

Program Complot
(Version 2018-1)

by

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Press Mouse Button to Start

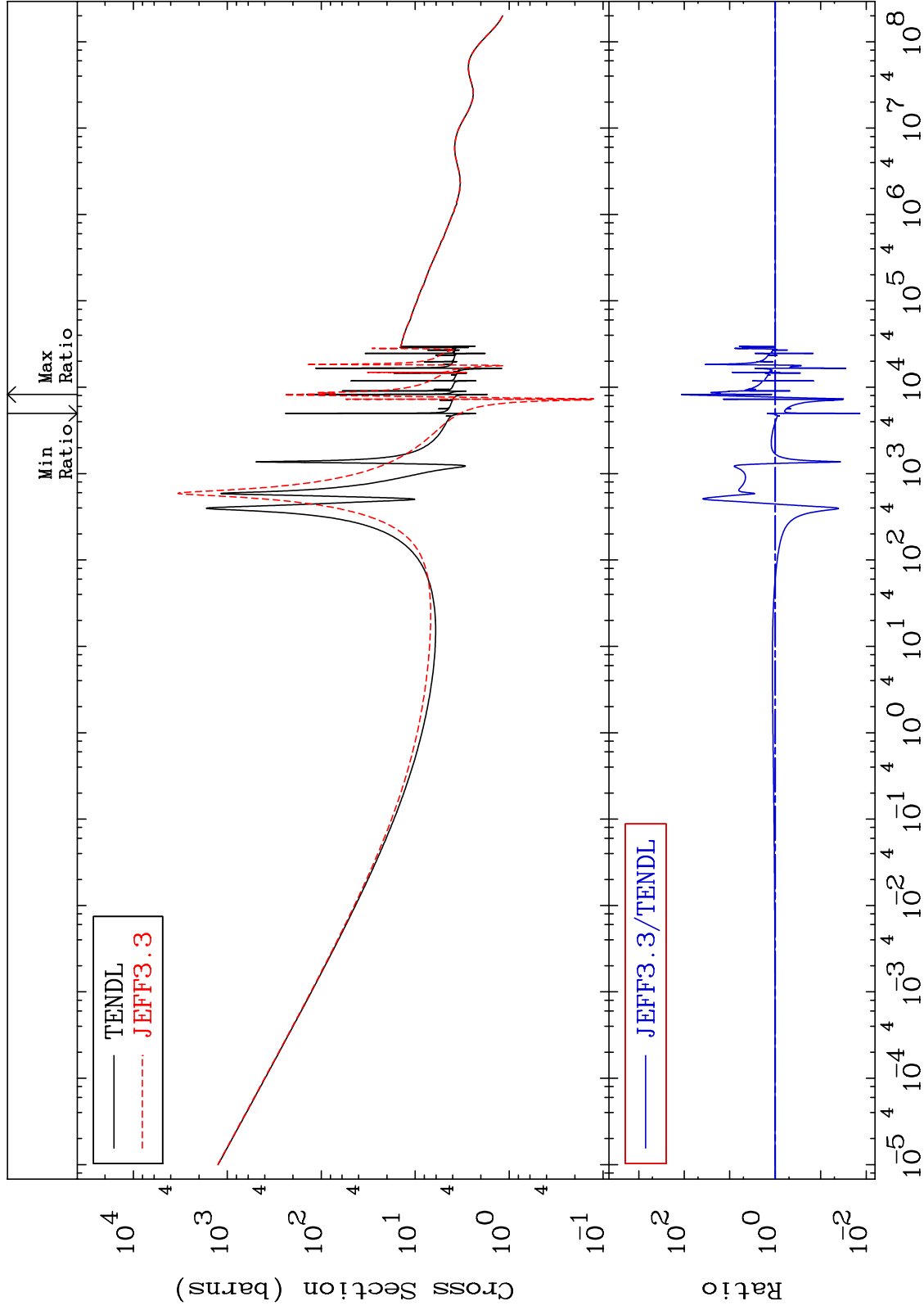
MAT 2840

Total

28-Ni-63

Cross Section

-98.62 To 9999. %



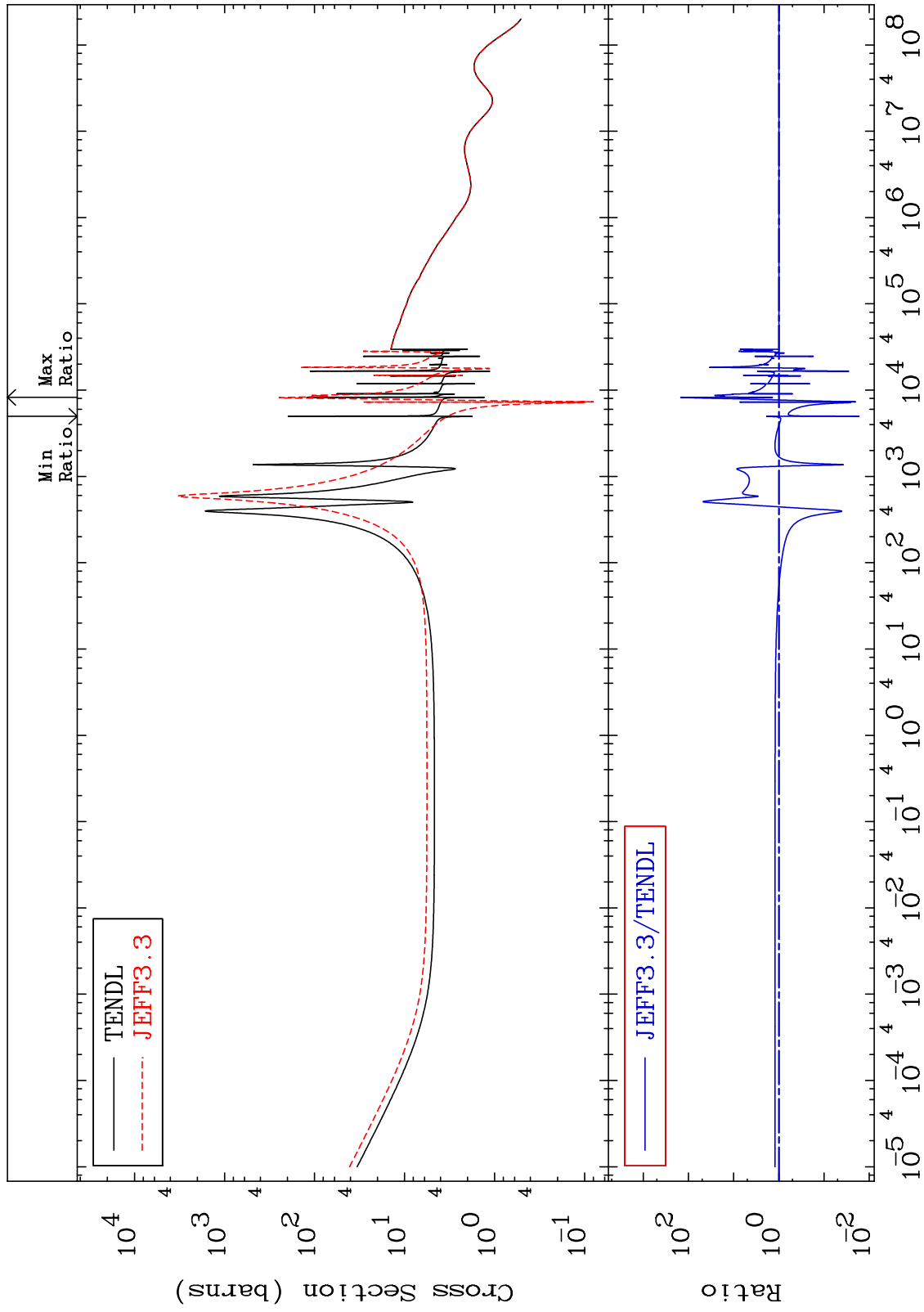
Incident Energy (eV)

28-Ni-63

MAT 2840

Elastic
Cross Section

28-Ni-63
-98.31 To 9999. %

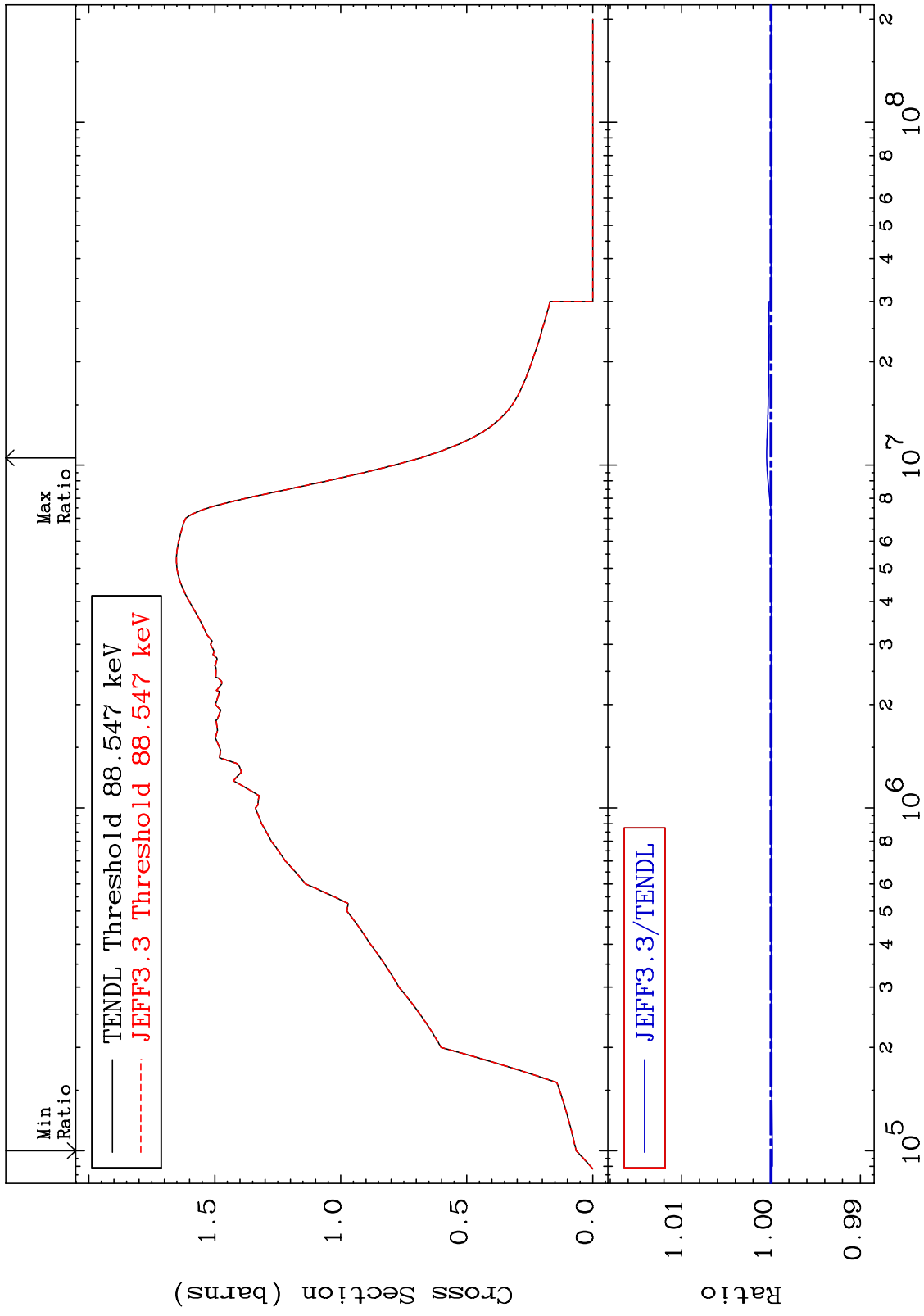


MAT 2840

Inelastic
Cross Section

28-Ni-63

-0.015 To 0.049 %

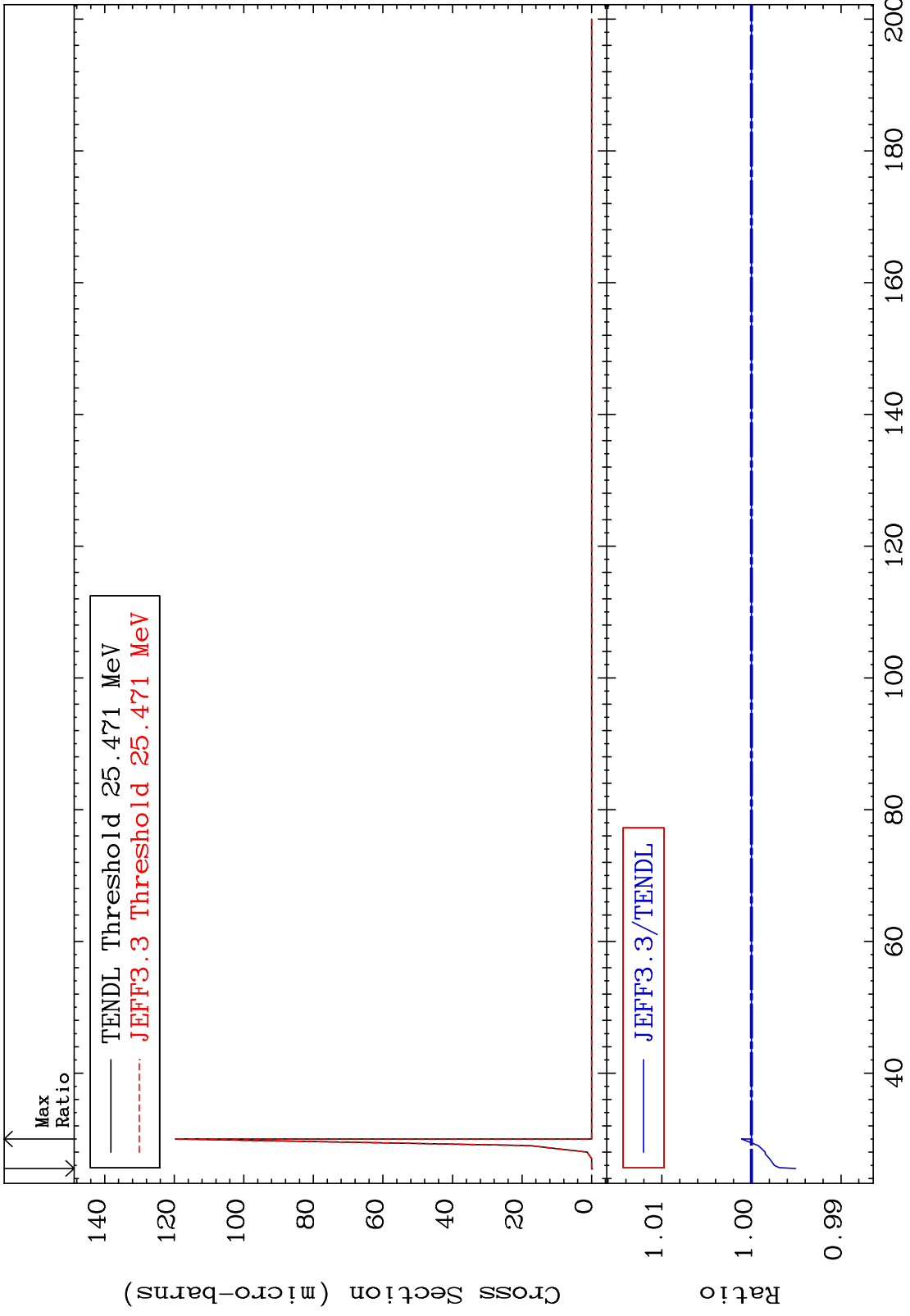


28-Ni-63

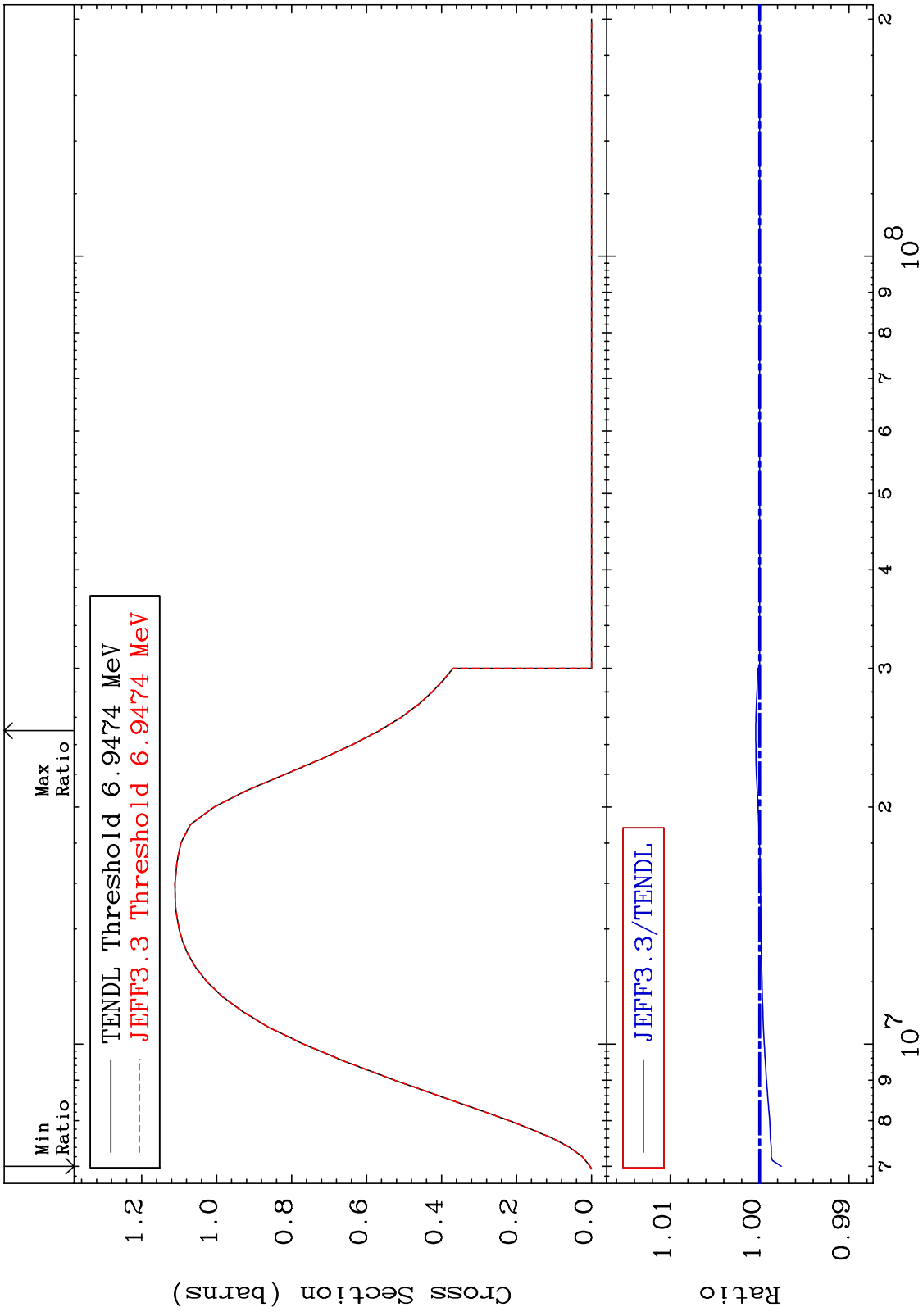
Incident Energy (eV)

3

MAT 2840 (n,2n) d 28-Ni-63
Cross Section -0.493 To 0.110 %

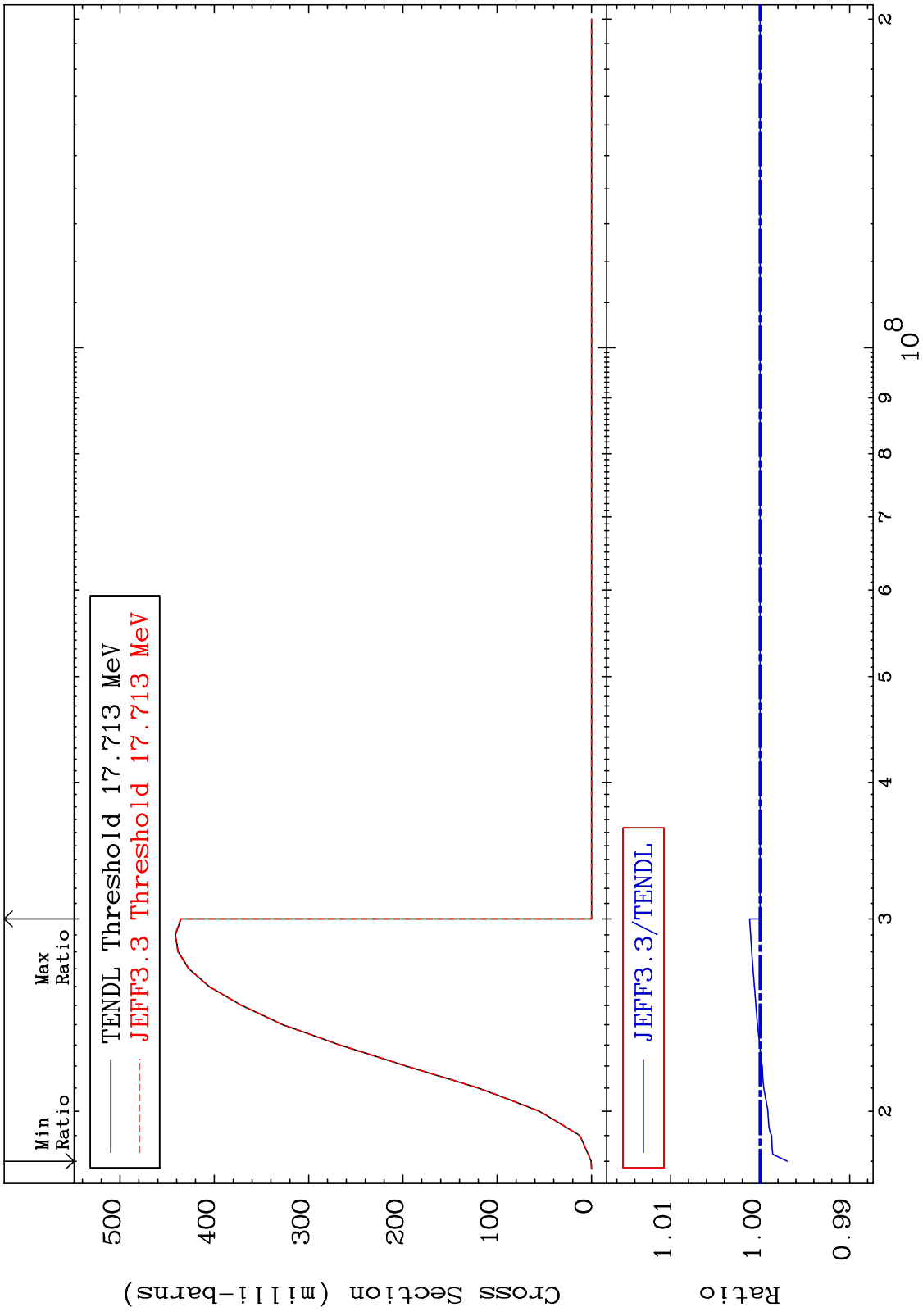


MAT 2840 28-Ni-63
-0.241 To 0.044 %
(n,2n)
Cross Section

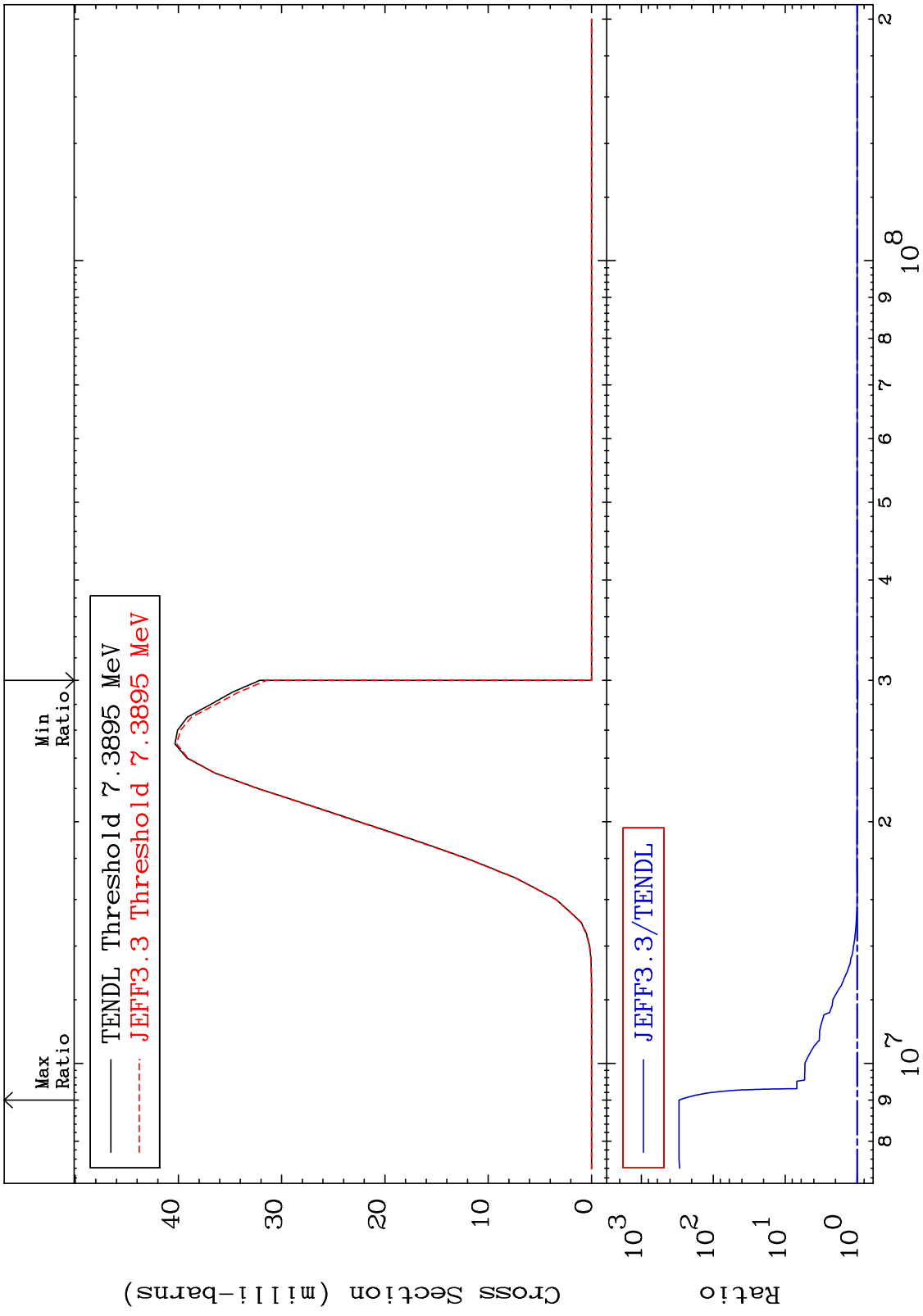


5 Incident Energy (eV) 28-Ni-63

MAT 2840 $(n, 3n)$ Cross Section 28-Ni-63 -0.302 To 0.117 %

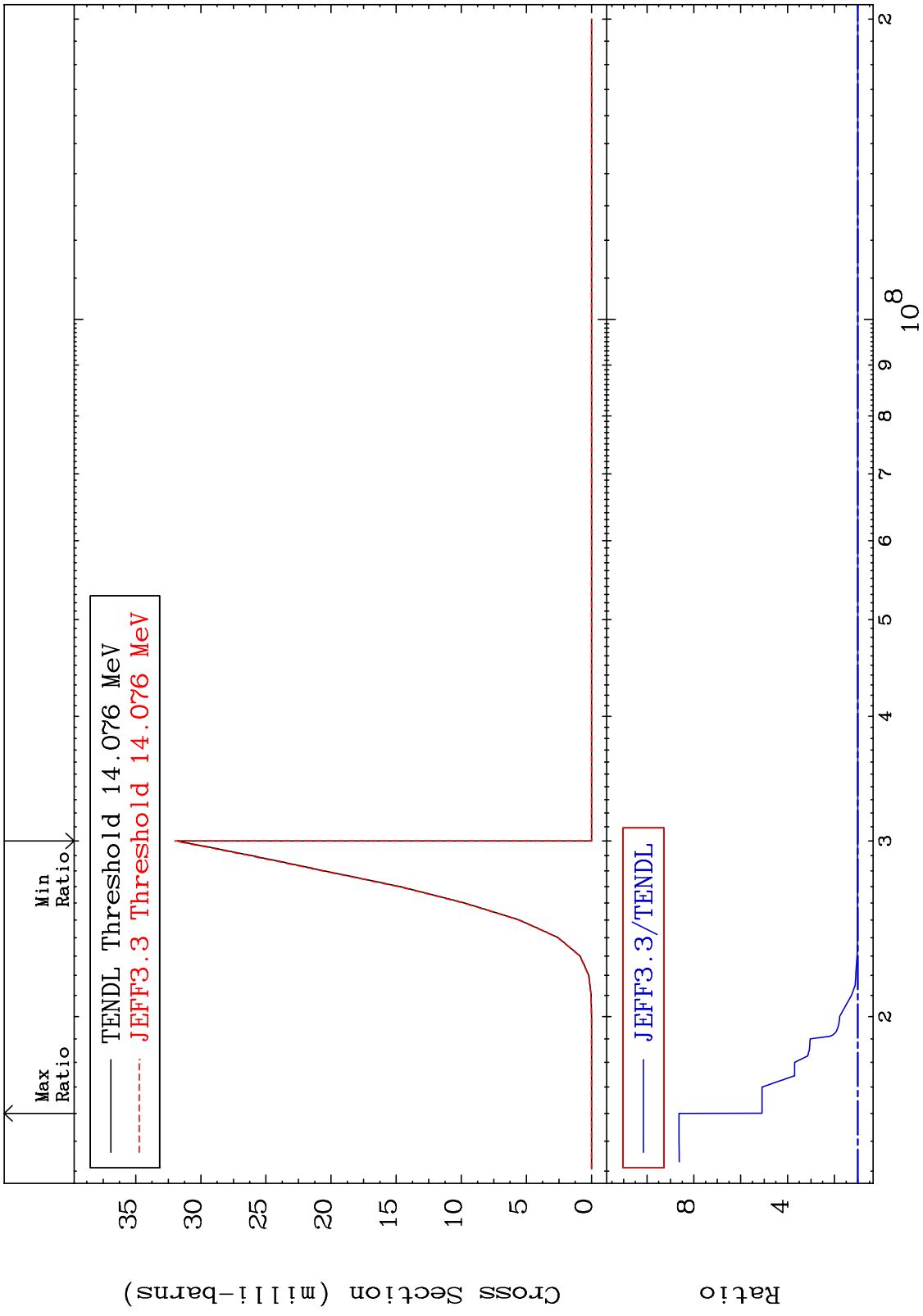


MAT 2840 $(n, n') \alpha$ Cross Section 28-Ni-63 -2.109 To 9999. %

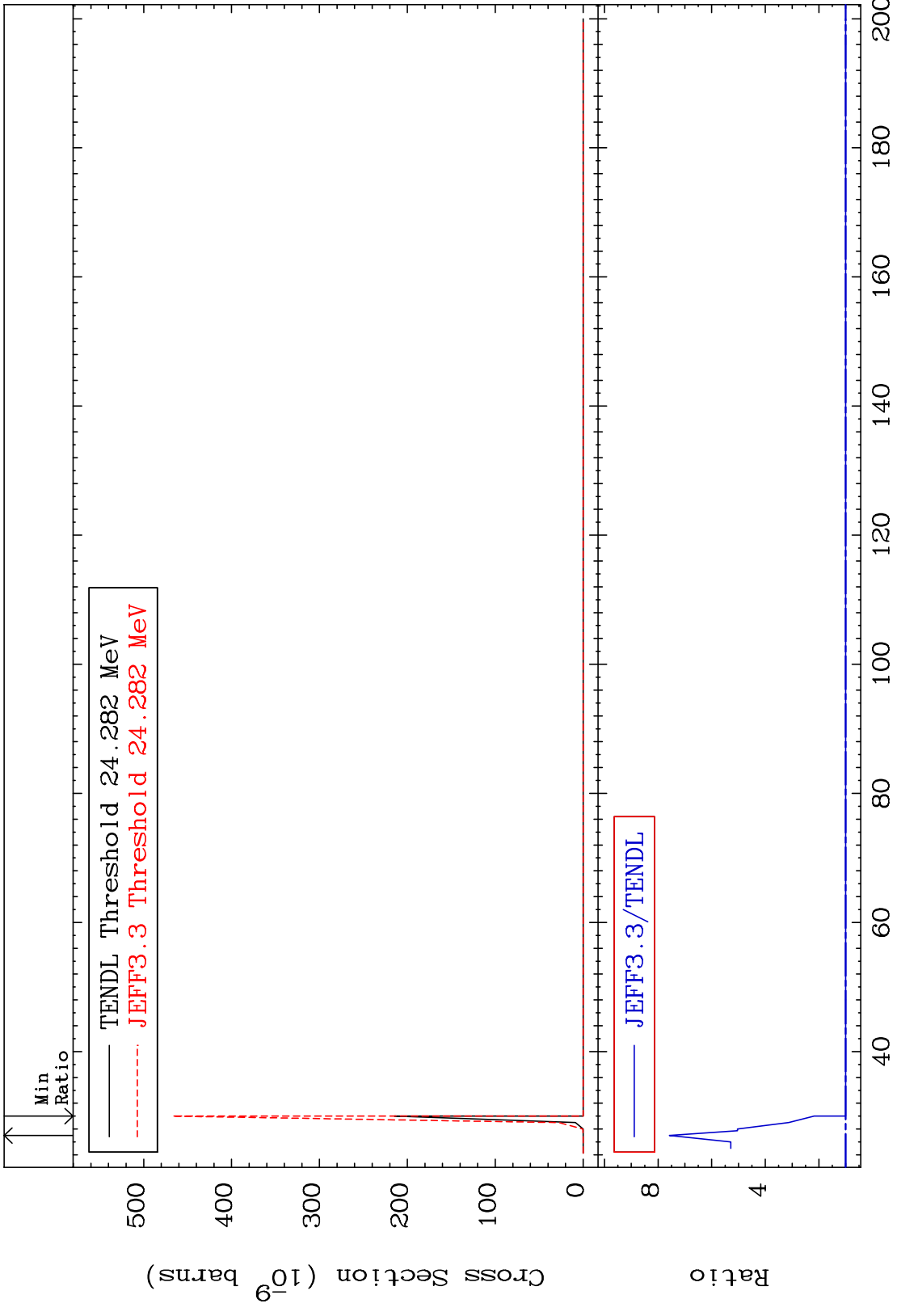


7 Incident Energy (eV) 28-Ni-63

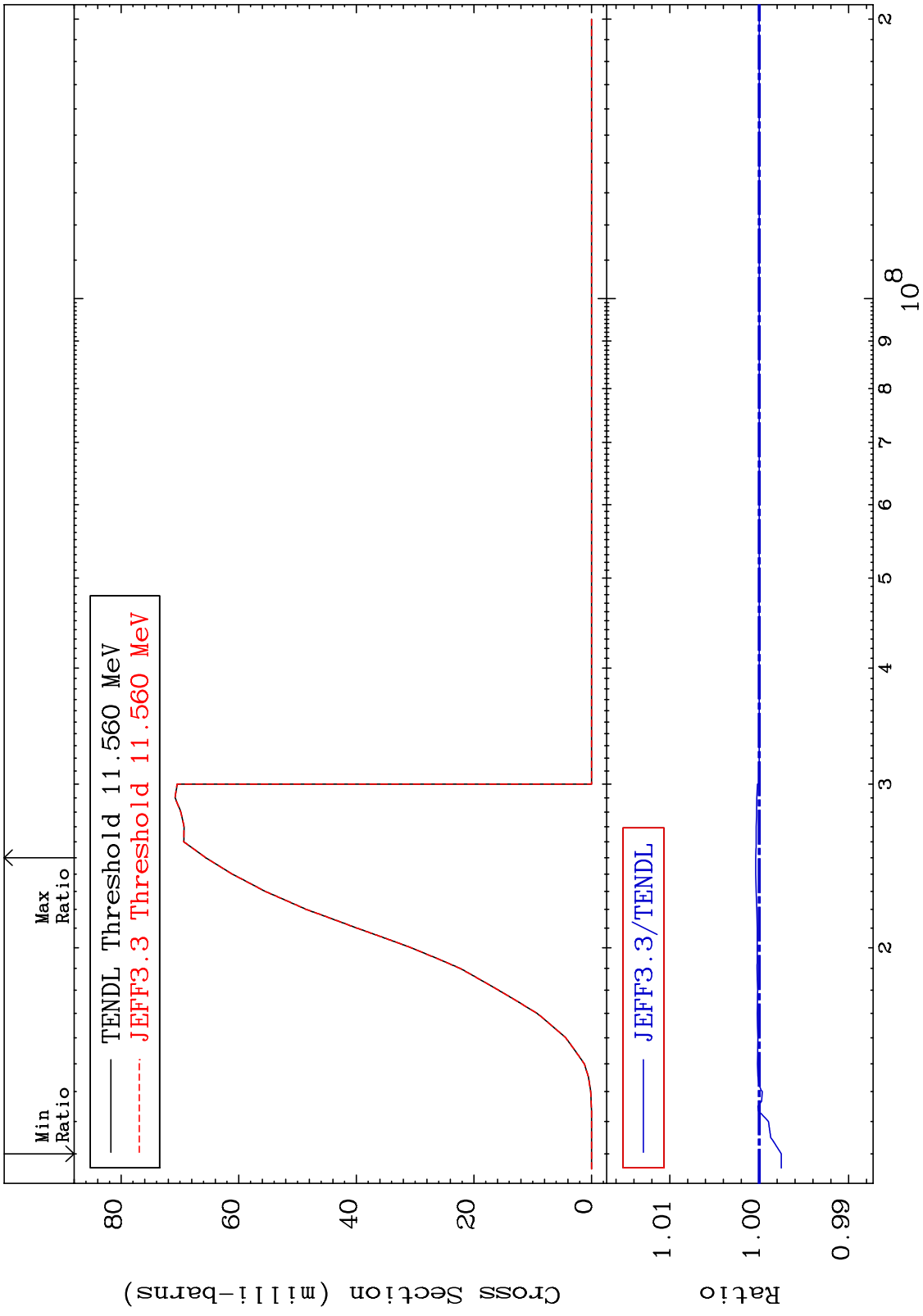
MAT 2840 $(n, 2n) \alpha$ $^{28}\text{Ni-63}$
 Cross Section 0.000 To 763.3 %



MAT 2840 (n,3n) α 28-Ni-63
Cross Section 0.000 To 657.7 %

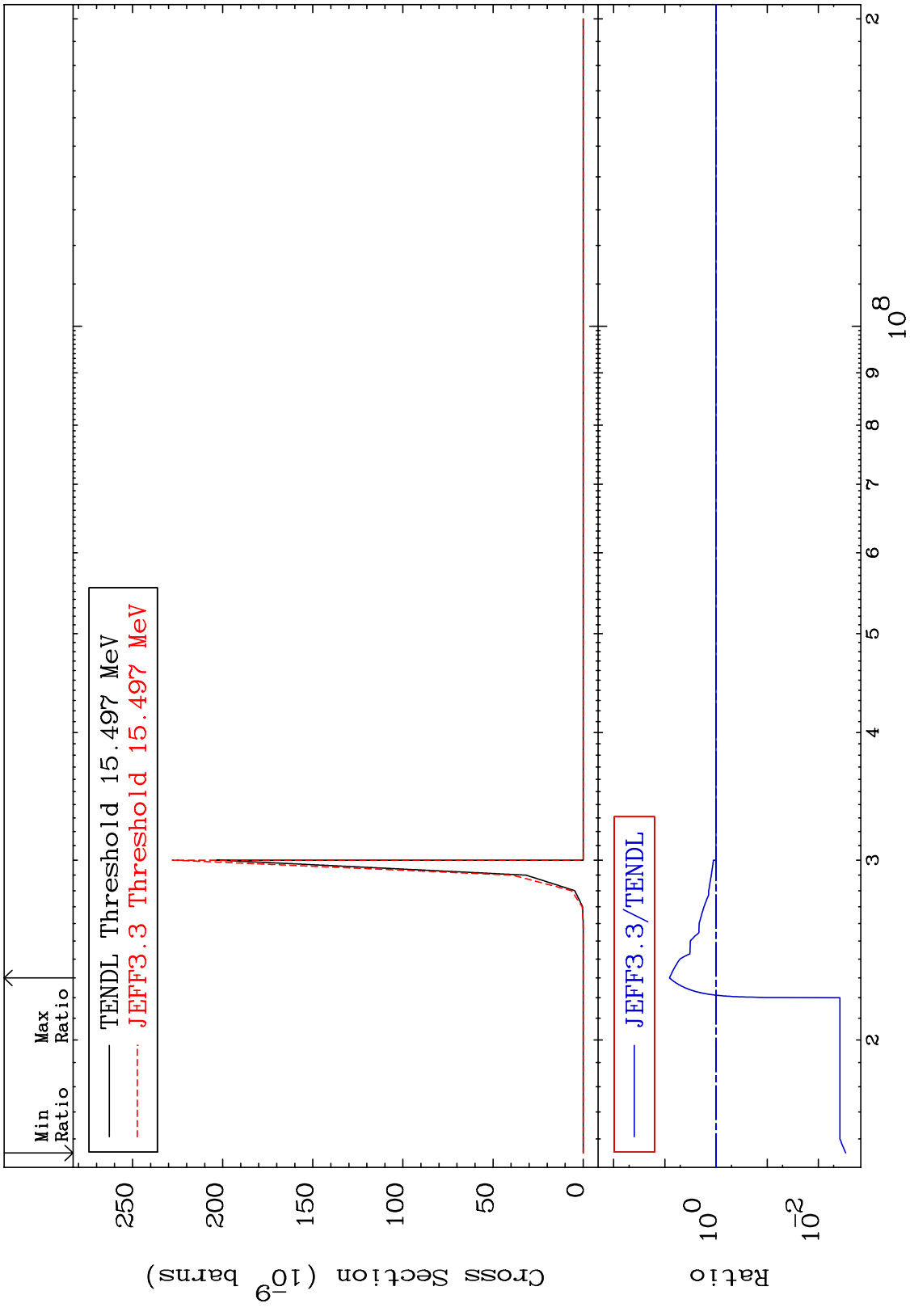


MAT 2840 (n, n') p $^{28}\text{Ni-63}$
 Cross Section -0.246 To 0.040 %

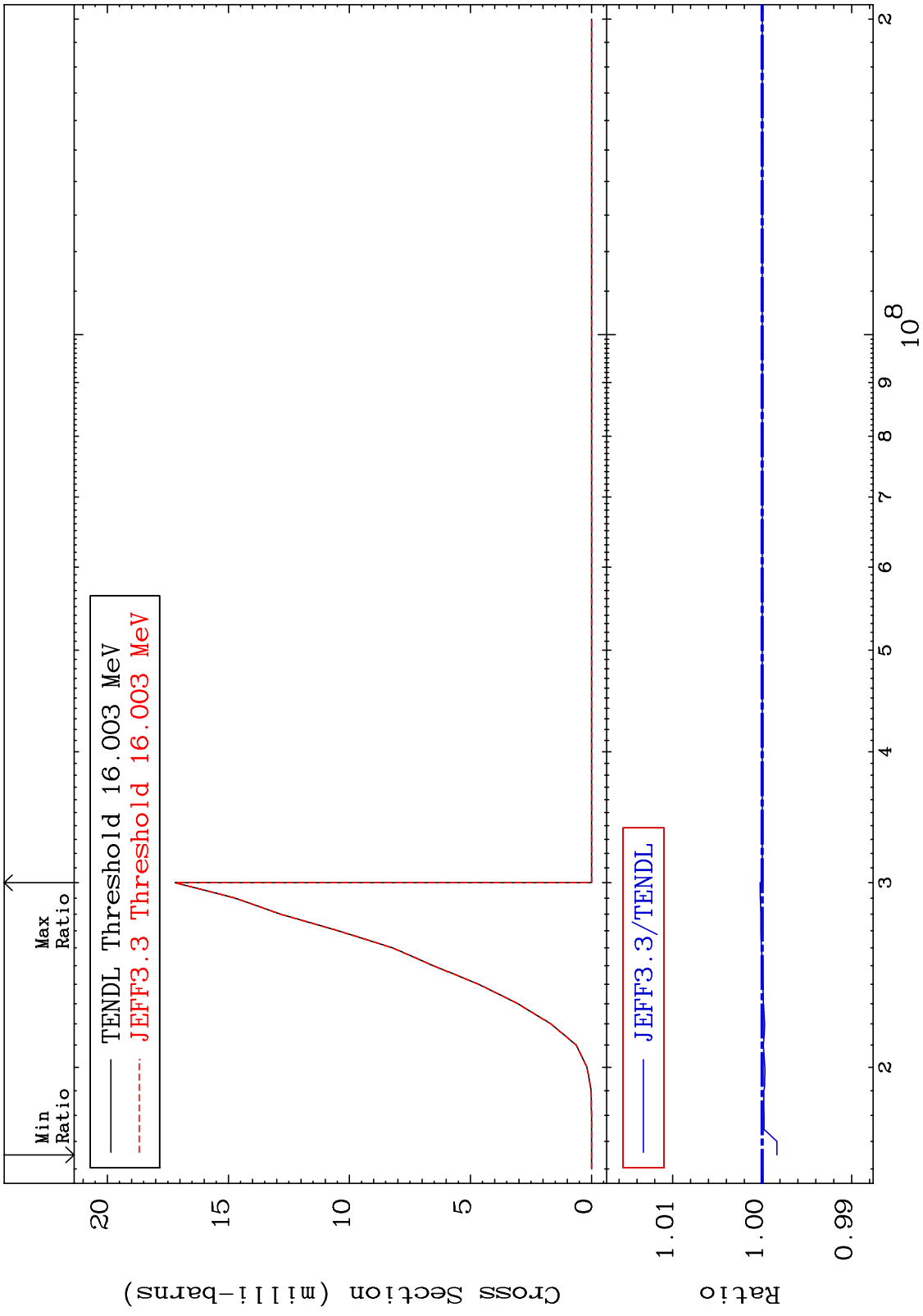


10 $^{28}\text{Ni-63}$

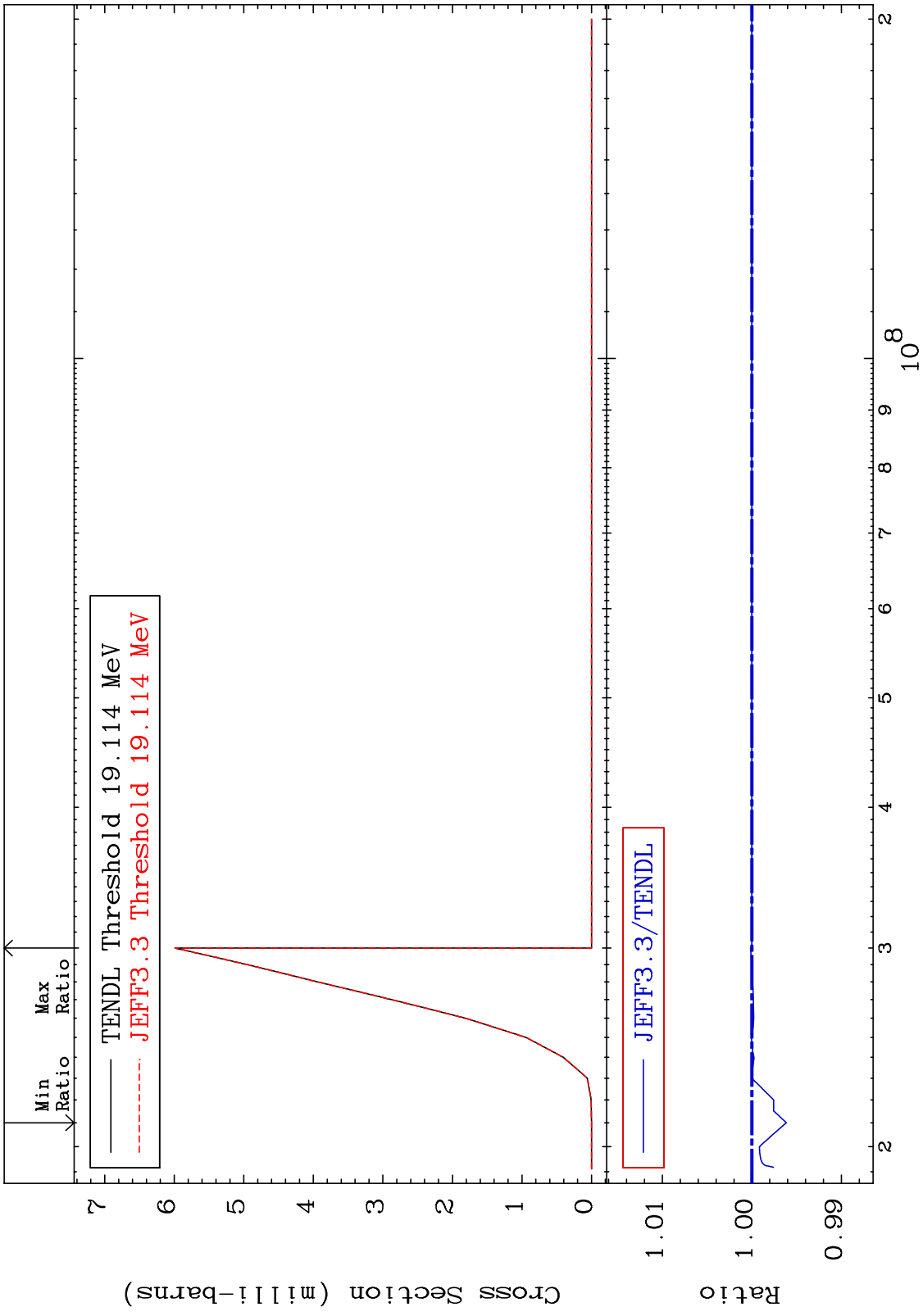
MAT 2840 (n,n') 2α Cross Section 28-Ni-63 -99.71 To 711.9 %



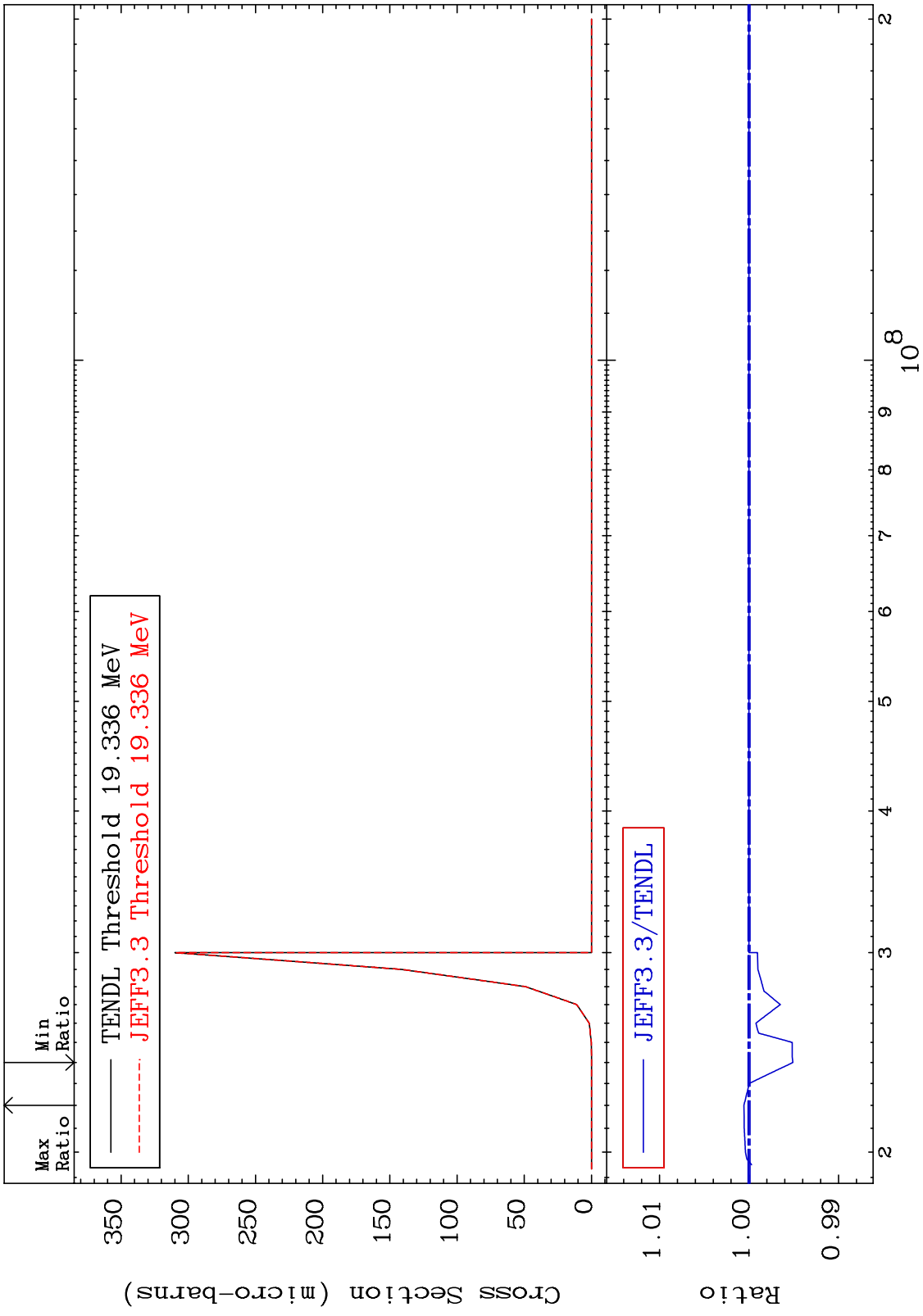
MAT 2840 (n,n') d 28-Ni-63
 Cross Section -0.164 To 0.023 %



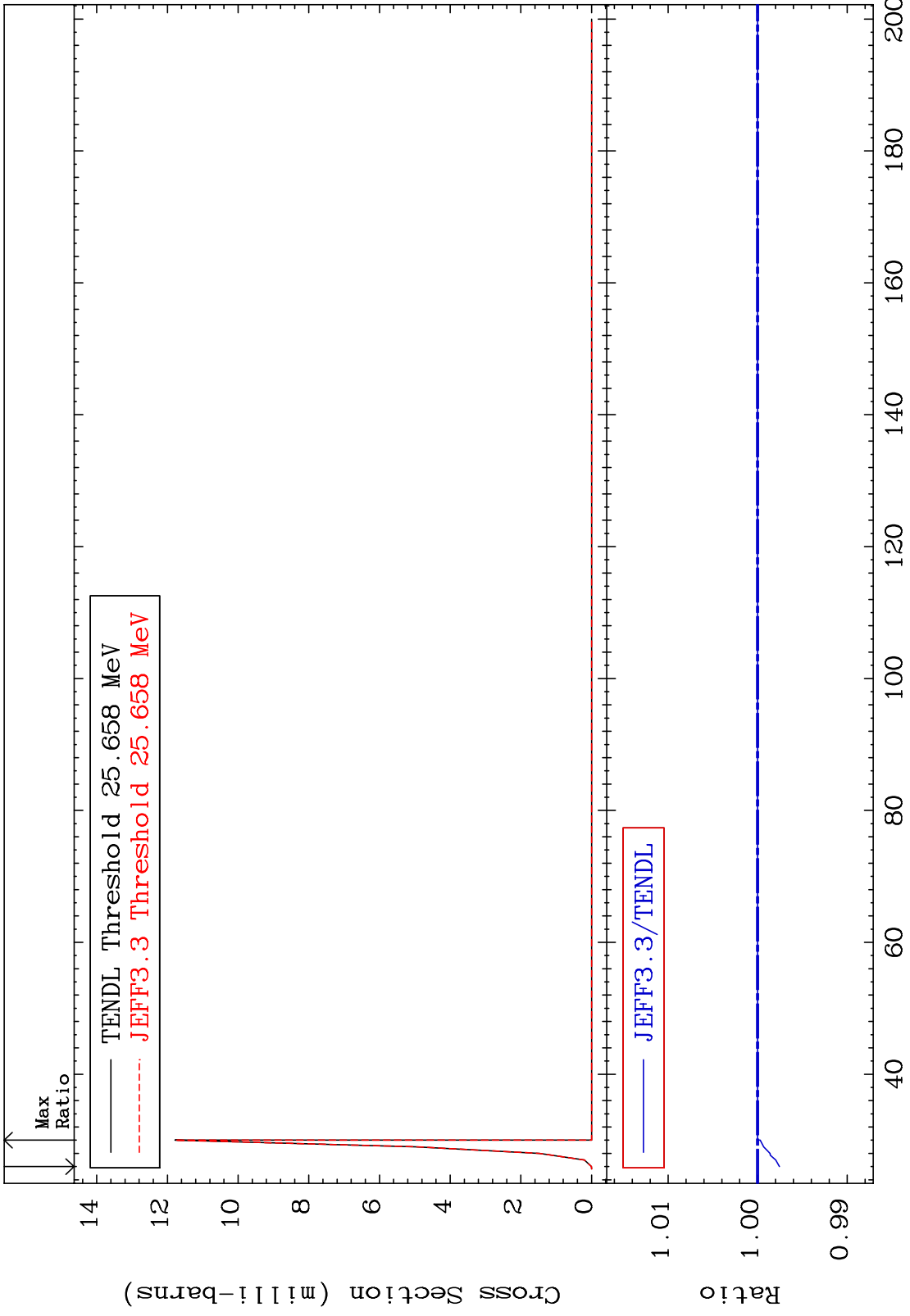
MAT 2840 (n,n') t 28-Ni-63
 Cross Section -0.385 To 0.015 %



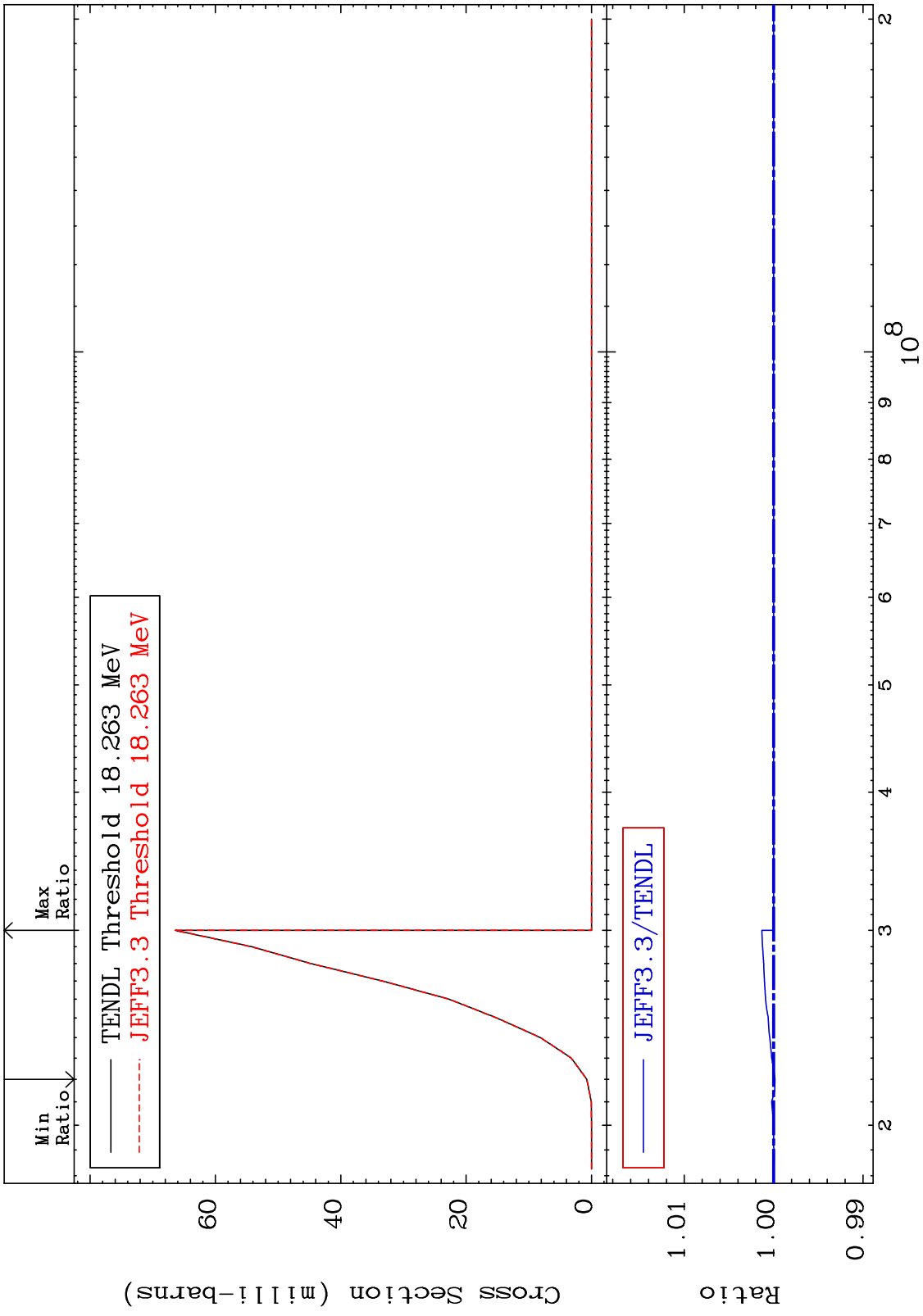
MAT 2840 (n, n') He-3 28-Ni-63
 Cross Section -0.490 To 0.057 %



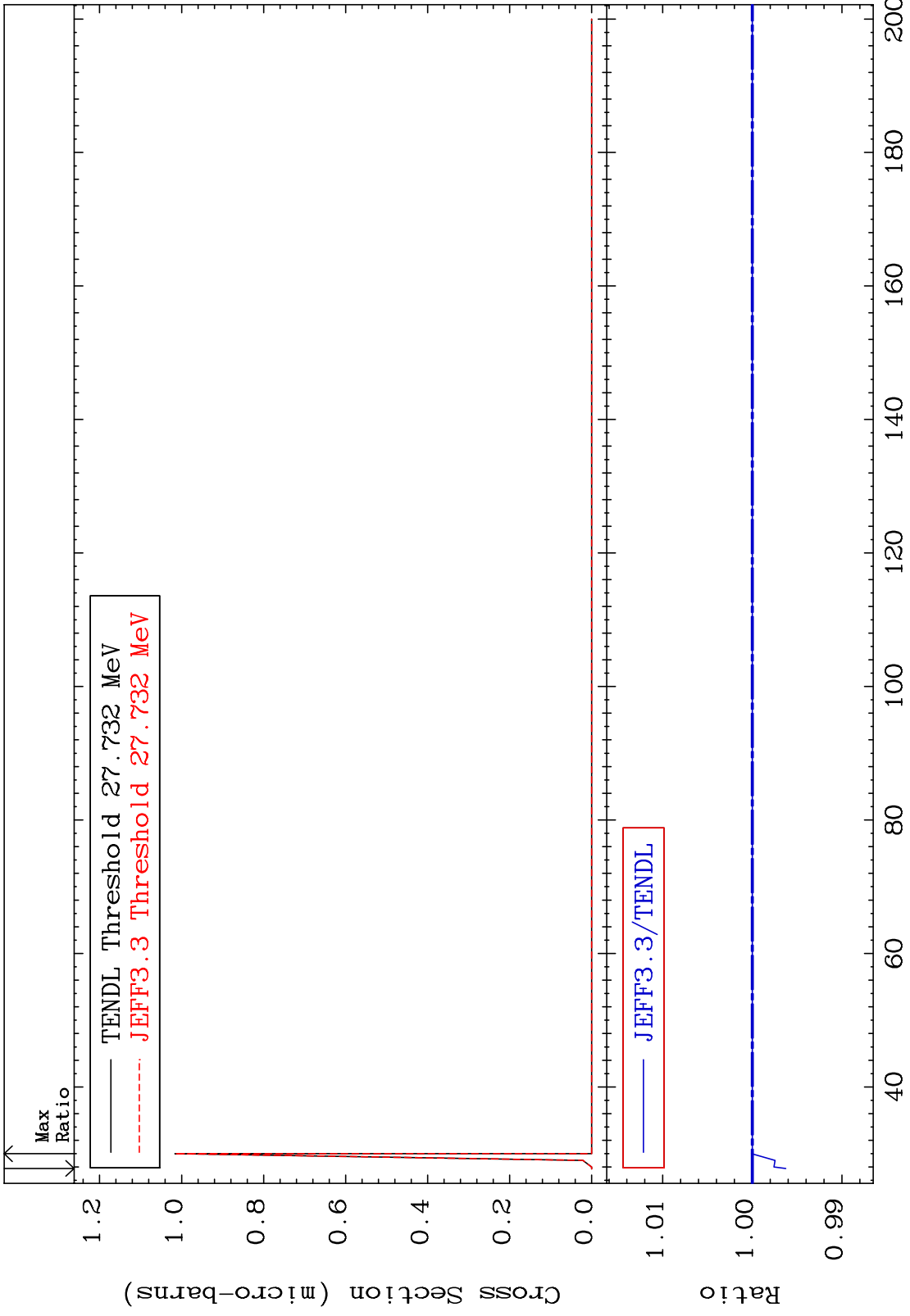
MAT 2840 (n,4n) 28-Ni-63
 Cross Section -0.244 To 0.000 %



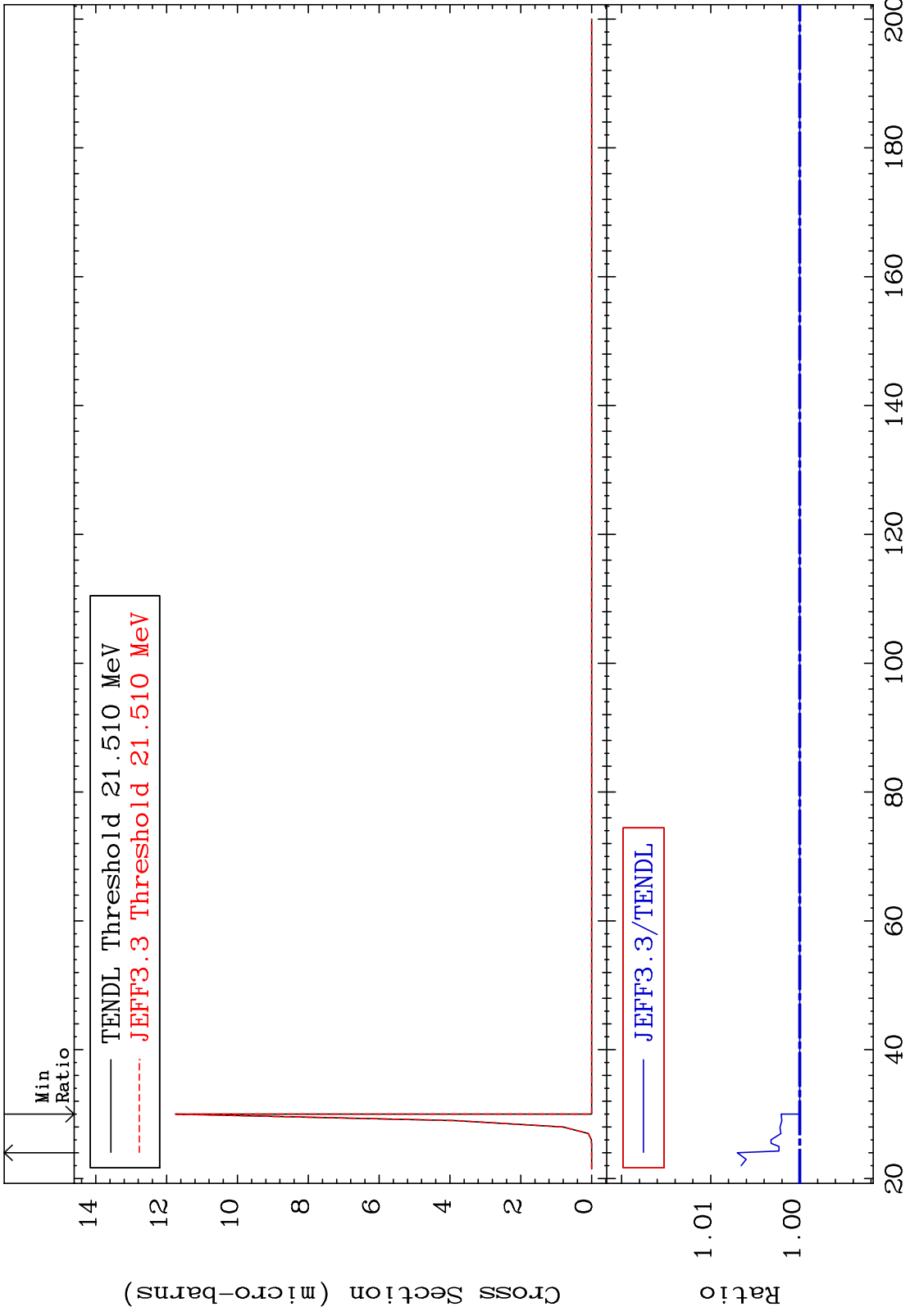
MAT 2840 (n,2n) p 28-Ni-63
 Cross Section -0.015 To 0.132 %



MAT 2840 (n,3n) p 28-Ni-63
 Cross Section -0.372 To 0.010 %

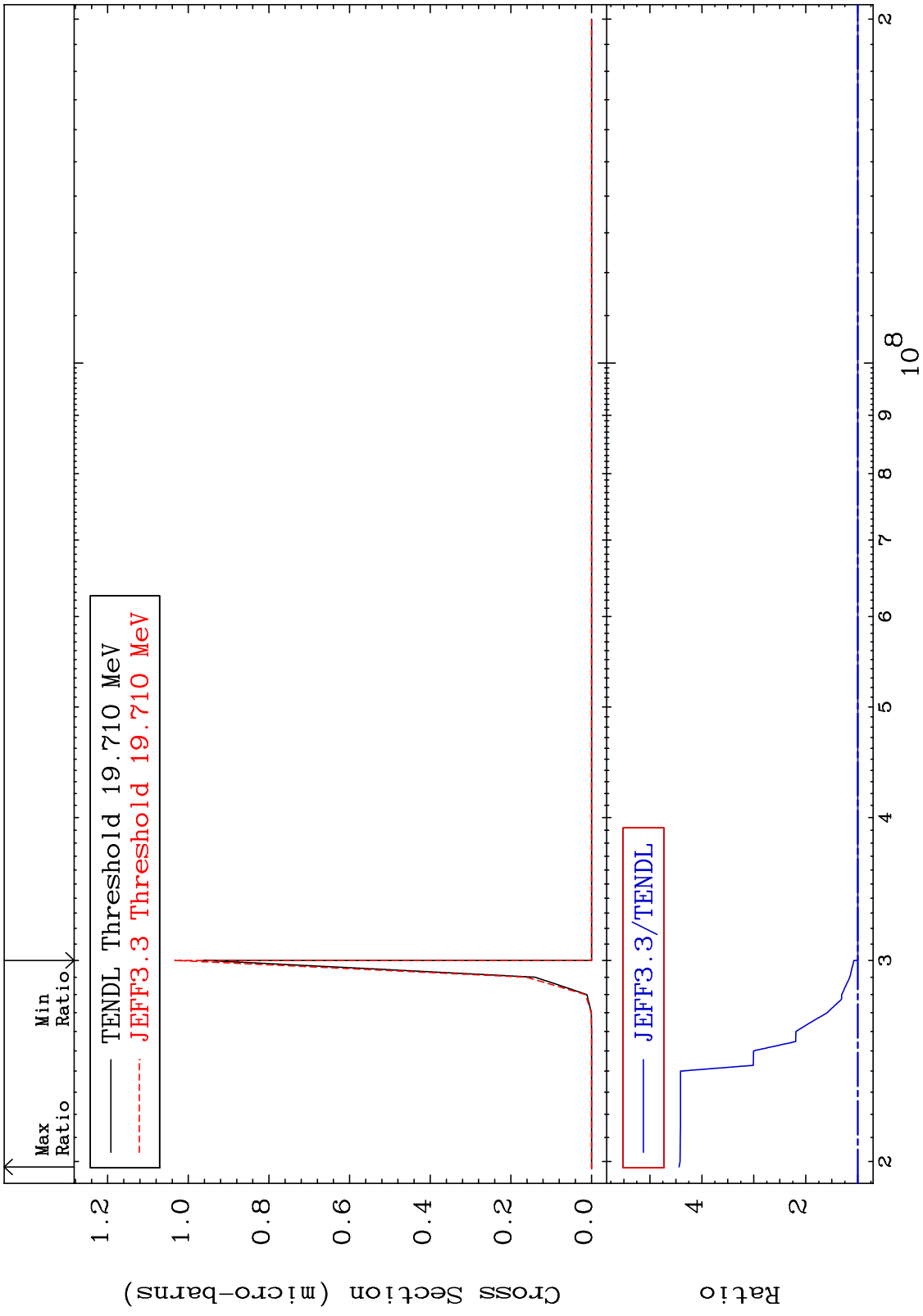


MAT 2840 (n,2n) p 28-Ni-63
Cross Section 0.000 To 0.701 %

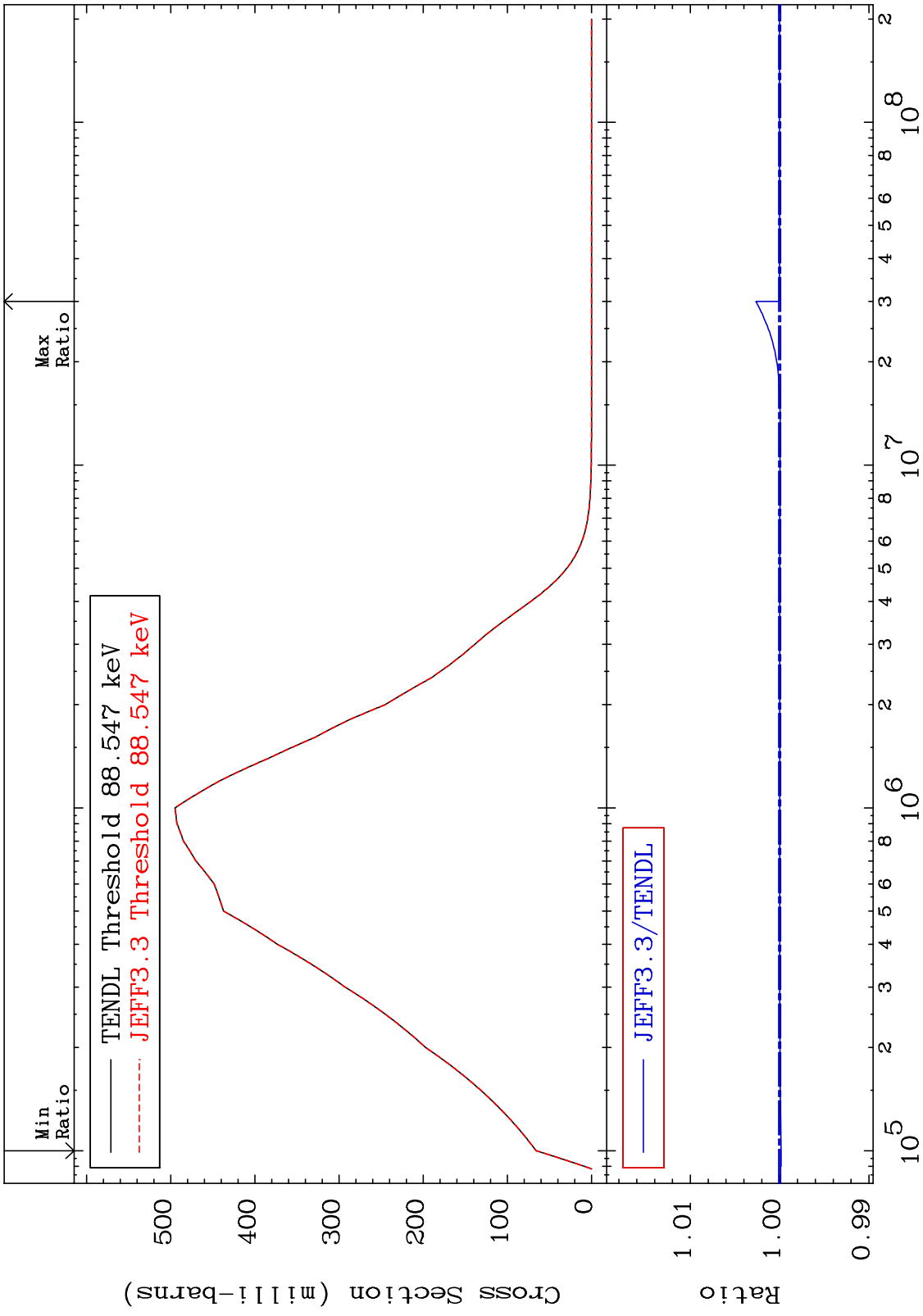


18 28-Ni-63

MAT 2840 (n,n') p α Cross Section 28-Ni-63 To 343.8 %

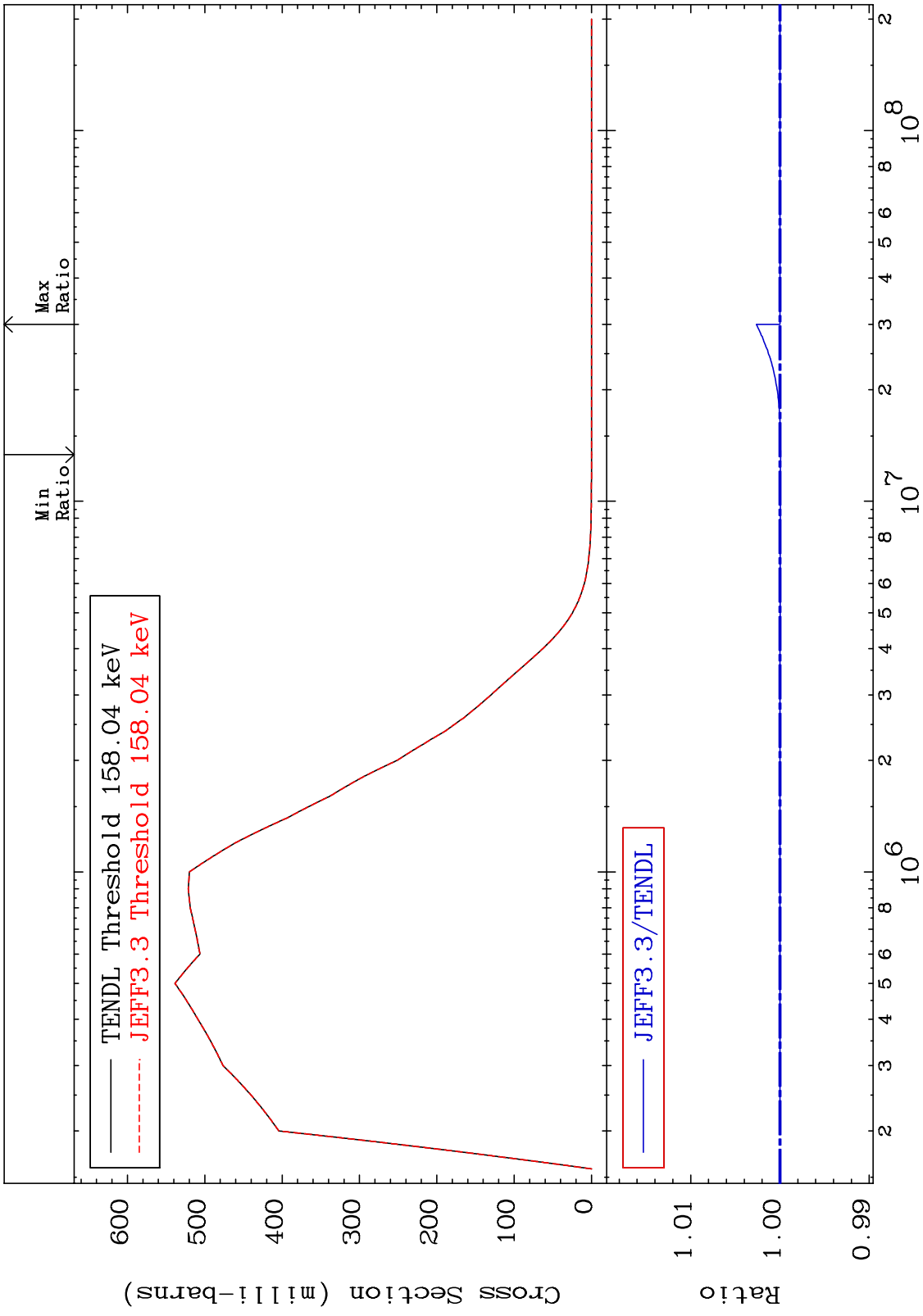


MAT 2840 MT= 51 (n,n') Level Cross Section 28-Ni-63
 -0.015 To 0.266 %

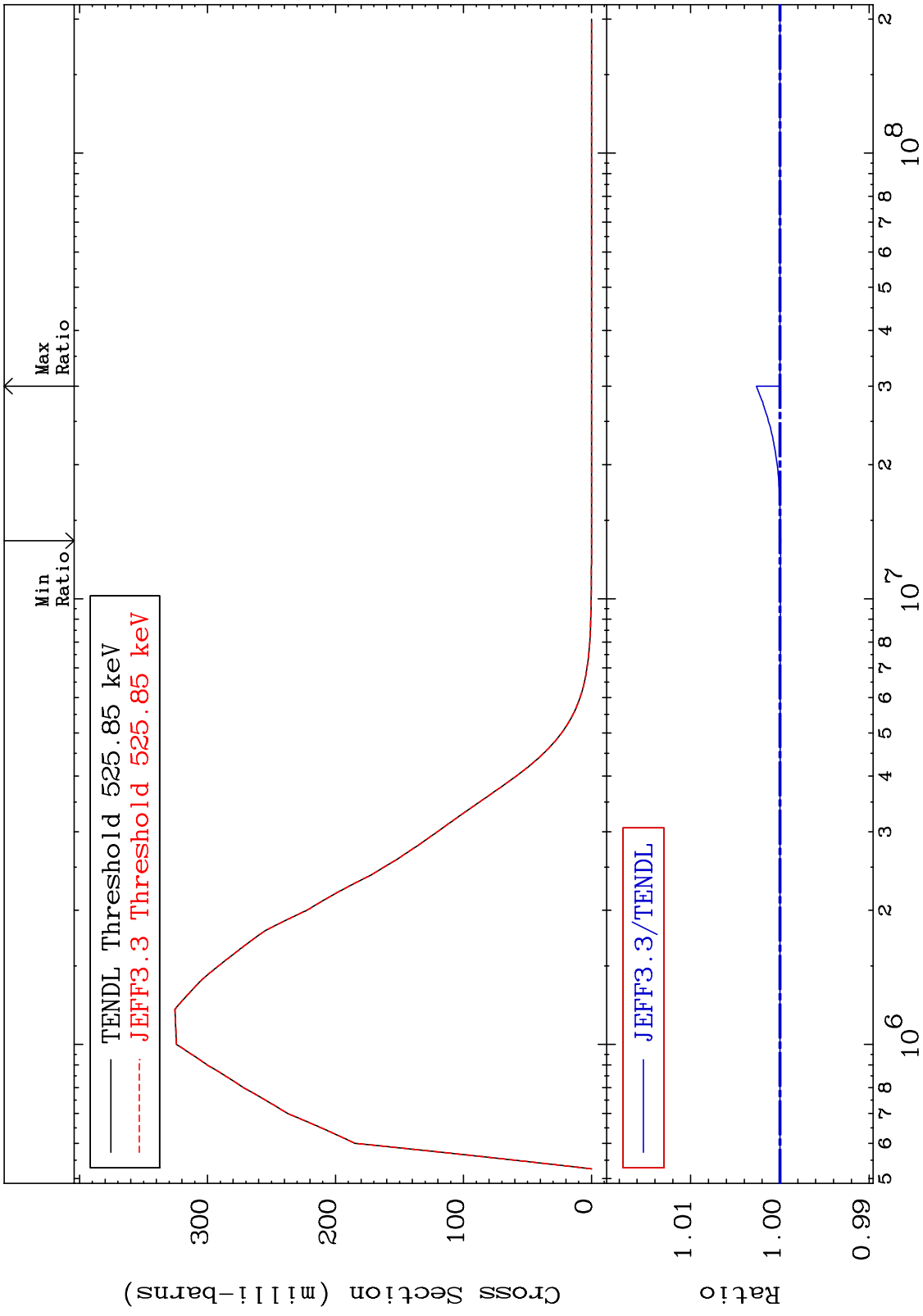


20 Incident Energy (eV) 28-Ni-63

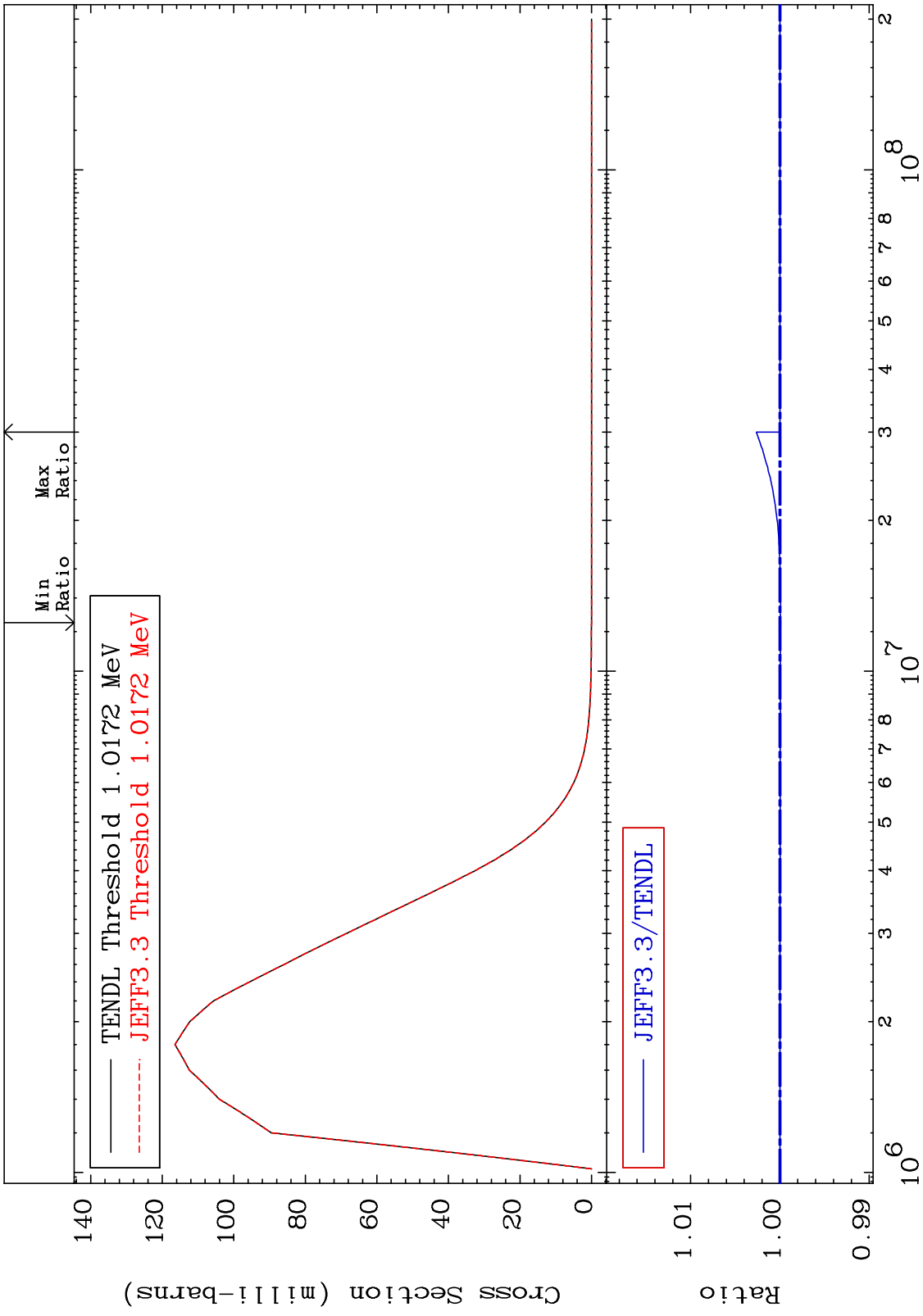
MAT 2840 MT= 52 (n,n') Level Cross Section 28-Ni-63
 -0.007 To 0.265 %



MAT 2840 MT= 53 (n, n') Level Cross Section 28-Ni-63 -0.007 To 0.264 %

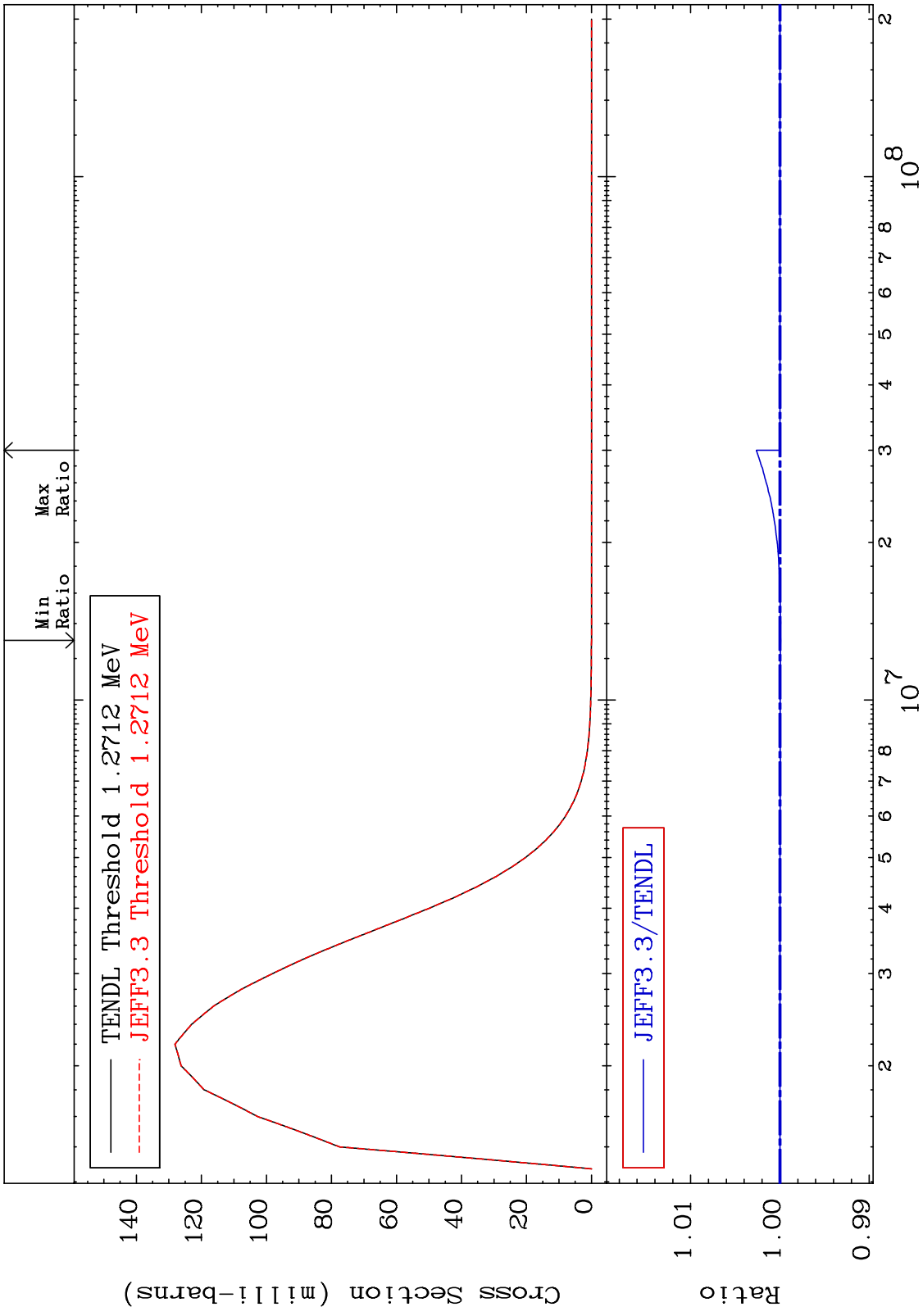


MAT 2840 MT= 54 (n,n') Level Cross Section 28-Ni-63
 -0.007 To 0.264 %

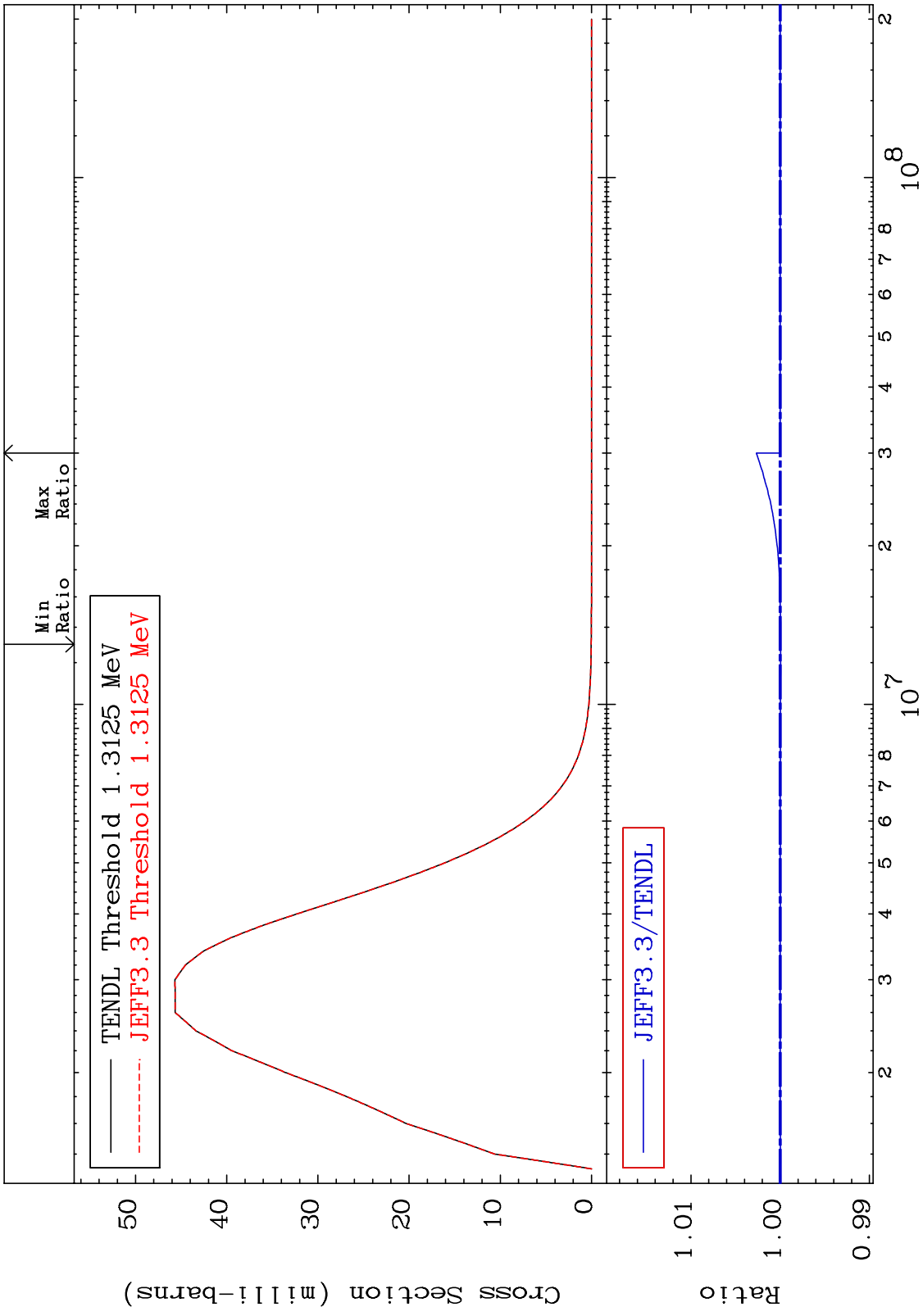


23 Incident Energy (eV) 28-Ni-63

MAT 2840 MT= 56 (n,n') Level Cross Section 28-Ni-63
 -0.007 To 0.264 %

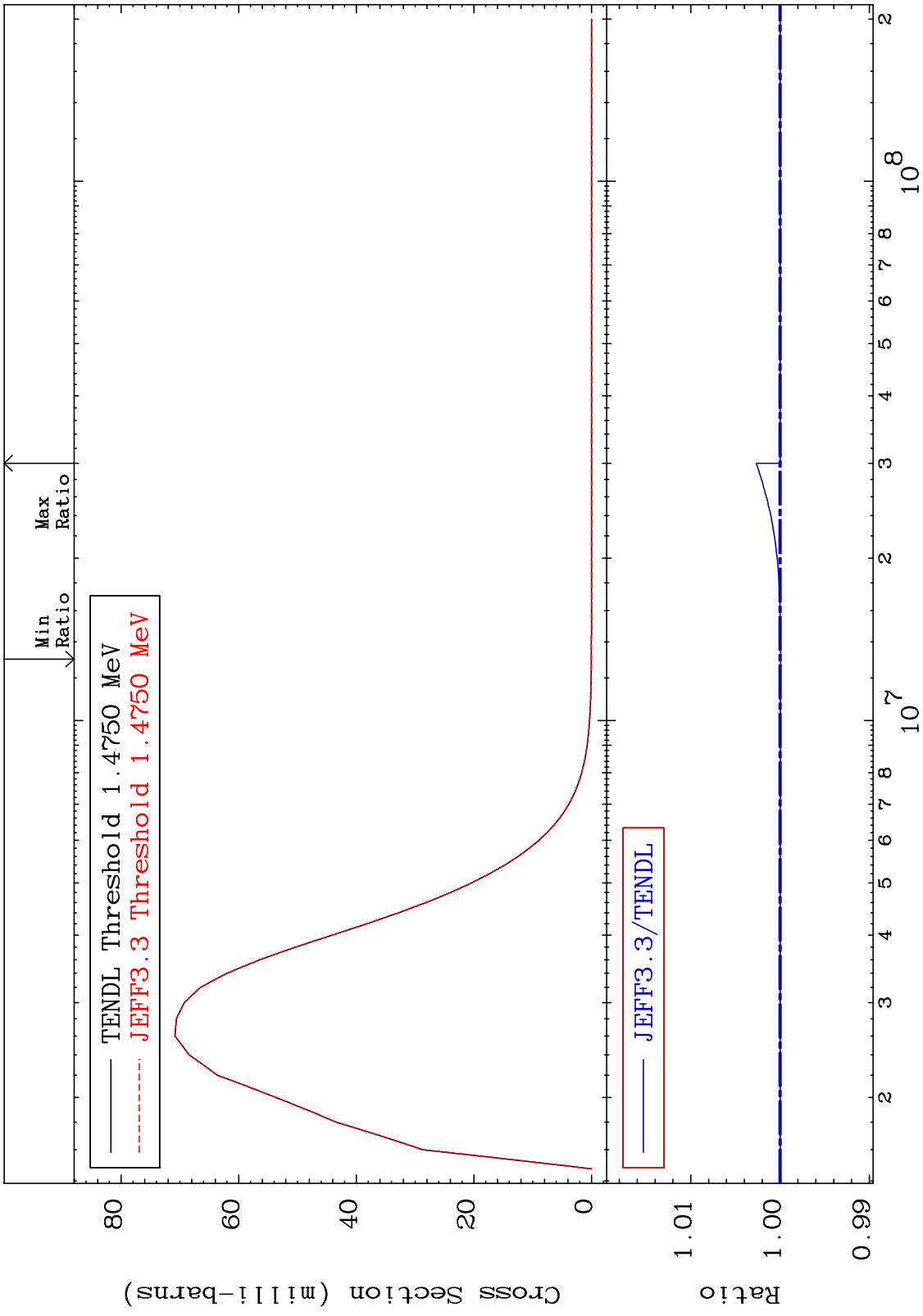


MAT 2840 MT= 57 (n,n') Level Cross Section 28-Ni-63
 -0.005 To 0.268 %

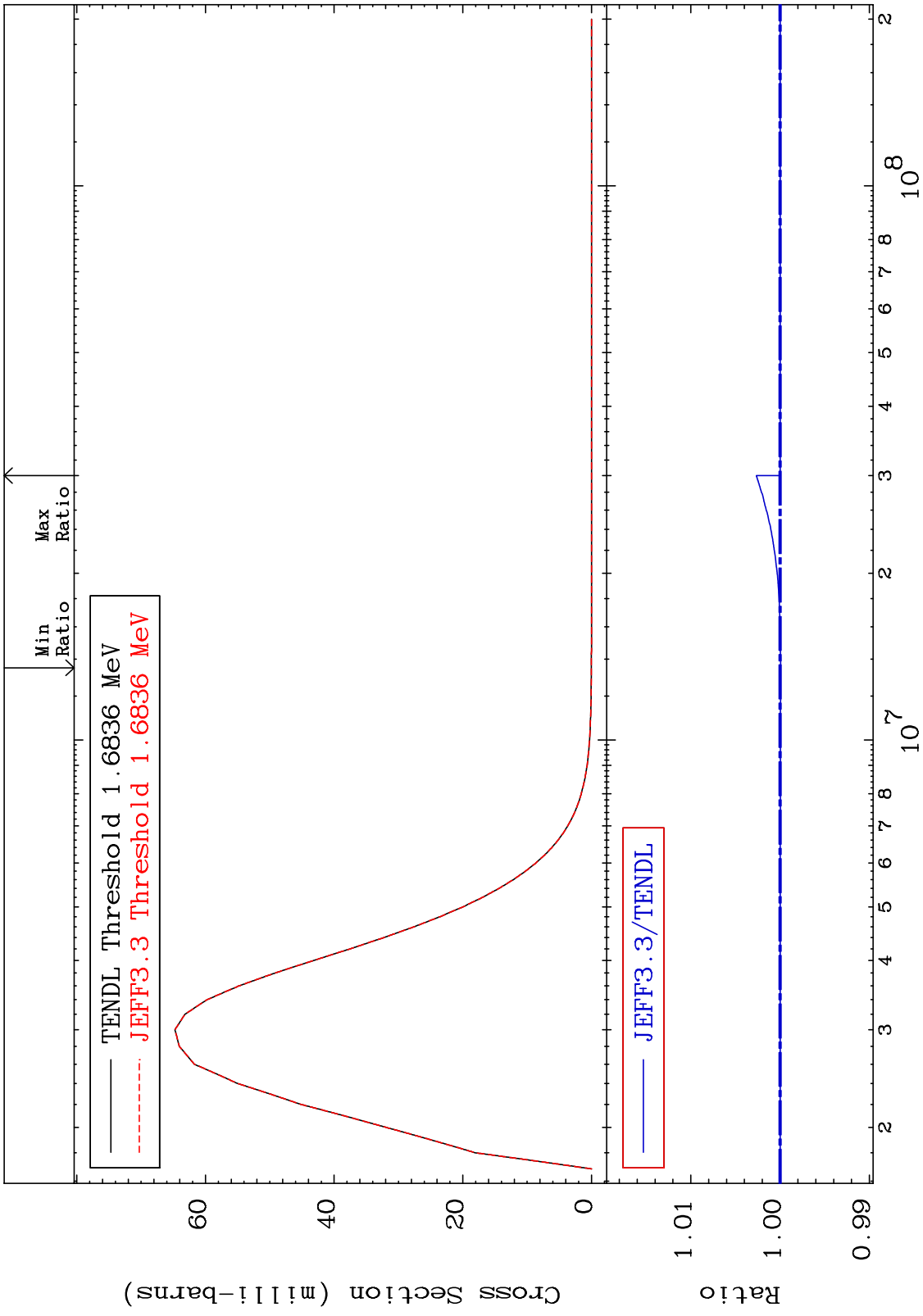


25 Incident Energy (eV) 28-Ni-63

MAT 2840 MT= 59 (n,n') Level Cross Section -0.006 To 0.266 % 28-Ni-63

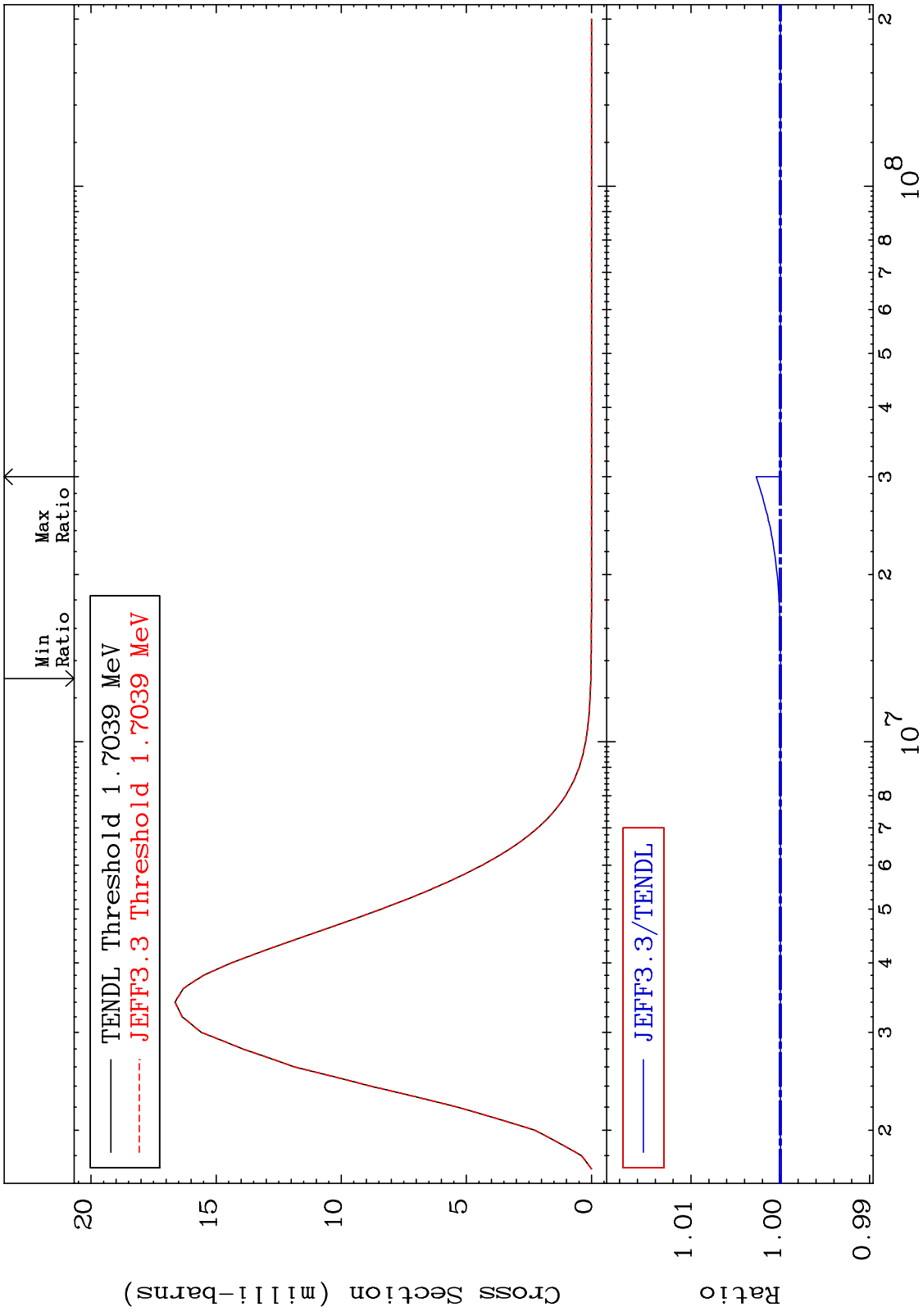


MAT 2840 MT= 60 (n,n') Level Cross Section 28-Ni-63 -0.005 To 0.266 %



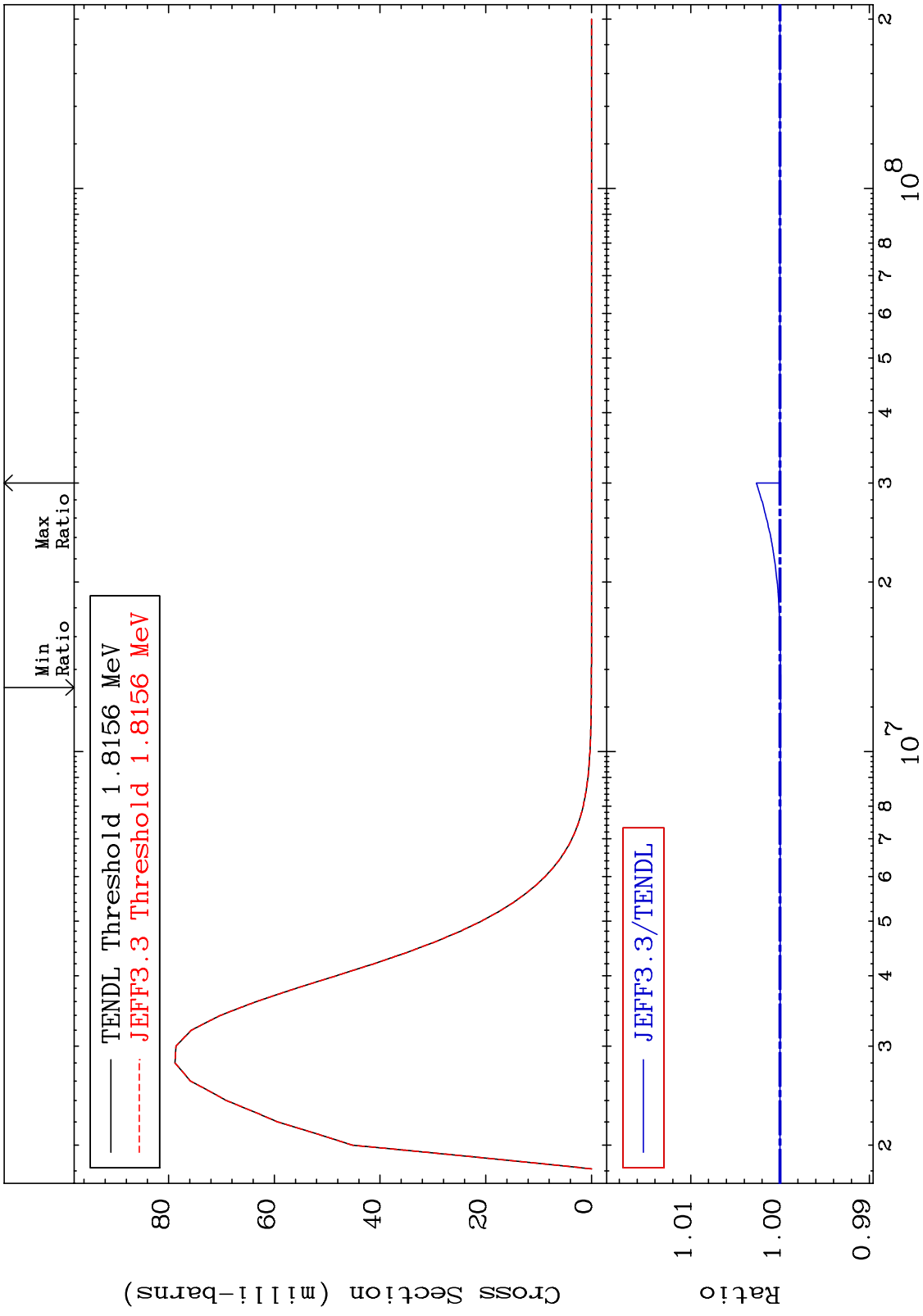
27 28-Ni-63 Incident Energy (eV)

MAT 2840 MT= 61 (n,n') Level Cross Section -0.004 To 0.270 % 28-Ni-63



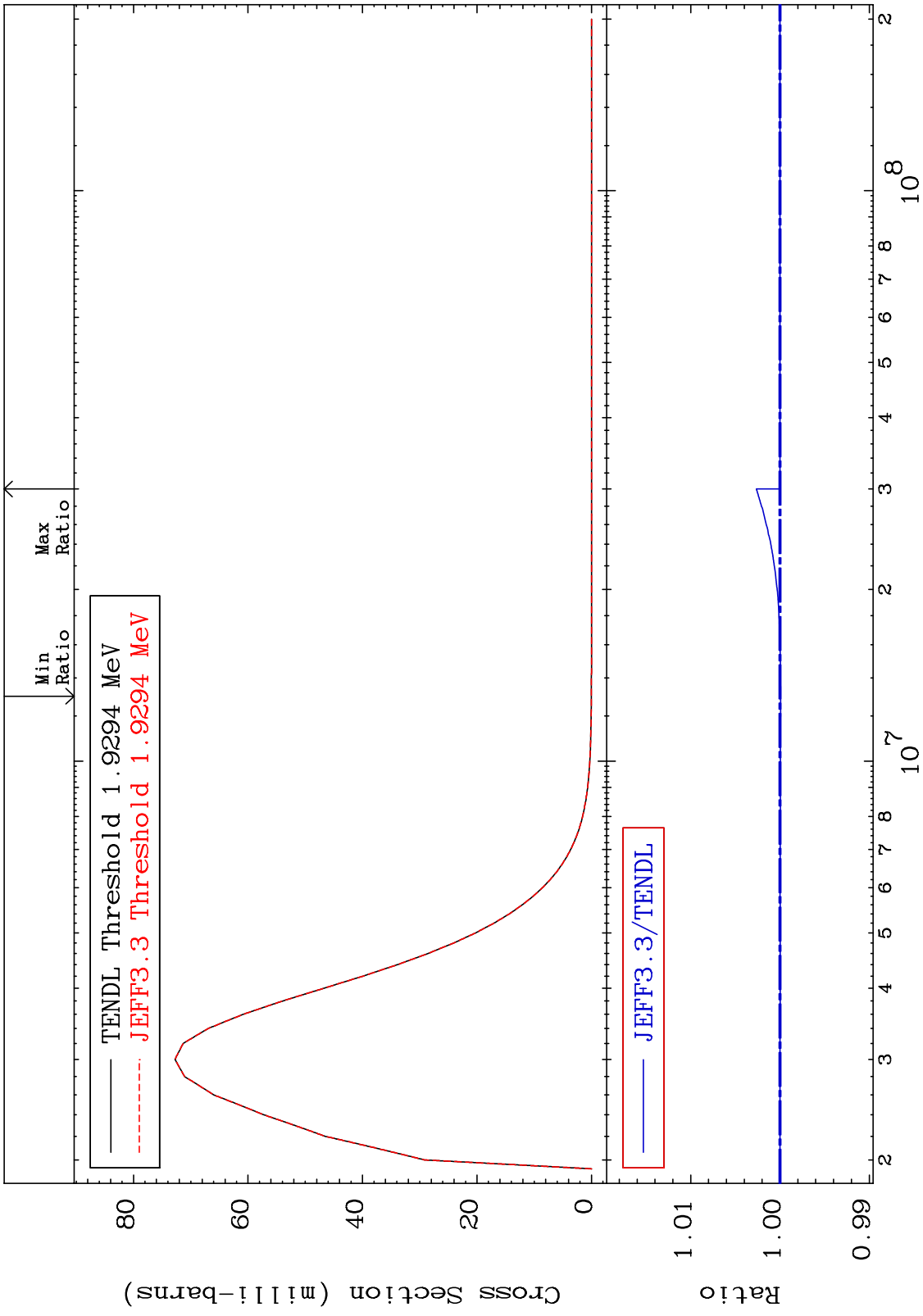
28 Incident Energy (eV) 28-Ni-63

MAT 2840 MT= 62 (n,n') Level Cross Section 28-Ni-63
 -0.006 To 0.265 %



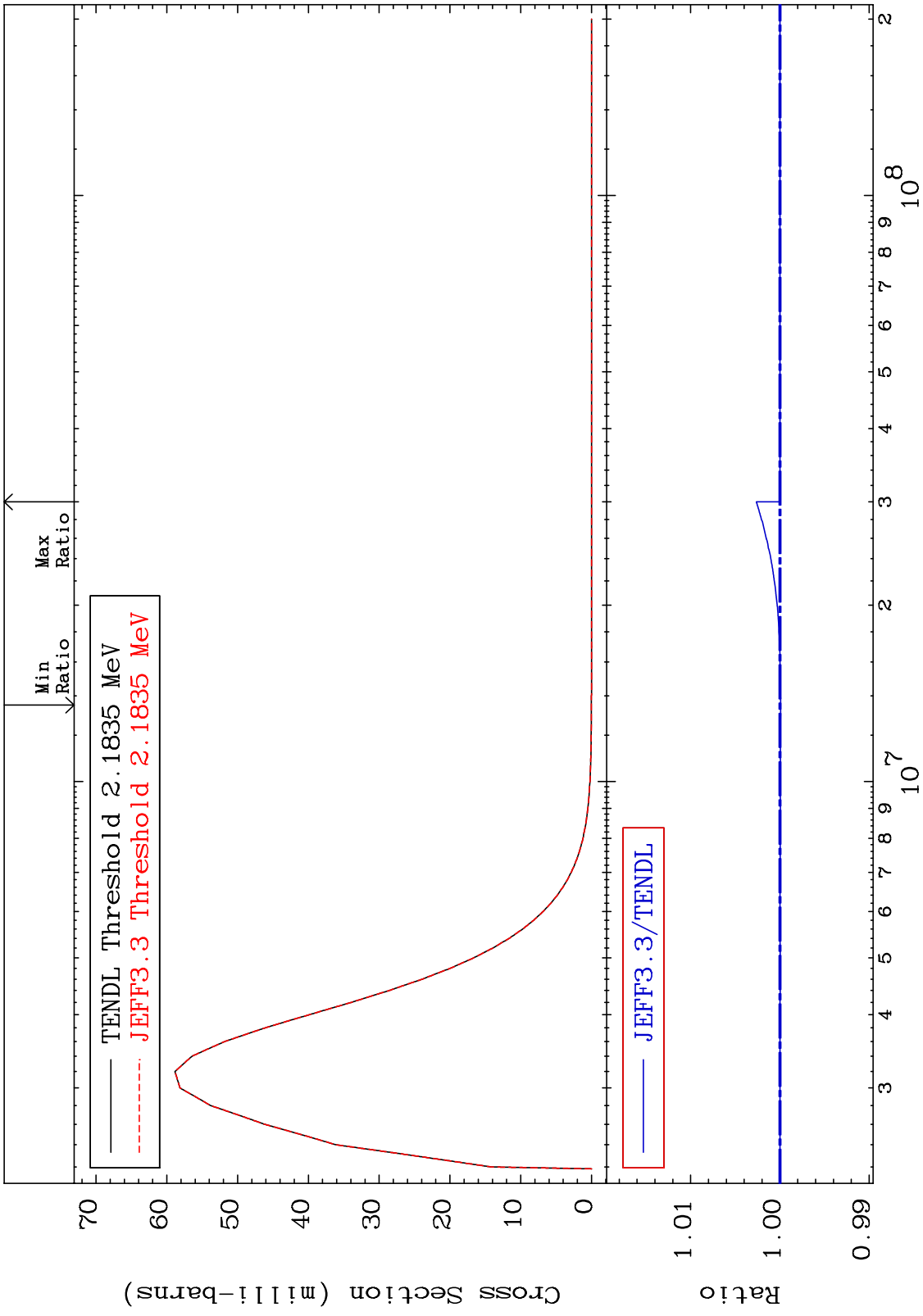
28-Ni-63

MAT 2840 MT= 63 (n,n') Level Cross Section -0.006 To 0.265 % 28-Ni-63

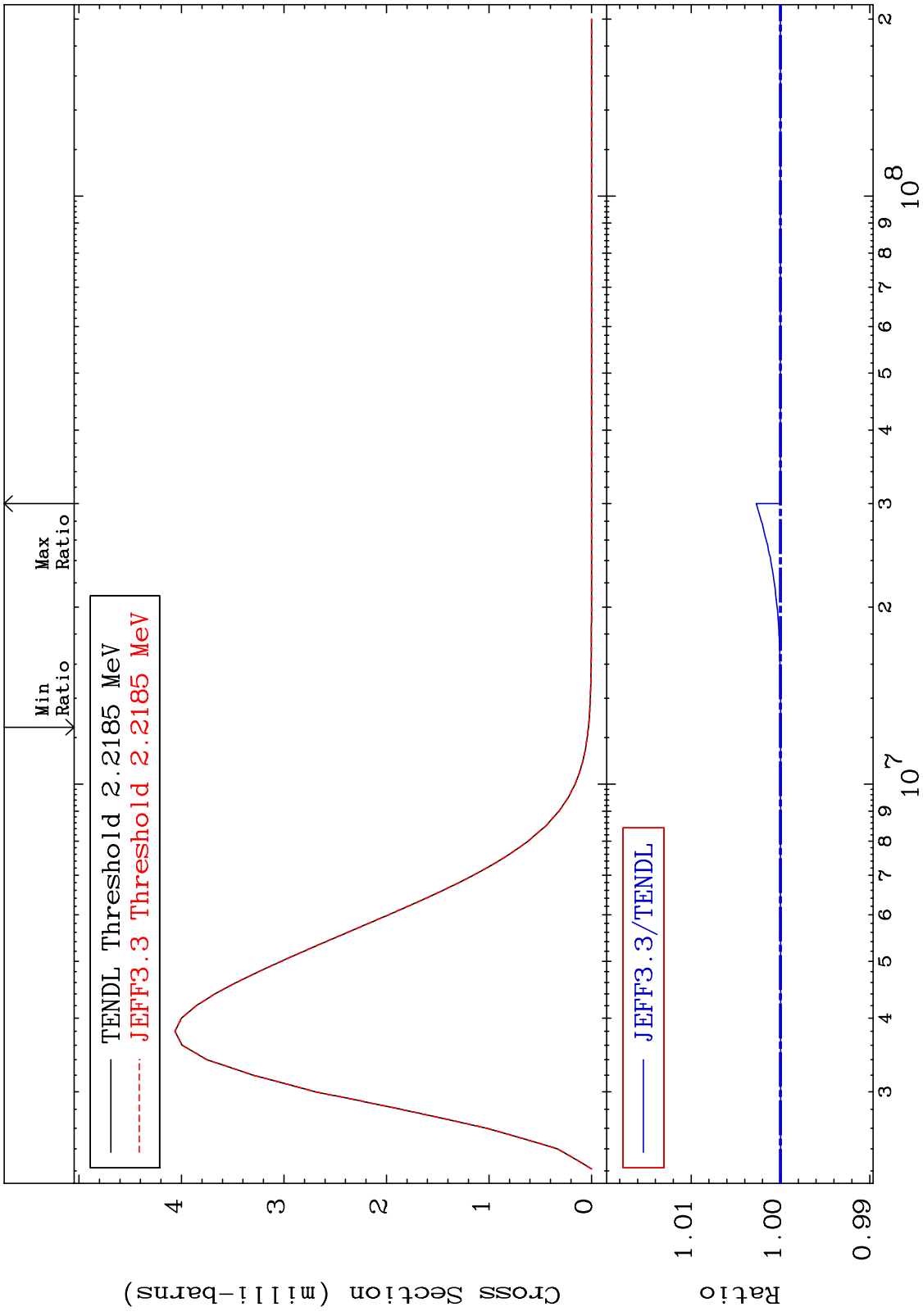


30 Incident Energy (eV) 28-Ni-63

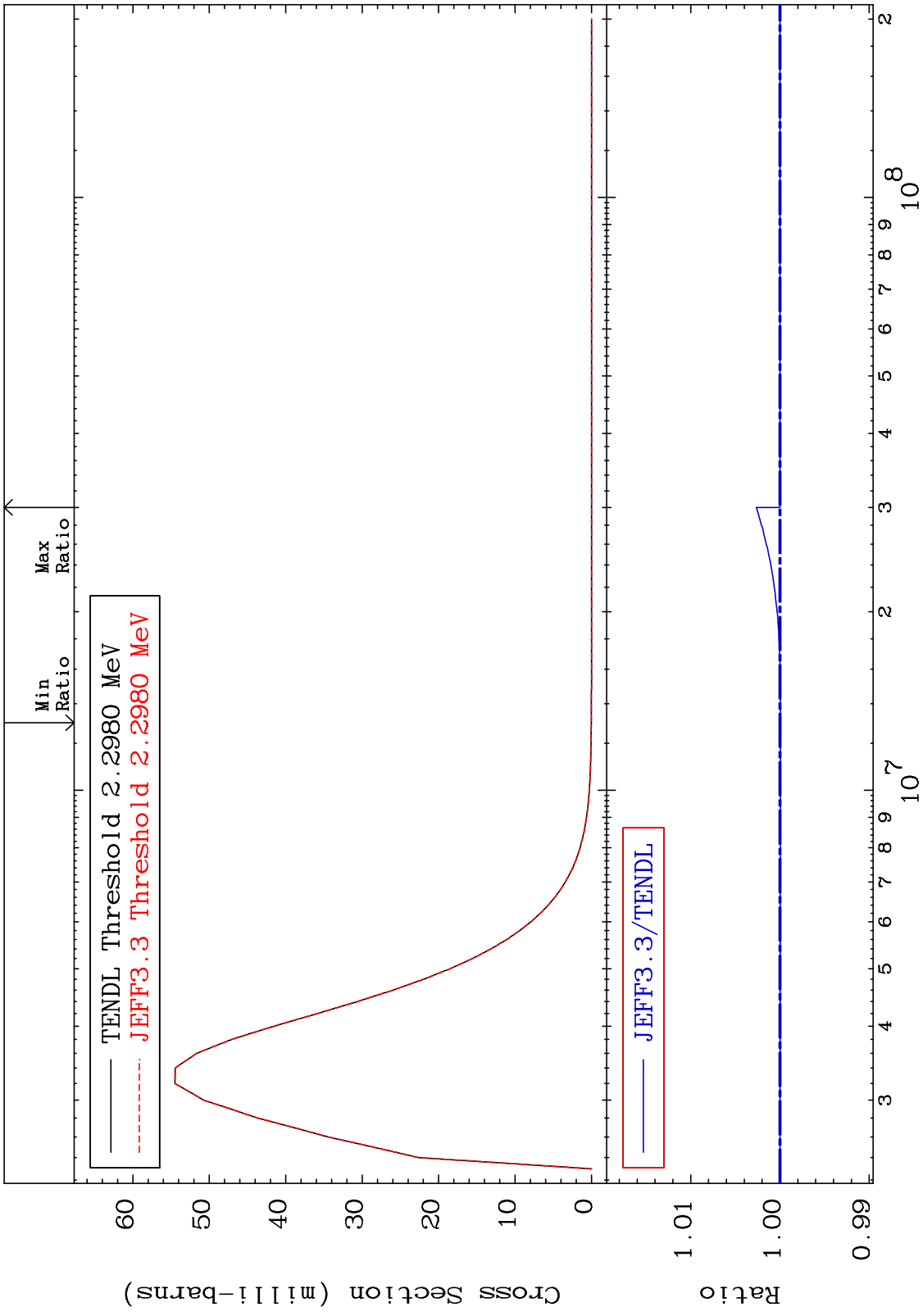
MAT 2840 MT= 64 (n,n') Level Cross Section 28-Ni-63
 -0.007 To 0.264 %



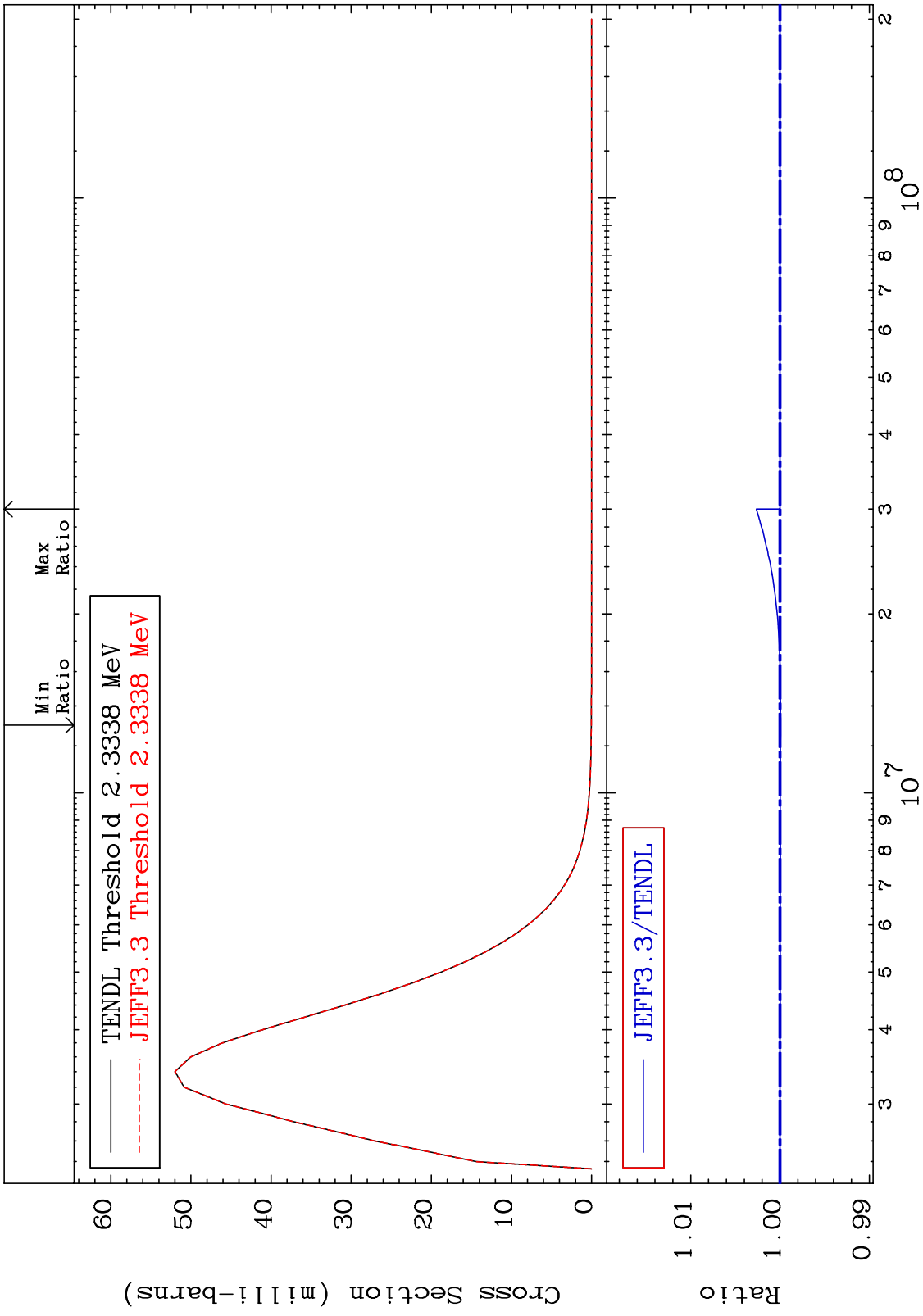
MAT 2840 MT= 65 (n,n') Level Cross Section 28-Ni-63 -0.003 To 0.272 %



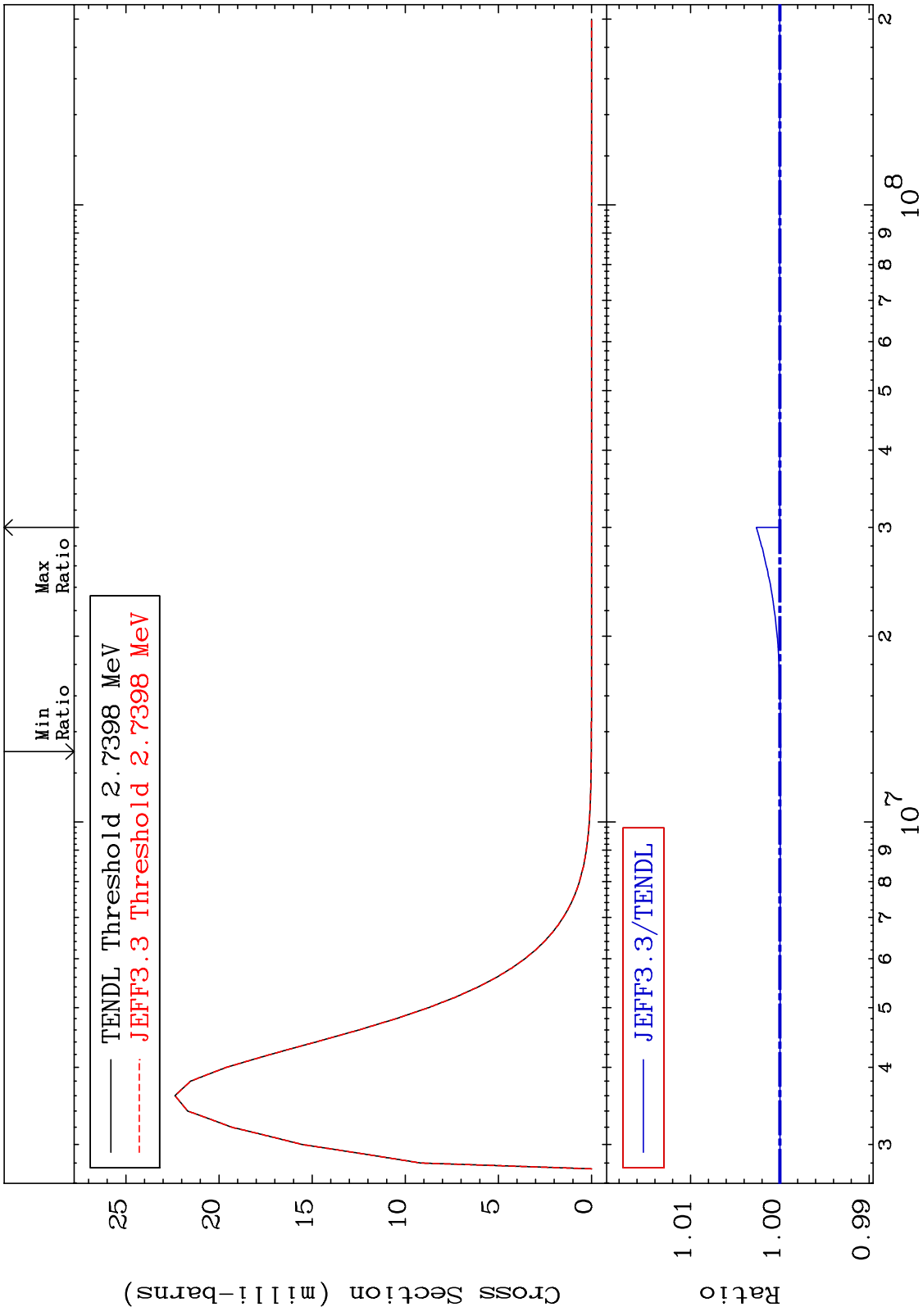
MAT 2840 MT= 66 (n,n') Level Cross Section 28-Ni-63
 -0.007 To 0.265 %



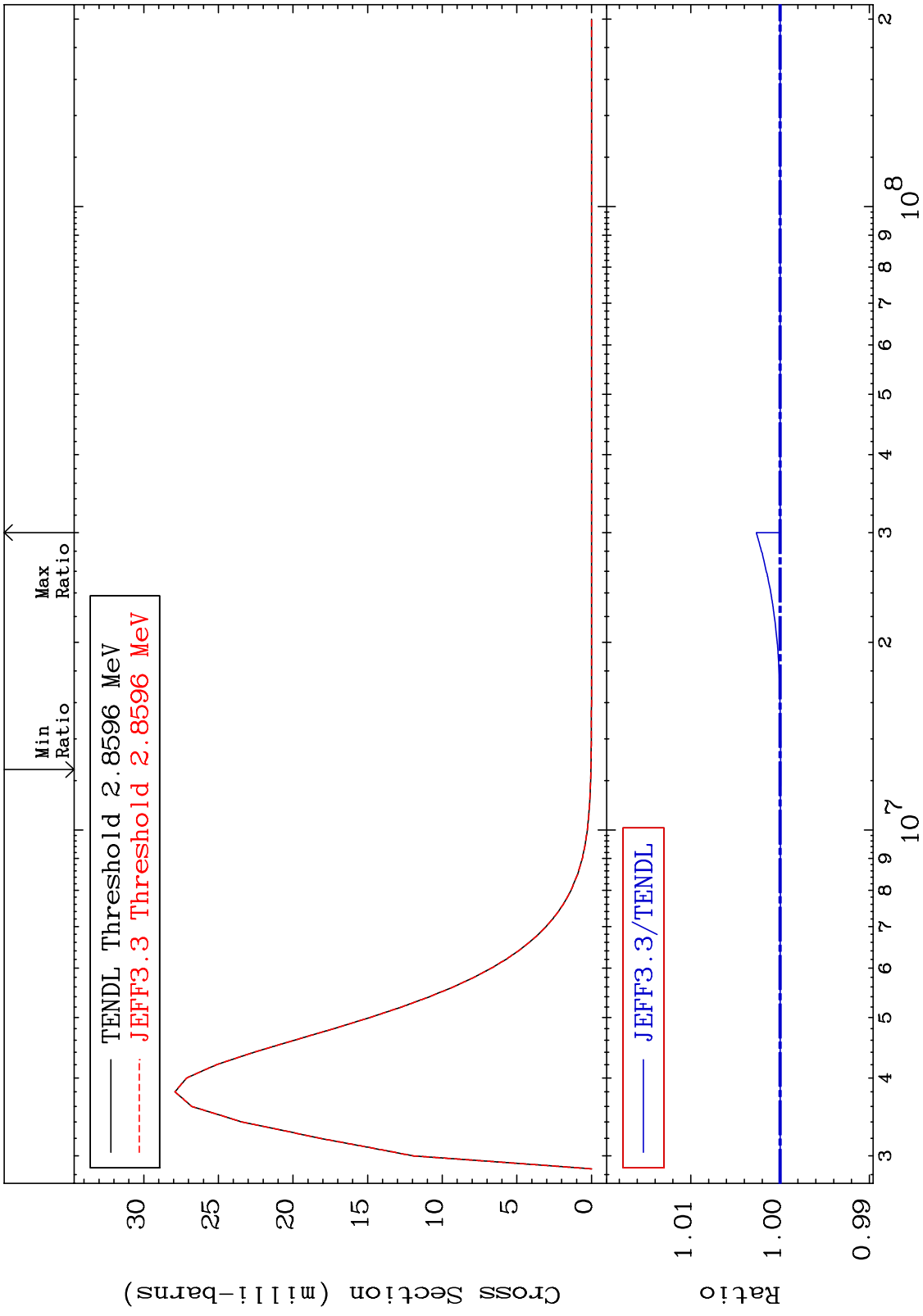
MAT 2840 MT= 67 (n,n') Level Cross Section 28-Ni-63 -0.006 To 0.265 %



MAT 2840 MT= 72 (n,n') Level Cross Section 28-Ni-63 -0.008 To 0.263 %

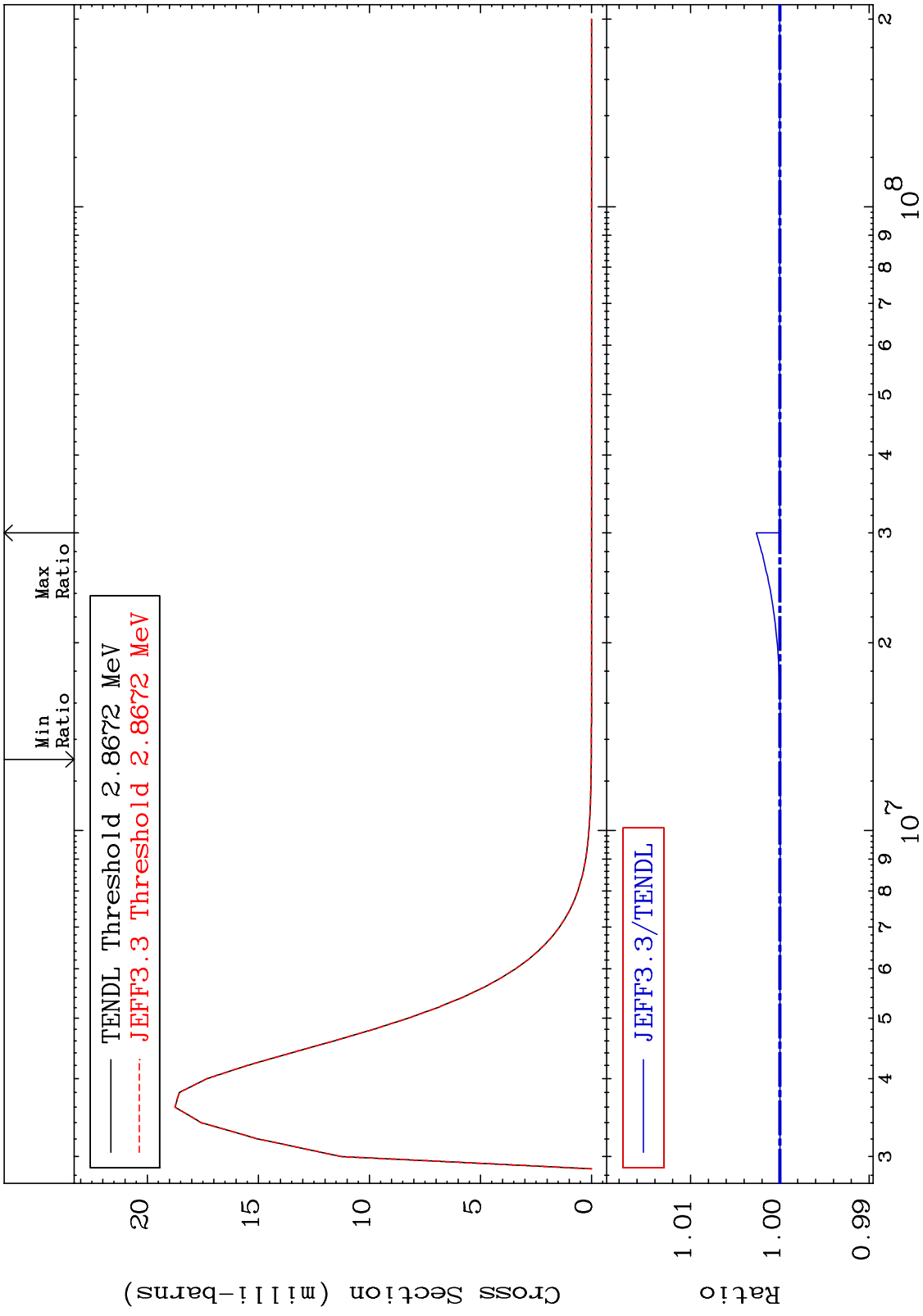


MAT 2840 MT= 73 (n,n') Level Cross Section 28-Ni-63 -0.005 To 0.266 %

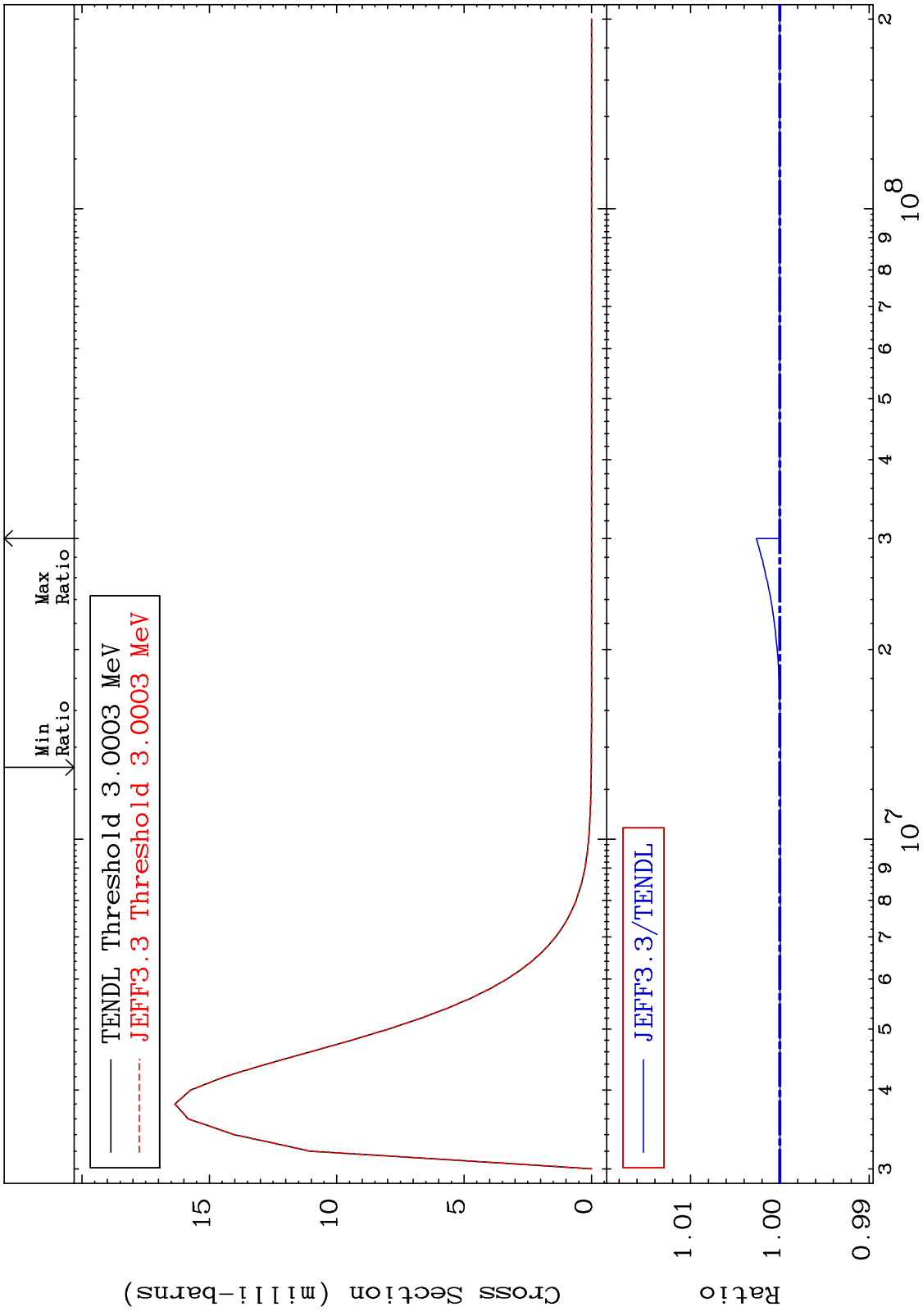


36 28-Ni-63 Incident Energy (eV)

MAT 2840 MT= 74 (n,n') Level Cross Section 28-Ni-63
 -0.007 To 0.263 %



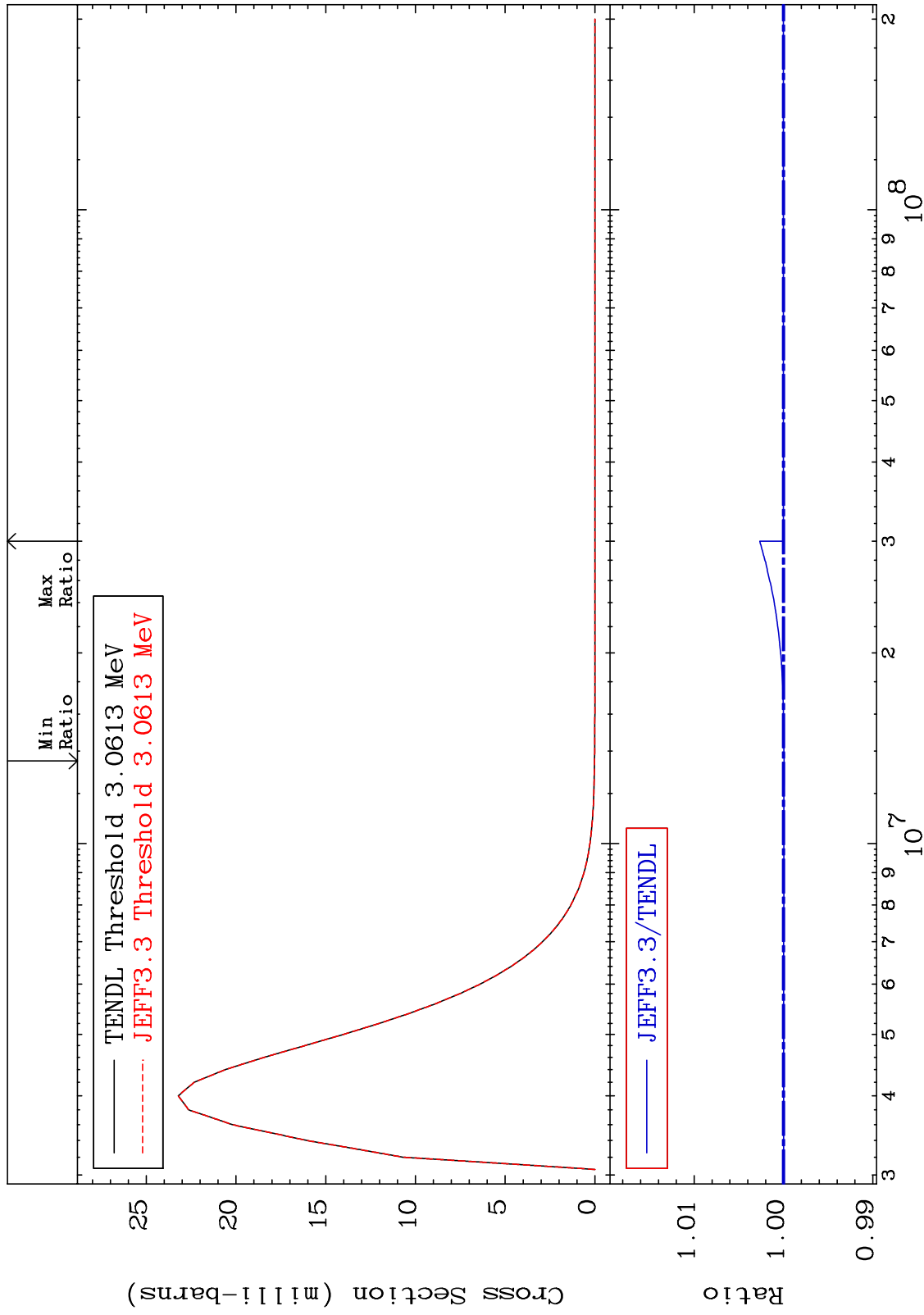
MAT 2840 MT= 75 (n,n') Level Cross Section 28-Ni-63
 -0.007 To 0.263 %



MAT 2840

MT= 77 (n,n') Level
Cross Section

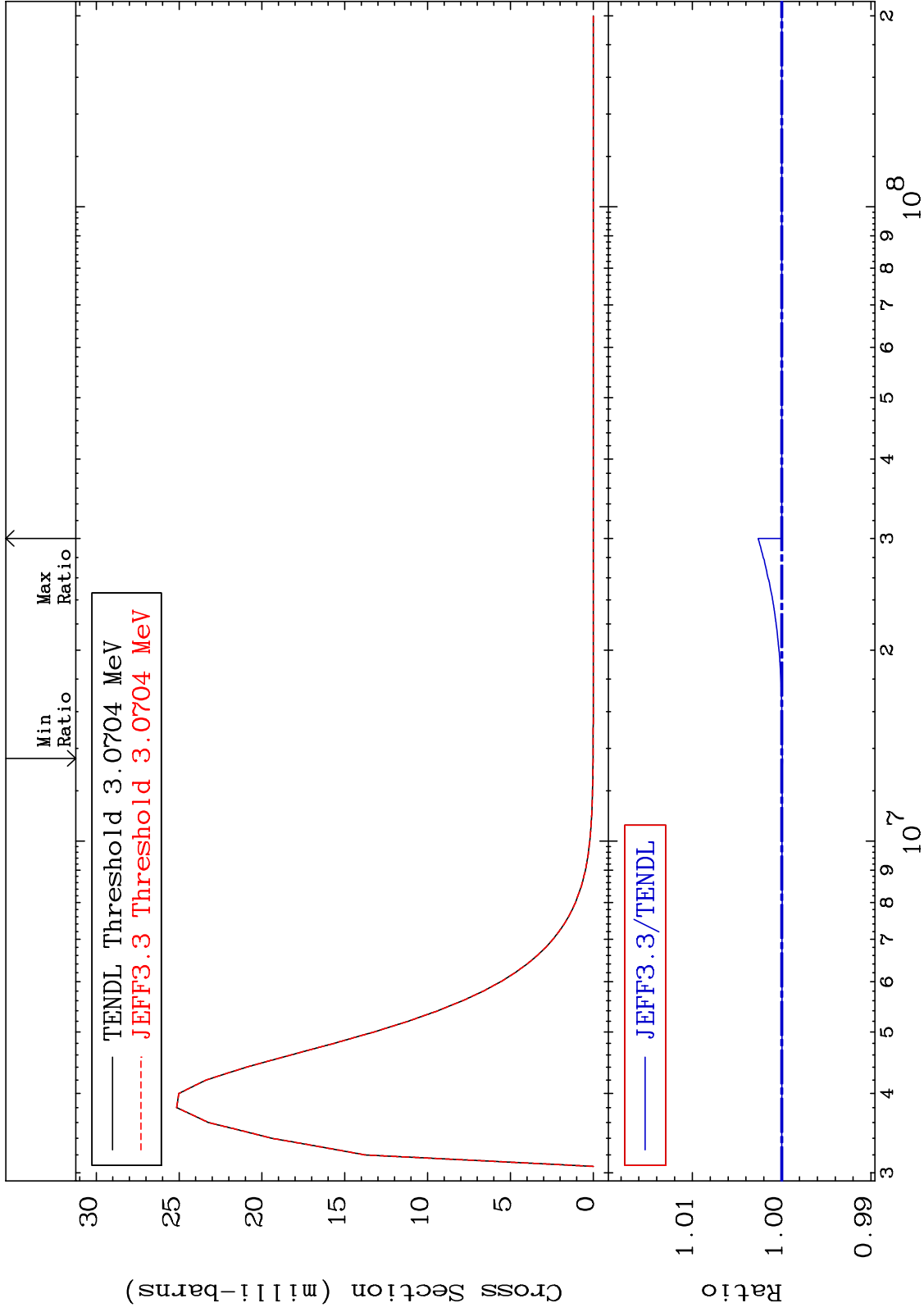
28-Ni-63
-0.006 To 0.266 %



MAT 2840

MT= 78 (n,n') Level
Cross Section

28-Ni-63
-0.007 To 0.264 %



40

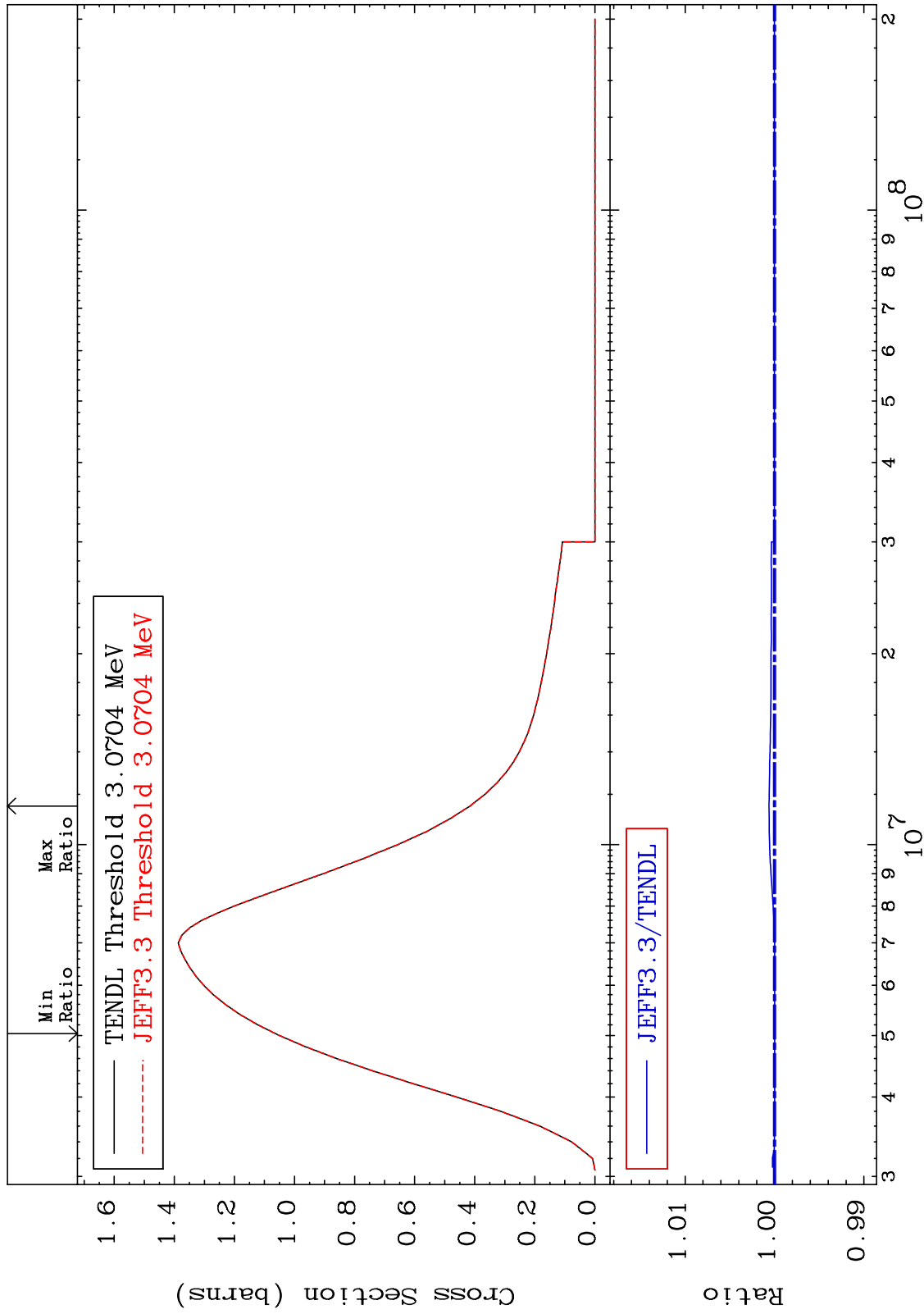
Incident Energy (eV)

28-Ni-63

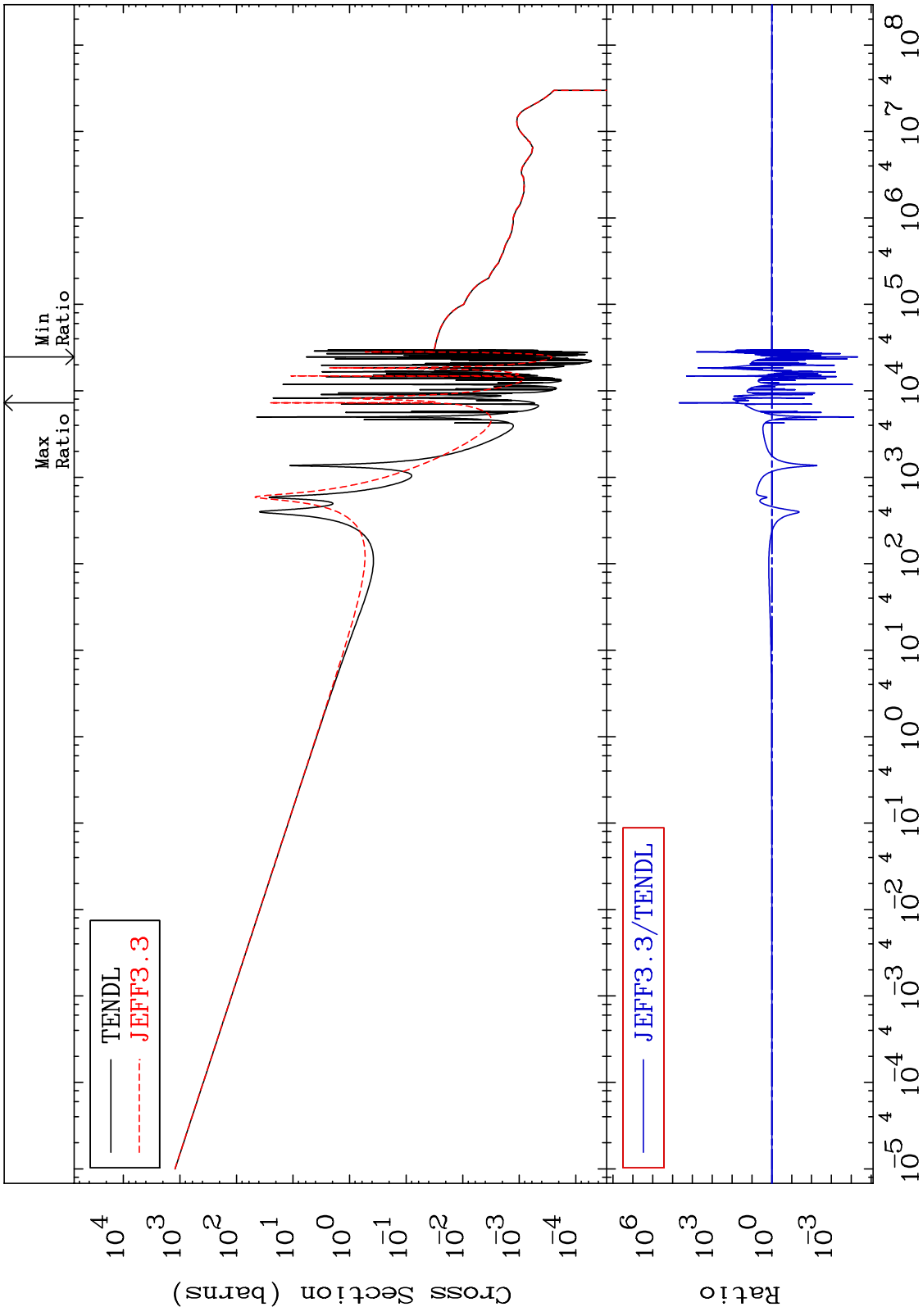
MAT 2840

(n, n') Continuum
Cross Section

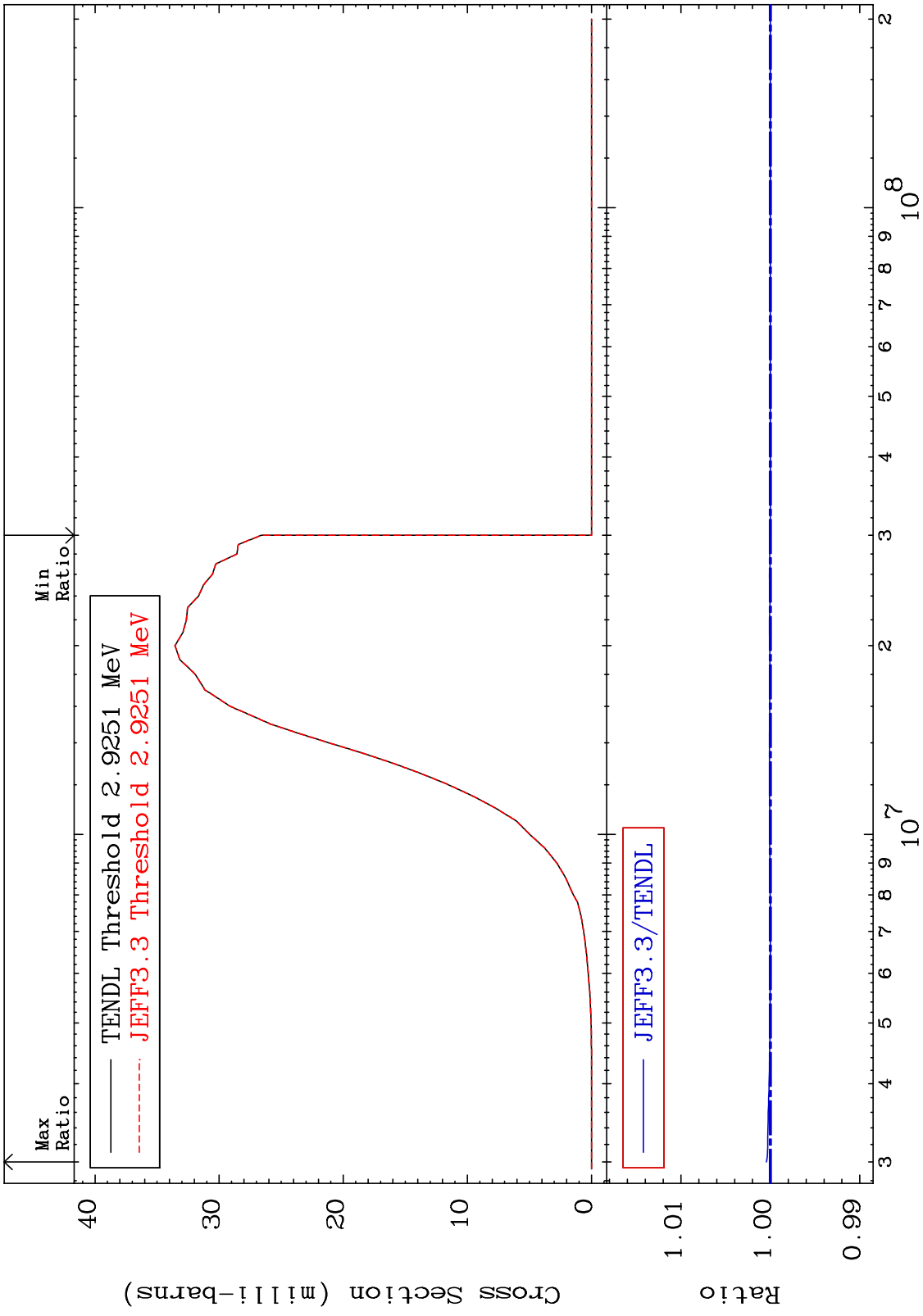
28-Ni-63
-0.002 To 0.061 %



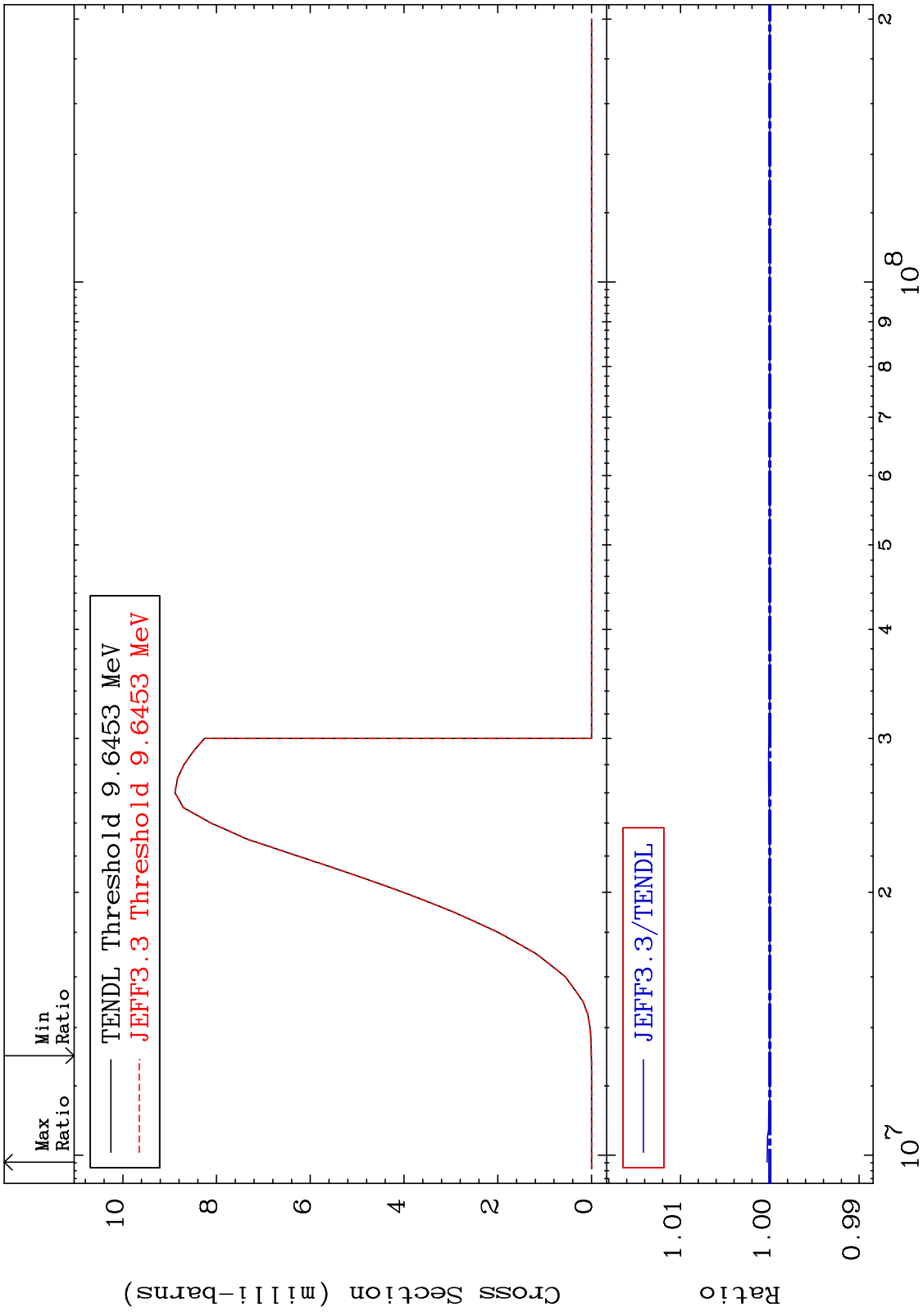
MAT 2840 (n, γ) Cross Section 28-Ni-63 -100.0 To 9999. %



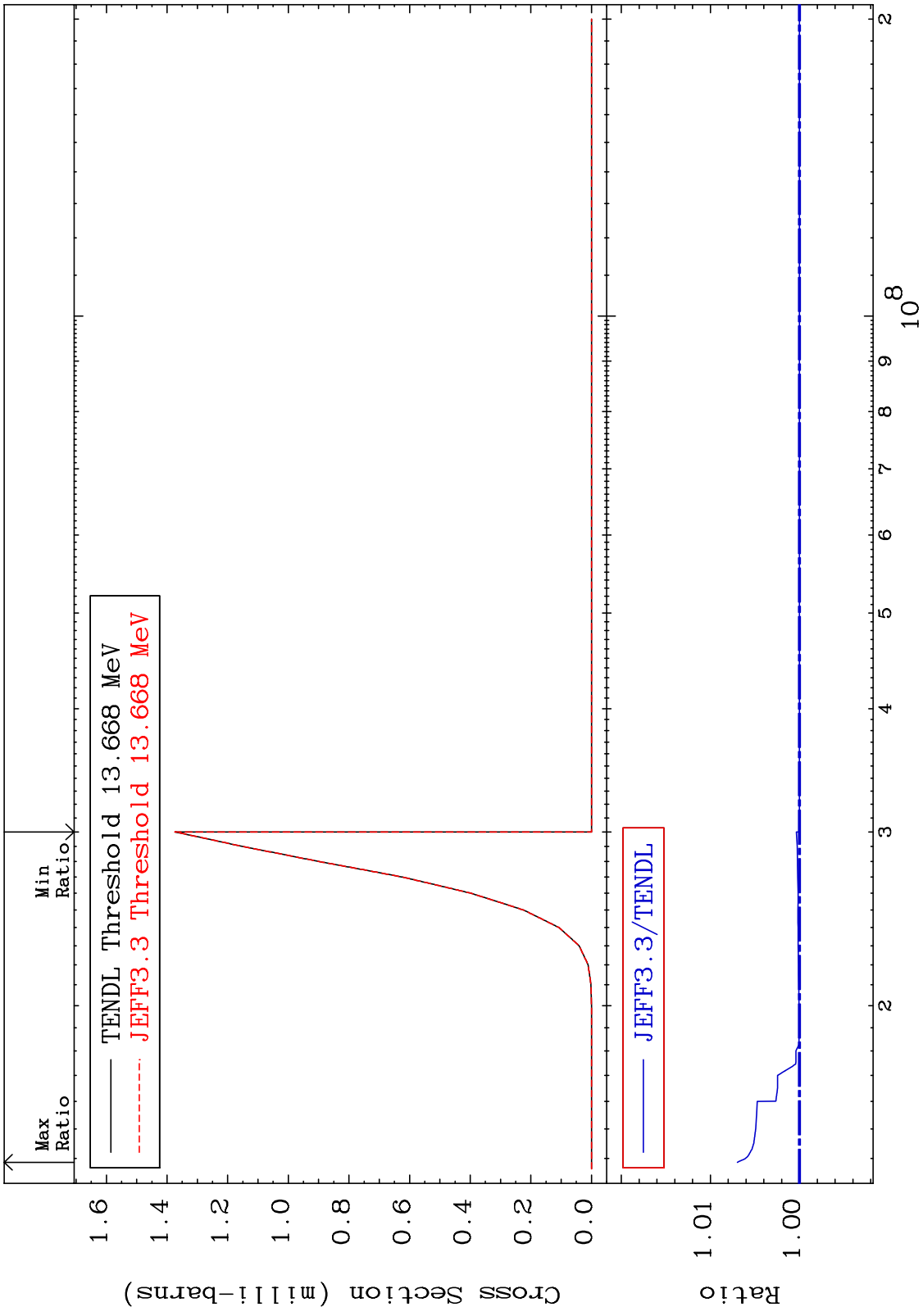
MAT 2840 (n,p) Cross Section 28-Ni-63 To 0.044 %



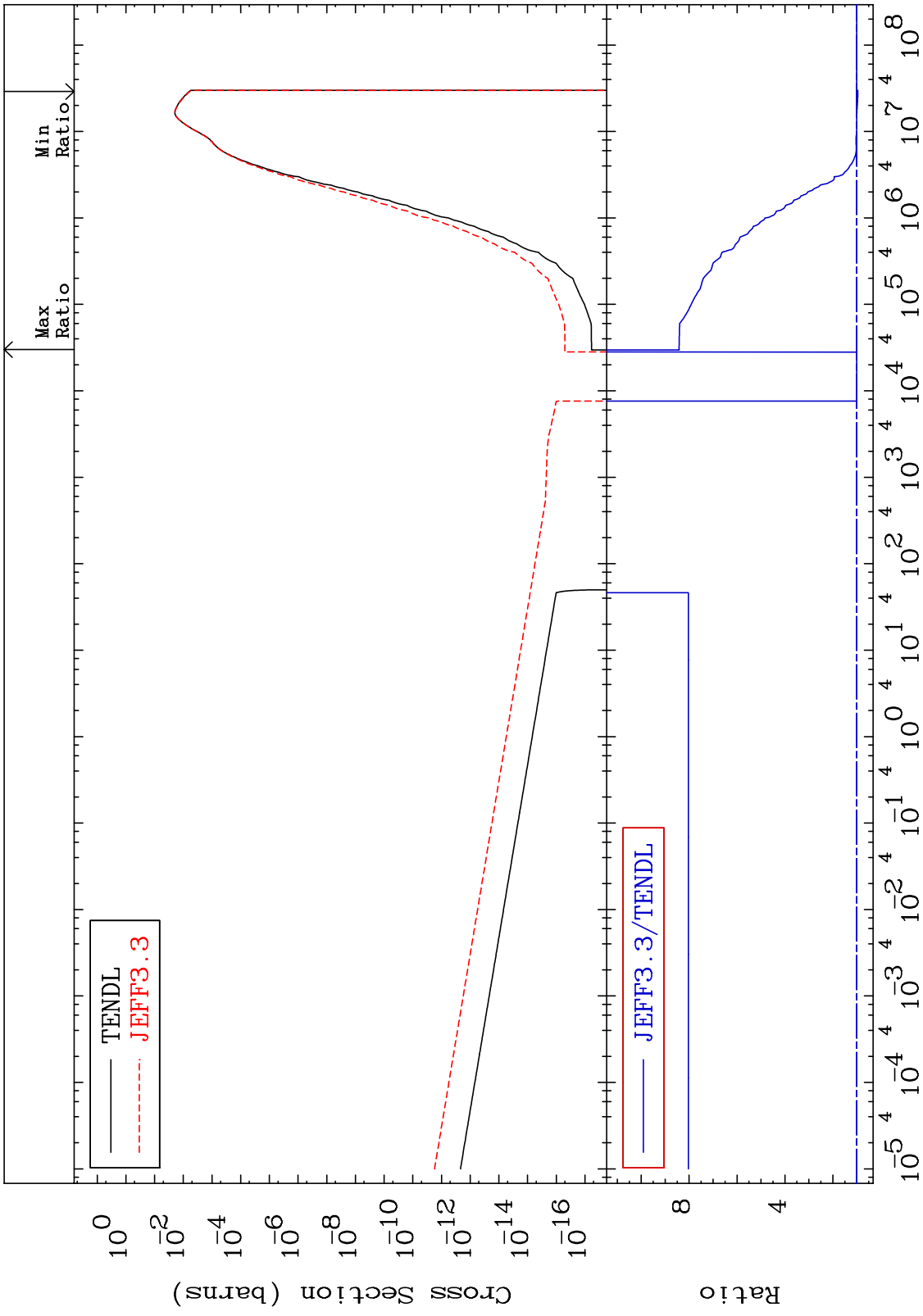
43 28-Ni-63 Incident Energy (eV)



MAT 2840 (n, He-3) 28-Ni-63
 Cross Section 0.000 To 0.697 %

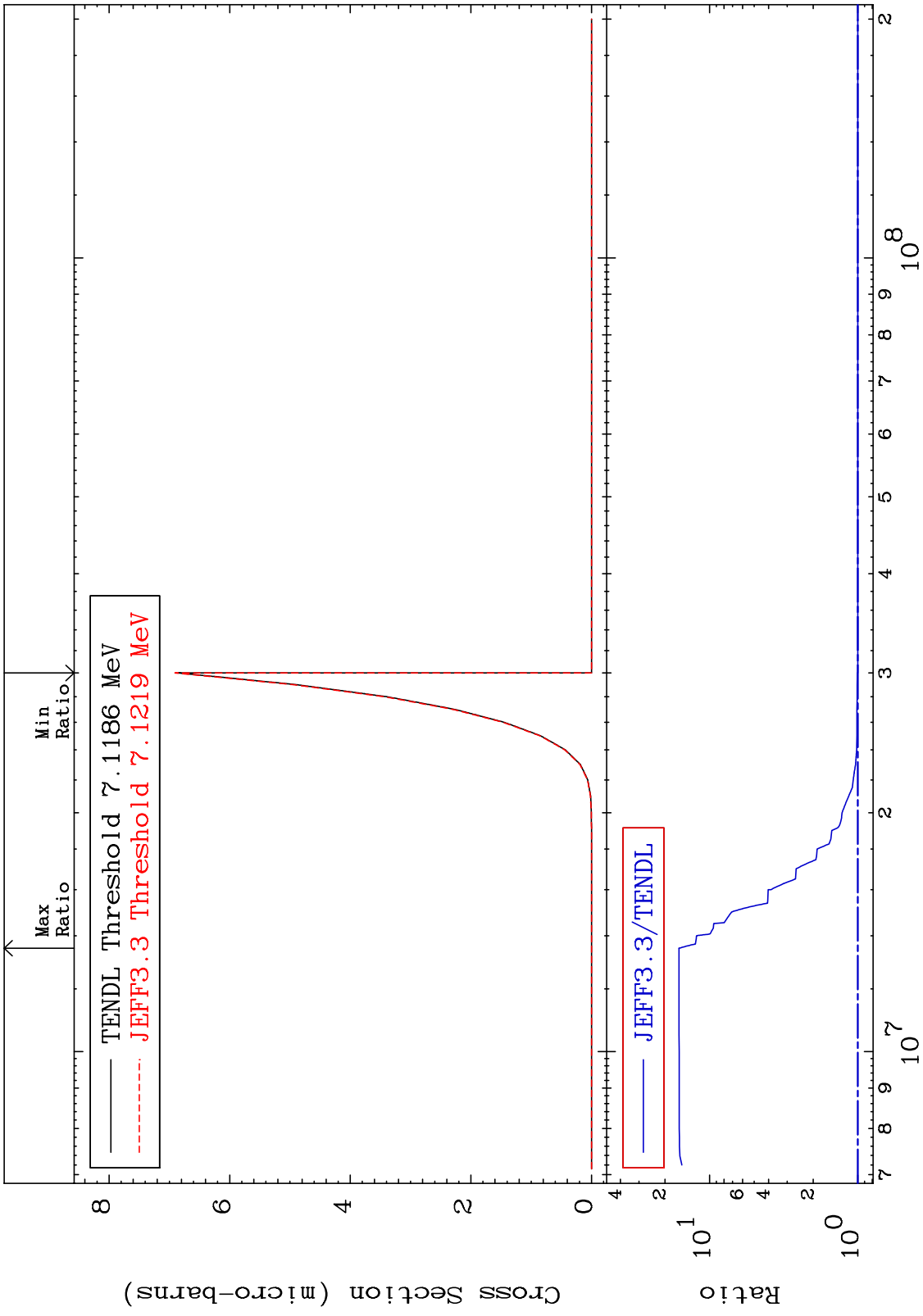


MAT 2840 (n, α) Cross Section $^{28}\text{Ni-63}$ -4.418 To 742.1 %



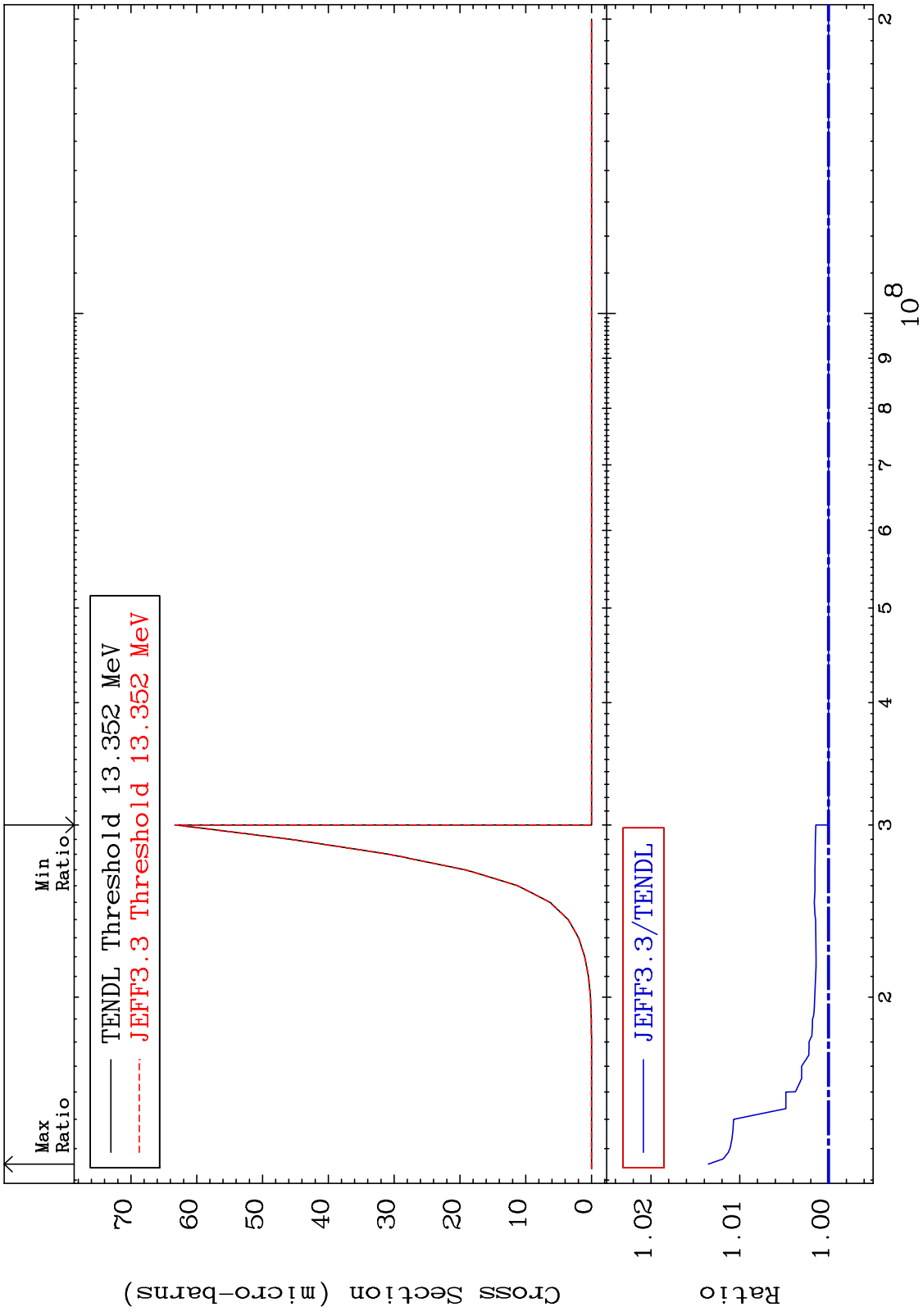
46 $^{28}\text{Ni-63}$

MAT 2840 28-Ni-63
(n,2α) To 1509. %
Cross Section

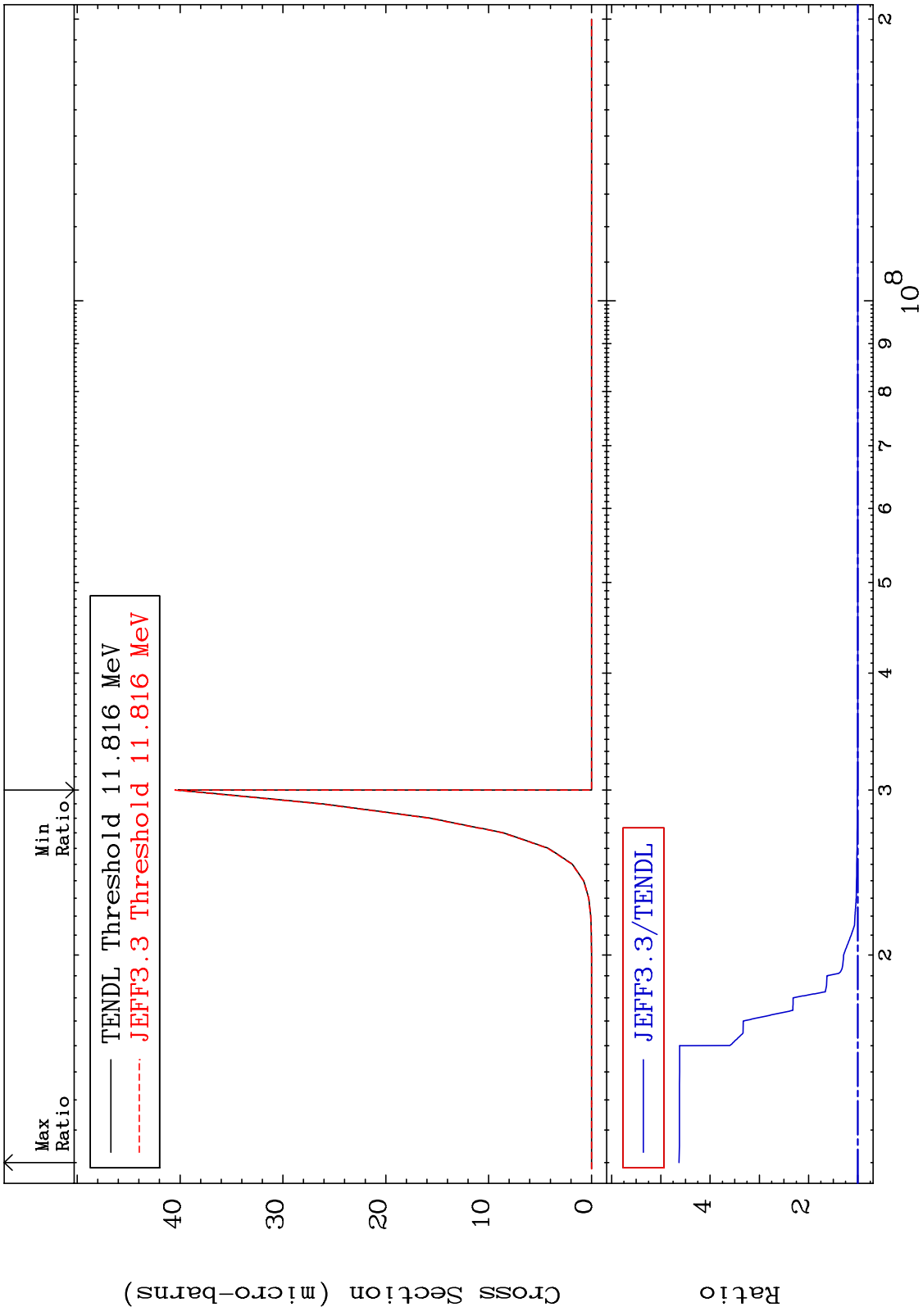


47 28-Ni-63

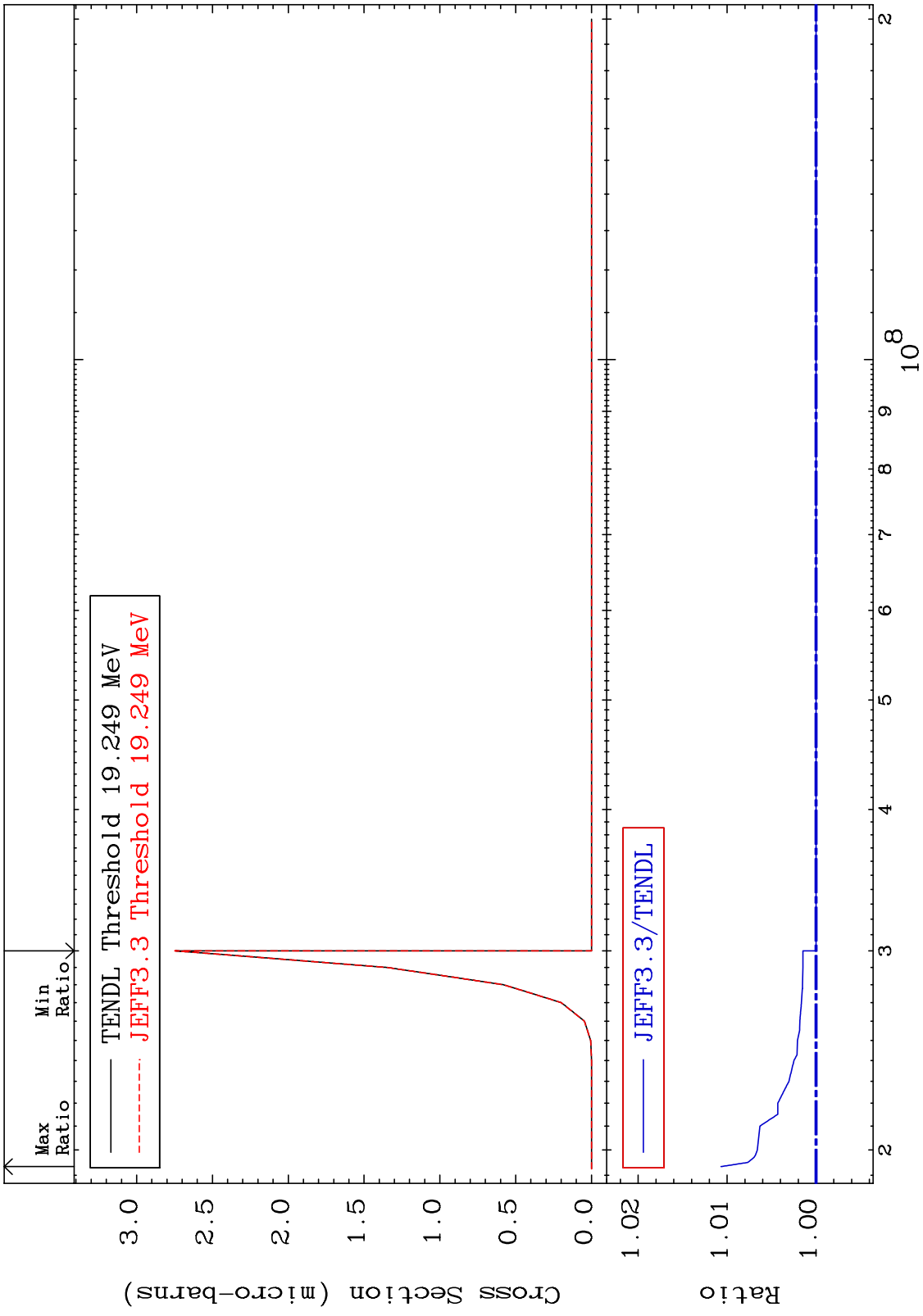
MAT 2840 (n,2p) Cross Section 28-Ni-63 To 1.354 %

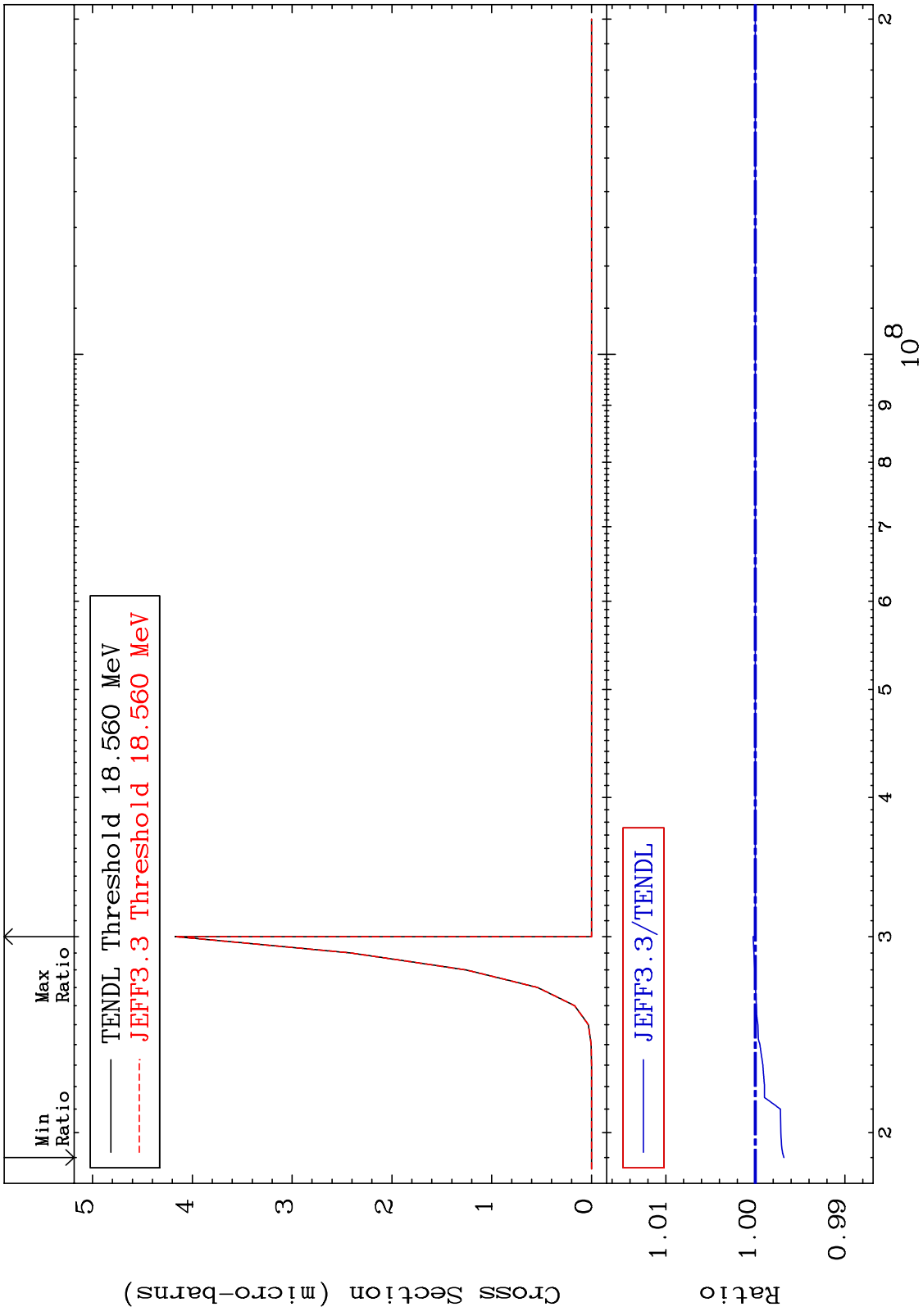


MAT 2840 $(n,p) \alpha$ 28-Ni-63
 Cross Section 0.000 To 363.0 %

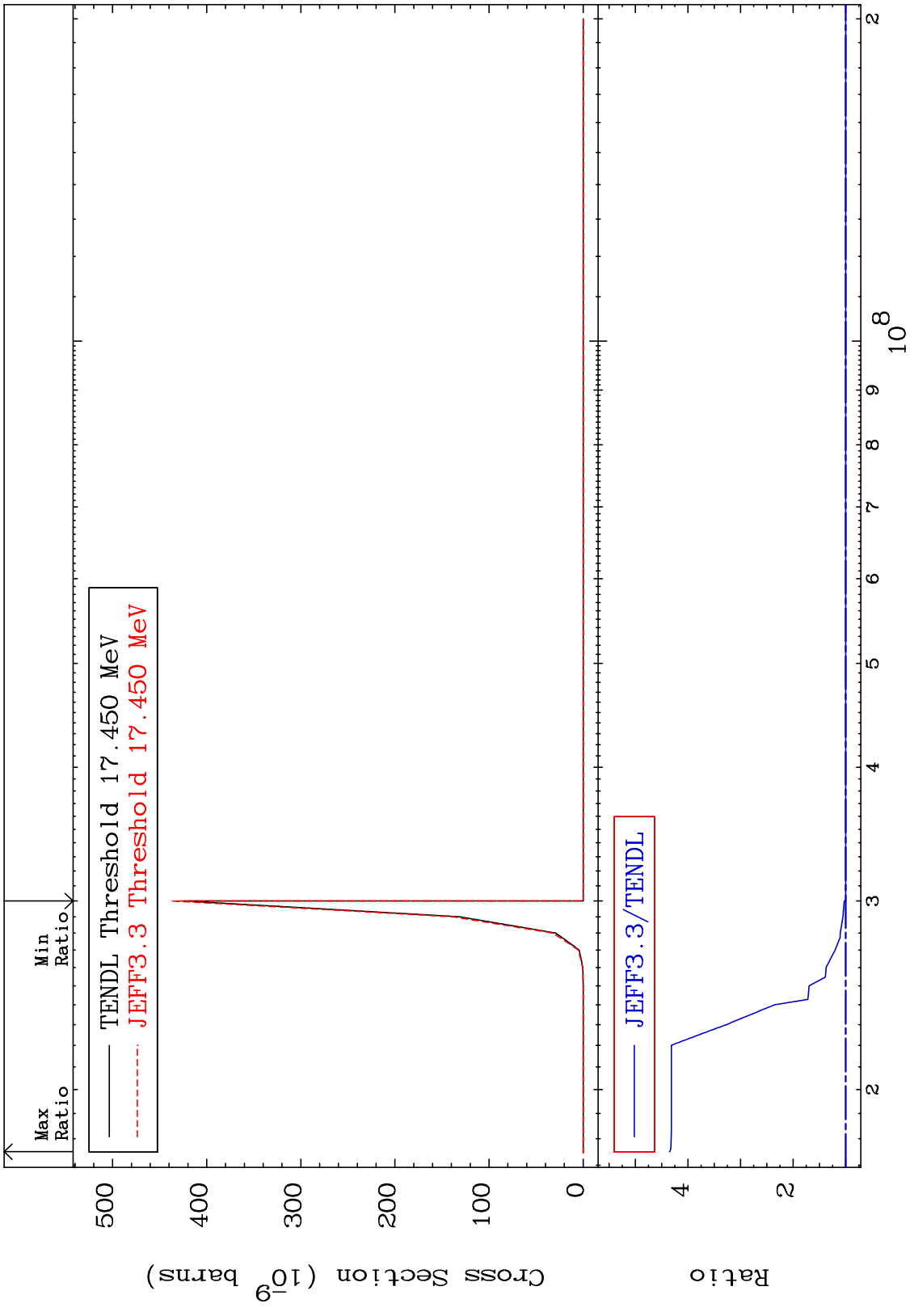


MAT 2840 (n,p) d 28-Ni-63
 Cross Section 0.000 To 1.071 %





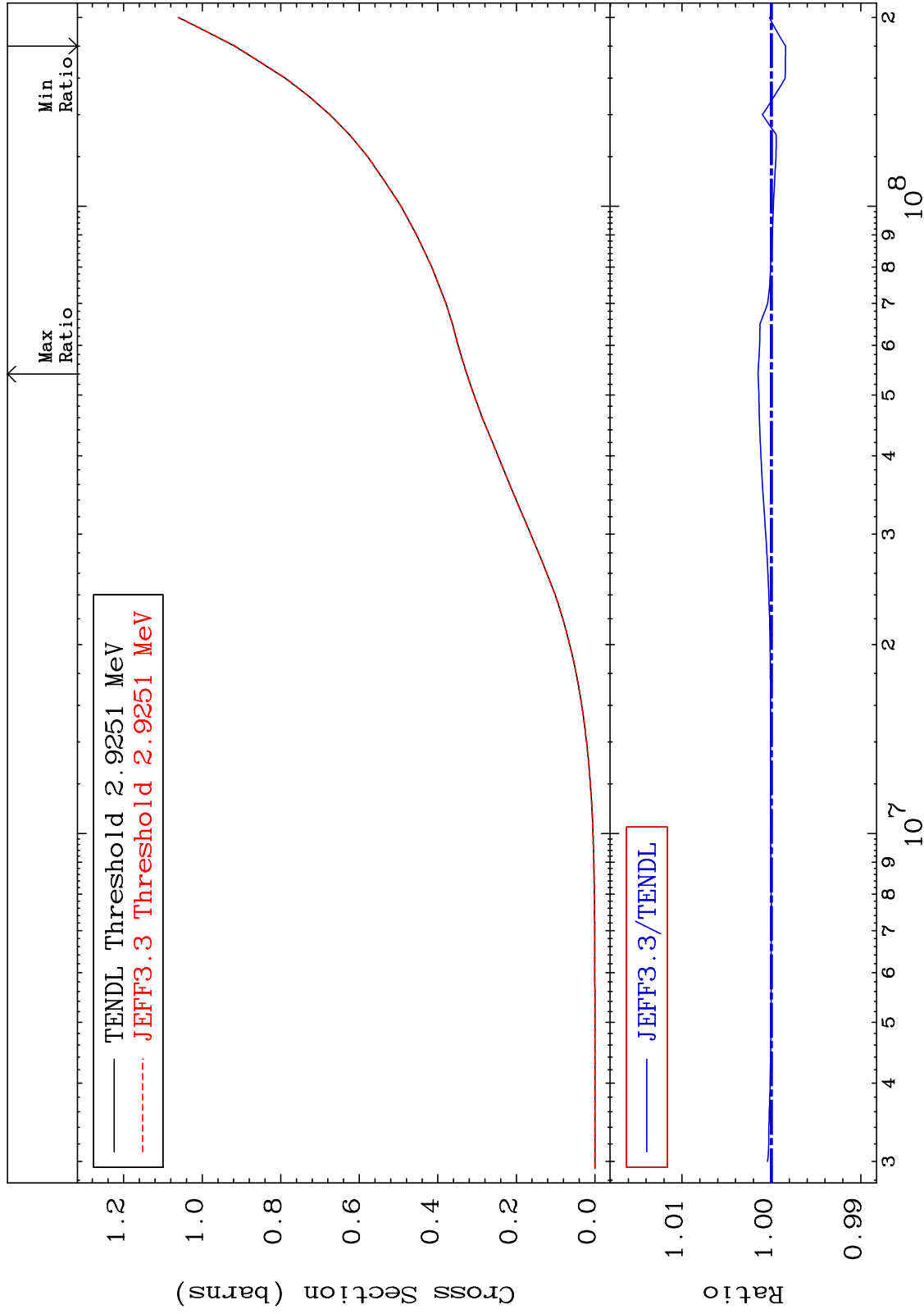
MAT 2840 $(n,d) \alpha$ Cross Section 28-Ni-63 To 335.1 %



MAT 2840

Hydrogen Production
Cross Section

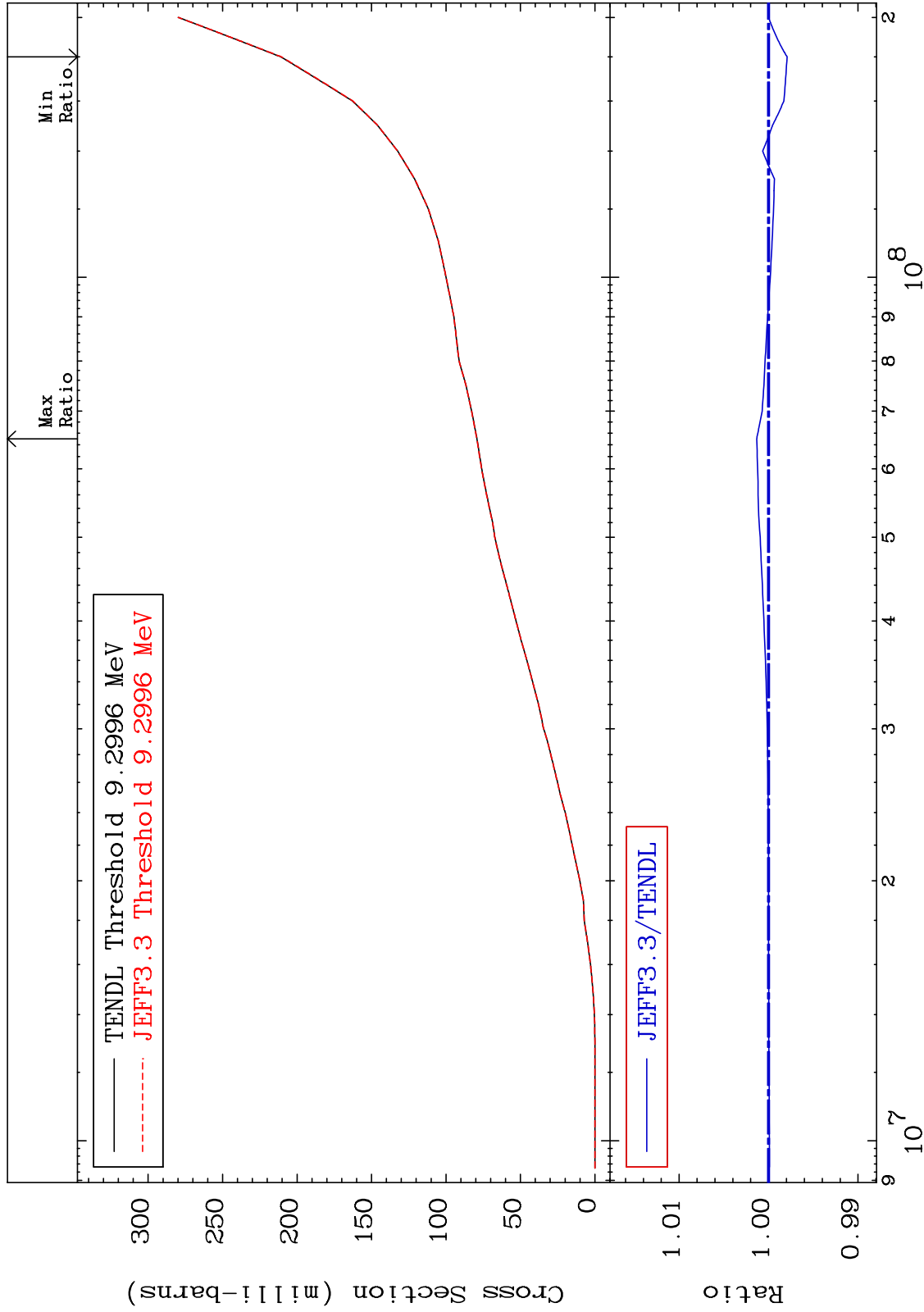
²⁸Ni-63
-0.159 To 0.148 %



MAT 2840

Deuterium Production
Cross Section

28-Ni-63
-0.206 To 0.133 %



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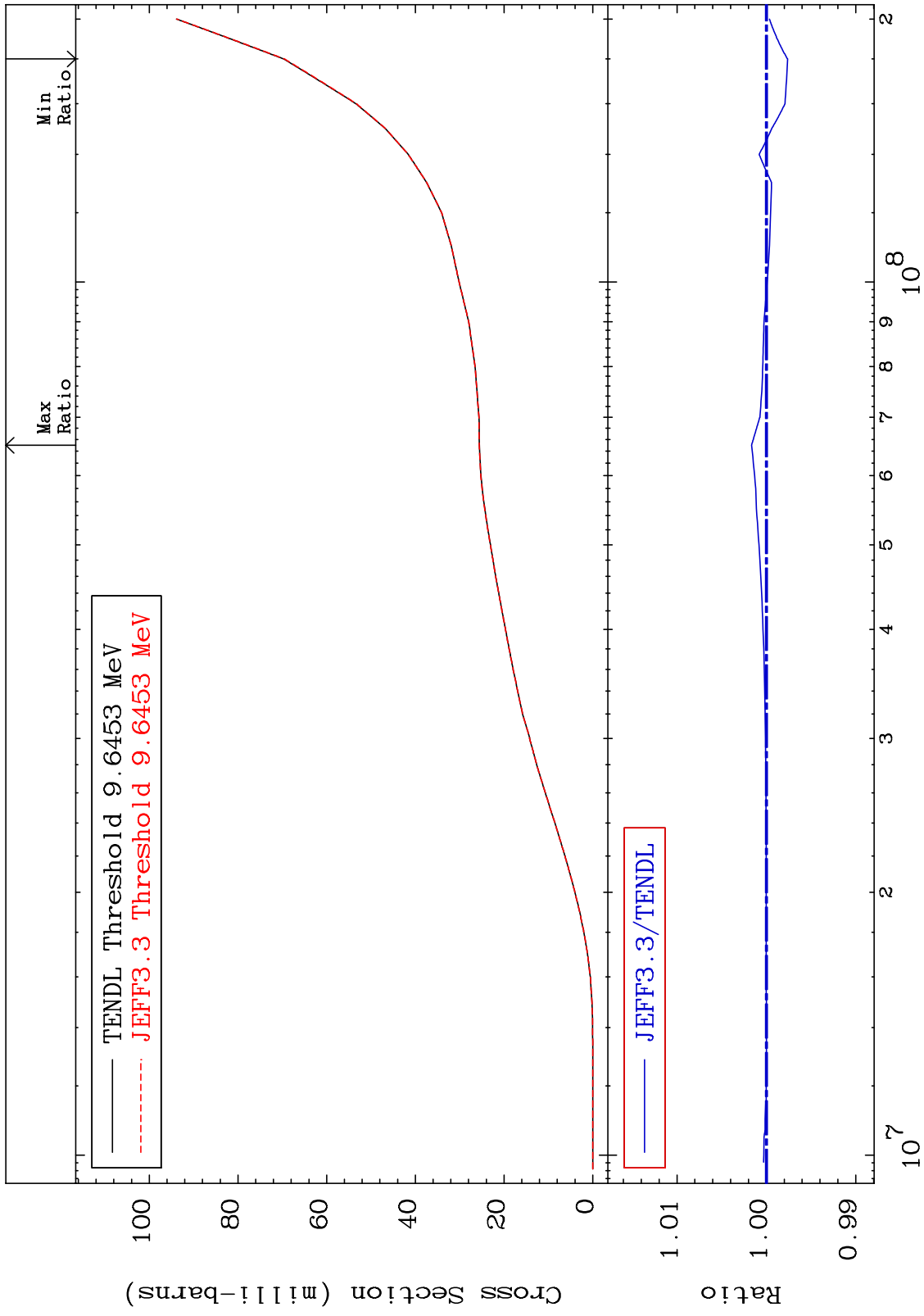
Incident Energy (eV)

28-Ni-63

MAT 2840

Tritium Production
Cross Section

28-Ni-63
-0.237 To 0.166 %

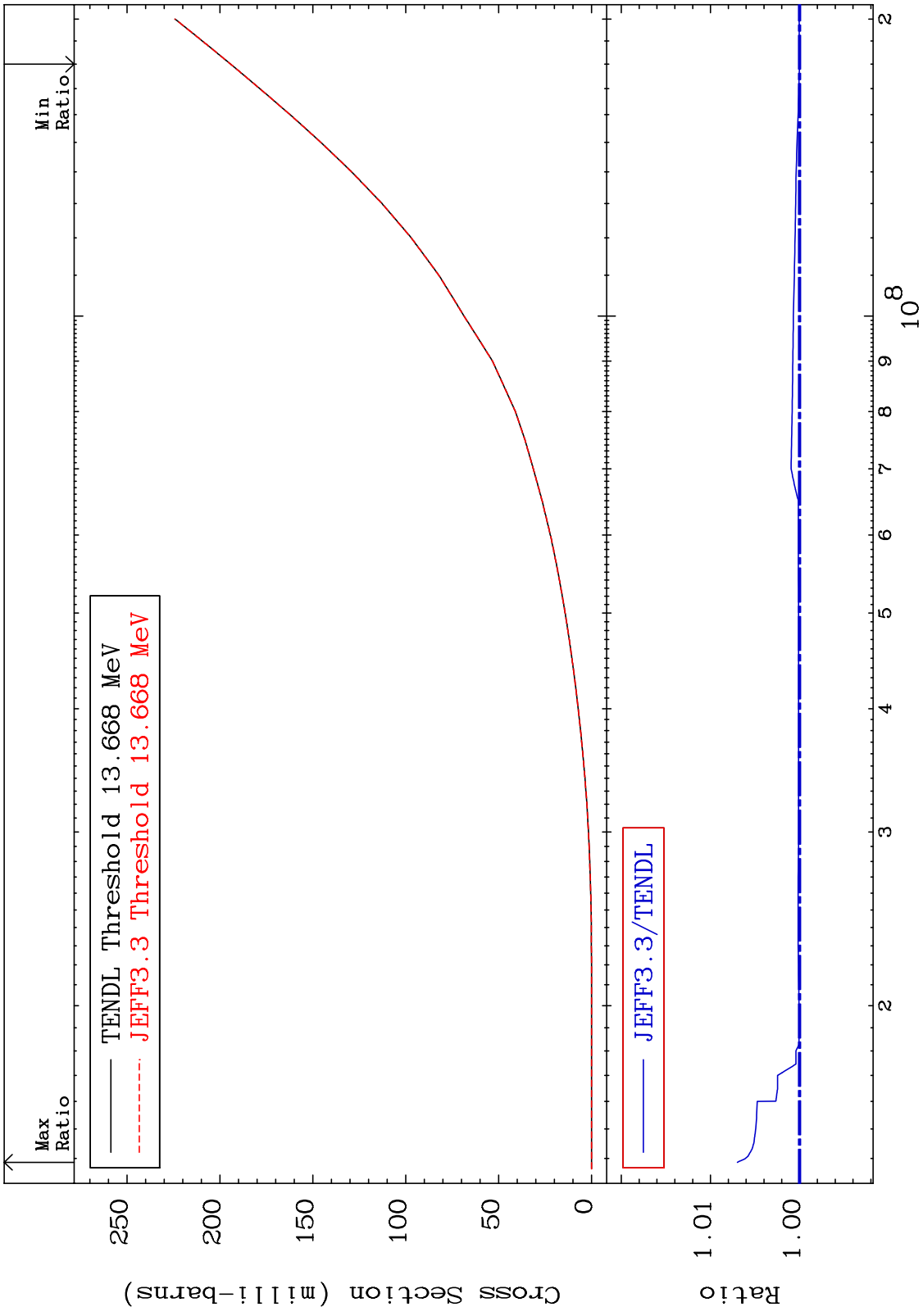


55

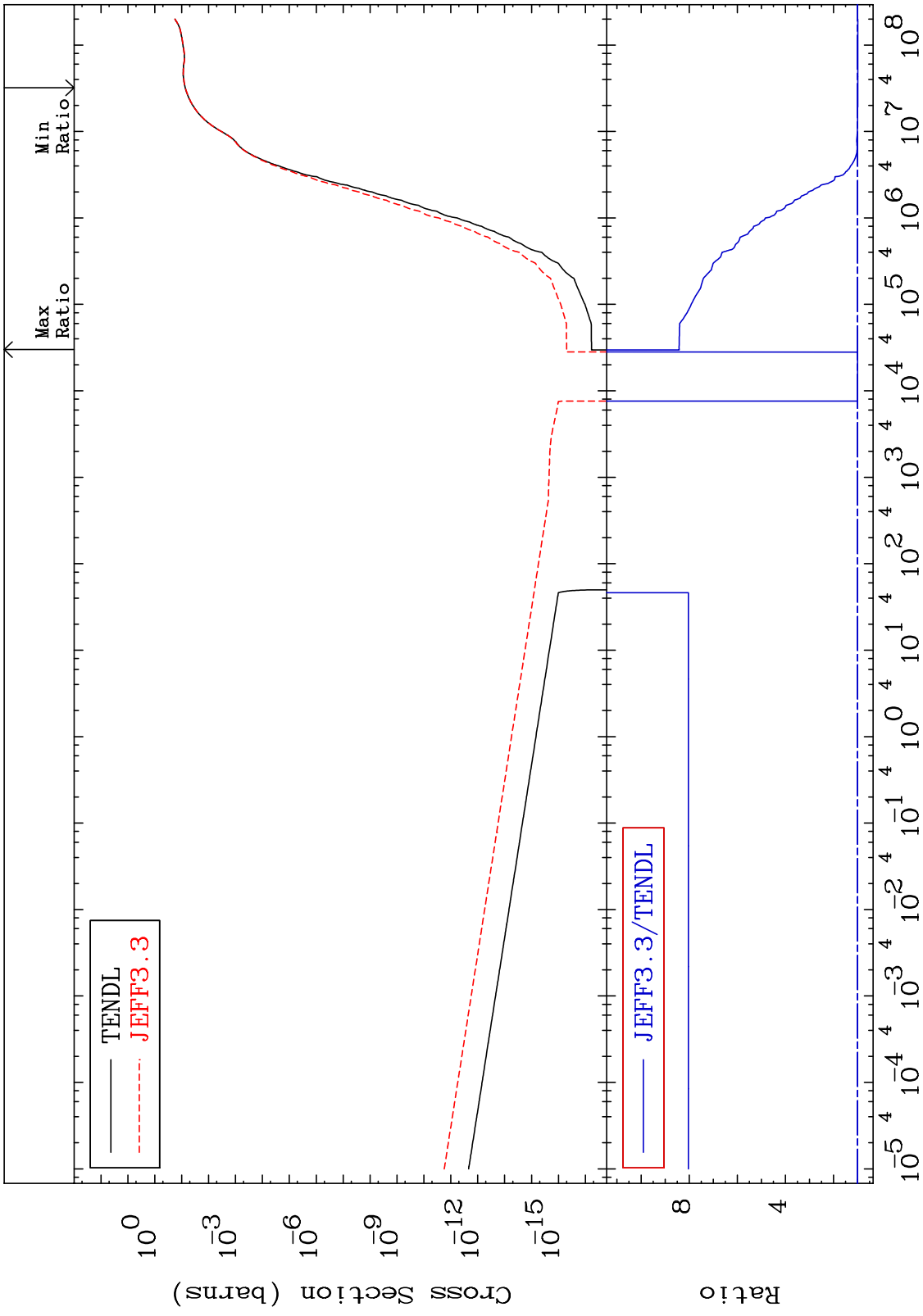
Incident Energy (eV)

28-Ni-63

MAT 2840 He-3 Production Cross Section 28-Ni-63 To 0.697 %

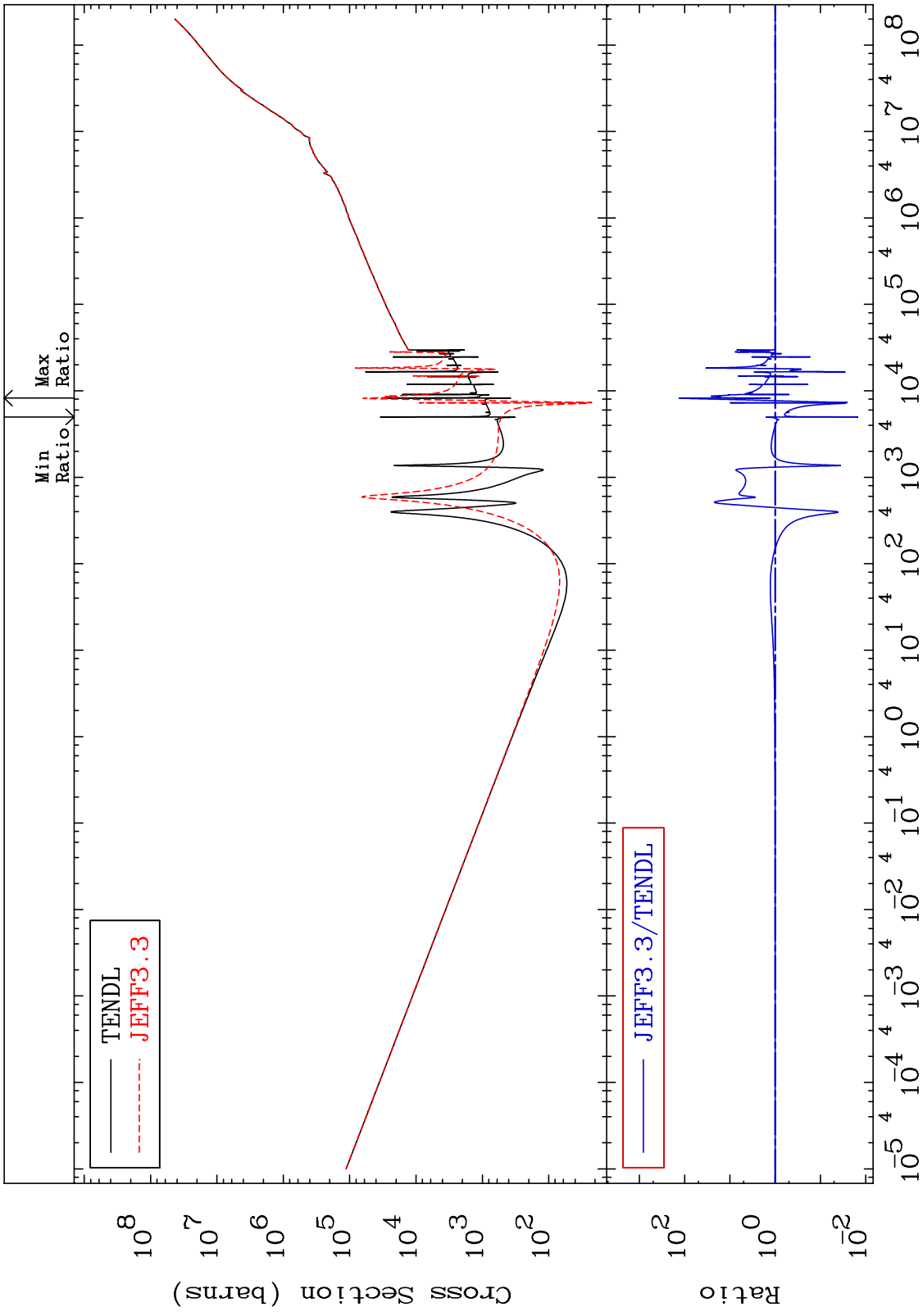


MAT 2840 He-4 Production Cross Section 28-Ni-63
 -1.057 To 742.1 %



57 28-Ni-63

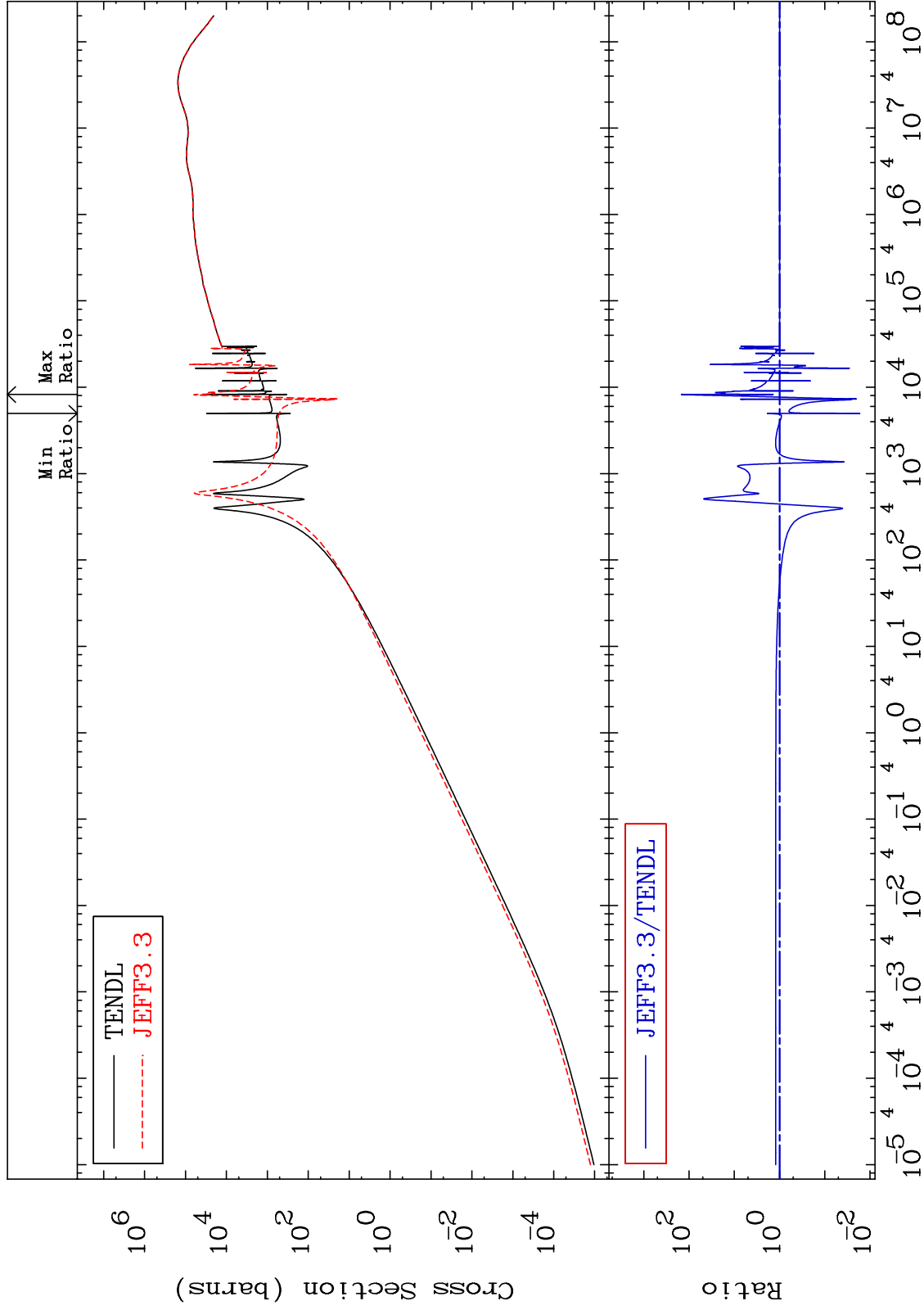
MAT 2840 Kerma total (eV-barns) 28-Ni-63
 Cross Section -98.51 To 9999. %



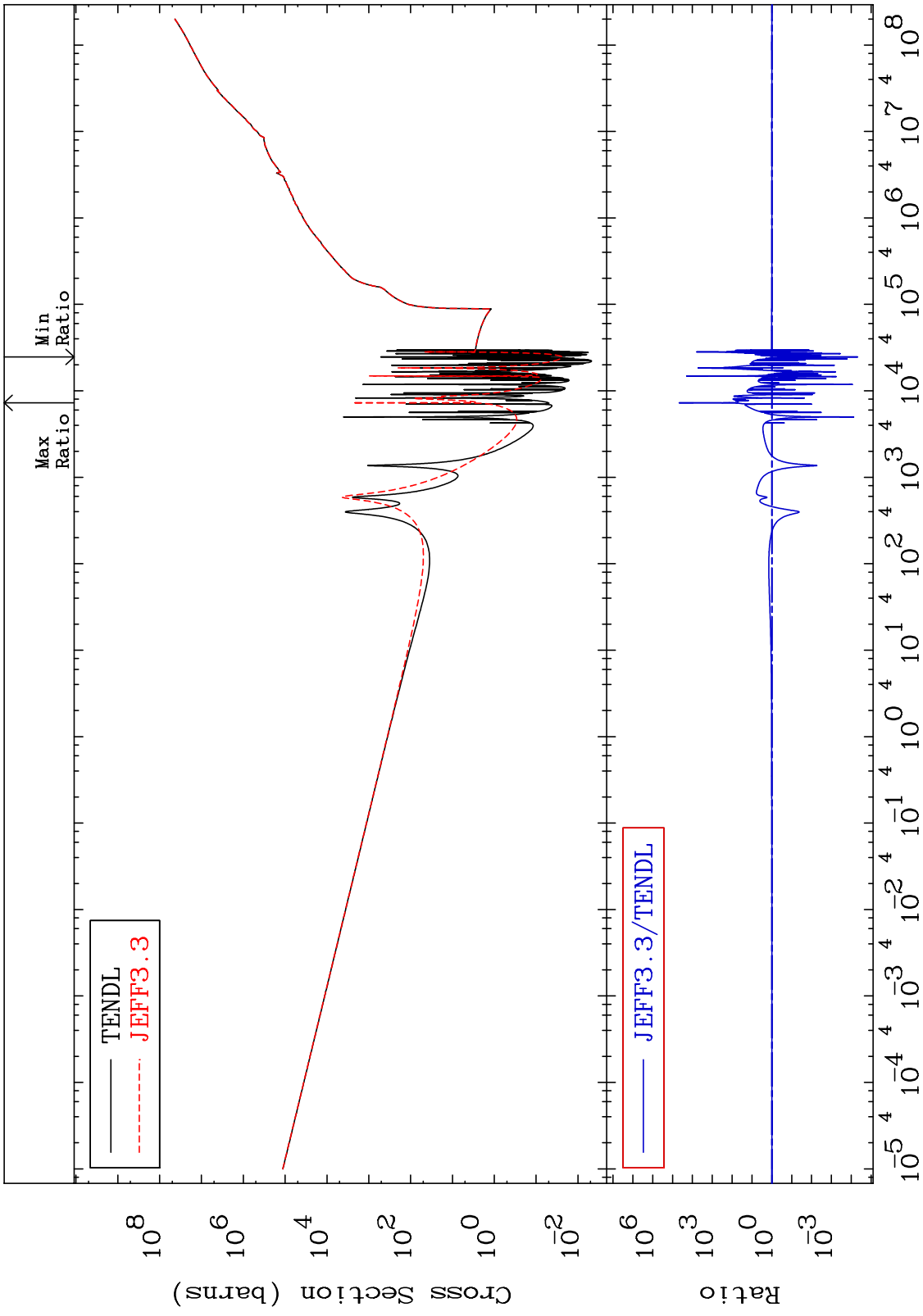
MAT 2840

Kerma elastic
Cross Section

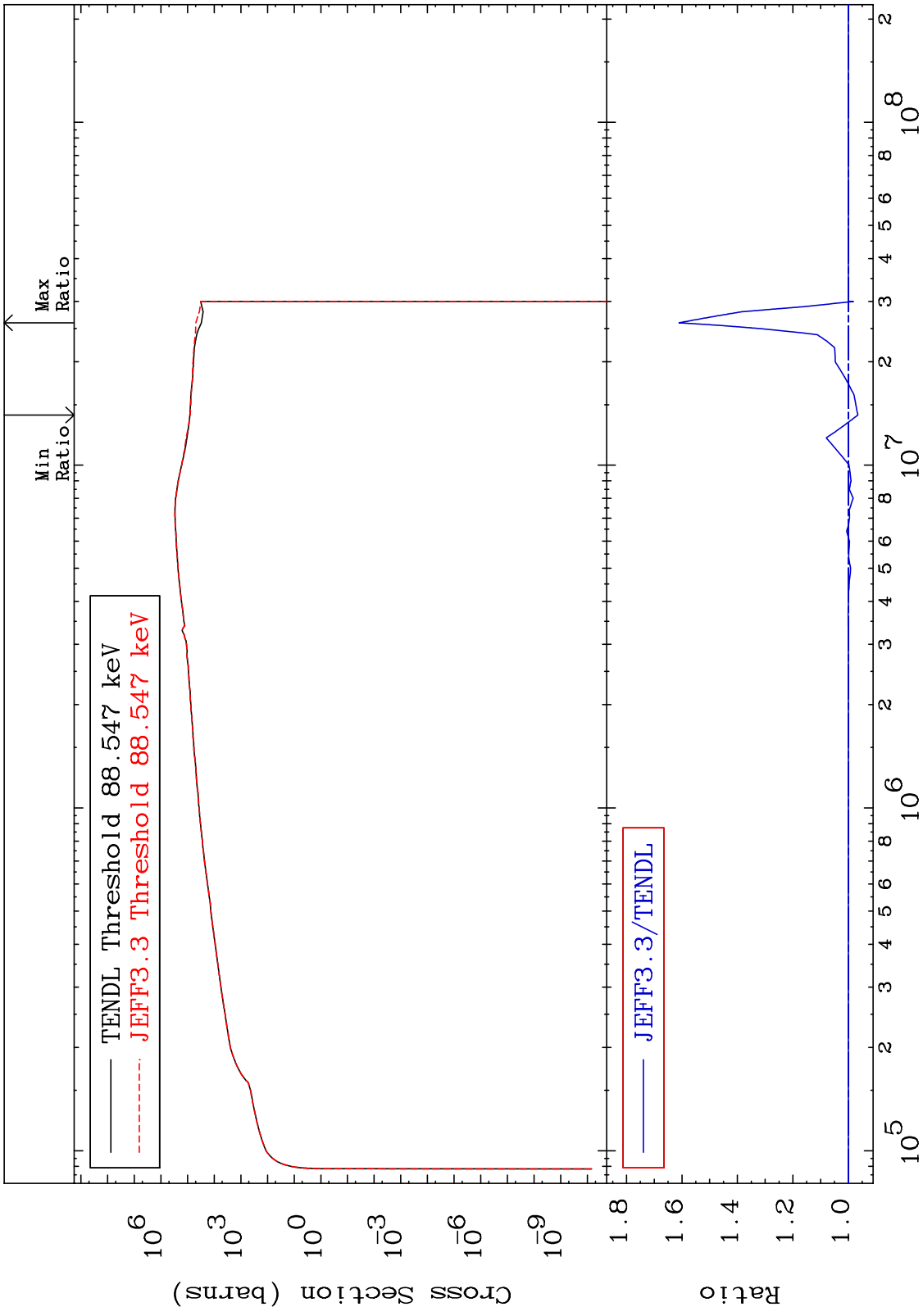
28-Ni-63
-98.32 To 9999. %



MAT 2840 Kerma non-elastic (all but mt2) 28-Ni-63
 -100.0 To 9999. %
 Cross Section



MAT 2840 Kerma inelastic (mt51-91) 28-Ni-63
 Cross Section -3.431 To 61.05 %

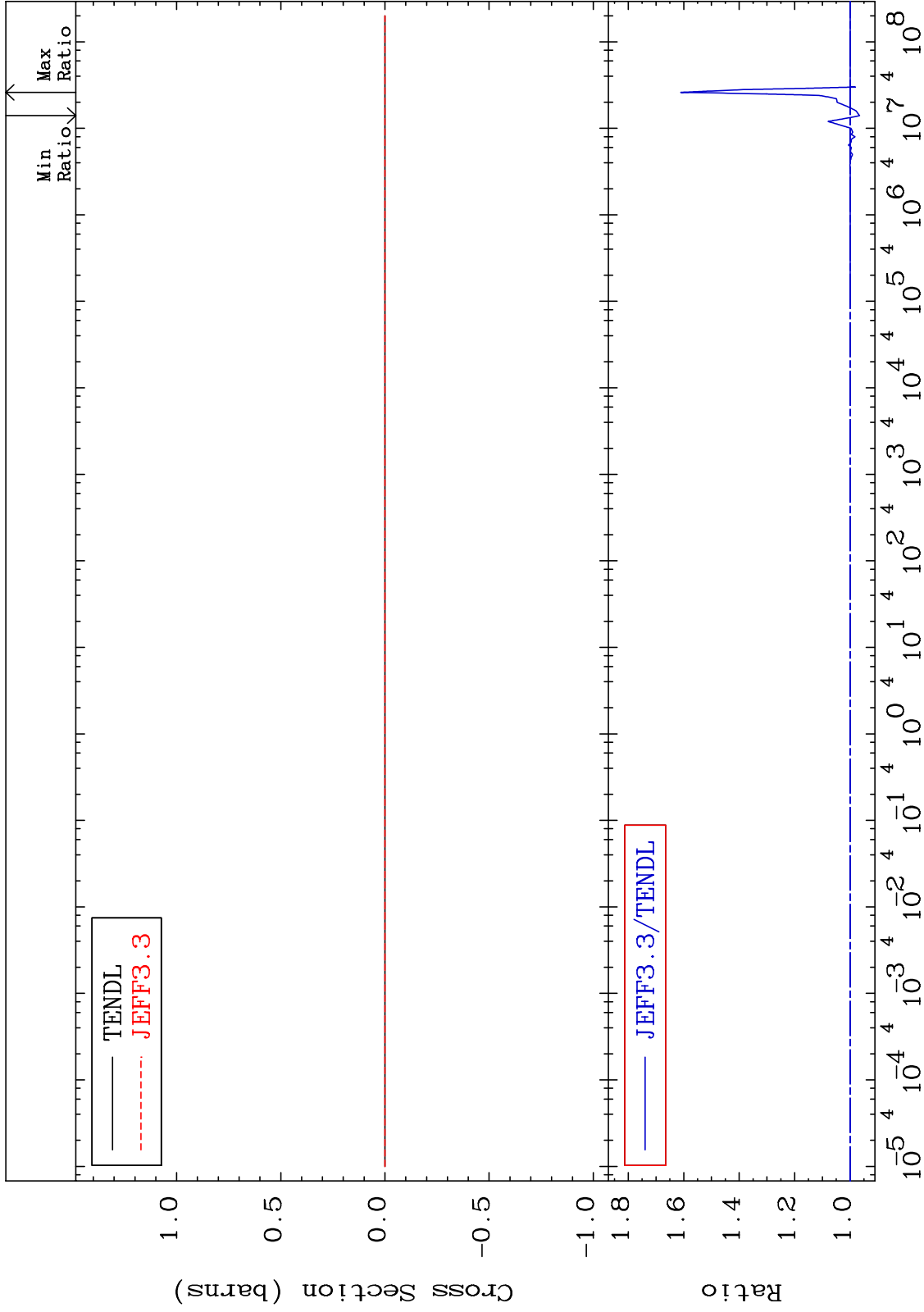


61 Incident Energy (eV) 28-Ni-63

MAT 2840

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

28-Ni-63
-3.431 To 61.05 %

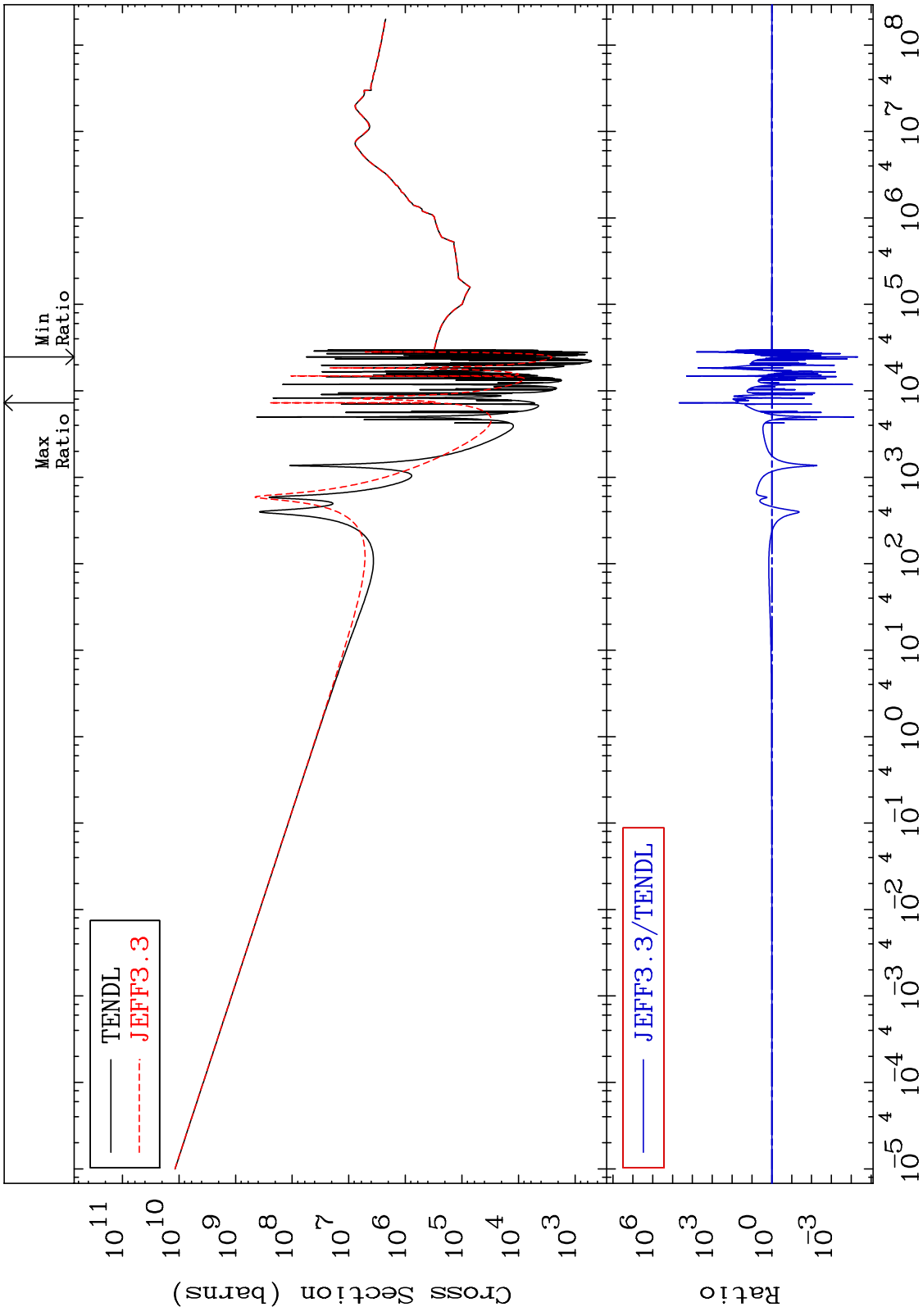


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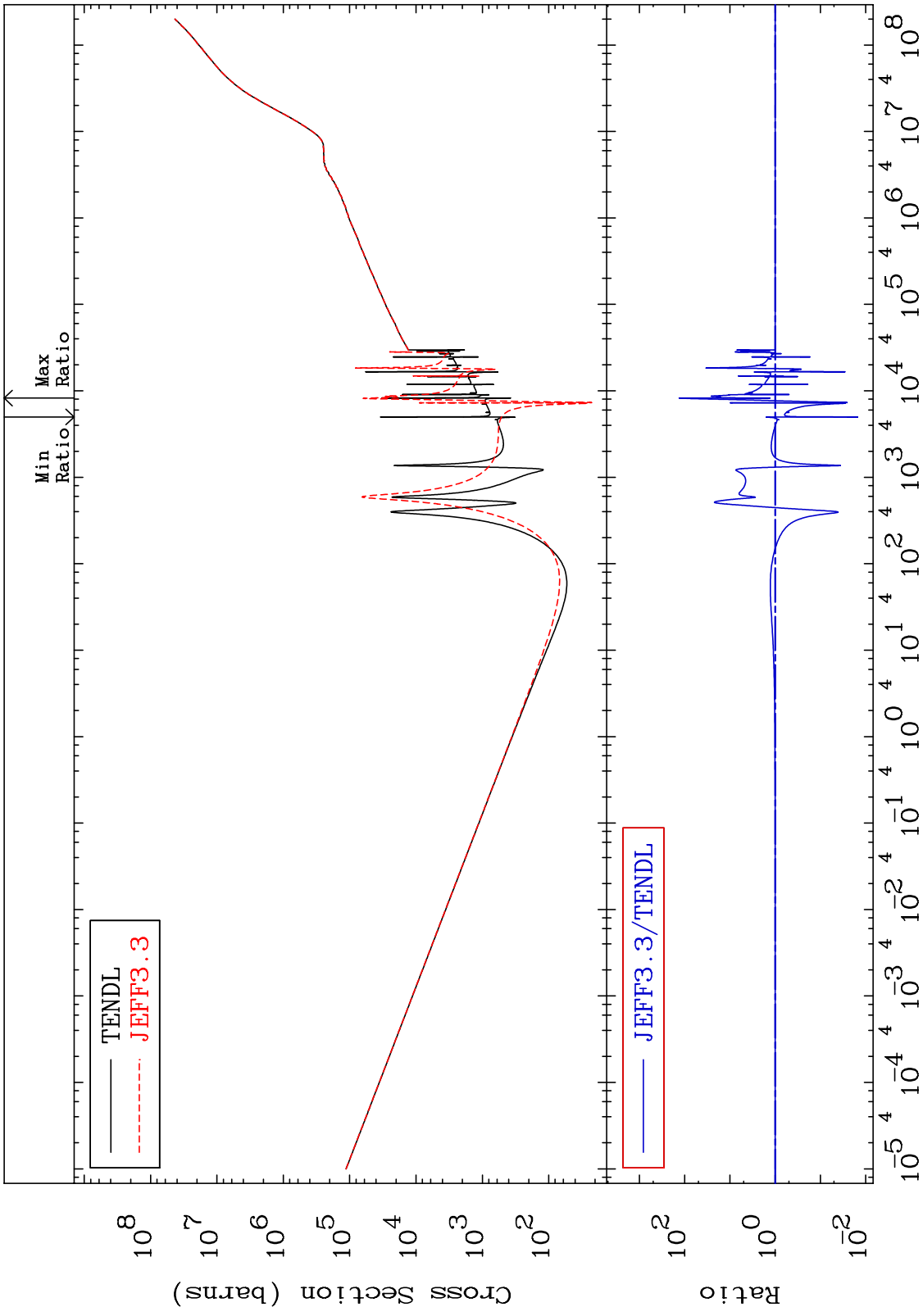
Incident Energy (eV)

28-Ni-63

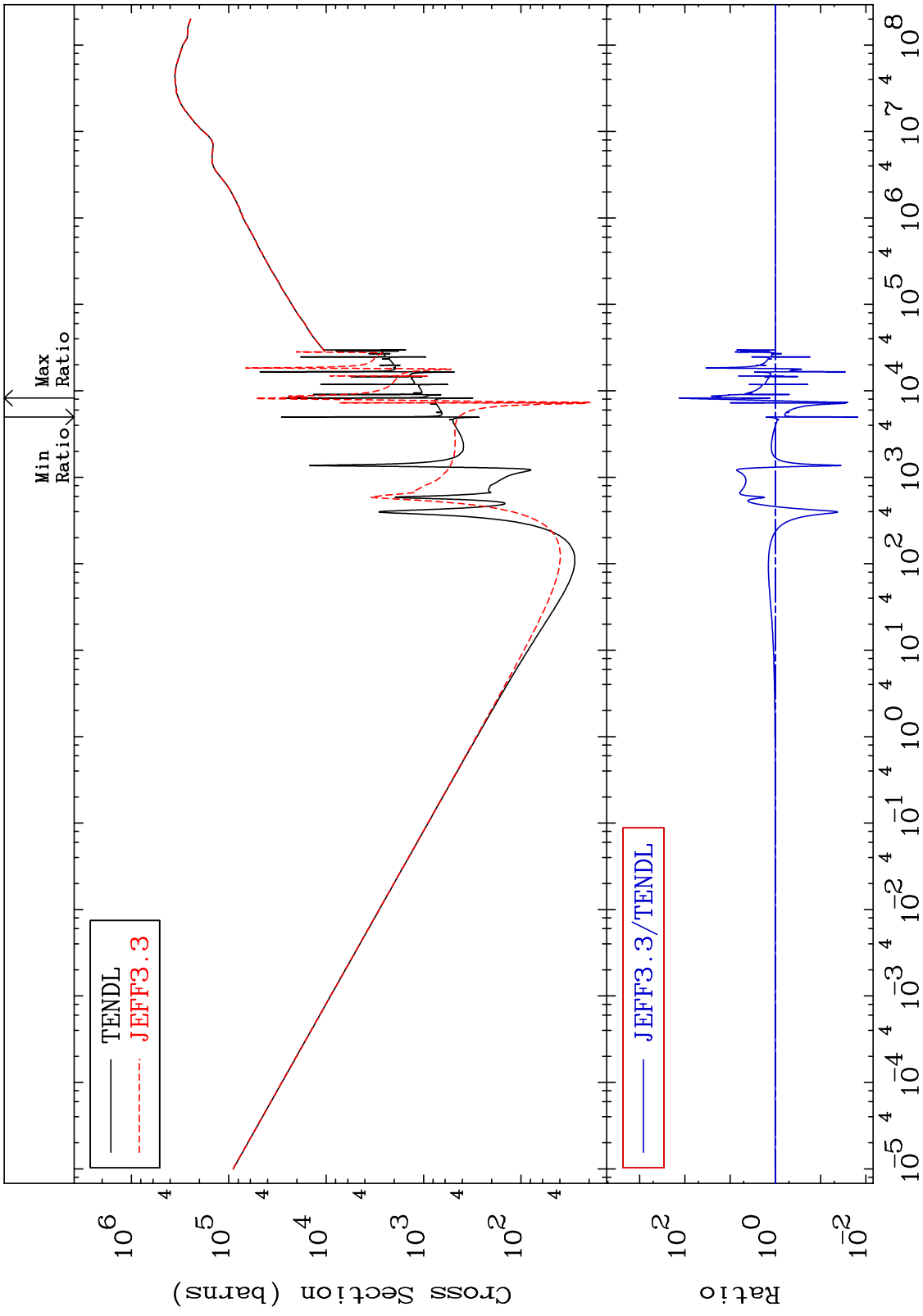
MAT 2840 28-Ni-63
 Total photon (eV-barns) -100.0 To 9999. %
 Cross Section



MAT 2840 Total kinematic kerma (high limit) 28-Ni-63
 Cross Section -98.51 To 9999. %



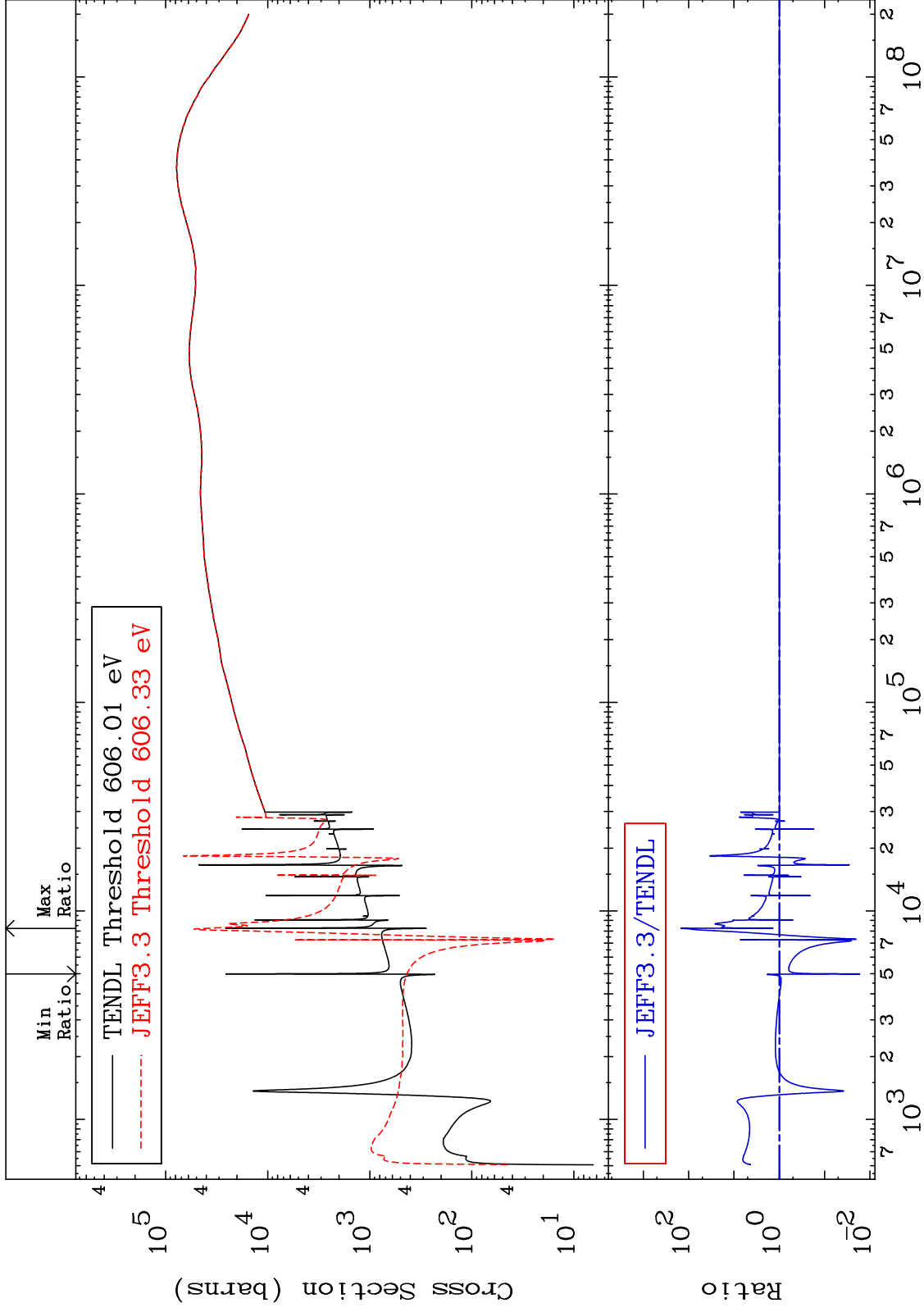
MAT 2840 28-Ni-63
 Dpa total (eV-barns) -98.50 To 9999. %
 Cross Section



MAT 2840

Dpa elastic (mt2)
Cross Section

28-Ni-63
-98.32 To 9999. %

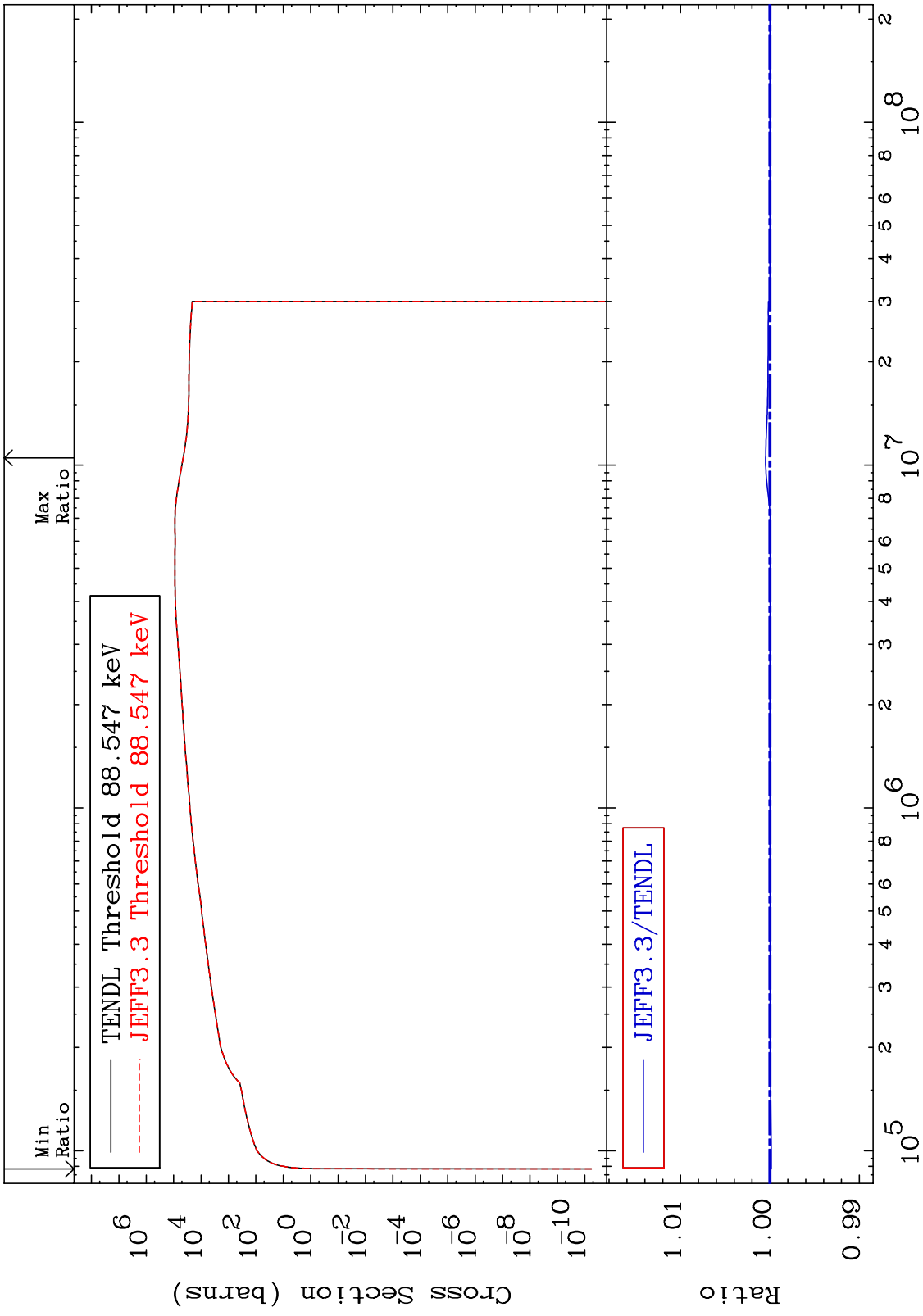


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Incident Energy (eV)

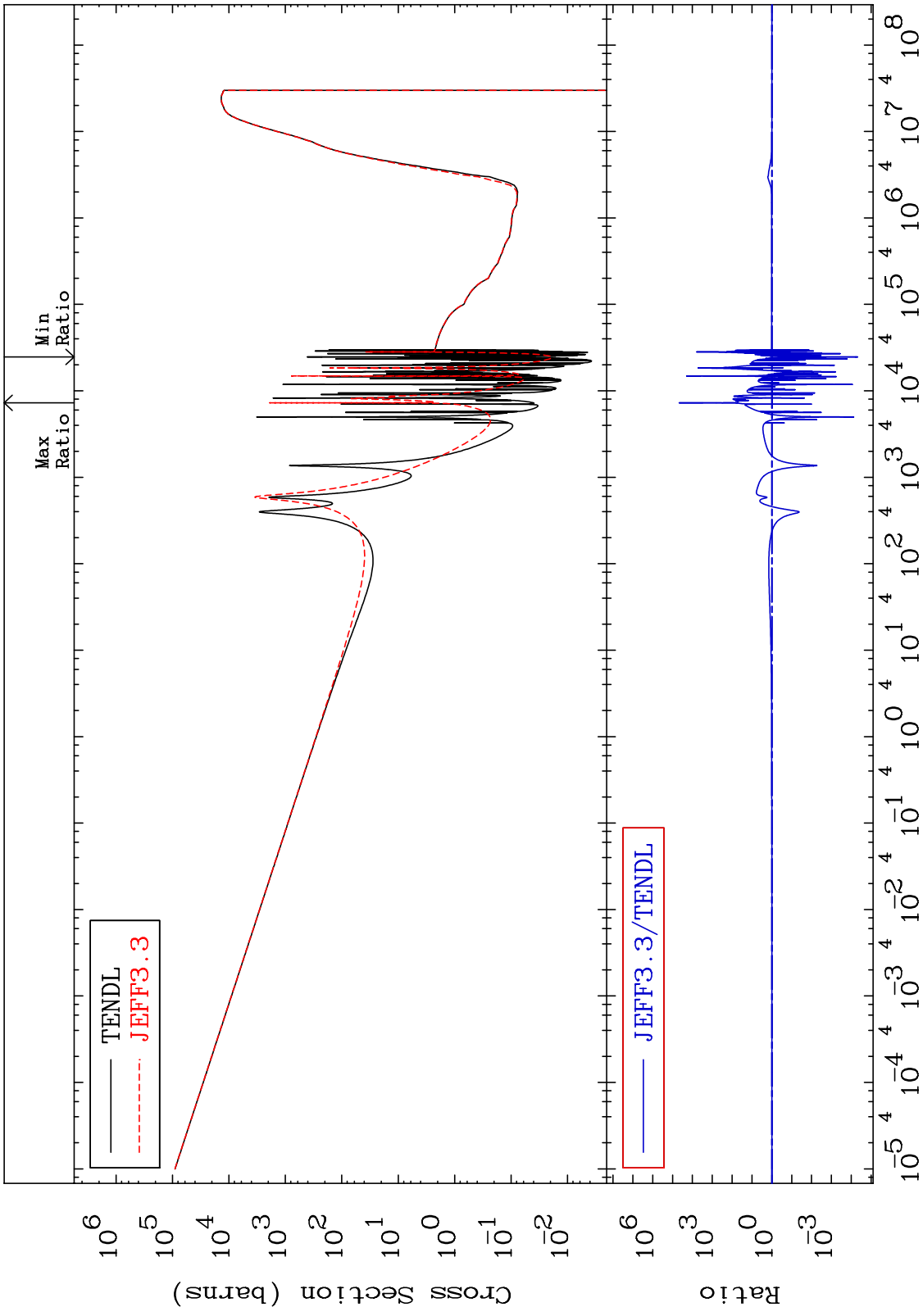
28-Ni-63

MAT 2840 Dpa inelastic (mt51-91) 28-Ni-63
 Cross Section -0.015 To 0.049 %

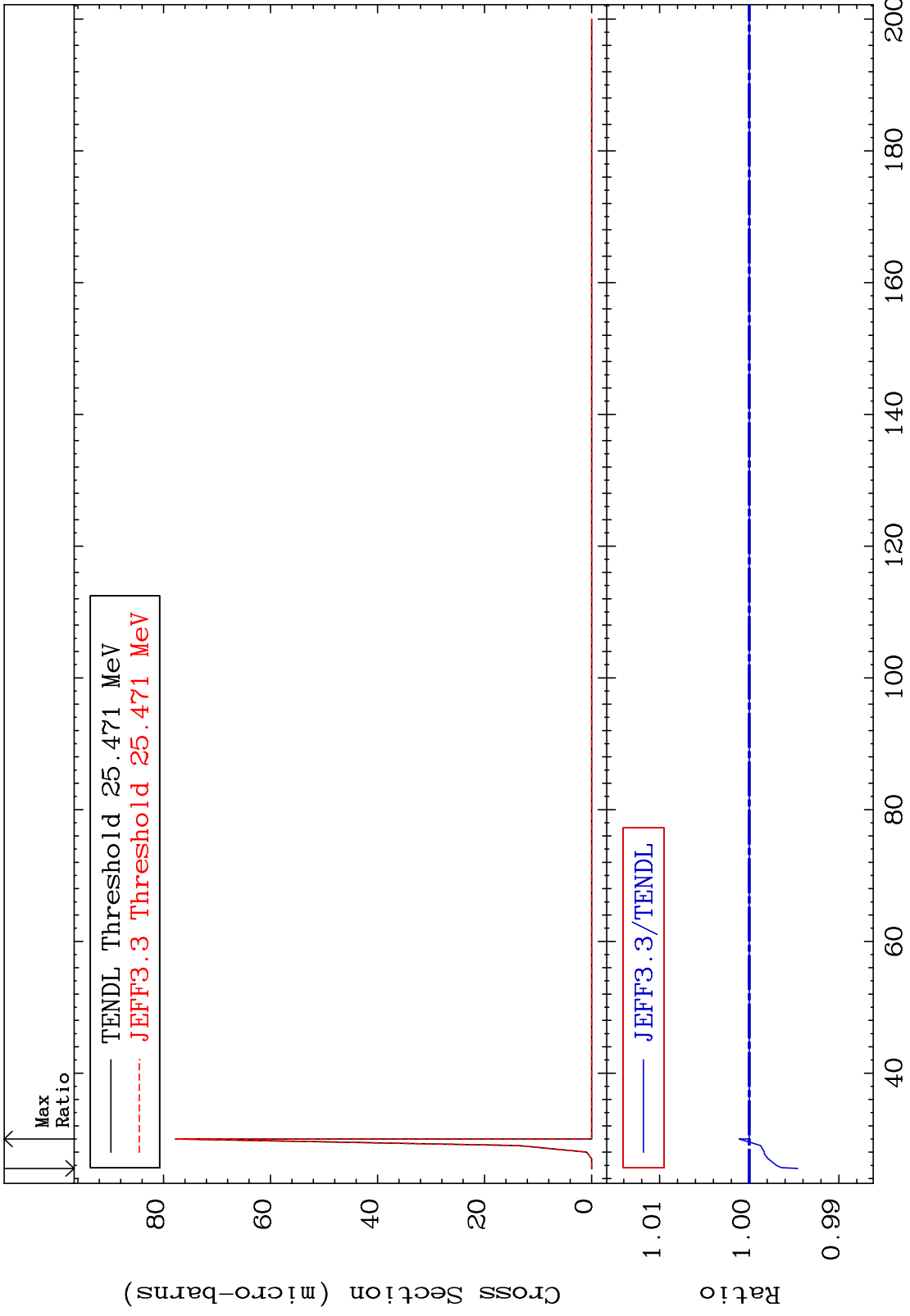


68 Incident Energy (eV) 28-Ni-63

MAT 2840 Dpa disappearance (mt102 -120) 28-Ni-63
 Cross Section -100.0 To 9999. %



MAT 2840 (n,2n) d:27-Co-60g 28-Ni-63
Radionuclide Production Cross Section -0.542 To 0.111 %



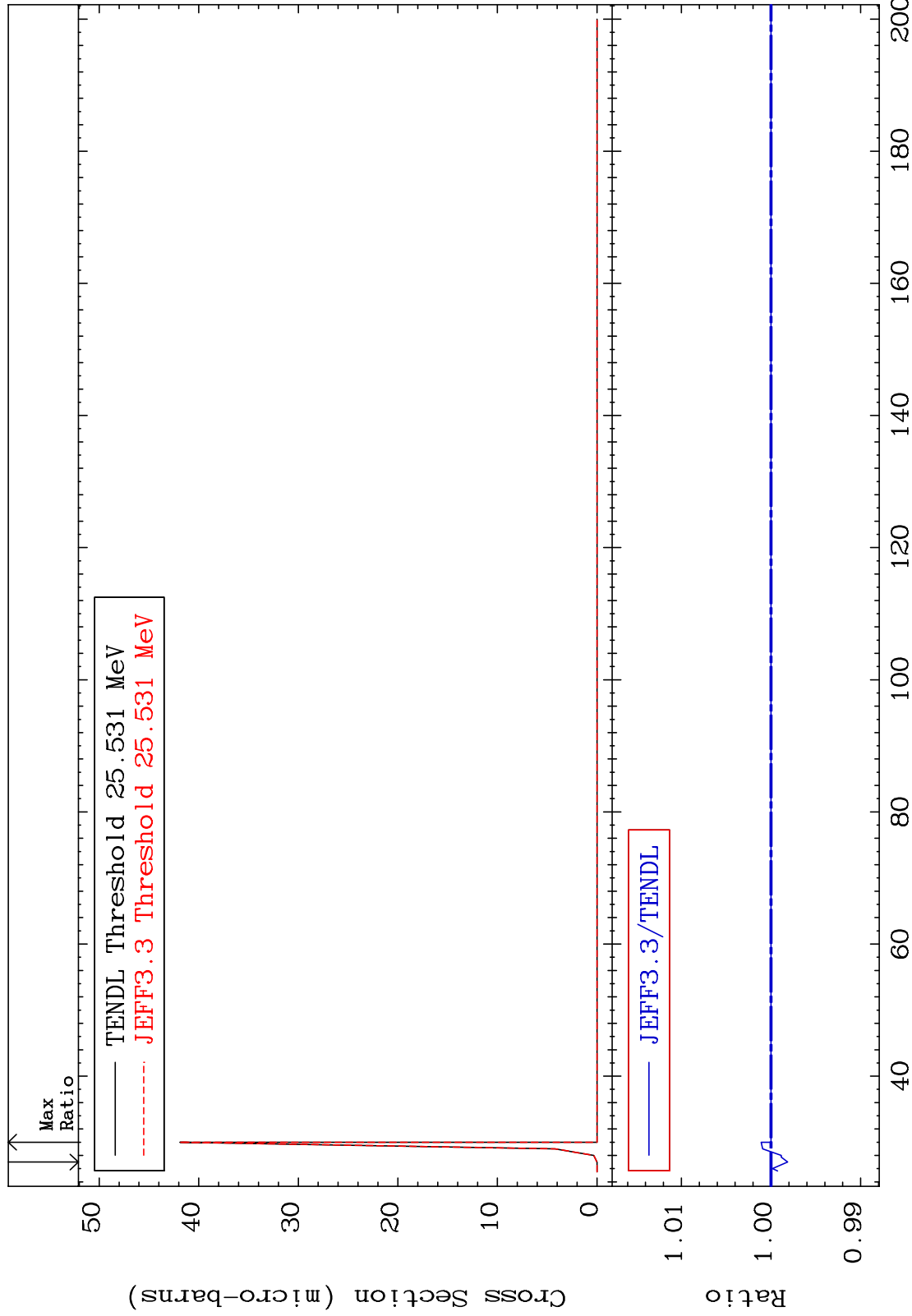
70 28-Ni-63

MAT 2840

(n,2n) d:27-Co-60m1

28-Ni-63

Radionuclide Production Cross Section -0.185 To 0.111 %

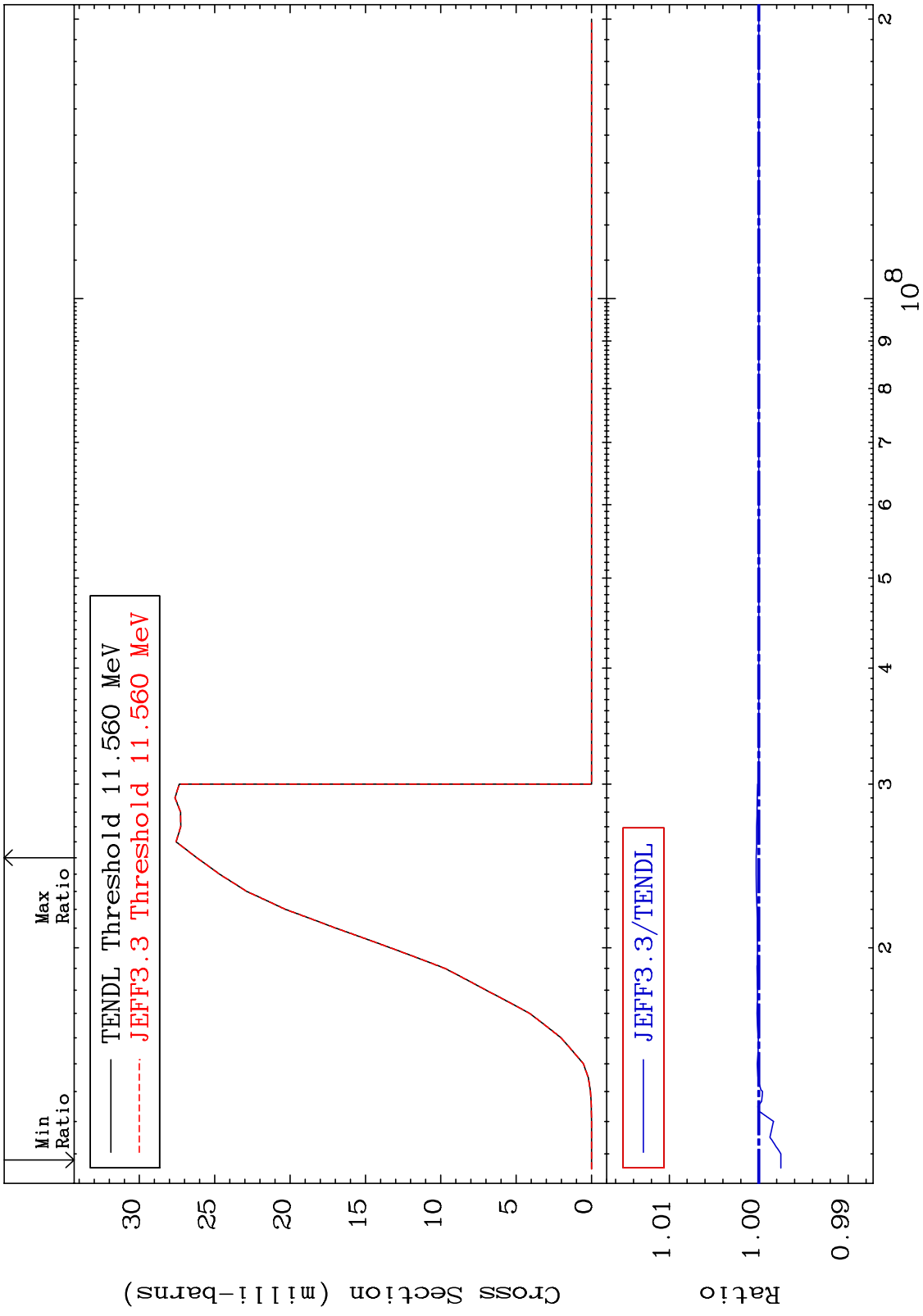


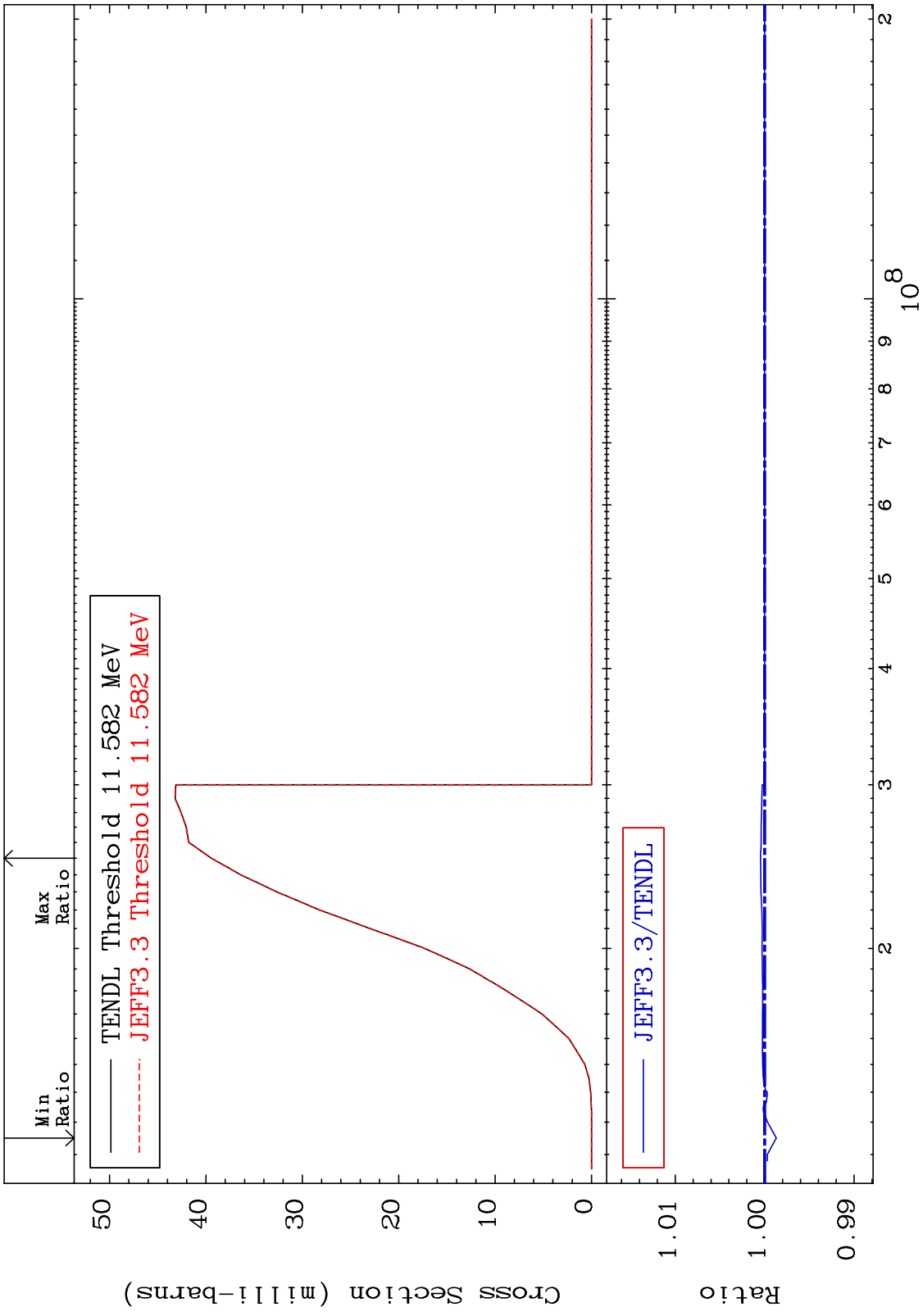
71

Incident Energy (MeV)

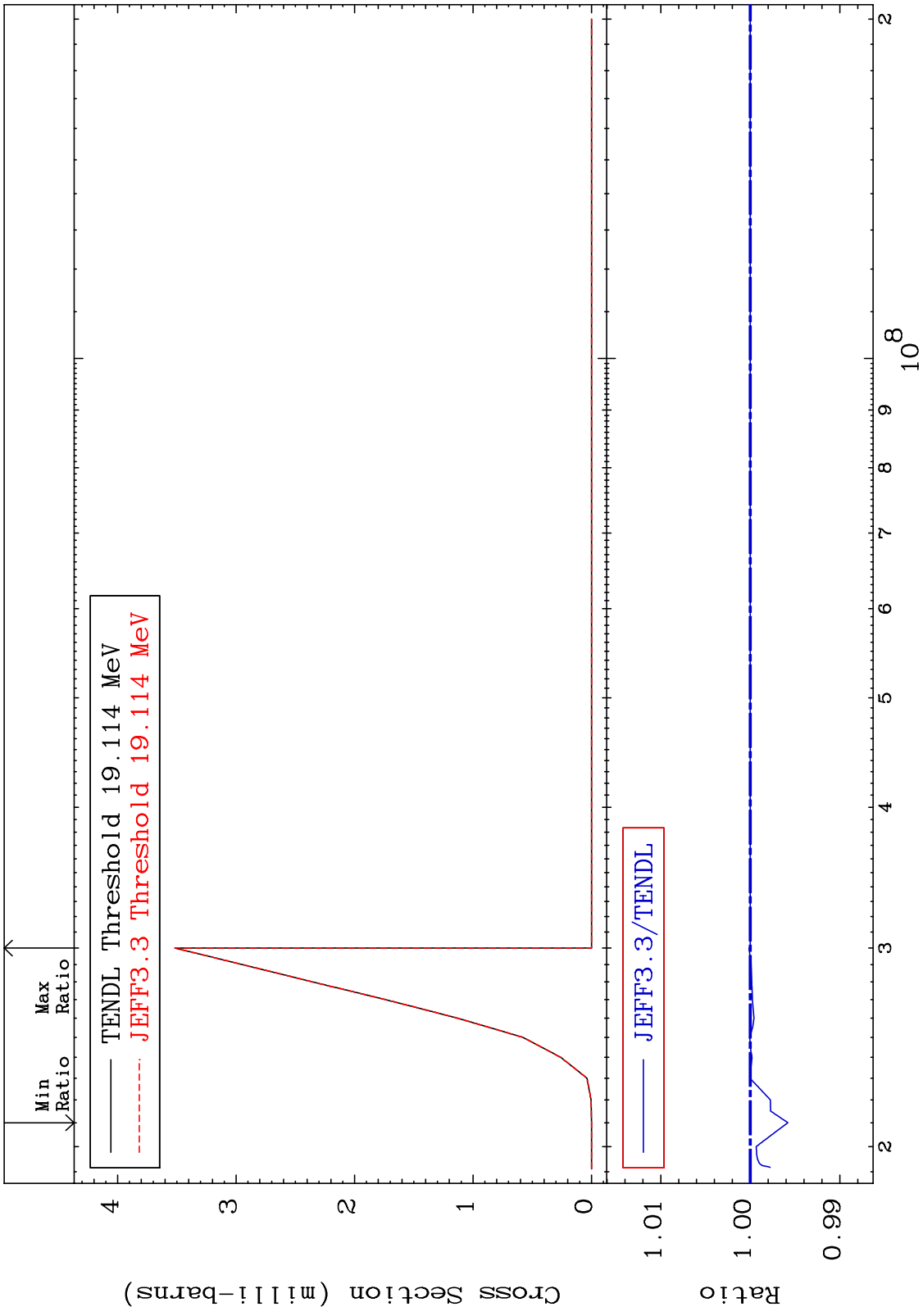
28-Ni-63

MAT 2840 (n,n') p:27-Co-62g 28-Ni-63
 Radionuclide Production Cross Section -0.247 To 0.030 %

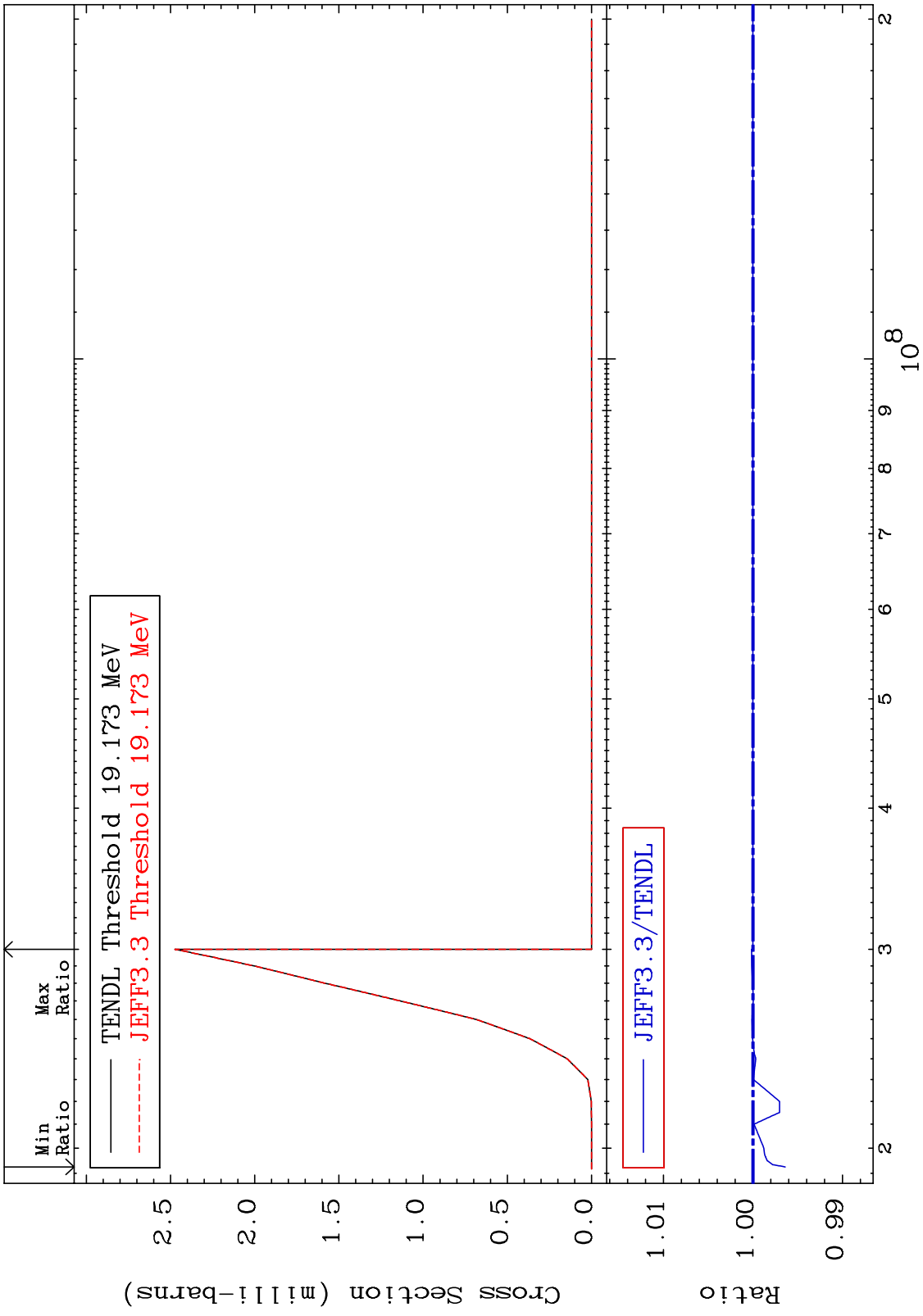




MAT 2840 (n, n') t:27-Co-60g 28-Ni-63
 Radionuclide Production Cross Section -0.419 To 0.015 %



MAT 2840 (n,n') t:27-Co-60m1 28-Ni-63
 Radionuclide Production Cross Section -0.361 To 0.015 %

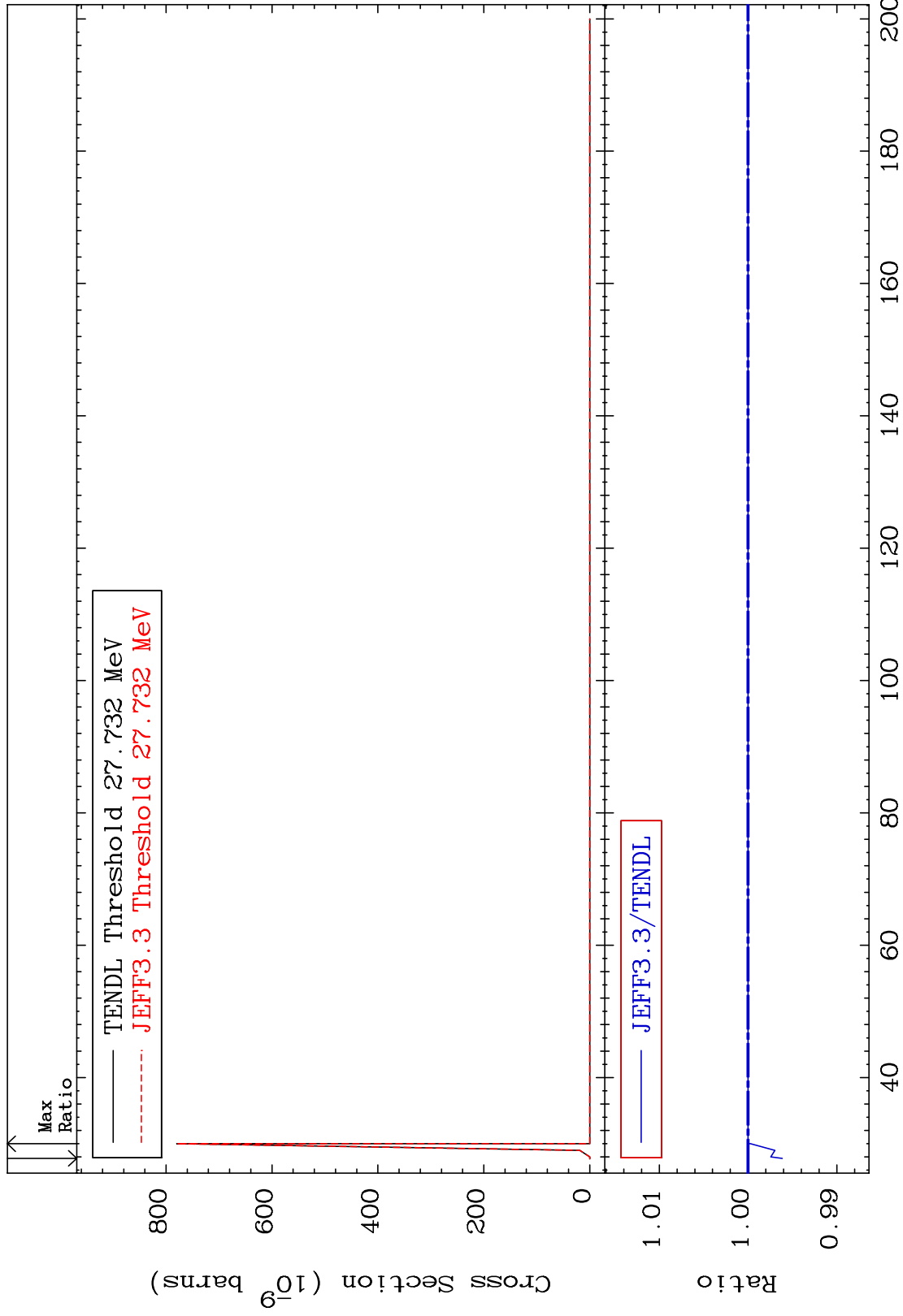


MAT 2840

(n,3n) p:27-Co-60g

28-Ni-63

Radionuclide Production Cross Section -0.385 To 0.000 %



76

Incident Energy (MeV)

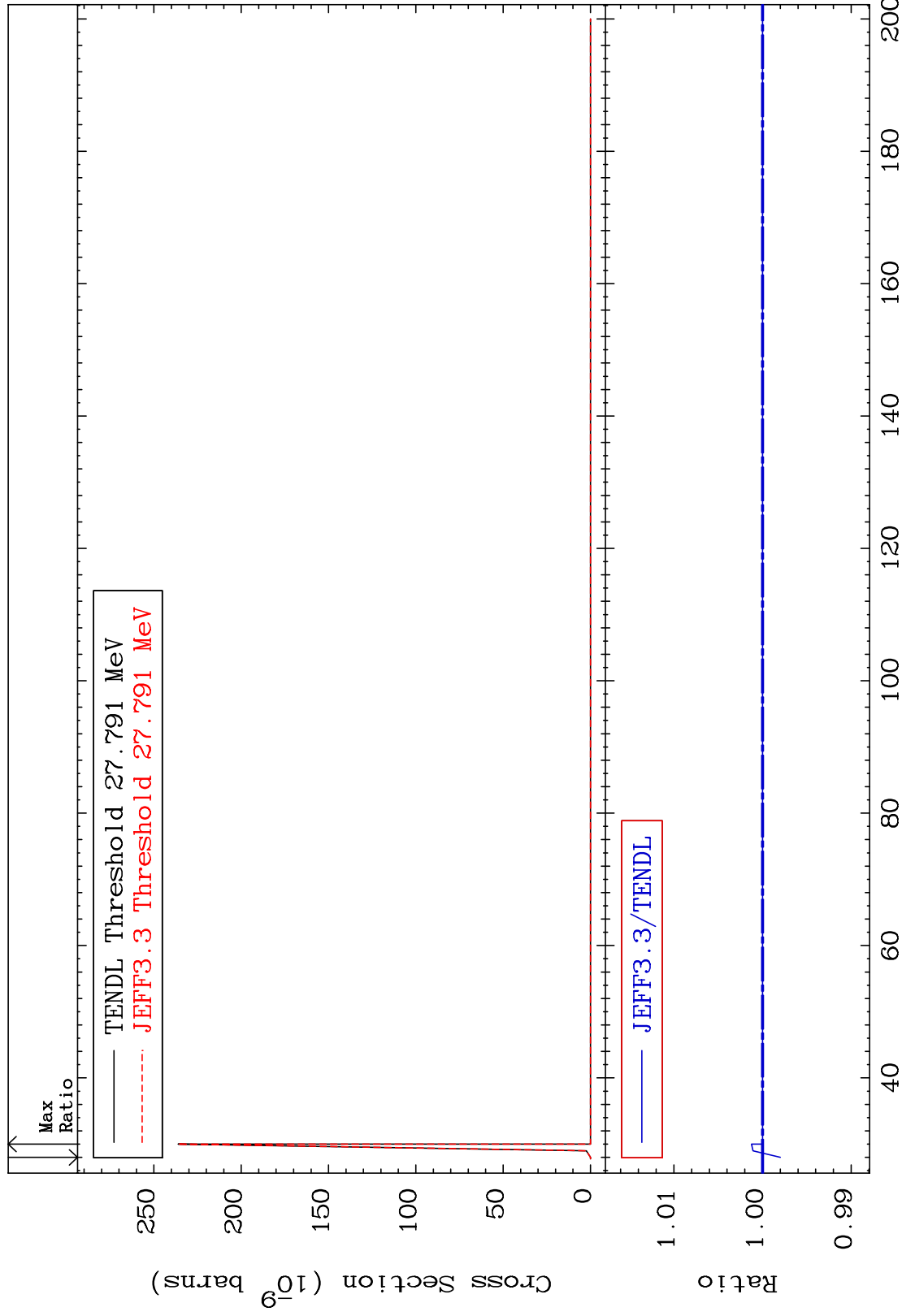
28-Ni-63

MAT 2840

(n,3n) p:27-Co-60m1

28-Ni-63

Radionuclide Production Cross Section -0.200 To 0.126 %

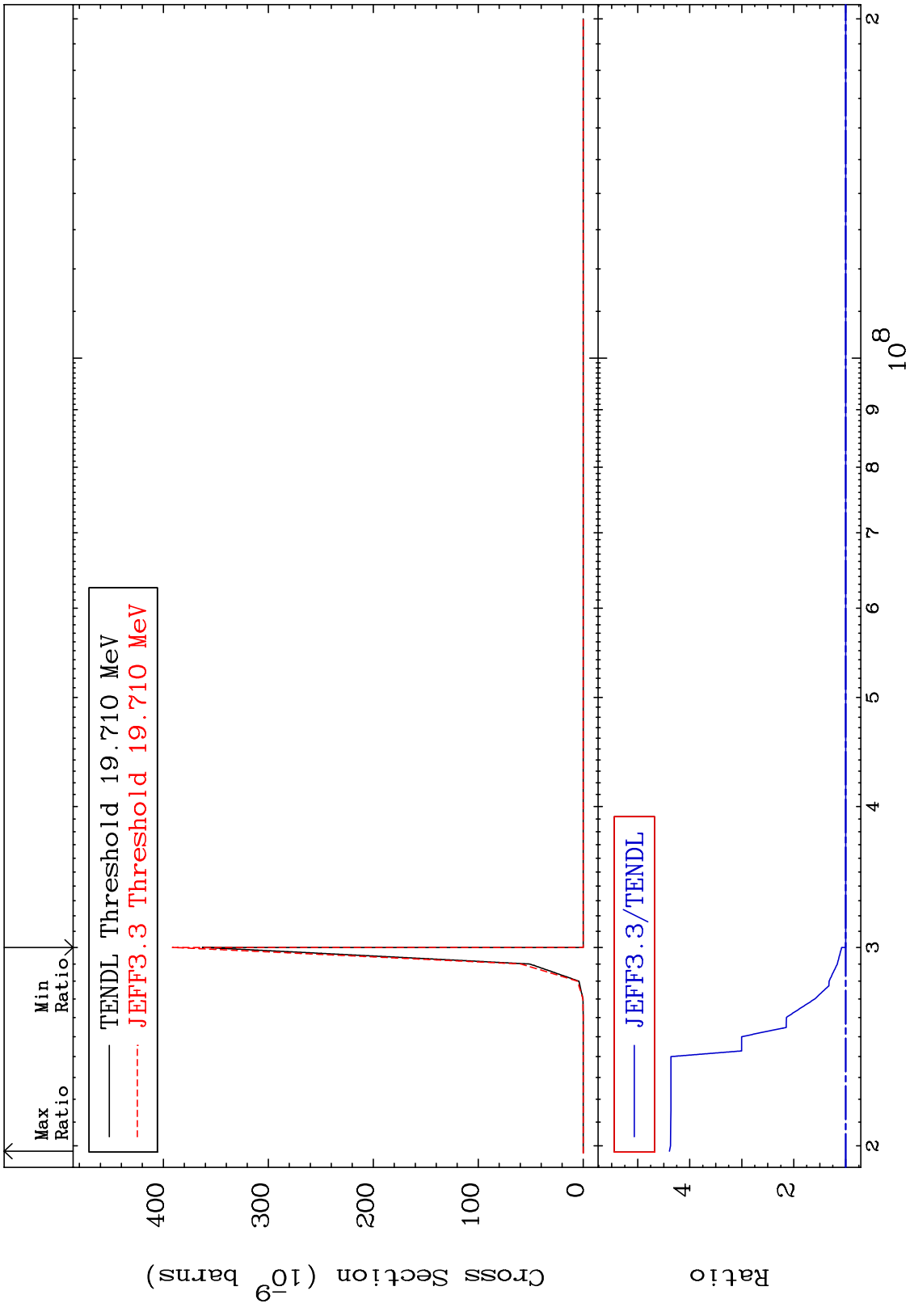


77

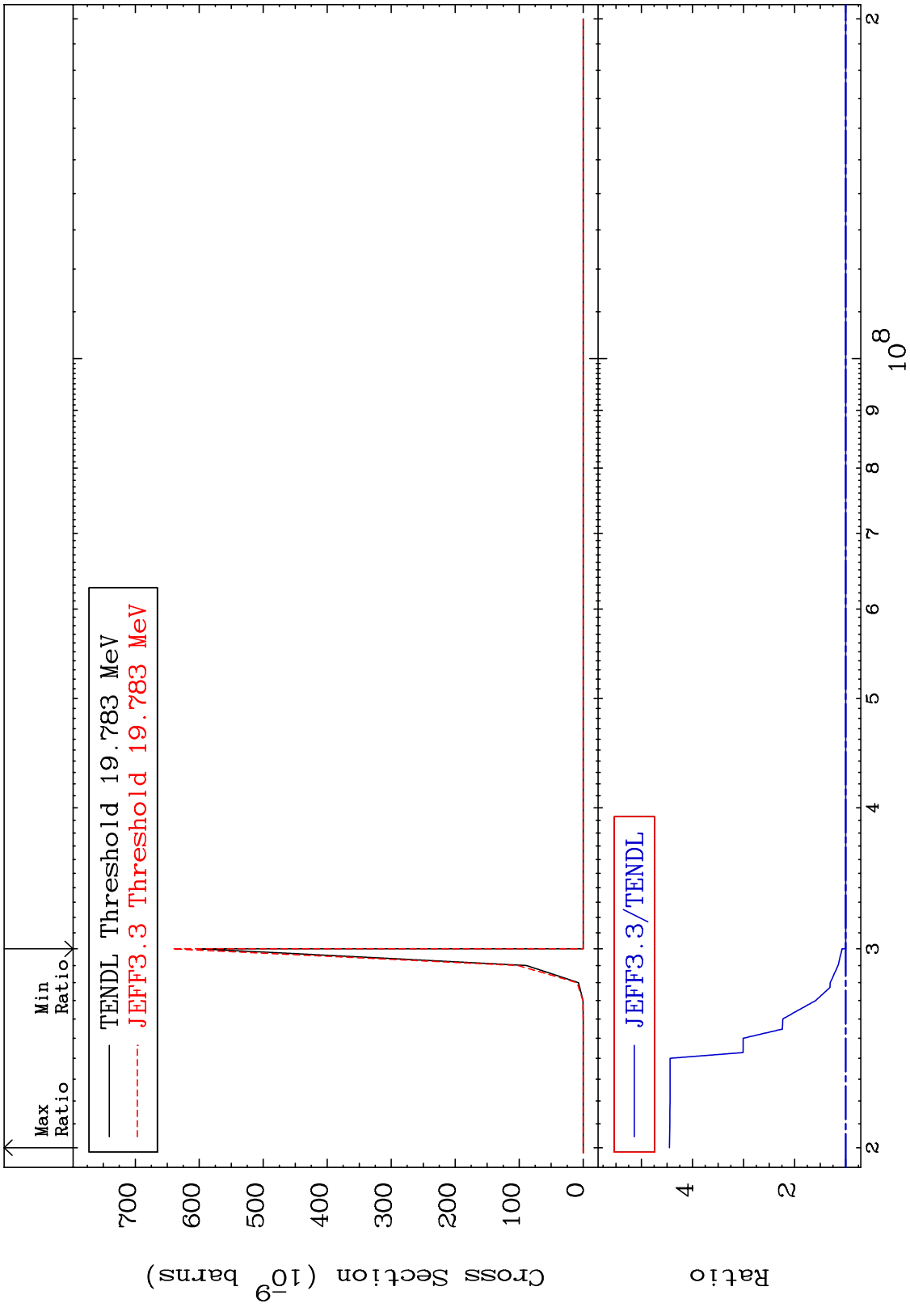
Incident Energy (MeV)

28-Ni-63

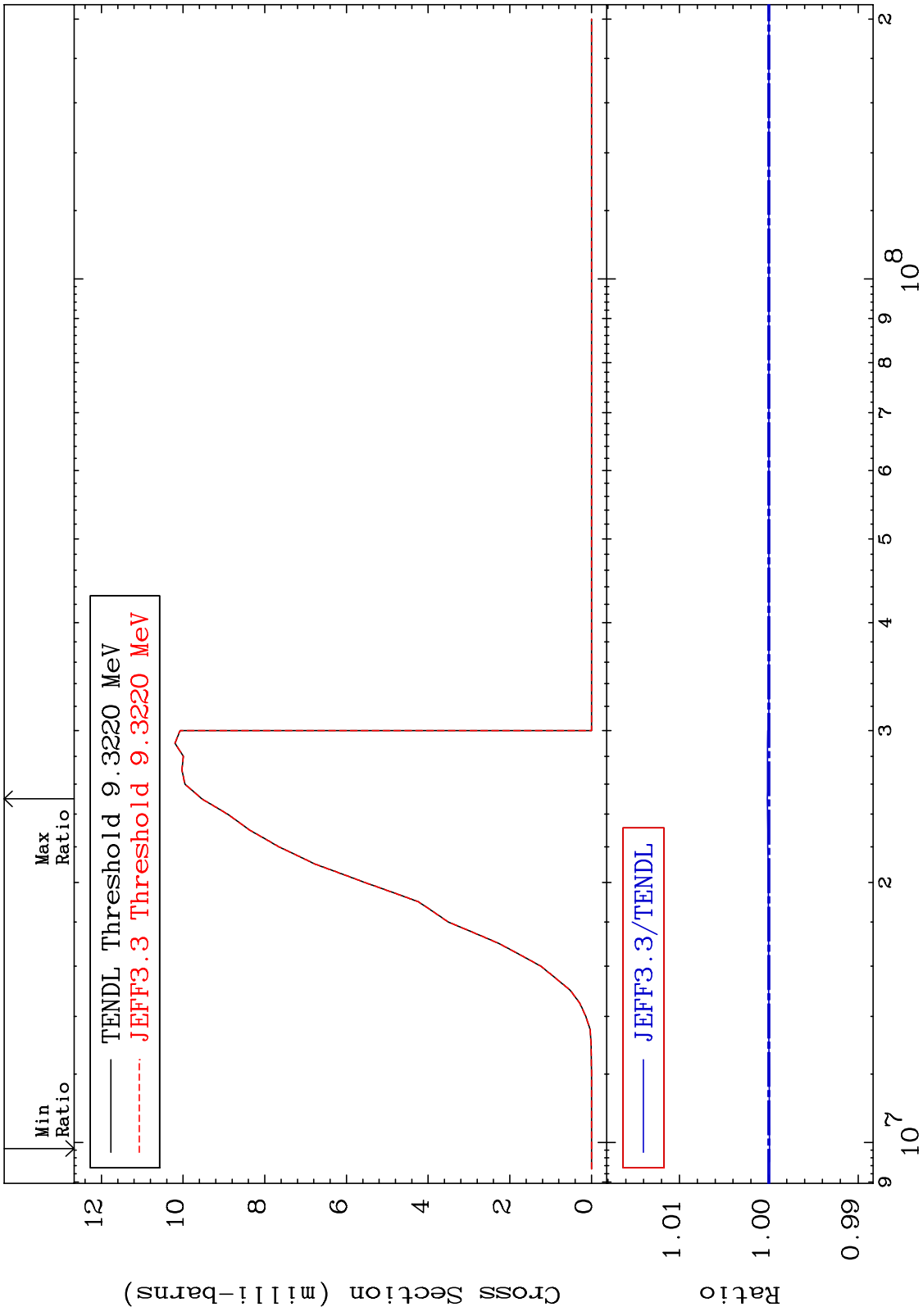
MAT 2840 (n,n') p α :25-Mn-58g 28-Ni-63
 Radionuclide Production Cross Section 0.000 To 339.0 %



MAT 2840 (n,n') p α:25-Mn-58m1 28-Ni-63
 Radionuclide Production Cross Section 0.000 To 345.1 %

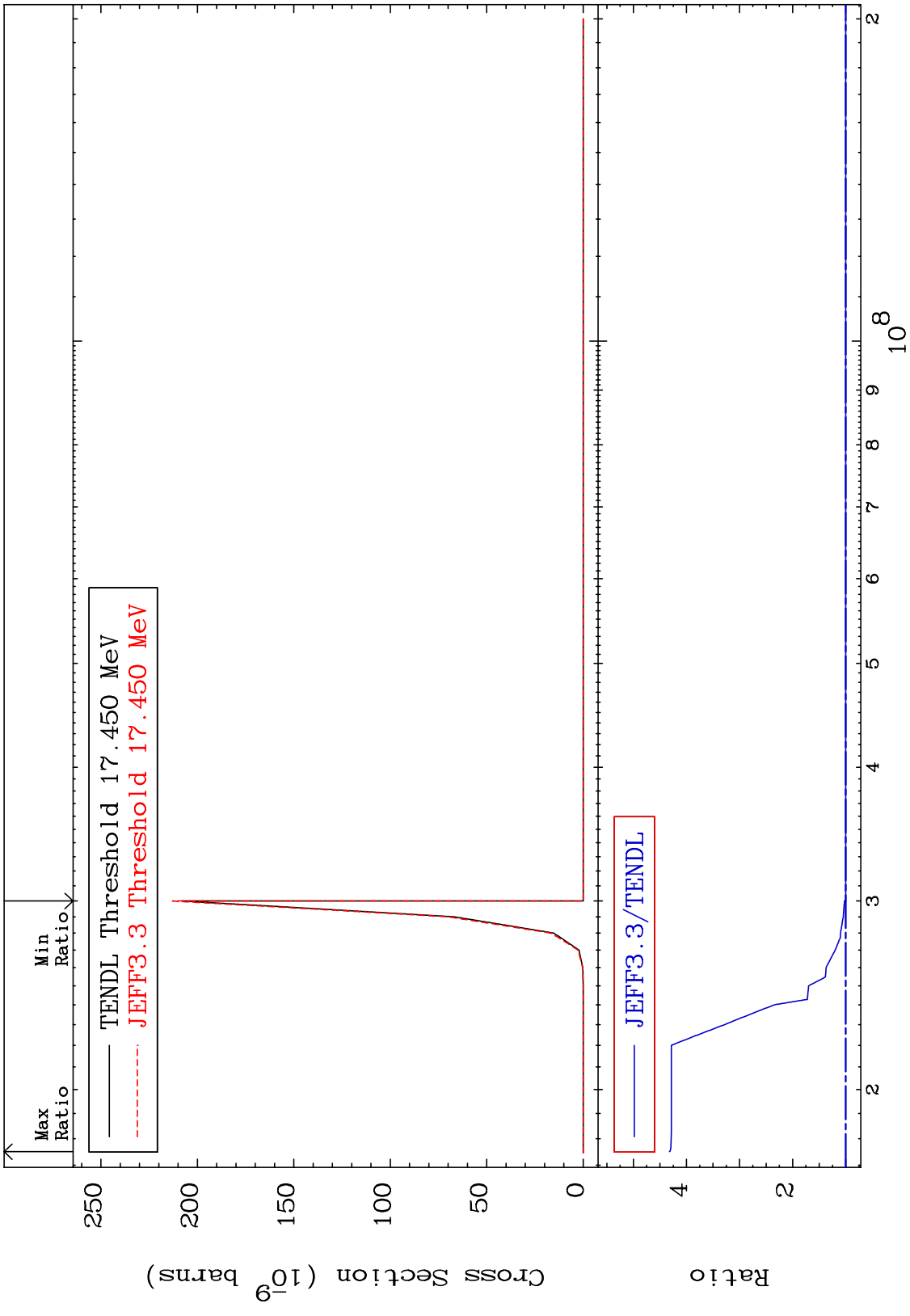


MAT 2840 (n,d):27-Co-62m1 28-Ni-63
Radionuclide Production Cross Section -0.008 To 0.017 %



80 80 28-Ni-63

MAT 2840 (n,d) α :25-Mn-58g 28-Ni-63
Radionuclide Production Cross Section 0.000 To 332.0 %



MAT 2840 (n, d) α :25-Mn-58m1 28-Ni-63
 Radionuclide Production Cross Section 0.000 To 335.6 %

