

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

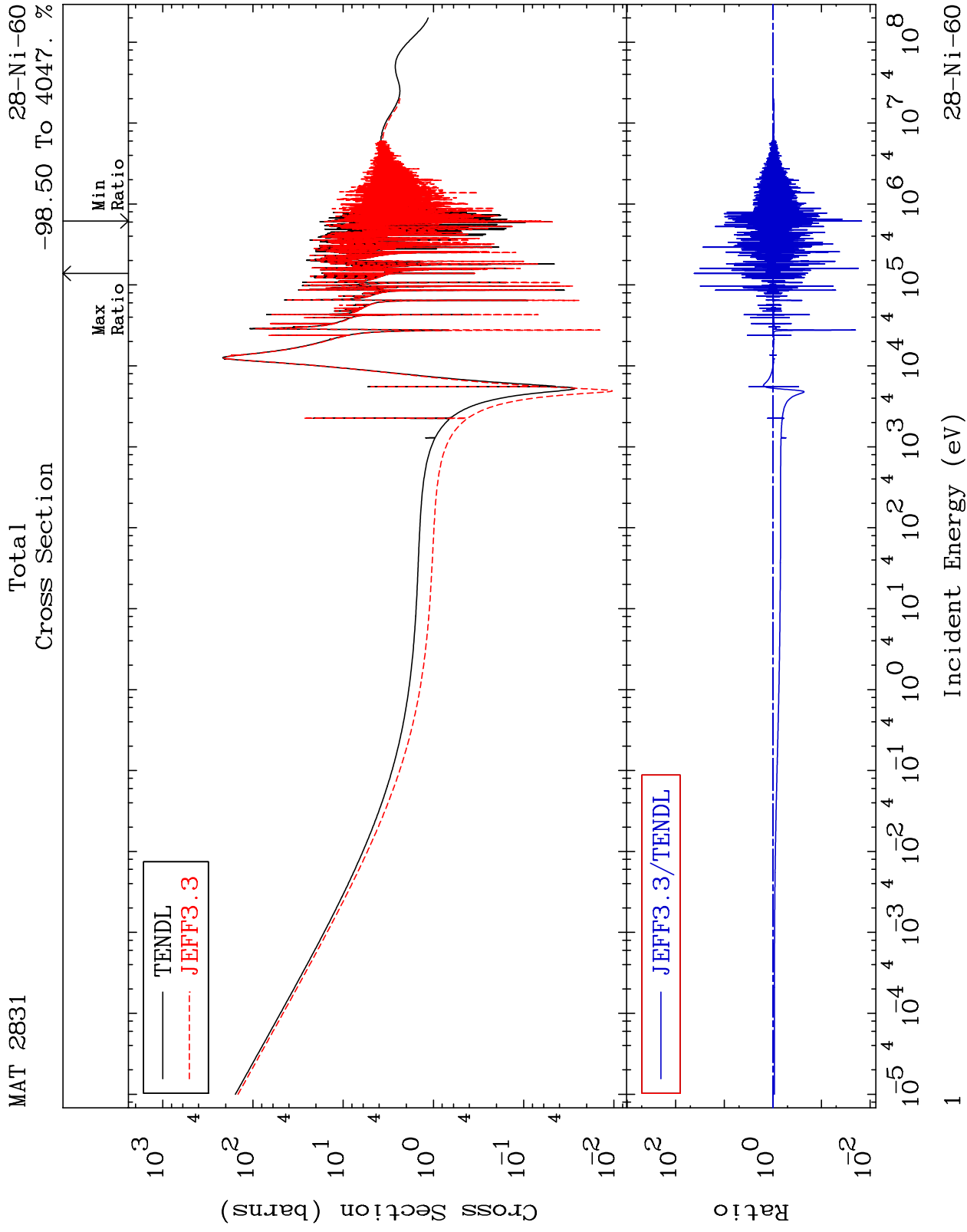
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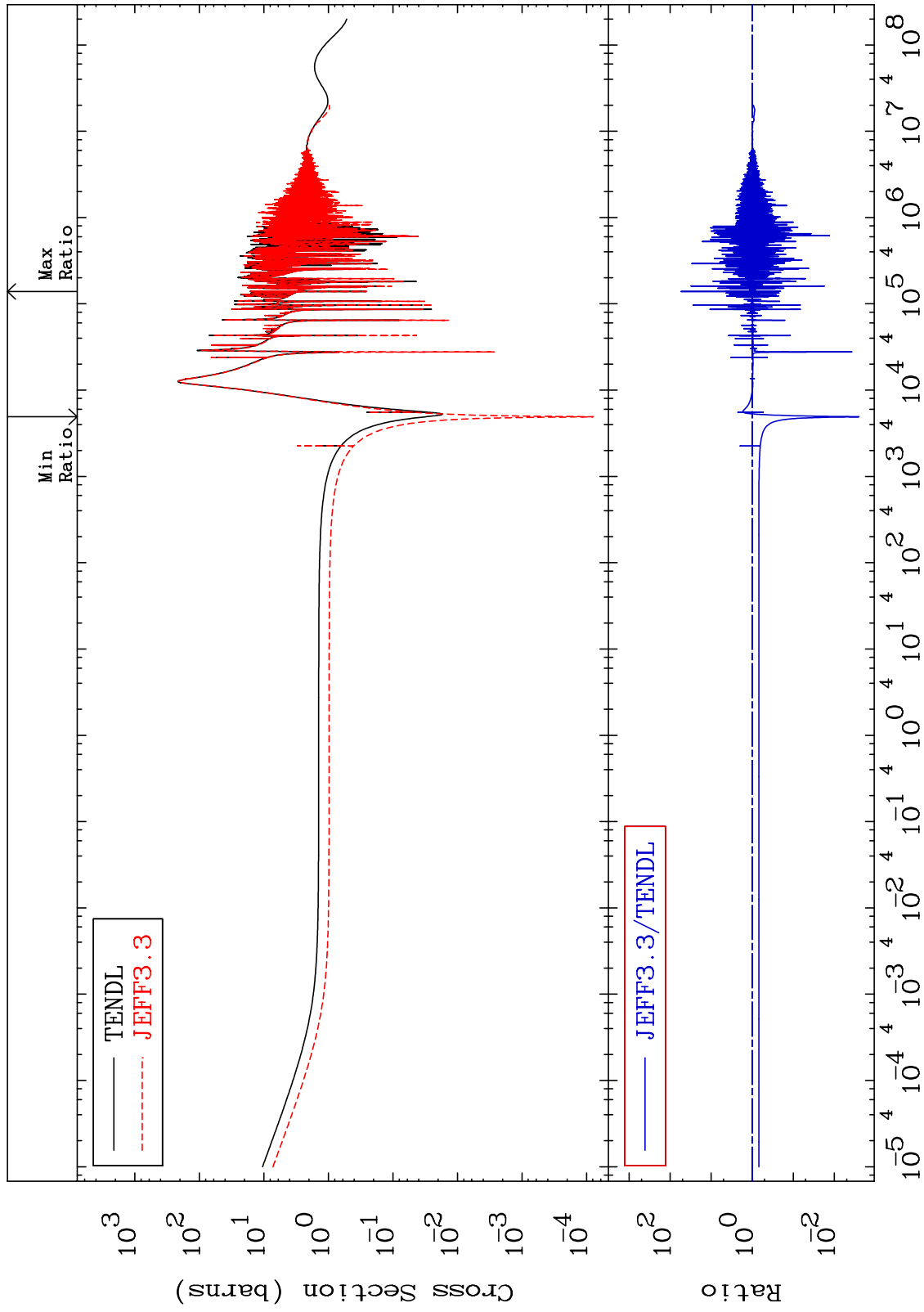
Press Mouse Button to Start



MAT 2831

Elastic
Cross Section

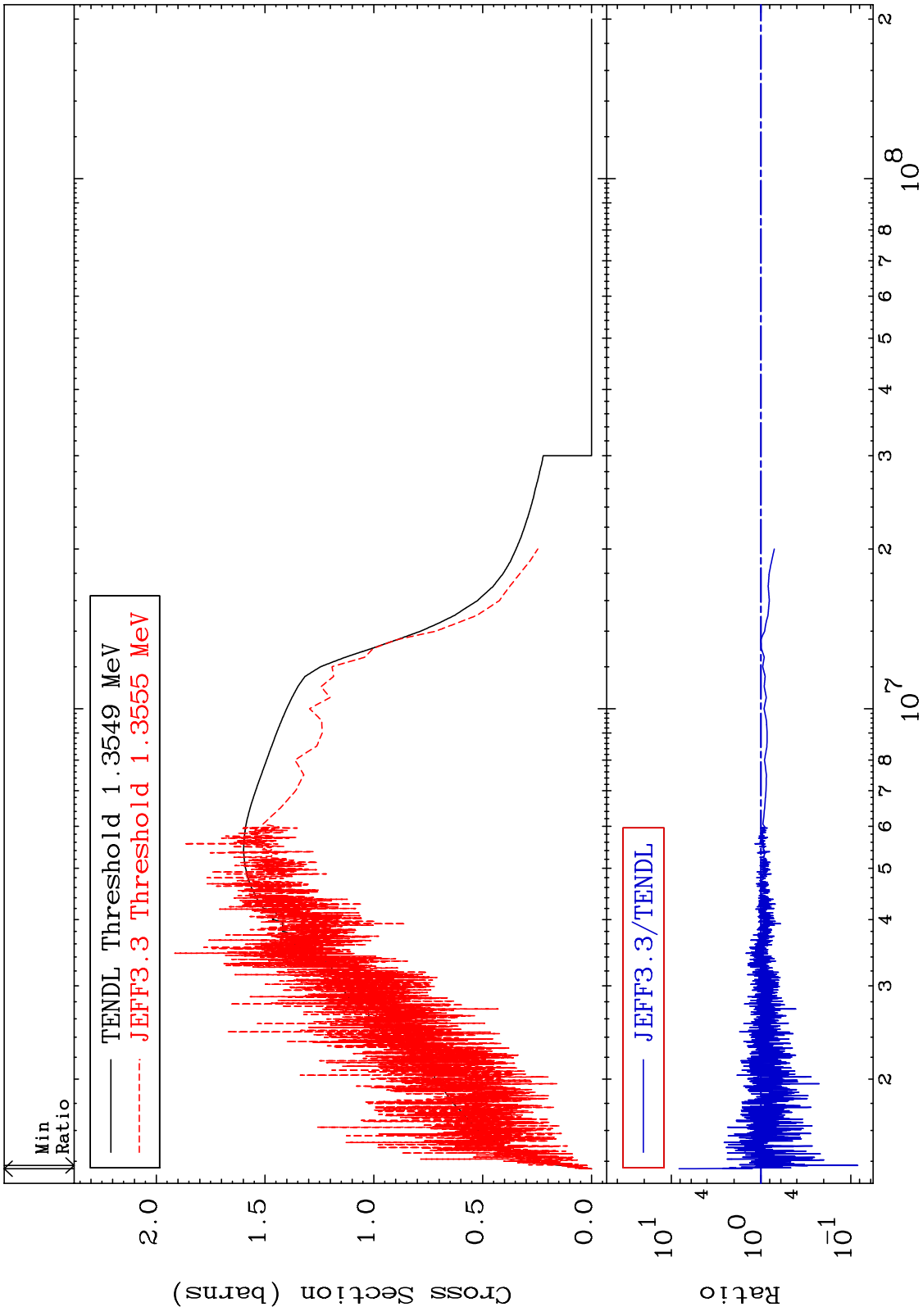
28-Ni-60
-99.75 To 5443. %



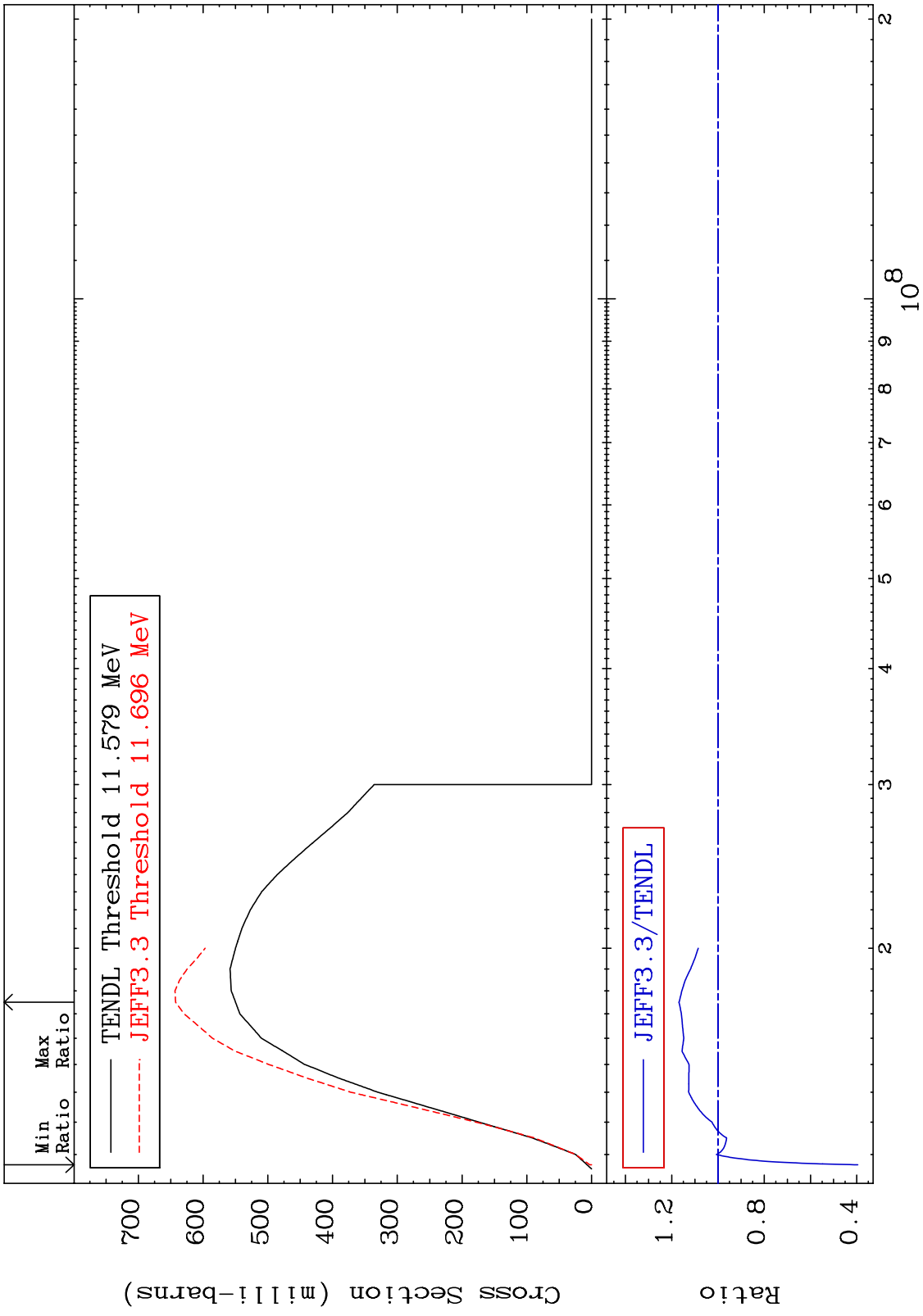
2

Incident Energy (eV)

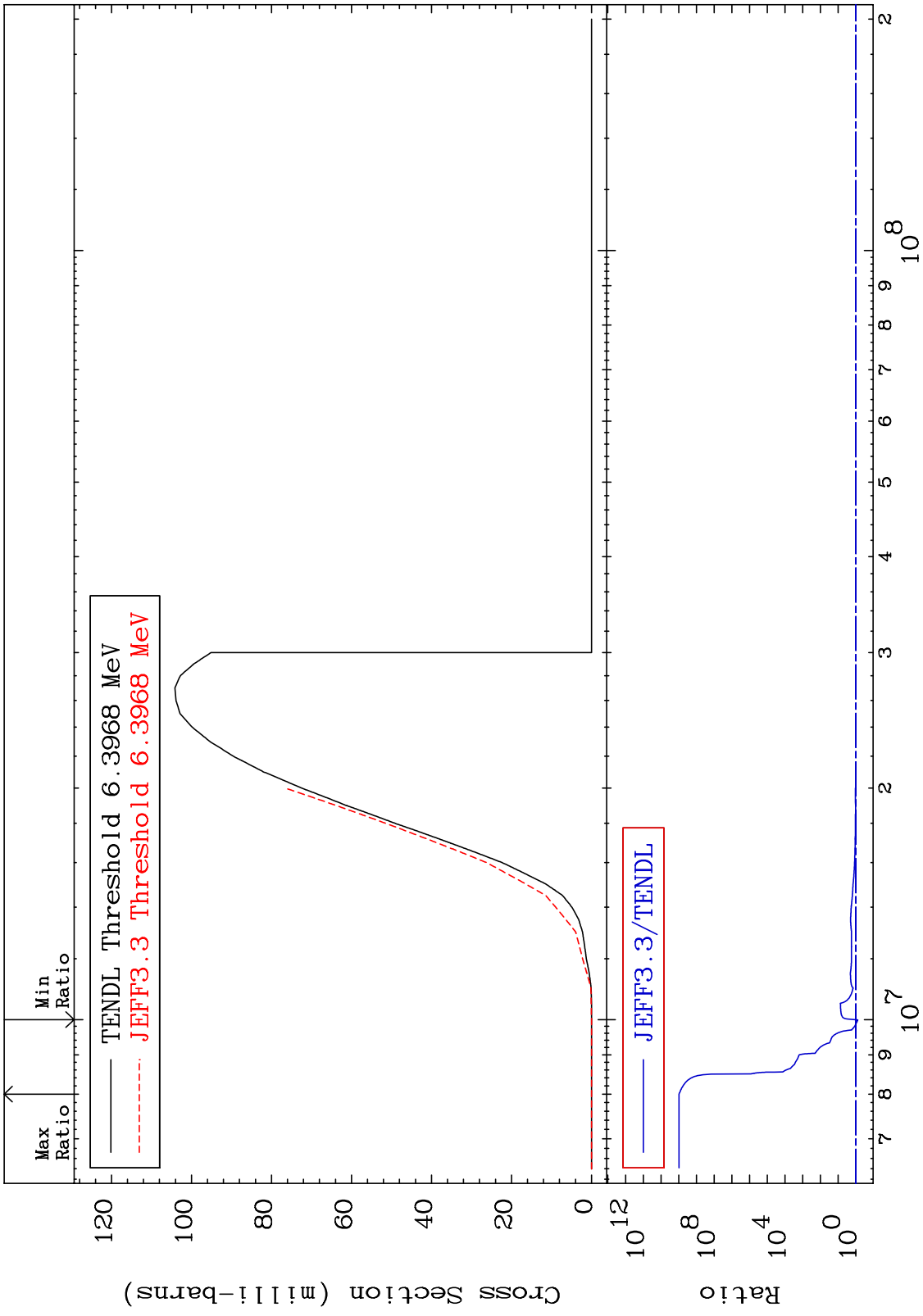
28-Ni-60



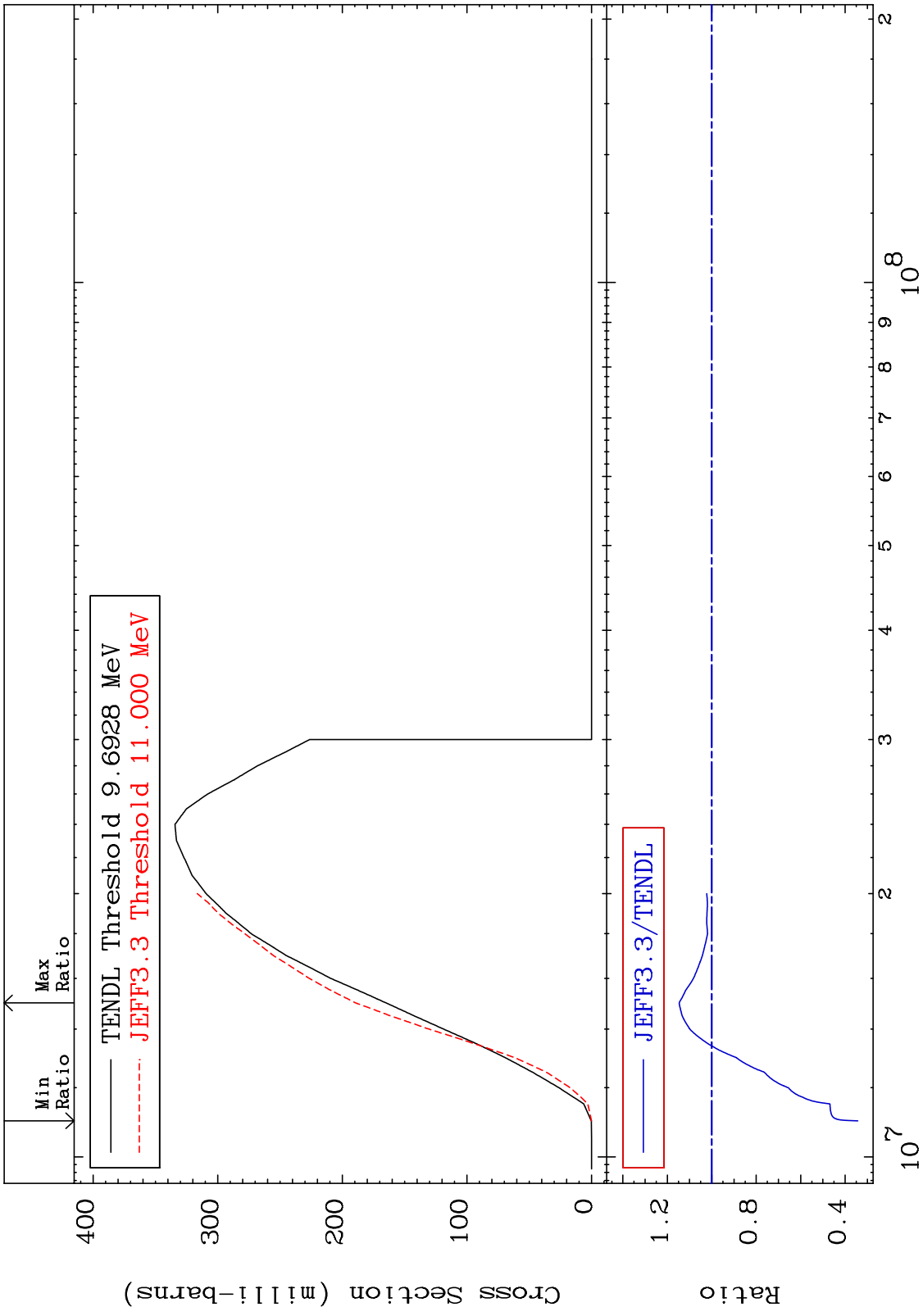
MAT 2831 $(n,2n)$ Cross Section $^{28}\text{Ni-60}$ -60.47 To 16.84 %



4 $^{28}\text{Ni-60}$

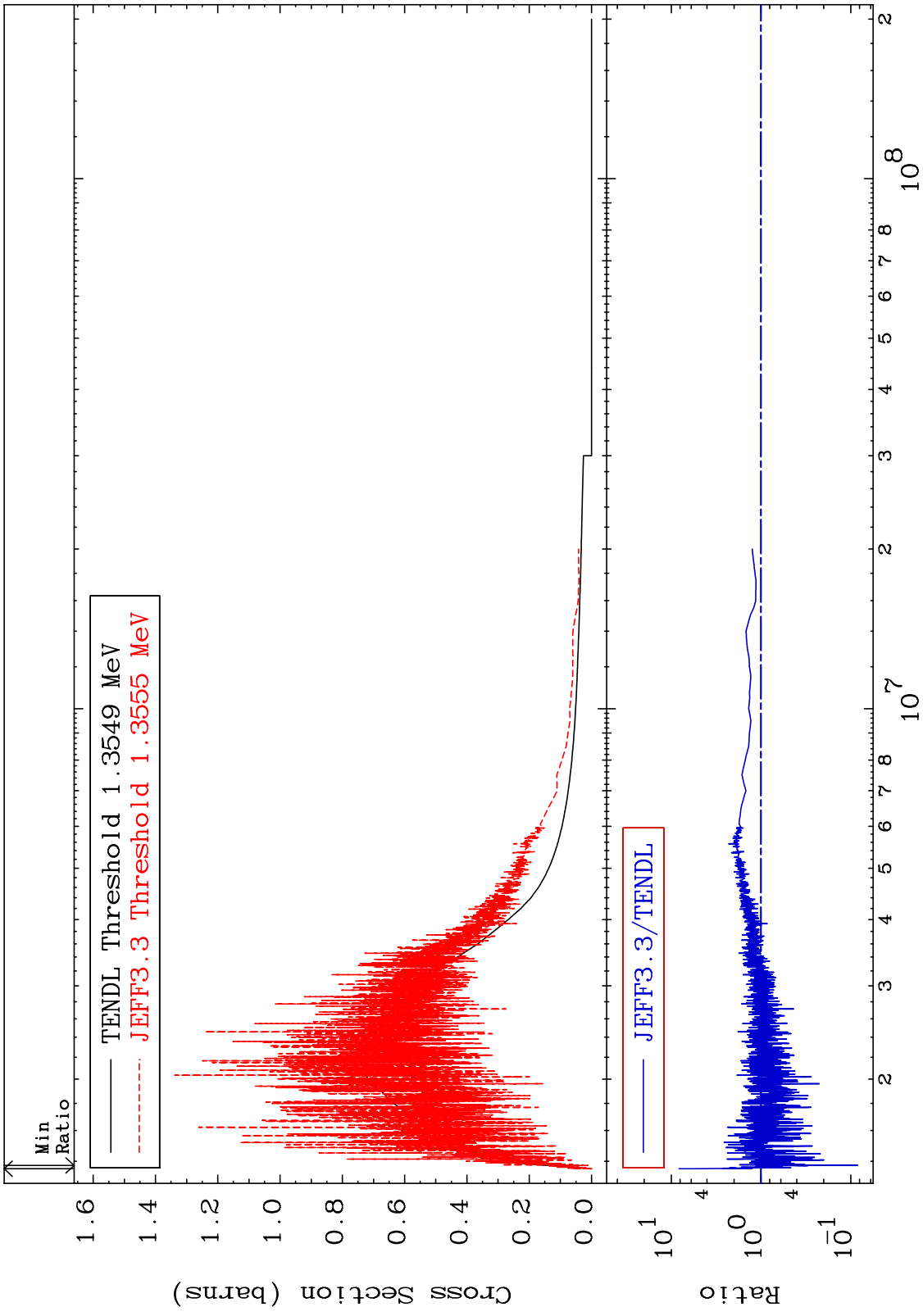


MAT 2831 (n,n') p 28-Ni-60
Cross Section -65.73 To 14.73 %



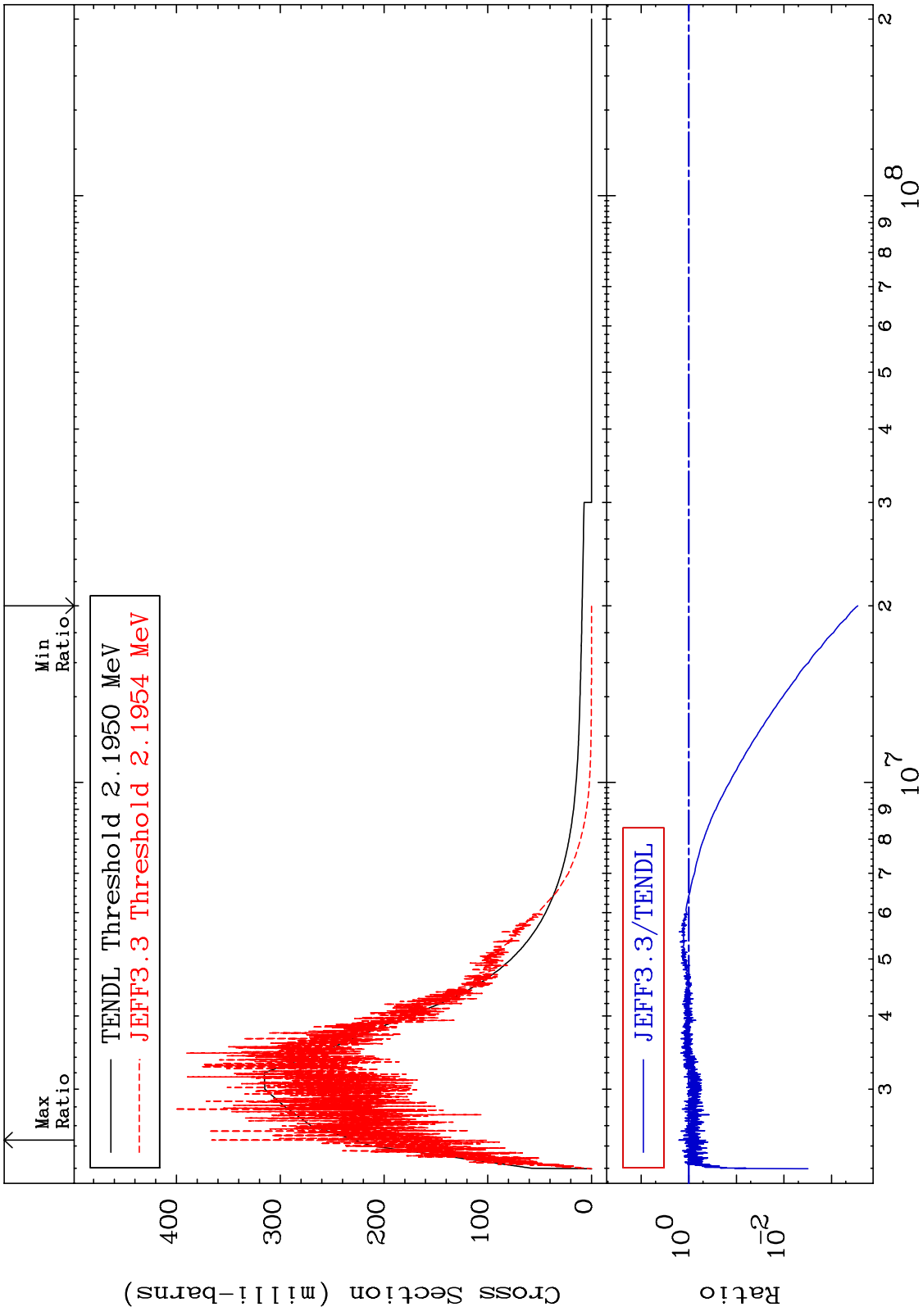
28-Ni-60

MAT 2831 MT= 51 (n,n') Level Cross Section 28-Ni-60 -91.67 To 719.1 %

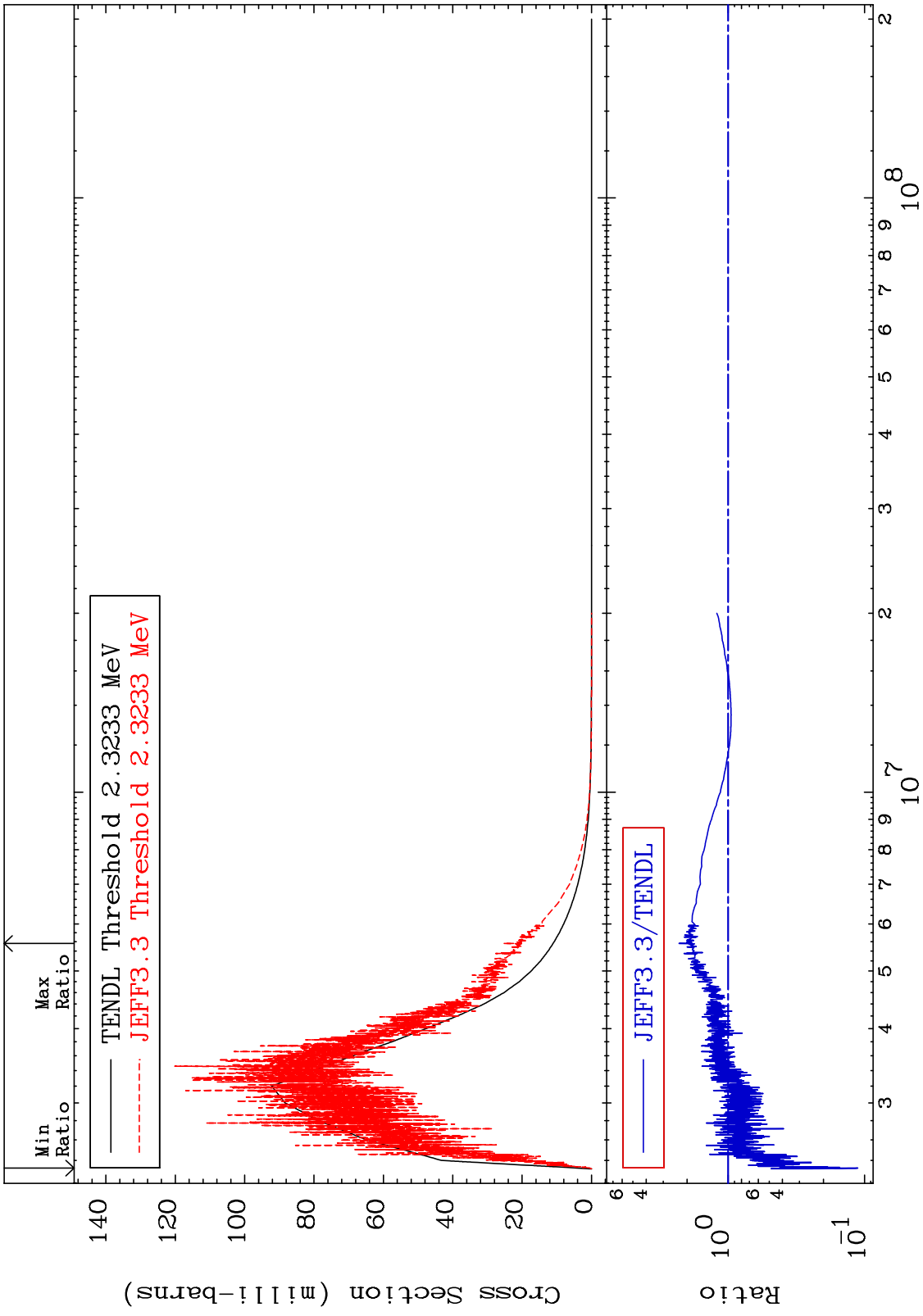


7 Incident Energy (eV) 28-Ni-60

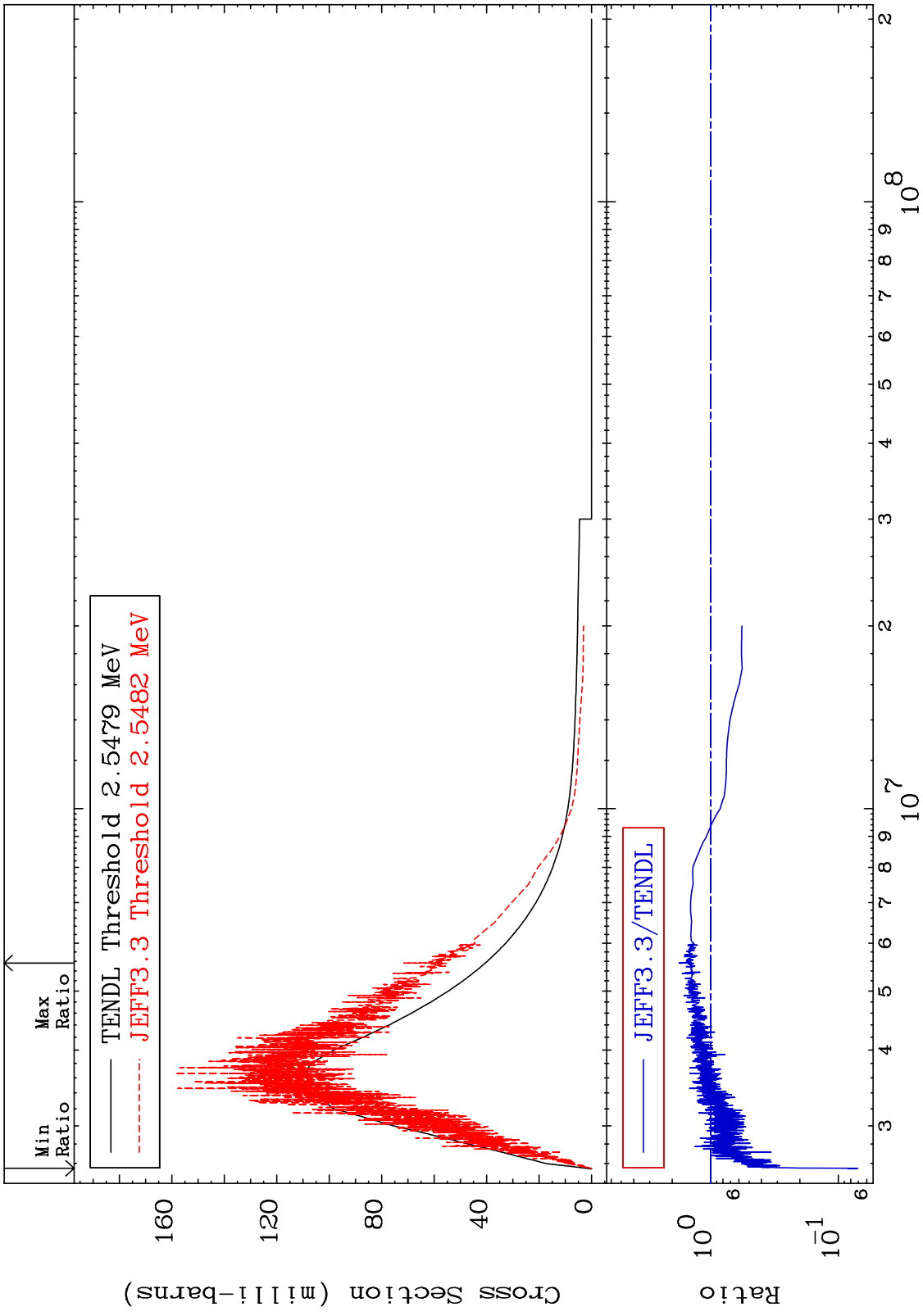
MAT 2831 MT= 52 (n,n') Level Cross Section 28-Ni-60 -99.97 To 60.28 %



MAT 2831 MT= 53 (n,n') Level Cross Section 28-Ni-60 -88.81 To 129.3 %

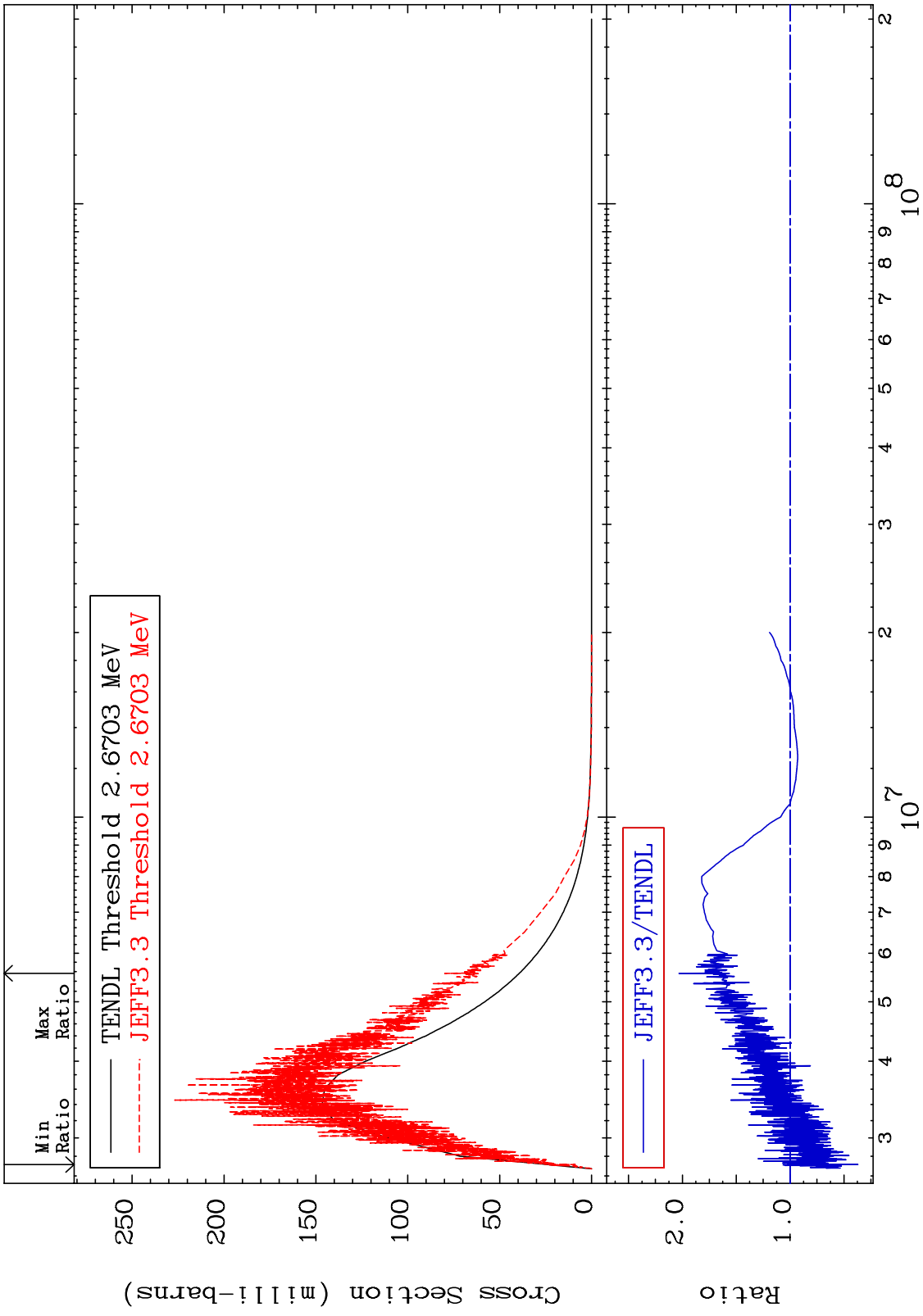


MAT 2831 MT= 54 (n,n') Level Cross Section 28-Ni-60 -92.95 To 76.64 %

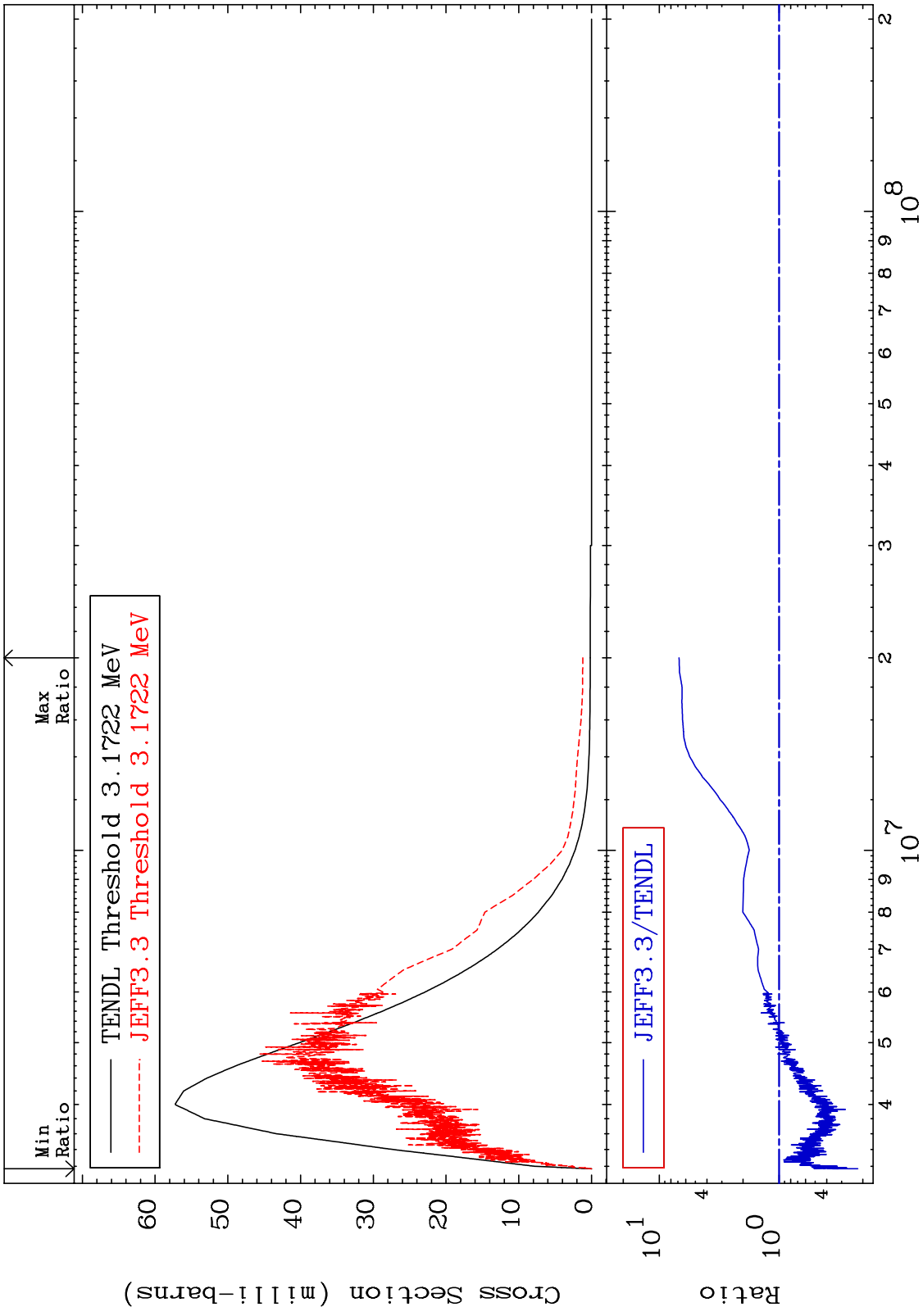


10 28-Ni-60

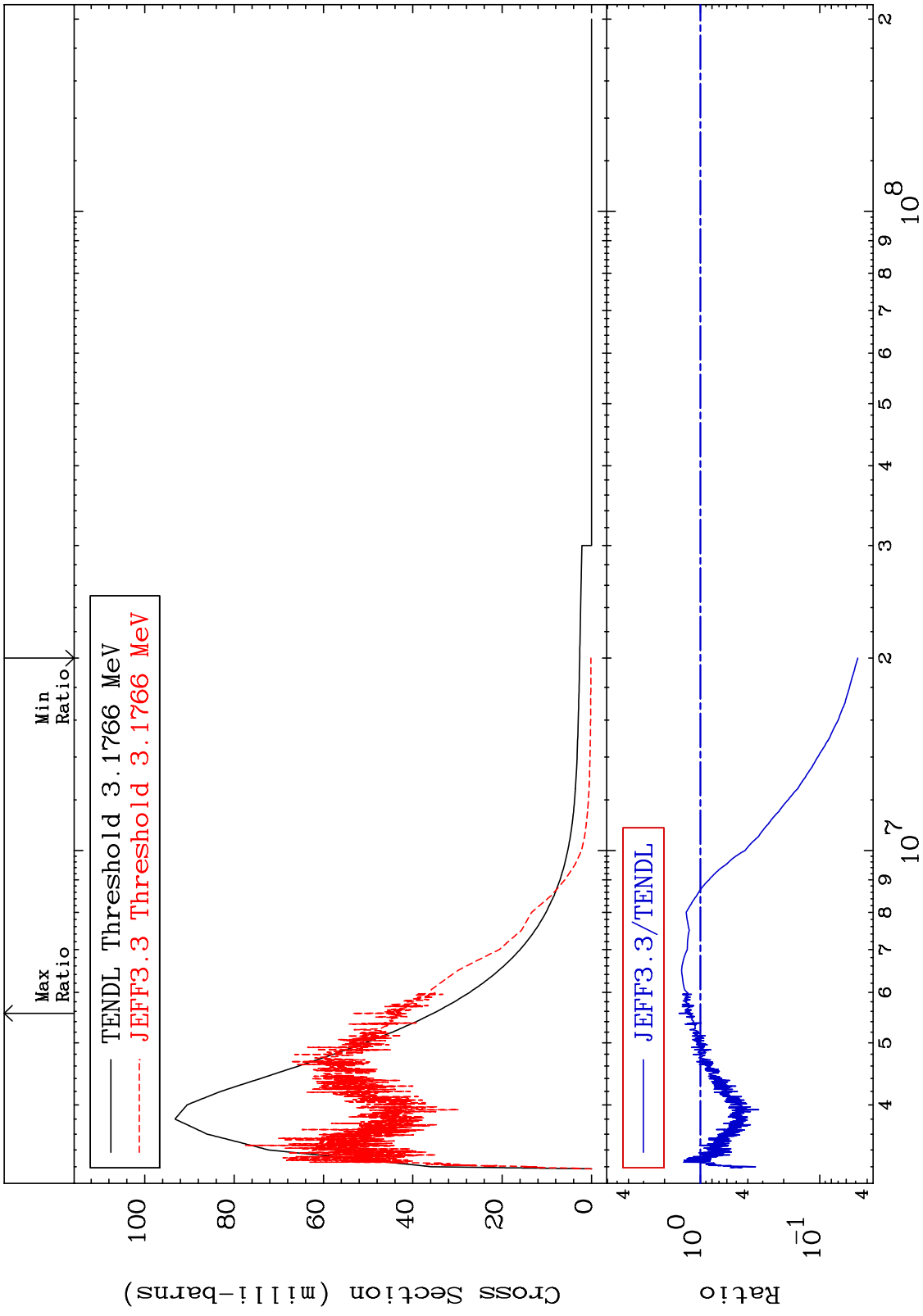
MAT 2831 MT= 55 (n,n') Level Cross Section -62.91 To 103.1 % 28-Ni-60



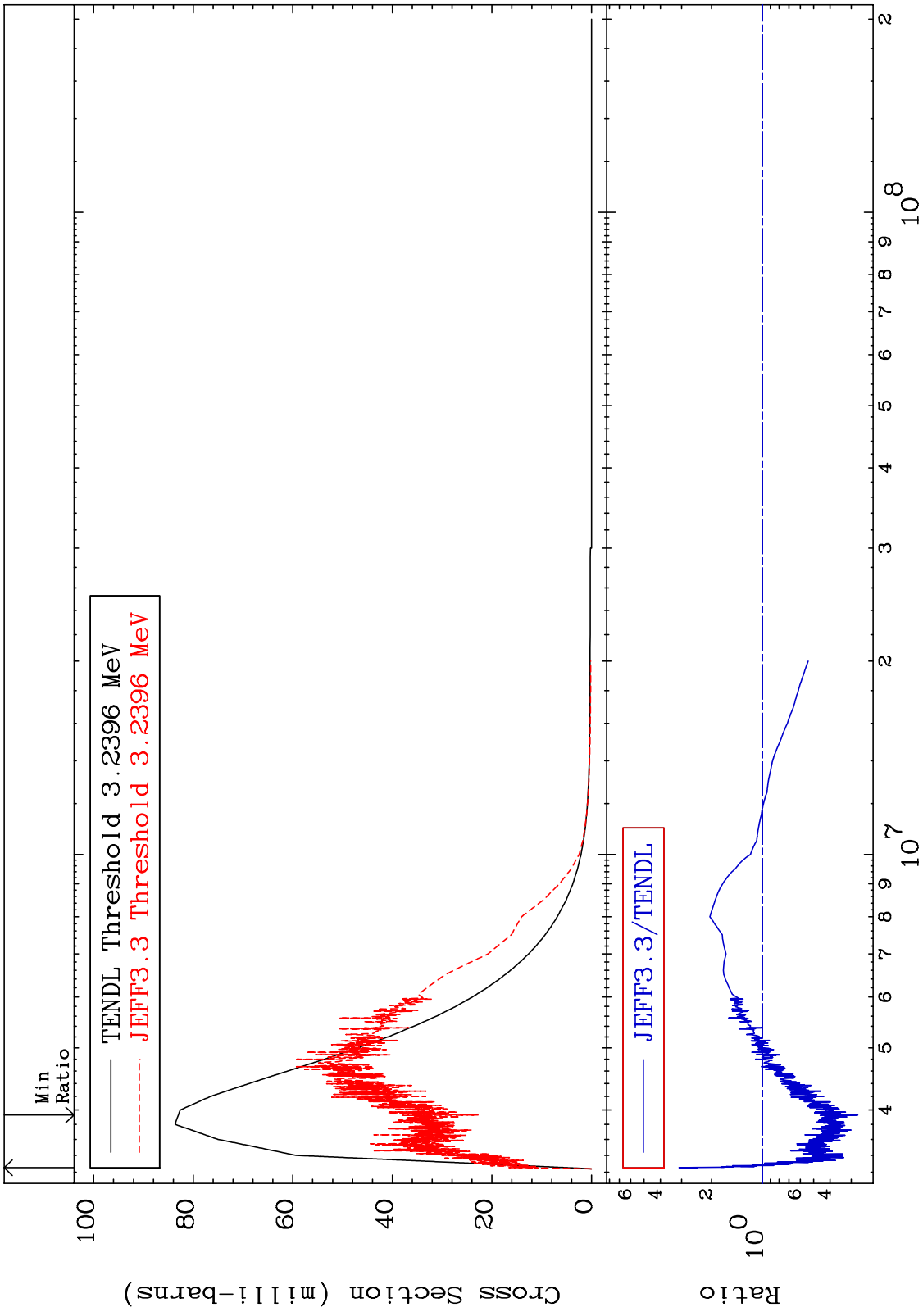
MAT 2831 MT= 56 (n,n') Level Cross Section 28-Ni-60
 -78.00 To 583.5 %



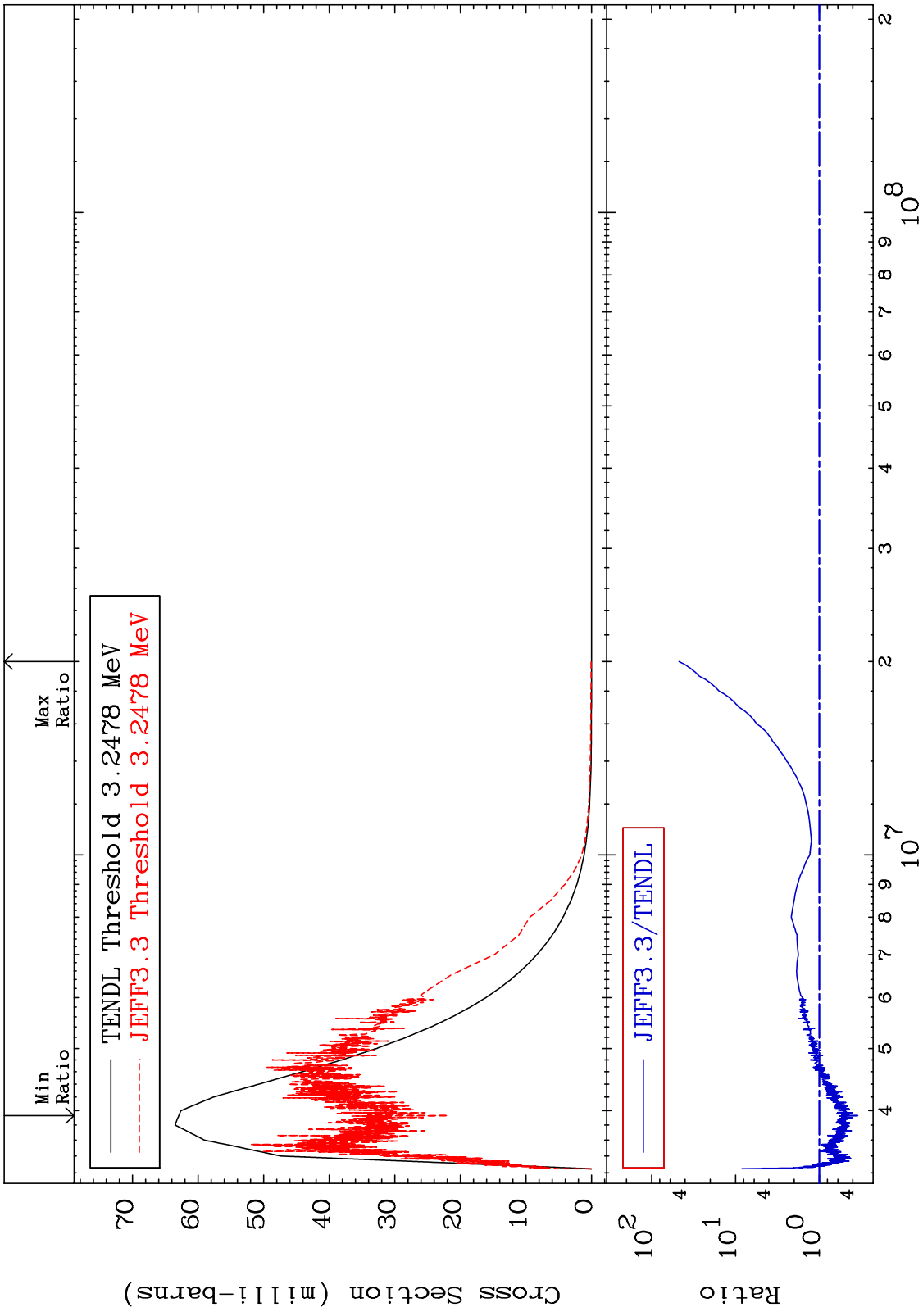
MAT 2831 MT= 57 (n,n') Level Cross Section -95.21 To 51.01 % 28-Ni-60



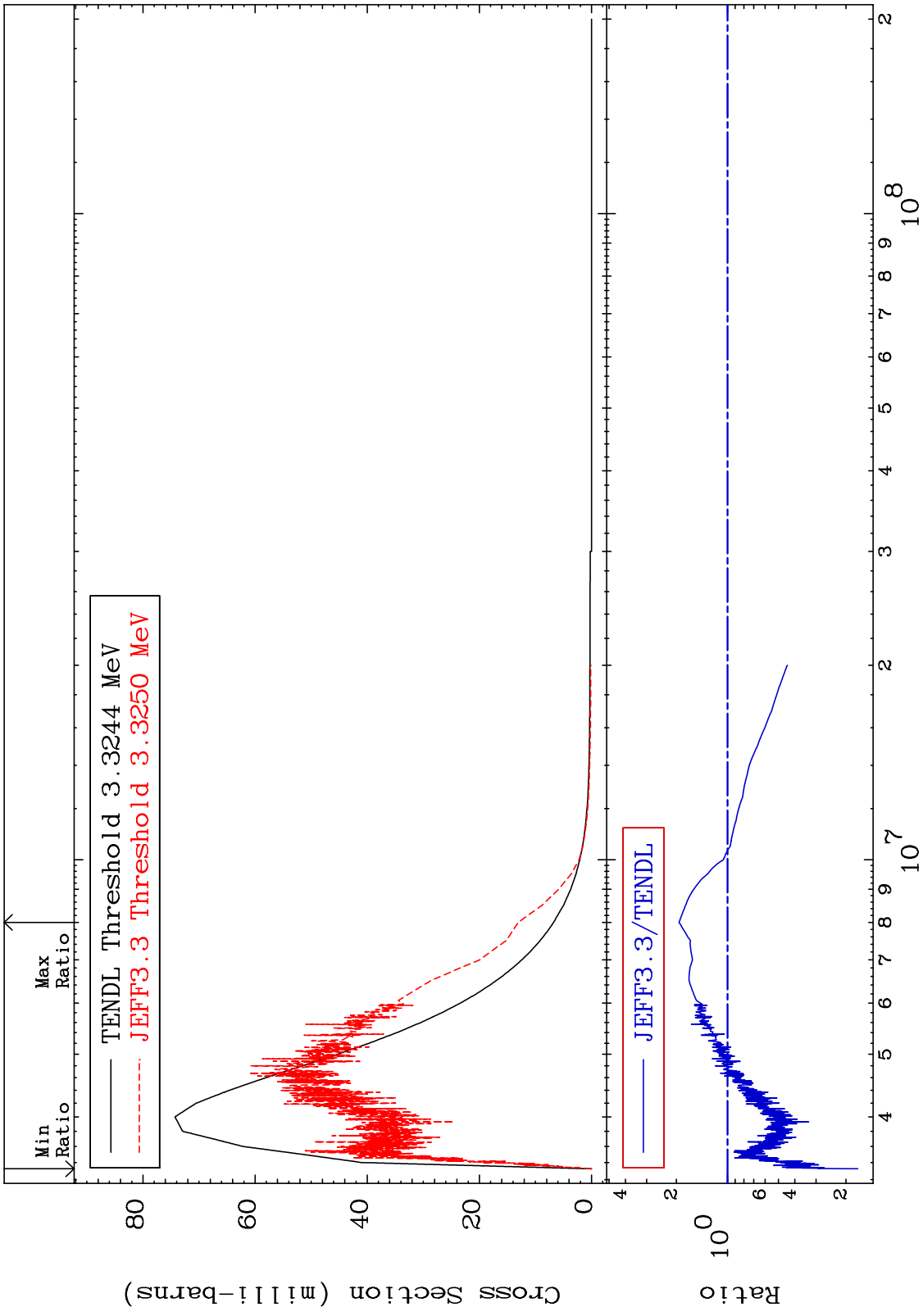
MAT 2831 MT= 58 (n,n') Level Cross Section -72.57 To 210.9 % 28-Ni-60



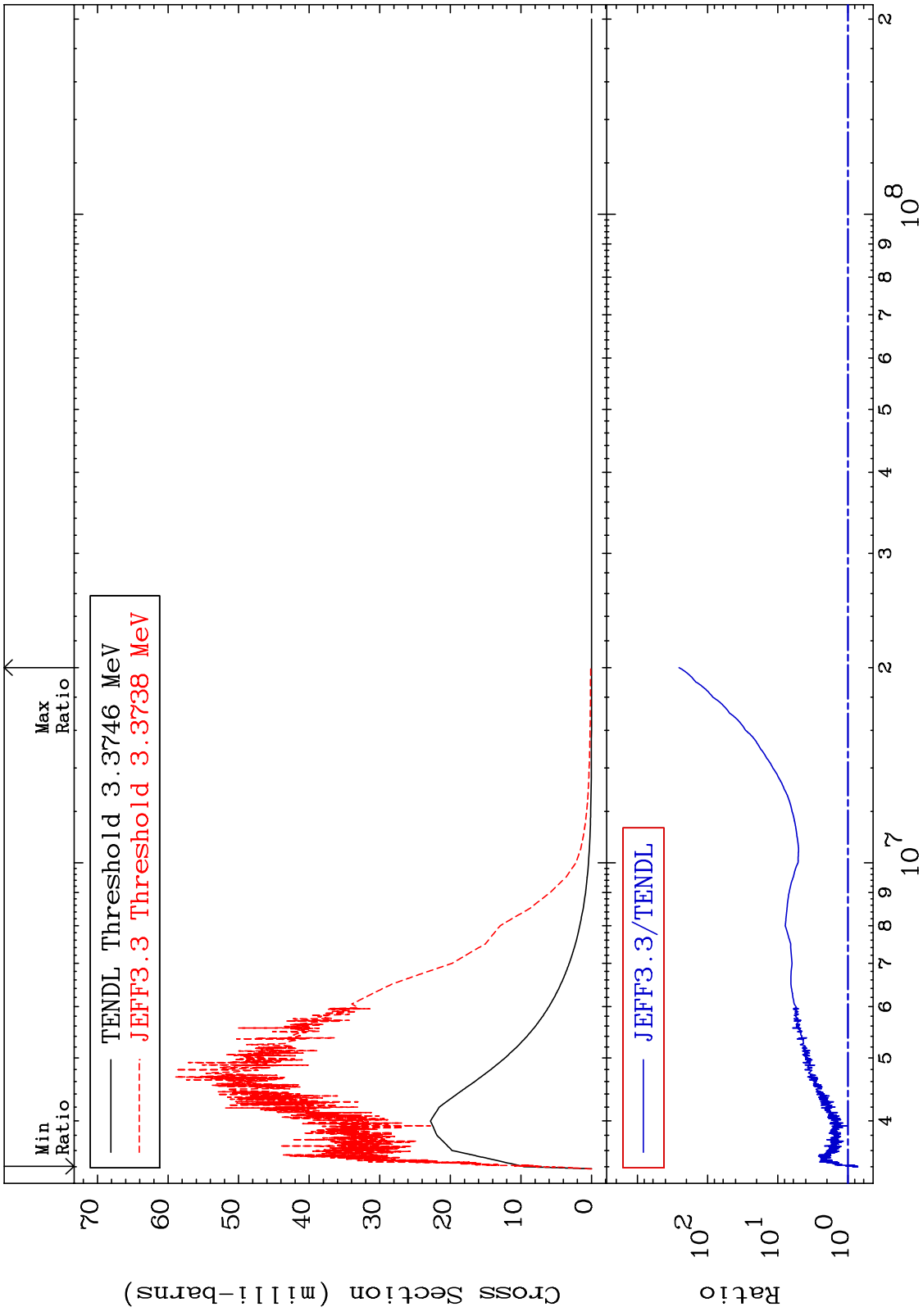
MAT 2831 MT= 59 (n,n') Level Cross Section 28-Ni-60
 -65.27 To 4614. %



MAT 2831 MT= 60 (n,n') Level Cross Section 28-Ni-60 -82.99 To 93.01 %



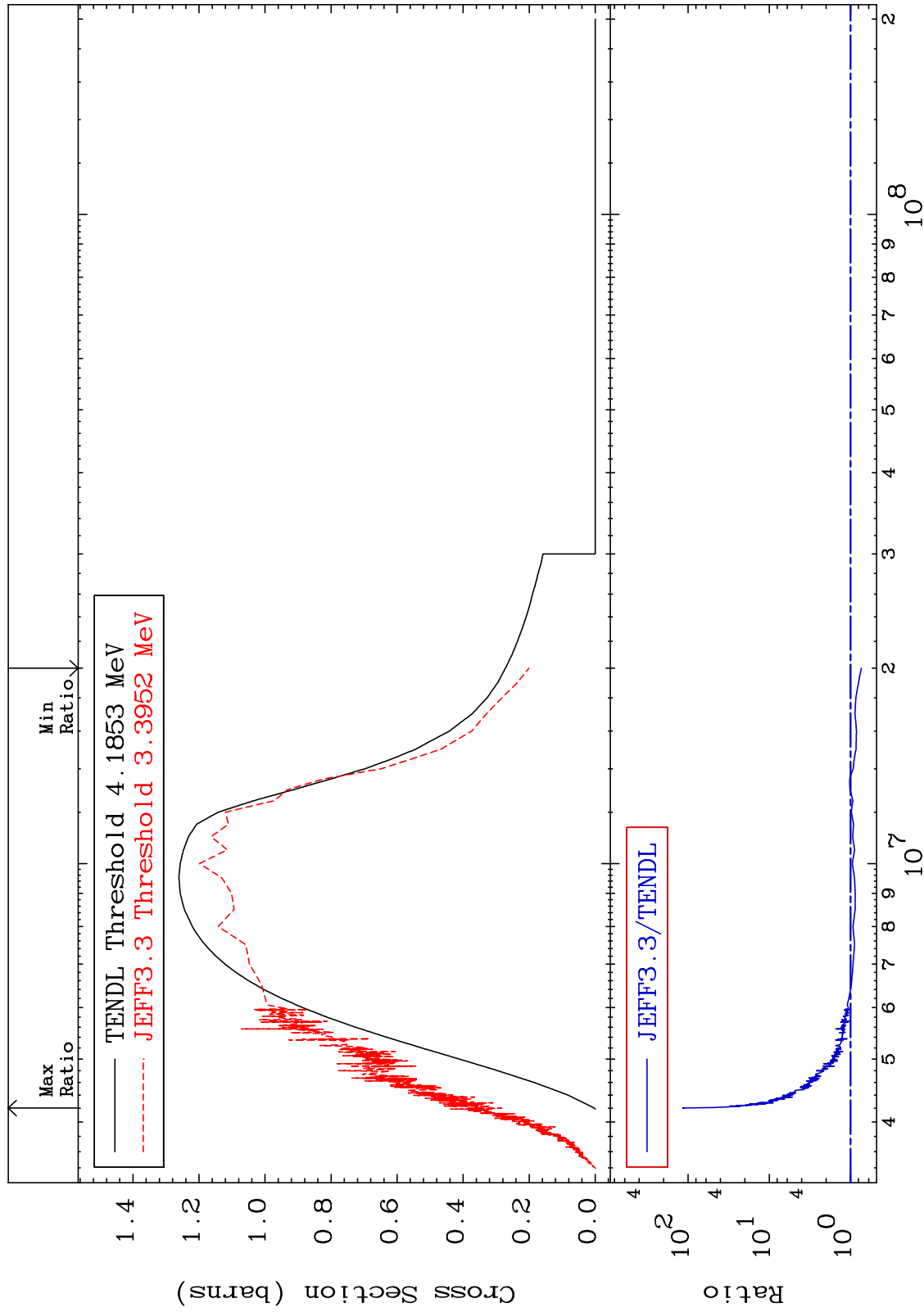
MAT 2831 MT= 61 (n,n') Level Cross Section 28-Ni-60
 -27.52 To 9999. %



MAT 2831

(n,n') Continuum
Cross Section

28-Ni-60
-26.20 To 9999. %



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28-Ni-60

28-Ni-60

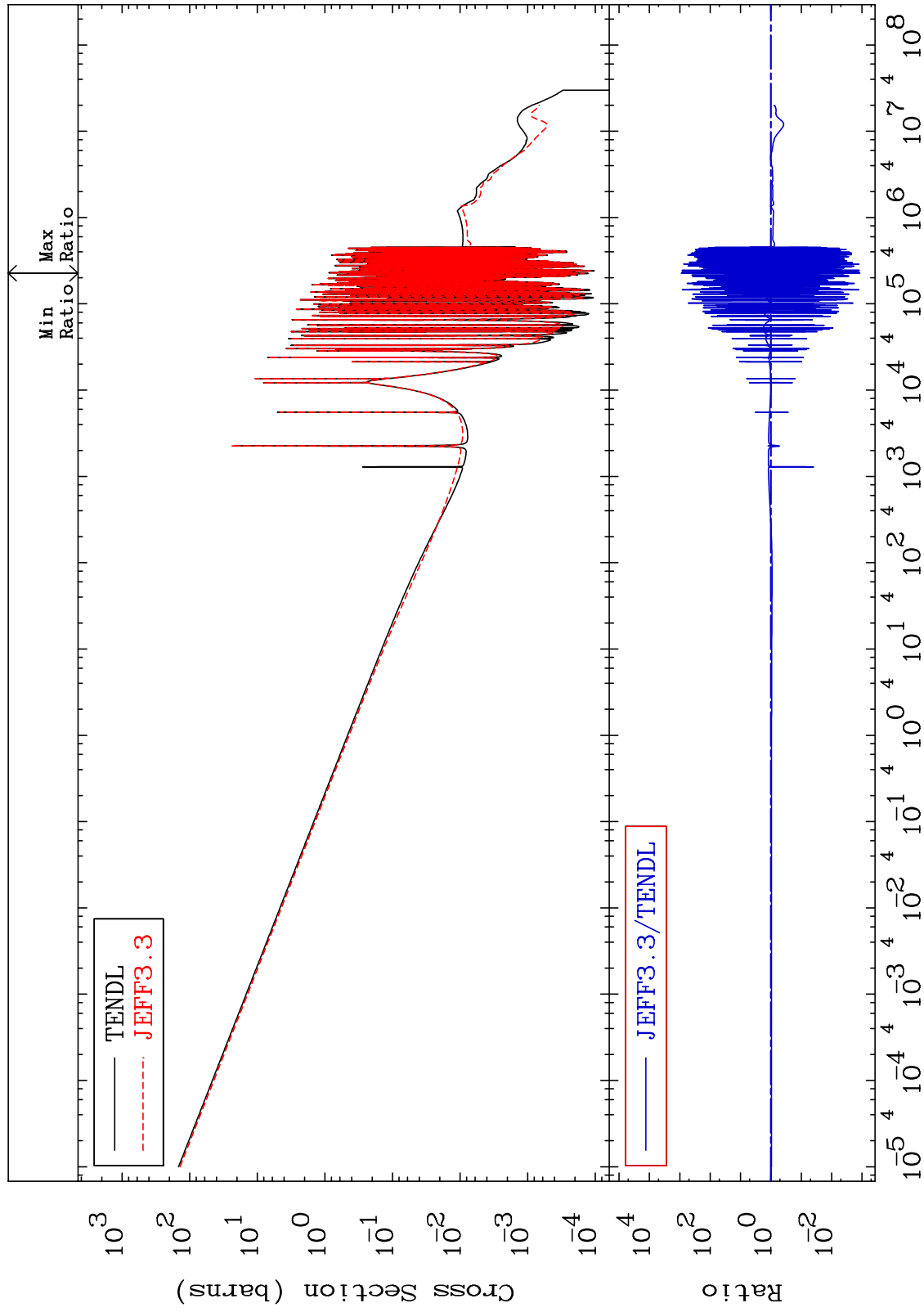
MAT 2831

(n, γ)

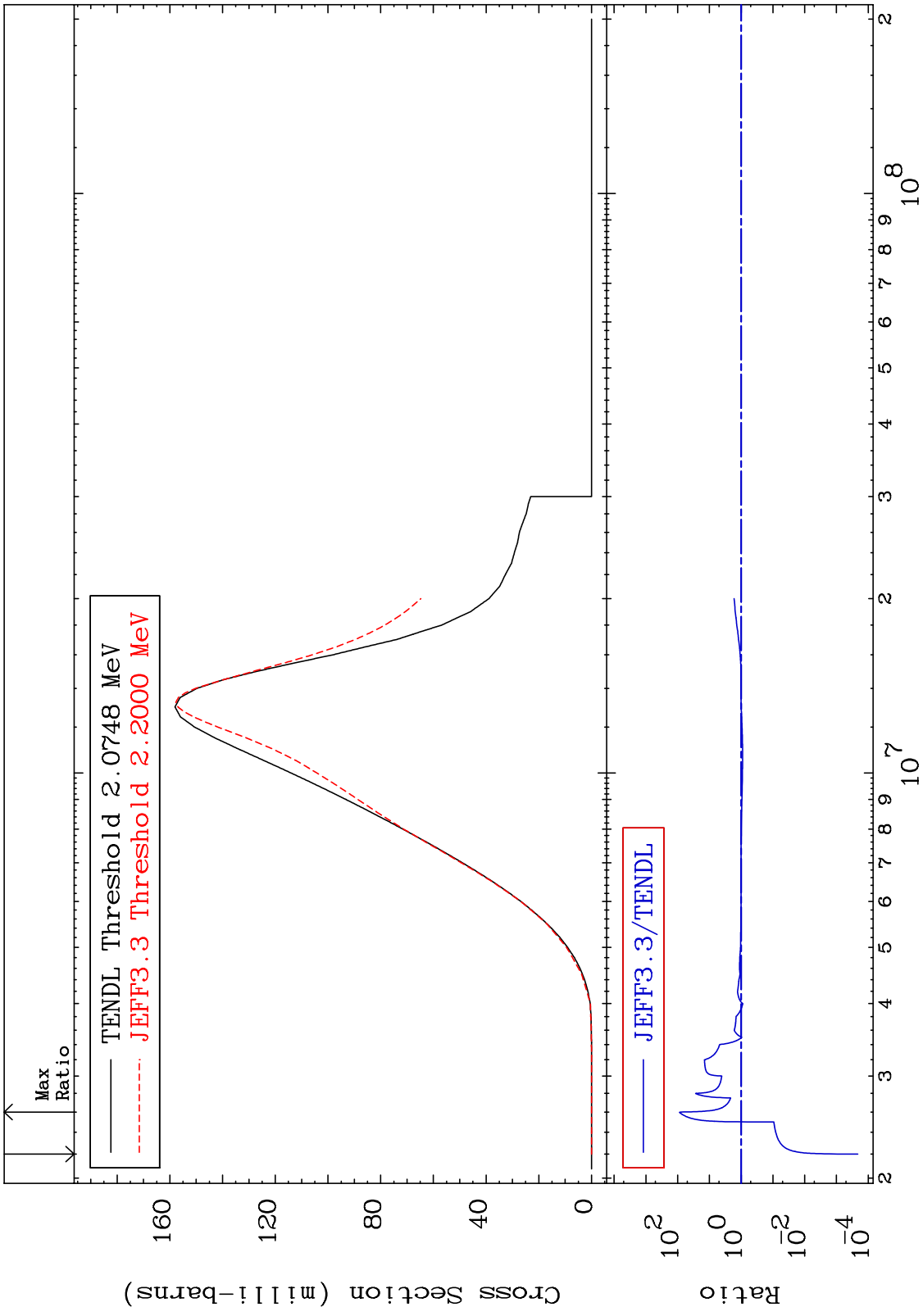
28-Ni-60

Cross Section

-99.88 To 9999. %

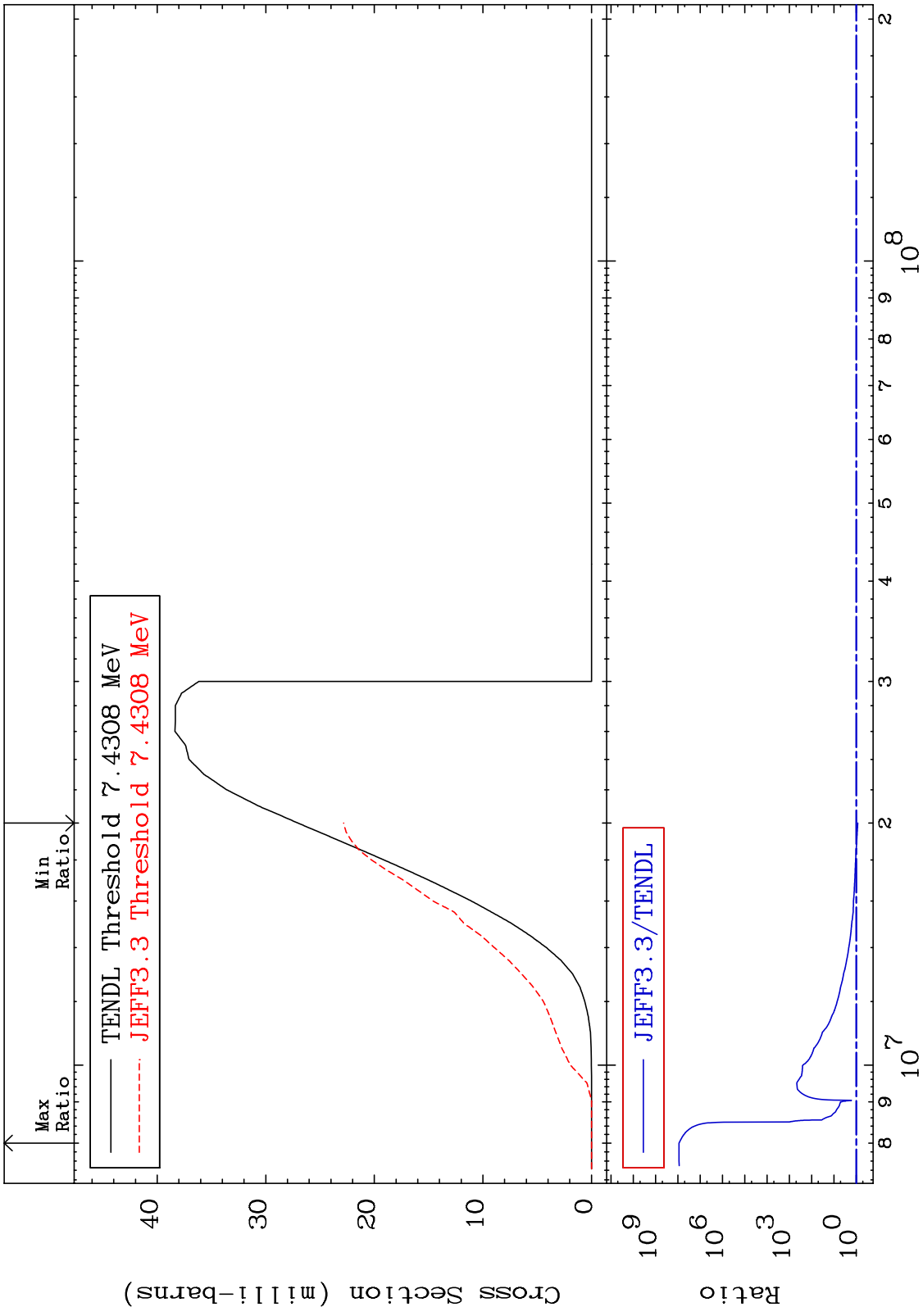


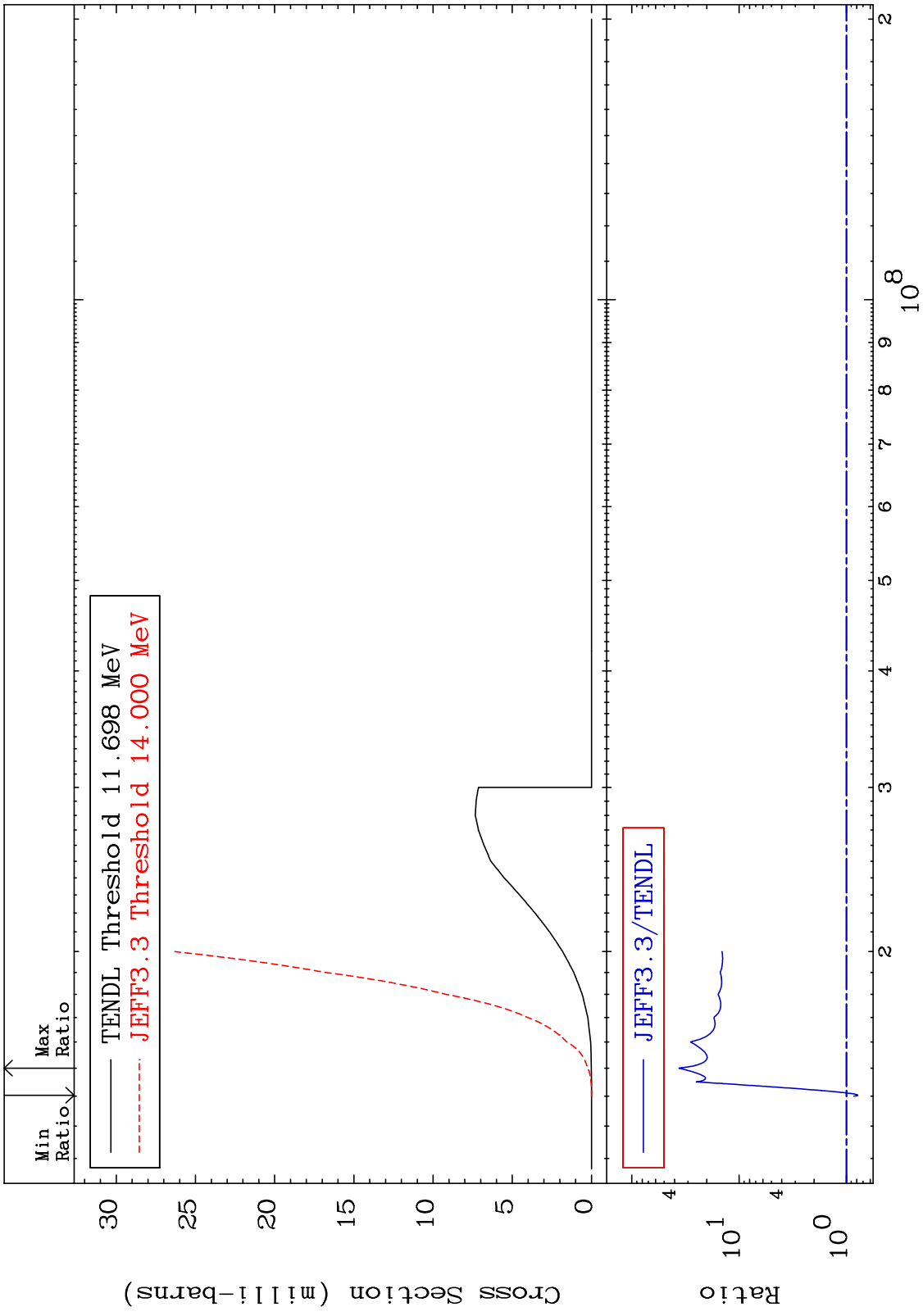
MAT 2831 (n,p) 28-Ni-60
 Cross Section -99.98 To 8941. %

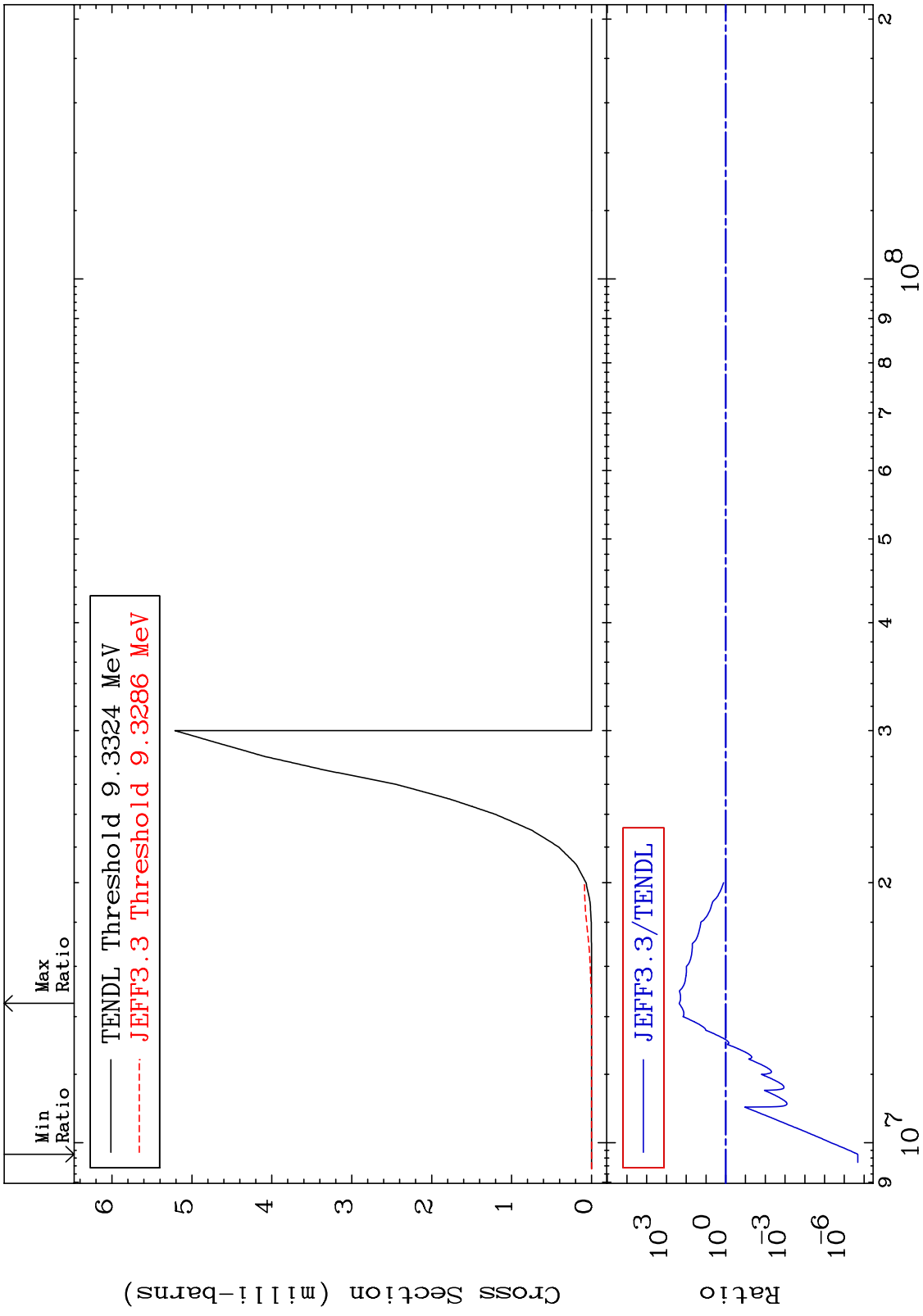


20 28-Ni-60

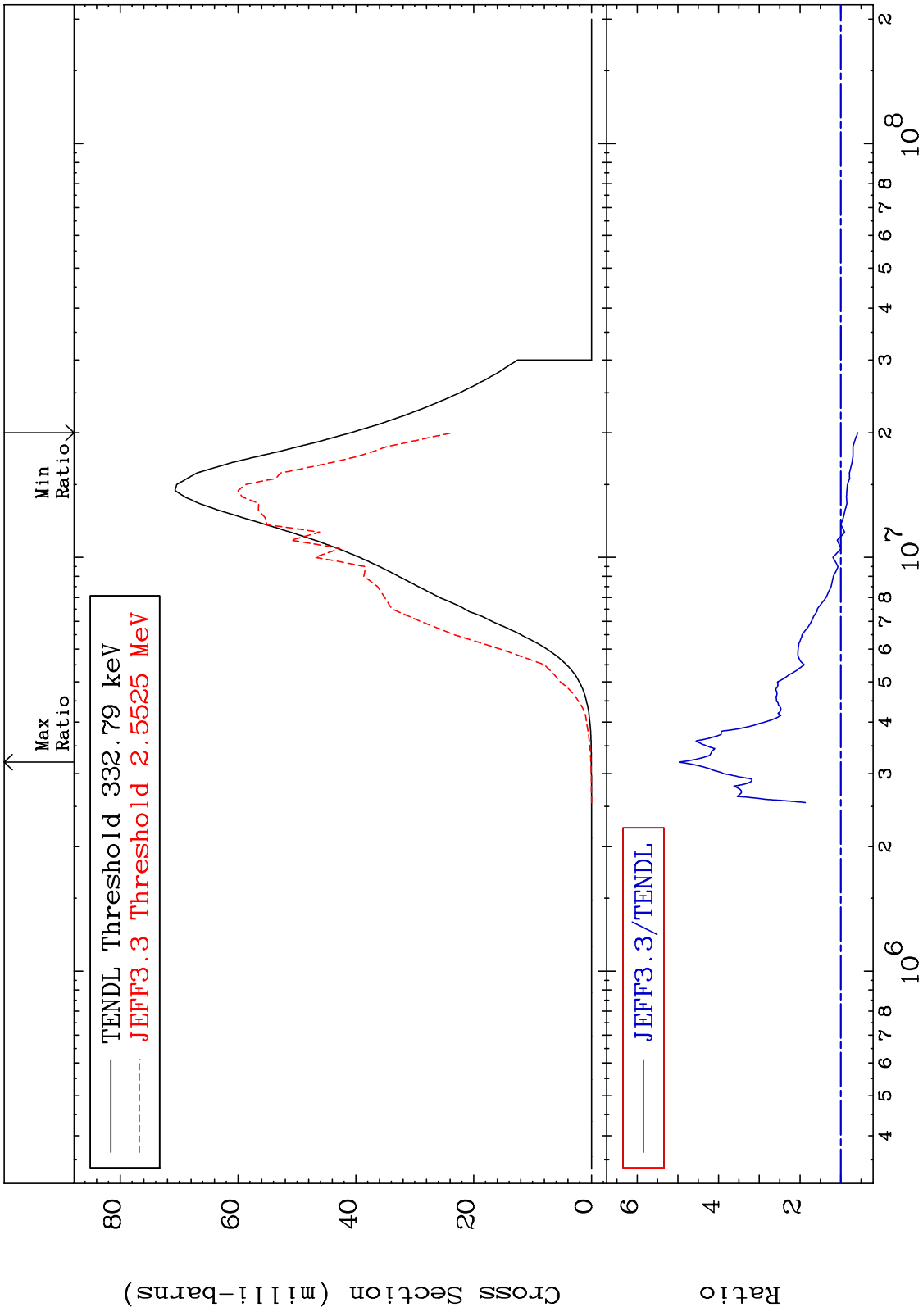
MAT 2831 (n,d) 28-Ni-60
 Cross Section -15.60 To 9999. %







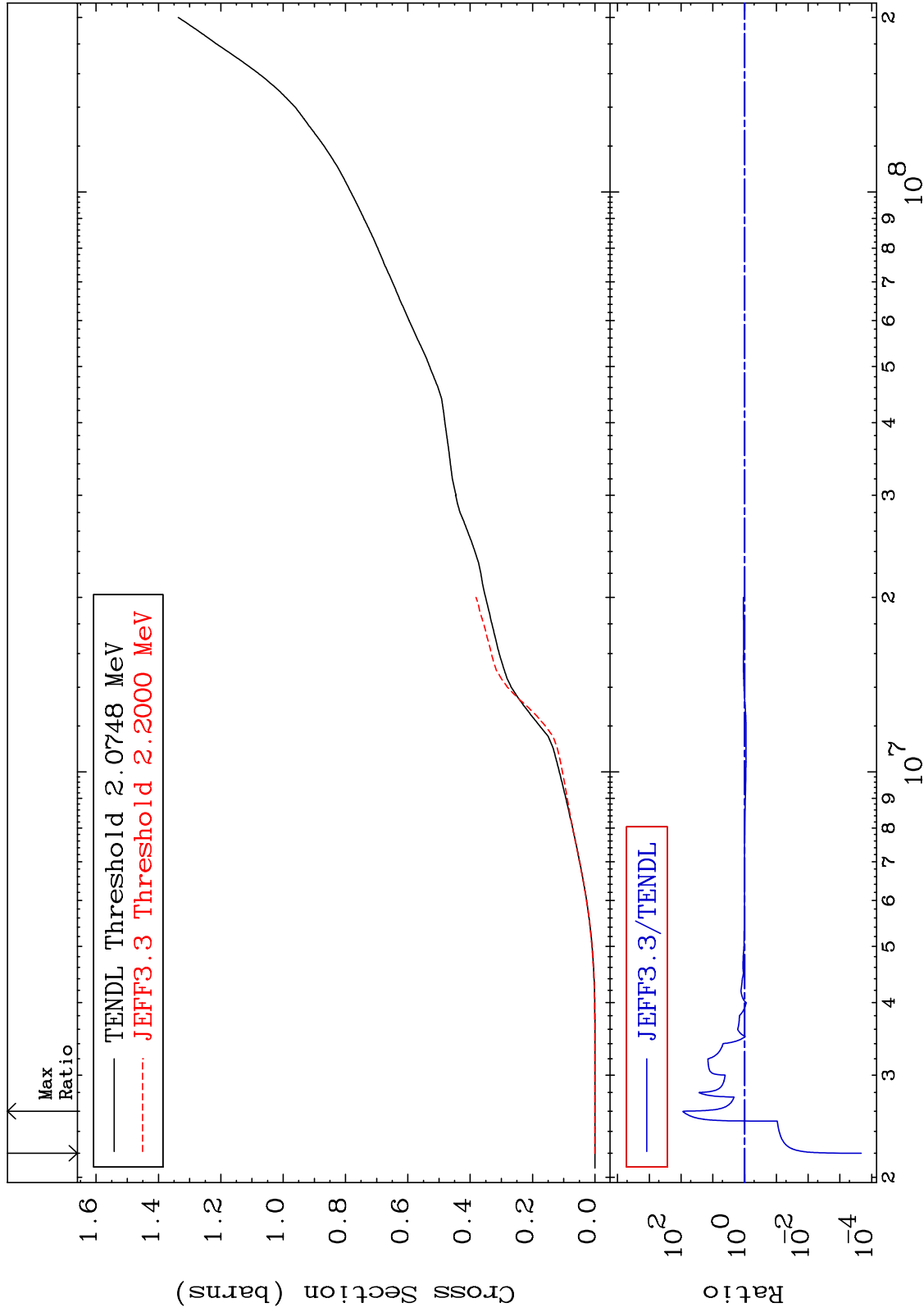
MAT 2831 (n, α) Cross Section 28-Ni-60
 -42.07 To 397.2 %



MAT 2831

Hydrogen Production
Cross Section

28-Ni-60
-99.98 To 8941. %



25

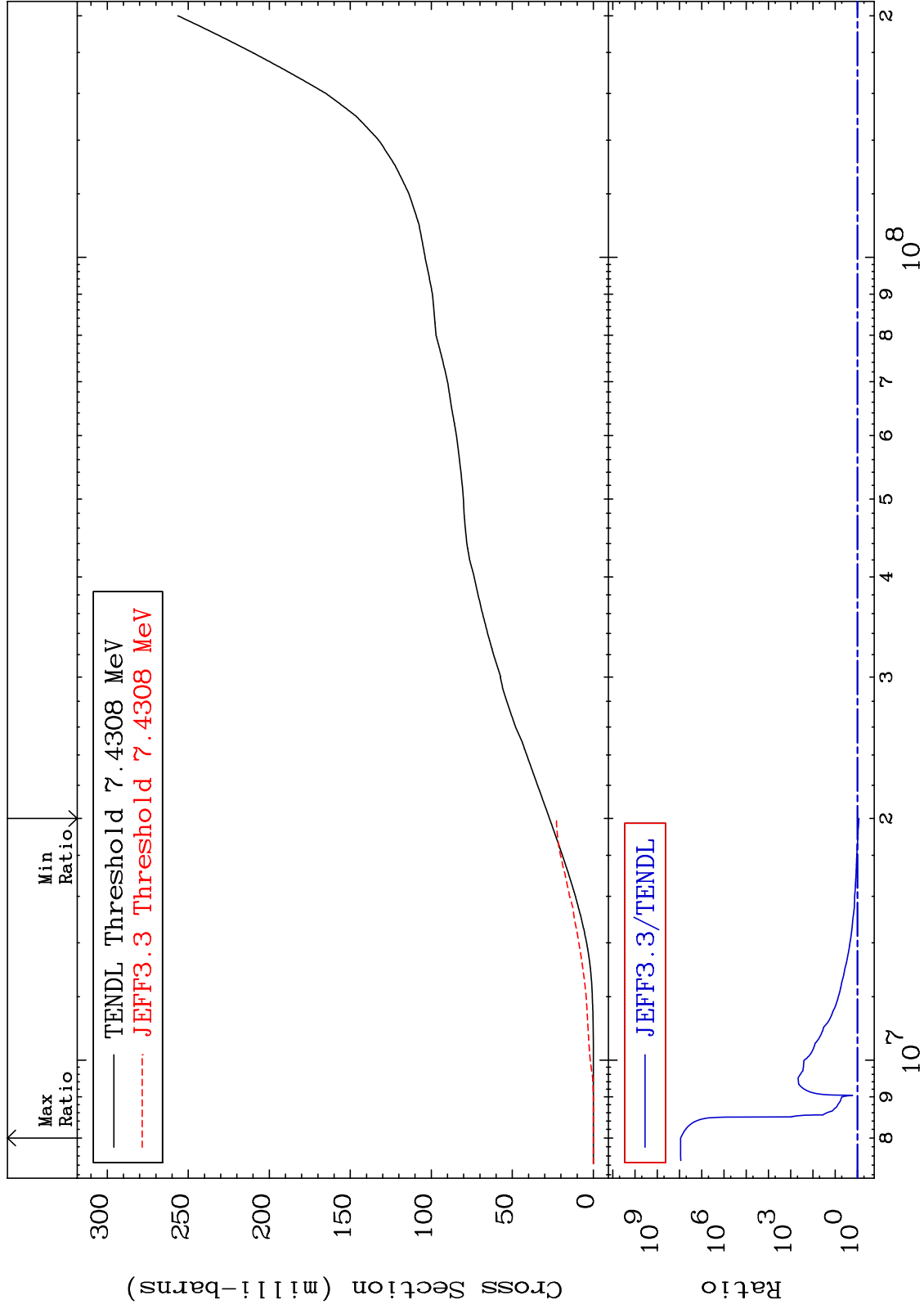
Incident Energy (eV)

28-Ni-60

MAT 2831

Deuterium Production Cross Section

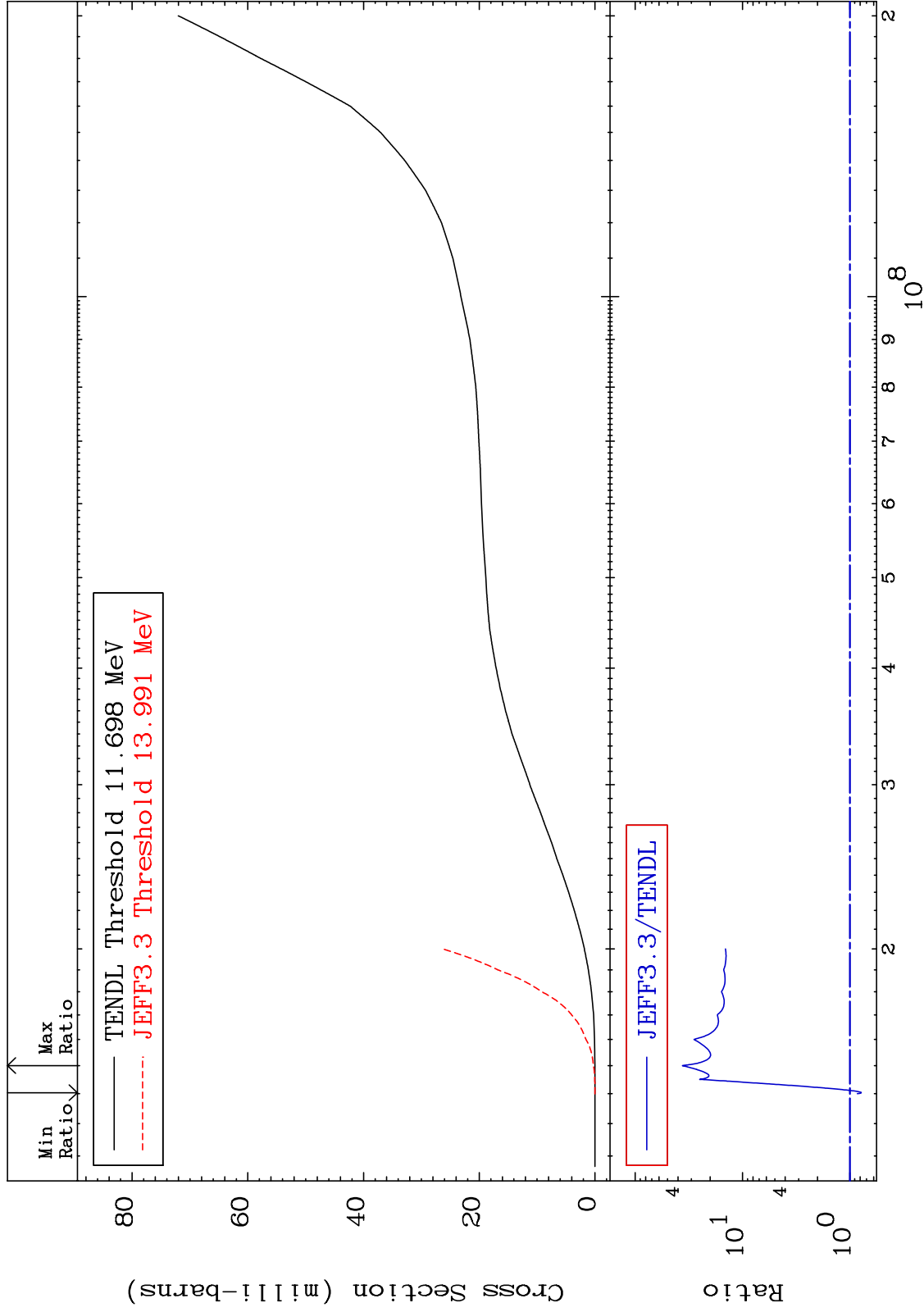
28-Ni-60
-15.66 To 9999. %



MAT 2831

Tritium Production
Cross Section

28-Ni-60
-21.81 To 3532. %



27

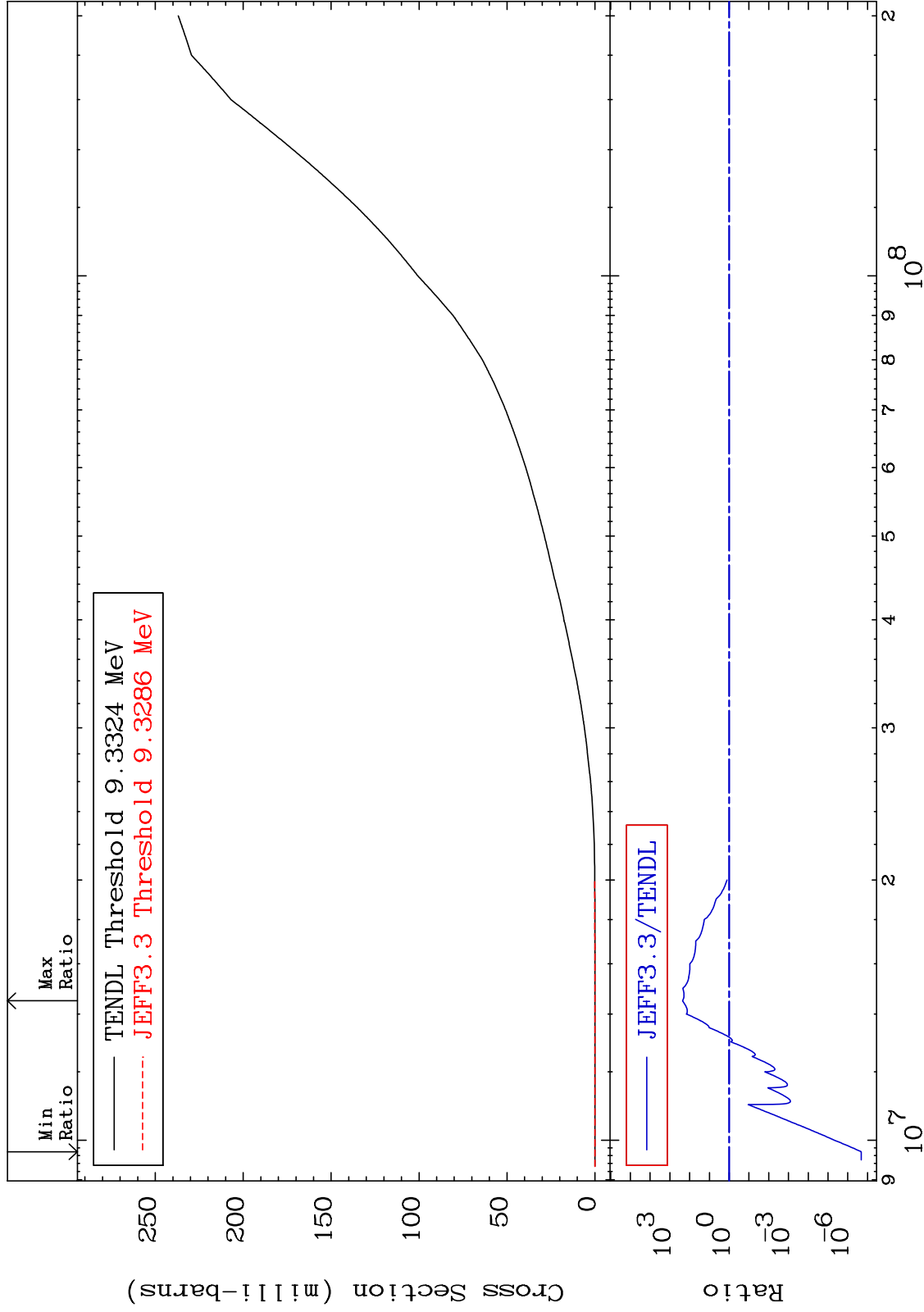
Incident Energy (eV)

28-Ni-60

MAT 2831

He-3 Production
Cross Section

28-Ni-60
-100.0 To 9999. %



28

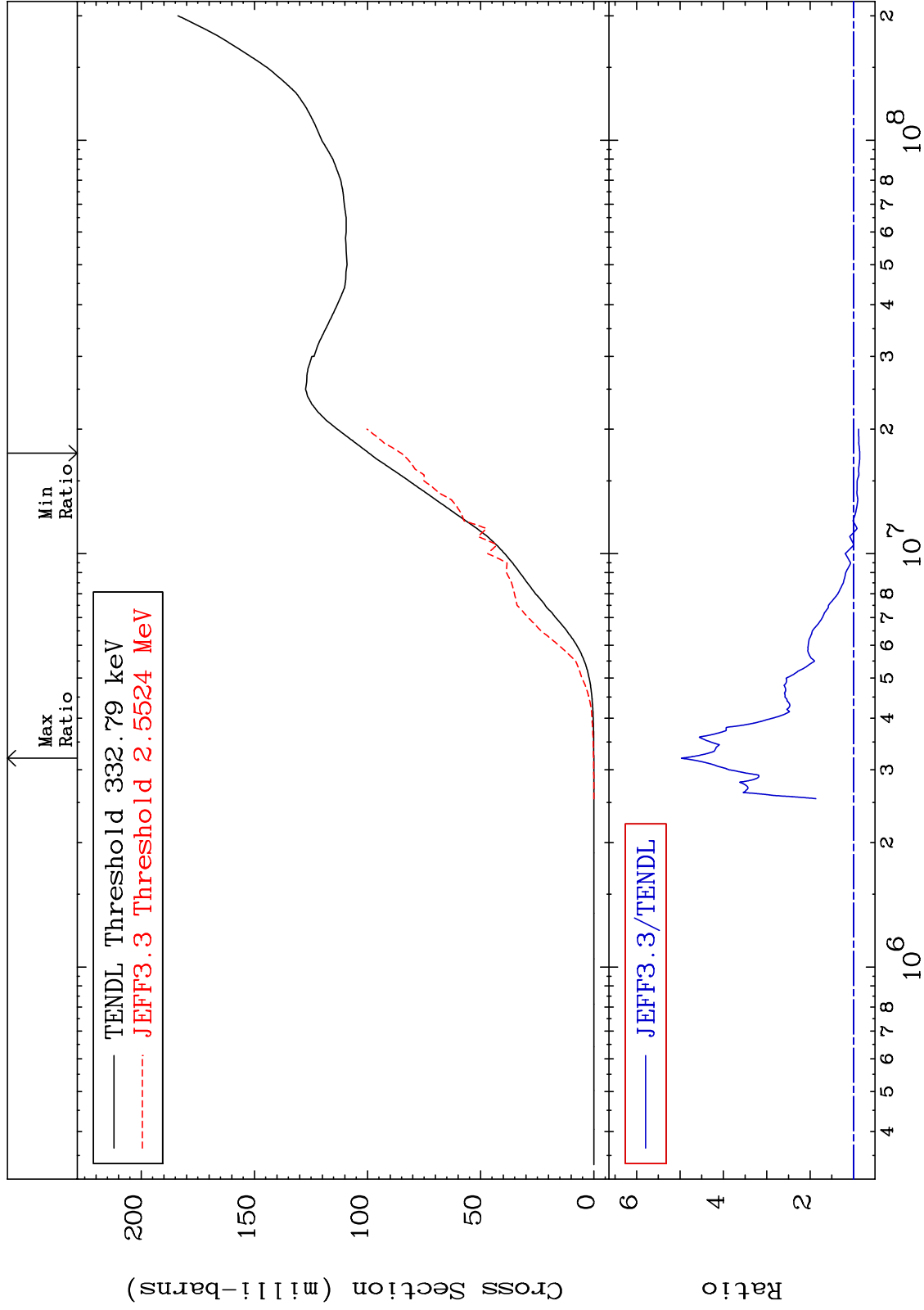
Incident Energy (eV)

28-Ni-60

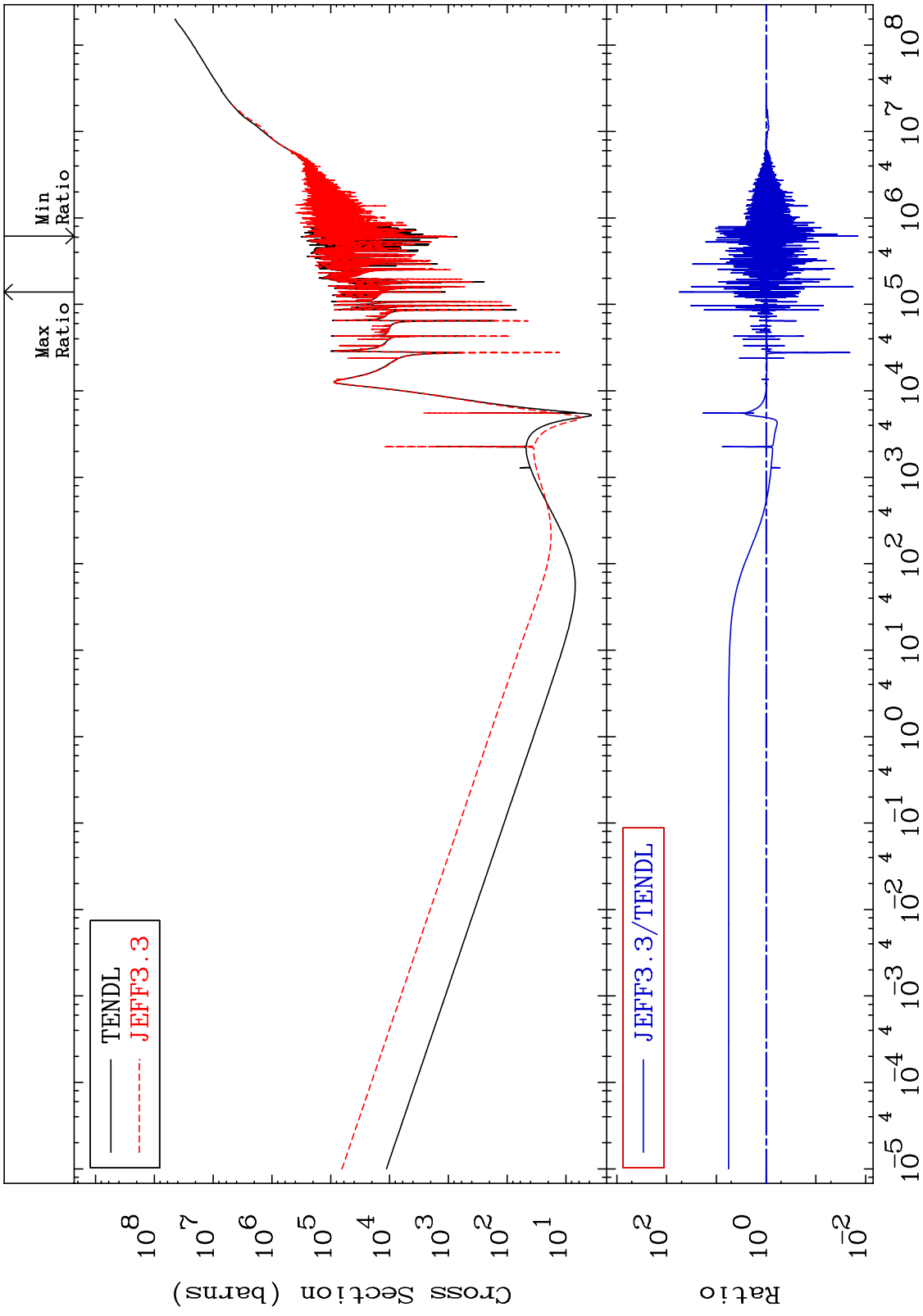
MAT 2831

He-4 Production
Cross Section

28-Ni-60
-14.31 To 397.2 %



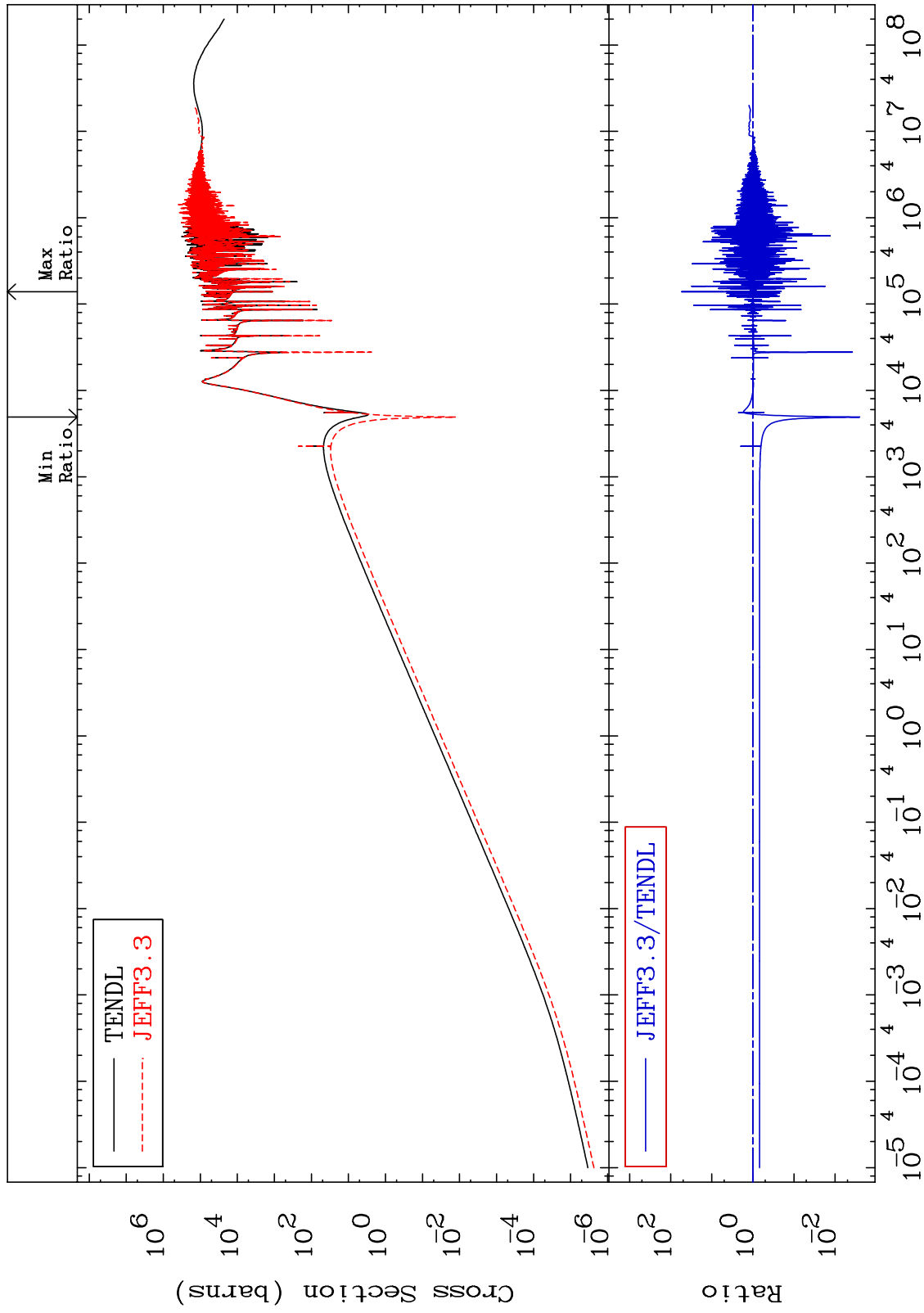
MAT 2831 Kerma total (eV-barns) Cross Section 28-Ni-60
 -98.57 To 5524. %



MAT 2831

Kerma elastic
Cross Section

28-Ni-60
-99.75 To 5437. %

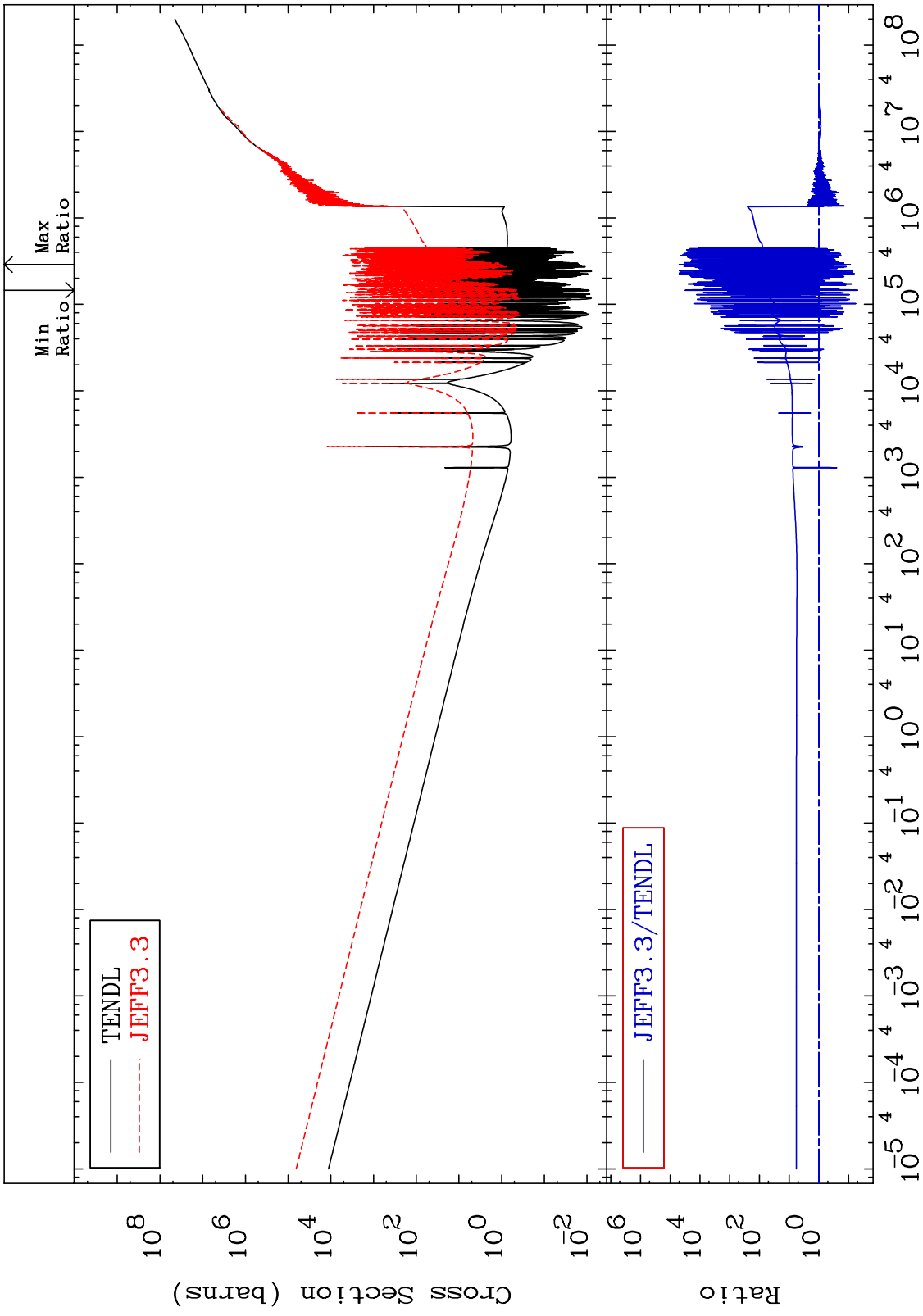


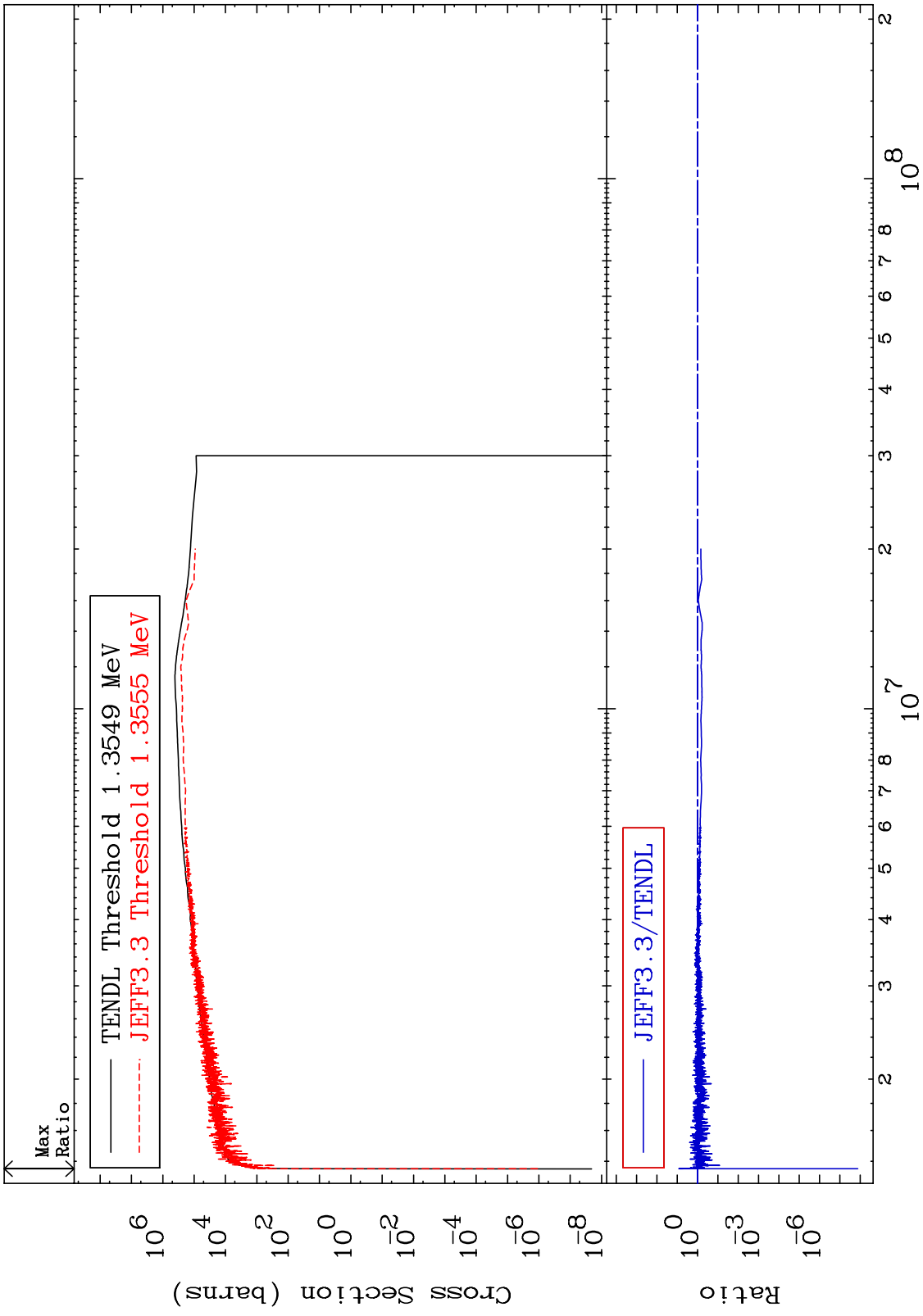
31

Incident Energy (eV)

28-Ni-60

MAT 2831 Kerma non-elastic (all but mt2) 28-Ni-60
 Cross Section -95.09 To 9999. %

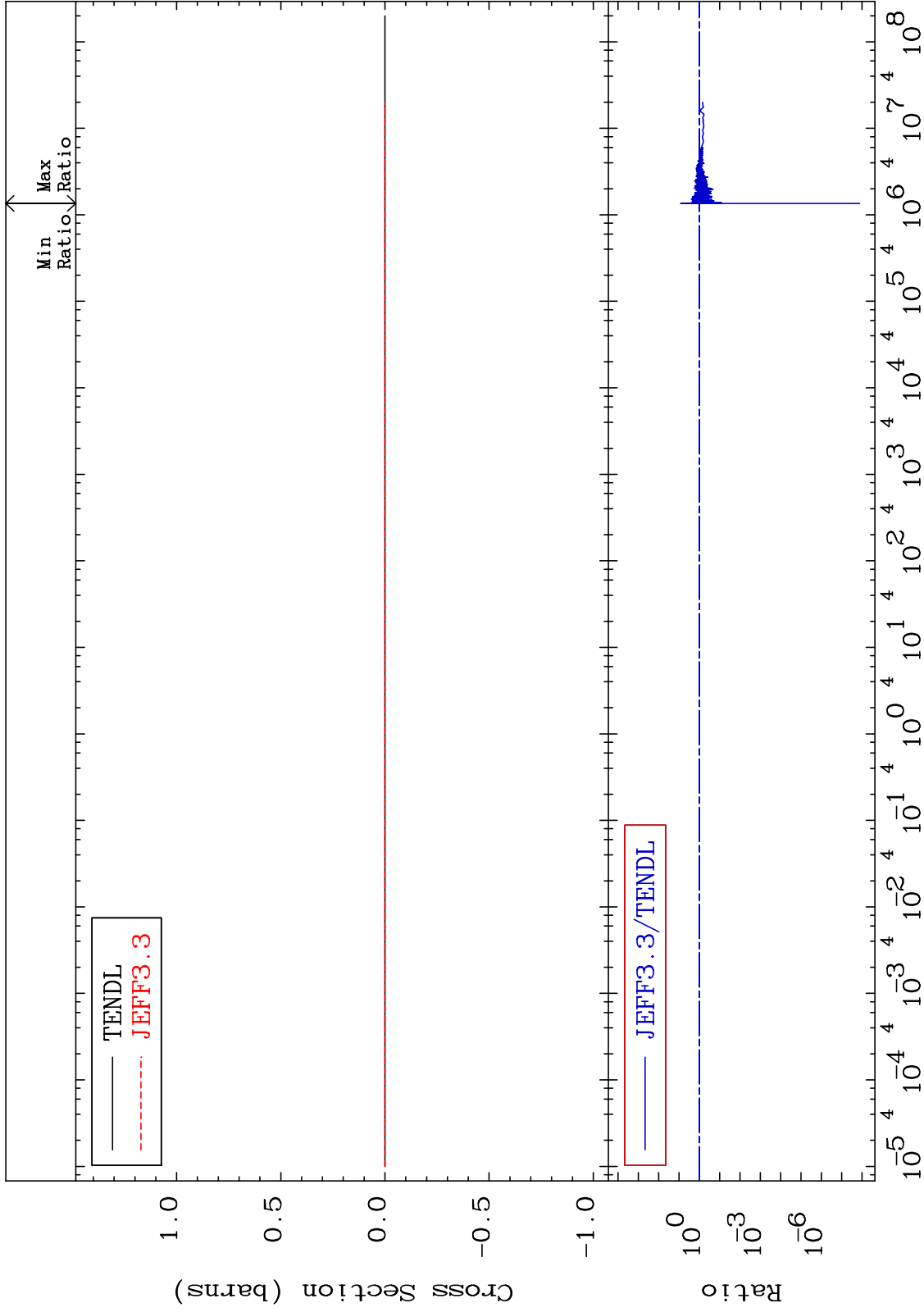




MAT 2831

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

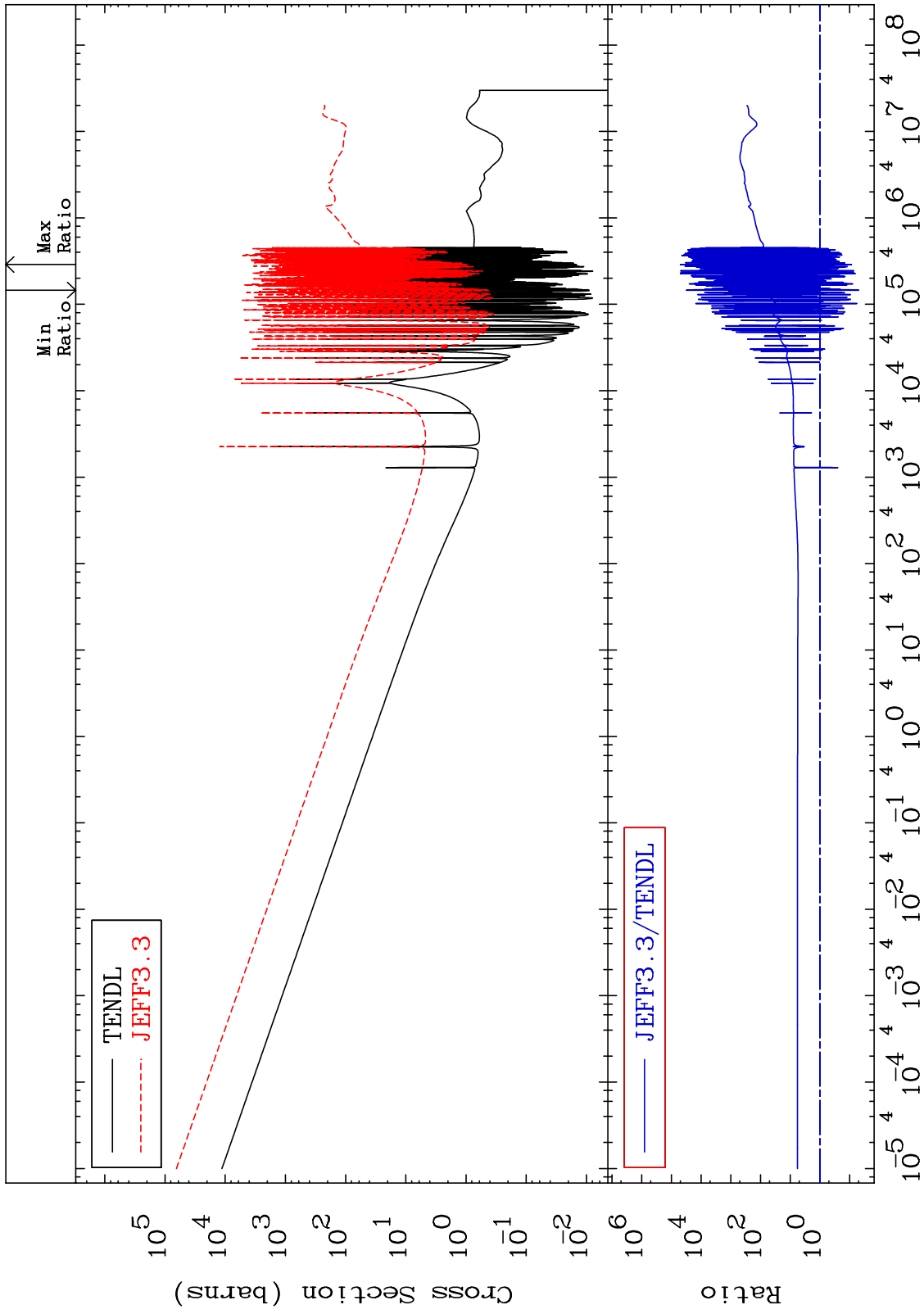
28-Ni-60
-100.0 To 717.4 %



MAT 2831

Kerma capture (mt102)
Cross Section

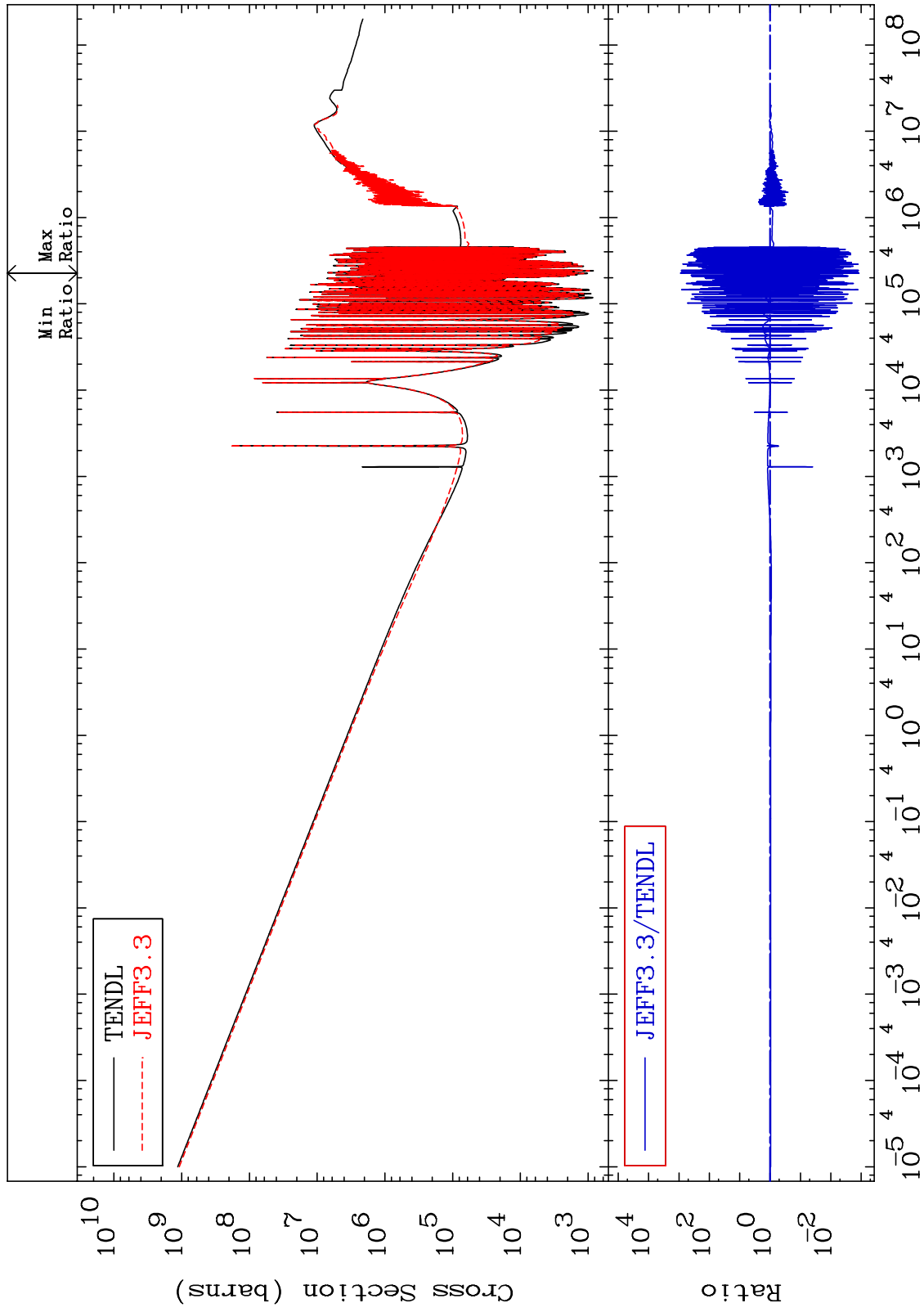
28-Ni-60
-95.09 To 9999. %



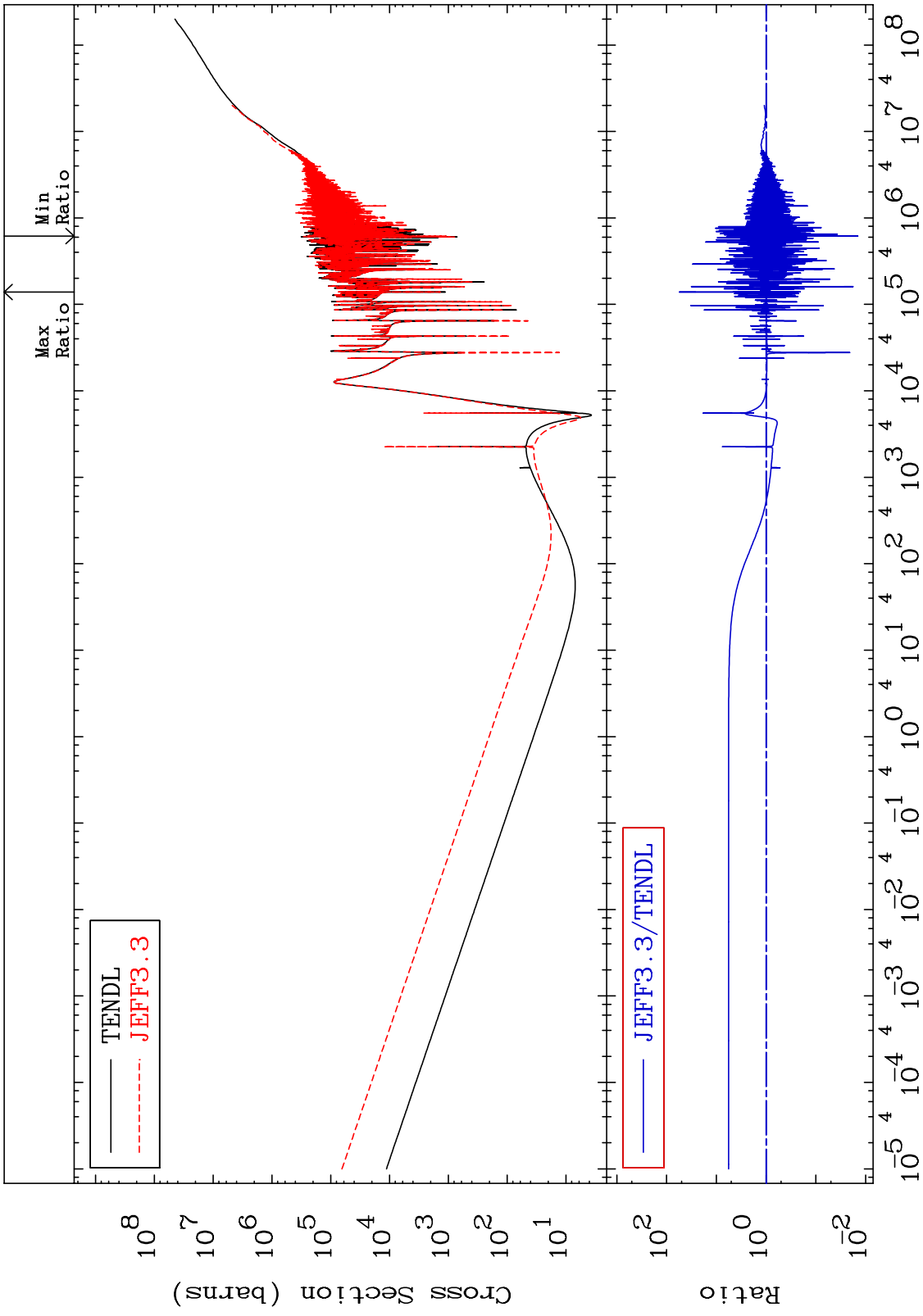
MAT 2831

Total photon (eV-barns)
Cross Section

28-Ni-60
-99.88 To 9999. %



MAT 2831 Total kinematic kerma (high limit) 28-Ni-60
 Cross Section -98.57 To 5524. %

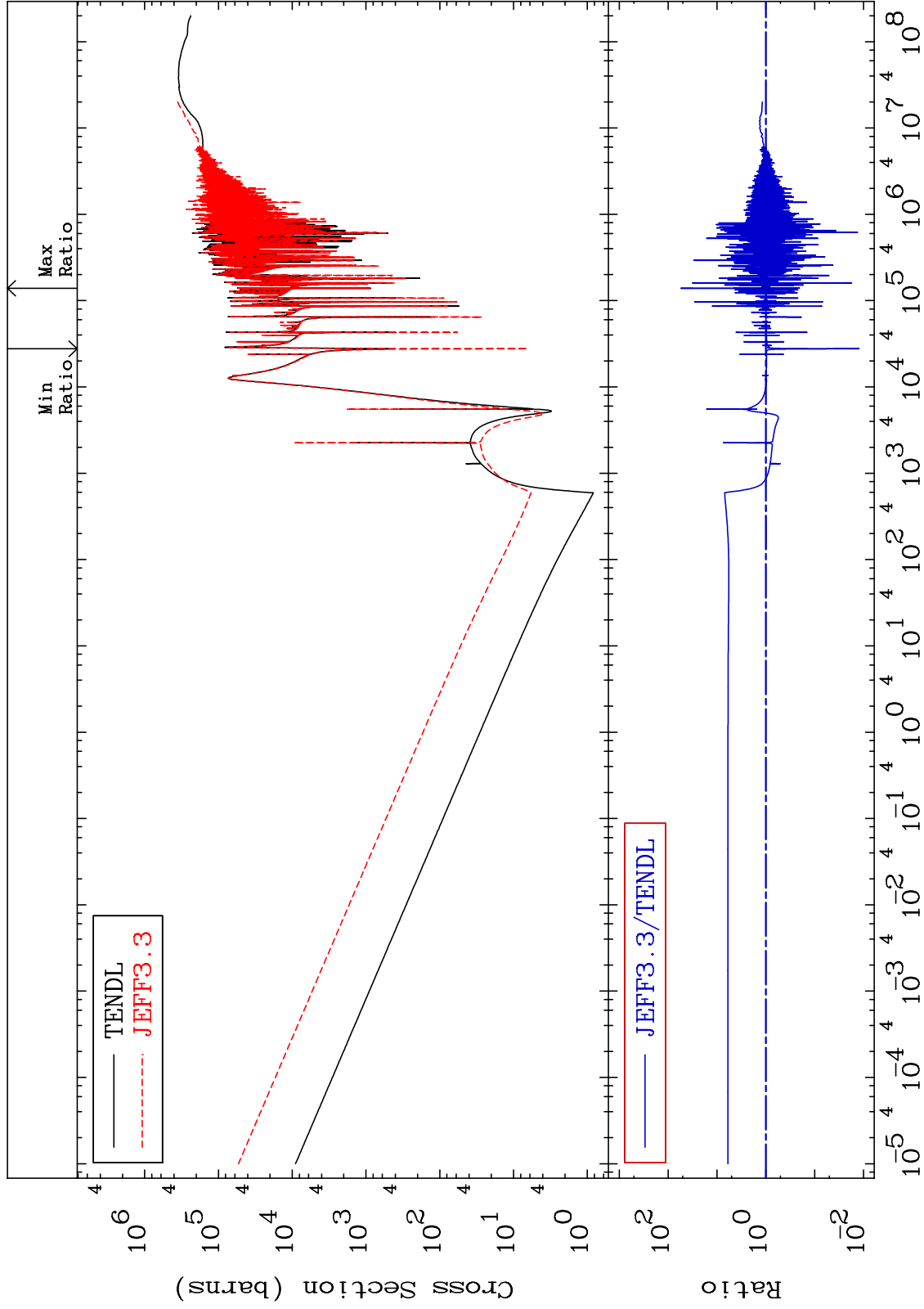


37 Incident Energy (eV) 28-Ni-60

MAT 2831

Dpa total (eV-barns)
Cross Section

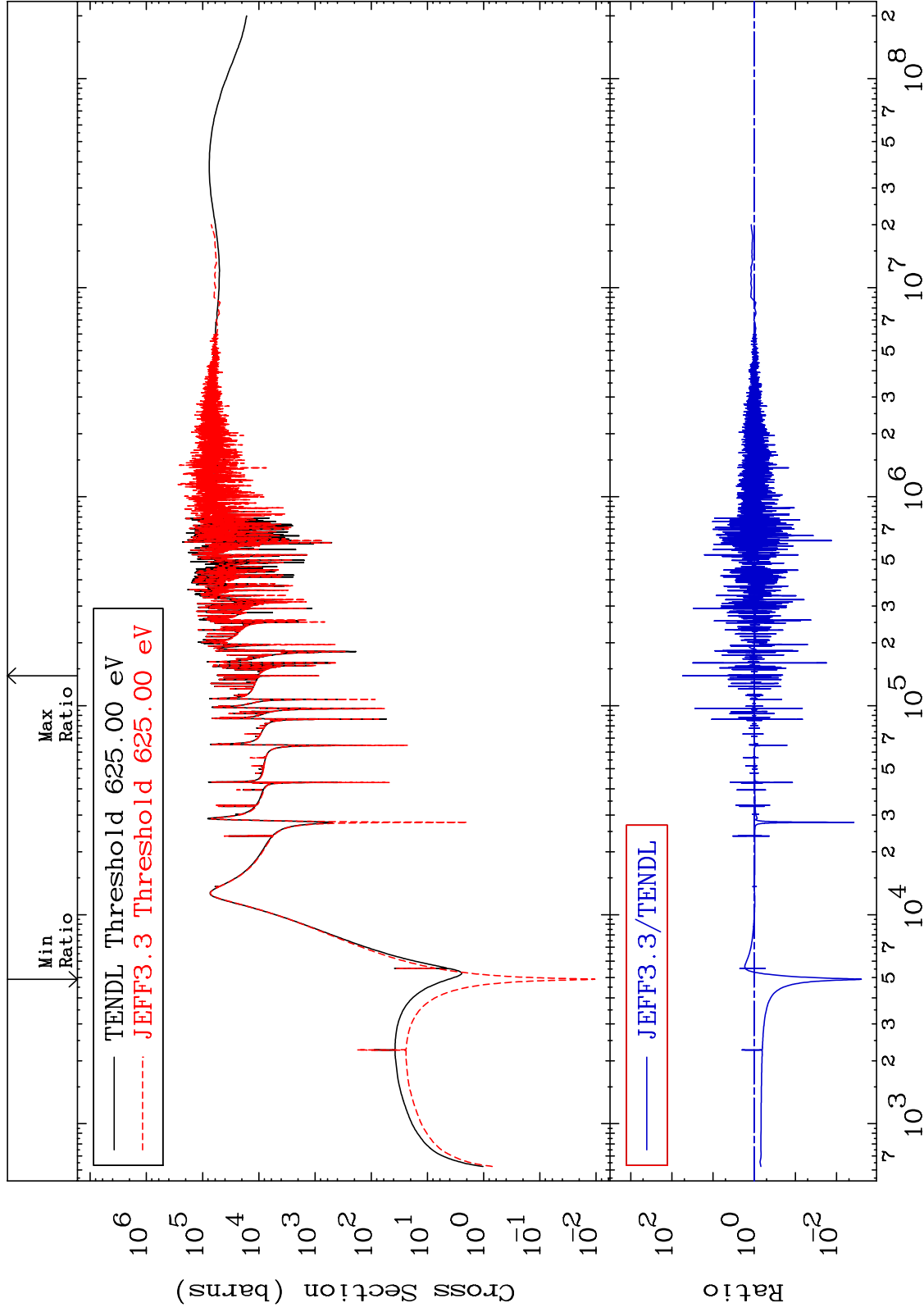
28-Ni-60
-98.77 To 5423. %



MAT 2831

Dpa elastic (mt2)
Cross Section

28-Ni-60
-99.75 To 5438. %

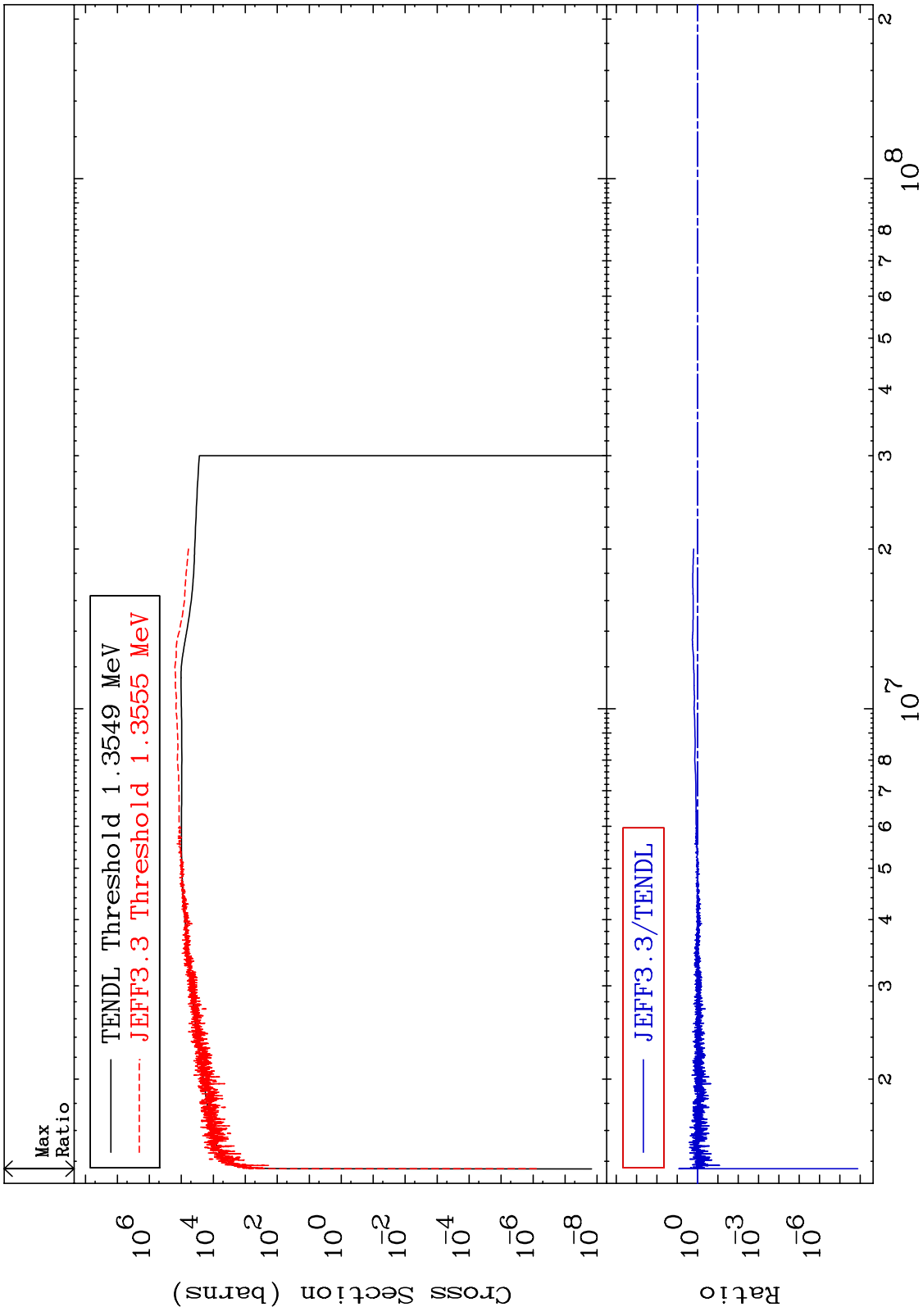


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Incident Energy (eV)

28-Ni-60

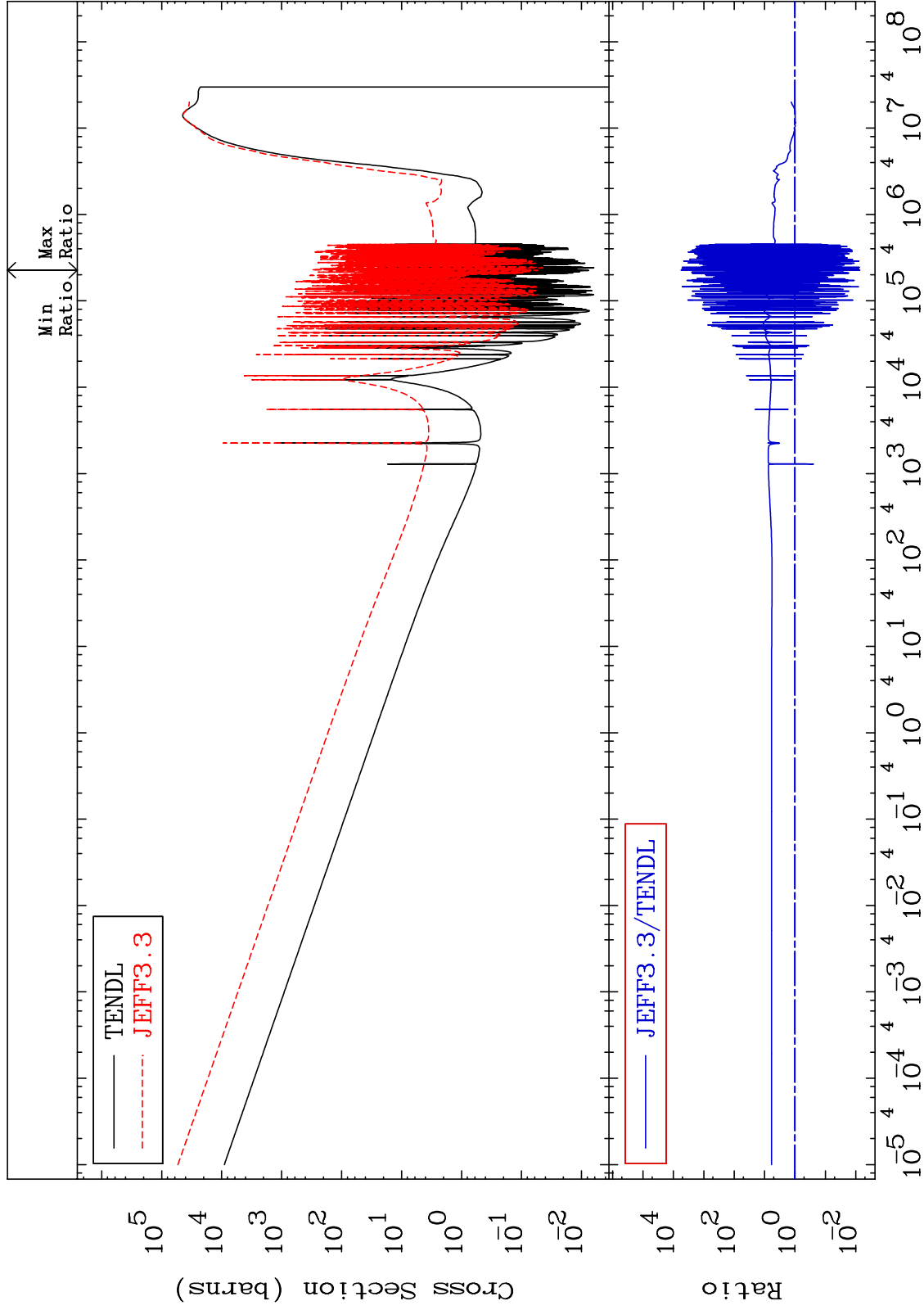
MAT 2831 Dpa inelastic (mt51-91) 28-Ni-60
 Cross Section -100.0 To 718.5 %



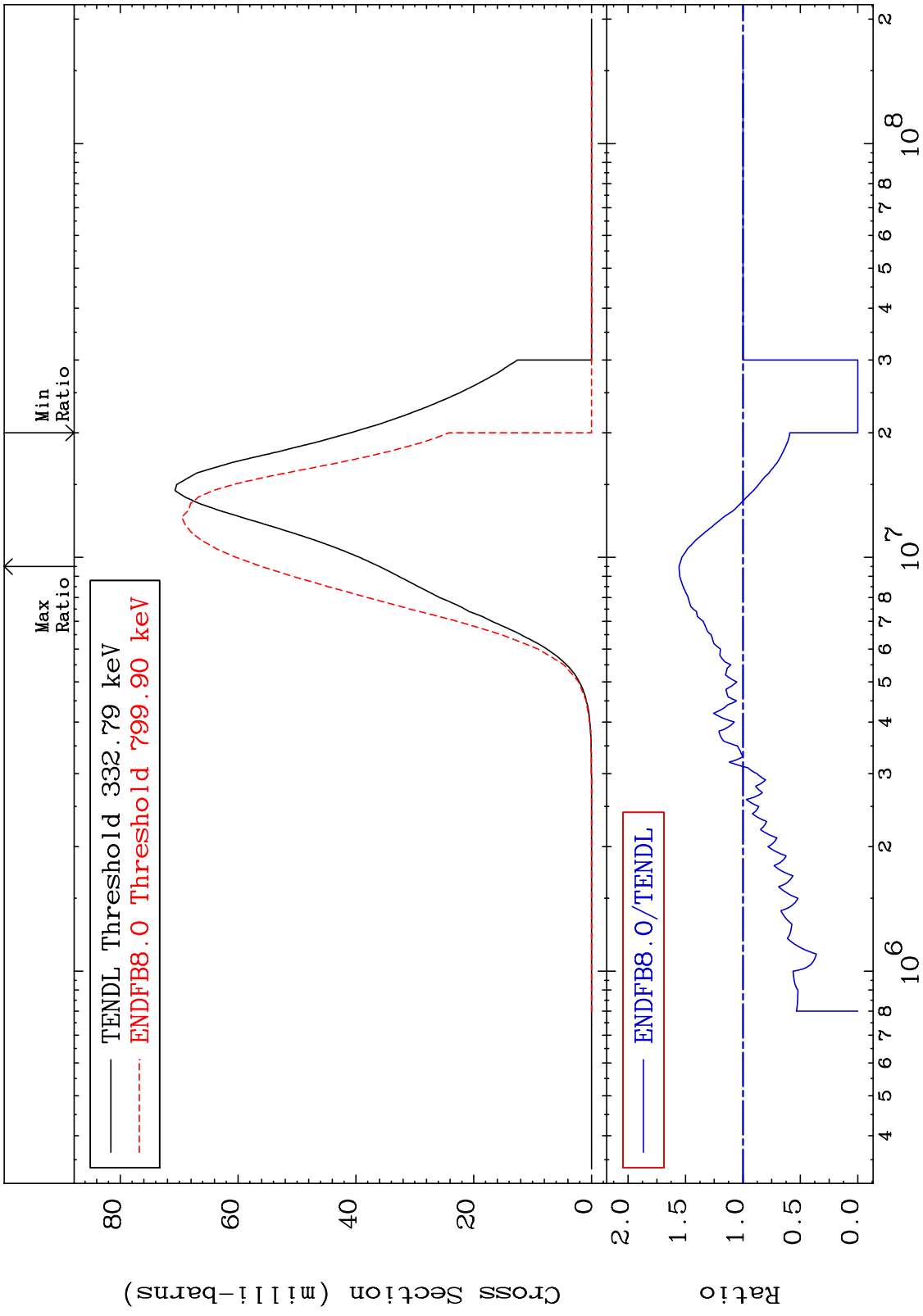
MAT 2831

Dpa disappearance (mt102 -120)
Cross Section

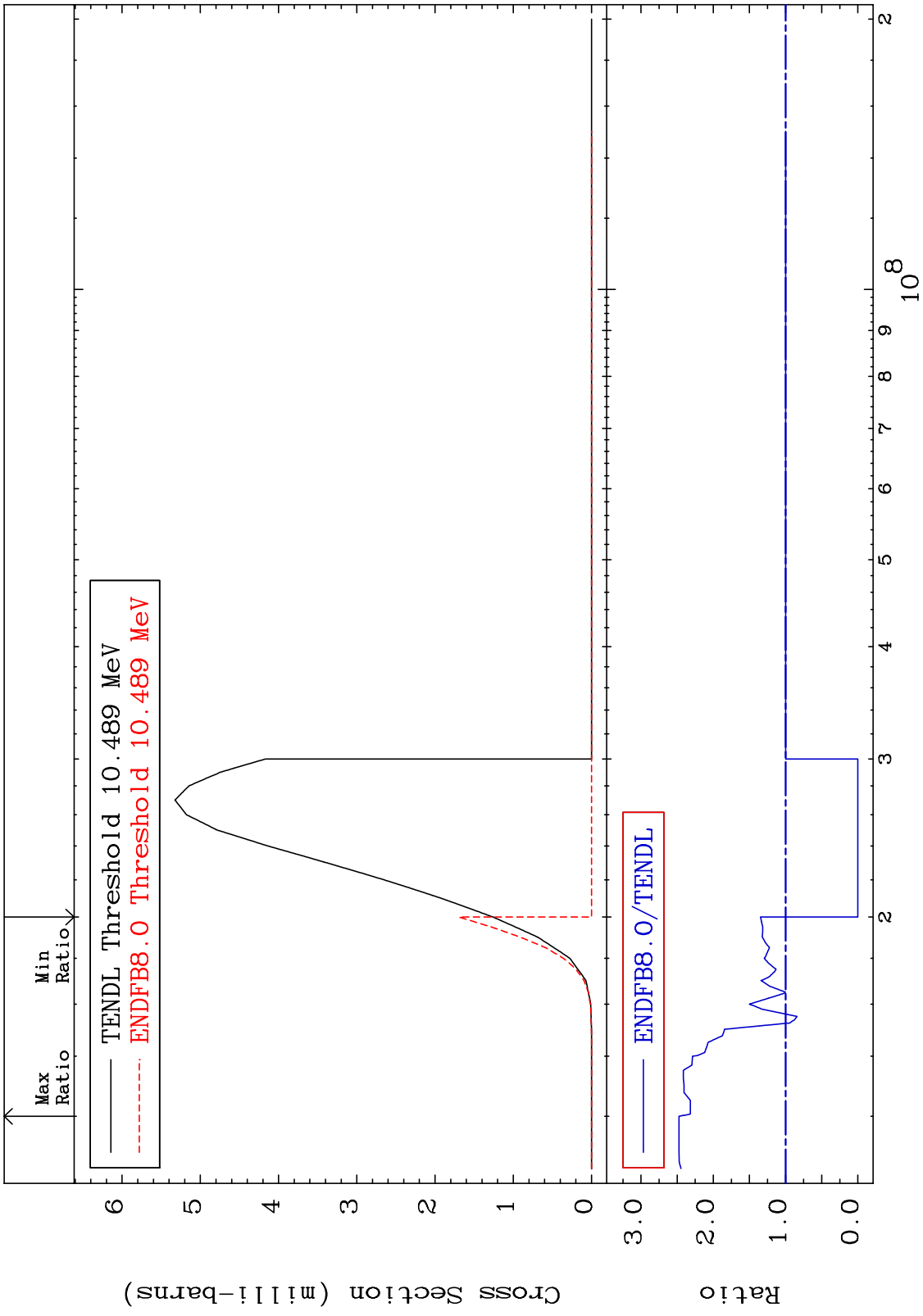
28-Ni-60
-99.26 To 9999. %



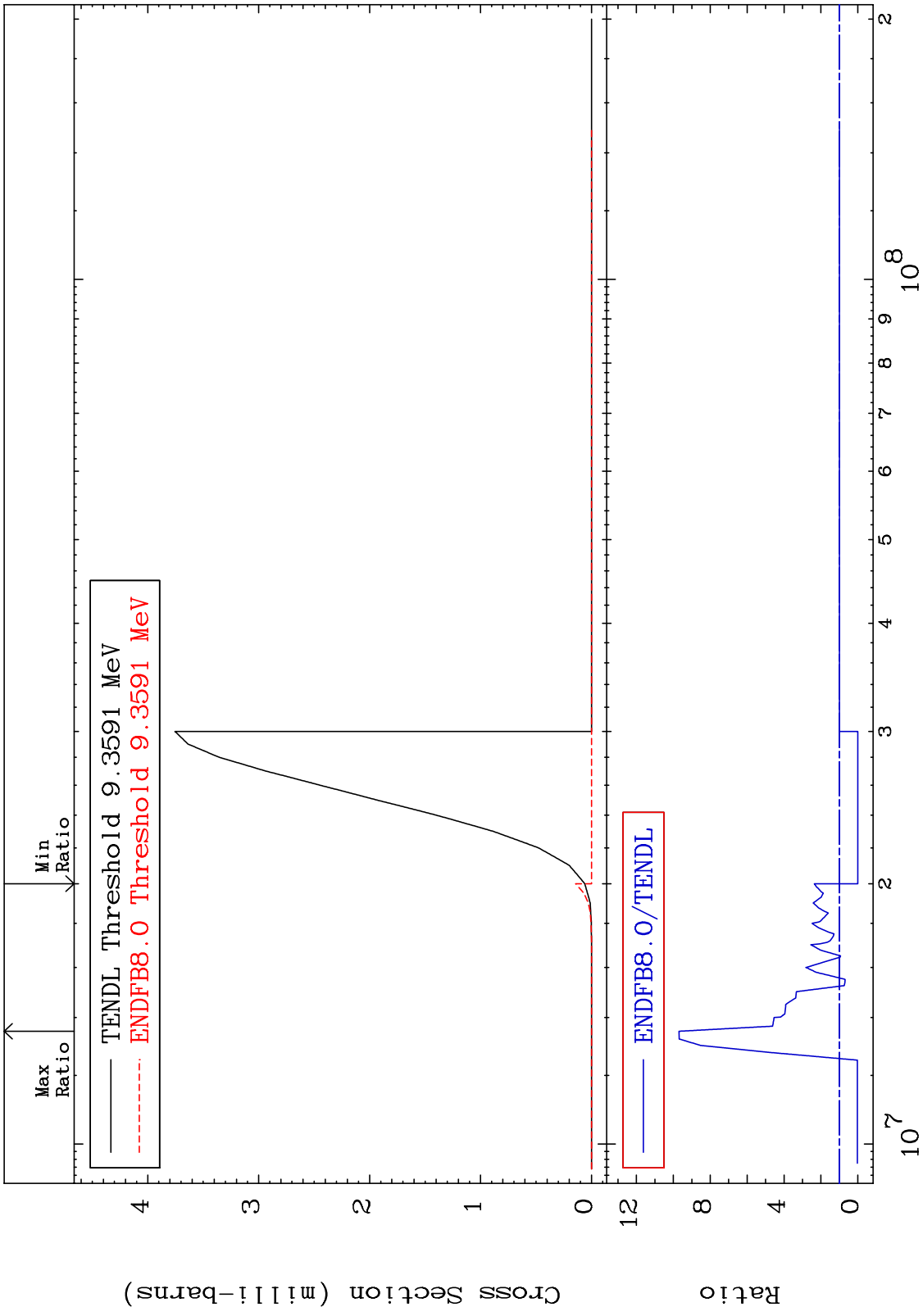
MAT 2831 $^{28}\text{Ni-60}$ (n, α) $^{28}\text{Ni-60}$
 -100.0 To 55.64 %



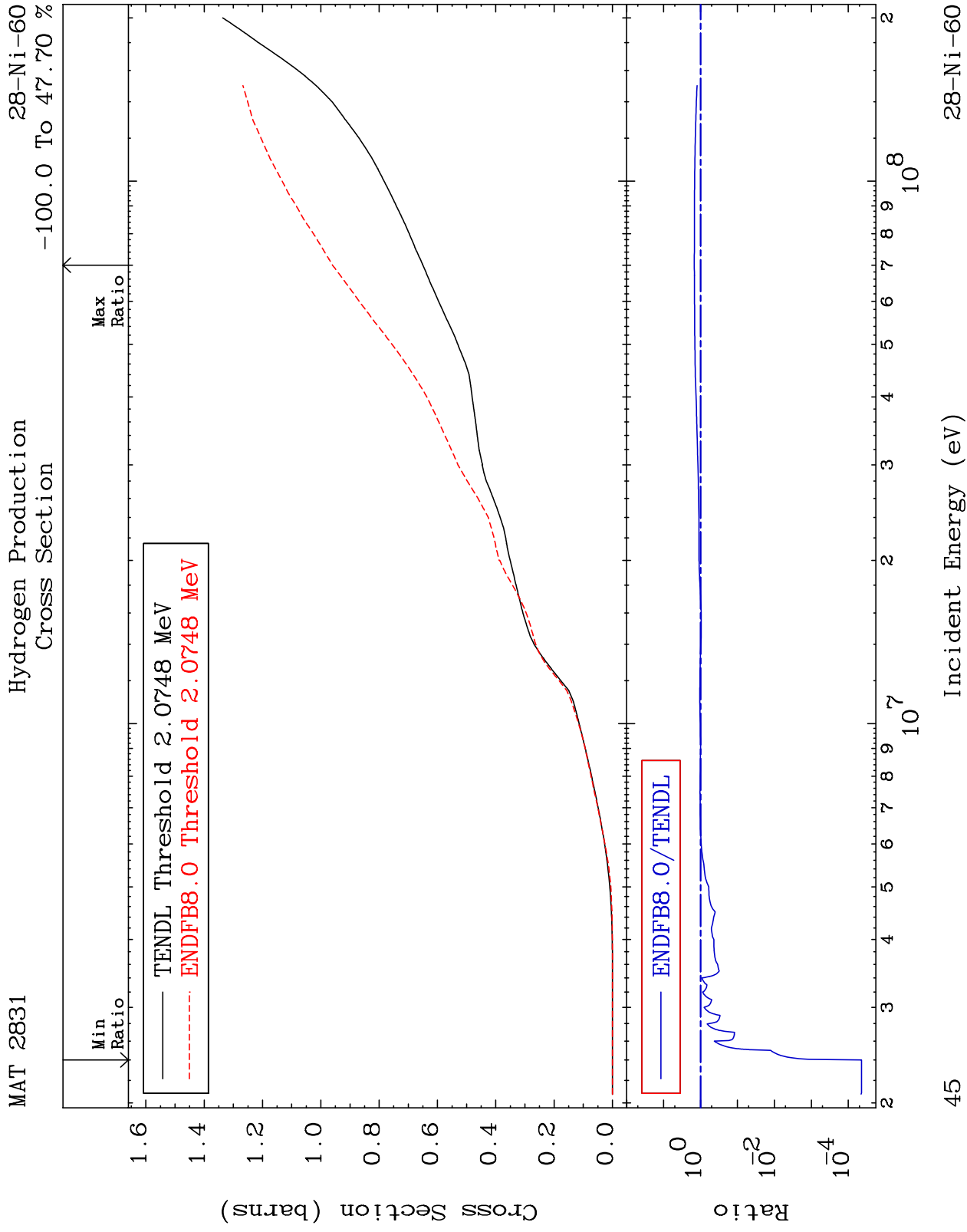
MAT 2831 (n,2p) Cross Section 28-Ni-60 -100.0 To 147.4 %



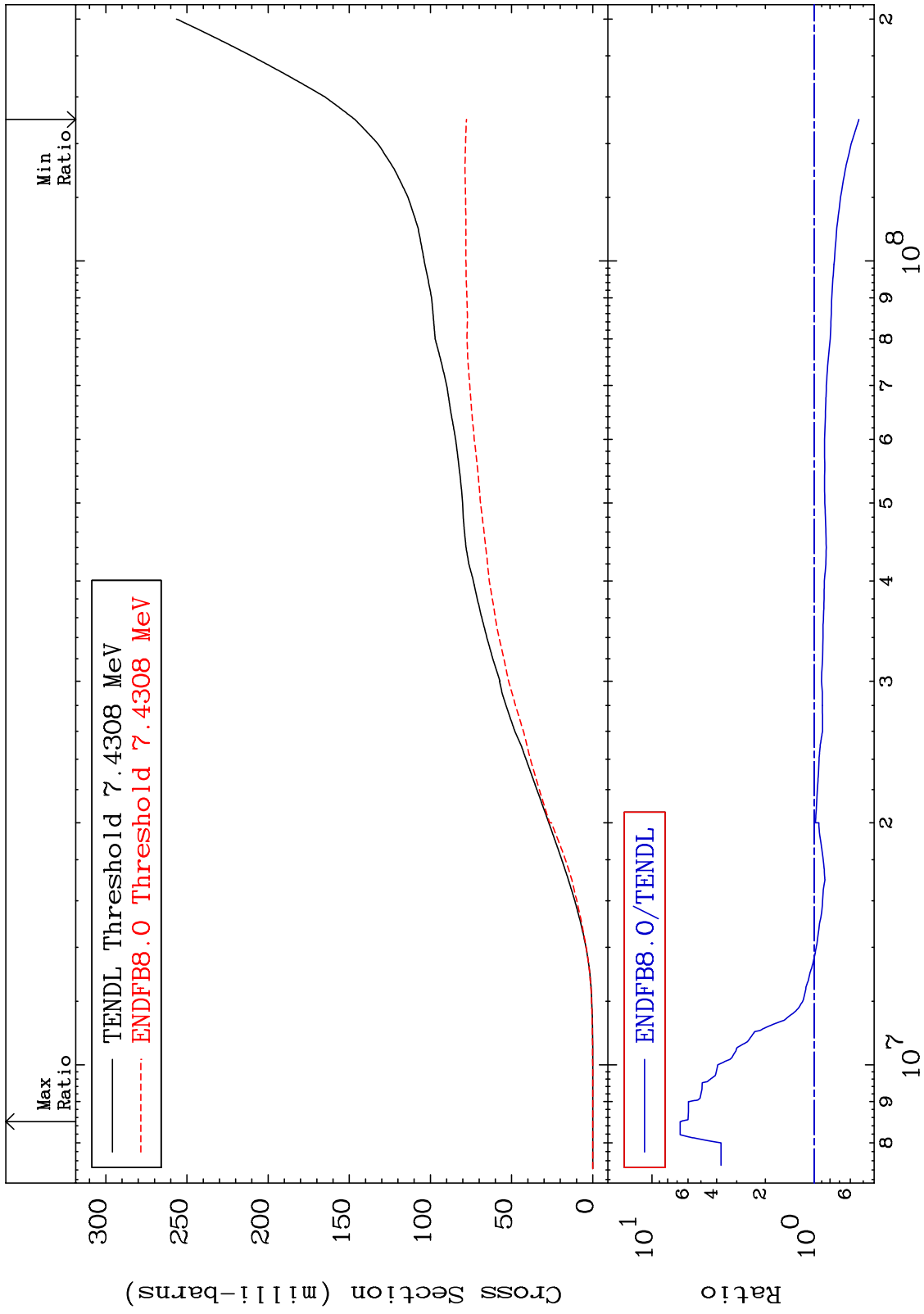
MAT 2831 $(n,p) \alpha$ 28-Ni-60
 Cross Section -100.0 To 869.1 %



44 28-Ni-60 Incident Energy (eV)



MAT 2831 Deuterium Production Cross Section 28-Ni-60 -46.91 To 569.6 %

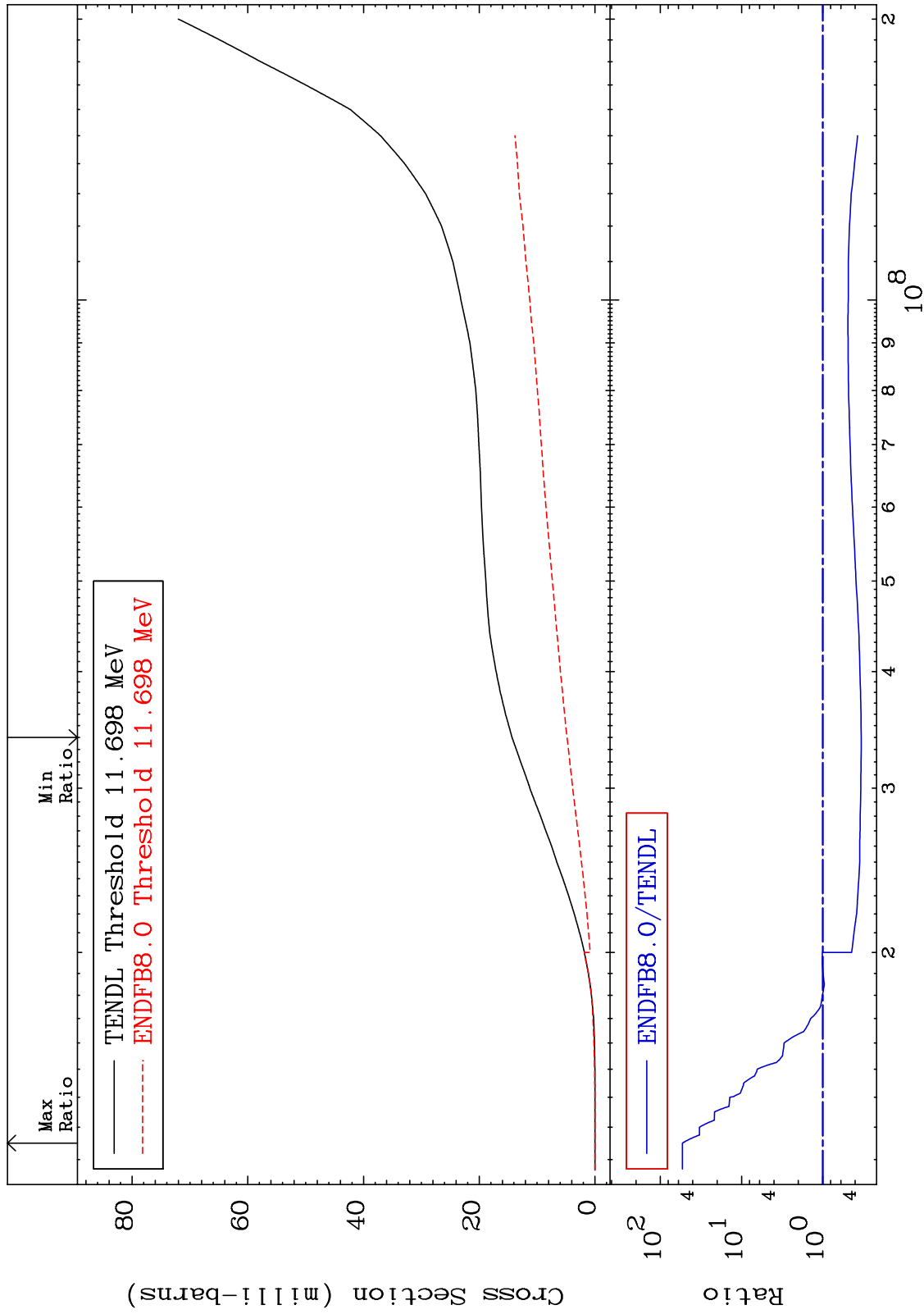


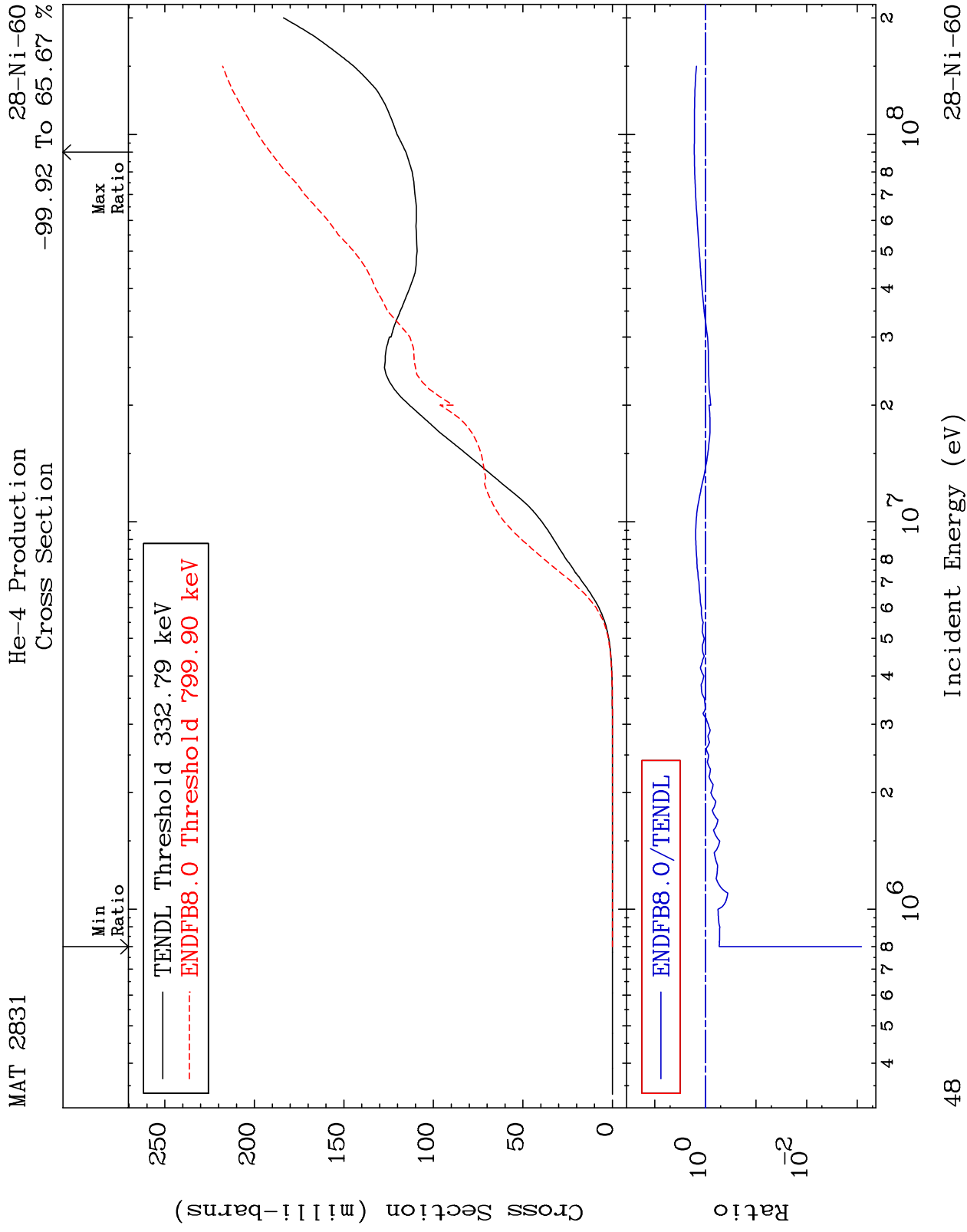
46 28-Ni-60

MAT 2831

Tritium Production
Cross Section

28-Ni-60
-66.40 To 5249. %

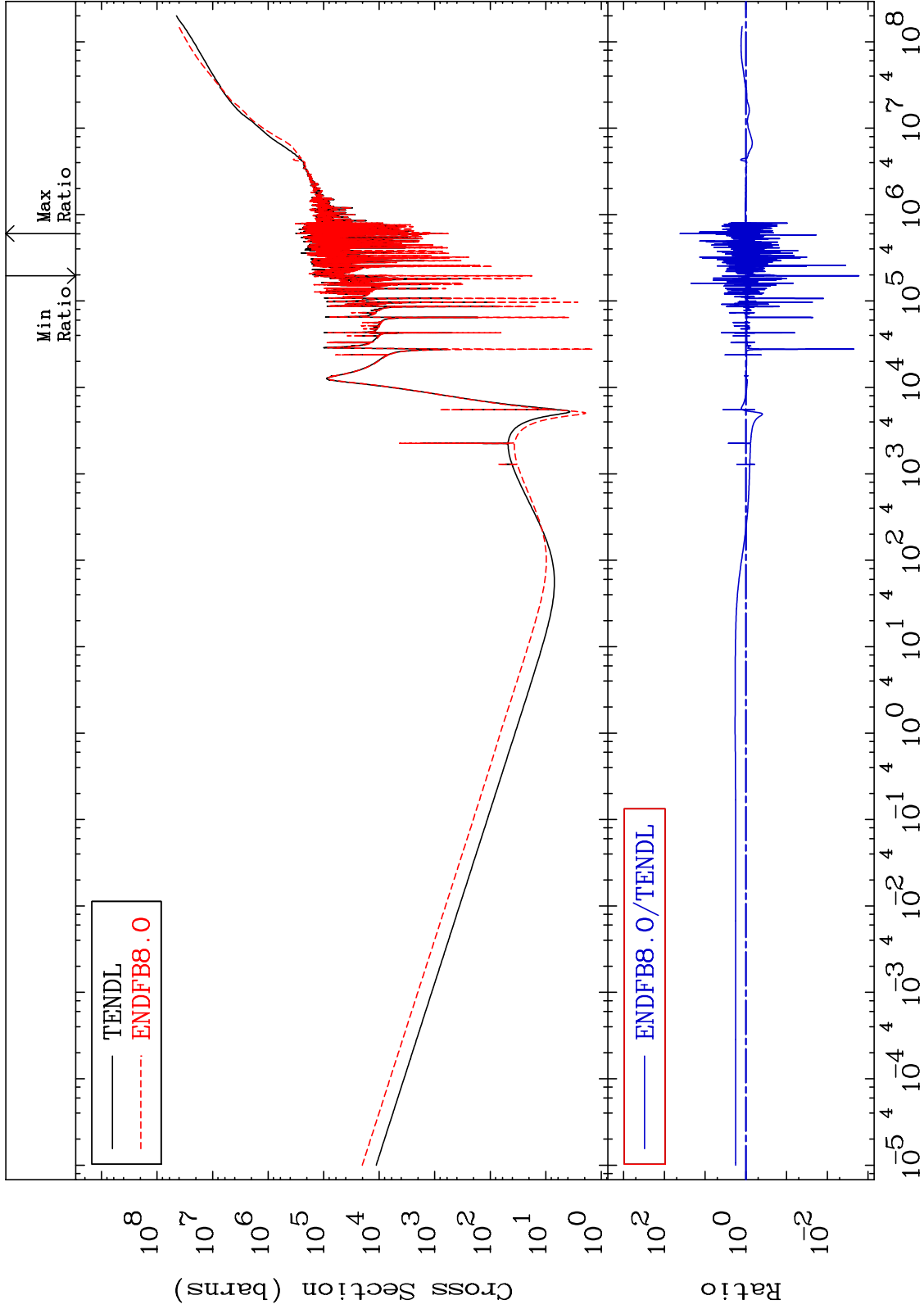




MAT 2831

Kerma total (eV-barns)
Cross Section

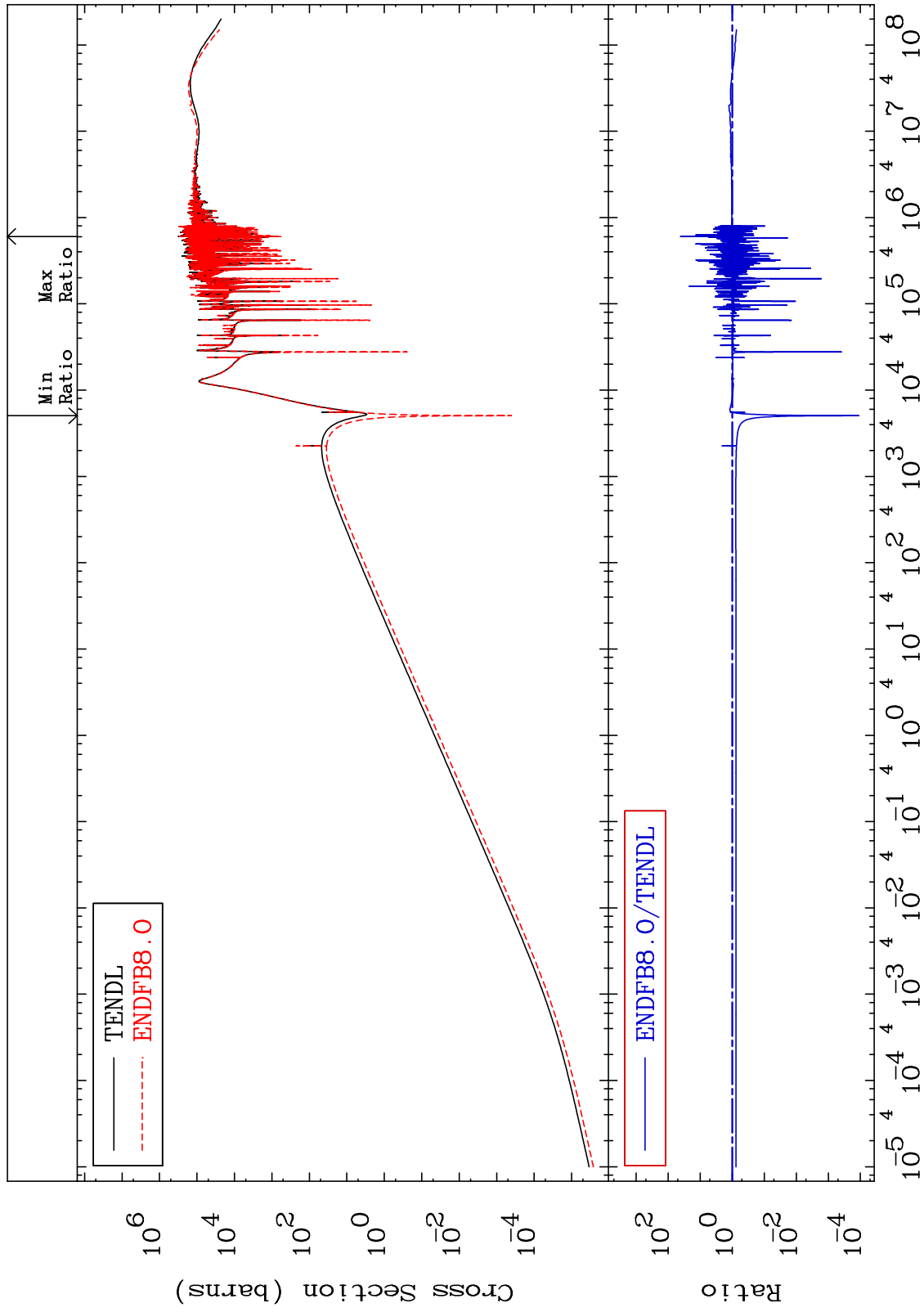
28-Ni-60
-99.83 To 3987. %



MAT 2831

Kerma elastic
Cross Section

28-Ni-60
-99.99 To 3986. %

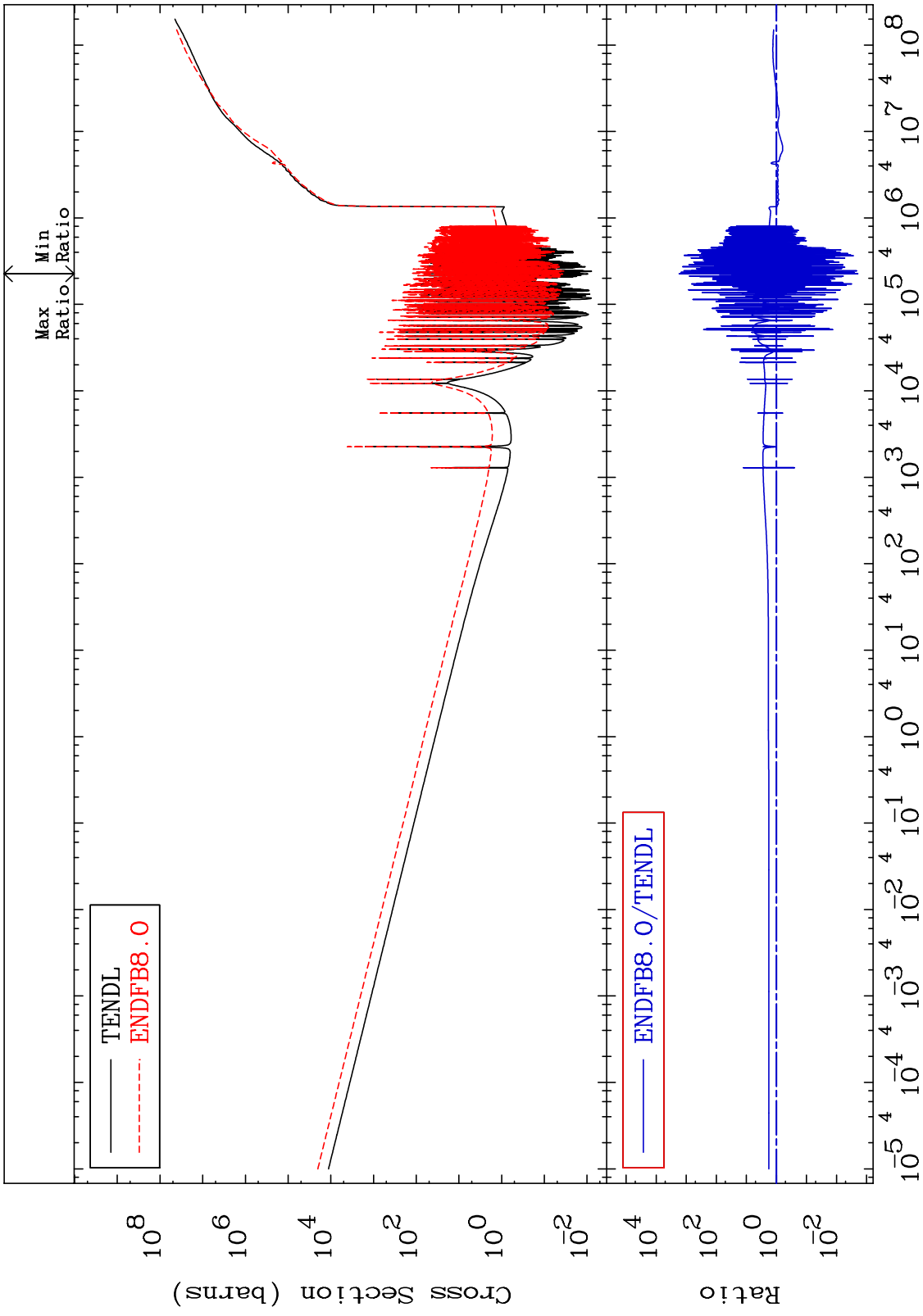


50

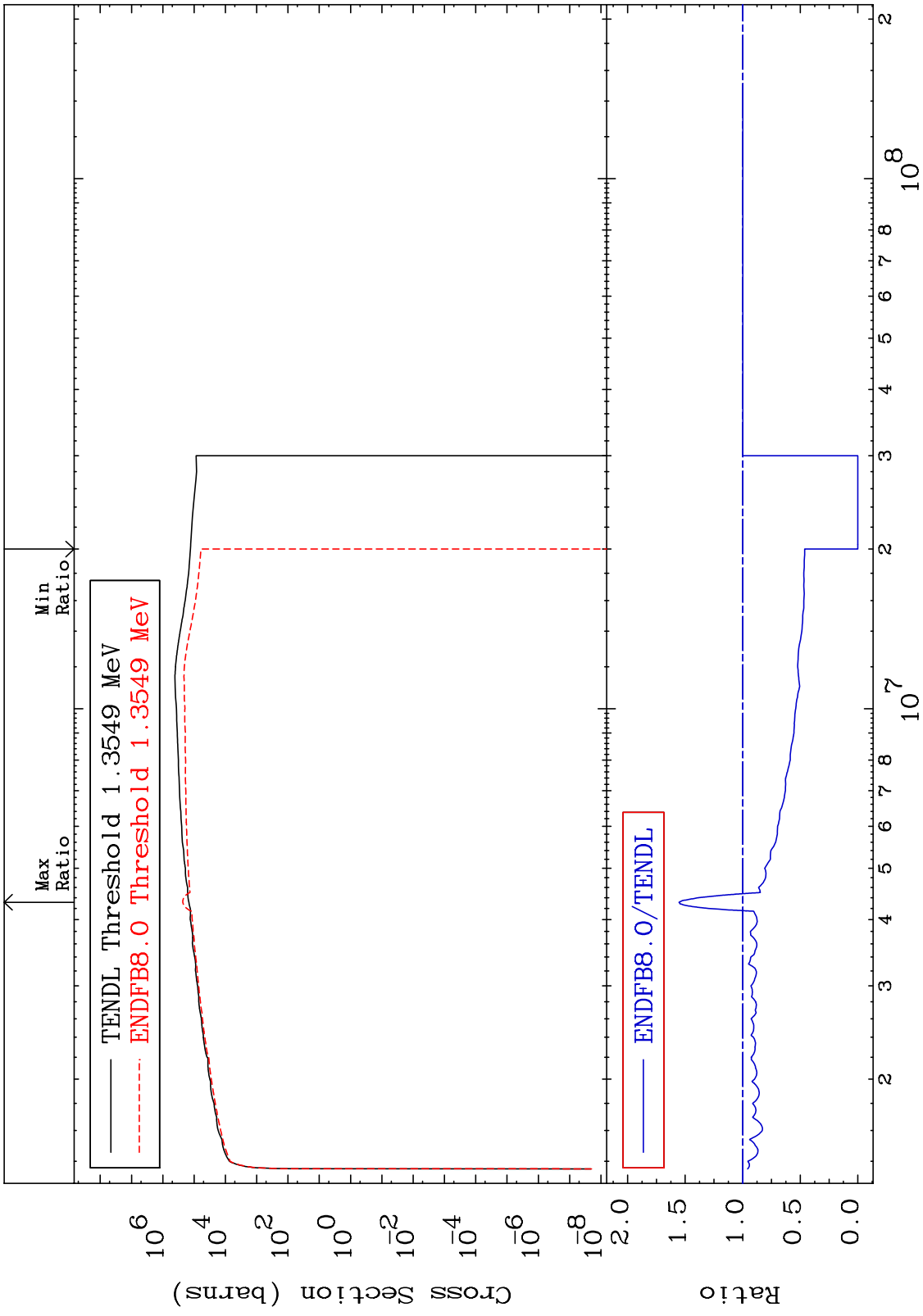
Incident Energy (eV)

28-Ni-60

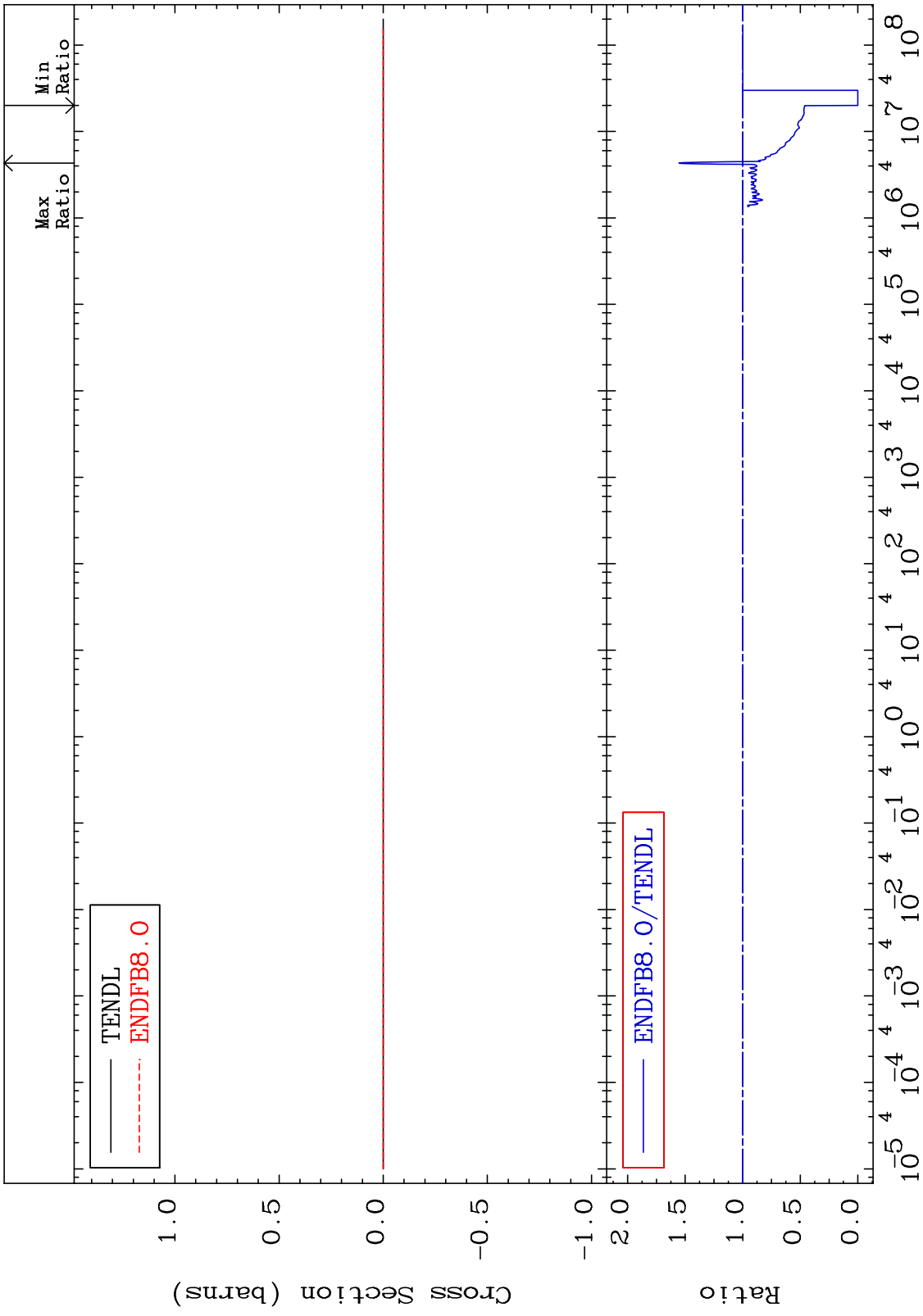
MAT 2831 Kerma non-elastic (all but mt2) 28-Ni-60
 Cross Section -99.80 To 9999. %



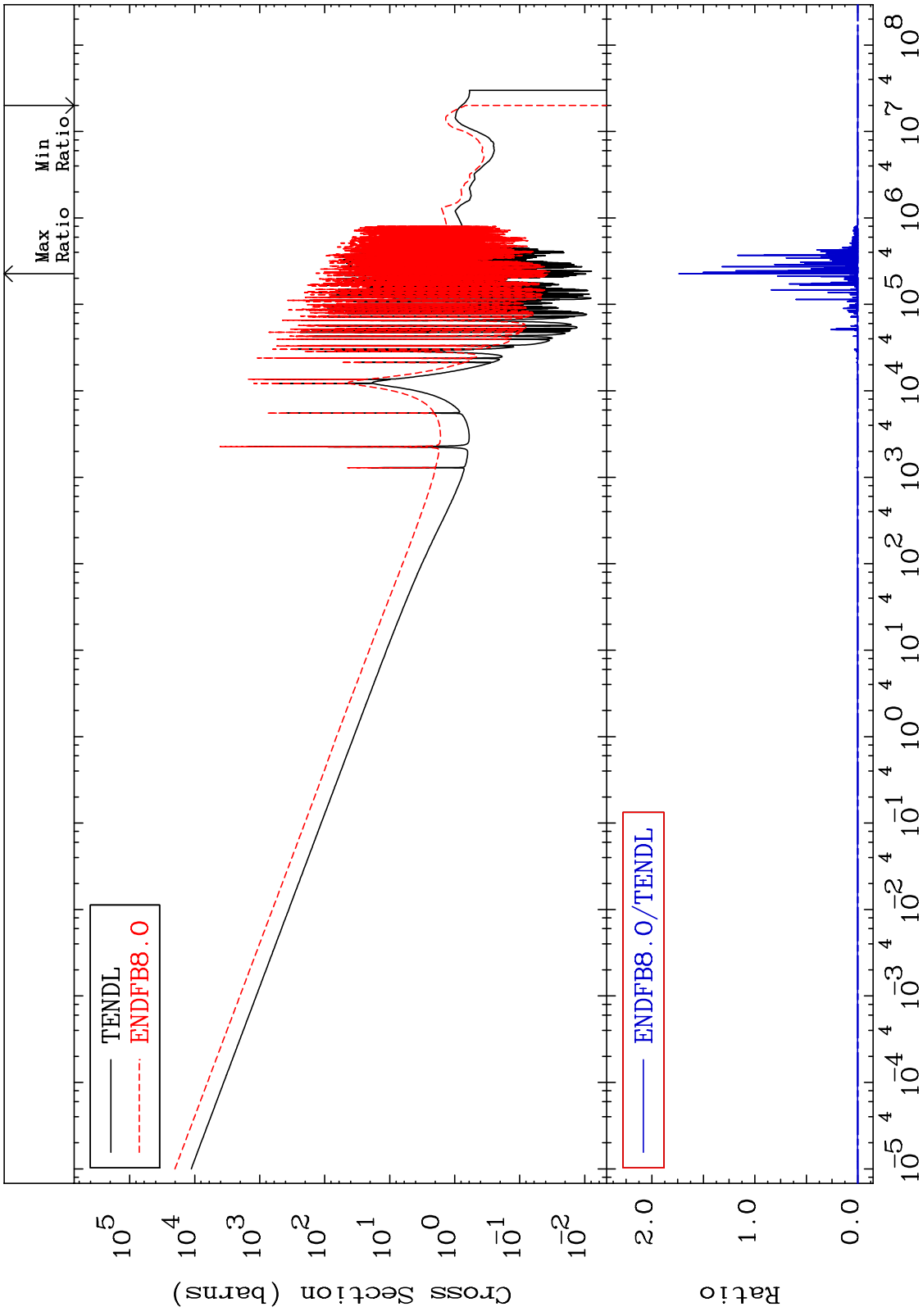
MAT 2831 Kerma inelastic (mt51-91) 28-Ni-60
 -100.0 To 55.33 %
 Cross Section



MAT 2831 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-60
 Cross Section -100.0 To 55.33 %



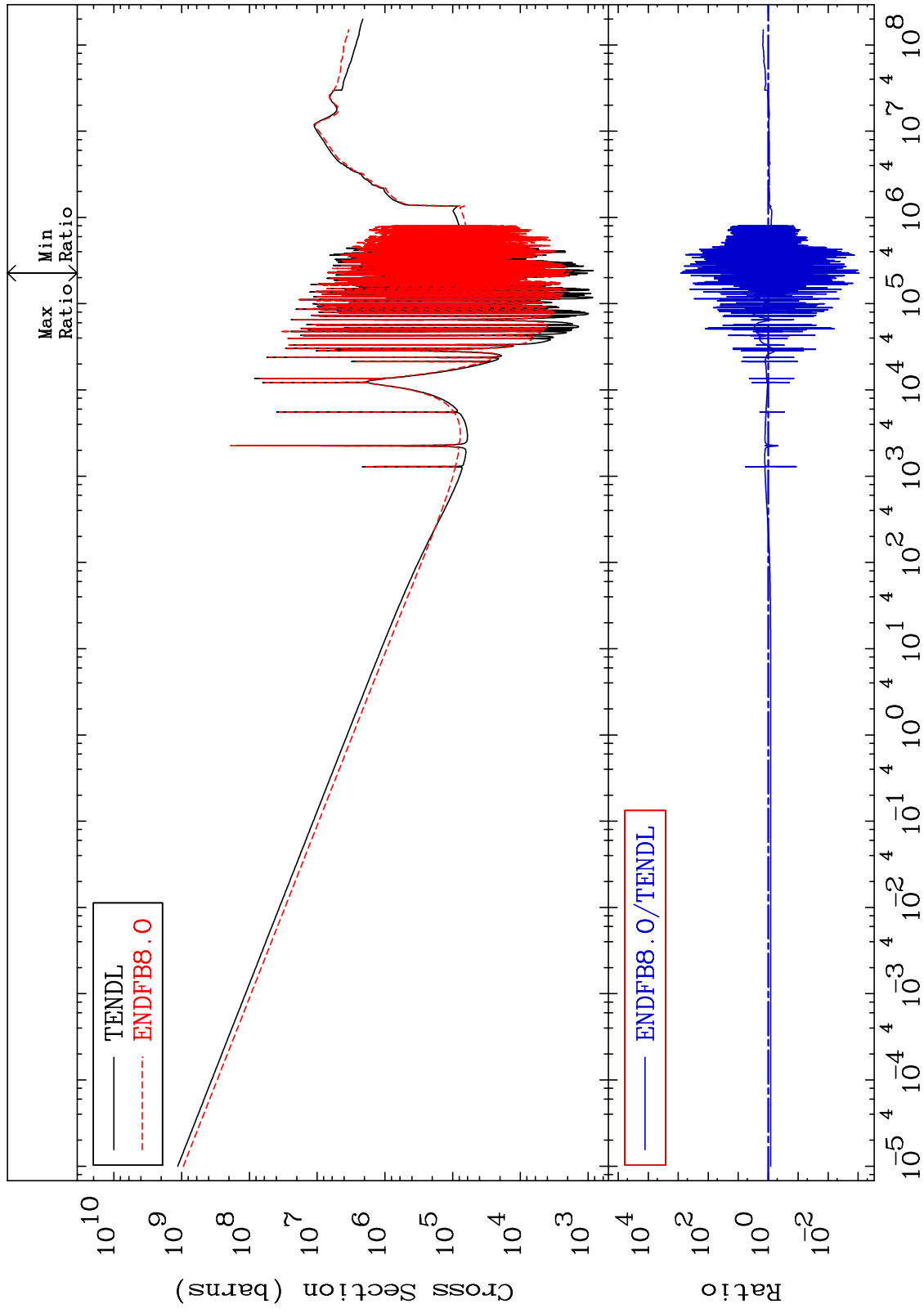
MAT 2831 Kerma capture (mt102) 28-Ni-60
 Cross Section -100.0 To 9999. %



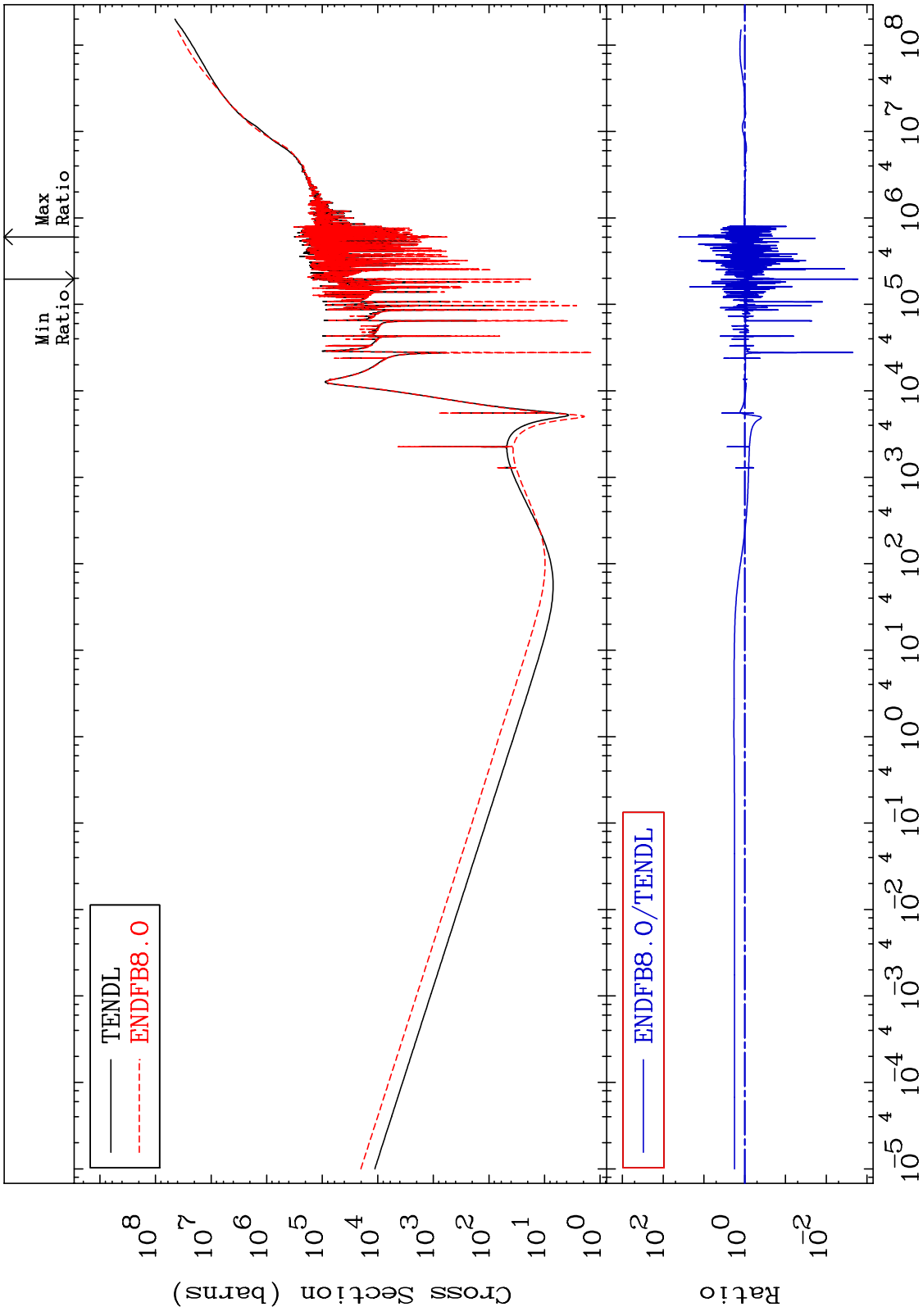
MAT 2831

Total photon (eV-barns)
Cross Section

28-Ni-60
-99.91 To 9999. %

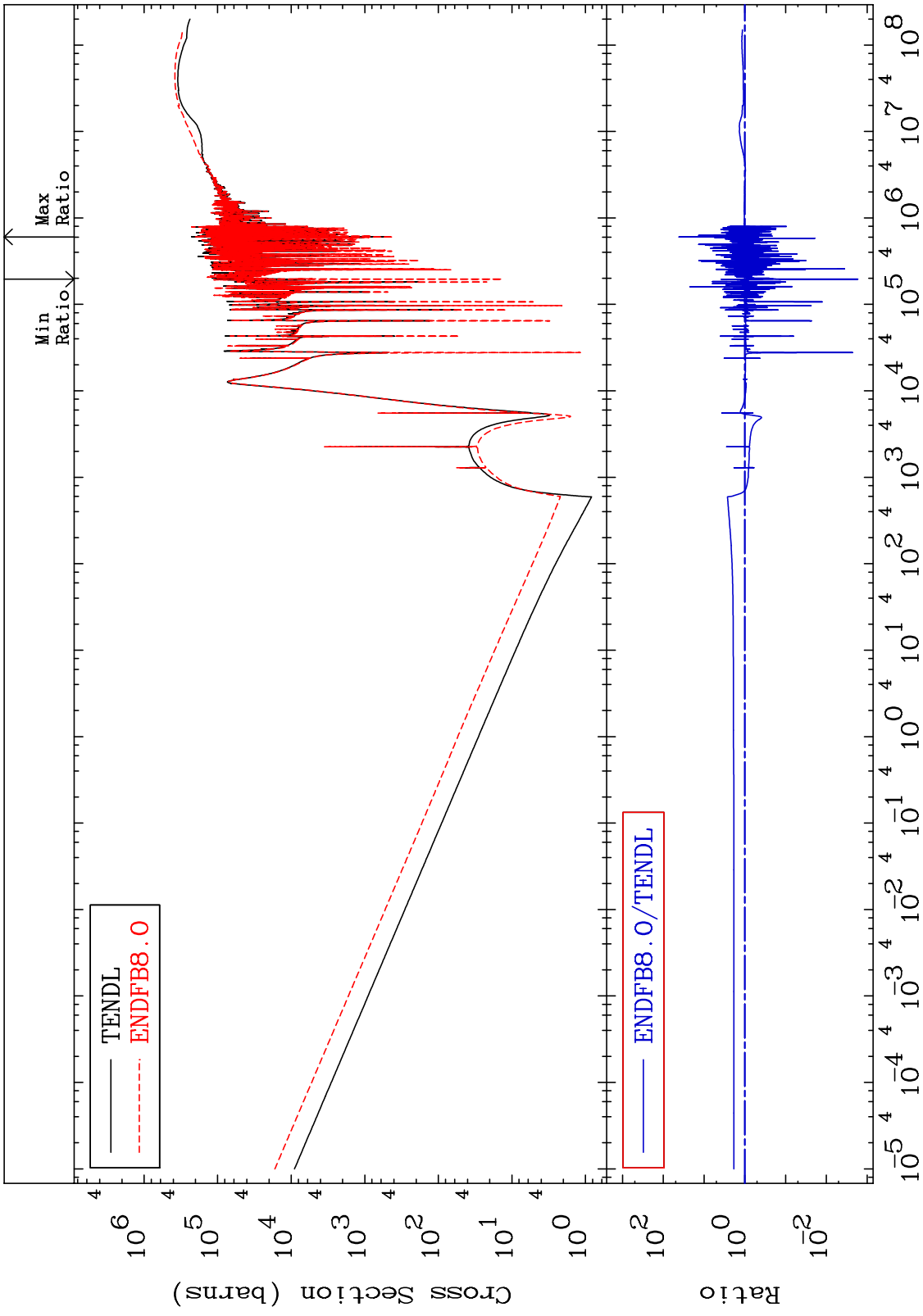


MAT 2831 Total kinematic kerma (high limit) Cross Section 28-Ni-60 -99.83 To 3987. %



56 Incident Energy (eV) 28-Ni-60

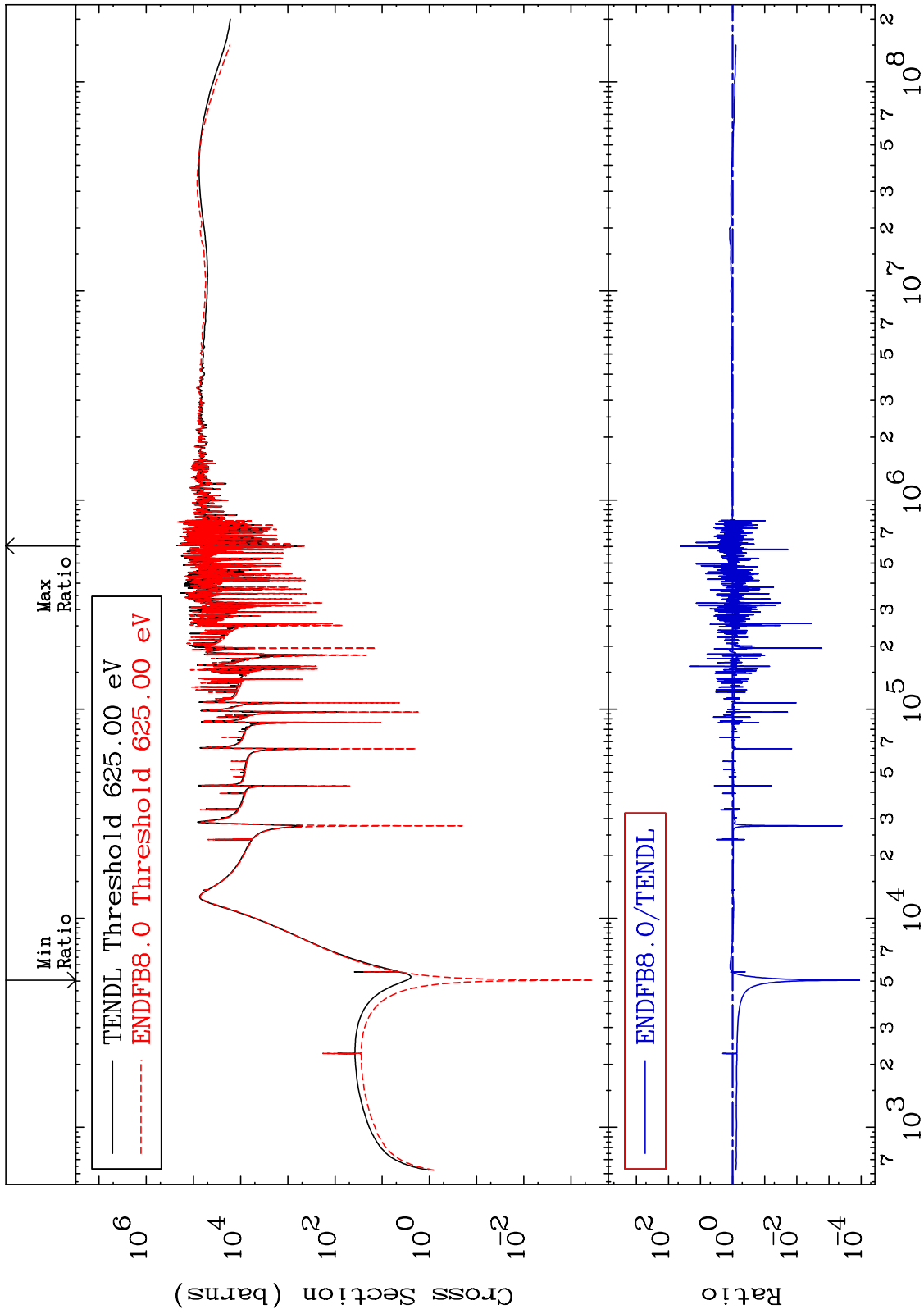
MAT 2831 Dpa total (eV-barns) 28-Ni-60
 Cross Section -99.83 To 4015. %



MAT 2831

Dpa elastic (mt2)
Cross Section

28-Ni-60
-99.99 To 4015. %



58

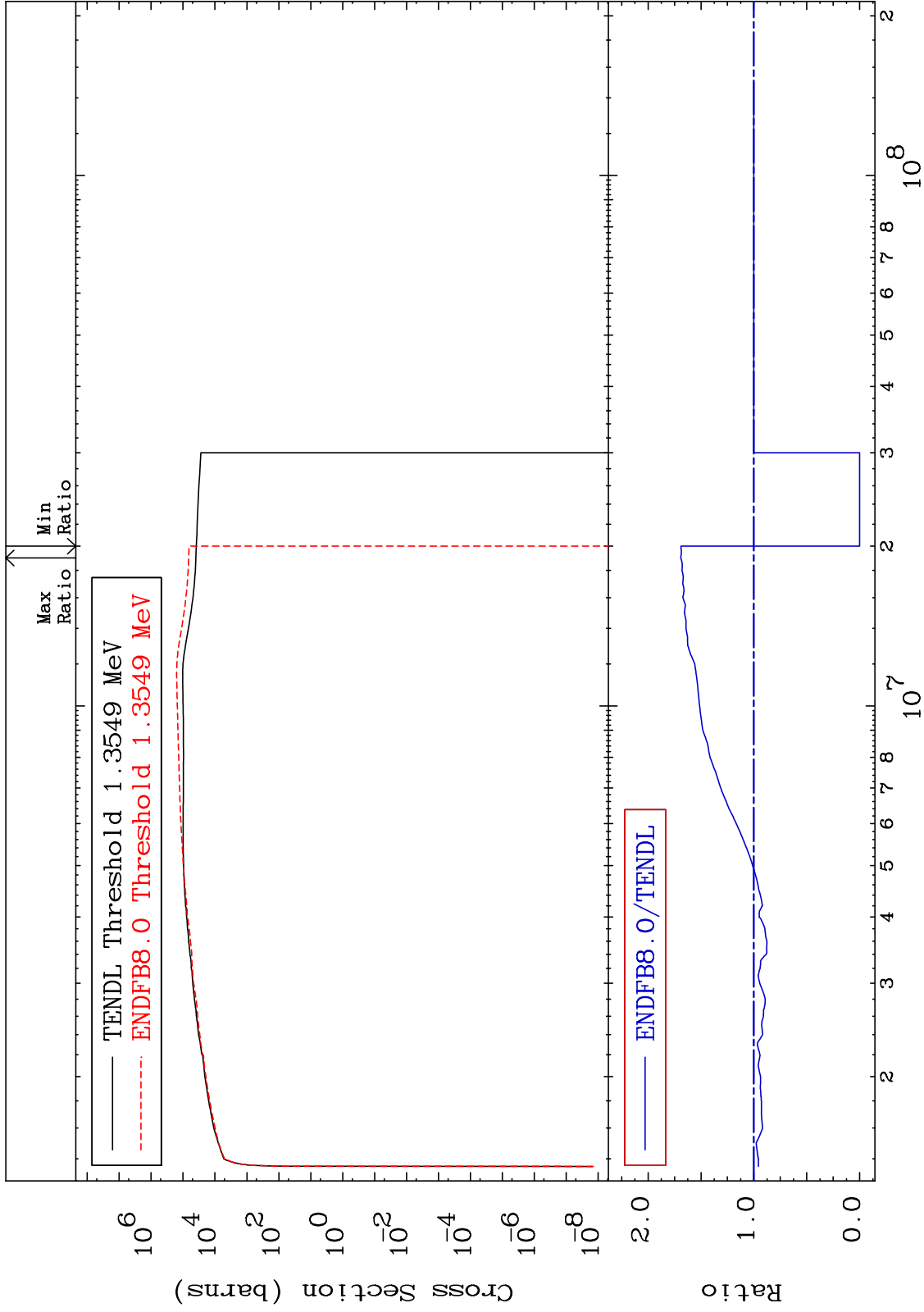
Incident Energy (eV)

28-Ni-60

MAT 2831

Dpa inelastic (mt51-91)
Cross Section

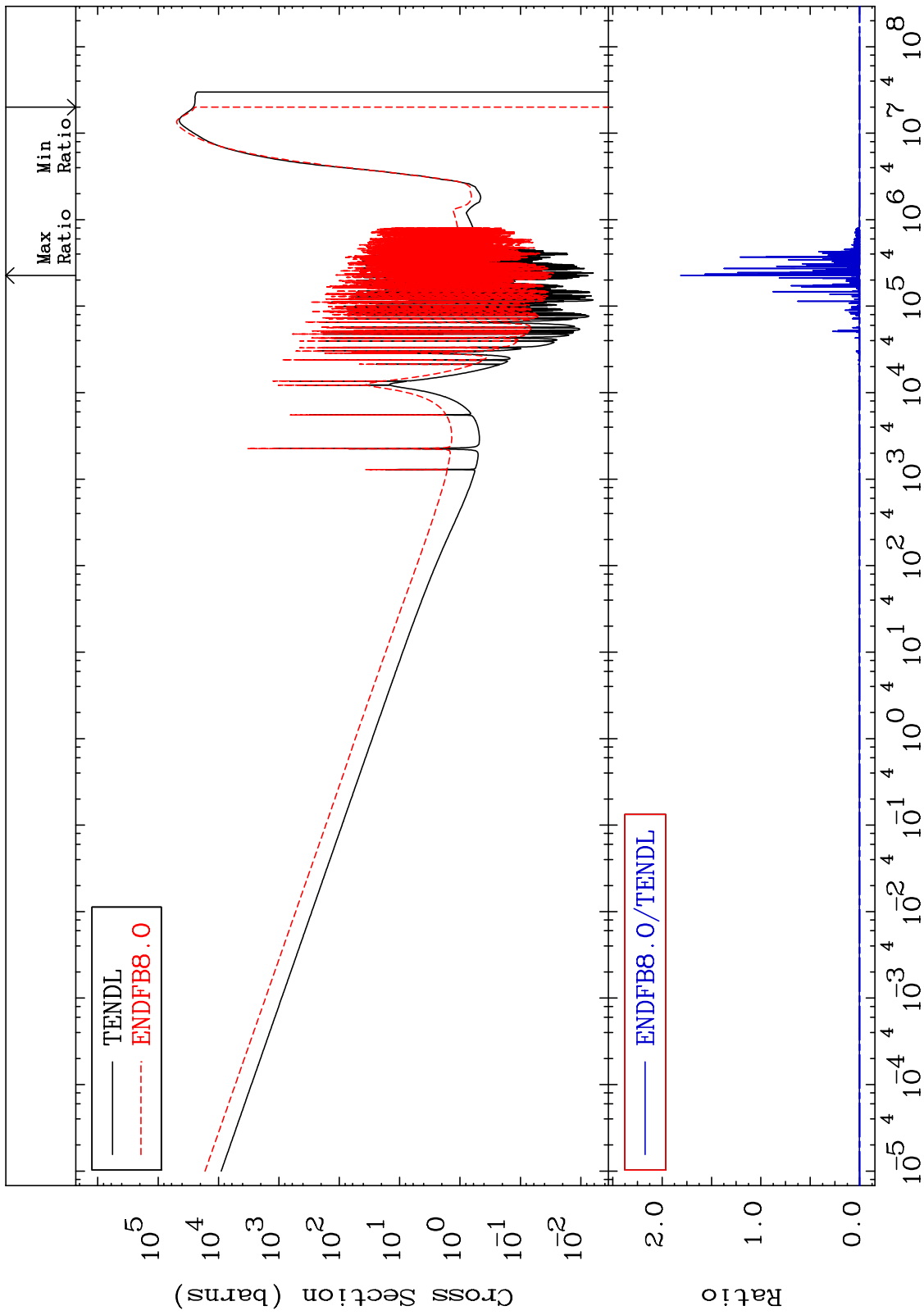
28-Ni-60
-100.0 To 69.06 %



MAT 2831

Dpa disappearance (mt102 -120)
Cross Section

28-Ni-60
-100.0 To 9999. %



60

Incident Energy (eV)

28-Ni-60