

Program Complot  
(Version 2018-1)

by

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Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

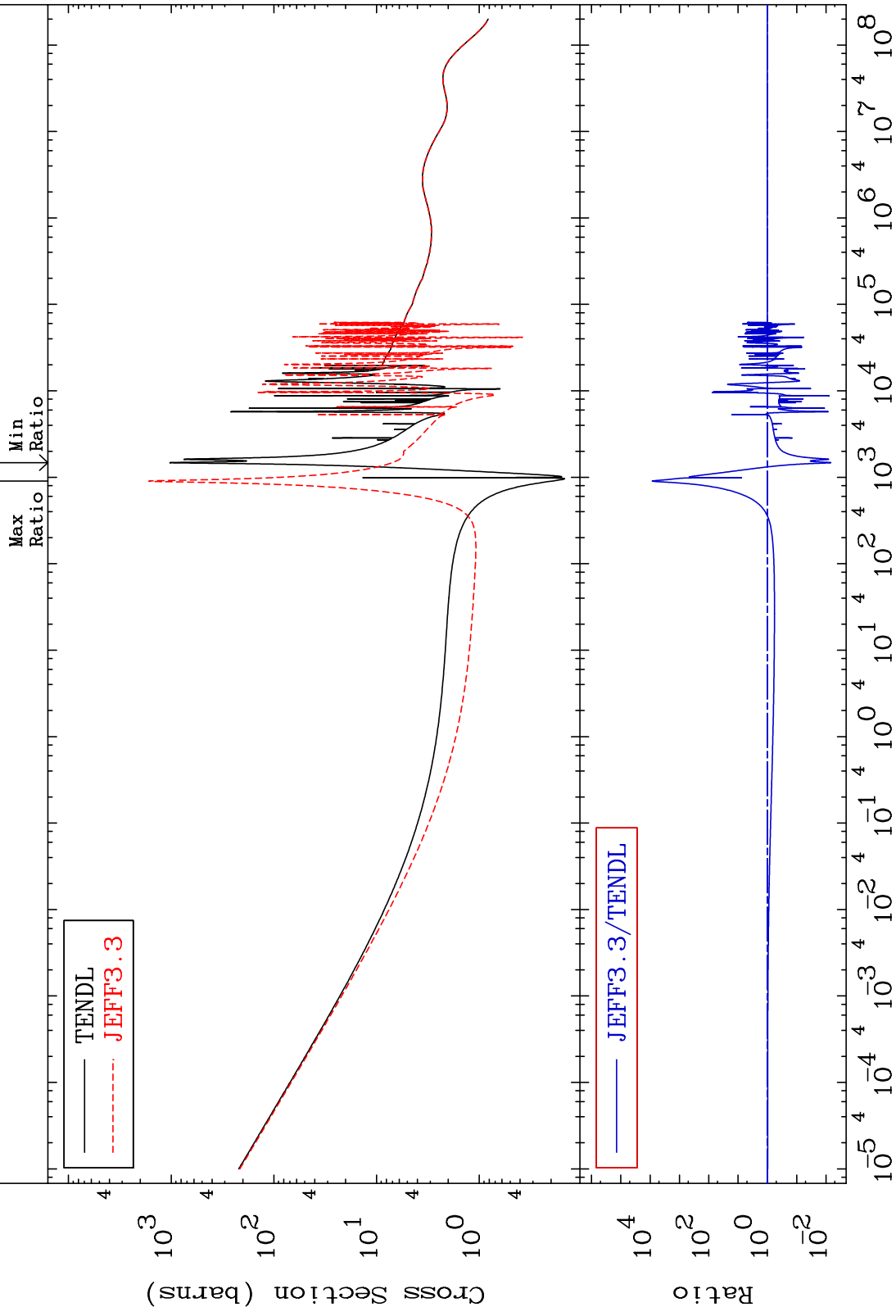
MAT 2028

Total

20-Ca-41

-99.32 To 9999. %

Cross Section



1

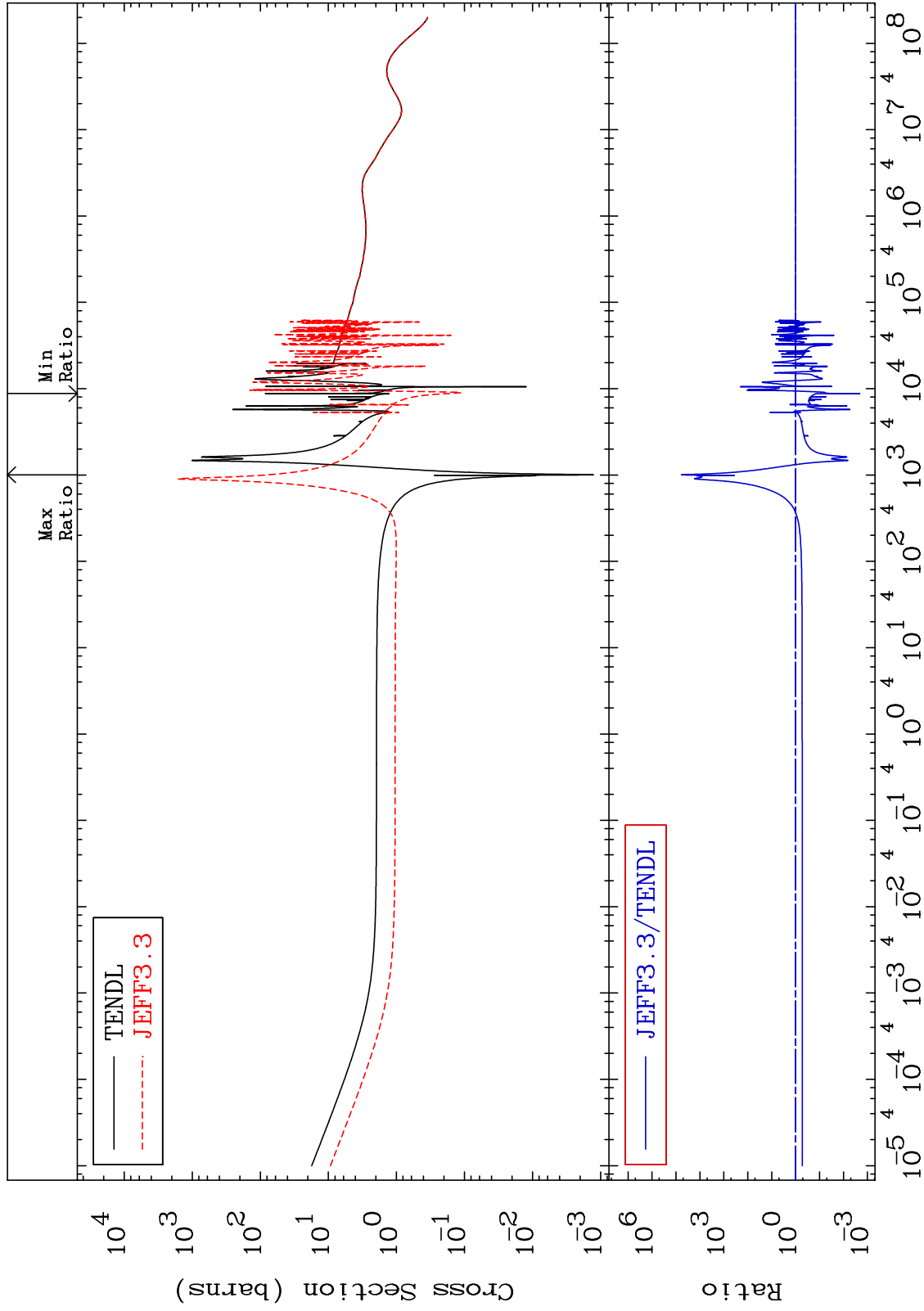
Incident Energy (eV)

20-Ca-41

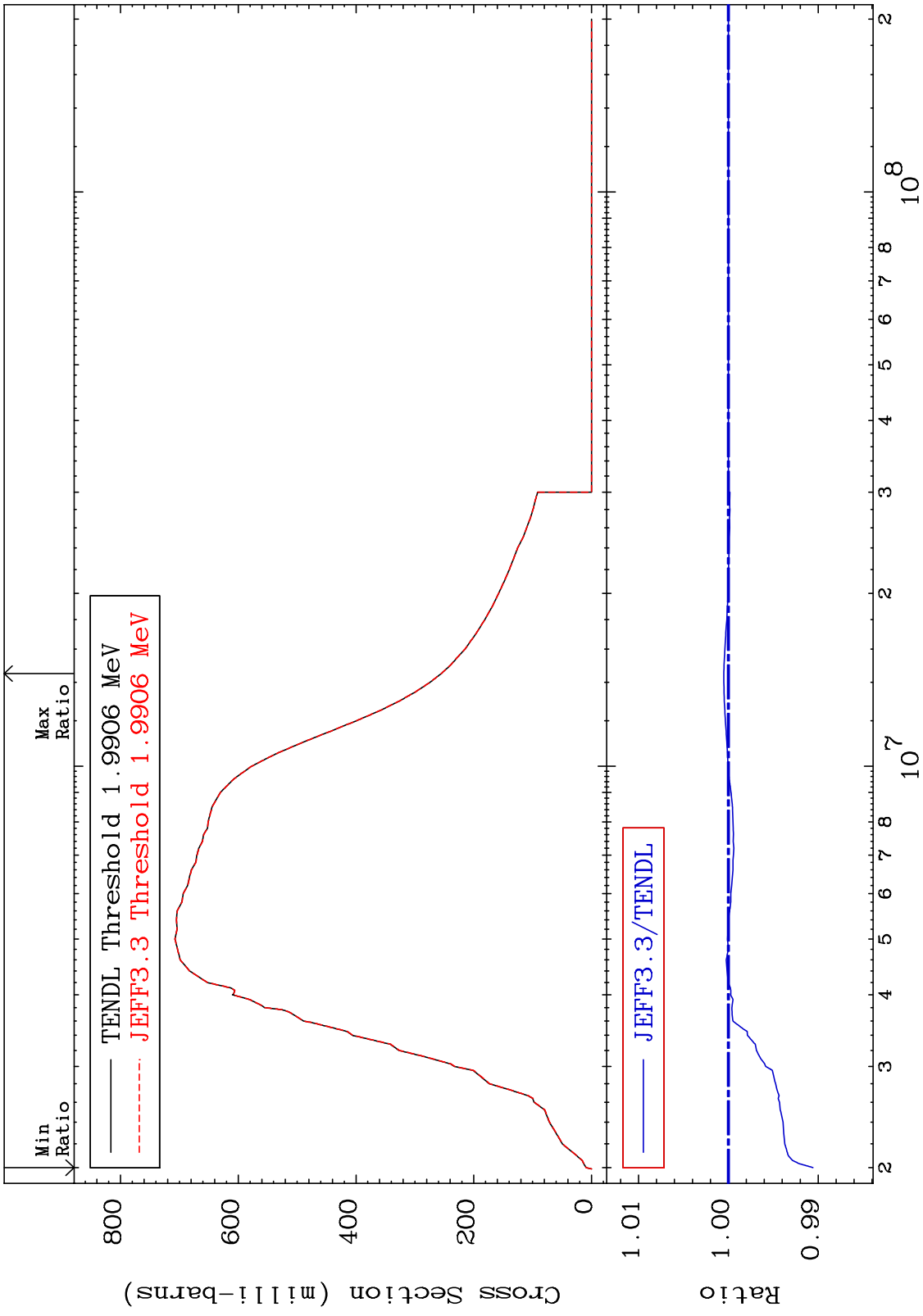
MAT 2028

Elastic  
Cross Section

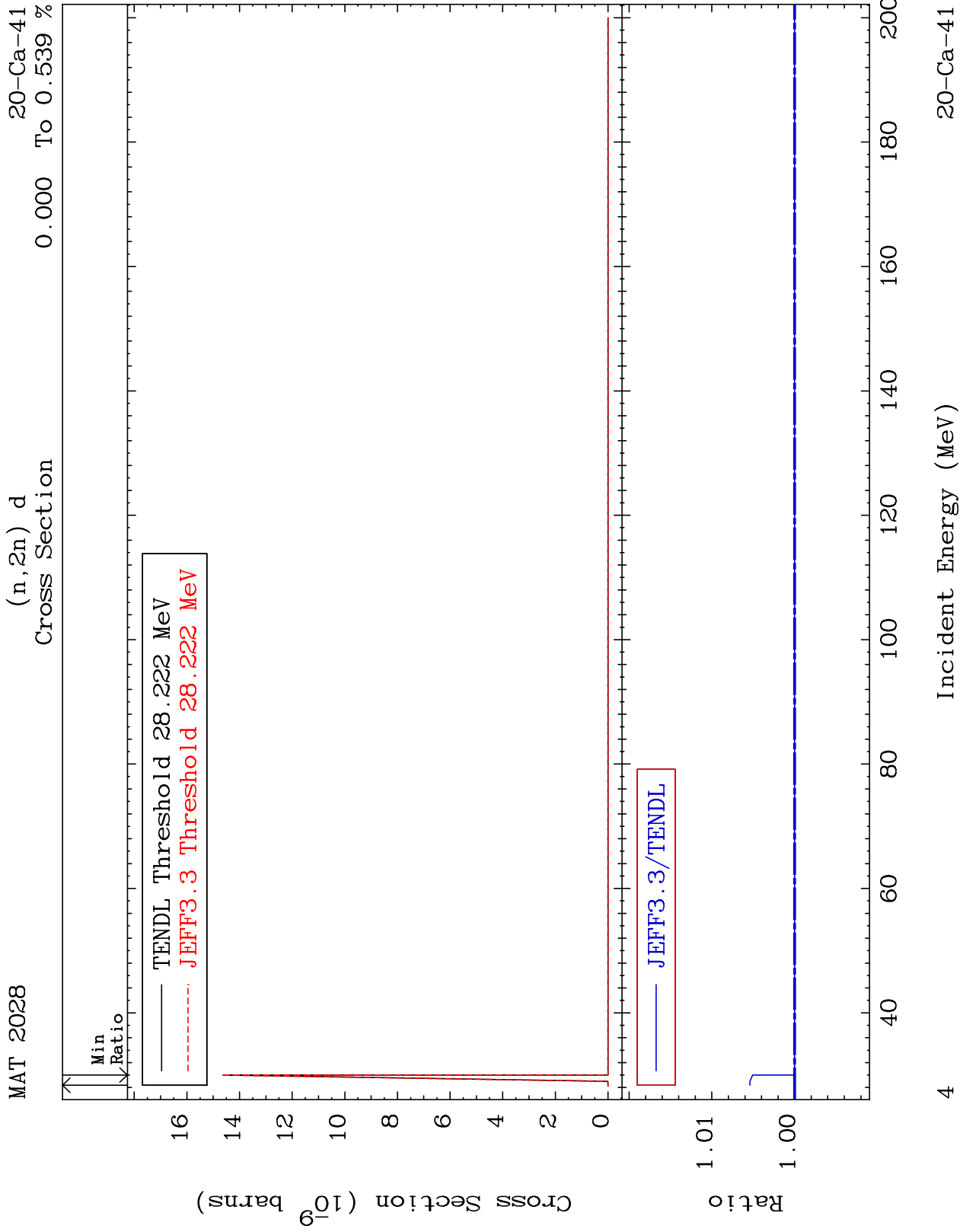
20-Ca-41  
-99.79 To 9999. %



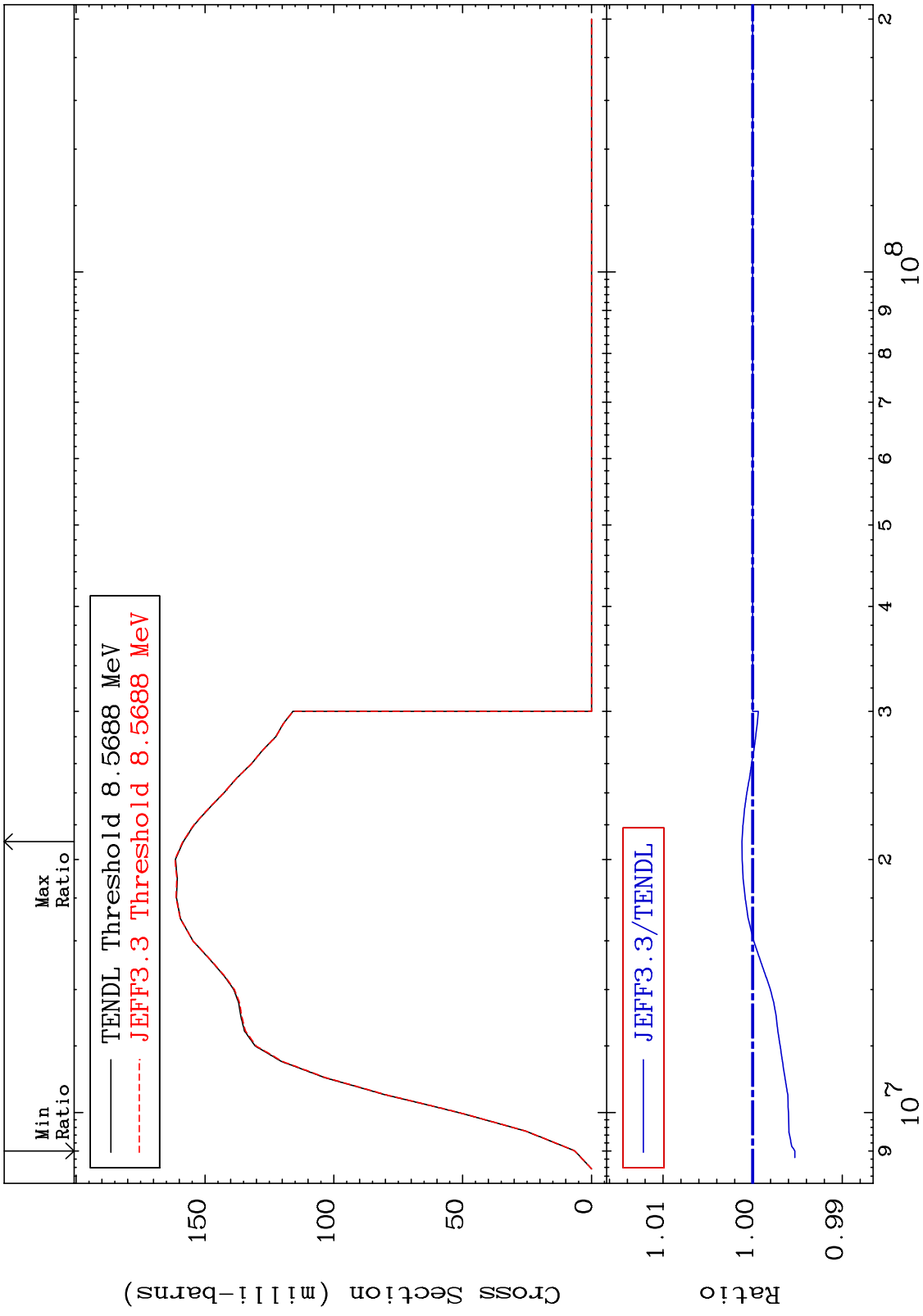
MAT 2028 Inelastic Cross Section 20-Ca-41 -0.943 To 0.051 %



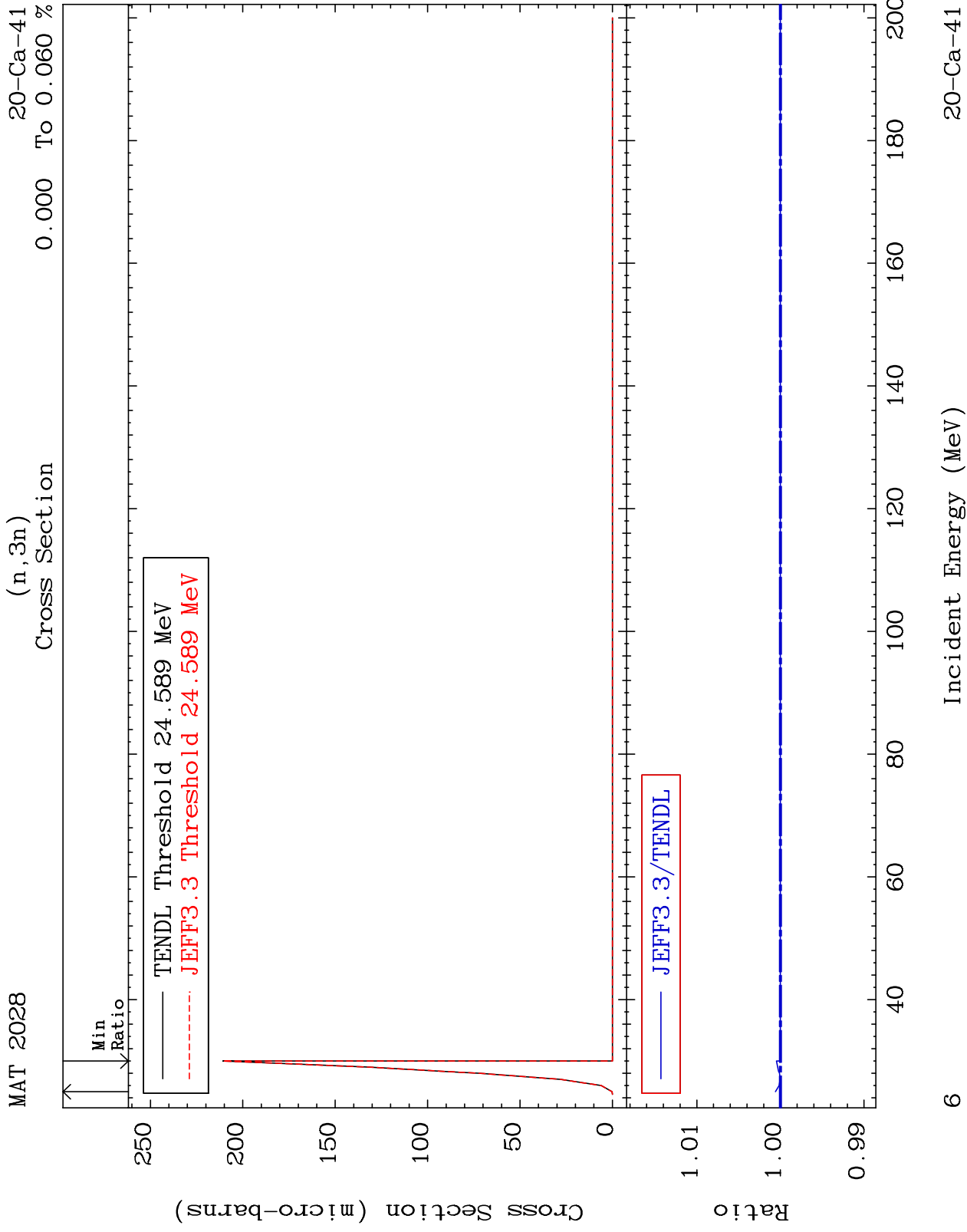
3 Incident Energy (eV) 20-Ca-41



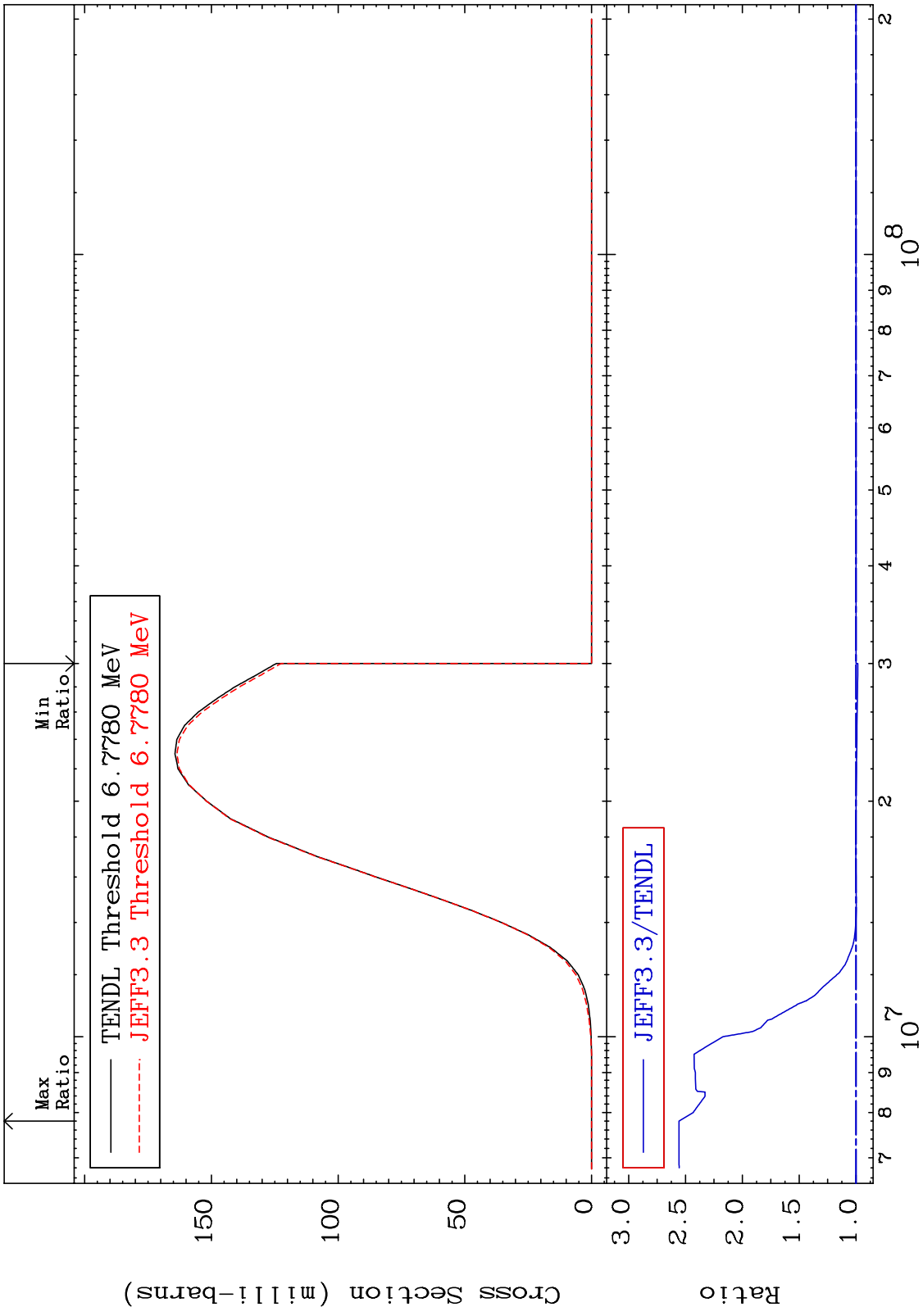
MAT 2028 (n,2n) Cross Section 20-Ca-41 -0.472 To 0.119 %



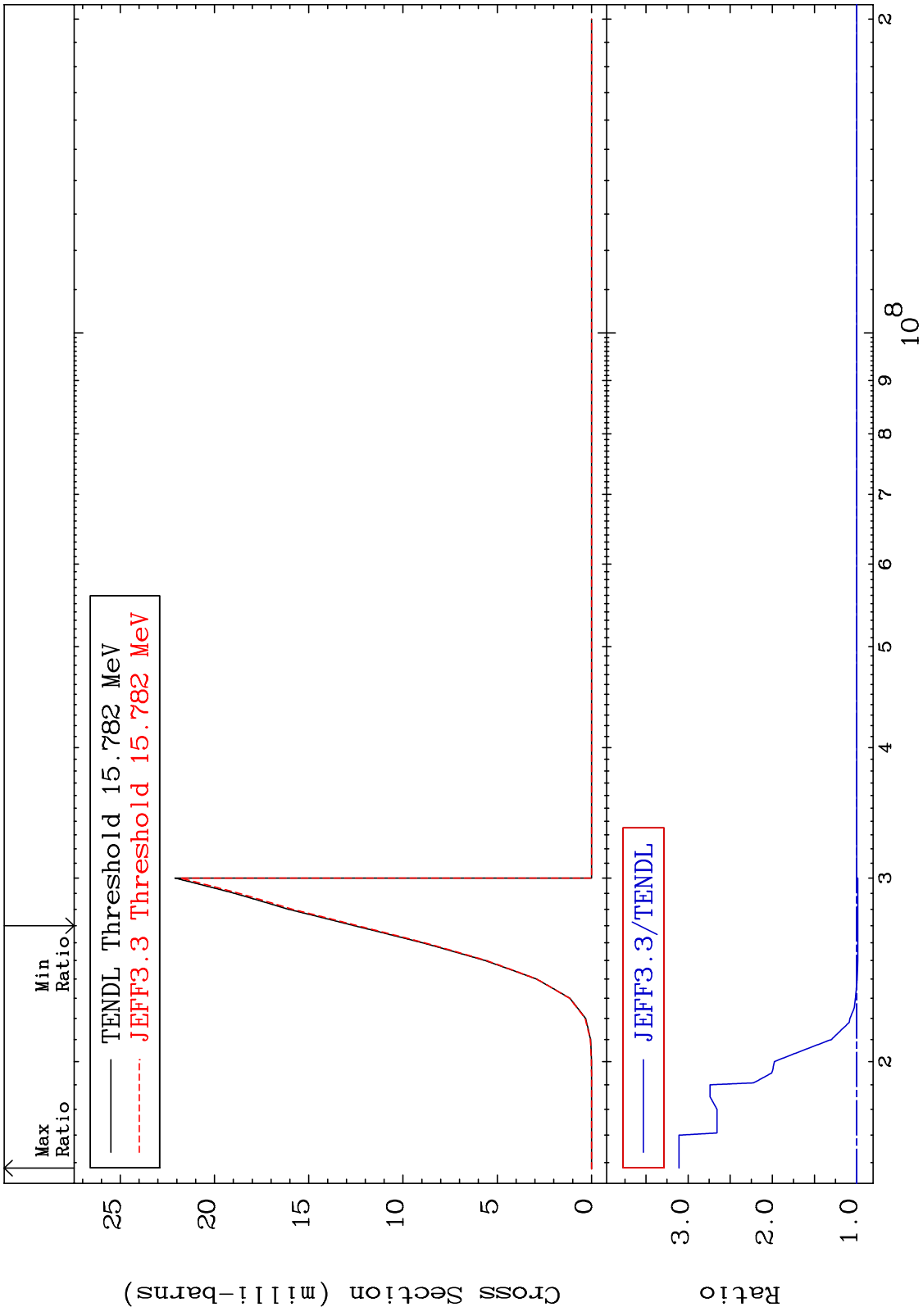
20-Ca-41 Incident Energy (eV) 20-Ca-41



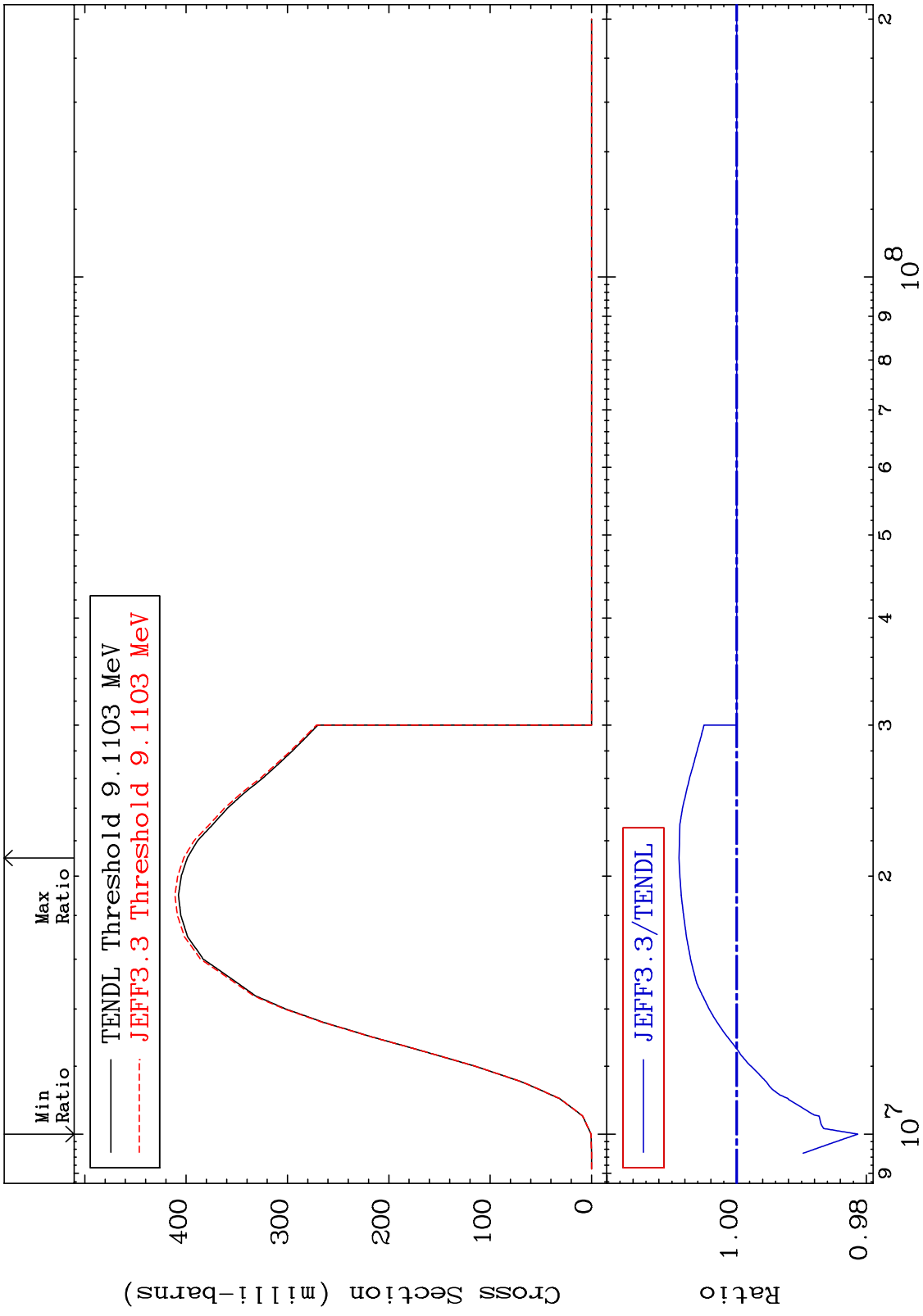
MAT 2028  $(n, n') \alpha$  20-Ca-41  
-1.515 To 155.8 %



MAT 2028 (n,2n)  $\alpha$  20-Ca-41  
 Cross Section -1.427 To 210.7 %

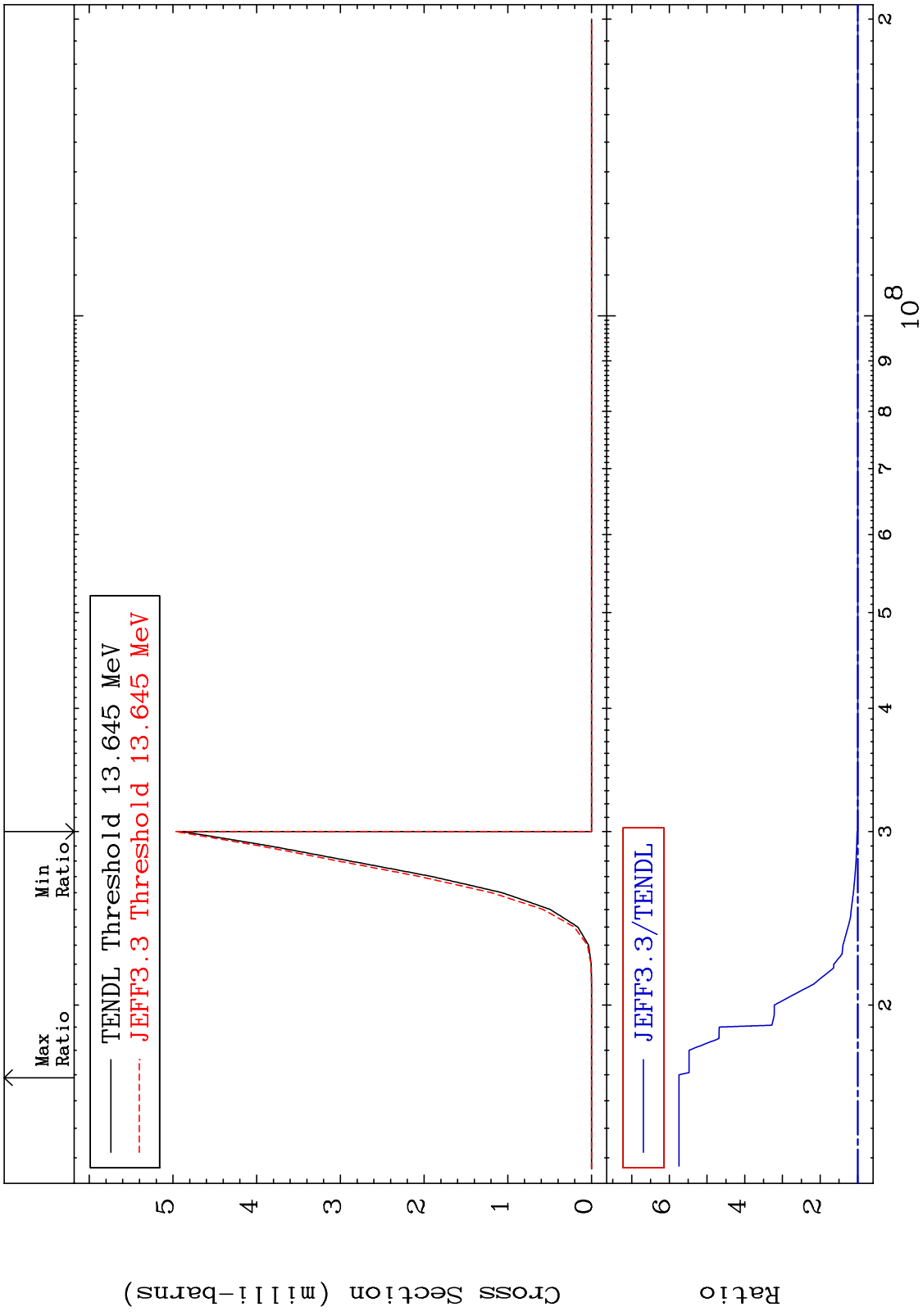


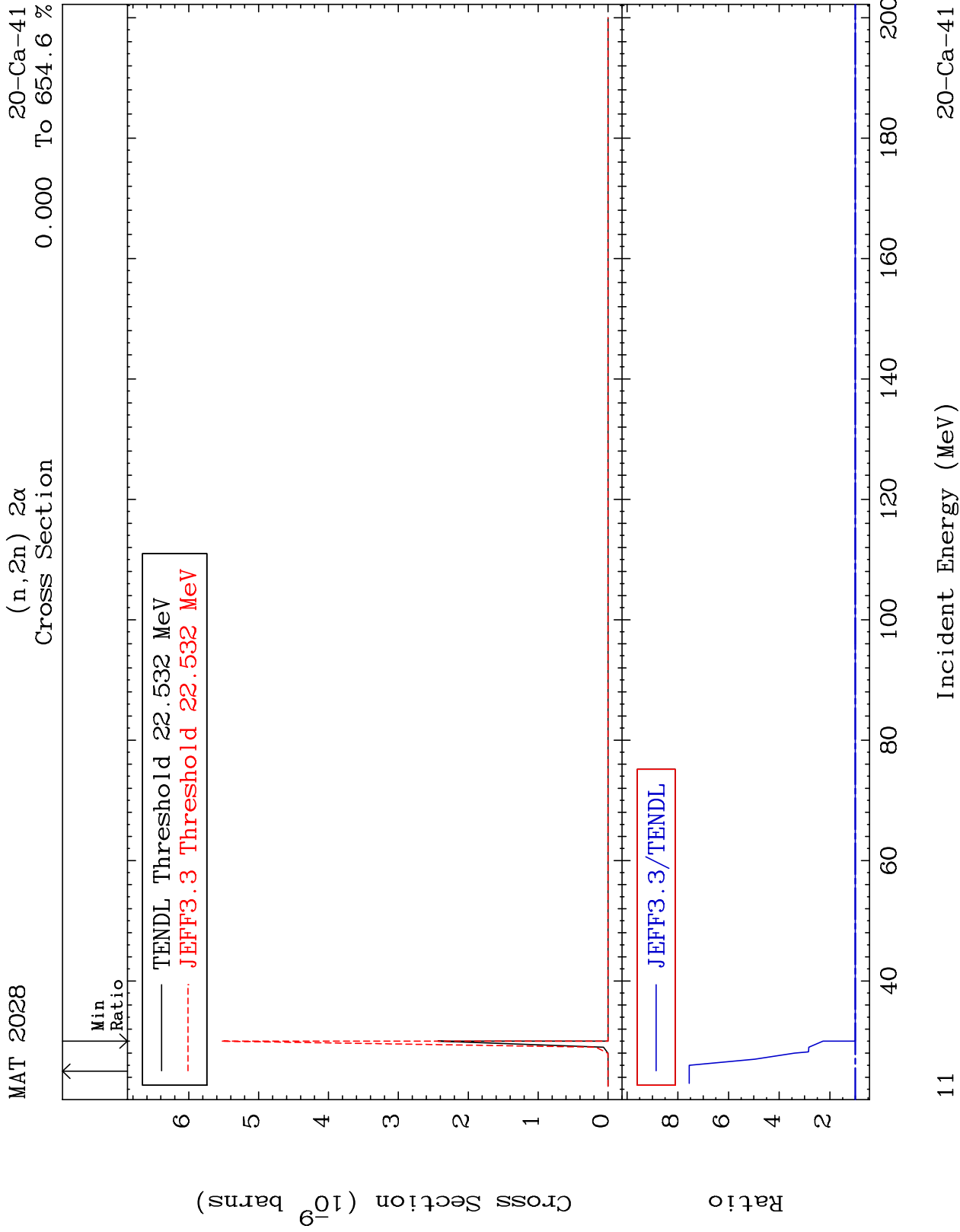
MAT 2028 (n,n') p 20-Ca-41  
Cross Section -1.869 To 0.890 %



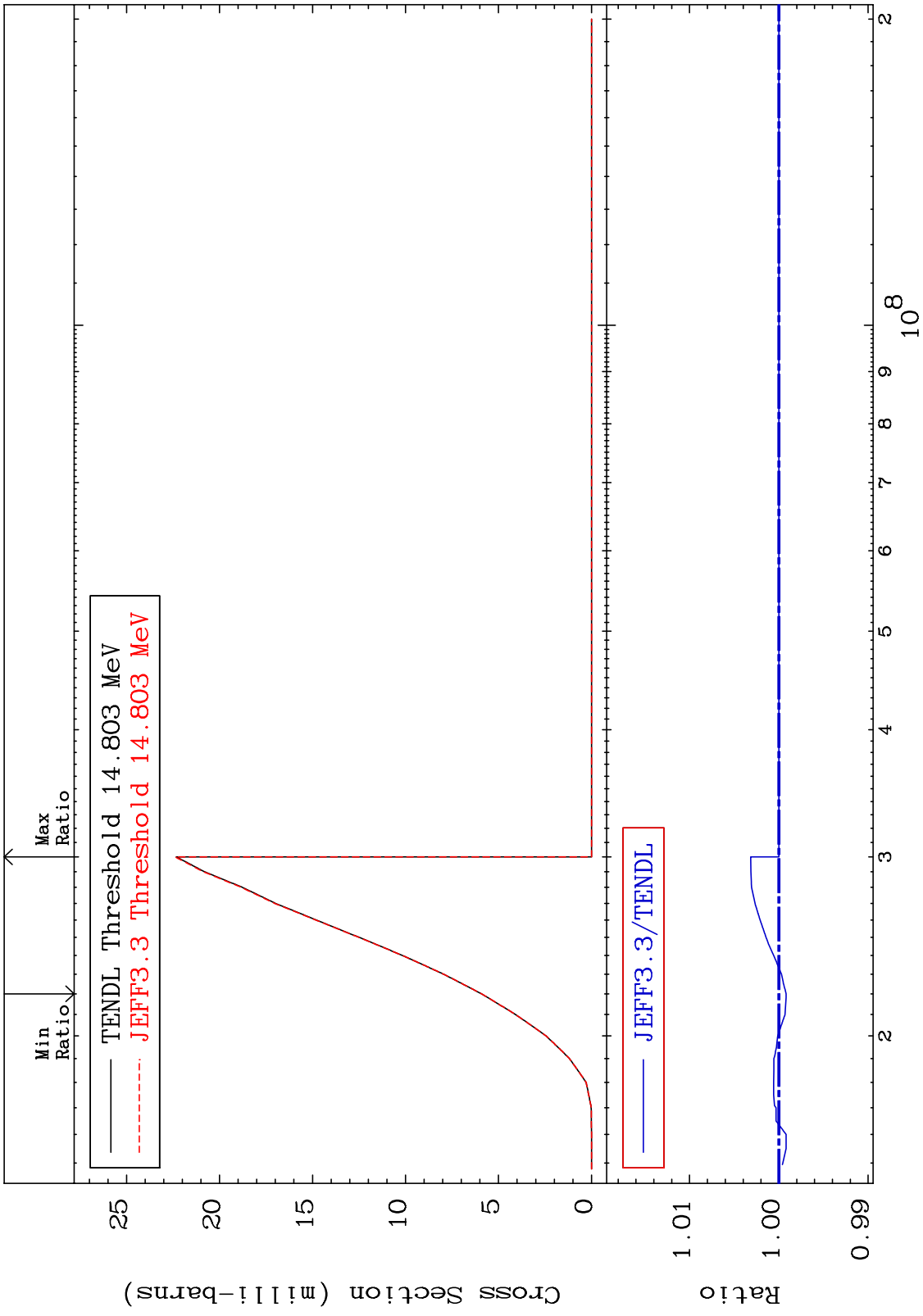
Incident Energy (eV) 20-Ca-41

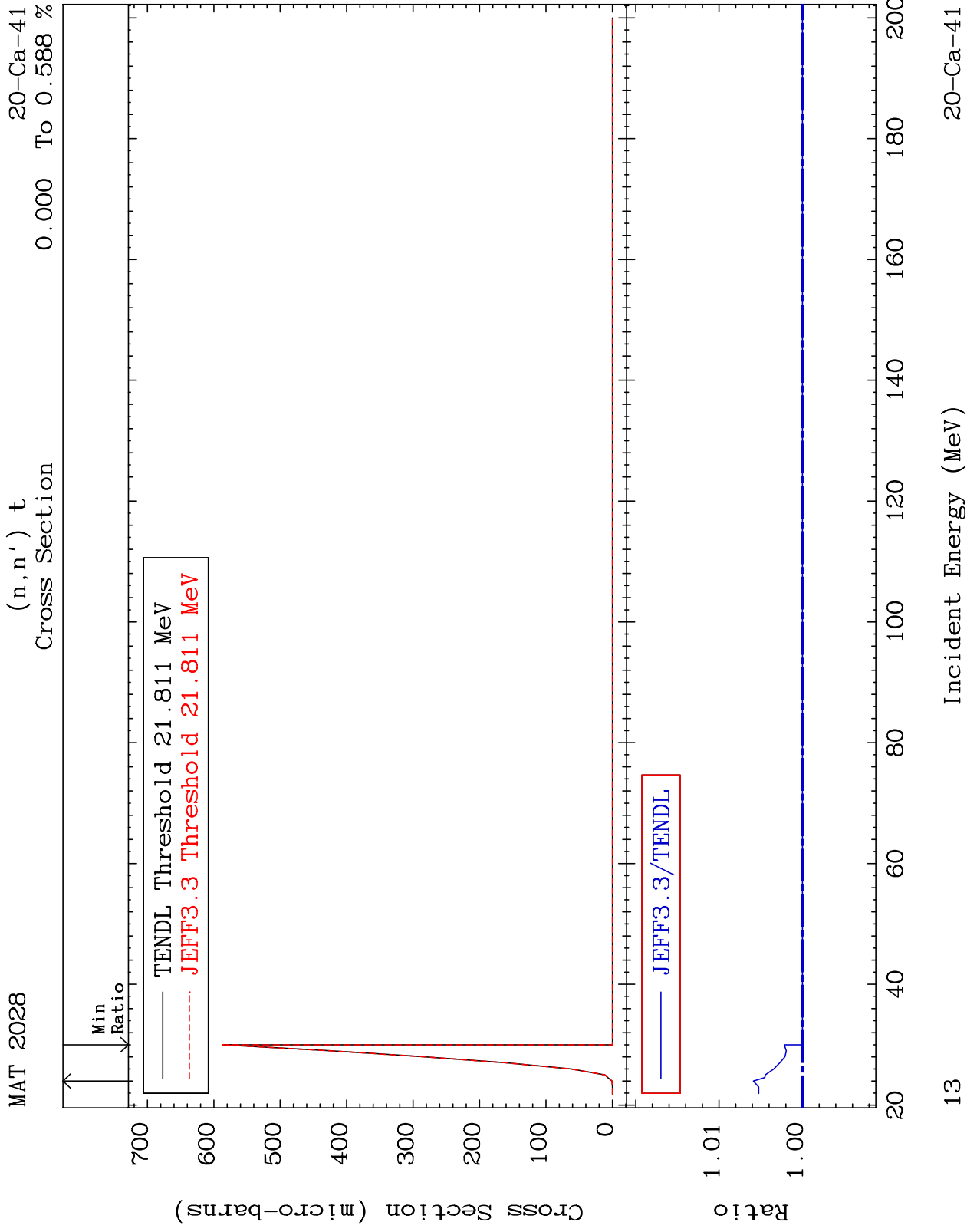
MAT 2028 (n,n') 2α Cross Section 20-Ca-41 To 474.3 %



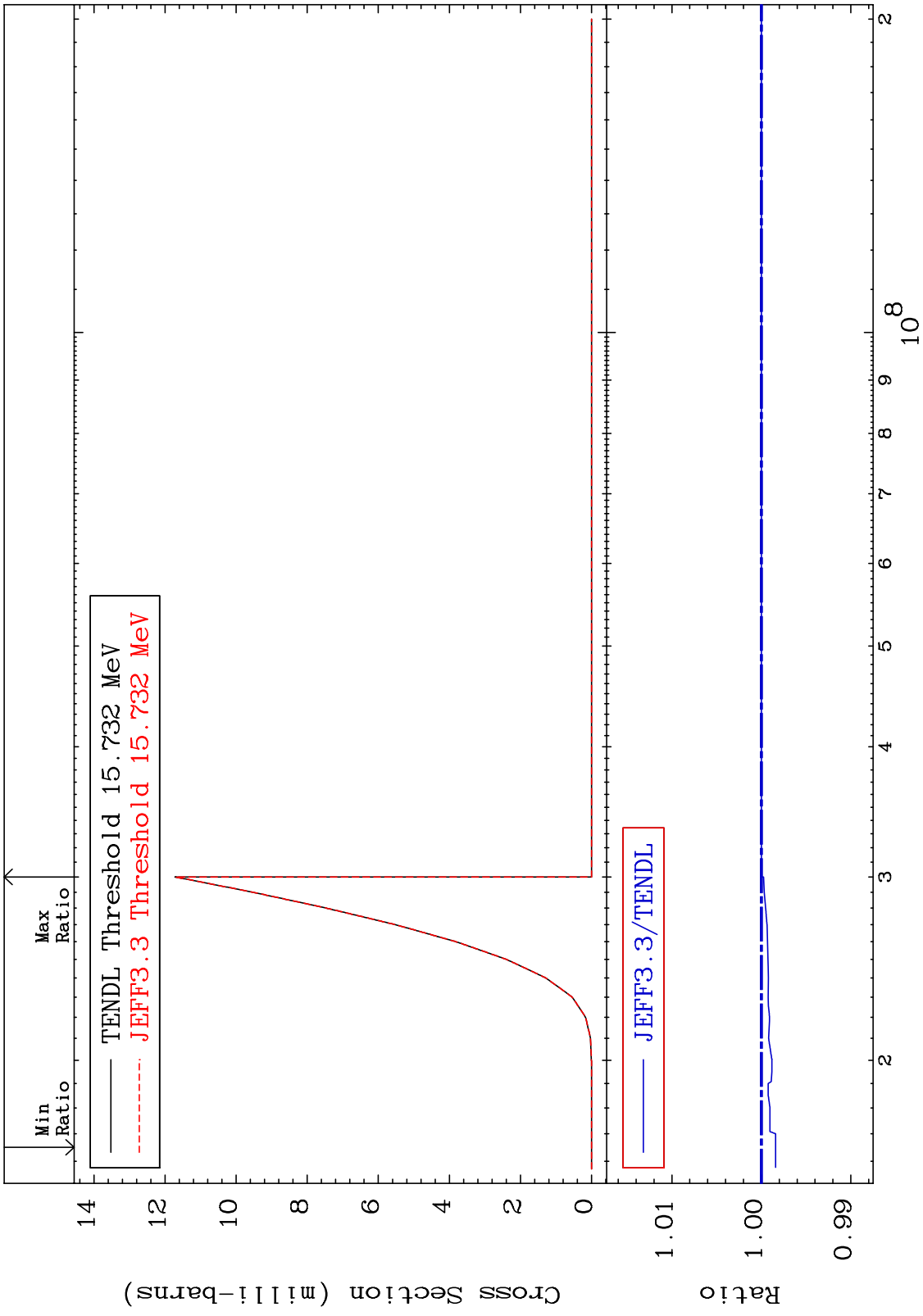


MAT 2028 (n, n') d 20-Ca-41  
 Cross Section -0.082 To 0.315 %

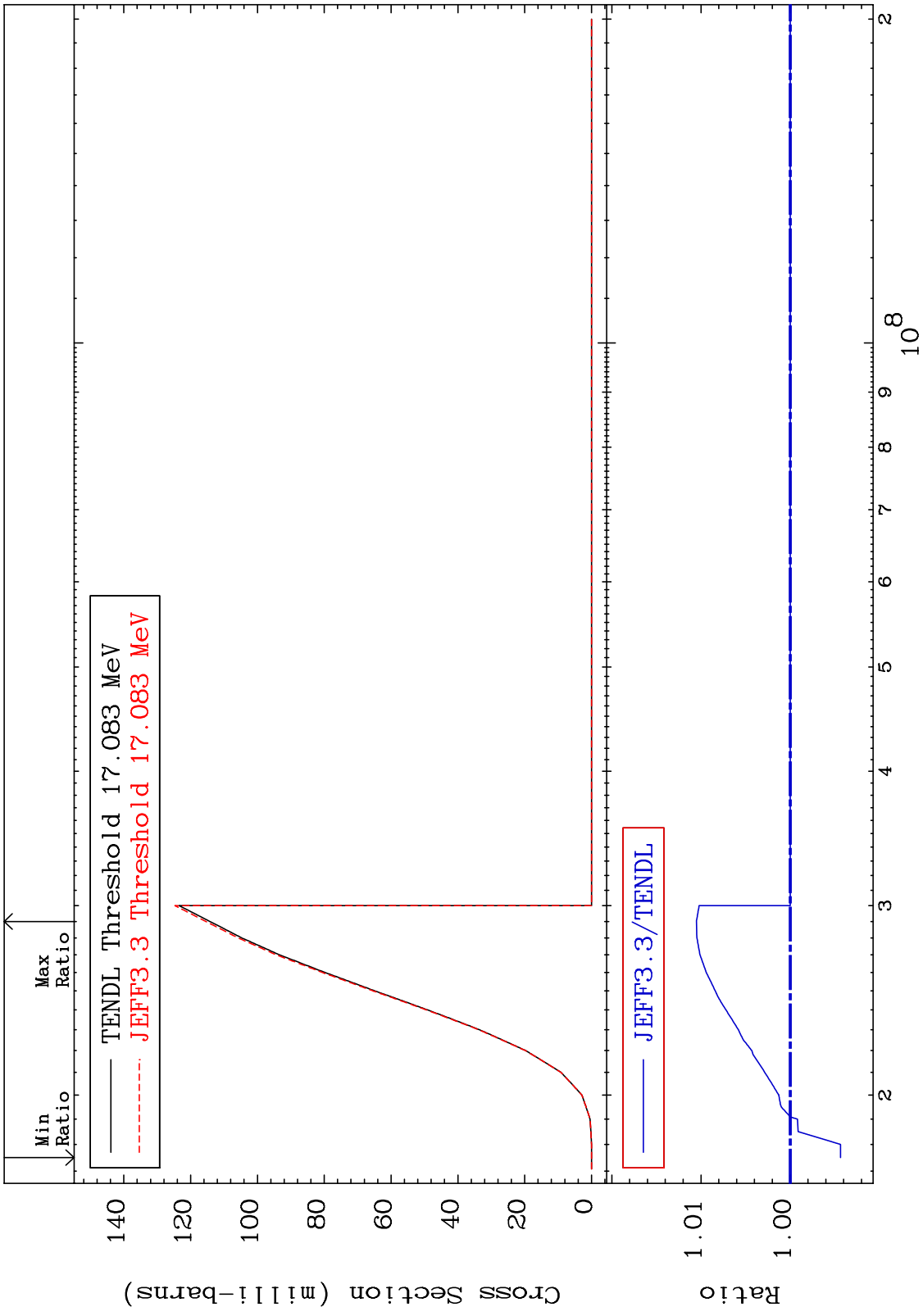




MAT 2028 (n, n') He-3 20-Ca-41  
 Cross Section -0.159 To 0.000 %

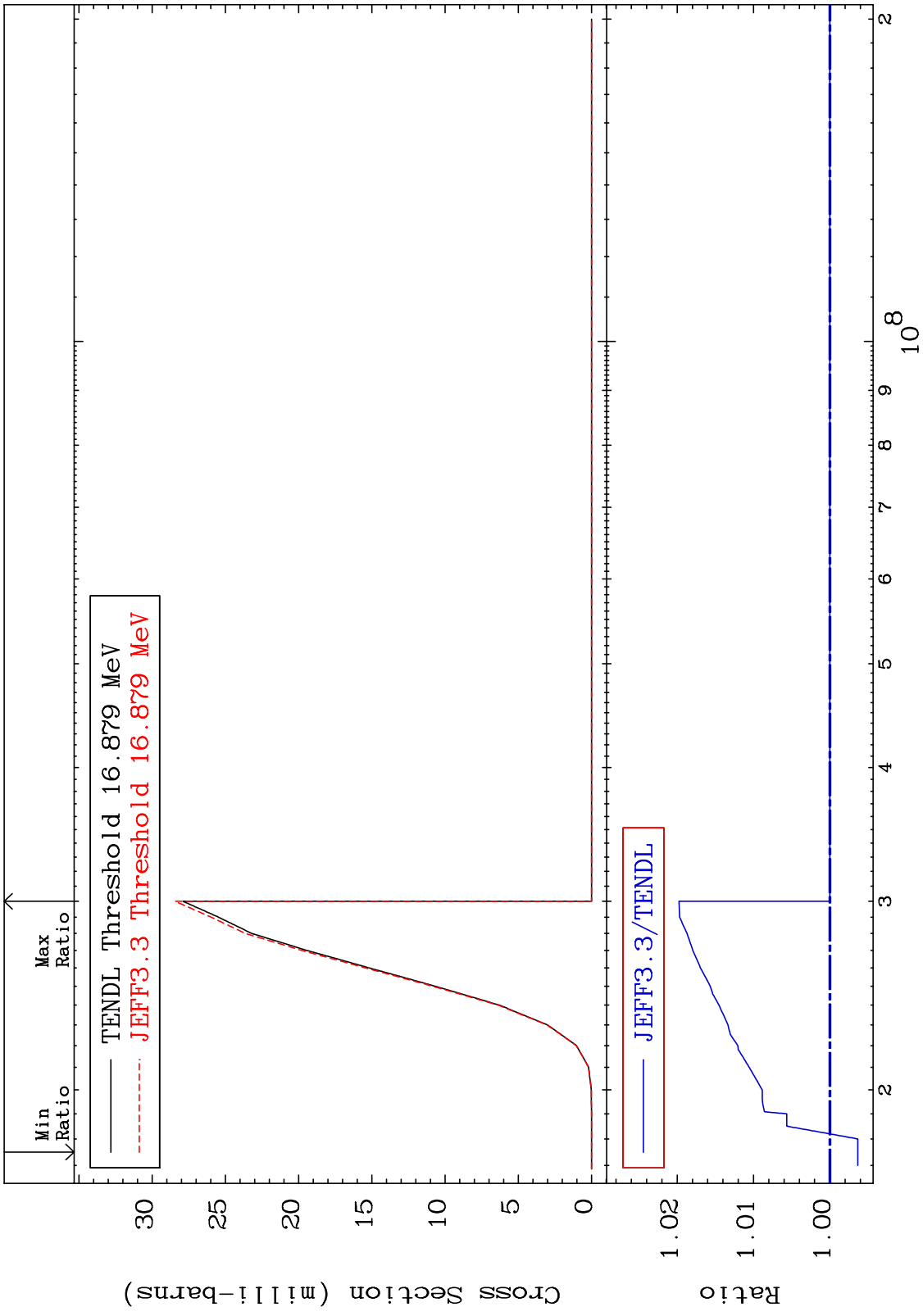


MAT 2028 (n,2n) p 20-Ca-41  
 Cross Section -0.564 To 1.051 %



15 20-Ca-41

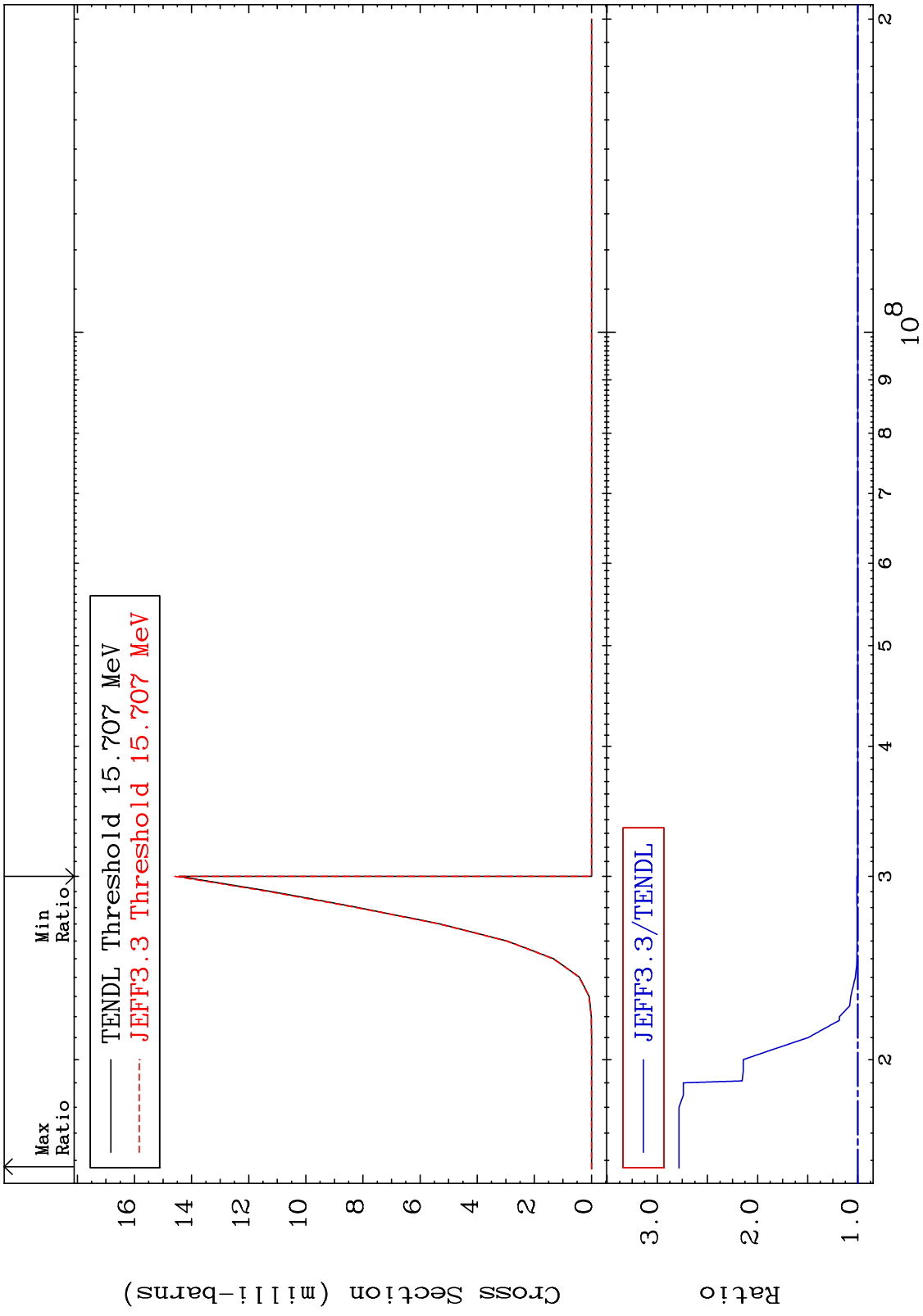
MAT 2028 (n,2n) p 20-Ca-41  
 Cross Section -0.367 To 1.976 %



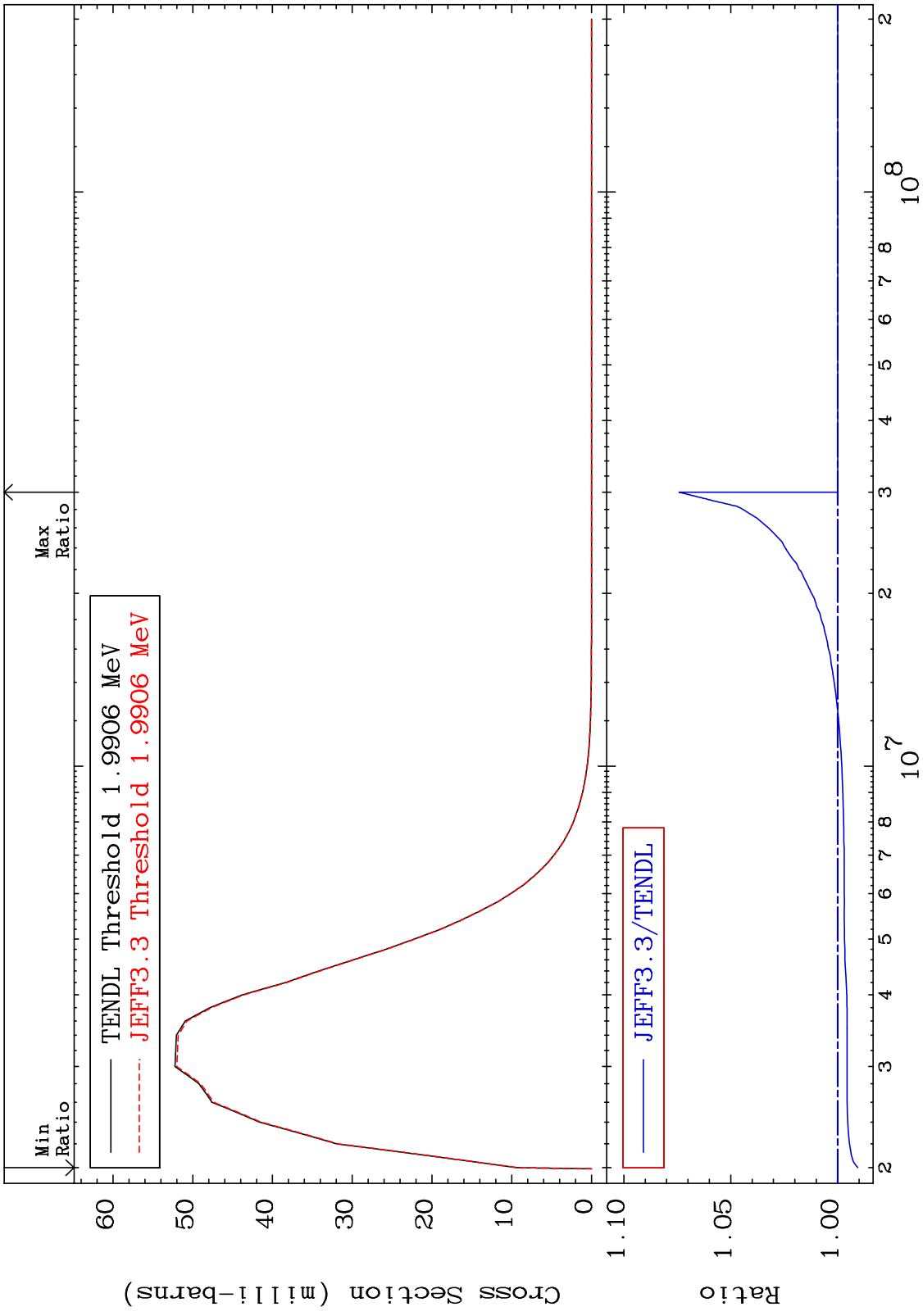
20-Ca-41

Incident Energy (eV)

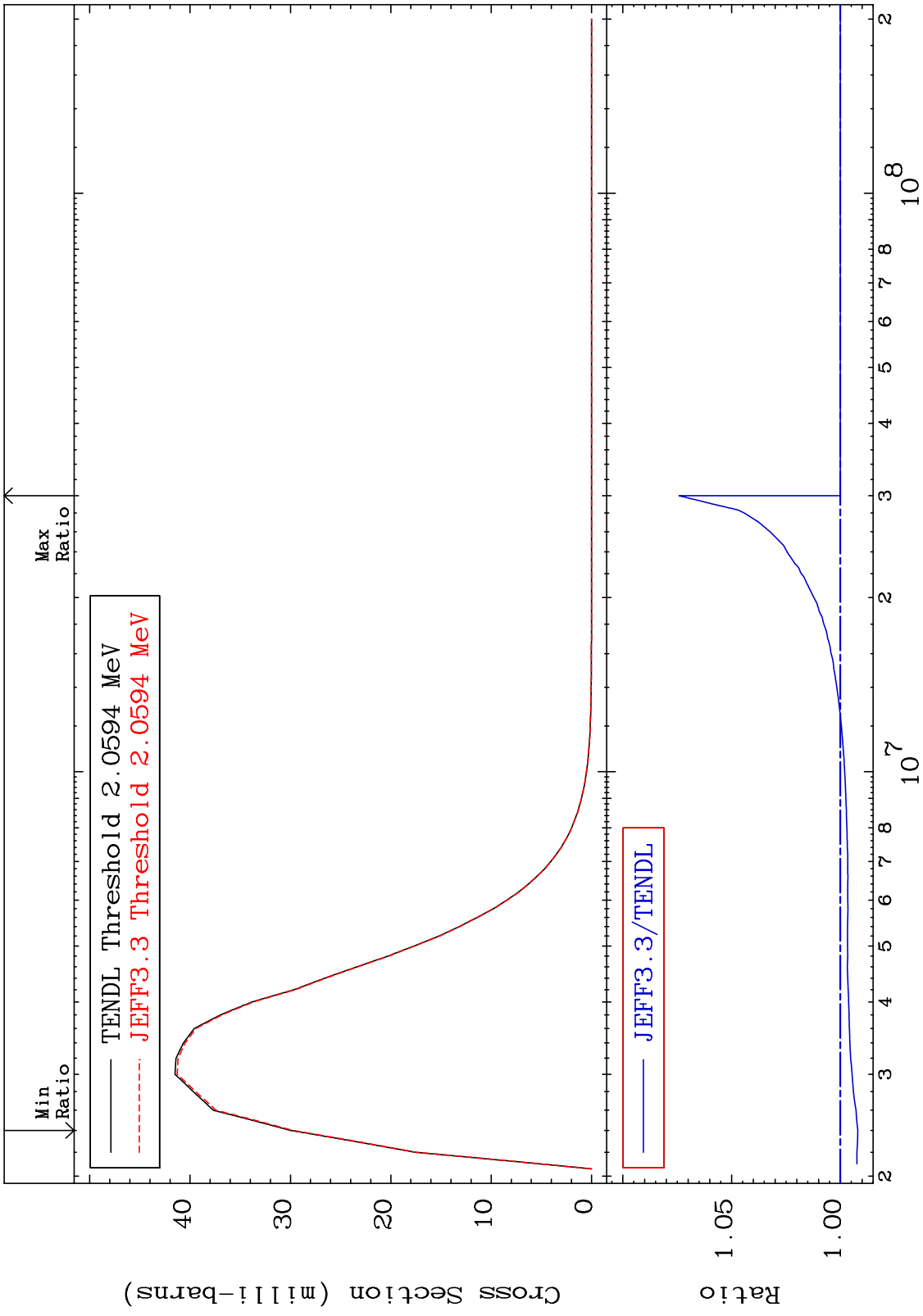
MAT 2028 (n,n') p α Cross Section 20-Ca-41 To 178.3 %



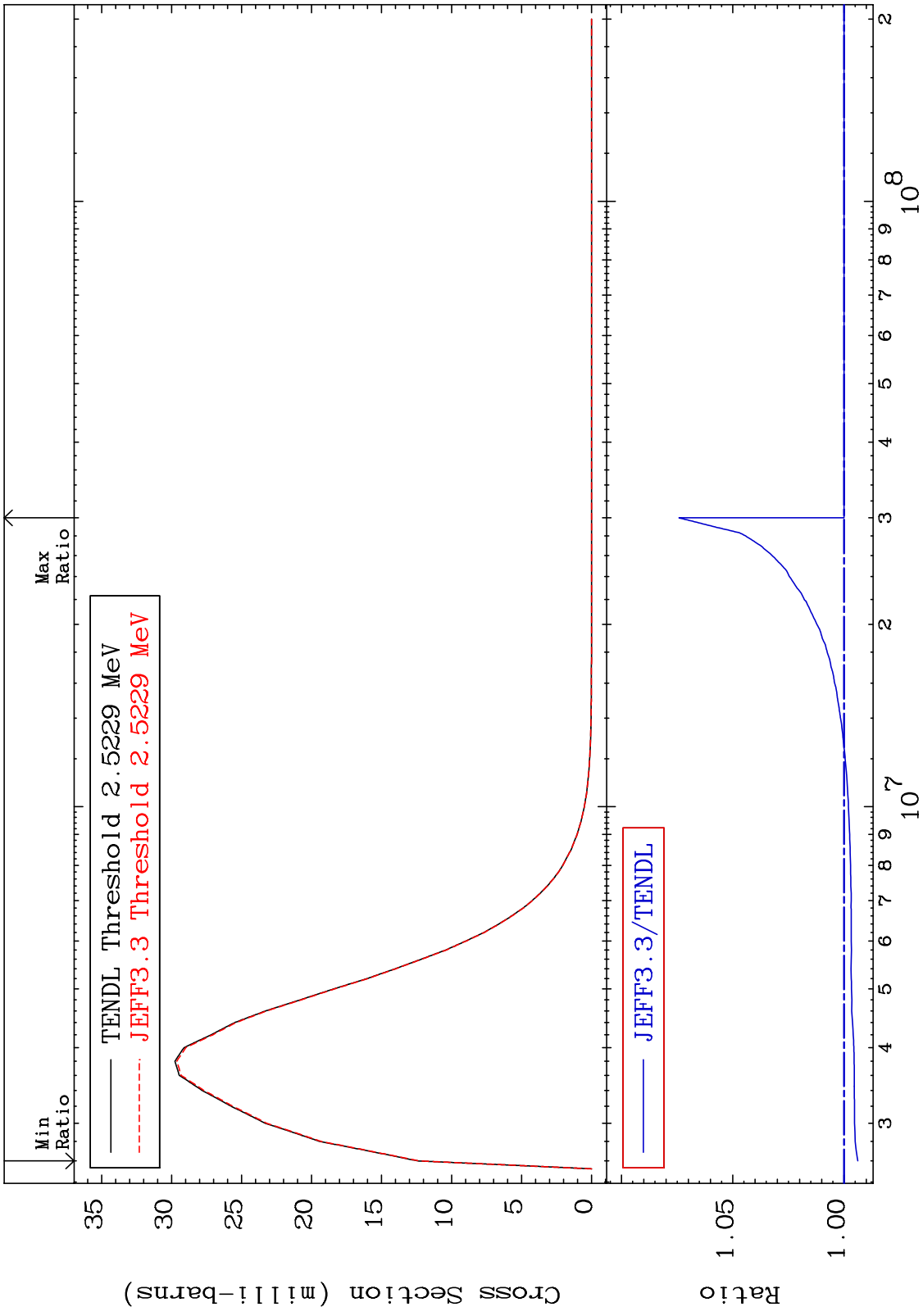
MAT 2028 MT= 51 (n,n') Level Cross Section -0.943 To 7.418 % 20-Ca-41



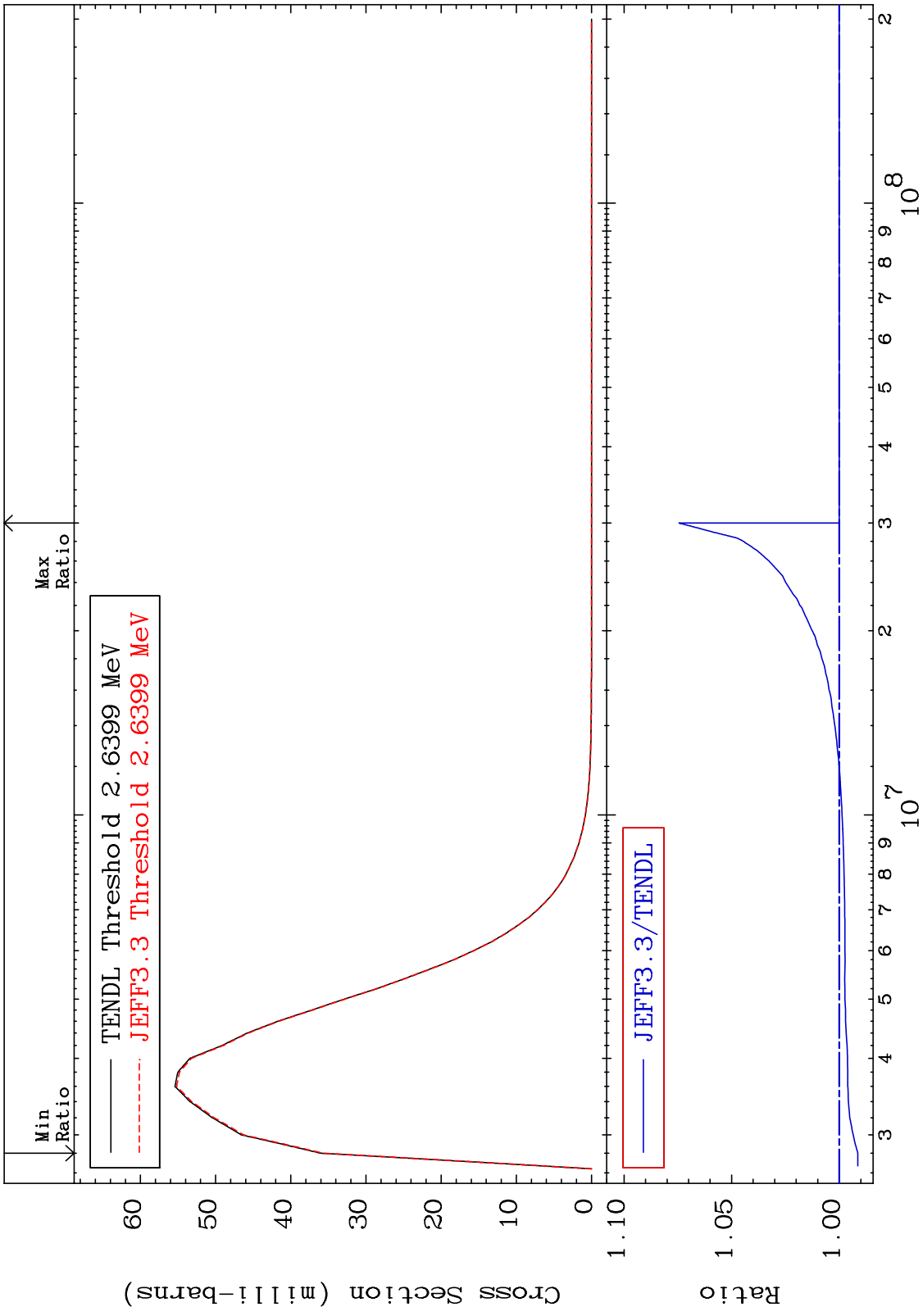
MAT 2028 MT= 52 (n,n') Level Cross Section -0.803 To 7.417 % 20-Ca-41



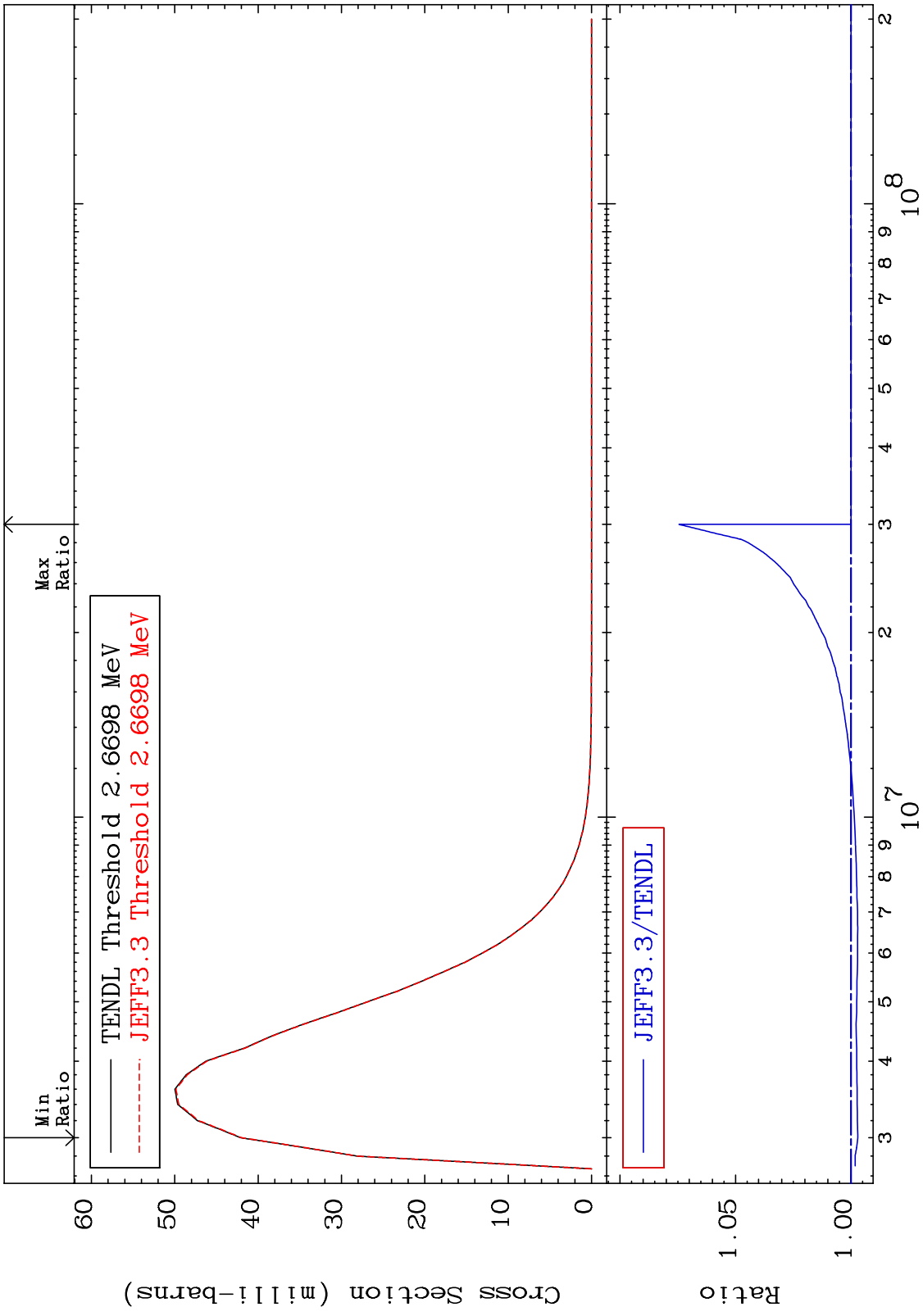
MAT 2028 MT= 53 (n, n') Level Cross Section -0.618 To 7.415 % 20-Ca-41



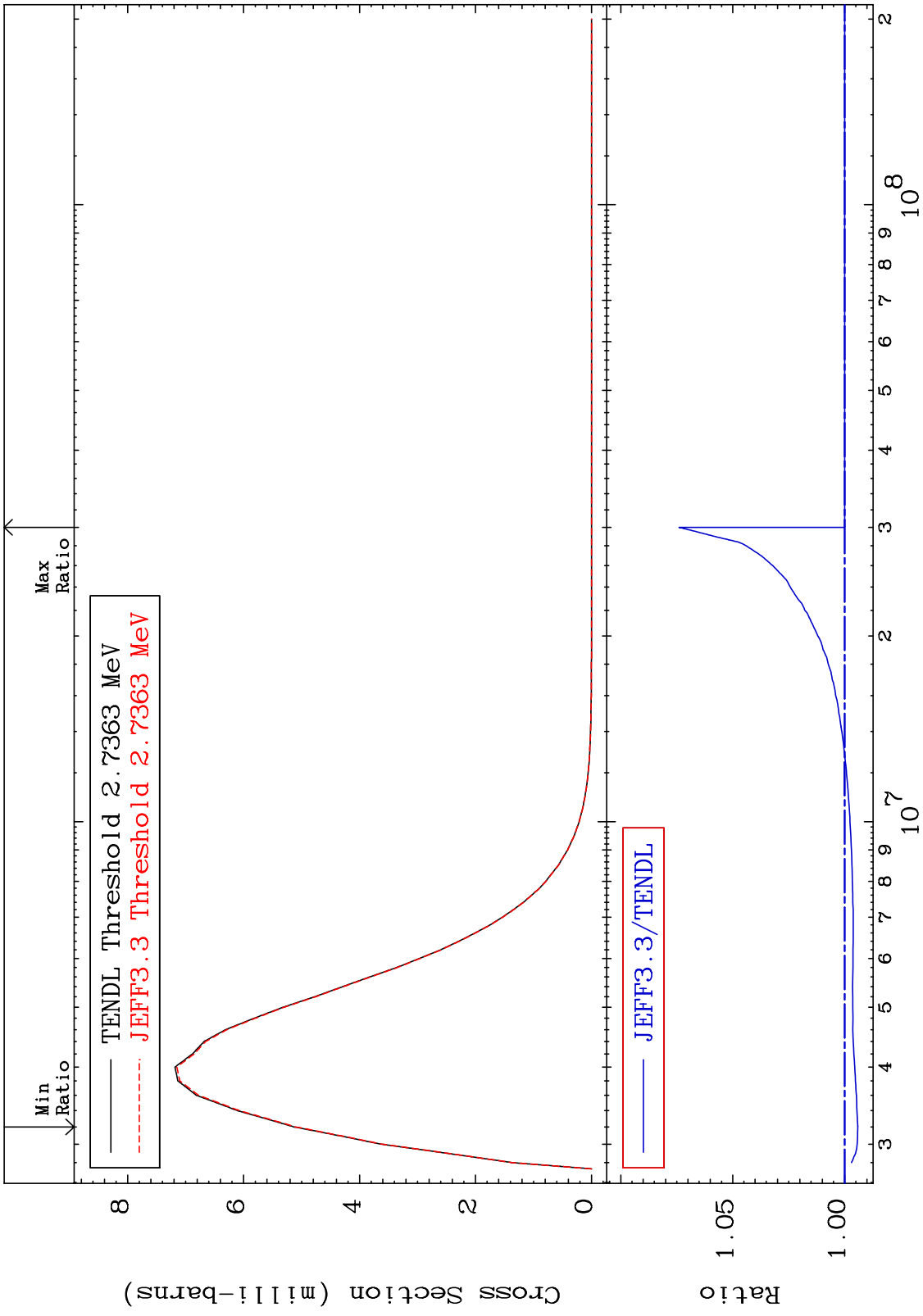
MAT 2028 MT= 54 (n,n') Level Cross Section -0.864 To 7.444 % 20-Ca-41



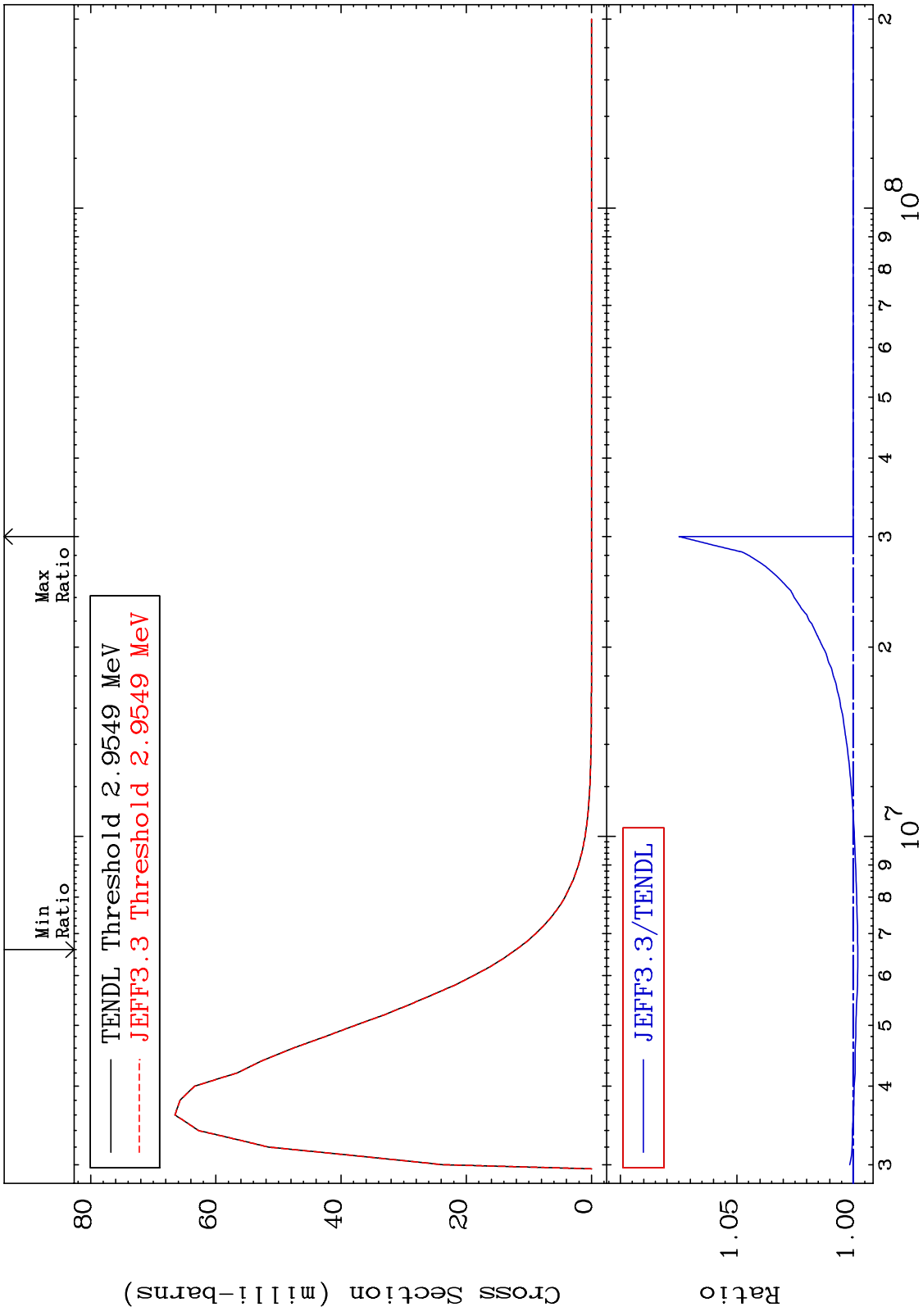
MAT 2028 MT= 55 (n,n') Level Cross Section -0.294 To 7.445 % 20-Ca-41



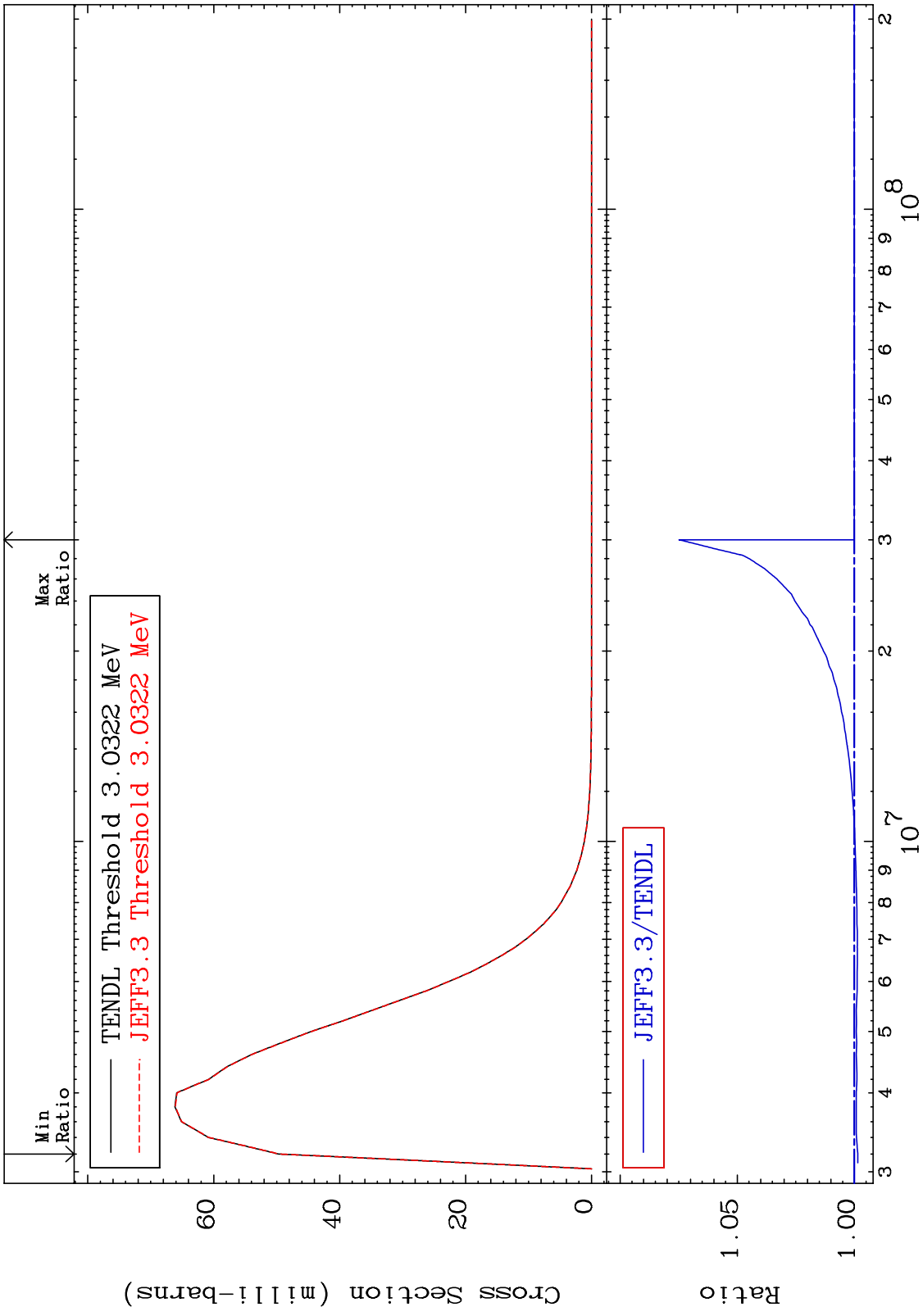
MAT 2028 MT= 56 (n,n') Level Cross Section -0.589 To 7.397 % 20-Ca-41



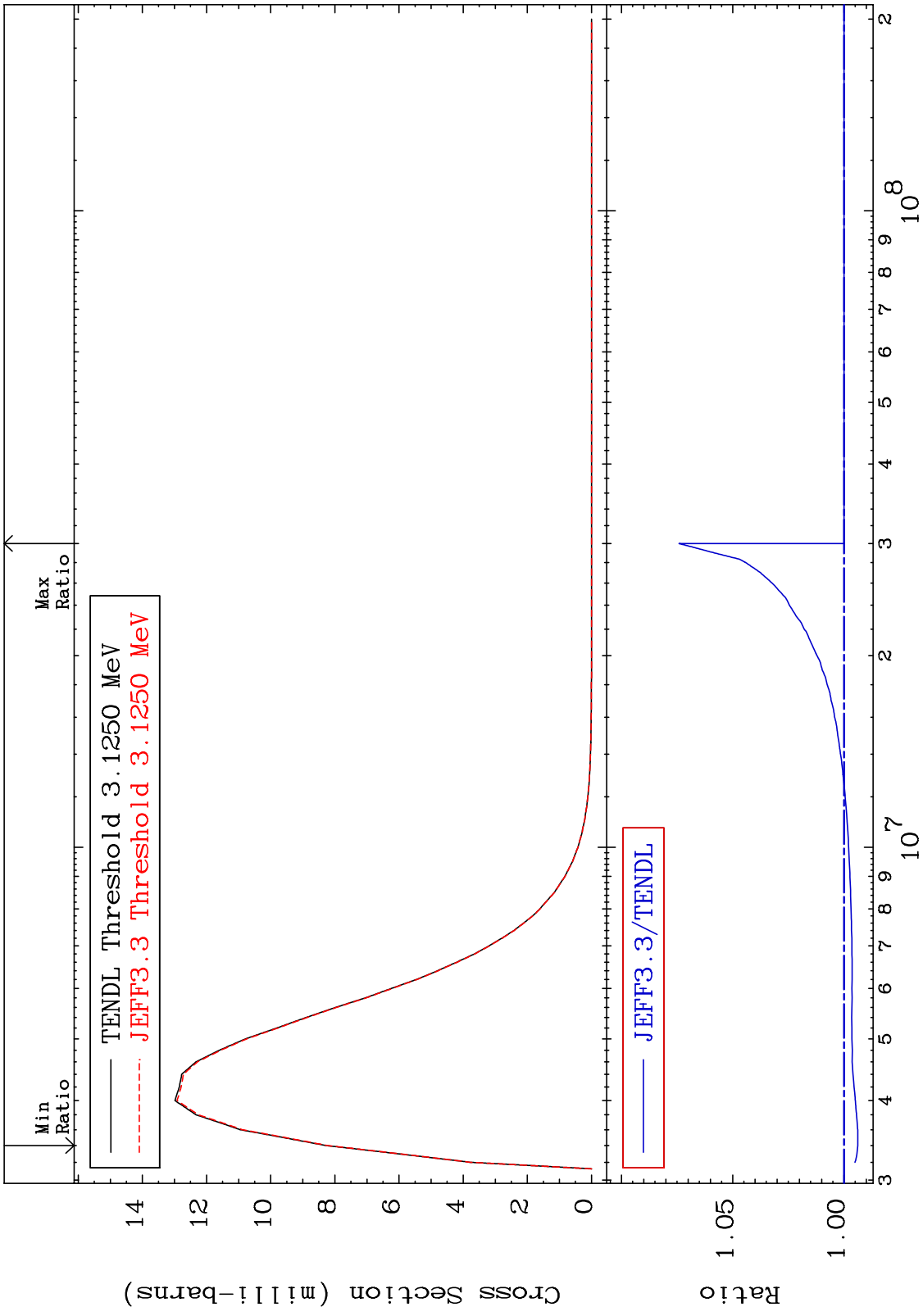
MAT 2028 MT= 57 (n, n') Level Cross Section -0.202 To 7.483 % 20-Ca-41



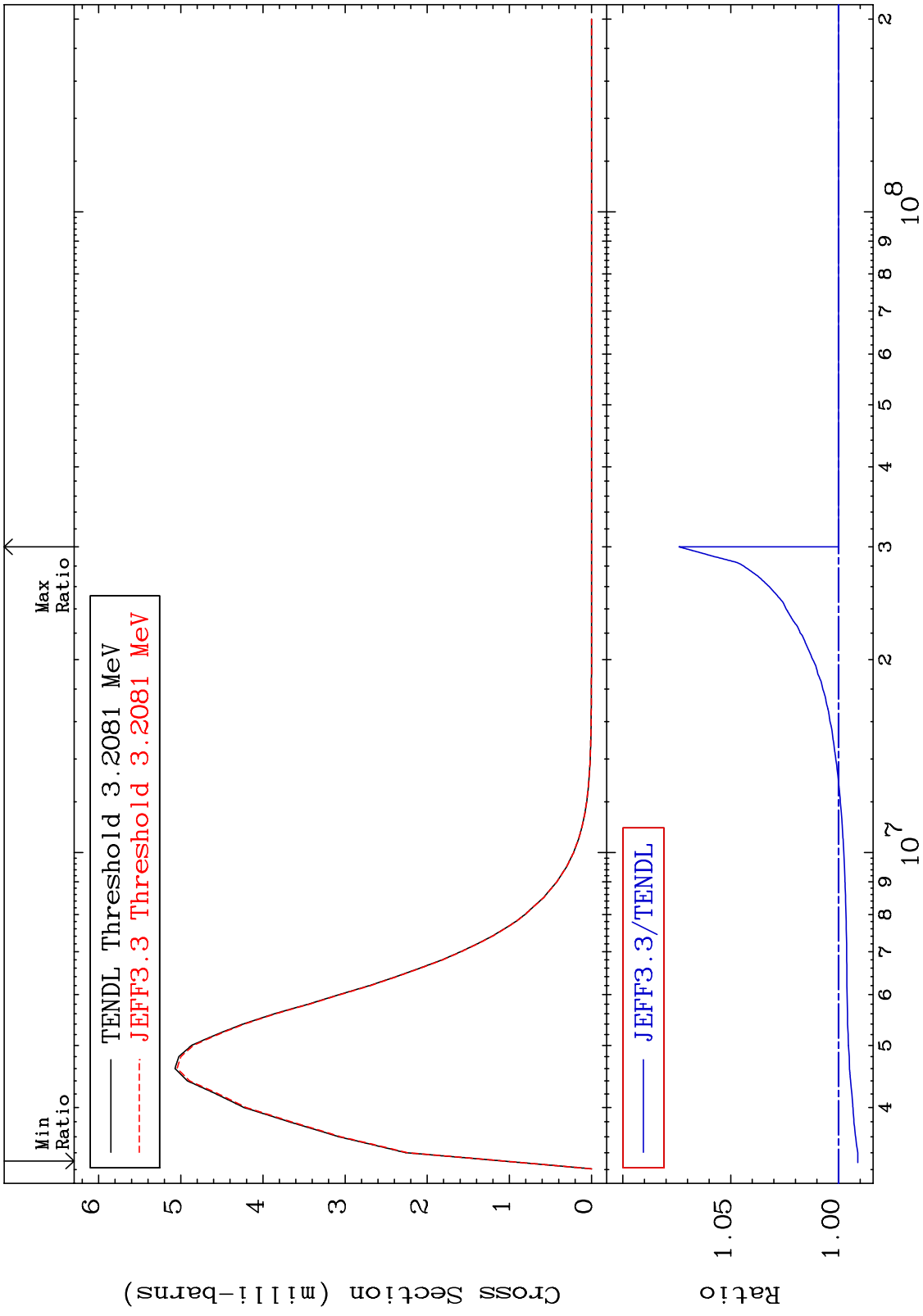
MAT 2028 MT= 58 (n, n') Level Cross Section -0.150 To 7.489 % 20-Ca-41



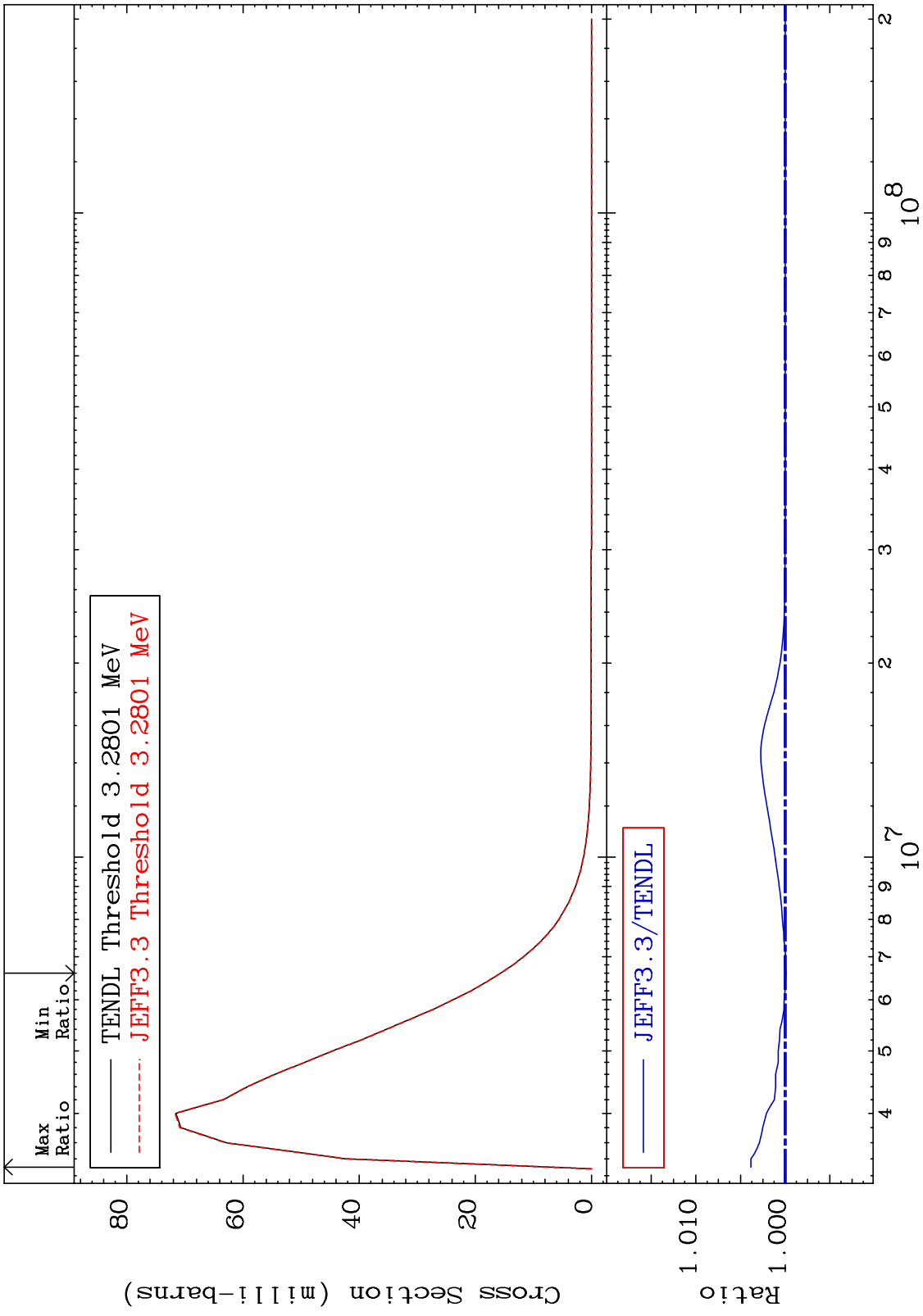
MAT 2028 MT= 59 (n, n') Level Cross Section -0.622 To 7.412 % 20-Ca-41



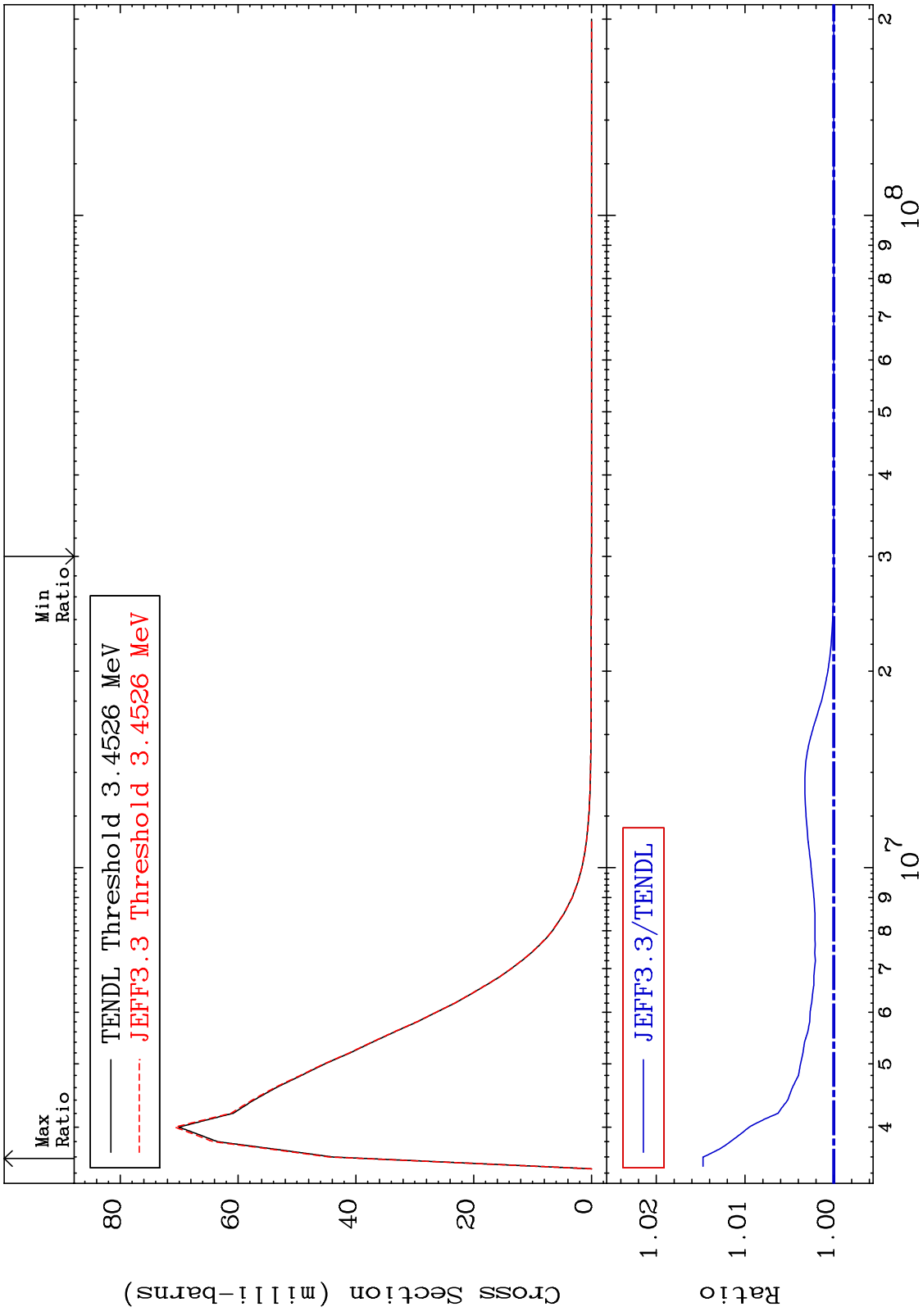
MAT 2028 MT= 60 (n,n') Level Cross Section -0.894 To 7.394 % 20-Ca-41



MAT 2028 MT= 61 (n,n') Level Cross Section -0.010 To 0.384 % 20-Ca-41

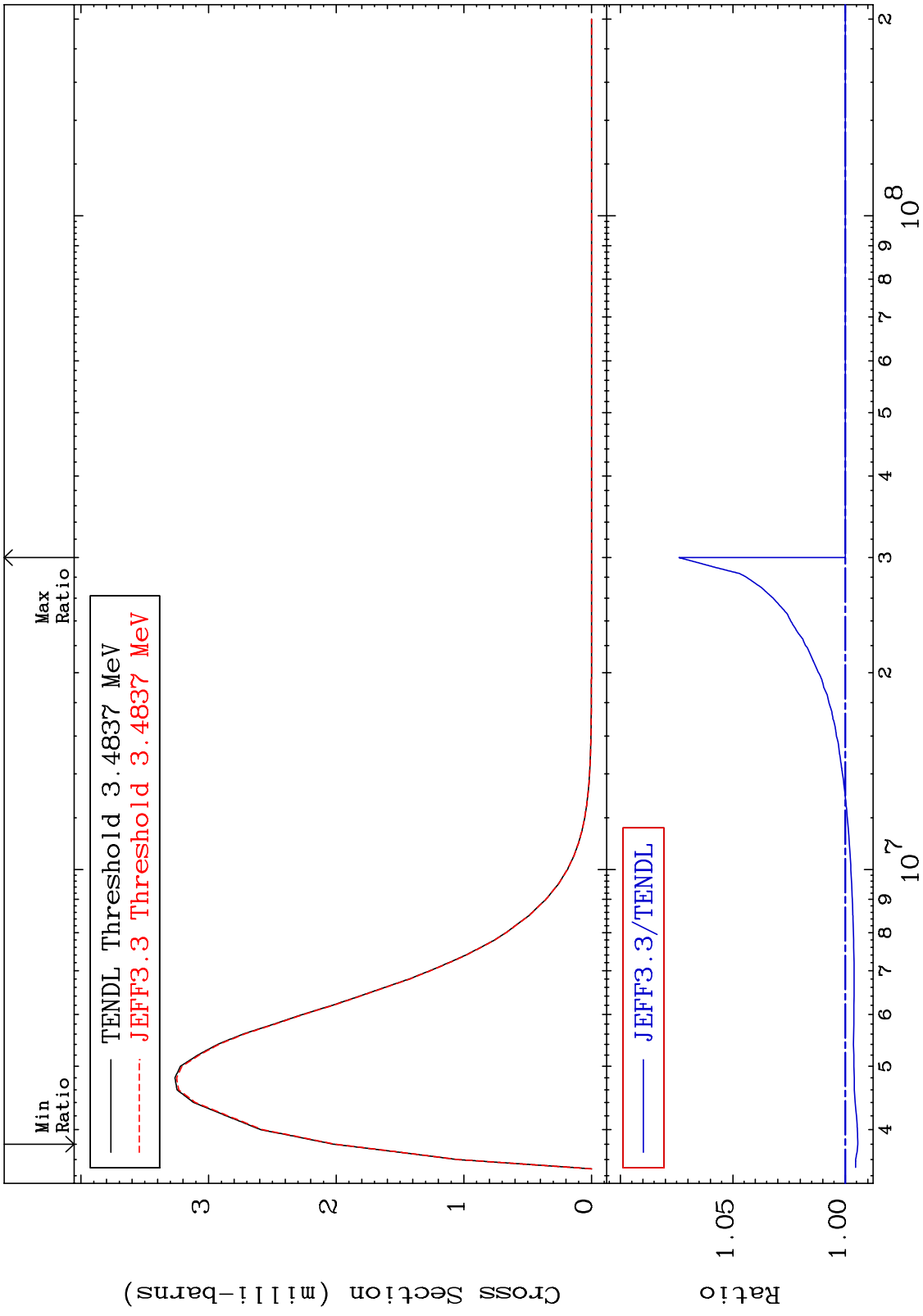


MAT 2028 MT= 62 (n,n') Level Cross Section 20-Ca-41 To 1.474 %

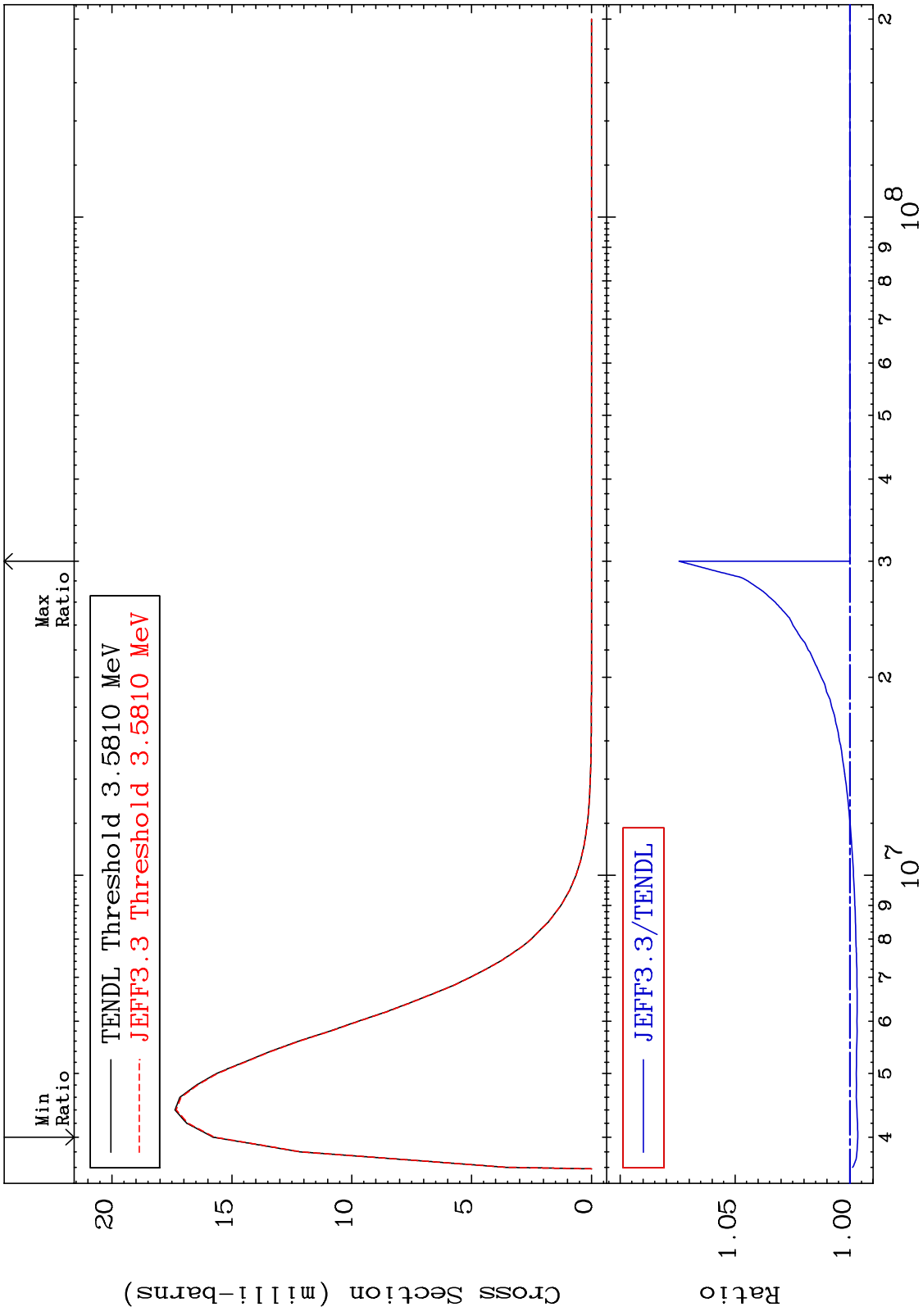


29 20-Ca-41 Incident Energy (eV)

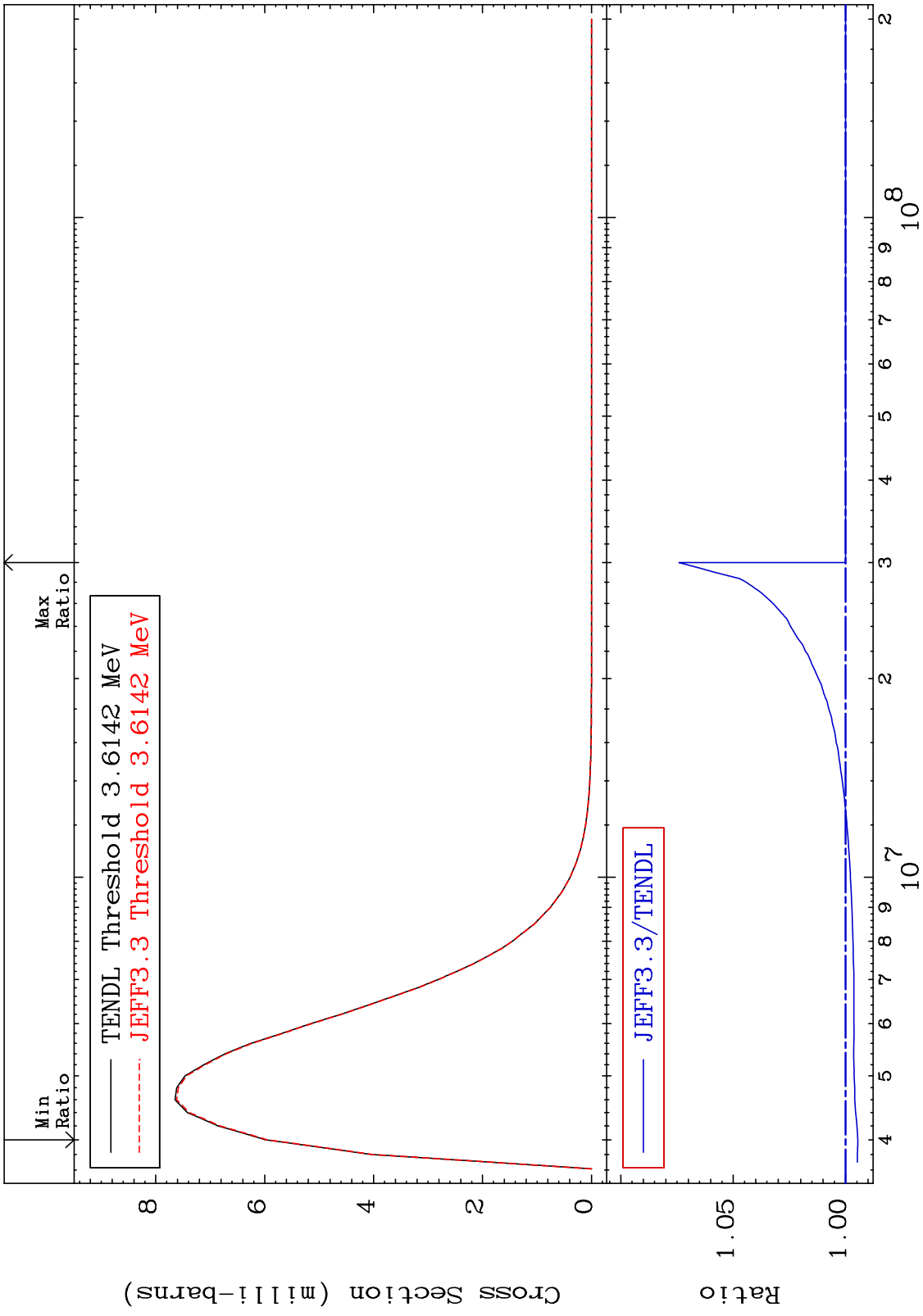
MAT 2028 MT= 63 (n,n') Level Cross Section -0.557 To 7.393 % 20-Ca-41



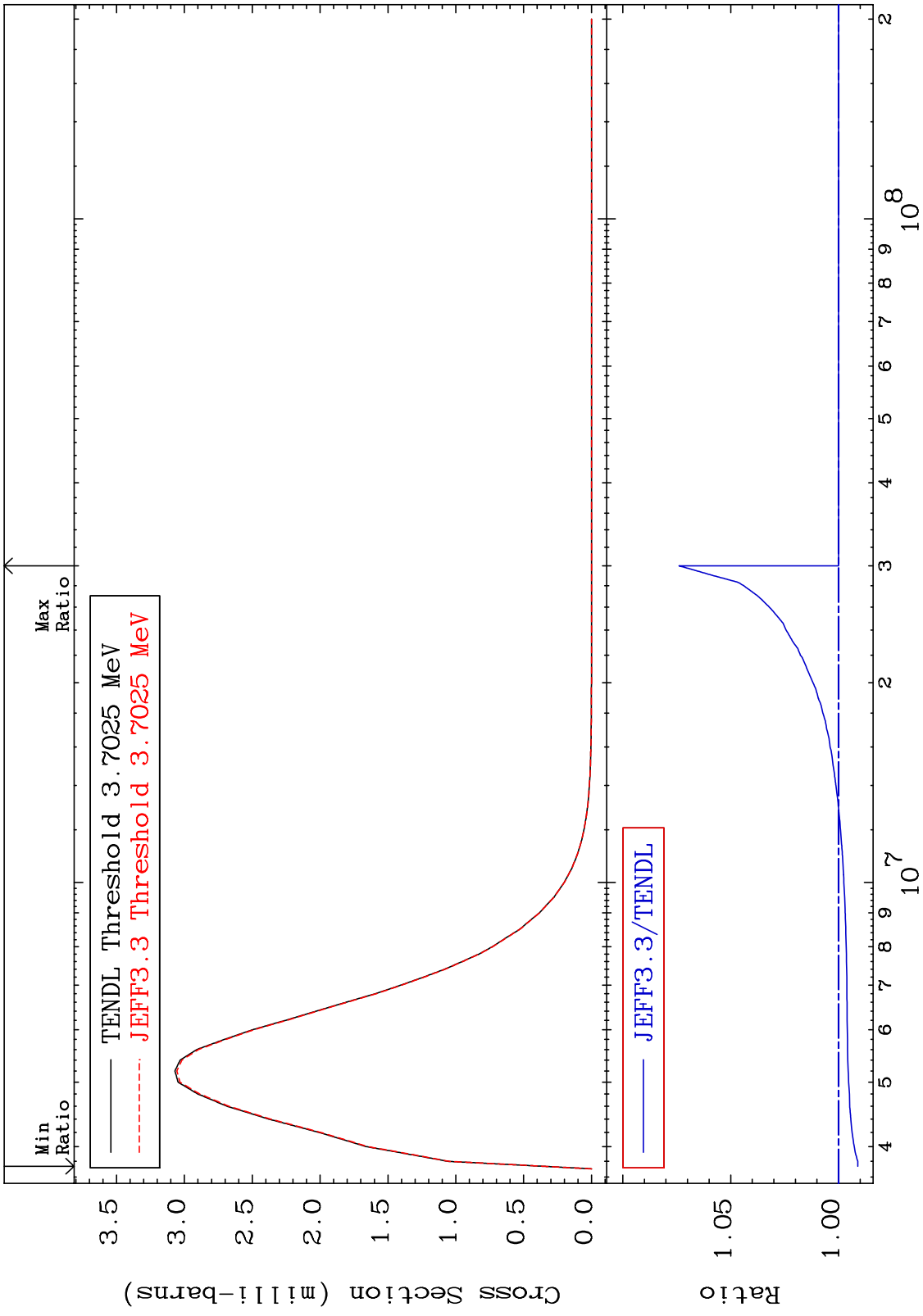
MAT 2028 MT= 64 (n,n') Level Cross Section -0.341 To 7.441 % 20-Ca-41



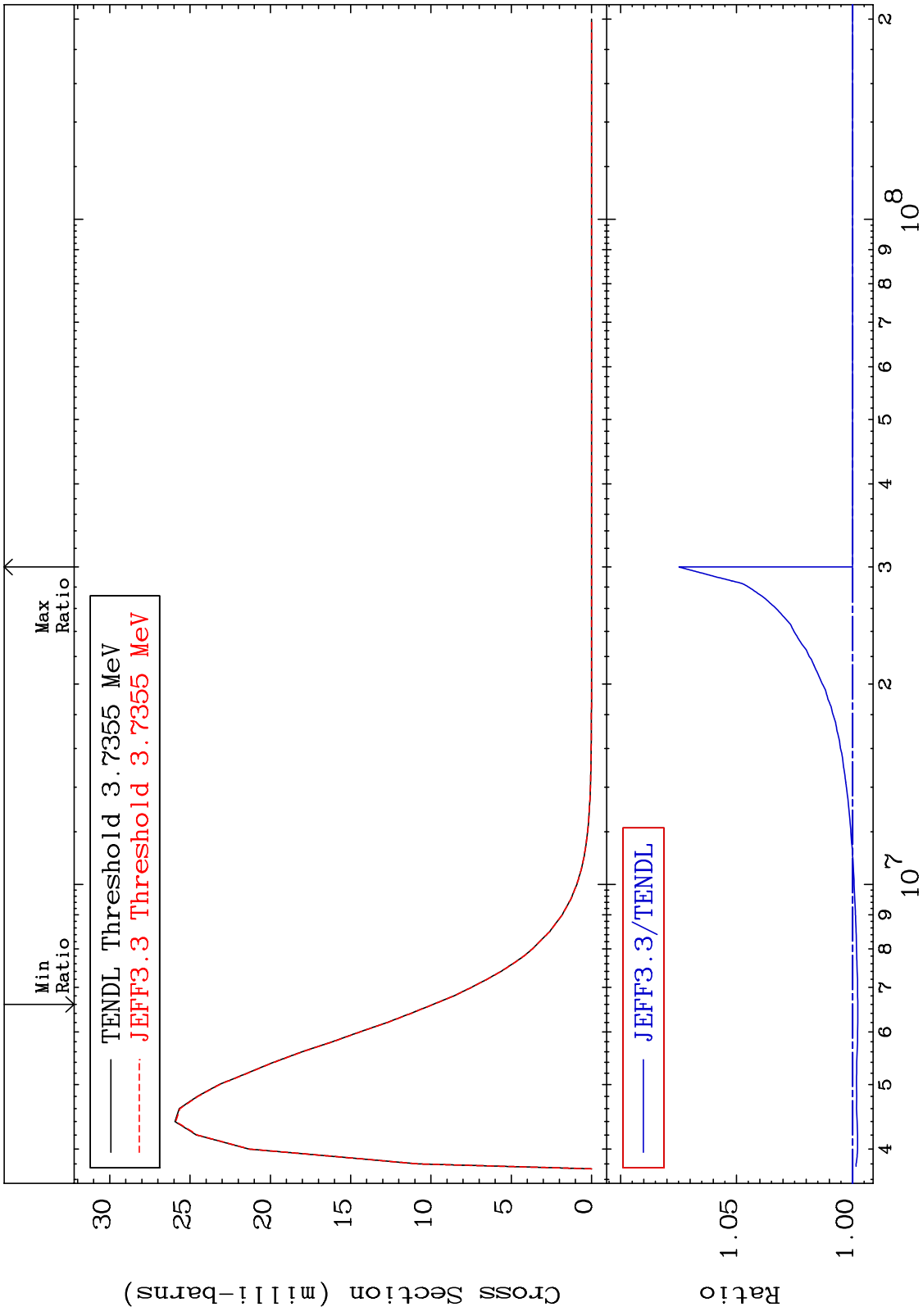
MAT 2028 MT= 65 (n,n') Level Cross Section -0.544 To 7.411 % 20-Ca-41



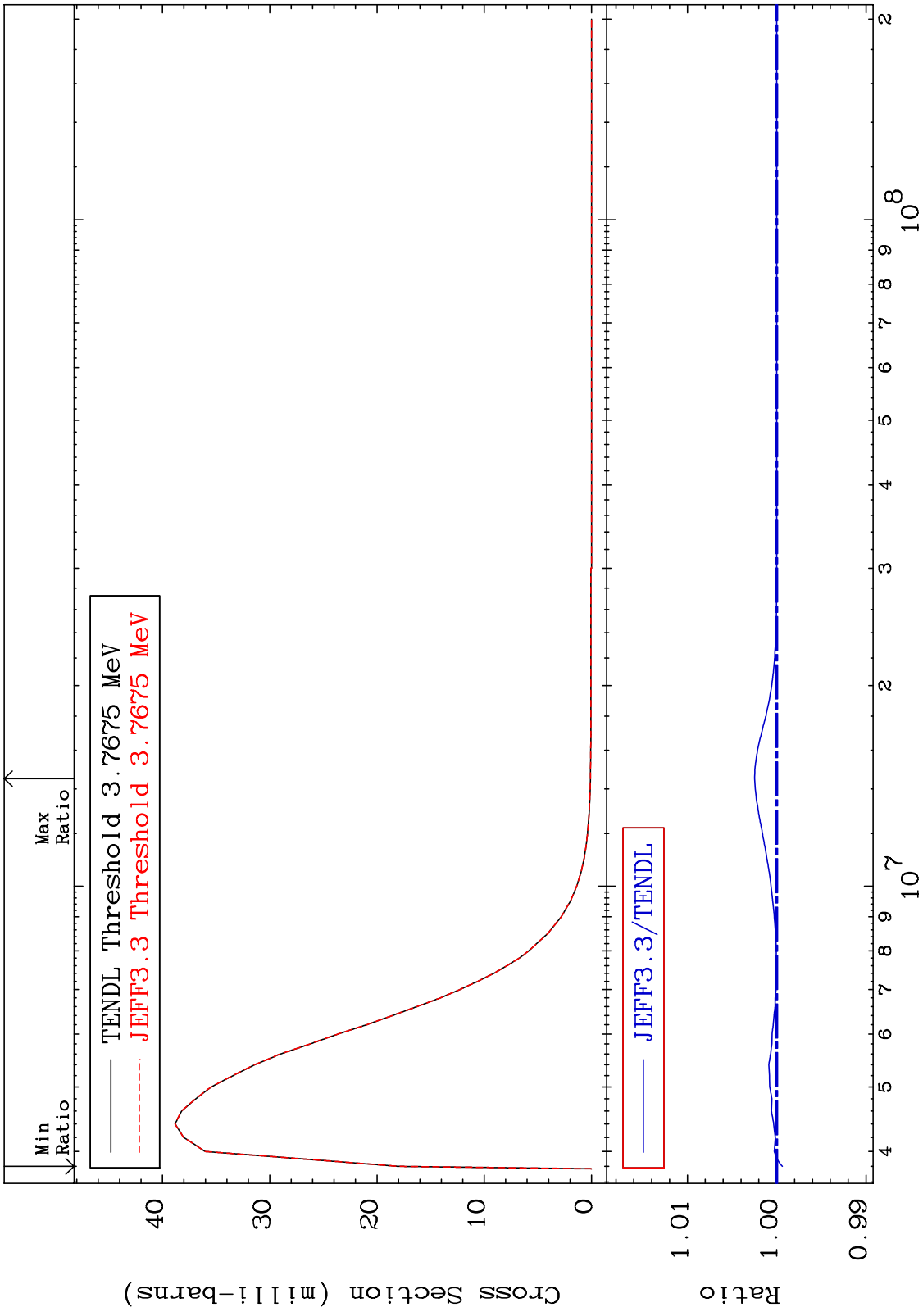
MAT 2028 MT= 66 (n,n') Level Cross Section -0.892 To 7.393 % 20-Ca-41



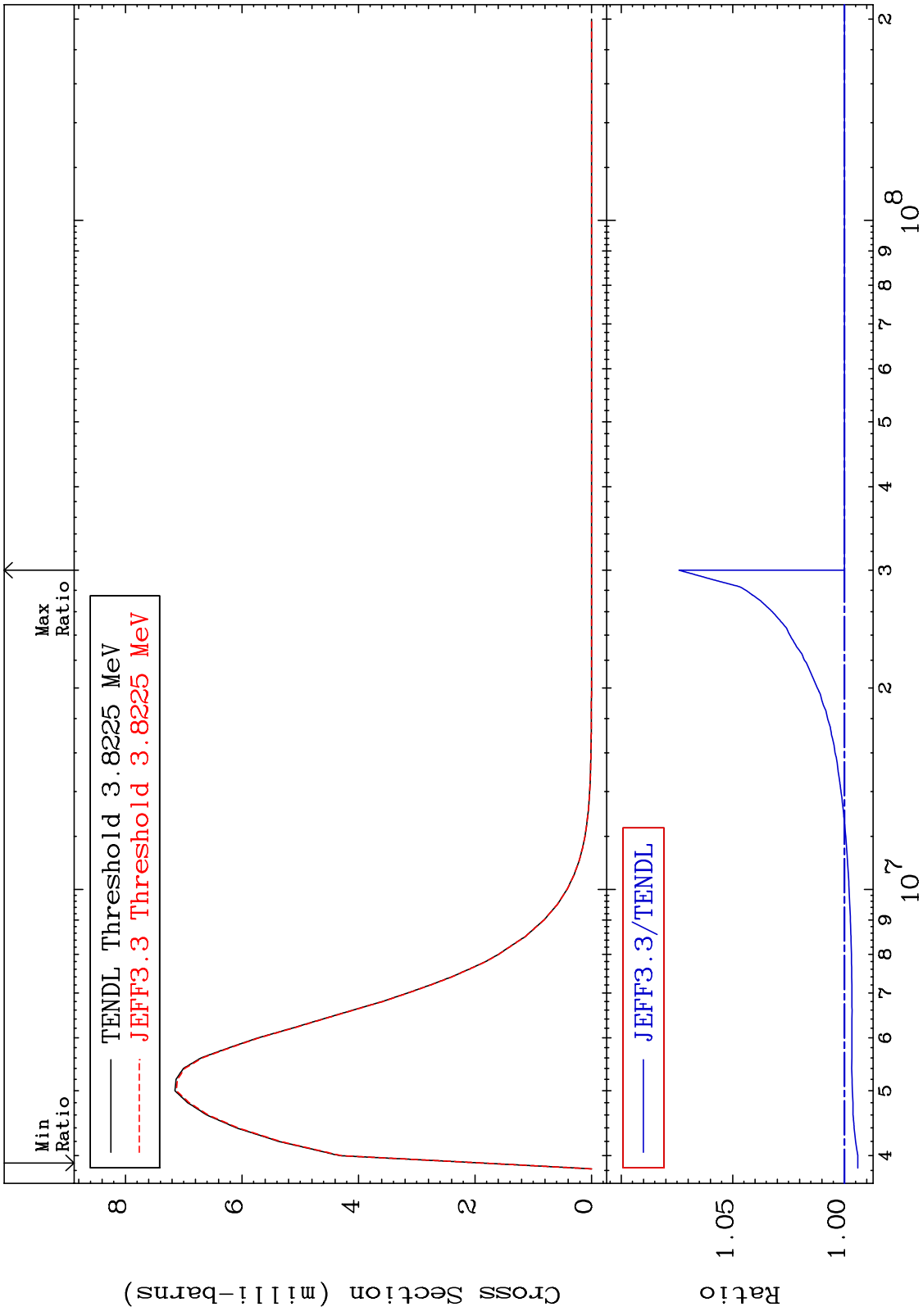
MAT 2028 MT= 67 (n,n') Level Cross Section -0.227 To 7.479 % 20-Ca-41



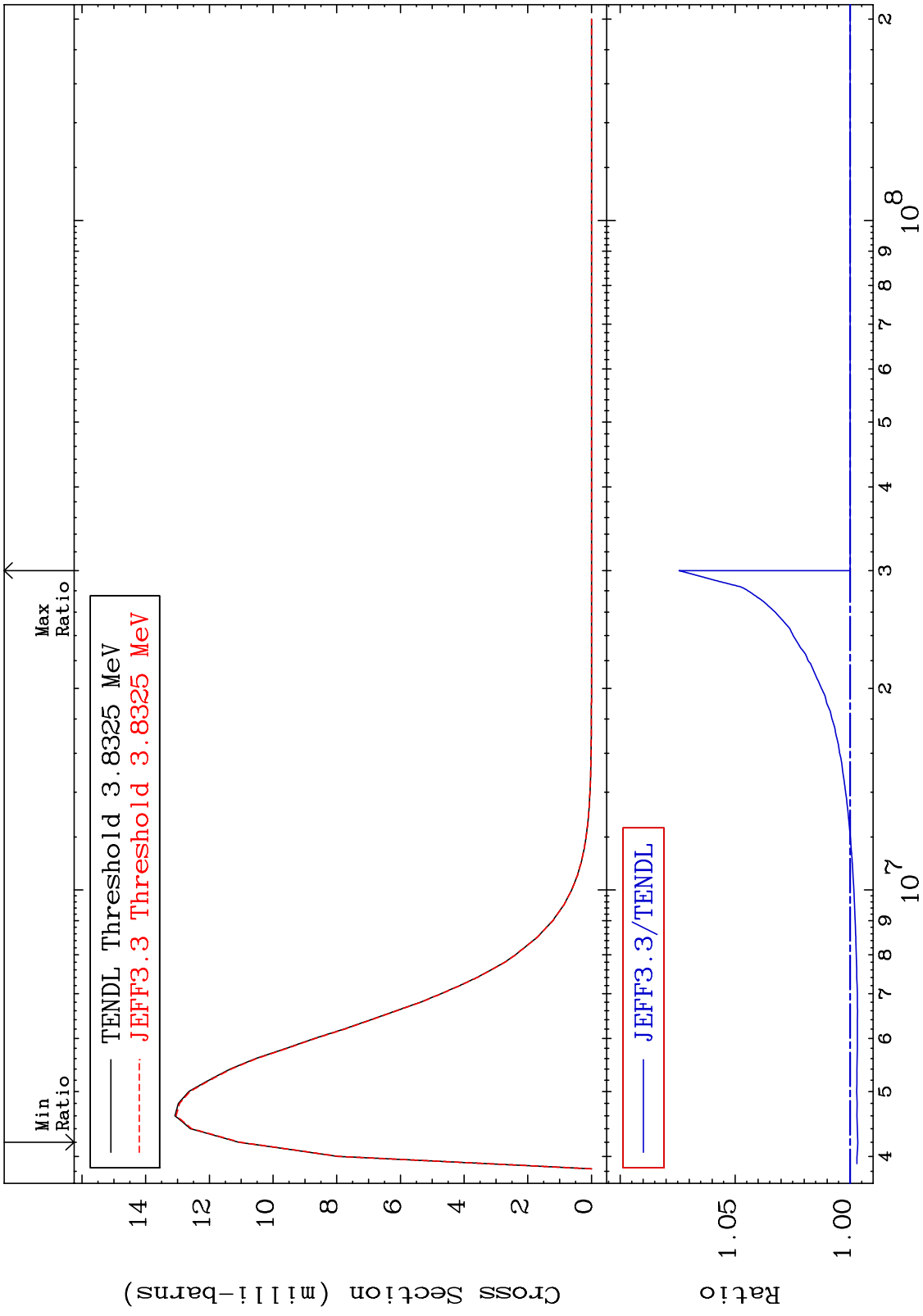
MAT 2028 MT= 68 (n,n') Level Cross Section 20-Ca-41  
 -0.063 To 0.249 %



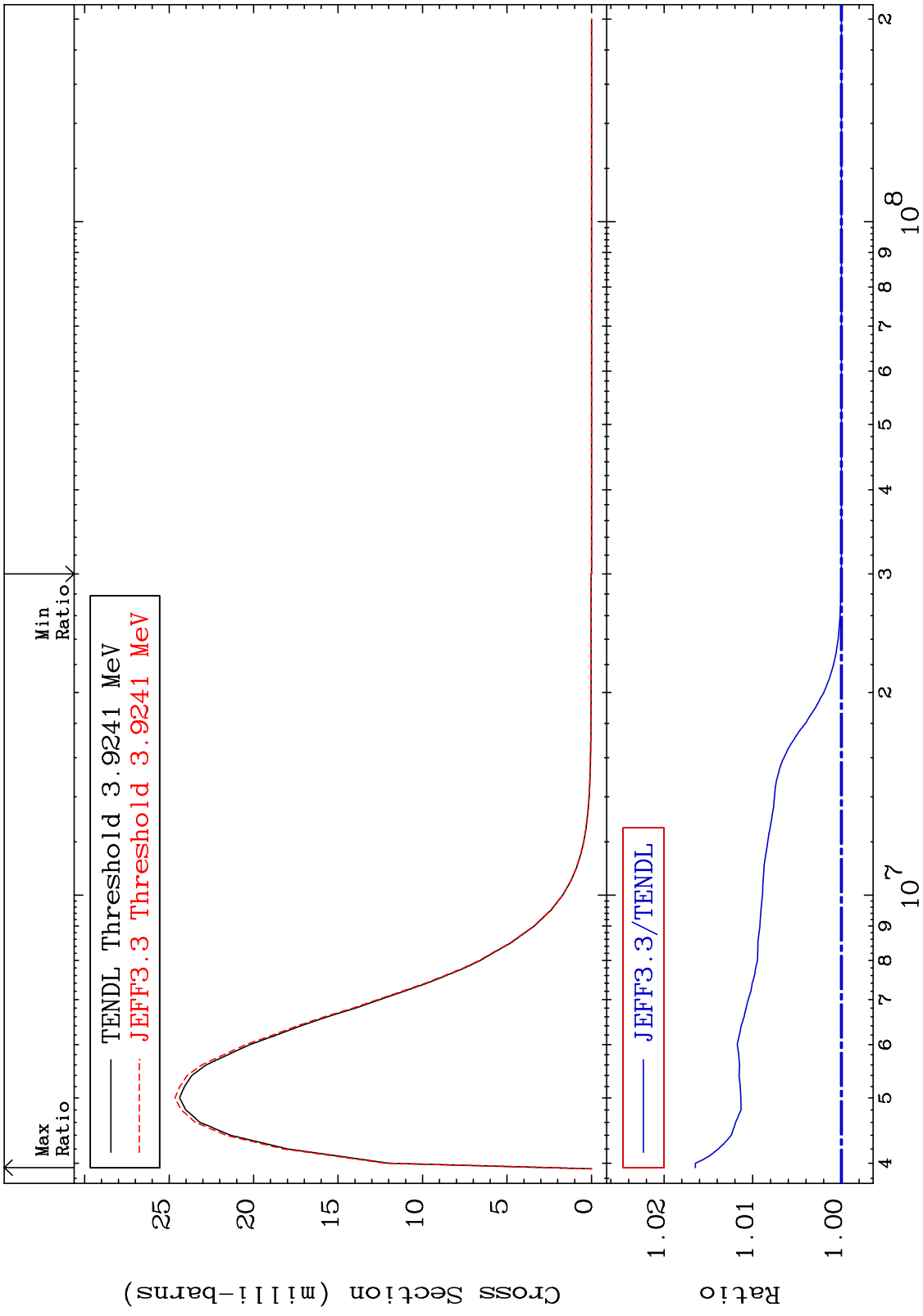
MAT 2028 MT= 69 (n,n') Level Cross Section -0.604 To 7.410 % 20-Ca-41



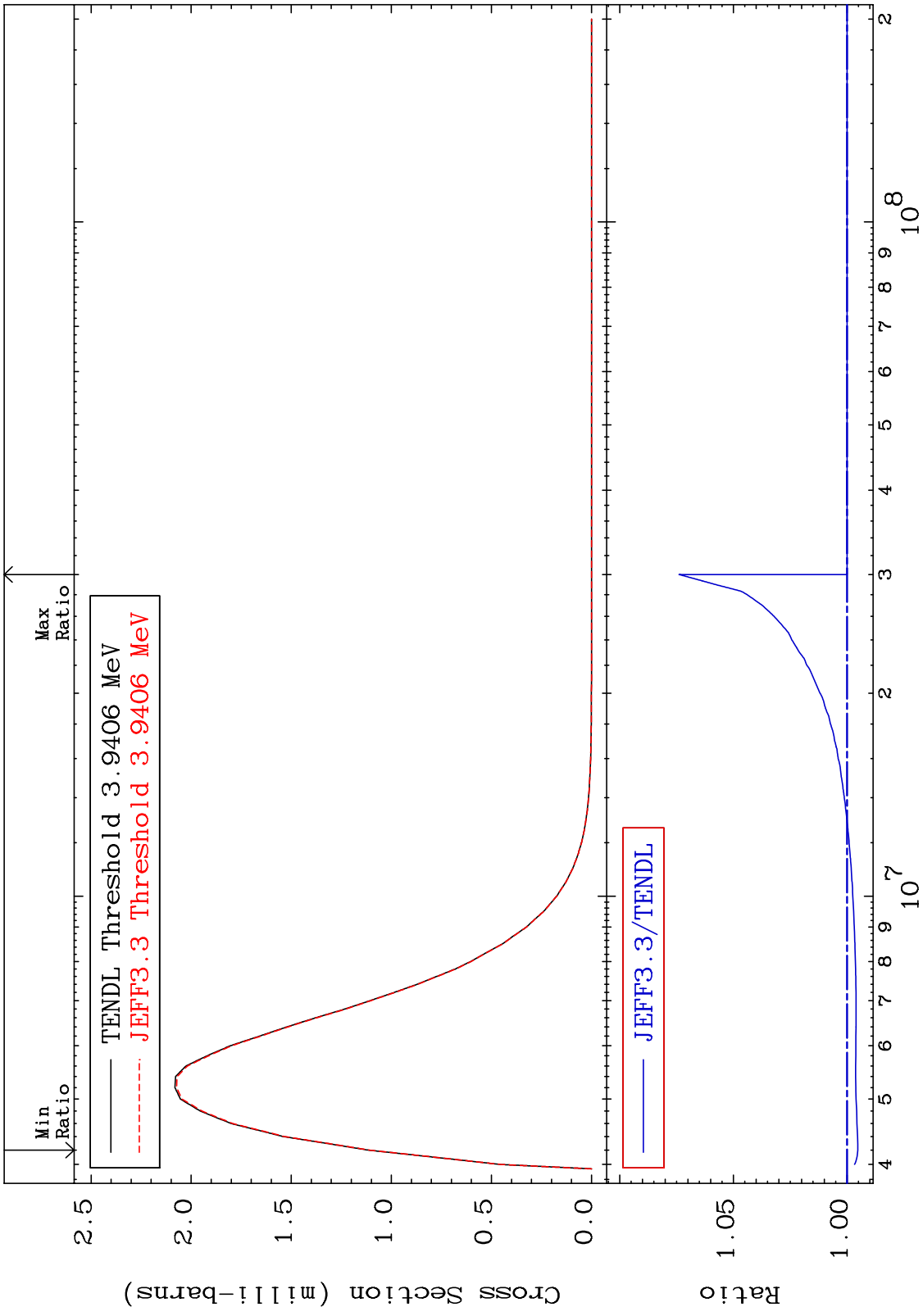
MAT 2028 MT= 70 (n,n') Level Cross Section -0.334 To 7.440 % 20-Ca-41



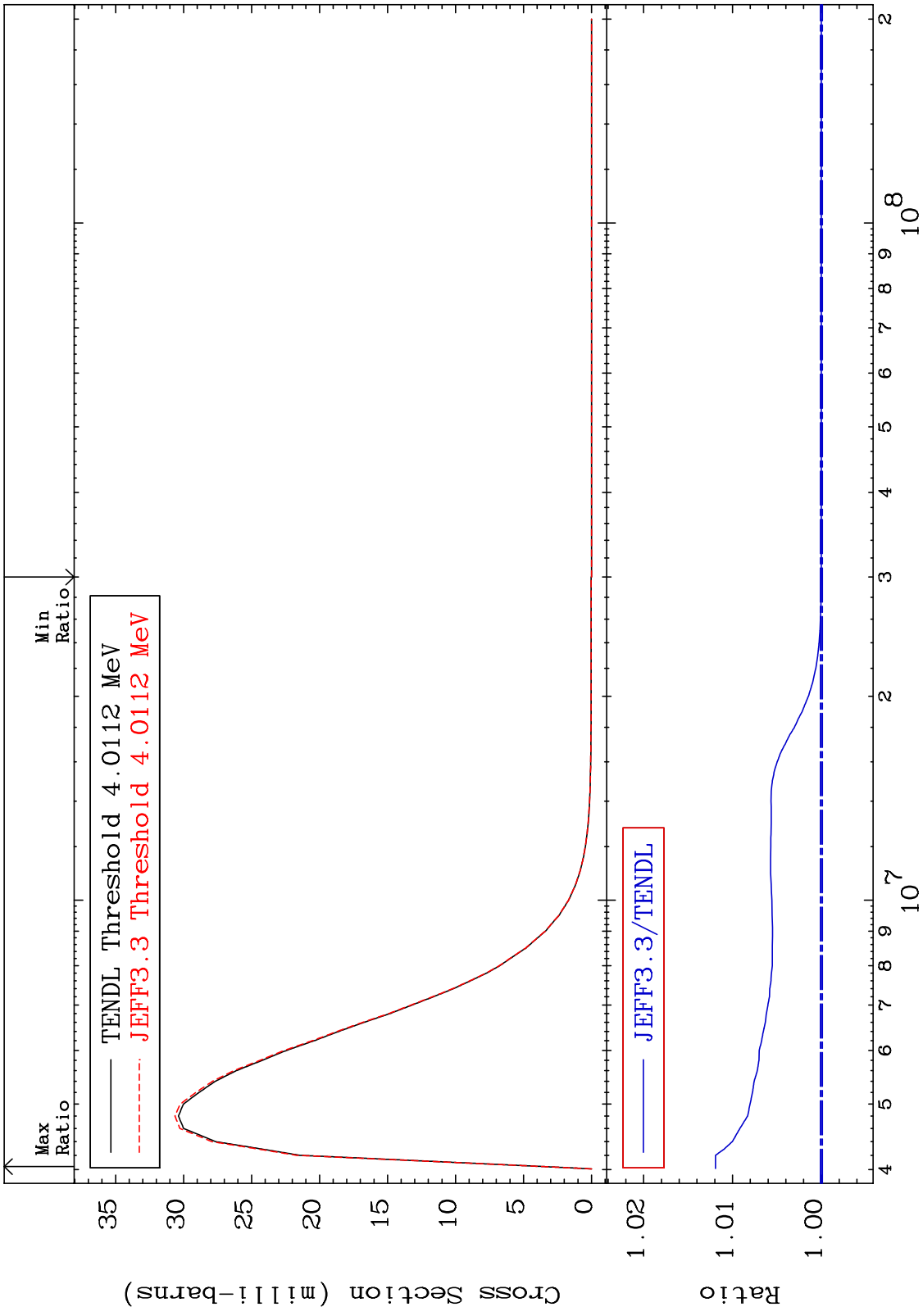
MAT 2028 MT= 71 (n,n') Level Cross Section 20-Ca-41 To 1.646 %



MAT 2028 MT= 72 (n,n') Level Cross Section -0.474 To 7.392 % 20-Ca-41

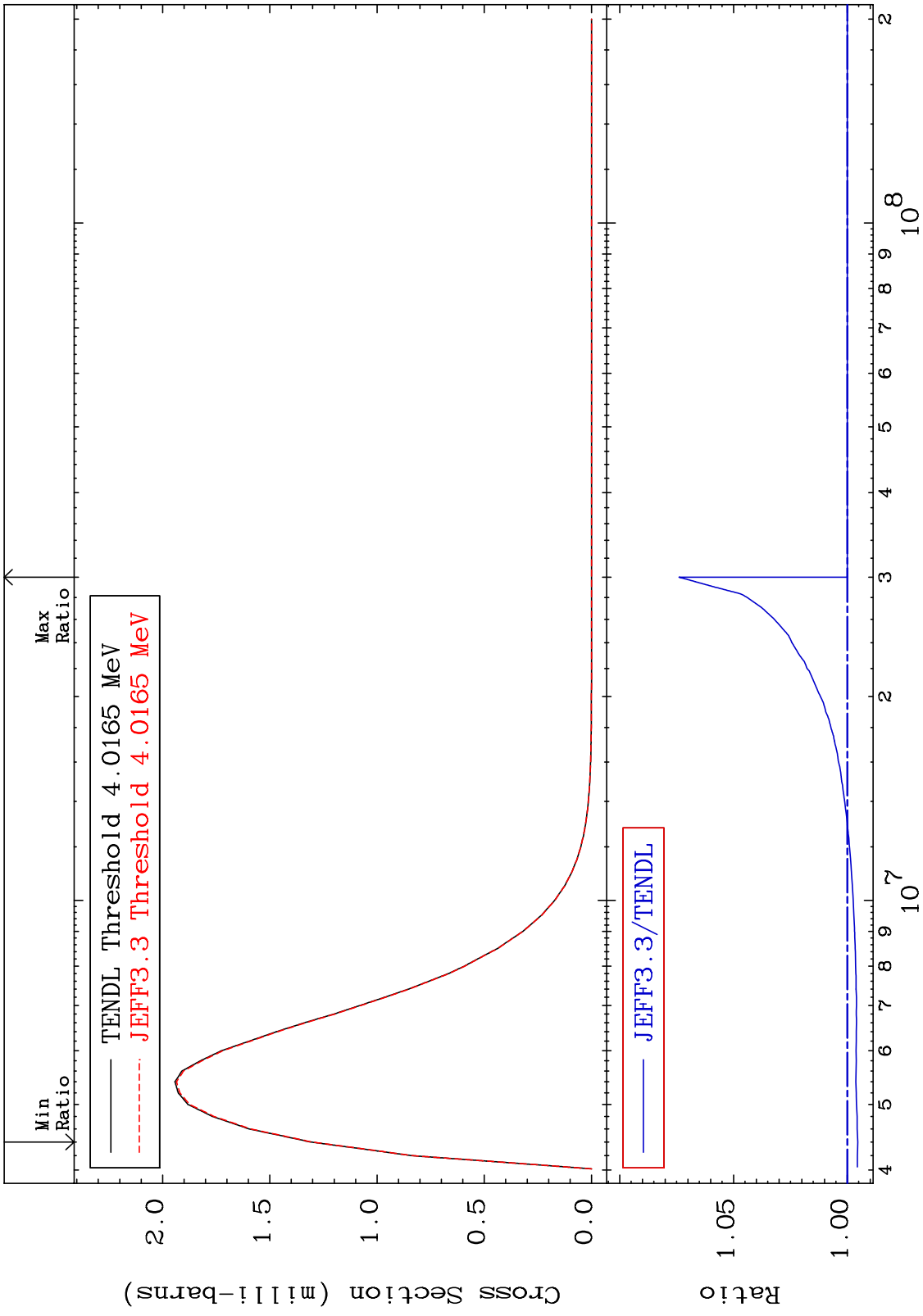


MAT 2028 MT= 73 (n,n') Level Cross Section 20-Ca-41 To 1.192 %

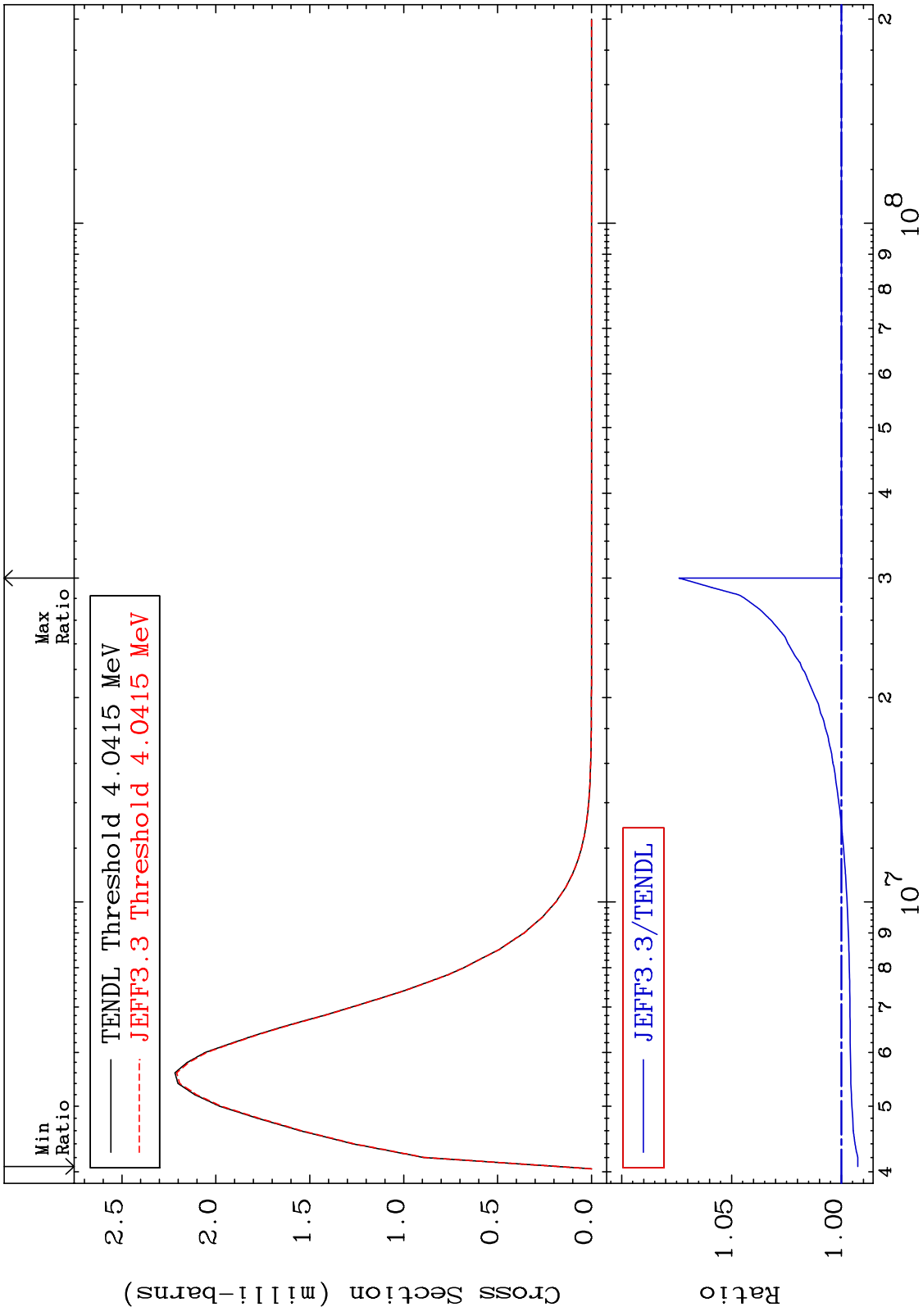


40 20-Ca-41

MAT 2028 MT= 74 (n,n') Level Cross Section -0.460 To 7.392 % 20-Ca-41

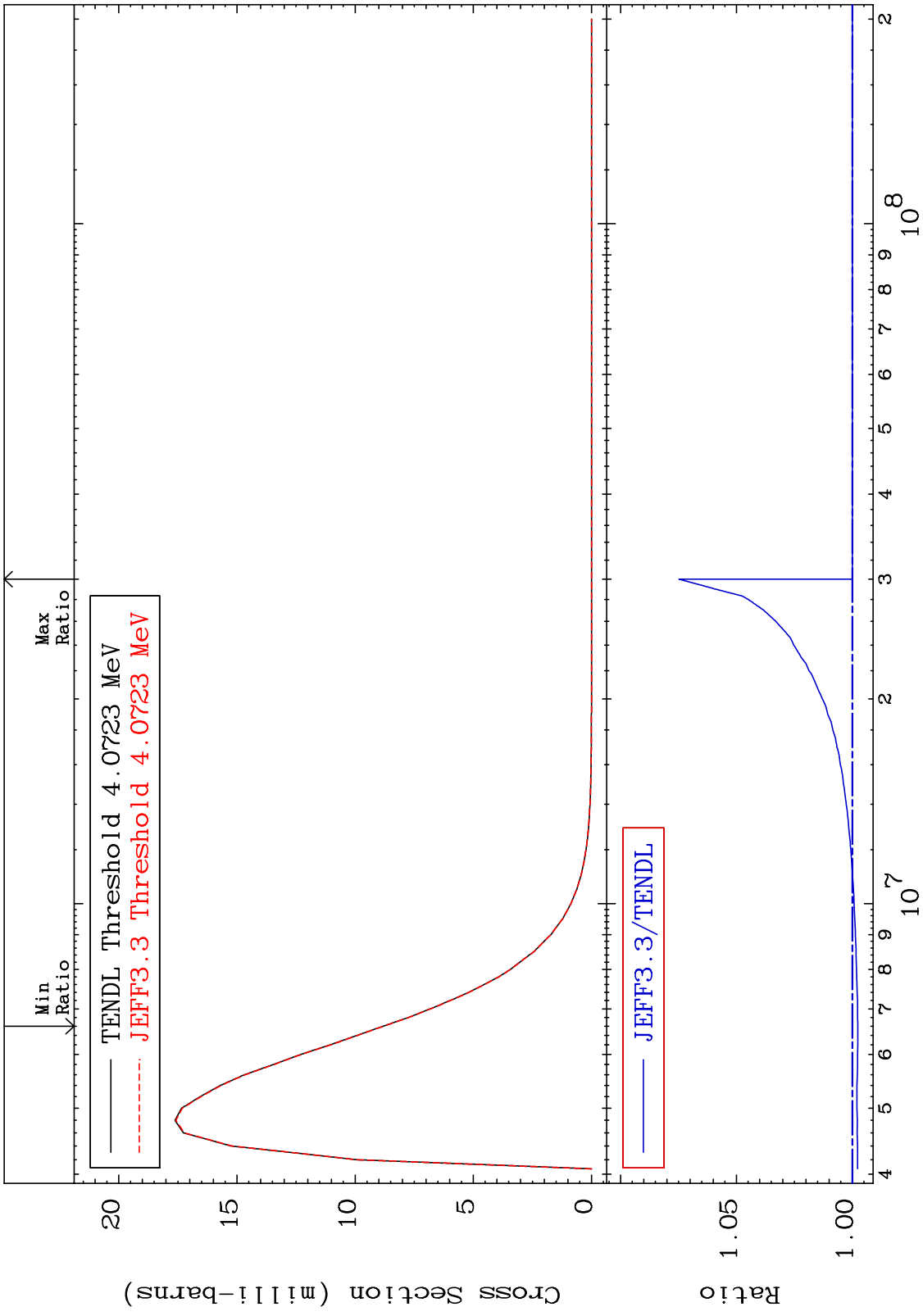


MAT 2028 MT= 75 (n,n') Level Cross Section -0.744 To 7.391 % 20-Ca-41

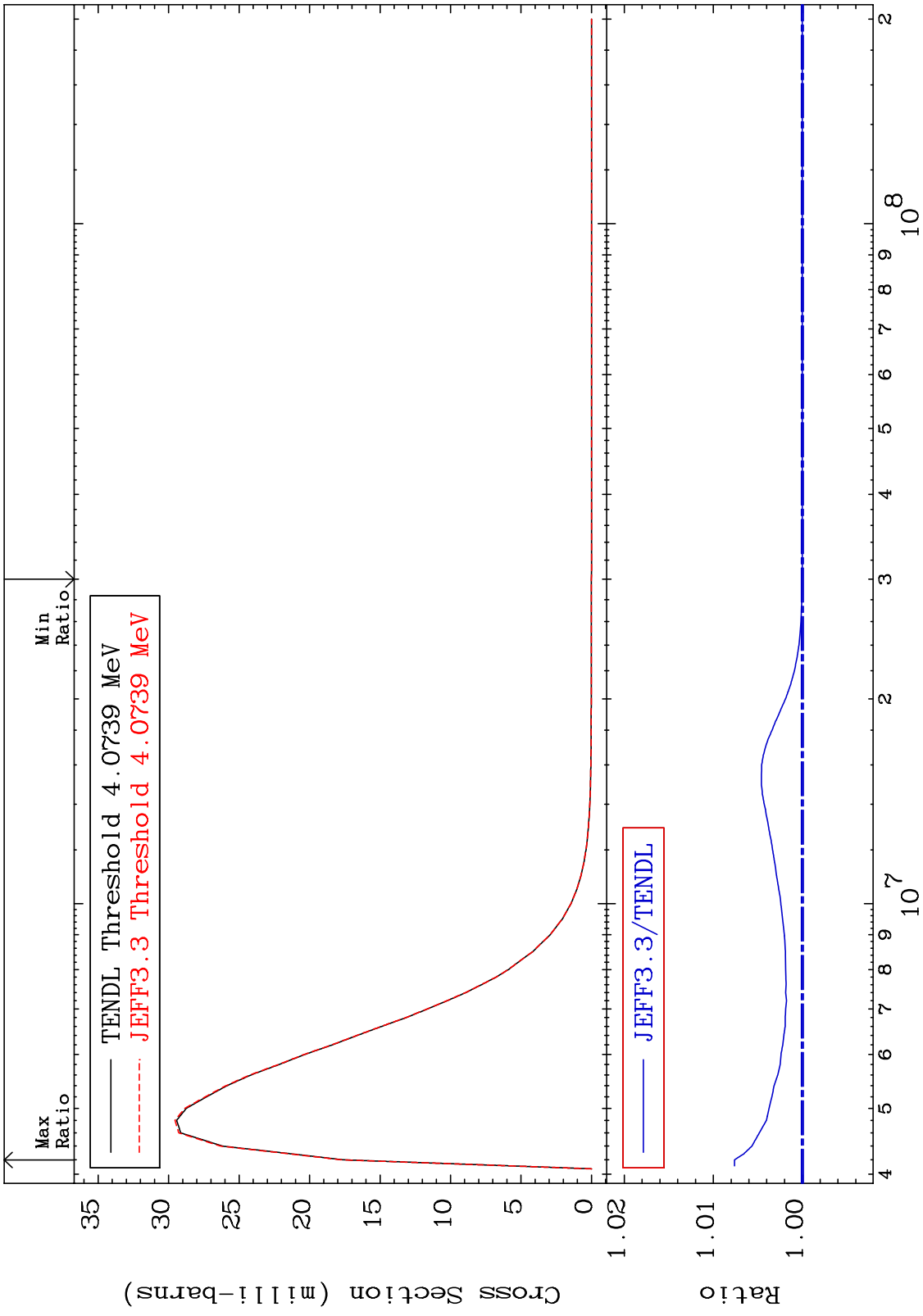


42 Incident Energy (eV) 20-Ca-41

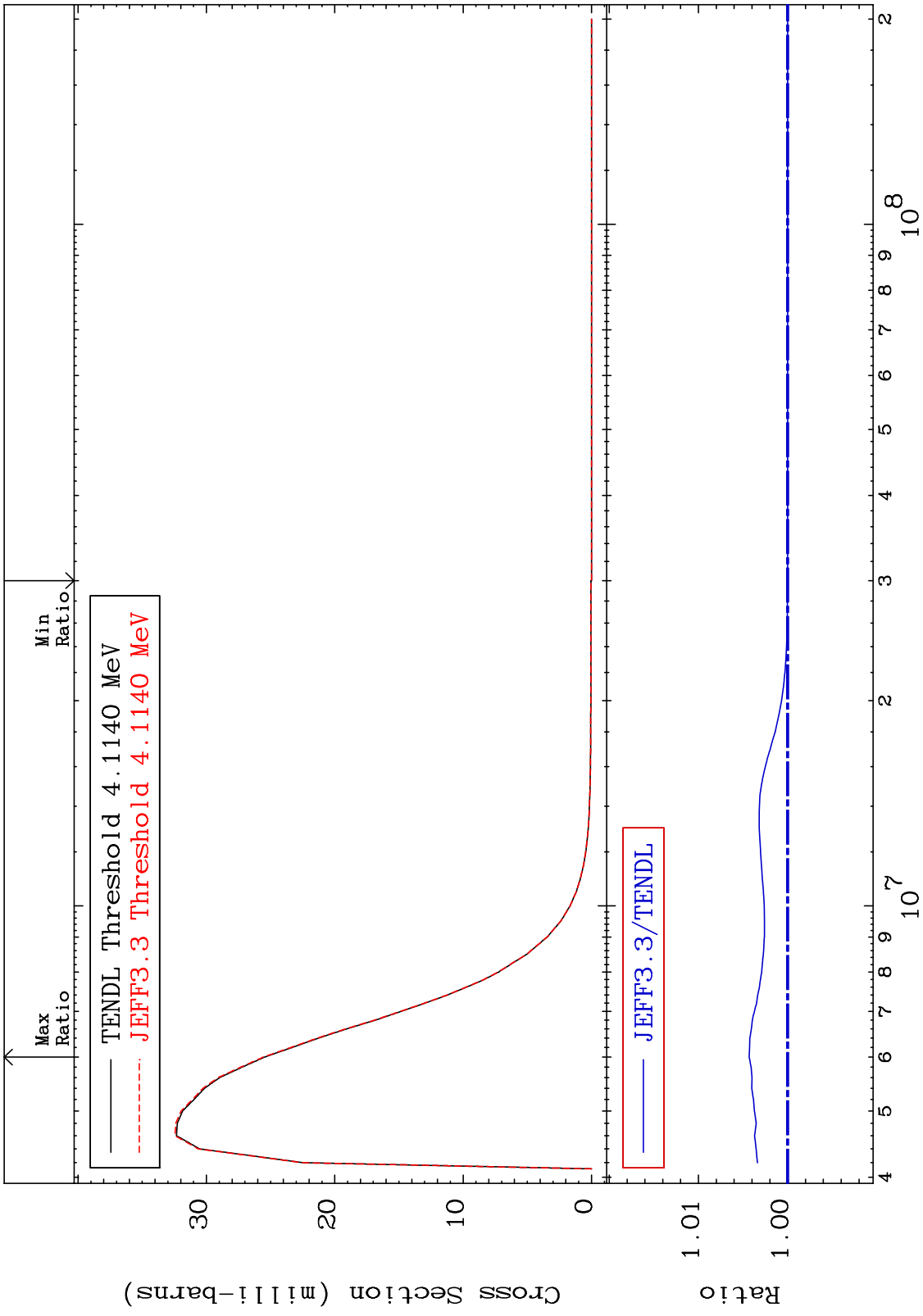
MAT 2028 MT= 76 (n,n') Level Cross Section -0.237 To 7.478 % 20-Ca-41



MAT 2028 MT= 77 (n,n') Level Cross Section 20-Ca-41 To 0.762 %

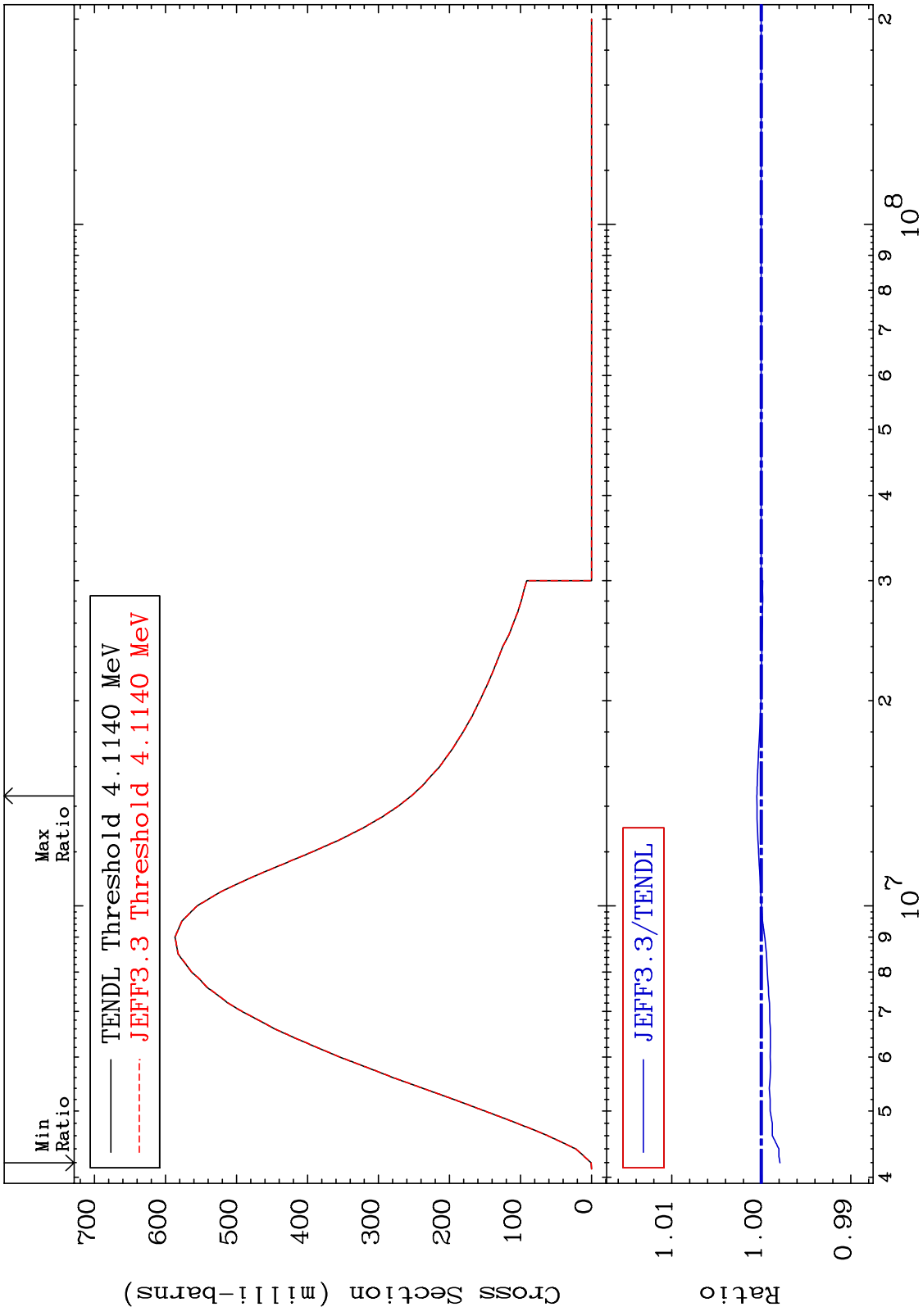


MAT 2028 MT= 78 (n,n') Level Cross Section 20-Ca-41 To 0.431 %



45 20-Ca-41

MAT 2028 (n,n') Continuum Cross Section 20-Ca-41 -0.209 To 0.049 %



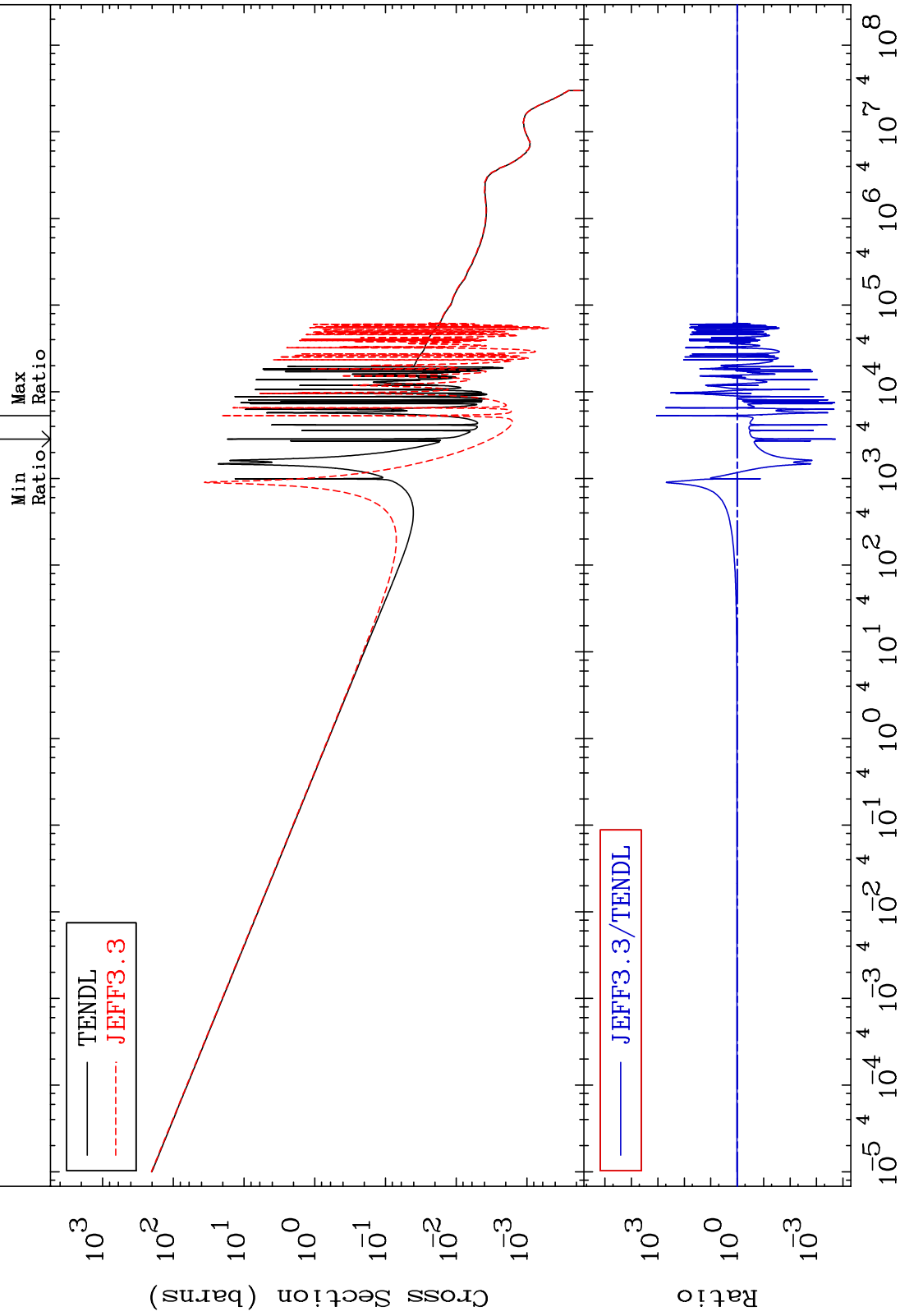
MAT 2028

(n,  $\gamma$ )

20-Ca-41

-99.98 To 9999. %

Cross Section



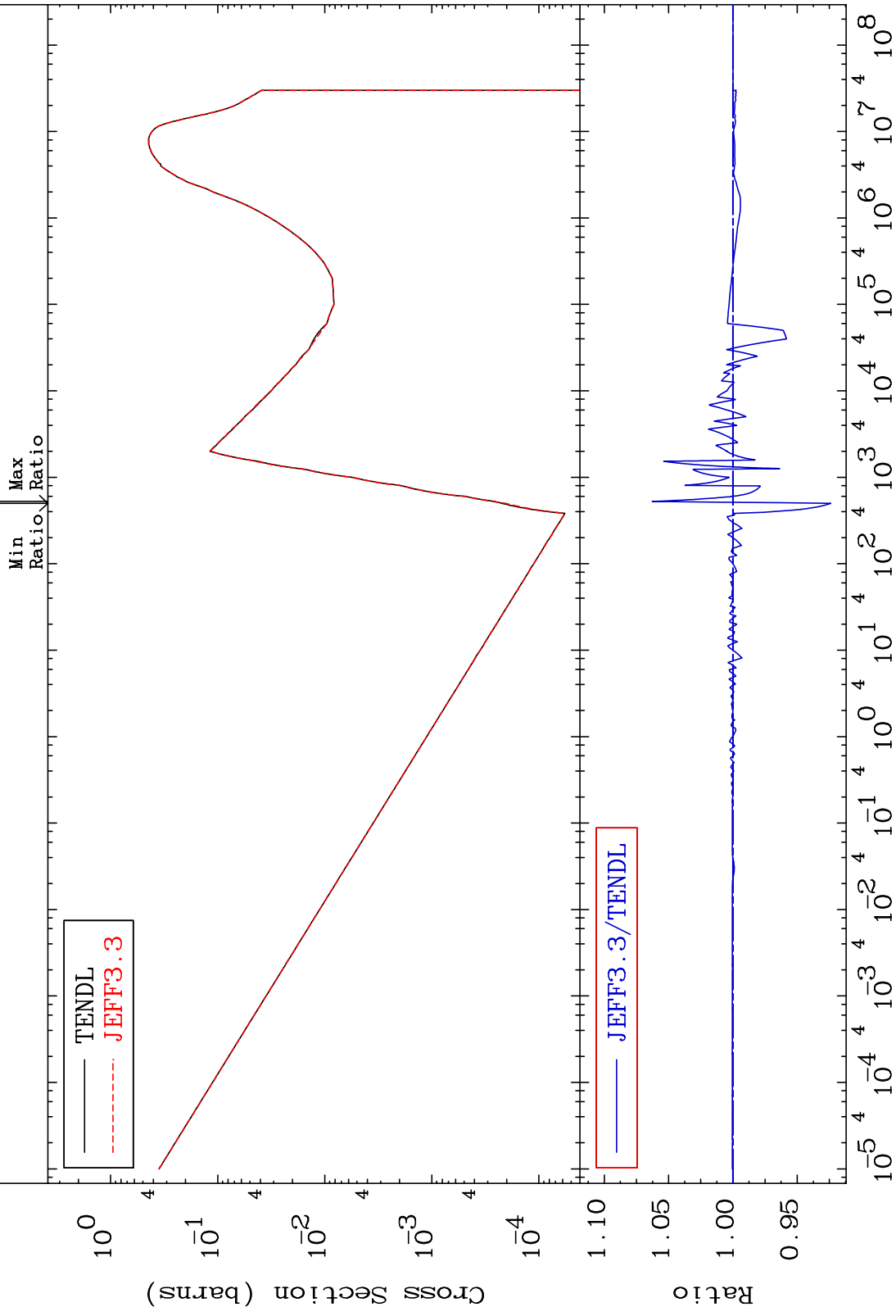
MAT 2028

(n,p)

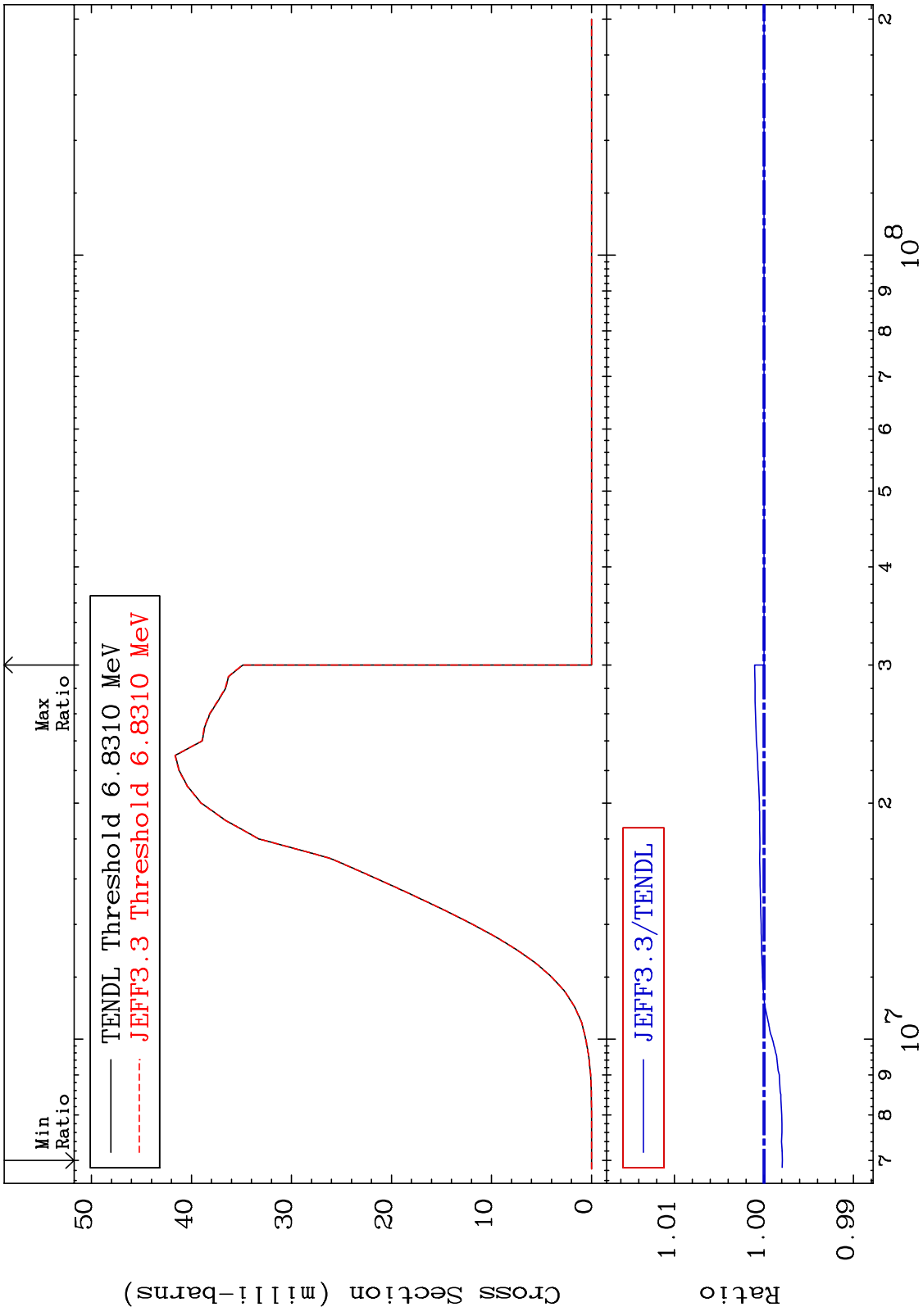
20-Ca-41

-7.617 To 6.271 %

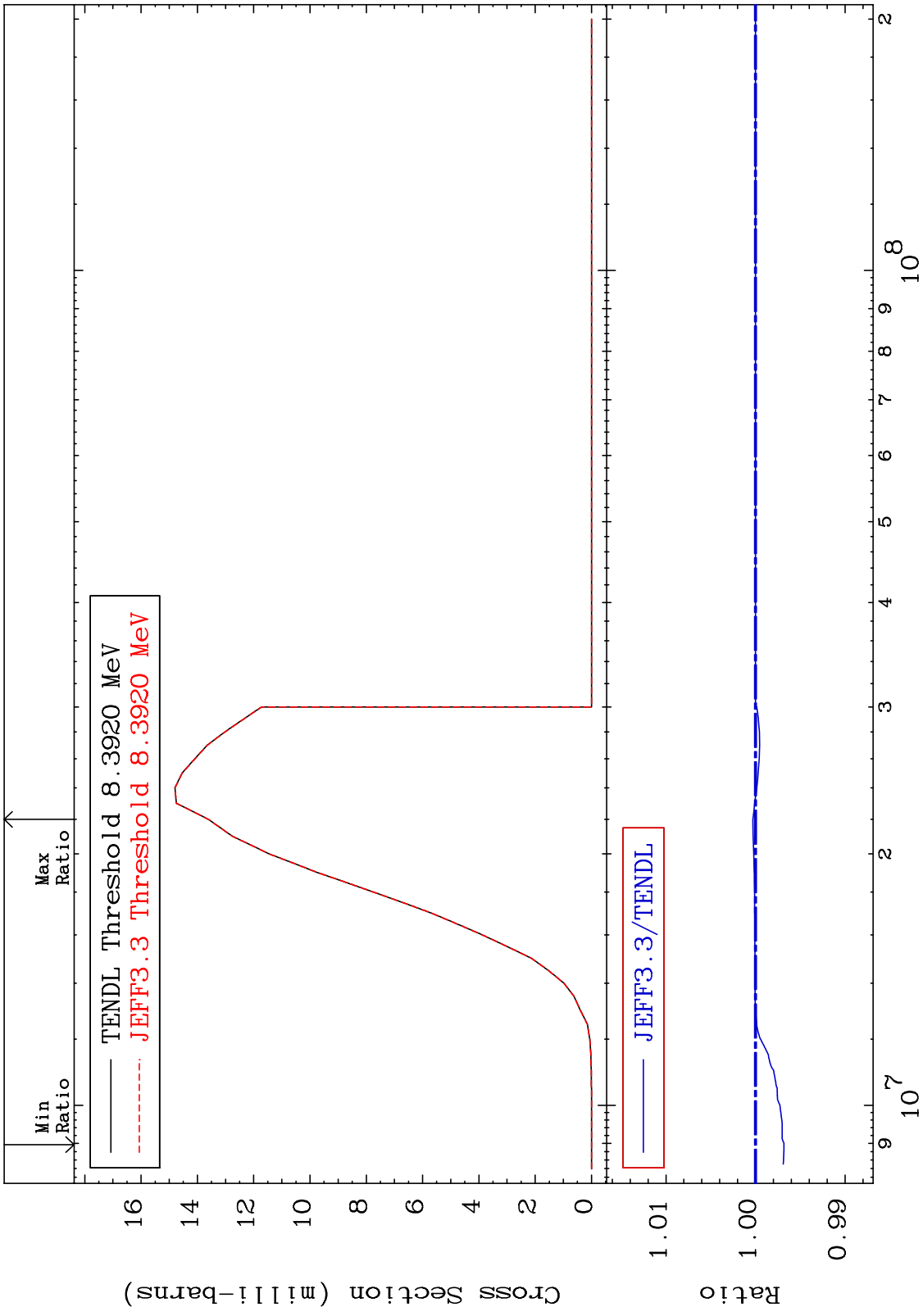
Cross Section



MAT 2028 (n,d) 20-Ca-41 -0.205 To 0.104 %

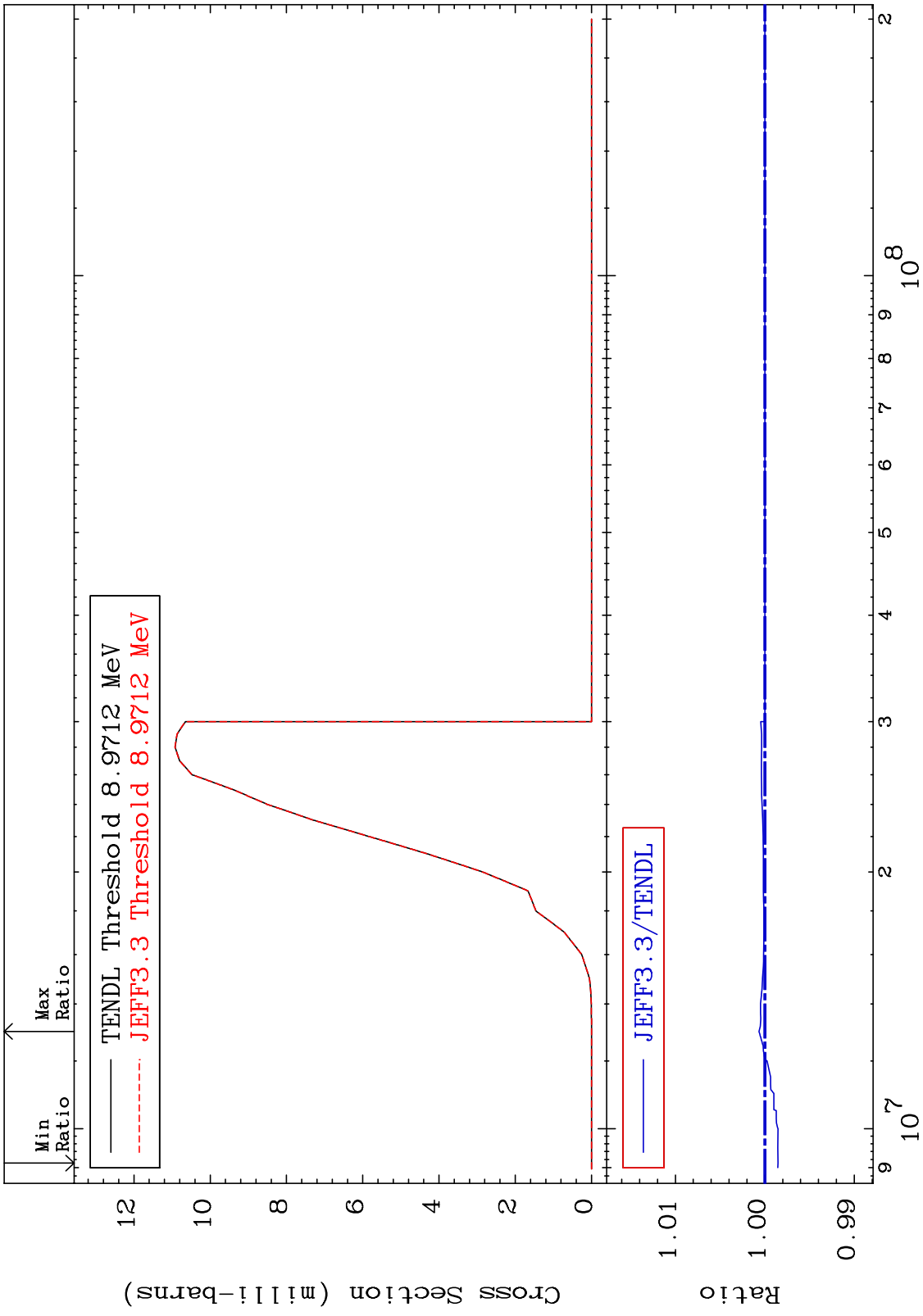


MAT 2028 (n,t) 20-Ca-41  
Cross Section -0.318 To 0.029 %



50 20-Ca-41

MAT 2028 (n, He-3) 20-Ca-41  
 Cross Section -0.146 To 0.065 %



51 Incident Energy (eV) 20-Ca-41

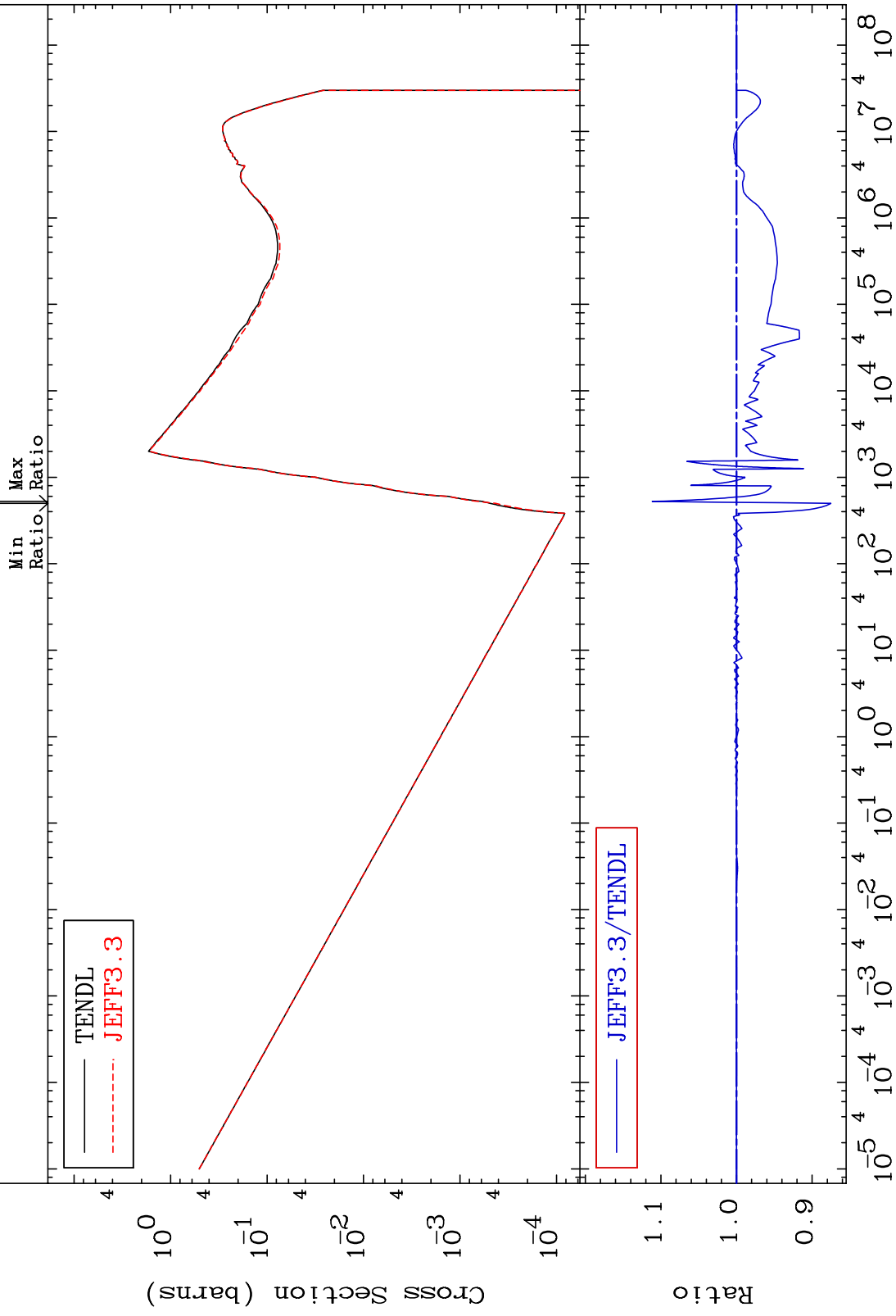
MAT 2028

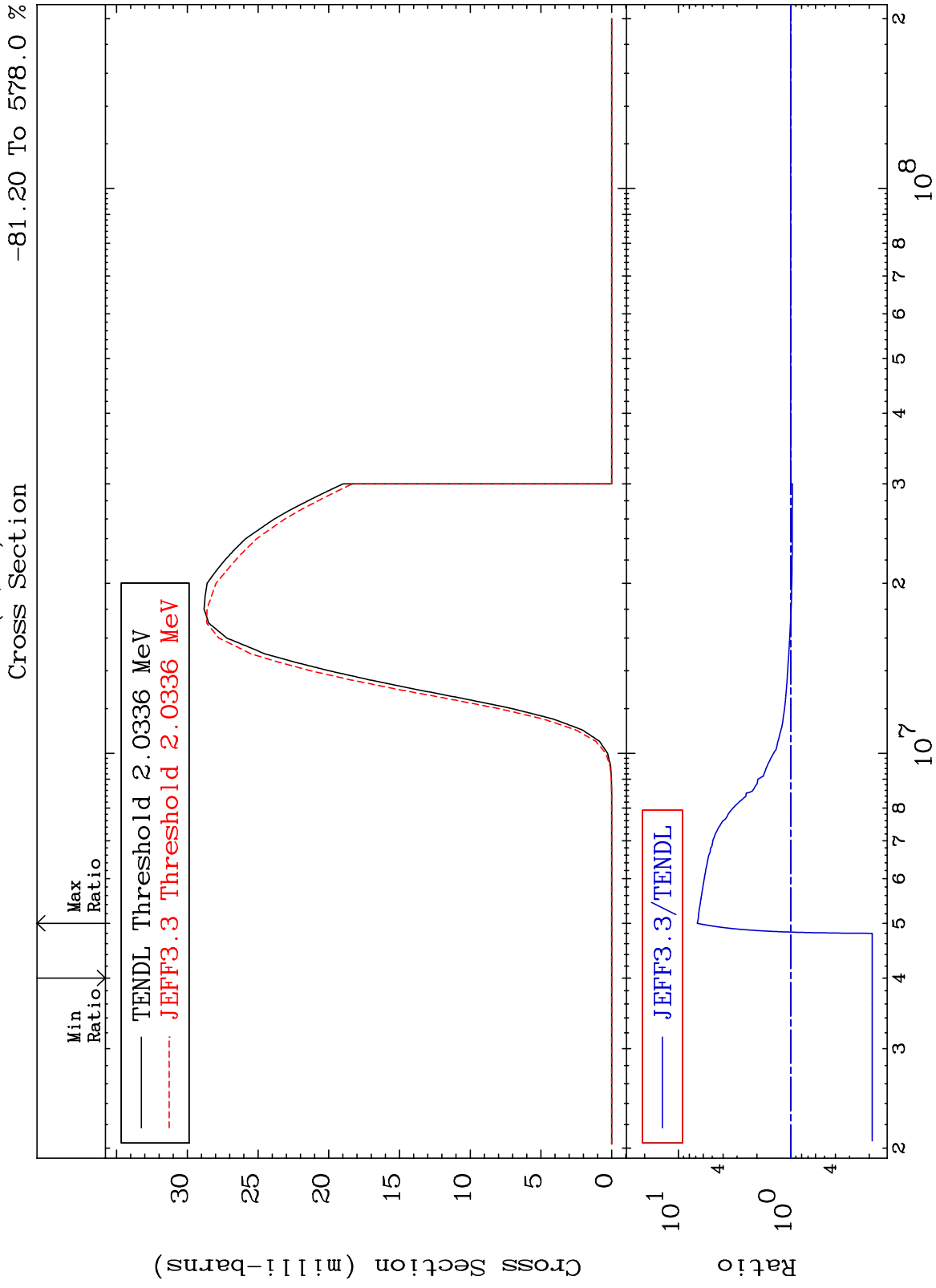
(n,  $\alpha$ )

20-Ca-41

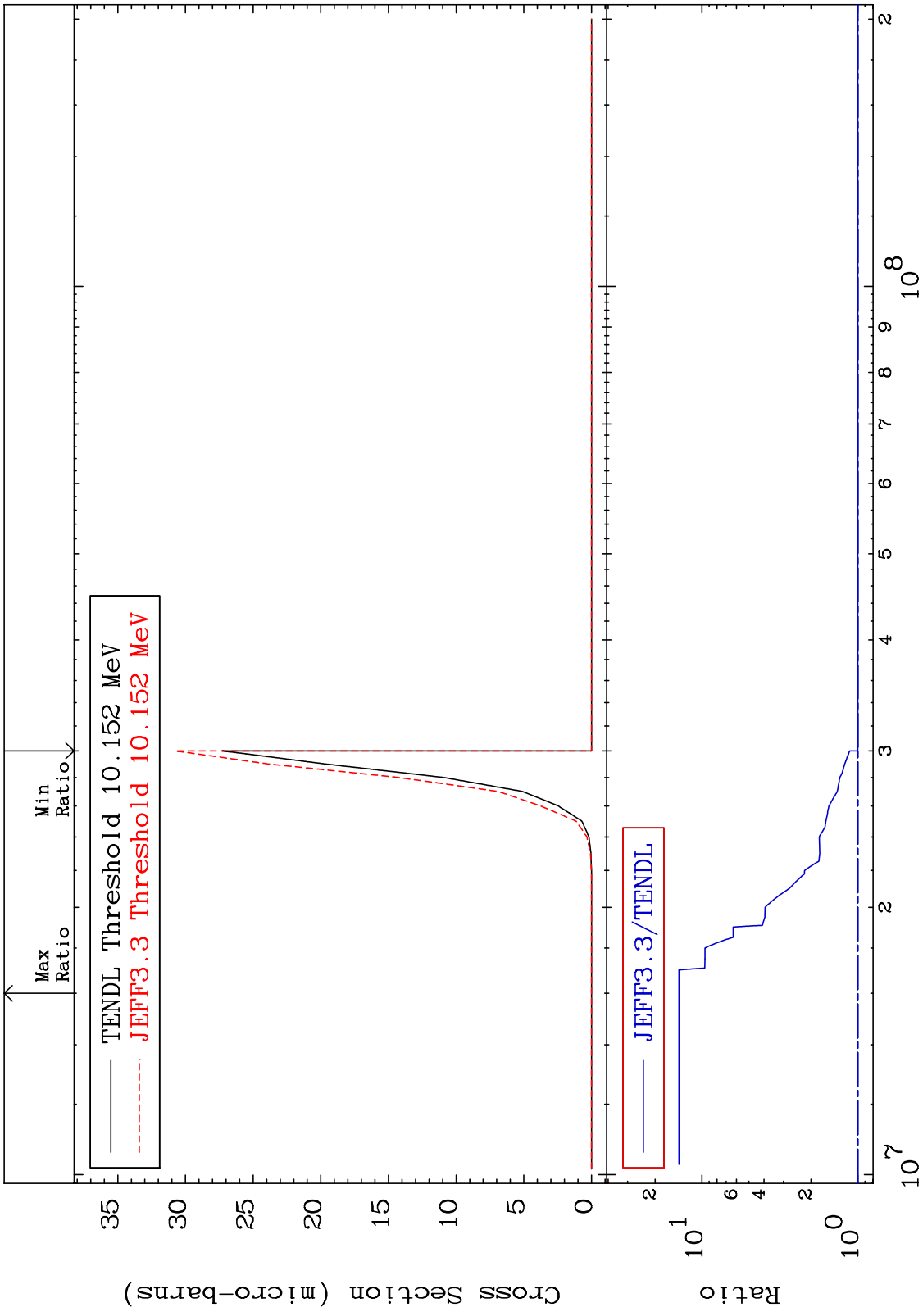
-12.48 To 11.15 %

Cross Section



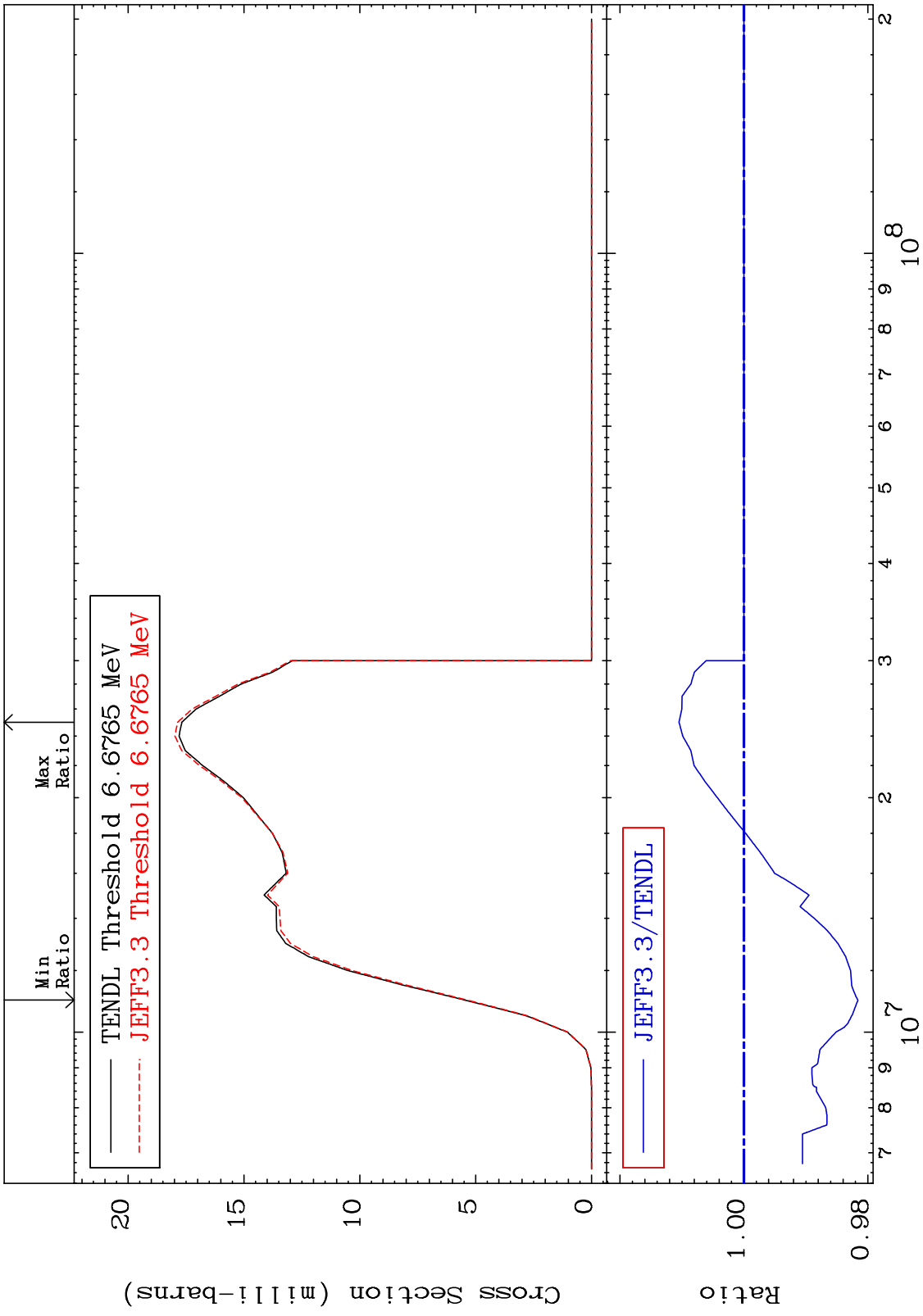


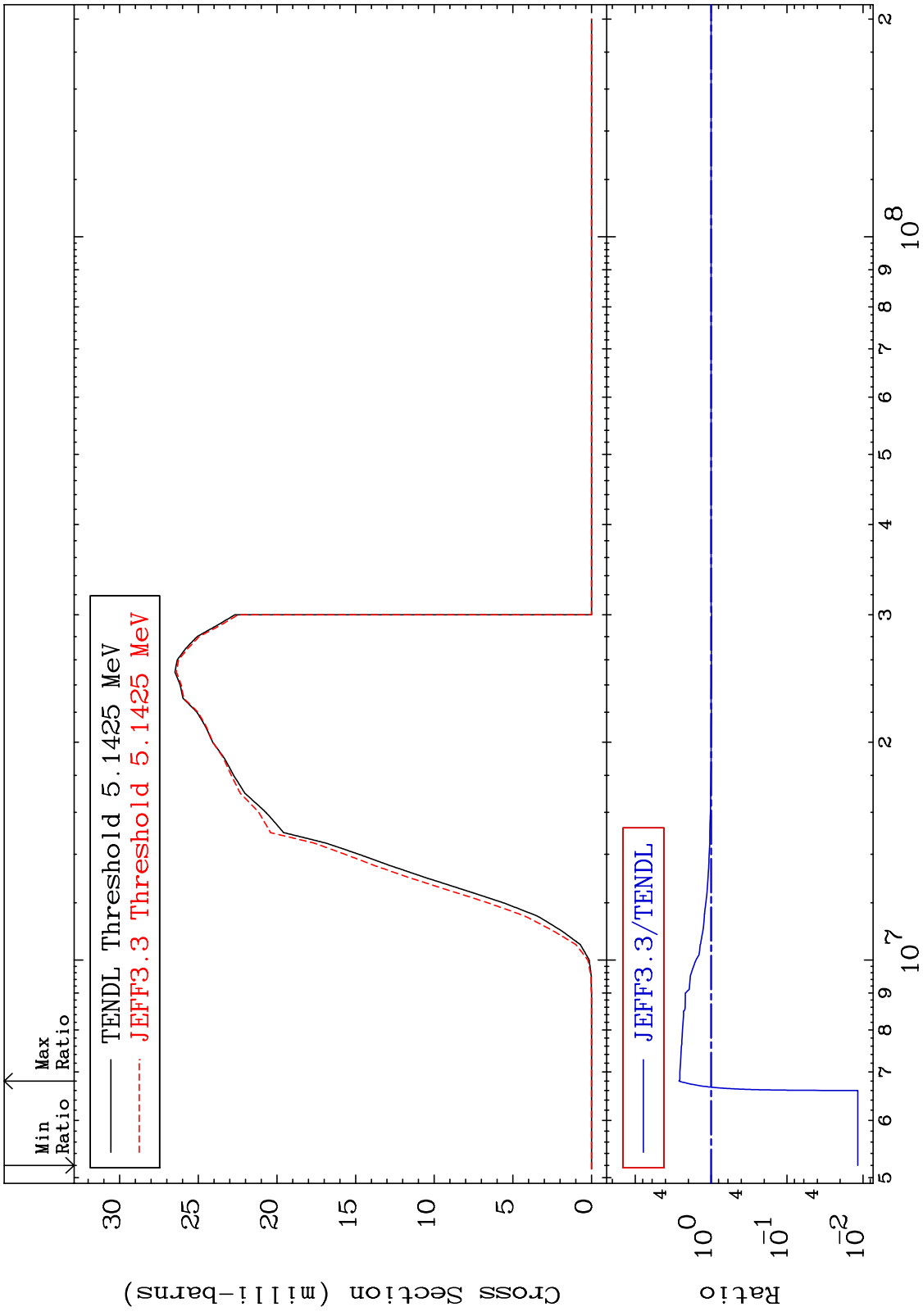
MAT 2028  $(n, 3\alpha)$  20-Ca-41  
 Cross Section 0.000 To 1304. %



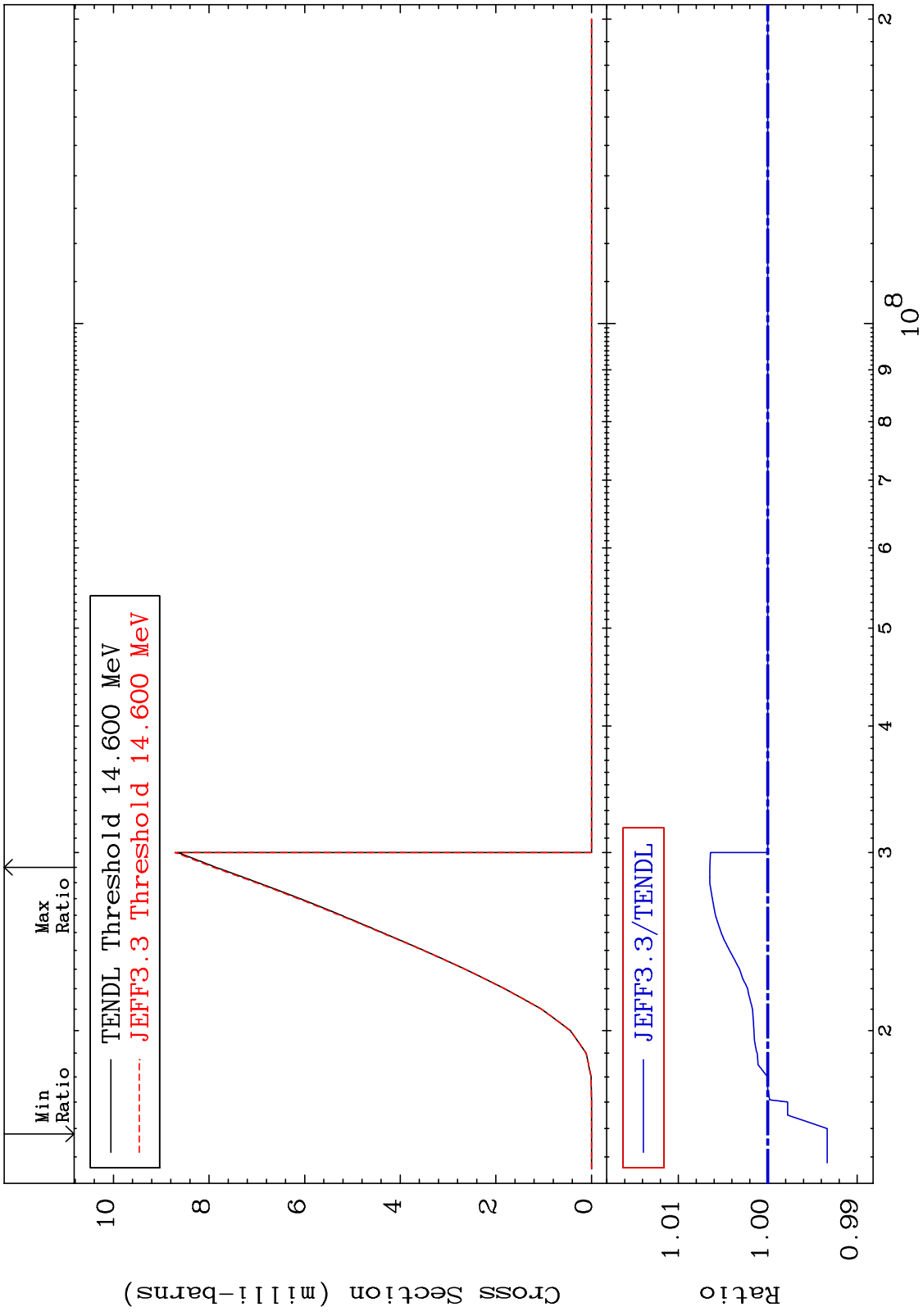
54 Incident Energy (eV) 20-Ca-41

MAT 2028 (n,2p) 20-Ca-41  
 Cross Section -1.838 To 1.047 %

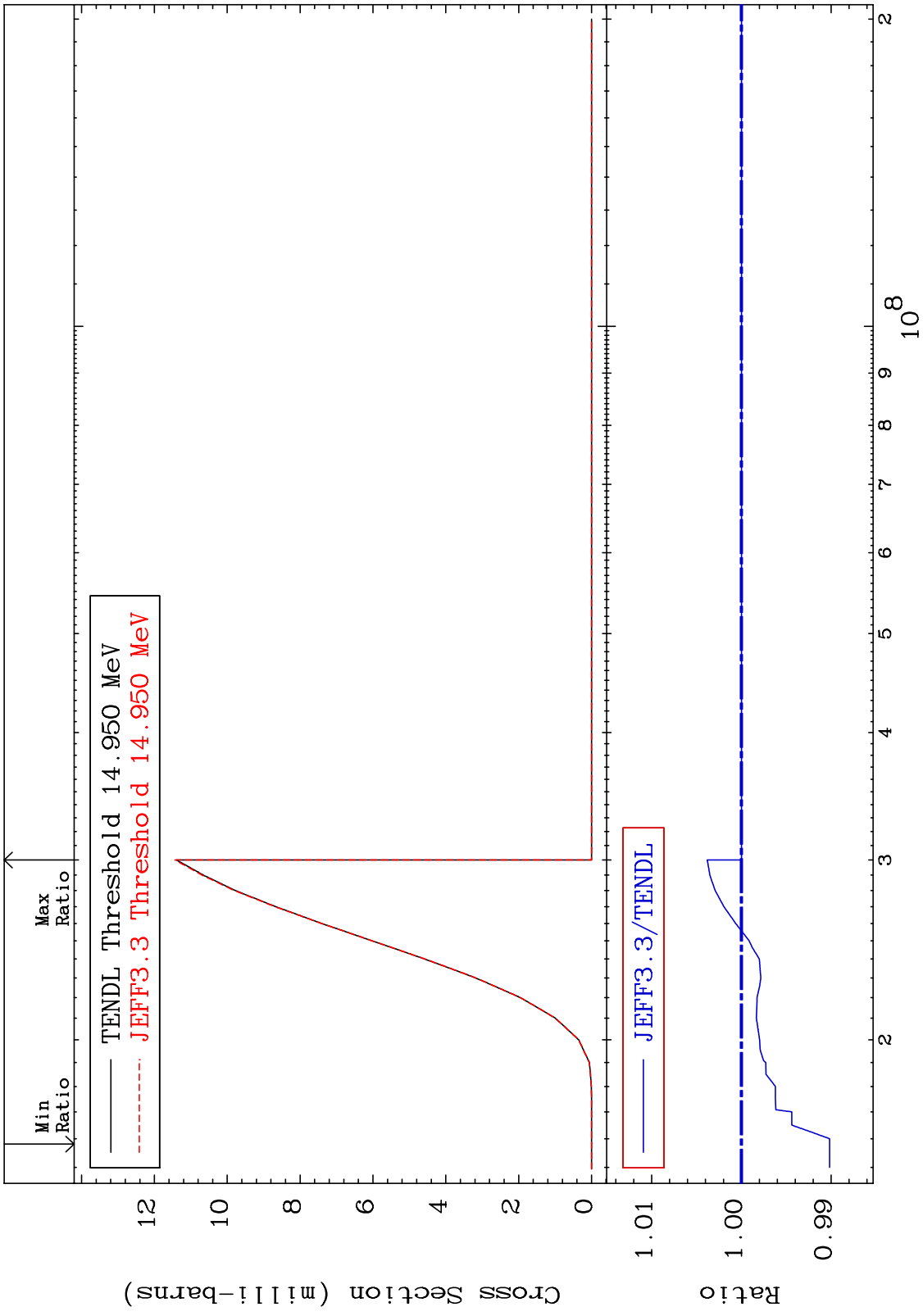




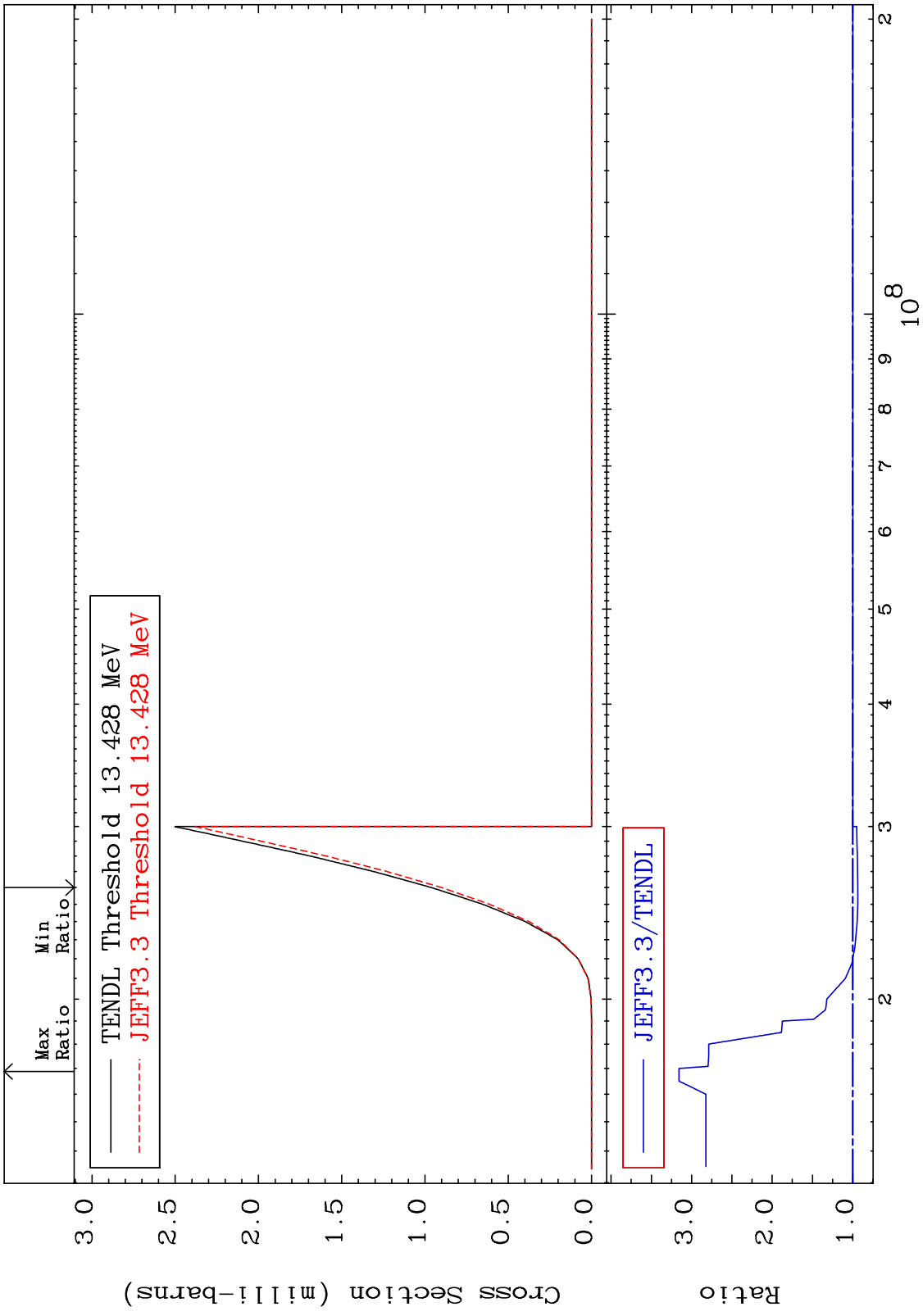
MAT 2028 (n,p) d 20-Ca-41  
 Cross Section -0.665 To 0.649 %



MAT 2028 (n,p) t 20-Ca-41  
 Cross Section -0.984 To 0.381 %



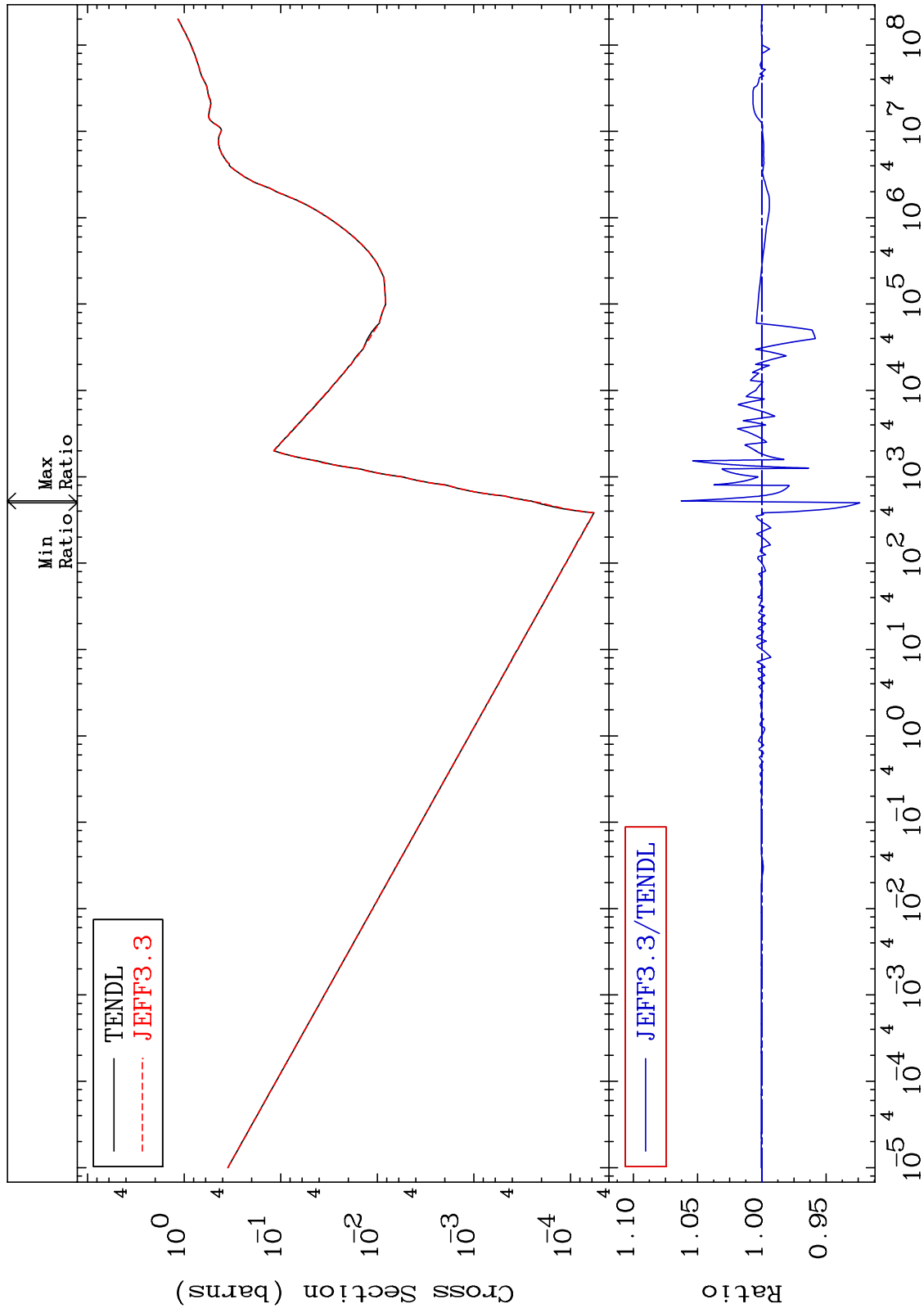
MAT 2028 (n,d)  $\alpha$  20-Ca-41  
 Cross Section -6.358 To 215.6 %



MAT 2028

Hydrogen Production  
Cross Section

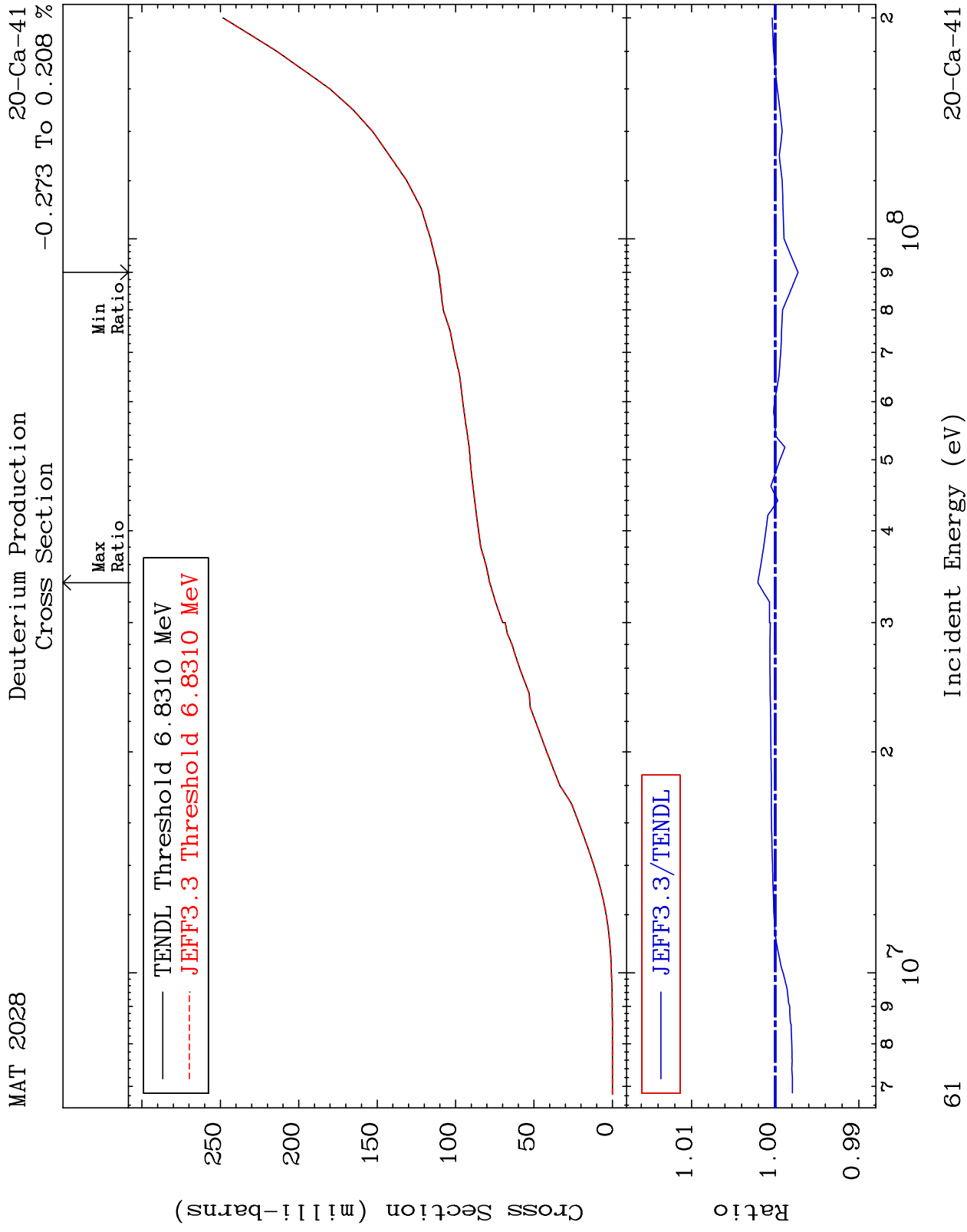
20-Ca-41  
-7.617 To 6.271 %



60

Incident Energy (eV)

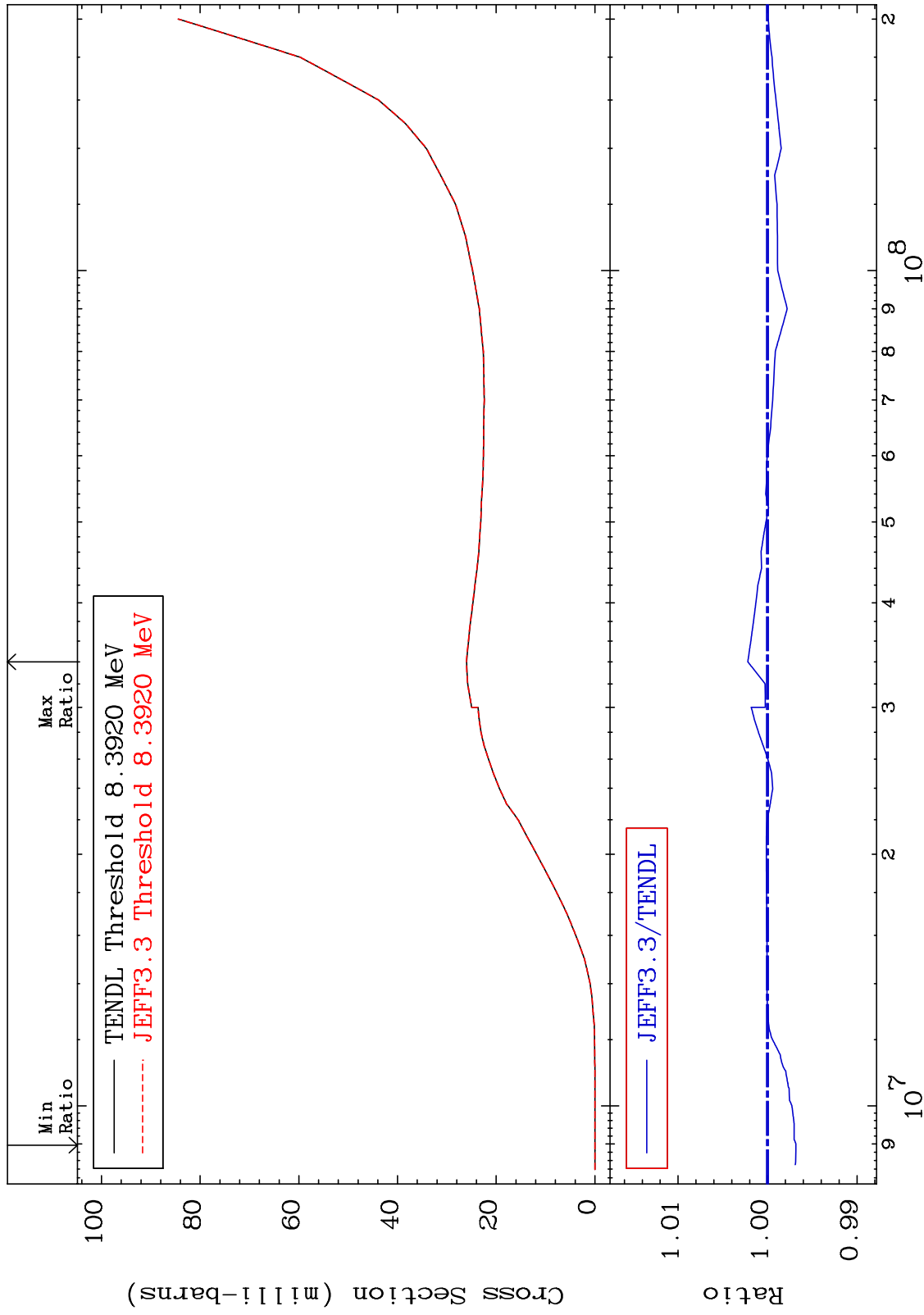
20-Ca-41



MAT 2028

Tritium Production  
Cross Section

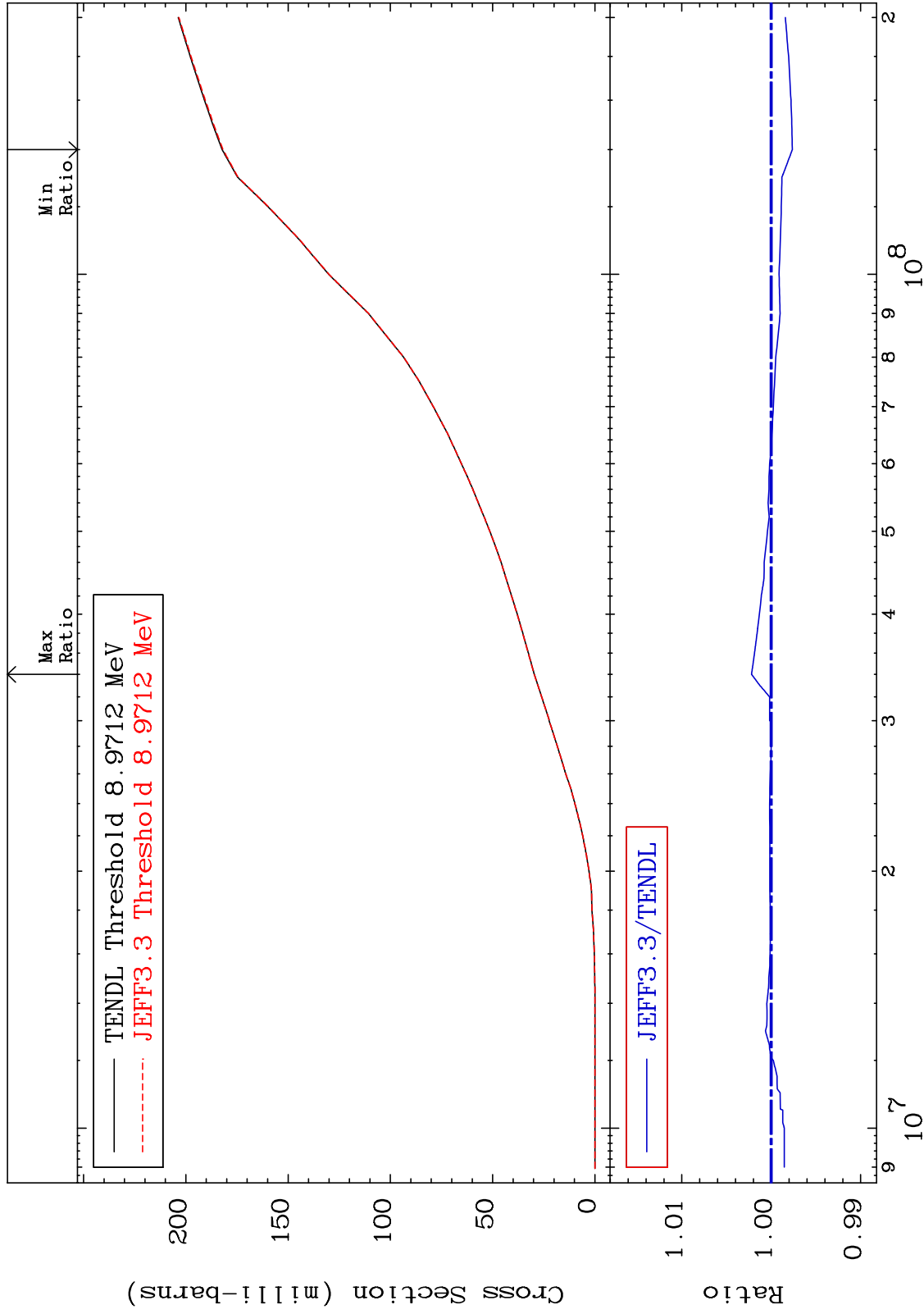
20-Ca-41  
-0.318 To 0.220 %



MAT 2028

He-3 Production  
Cross Section

20-Ca-41  
-0.235 To 0.221 %



63

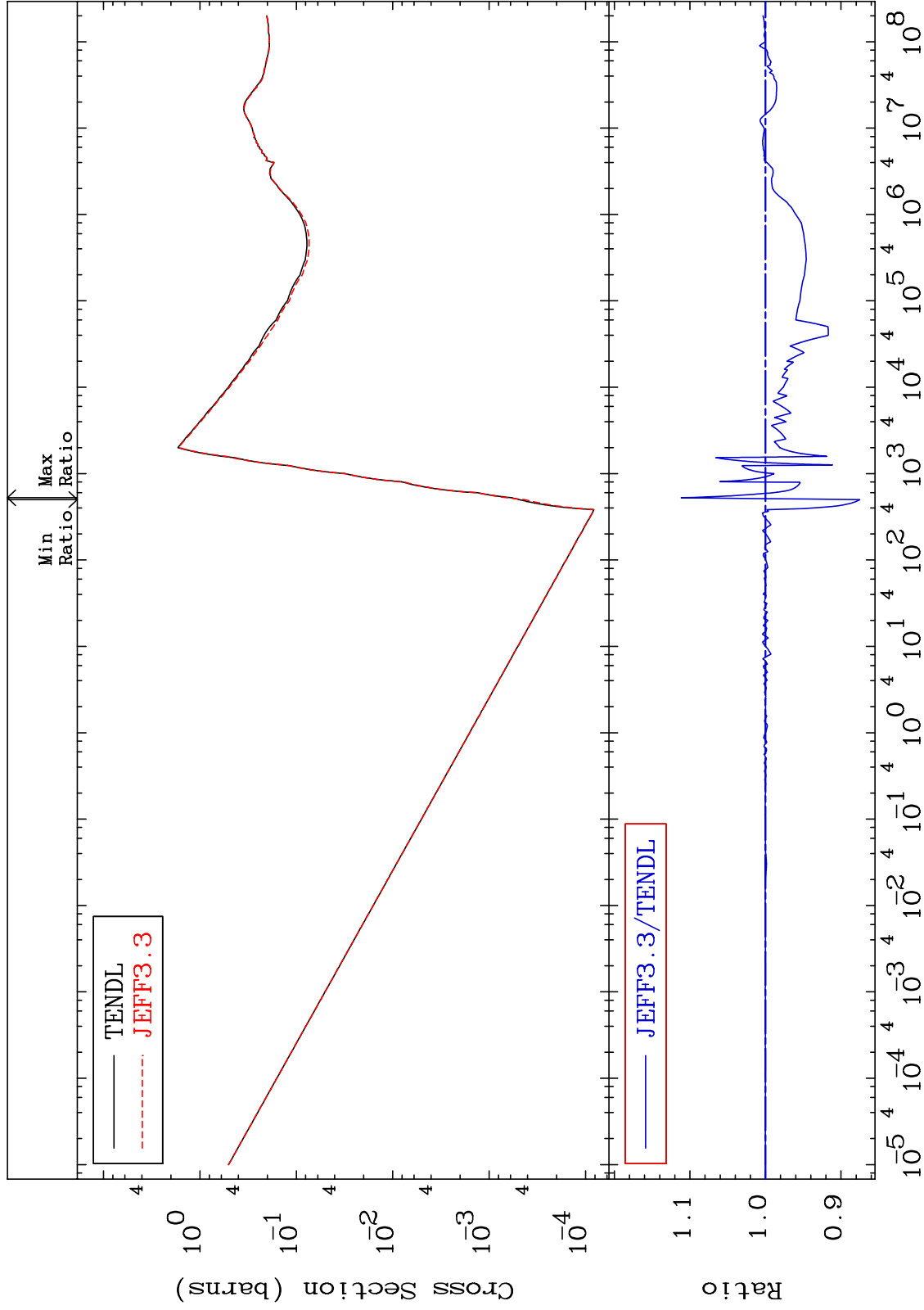
Incident Energy (eV)

20-Ca-41

MAT 2028

He-4 Production  
Cross Section

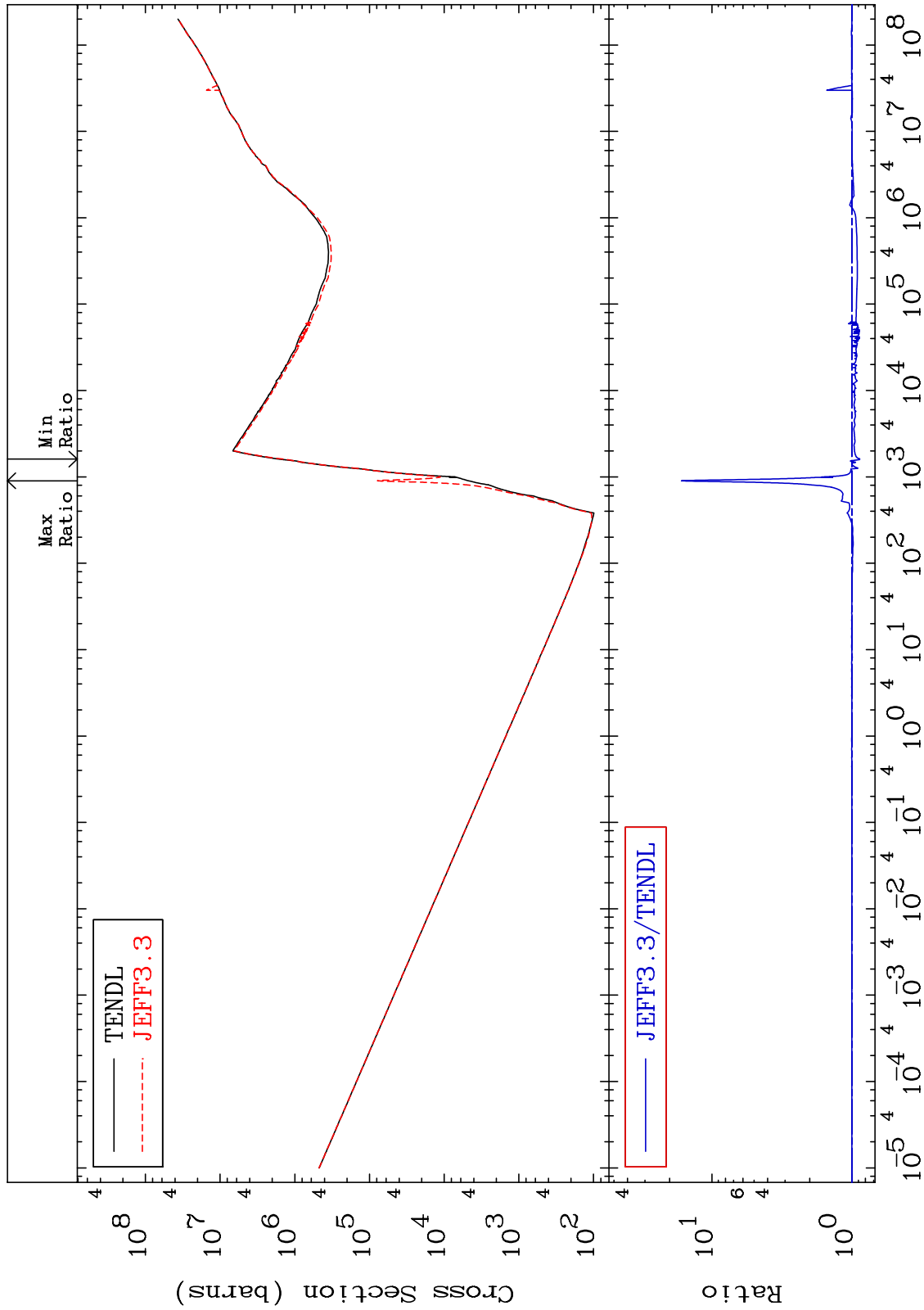
20-Ca-41  
-12.48 To 11.15 %



MAT 2028

Kerma total (eV-barns)  
Cross Section

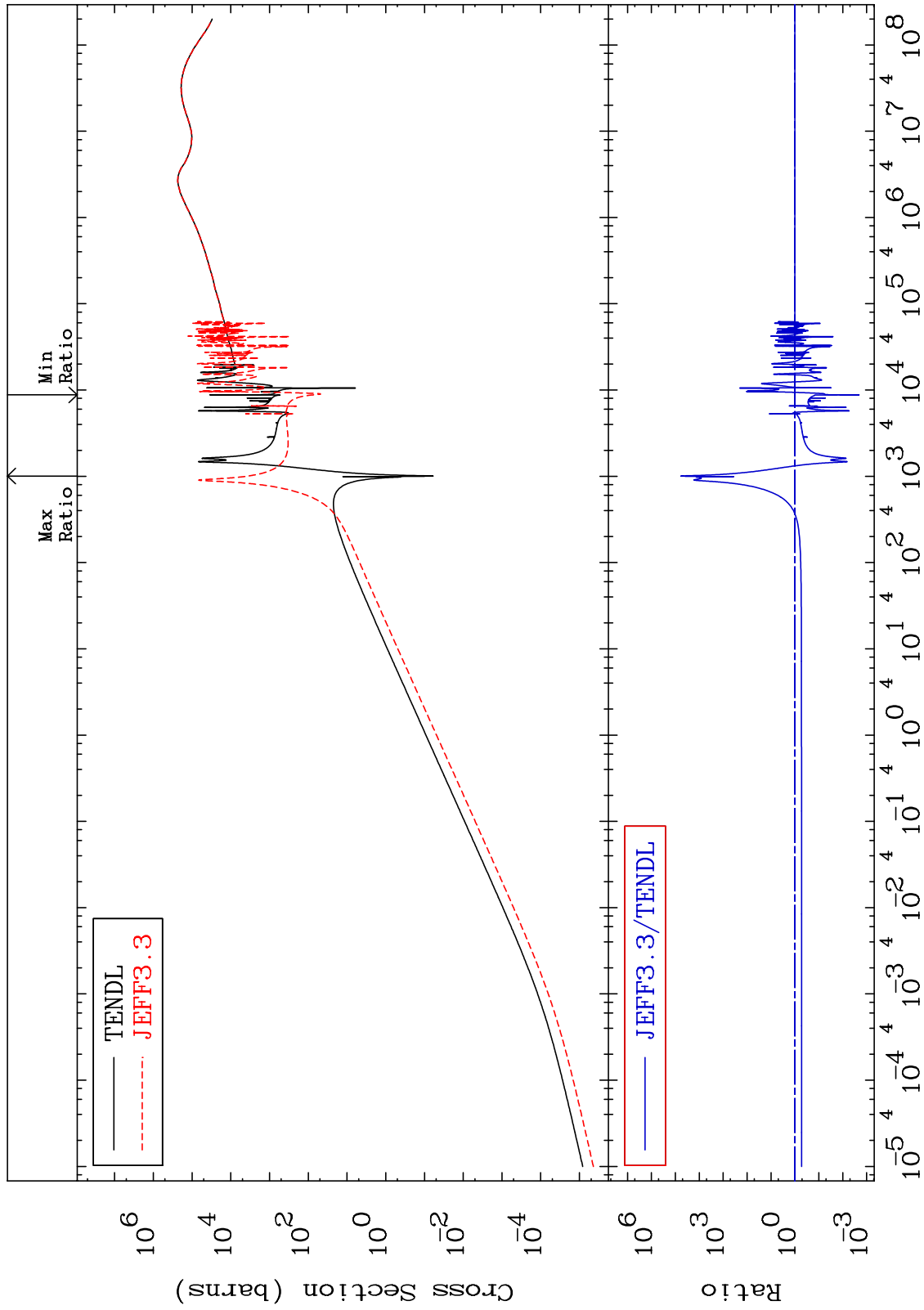
20-Ca-41  
-12.13 To 1554. %



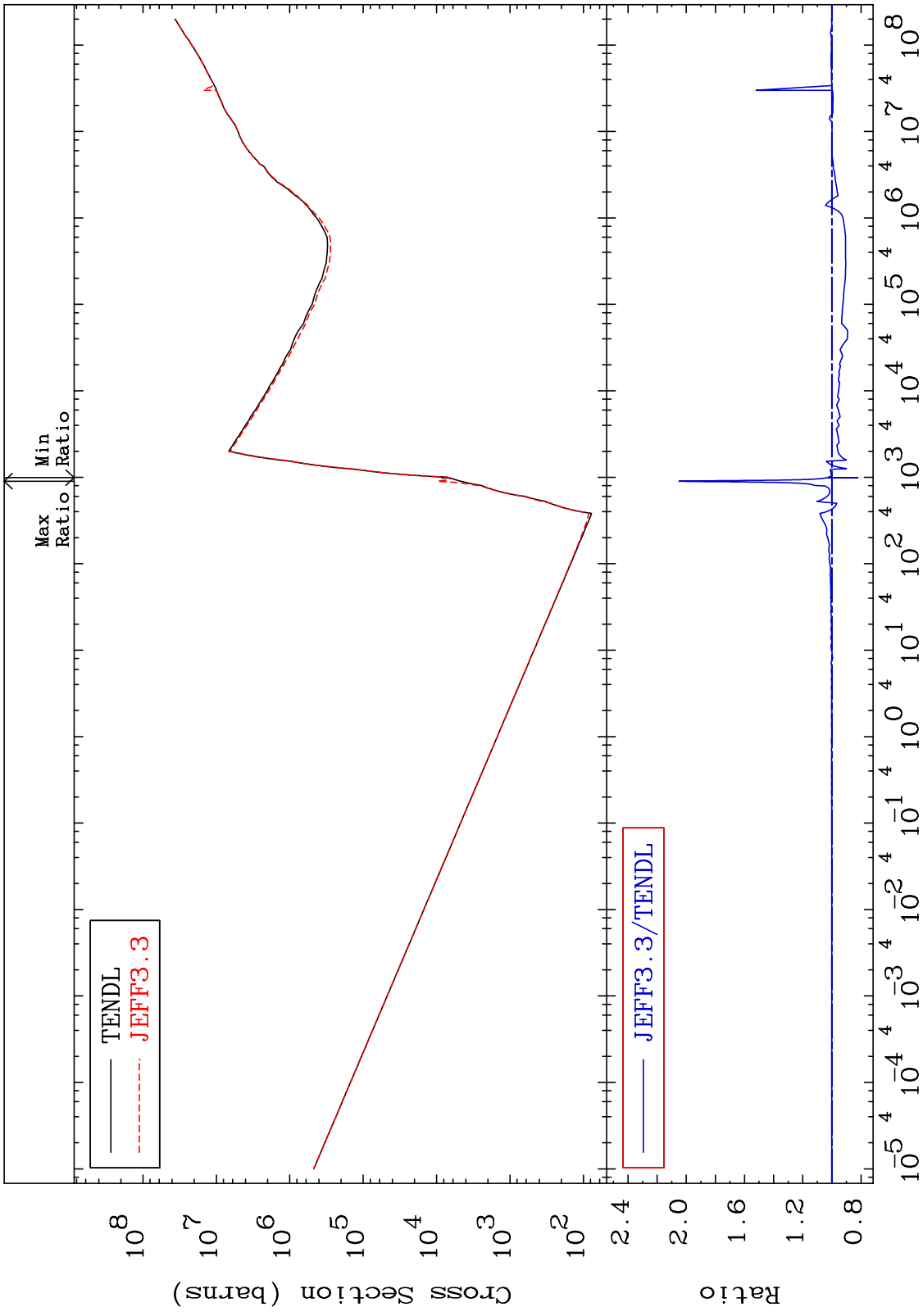
MAT 2028

Kerma elastic  
Cross Section

20-Ca-41  
-99.79 To 9999. %



MAT 2028 Kerma non-elastic (all but mt2) 20-Ca-41  
Cross Section -17.83 To 105.0 %

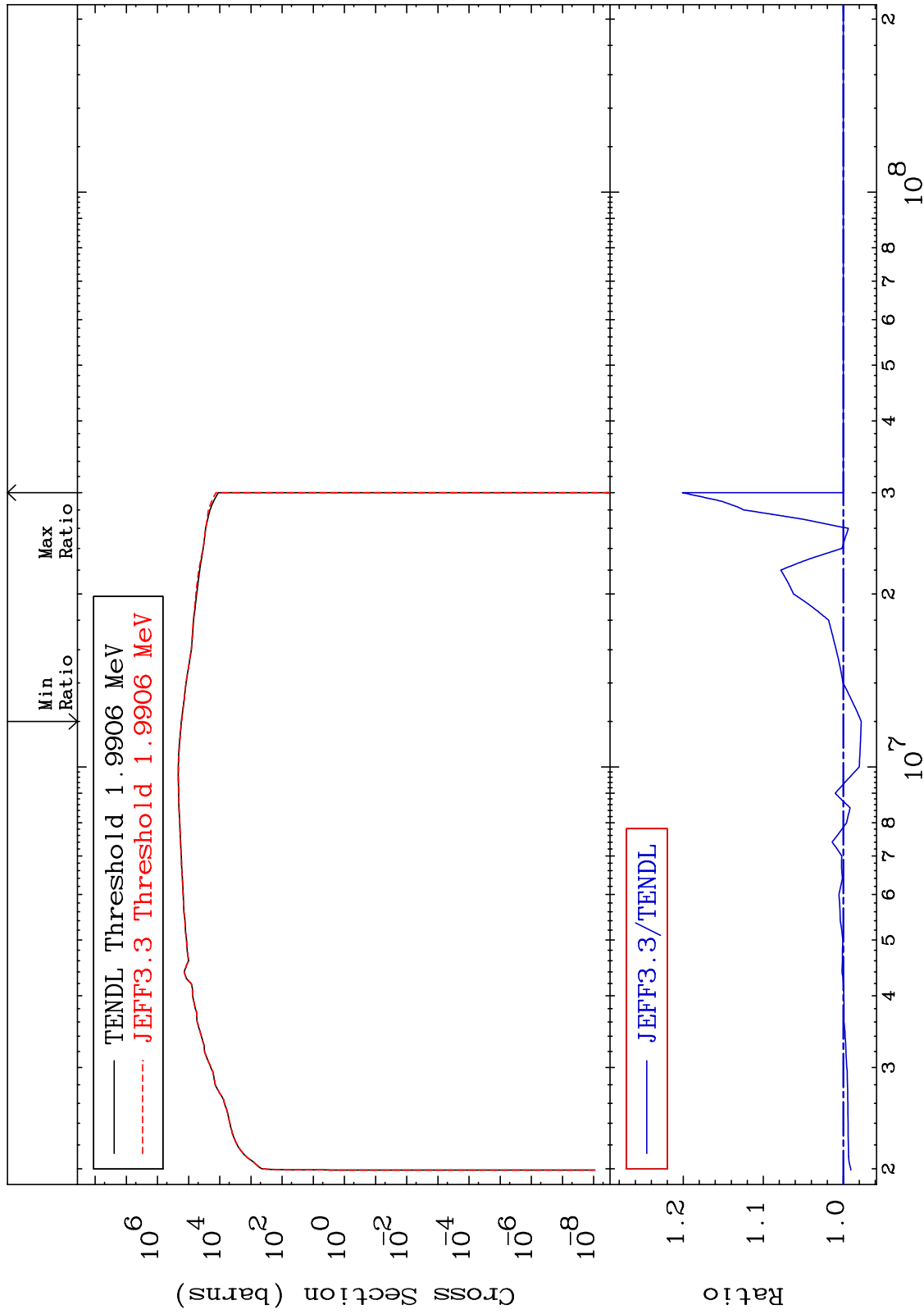


67 20-Ca-41

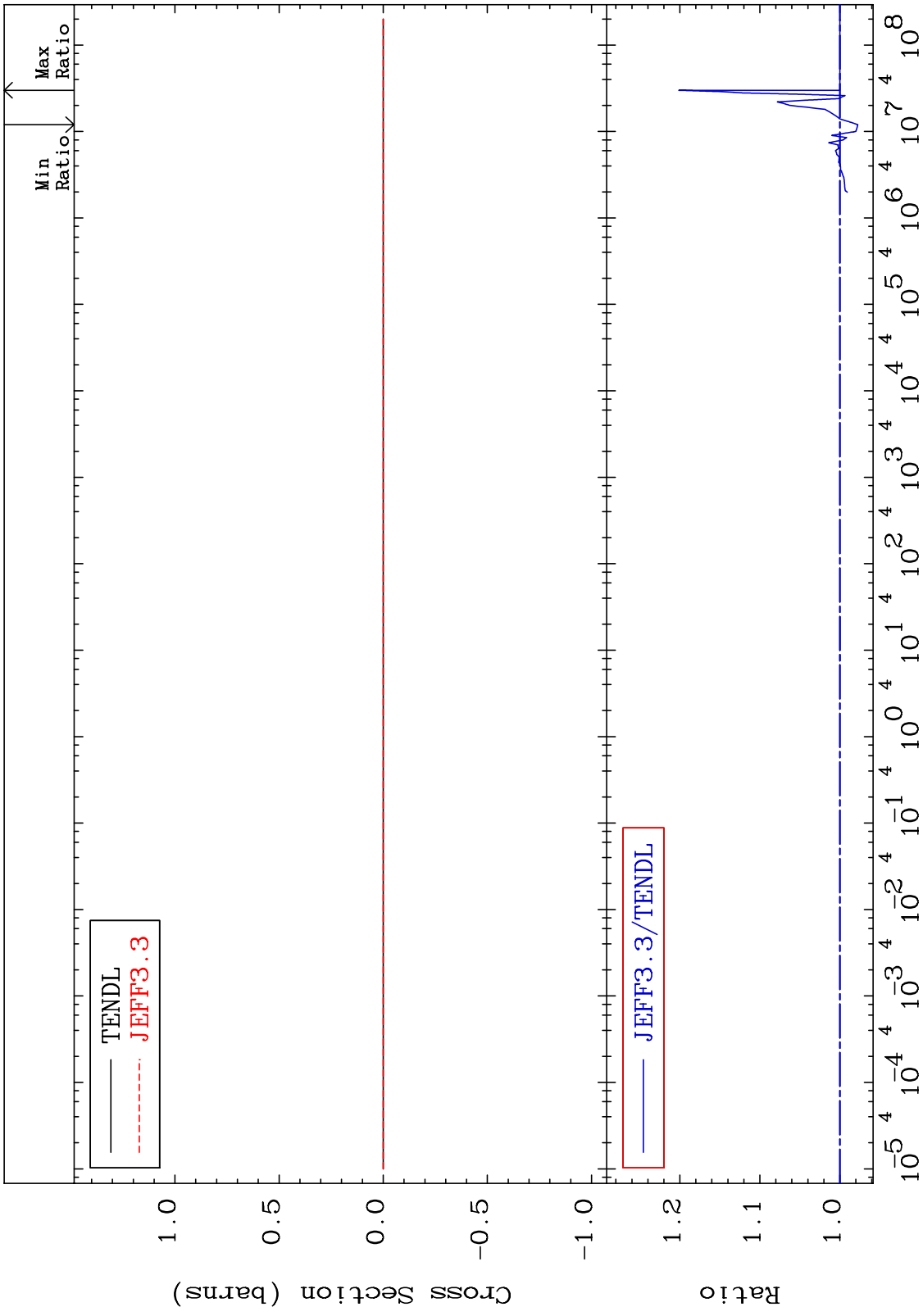
MAT 2028

Kerma inelastic (mt51-91)  
Cross Section

20-Ca-41  
-2.248 To 20.10 %



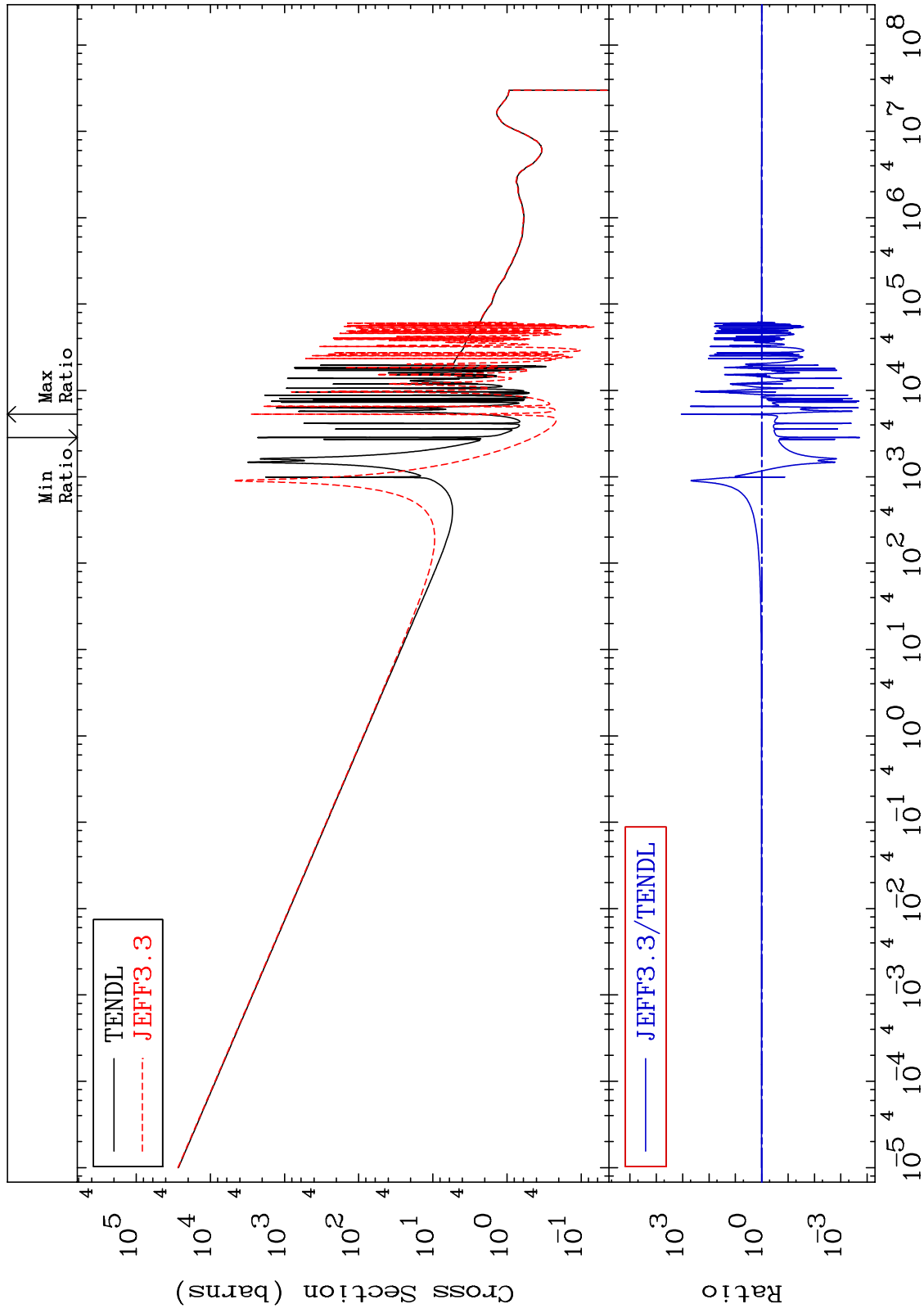
MAT 2028 Kerma fission (mt18 or mt19-20-21-38) 20-Ca-41  
 Cross Section -2.248 To 20.10 %



MAT 2028

Kerma capture (mt102)  
Cross Section

20-Ca-41  
-99.98 To 9999. %

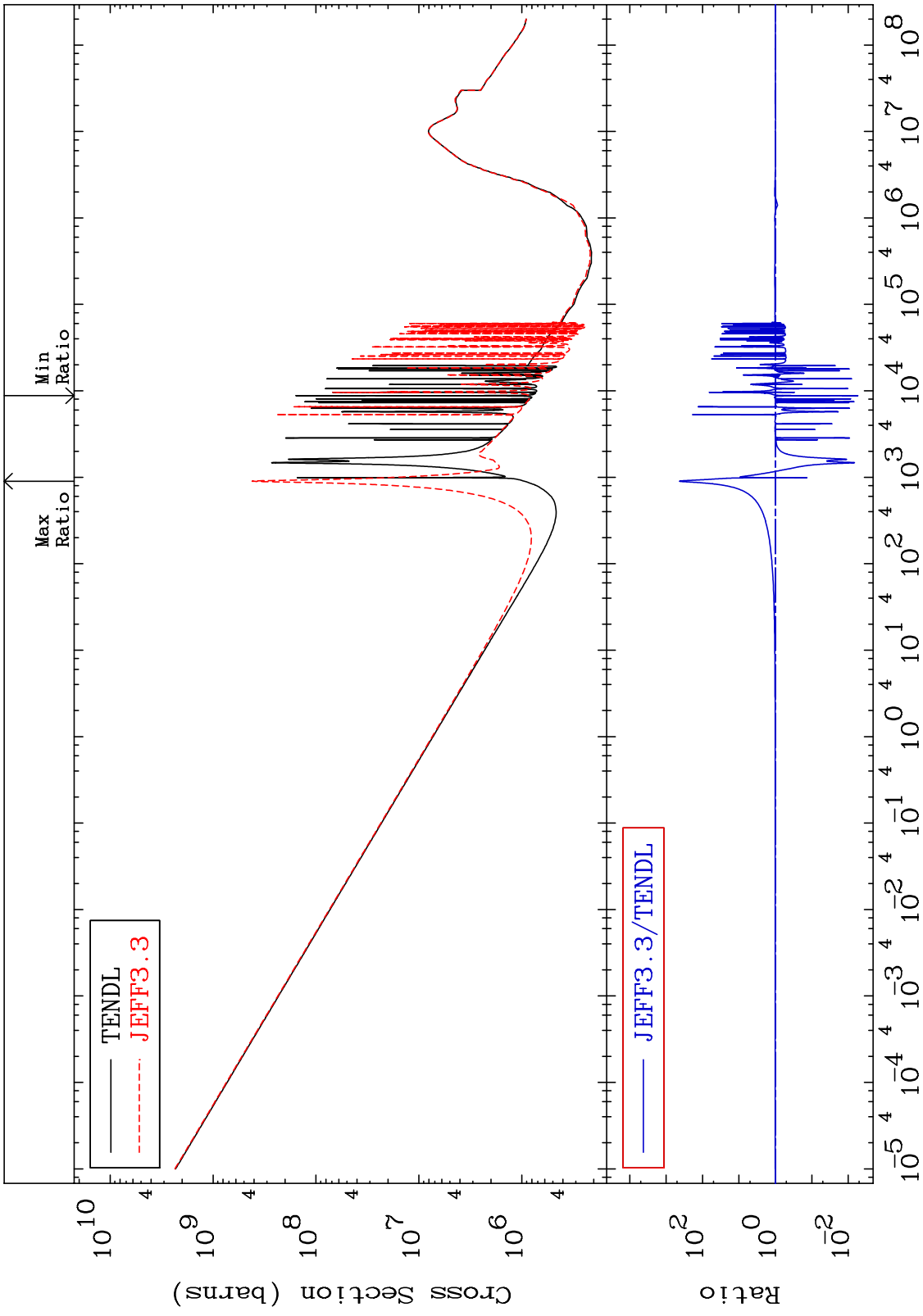


70

Incident Energy (eV)

20-Ca-41

MAT 2028 20-Ca-41  
-99.45 To 9999. %  
 Total photon (eV-barns)  
 Cross Section

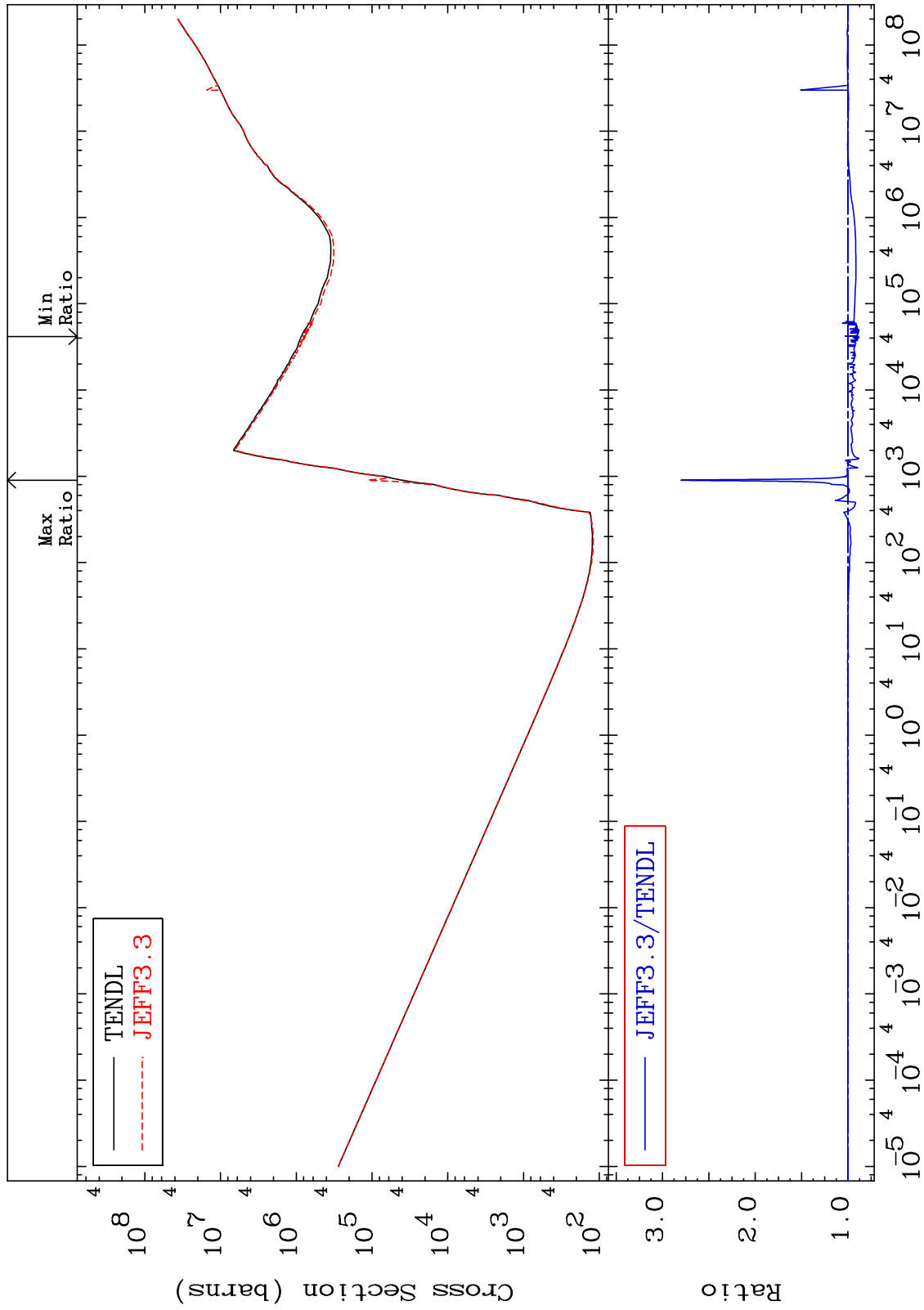


Incident Energy (eV) 20-Ca-41

MAT 2028

Total kinematic kerma (high limit)  
Cross Section

20-Ca-41  
-11.96 To 180.5 %



72

Incident Energy (eV)

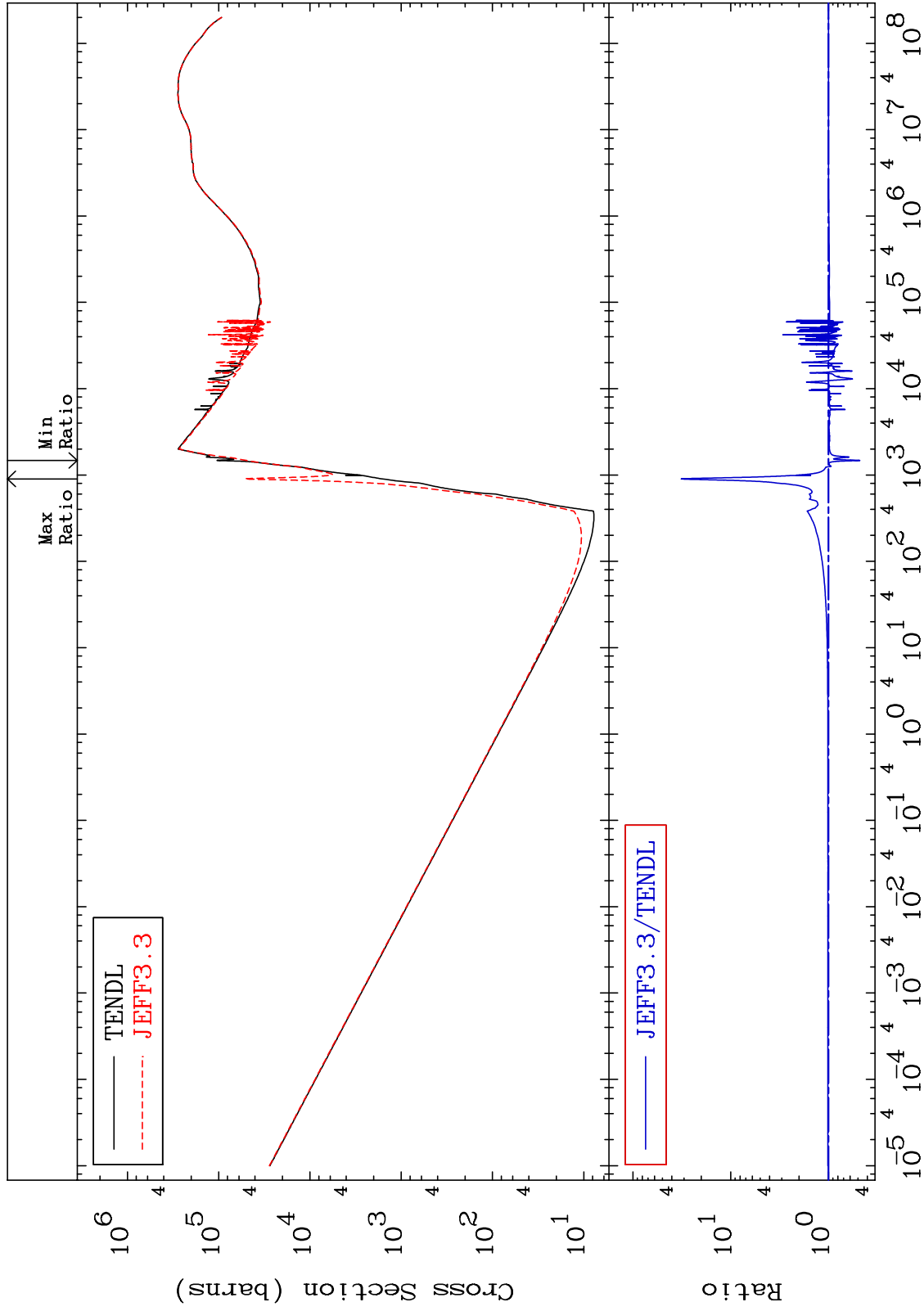
20-Ca-41

MAT 2028

Dpa total (eV-barns)

20-Ca-41

-52.14 To 3103. %



73

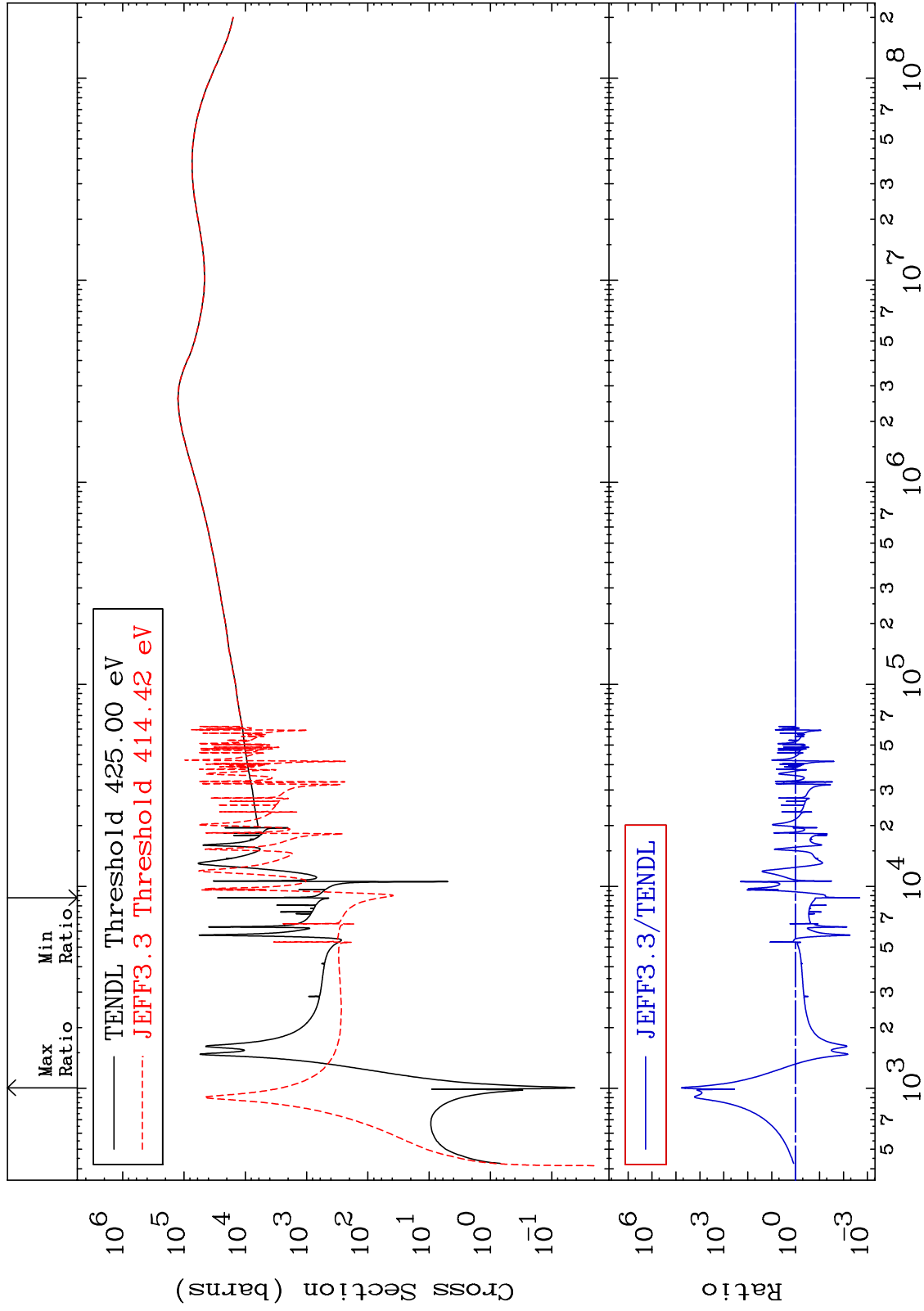
Incident Energy (eV)

20-Ca-41

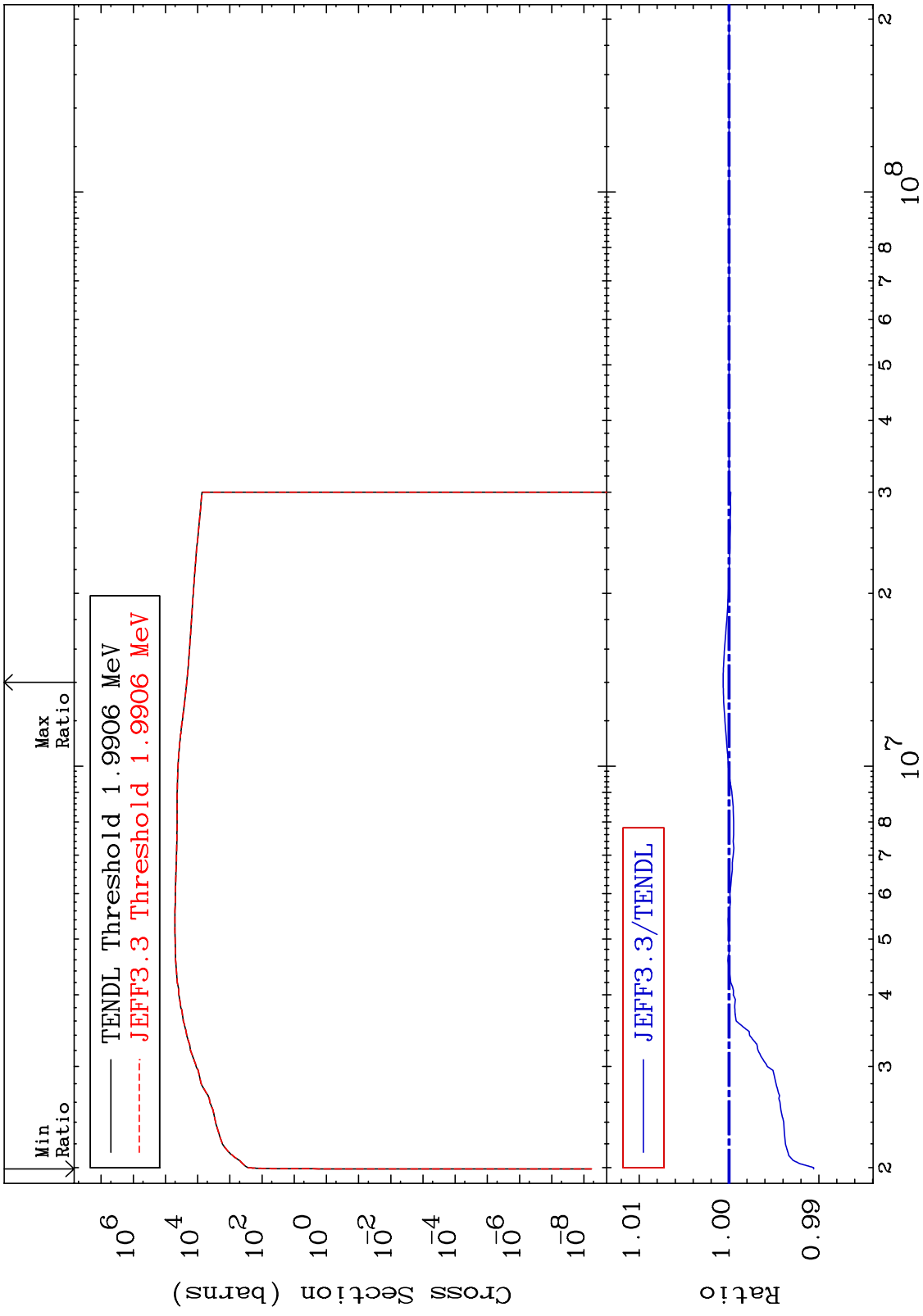
MAT 2028

Dpa elastic (mt2)  
Cross Section

20-Ca-41  
-99.79 To 9999. %



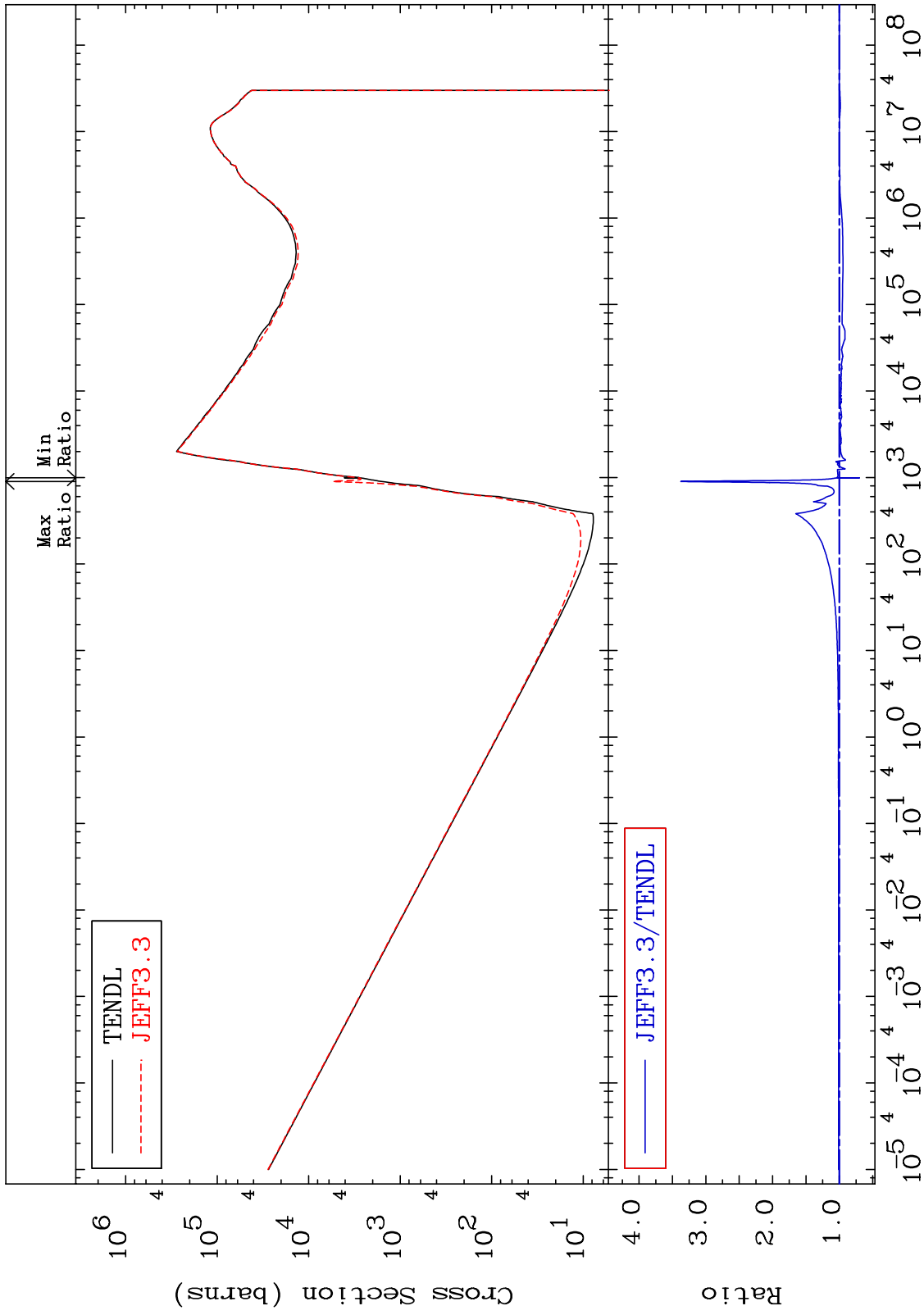
MAT 2028      Dpa inelastic (mt51-91)      20-Ca-41  
 Cross Section      -0.943 To 0.066 %



MAT 2028

Dpa disappearance (mt102 -120)  
Cross Section

20-Ca-41  
-30.40 To 237.4 %

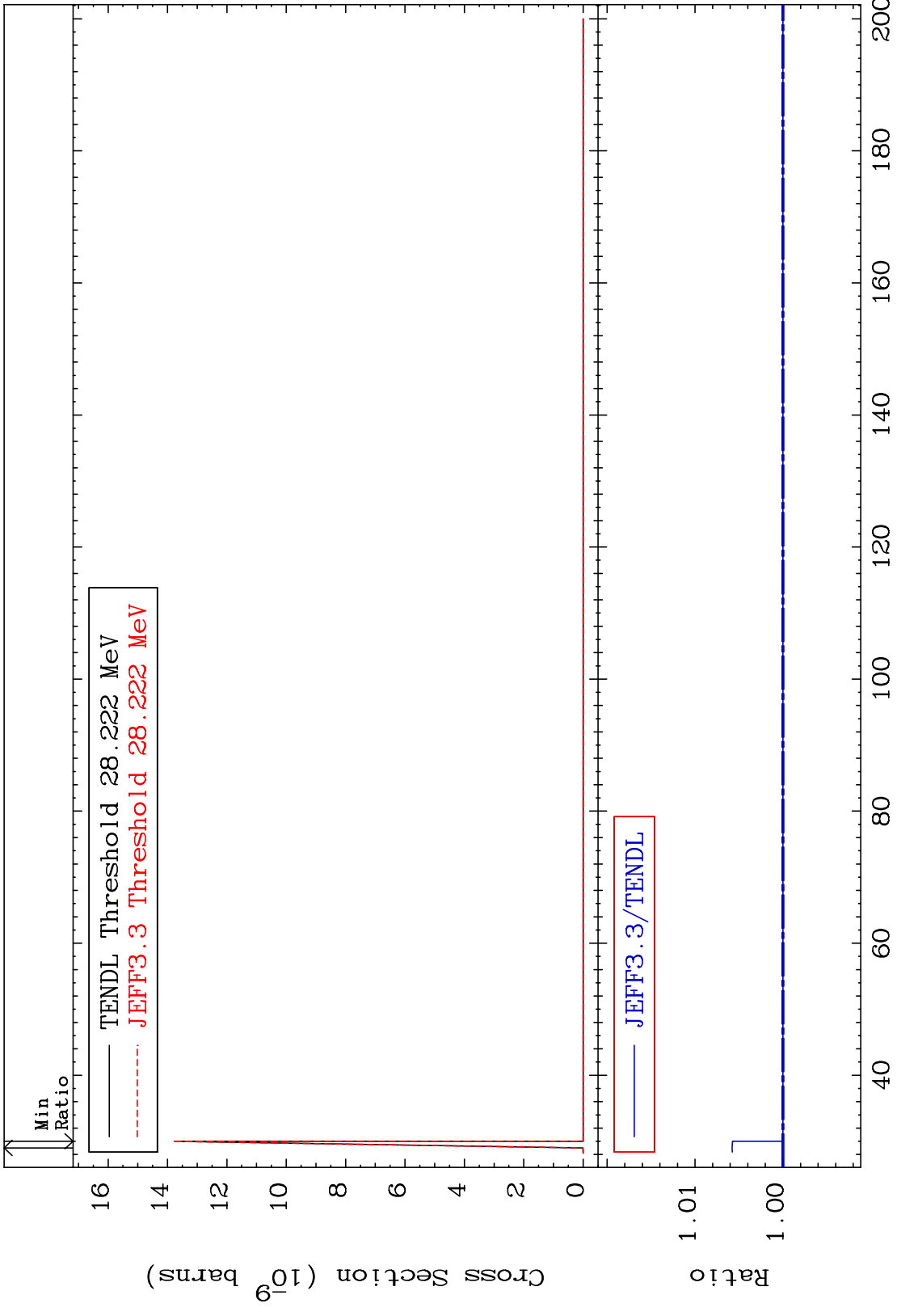


76

Incident Energy (eV)

20-Ca-41

MAT 2028 (n,2n) d:19-K -38g 20-Ca-41  
 Radionuclide Production Cross Section 0.000 To 0.578 %

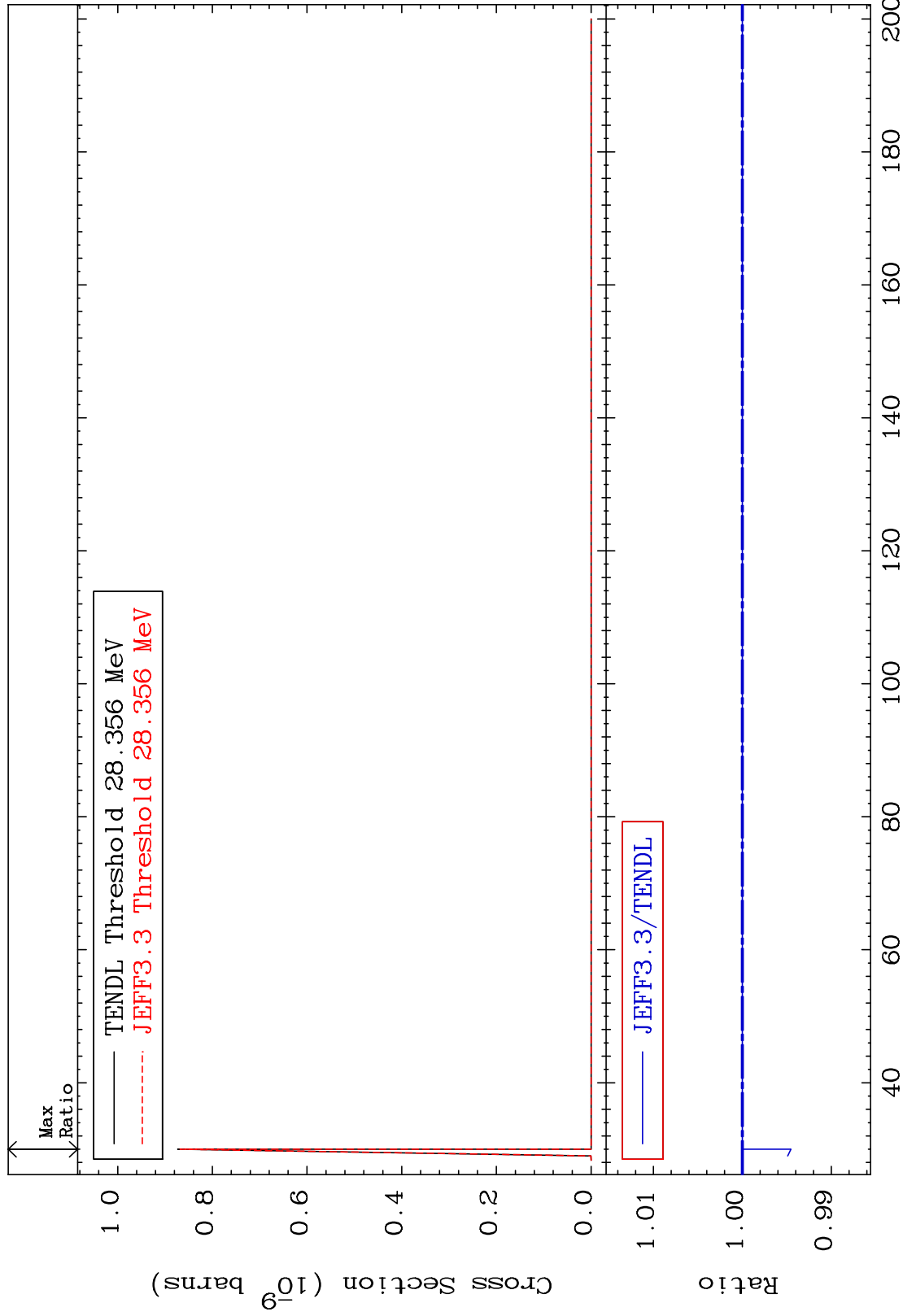


MAT 2028

(n,2n) d:19-K -38m1

20-Ca-41

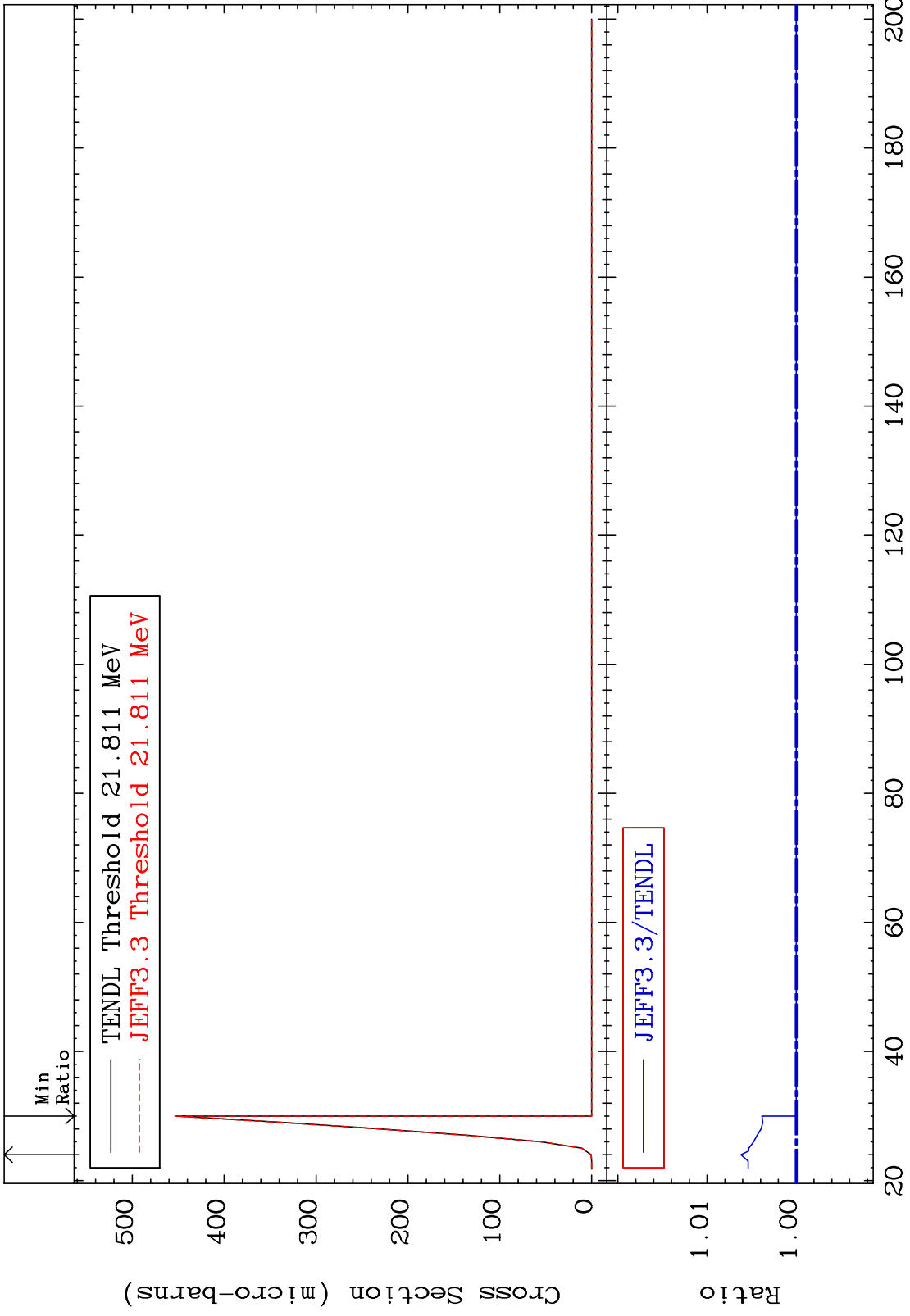
Radionuclide Production Cross Section -0.547 To 0.000 %



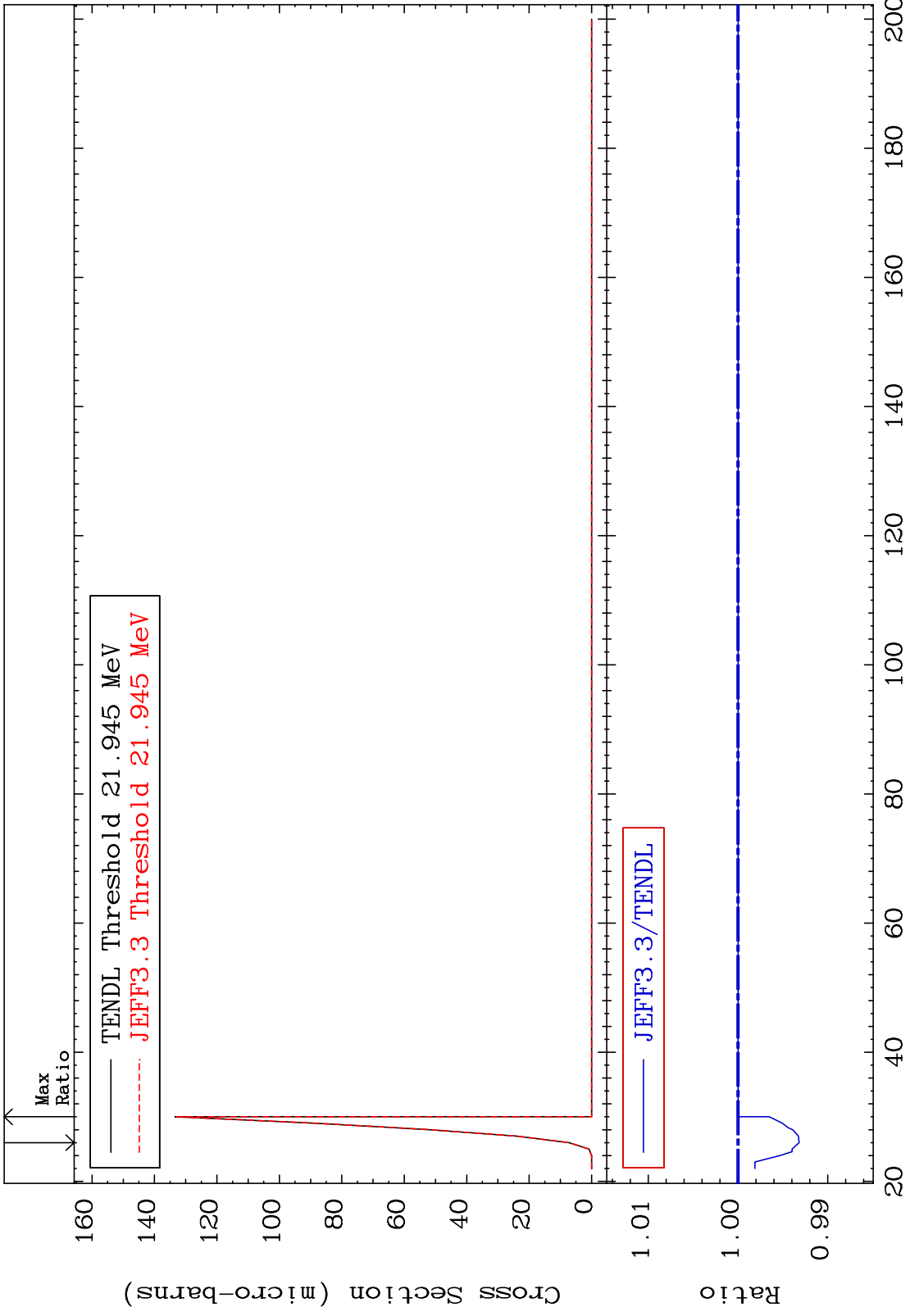
78

20-Ca-41

MAT 2028 (n,n') t:19-K -38g 20-Ca-41  
Radionuclide Production Cross Section 0.000 To 0.621 %



MAT 2028 (n,n') t:19-K -38m1 20-Ca-41  
Radionuclide Production Cross Section -0.681 To 0.000 %



80 Incident Energy (MeV) 20-Ca-41