

Program Complot  
(Version 2018-1)

by

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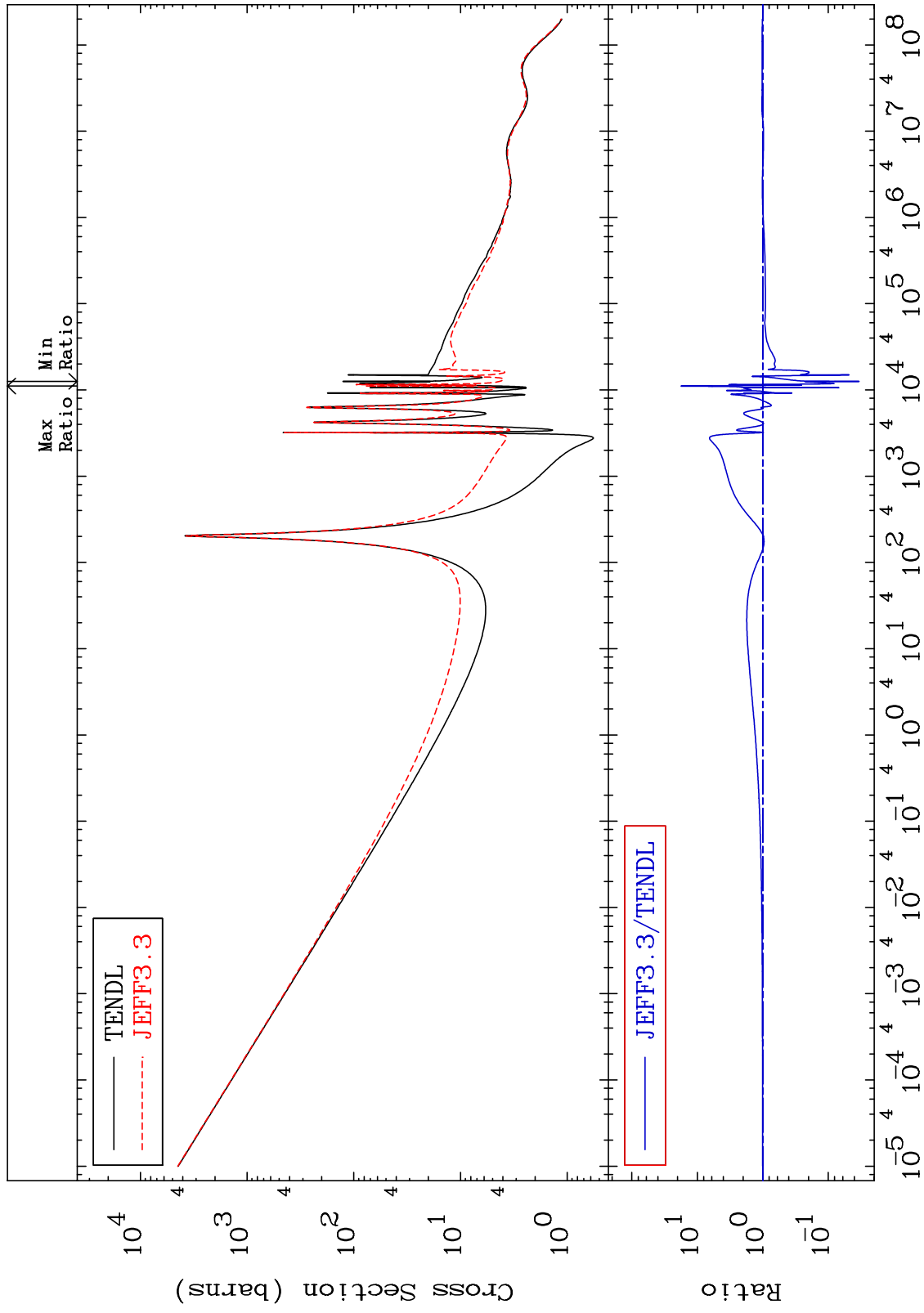
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 2828

Total  
Cross Section

28-Ni-59  
-96.61 To 1697. %



1

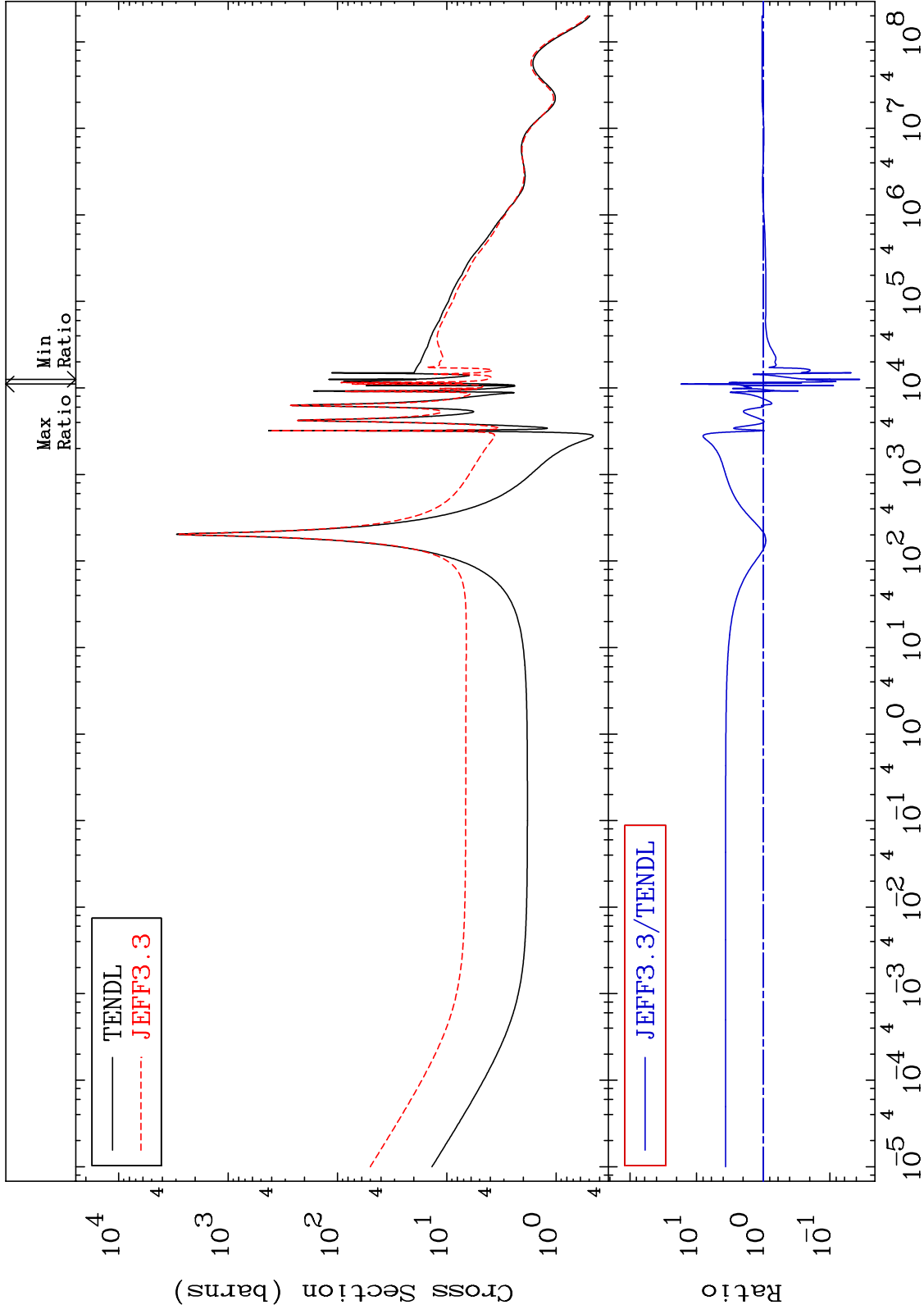
Incident Energy (eV)

28-Ni-59

MAT 2828

Elastic  
Cross Section

28-Ni-59  
-96.44 To 1626. %

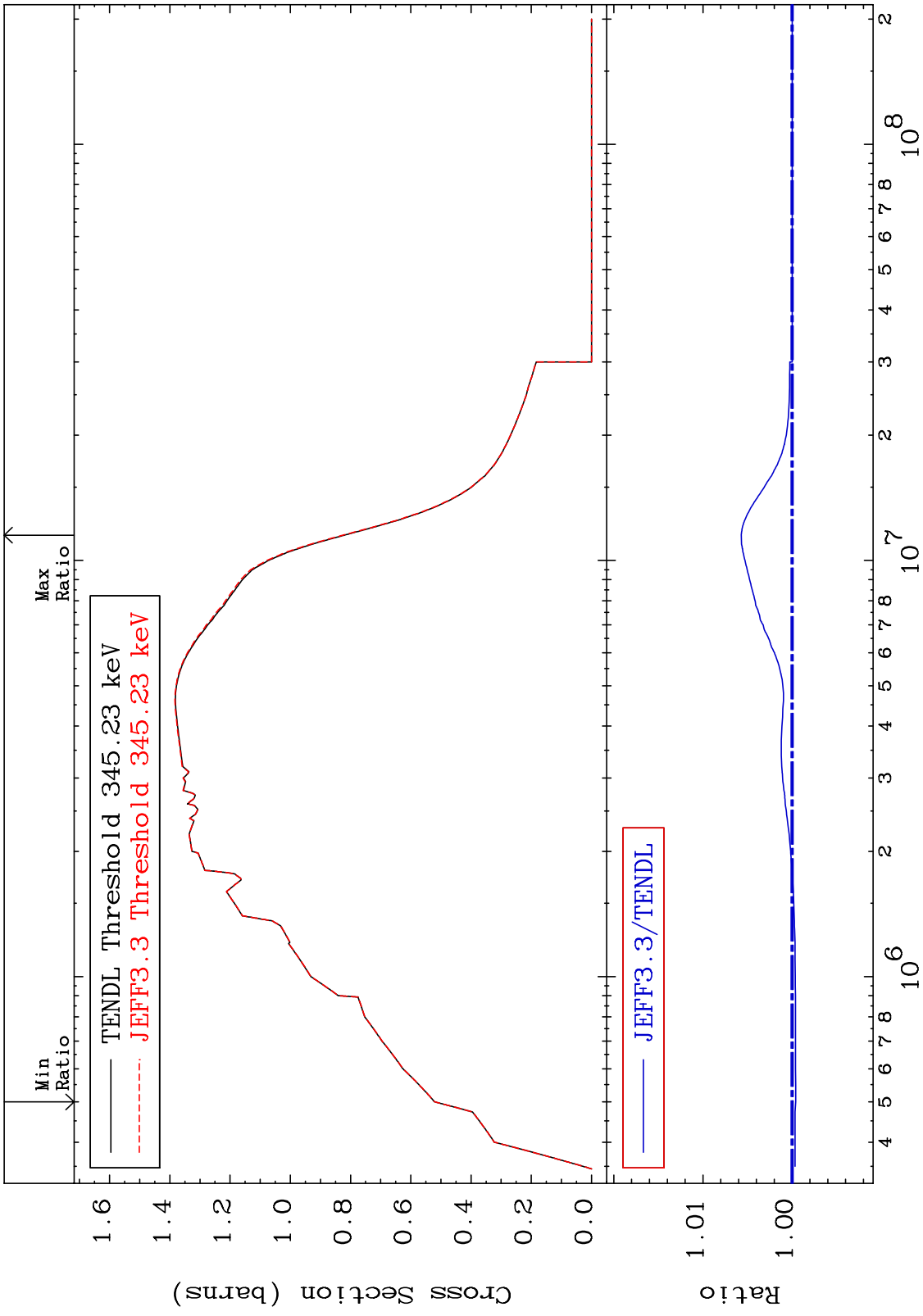


2

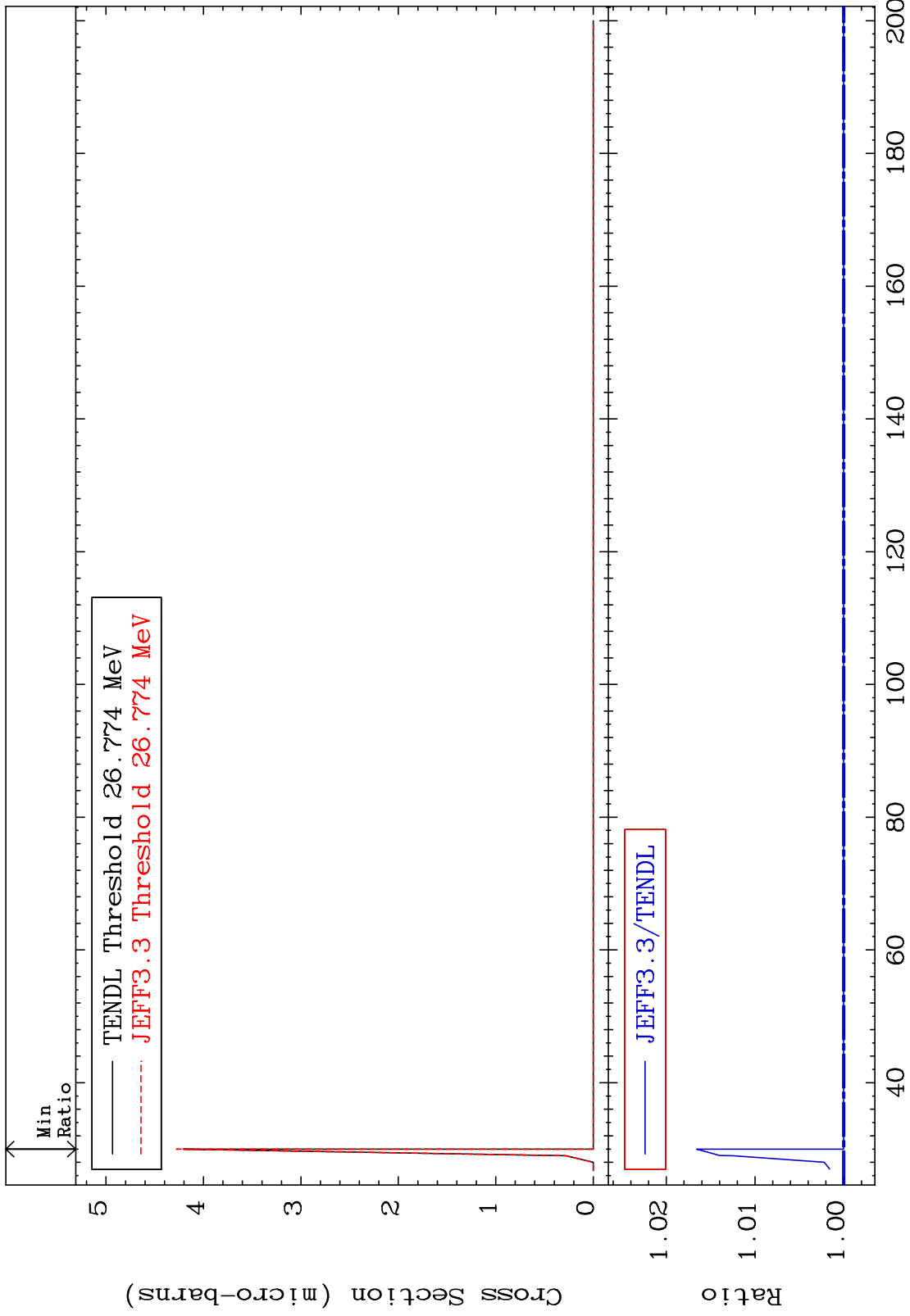
Incident Energy (eV)

28-Ni-59

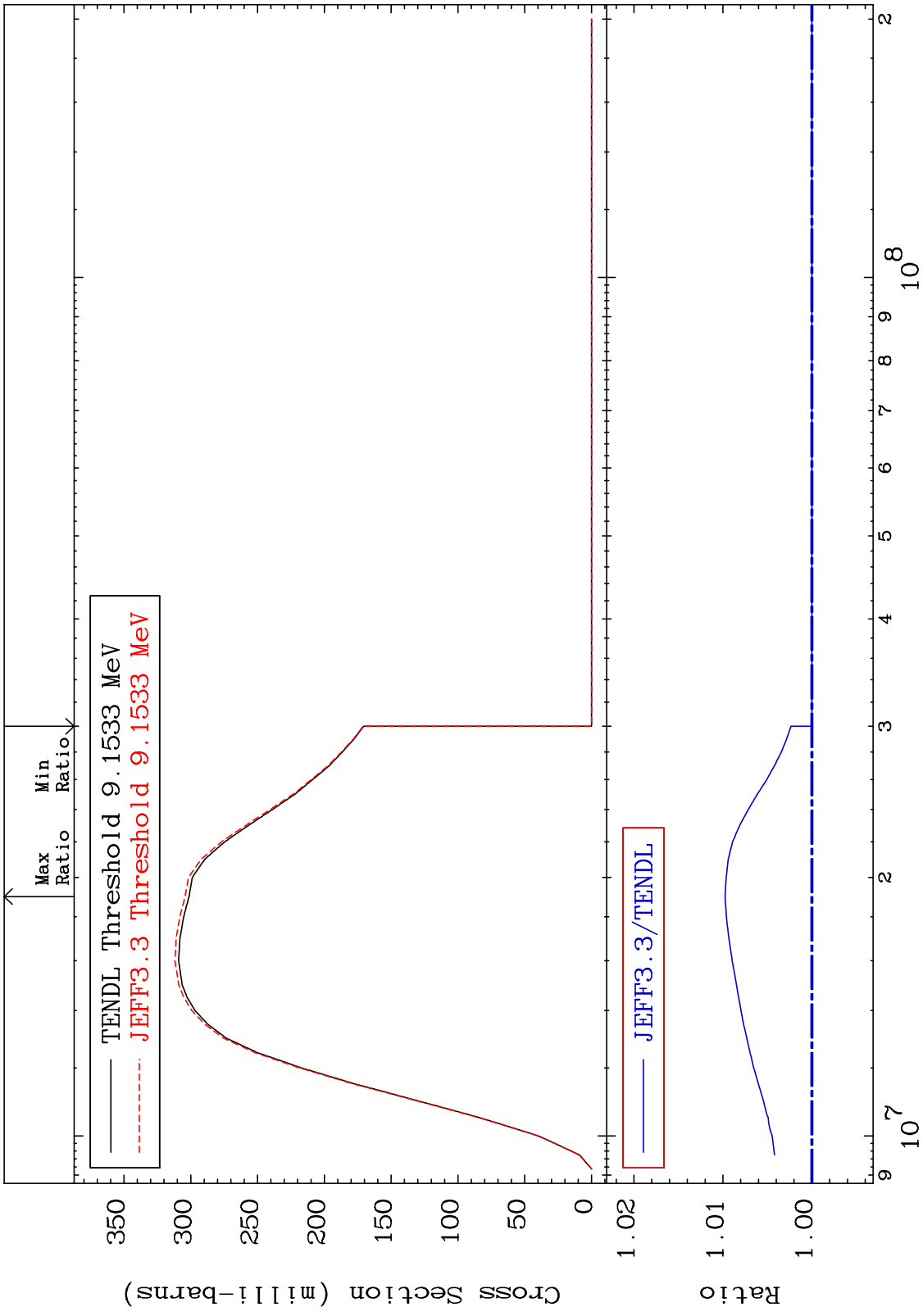
MAT 2828 28-Ni-59 Inelastic Cross Section -0.040 To 0.571 % 28-Ni-59



MAT 2828 (n,2n) d 28-Ni-59  
Cross Section 0.000 To 1.658 %

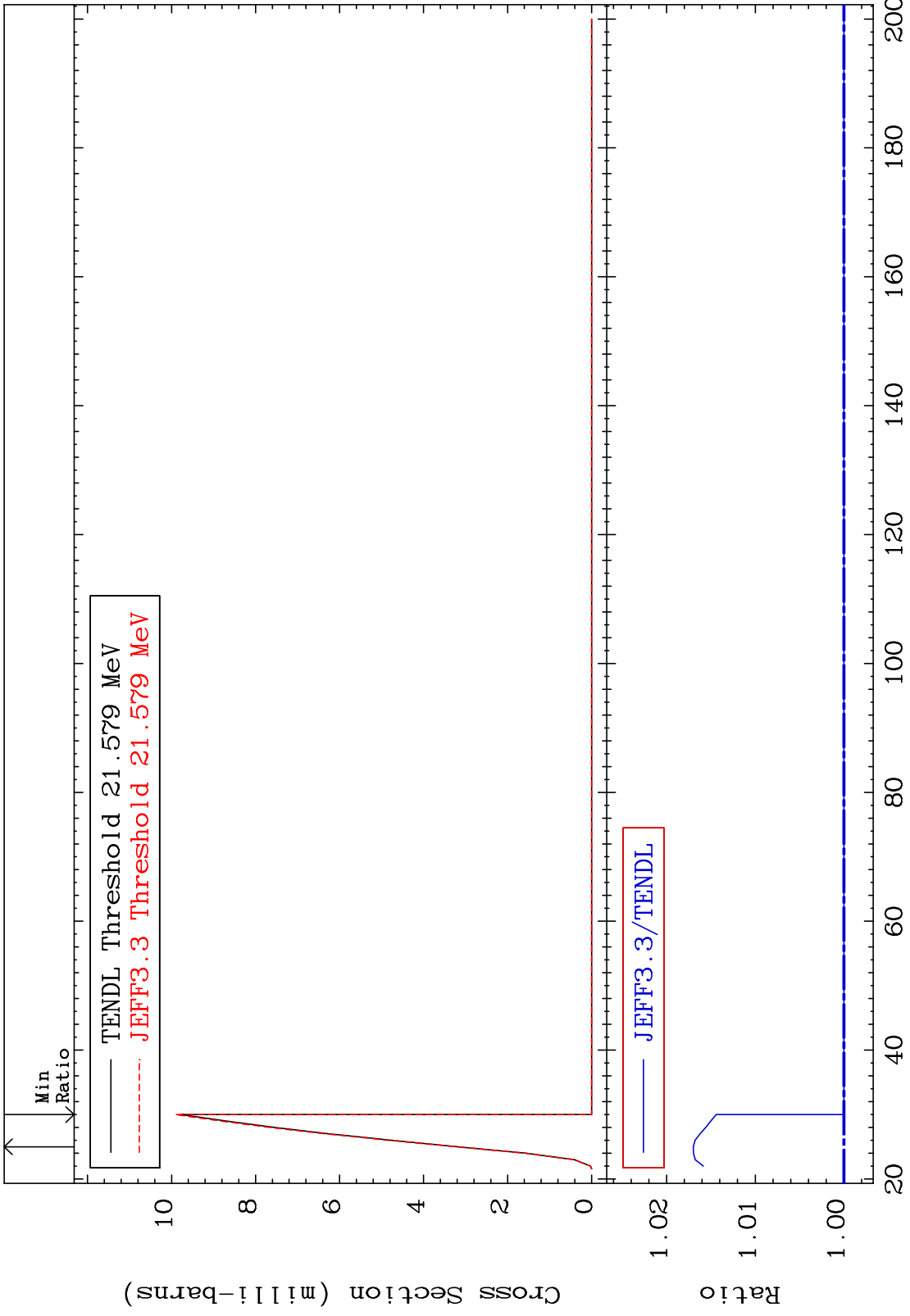


MAT 2828 28-Ni-59  
(n,2n) Cross Section  
0.000 To 0.976 %



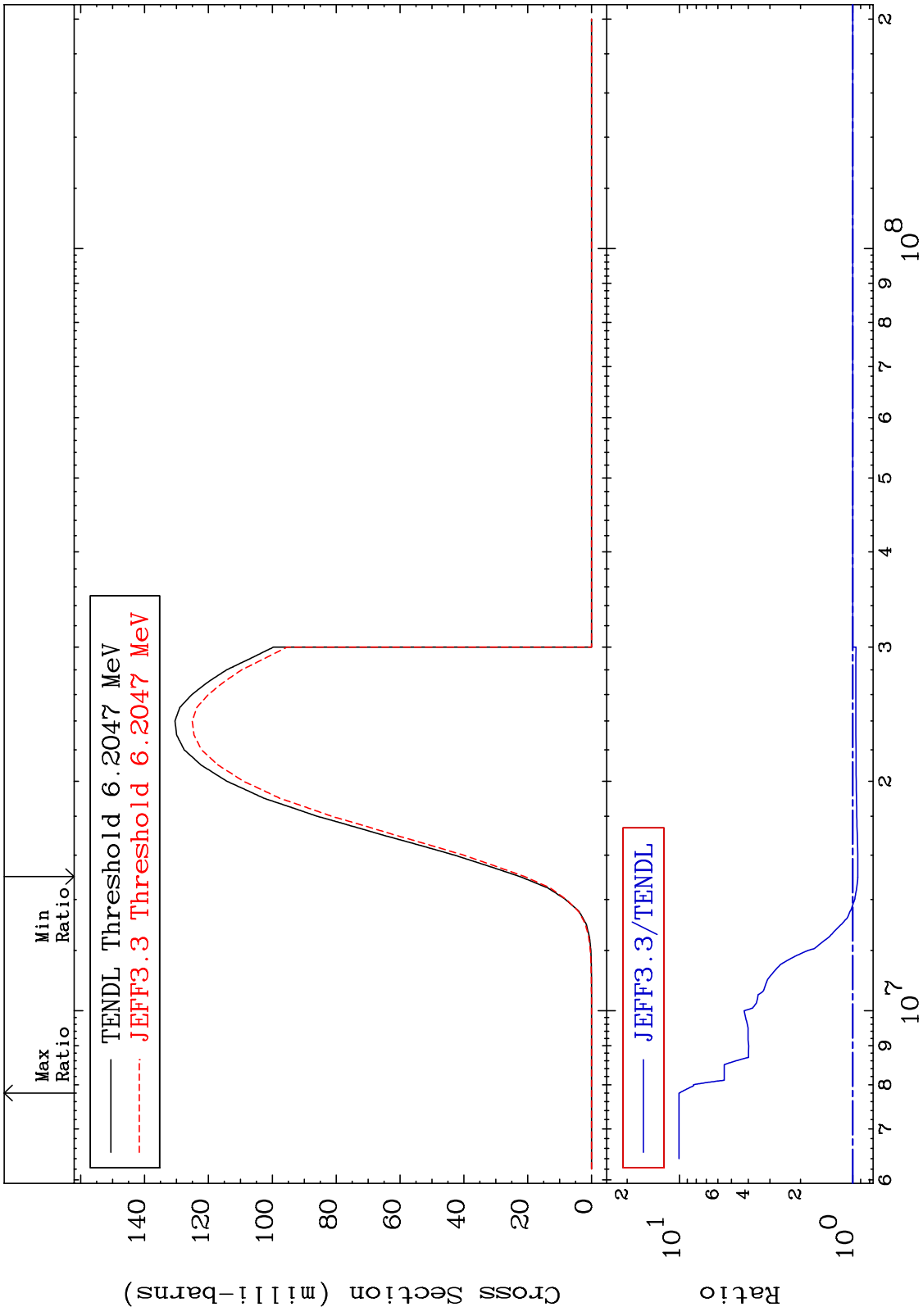
28-Ni-59

MAT 2828 (n,3n) Cross Section 28-Ni-59 To 1.700 %



6 Incident Energy (MeV) 28-Ni-59

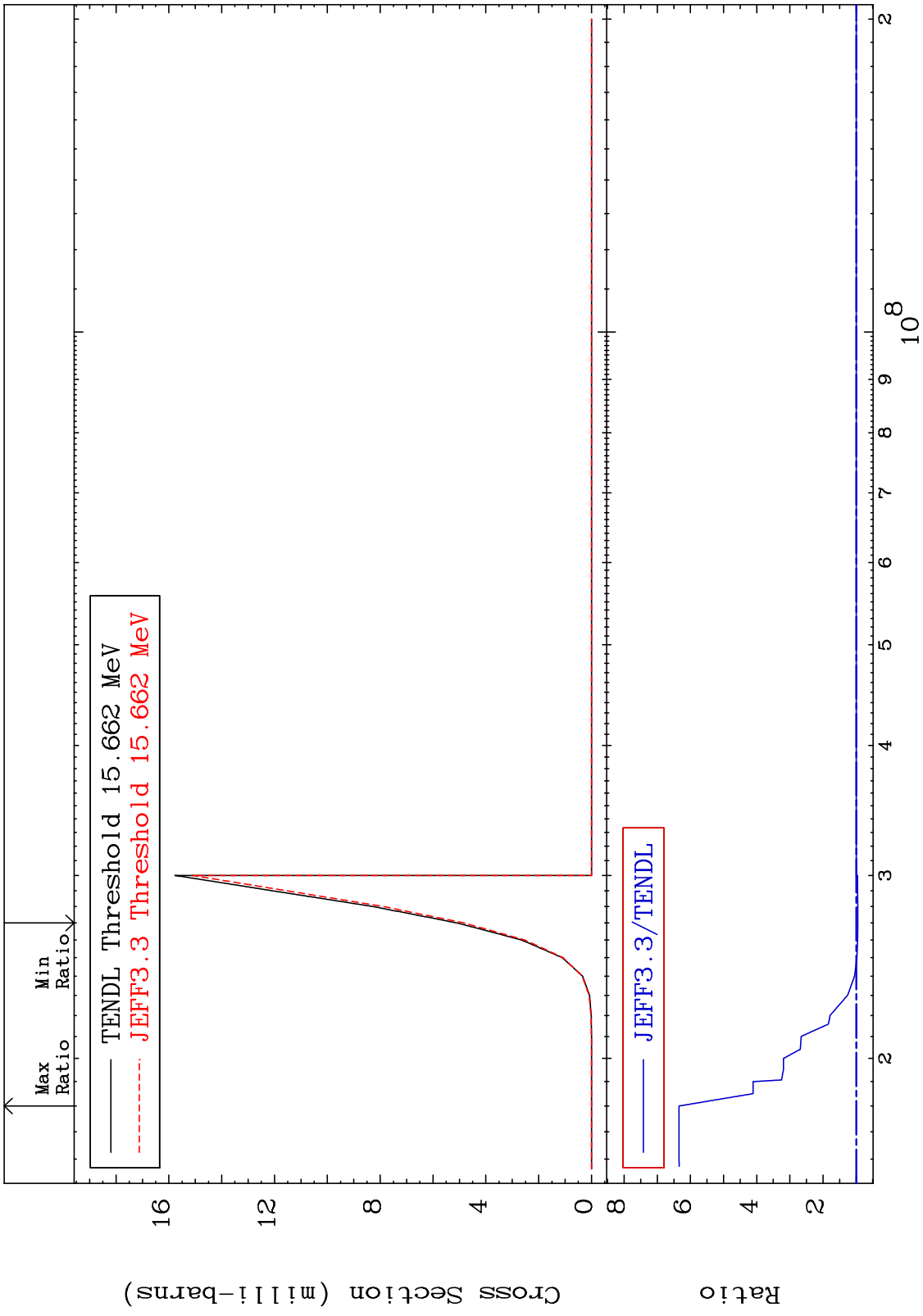
MAT 2828  $(n, n') \alpha$  28-Ni-59  
 Cross Section -6.600 To 904.3 %



7 Incident Energy (eV) 28-Ni-59

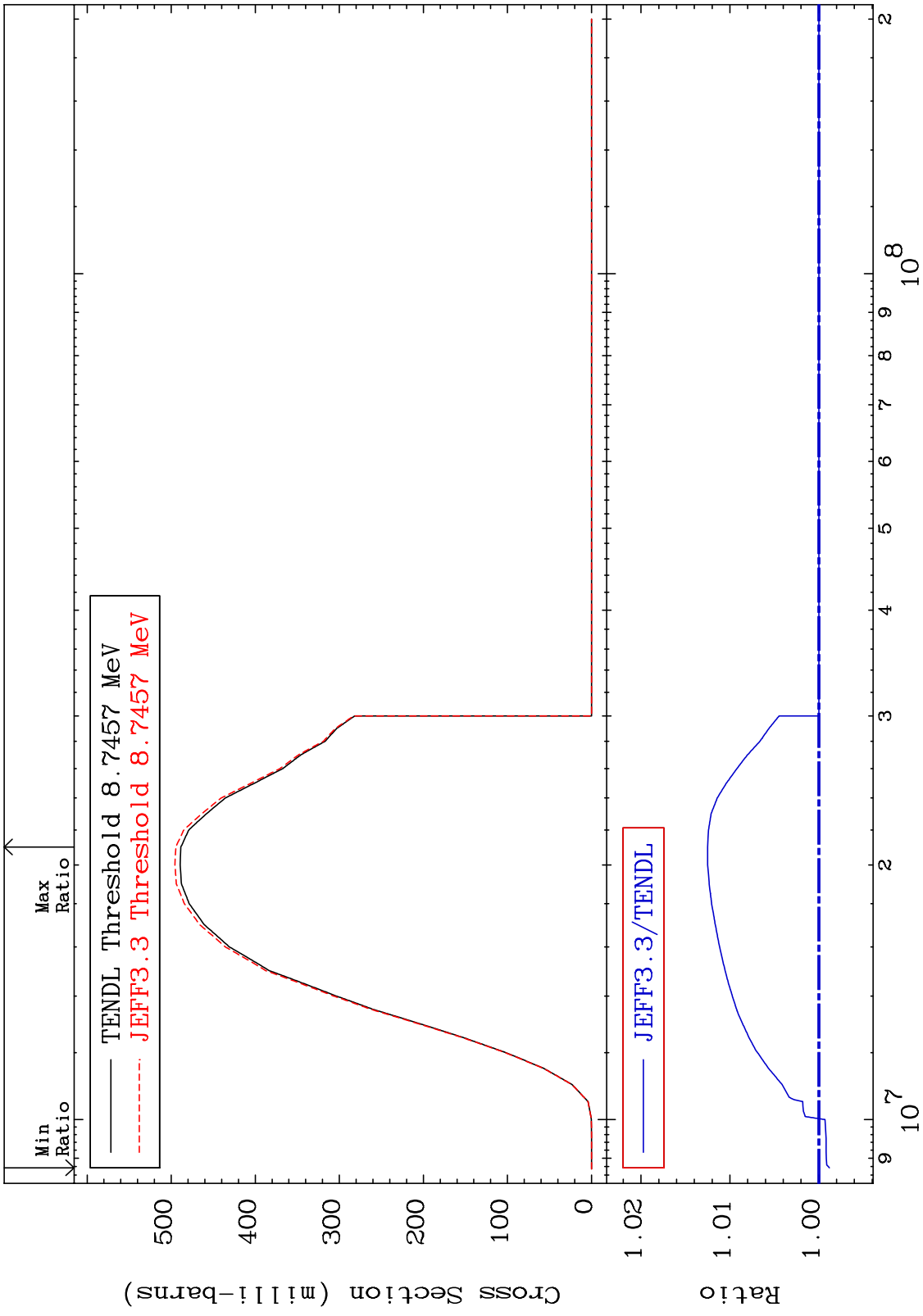


MAT 2828  $(n, 2n) \alpha$  28-Ni-59  
 Cross Section -5.000 To 534.3 %



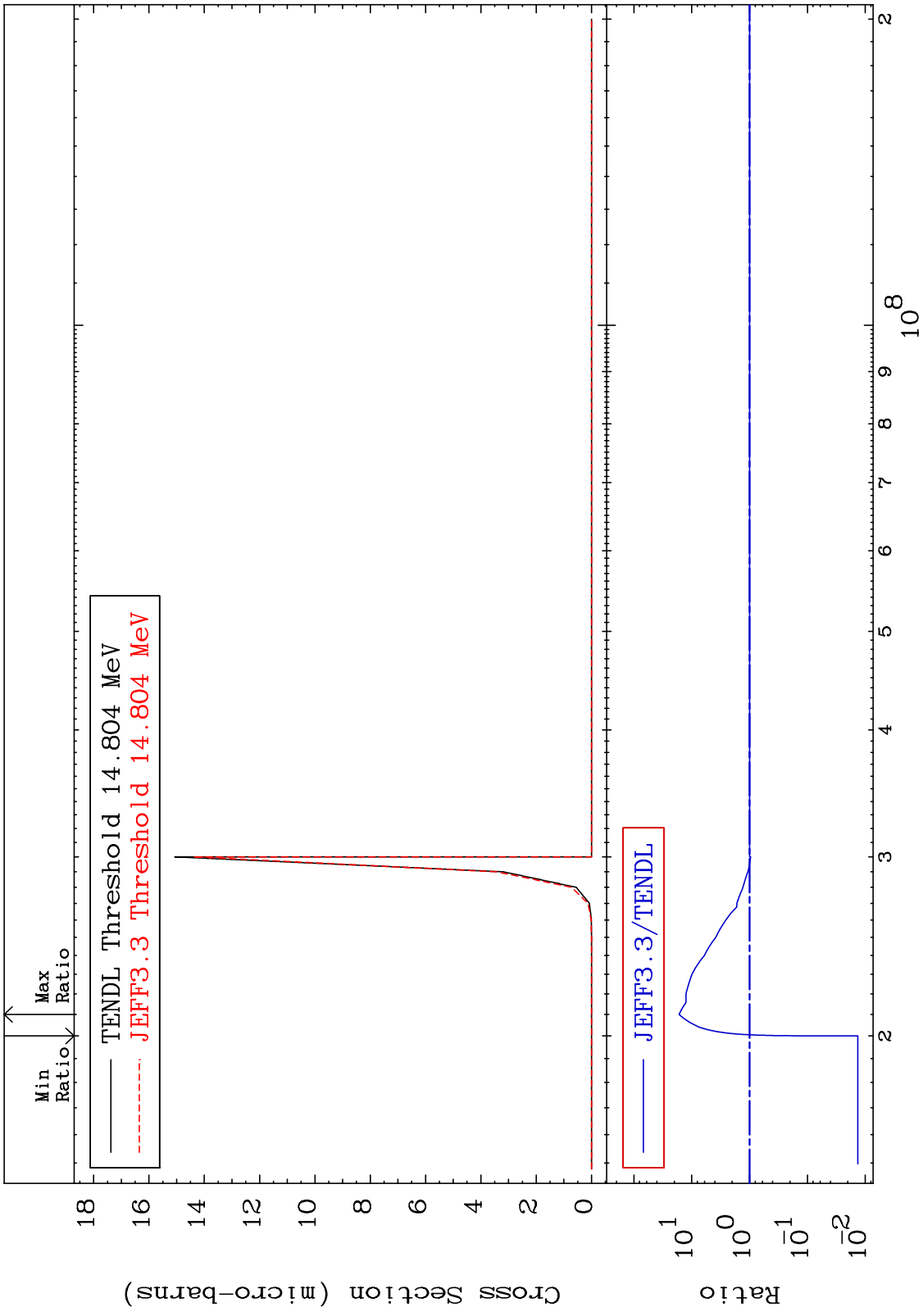
8 28-Ni-59

MAT 2828  $(n, n')$  p  $^{28}\text{Ni-59}$   
Cross Section -0.119 To 1.252 %



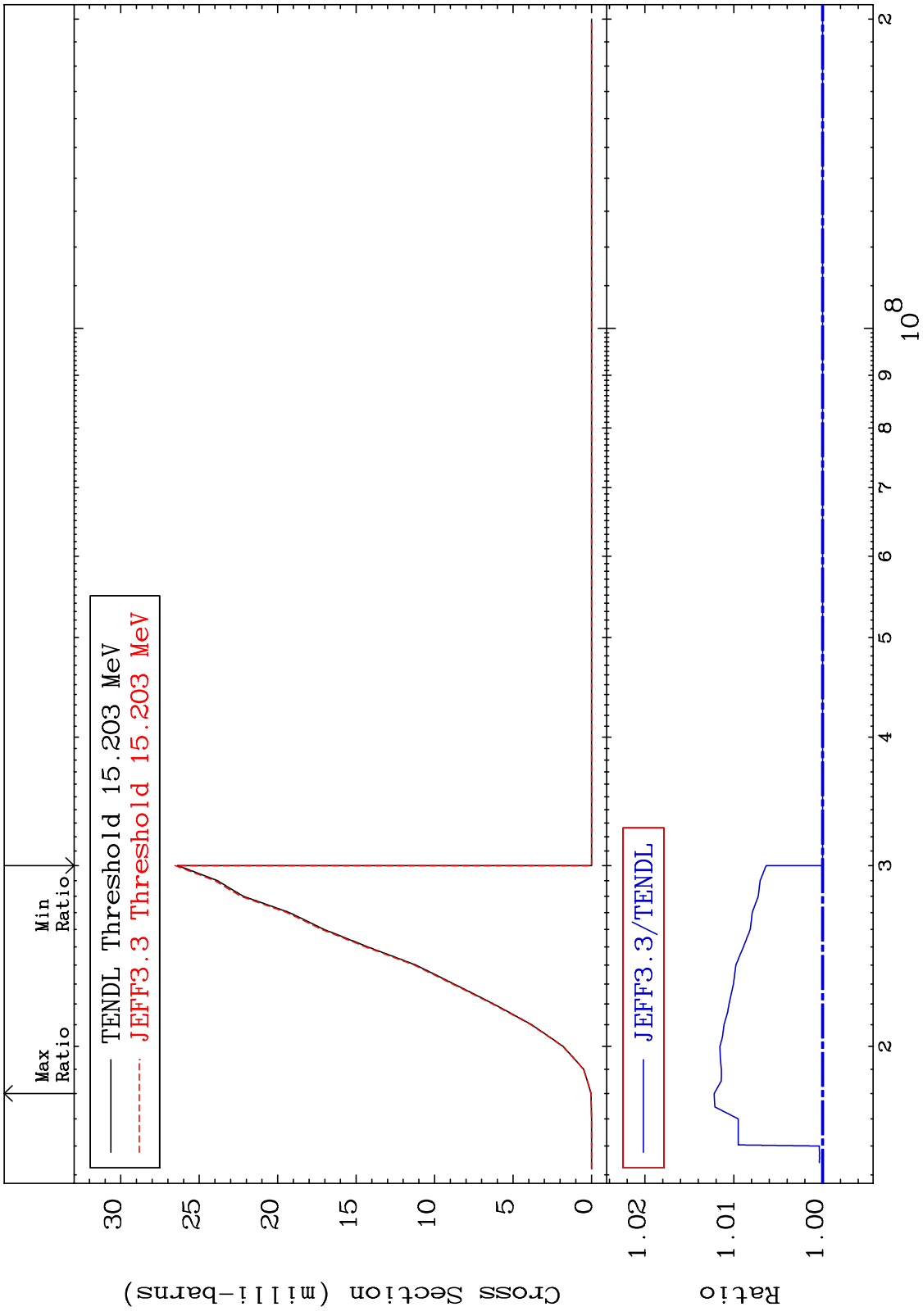
$^{28}\text{Ni-59}$

MAT 2828 (n,n') 2α 28-Ni-59  
 Cross Section -98.66 To 1556. %



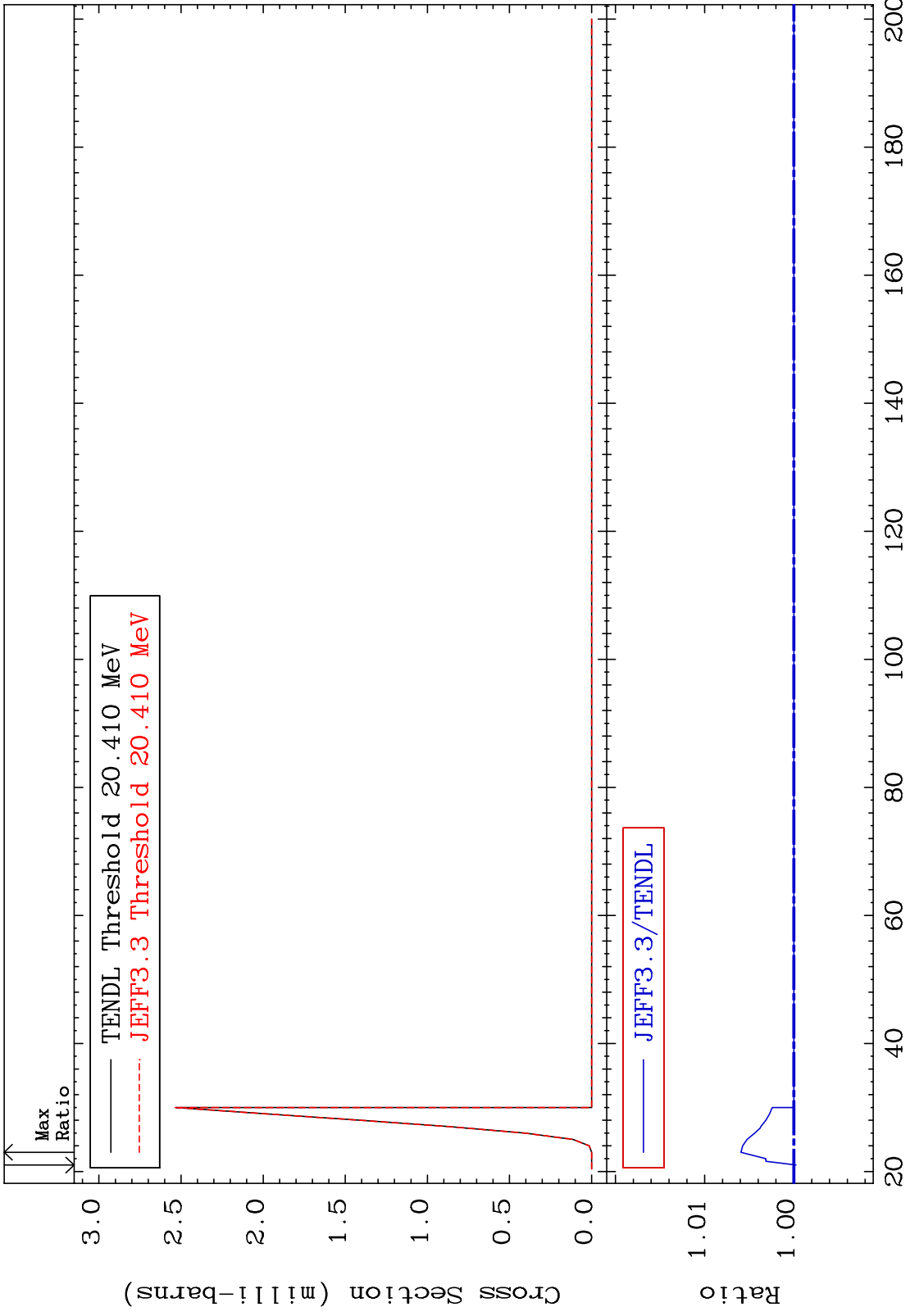
10 28-Ni-59

MAT 2828 (n,n') d 28-Ni-59  
 Cross Section 0.000 To 1.220 %

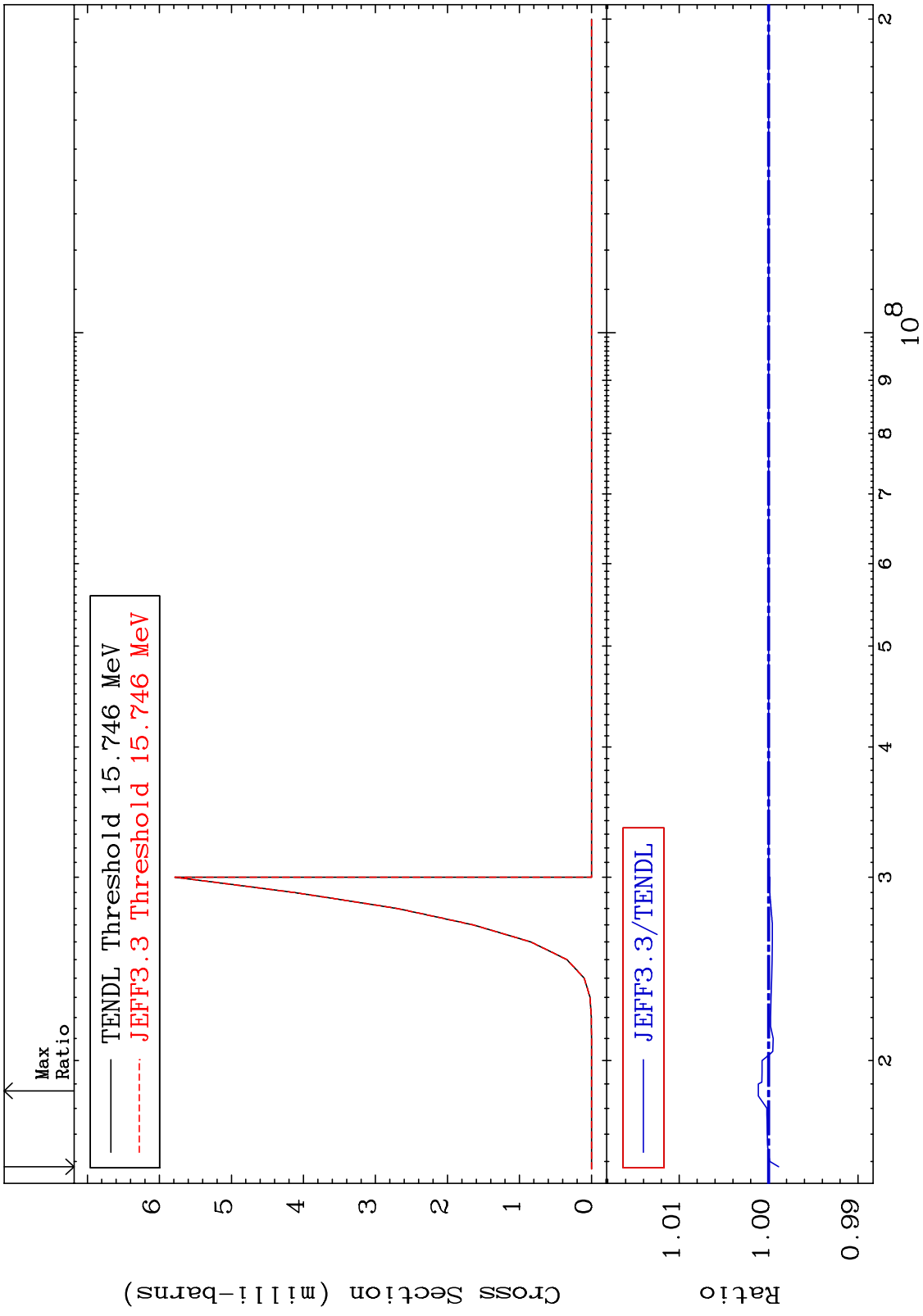


28-Ni-59

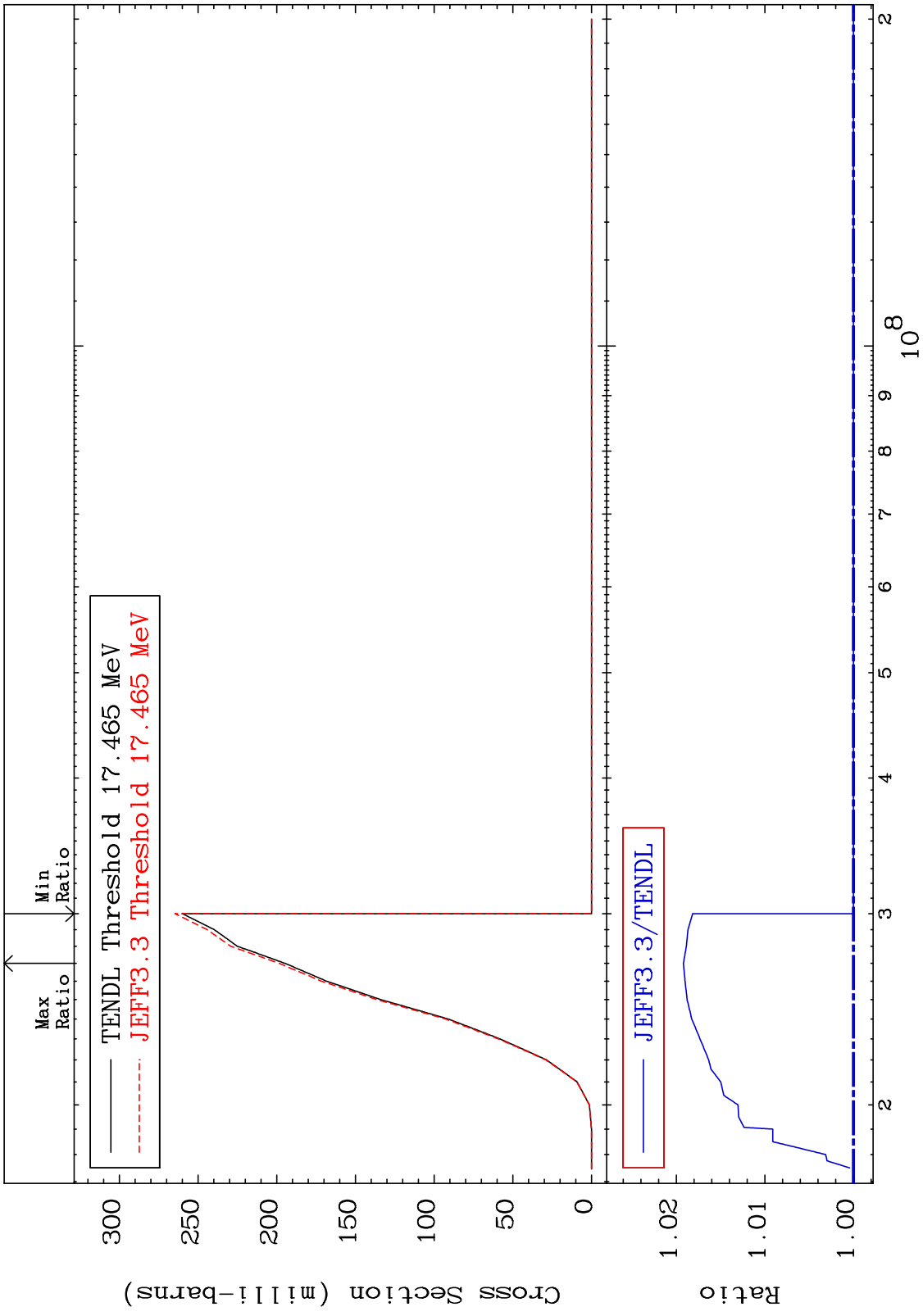
MAT 2828 (n,n') t 28-Ni-59  
Cross Section -0.025 To 0.593 %



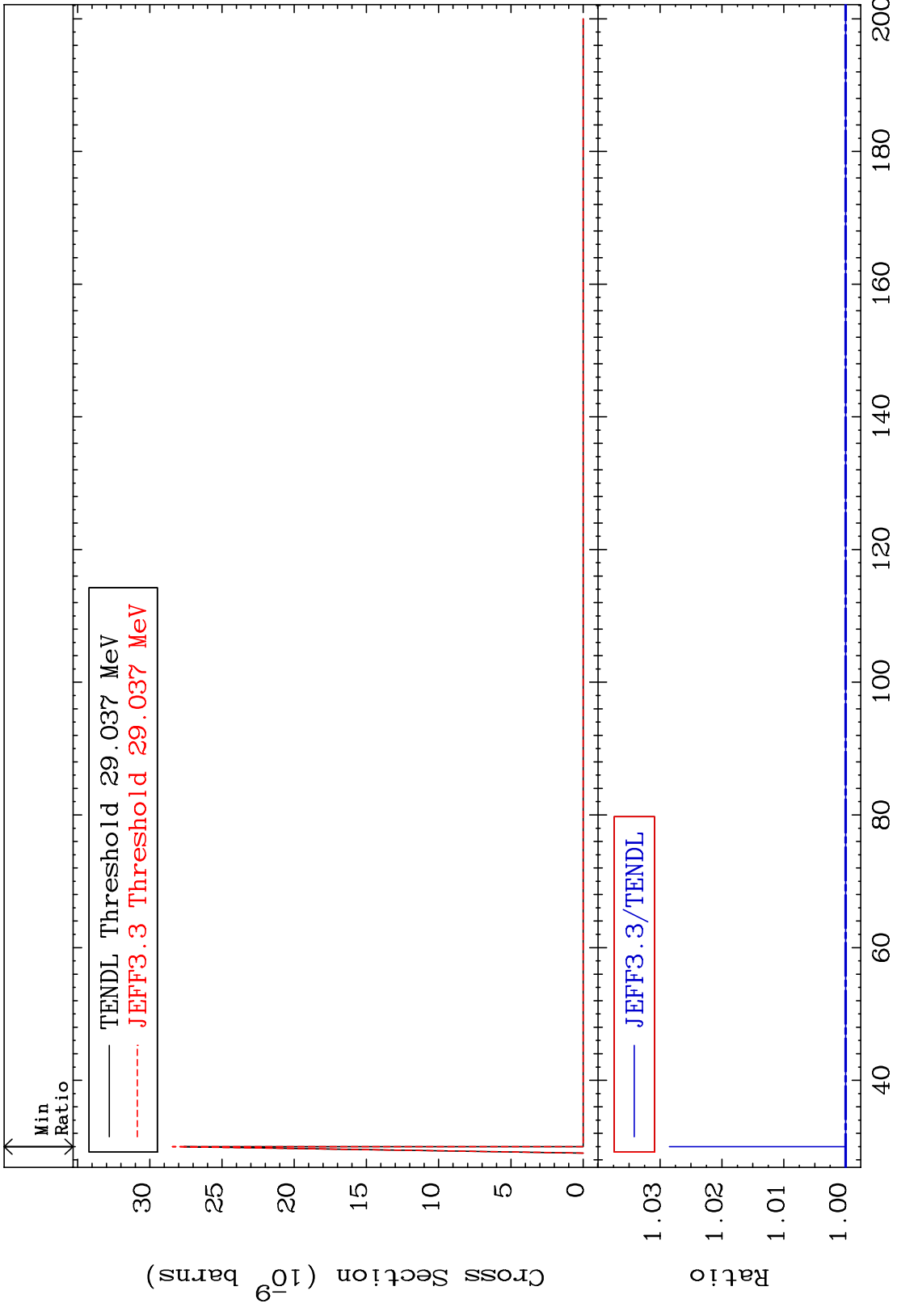
MAT 2828 (n, n') He-3 28-Ni-59  
 Cross Section -0.112 To 0.116 %



MAT 2828 (n,2n) p 28-Ni-59  
 Cross Section 0.000 To 1.920 %

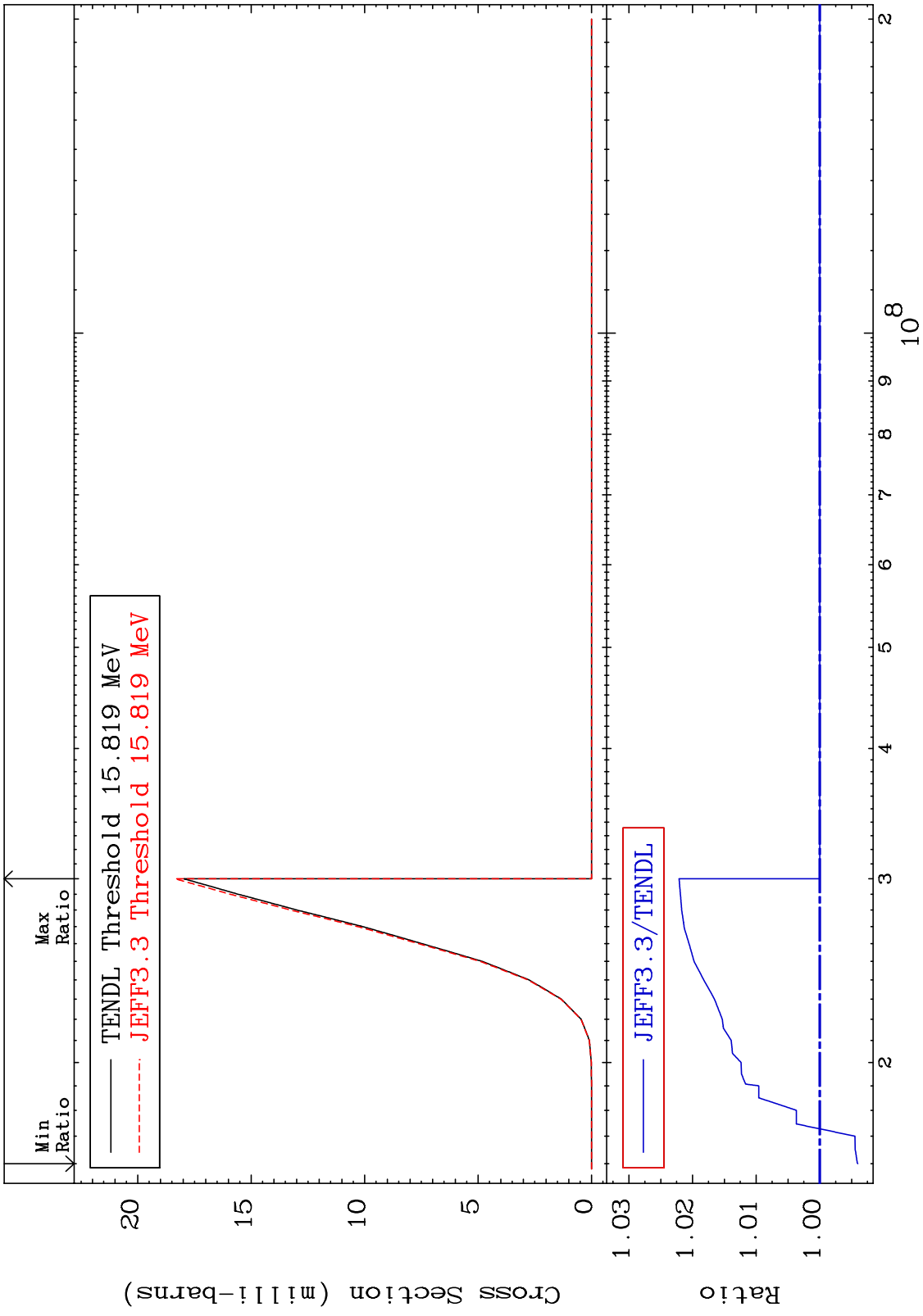


MAT 2828 (n,3n) p 28-Ni-59  
 Cross Section 0.000 To 2.848 %



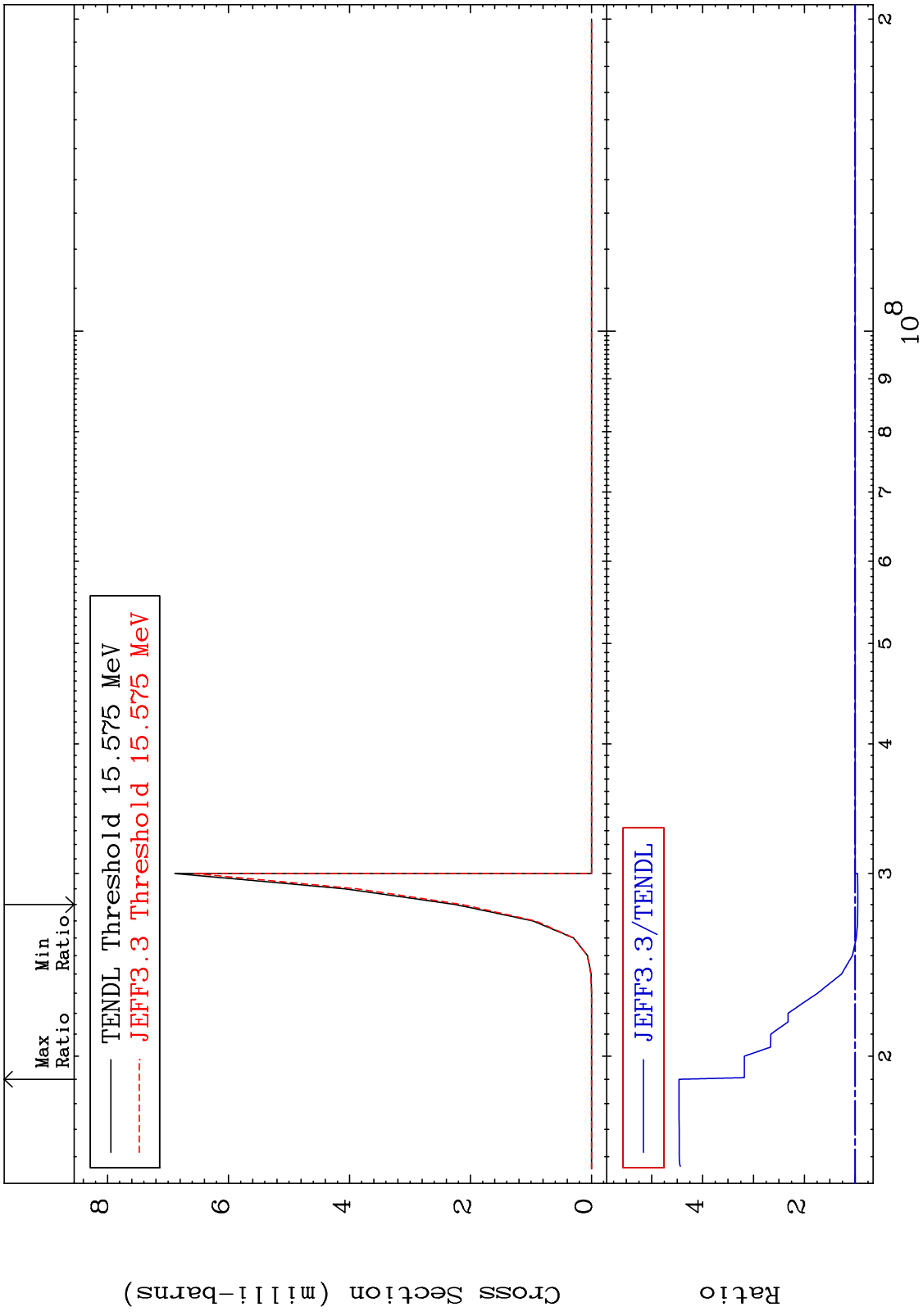


MAT 2828 (n,2n) p 28-Ni-59  
 Cross Section -0.598 To 2.213 %

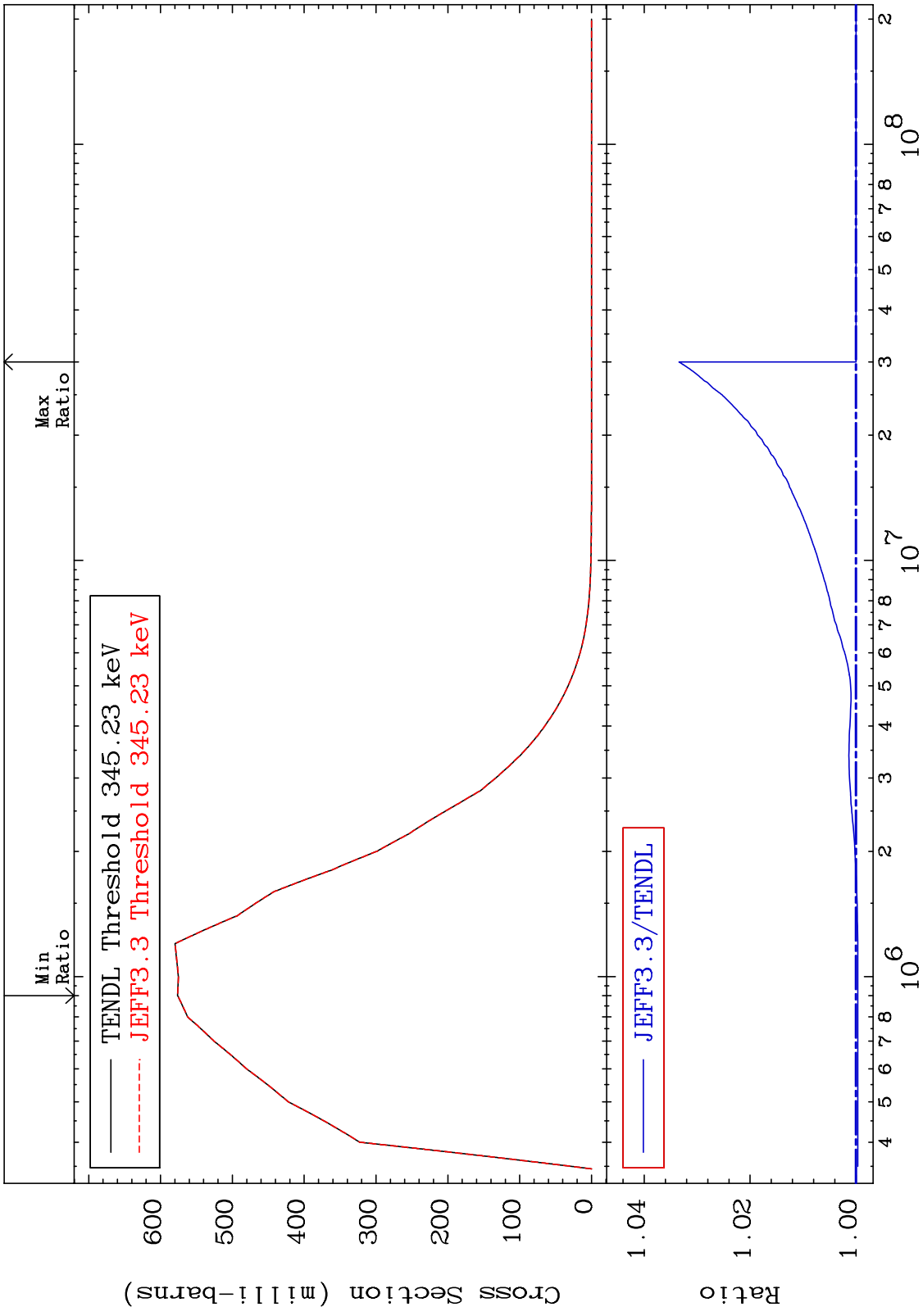


16 28-Ni-59

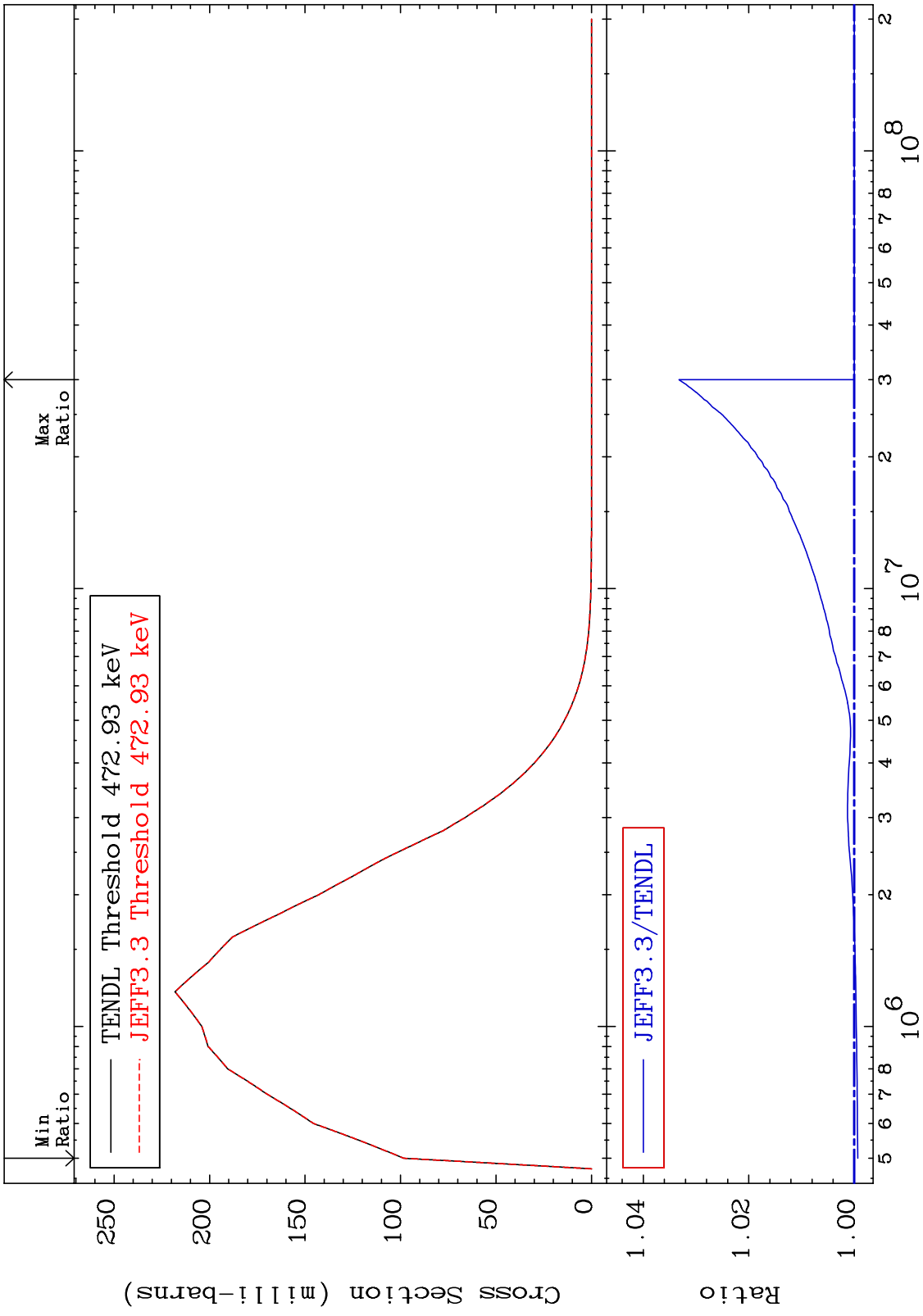
MAT 2828  $(n,n')$  p  $\alpha$  28-Ni-59  
 Cross Section -5.091 To 346.3 %



MAT 2828 MT= 51 (n,n') Level Cross Section 28-Ni-59 -0.035 To 3.343 %

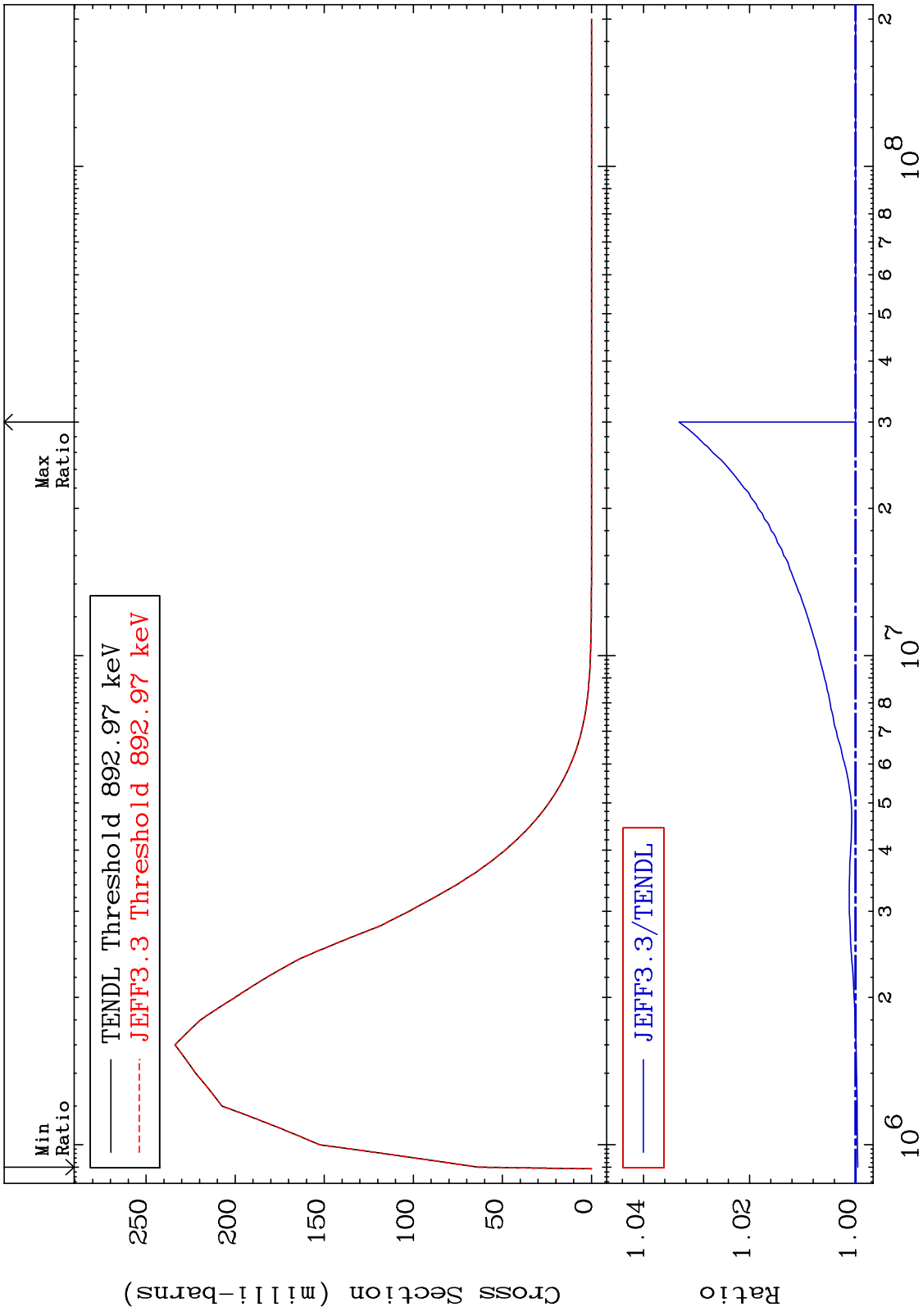


MAT 2828 MT= 52 (n,n') Level Cross Section 28-Ni-59  
 -0.069 To 3.322 %



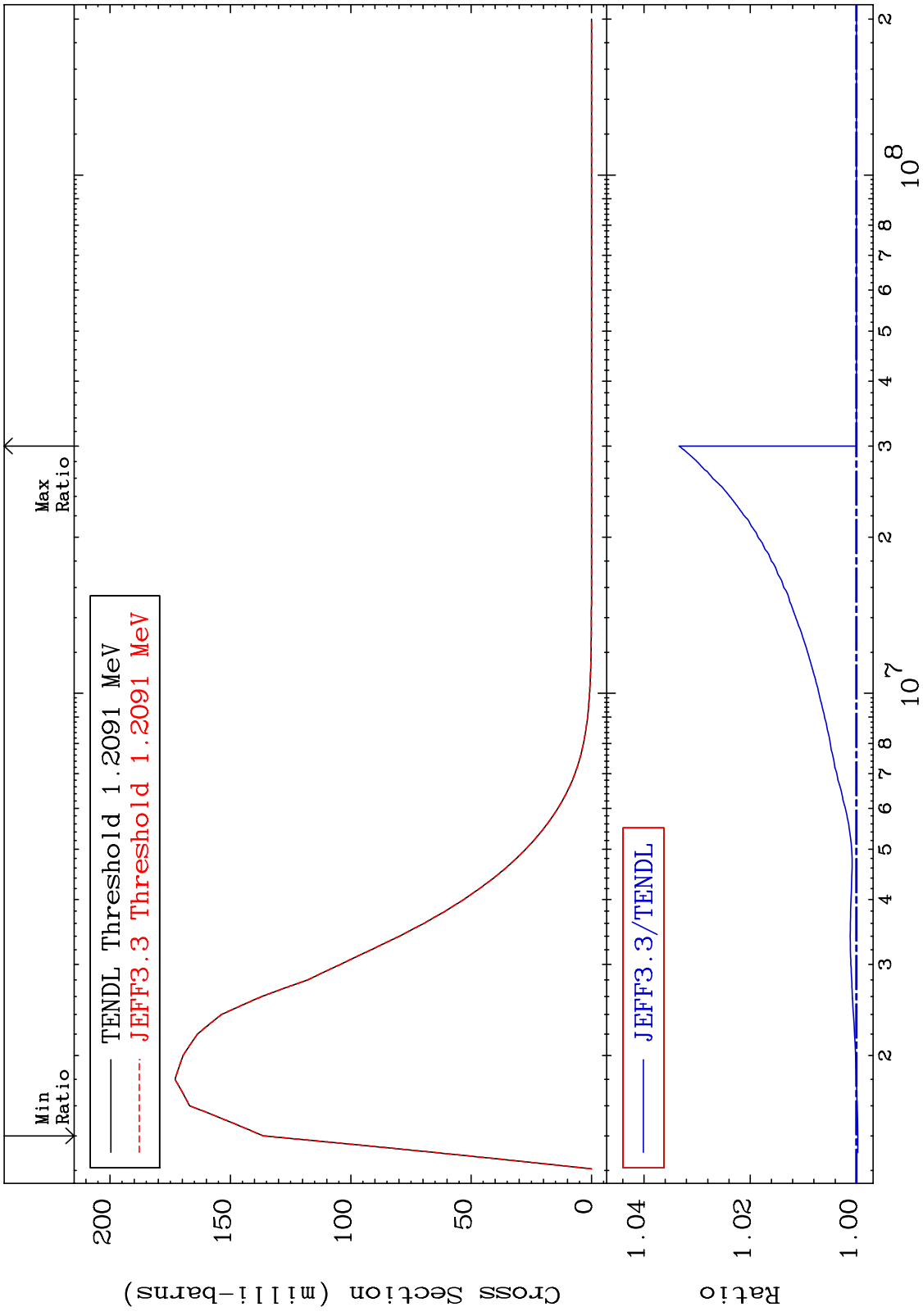
19 28-Ni-59

MAT 2828 MT= 53 (n,n') Level Cross Section 28-Ni-59 -0.043 To 3.330 %

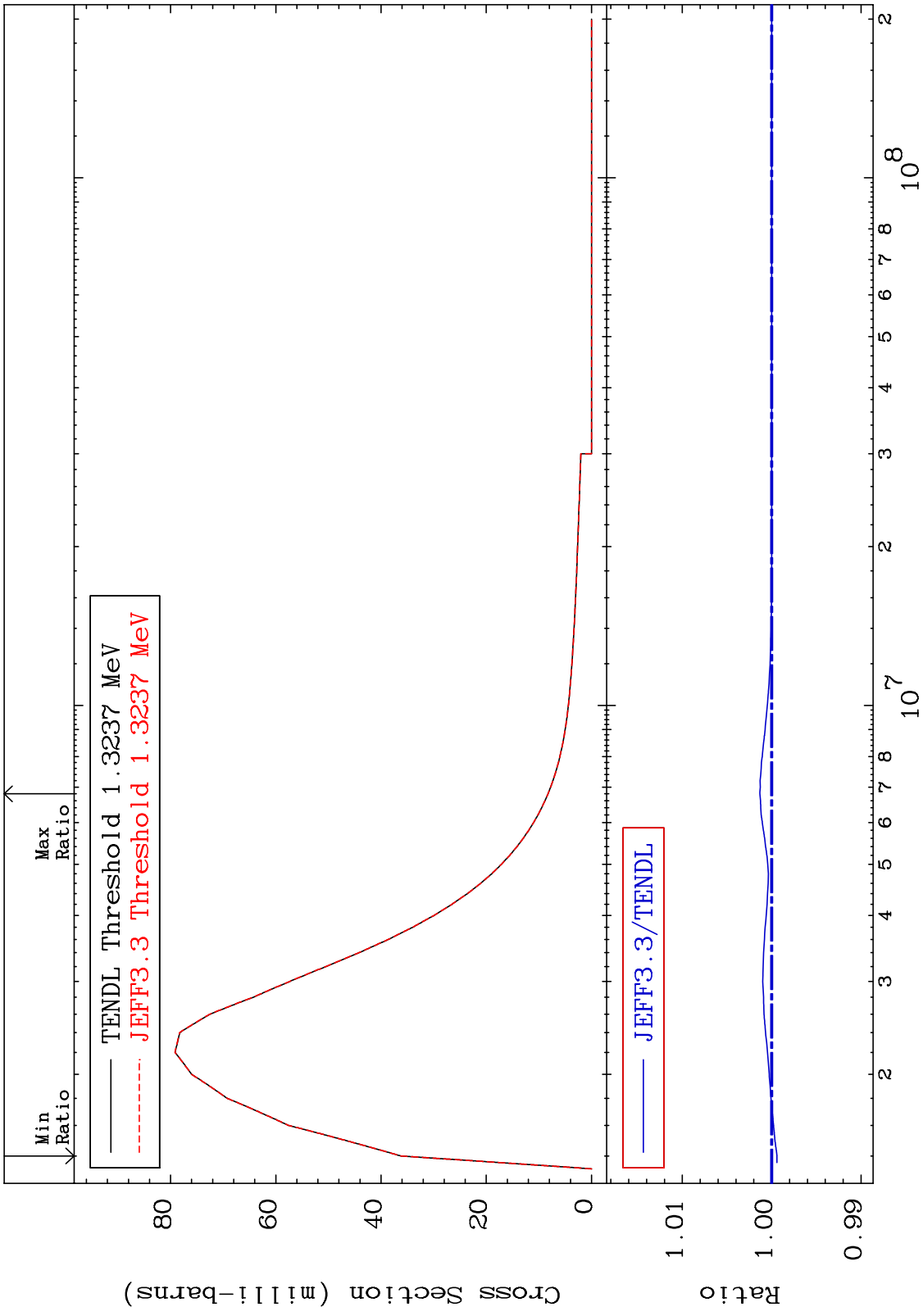


20 10<sup>6</sup> 2 10<sup>7</sup> 2 10<sup>8</sup> 28-Ni-59

MAT 2828 MT= 54 (n,n') Level Cross Section -0.026 To 3.340 % 28-Ni-59



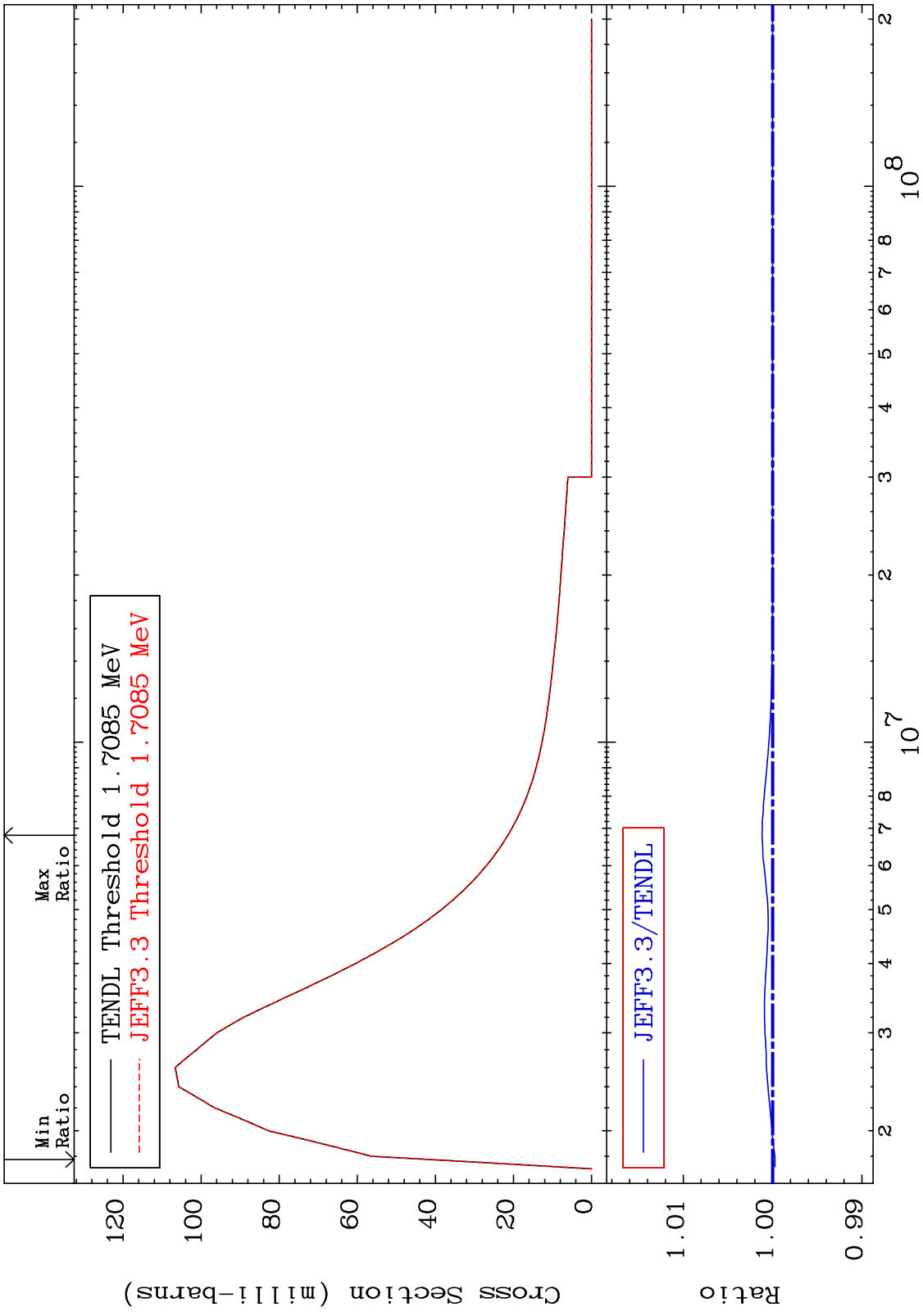
MAT 2828 MT= 55 (n,n') Level Cross Section 28-Ni-59 -0.060 To 0.132 %



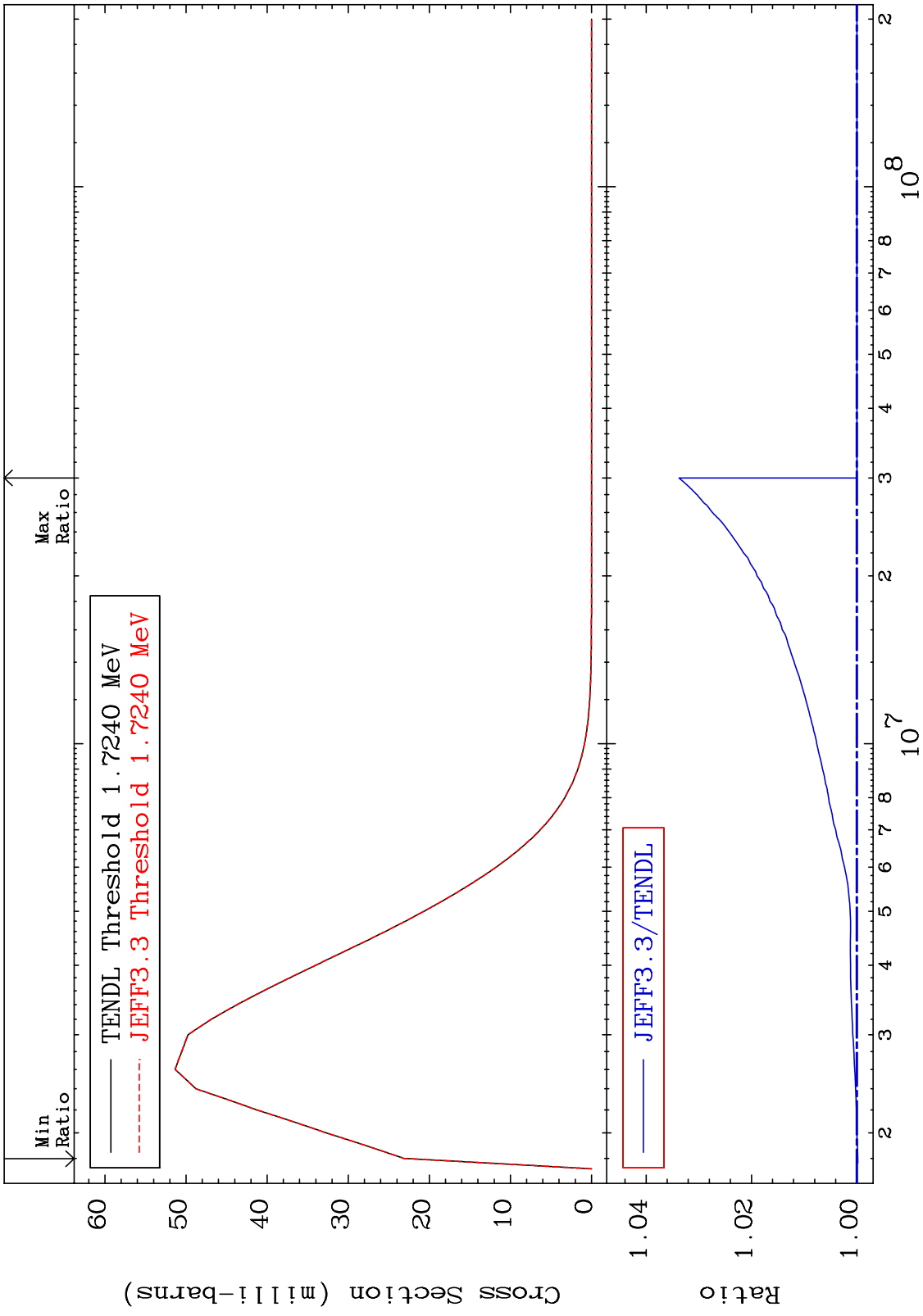




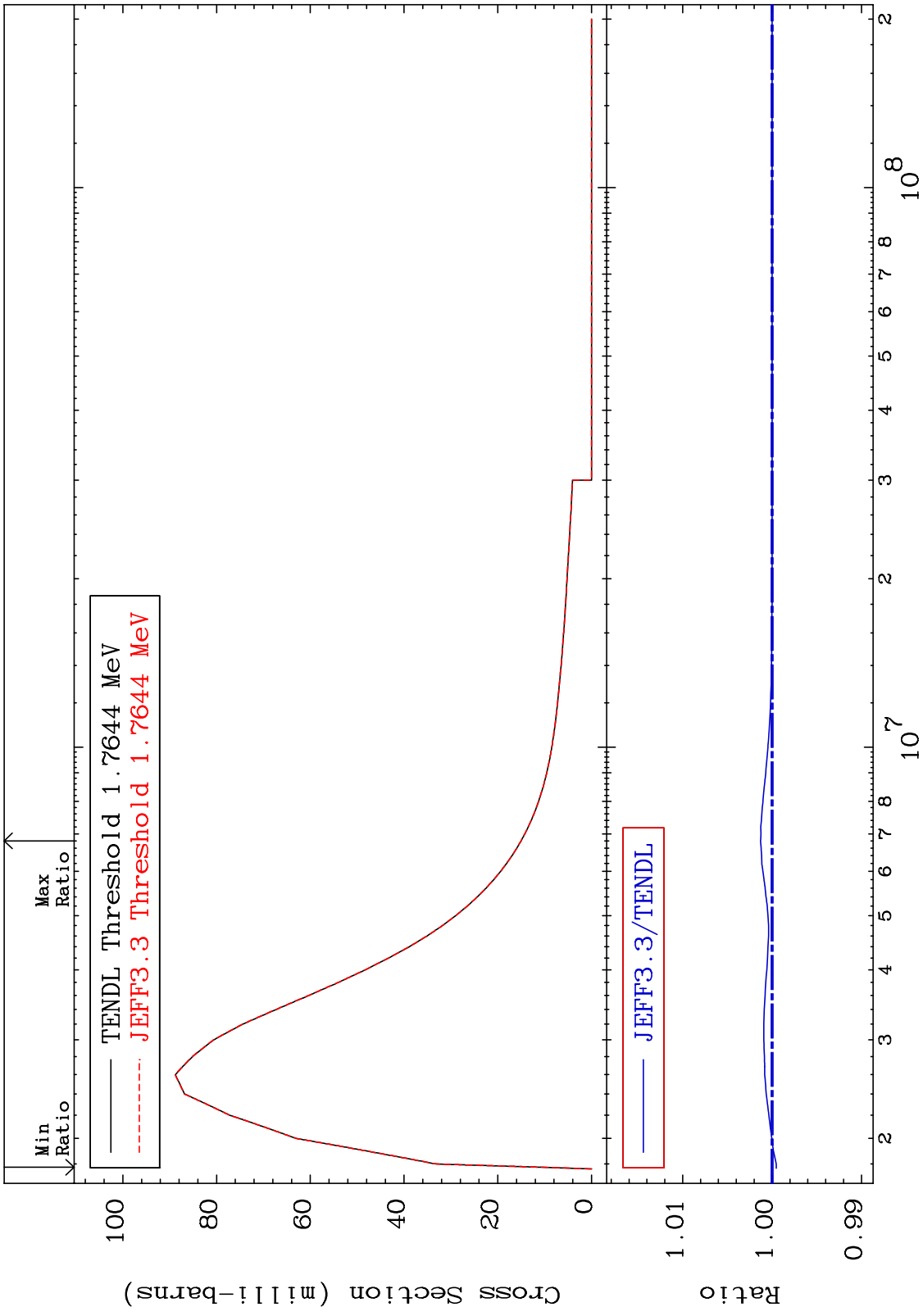
MAT 2828 MT= 57 (n,n') Level Cross Section 28-Ni-59 -0.025 To 0.119 %



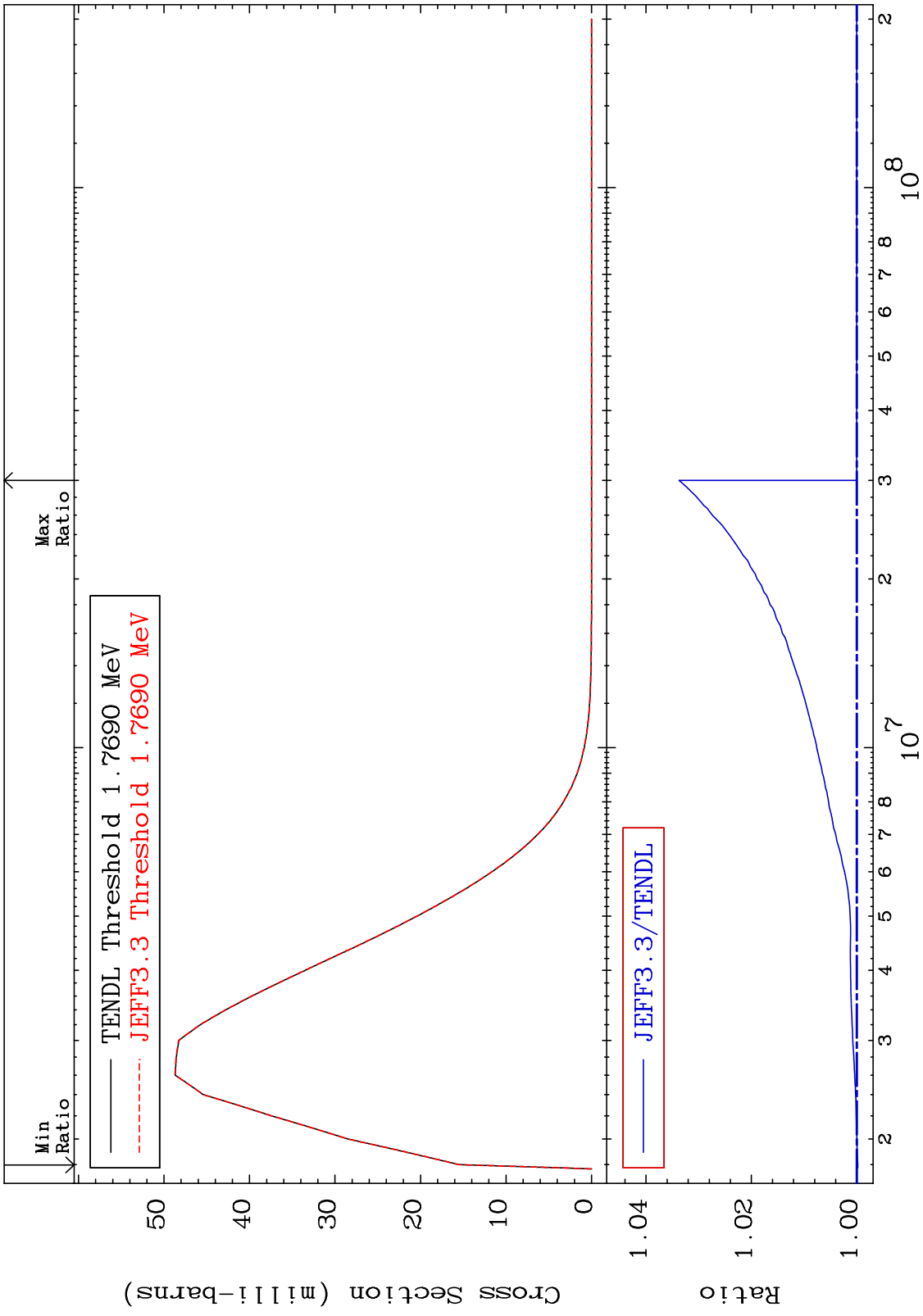
MAT 2828 MT= 58 (n,n') Level Cross Section -0.019 To 3.374 % 28-Ni-59



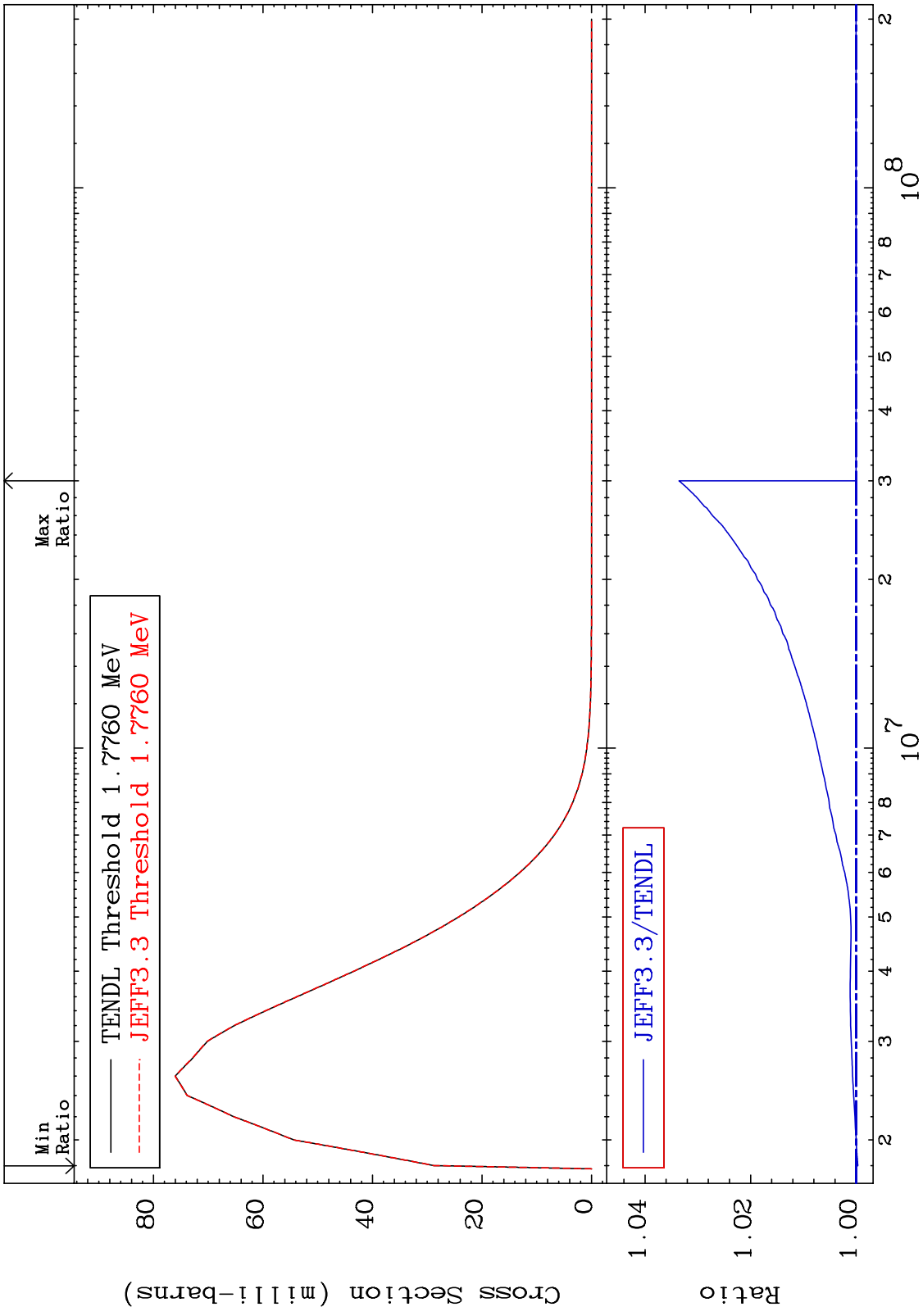
MAT 2828 MT= 59 (n,n') Level Cross Section 28-Ni-59 -0.048 To 0.128 %



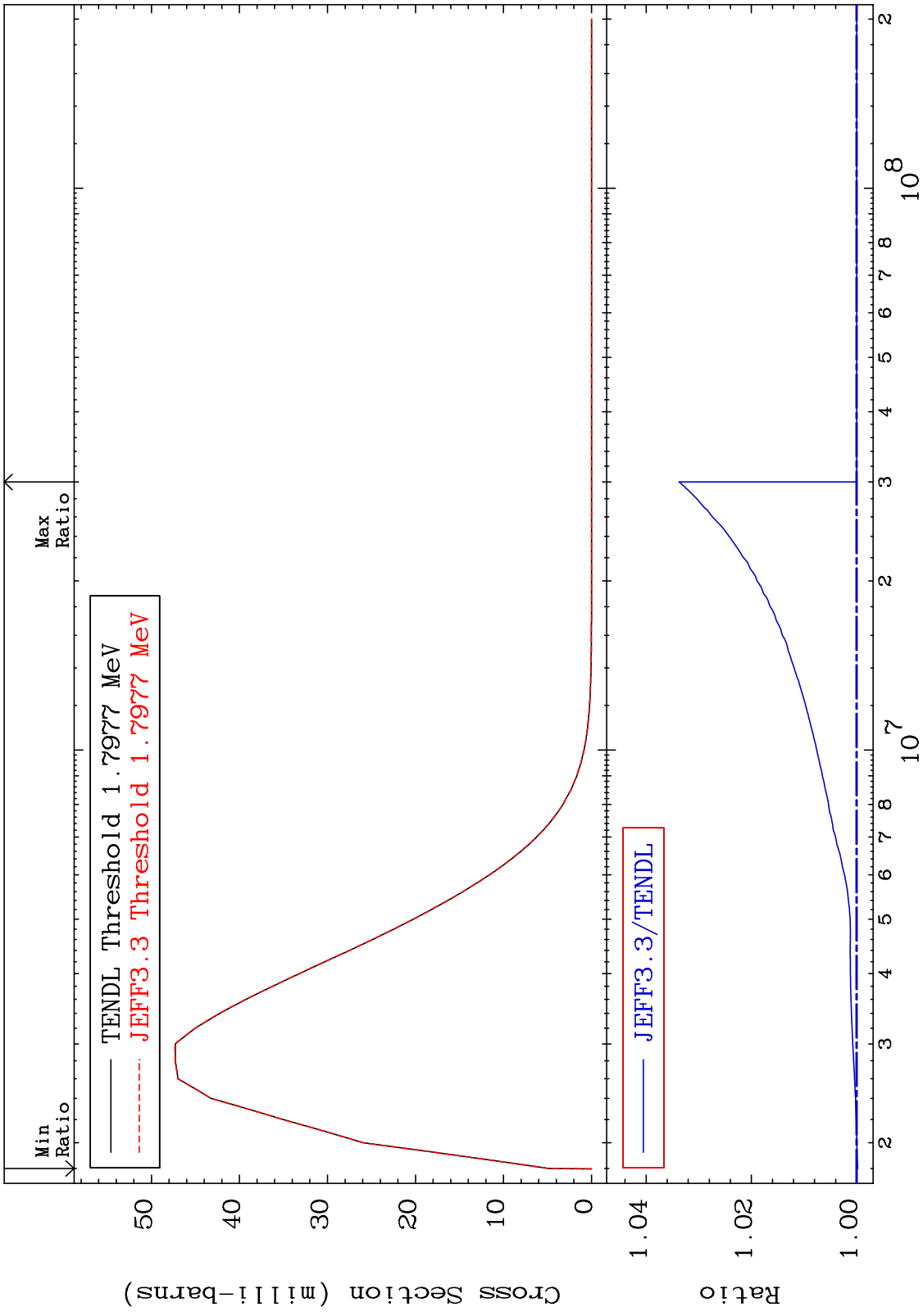
MAT 2828 MT= 60 (n,n') Level Cross Section -0.020 To 3.374 % 28-Ni-59



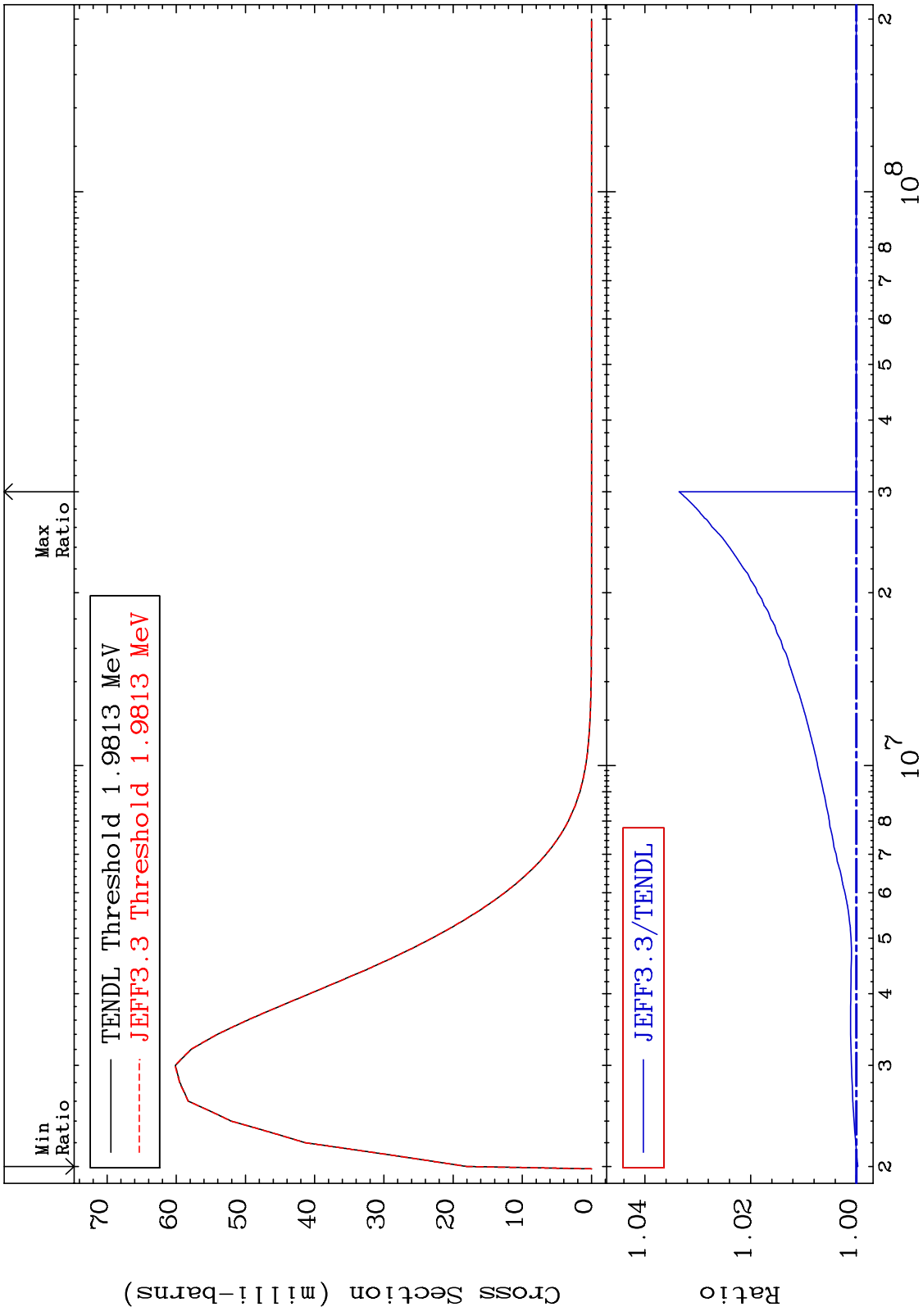
MAT 2828      MT= 61 (n,n') Level Cross Section      28-Ni-59  
 -0.032 To 3.355 %



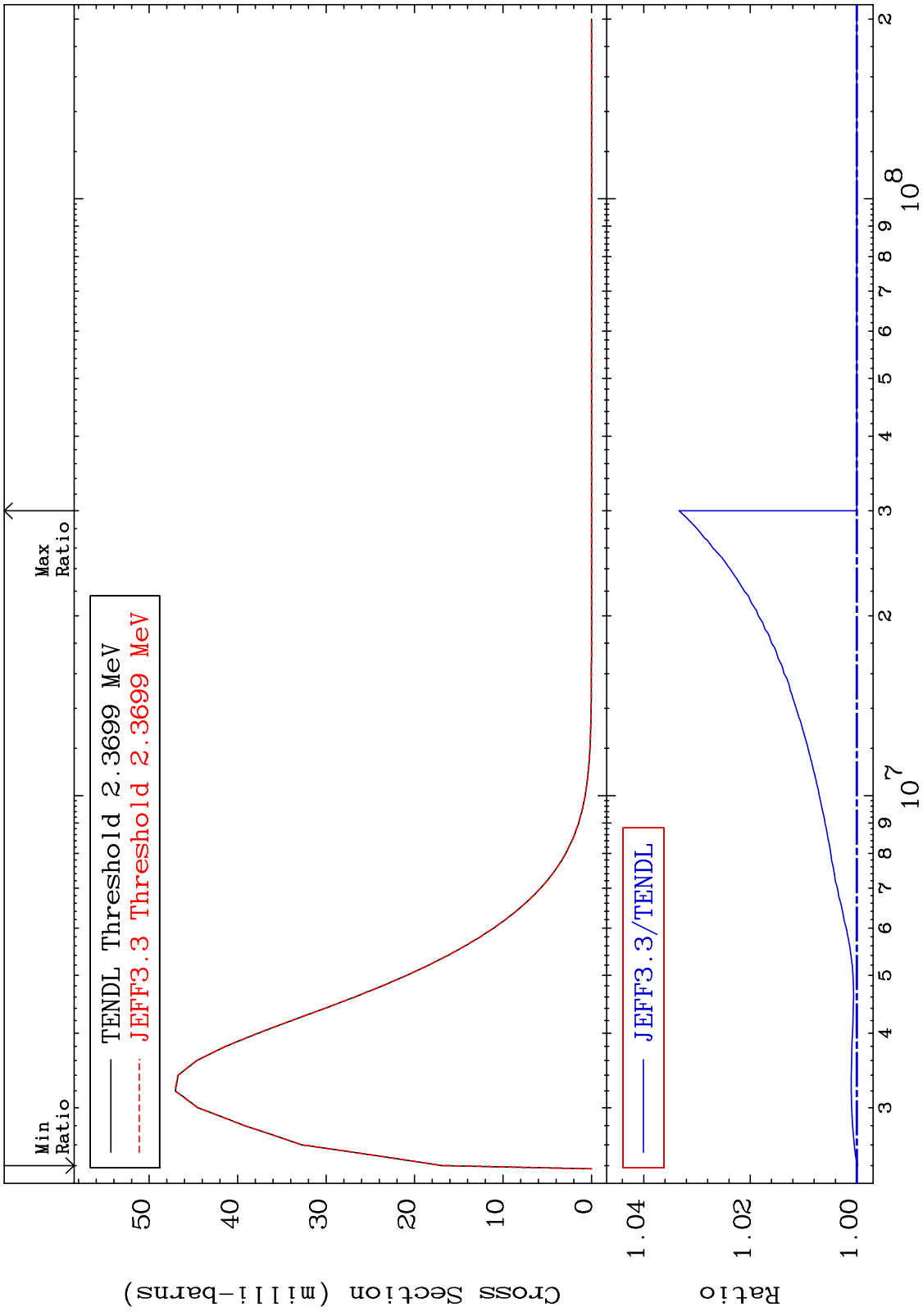
MAT 2828 MT= 62 (n,n') Level Cross Section -0.022 To 3.374 % 28-Ni-59



MAT 2828 MT= 63 (n,n') Level Cross Section -0.028 To 3.355 % 28-Ni-59

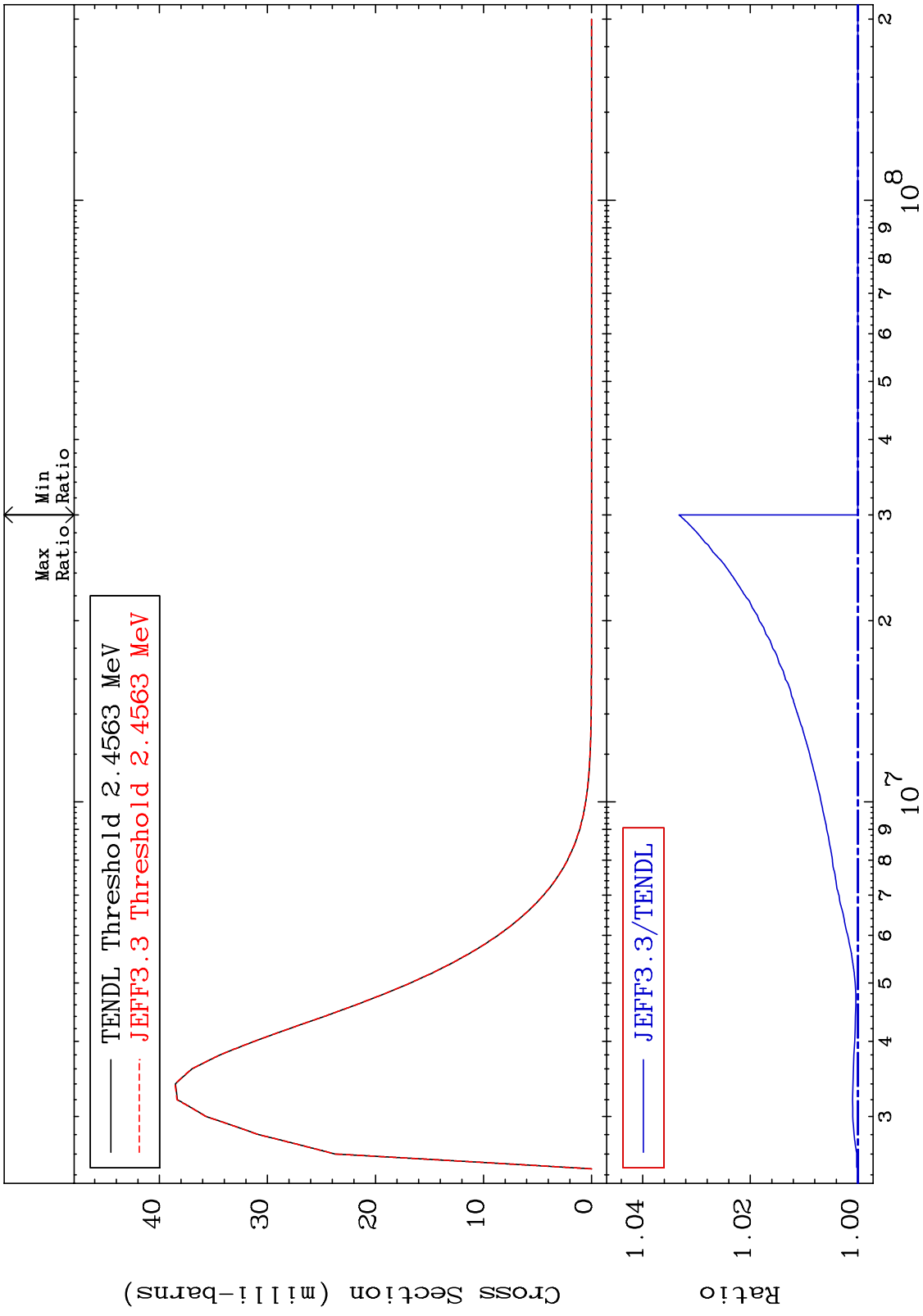


MAT 2828 MT= 64 (n,n') Level Cross Section -0.021 To 3.337 % 28-Ni-59

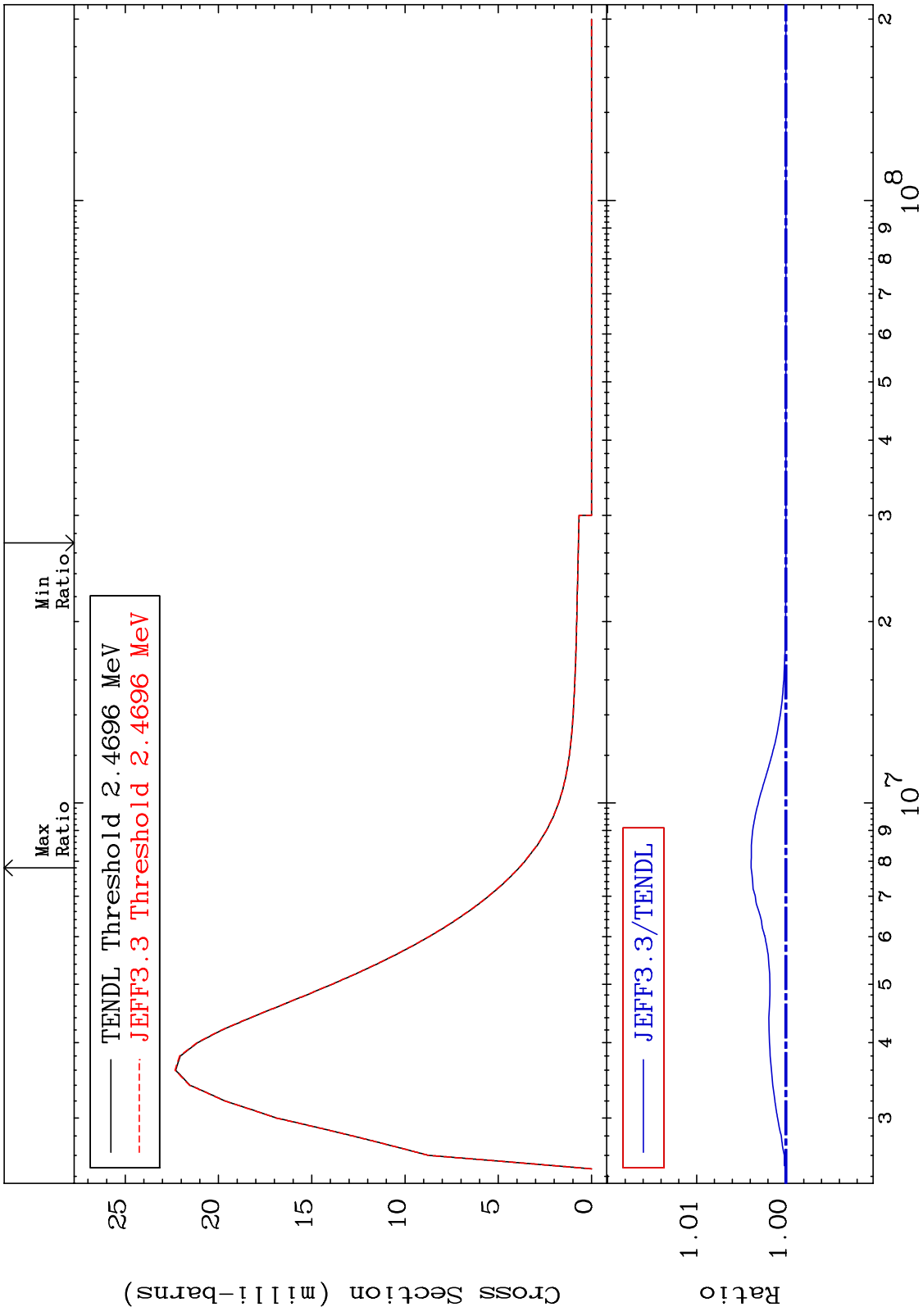




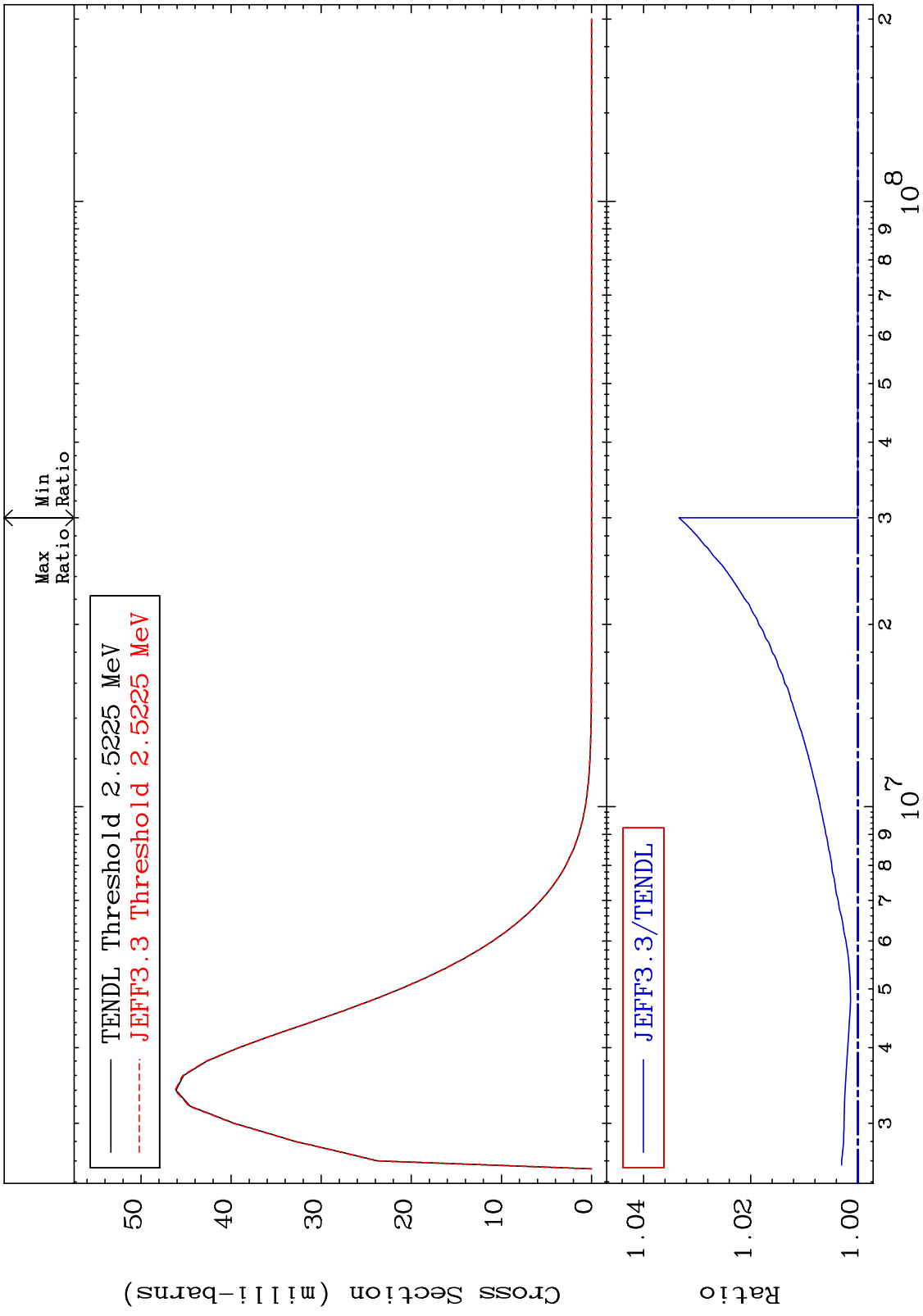
MAT 2828 MT= 65 (n,n') Level Cross Section 28-Ni-59 To 3.325 %



MAT 2828 MT= 66 (n,n') Level Cross Section 28-Ni-59 0.000 To 0.391 %

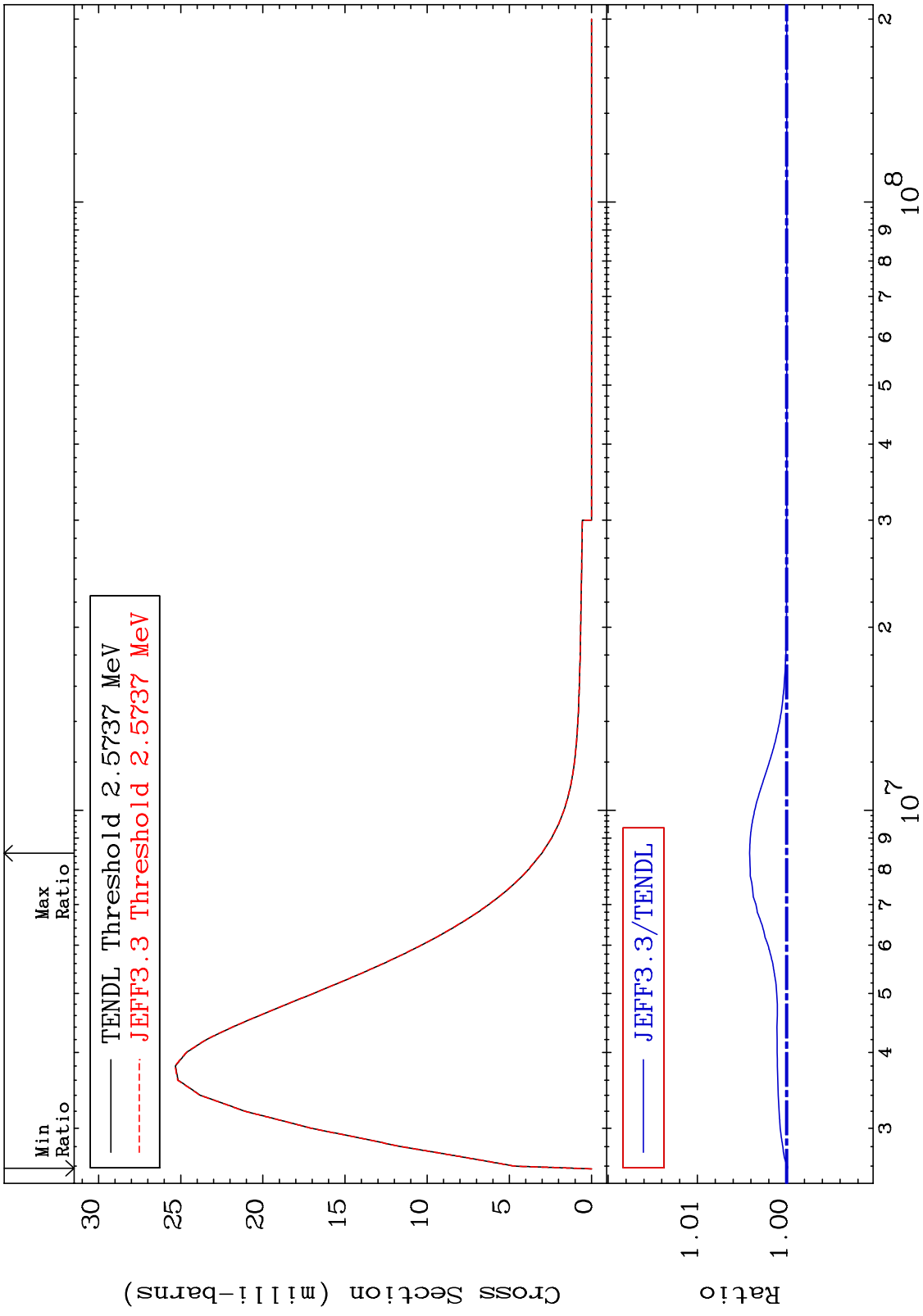


MAT 2828 MT= 67 (n,n') Level Cross Section 28-Ni-59 To 3.338 %

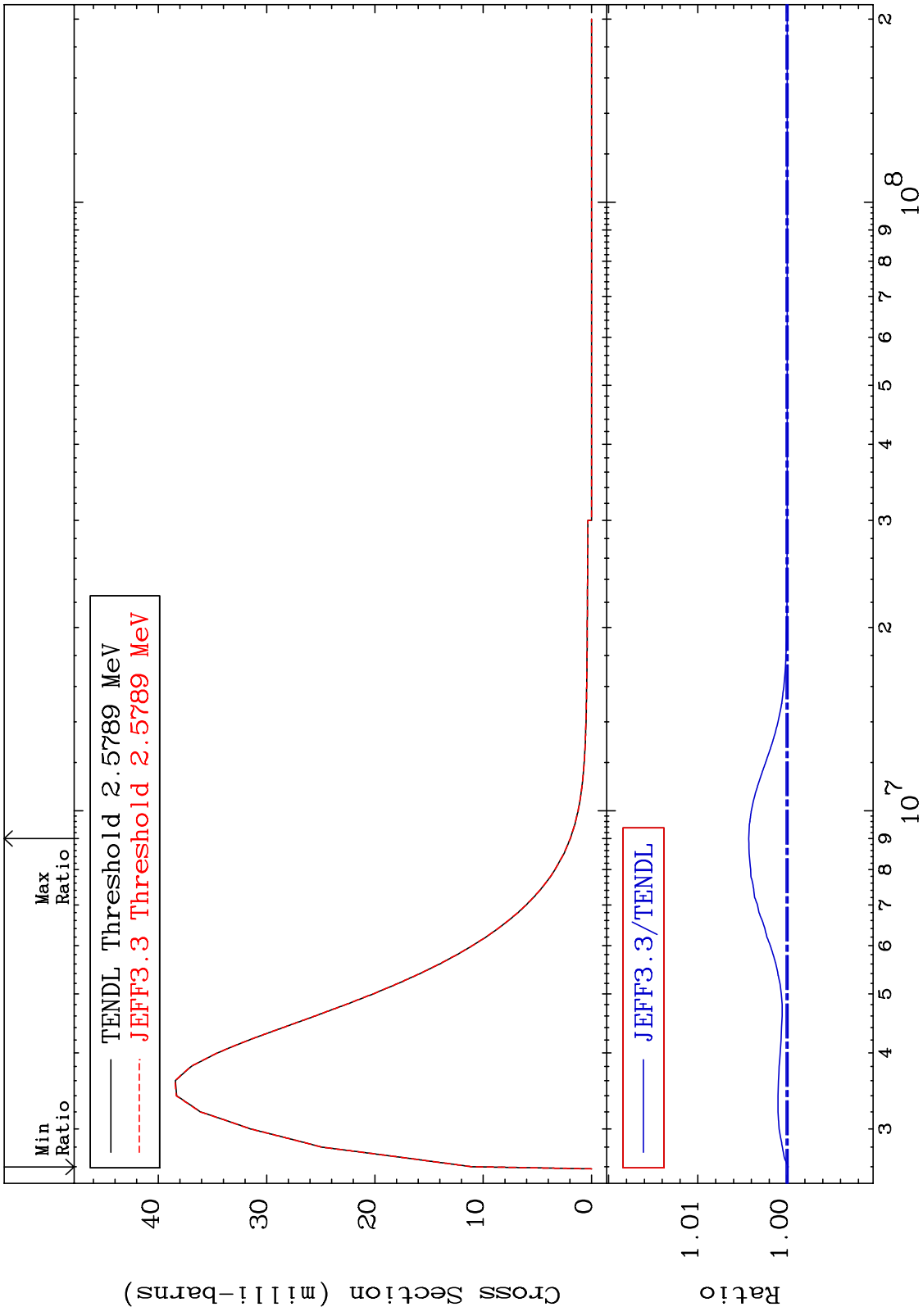


34 28-Ni-59 Incident Energy (eV)

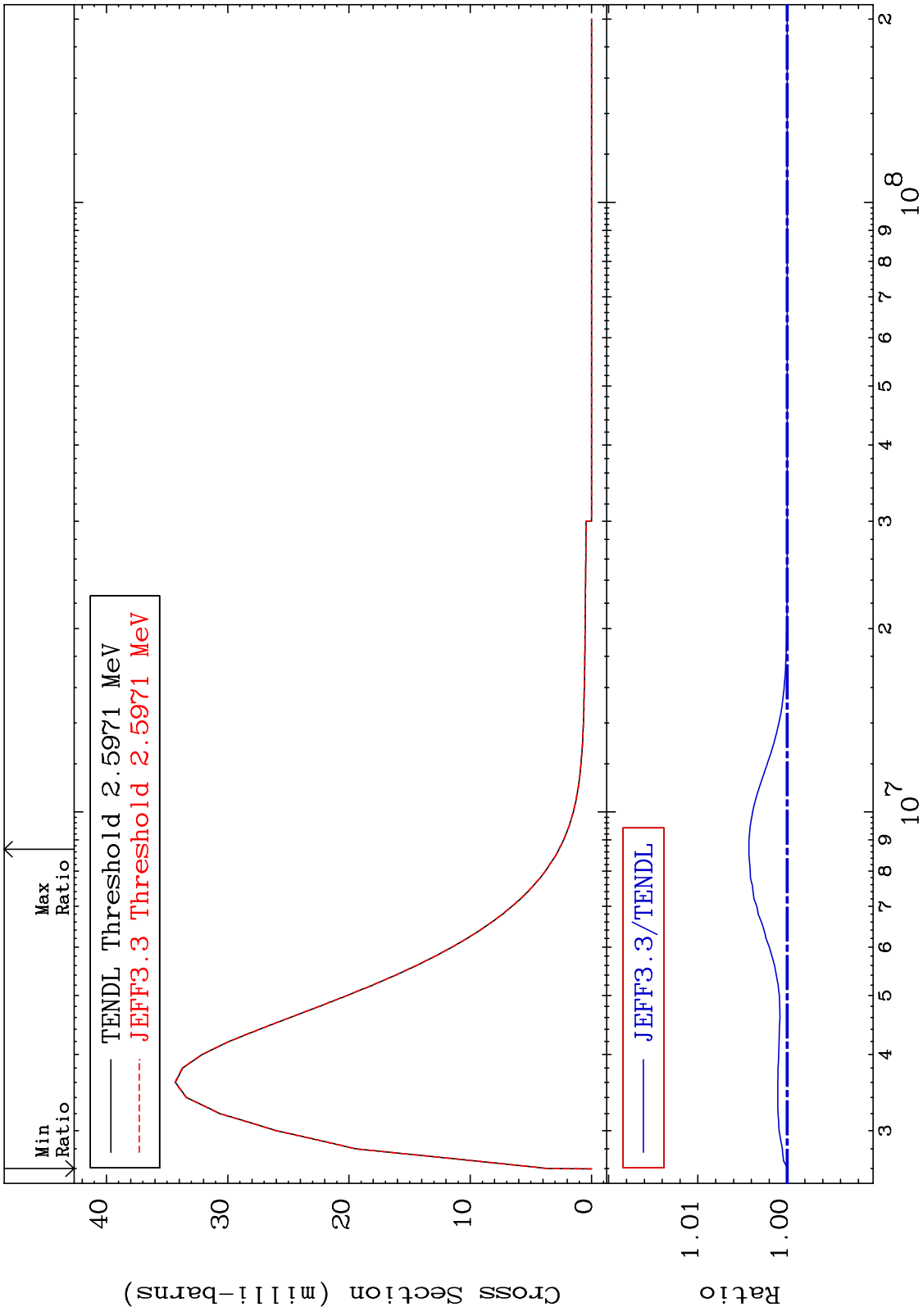
MAT 2828 MT= 68 (n,n') Level Cross Section 28-Ni-59 -0.008 To 0.416 %



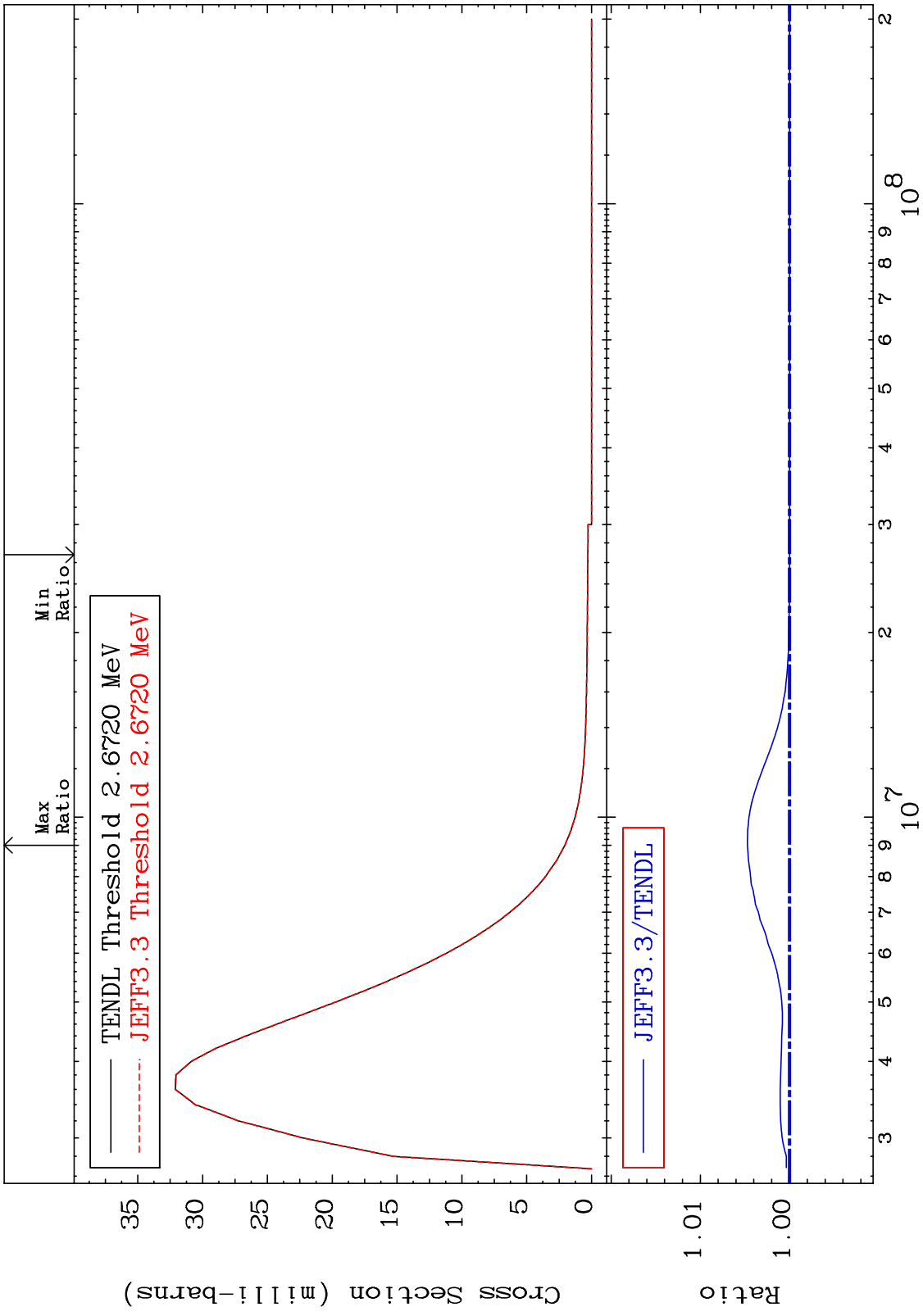
MAT 2828 MT= 69 (n,n') Level Cross Section 28-Ni-59 -0.013 To 0.431 %



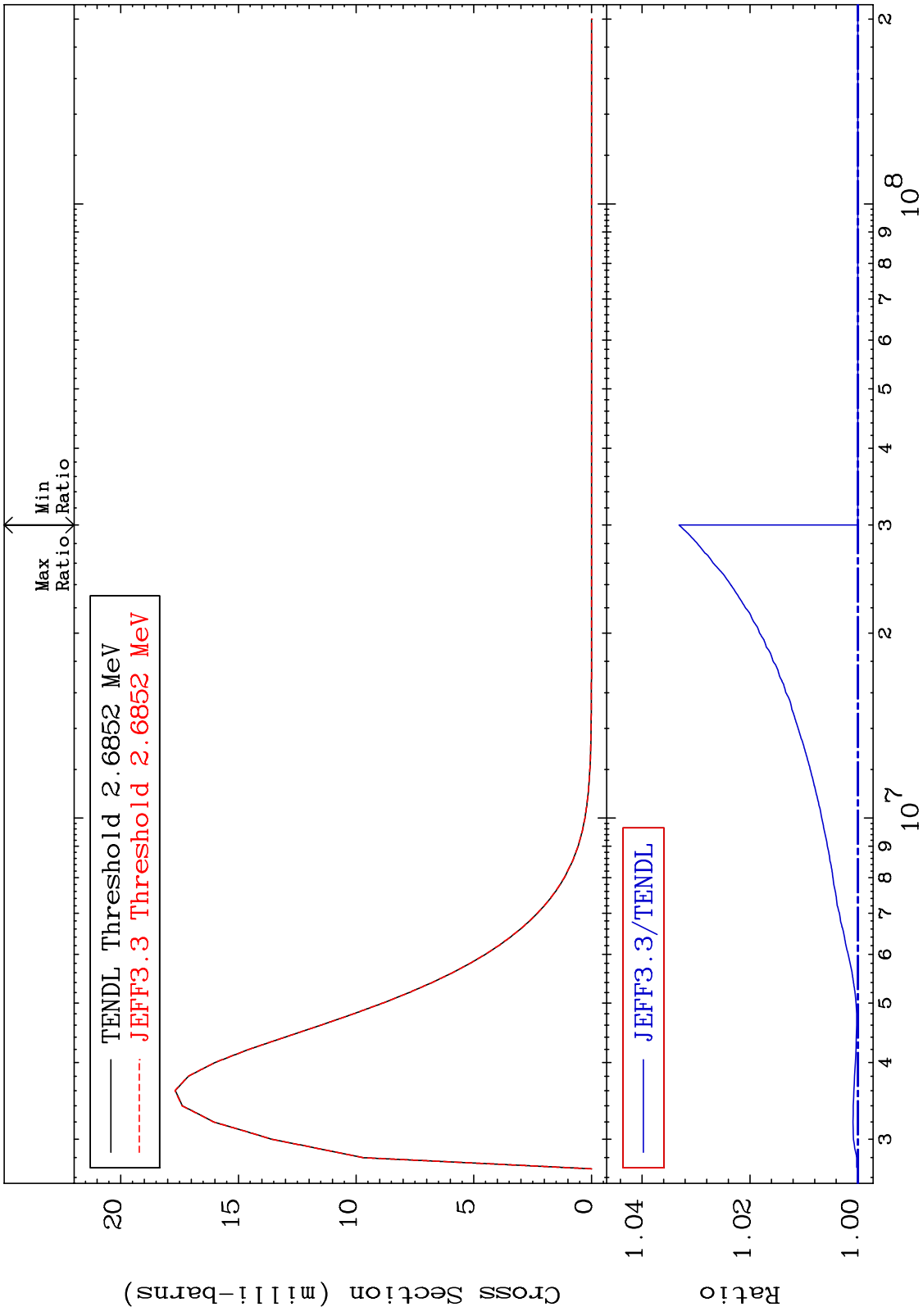
MAT 2828 MT= 70 (n,n') Level Cross Section 28-Ni-59 -0.009 To 0.427 %



MAT 2828 MT= 71 (n,n') Level Cross Section 28-Ni-59 To 0.472 %

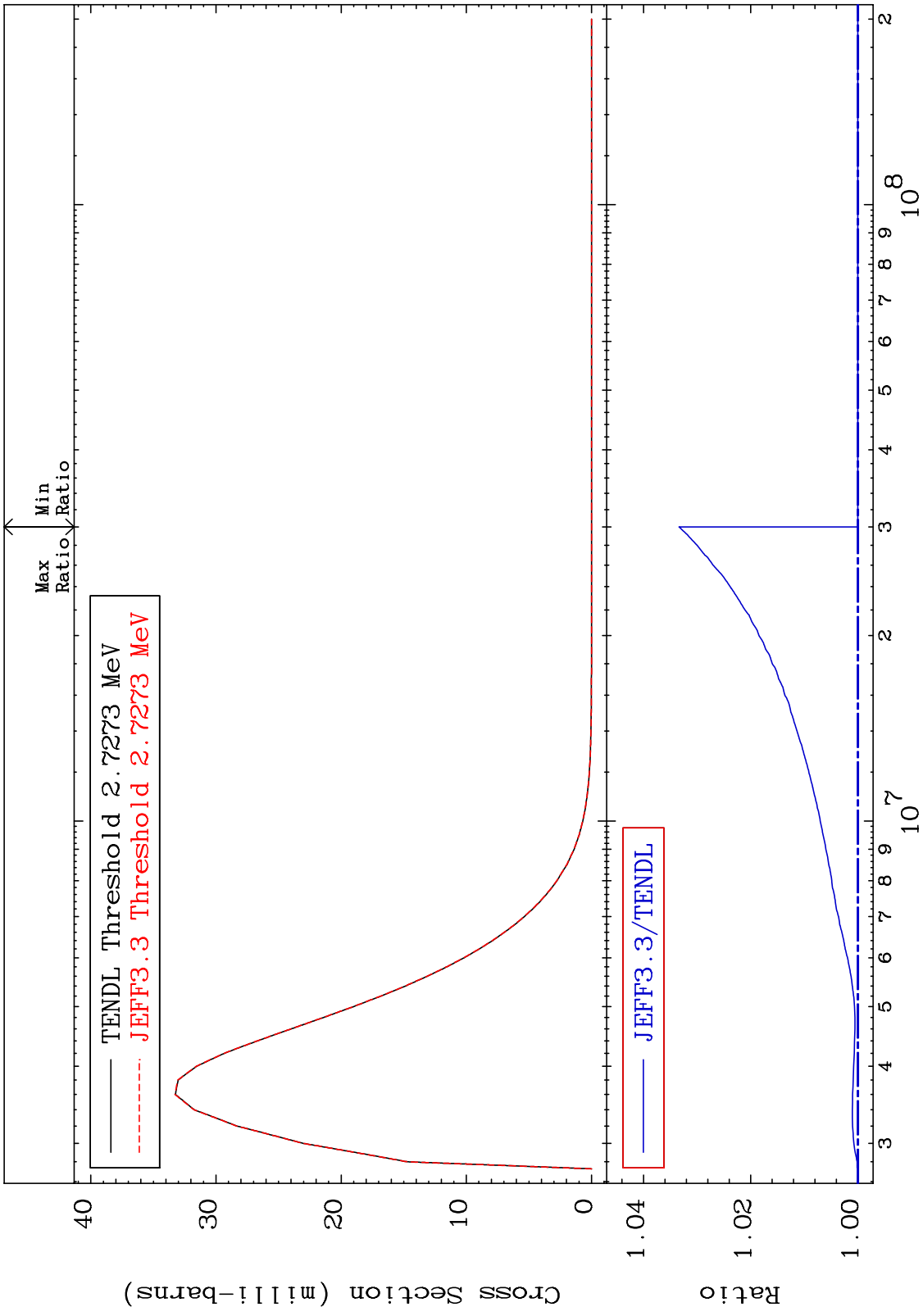


MAT 2828 MT= 72 (n,n') Level Cross Section 28-Ni-59 0.000 To 3.314 %



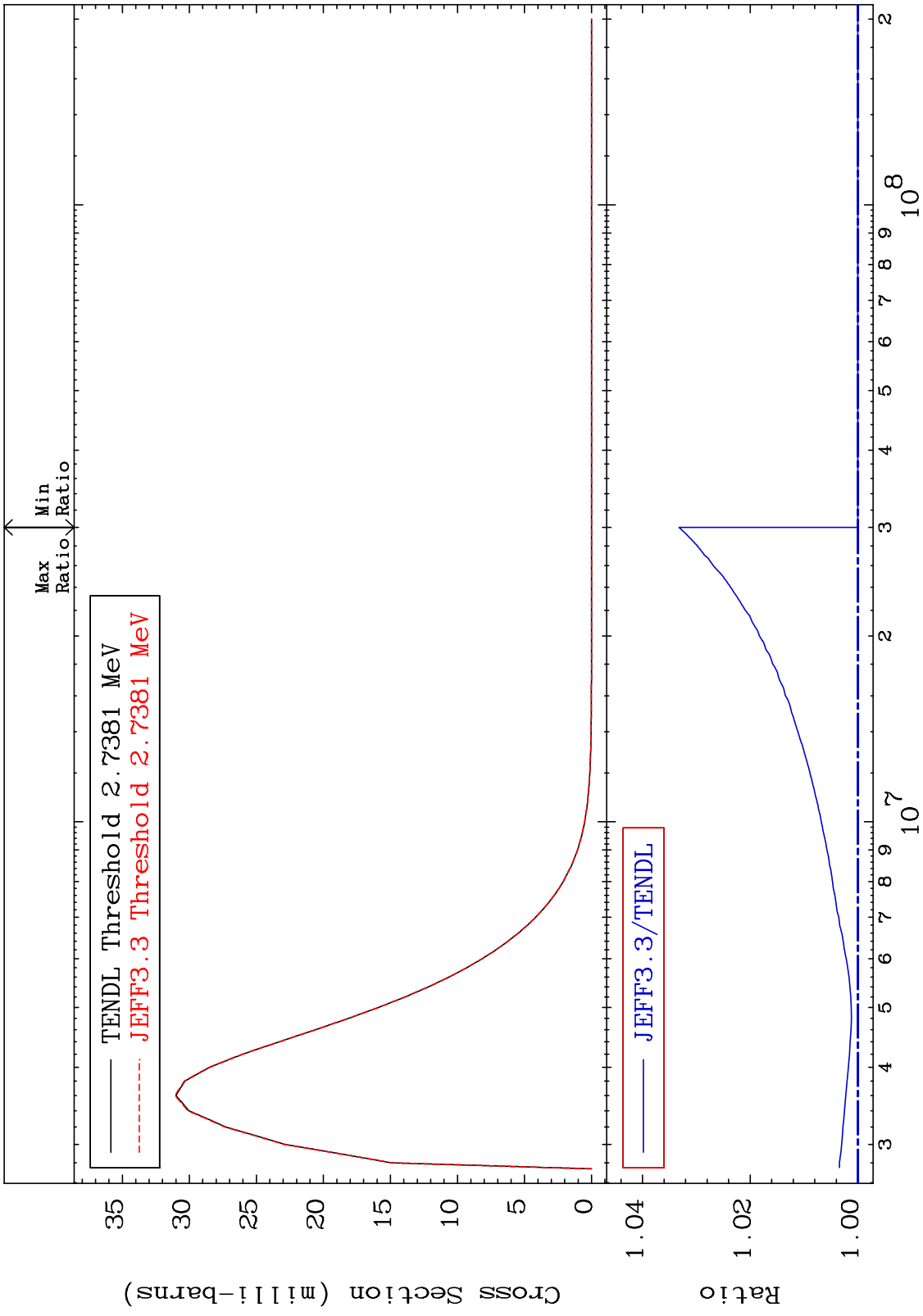


MAT 2828 MT= 73 (n,n') Level Cross Section 28-Ni-59 0.000 To 3.336 %

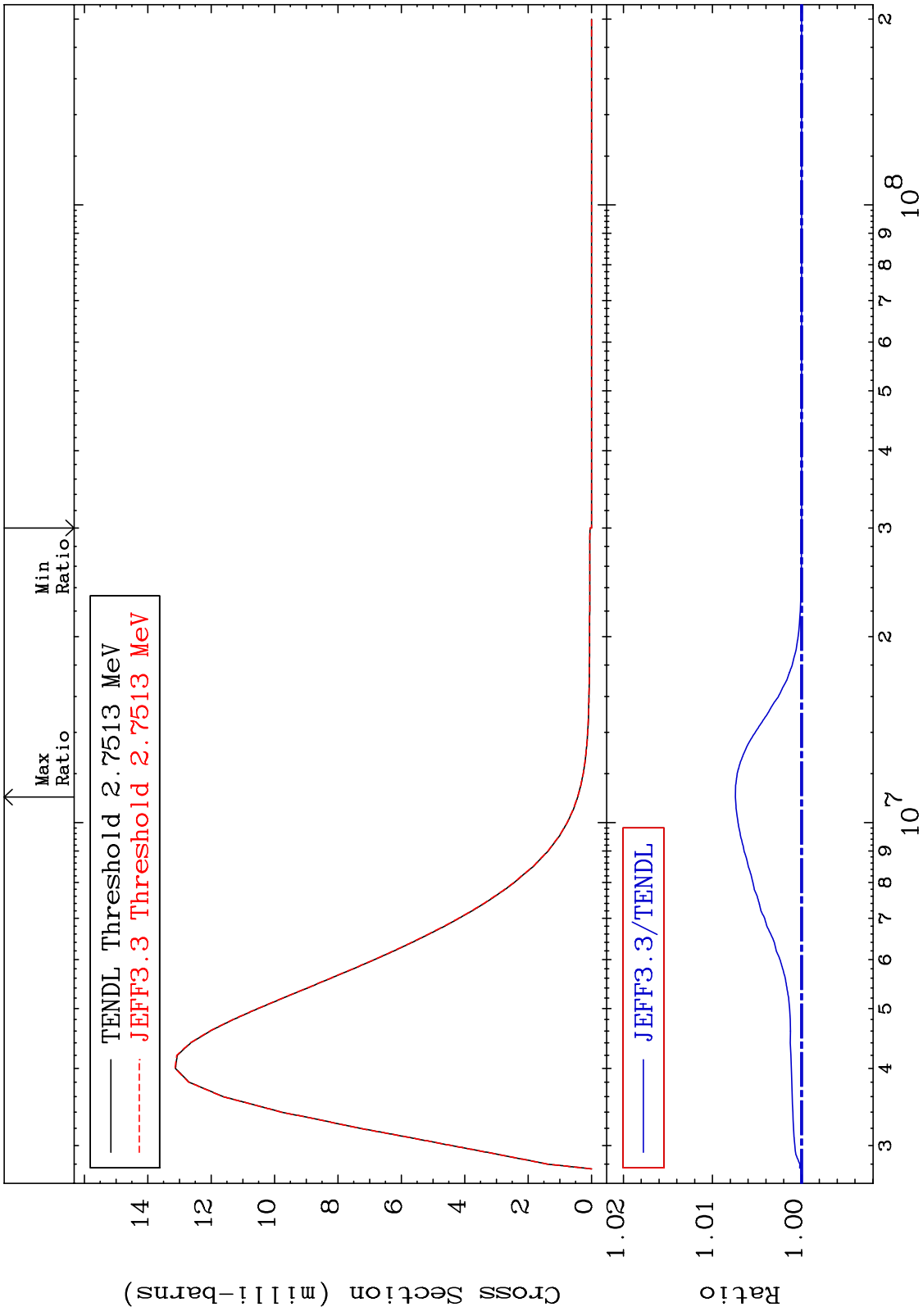


40 Incident Energy (eV) 28-Ni-59

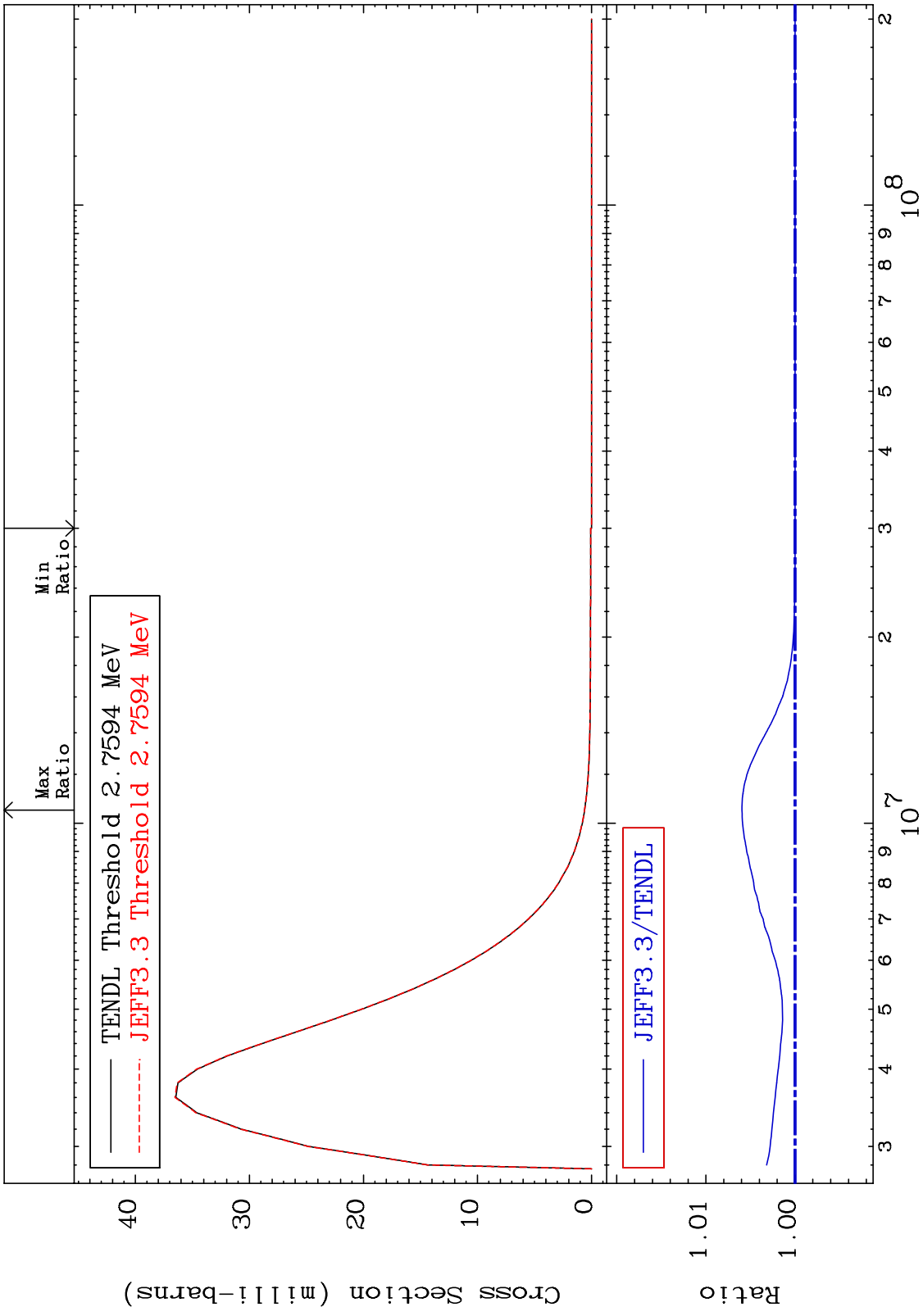
MAT 2828 MT= 74 (n,n') Level Cross Section 28-Ni-59 To 3.322 %



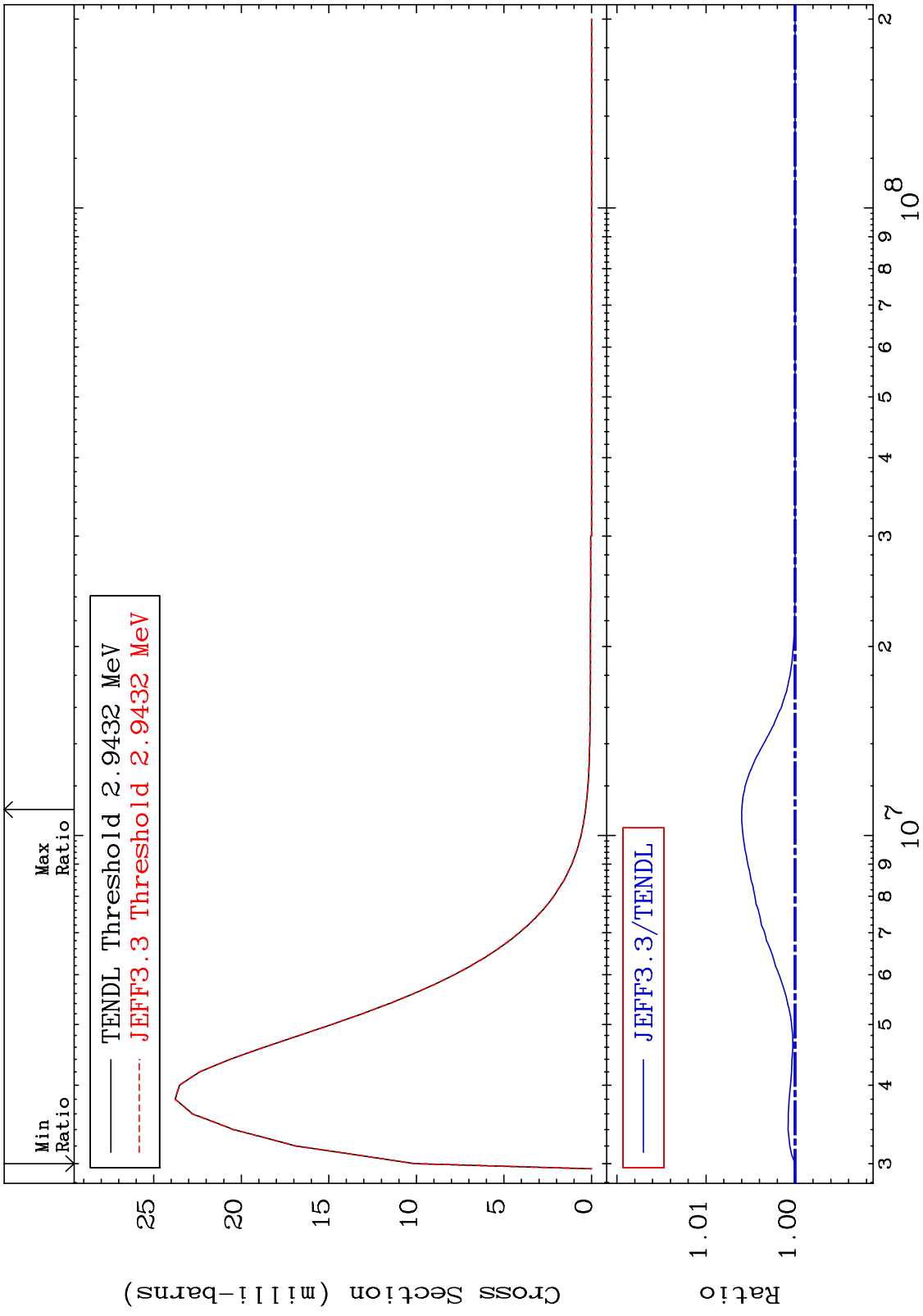
MAT 2828 MT= 75 (n,n') Level Cross Section 28-Ni-59 To 0.743 %



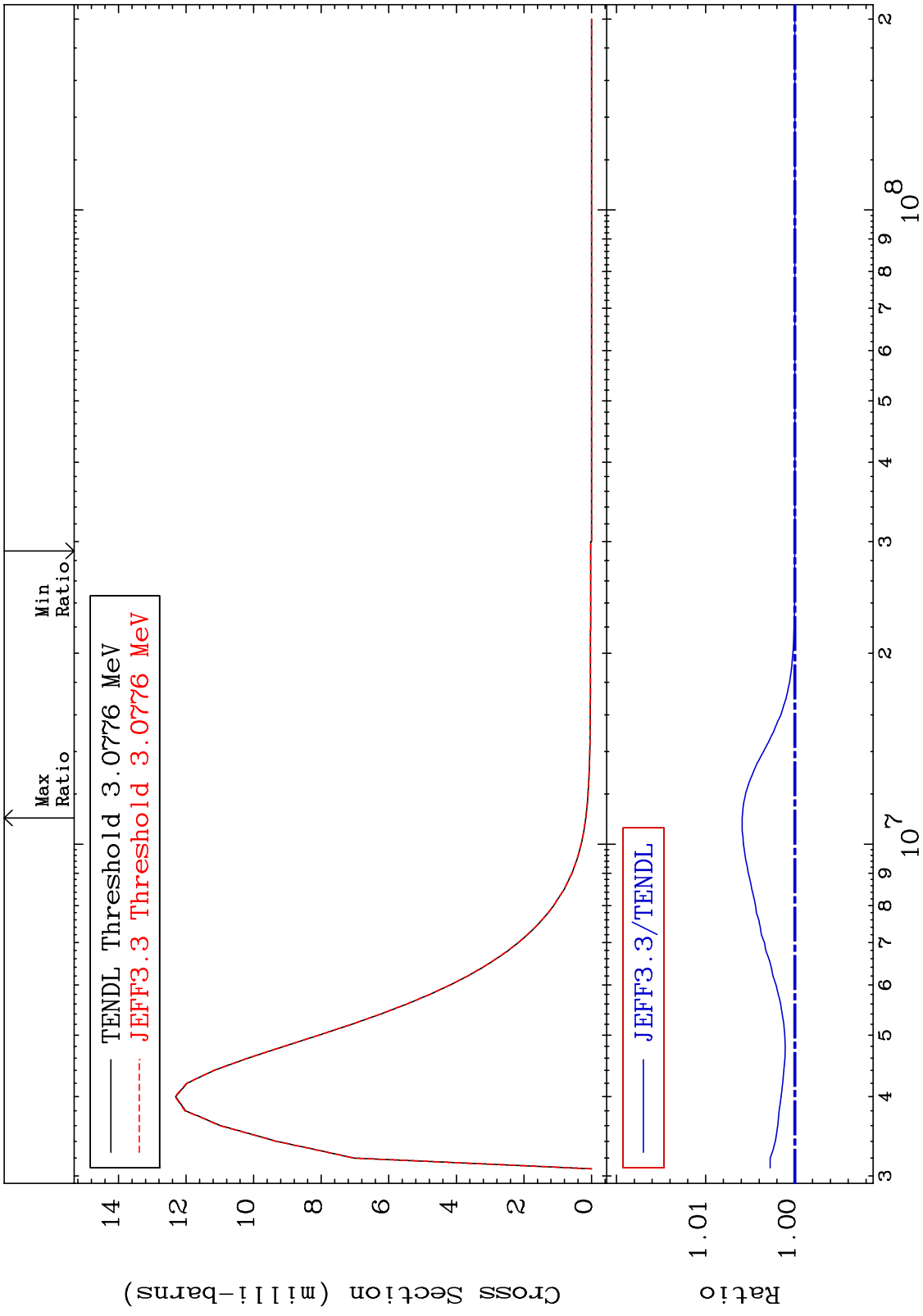
MAT 2828 MT= 76 (n,n') Level Cross Section 28-Ni-59 To 0.597 %



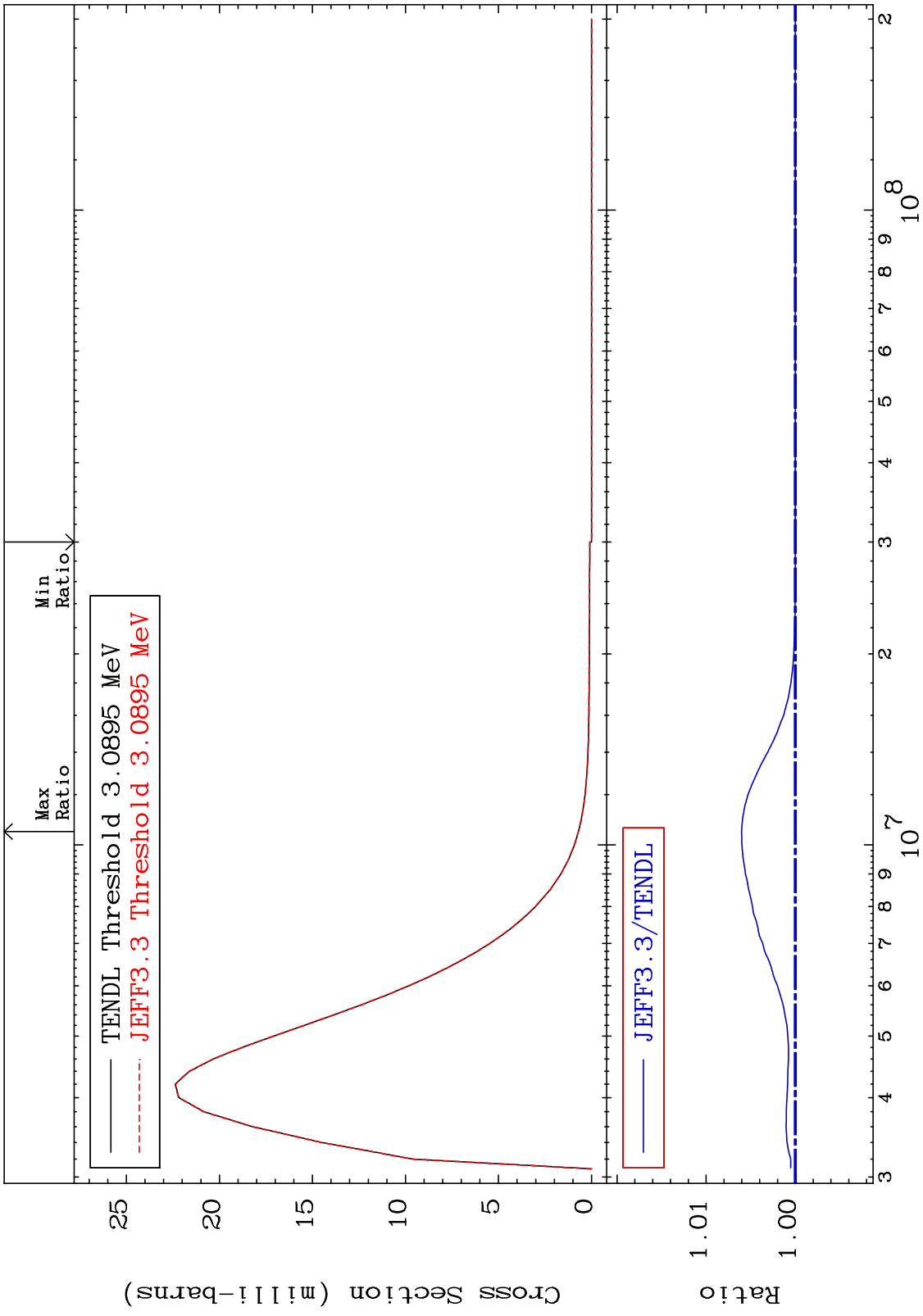
MAT 2828 MT= 77 (n,n') Level Cross Section 28-Ni-59 To 0.599 %



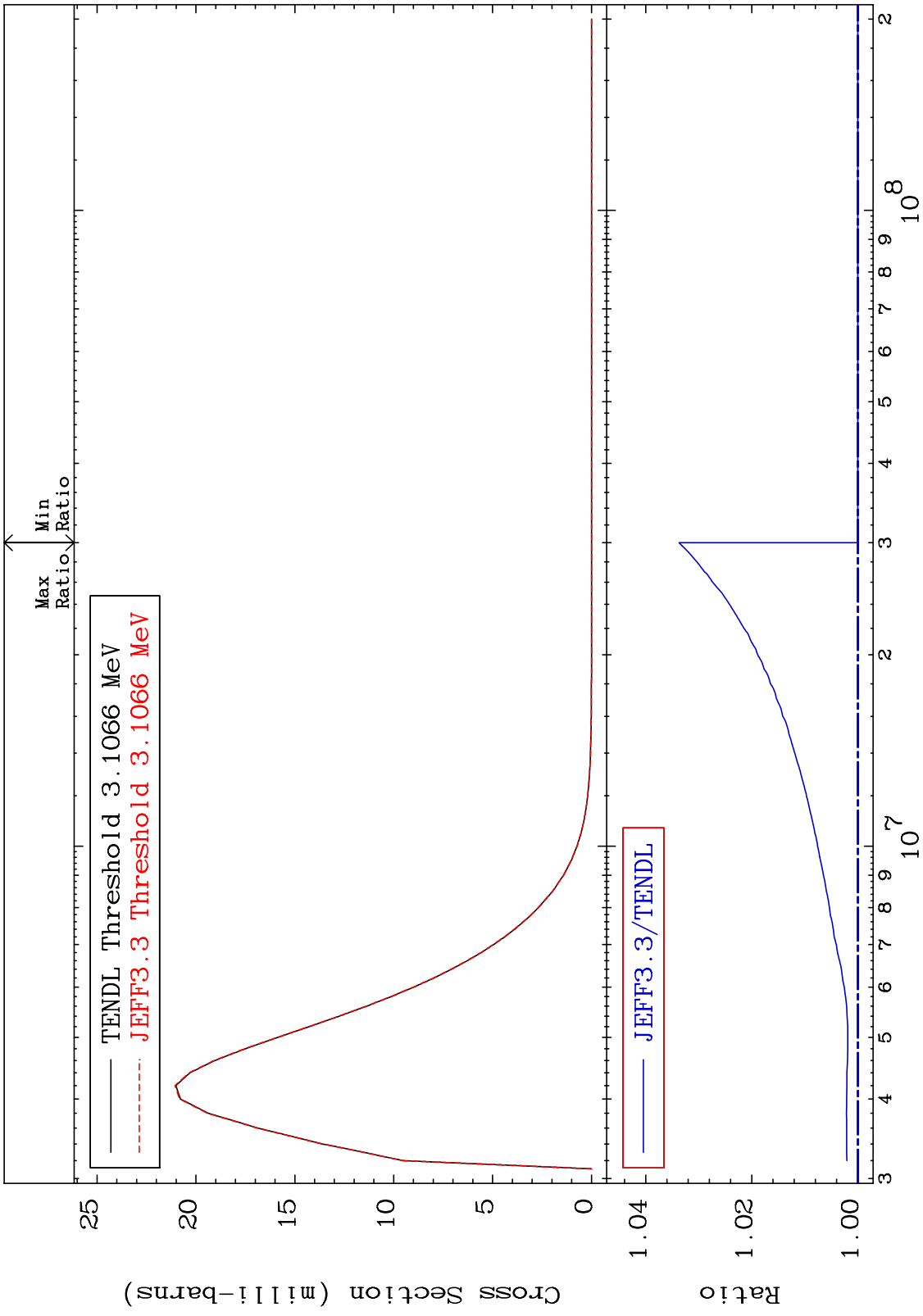
MAT 2828 MT= 78 (n,n') Level Cross Section 28-Ni-59 To 0.590 %



MAT 2828 MT= 79 (n,n') Level Cross Section 28-Ni-59 To 0.602 %



MAT 2828 MT= 80 (n,n') Level Cross Section 28-Ni-59 To 3.373 %

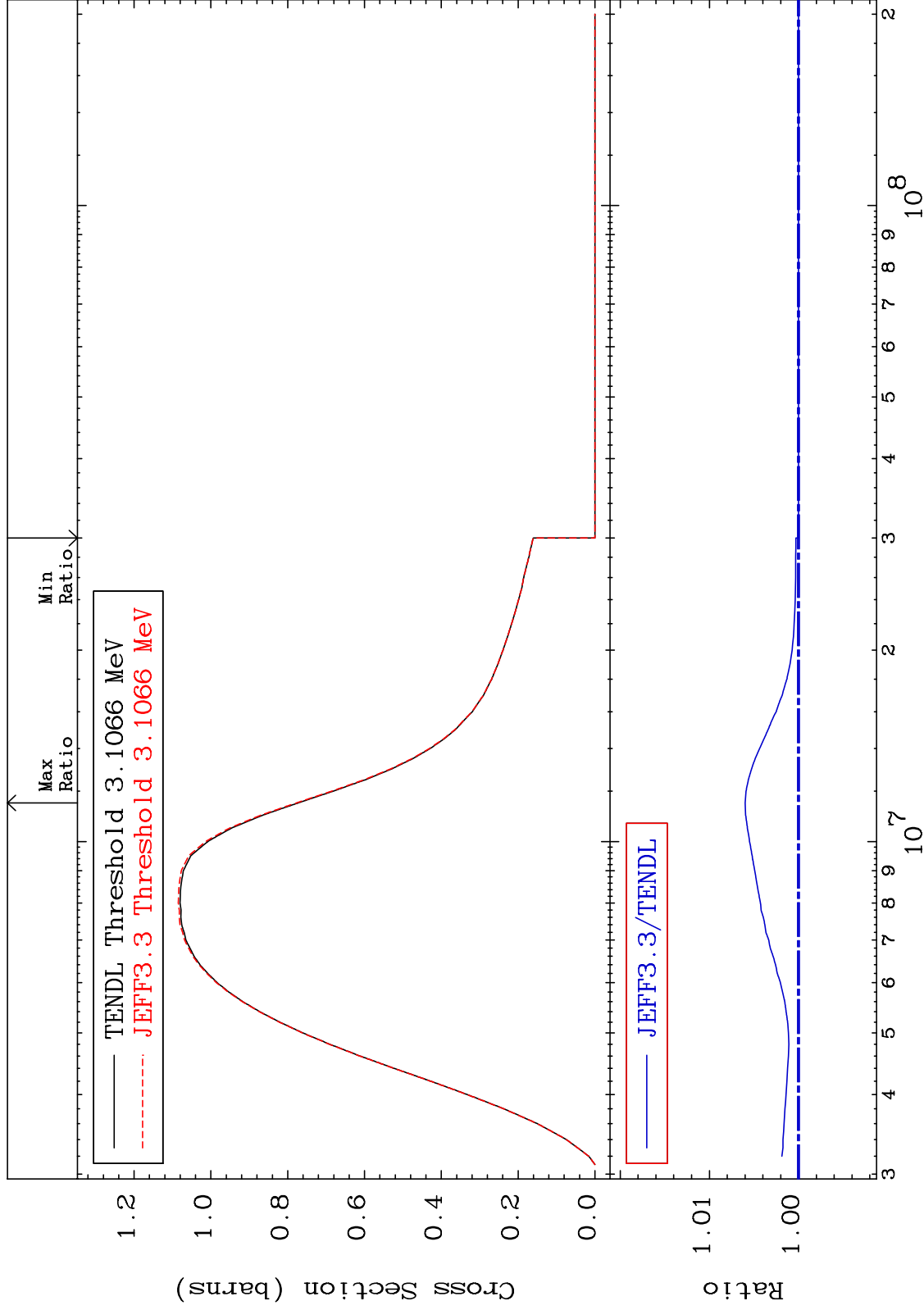




MAT 2828

(n,n') Continuum  
Cross Section

28-Ni-59  
0.000 To 0.598 %



48

Incident Energy (eV)

28-Ni-59

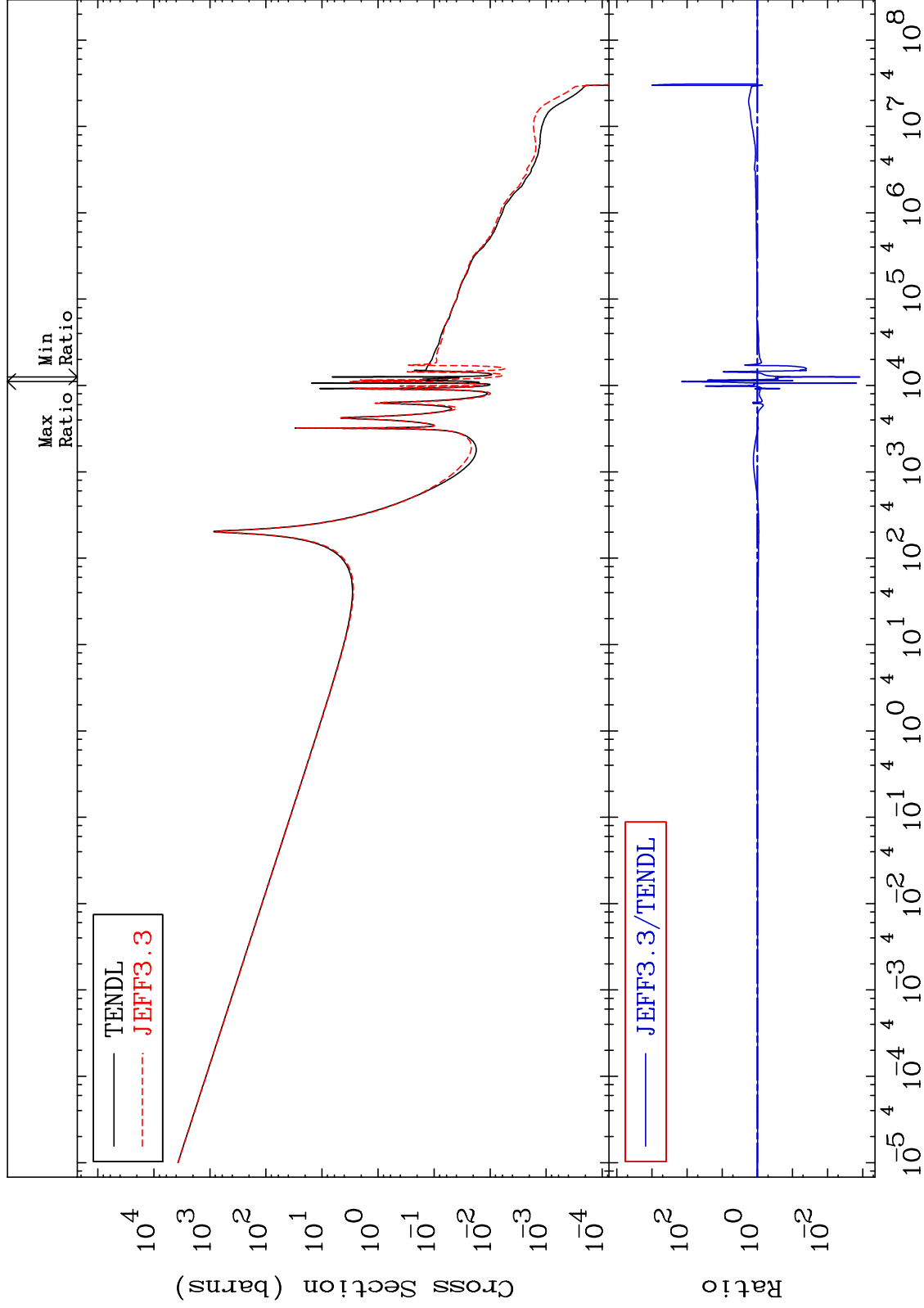
MAT 2828

(n,  $\gamma$ )

28-Ni-59

Cross Section

-99.88 To 9999. %



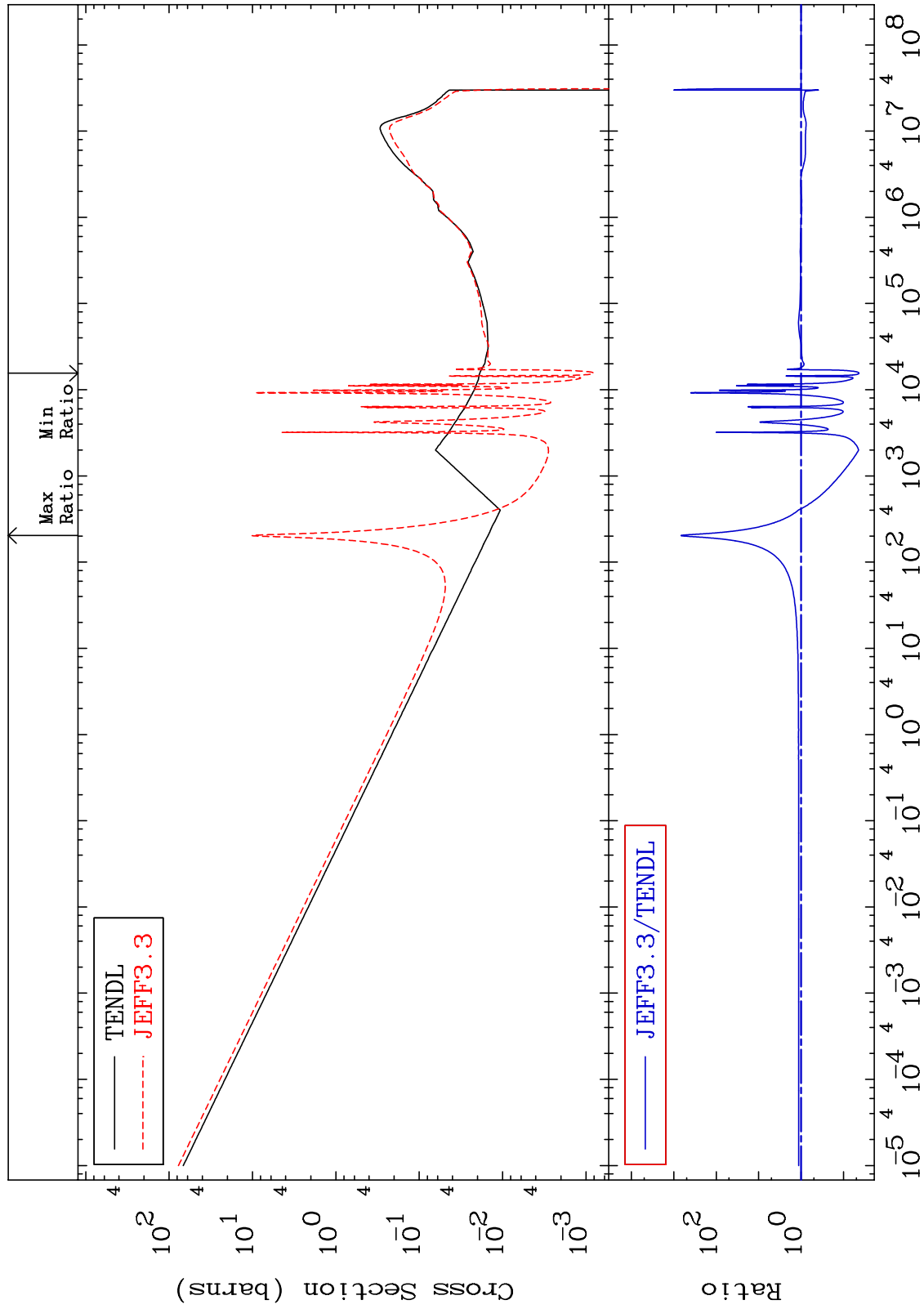
MAT 2828

(n,p)

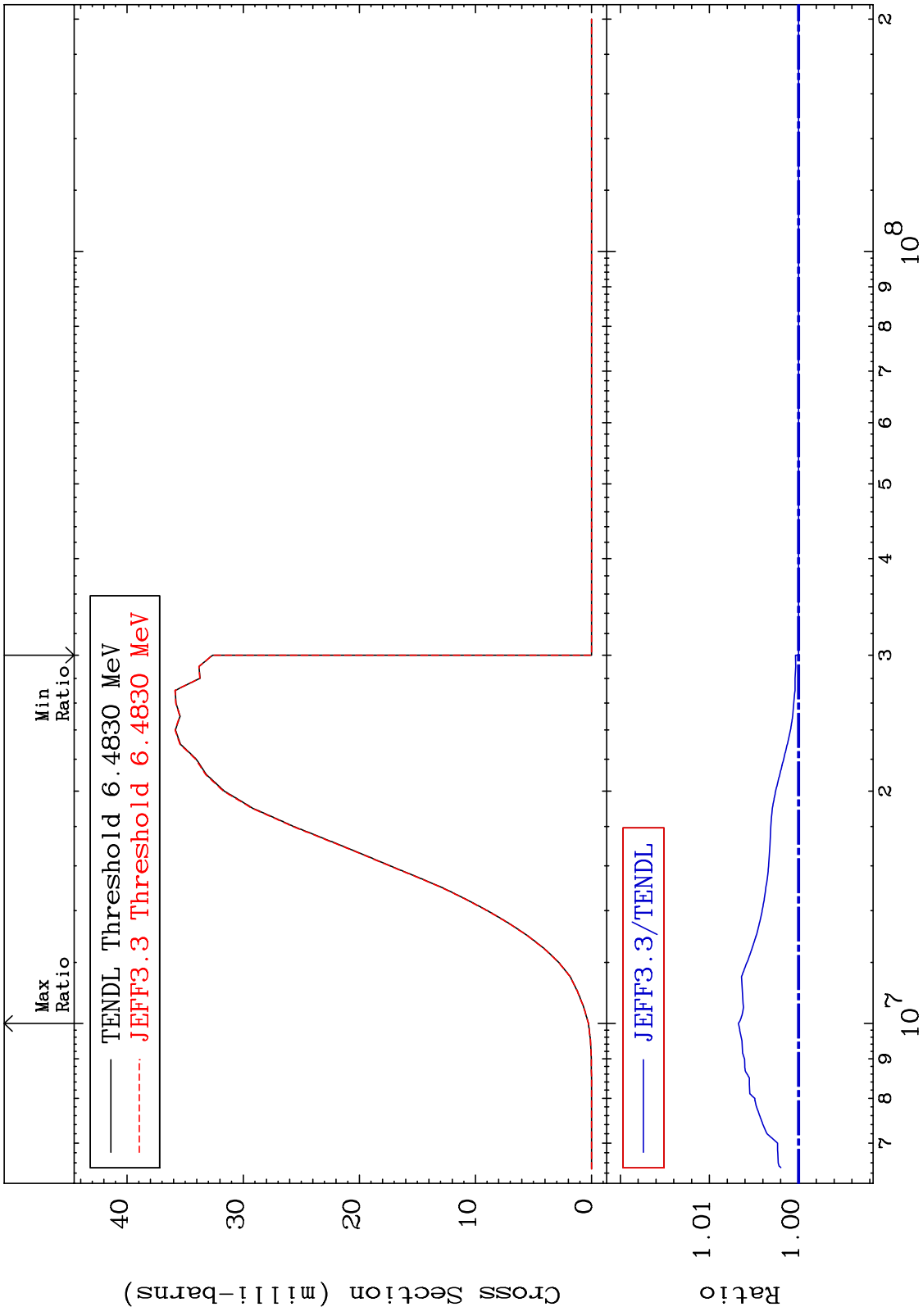
28-Ni-59

Cross Section

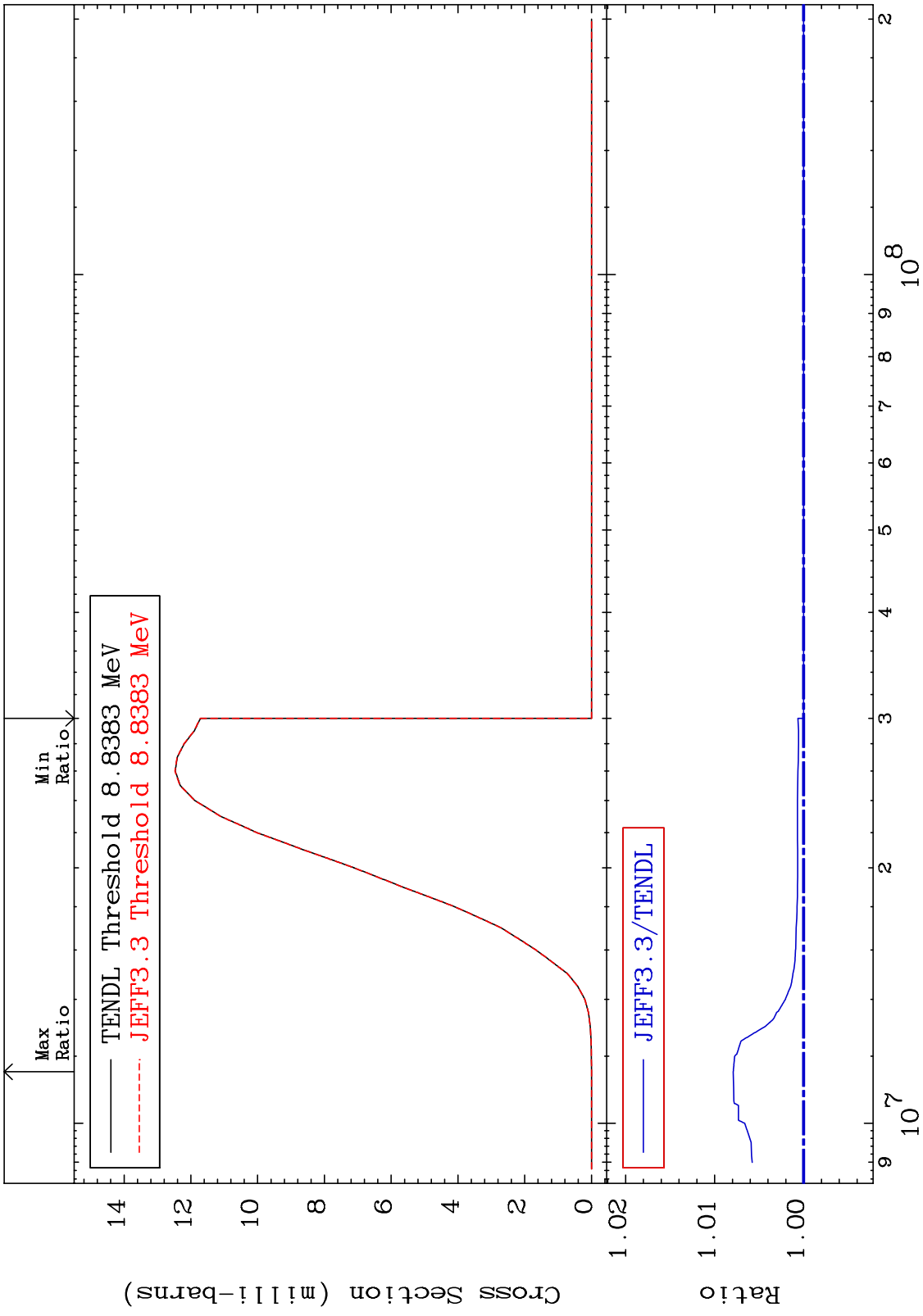
-95.69 To 9999. %

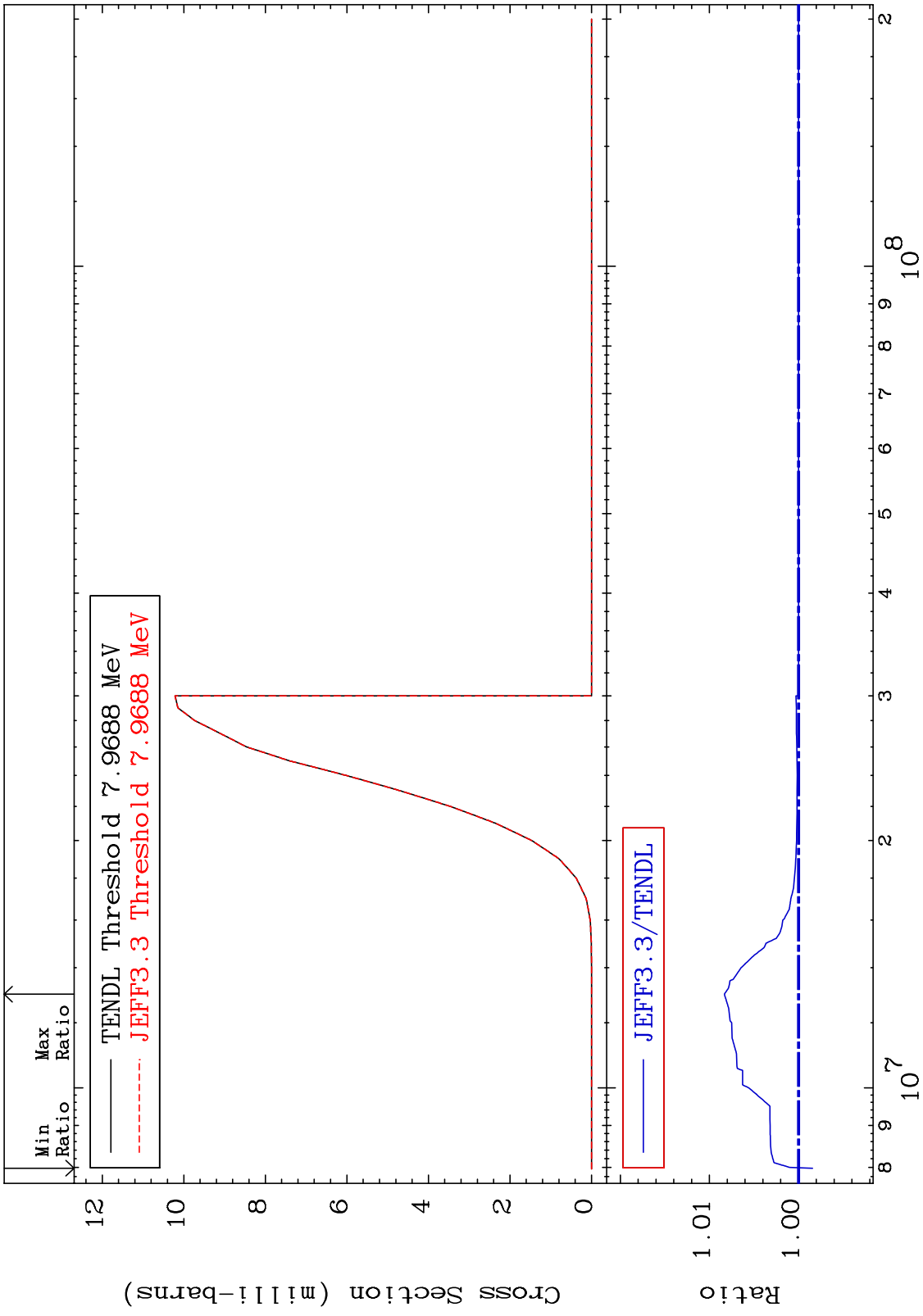


MAT 2828 (n,d) 28-Ni-59  
Cross Section 0.000 To 0.675 %



MAT 2828 (n,t) Cross Section 28-Ni-59 To 0.791 %





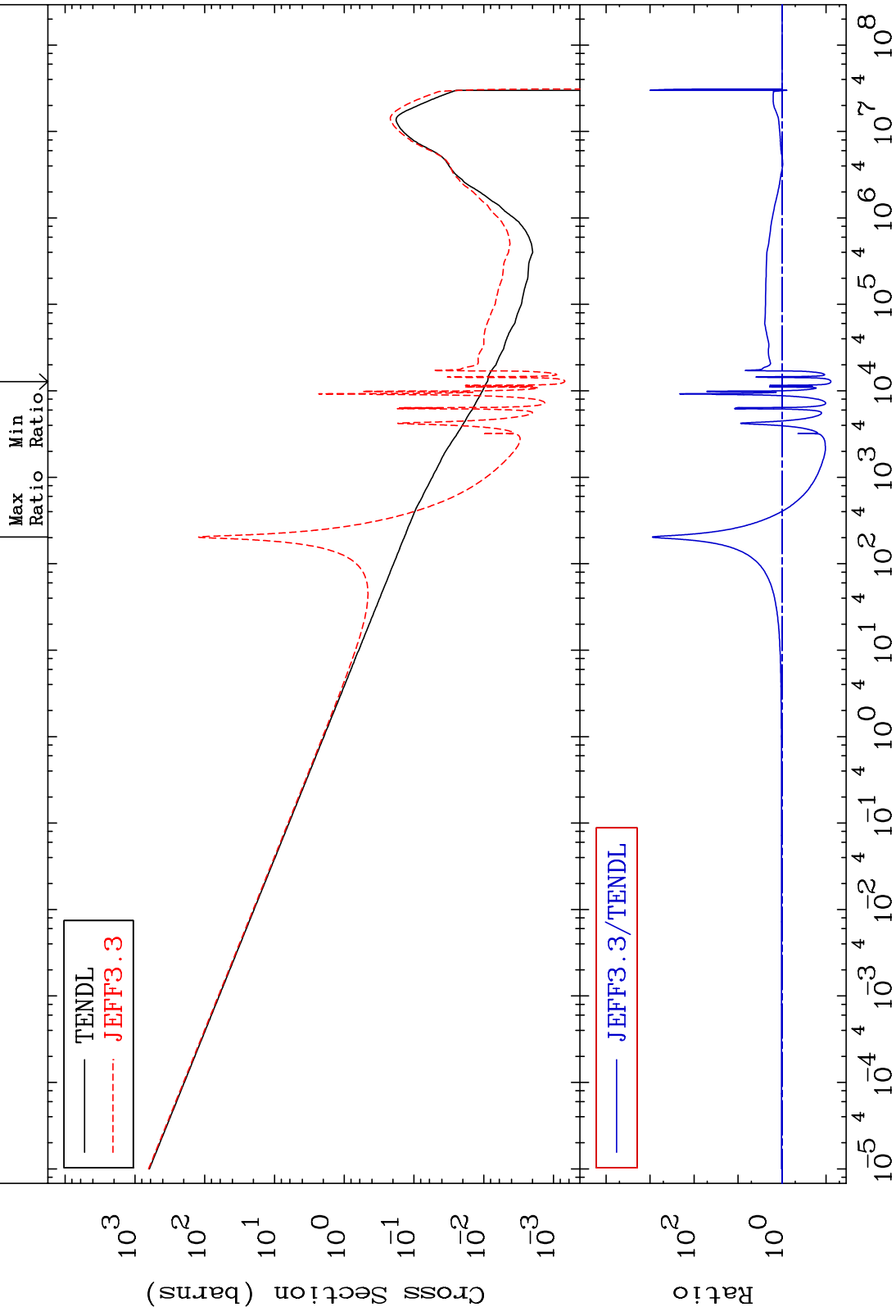
MAT 2828

(n,  $\alpha$ )

28-Ni-59

-92.23 To 9999. %

Cross Section



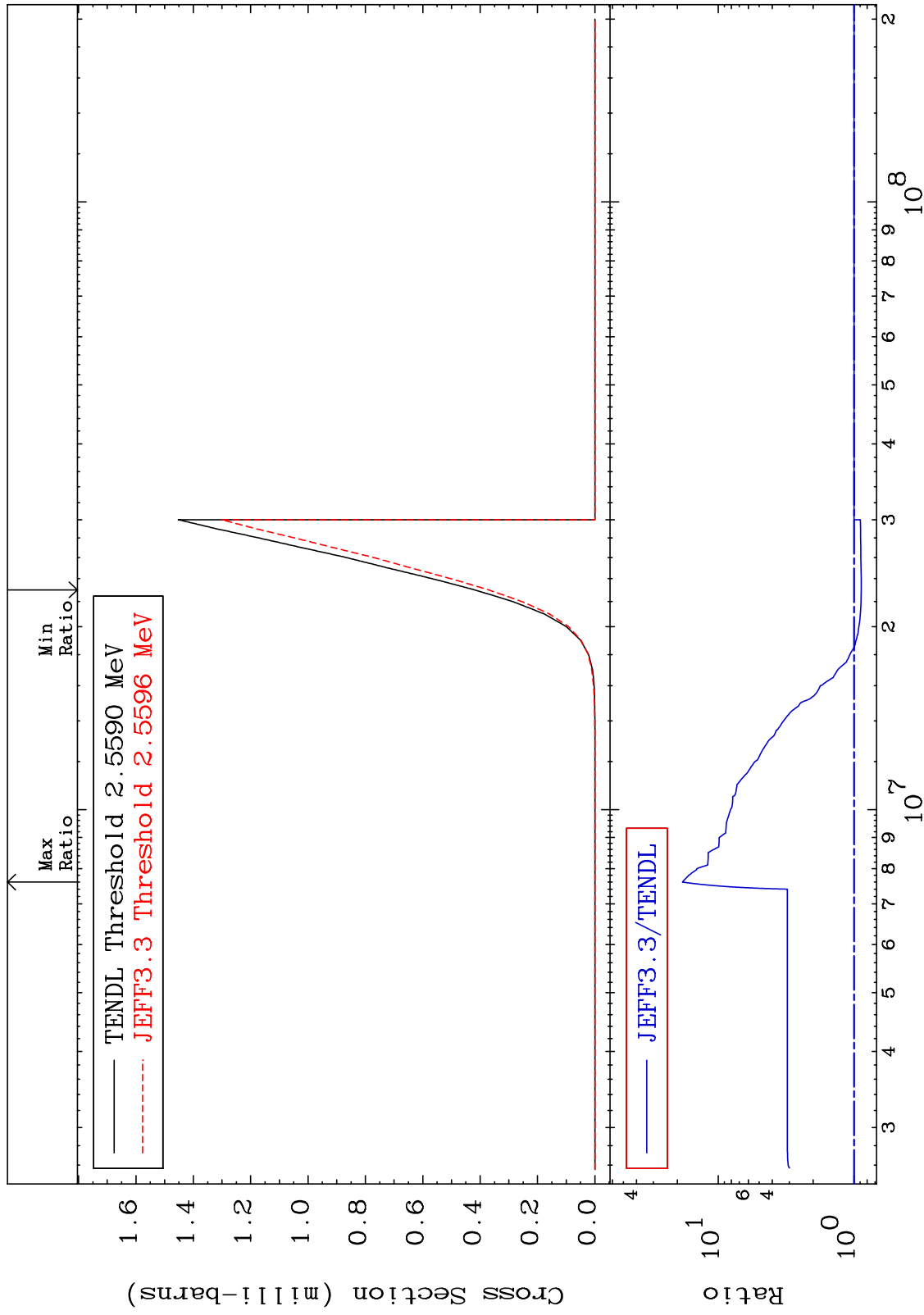
MAT 2828

(n,2α)

28-Ni-59

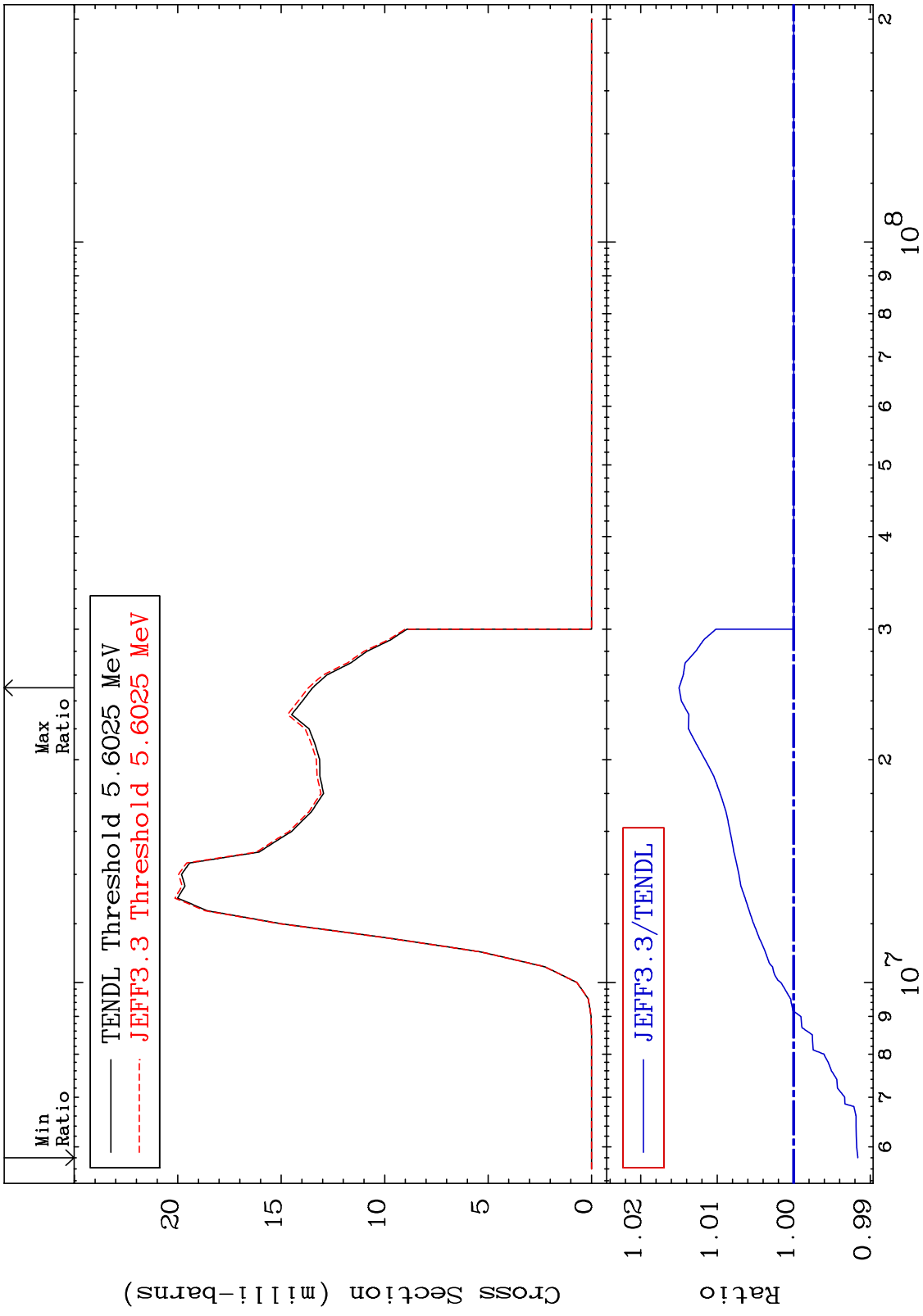
-11.58 To 1733. %

Cross Section

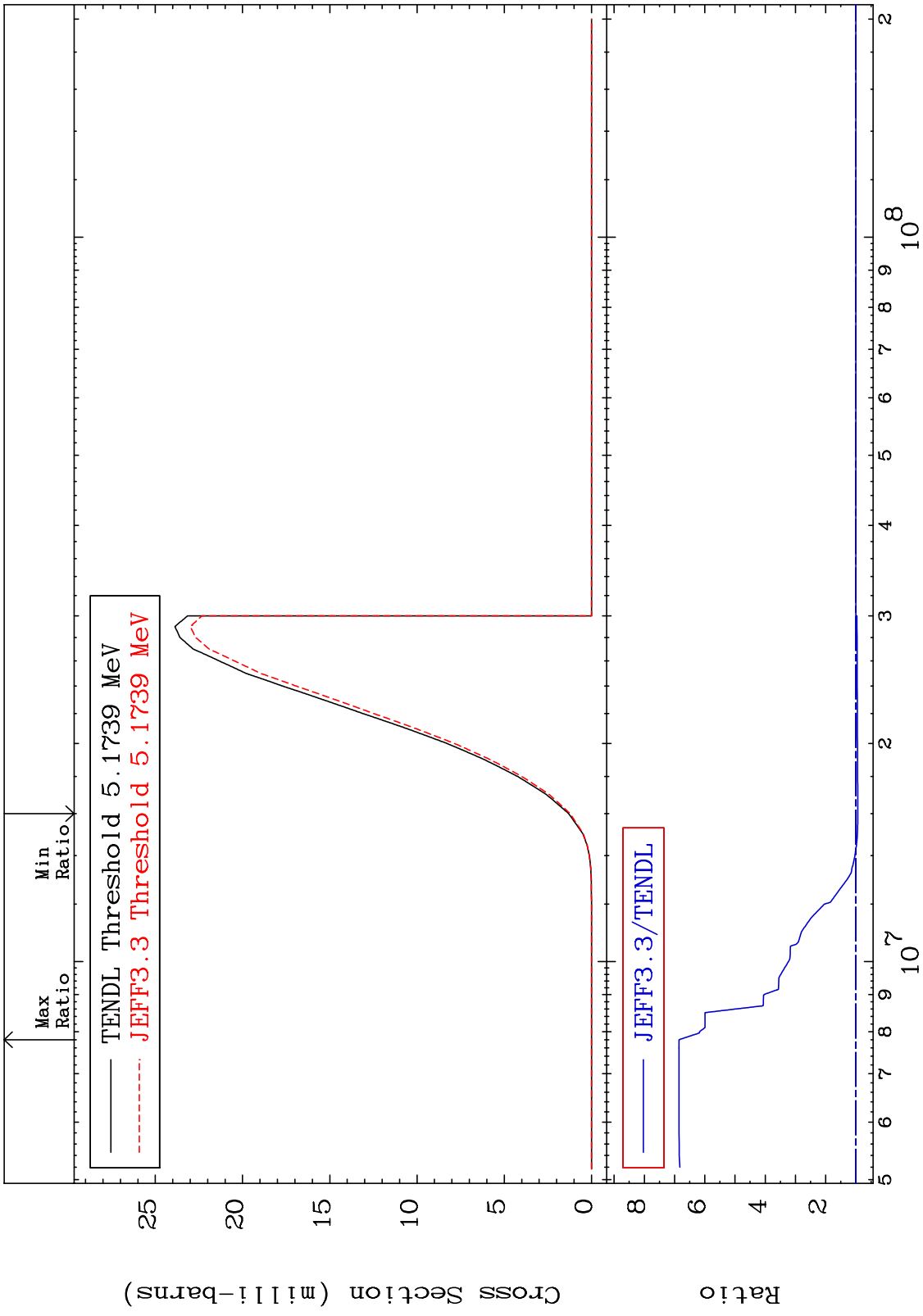


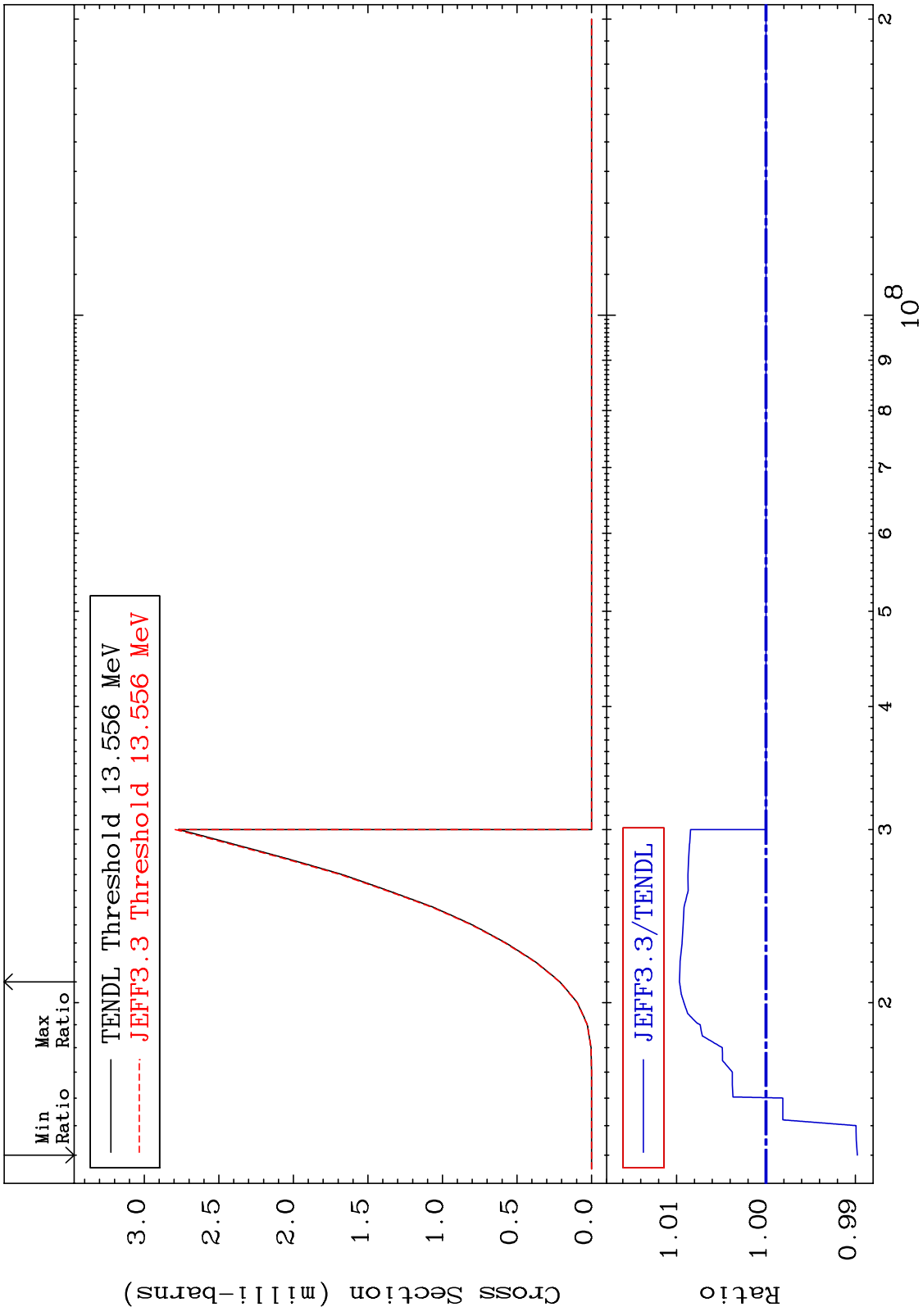


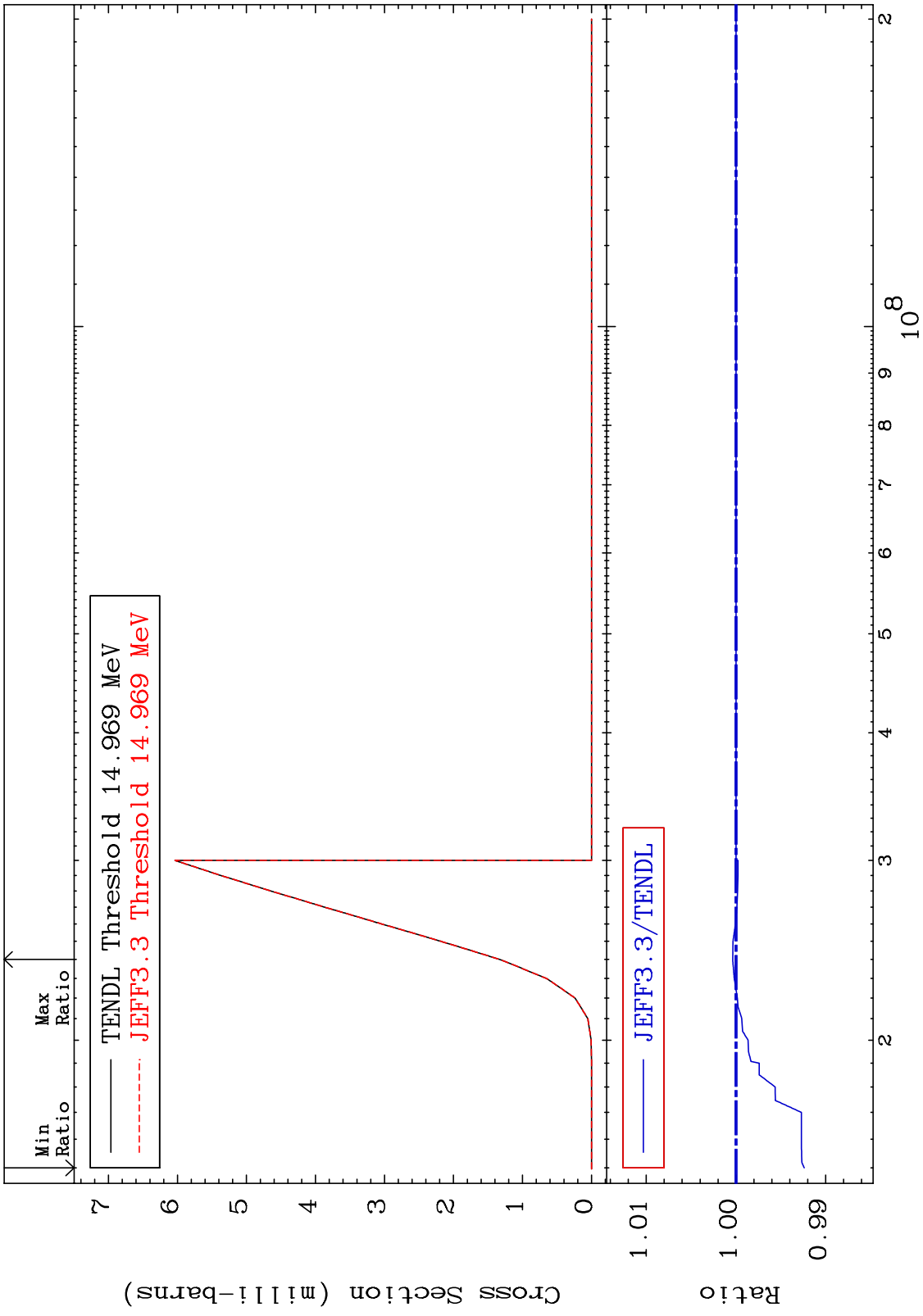
MAT 2828 28-Ni-59  
-0.839 To 1.500 %  
(n,2p) Cross Section



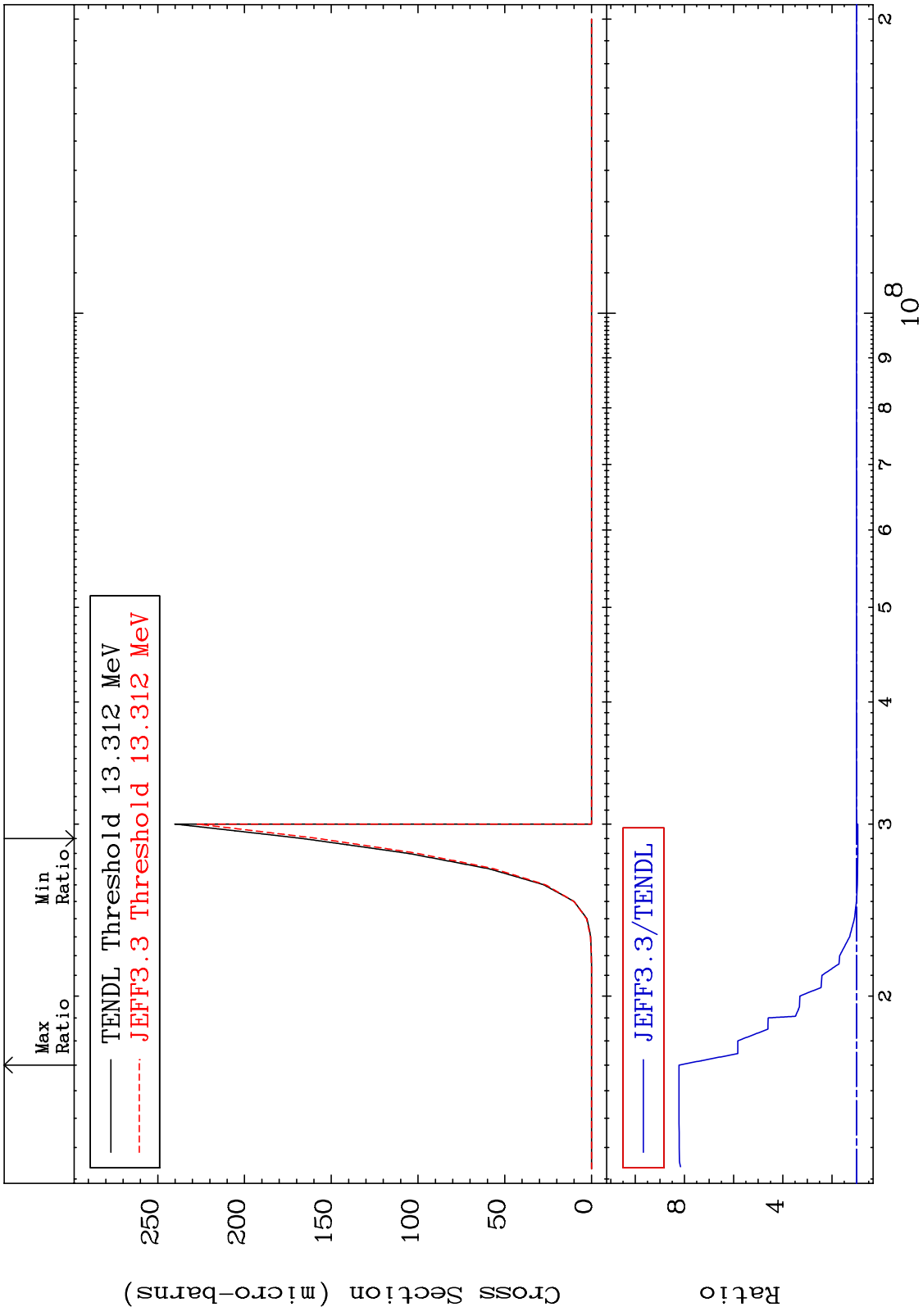
MAT 2828  $(n,p) \alpha$  28-Ni-59  
 Cross Section -6.392 To 585.2 %







MAT 2828 (n,d)  $\alpha$  28-Ni-59  
 Cross Section -5.421 To 722.0 %

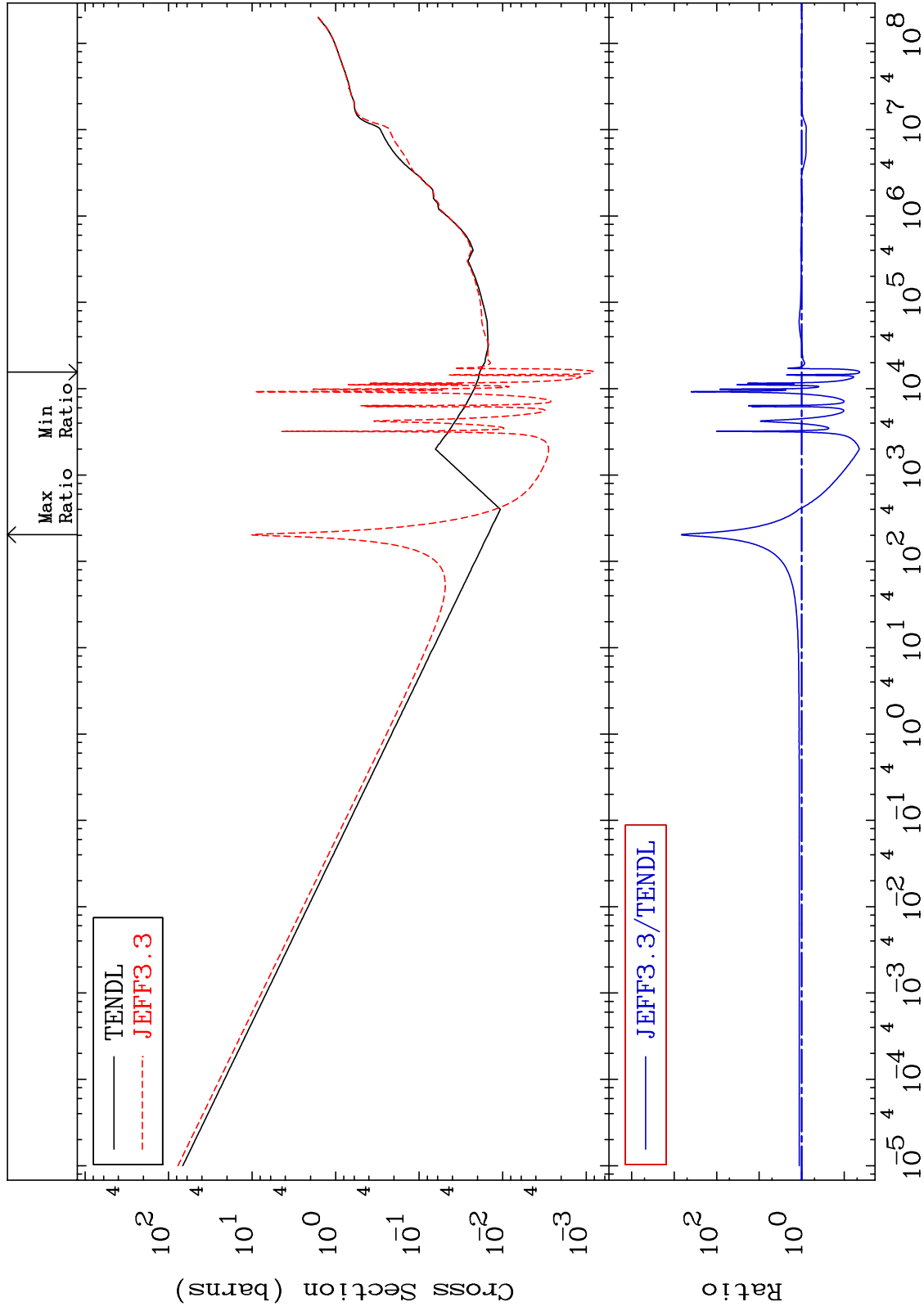


60 28-Ni-59

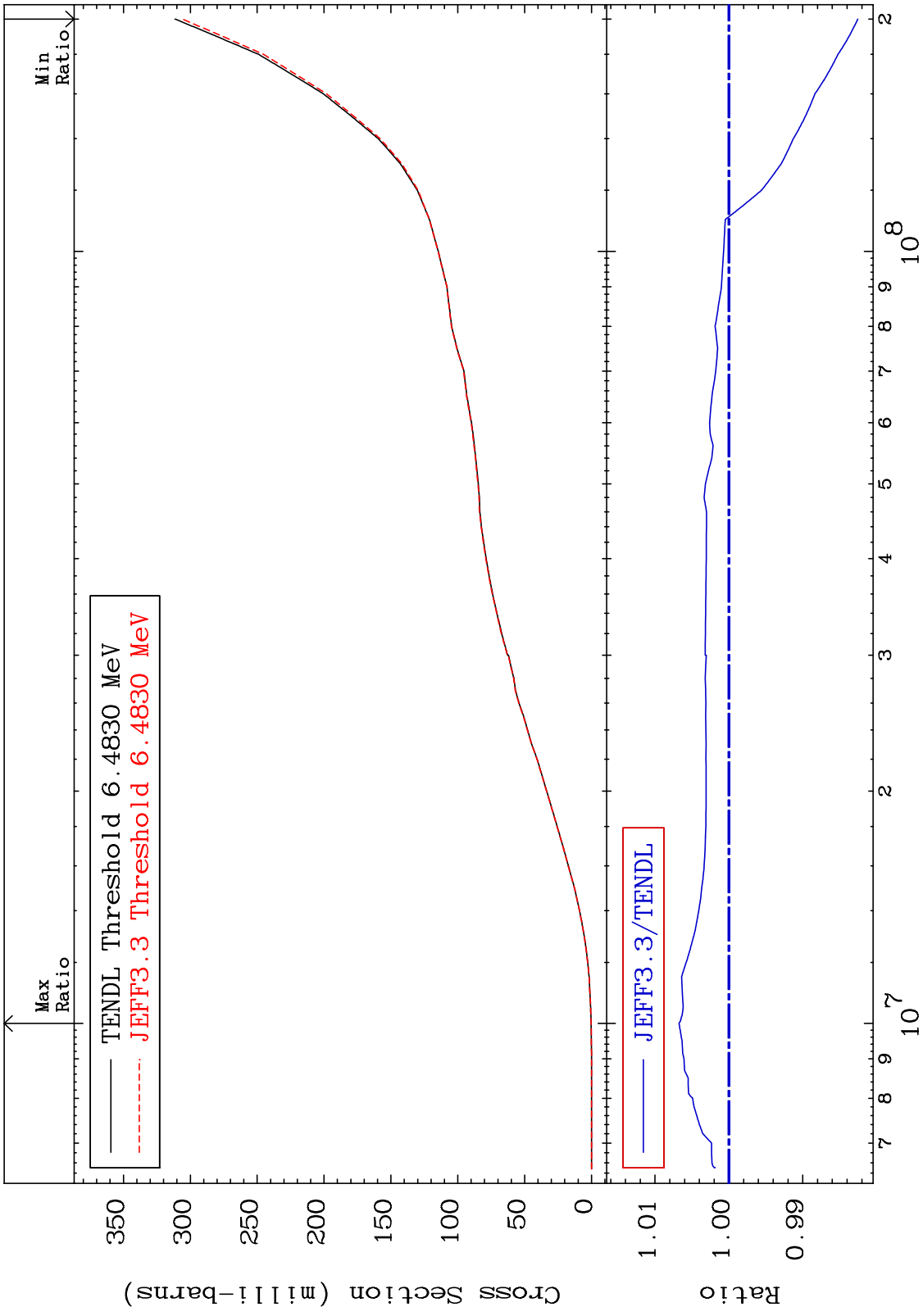
MAT 2828

Hydrogen Production  
Cross Section

28-Ni-59  
-95.69 To 9999. %

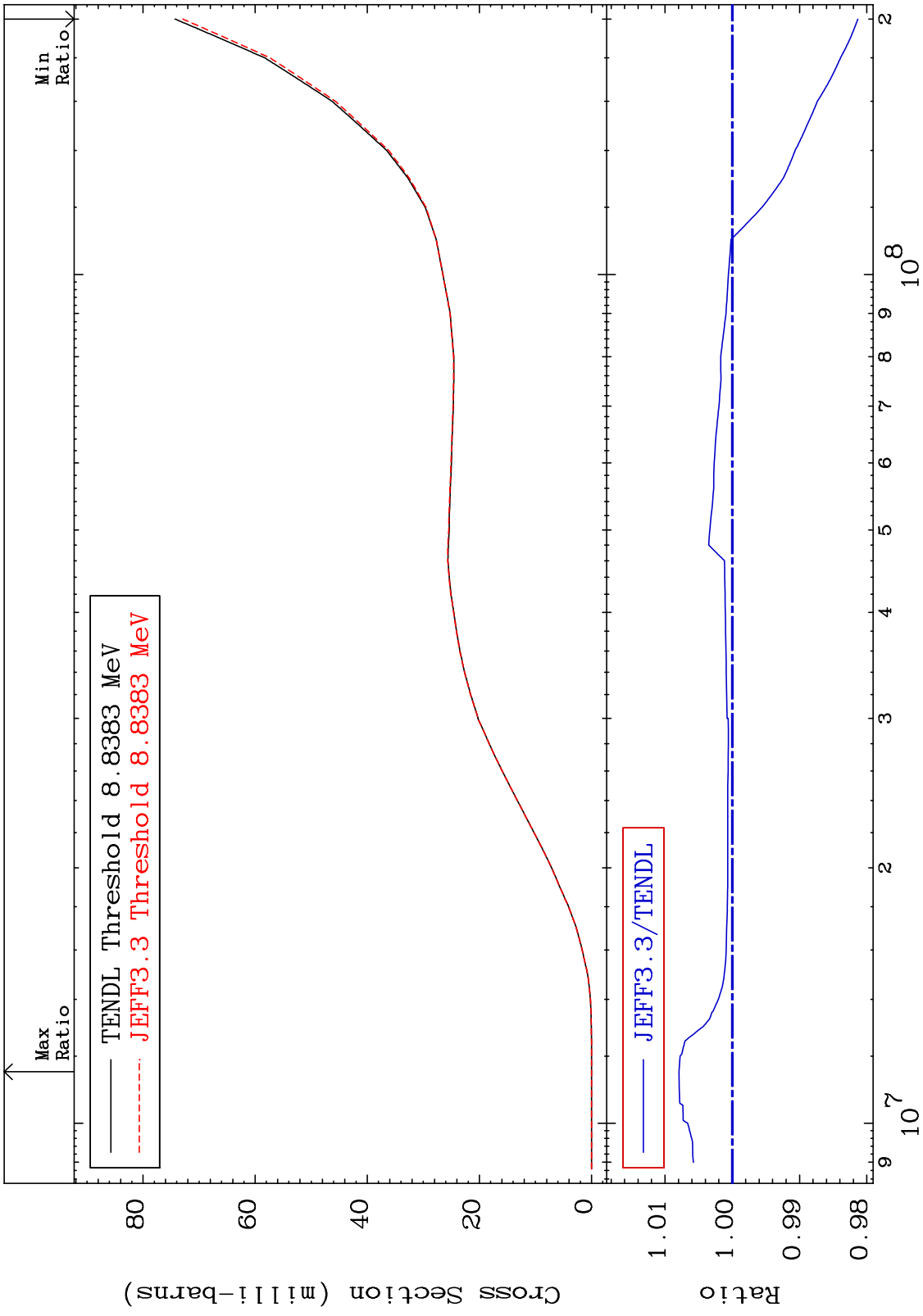


MAT 2828 Deuterium Production Cross Section 28-Ni-59 -1.746 To 0.675 %



62 28-Ni-59

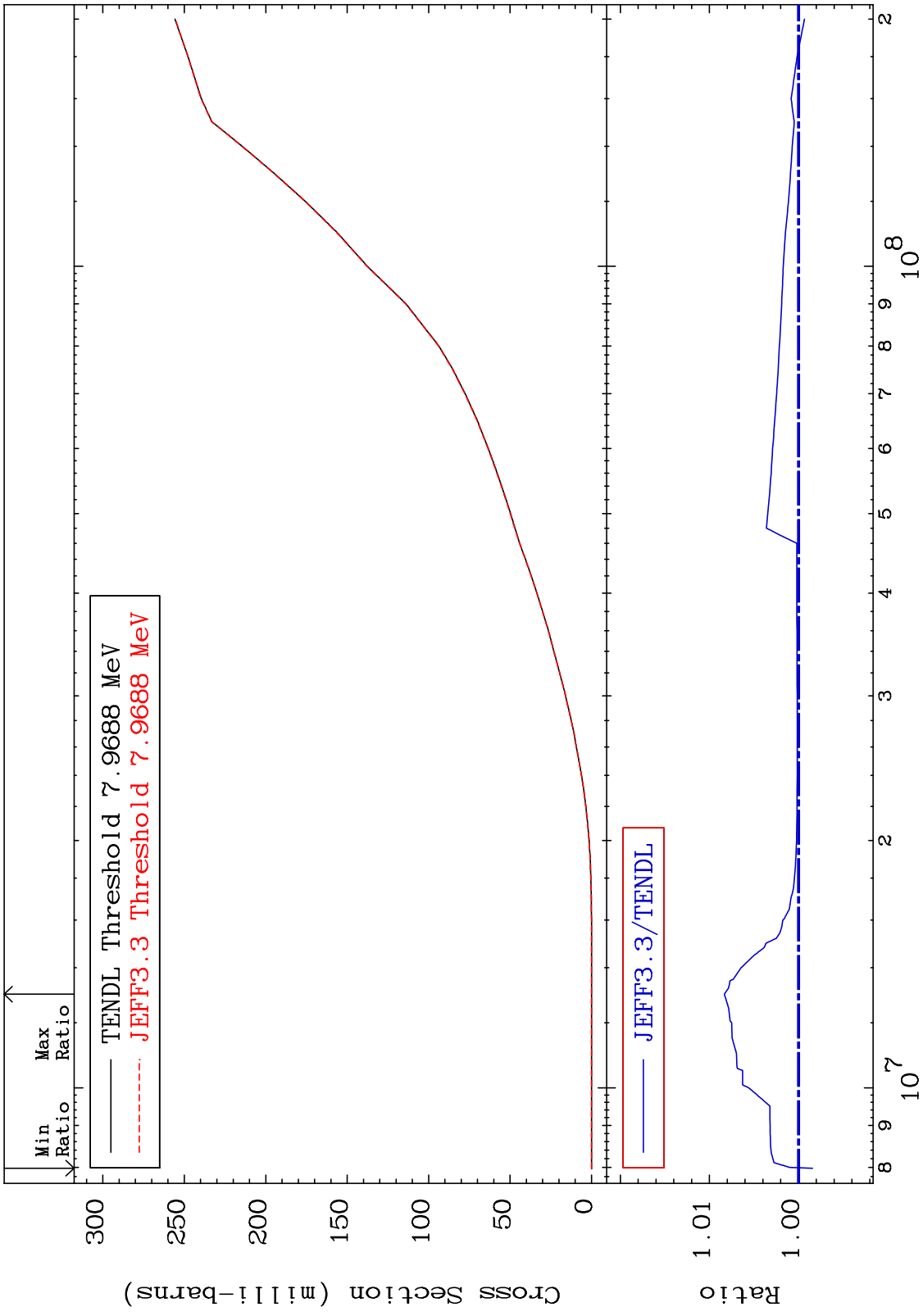
MAT 2828 Tritium Production Cross Section 28-Ni-59 -1.866 To 0.791 %



63 28-Ni-59



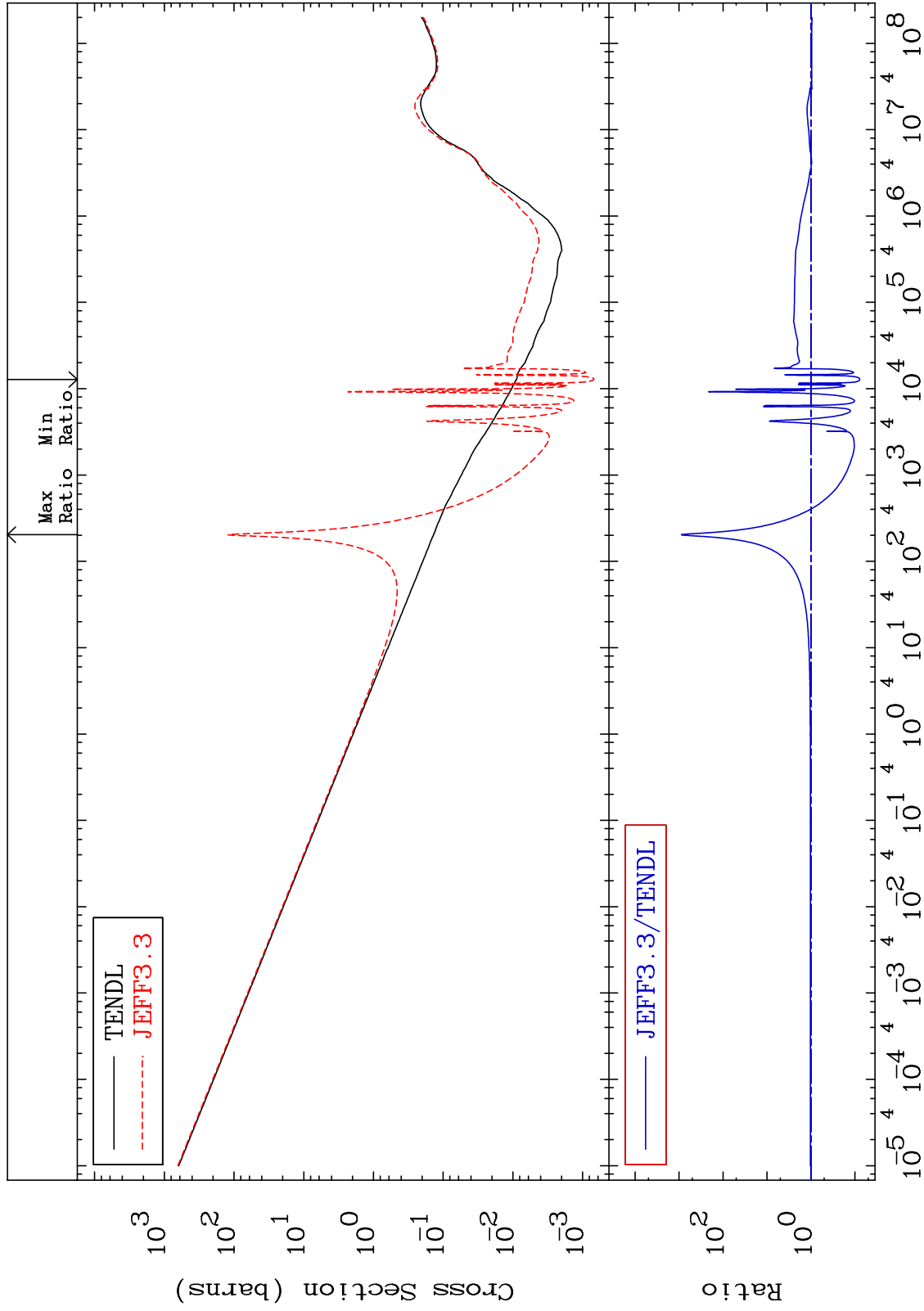
MAT 2828 He-3 Production Cross Section 28-Ni-59 -0.157 To 0.832 %



MAT 2828

He-4 Production  
Cross Section

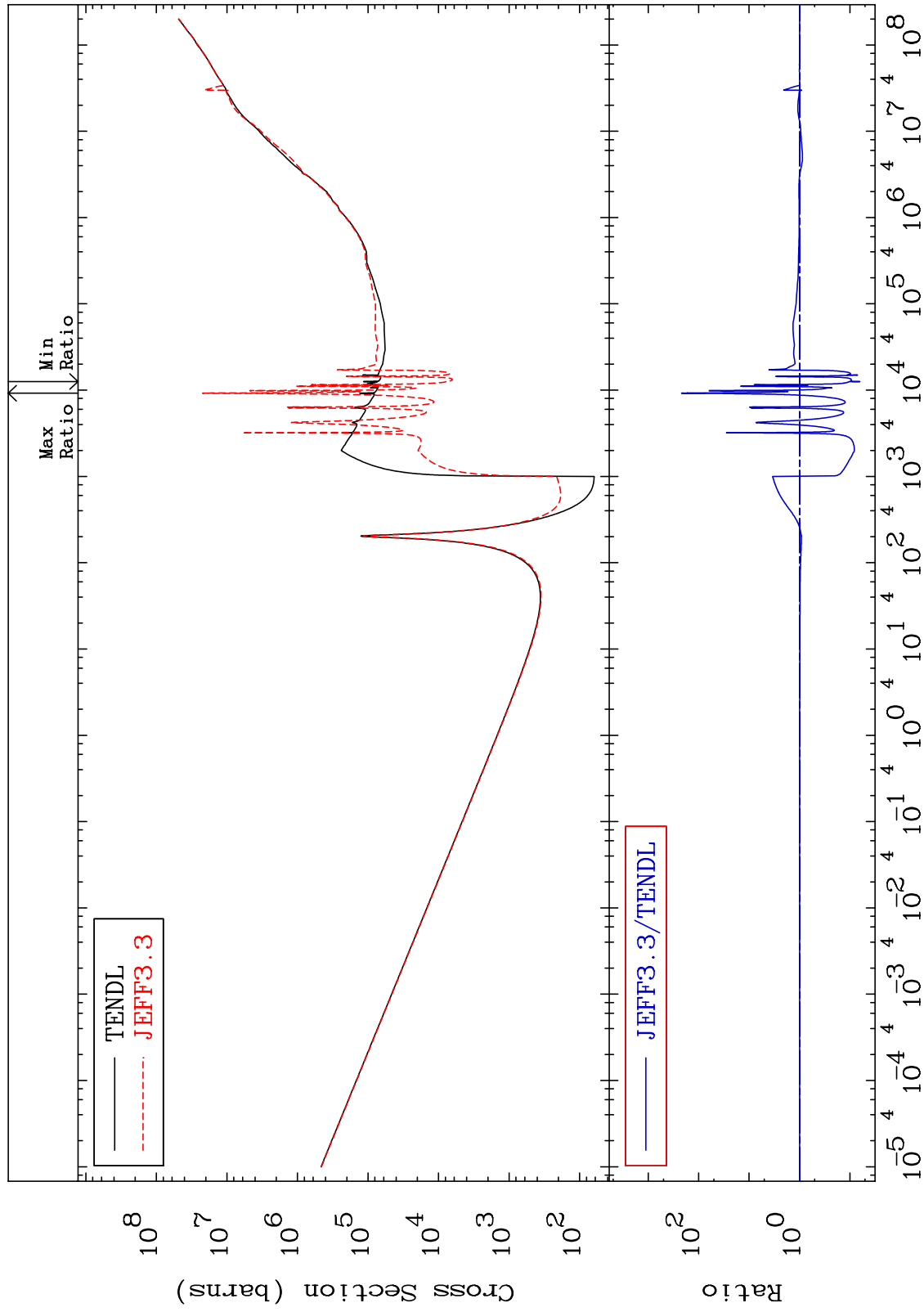
28-Ni-59  
-92.23 To 9999. %



MAT 2828

Kerma total (eV-barns)  
Cross Section

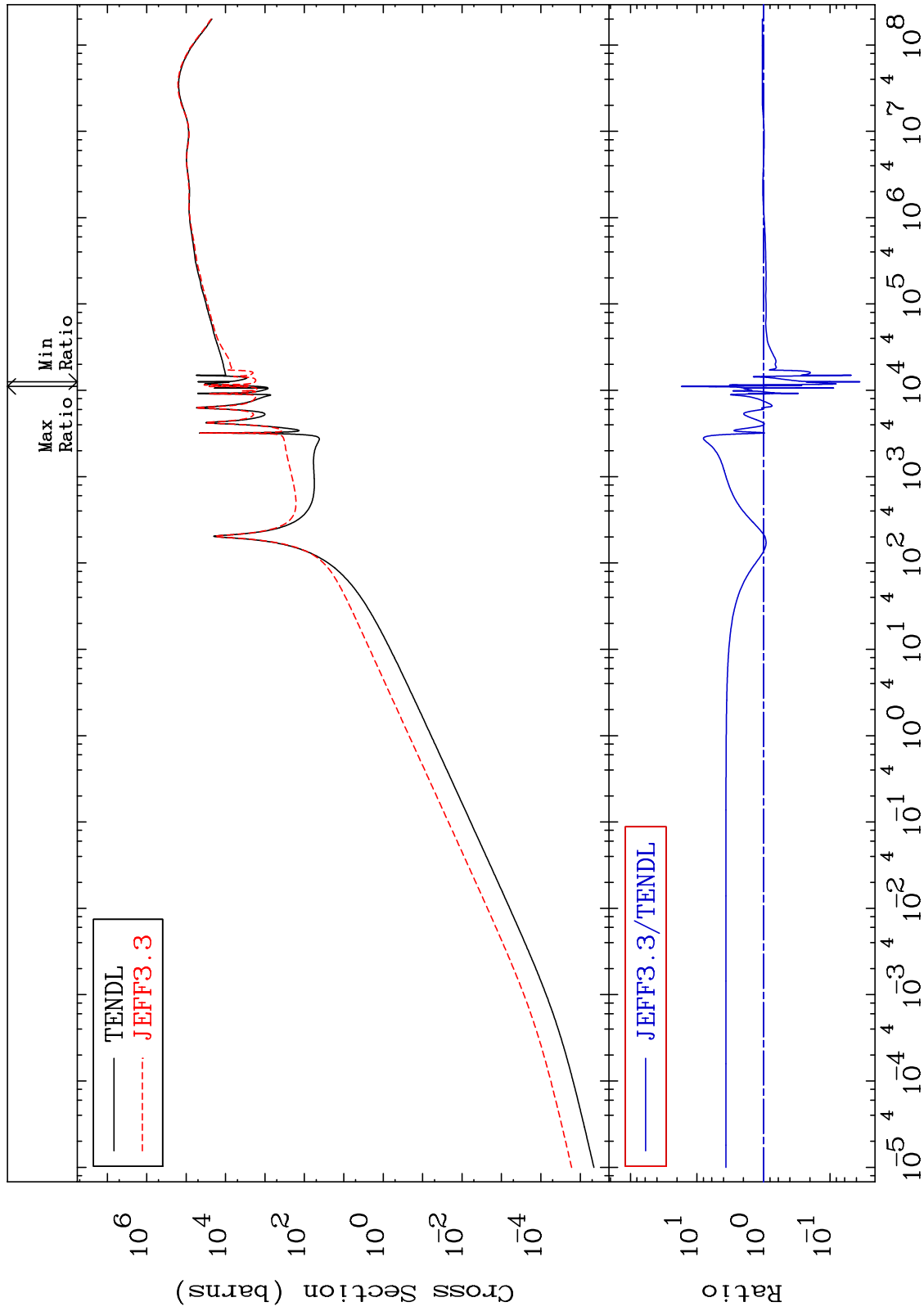
28-Ni-59  
-93.64 To 9999. %



MAT 2828

Kerma elastic  
Cross Section

28-Ni-59  
-96.44 To 1626. %

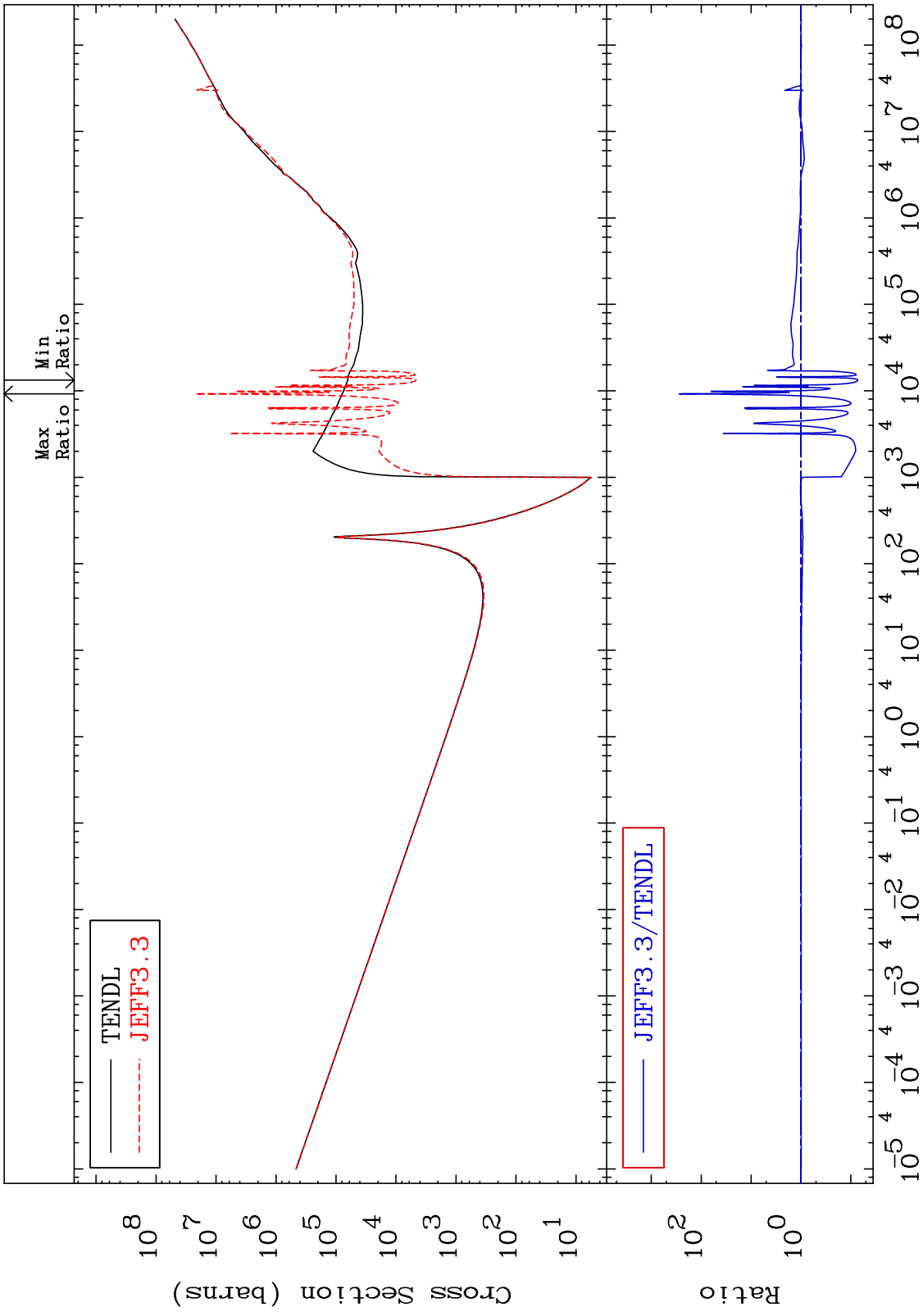


67

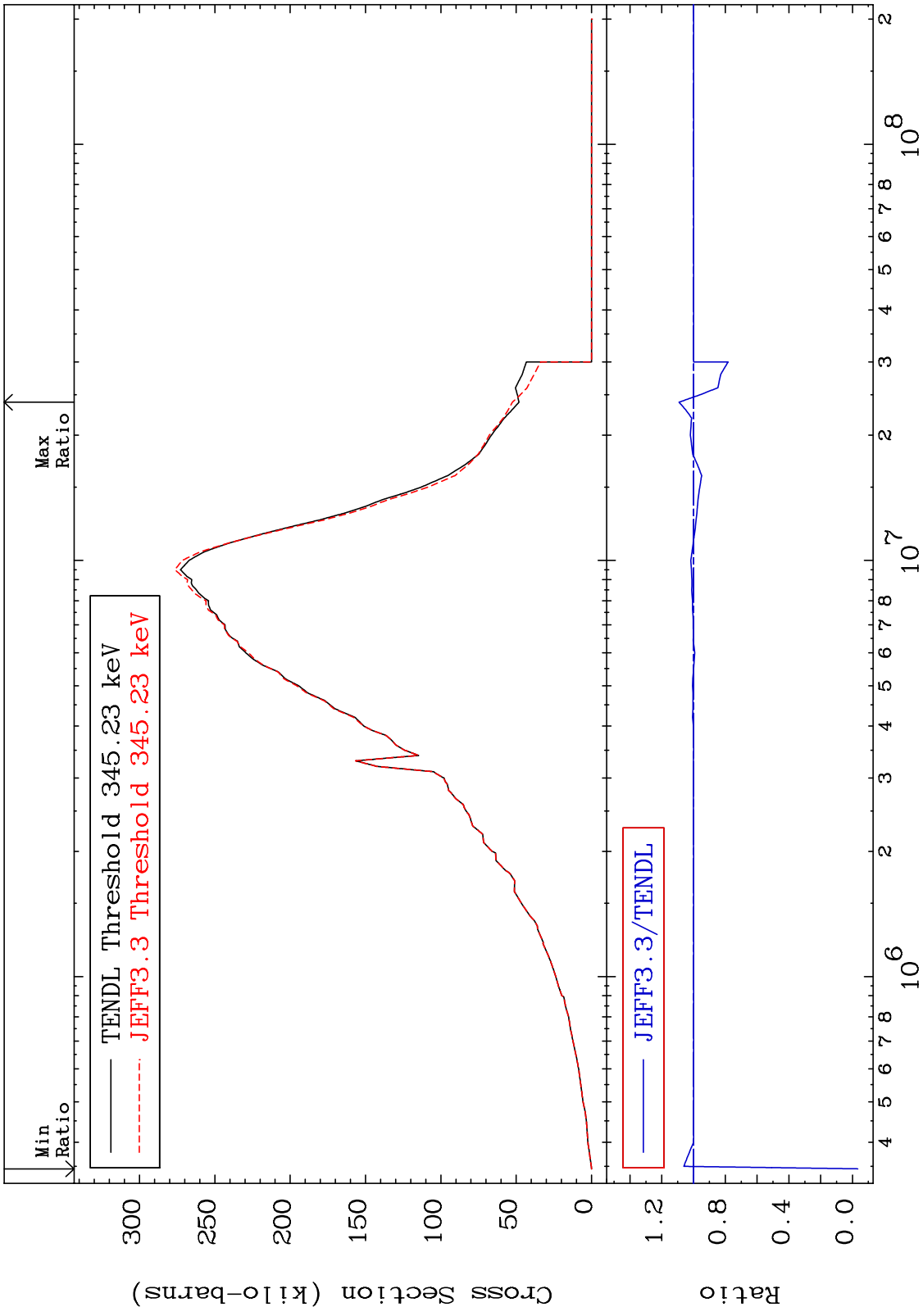
Incident Energy (eV)

28-Ni-59

MAT 2828      Kerma non-elastic (all but mt2)      28-Ni-59  
 -92.75 To 9999. %  
 Cross Section



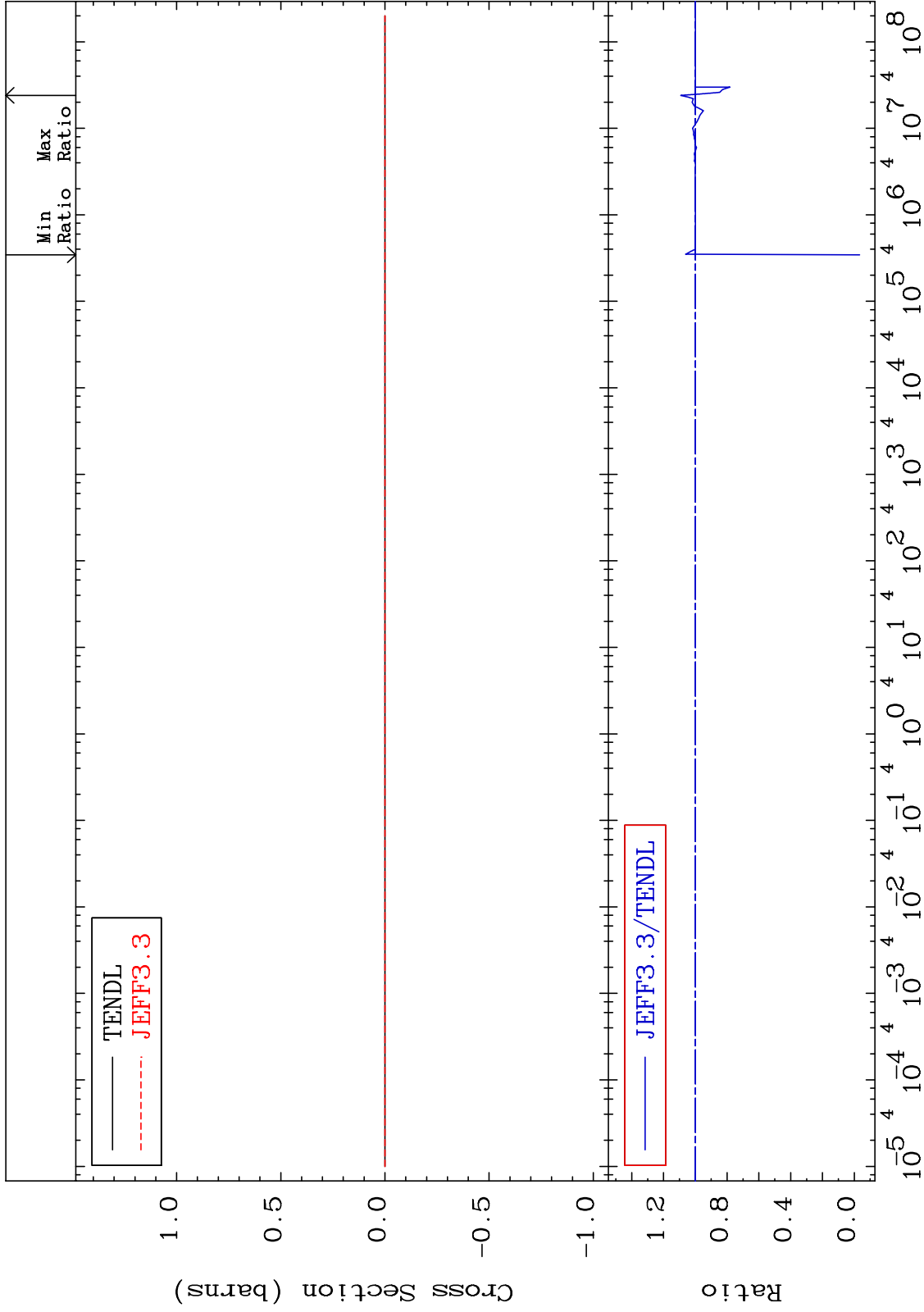
MAT 2828      Kerma inelastic (mt51-91)      28-Ni-59  
 -103.4 To 9.122 %



MAT 2828

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

28-Ni-59  
-103.4 To 9.122 %

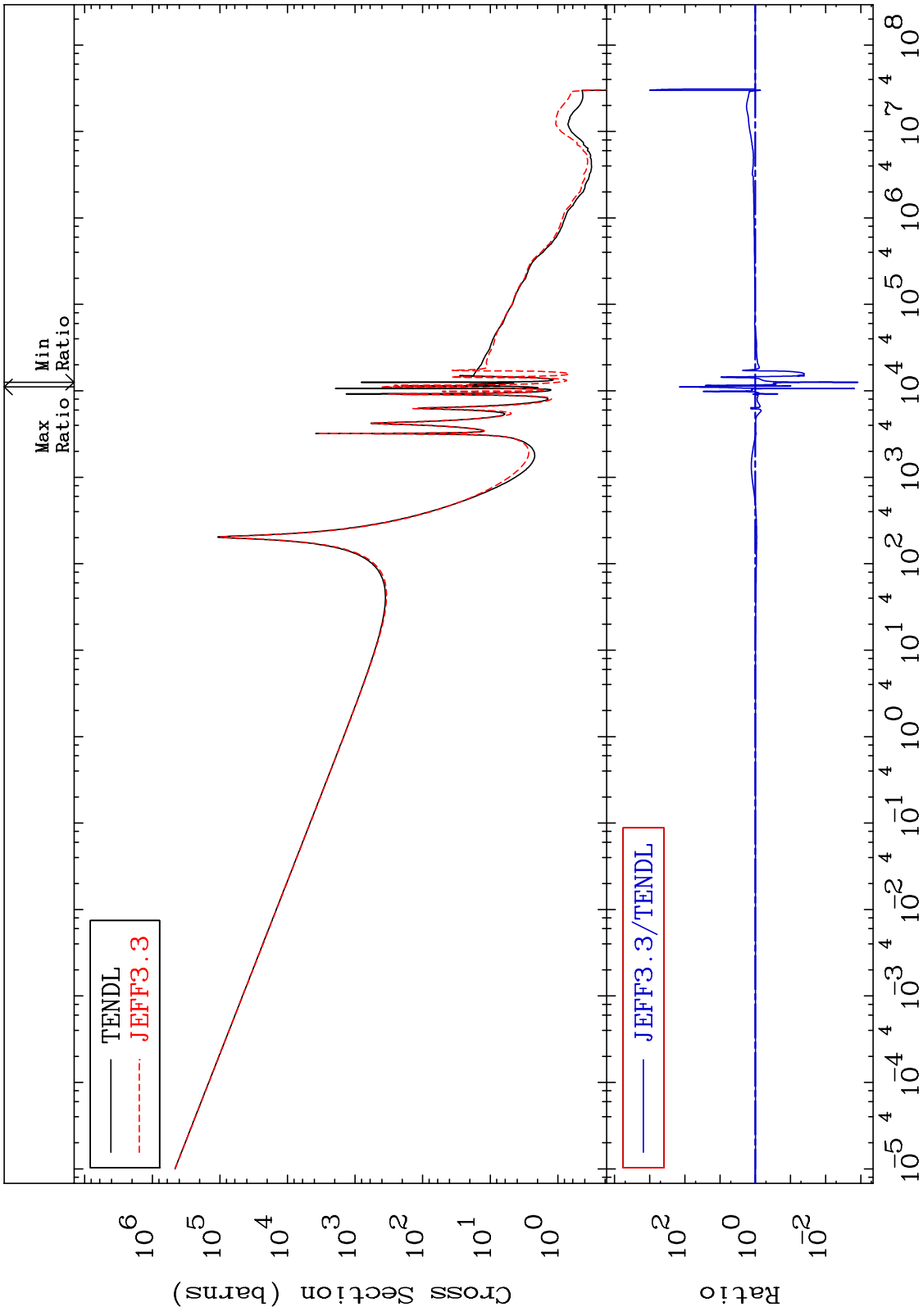


70

Incident Energy (eV)

28-Ni-59

MAT 2828      Kerma capture (mt102)      28-Ni-59  
 Cross Section      -99.88 To 9999. %



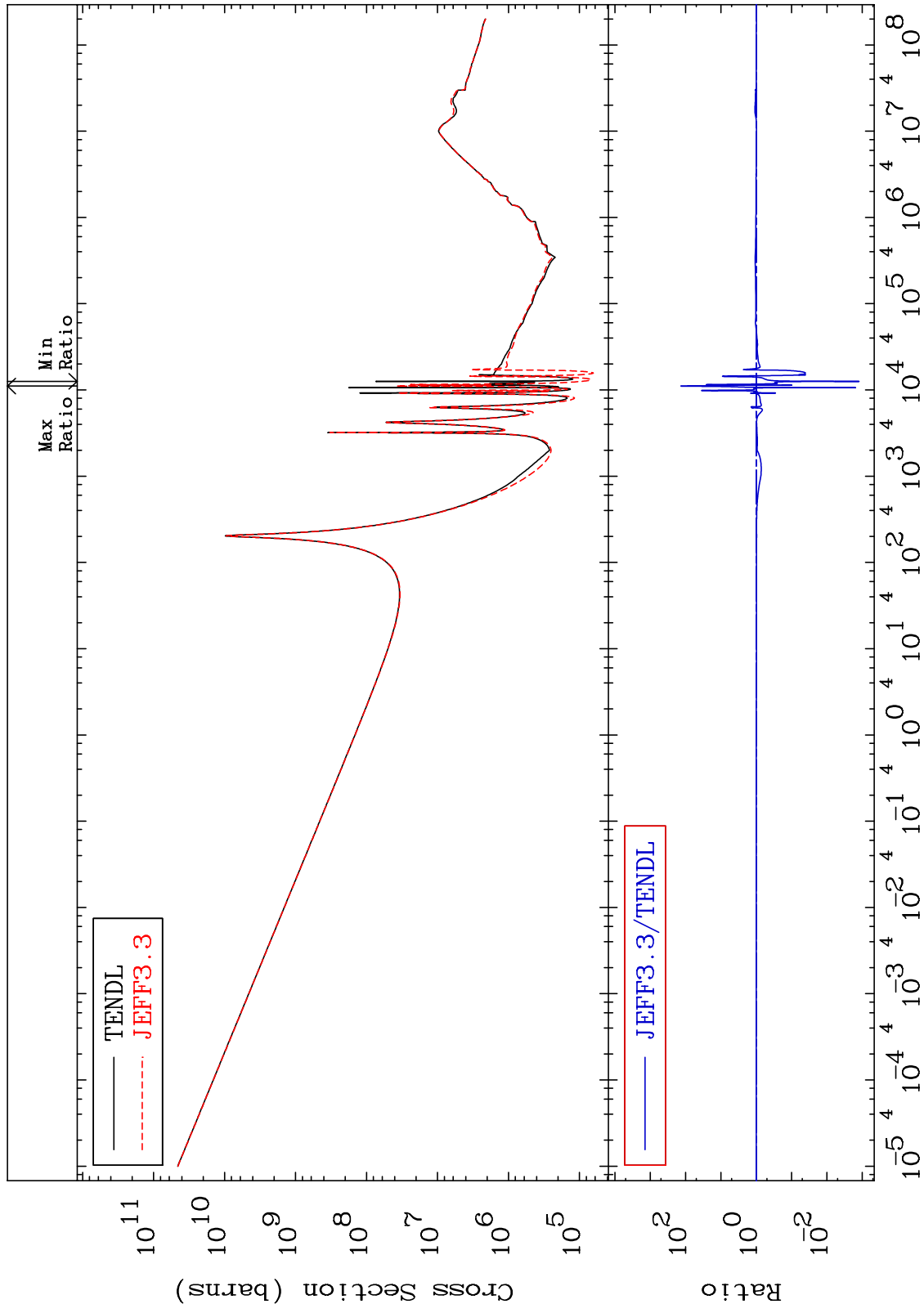
71      Incident Energy (eV)      28-Ni-59



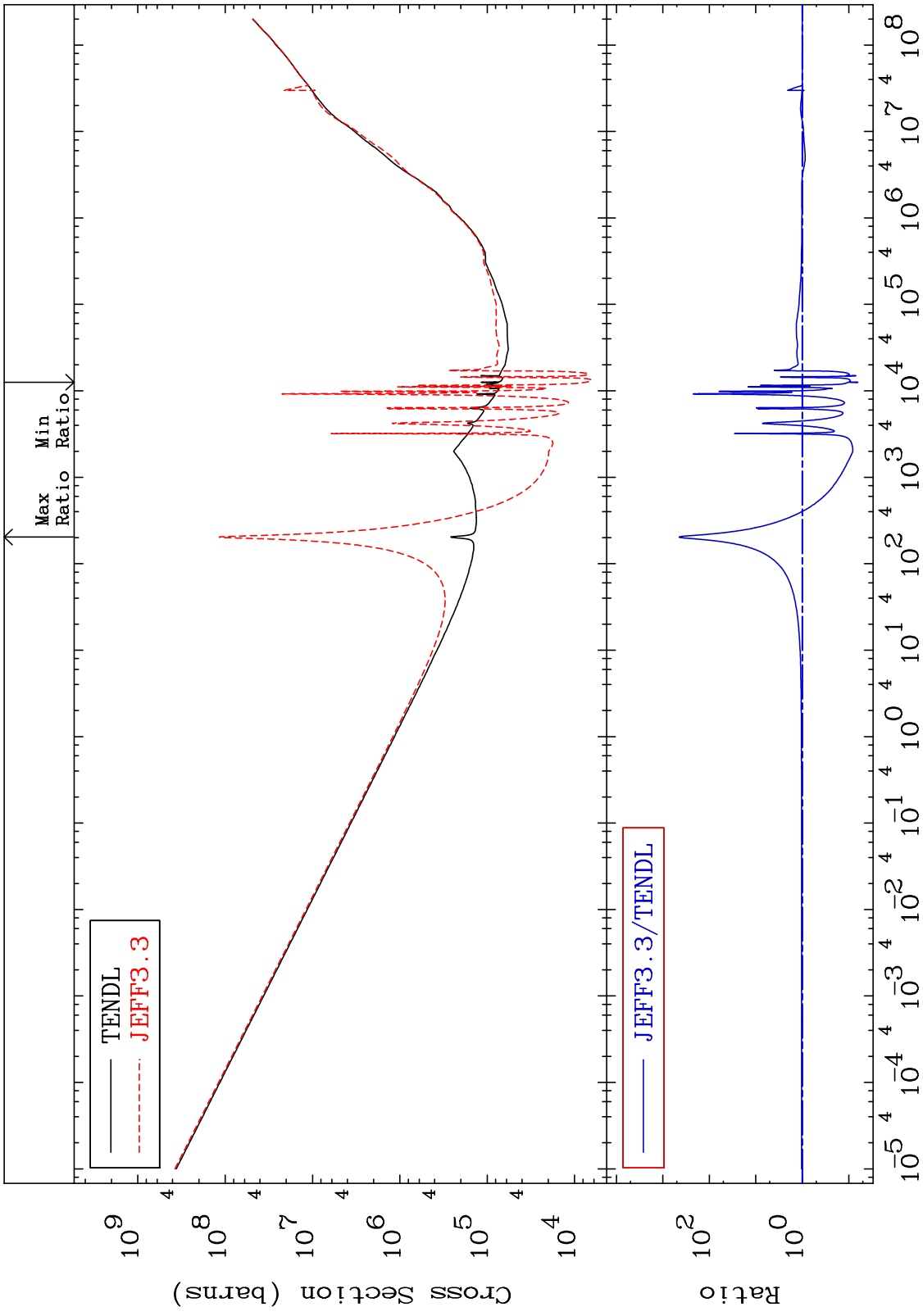
MAT 2828

Total photon (eV-barns)  
Cross Section

28-Ni-59  
-99.88 To 9999. %



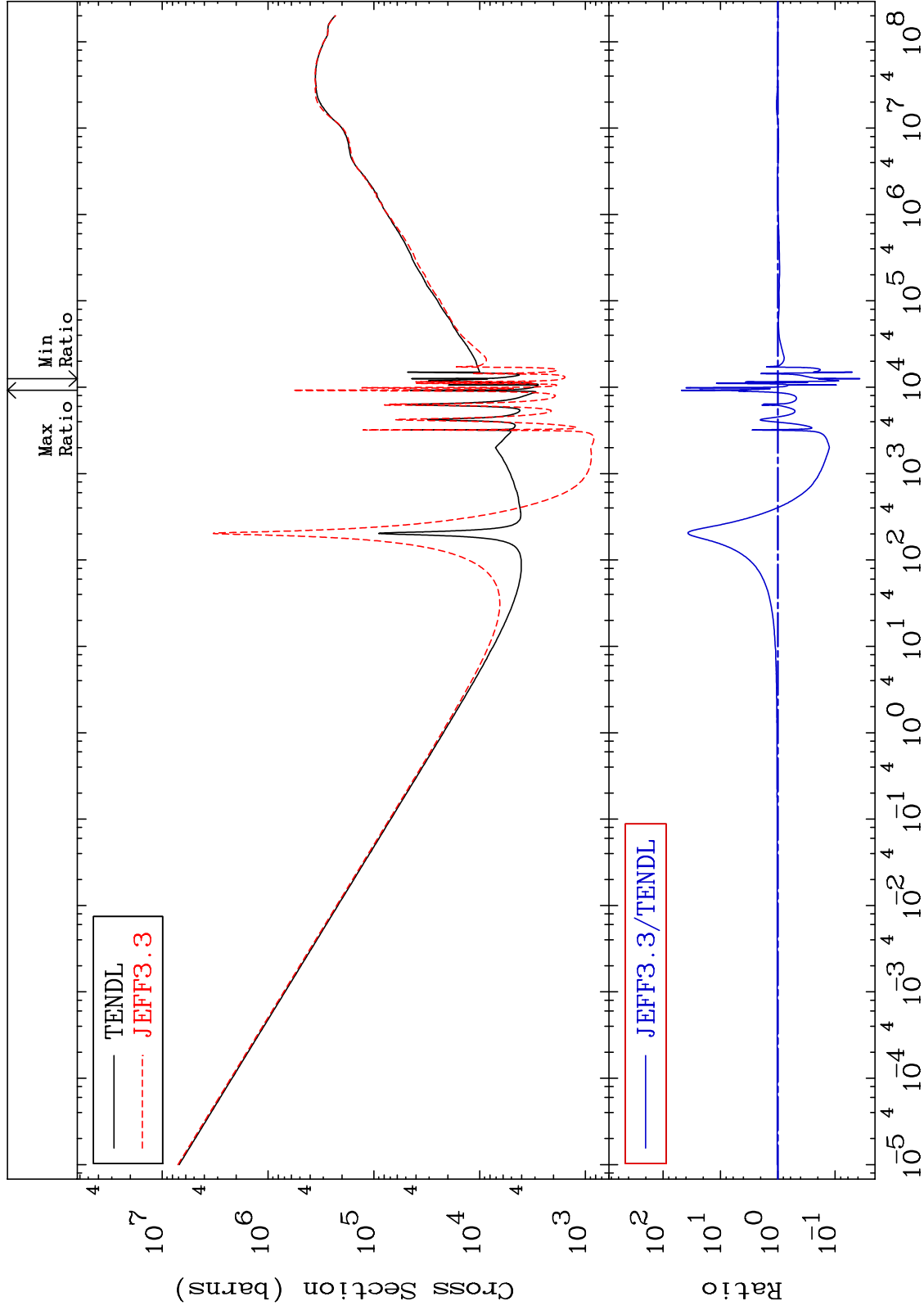
MAT 2828 Total kinematic kerma (high limit) 28-Ni-59  
Cross Section -93.63 To 9999. %



MAT 2828

Dpa total (eV-barns)  
Cross Section

28-Ni-59  
-96.28 To 4737. %



74

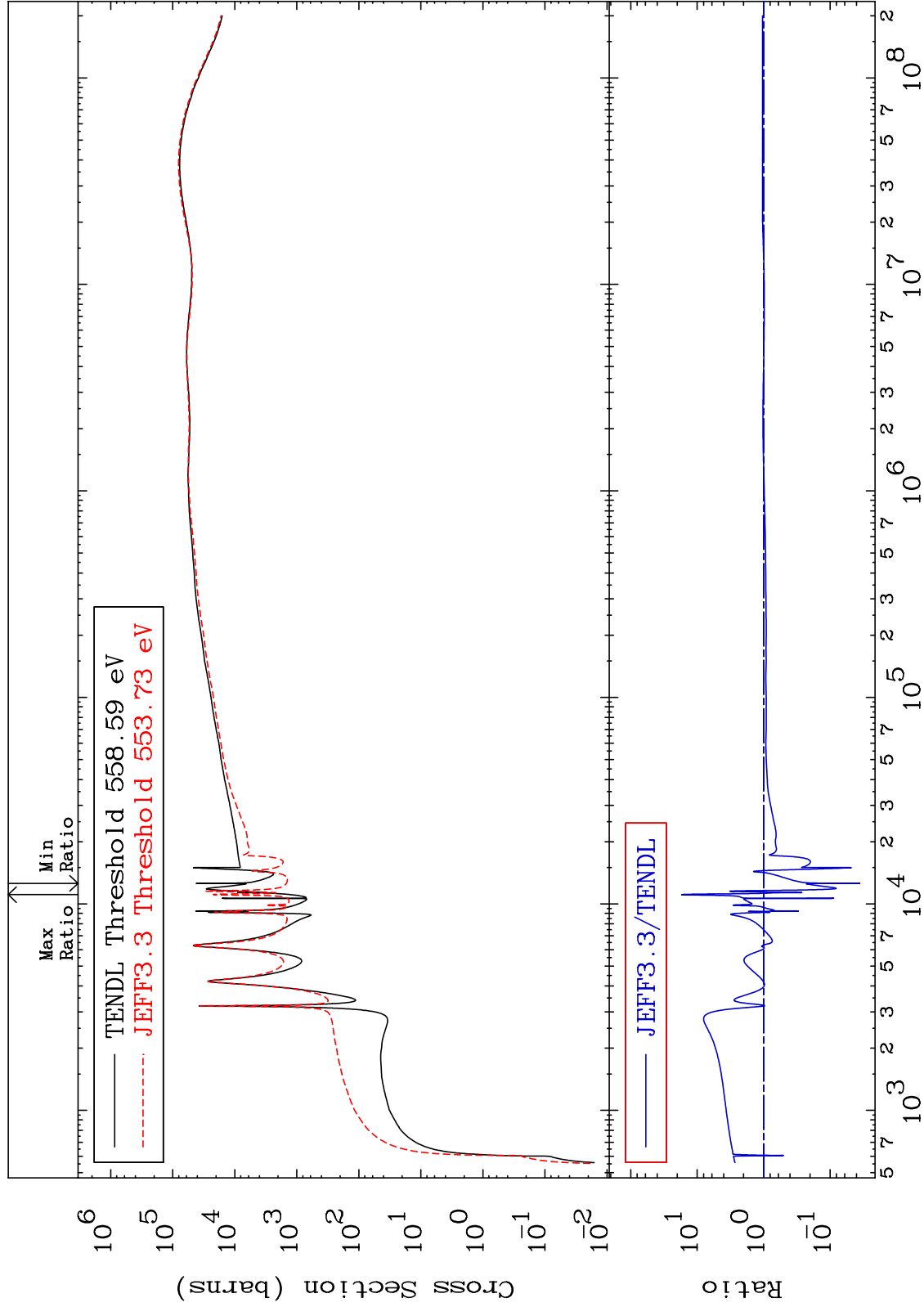
Incident Energy (eV)

28-Ni-59

MAT 2828

Dpa elastic (mt2)  
Cross Section

28-Ni-59  
-96.44 To 1626. %

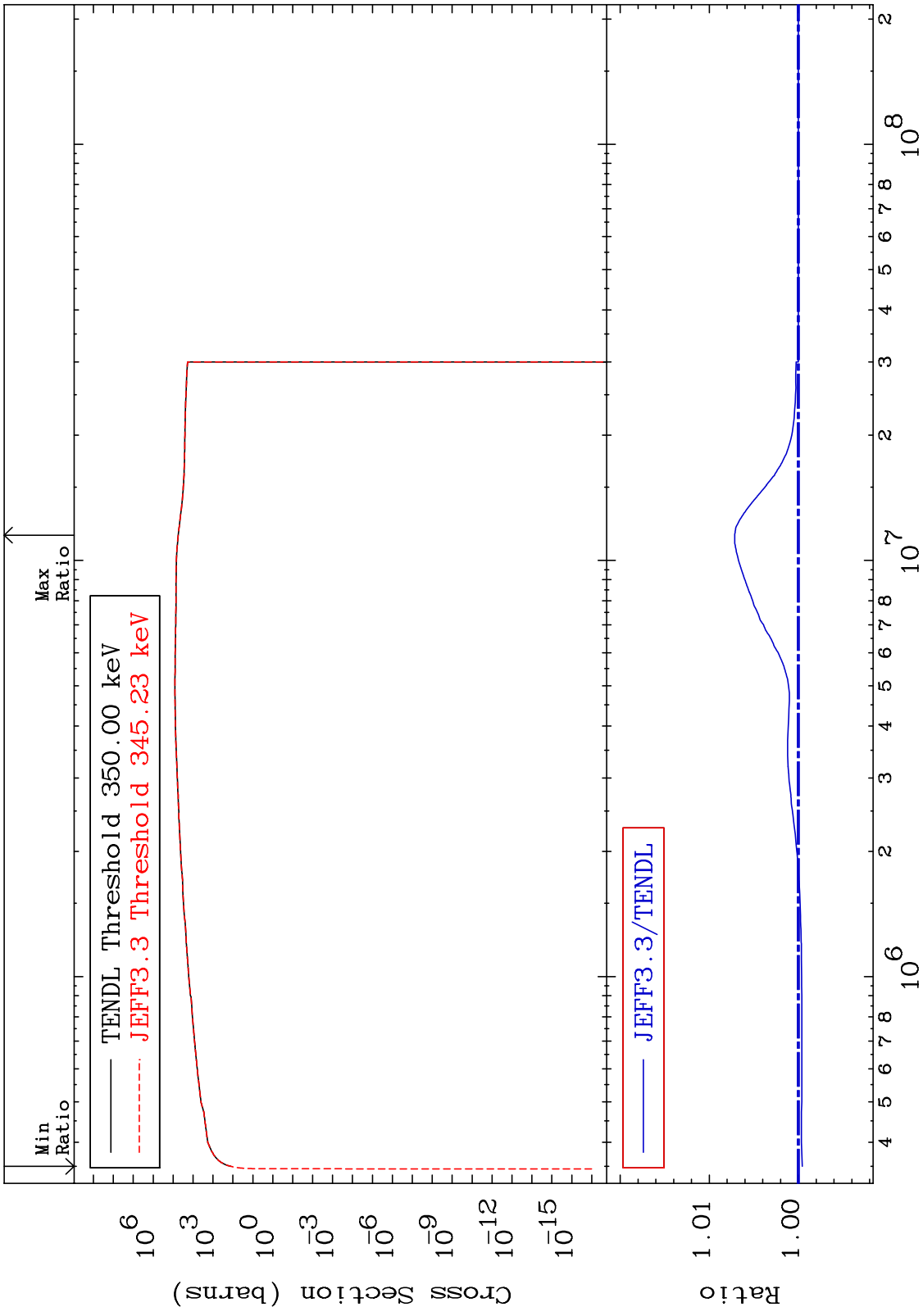


75

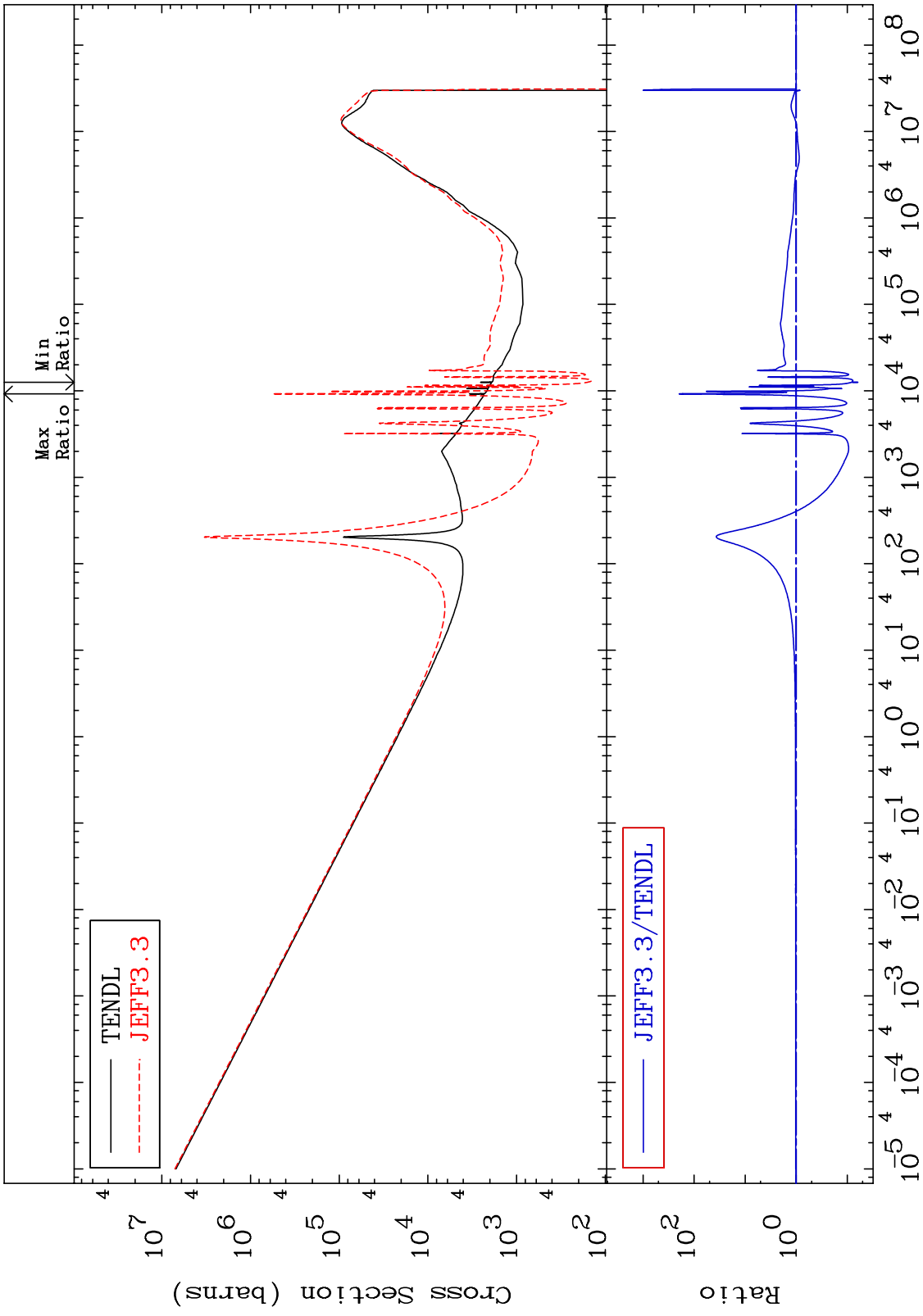
Incident Energy (eV)

28-Ni-59

MAT 2828      Dpa inelastic (mt51-91)      28-Ni-59  
 Cross Section      -0.043 To 0.716 %

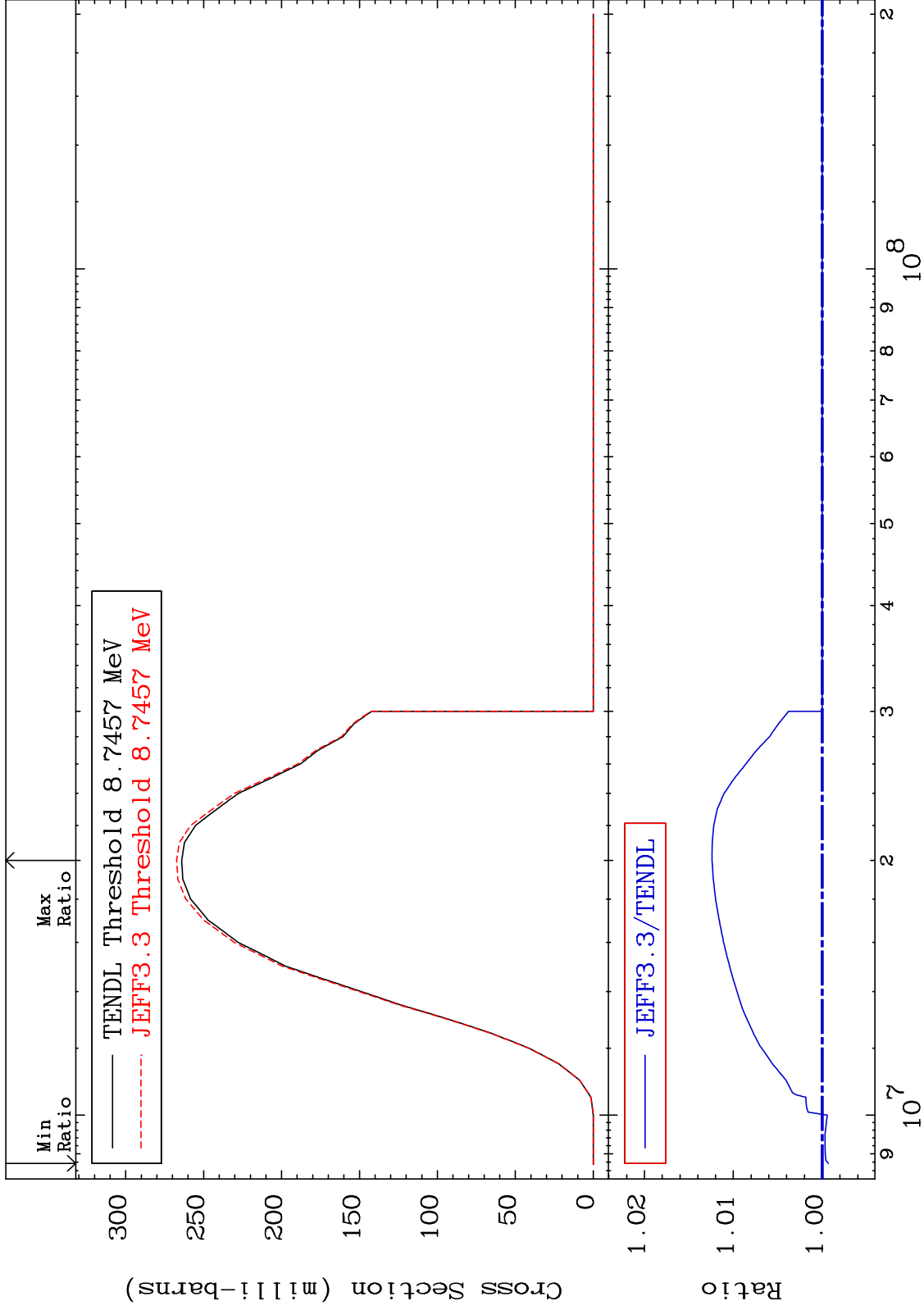


MAT 2828      Dpa disappearance (mt102 -120)      28-Ni-59  
 Cross Section      -93.80 To 9999. %



MAT 2828

(n,n') p:27-Co-58g 28-Ni-59  
Radionuclide Production Cross Section -0.070 To 1.239 %



78

Incident Energy (eV)

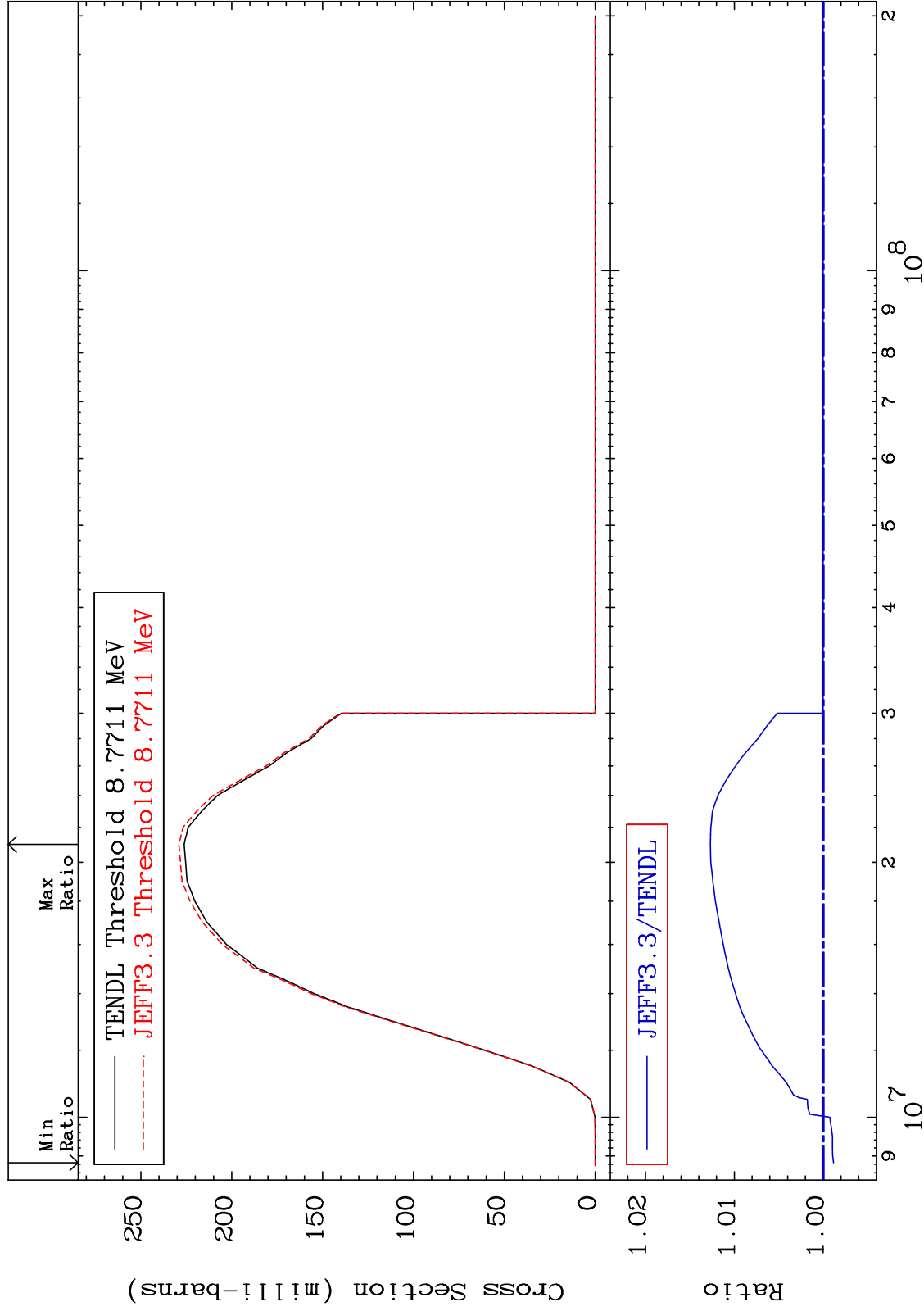
28-Ni-59

MAT 2828

(n, n') p:27-Co-58m1

28-Ni-59

Radionuclide Production Cross Section -0.118 To 1.269 %



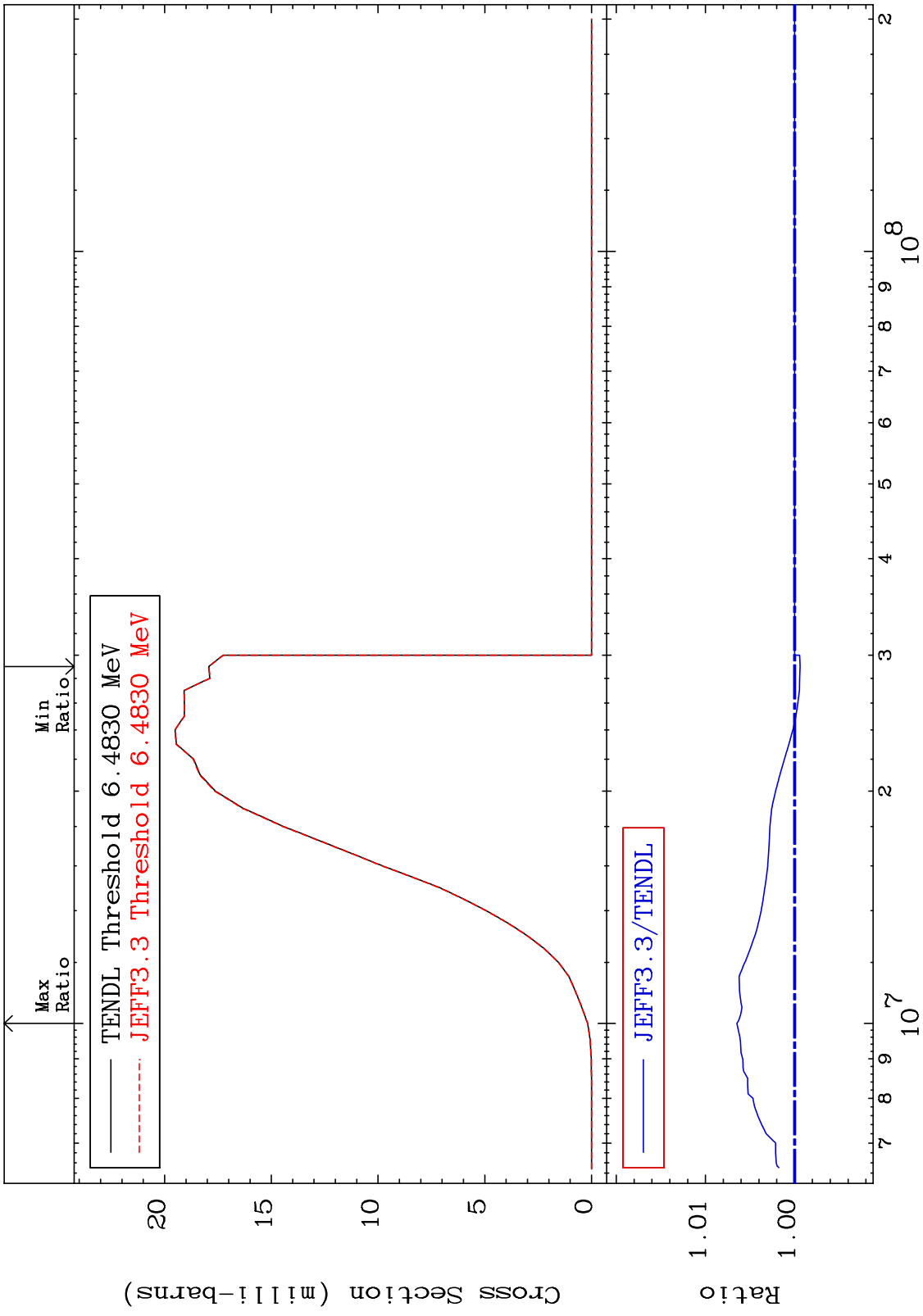
79

Incident Energy (eV)

28-Ni-59



MAT 2828 (n,d):27-Co-58g 28-Ni-59  
Radionuclide Production Cross Section -0.061 To 0.648 %



80 28-Ni-59

MAT 2828 (n,d):27-Co-58m1 28-Ni-59  
 Radionuclide Production Cross Section 0.000 To 0.730 %

