

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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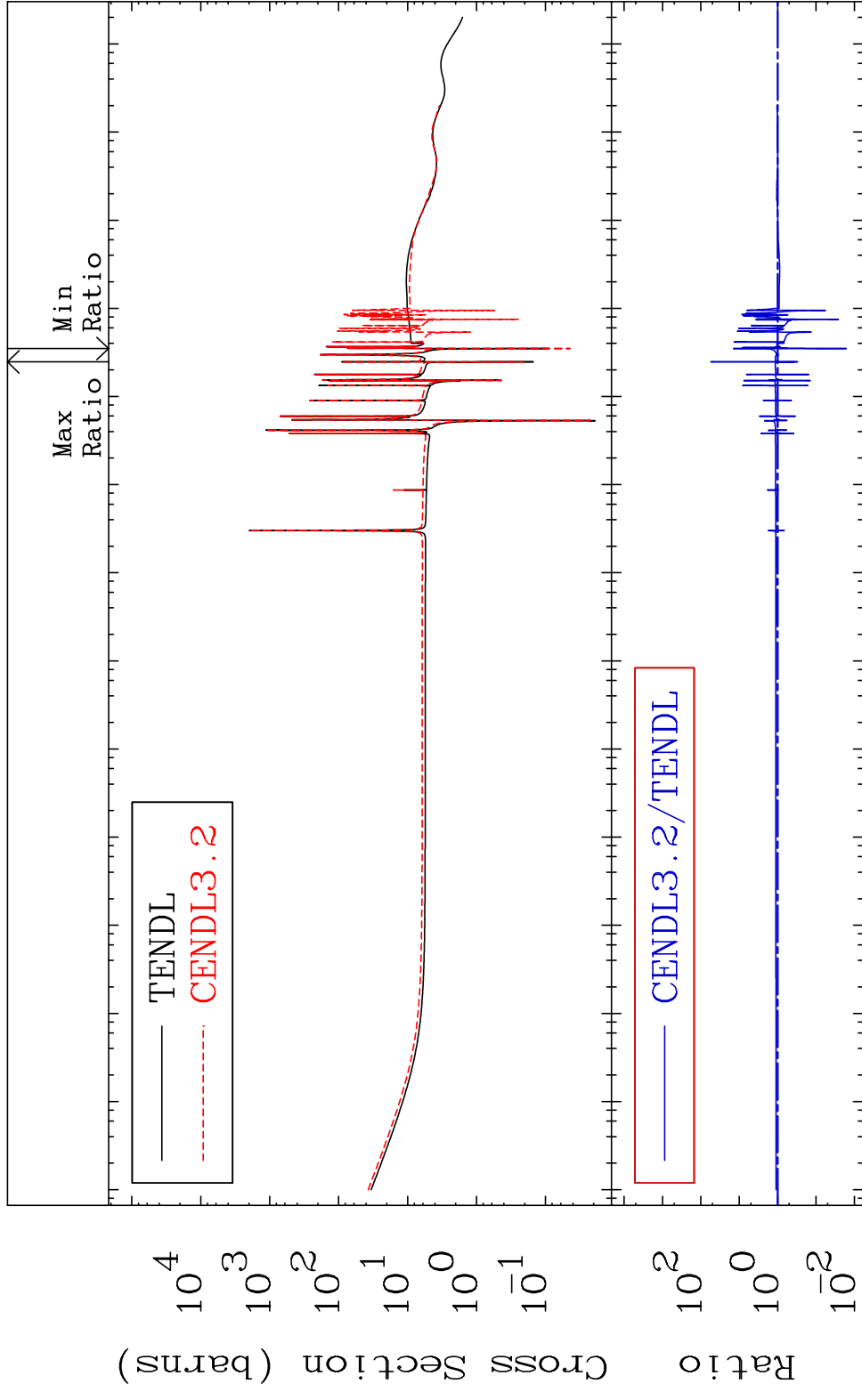
U.S.A.

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Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4043 Total 40-Zr-96
 Cross Section -98.38 To 5445. %



1 Incident Energy (eV) 40-Zr-96

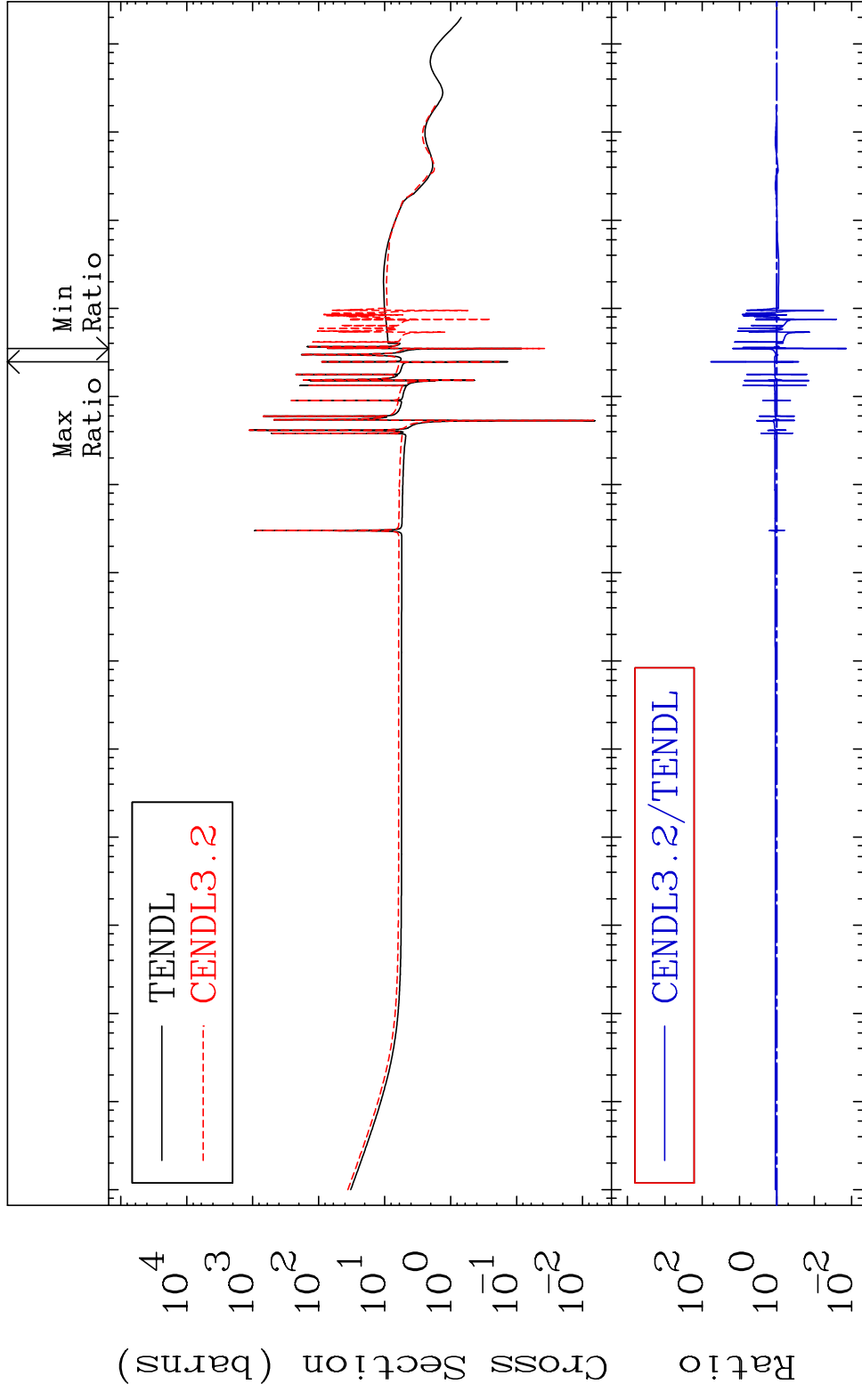
MAT 4043

Elastic

40-Zr-96

Cross Section

-98.62 To 5806. %

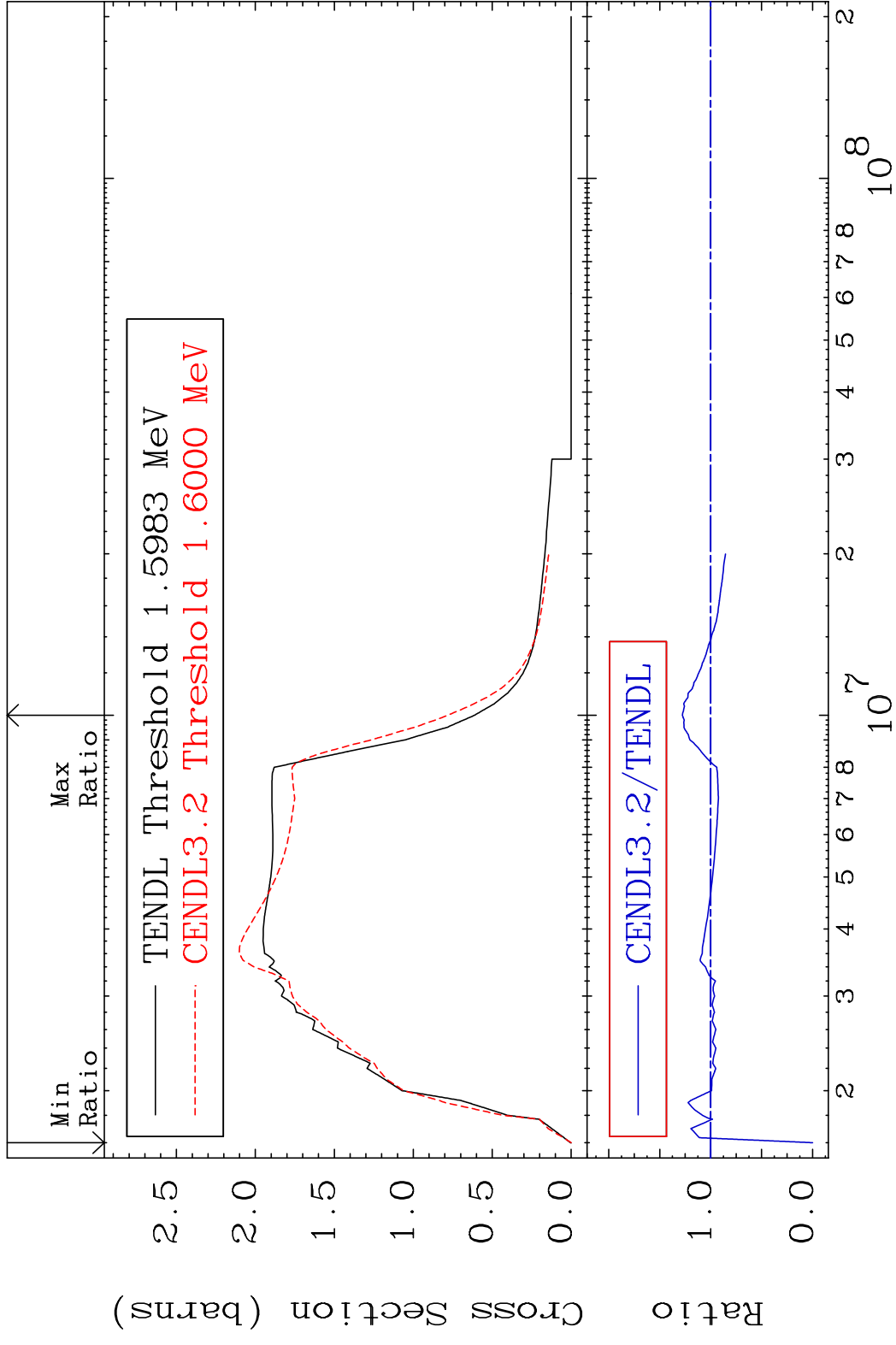


2

Incident Energy (eV)

40-Zr-96

MAT 4043 Inelastic 40-Zr-96
 Cross Section -100.0 To 27.78 %



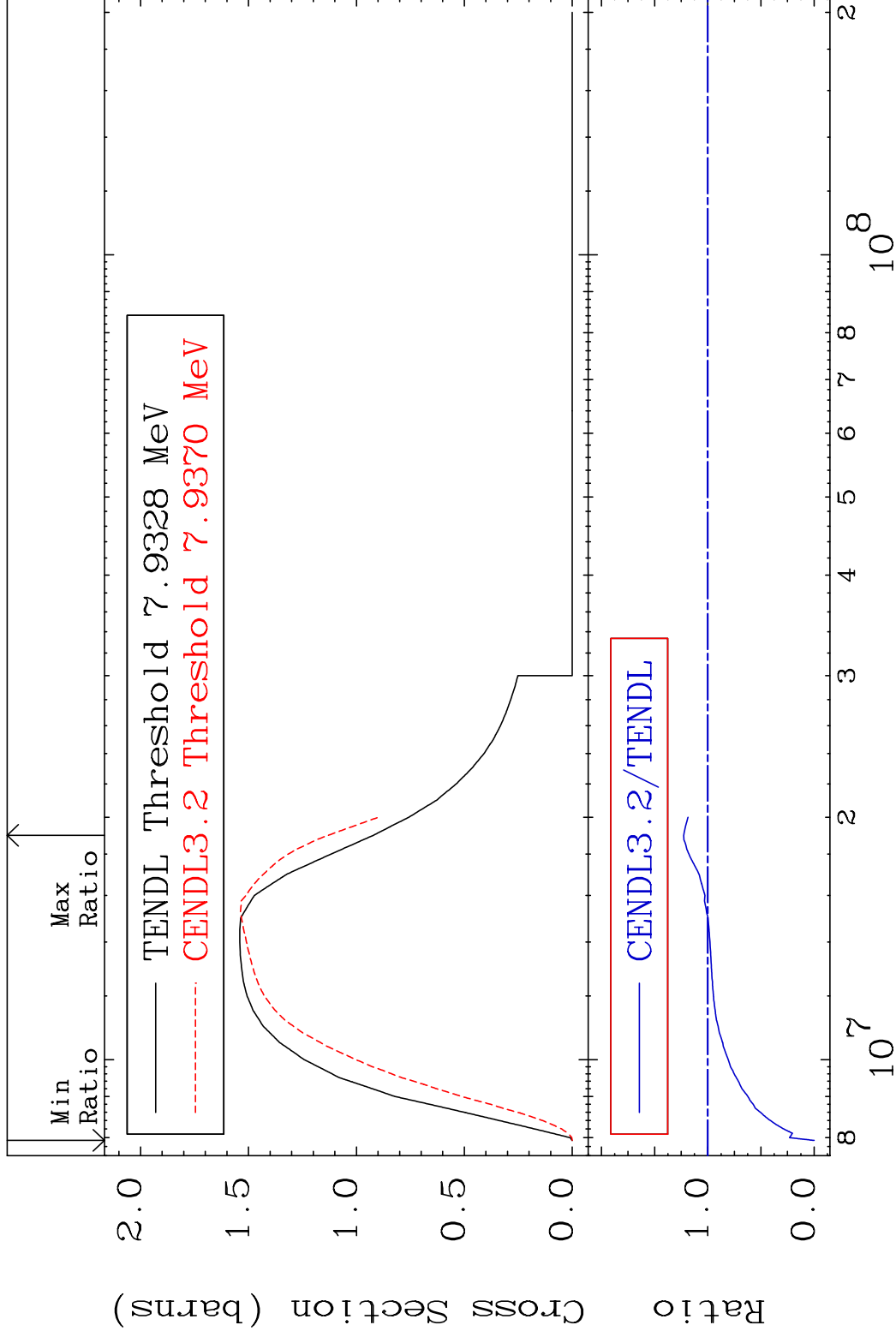
3 Incident Energy (eV) 40-Zr-96

MAT 4043

(n,2n)

40-Zr-96

Cross Section -100.0 To 22.70 %

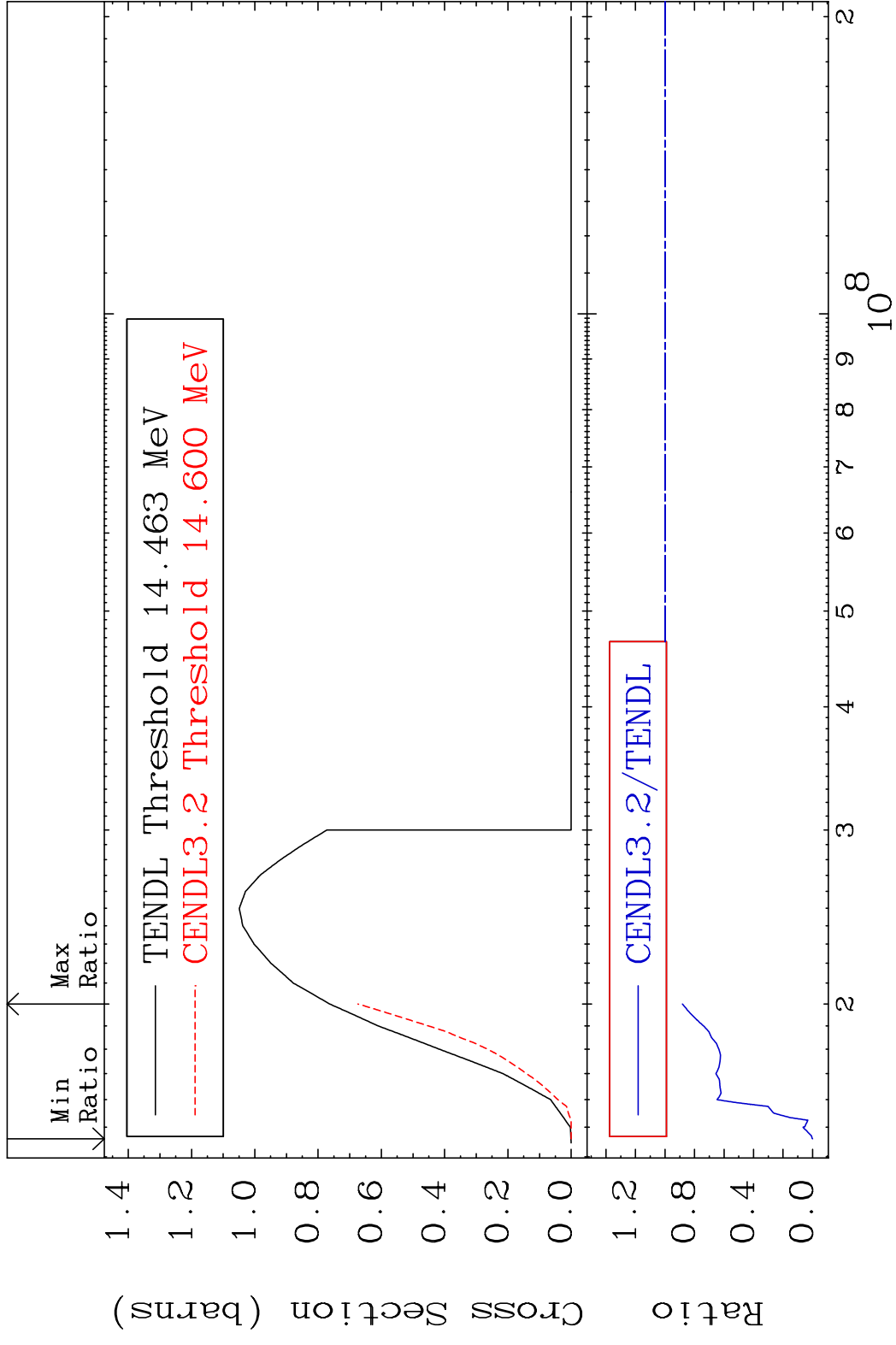


4

Incident Energy (eV)

40-Zr-96

MAT 4043 (n,3n) 40-Zr-96
 Cross Section -100.0 To -11.75%

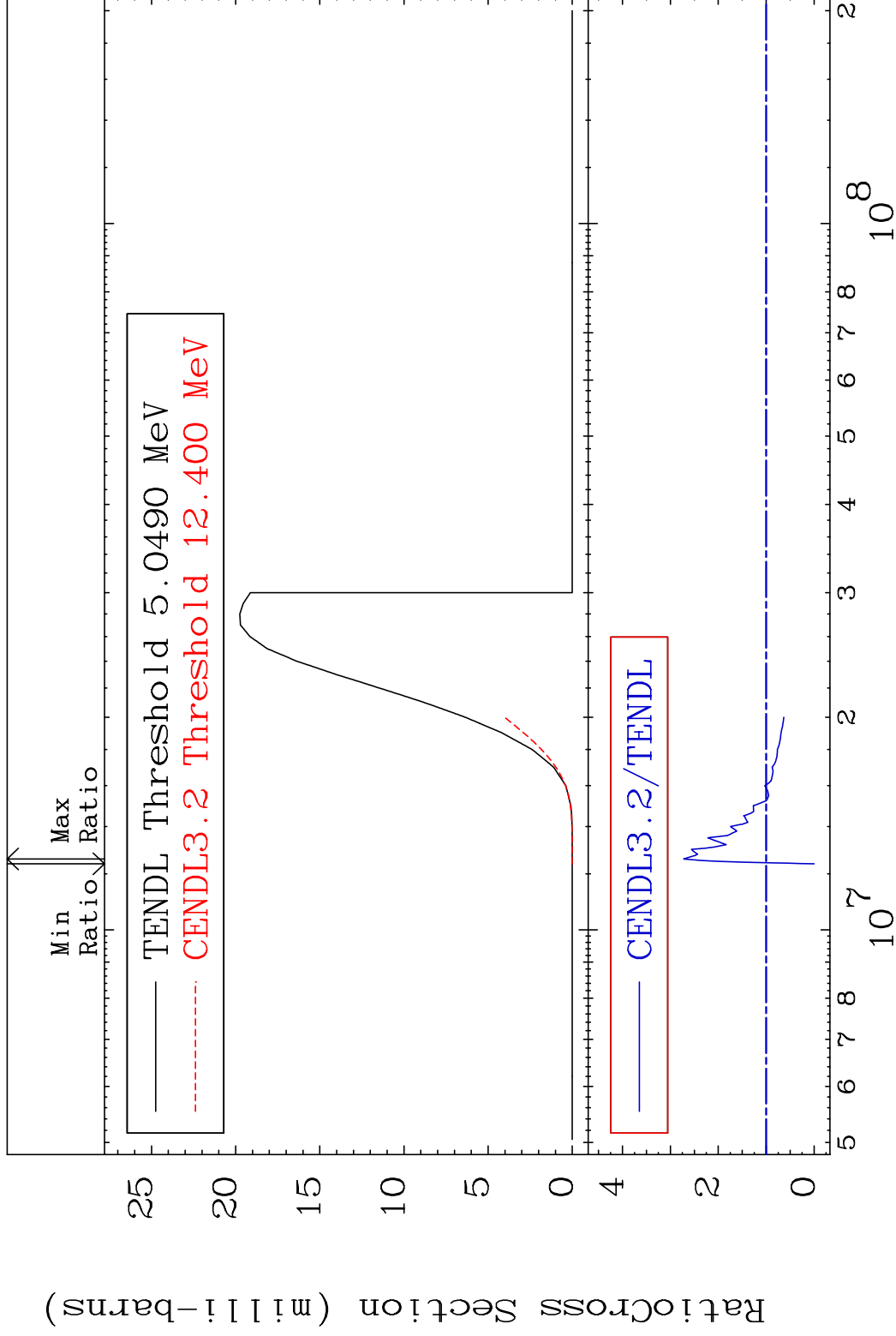


MAT 4043

(n, n') α

40-Zr-96

Cross Section -100.0 To 172.3 %



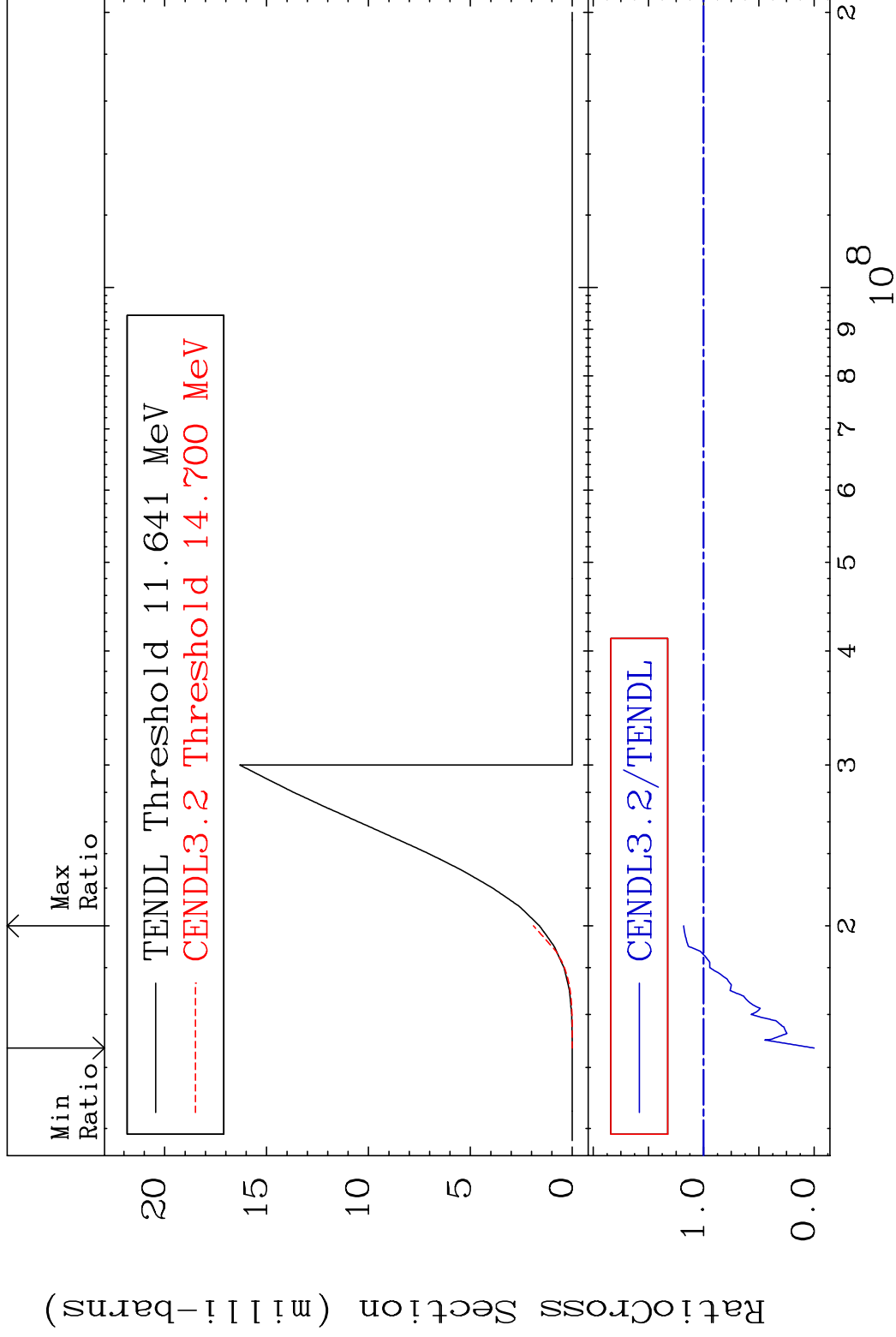
6

Incident Energy (eV)

40-Zr-96

MAT 4043

(n, n') p 40-Zr-96
Cross Section -100.0 To 18.12 %

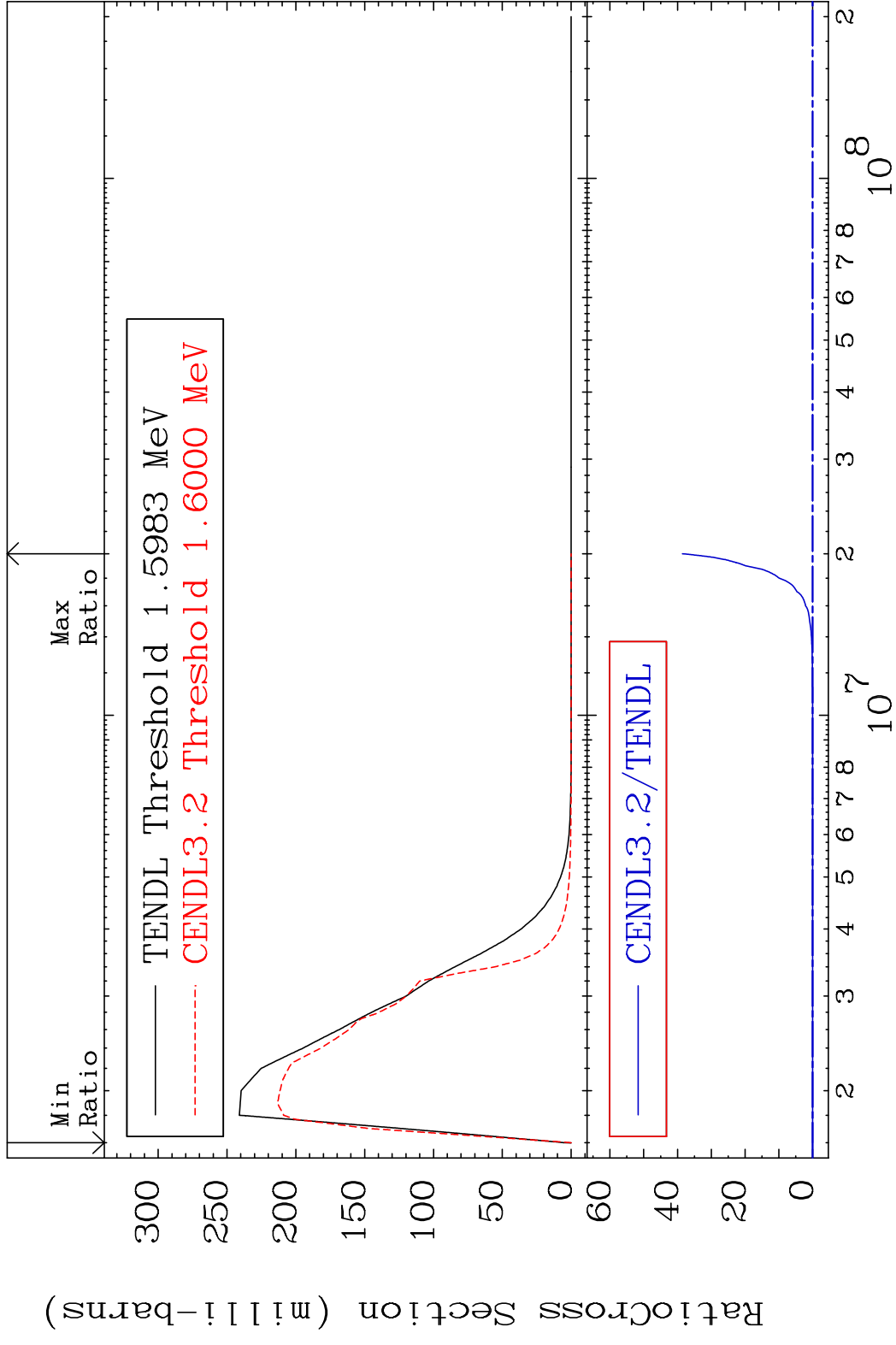


7

Incident Energy (eV)

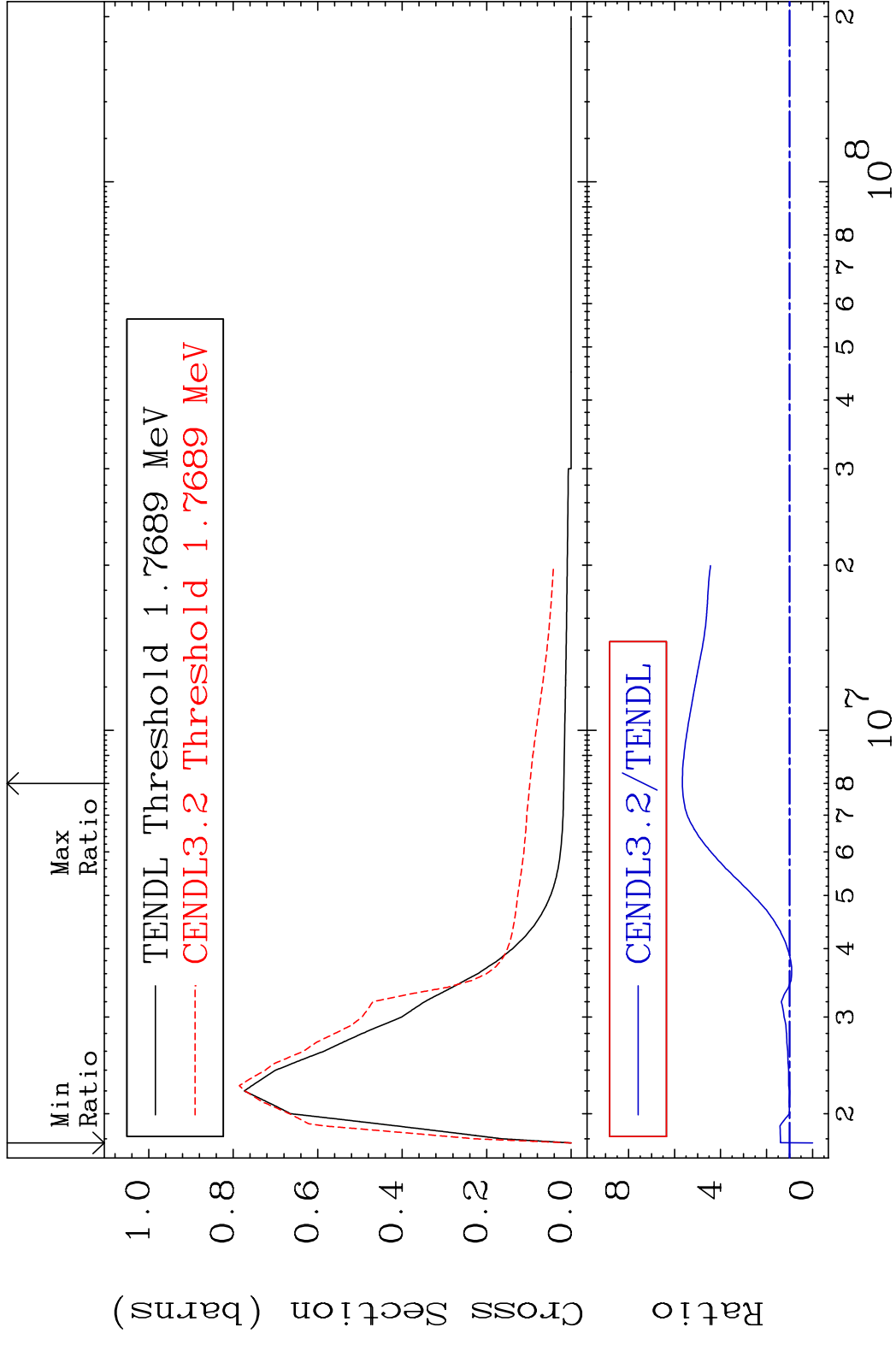
40-Zr-96

MAT 4043 MT= 51 (n, n') Level 40-Zr-96
 Cross Section -100.0 To 9999. %

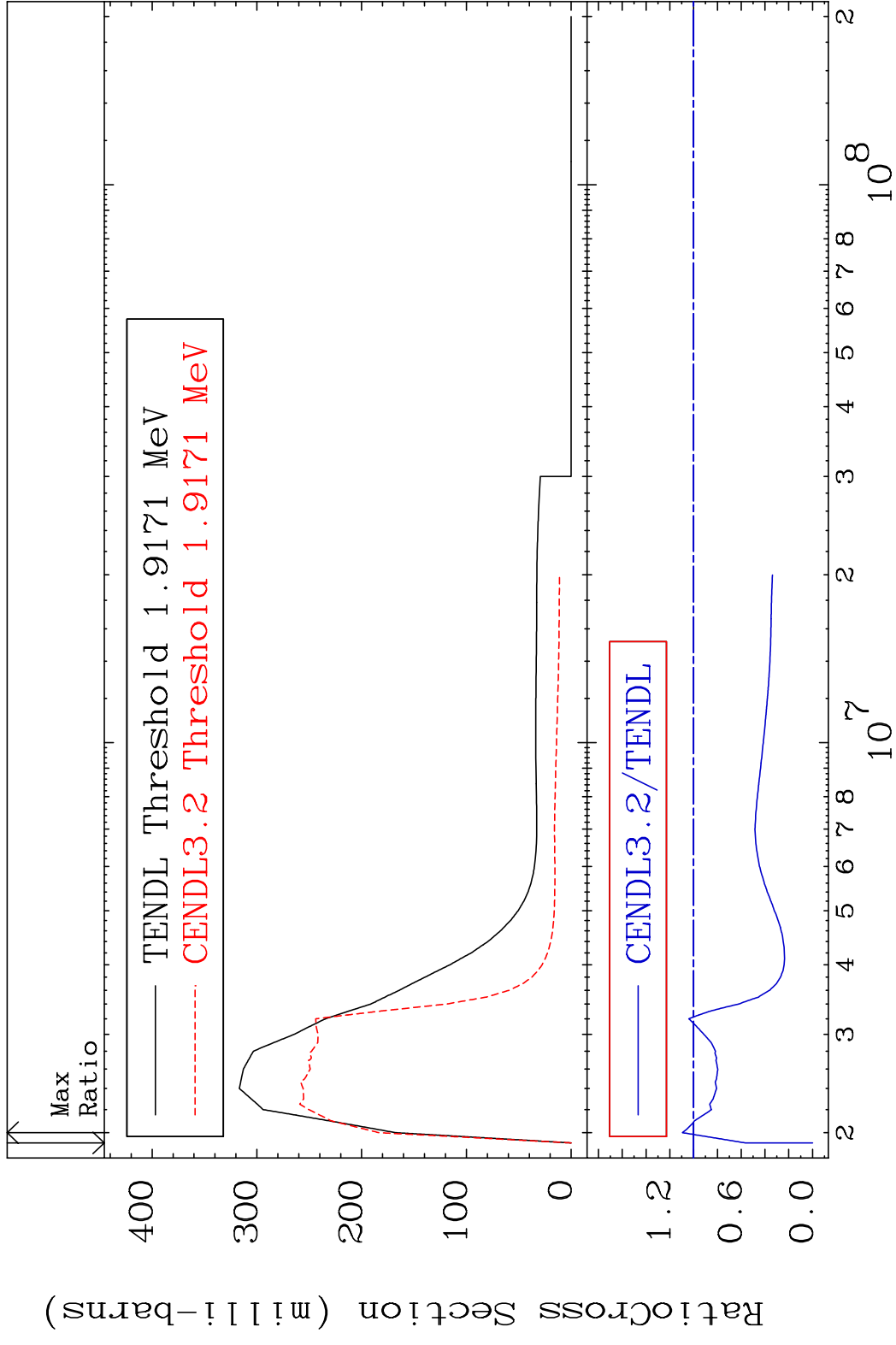


8 Incident Energy (eV) 40-Zr-96

MAT 4043 MT= 52 (n, n') Level 40-Zr-96
 Cross Section -100.0 To 466.2 %

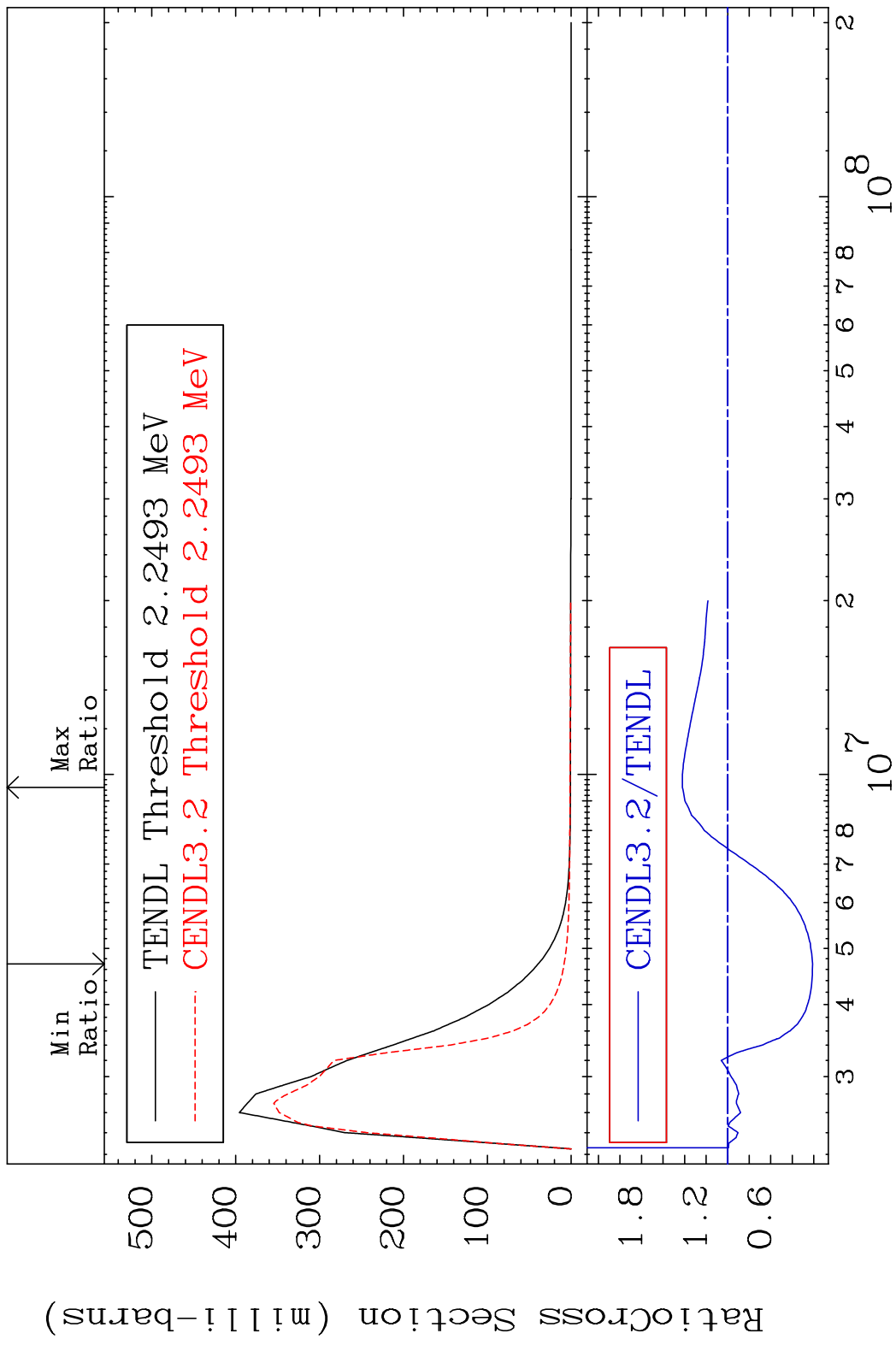


MAT 4043 MT= 53 (n, n') Level 40-Zr-96
 Cross Section -100.0 To 9.464 %

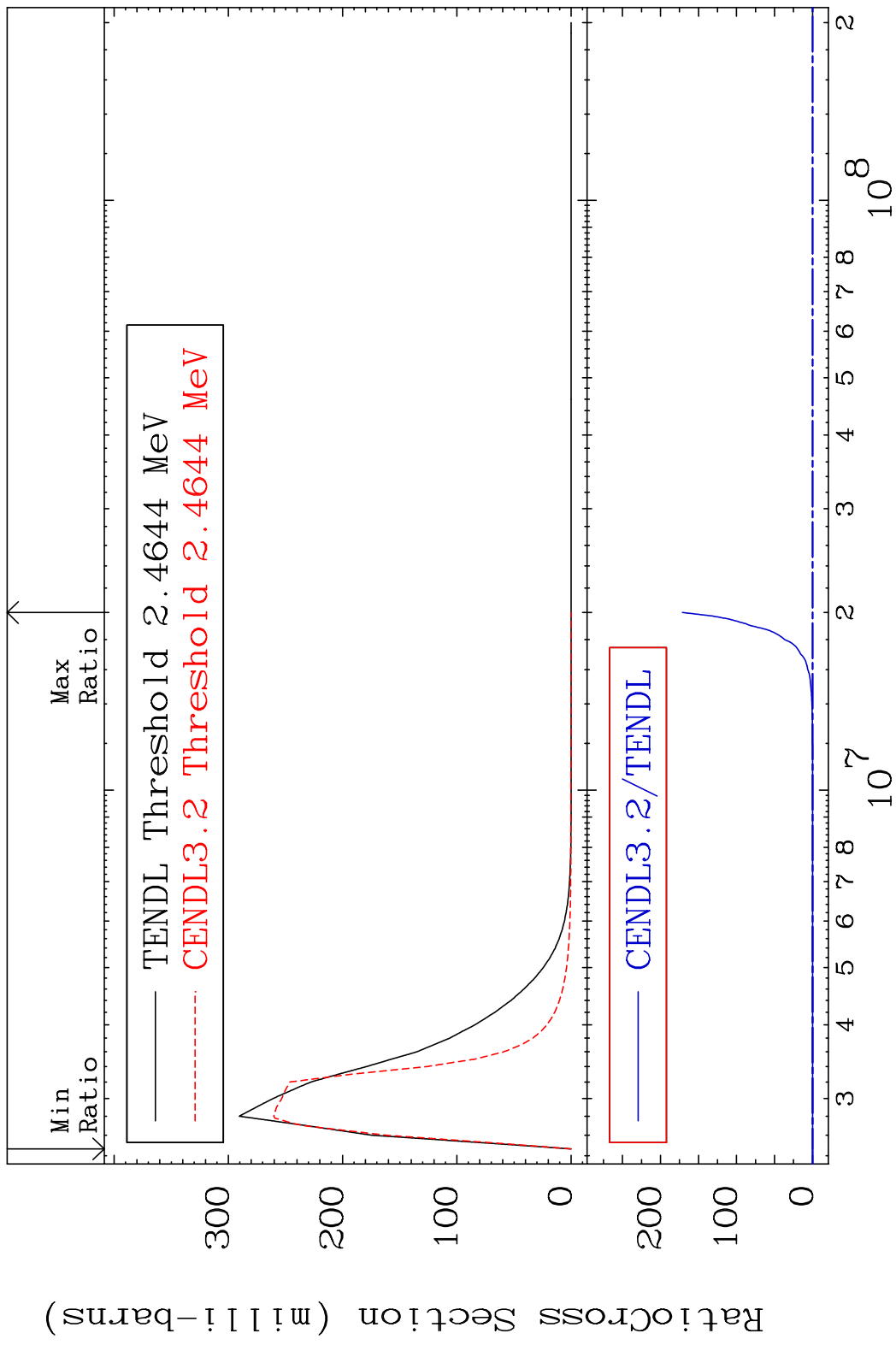


10 Incident Energy (eV) 40-Zr-96

MAT 4043 MT= 54 (n,n') Level 40-Zr-96
 Cross Section -78.80 To 42.06 %



MAT 4043 MT= 55 (n, n') Level 40-Zr-96
 Cross Section -100.0 To 9999. %



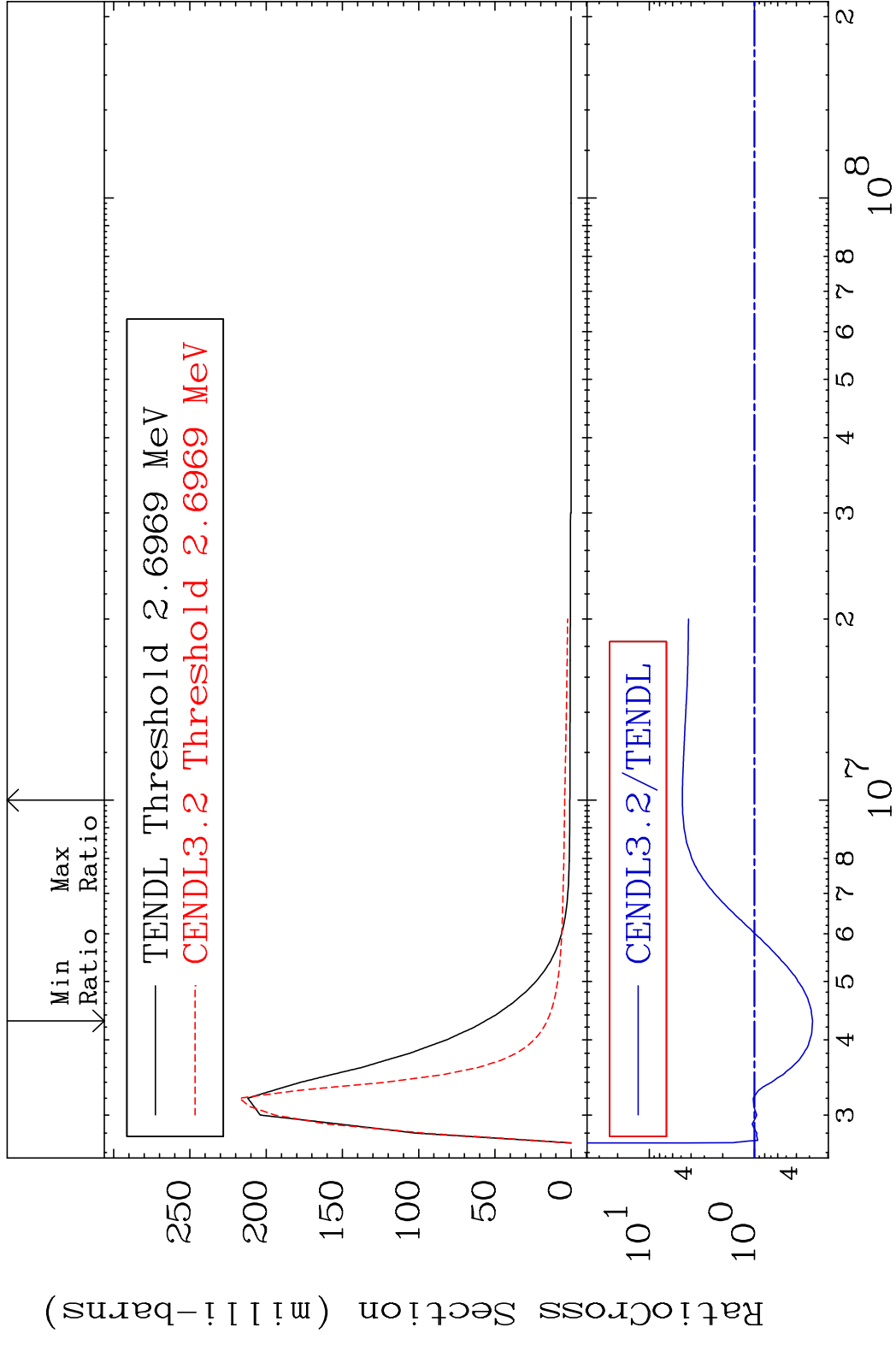
12 40-Zr-96

MAT 4043

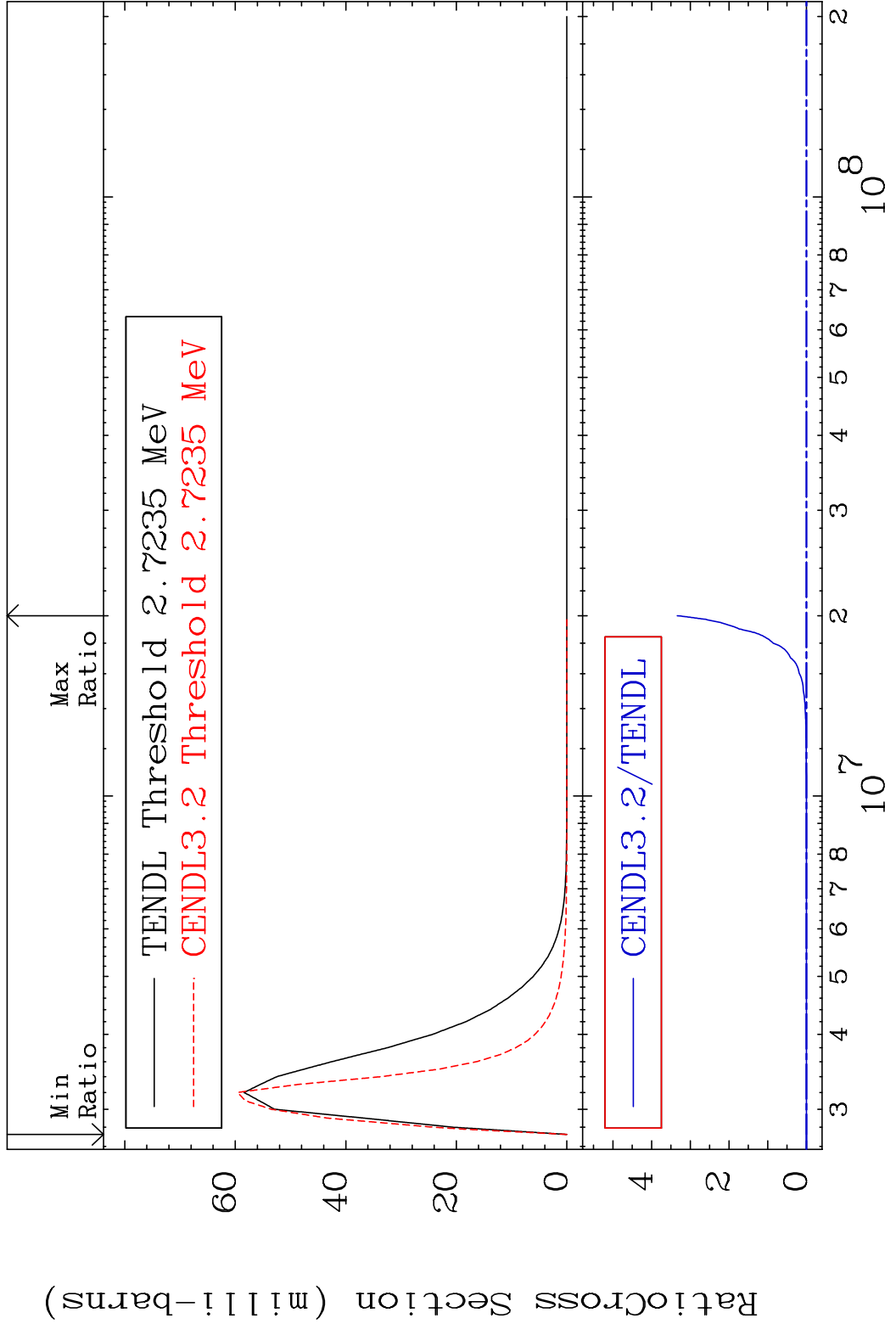
MT= 56 (n,n') Level

40-Zr-96

Cross Section -71.97 To 385.1 %

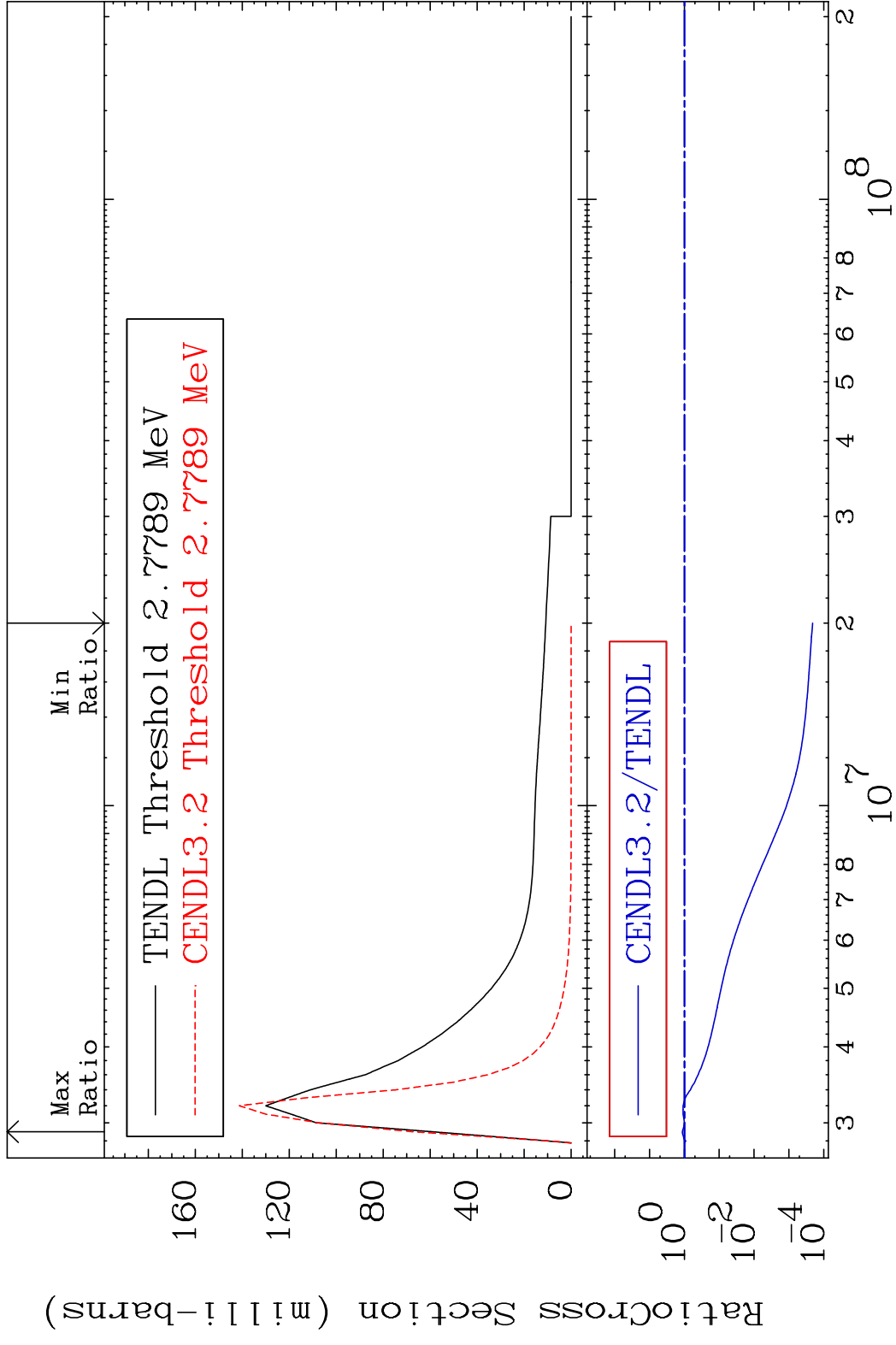


MAT 4043 MT= 57 (n, n') Level 40-Zr-96
 Cross Section -100.0 To 9999. %



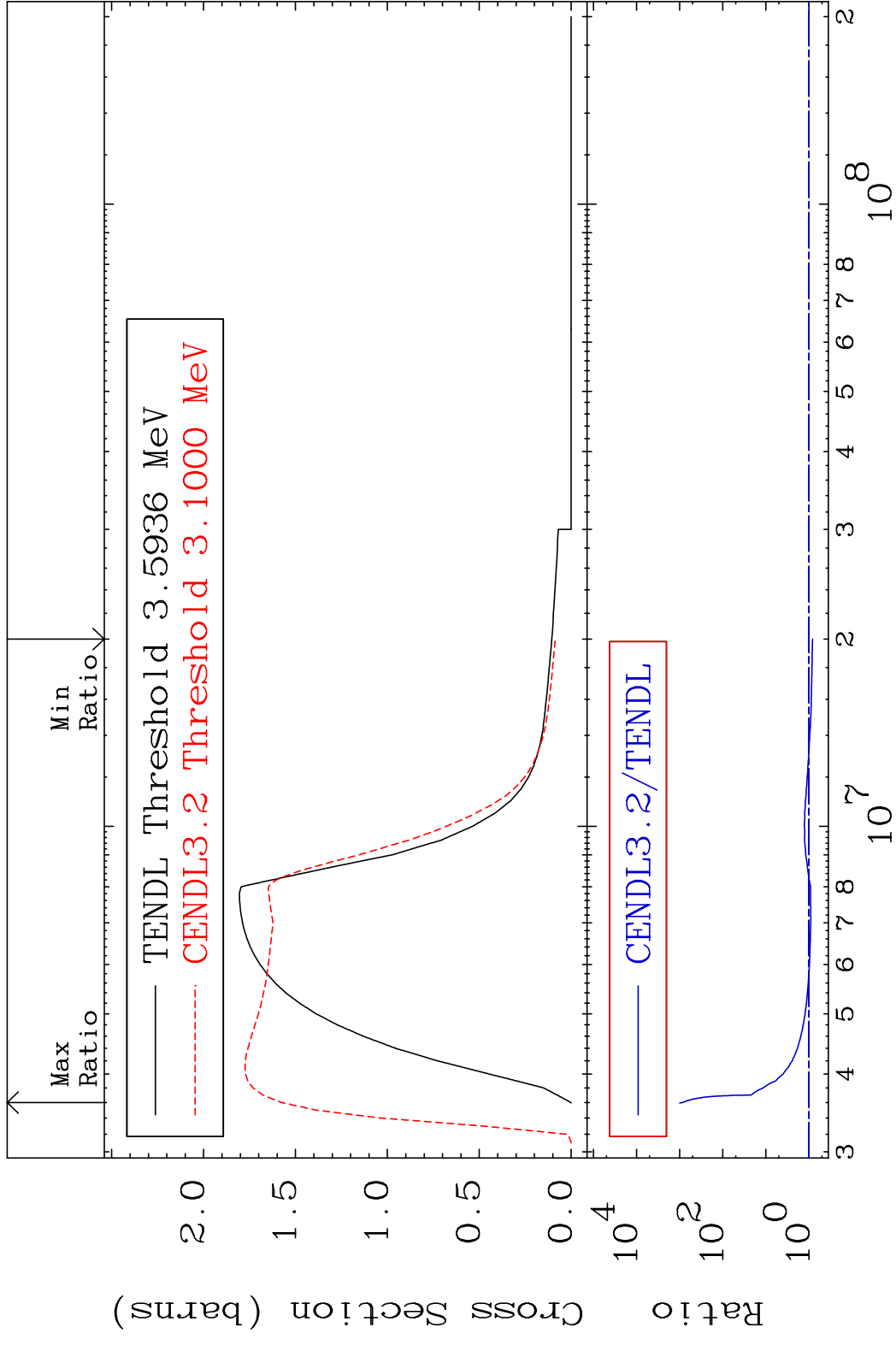
14 Incident Energy (eV) 40-Zr-96

MAT 4043 MT= 58 (n,n') Level 40-Zr-96
 Cross Section -99.98 To 14.24 %



15 Incident Energy (eV) 40-Zr-96

MAT 4043 (n,n') Continuum 40-Zr-96
 Cross Section -17.84 To 9999. %

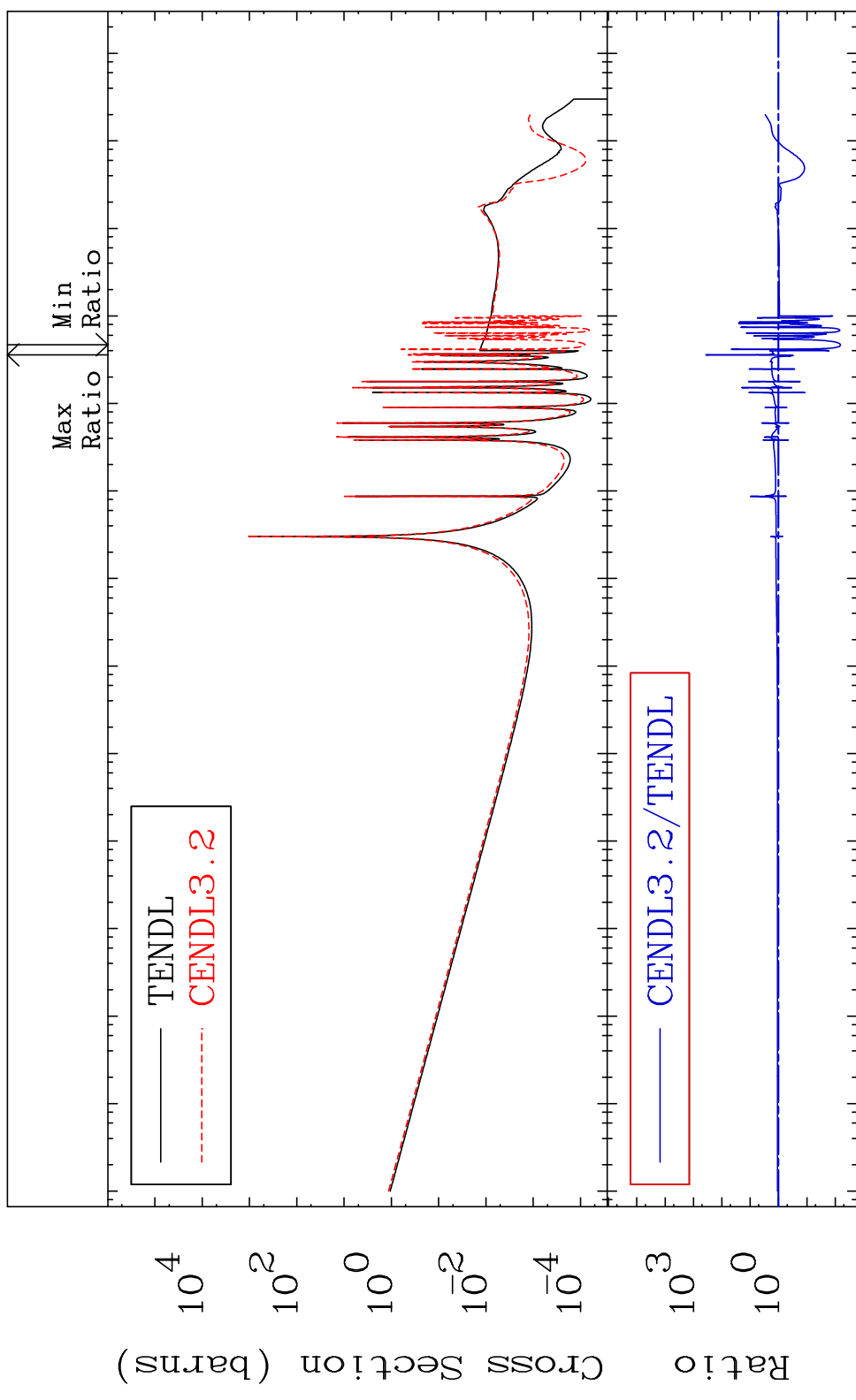


MAT 4043

(n, γ)

40-Zr-96

Cross Section -99.34 To 9999. %



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

17

Incident Energy (eV)

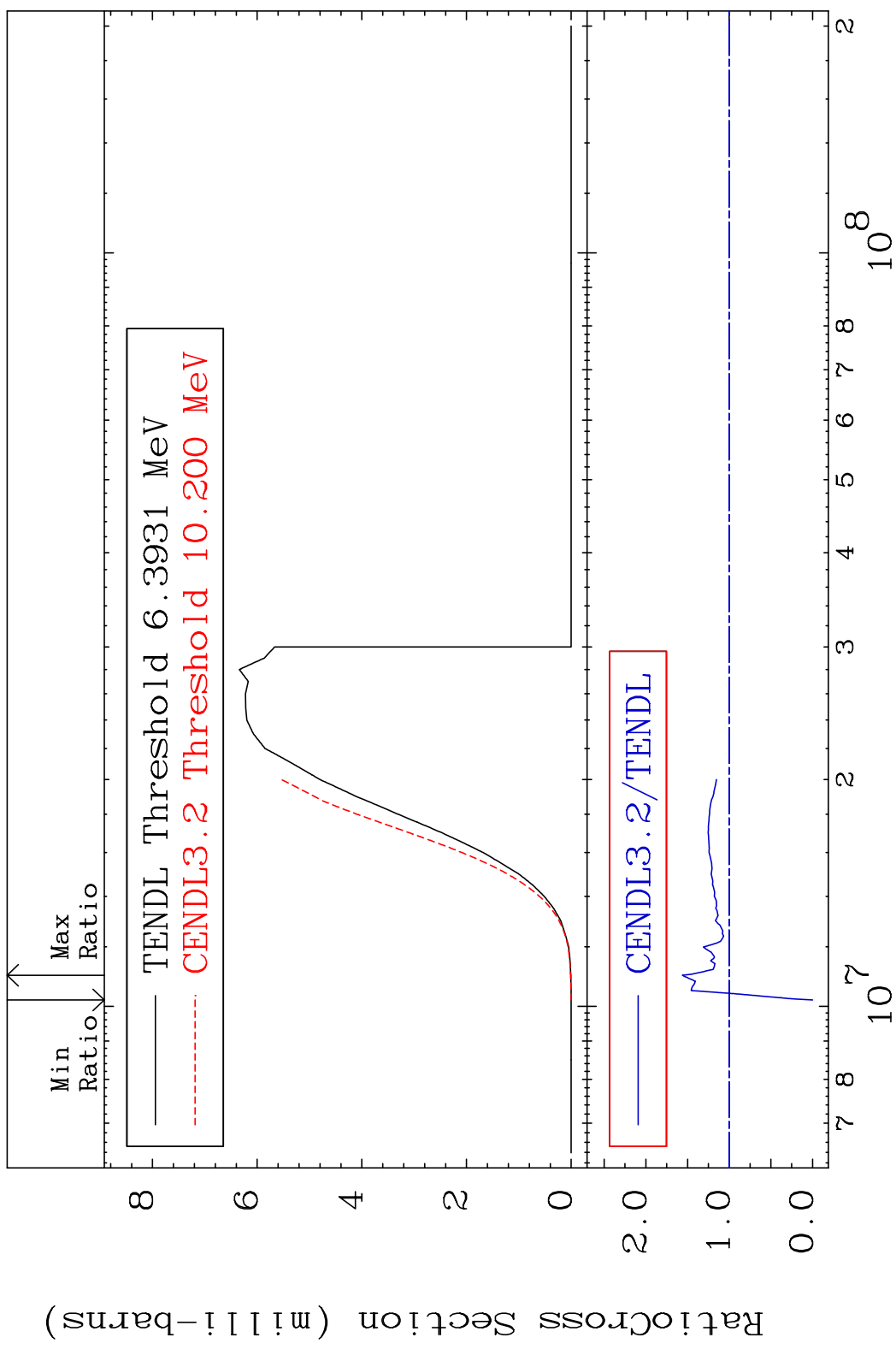
40-Zr-96

MAT 4043

(n,p)

40-Zr-96

Cross Section -100.0 To 56.20 %



18

Incident Energy (eV)

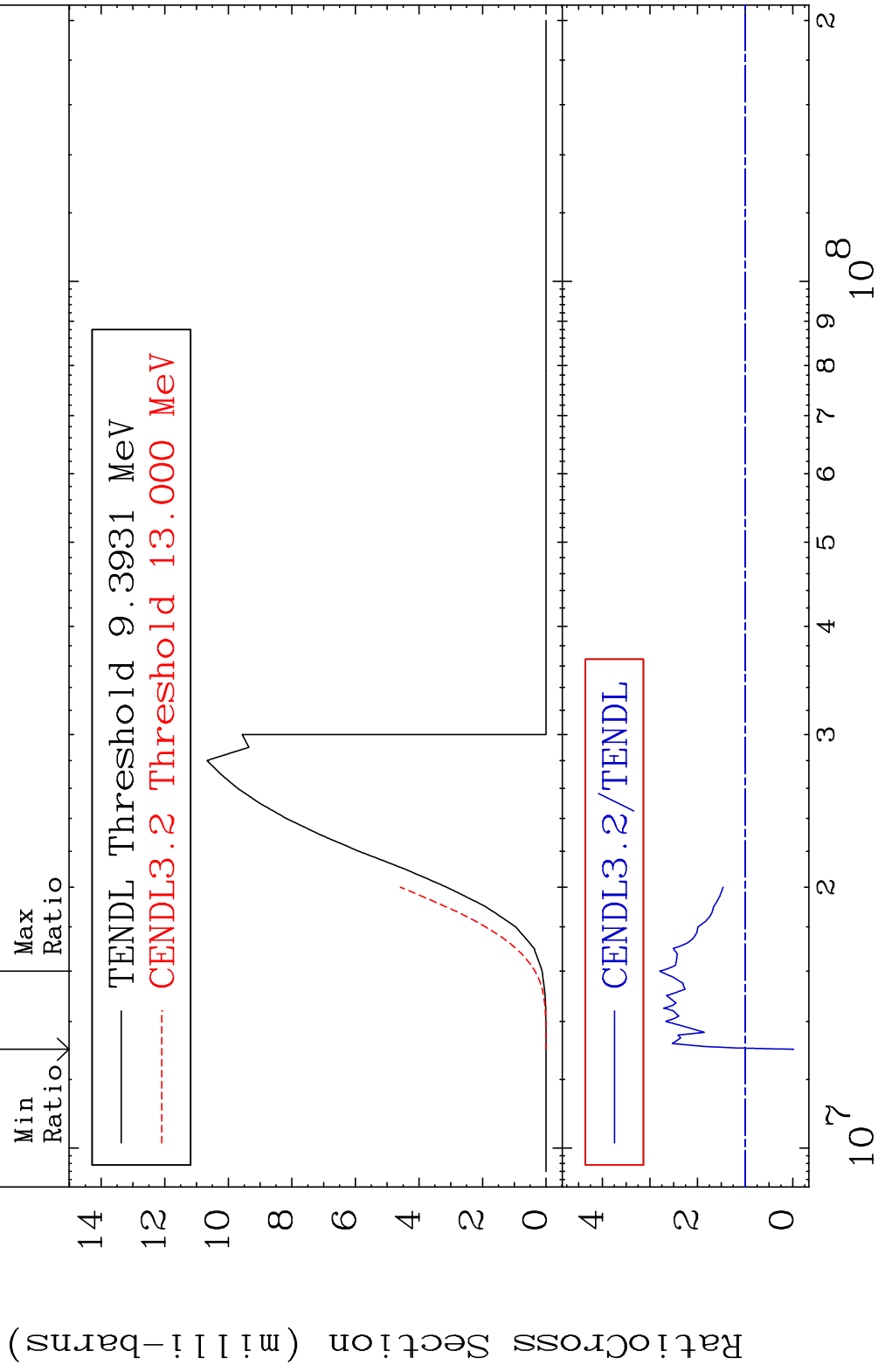
40-Zr-96

MAT 4043

(n, d)

40-Zr-96

Cross Section -100.0 To 179.5 %



19

Incident Energy (eV)

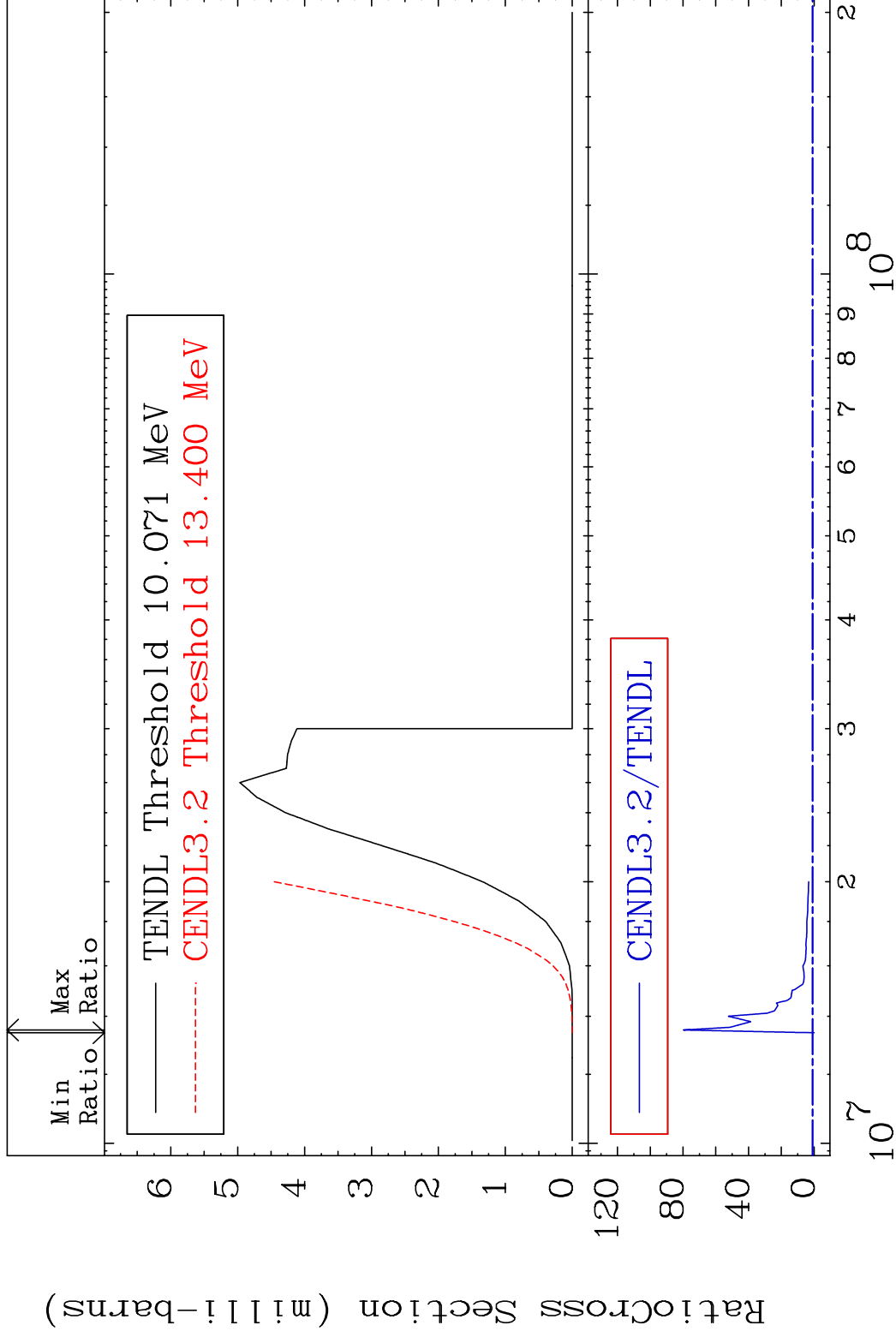
40-Zr-96

MAT 4043

(n, t)

40-Zr-96

Cross Section -100.0 To 7861. %



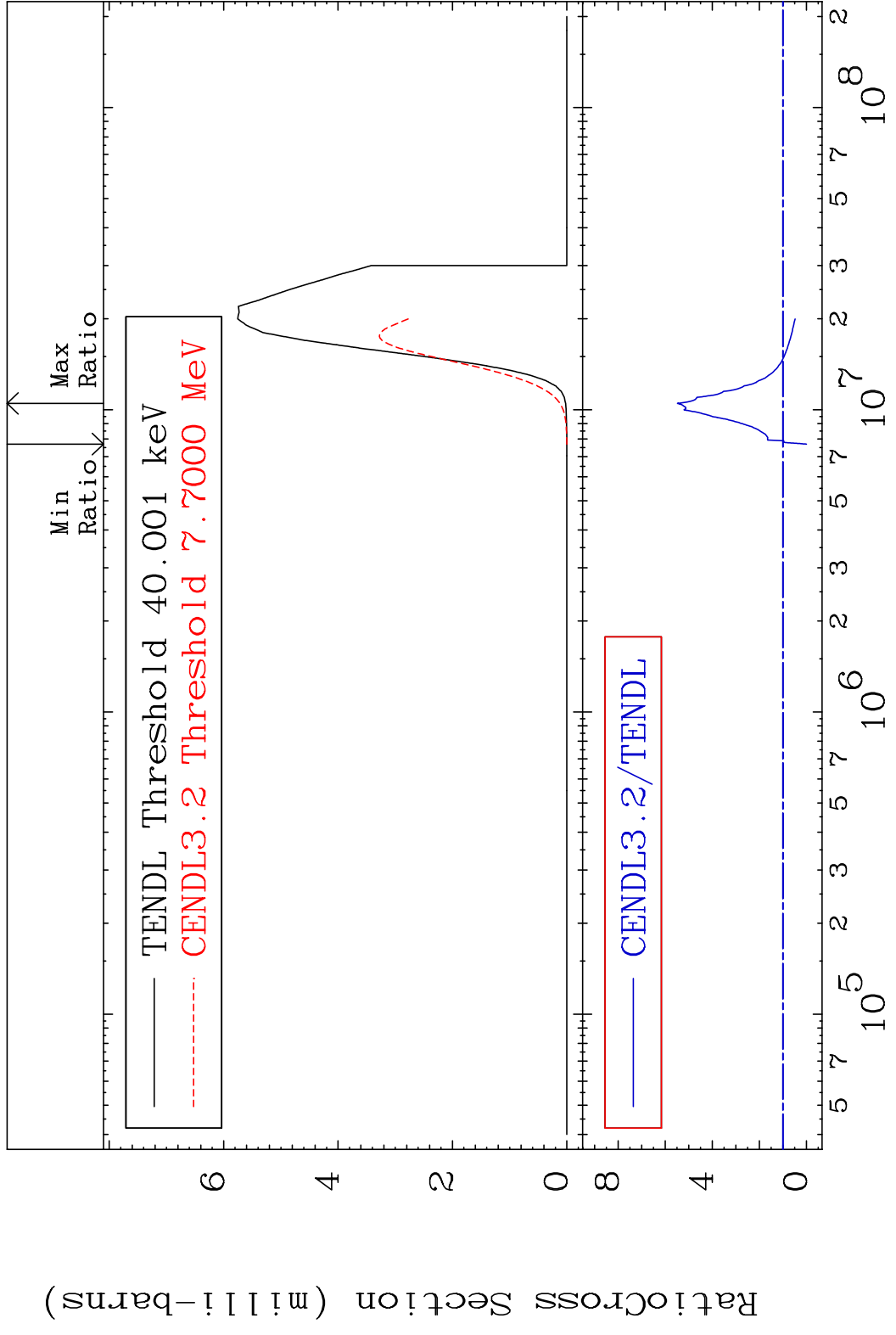
20

Incident Energy (eV)

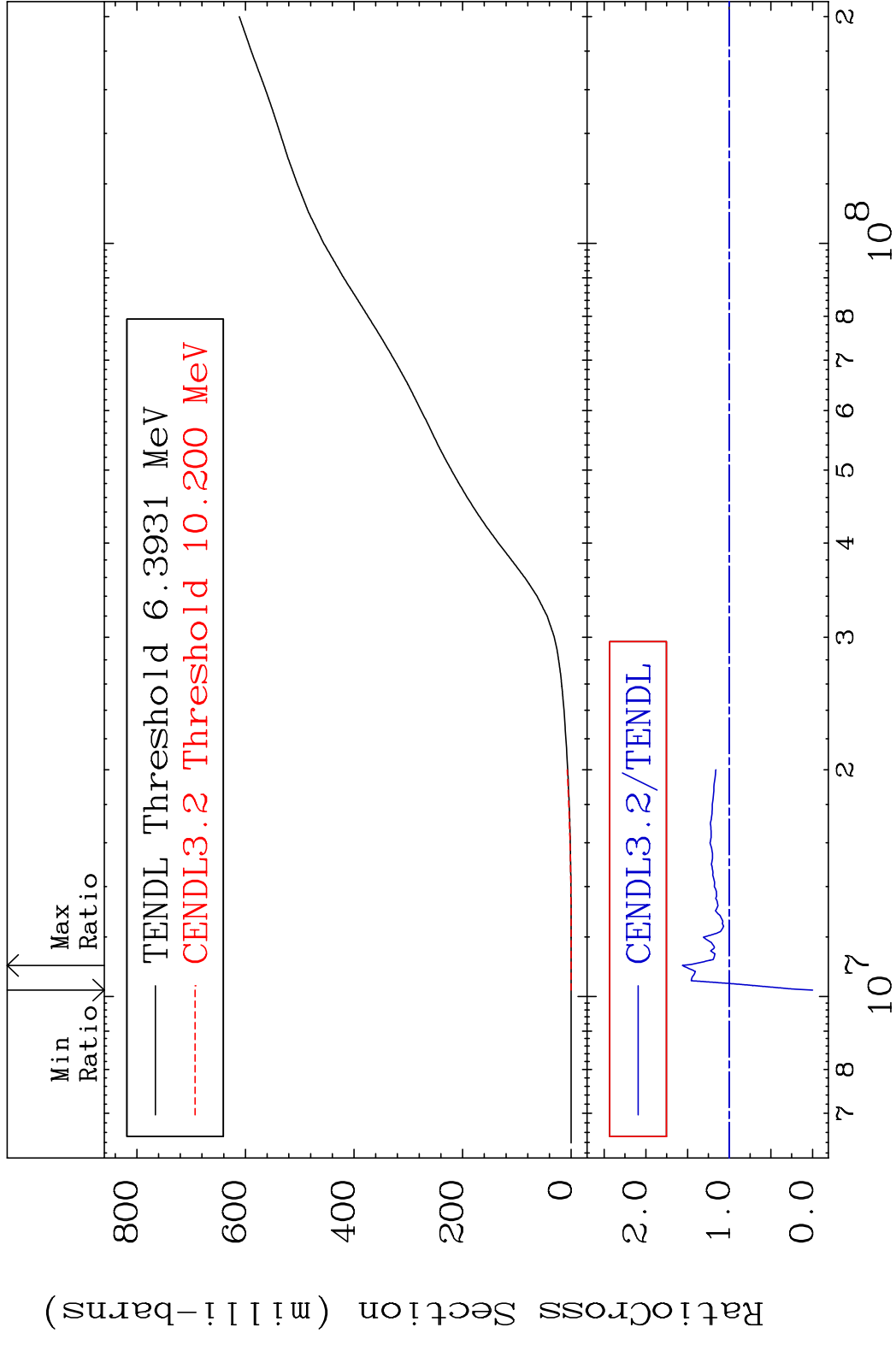
40-Zr-96

MAT 4043

(n, α) Cross Section -100.0 To 449.0 % 40-Zr-96

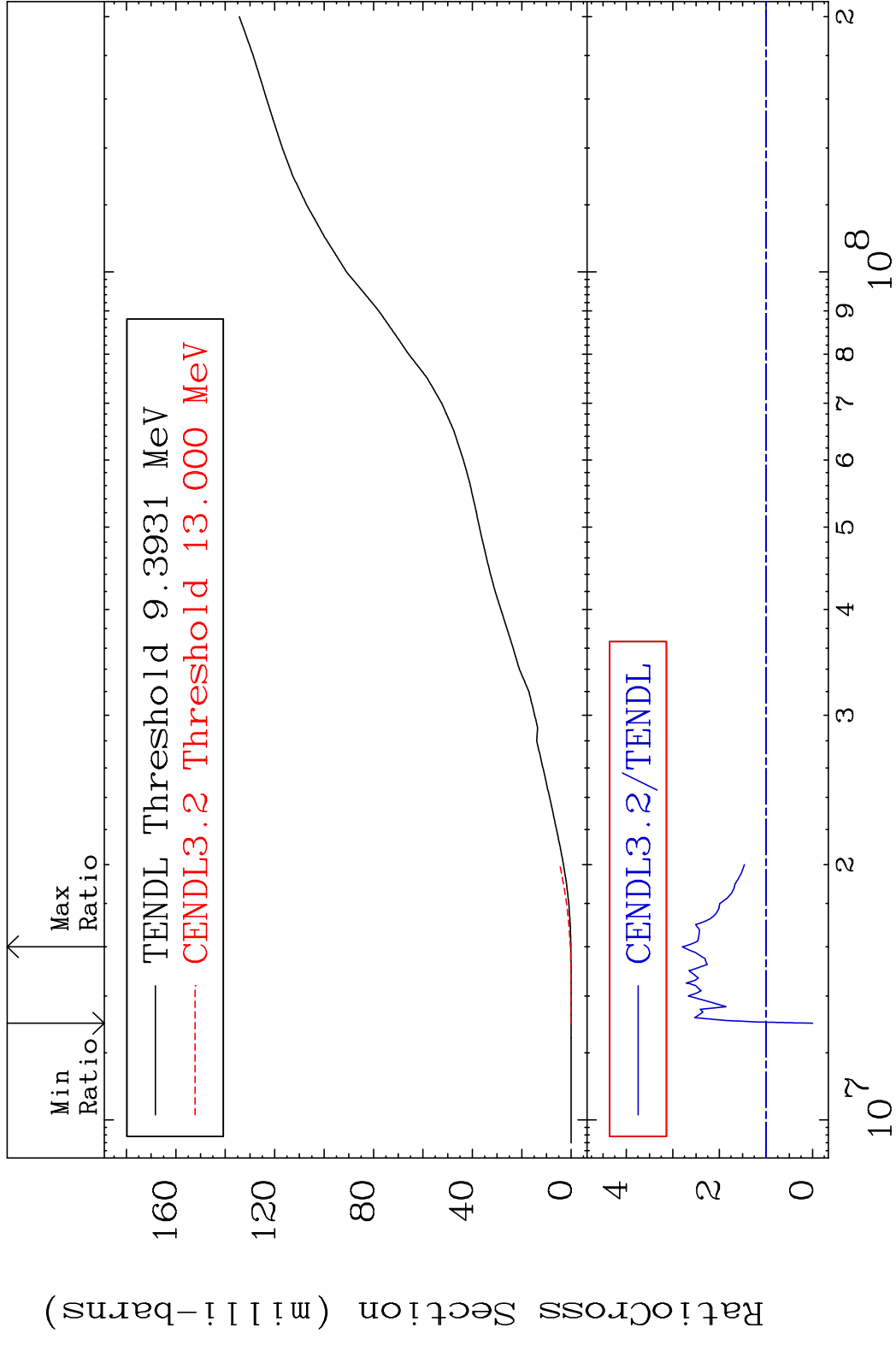


MAT 4043 Hydrogen Production 40-Zr-96
 Cross Section -100.0 To 56.20 %



MAT 4043

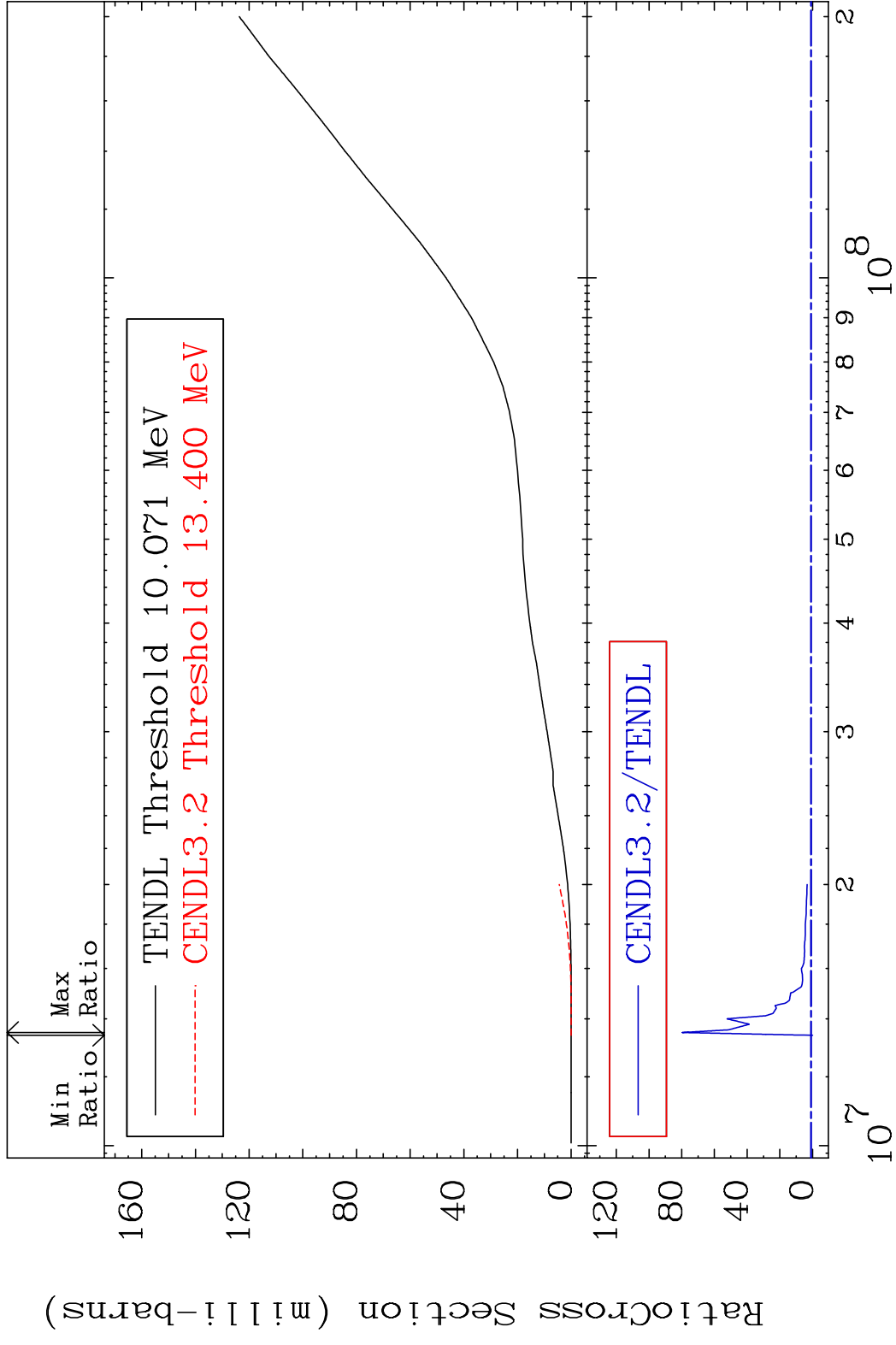
Deuterium Production 40-Zr-96
Cross Section -100.0 To 179.5 %



23

40-Zr-96

MAT 4043 Tritium Production 40-Zr-96
 Cross Section -100.0 To 7861. %



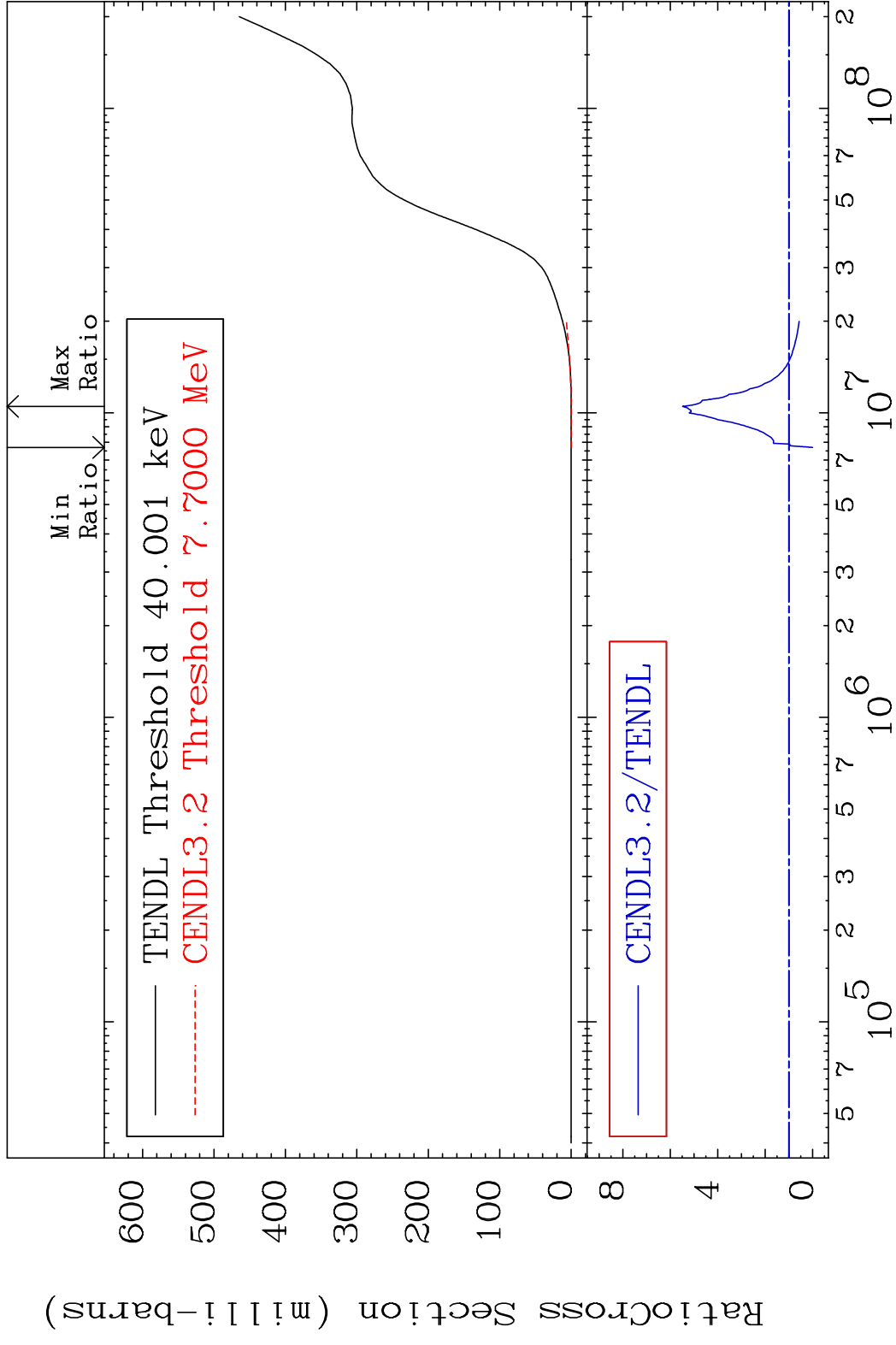
24 40-Zr-96

MAT 4043

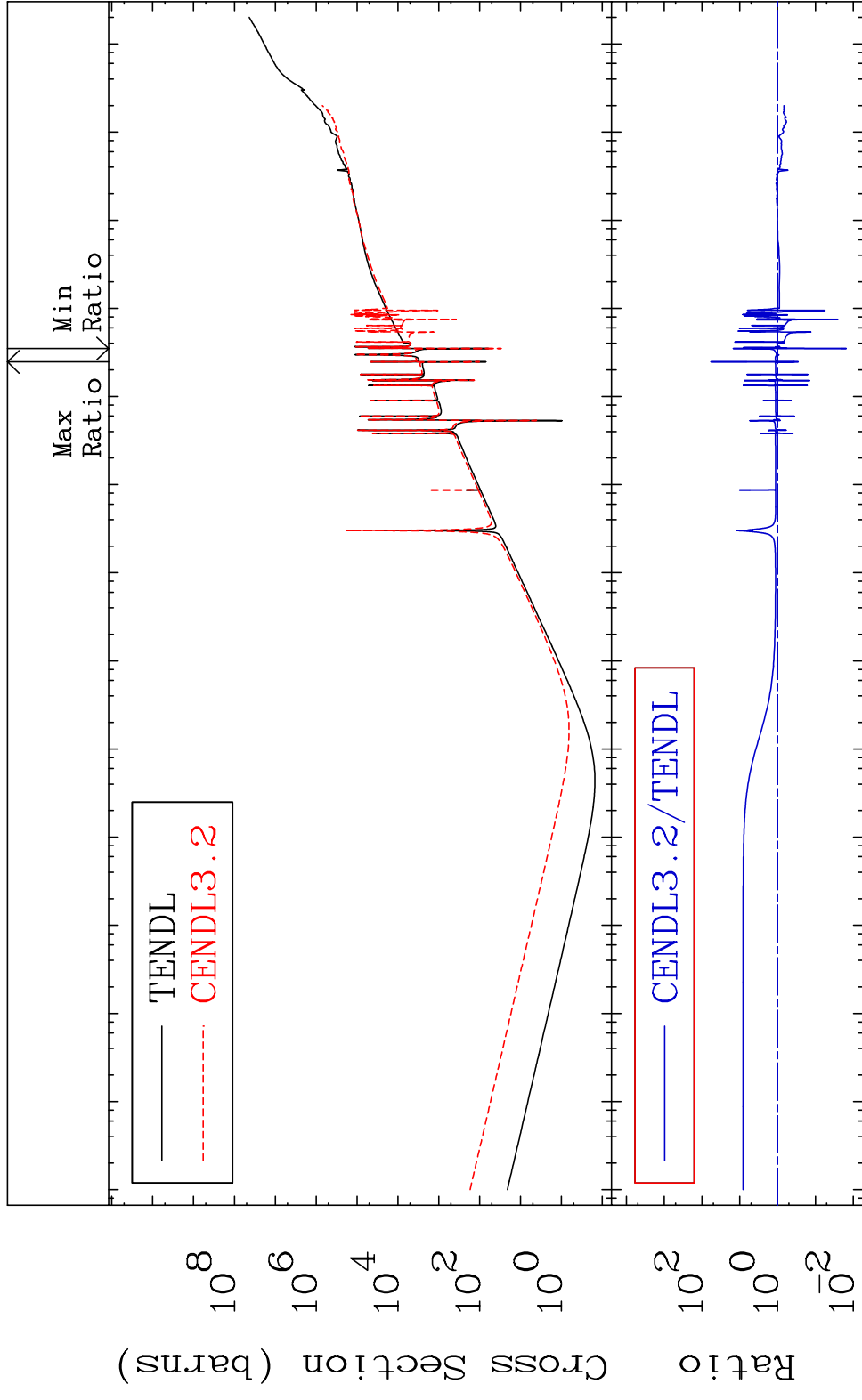
He-4 Production

40-Zr-96

Cross Section -100.0 To 448.9 %

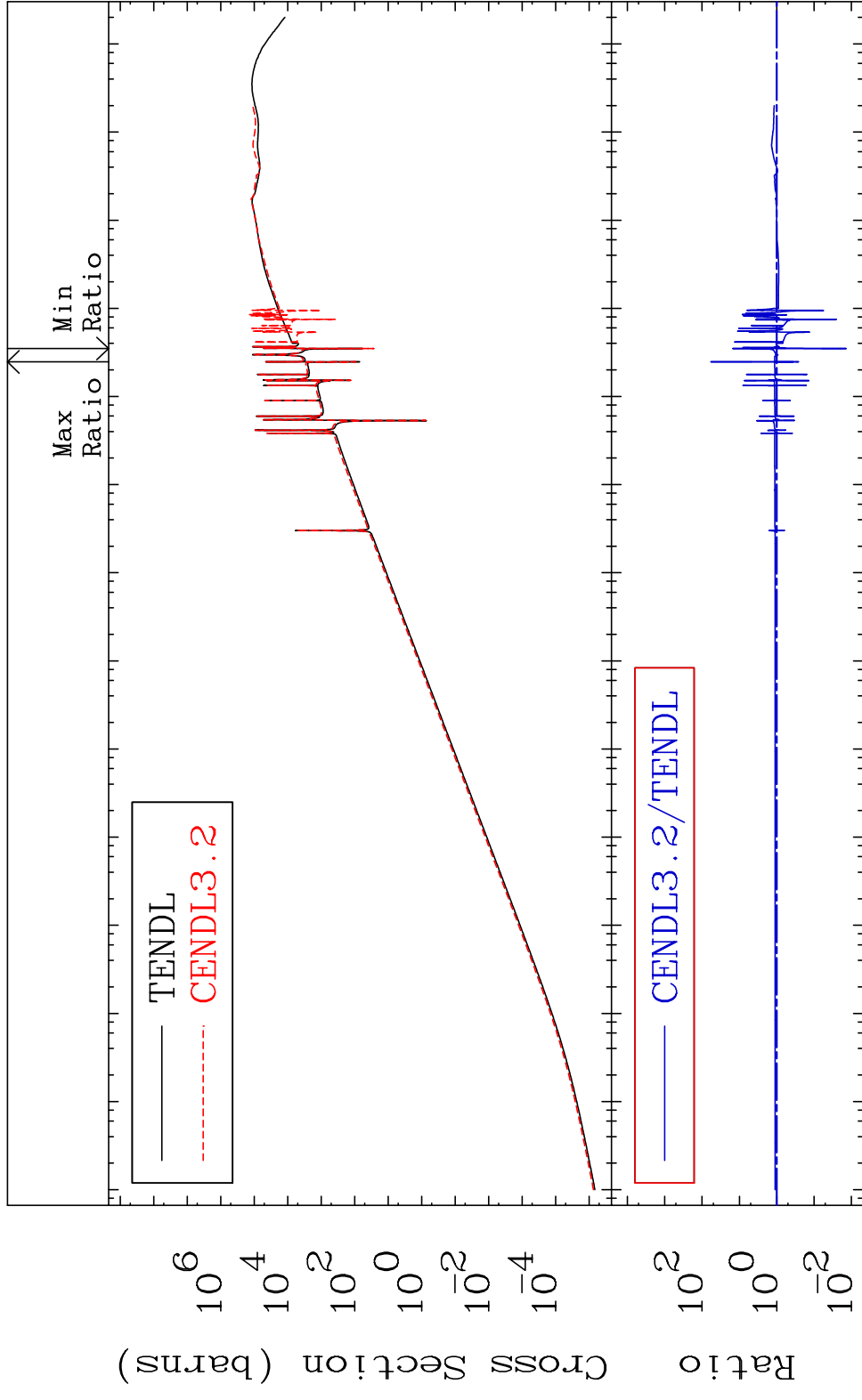


MAT 4043 Kerma total (eV-barns) 40-Zr-96
 Cross Section -98.48 To 5780. %



MAT 4043

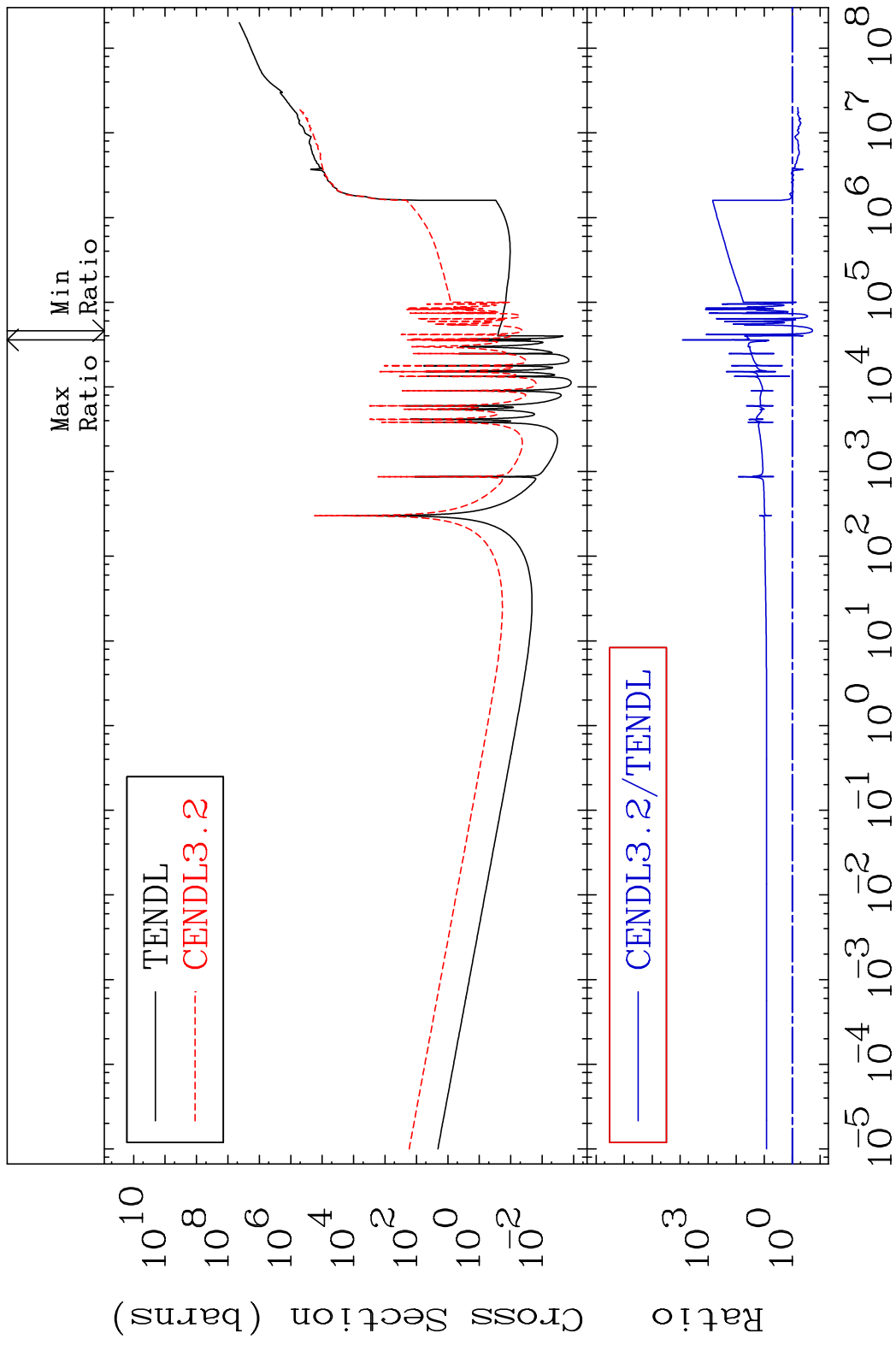
Kerma elastic Cross Section -98.63 To 5756. %
40-Zr-96



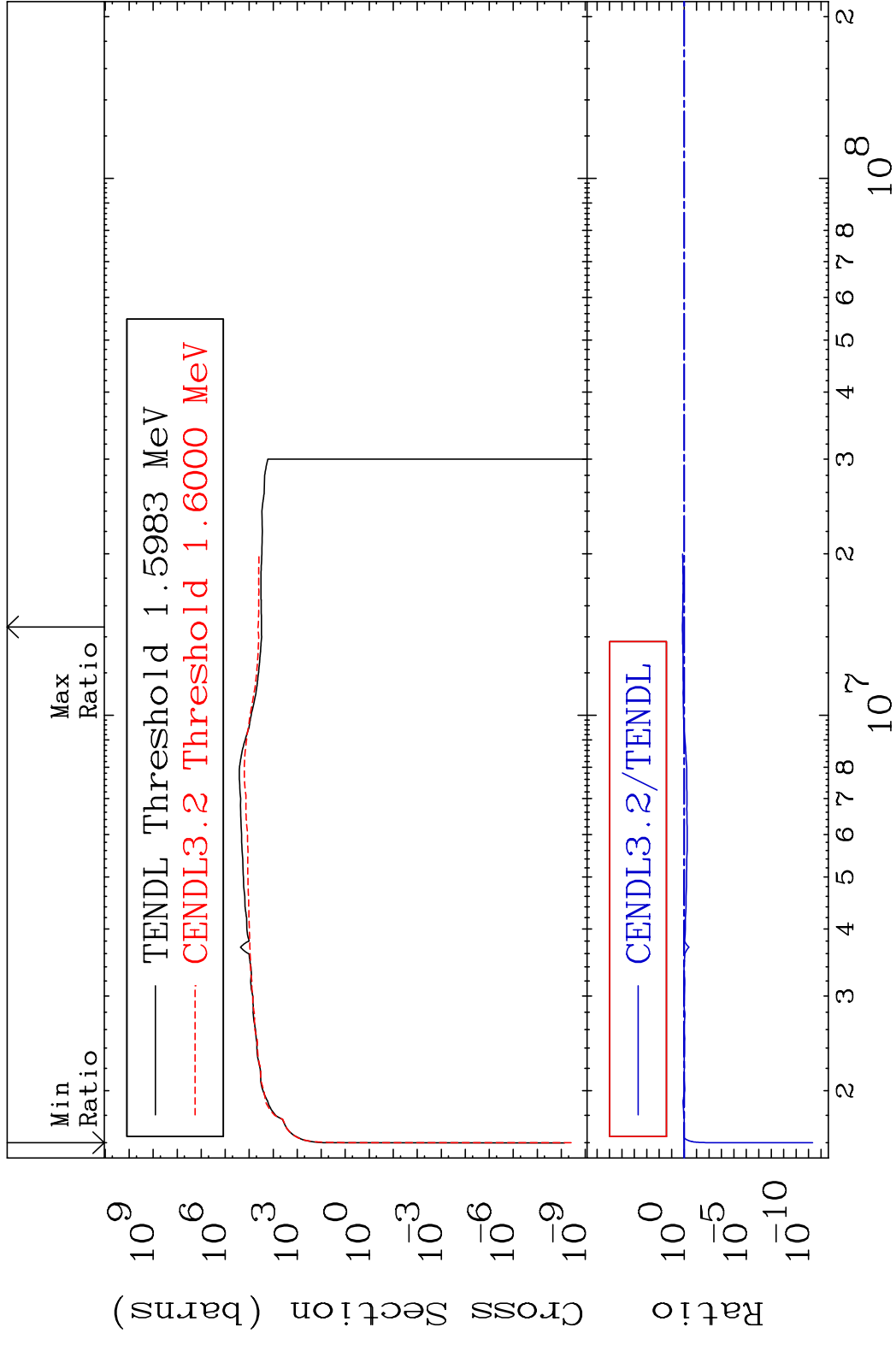
27

Incident Energy (eV) 40-Zr-96

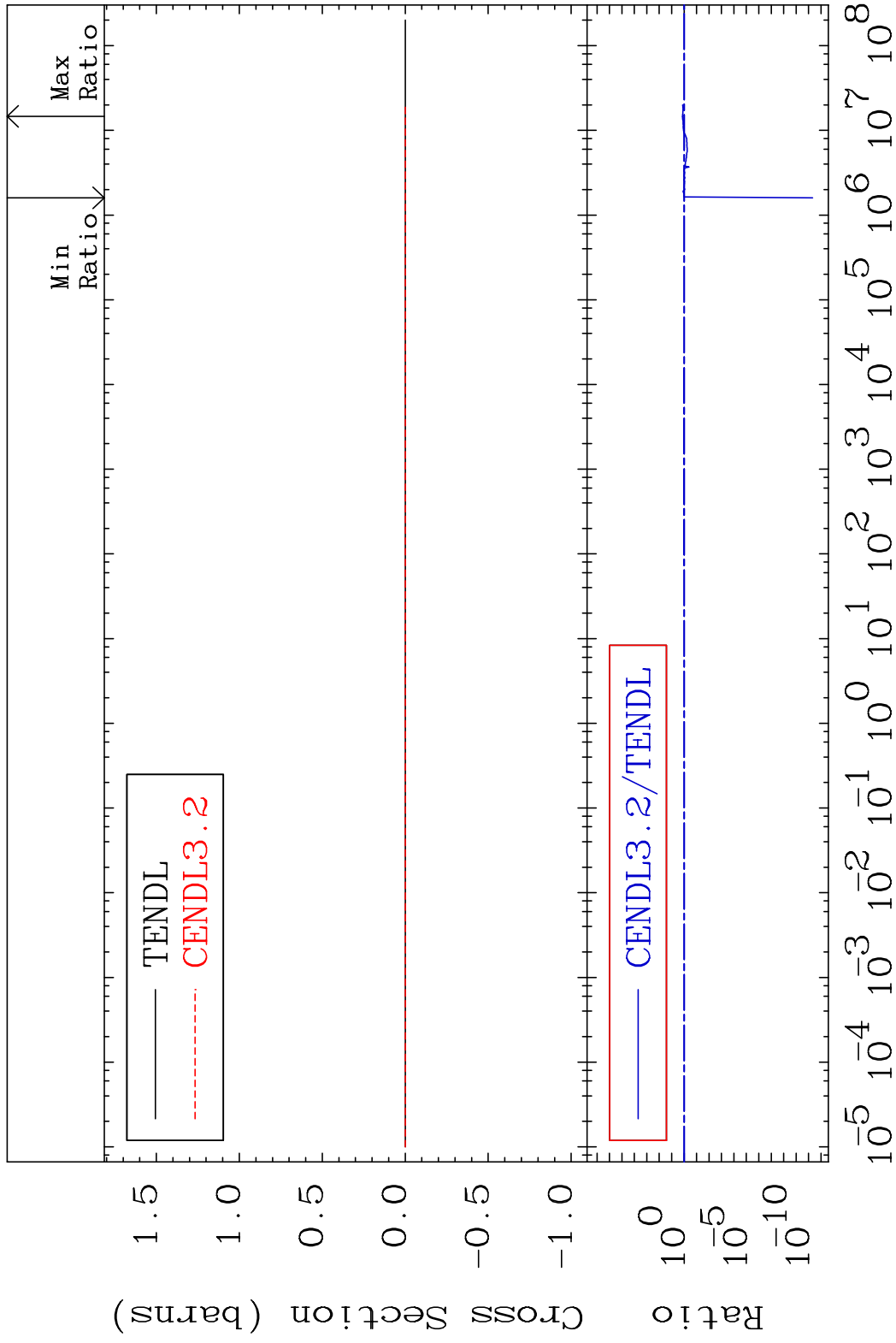
MAT 4043 Kerma non-elastic (all but mt2) 40-Zr-96
 Cross Section -81.26 To 9999. %



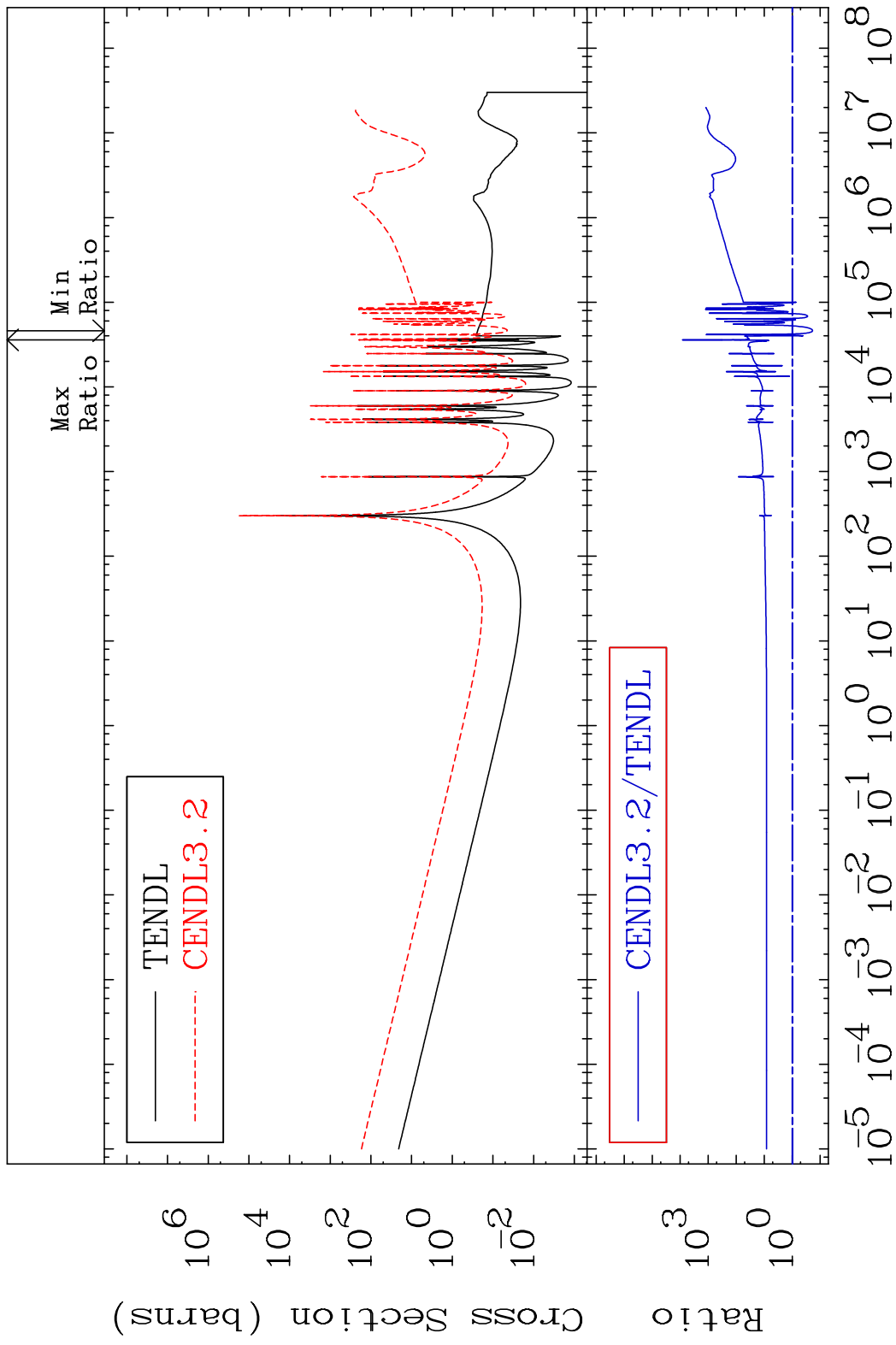
MAT 4043 Kerma inelastic (mt51-91) 40-Zr-96
 Cross Section -100.0 To 38.68 %



MAT 4043 Kerma fission (mt18 or mt19-20-21-38) 40-Zr-96
 Cross Section -100.0 To 38.68 %

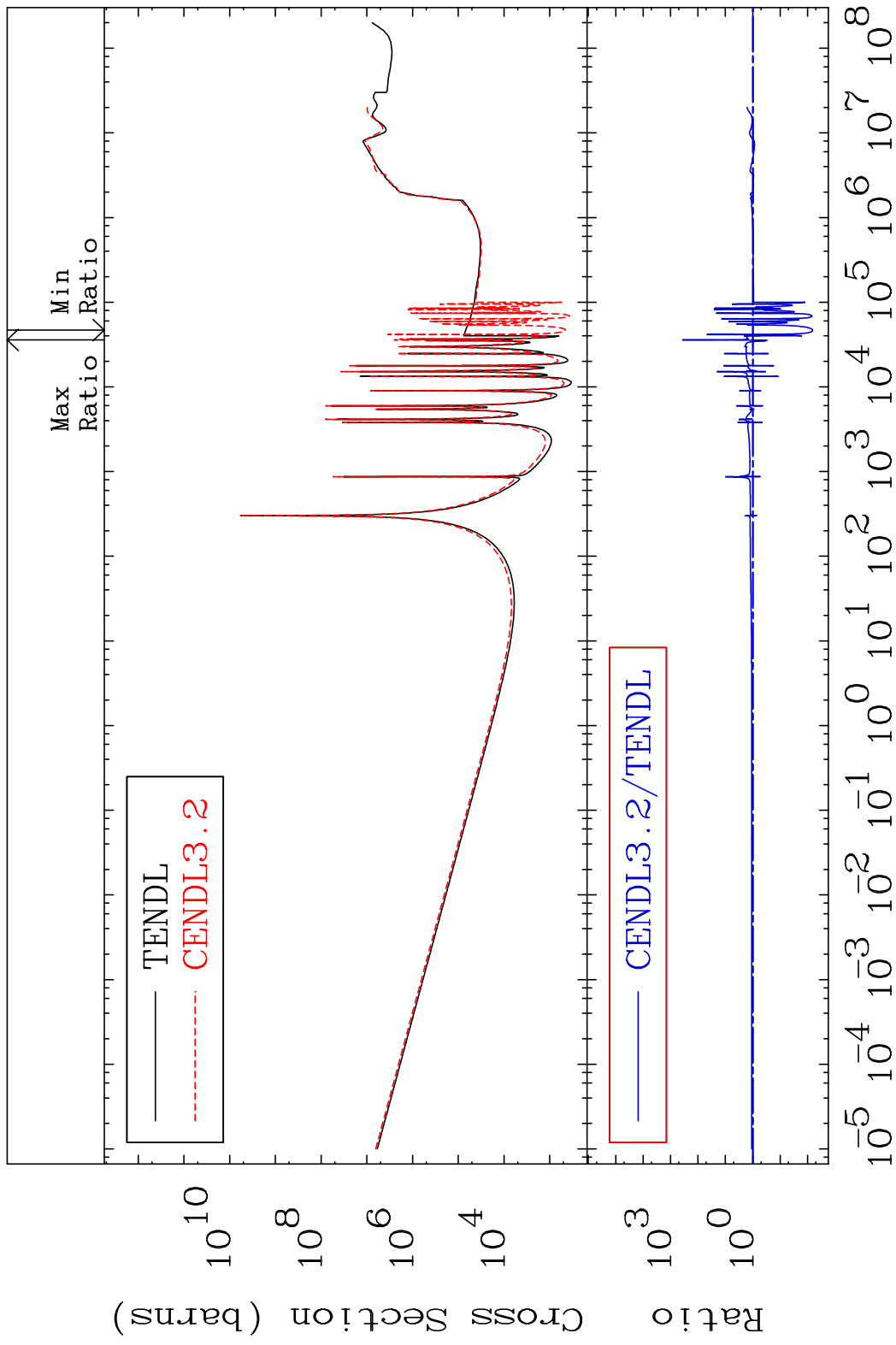


MAT 4043 Kerma capture (mt102) 40-Zr-96
 Cross Section -81.26 To 9999. %



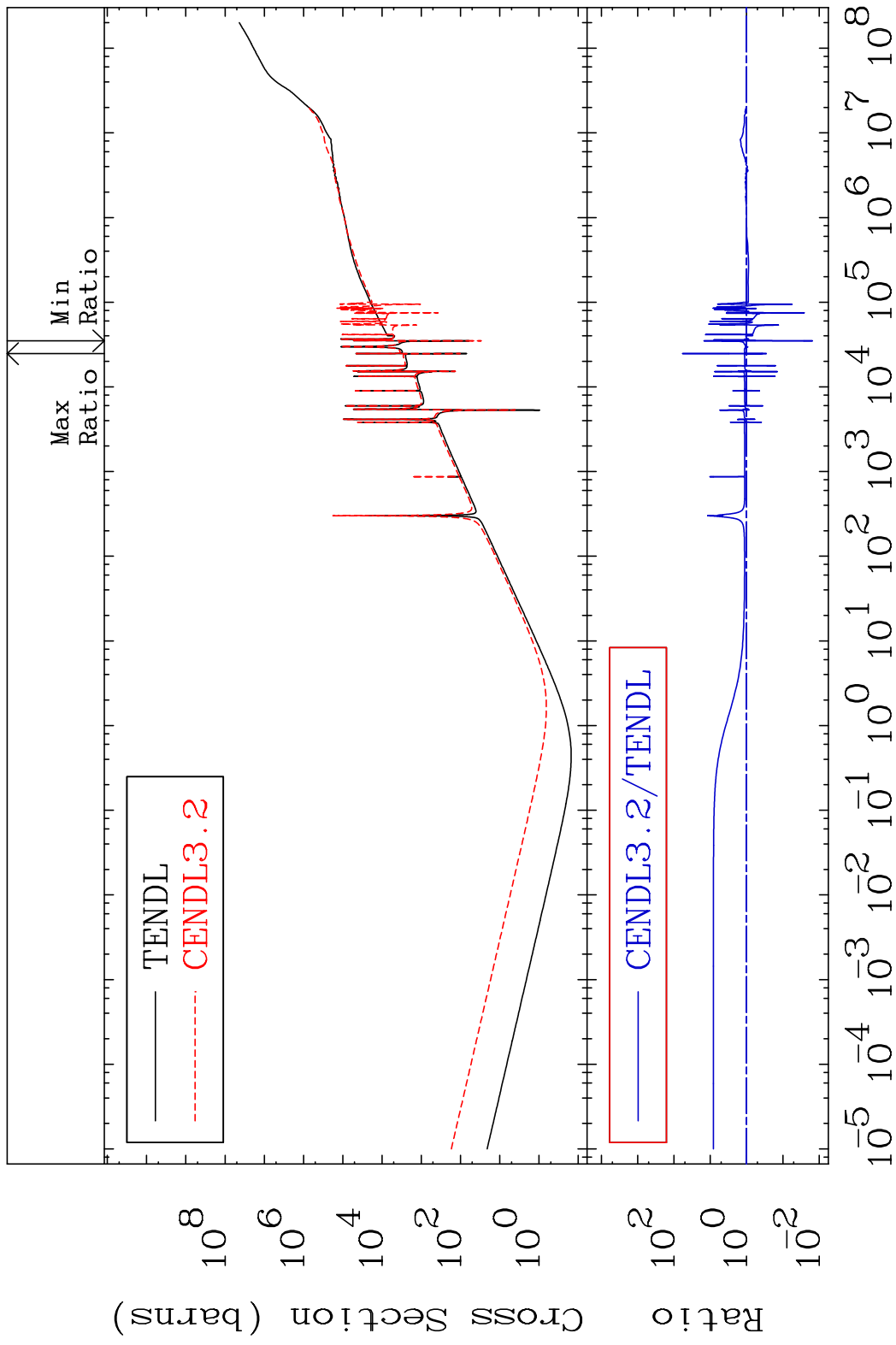
31 Incident Energy (eV) 40-Zr-96

MAT 4043 Total photon (eV-barns) 40-Zr-96
 Cross Section -99.34 To 9999. %

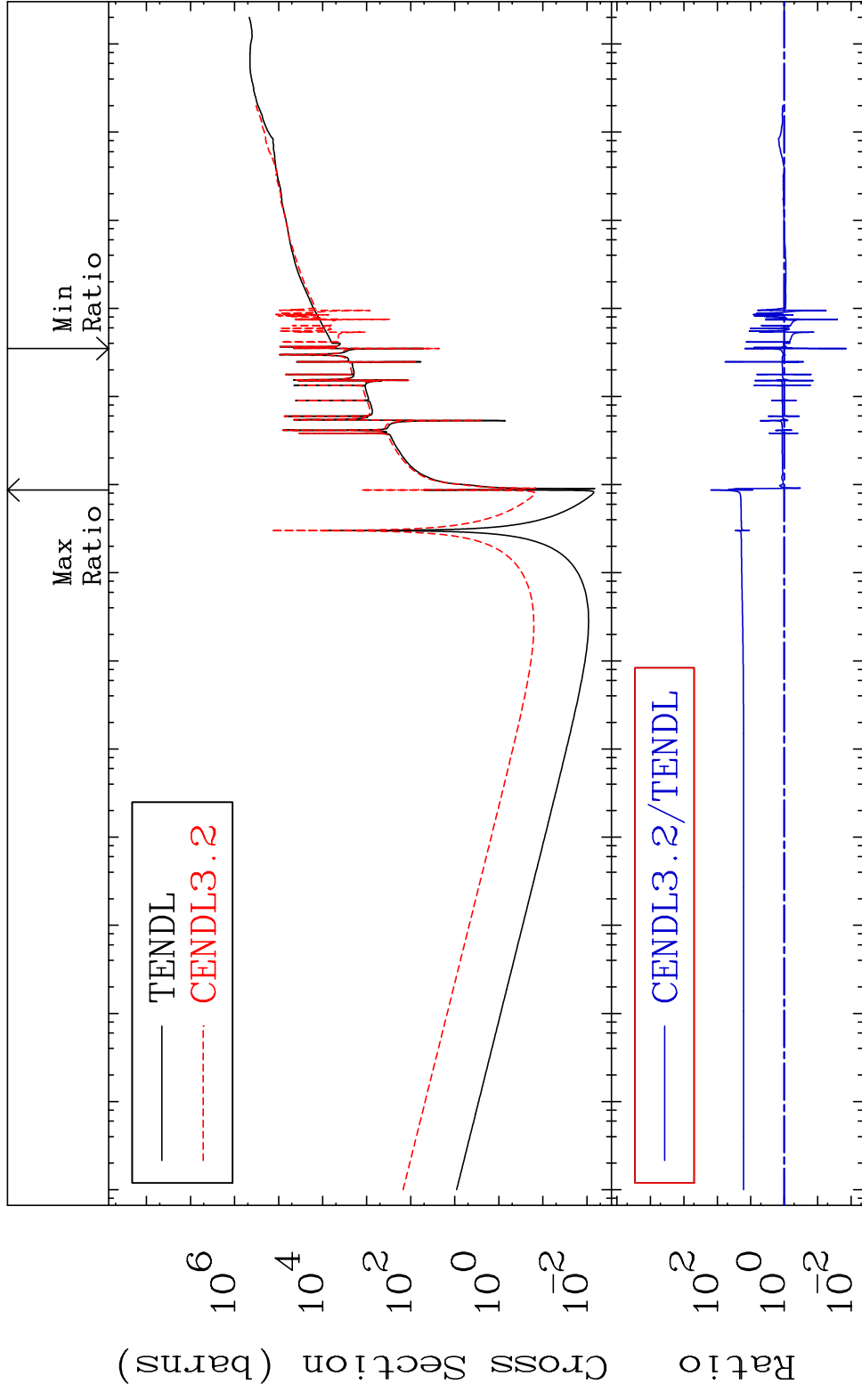


32 Incident Energy (eV) 40-Zr-96

MAT 4043 Total kinematic kerma (high limit) 40-Zr-96
 Cross Section -98.48 To 5780. %



MAT 4043 Dpa total (eV-barns) 40-Zr-96
 Cross Section -98.62 To 9999. %



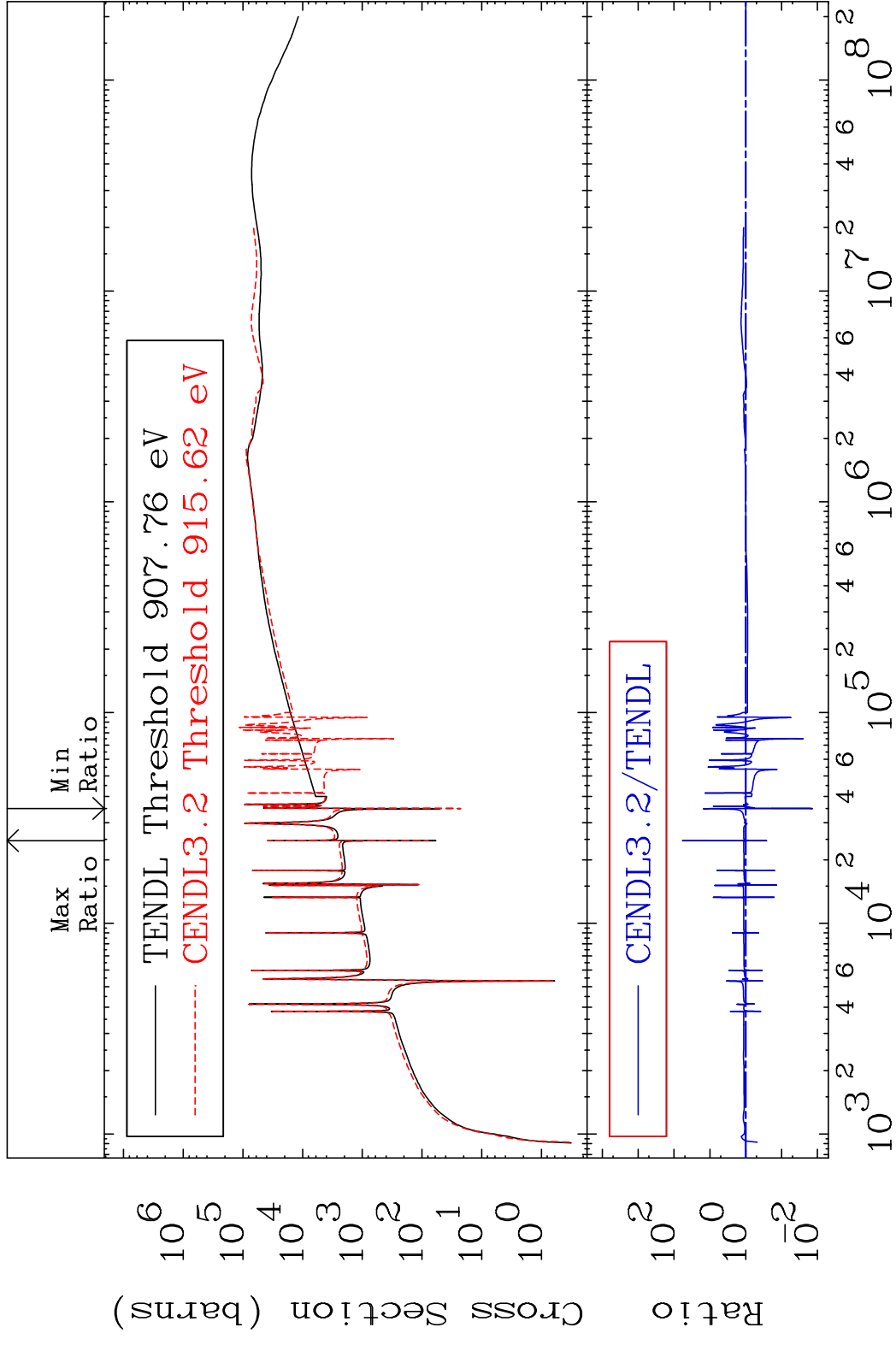
34 Incident Energy (eV) 40-Zr-96

MAT 4043

Dpa elastic (mt2)

40-Zr-96

Cross Section -98.63 To 5759. %

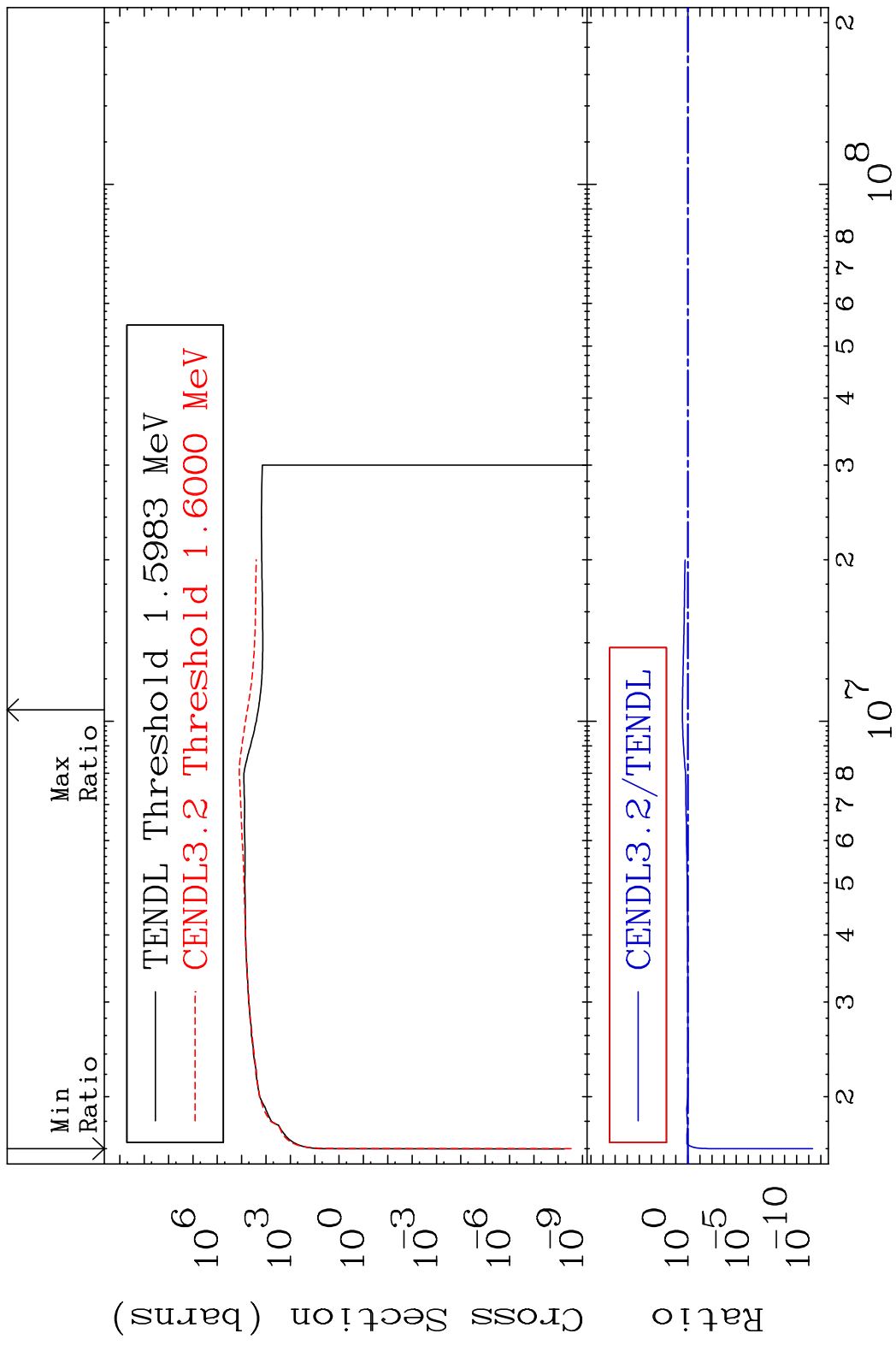


35

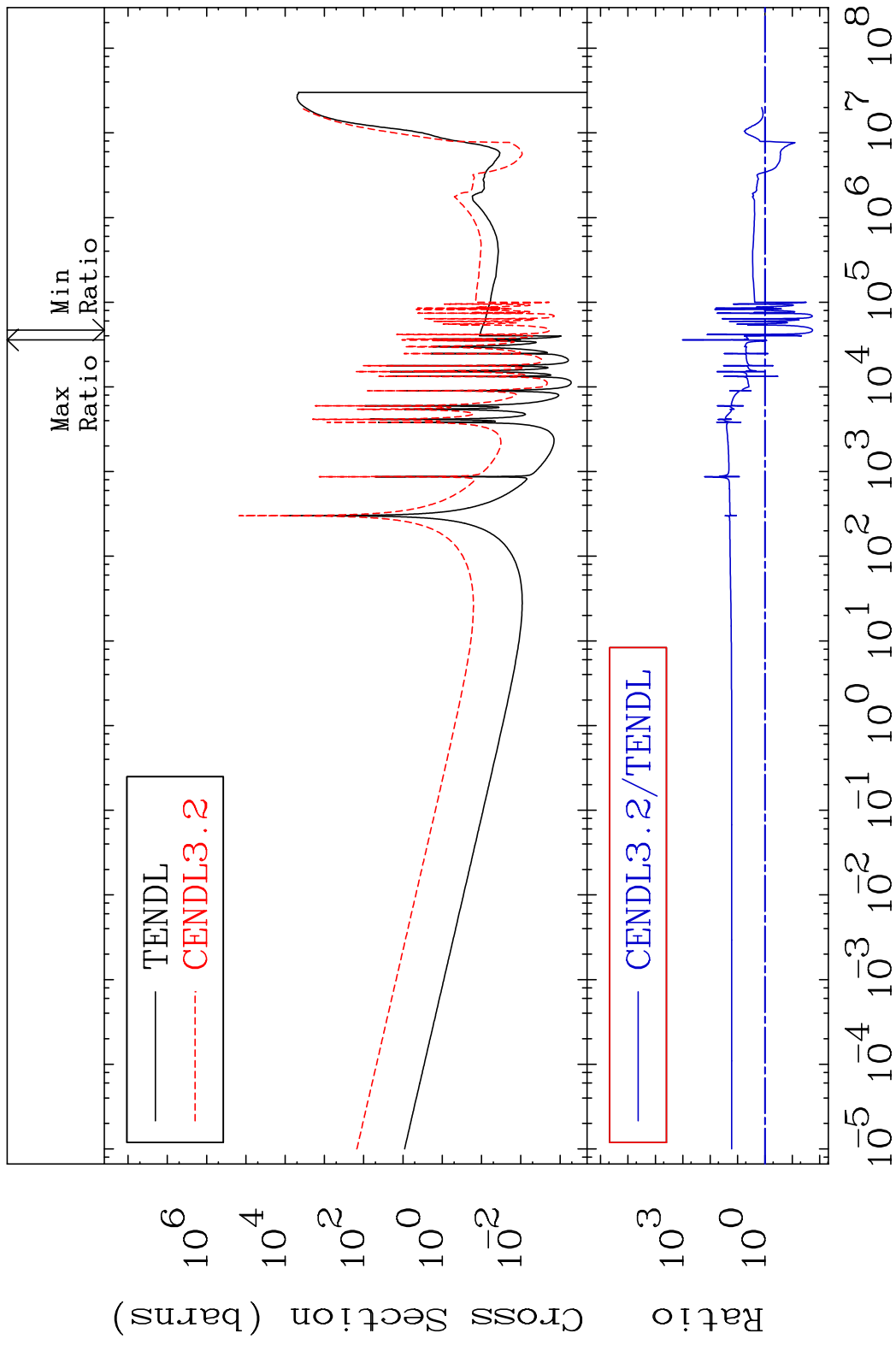
Incident Energy (eV)

40-Zr-96

MAT 4043 Dpa inelastic (mt51-91) 40-Zr-96
 Cross Section -100.0 To 180.5 %

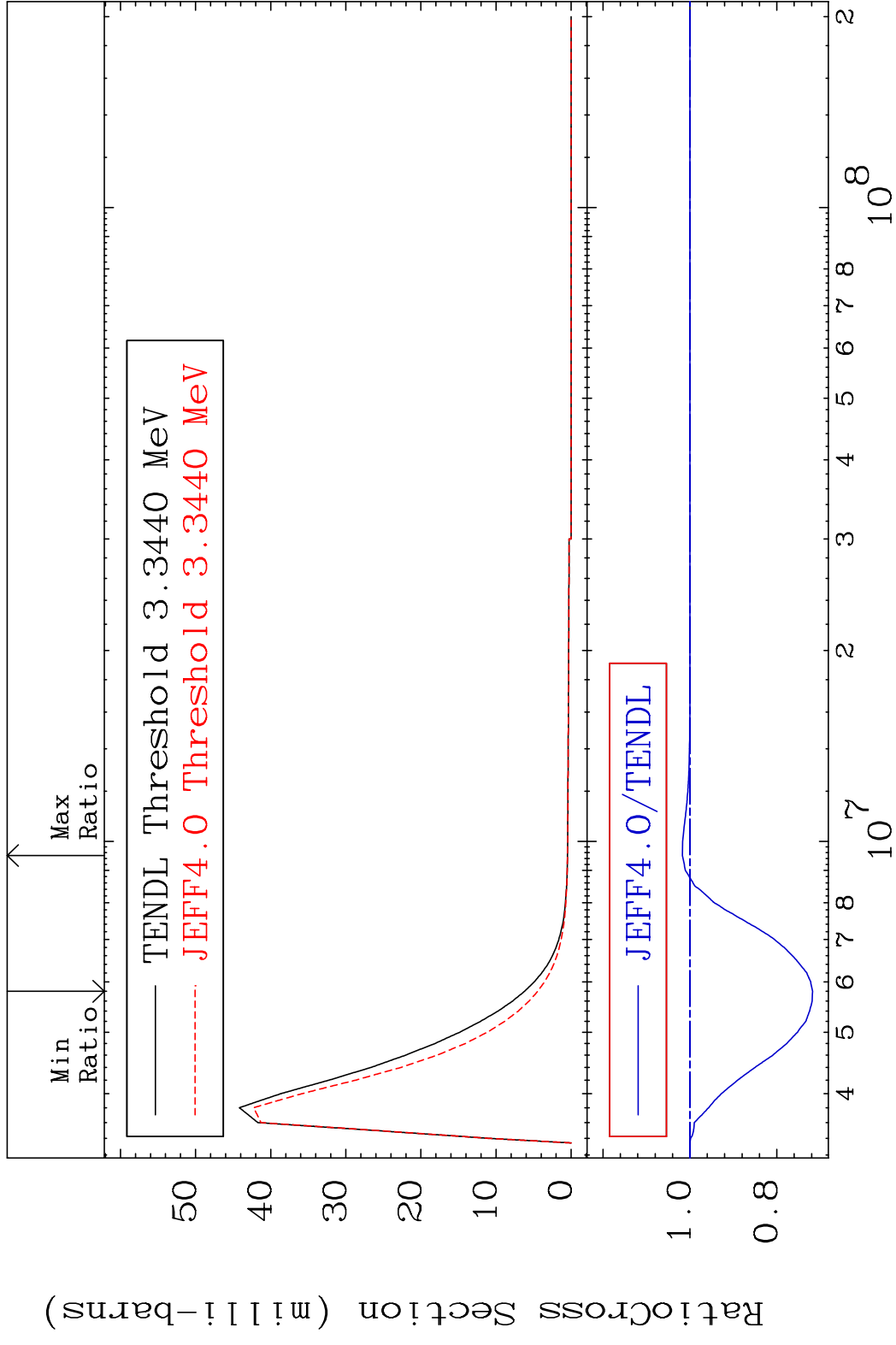


MAT 4043 Dpa disappearance (mt102 -120) 40-Zr-96
 Cross Section -98.18 To 9999. %

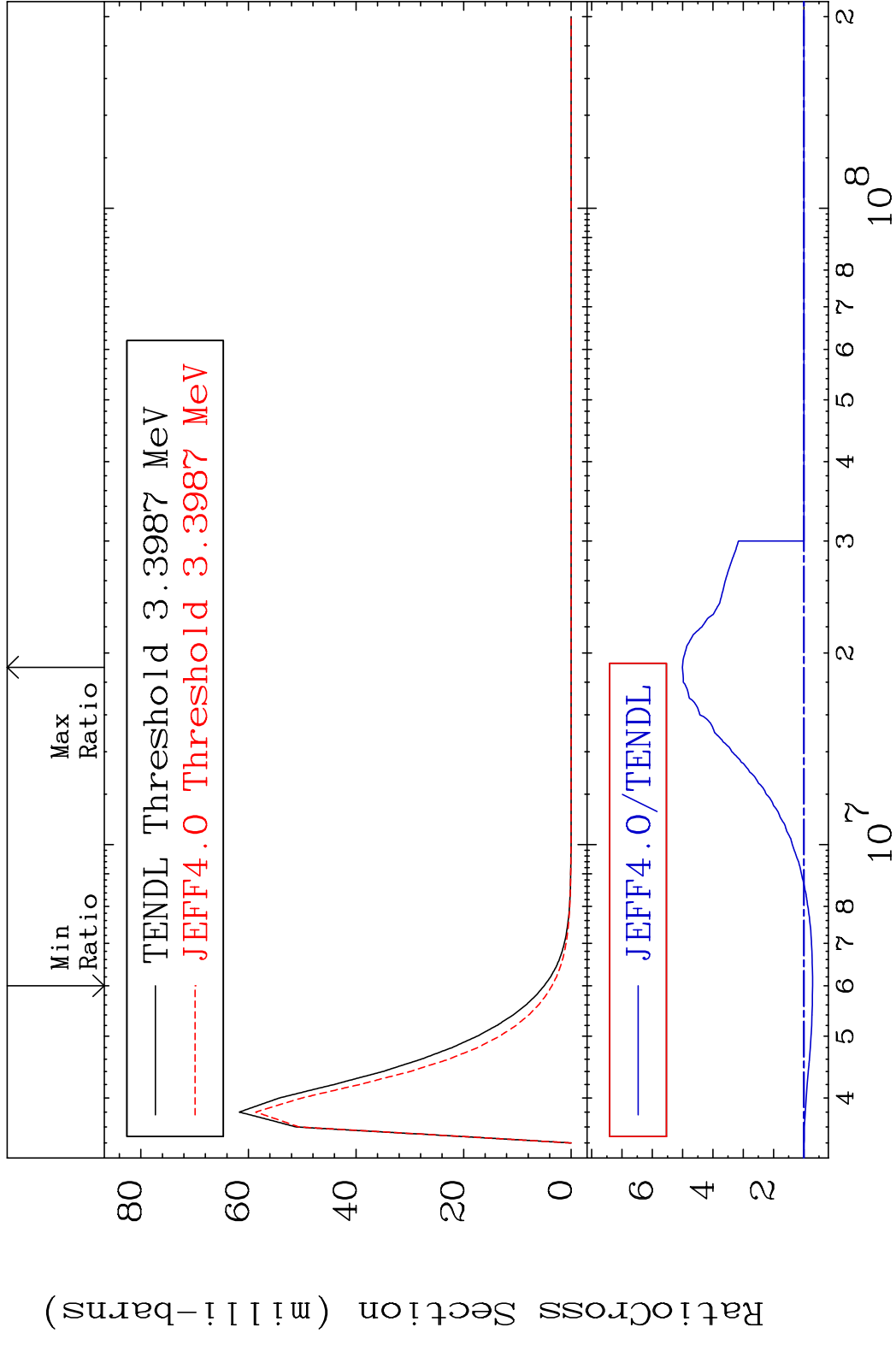


37 Incident Energy (eV) 40-Zr-96

MAT 4043 MT= 70 (n, n') Level 40-Zr-96
 Cross Section -28.22 To 1.742 %



MAT 4043 MT= 71 (n, n') Level 40-Zr-96
 Cross Section -28.62 To 400.9 %

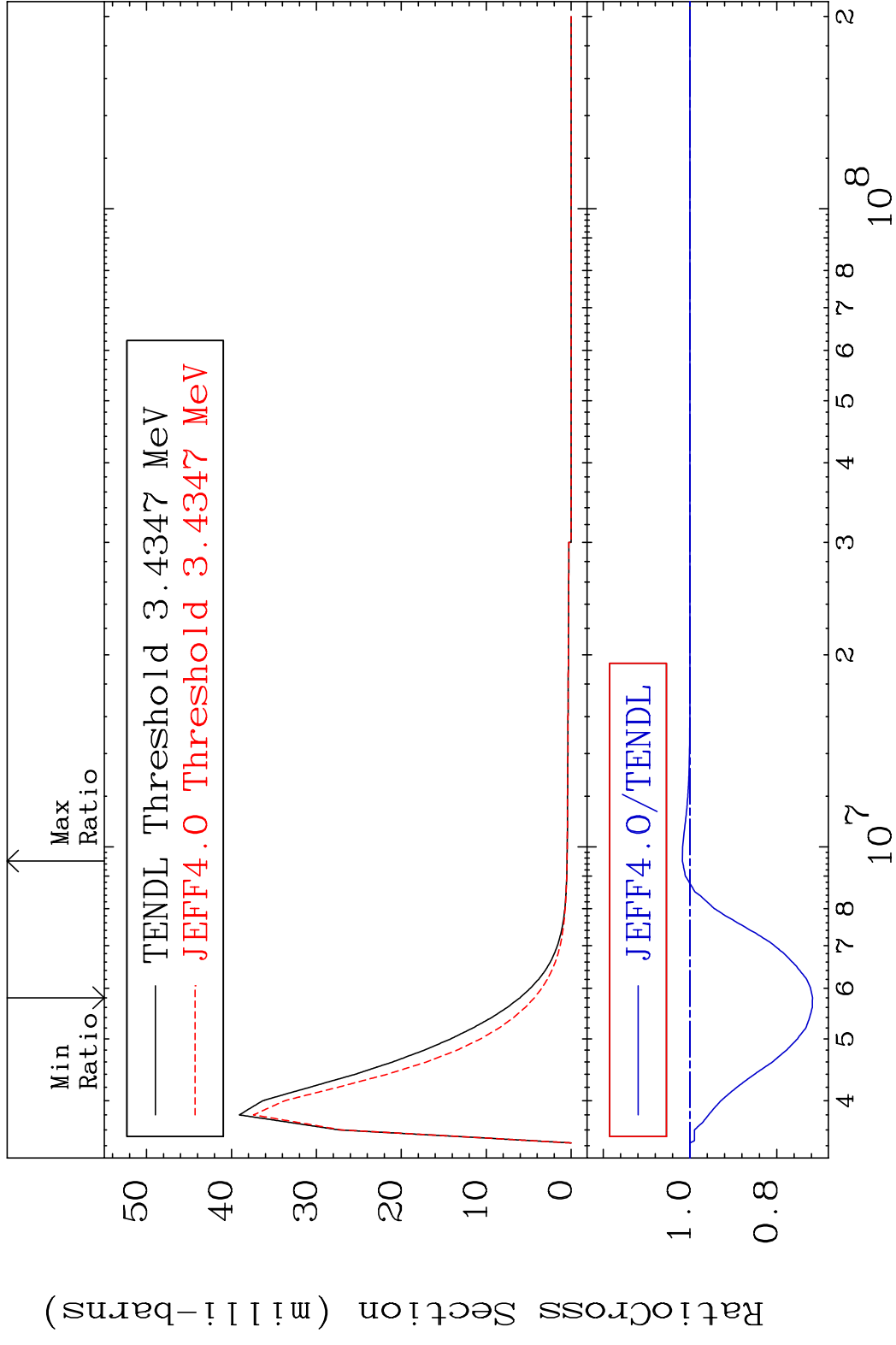


MAT 4043

MT= 72 (n, n') Level

40-Zr-96

Cross Section -28.26 To 1.749 %

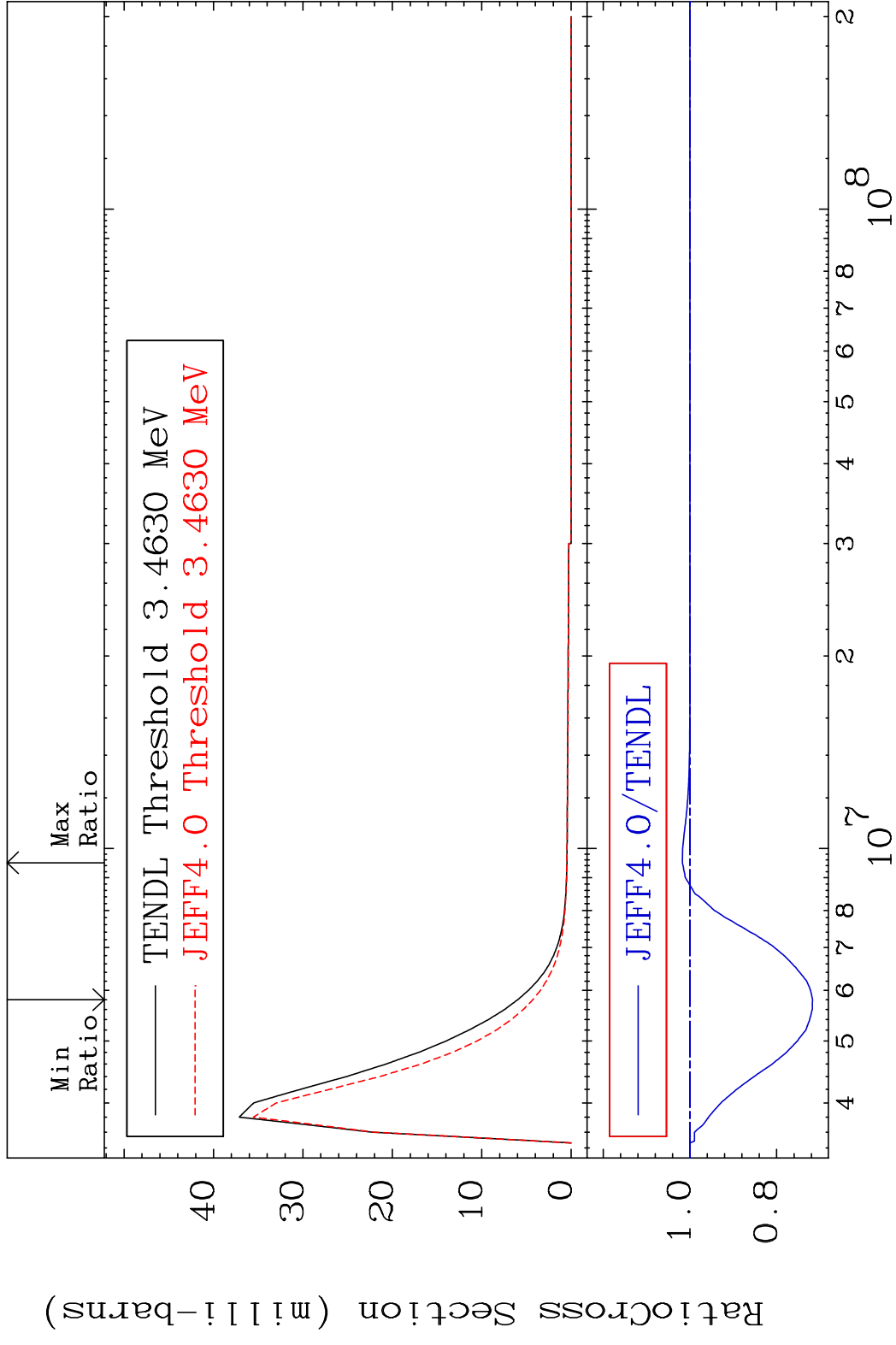


40

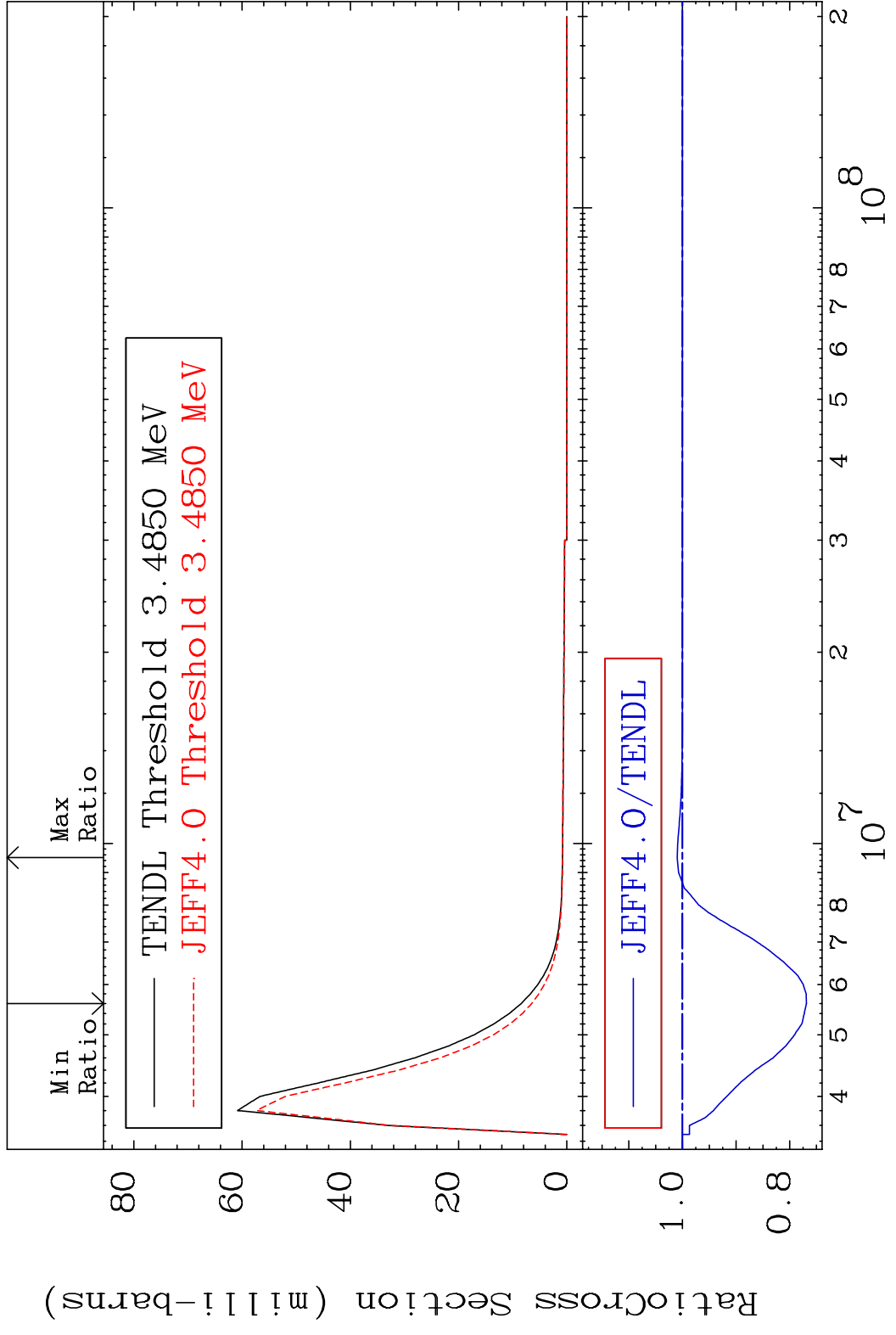
Incident Energy (eV)

40-Zr-96

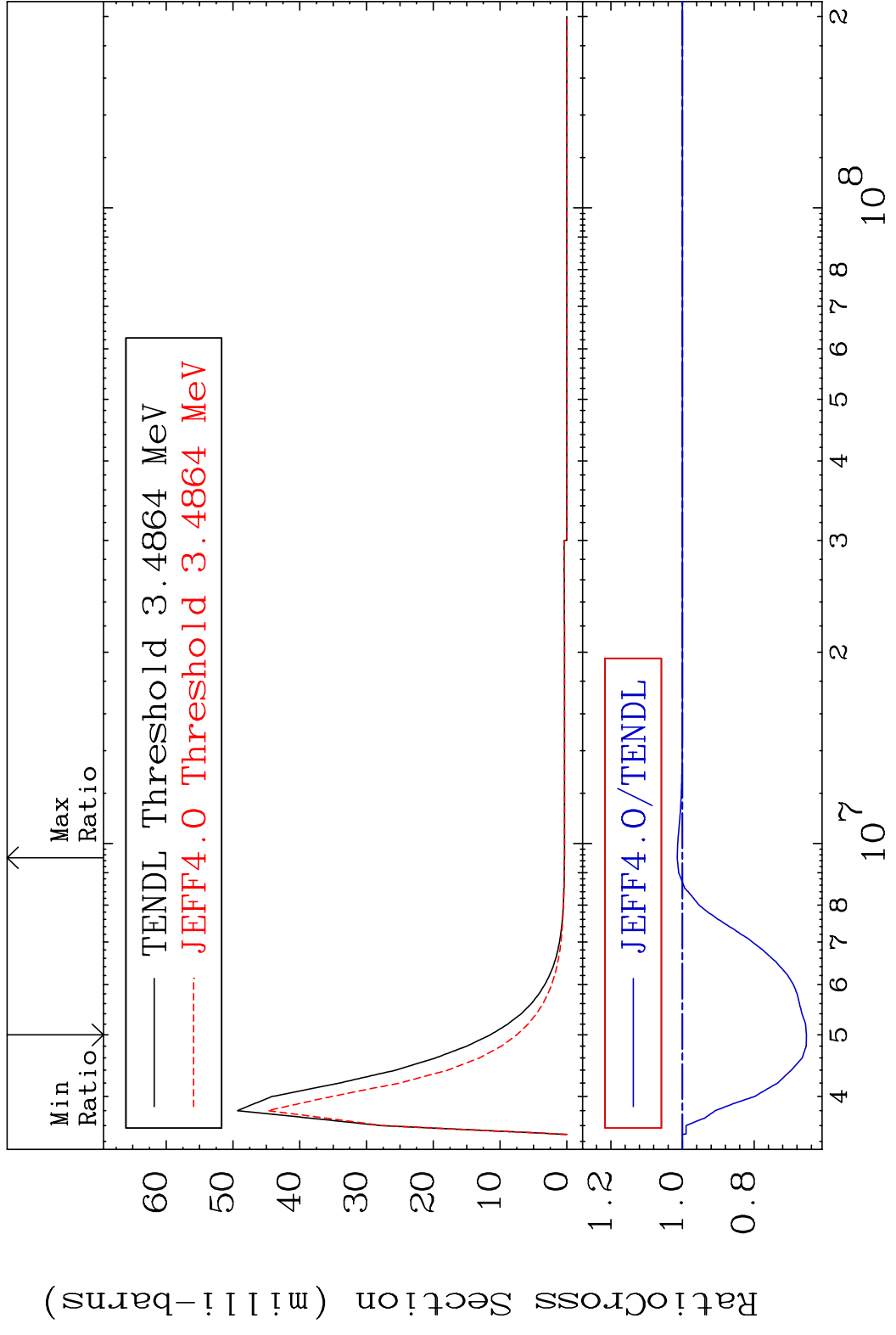
MAT 4043 MT= 73 (n, n') Level 40-Zr-96
 Cross Section -28.27 To 1.751 %



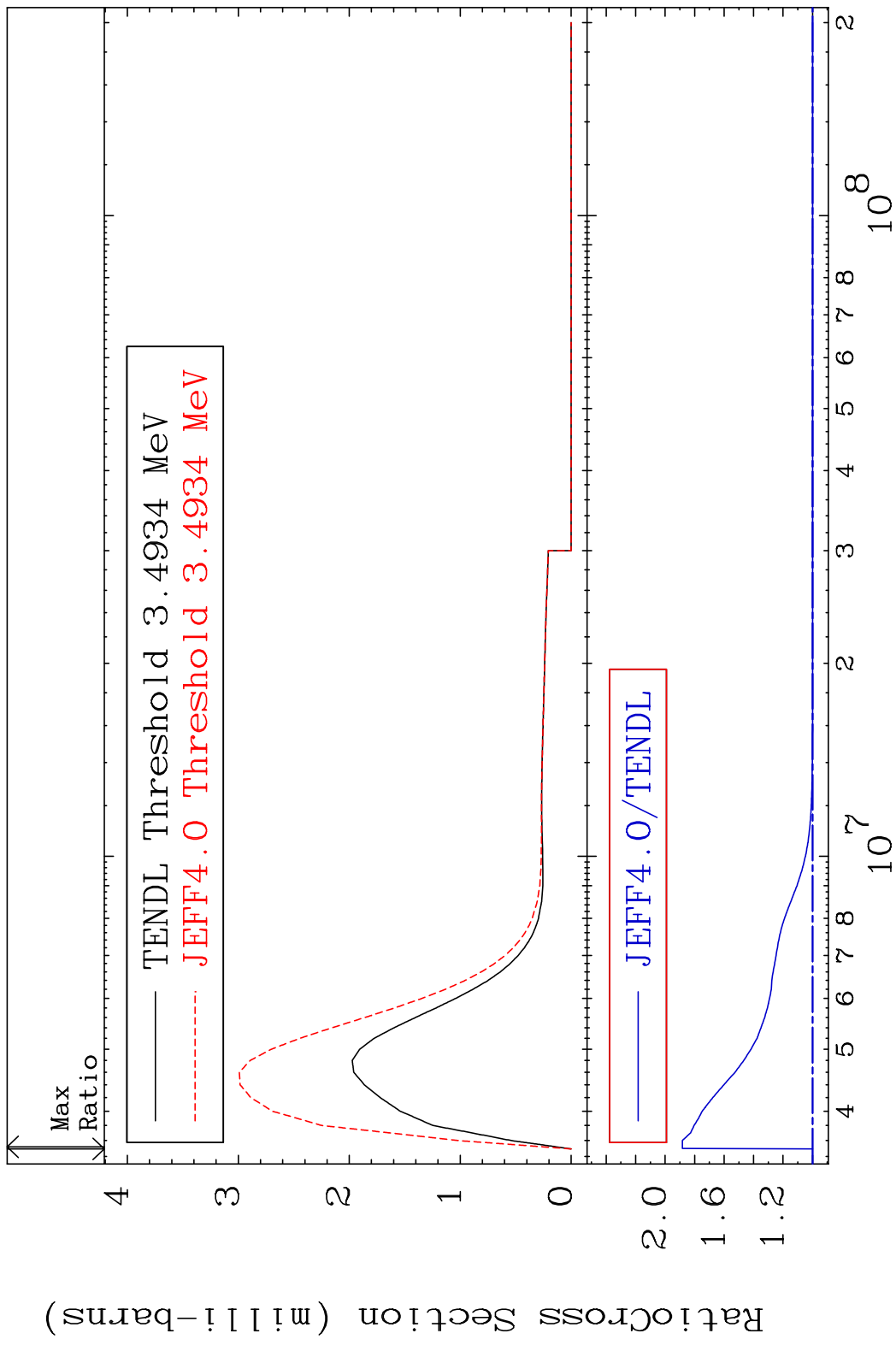
MAT 4043 MT= 74 (n,n') Level 40-Zr-96
 Cross Section -23.11 To 0.980 %



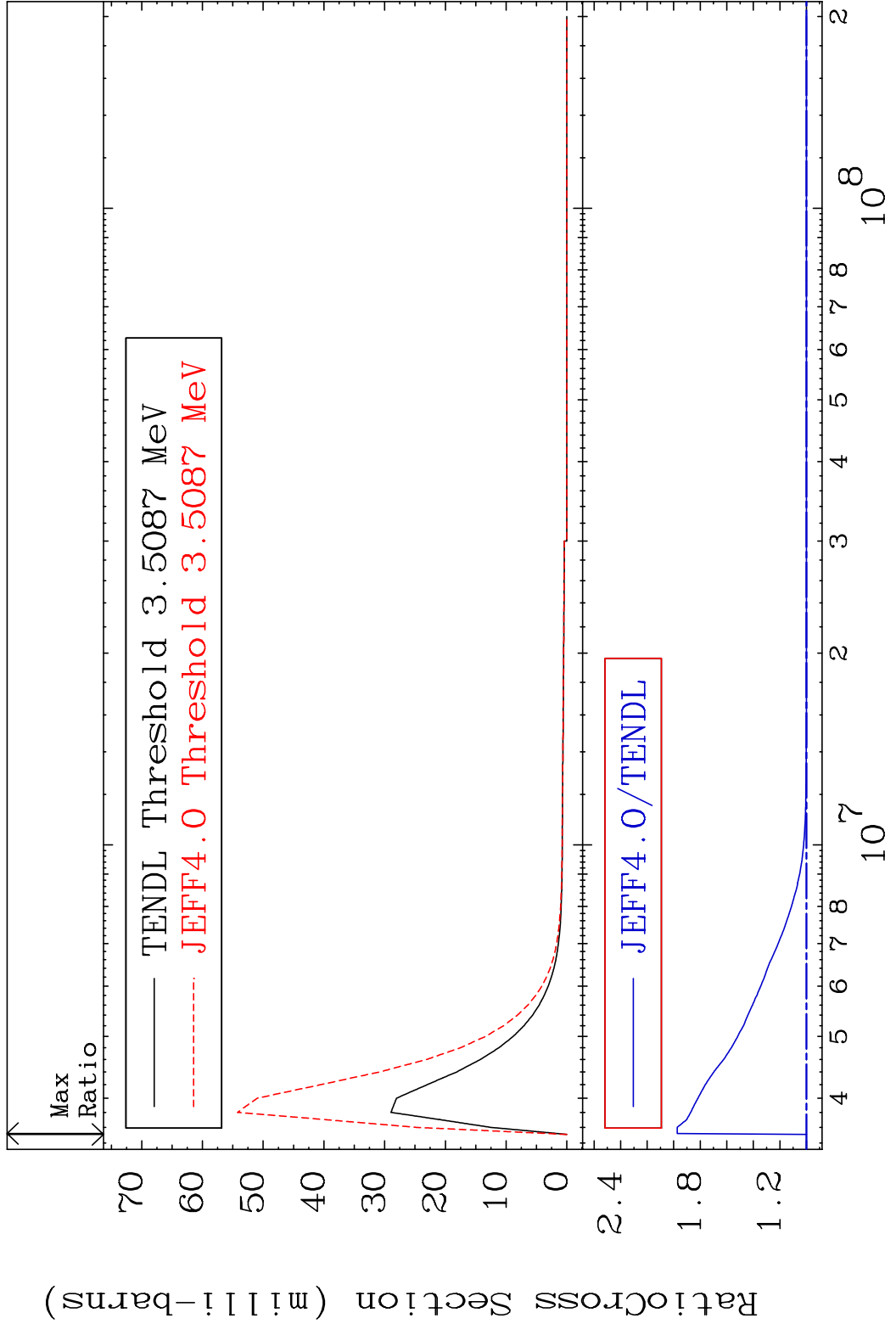
MAT 4043 MT= 75 (n,n') Level 40-Zr-96
 Cross Section -34.61 To 1.468 %



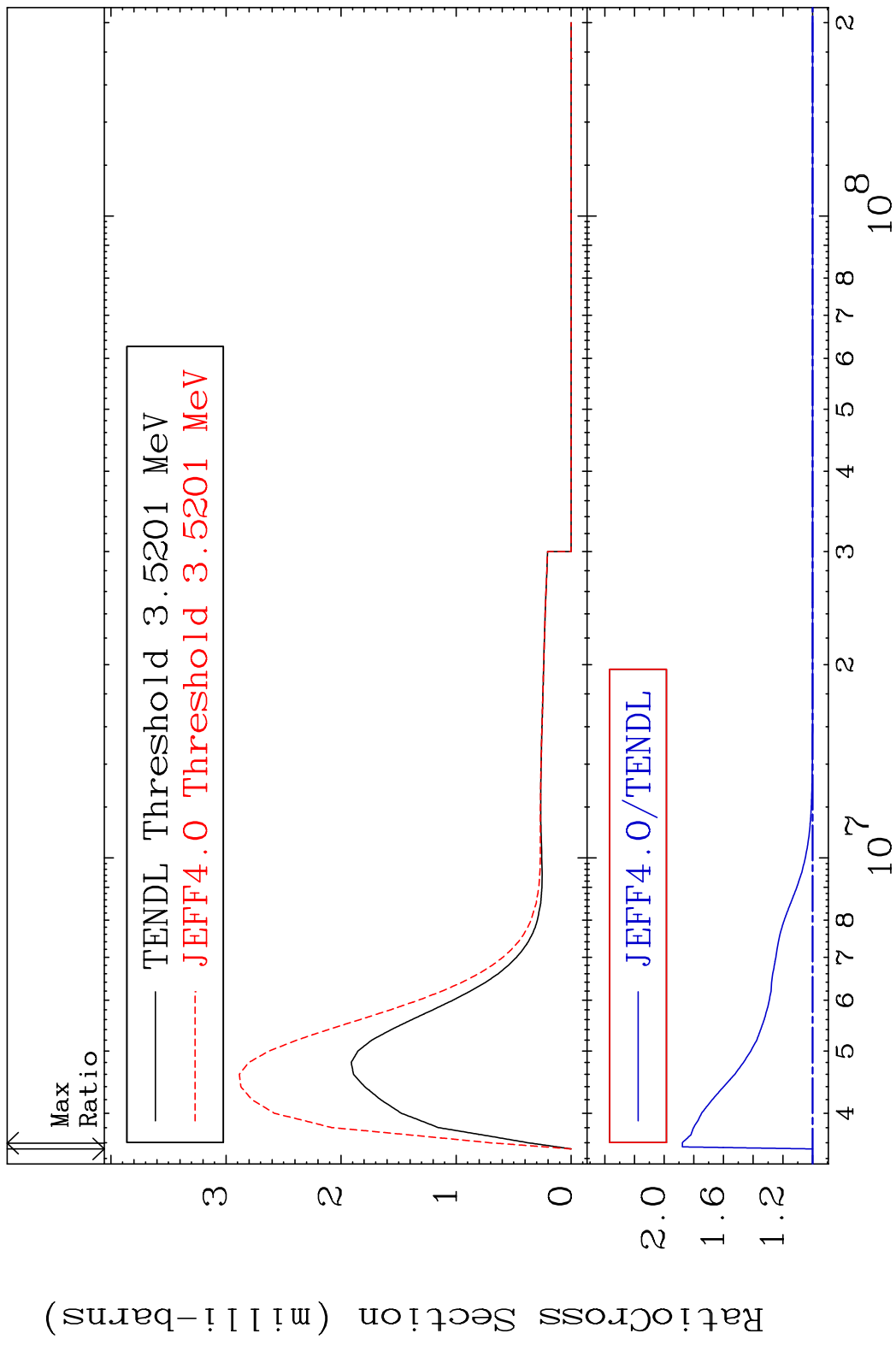
MAT 4043 MT= 76 (n,n') Level 40-Zr-96
 Cross Section 0.000 To 88.31 %



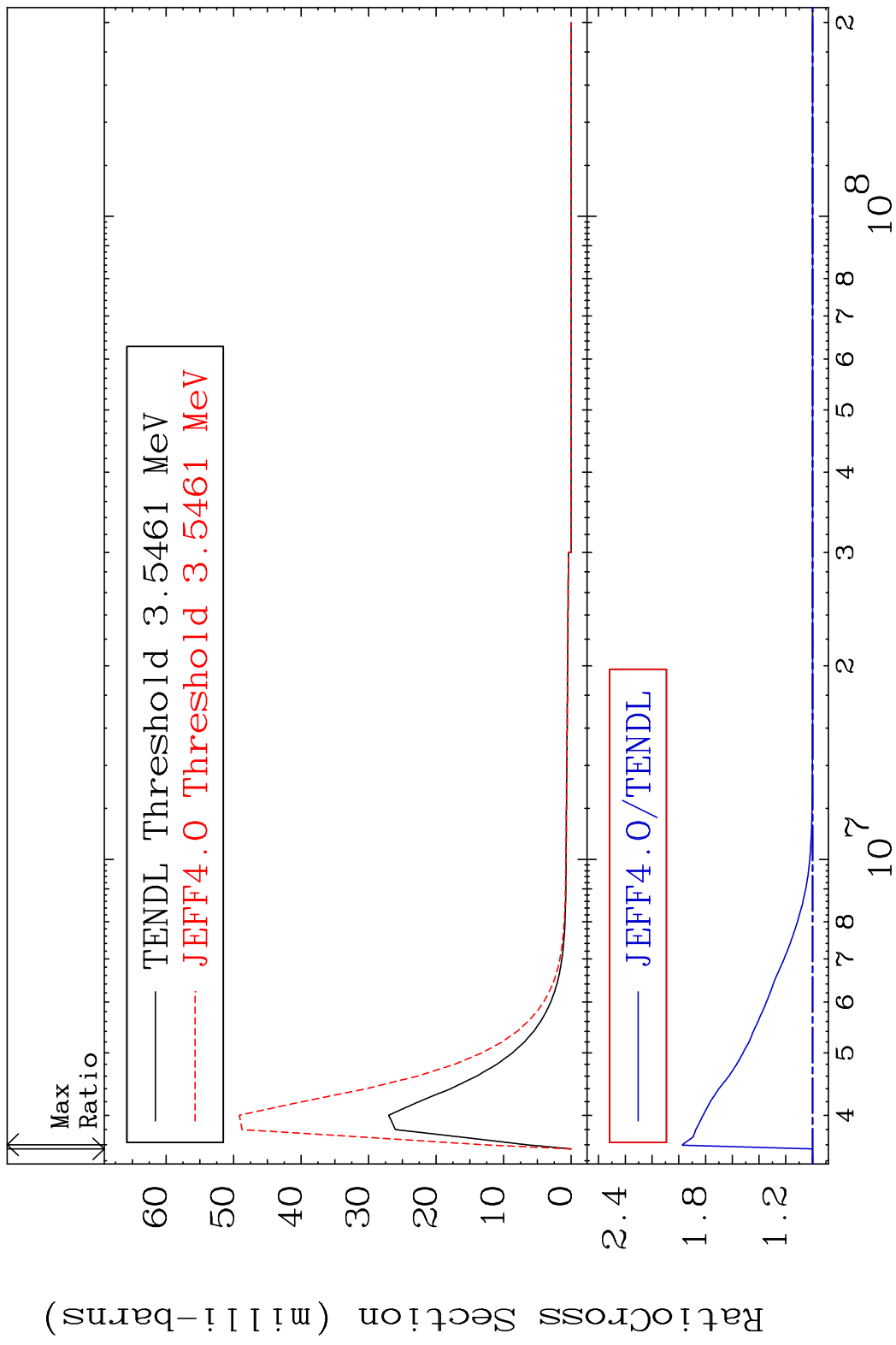
MAT 4043 MT= 77 (n,n') Level 40-Zr-96
 Cross Section 0.000 To 97.38 %



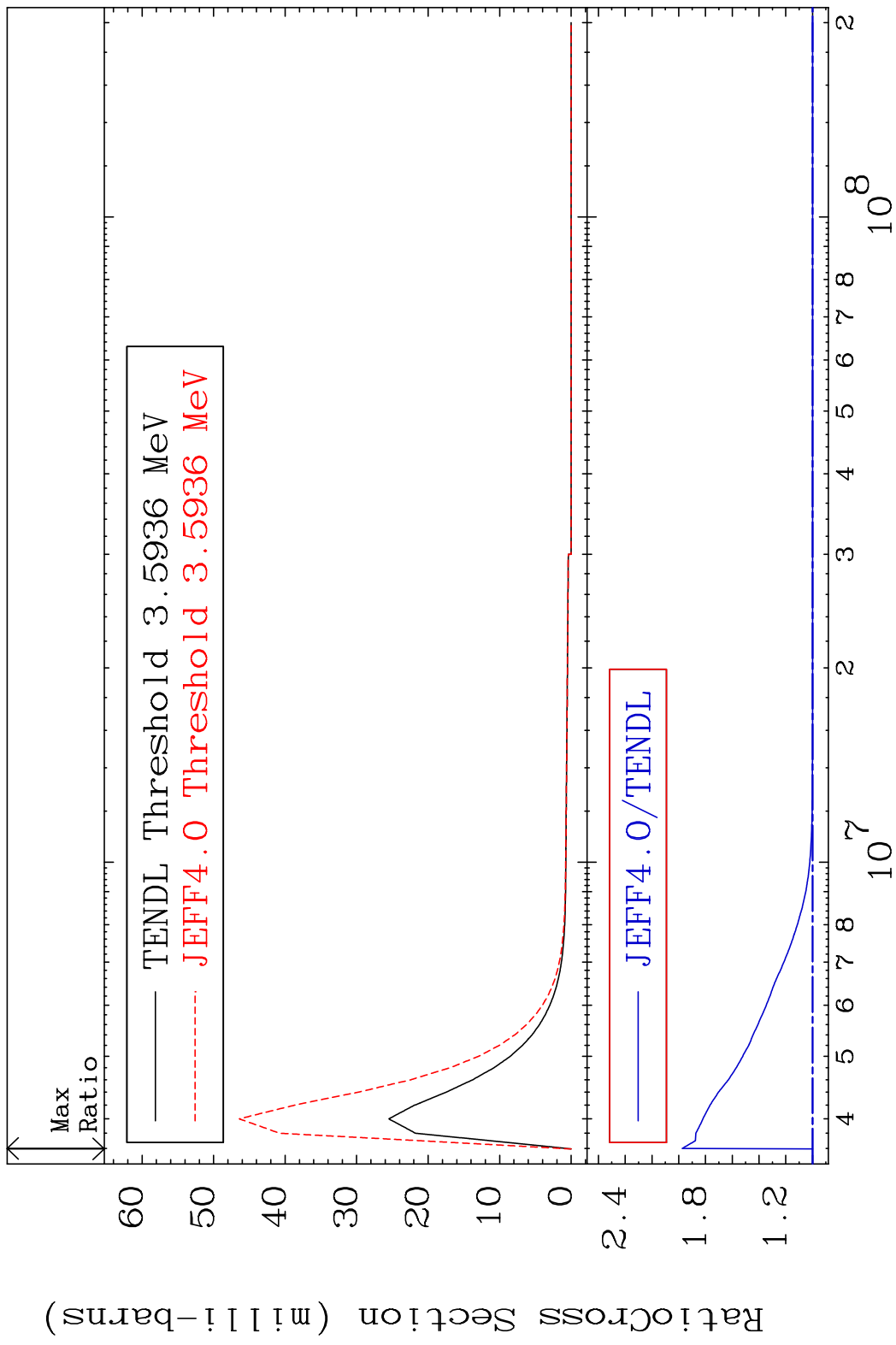
MAT 4043 MT= 78 (n,n') Level 40-Zr-96
 Cross Section 0.000 To 87.74 %



MAT 4043 MT= 79 (n, n') Level 40-Zr-96
 Cross Section 0.000 To 97.35 %



MAT 4043 MT= 80 (n, n') Level 40-Zr-96
 Cross Section 0.000 To 97.28 %

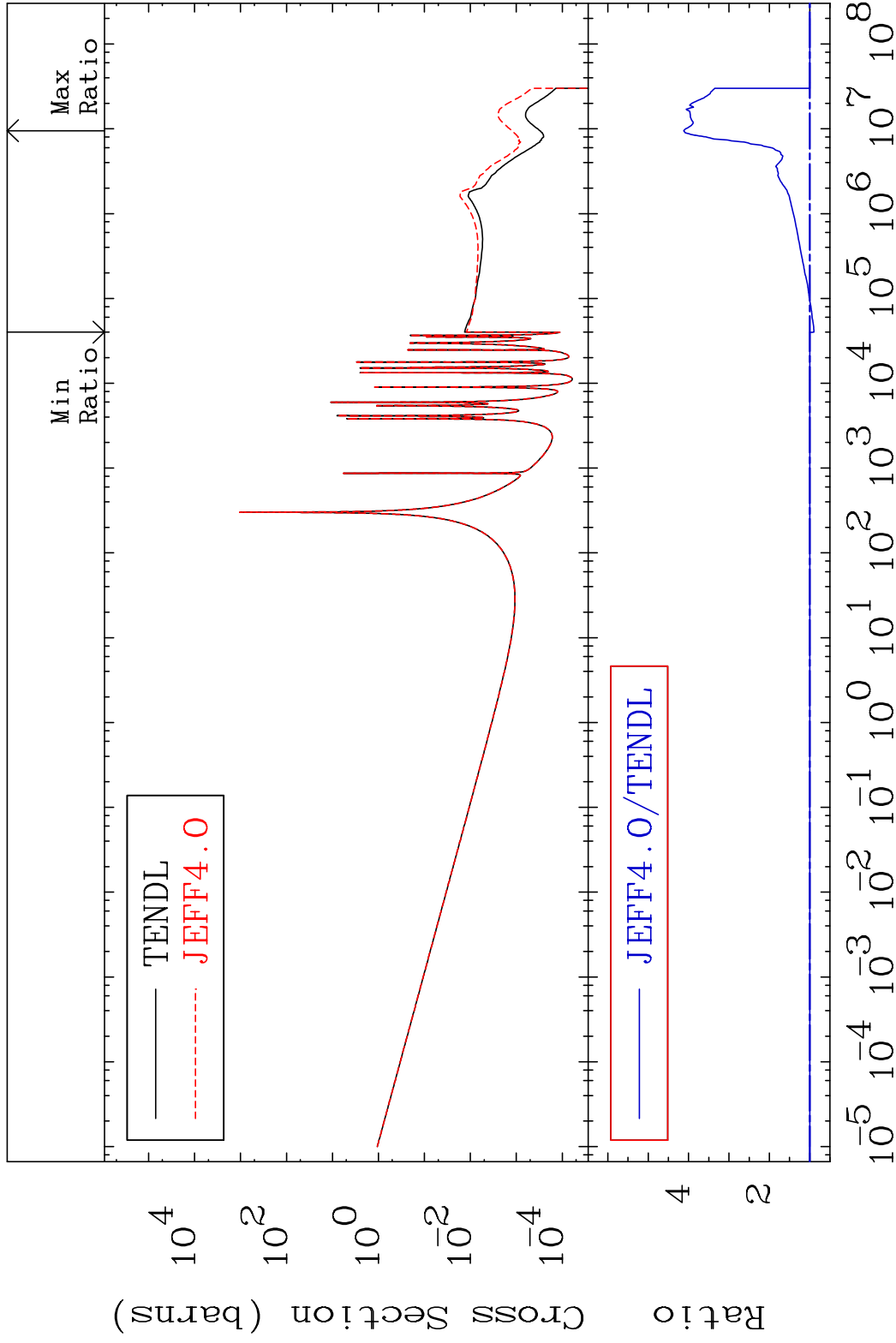


MAT 4043

(n, γ)

40-Zr-96

Cross Section -10.71 To 312.2 %

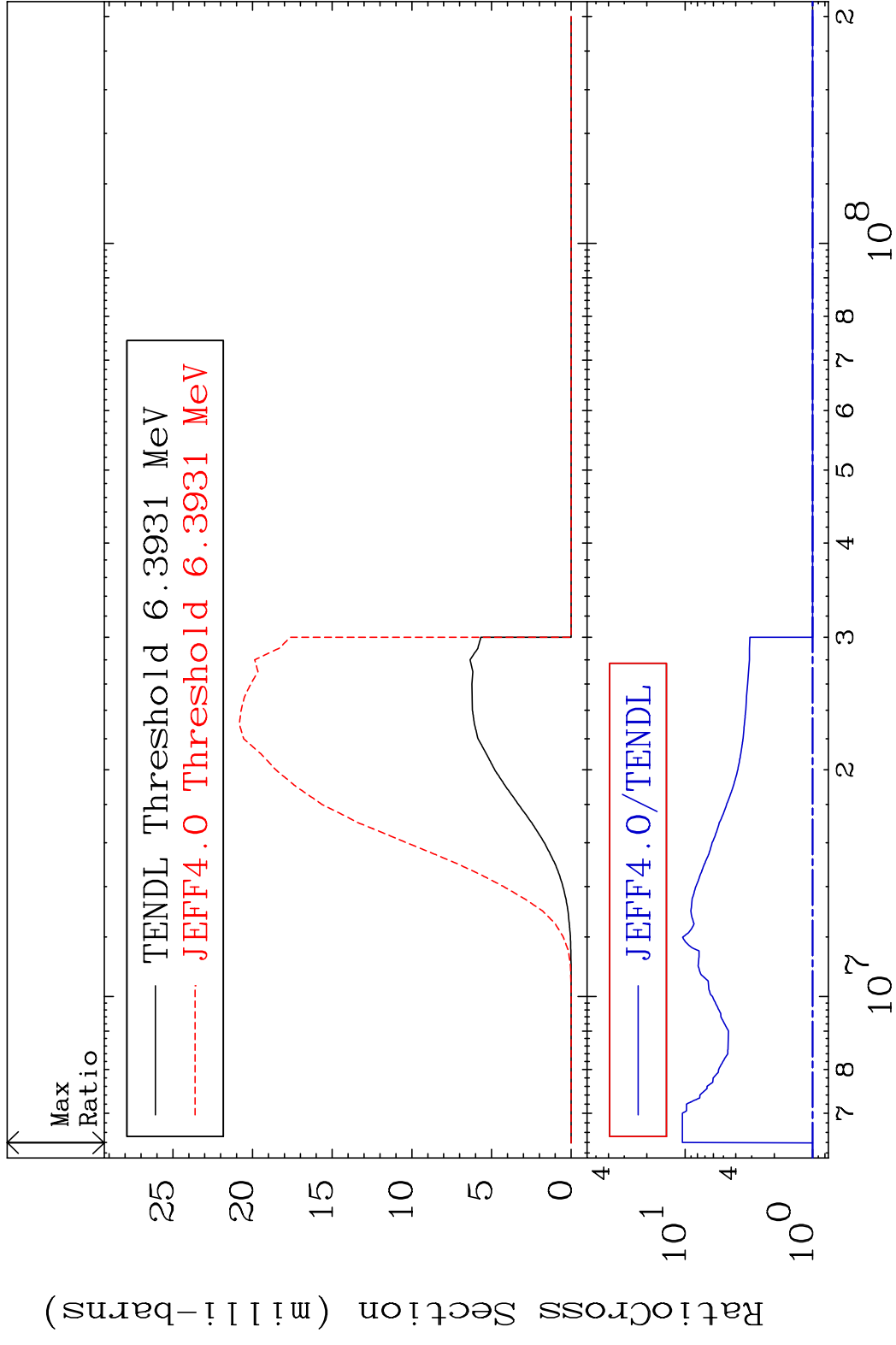


50

Incident Energy (eV)

40-Zr-96

MAT 4043 (n,p) 40-Zr-96
 Cross Section 0.000 To 951.4 %

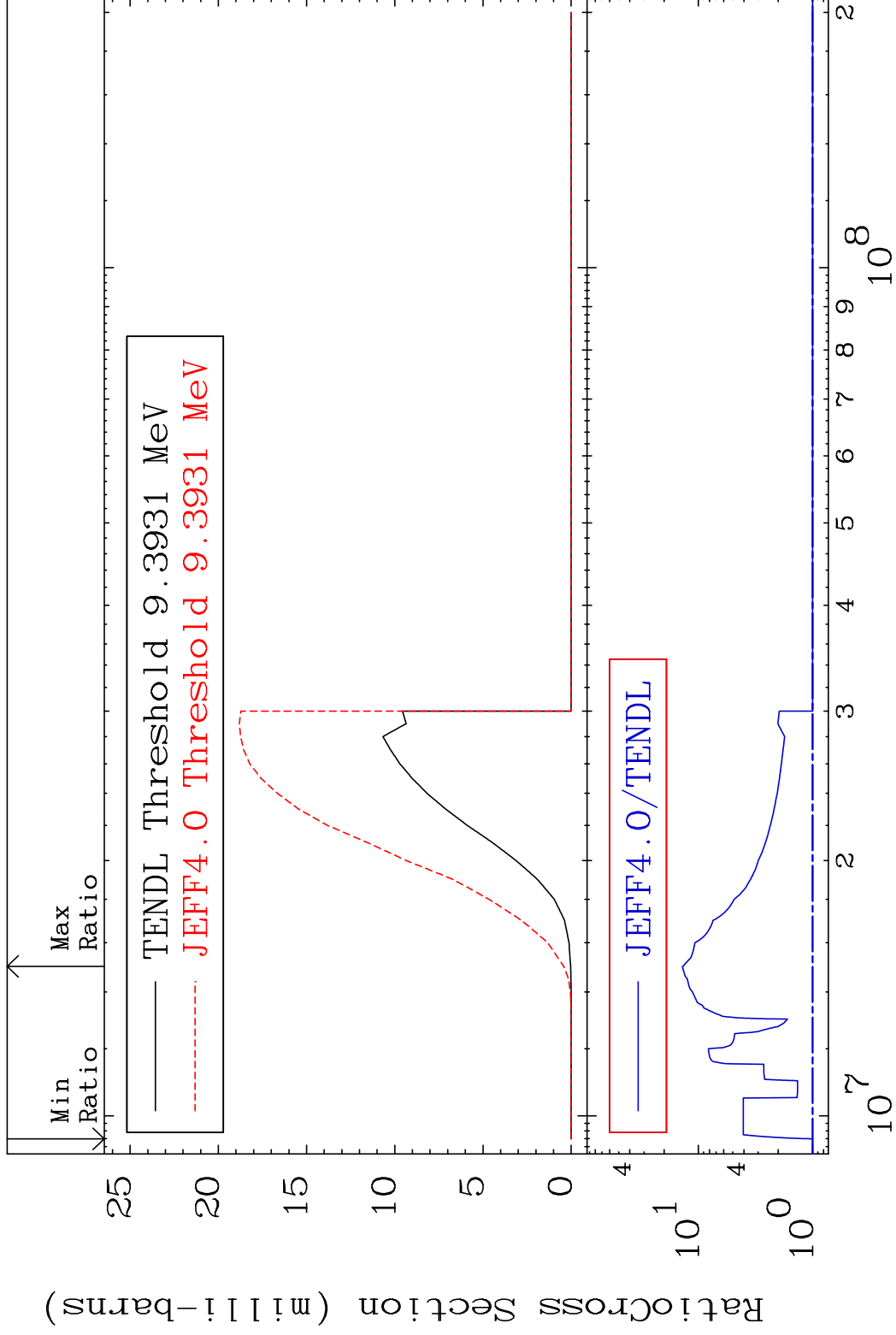


MAT 4043

(n, d)

40-Zr-96

Cross Section 0.000 To 1283. %

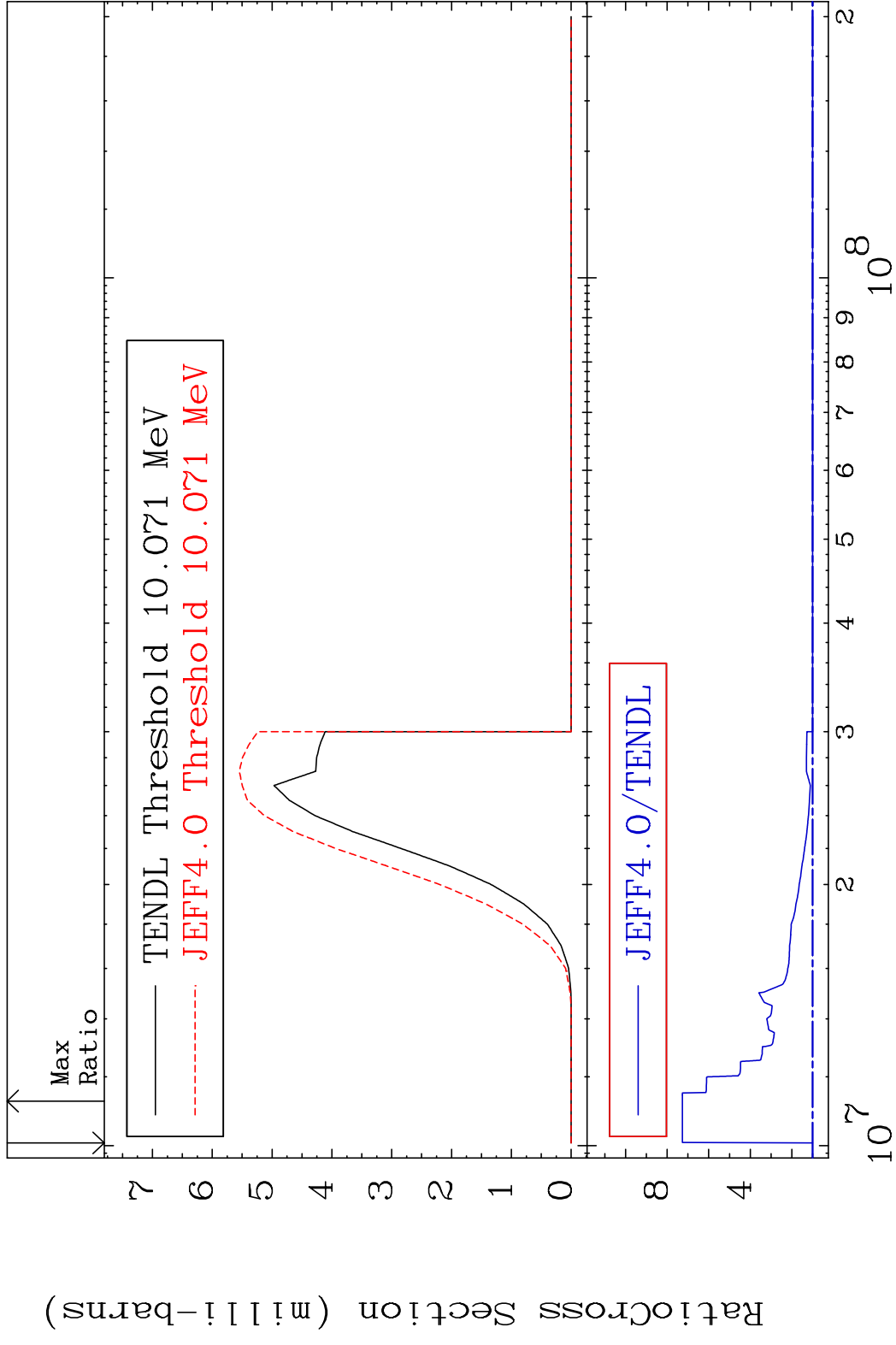


52

Incident Energy (eV)

40-Zr-96

MAT 4043 (n, t) 40-Zr-96
 Cross Section 0.000 To 627.0 %



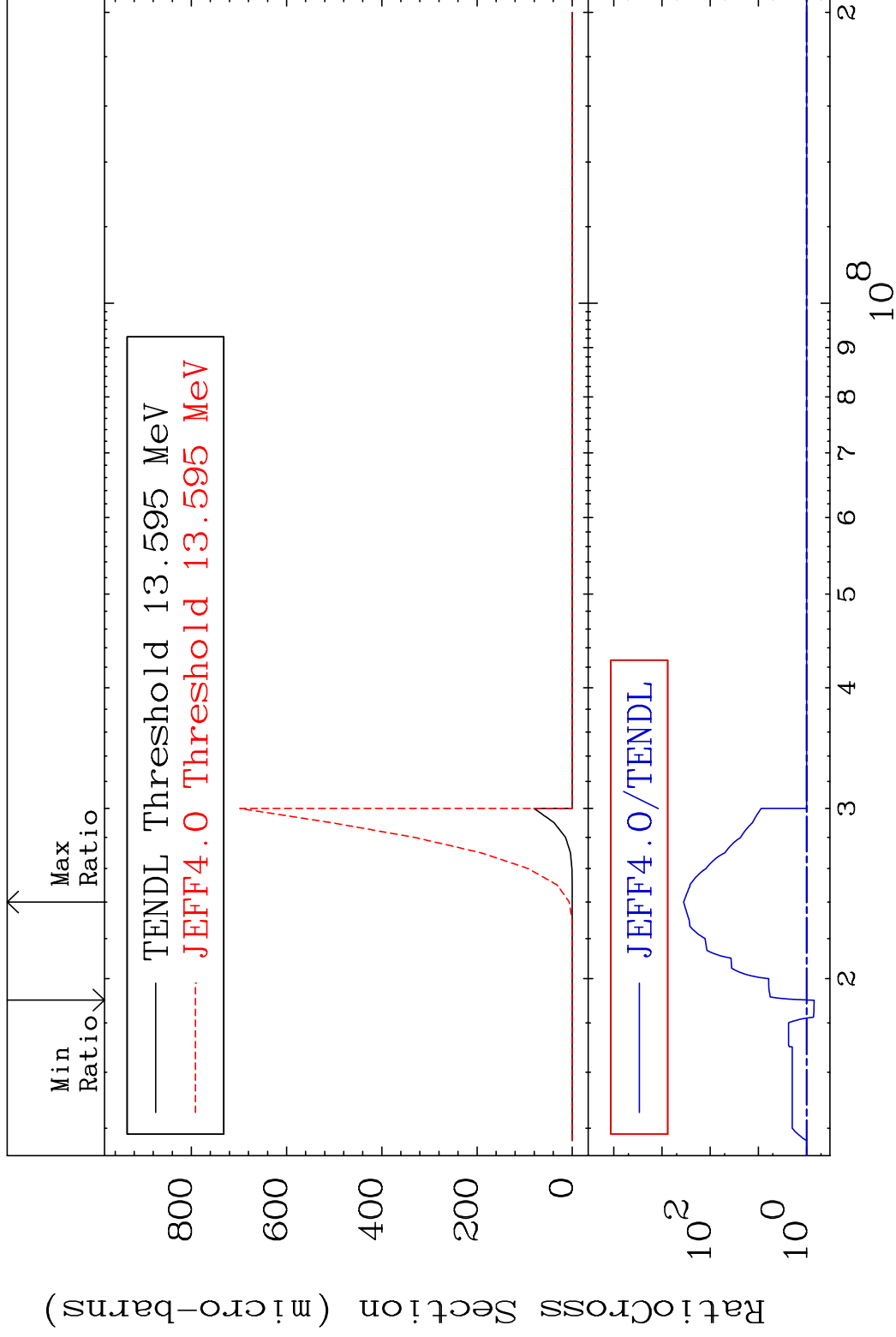
53 40-Zr-96

MAT 4043

(n, He-3)

40-Zr-96

Cross Section -30.42 To 9999. %



54

Incident Energy (eV)

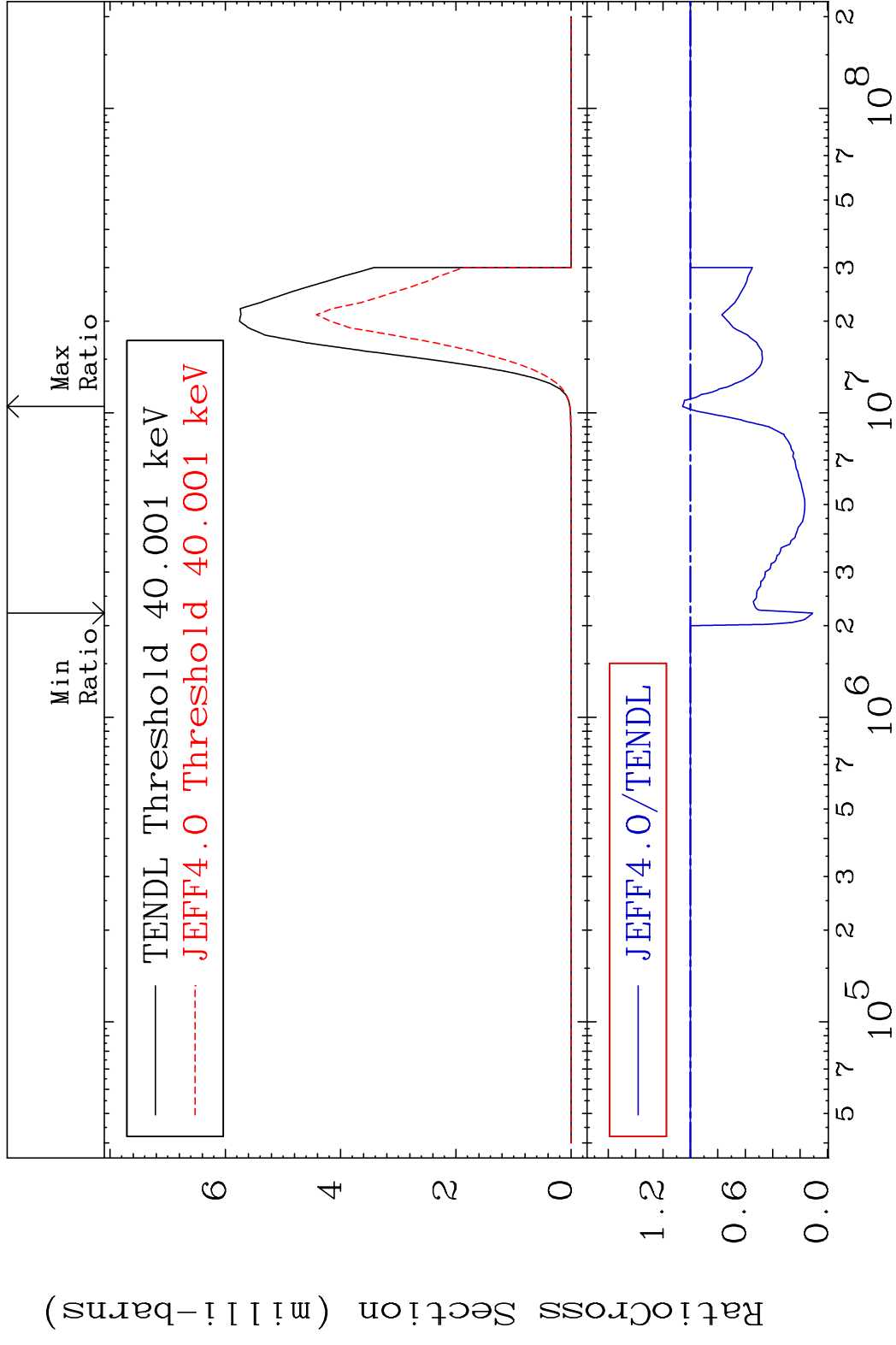
40-Zr-96

MAT 4043

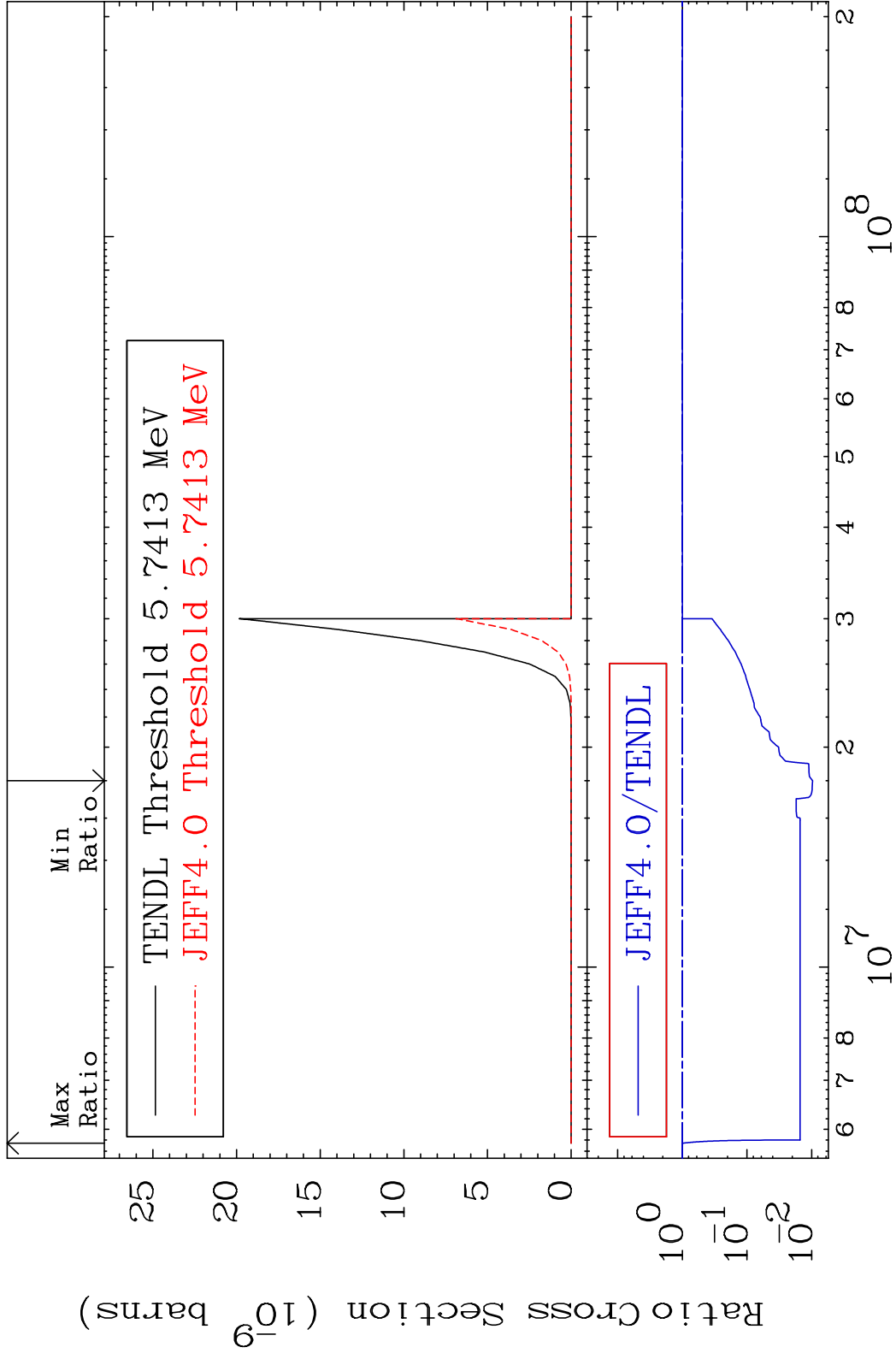
40-Zr-96

(n, α)

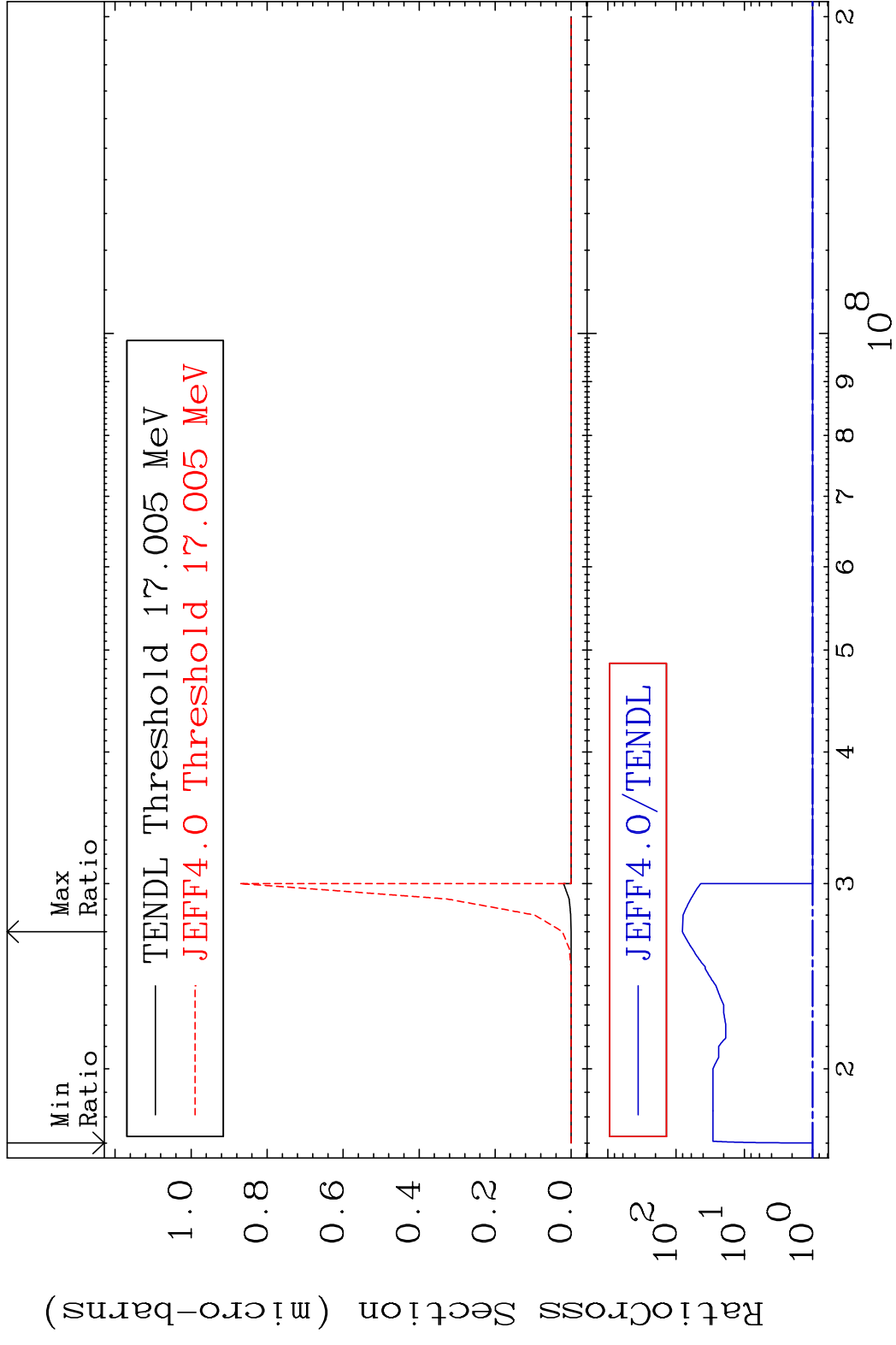
Cross Section -89.16 To 5.902 %



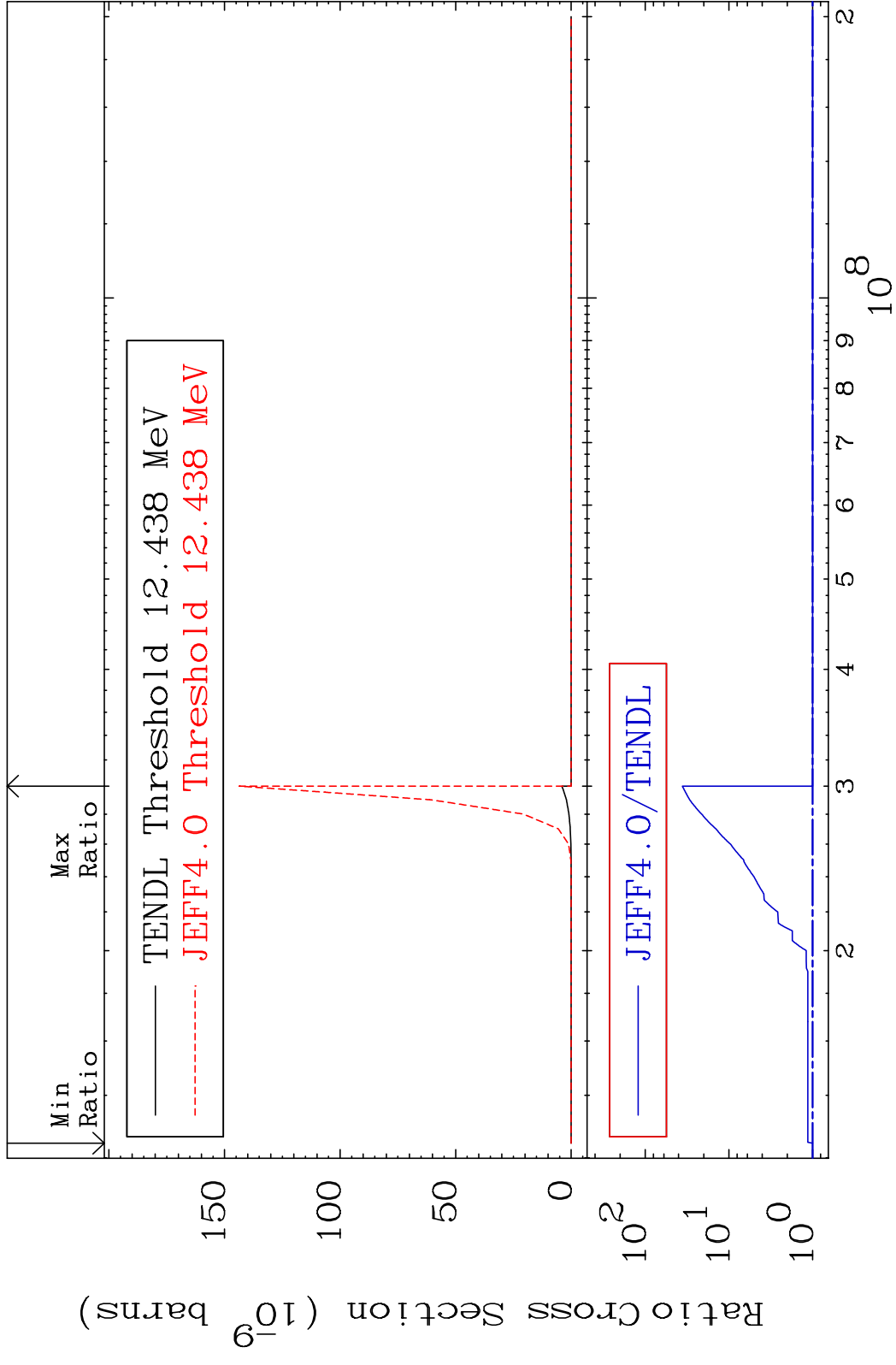
MAT 4043 (n,2α) 40-Zr-96
 Cross Section -99.03 To 0.000 %



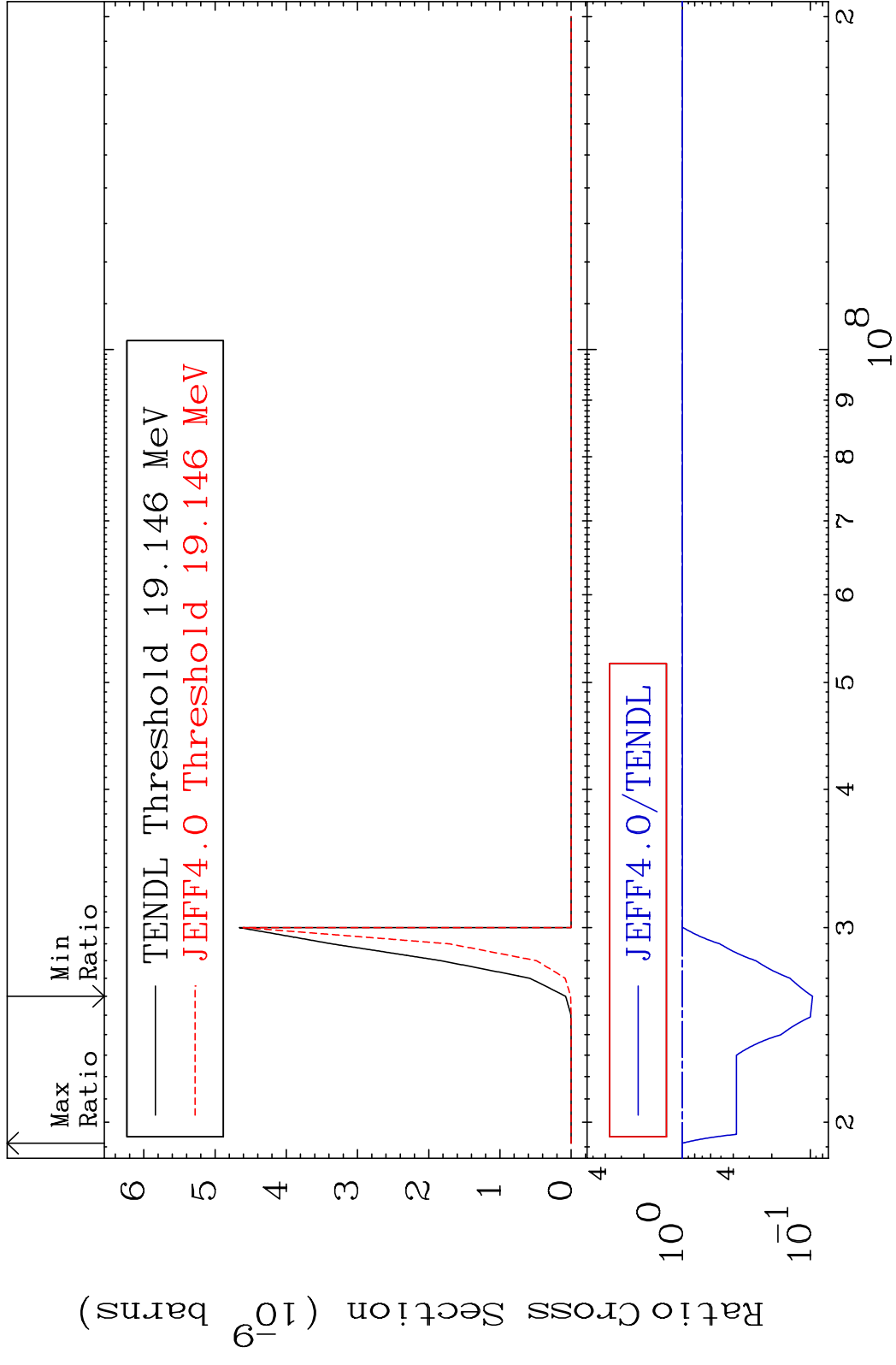
MAT 4043 (n,2p) 40-Zr-96
 Cross Section 0.000 To 7989. %



MAT 4043 (n,p) α 40-Zr-96
 Cross Section 0.000 To 3506. %



MAT 4043 (n,p) d 40-Zr-96
 Cross Section -90.40 To 0.000 %

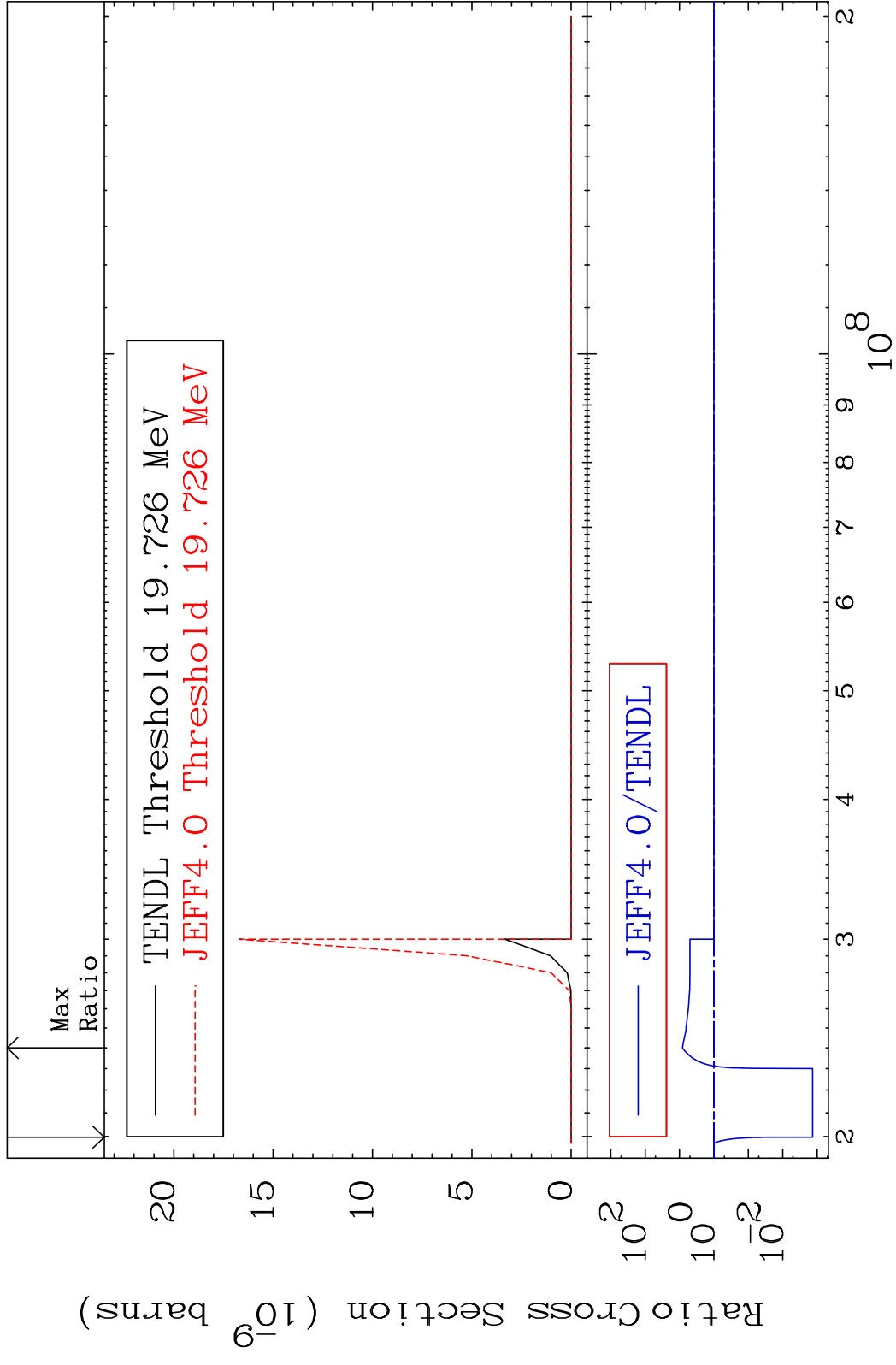


MAT 4043

(n,p) t

40-Zr-96

Cross Section -99.86 To 727.2 %

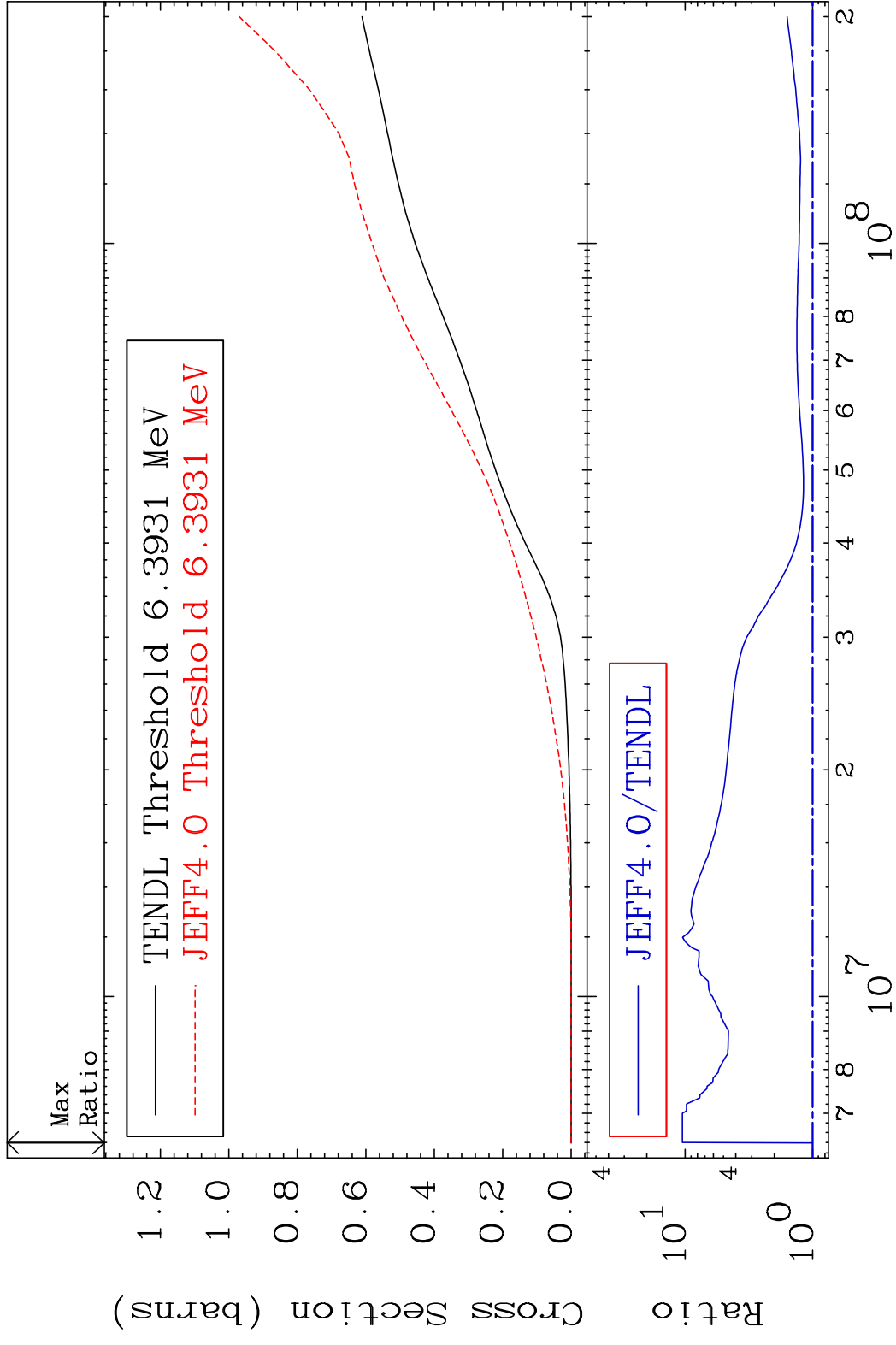


60

Incident Energy (eV)

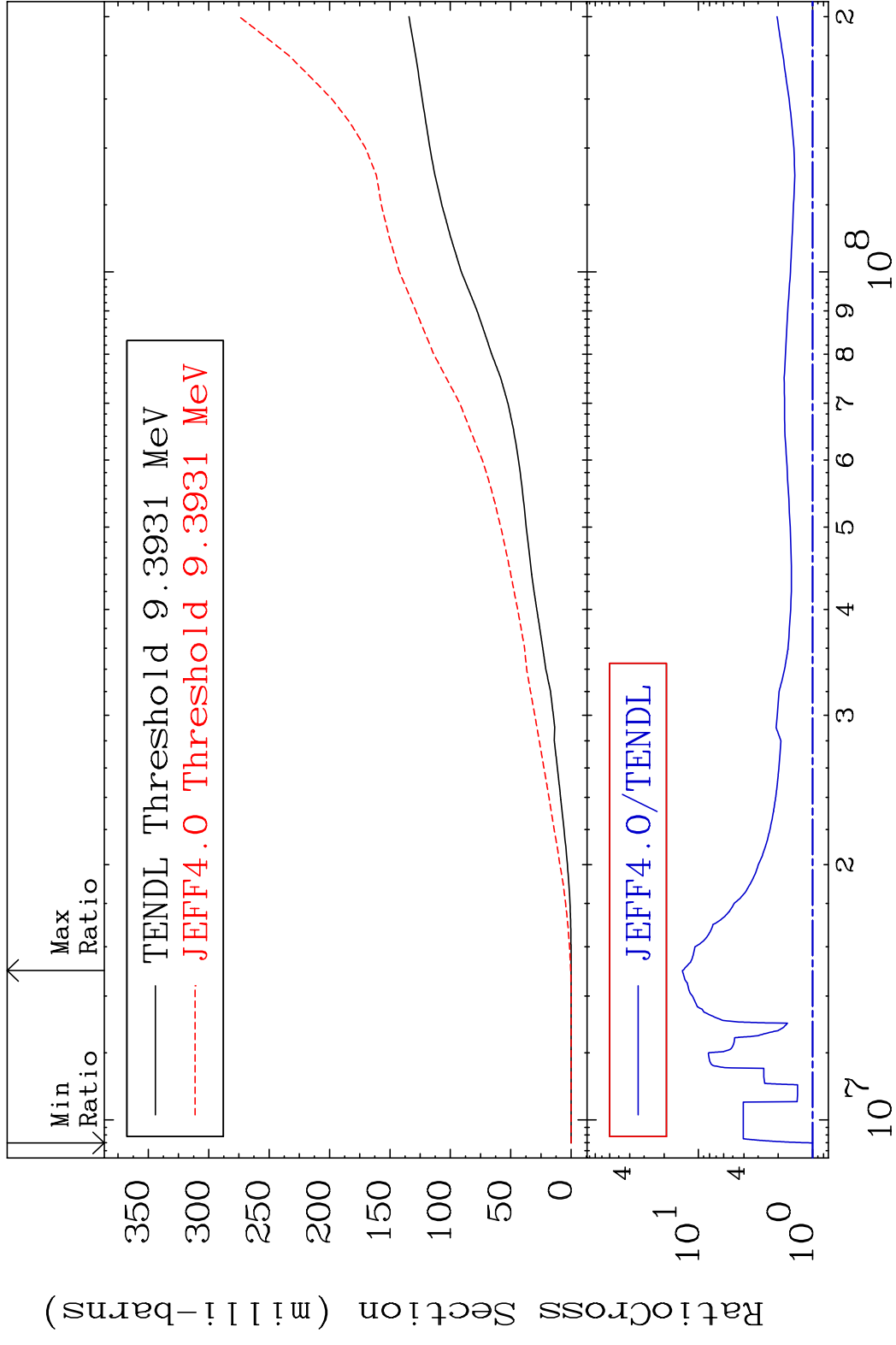
40-Zr-96

MAT 4043 Hydrogen Production 40-Zr-96
 Cross Section 0.000 To 951.4 %



61 Incident Energy (eV) 40-Zr-96

MAT 4043 Deuterium Production 40-Zr-96
 Cross Section 0.000 To 1283. %



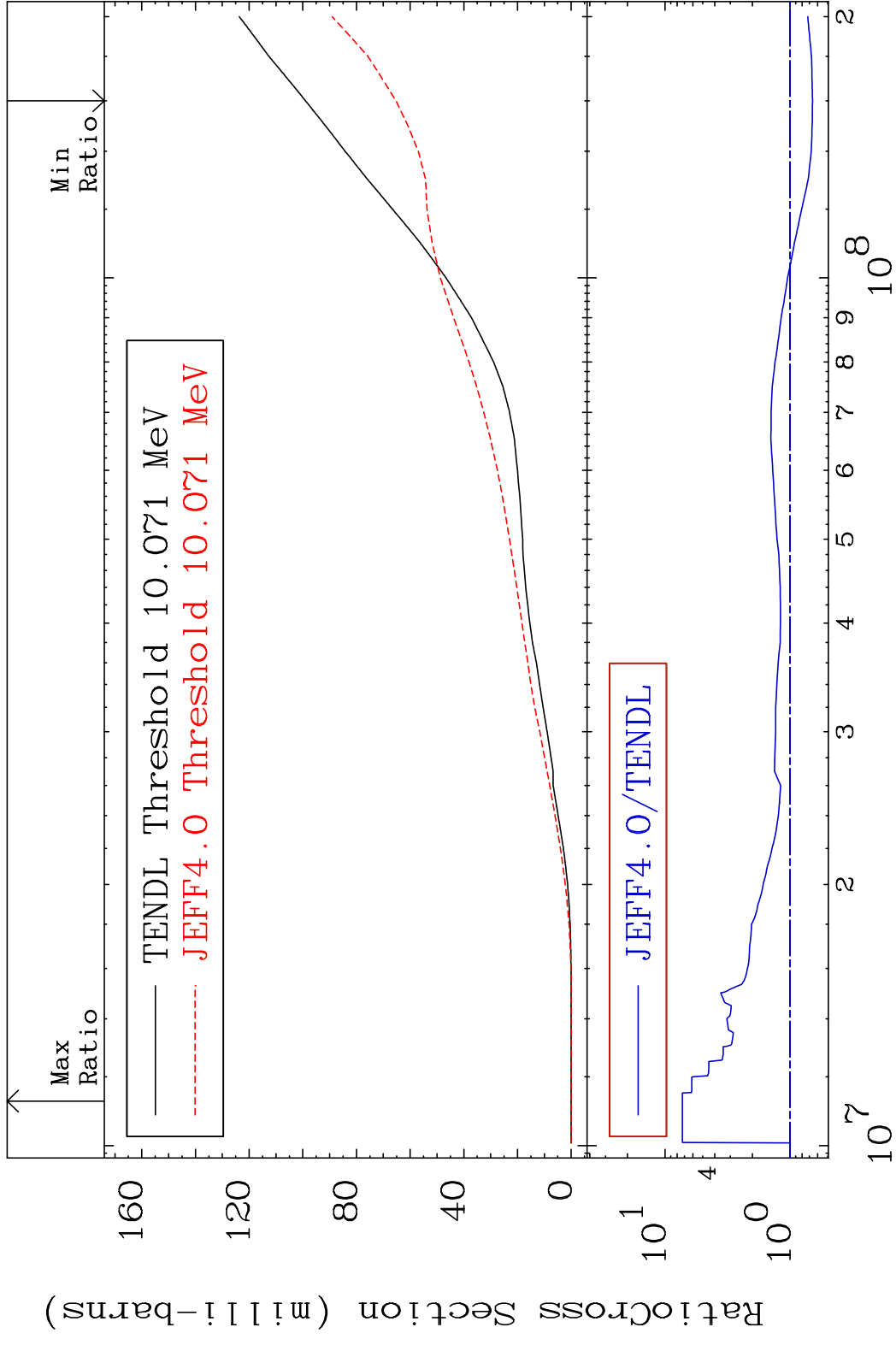
62 Incident Energy (eV) 40-Zr-96

MAT 4043

Tritium Production

40-Zr-96

Cross Section -34.02 To 627.0 %



63

Incident Energy (eV)

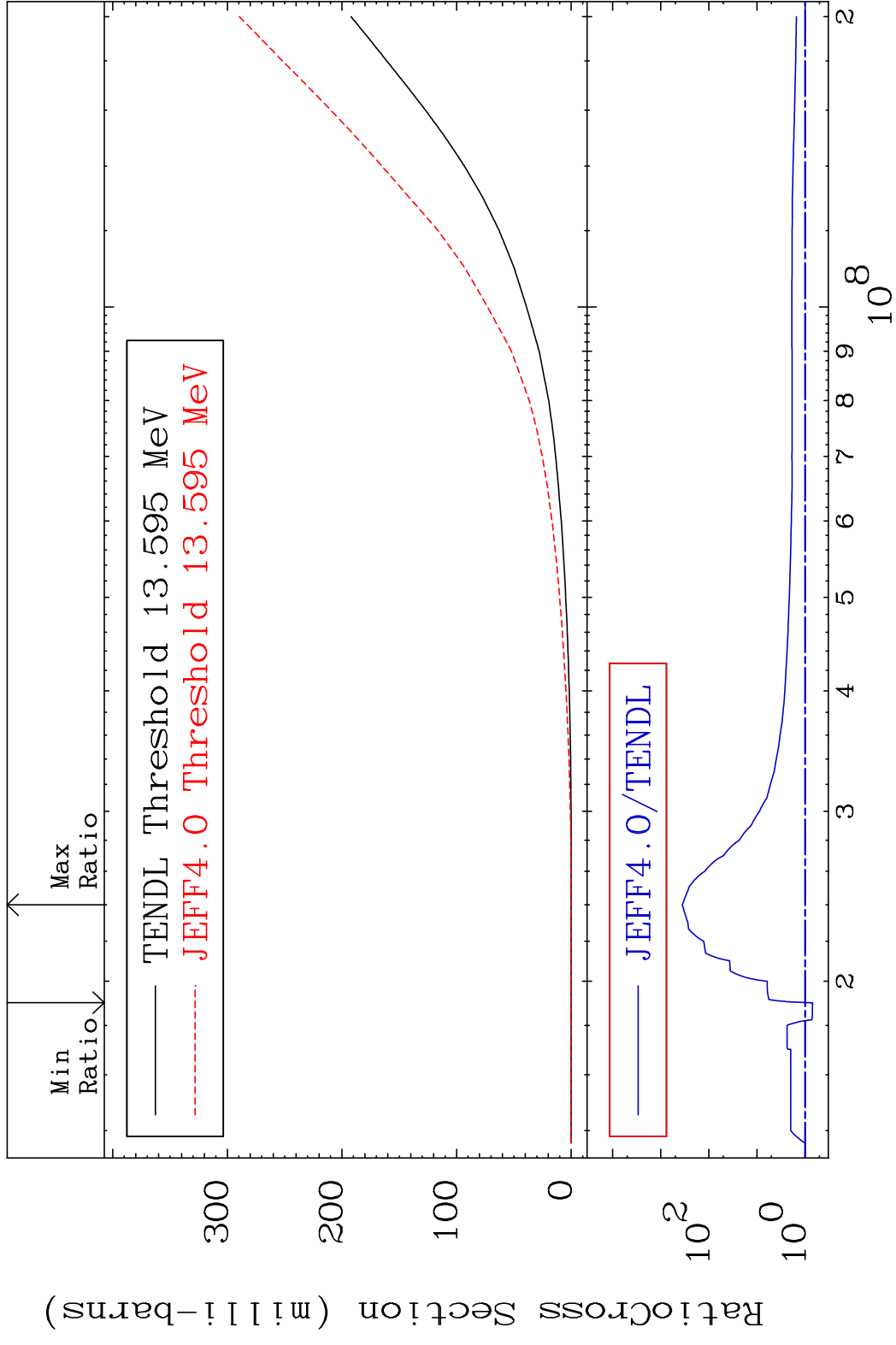
40-Zr-96

MAT 4043

He-3 Production

40-Zr-96

Cross Section -30.42 To 9999. %



64

Incident Energy (eV)

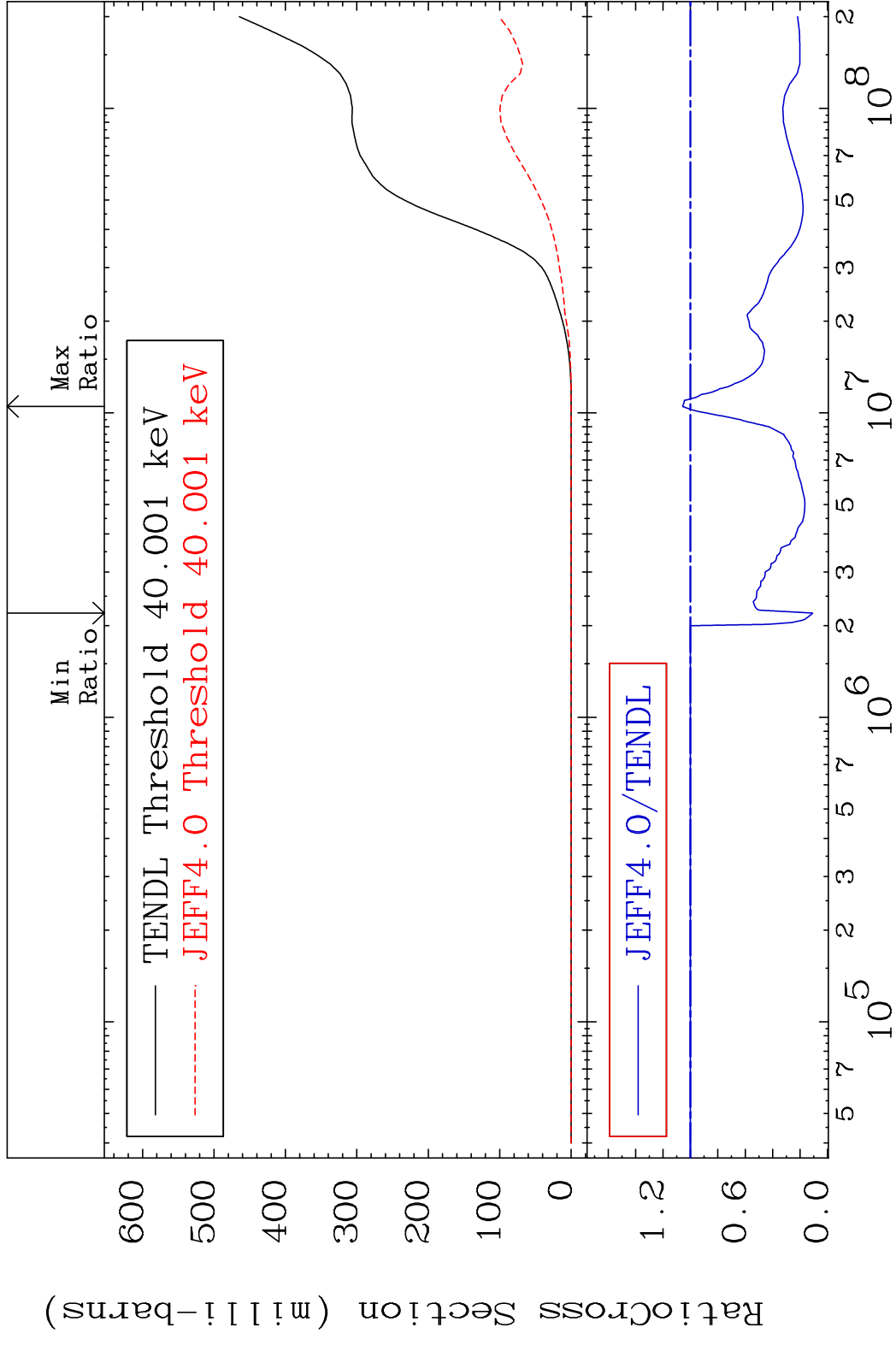
40-Zr-96

MAT 4043

He-4 Production

40-Zr-96

Cross Section -89.16 To 5.900 %



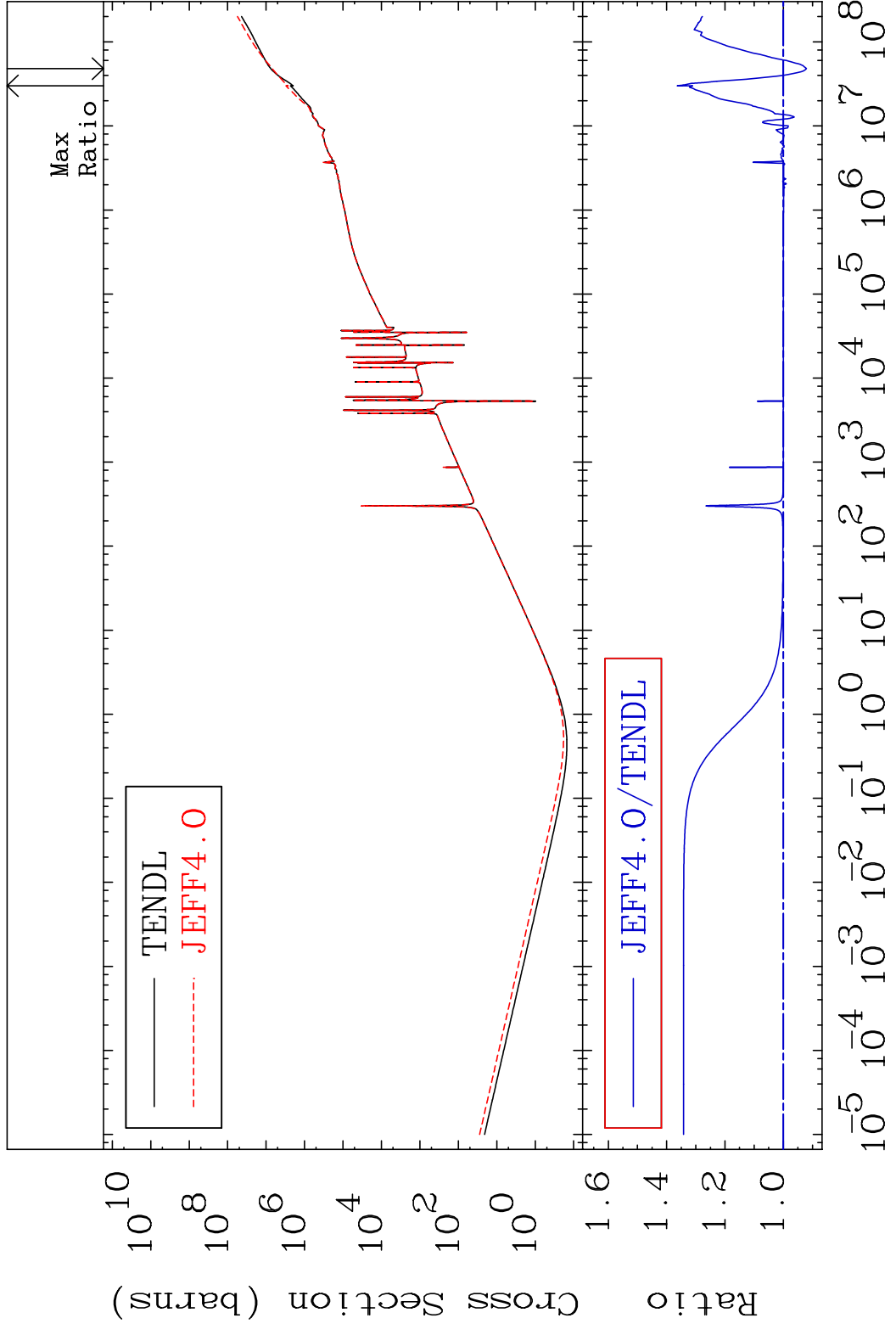
65

Incident Energy (eV)

40-Zr-96

MAT 4043

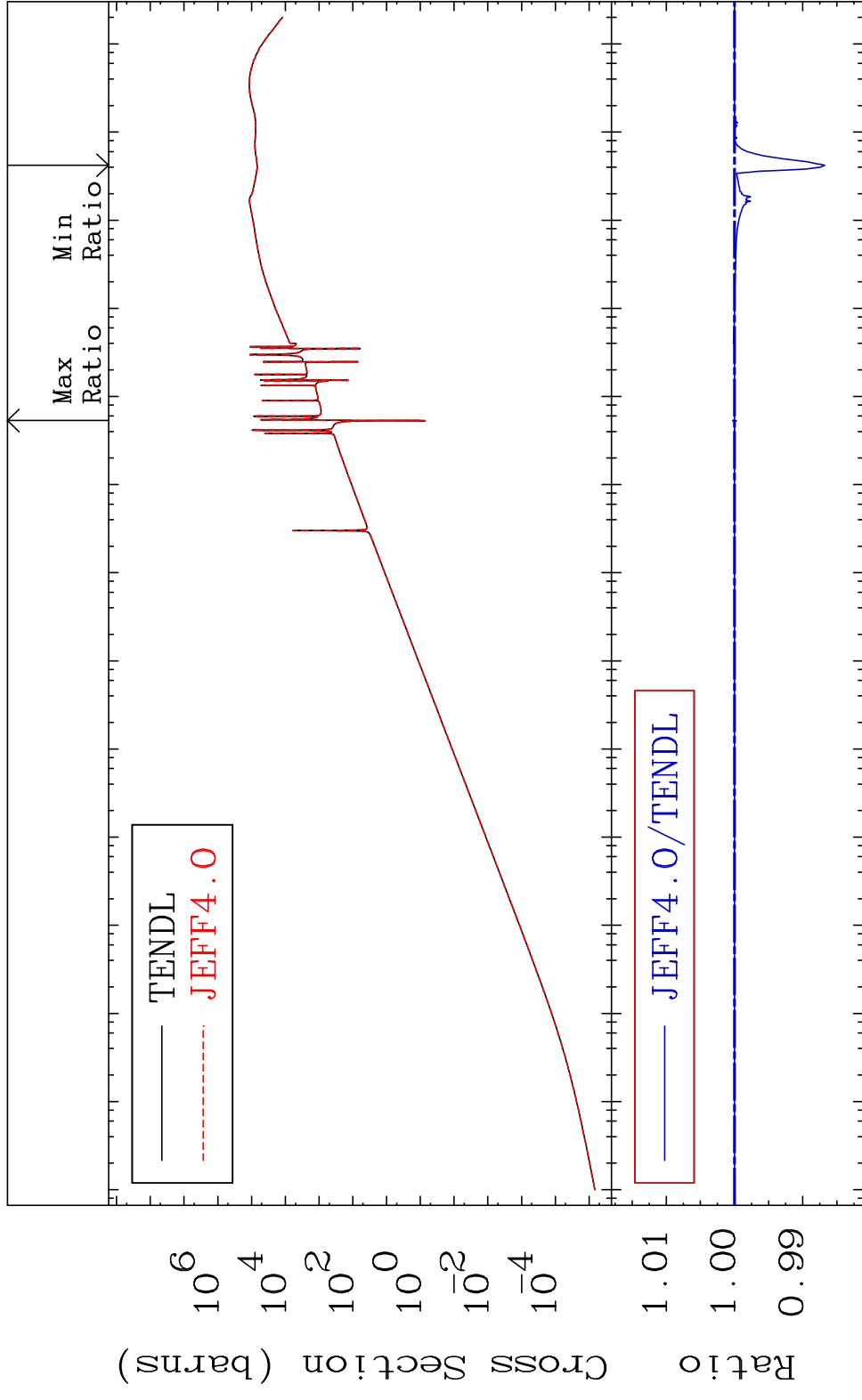
Kerma total (eV-barns) 40-Zr-96
Cross Section -7.912 To 36.39 %



MAT 4043

Kerma elastic
Cross Section

40-Zr-96
-1.321 To 0.031 %

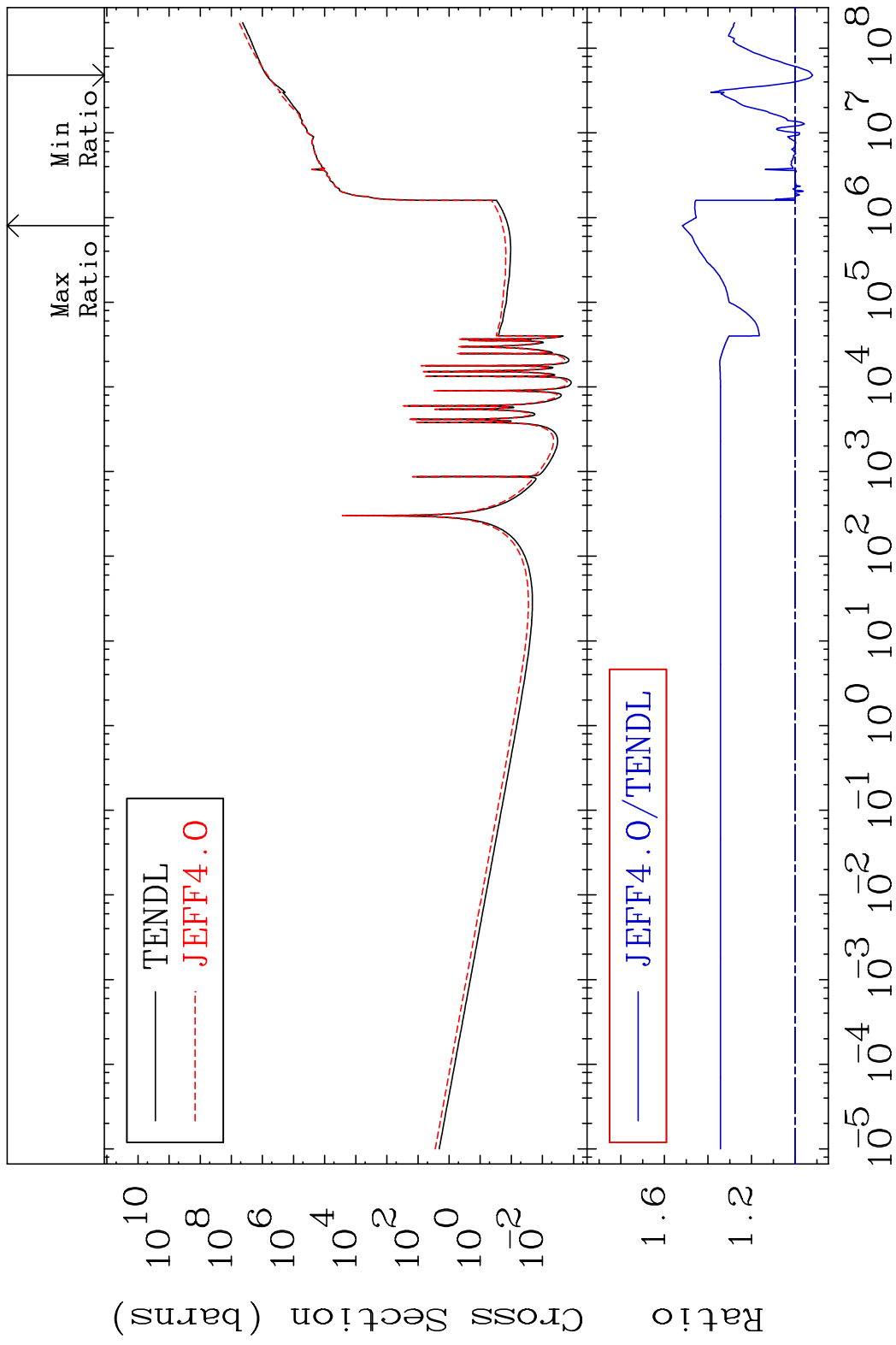


67

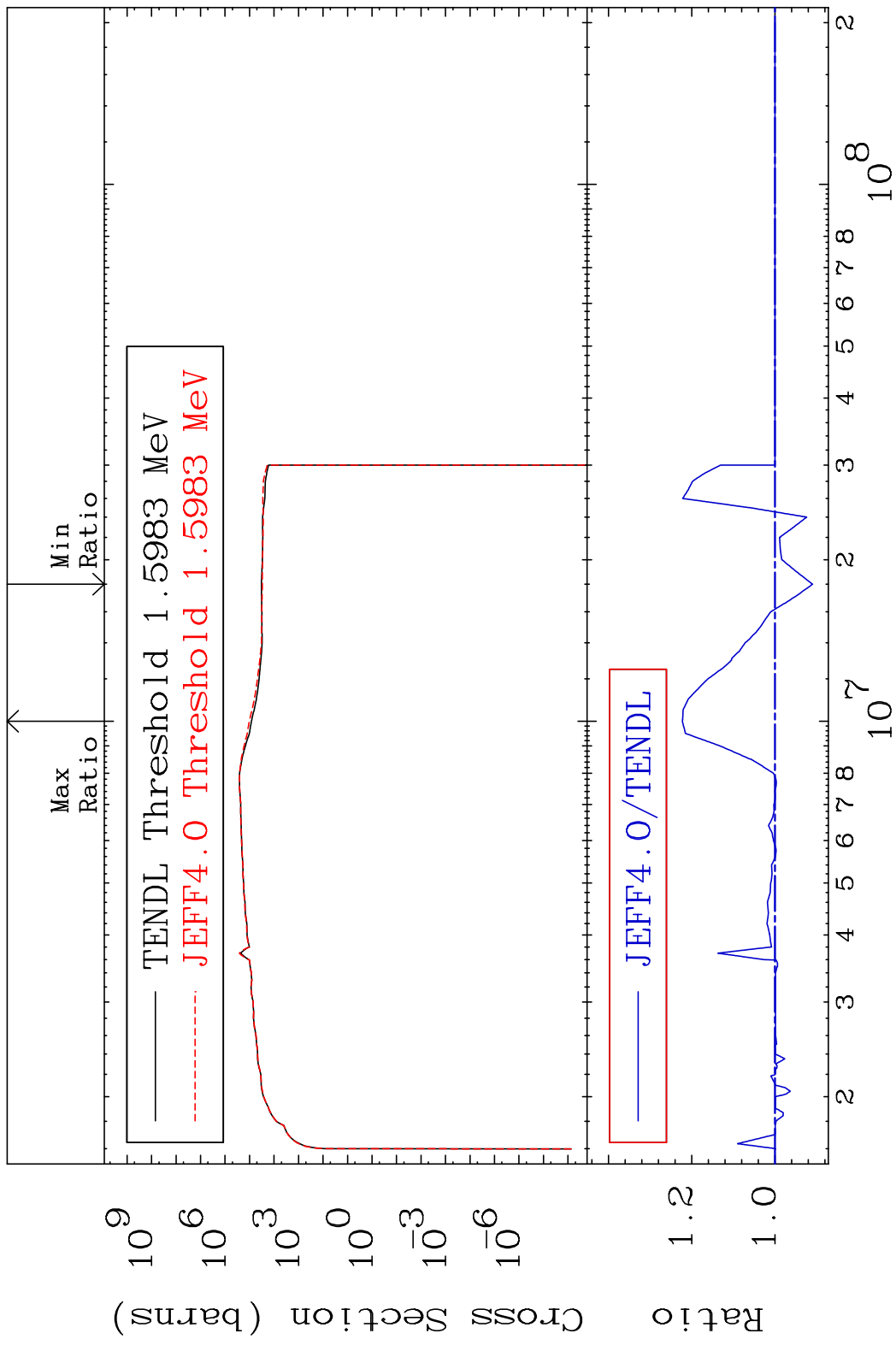
Incident Energy (eV)

40-Zr-96

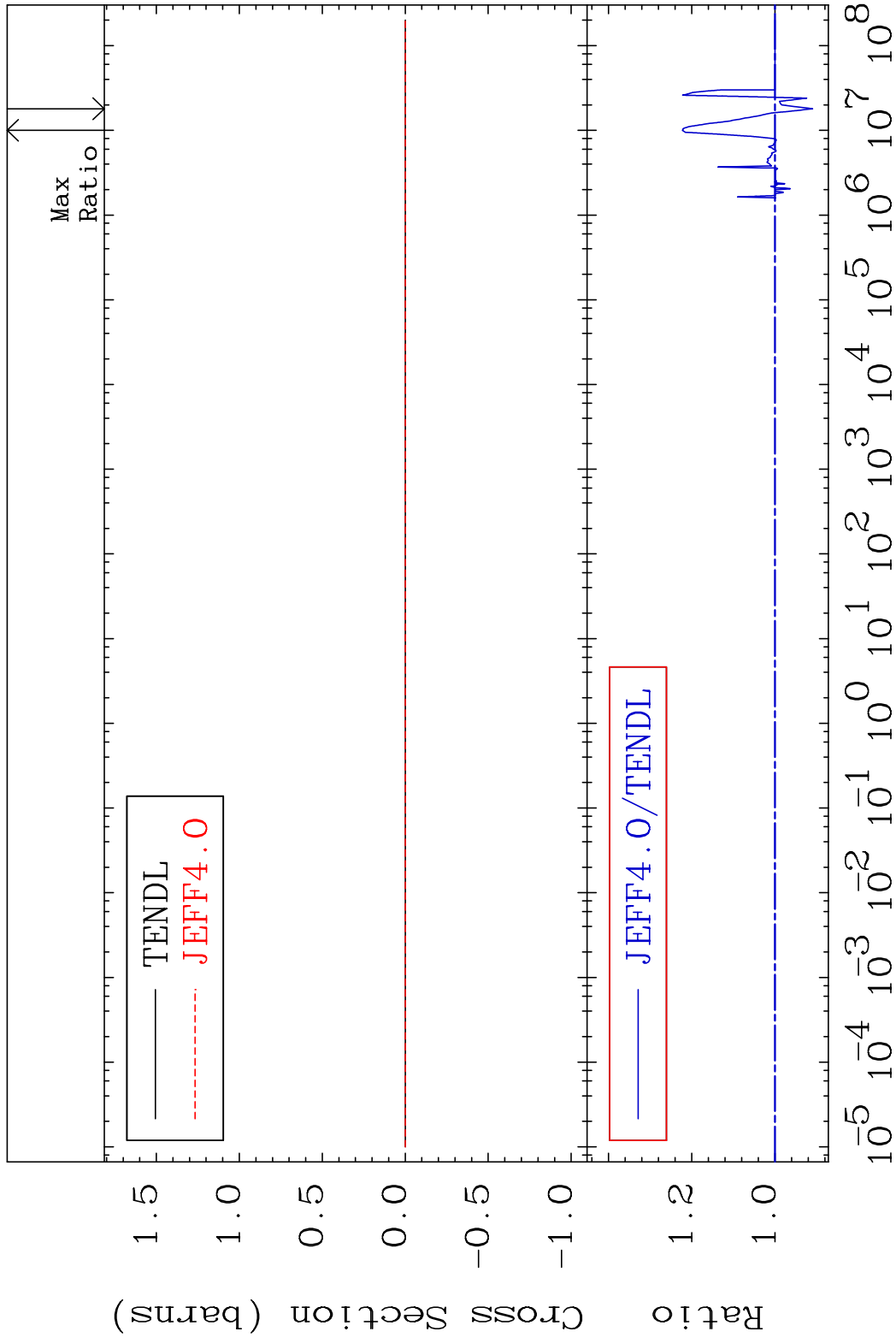
MAT 4043 Kerma non-elastic (all but mt2) 40-Zr-96
 Cross Section -8.027 To 51.76 %



MAT 4043 Kerma inelastic (mt51-91) 40-Zr-96
 Cross Section -9.039 To 22.24 %



MAT 4043 Kerma fission (mt18 or mt19-20-21-38) 40-Zr-96
 Cross Section -9.039 To 22.24 %



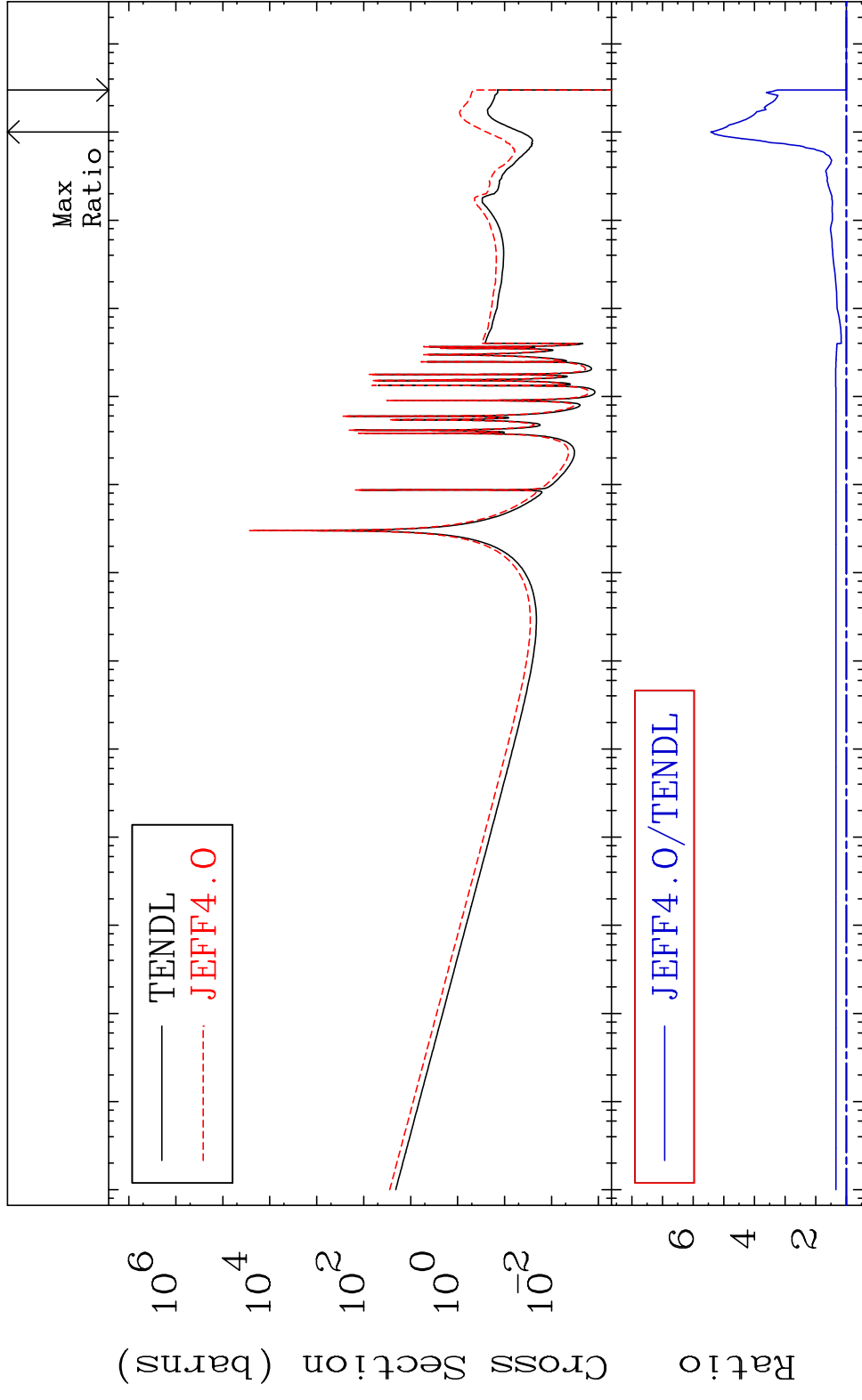
70 Incident Energy (eV) 40-Zr-96

MAT 4043

Kerma capture (mt102)

40-Zr-96

Cross Section 0.000 To 442.5 %



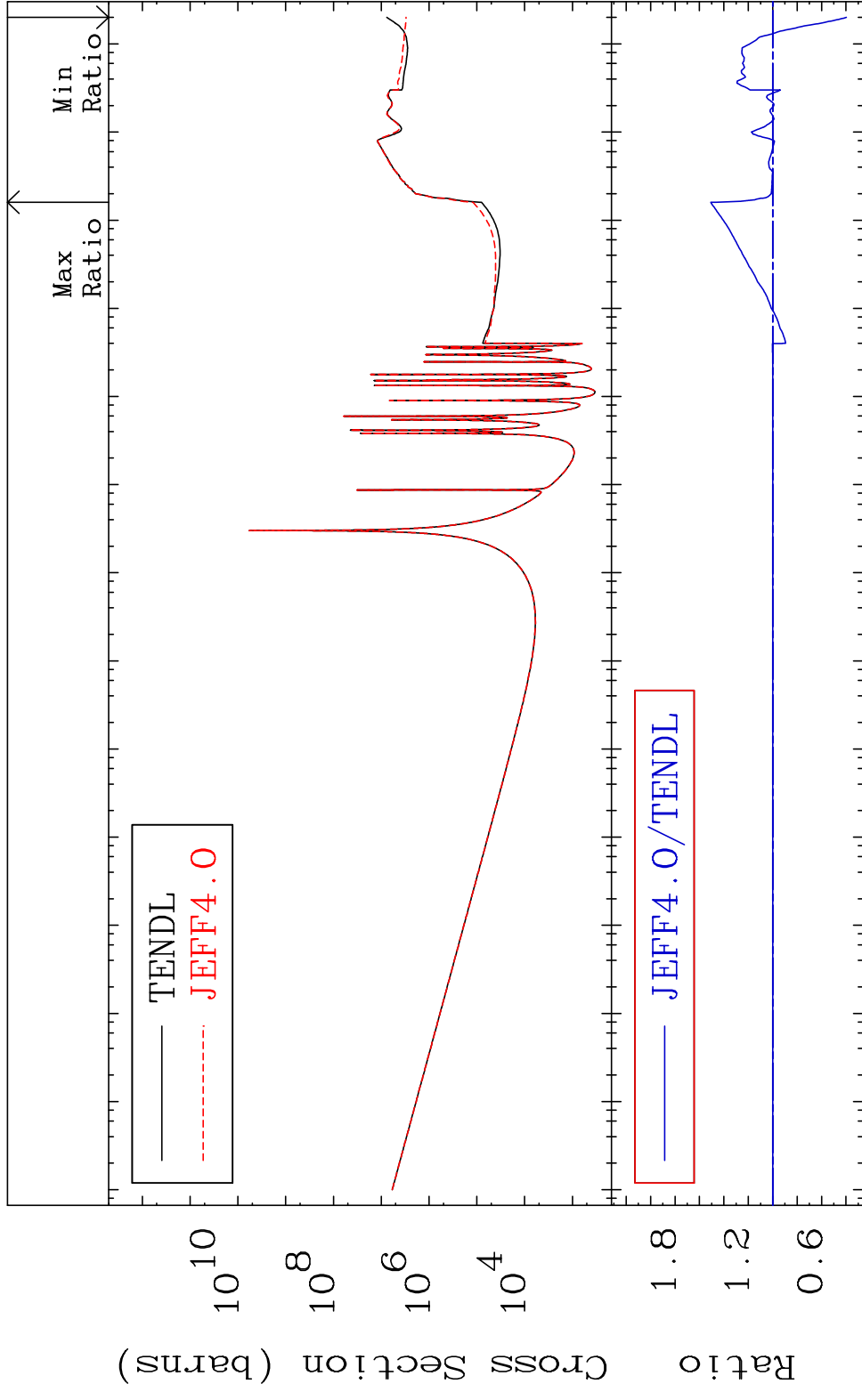
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

71

Incident Energy (eV)

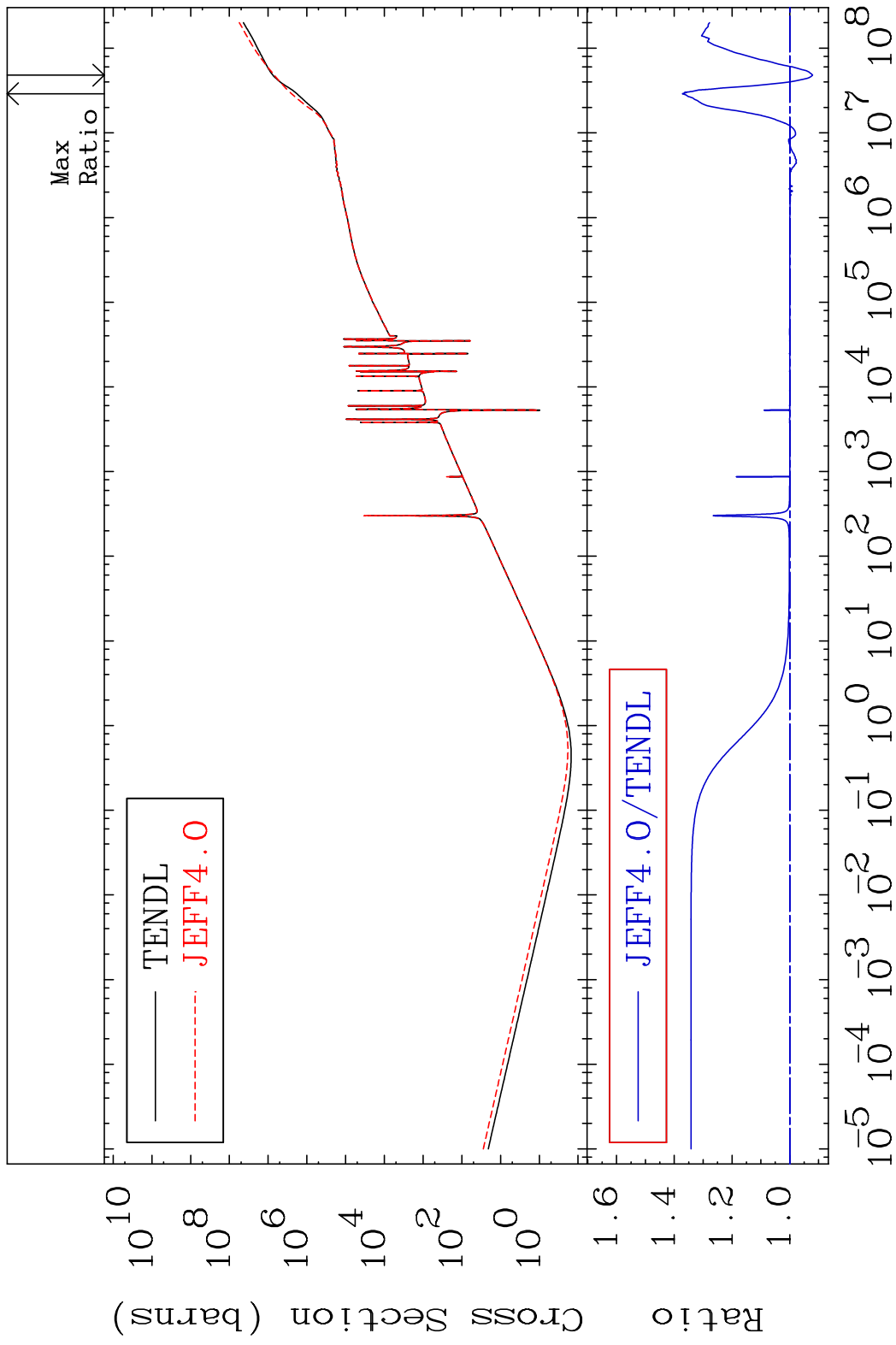
40-Zr-96

MAT 4043 Total photon (eV-barns) 40-Zr-96
 Cross Section -60.25 To 50.77 %



72 Incident Energy (eV) 40-Zr-96

MAT 4043 Total kinematic kerma (high limit) 40-Zr-96
 Cross Section -7.912 To 37.20 %



73

Incident Energy (eV)

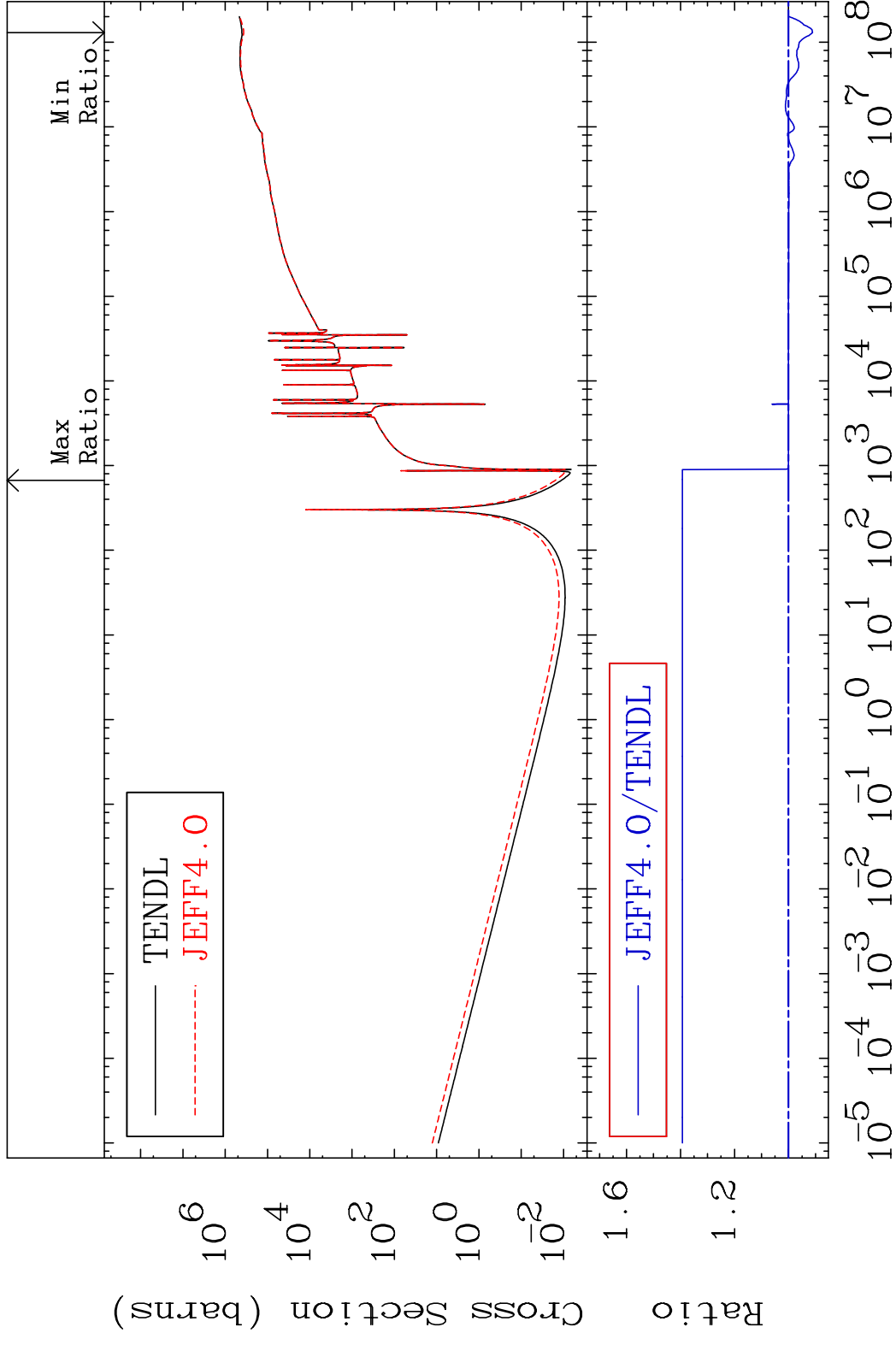
40-Zr-96

MAT 4043

Dpa total (eV-barns)

40-Zr-96

Cross Section -8.895 To 39.32 %



74

Incident Energy (eV)

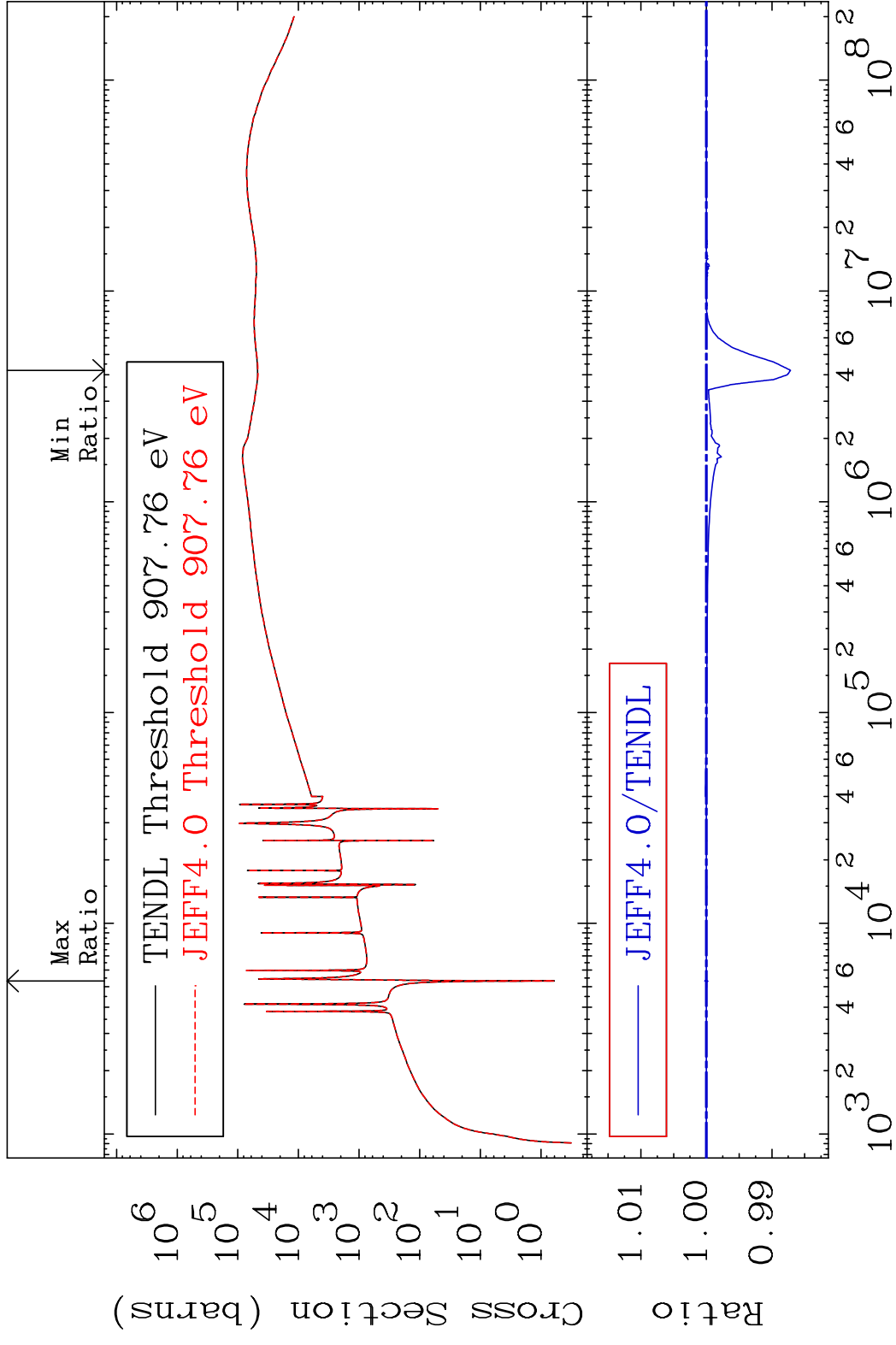
40-Zr-96

MAT 4043

Dpa elastic (mt2)

40-Zr-96

Cross Section -1.284 To 0.031 %



75

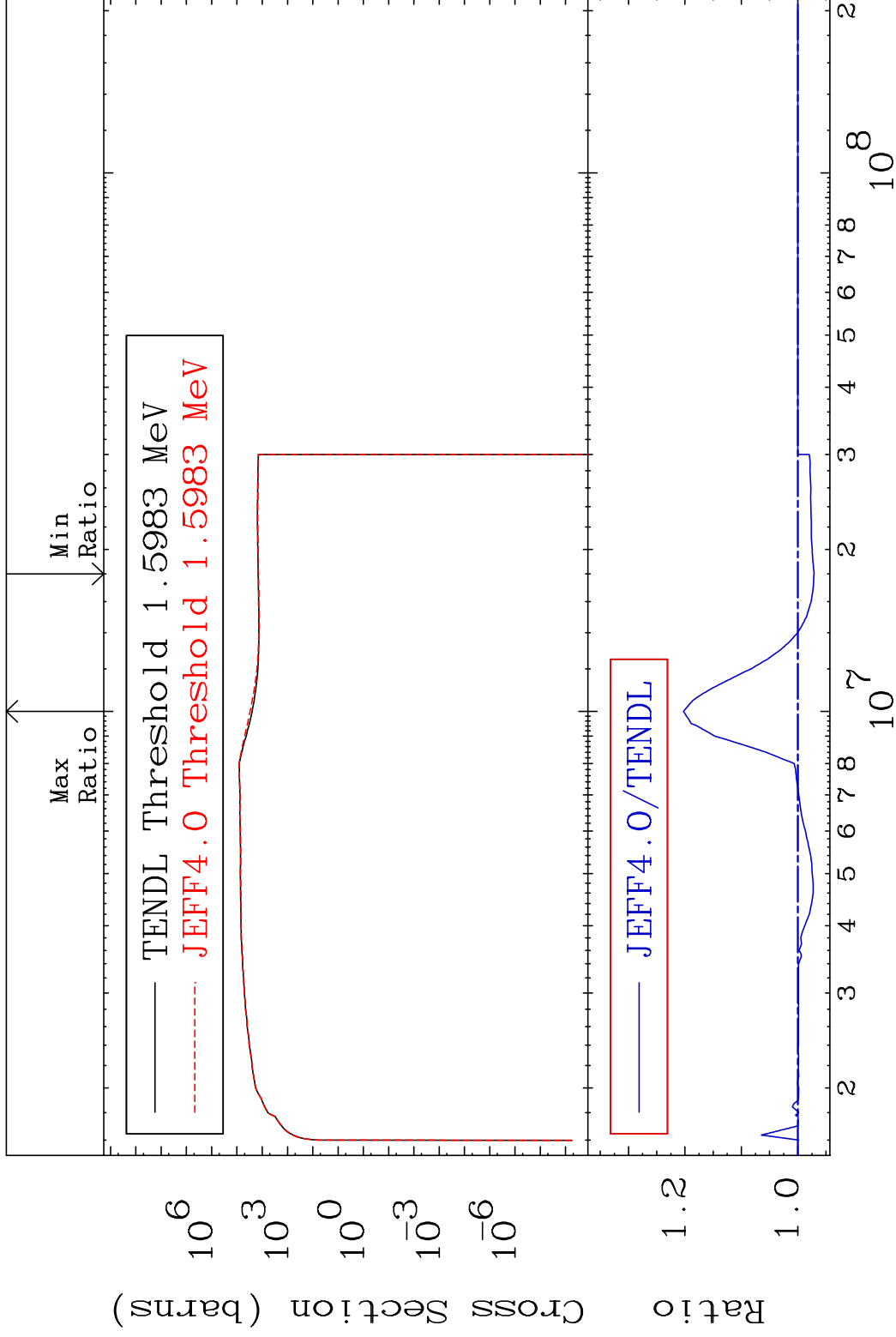
Incident Energy (eV)

40-Zr-96

MAT 4043

Dpa inelastic (mt51-91) 40-Zr-96

Cross Section -2.875 To 20.26 %

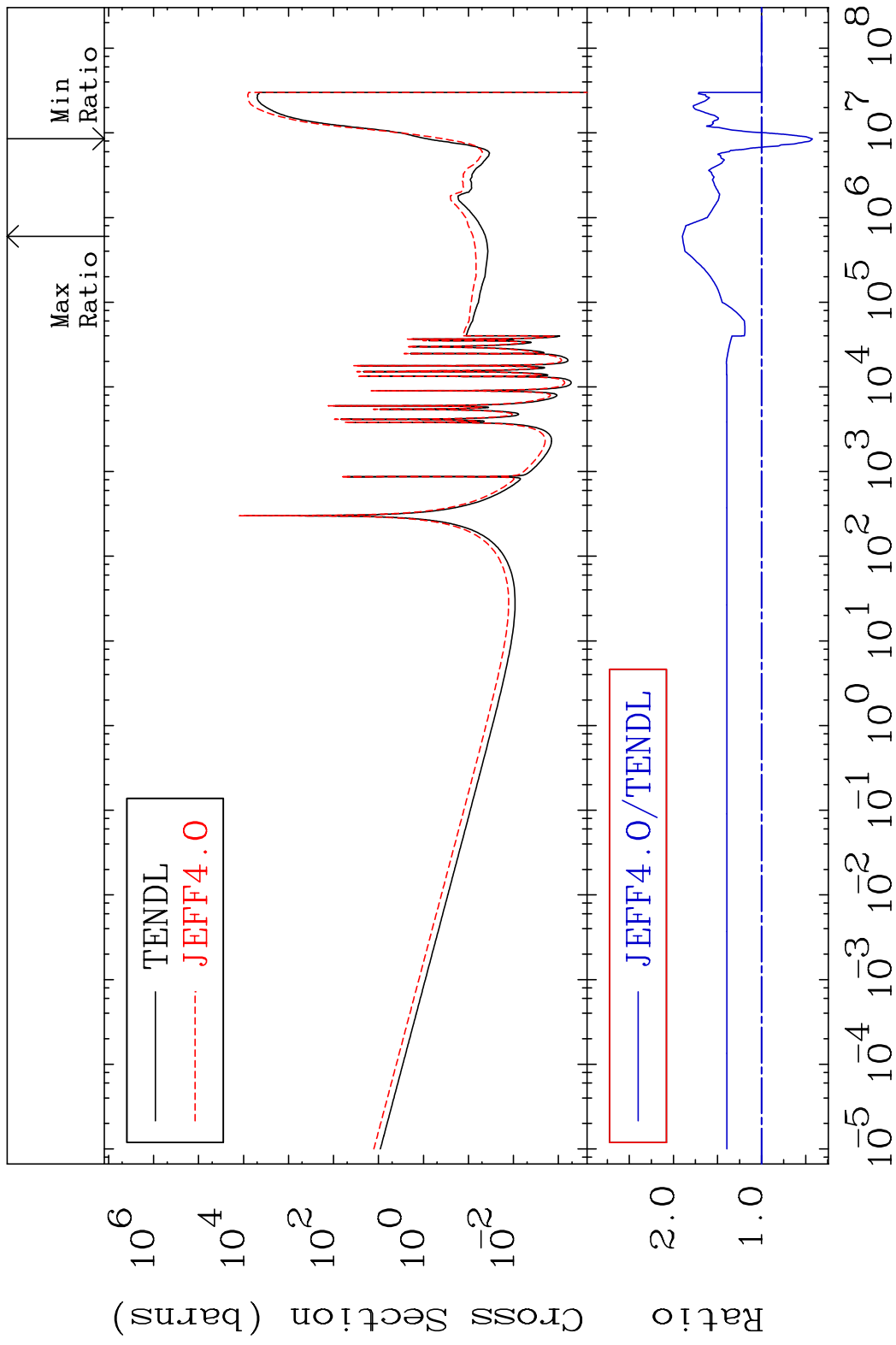


76

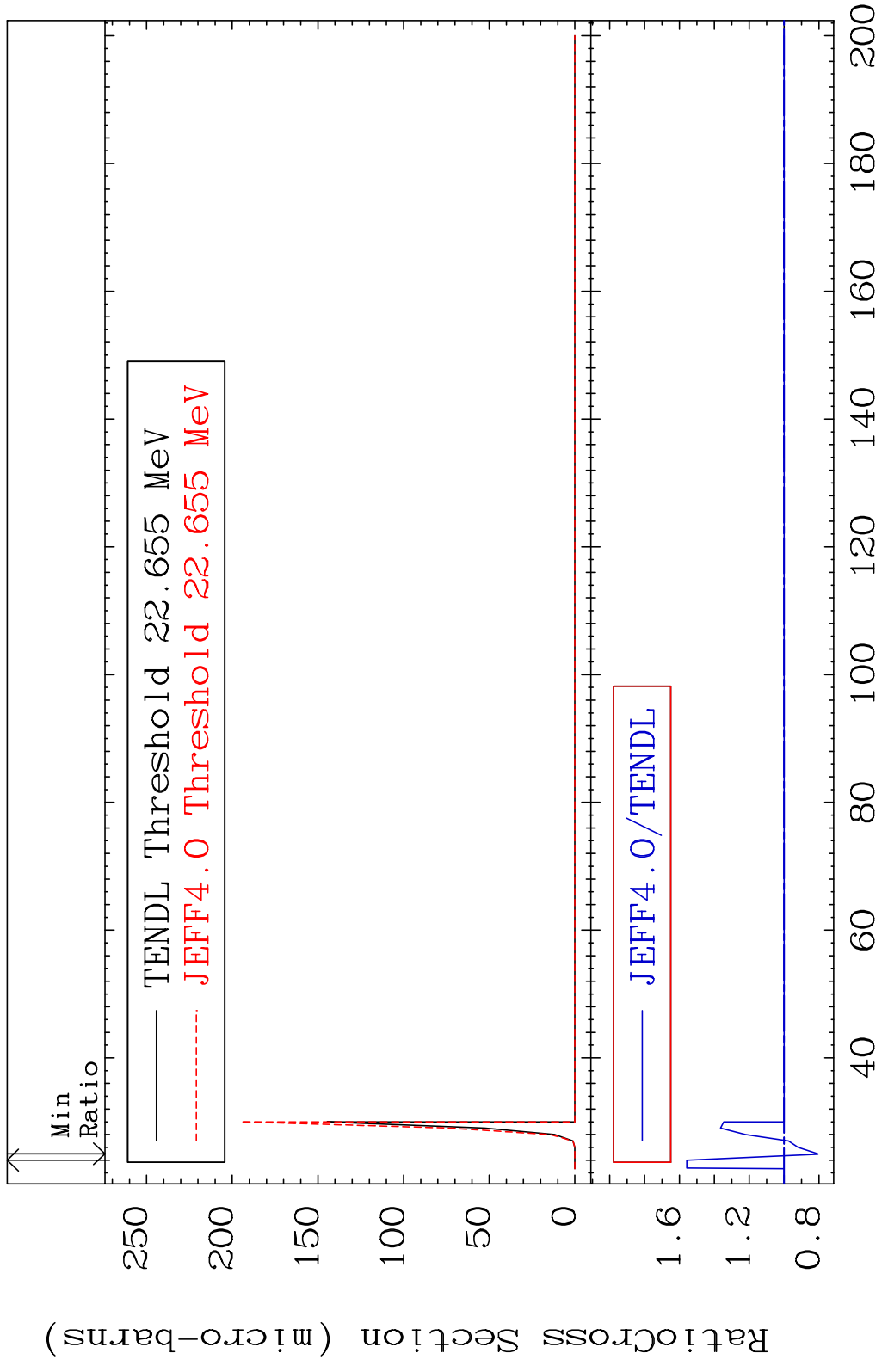
Incident Energy (eV)

40-Zr-96

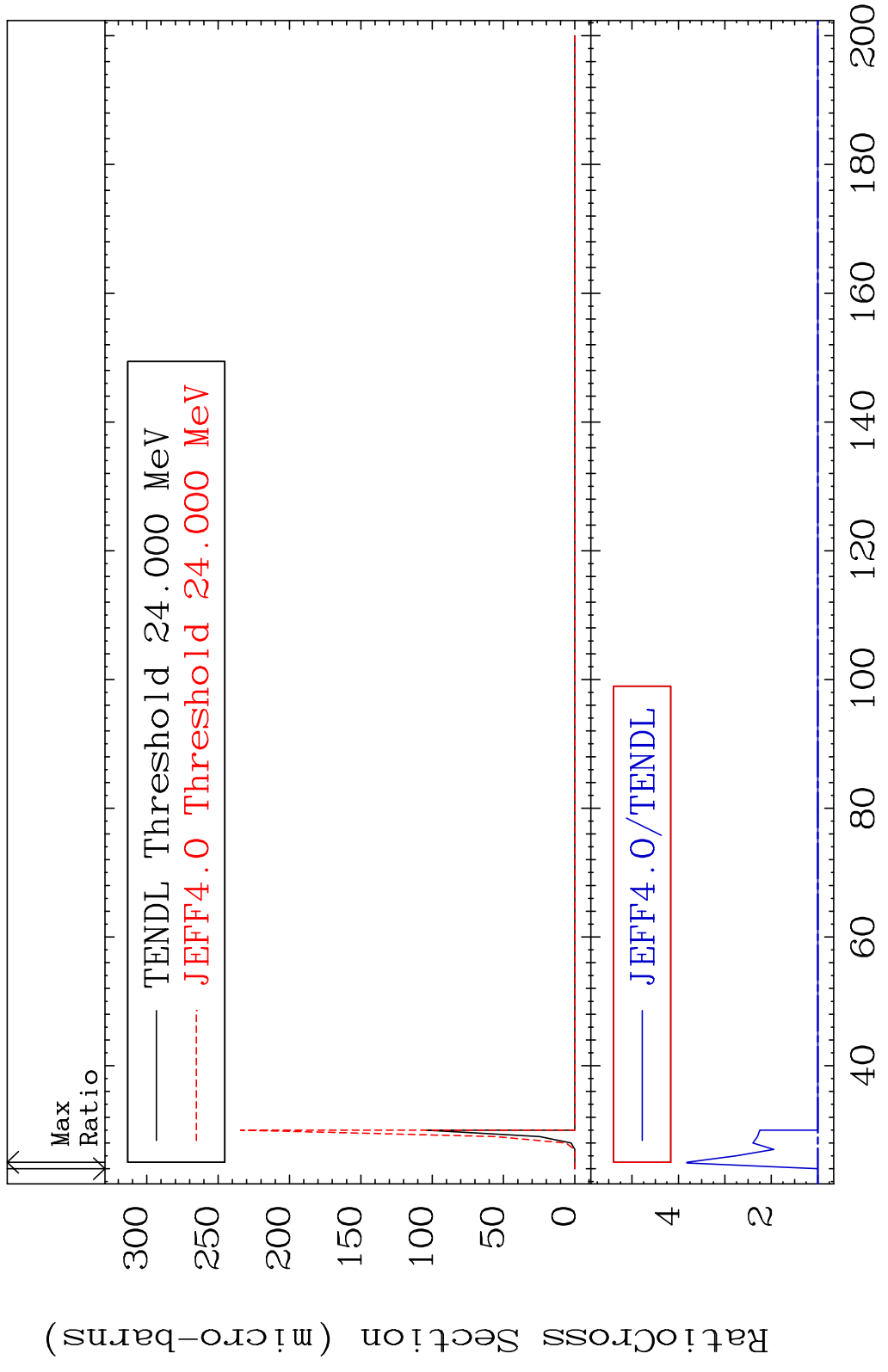
MAT 4043 Dpa disappearance (mt102 -120) 40-Zr-96
 Cross Section -57.75 To 89.85 %



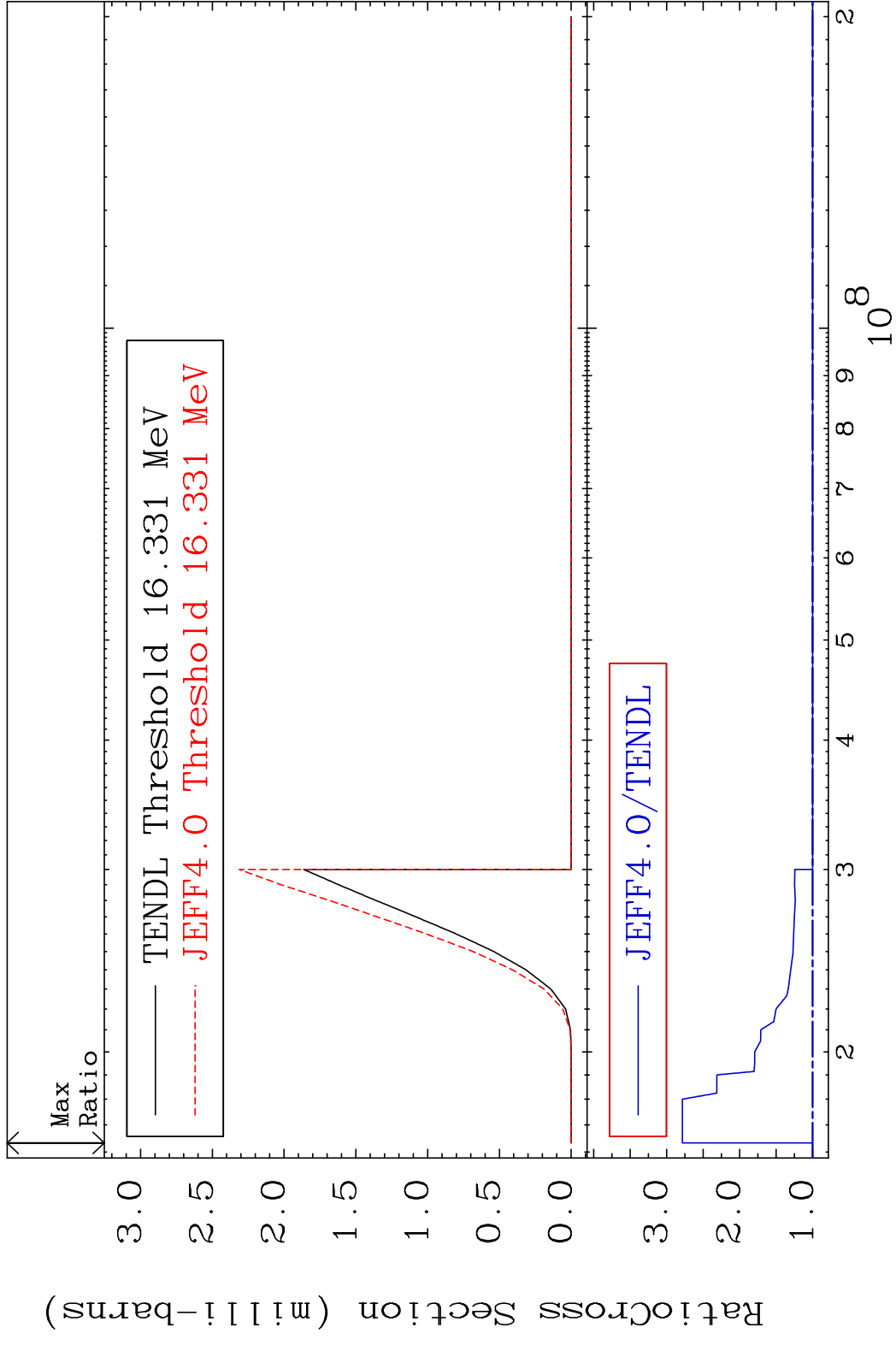
MAT 4043 (n,2n) d:39-Y -93g 40-Zr-96
 Radionuclide Production Cross Section 19e341d10 55.84 %



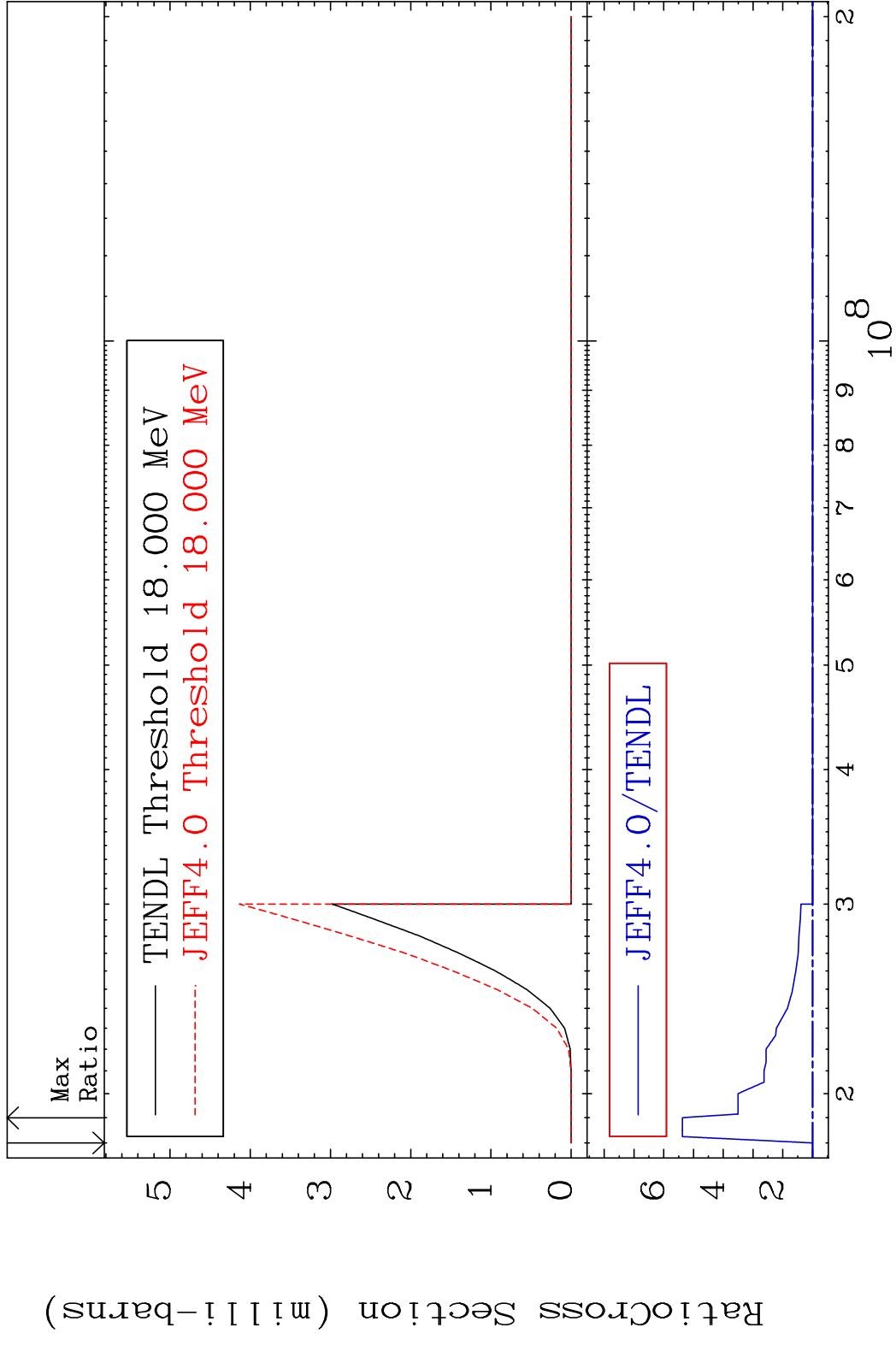
MAT 4043 (n,2n) d:39-Y -93m2 40-Zr-96
 Radionuclide Production Cross Section 282.2 %



MAT 4043 (n, n') t:39-Y -93g 40-Zr-96
 Radionuclide Production Cross Section 178.5 %



MAT 4043 (n, n') t:39-Y -93m2 40-Zr-96
 Radionuclide Production Cross Section 437.5 %



MAT 4043 (n,3n) p:39-Y -93g 40-Zr-96
 Radionuclide Production Cross Section 0.000 %

