

Program Complot  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

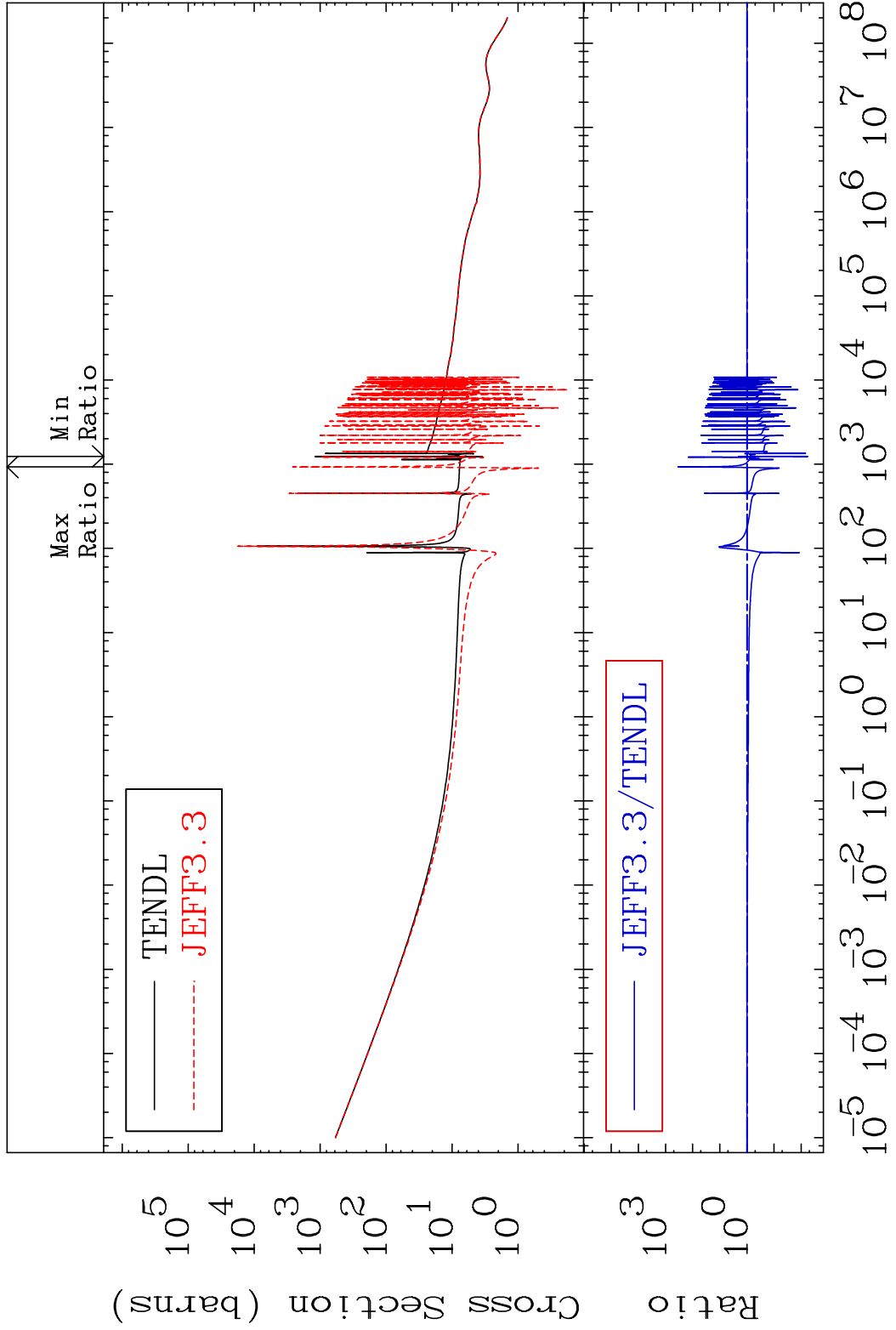
U.S.A.

Tele: 925-443-1911

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

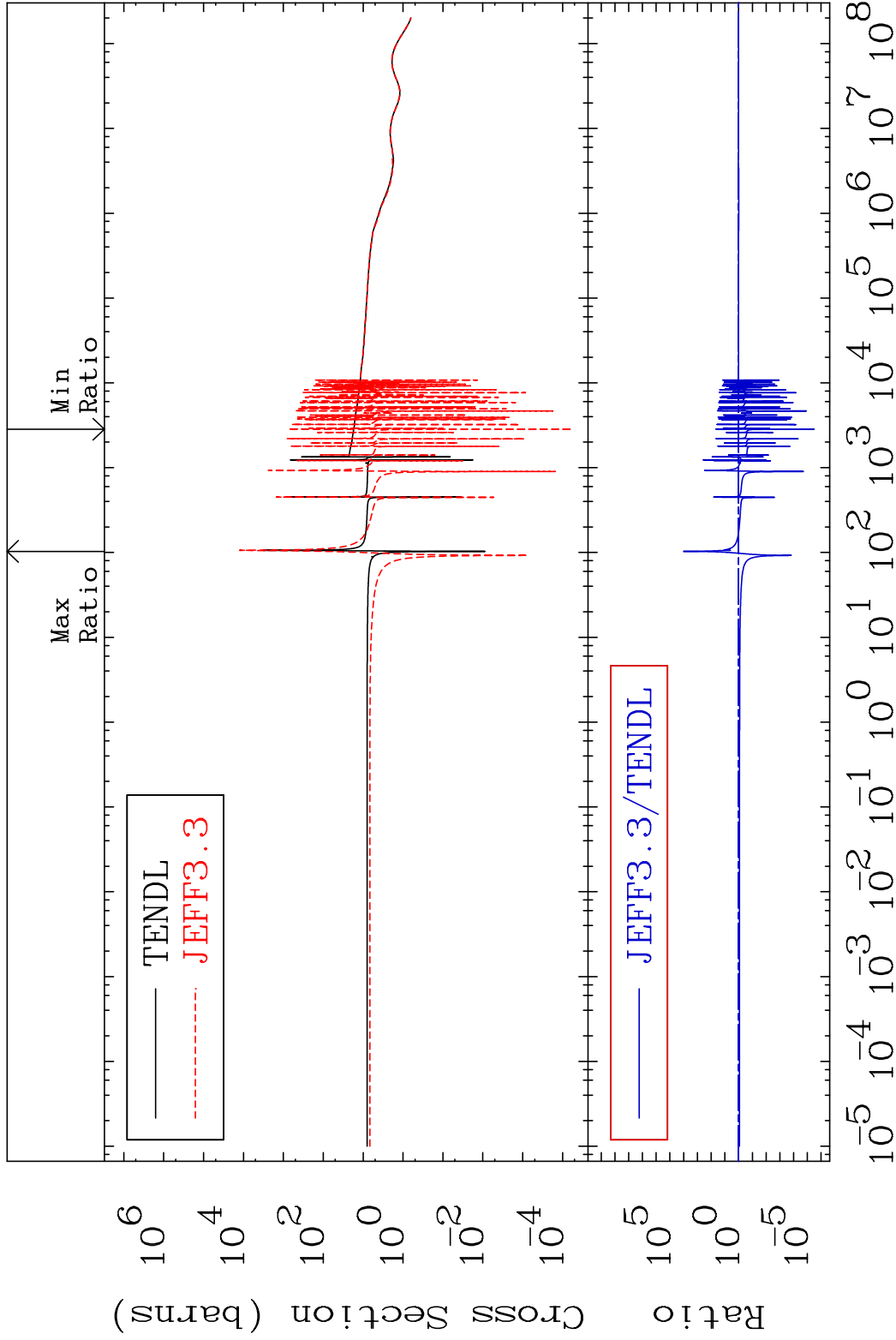
Press Mouse Button to Start

MAT 3631                      Total                      36-Kr-80  
 Cross Section                      -99.43 To 9999. %



1                      Incident Energy (eV)                      36-Kr-80

MAT 3631                      Elastic                      36-Kr-80  
 Cross Section                      -100.0 To 9999. %



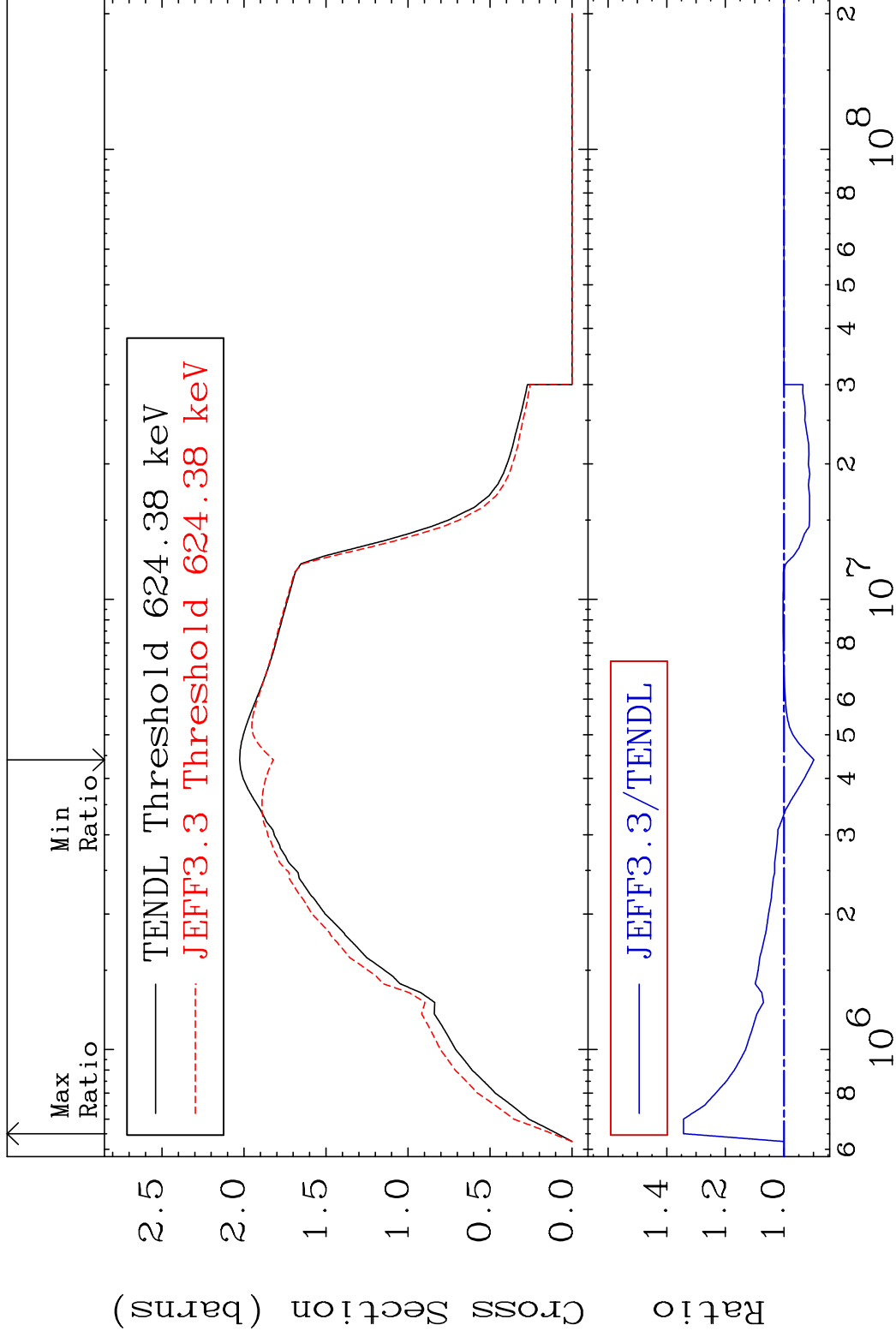
2                      Incident Energy (eV)                      36-Kr-80

MAT 3631

Inelastic

<sup>36</sup>Kr-80

Cross Section -10.15 To 34.29 %

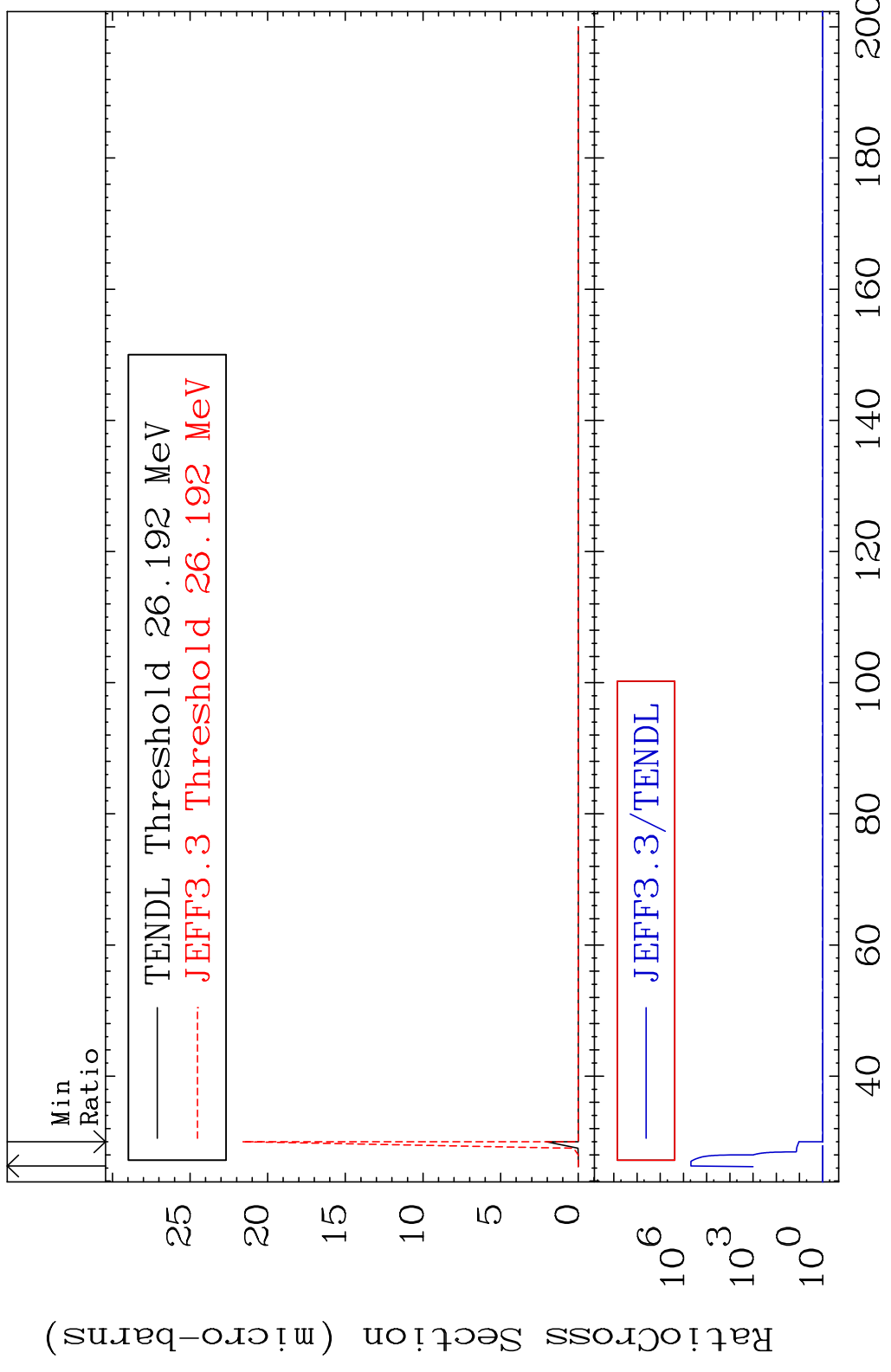


3

Incident Energy (eV)

<sup>36</sup>Kr-80

MAT 3631 (n,2n) d 36-Kr-80  
 Cross Section 0.000 To 9999. %

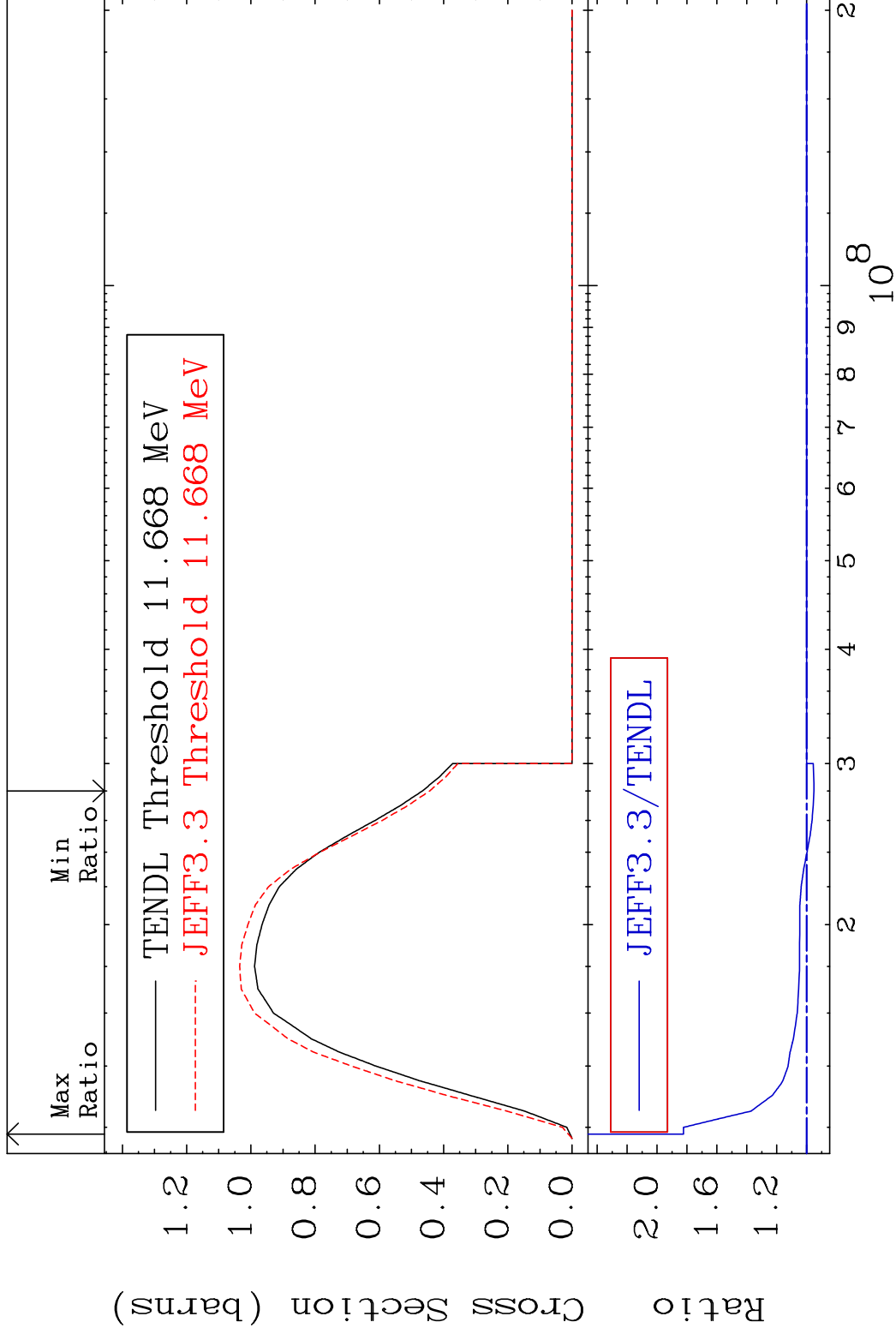


MAT 3631

(n,2n)

36-Kr-80

Cross Section -4.821 To 82.36 %

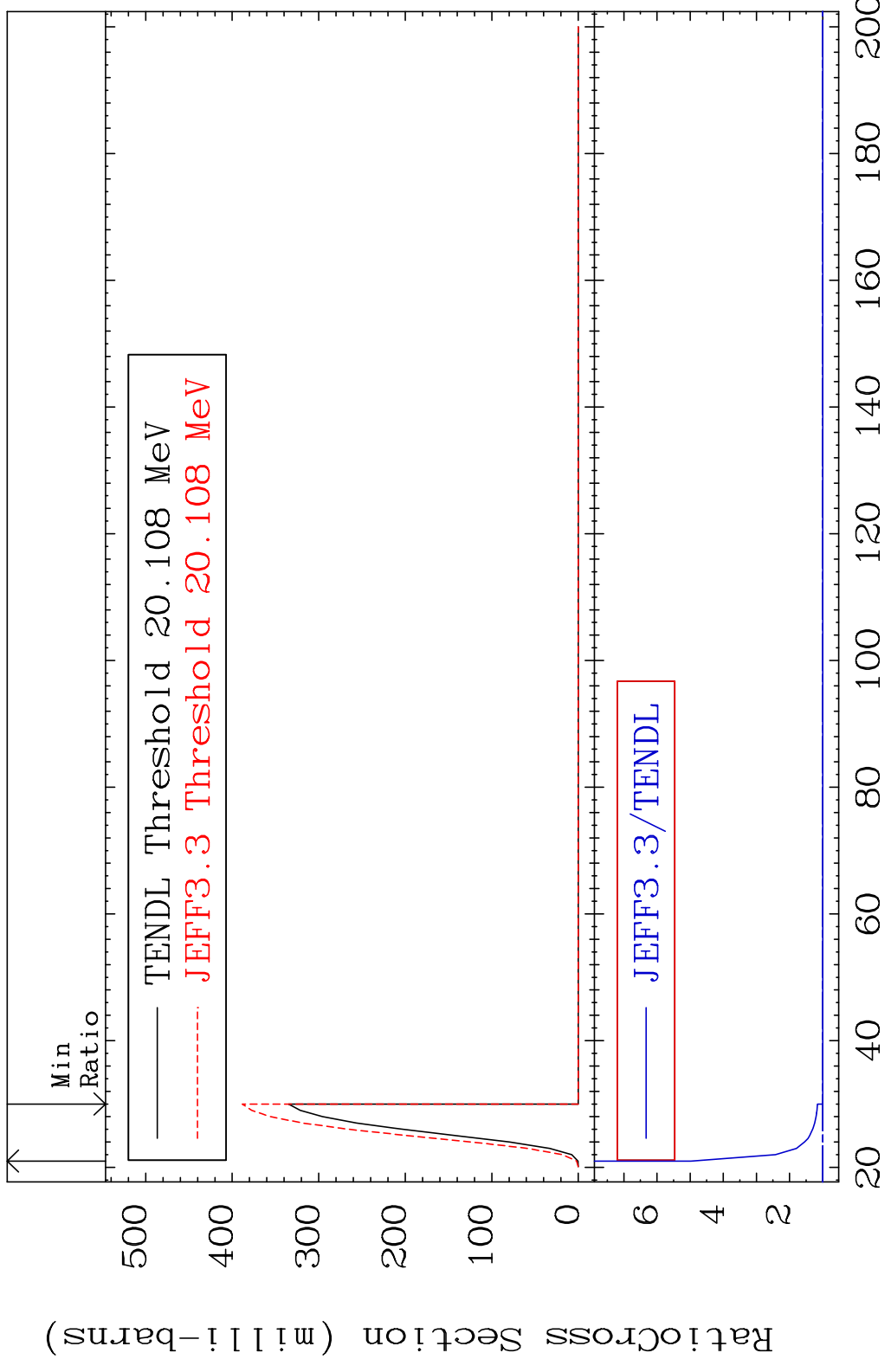


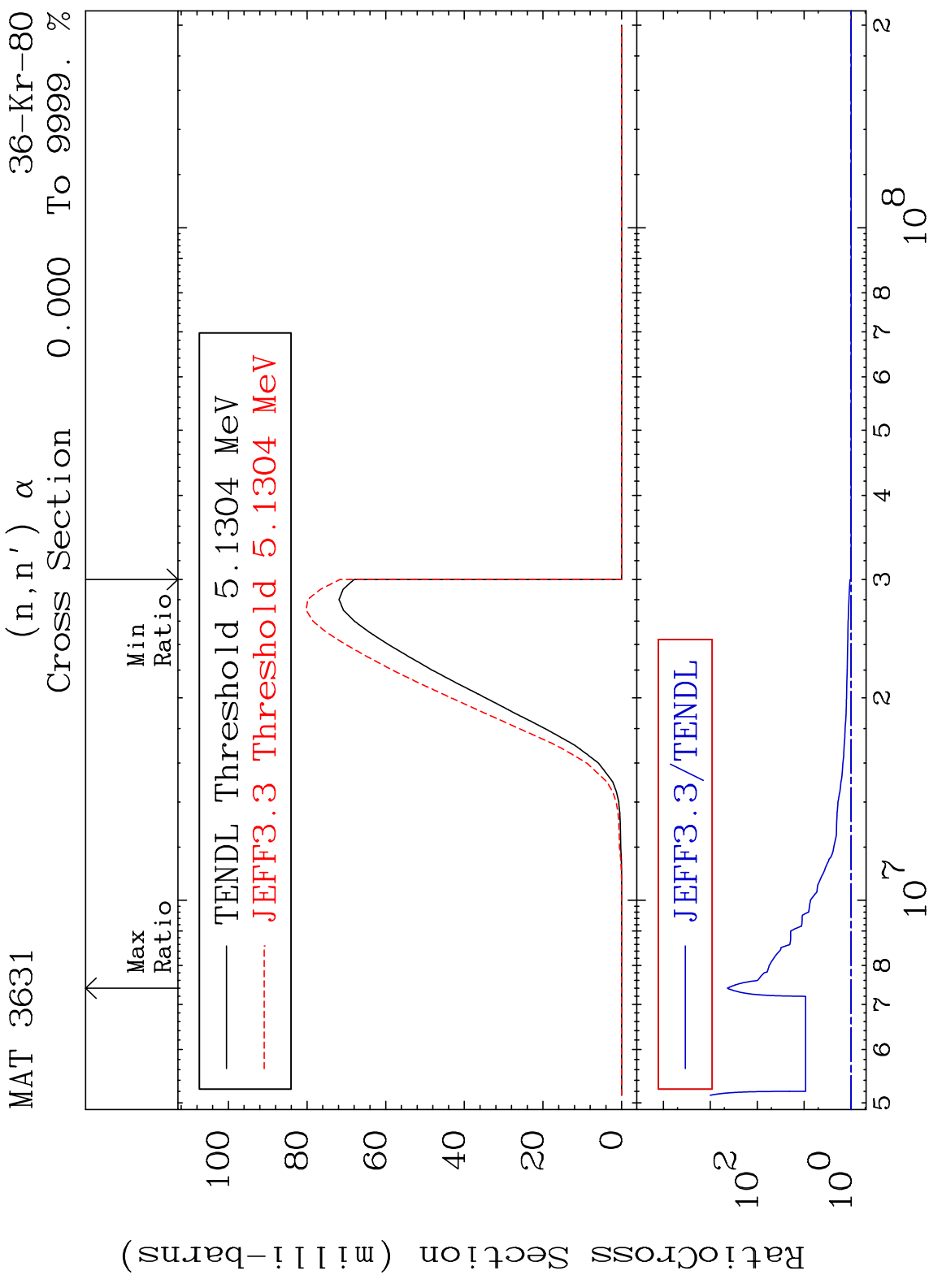
5

Incident Energy (eV)

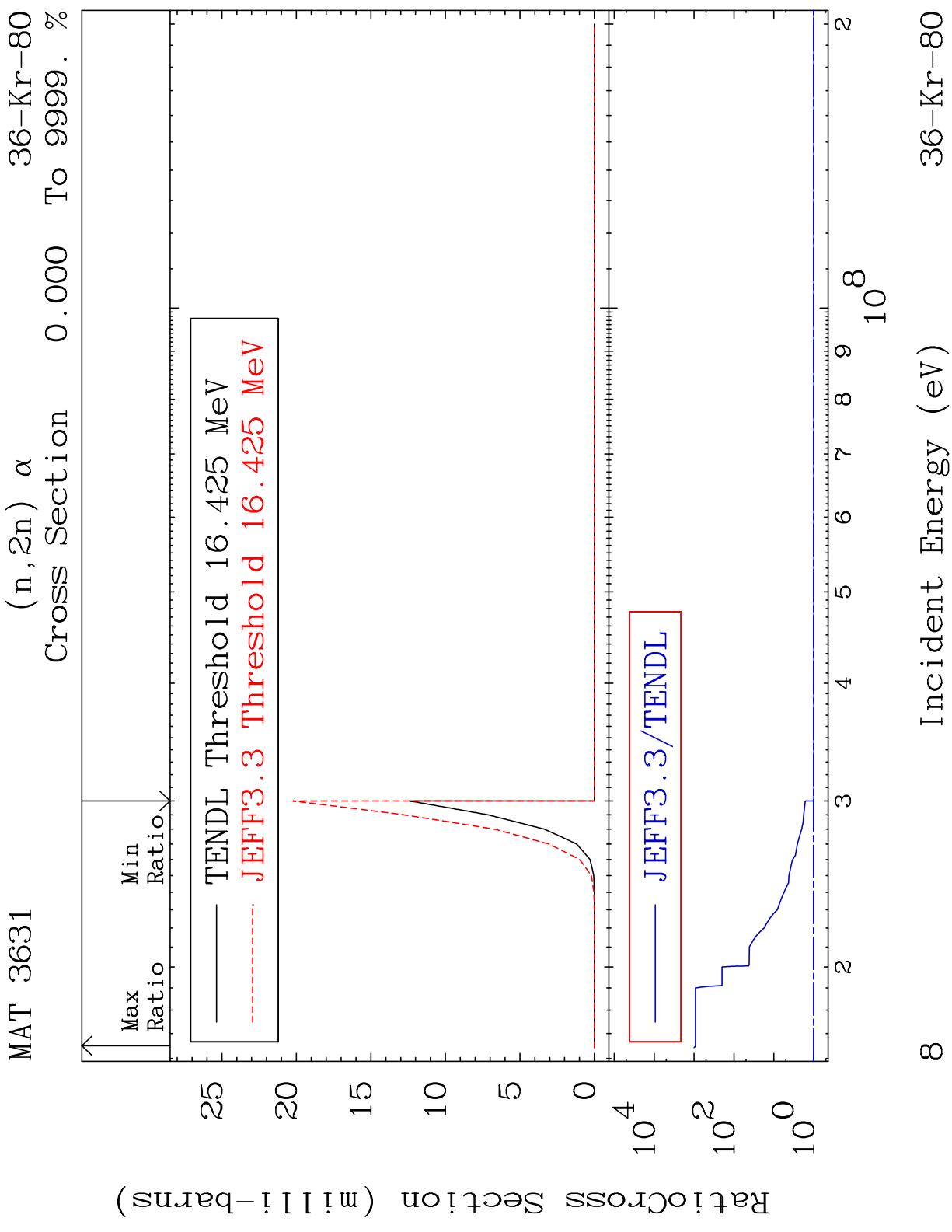
36-Kr-80

MAT 3631 (n,3n) 36-Kr-80  
 Cross Section 0.000 To 397.8 %

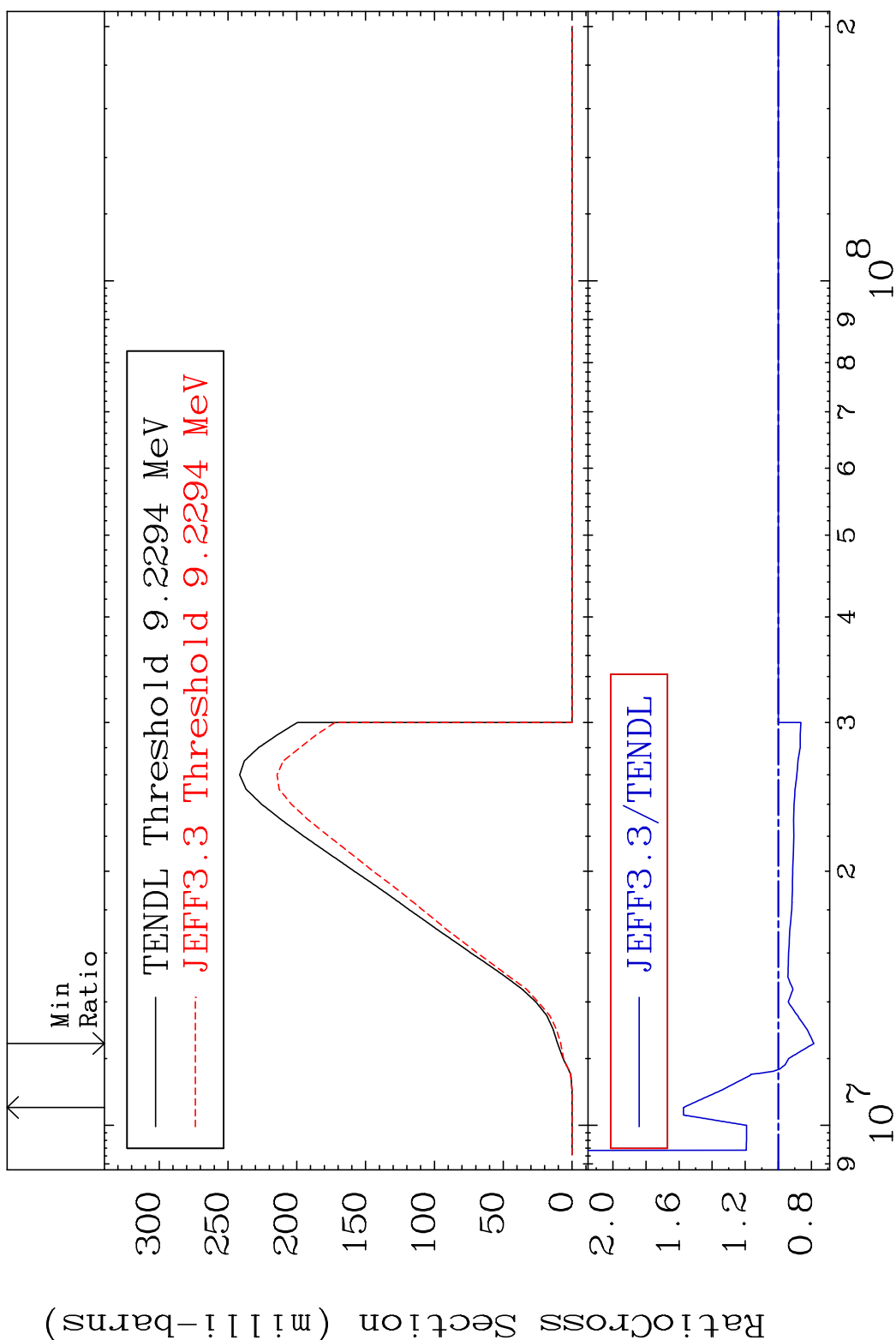




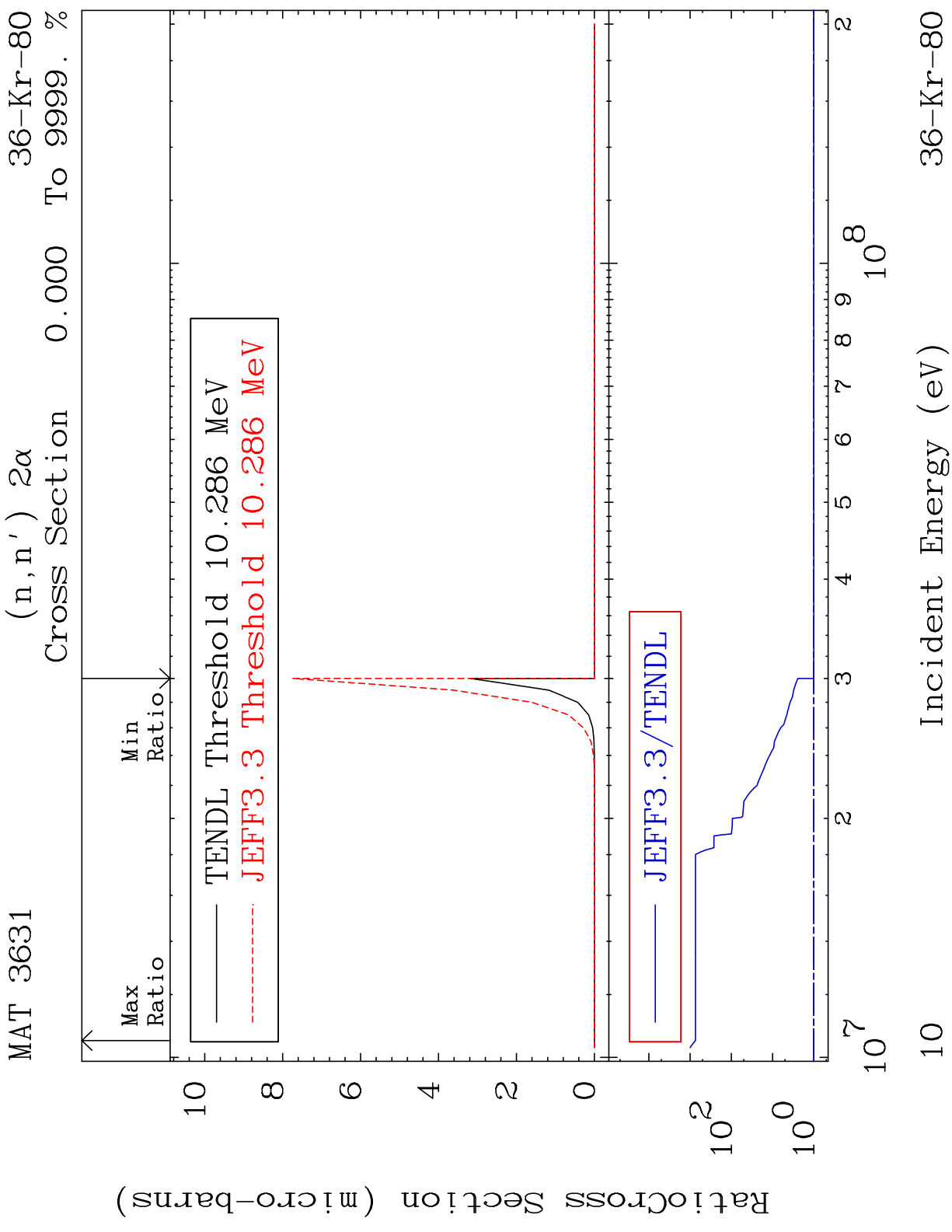




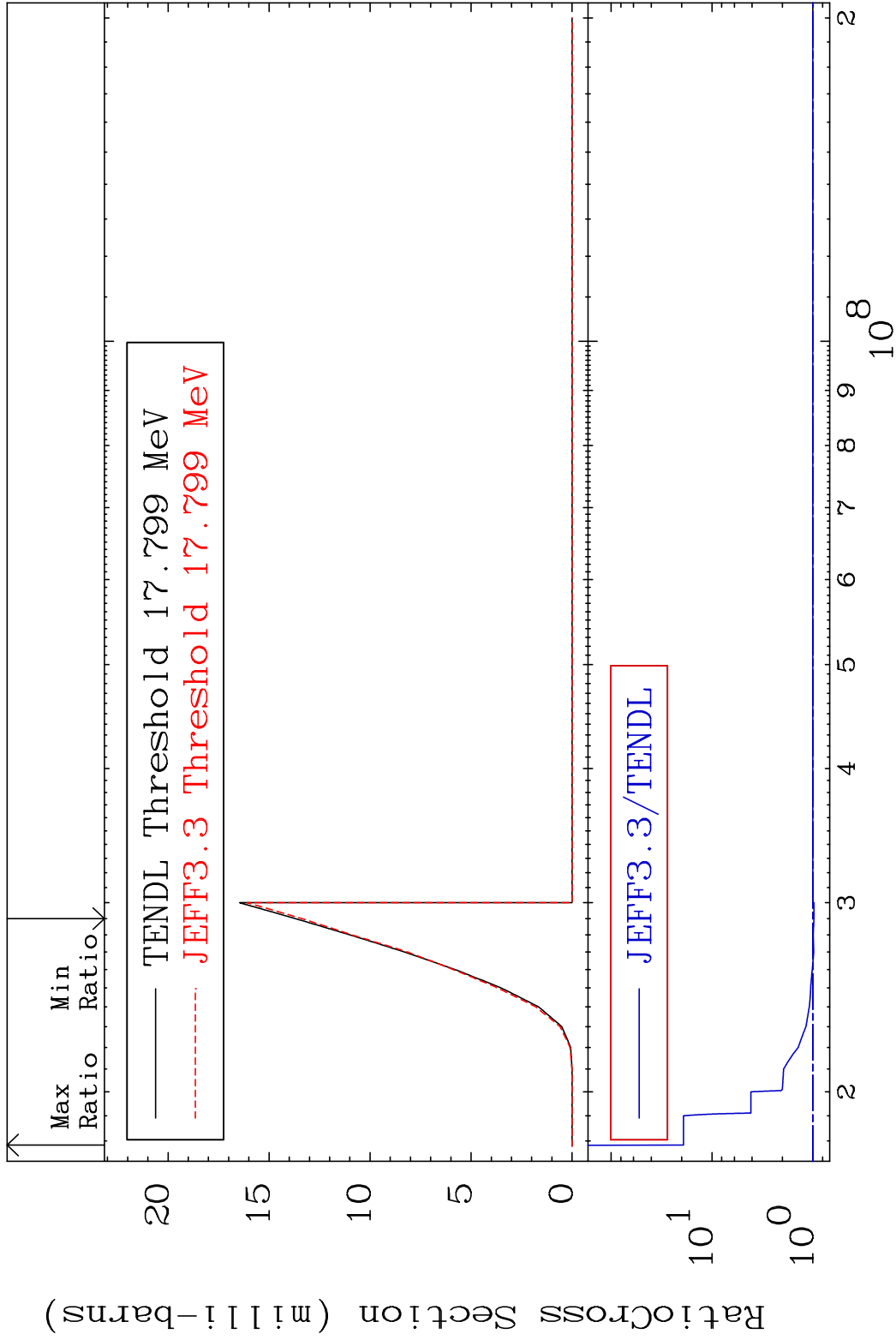
MAT 3631 (n, n') p 36-Kr-80  
 Cross Section -21.51 To 57.33 %



9 2  
 10<sup>7</sup> 10<sup>8</sup>  
 36-Kr-80

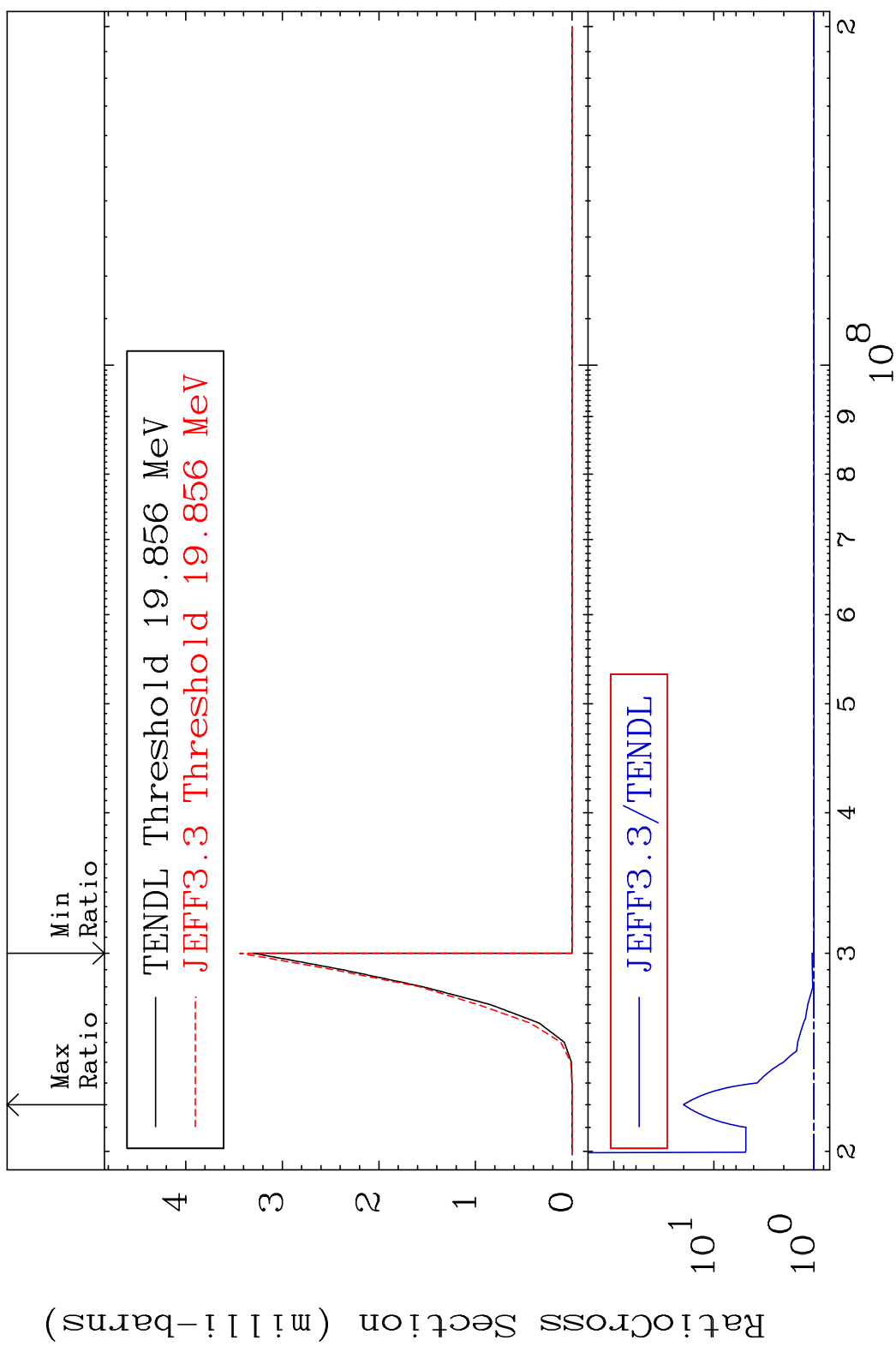


MAT 3631 (n, n') d 36-Kr-80  
 Cross Section -2.370 To 1817. %



11 Incident Energy (eV) 36-Kr-80

MAT 3631 (n, n') t 36-Kr-80  
 Cross Section 0.000 To 1915. %



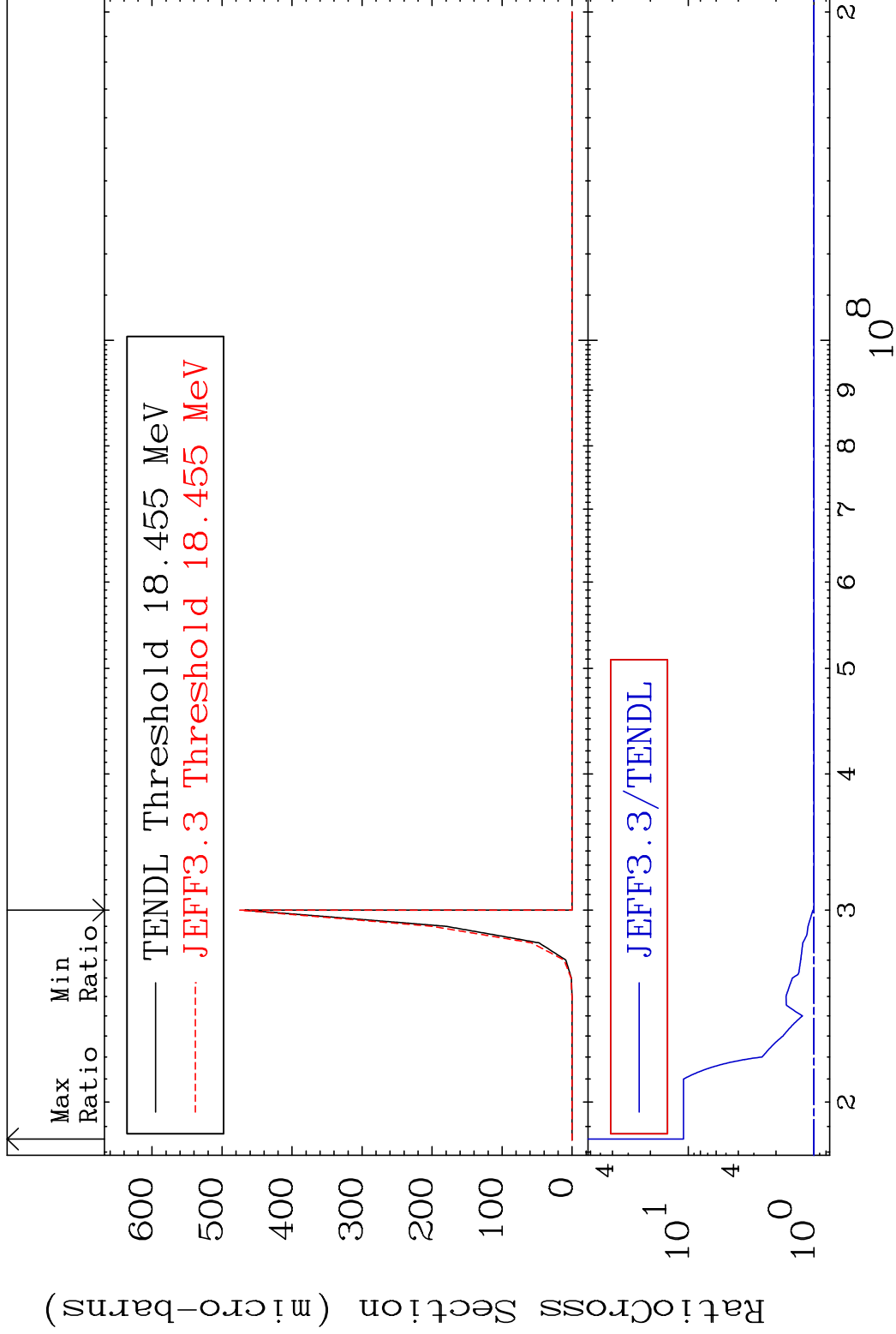
12 Incident Energy (eV) 36-Kr-80

MAT 3631

(n, n') He-3

36-Kr-80

Cross Section 0.000 To 990.9 %

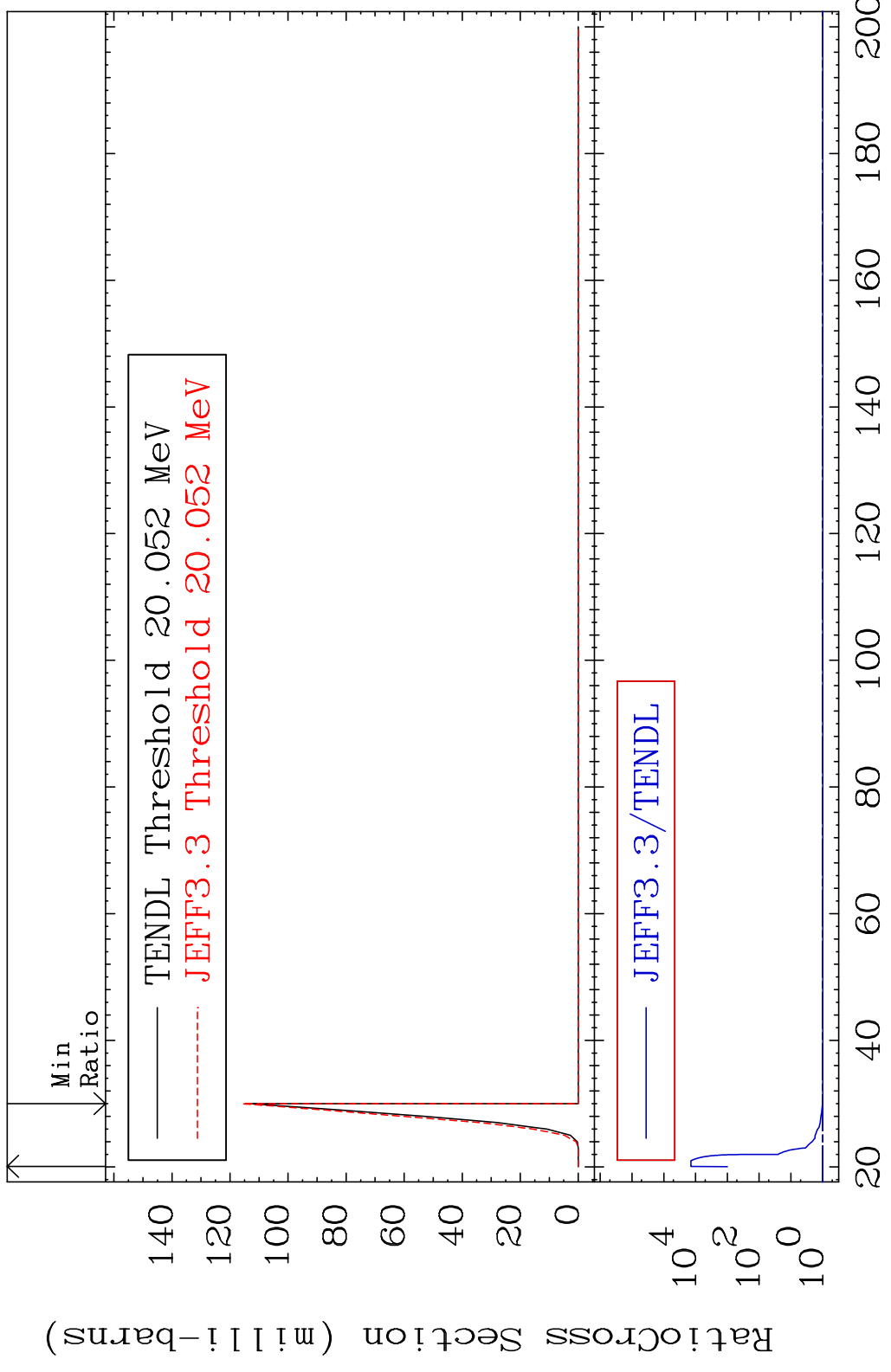


13

Incident Energy (eV)

36-Kr-80

MAT 3631 (n,2n) p 36-Kr-80  
Cross Section 0.000 To 9999. %



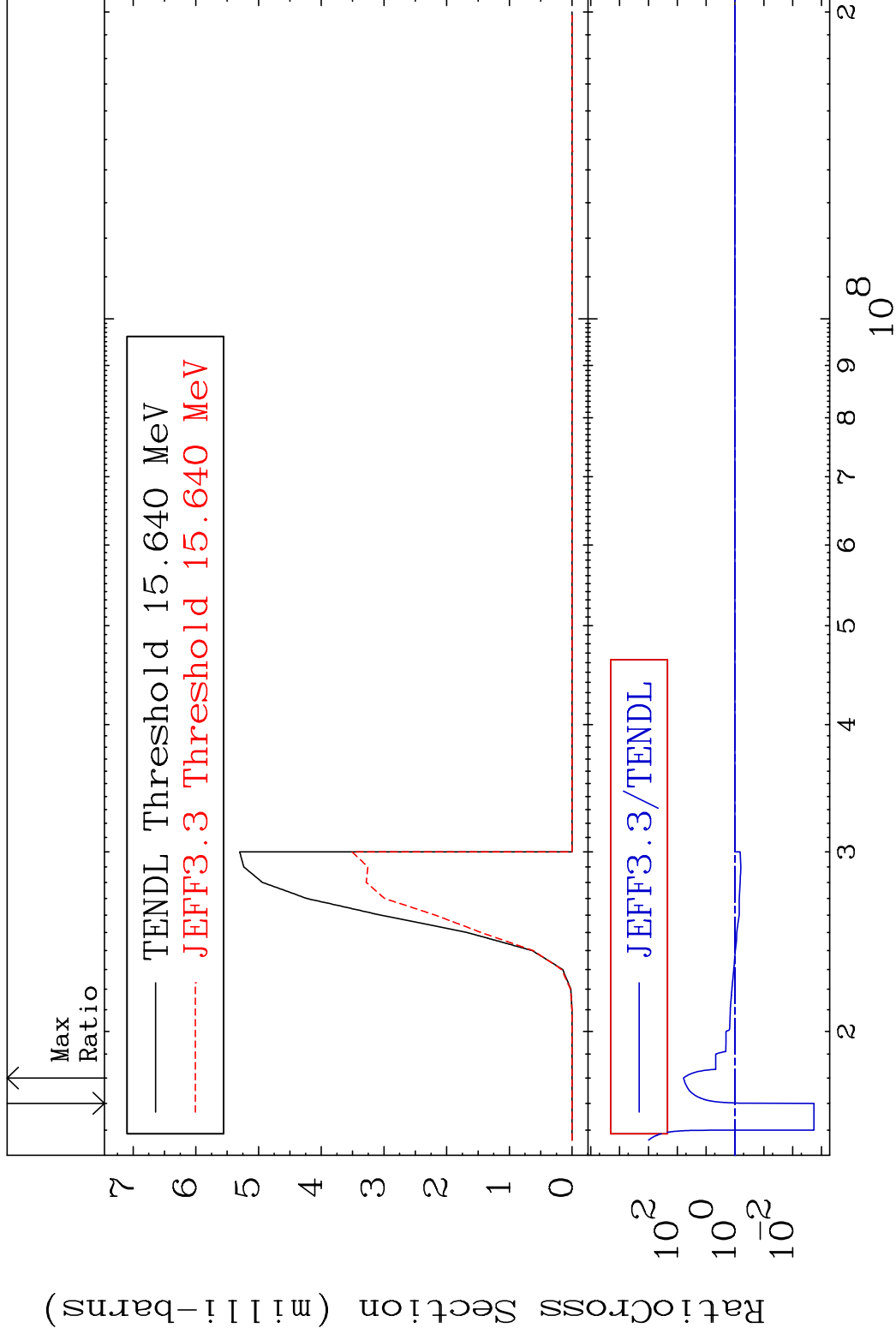
14 36-Kr-80

MAT 3631

(n, 2n) p

36-Kr-80

Cross Section -99.82 To 6005. %



15

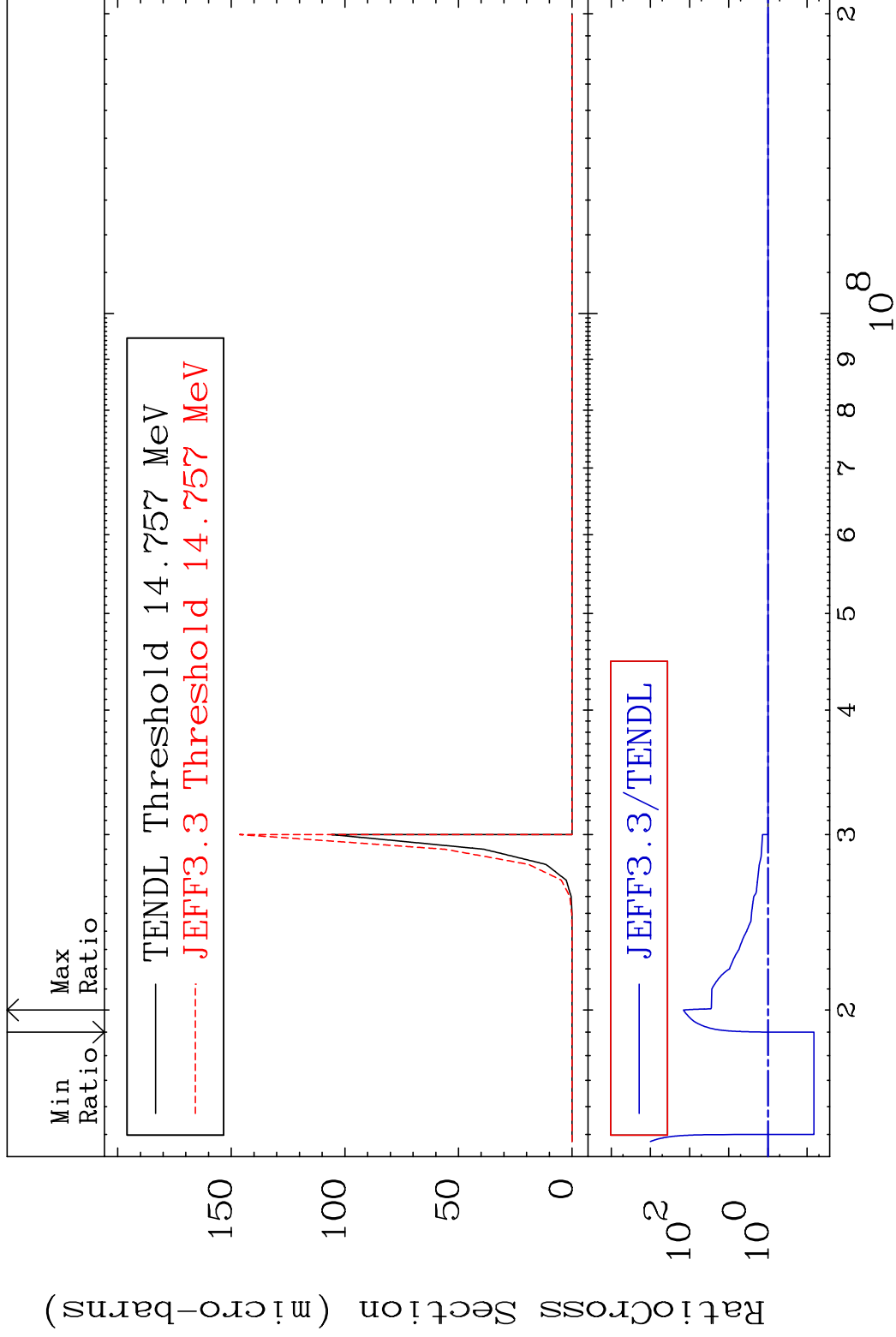
Incident Energy (eV)

36-Kr-80



MAT 3631

(n, n') p  $\alpha$  36-Kr-80  
Cross Section -93.27 To 9999. %

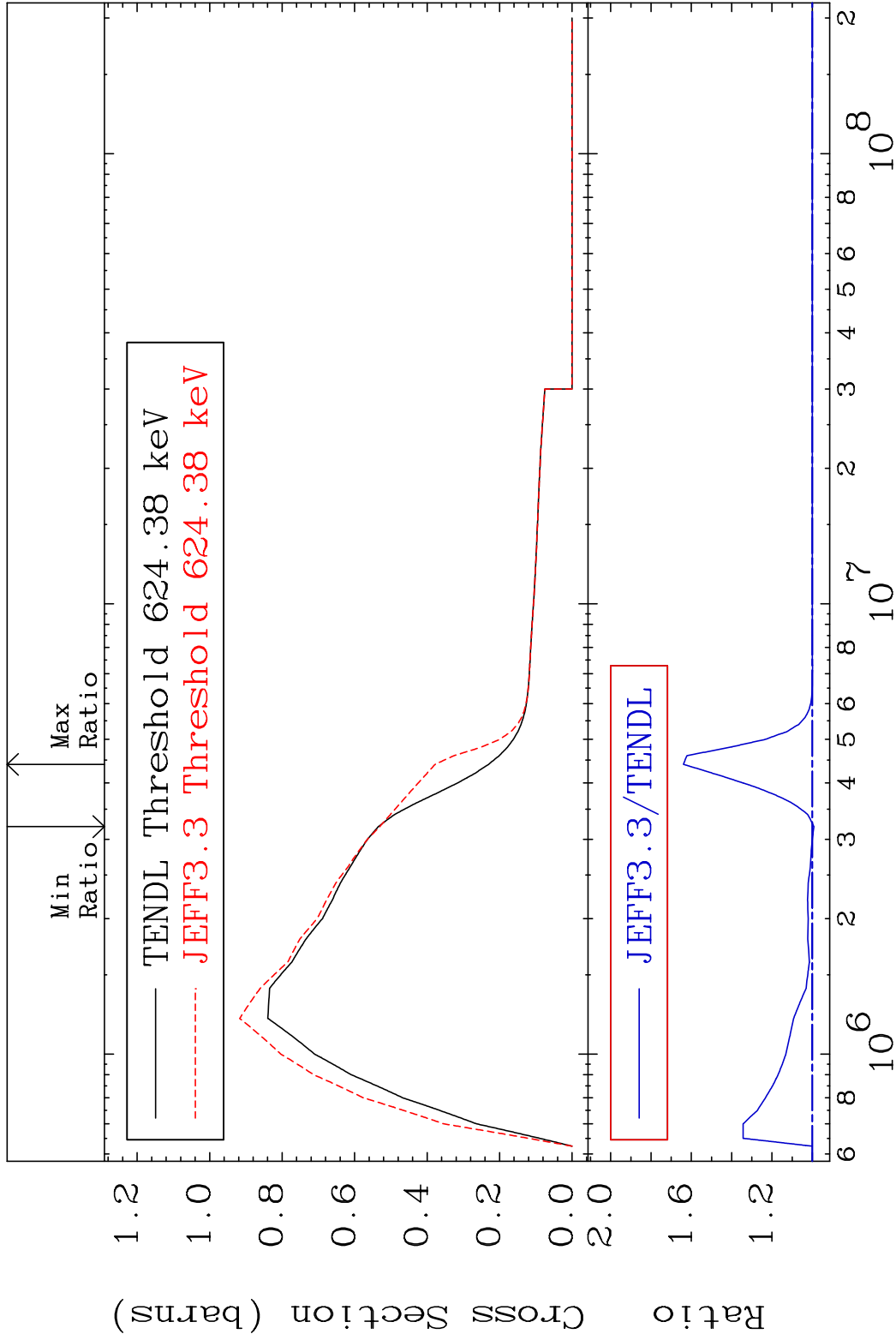


16

Incident Energy (eV)

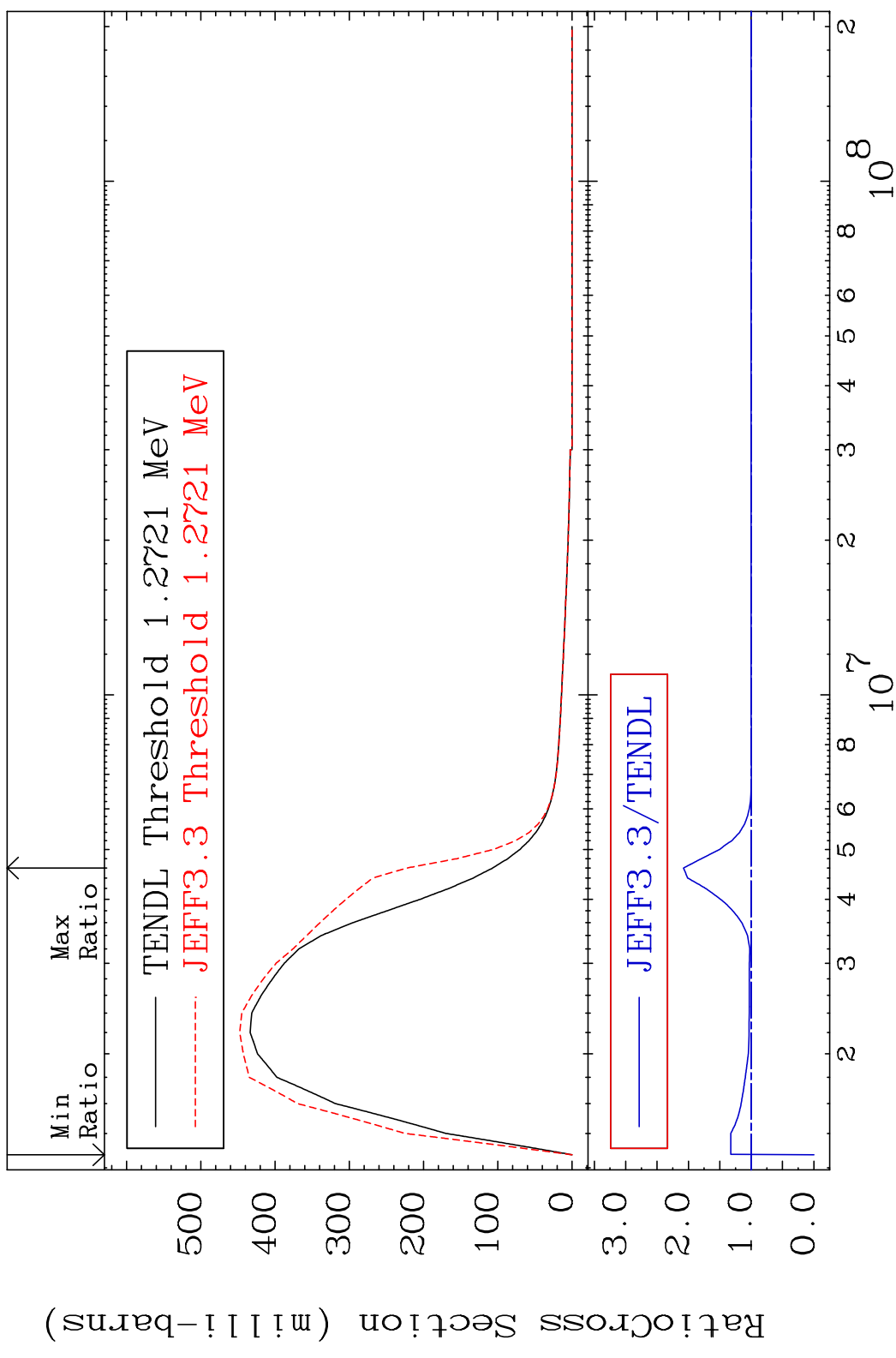
36-Kr-80

MAT 3631 MT= 51 (n, n') Level 36-Kr-80  
 Cross Section -0.779 To 63.92 %



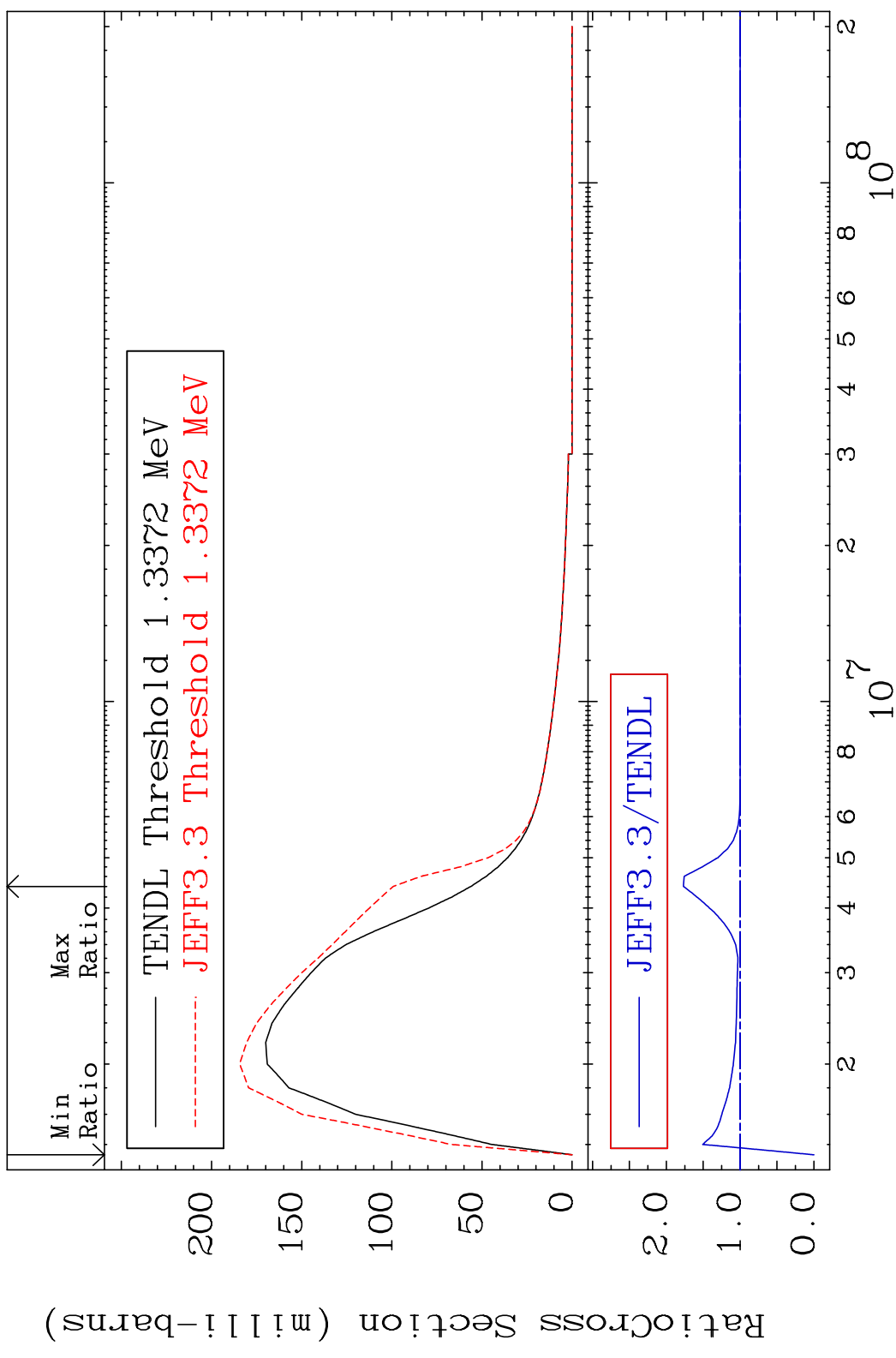
17 Incident Energy (eV) 36-Kr-80

MAT 3631 MT= 52 (n, n') Level 36-Kr-80  
 Cross Section -100.0 To 107.9 %

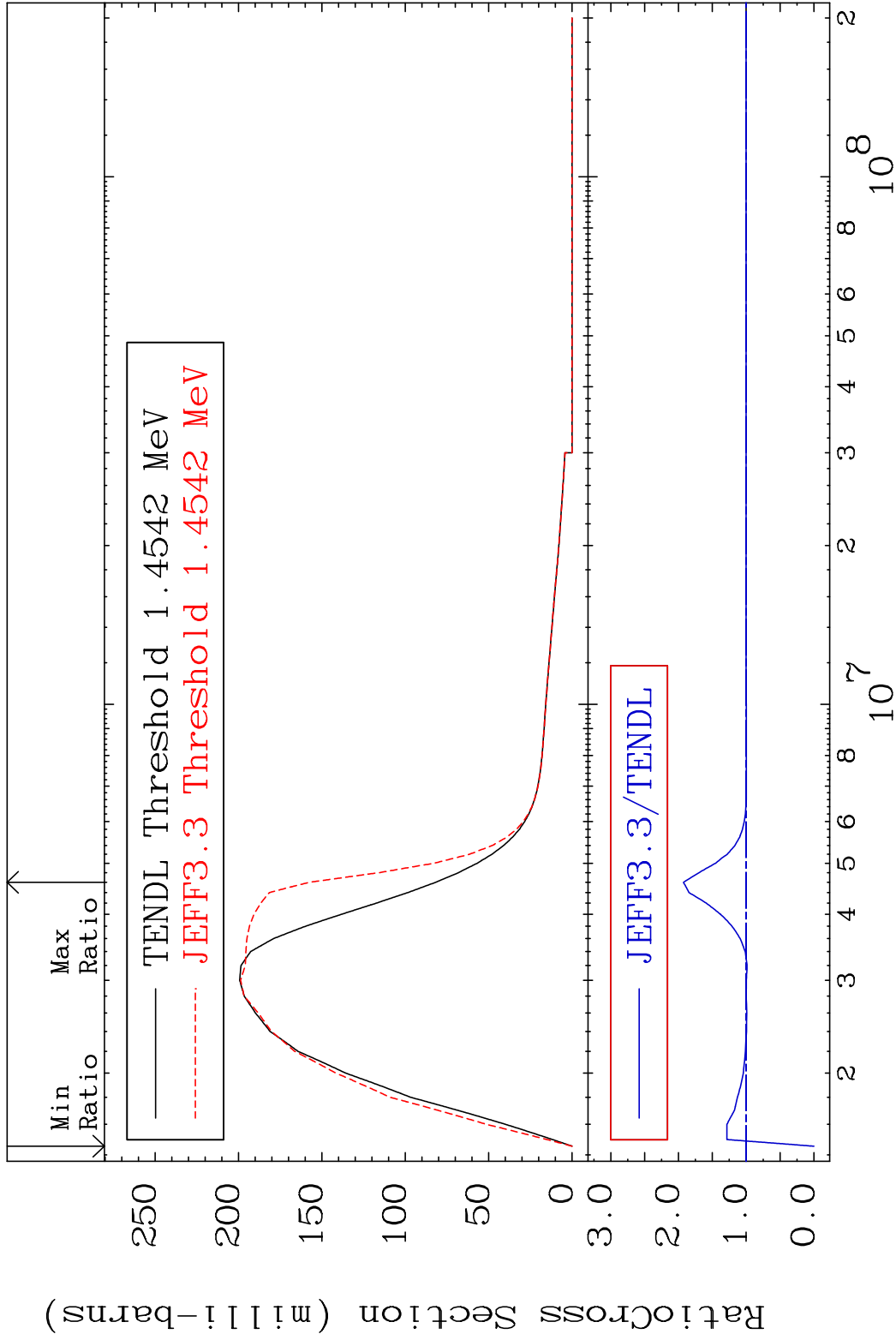


18 Incident Energy (eV) 36-Kr-80

MAT 3631 MT= 53 (n, n') Level 36-Kr-80  
 Cross Section -100.0 To 76.76 %

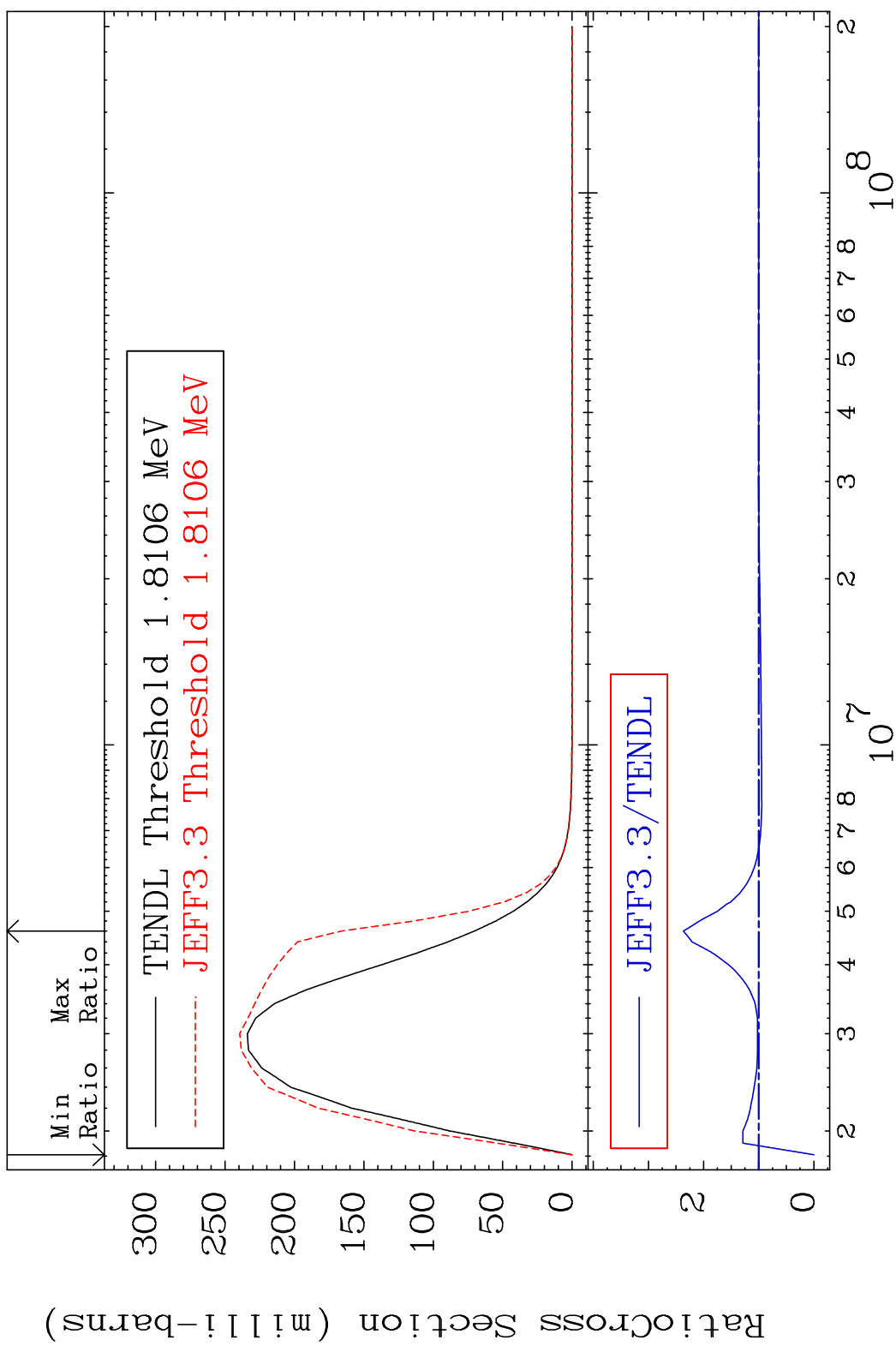


MAT 3631 MT= 54 (n, n') Level 36-Kr-80  
 Cross Section -100.0 To 92.65 %

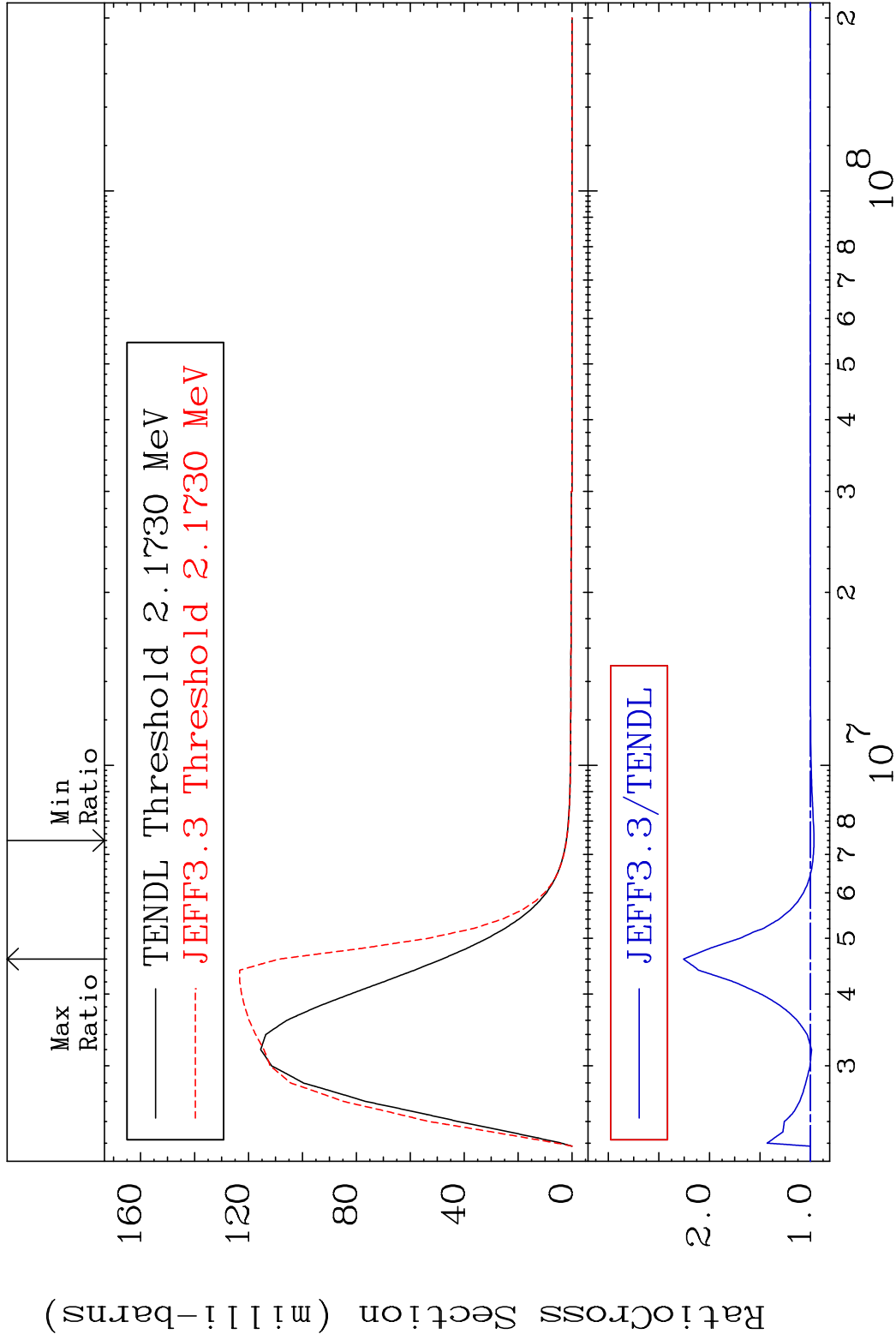


20 Incident Energy (eV) 36-Kr-80

MAT 3631 MT= 55 (n, n') Level 36-Kr-80  
 Cross Section -100.0 To 136.5 %

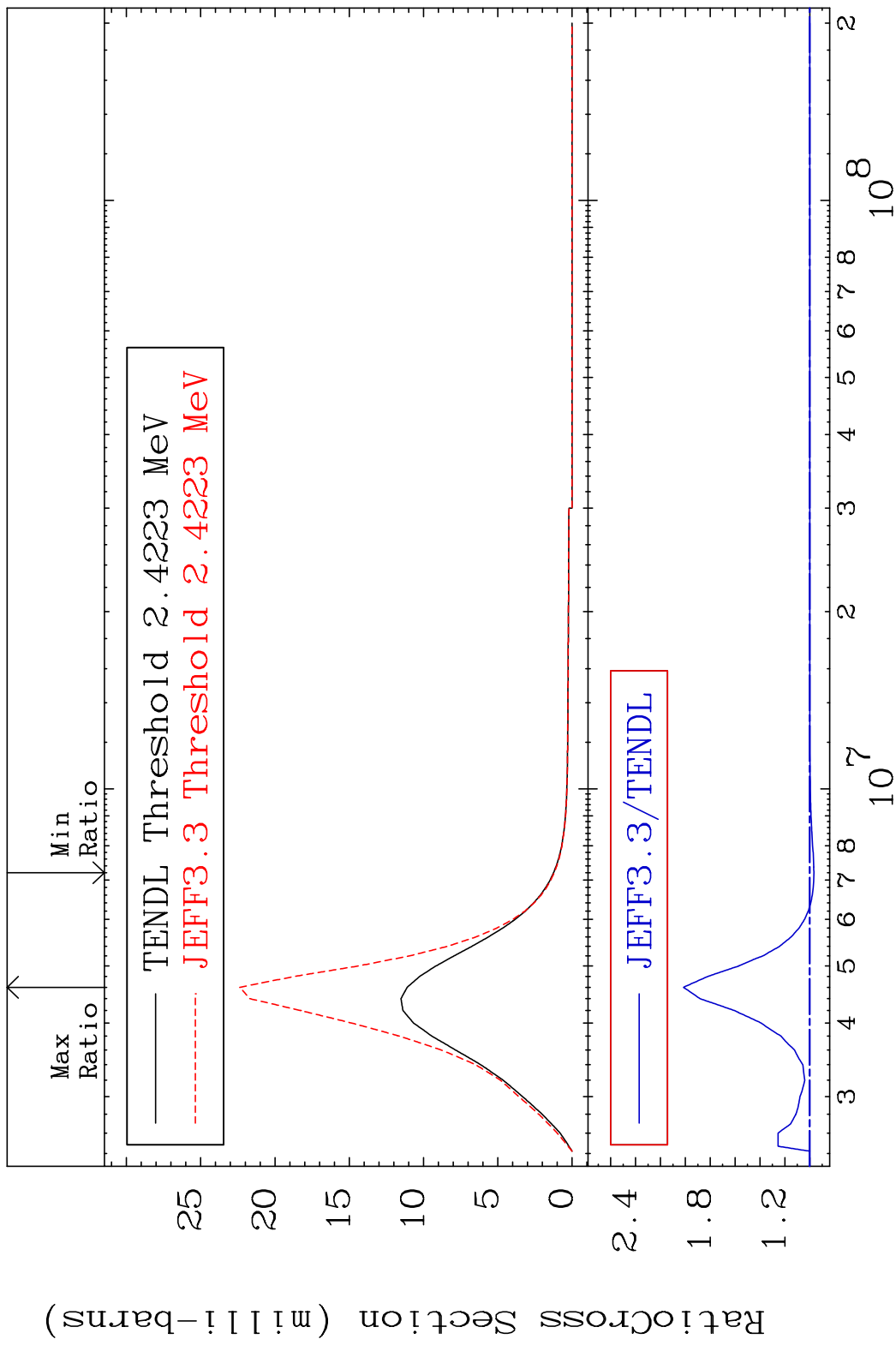


MAT 3631 MT= 56 (n, n') Level 36-Kr-80  
 Cross Section -3.316 To 125.7 %



22 Incident Energy (eV) 36-Kr-80

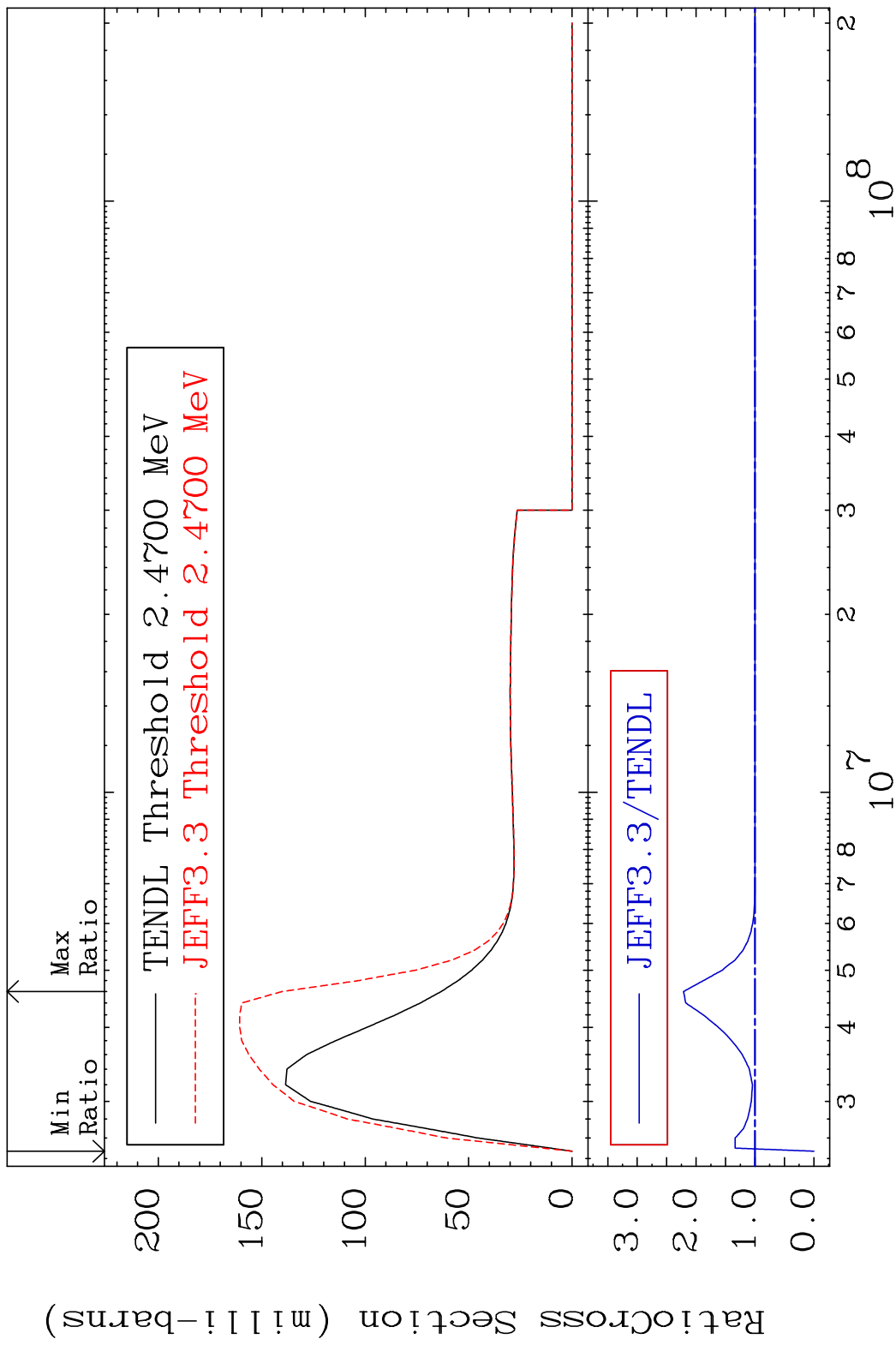
MAT 3631 MT= 57 (n, n') Level 36-Kr-80  
 Cross Section -3.350 To 101.5 %



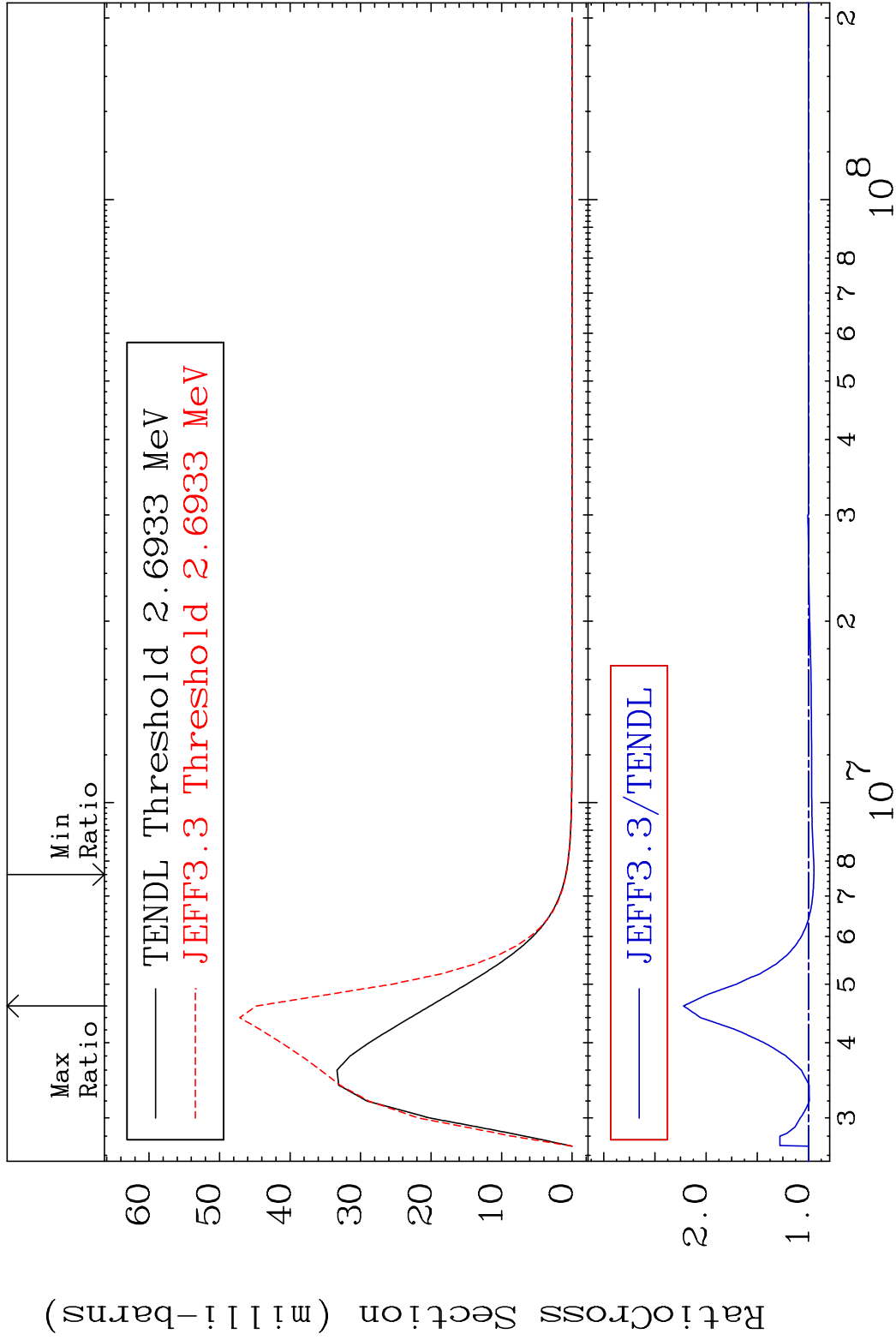
23 36-Kr-80



MAT 3631 MT= 58 (n, n') Level 36-Kr-80  
 Cross Section -100.0 To 121.5 %

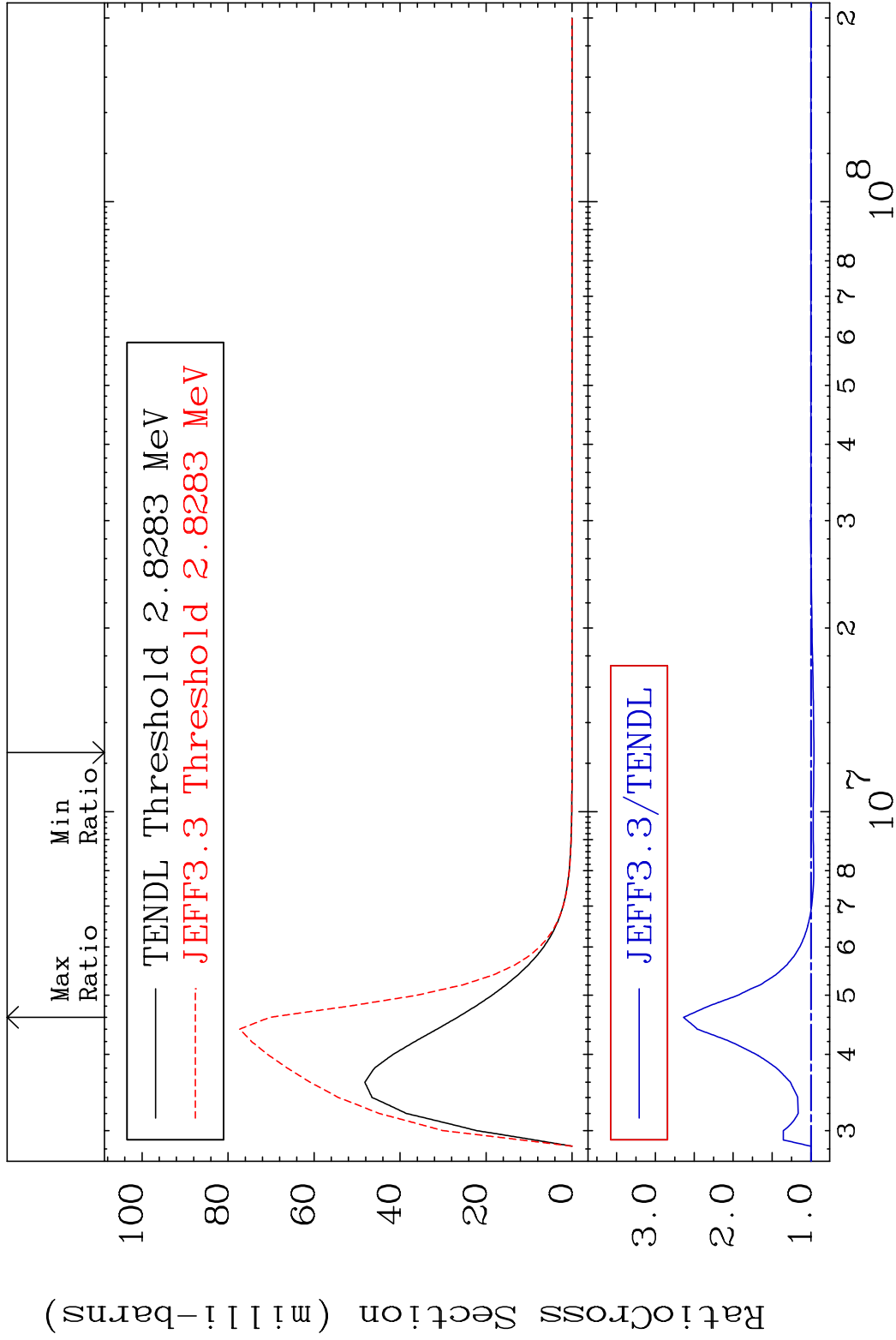


MAT 3631 MT= 59 (n, n') Level 36-Kr-80  
 Cross Section -5.311 To 122.2 %



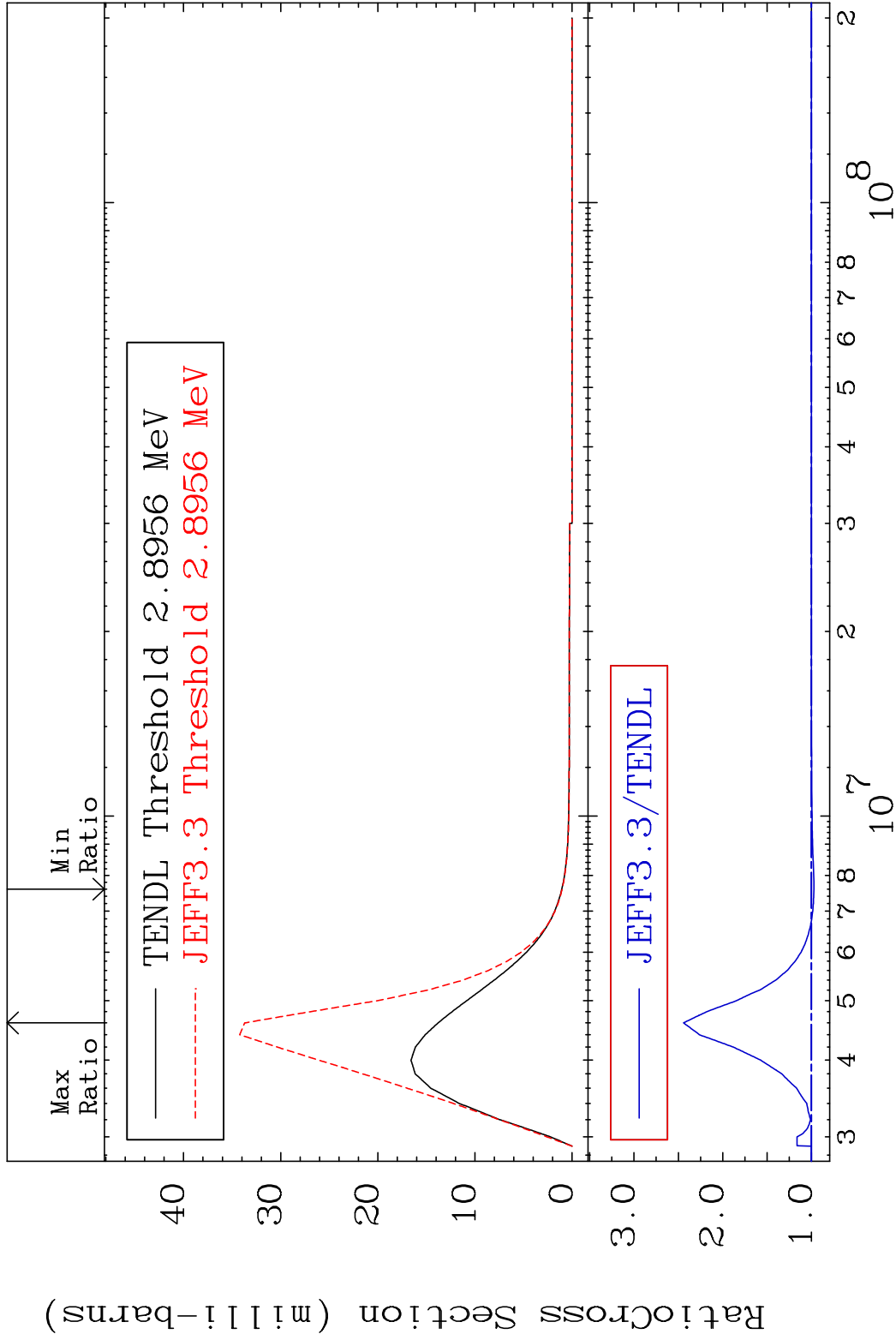
25 36-Kr-80

MAT 3631 MT= 60 (n, n') Level 36-Kr-80  
 Cross Section -3.807 To 163.9 %

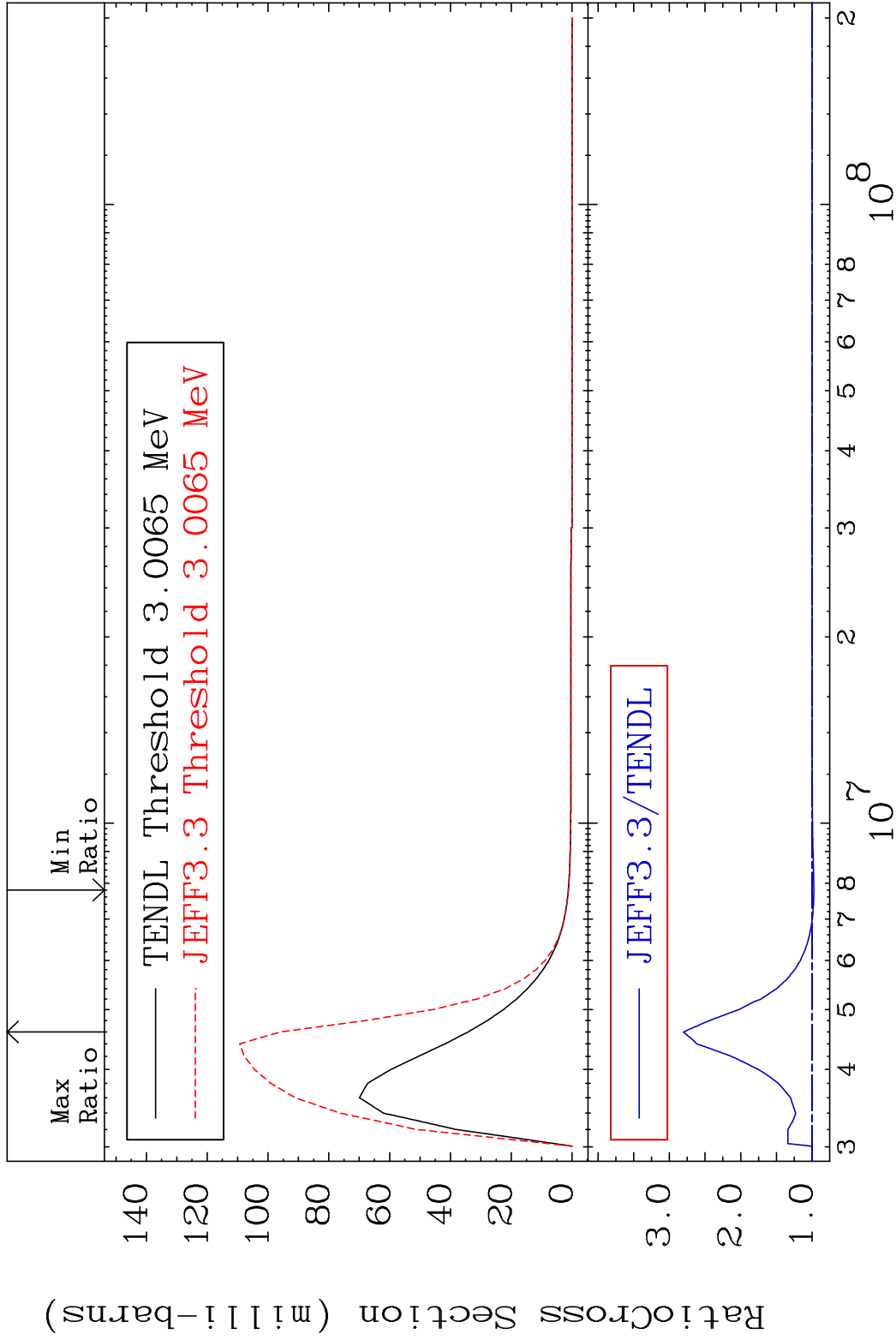


26 Incident Energy (eV) 36-Kr-80

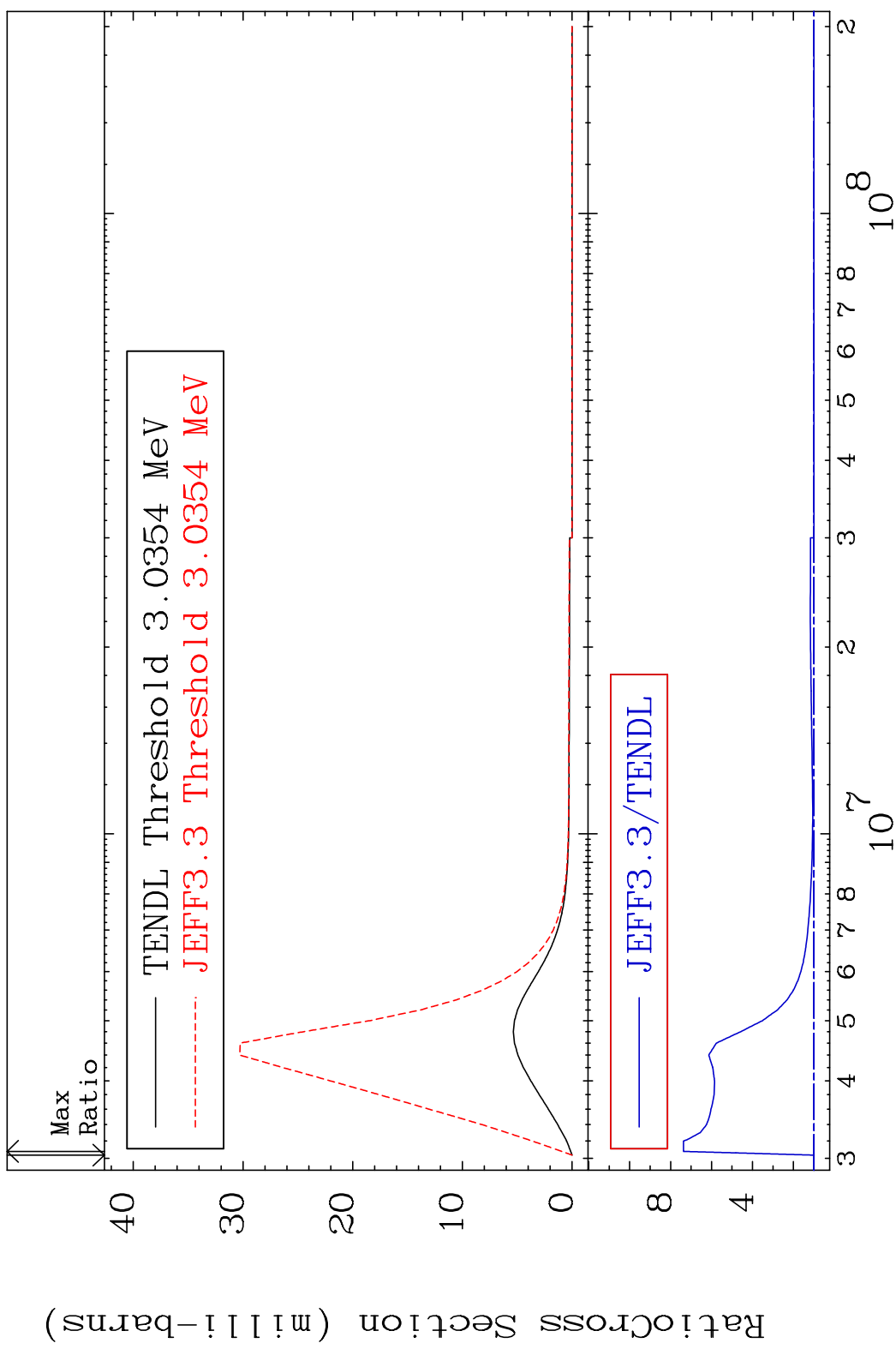
MAT 3631 MT= 61 (n, n') Level 36-Kr-80  
 Cross Section -2.752 To 144.3 %



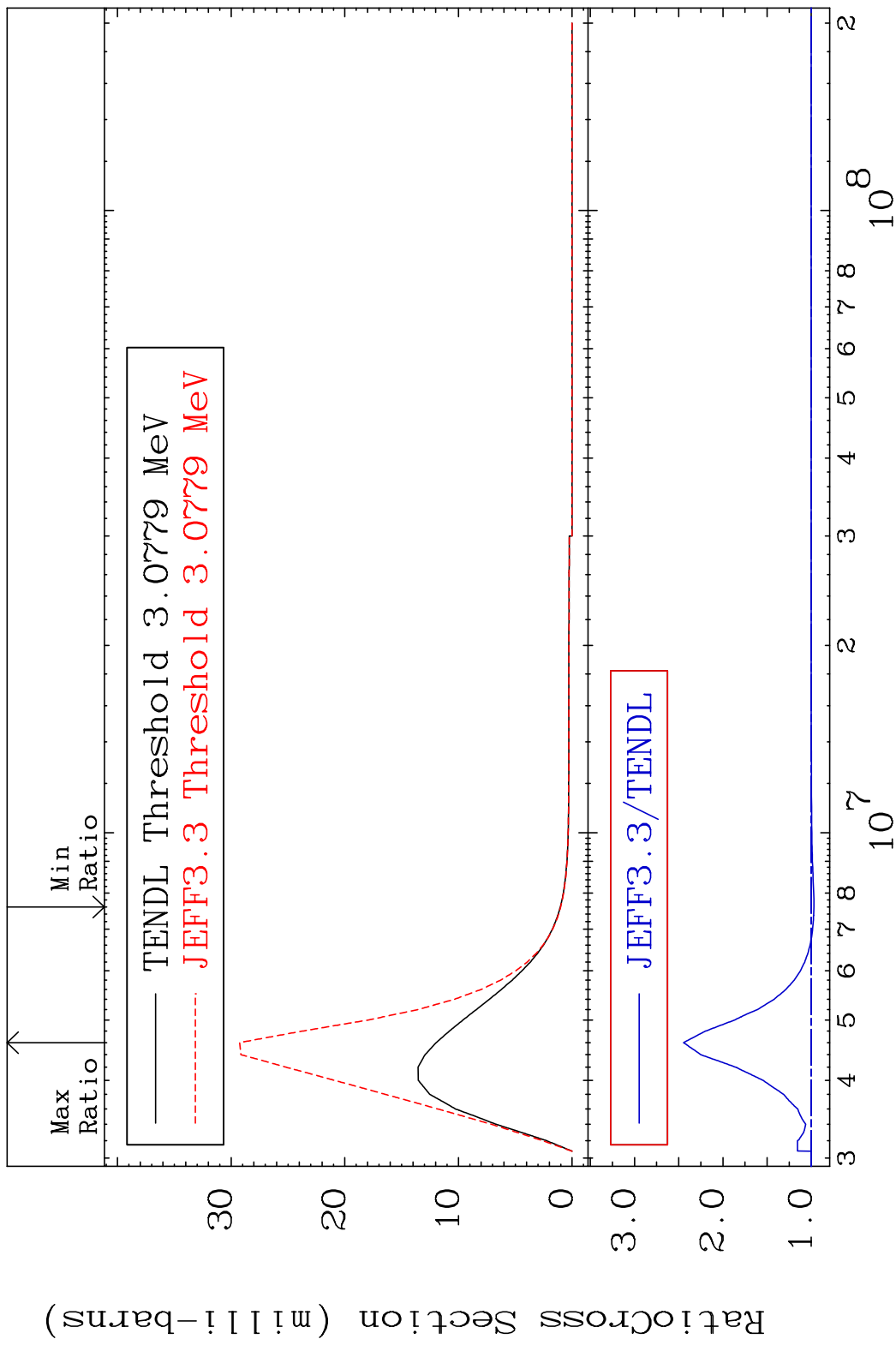
MAT 3631 MT= 62 (n, n') Level 36-Kr-80  
 Cross Section -2.490 To 180.3 %



MAT 3631 MT= 63 (n, n') Level 36-Kr-80  
 Cross Section 0.000 To 637.1 %

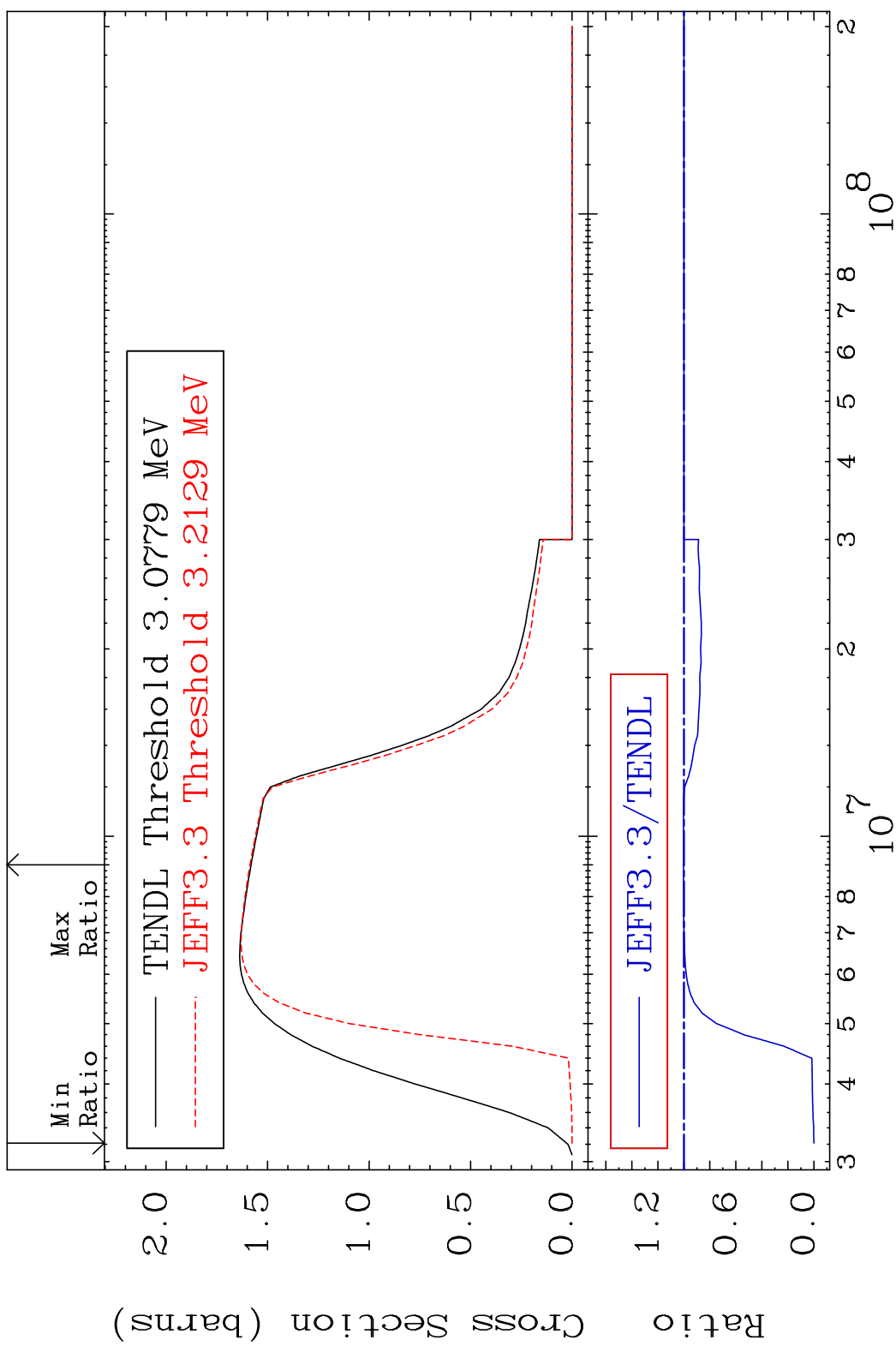


MAT 3631 MT= 64 (n, n') Level 36-Kr-80  
 Cross Section -2.951 To 144.7 %



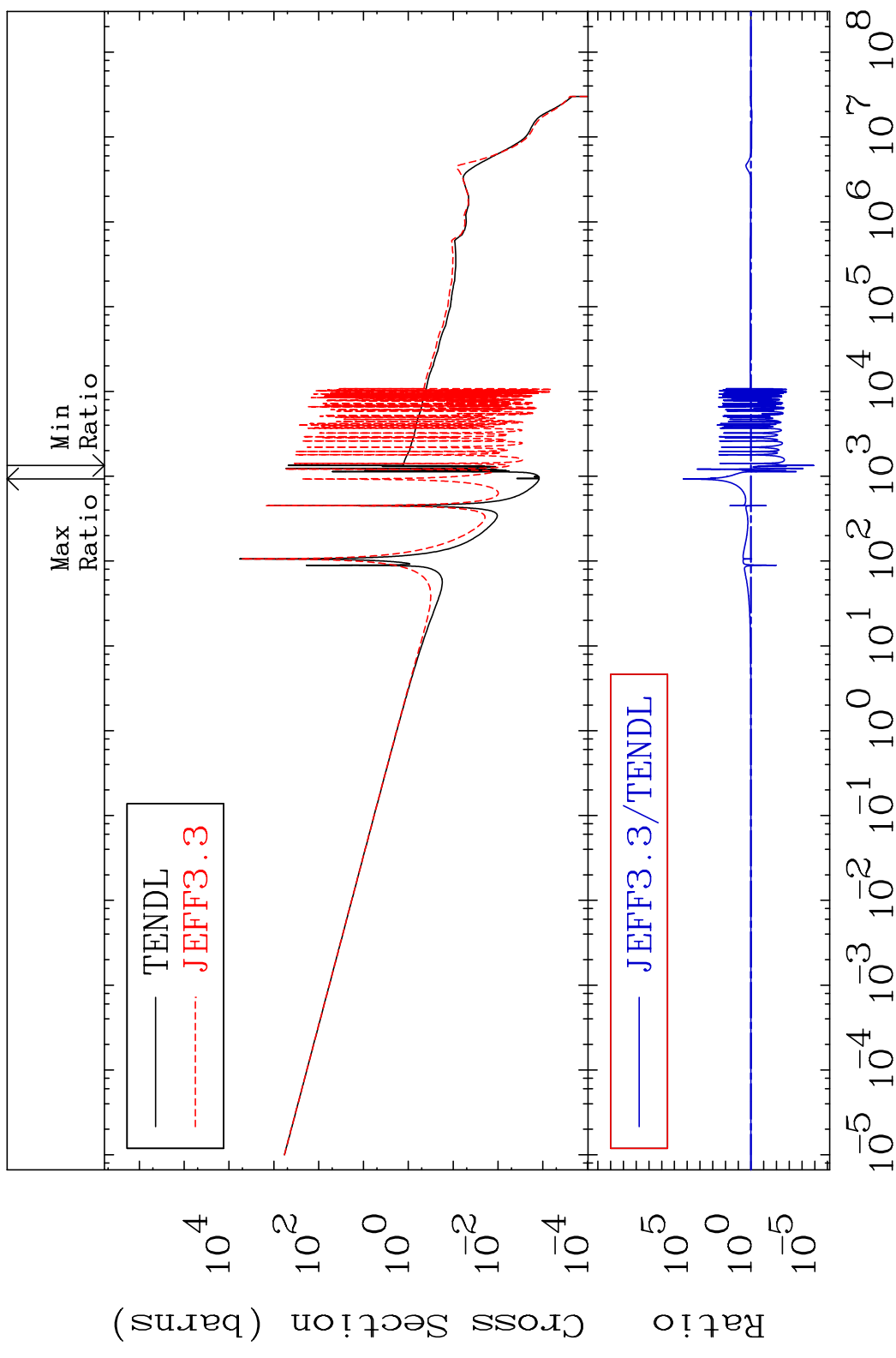
30 36-Kr-80

MAT 3631 (n, n') Continuum 36-Kr-80  
 Cross Section -100.0 To 0.313 %

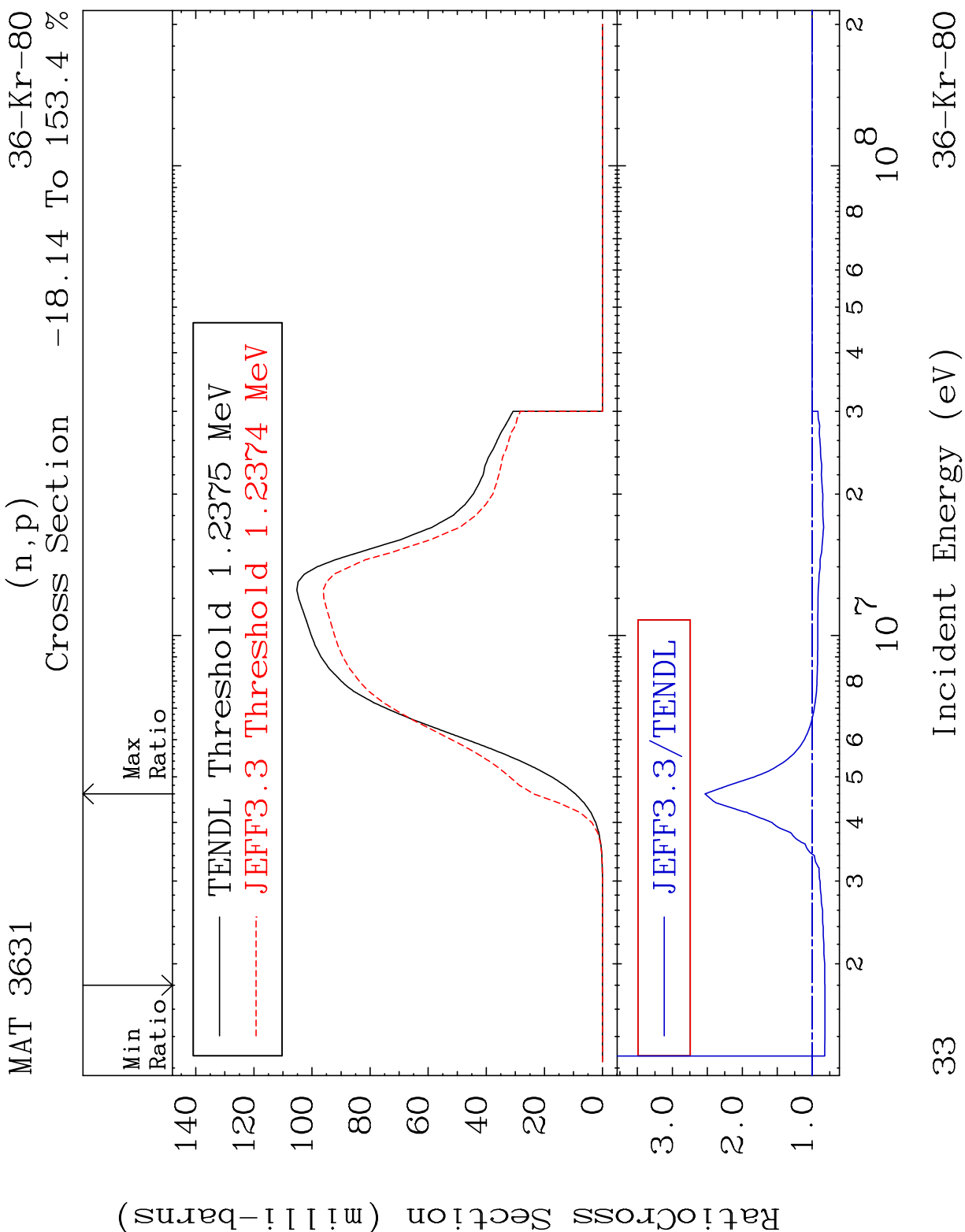


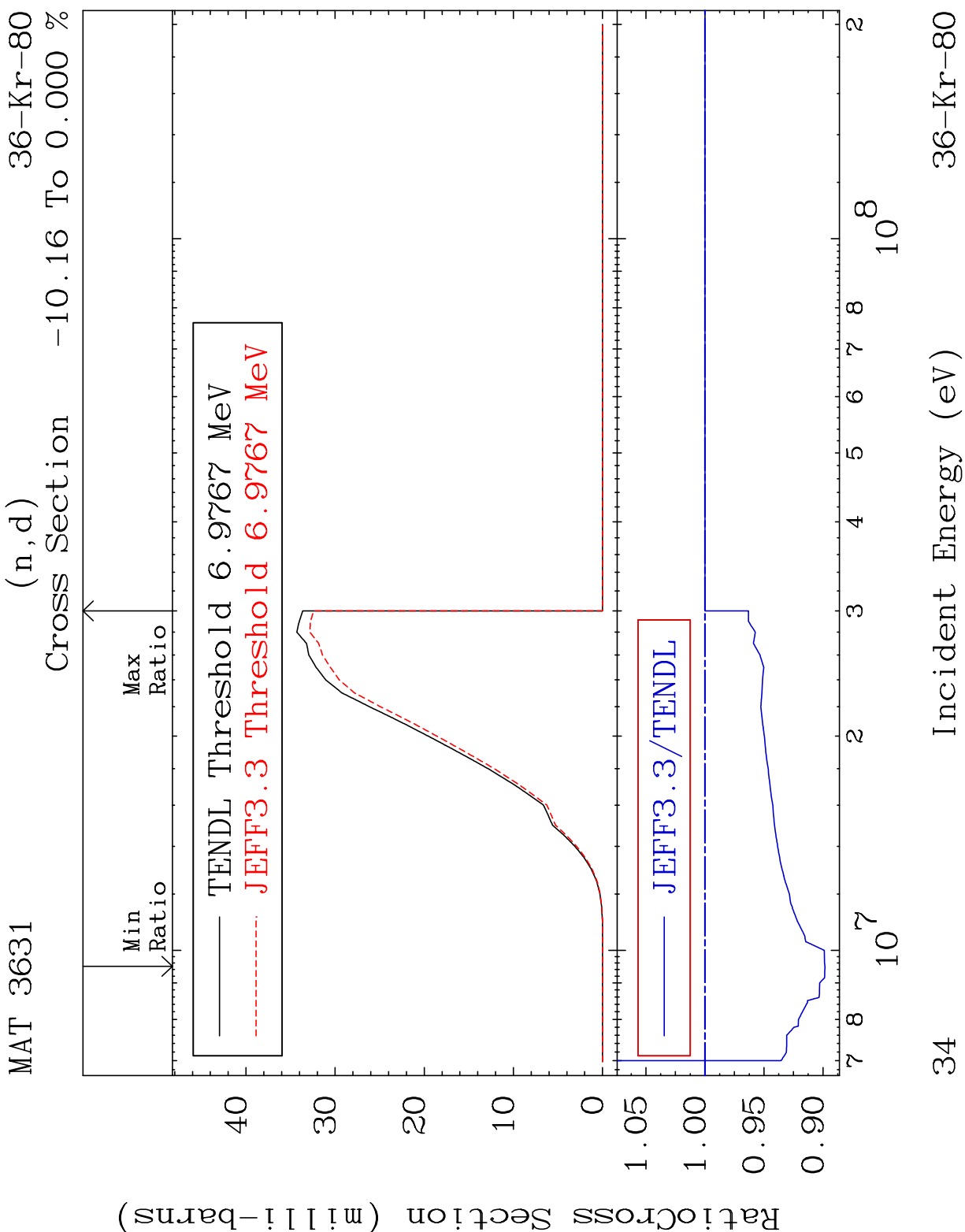


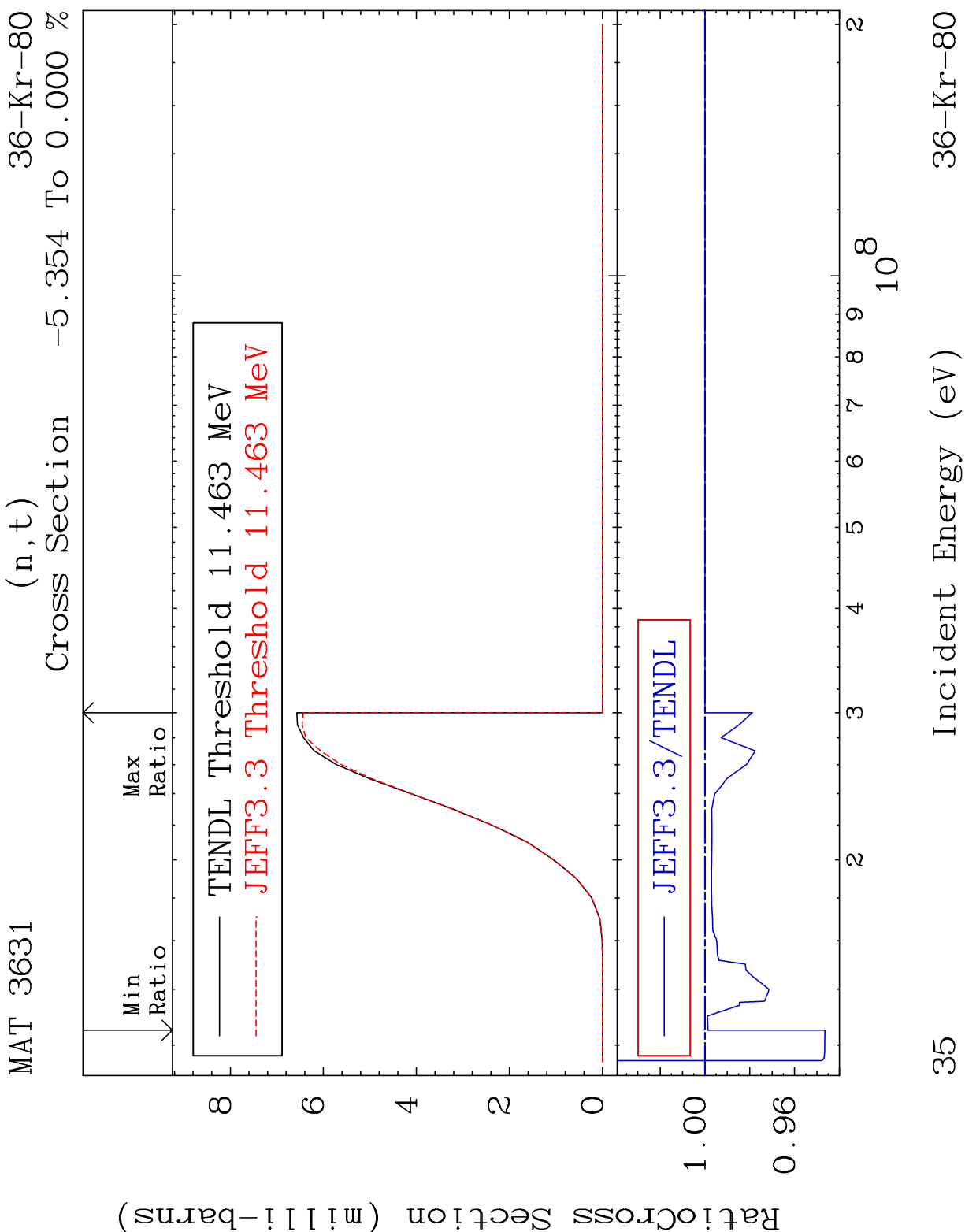
MAT 3631  $(n, \gamma)$  36-Kr-80  
 Cross Section -100.0 To 9999. %

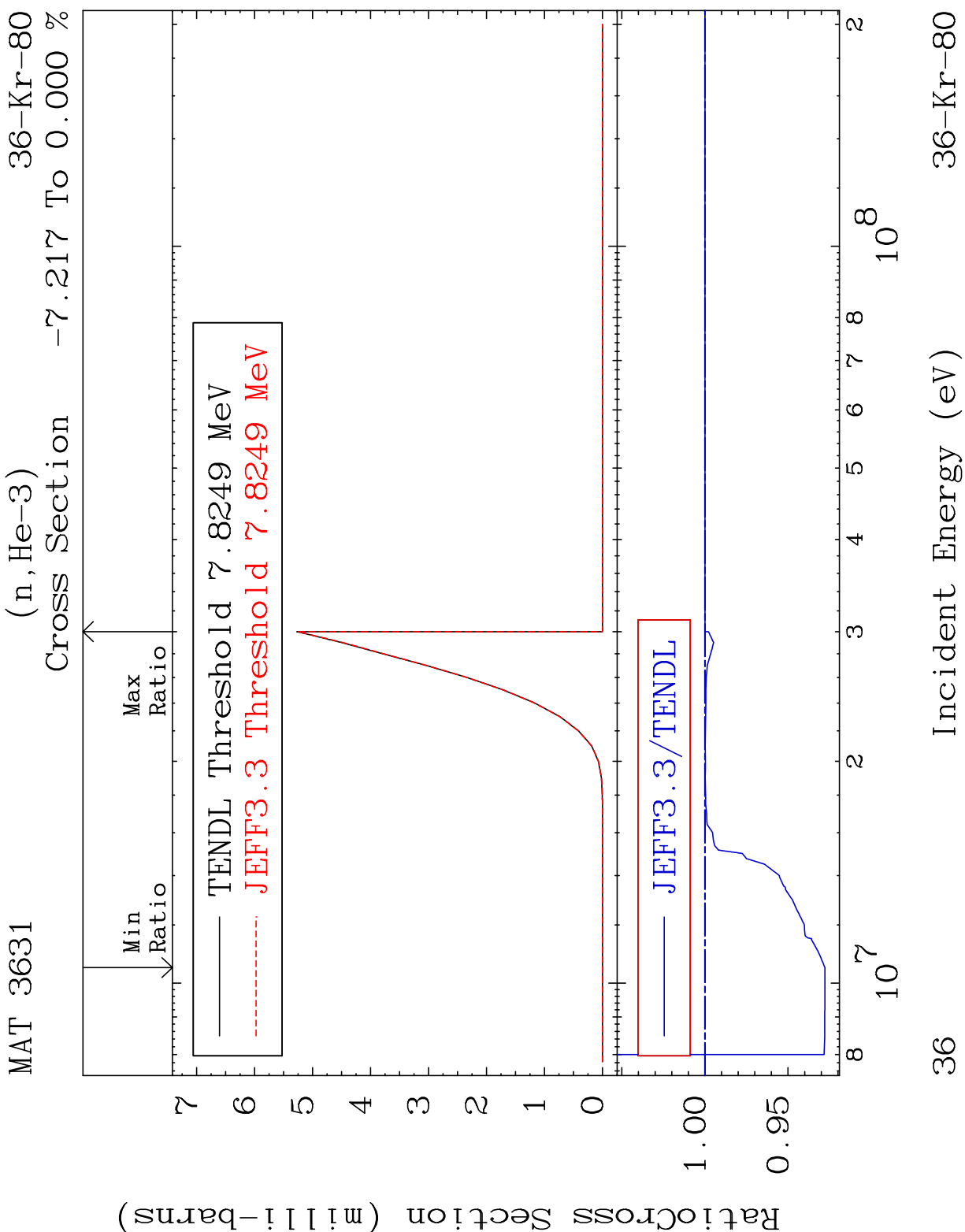


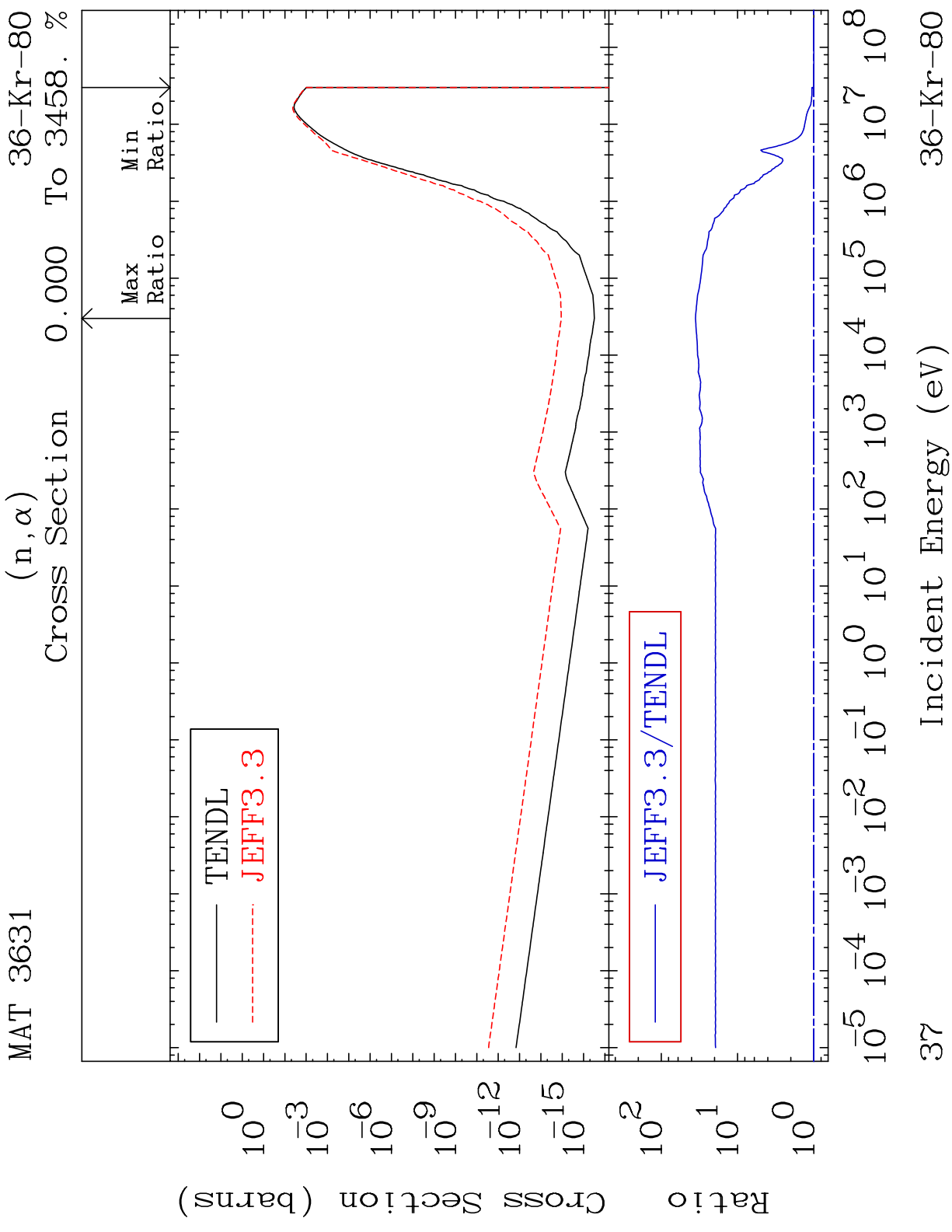
32 Incident Energy (eV) 36-Kr-80

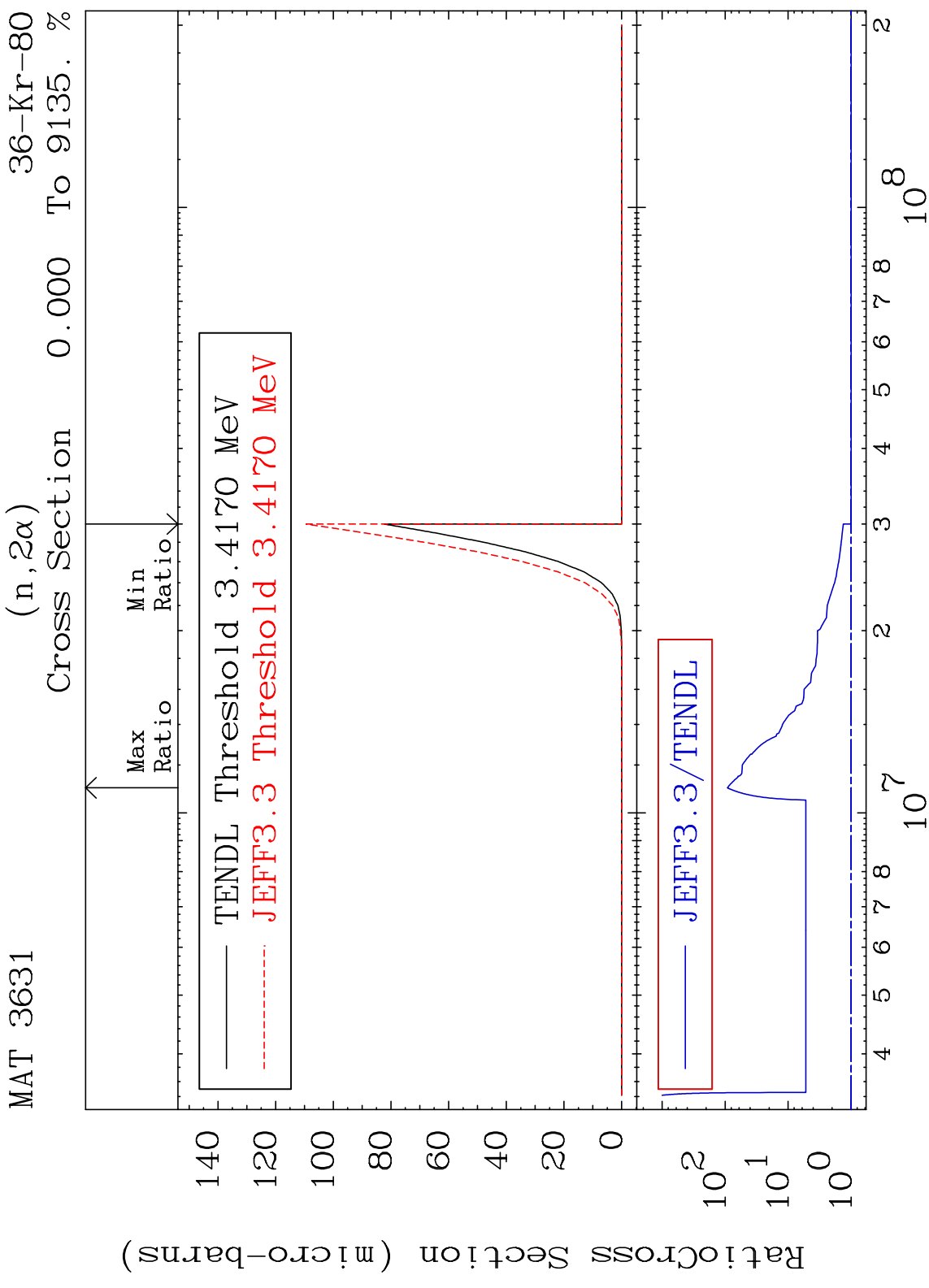


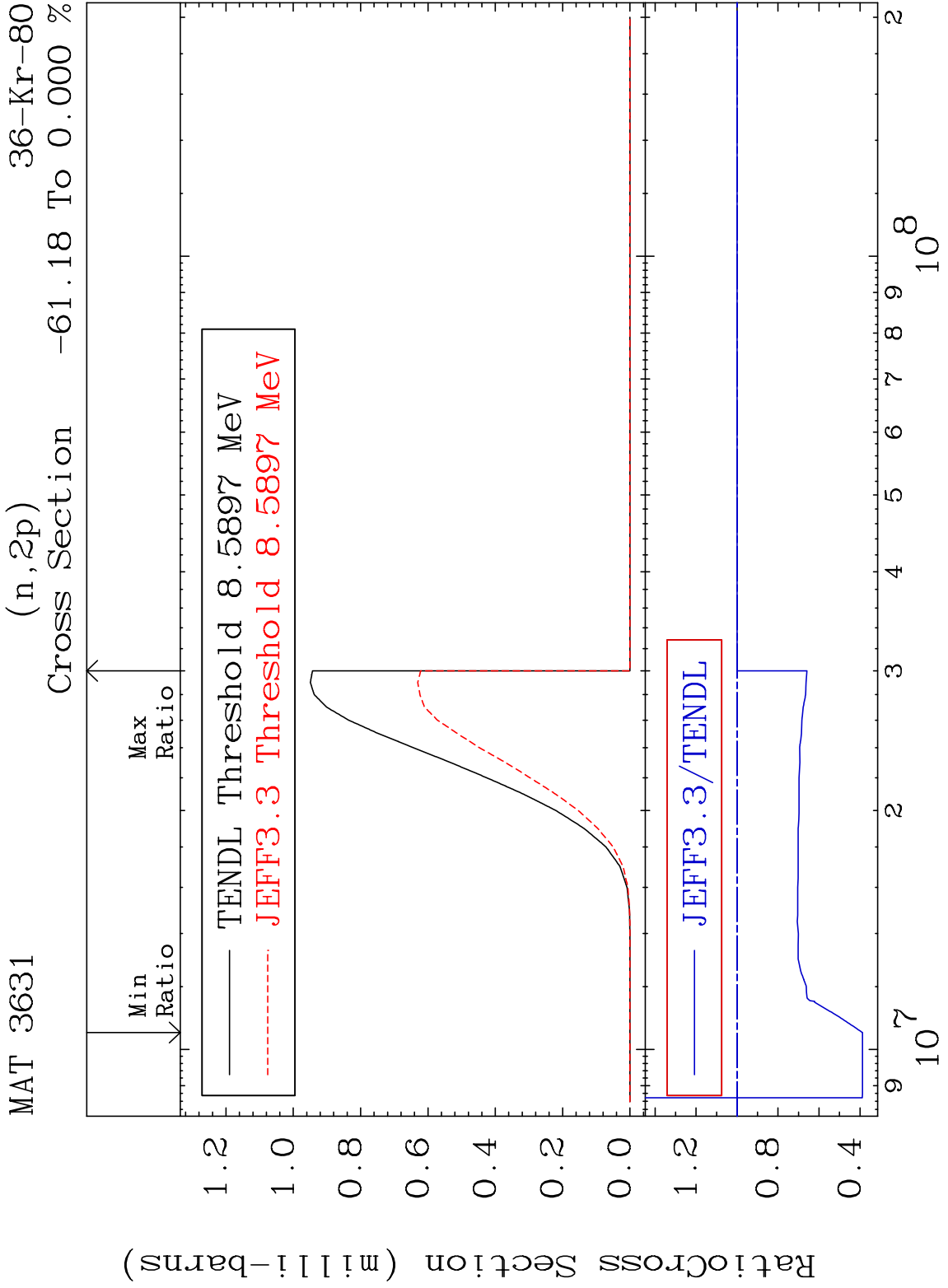






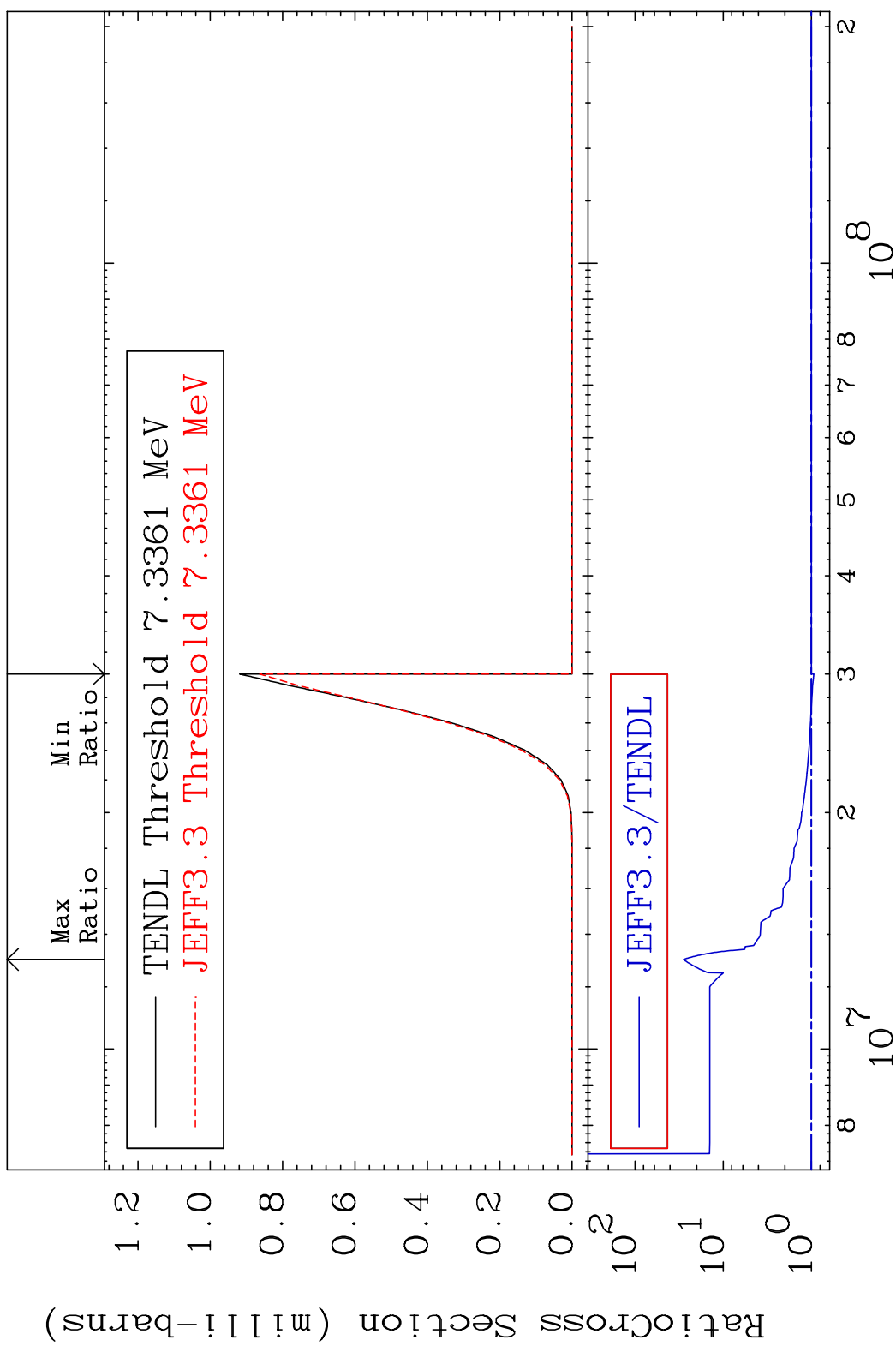






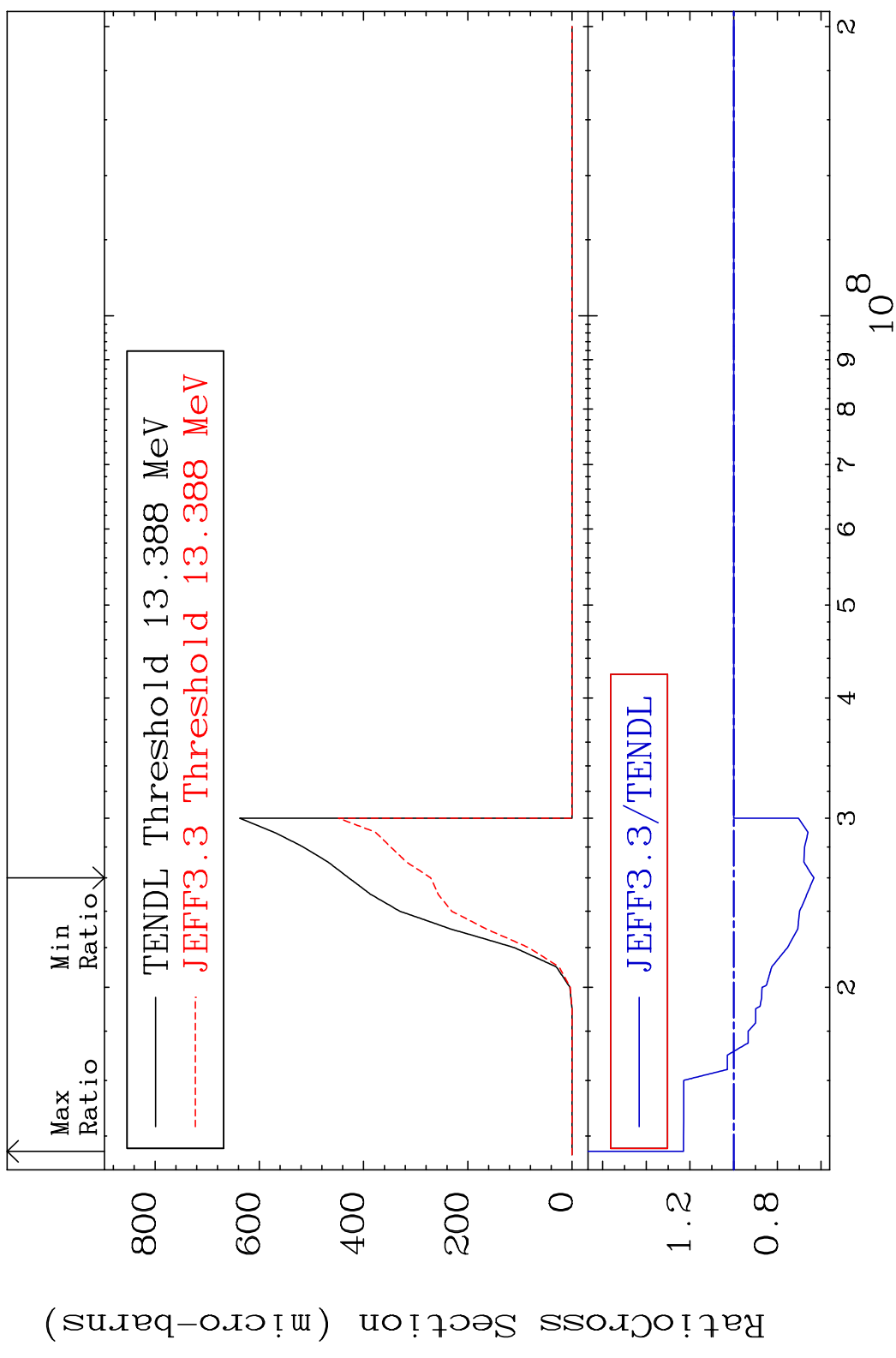


MAT 3631 (n,p)  $\alpha$  36-Kr-80  
 Cross Section -6.076 To 2723. %



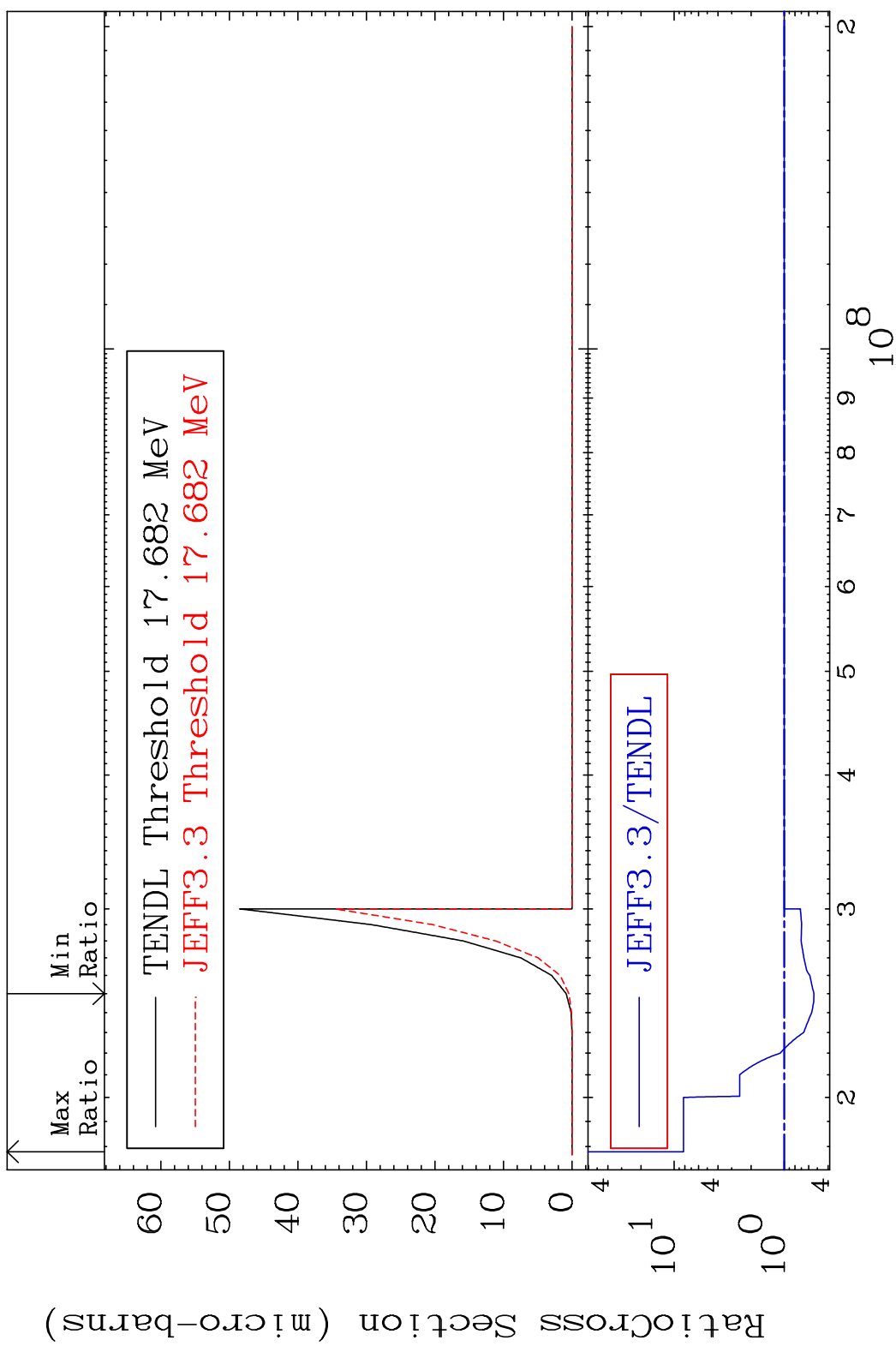
40 36-Kr-80

MAT 3631 (n,p) d 36-Kr-80  
 Cross Section -36.72 To 22.99 %



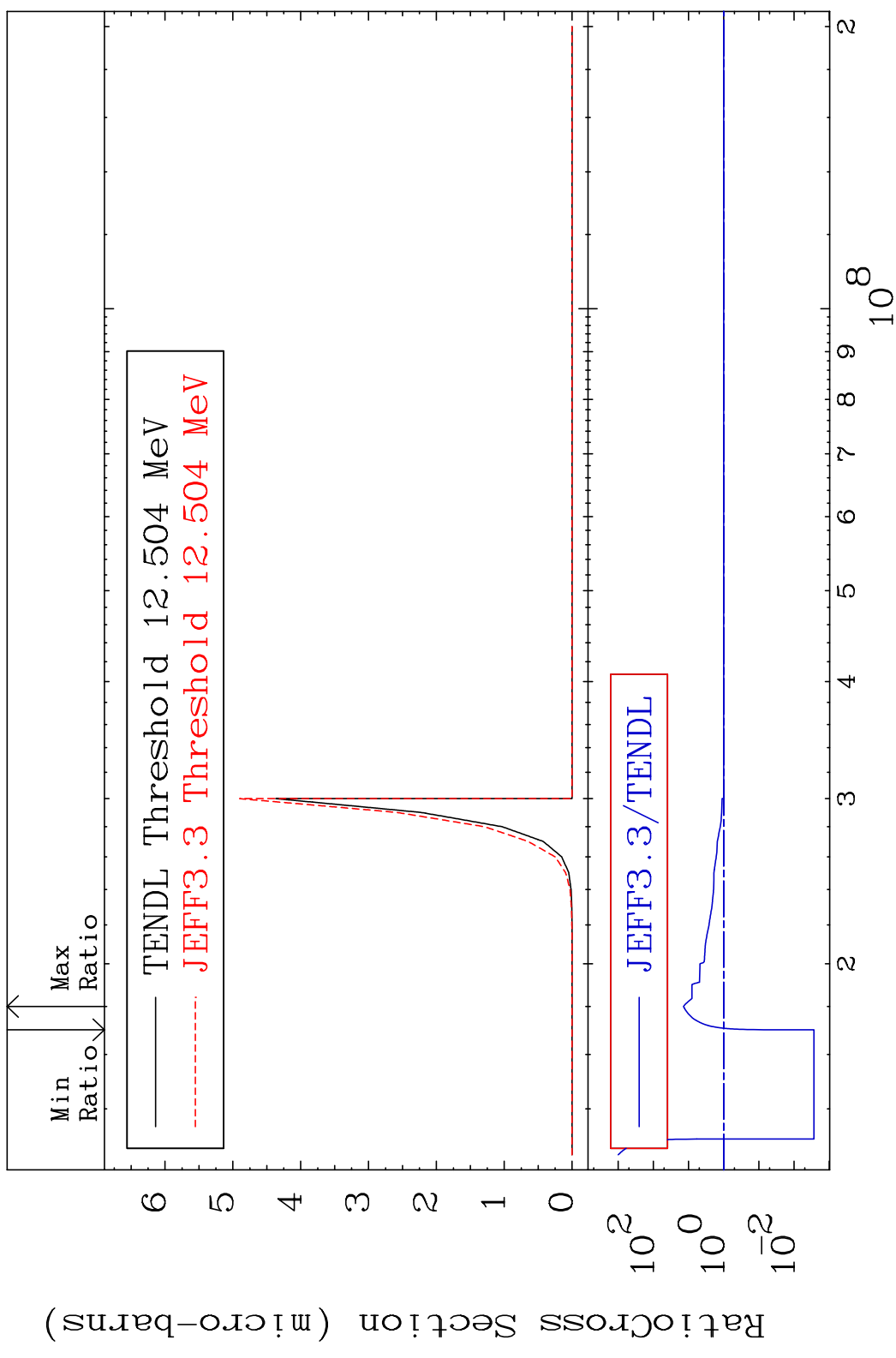
41 Incident Energy (eV) 36-Kr-80

MAT 3631 (n,p) t 36-Kr-80  
 Cross Section -46.20 To 723.2 %



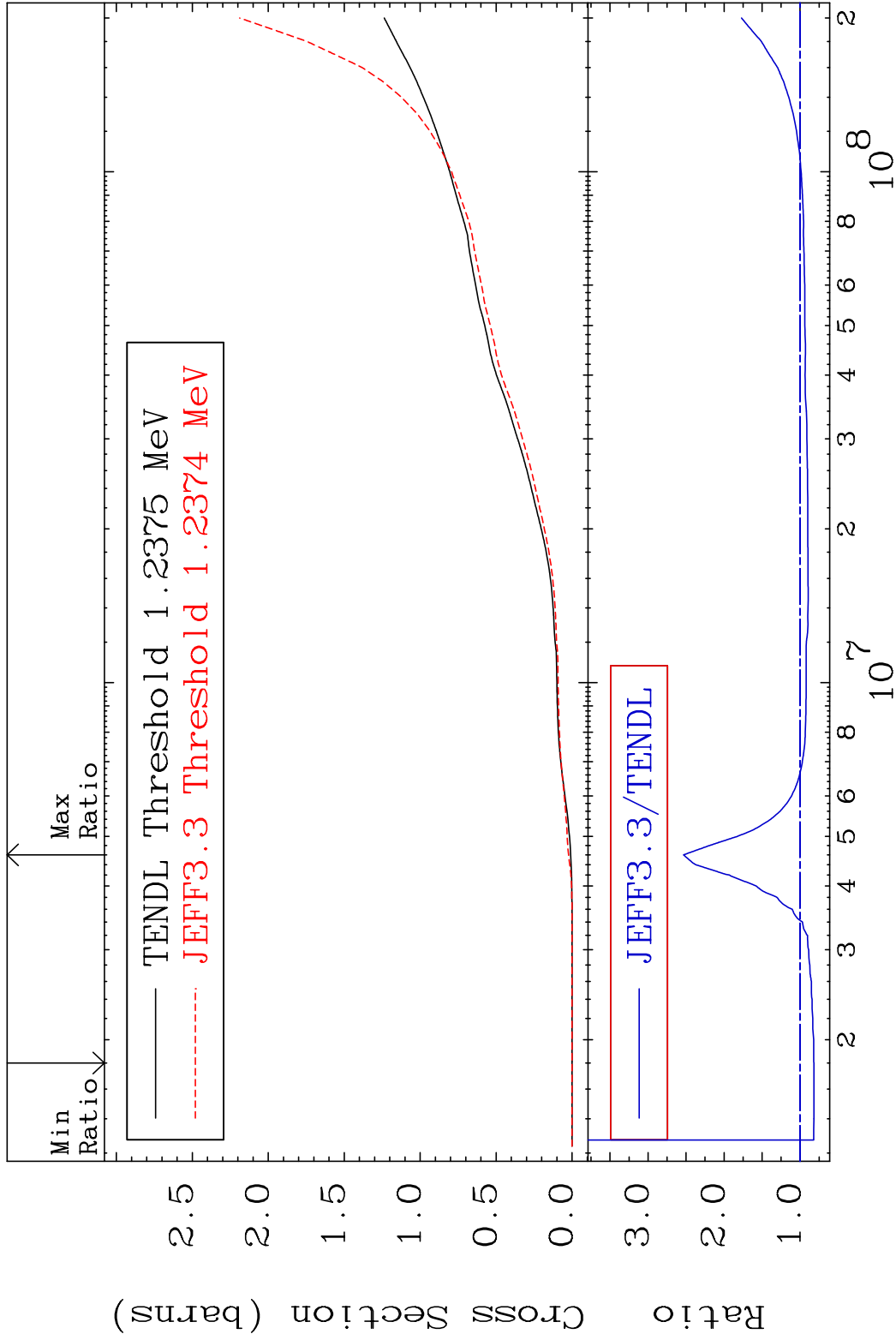
42 Incident Energy (eV) 36-Kr-80

MAT 3631 (n, d)  $\alpha$  36-Kr-80  
 Cross Section -99.73 To 1302. %



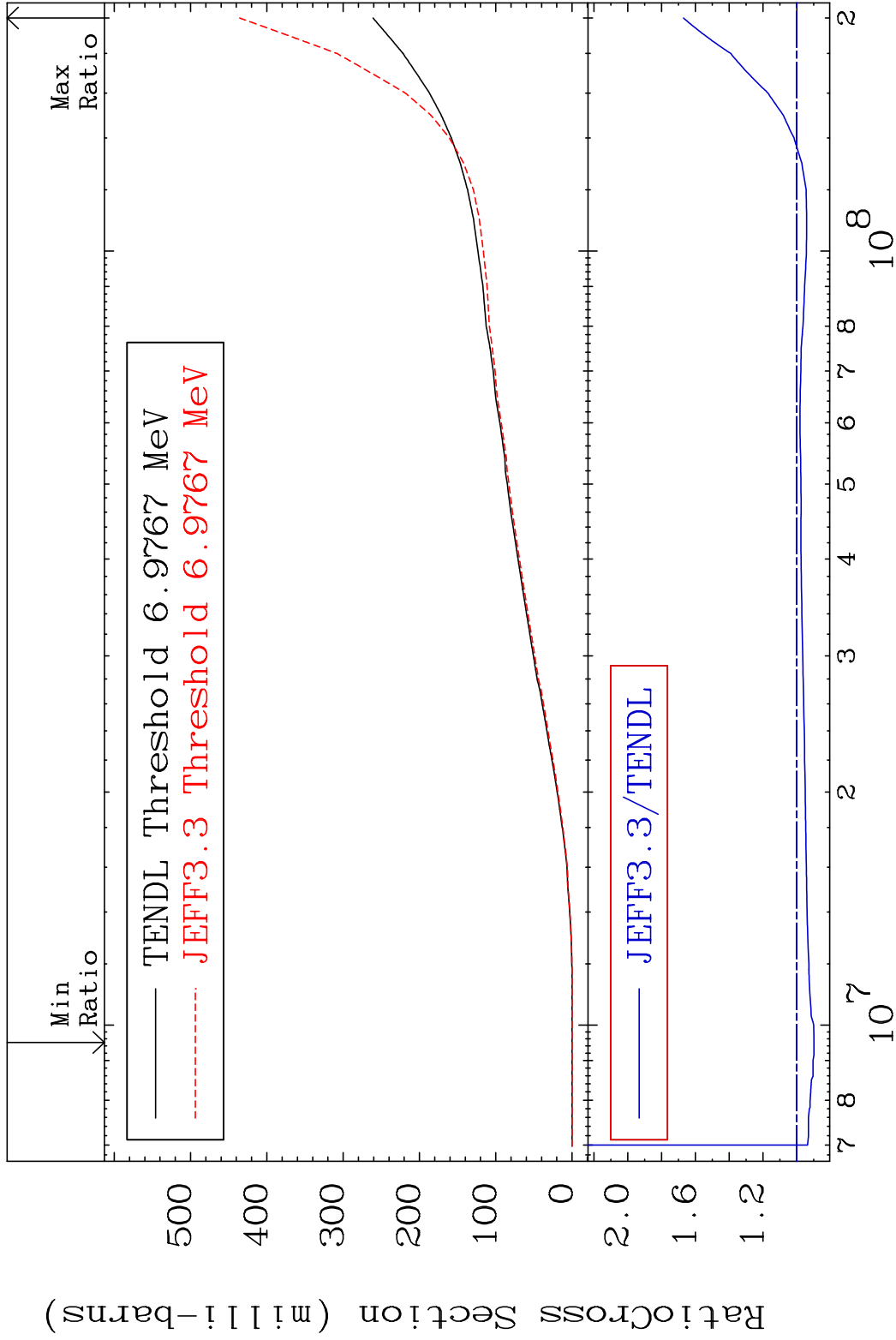
43 36-Kr-80

MAT 3631 Hydrogen Production 36-Kr-80  
 Cross Section -18.14 To 153.4 %



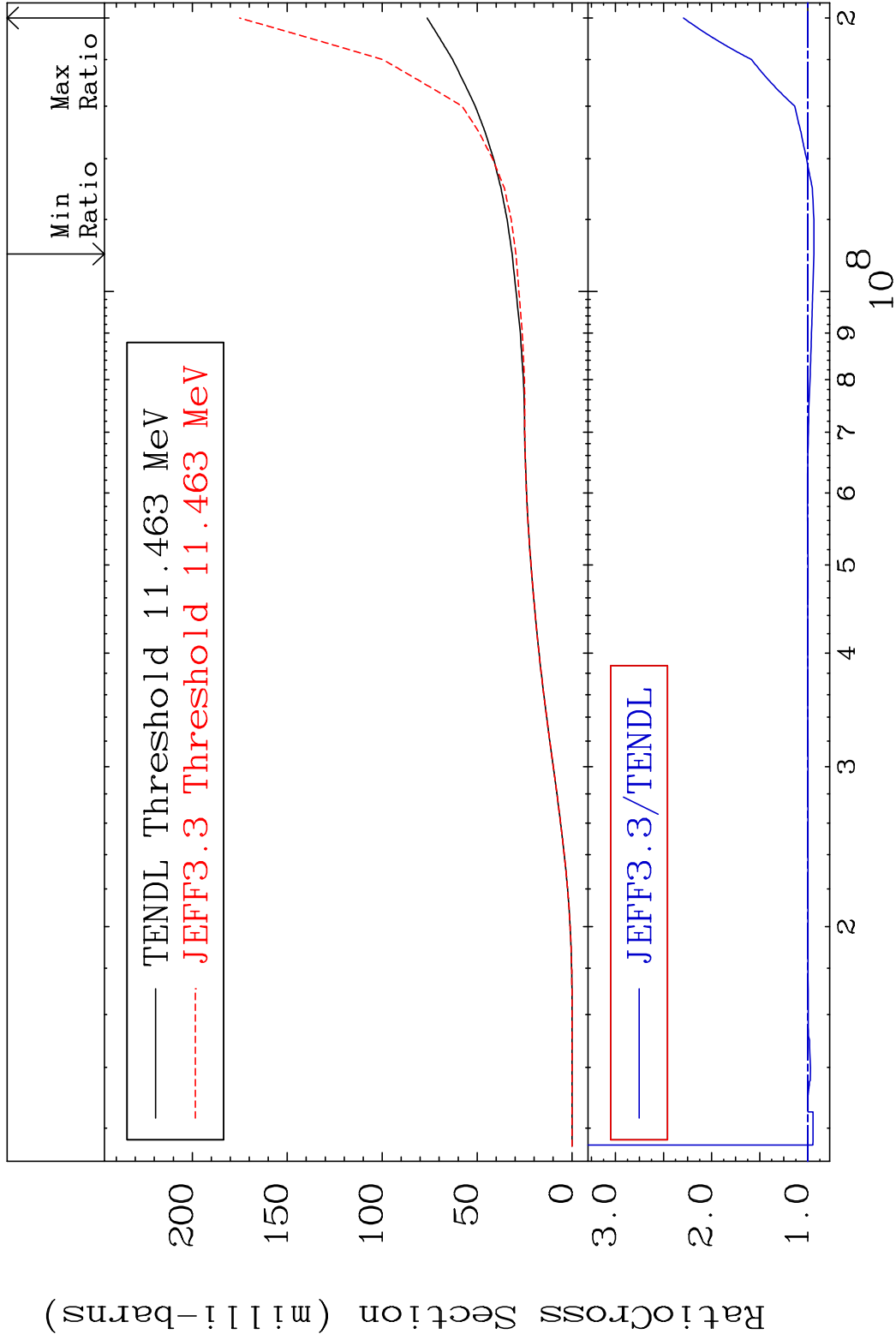
44 Incident Energy (eV) 36-Kr-80

MAT 3631 Deuterium Production 36-Kr-80  
 Cross Section -10.16 To 66.99 %



45 36-Kr-80

MAT 3631 Tritium Production 36-Kr-80  
 Cross Section -6.330 To 129.3 %



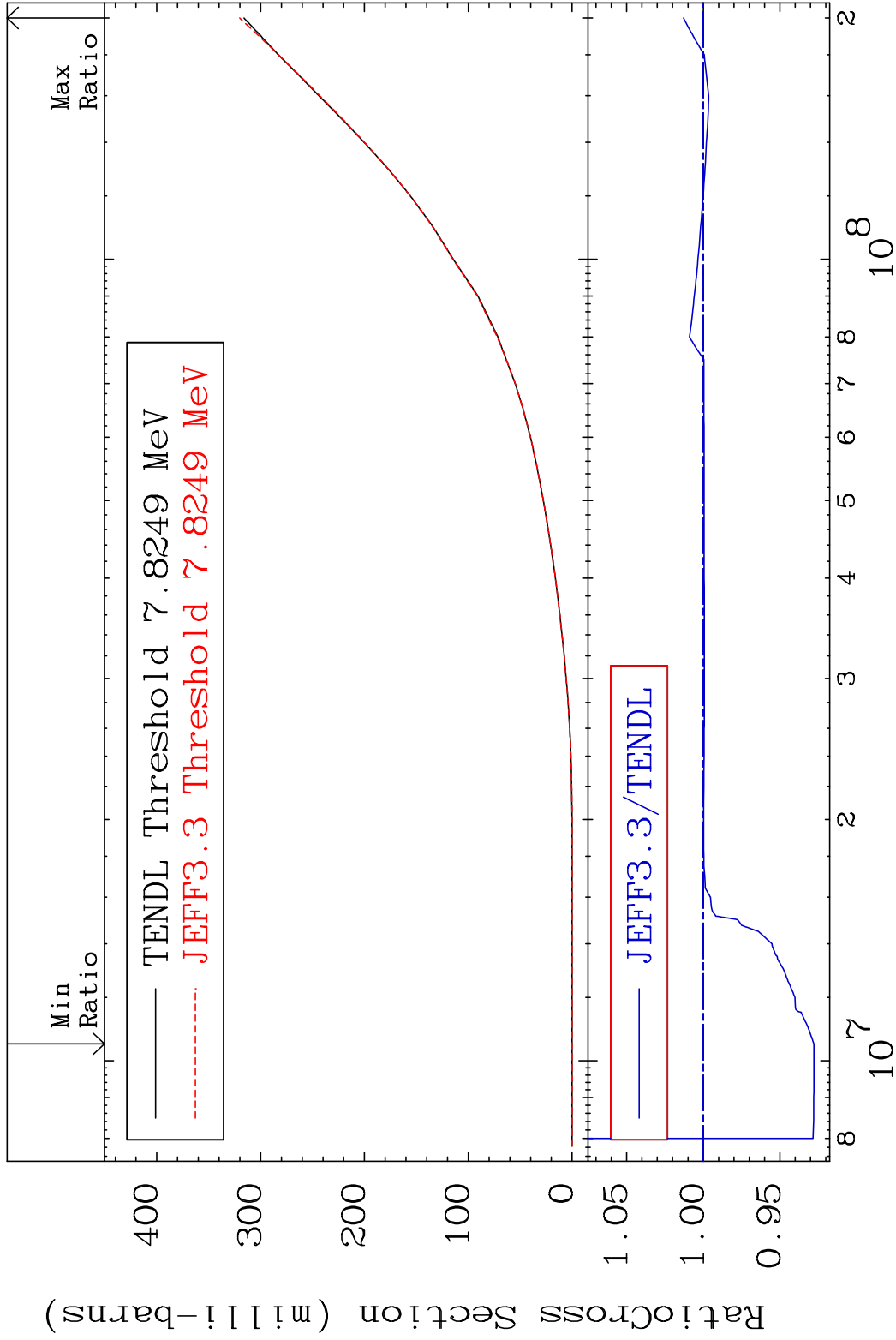
46 Incident Energy (eV) 36-Kr-80

MAT 3631

He-3 Production

36-Kr-80

Cross Section -7.217 To 1.293 %



47

Incident Energy (eV)

36-Kr-80

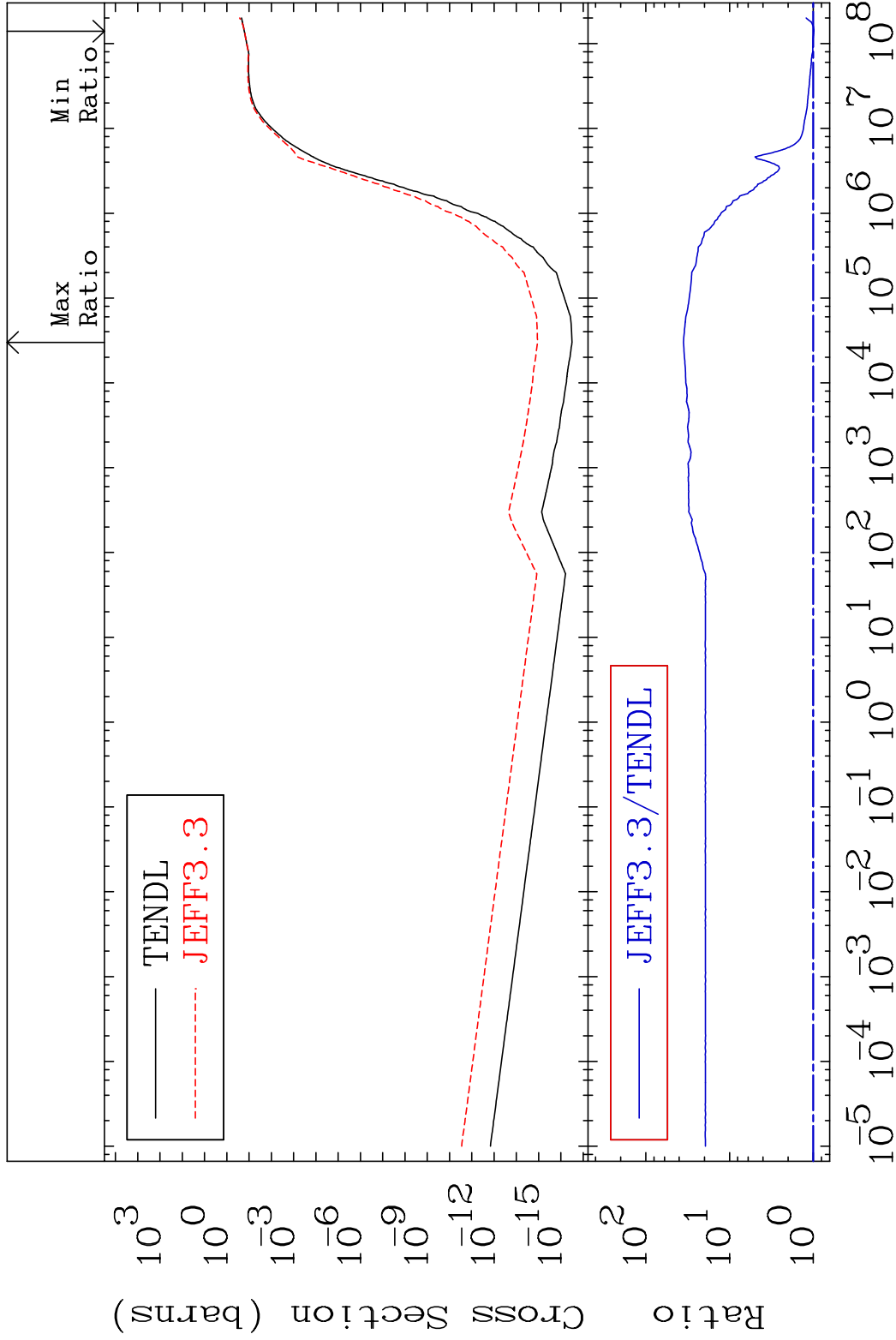


MAT 3631

He-4 Production

36-Kr-80

Cross Section -1.667 To 3458. %

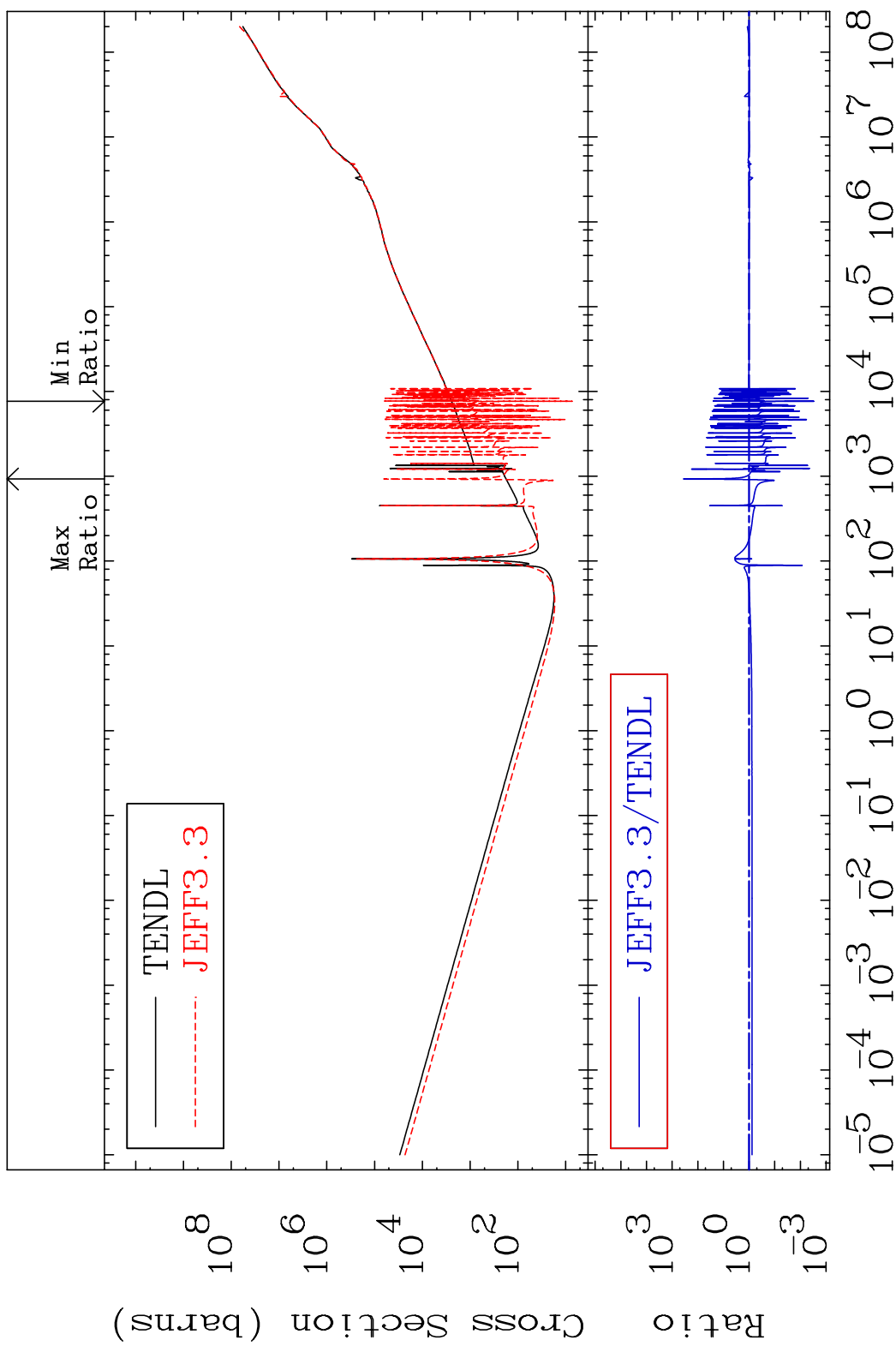


48

Incident Energy (eV)

36-Kr-80

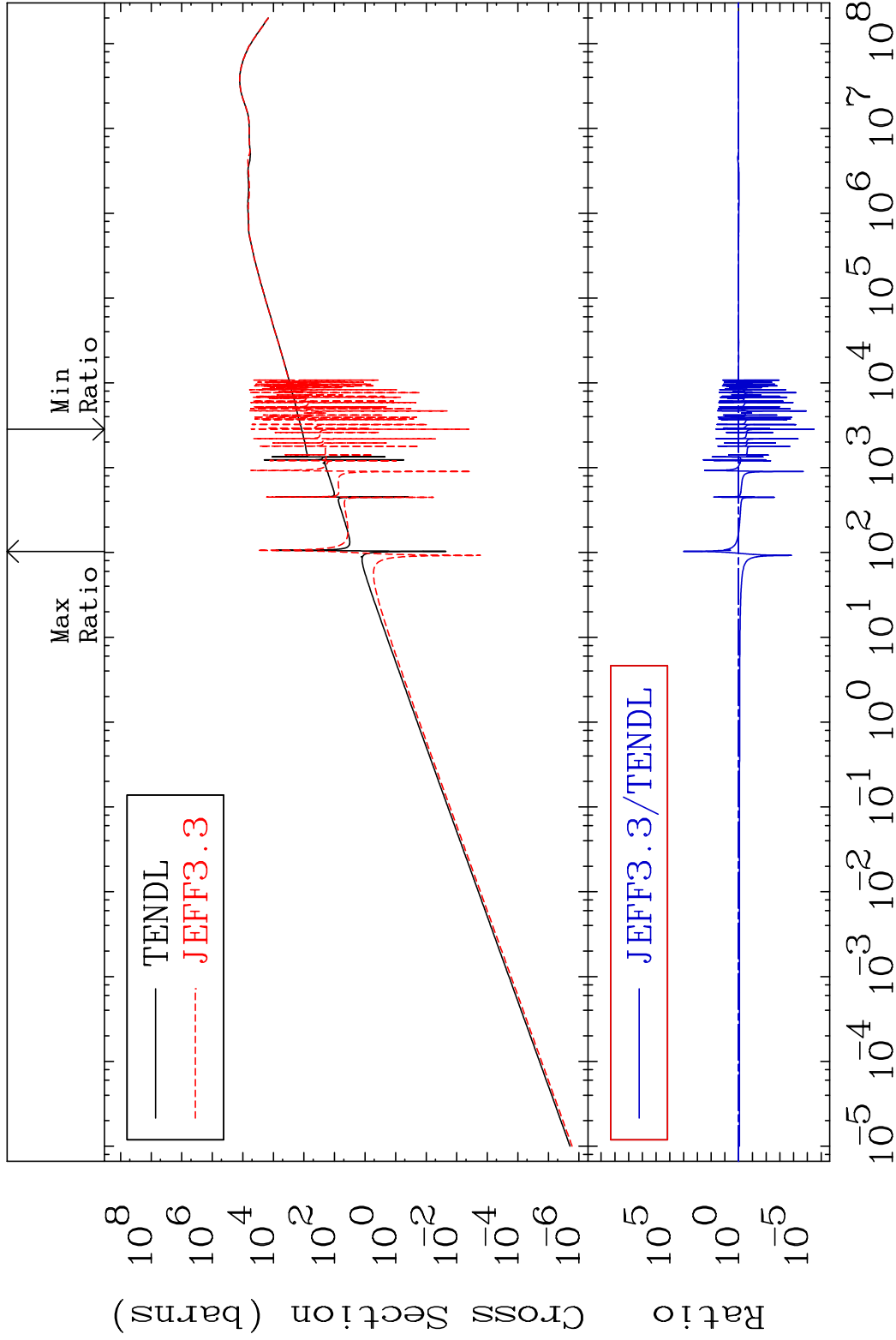
MAT 3631 Kerma total (eV-barns) 36-Kr-80  
 Cross Section -99.70 To 9999. %



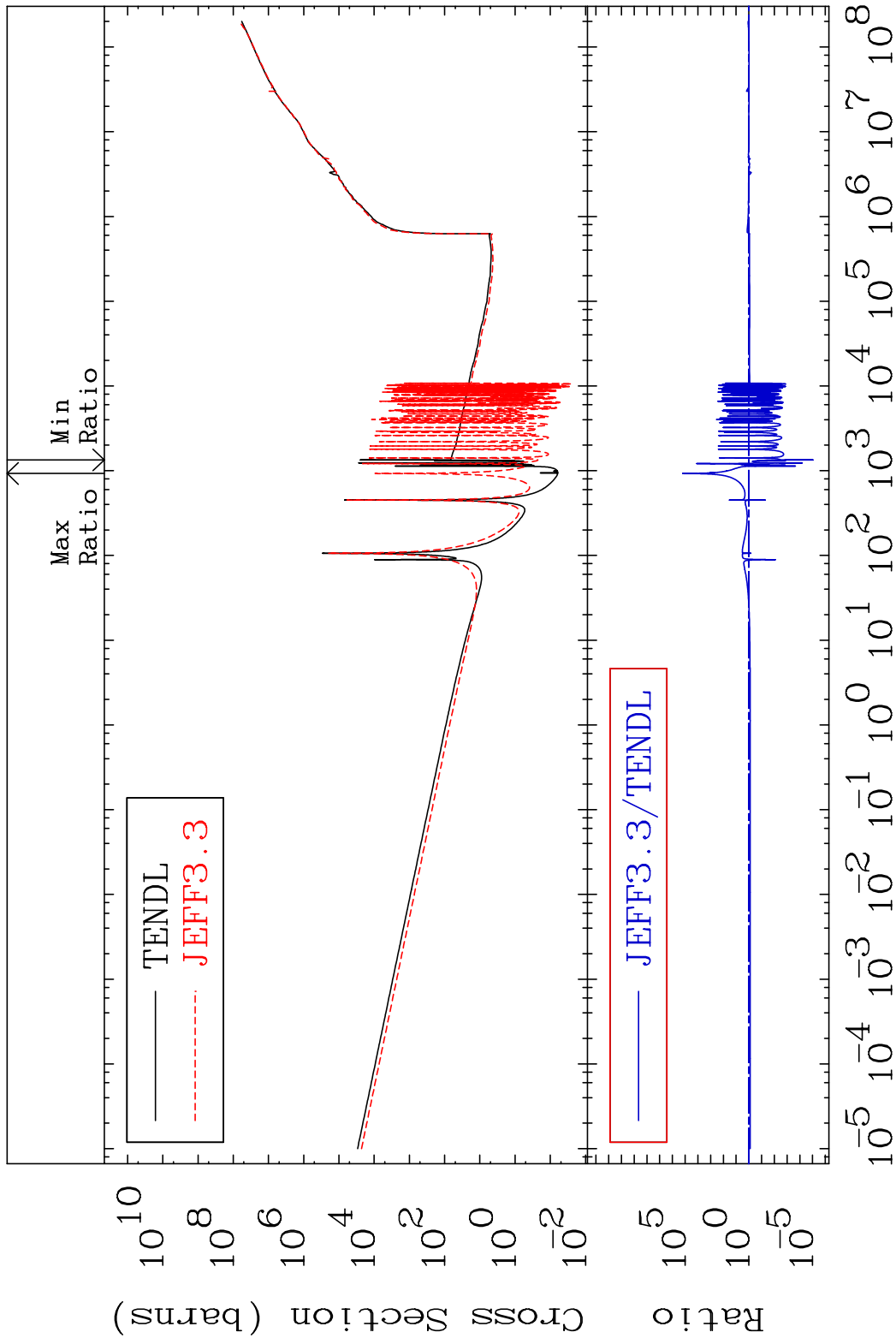
49 Incident Energy (eV) 36-Kr-80

MAT 3631

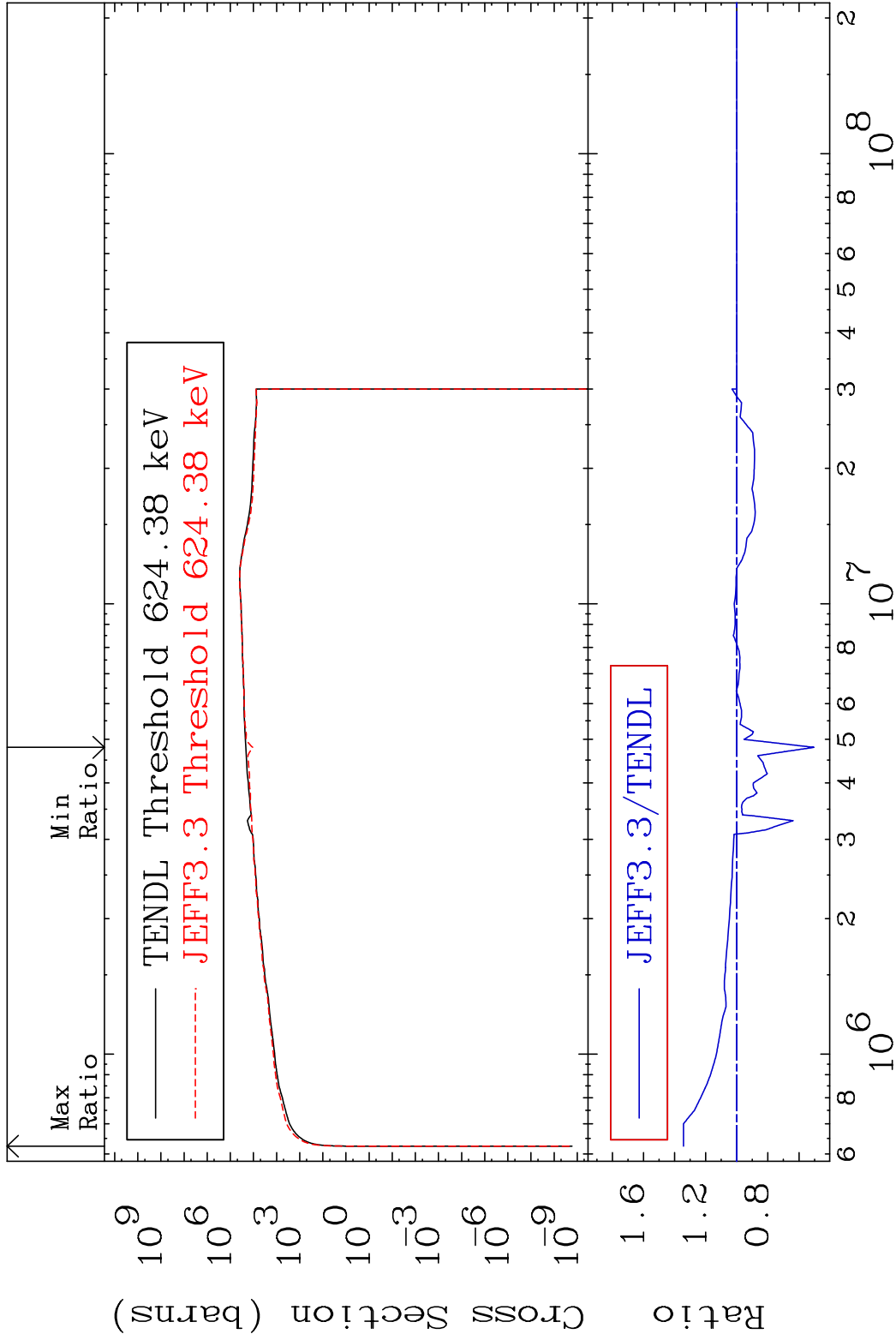
Kerma elastic Cross Section -100.0 To 9999. %  
36-Kr-80



MAT 3631 Kerma non-elastic (all but mt2) 36-Kr-80  
 Cross Section -100.0 To 9999. %

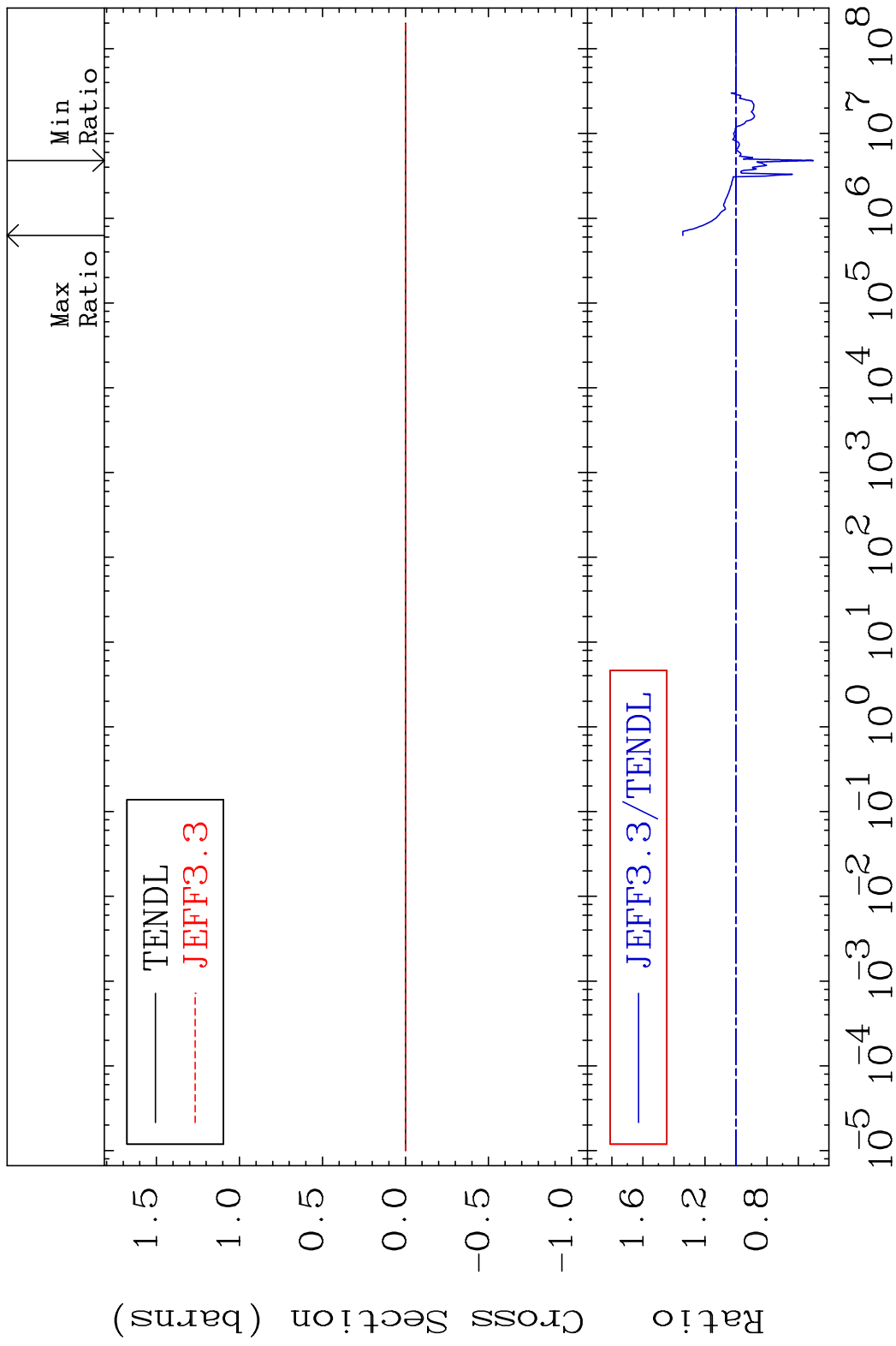


MAT 3631 Kerma inelastic (mt51-91) 36-Kr-80  
 Cross Section -49.59 To 34.29 %

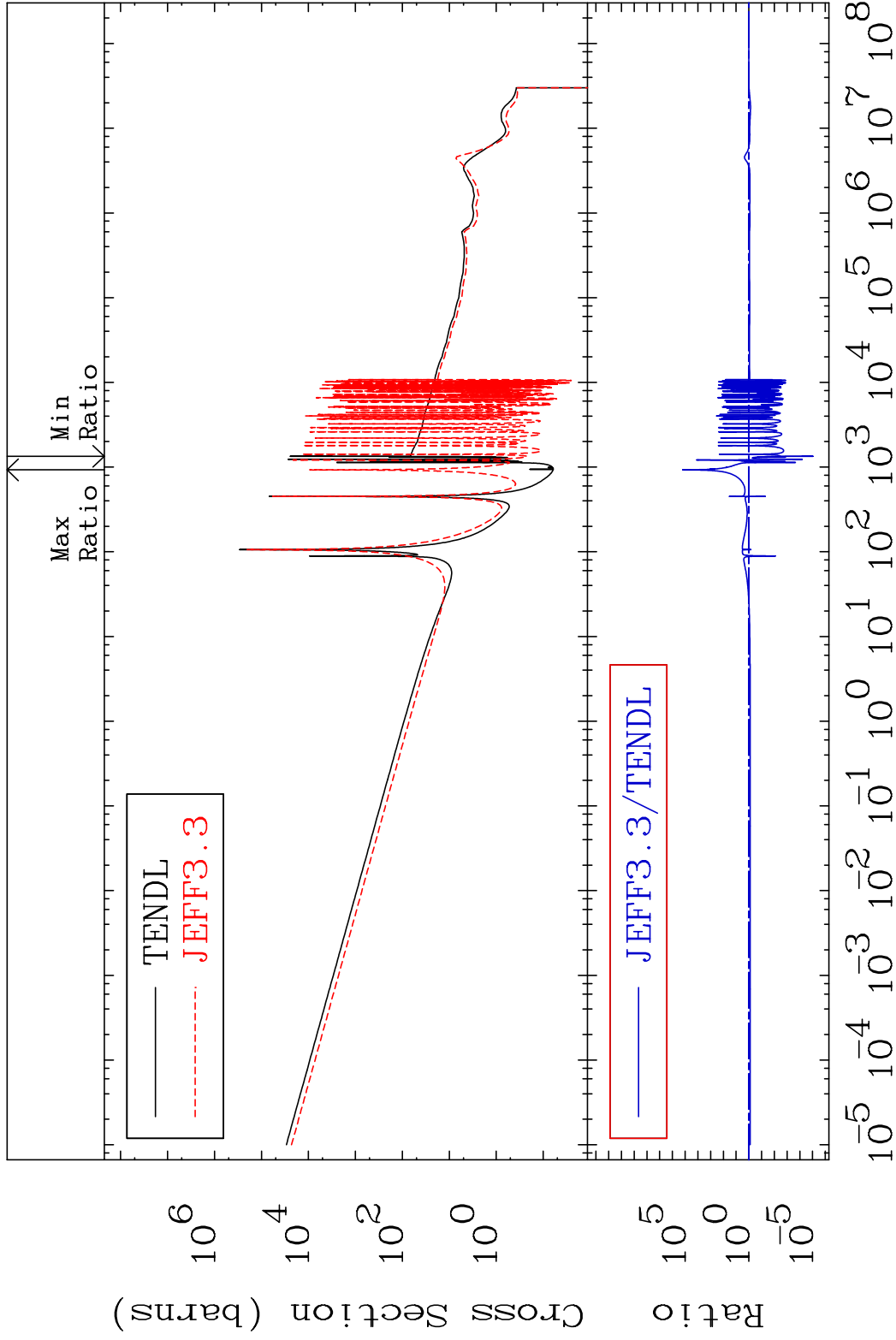


52 Incident Energy (eV) 36-Kr-80

MAT 3631 Kerma fission (mt18 or mt19-20-21-38) 36-Kr-80  
 Cross Section -49.59 To 34.29 %

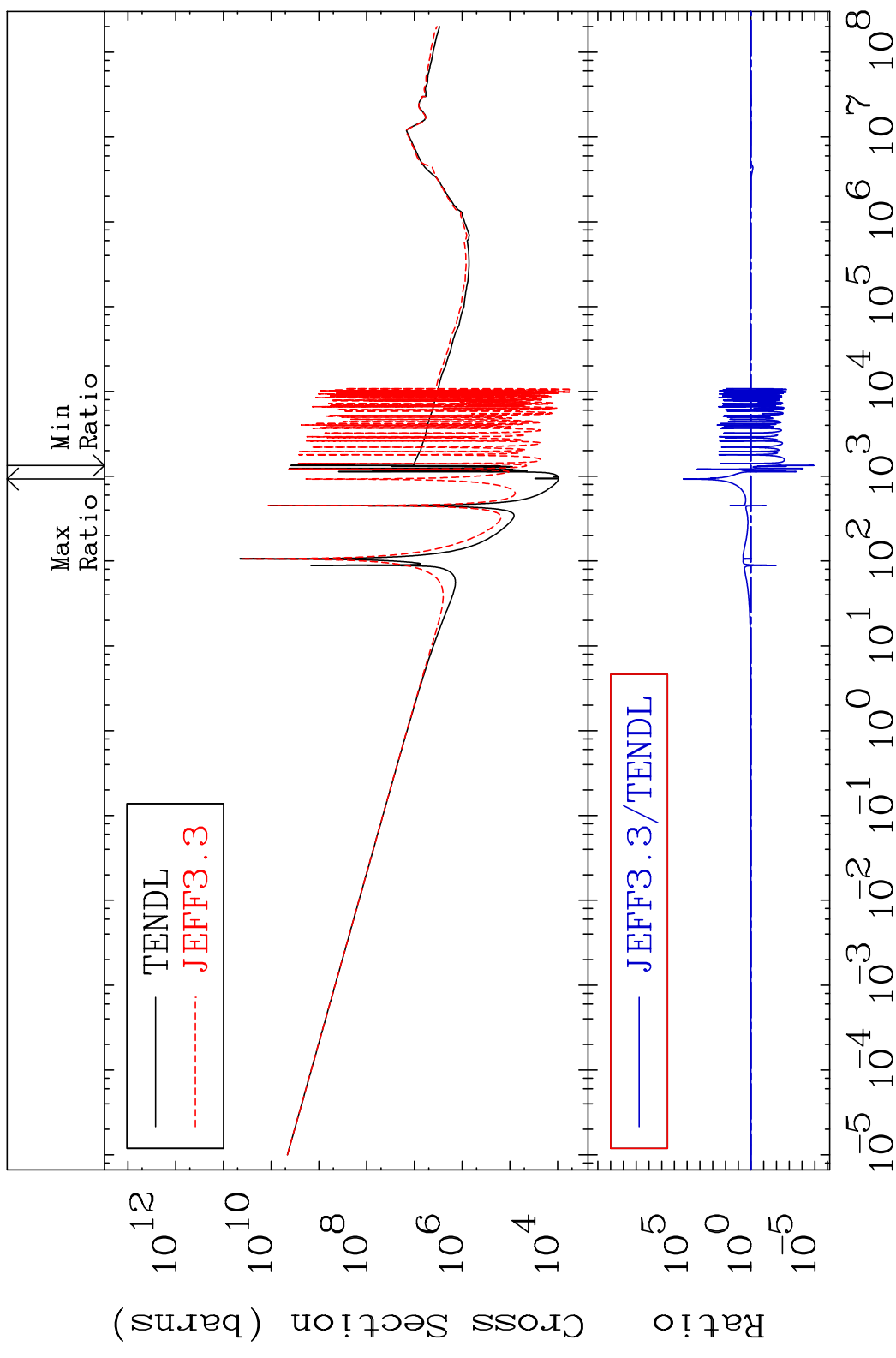


MAT 3631 Kerma capture (mt102) 36-Kr-80  
 Cross Section -100.0 To 9999. %



54 Incident Energy (eV) 36-Kr-80

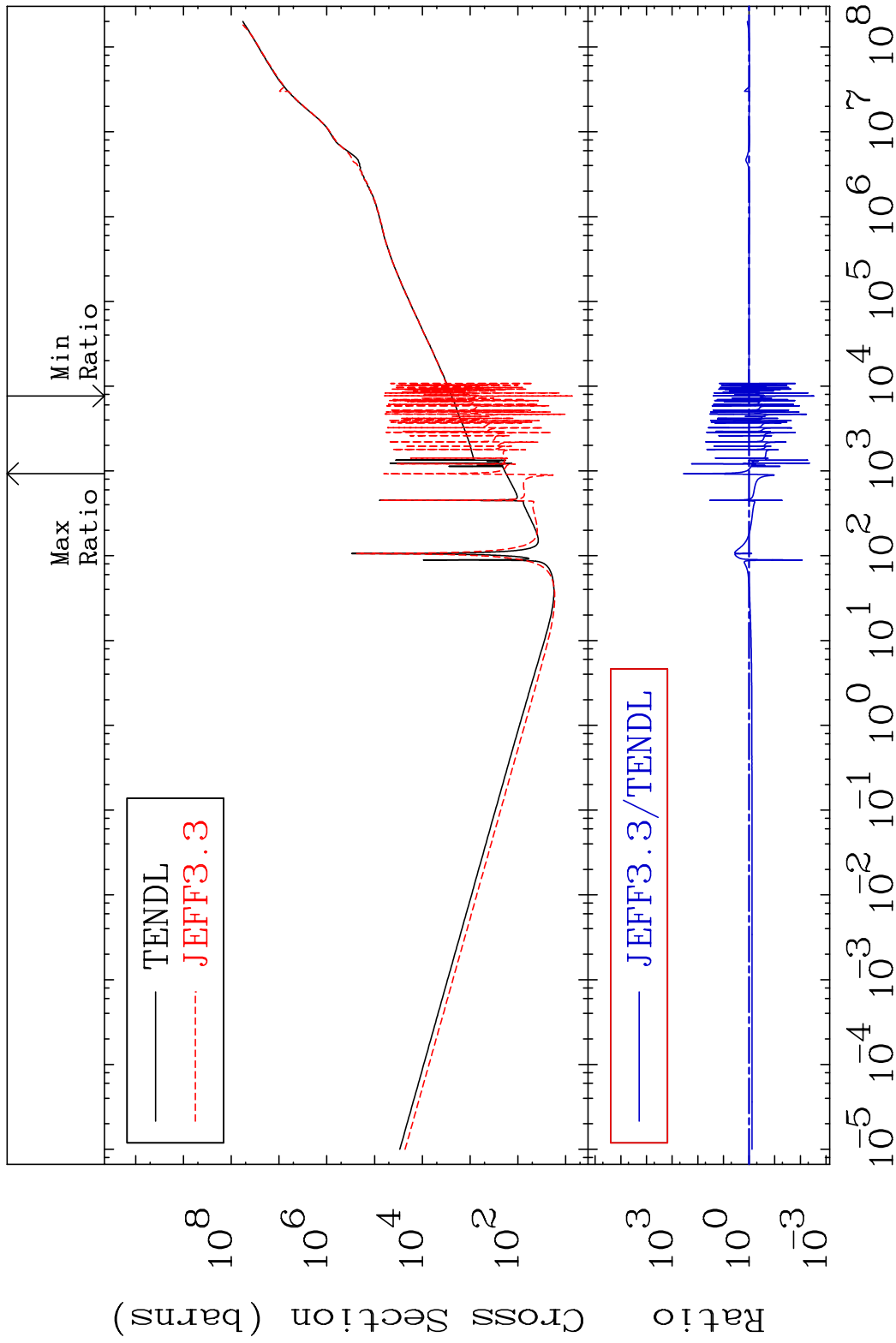
MAT 3631 Total photon (eV-barns) 36-Kr-80  
 Cross Section -100.0 To 9999. %



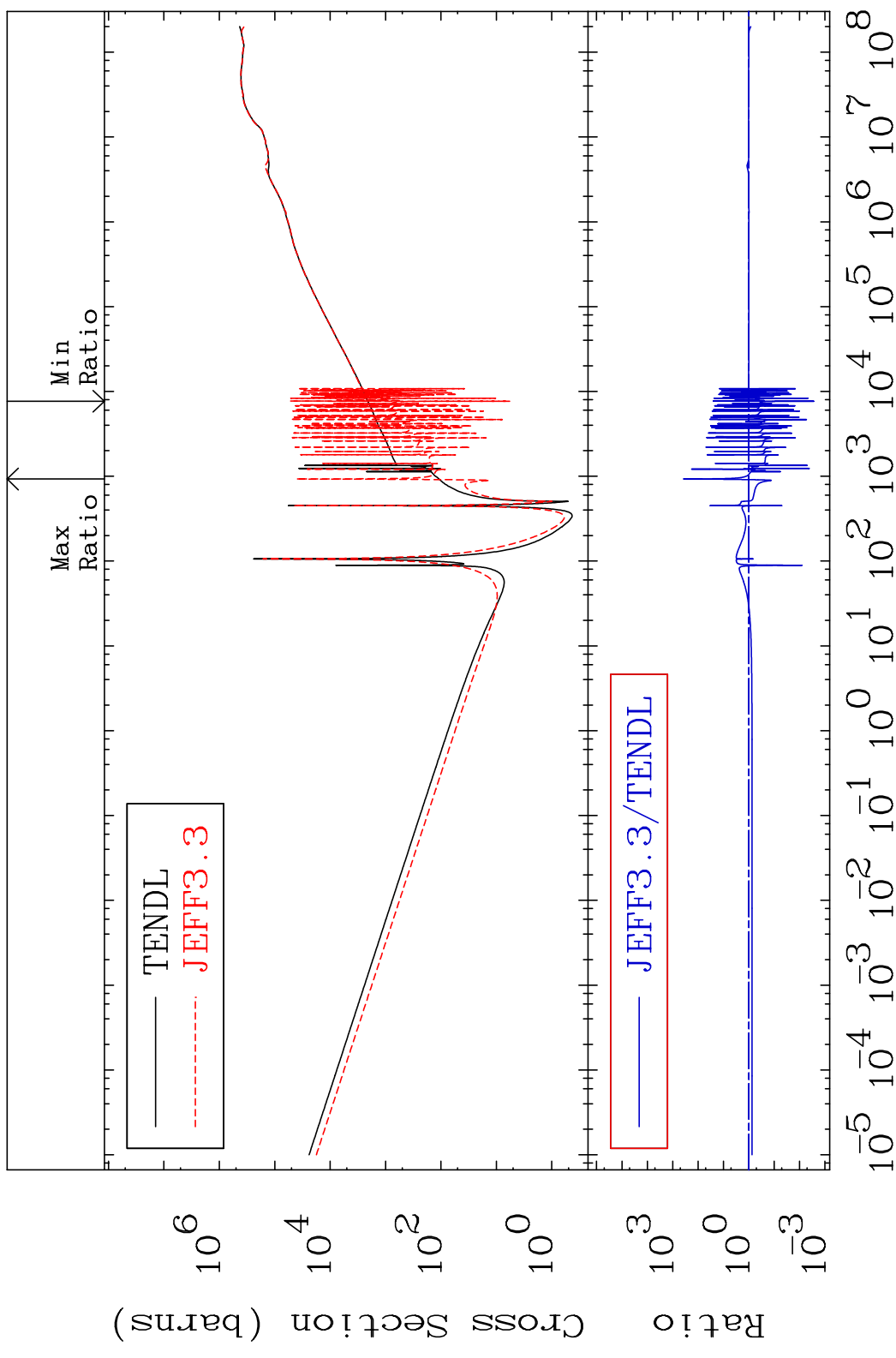
55 Incident Energy (eV) 36-Kr-80



MAT 3631 Total kinematic kerma (high limit) 36-Kr-80  
 Cross Section -99.70 To 9999. %



MAT 3631      Dpa total (eV-barns)      36-Kr-80  
 Cross Section      -99.73 To 9999. %



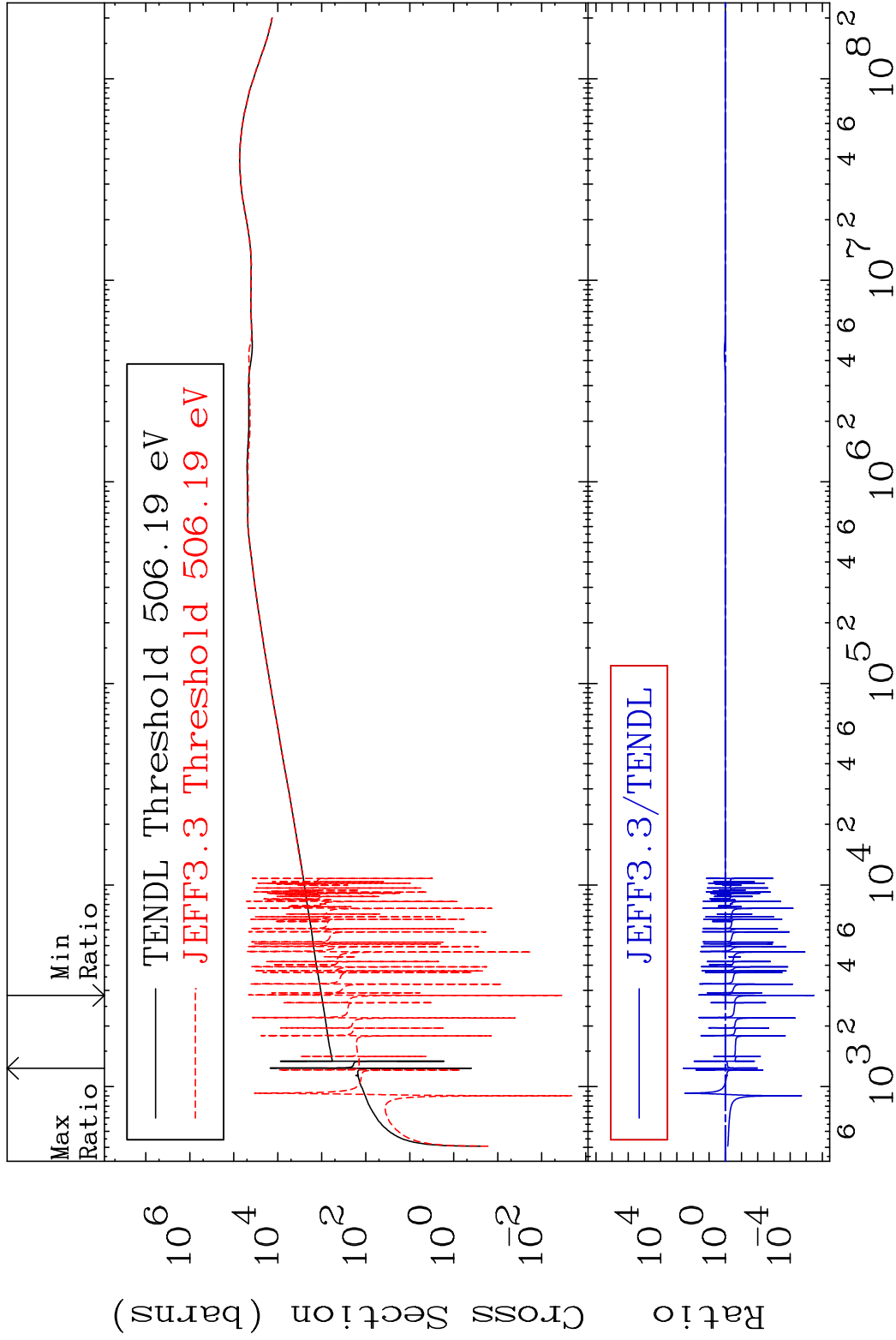
57      Incident Energy (eV)      36-Kr-80

MAT 3631

Dpa elastic (mt2)

36-Kr-80

Cross Section -100.0 To 9999. %

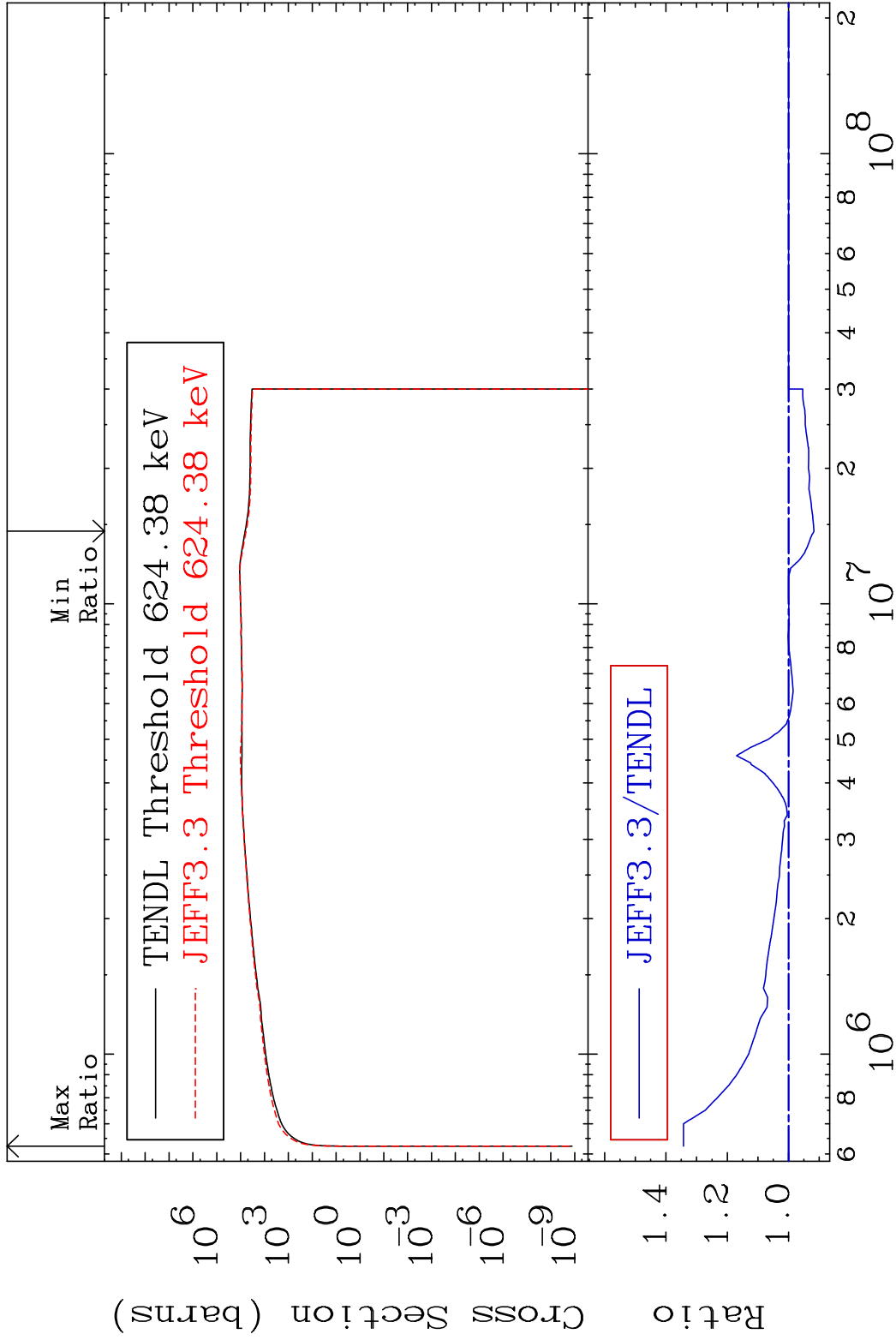


58

Incident Energy (eV)

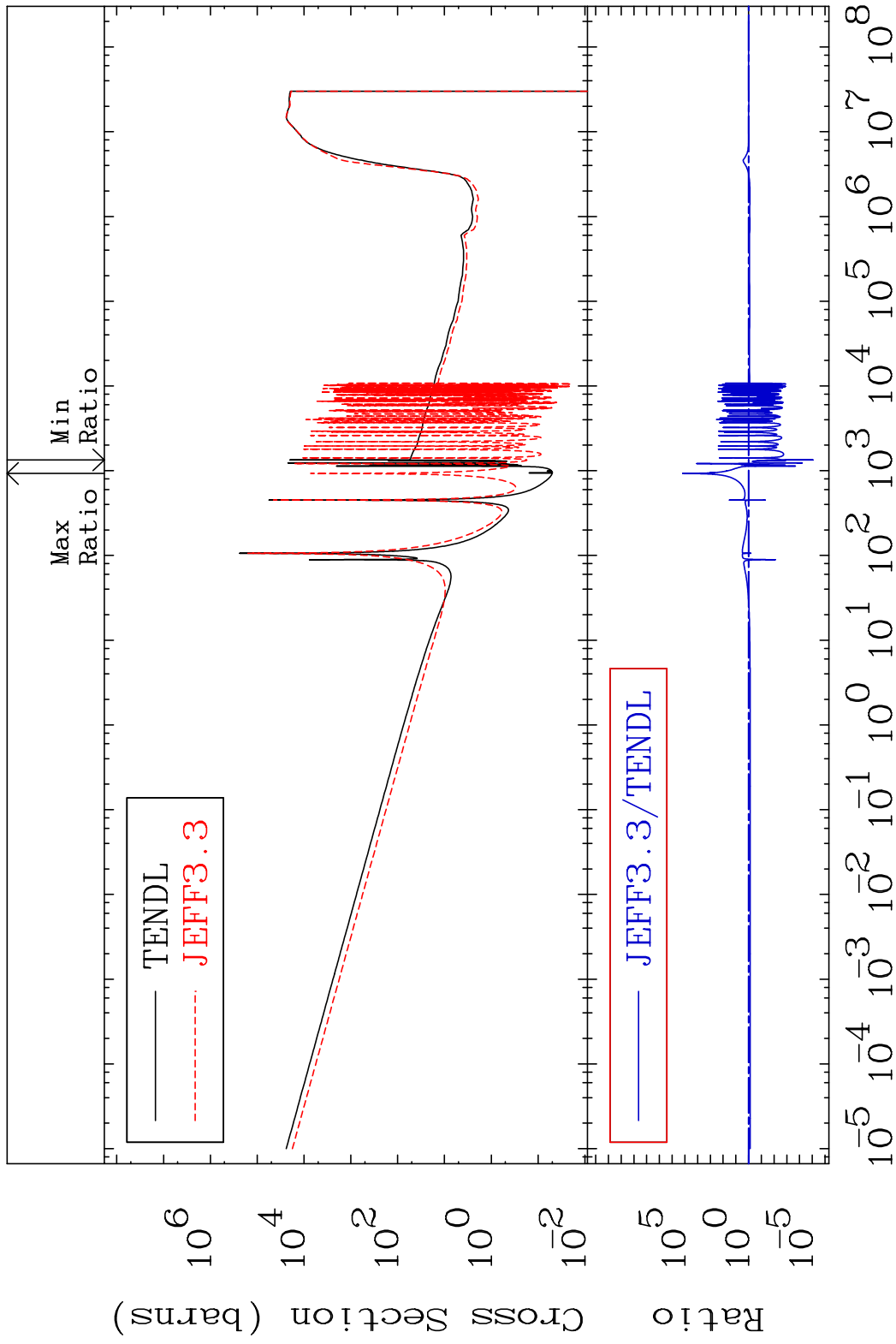
36-Kr-80

MAT 3631 Dpa inelastic (mt51-91) 36-Kr-80  
 Cross Section -8.257 To 34.29 %



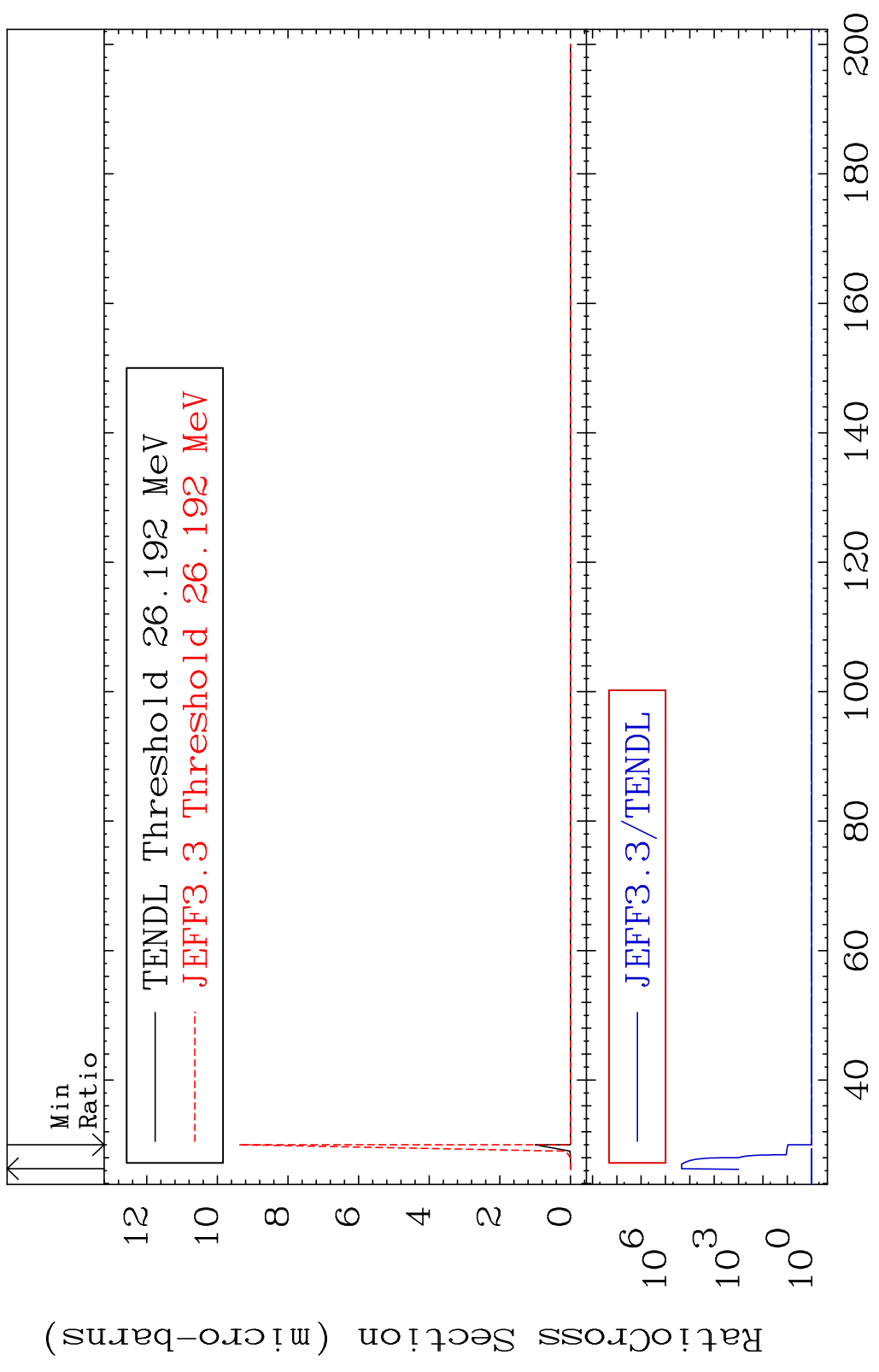
59 Incident Energy (eV) 36-Kr-80

MAT 3631 Dpa disappearance (mt102 -120) 36-Kr-80  
 Cross Section -100.0 To 9999. %



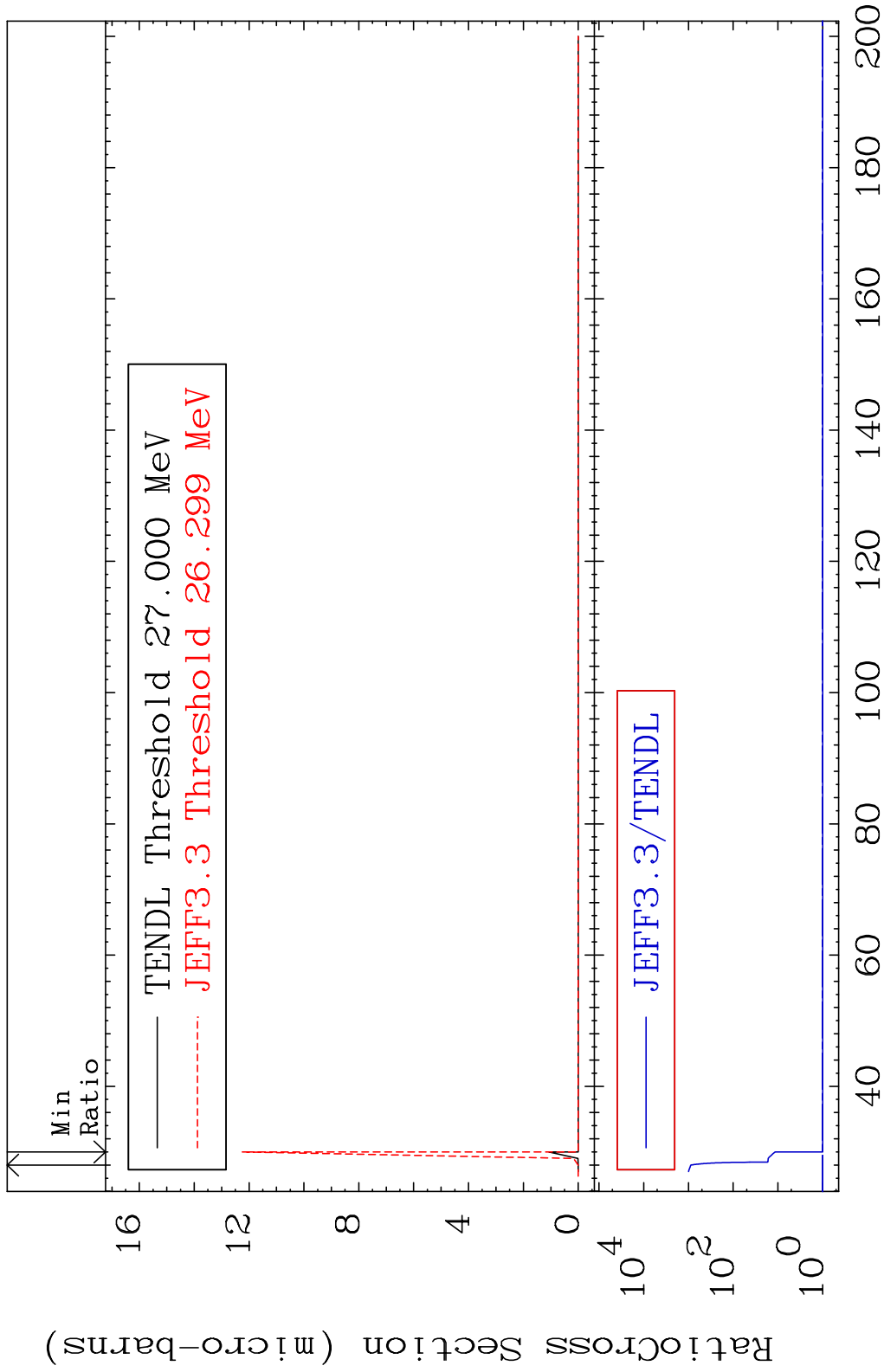
60 Incident Energy (eV) 36-Kr-80

MAT 3631 (n, 2n) d:35-Br-77g 36-Kr-80  
 Radionuclide Production Cross Section 9999. %



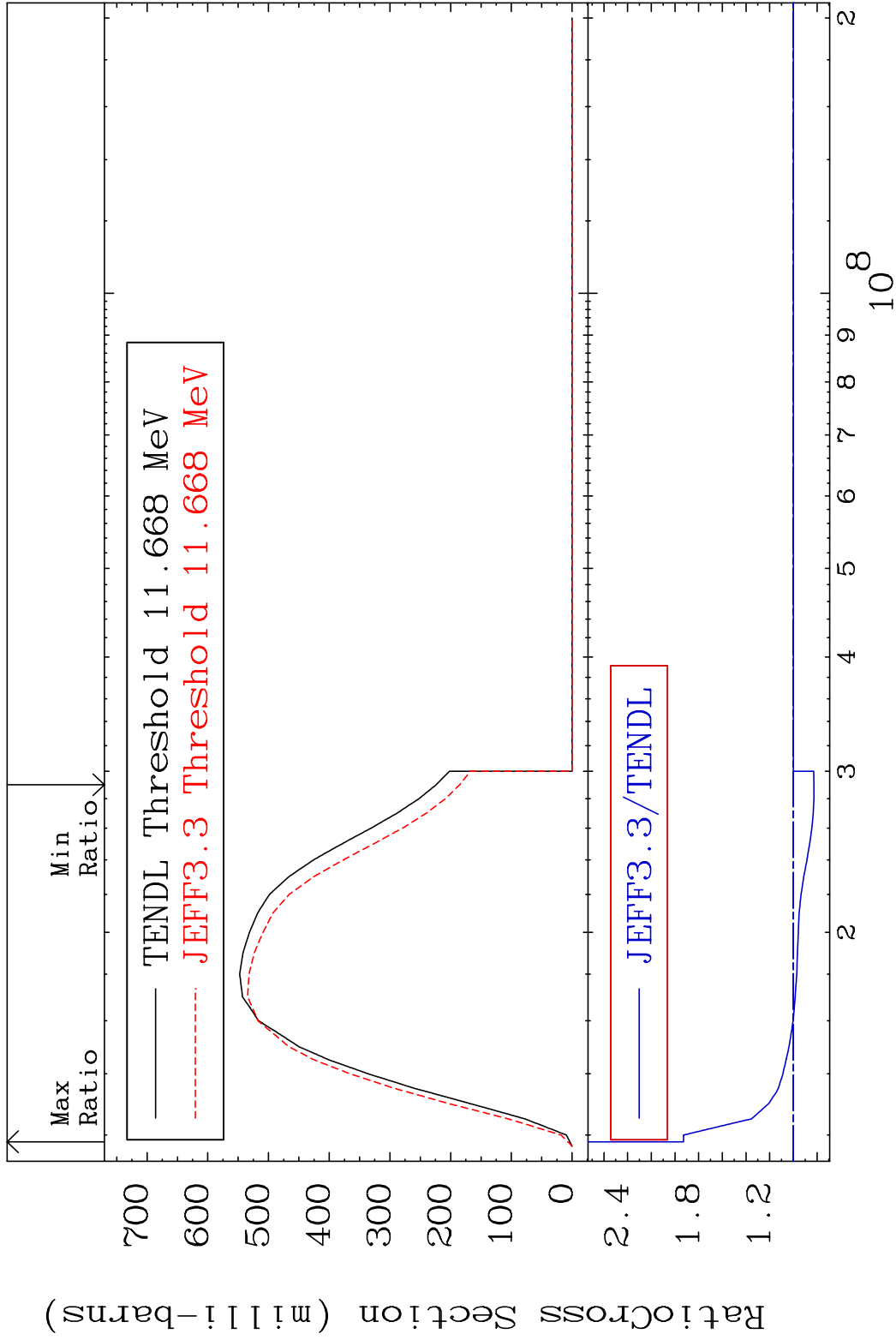
61 Incident Energy (MeV) 36-Kr-80

MAT 3631 (n,2n) d:35-Br-77m1 36-Kr-80  
 Radionuclide Production Cross Section 9999. %



62 36-Kr-80

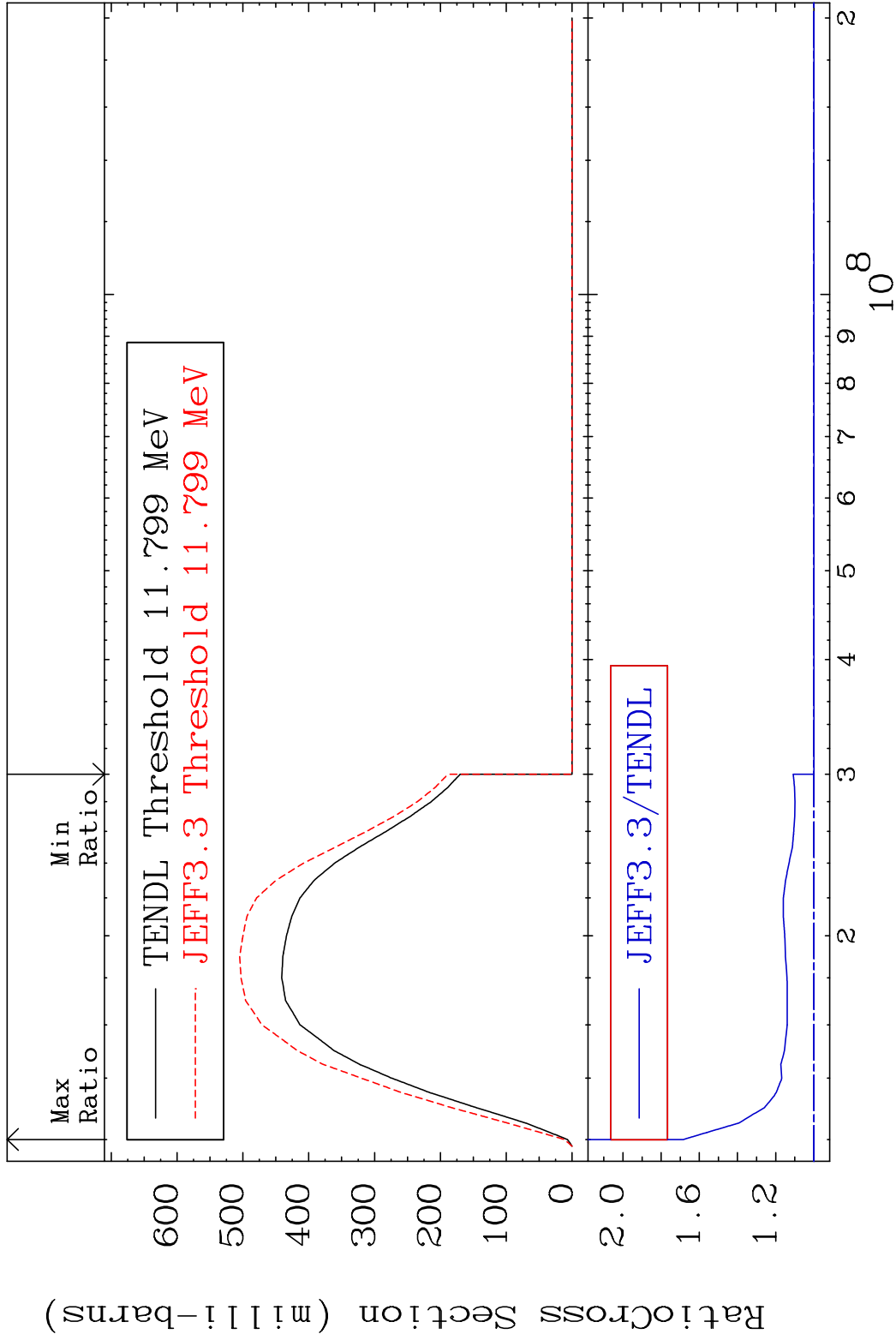
MAT 3631 (n,2n):36-Kr-79g 36-Kr-80  
 Radionuclide Production Cross Section 1Se83Bi d10 92.82 %



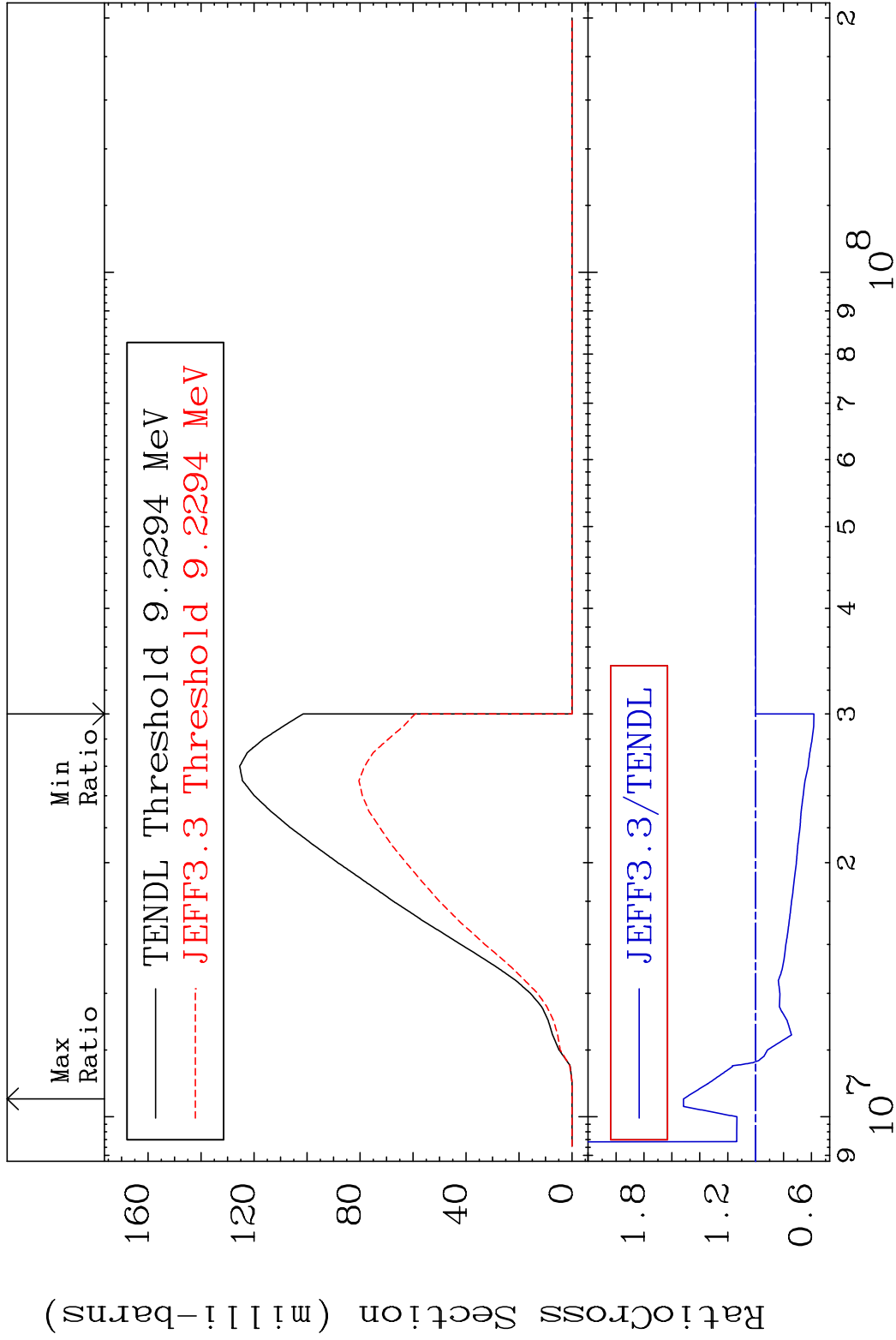
63 36-Kr-80



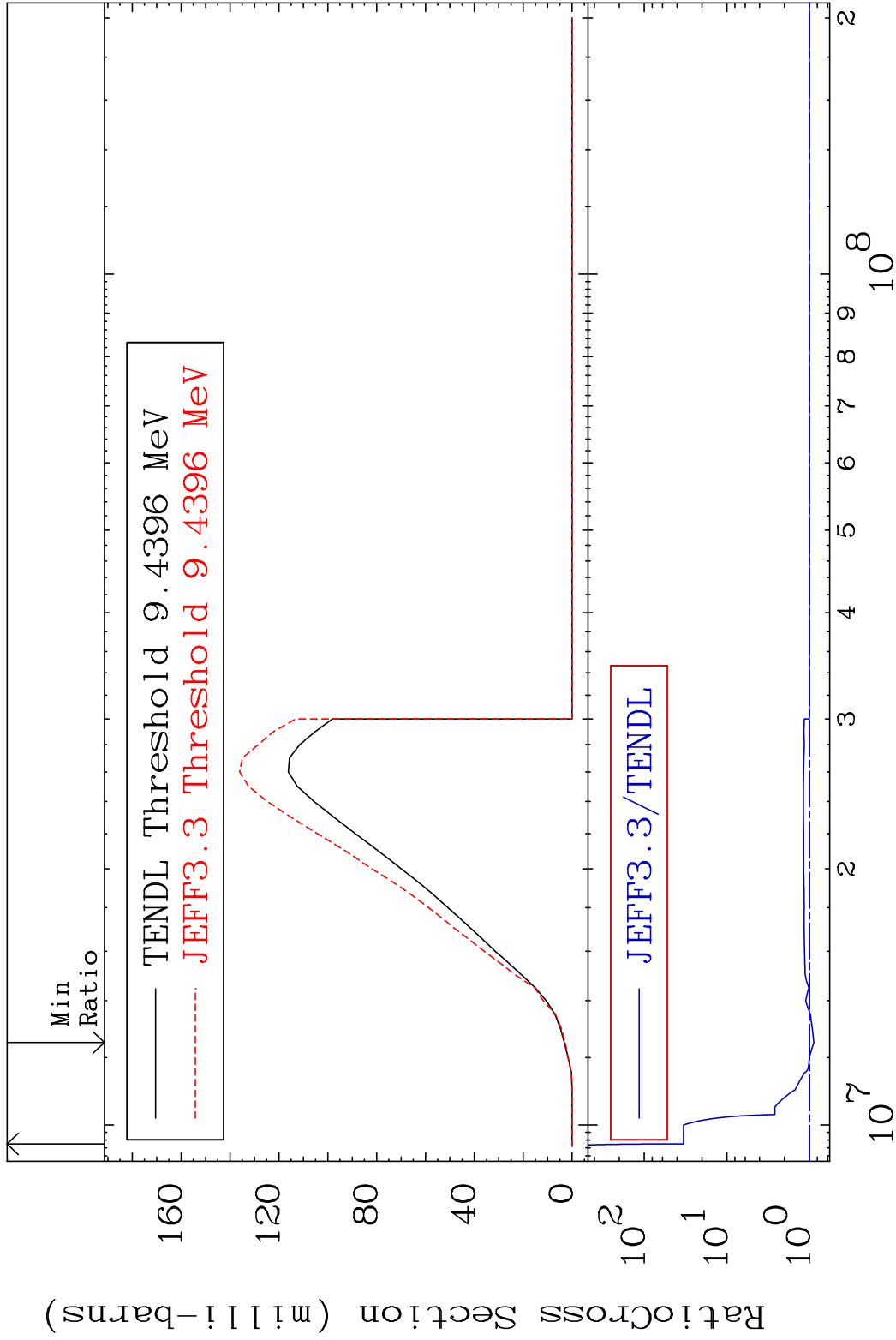
MAT 3631 (n,2n):36-Kr-79m1 36-Kr-80  
 Radionuclide Production Cross Section 68.31 %



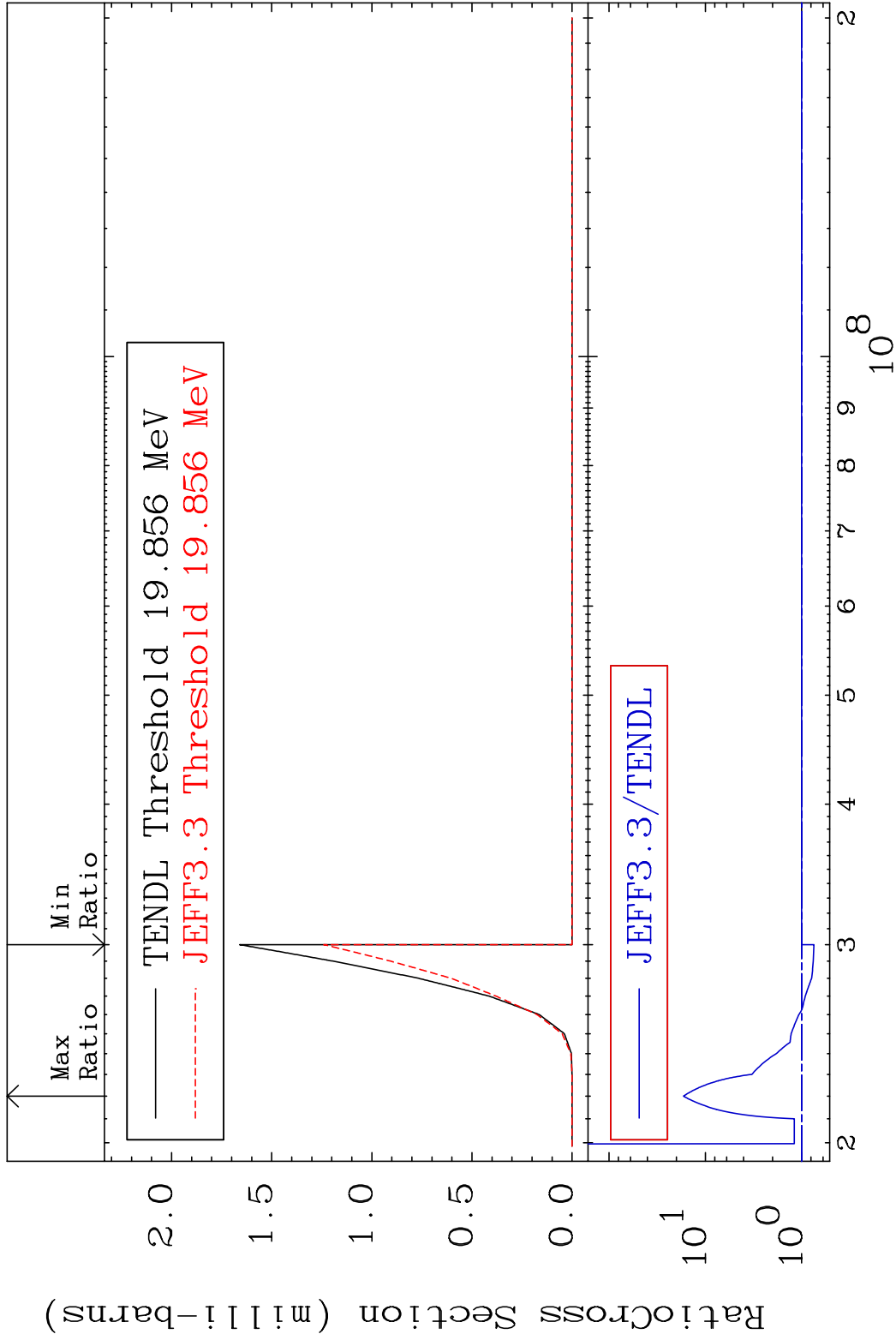
64 Incident Energy (eV) 36-Kr-80



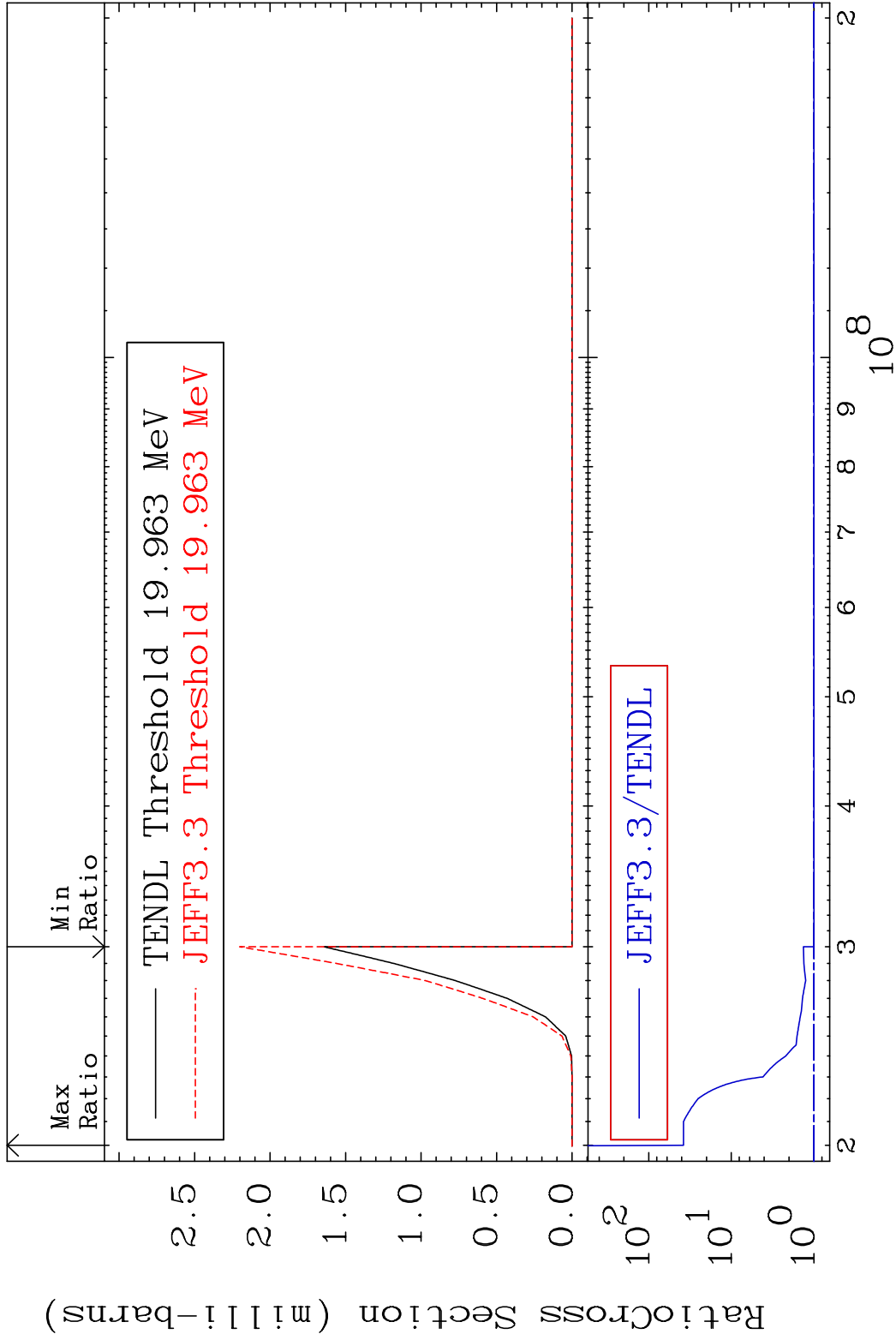
MAT 3631 (n, n') p:35-Br-79m1 36-Kr-80  
 Radionuclide Production Cross Section 3246. %



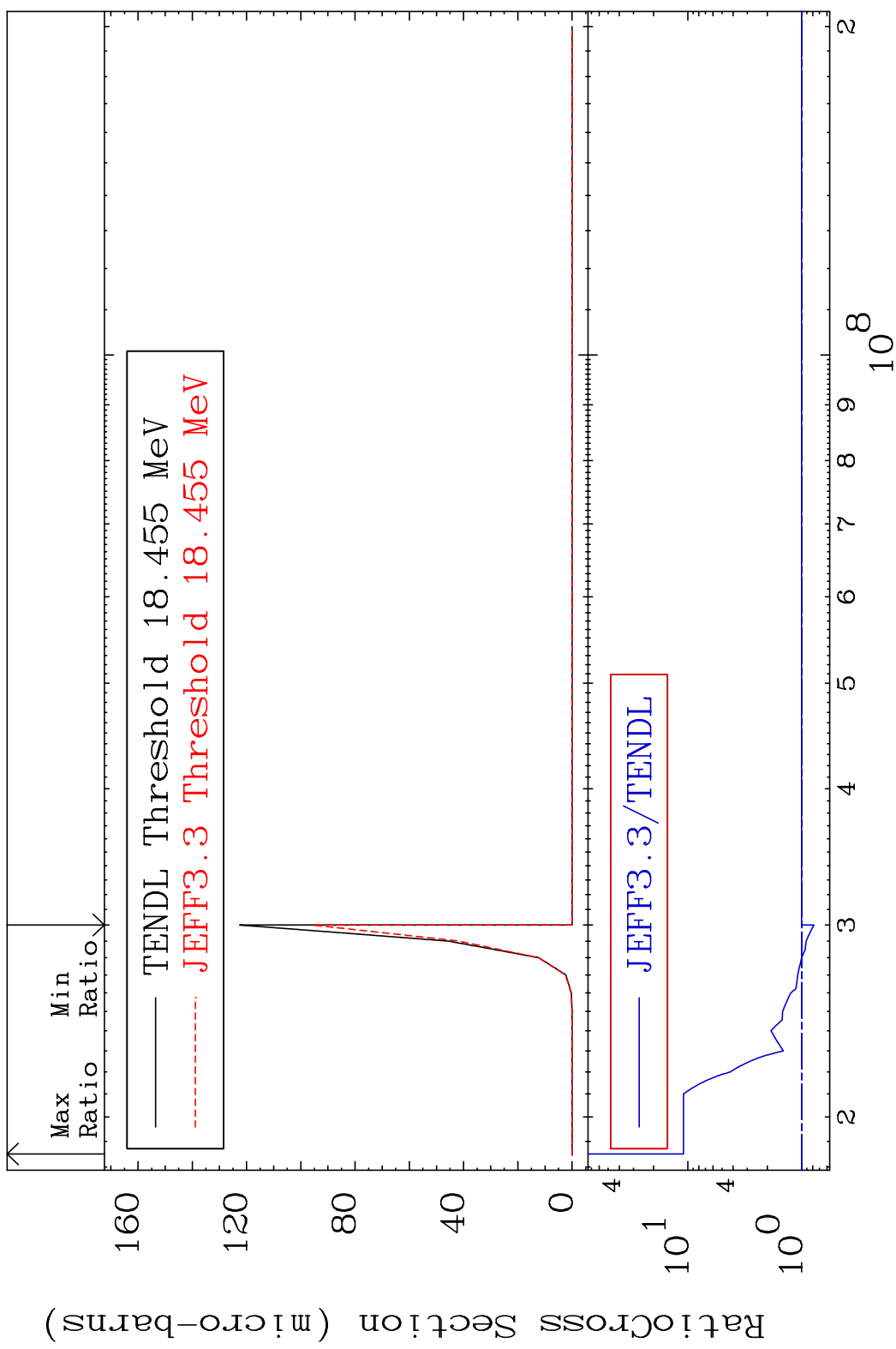
66 Incident Energy (eV) 36-Kr-80



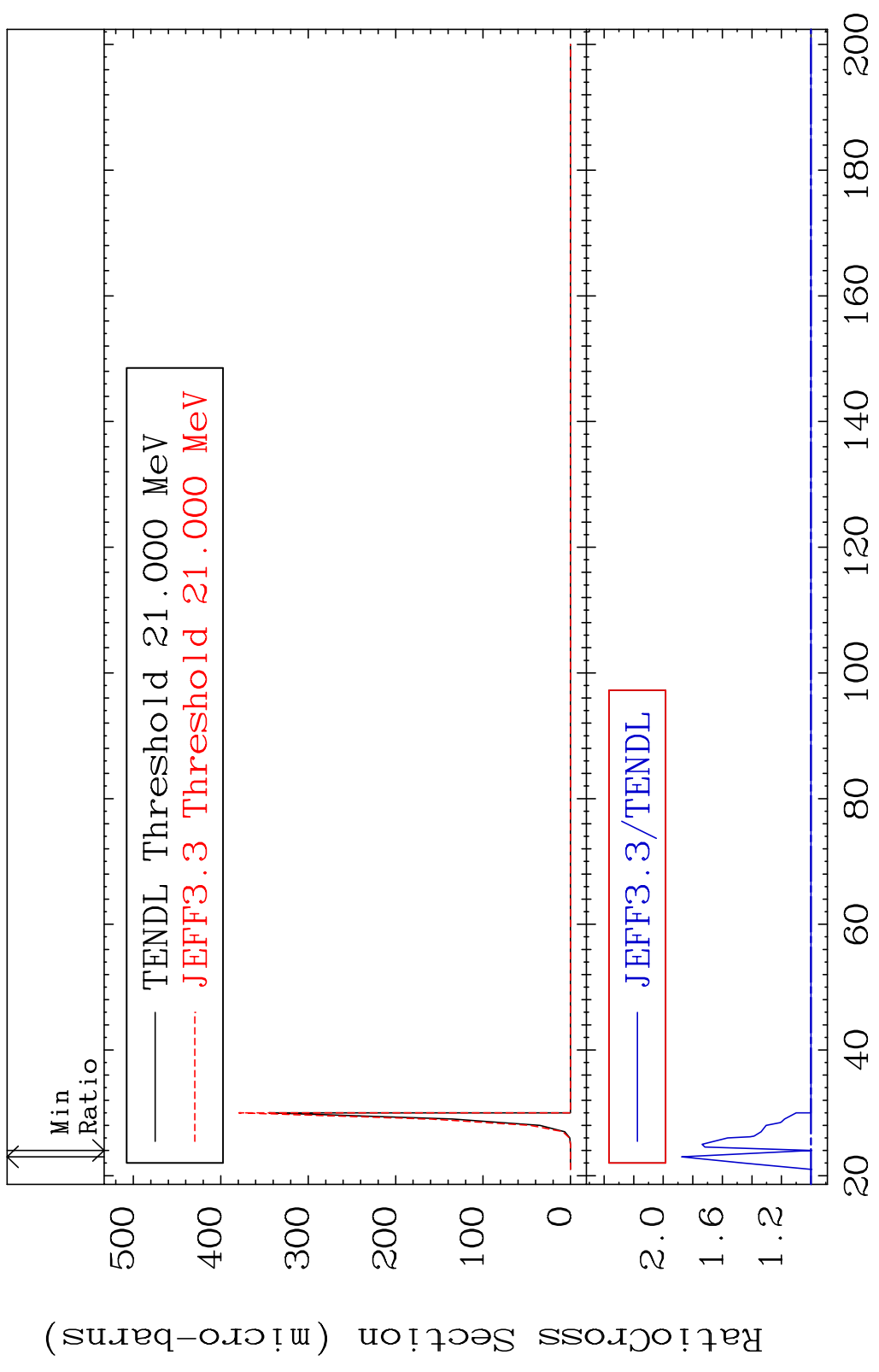
MAT 3631 (n, n') t:35-Br-77m1 36-Kr-80  
 Radionuclide Production Cross Section 3704. %



68 Incident Energy (eV) 36-Kr-80

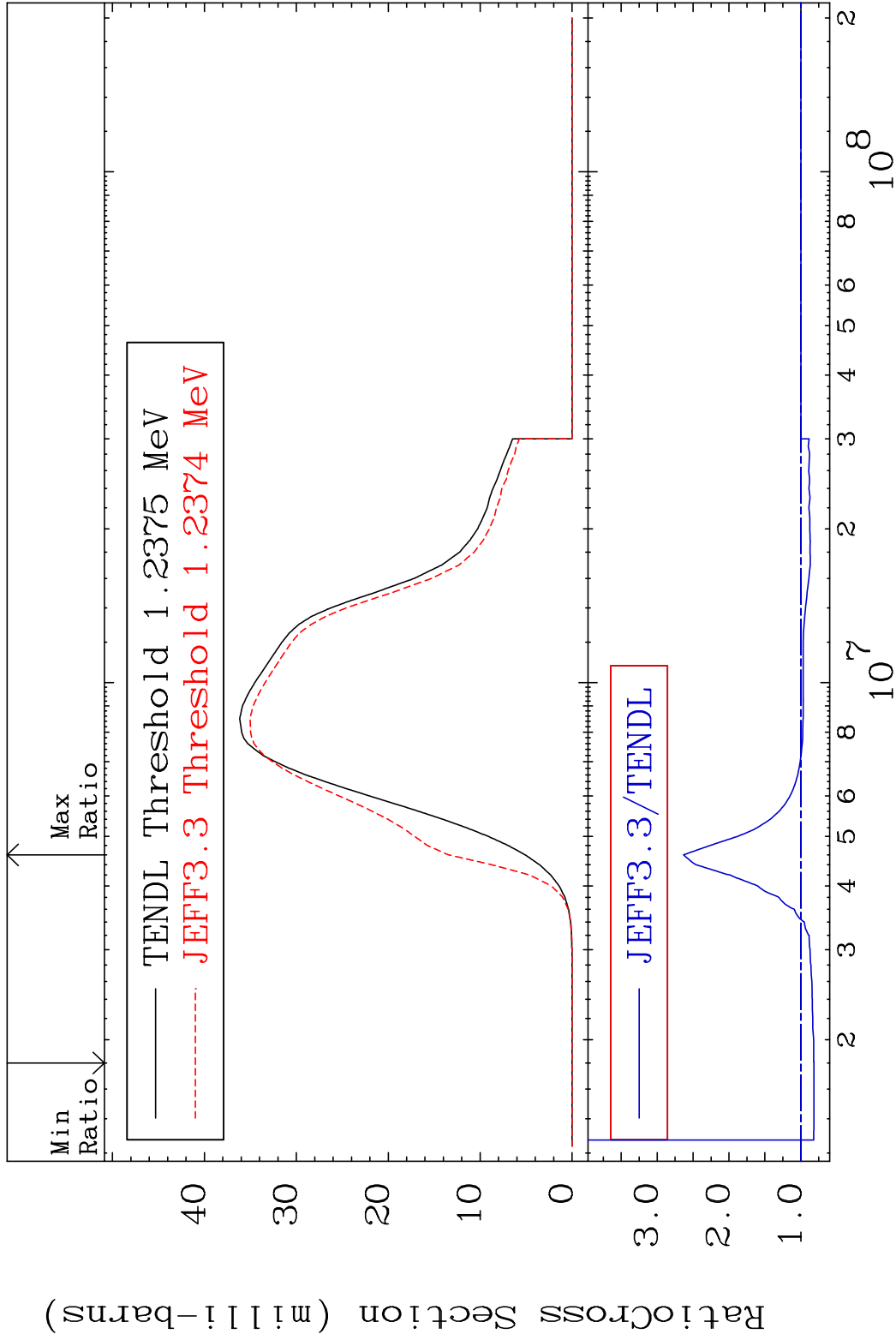


MAT 3631 (n, n') He-3:34-Se-77m1 36-Kr-80  
 Radionuclide Production Cross Section 87.60 %



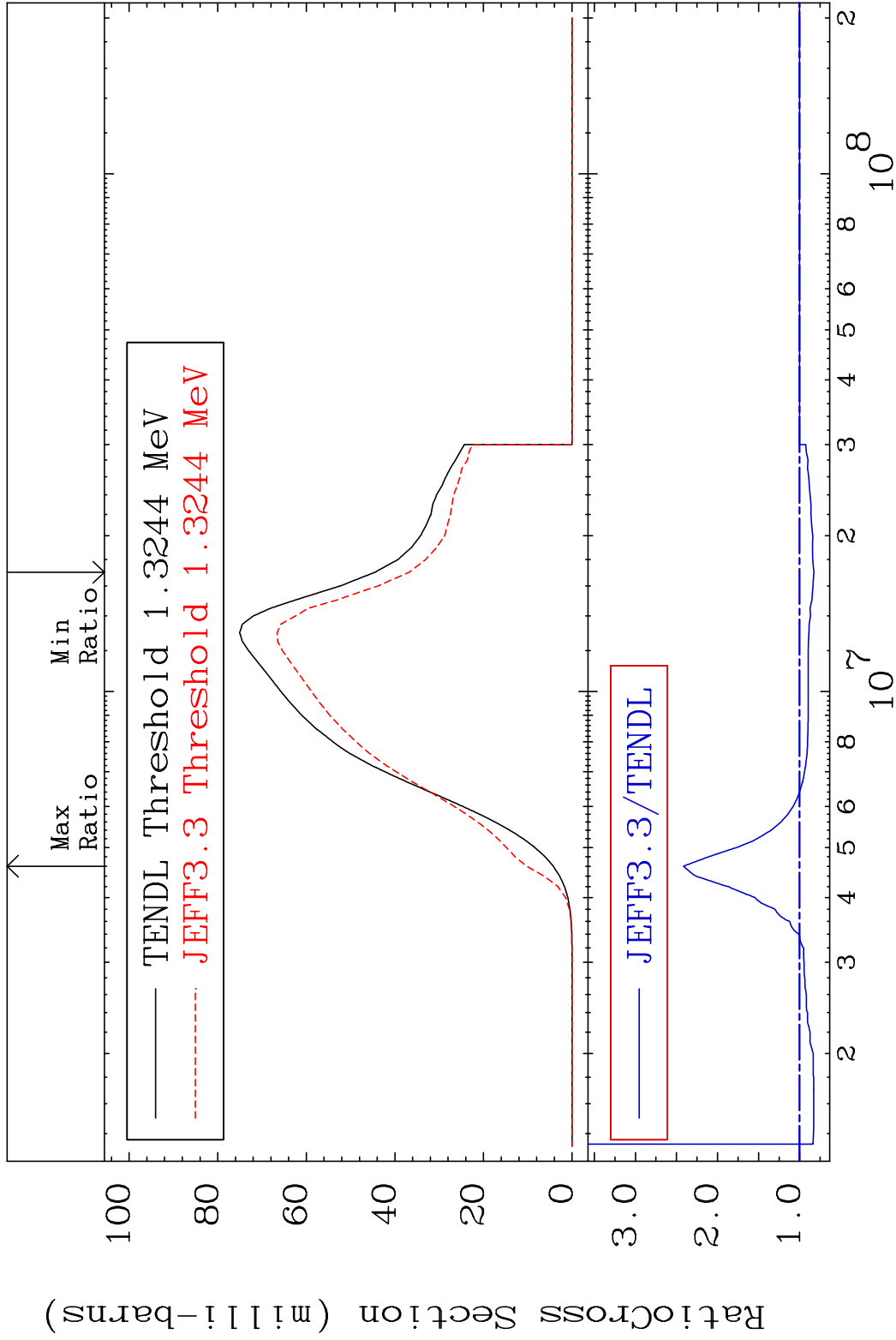
70 Incident Energy (MeV) 36-Kr-80

MAT 3631 (n, p) : 35-Br-80g 36-Kr-80  
 Radionuclide Production Cross Section 163.4 %



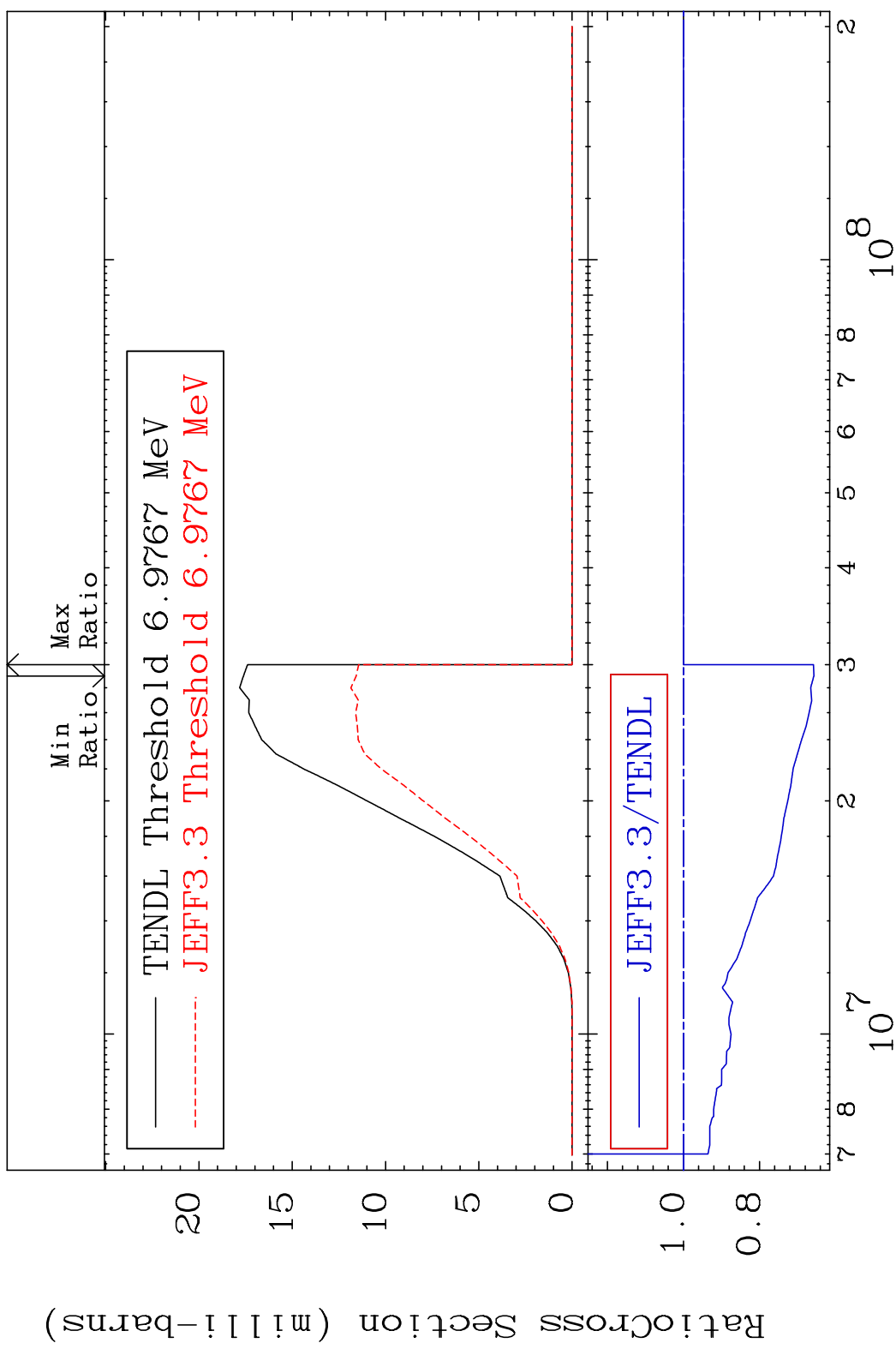


MAT 3631 (n, p): 35-Br-80m2 36-Kr-80  
 Radionuclide Production Cross Section 1Se84d0 141.5 %



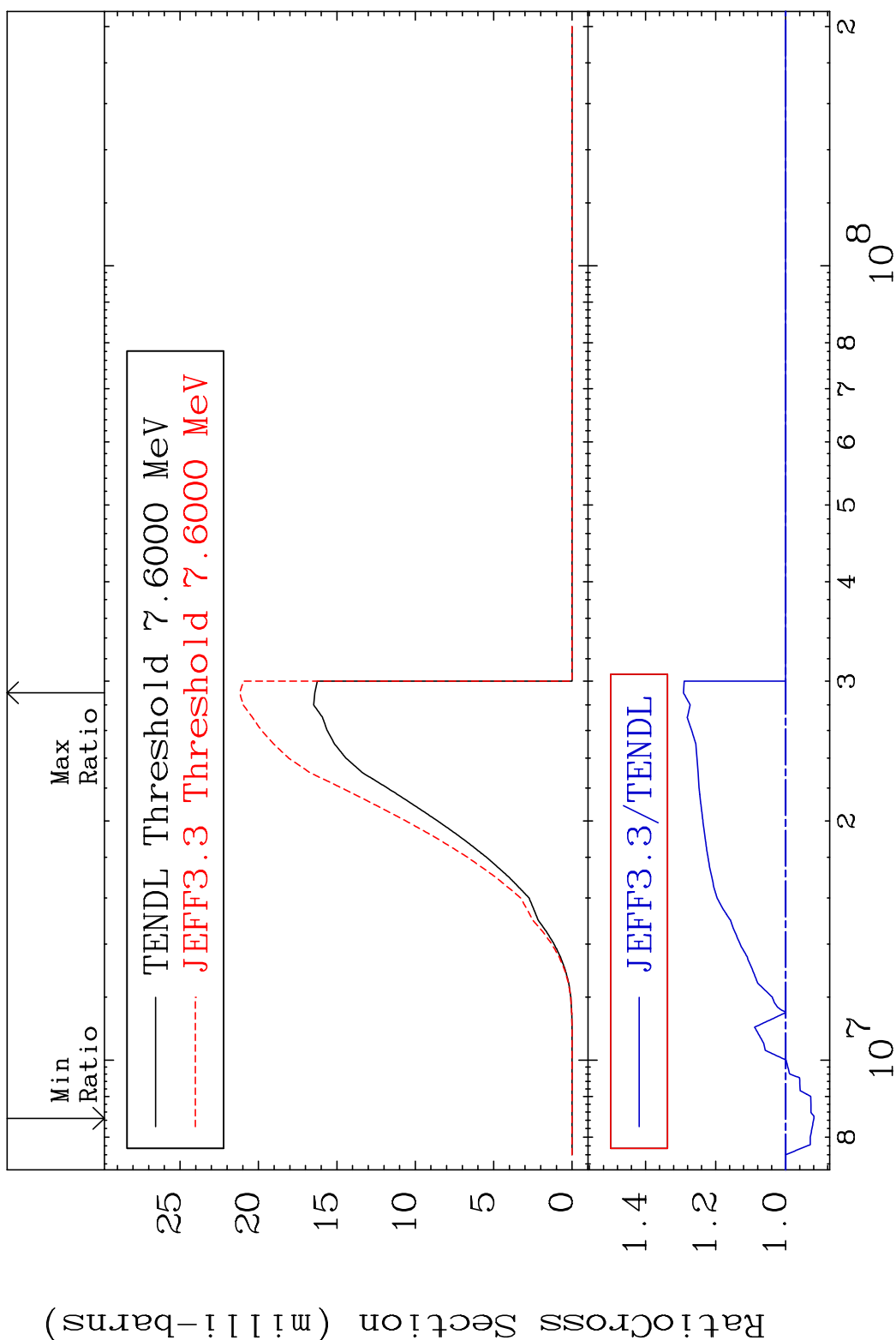
72 36-Kr-80

MAT 3631 (n, d) : 35-Br-79g 36-Kr-80  
 Radionuclide Production Cross Section 0.000 %



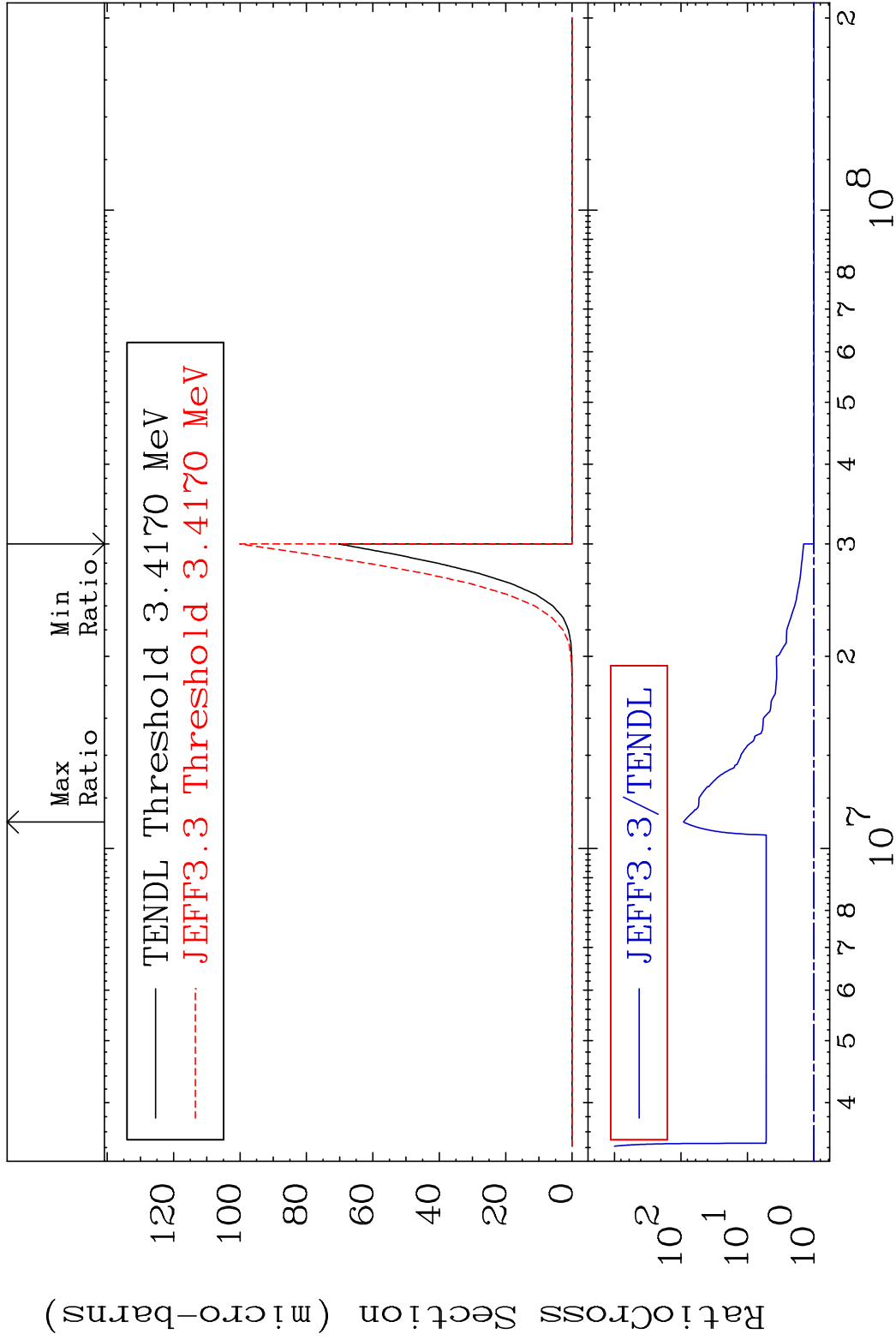
73 Incident Energy (eV) 36-Kr-80

MAT 3631 (n,d):35-Br-79m1 36-Kr-80  
 Radionuclide Production Cross Section 29.18 %

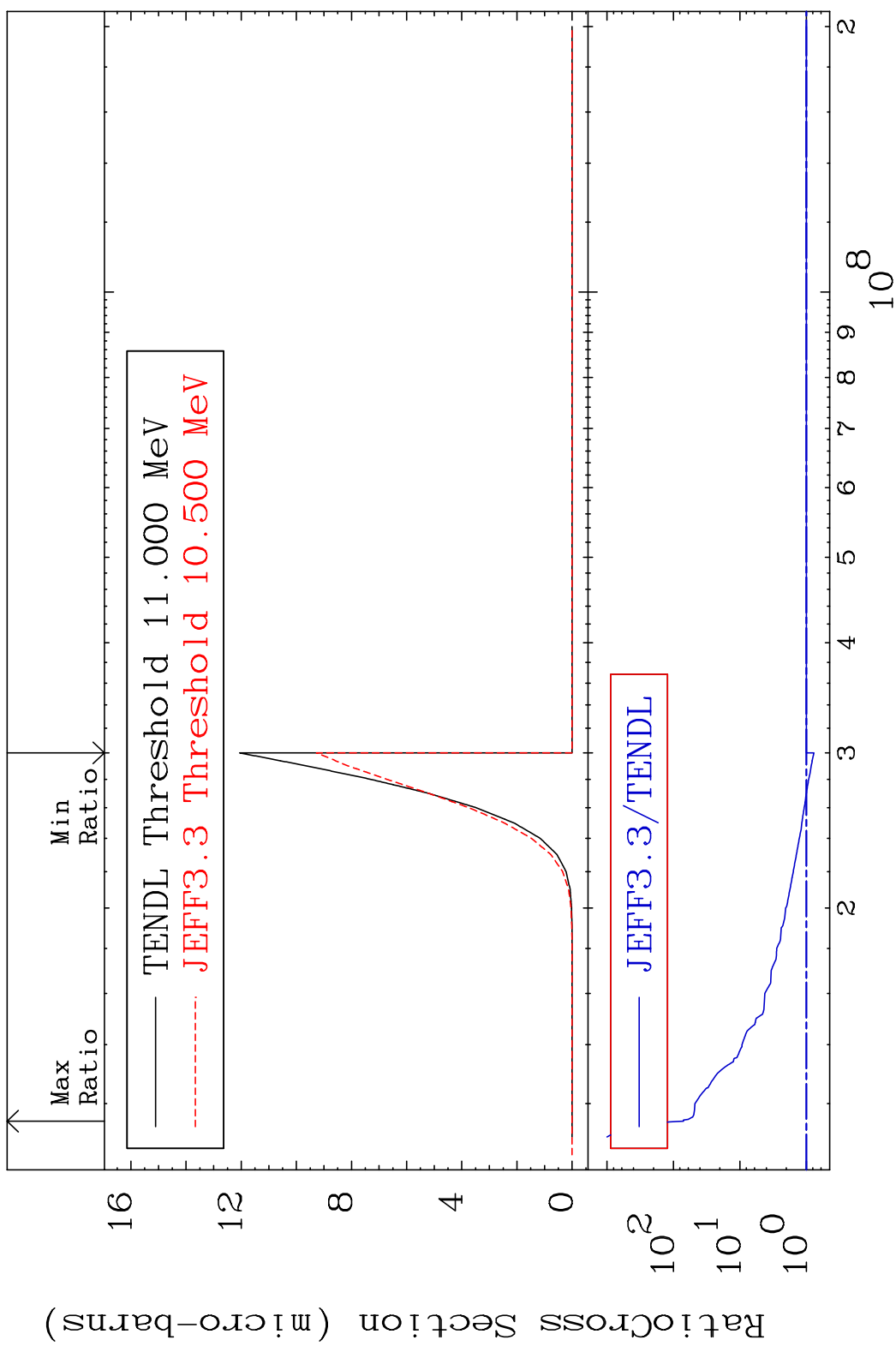


74 Incident Energy (eV) 36-Kr-80

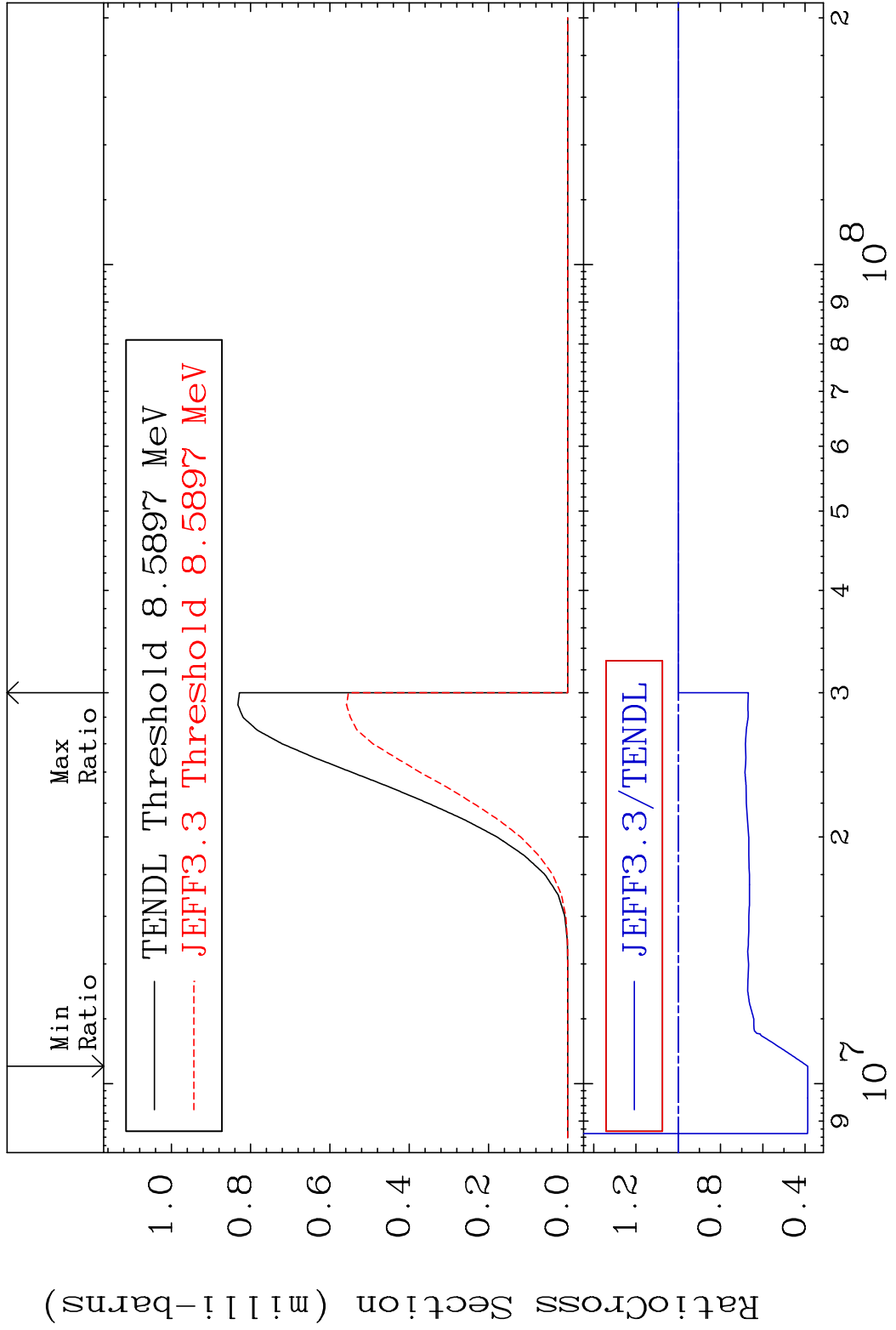
MAT 3631 (n,2α):32-Ge-73g 36-Kr-80  
 Radionuclide Production Cross Section 9055. %



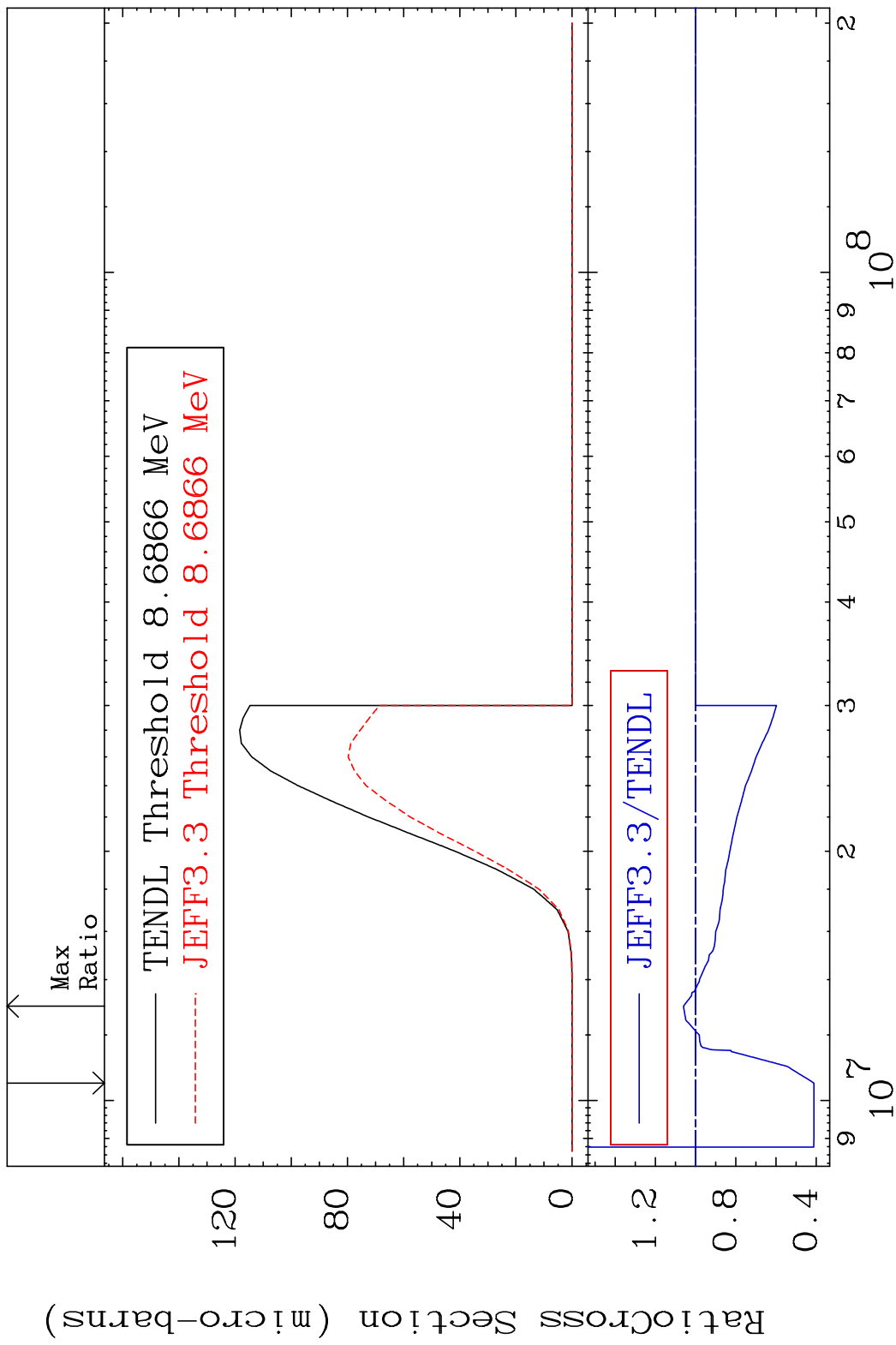
75 Incident Energy (eV) 36-Kr-80



MAT 3631 (n,2p):34-Se-79g 36-Kr-80  
 Radionuclide Production Cross Section 0.000 %

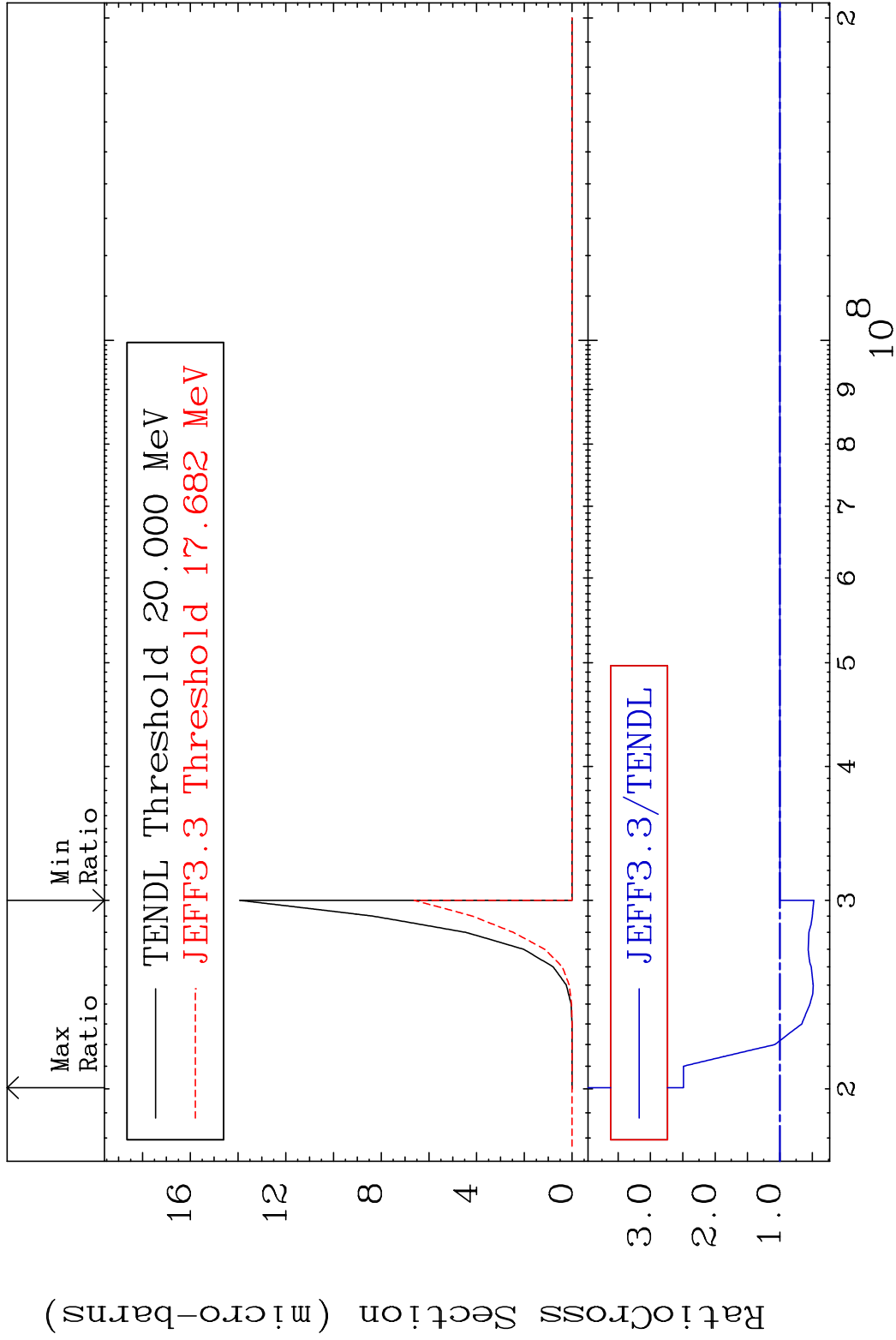


MAT 3631 (n,2p):34-Se-79m1 36-Kr-80  
 Radionuclide Production Cross Section 58e-02 dtd 6.026 %



78 Incident Energy (eV) 36-Kr-80

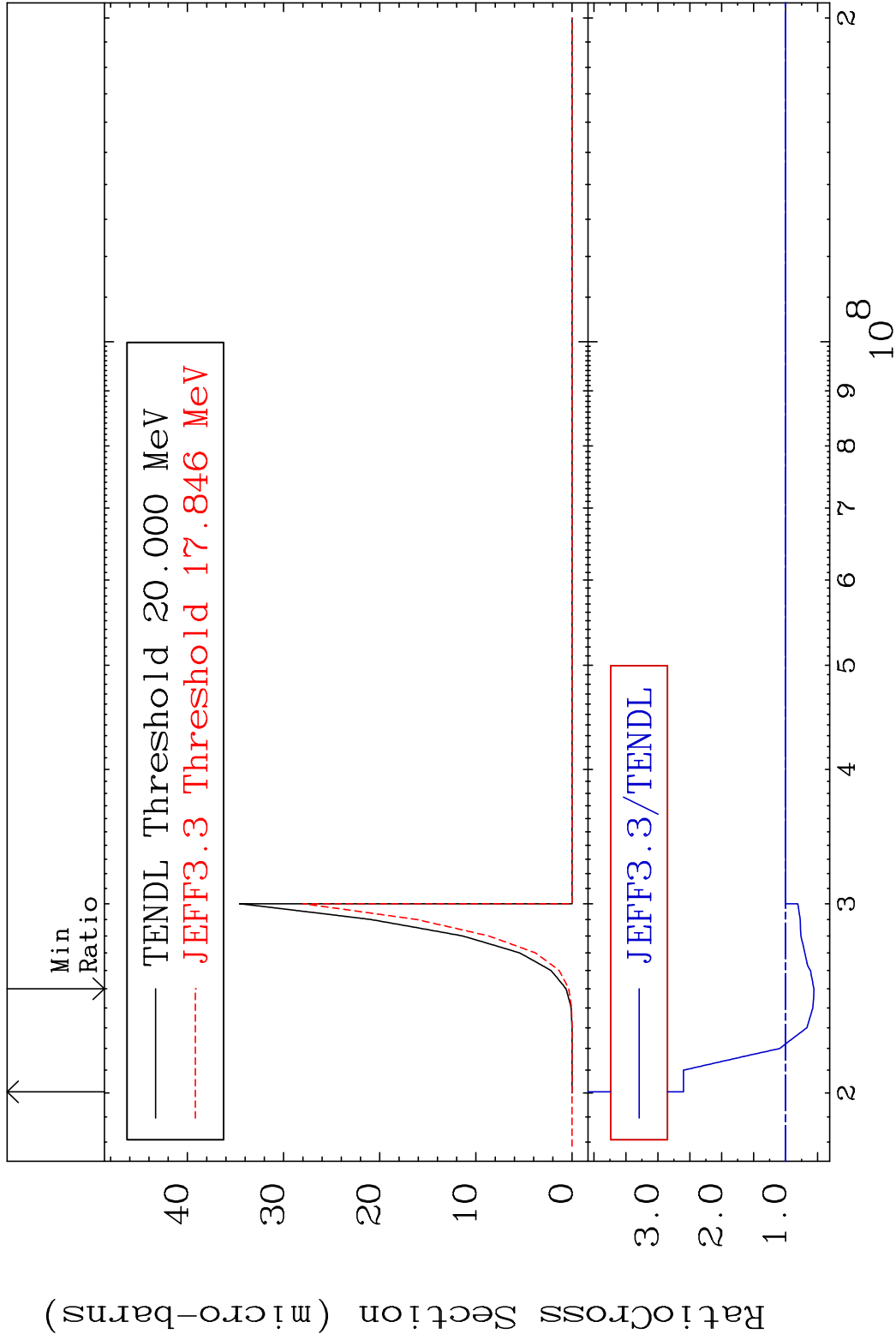
MAT 3631 (n,p) t:34-Se-77g 36-Kr-80  
 Radionuclide Production Cross Section 52e49i d10 149.0 %



79 36-Kr-80



MAT 3631 (n, p) t:34-Se-77m1 36-Kr-80  
 Radionuclide Production Cross Section 4.5e-5 dpo 159.9 %



80 36-Kr-80