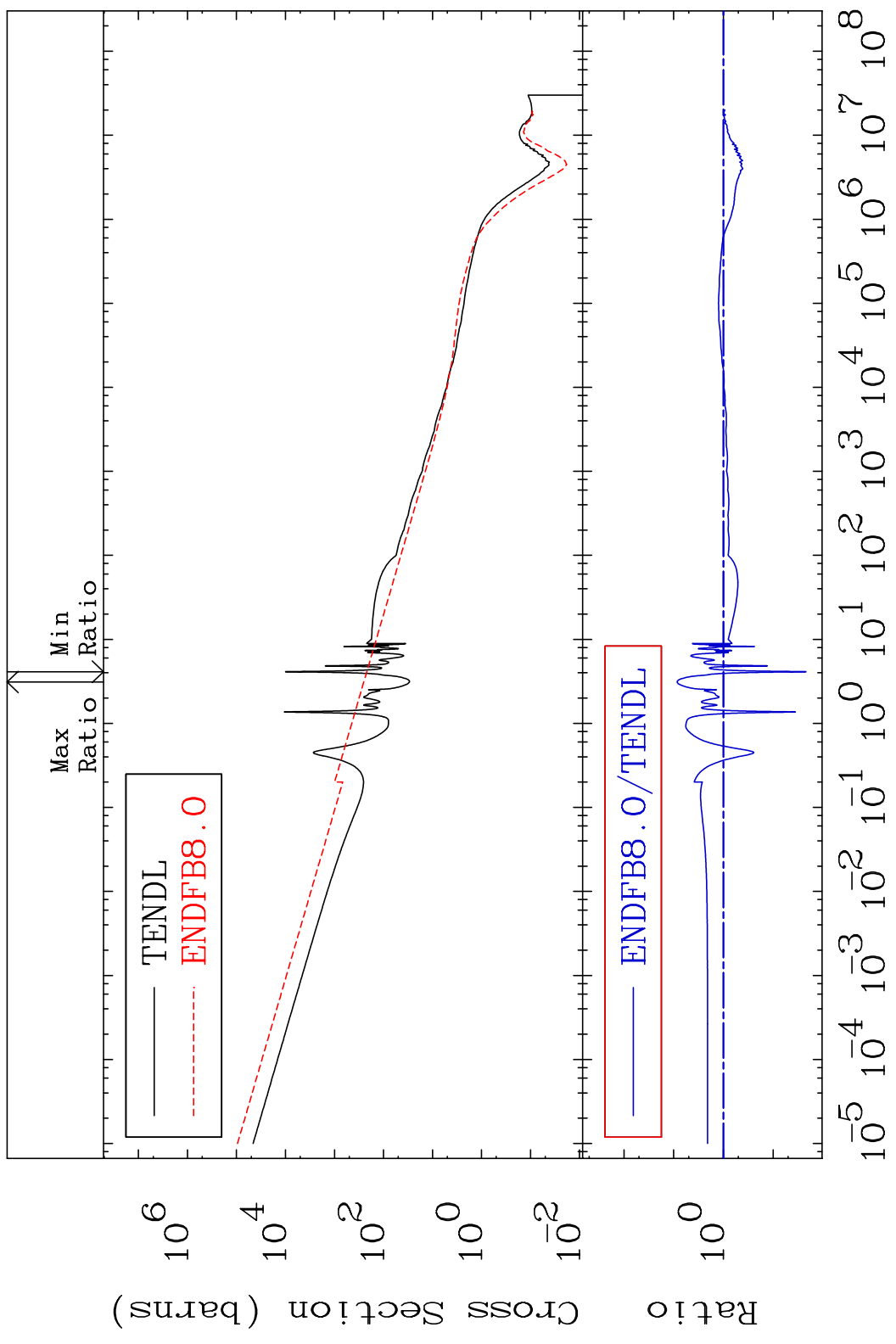


MAT 9540 Kerma fission (mt18 or mt19-20-21-38) 95-Am-240
 Cross Section -91.22 To 185.5 %



MAT 9540

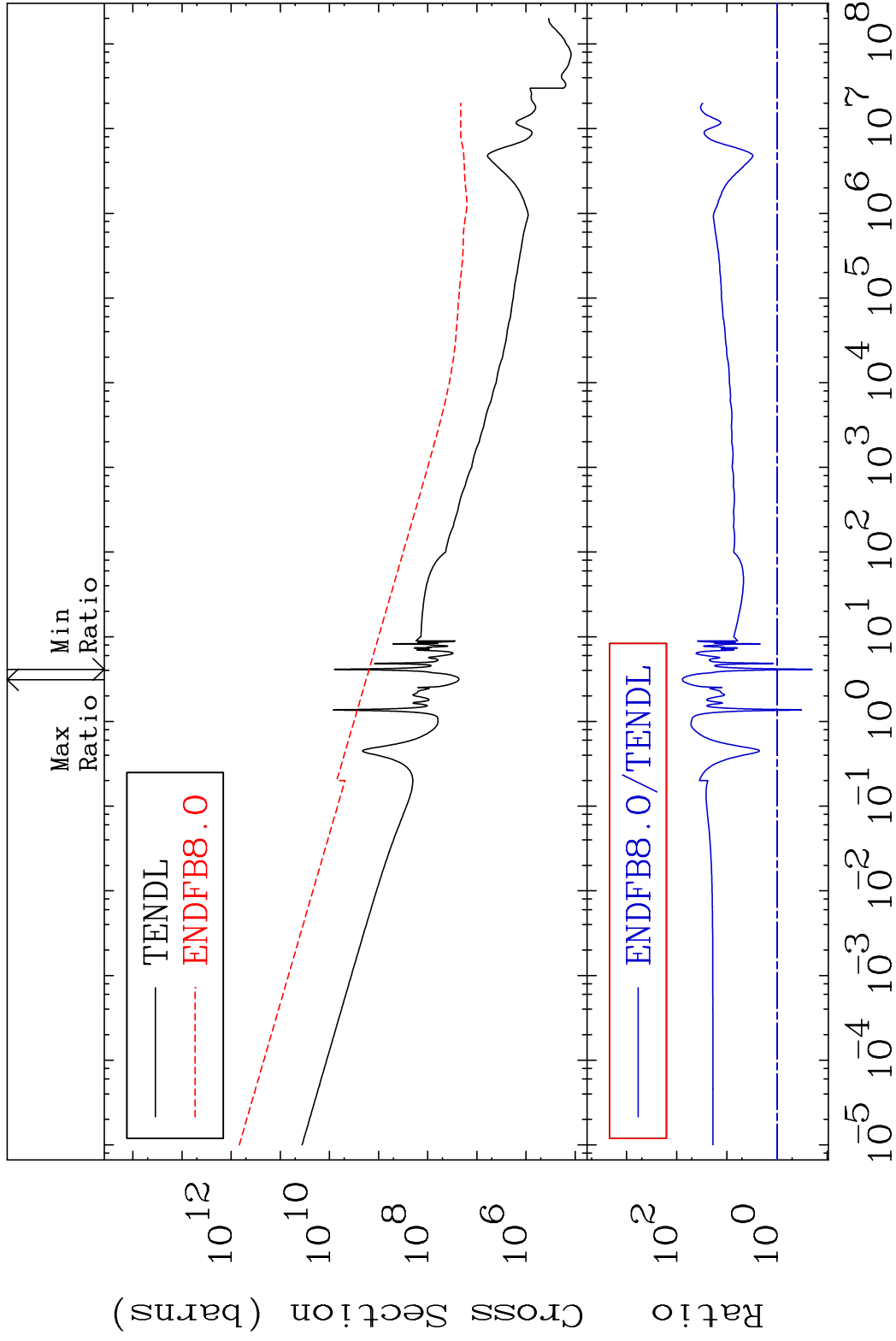
Kerma capture (mt102) 95-Am-240
Cross Section -97.85 To 750.8 %



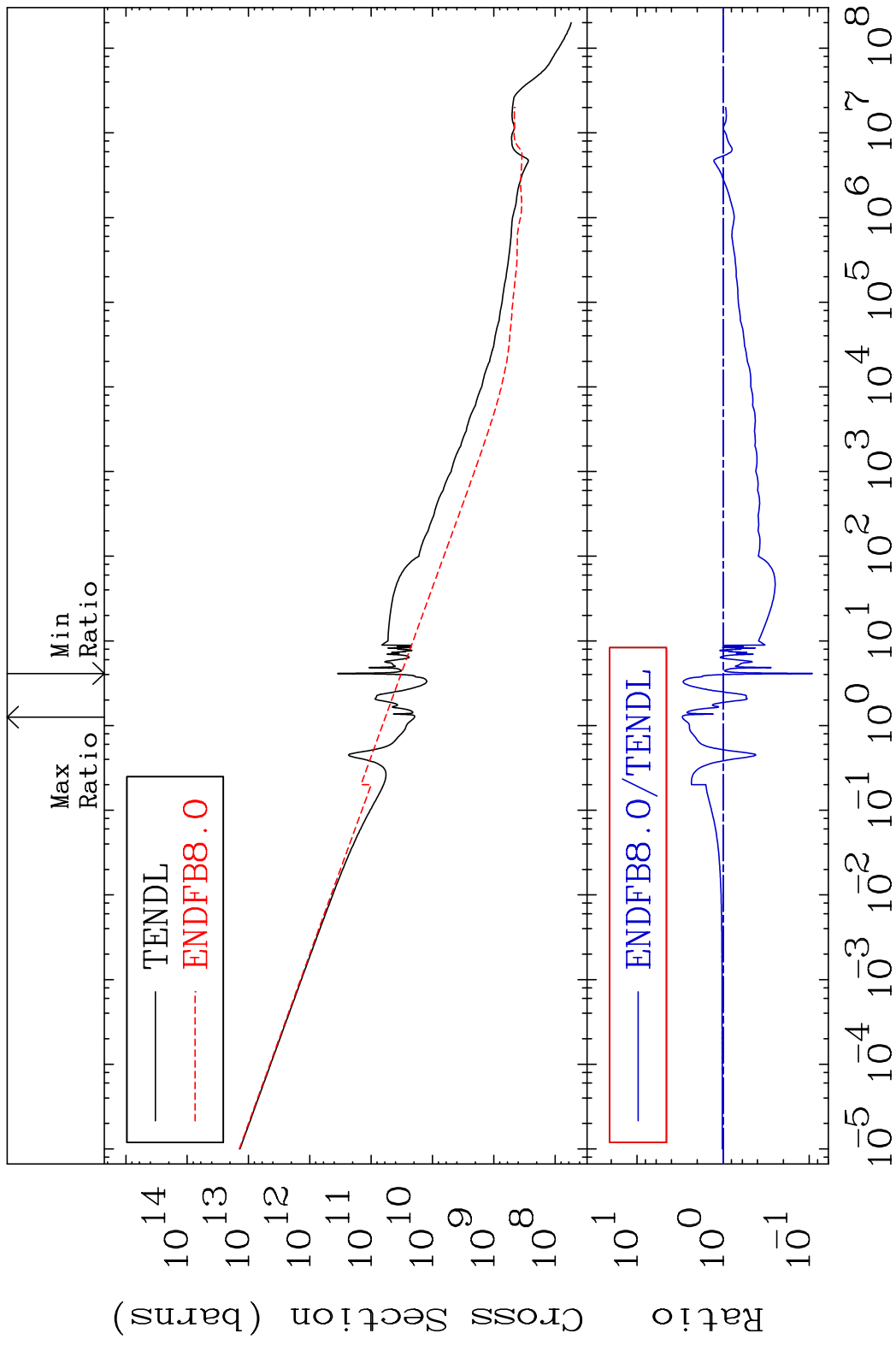
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Incident Energy (eV) 95-Am-240

MAT 9540 Total photon (eV-barns) 95-Am-240
Cross Section -80.49 To 7624. %

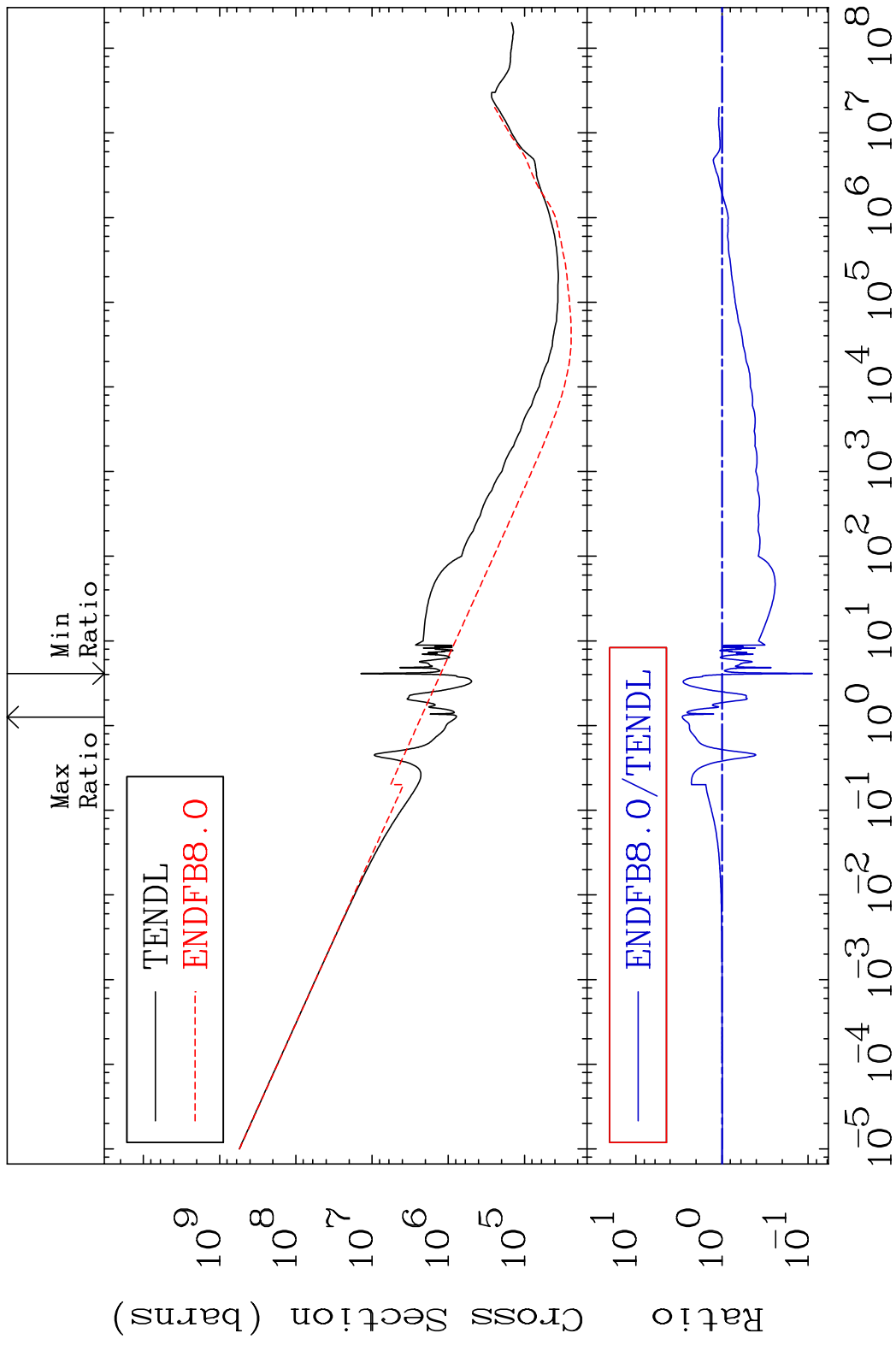


MAT 9540 Total kinematic kerma (high limit) 95-Am-240
 Cross Section -90.84 To 197.9 %

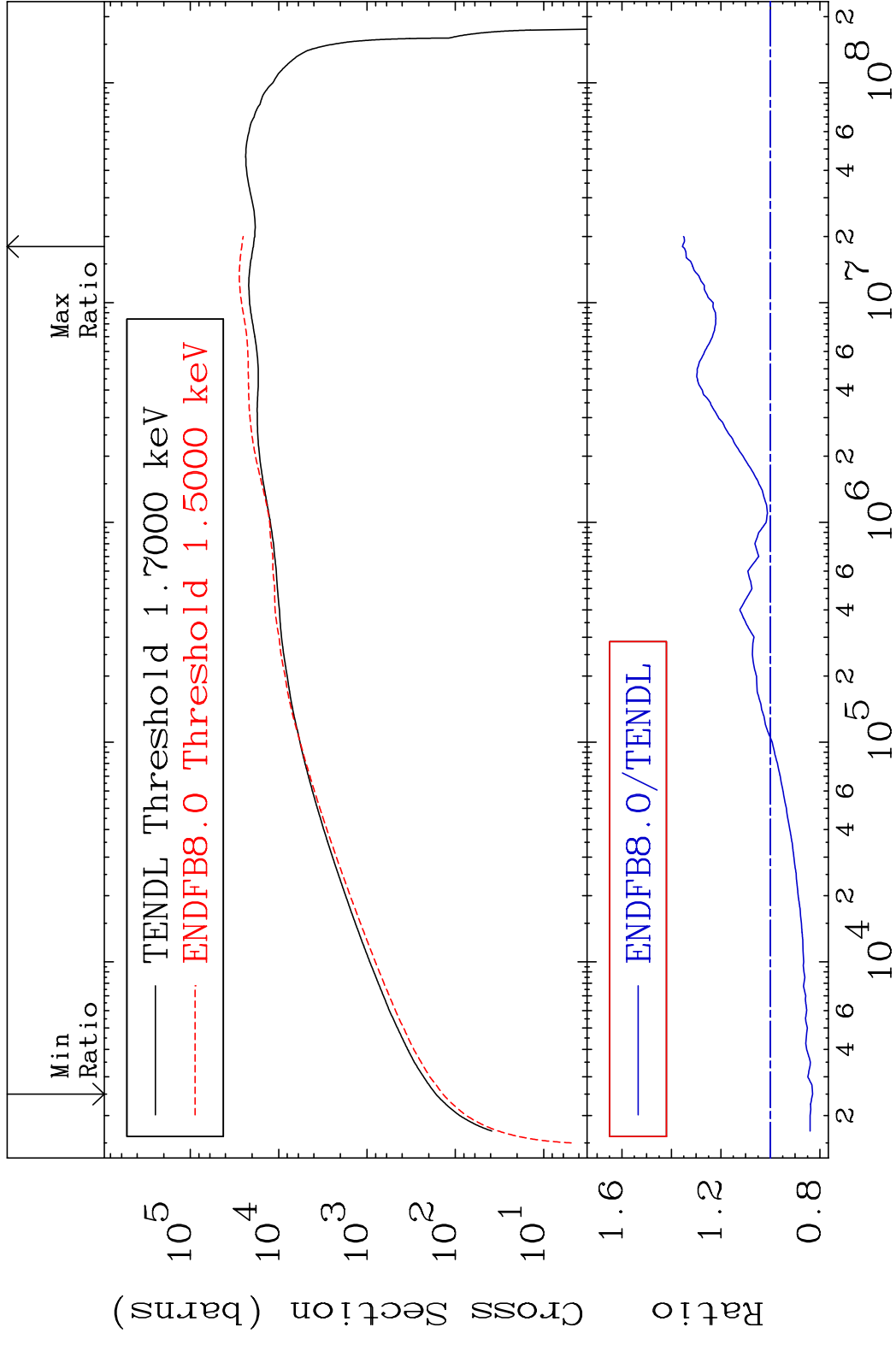


35 Incident Energy (eV) 95-Am-240

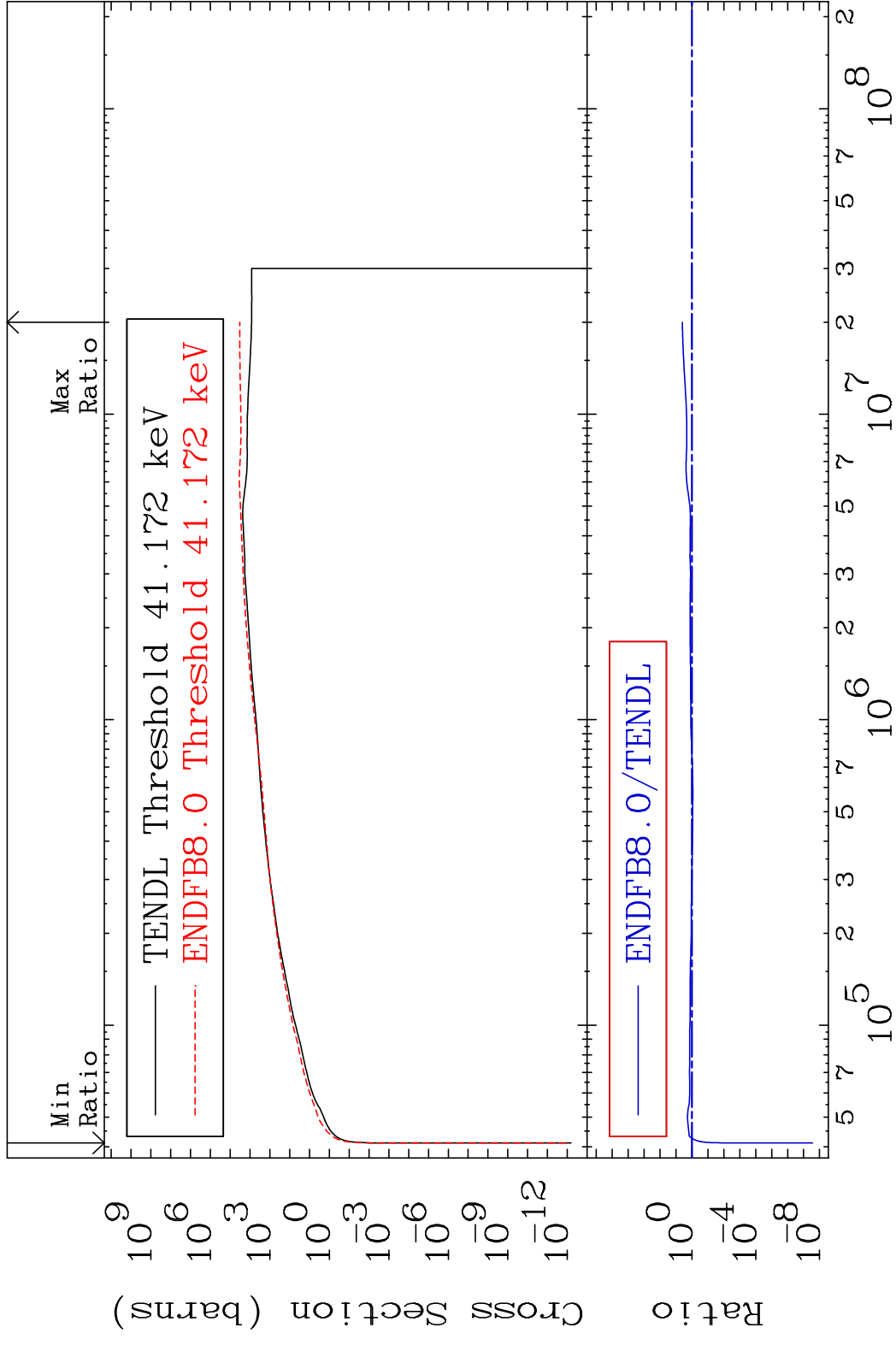
MAT 9540 Dpa total (eV-barns) 95-Am-240
 Cross Section -91.12 To 188.8 %



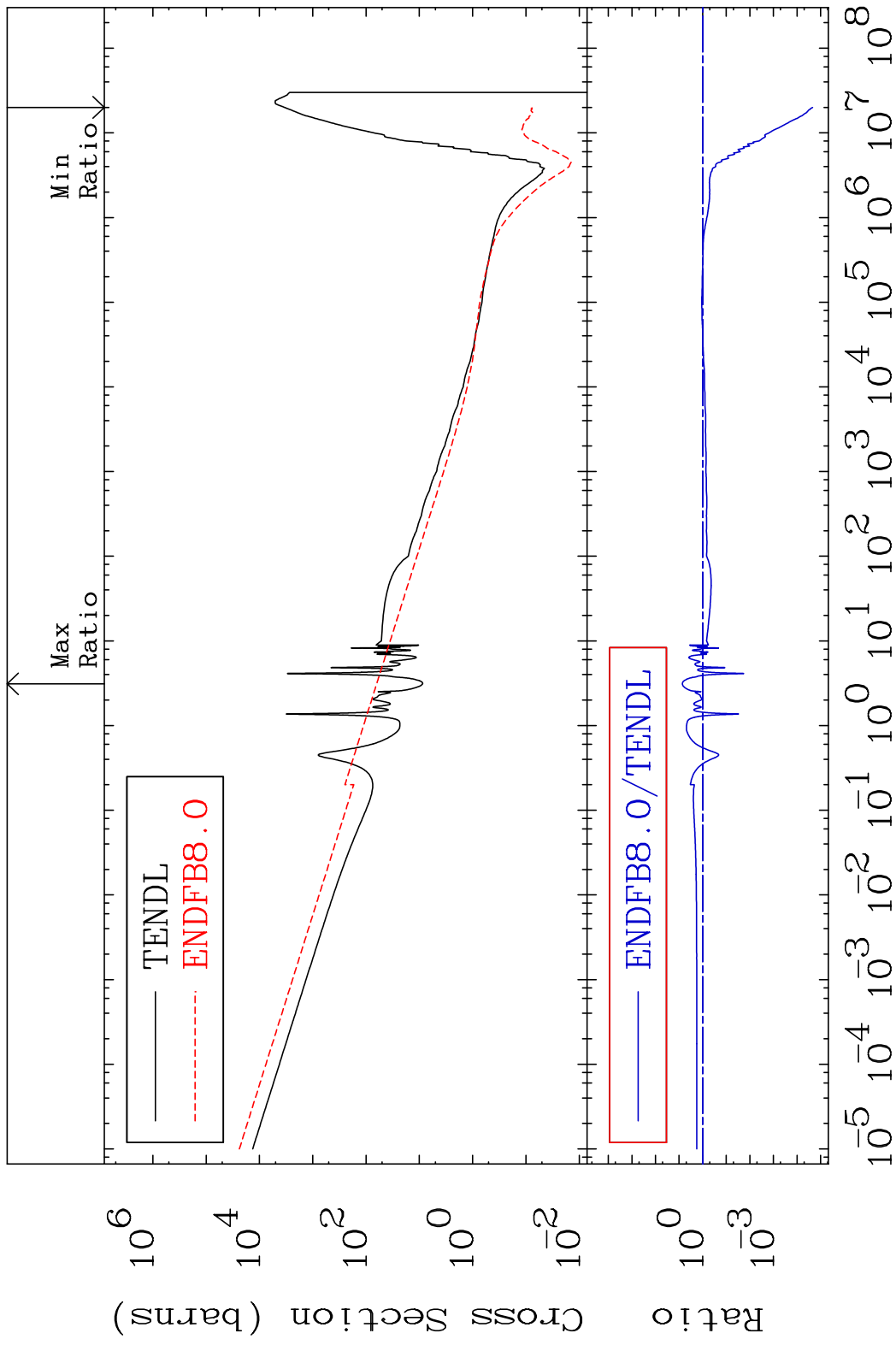
MAT 9540 Dpa elastic (mt2) 95-Am-240
 Cross Section -17.03 To 35.57 %



MAT 9540 Dpa inelastic (mt51-91) 95-Am-240
 Cross Section -100.0 To 294.7 %



MAT 9540 Dpa disappearance (mt102 -120) 95-Am-240
 Cross Section -100.0 To 626.5 %



39 Incident Energy (eV) 95-Am-240