

Program Complot
(Version 2018-1)

by

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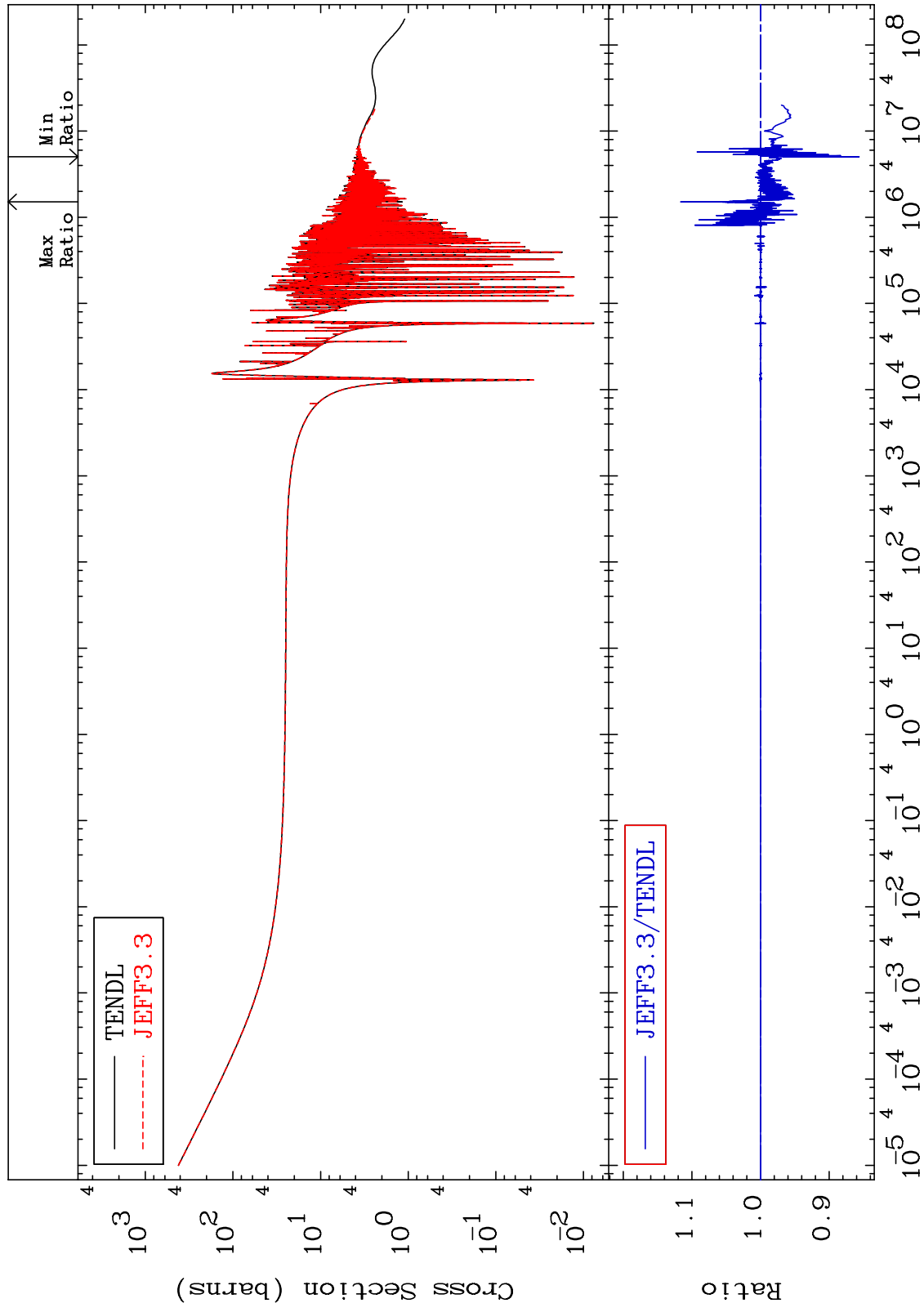
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 2825

Total
Cross Section

28-Ni-58
-14.35 To 11.62 %



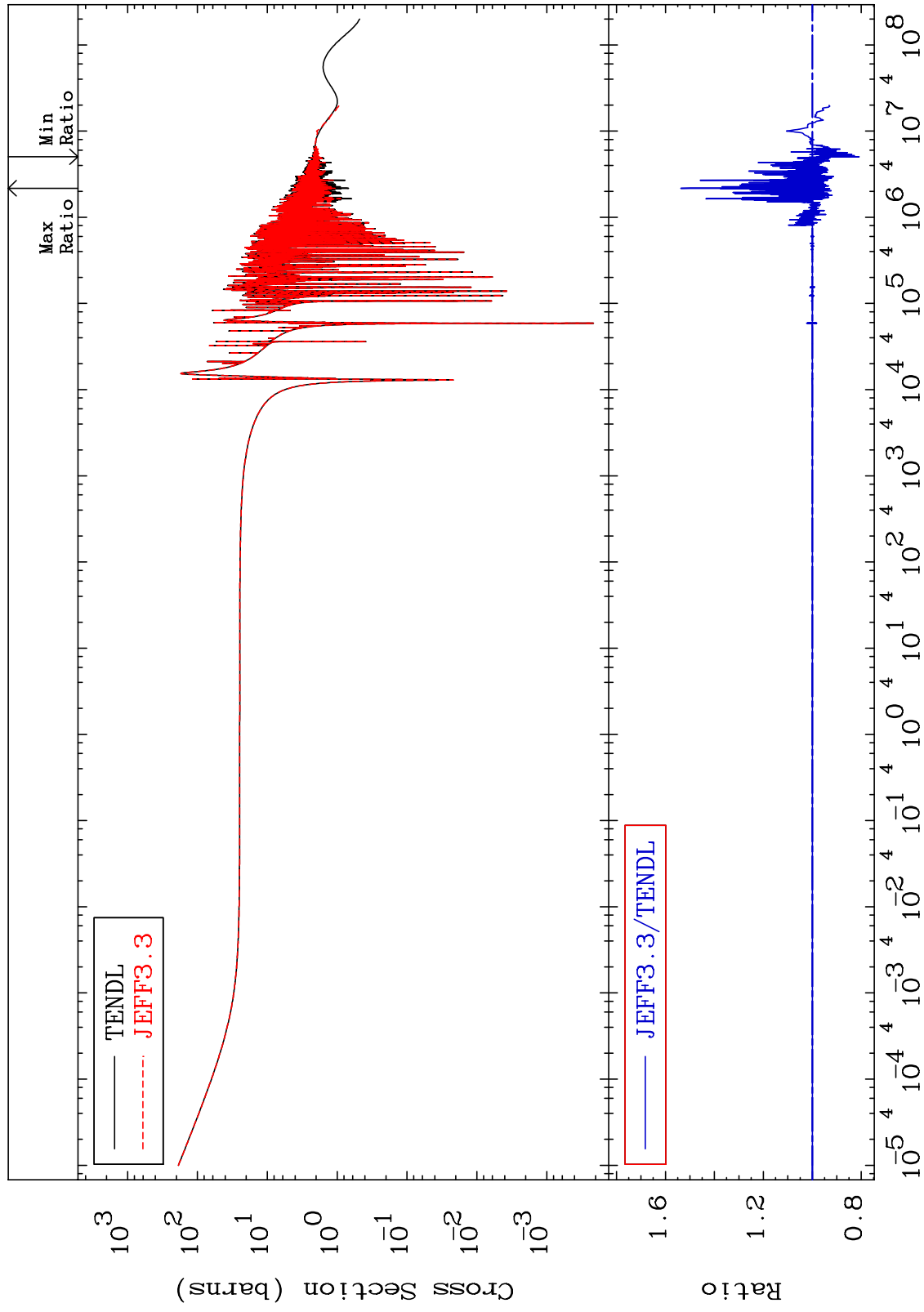
Incident Energy (eV)

28-Ni-58

MAT 2825

Elastic
Cross Section

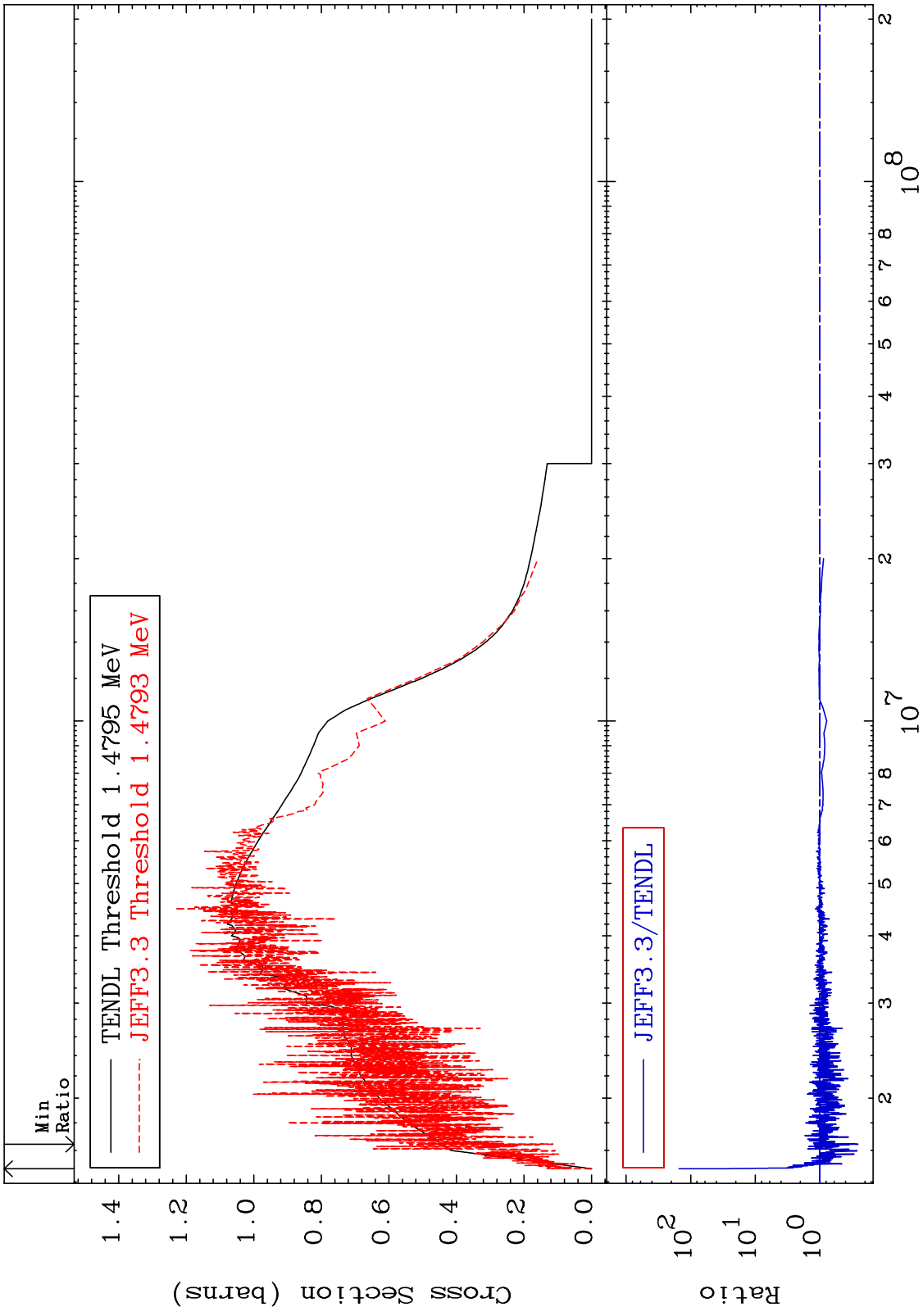
28-Ni-58
-19.09 To 53.70 %



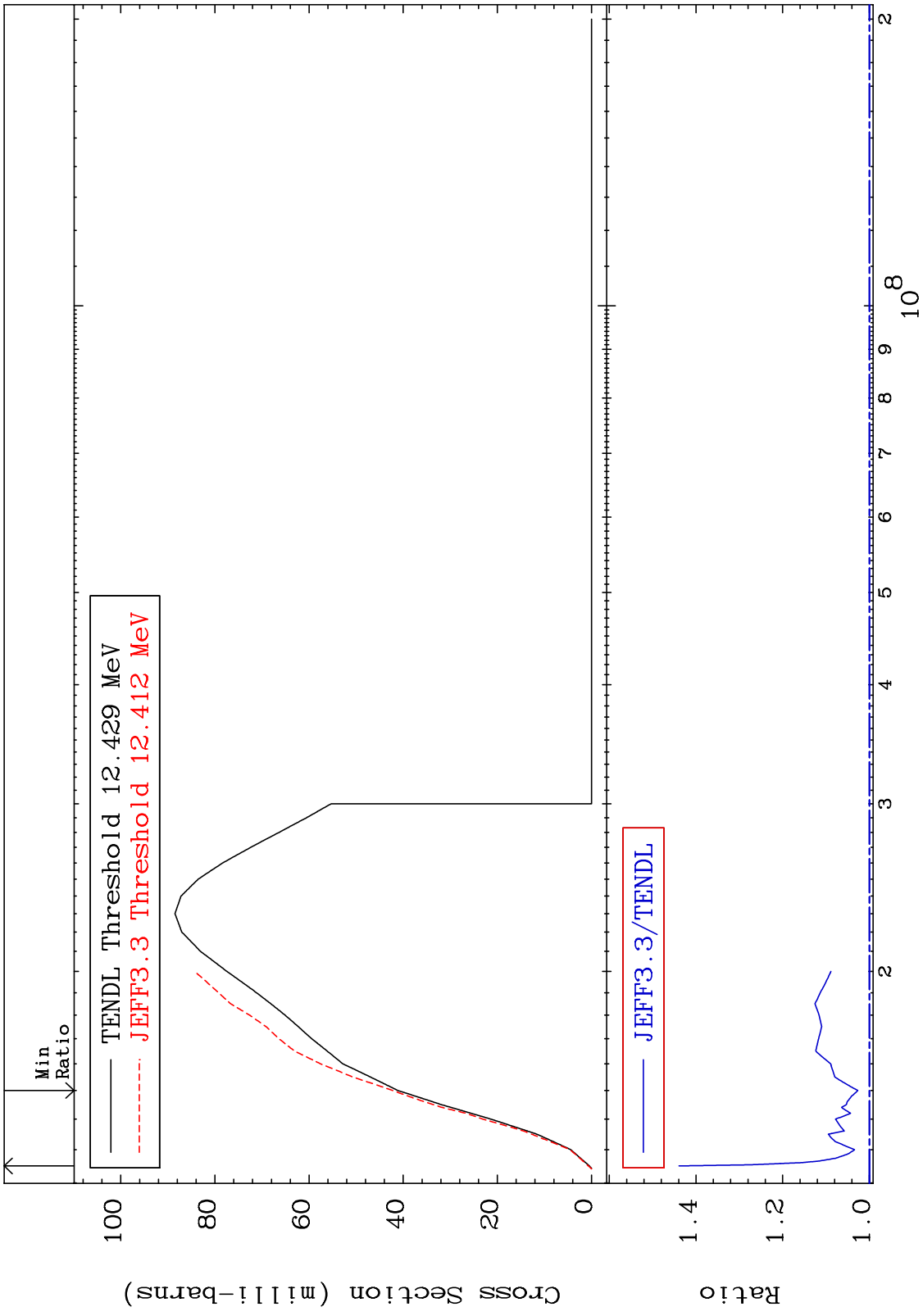
2

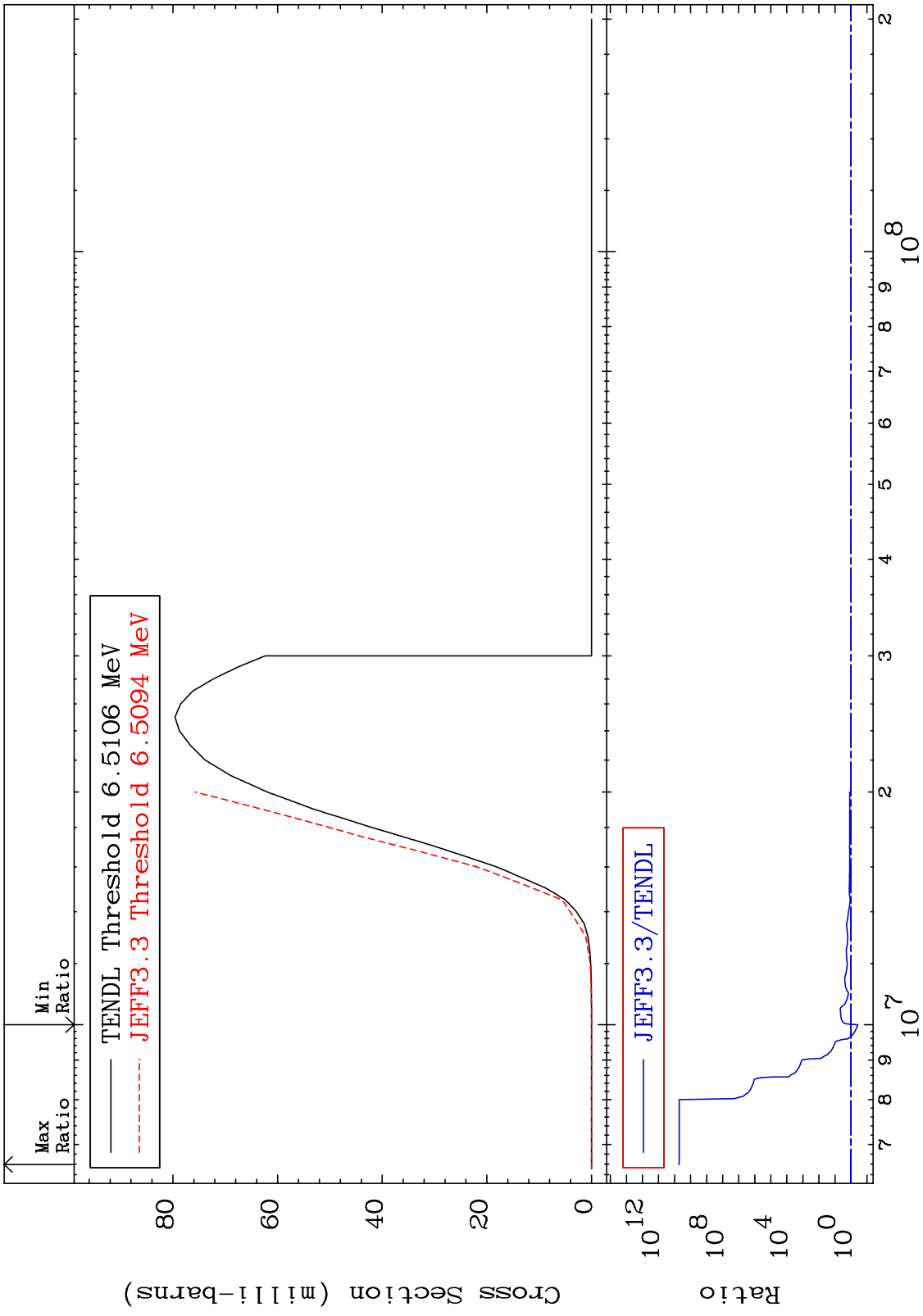
Incident Energy (eV)

28-Ni-58



MAT 2825 (n,2n) Cross Section 28-Ni-58 To 43.91 % 2.650

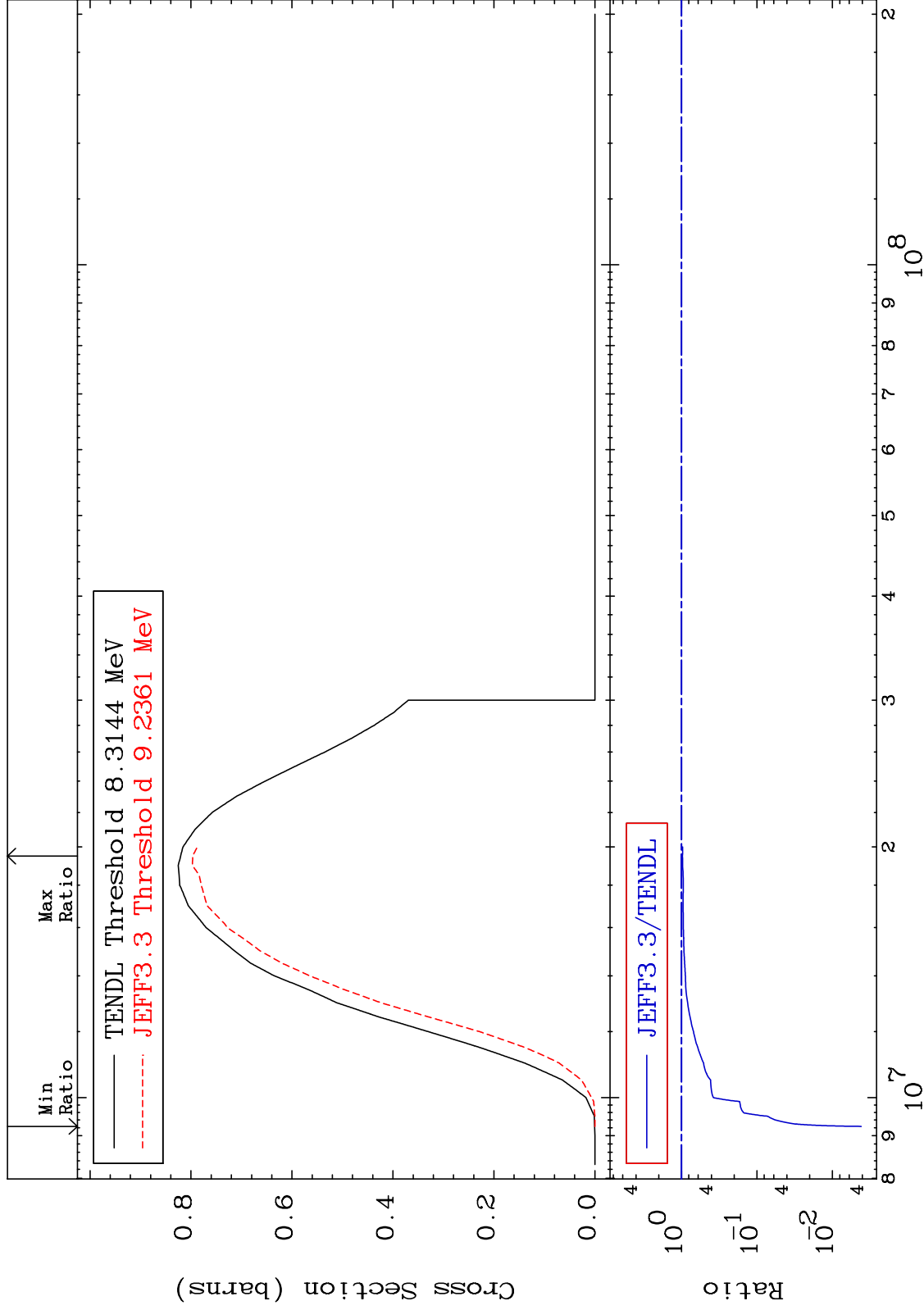




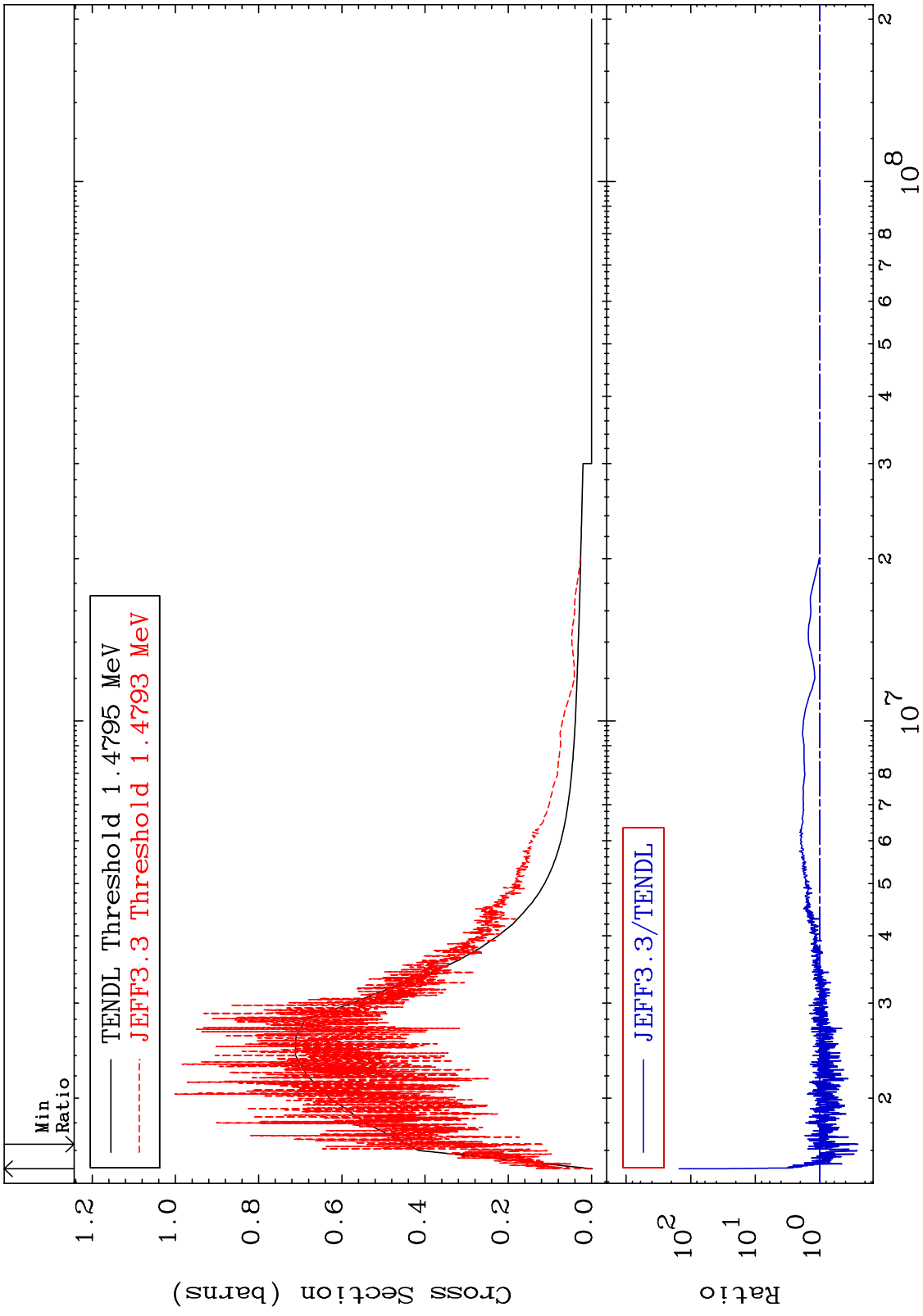
MAT 2825

(n,n') p
Cross Section

28-Ni-58
-99.59 To -2.909%

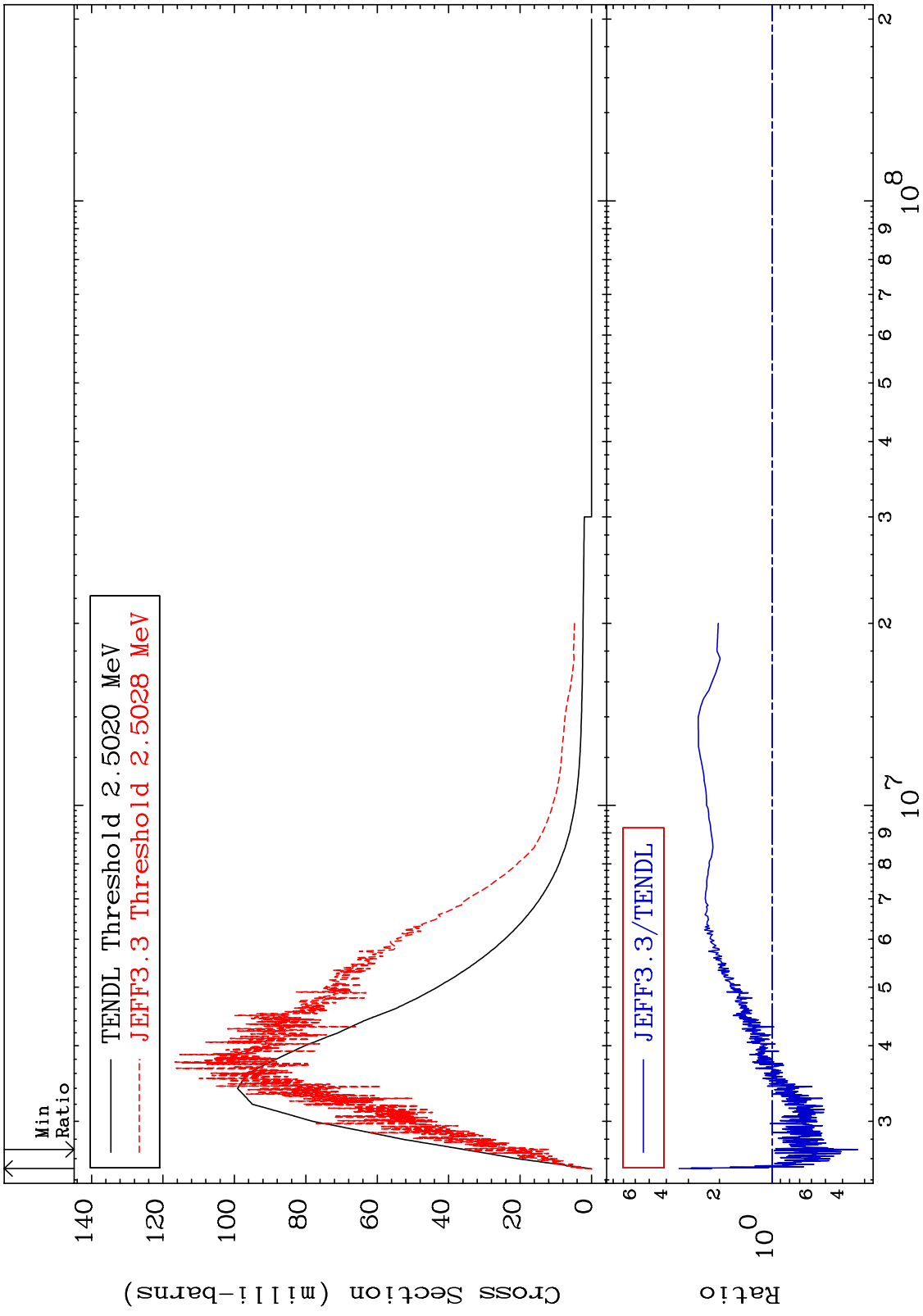


MAT 2825 MT= 51 (n,n') Level Cross Section -74.22 To 9999. % 28-Ni-58

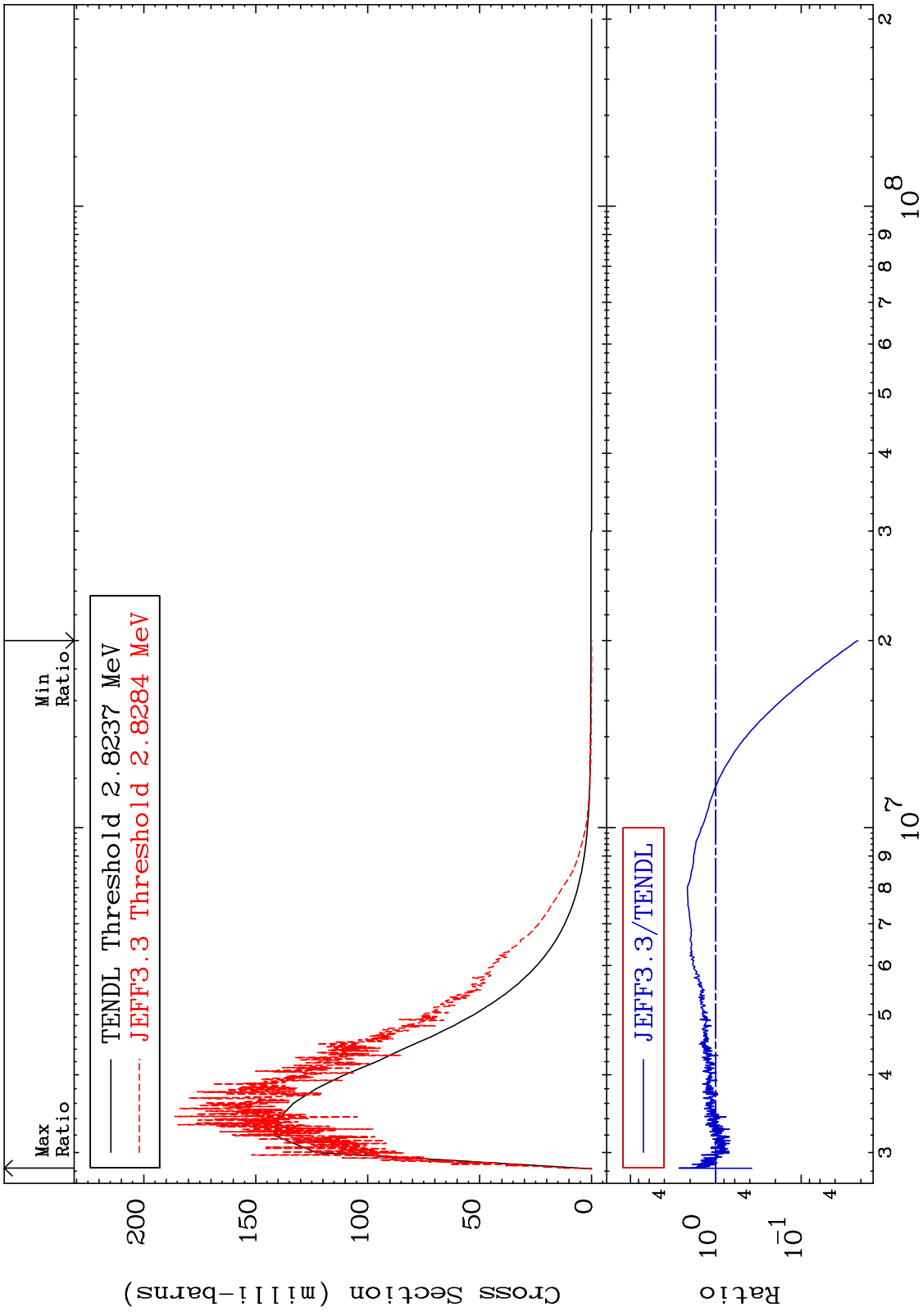


7 Incident Energy (eV) 28-Ni-58

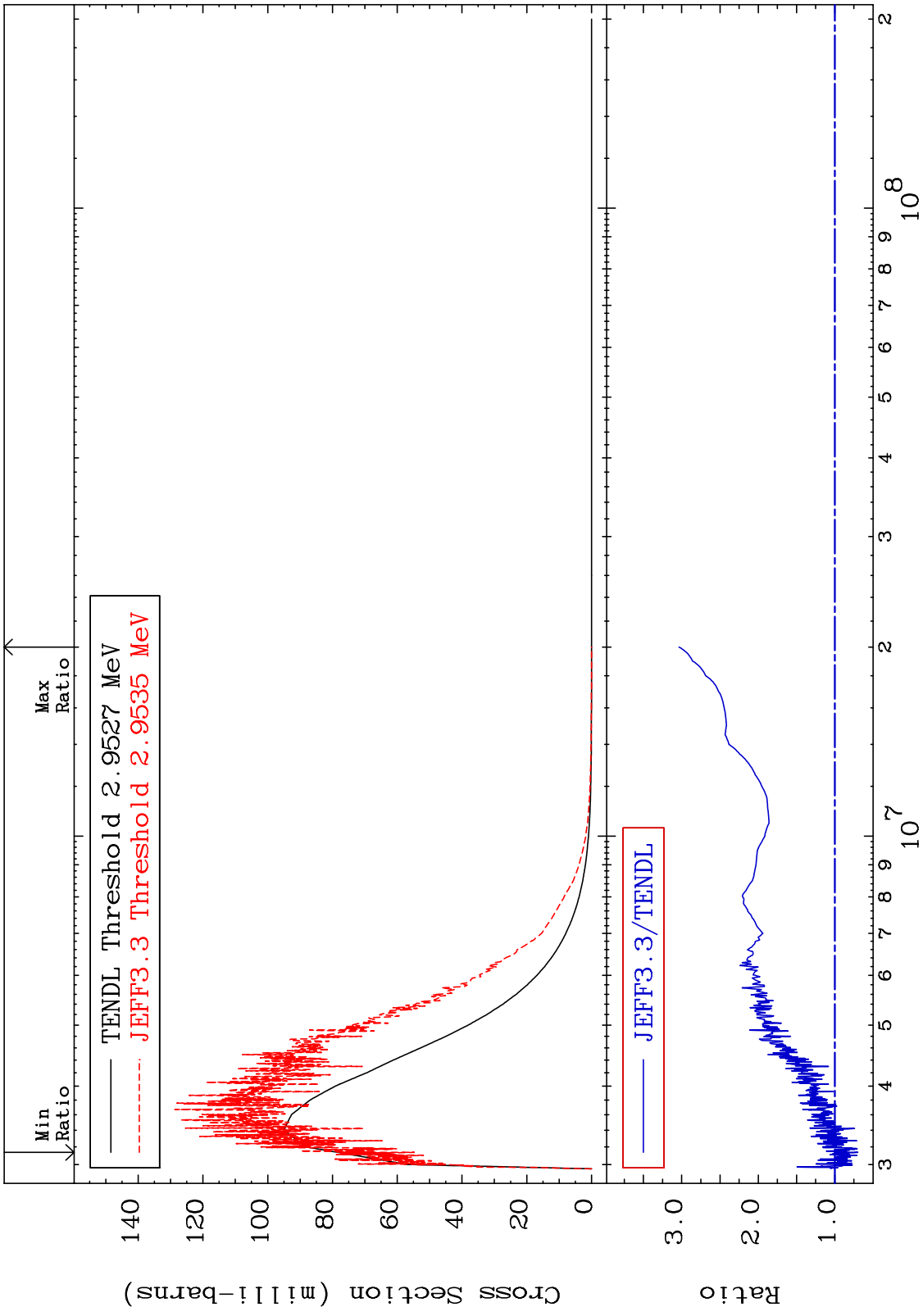
MAT 2825 MT= 52 (n,n') Level Cross Section -67.24 To 238.7 % 28-Ni-58



MAT 2825 MT= 53 (n,n') Level Cross Section 28-Ni-58 -97.83 To 169.0 %

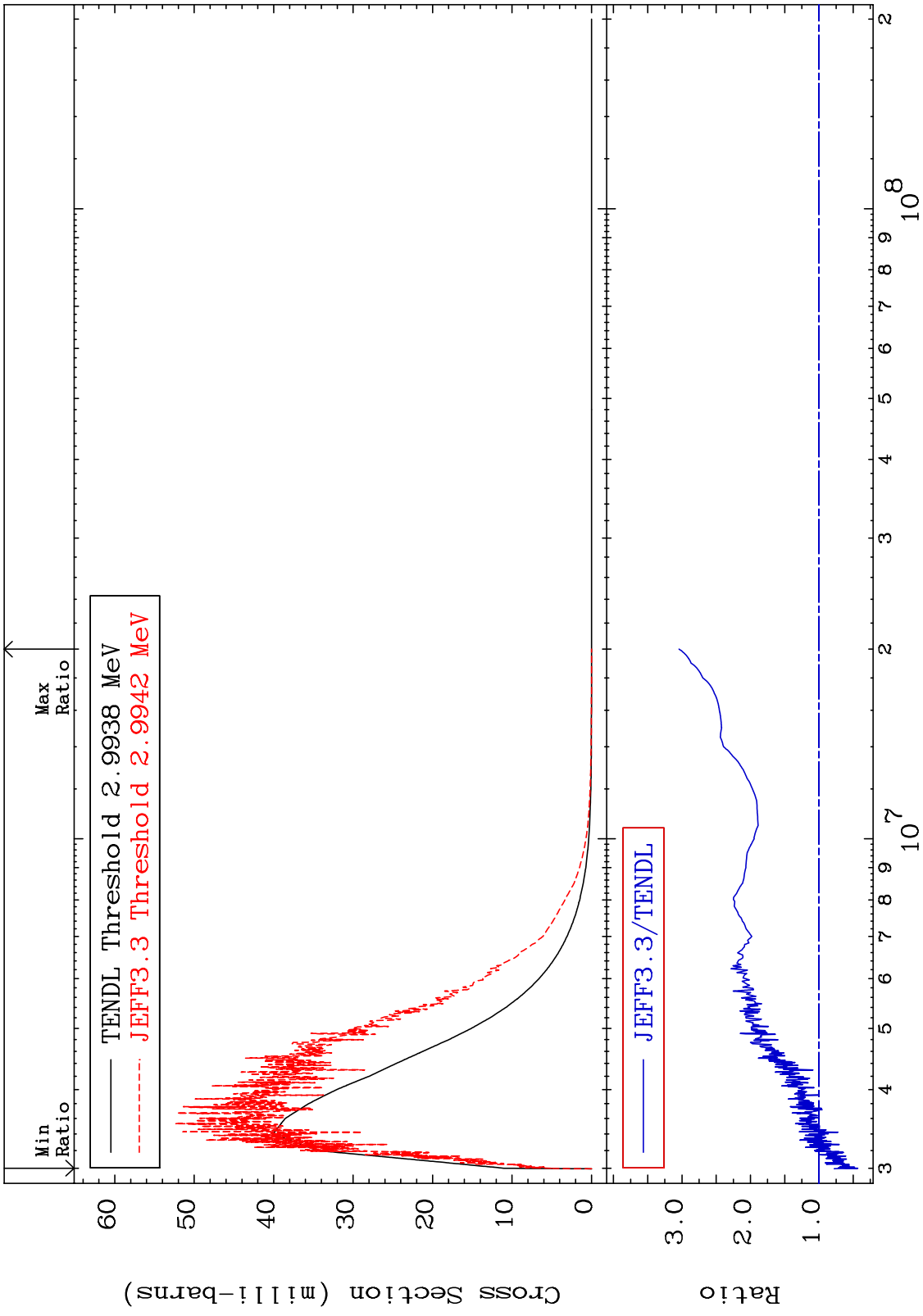


MAT 2825 MT= 54 (n,n') Level Cross Section -30.08 To 203.5 % 28-Ni-58



10 Incident Energy (eV) 28-Ni-58

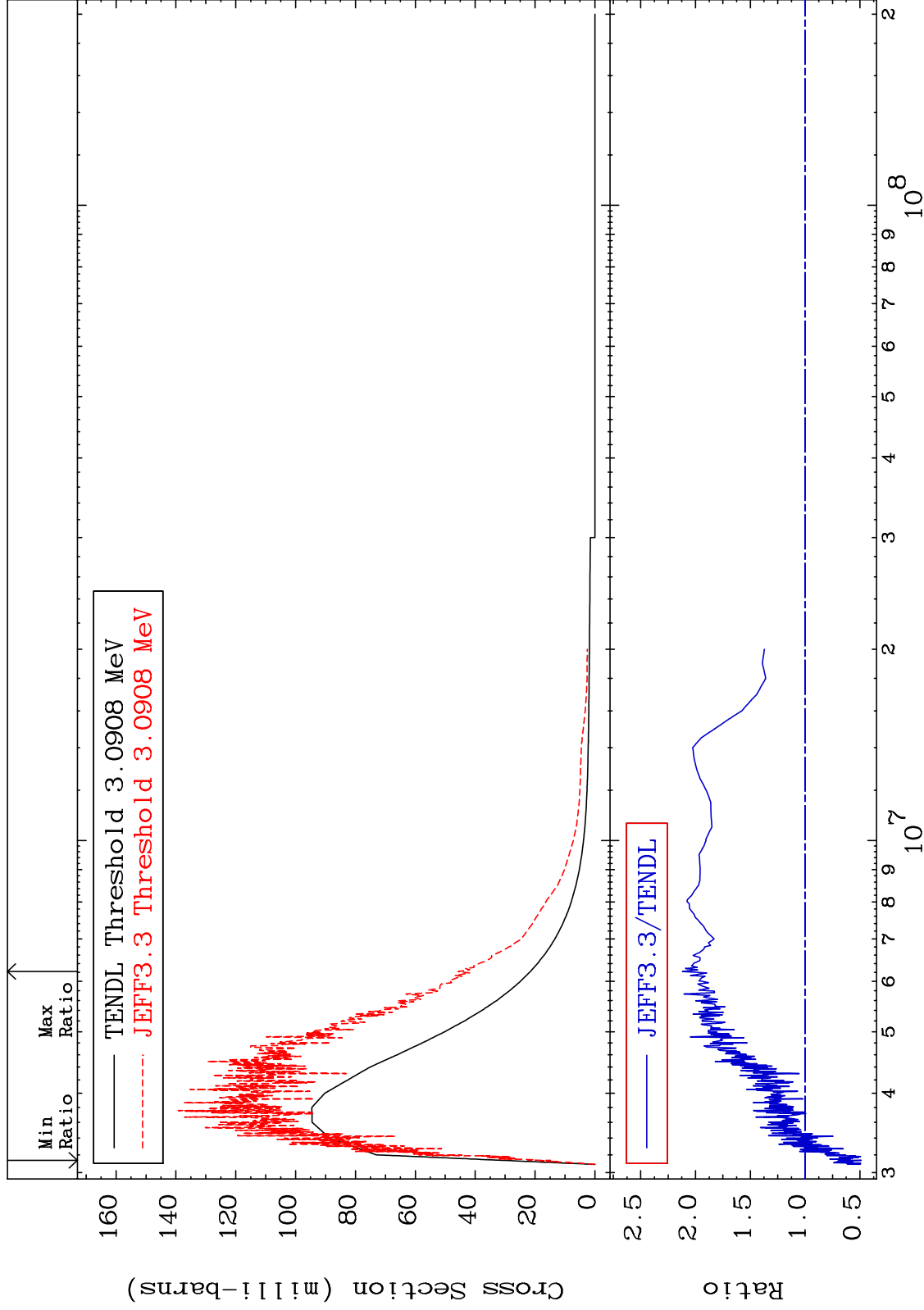
MAT 2825 MT= 55 (n,n') Level Cross Section -56.73 To 204.2 % 28-Ni-58



MAT 2825

MT= 56 (n,n') Level
Cross Section

28-Ni-58
-51.23 To 111.9 %

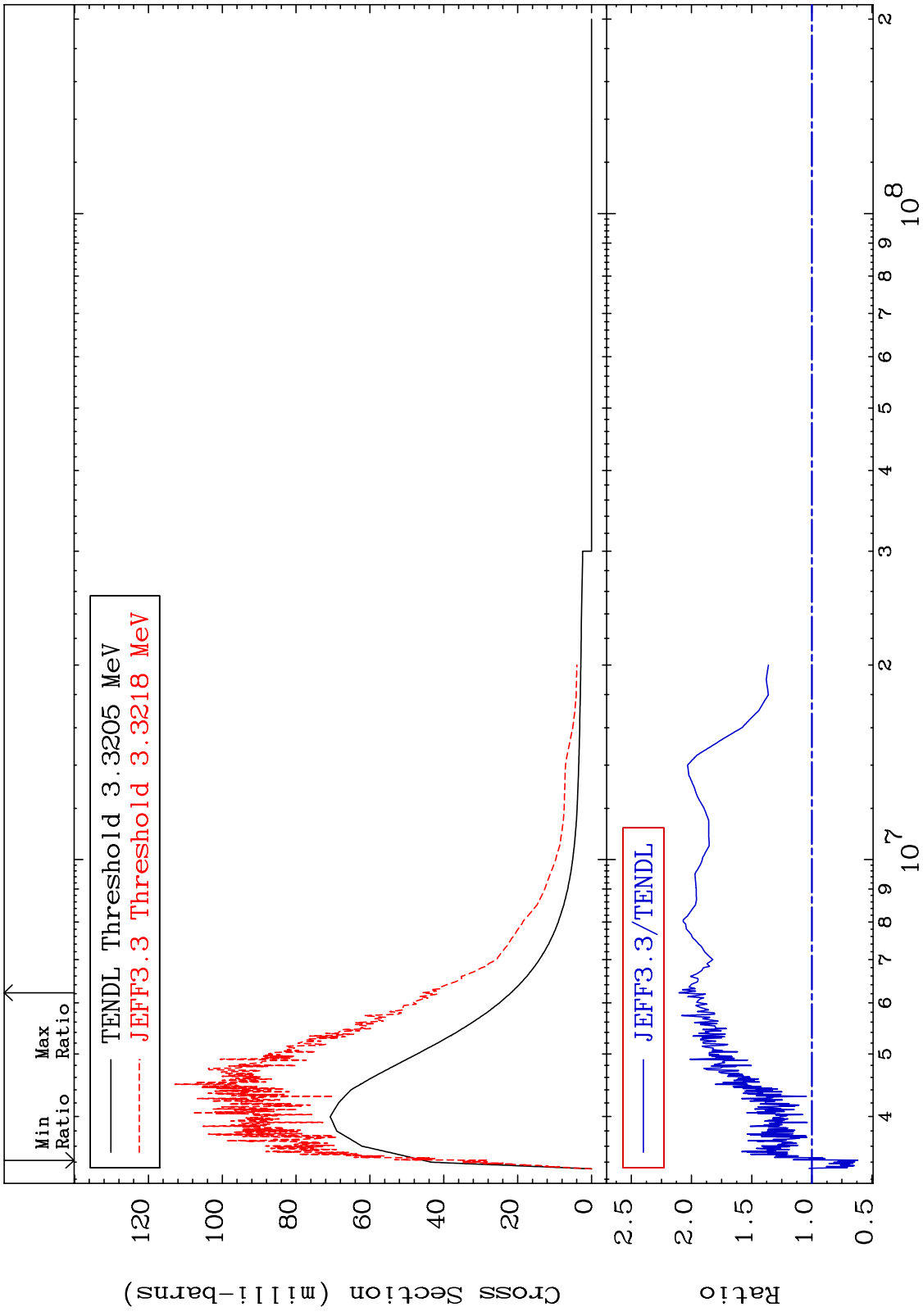


12

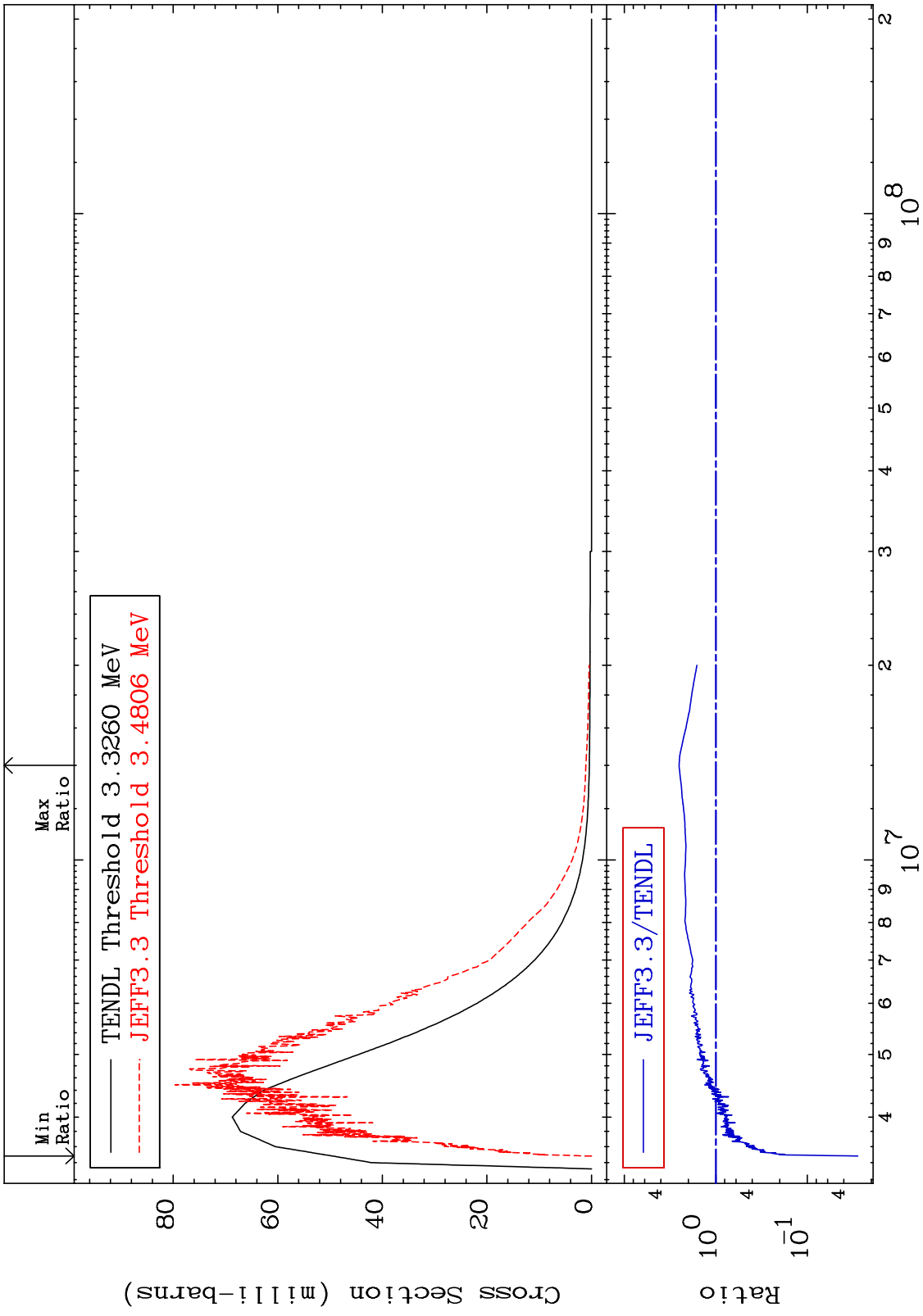
Incident Energy (eV)

28-Ni-58

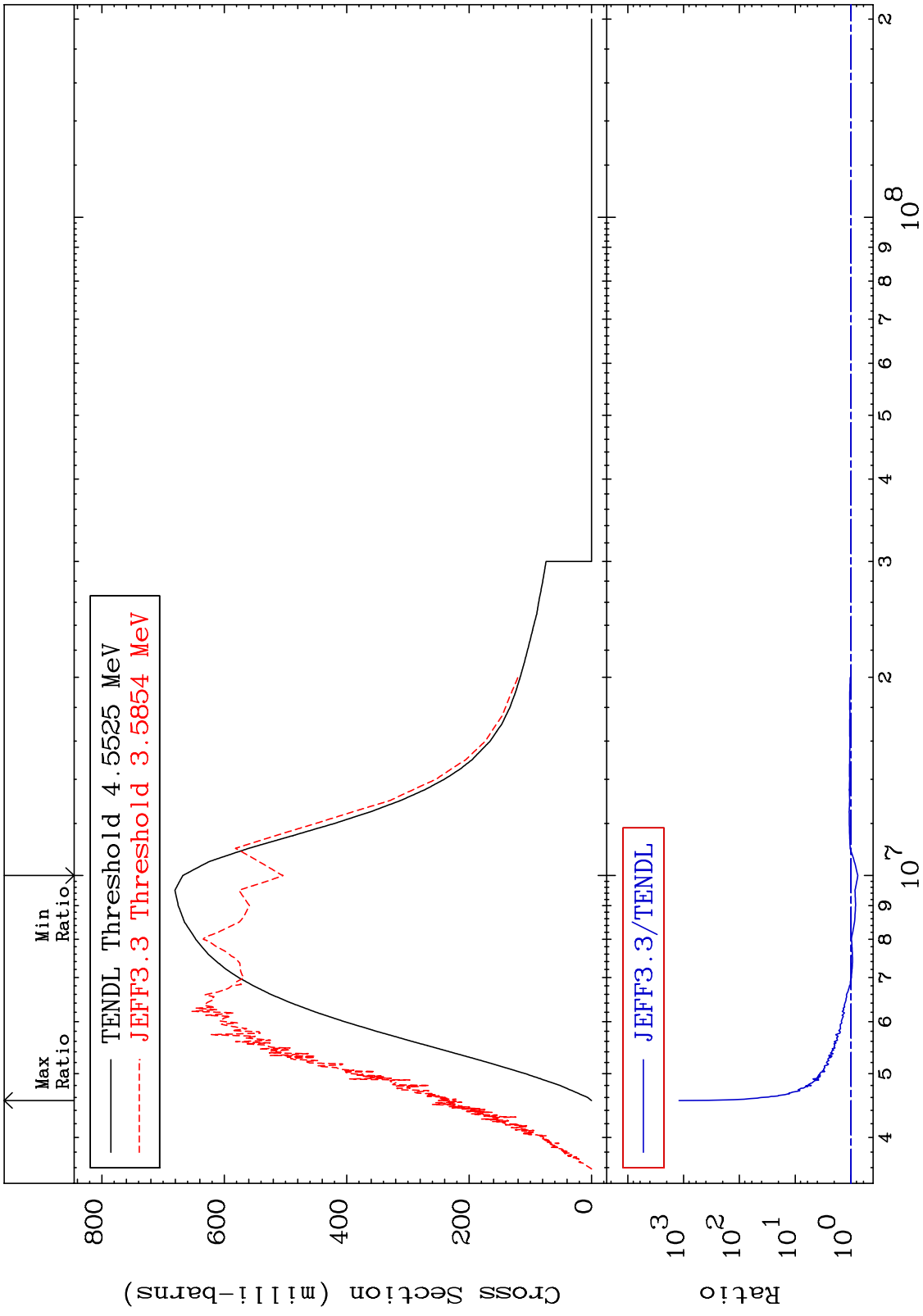
MAT 2825 MT= 57 (n,n') Level Cross Section 28-Ni-58
 -38.22 To 110.3 %



MAT 2825 MT= 58 (n,n') Level Cross Section 28-Ni-58
 -97.19 To 152.3 %



MAT 2825 (n,n') Continuum Cross Section 28-Ni-58 -24.57 To 9999. %



15 28-Ni-58

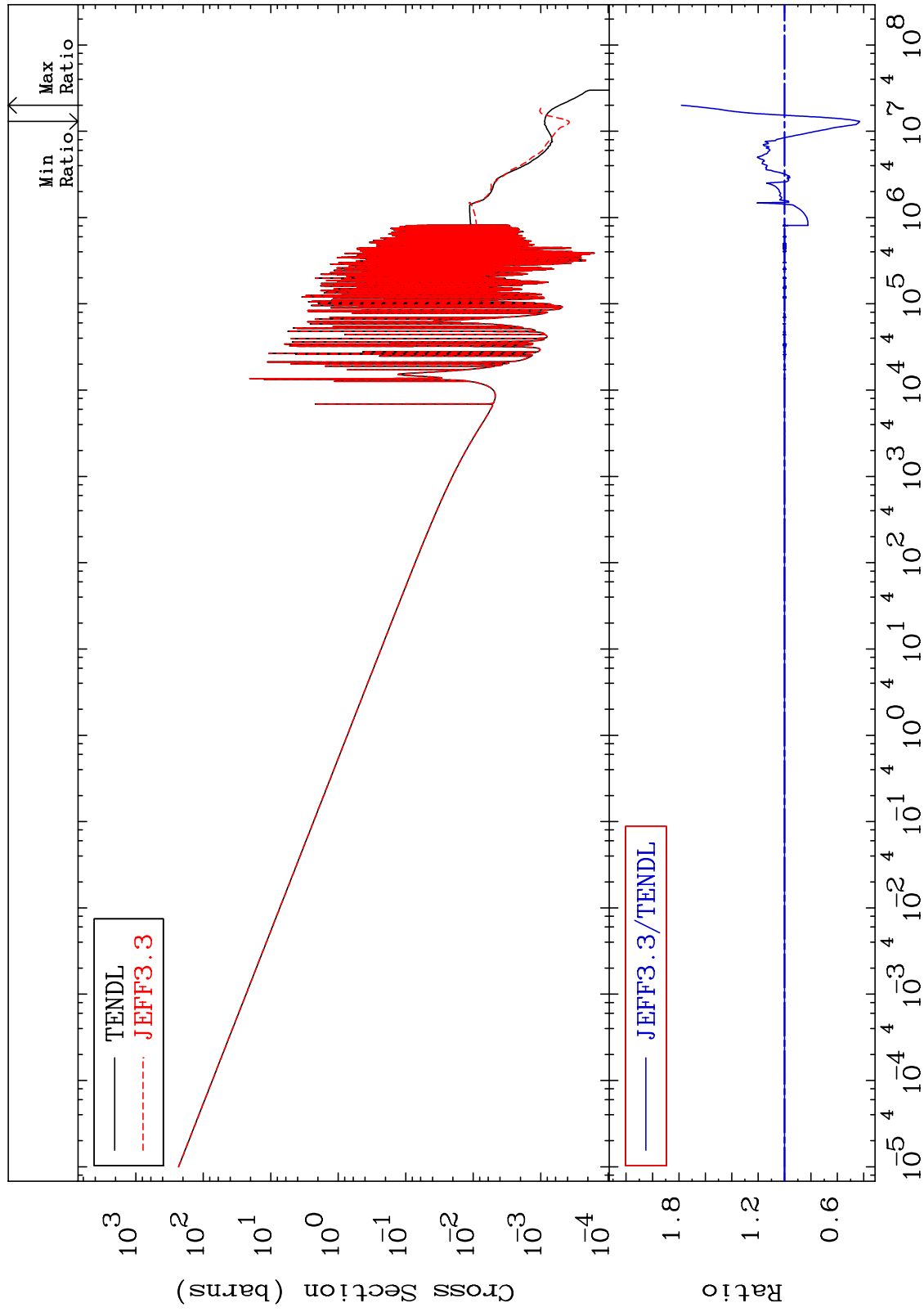
MAT 2825

(n, γ)

28-Ni-58

Cross Section

-57.01 To 78.08 %



16

Incident Energy (eV)

28-Ni-58

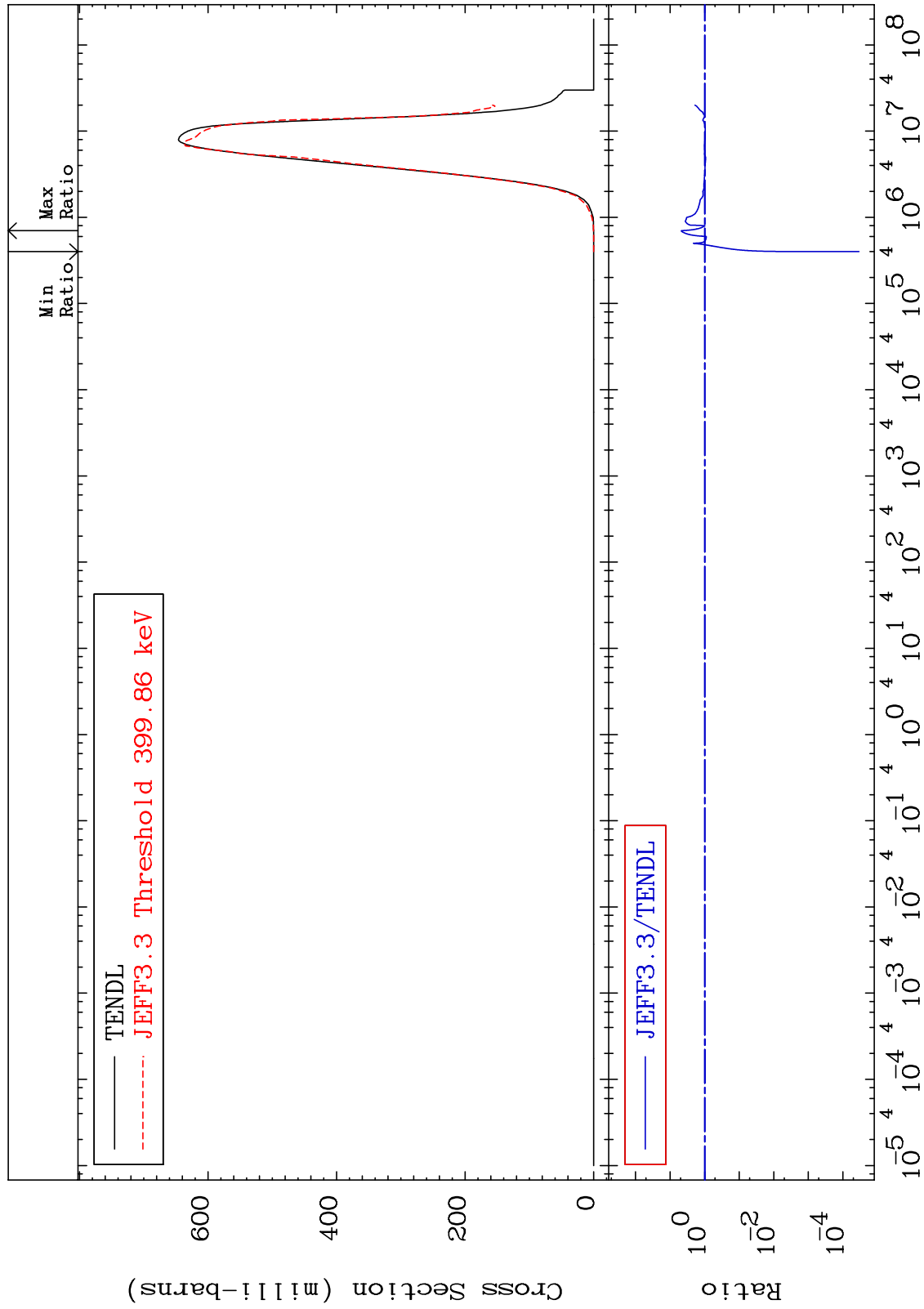
MAT 2825

(n,p)

28-Ni-58

Cross Section

-100.0 To 388.1 %



Min Ratio

Max Ratio

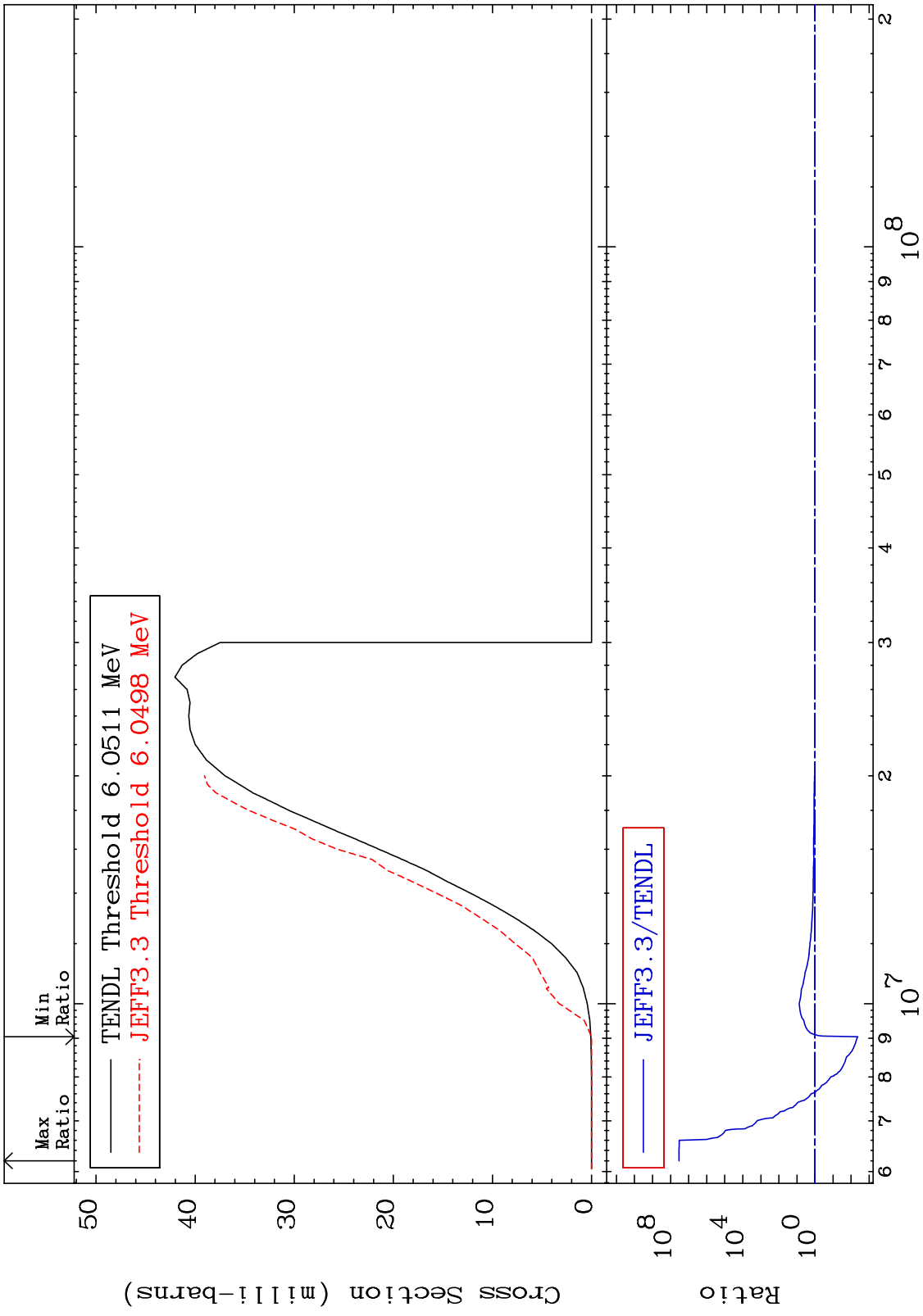
TENDL
JEFF3.3 Threshold 399.86 keV

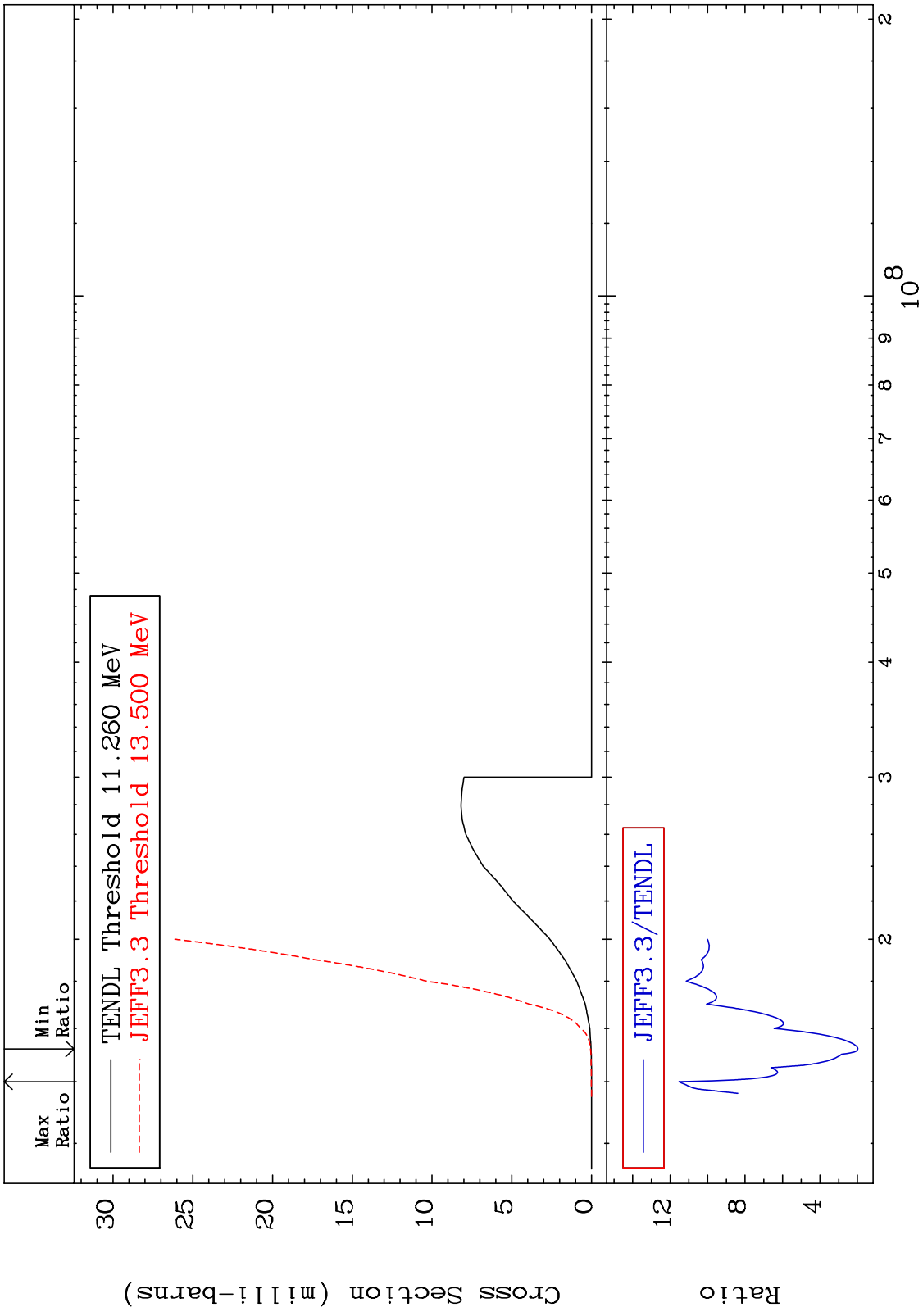
JEFF3.3/TENDL

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Incident Energy (eV)

28-Ni-58





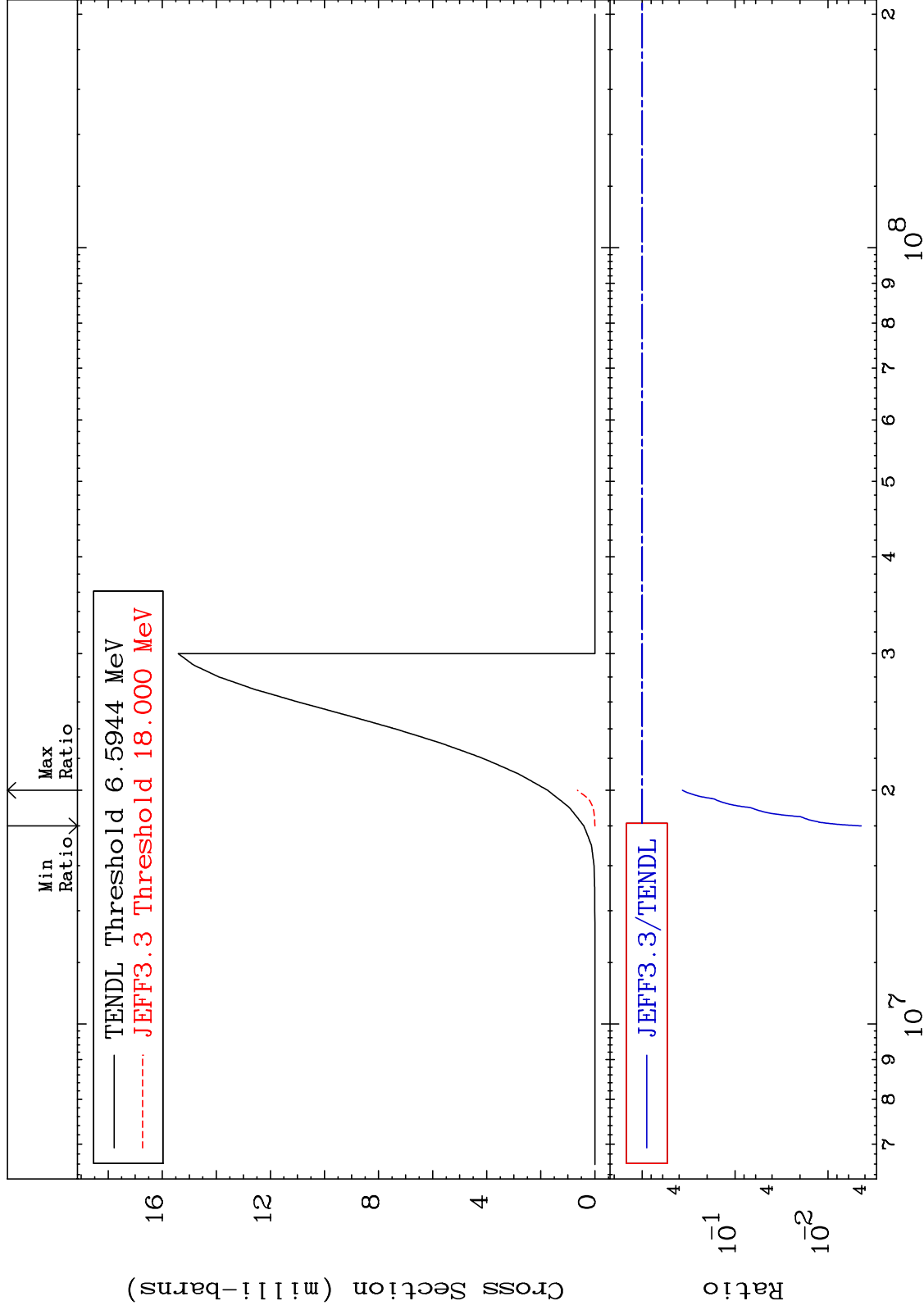
MAT 2825

(n, He-3)

28-Ni-58

Cross Section

-99.56 To -63.20%

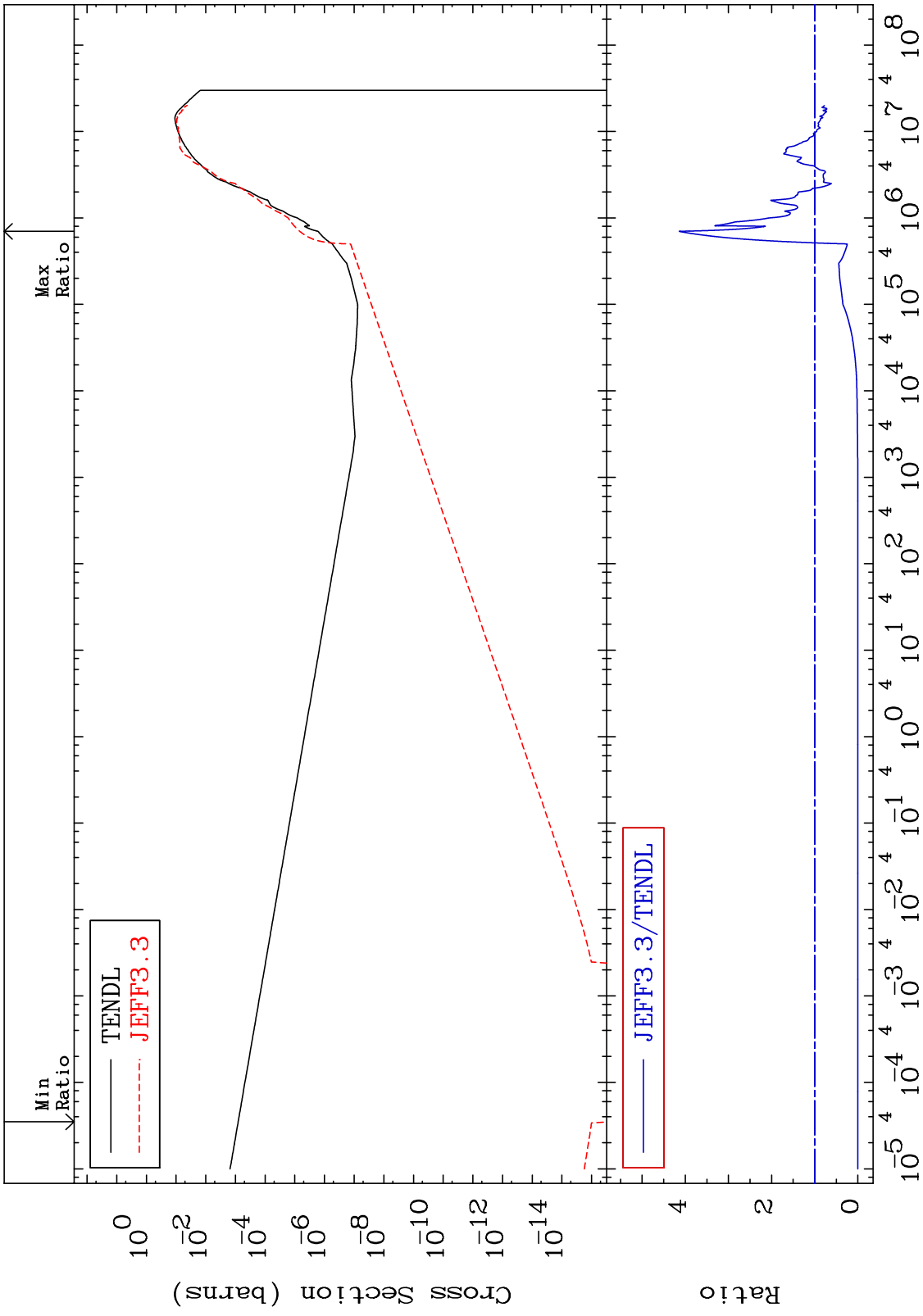


20

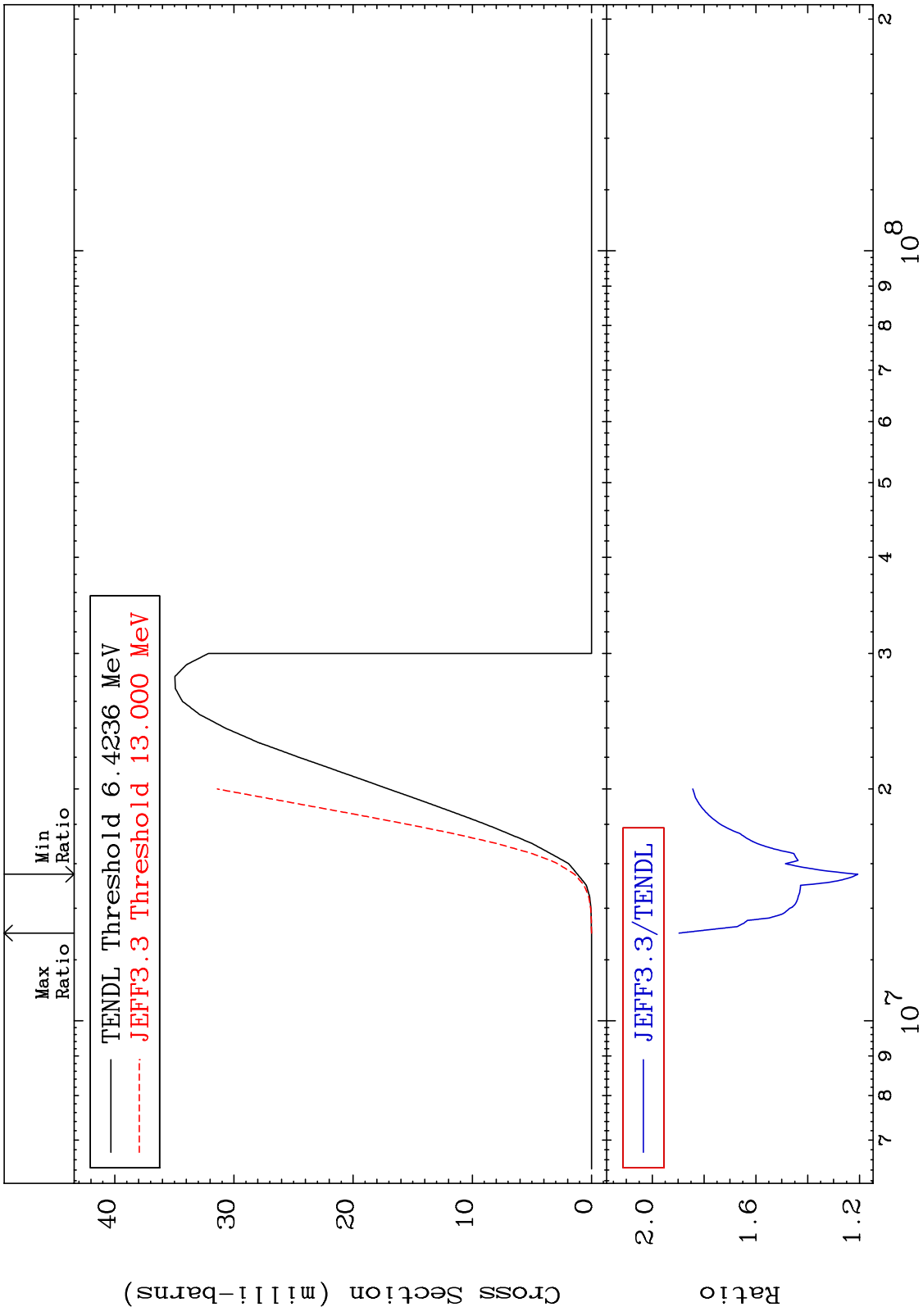
Incident Energy (eV)

28-Ni-58

MAT 2825 (n, α) Cross Section 28-Ni-58 -100.0 To 314.5 %



MAT 2825 (n,p) α 28-Ni-58
 Cross Section 20.65 To 89.64 %

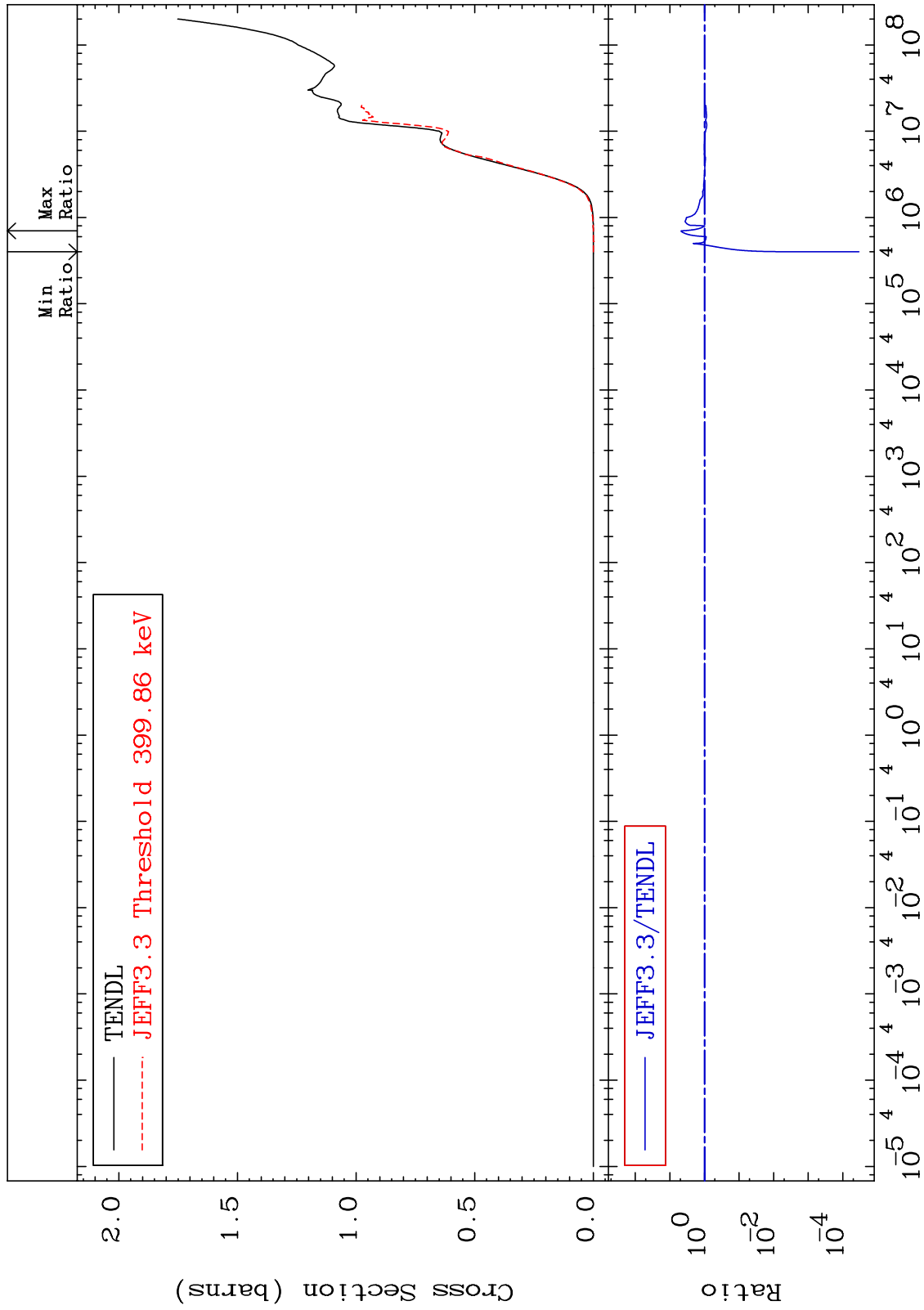


28-Ni-58

MAT 2825

Hydrogen Production Cross Section

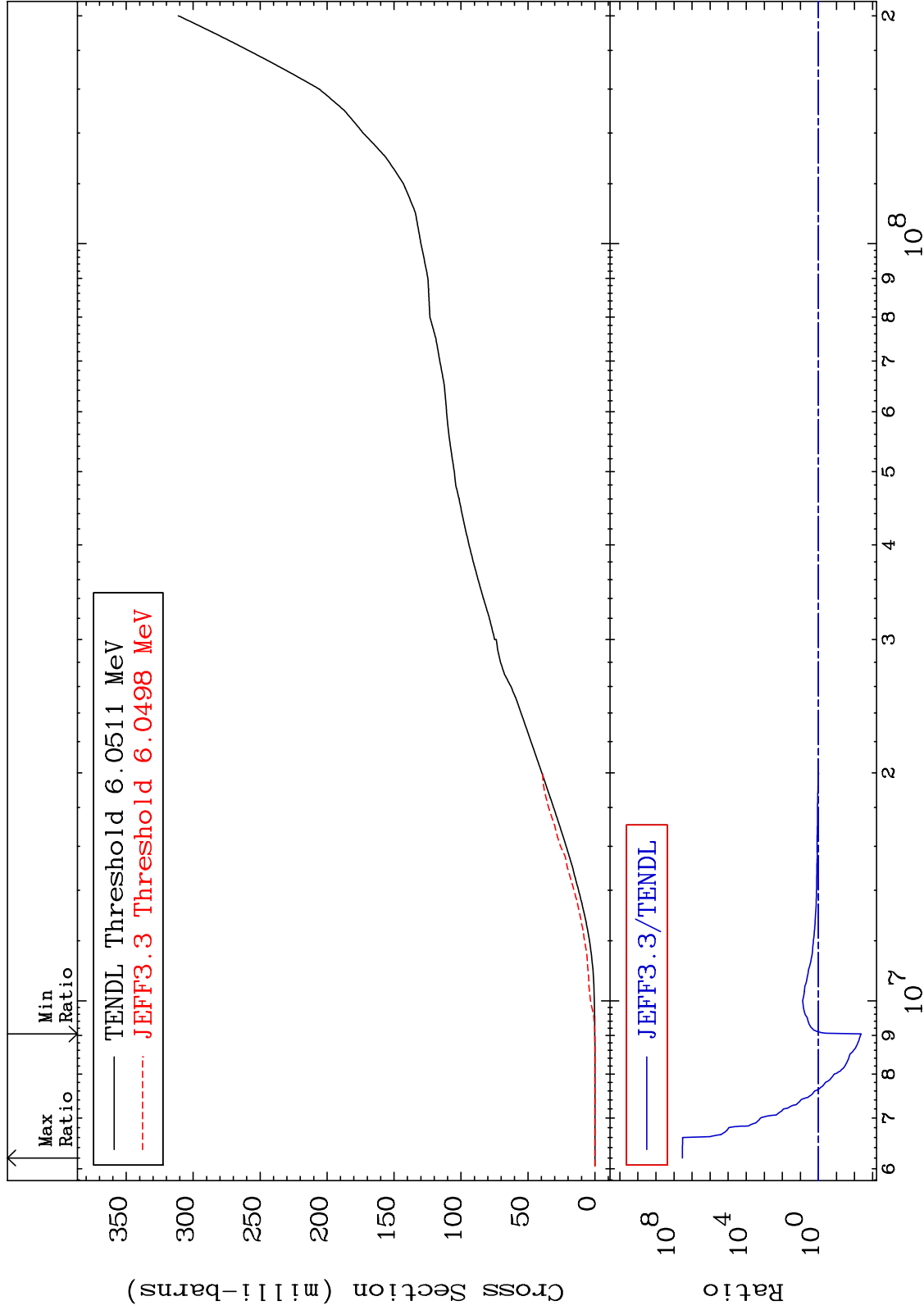
28-Ni-58
-100.0 To 388.1 %



MAT 2825

Deuterium Production
Cross Section

28-Ni-58
-99.58 To 9999. %



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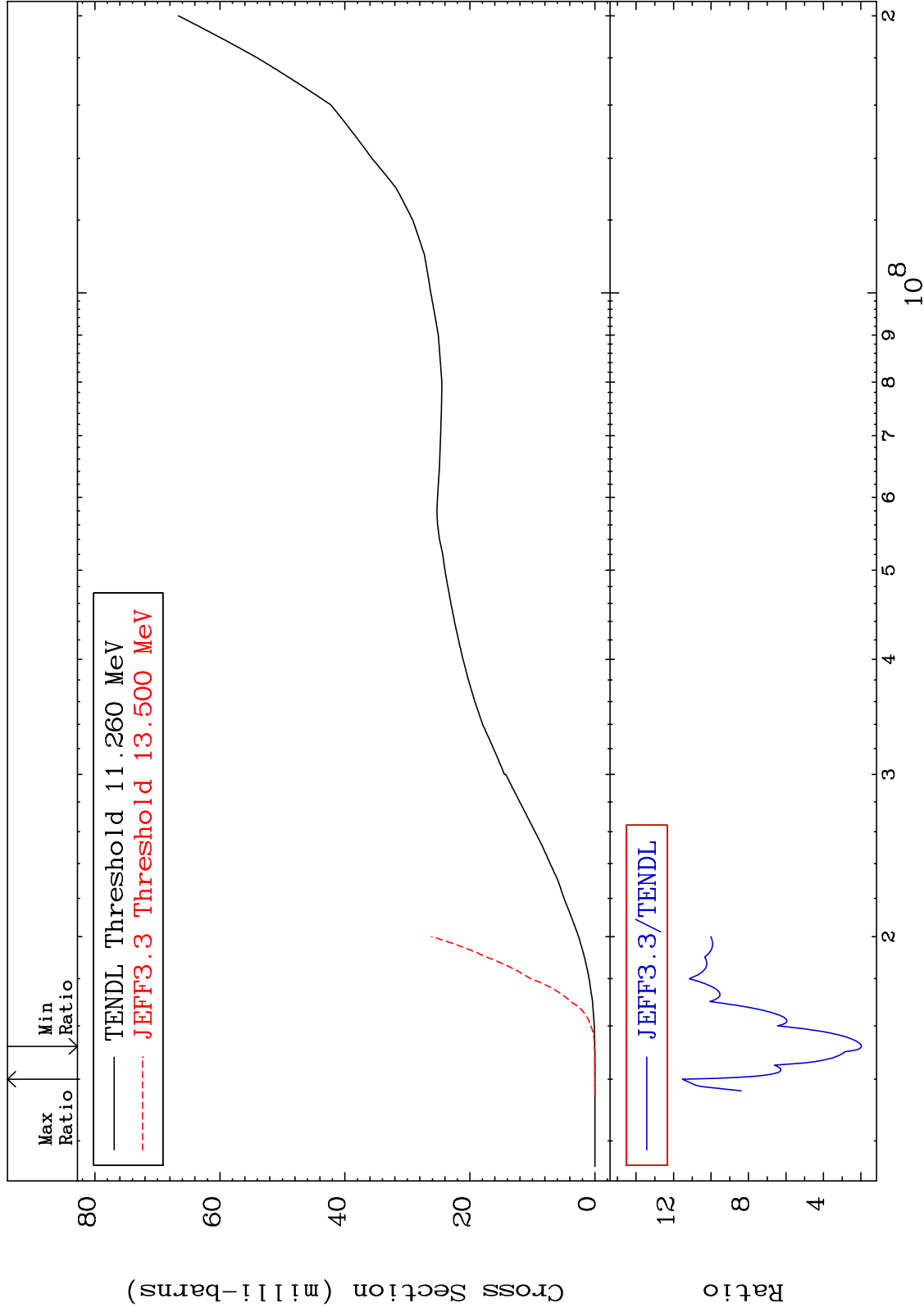
Incident Energy (eV)

28-Ni-58

MAT 2825

Tritium Production
Cross Section

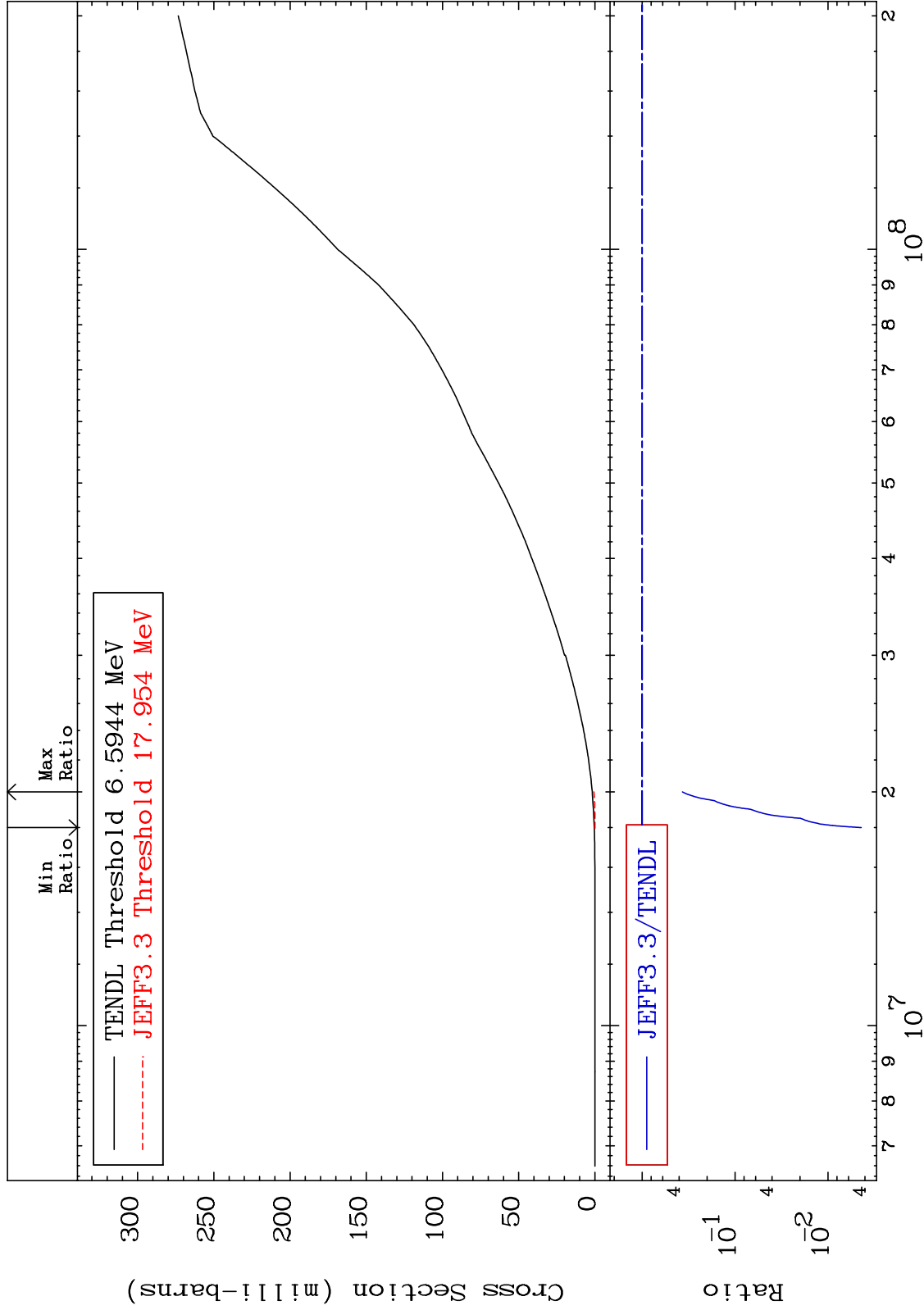
28-Ni-58
97.79 To 1053. %



MAT 2825

He-3 Production
Cross Section

28-Ni-58
-99.56 To -63.20%

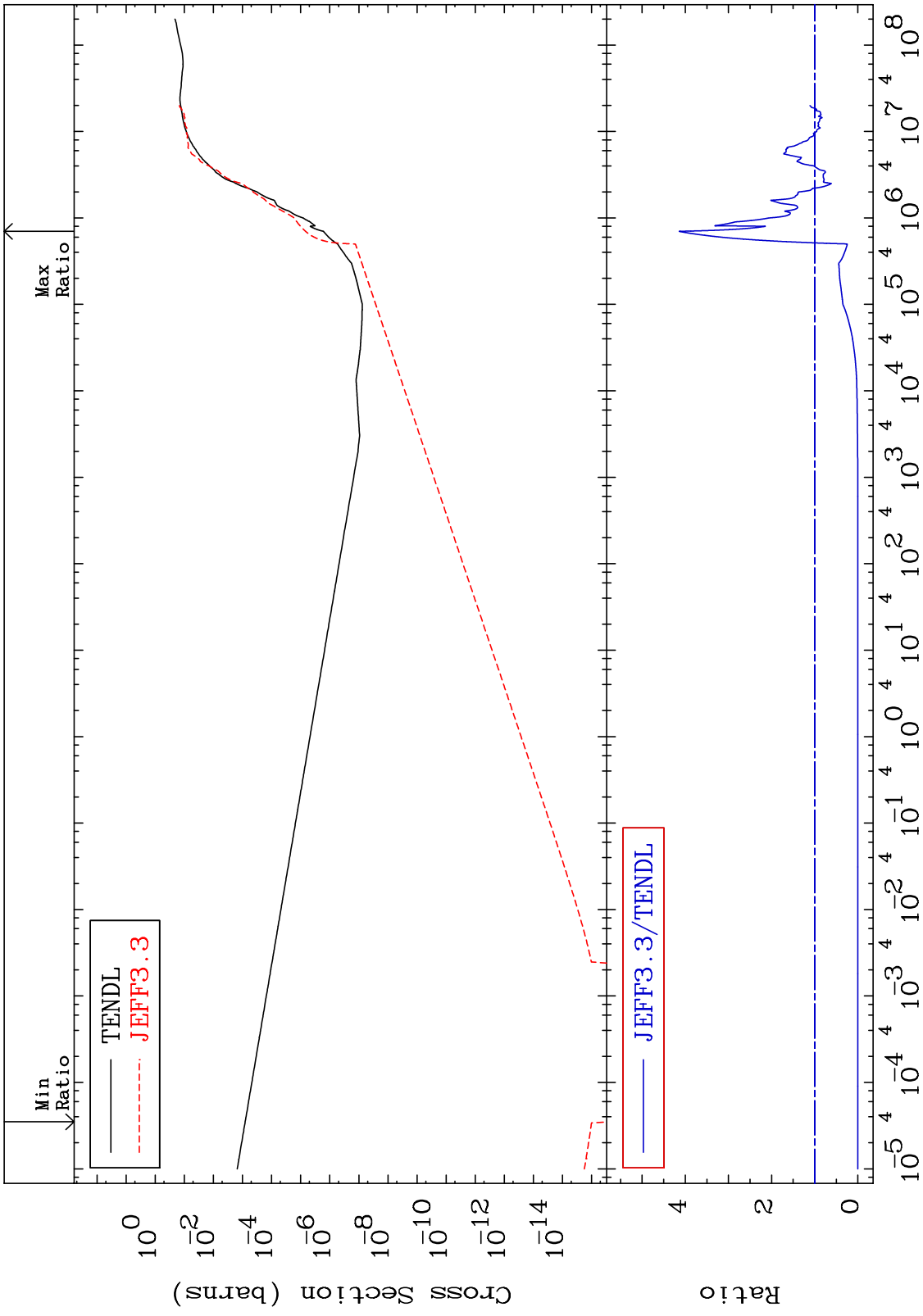


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Incident Energy (eV)

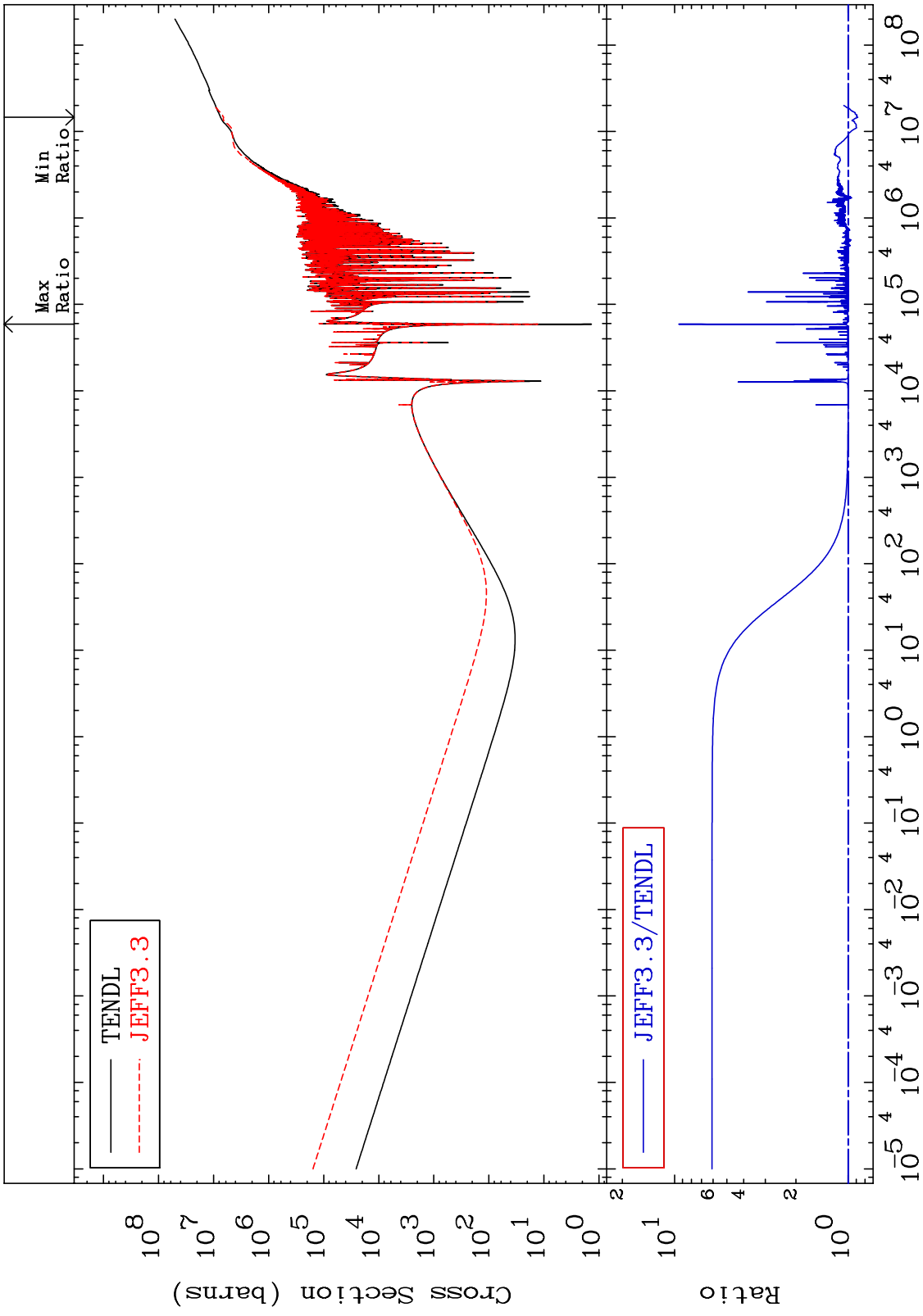
28-Ni-58

MAT 2825 He-4 Production Cross Section 28-Ni-58 -100.0 To 314.5 %



27 28-Ni-58

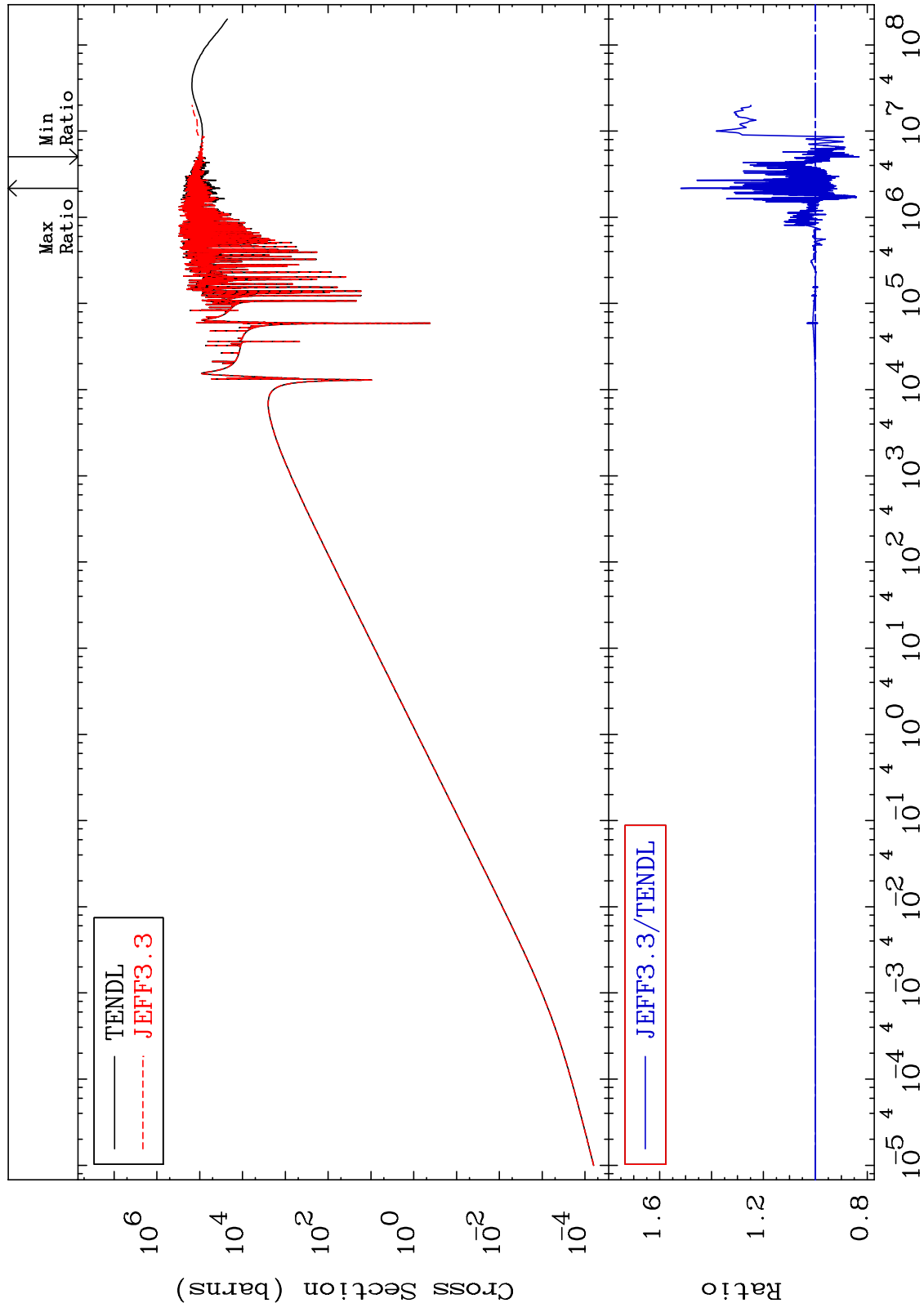
MAT 2825 Kerma total (eV-barns) 28-Ni-58
Cross Section -11.93 To 842.8 %



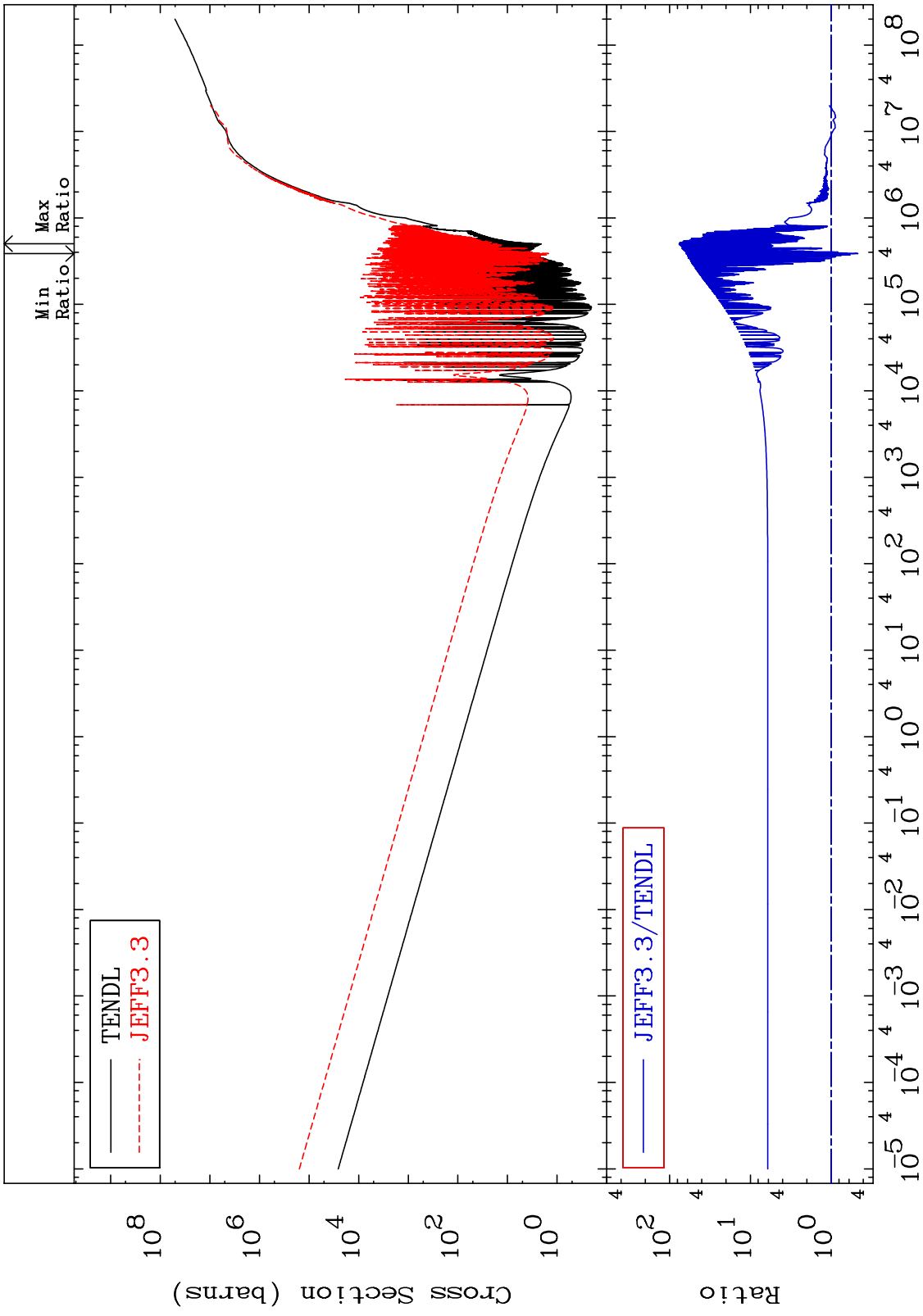
MAT 2825

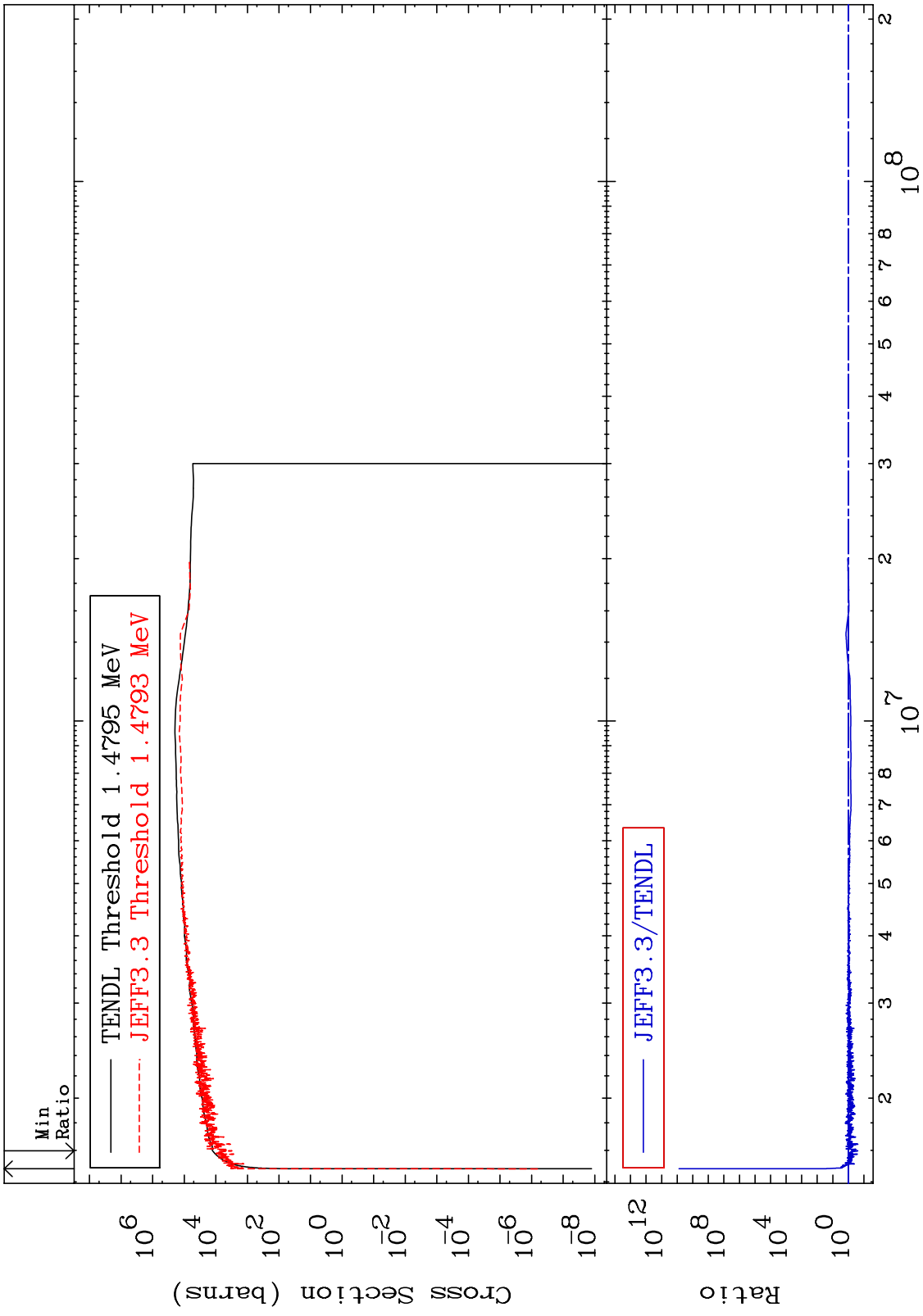
Kerma elastic
Cross Section

28-Ni-58
-16.85 To 51.84 %



MAT 2825 Kerma non-elastic (all but mt2) 28-Ni-58
 Cross Section -53.29 To 7541. %

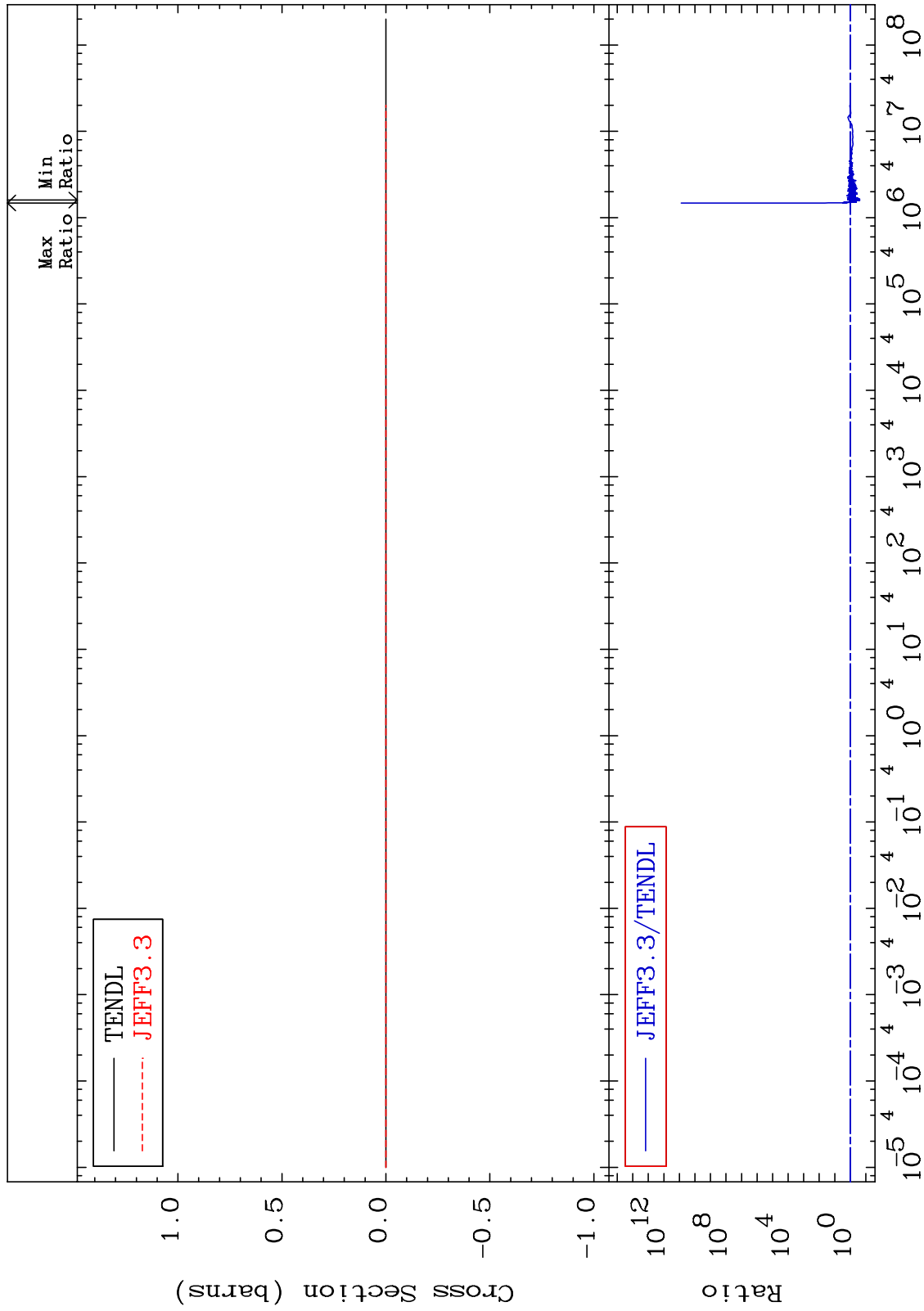




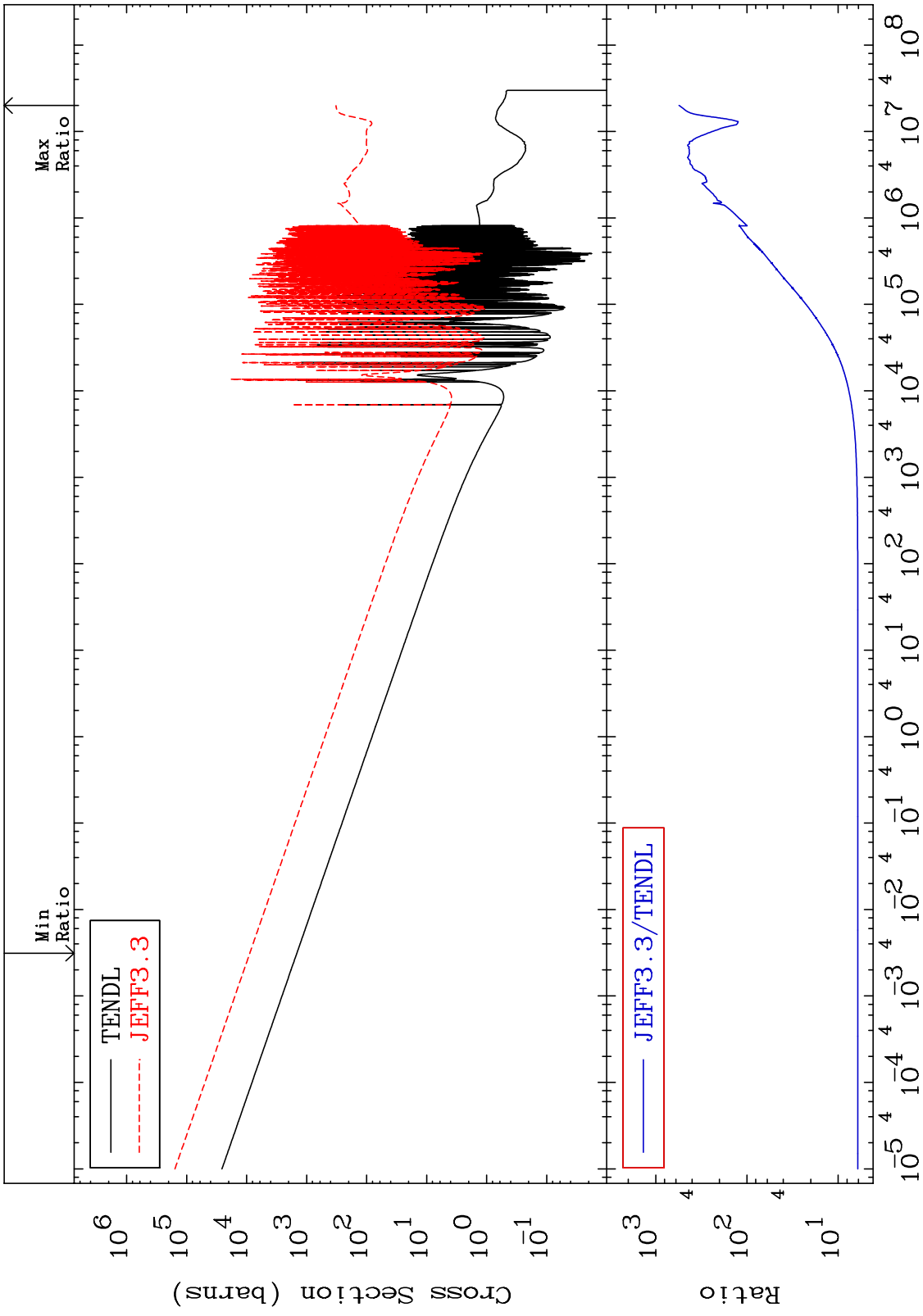
MAT 2825

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

28-Ni-58
-75.41 To 9999. %



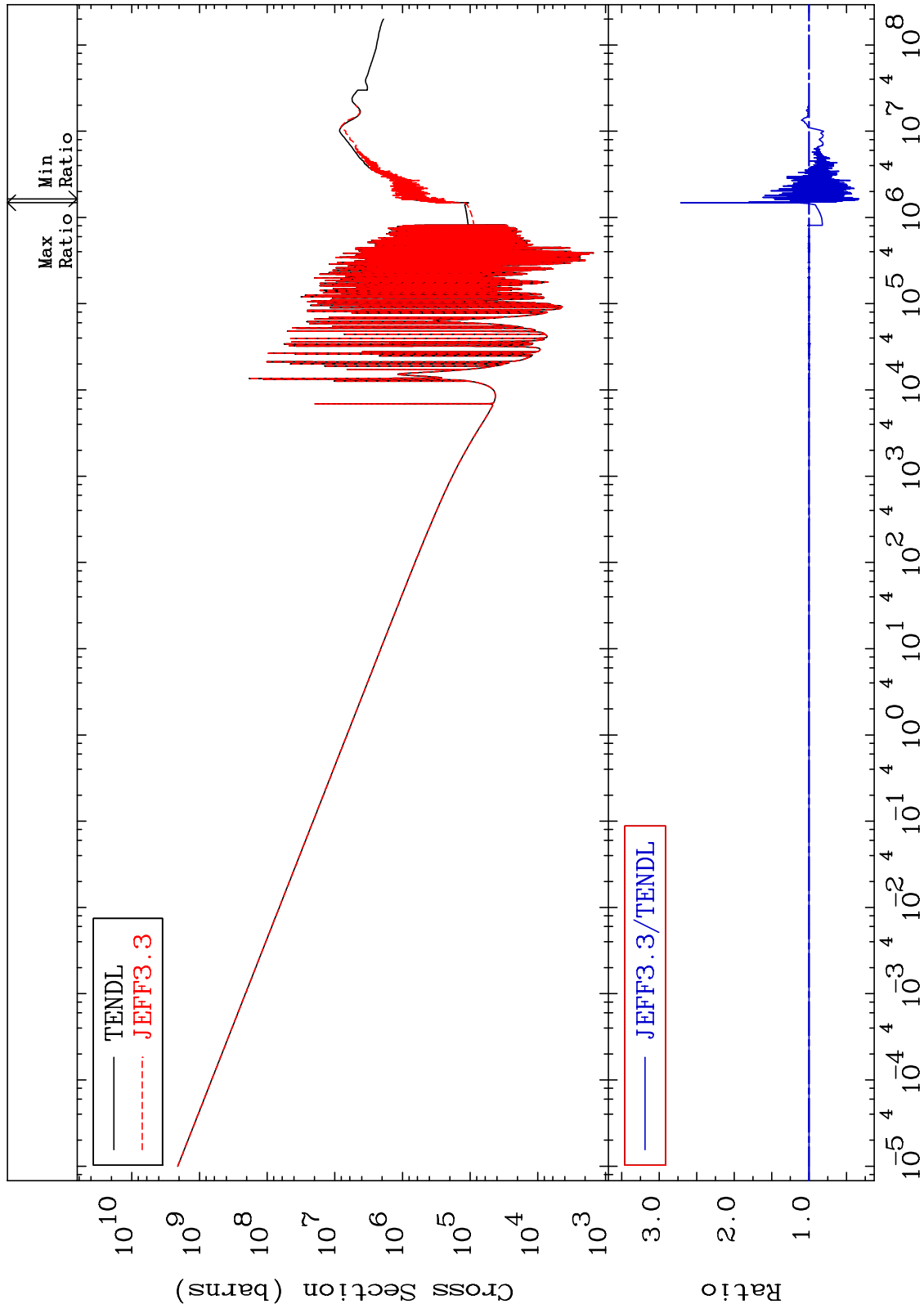
MAT 2825 Kerma capture (mt102) Cross Section 28-Ni-58 508.4 To 9999. %



MAT 2825

Total photon (eV-barns)
Cross Section

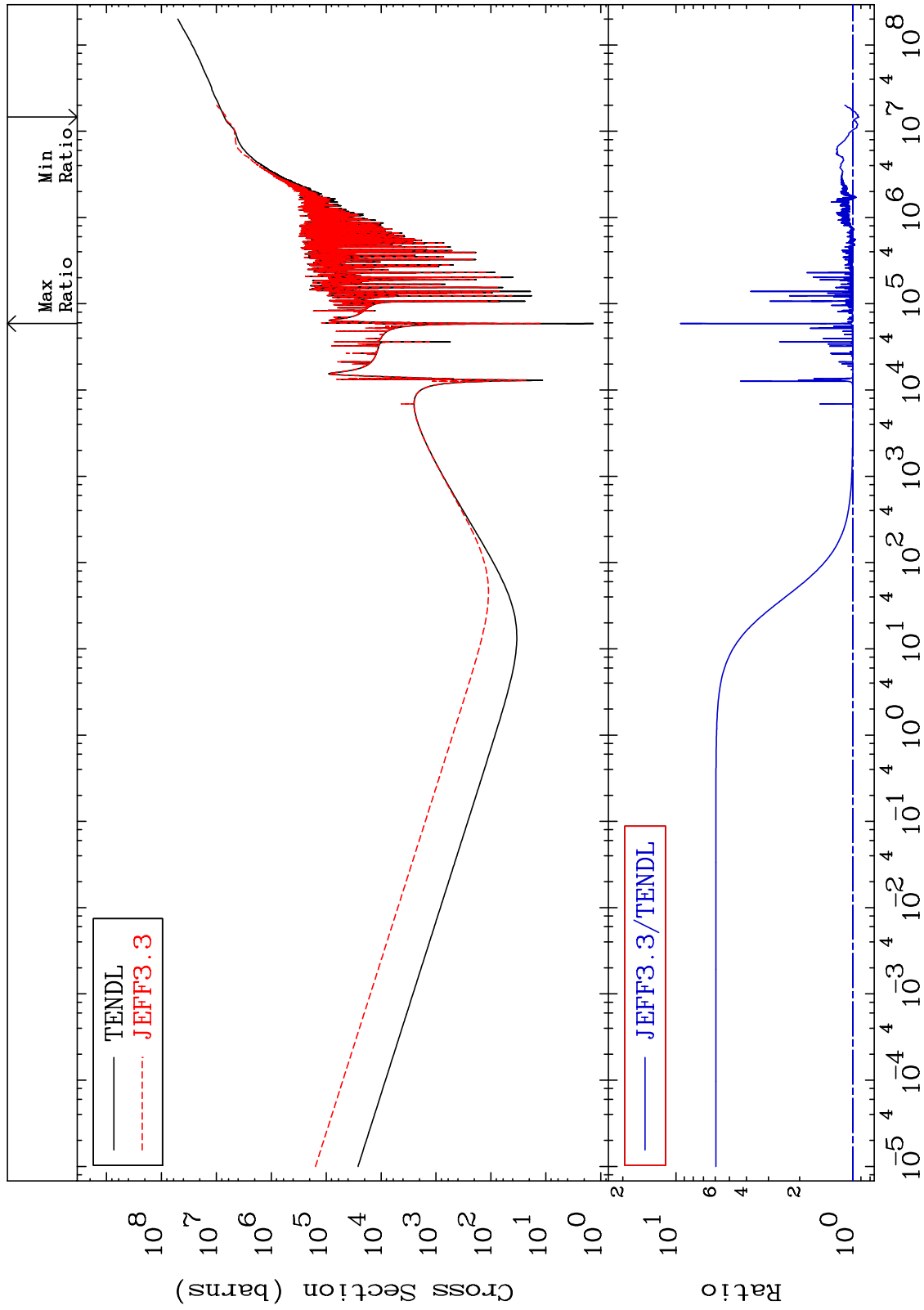
28-Ni-58
-66.55 To 171.4 %



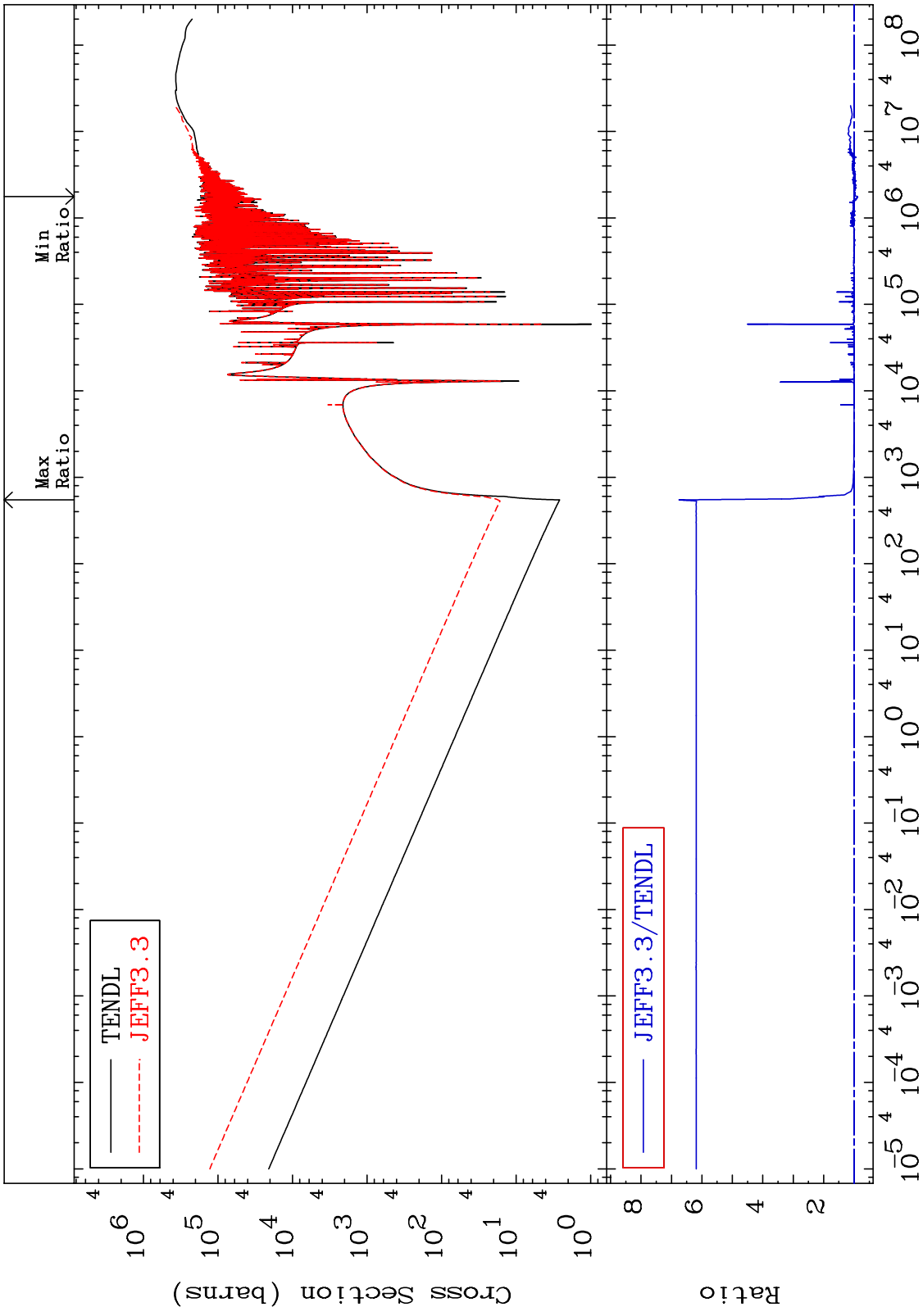
MAT 2825

Total kinematic kerma (high limit)
Cross Section

28-Ni-58
-7.611 To 842.3 %



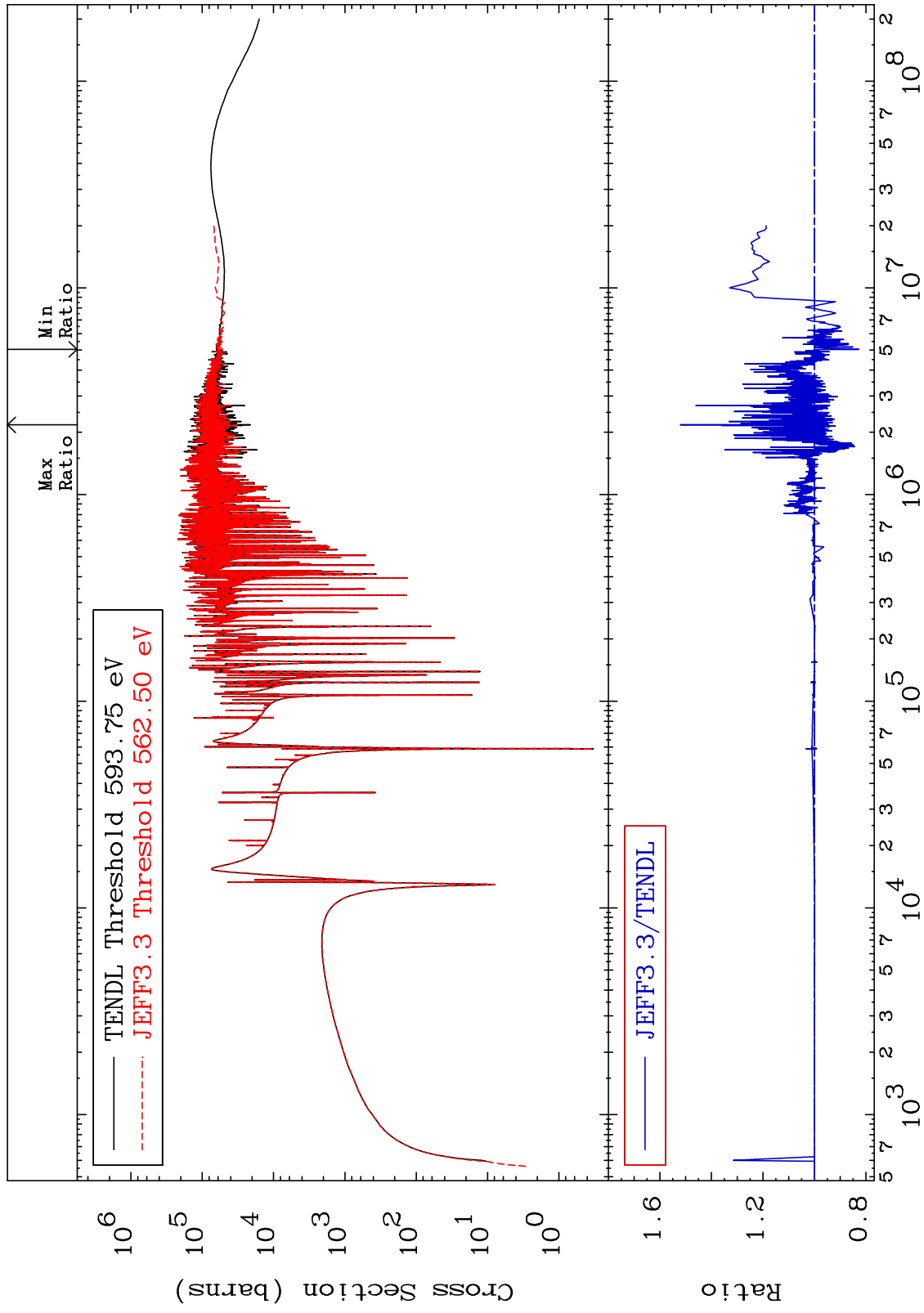
MAT 2825 Dpa total (eV-barns) 28-Ni-58
 -12.34 To 575.0 %



MAT 2825

Dpa elastic (mt2)
Cross Section

28-Ni-58
-17.28 To 51.95 %



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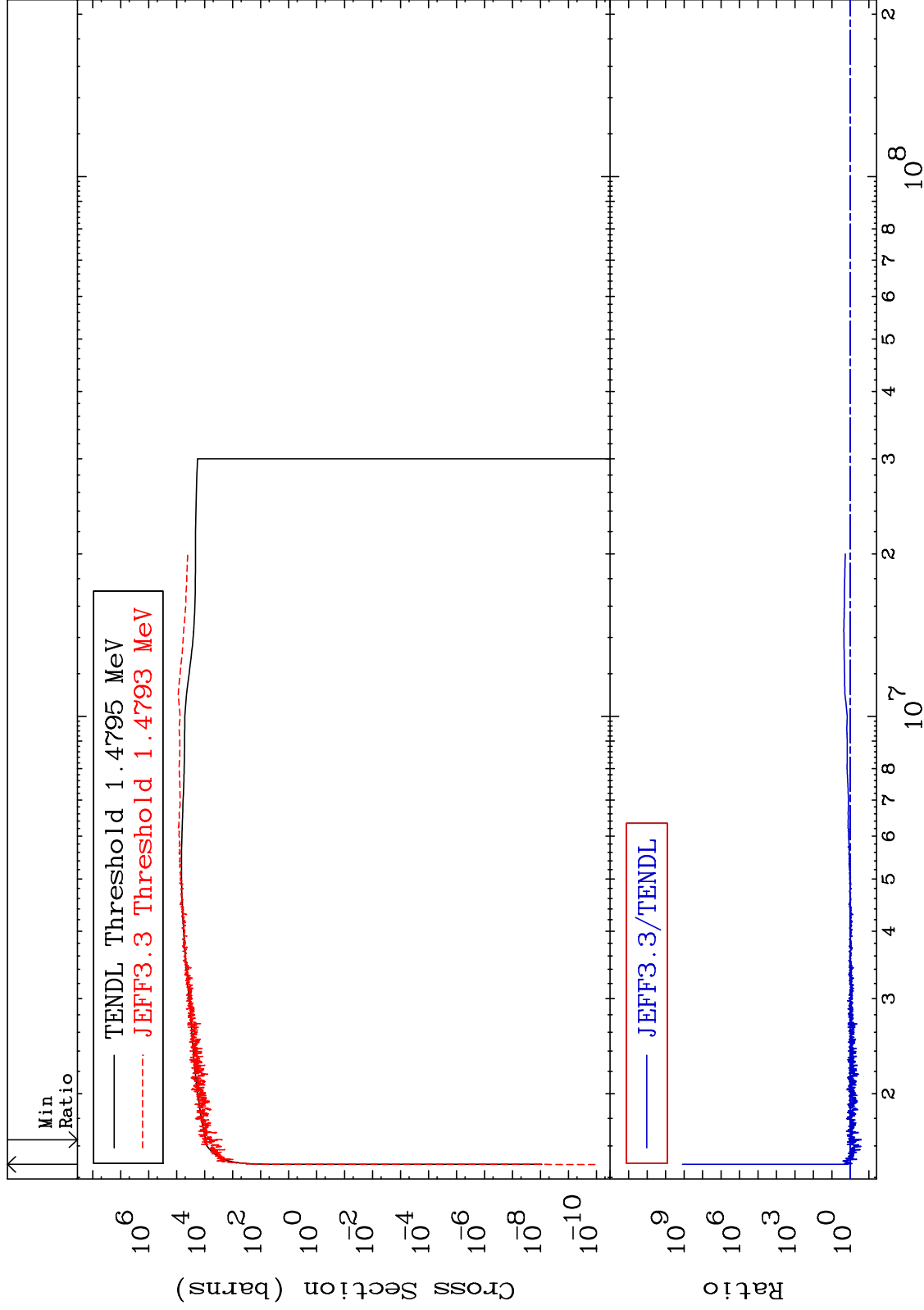
Incident Energy (eV)

28-Ni-58

MAT 2825

Dpa inelastic (mt51-91)
Cross Section

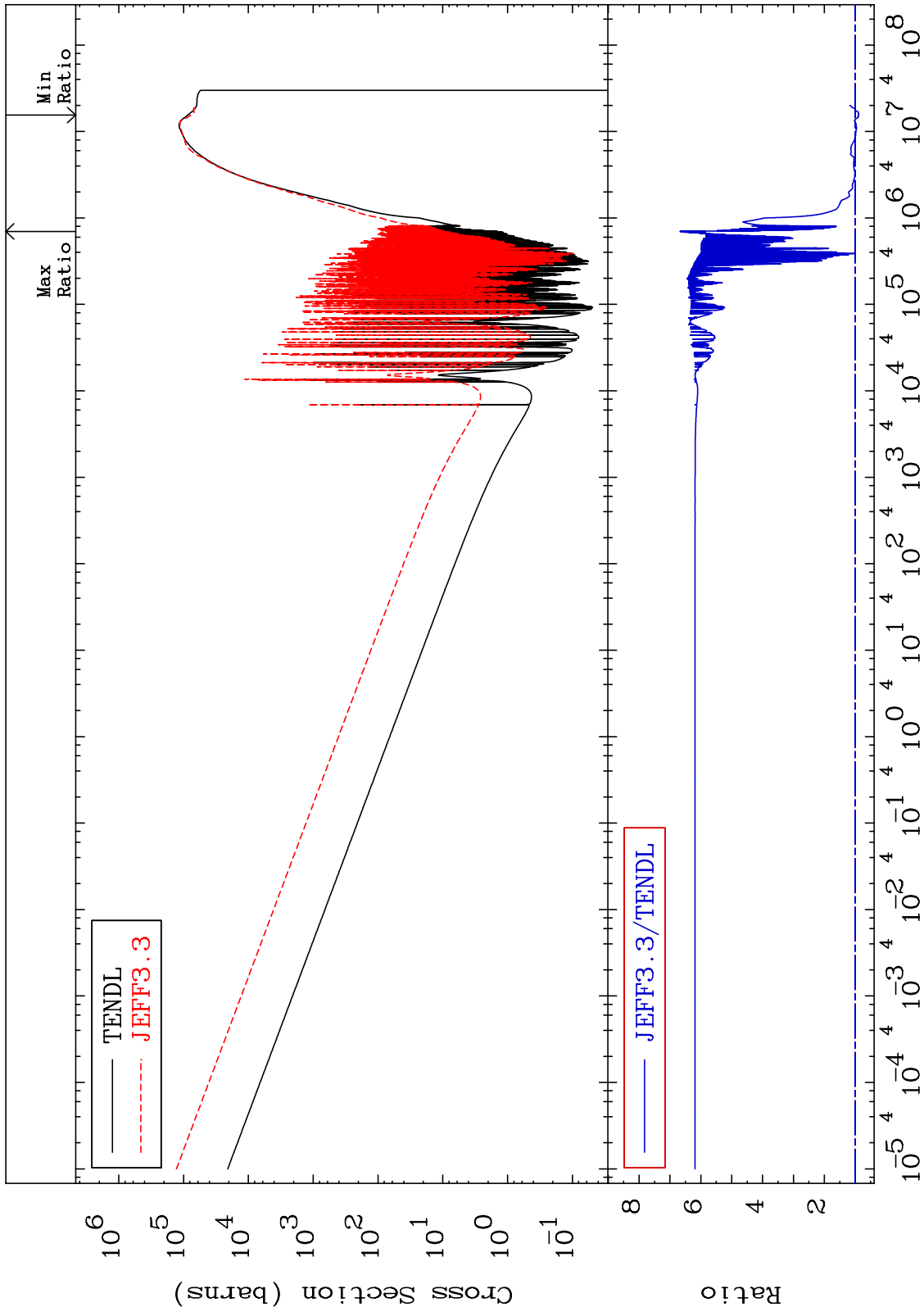
28-Ni-58
-74.20 To 9999. %



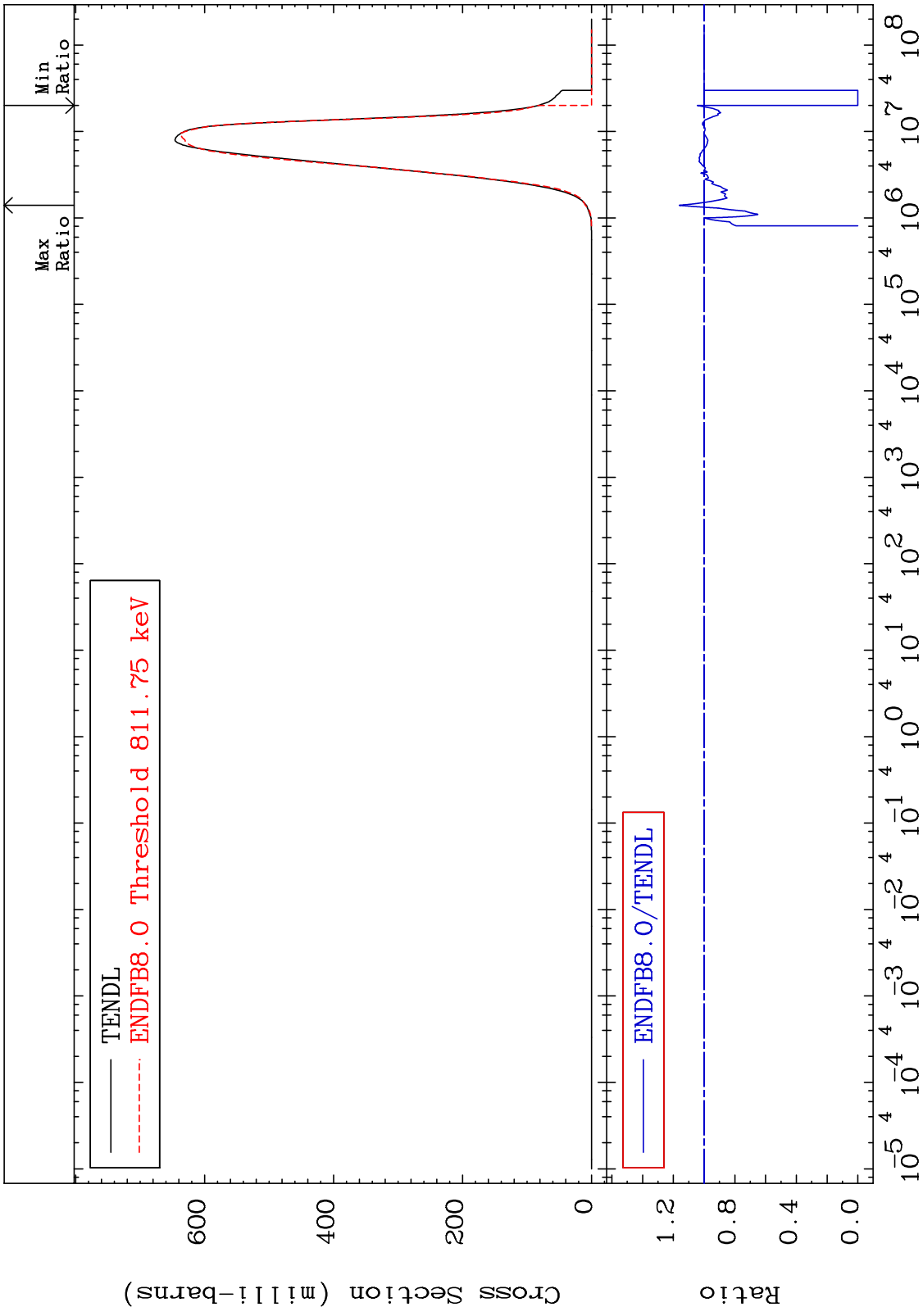
MAT 2825

Dpa disappearance (mt102 -120)
Cross Section

28-Ni-58
-11.87 To 566.8 %

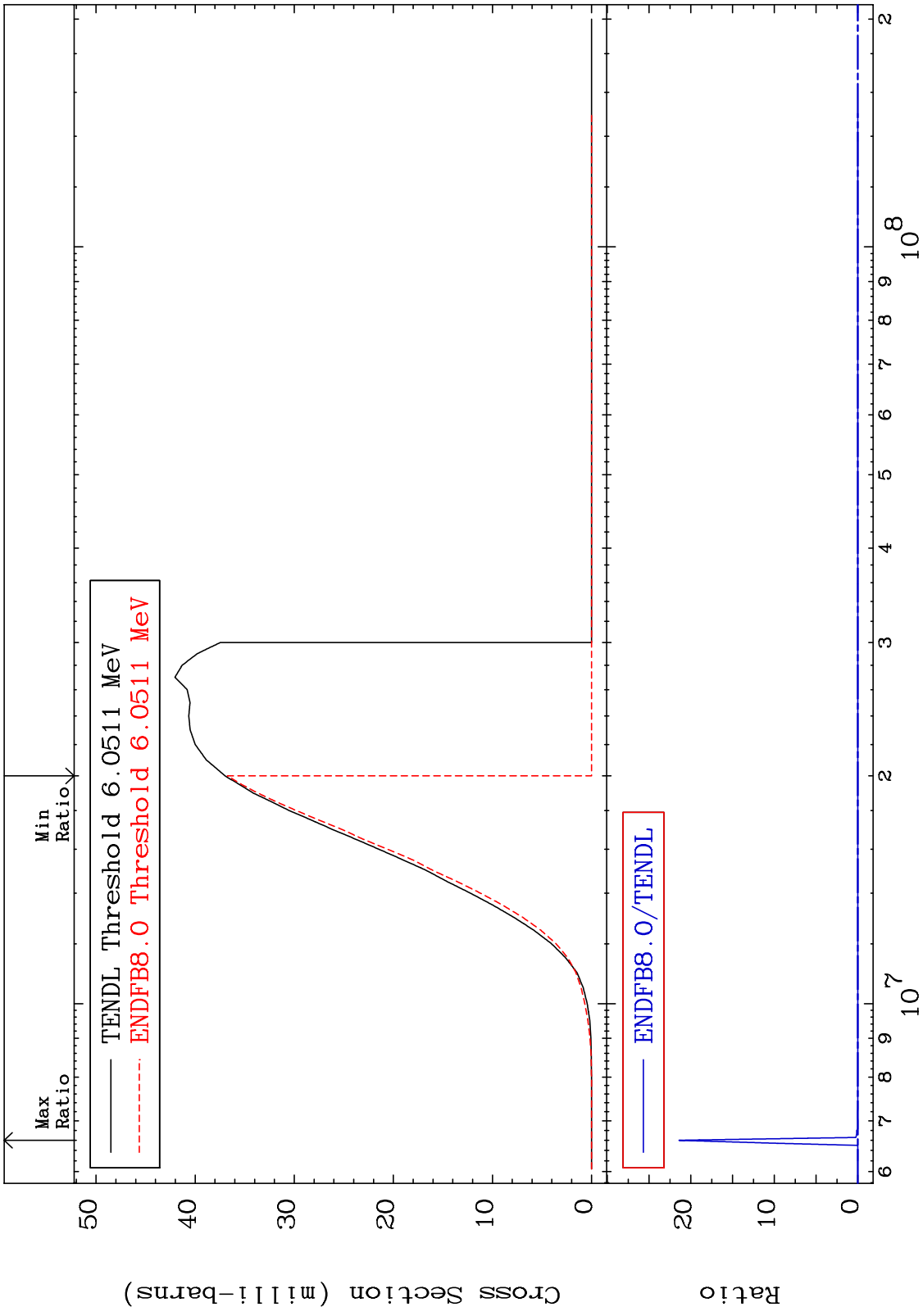


MAT 2825 (n,p) Cross Section 28-Ni-58
-100.0 To 16.30 %

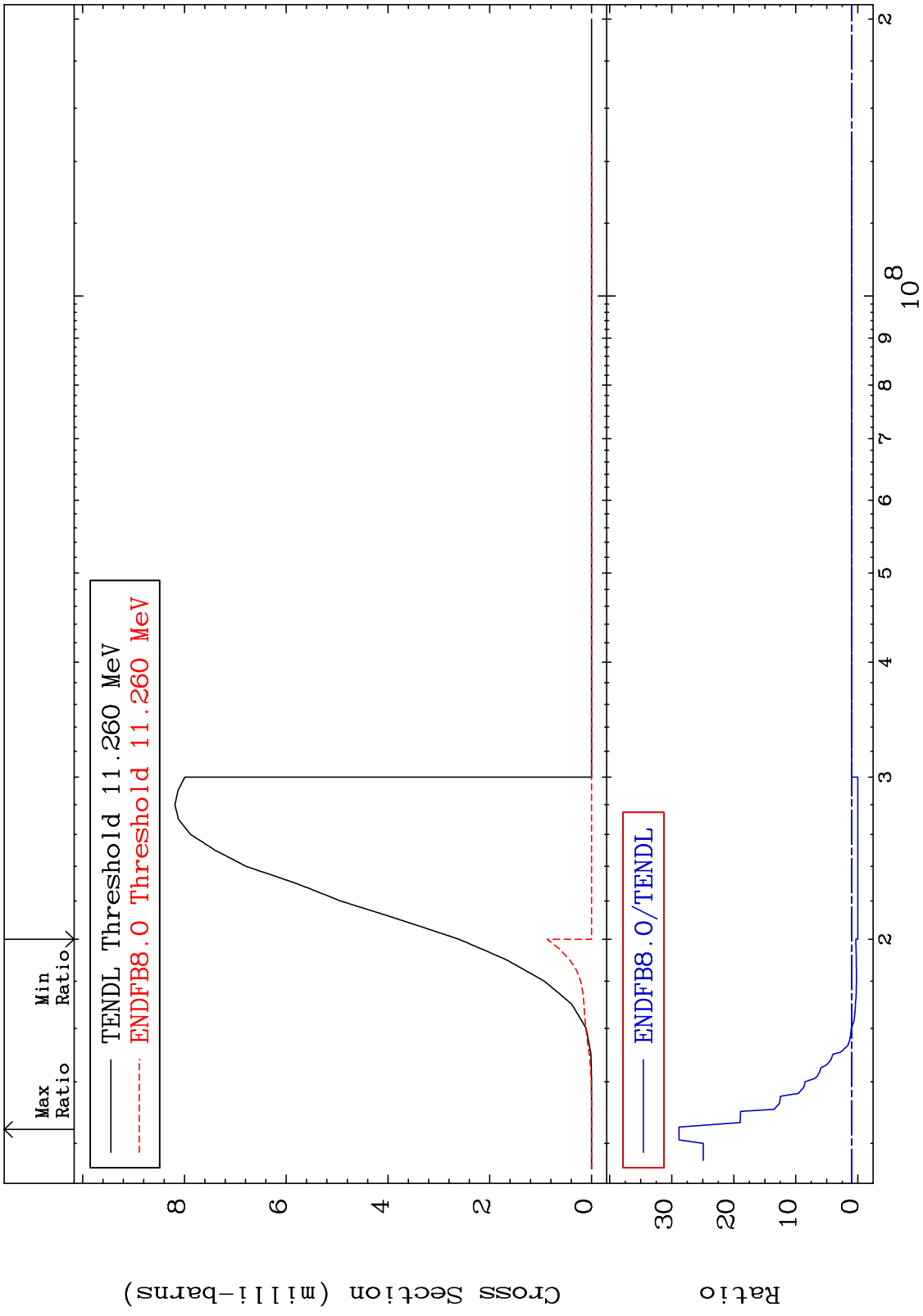


40 Incident Energy (eV) 28-Ni-58

MAT 2825 (n,d) 28-Ni-58
 Cross Section -100.0 To 9999. %



41 28-Ni-58 Incident Energy (eV)



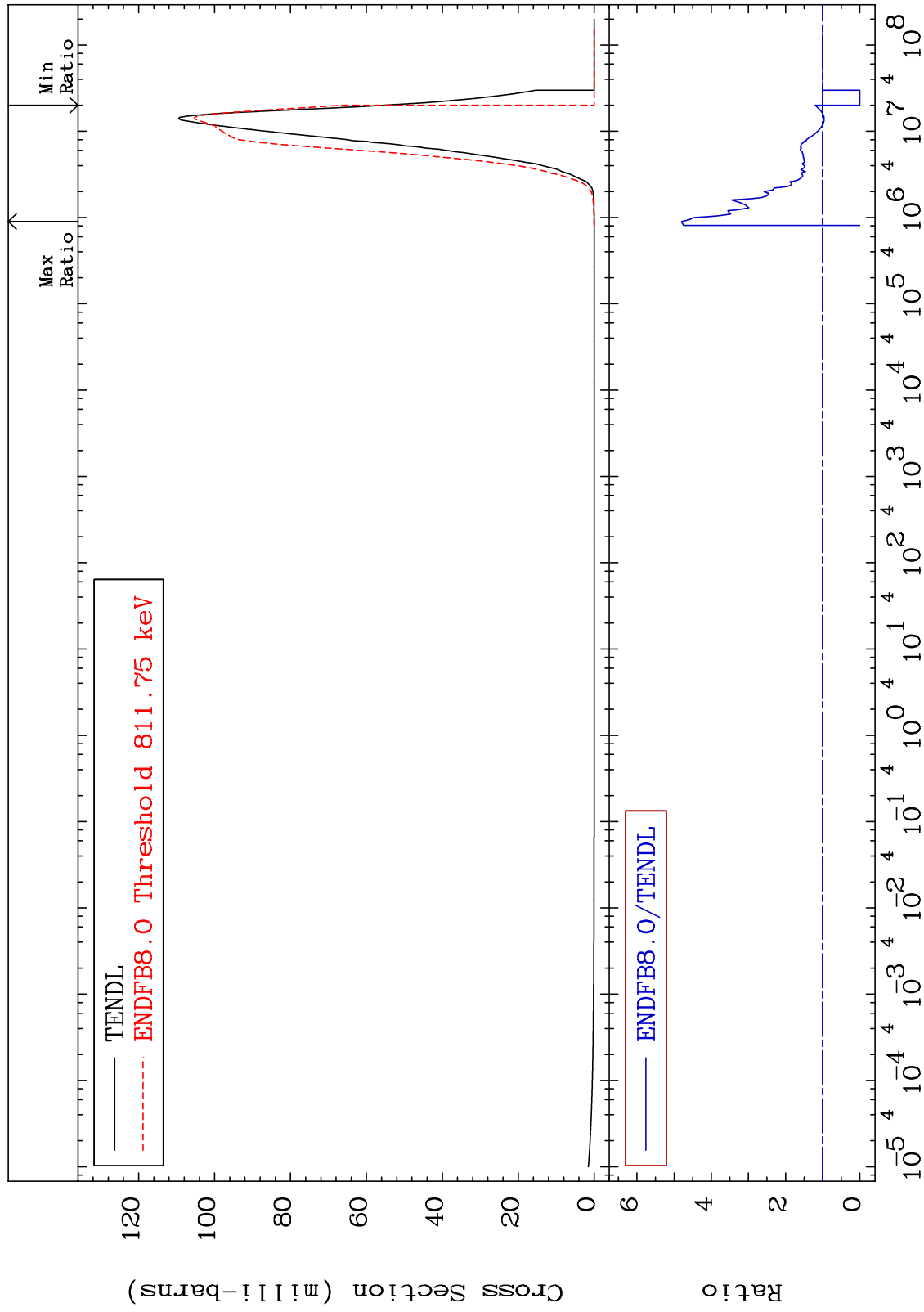
MAT 2825

(n,α)

28-Ni-58

Cross Section

-100.0 To 380.2 %

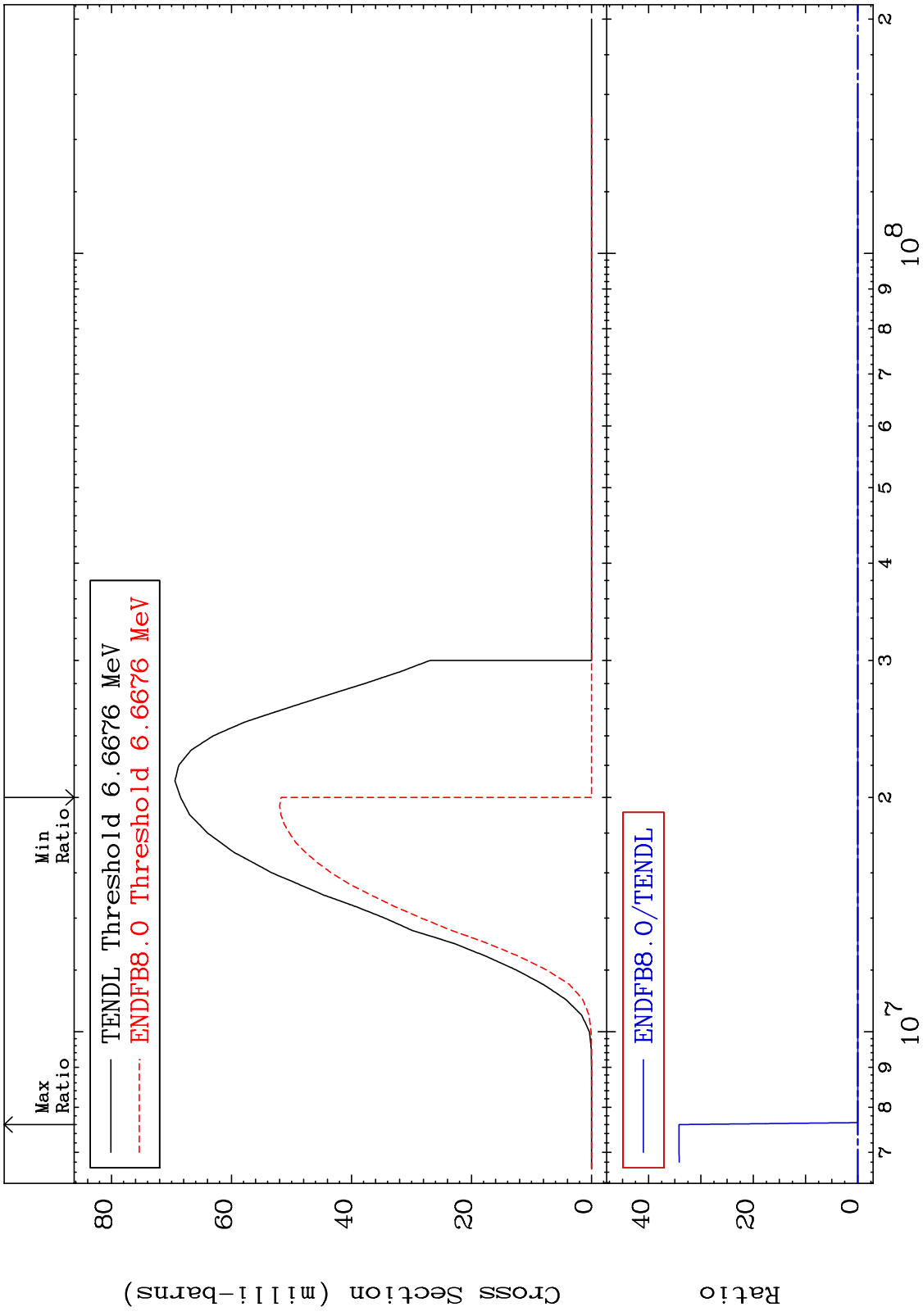


43

Incident Energy (eV)

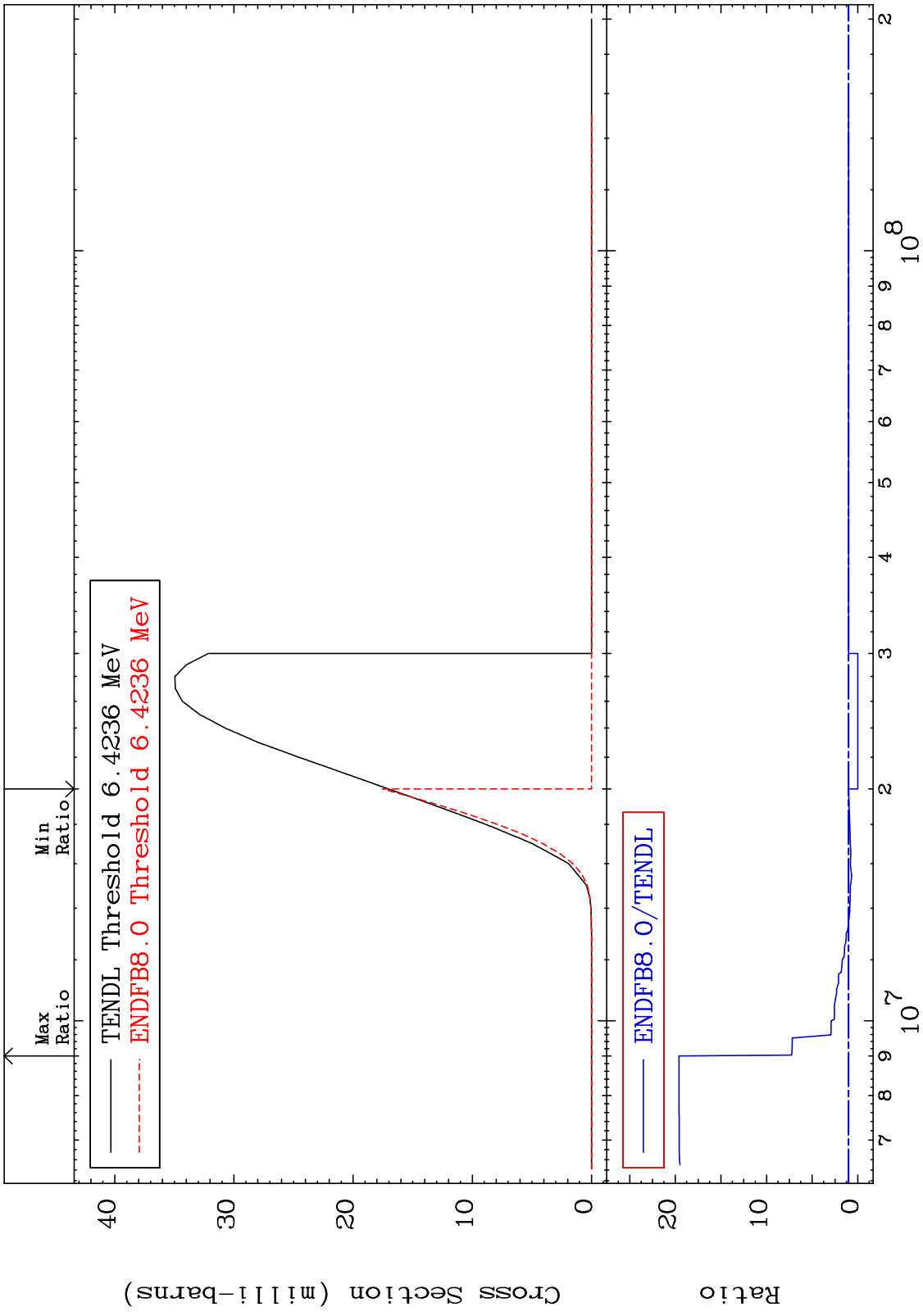
28-Ni-58

MAT 2825 (n,2p) Cross Section 28-Ni-58 -100.0 To 9999. %



44 28-Ni-58

MAT 2825 (n,p) α 28-Ni-58
 Cross Section -100.0 To 1859. %

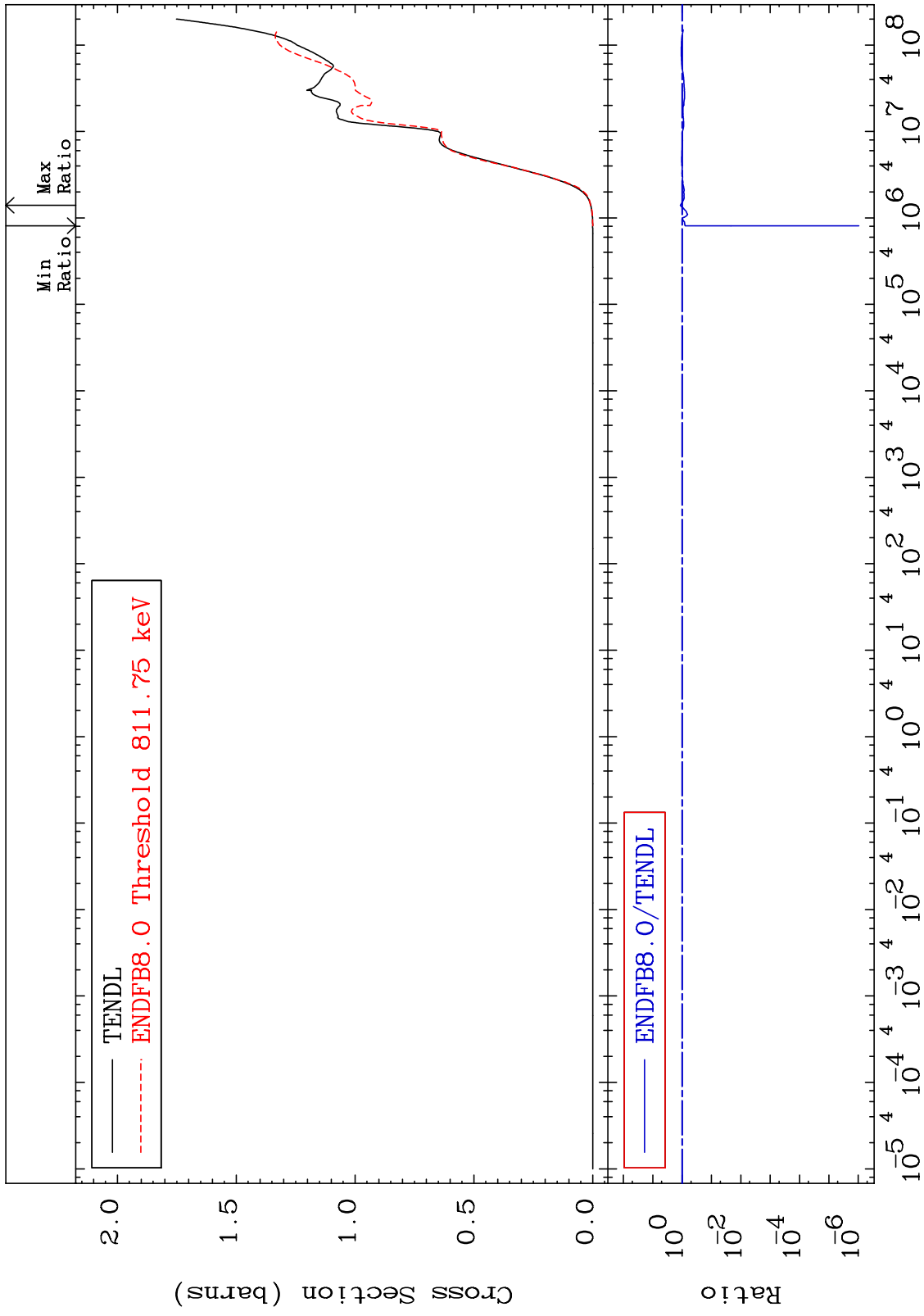


45 28-Ni-58 Incident Energy (eV)

MAT 2825

Hydrogen Production
Cross Section

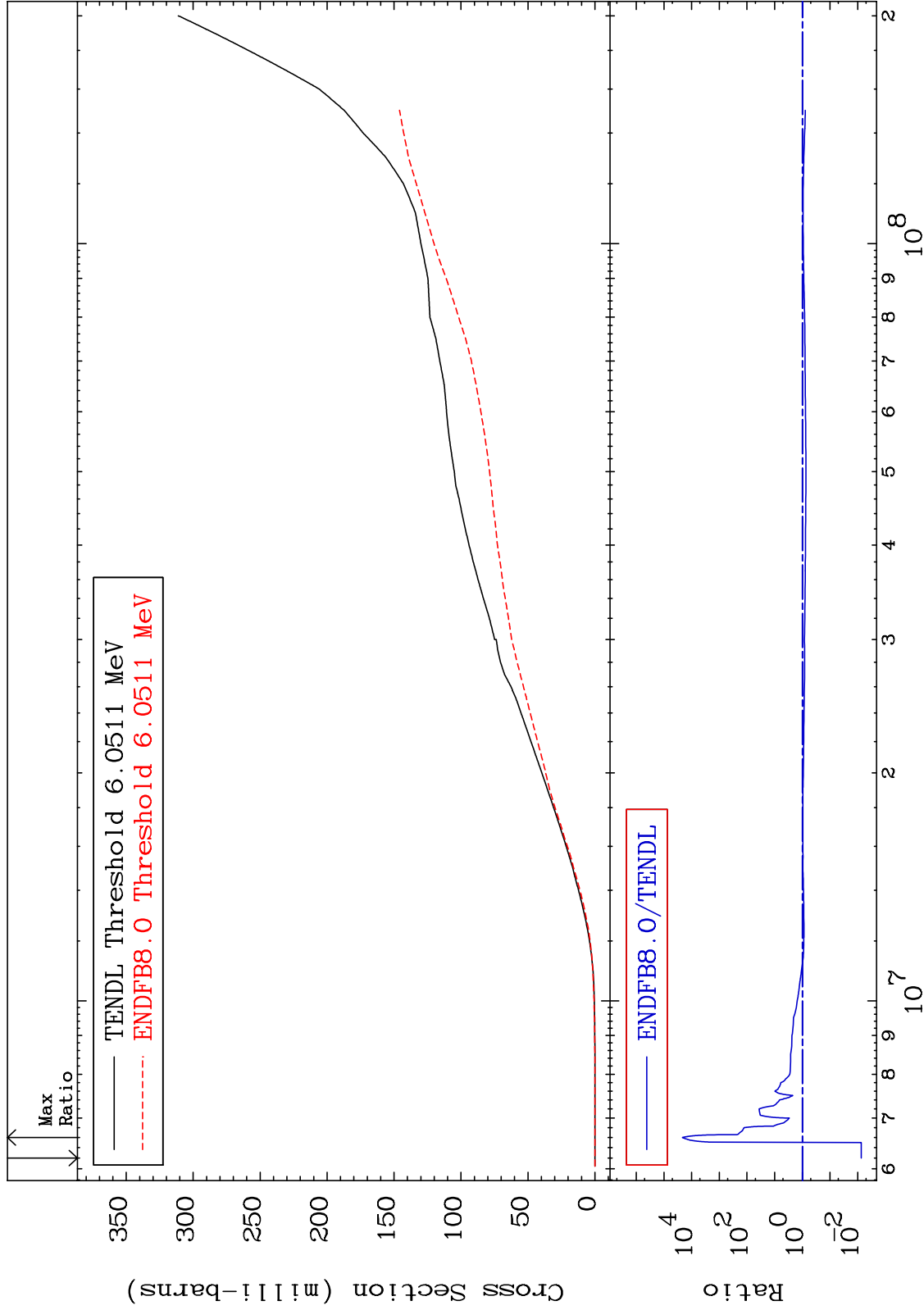
28-Ni-58
-100.0 To 16.30 %



MAT 2825

Deuterium Production
Cross Section

28-Ni-58
-99.26 To 9999. %



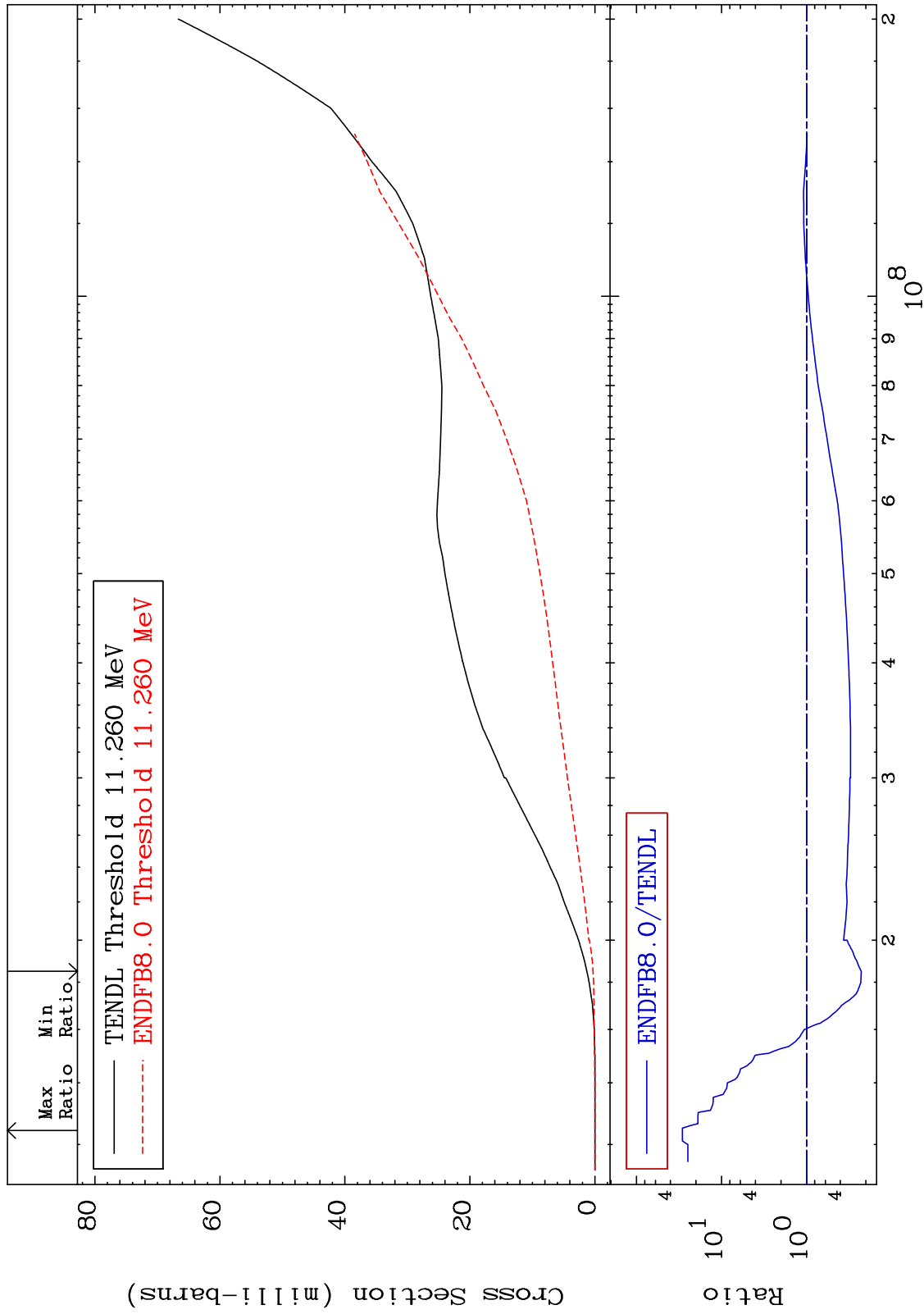
47

28-Ni-58

MAT 2825

Tritium Production
Cross Section

28-Ni-58
-77.32 To 2782. %



48

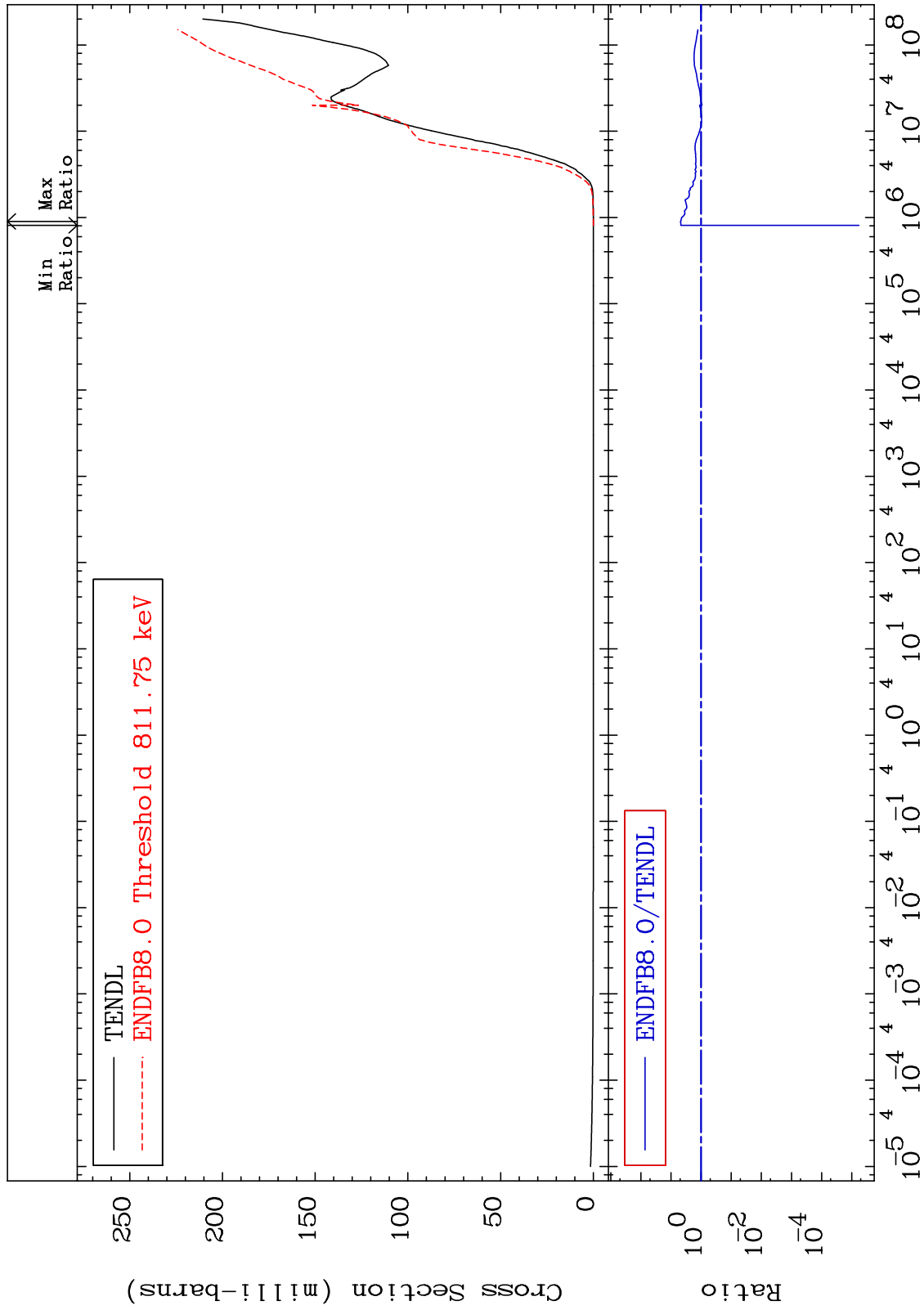
Incident Energy (eV)

28-Ni-58

MAT 2825

He-4 Production
Cross Section

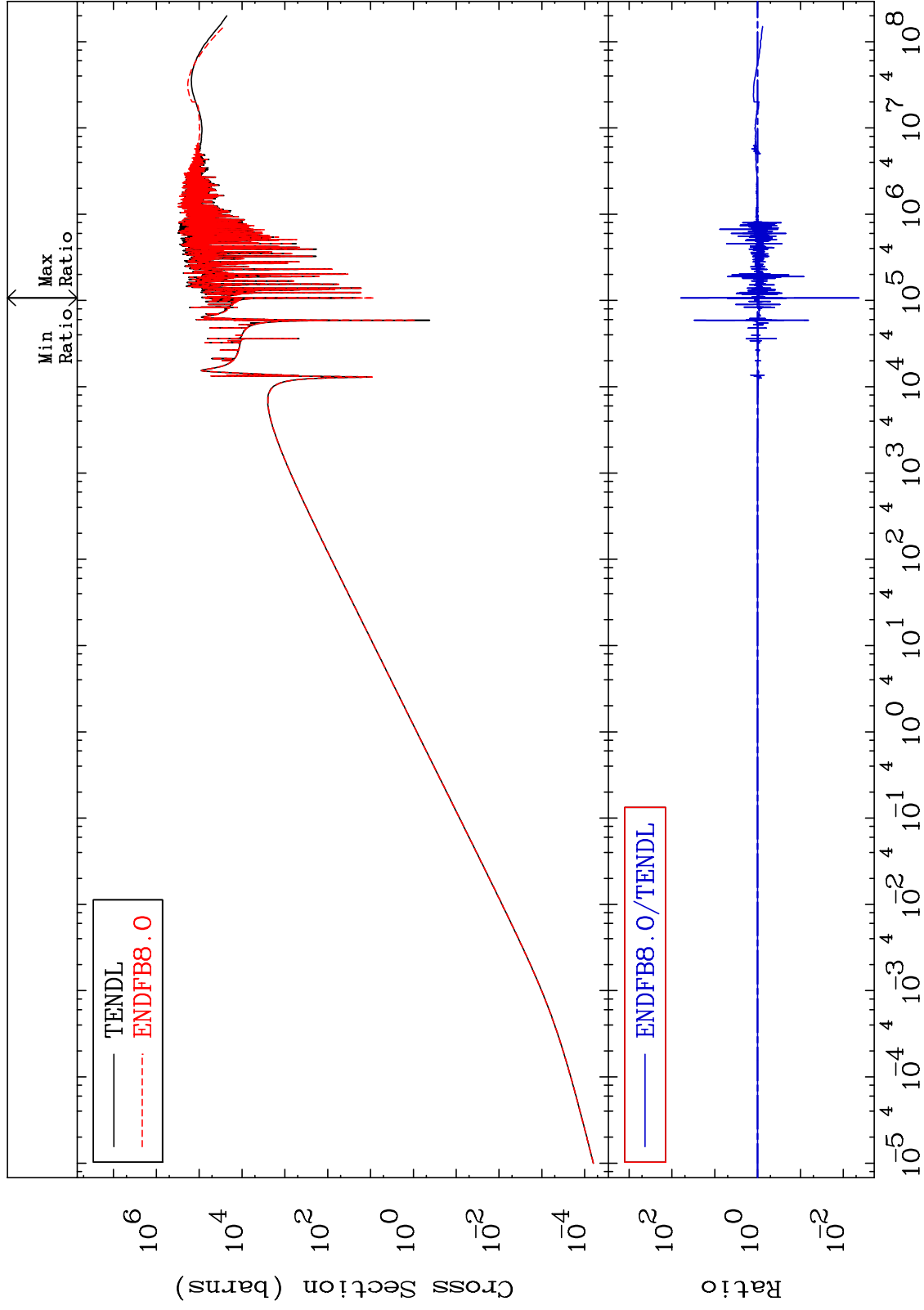
28-Ni-58
-100.0 To 380.2 %



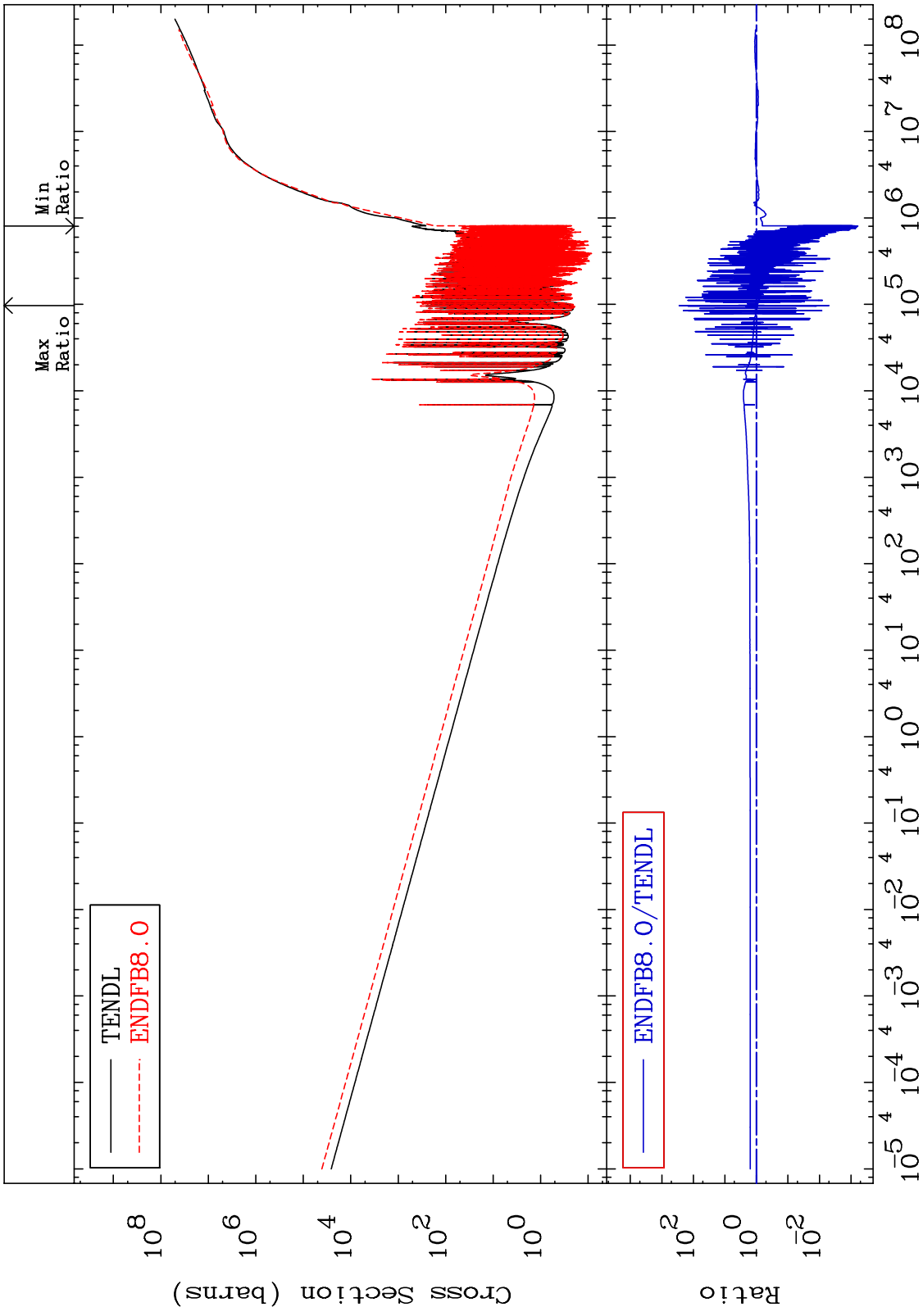
MAT 2825

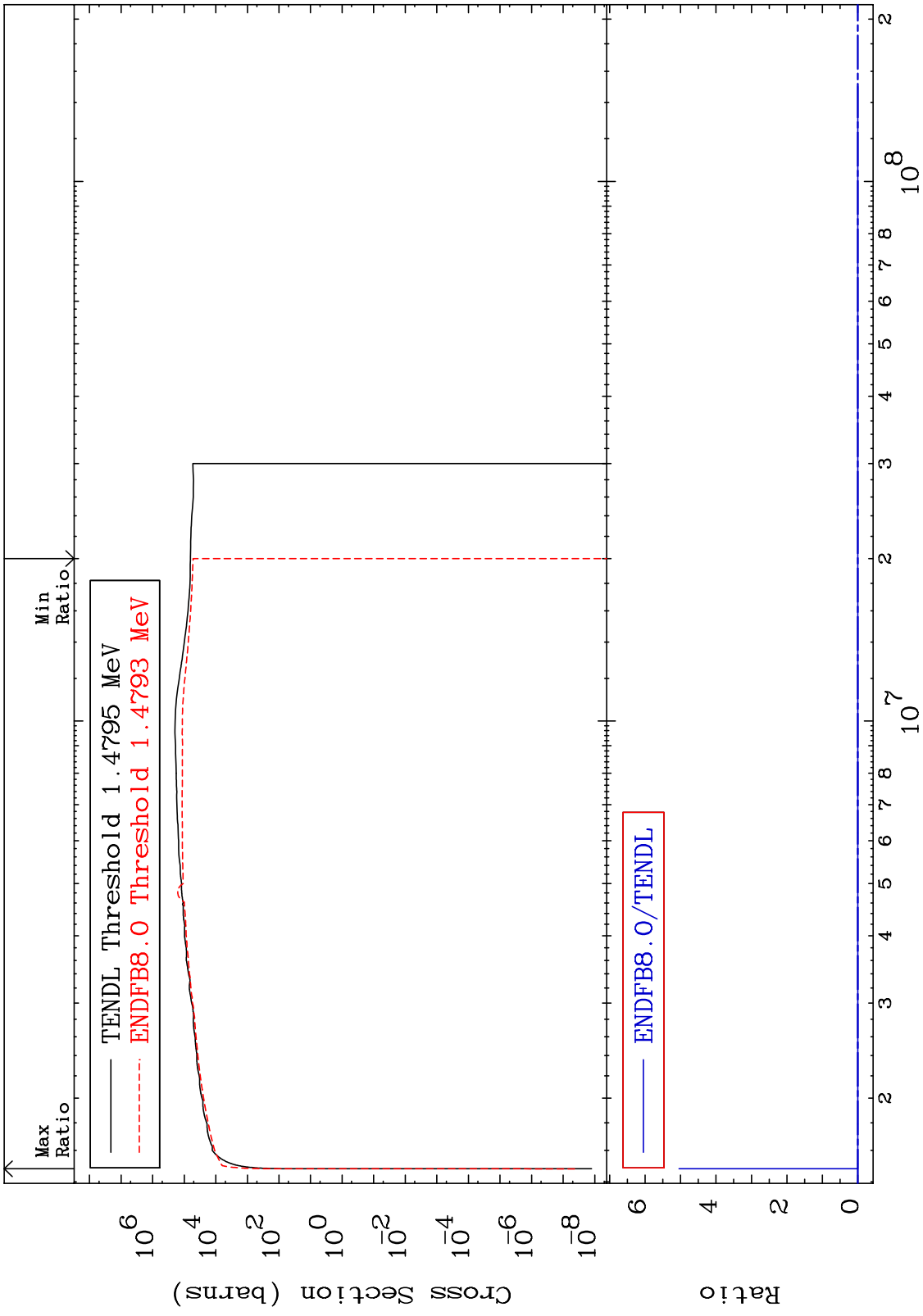
Kerma elastic
Cross Section

28-Ni-58
-99.57 To 6161. %



MAT 2825 Kerma non-elastic (all but mt2) 28-Ni-58
 Cross Section -99.94 To 9999. %

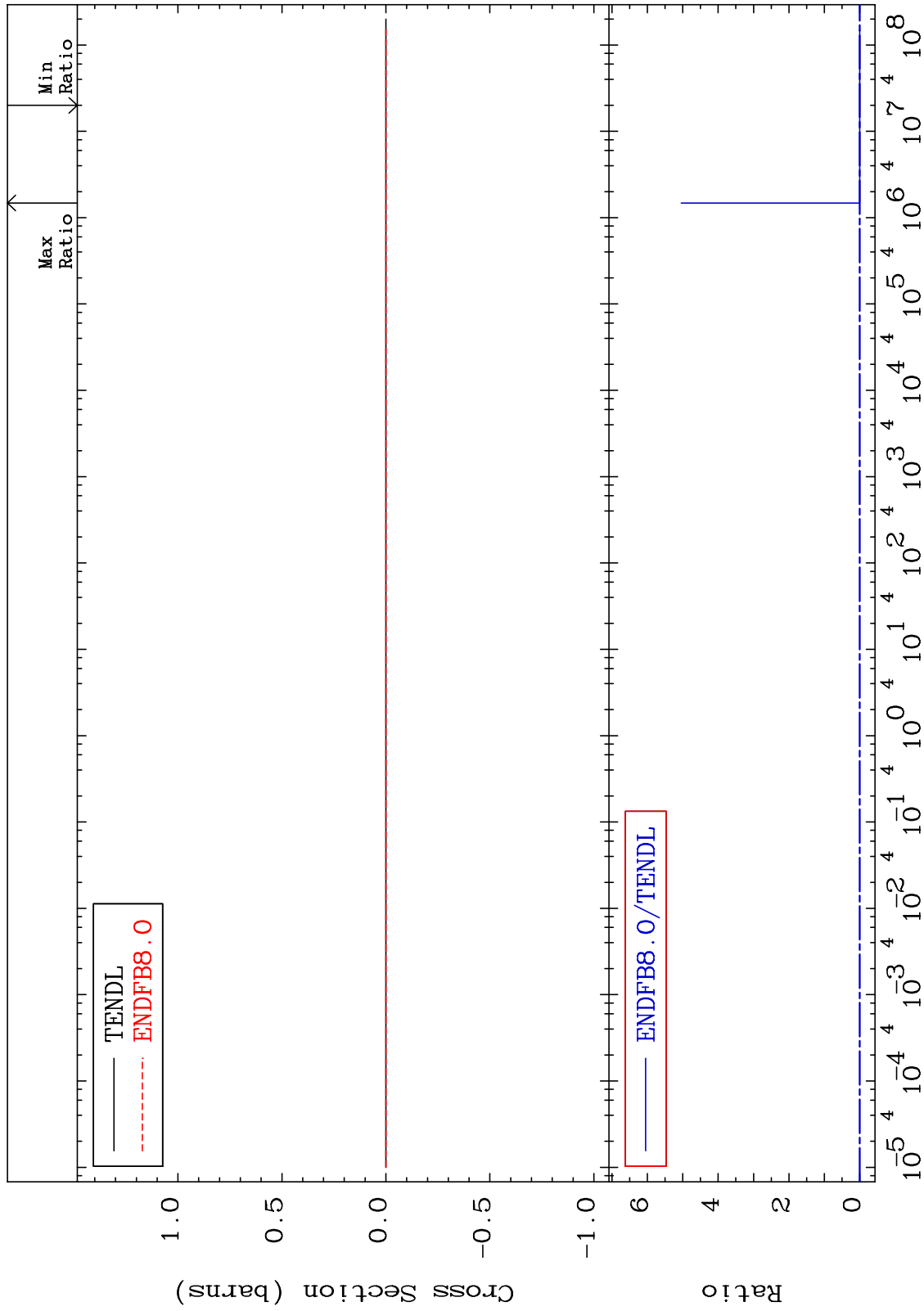




MAT 2825

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

28-Ni-58
-100.0 To 9999. %

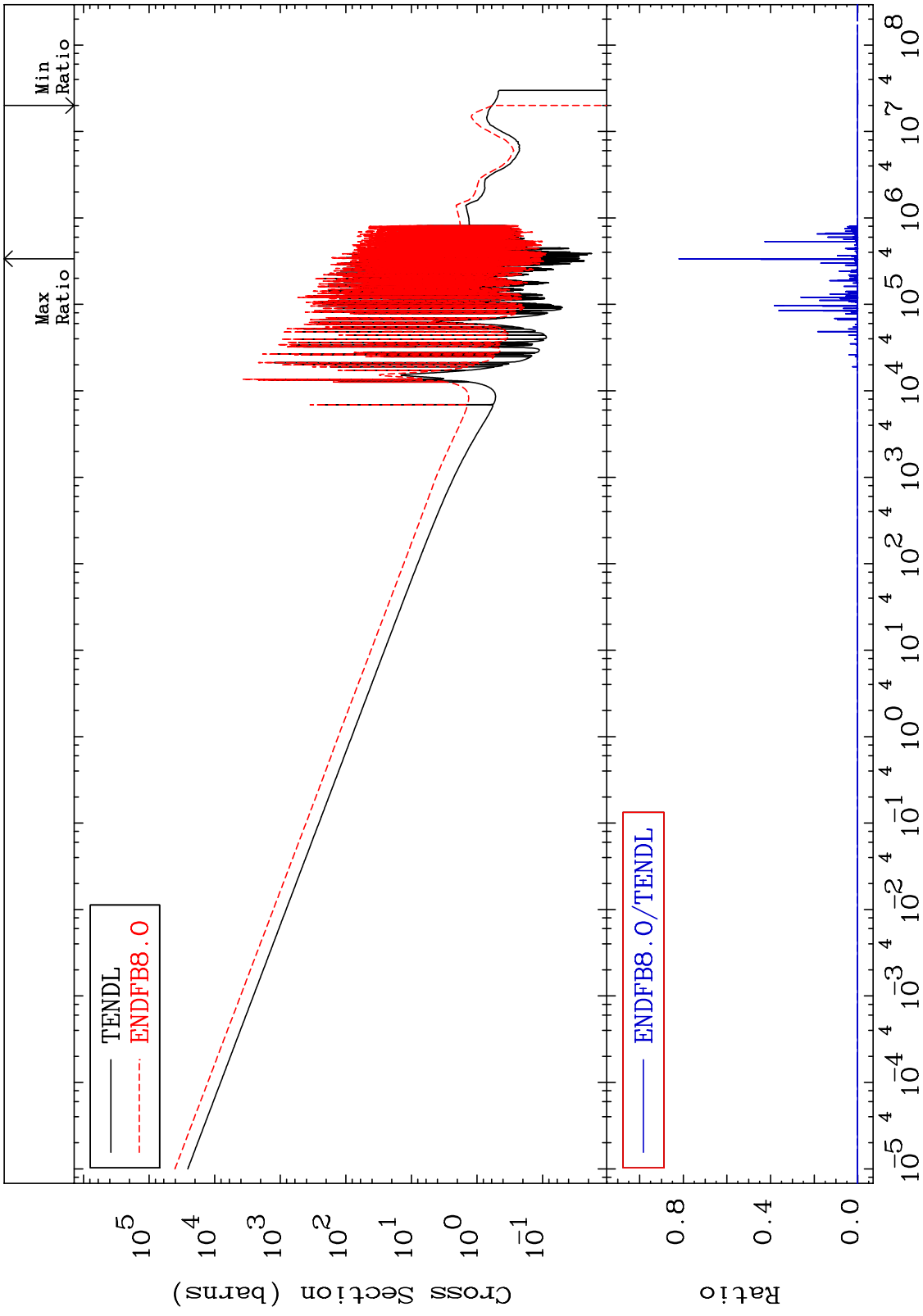


54

Incident Energy (eV)

28-Ni-58

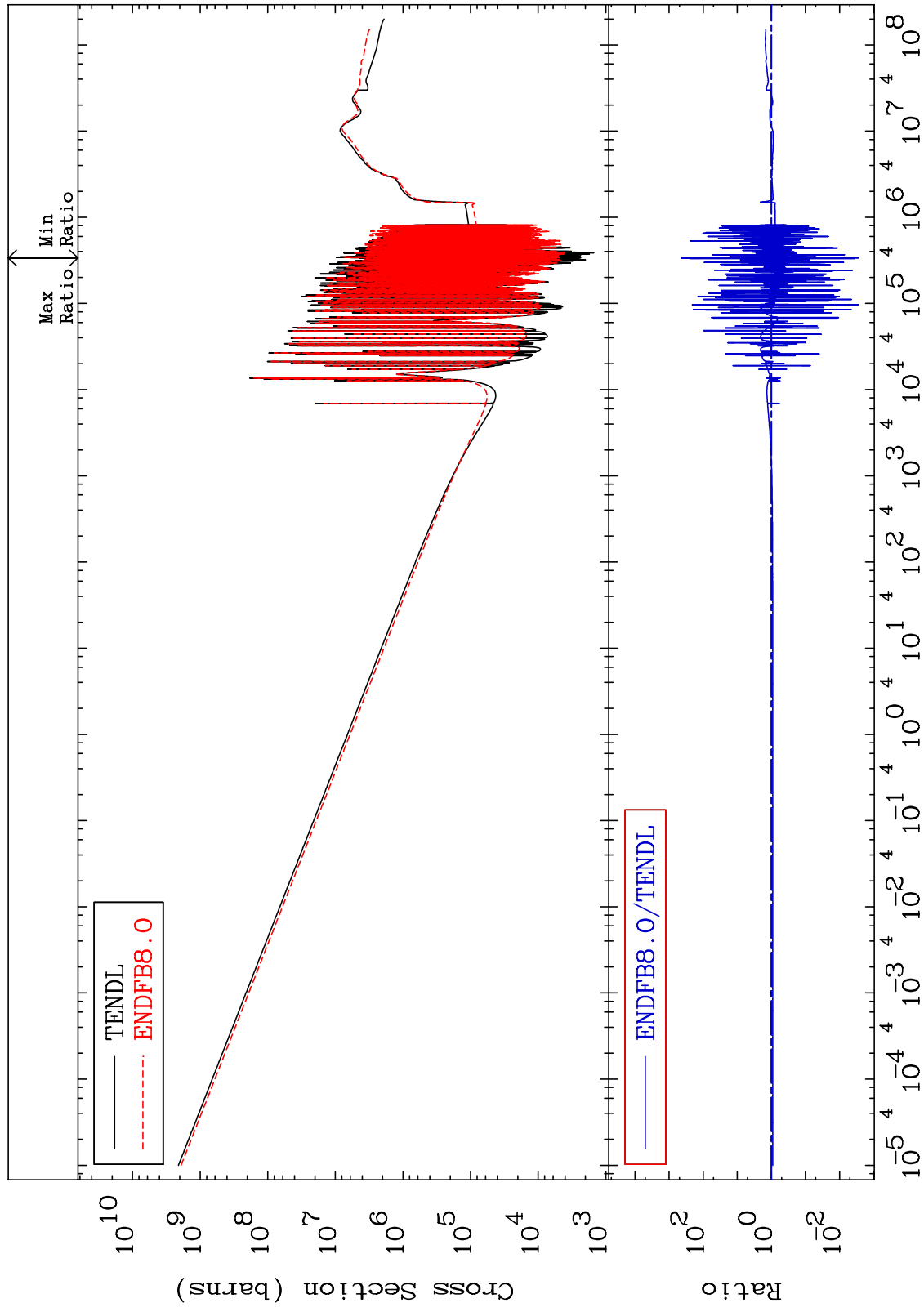
MAT 2825 Kerma capture (mt102) 28-Ni-58
 Cross Section -100.0 To 9999. %



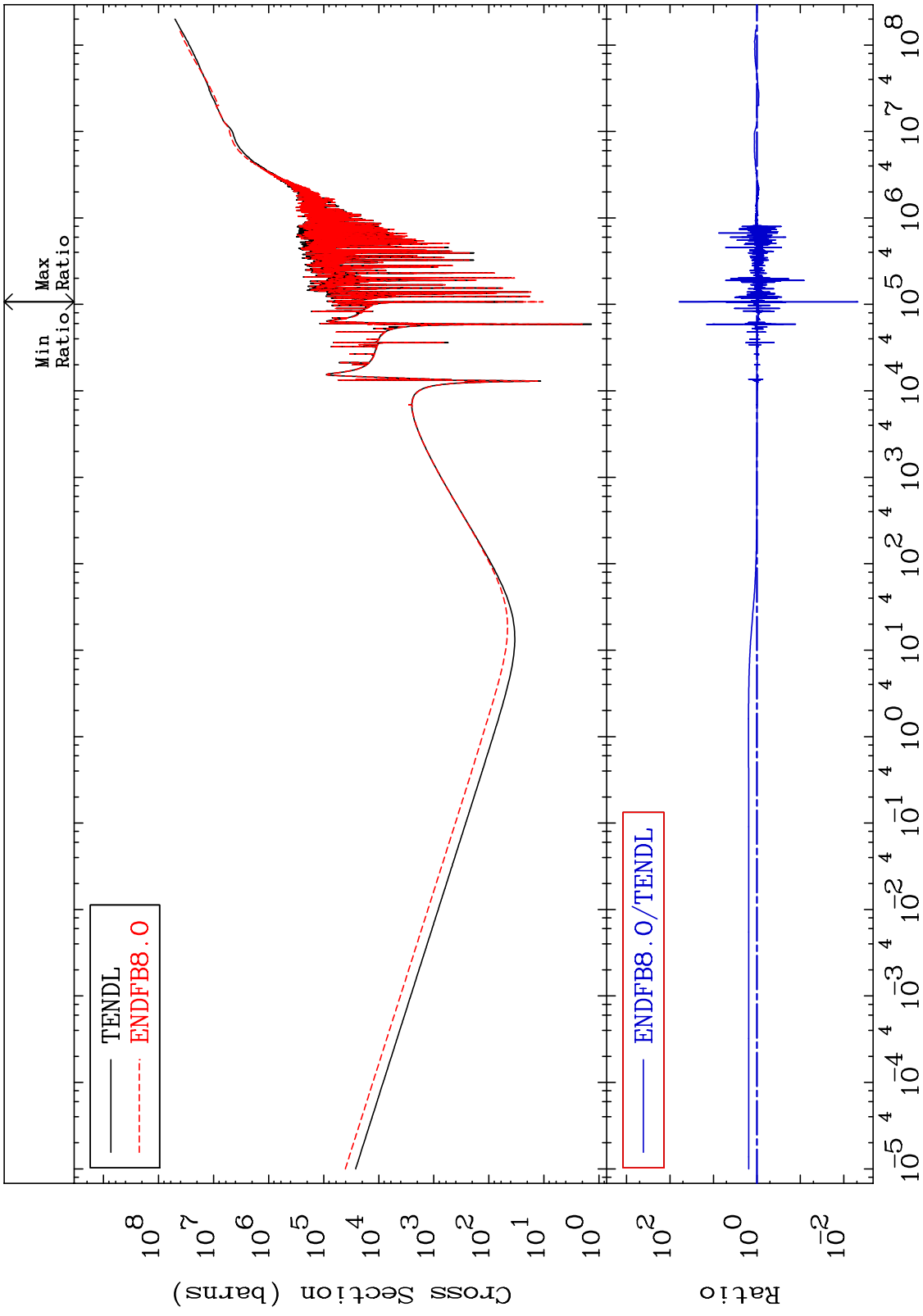
MAT 2825

Total photon (eV-barns)
Cross Section

28-Ni-58
-99.73 To 9999. %



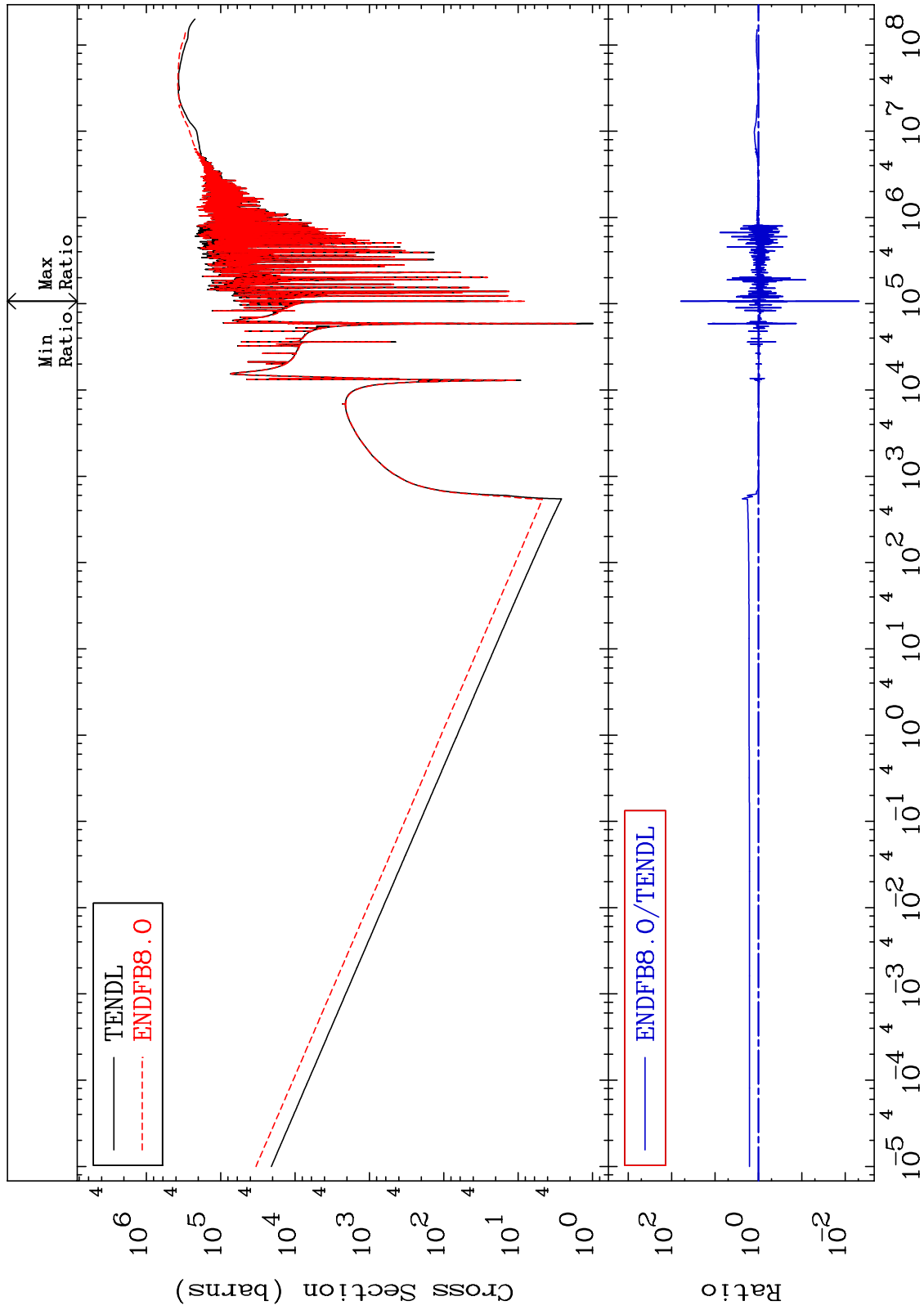
MAT 2825 Total kinematic kerma (high limit) 28-Ni-58
Cross Section -99.52 To 6069. %



MAT 2825

Dpa total (eV-barns)
Cross Section

28-Ni-58
-99.52 To 6091. %



58

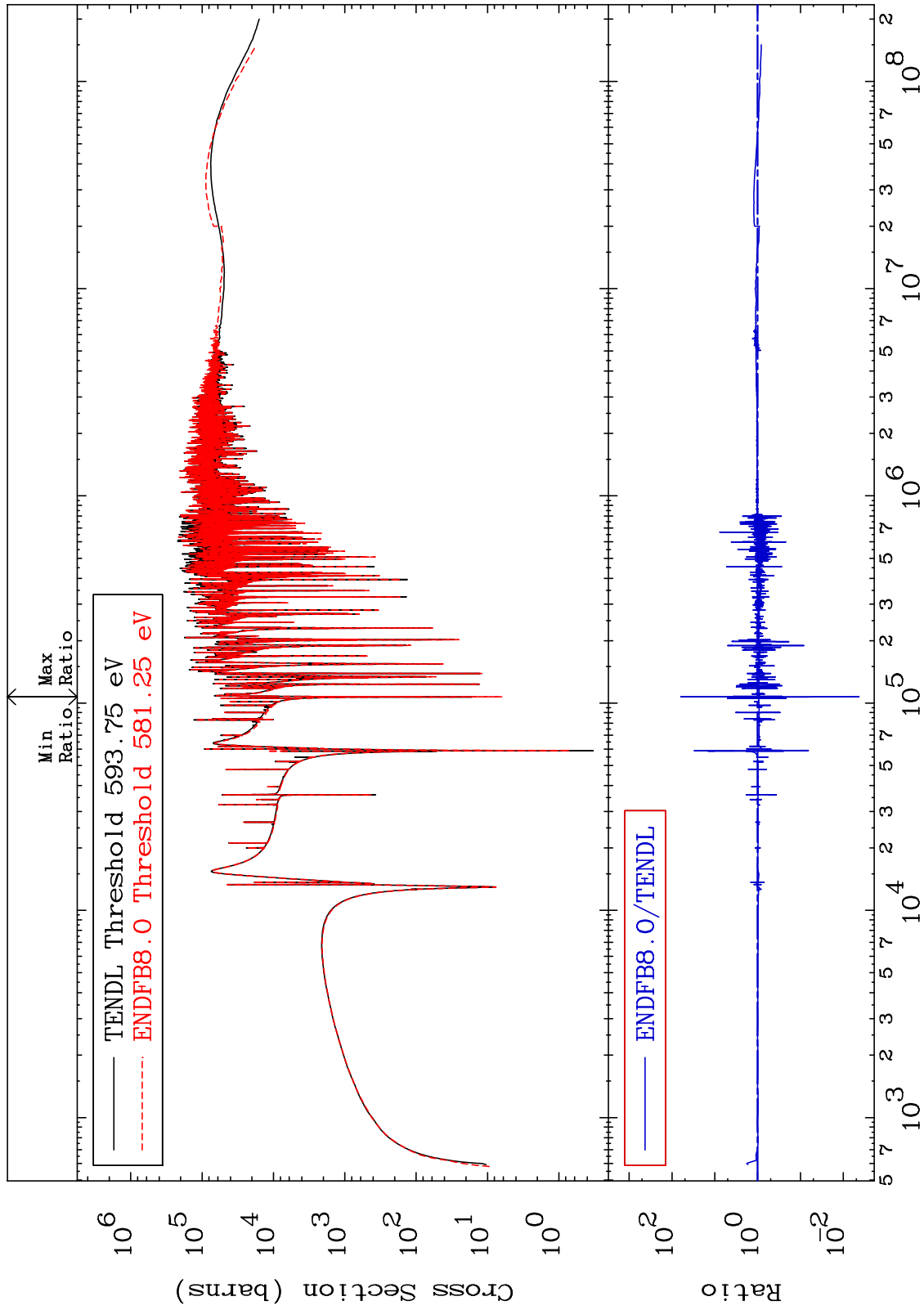
Incident Energy (eV)

28-Ni-58

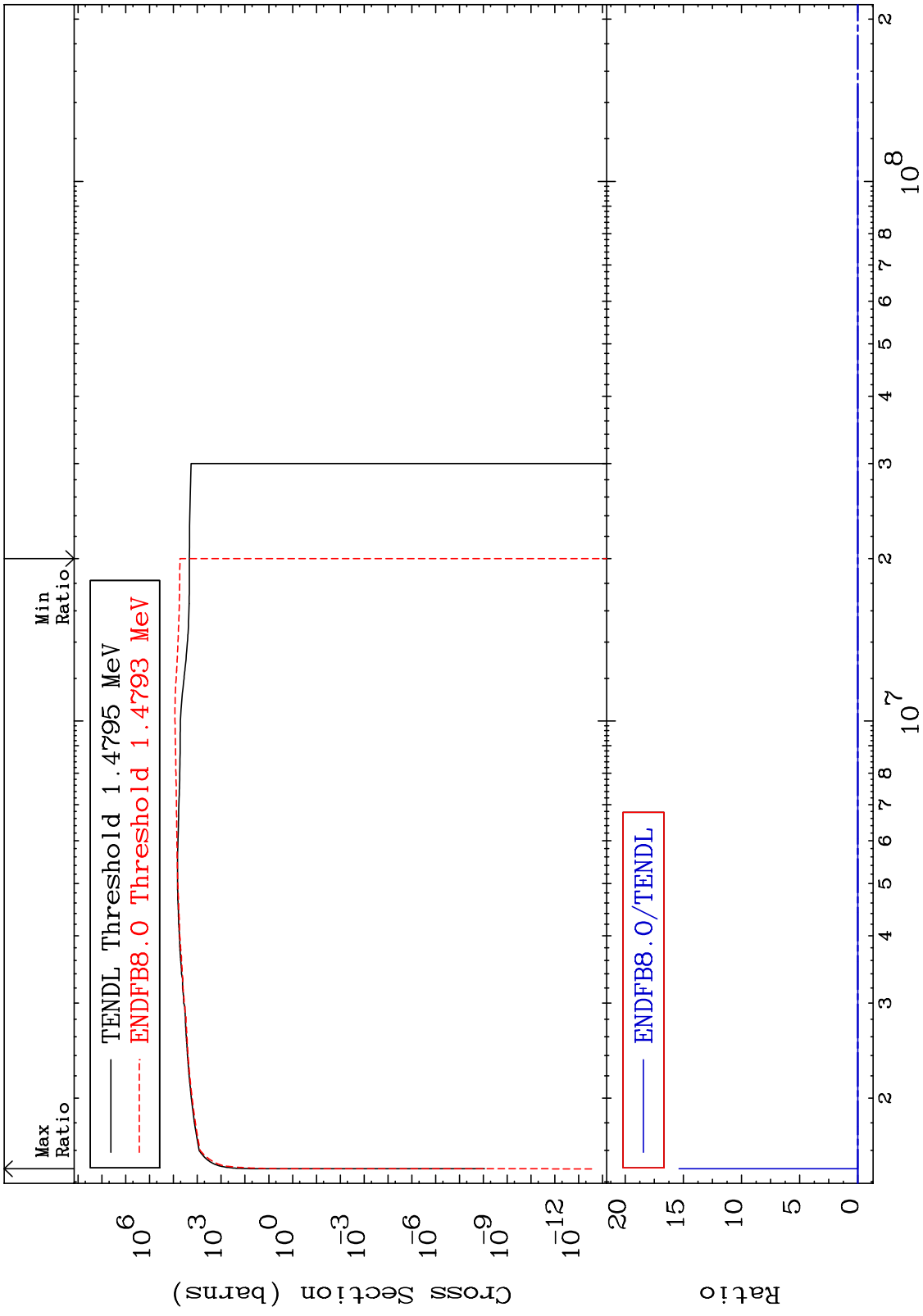
MAT 2825

Dpa elastic (mt2)
Cross Section

28-Ni-58
-99.57 To 6173. %



MAT 2825 Dpa inelastic (mt51-91) 28-Ni-58
 Cross Section -100.0 To 9999. %



60 Incident Energy (eV) 28-Ni-58

MAT 2825 Dpa disappearance (mt102 -120) 28-Ni-58
 Cross Section -100.0 To 9999. %

