

Program Complot  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

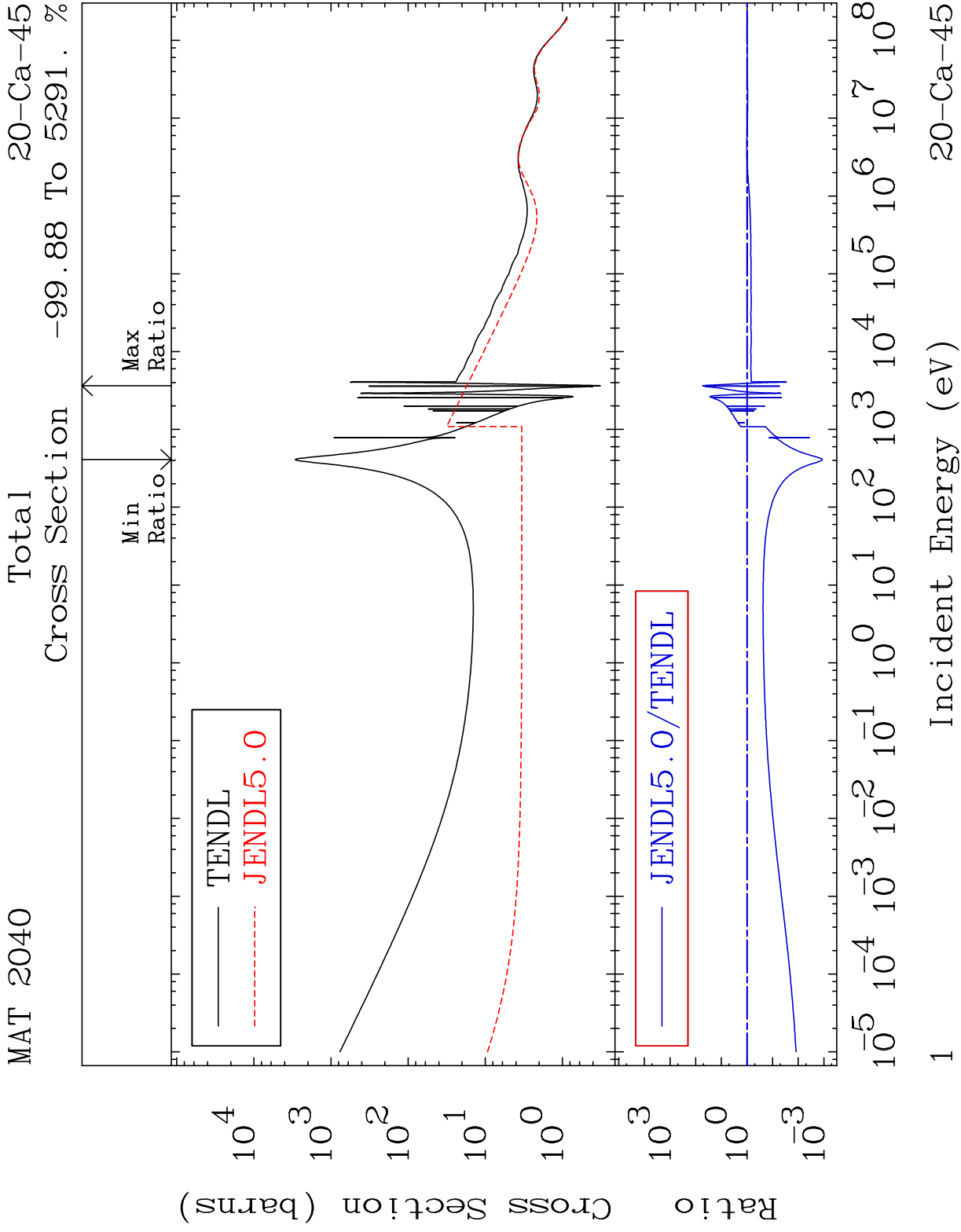
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1466 Hudson Way  
Livermore, CA 94550

U.S.A.

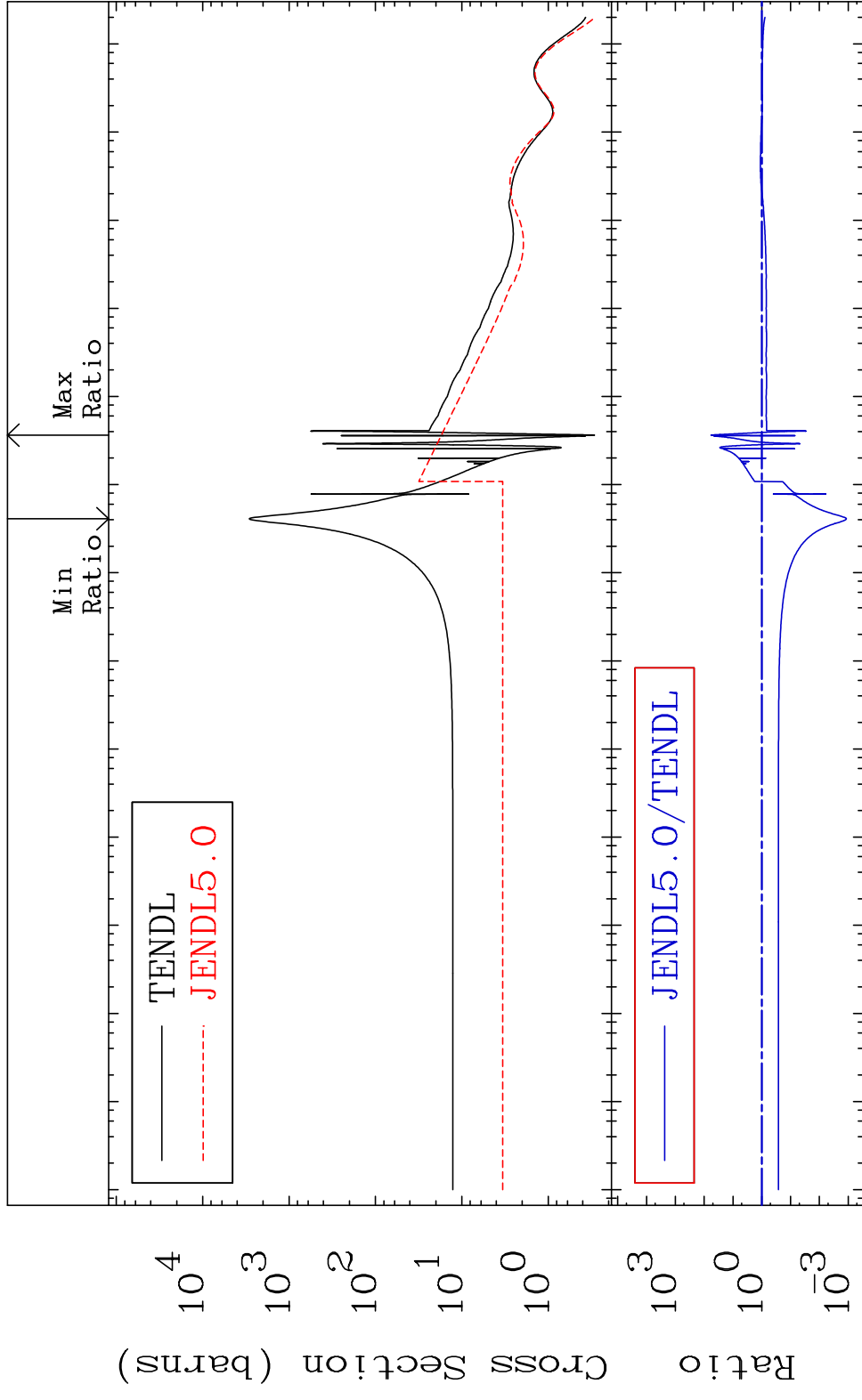
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E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

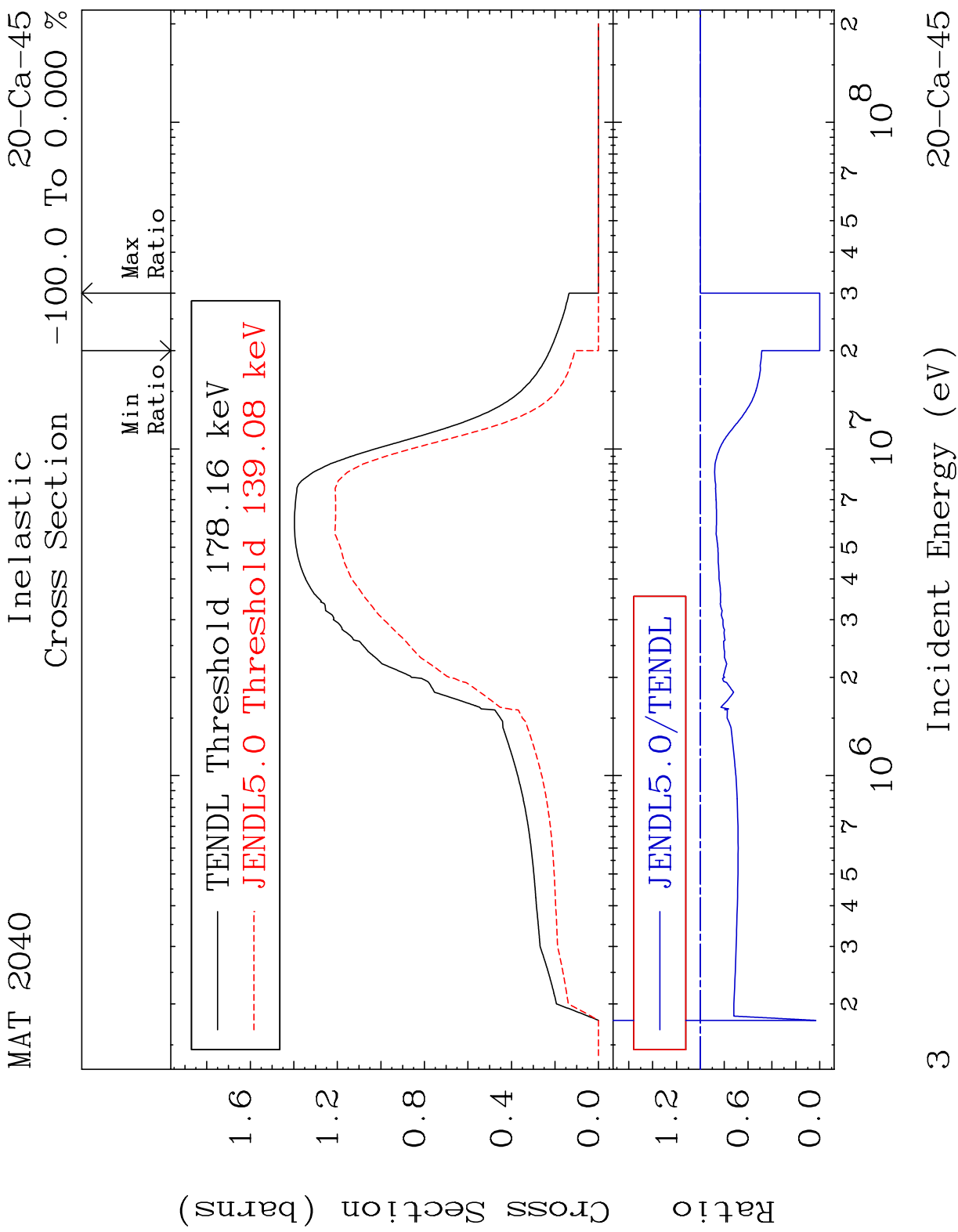
Press Mouse Button to Start



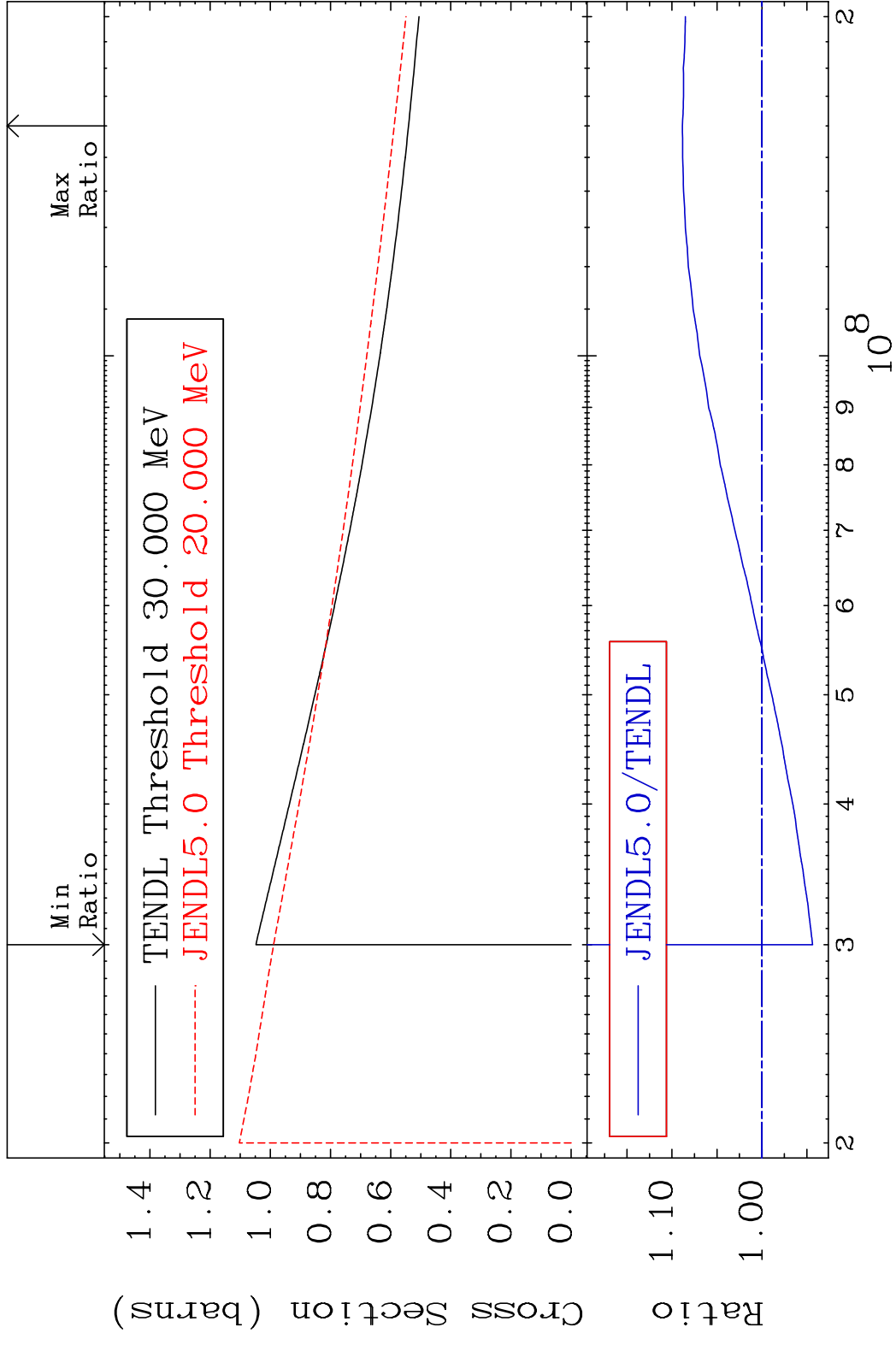
MAT 2040 Elastic Cross Section -99.88 To 5826. % 20-Ca-45



2 Incident Energy (eV) 20-Ca-45

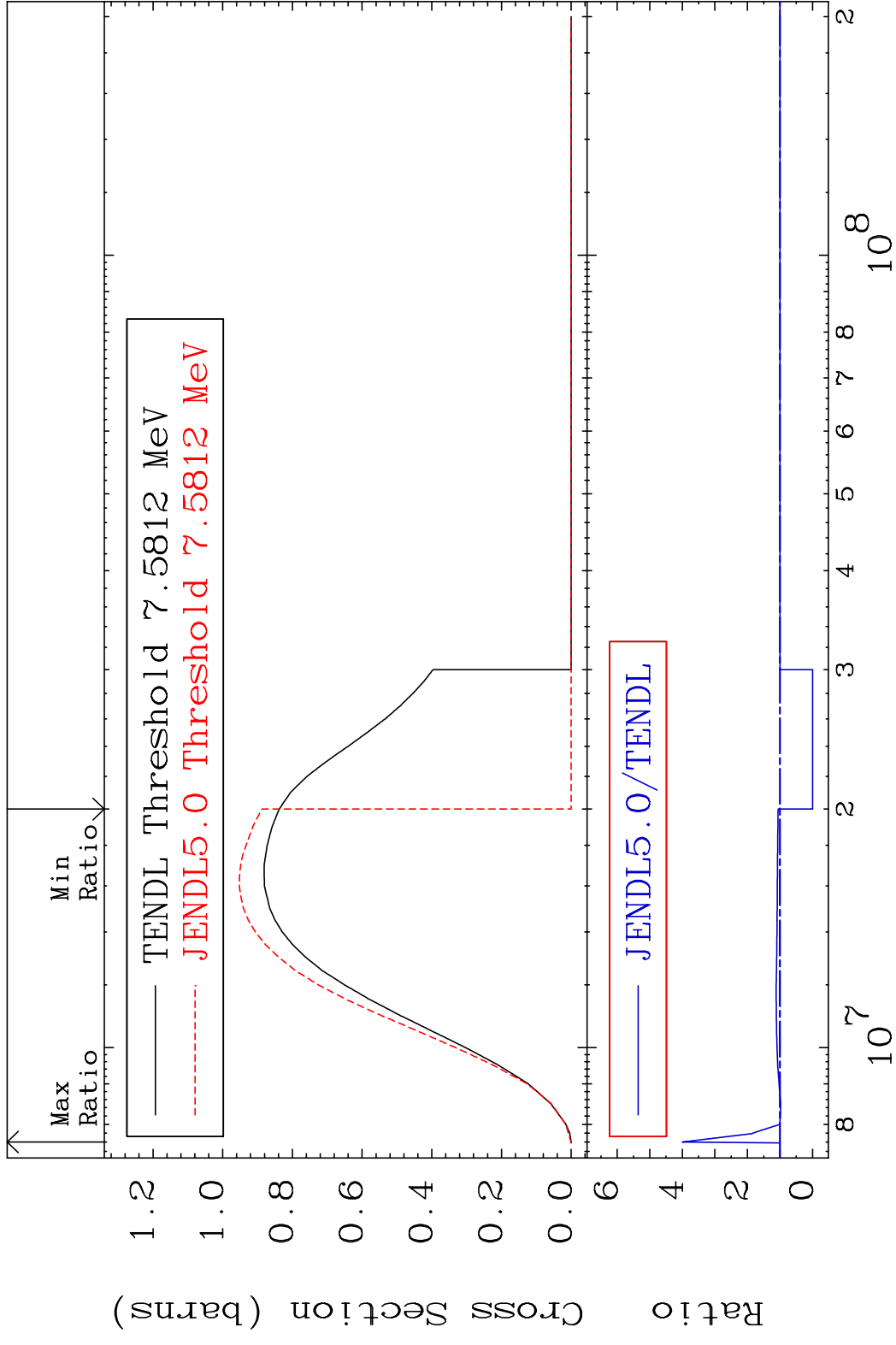


MAT 2040 (n, remainder) 20-Ca-45  
 Cross Section -5.632 To 8.847 %



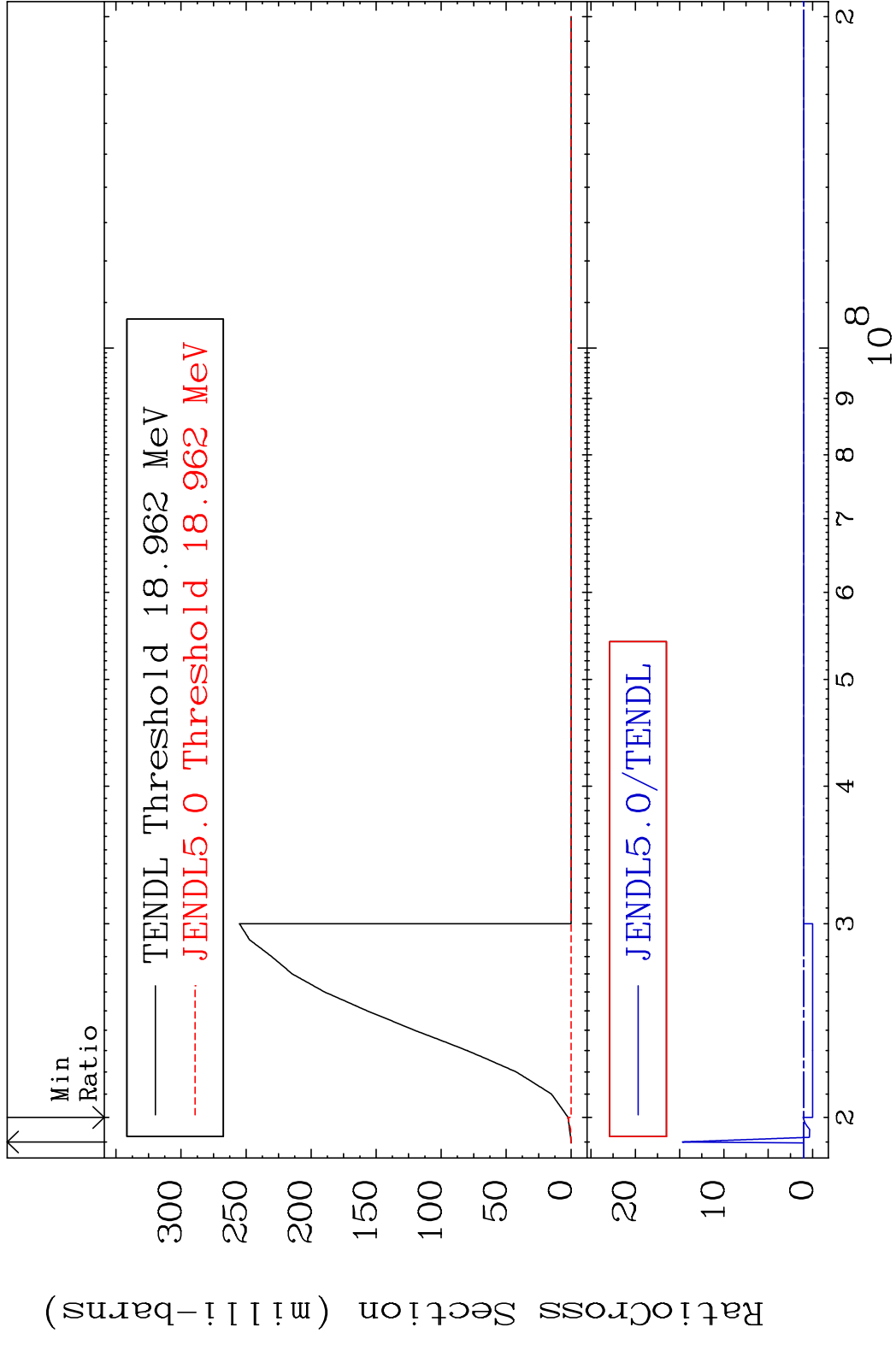
4 Incident Energy (eV) 20-Ca-45

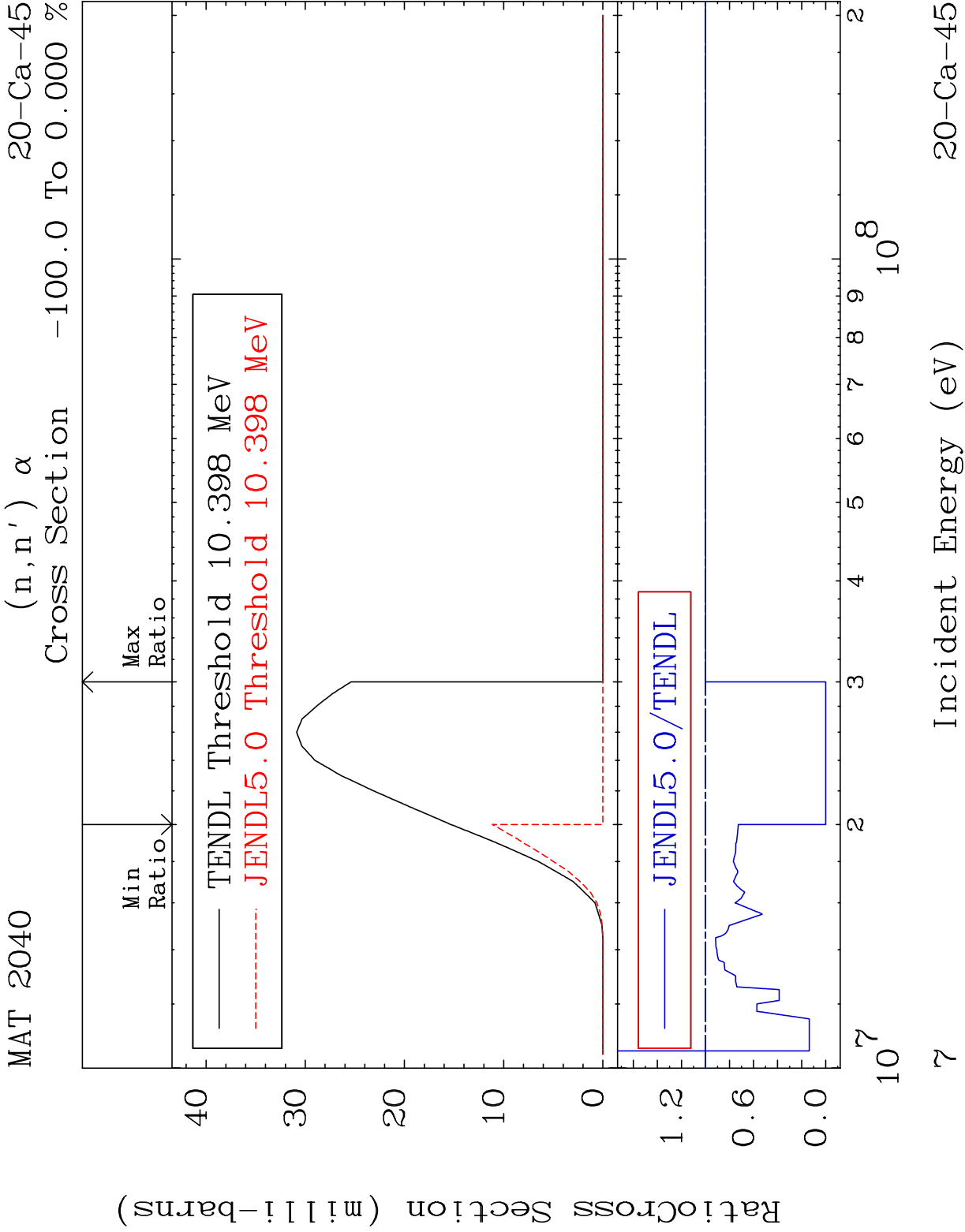
MAT 2040 (n,2n) 20-Ca-45  
 Cross Section -100.0 To 299.9 %



5 20-Ca-45

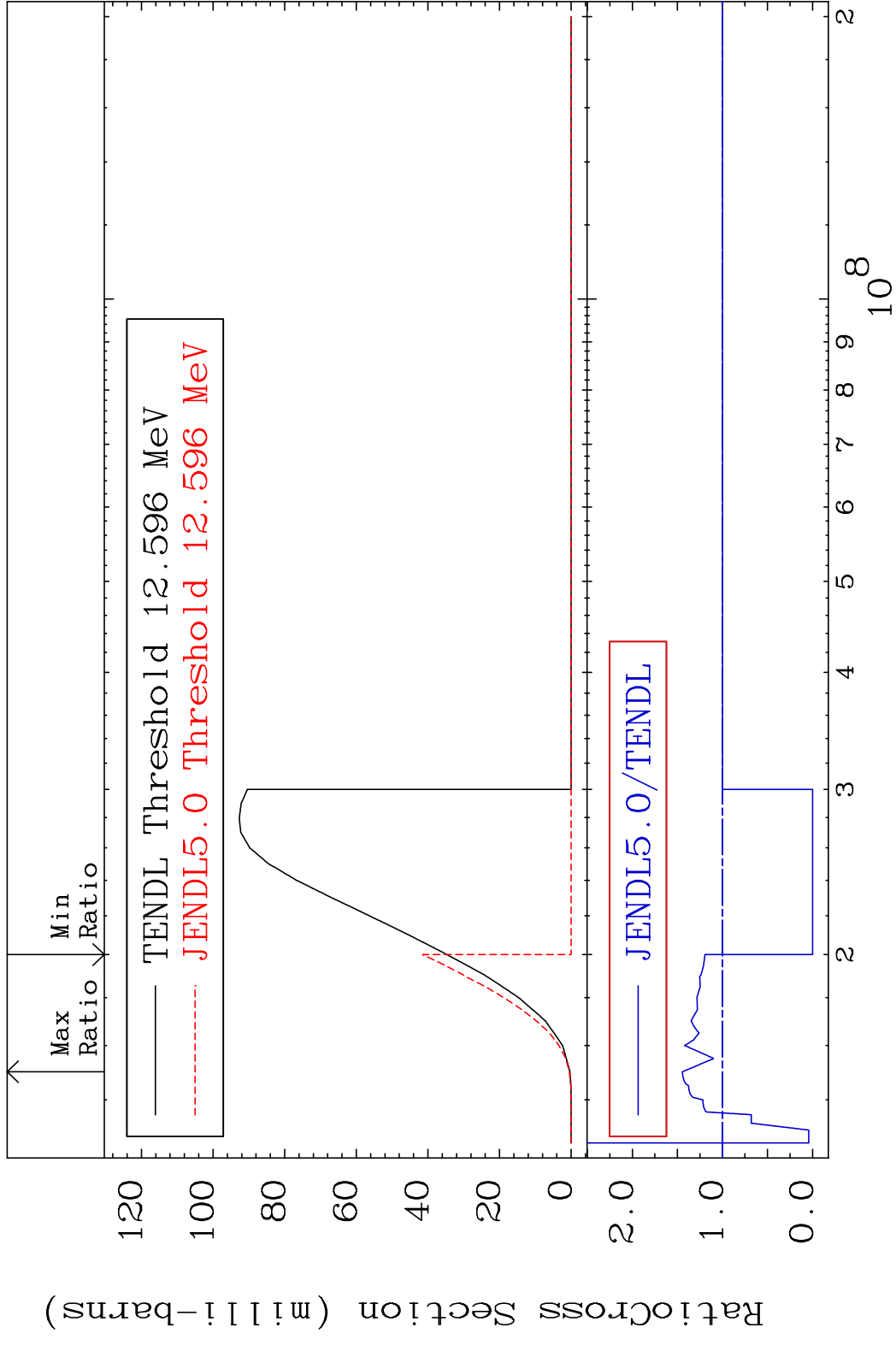
MAT 2040 (n,3n) 20-Ca-45  
 Cross Section -100.0 To 1369. %





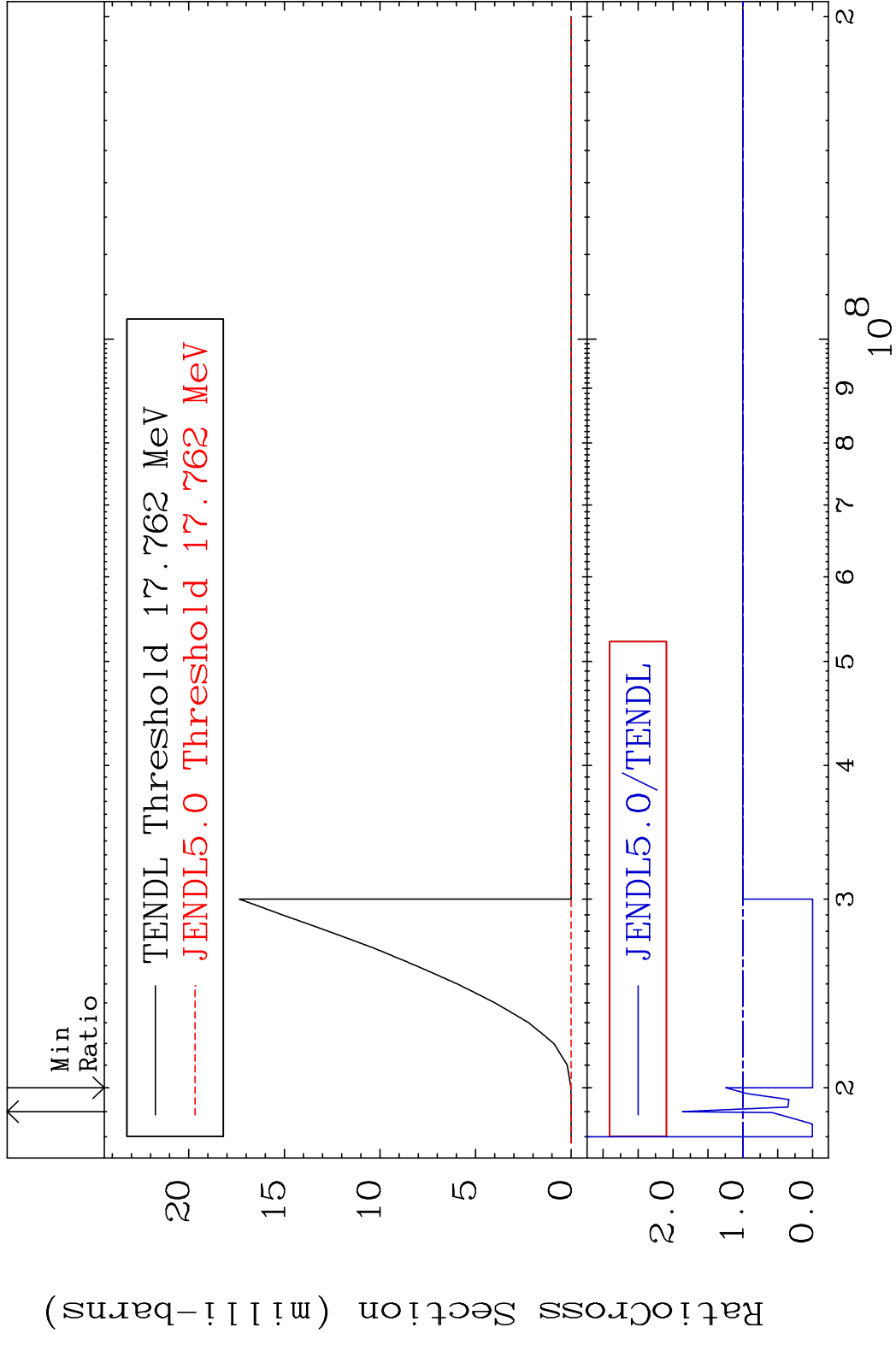


MAT 2040 (n, n') p 20-Ca-45  
 Cross Section -100.0 To 44.51 %

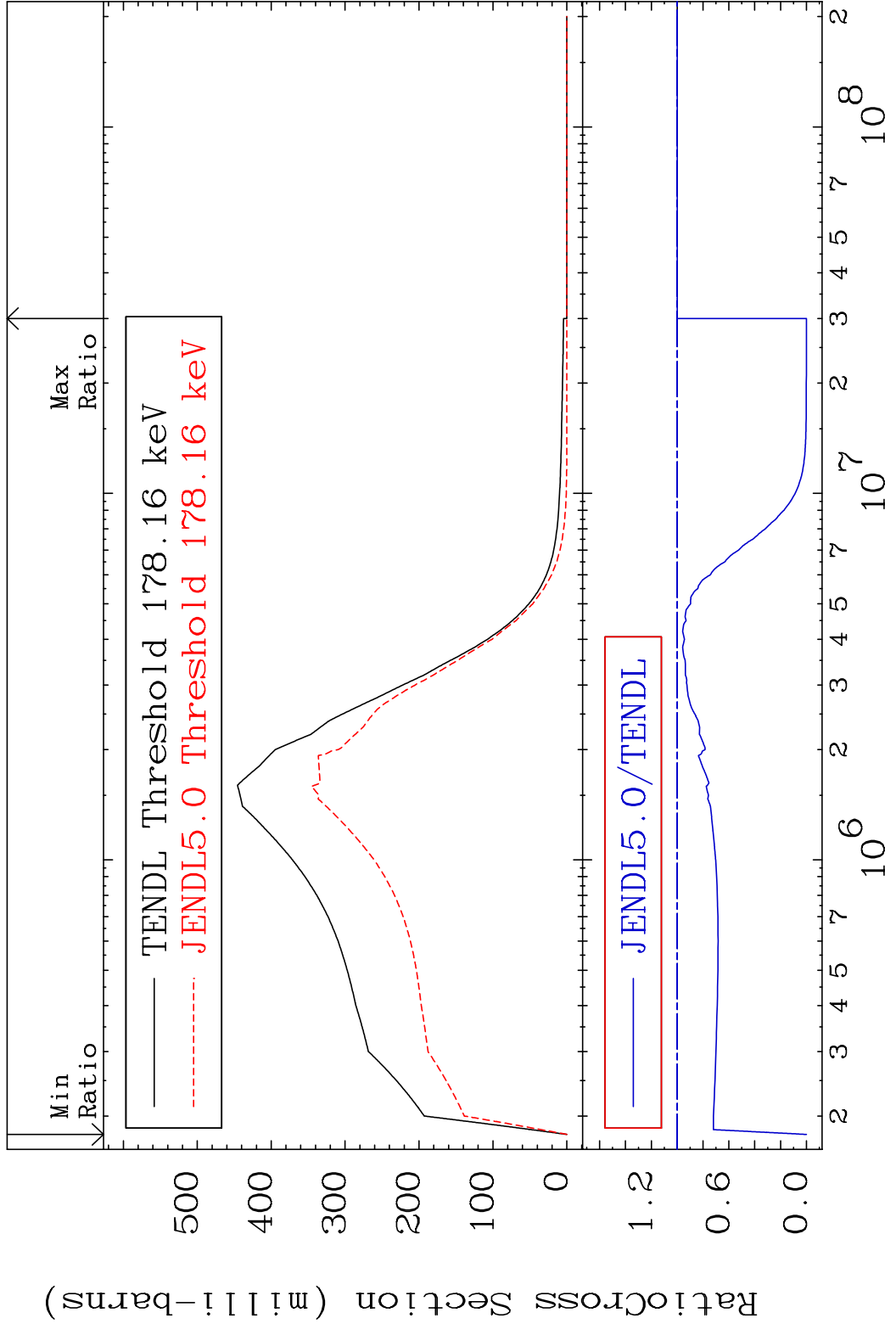


8 Incident Energy (eV) 20-Ca-45

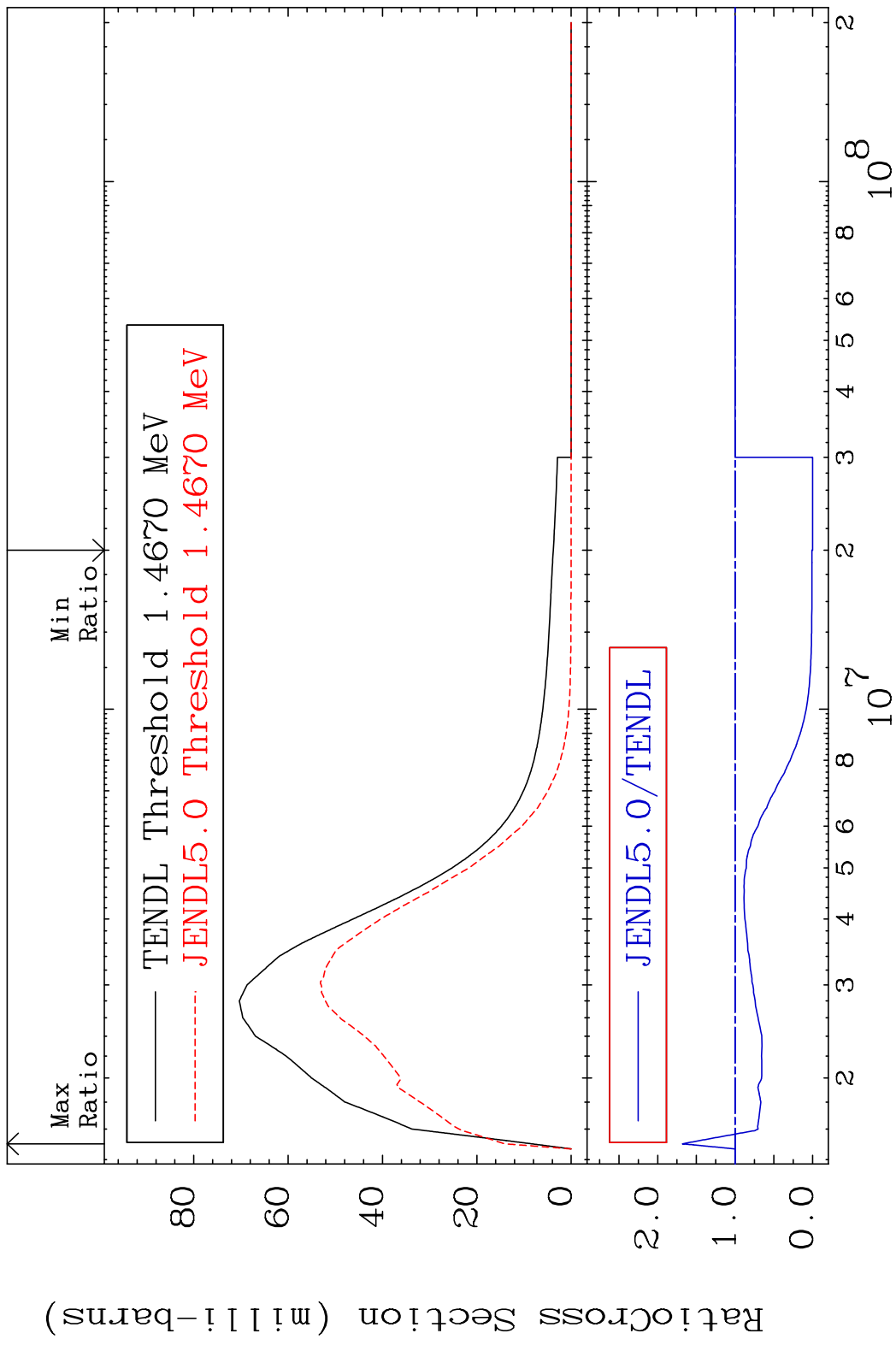
MAT 2040 (n, n') d 20-Ca-45  
 Cross Section -100.0 To 86.52 %



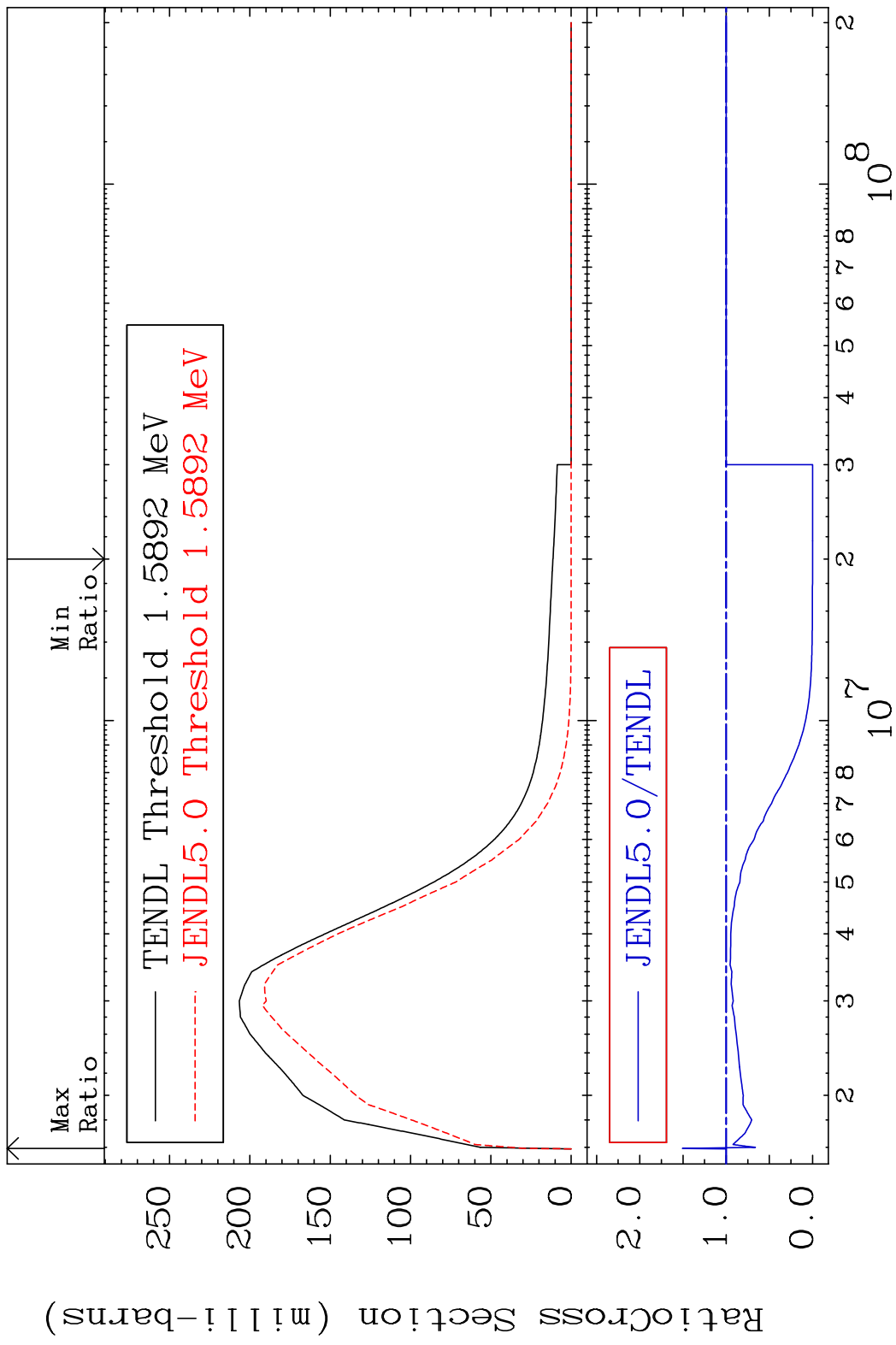
MAT 2040 MT= 51 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 0.000 %



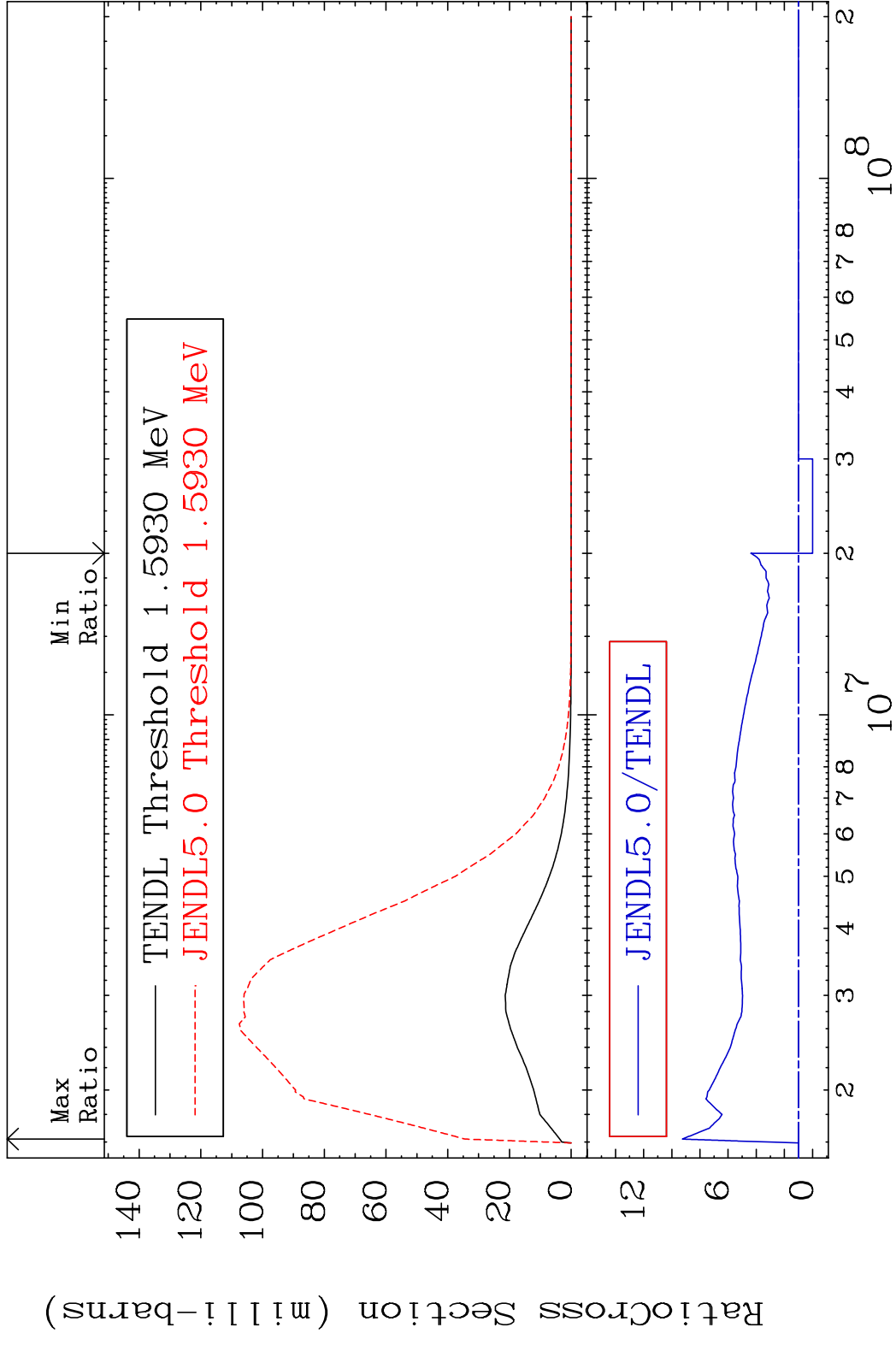
MAT 2040 MT= 52 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 68.11 %



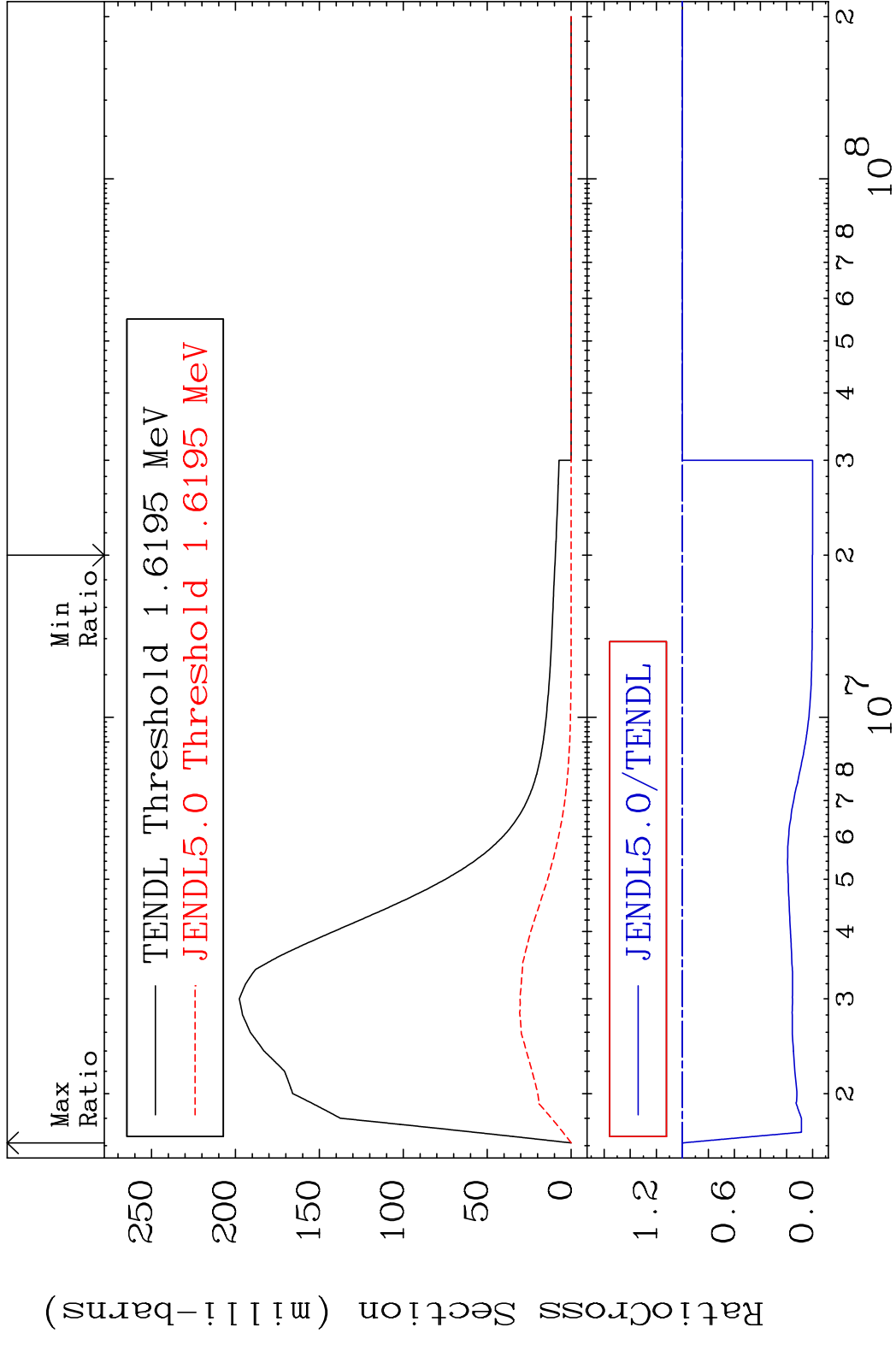
MAT 2040 MT= 53 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 50.71 %



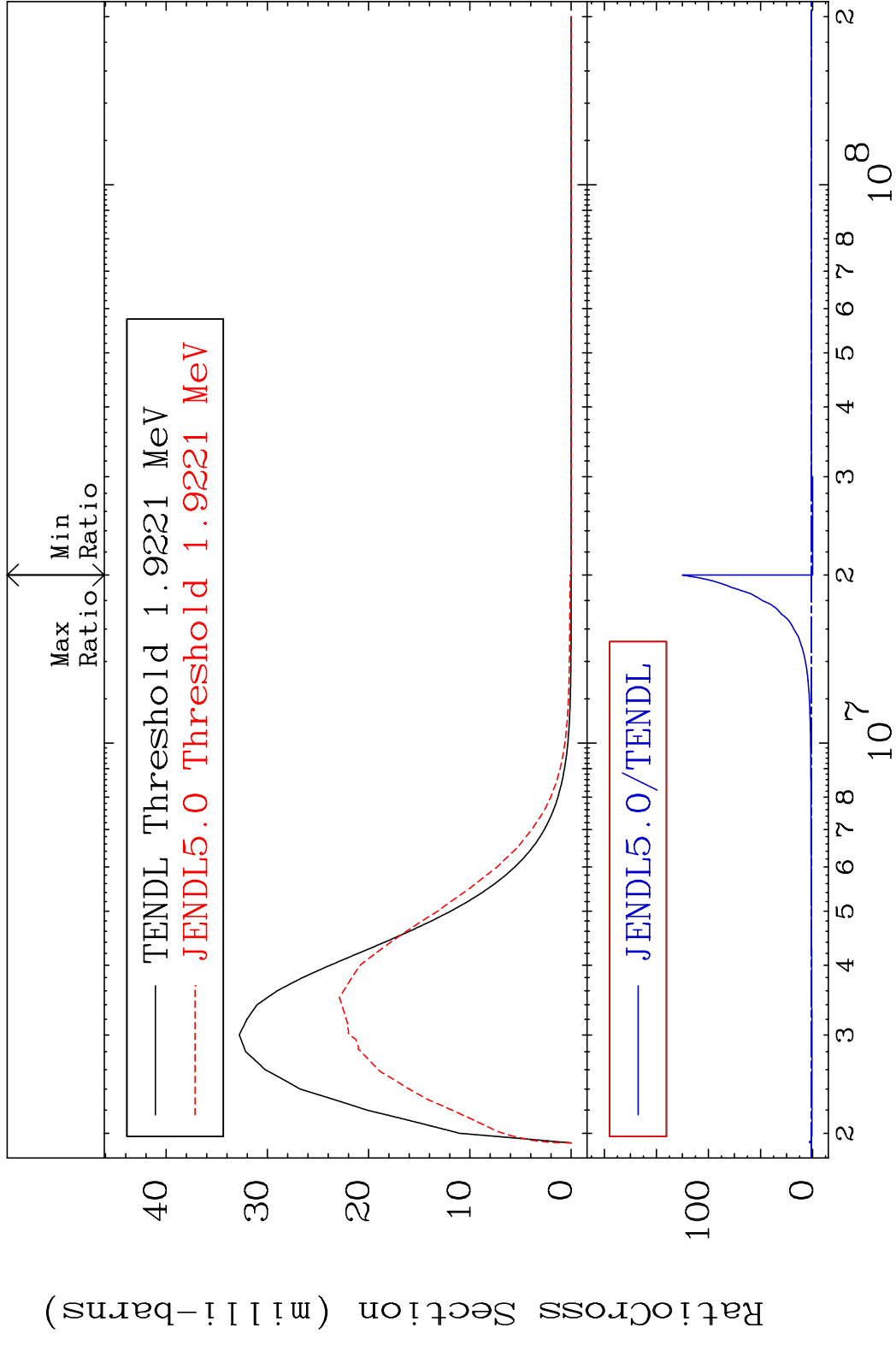
MAT 2040 MT= 54 (n,n') Level 20-Ca-45  
 Cross Section -100.0 To 824.9 %



MAT 2040 MT= 55 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 0.000 %



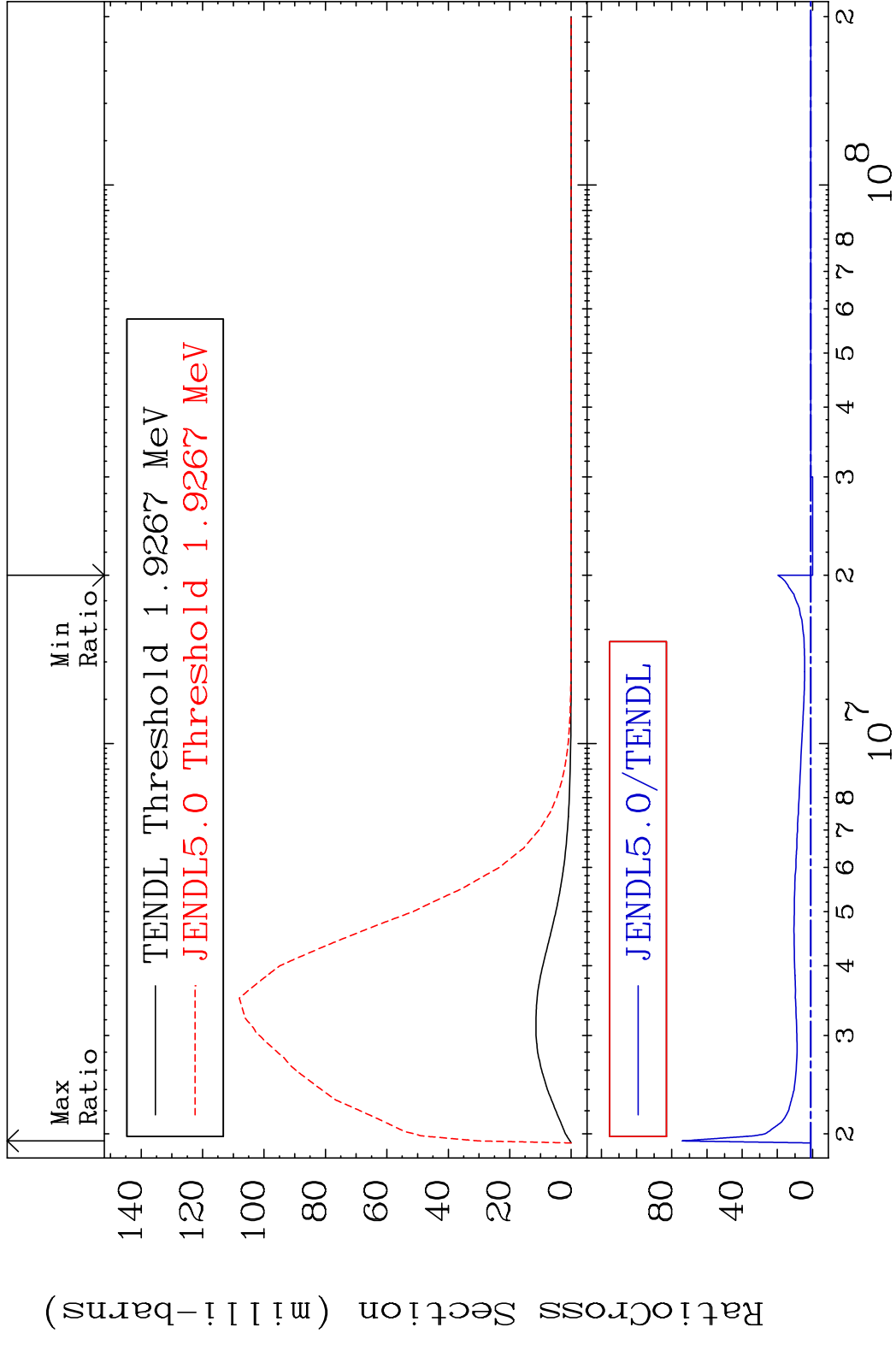
MAT 2040 MT= 56 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 9999. %



15 Incident Energy (eV) 20-Ca-45

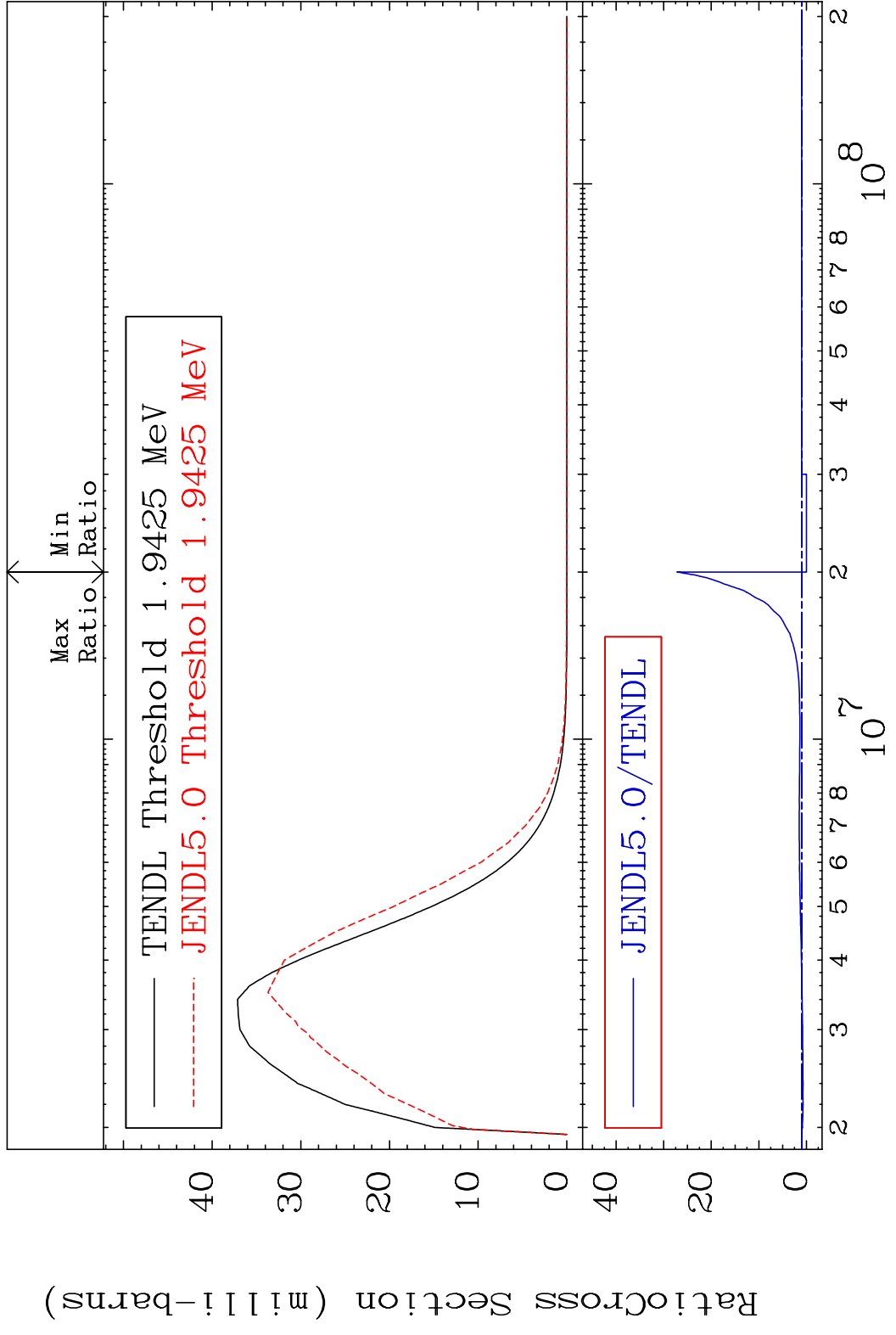


MAT 2040 MT= 57 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 7298. %

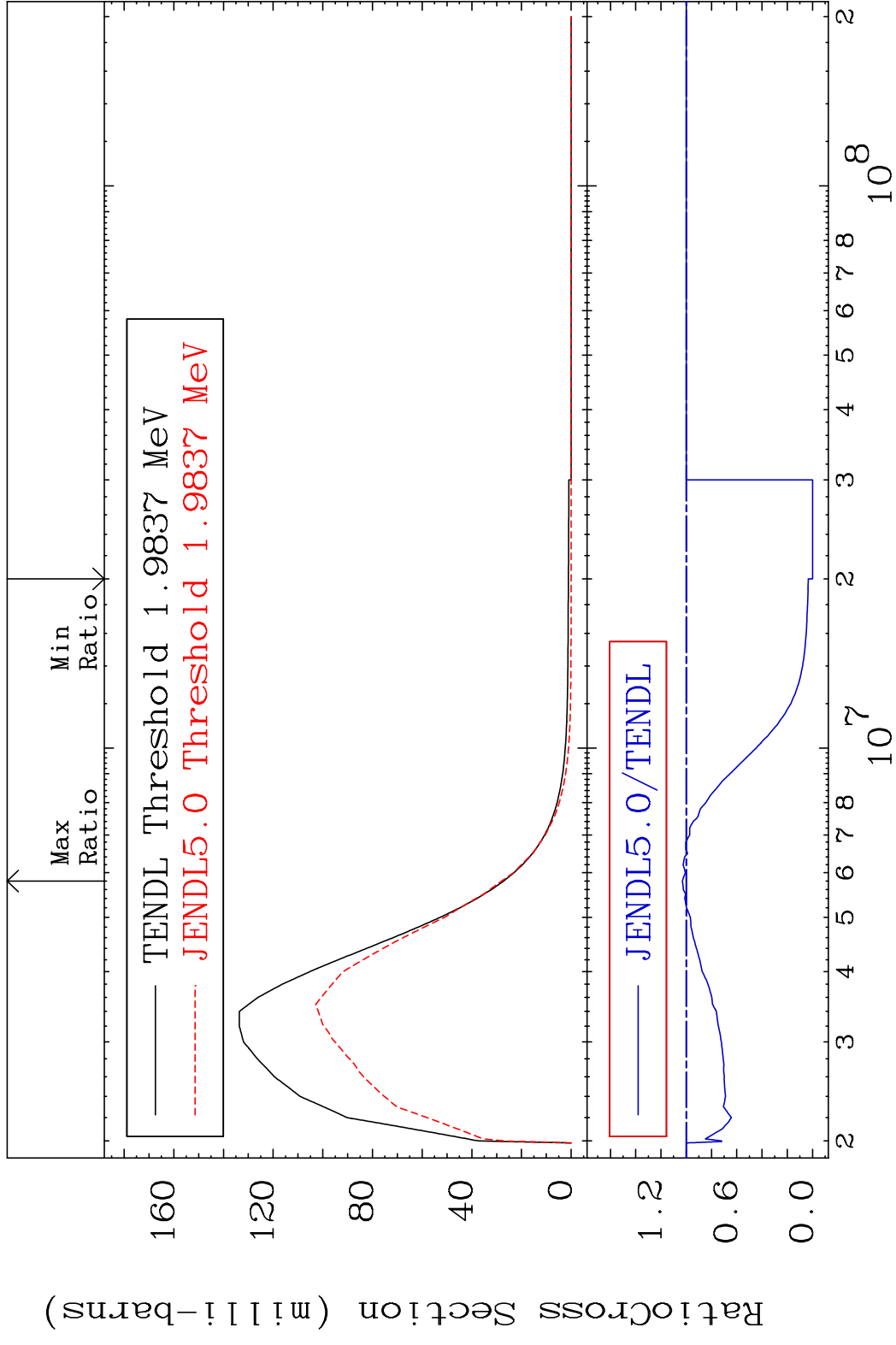


16 Incident Energy (eV) 20-Ca-45

MAT 2040 MT= 58 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 2617. %

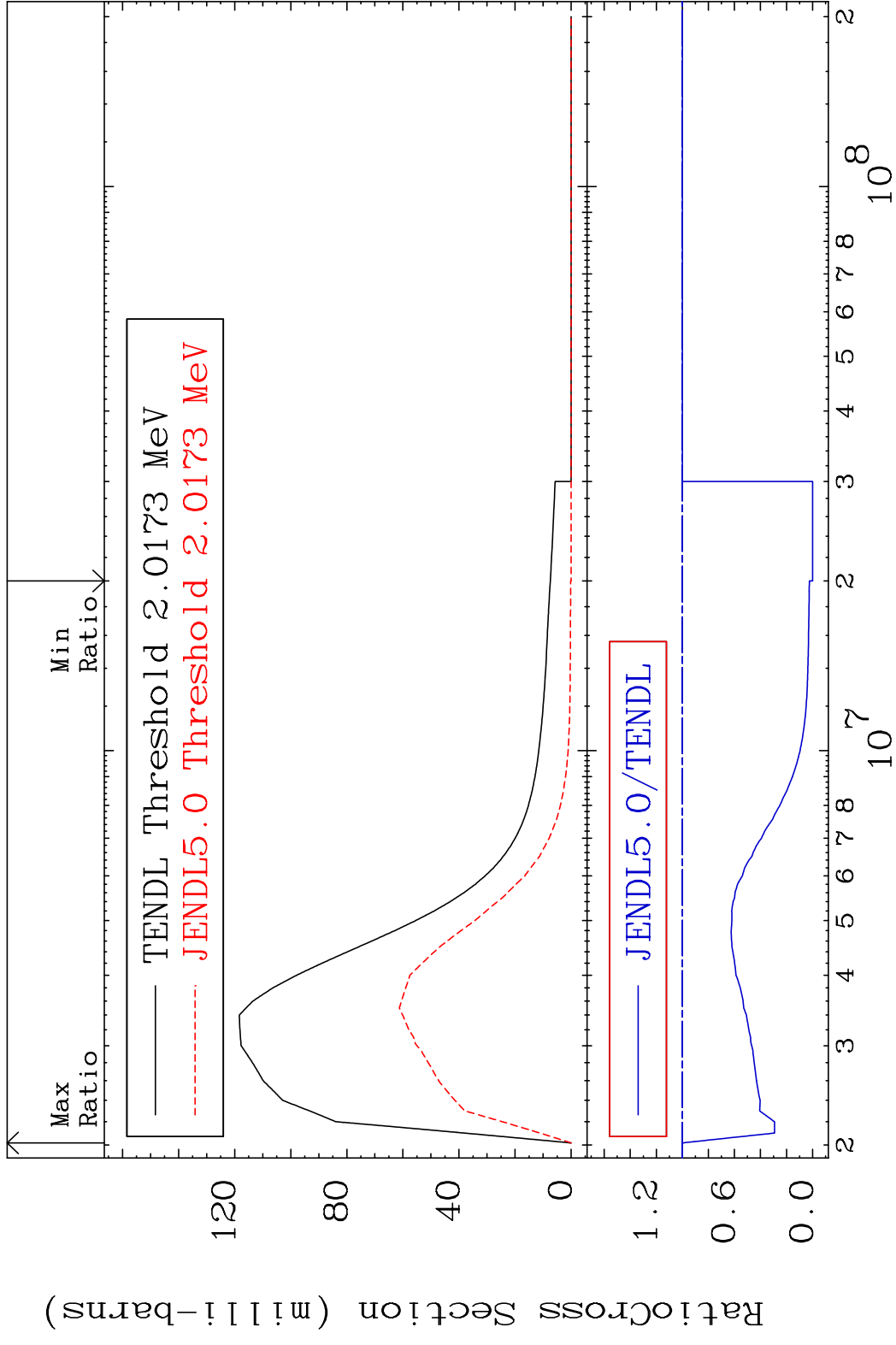


MAT 2040 MT= 59 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 3.075 %

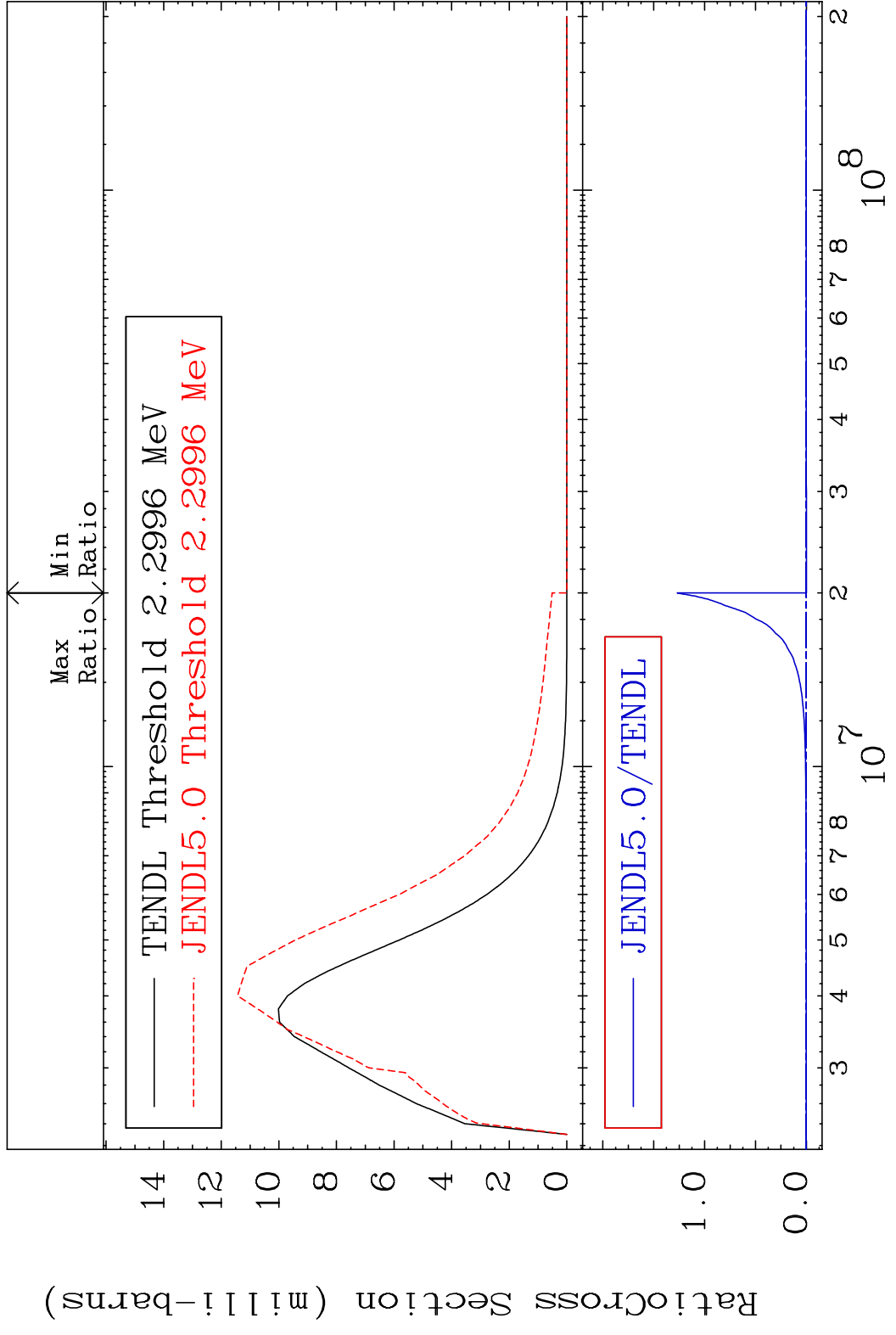


18 Incident Energy (eV) 20-Ca-45

MAT 2040 MT= 60 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 0.000 %

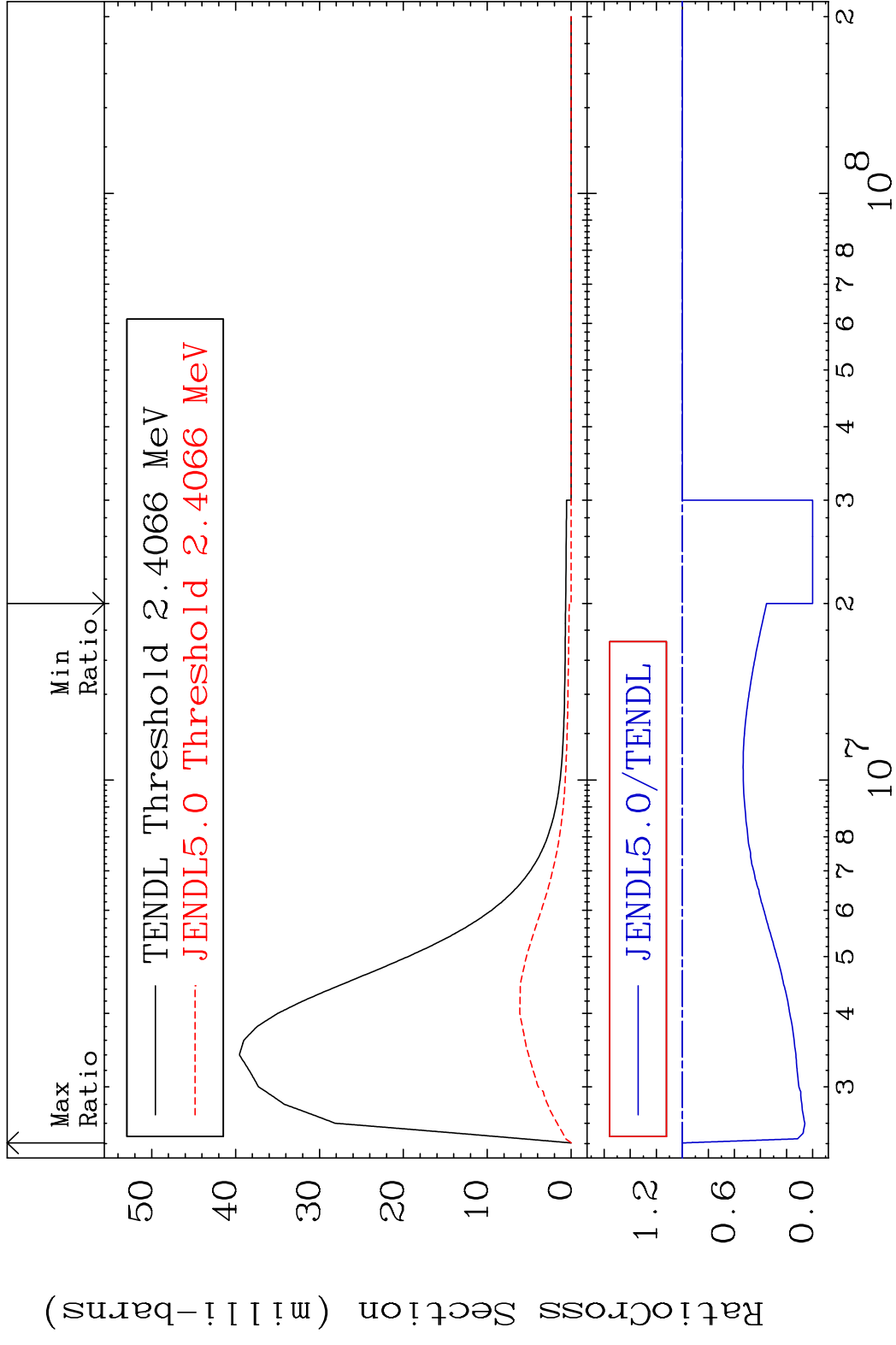


MAT 2040 MT= 61 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 9999. %



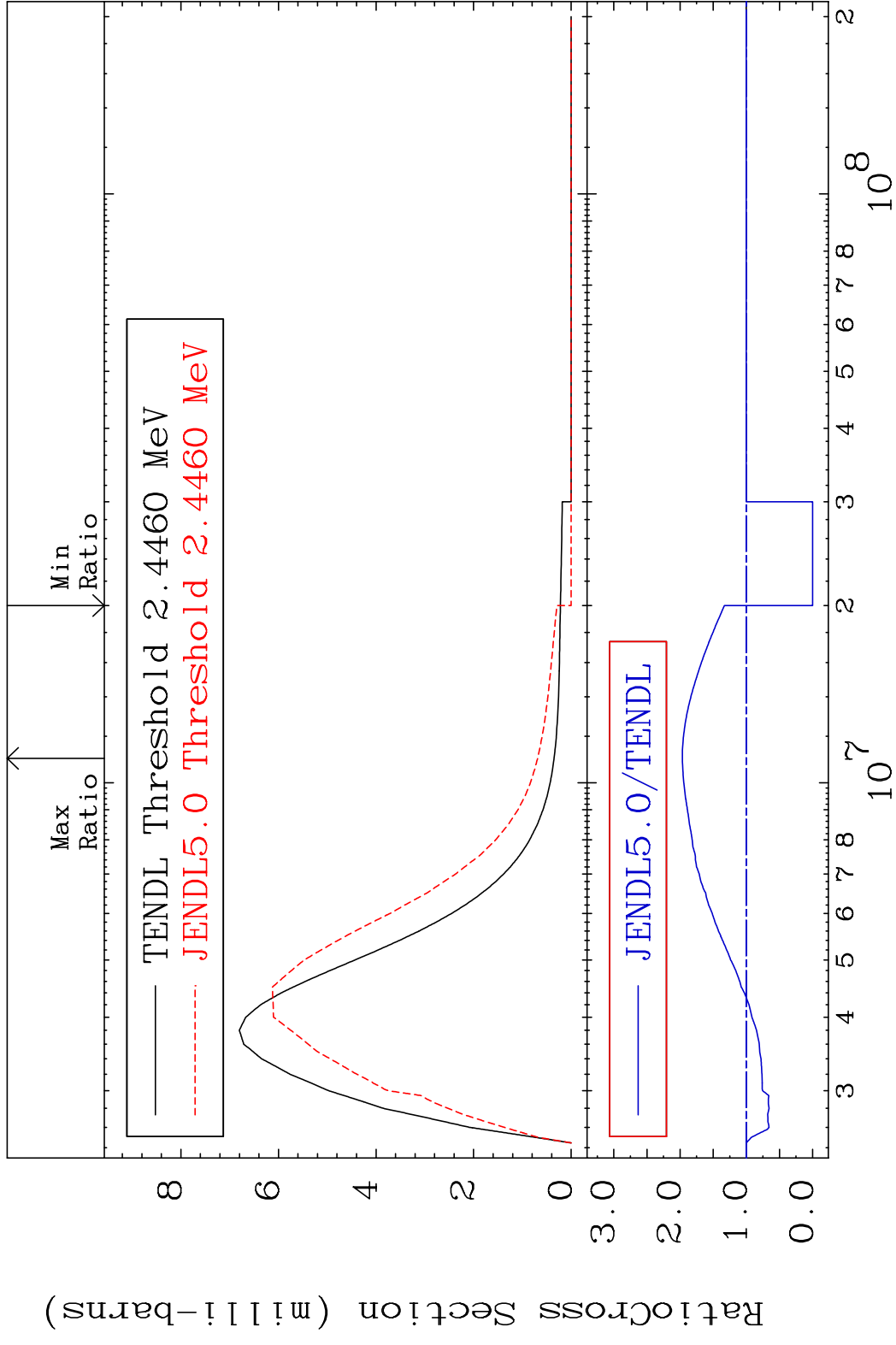
20 Incident Energy (eV) 20-Ca-45

MAT 2040 MT= 62 (n,n') Level 20-Ca-45  
 Cross Section -100.0 To 0.000 %

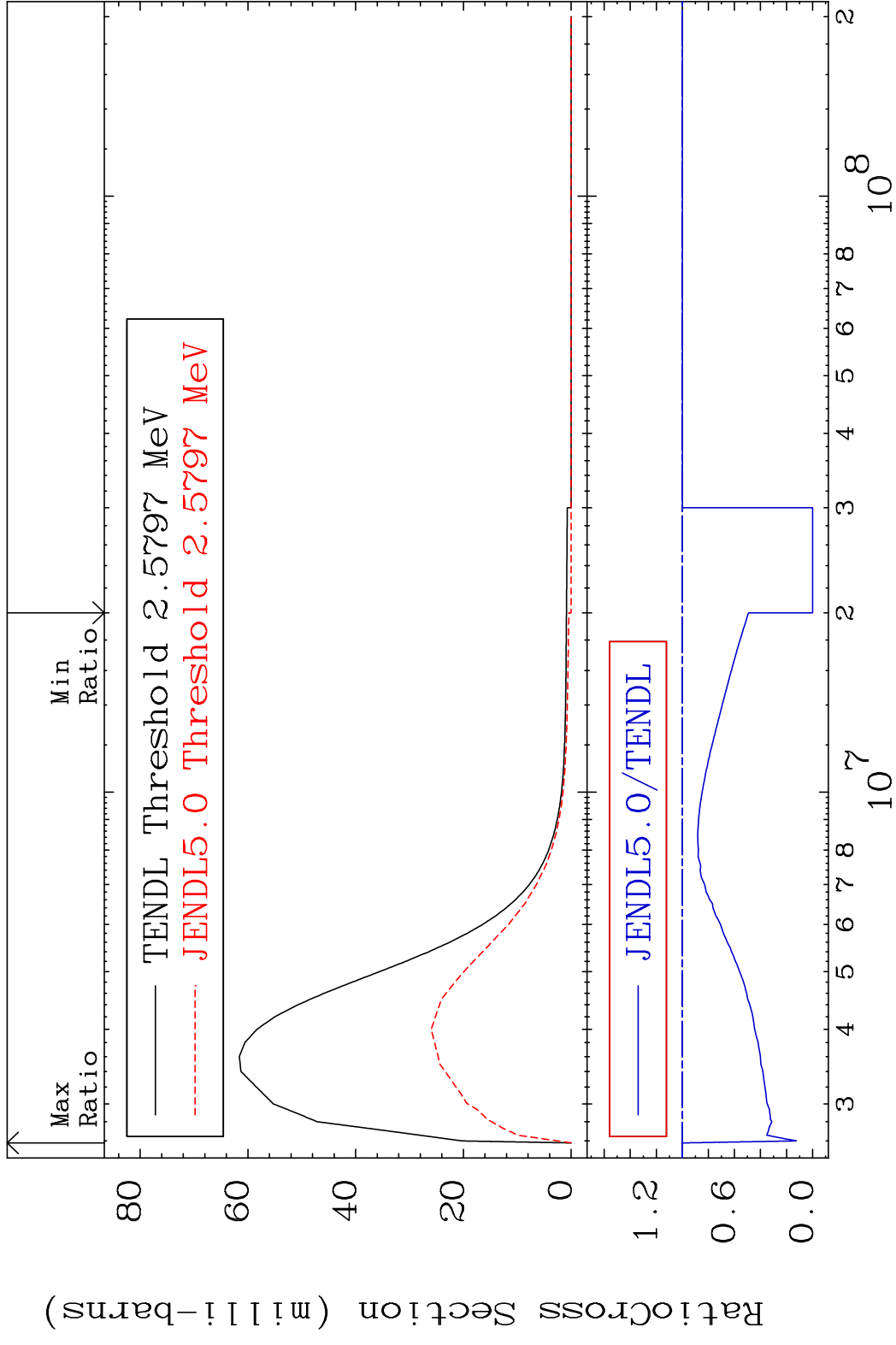


21 Incident Energy (eV) 20-Ca-45

MAT 2040 MT= 63 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 96.53 %

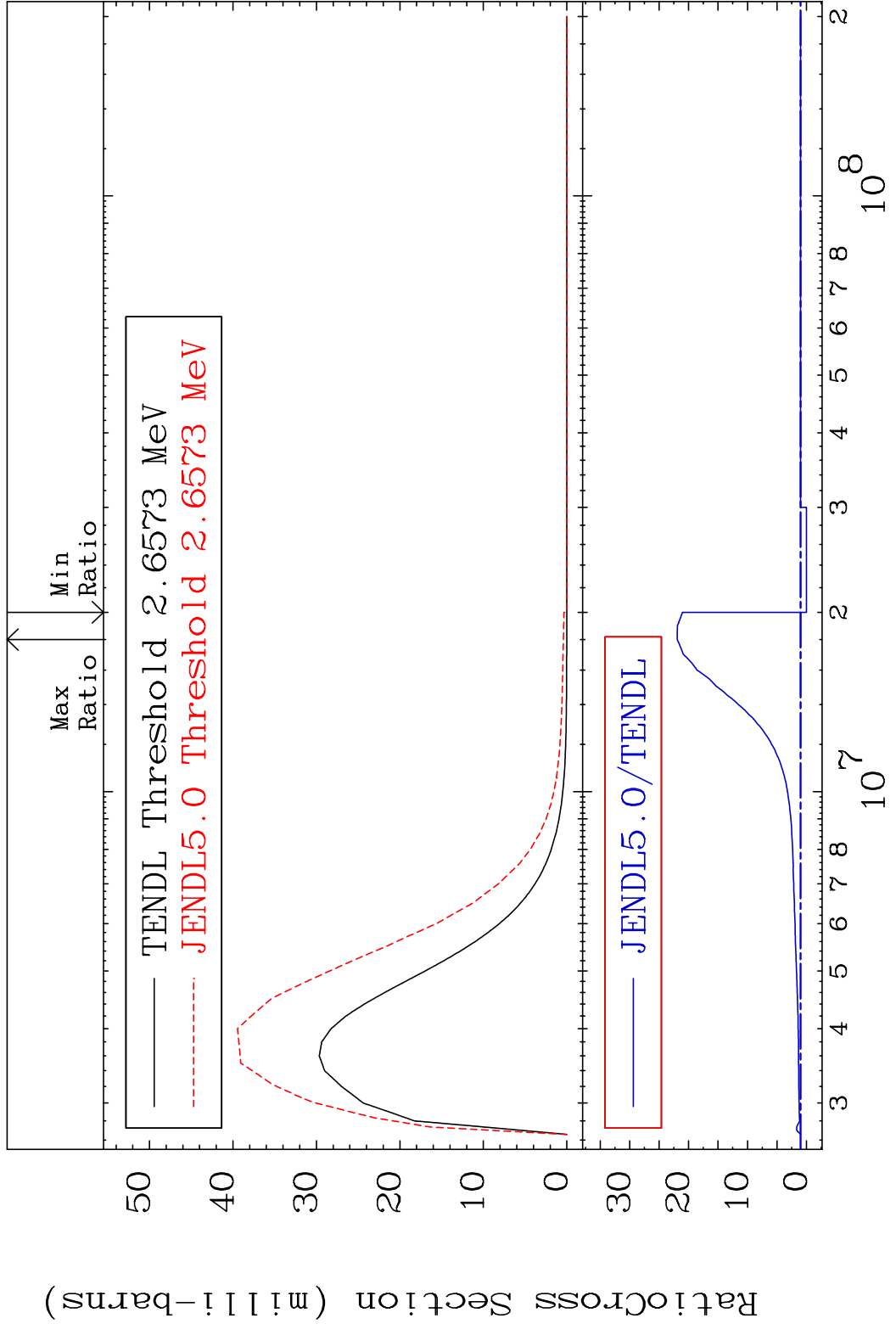


MAT 2040 MT= 64 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 0.000 %

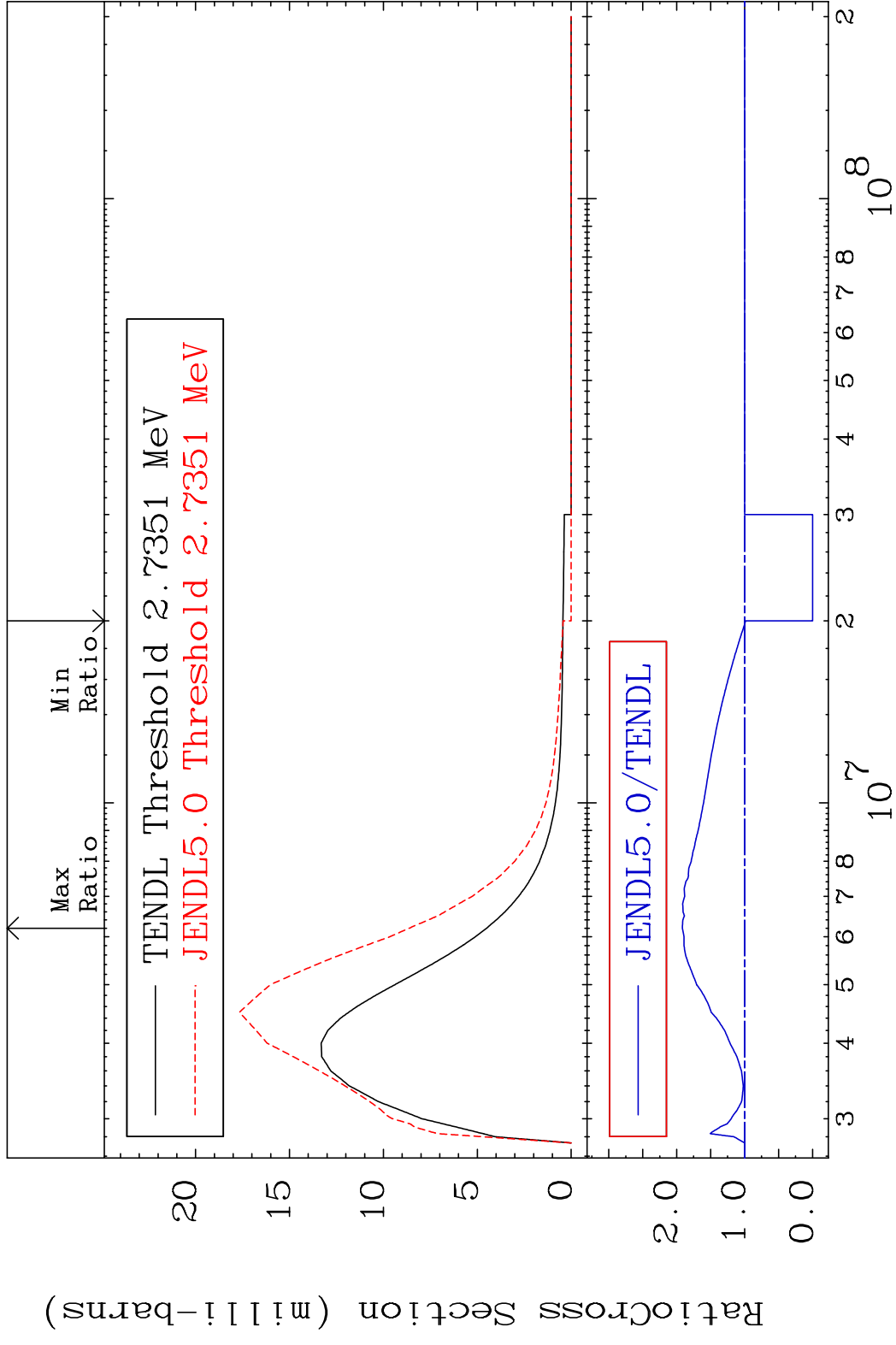




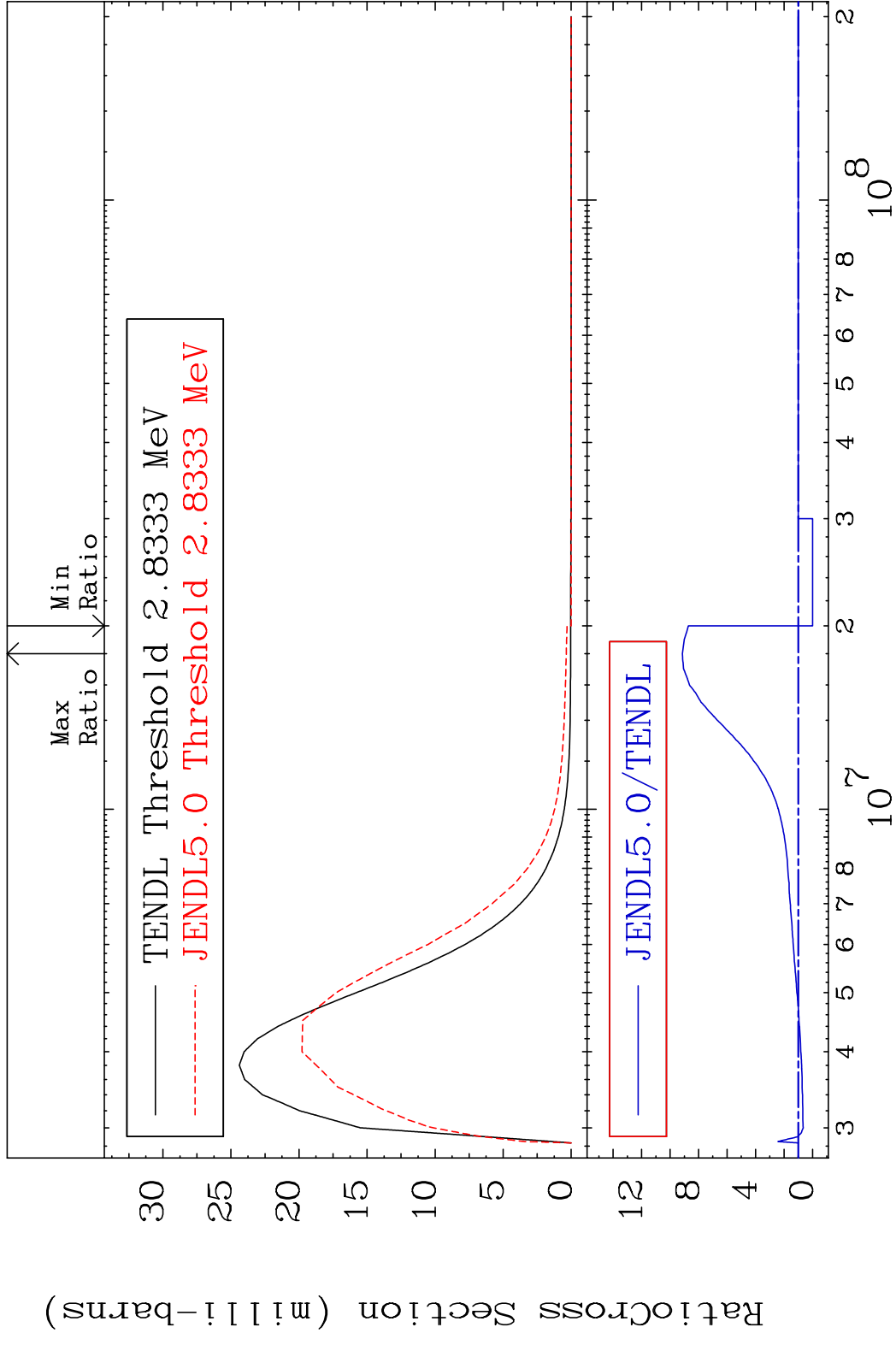
MAT 2040 MT= 65 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 2094. %



MAT 2040 MT= 66 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 91.67 %

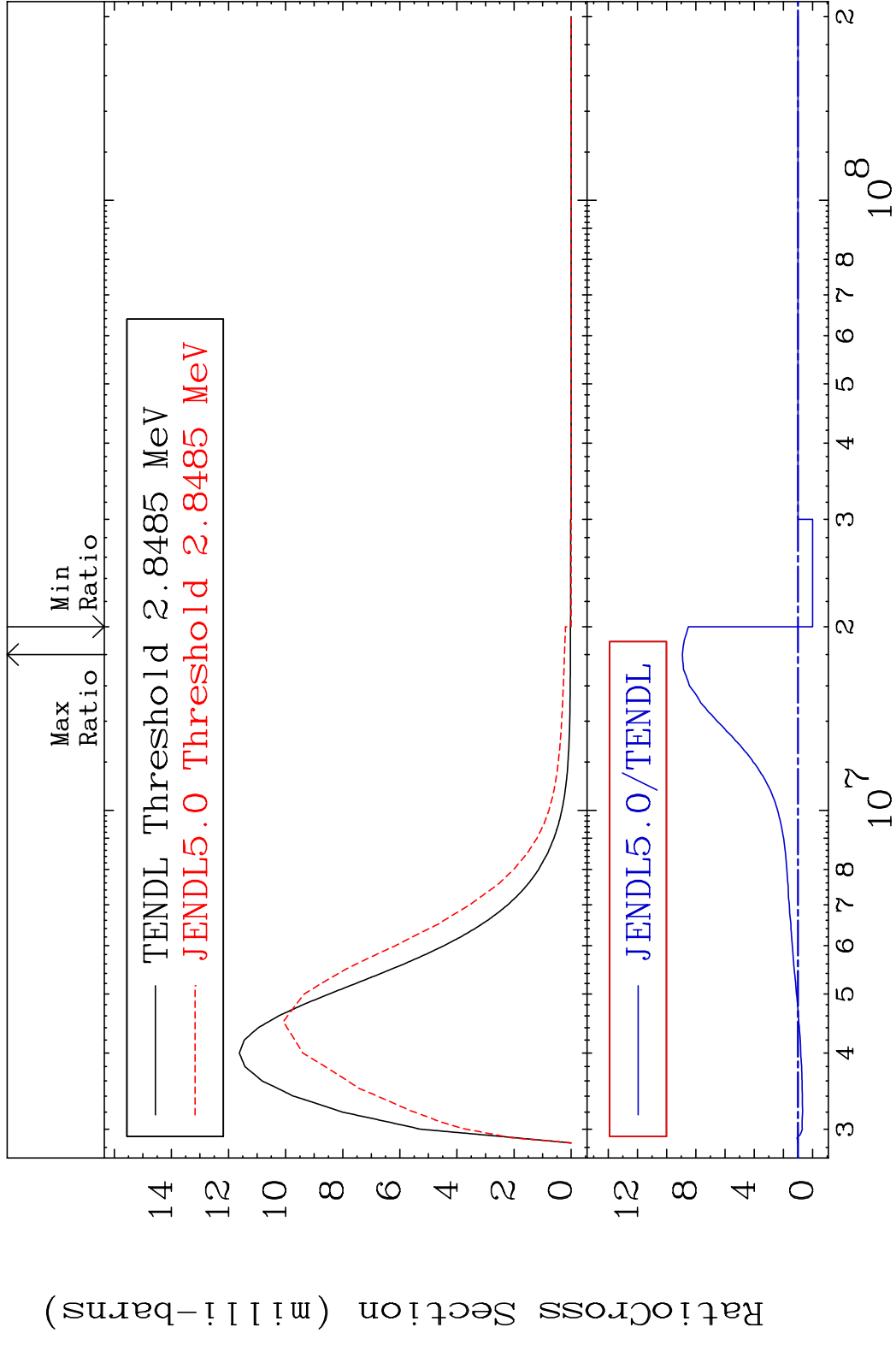


MAT 2040 MT= 67 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 813.9 %

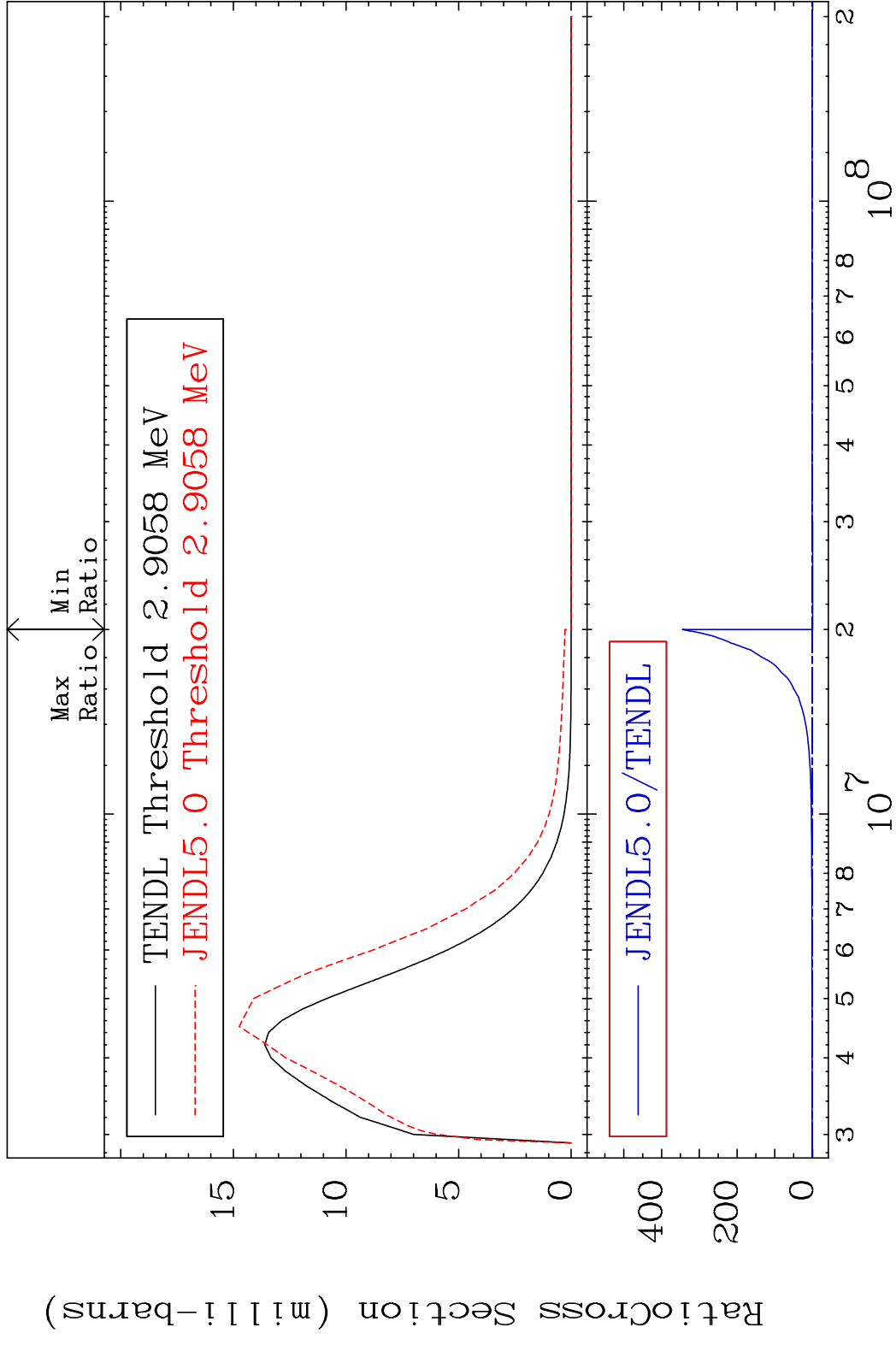


26 Incident Energy (eV) 20-Ca-45

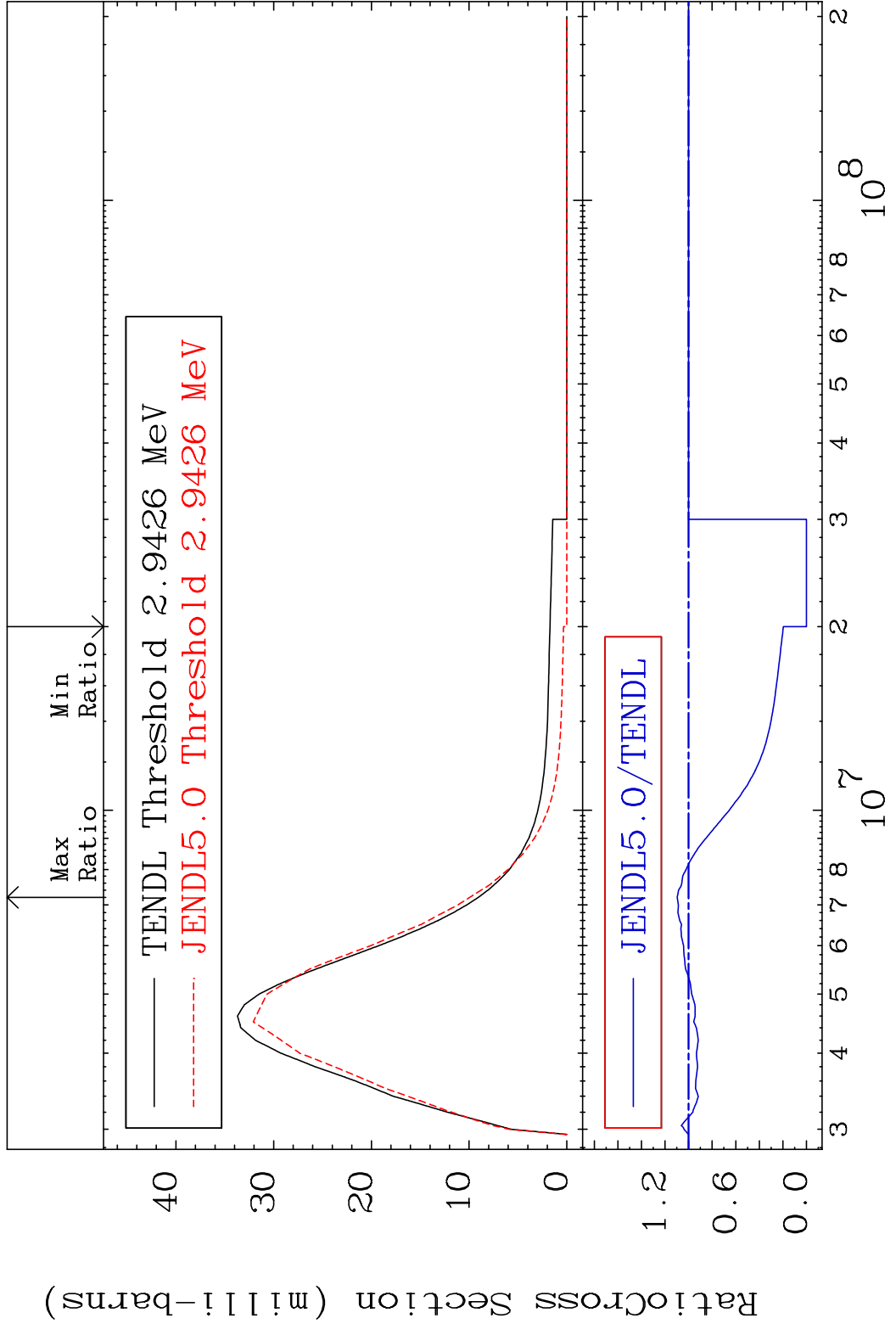
MAT 2040 MT= 68 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 792.1 %



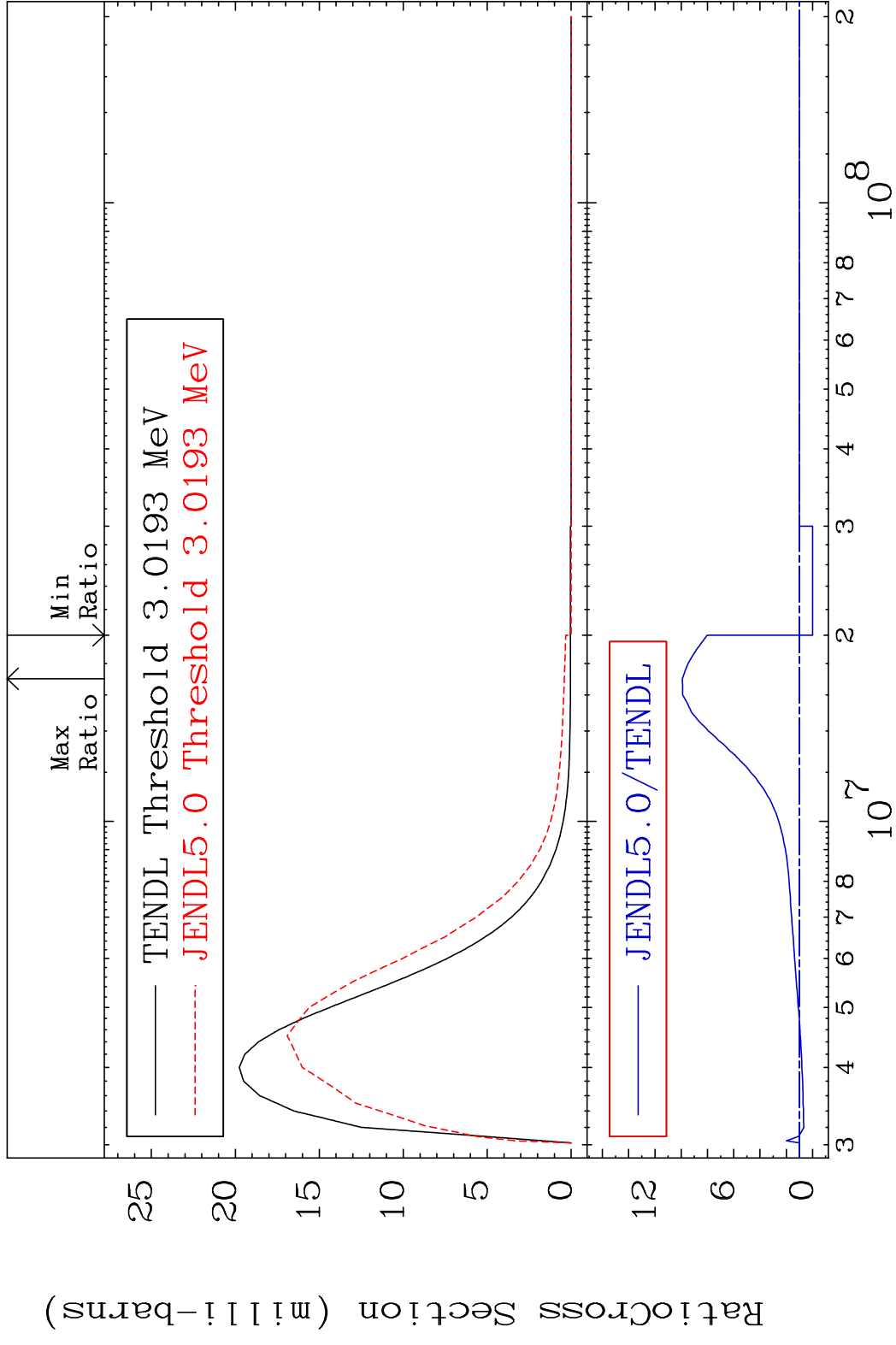
MAT 2040 MT= 69 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 9999. %



MAT 2040 MT= 70 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 9.700 %



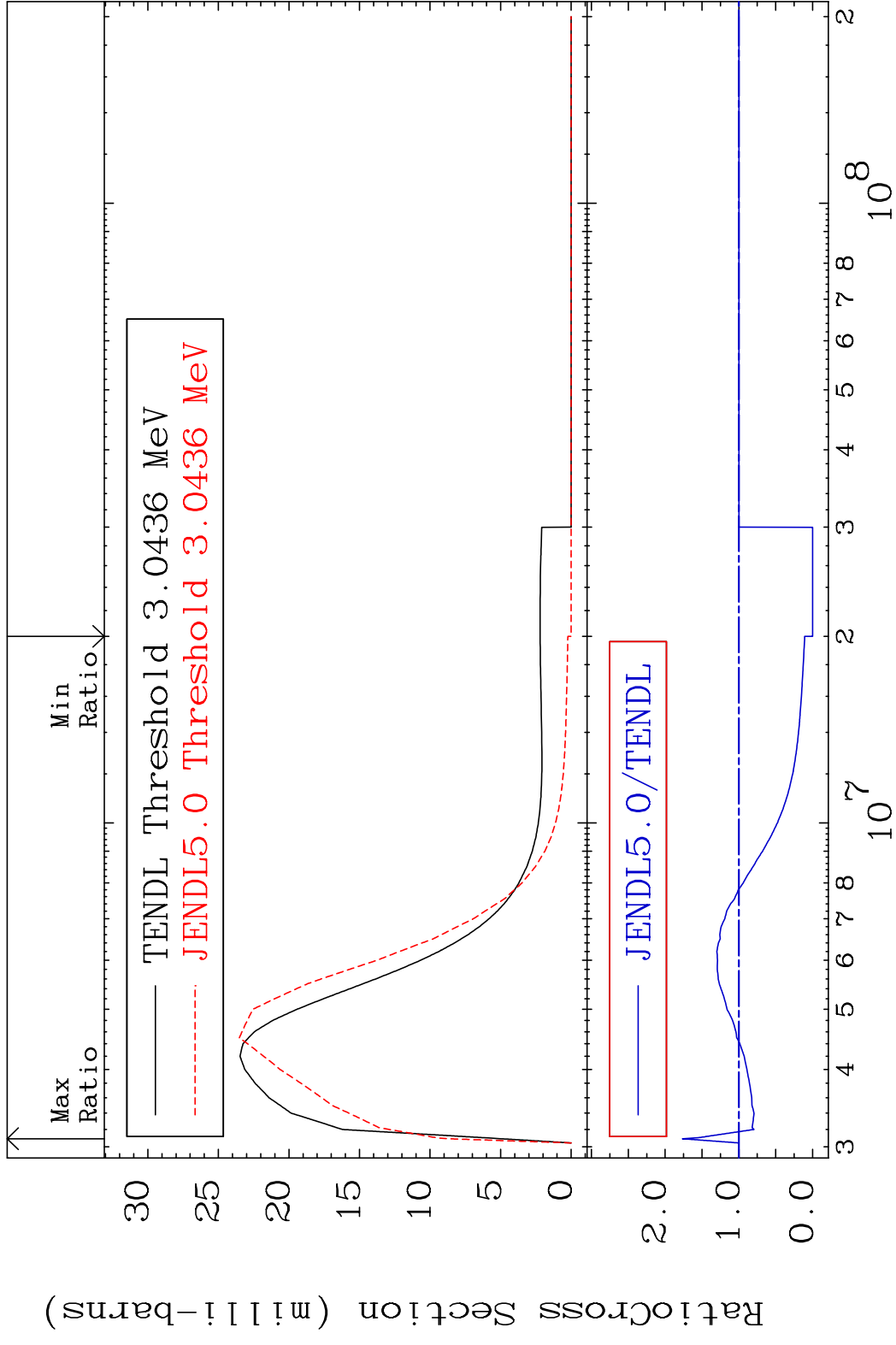
MAT 2040 MT= 71 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 891.1 %



30

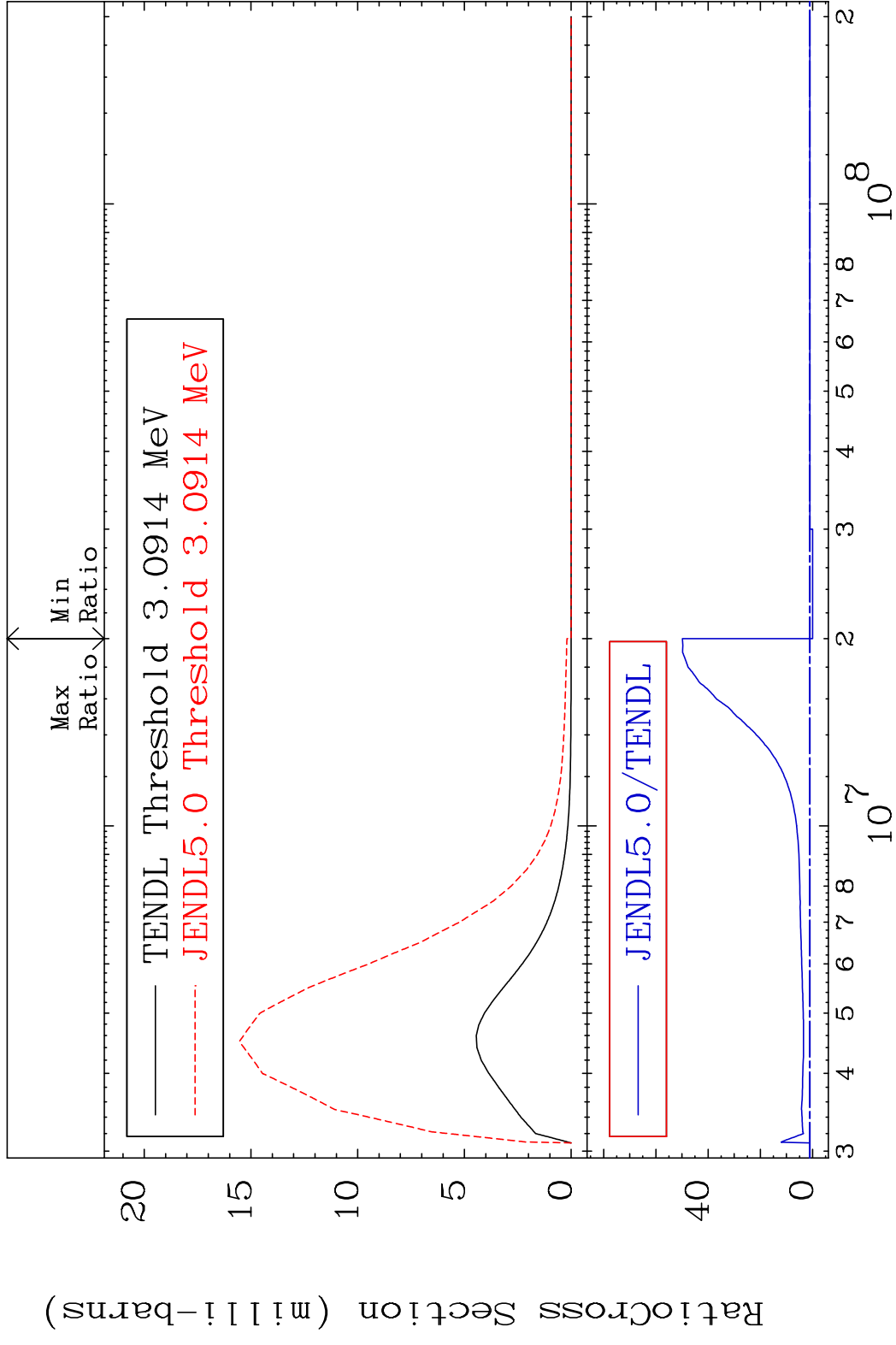
Incident Energy (eV) 20-Ca-45

MAT 2040 MT= 72 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 76.67 %

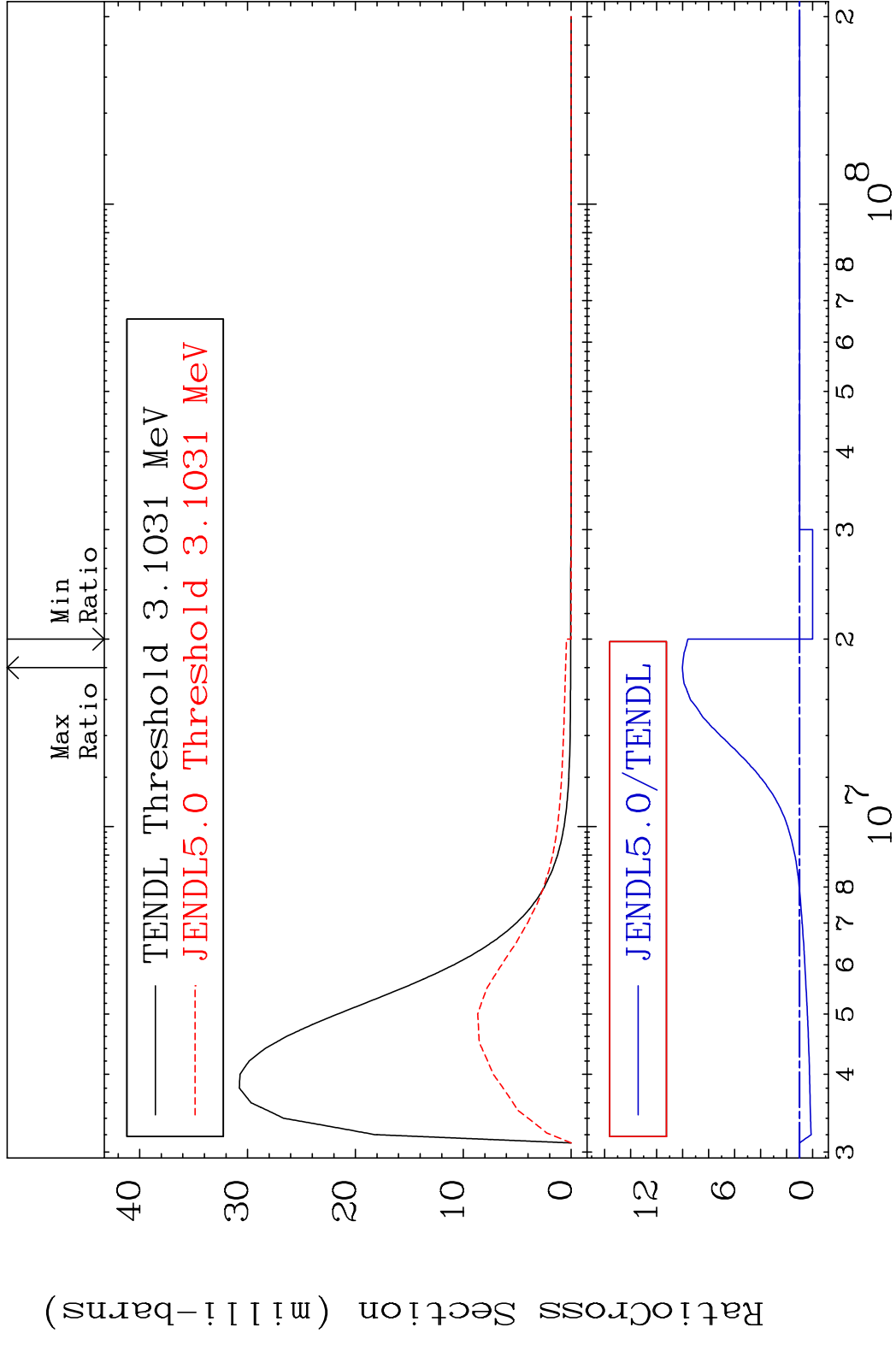




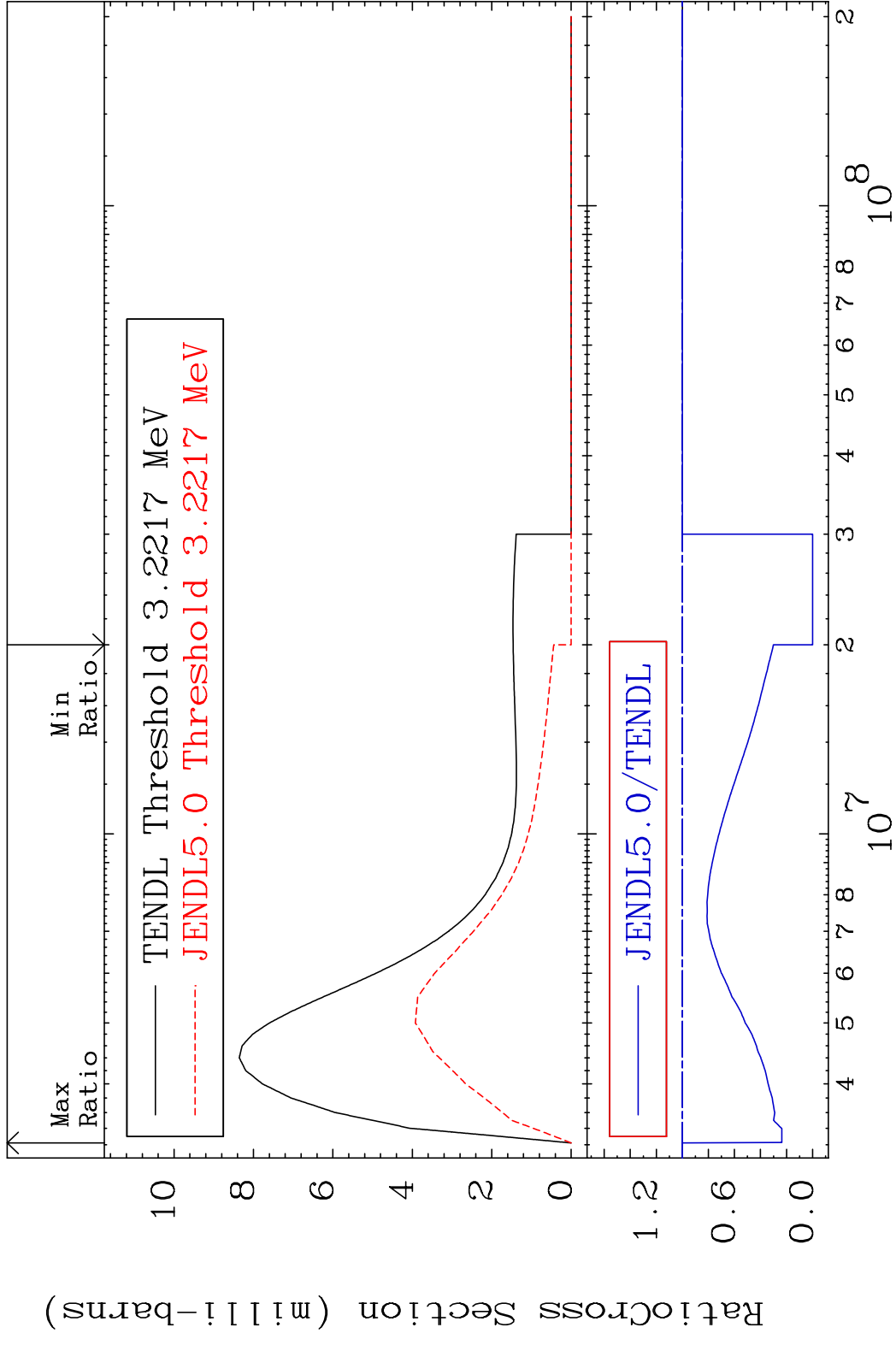
MAT 2040 MT= 73 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 4886. %



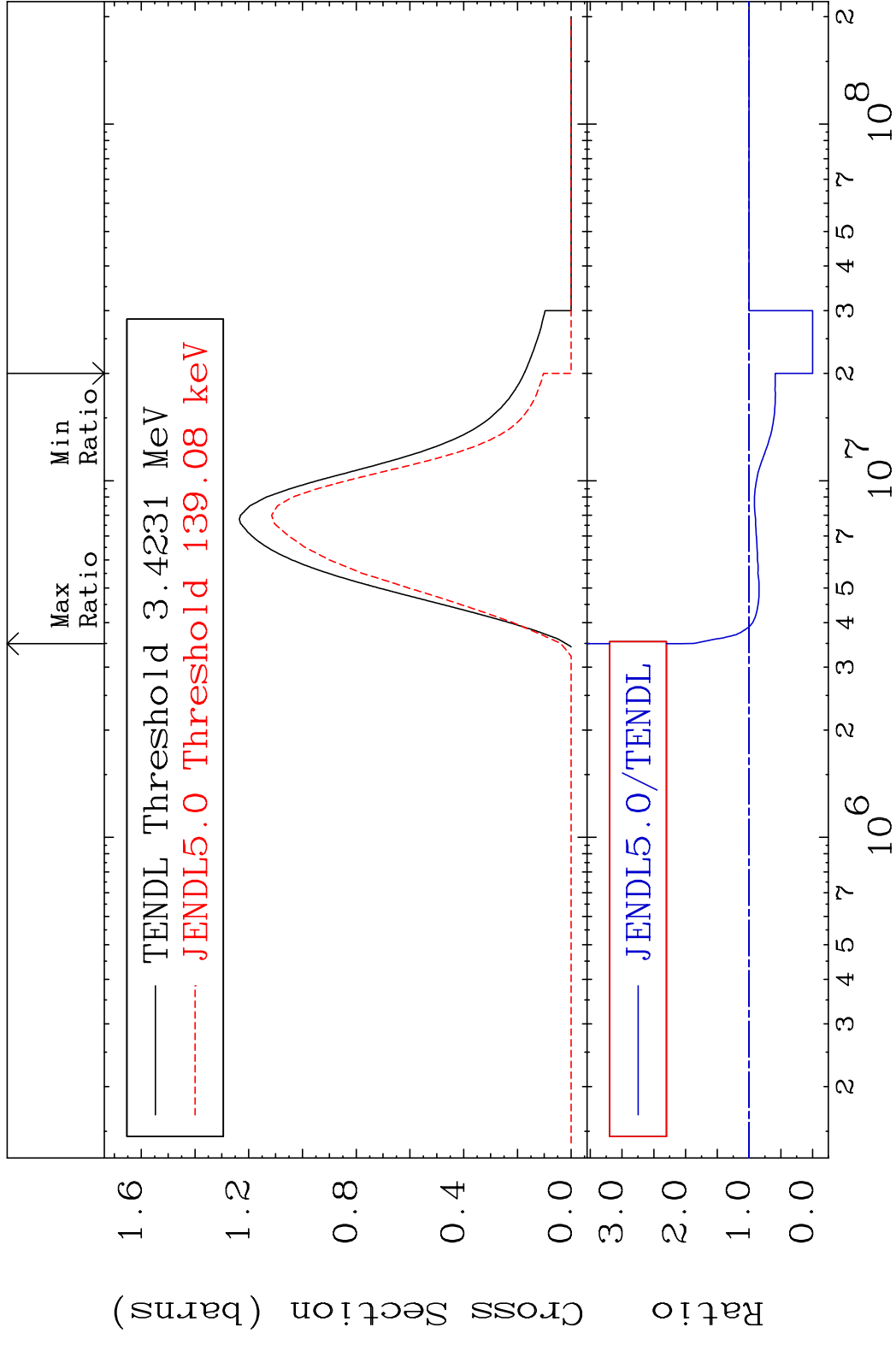
MAT 2040 MT= 74 (n, n') Level 20-Ca-45  
 Cross Section -100.0 To 902.0 %



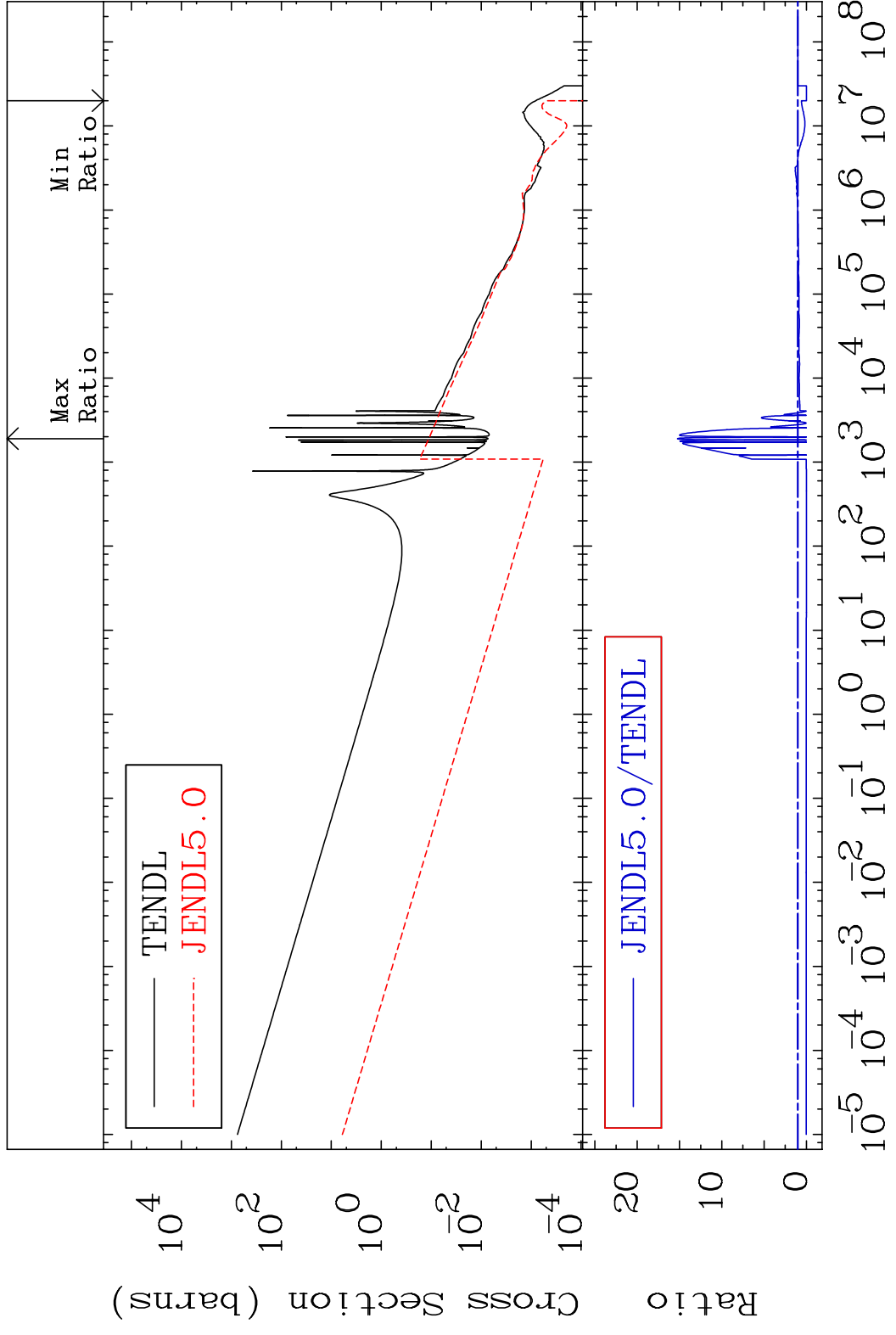
MAT 2040 MT= 75 (n,n') Level 20-Ca-45  
 Cross Section -100.0 To 0.000 %



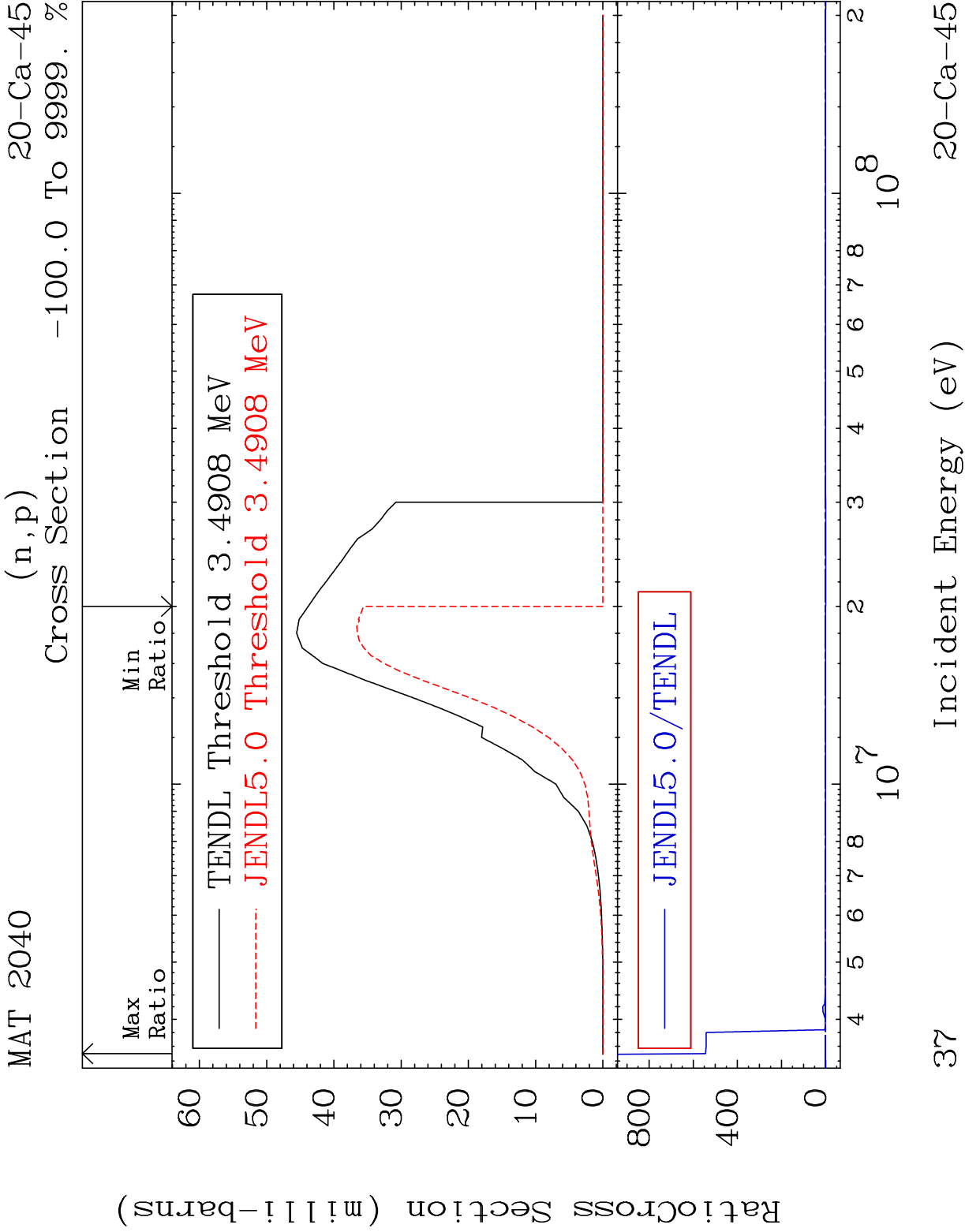
MAT 2040 (n, n') Continuum 20-Ca-45  
 Cross Section -100.0 To 105.1 %



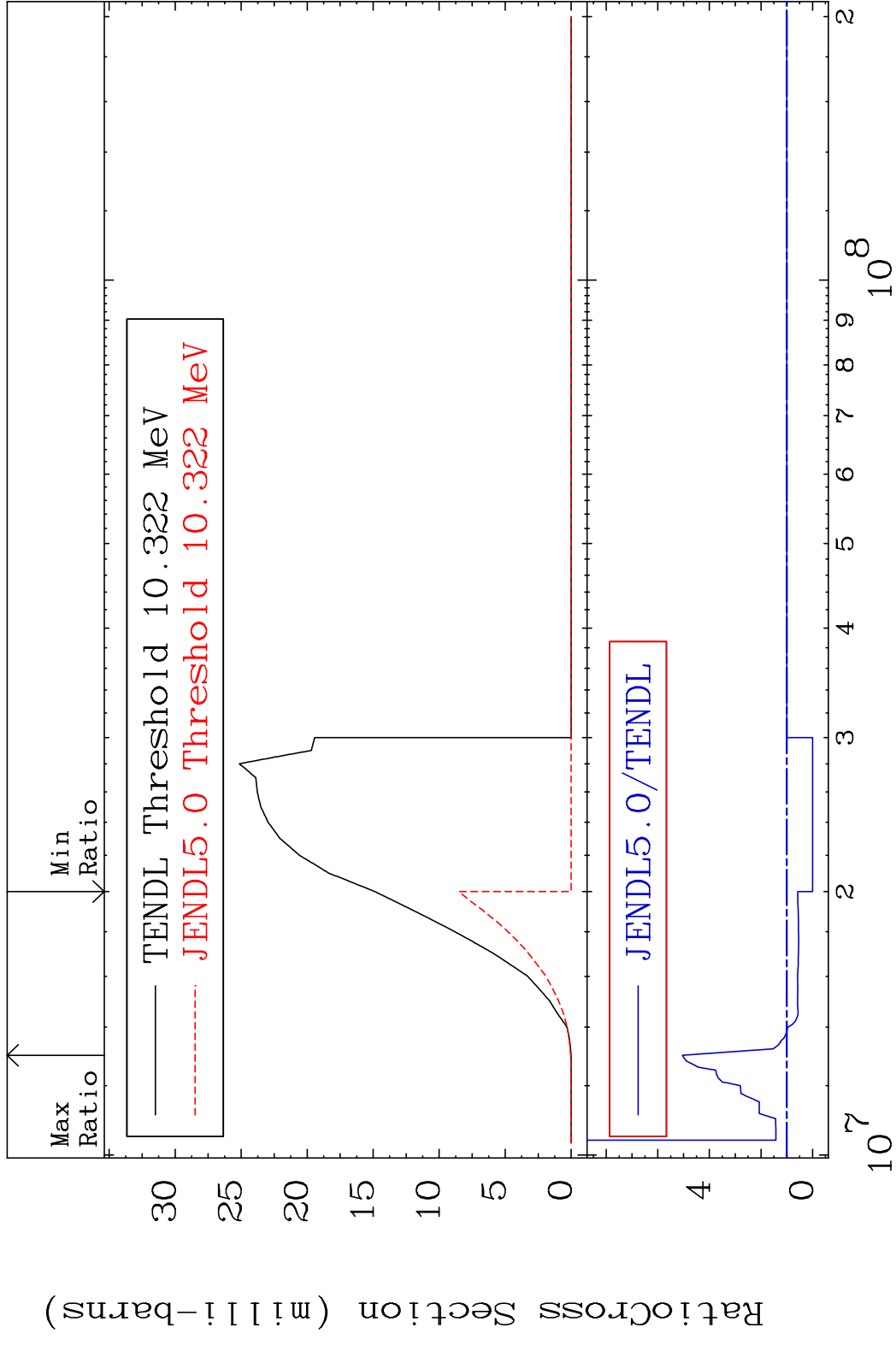
MAT 2040  $(n, \gamma)$  Cross Section  $20\text{-Ca-45}$   
 -100.0 To 1427. %



36 Incident Energy (eV)  $20\text{-Ca-45}$

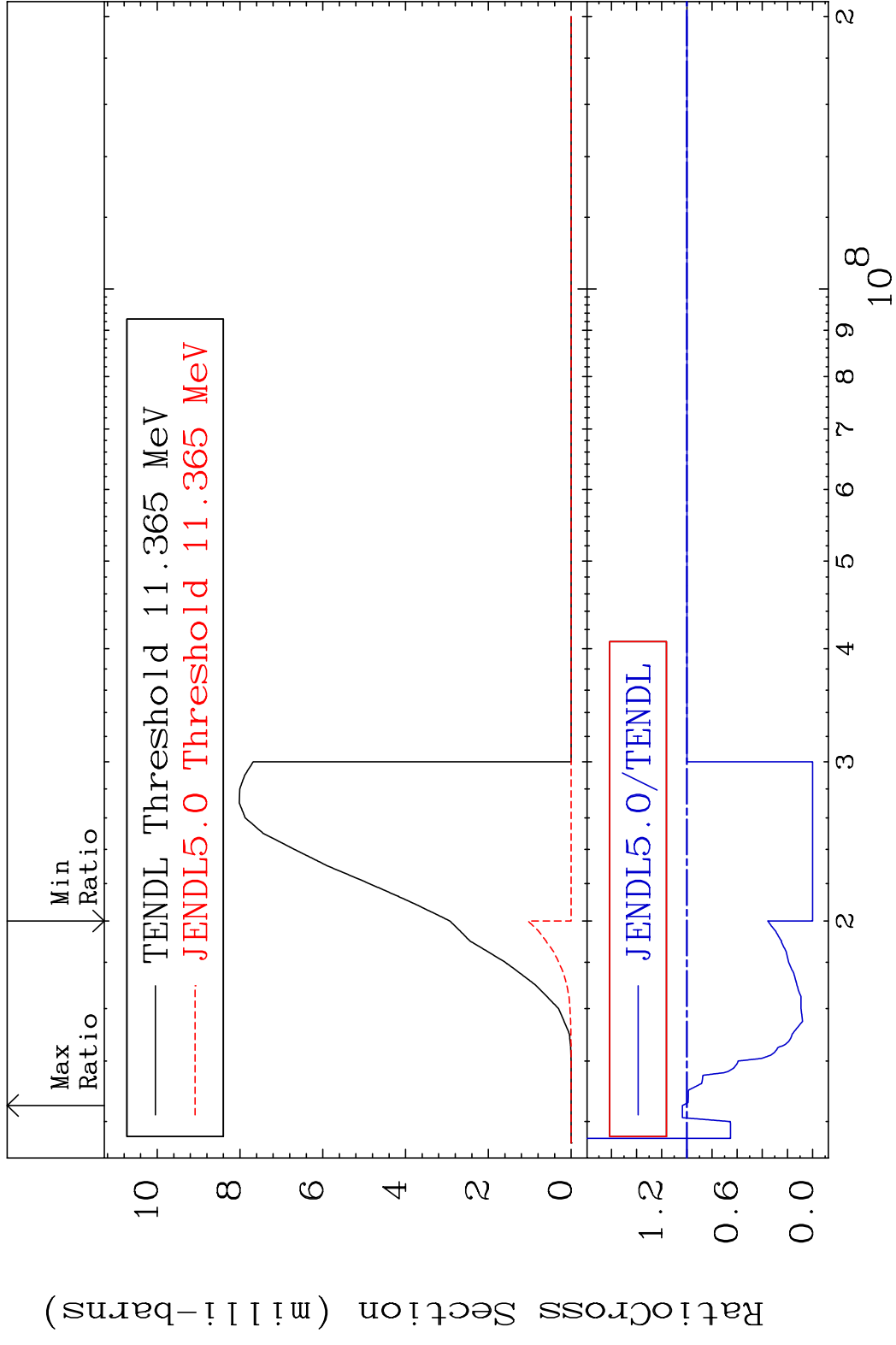


MAT 2040 (n,d) 20-Ca-45  
 Cross Section -100.0 To 404.9 %



38 Incident Energy (eV) 20-Ca-45

MAT 2040 (n, t) 20-Ca-45  
 Cross Section -100.0 To 3.569 %



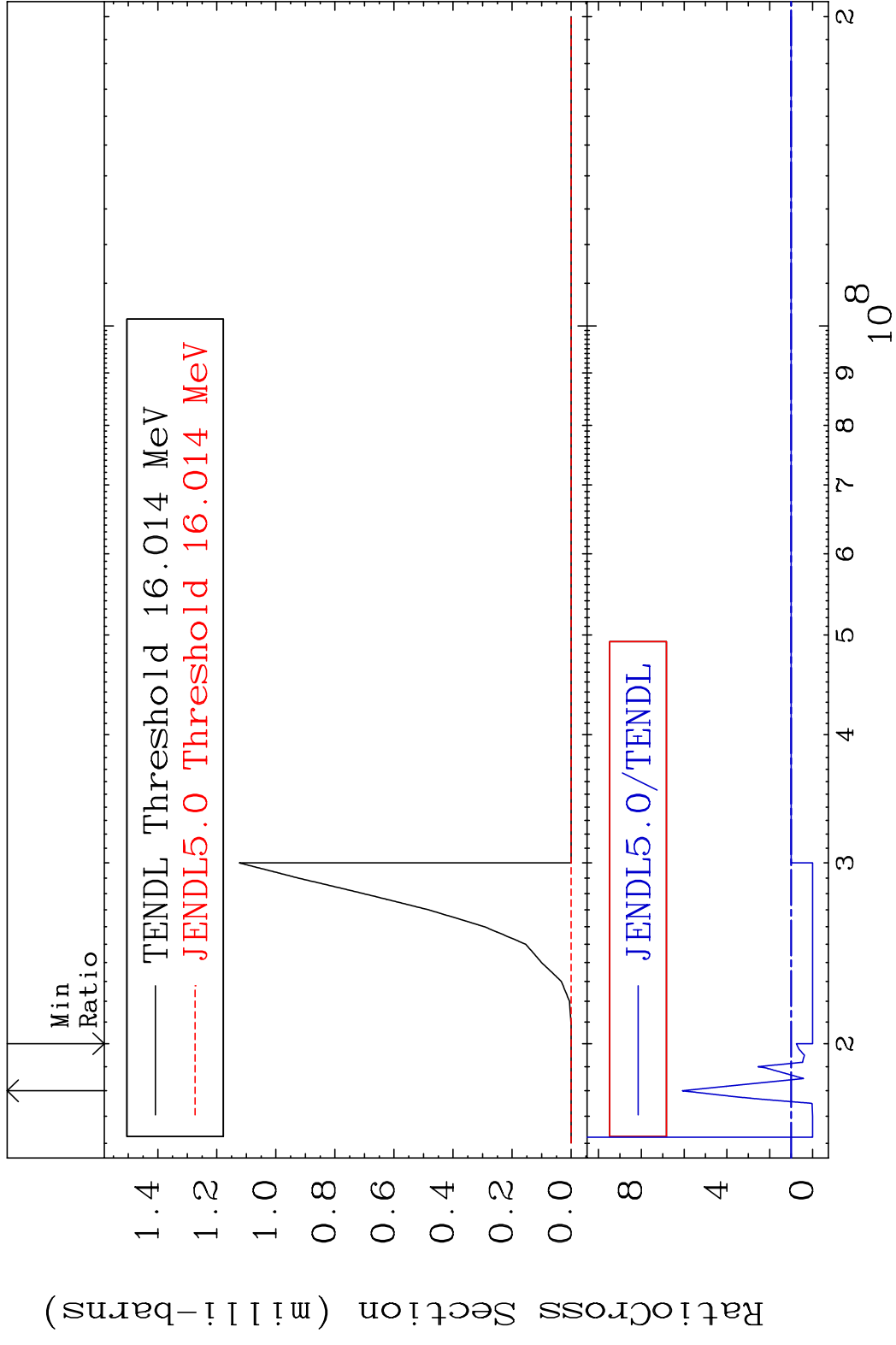


MAT 2040

(n, He-3)

20-Ca-45

Cross Section -100.0 To 508.3 %

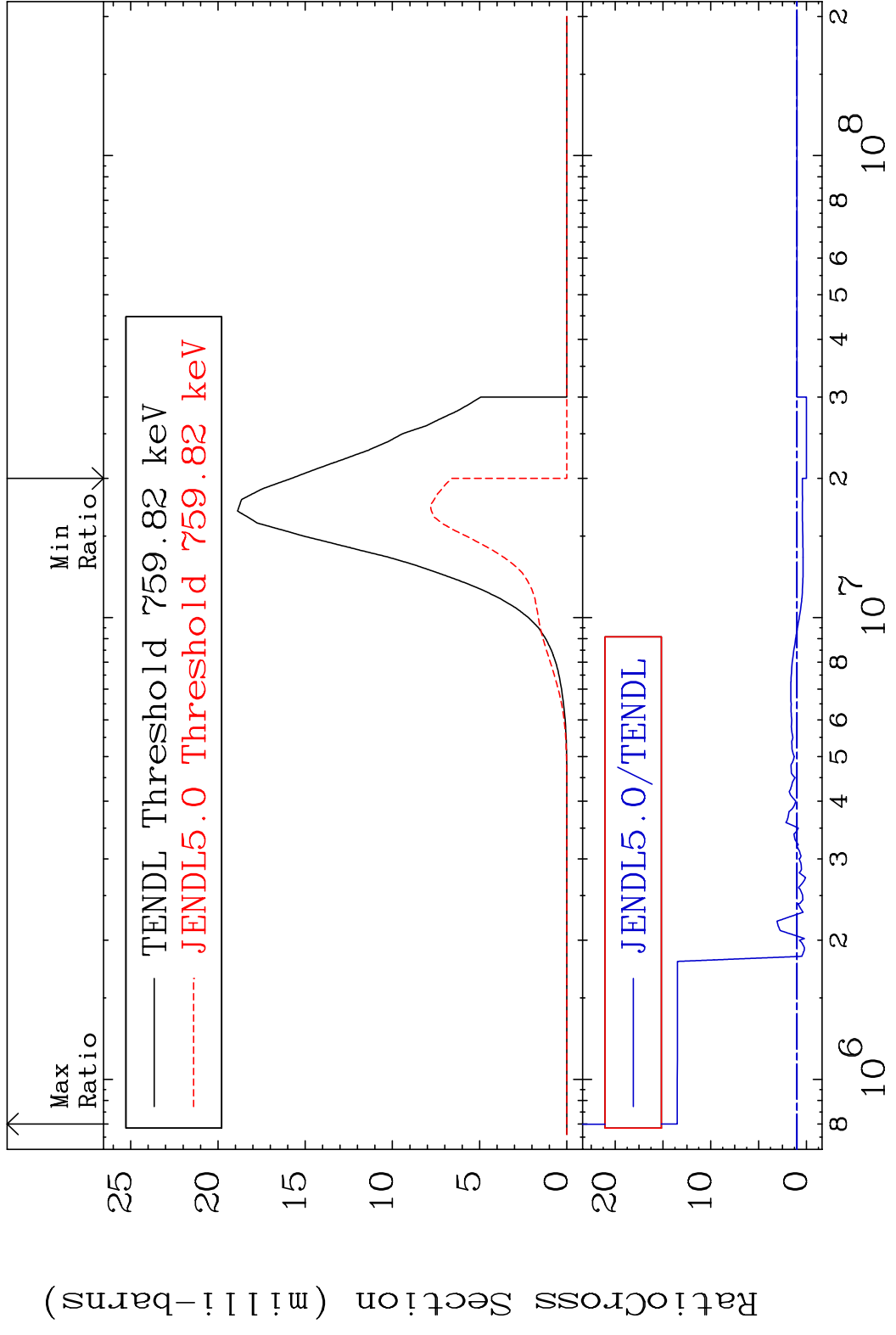


40

Incident Energy (eV)

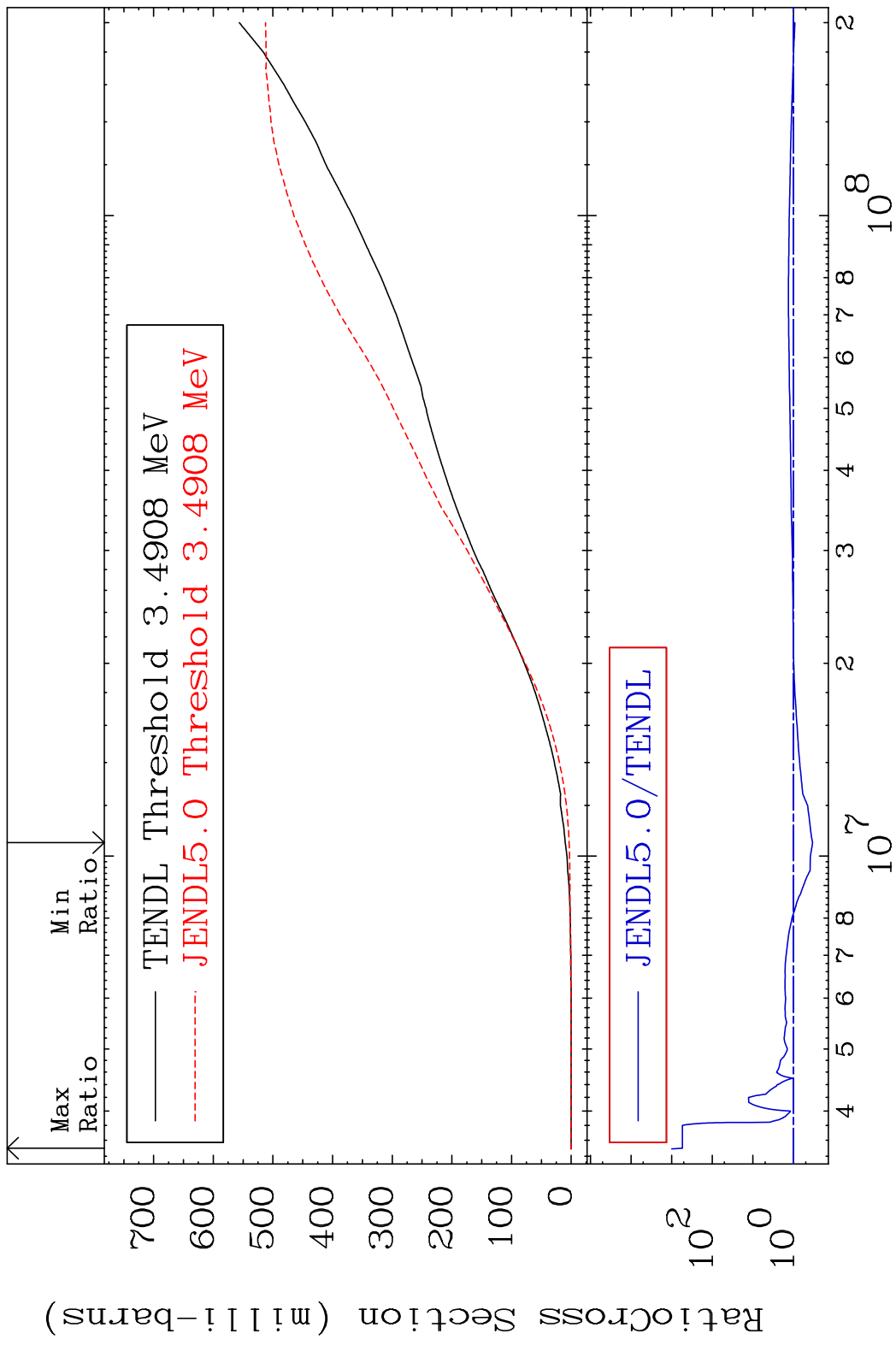
20-Ca-45

MAT 2040 (n,  $\alpha$ ) 20-Ca-45  
 Cross Section -100.0 To 1251. %

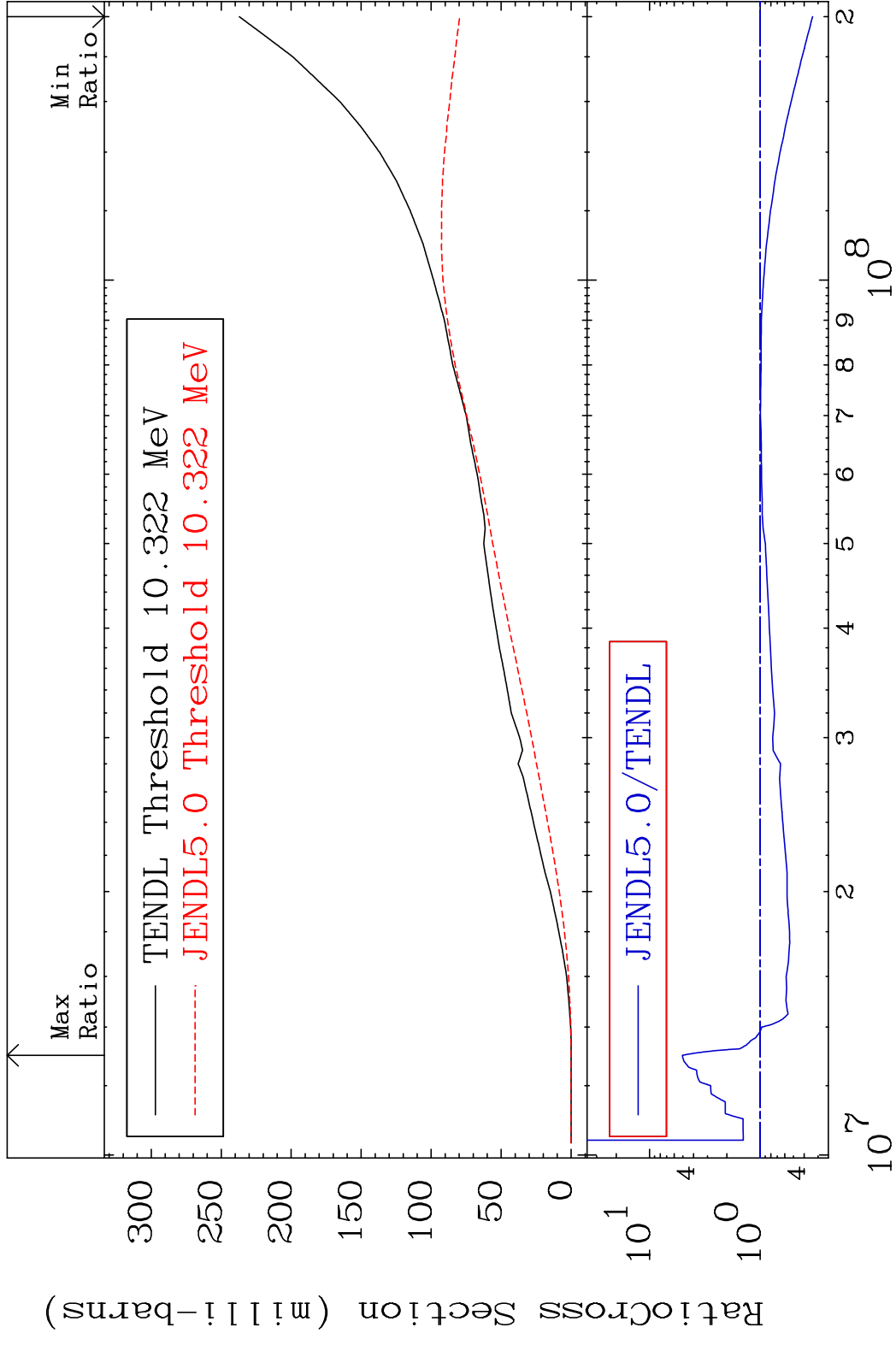


41 Incident Energy (eV) 20-Ca-45

MAT 2040 Hydrogen Production 20-Ca-45  
 Cross Section -66.18 To 9999. %

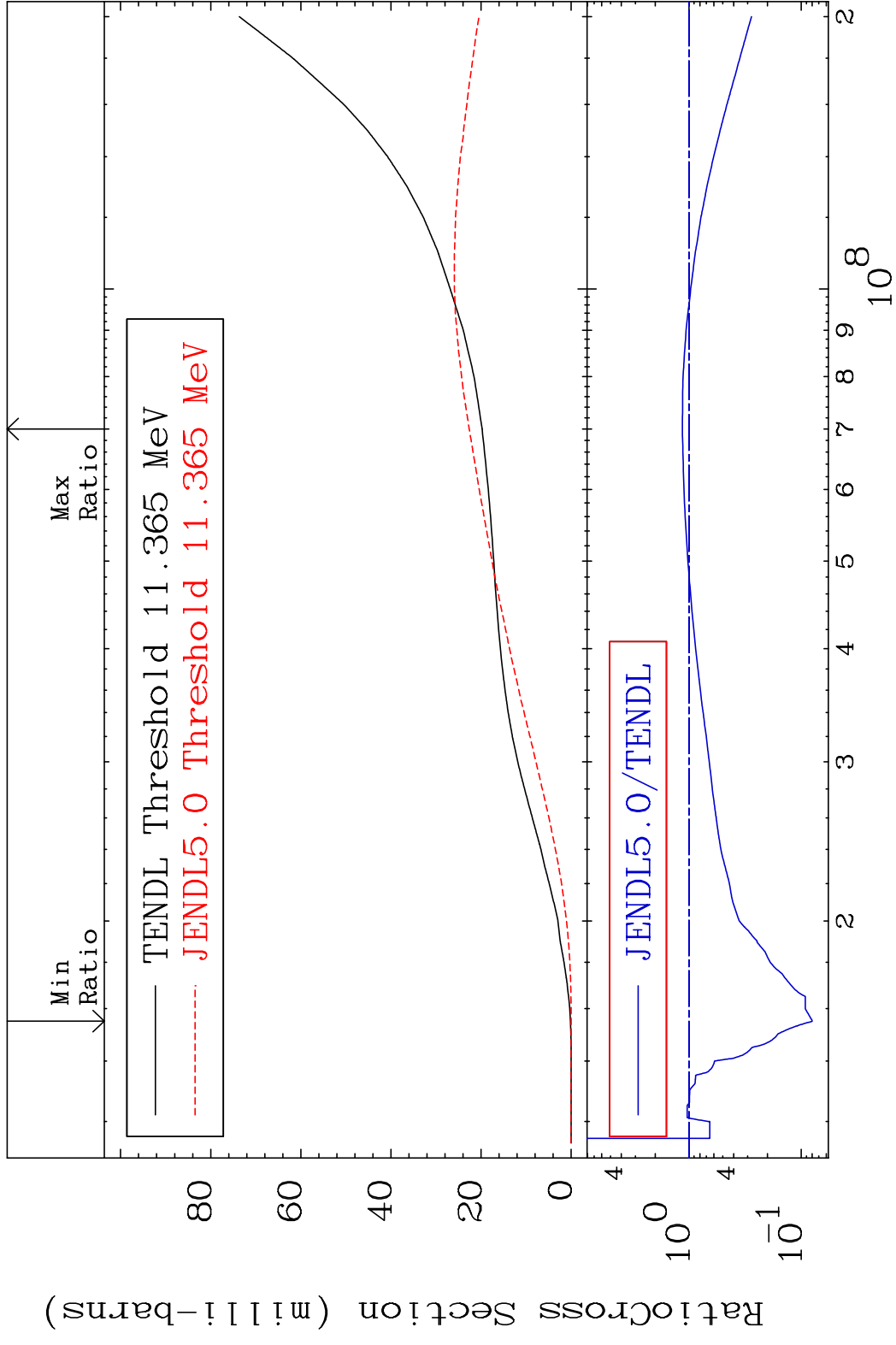


MAT 2040 Deuterium Production 20-Ca-45  
 Cross Section -66.41 To 404.9 %

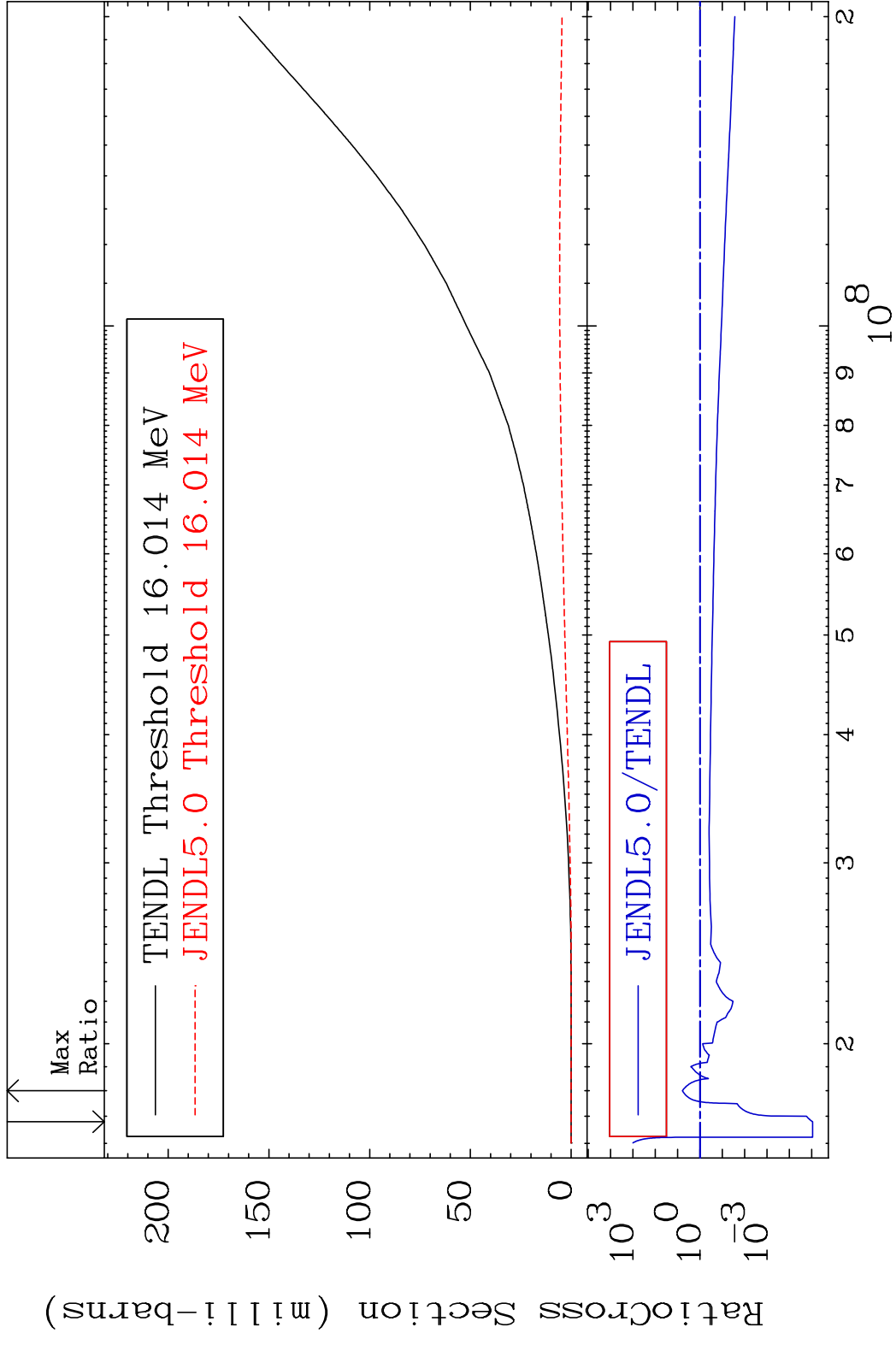


43 Incident Energy (eV) 20-Ca-45

MAT 2040 Tritium Production 20-Ca-45  
 Cross Section -92.06 To 14.50 %

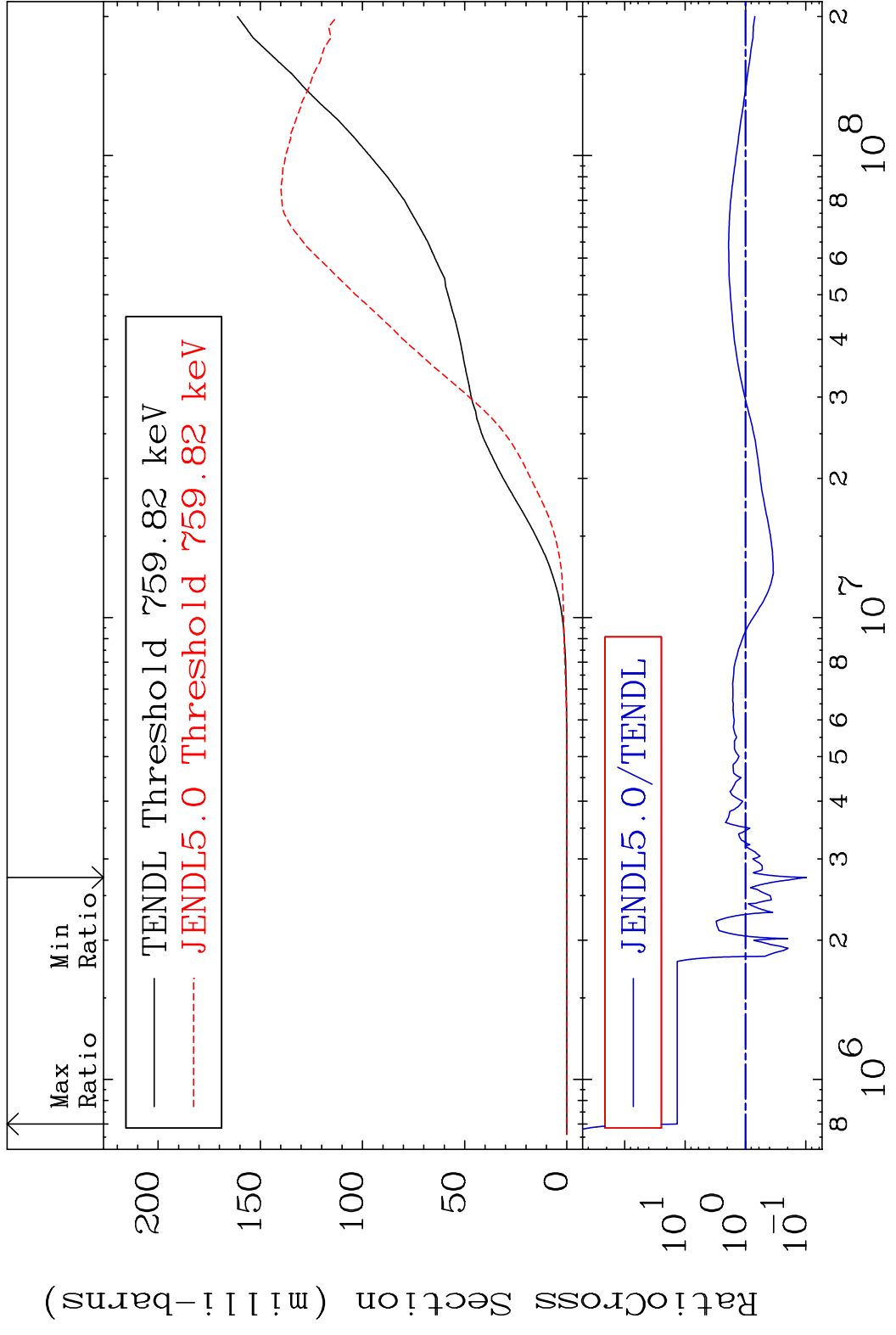


MAT 2040 He-3 Production 20-Ca-45  
 Cross Section -100.0 To 508.3 %

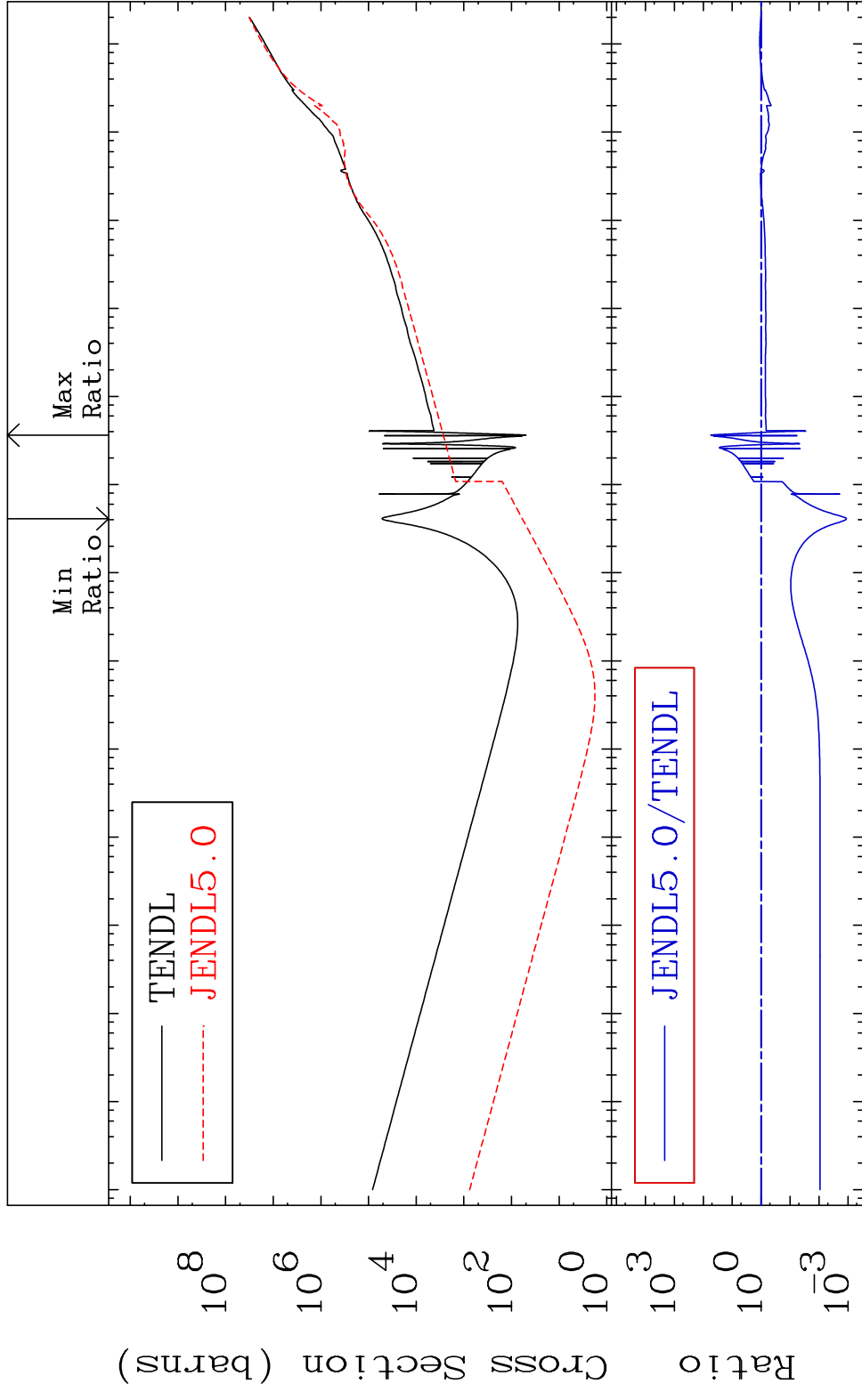


45 20-Ca-45

MAT 2040 He-4 Production 20-Ca-45  
 Cross Section -90.21 To 1251. %



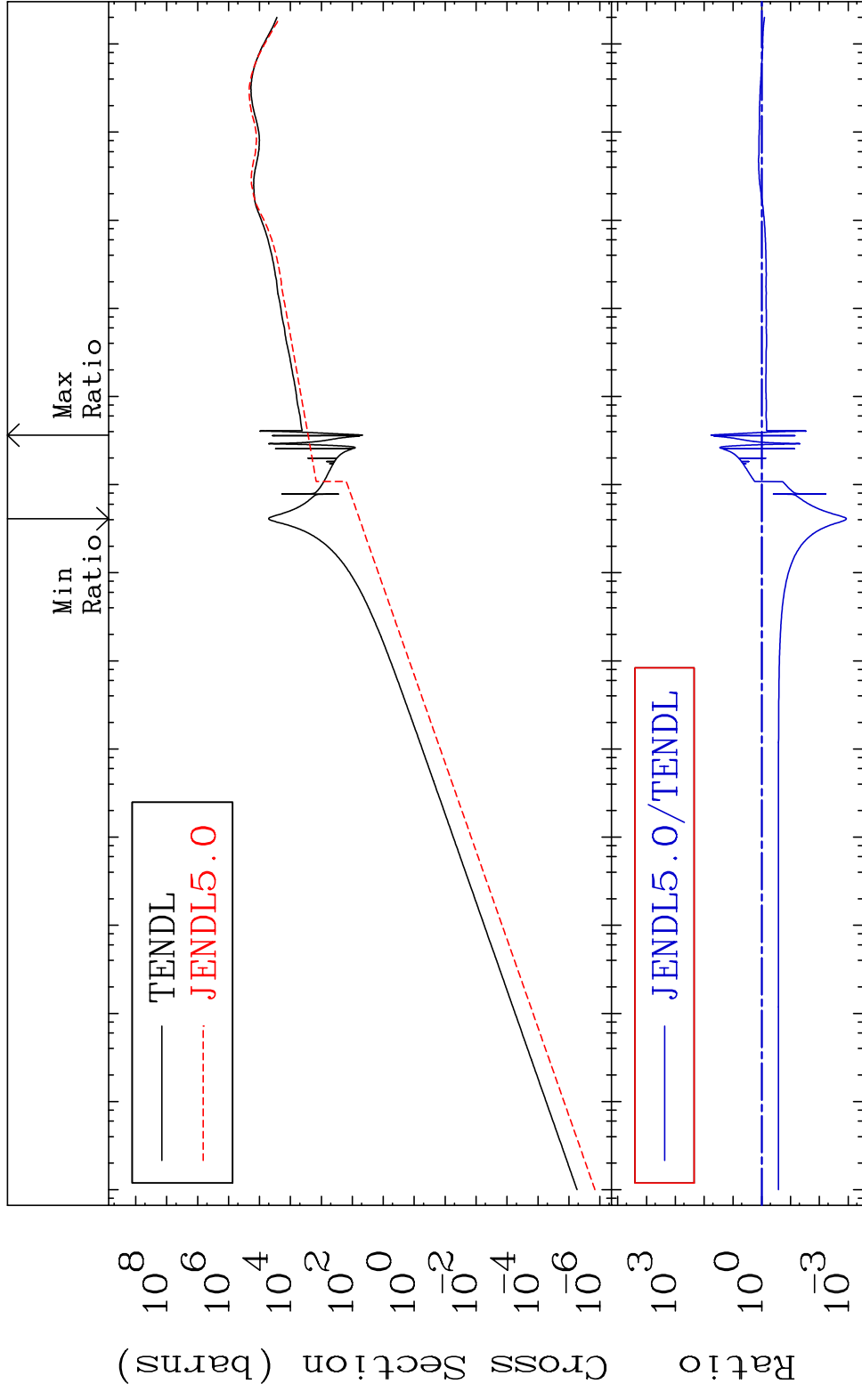
MAT 2040 Kerma total (eV-barns) 20-Ca-45  
 Cross Section -99.89 To 5438. %



47 Incident Energy (eV) 20-Ca-45

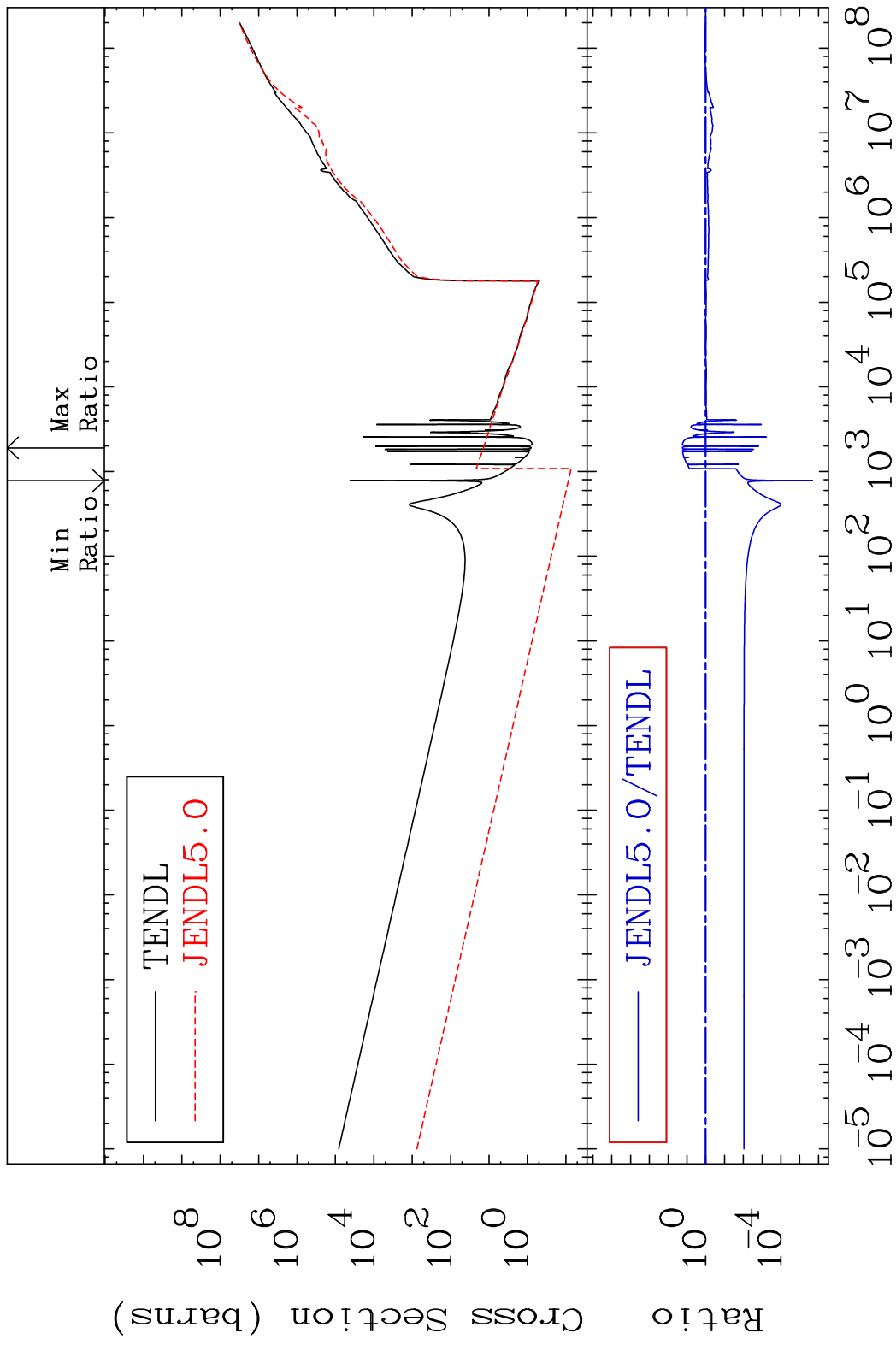


MAT 2040 Kerma elastic Cross Section -99.88 To 5822. % 20-Ca-45



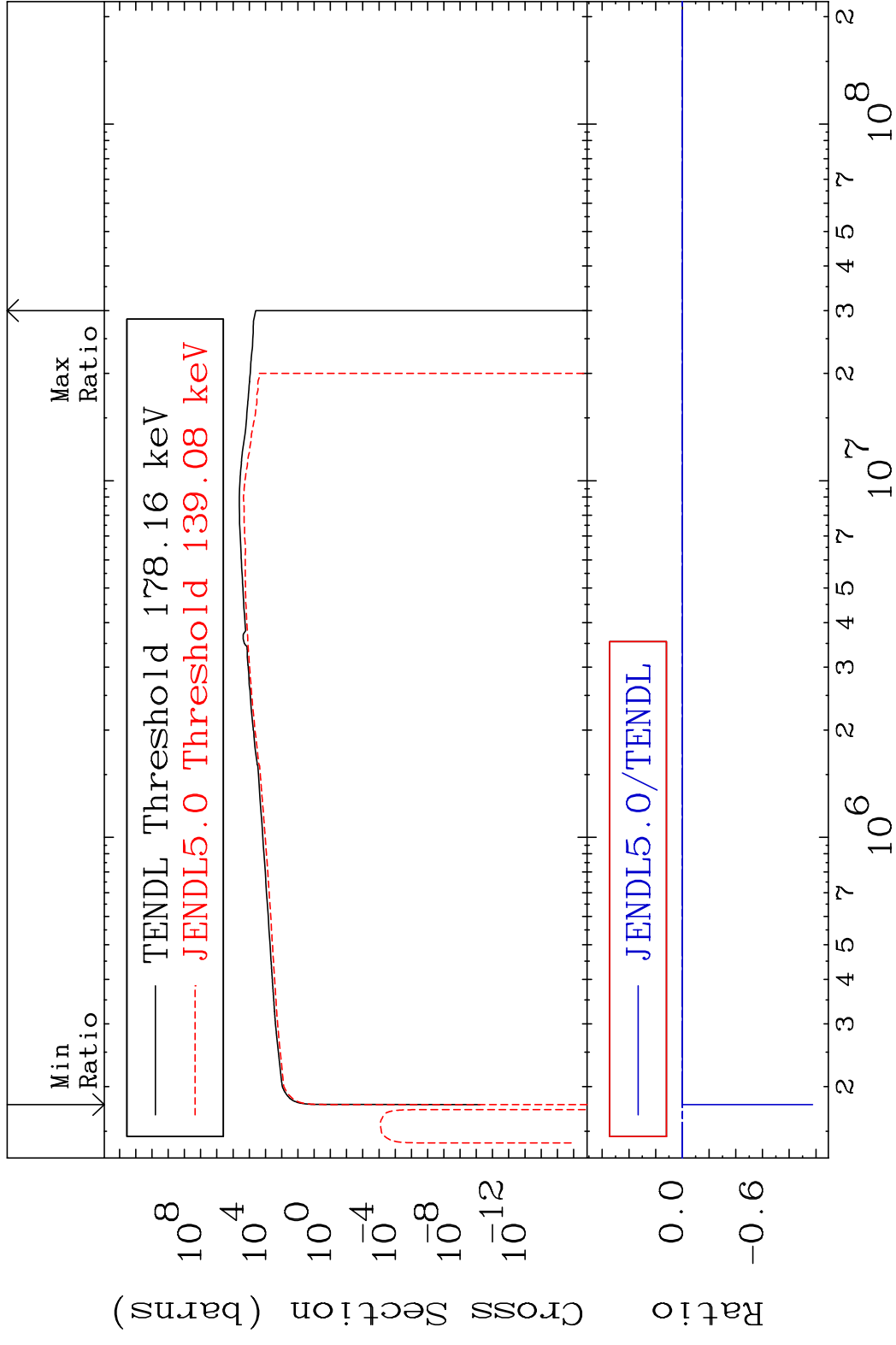
48 Incident Energy (eV) 20-Ca-45

MAT 2040 Kerma non-elastic (all but mt2) 20-Ca-45  
 Cross Section -100.0 To 1656. %

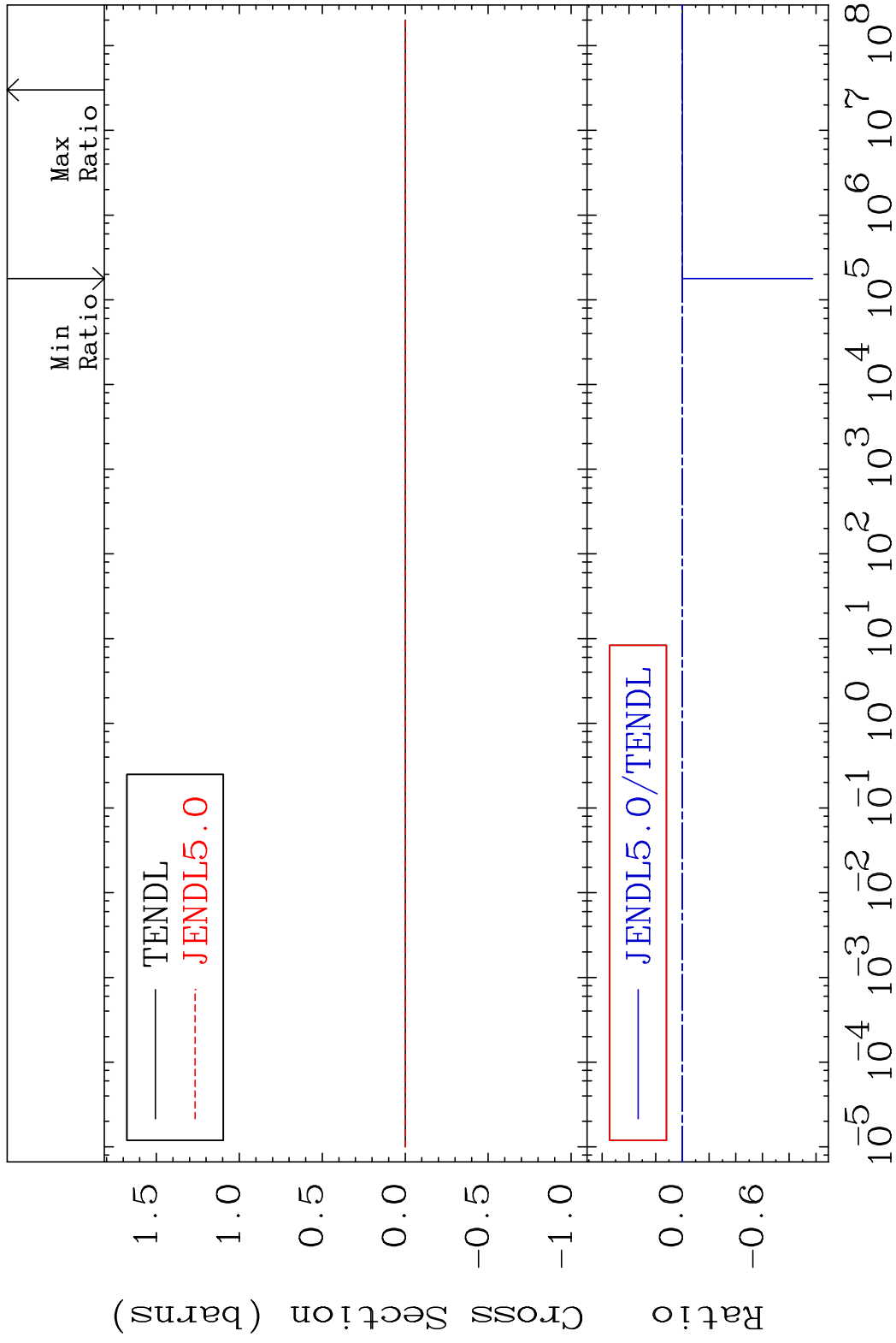


49 Incident Energy (eV) 20-Ca-45

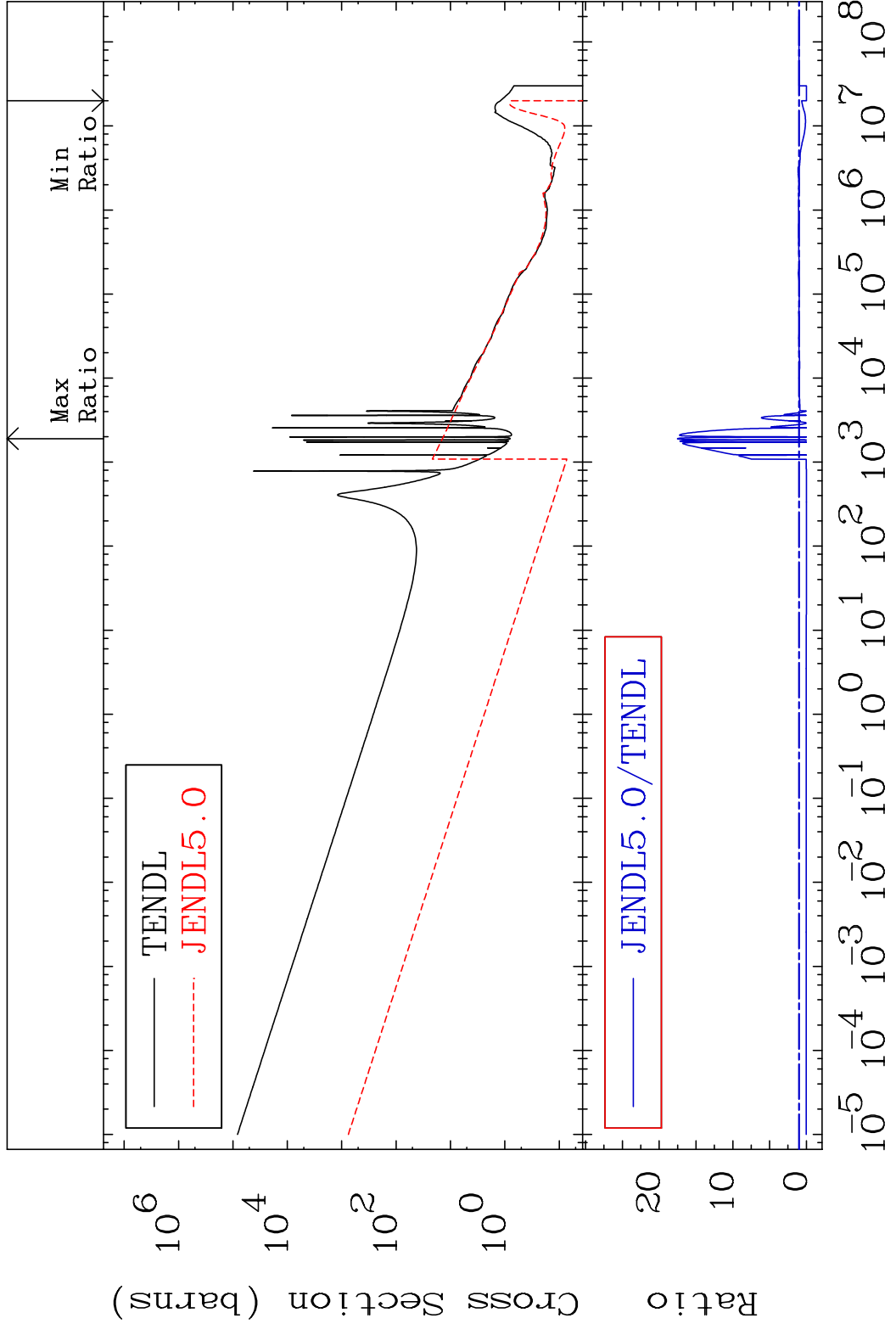
MAT 2040 Kerma inelastic (mt51-91) 20-Ca-45  
 Cross Section -9999. To 0.000 %



MAT 2040 Kerma fission (mt18 or mt19-20-21-38) 20-Ca-45  
 Cross Section -9999. To 0.000 %

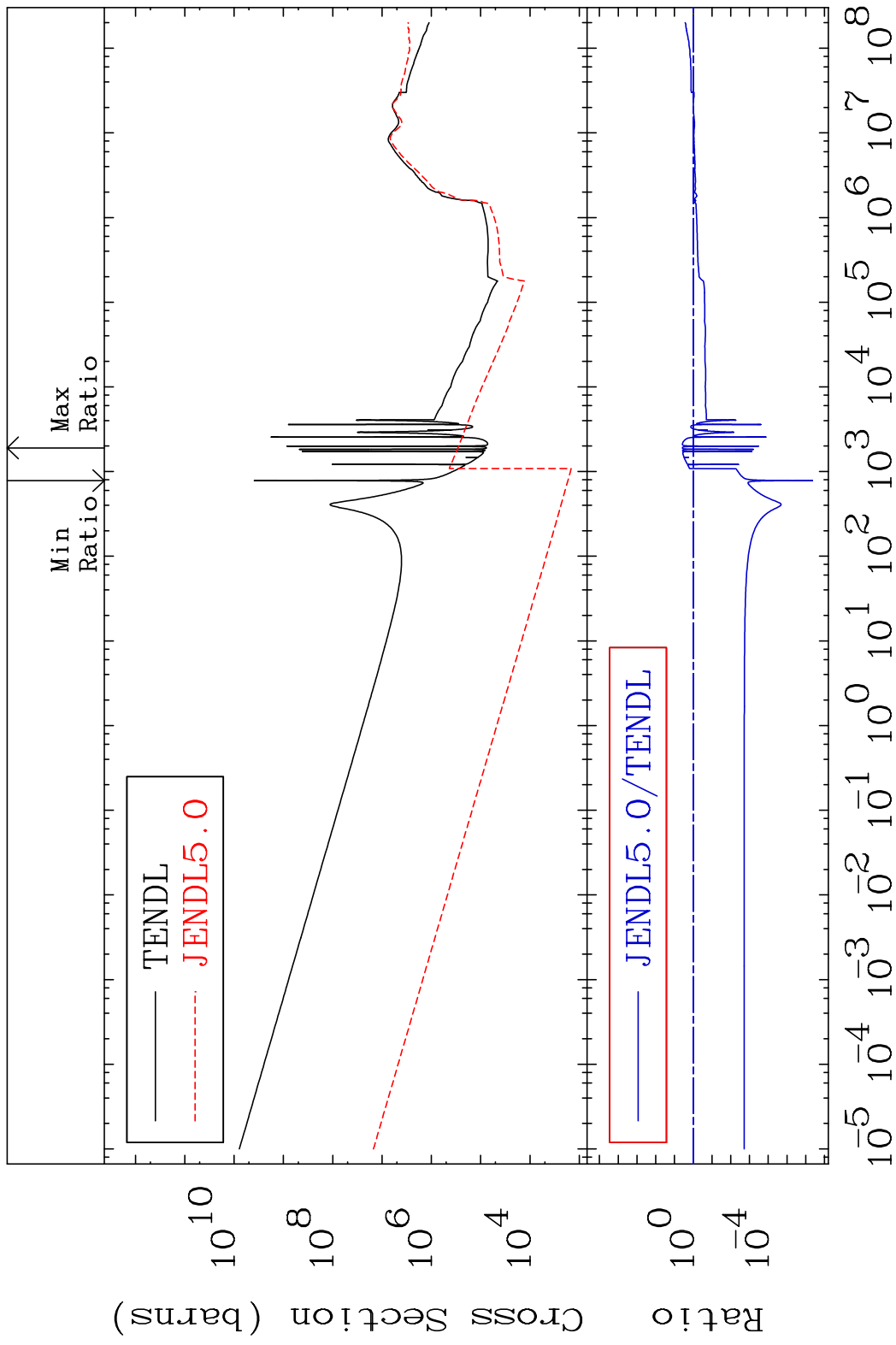


MAT 2040 Kerma capture (mt102) 20-Ca-45  
 Cross Section -100.0 To 1656. %

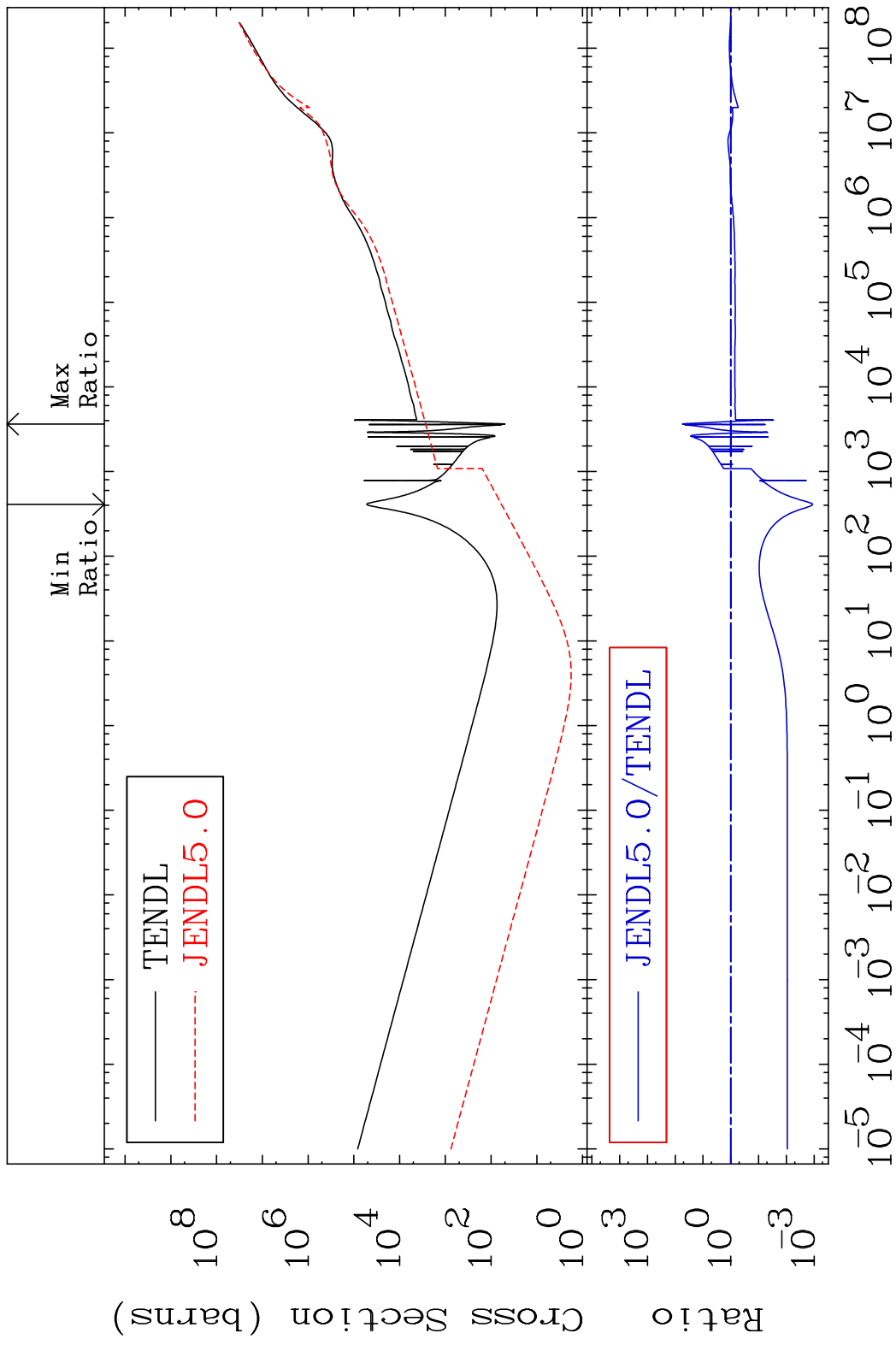


52 Incident Energy (eV) 20-Ca-45

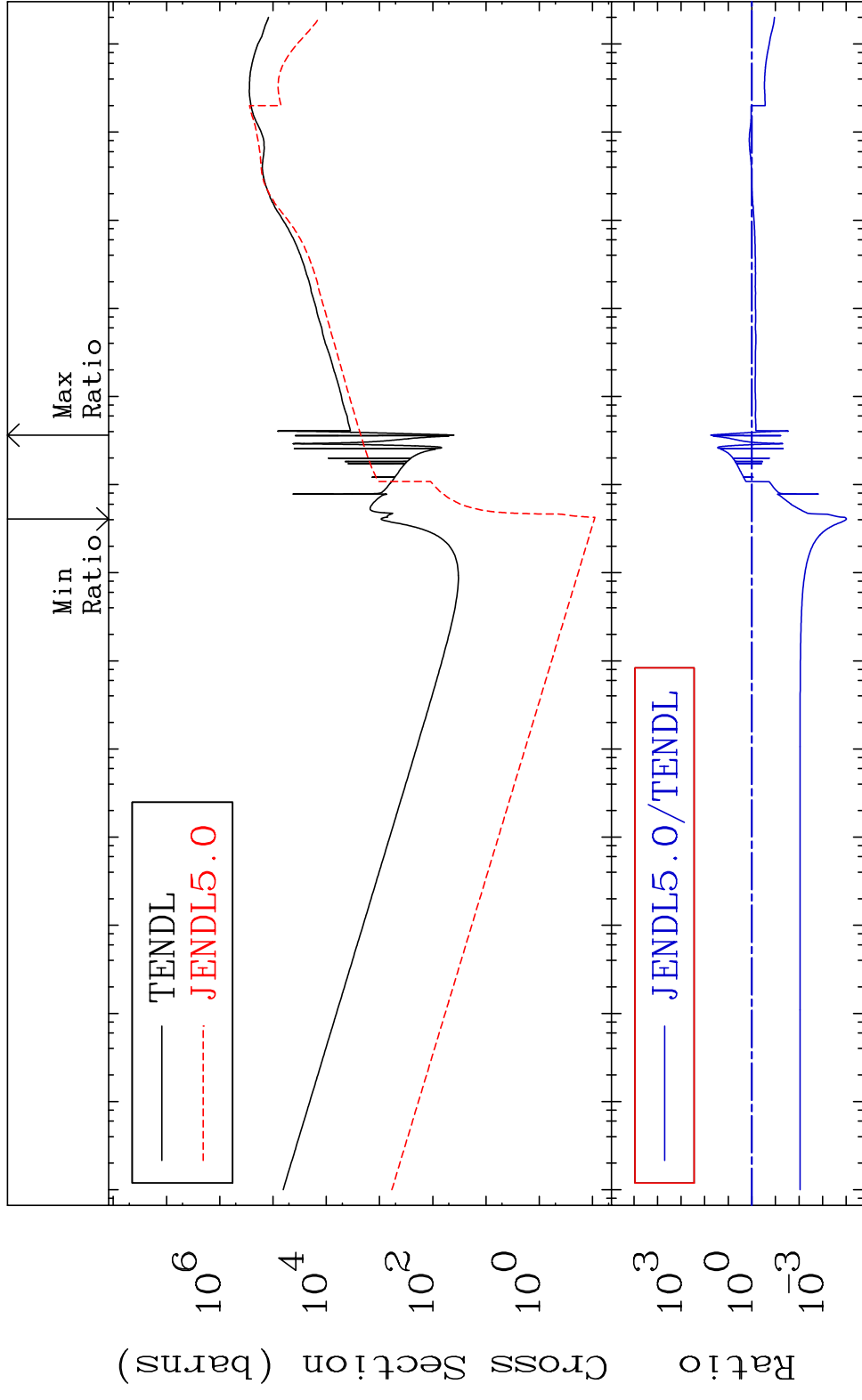
MAT 2040 Total photon (eV-barns) 20-Ca-45  
 Cross Section -100.0 To 280.5 %



MAT 2040 Total kinematic kerma (high limit) 20-Ca-45  
 Cross Section -99.89 To 5438. %



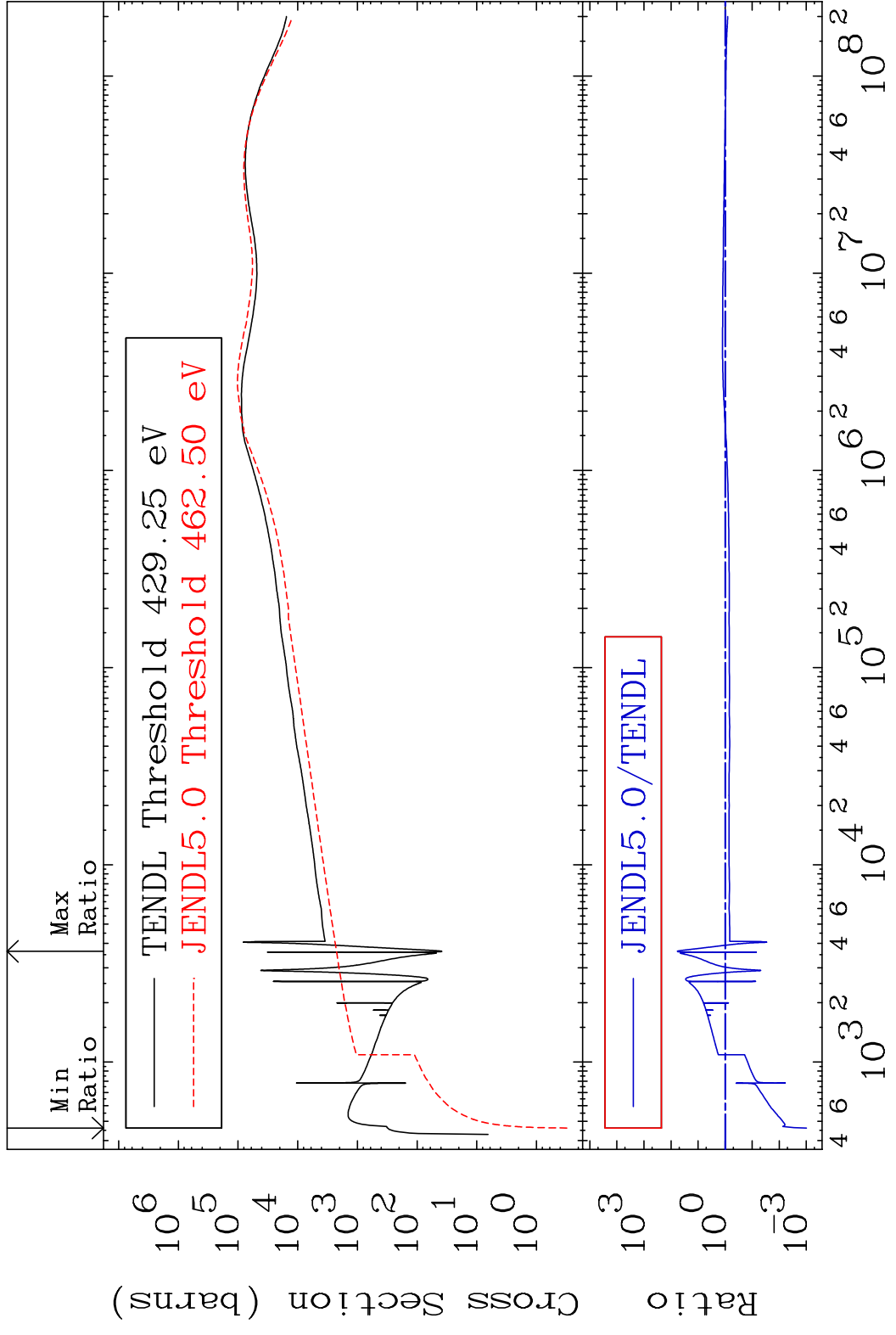
MAT 2040 Dpa total (eV-barns) 20-Ca-45  
 Cross Section -99.99 To 5453. %



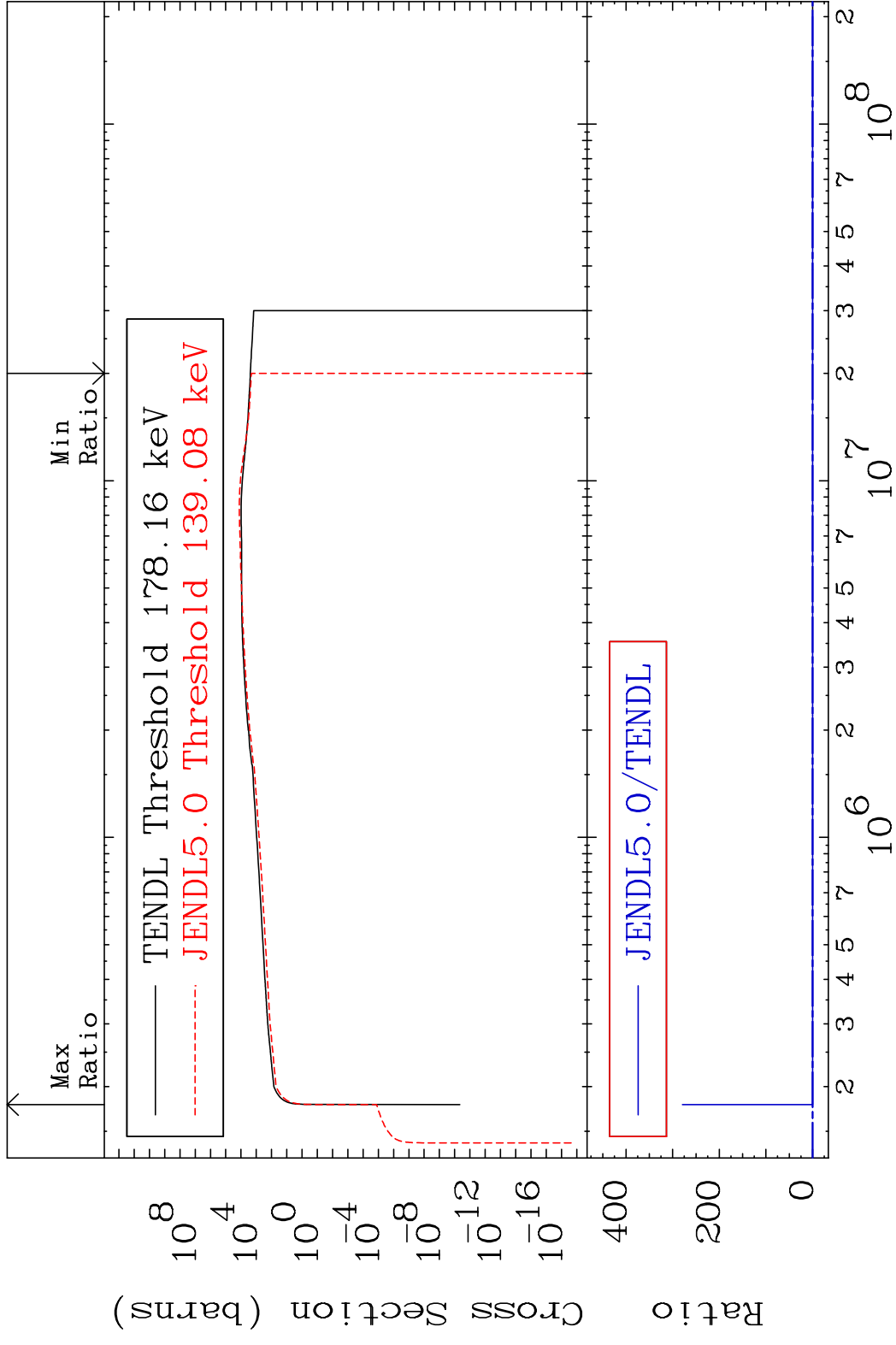
55 Incident Energy (eV) 20-Ca-45



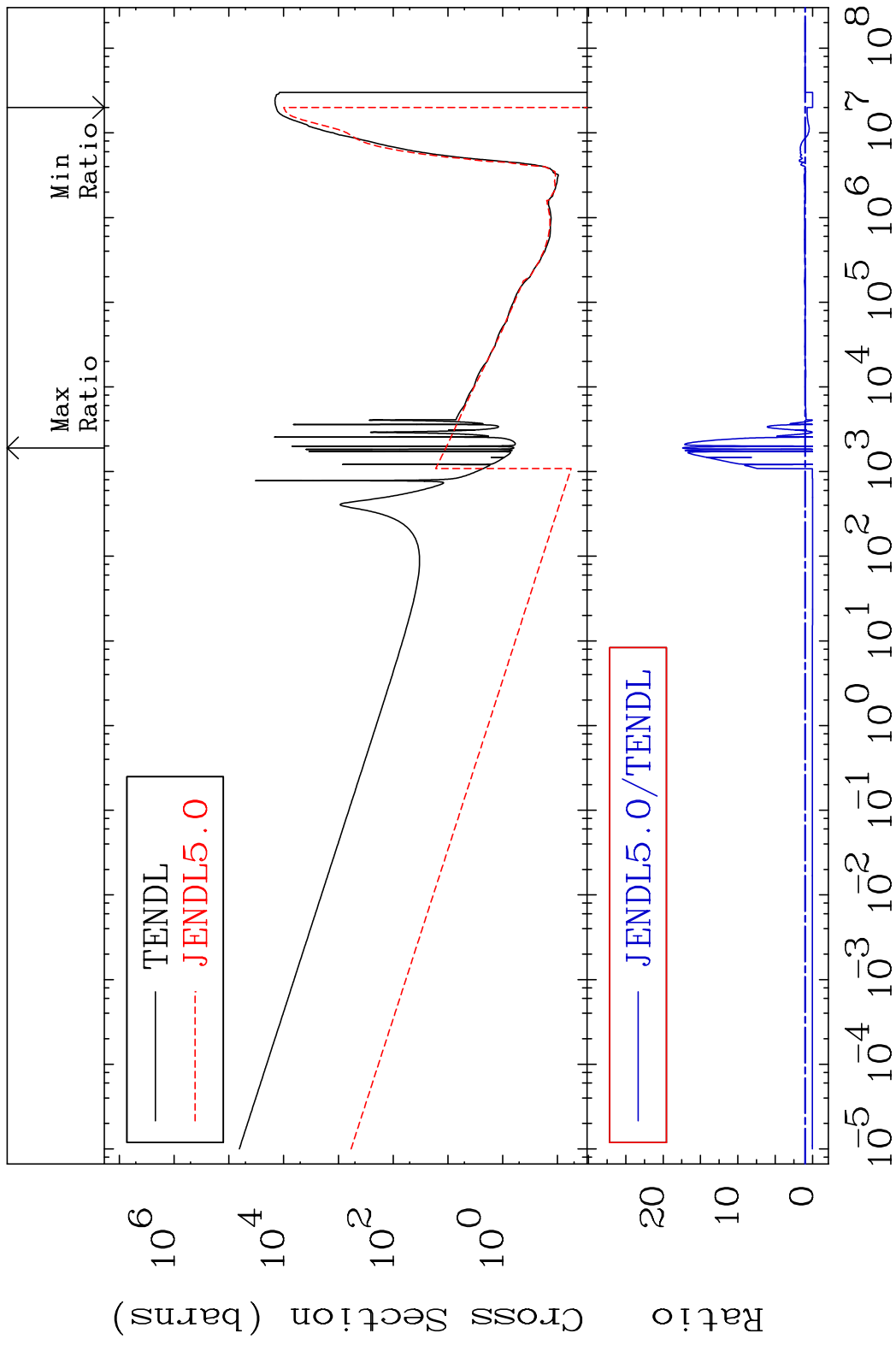
MAT 2040 Dpa elastic (mt2) 20-Ca-45  
 Cross Section -99.90 To 5815. %



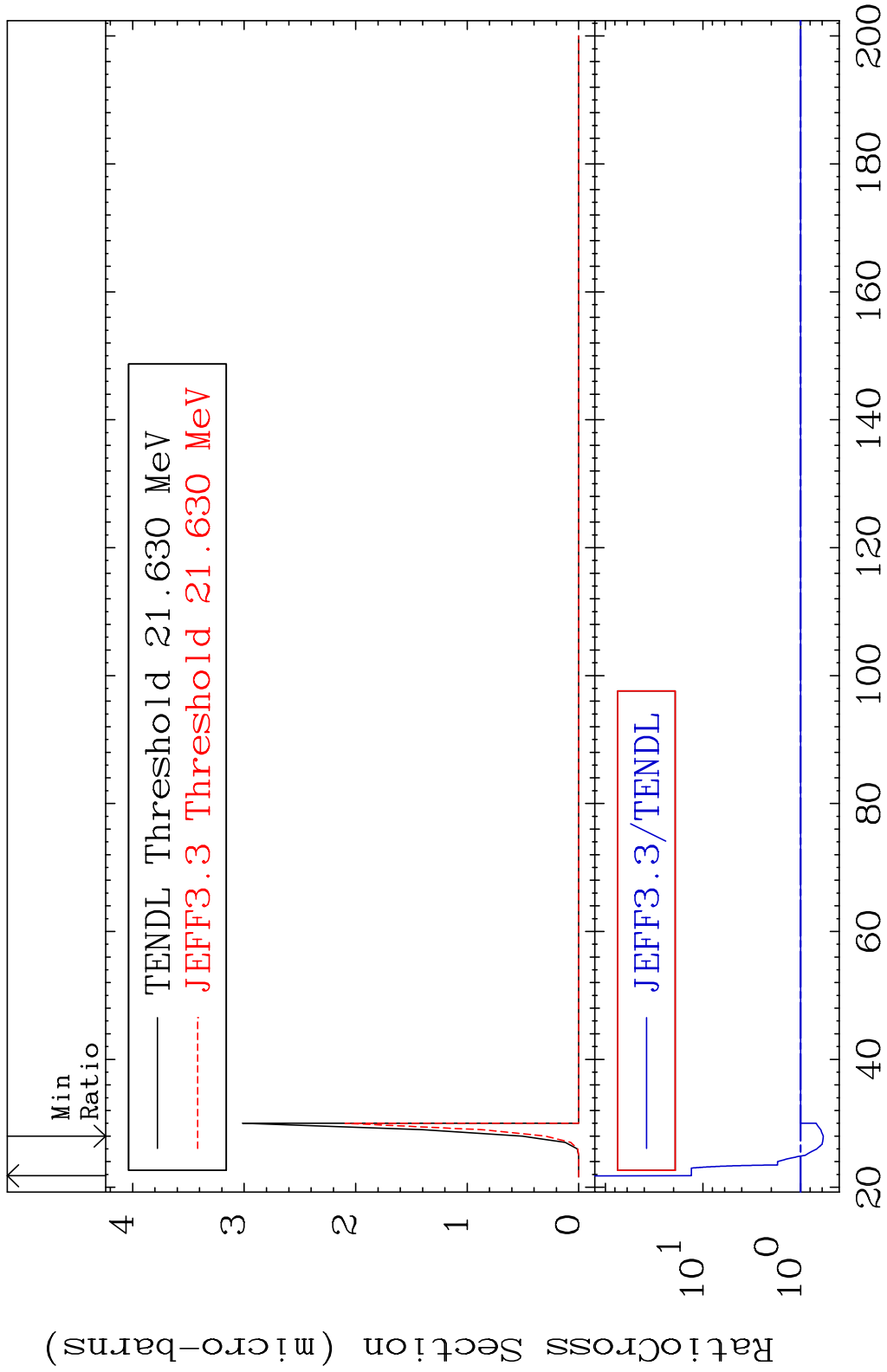
MAT 2040 Dpa inelastic (mt51-91) 20-Ca-45  
 Cross Section -100.0 To 9999. %



MAT 2040 Dpa disappearance (mt102 -120) 20-Ca-45  
 Cross Section -100.0 To 1643. %

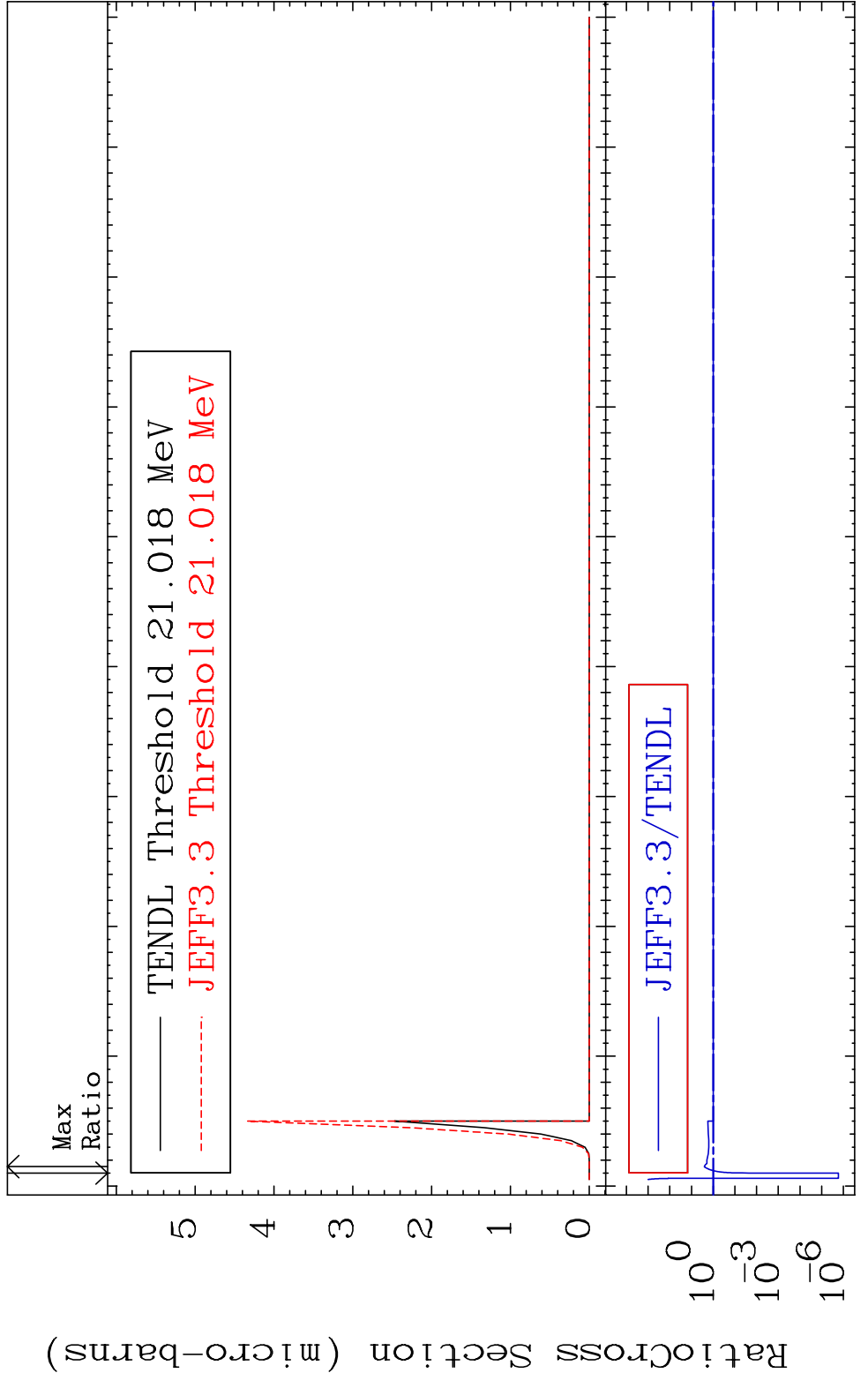


MAT 2040 (n,p) d 20-Ca-45  
 Cross Section -41.40 To 1217. %



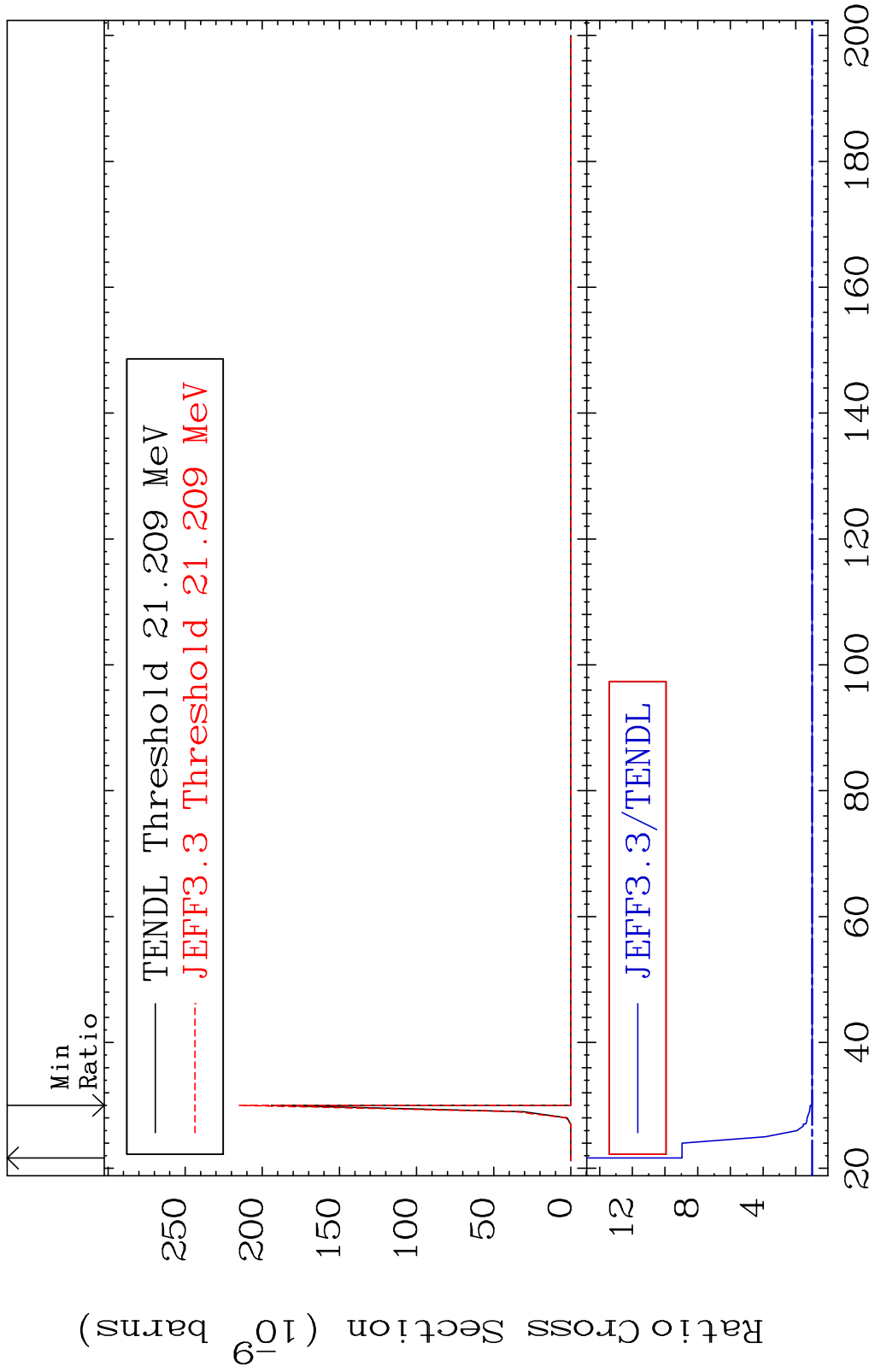
59 Incident Energy (MeV) 20-Ca-45

MAT 2040 (n,p) t 20-Ca-45  
 Cross Section -100.0 To 164.6 %



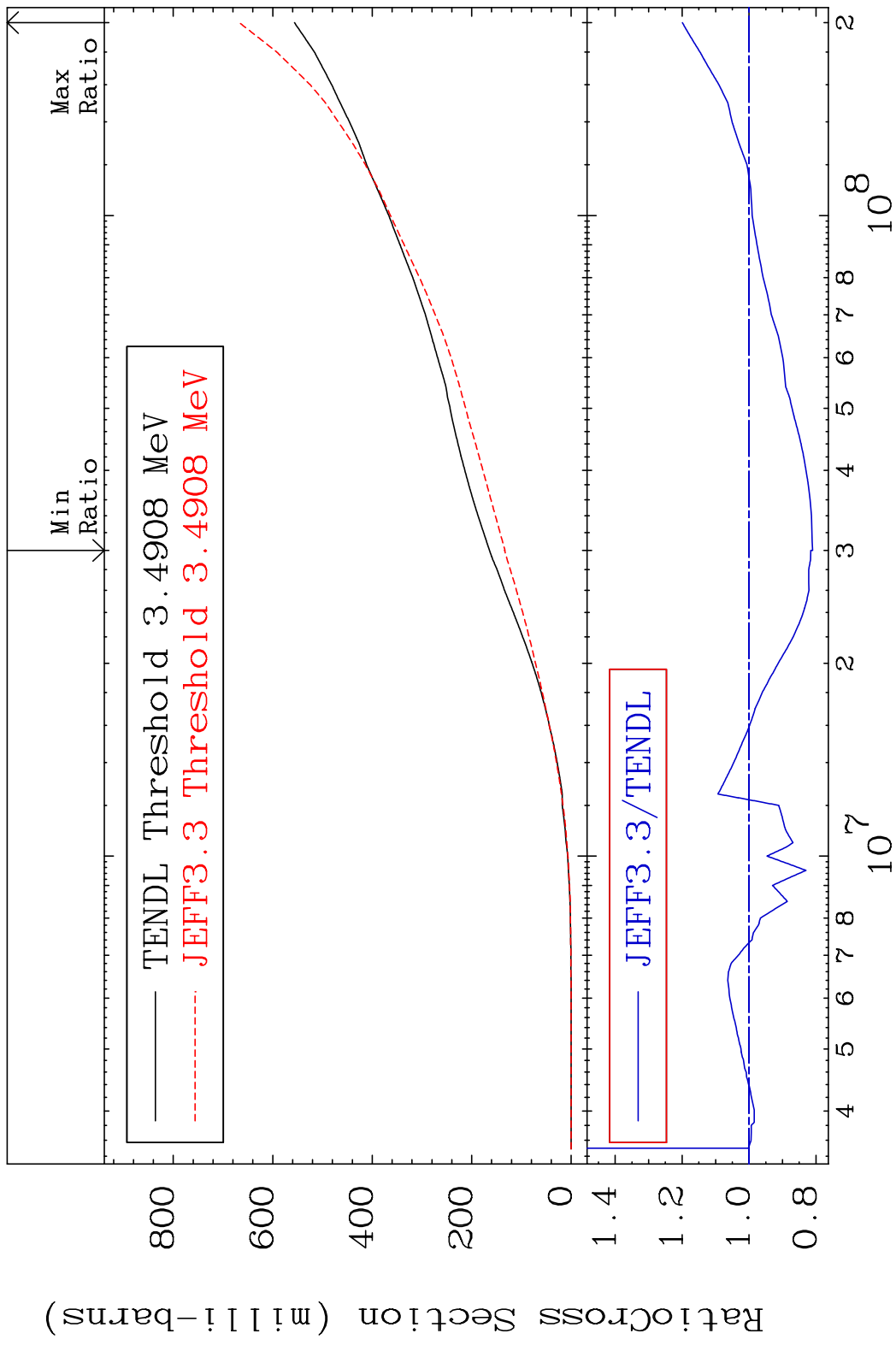
60 Incident Energy (MeV) 20-Ca-45

MAT 2040 (n,d)  $\alpha$  20-Ca-45  
 Cross Section 0.000 To 796.2 %



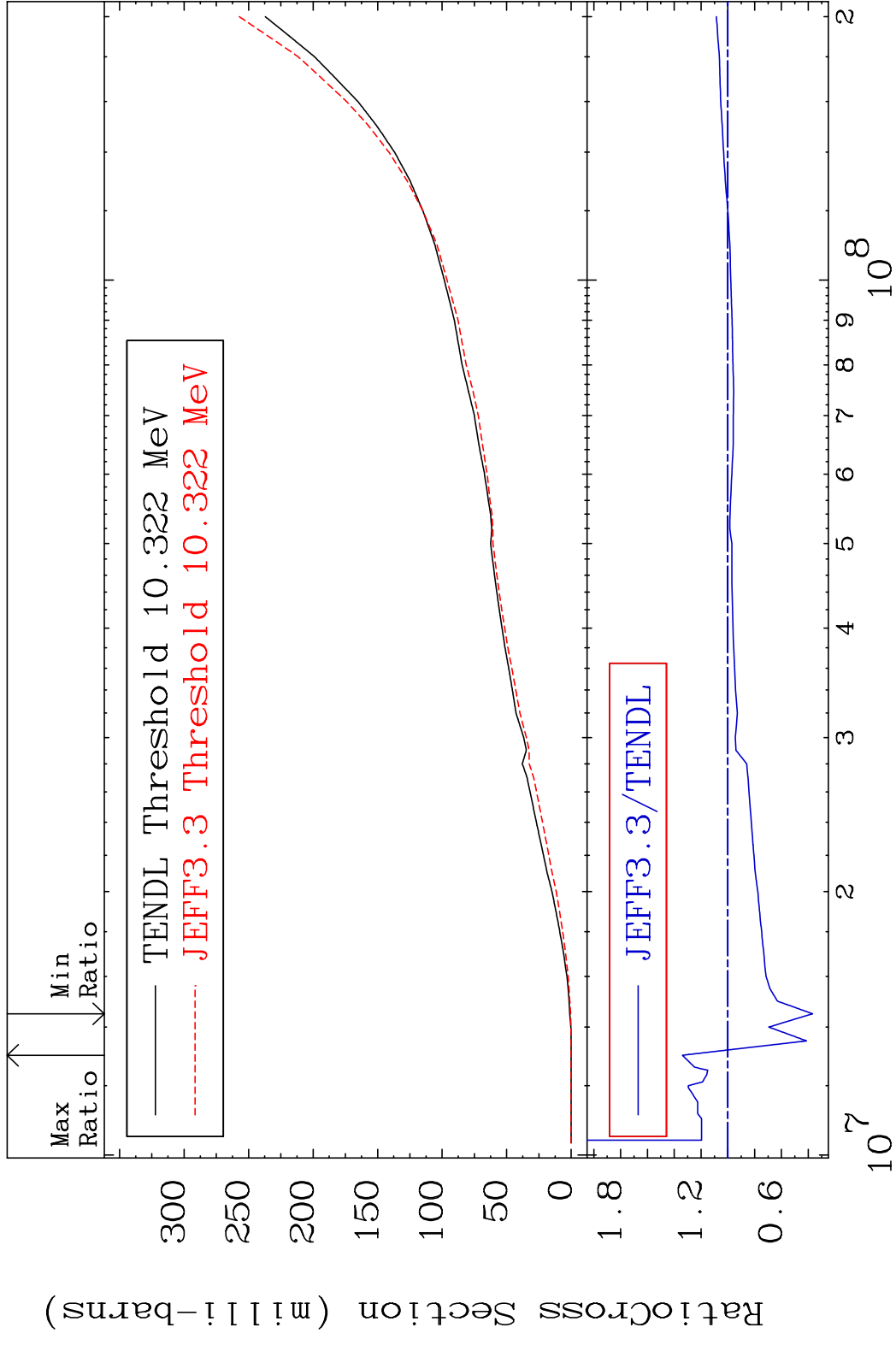
61 Incident Energy (MeV) 20-Ca-45

MAT 2040 Hydrogen Production 20-Ca-45  
 Cross Section -18.98 To 19.93 %



62 Incident Energy (eV) 20-Ca-45

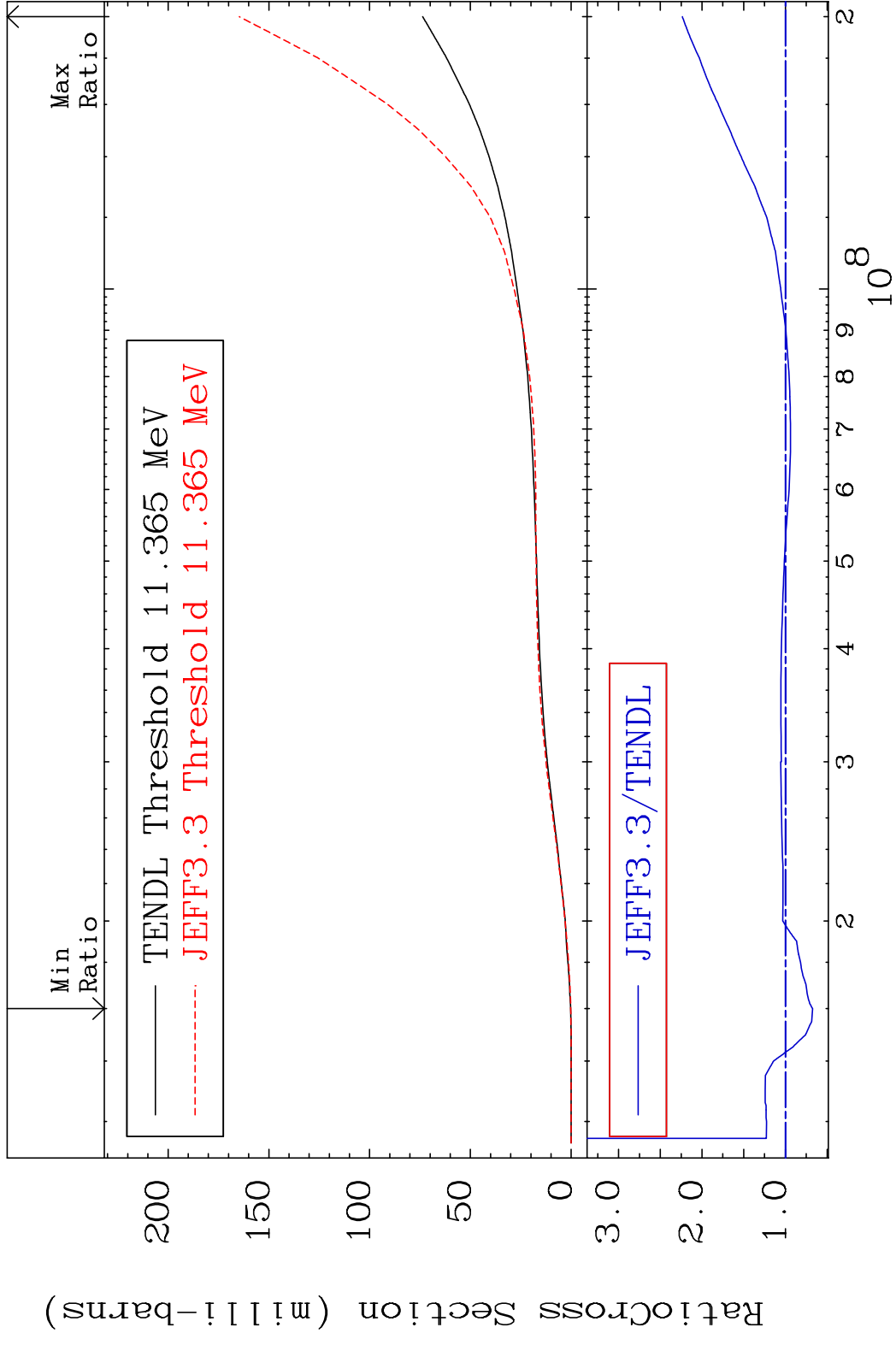
MAT 2040 Deuterium Production 20-Ca-45  
 Cross Section -63.19 To 33.94 %



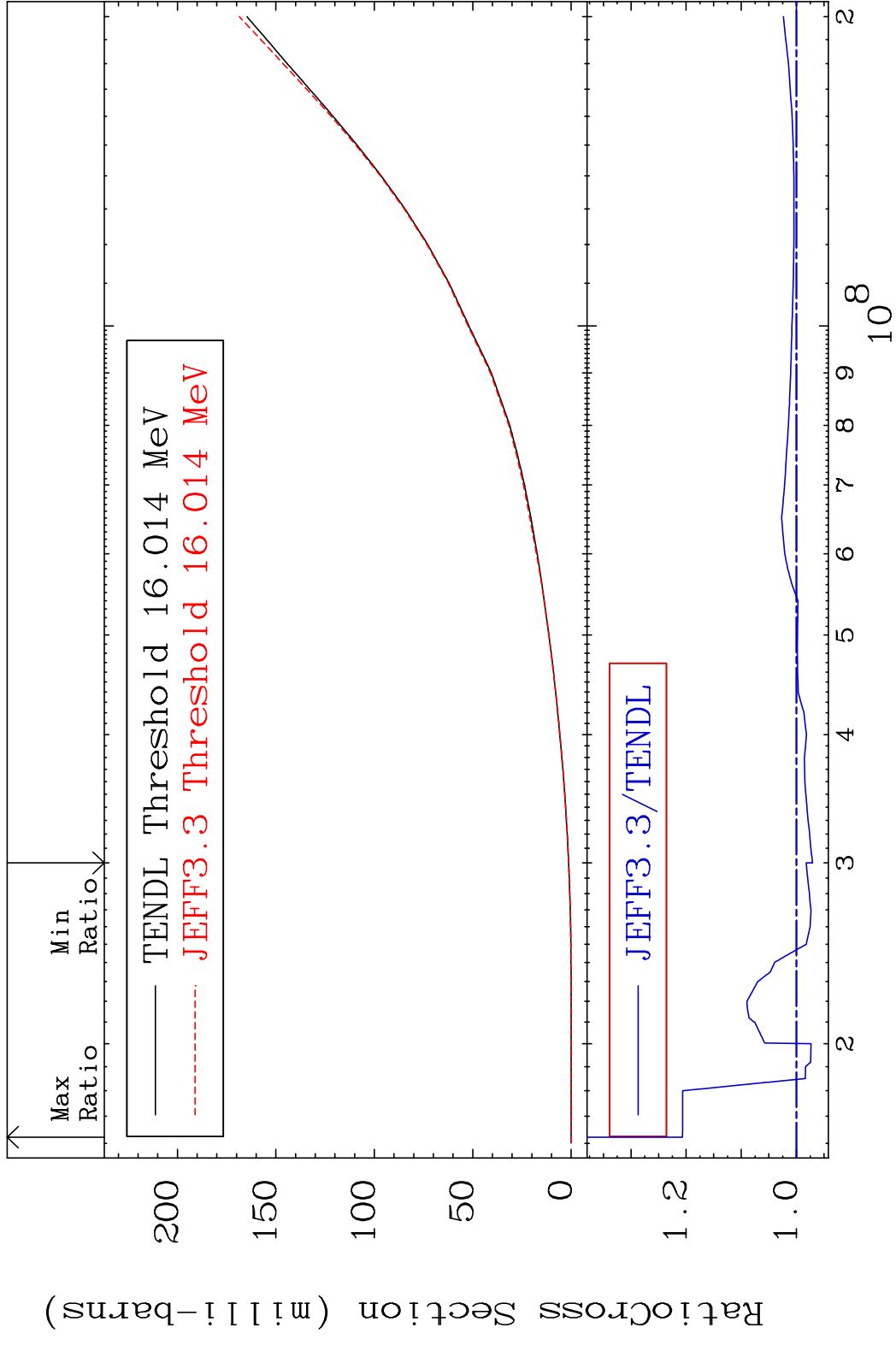
63 20-Ca-45



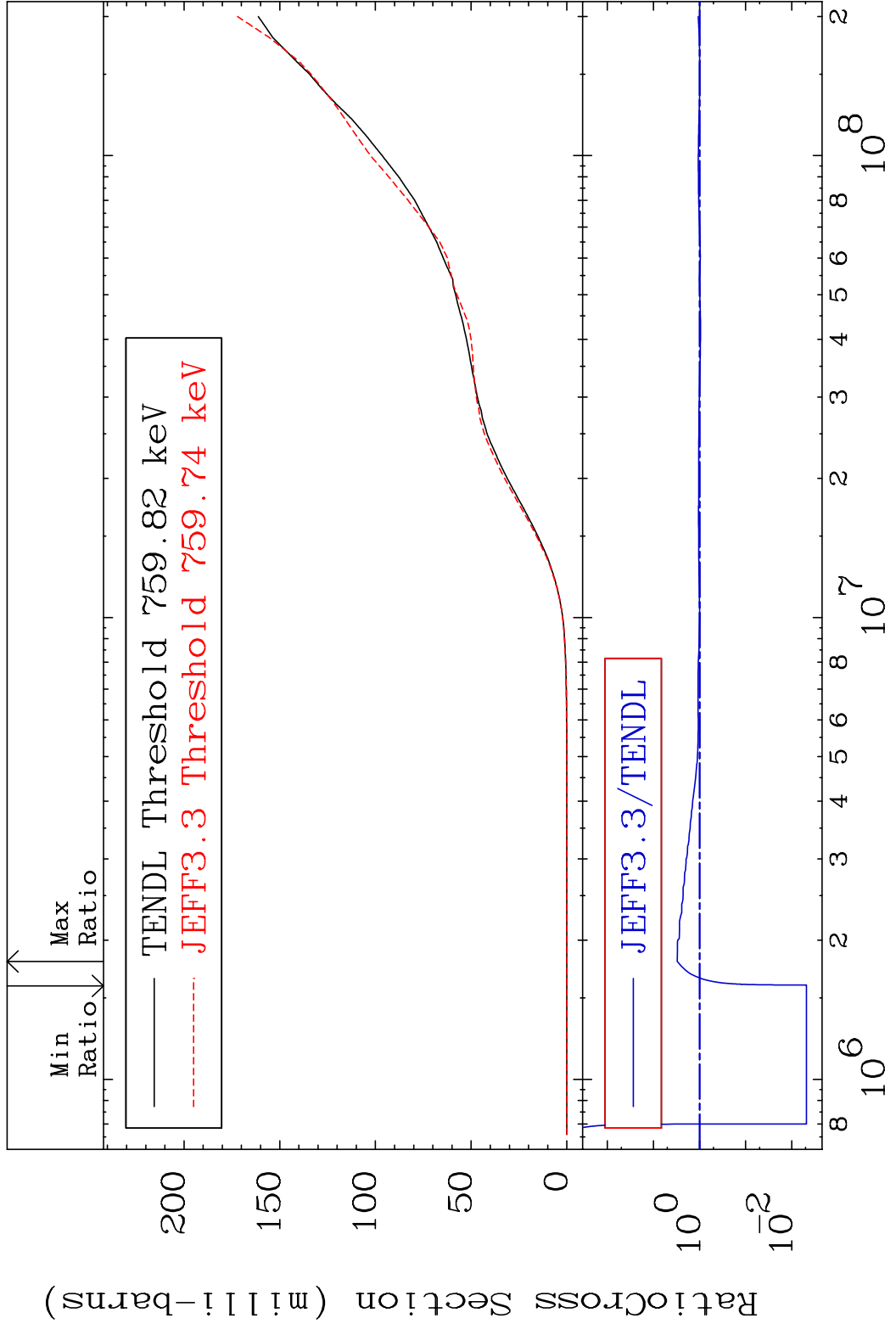
MAT 2040 Tritium Production 20-Ca-45  
 Cross Section -32.56 To 123.6 %



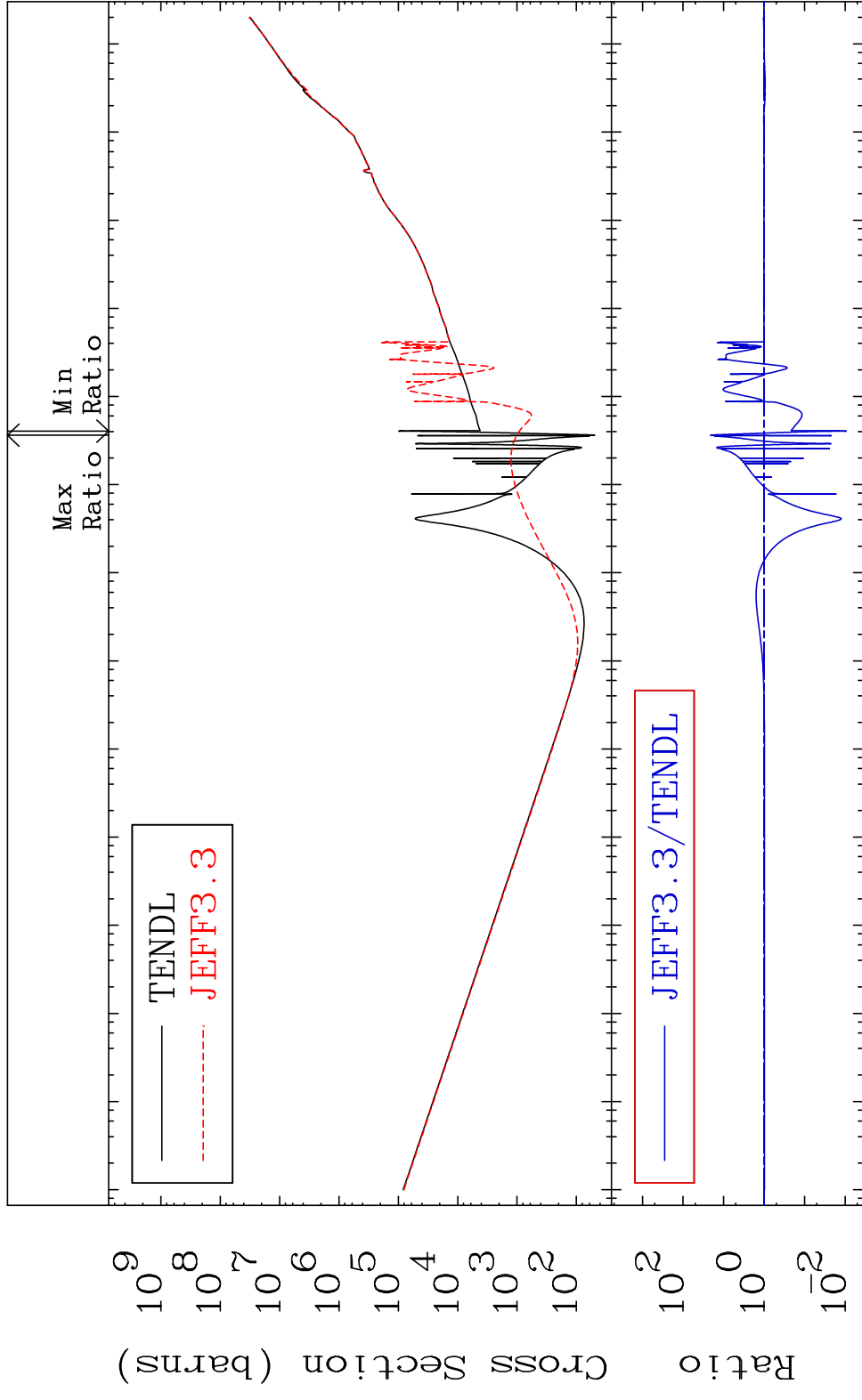
MAT 2040 He-3 Production 20-Ca-45  
 Cross Section -2.916 To 20.69 %



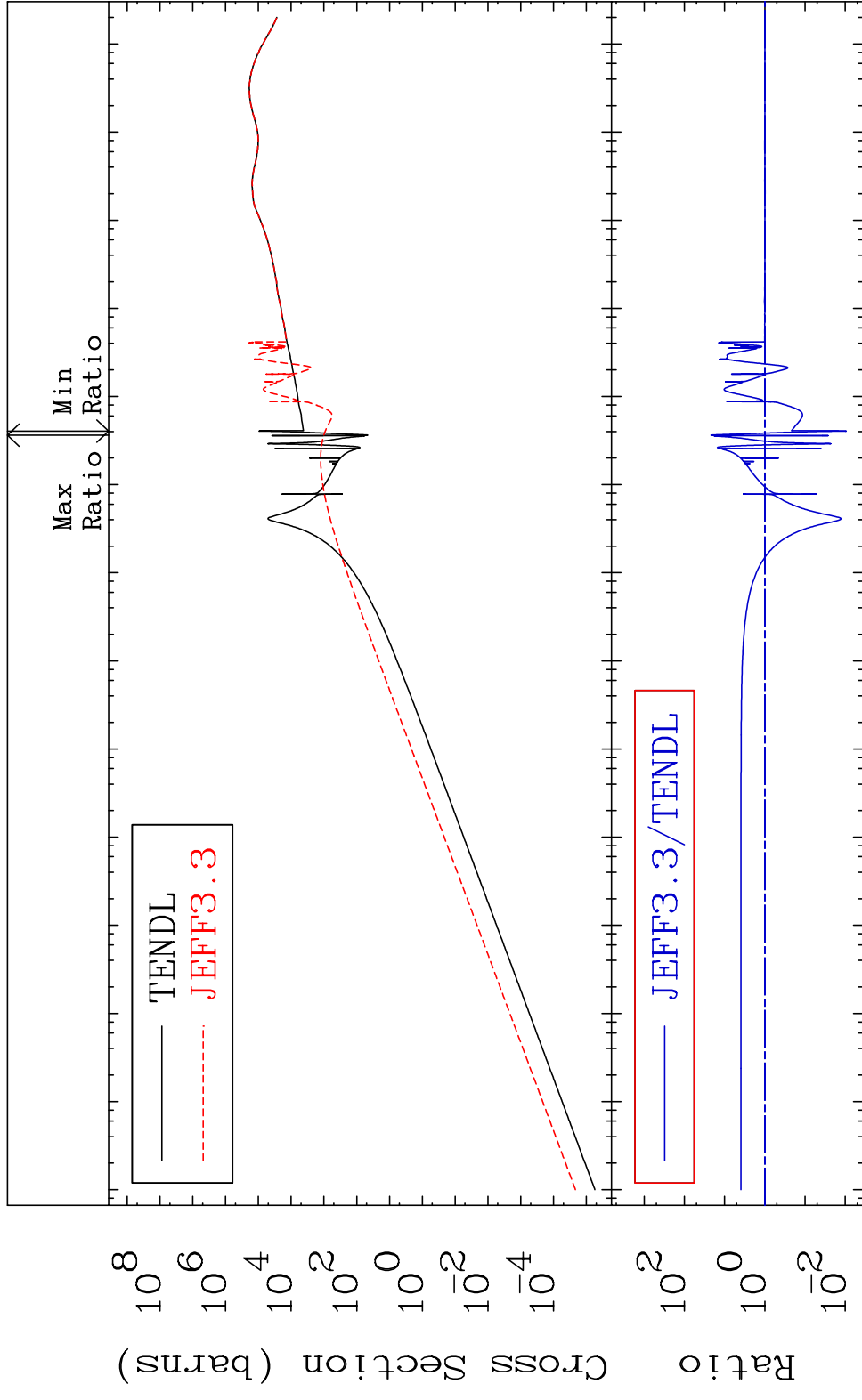
MAT 2040 He-4 Production 20-Ca-45  
 Cross Section -99.52 To 205.7 %



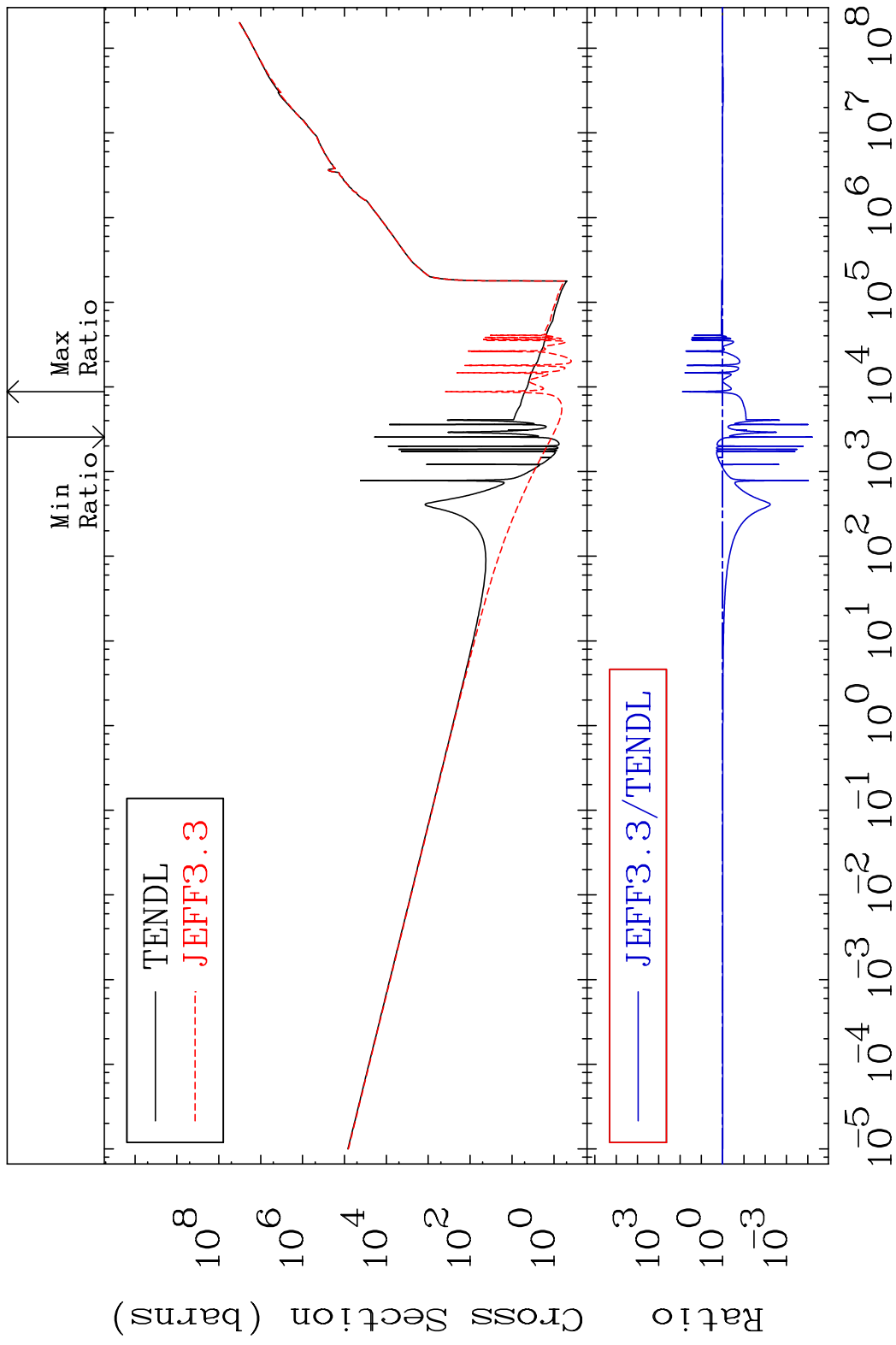
MAT 2040 Kerma total (eV-barns) 20-Ca-45  
 Cross Section -99.07 To 1971. %



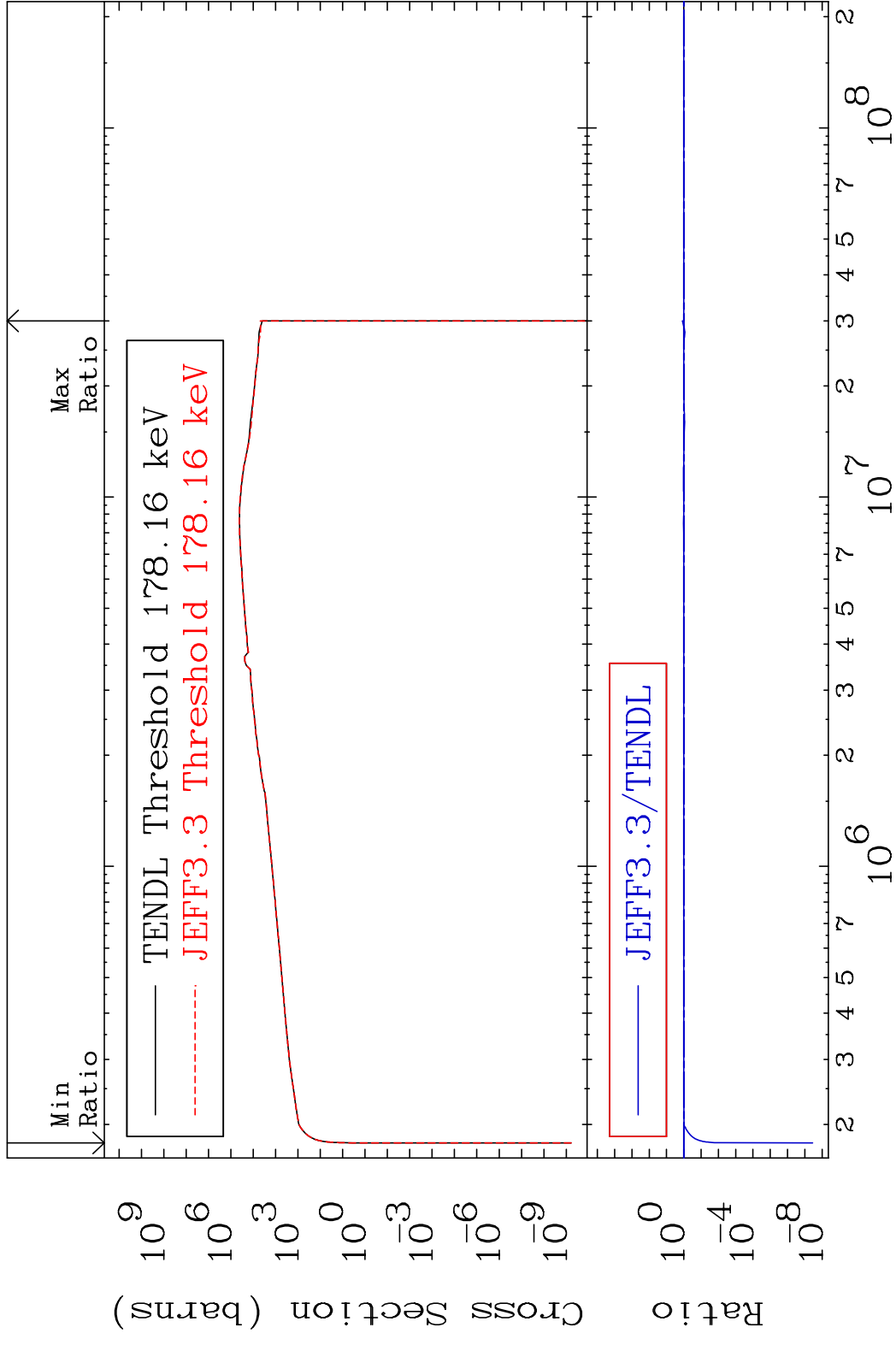
MAT 2040 Kerma elastic Cross Section -99.07 To 2122. % 20-Ca-45



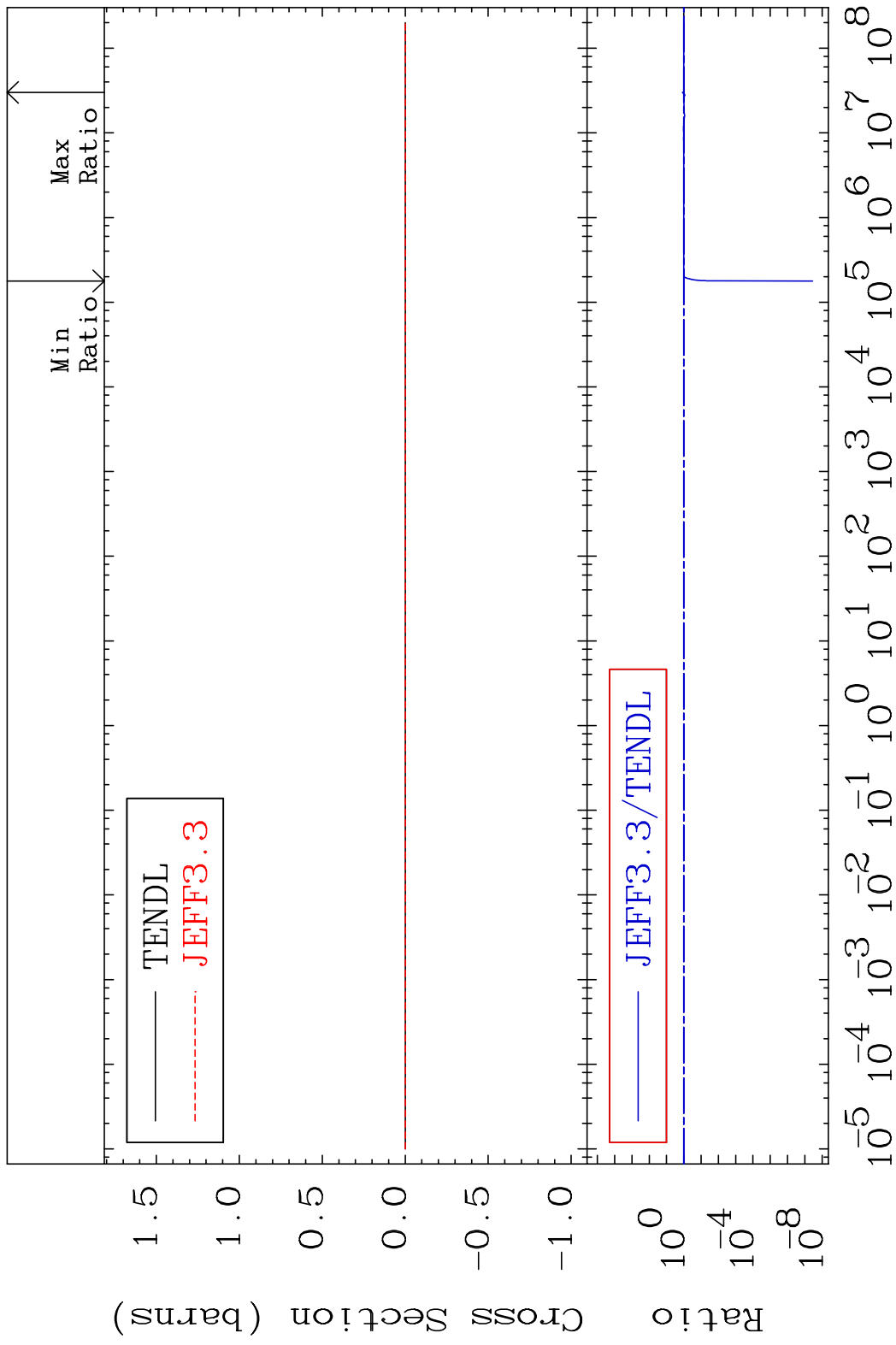
MAT 2040 Kerma non-elastic (all but mt2) 20-Ca-45  
 Cross Section -99.99 To 7686. %



MAT 2040 Kerma inelastic (mt51-91) 20-Ca-45  
 Cross Section -100.0 To 21.22 %



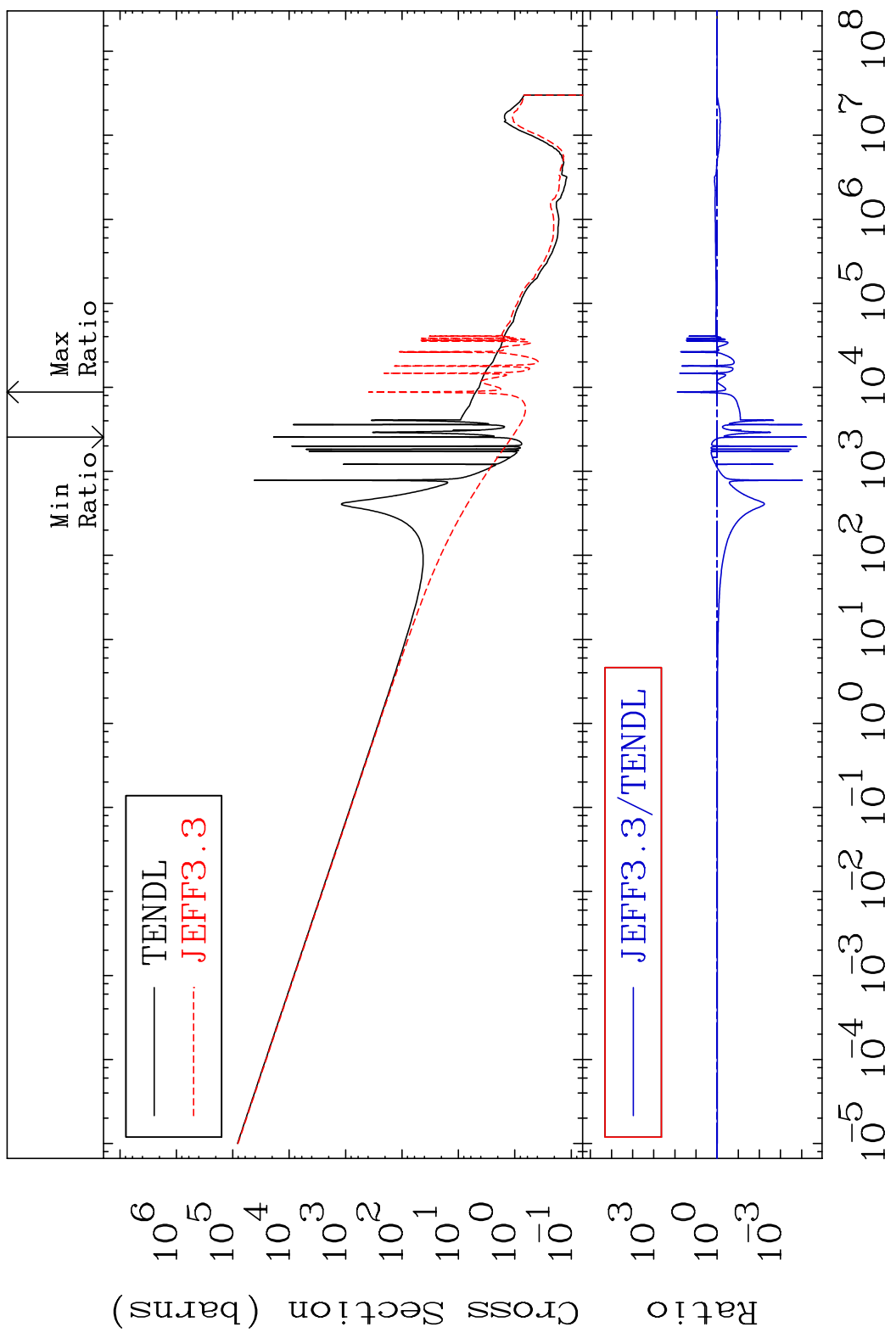
MAT 2040 Kerma fission (mt18 or mt19-20-21-38) 20-Ca-45  
 Cross Section -100.0 To 21.22 %





MAT 2040

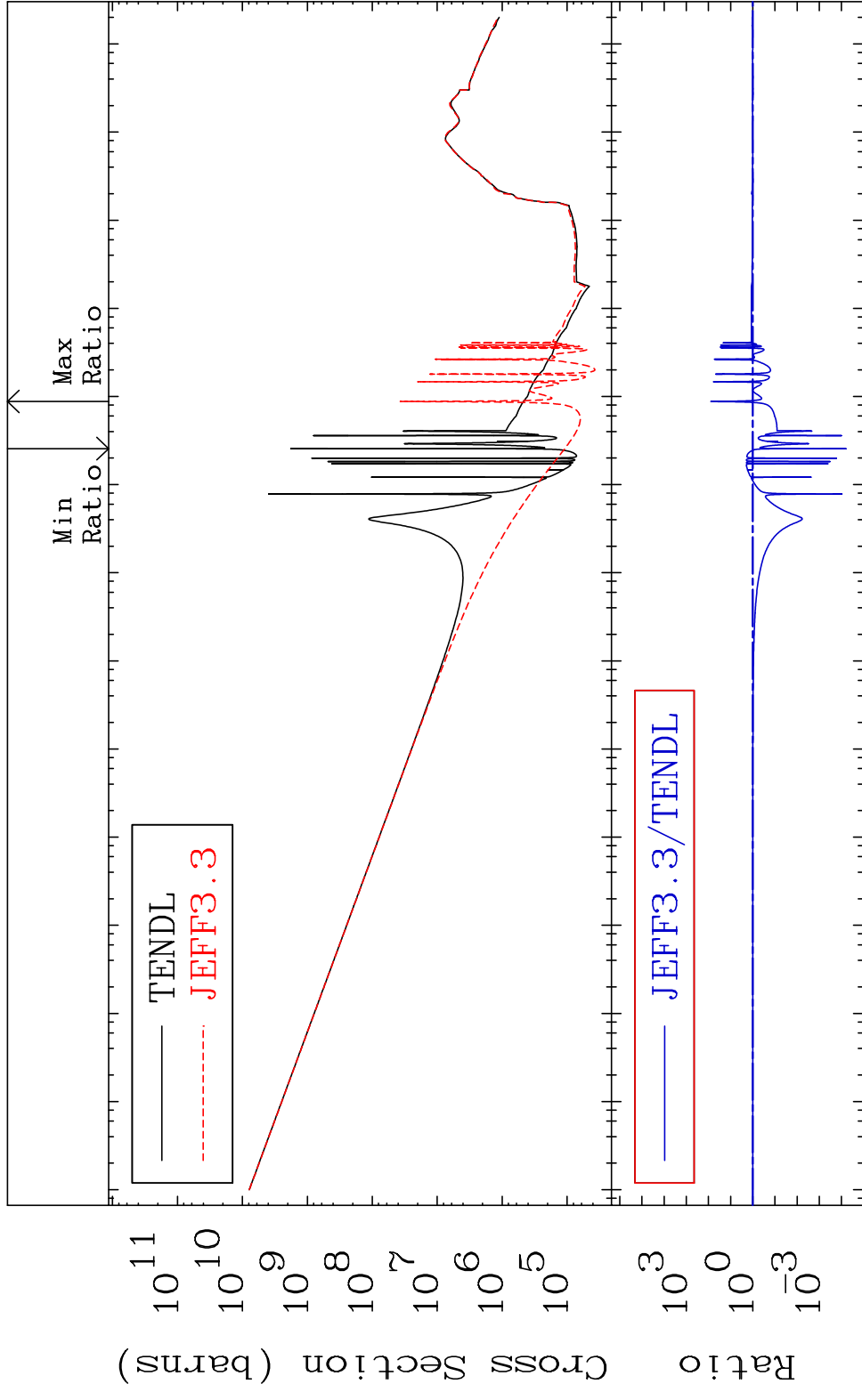
Kerma capture (mt102) 20-Ca-45  
Cross Section -99.99 To 7686. %



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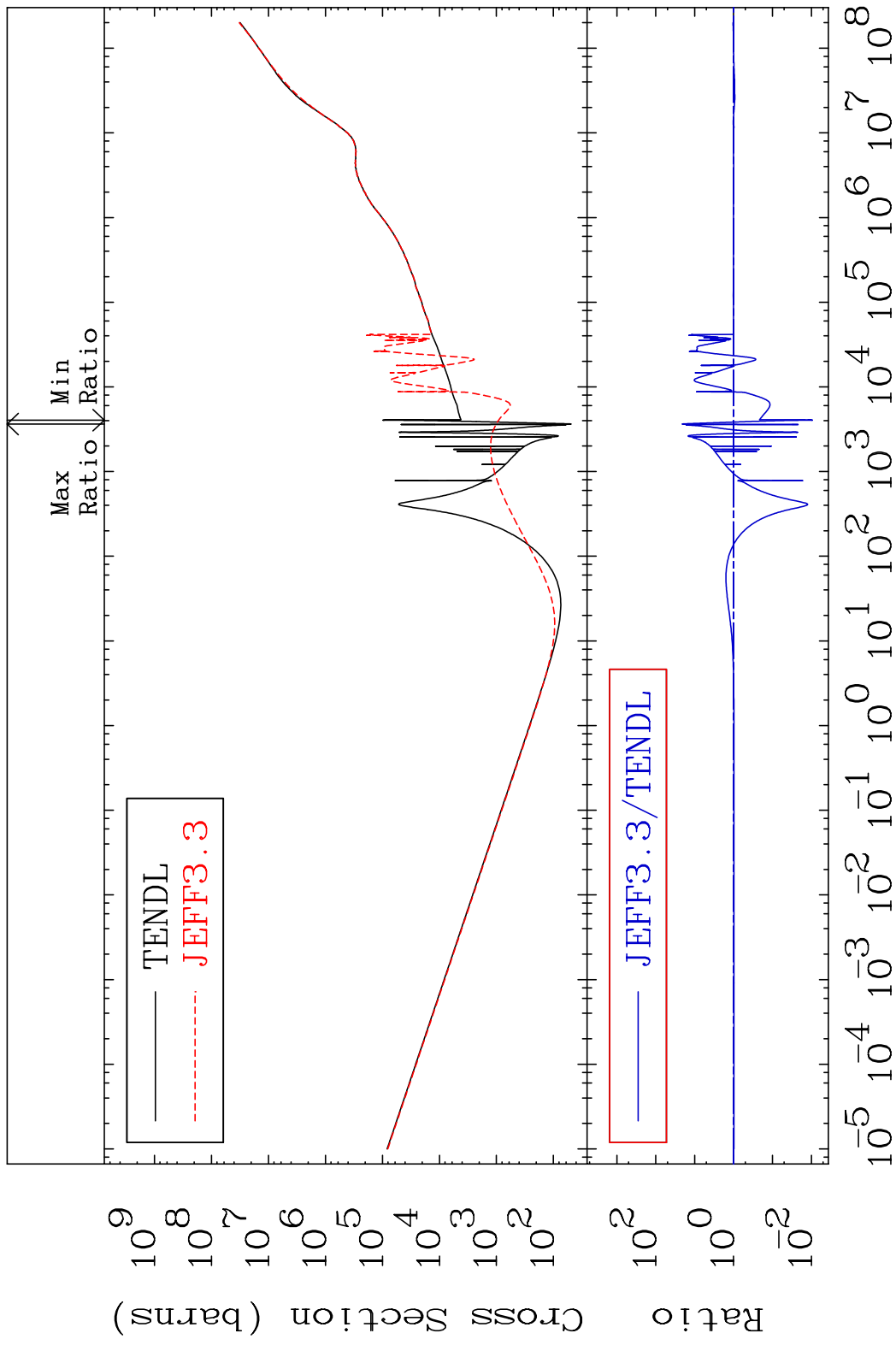
Incident Energy (eV) 20-Ca-45

MAT 2040 Total photon (eV-barns) 20-Ca-45  
 Cross Section -99.99 To 7813. %

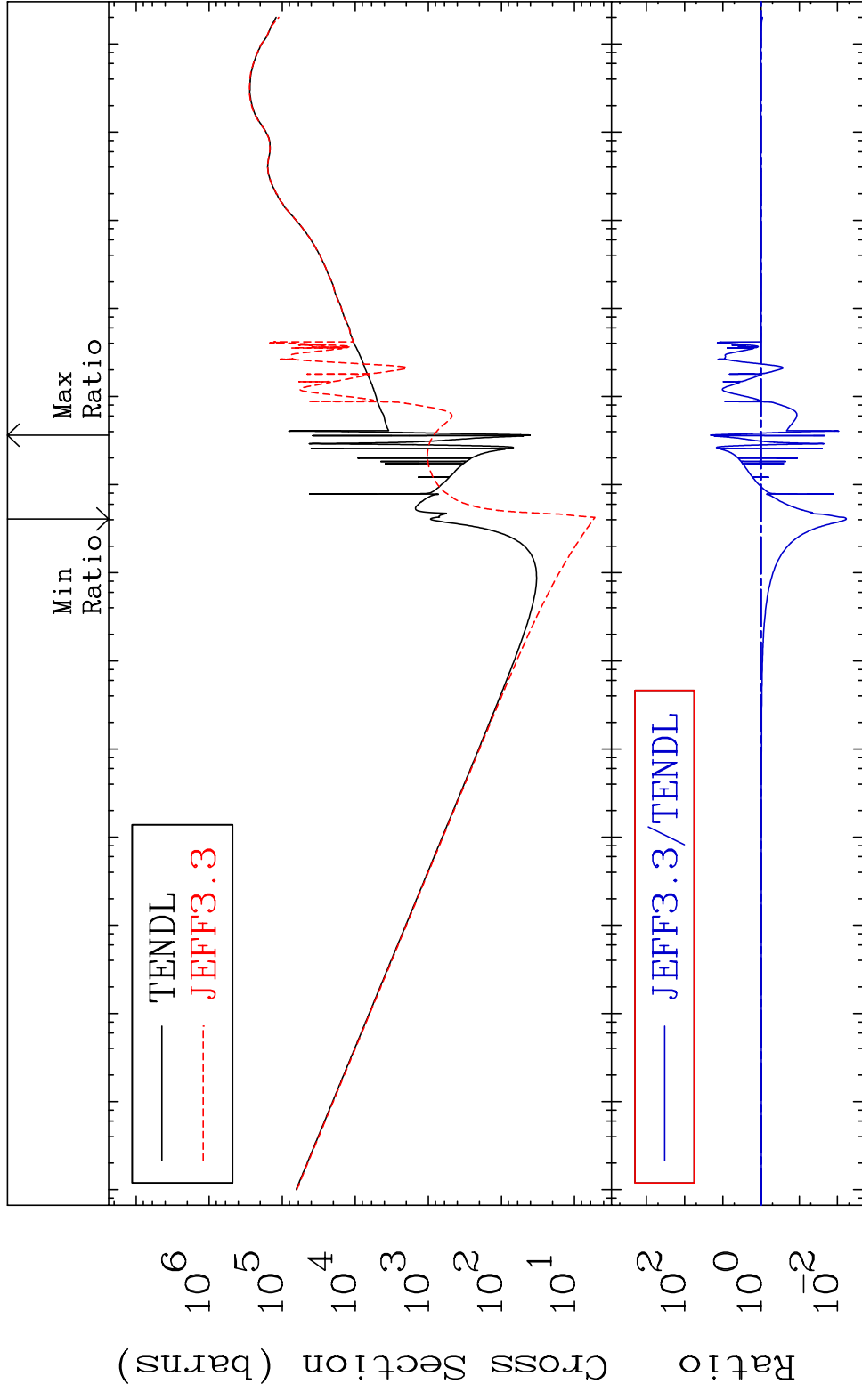


73 Incident Energy (eV) 20-Ca-45

MAT 2040 Total kinematic kerma (high limit) 20-Ca-45  
 Cross Section -99.07 To 1971. %



MAT 2040      Dpa total (eV-barns)      20-Ca-45  
 Cross Section      -99.42 To 1980. %



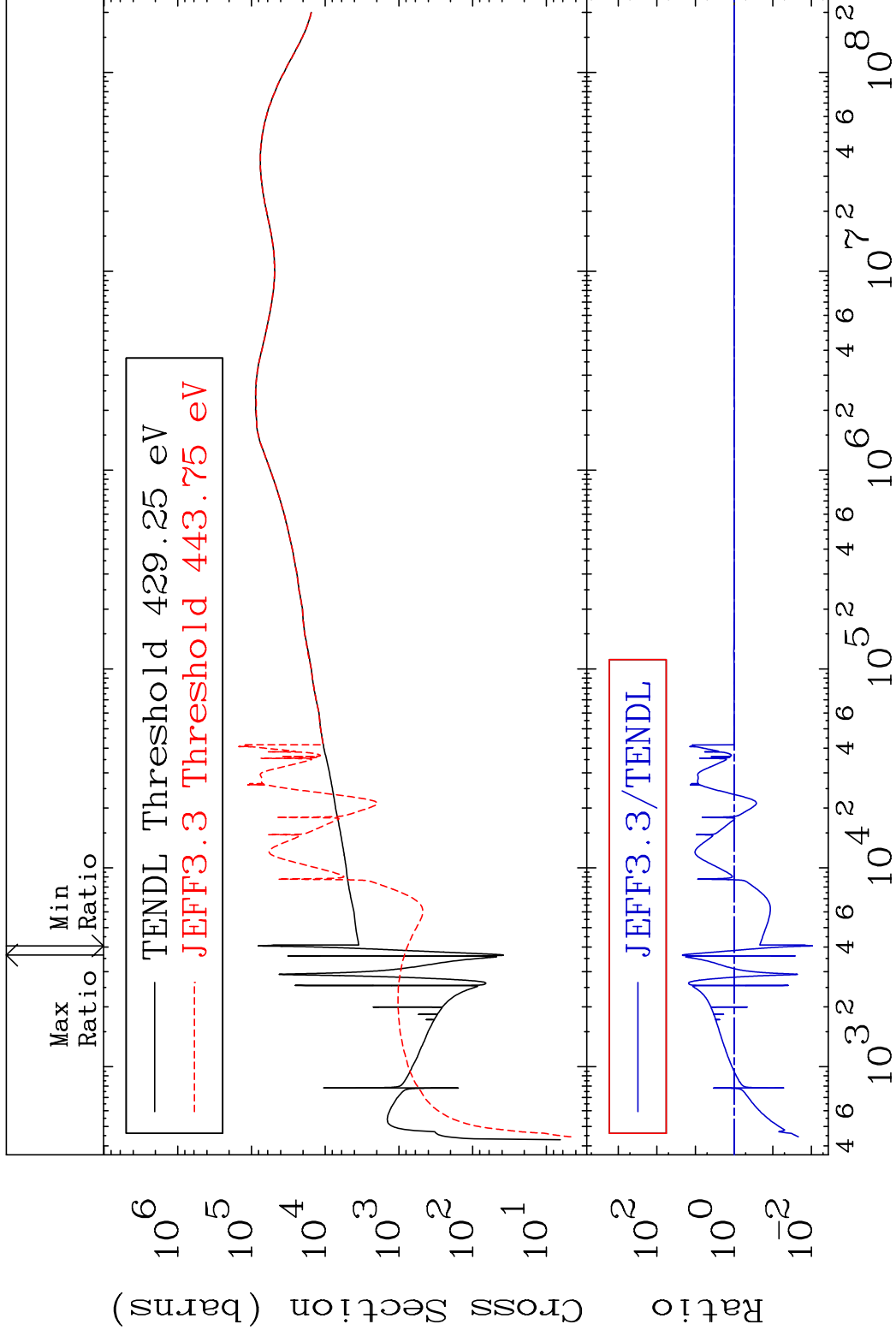
75      Incident Energy (eV)      20-Ca-45

MAT 2040

Dpa elastic (mt2)

20-Ca-45

Cross Section -99.07 To 2122. %

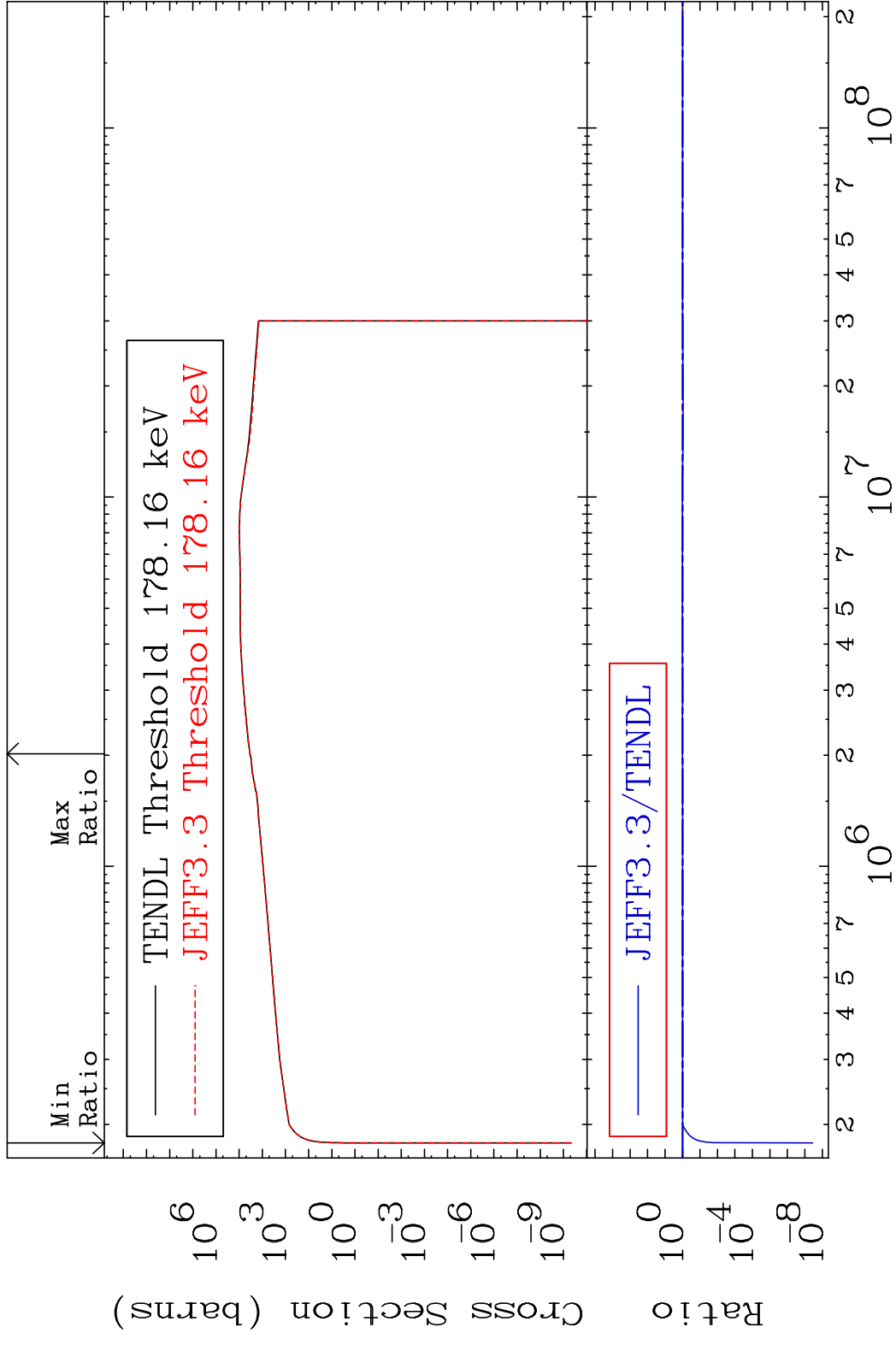


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Incident Energy (eV)

20-Ca-45

MAT 2040 Dpa inelastic (mt51-91) 20-Ca-45  
 Cross Section -100.0 To 2.147 %



MAT 2040 Dpa disappearance (mt102 -120) 20-Ca-45  
 Cross Section -99.99 To 7694. %

