

Program Complot  
(Version 2021-1)

by

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(Present Contact Information)

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U.S.A.

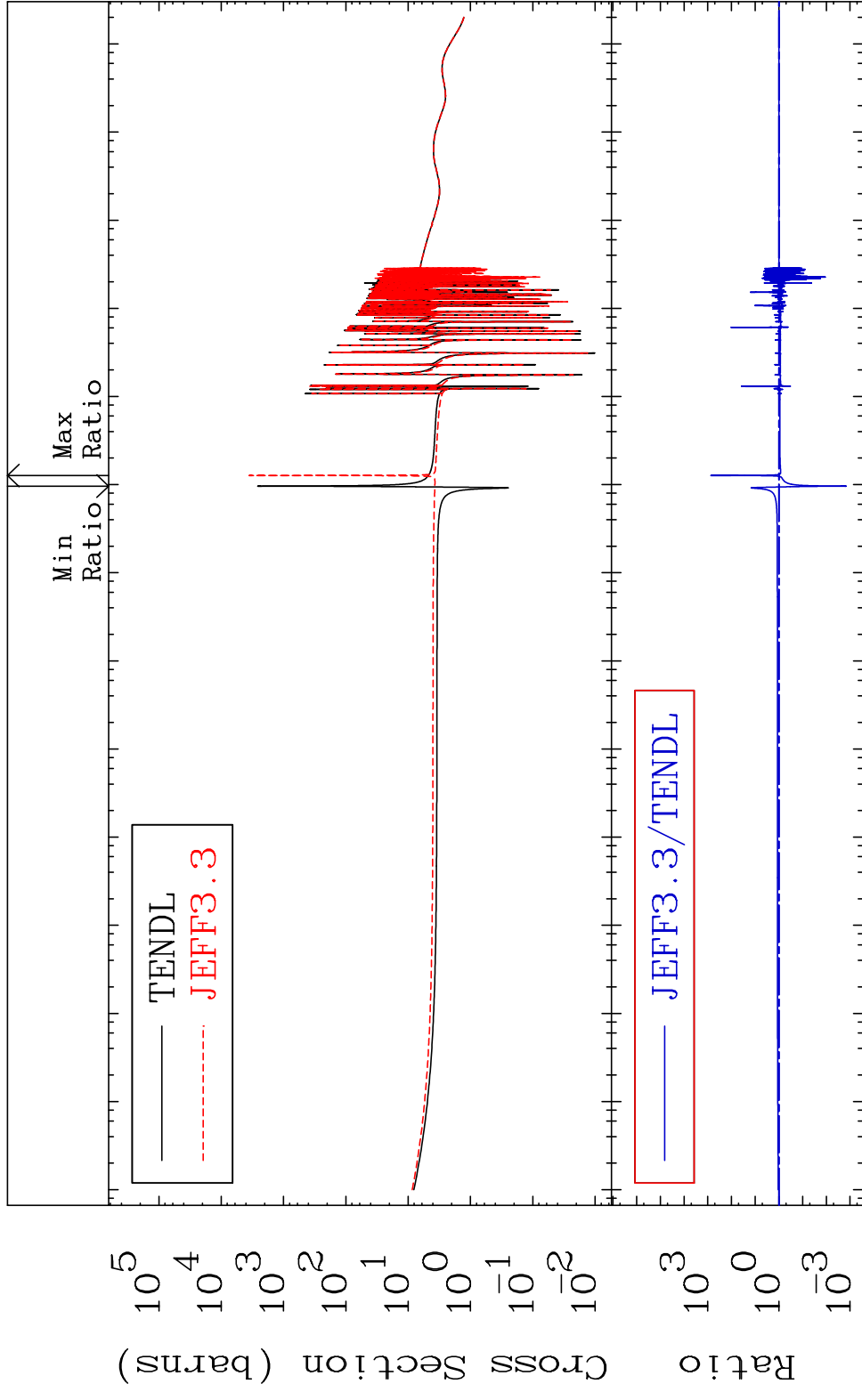
Tele: 925-443-1911

E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 3043

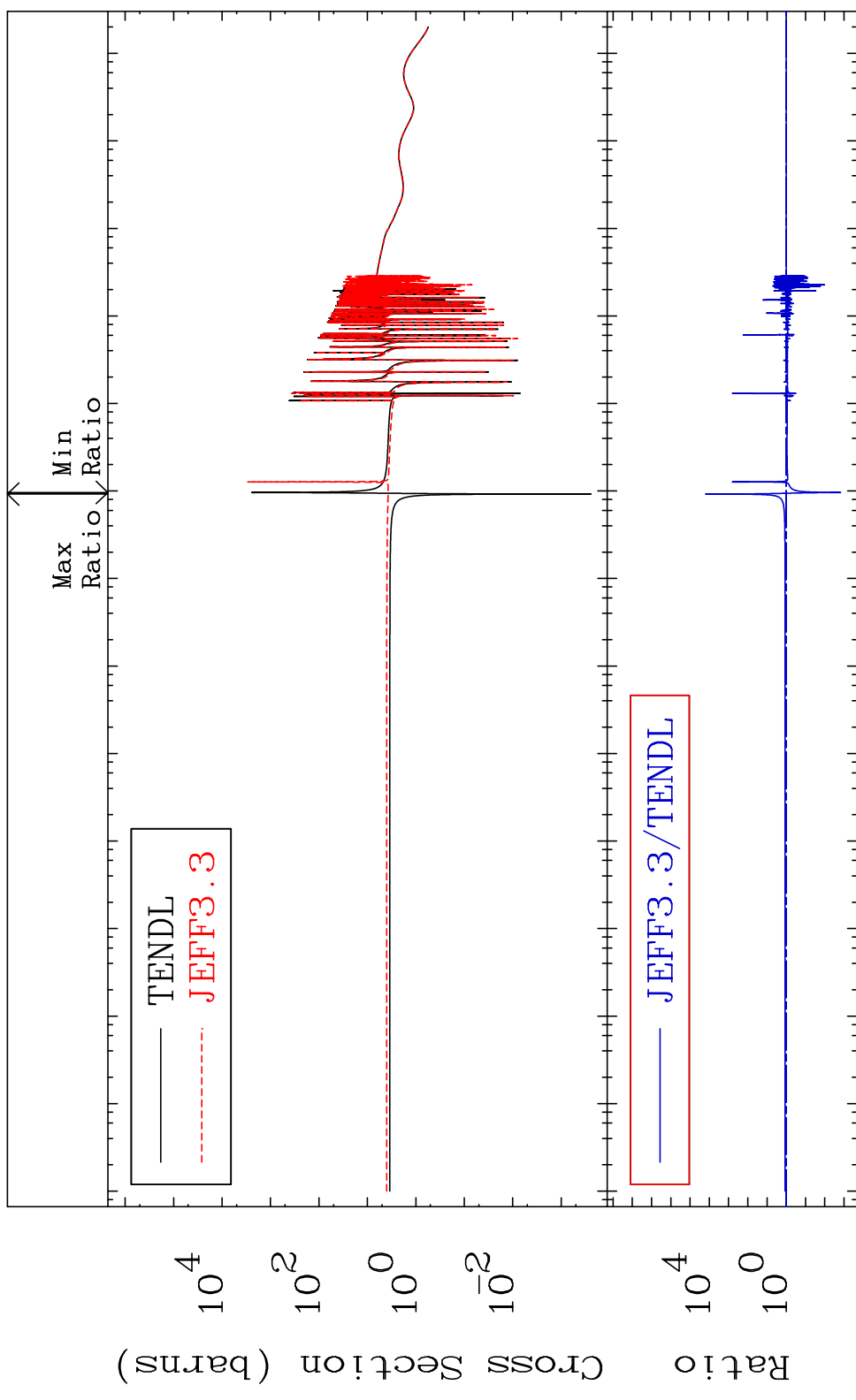
Total Cross Section -99.86 To 9999. %  
30-Zn-70



1 Incident Energy (eV) 30-Zn-70

MAT 3043

Elastic Cross Section -99.85 To 9999. % 30-Zn-70



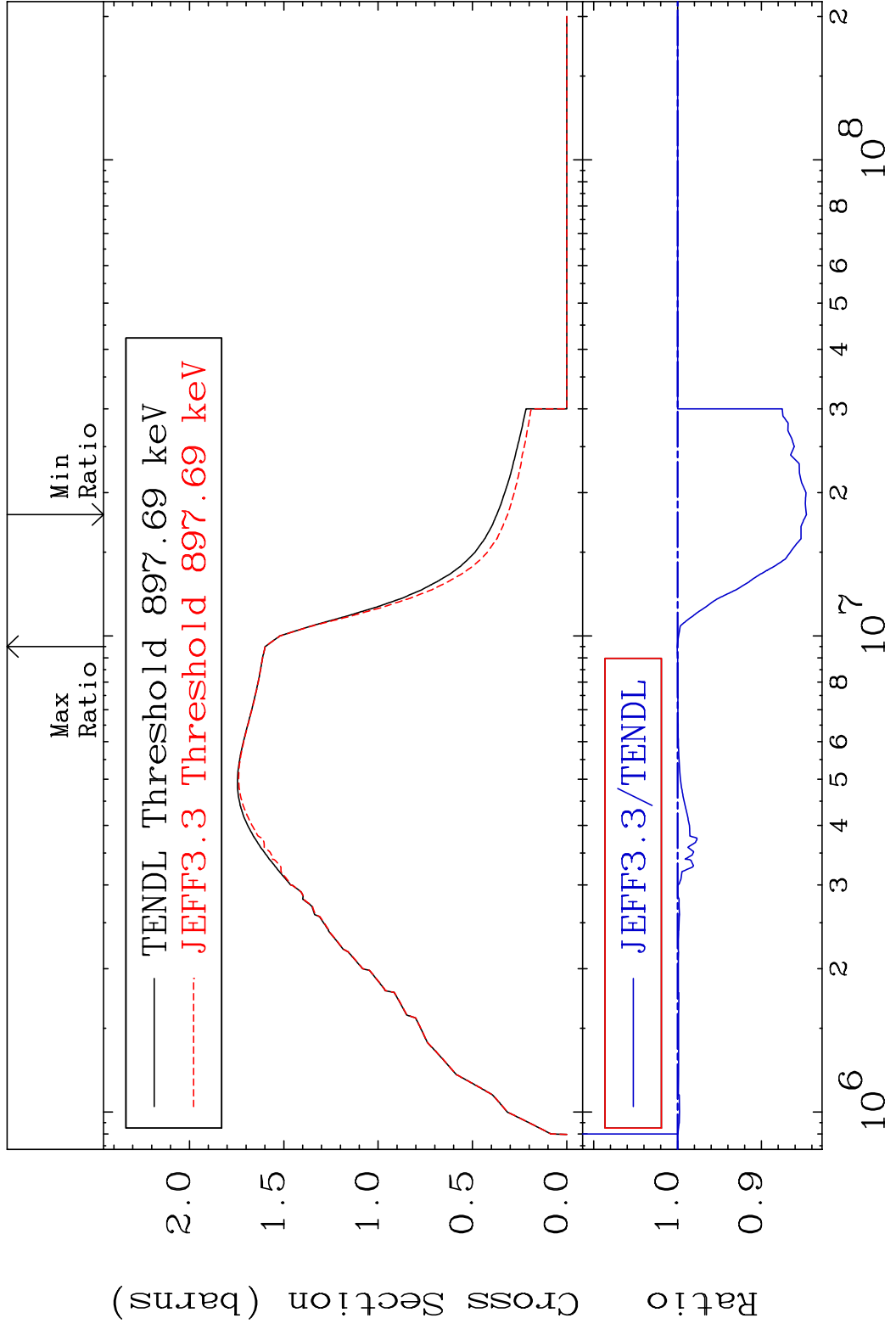
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

2

Incident Energy (eV)

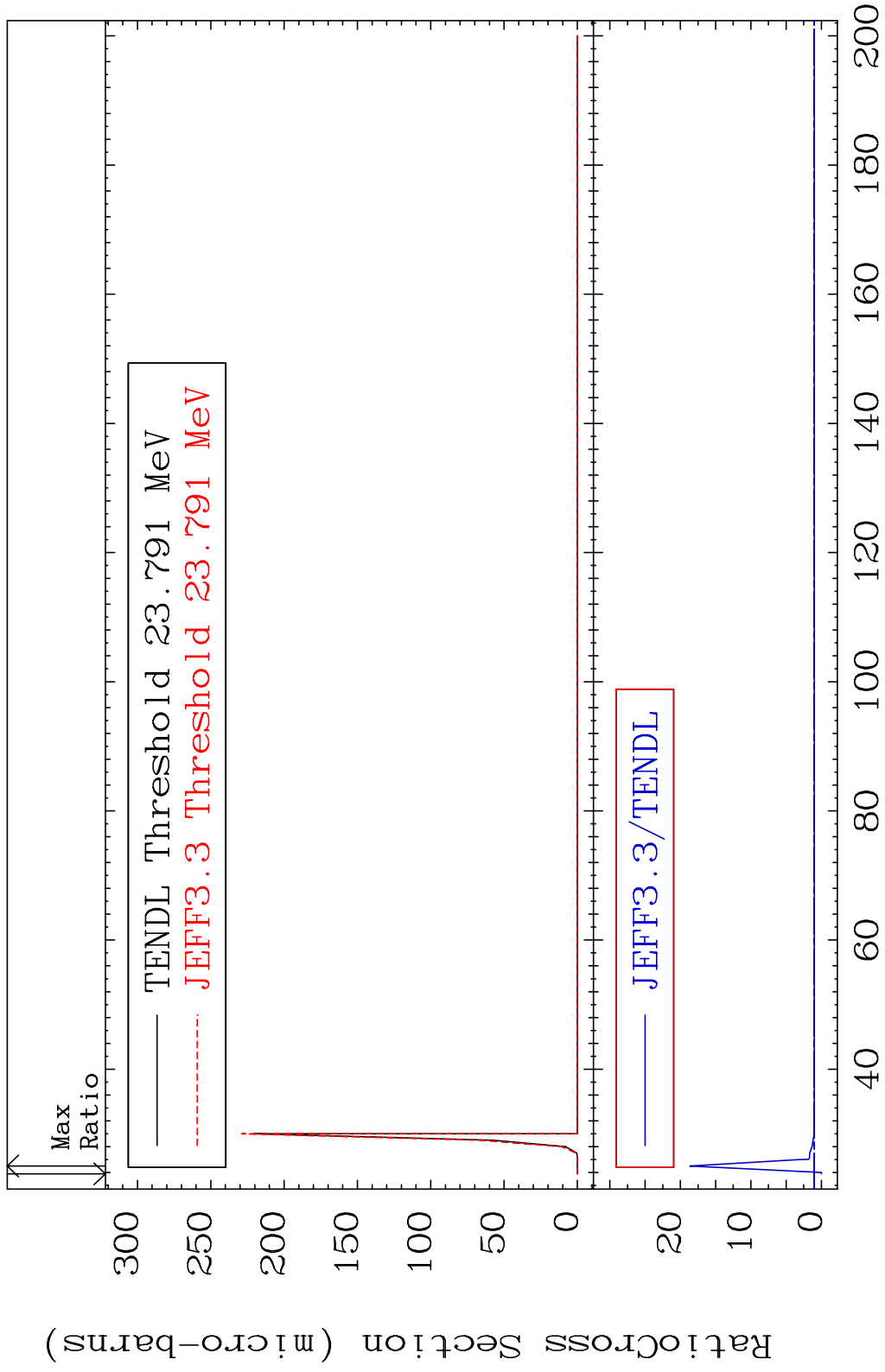
30-Zn-70

MAT 3043 Inelastic Cross Section -15.35 To 0.045 % 30-Zn-70



3 Incident Energy (eV) 30-Zn-70

MAT 3043 (n,2n) d 30-Zn-70  
 Cross Section -100.0 To 1767. %



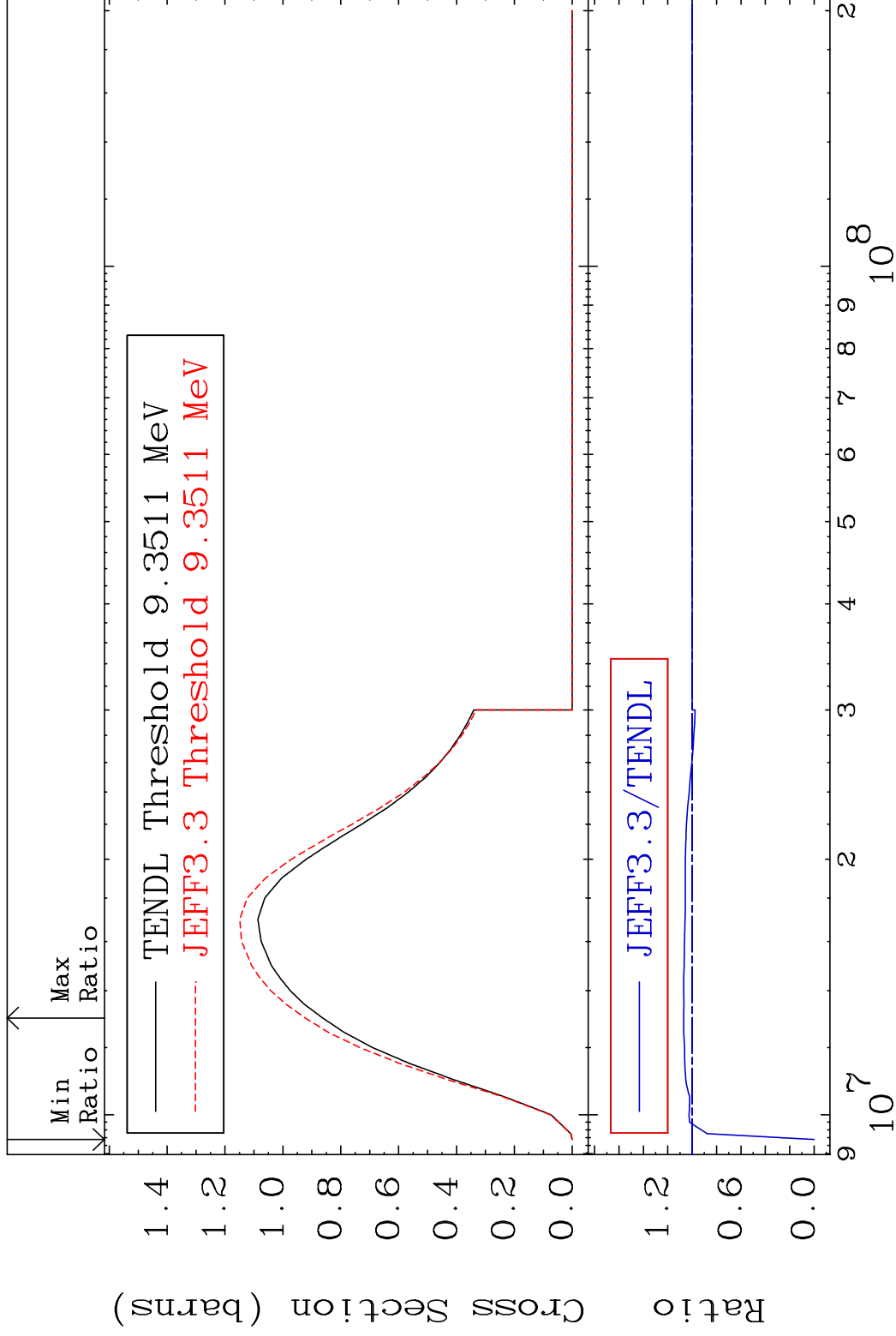
4 Incident Energy (MeV) 30-Zn-70

MAT 3043

(n,2n)

30-Zn-70

Cross Section -100.0 To 6.978 %

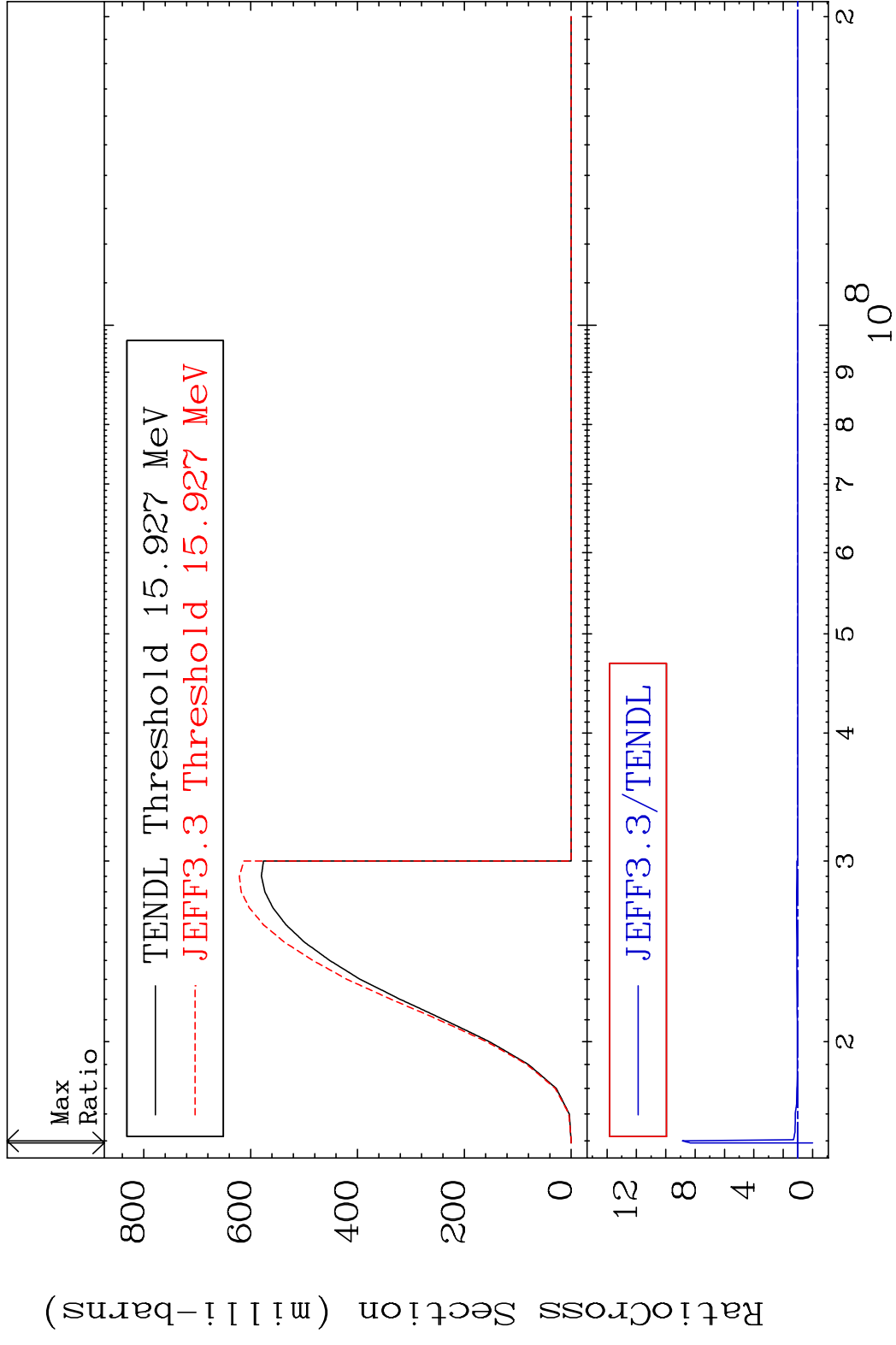


5

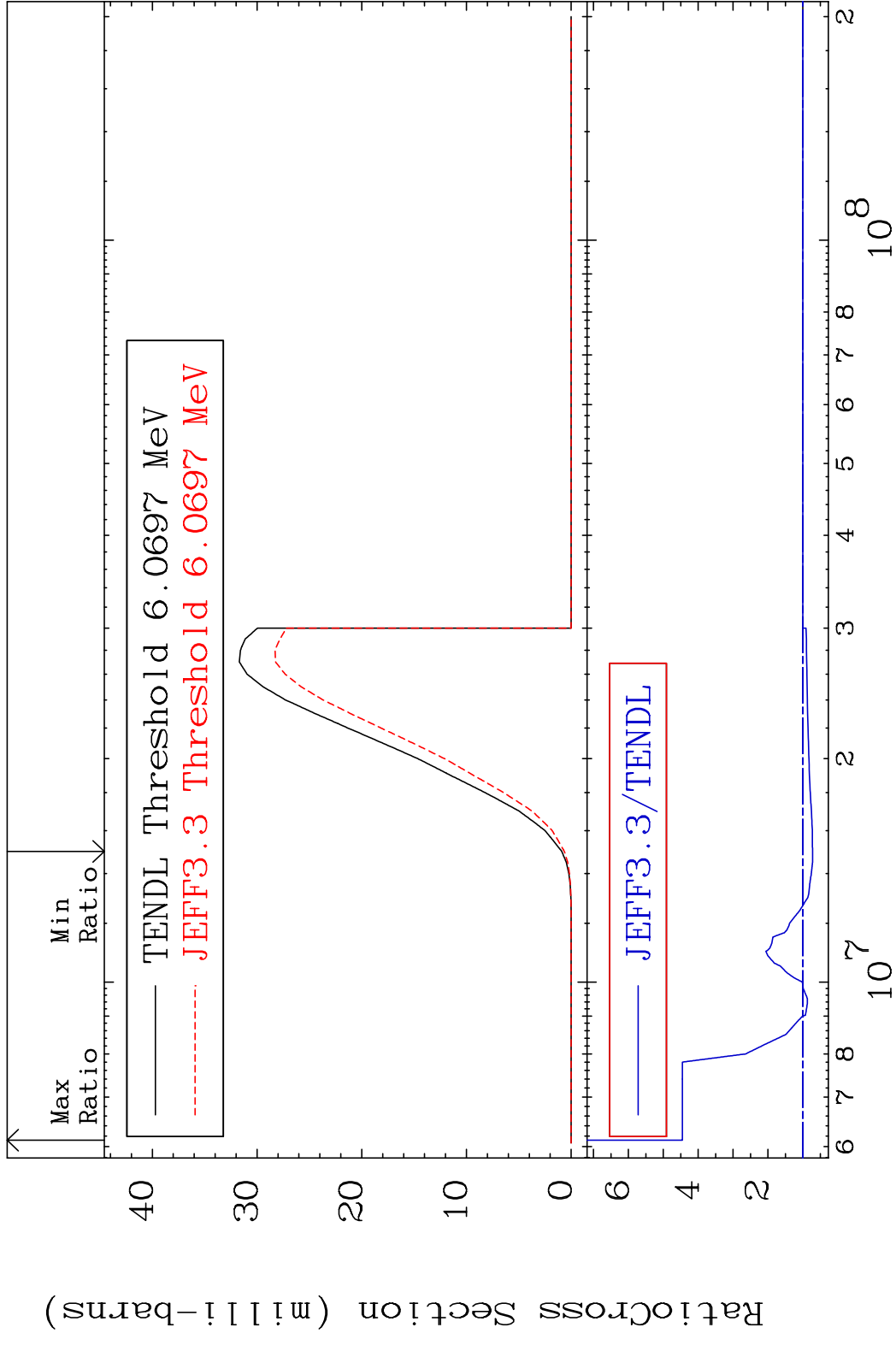
Incident Energy (eV)

30-Zn-70

MAT 3043 (n,3n) 30-Zn-70  
 Cross Section -100.0 To 787.1 %



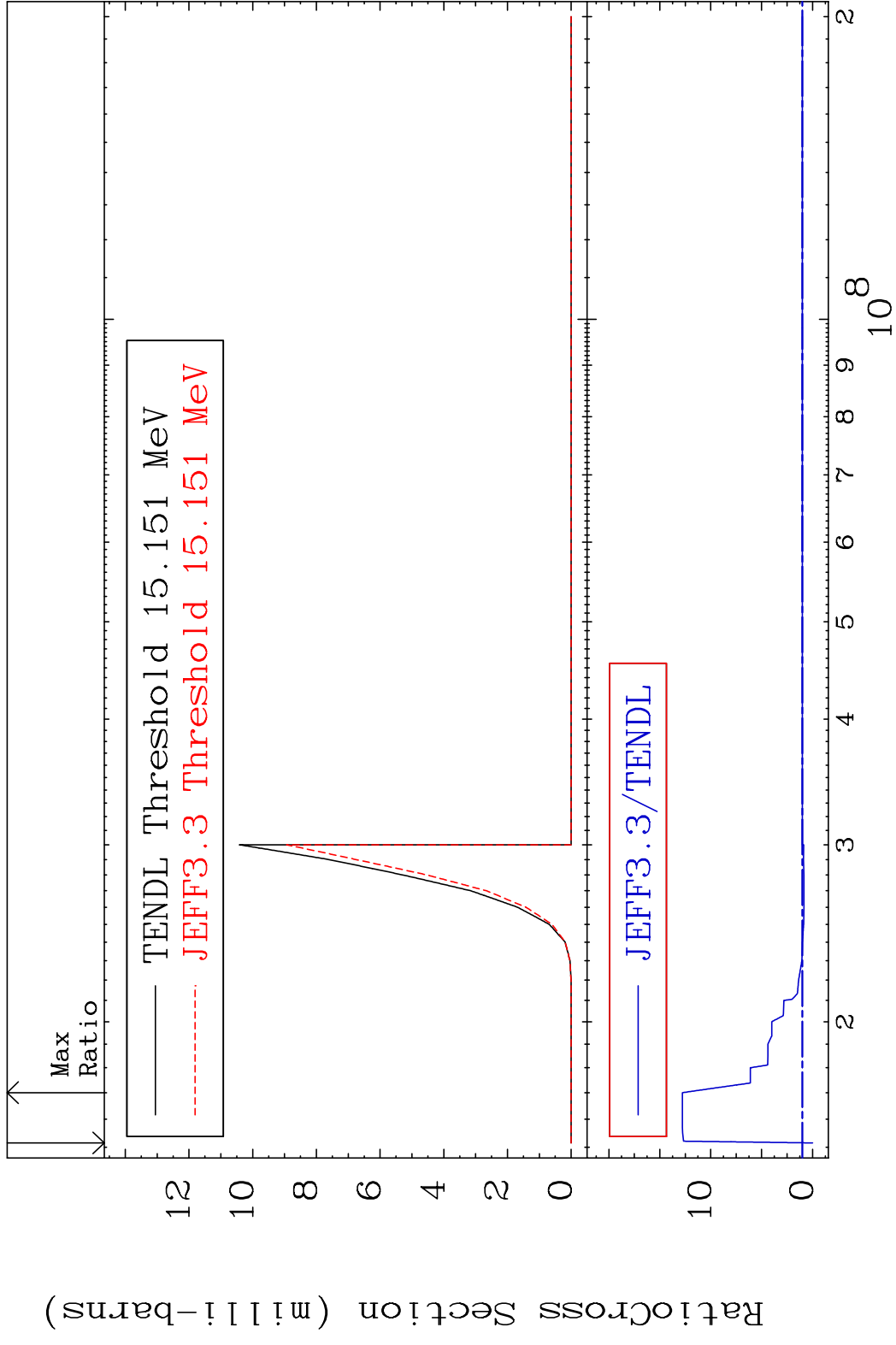
MAT 3043 (n, n')  $\alpha$  30-Zn-70  
 Cross Section -27.87 To 345.4 %



7 6 7 8 10<sup>7</sup> 2 3 4 5 6 7 8 10<sup>8</sup> 2

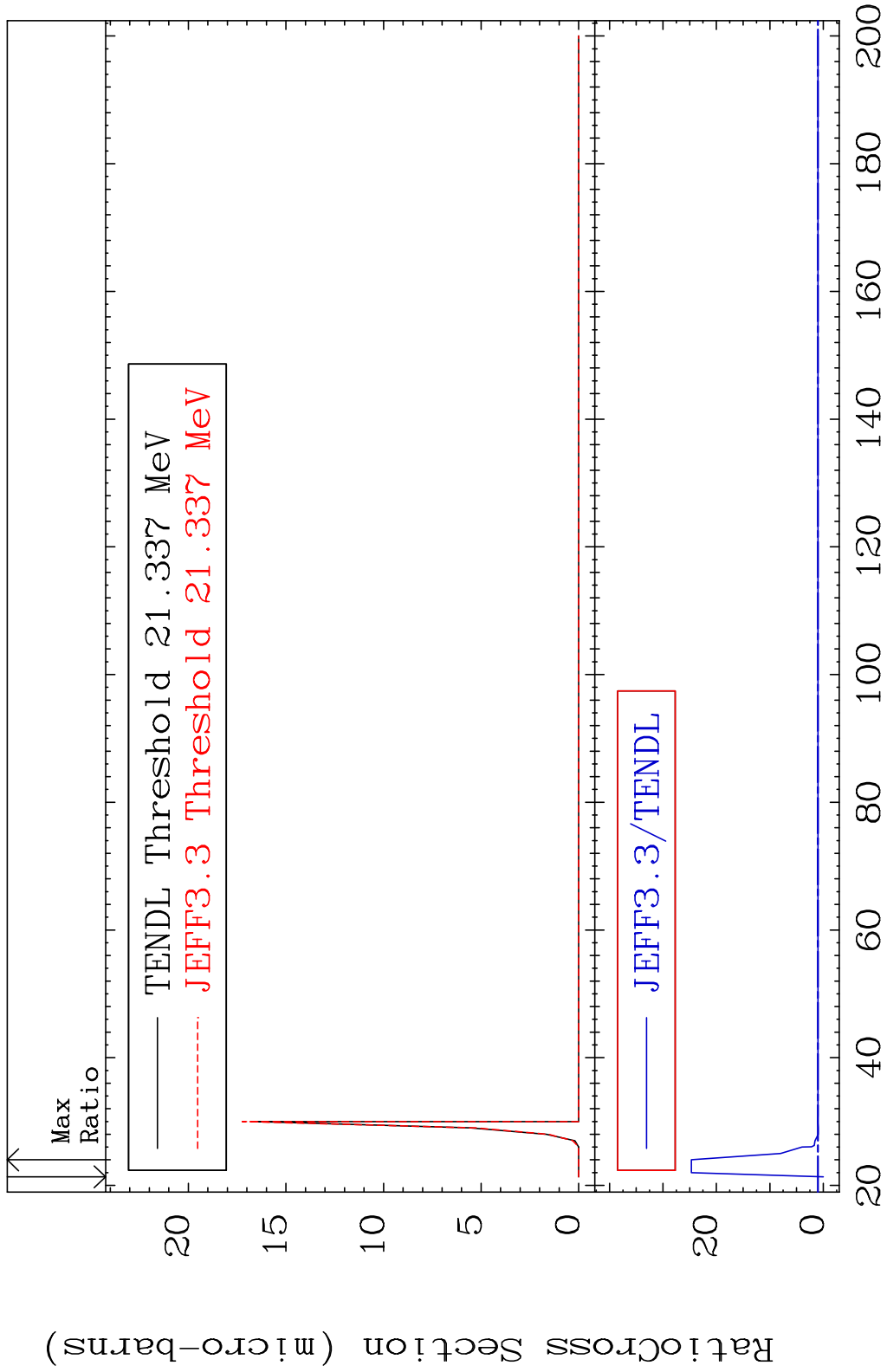


MAT 3043 (n,2n)  $\alpha$  30-Zn-70  
 Cross Section -100.0 To 1178. %



8 Incident Energy (eV) 30-Zn-70

MAT 3043 (n,3n)  $\alpha$  30-Zn-70  
 Cross Section -100.0 To 2369. %

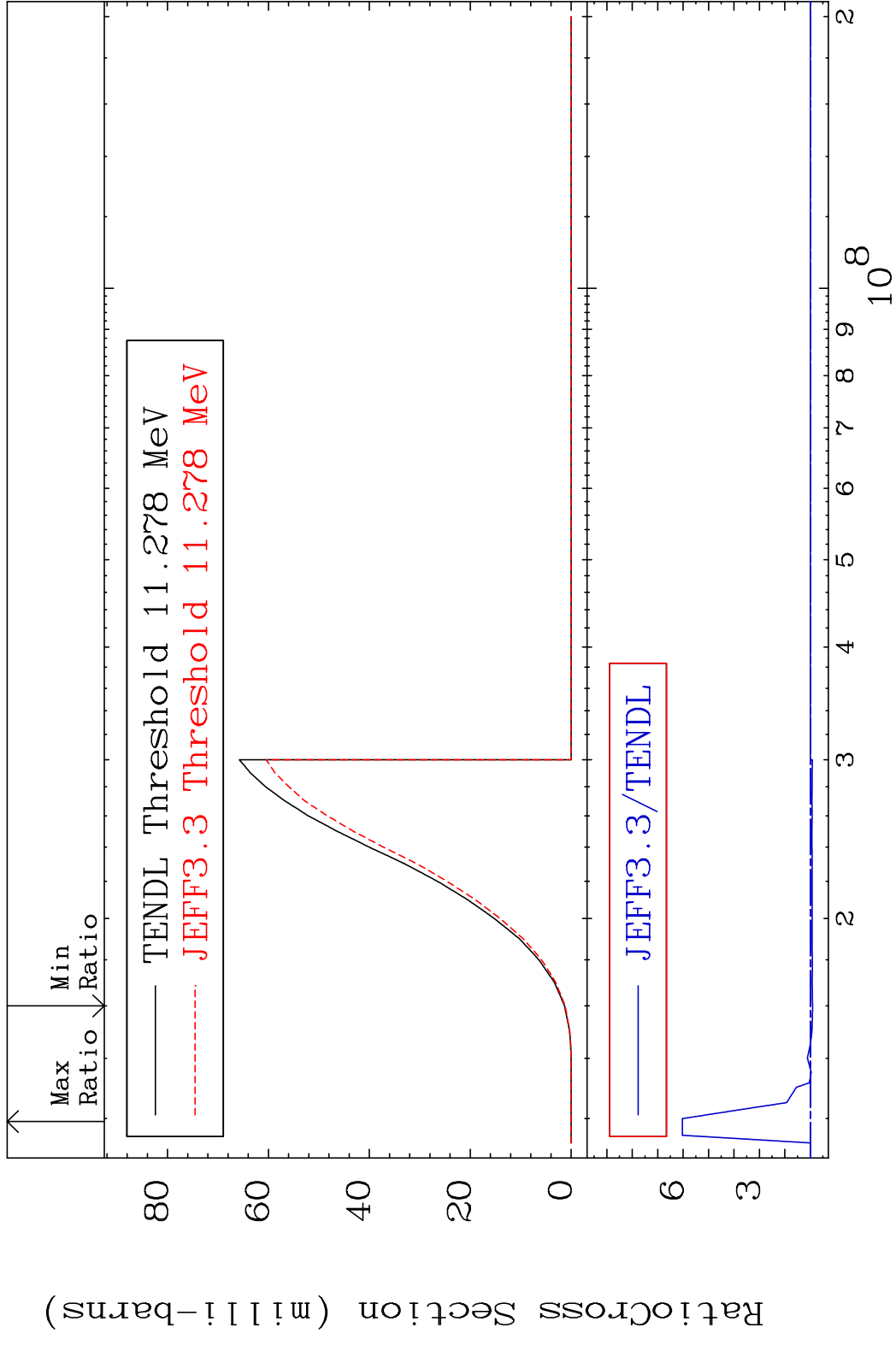


MAT 3043

(n, n') p

30-Zn-70

Cross Section -9.030 To 503.0 %

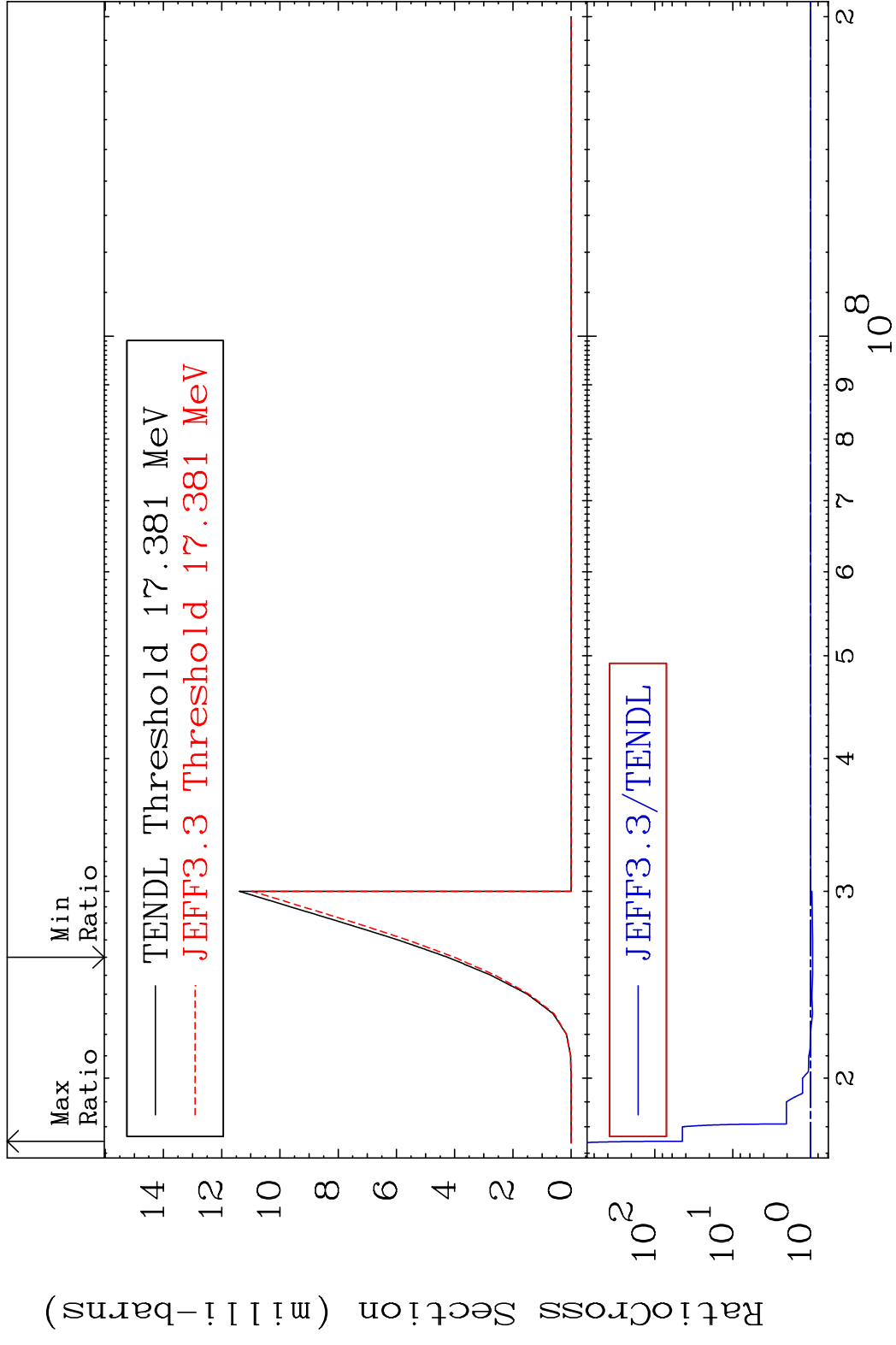


10

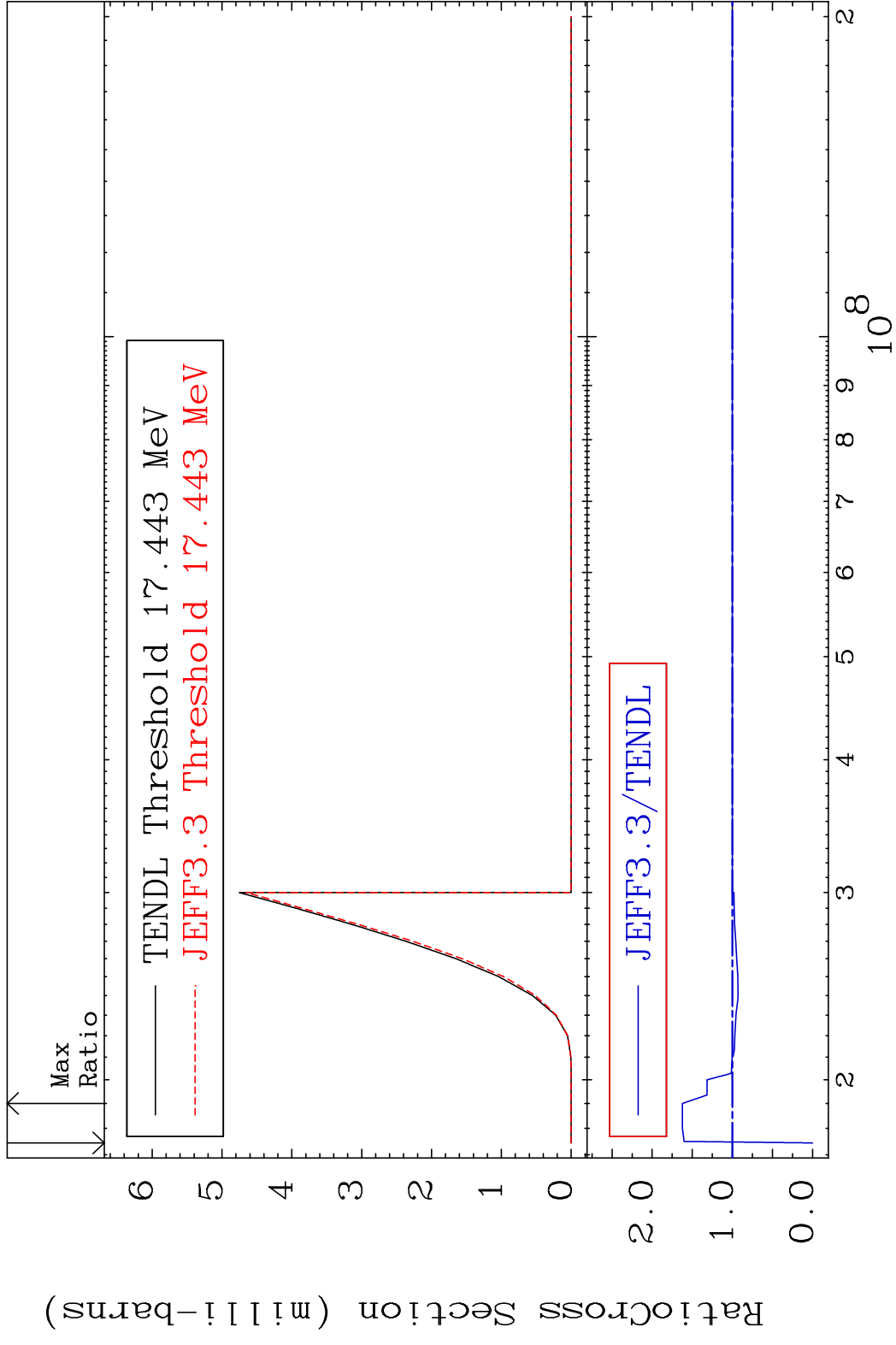
Incident Energy (eV)

30-Zn-70

MAT 3043 (n, n') d 30-Zn-70  
 Cross Section -5.517 To 4325. %



MAT 3043 (n, n') t 30-Zn-70  
 Cross Section -100.0 To 62.36 %

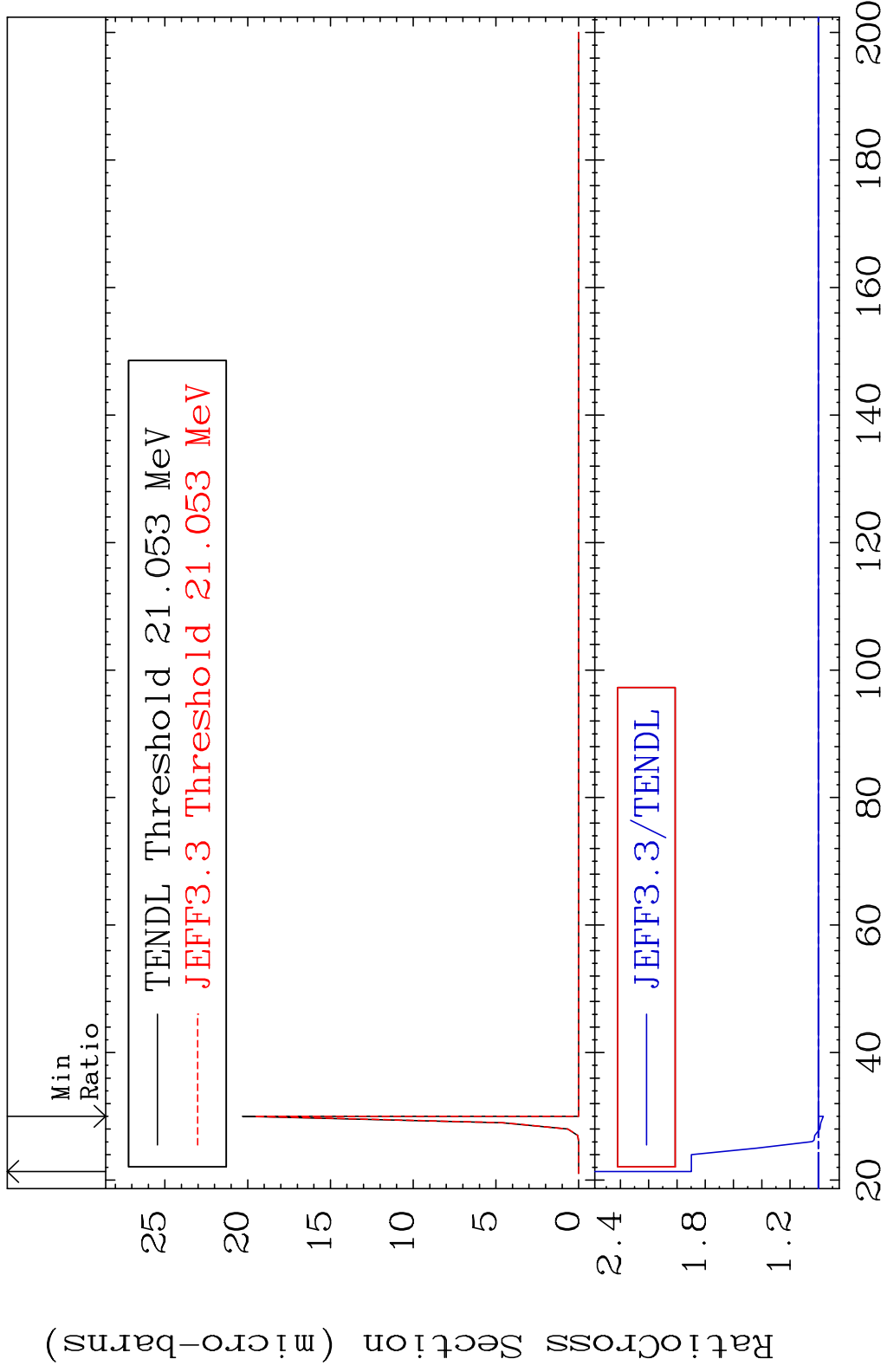


MAT 3043

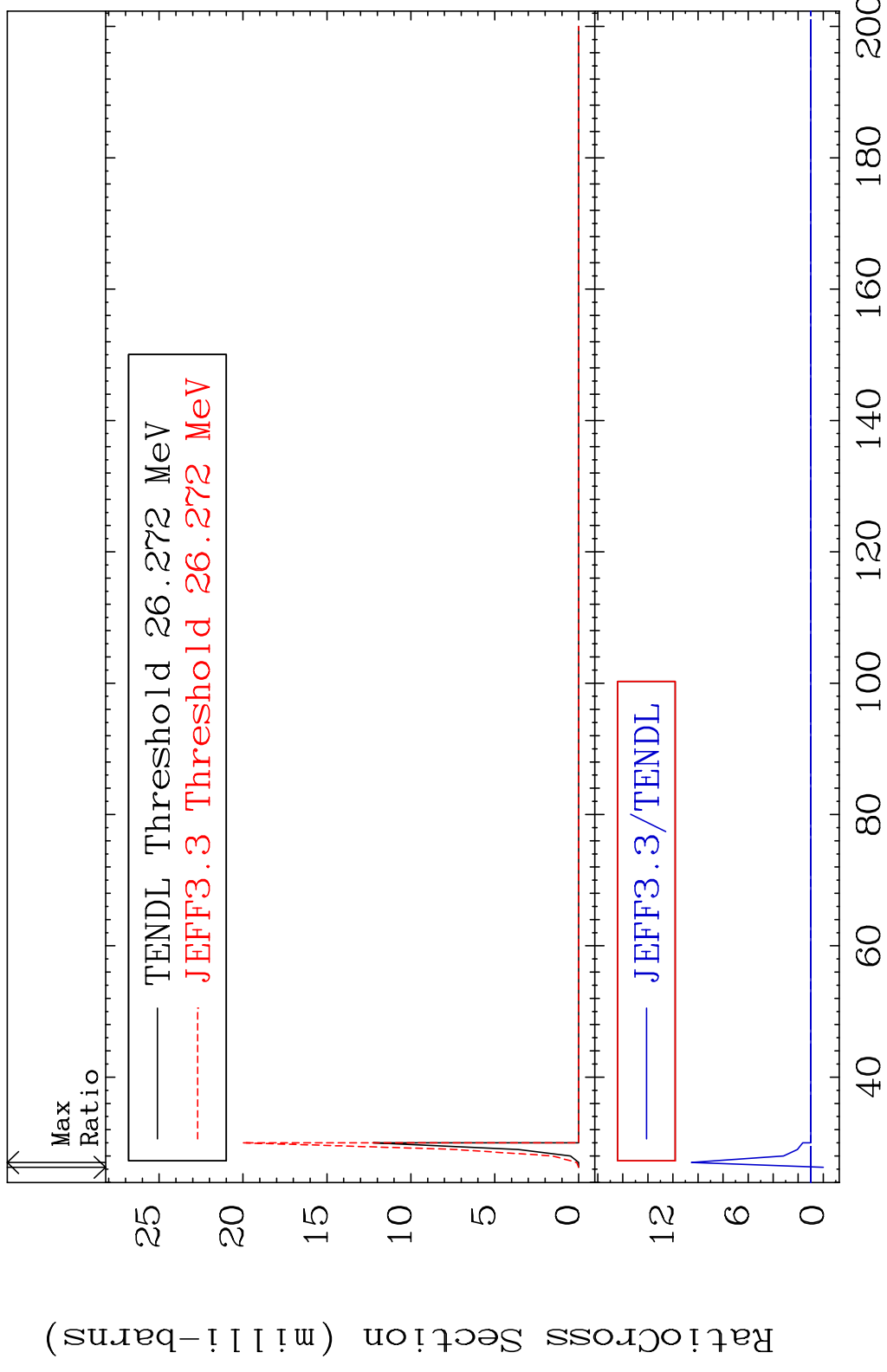
(n,n') He-3

30-Zn-70

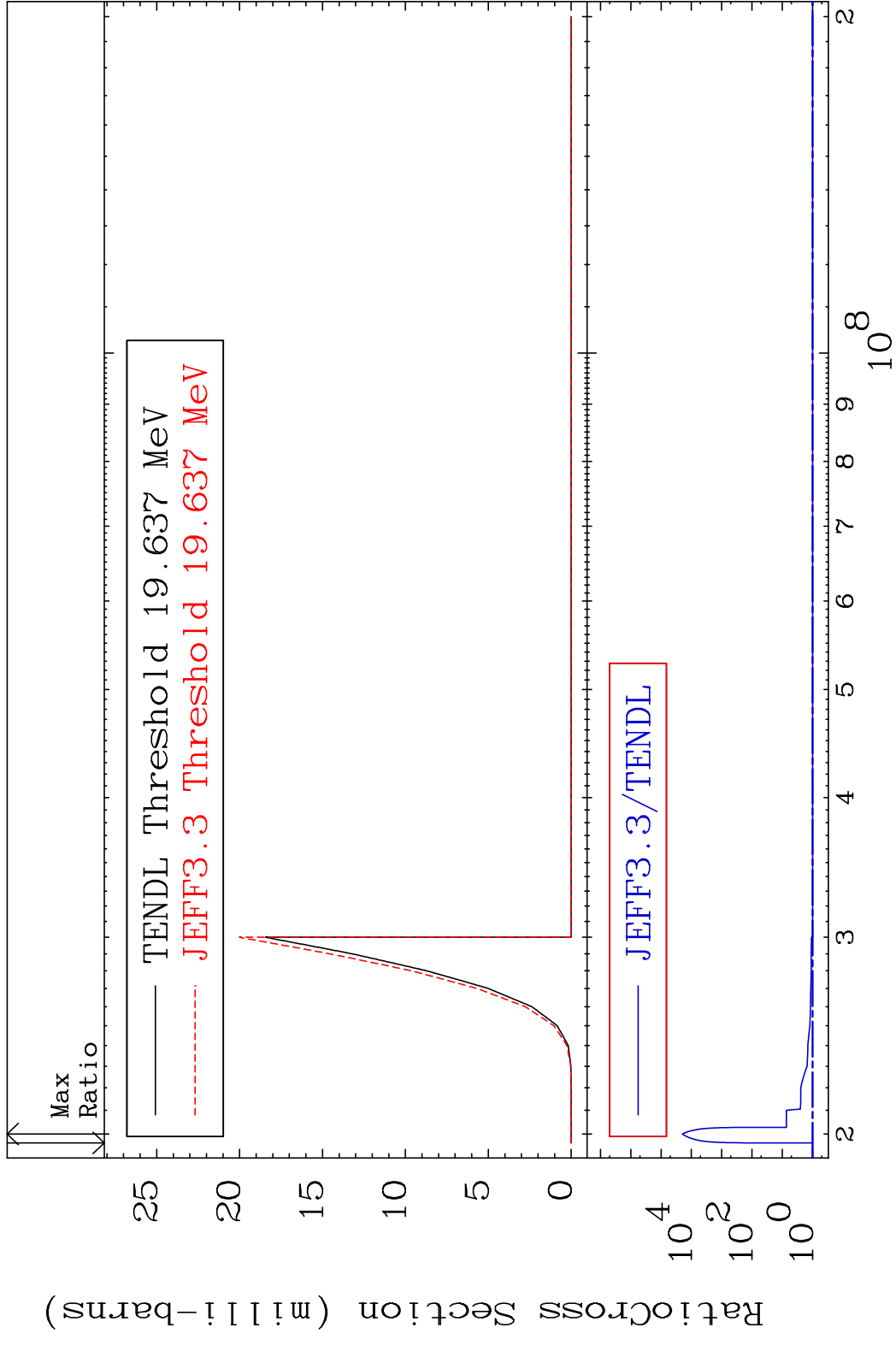
Cross Section -3.471 To 89.84 %



MAT 3043 (n,4n) 30-Zn-70  
 Cross Section -100.0 To 953.1 %



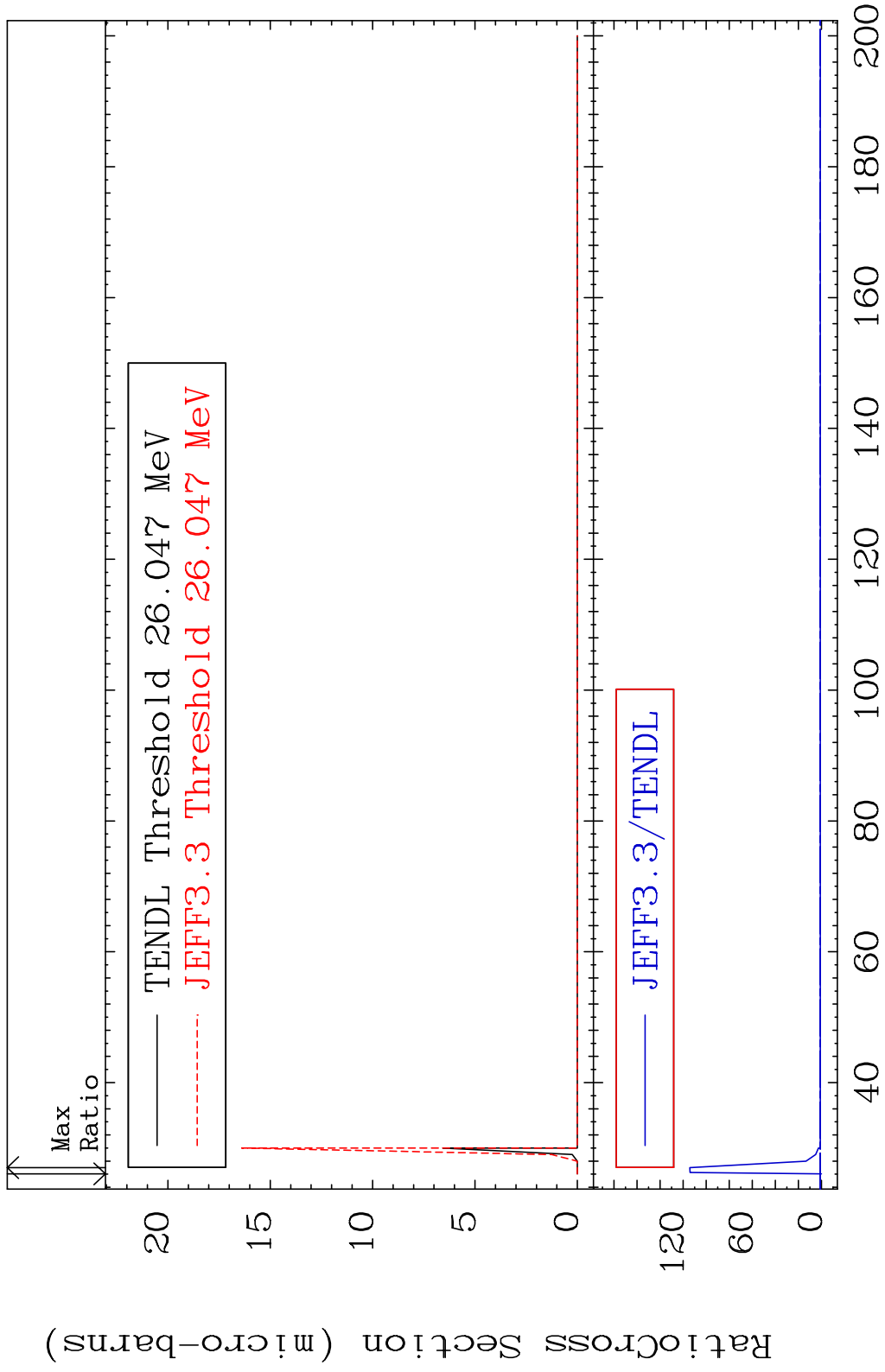
MAT 3043 (n,2n) p 30-Zn-70  
 Cross Section 0.000 To 9999. %



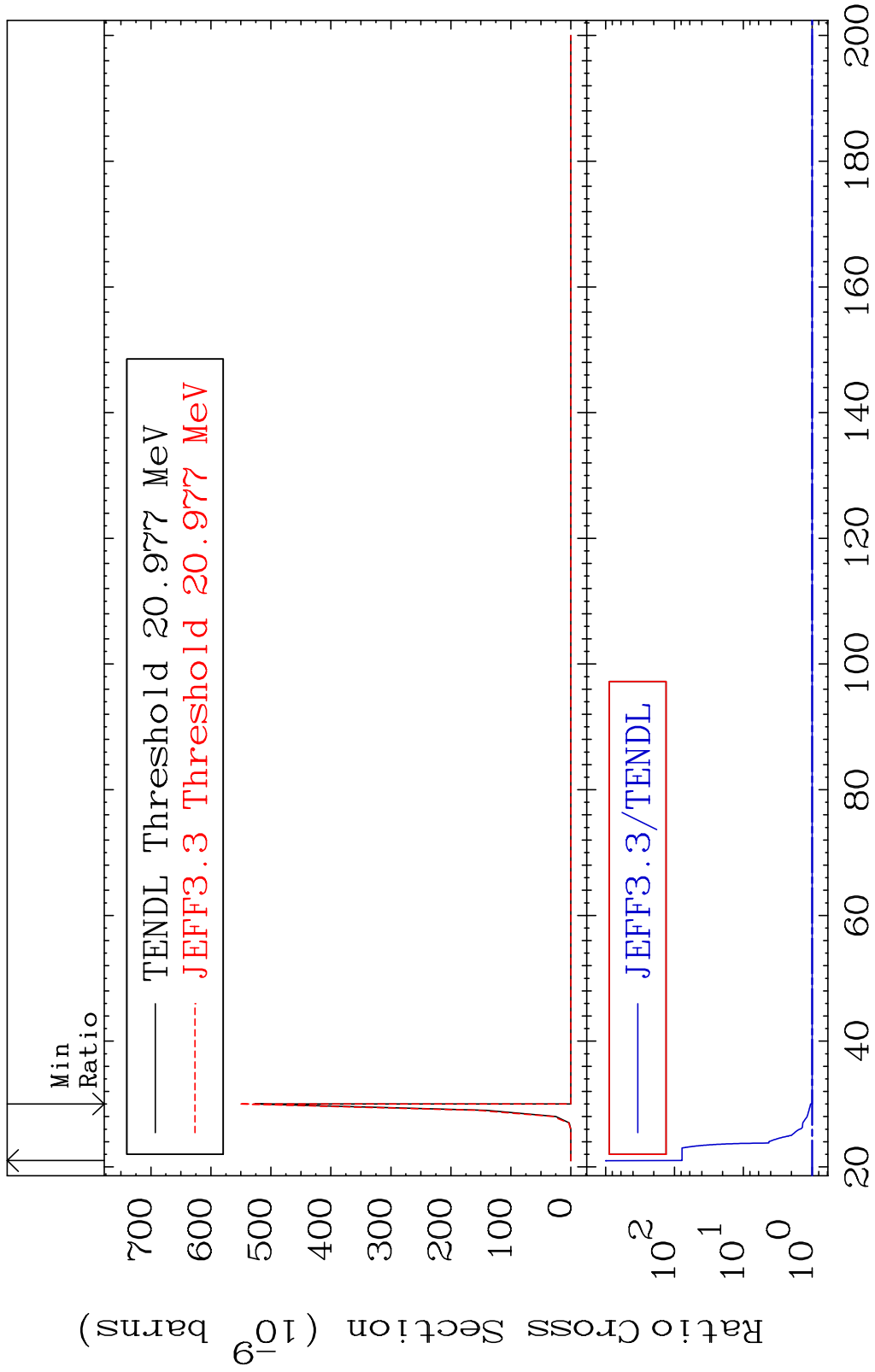
15 Incident Energy (eV) 30-Zn-70



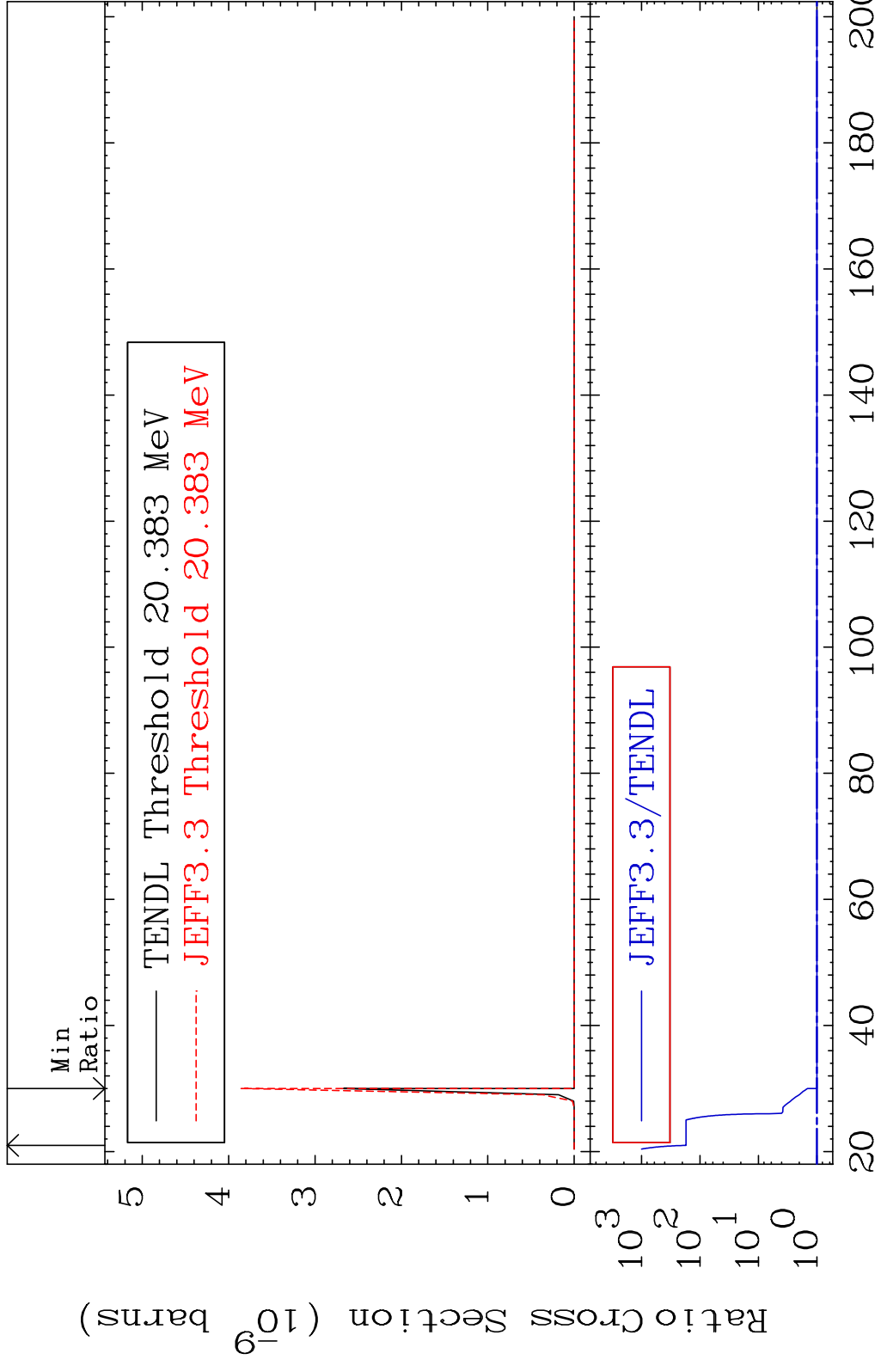
MAT 3043 (n,3n) p 30-Zn-70  
 Cross Section -100.0 To 9999. %



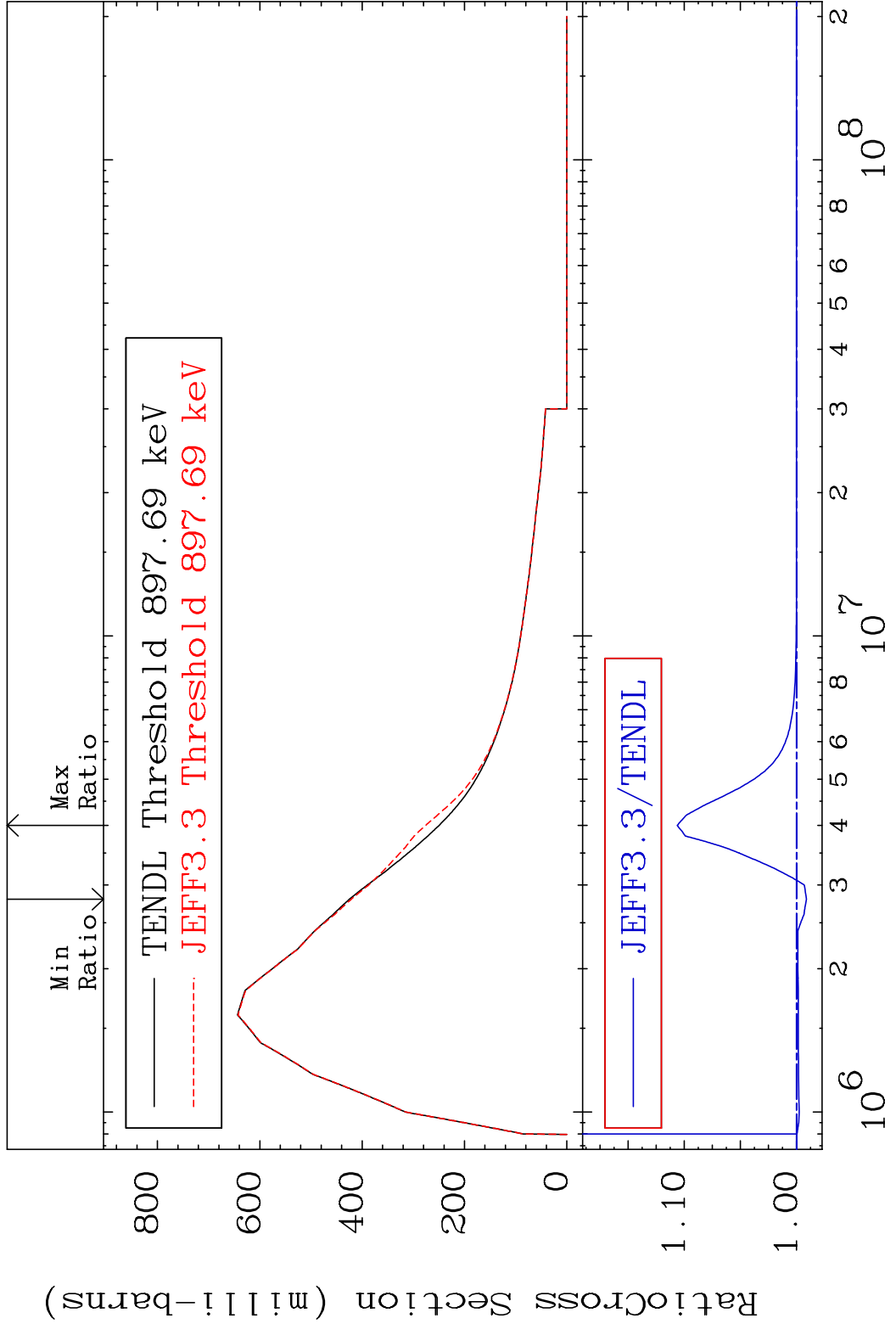
MAT 3043 (n,2n) p 30-Zn-70  
 Cross Section 0.000 To 7682. %



MAT 3043 (n,n') p α 30-Zn-70  
 Cross Section 0.000 To 9999. %

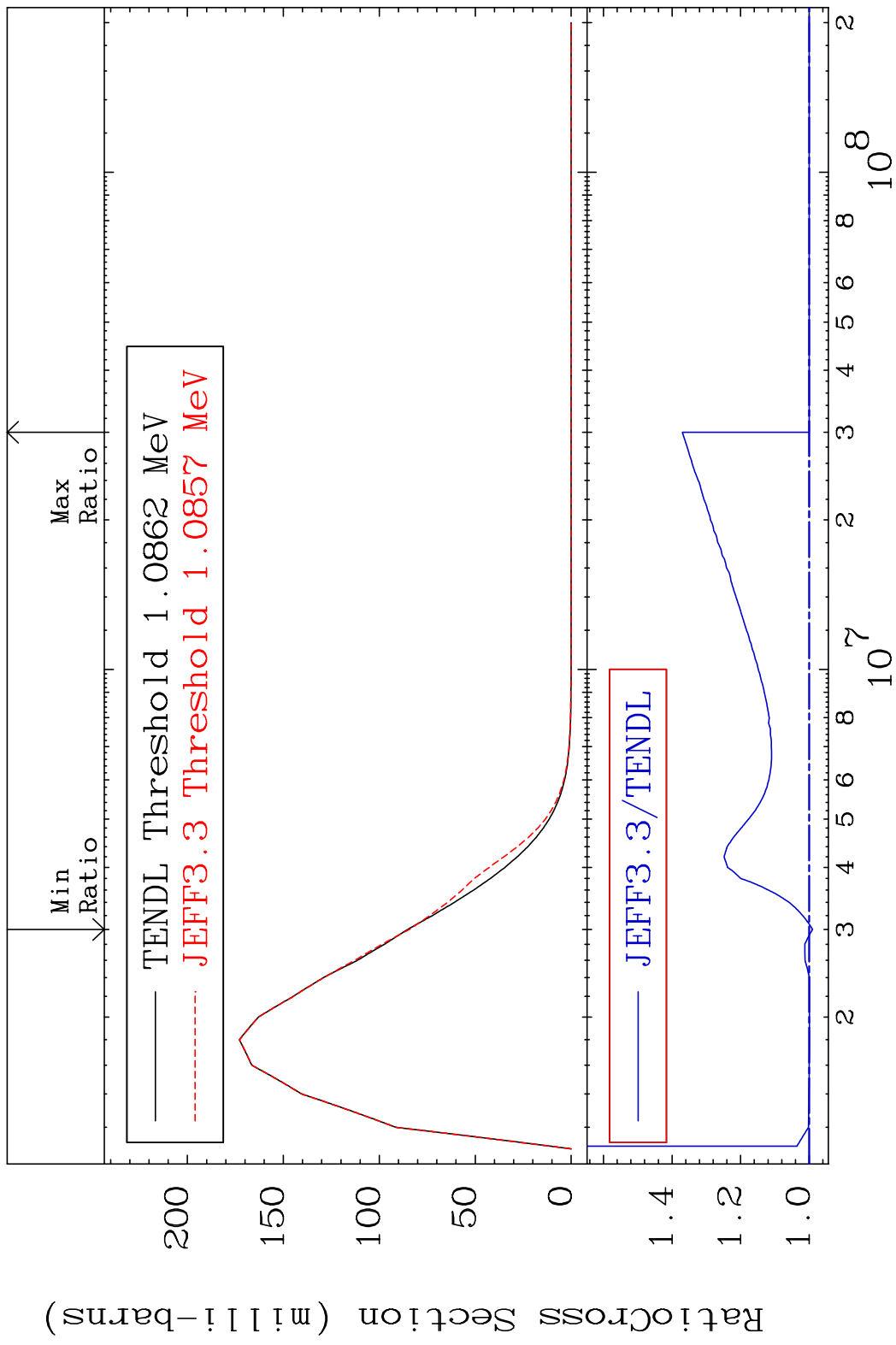


MAT 3043 MT= 51 (n, n') Level 30-Zn-70  
 Cross Section -0.874 To 10.63 %

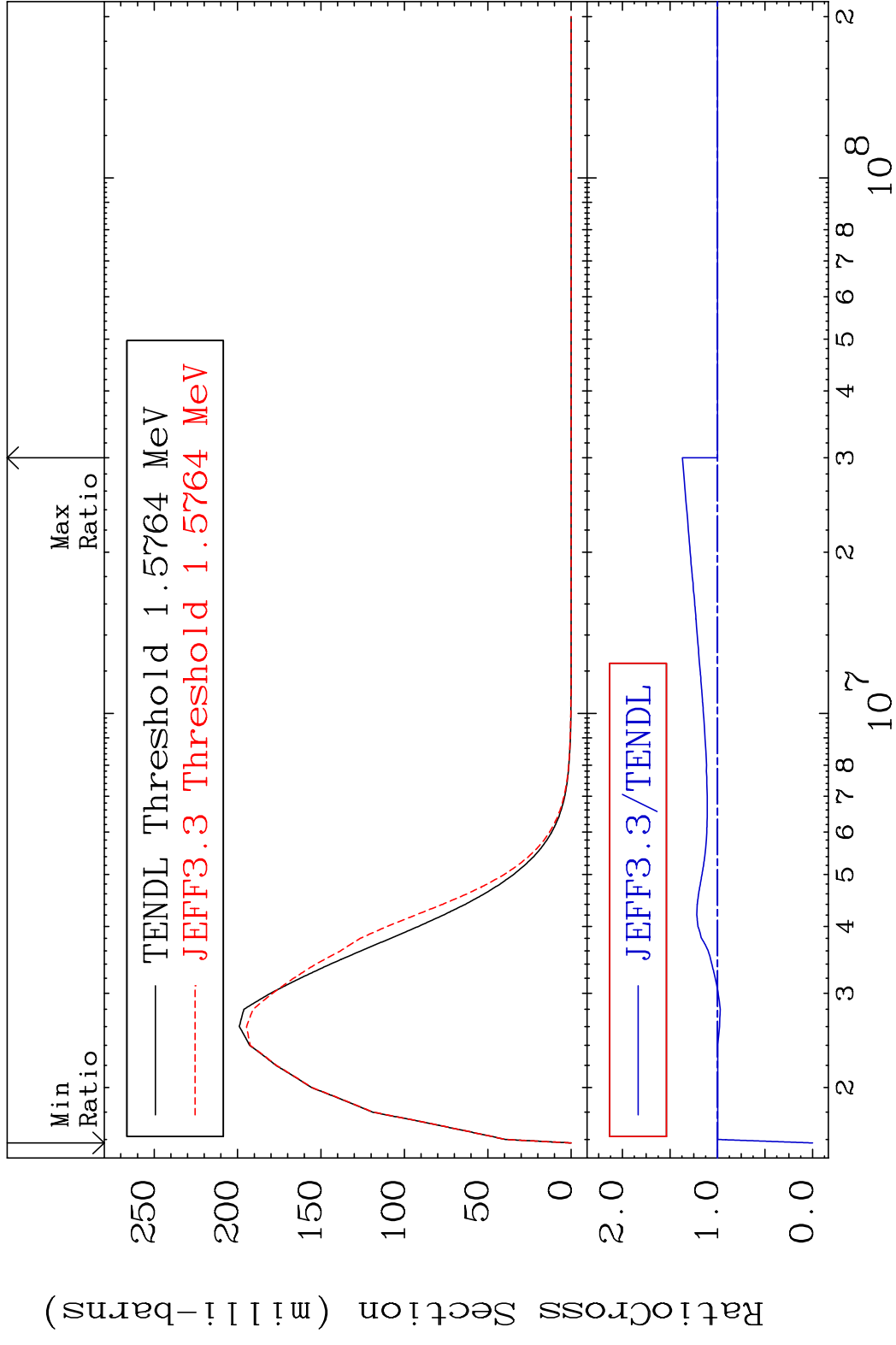


19 30-Zn-70

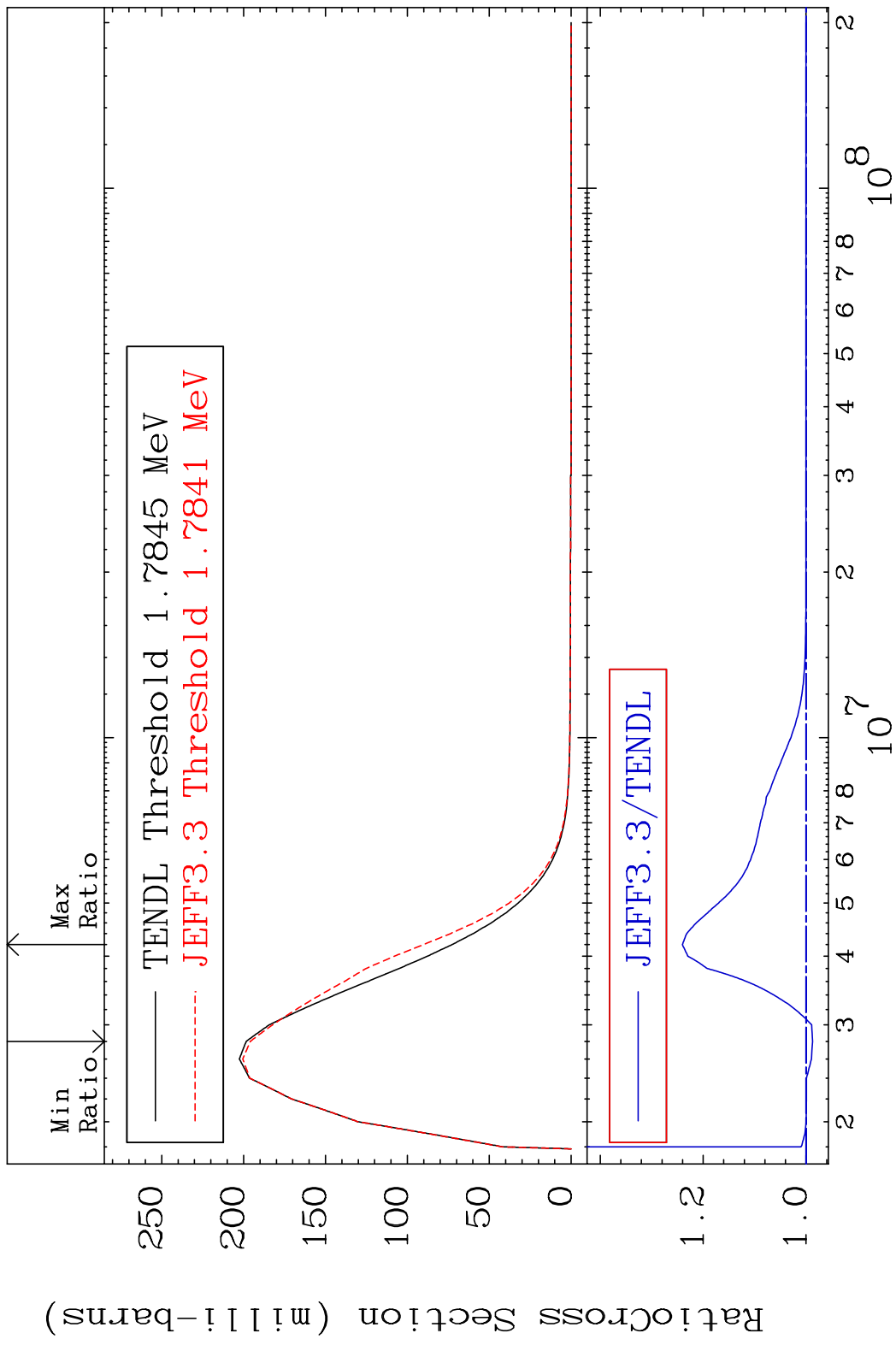
MAT 3043 MT= 52 (n, n') Level 30-Zn-70  
 Cross Section -0.984 To 37.00 %



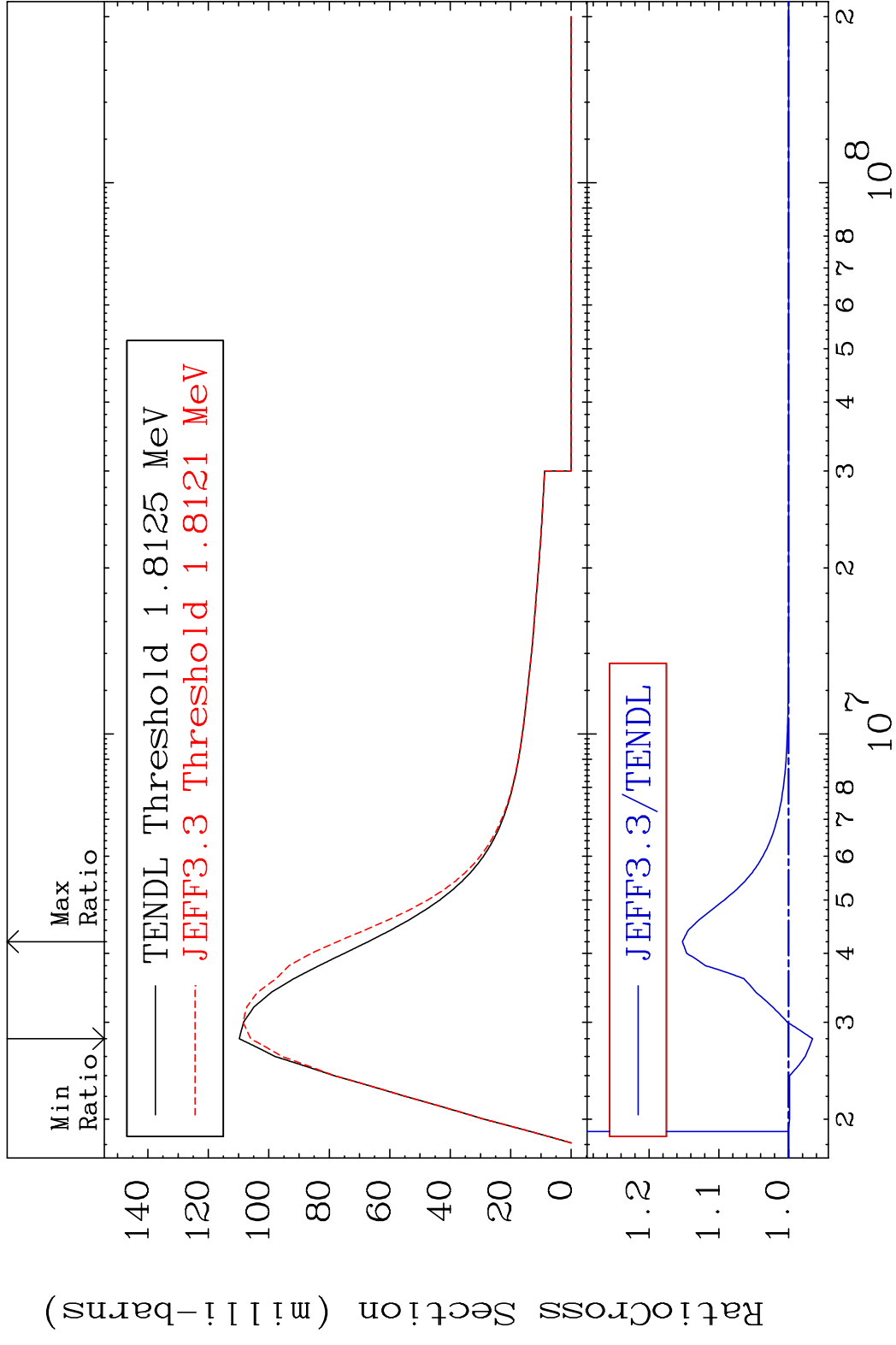
MAT 3043 MT= 53 (n, n') Level 30-Zn-70  
 Cross Section -100.0 To 36.99 %



MAT 3043 MT= 54 (n, n') Level 30-Zn-70  
 Cross Section -1.259 To 24.05 %

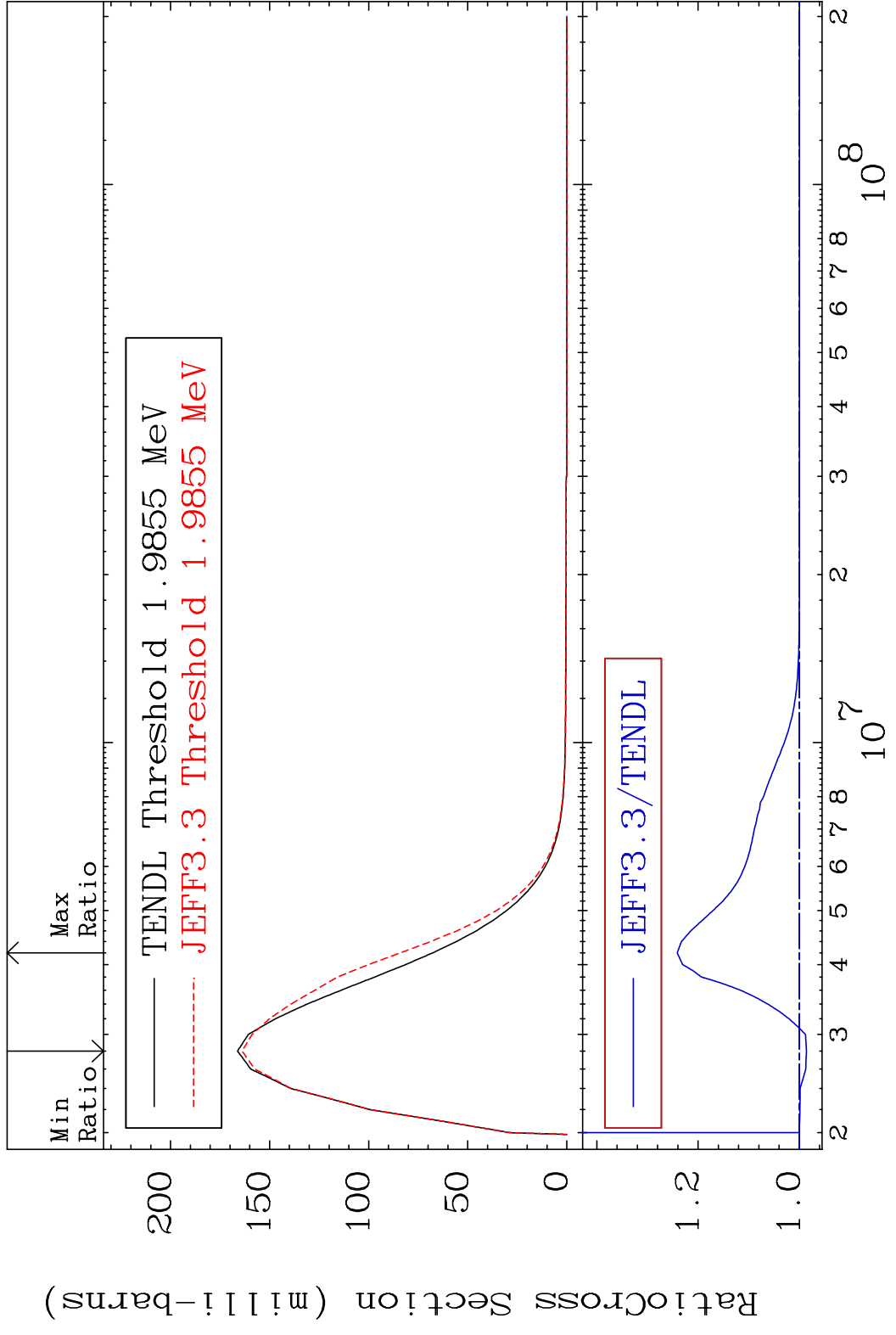


MAT 3043 MT= 55 (n,n') Level 30-Zn-70  
 Cross Section -3.434 To 15.22 %

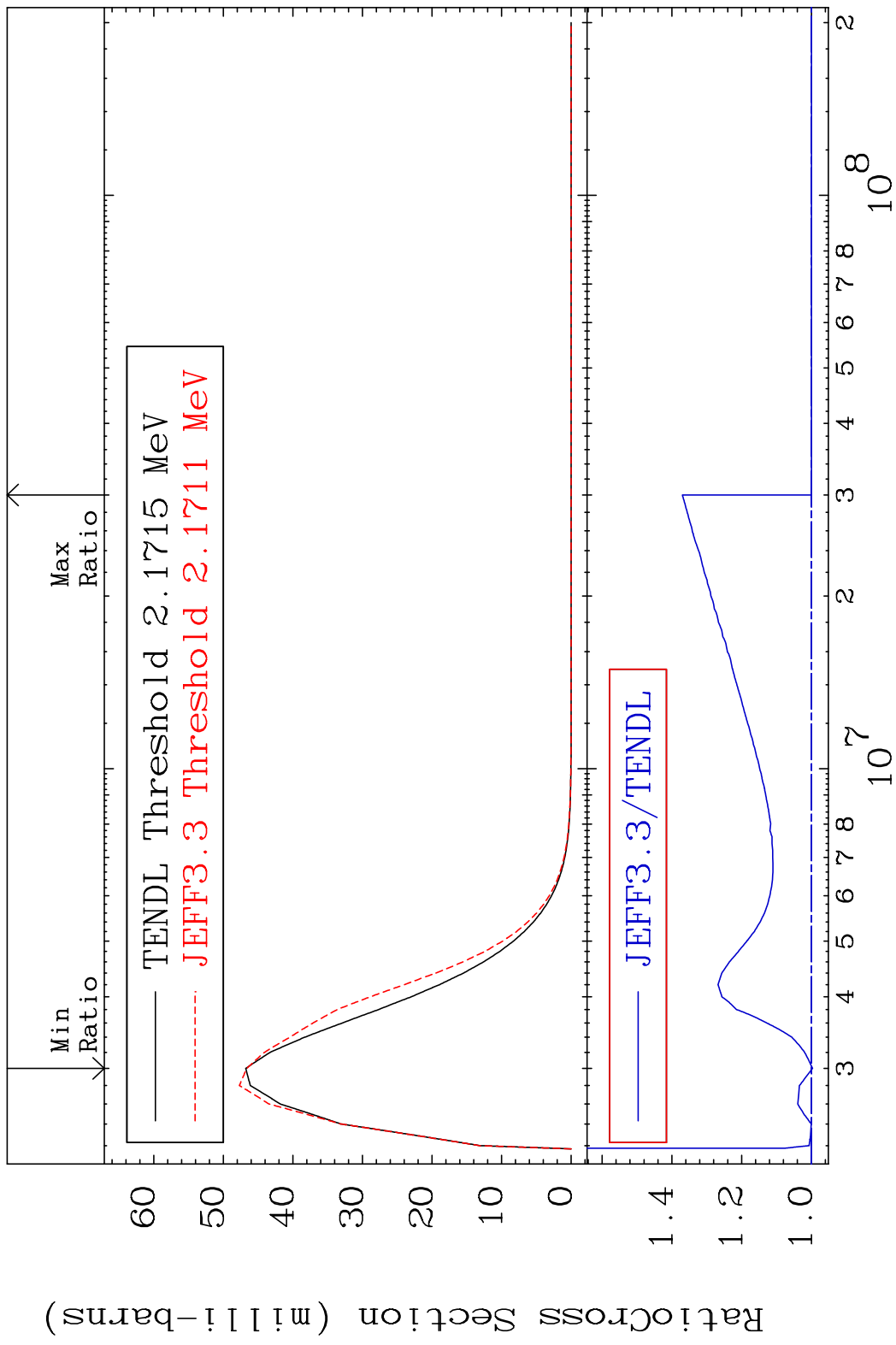




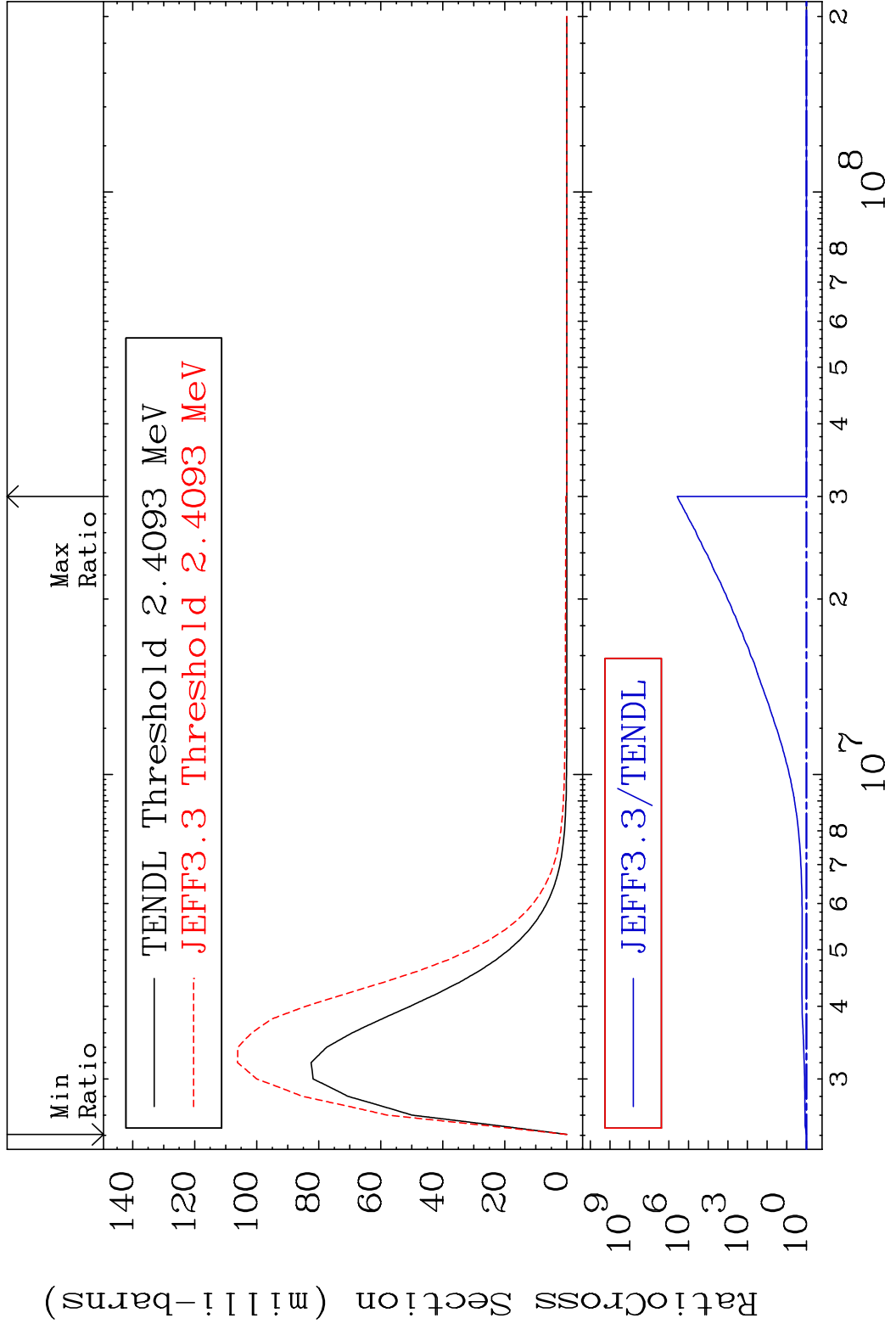
MAT 3043 MT= 56 (n,n') Level 30-Zn-70  
 Cross Section -1.382 To 24.14 %



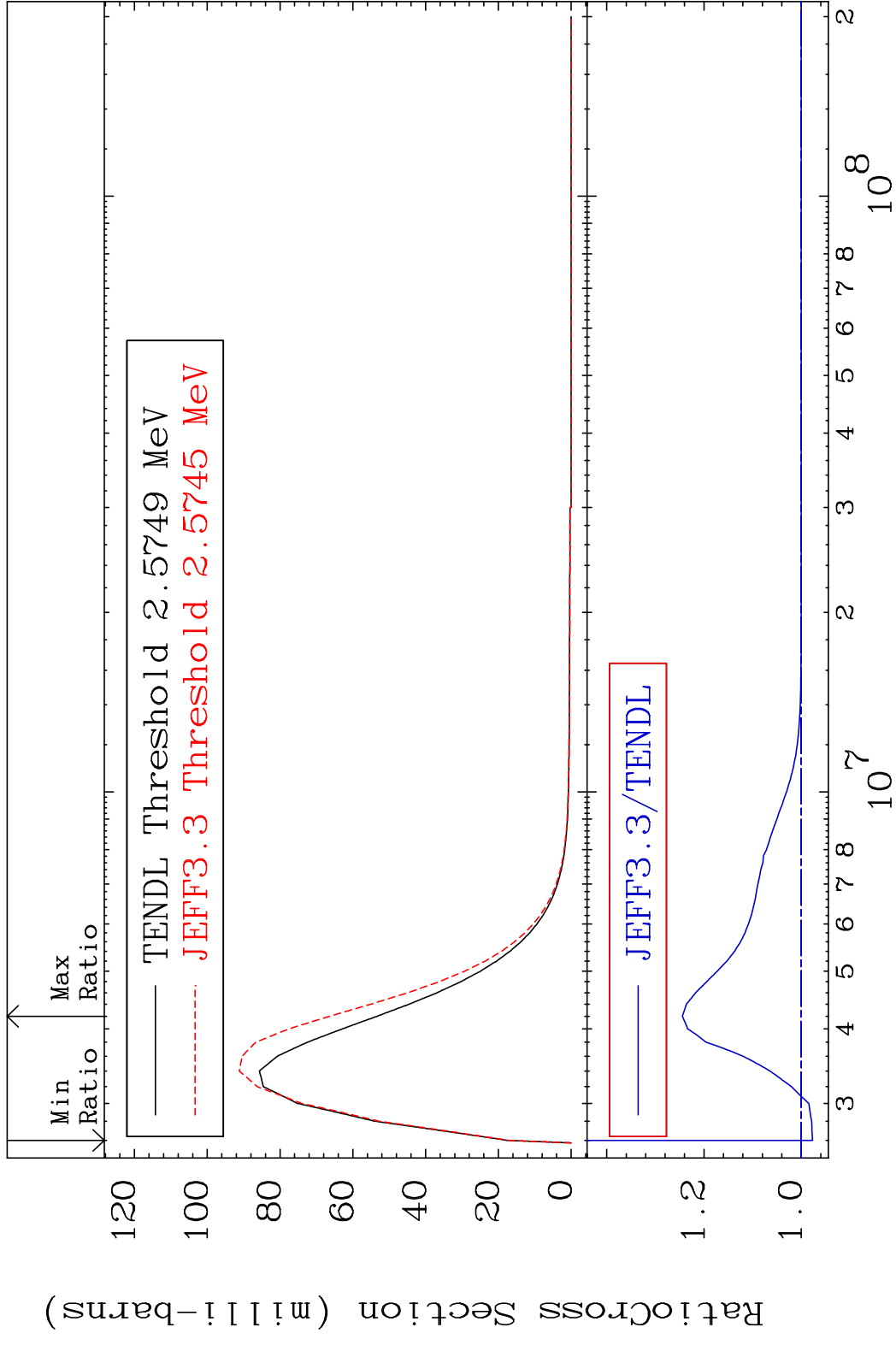
MAT 3043 MT= 57 (n, n') Level 30-Zn-70  
 Cross Section -0.335 To 37.00 %



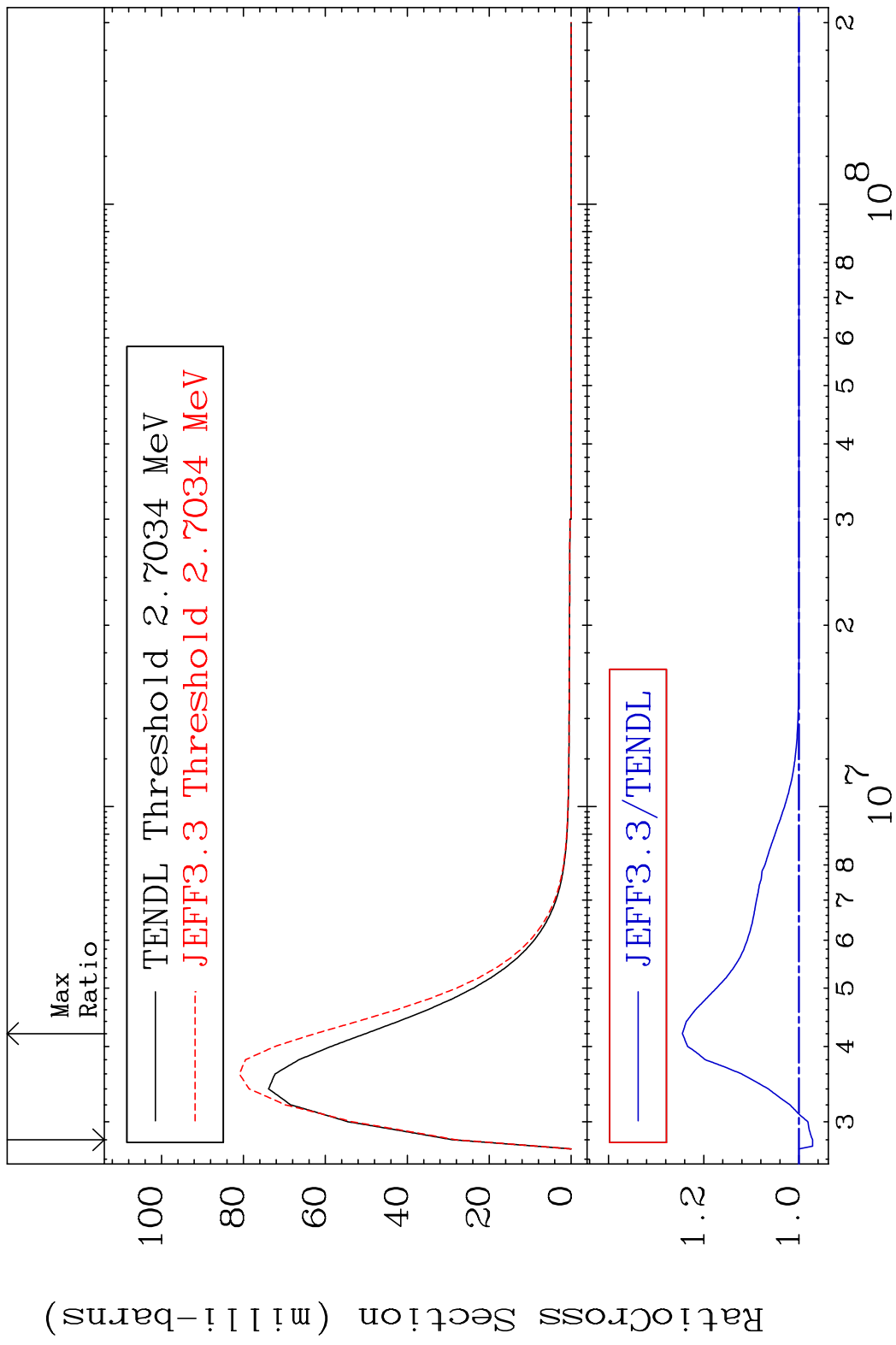
MAT 3043 MT= 58 (n, n') Level 30-Zn-70  
 Cross Section 0.000 To 9999. %



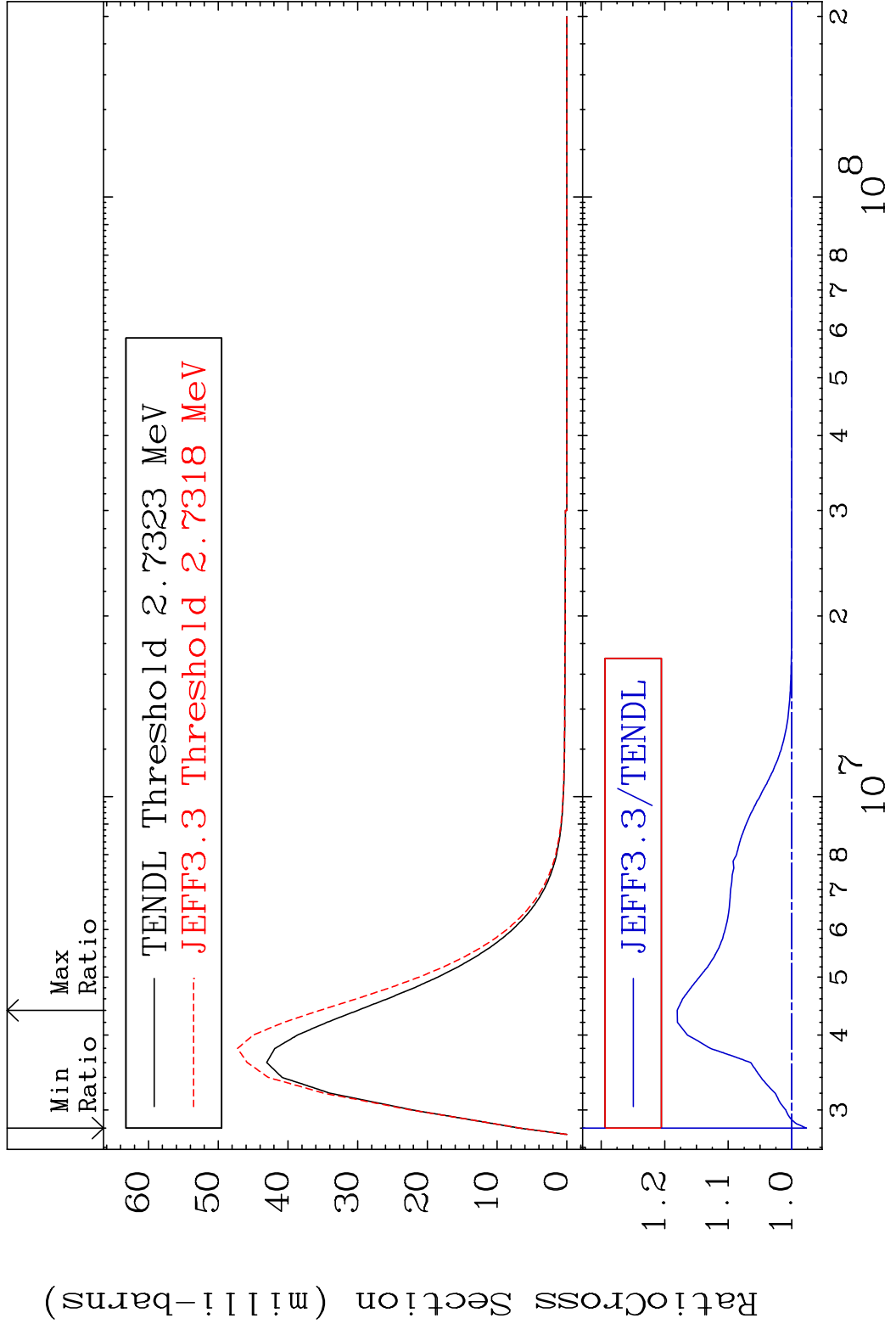
MAT 3043 MT= 59 (n, n') Level 30-Zn-70  
 Cross Section -2.324 To 24.45 %



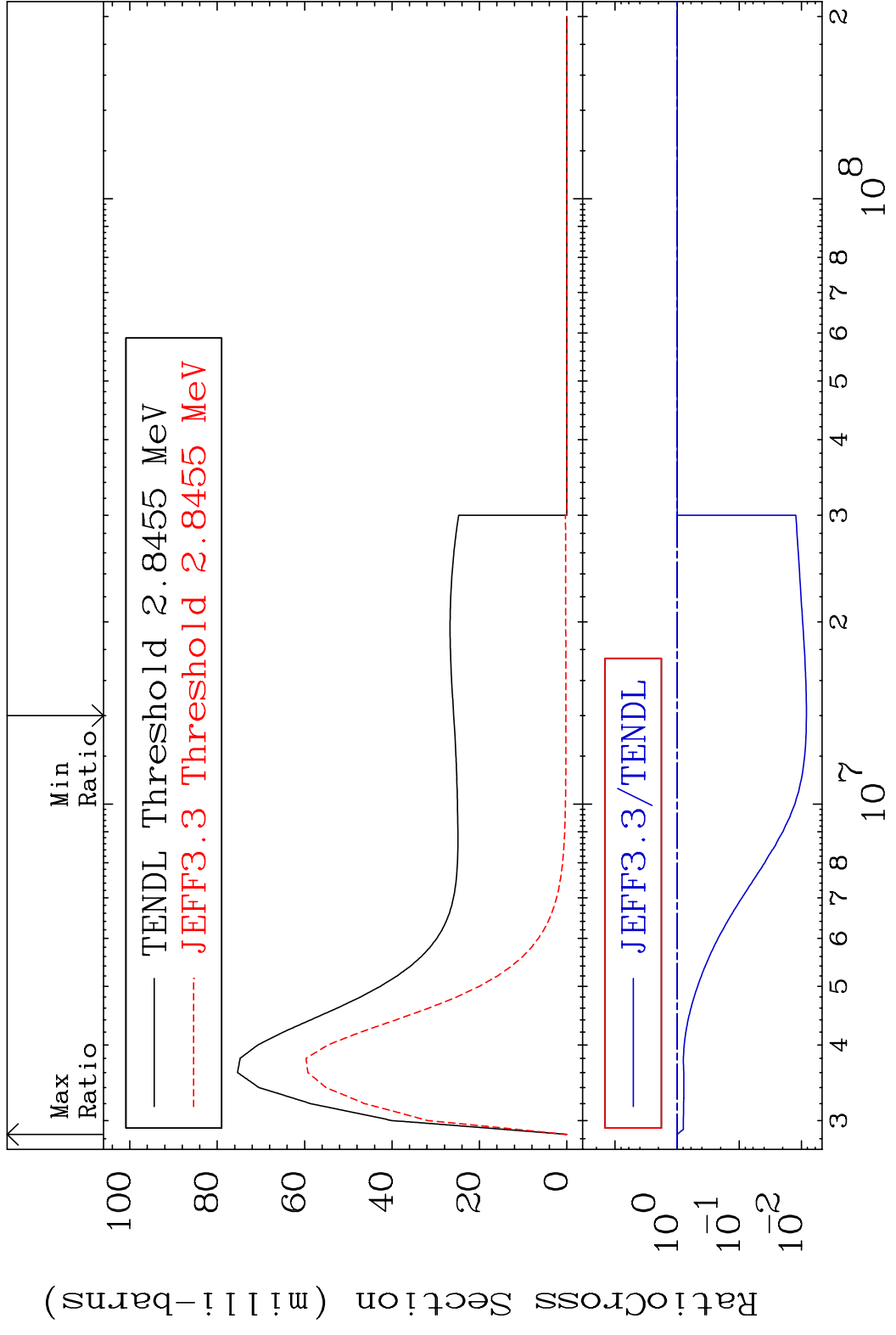
MAT 3043 MT= 60 (n, n') Level 30-Zn-70  
 Cross Section -2.857 To 24.49 %



MAT 3043 MT= 61 (n, n') Level 30-Zn-70  
 Cross Section -2.306 To 18.04 %

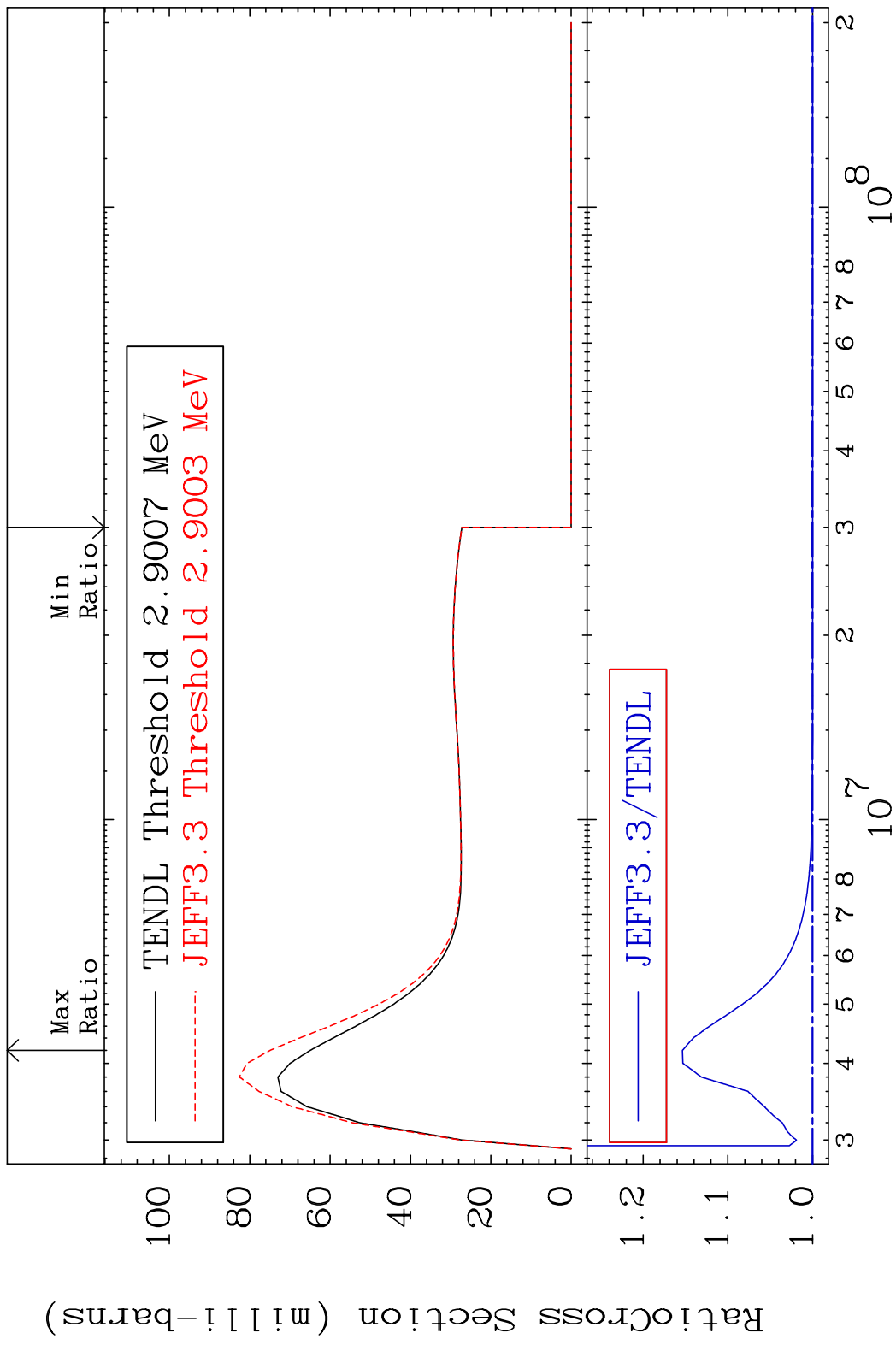


MAT 3043 MT= 62 (n, n') Level 30-Zn-70  
 Cross Section -99.17 To 0.000 %



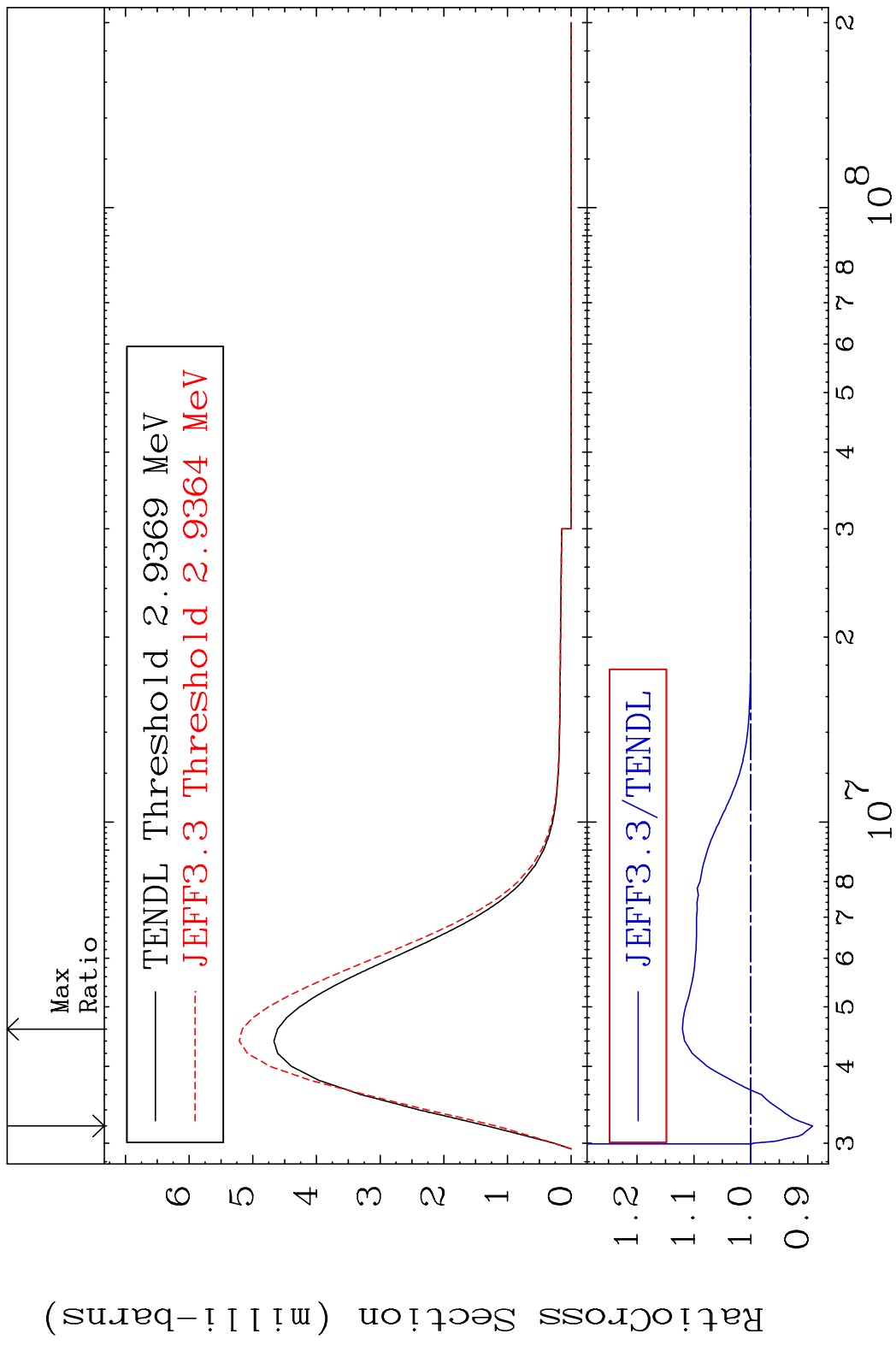
30 Incident Energy (eV) 30-Zn-70

MAT 3043 MT= 63 (n, n') Level 30-Zn-70  
 Cross Section 0.000 To 15.37 %

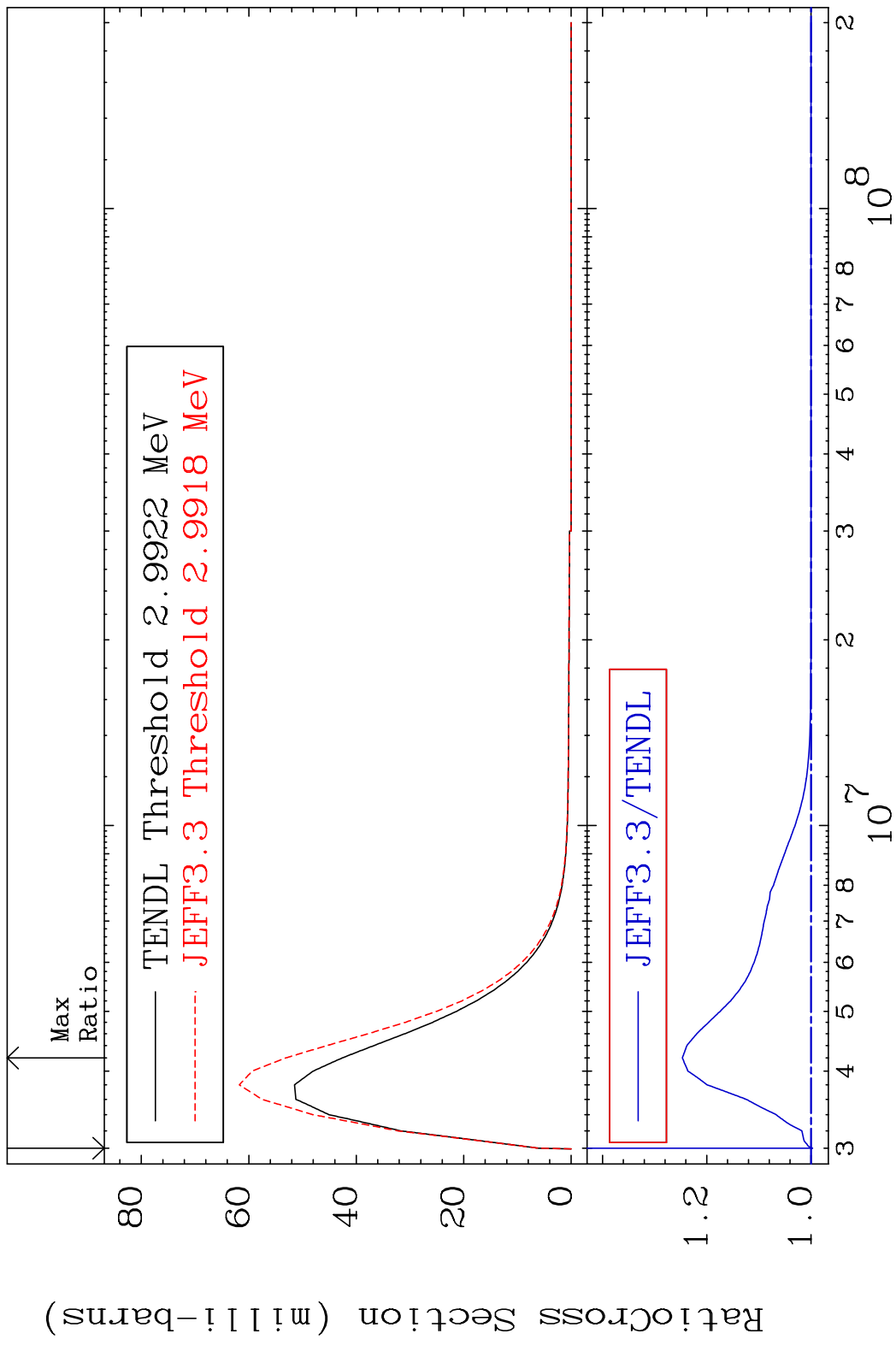




MAT 3043 MT= 64 (n, n') Level 30-Zn-70  
 Cross Section -10.84 To 12.03 %



MAT 3043 MT= 65 (n, n') Level 30-Zn-70  
 Cross Section -0.303 To 24.68 %

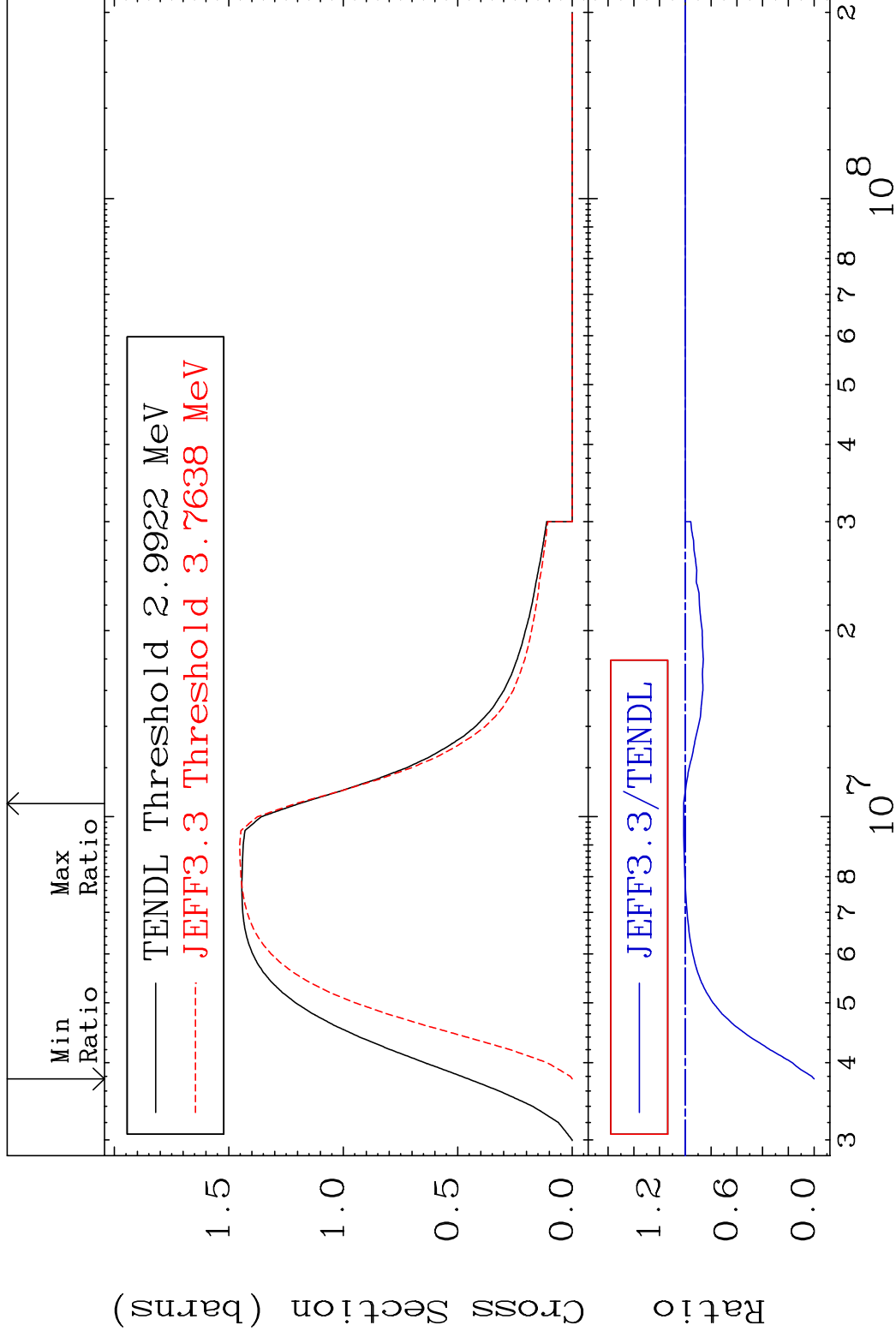


MAT 3043

(n,n') Continuum

30-Zn-70

Cross Section -100.0 To 1.286 %



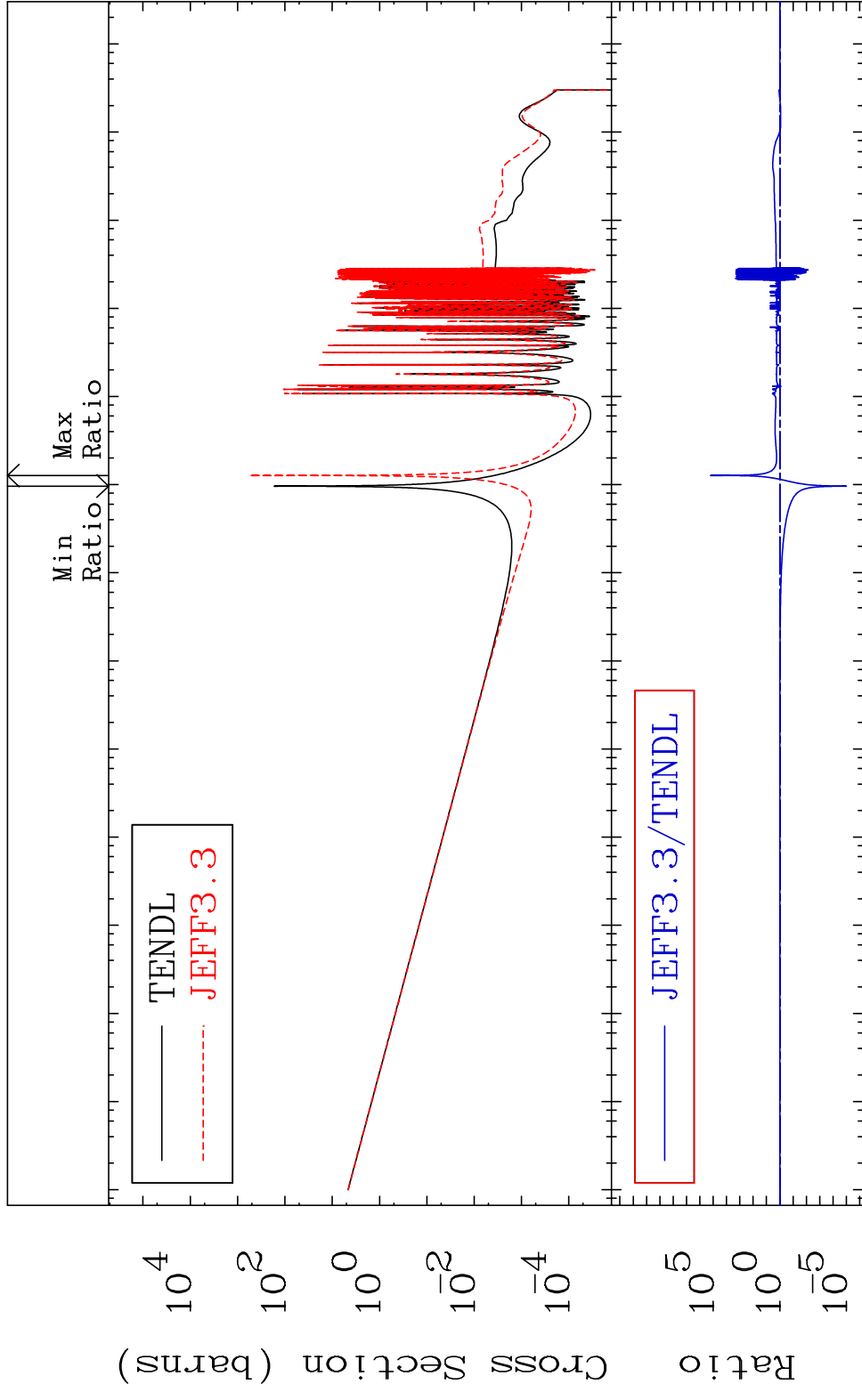
34

Incident Energy (eV)

30-Zn-70

MAT 3043

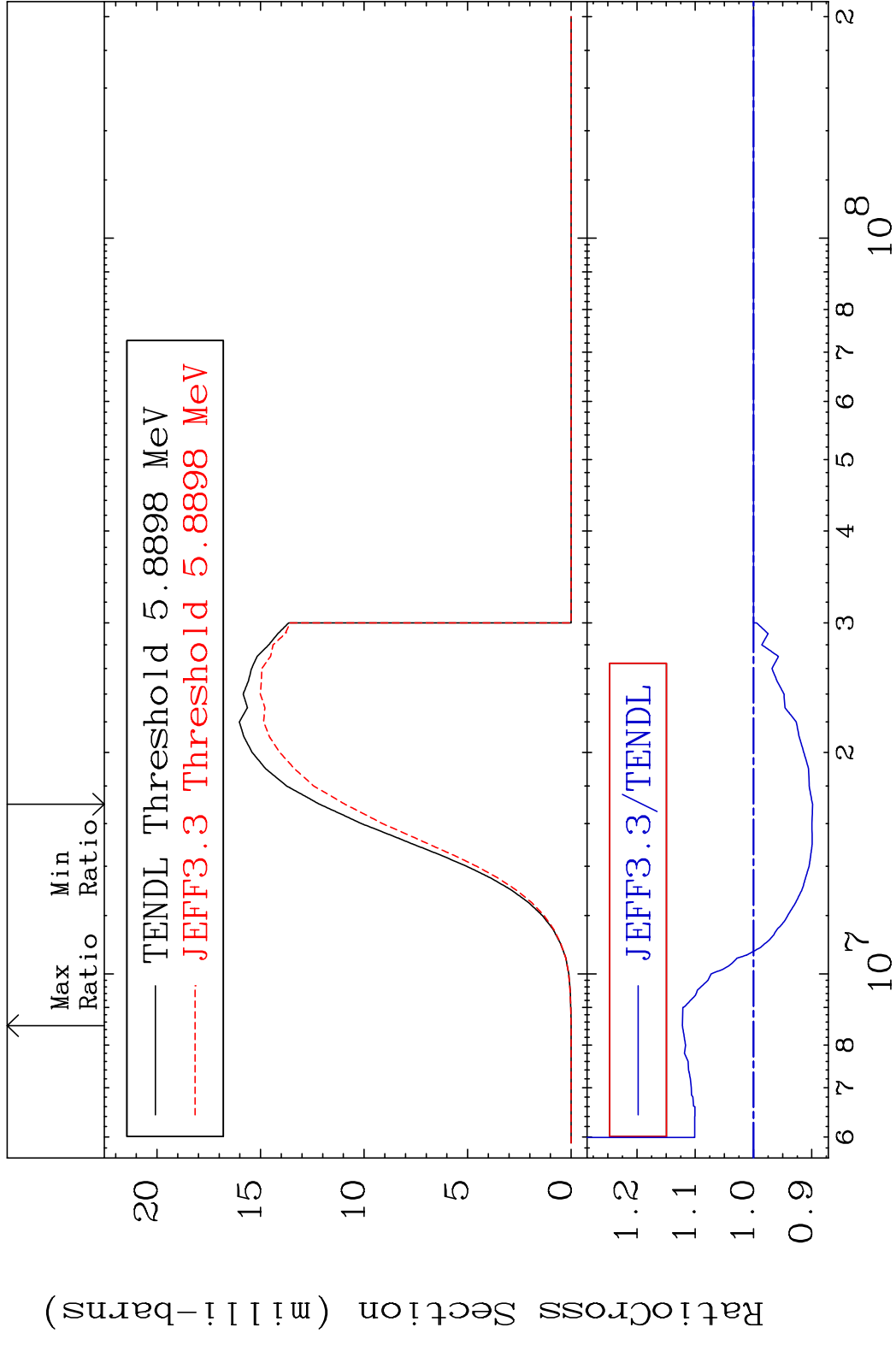
(n,  $\gamma$ )  
Cross Section -100.0 To 9999. %  
30-Zn-70



35

Incident Energy (eV) 30-Zn-70

MAT 3043 (n,p) 30-Zn-70  
 Cross Section -10.13 To 12.21 %

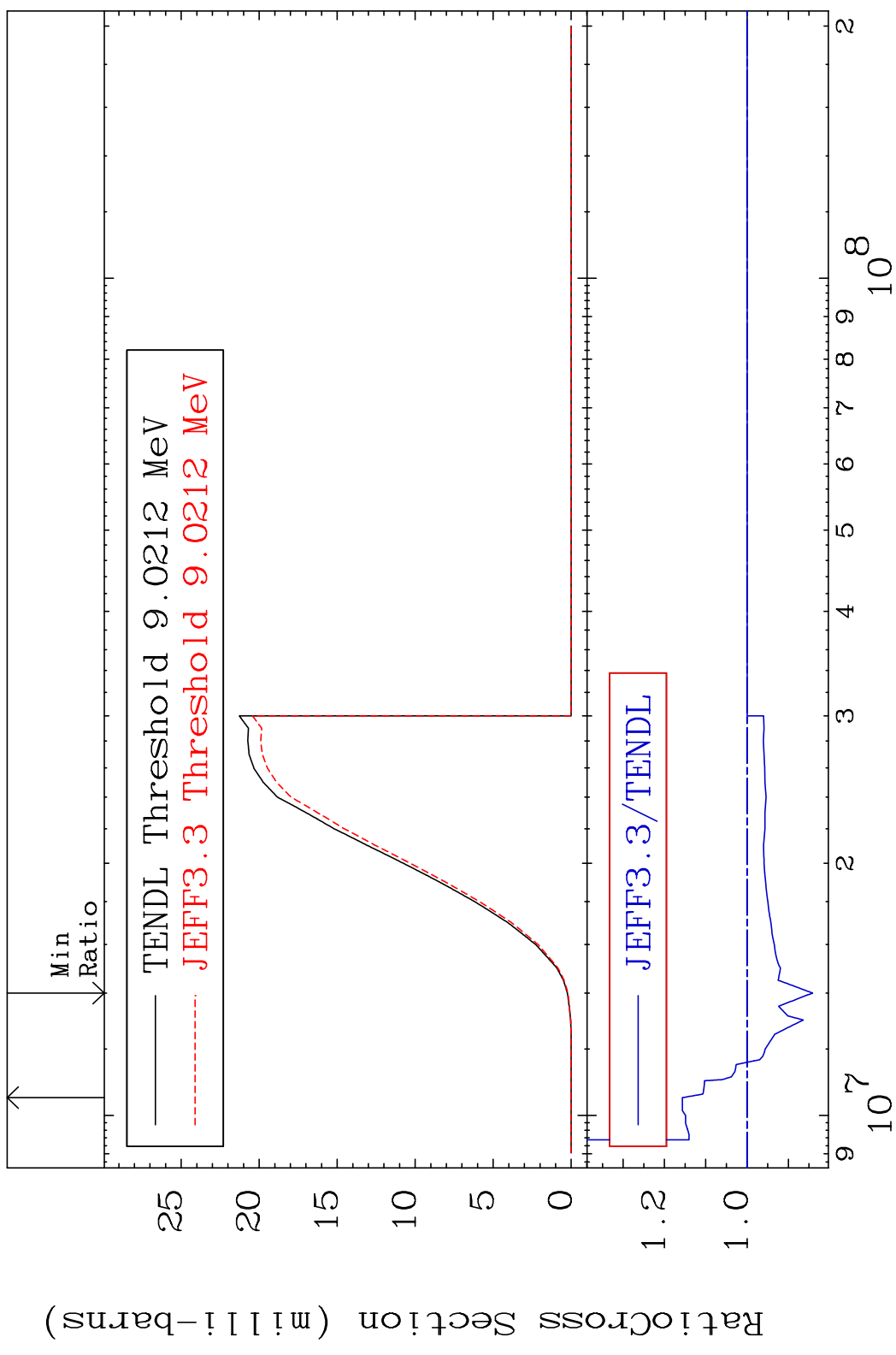


MAT 3043

(n, d)

30-Zn-70

Cross Section -15.85 To 15.66 %

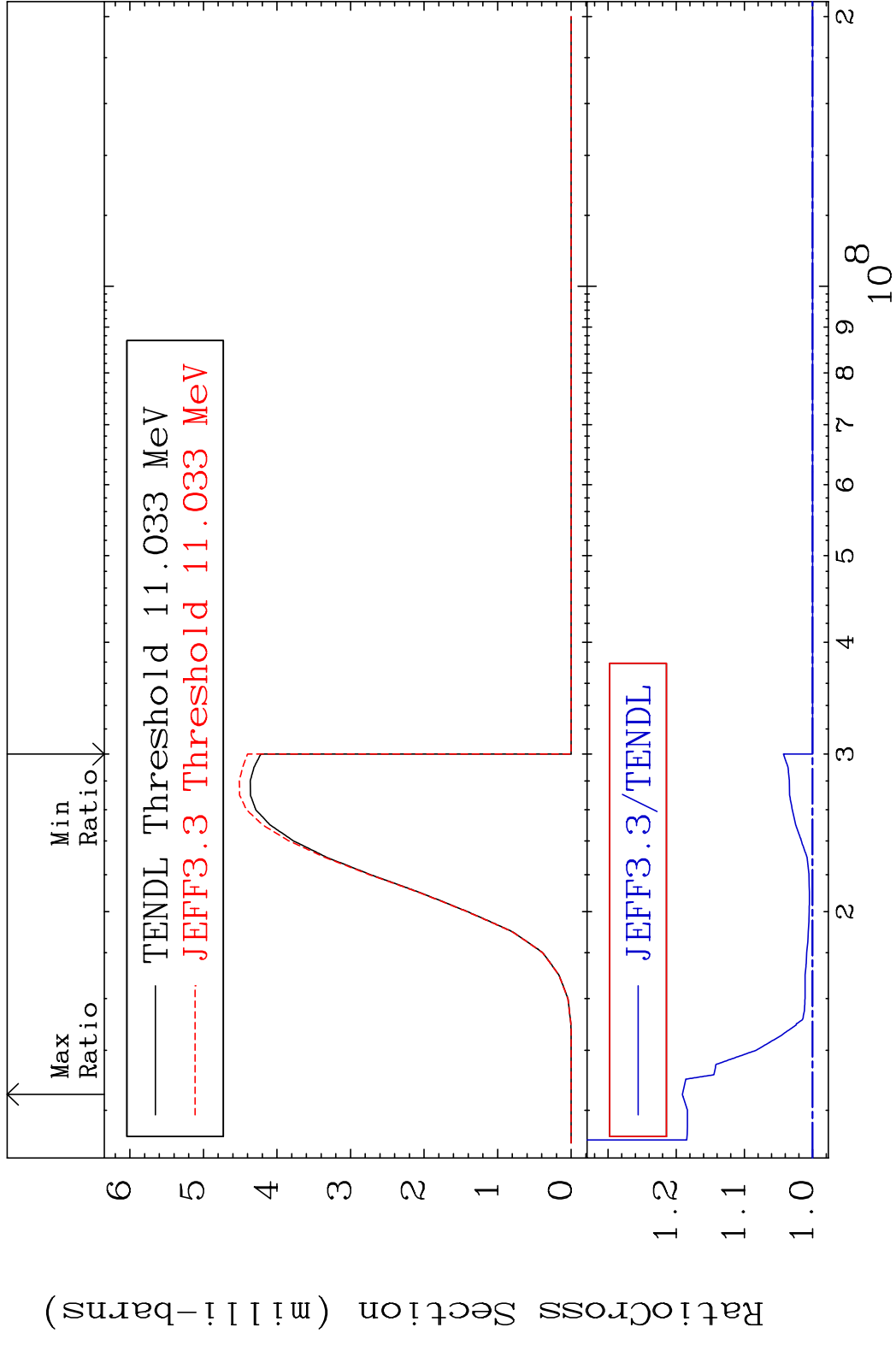


37

Incident Energy (eV)

30-Zn-70

MAT 3043 (n, t) 30-Zn-70  
 Cross Section 0.000 To 19.11 %

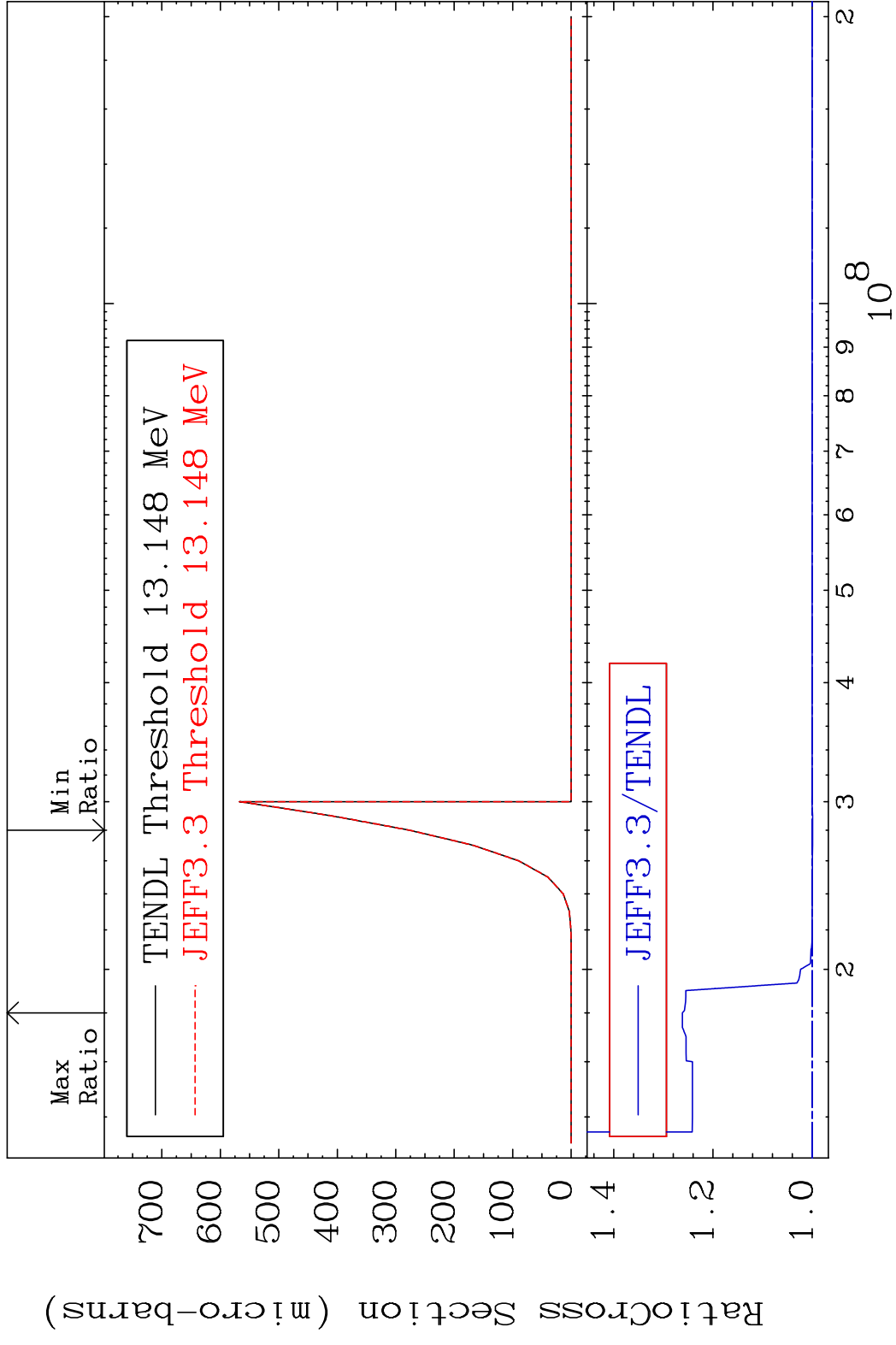


MAT 3043

(n, He-3)

30-Zn-70

Cross Section -0.065 To 26.16 %



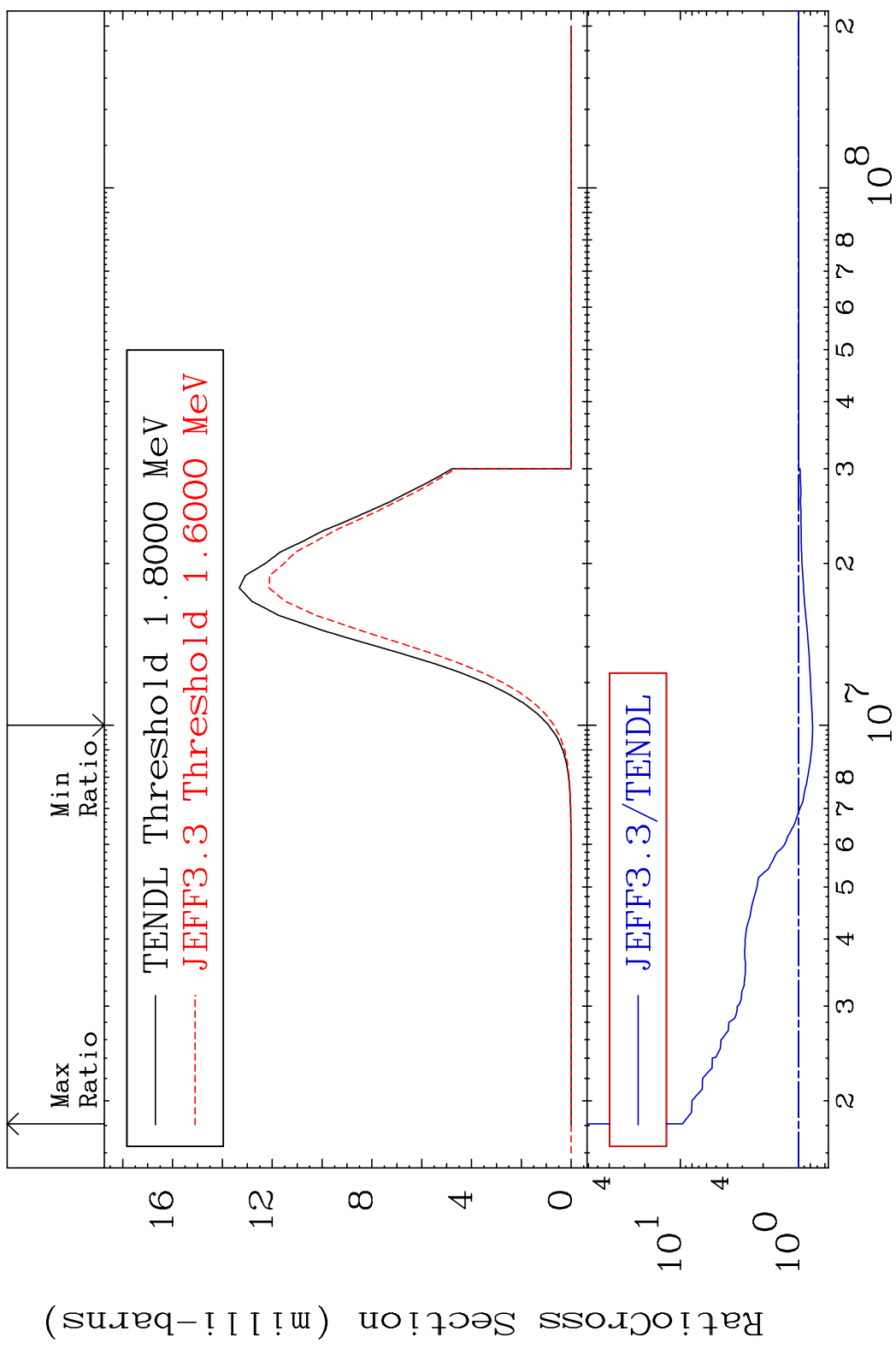


MAT 3043

(n,  $\alpha$ )

30-Zn-70

Cross Section -23.56 To 862.9 %



40

Incident Energy (eV)

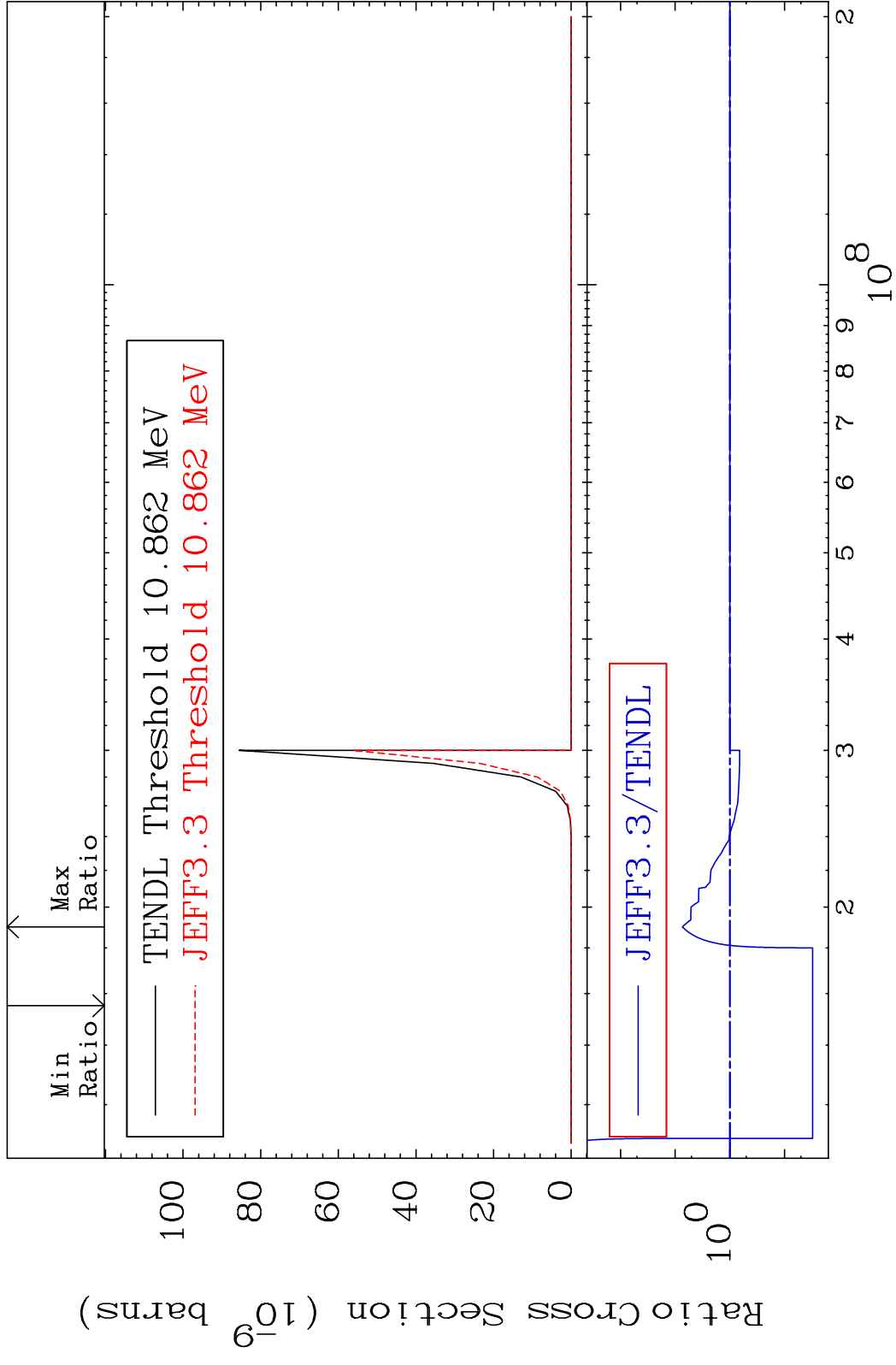
30-Zn-70

MAT 3043

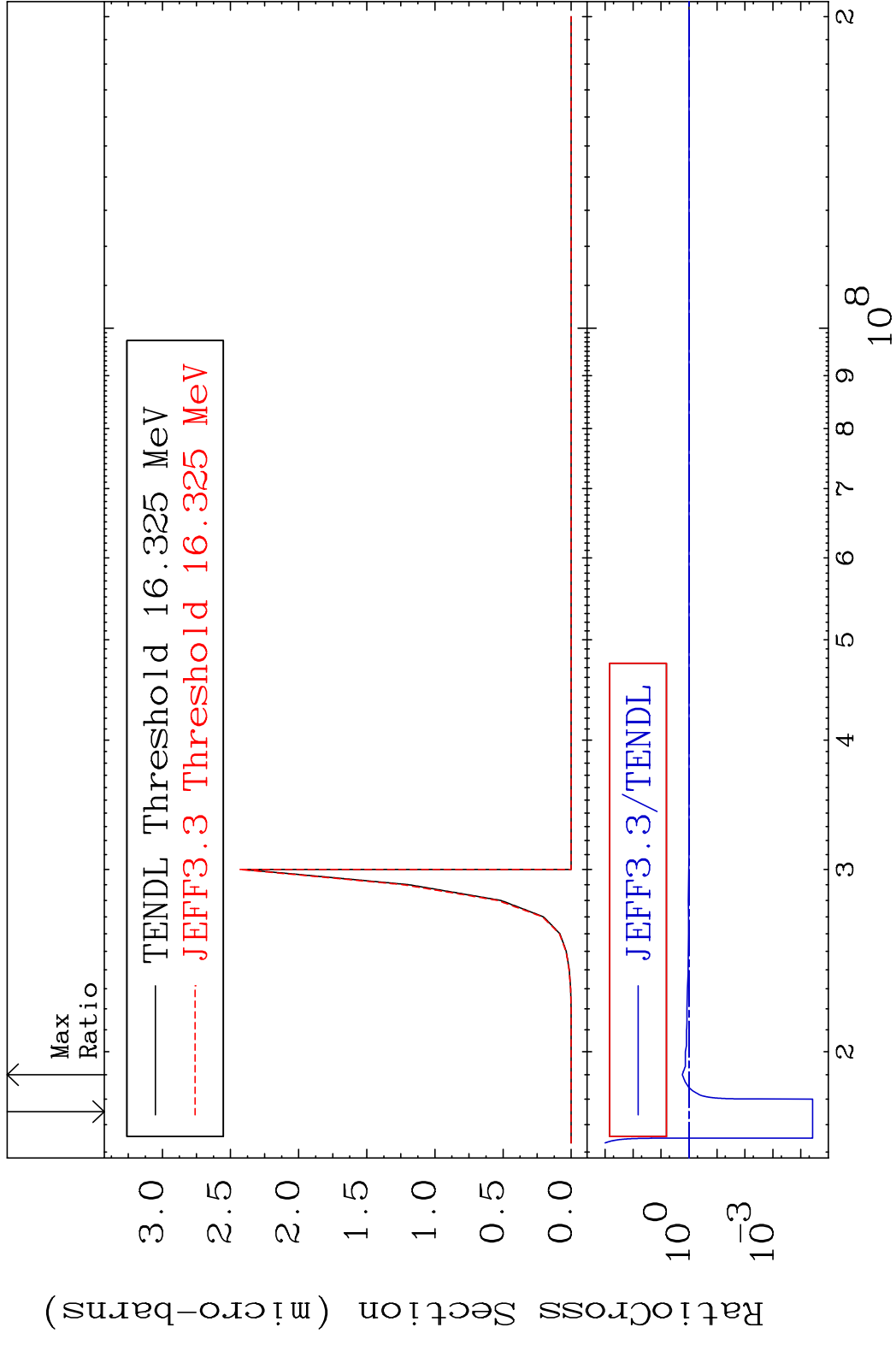
(n,2α)

30-Zn-70

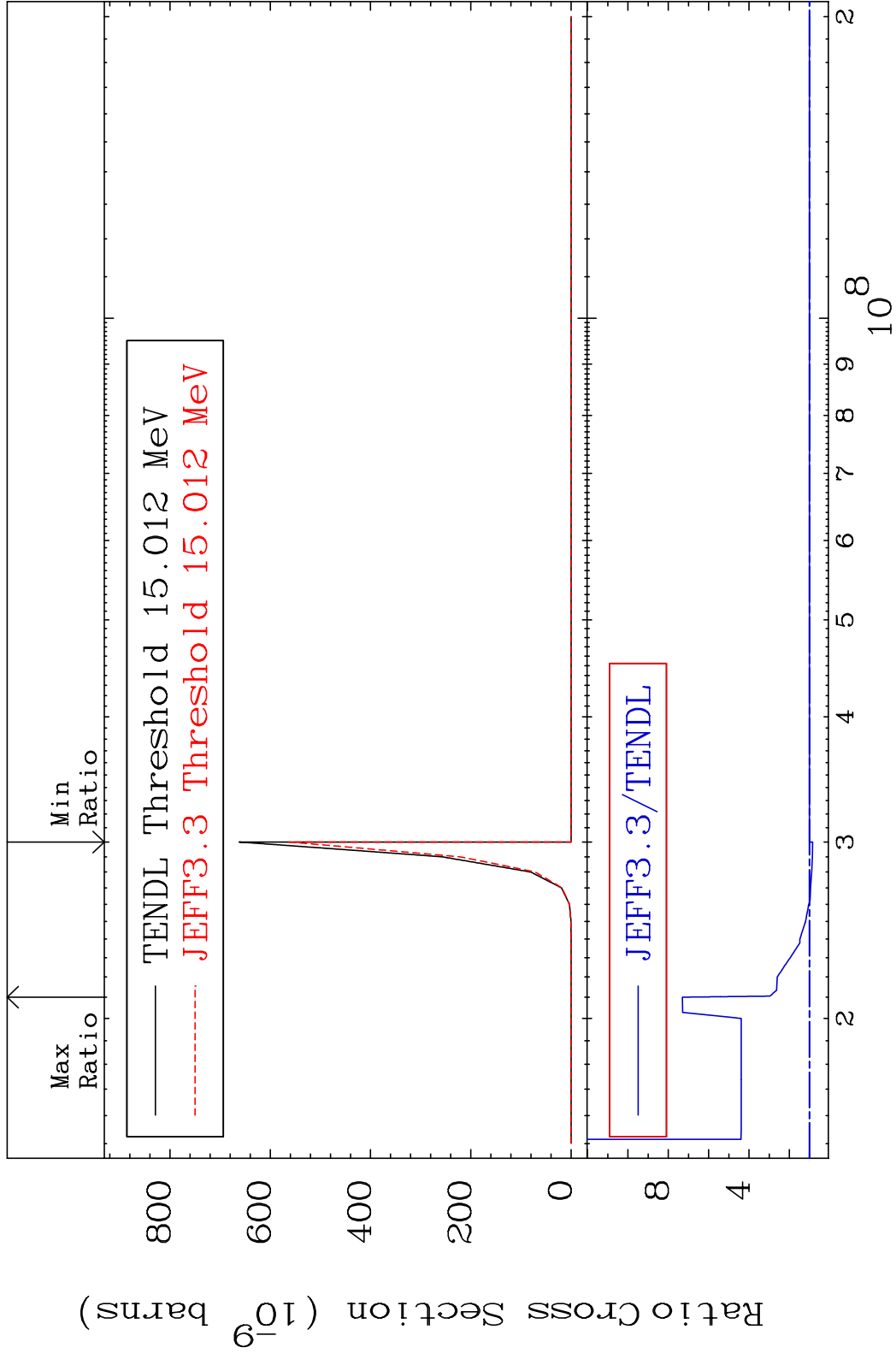
Cross Section -96.94 To 638.1 %



MAT 3043 (n,2p) 30-Zn-70  
 Cross Section -100.0 To 72.86 %

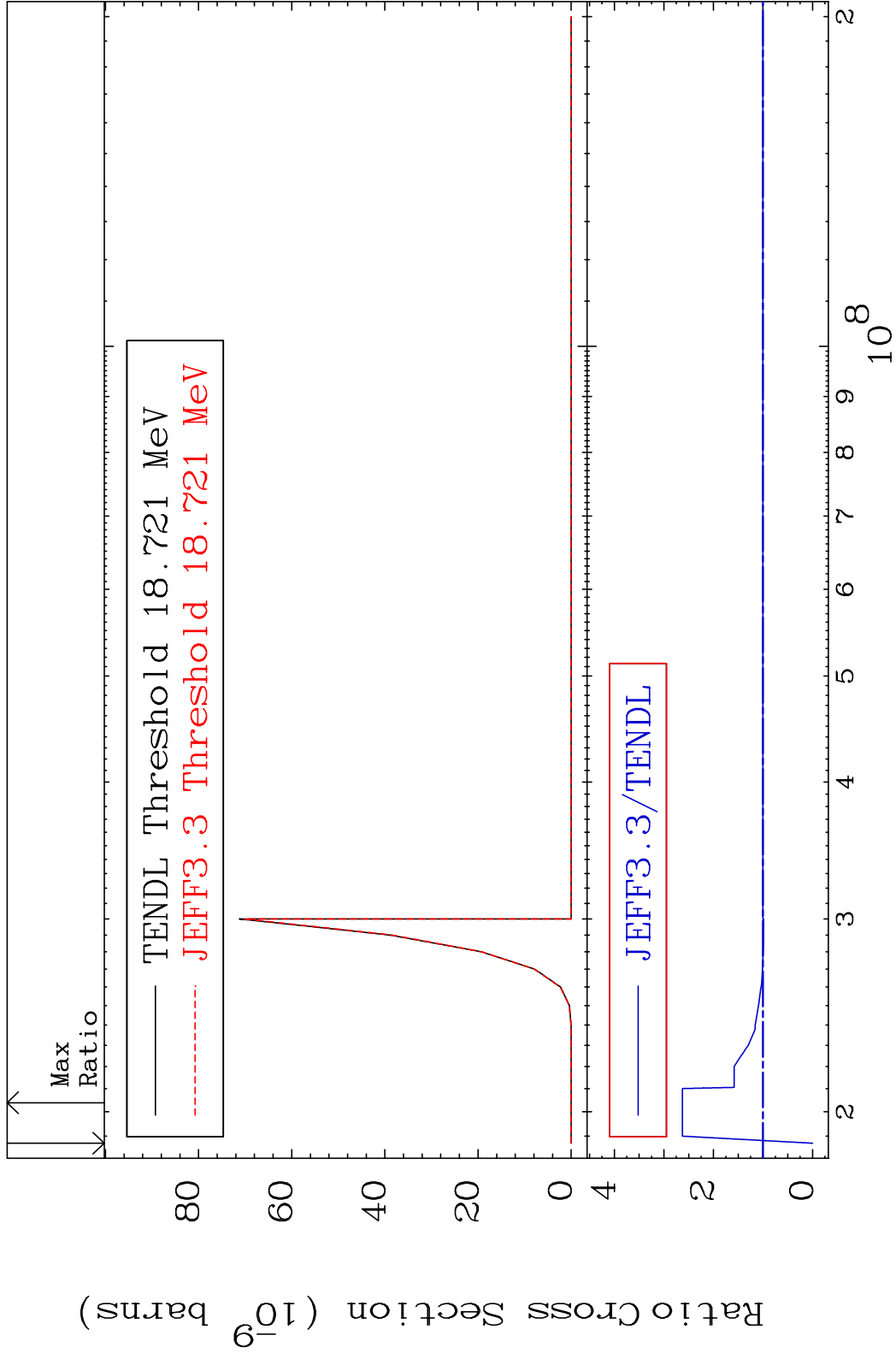


MAT 3043 (n,p)  $\alpha$  30-Zn-70  
 Cross Section -15.02 To 630.2 %

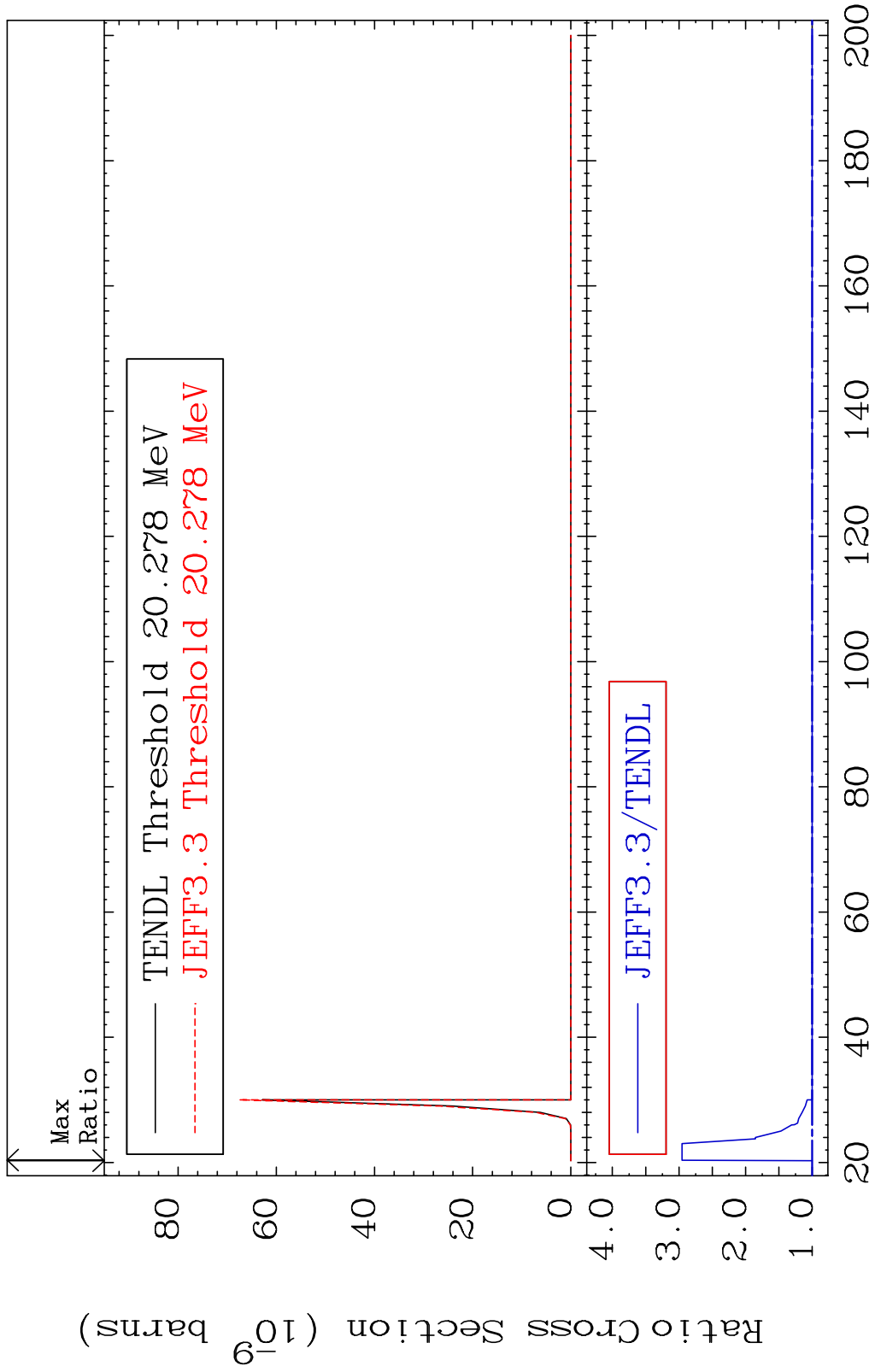


43 Incident Energy (eV) 30-Zn-70

MAT 3043 (n,p) d 30-Zn-70  
 Cross Section -100.0 To 162.7 %



MAT 3043 (n,p) t 30-Zn-70  
Cross Section 0.000 To 195.5 %



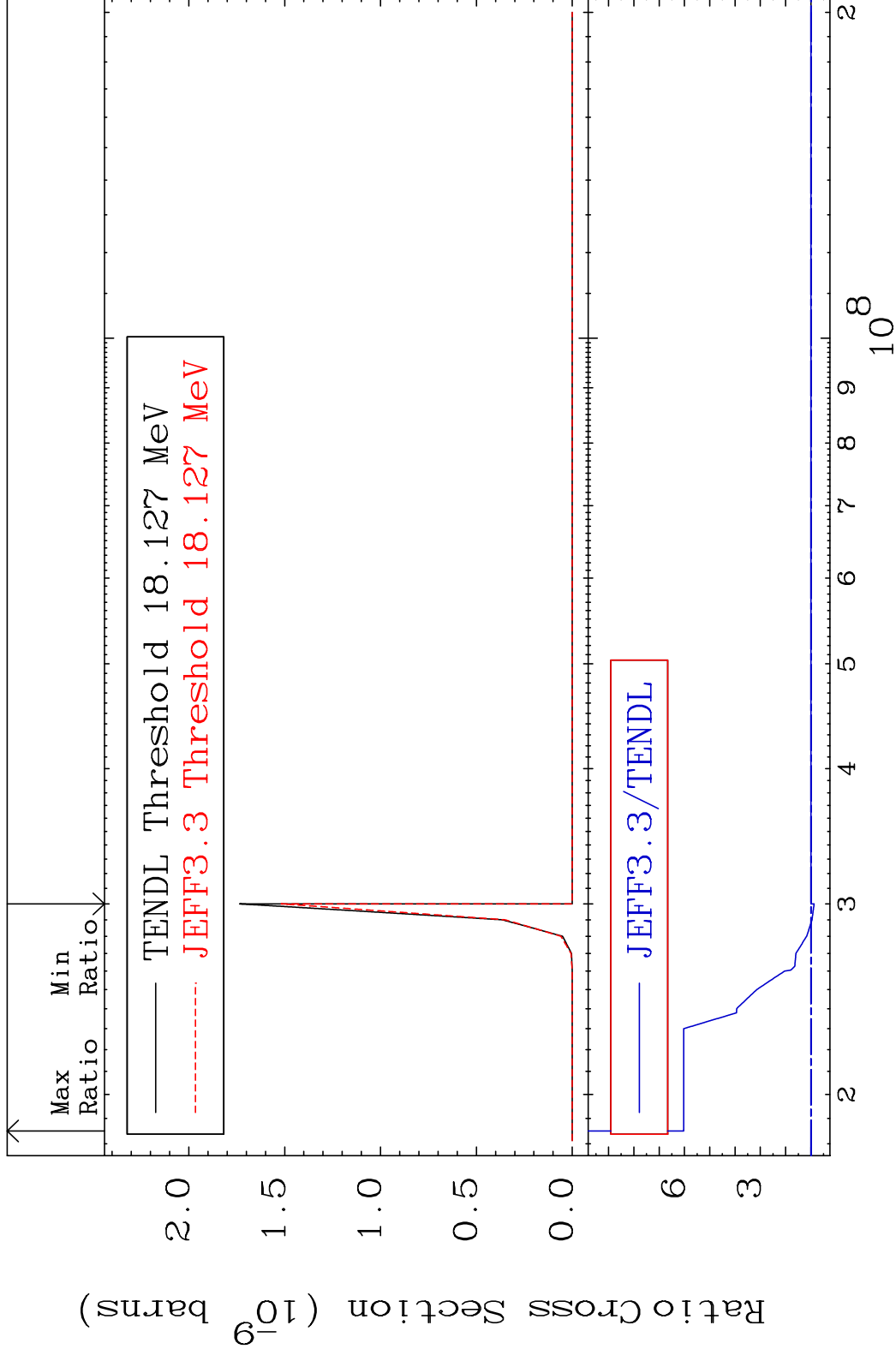
45 Incident Energy (MeV) 30-Zn-70

MAT 3043

(n,d)  $\alpha$

30-Zn-70

Cross Section -12.52 To 503.1 %



46

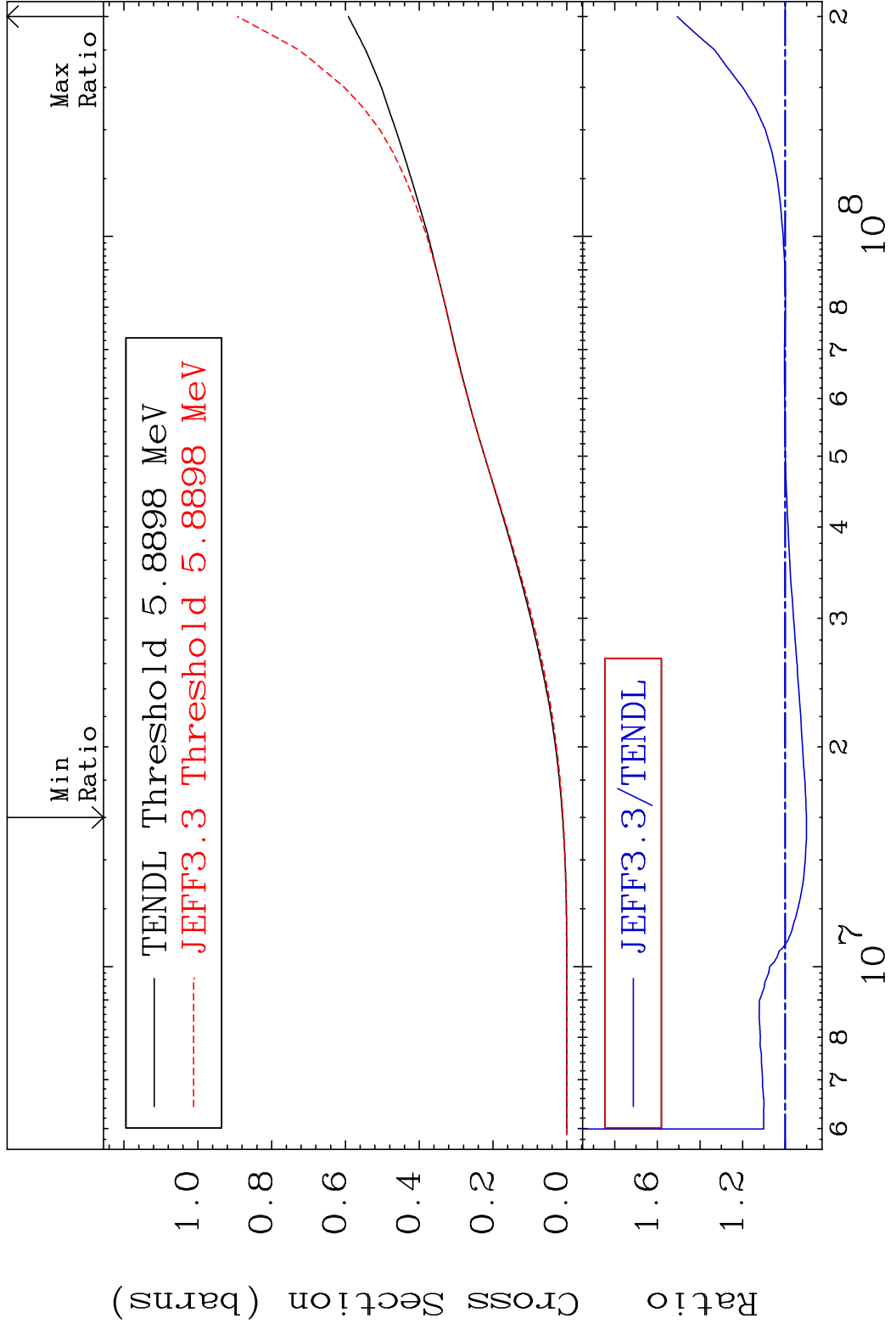
Incident Energy (eV)

30-Zn-70

MAT 3043

Hydrogen Production  
Cross Section -9.915 To 50.71 %

30-Zn-70



47

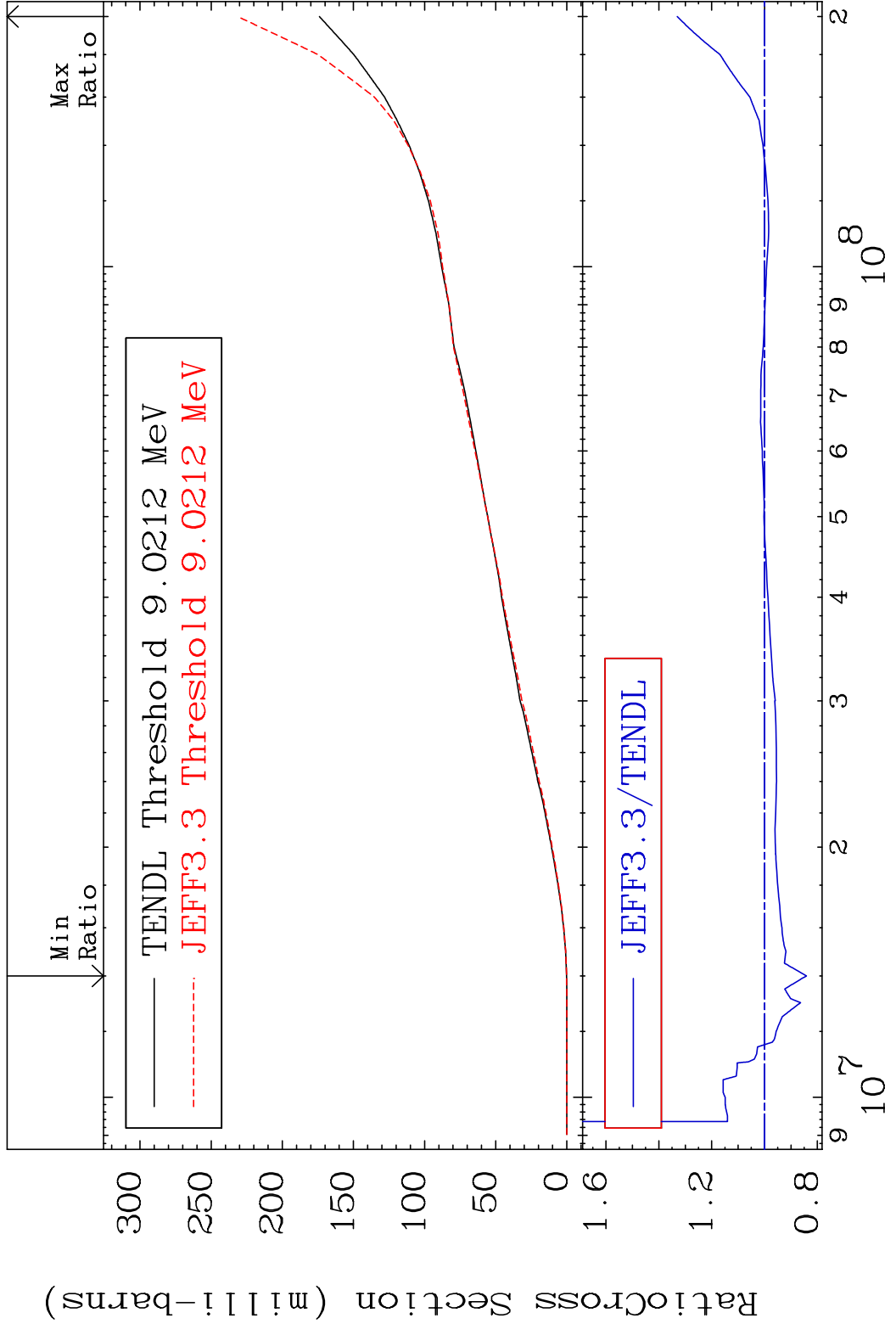
Incident Energy (eV)

30-Zn-70



MAT 3043

Deuterium Production 30-Zn-70  
Cross Section -15.85 To 33.06 %



48

Incident Energy (eV)

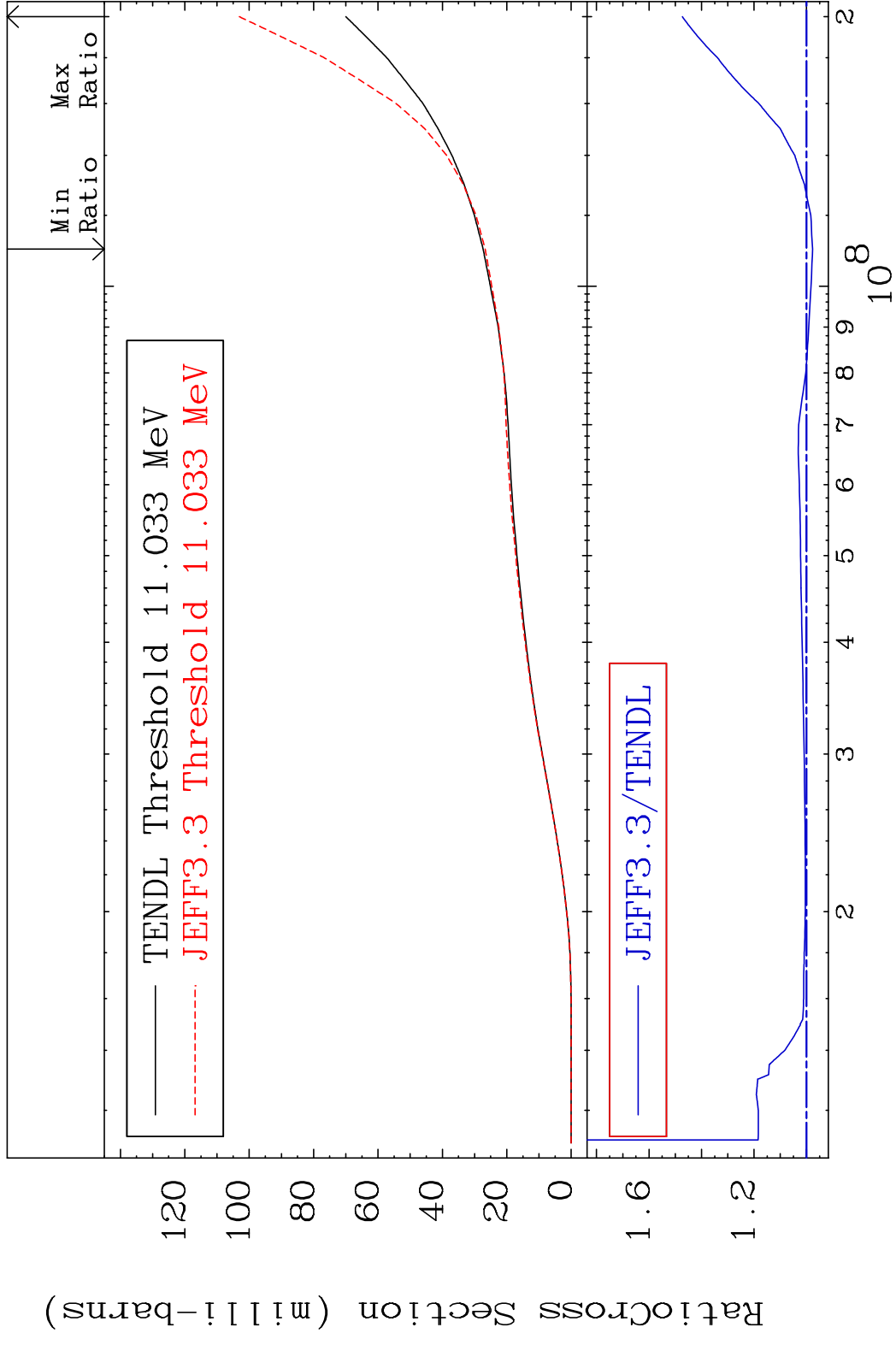
30-Zn-70

MAT 3043

Tritium Production

30-Zn-70

Cross Section -2.292 To 47.31 %

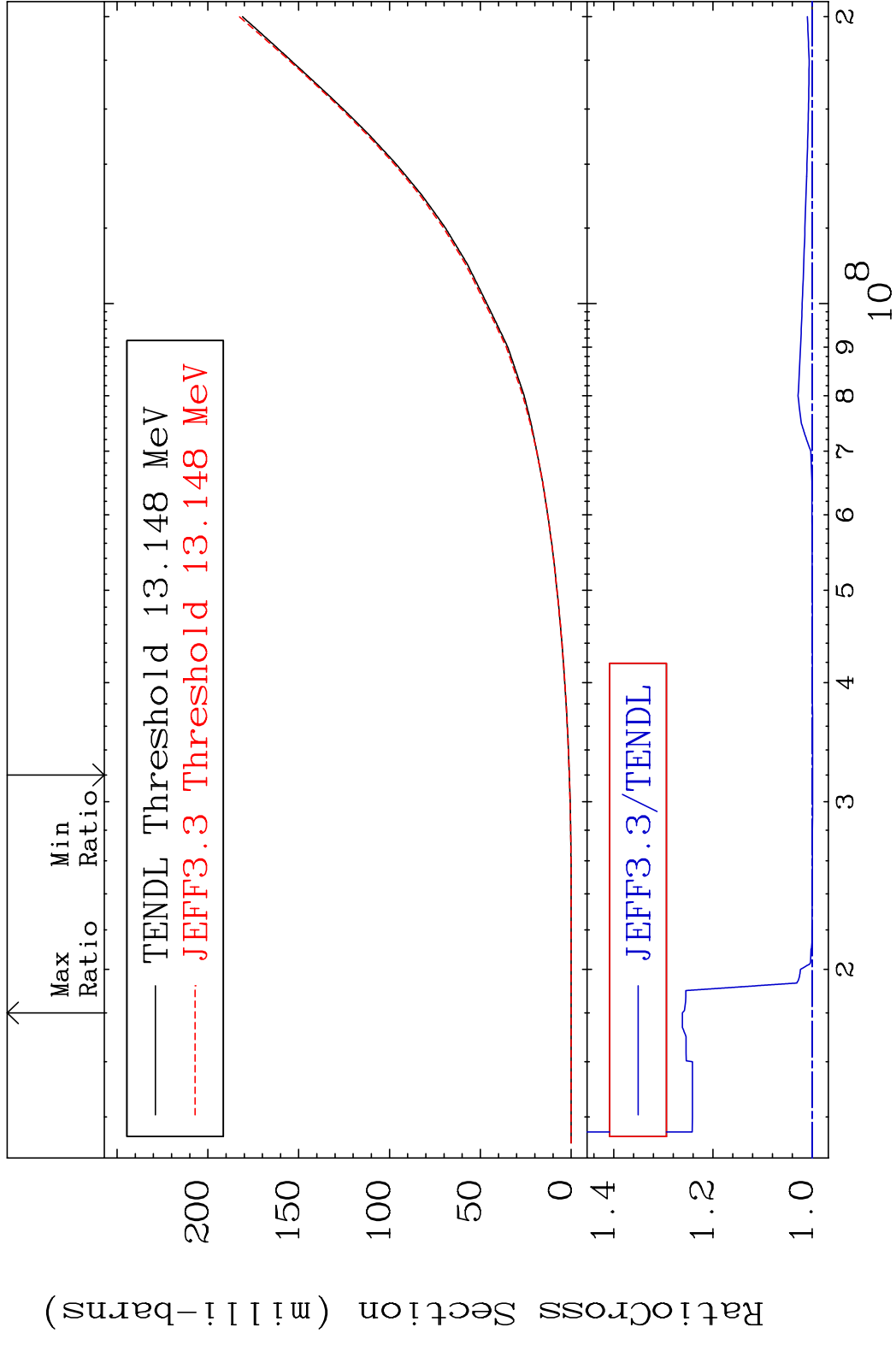


MAT 3043

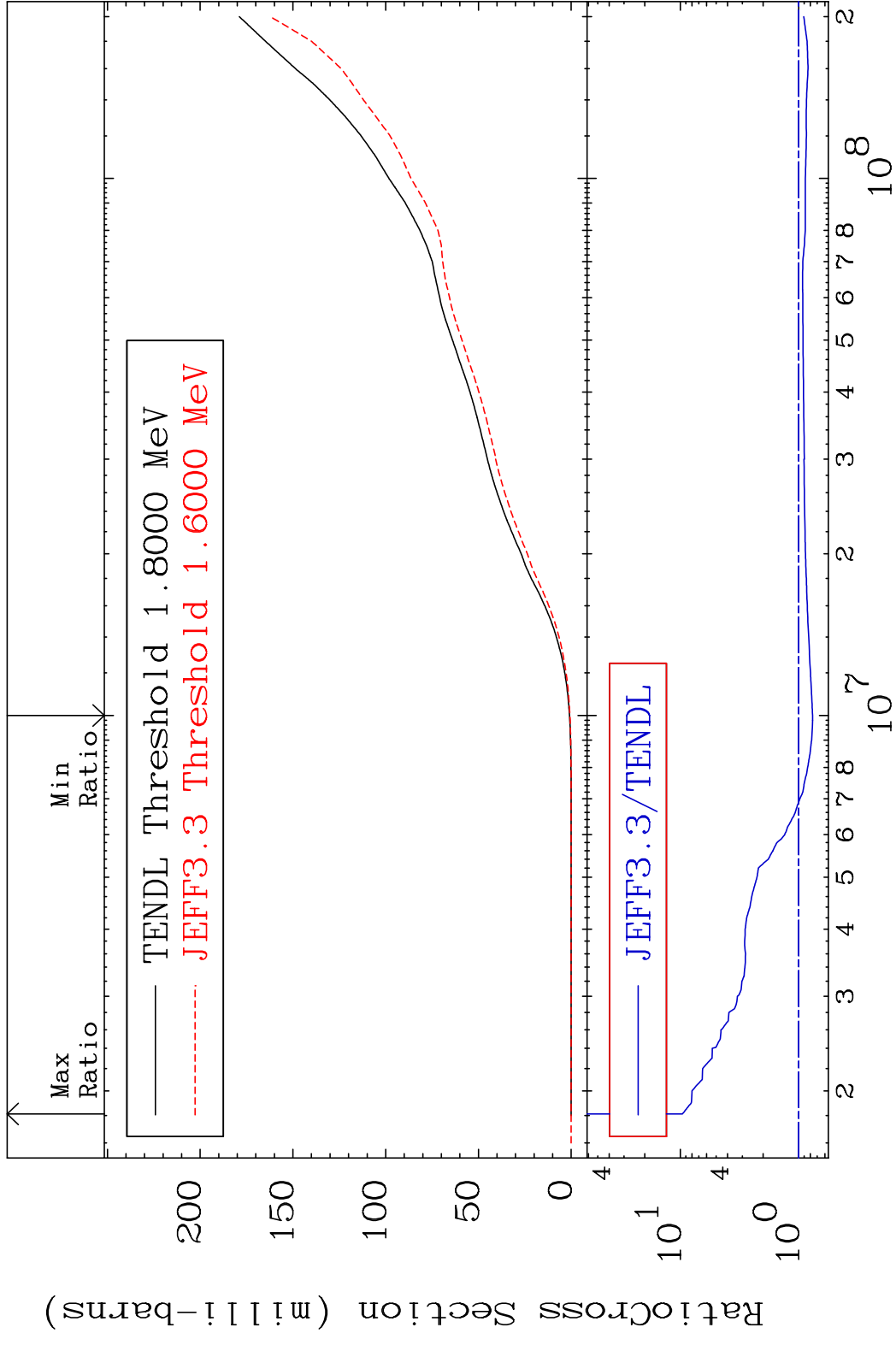
He-3 Production

30-Zn-70

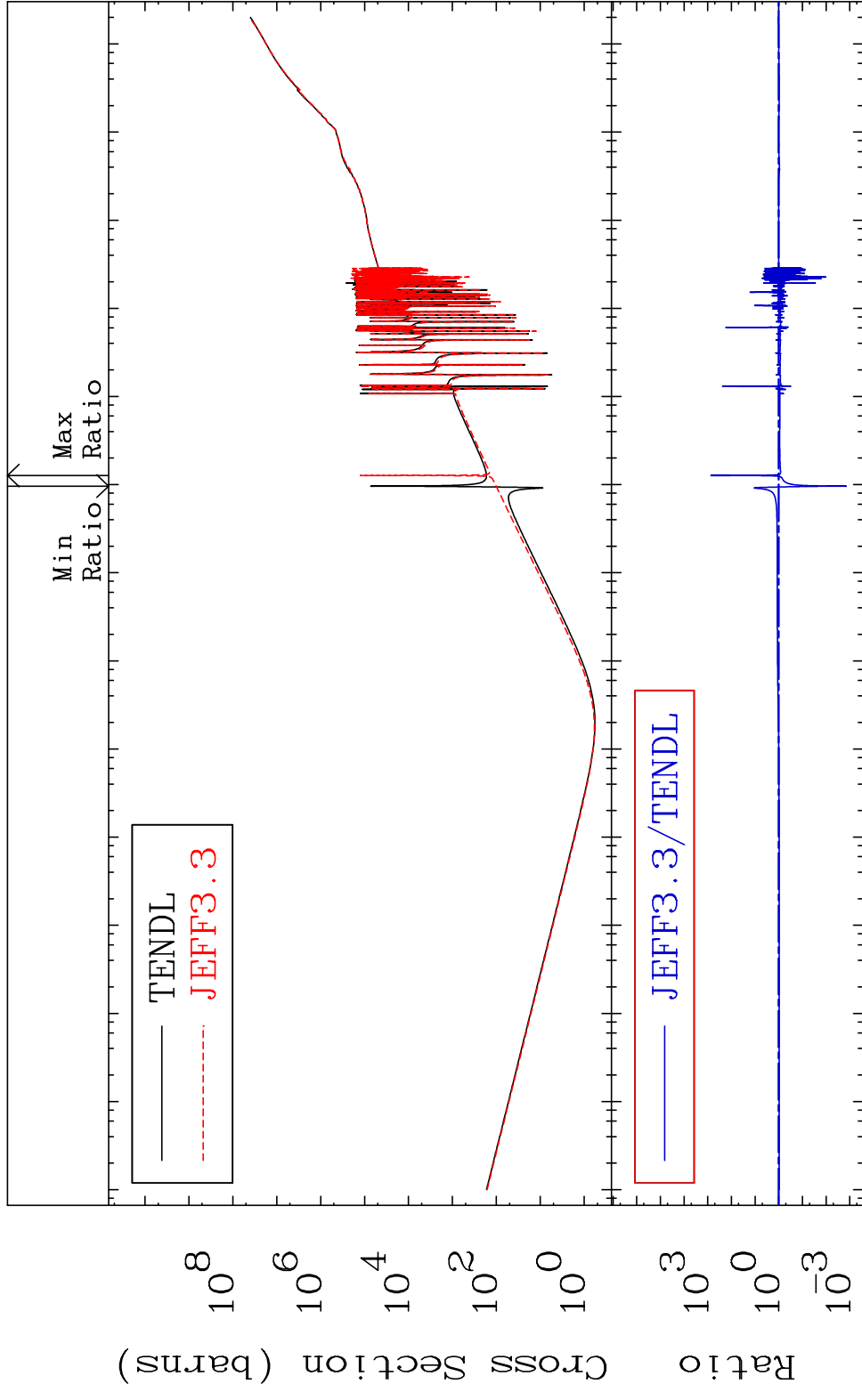
Cross Section -0.080 To 26.16 %



MAT 3043 He-4 Production 30-Zn-70  
 Cross Section -23.56 To 862.9 %



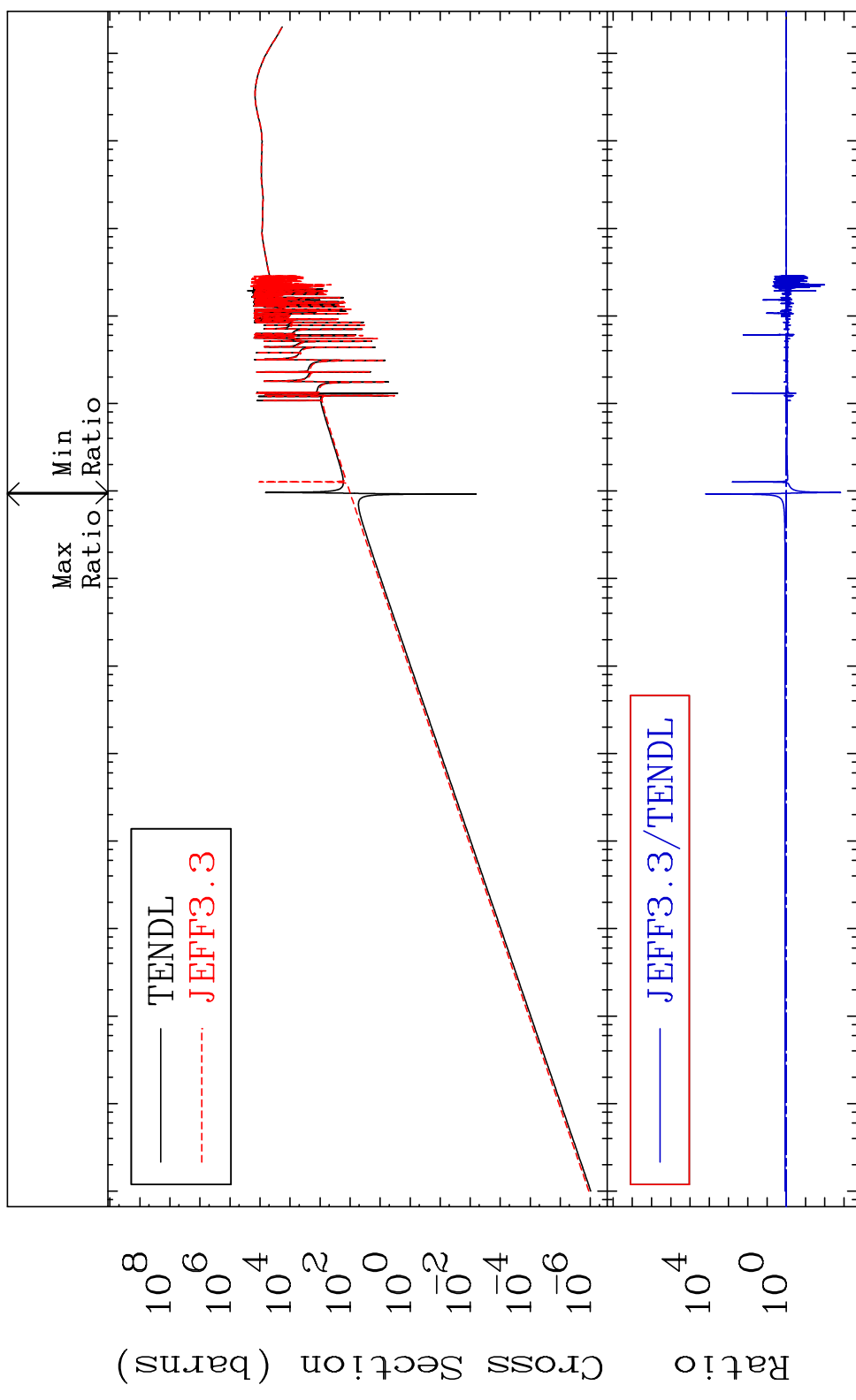
MAT 3043 Kerma total (eV-barns) 30-Zn-70  
 Cross Section -99.86 To 9999. %



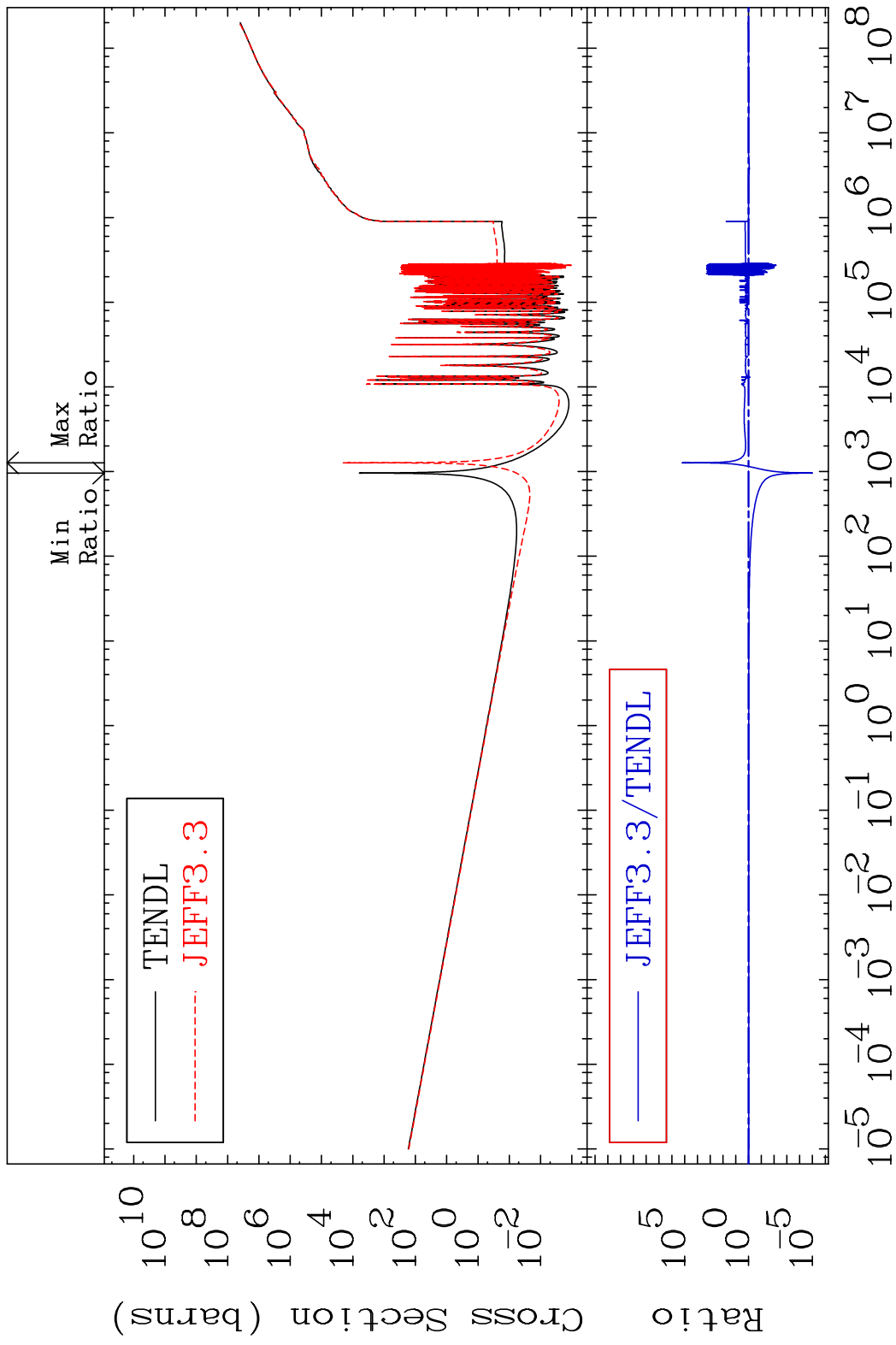
52 Incident Energy (eV) 30-Zn-70

MAT 3043

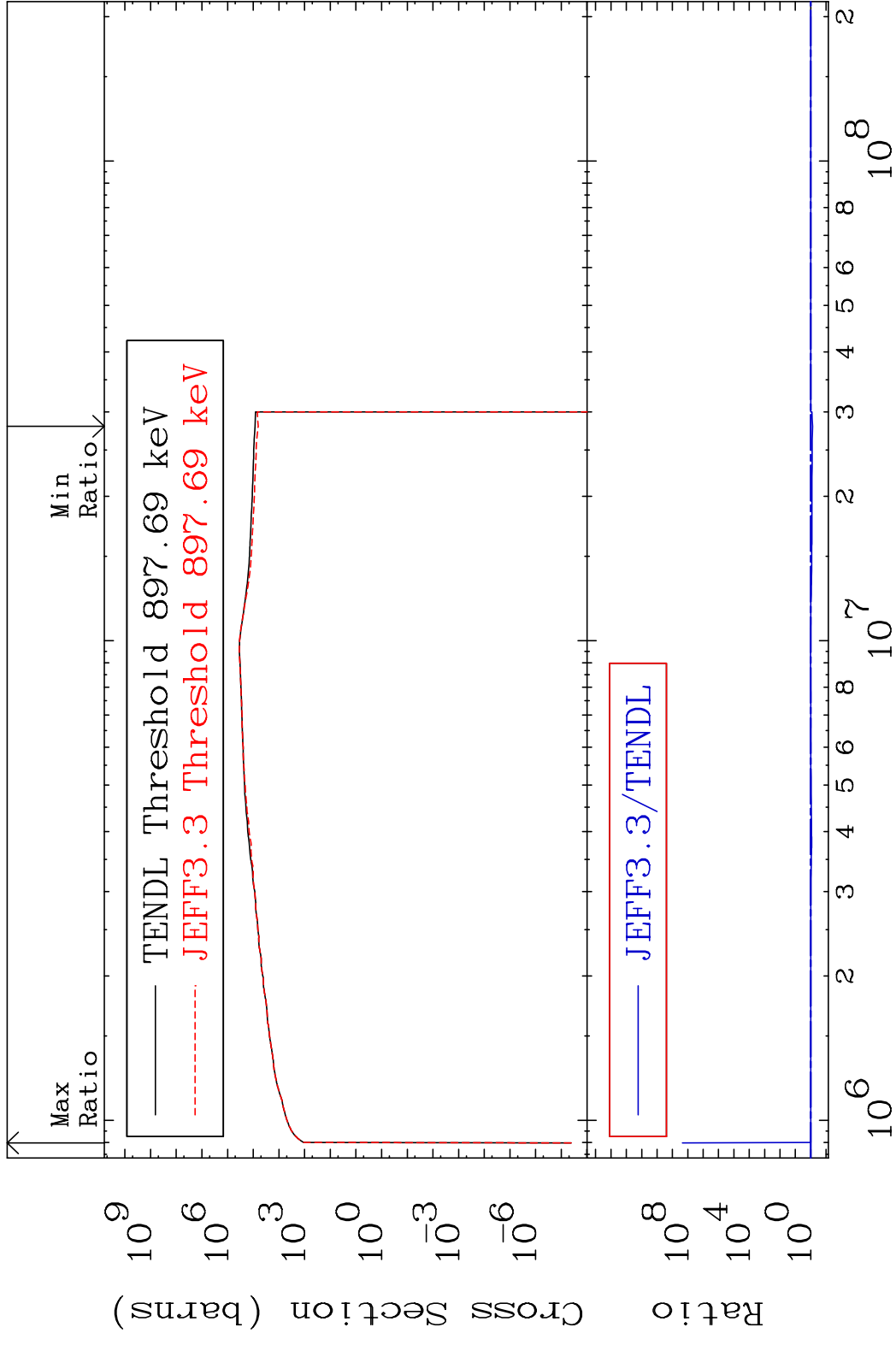
Kerma elastic Cross Section -99.85 To 9999. %  
30-Zn-70



MAT 3043 Kerma non-elastic (all but mt2) 30-Zn-70  
 Cross Section -100.0 To 9999. %

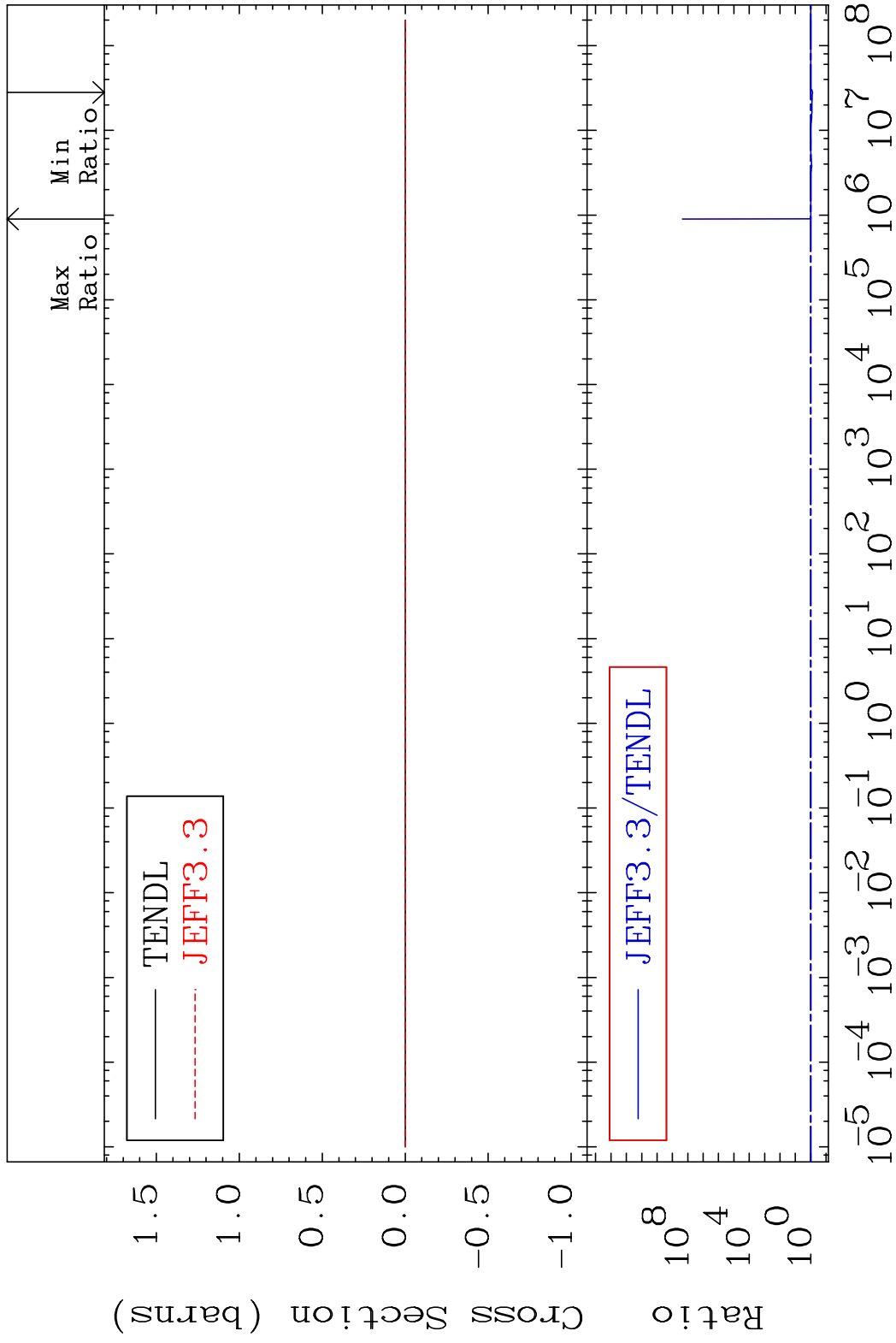


MAT 3043 Kerma inelastic (mt51-91) 30-Zn-70  
 Cross Section -24.19 To 9999. %



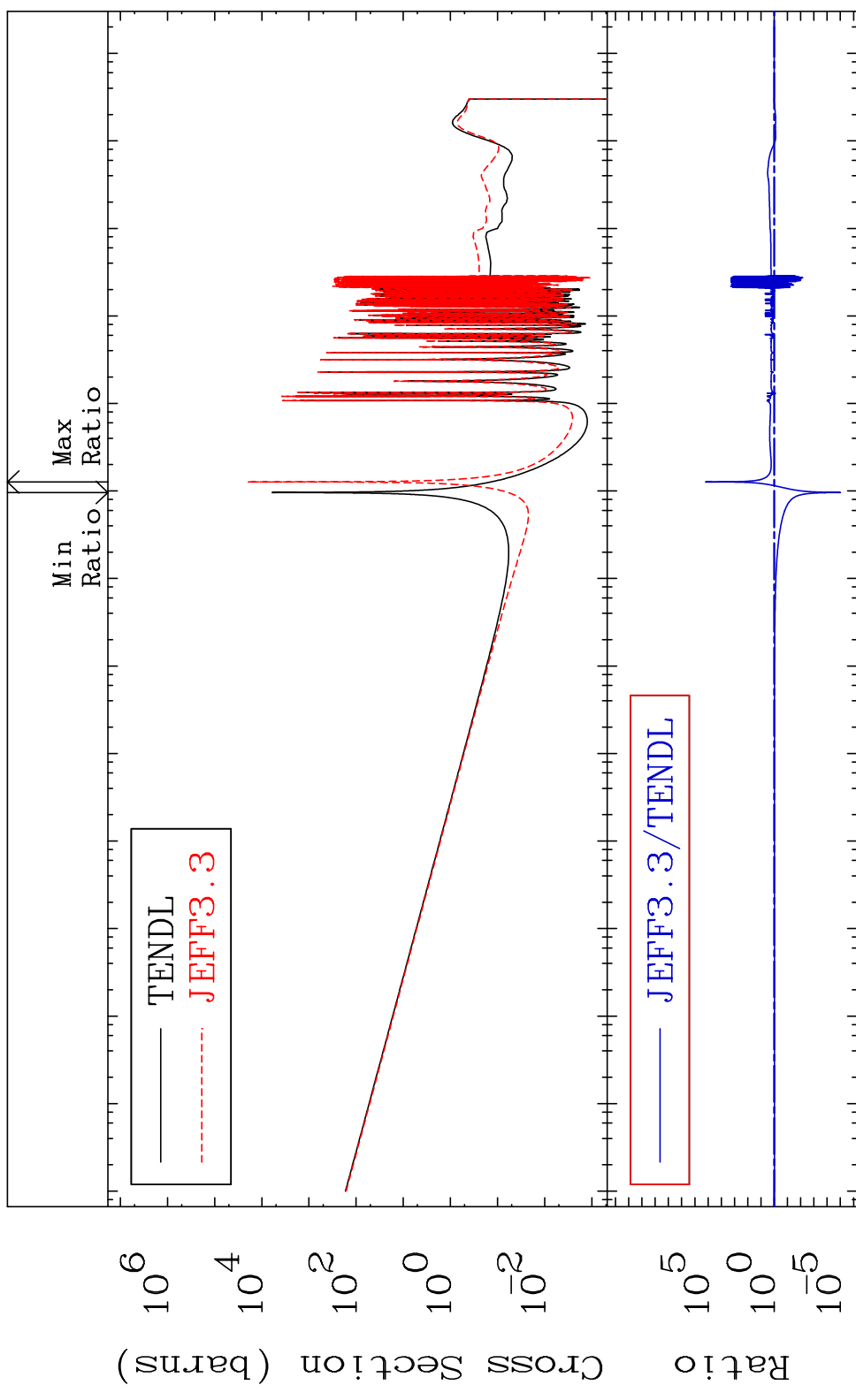


MAT 3043 Kerma fission (mt18 or mt19-20-21-38) 30-Zn-70  
 Cross Section -24.19 To 9999. %



MAT 3043

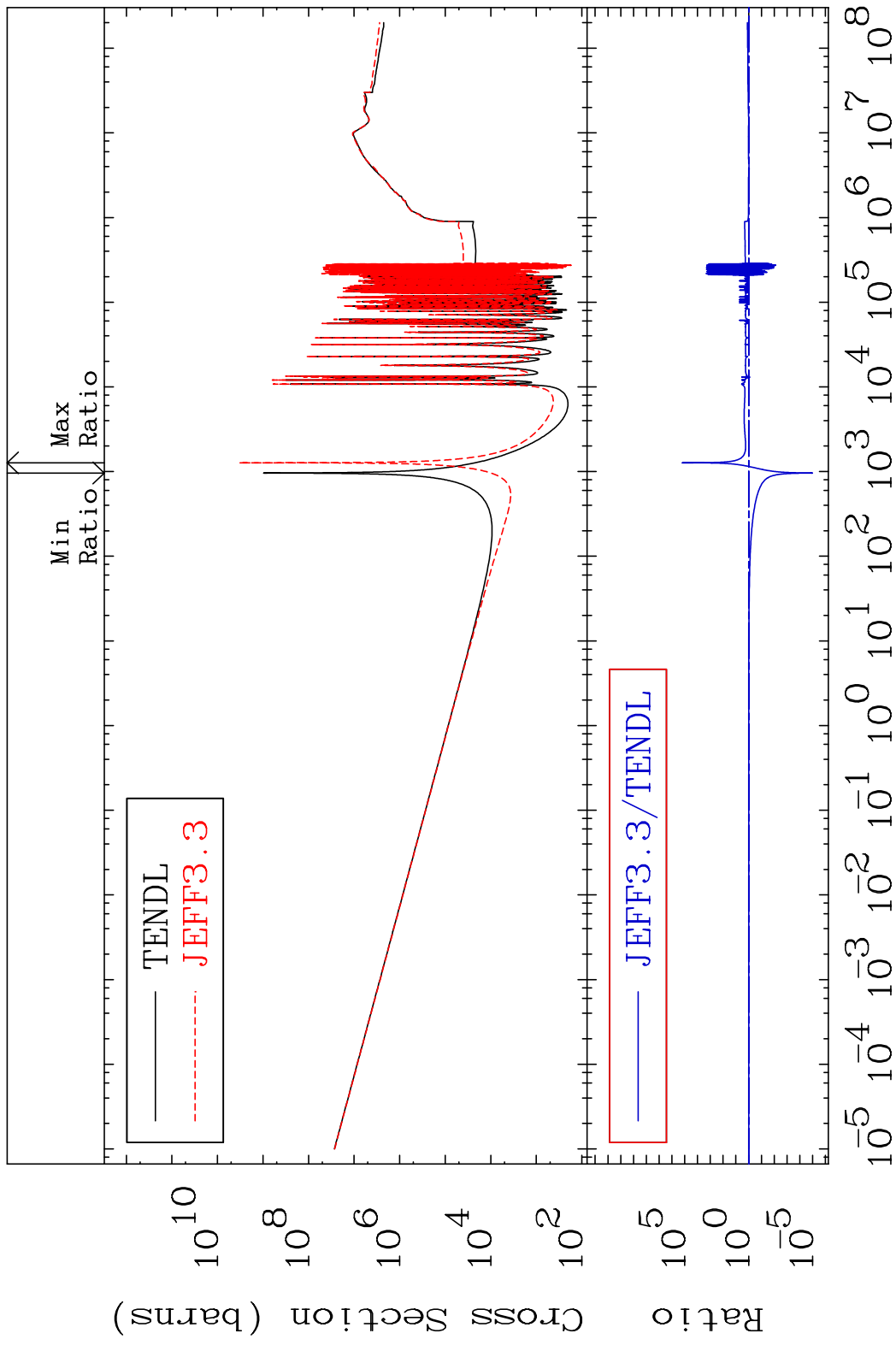
Kerma capture (mt102) 30-Zn-70  
Cross Section -100.0 To 9999. %



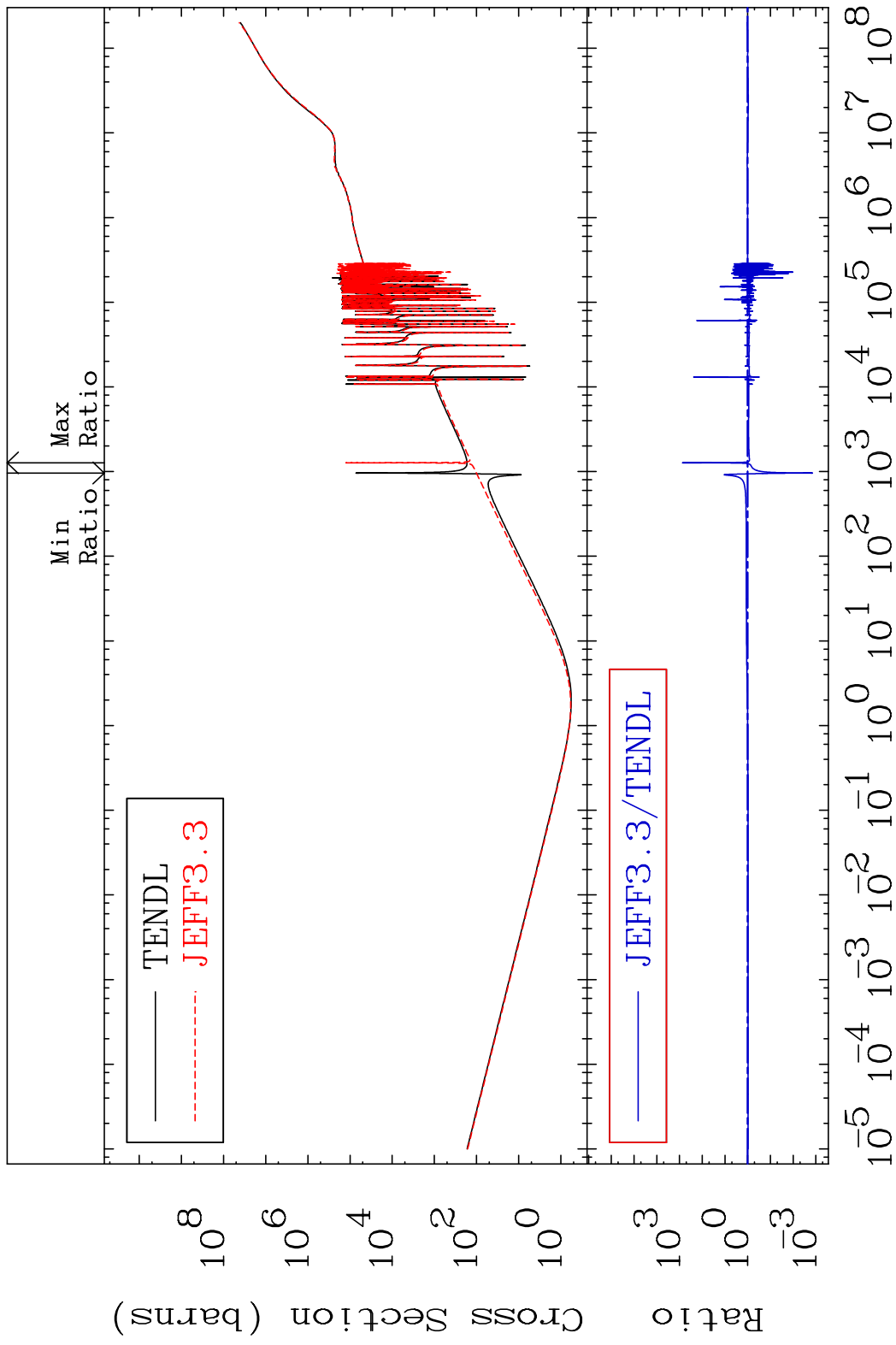
57

30-Zn-70

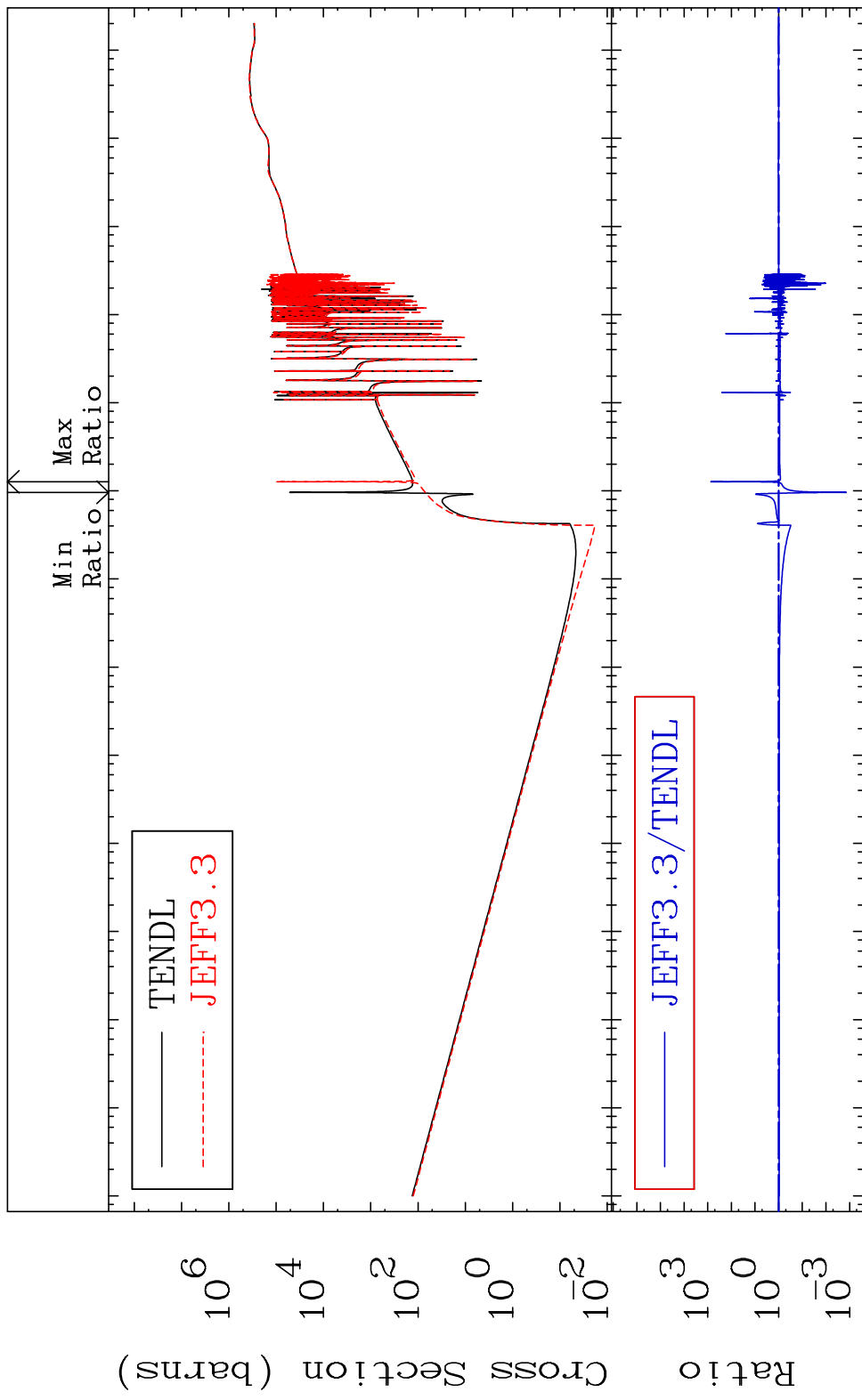
MAT 3043 Total photon (eV-barns) 30-Zn-70  
 Cross Section -100.0 To 9999. %



MAT 3043 Total kinematic kerma (high limit) 30-Zn-70  
 Cross Section -99.86 To 9999. %



MAT 3043      Dpa total (eV-barns)      30-Zn-70  
 Cross Section      -99.86 To 9999. %



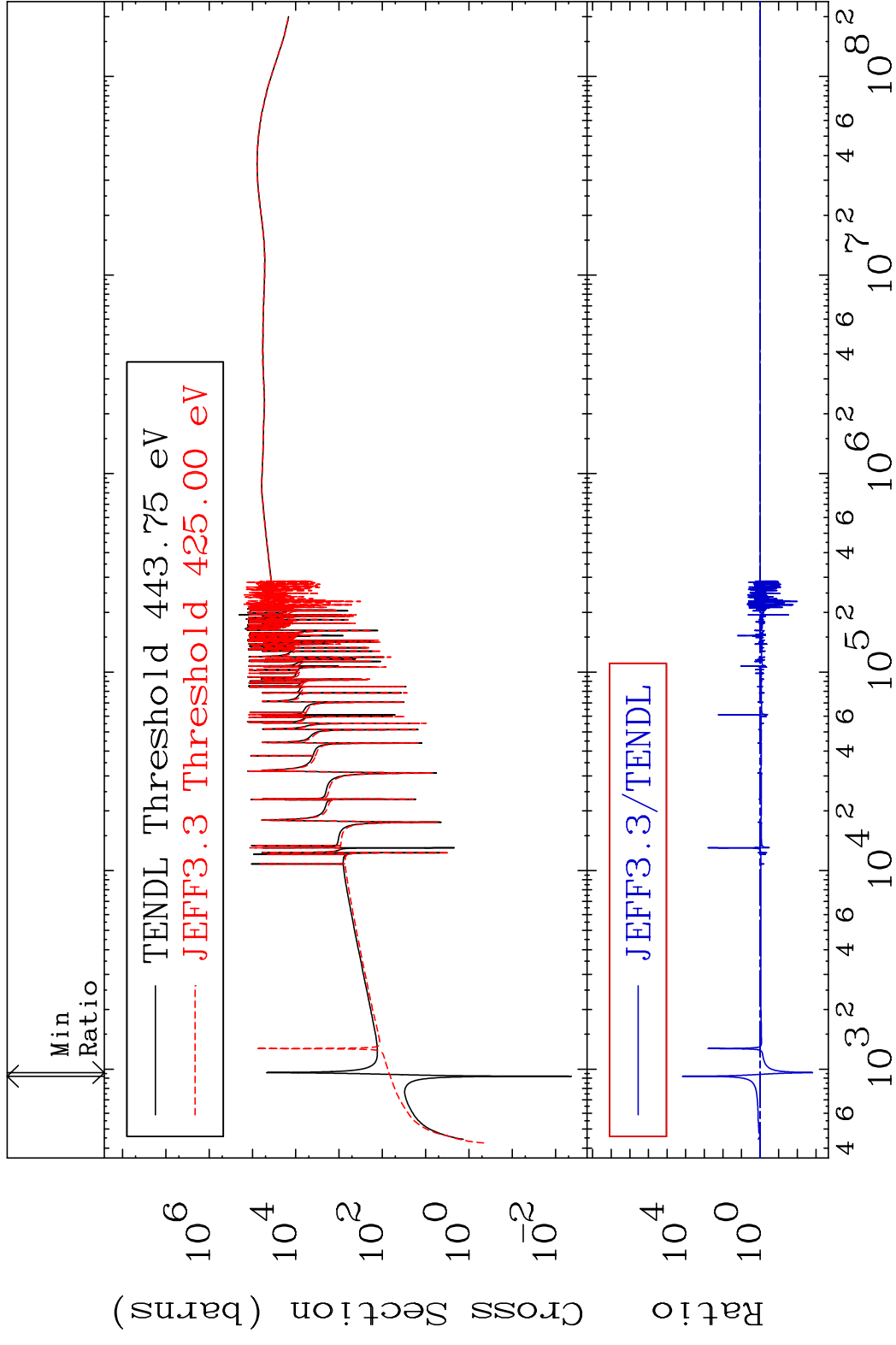
60      Incident Energy (eV)      30-Zn-70

MAT 3043

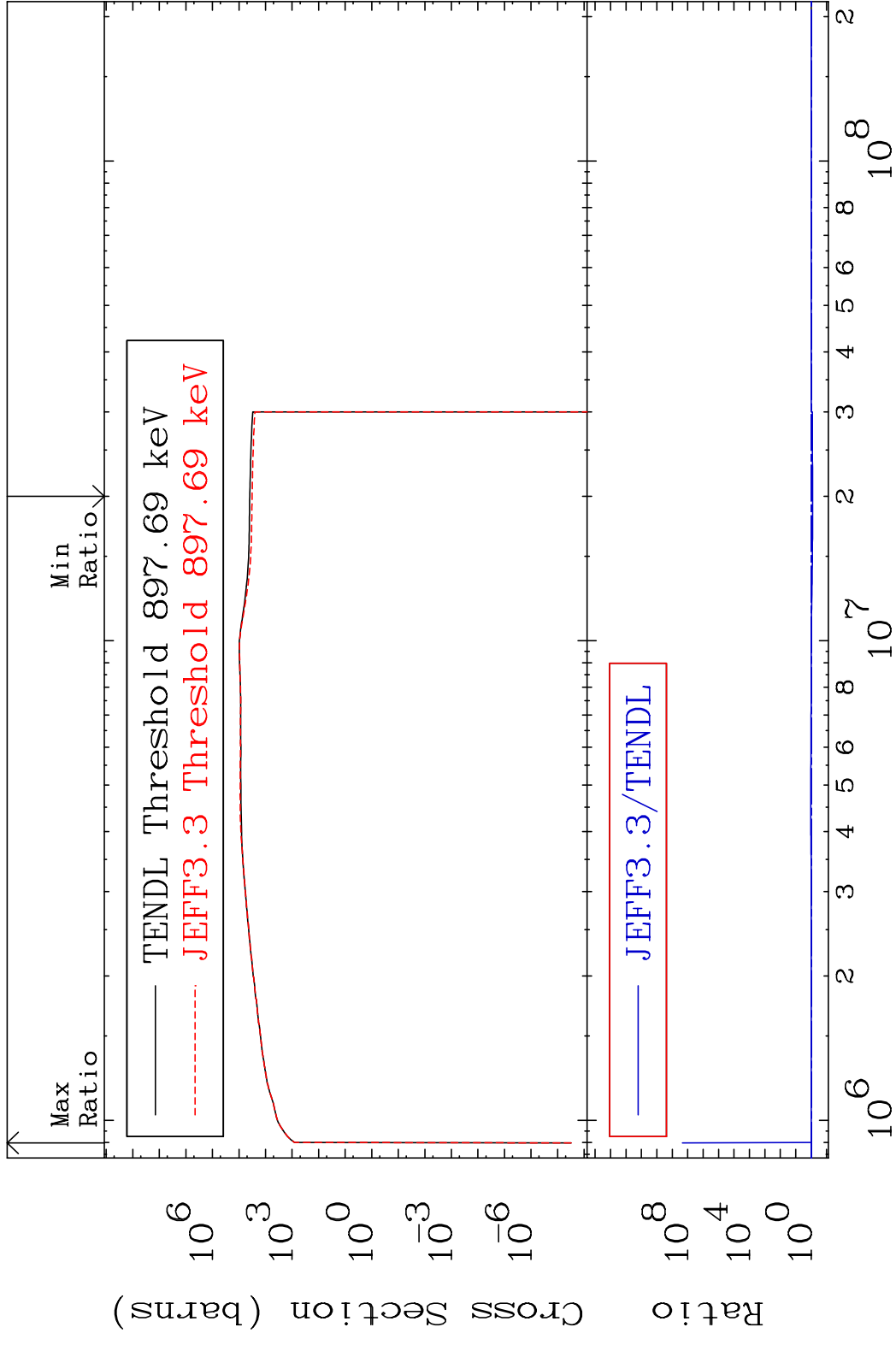
Dpa elastic (mt2)

30-Zn-70

Cross Section -99.85 To 9999. %

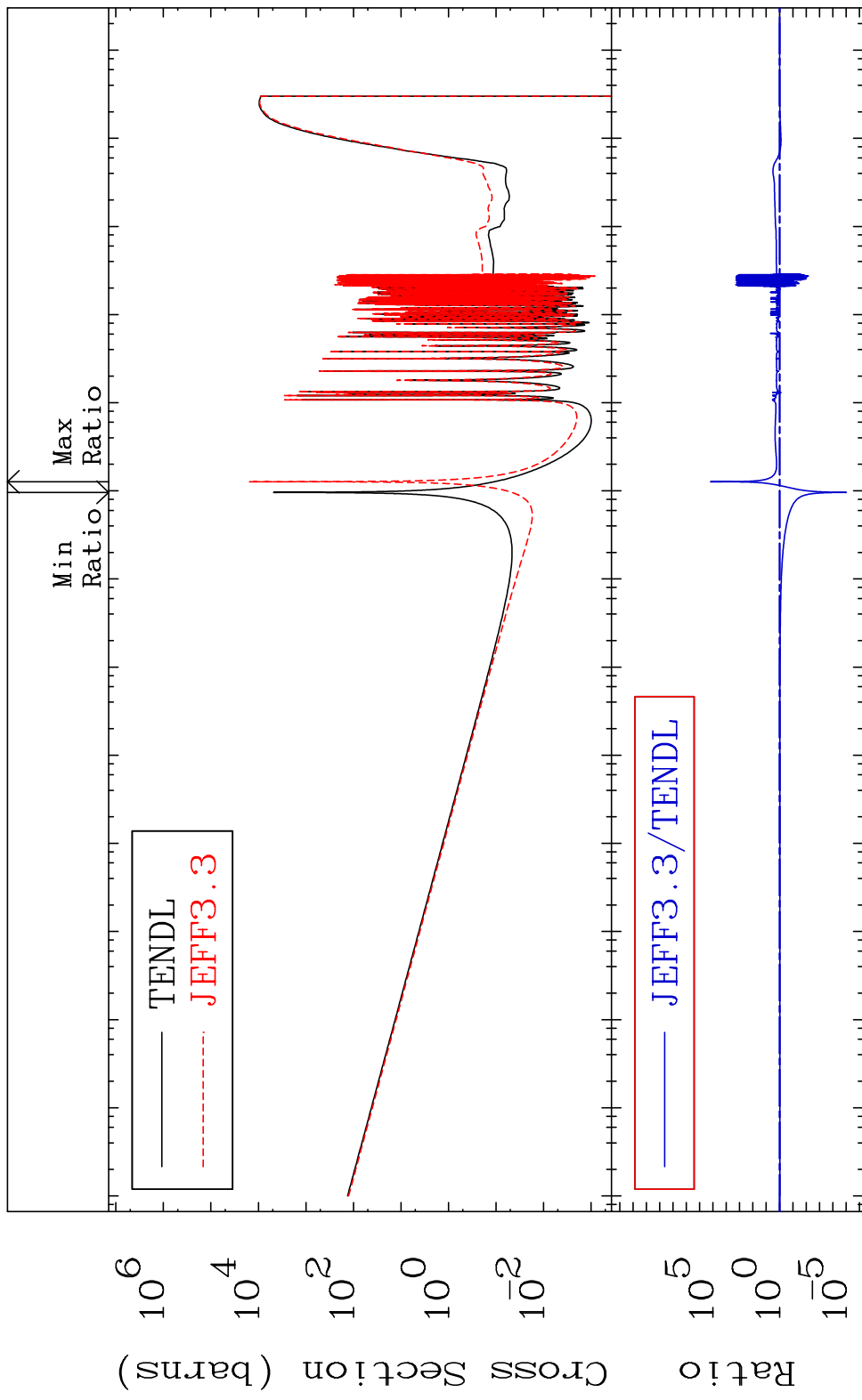


MAT 3043    Dpa inelastic (mt51-91)    30-Zn-70  
 Cross Section    -18.64 To 9999. %



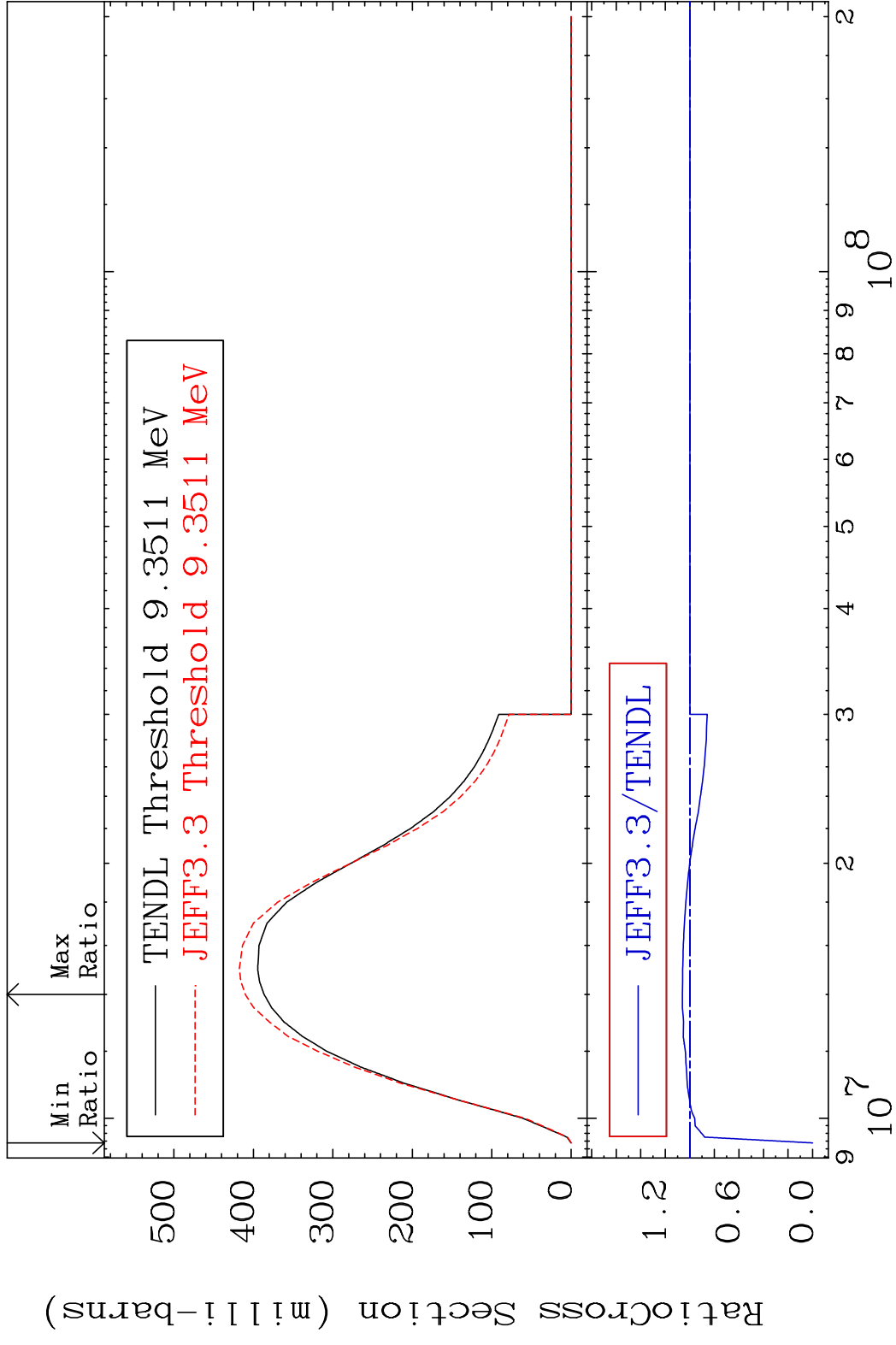
62    Incident Energy (eV)    30-Zn-70

MAT 3043 Dpa disappearance (mt102 -120) 30-Zn-70  
 Cross Section -100.0 To 9999. %



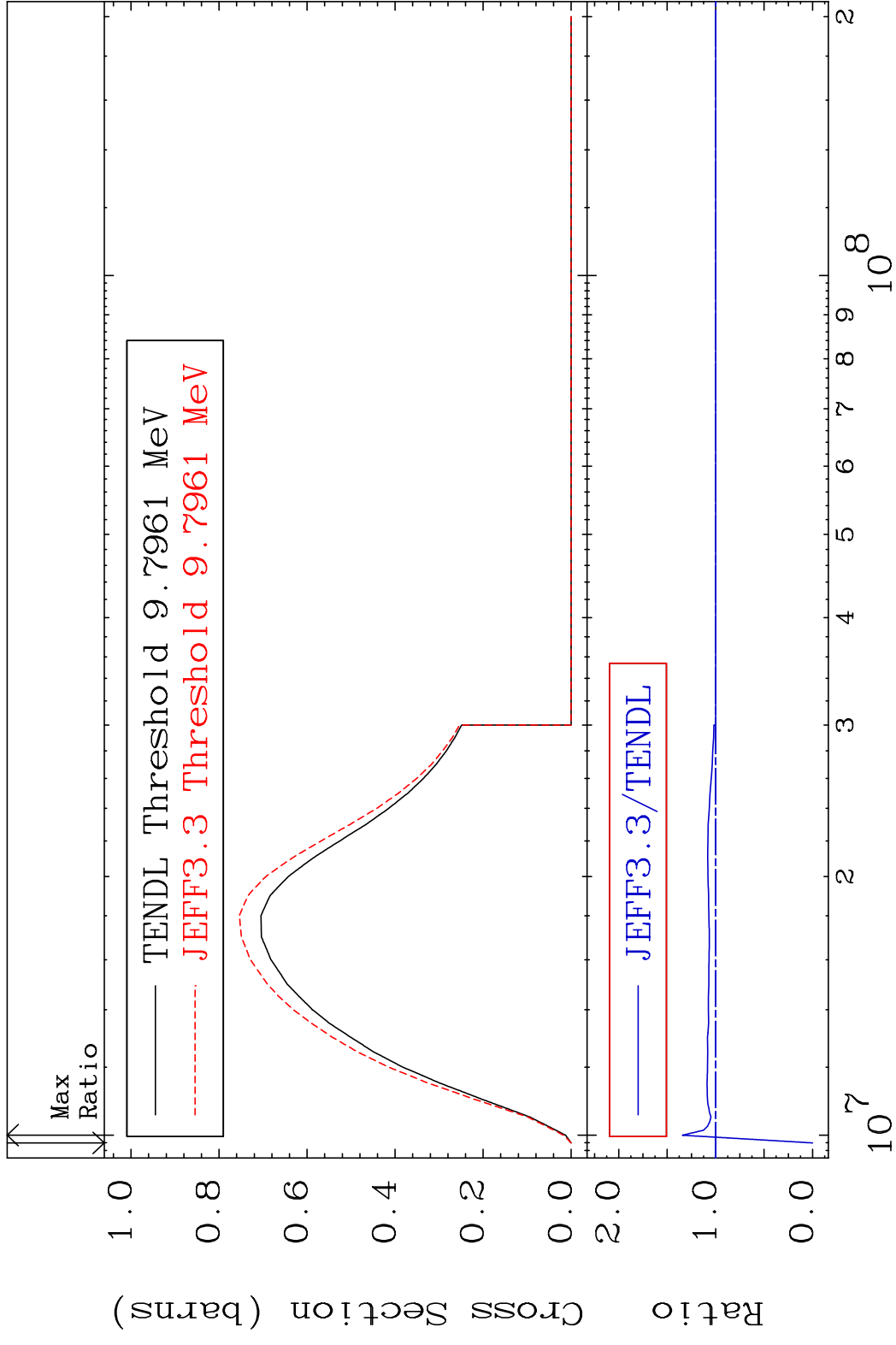


MAT 3043 (n,2n):30-Zn-69g 30-Zn-70  
 Radionuclide Production Cross Section Ratio 6.092 %



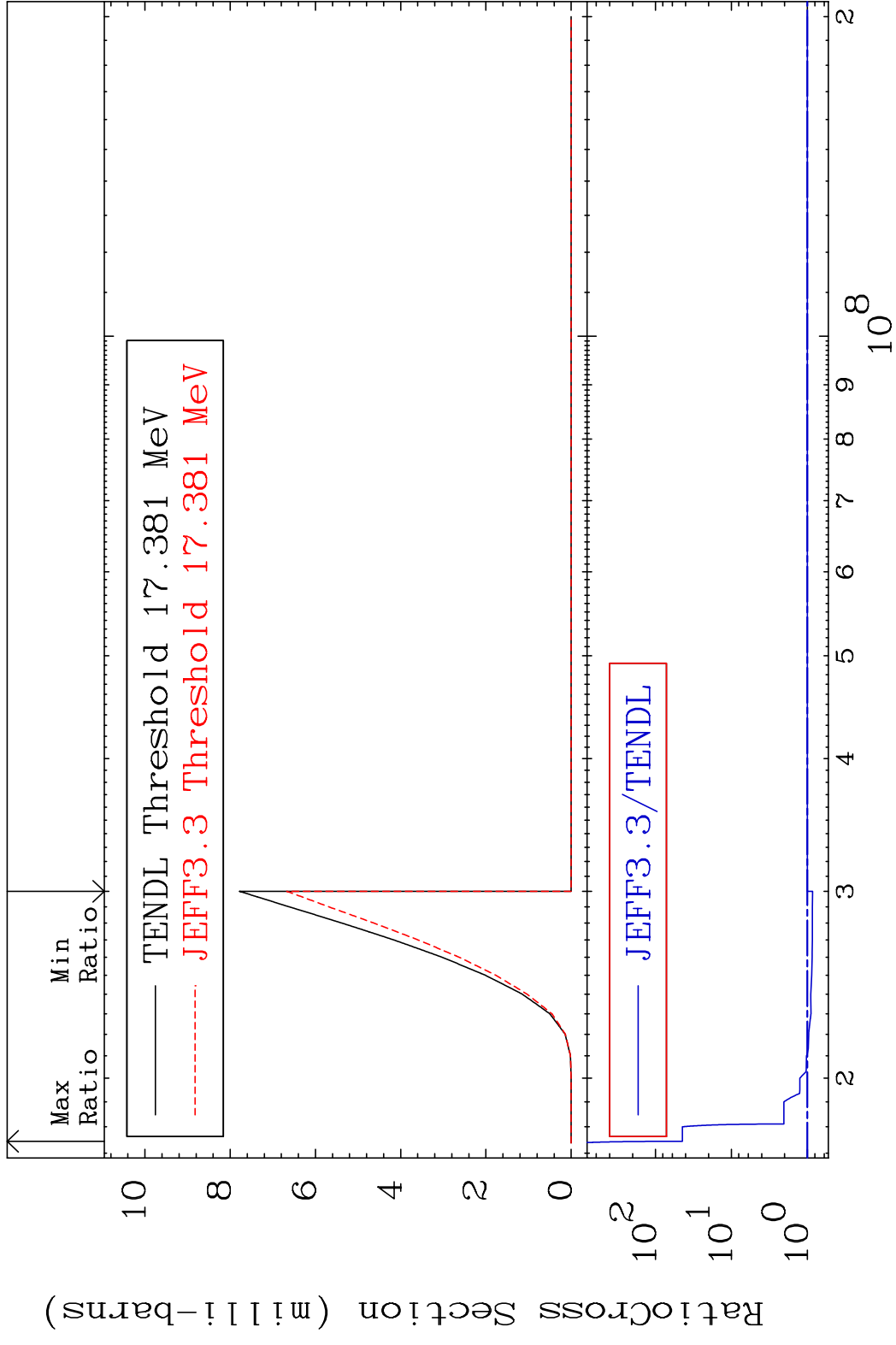
64 Incident Energy (eV) 30-Zn-70

MAT 3043 (n,2n):30-Zn-69m1 30-Zn-70  
 Radionuclide Production Cross Section Ratio 34.35 %

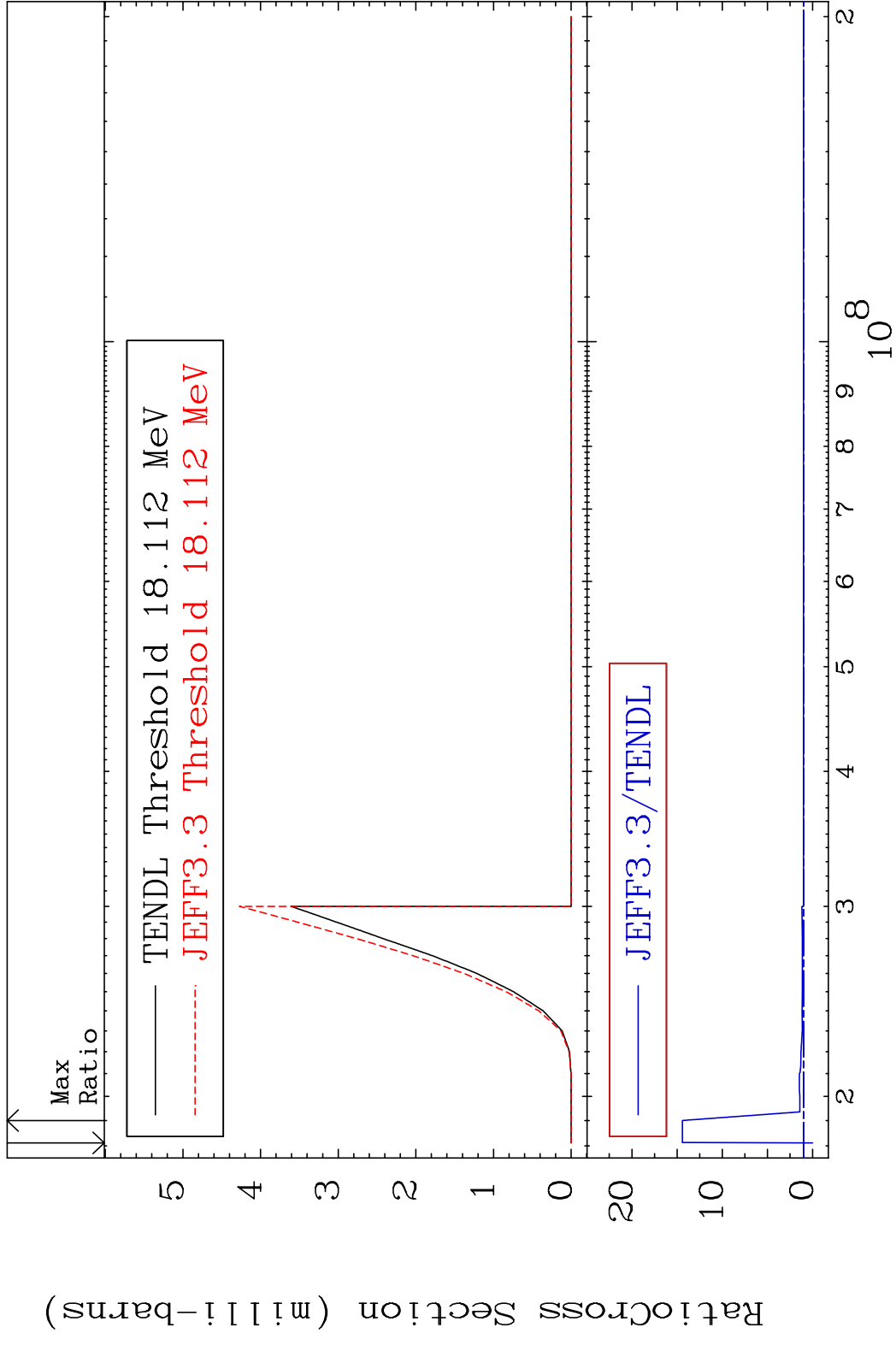


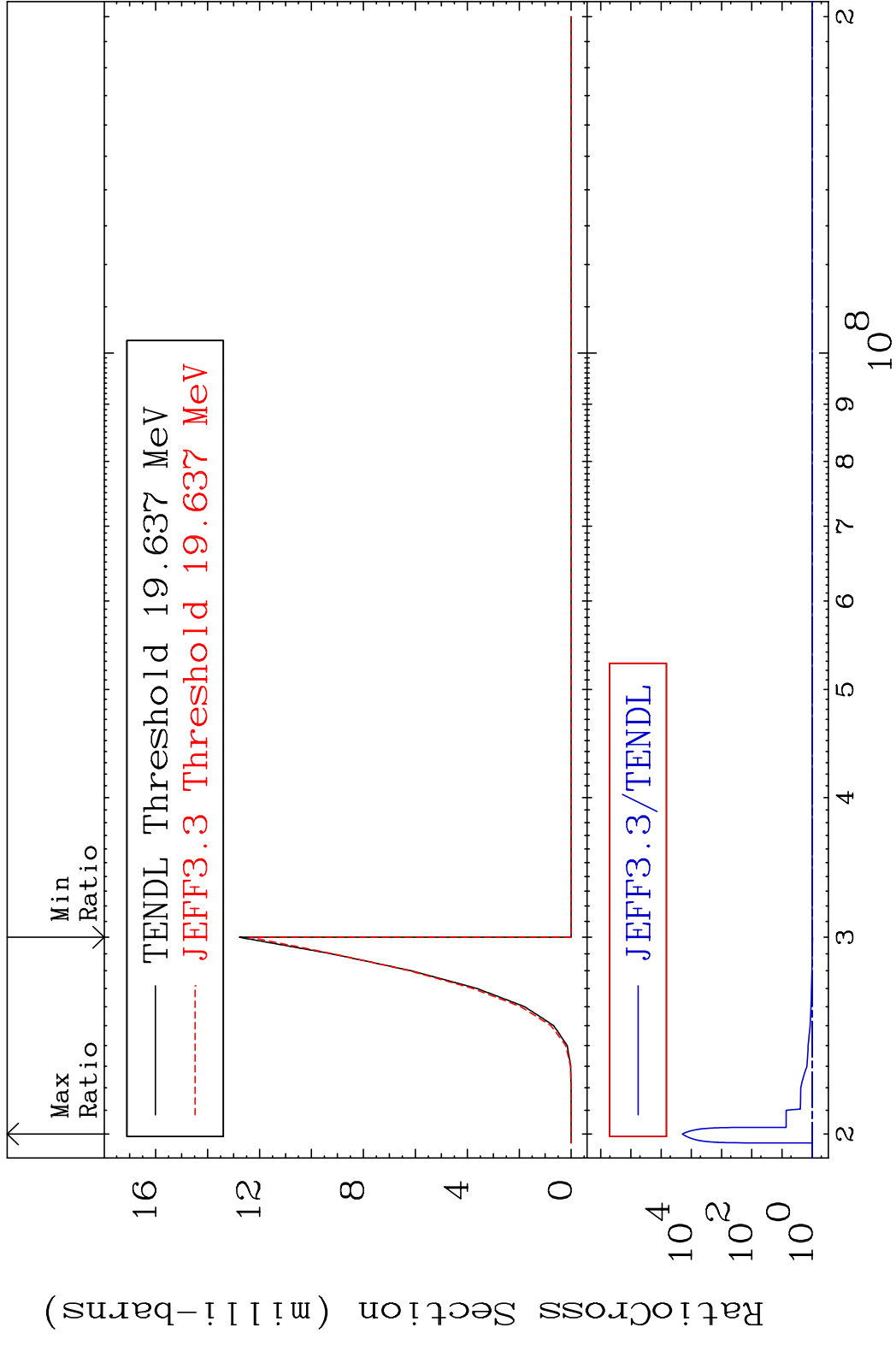
65 Incident Energy (eV) 30-Zn-70

MAT 3043 (n, n') d:29-Cu-68g 30-Zn-70  
 Radionuclide Production Cross Section 4325. %

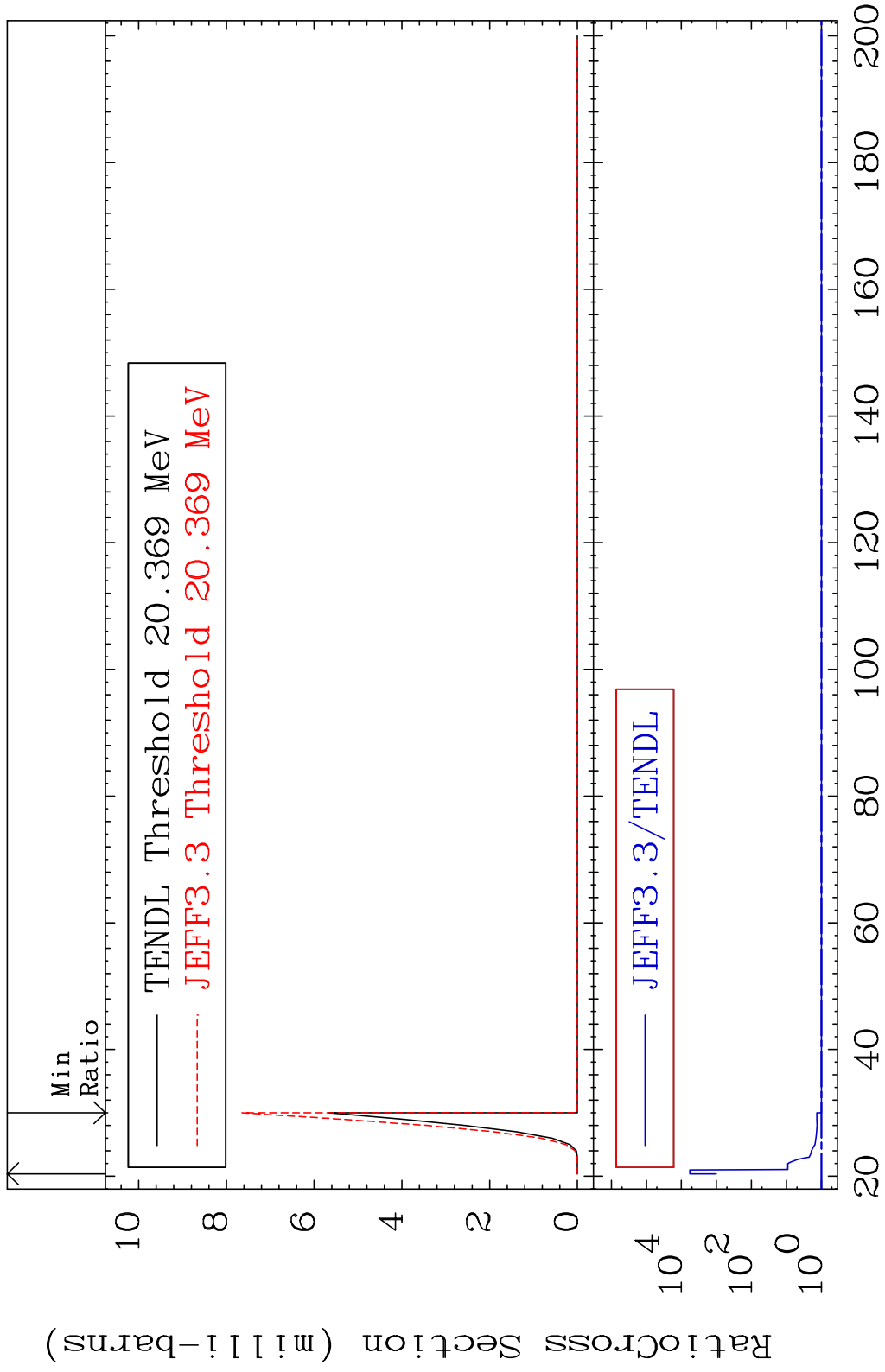


MAT 3043 (n, n') d:29-Cu-68m3 30-Zn-70  
 Radionuclide Production Cross Section 1341. %

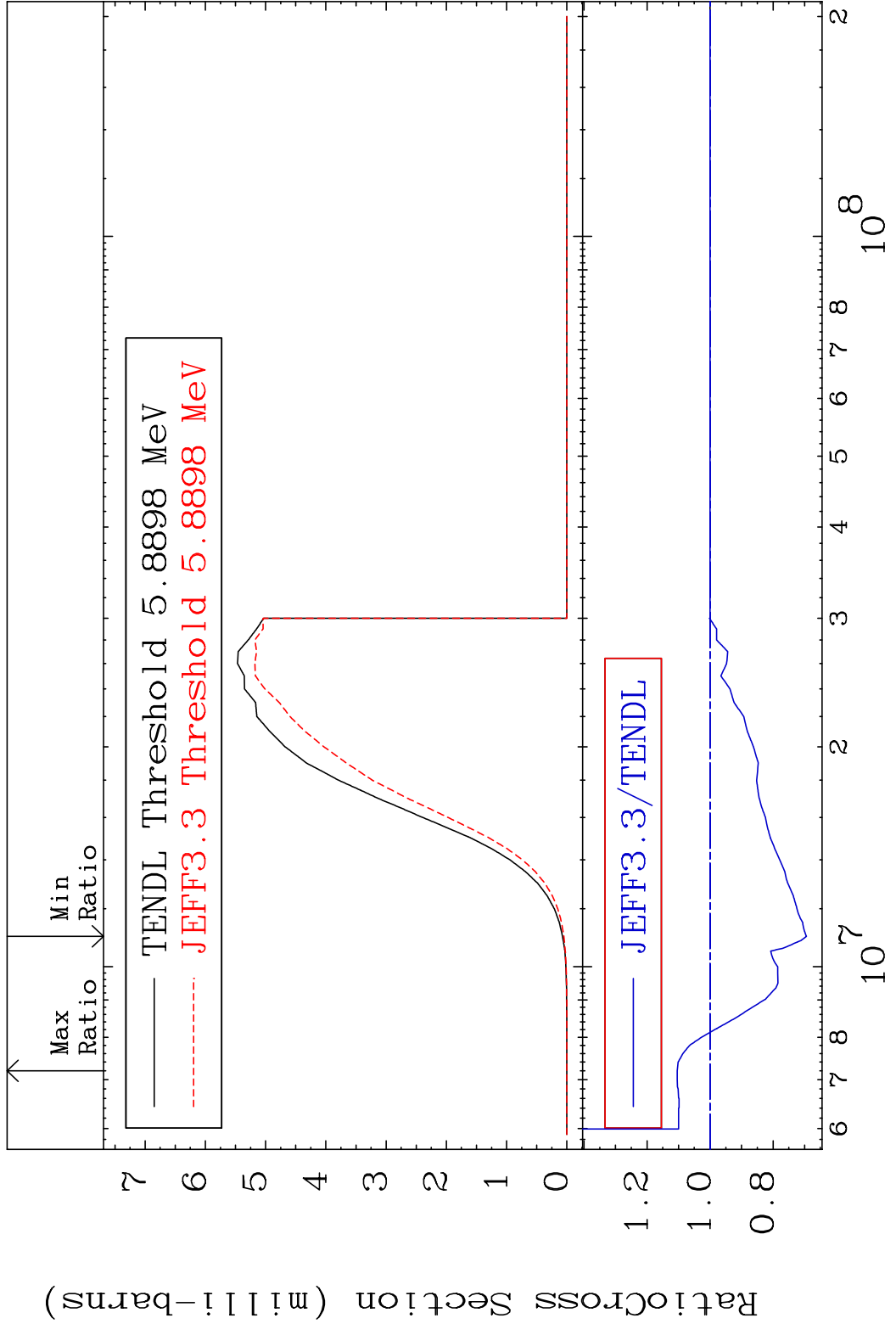




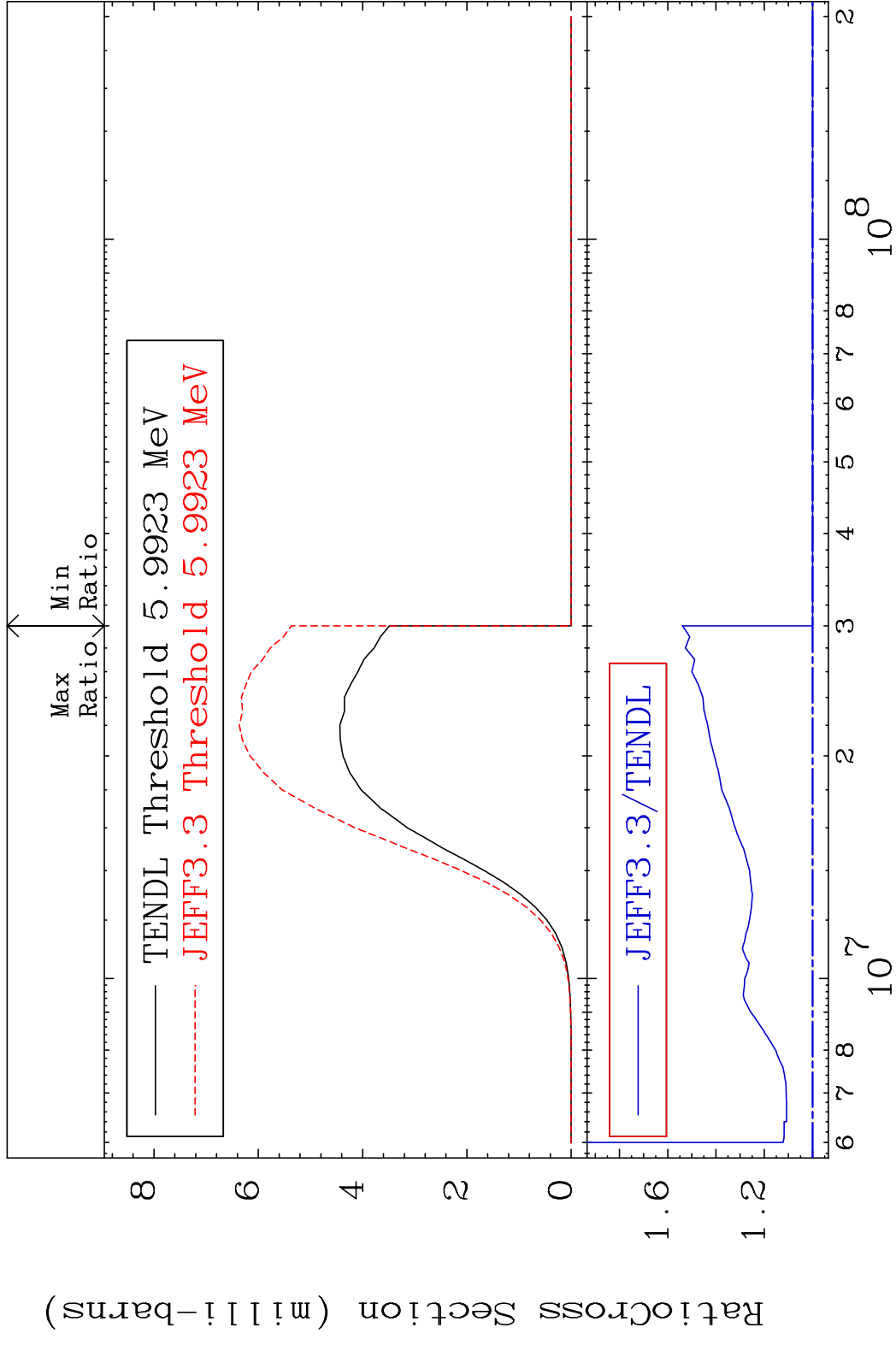
MAT 3043 (n,2n) p:29-Cu-68m3 30-Zn-70  
 Radionuclide Production Cross Section 9999. %



MAT 3043 (n, p) : 29-Cu-70g 30-Zn-70  
 Radionuclide Production Cross Section 10.43 %

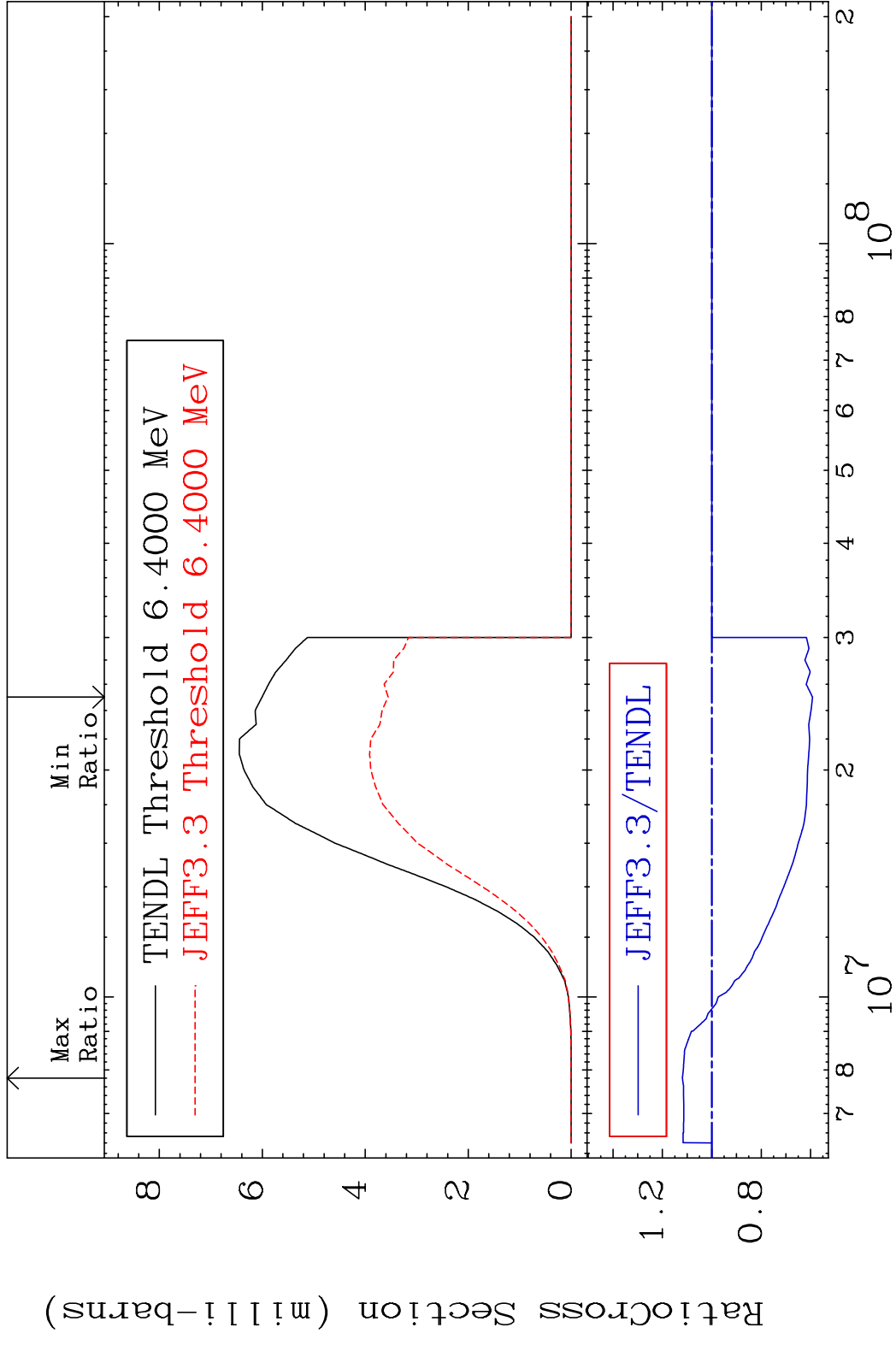


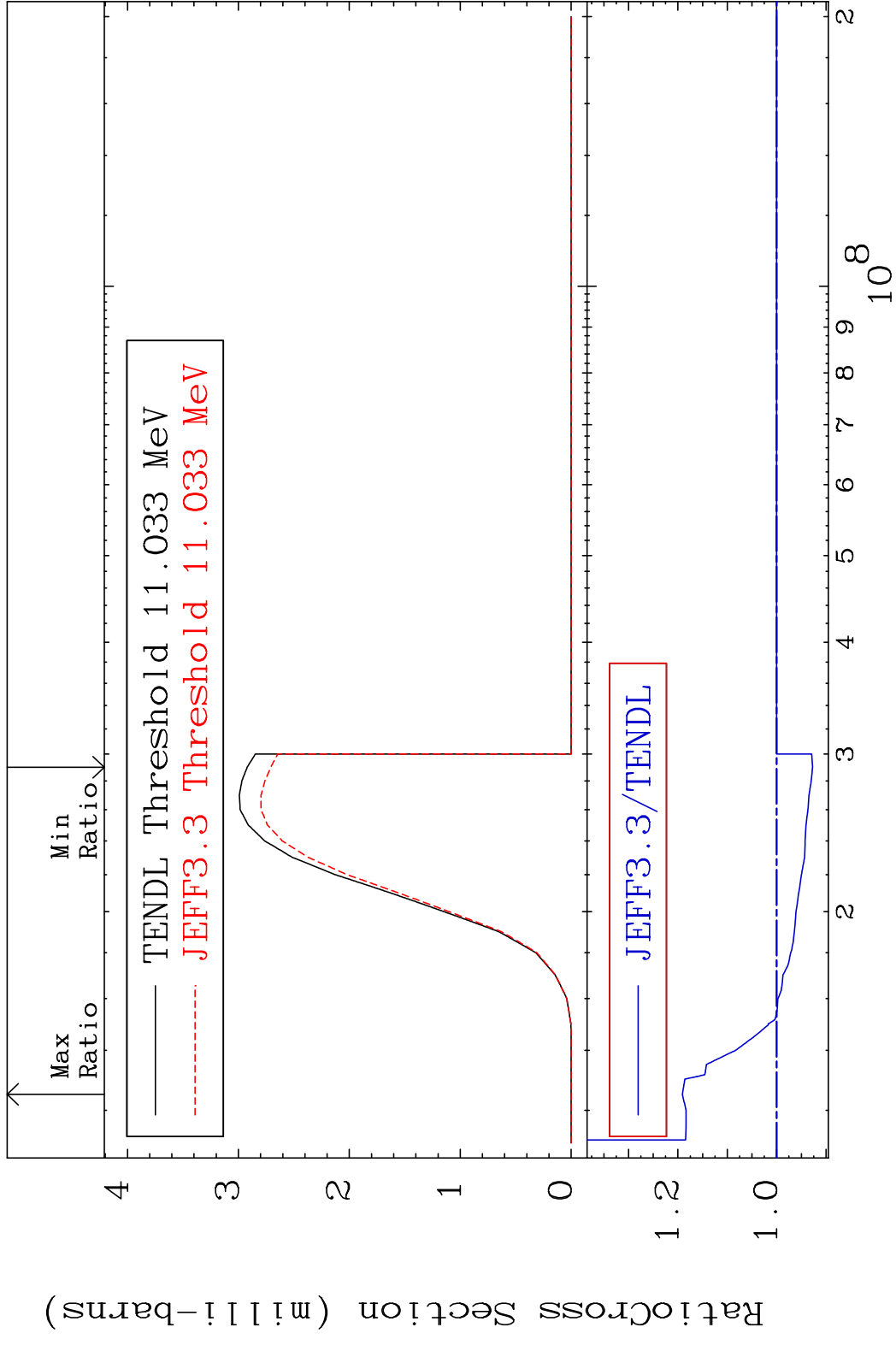
MAT 3043 (n,p):29-Cu-70m1 30-Zn-70  
 Radionuclide Production Cross Section 53.93 %





MAT 3043 (n,p):29-Cu-70m3 30-Zn-70  
 Radionuclide Production Cross Section 11.93 %





MAT 3043 (n,t):29-Cu-68m3 30-Zn-70  
 Radionuclide Production Cross Section 27.83 %

