

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

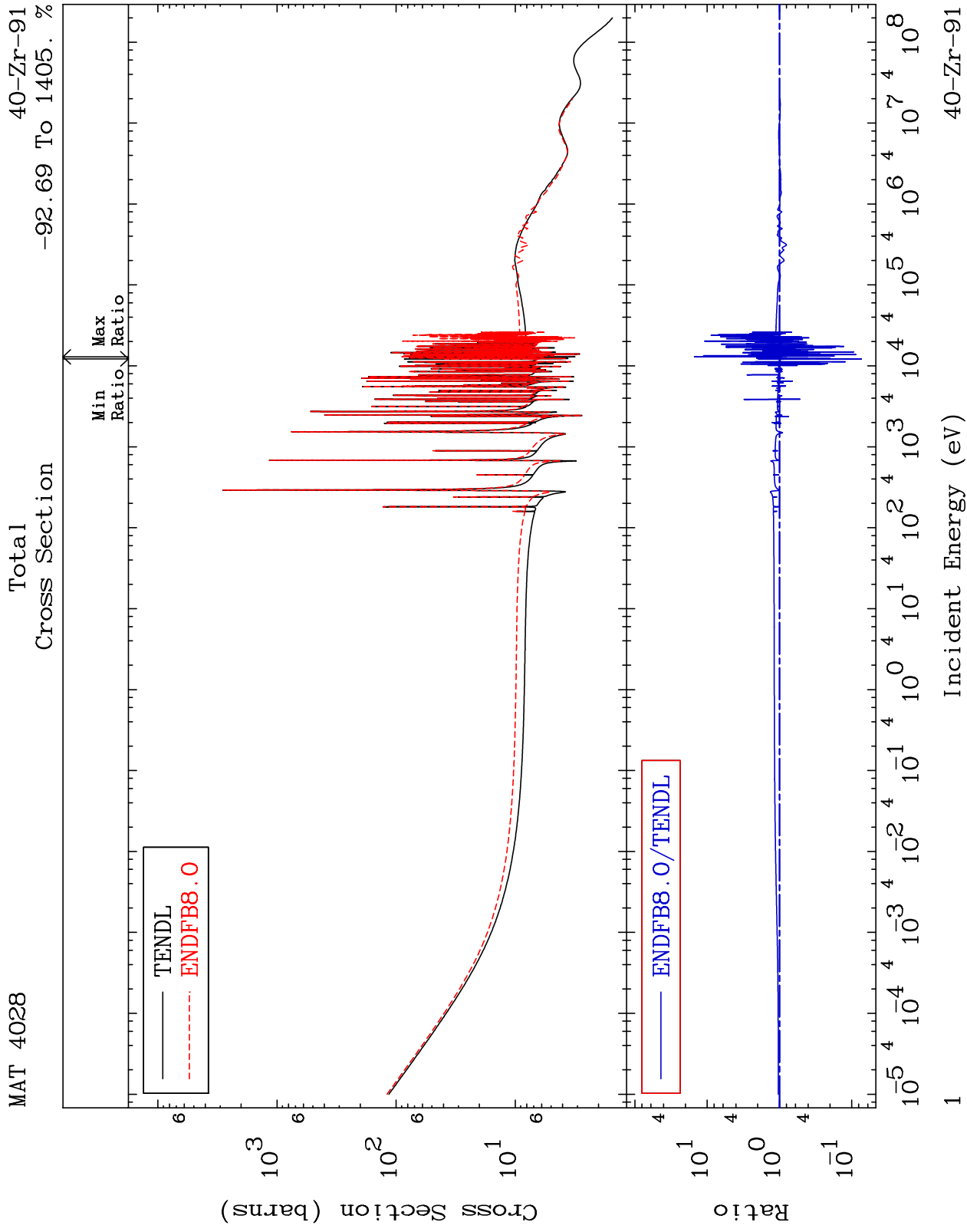
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

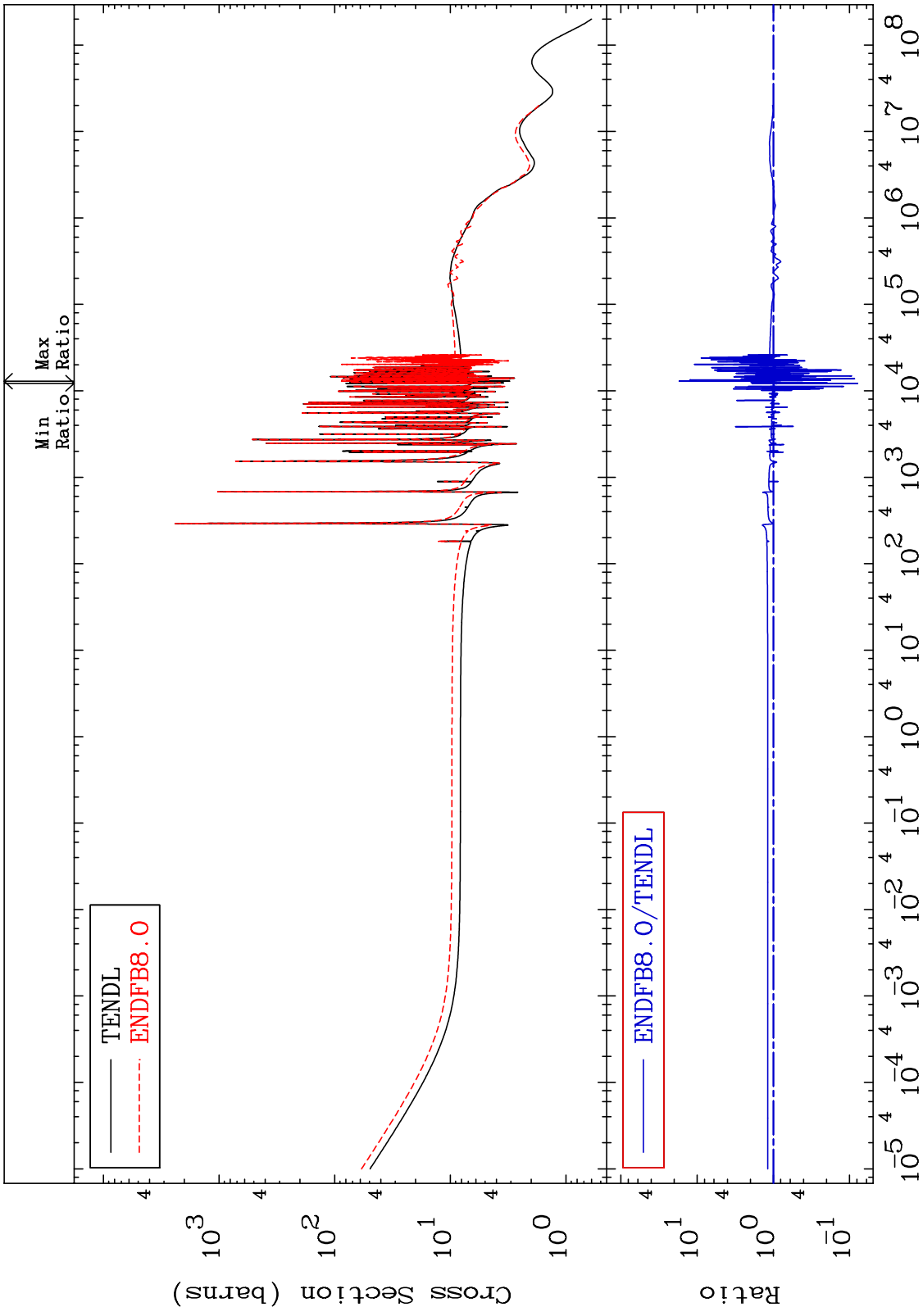
Tele: 925-443-1911

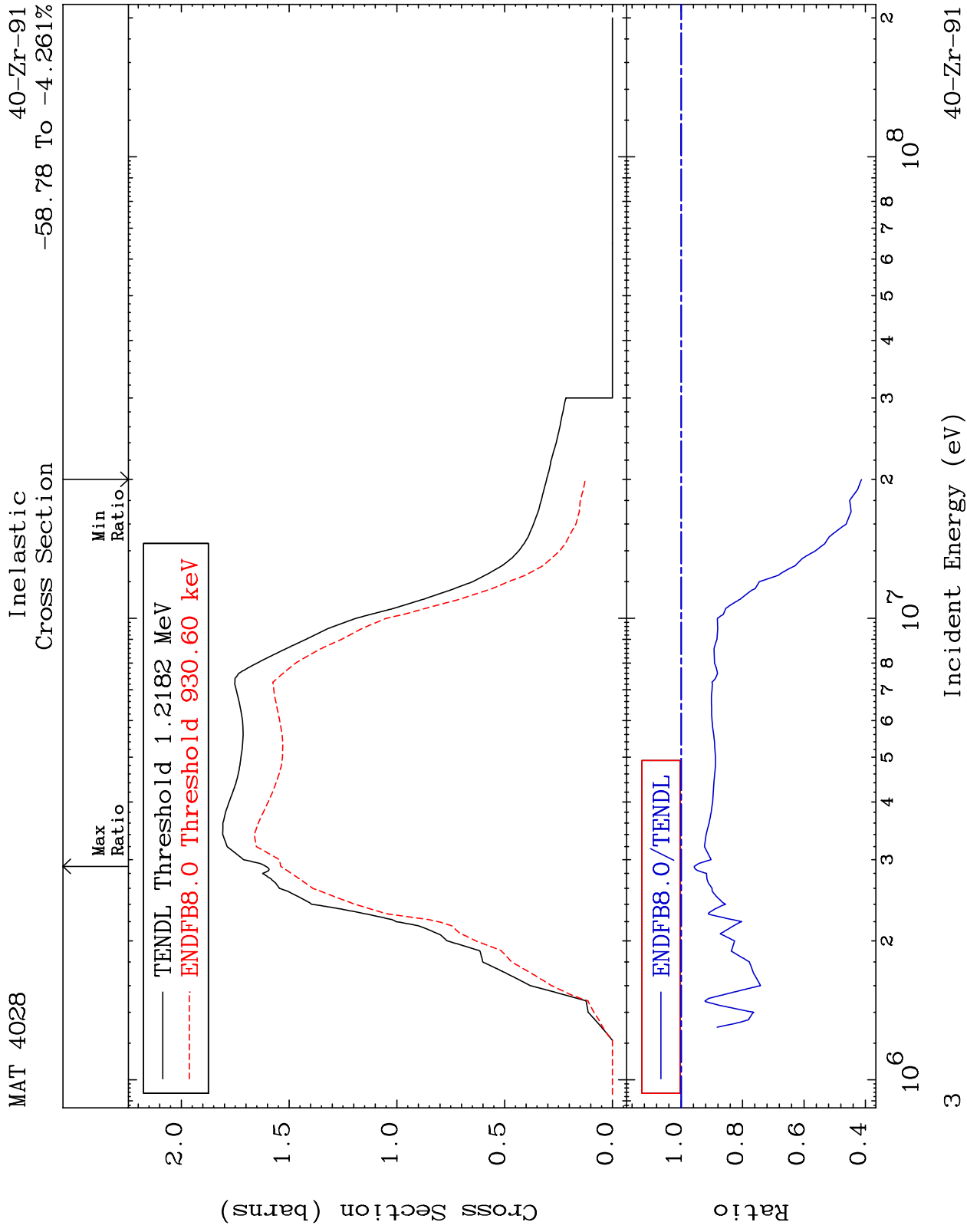
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

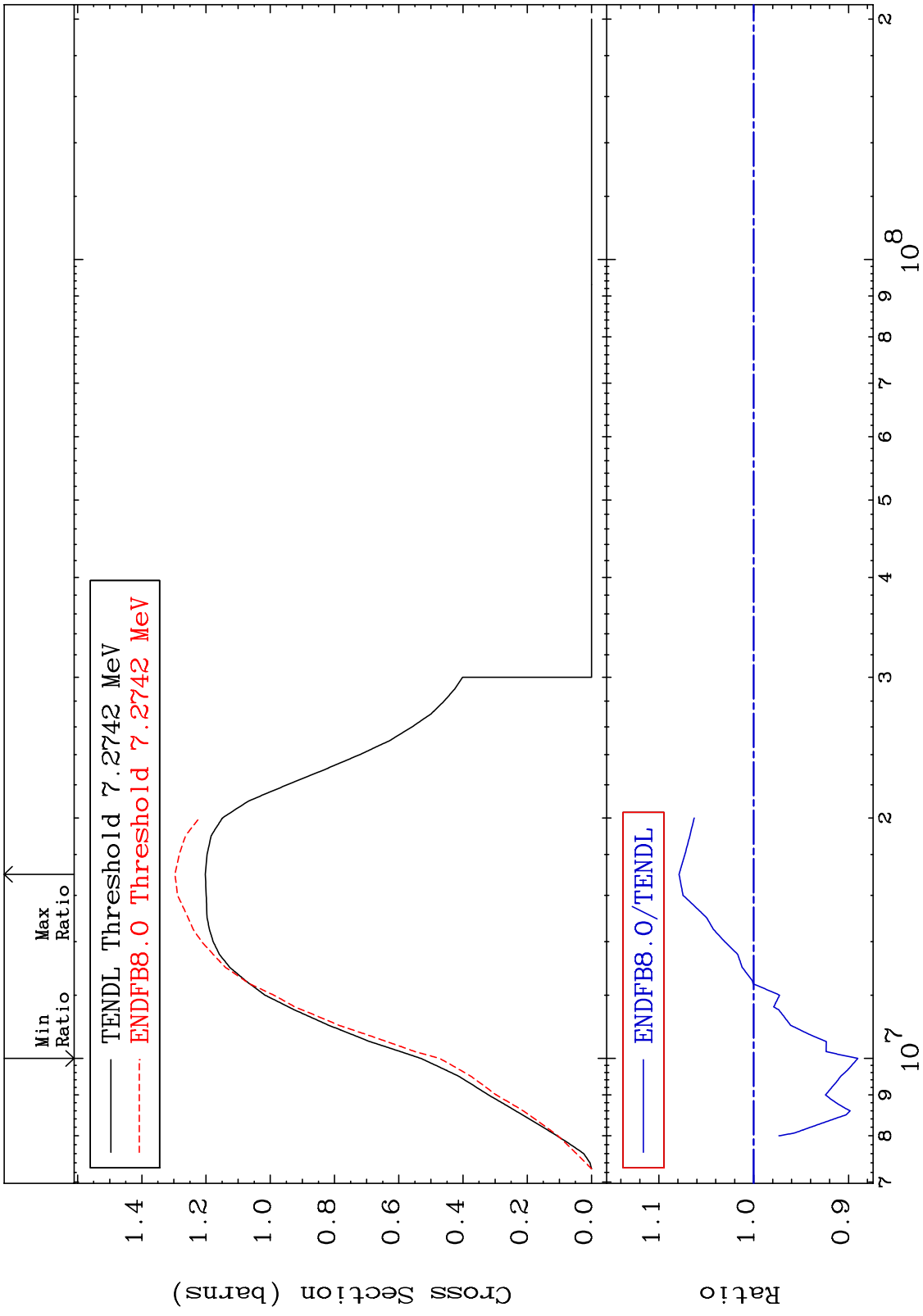


MAT 4028 Elastic Cross Section 40-Zr-91 -92.22 To 1626. %

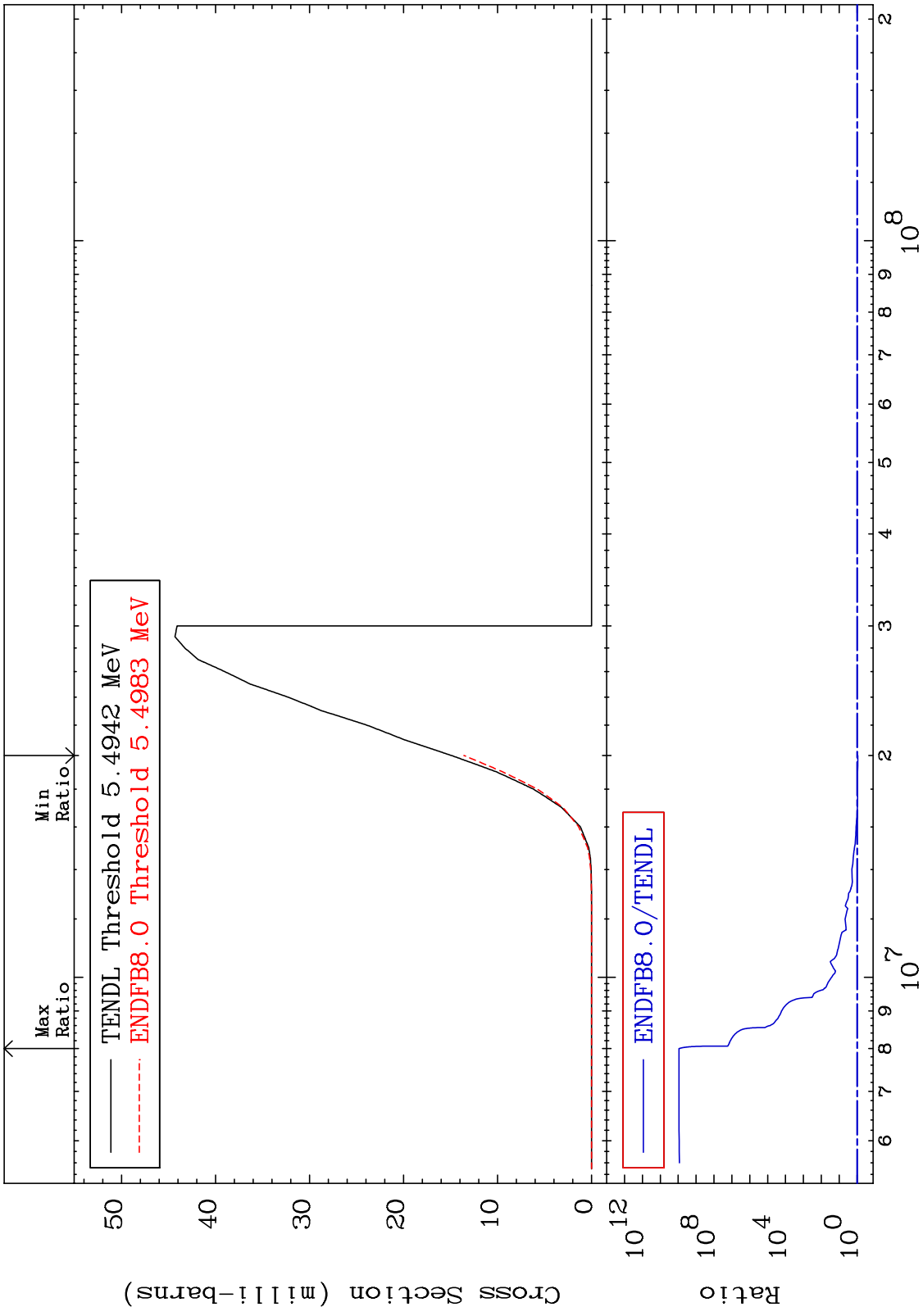




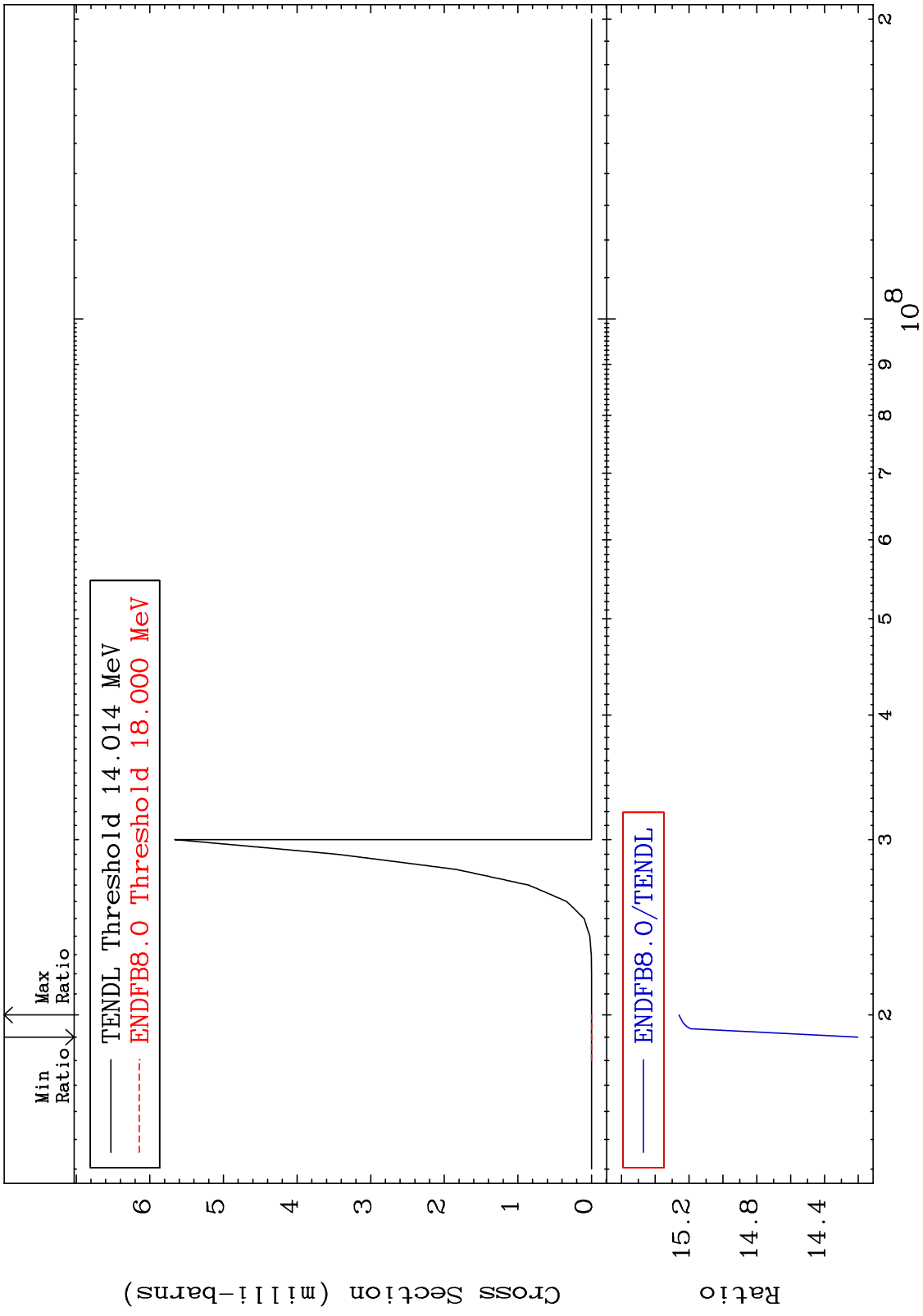
MAT 4028 (n,2n) Cross Section 40-Zr-91 -10.98 To 7.871 %



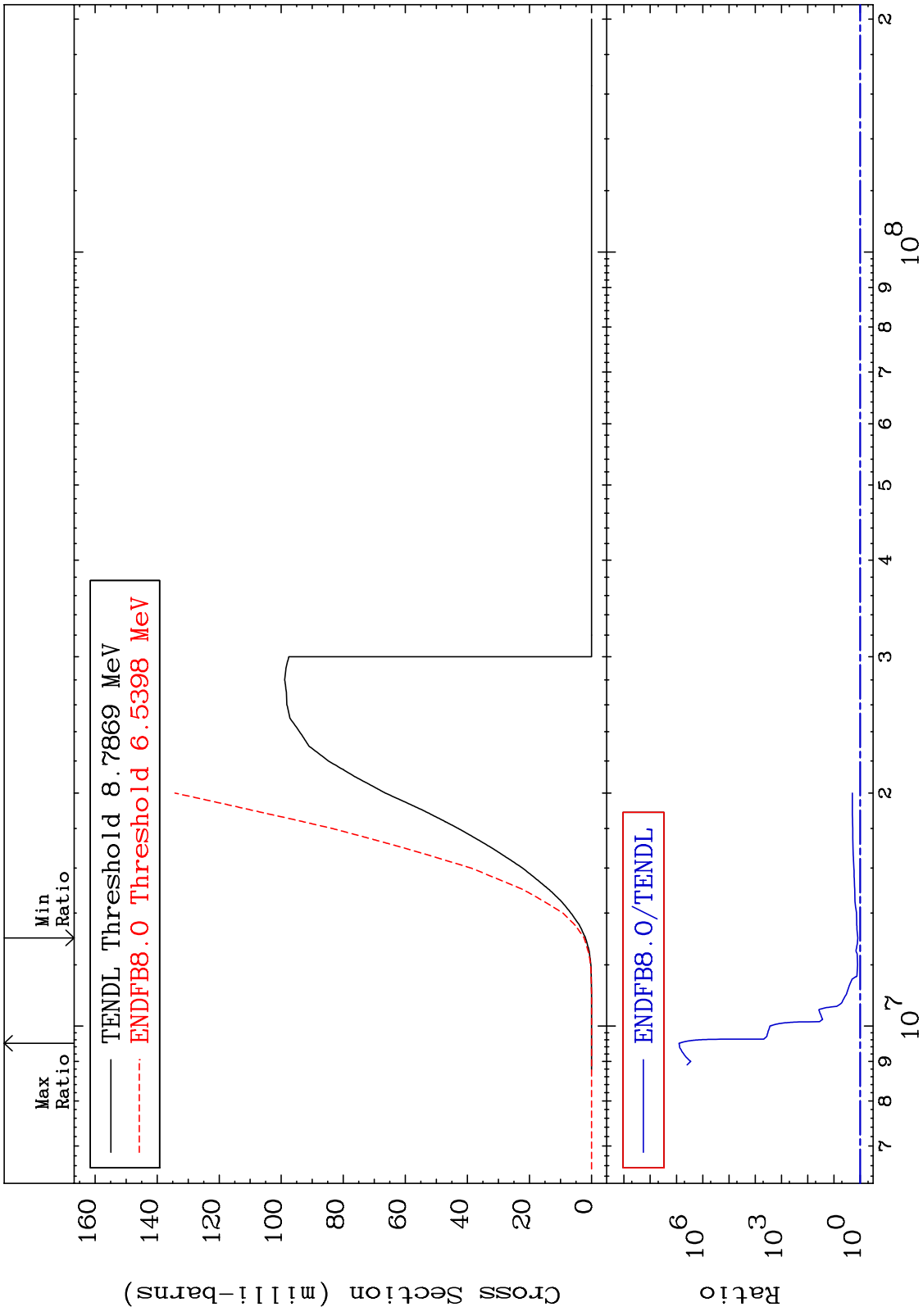
MAT 4028 $(n, n') \alpha$ 40-Zr-91
 Cross Section -8.904 To 9999. %



MAT 4028 (n,2n) α 40-Zr-91
 Cross Section 1320. To 1426. %

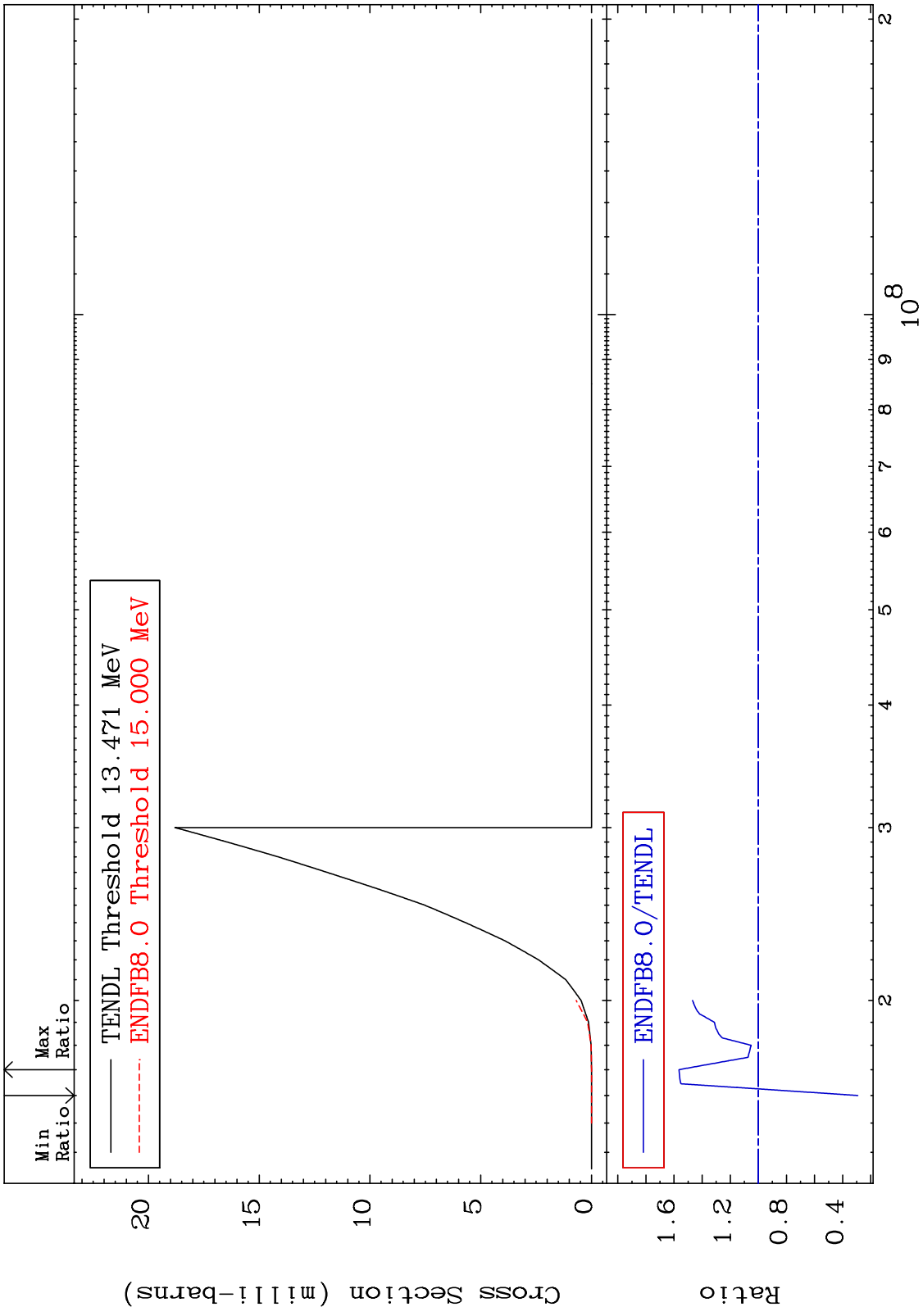


MAT 4028 (n,n') p 40-Zr-91
 Cross Section 23.71 To 9999. %



7 40-Zr-91

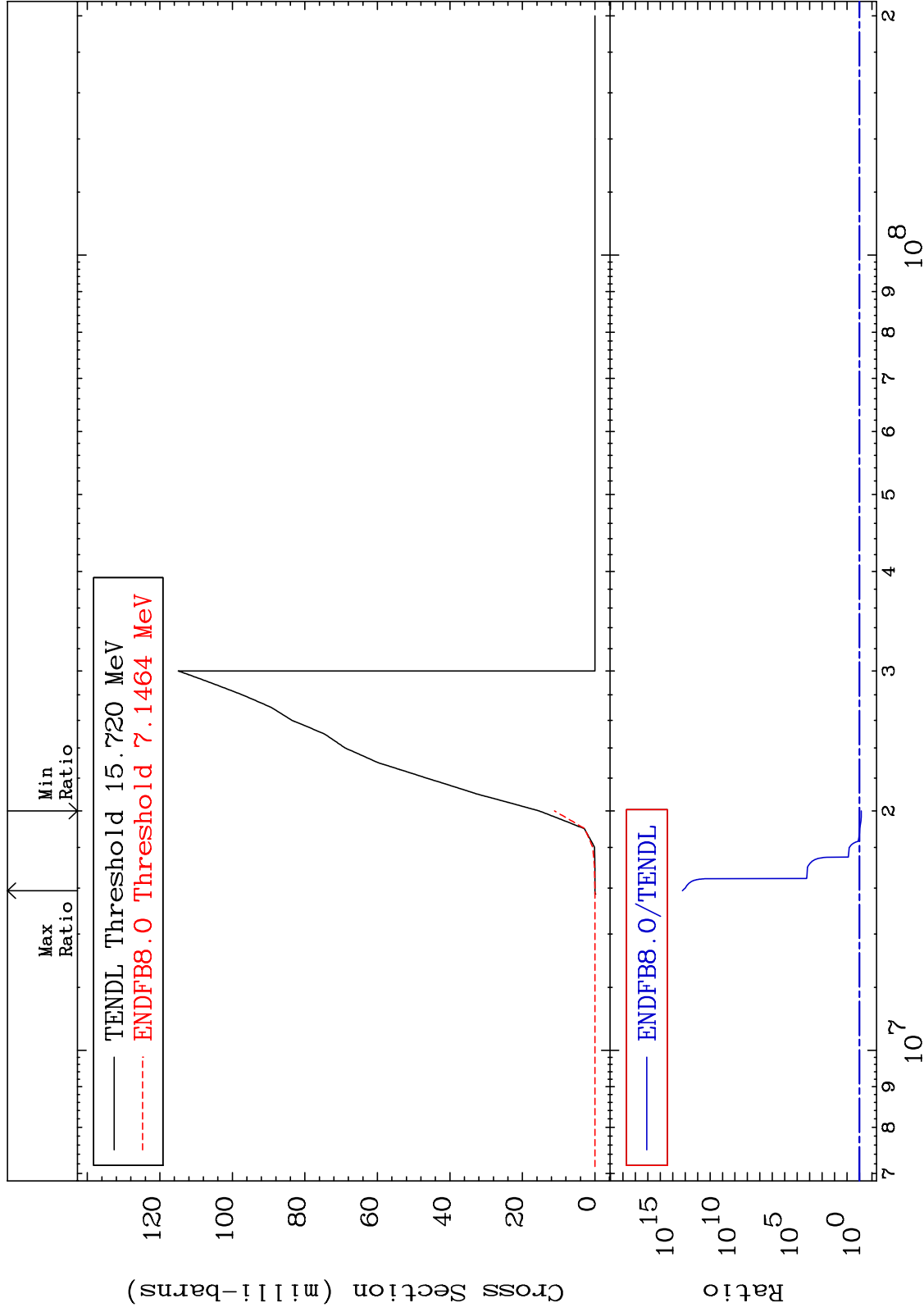
MAT 4028 (n, n') d 40-Zr-91
 Cross Section -70.80 To 56.44 %



MAT 4028

(n,2n) p
Cross Section

40-Zr-91
-27.44 To 9999. %

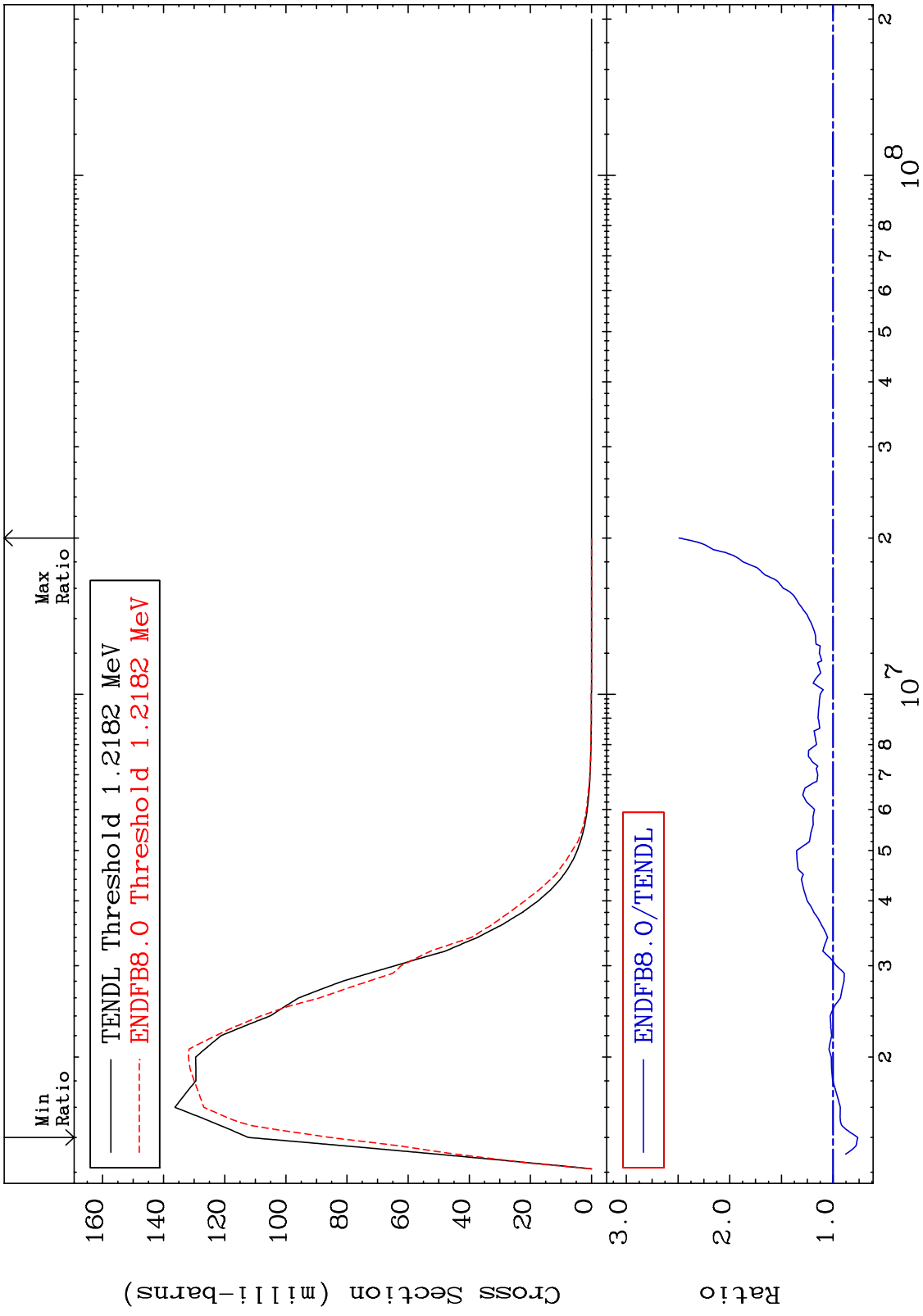


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Incident Energy (eV)

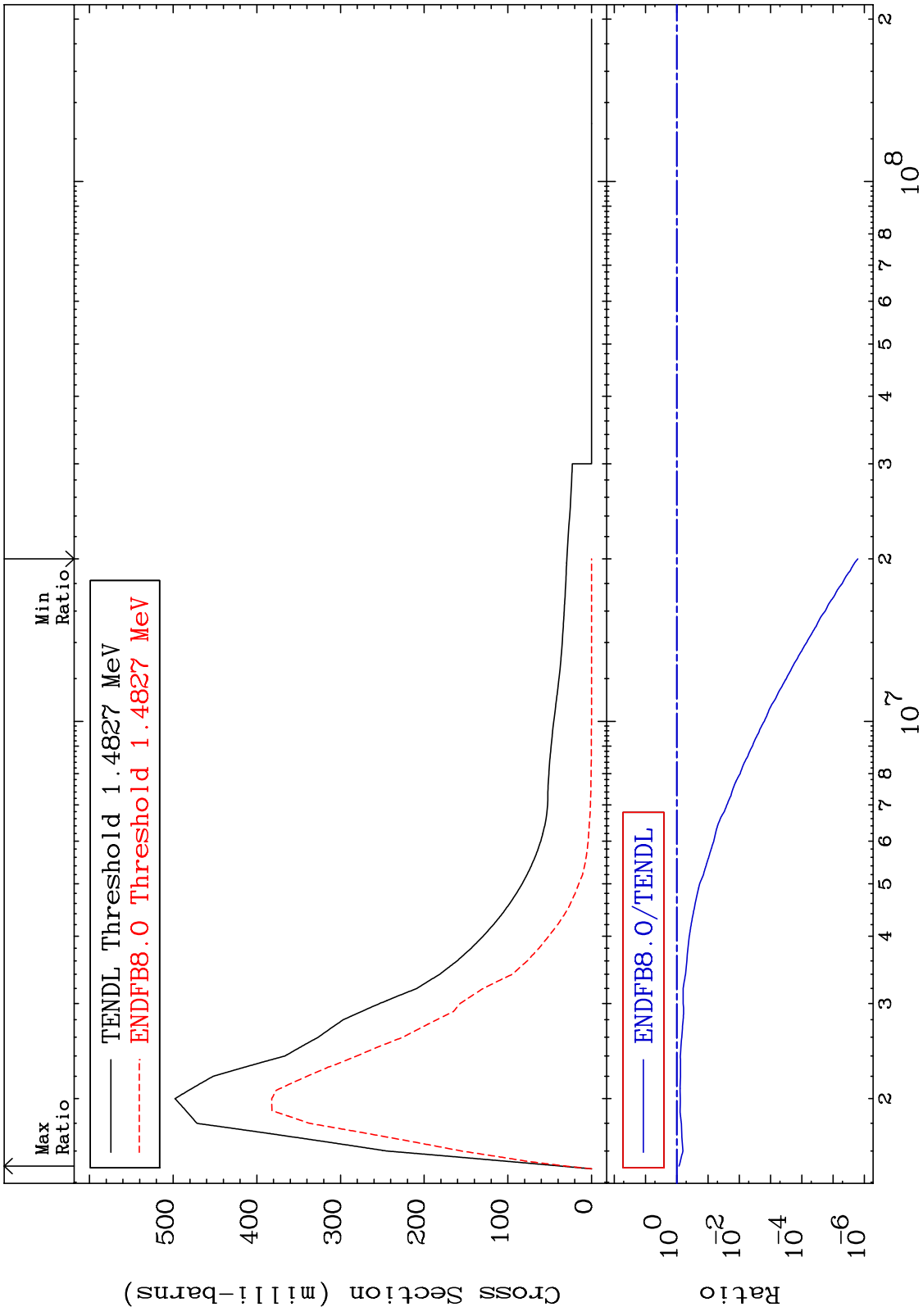
40-Zr-91

MAT 4028 MT= 51 (n,n') Level Cross Section 40-Zr-91
 -23.86 To 149.0 %

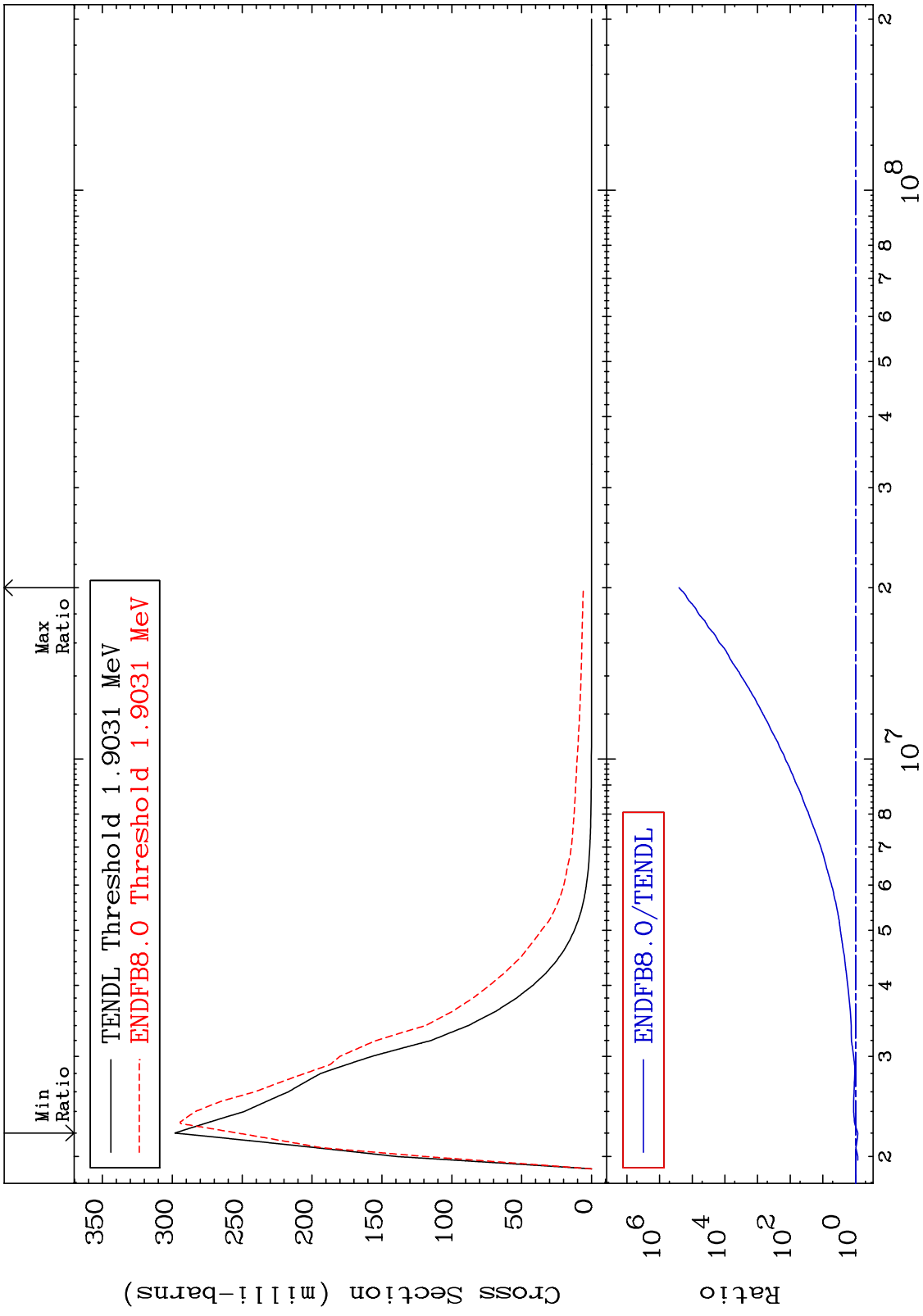


40-Zr-91

MAT 4028 MT= 52 (n,n') Level Cross Section 40-Zr-91
 -100.0 To -15.69%

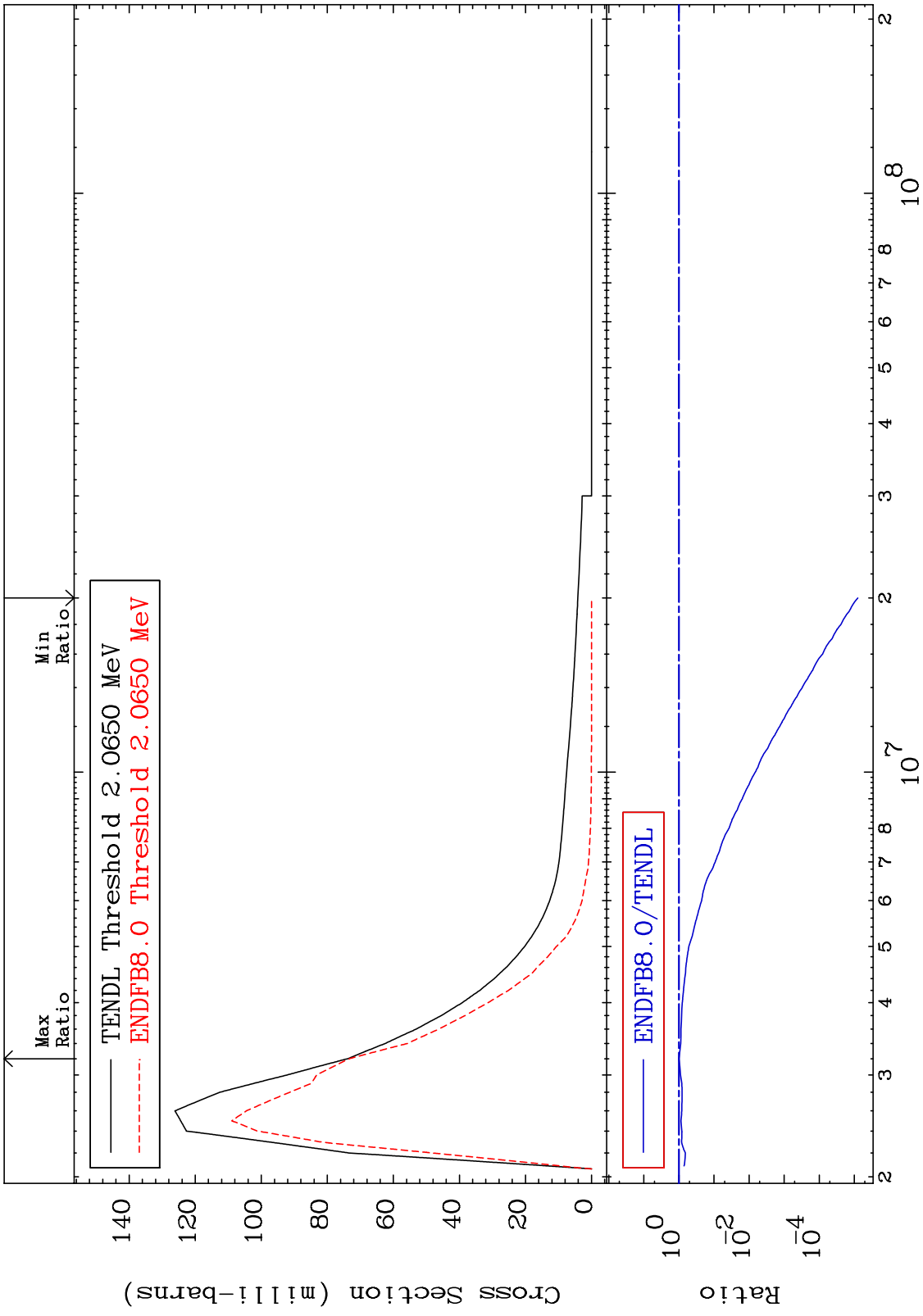


MAT 4028 MT= 53 (n,n') Level Cross Section -14.99 To 9999. % 40-Zr-91

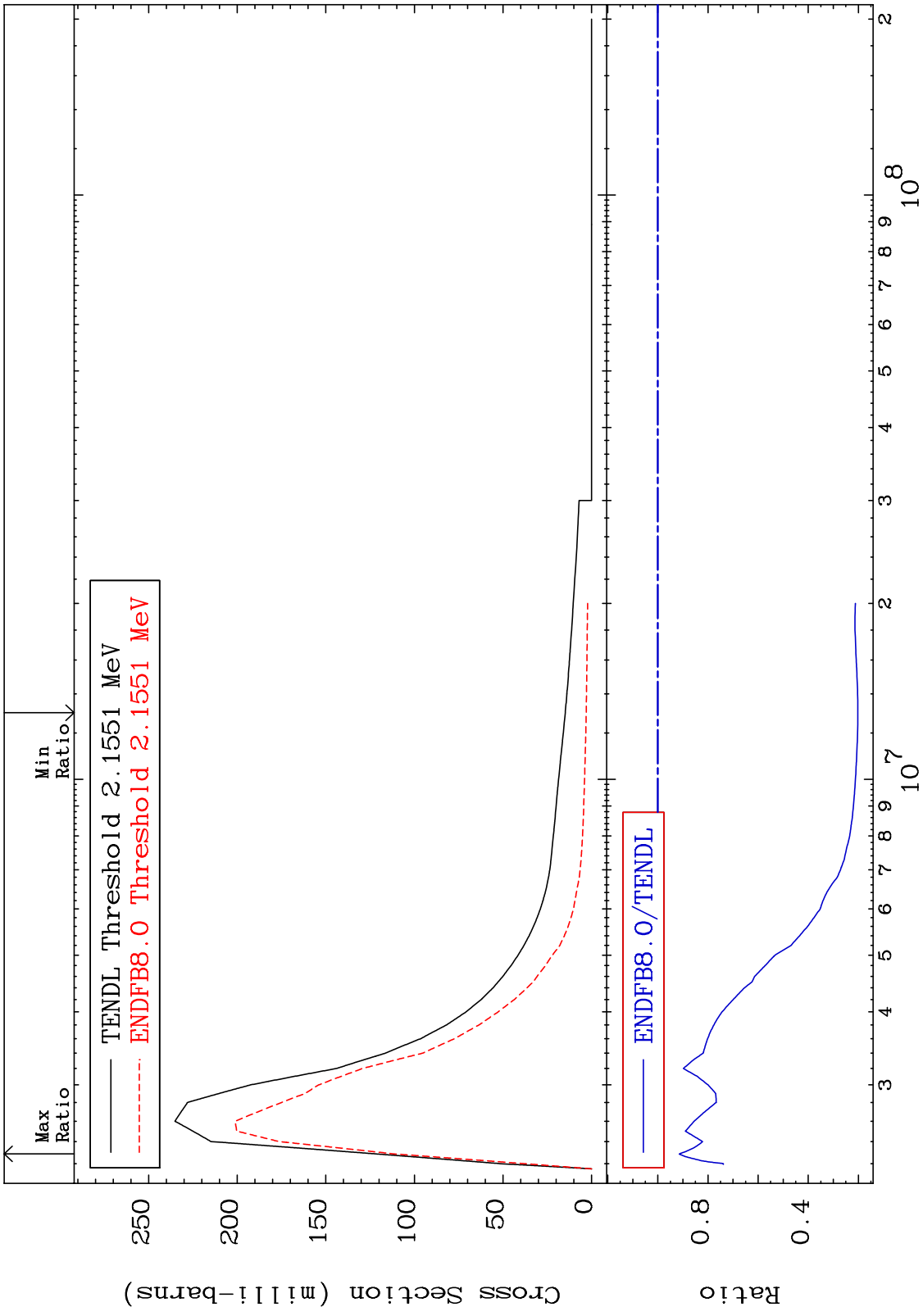


12 Incident Energy (eV) 40-Zr-91

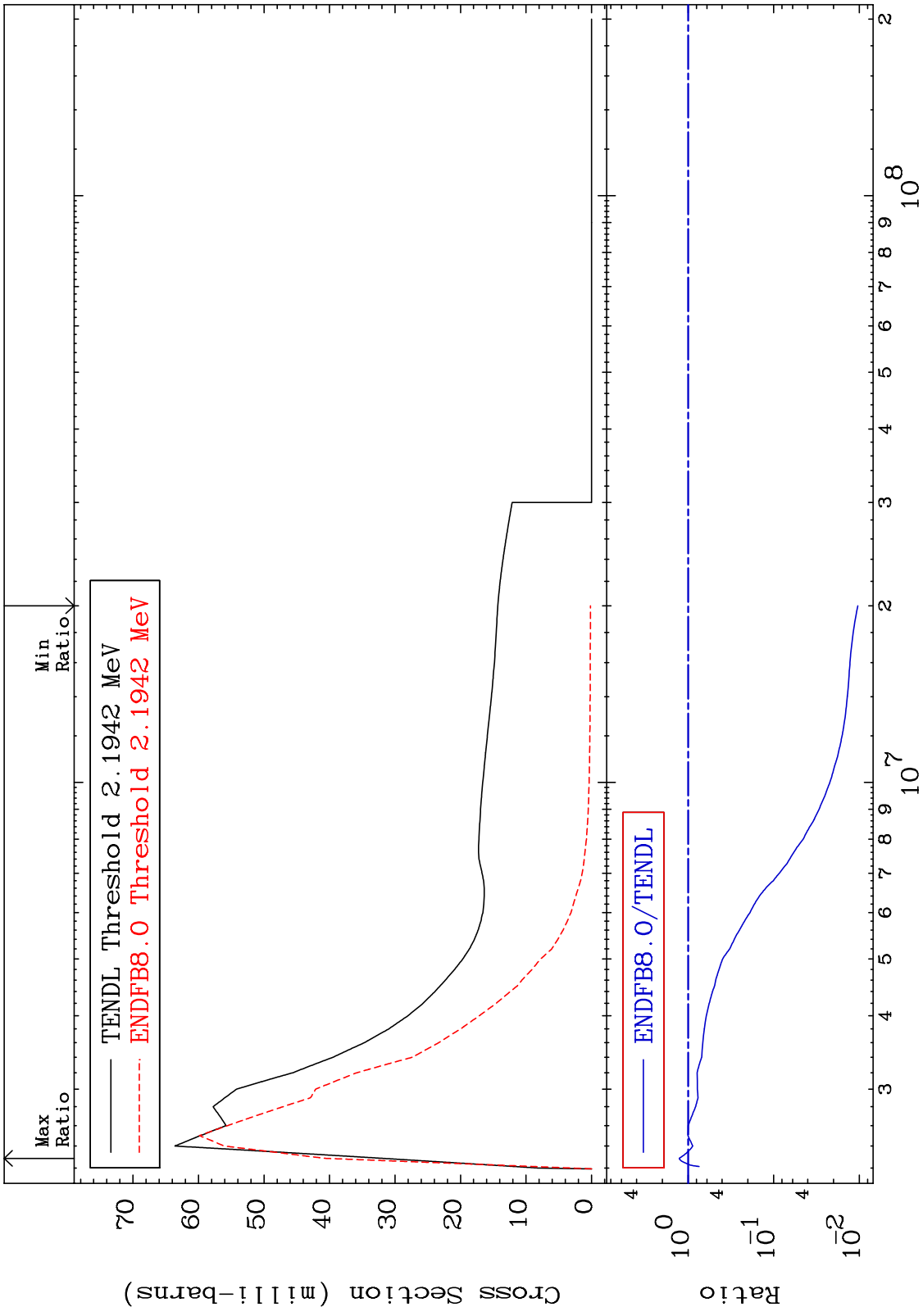
MAT 4028 MT= 54 (n,n') Level Cross Section 40-Zr-91
 -100.0 To -0.656%



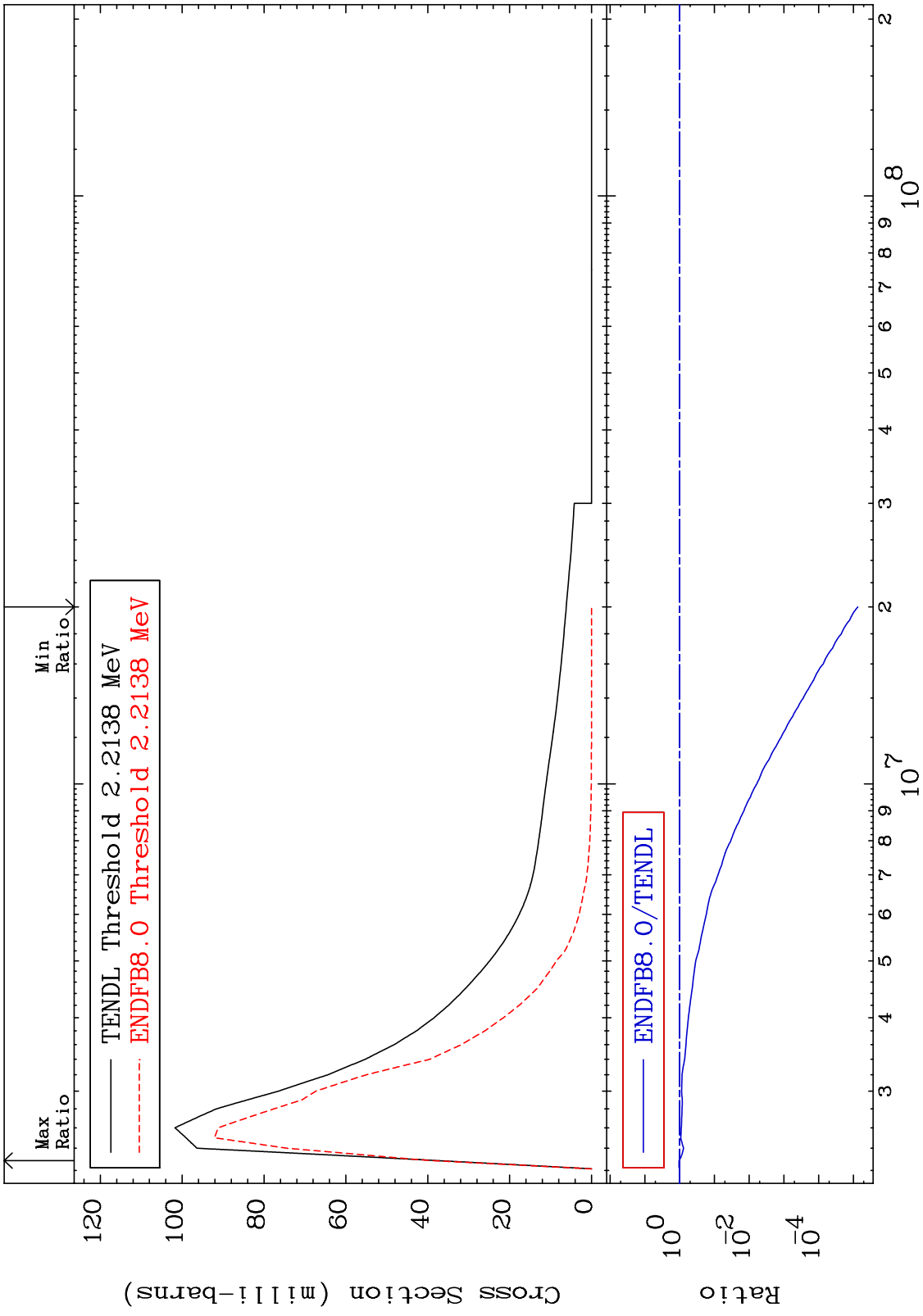
MAT 4028 MT= 55 (n,n') Level Cross Section 40-Zr-91
 -79.77 To -8.453%

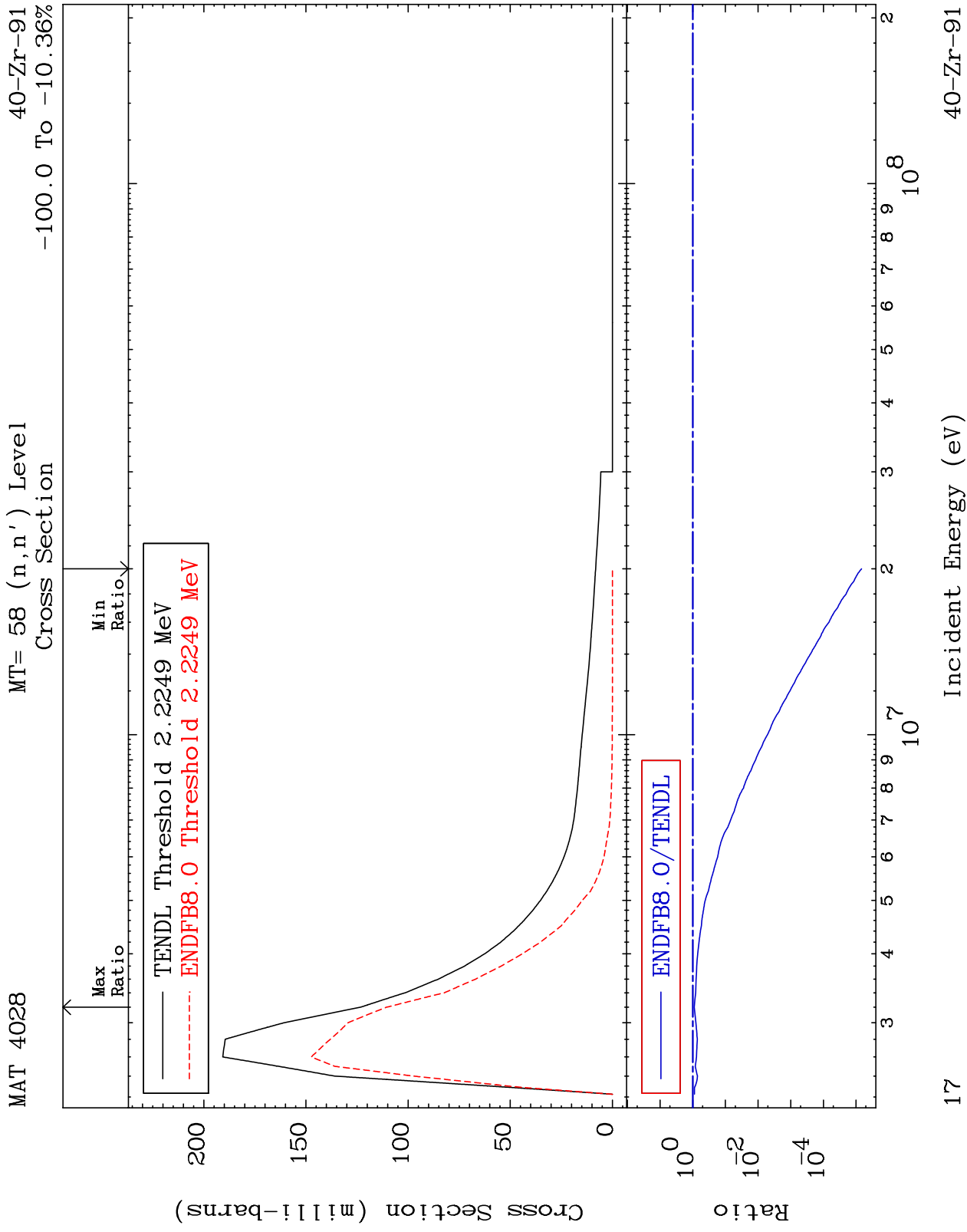


MAT 4028 MT= 56 (n,n') Level Cross Section 40-Zr-91
 -98.96 To 27.44 %

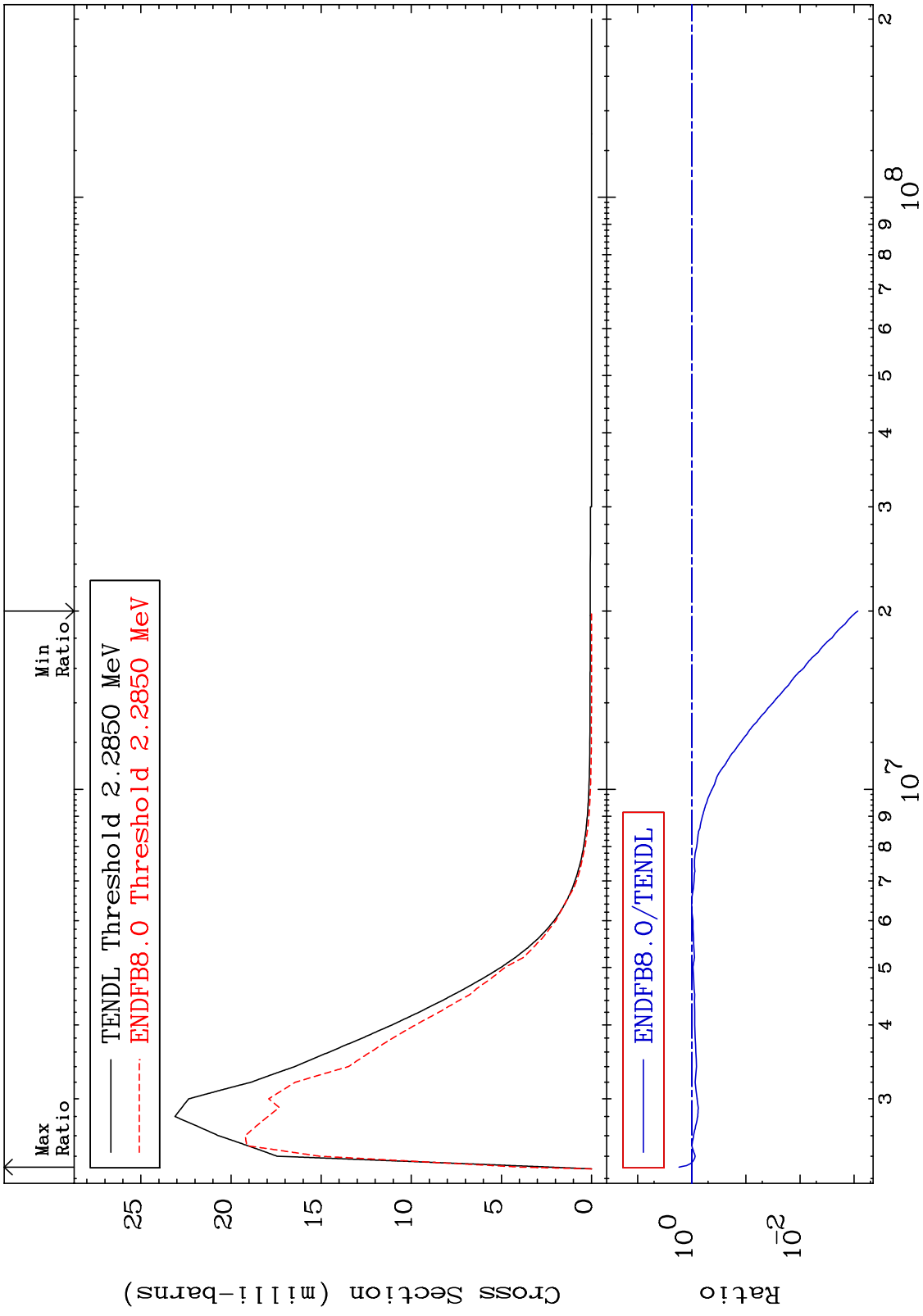


MAT 4028 MT= 57 (n,n') Level Cross Section -100.0 To 3.801 % 40-Zr-91





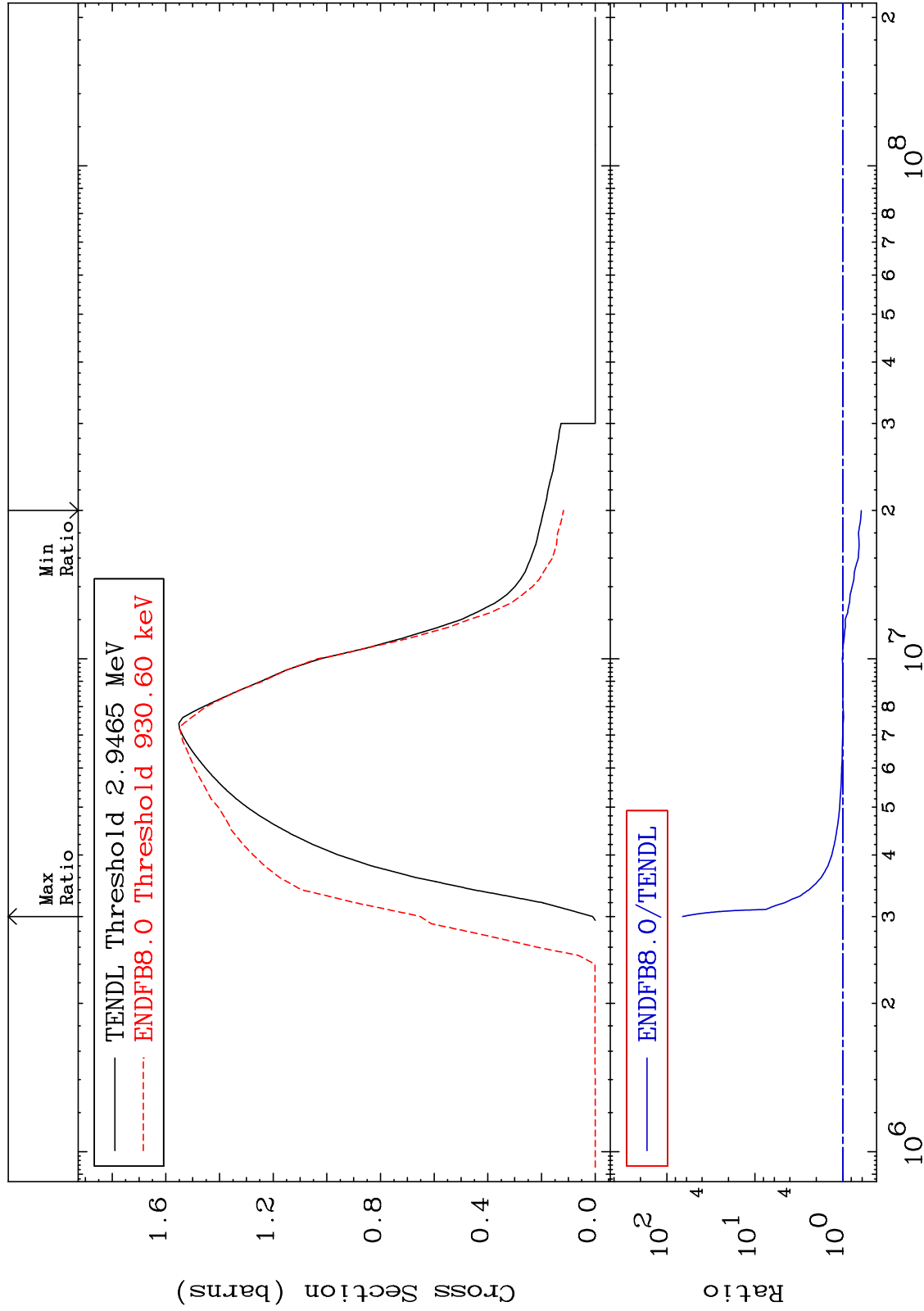
MAT 4028 MT= 59 (n,n') Level Cross Section 40-Zr-91
 -99.91 To 72.26 %



MAT 4028

(n, n') Continuum
Cross Section

40-Zr-91
-38.56 To 6527. %



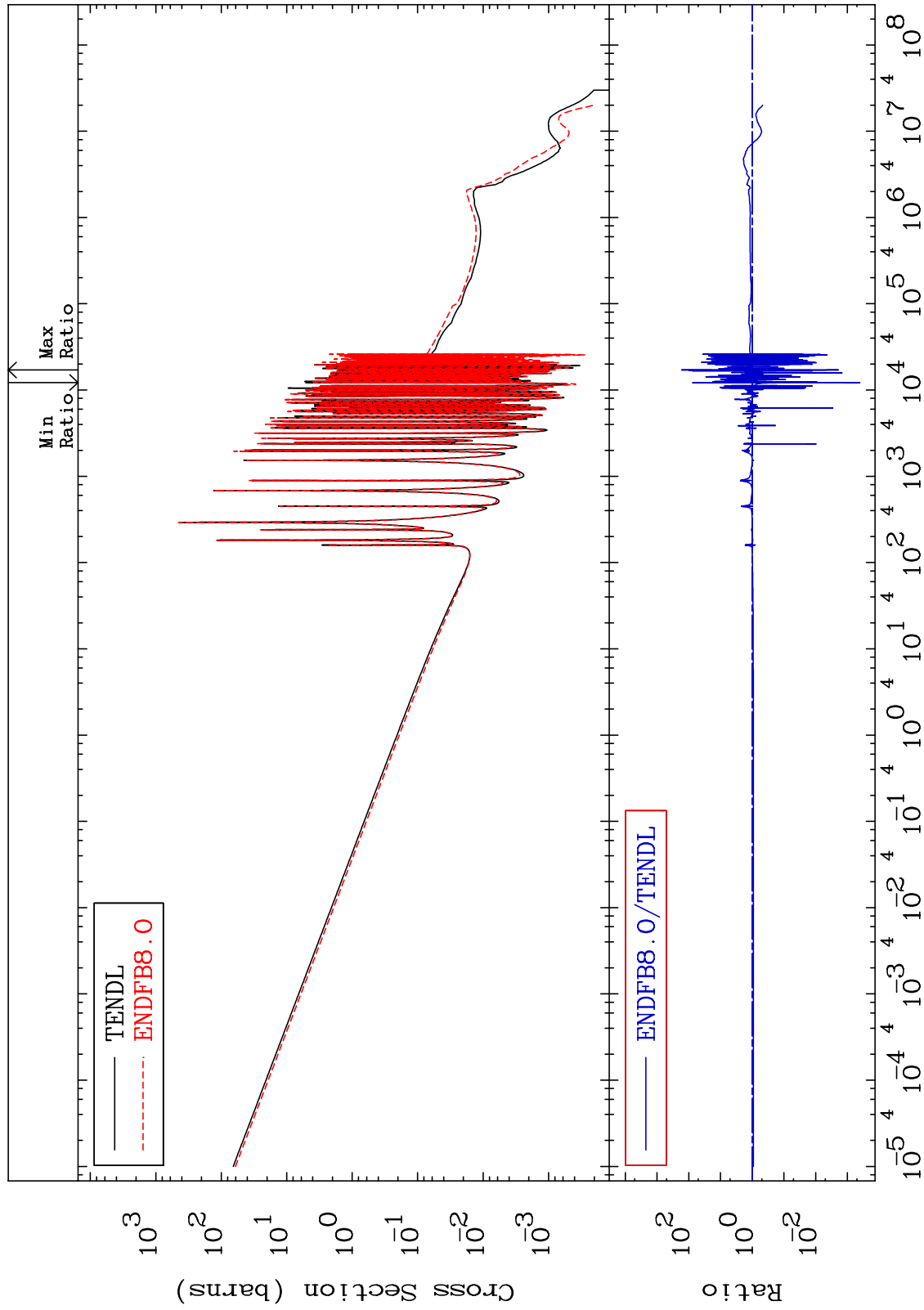
MAT 4028

(n, γ)

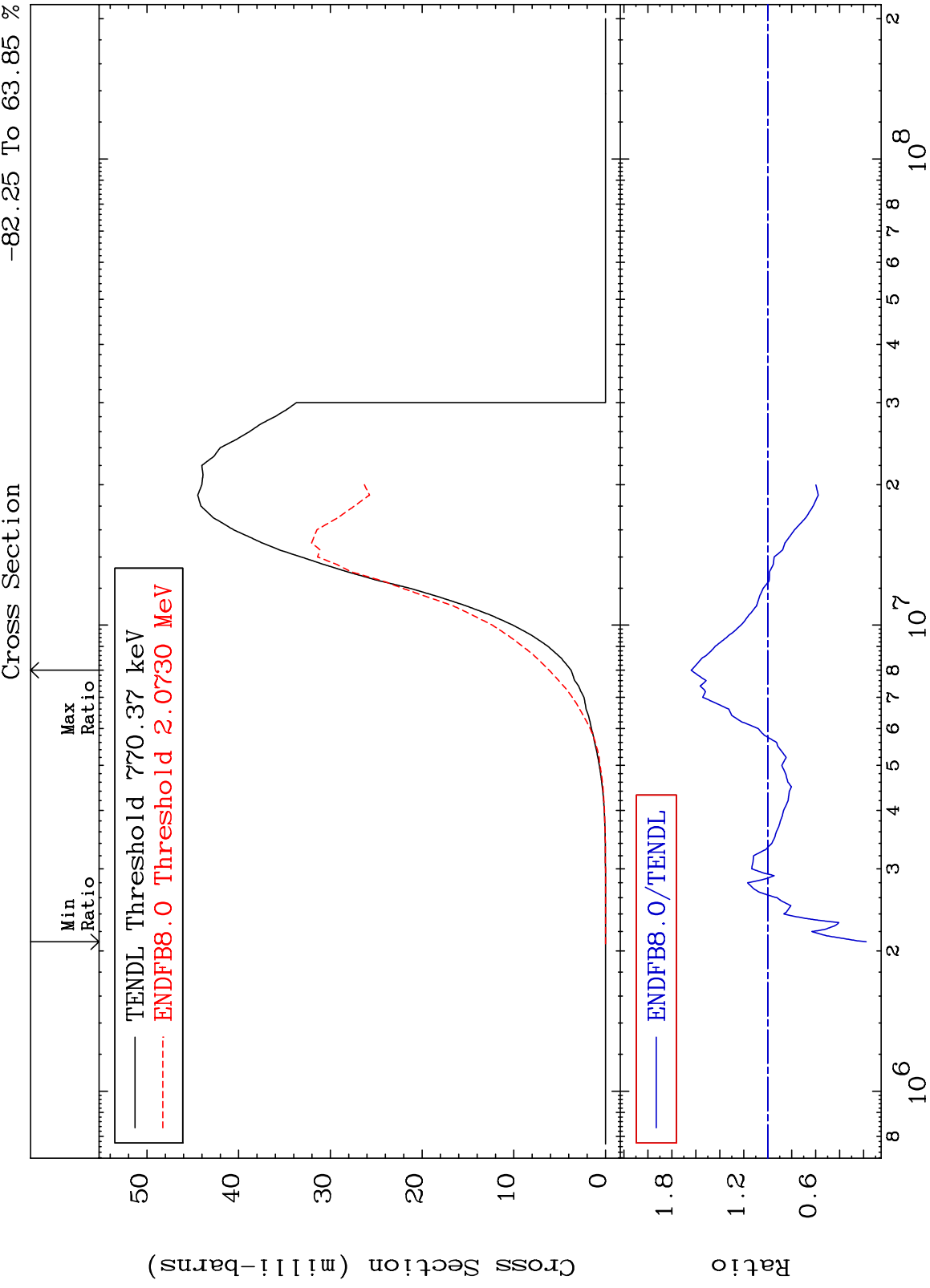
40-Zr-91

Cross Section

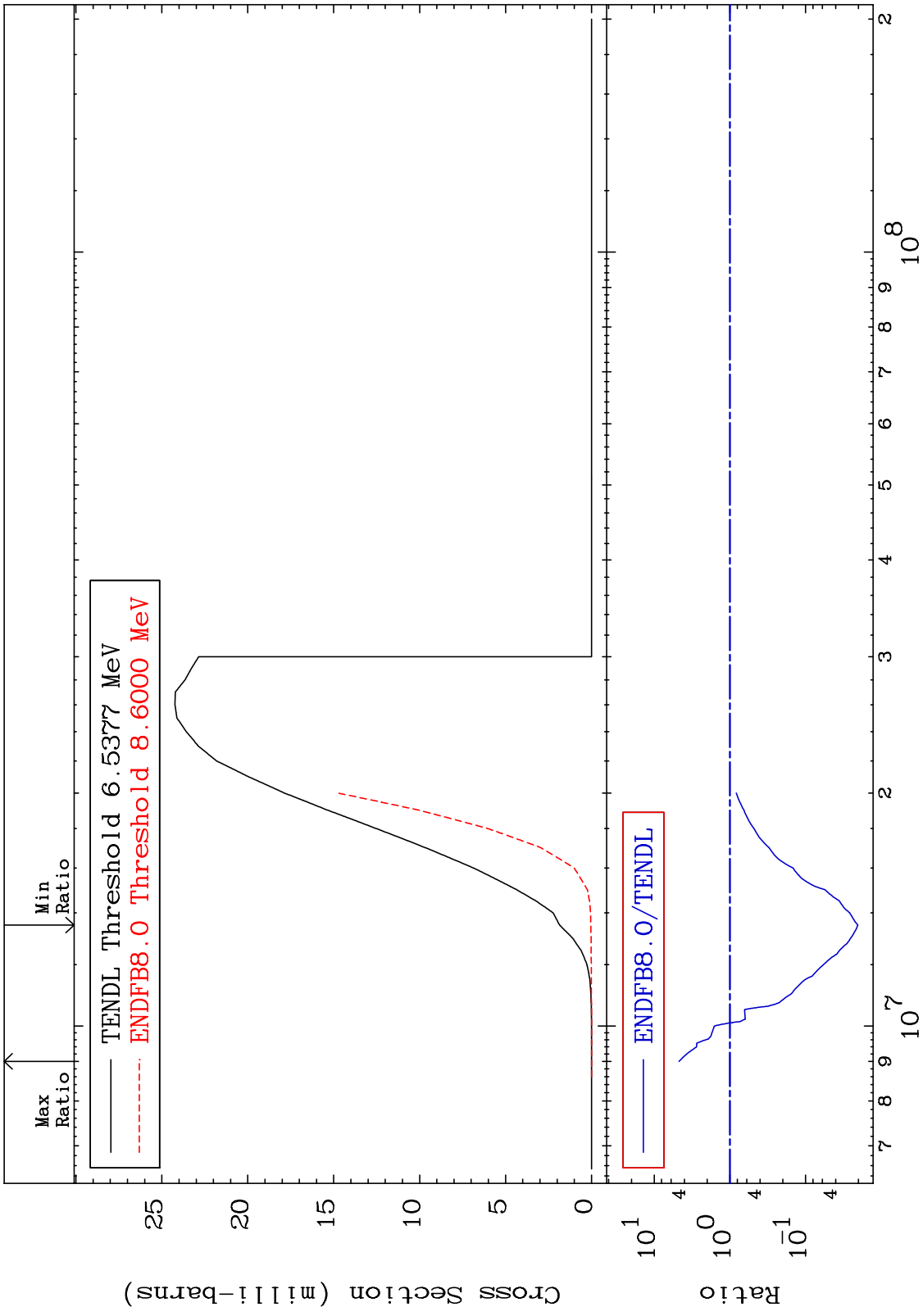
-99.96 To 9999. %



MAT 4028 (n,p) 40-Zr-91 -82.25 To 63.85 %



MAT 4028 (n,d) Cross Section 40-Zr-91 -97.96 To 370.2 %



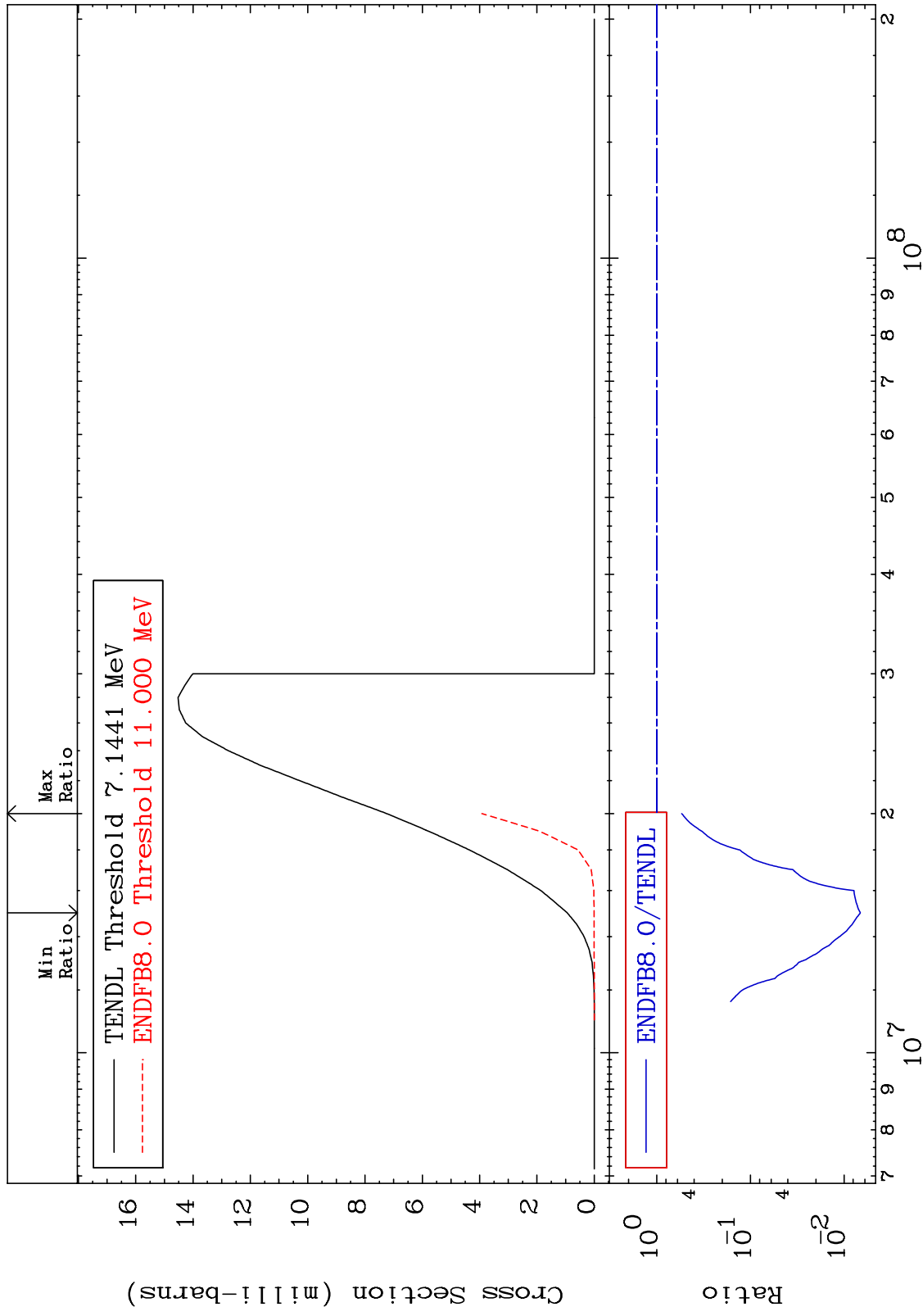
MAT 4028

(n,t)

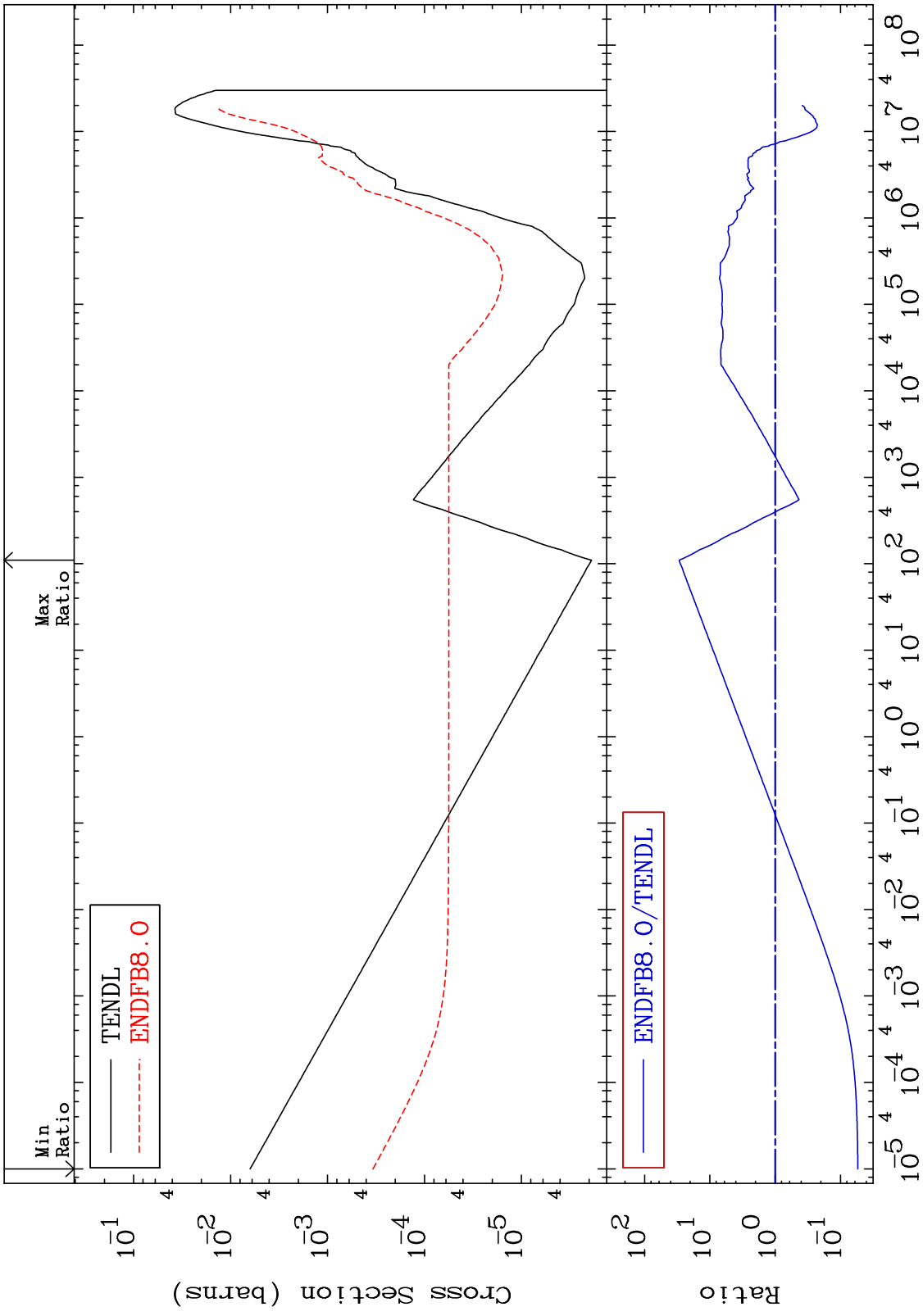
40-Zr-91

-99.33 To -45.82%

Cross Section

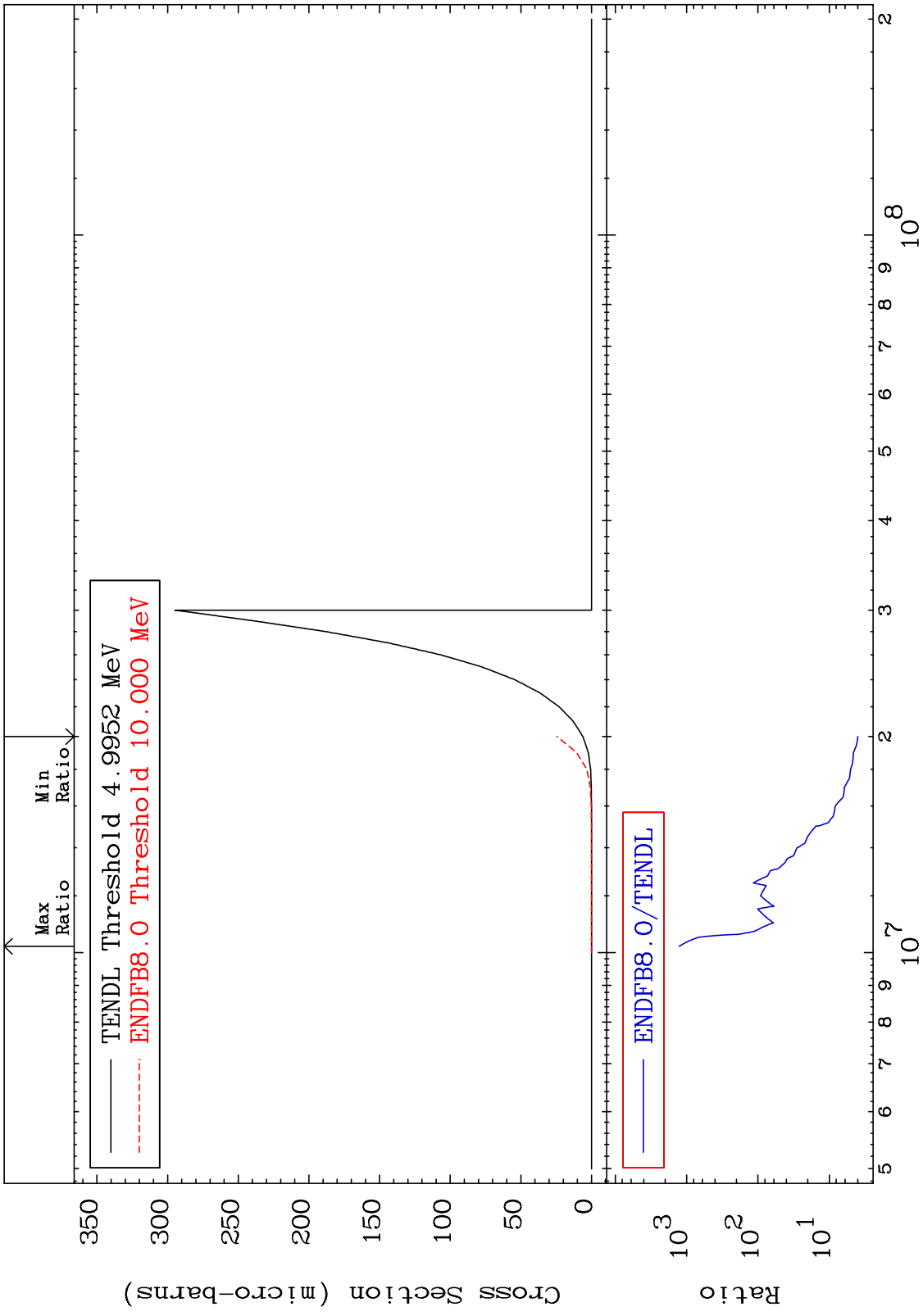


MAT 4028 (n, α) 40-Zr-91
Cross Section -94.59 To 2867. %



24 40-Zr-91

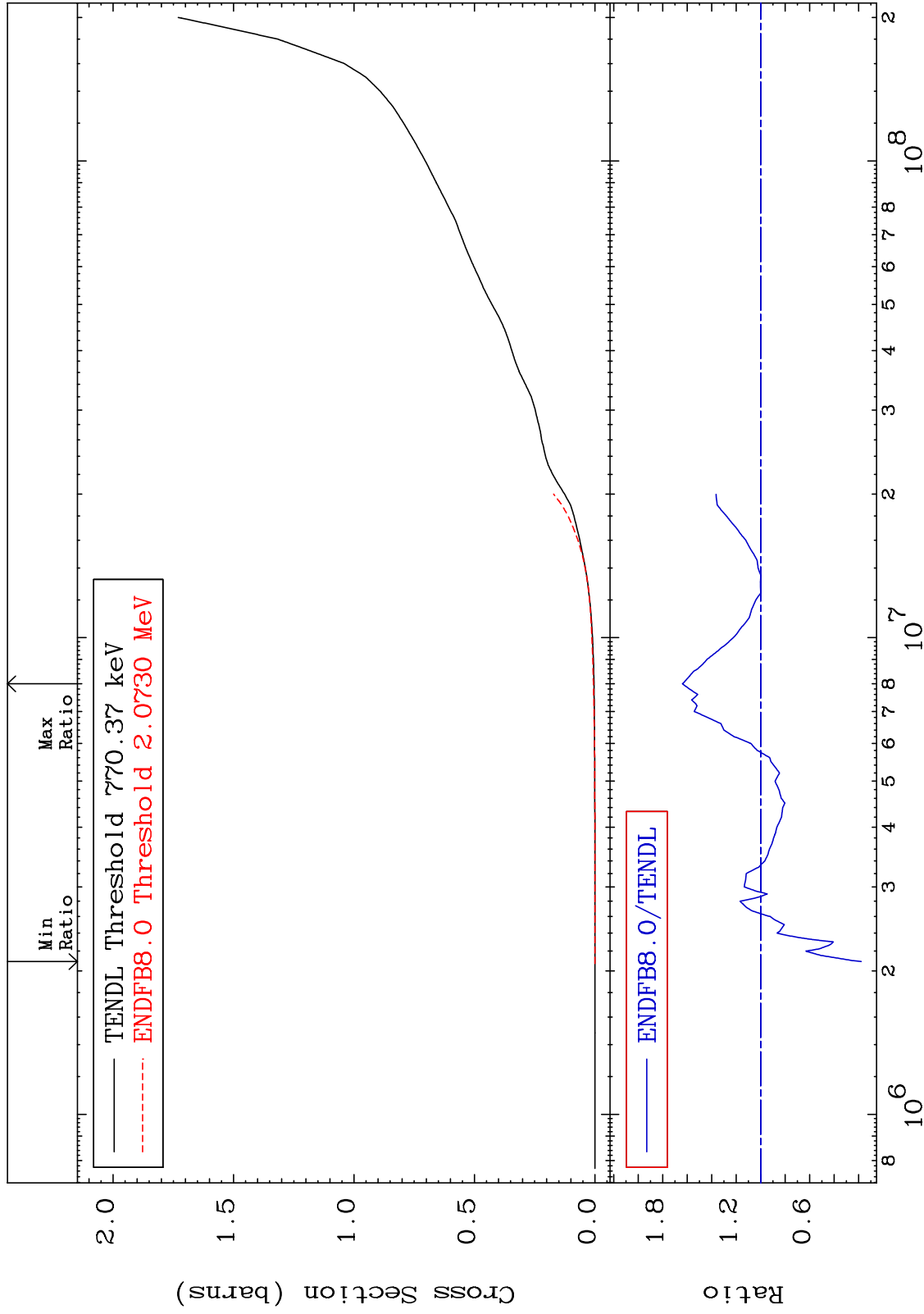
MAT 4028 (n,p) α 40-Zr-91
 Cross Section 298.0 To 9999. %



MAT 4028

Hydrogen Production
Cross Section

40-Zr-91
-82.25 To 63.85 %

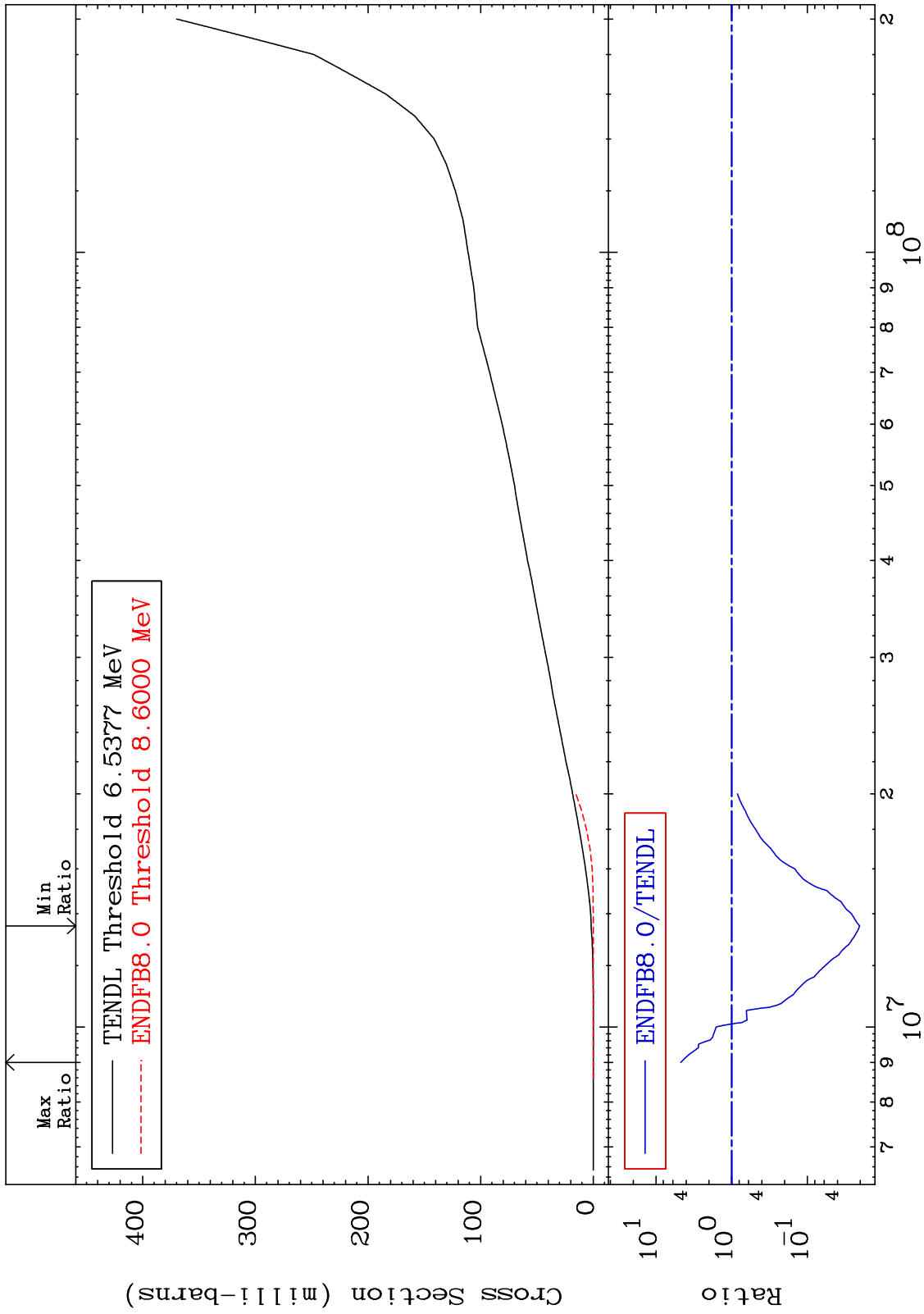


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Incident Energy (eV)

40-Zr-91

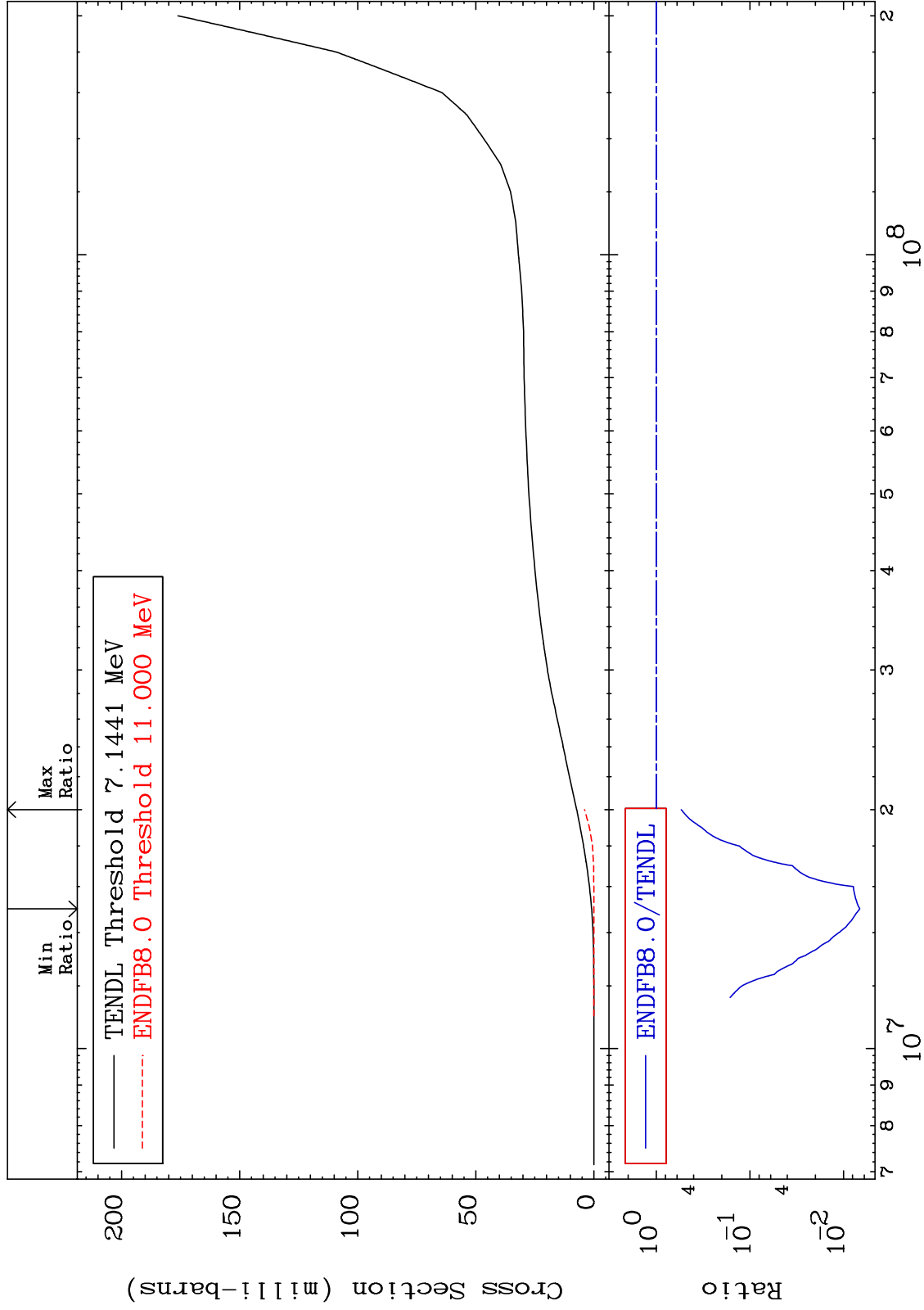
MAT 4028 Deuterium Production Cross Section 40-Zr-91 -97.96 To 370.2 %



MAT 4028

Tritium Production
Cross Section

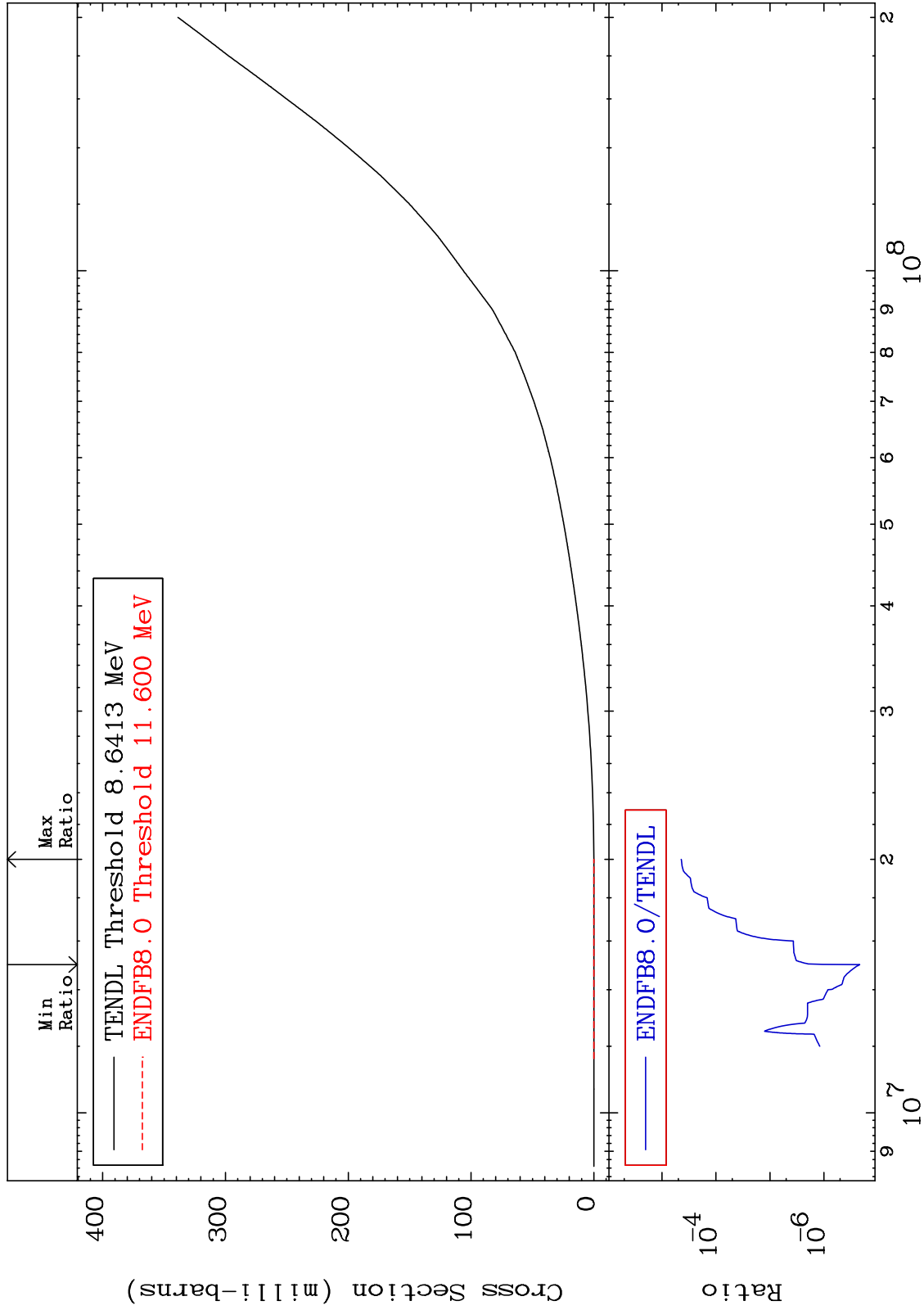
40-Zr-91
-99.33 To -45.82%



MAT 4028

He-3 Production
Cross Section

40-Zr-91
-100.0 To -99.96%

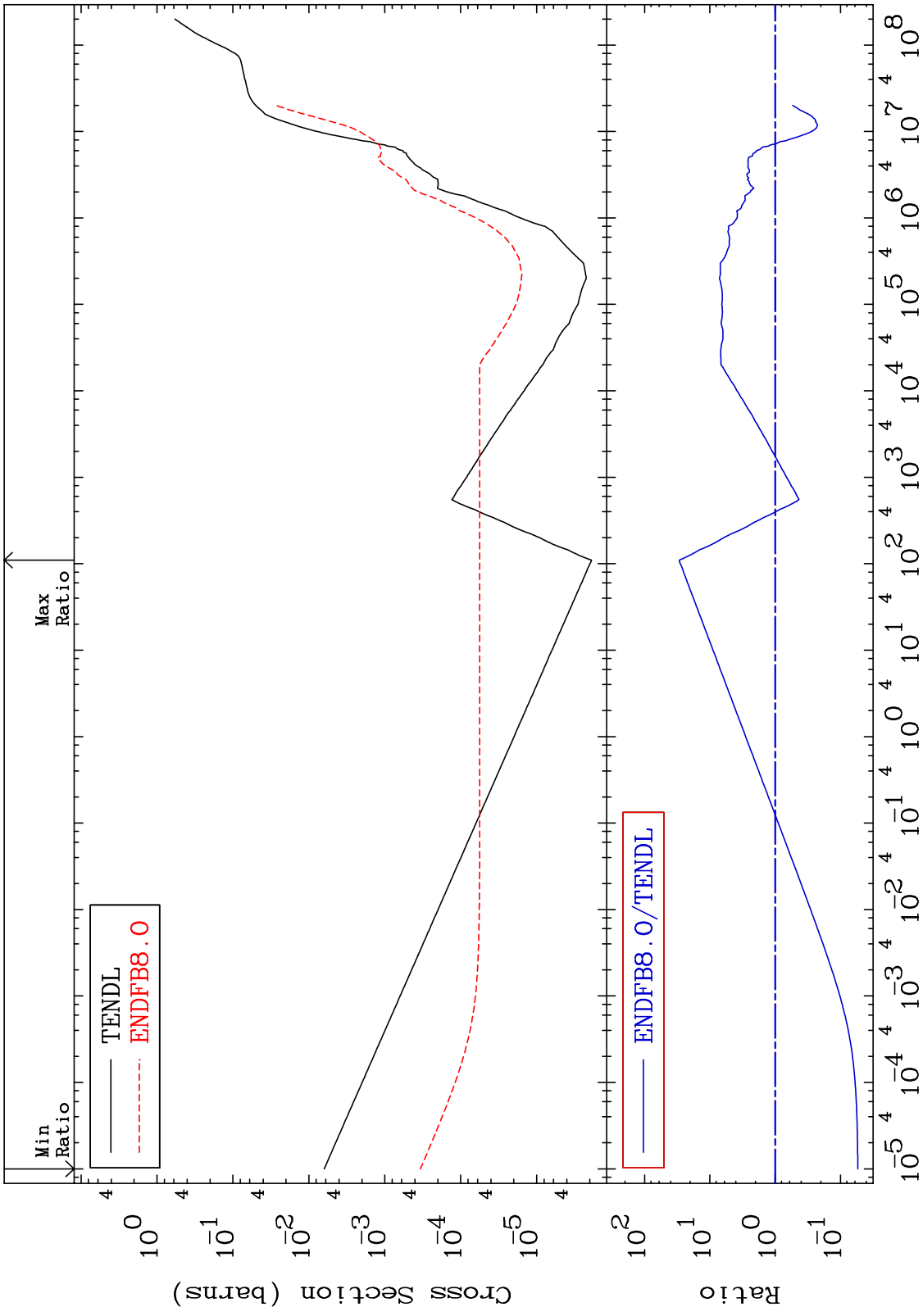


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Incident Energy (eV)

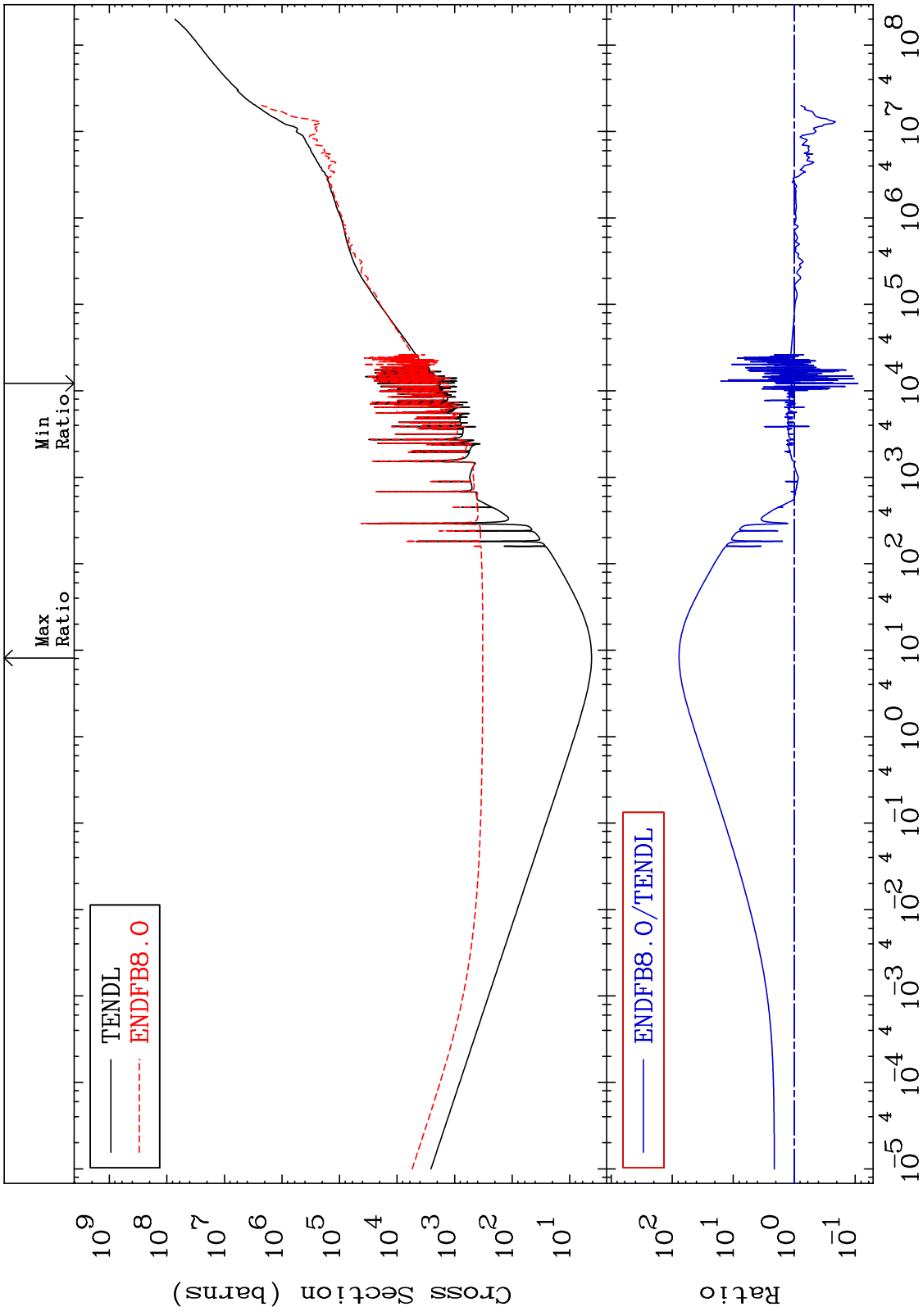
40-Zr-91

MAT 4028 He-4 Production 40-Zr-91
Cross Section -94.59 To 2867. %



30 40-Zr-91

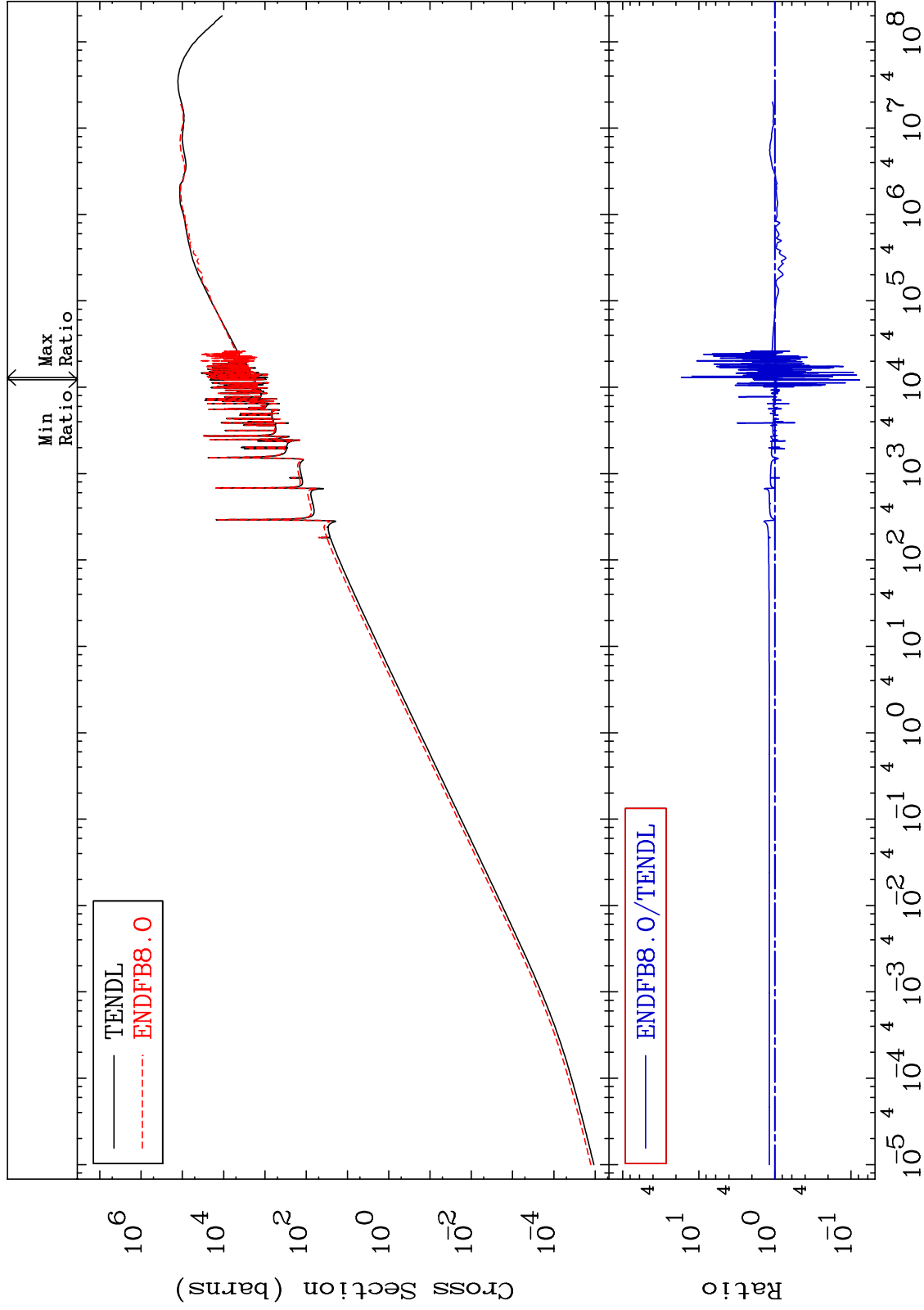
MAT 4028 Kerma total (eV-barns) Cross Section 40-Zr-91
 -90.94 To 7645. %



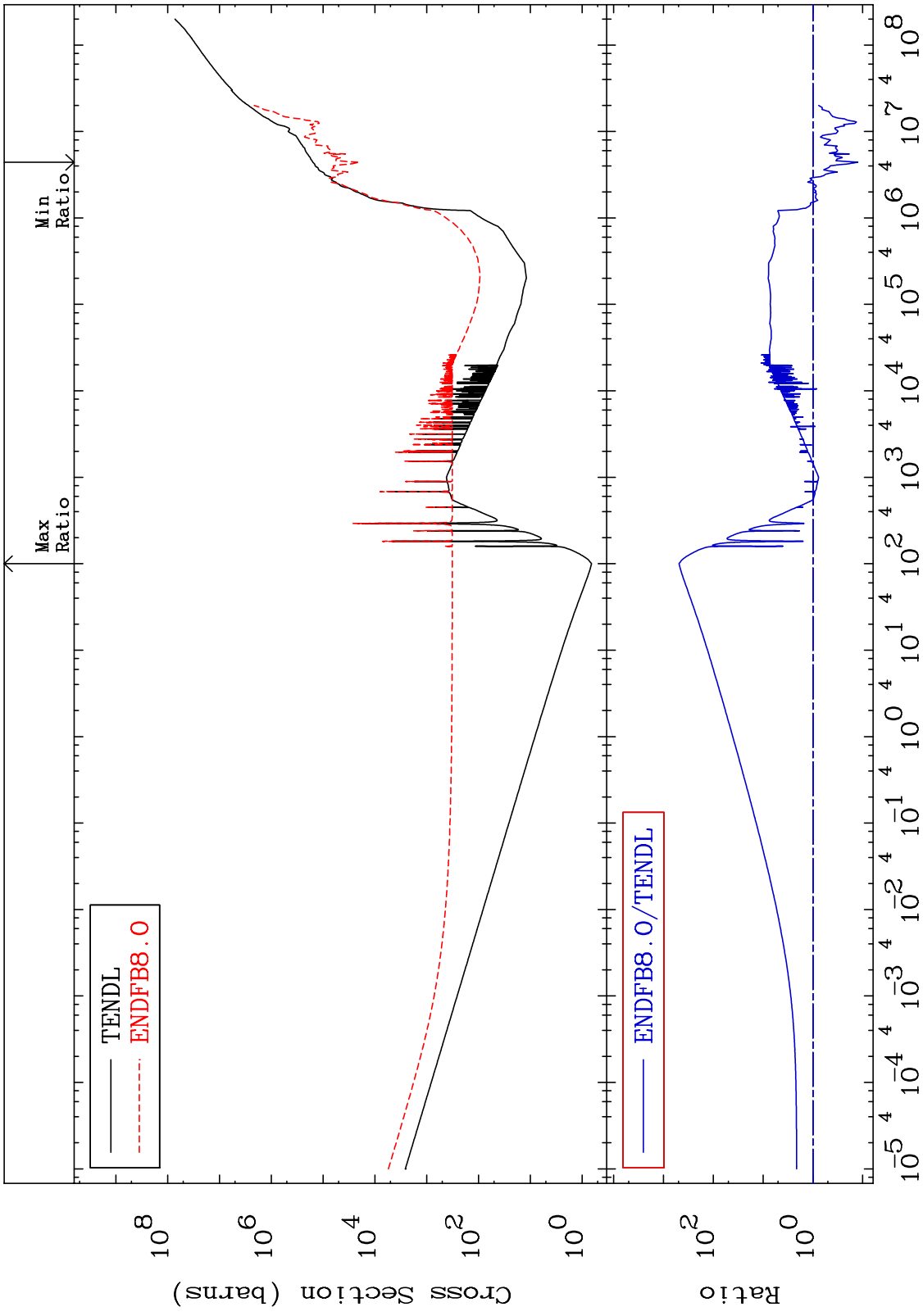
MAT 4028

Kerma elastic
Cross Section

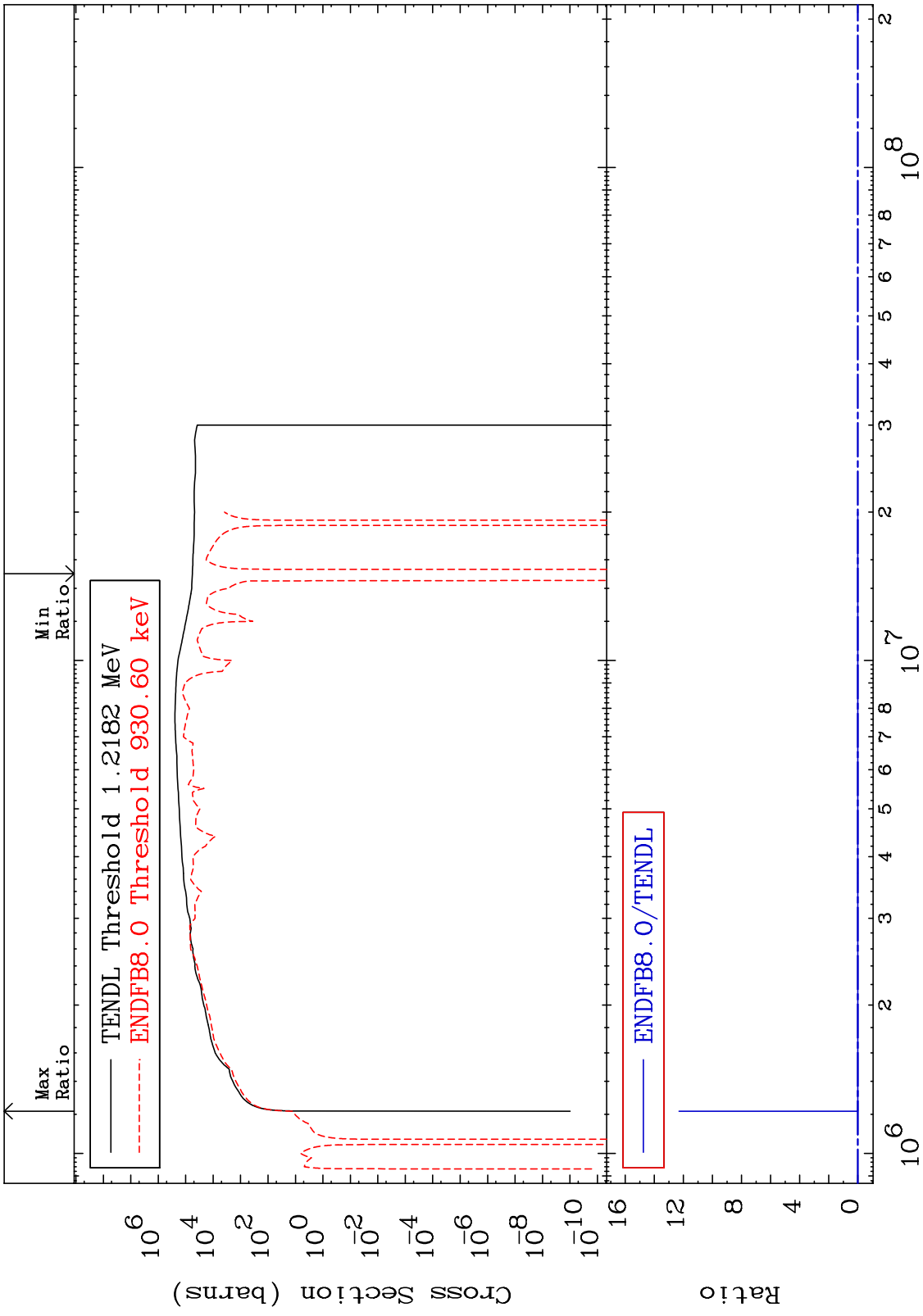
40-Zr-91
-92.33 To 1600. %



MAT 4028 Kerma non-elastic (all but mt2) 40-Zr-91
 -87.49 To 9999. %
 Cross Section



MAT 4028 Kerma inelastic (mt51-91) 40-Zr-91
 -114.1 To 9999. %
 Cross Section

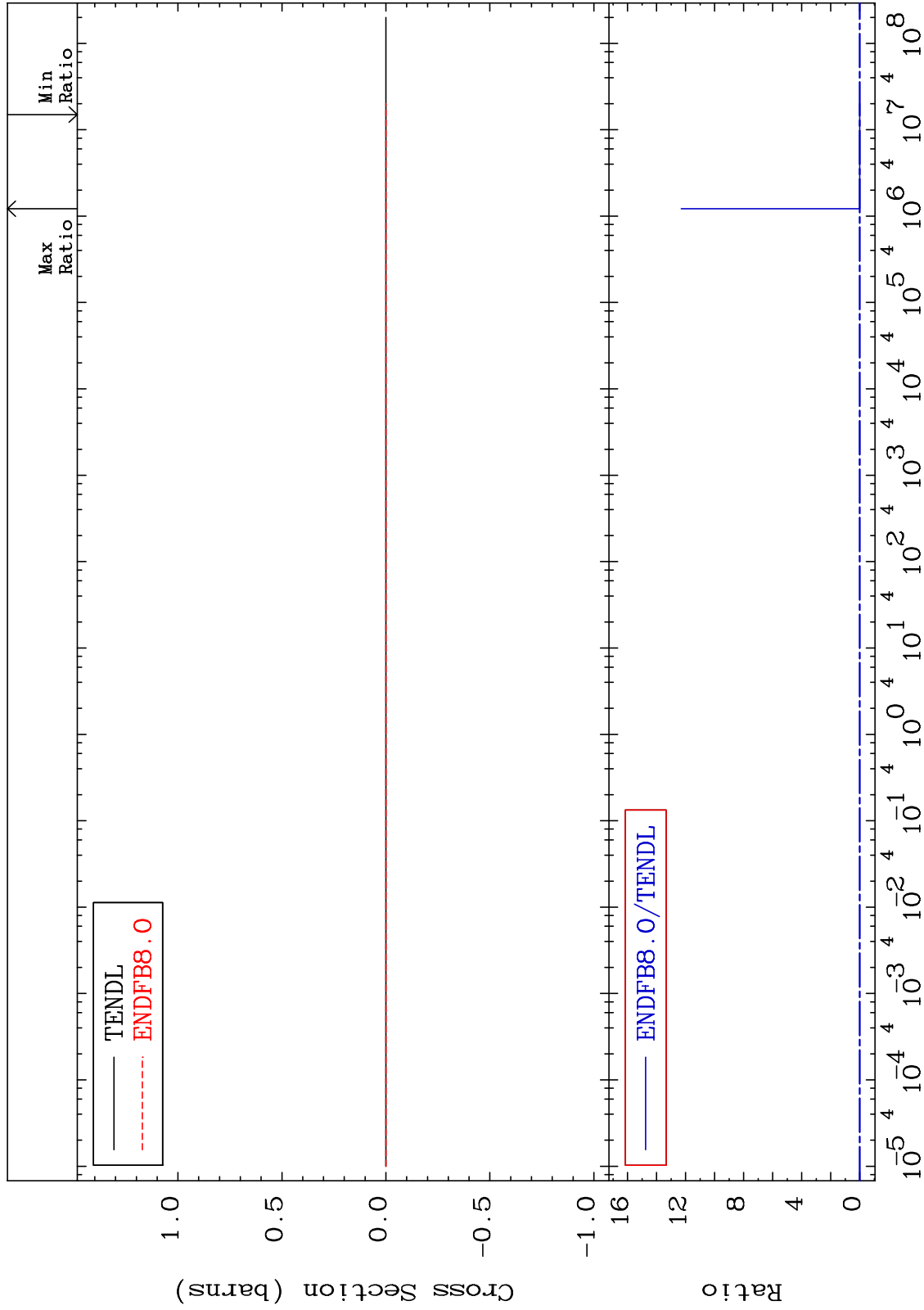


34 Incident Energy (eV) 40-Zr-91

MAT 4028

Kerma fission (mt18 or mt19-20-21-38)
Cross Section

40-Zr-91
-114.1 To 9999. %

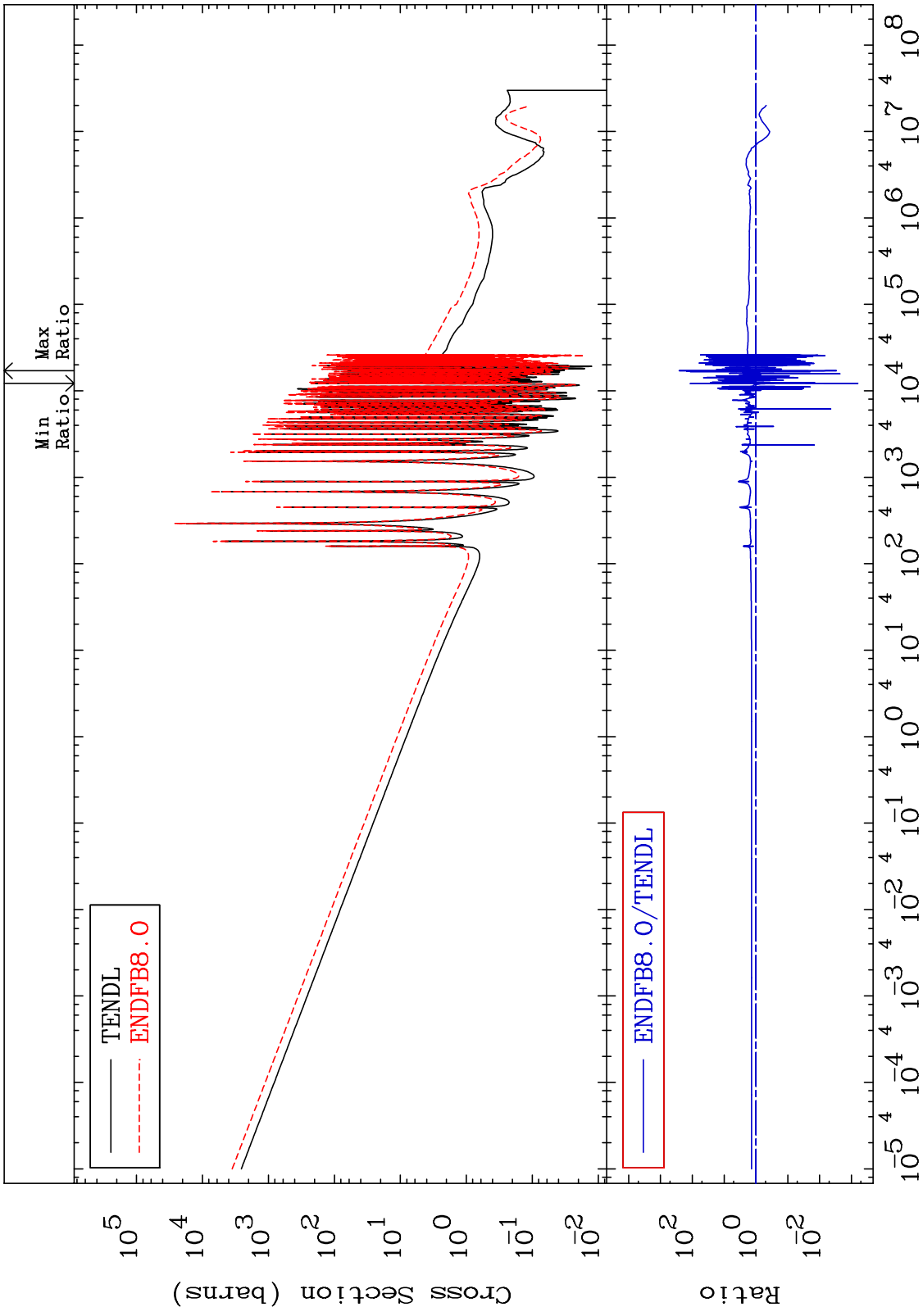


35

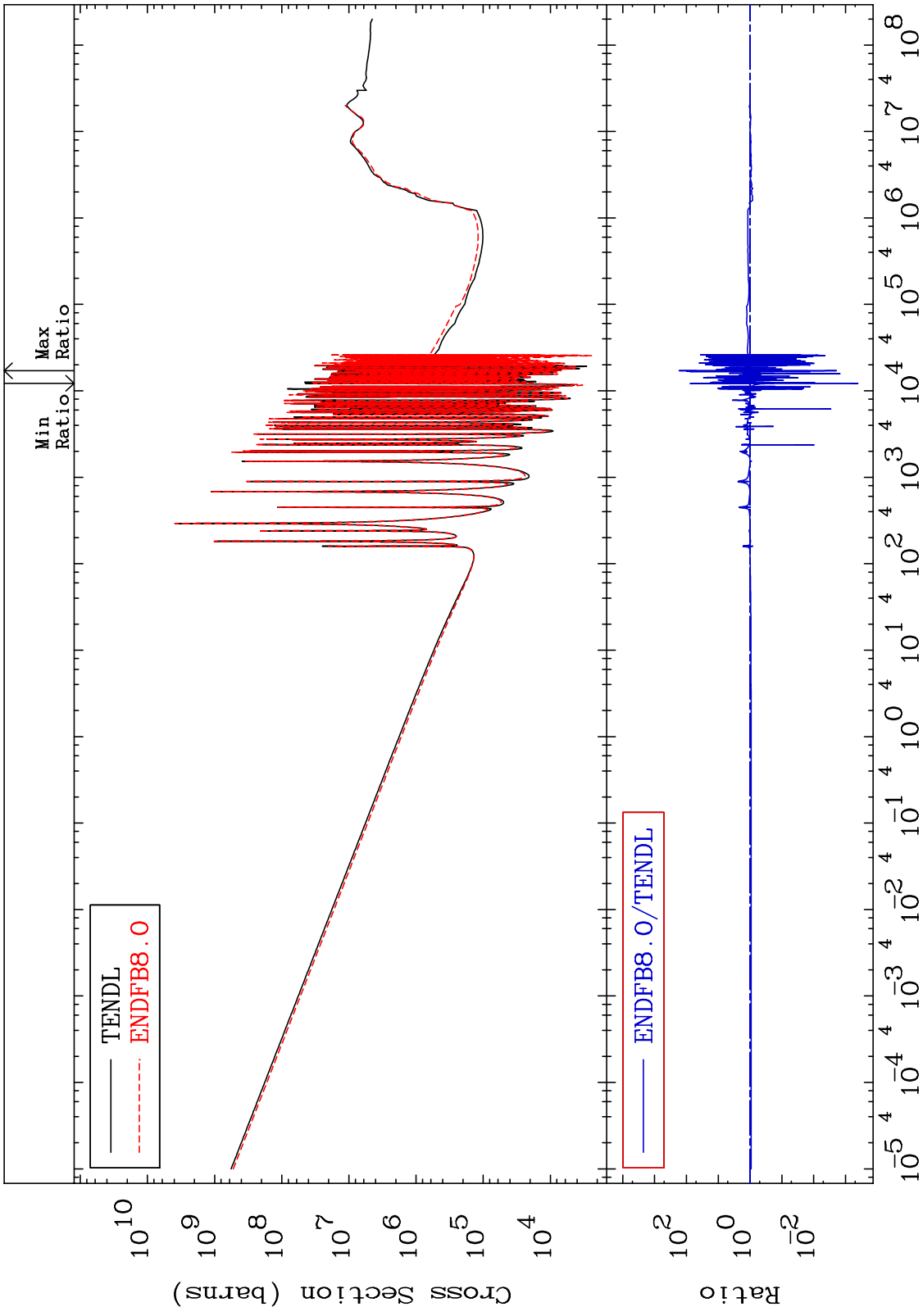
Incident Energy (eV)

40-Zr-91

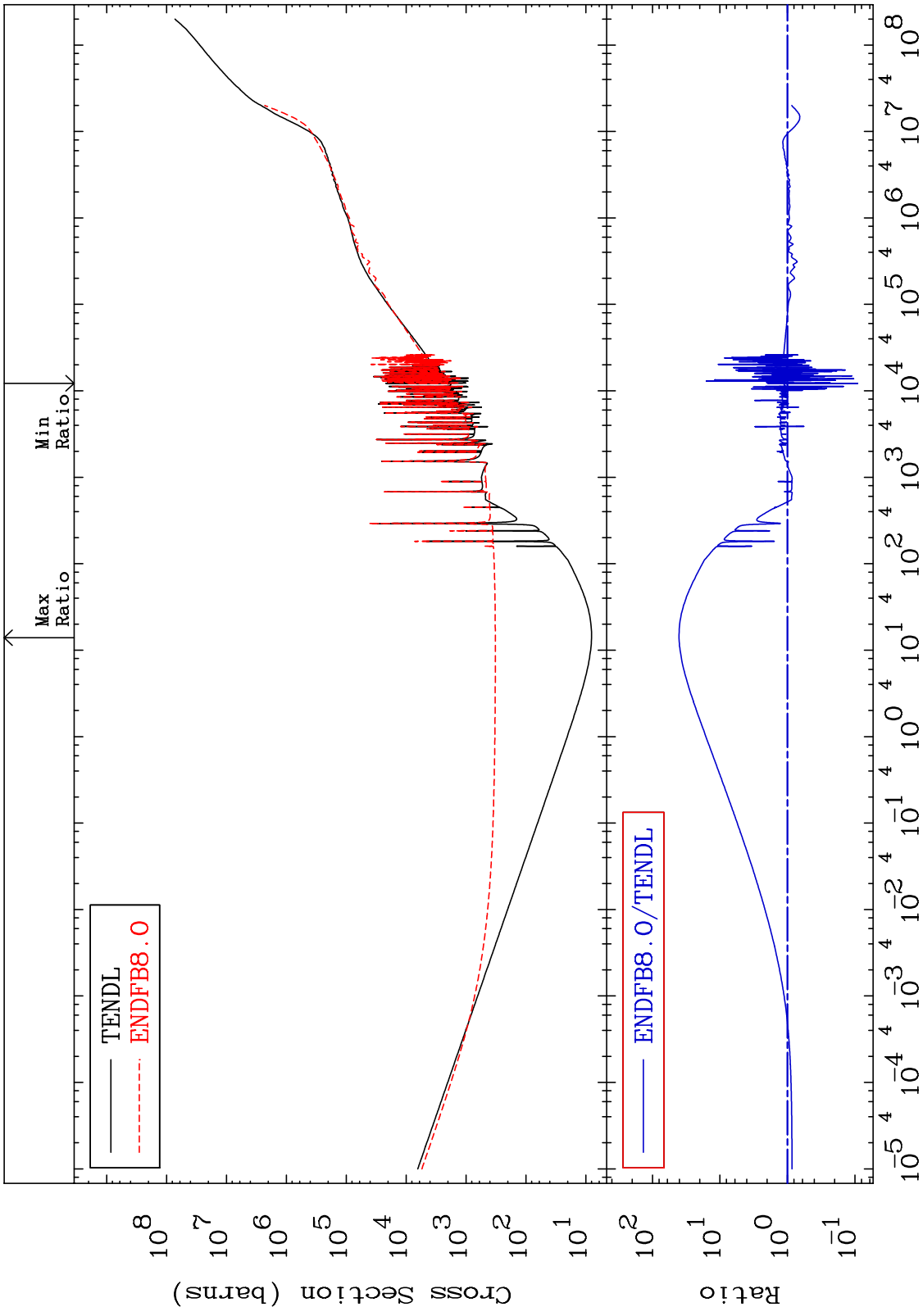
MAT 4028 Kerma capture (mt102) 40-Zr-91
 Cross Section -99.94 To 9999. %

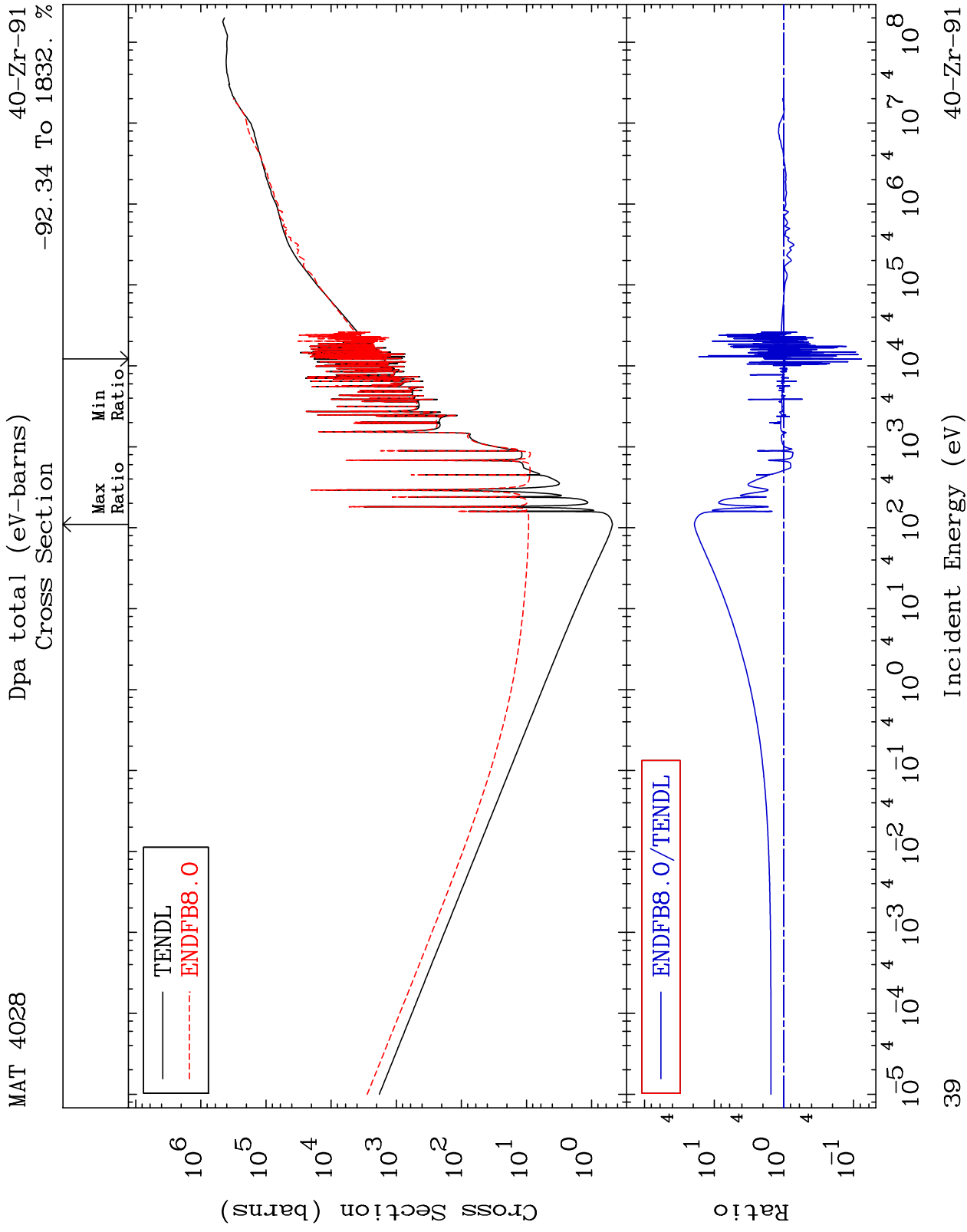


MAT 4028 40-Zr-91
 Total photon (eV-barns) -99.96 To 9999. %
 Cross Section

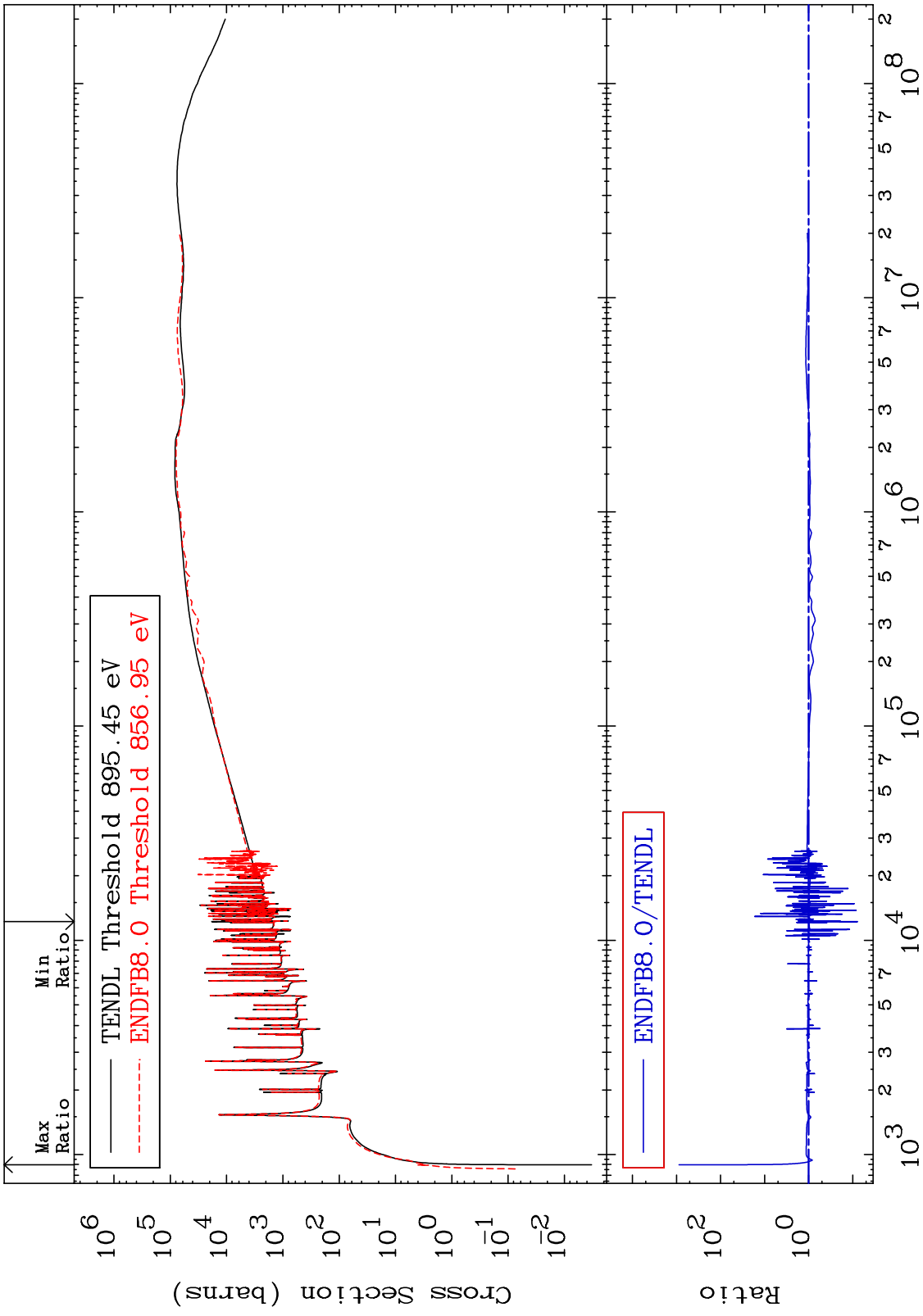


MAT 4028 Total kinematic kerma (high limit) 40-Zr-91
 Cross Section -90.94 To 3938. %



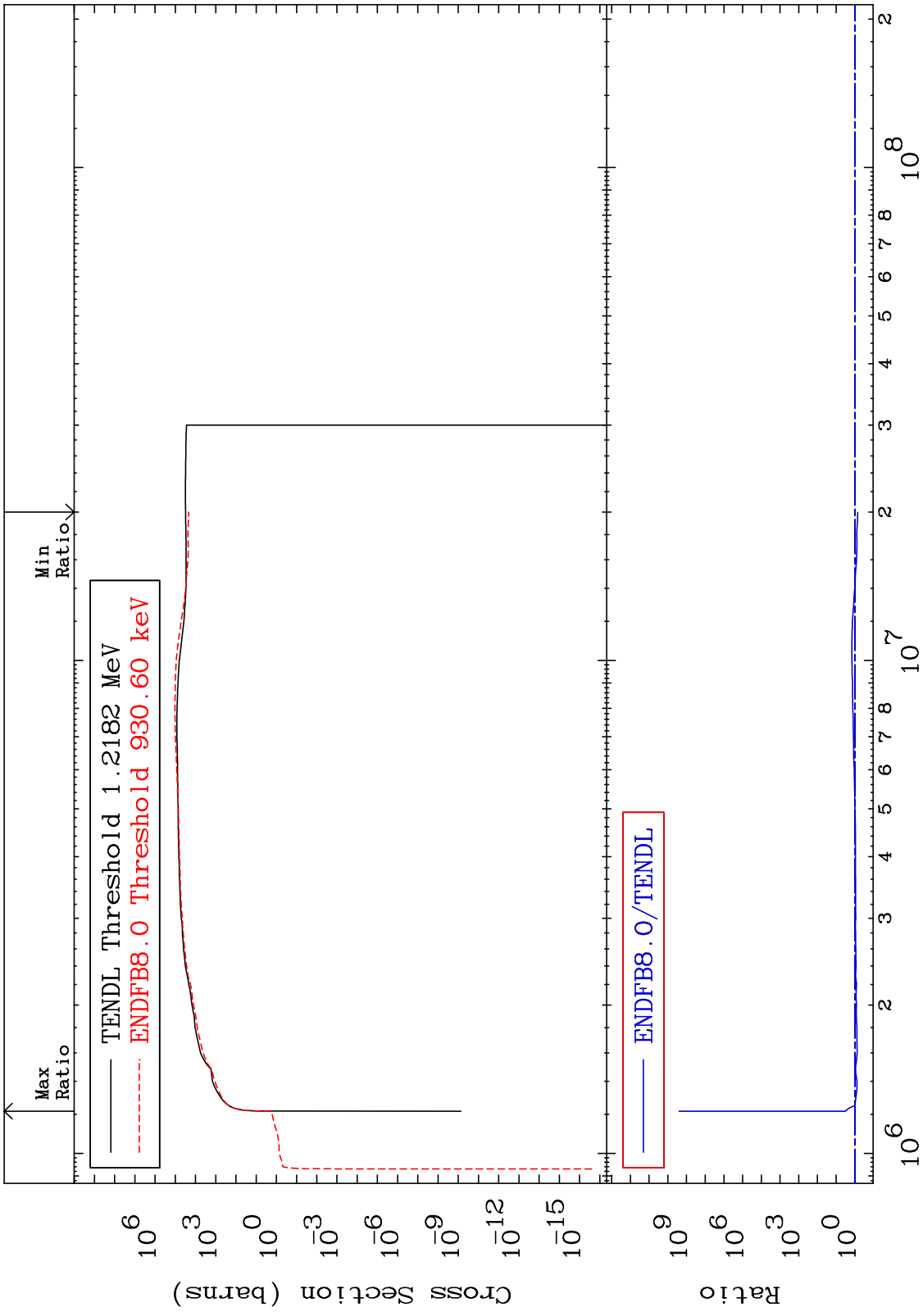


MAT 4028 40-Zr-91 -92.33 To 9999. %
Dpa elastic (mt2)
Cross Section

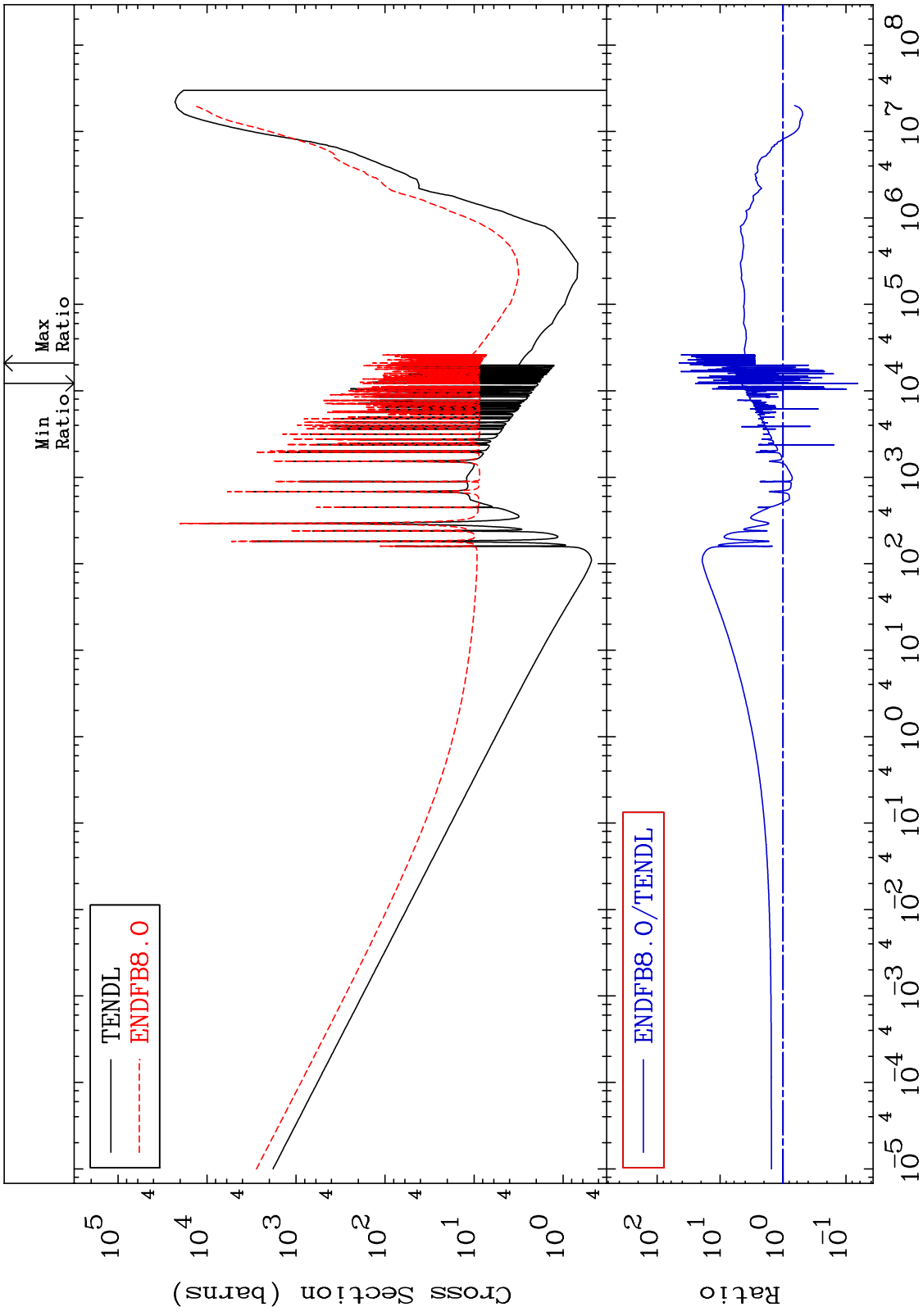


40
40-Zr-91

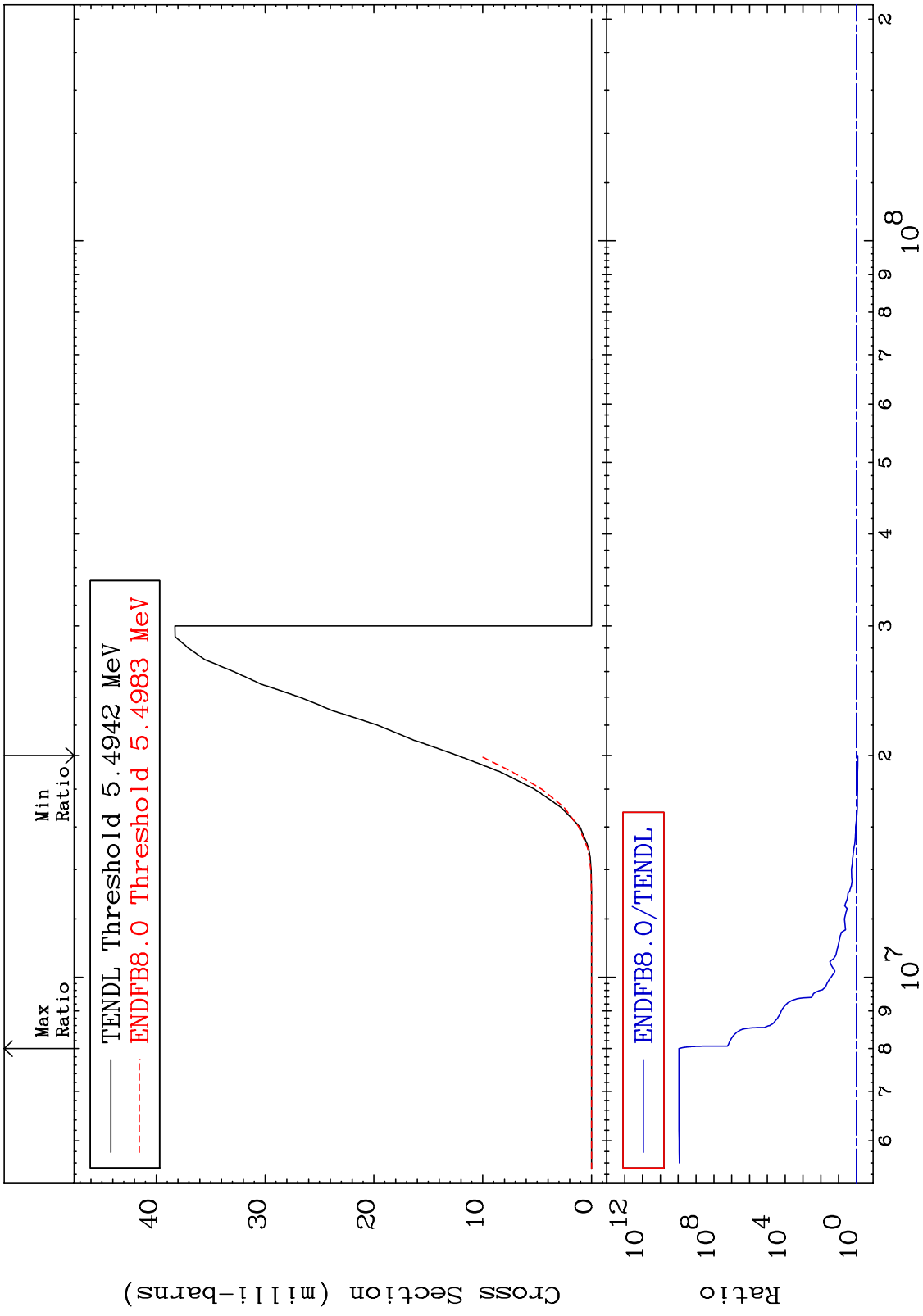
MAT 4028 Dpa inelastic (mt51-91) 40-Zr-91
 Cross Section -30.78 To 9999. %



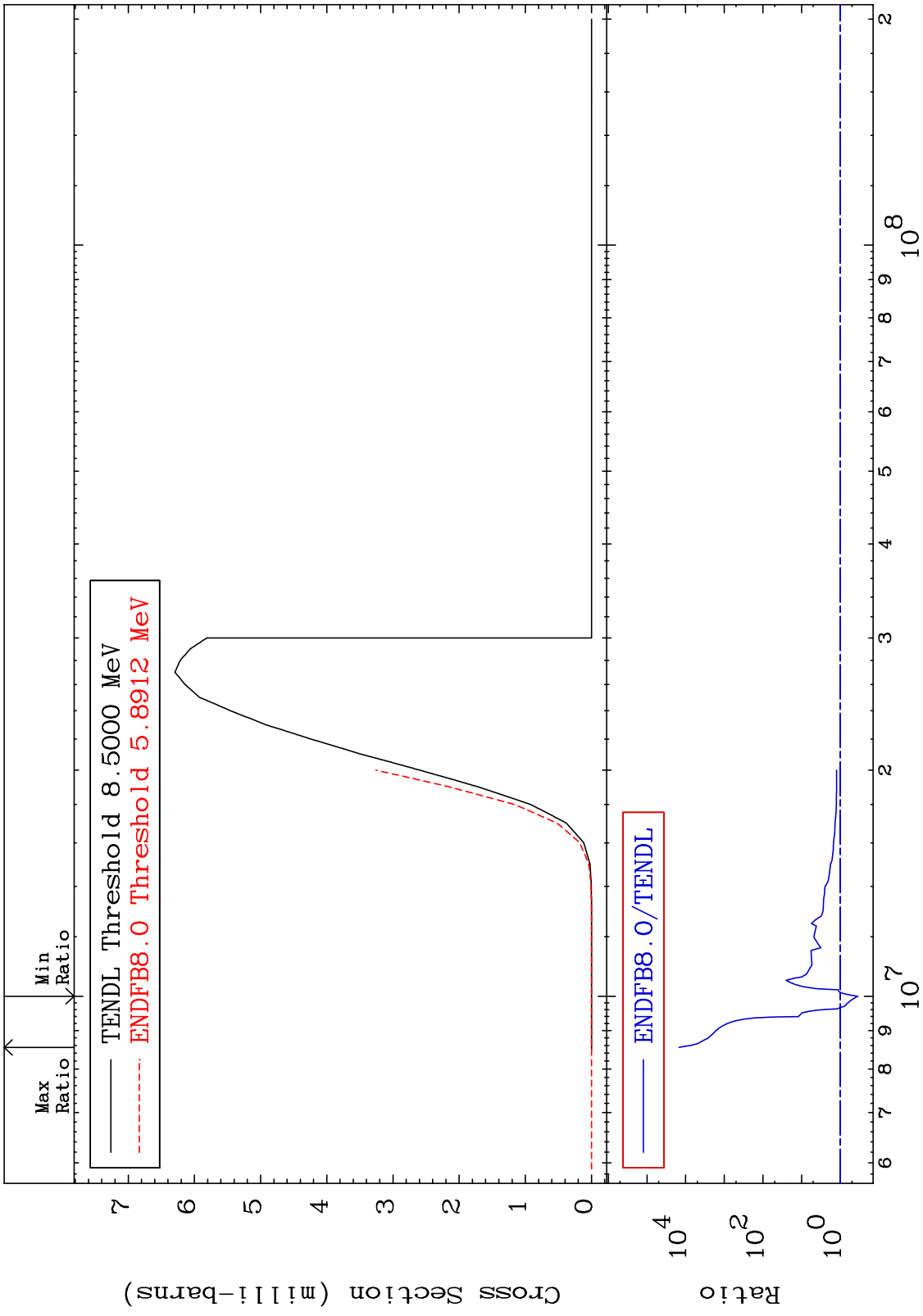
MAT 4028 Dpa disappearance (mt102 -120) 40-Zr-91
 Cross Section -93.51 To 4384. %



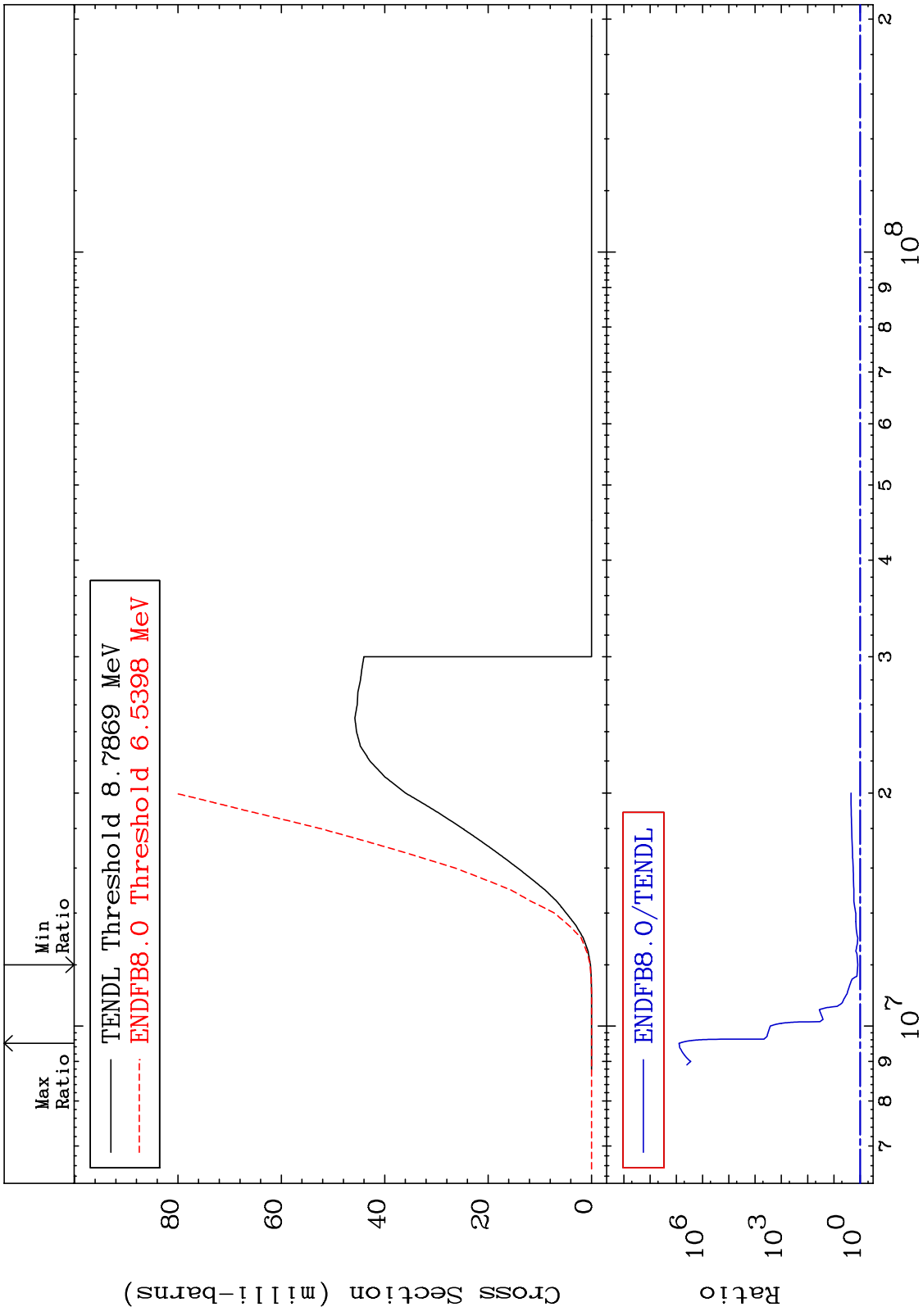
MAT 4028 (n, n') α: 38-Sr-87g 40-Zr-91
 Radionuclide Production Cross Section -16.18 To 9999. %



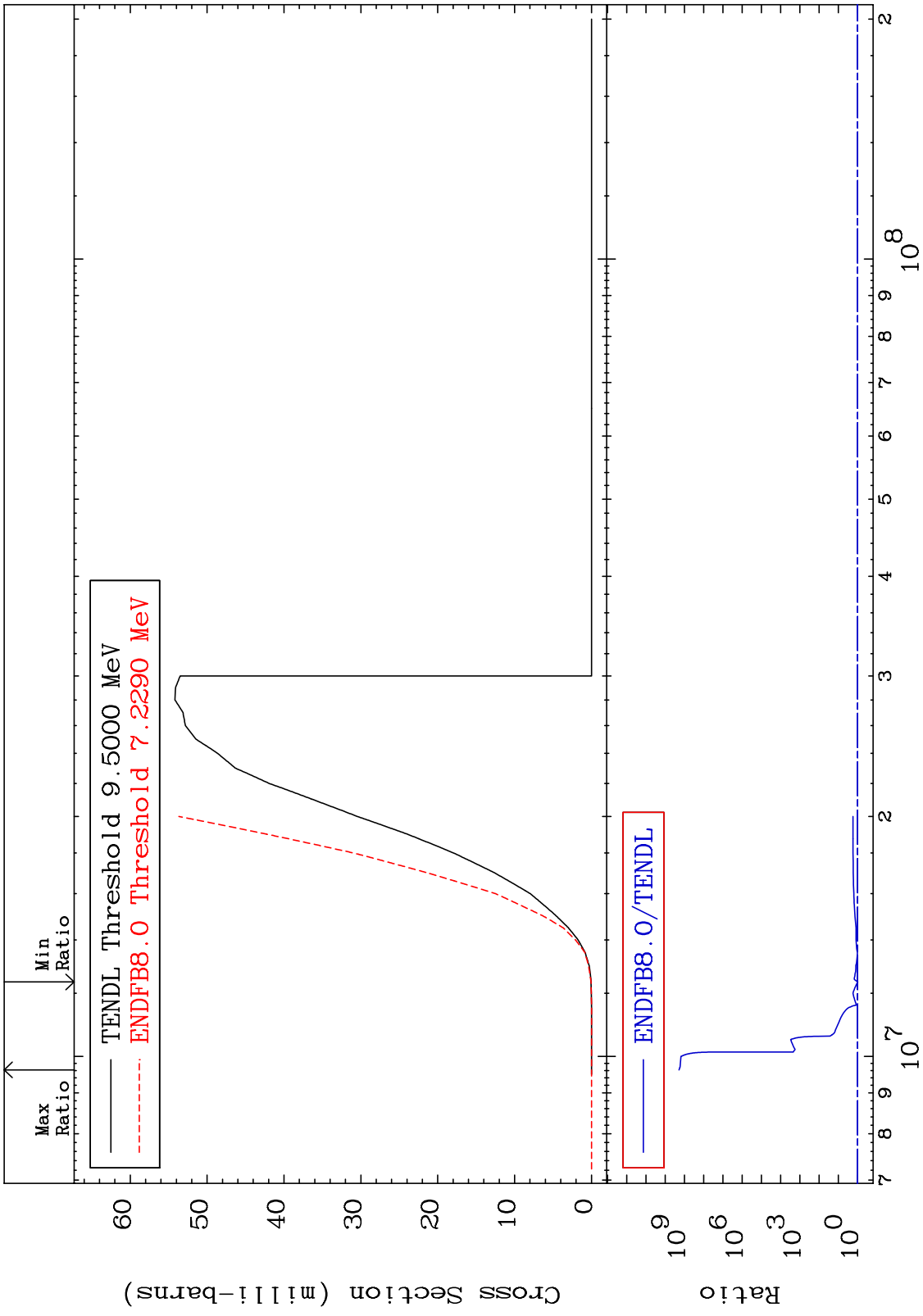
MAT 4028 (n, n') α :38-Sr-87m1 40-Zr-91
 Radionuclide Production Cross Section -64.75 To 9999. %



MAT 4028 (n,n') p:39-Y -90g 40-Zr-91
 Radionuclide Production Cross Section 22.83 To 9999. %

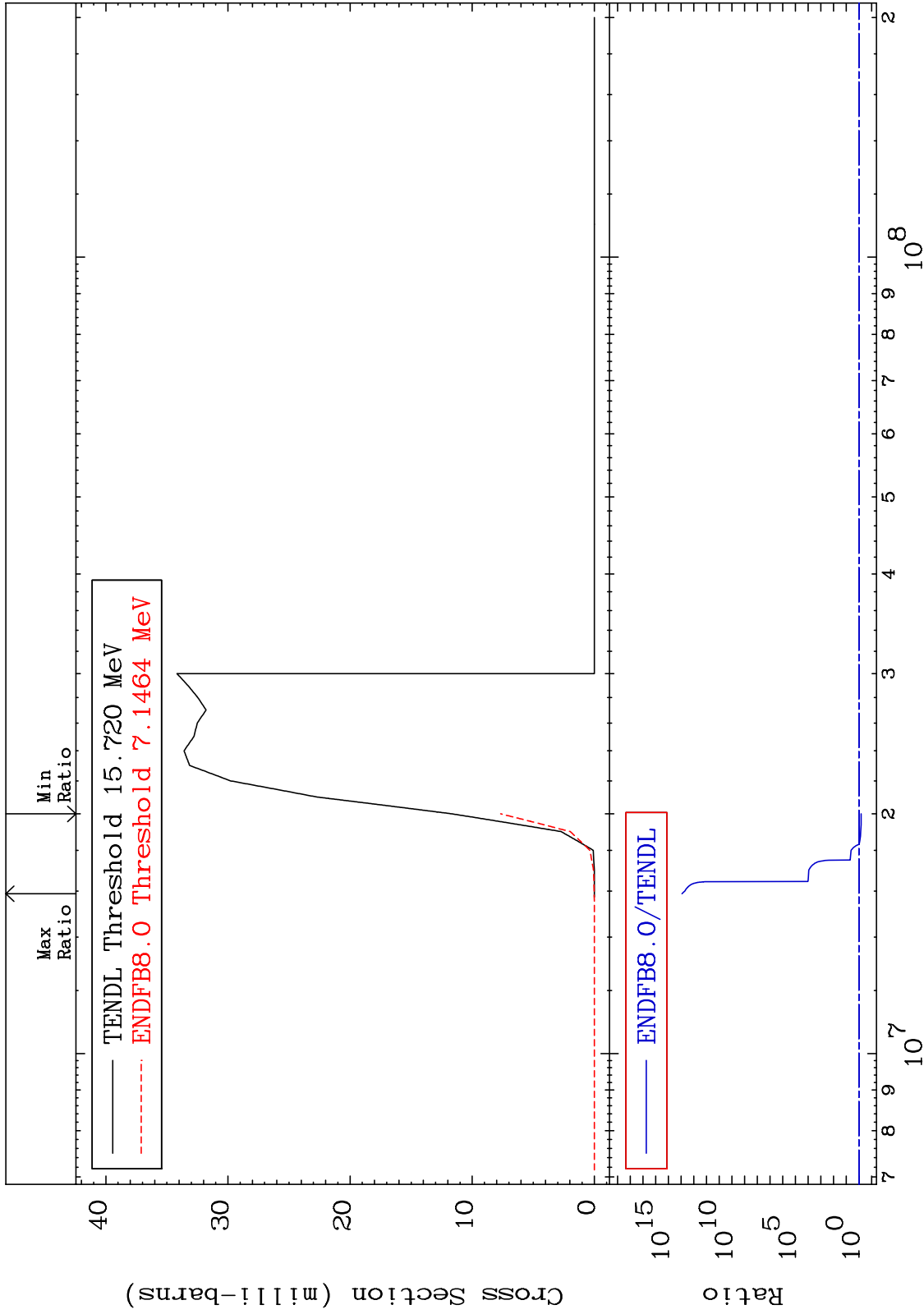


MAT 4028 (n,n') p:39-Y -90m2 40-Zr-91
 Radionuclide Production Cross Section -2.579 To 9999. %



MAT 4028

(n,2n) p:39-Y -89g 40-Zr-91
Radionuclide Production Cross Section -34.22 To 9999. %



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Incident Energy (eV)

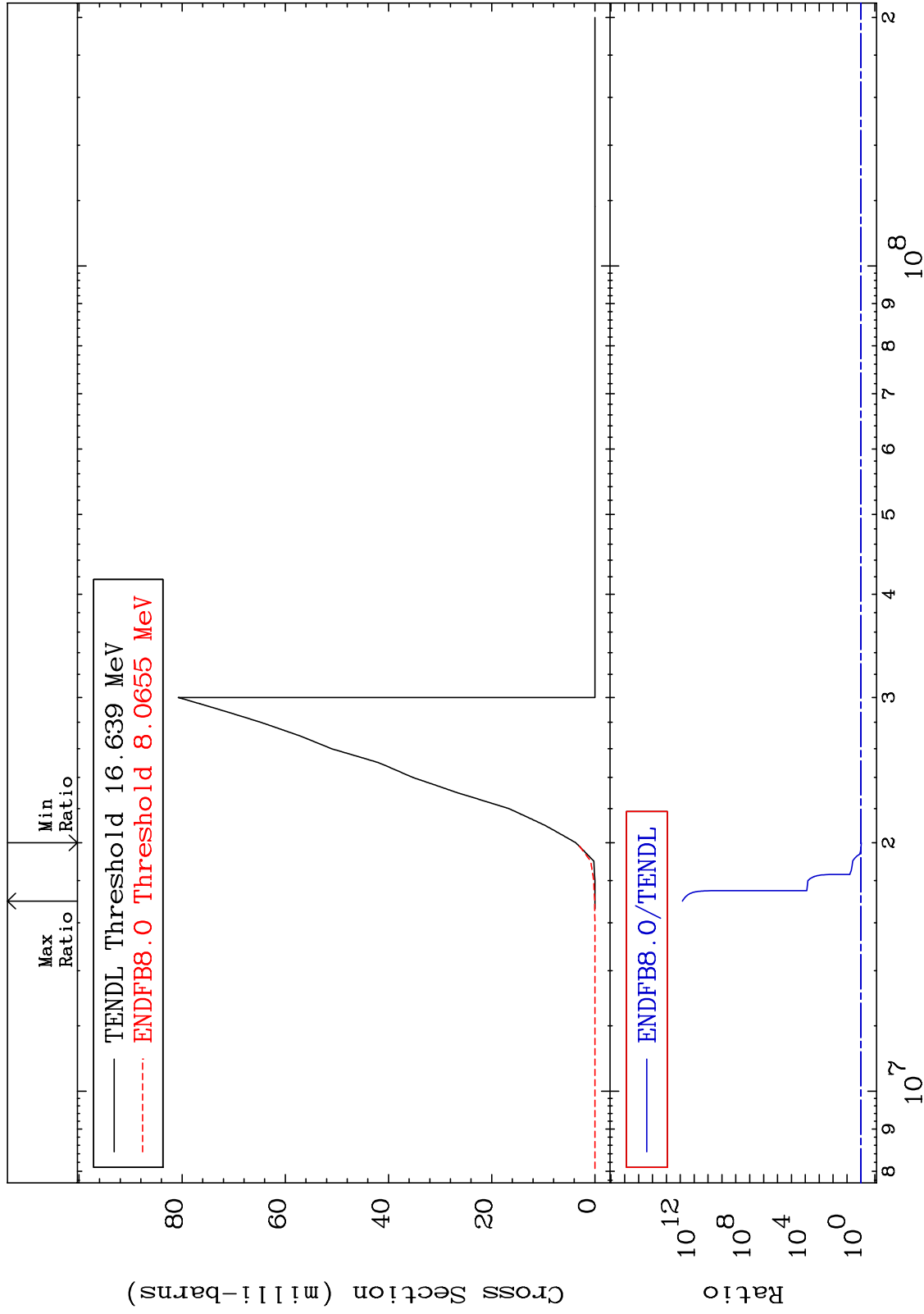
40-Zr-91

MAT 4028

(n,2n) p:39-Y -89m1

40-Zr-91

Radionuclide Production Cross Section -6.068 To 9999. %



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