

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)

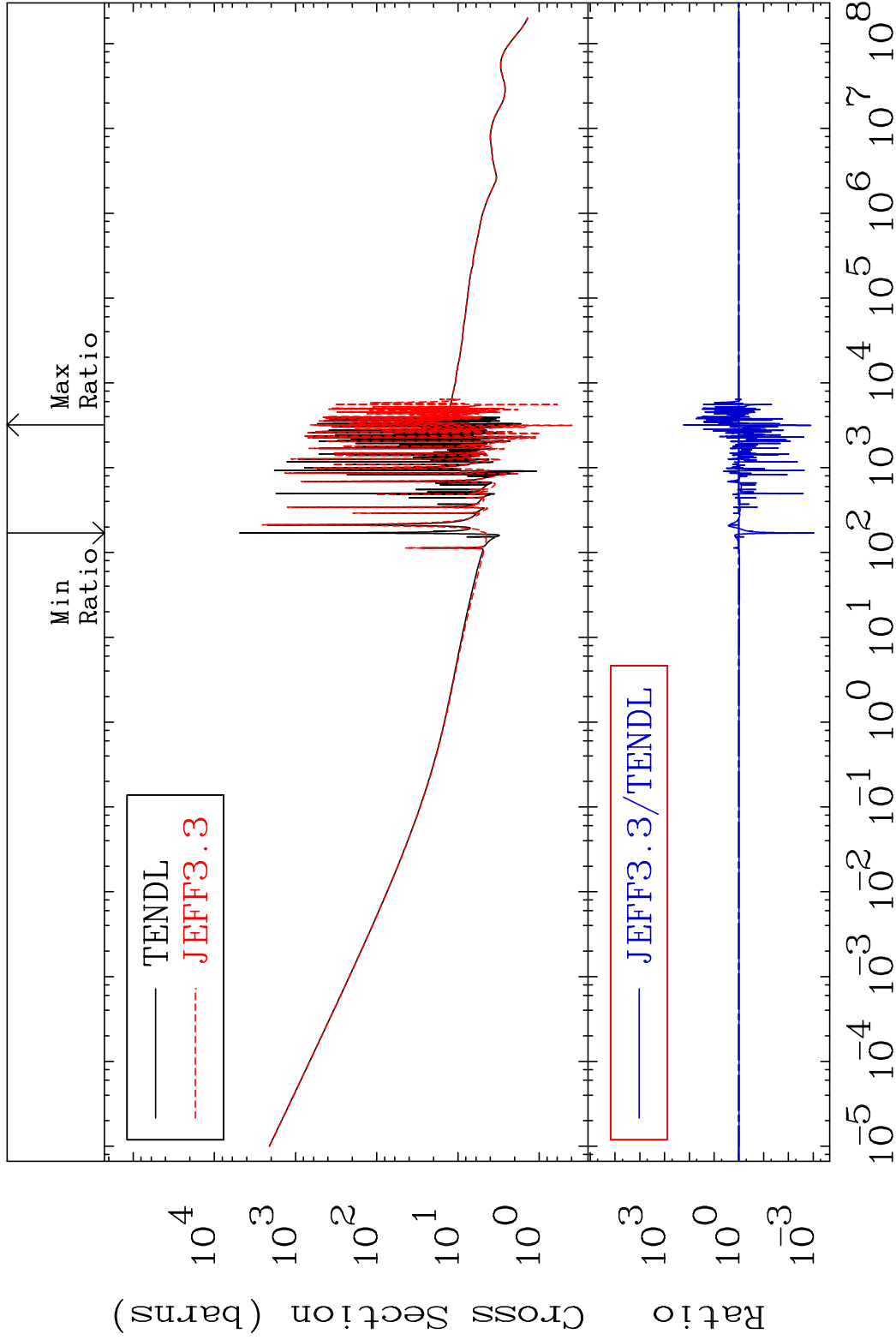
Press Mouse Button to Start

MAT 3434

Total

34-Se-77

Cross Section -99.91 To 9999. %



1

Incident Energy (eV)

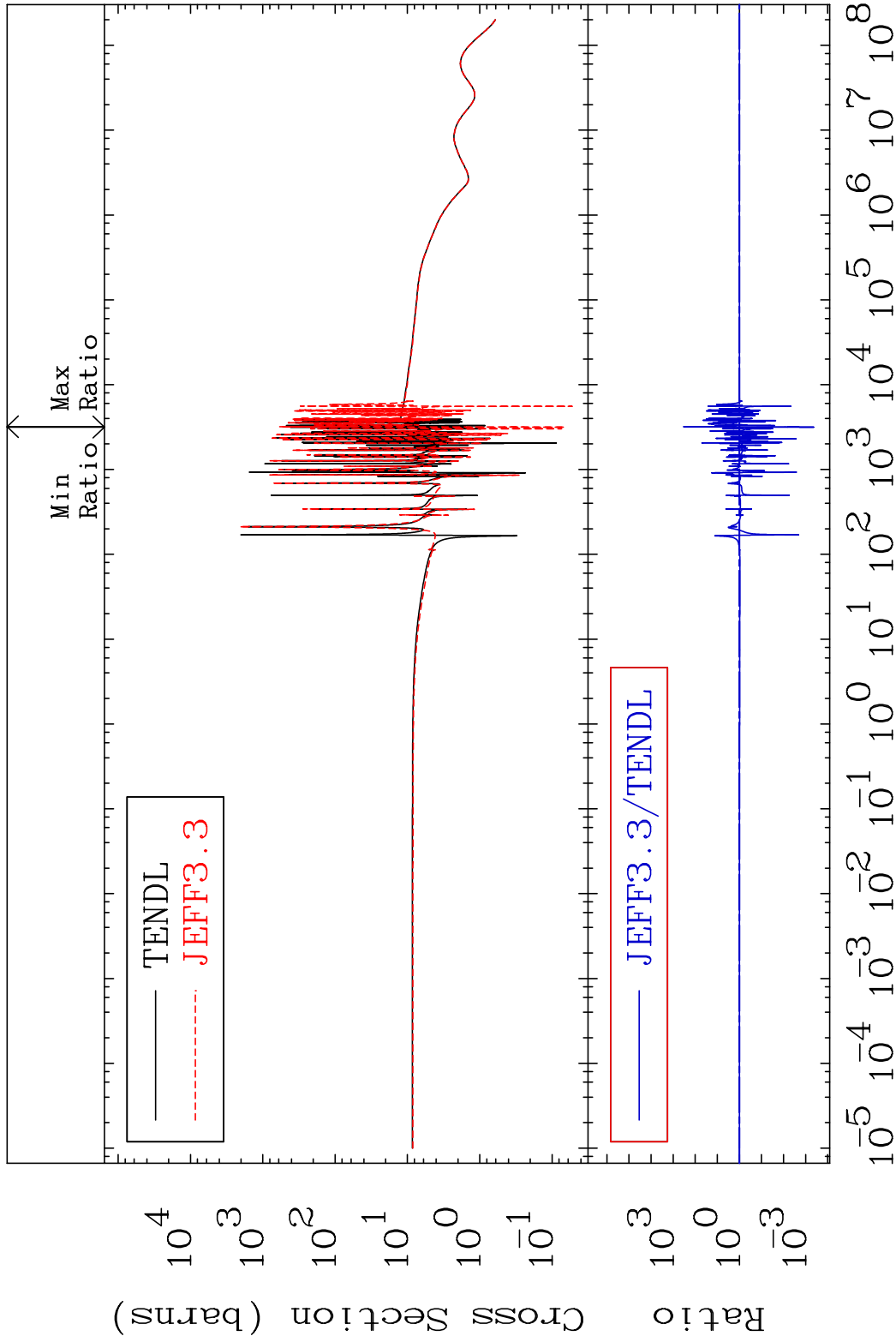
34-Se-77

MAT 3434

Elastic

34-Se-77

Cross Section -99.96 To 9999. %



2

Incident Energy (eV)

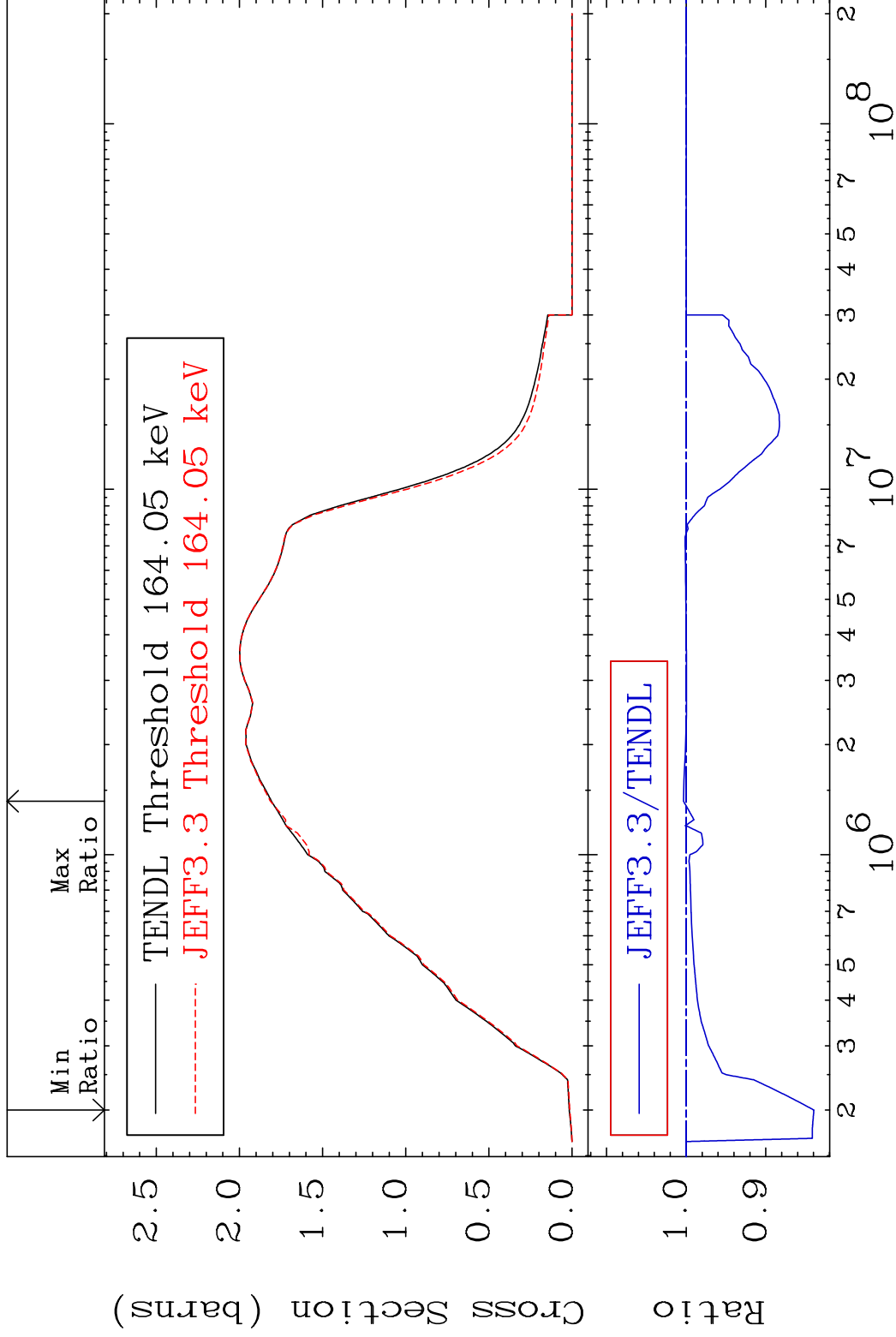
34-Se-77

MAT 3434

Inelastic

<sup>34</sup>Se-77

Cross Section -16.04 To 0.344 %

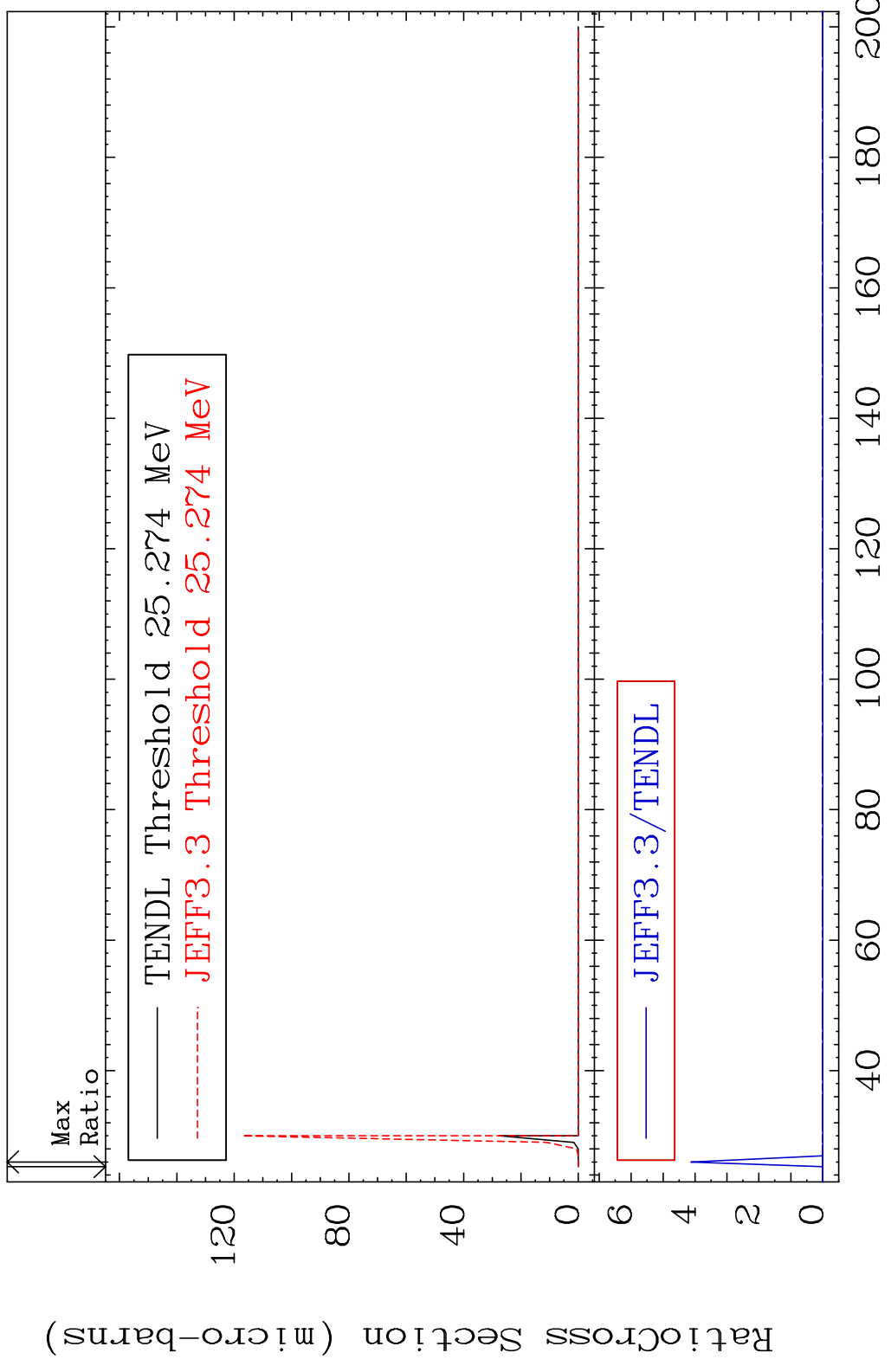


3

Incident Energy (eV)

<sup>34</sup>Se-77

MAT 3434 (n,2n) d 34-Se-77  
Cross Section -100.0 To 9999. %

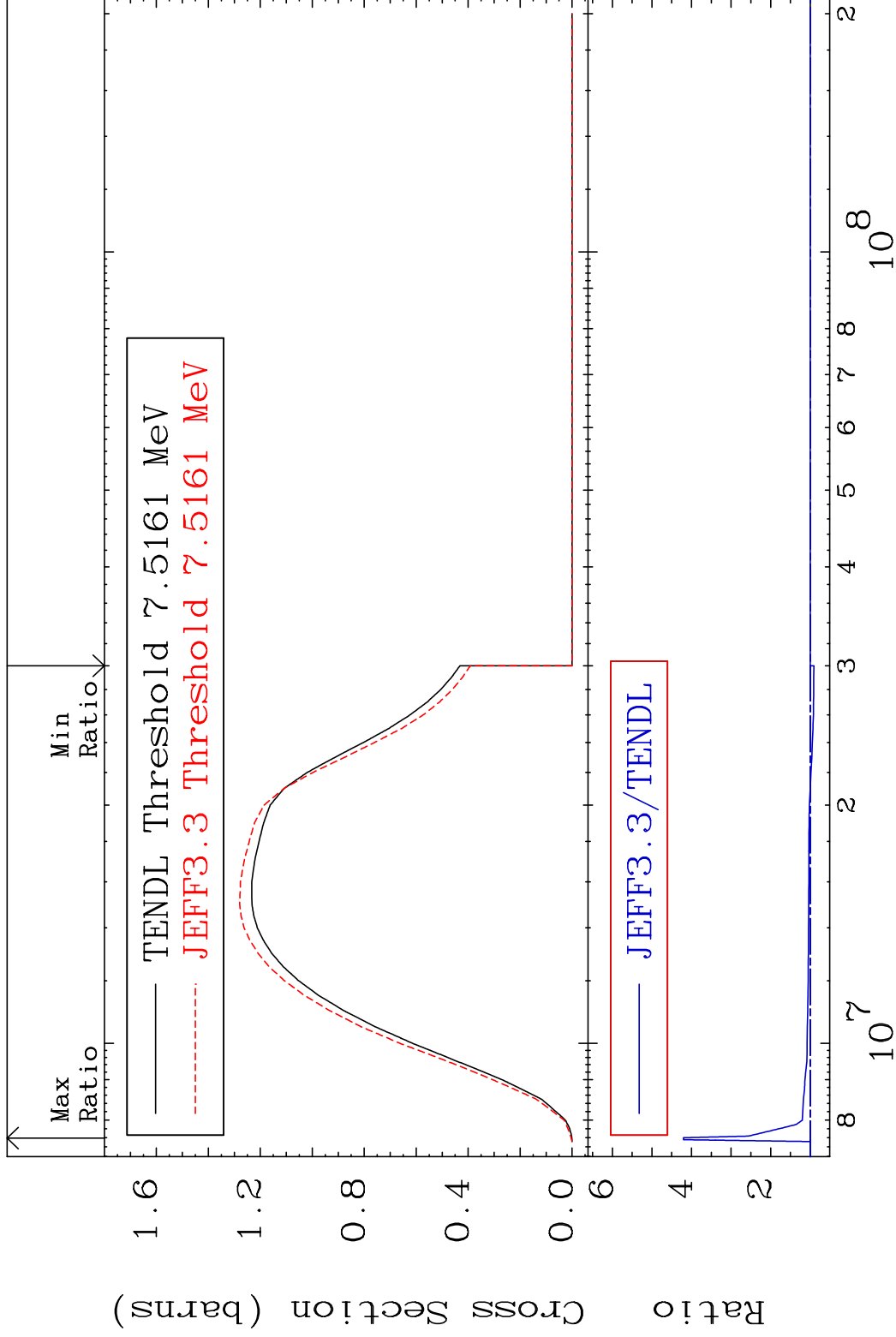


MAT 3434

(n,2n)

<sup>34</sup>Se-77

Cross Section -9.281 To 320.4 %

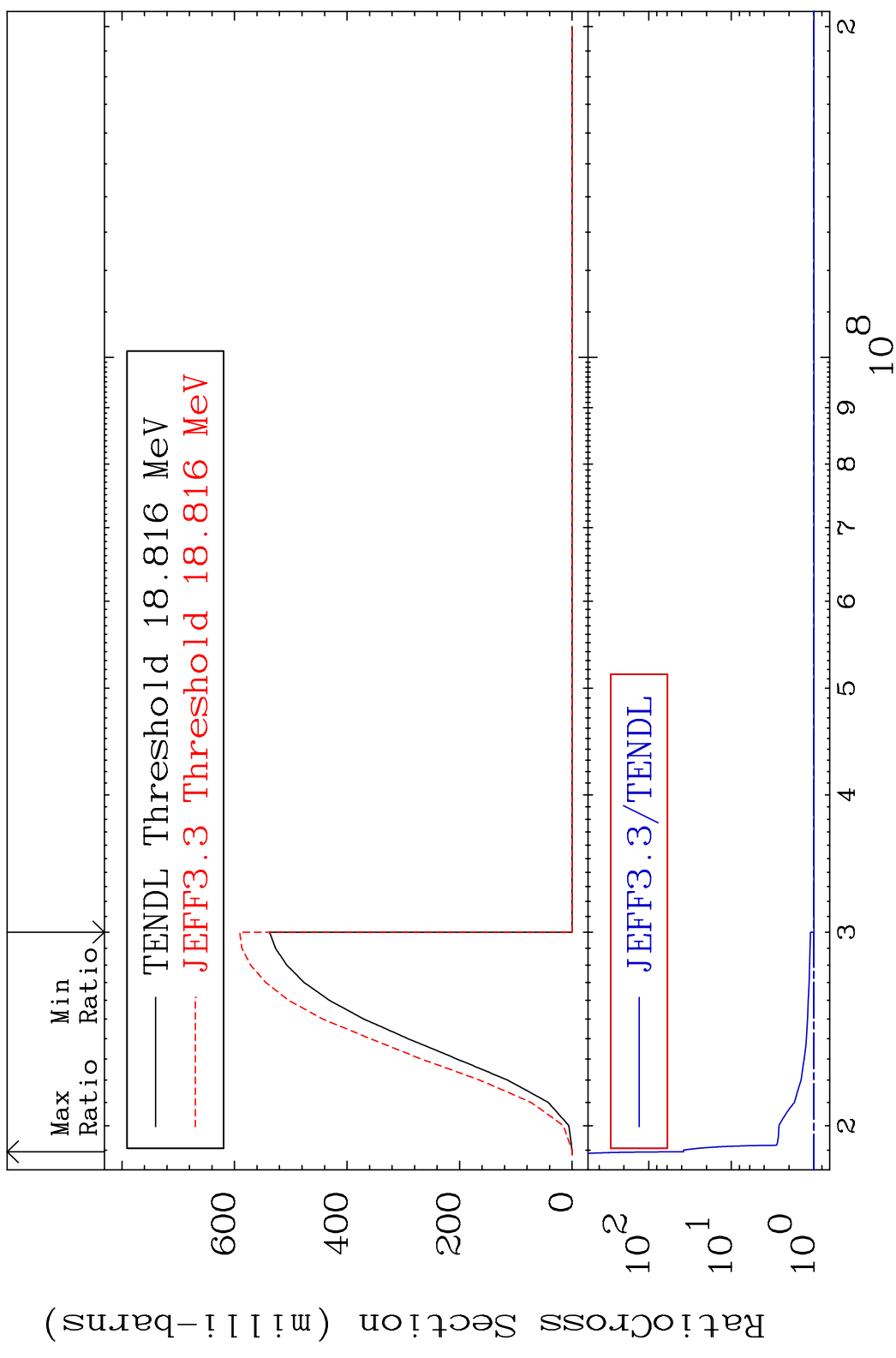


5

Incident Energy (eV)

<sup>34</sup>Se-77

MAT 3434 (n,3n) 34-Se-77  
 Cross Section 0.000 To 3704. %

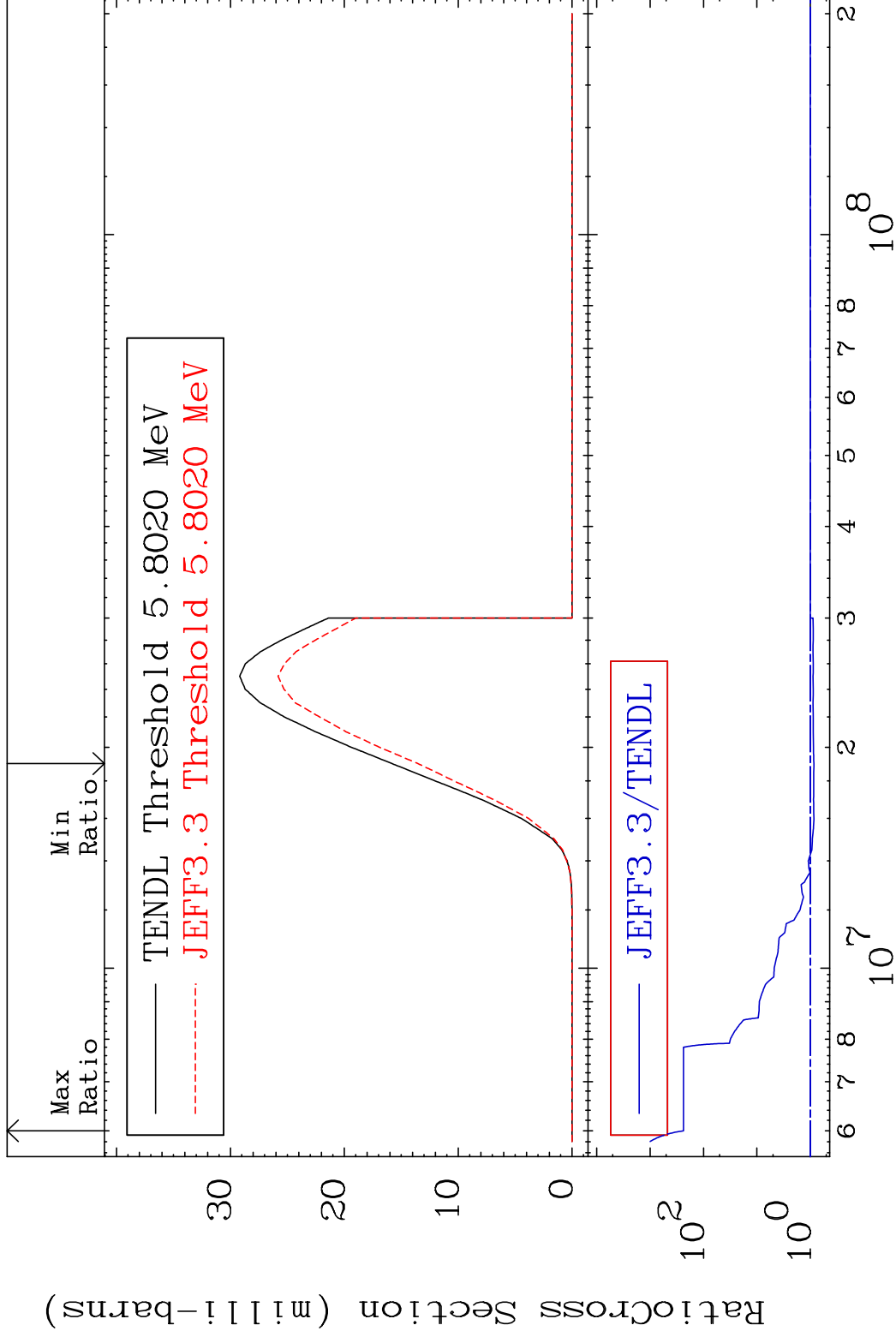


MAT 3434

(n, n')  $\alpha$

34-Se-77

Cross Section -14.38 To 9999. %



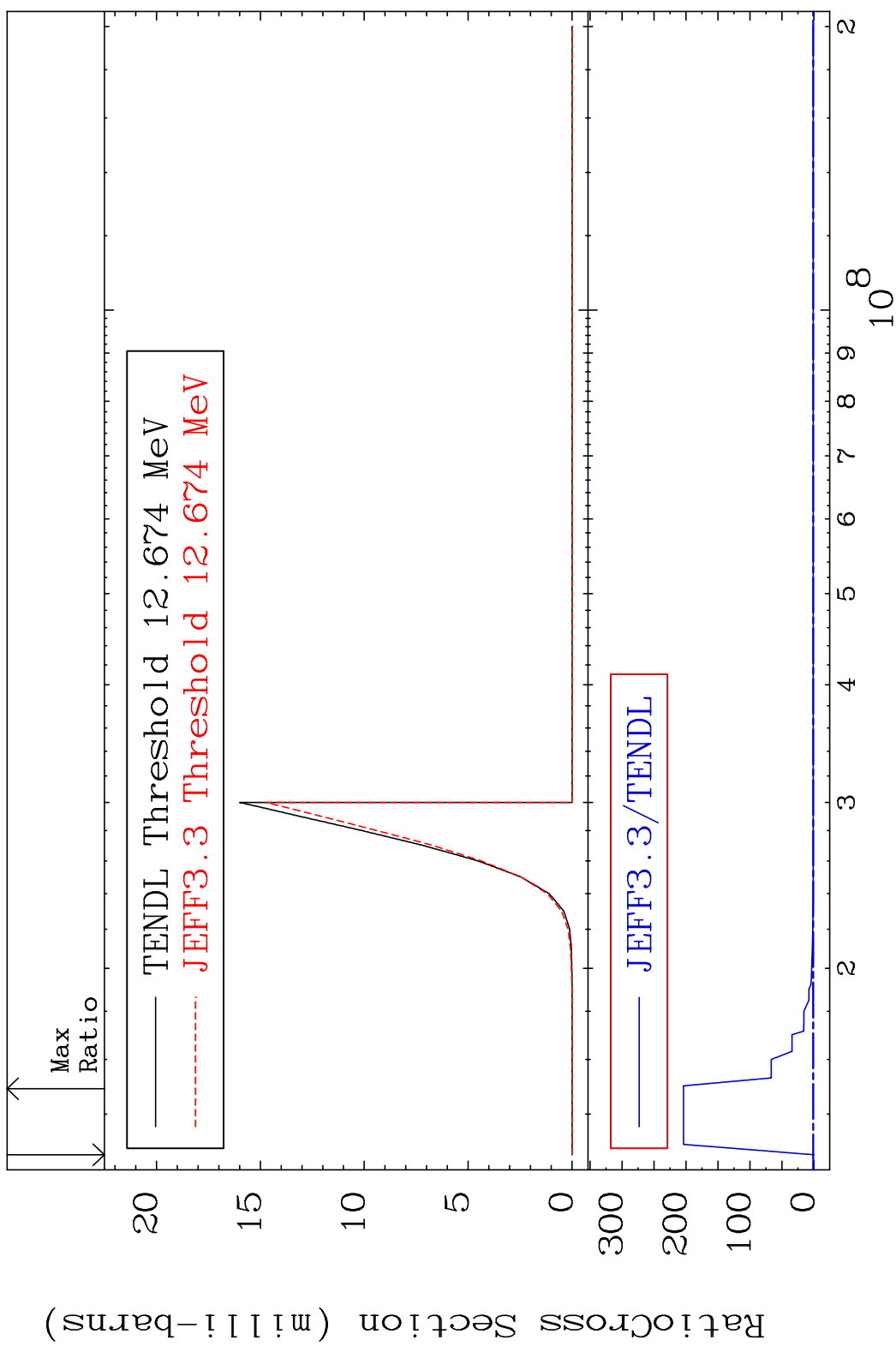
7

Incident Energy (eV)

34-Se-77



MAT 3434 (n,2n)  $\alpha$   $^{34}\text{Se-77}$   
 Cross Section -100.0 To 9999. %

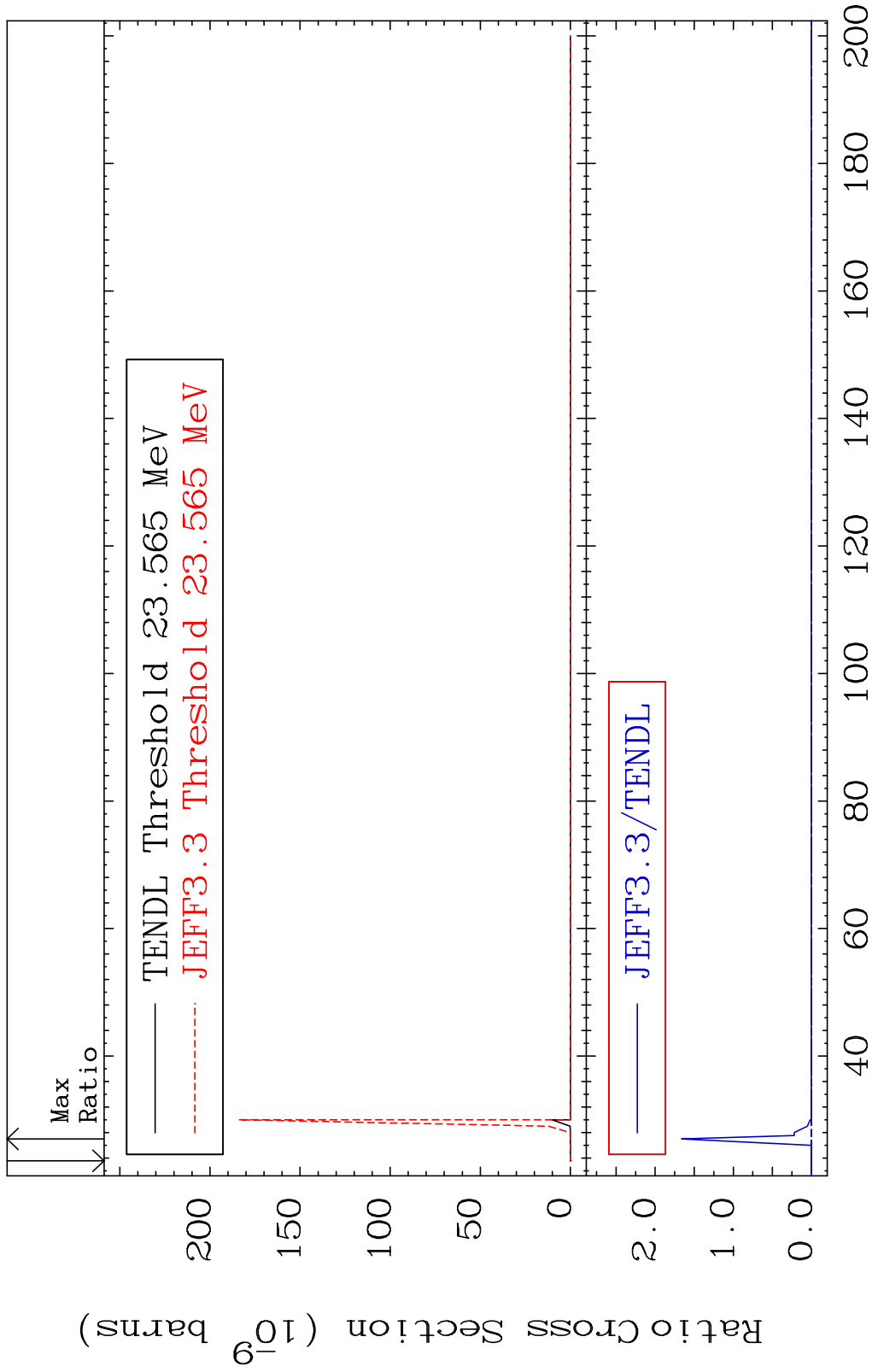


MAT 3434

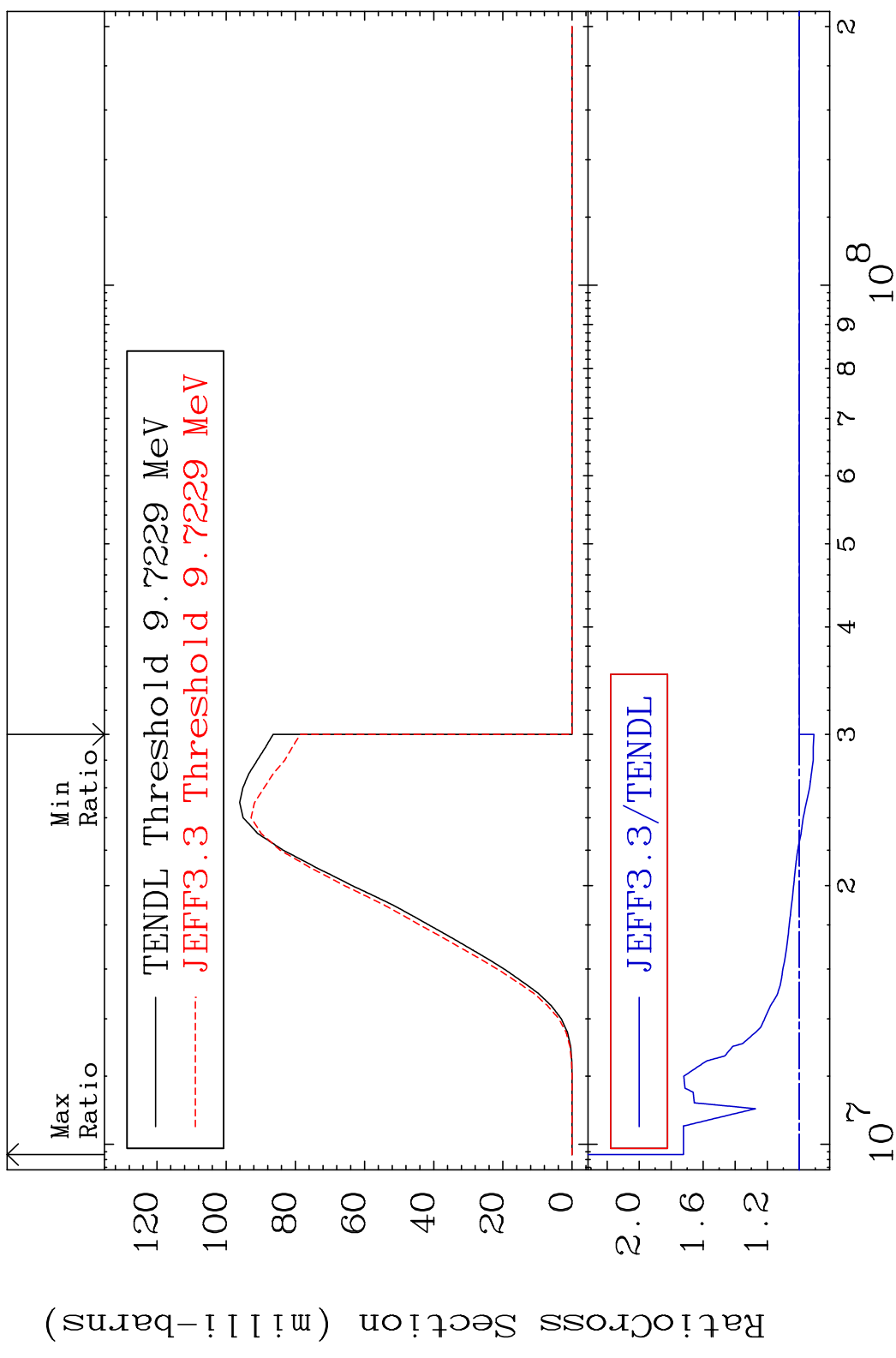
(n, 3n)  $\alpha$

<sup>34</sup>Se-77

Cross Section -100.0 To 9999. %

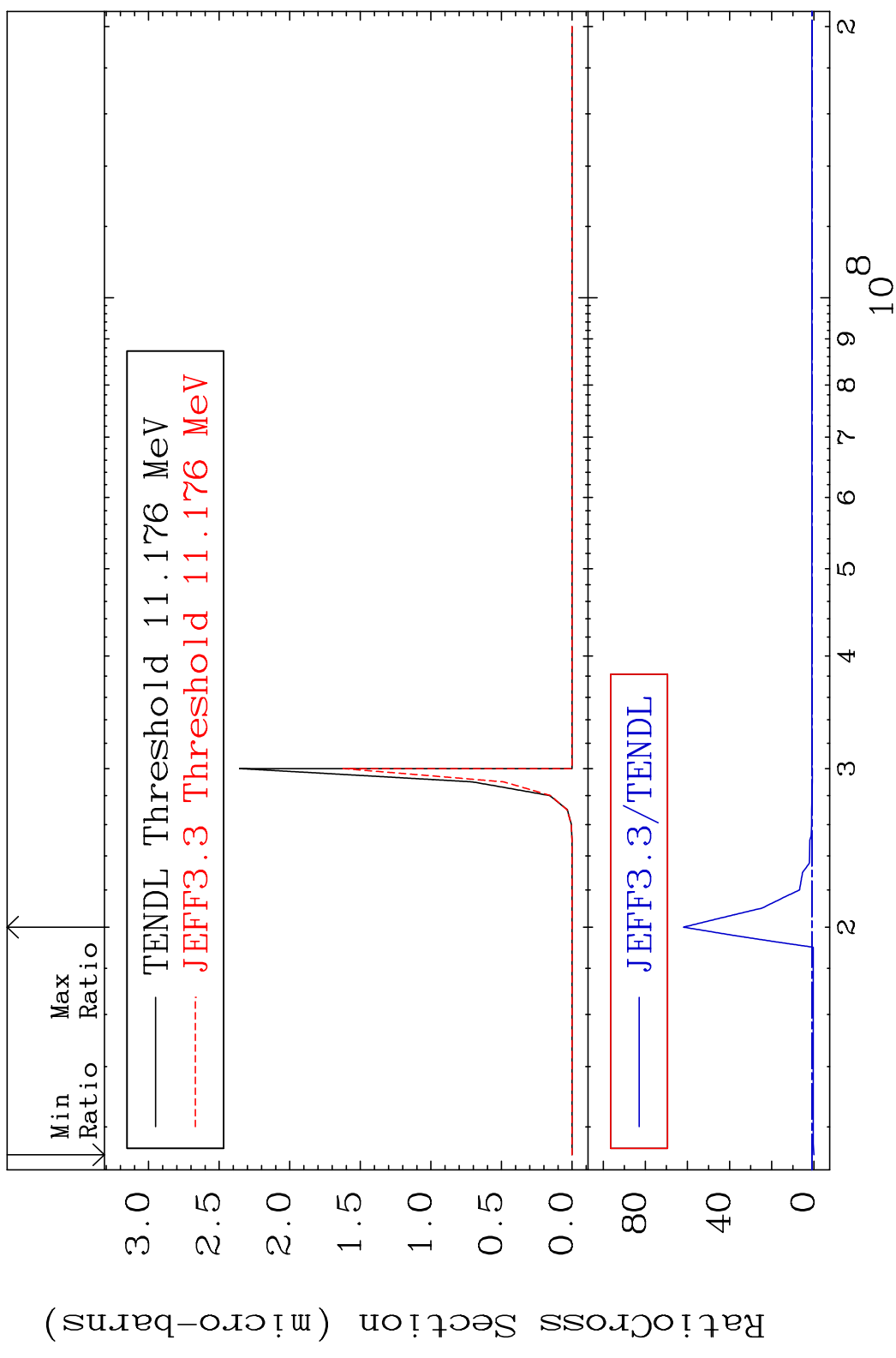


MAT 3434 (n, n') p 34-Se-77  
 Cross Section -9.124 To 72.32 %

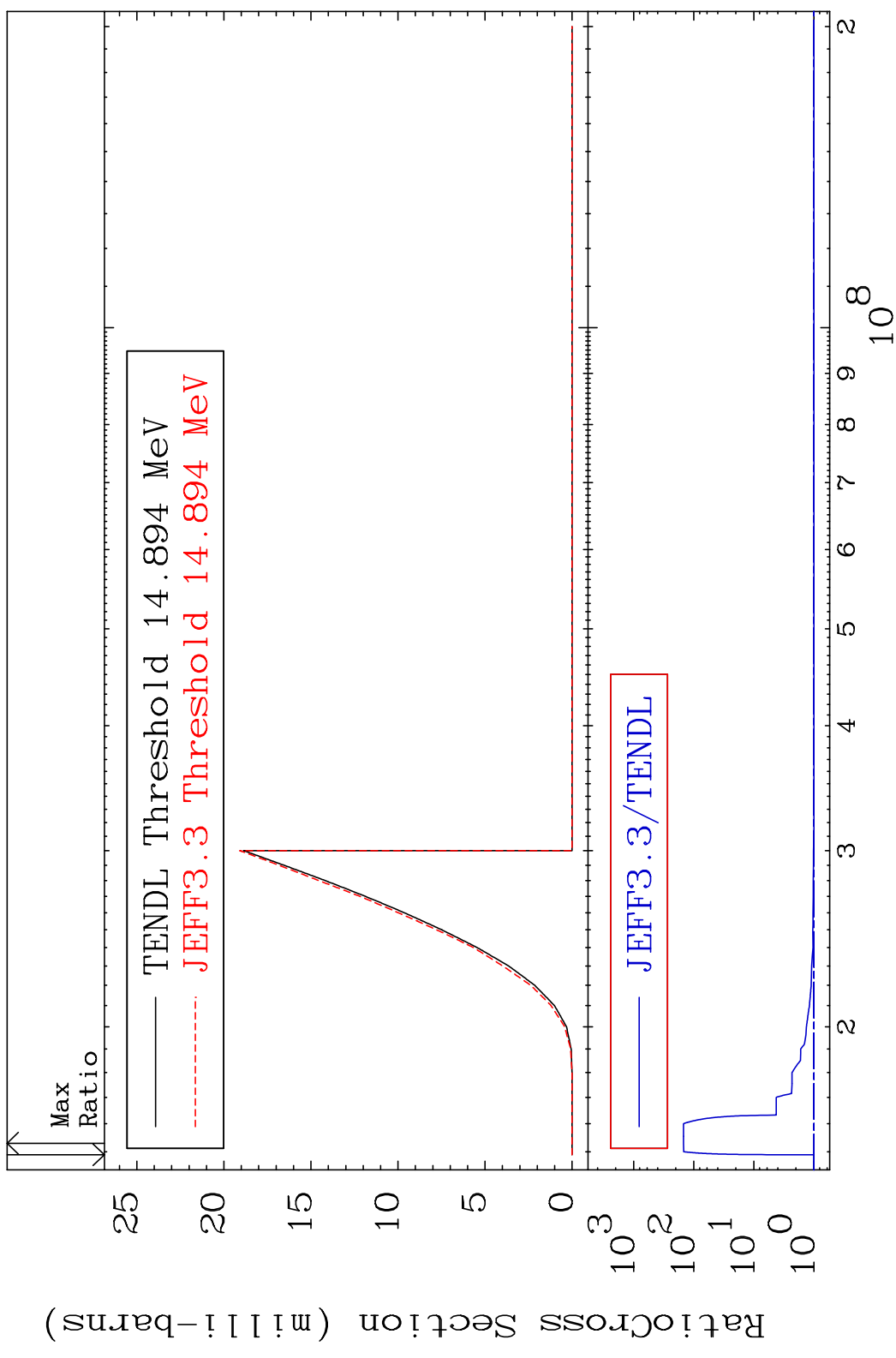


10 Incident Energy (eV) 34-Se-77

MAT 3434 (n, n') 2α 34-Se-77  
 Cross Section -100.0 To 6091. %



MAT 3434 (n, n') d 34-Se-77  
 Cross Section 0.000 To 9999. %

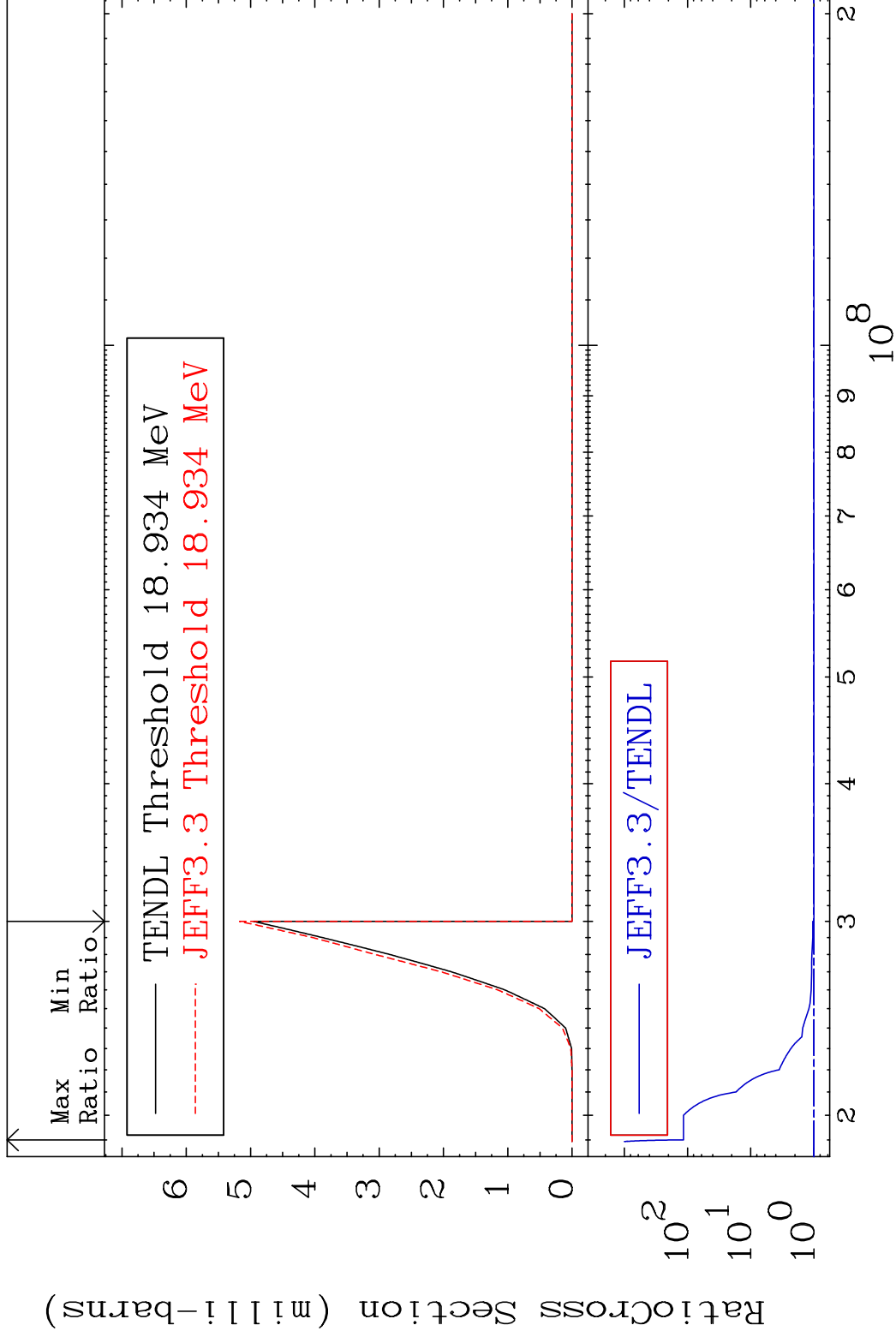


MAT 3434

(n, n') t

<sup>34</sup>Se-77

Cross Section 0.000 To 9999. %



13

Incident Energy (eV)

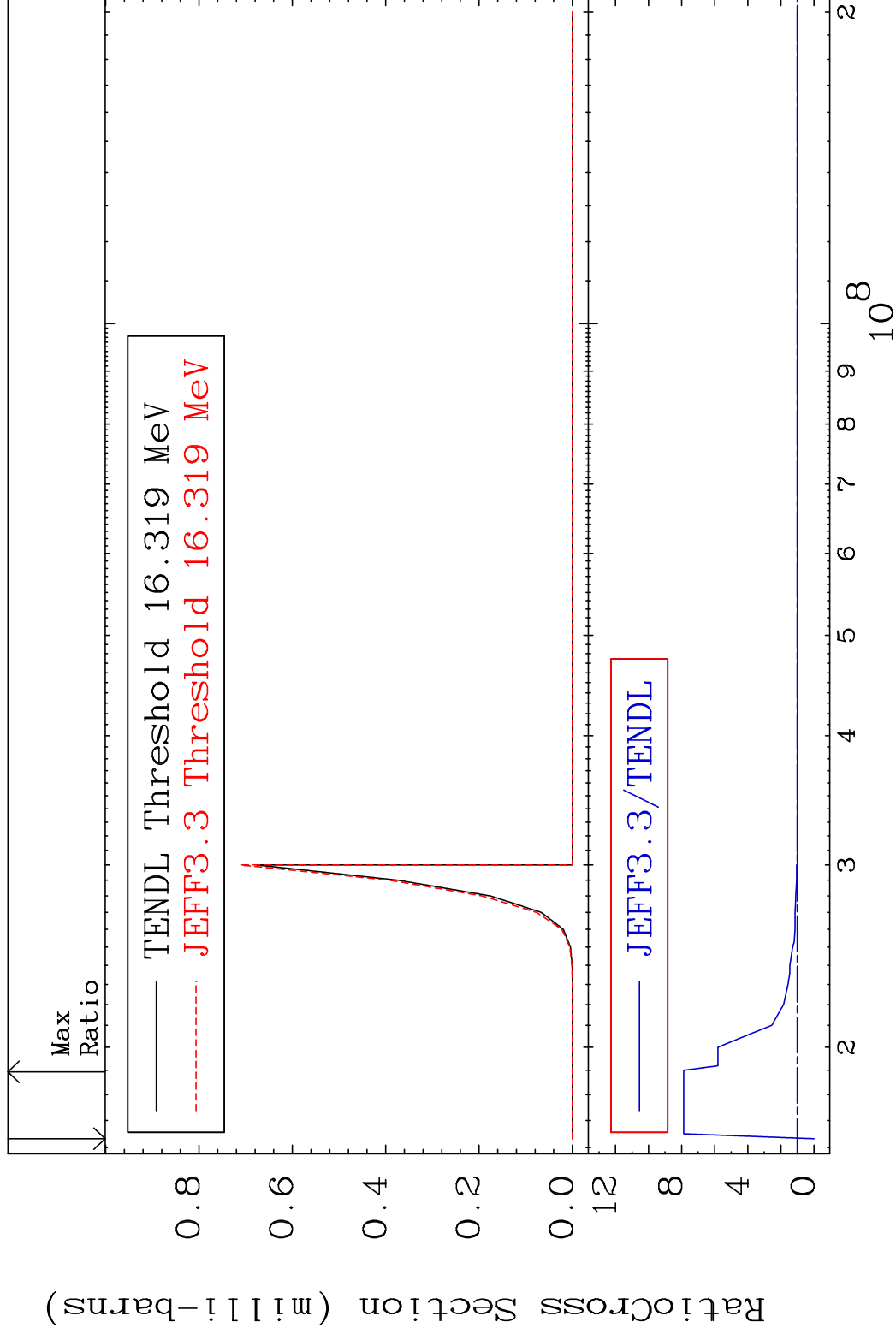
<sup>34</sup>Se-77

MAT 3434

(n, n') He-3

34-Se-77

Cross Section -100.0 To 687.8 %



14

Incident Energy (eV)

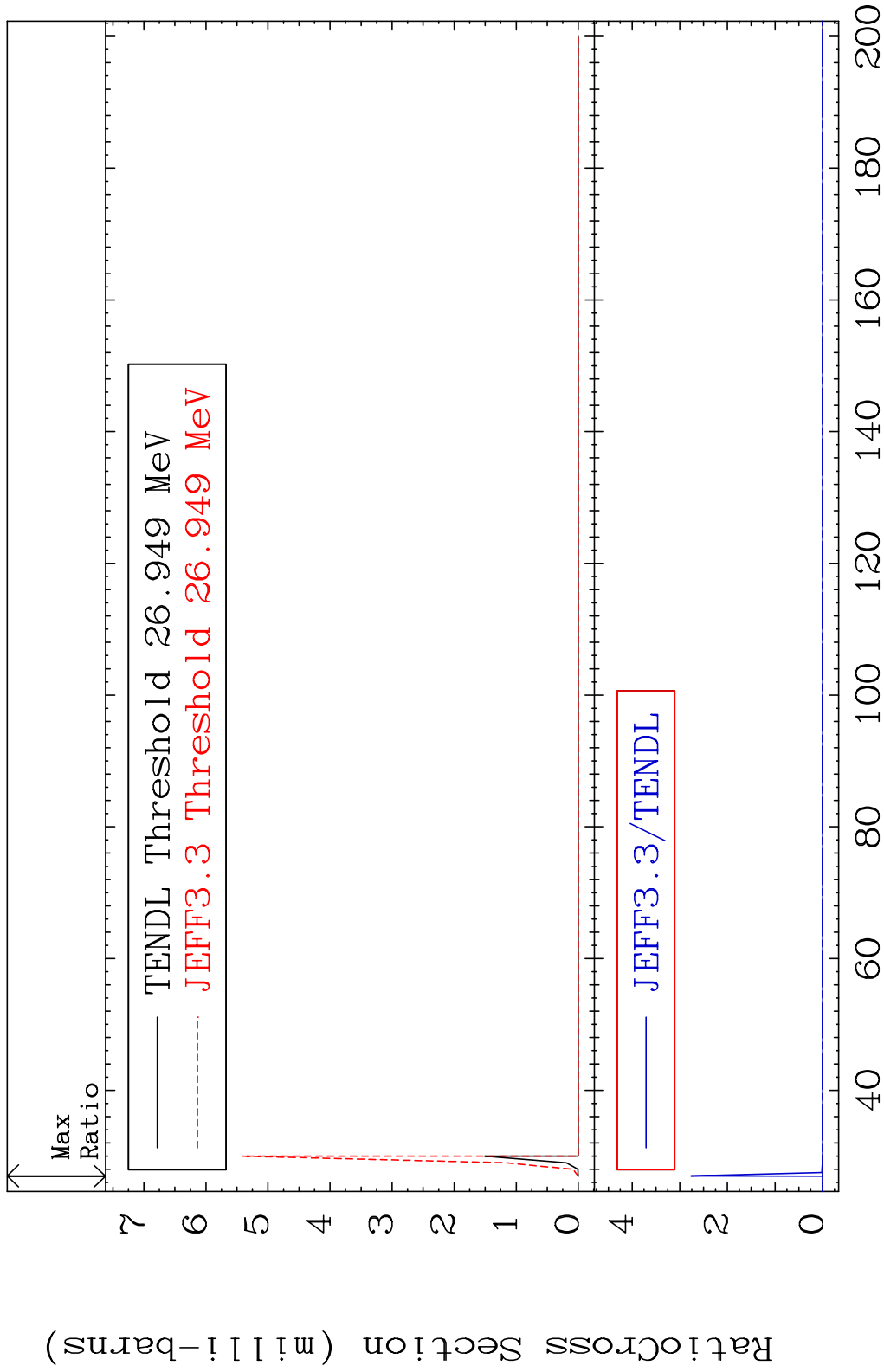
34-Se-77

MAT 3434

(n,4n)

<sup>34</sup>Se-77

Cross Section -100.0 To 9999. %



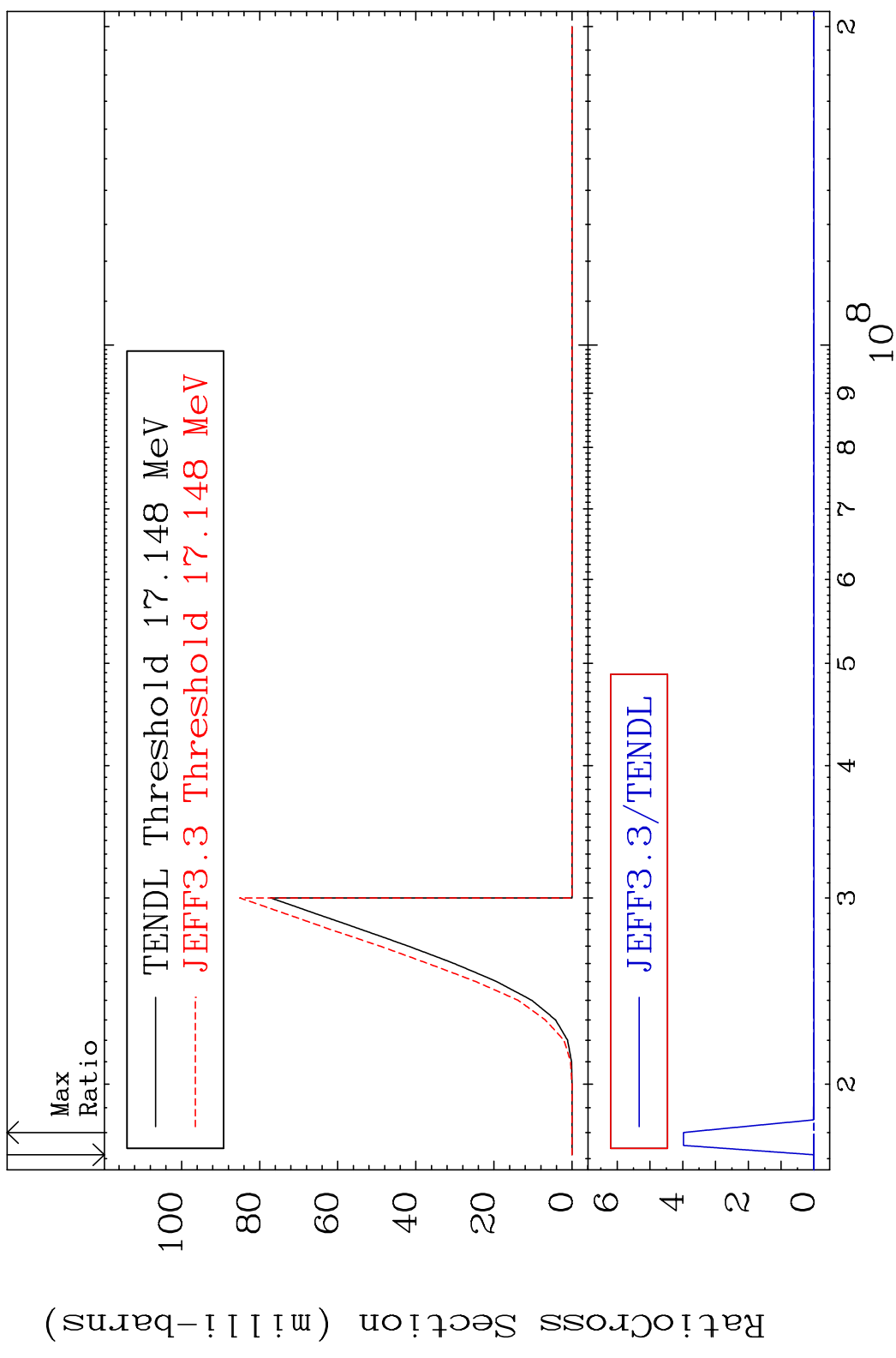
15

Incident Energy (MeV)

<sup>34</sup>Se-77



MAT 3434 (n,2n) p 34-Se-77  
 Cross Section -100.0 To 9999. %



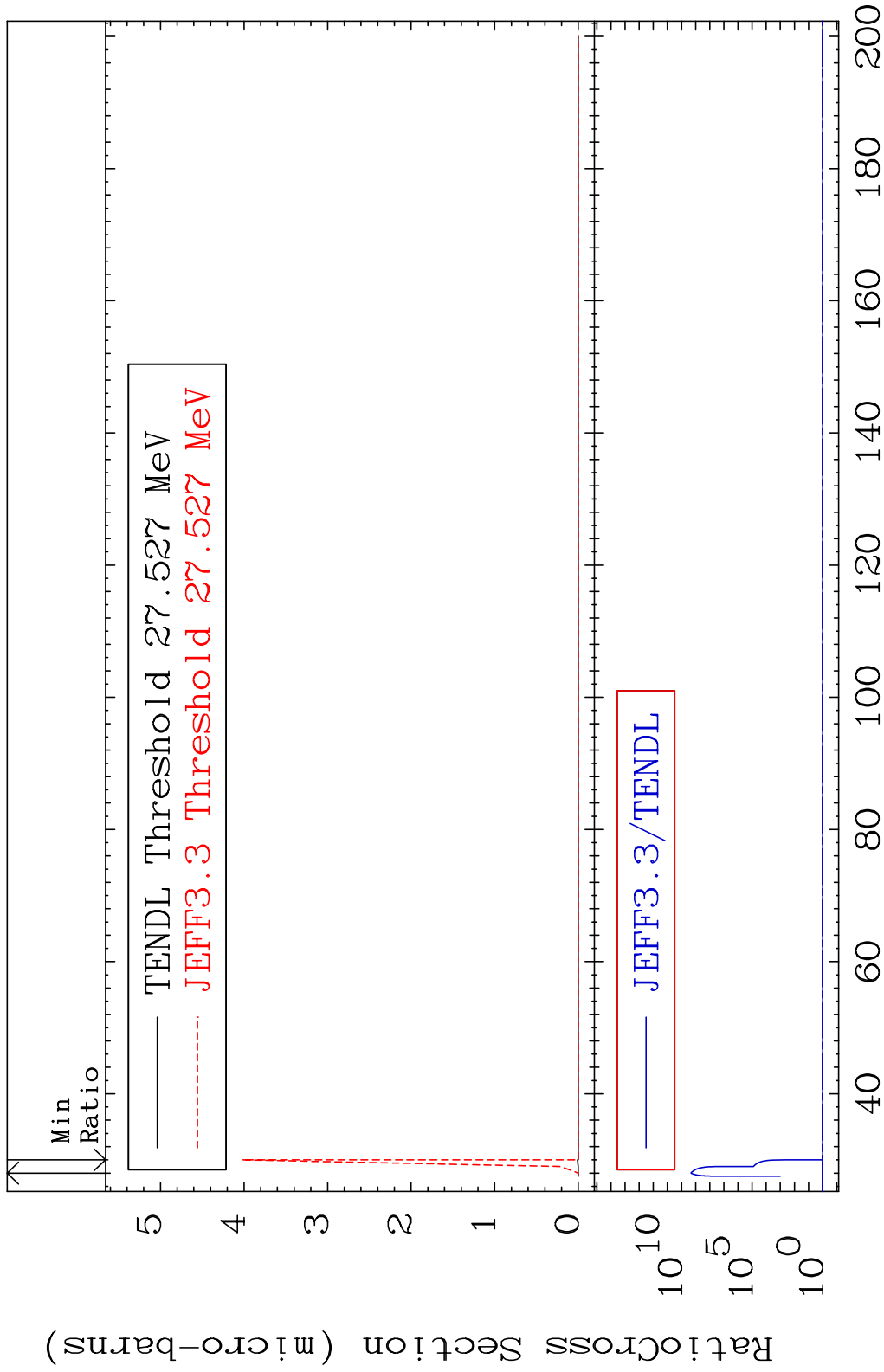
16 Incident Energy (eV) 34-Se-77

MAT 3434

(n, 3n) p

<sup>34</sup>Se-77

Cross Section 0.000 To 9999. %

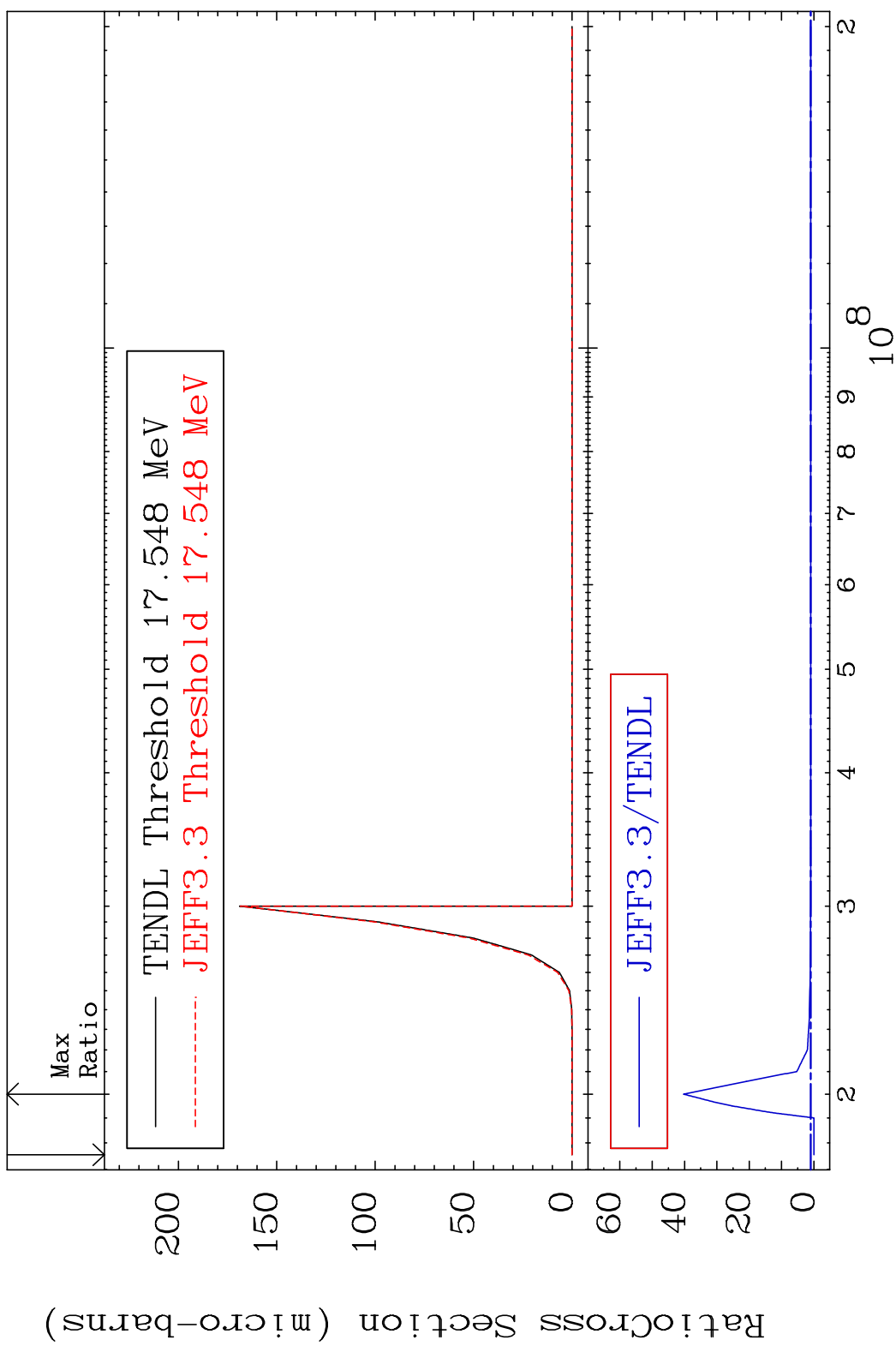


17

Incident Energy (MeV)

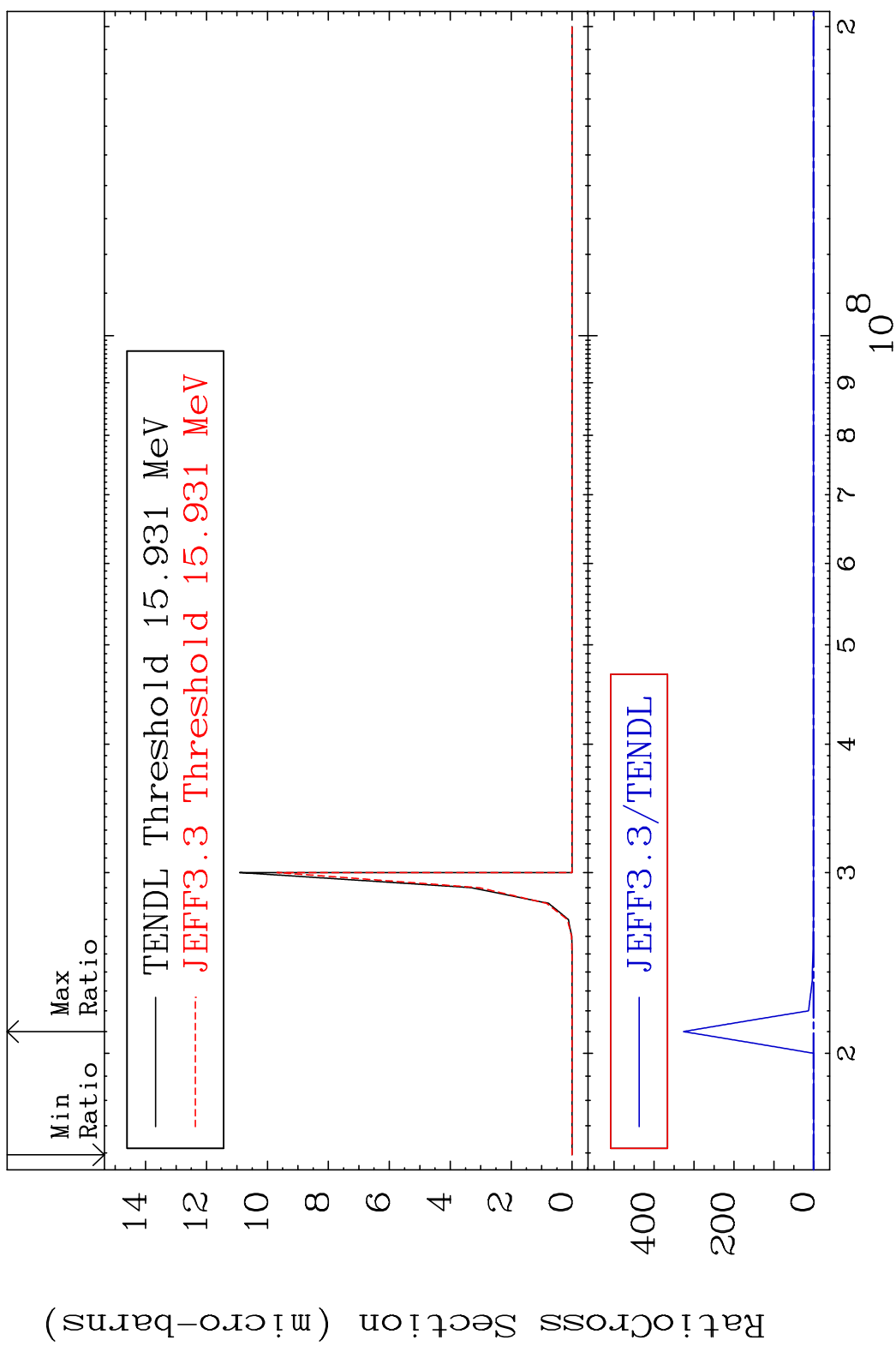
<sup>34</sup>Se-77

MAT 3434 (n,2n) p 34-Se-77  
 Cross Section -100.0 To 3933. %



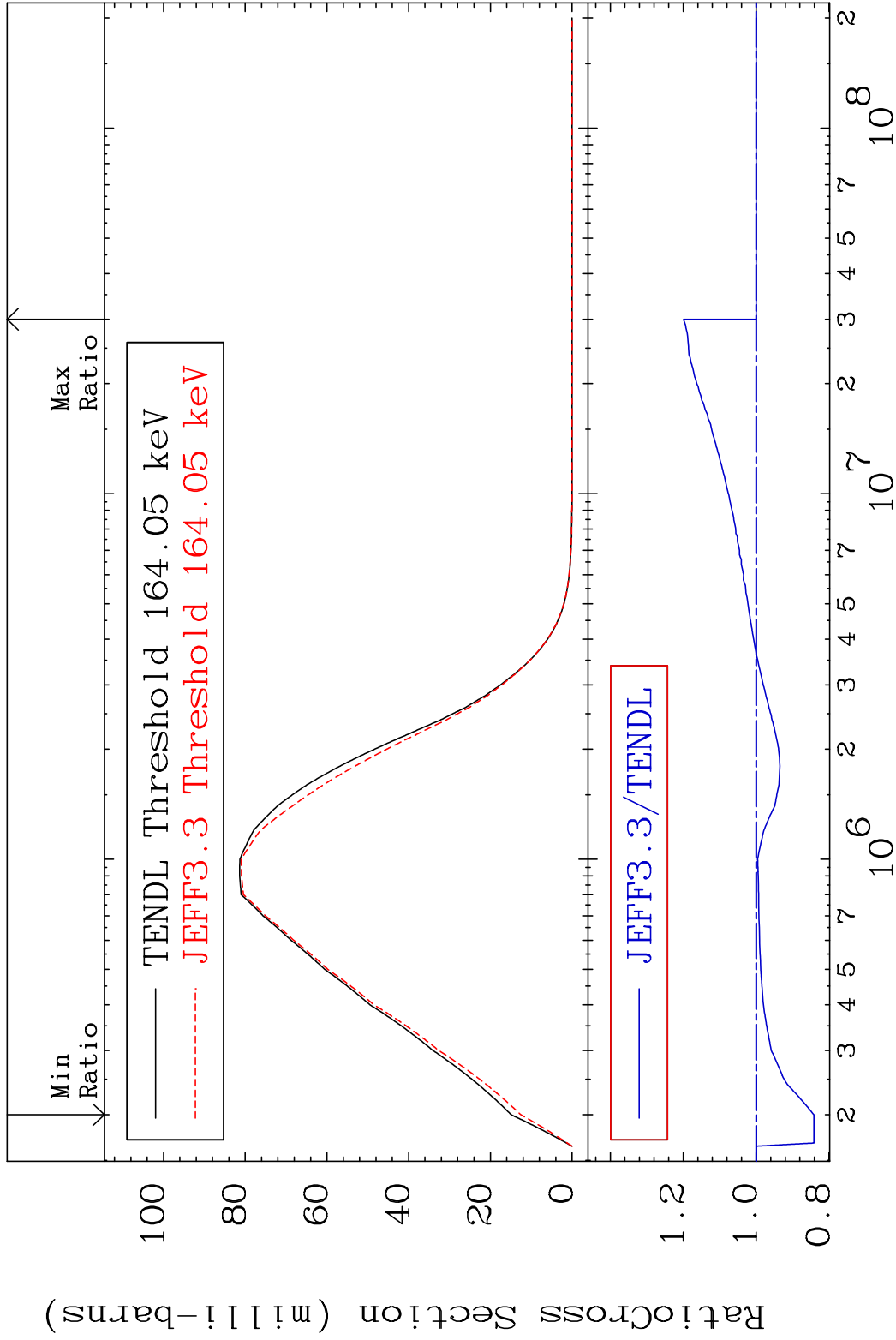
18 Incident Energy (eV) 34-Se-77

MAT 3434 (n, n') p  $\alpha$   $^{34}\text{Se-77}$   
 Cross Section -100.0 To 9999. %

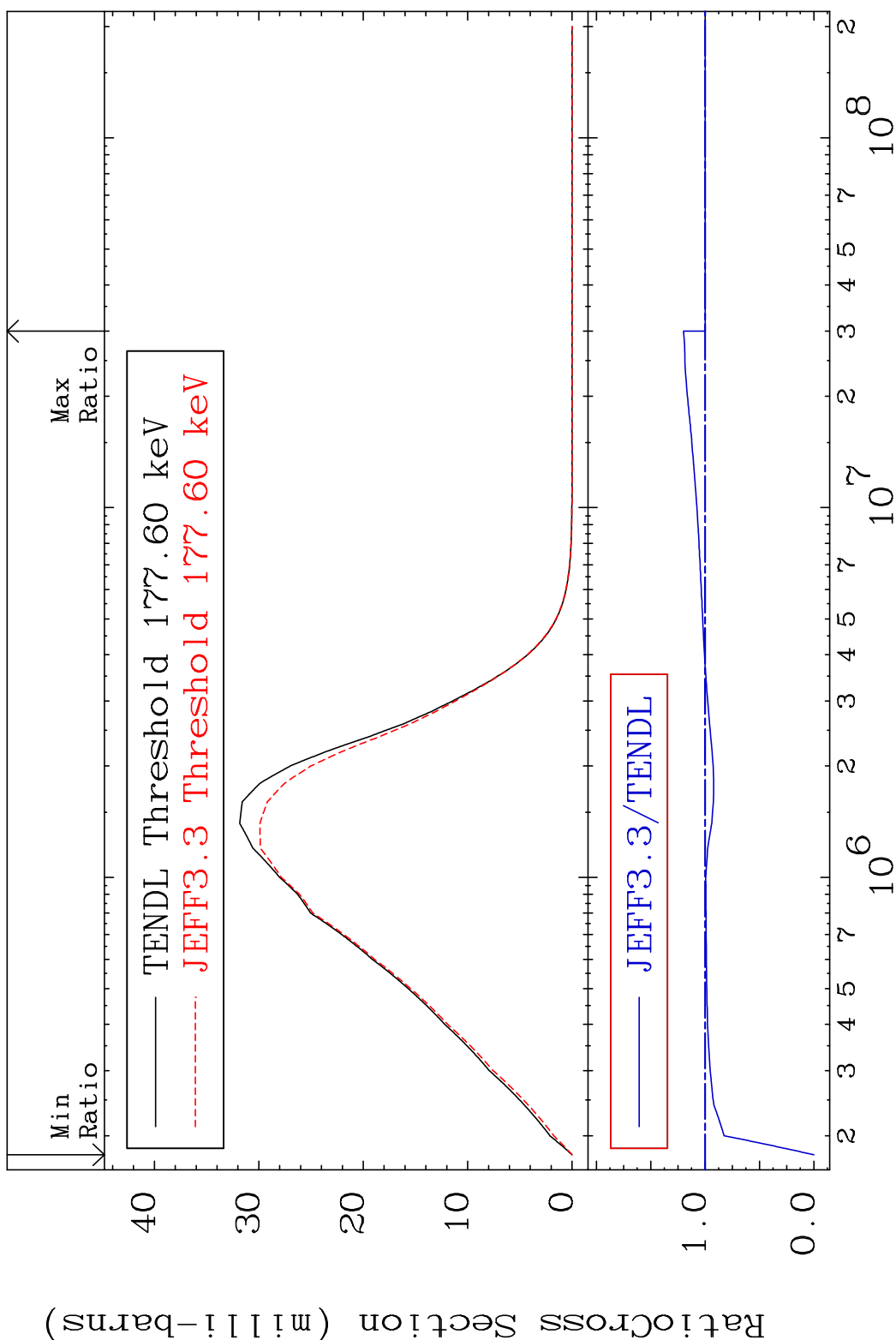


19 Incident Energy (eV)  $^{34}\text{Se-77}$

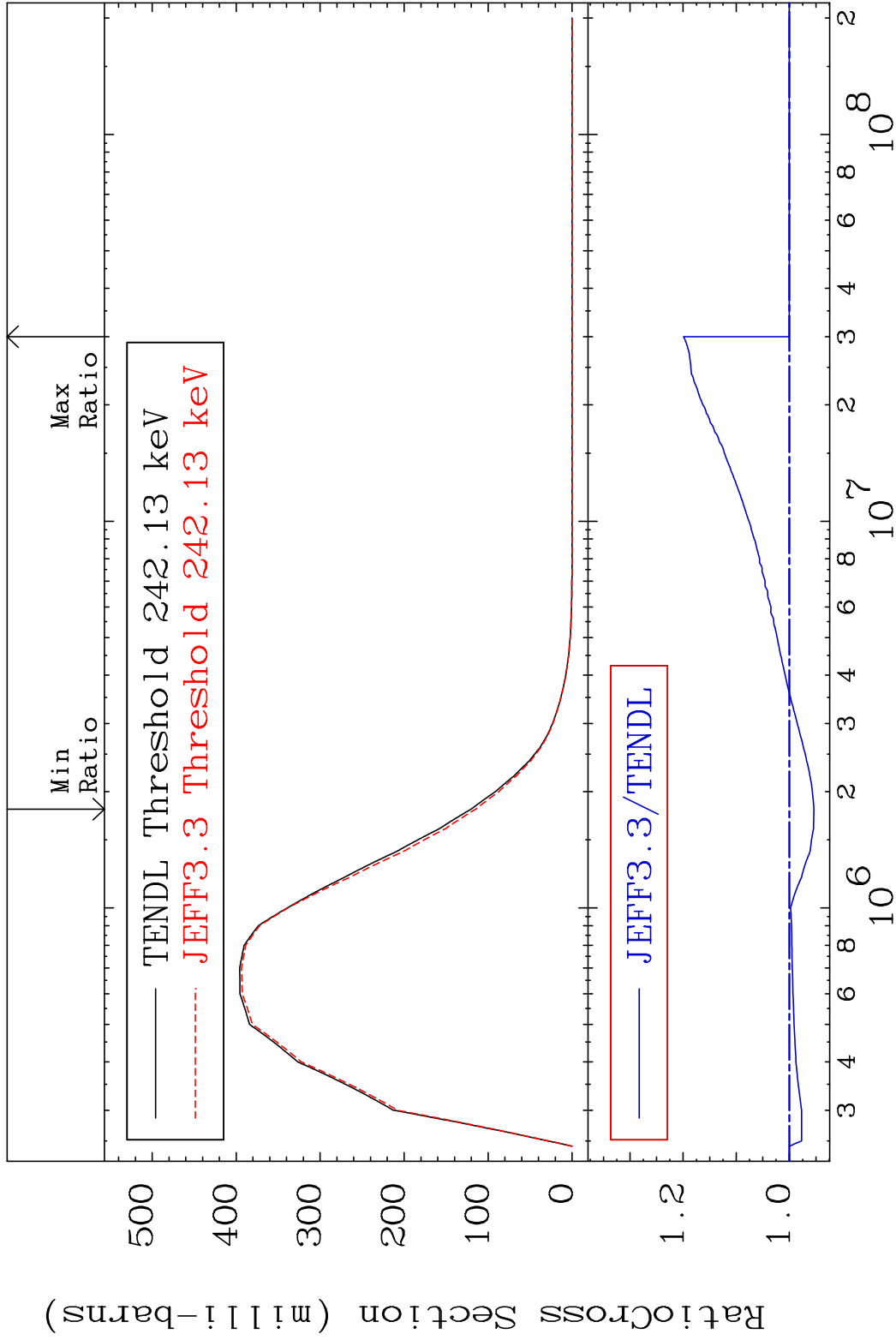
MAT 3434 MT= 51 (n, n') Level 34-Se-77  
 Cross Section -15.84 To 19.93 %



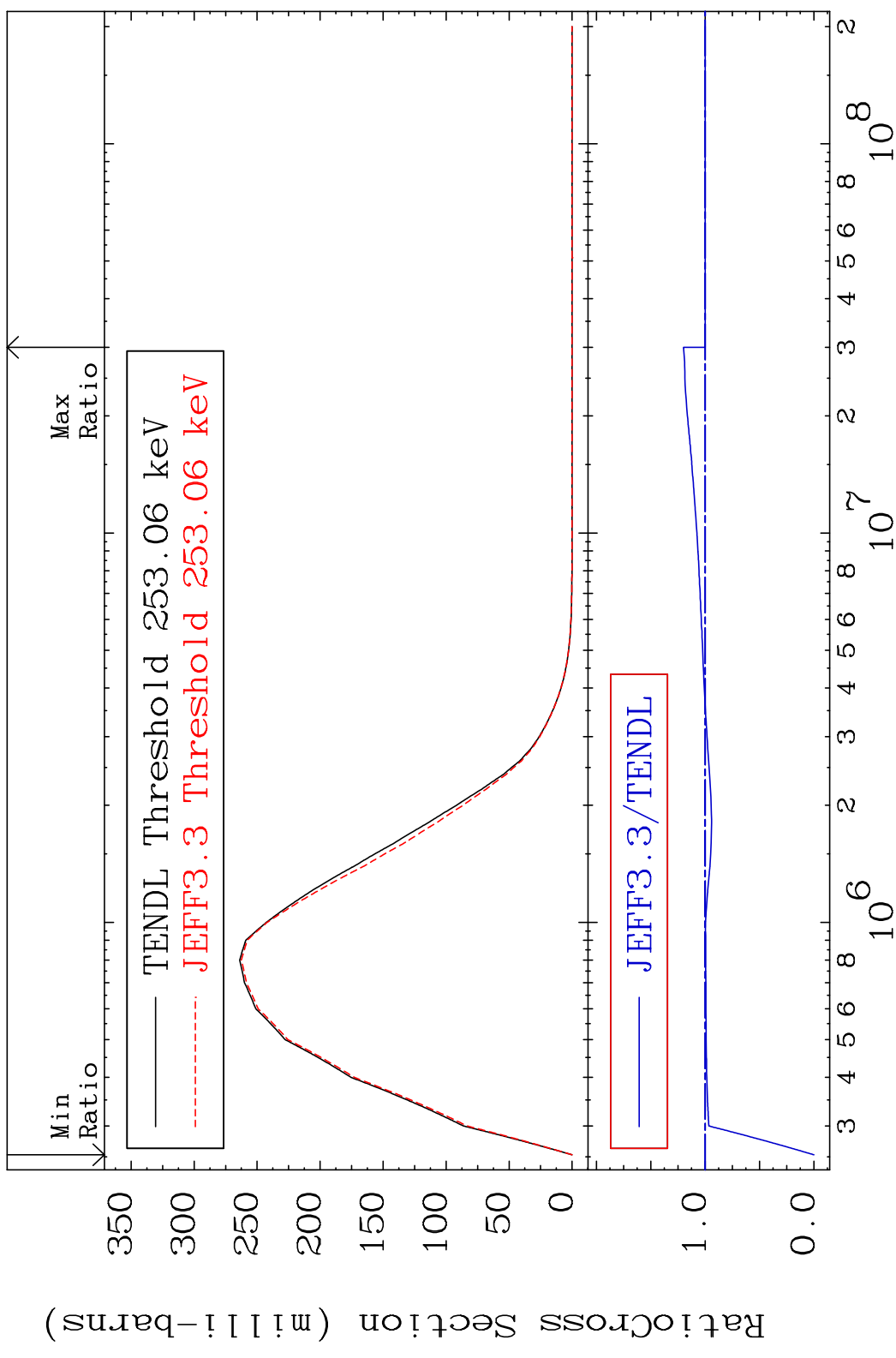
MAT 3434 MT= 52 (n, n') Level 34-Se-77  
 Cross Section -100.0 To 19.93 %



MAT 3434 MT= 53 (n, n') Level 34-Se-77  
 Cross Section -4.619 To 19.94 %

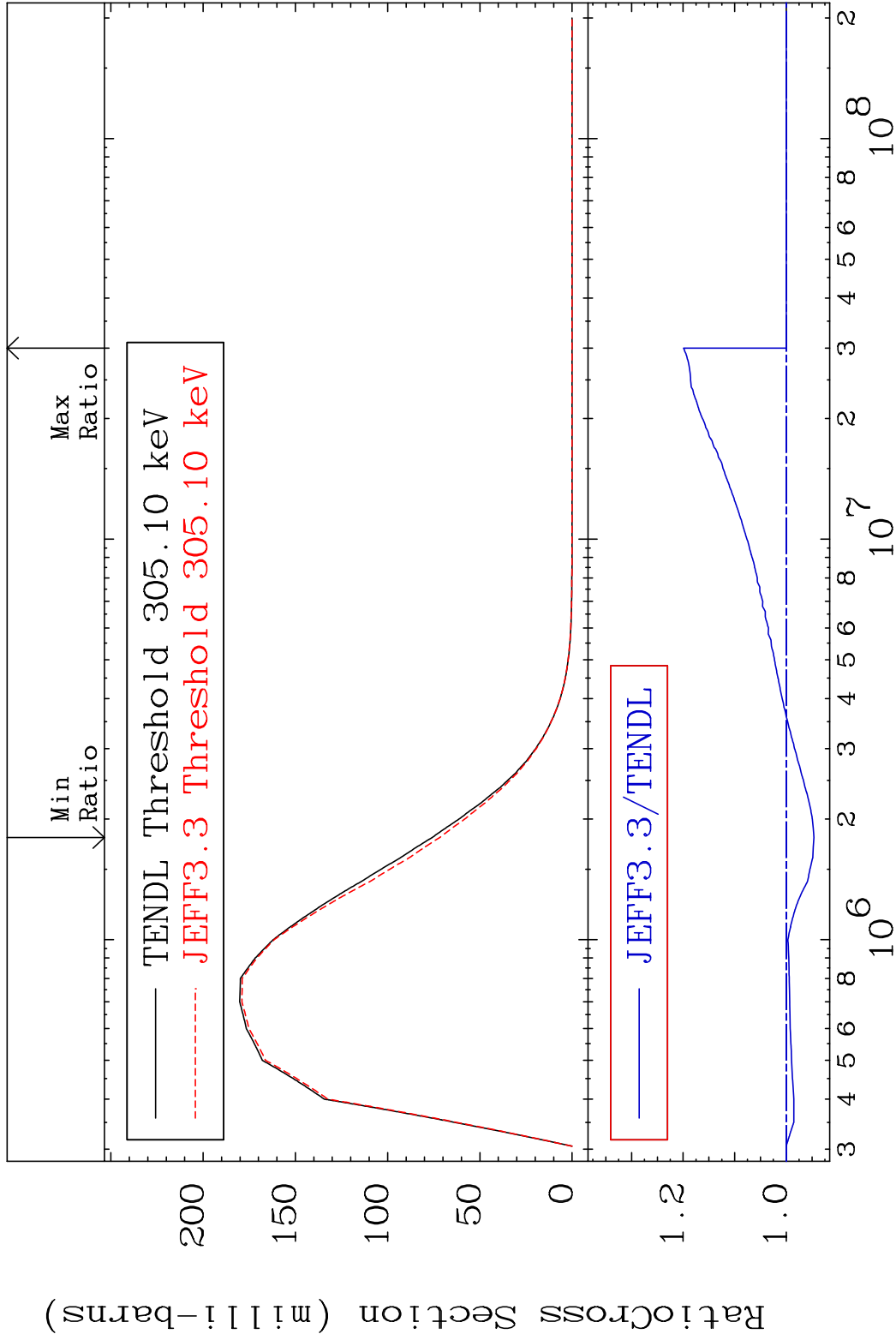


MAT 3434 MT= 54 (n, n') Level 34-Se-77  
 Cross Section -100.0 To 19.93 %

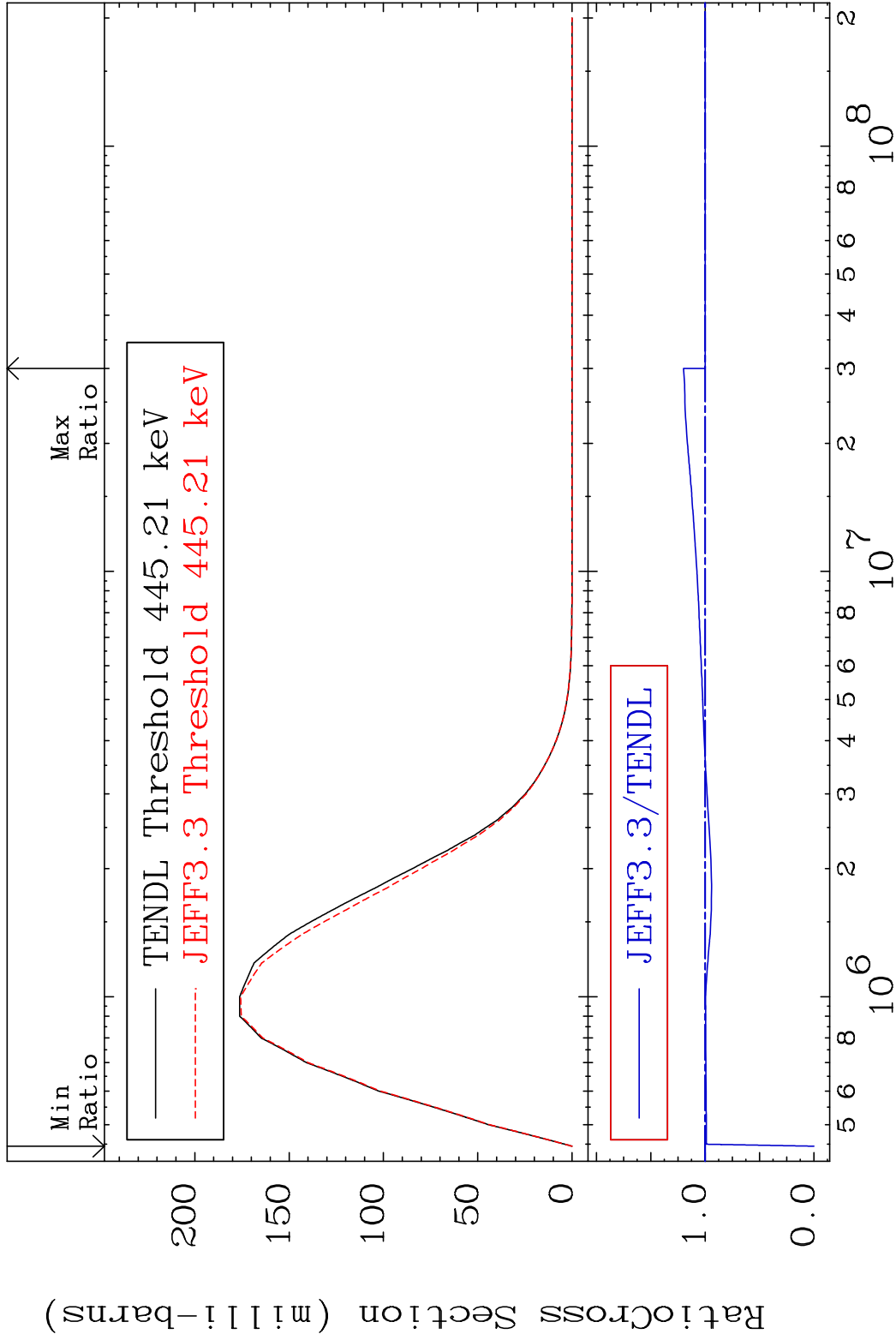




MAT 3434 MT= 55 (n, n') Level 34-Se-77  
 Cross Section -5.362 To 19.93 %

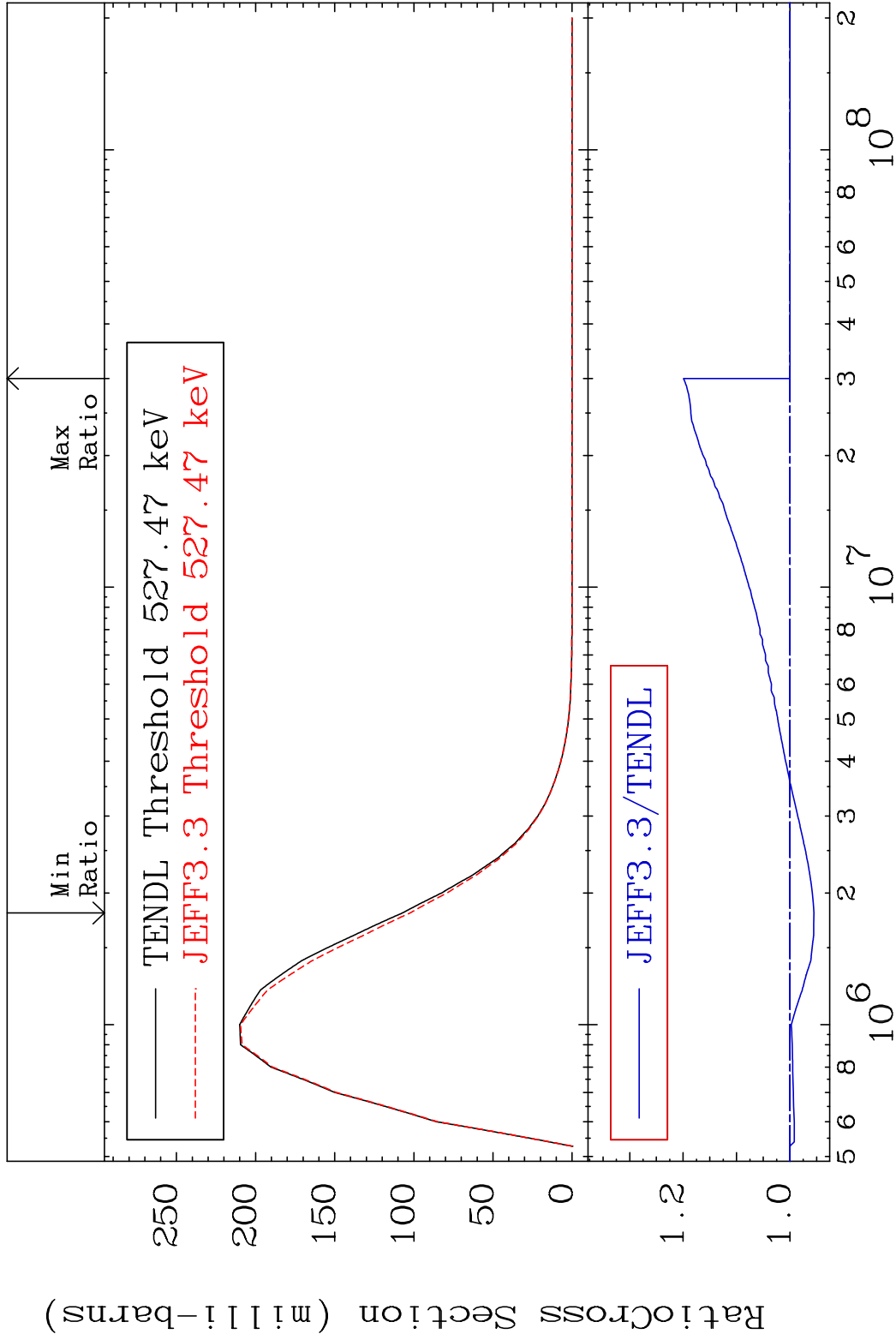


MAT 3434 MT= 56 (n, n') Level 34-Se-77  
 Cross Section -100.0 To 19.93 %



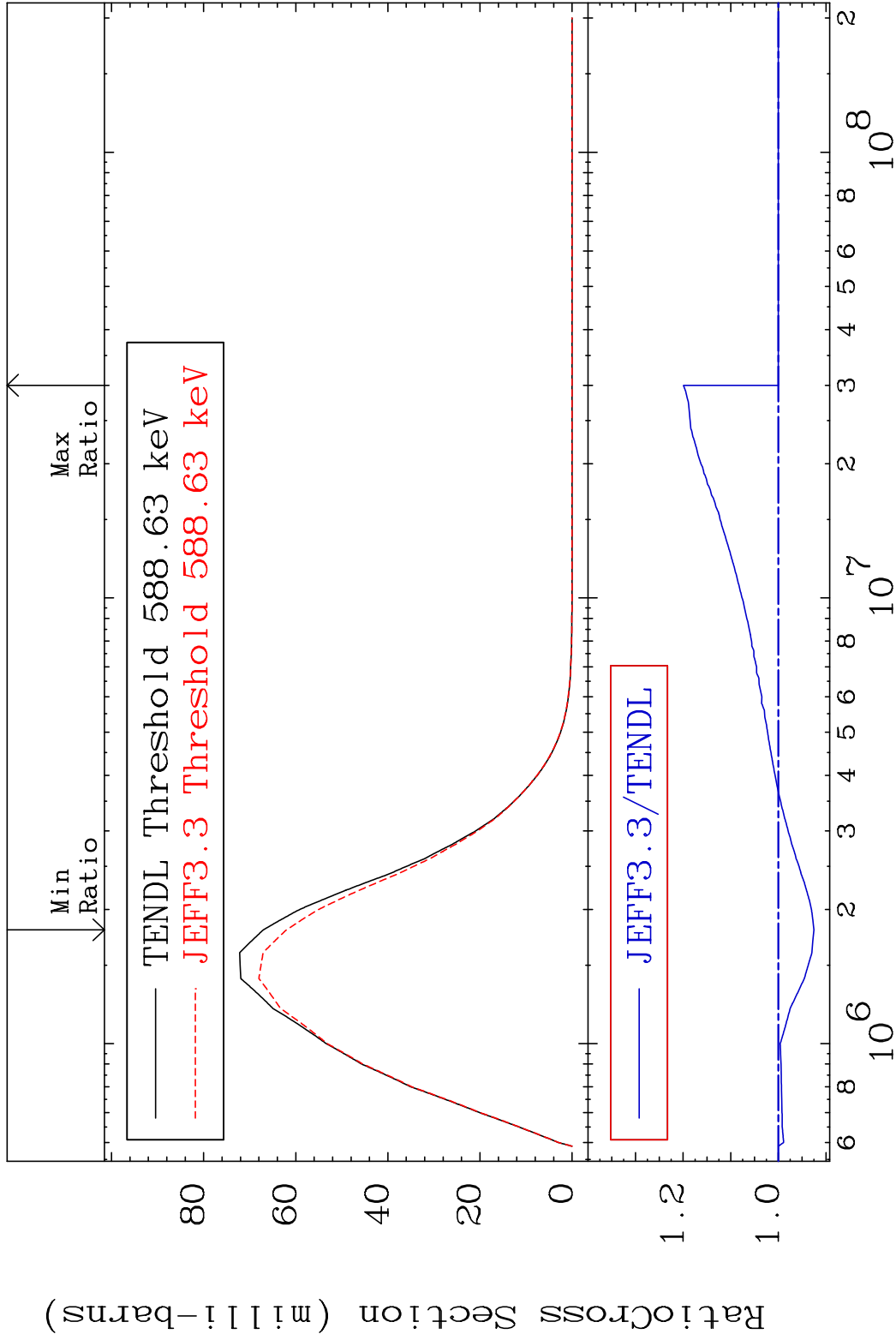
25 34-Se-77

MAT 3434 MT= 57 (n, n') Level 34-Se-77  
 Cross Section -4.479 To 19.94 %

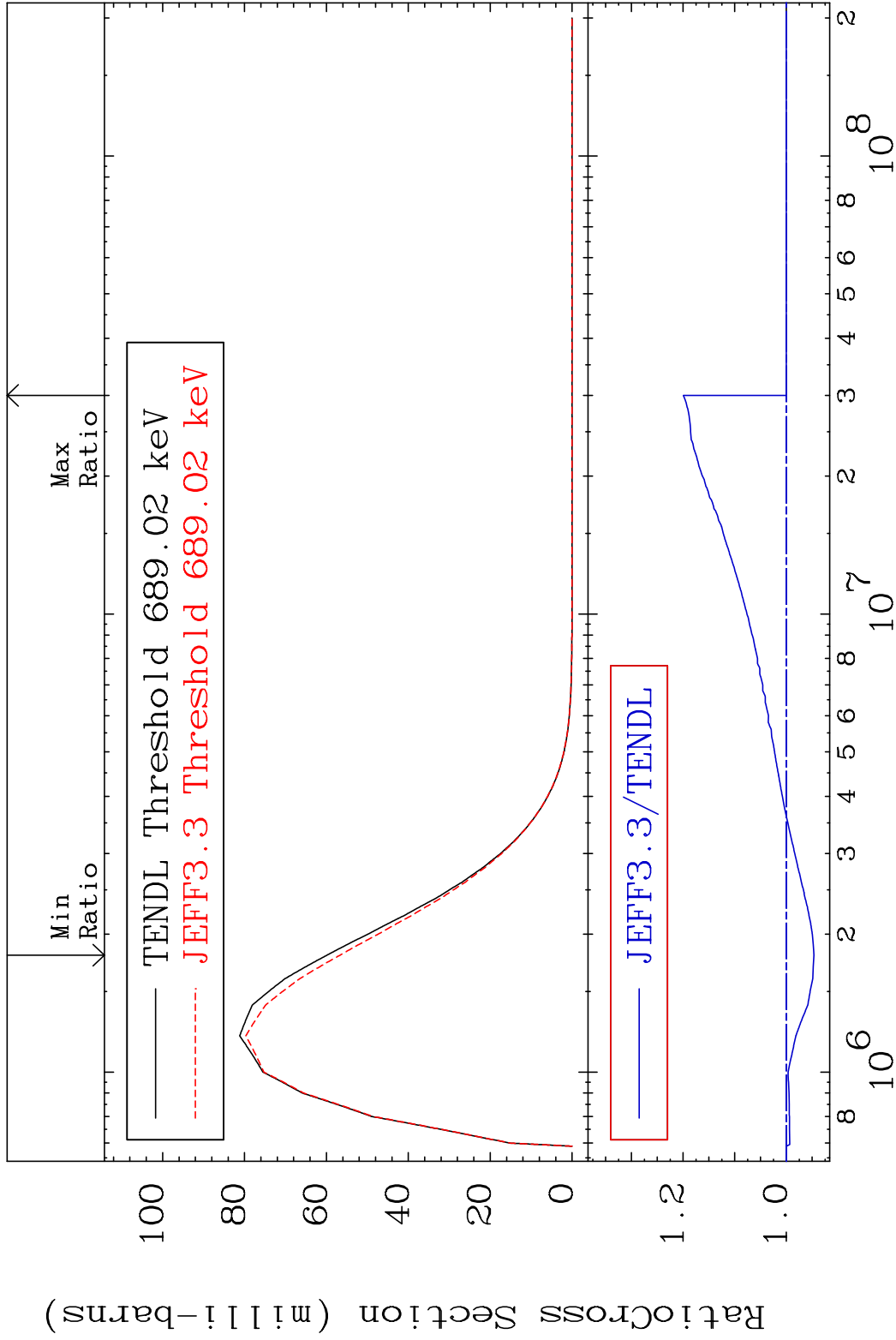


26 Incident Energy (eV) 34-Se-77

MAT 3434 MT= 58 (n, n') Level 34-Se-77  
 Cross Section -7.466 To 19.93 %

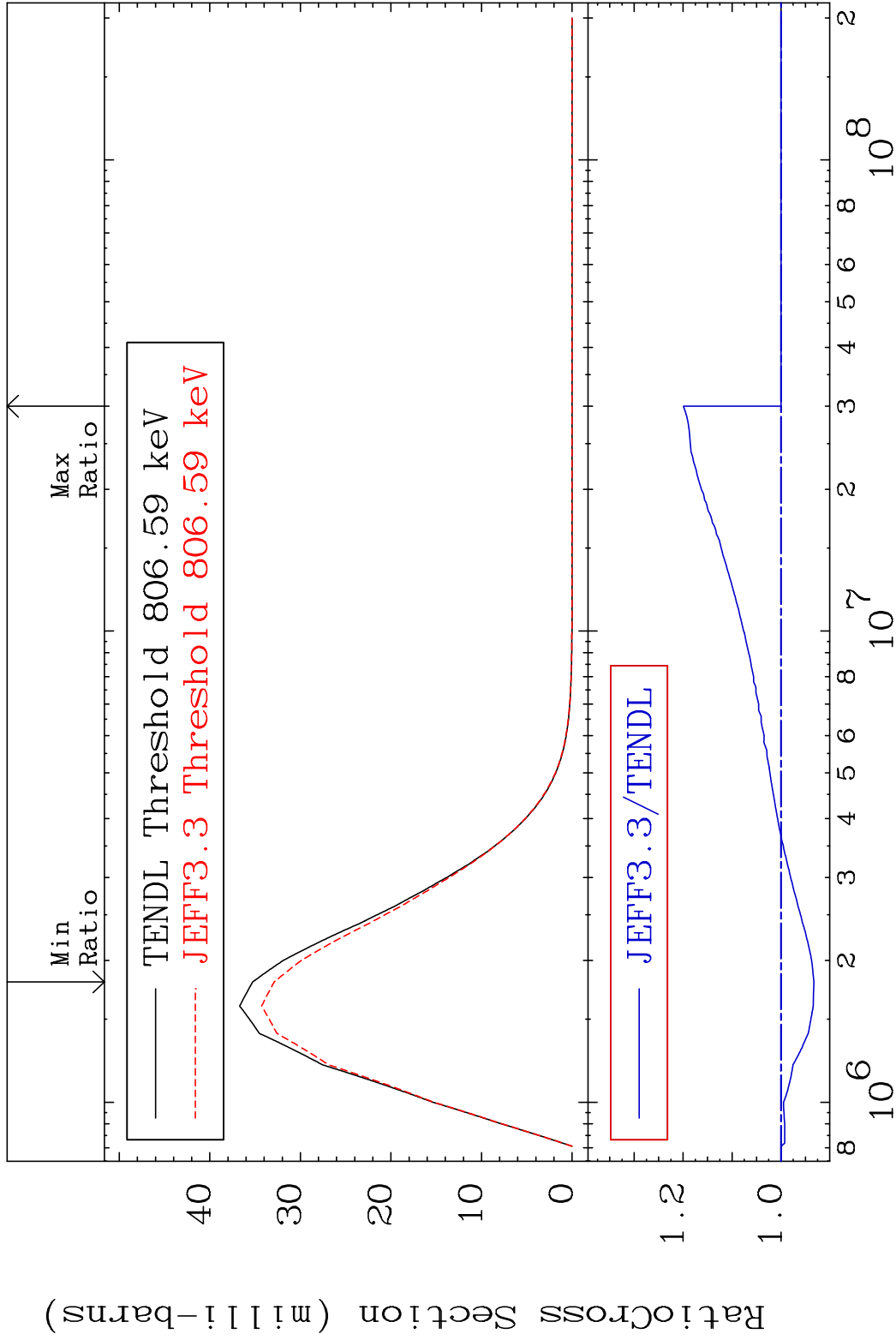


MAT 3434 MT= 59 (n, n') Level 34-Se-77  
 Cross Section -5.330 To 19.93 %

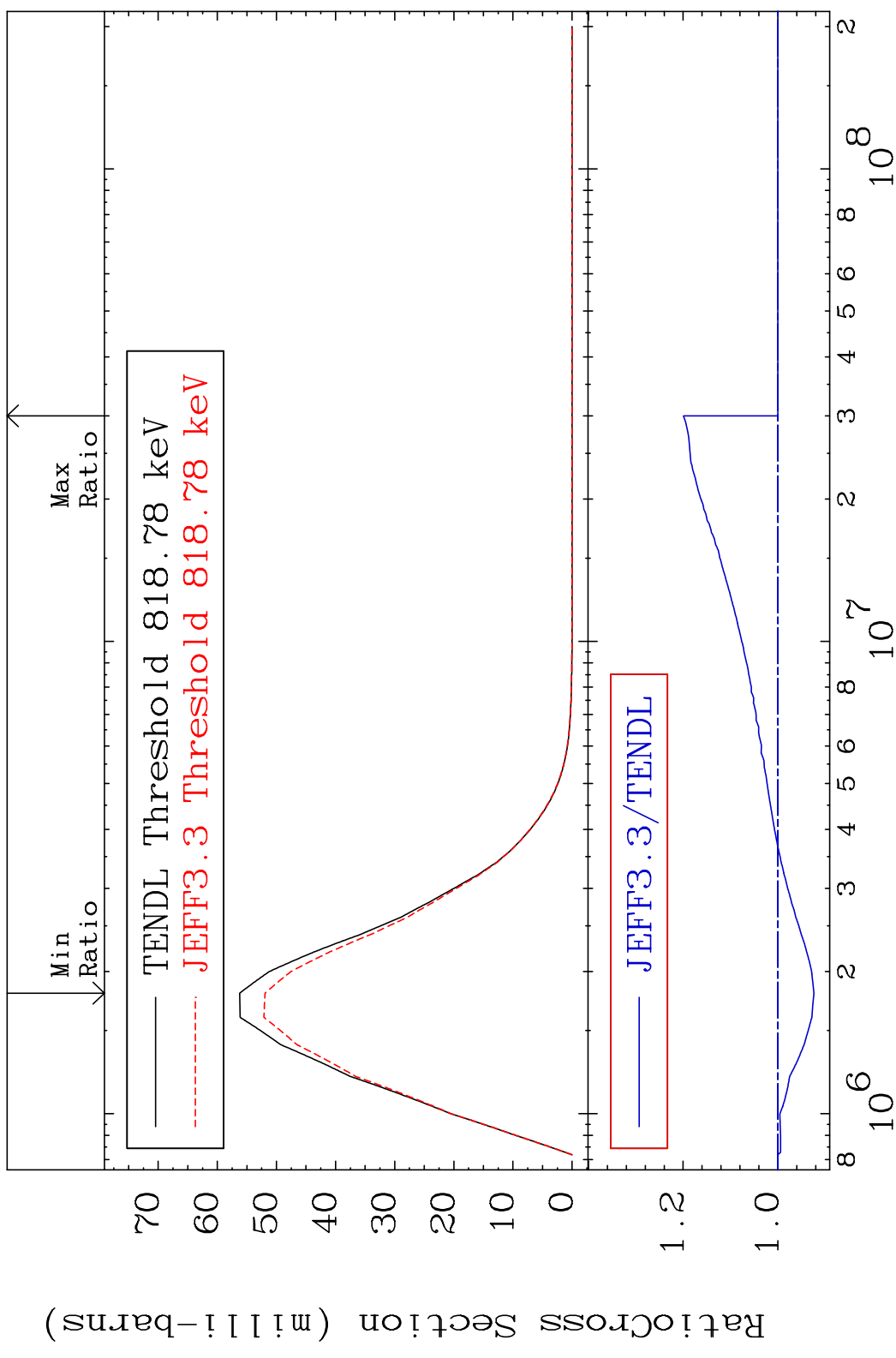


28 Incident Energy (eV) 34-Se-77

MAT 3434 MT= 60 (n, n') Level 34-Se-77  
 Cross Section -6.728 To 19.93 %

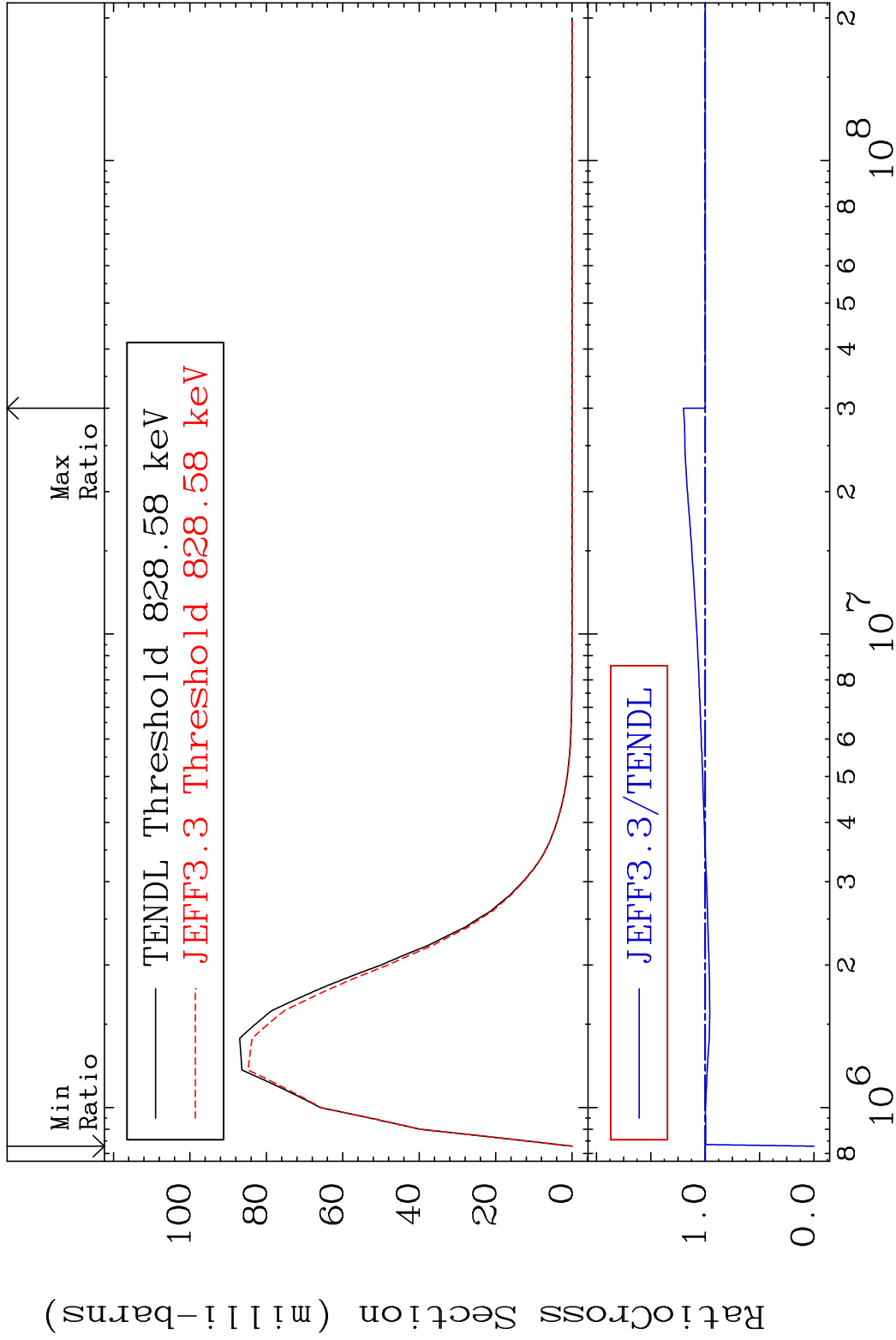


MAT 3434 MT= 61 (n, n') Level 34-Se-77  
 Cross Section -7.610 To 19.93 %



30 Incident Energy (eV) 34-Se-77

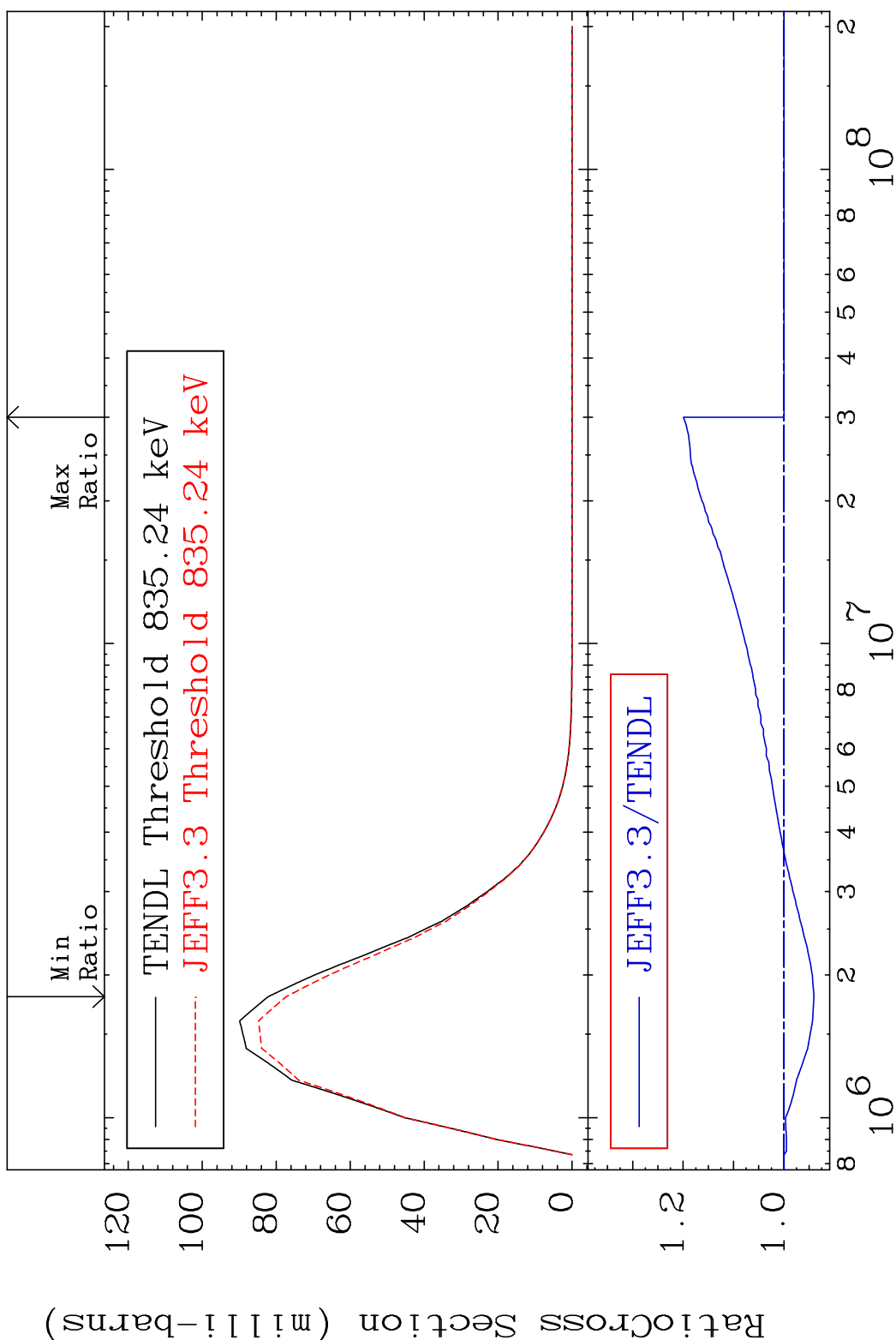
MAT 3434 MT= 62 (n, n') Level 34-Se-77  
 Cross Section -100.0 To 19.94 %



31 Incident Energy (eV) 34-Se-77

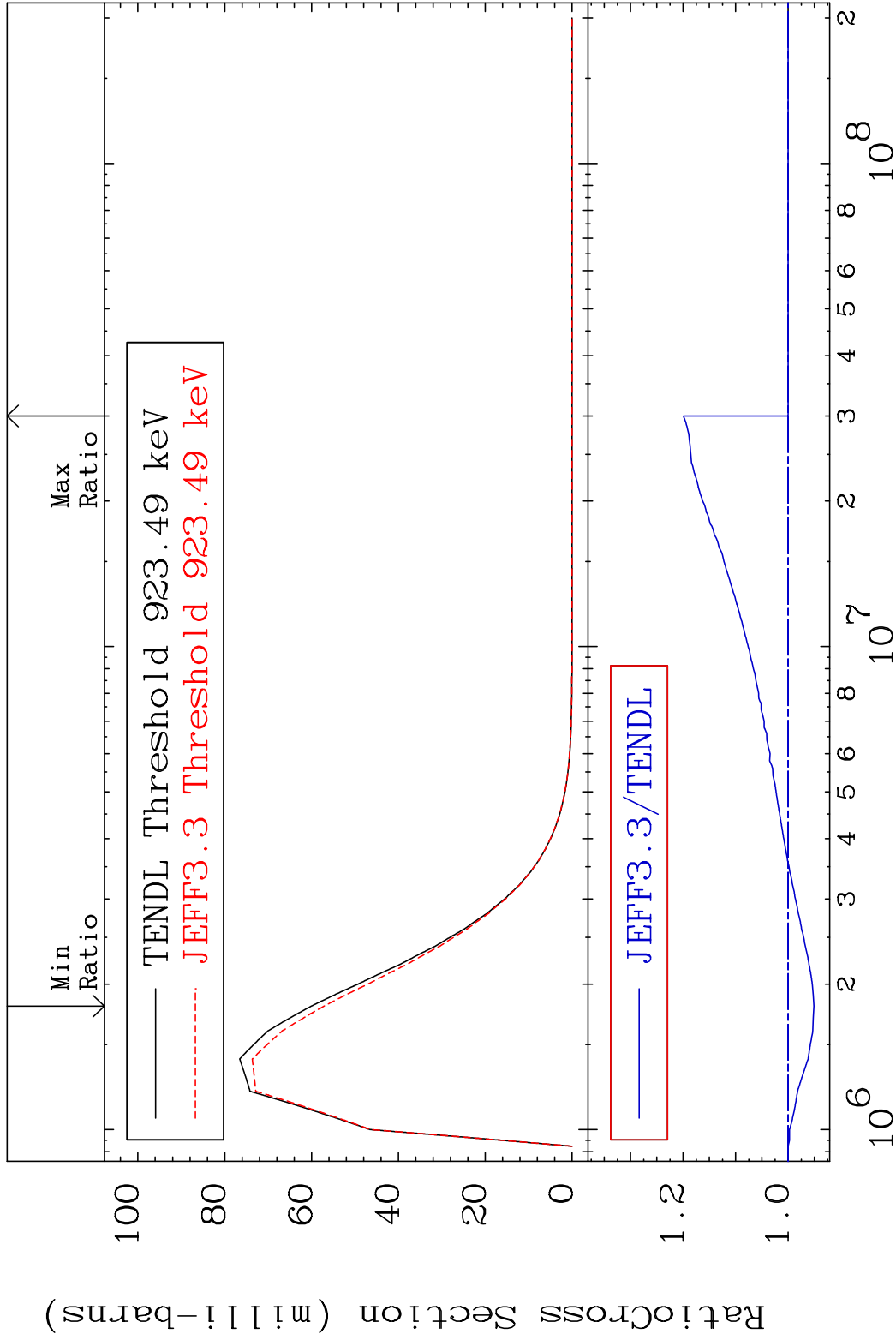


MAT 3434 MT= 63 (n, n') Level 34-Se-77  
 Cross Section -5.941 To 19.93 %



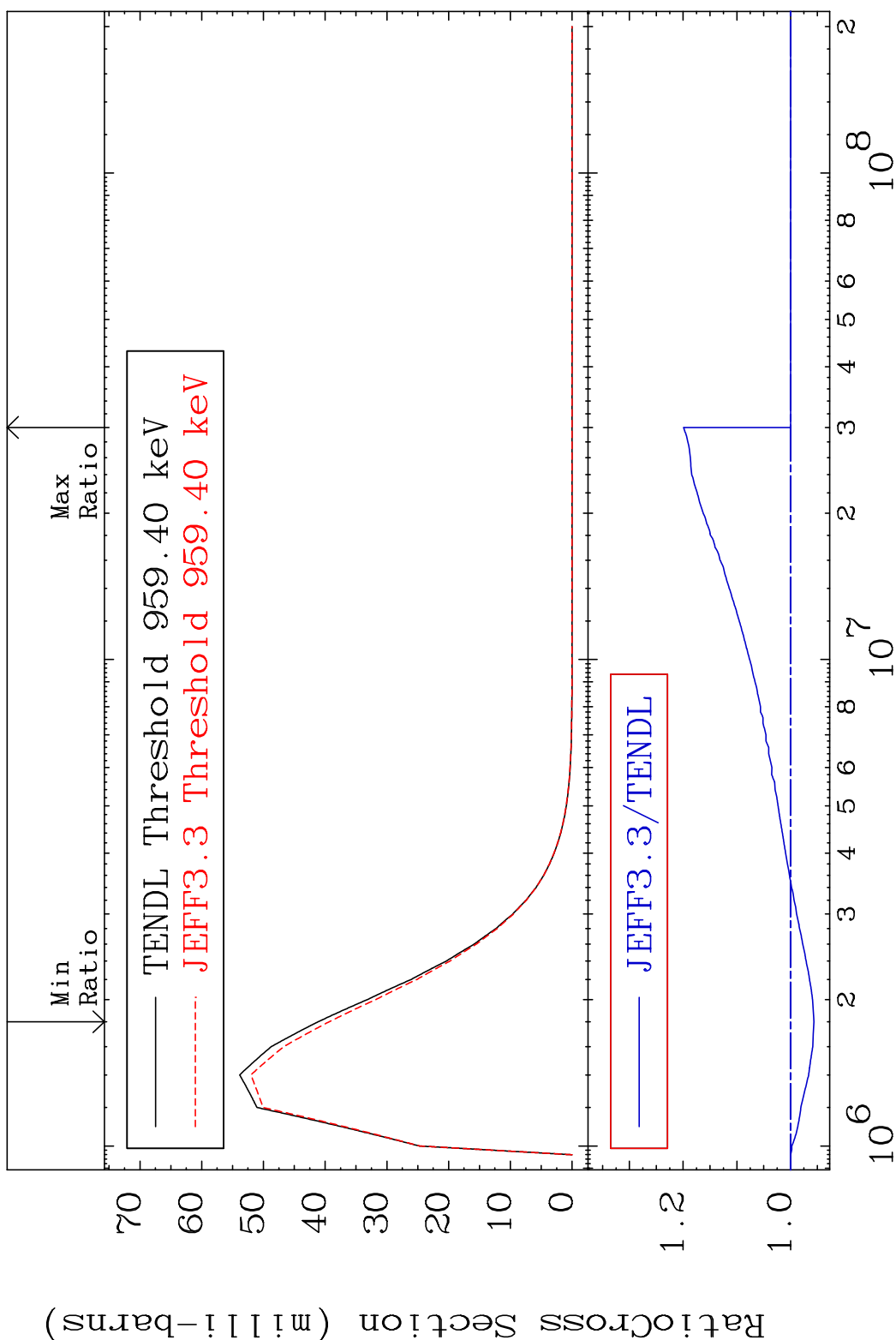
32 34-Se-77

MAT 3434 MT= 64 (n, n') Level 34-Se-77  
 Cross Section -4.893 To 19.94 %

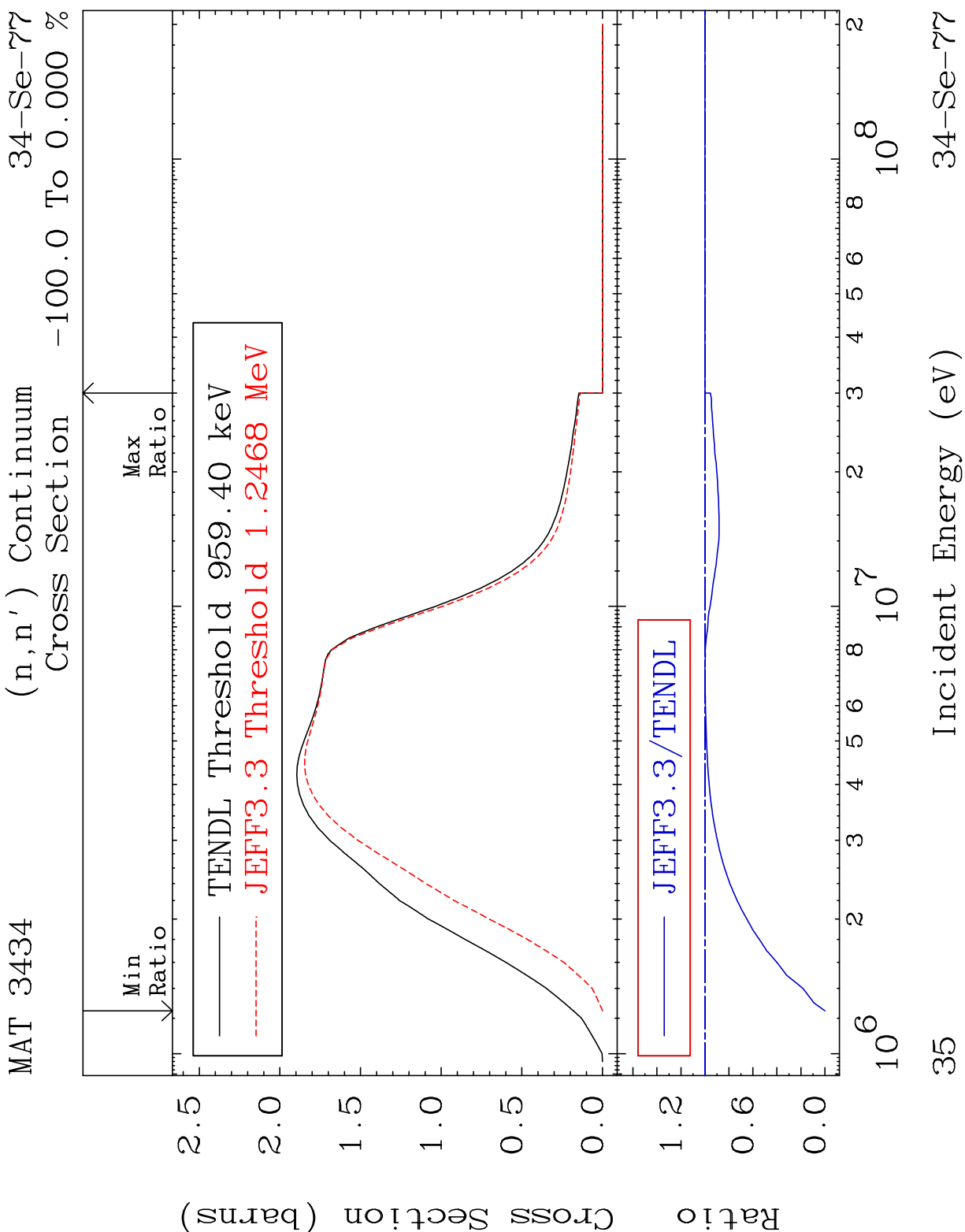


33

MAT 3434 MT= 65 (n, n') Level 34-Se-77  
 Cross Section -4.344 To 19.94 %



34 34-Se-77

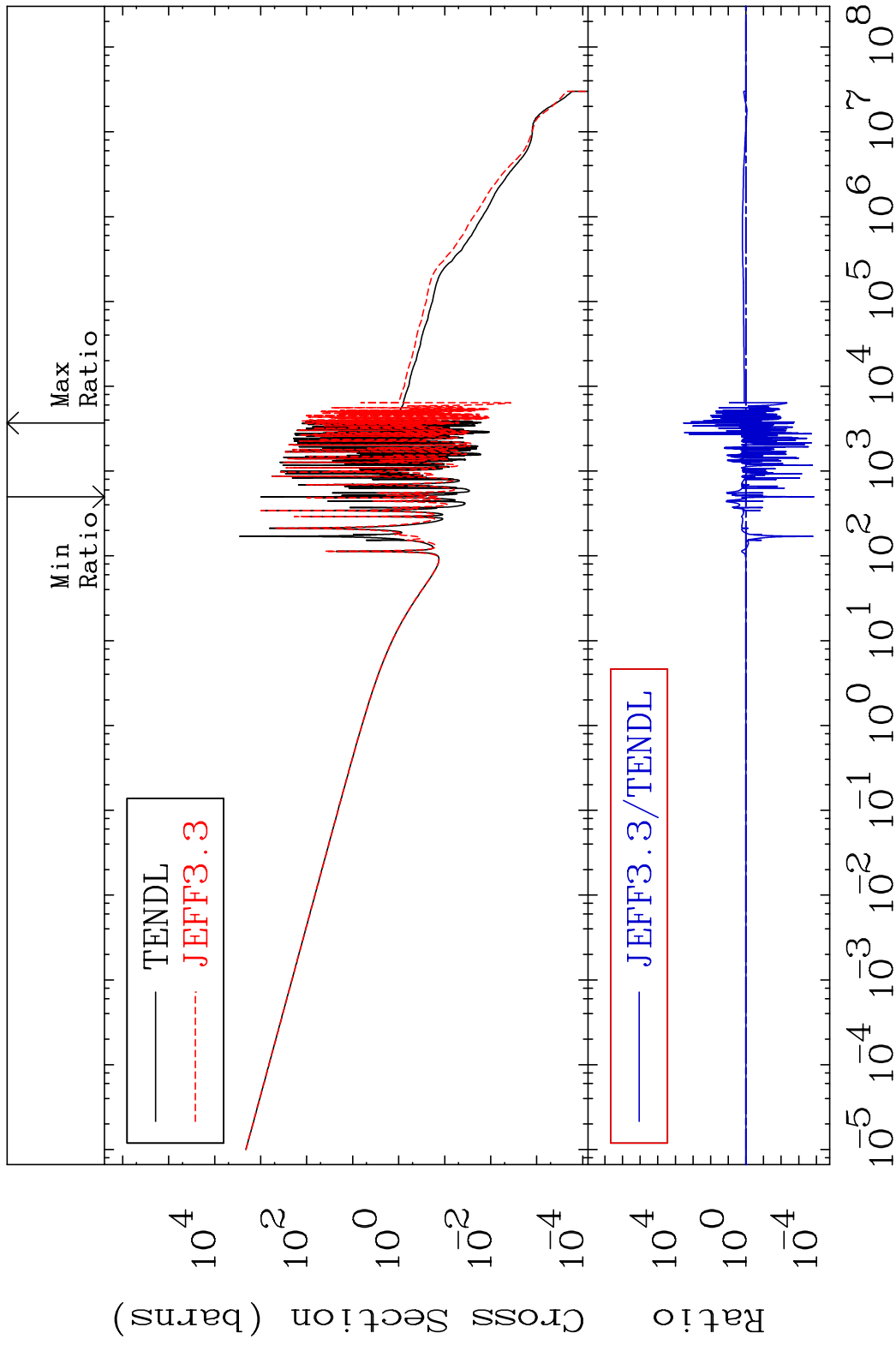


MAT 3434

(n,  $\gamma$ )

34-Se-77

Cross Section -99.99 To 9999. %



36

Incident Energy (eV)

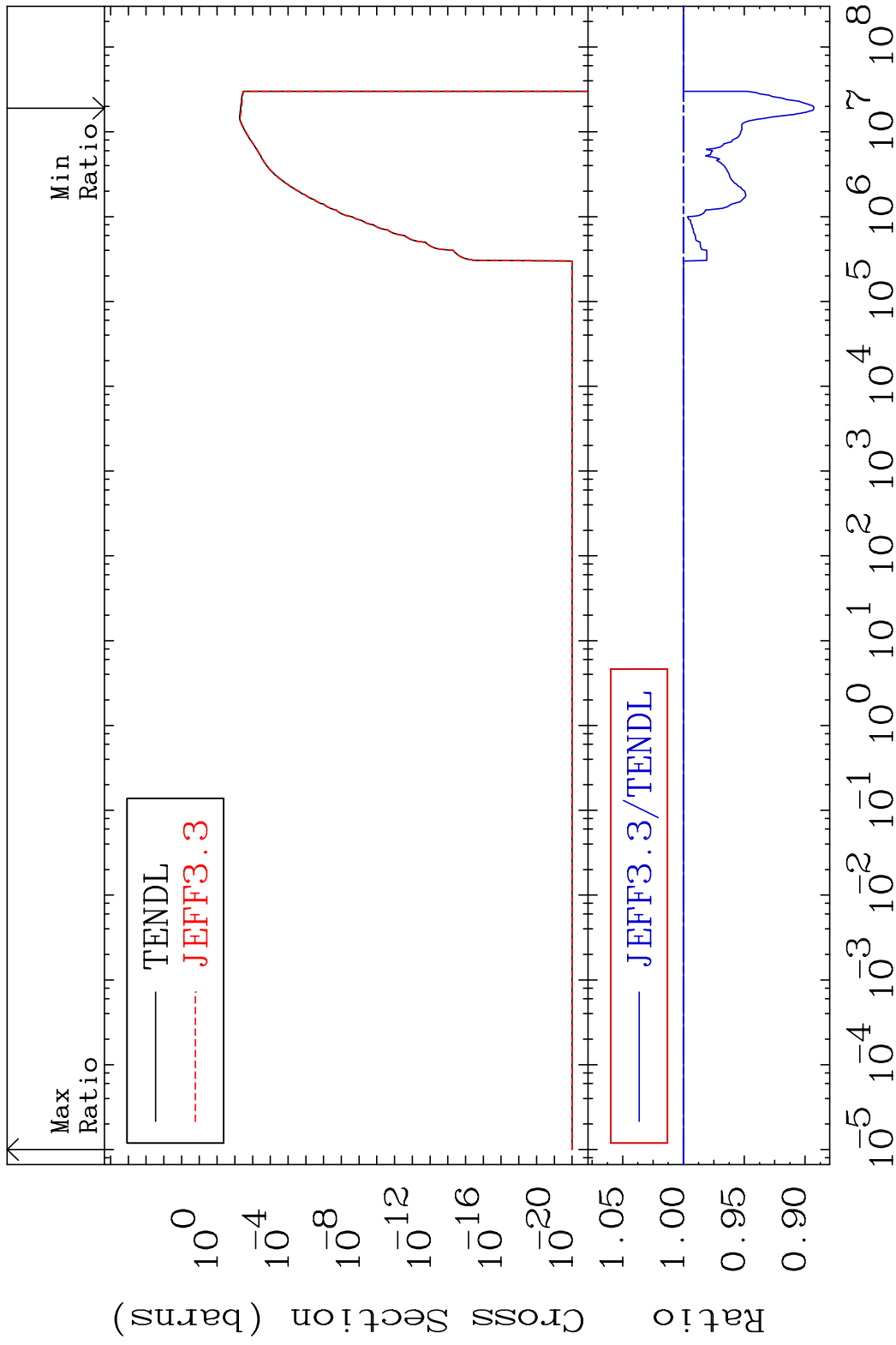
34-Se-77

MAT 3434

(n, p)

34-Se-77

Cross Section -10.72 To 0.000 %



37

Incident Energy (eV)

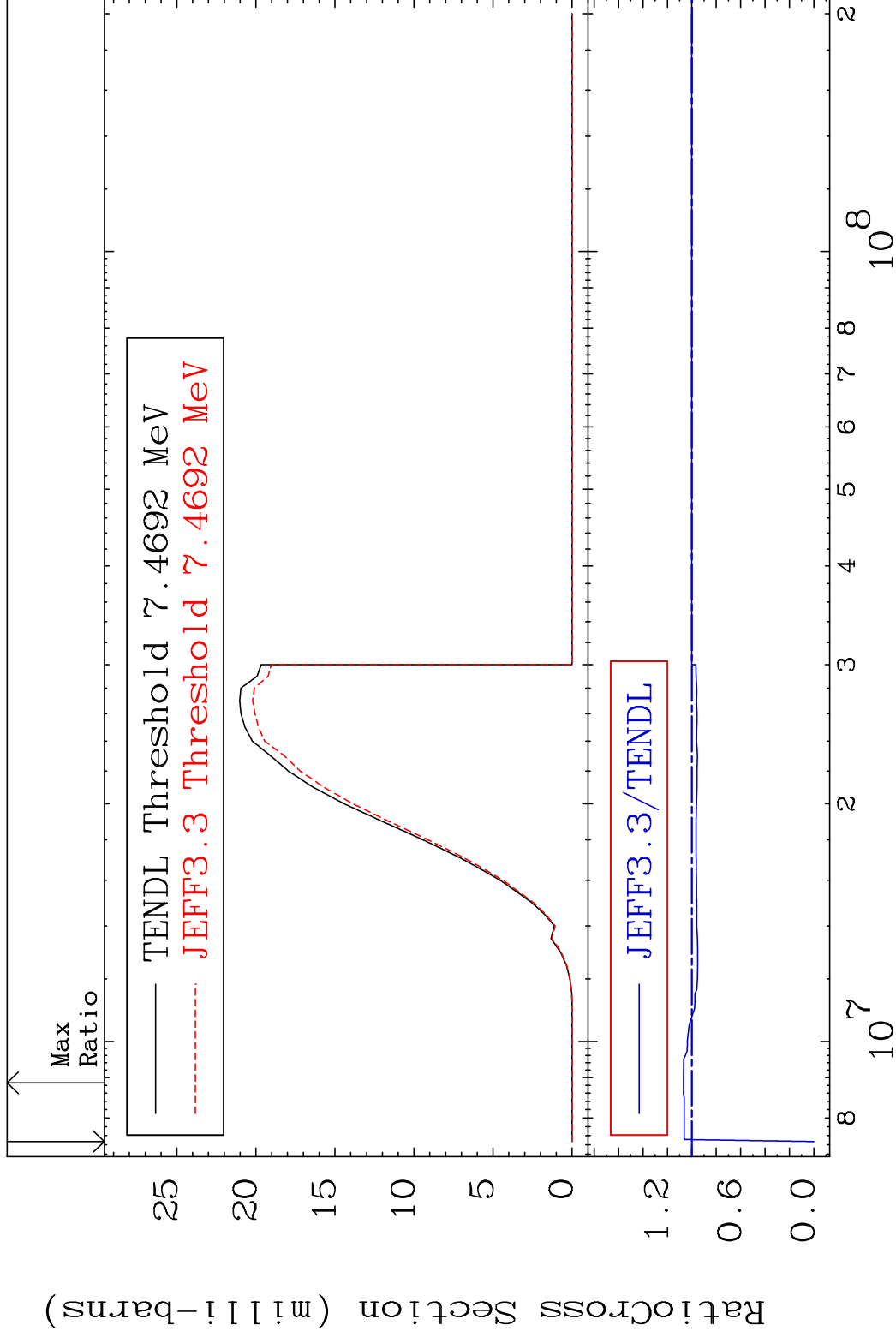
34-Se-77

MAT 3434

(n, d)

<sup>34</sup>Se-77

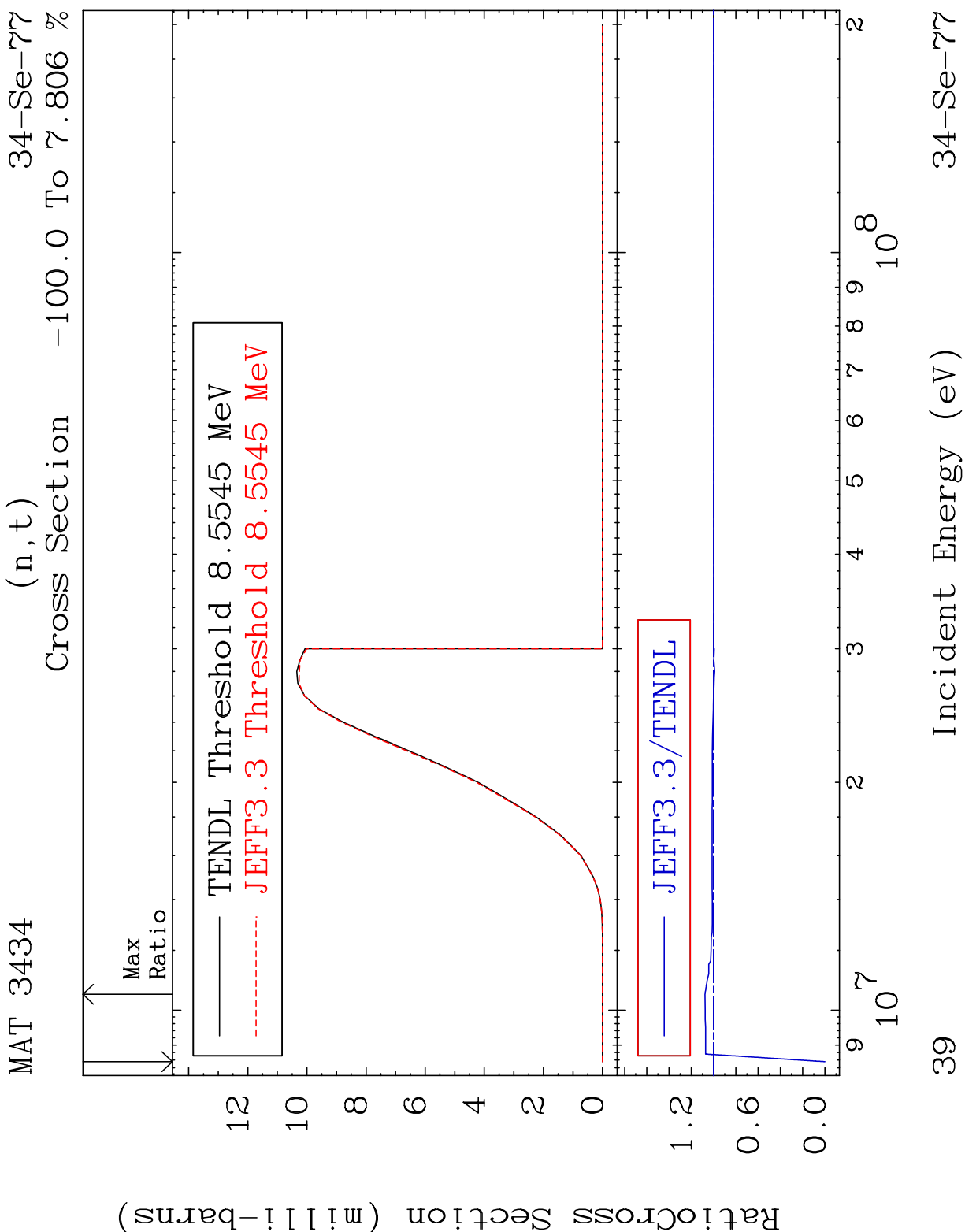
Cross Section -100.0 To 6.853 %



38

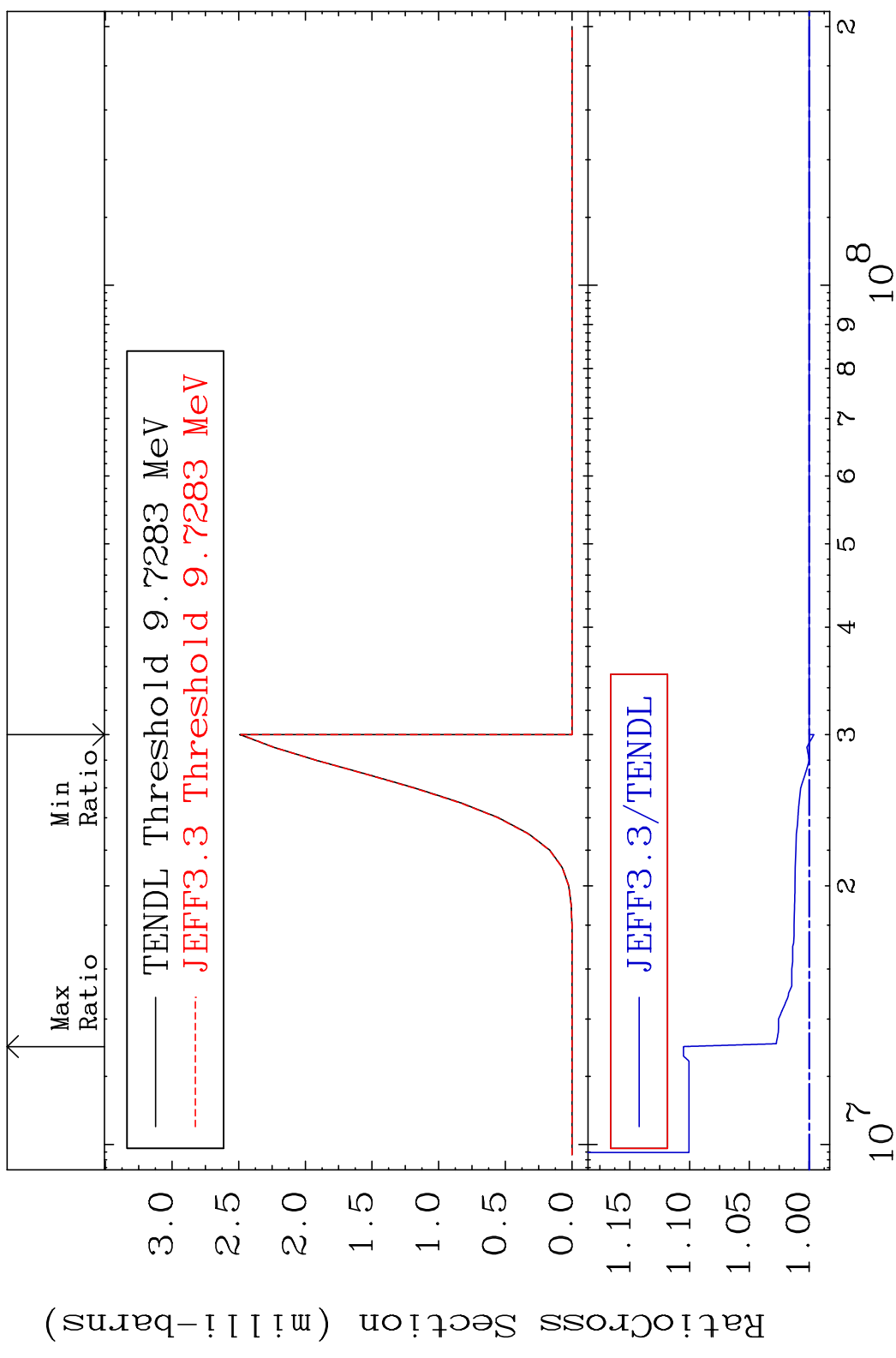
Incident Energy (eV)

<sup>34</sup>Se-77





MAT 3434 (n, He-3) 34-Se-77  
 Cross Section -0.394 To 10.51 %



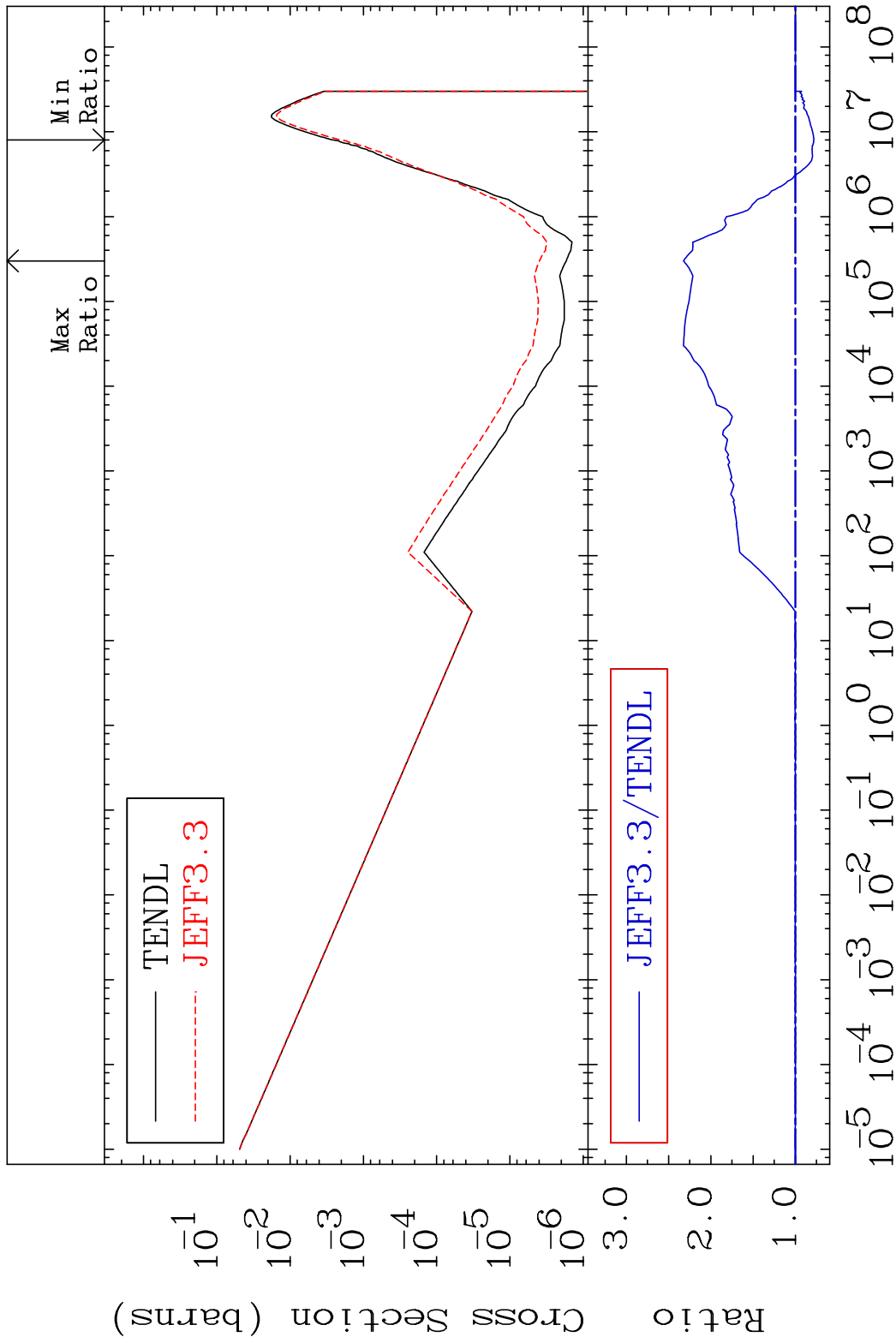
40 Incident Energy (eV) 34-Se-77

MAT 3434

(n,  $\alpha$ )

34-Se-77

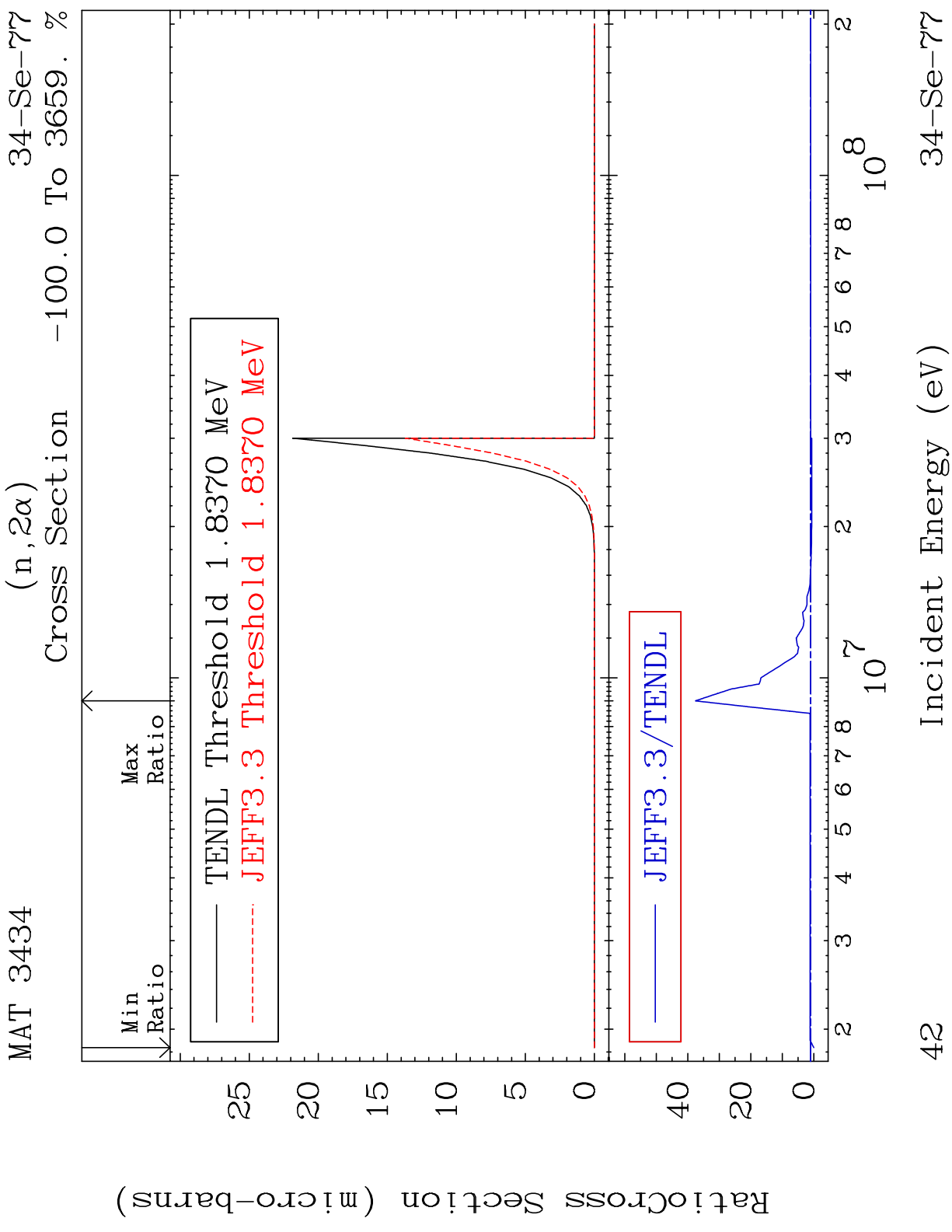
Cross Section -21.96 To 132.4 %



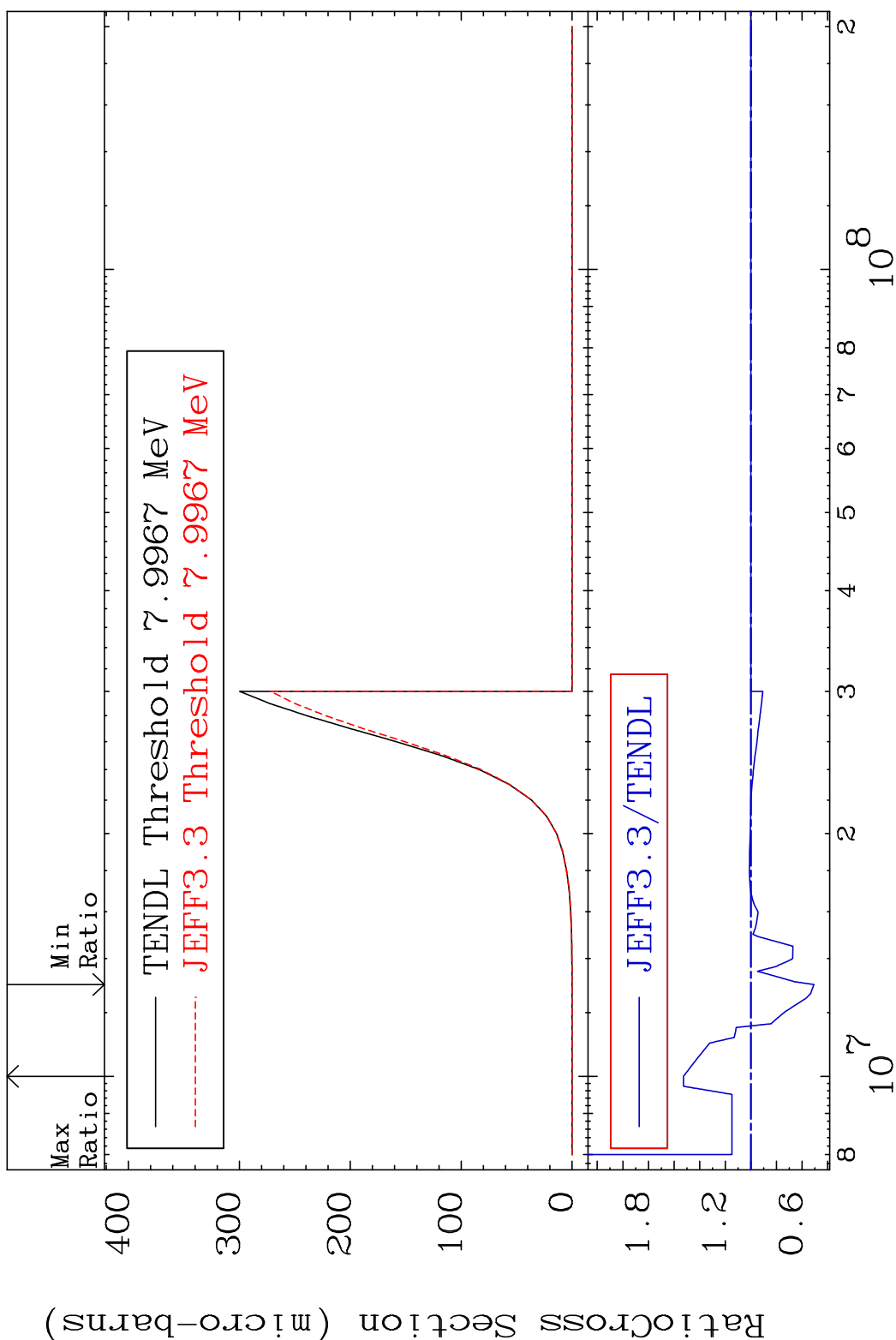
41

Incident Energy (eV)

34-Se-77

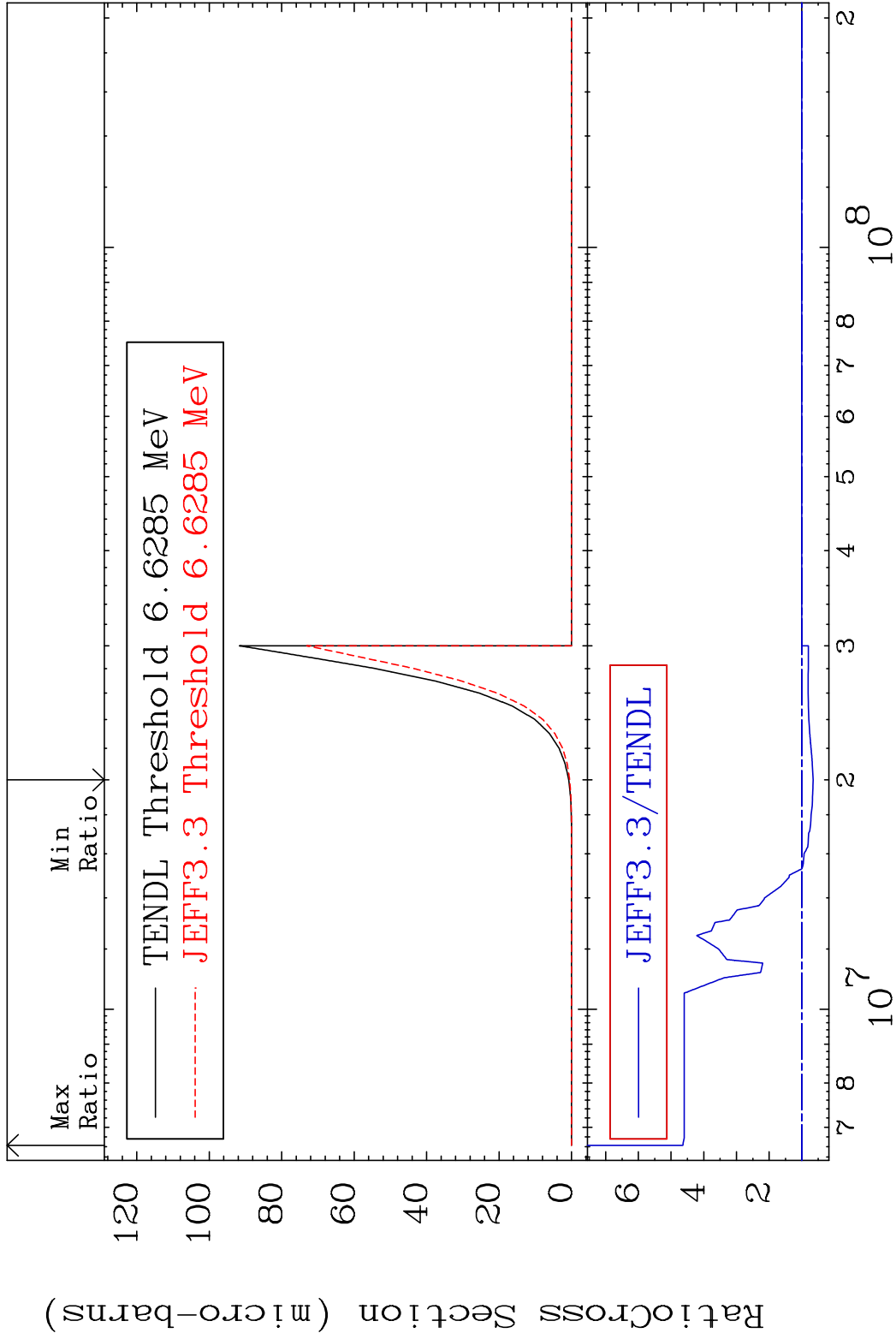


MAT 3434 (n,2p) 34-Se-77  
 Cross Section -49.22 To 52.66 %



43 34-Se-77

MAT 3434 (n,p)  $\alpha$  34-Se-77  
Cross Section -34.46 To 364.1 %



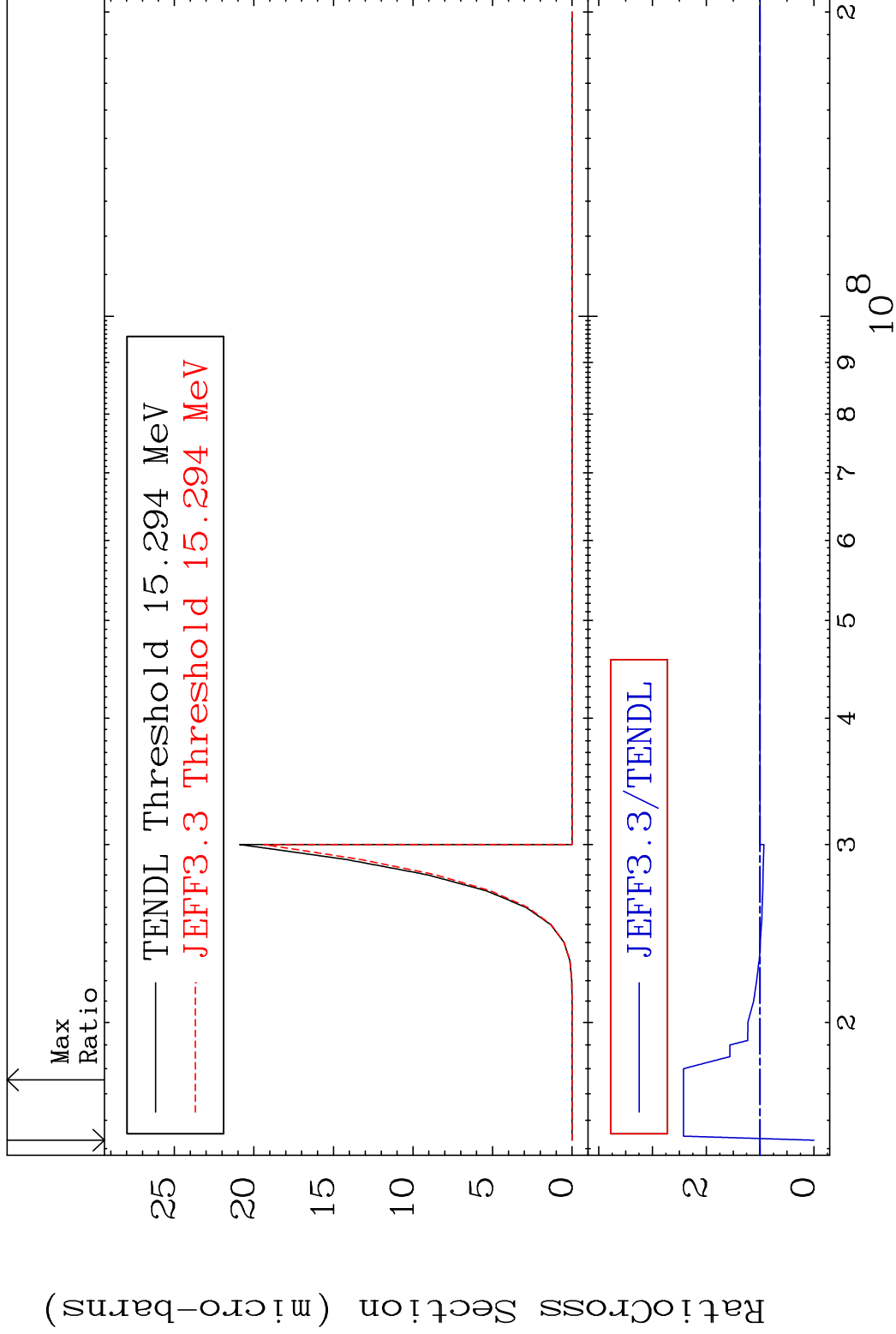
44 34-Se-77

MAT 3434

(n,p) d

<sup>34</sup>Se-77

Cross Section -100.0 To 142.4 %

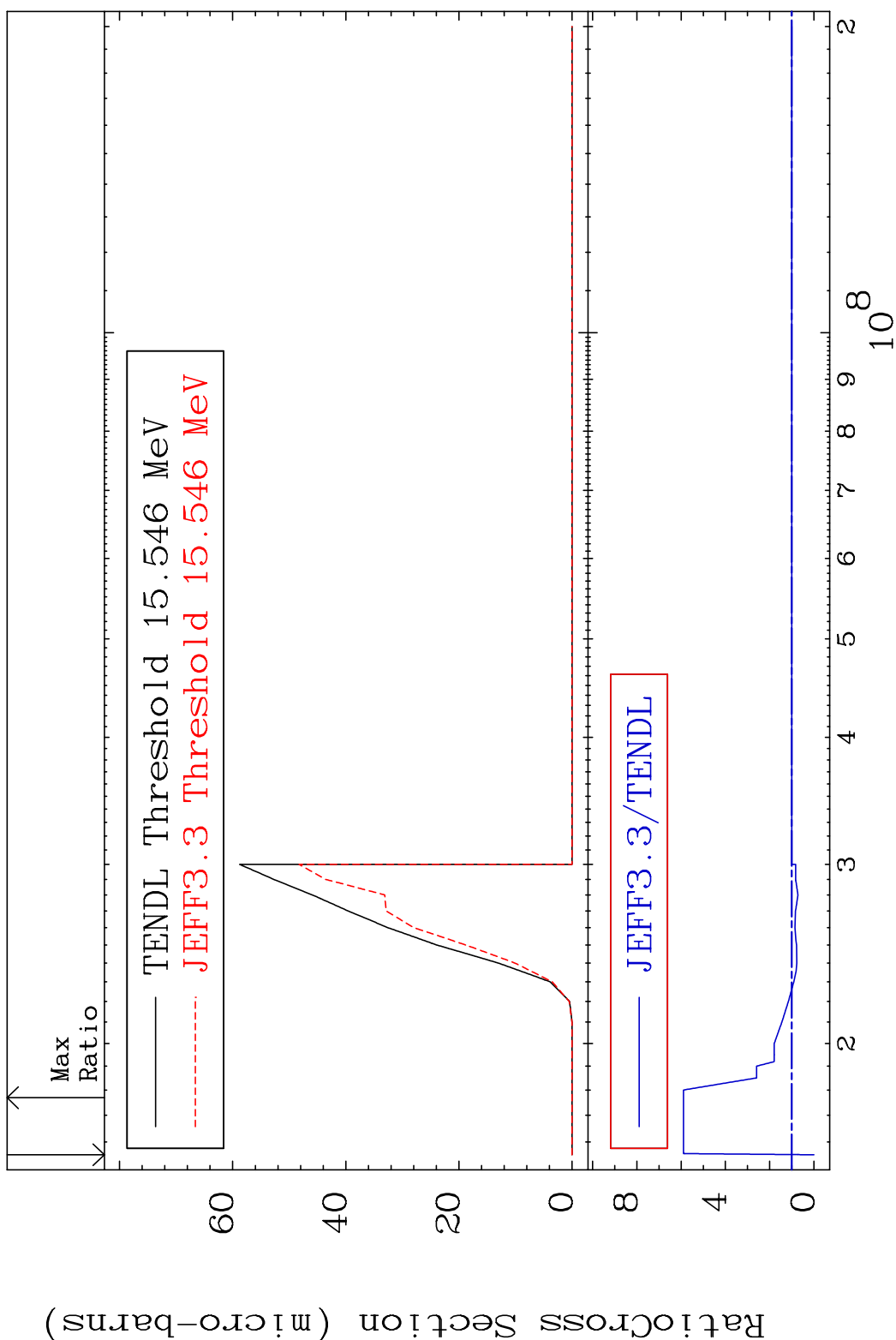


45

Incident Energy (eV)

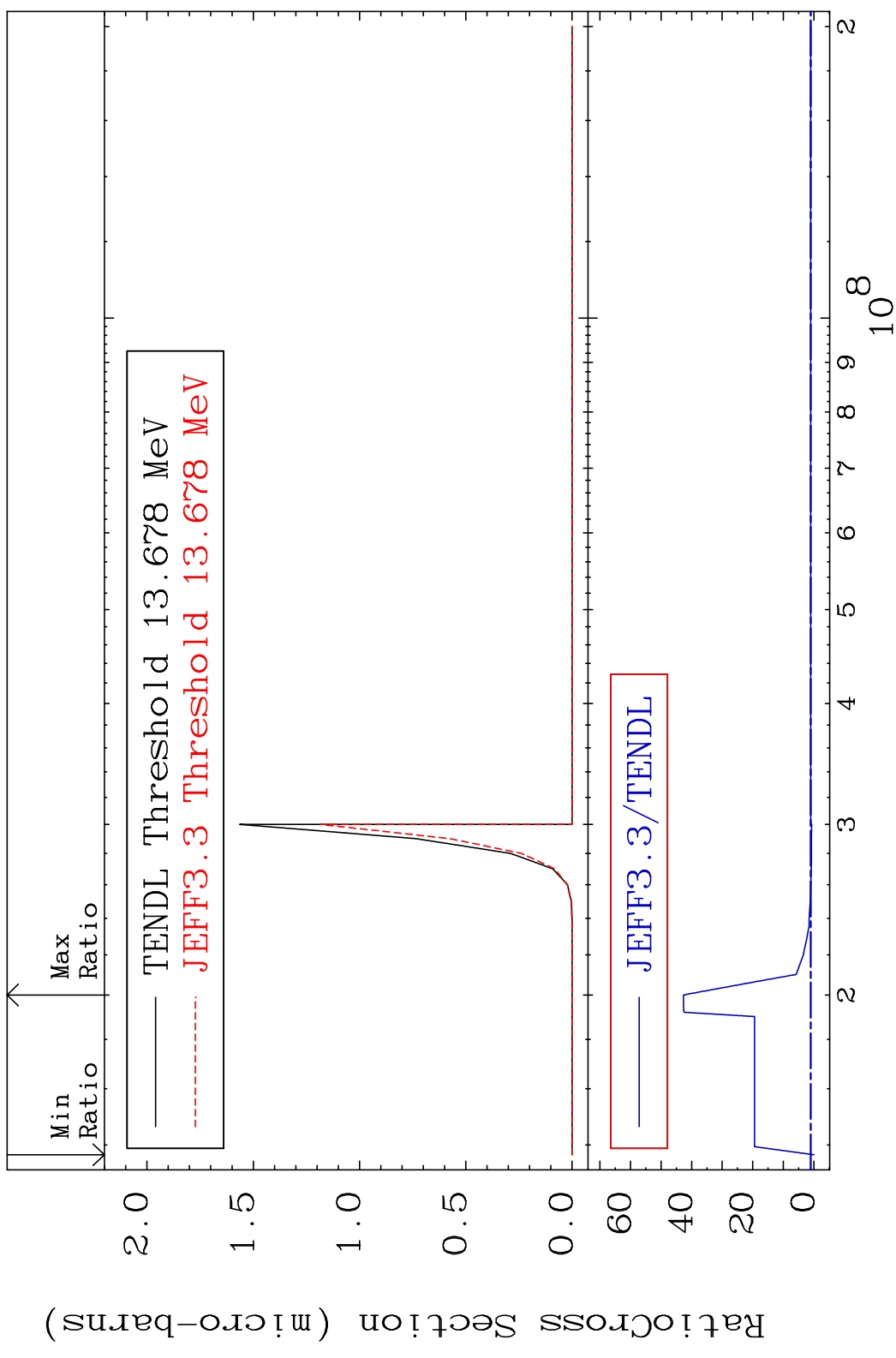
<sup>34</sup>Se-77

MAT 3434 (n,p) t 34-Se-77  
 Cross Section -100.0 To 489.6 %



46 Incident Energy (eV) 34-Se-77

MAT 3434 (n, d)  $\alpha$   $^{34}\text{Se-77}$   
 Cross Section -100.0 To 4168. %



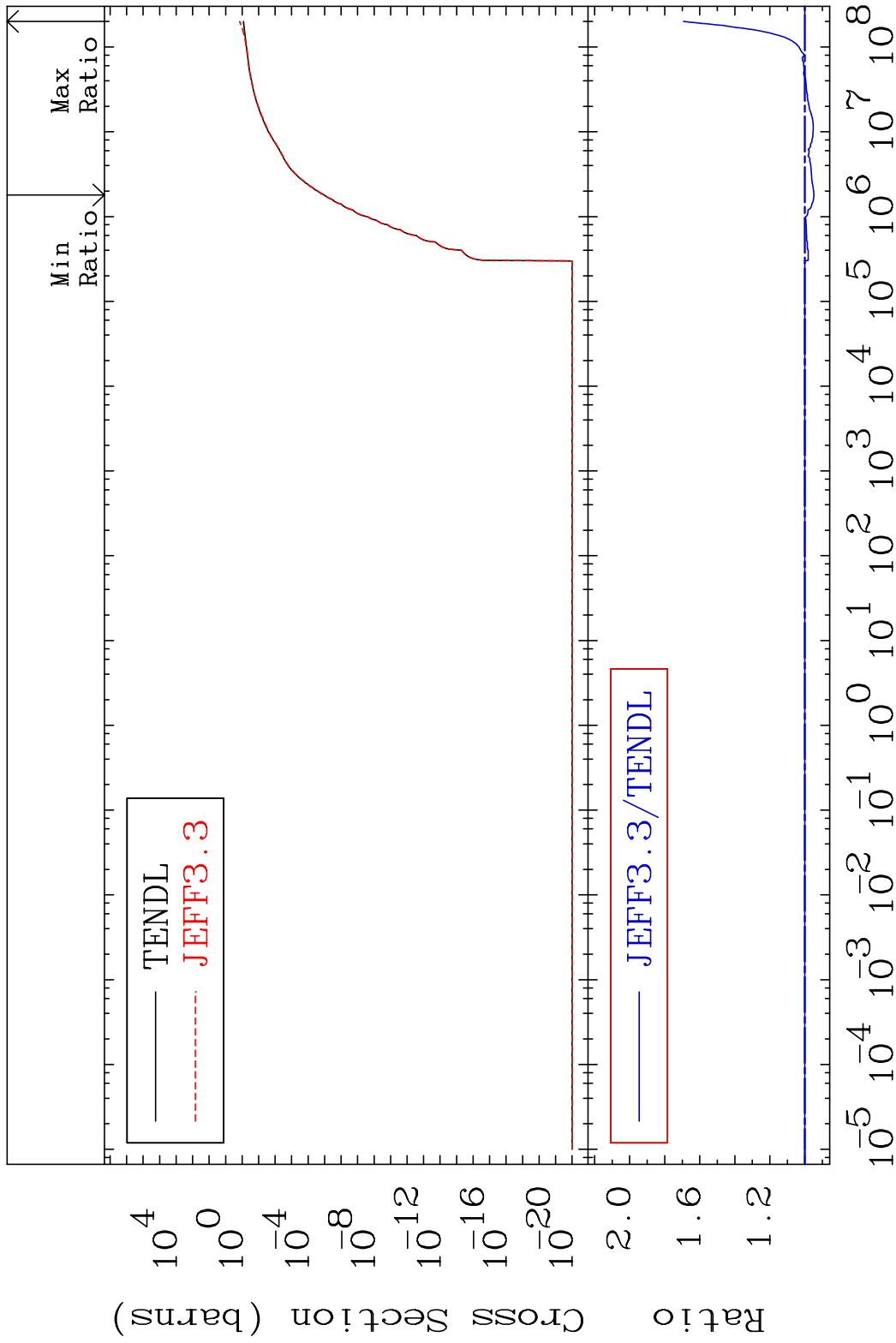


MAT 3434

Hydrogen Production

34-Se-77

Cross Section -5.137 To 69.31 %

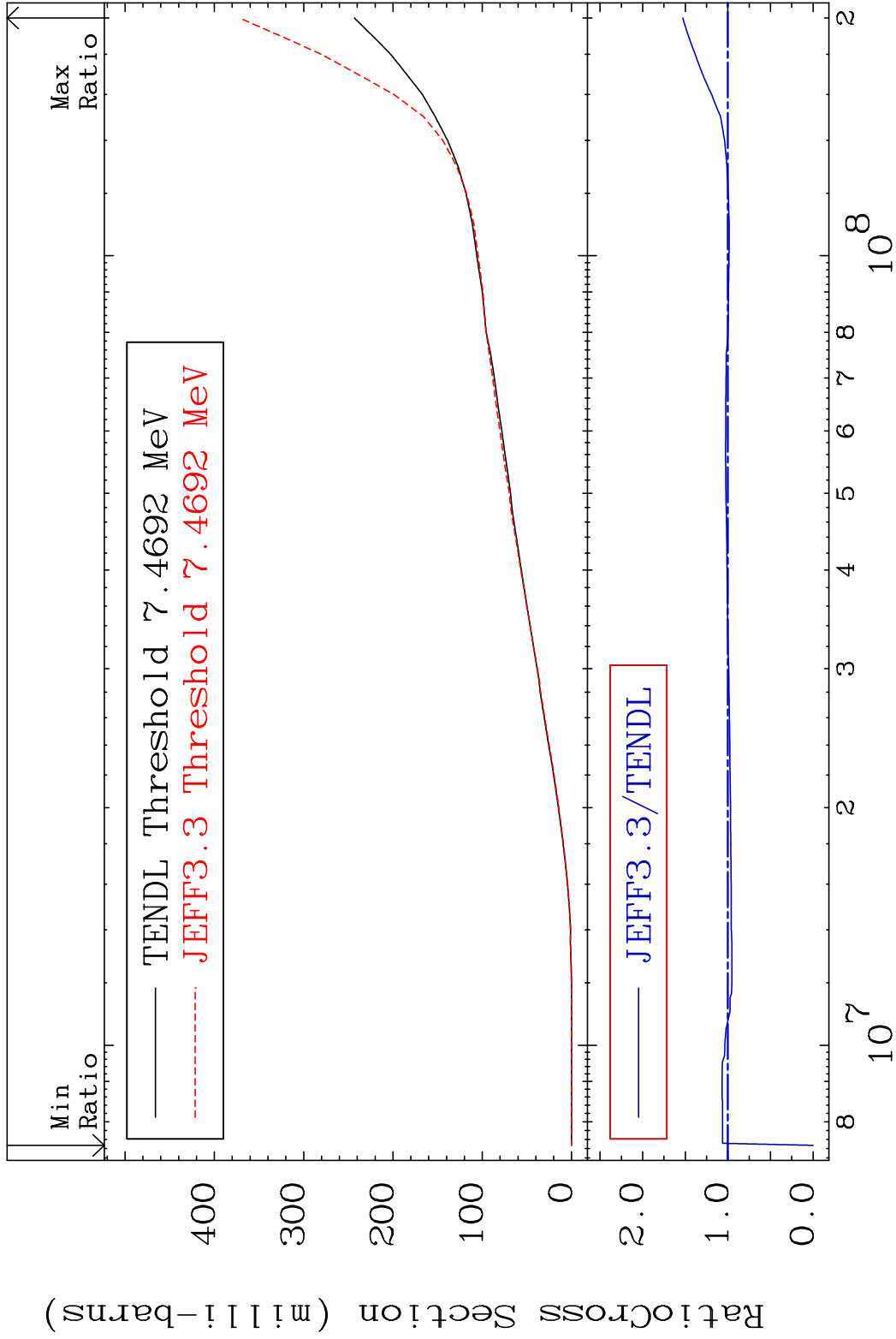


48

Incident Energy (eV)

34-Se-77

MAT 3434 Deuterium Production <sup>34</sup>Se-77  
 Cross Section -100.0 To 52.92 %



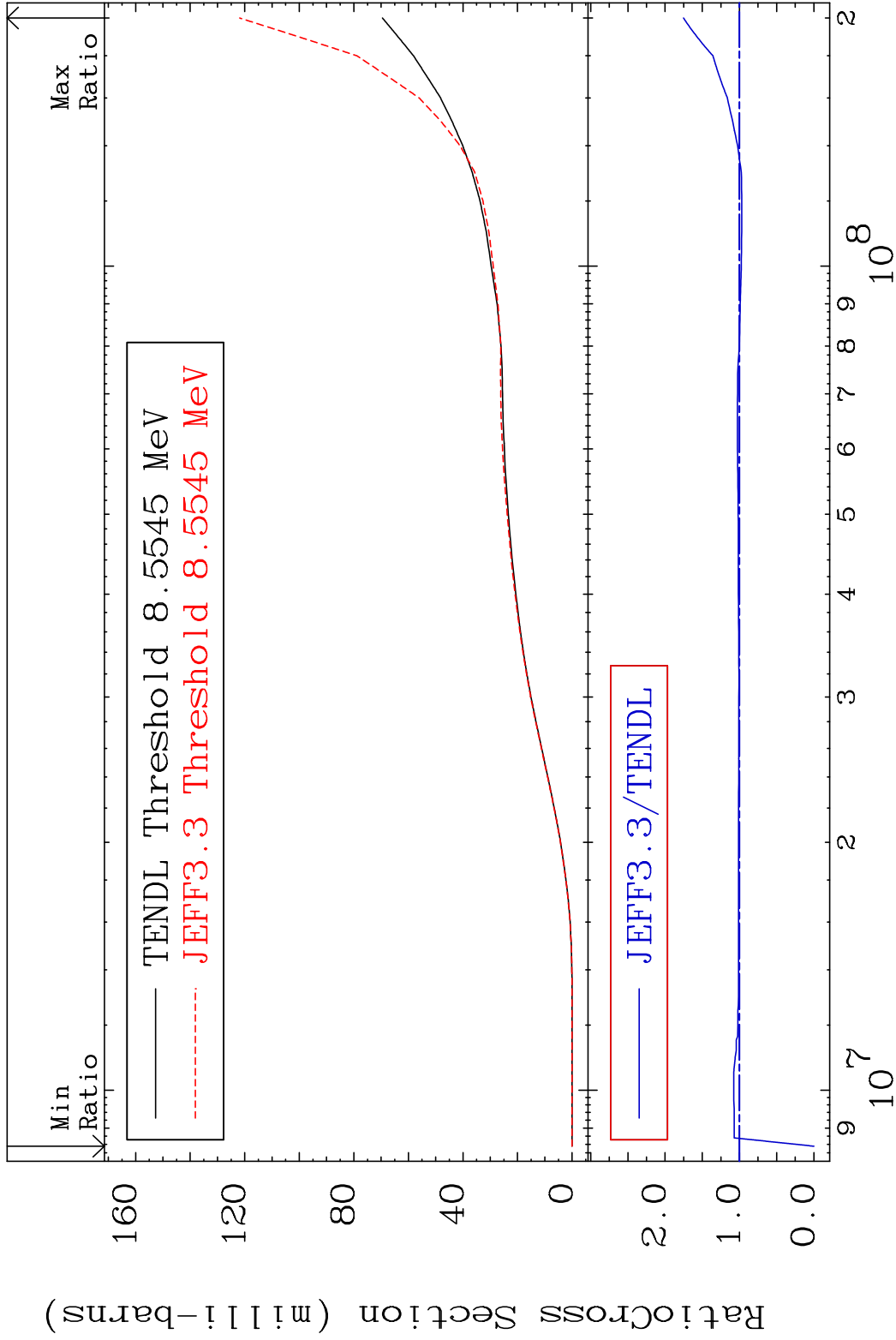
49 34-<sup>Se</sup>-77

MAT 3434

Tritium Production

<sup>34</sup>Se-77

Cross Section -100.0 To 75.29 %



50

Incident Energy (eV)

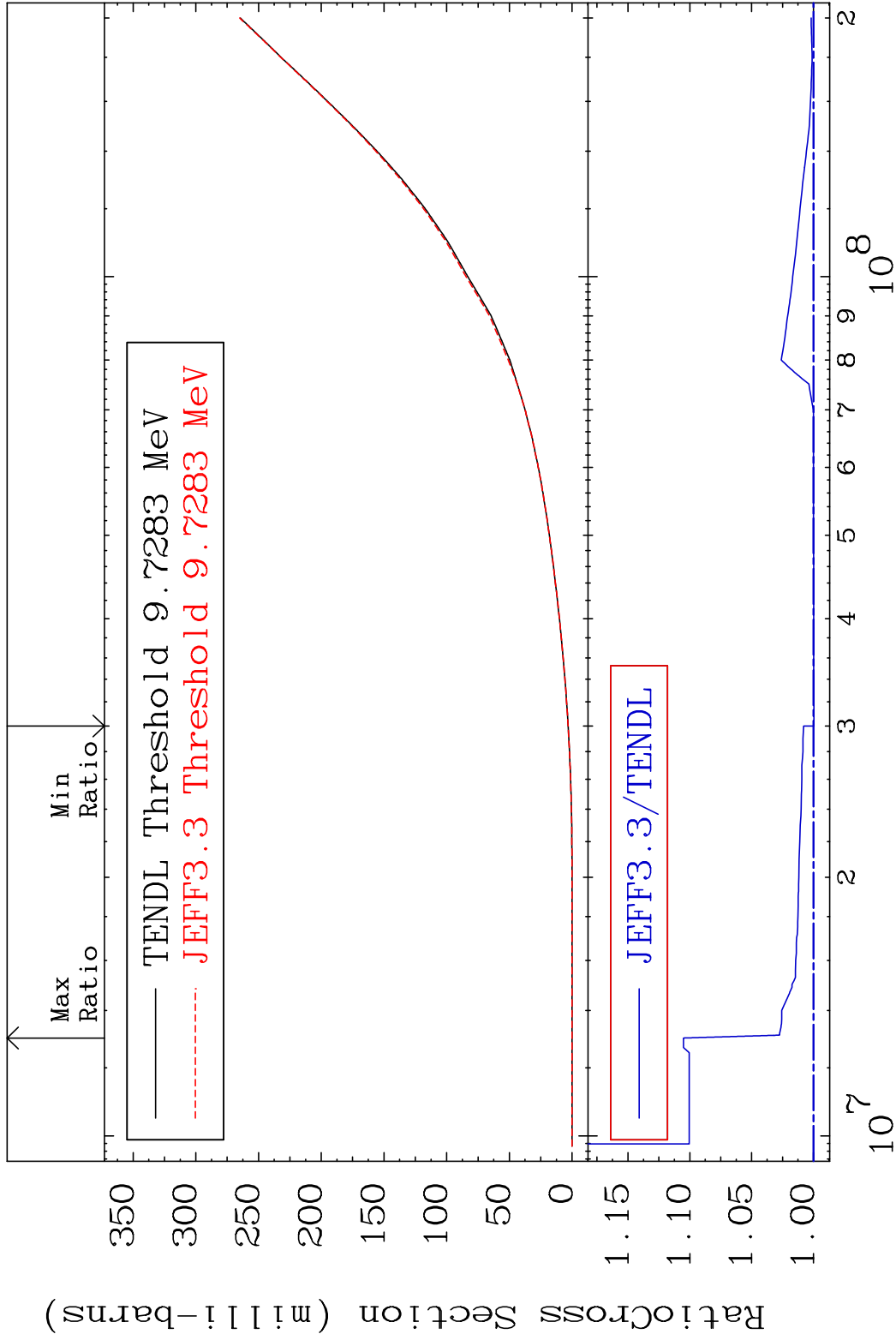
<sup>34</sup>Se-77

MAT 3434

He-3 Production

34-Se-77

Cross Section -0.033 To 10.51 %



51

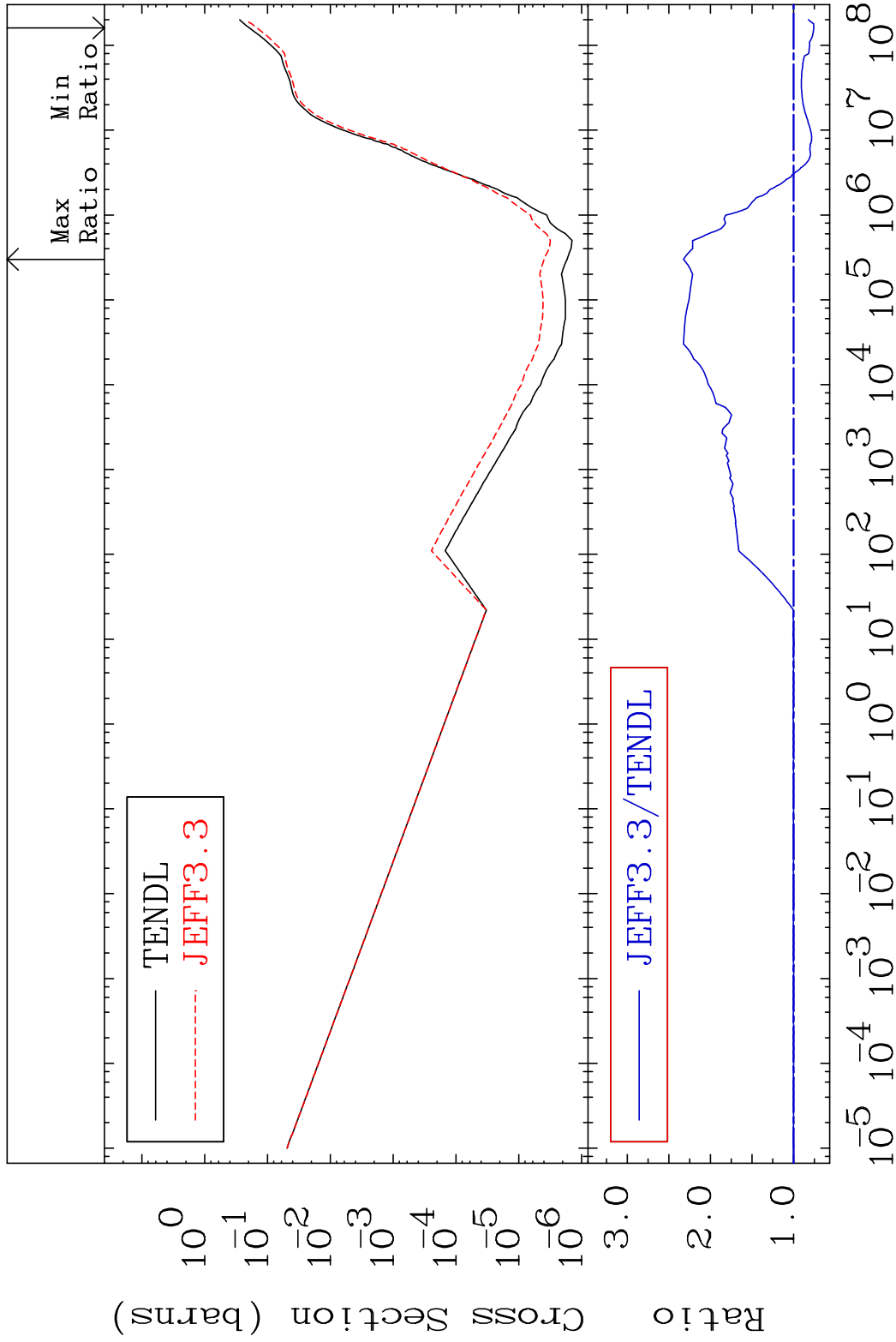
Incident Energy (eV)

34-Se-77

MAT 3434

He-4 Production  
Cross Section

34-Se-77  
-24.52 To 132.4 %

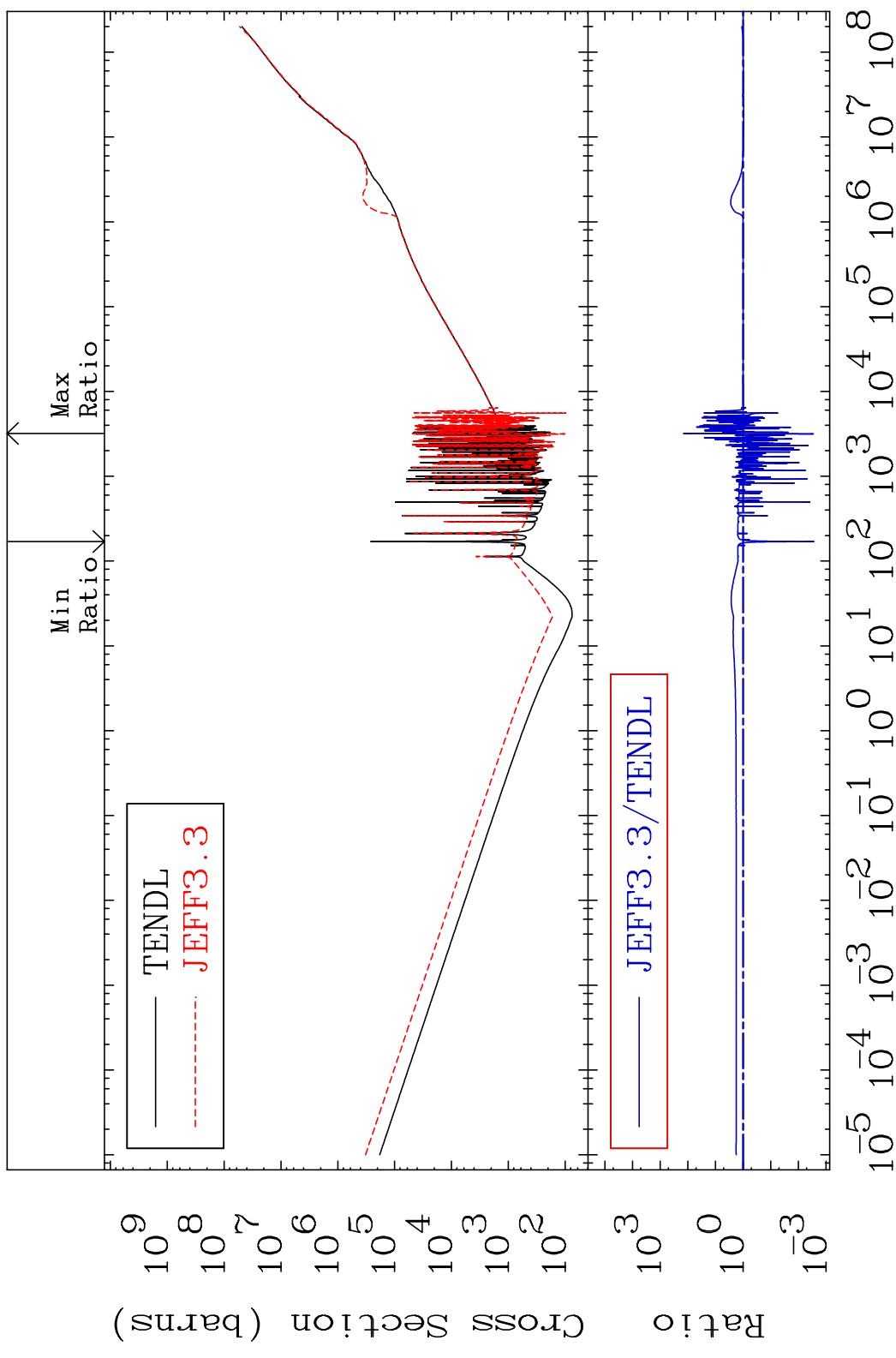


52

Incident Energy (eV)

34-Se-77

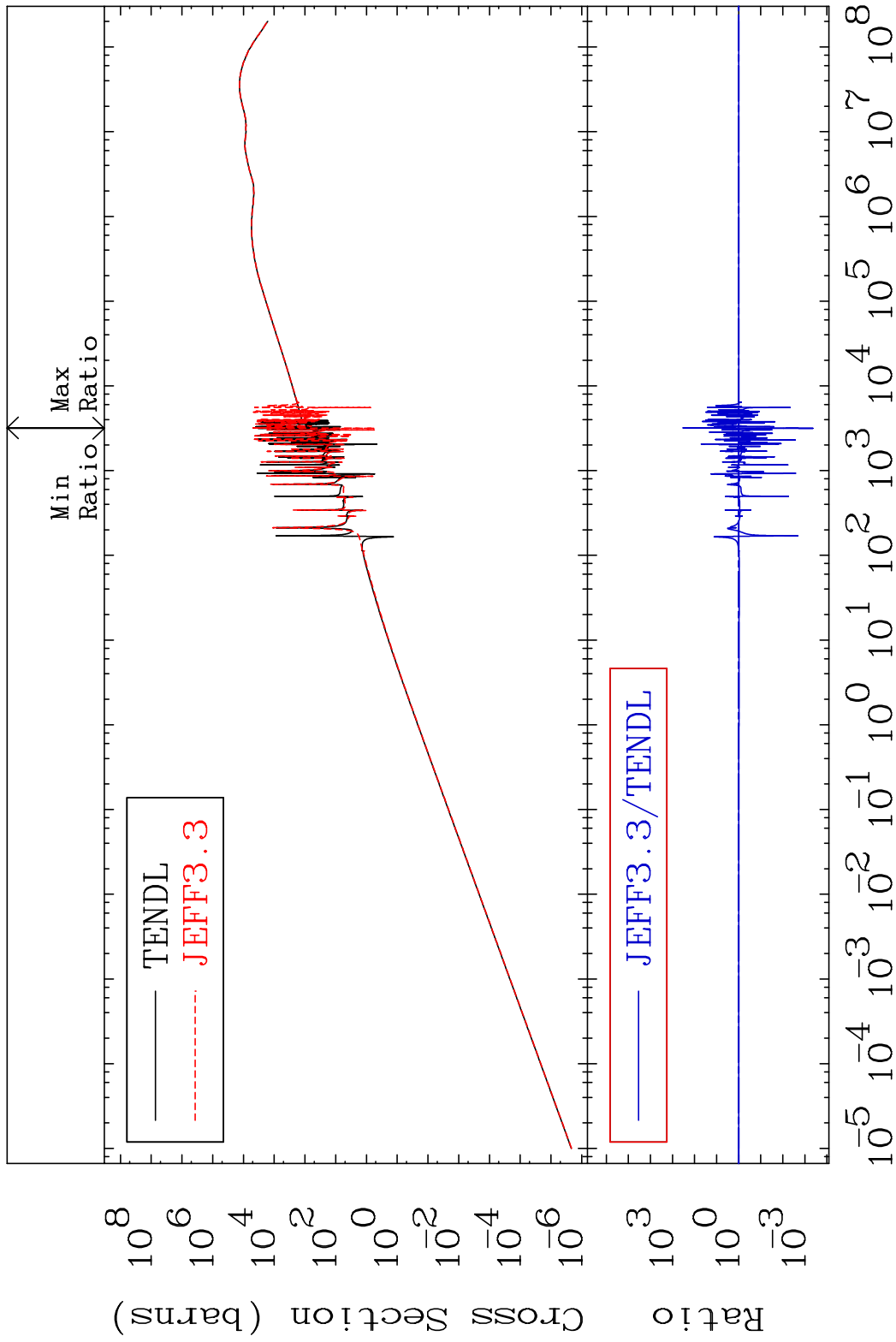
MAT 3434 Kerma total (eV-barns) 34-Se-77  
 Cross Section -99.73 To 9999. %



53 Incident Energy (eV) 34-Se-77

MAT 3434

Kerma elastic Cross Section -99.96 To 9999. %  
34-Se-77

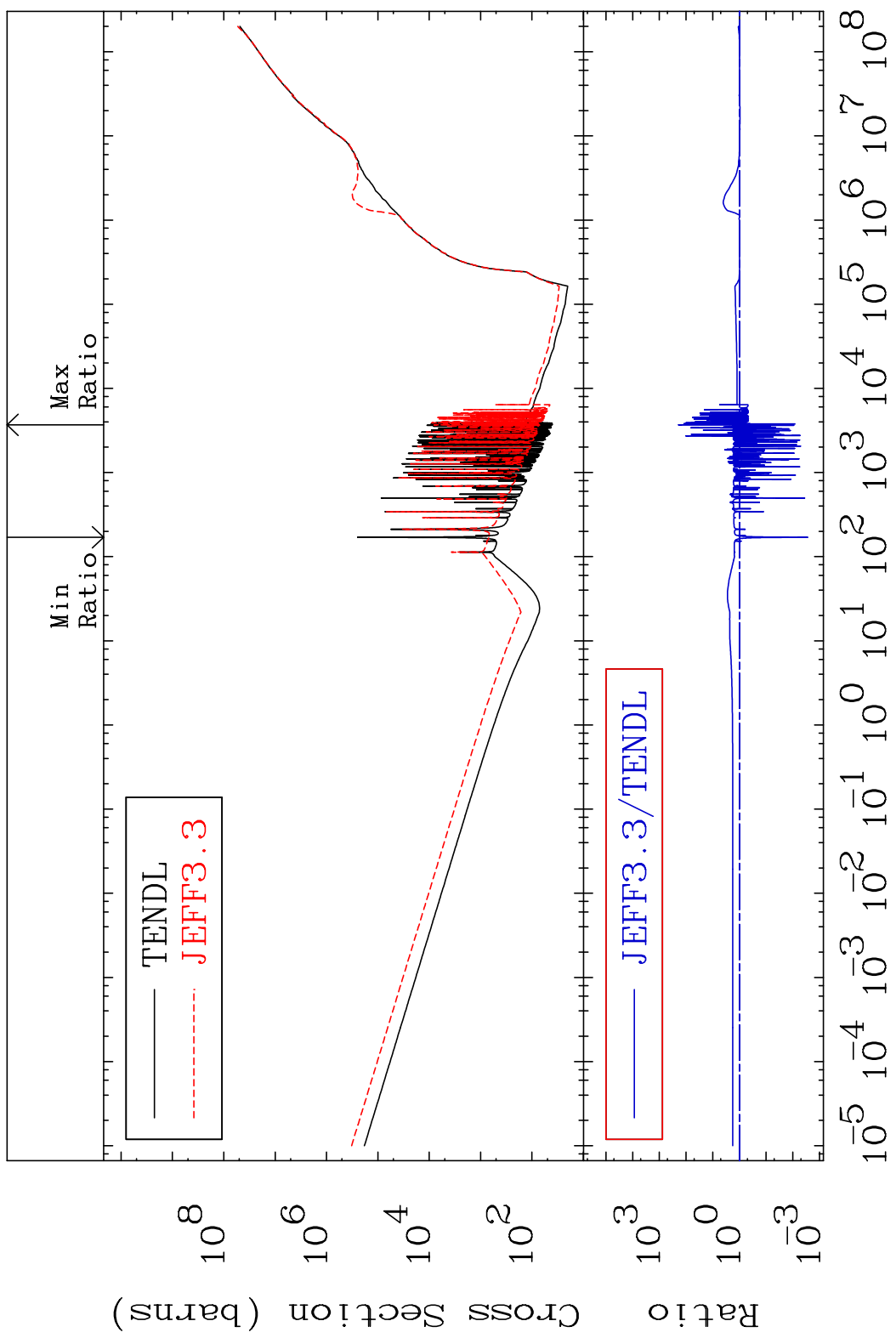


54

Incident Energy (eV)

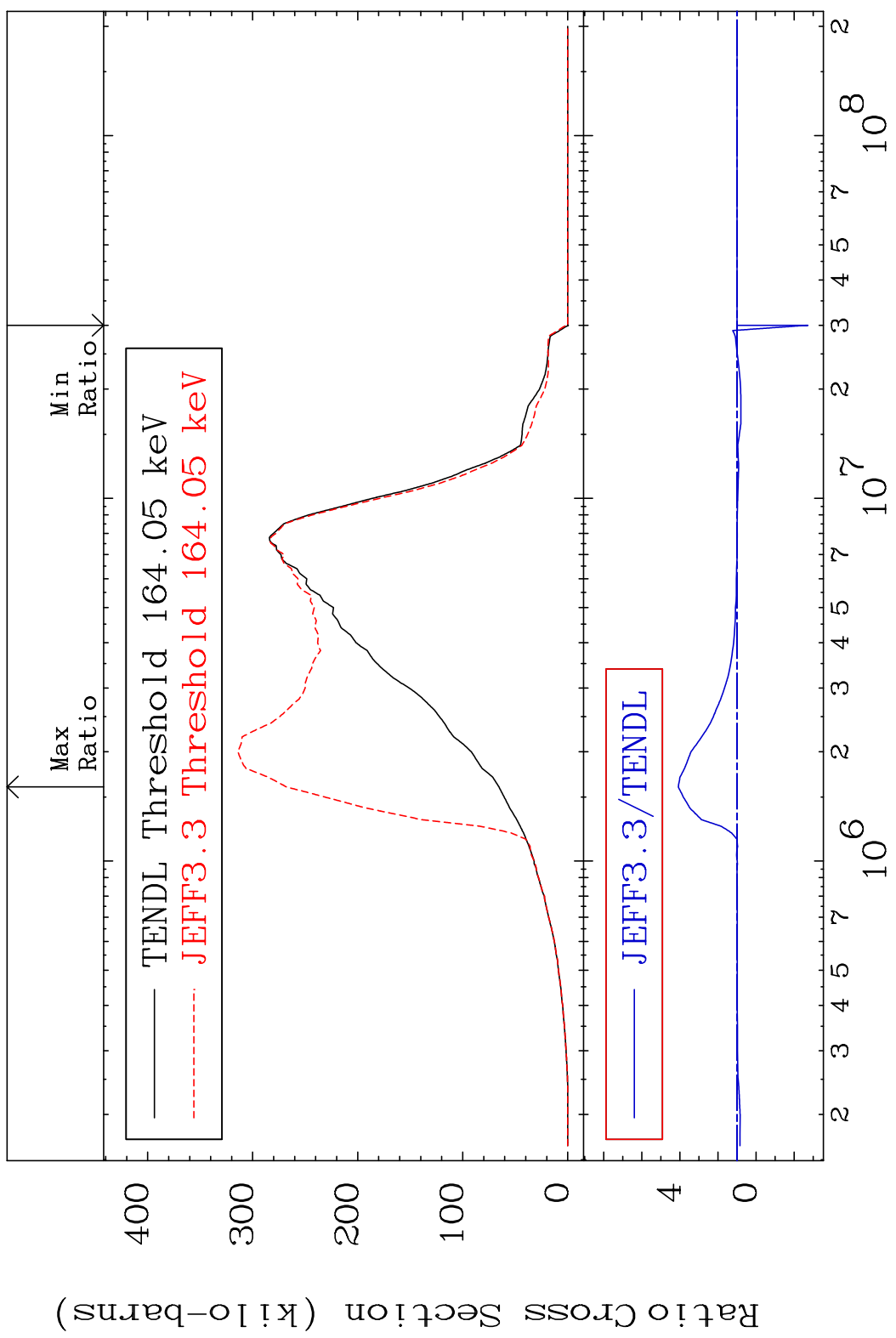
34-Se-77

MAT 3434 Kerma non-elastic (all but mt2) 34-Se-77  
 Cross Section -99.72 To 9999. %

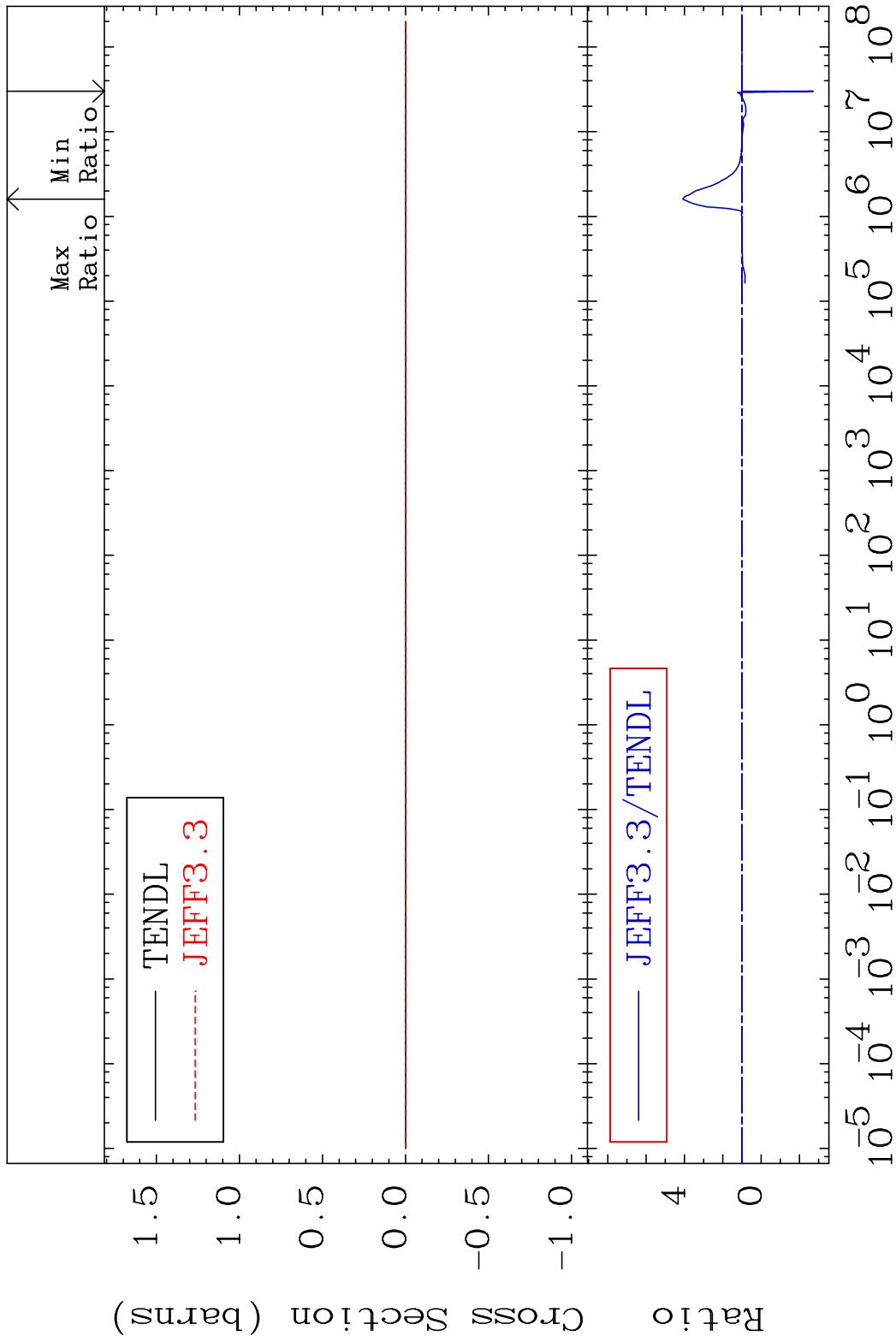


55 Incident Energy (eV) 34-Se-77

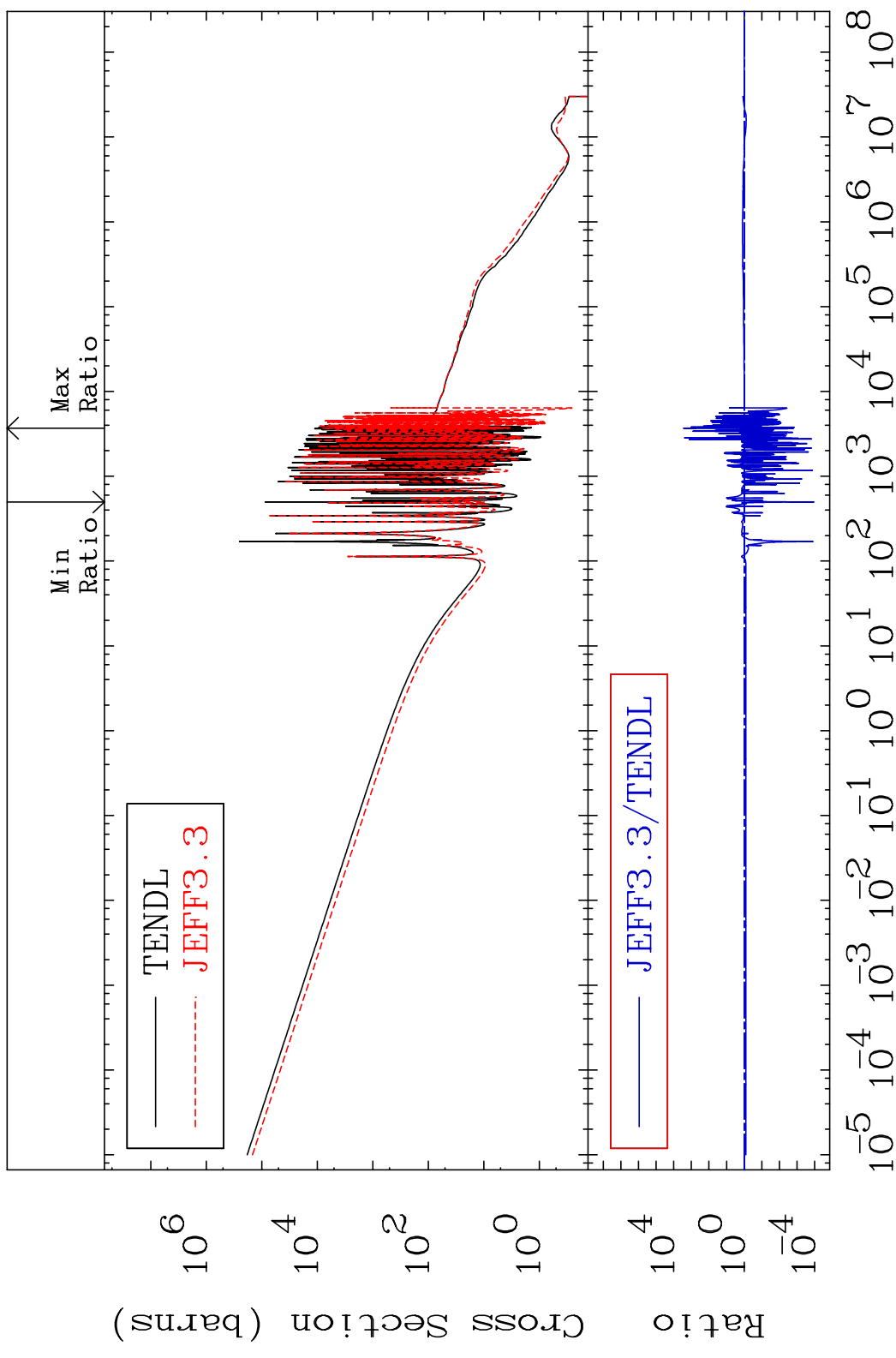




MAT 3434 Kerma fission (mt18 or mt19-20-21-38) 34-Se-77  
 Cross Section -371.1 To 308.7 %

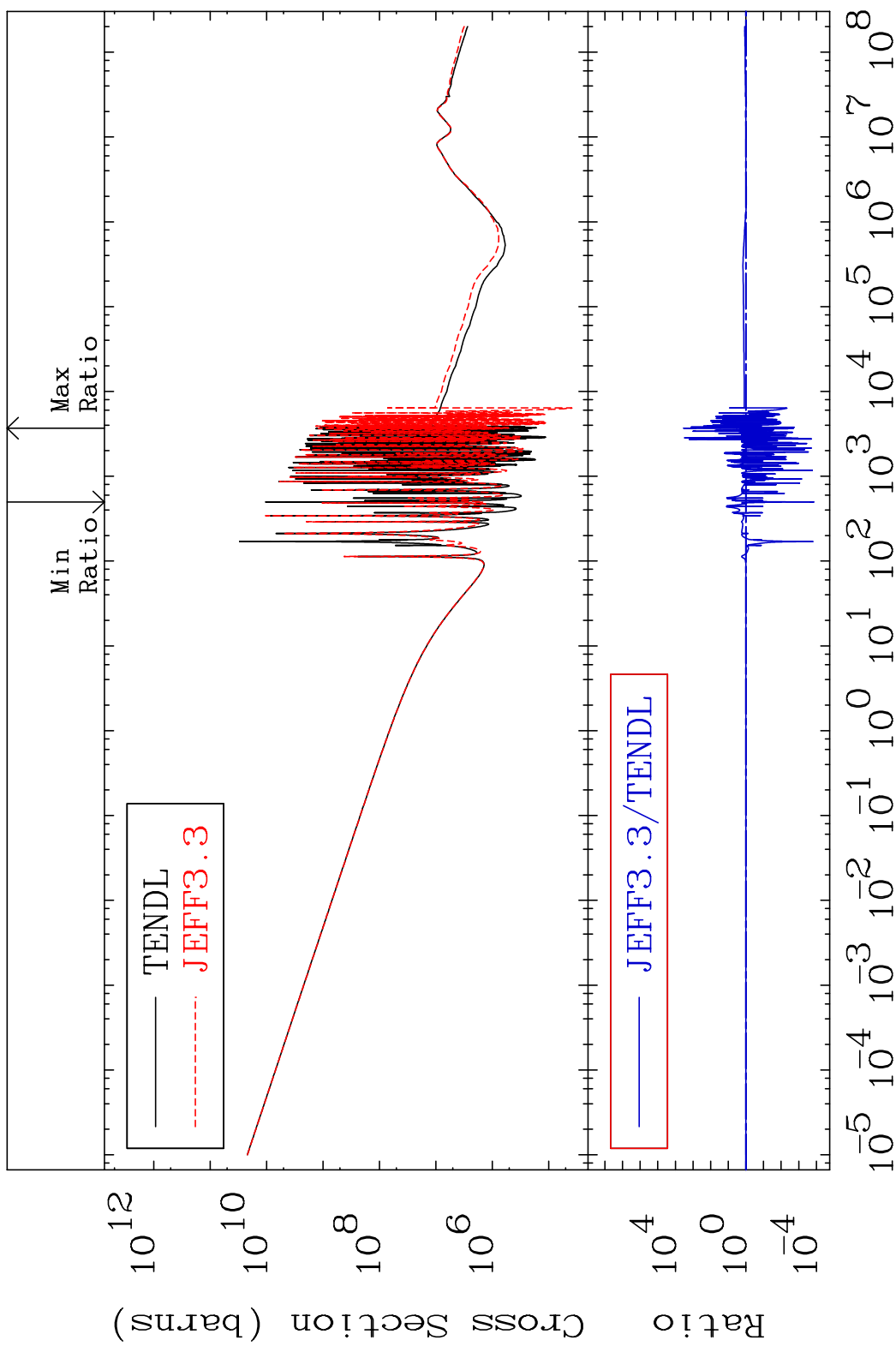


MAT 3434 Kerma capture (mt102) 34-Se-77  
 Cross Section -99.99 To 9999. %



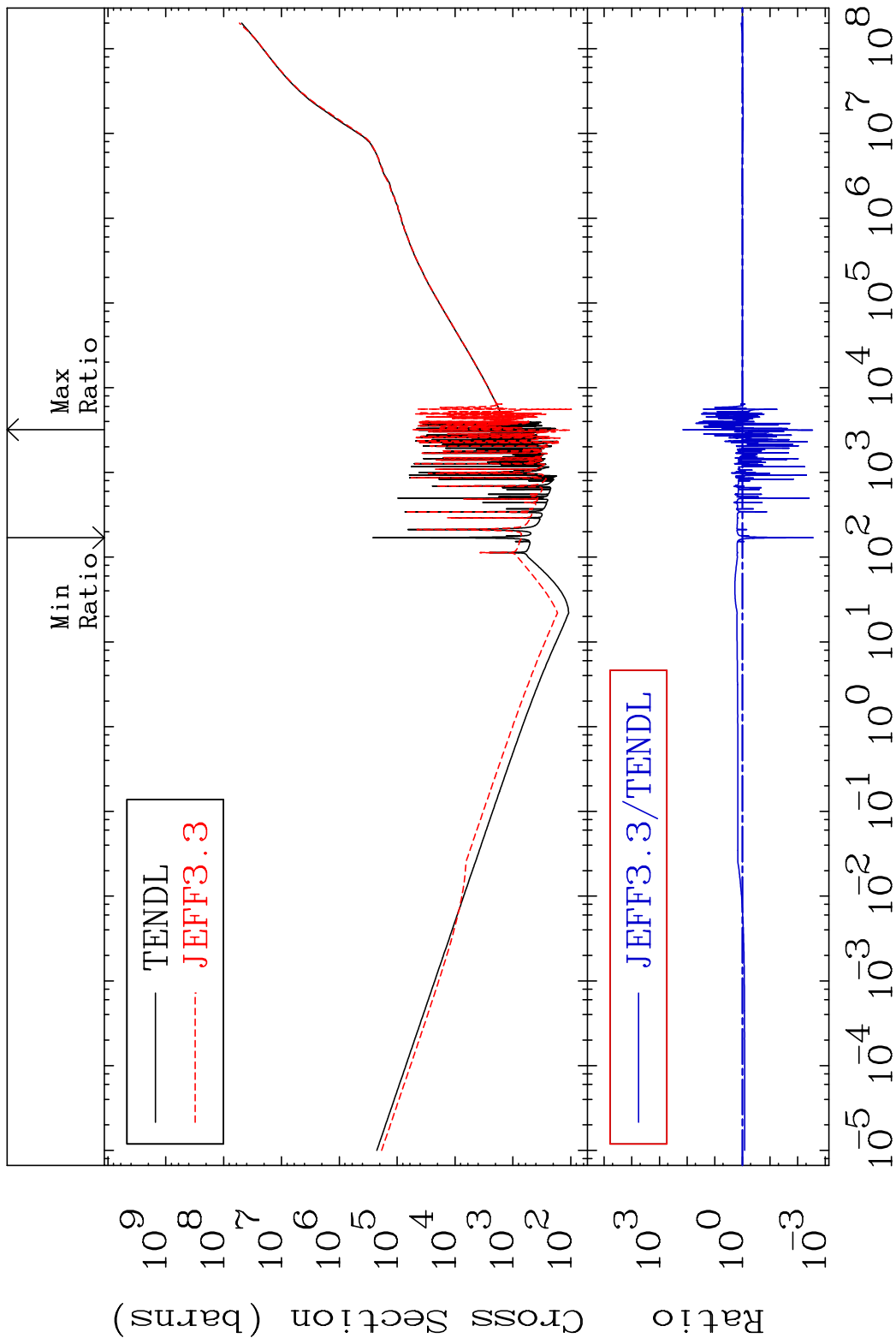
58 Incident Energy (eV) 34-Se-77

MAT 3434 Total photon (eV-barns) 34-Se-77  
 Cross Section -99.99 To 9999. %

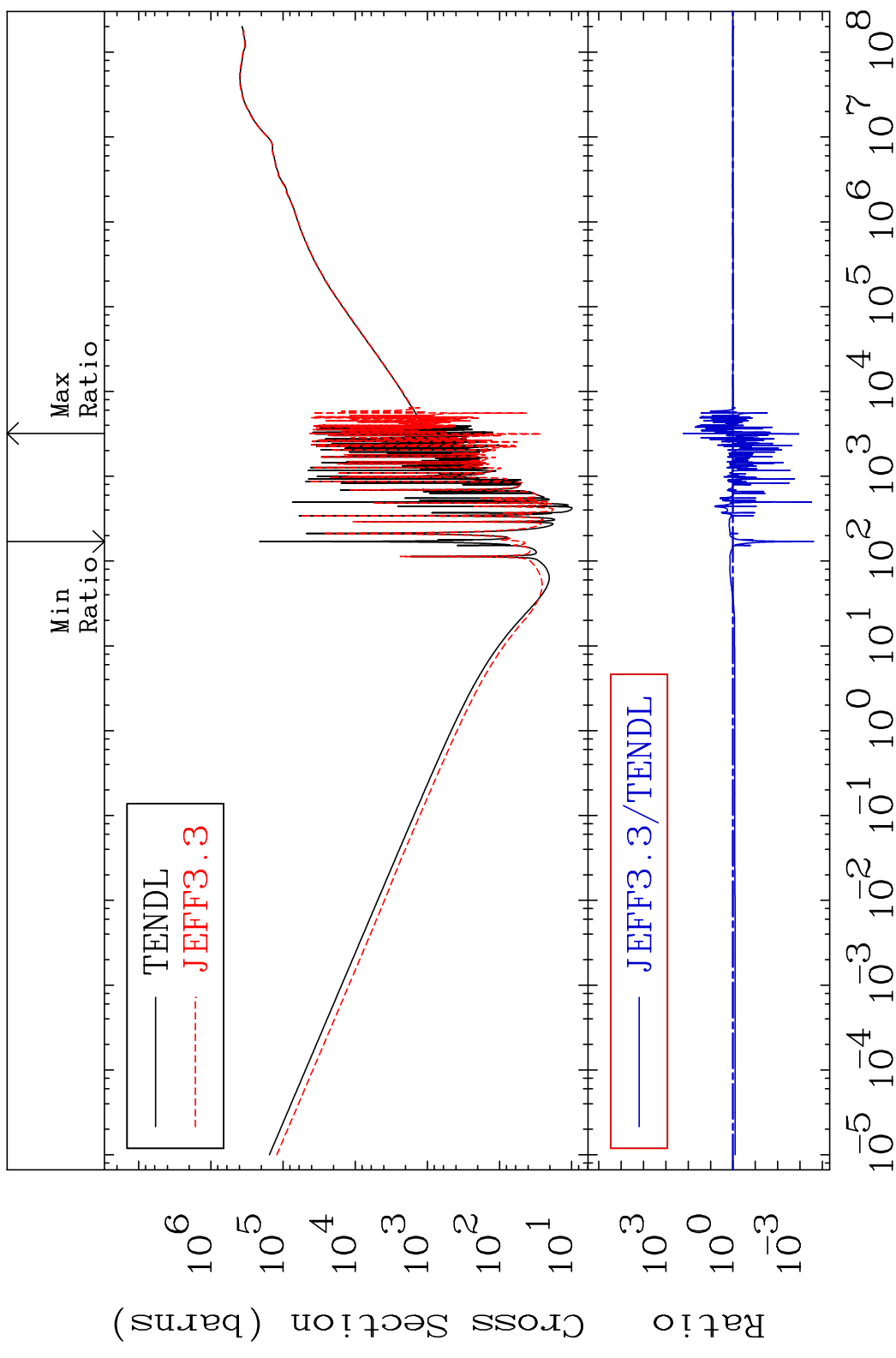


59 Incident Energy (eV) 34-Se-77

MAT 3434 Total kinematic kerma (high limit) 34-Se-77  
 Cross Section -99.72 To 9999. %



MAT 3434      Dpa total (eV-barns)      34-Se-77  
 Cross Section      -99.98 To 9999. %

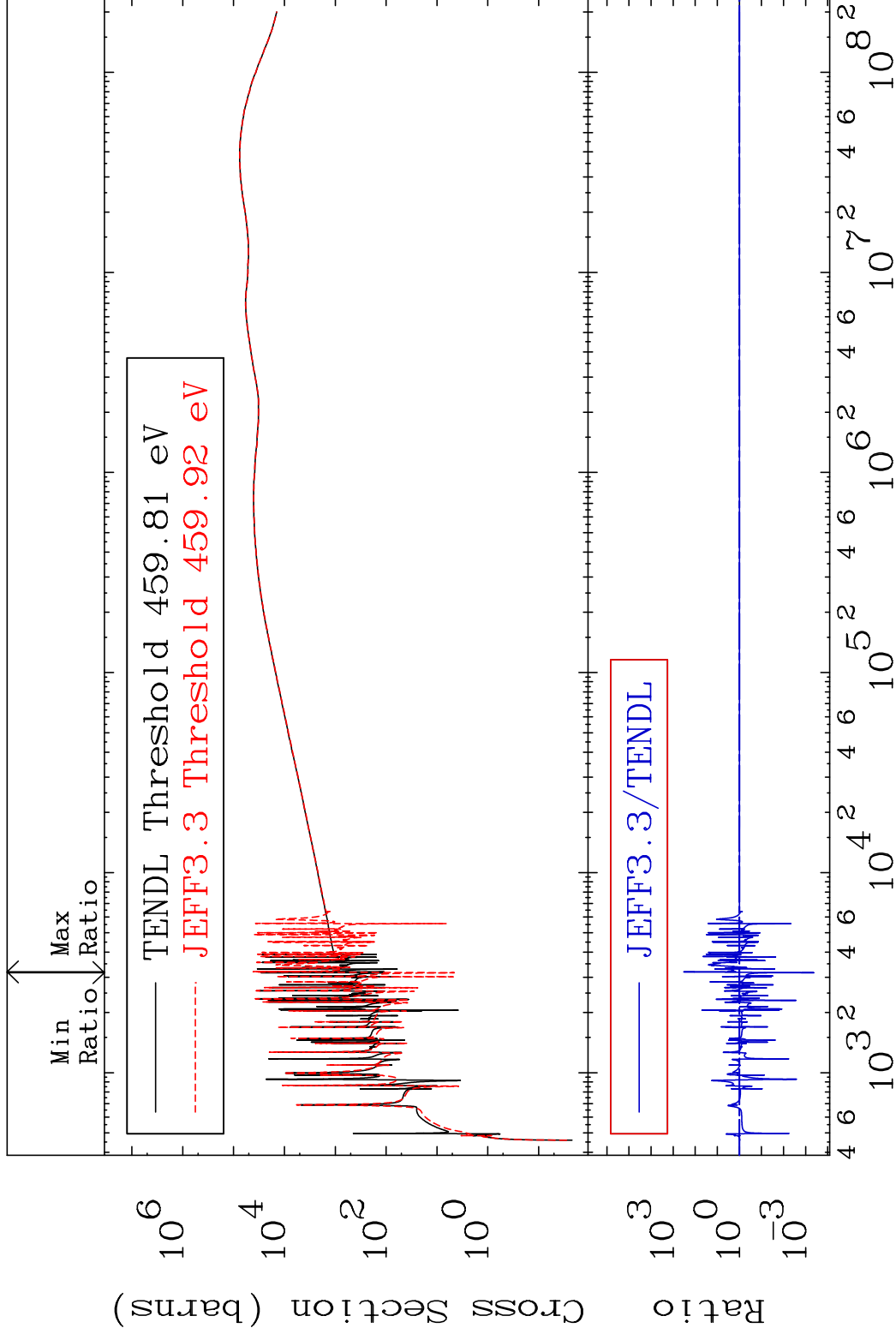


MAT 3434

Dpa elastic (mt2)

34-Se-77

Cross Section -99.96 To 9999. %

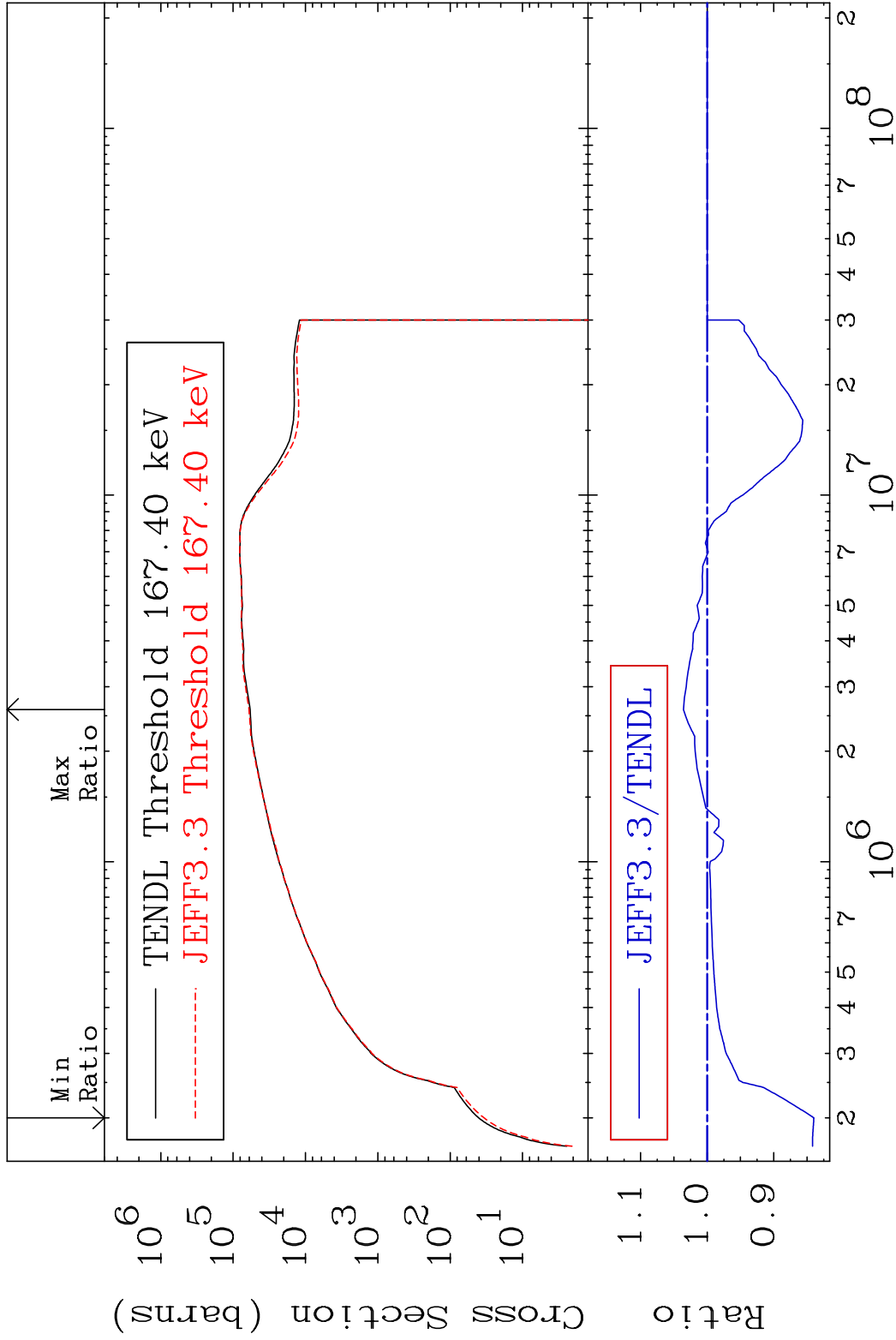


62

Incident Energy (eV)

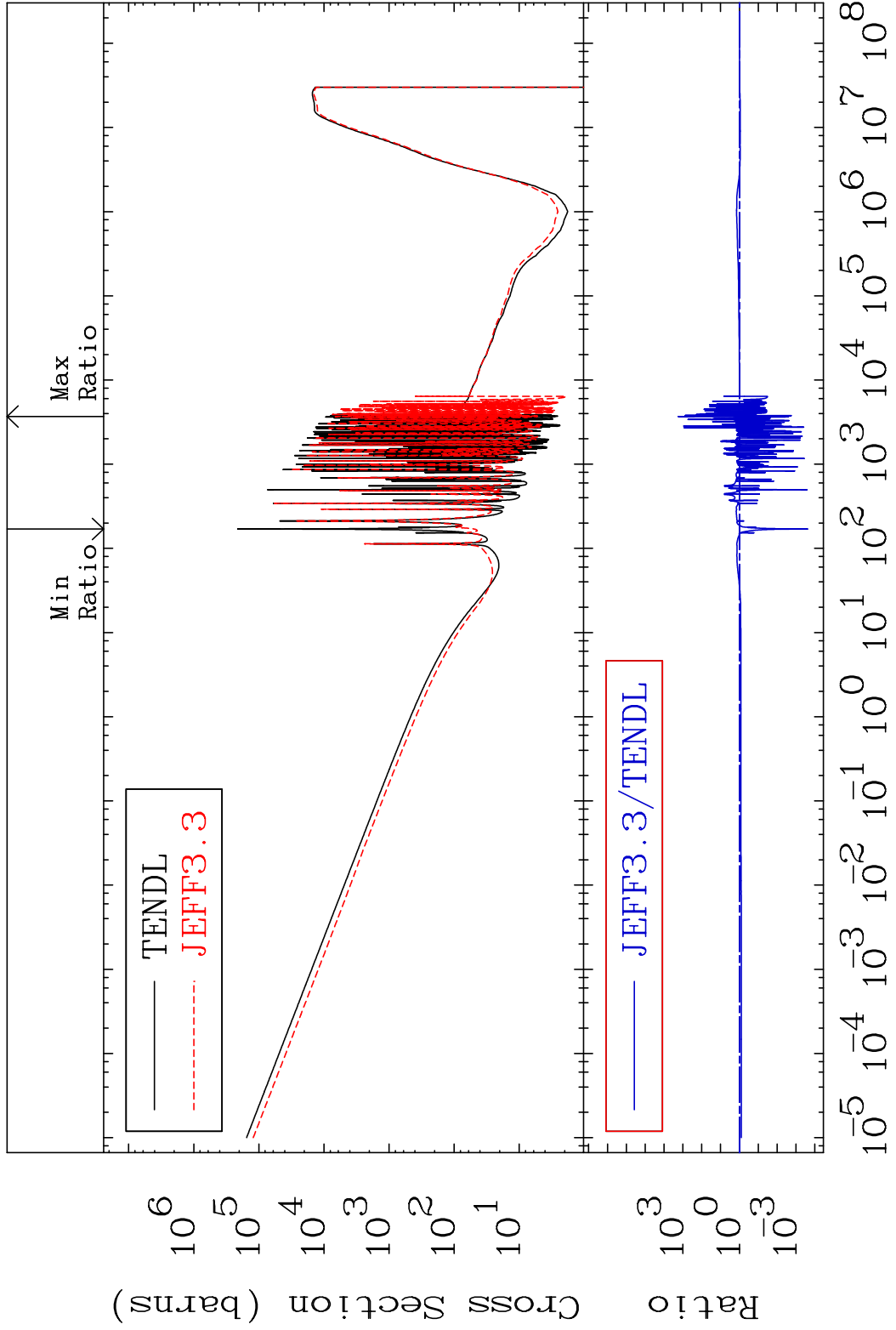
34-Se-77

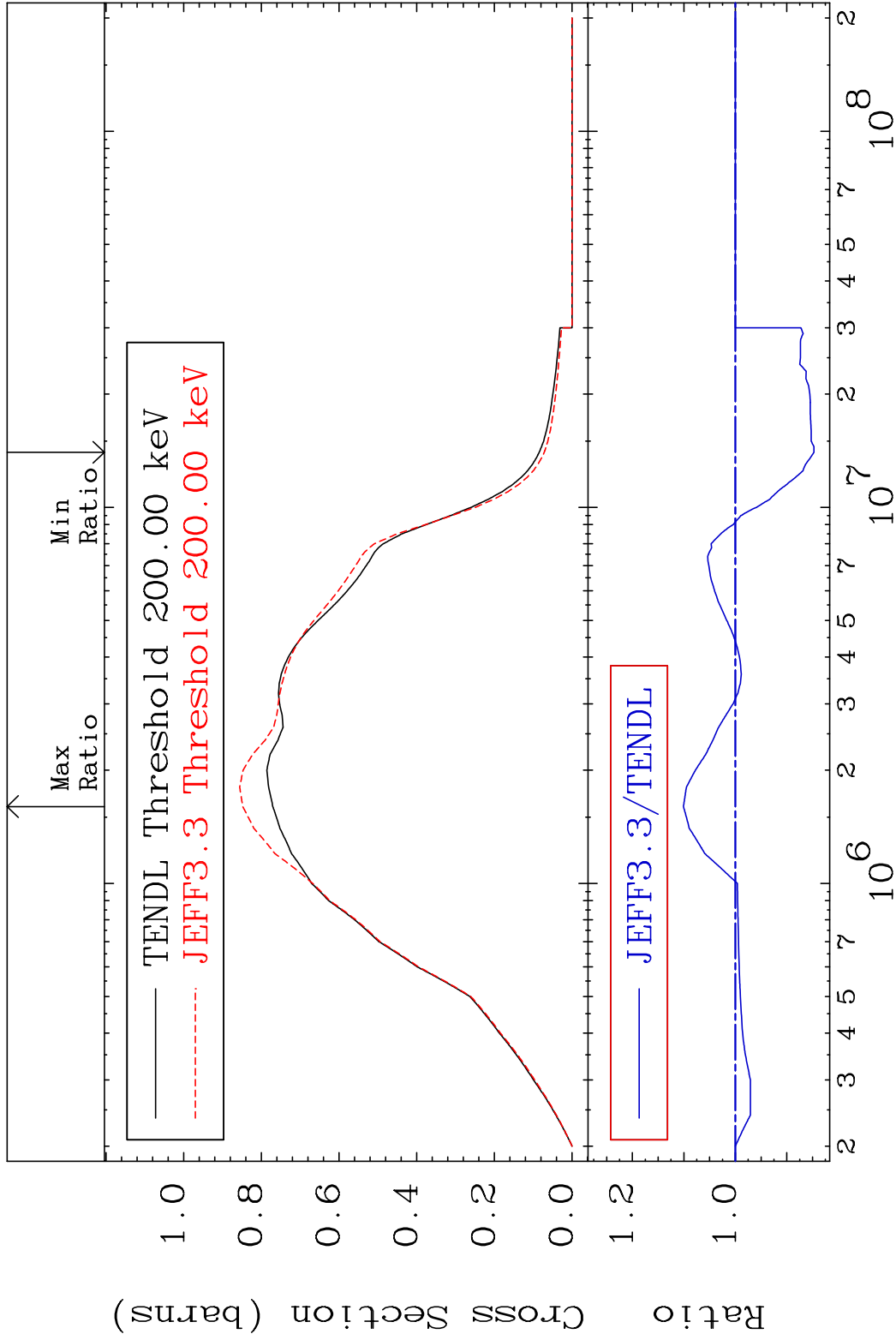
MAT 3434      Dpa inelastic (mt51-91)      <sup>34</sup>Se-77  
 Cross Section      -16.03 To 3.567 %

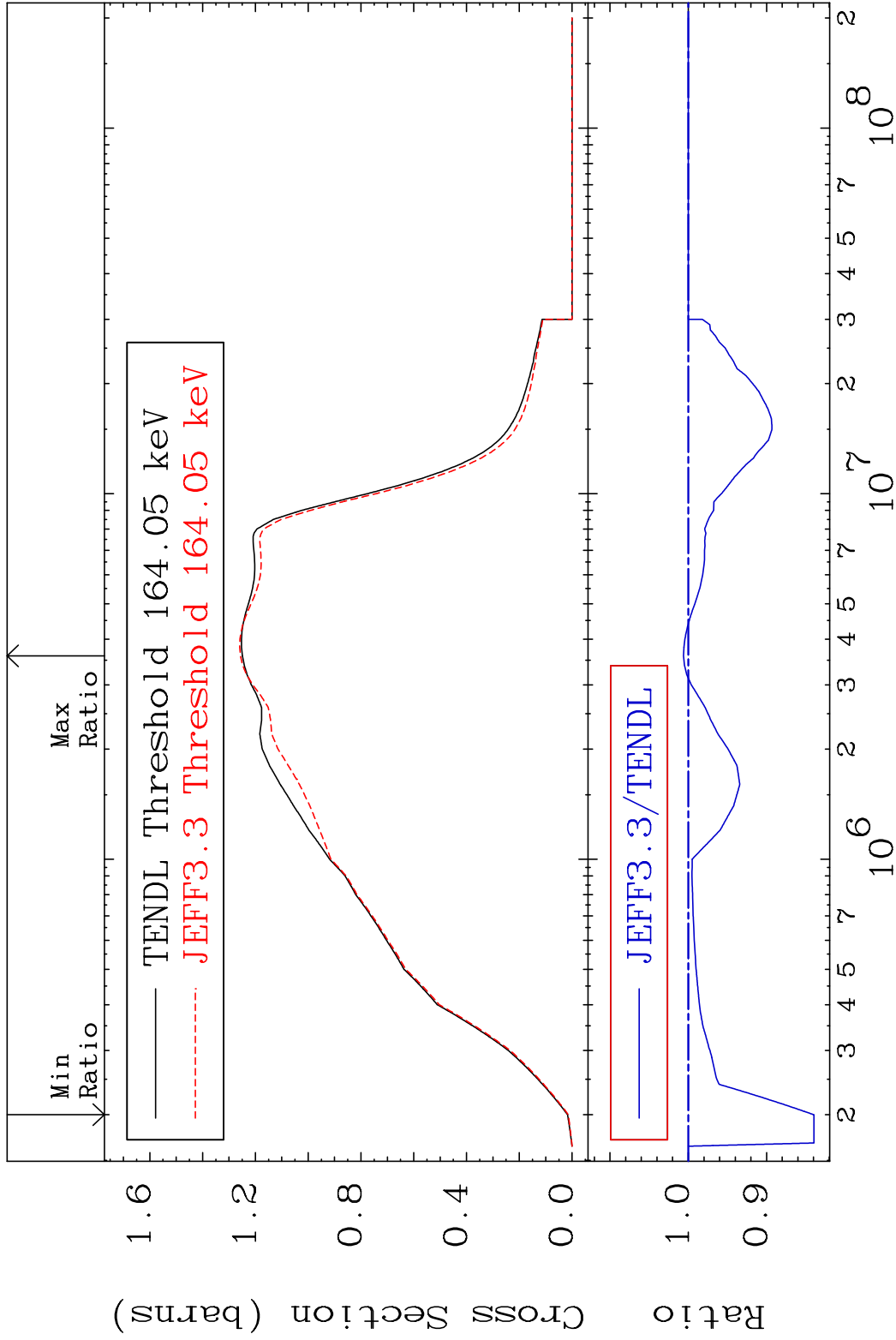




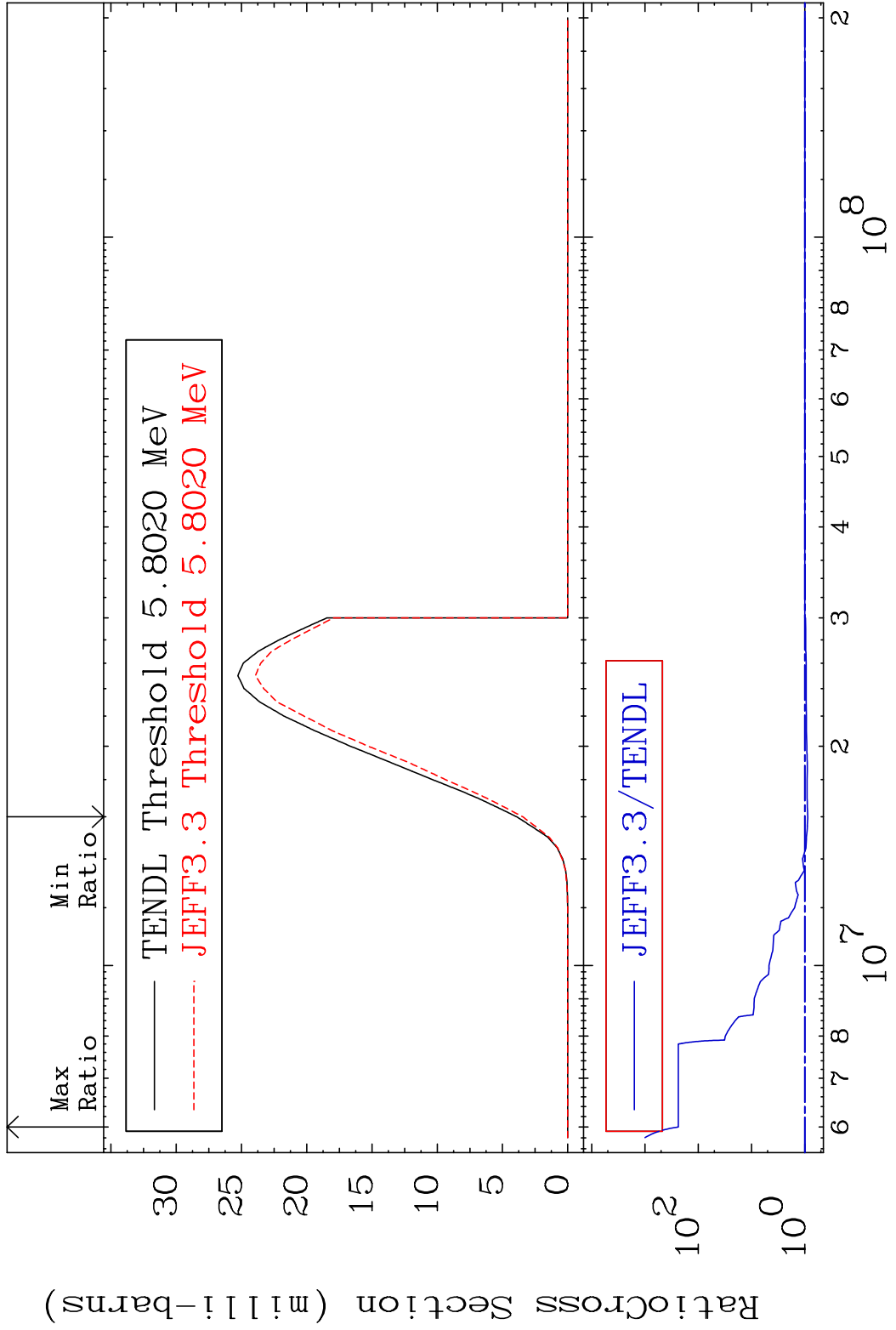
MAT 3434 Dpa disappearance (mt102 -120) 34-Se-77  
 Cross Section -99.98 To 9999. %





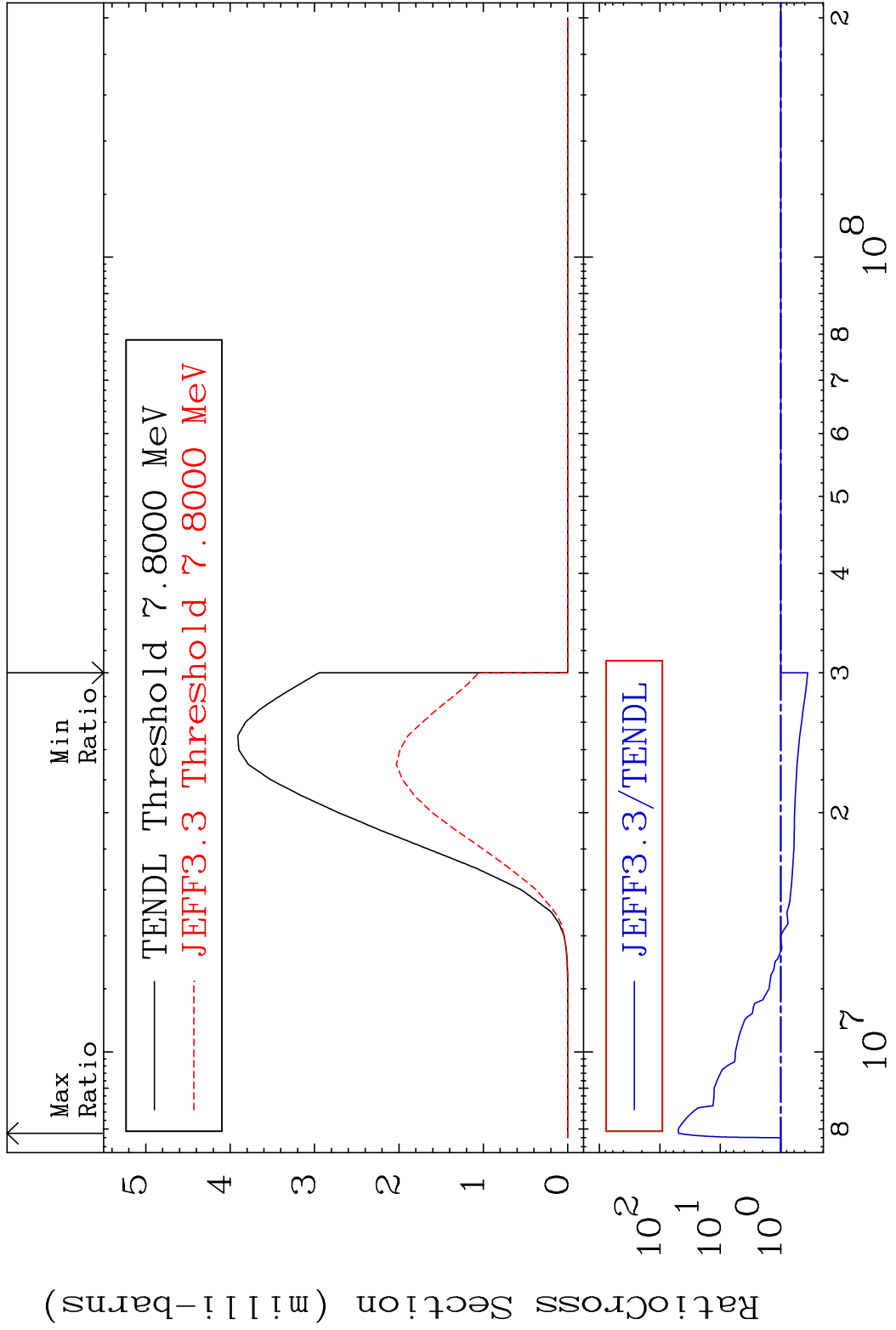


MAT 3434 (n, n')  $\alpha$ :32-Ge-73g 34-Se-77  
 Radionuclide Production Cross Section 1Sec 1E+02 d 9999. %

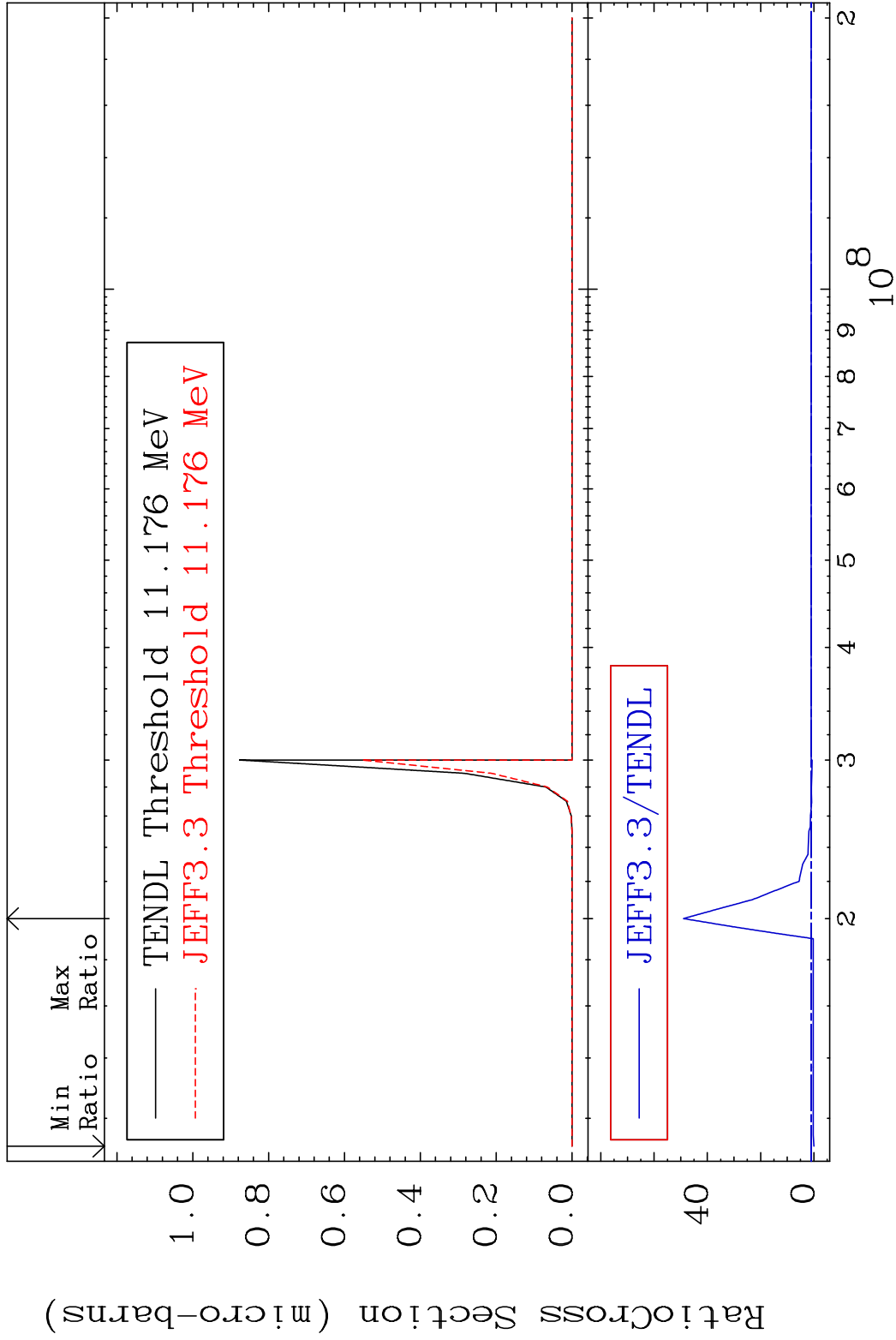


67 Incident Energy (eV) 34-Se-77

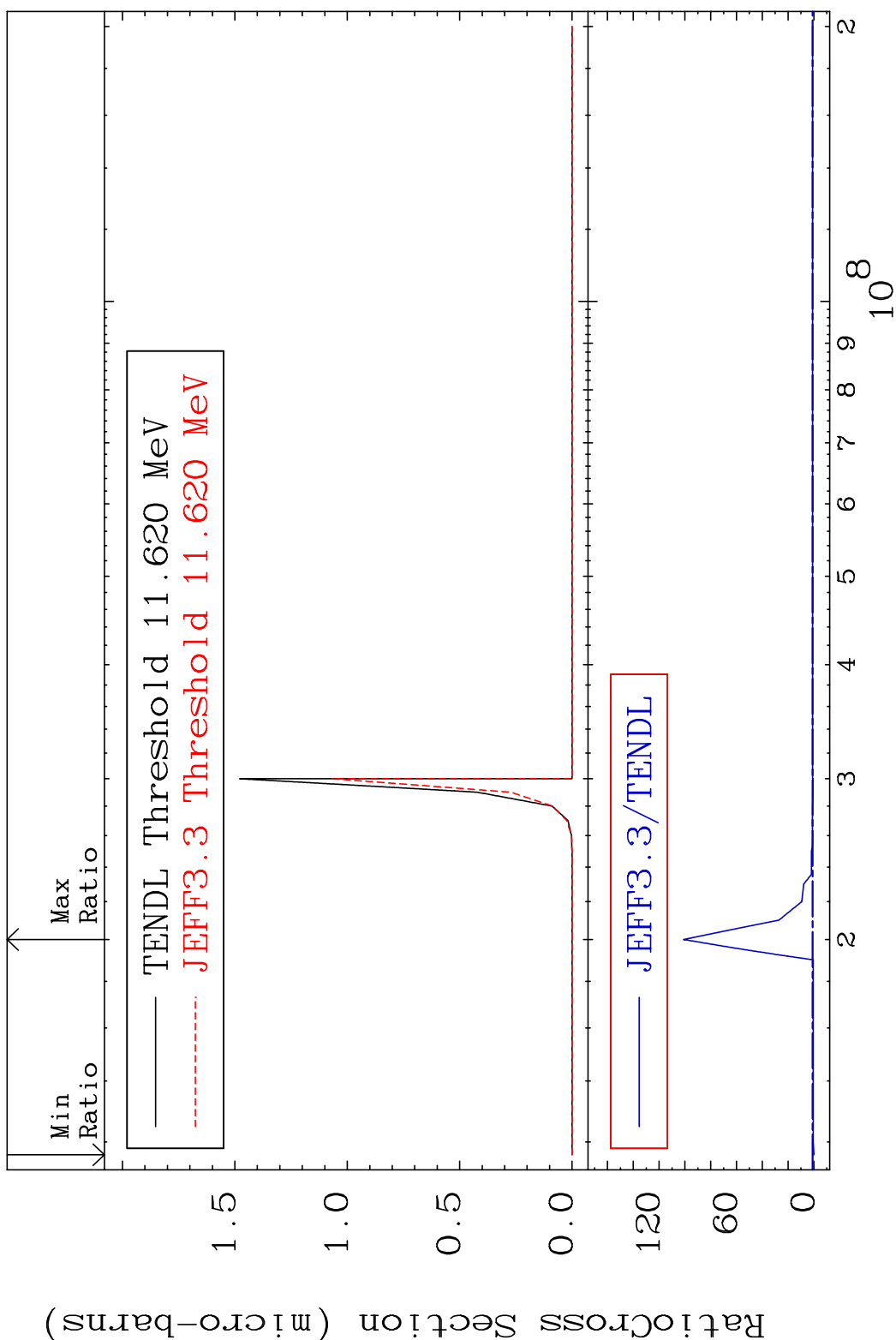
MAT 3434 (n, n')  $\alpha$ :32-Ge-73m2 34-Se-77  
 Radionuclide Production Cross Section 68.24 dtd 4865. %



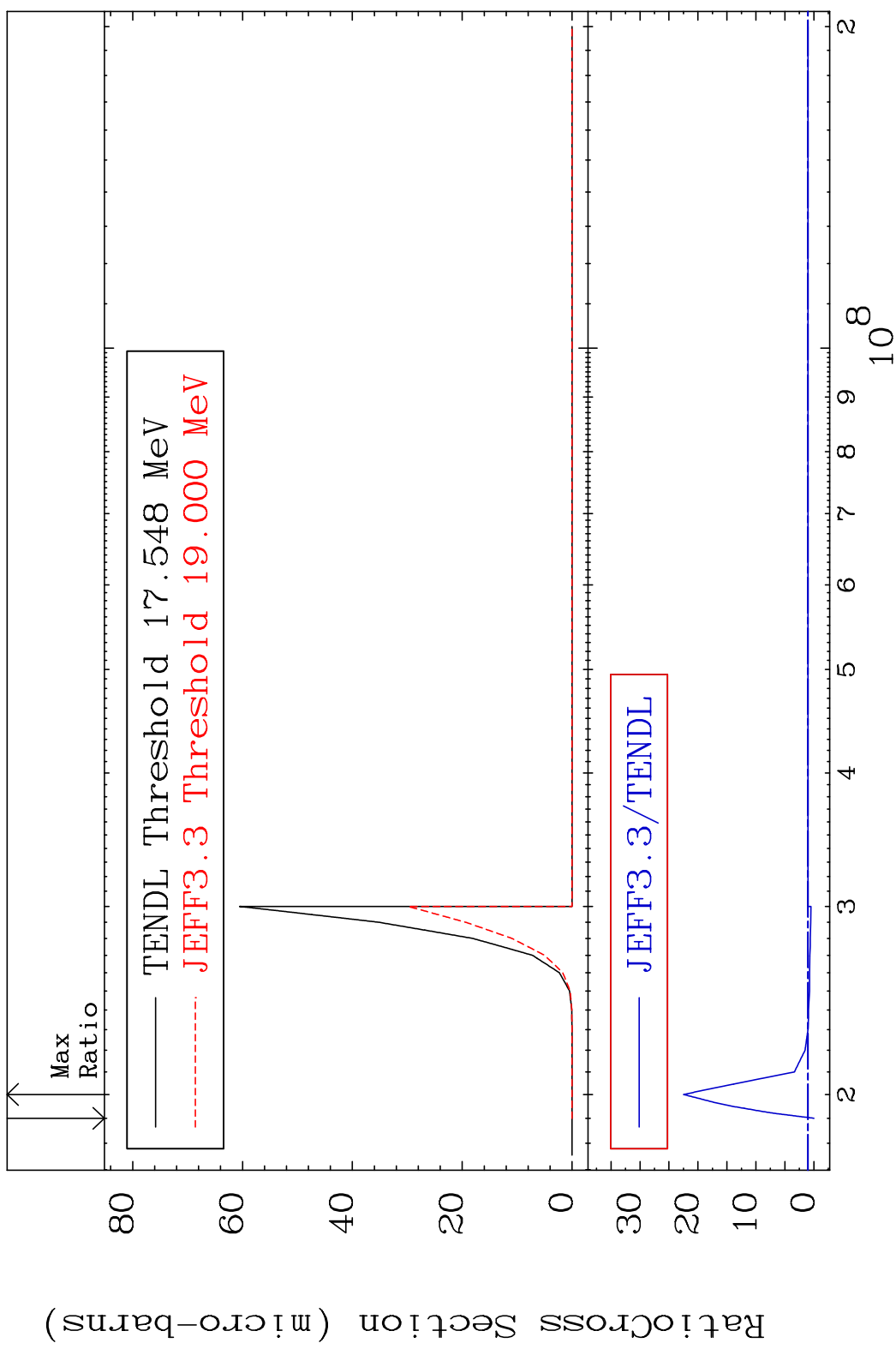
68 Incident Energy (eV) 34-Se-77



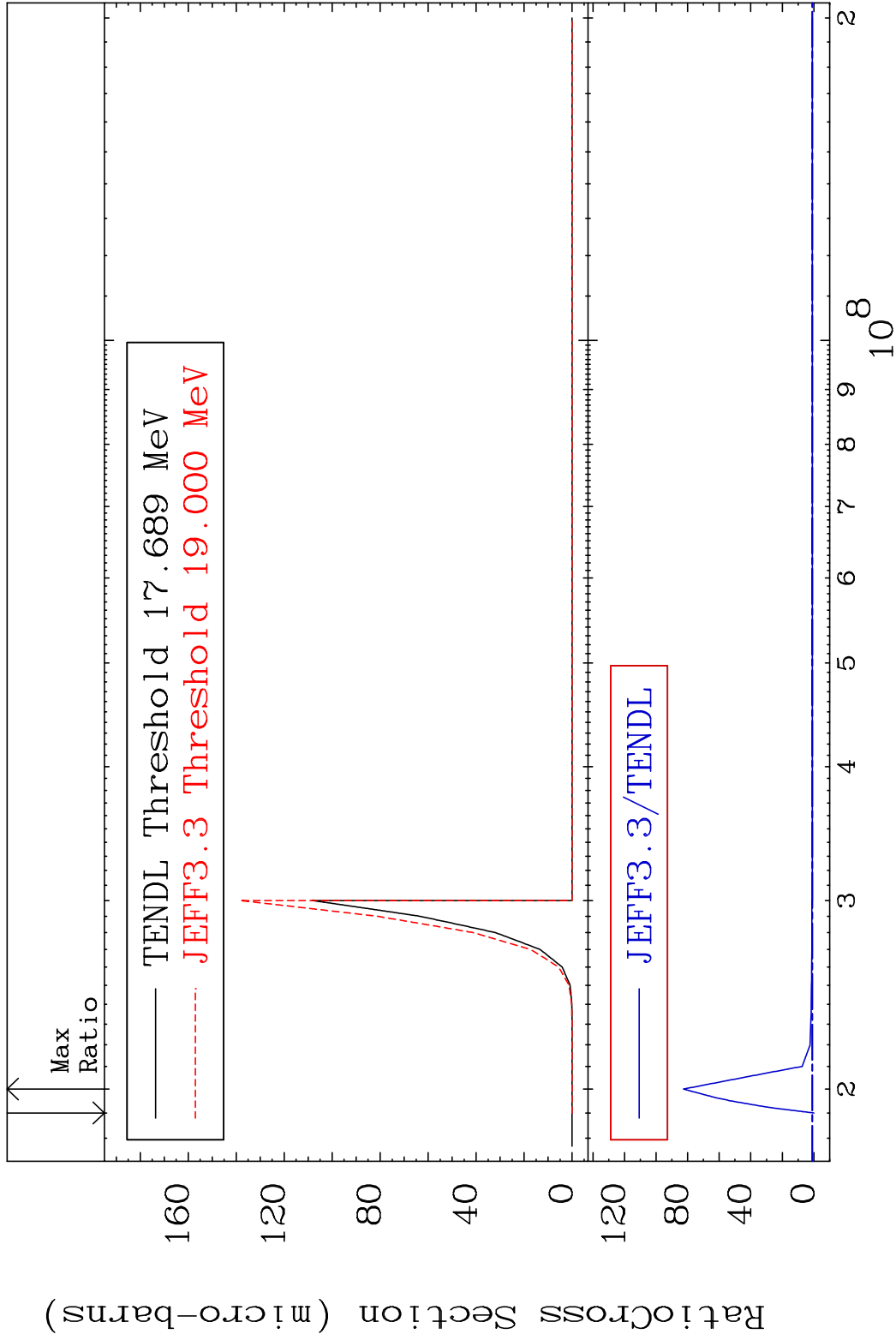
MAT 3434 (n, n')  $^{24}\text{Mg}$ - $^{30}\text{Zn}$ -69m1  $^{34}\text{Se}$ -77  
 Radionuclide Production Cross Section 180000 dtd 9999. %

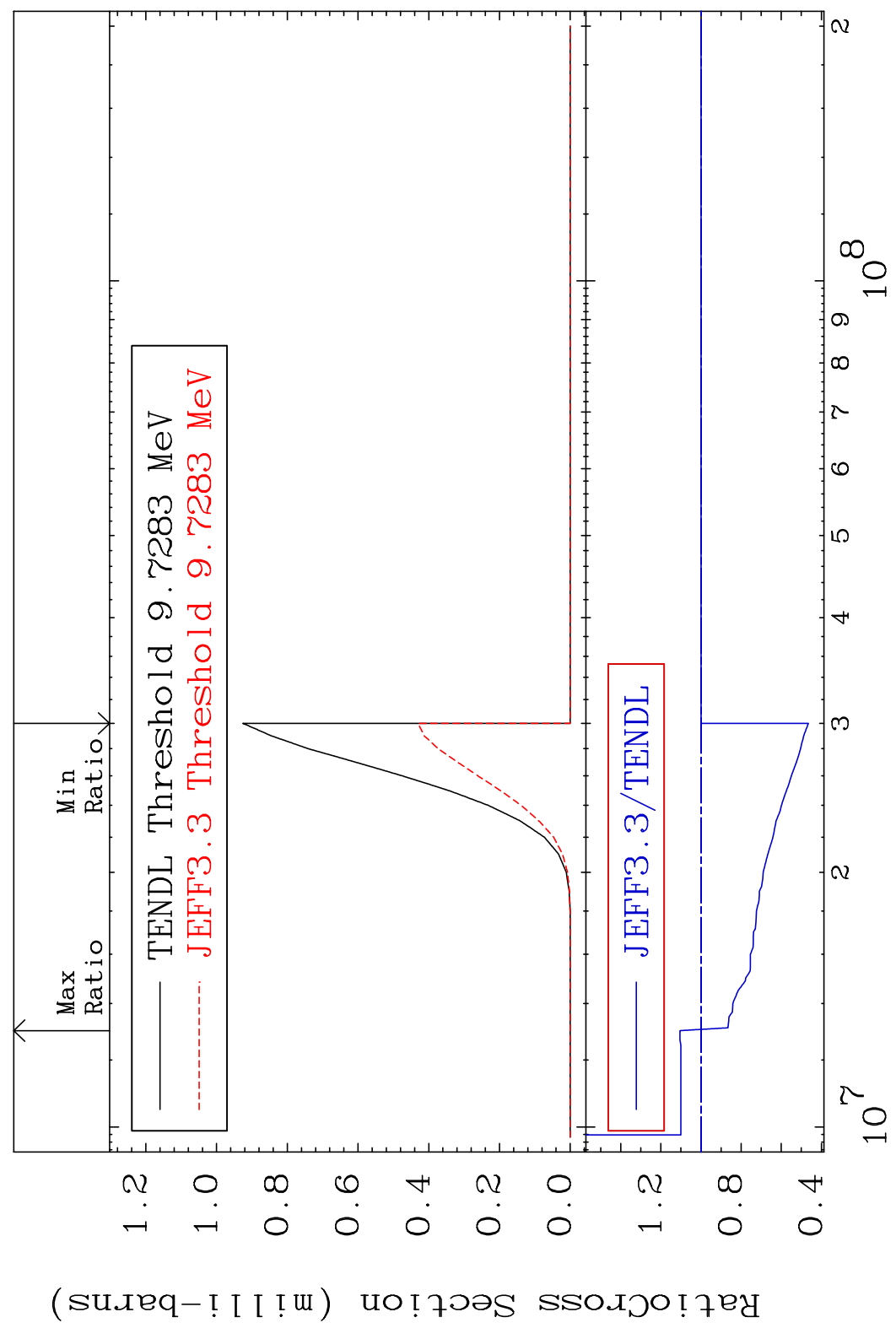


70 Incident Energy (eV)  $^{34}\text{Se}$ -77

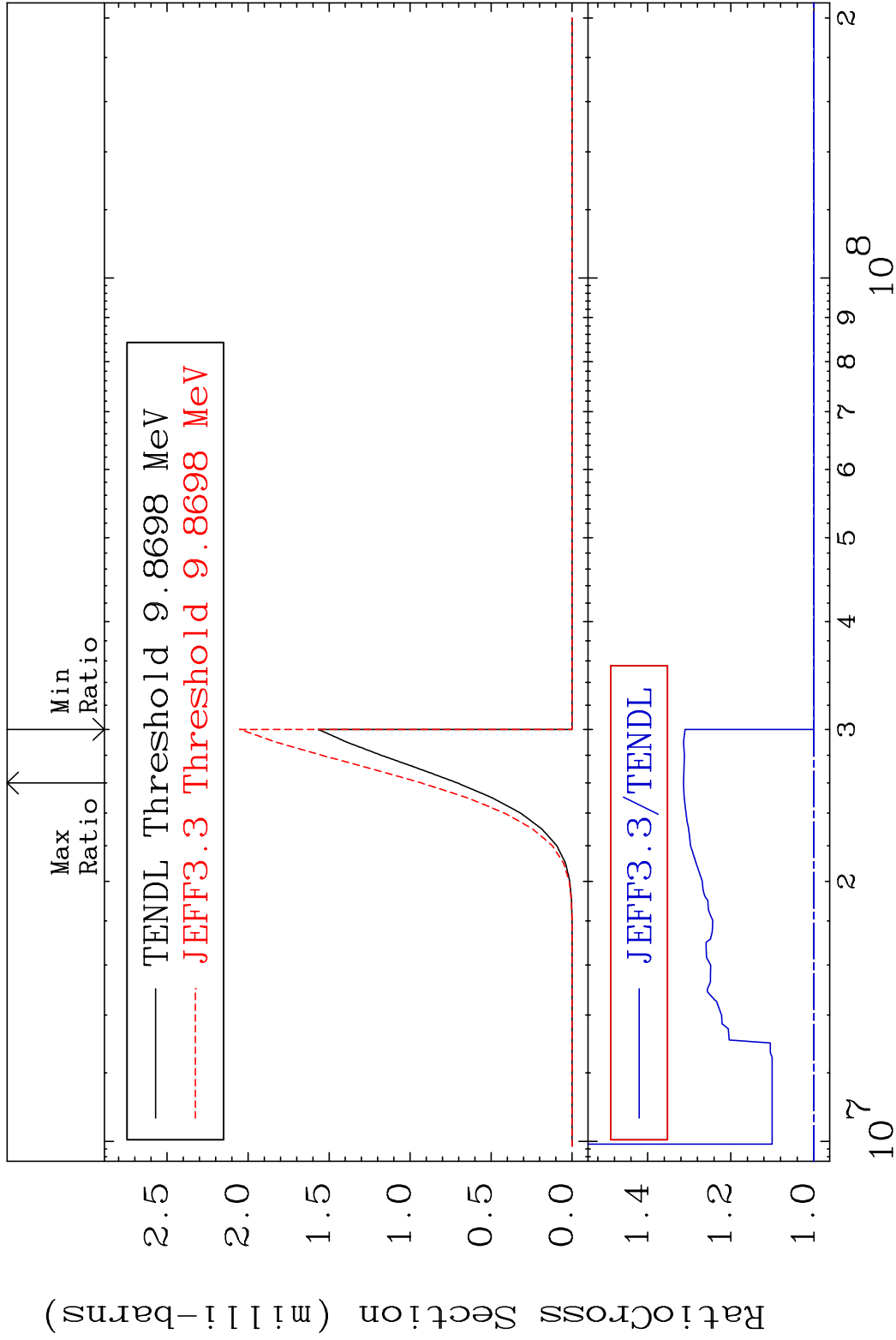




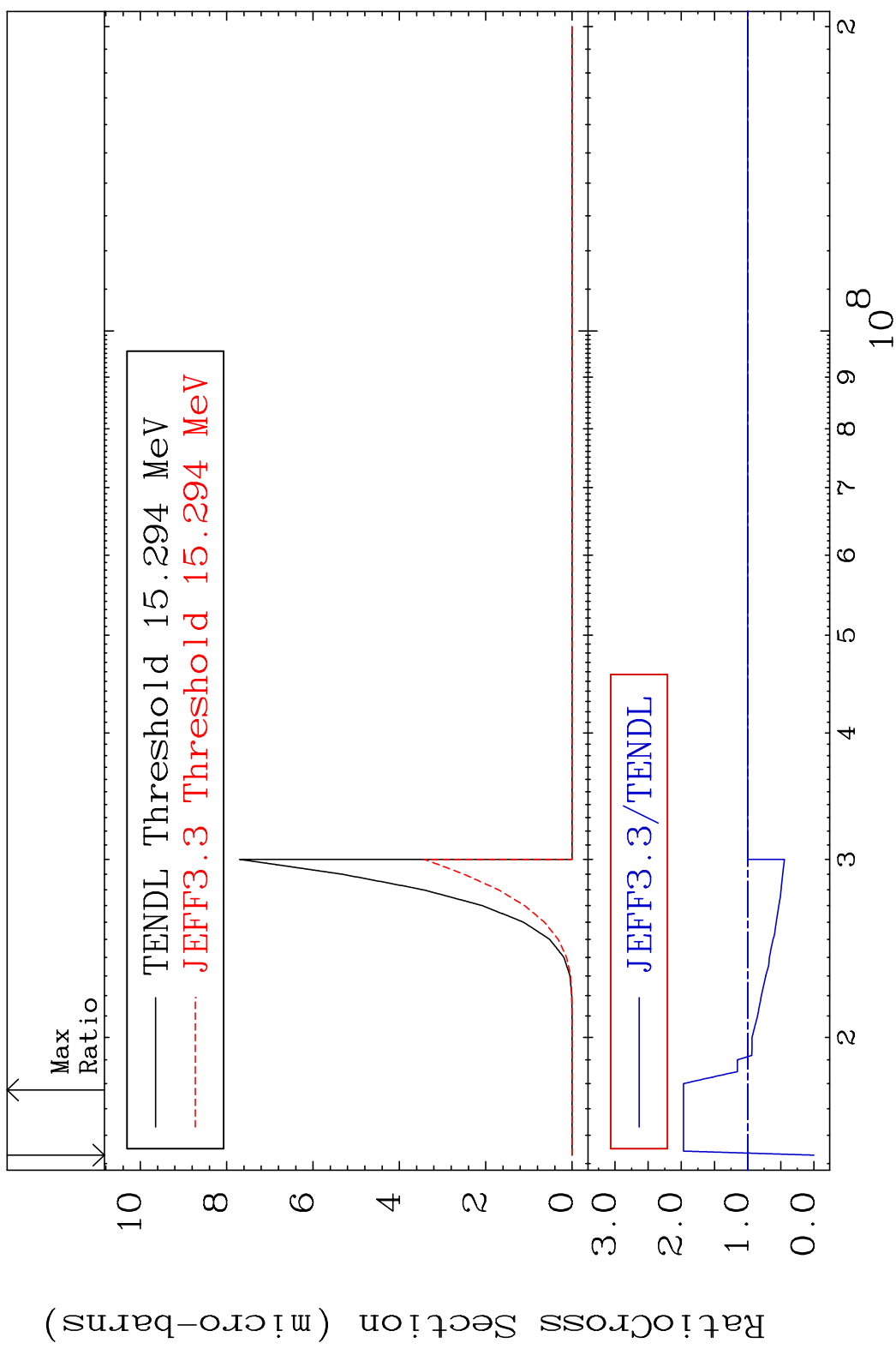




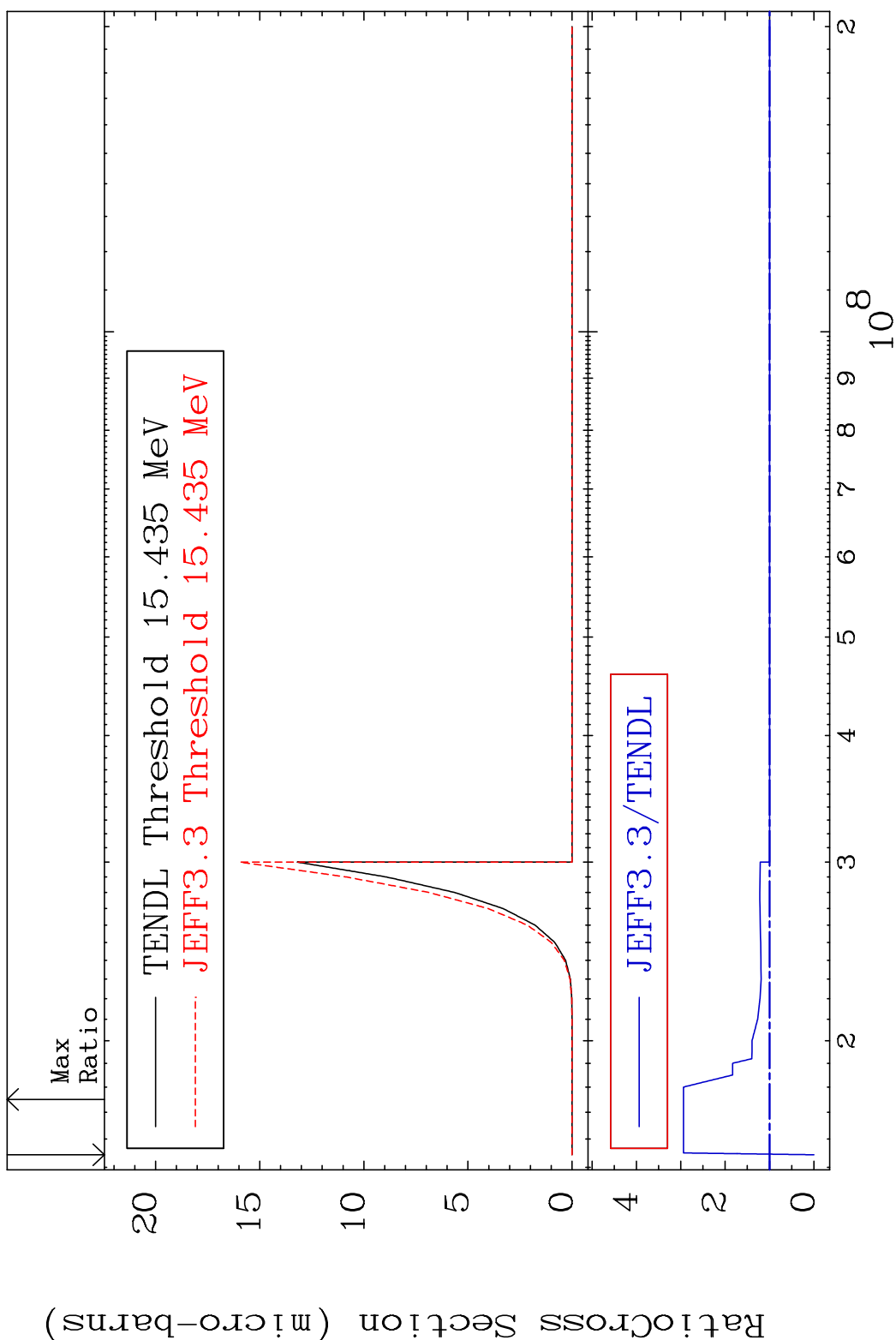
MAT 3434 (n, He-3) : 32-Ge-75m2 34-Se-77  
 Radionuclide Production Cross Section 31.39 %



74 Incident Energy (eV) 34-Se-77



MAT 3434 (n, p) d:32-Ge-75m2 34-Se-77  
 Radionuclide Production Cross Section 194.0 %



76 Incident Energy (eV) 34-Se-77