

Program Complot
(Version 2021-1)

by

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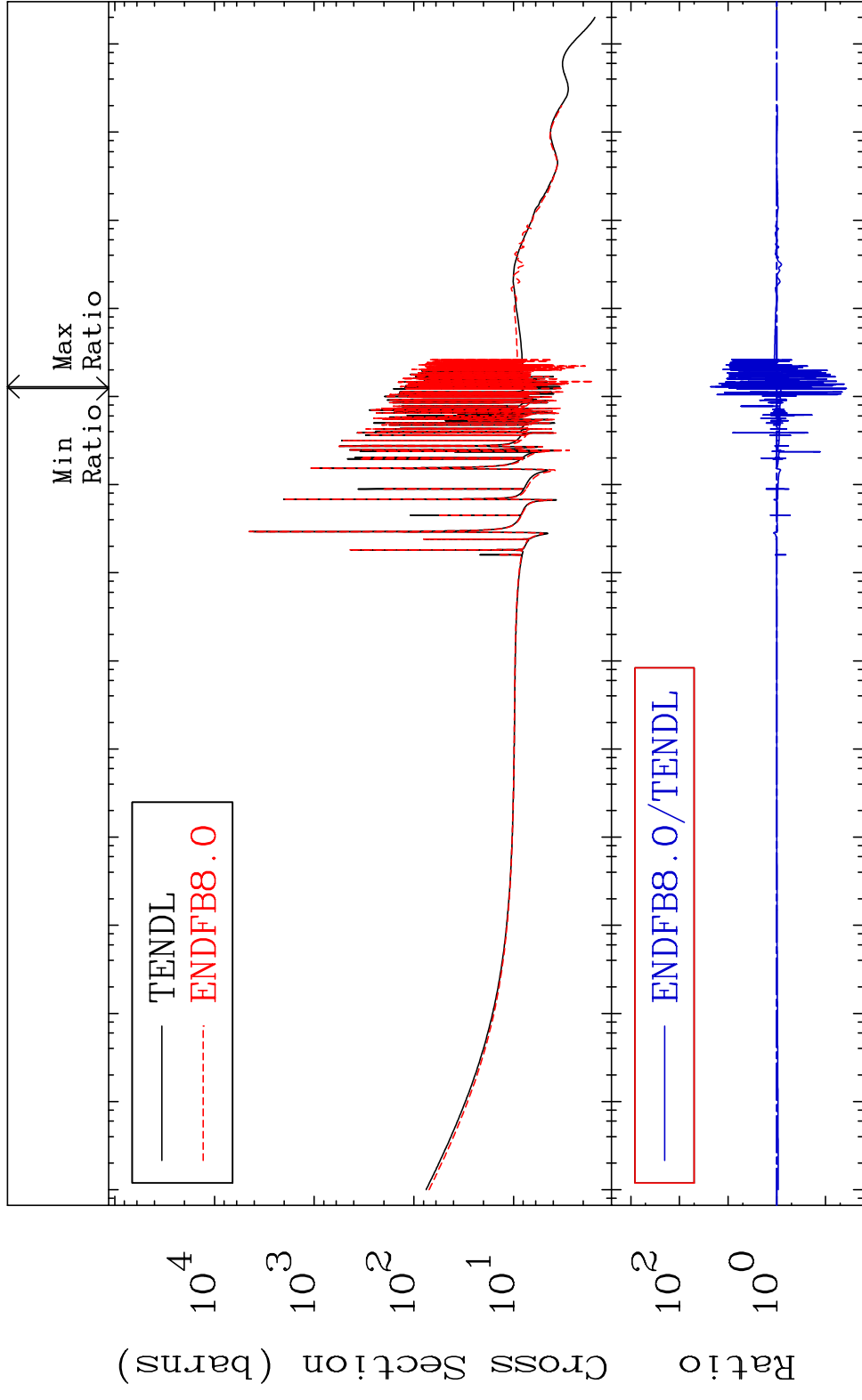
Press Mouse Button to Start

MAT 4028

Total

40-Zr-91

Cross Section -96.27 To 2184. %



1

Incident Energy (eV)

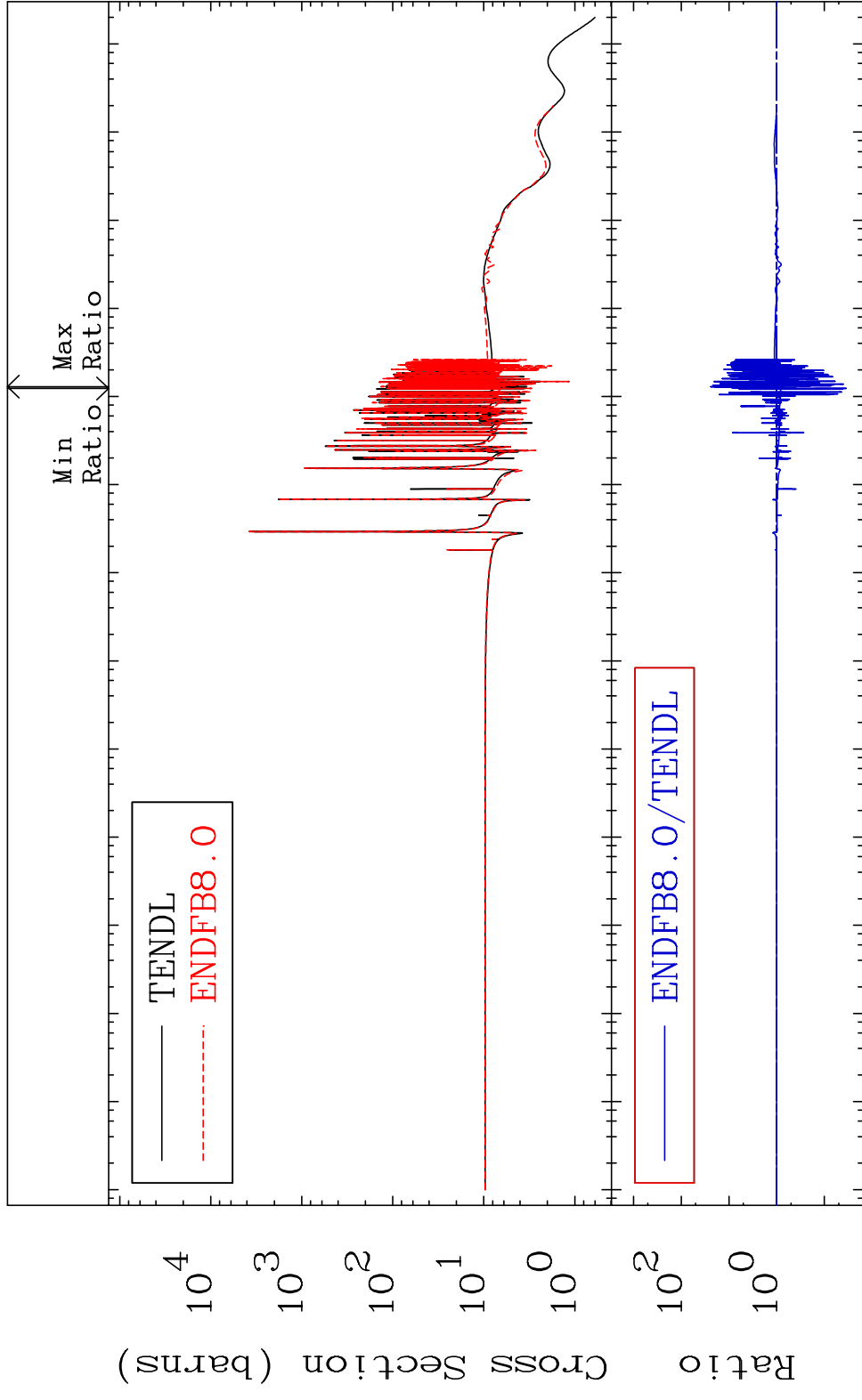
40-Zr-91

MAT 4028

Elastic

40-Zr-91

Cross Section -96.54 To 2309. %



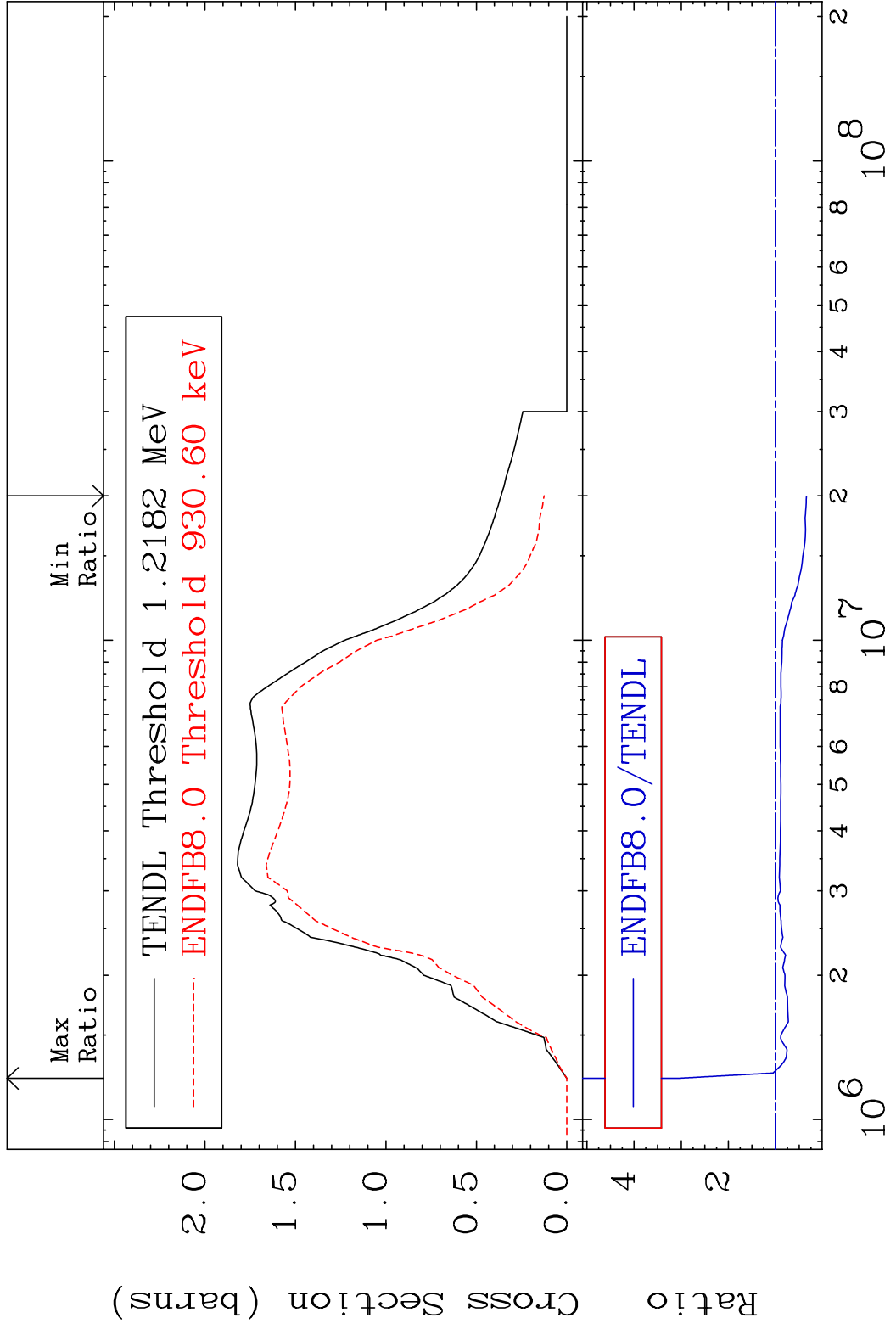
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

2

Incident Energy (eV)

40-Zr-91

MAT 4028 Inelastic Cross Section -65.44 To 208.6 % 40-Zr-91



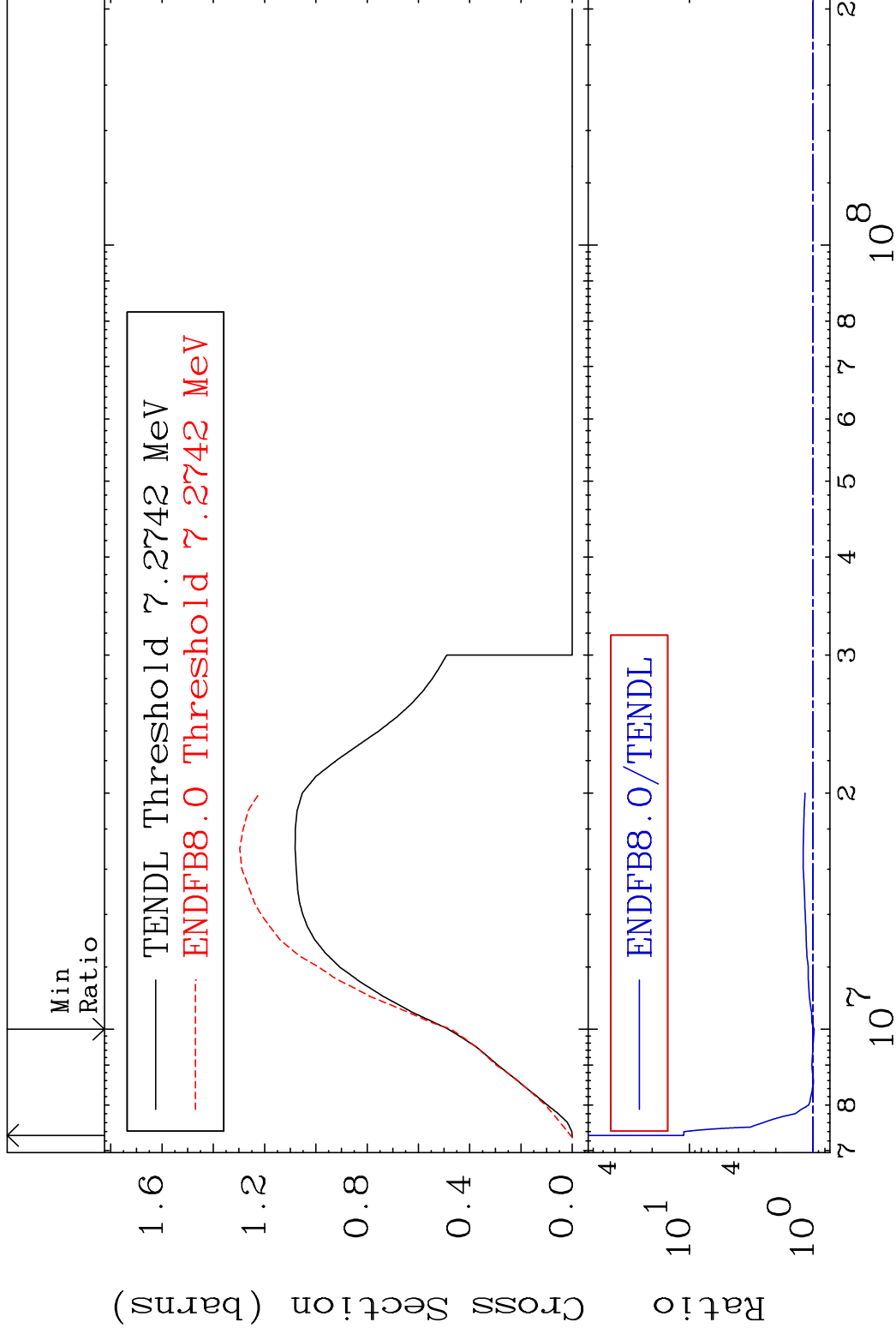
3 40-Zr-91

MAT 4028

(n,2n)

40-Zr-91

Cross Section -2.172 To 1012. %



4

Incident Energy (eV)

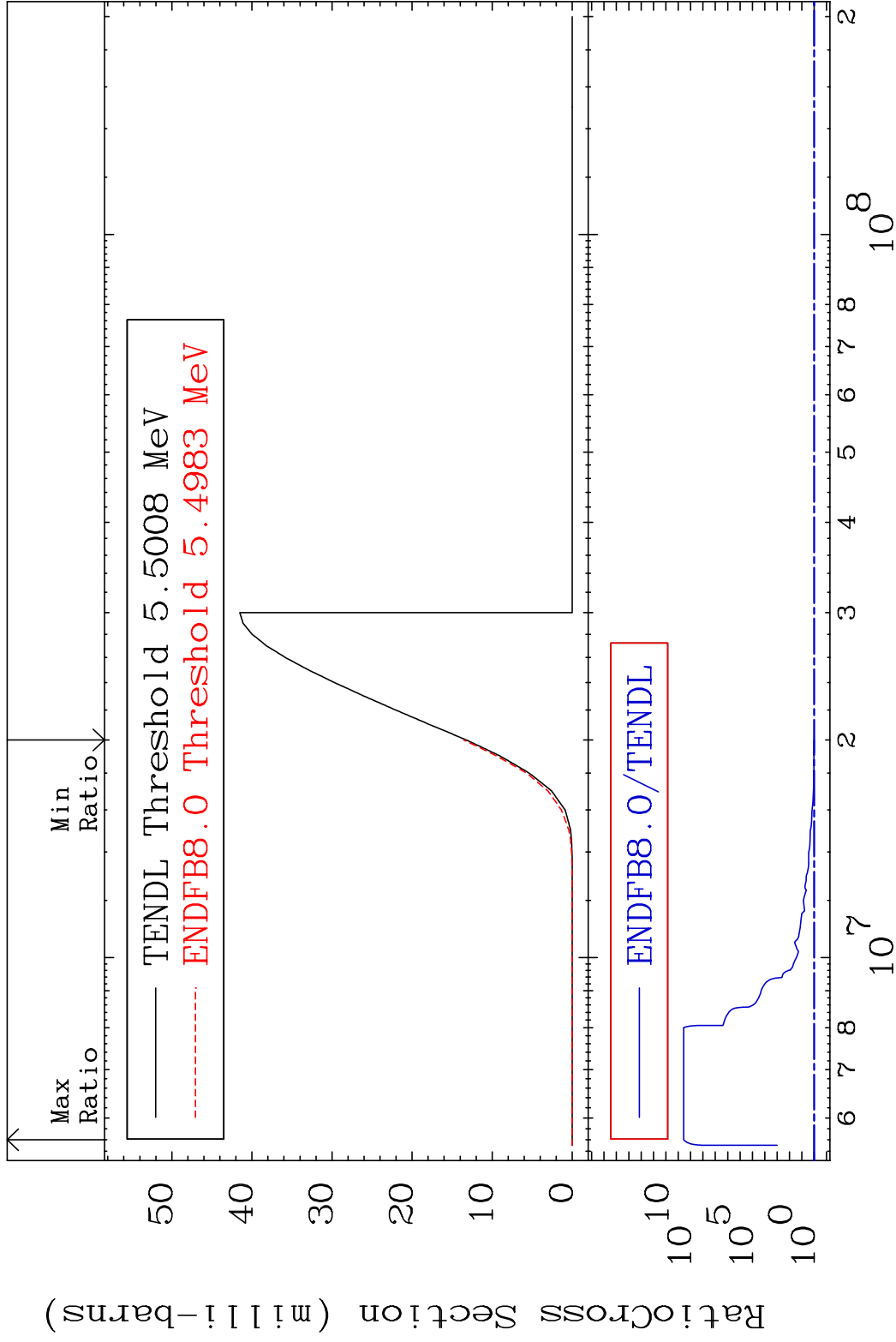
40-Zr-91

MAT 4028

(n, n') α

40-Zr-91

Cross Section 2.458 To 9999. %



5

Incident Energy (eV)

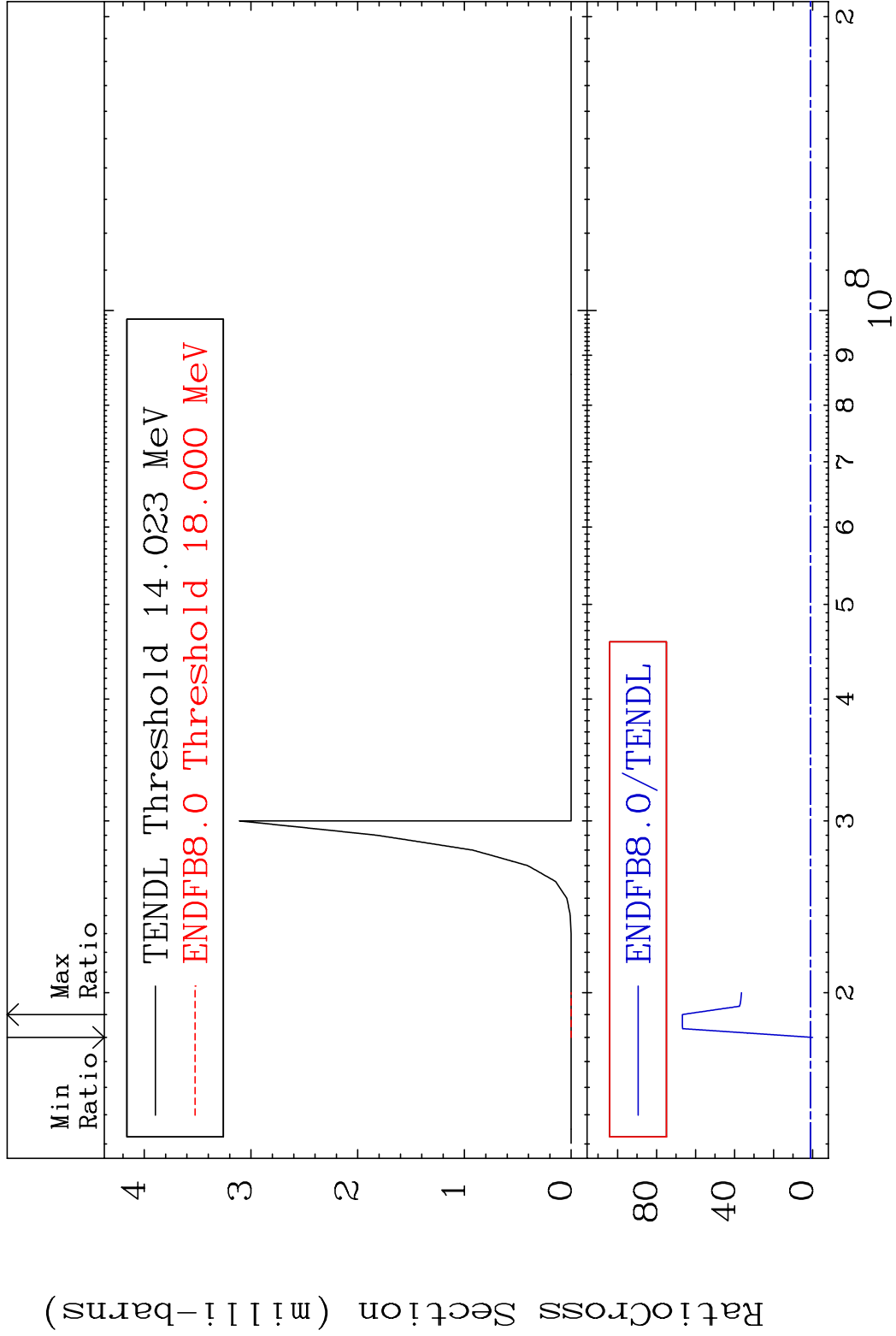
40-Zr-91

MAT 4028

(n,2n) α

40-Zr-91

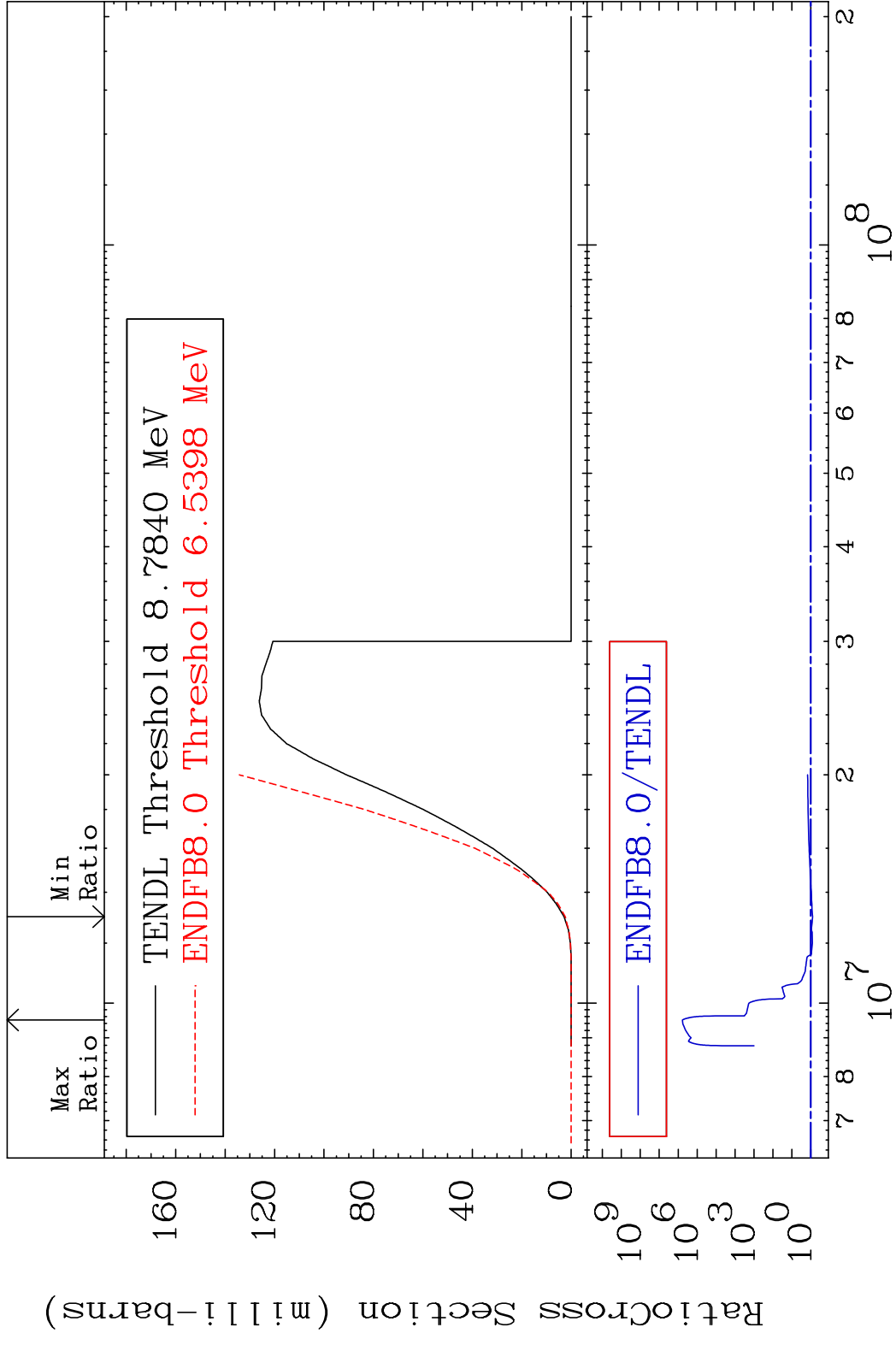
Cross Section -100.0 To 6579. %



MAT 4028

(n, n') p 40-Zr-91

Cross Section -18.41 To 9999. %

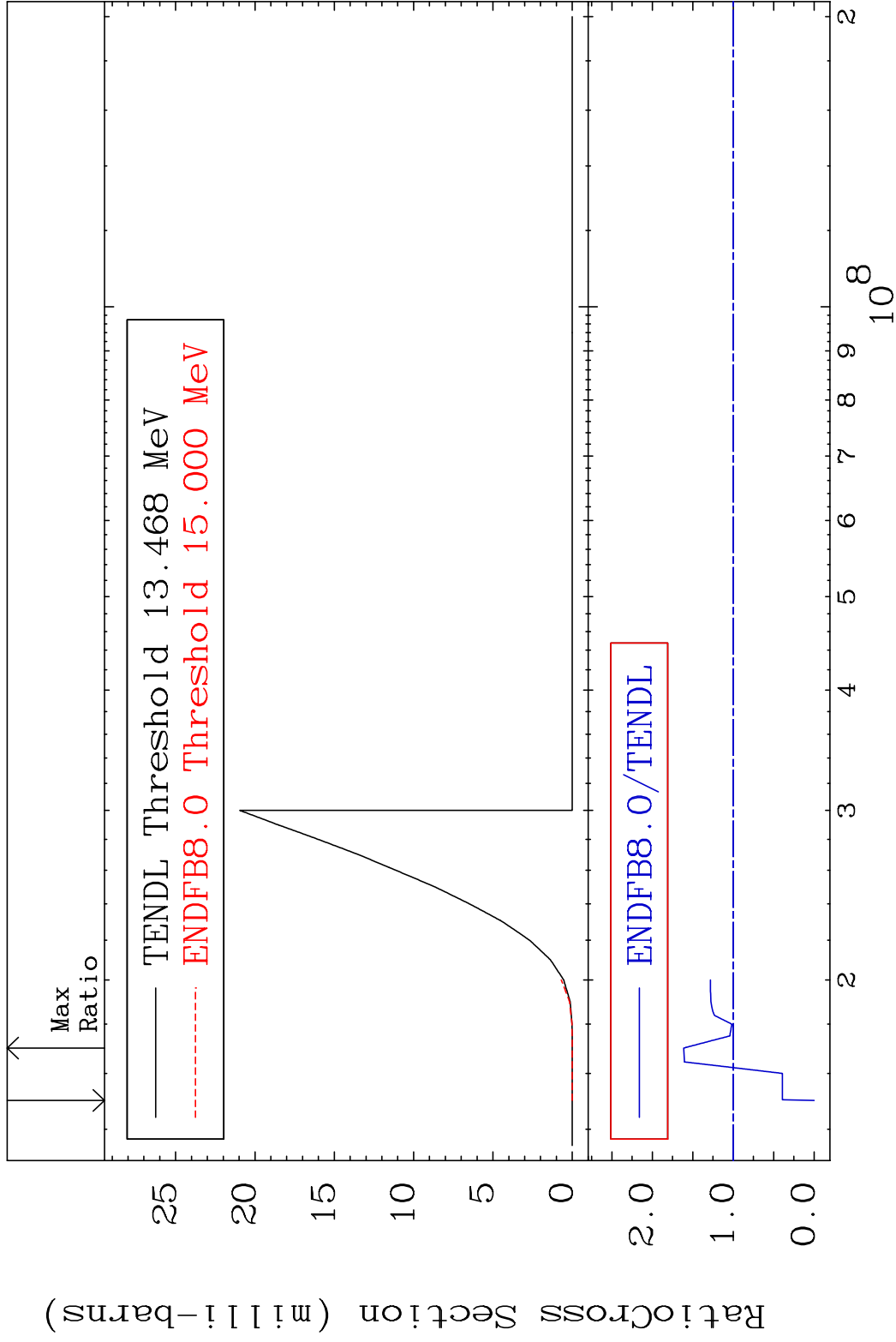


MAT 4028

(n, n') d

40-Zr-91

Cross Section -100.0 To 61.27 %



8

Incident Energy (eV)

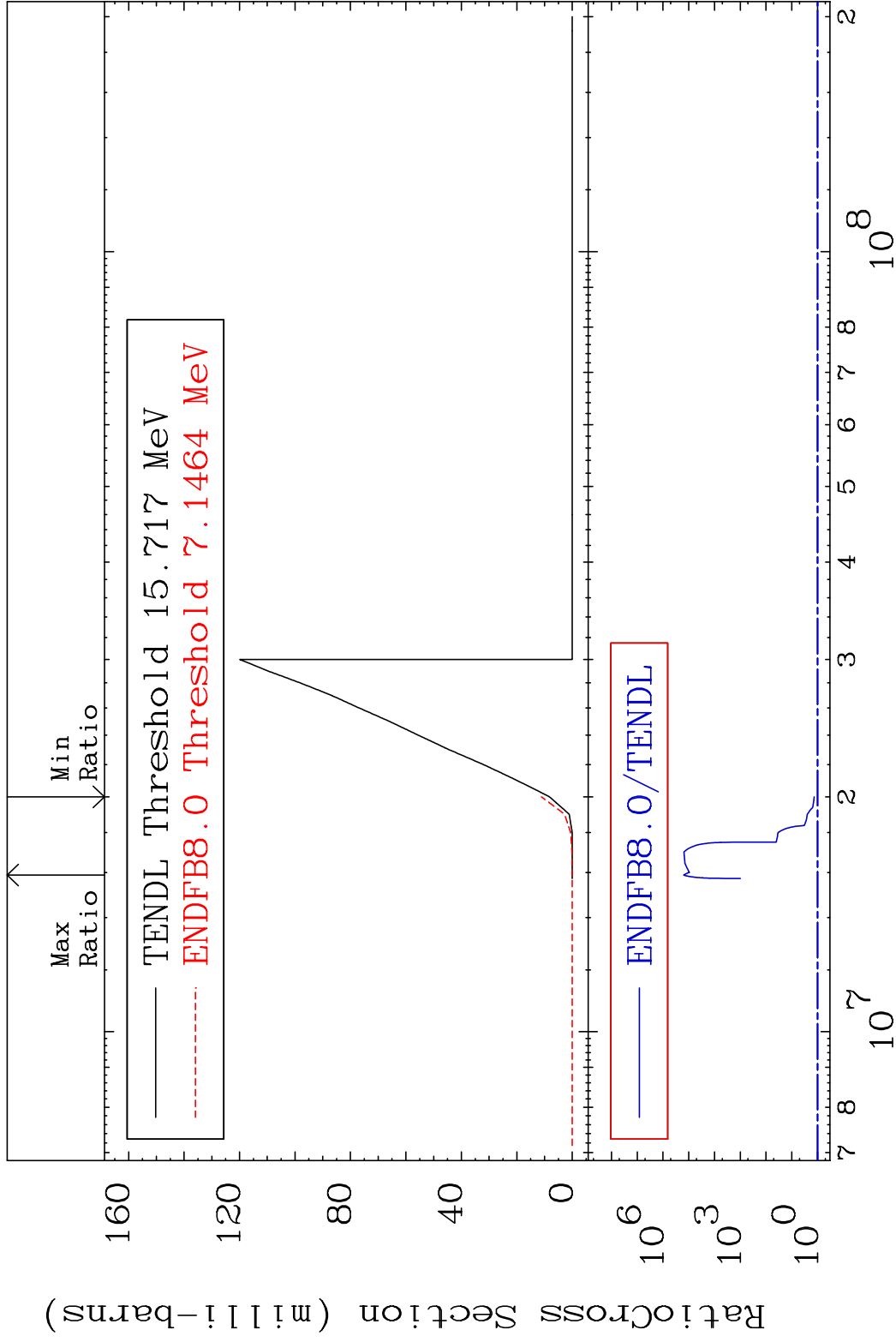
40-Zr-91

MAT 4028

(n,2n) p

40-Zr-91

Cross Section 35.33 To 9999. %

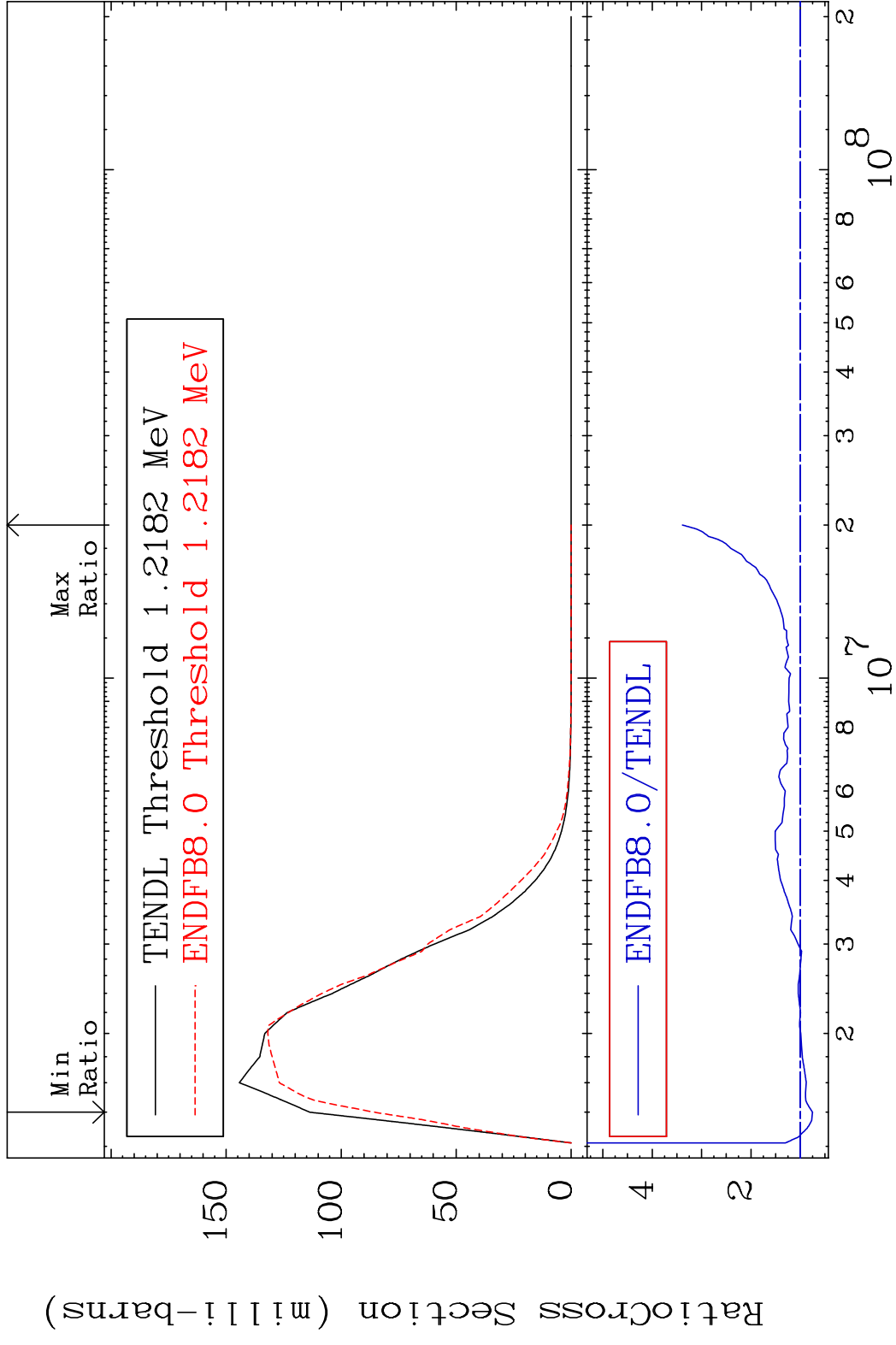


9

Incident Energy (eV)

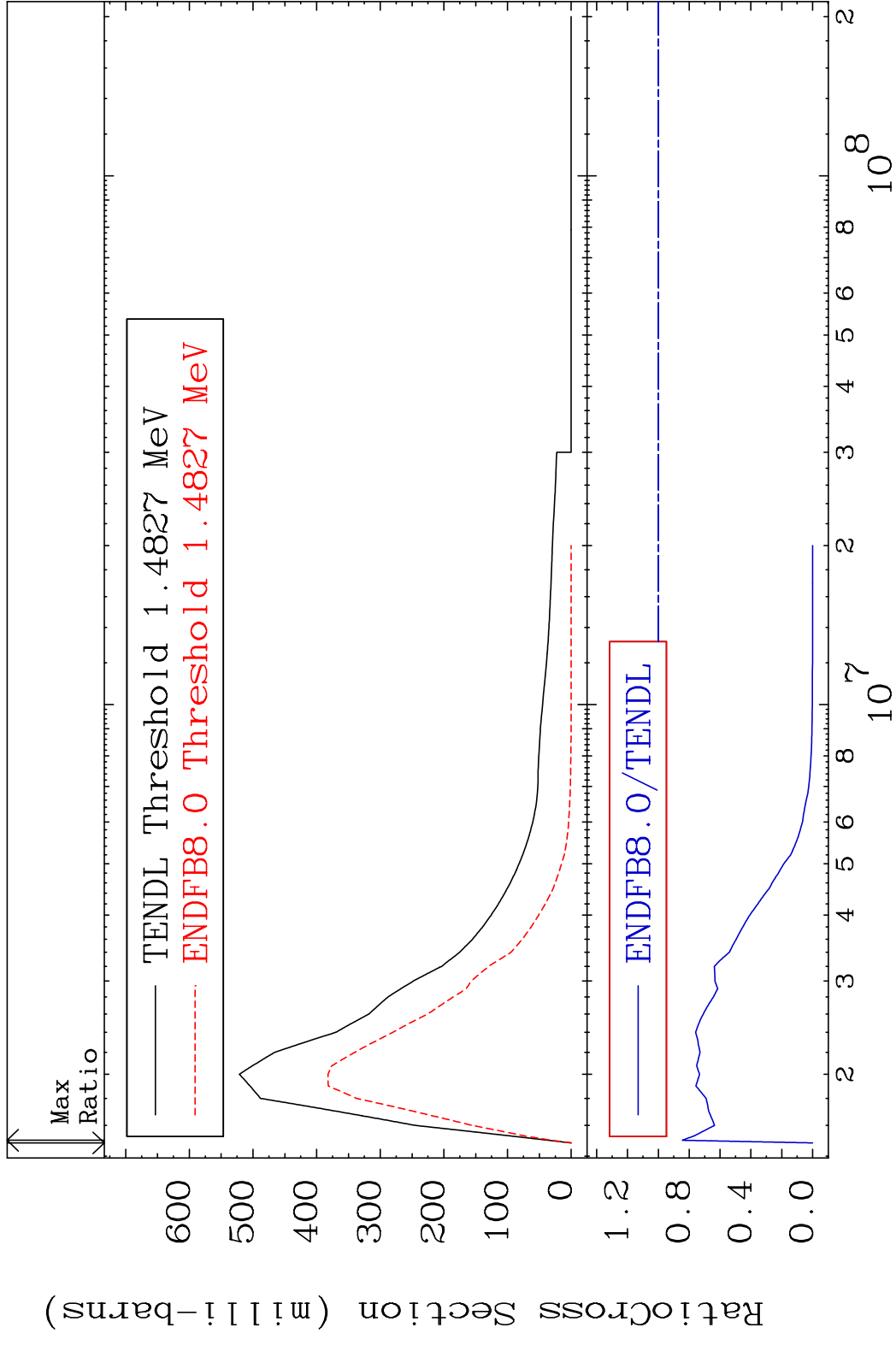
40-Zr-91

MAT 4028 MT= 51 (n, n') Level 40-Zr-91
 Cross Section -24.81 To 238.9 %

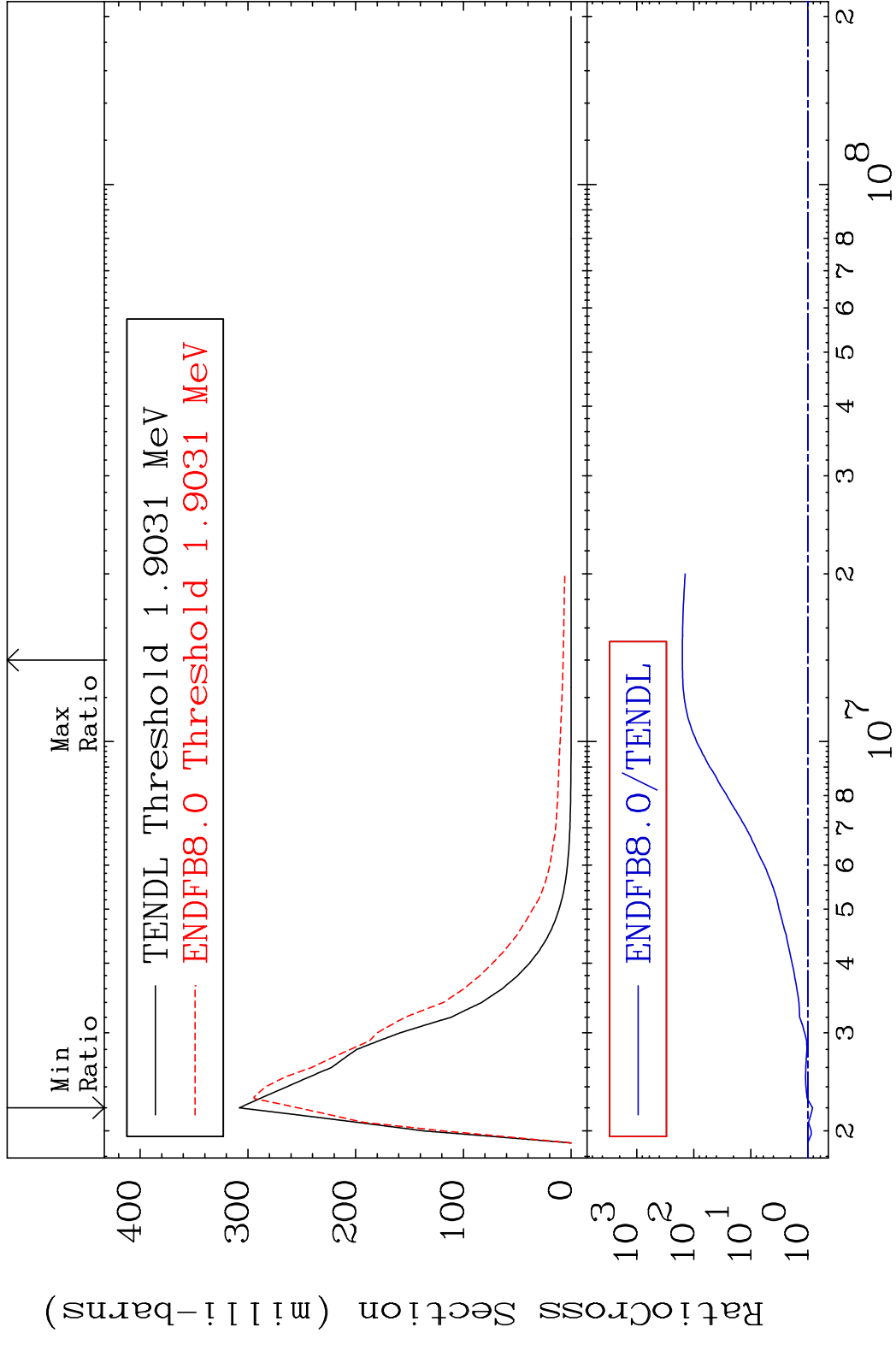


10 Incident Energy (eV) 40-Zr-91

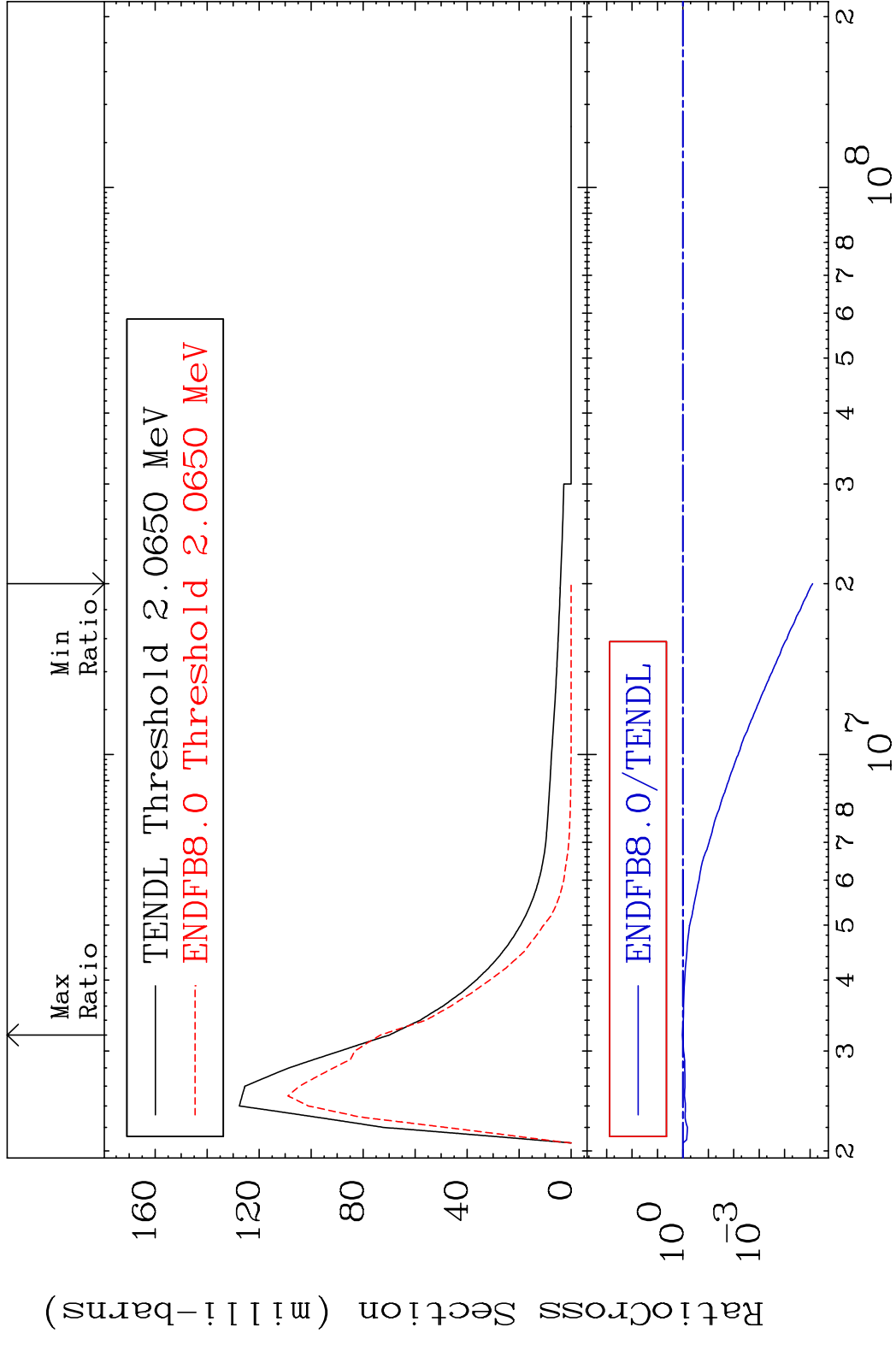
MAT 4028 MT= 52 (n, n') Level 40-Zr-91
 Cross Section -100.0 To -15.55%



MAT 4028 MT= 53 (n, n') Level 40-Zr-91
 Cross Section -17.72 To 9999. %

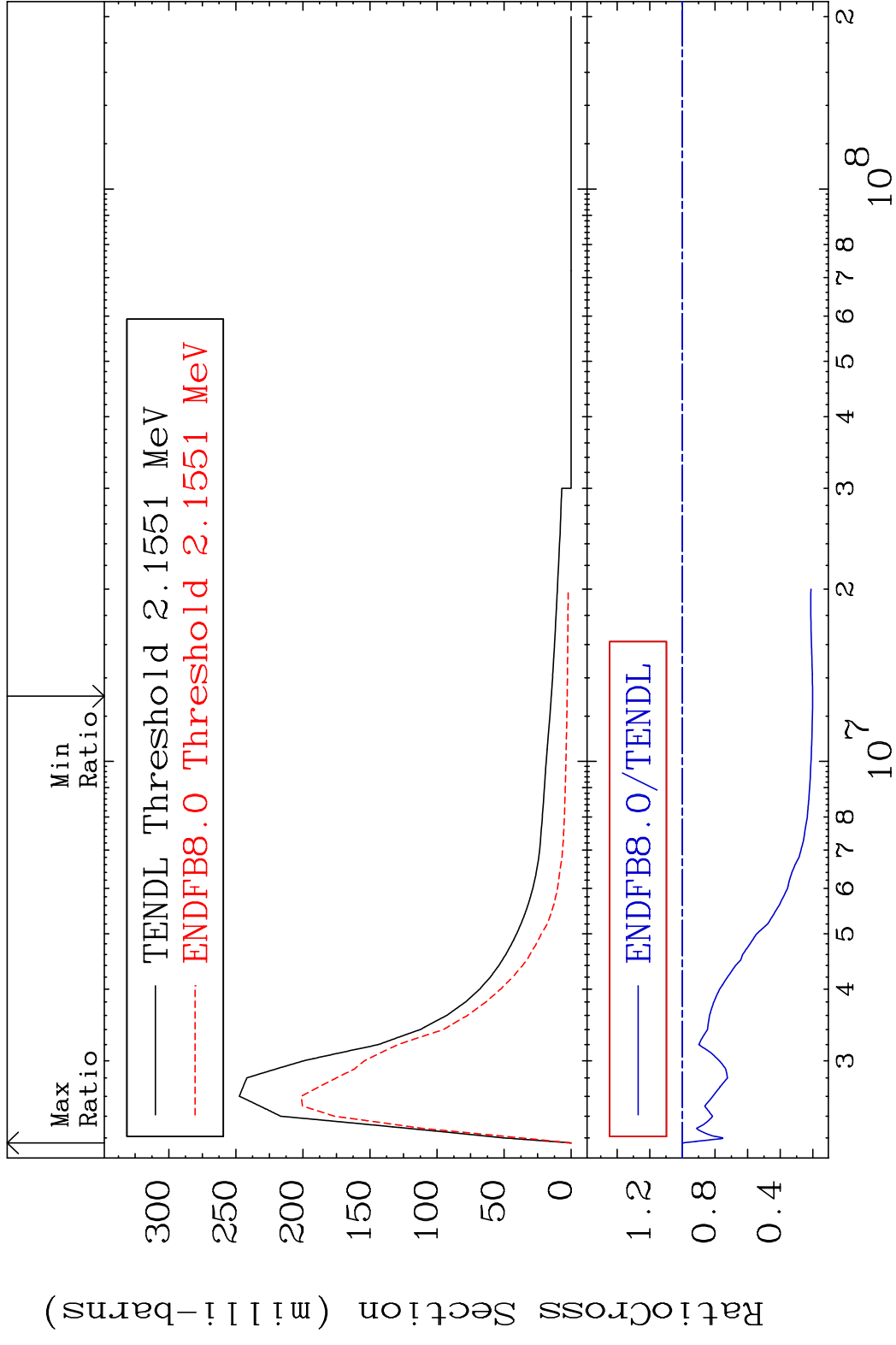


MAT 4028 MT= 54 (n, n') Level 40-Zr-91
 Cross Section -100.0 To 4.830 %

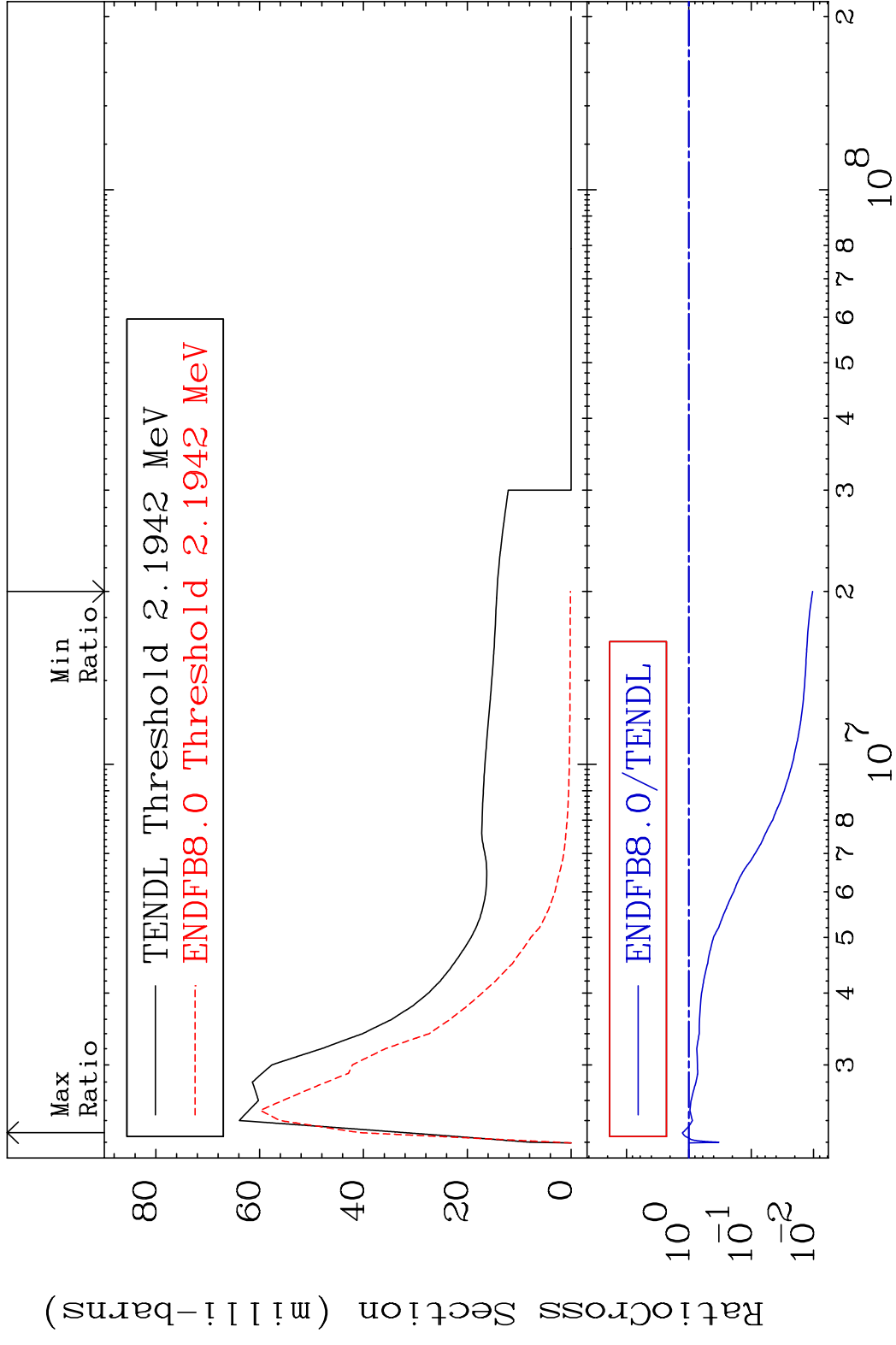


13 Incident Energy (eV) 40-Zr-91

MAT 4028 MT= 55 (n, n') Level 40-Zr-91
 Cross Section -79.77 To 0.000 %

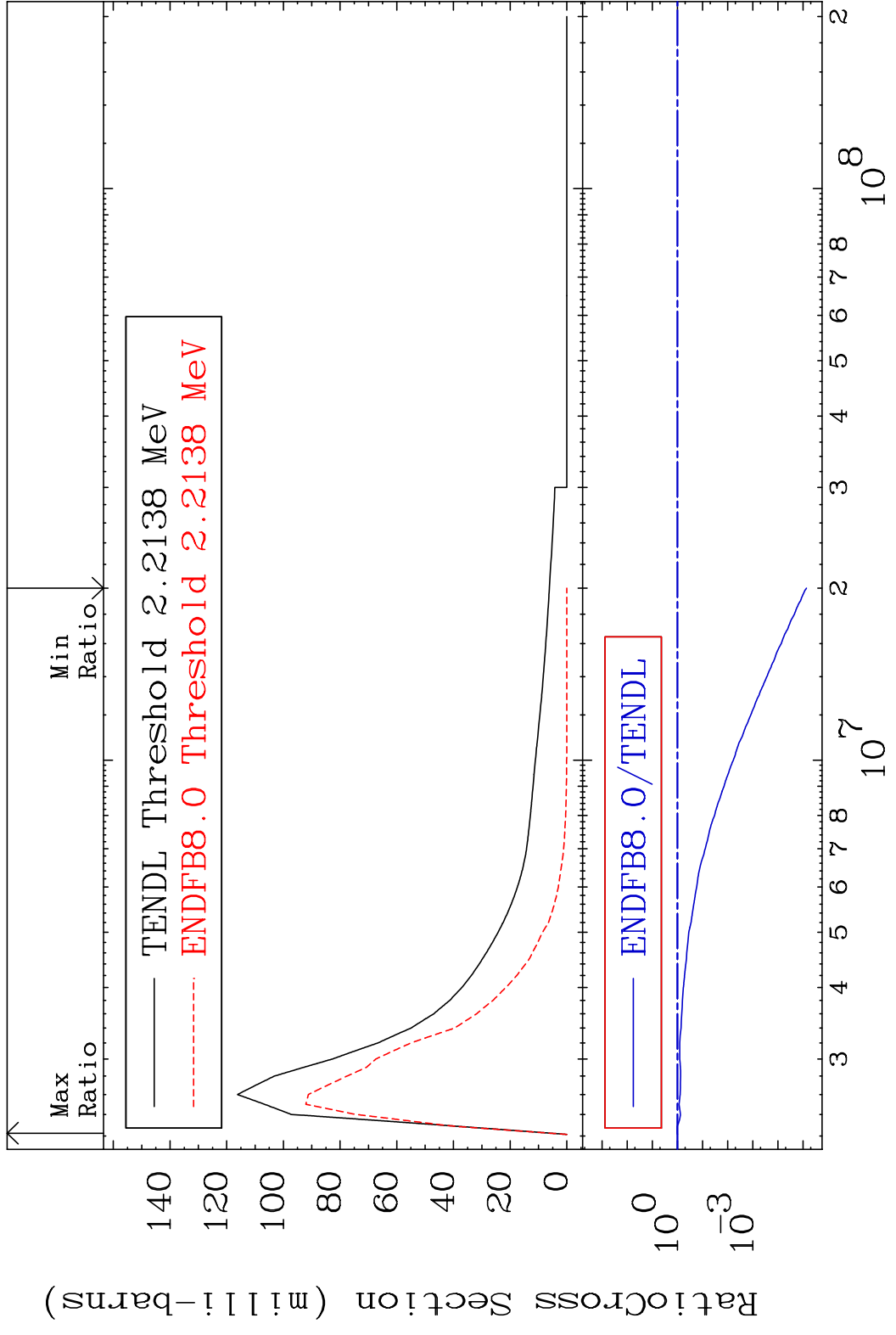


MAT 4028 MT= 56 (n, n') Level 40-Zr-91
 Cross Section -98.96 To 27.06 %

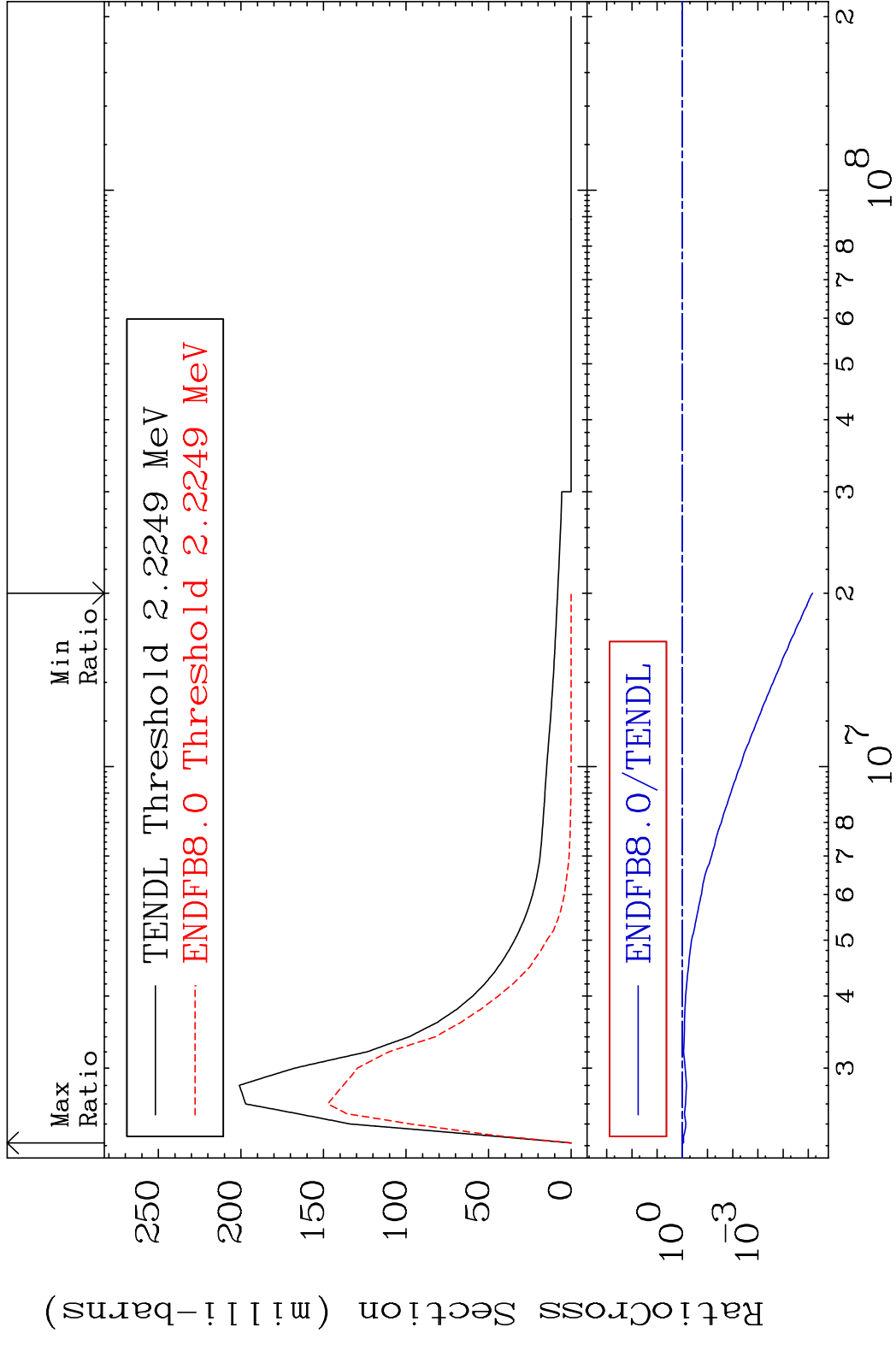


15 40-Zr-91

MAT 4028 MT= 57 (n,n') Level 40-Zr-91
 Cross Section -100.0 To 2.890 %

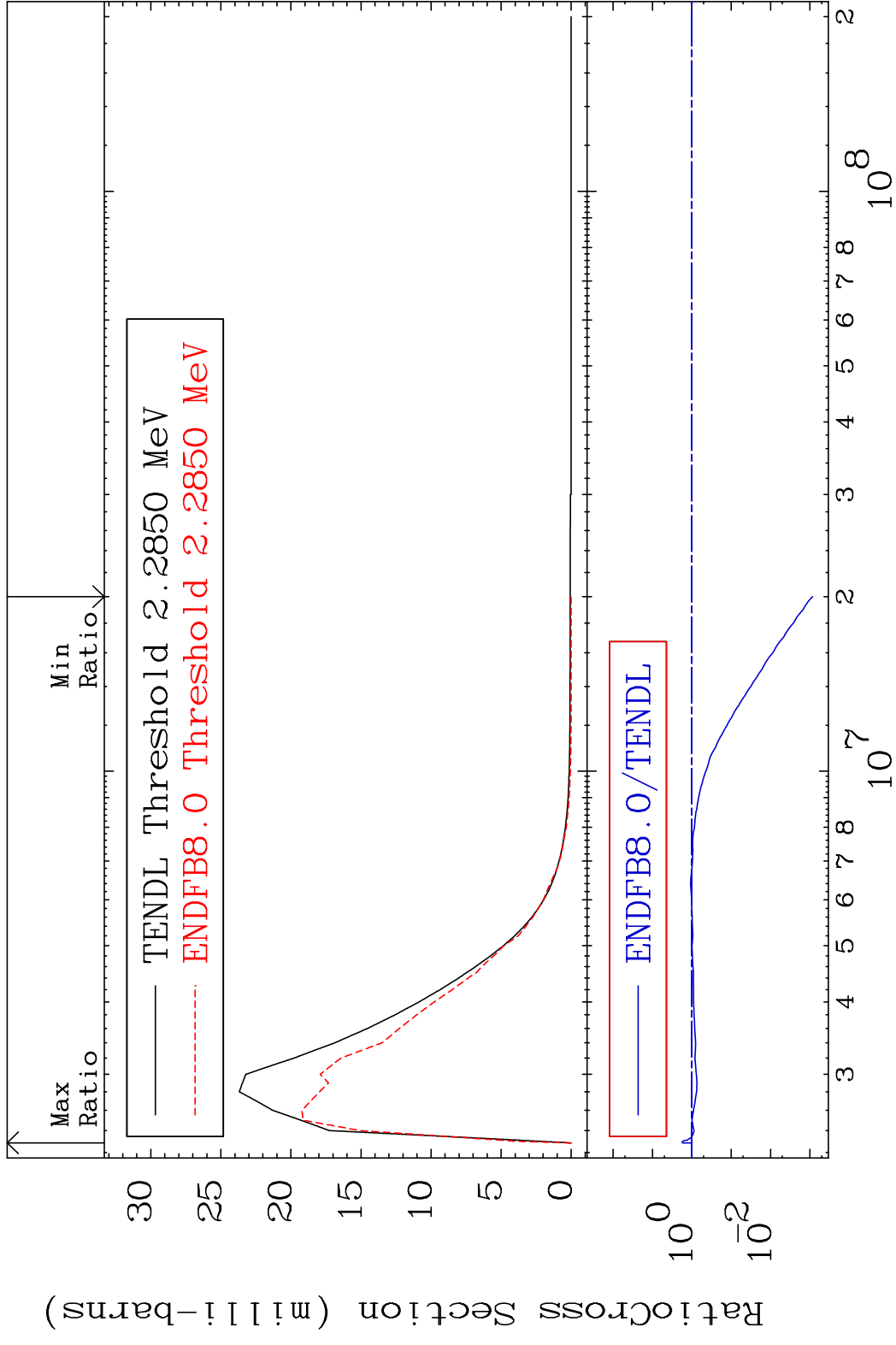


MAT 4028 MT= 58 (n,n') Level 40-Zr-91
 Cross Section -100.0 To 0.000 %



17 40-Zr-91

MAT 4028 MT= 59 (n, n') Level 40-Zr-91
 Cross Section -99.91 To 74.01 %



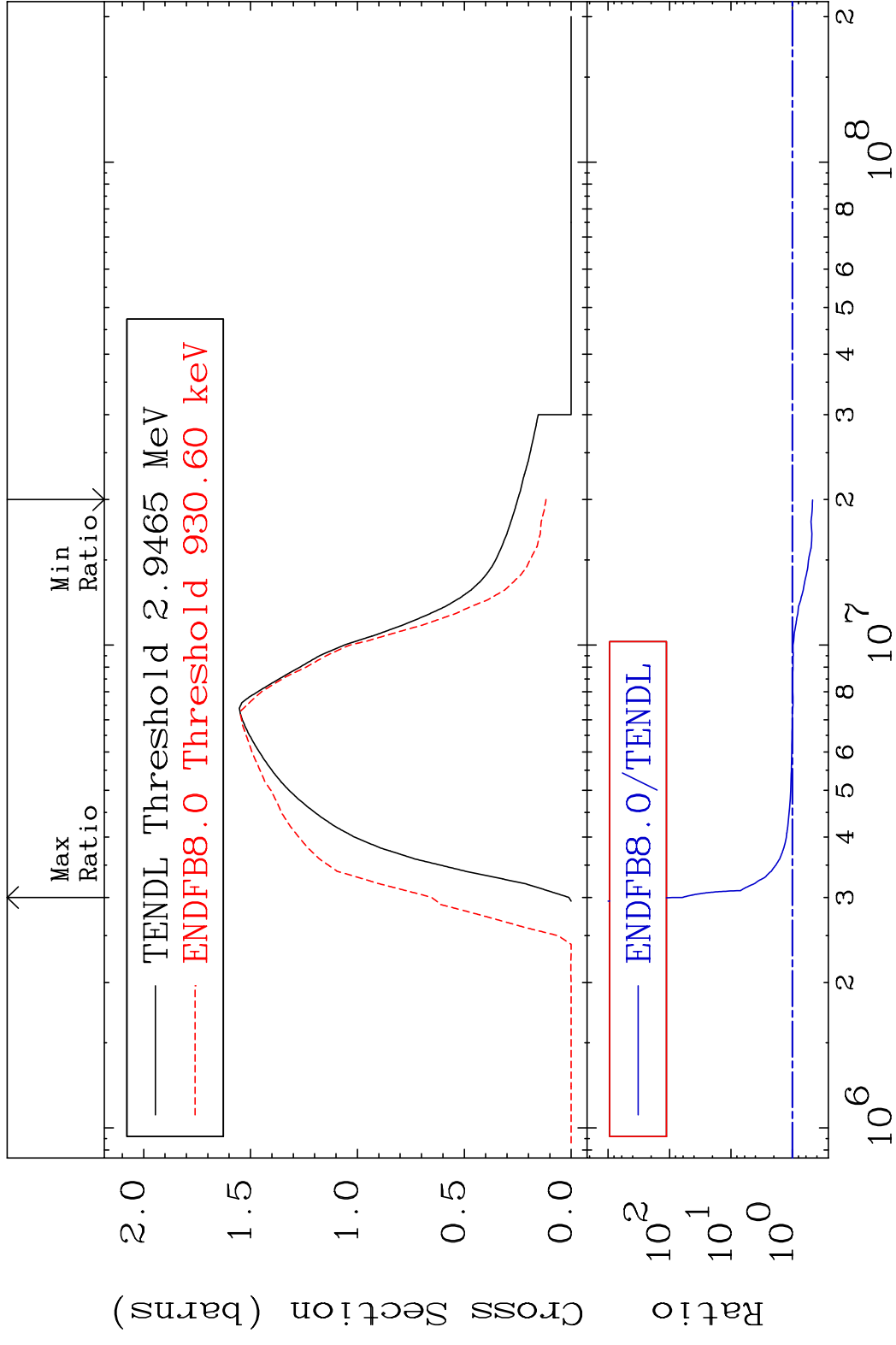
18 40-Zr-91

MAT 4028

(n,n') Continuum

40-Zr-91

Cross Section -53.00 To 6089. %



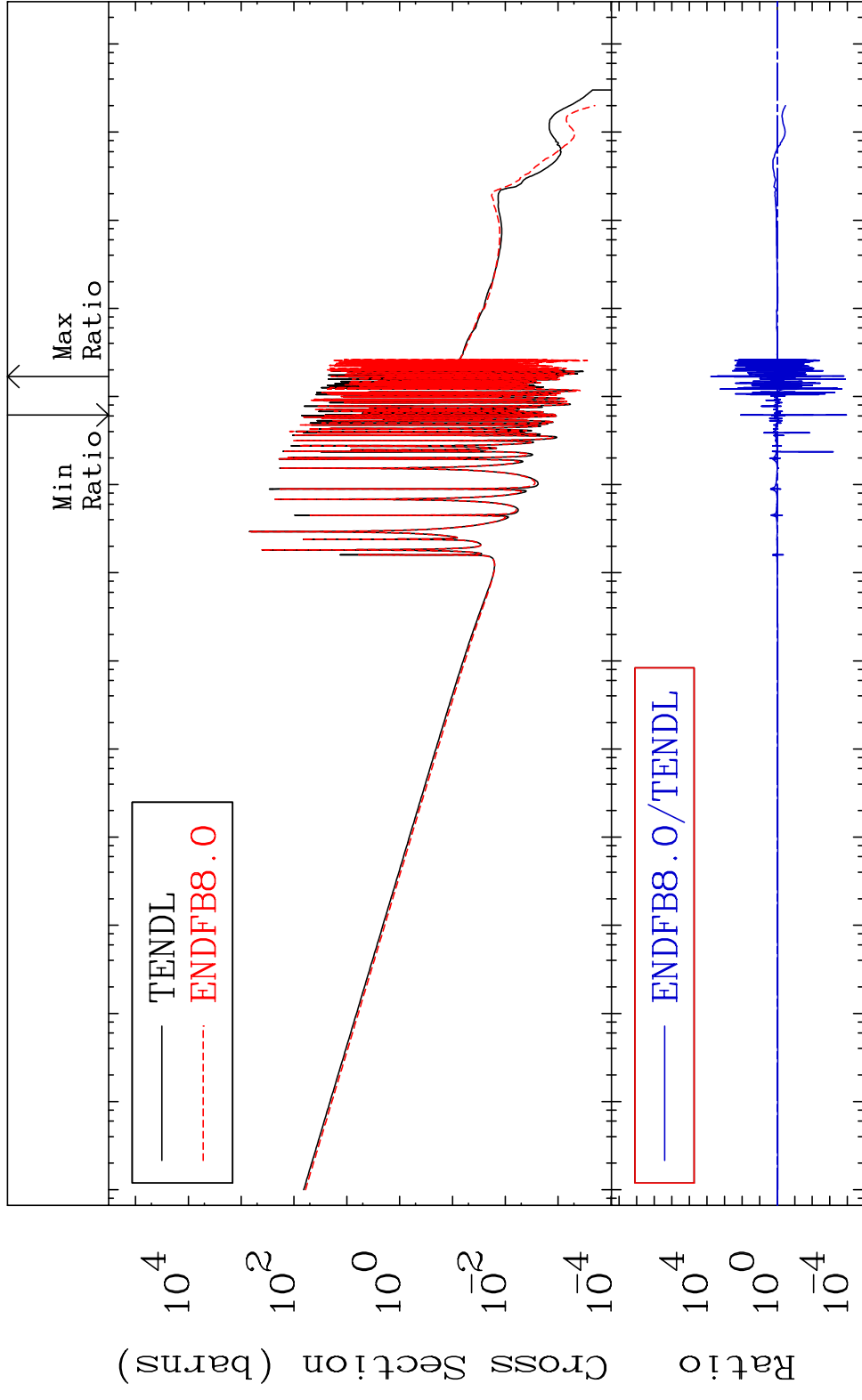
19

Incident Energy (eV)

40-Zr-91

MAT 4028

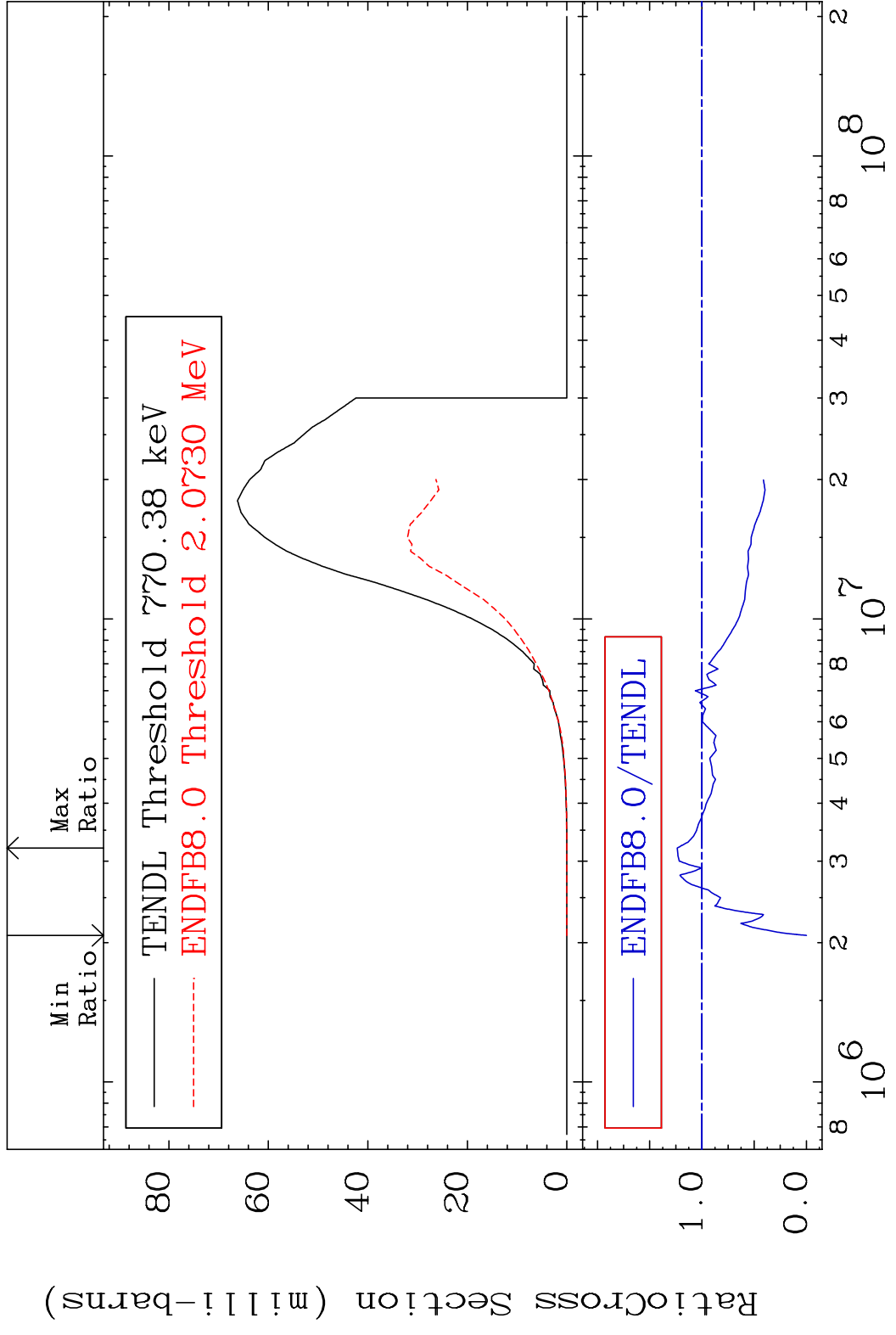
(n, γ)
Cross Section 40-Zr-91
-99.99 To 9999. %



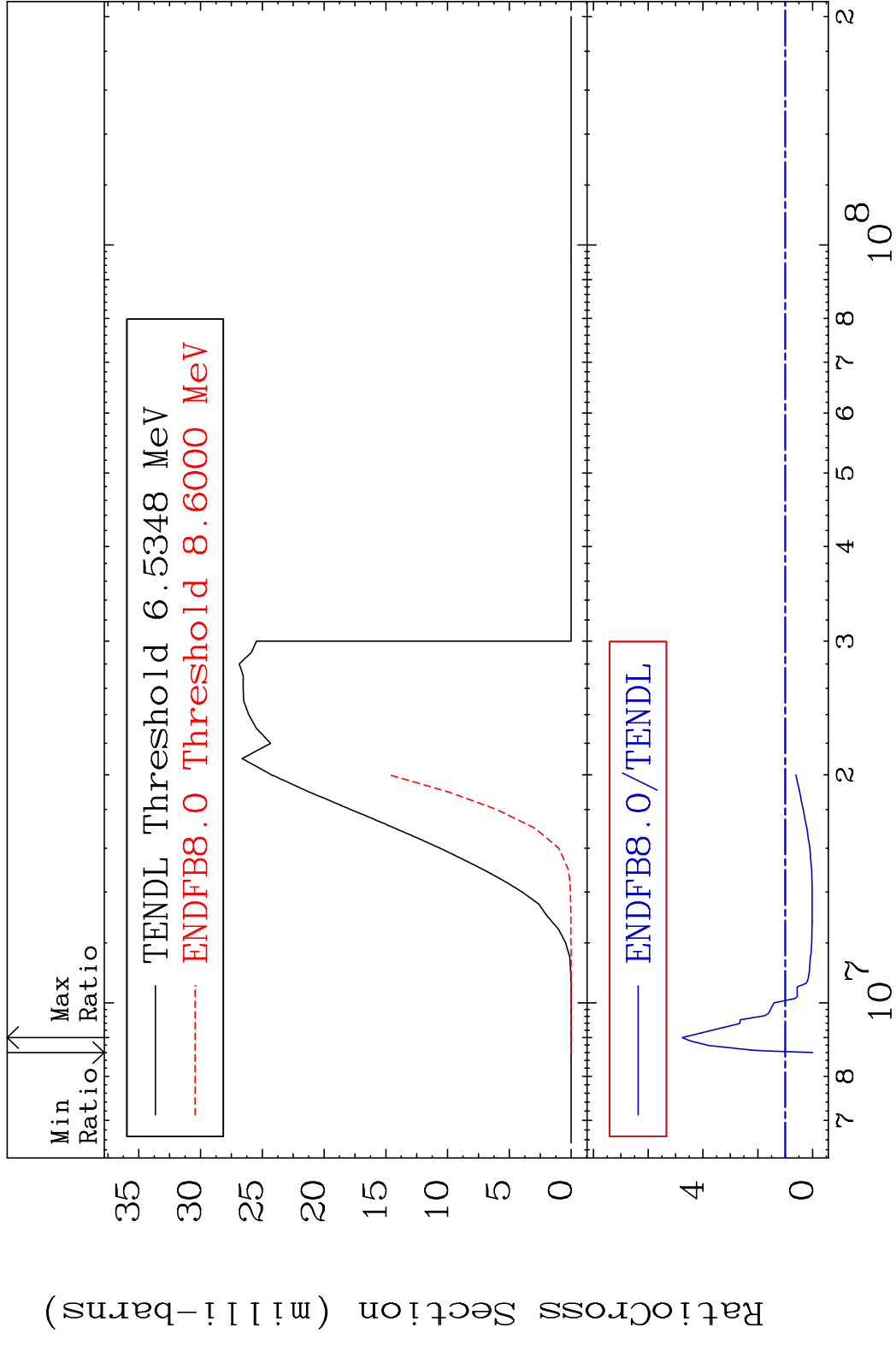
20

Incident Energy (eV) 40-Zr-91

MAT 4028 (n,p) 40-Zr-91
 Cross Section -100.0 To 23.68 %



MAT 4028 (n,d) 40-Zr-91
 Cross Section -100.0 To 375.3 %

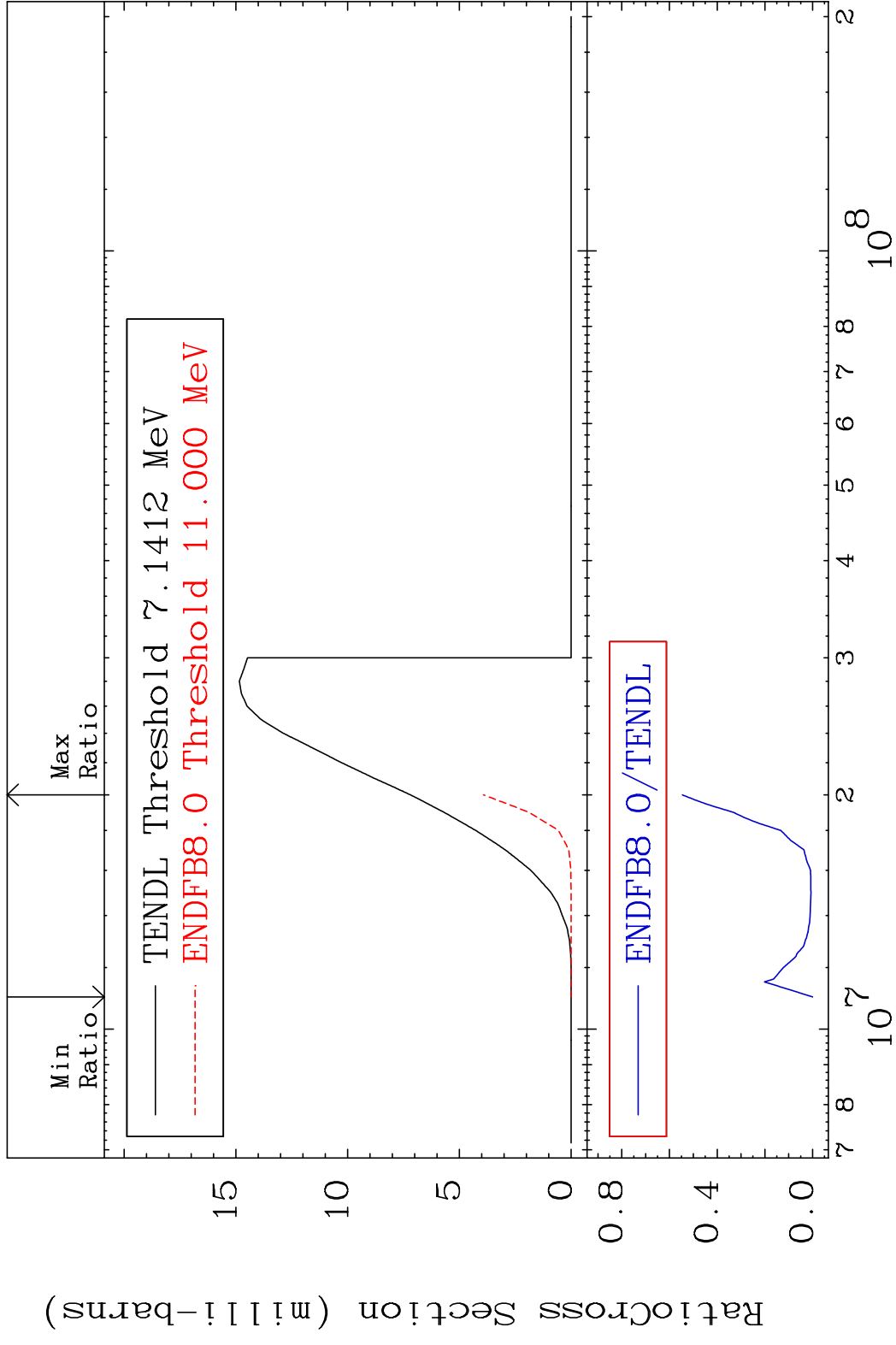


MAT 4028

40-Zr-91

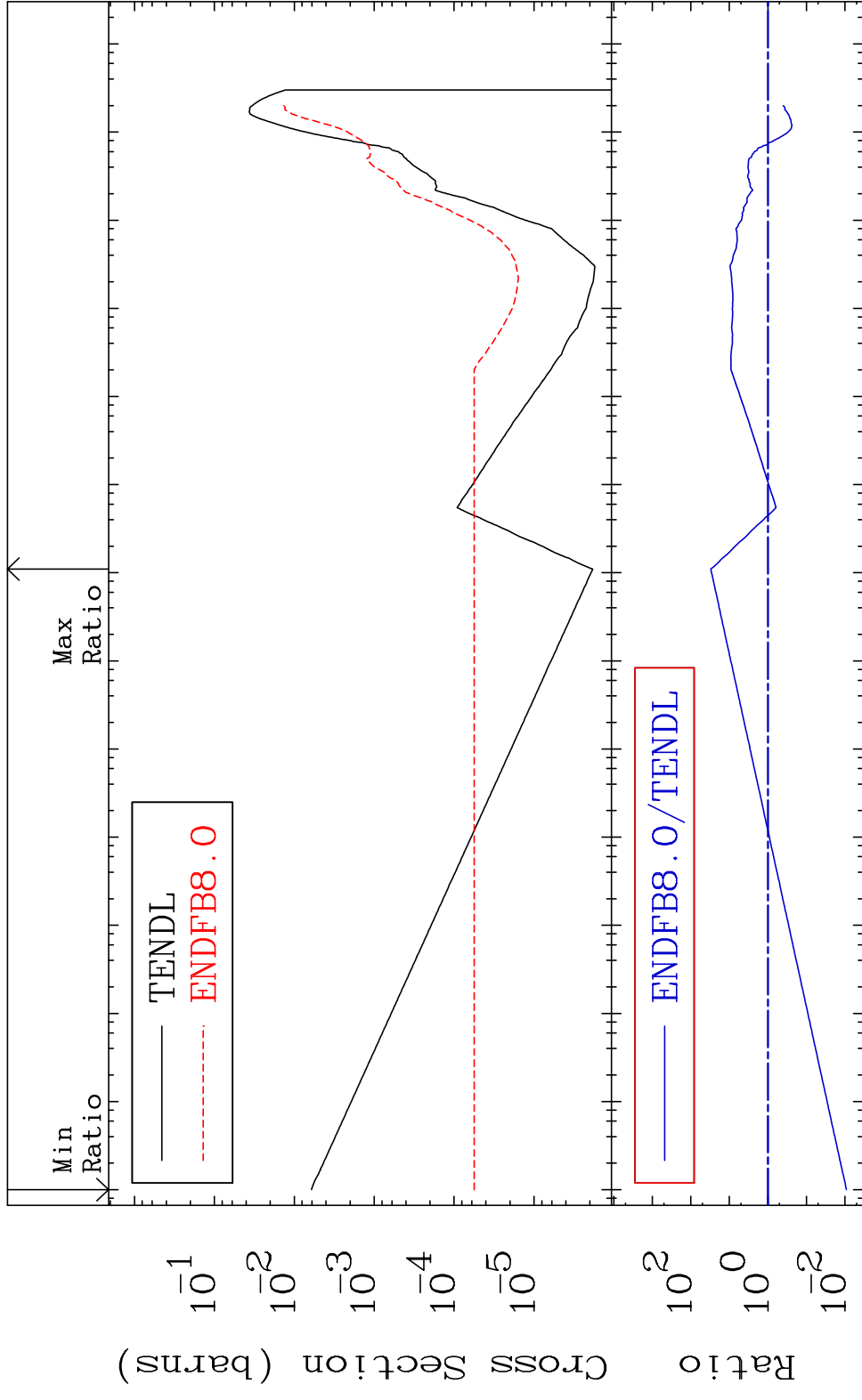
(n, t)

Cross Section -100.0 To -45.39%



MAT 4028

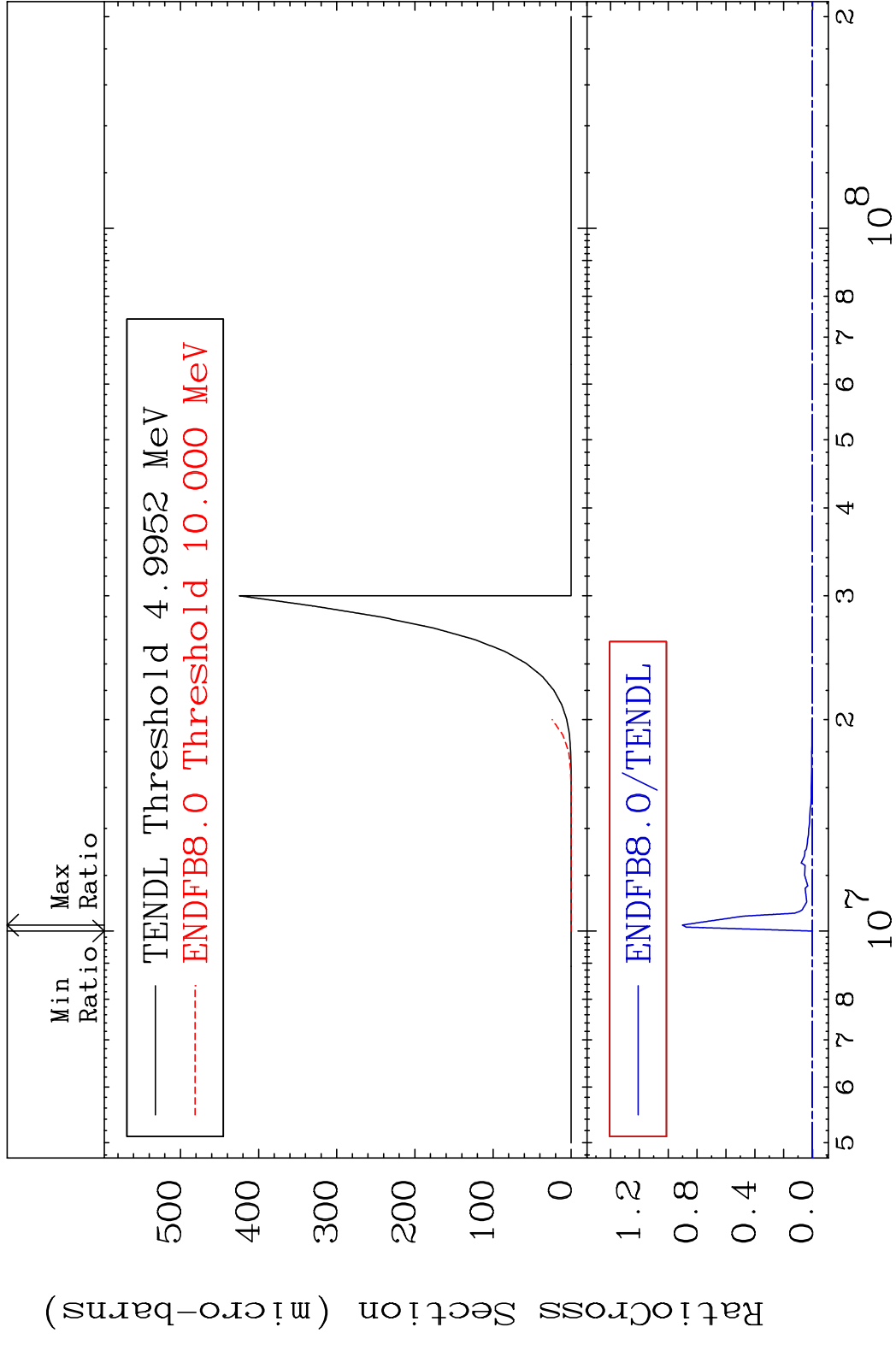
(n, α)
Cross Section -99.08 To 2955. %
40-Zr-91



24

Incident Energy (eV) 40-Zr-91

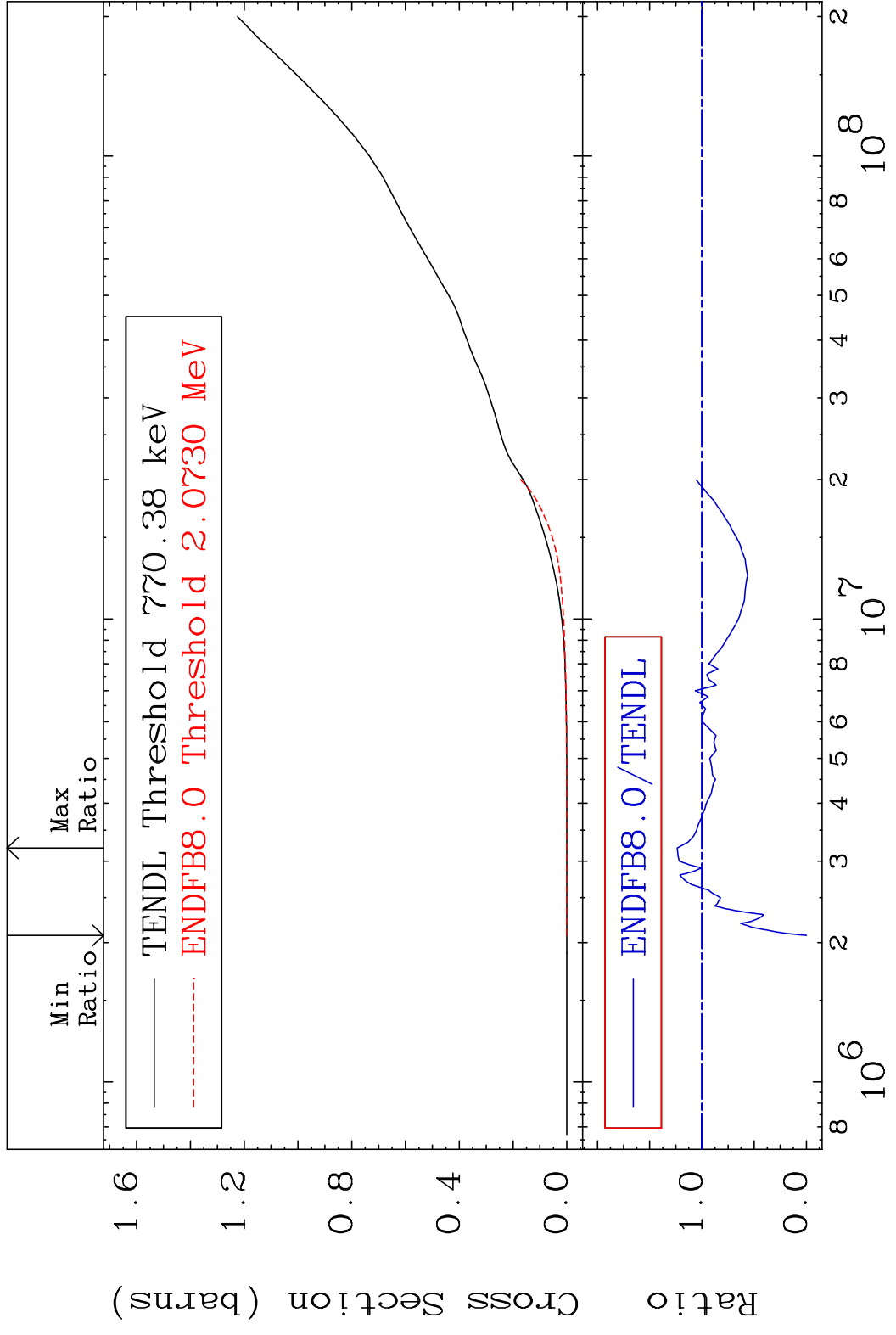
MAT 4028 (n,p) α 40-Zr-91
 Cross Section -100.0 To 9999. %



MAT 4028

Hydrogen Production
Cross Section -100.0 To 23.68 %

40-Zr-91



26

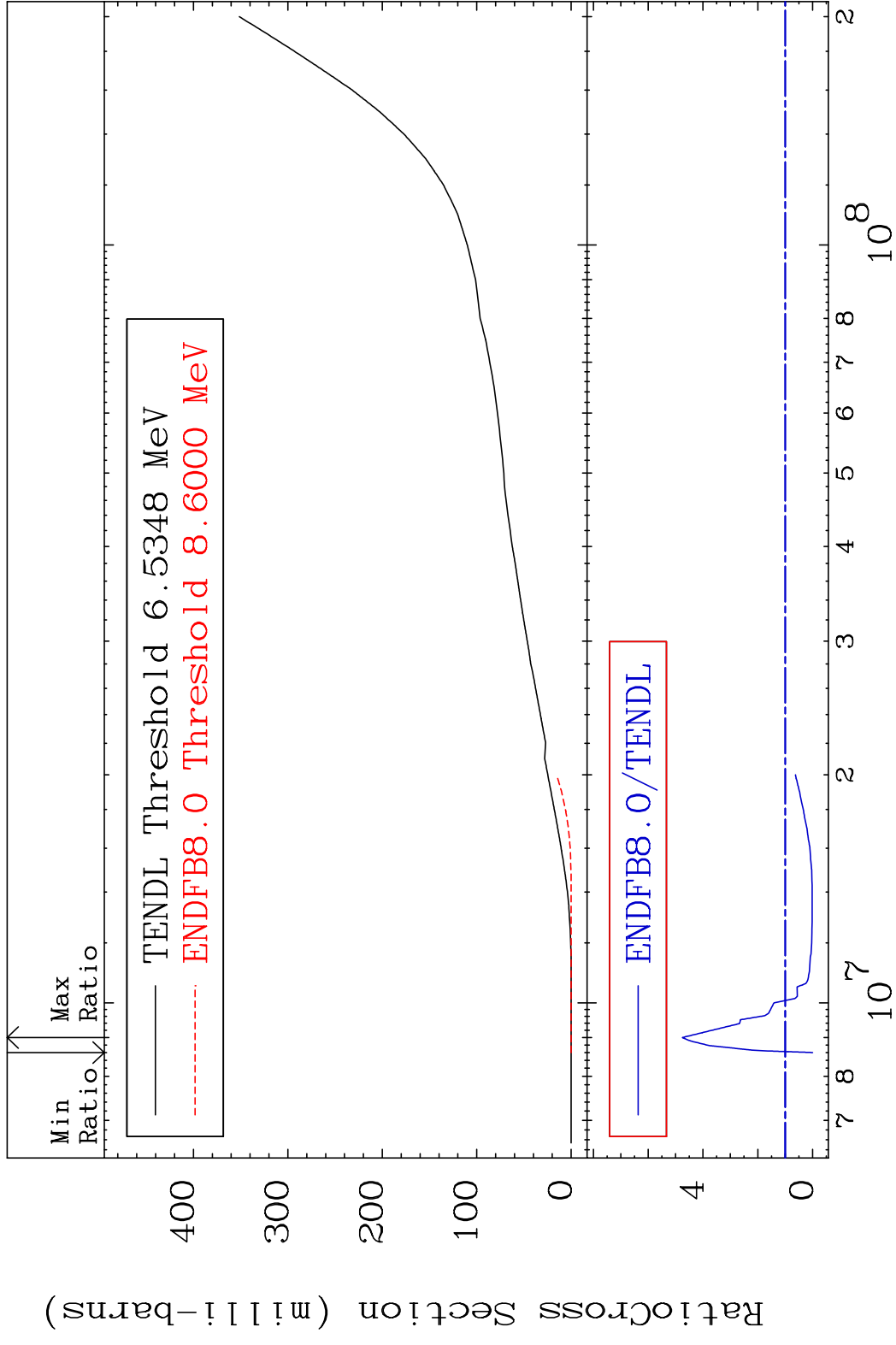
Incident Energy (eV)

40-Zr-91

MAT 4028

Deuterium Production 40-Zr-91

Cross Section -100.0 To 375.3 %

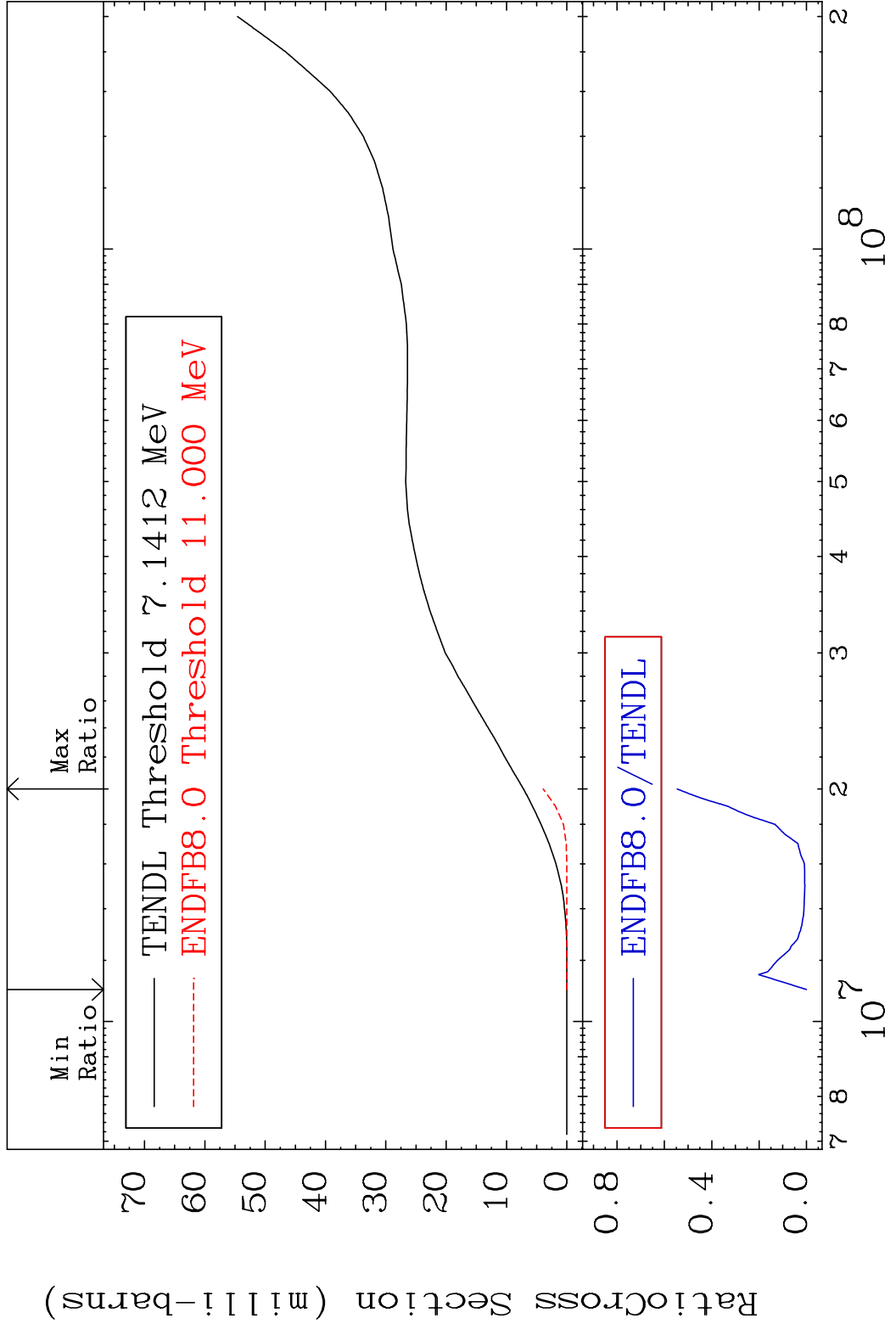


27

40-Zr-91

MAT 4028

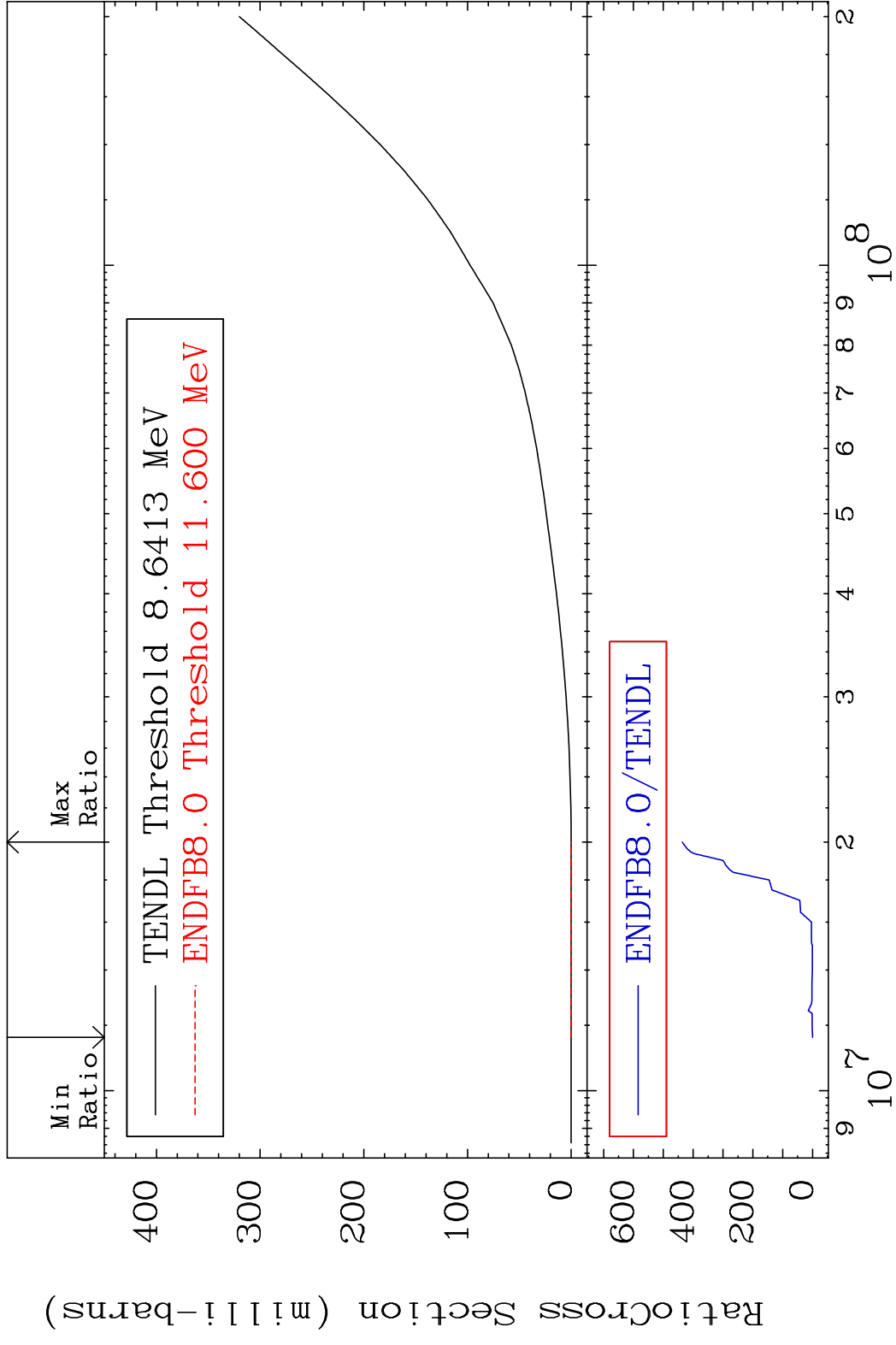
Tritium Production 40-Zr-91
Cross Section -100.0 To -45.39%



28

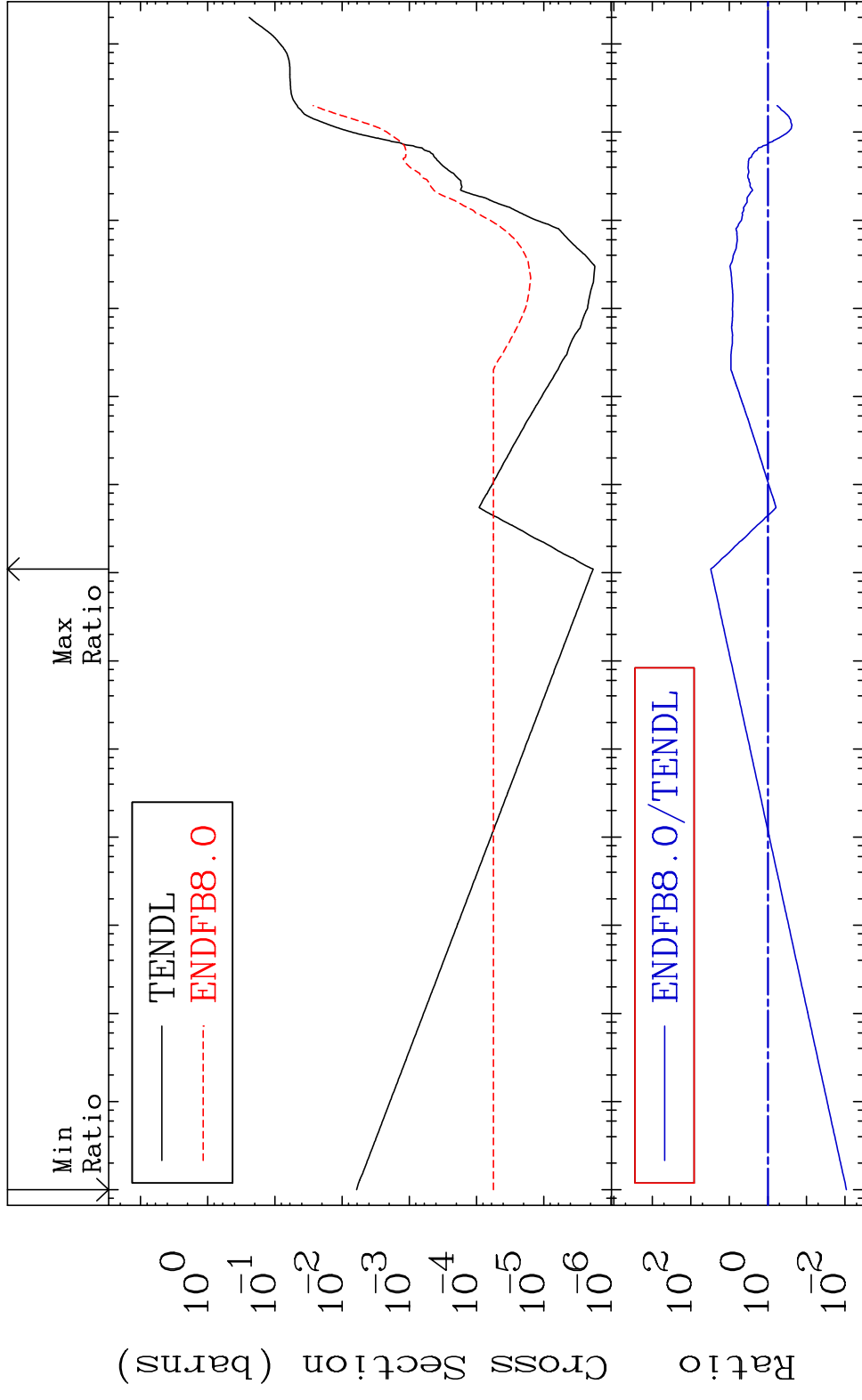
40-Zr-91

MAT 4028 He-3 Production 40-Zr-91
 Cross Section -100.0 To -99.96%



29 40-Zr-91

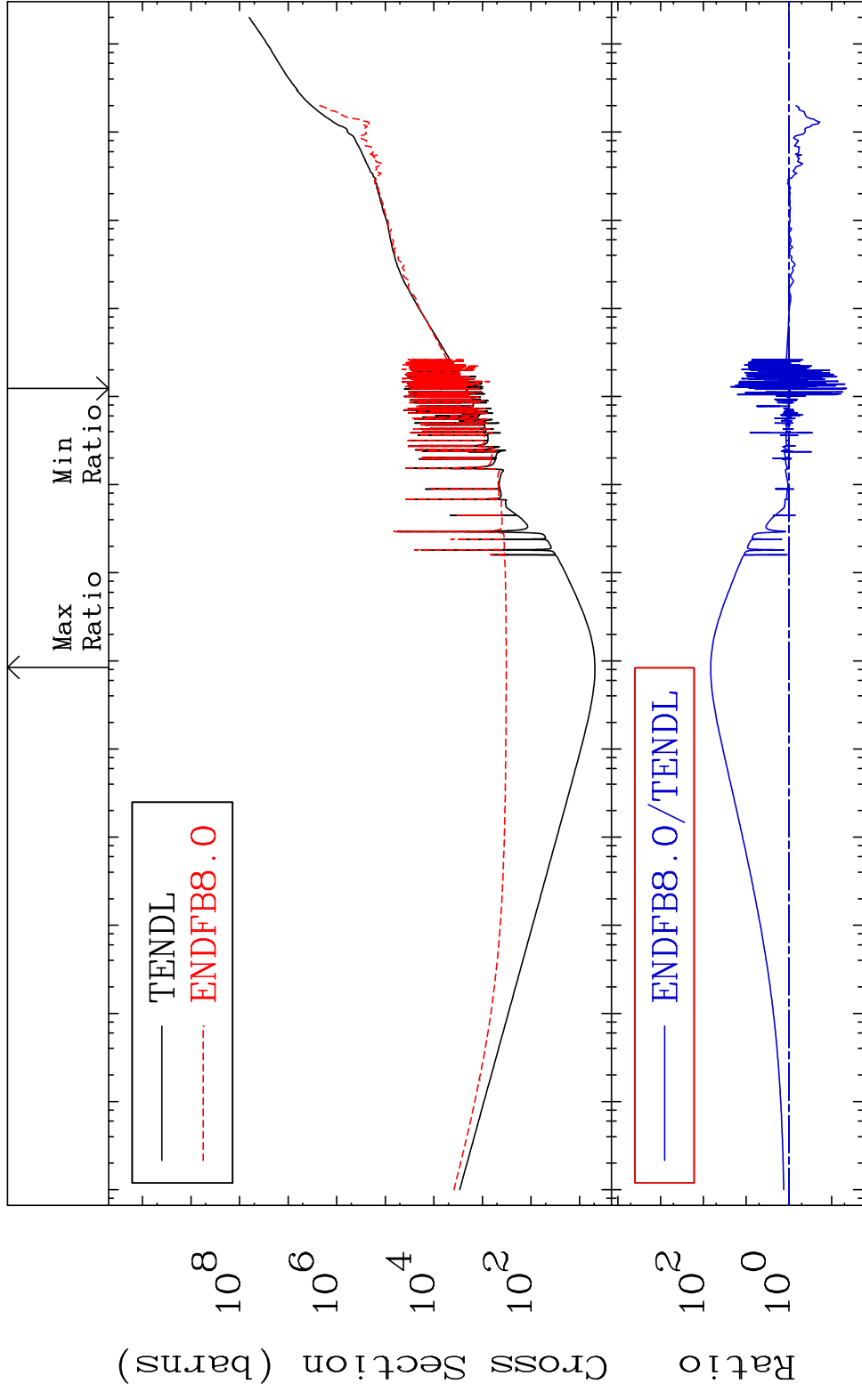
MAT 4028 He-4 Production 40-Zr-91
 Cross Section -99.08 To 2955. %



10⁰
 10⁻¹
 10⁻²
 10⁻³
 10⁻⁴
 10⁻⁵
 10⁻⁶
 10²
 10⁰
 10⁻²
 10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

30 Incident Energy (eV) 40-Zr-91

MAT 4028 Kerma total (eV-barns) 40-Zr-91
 Cross Section -95.49 To 6613. %

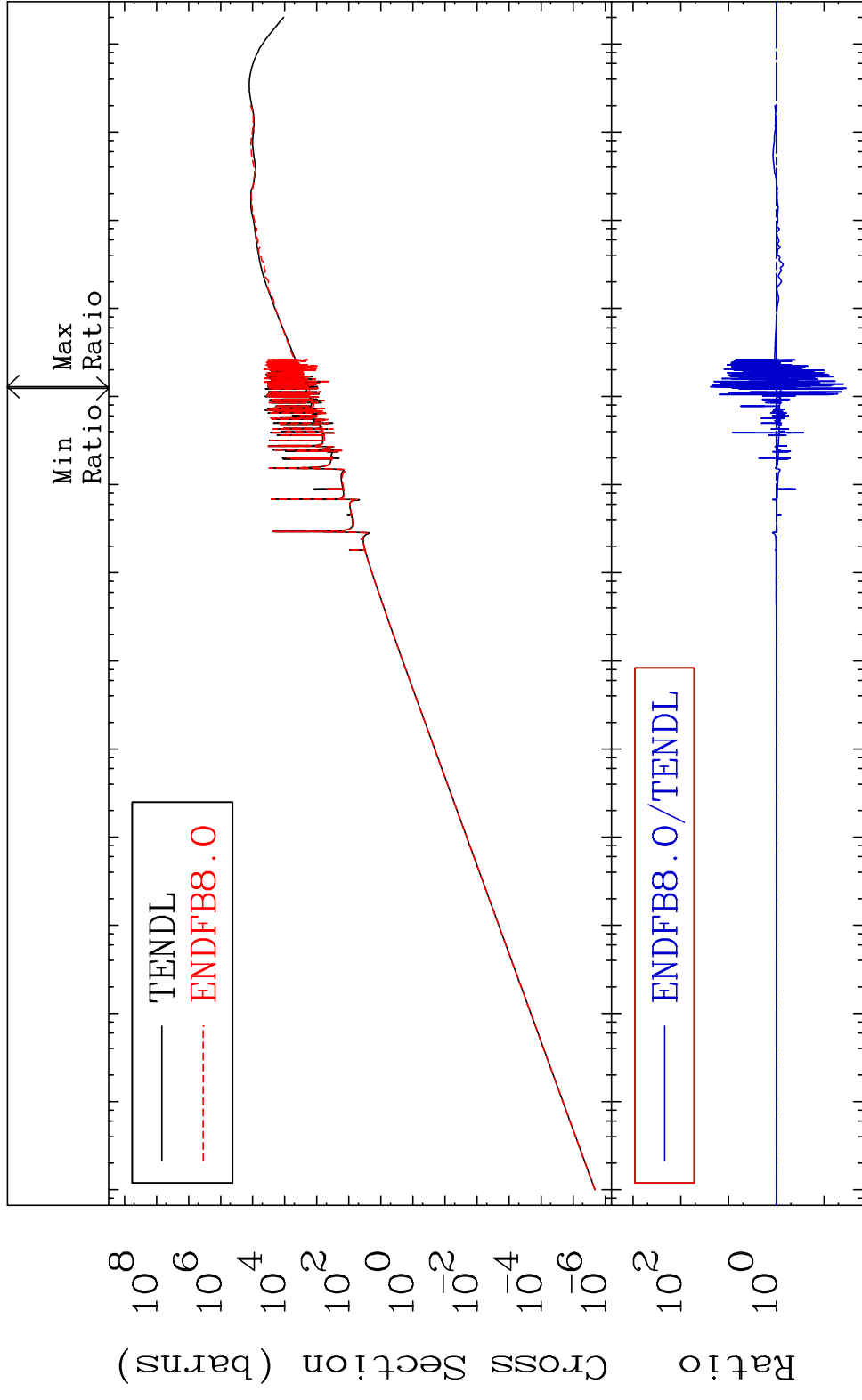


31 Incident Energy (eV) 40-Zr-91

MAT 4028

Kerma elastic
Cross Section

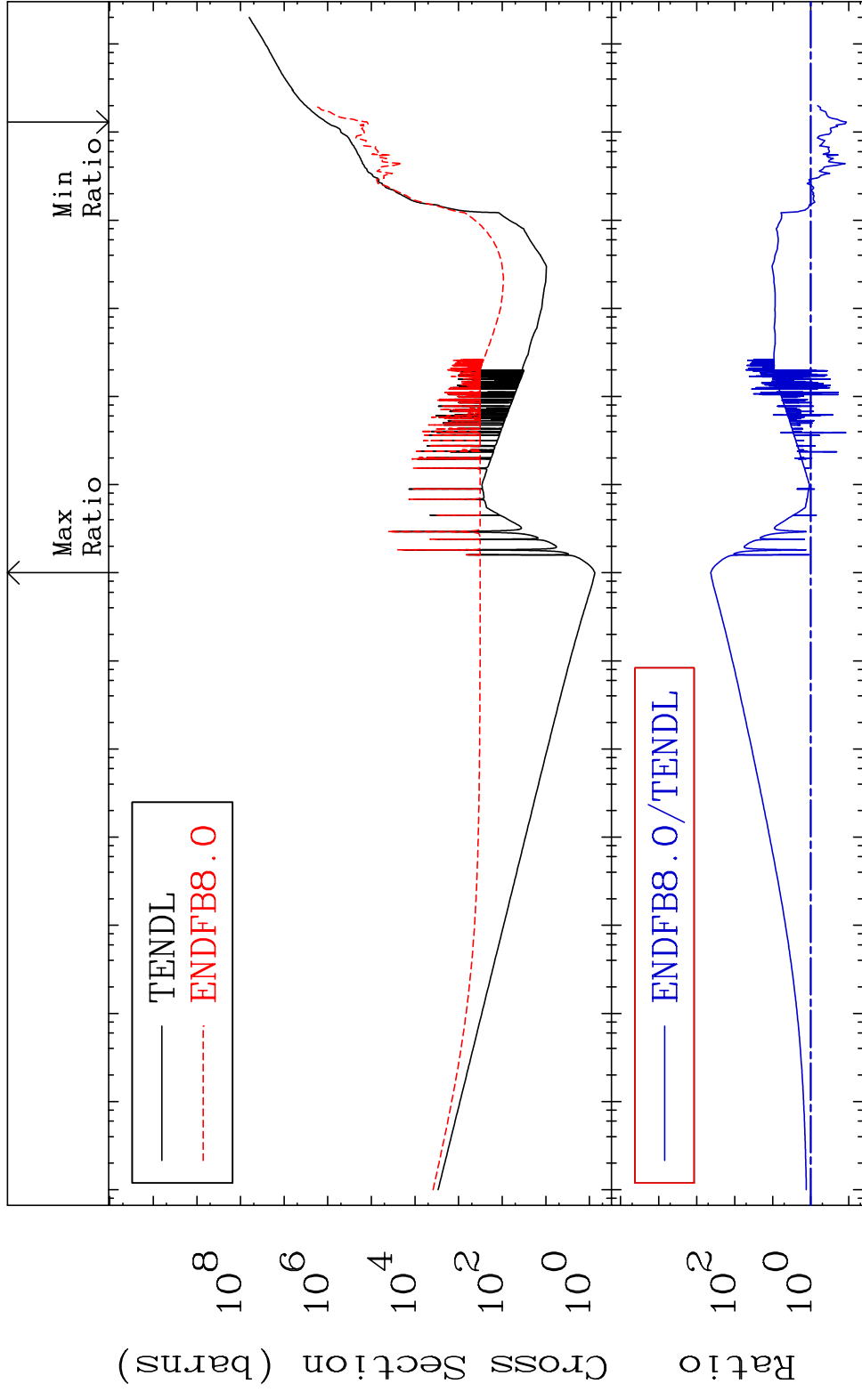
40-Zr-91
-96.59 To 2272. %



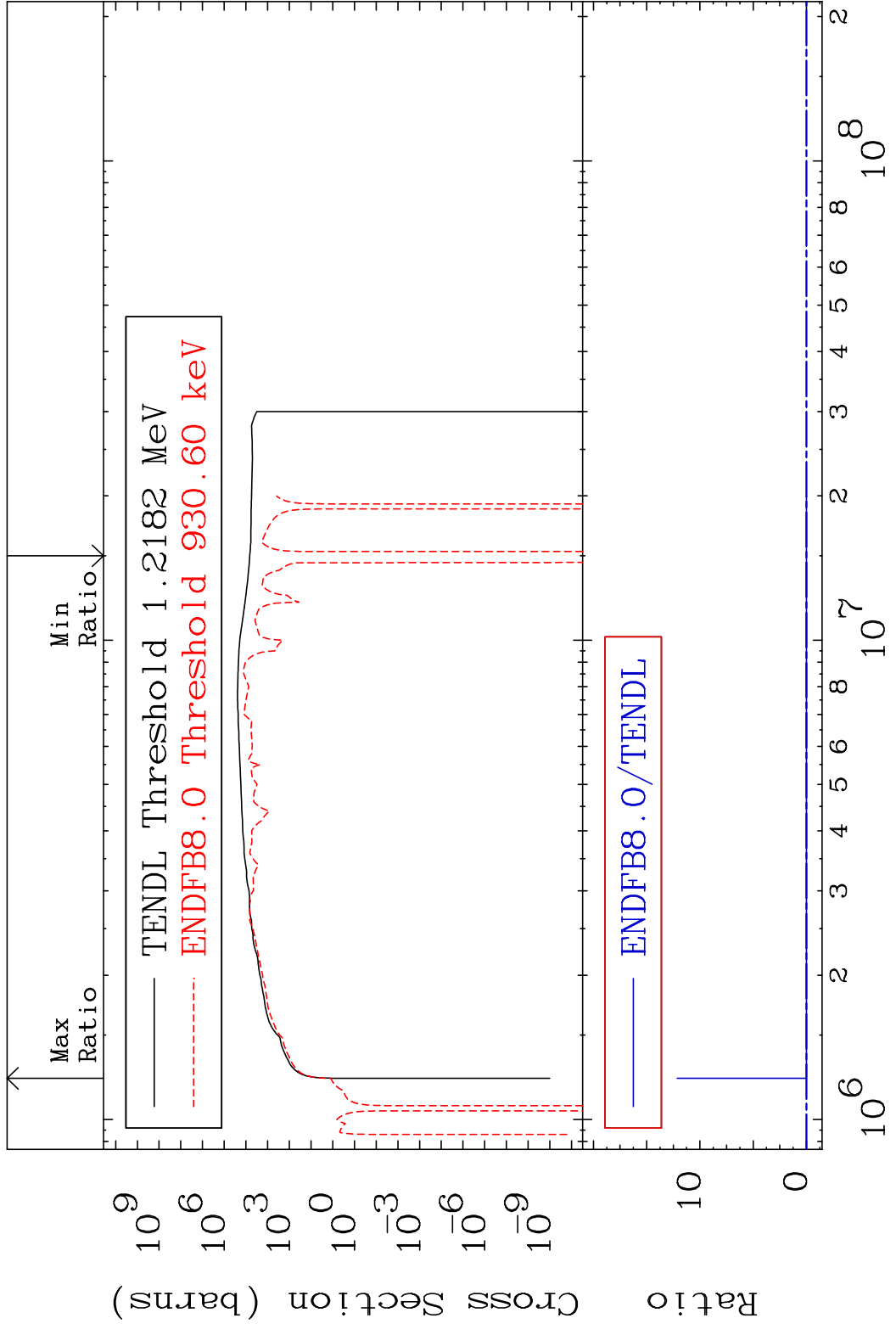
10⁸
10⁶
10⁴
10²
10⁰
10⁻²
10⁻⁴
10⁻⁶
Cross Section (barns)

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

MAT 4028 Kerma non-elastic (all but mt2) 40-Zr-91
 Cross Section -88.33 To 9999. %

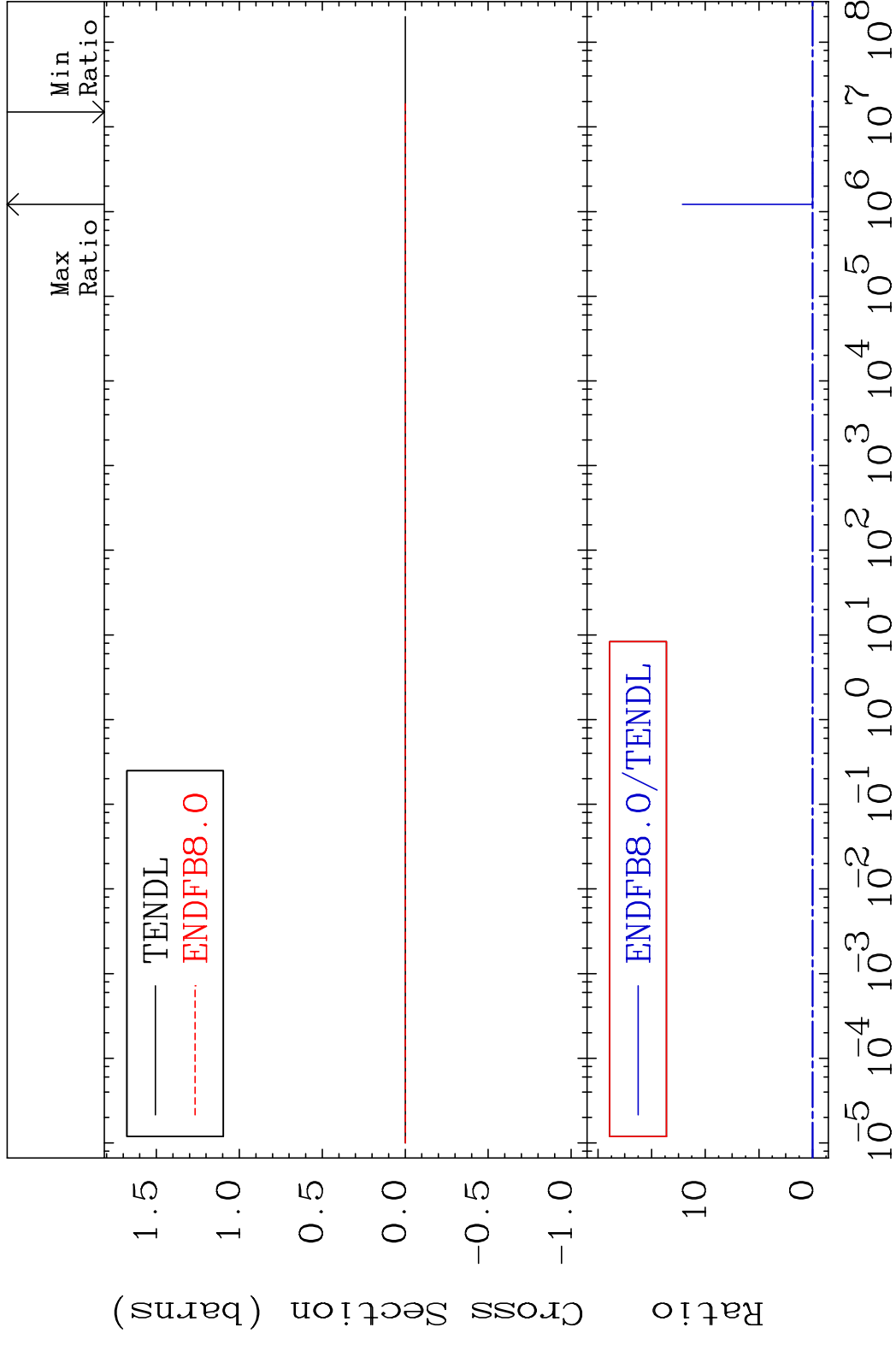


MAT 4028 Kerma inelastic (mt51-91) 40-Zr-91
 Cross Section -112.1 To 9999. %



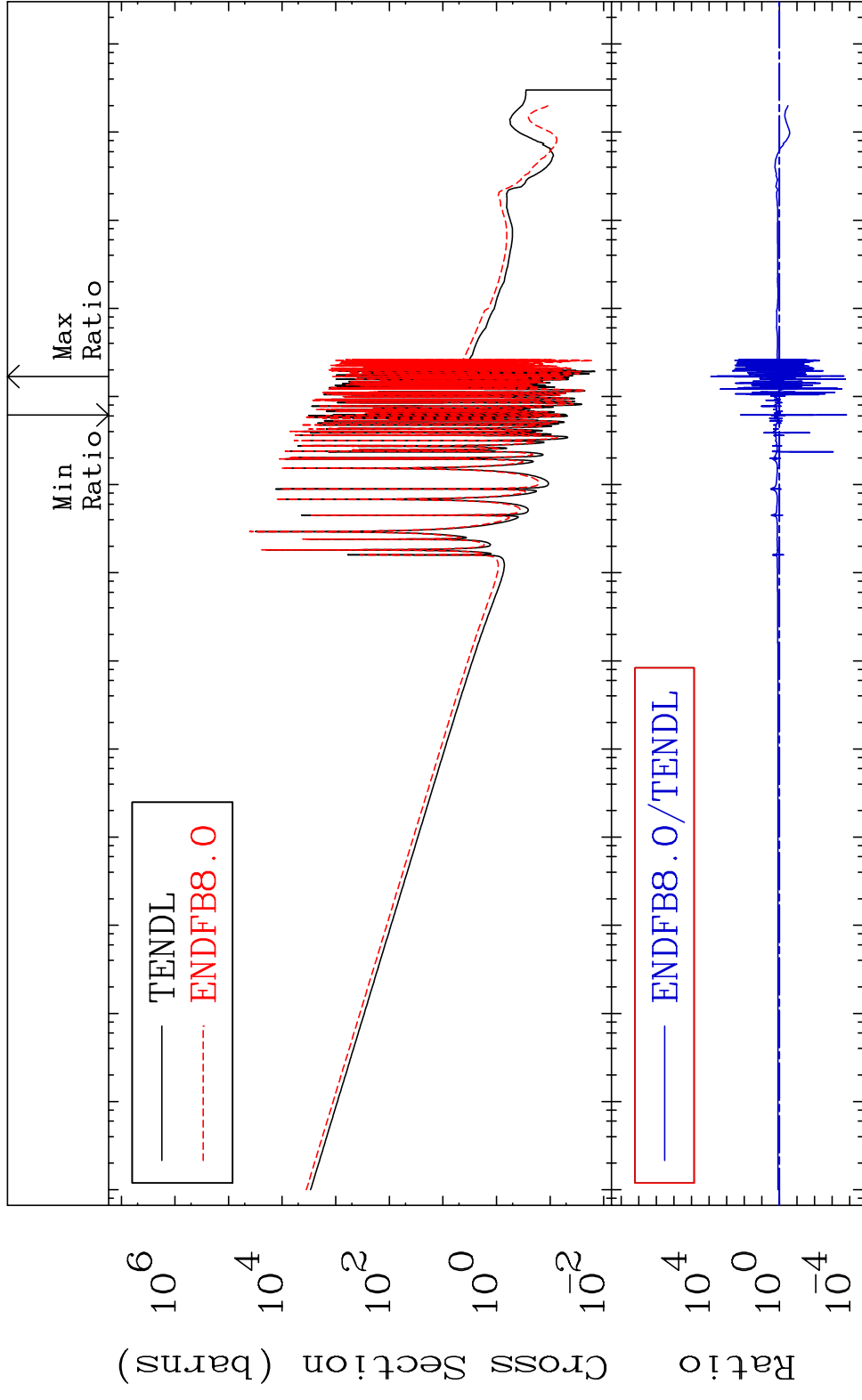
34 Incident Energy (eV) 40-Zr-91

MAT 4028 Kerma fission (mt18 or mt19-20-21-38) 40-Zr-91
 Cross Section -112.1 To 9999. %



MAT 4028

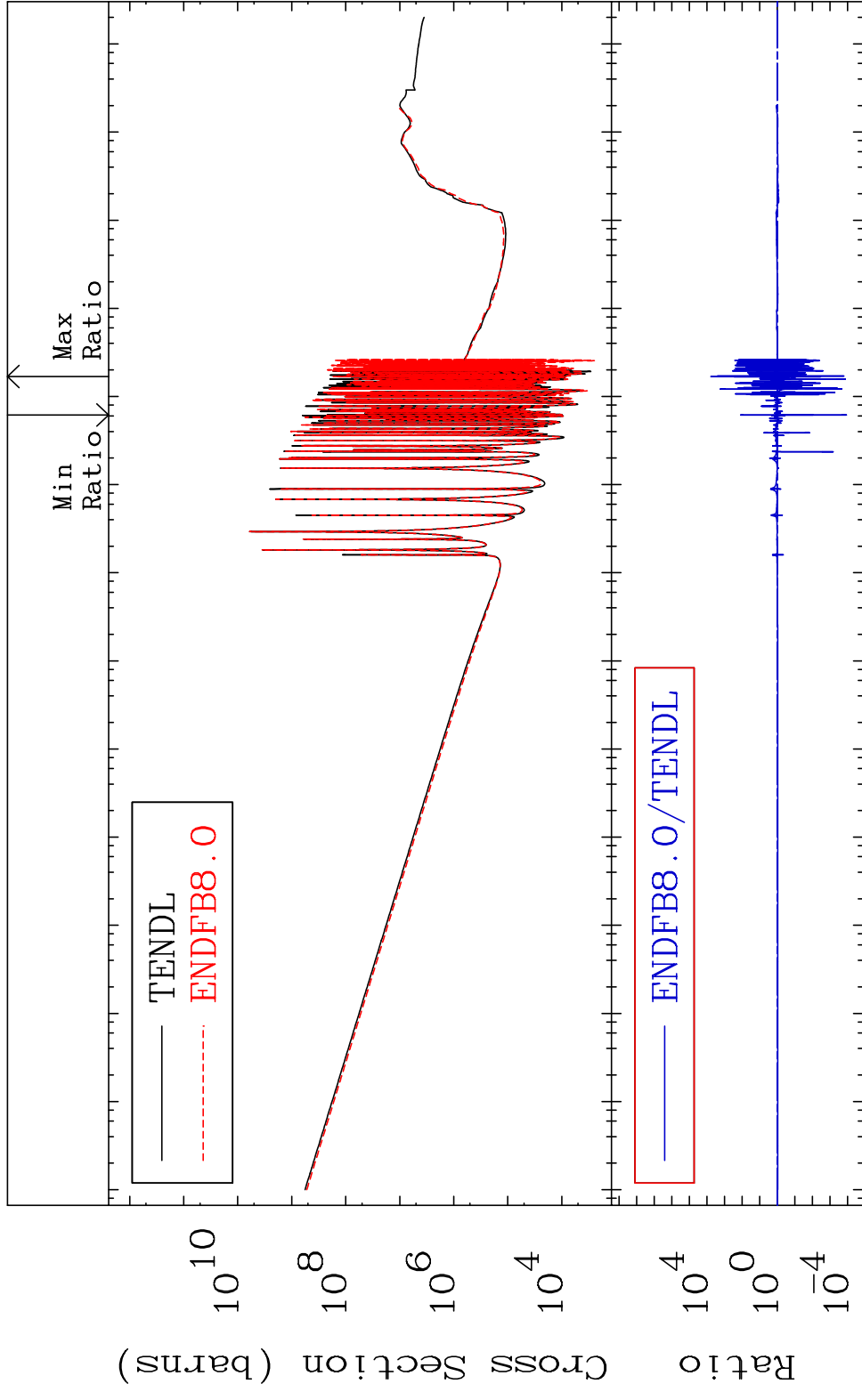
Kerma capture (mt102) 40-Zr-91
Cross Section -99.98 To 9999. %



36

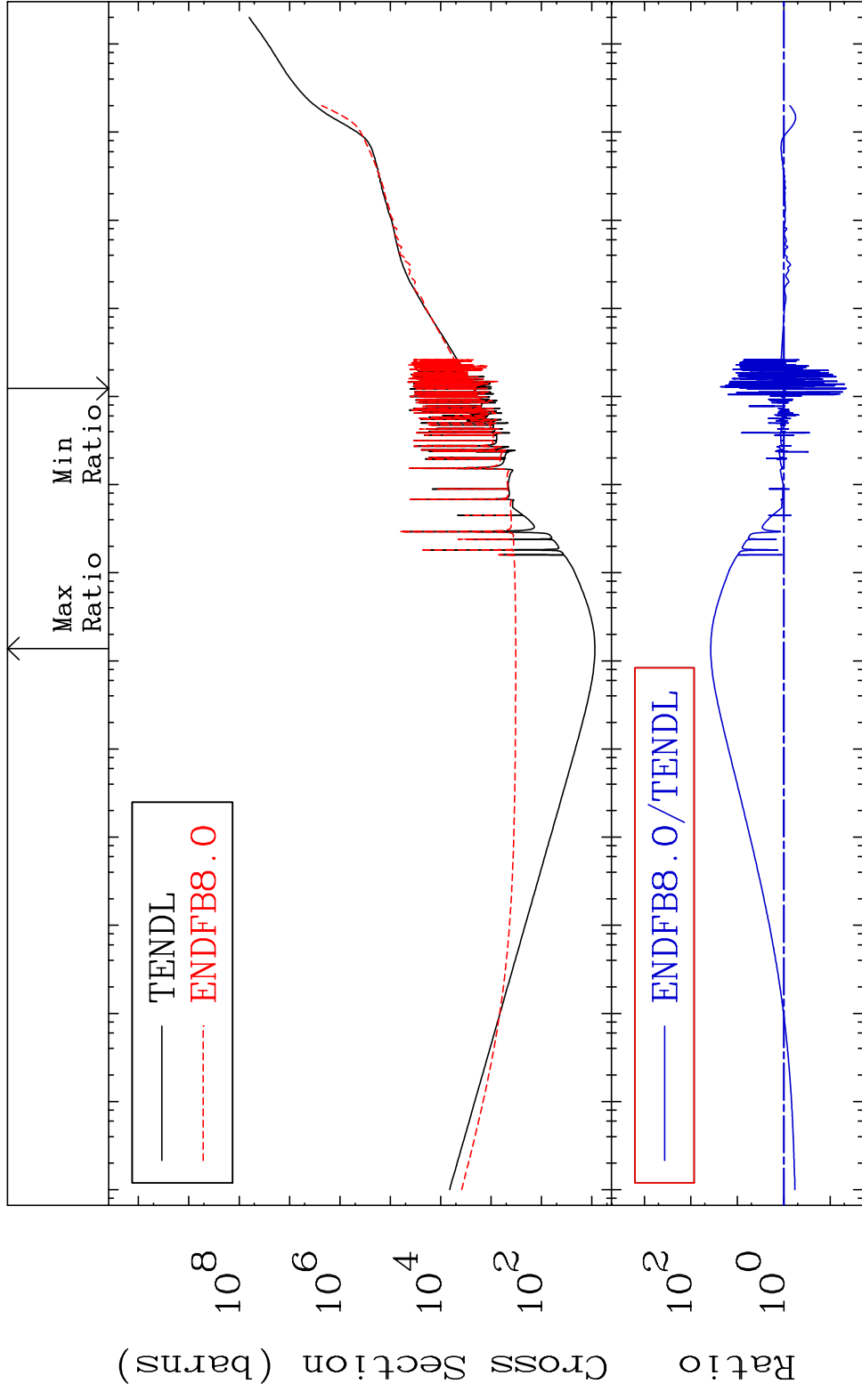
Incident Energy (eV) 40-Zr-91

MAT 4028 Total photon (eV-barns) 40-Zr-91
 Cross Section -99.99 To 9999. %

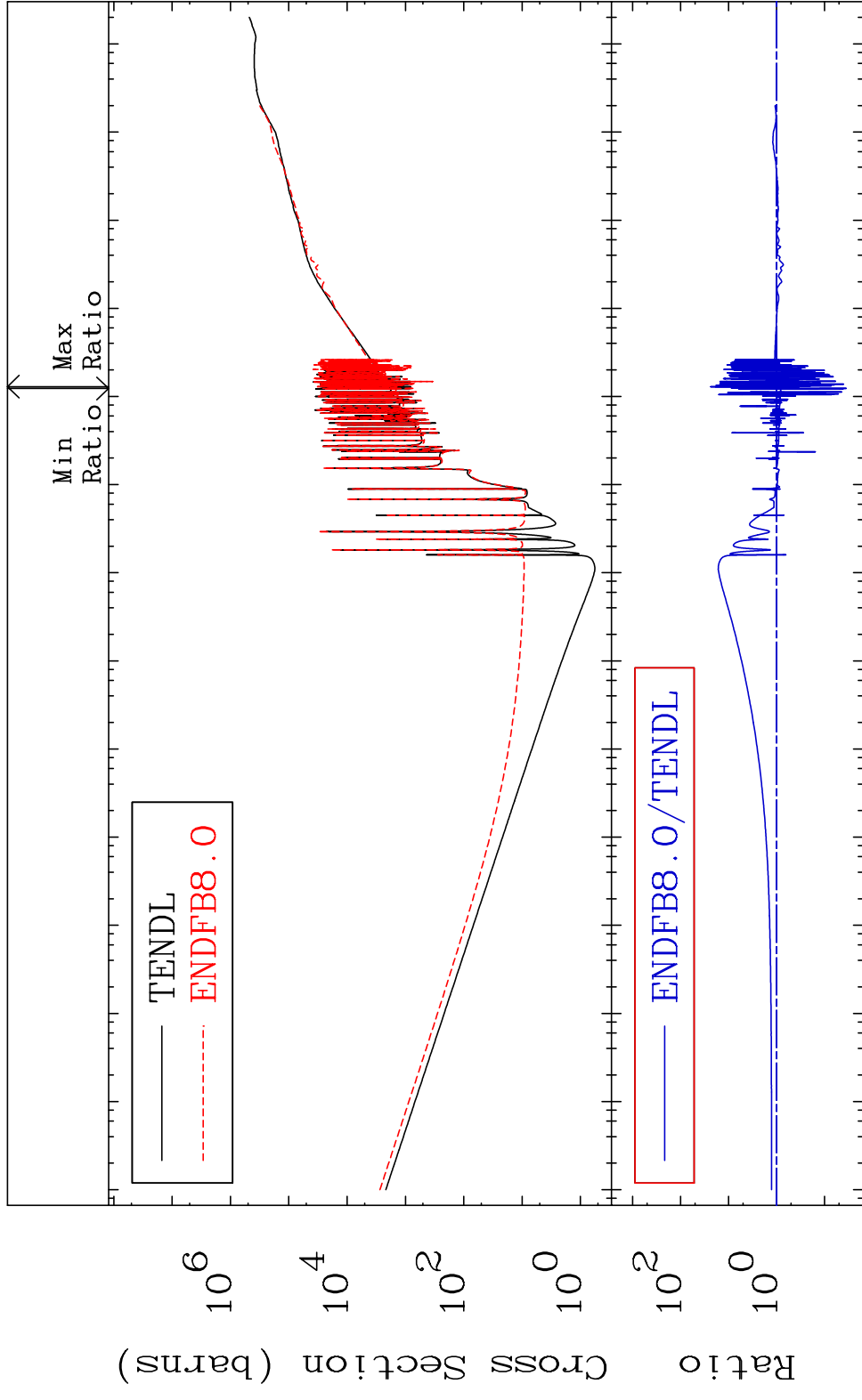


37 Incident Energy (eV) 40-Zr-91

MAT 4028 Total kinematic kerma (high limit) 40-Zr-91
 Cross Section -95.49 To 3641. %



MAT 4028 Dpa total (eV-barns) 40-Zr-91
 Cross Section -96.49 To 2252. %

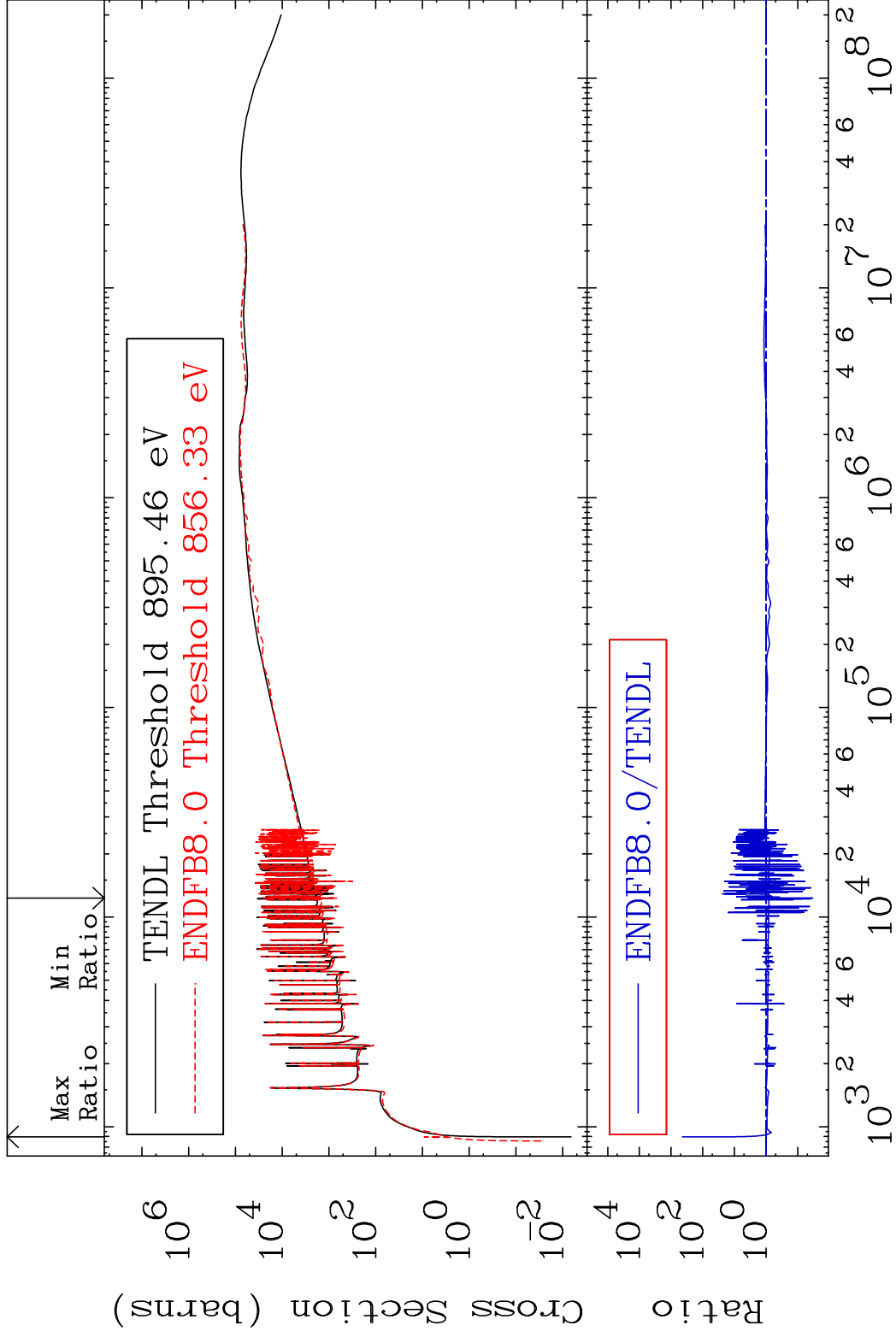


MAT 4028

Dpa elastic (mt2)

40-Zr-91

Cross Section -96.59 To 9999. %

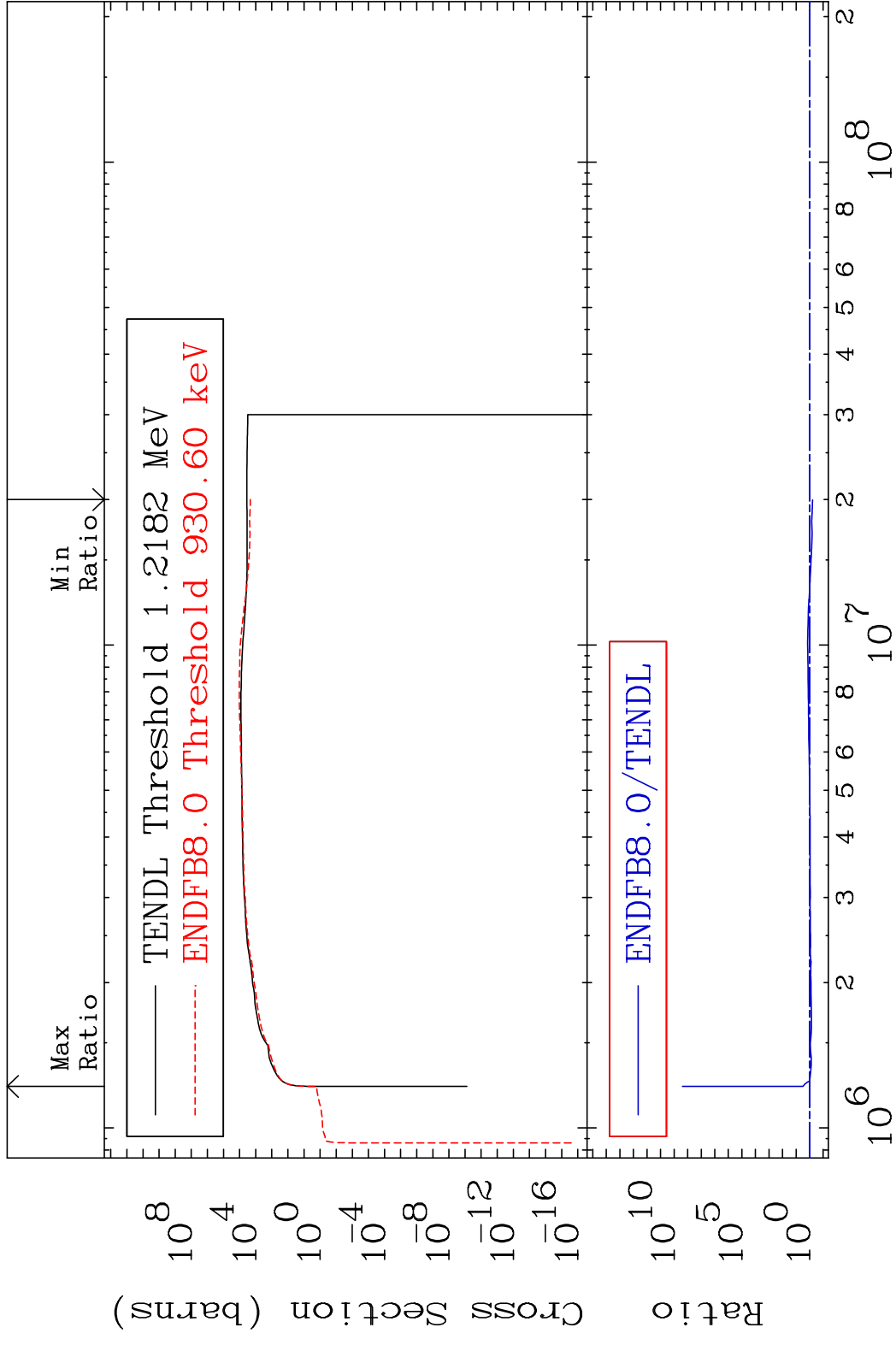


40

Incident Energy (eV)

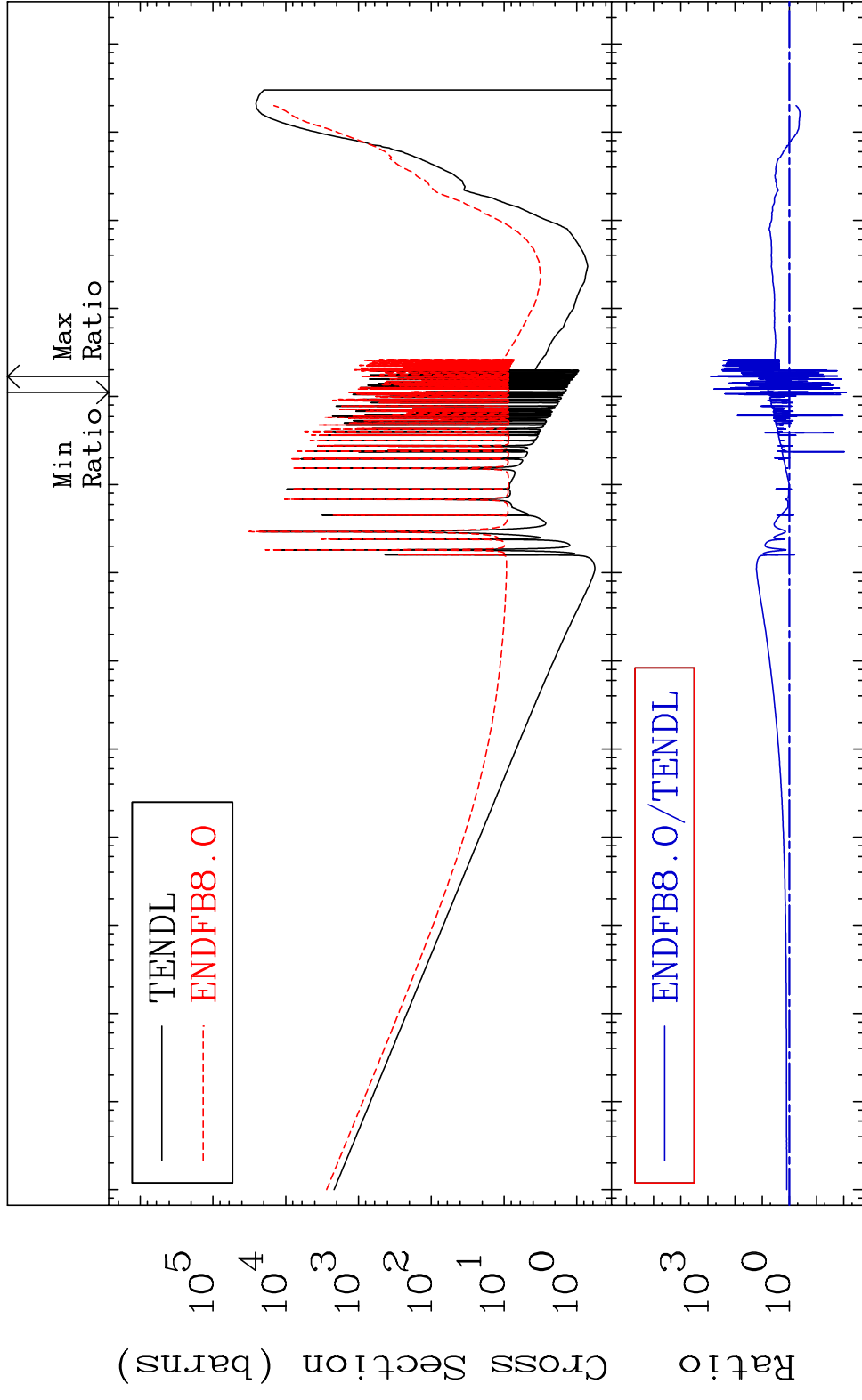
40-Zr-91

MAT 4028 Dpa inelastic (mt51-91) 40-Zr-91
 Cross Section -39.04 To 9999. %



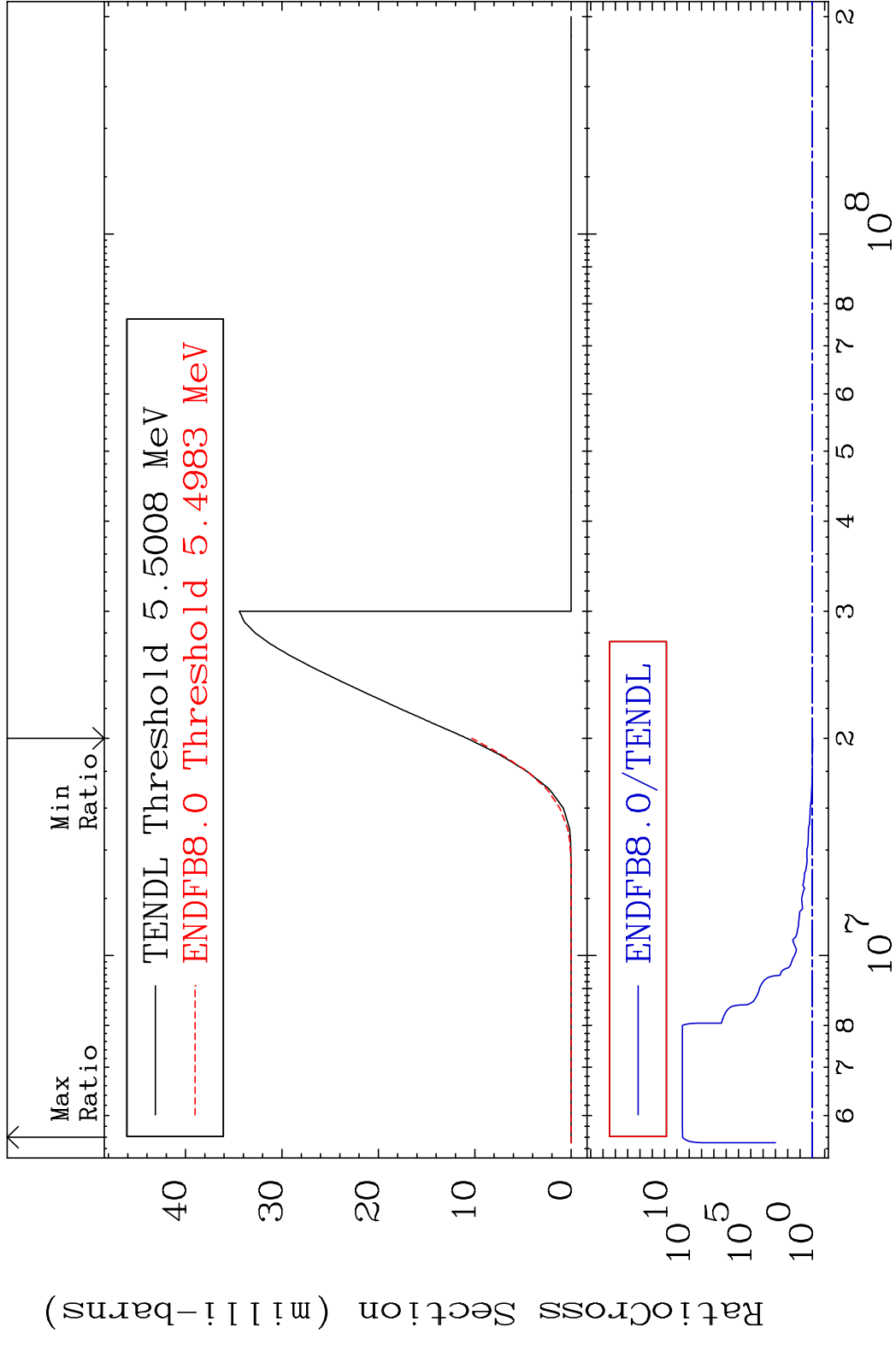
41 Incident Energy (eV) 40-Zr-91

MAT 4028 Dpa disappearance (mt102 -120) 40-Zr-91
 Cross Section -99.19 To 9999. %



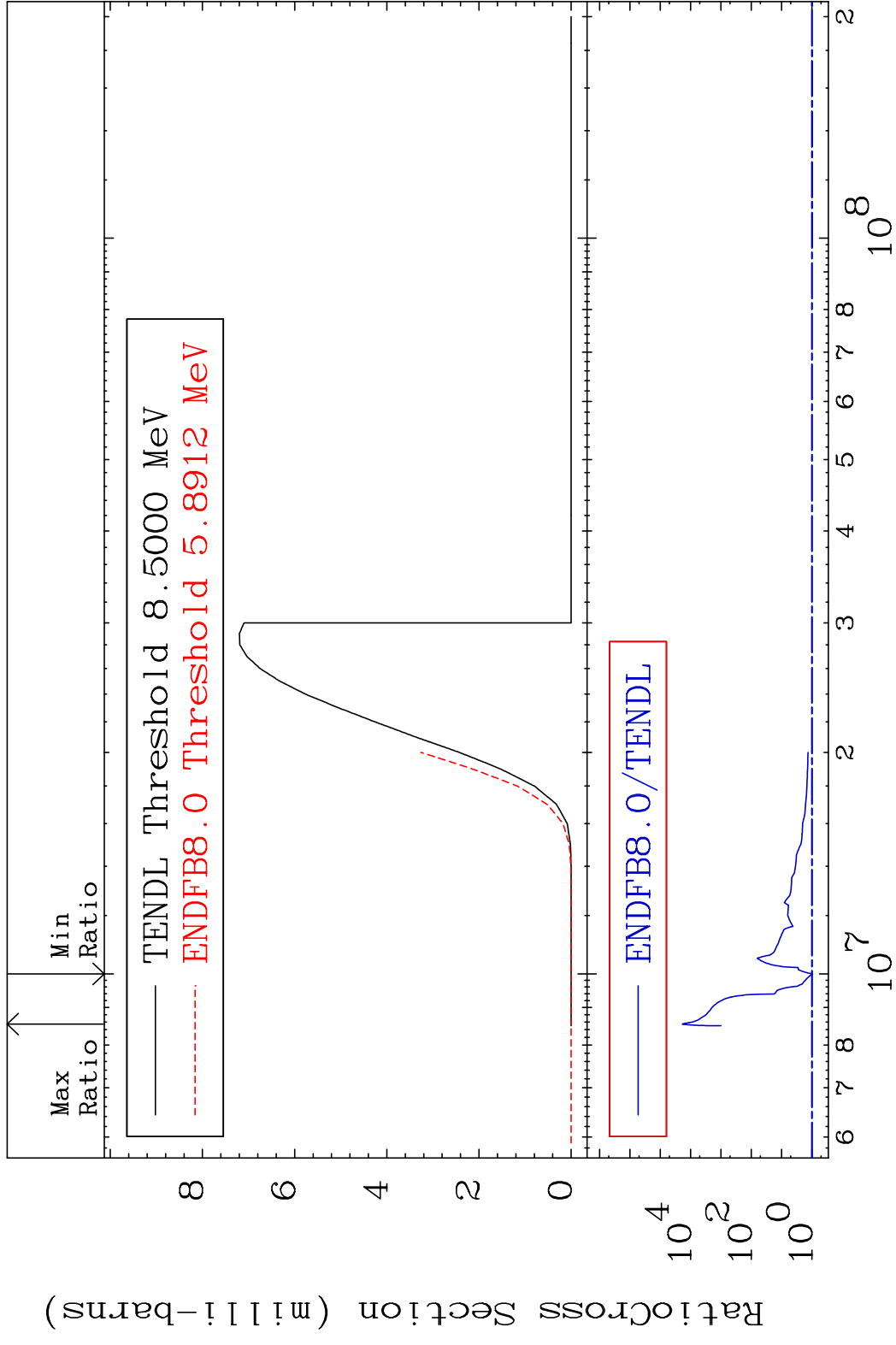
42 Incident Energy (eV) 40-Zr-91

MAT 4028 (n, n') α :38-Sr-87g 40-Zr-91
 Radionuclide Production Cross Section Ratio 9999. %



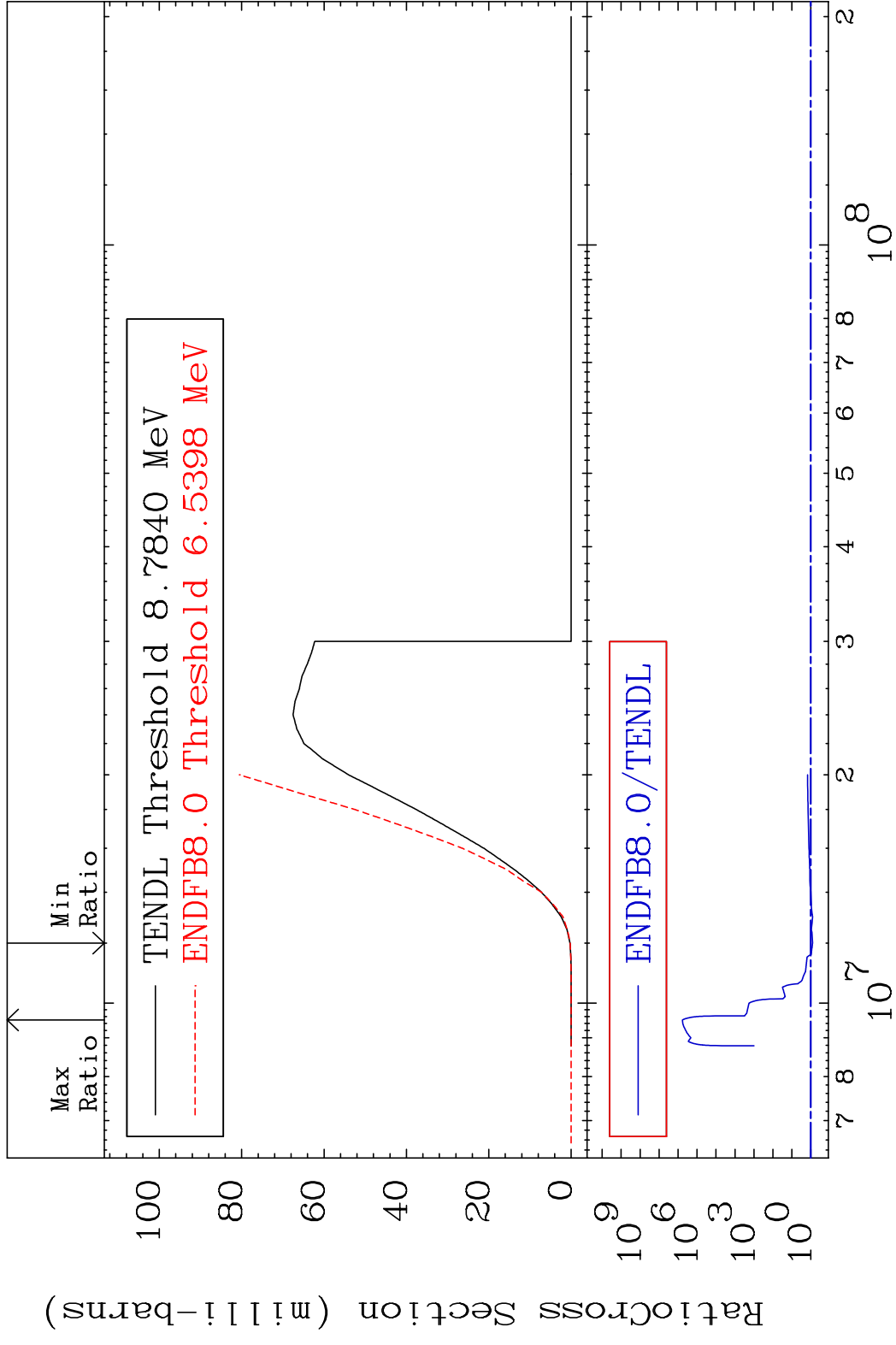
43 Incident Energy (eV) 40-Zr-91

MAT 4028 (n, n') α :38-Sr-87m1 40-Zr-91
 Radionuclide Production Cross Section 9999. %

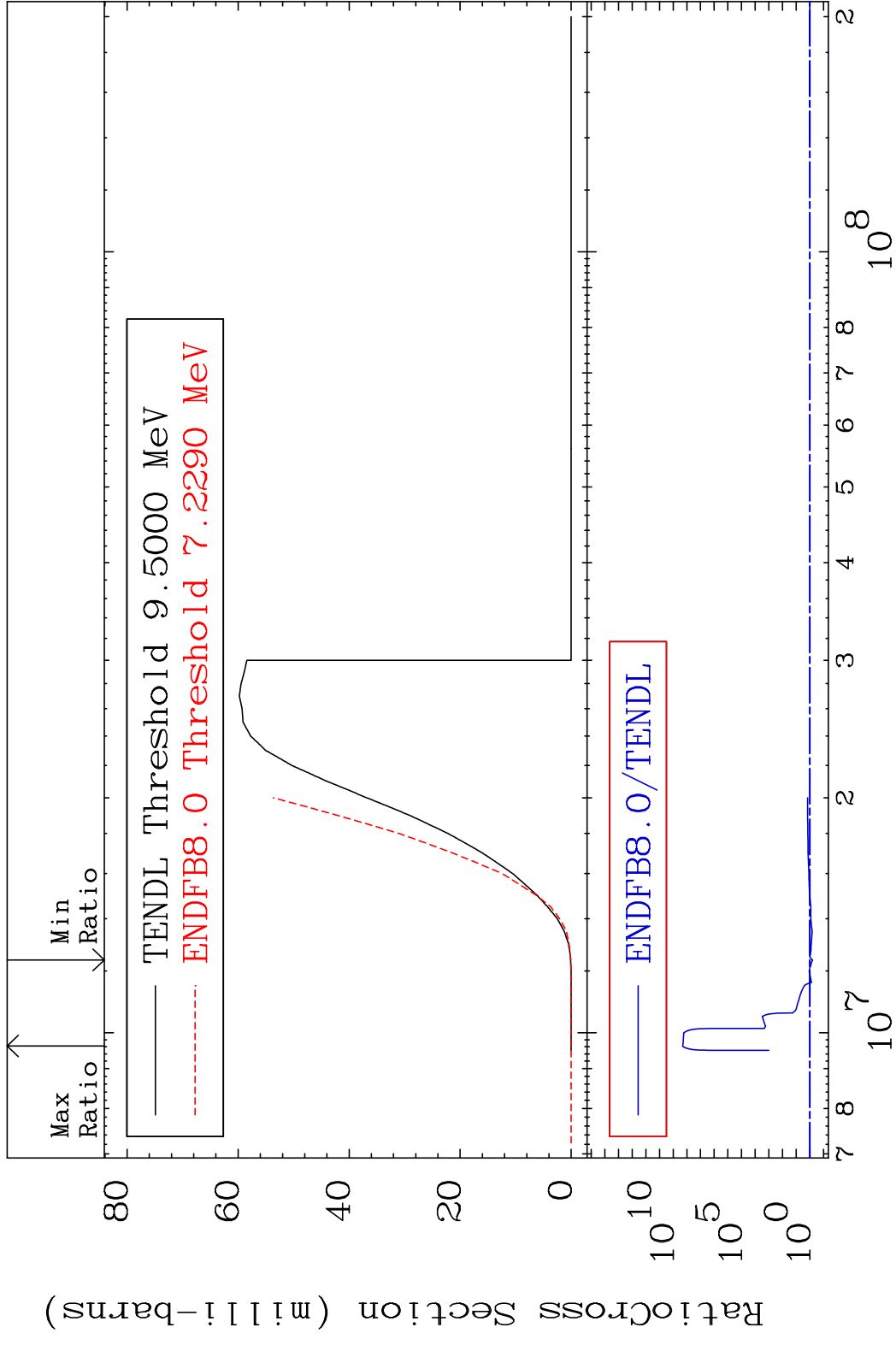


44 Incident Energy (eV) 40-Zr-91

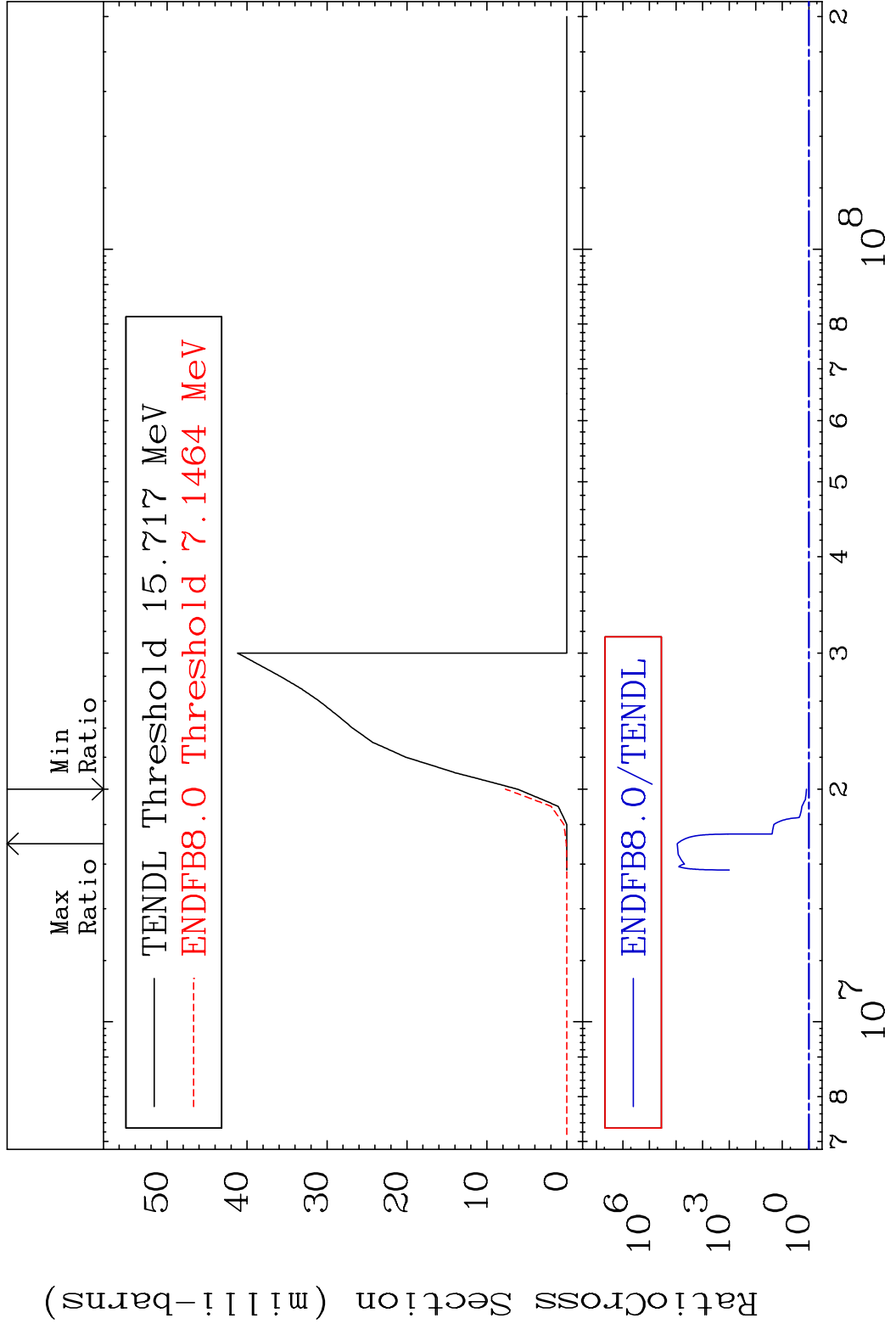
MAT 4028 (n, n') p:39-Y -90g 40-Zr-91
 Radionuclide Production Cross Section 18.761 d to 9999. %



MAT 4028 (n, n') p:39-Y -90m2 40-Zr-91
 Radionuclide Production Cross Section 9999. %



MAT 4028 (n,2n) p:39-Y -89g 40-Zr-91
 Radionuclide Production Cross Section 9999. %



47 Incident Energy (eV) 40-Zr-91

