

Program Complot  
(Version 2018-1)

by

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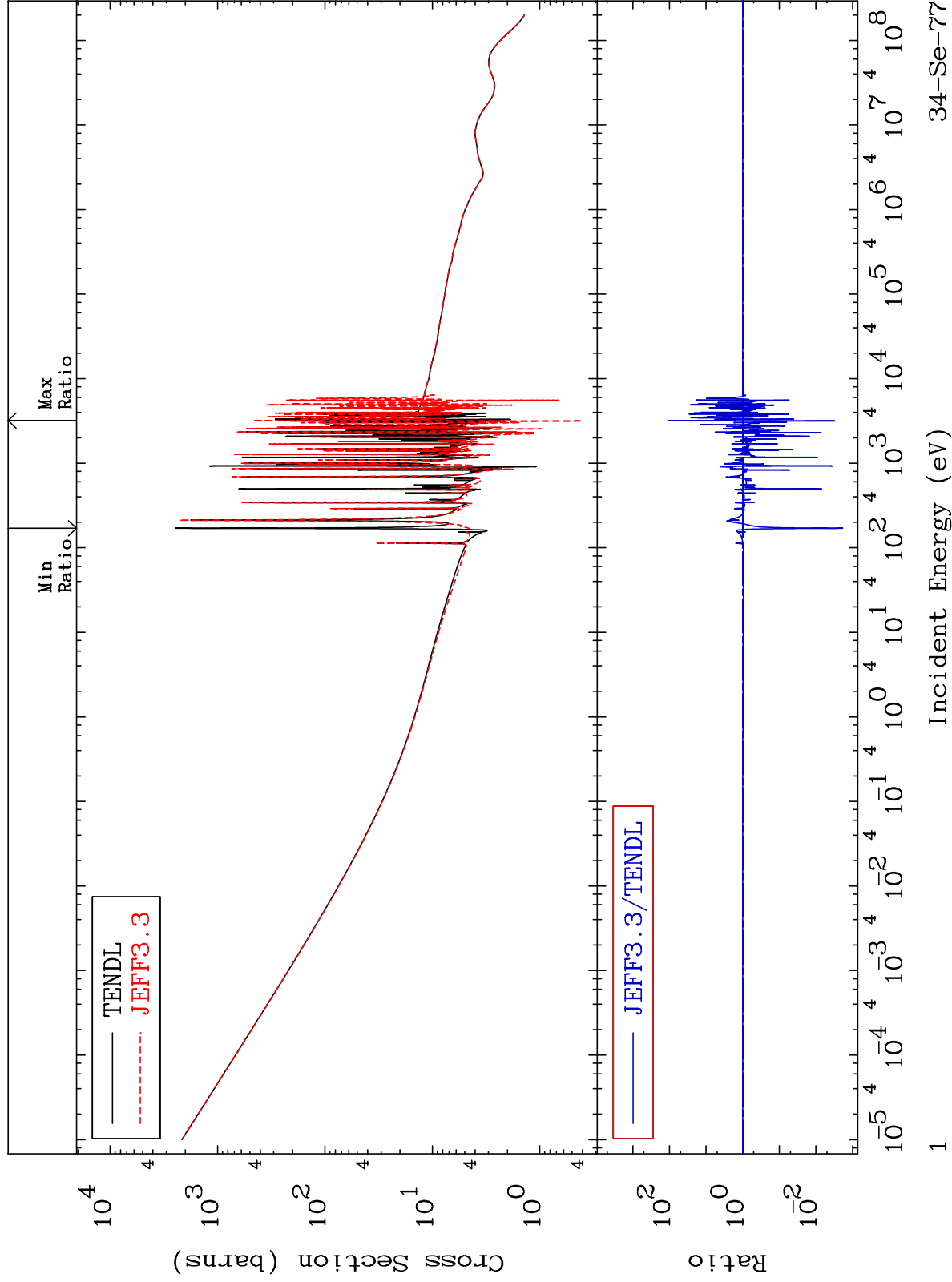
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 3434

Total  
Cross Section

34-Se-77  
-99.82 To 9999. %

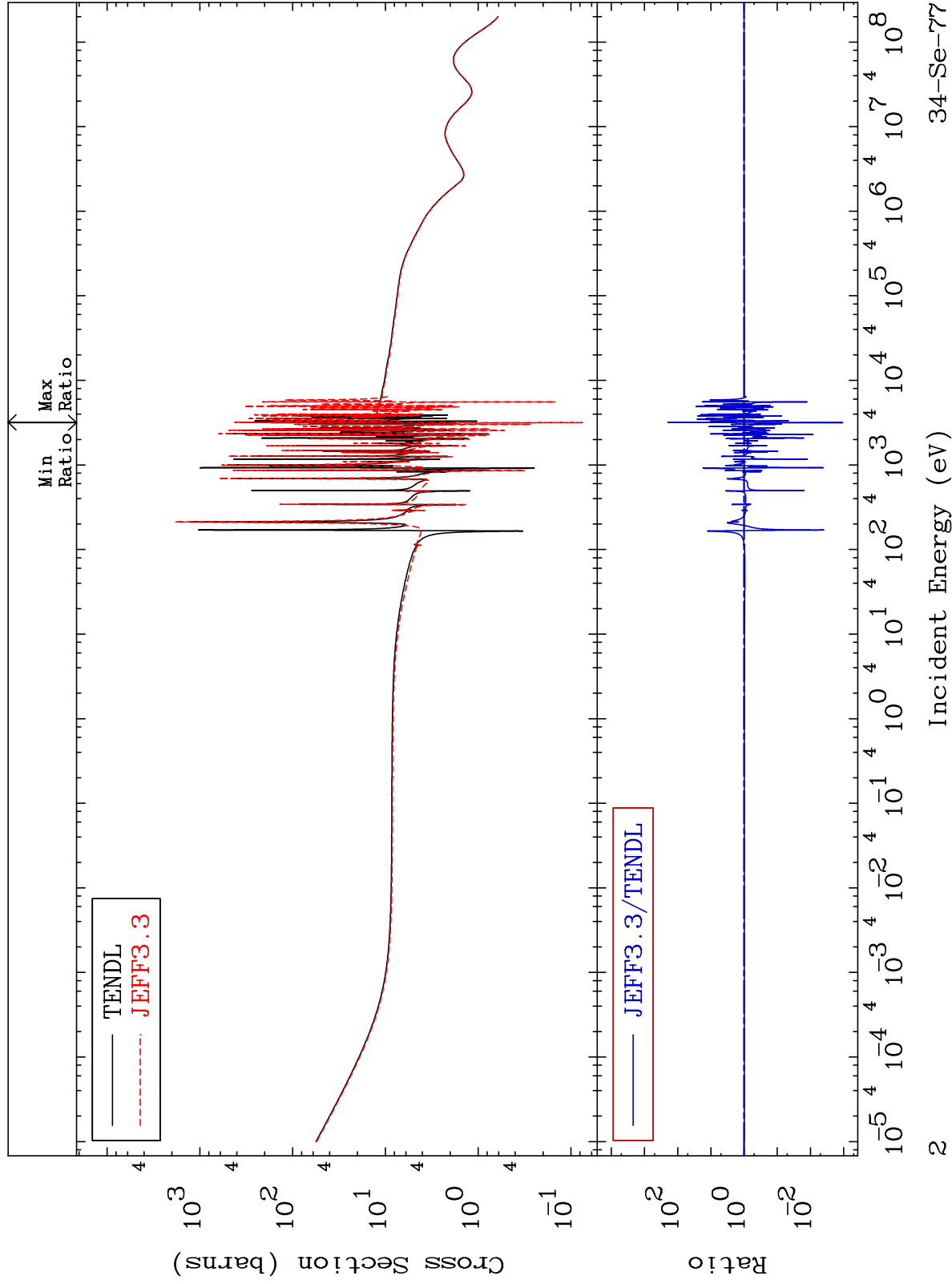


34-Se-77

MAT 3434

Elastic  
Cross Section

34-Se-77  
-99.89 To 9999. %

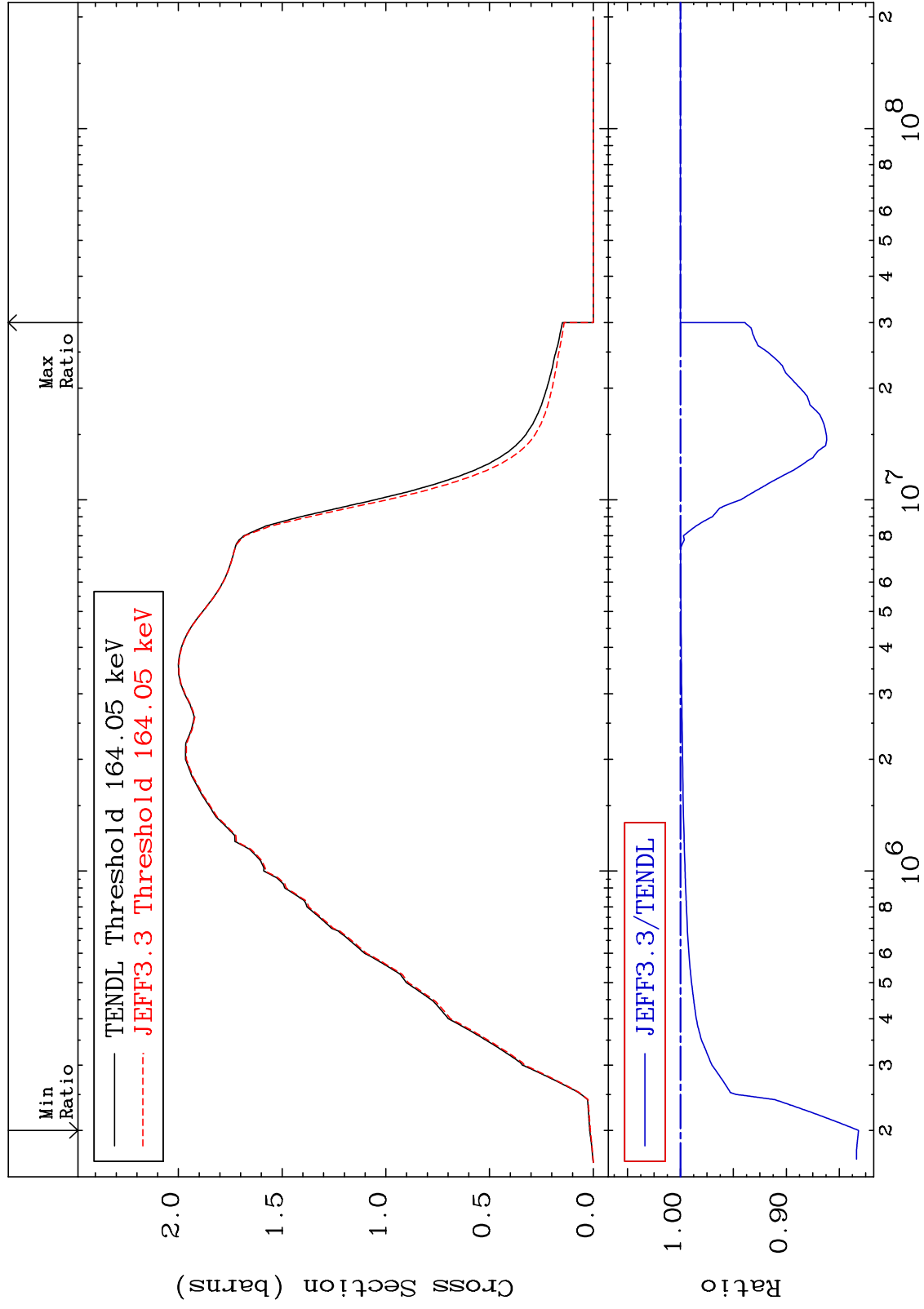


34-Se-77

MAT 3434

Inelastic  
Cross Section

34-Se-77  
-16.82 To 0.000 %



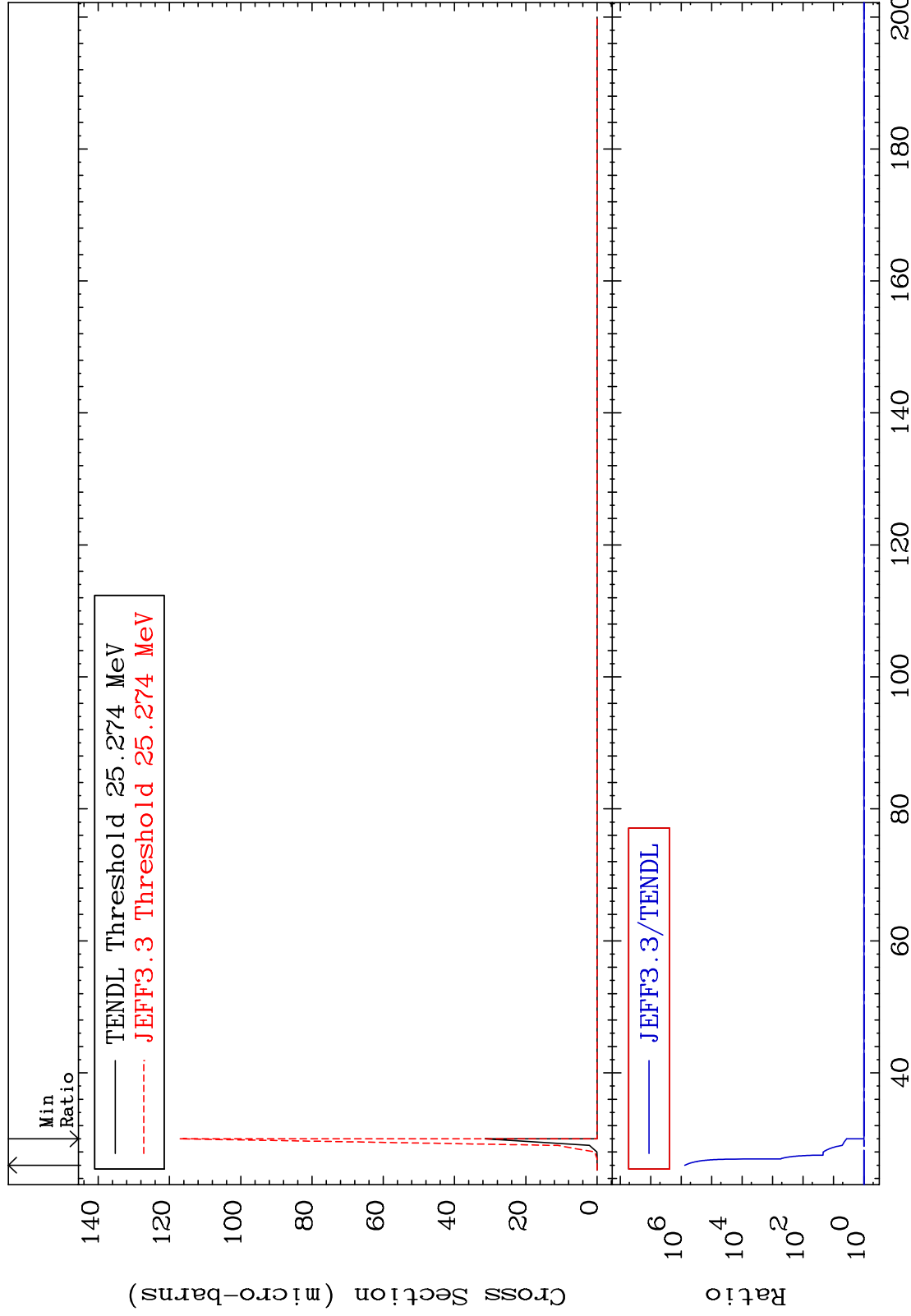
MAT 3434

(n,2n) d

<sup>34</sup>Se-77

Cross Section

0.000 To 9999. %



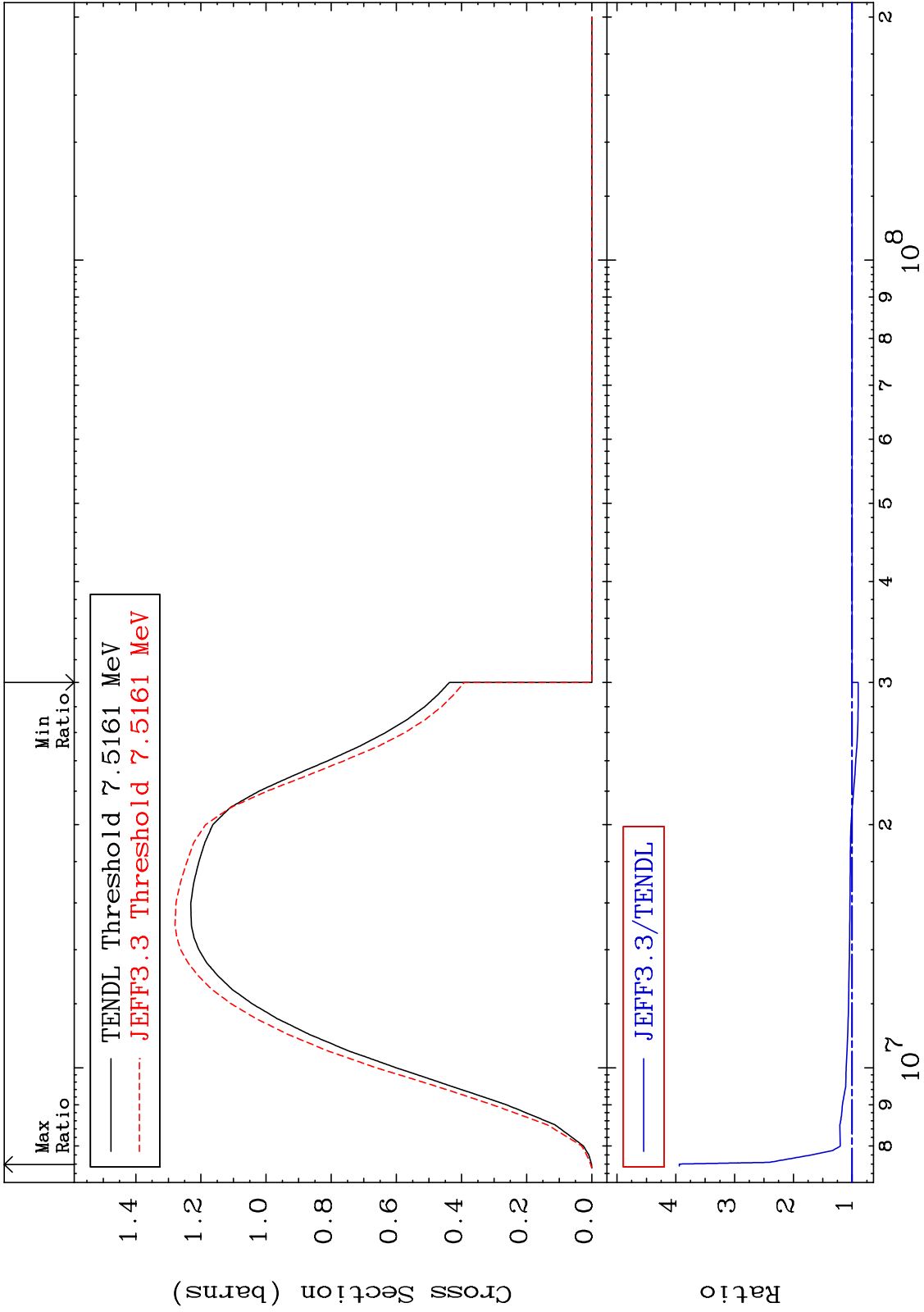
MAT 3434

(n,2n)

<sup>34</sup>Se-77

Cross Section

-10.38 To 293.9 %



5

Incident Energy (eV)

<sup>34</sup>Se-77

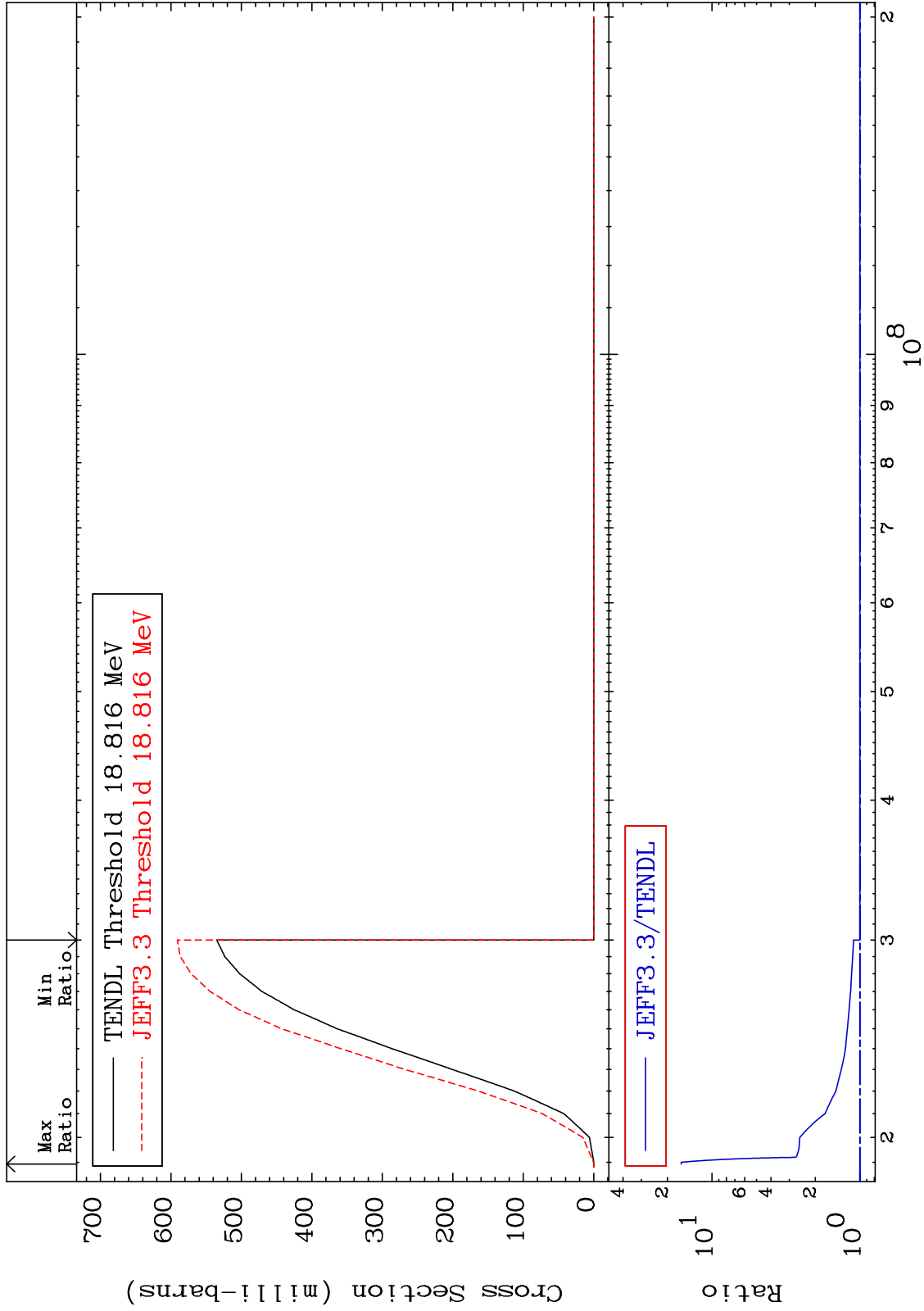
MAT 3434

(n,3n)

<sup>34</sup>Se-77

Cross Section

0.000 To 1515. %



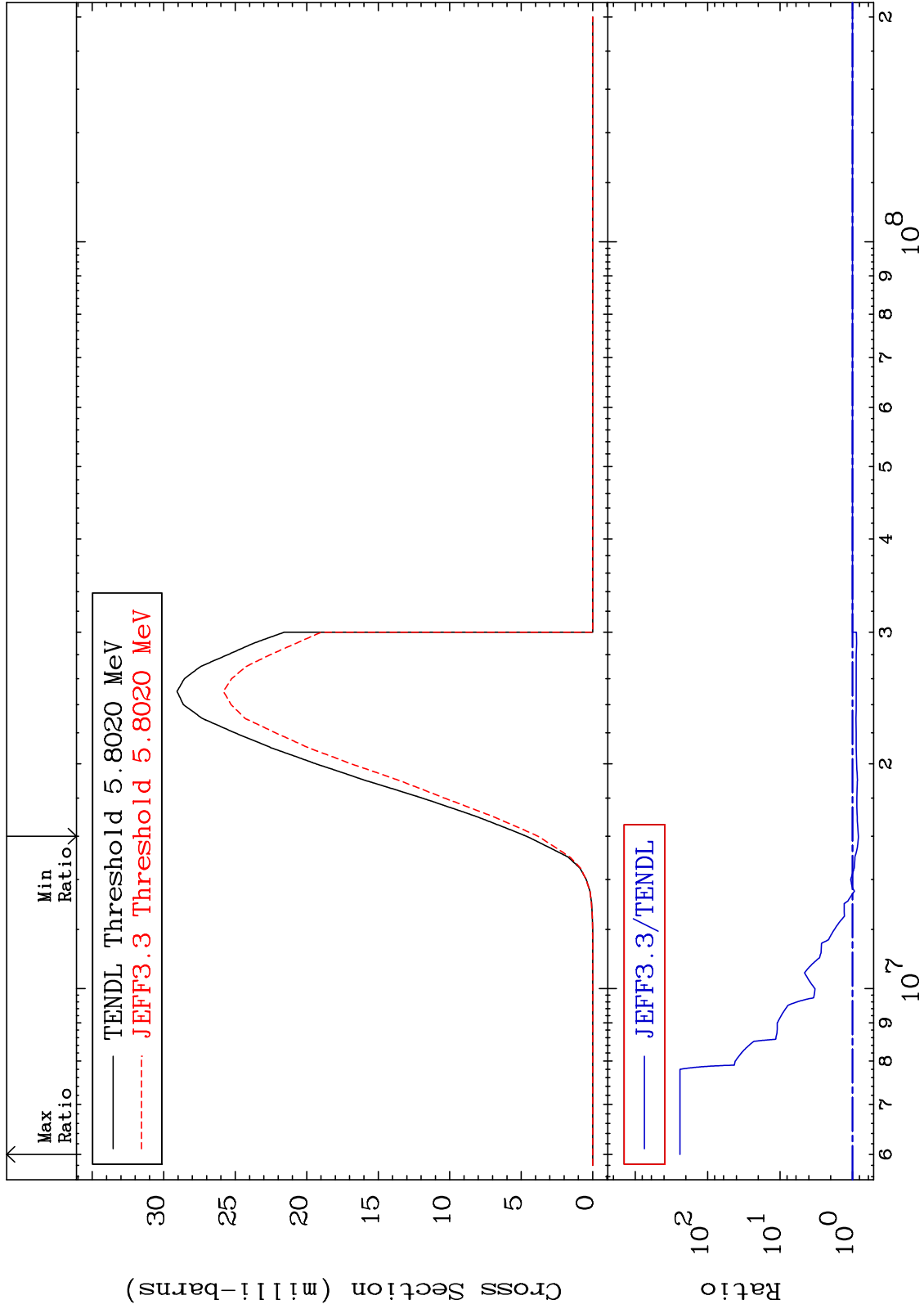
MAT 3434

(n, n')  $\alpha$

<sup>34</sup>Se-77

Cross Section

-17.48 To 9999. %



7

Incident Energy (eV)

<sup>34</sup>Se-77



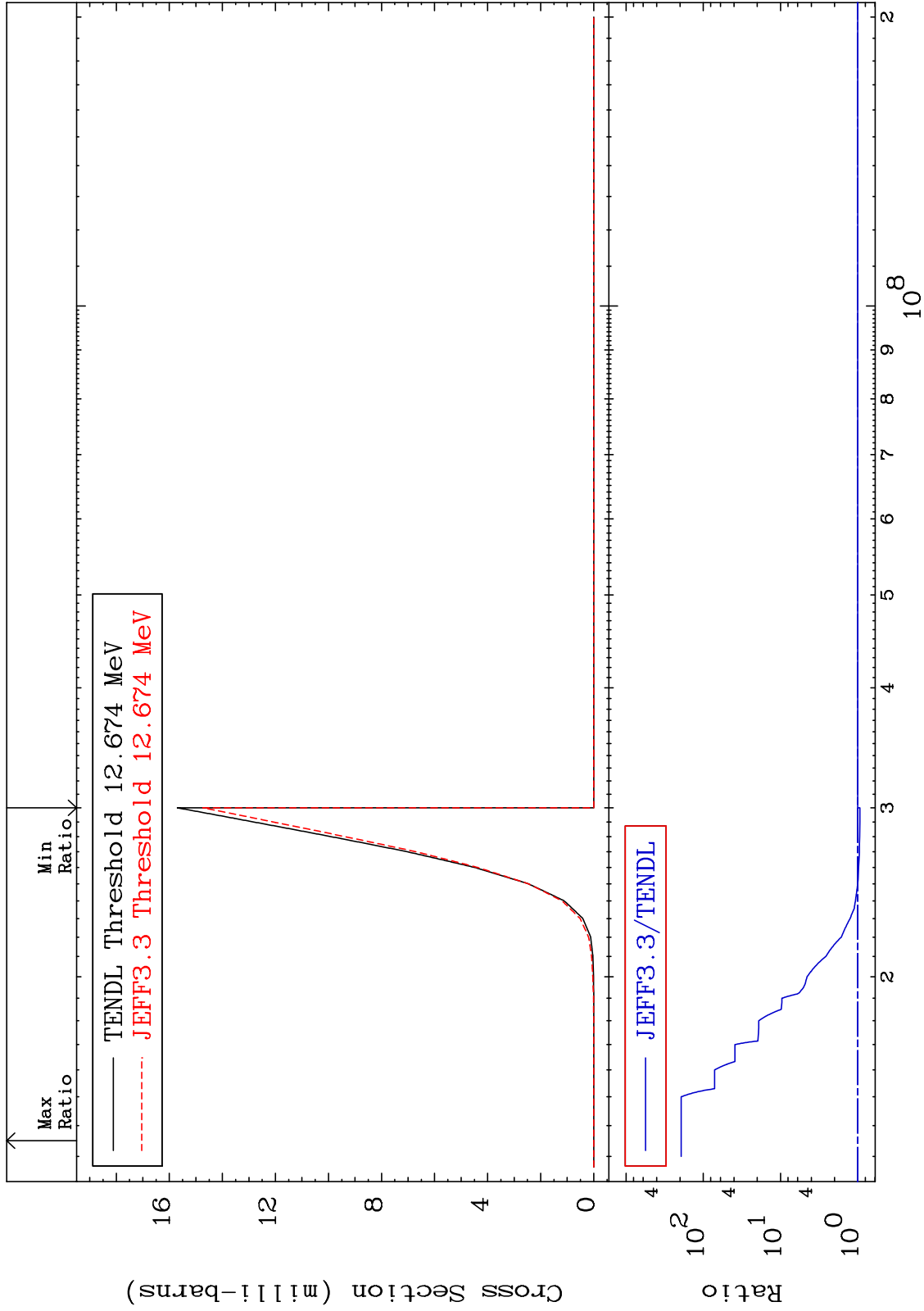
MAT 3434

(n,2n)  $\alpha$

<sup>34</sup>Se-77

Cross Section

-6.173 To 9999. %



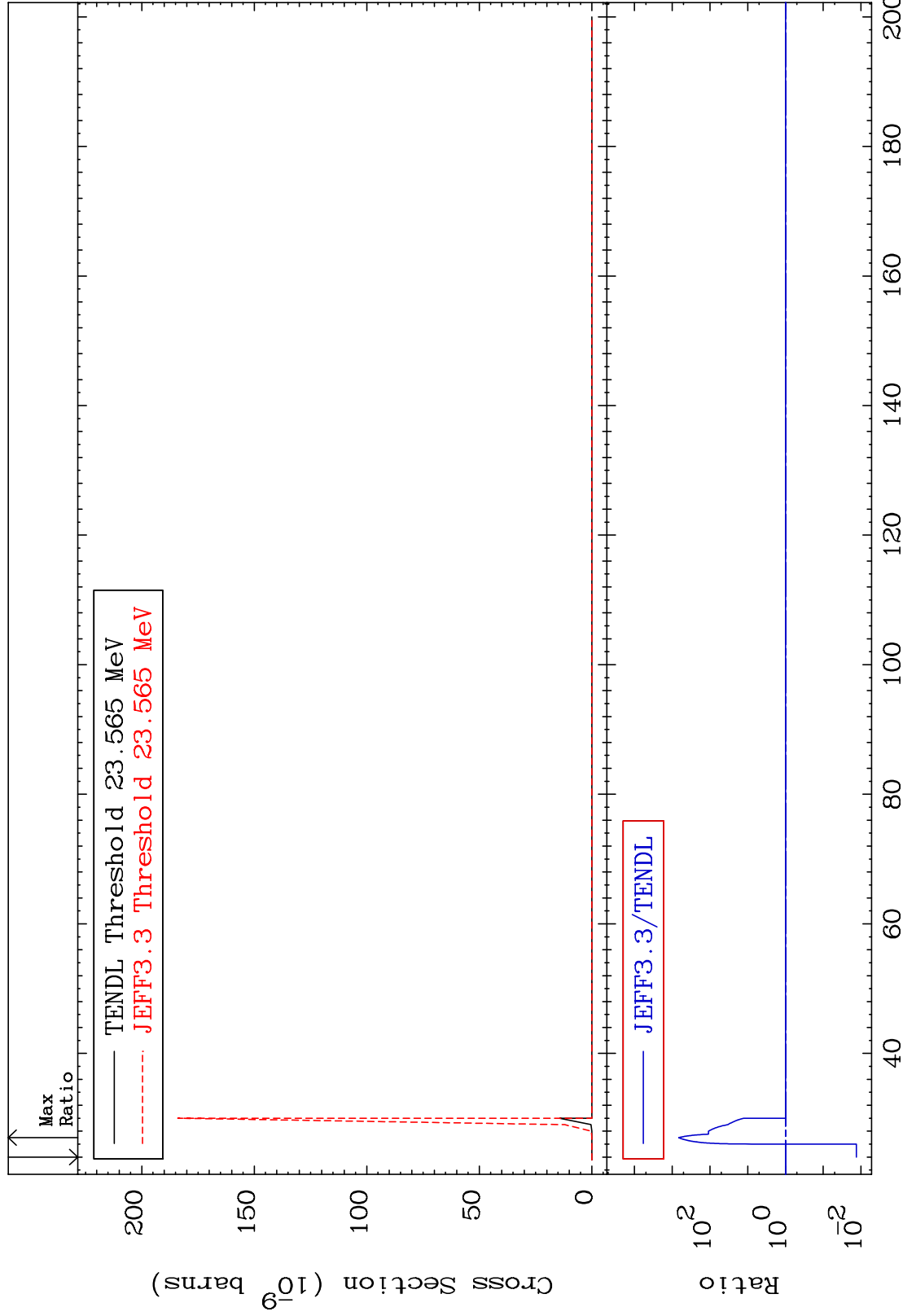
MAT 3434

(n,3n)  $\alpha$

<sup>34</sup>Se-77

Cross Section

-98.68 To 9999. %



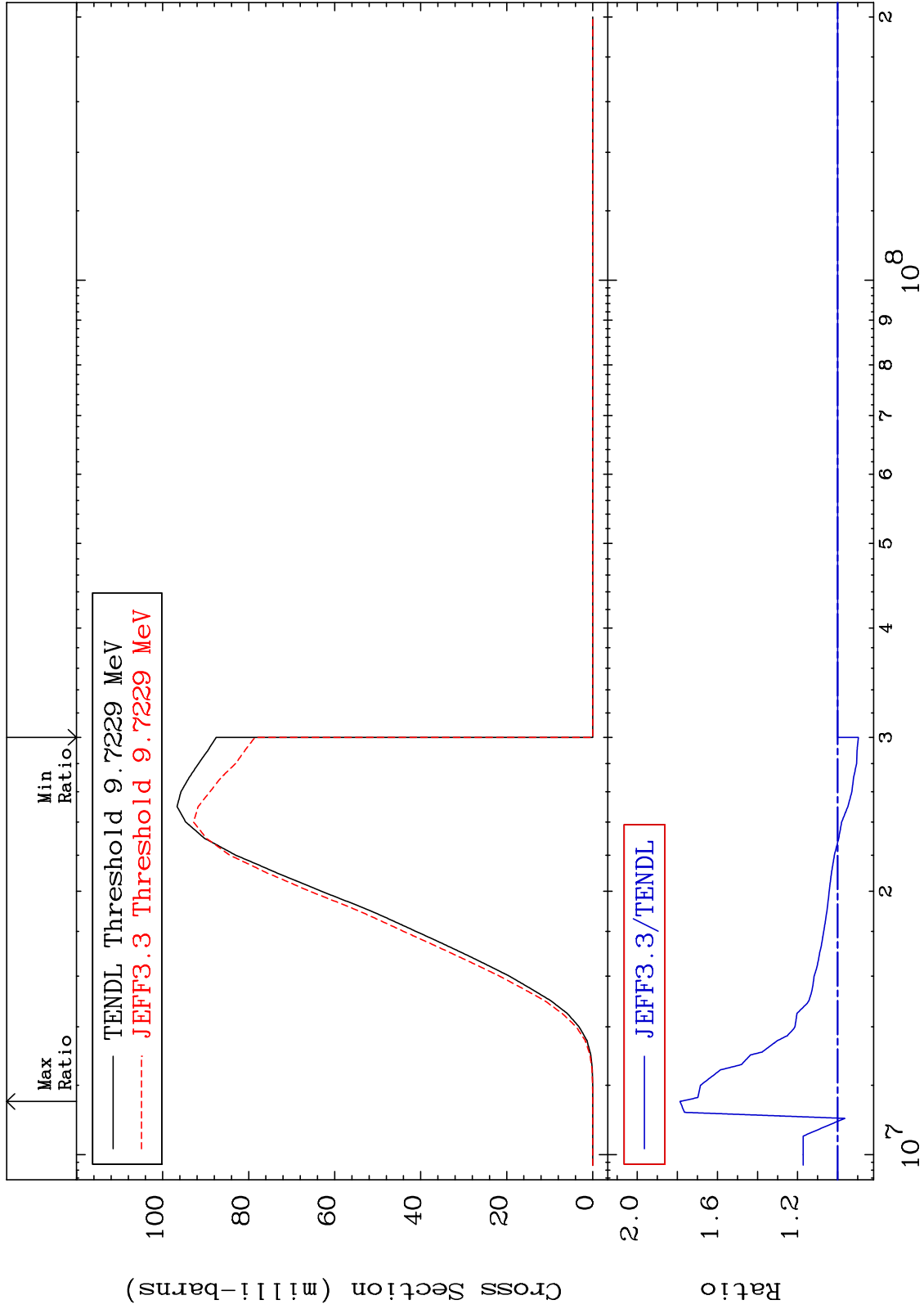
MAT 3434

(n,n') p

<sup>34</sup>Se-77

Cross Section

-10.31 To 78.63 %



<sup>34</sup>Se-77

Incident Energy (eV)

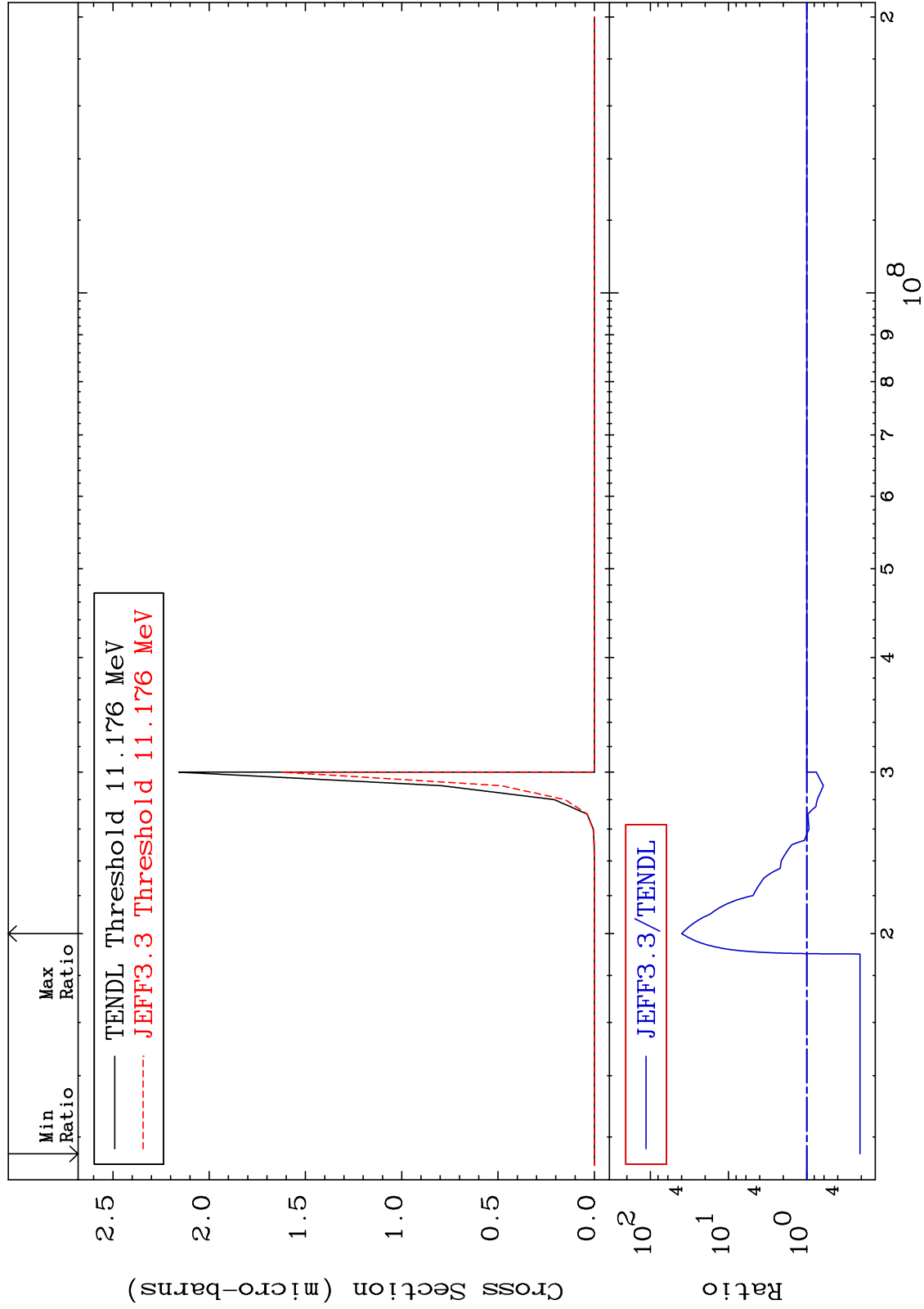
MAT 3434

(n,n') 2α

34-Se-77

Cross Section

-79.24 To 3885. %



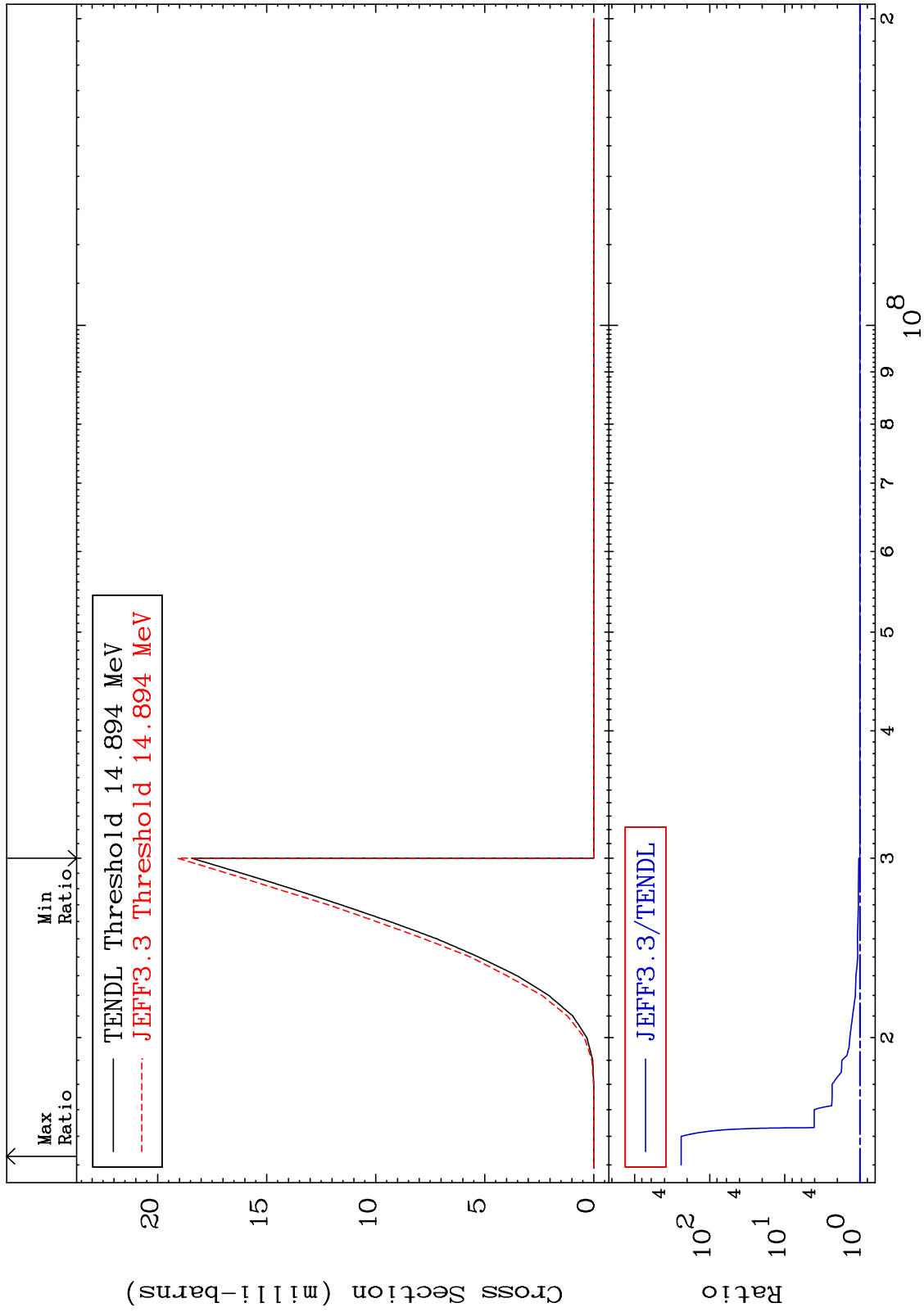
MAT 3434

(n, n') d

<sup>34</sup>Se-77

Cross Section

0.000 To 9999. %



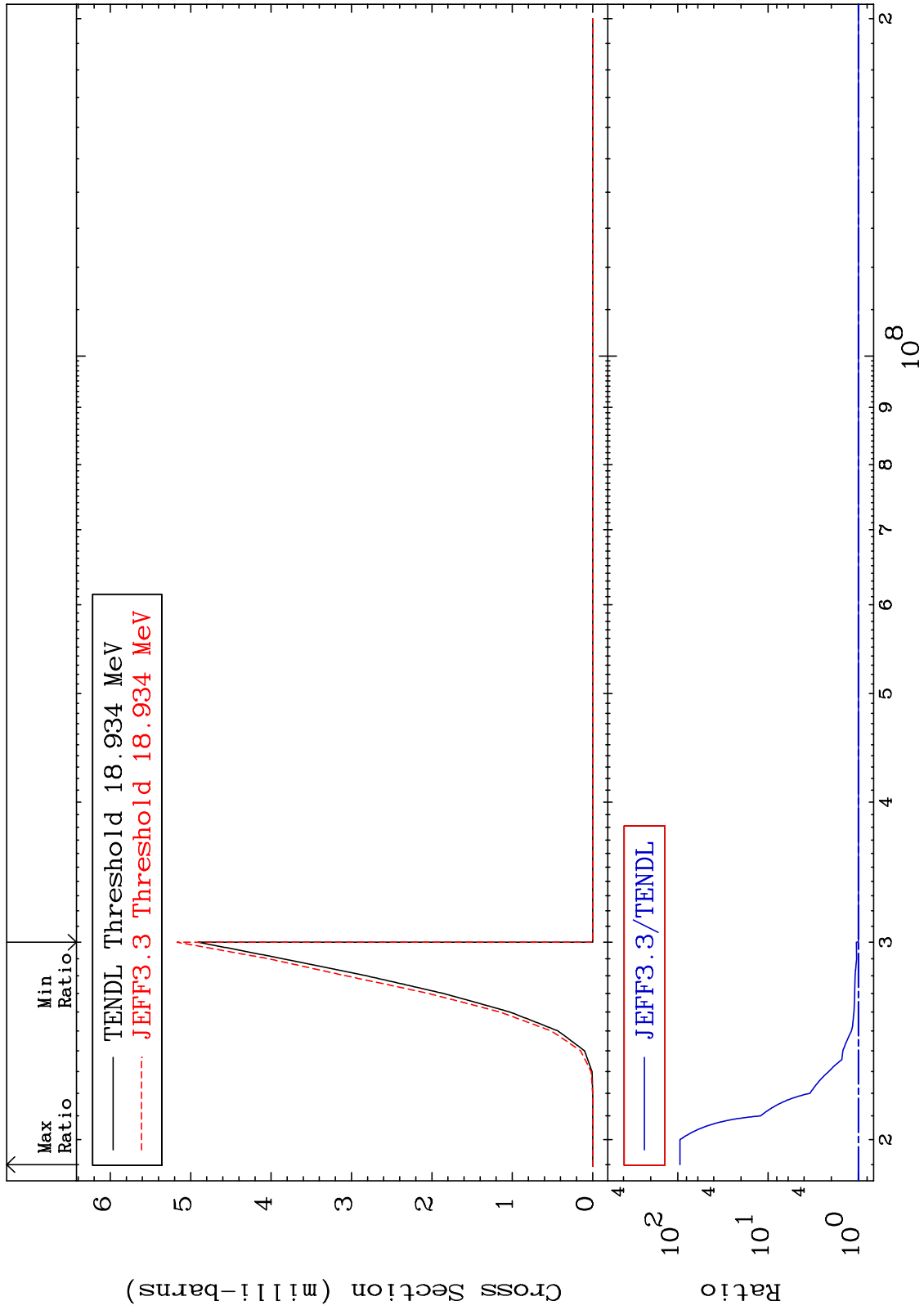
MAT 3434

(n,n') t

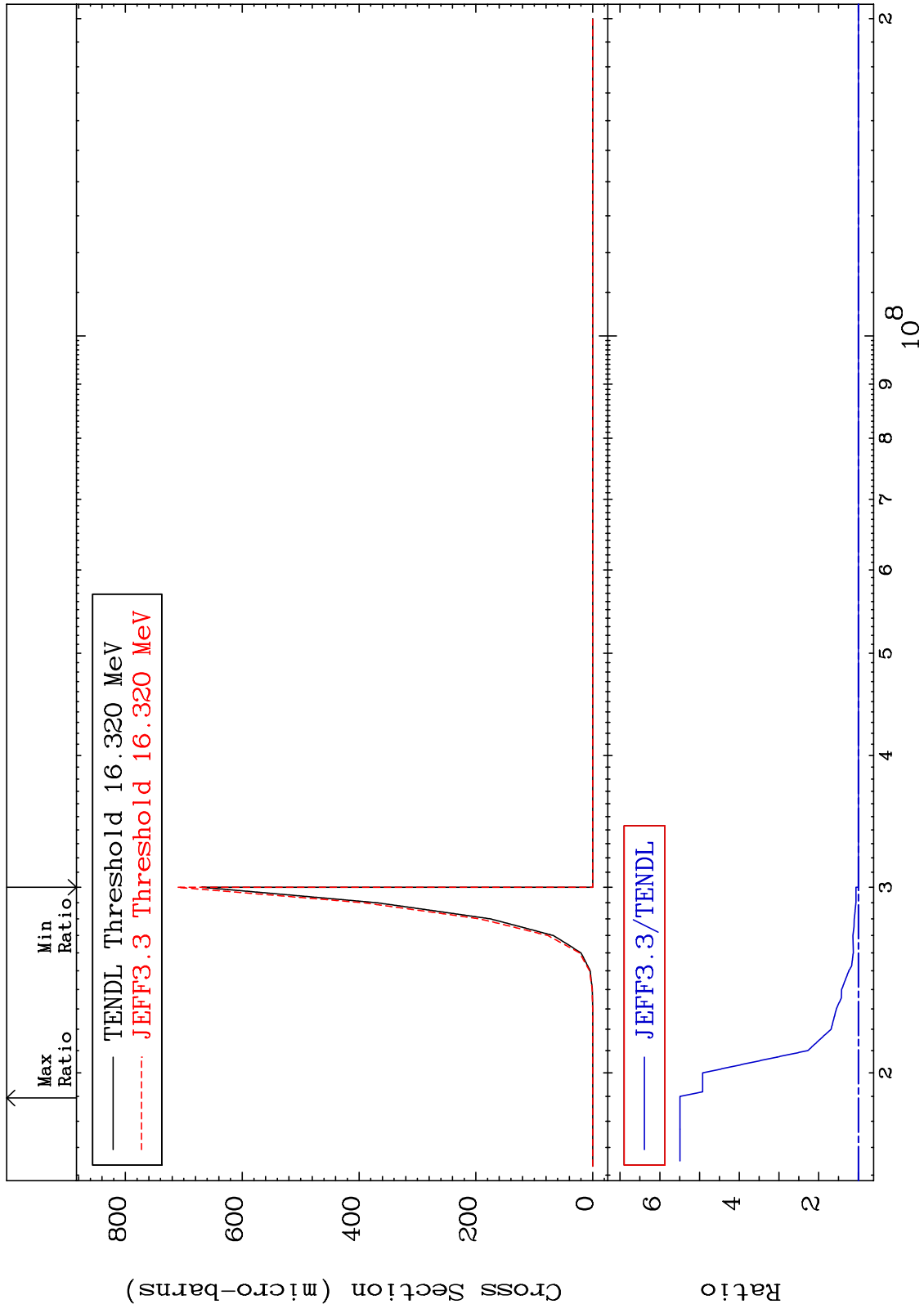
<sup>34</sup>Se-77

Cross Section

0.000 To 9351. %



MAT 3434 (n, n') He-3 Cross Section 34-Se-77 0.000 To 449.0 %



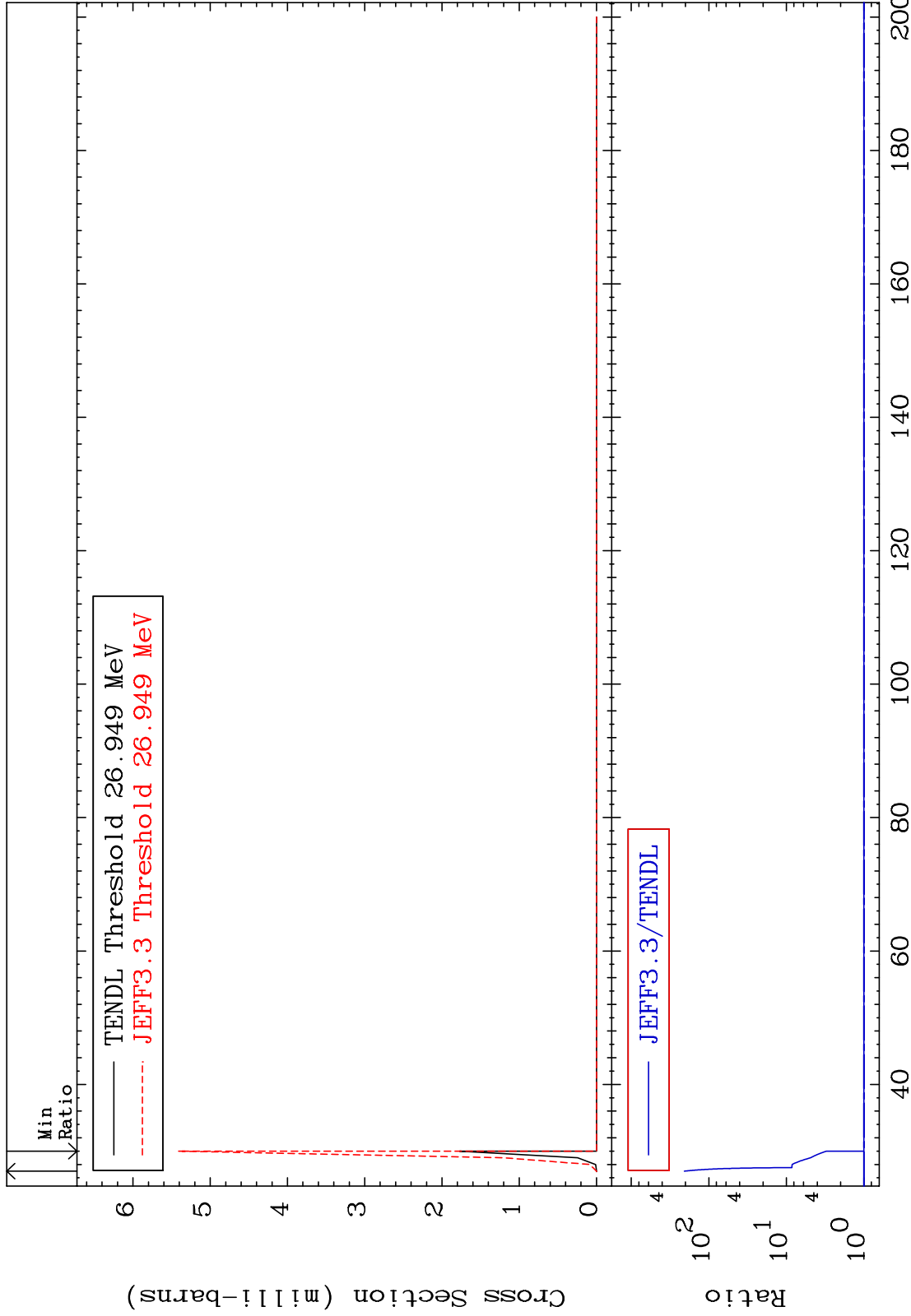
MAT 3434

(n, 4n)

<sup>34</sup>Se-77

Cross Section

0.000 To 9999. %

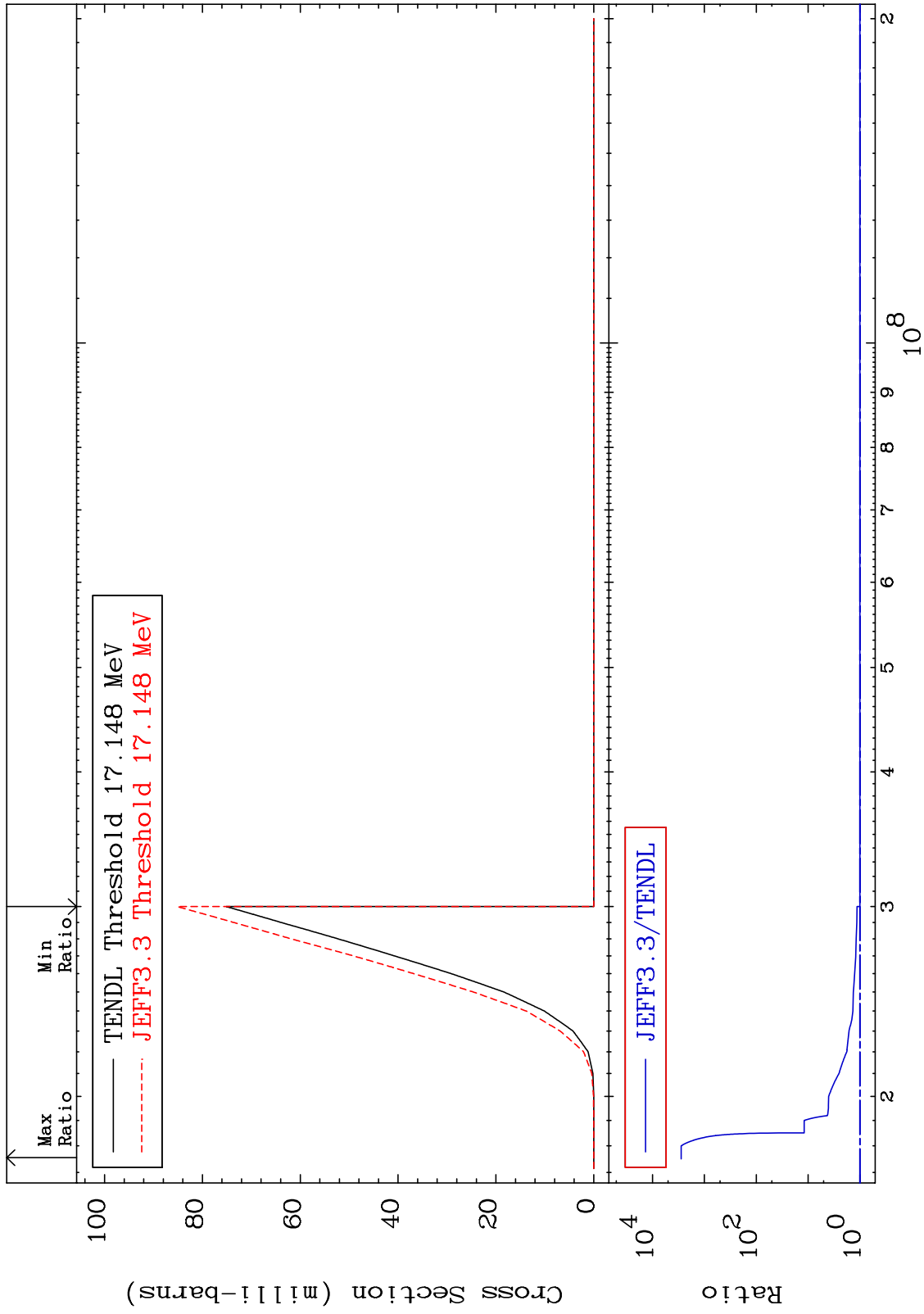




MAT 3434

(n,2n) p  
Cross Section

34-Se-77  
0.000 To 9999. %



MAT 3434

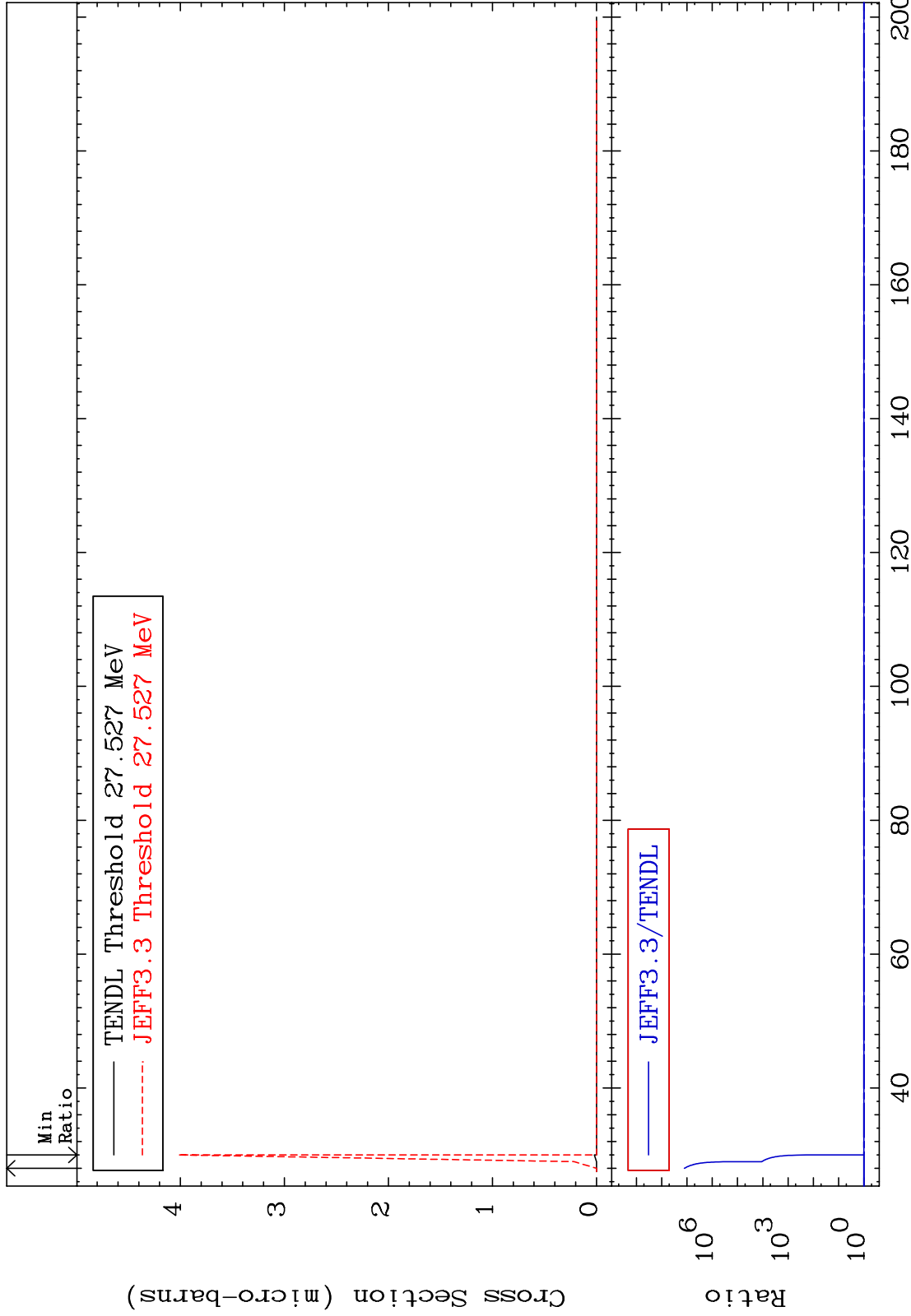
(n,3n) p

<sup>34</sup>Se-77

Cross Section

0.000

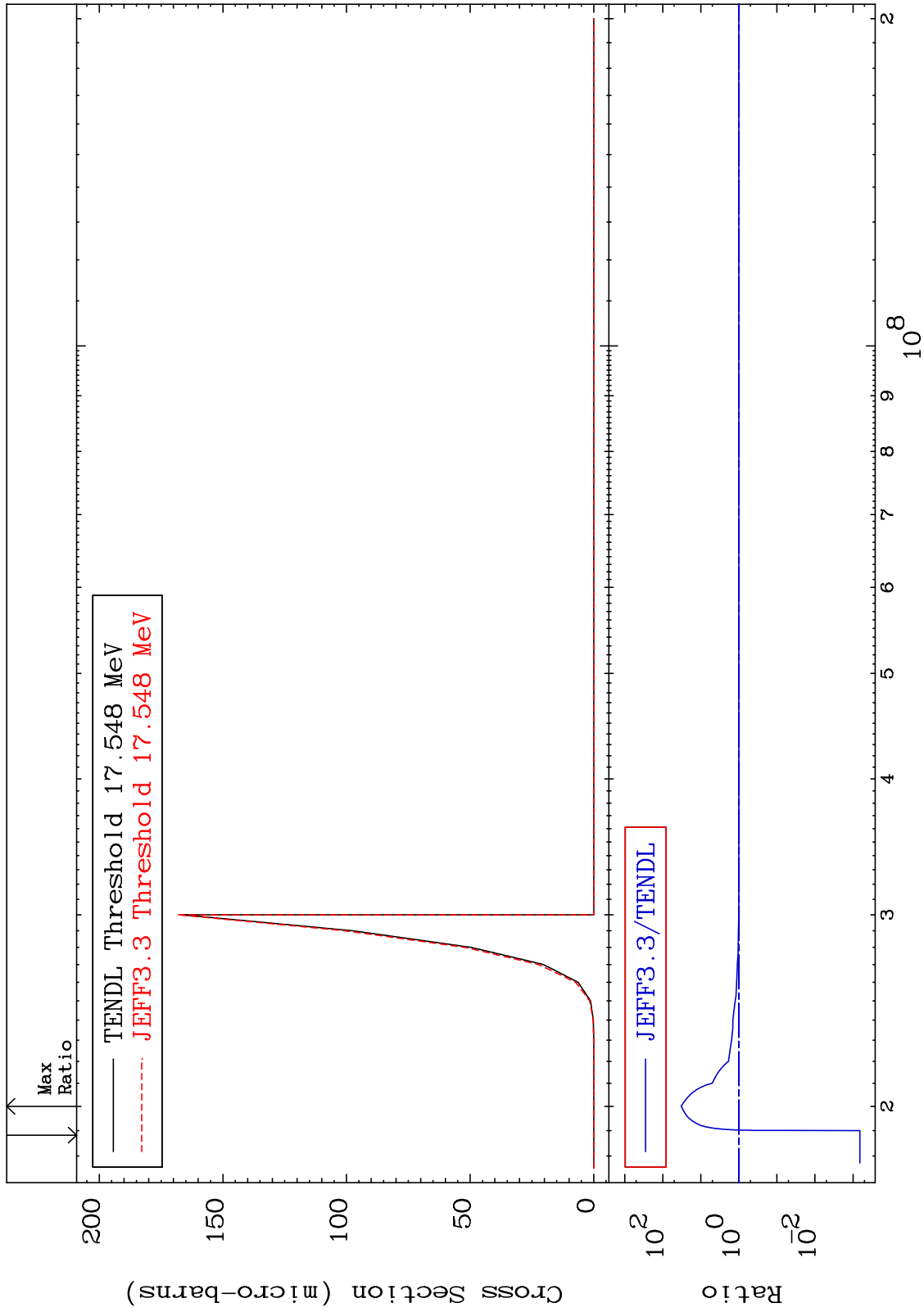
To 9999. %



MAT 3434

(n,2n) p  
Cross Section

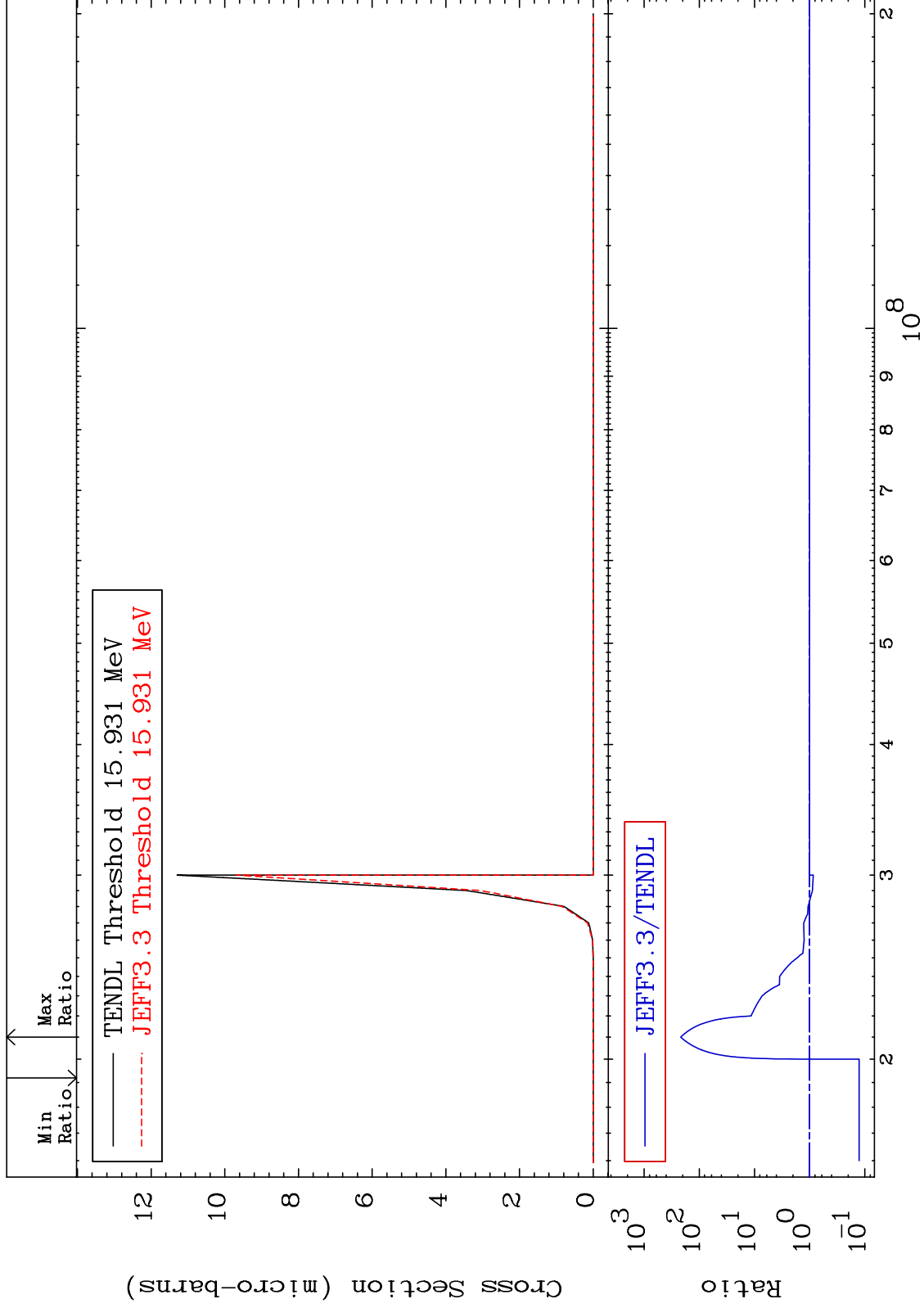
34-Se-77  
-99.93 To 3182. %



MAT 3434

(n,n') p  $\alpha$   
Cross Section

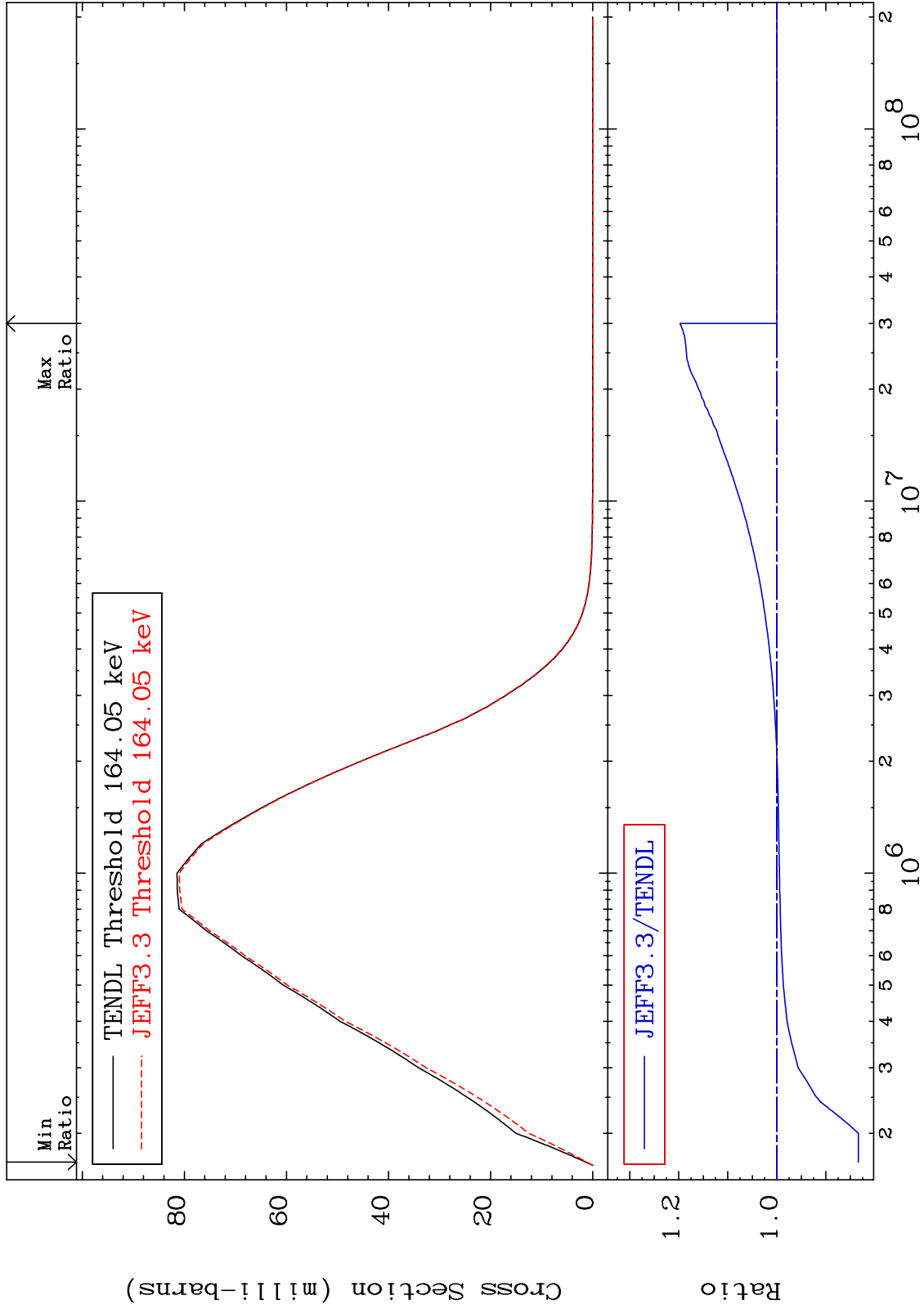
34-Se-77  
-87.34 To 9999. %



MAT 3434

MT= 51 (n,n') Level  
Cross Section

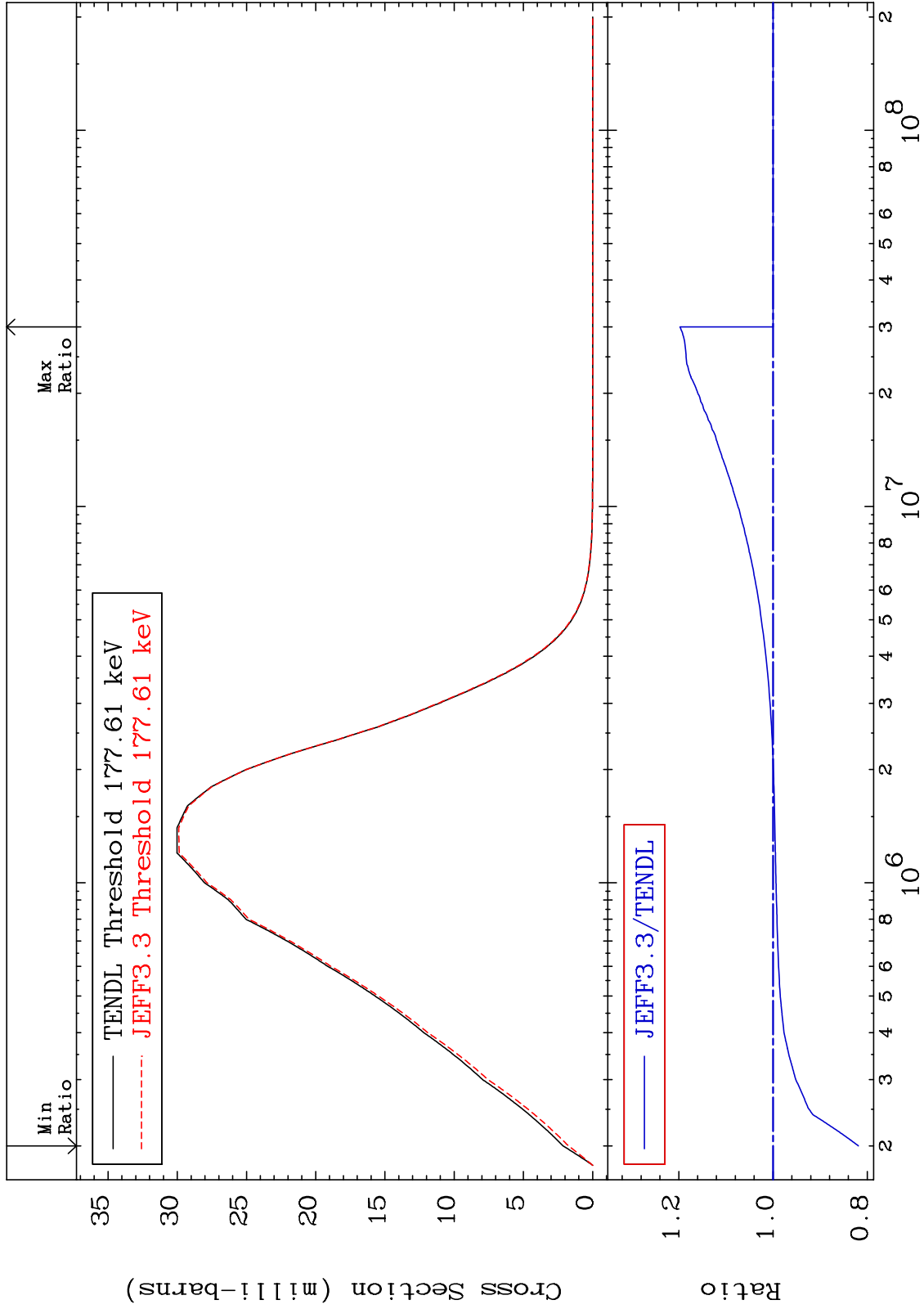
34-Se-77  
-16.64 To 19.74 %



MAT 3434

MT= 52 (n,n') Level  
Cross Section

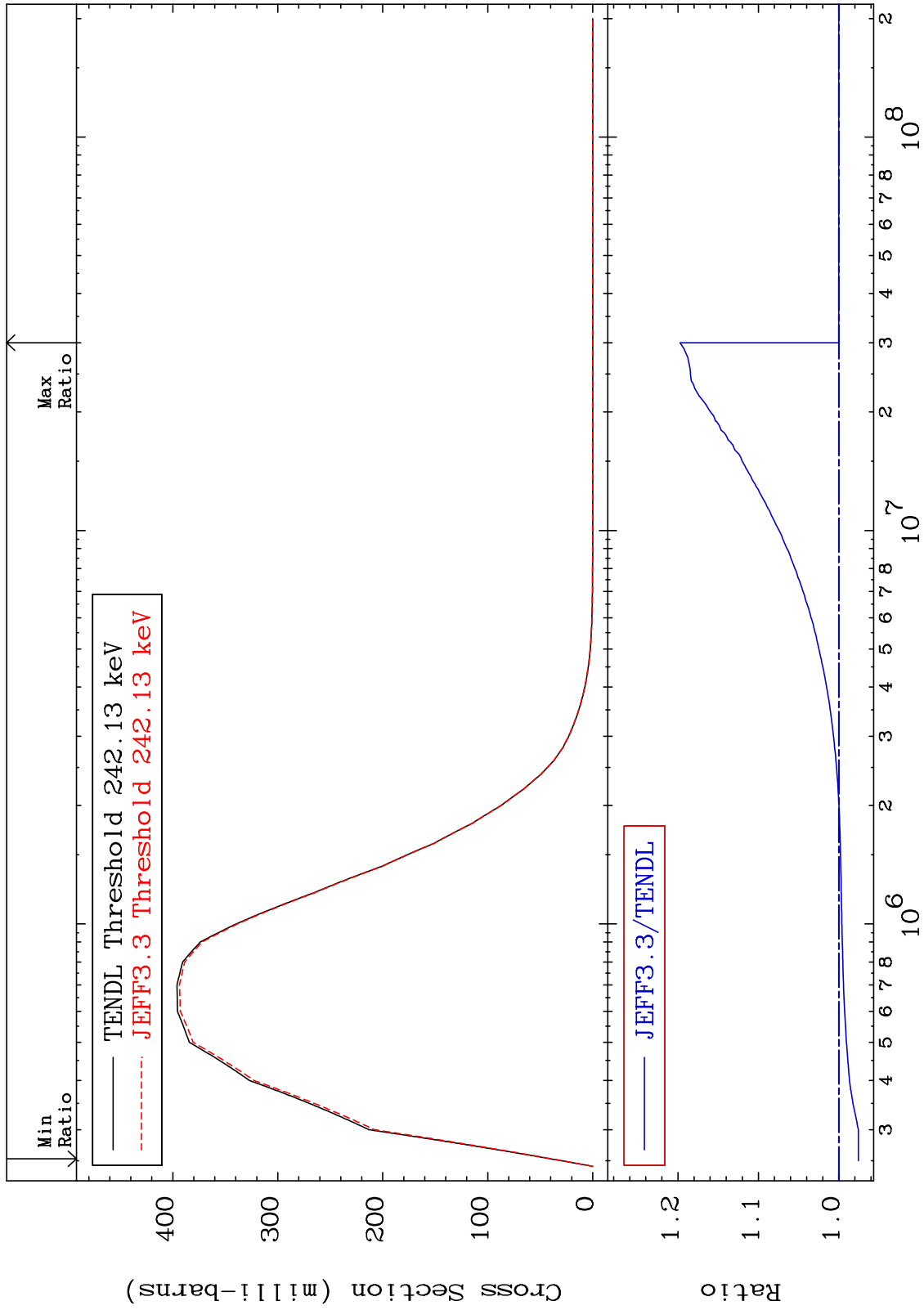
34-Se-77  
-18.12 To 19.74 %



MAT 3434

MT= 53 (n,n') Level  
Cross Section

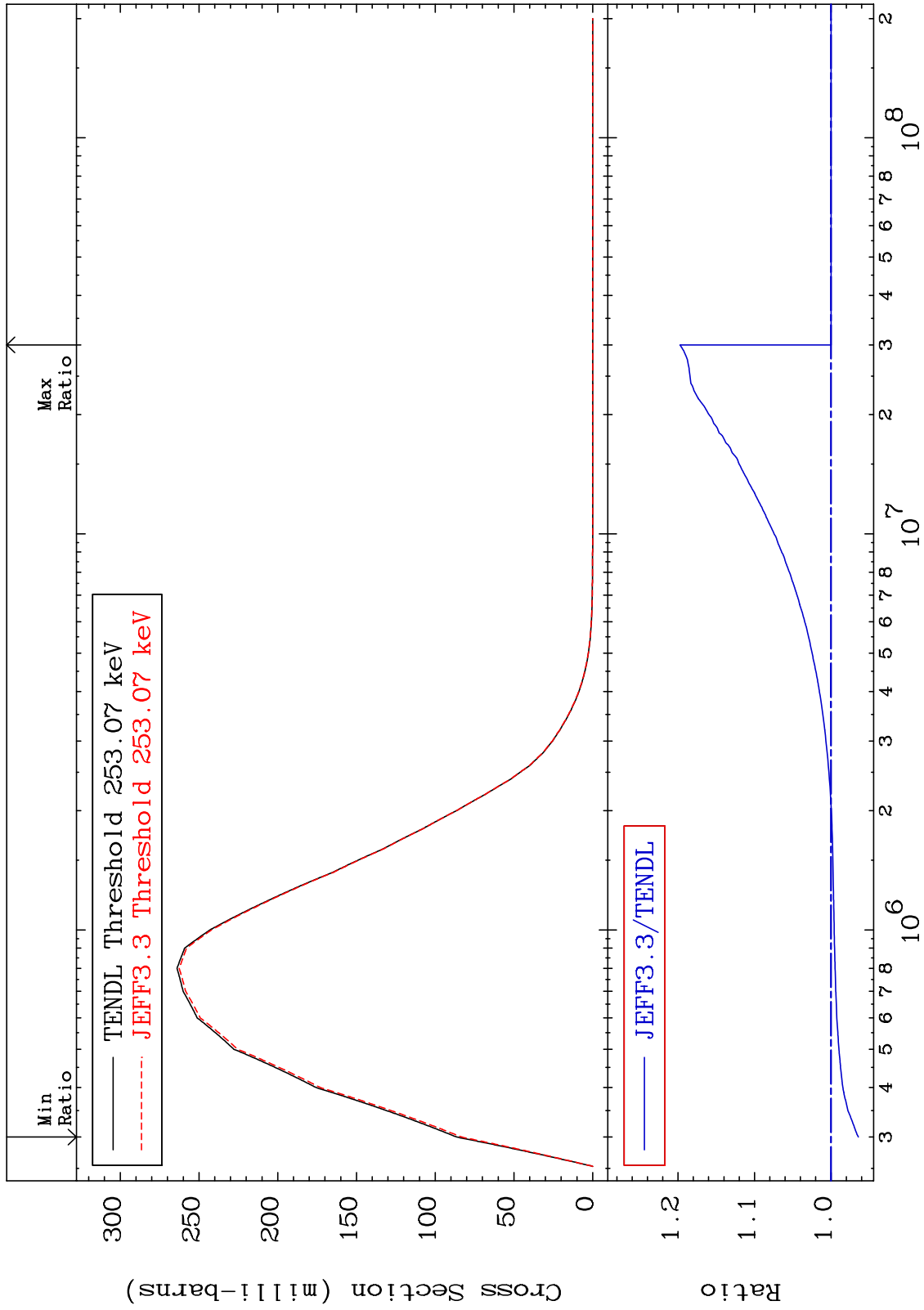
34-Se-77  
-2.437 To 19.74 %



MAT 3434

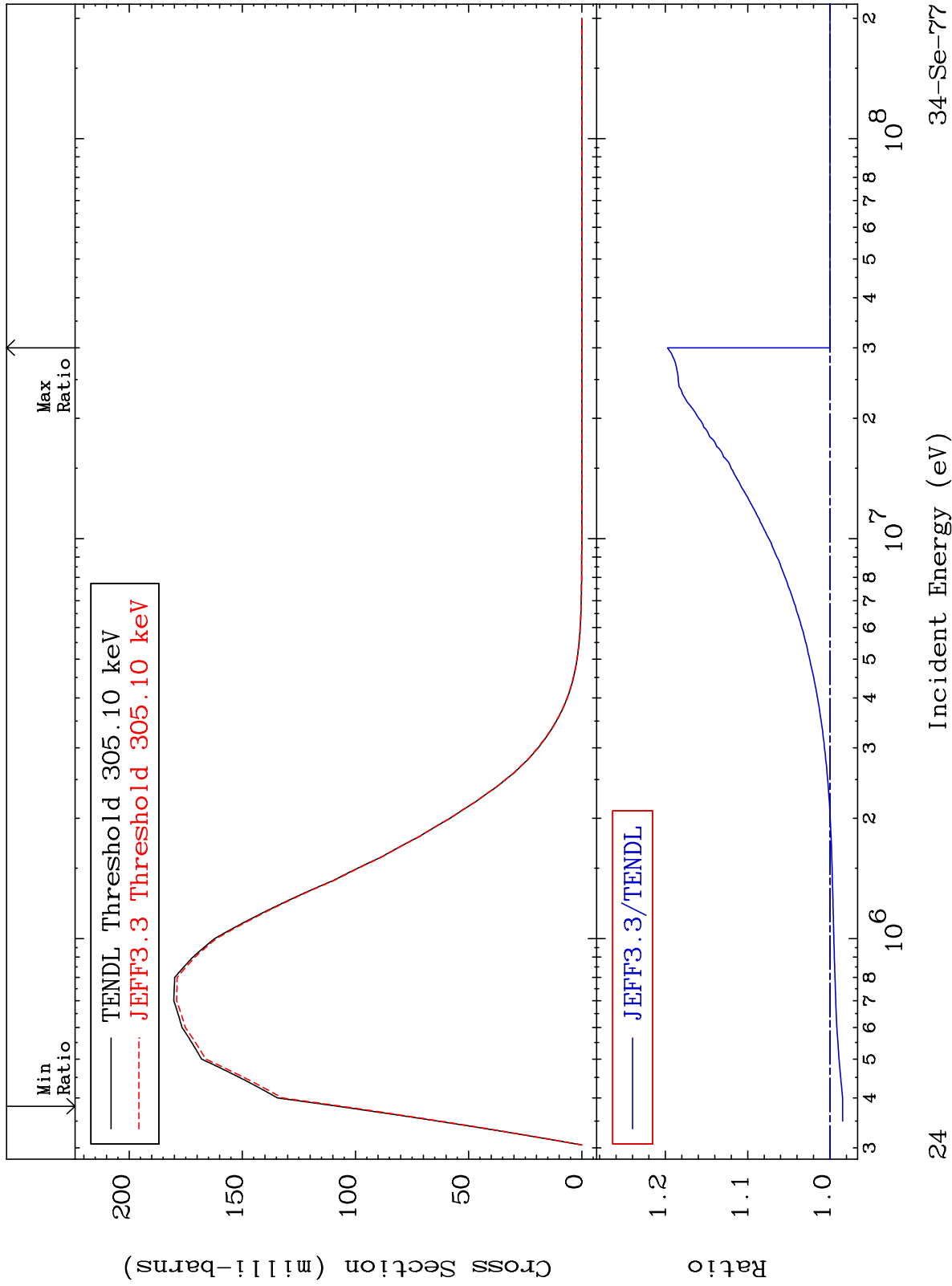
MT= 54 (n,n') Level  
Cross Section

34-Se-77  
-3.583 To 19.74 %





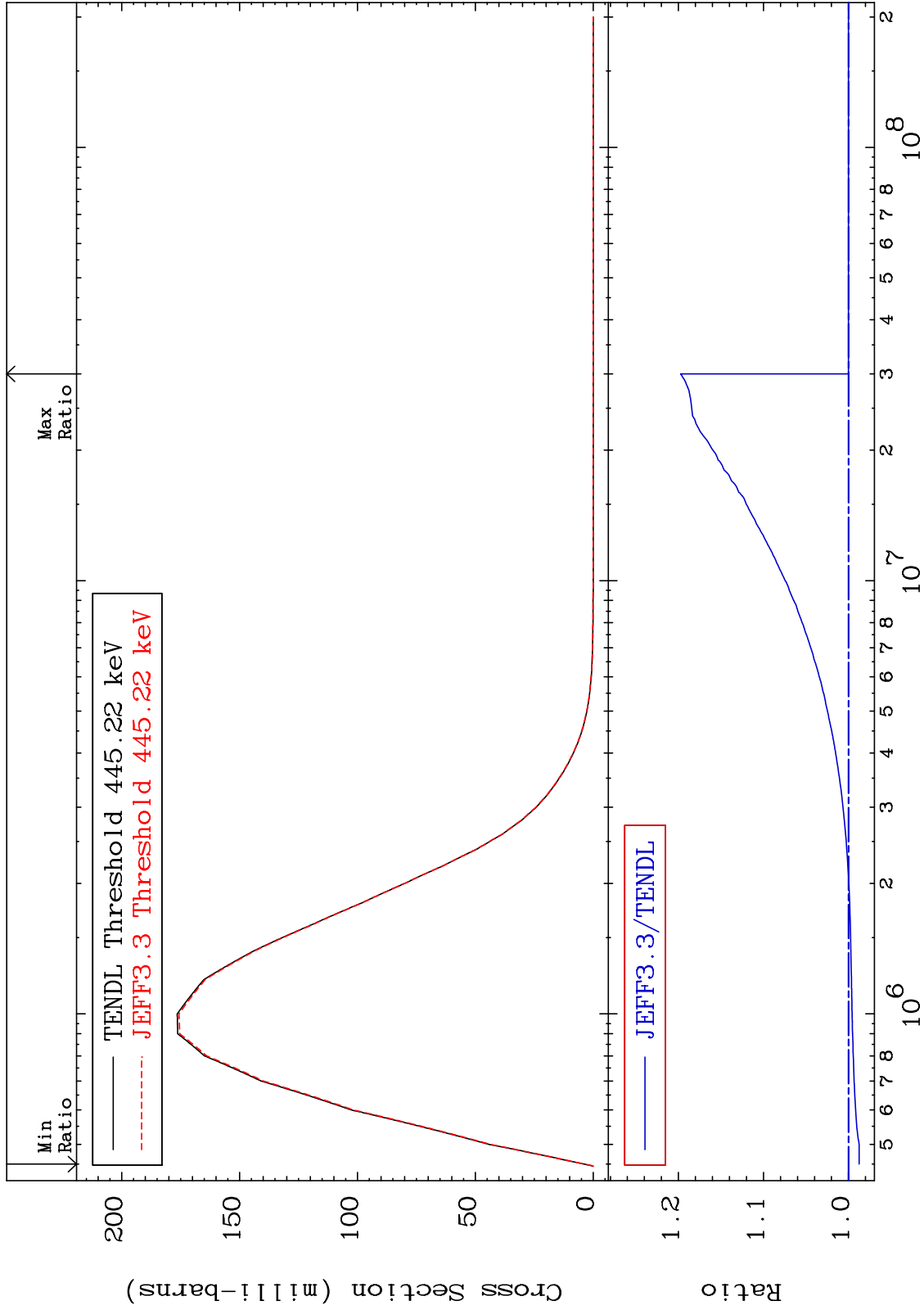
MAT 3434 MT= 55 (n,n') Level Cross Section -1.541 To 19.74 % 34-Se-77



MAT 3434

MT= 56 (n,n') Level  
Cross Section

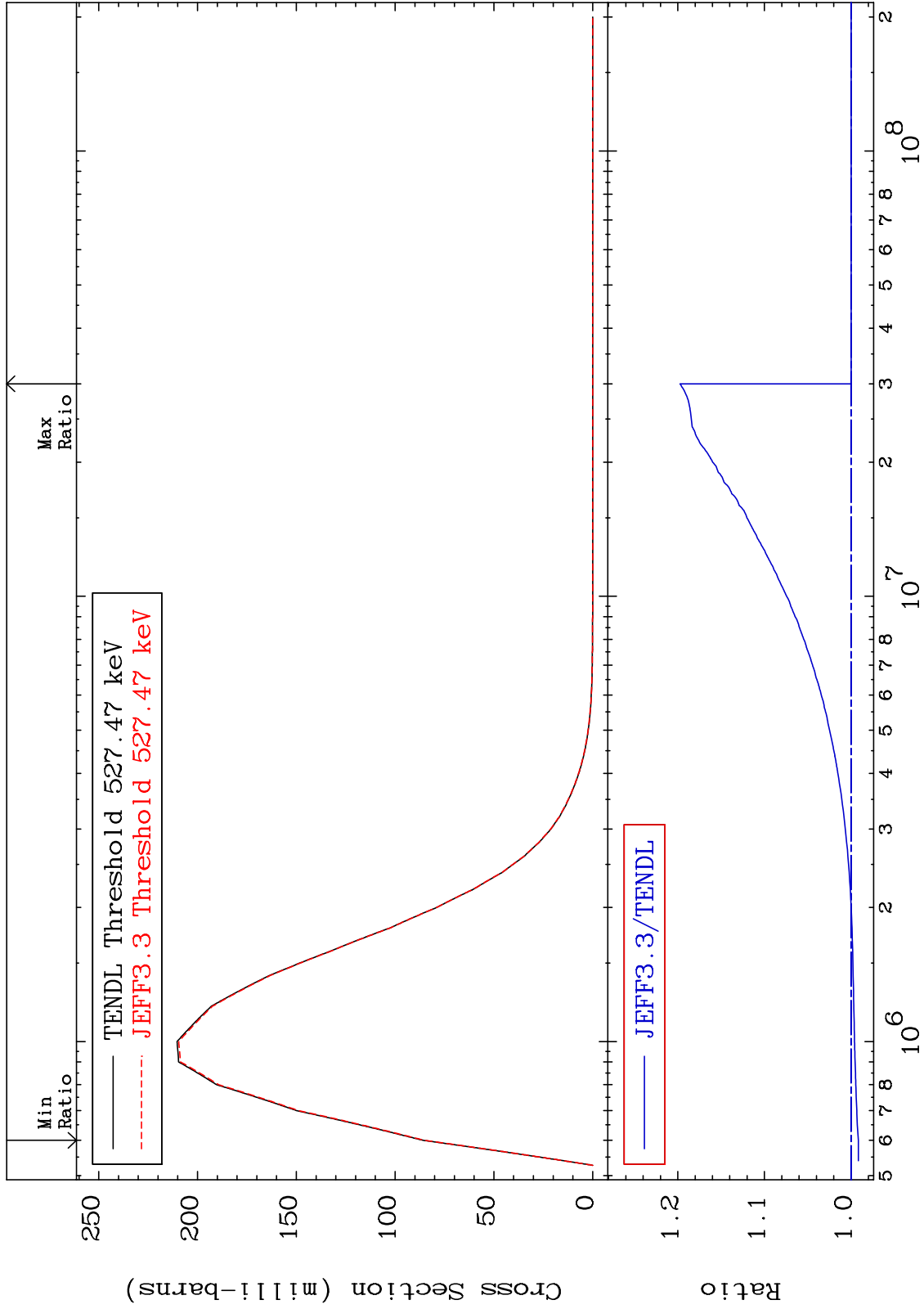
34-Se-77  
-1.253 To 19.74 %



MAT 3434

MT= 57 (n,n') Level  
Cross Section

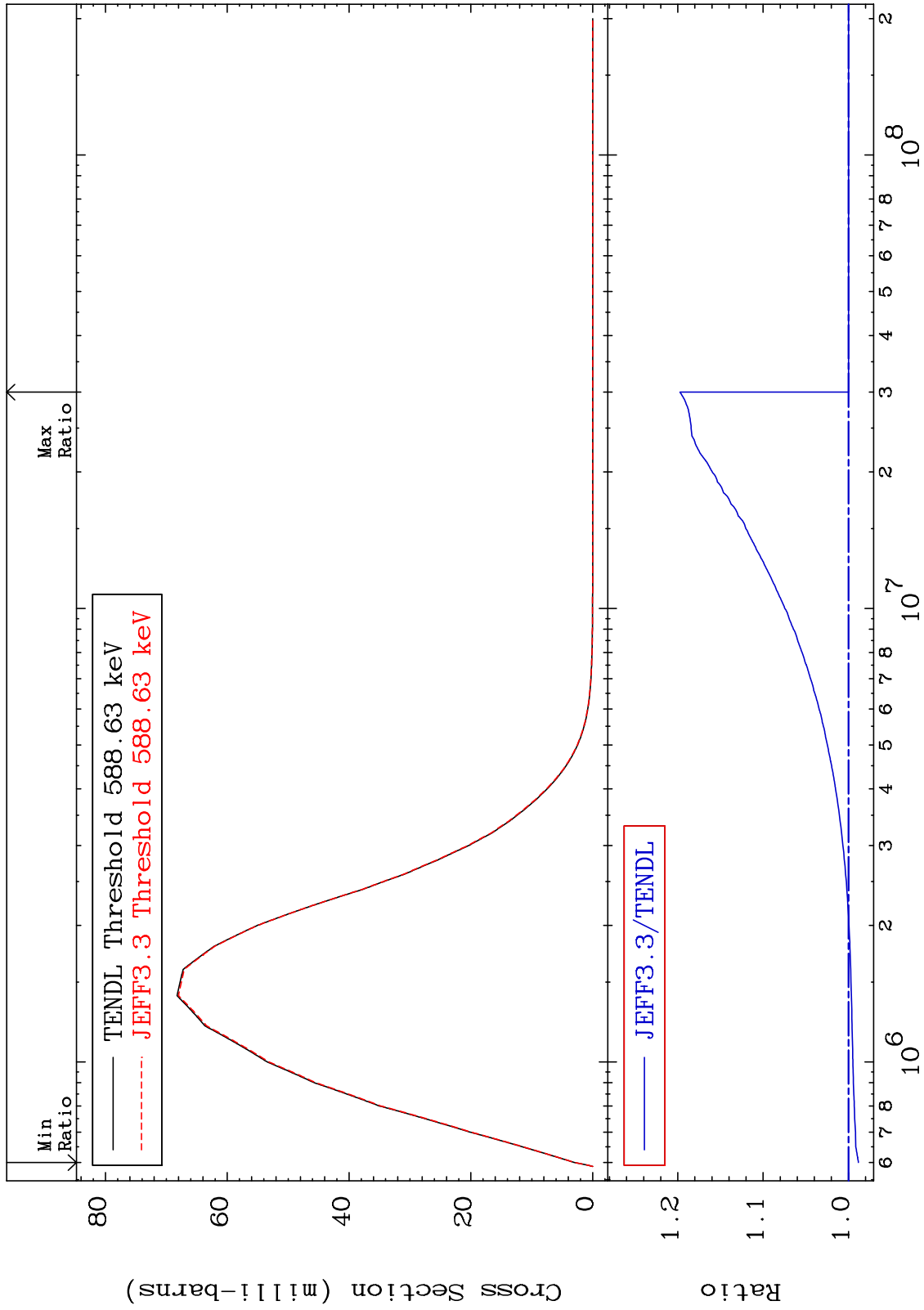
34-Se-77  
-0.846 To 19.74 %



MAT 3434

MT= 58 (n,n') Level  
Cross Section

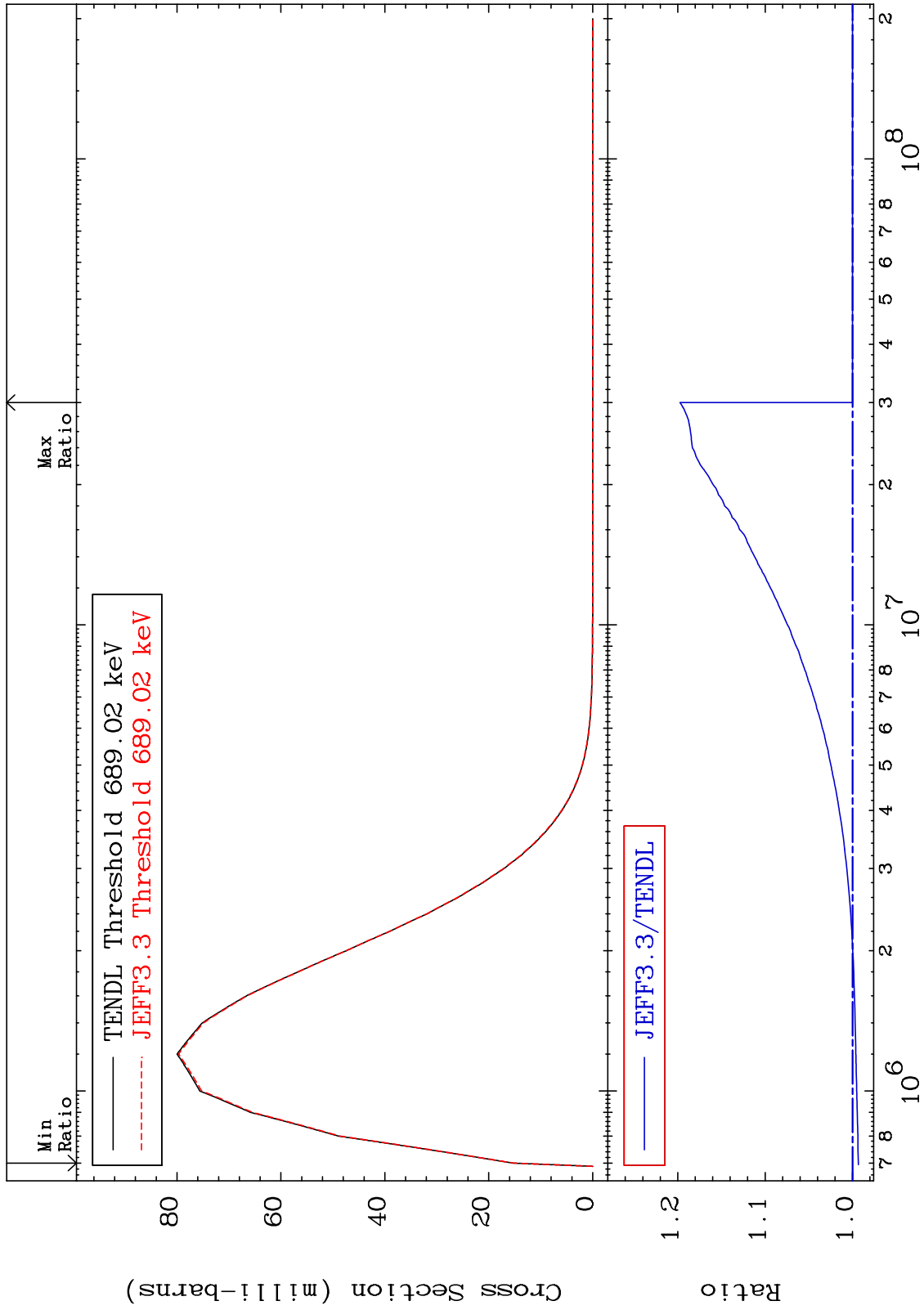
34-Se-77  
-1.164 To 19.74 %



MAT 3434

MT= 59 (n,n') Level  
Cross Section

34-Se-77  
-0.674 To 19.74 %



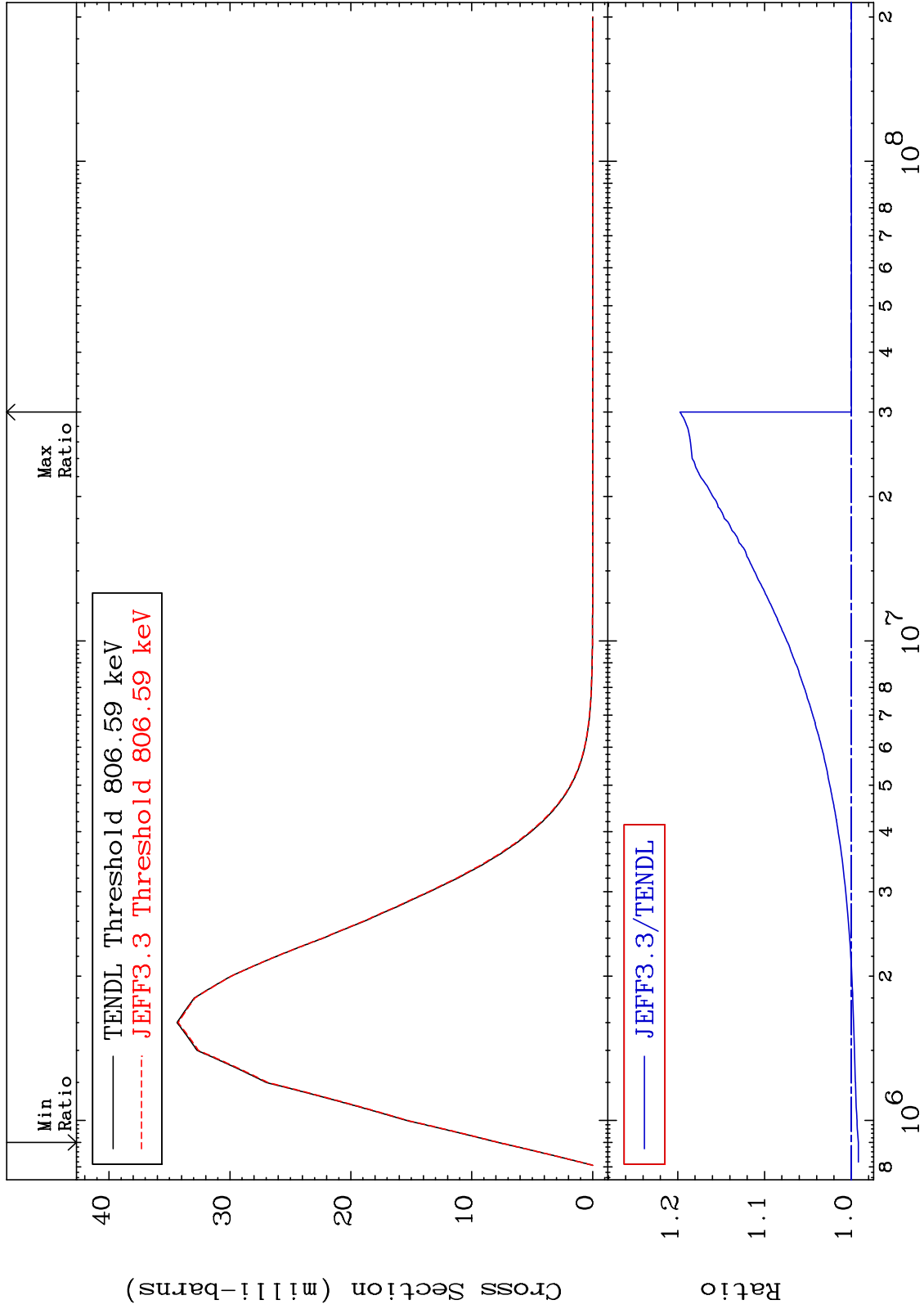
28

34-Se-77

MAT 3434

MT= 60 (n,n') Level  
Cross Section

34-Se-77  
-0.817 To 19.74 %



Min Ratio

Max Ratio

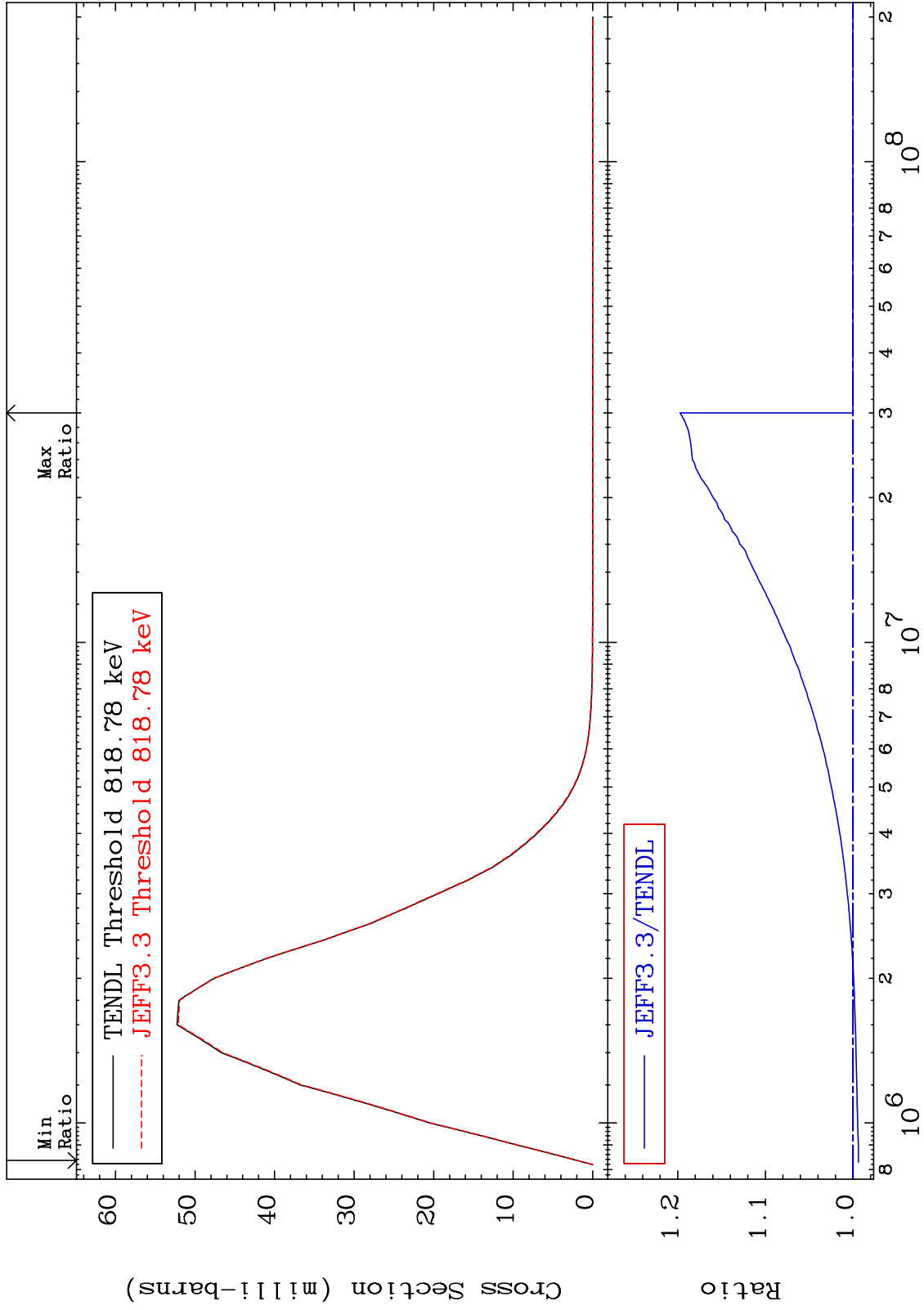
— TENDL Threshold 806.59 keV  
- - - JEFF3.3 Threshold 806.59 keV

— JEFF3.3/TENDL

MAT 3434

MT= 61 (n,n') Level  
Cross Section

34-Se-77  
-0.617 To 19.74 %



34-Se-77

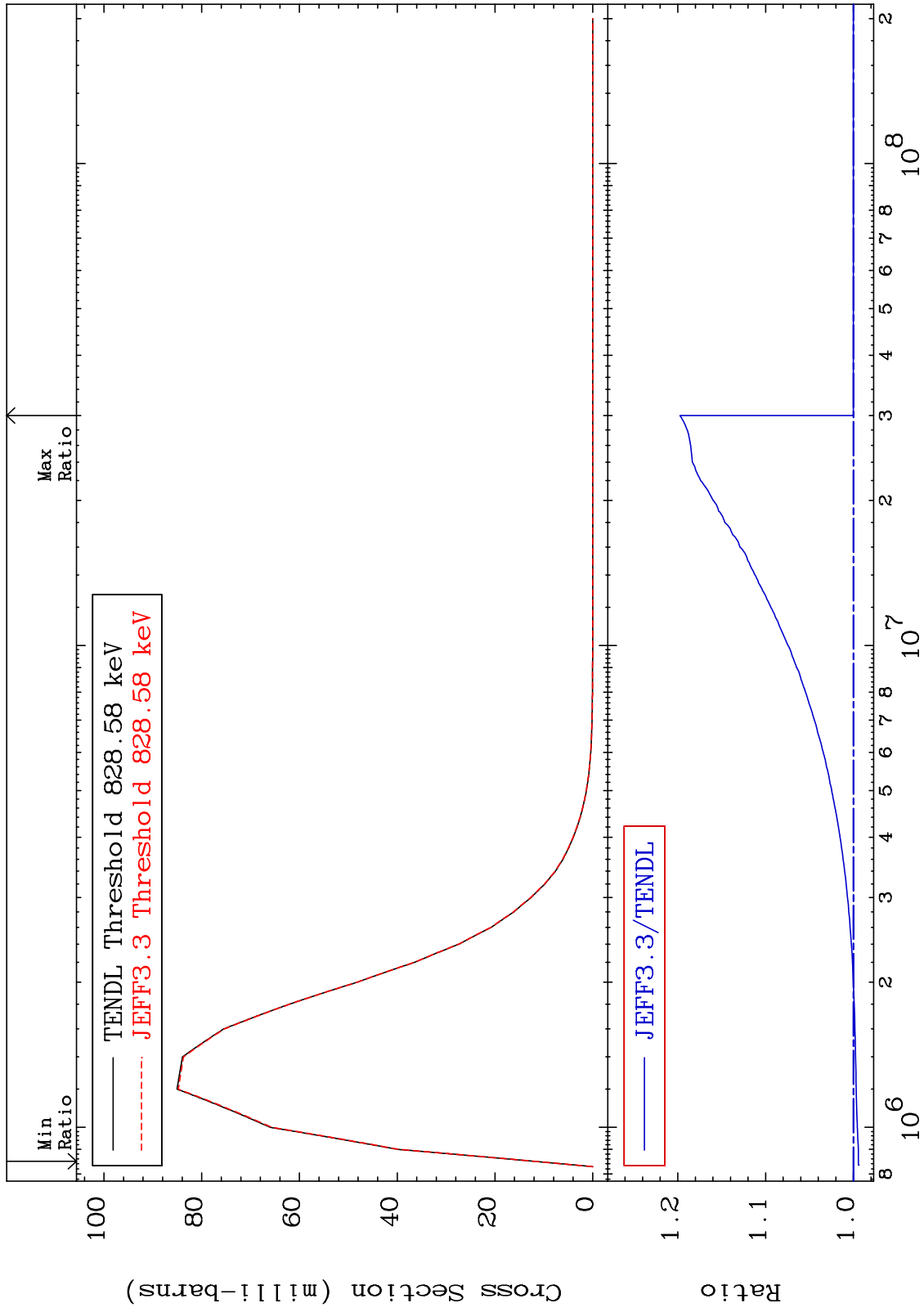
Incident Energy (eV)

30

MAT 3434

MT= 62 (n,n') Level  
Cross Section

34-Se-77  
-0.570 To 19.74 %



31

Incident Energy (eV)

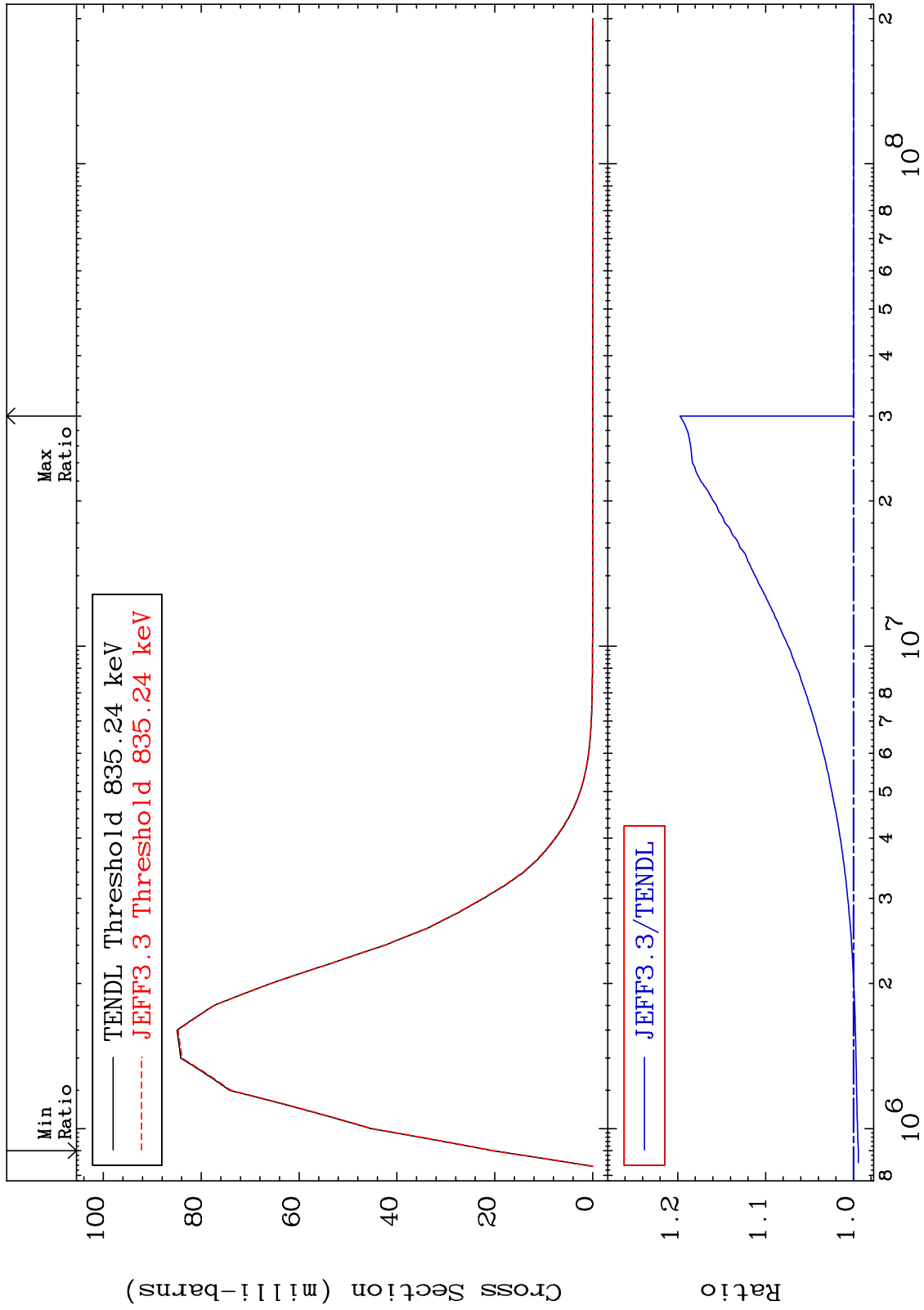
34-Se-77



MAT 3434

MT= 63 (n,n') Level  
Cross Section

34-Se-77  
-0.558 To 19.74 %



32

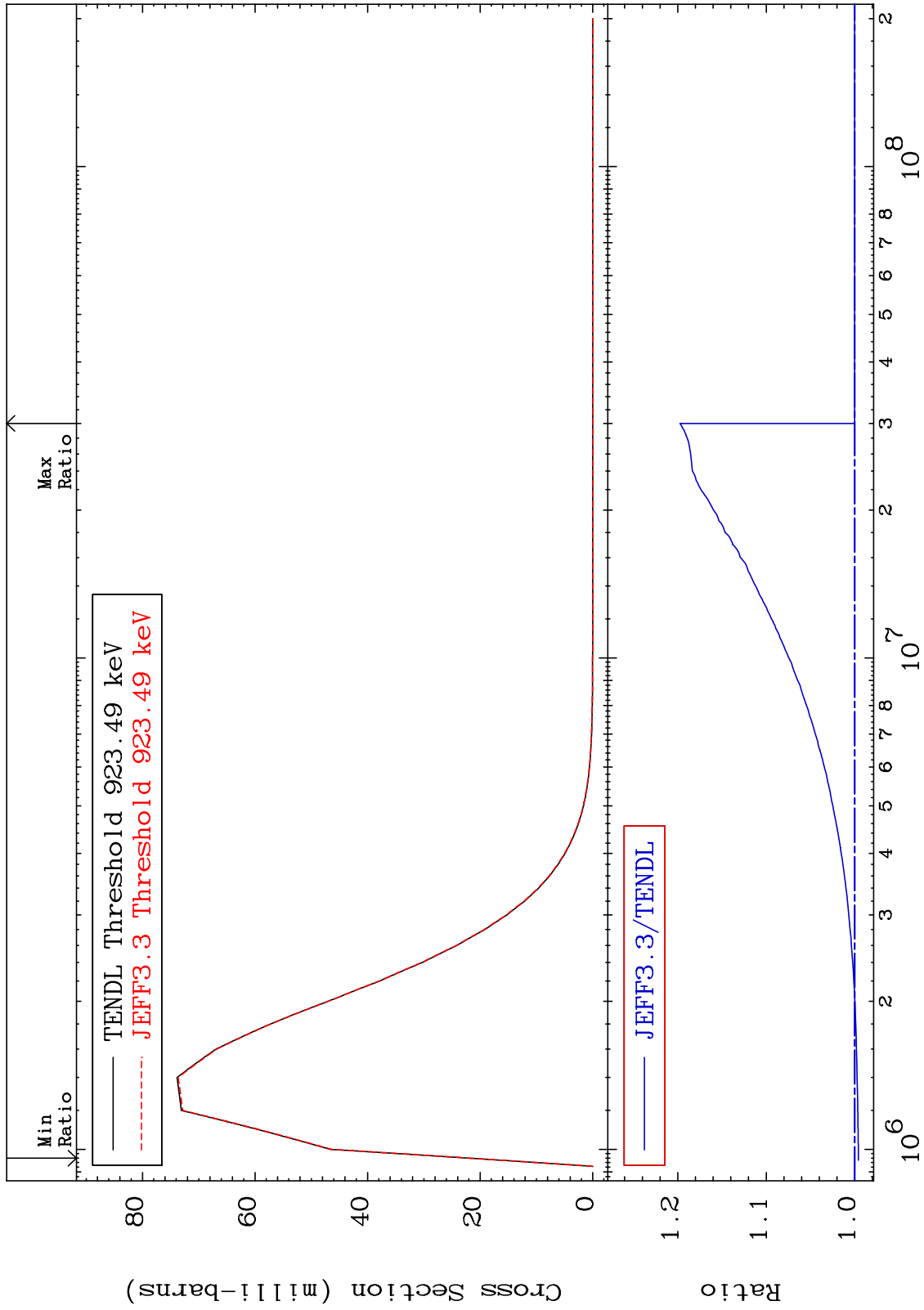
Incident Energy (eV)

34-Se-77

MAT 3434

MT= 64 (n,n') Level  
Cross Section

34-Se-77  
-0.418 To 19.74 %



Incident Energy (eV)

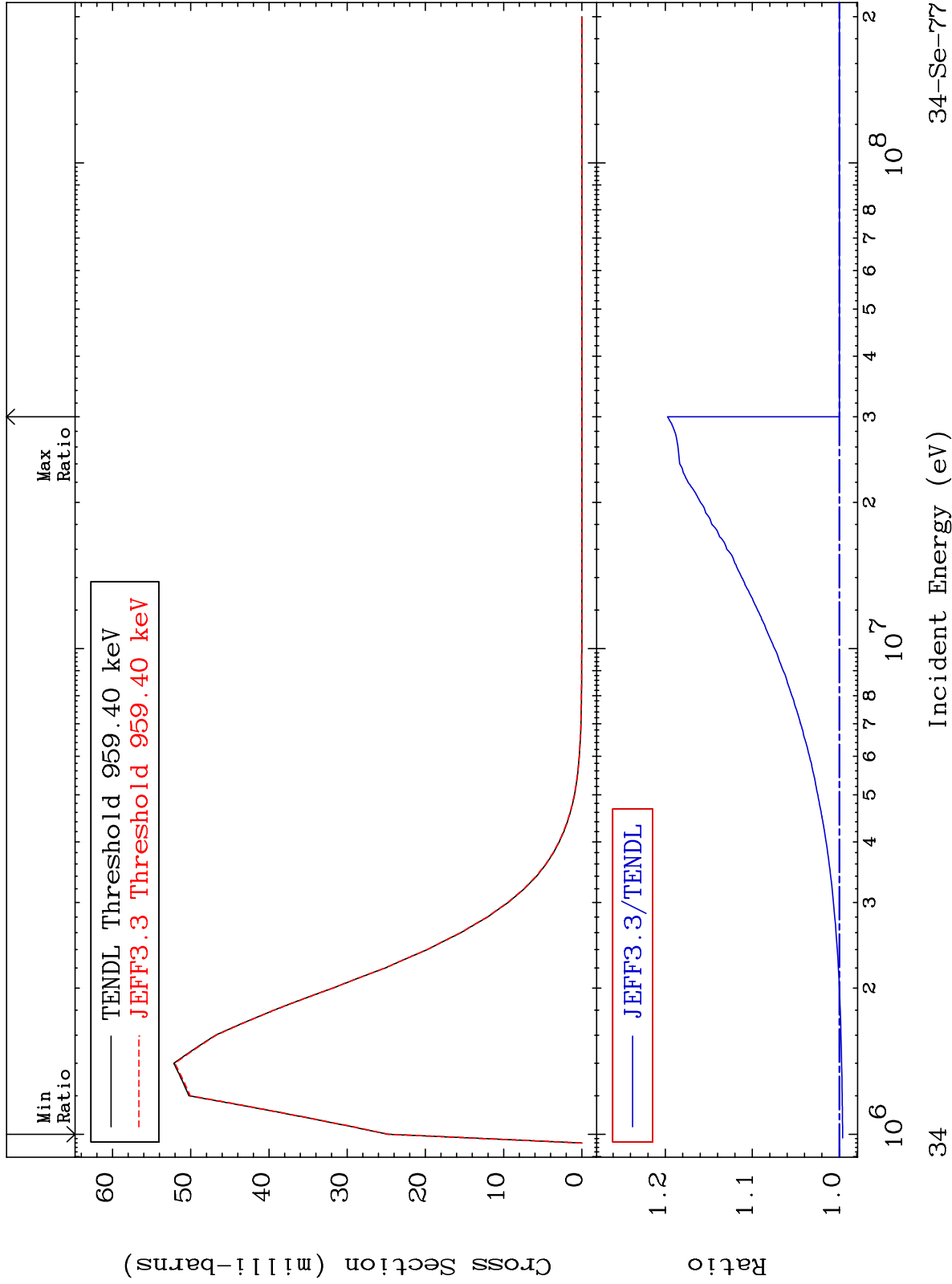
34-Se-77

33

MAT 3434

MT= 65 (n,n') Level  
Cross Section

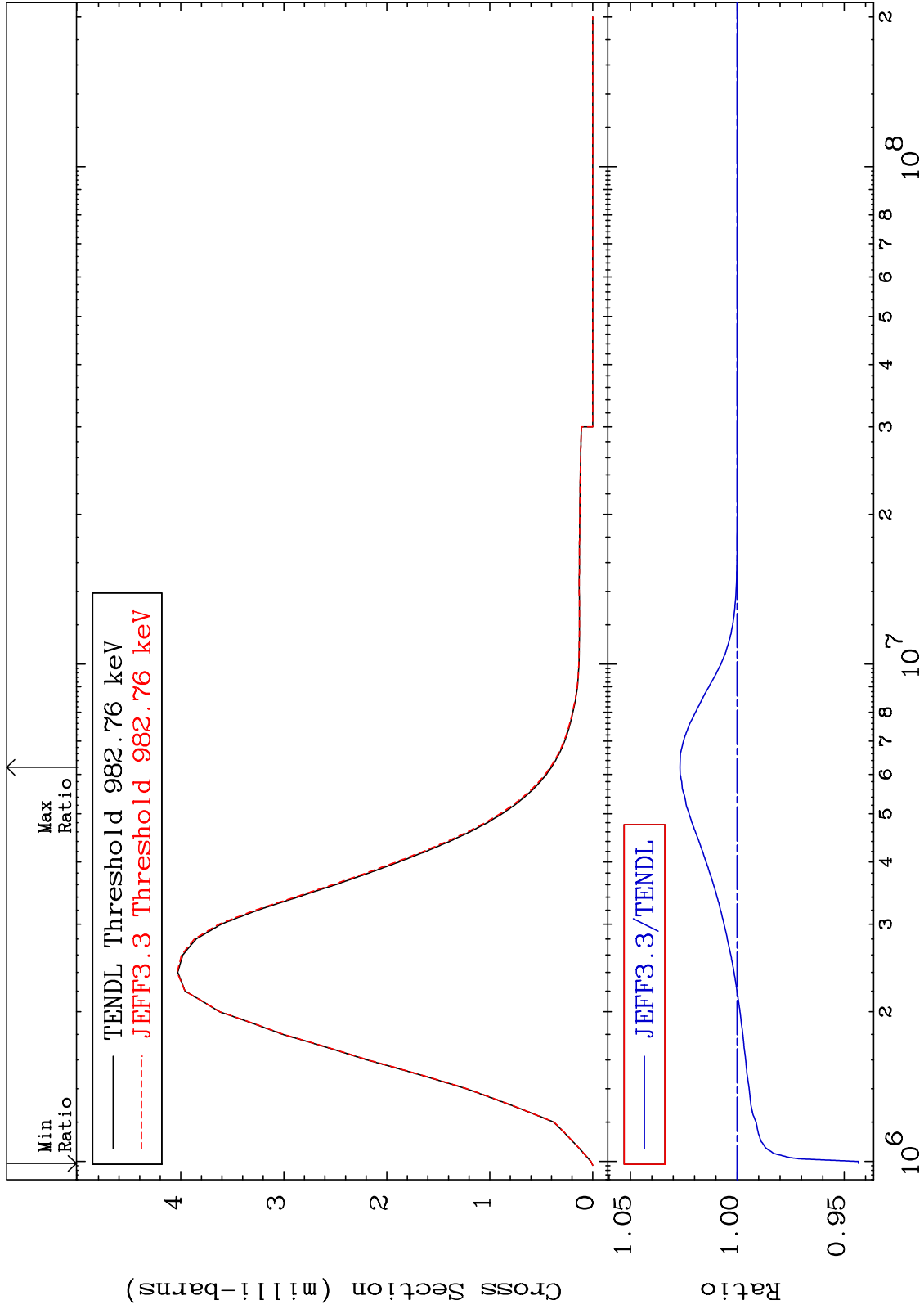
34-Se-77  
-0.383 To 19.75 %



MAT 3434

MT= 66 (n,n') Level  
Cross Section

34-Se-77  
-5.667 To 2.682 %



Incident Energy (eV)

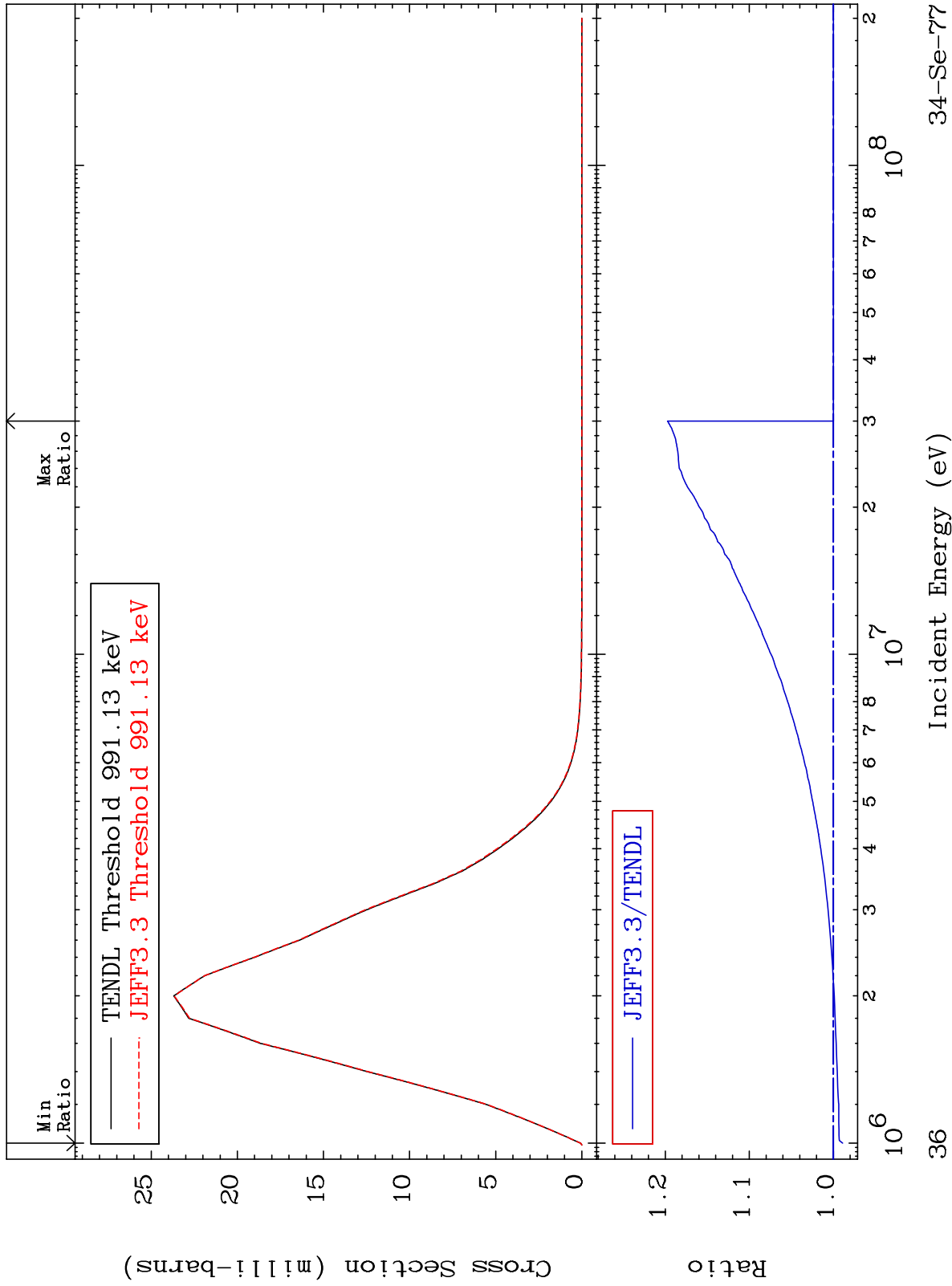
34-Se-77

35

MAT 3434

MT= 67 (n,n') Level  
Cross Section

34-Se-77  
-1.108 To 19.73 %

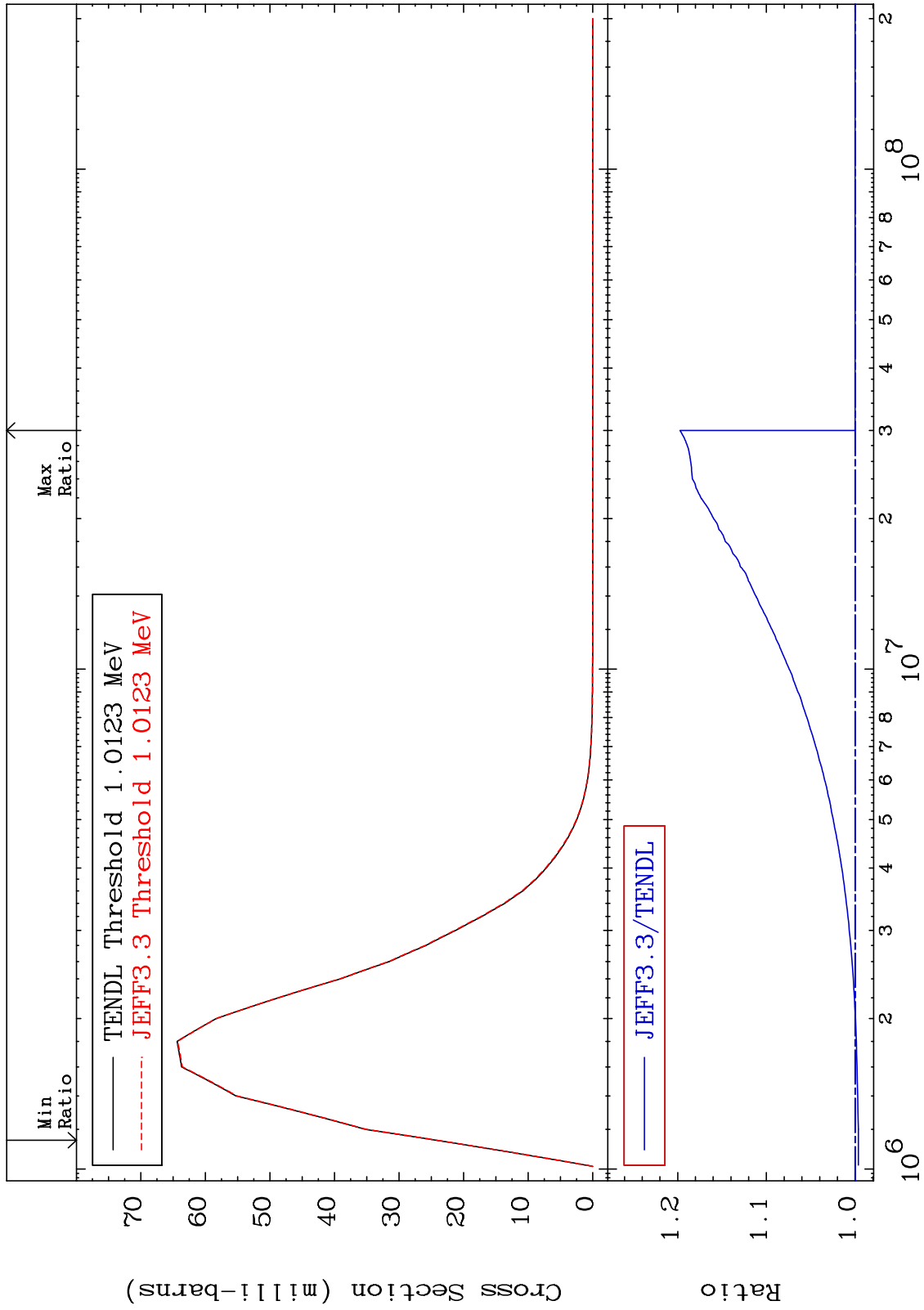


36

MAT 3434

MT= 68 (n,n') Level  
Cross Section

34-Se-77  
-0.368 To 19.74 %



37

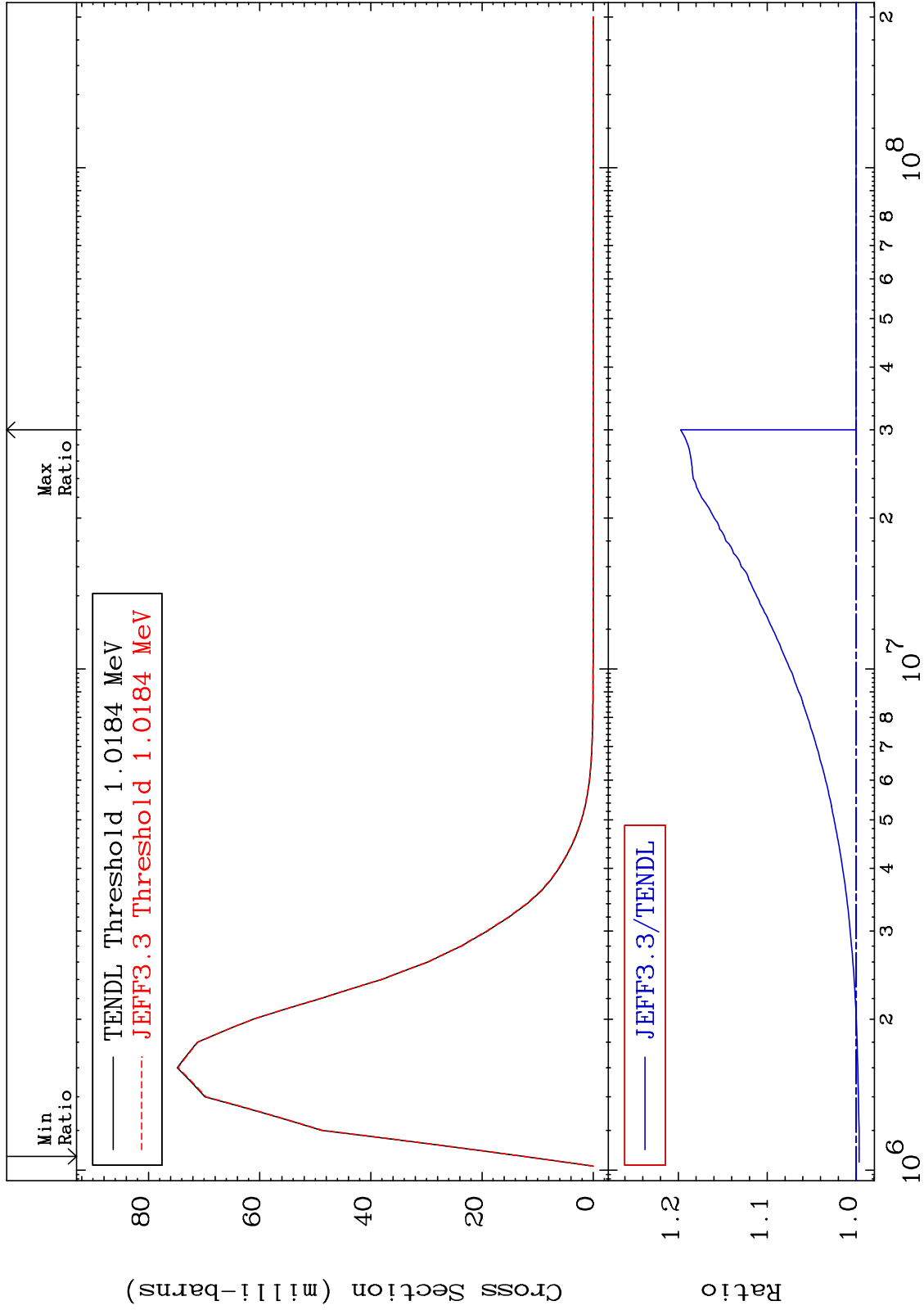
Incident Energy (eV)

34-Se-77

MAT 3434

MT= 69 (n,n') Level  
Cross Section

34-Se-77  
-0.341 To 19.74 %



38

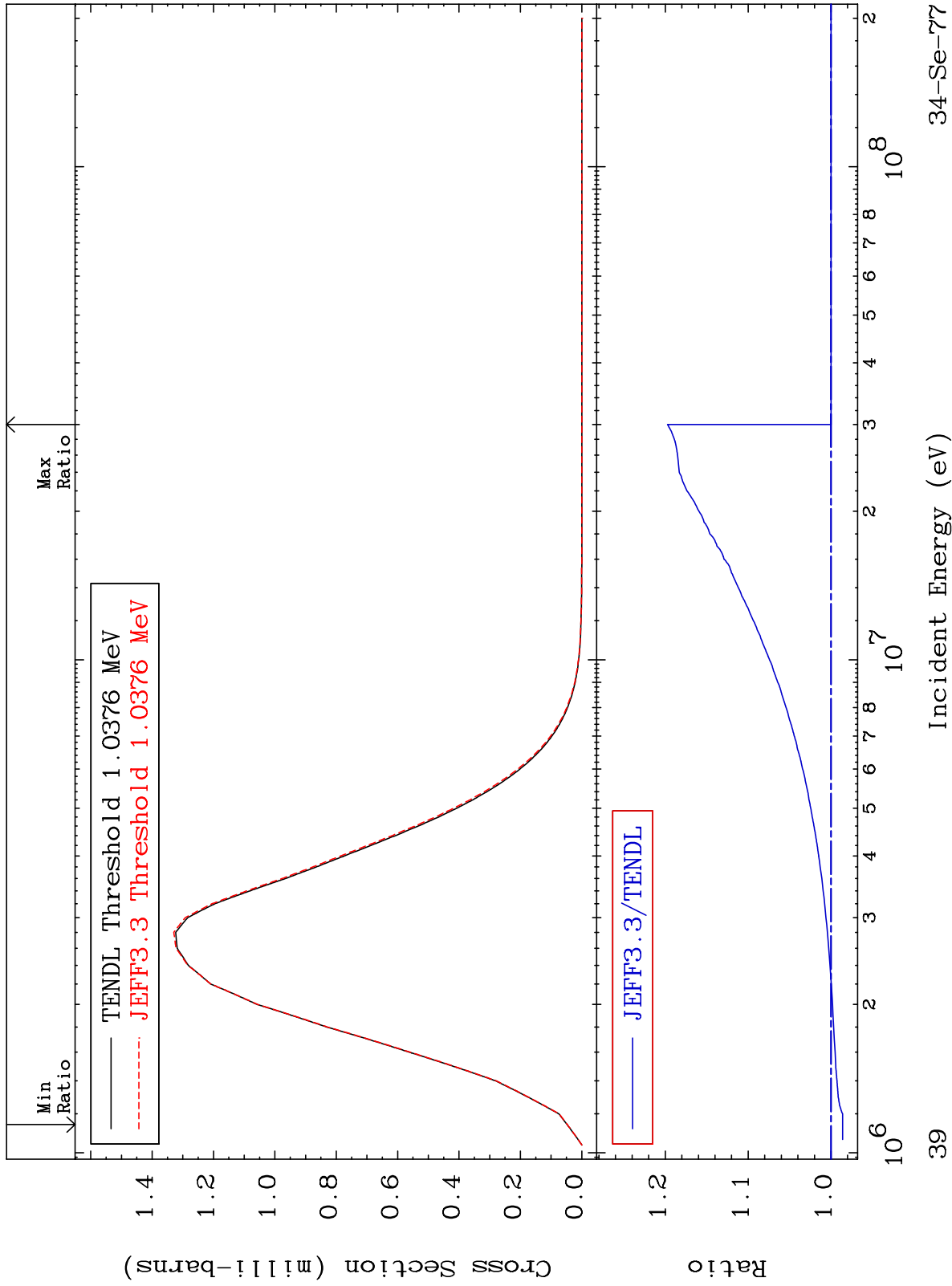
Incident Energy (eV)

34-Se-77

MAT 3434

MT= 70 (n,n') Level  
Cross Section

34-Se-77  
-1.399 To 19.73 %



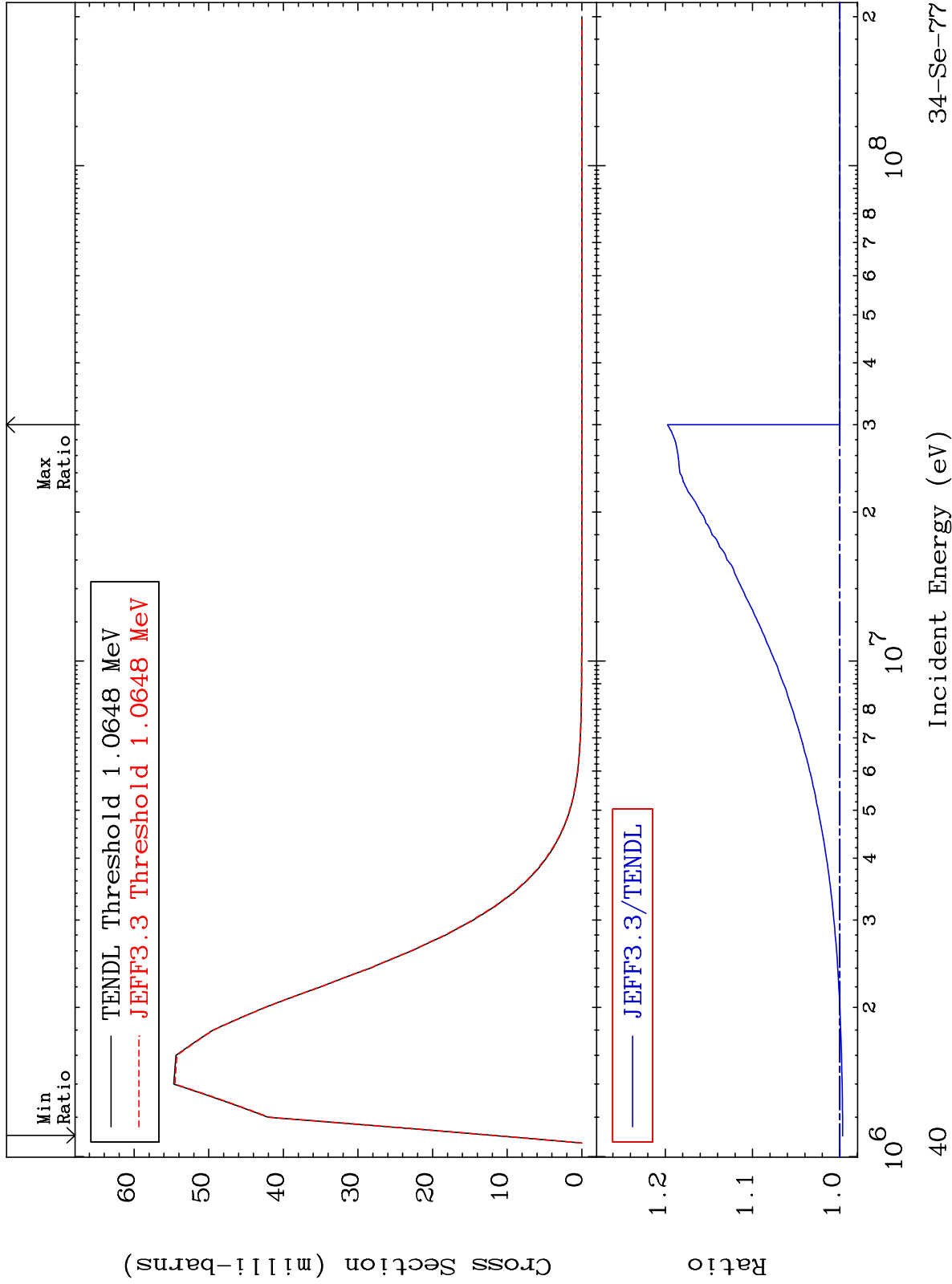
39



MAT 3434

MT= 71 (n,n') Level  
Cross Section

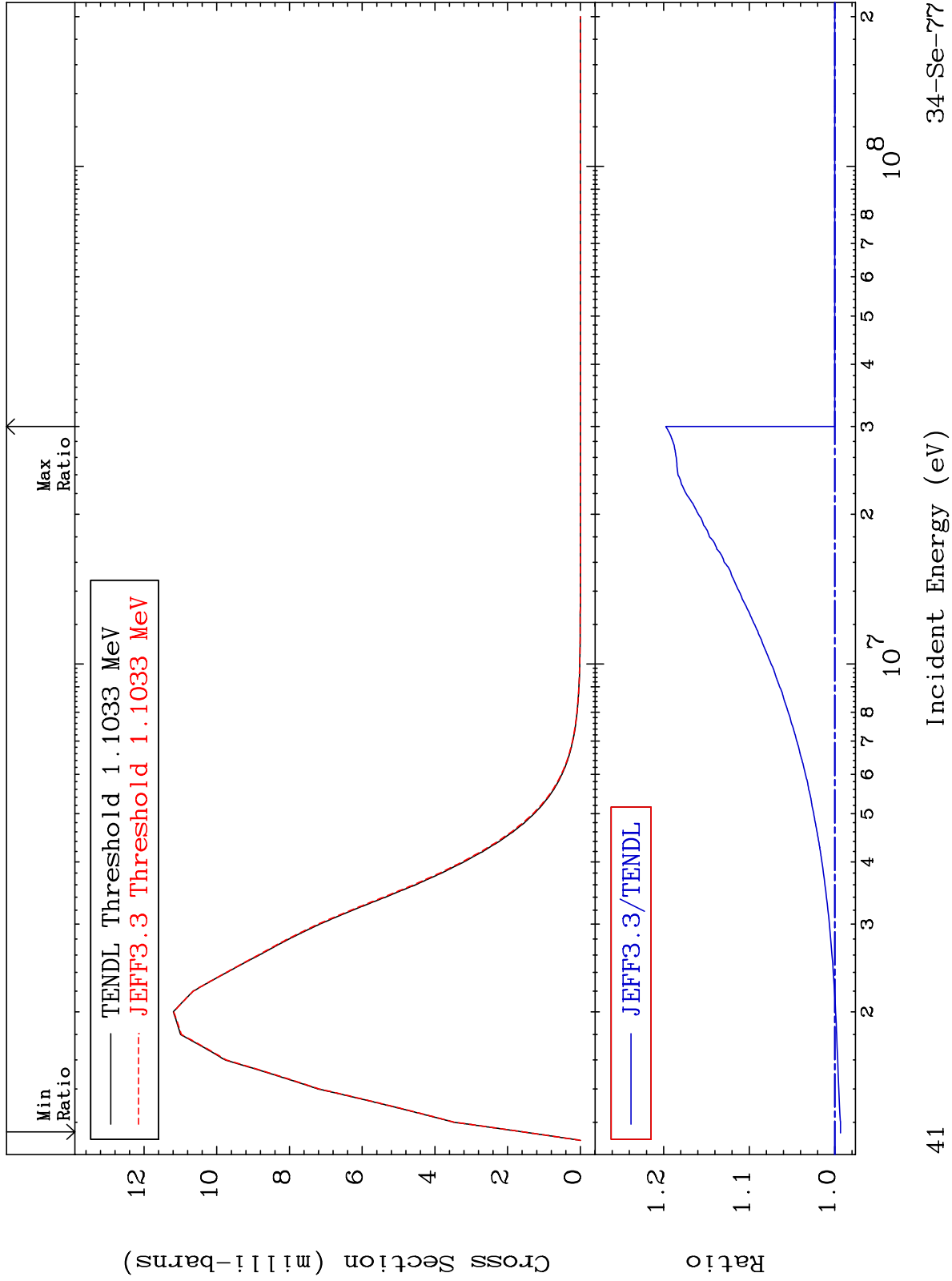
34-Se-77  
-0.336 To 19.74 %



MAT 3434

MT= 72 (n,n') Level  
Cross Section

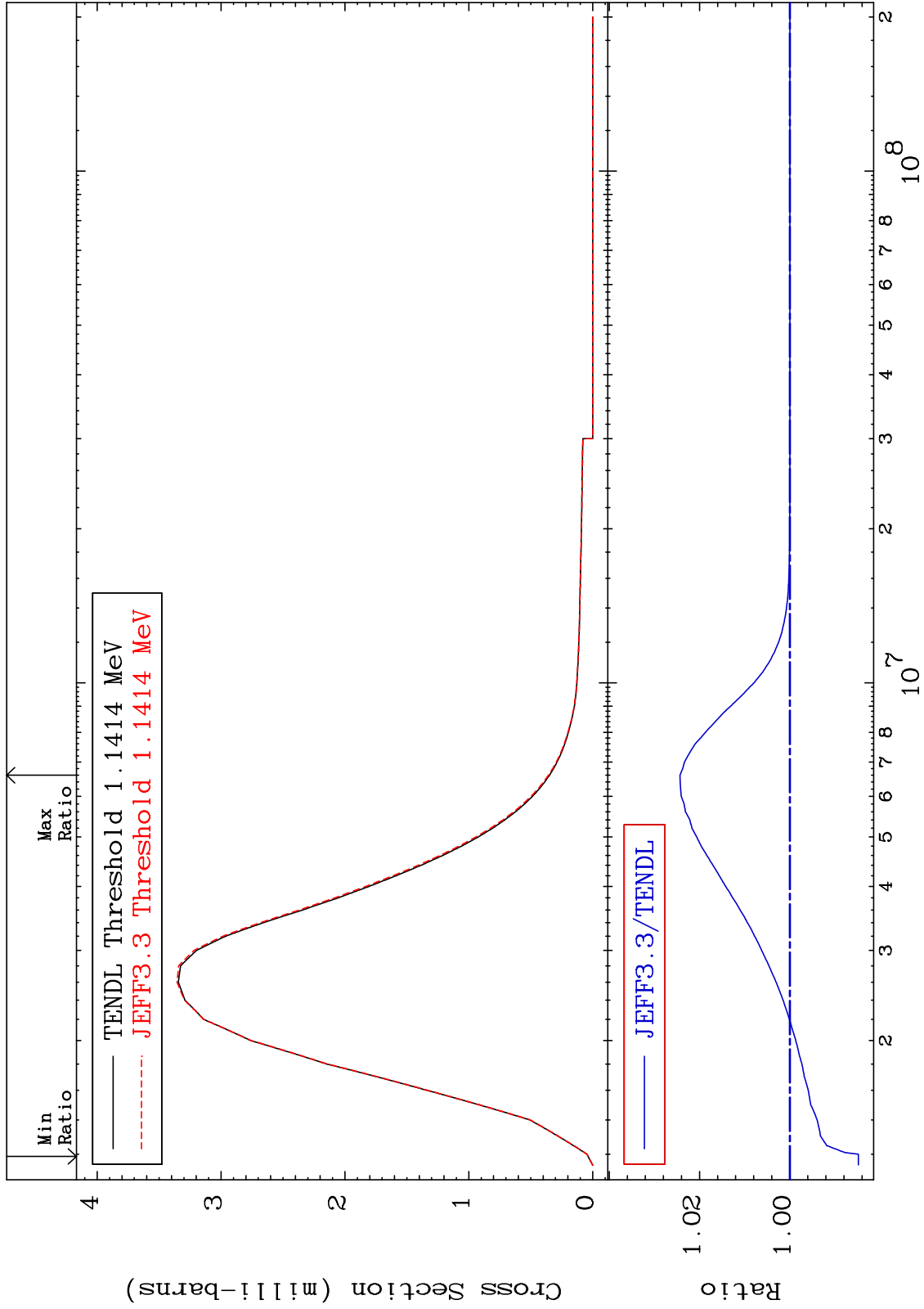
34-Se-77  
-0.670 To 19.74 %



MAT 3434

MT= 73 (n,n') Level  
Cross Section

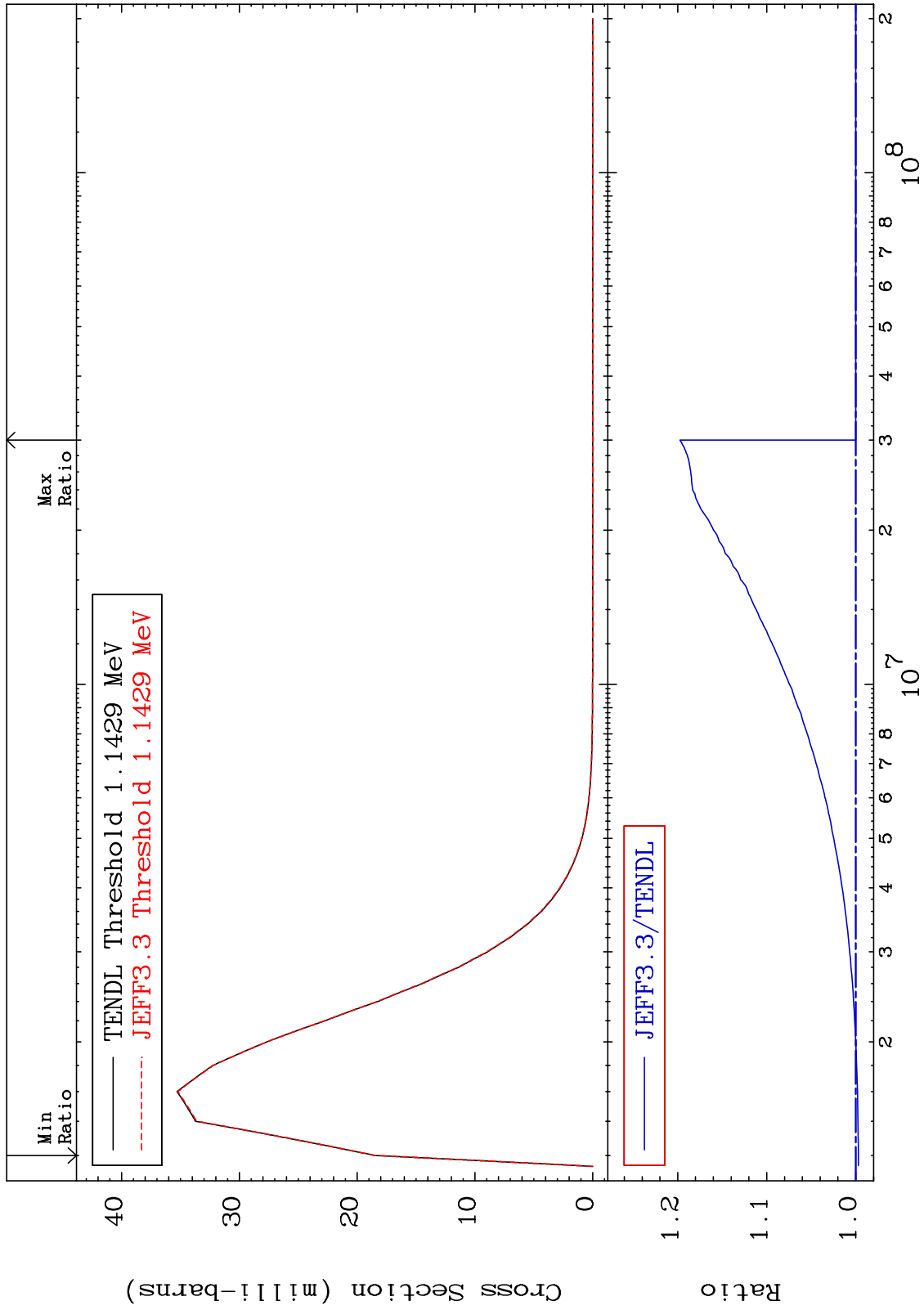
34-Se-77  
-1.520 To 2.432 %

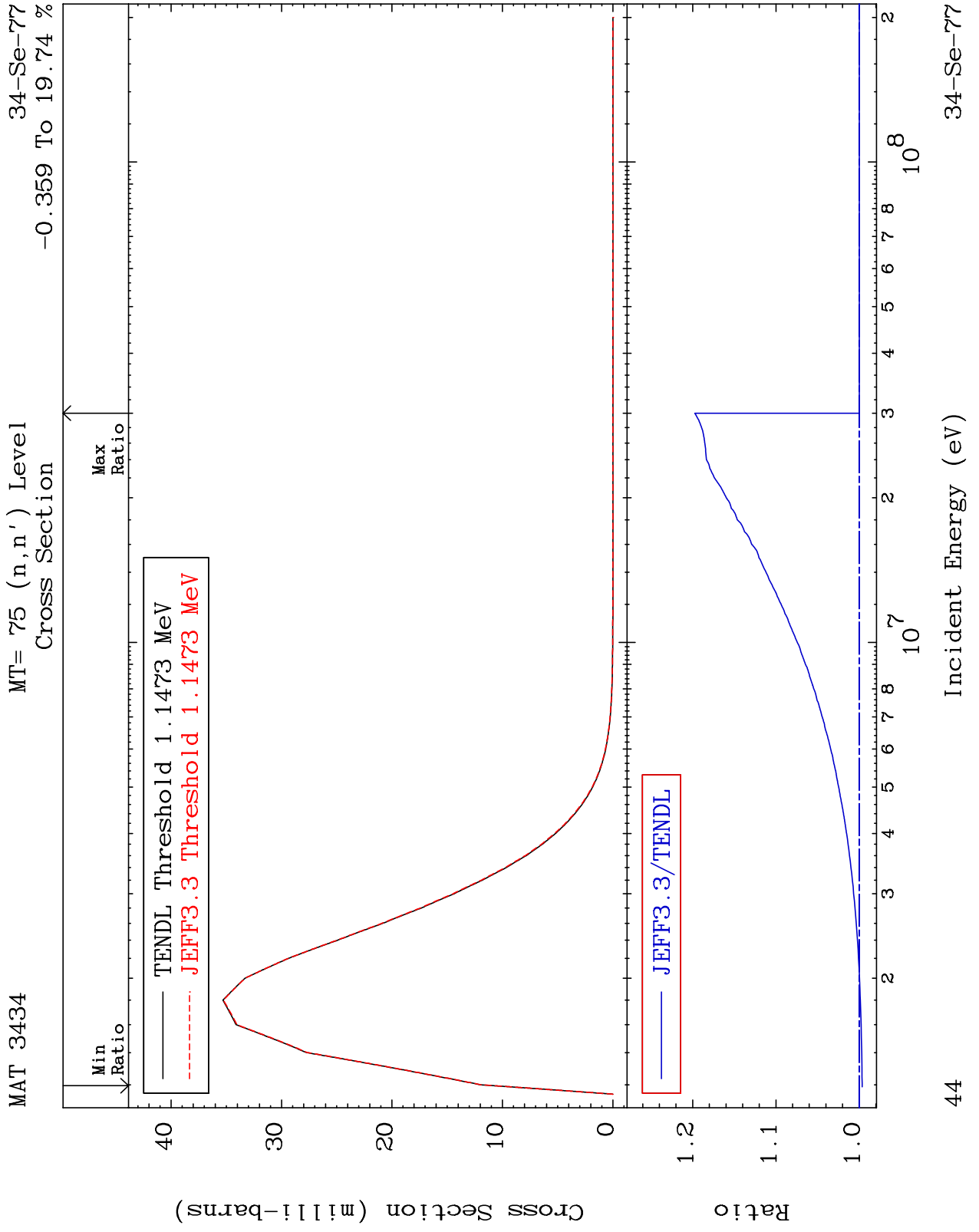


MAT 3434

MT= 74 (n,n') Level  
Cross Section

34-Se-77  
-0.301 To 19.74 %

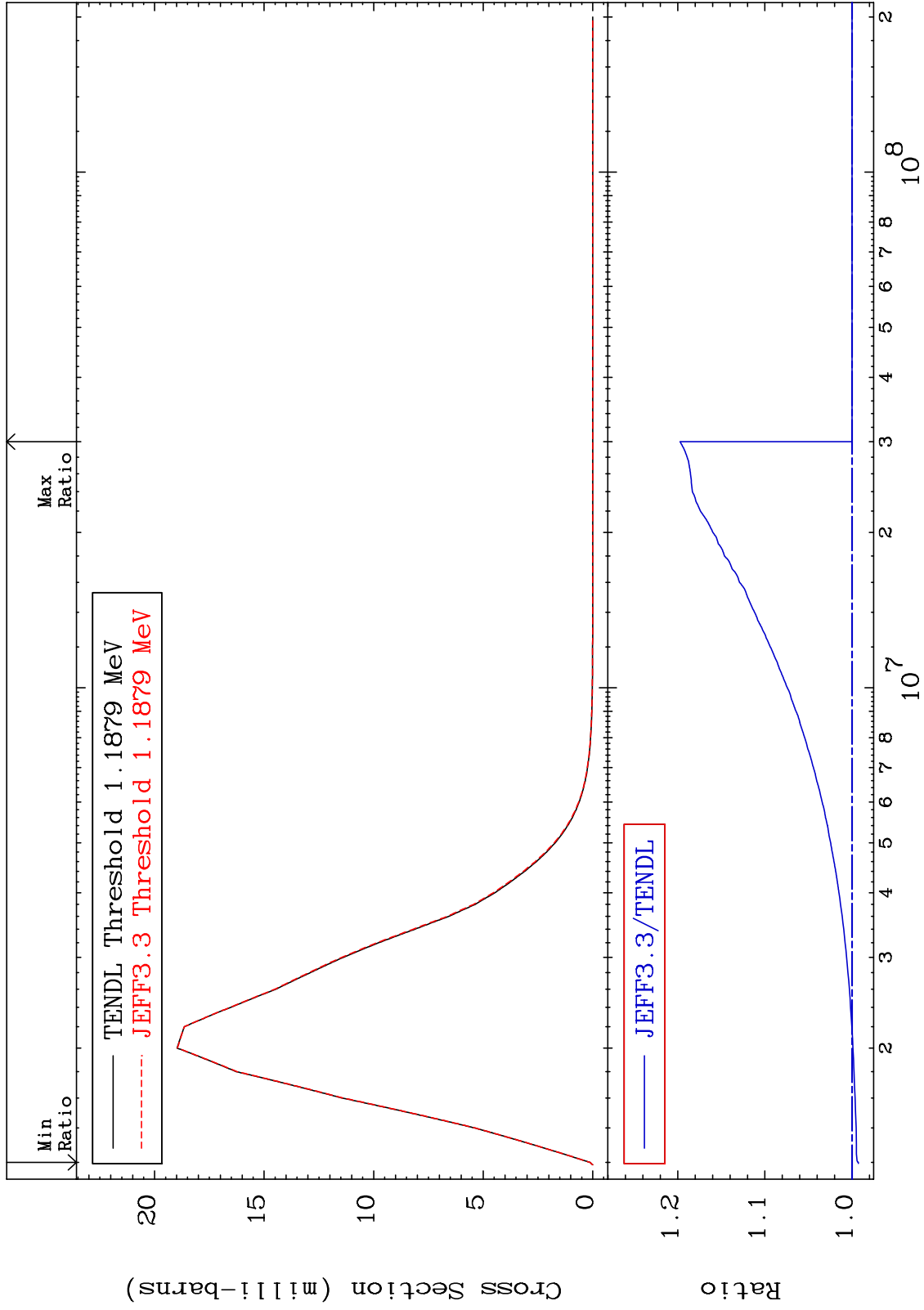




MAT 3434

MT= 76 (n,n') Level  
Cross Section

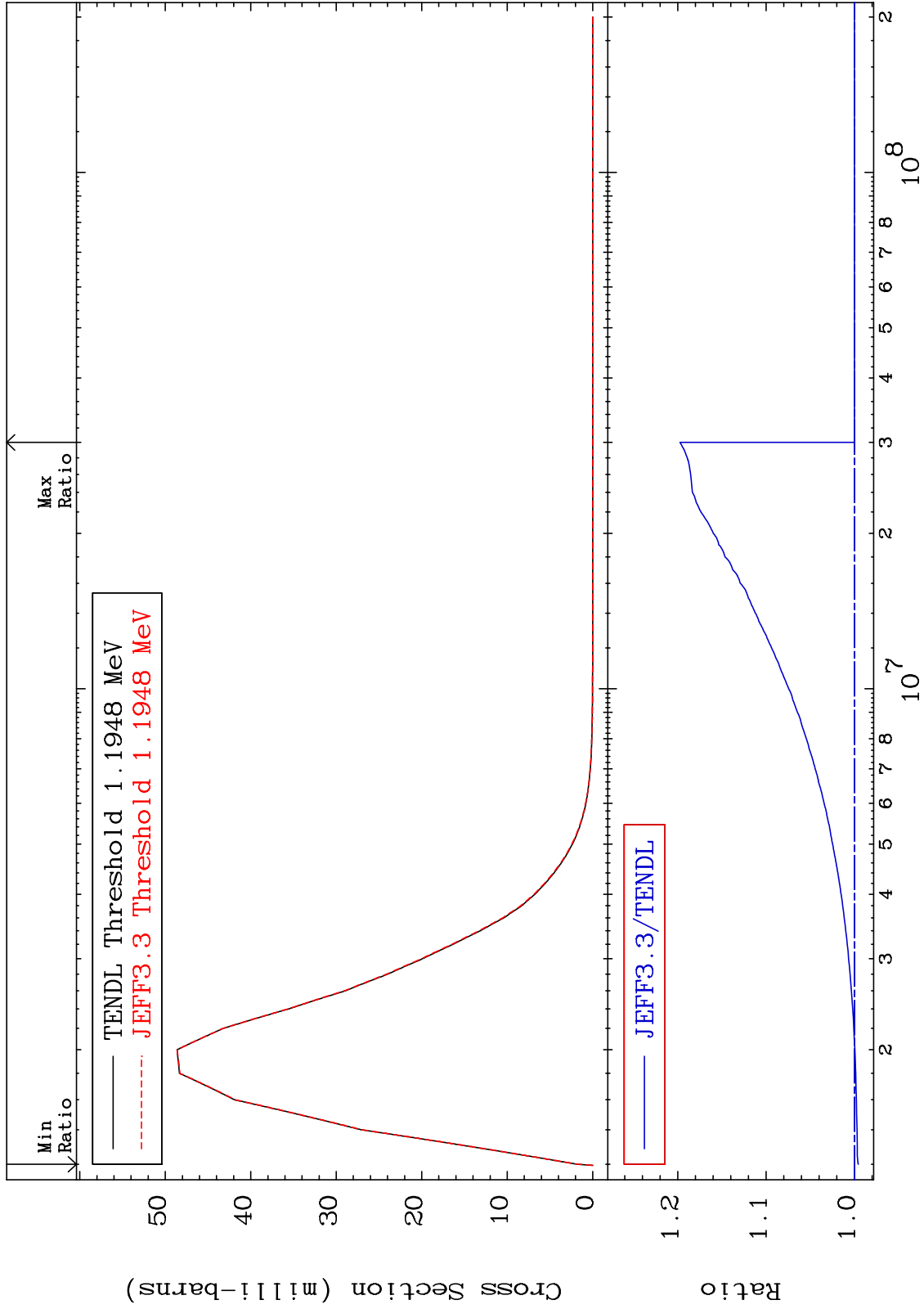
34-Se-77  
-0.725 To 19.74 %



MAT 3434

MT= 77 (n,n') Level  
Cross Section

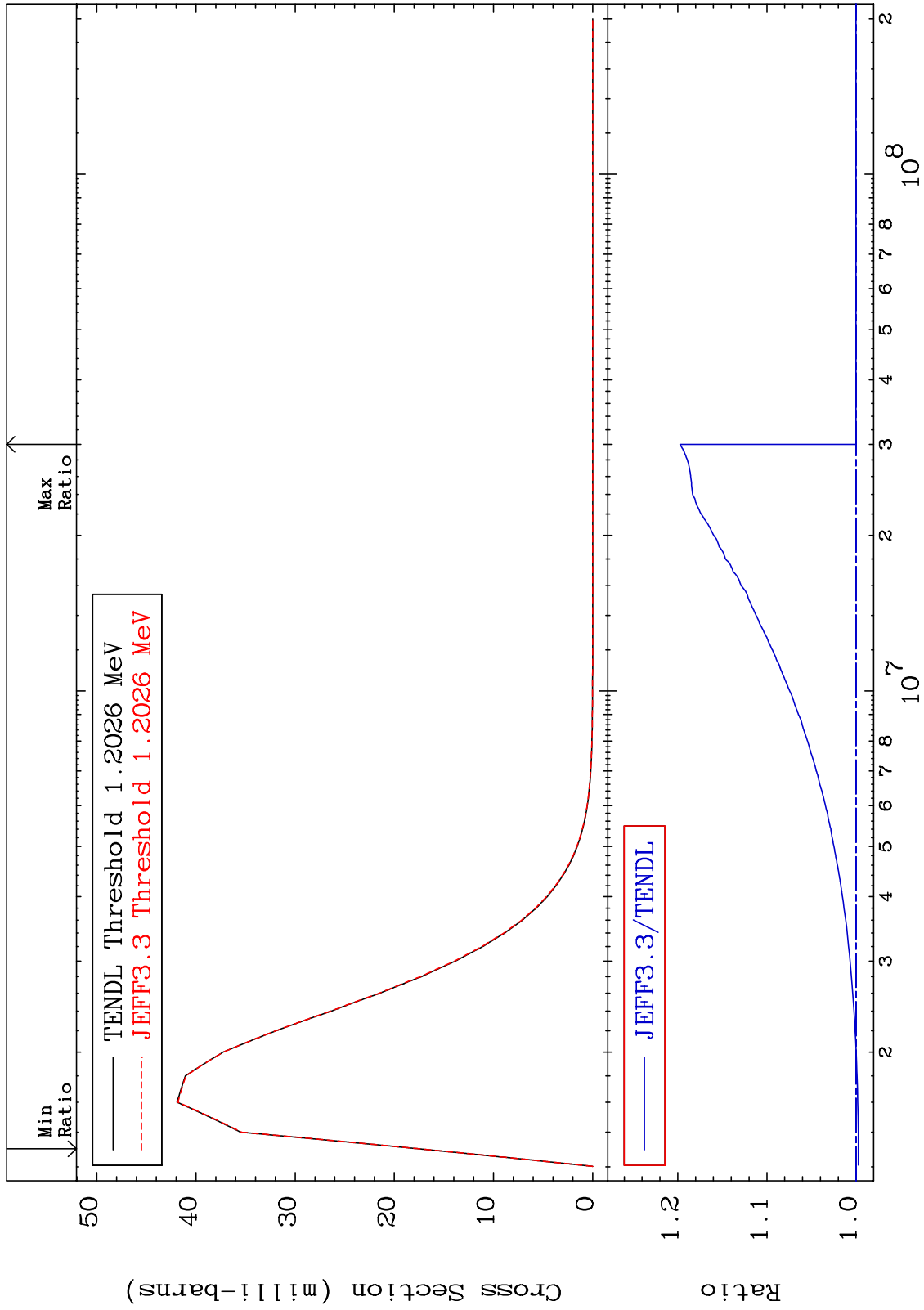
34-Se-77  
-0.443 To 19.74 %



MAT 3434

MT= 78 (n,n') Level  
Cross Section

34-Se-77  
-0.267 To 19.74 %

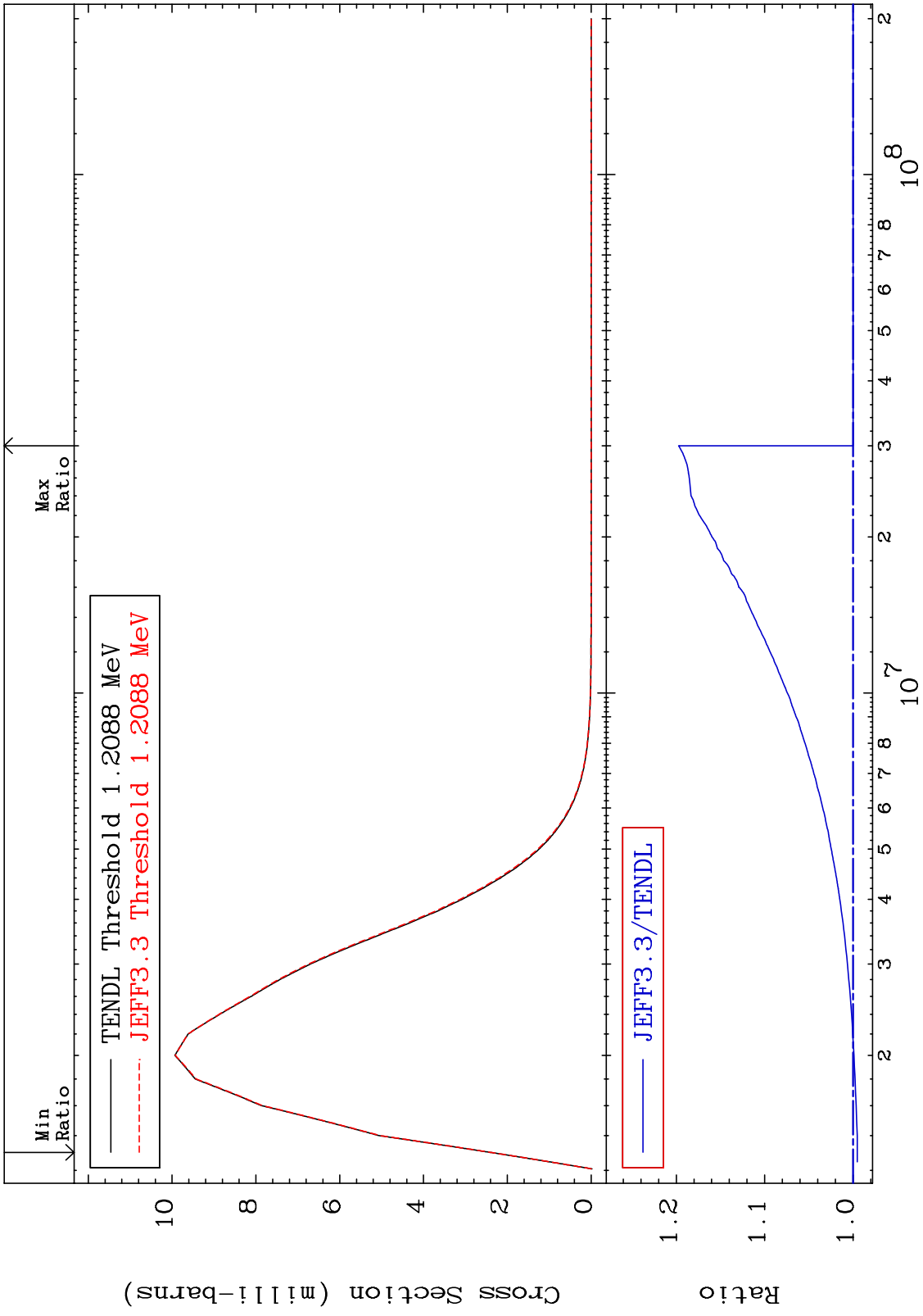




MAT 3434

MT= 79 (n,n') Level  
Cross Section

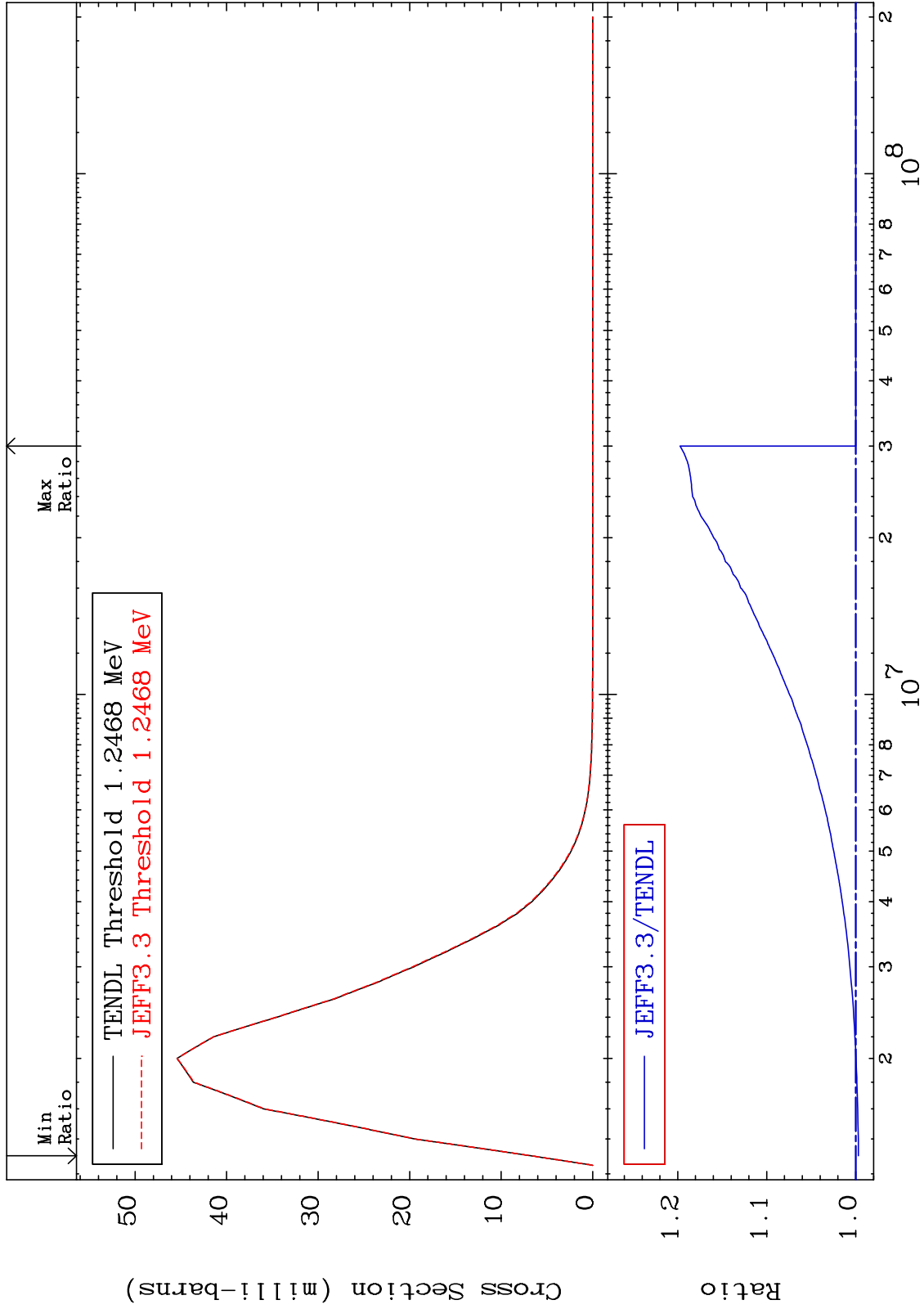
34-Se-77  
-0.478 To 19.74 %



MAT 3434

MT= 80 (n,n') Level  
Cross Section

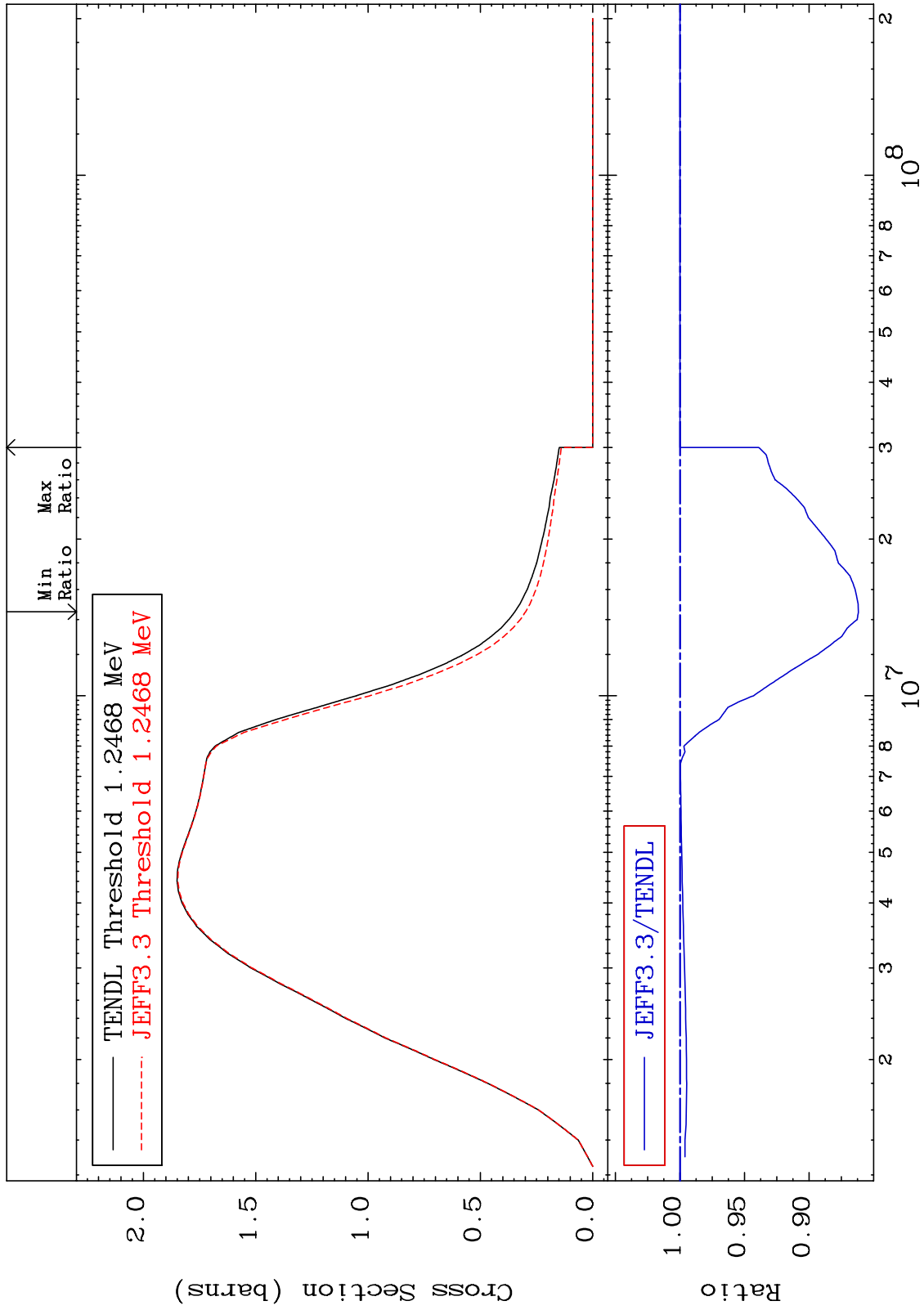
34-Se-77  
-0.301 To 19.74 %



MAT 3434

(n, n') Continuum  
Cross Section

34-Se-77  
-13.81 To 0.000 %



50

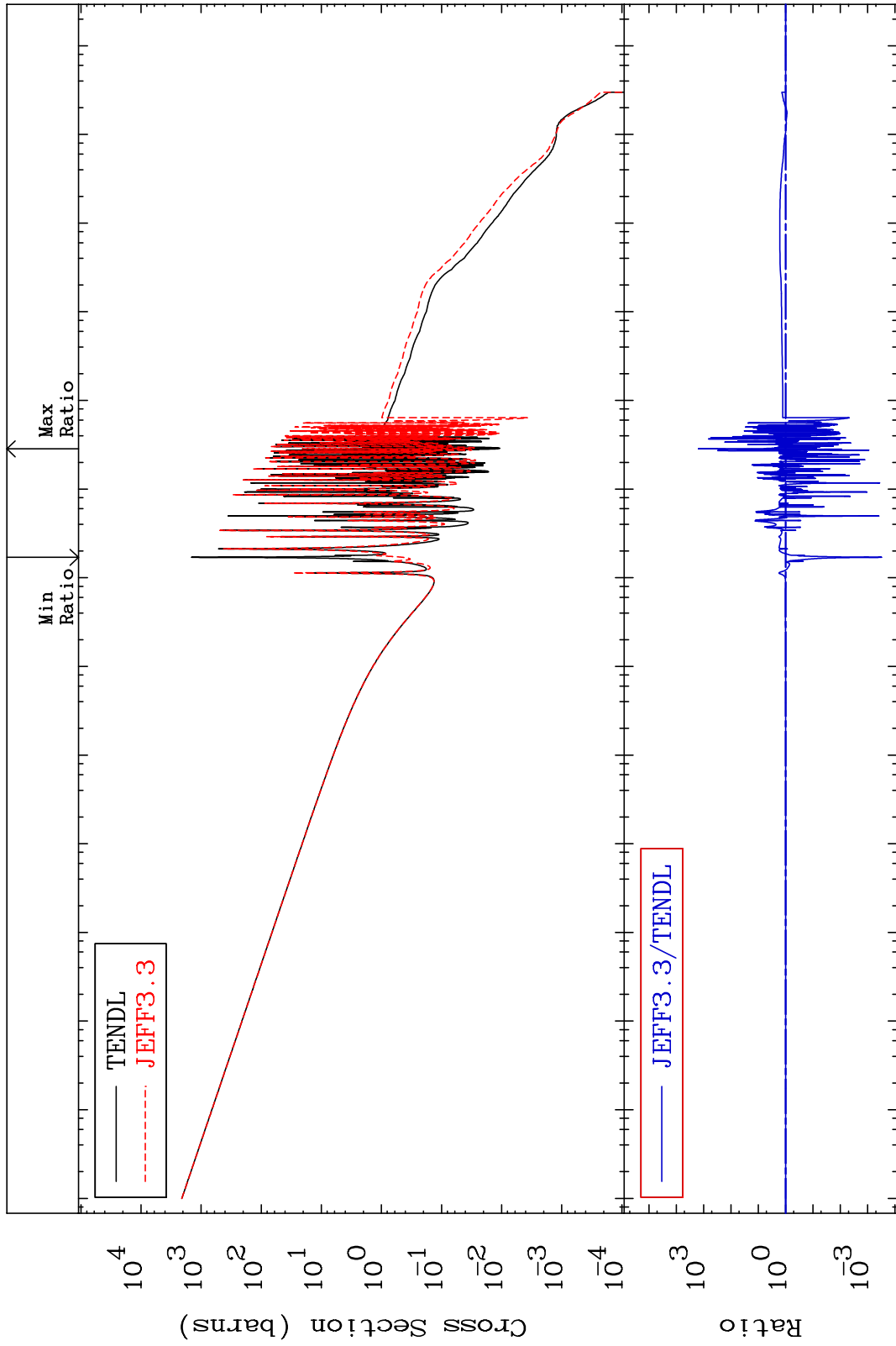
Incident Energy (eV)

34-Se-77

MAT 3434

(n,  $\gamma$ )  
Cross Section

34-Se-77  
-99.97 To 9999. %



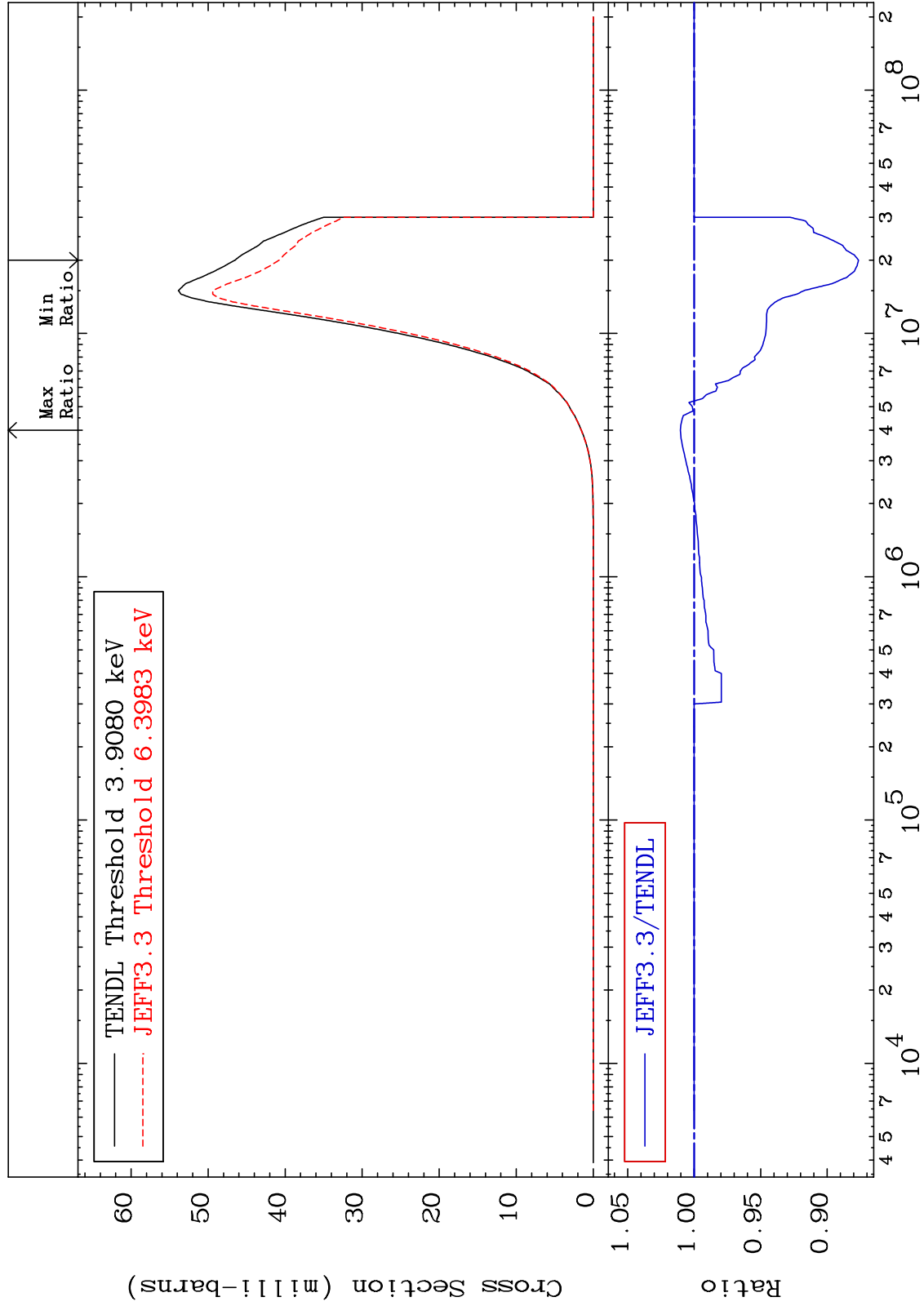
MAT 3434

(n,p)

<sup>34</sup>Se-77

Cross Section

-12.36 To 1.034 %



Incident Energy (eV)

<sup>34</sup>Se-77

52

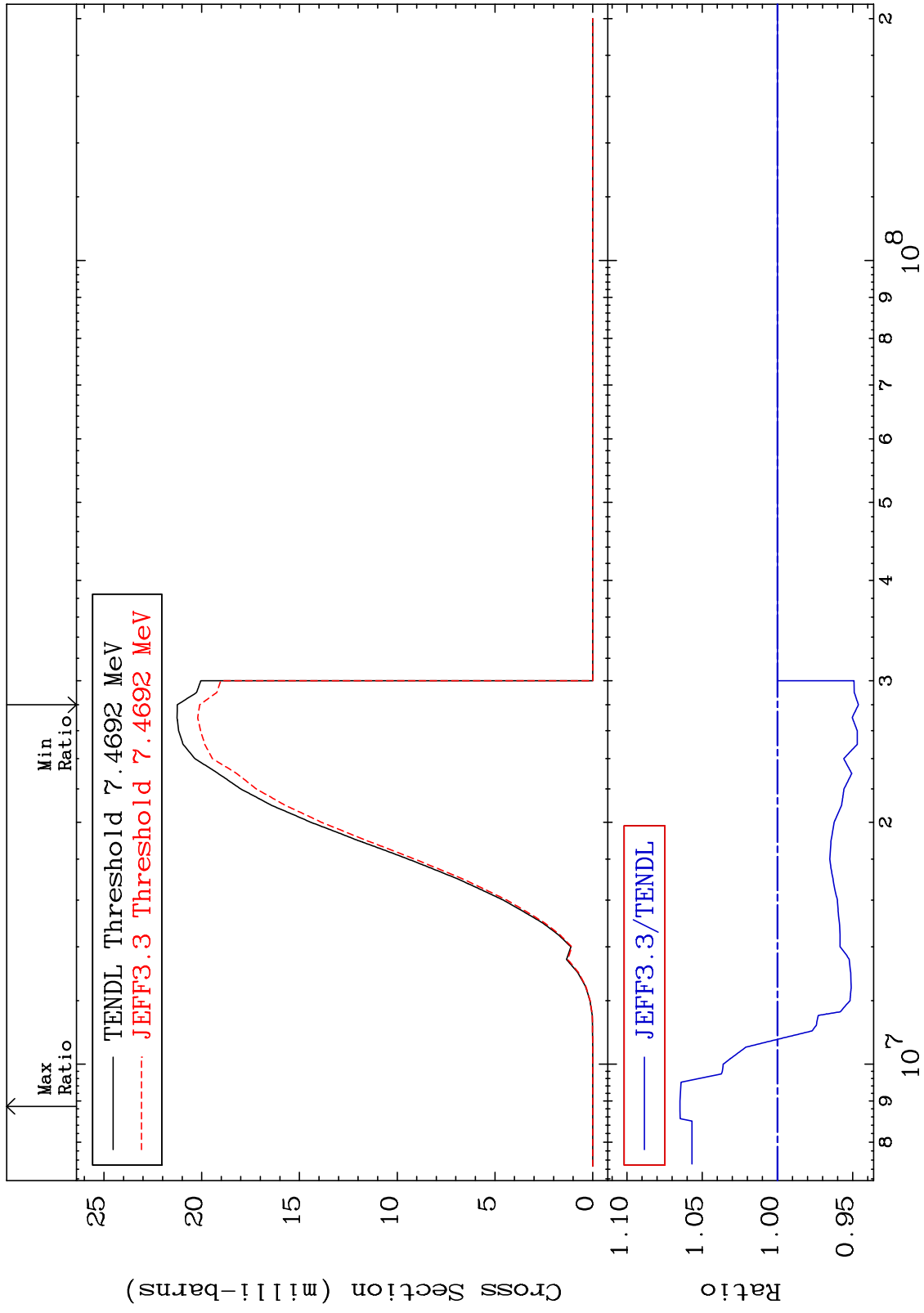
MAT 3434

(n, d)

<sup>34</sup>Se-77

Cross Section

-5.380 To 6.479 %



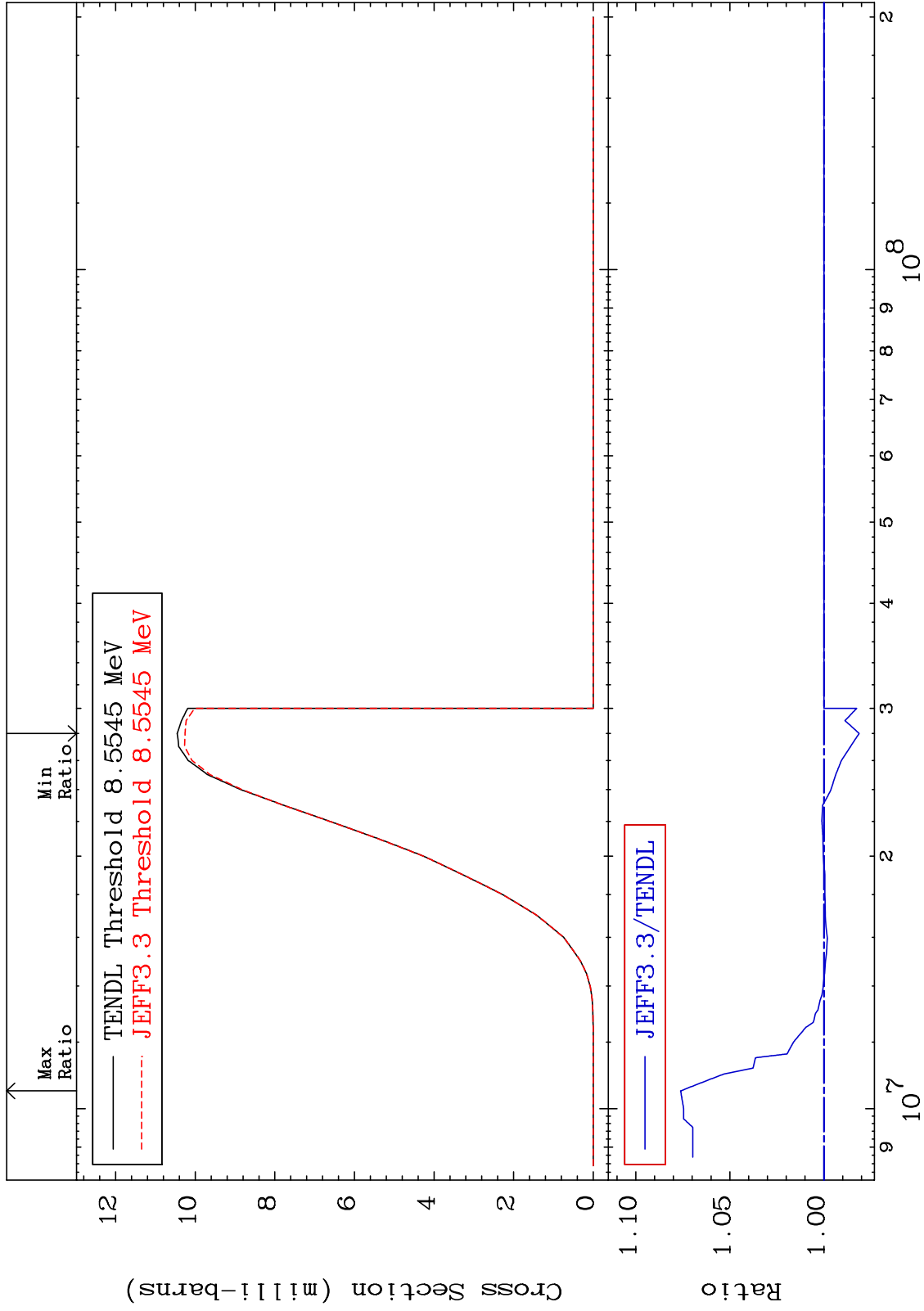
MAT 3434

(n, t)

<sup>34</sup>Se-77

Cross Section

-1.874 To 7.615 %



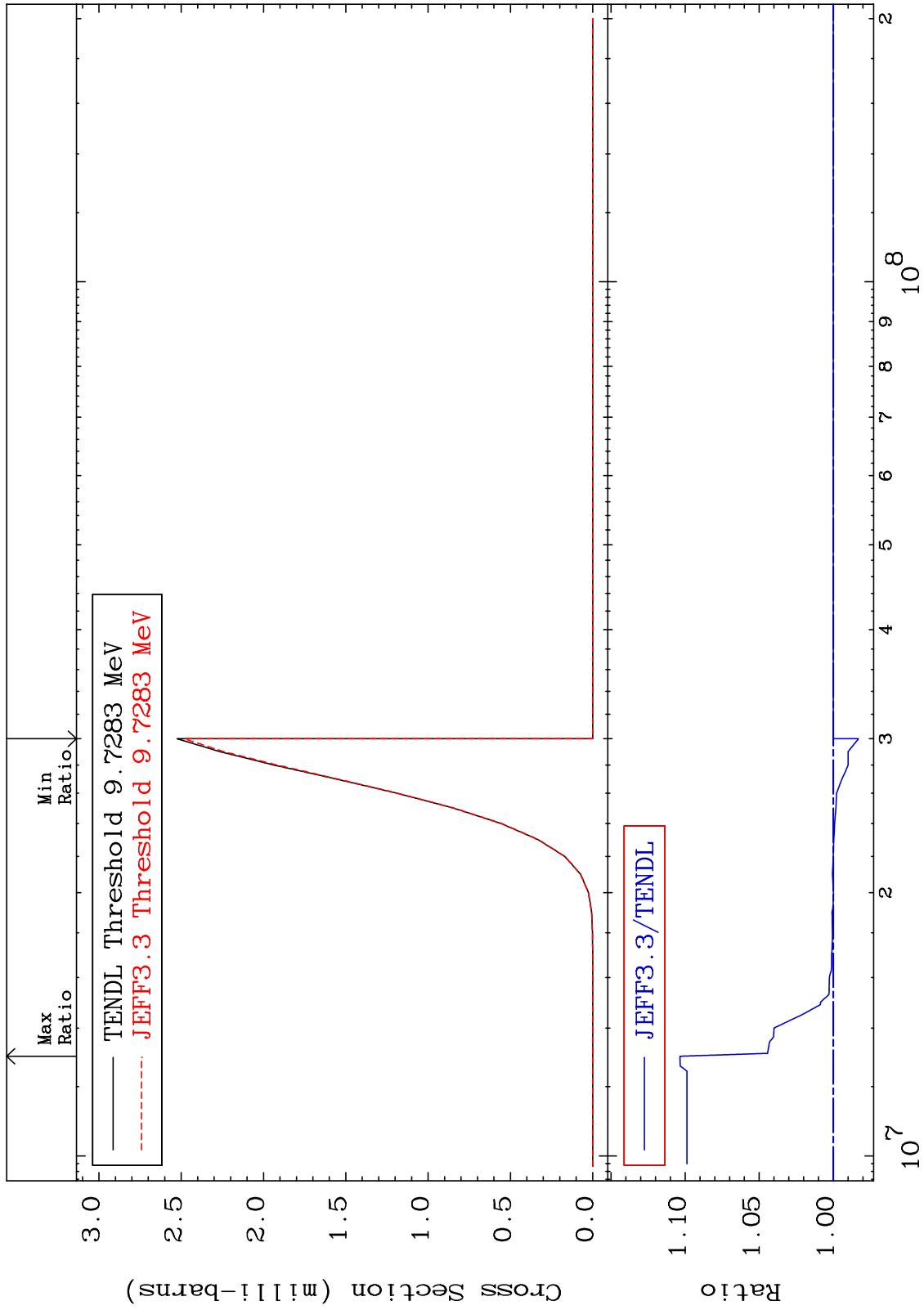
MAT 3434

(n, He-3)

<sup>34</sup>Se-77

Cross Section

-1.699 To 10.35 %



Incident Energy (eV)

<sup>34</sup>Se-77

55



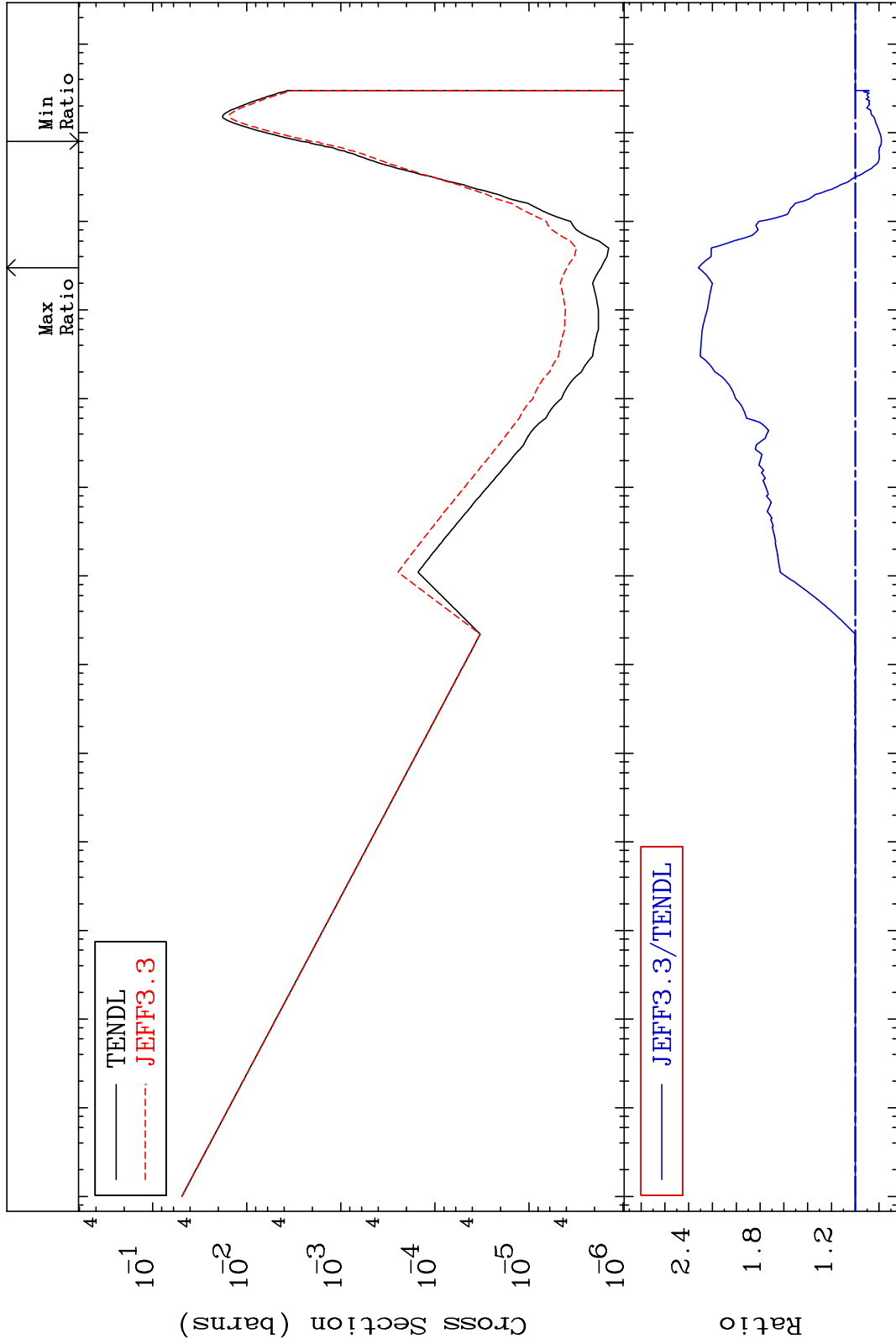
MAT 3434

(n,  $\alpha$ )

<sup>34</sup>Se-77

Cross Section

-22.10 To 131.9 %



Incident Energy (eV)

<sup>34</sup>Se-77

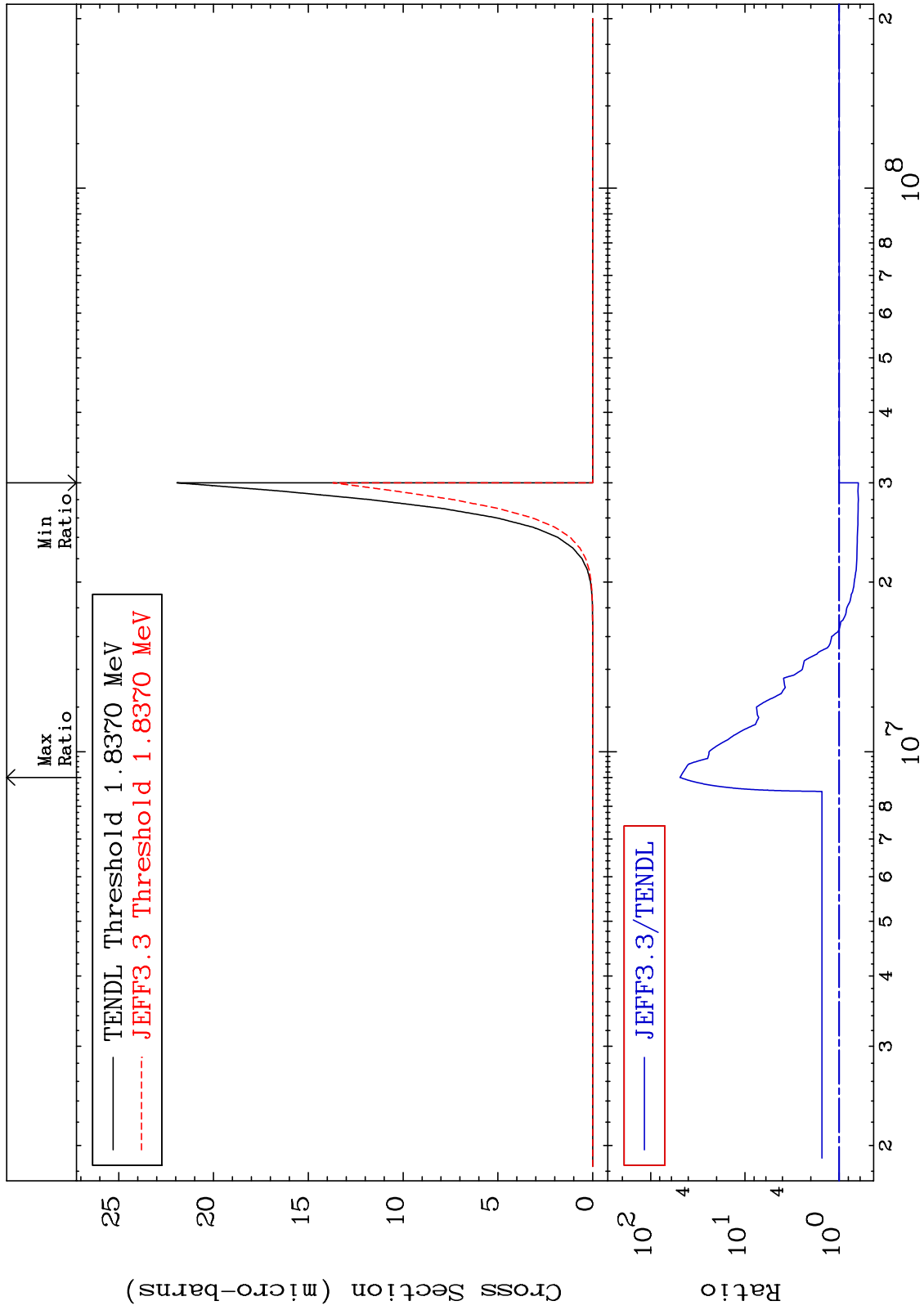
MAT 3434

(n, 2α)

<sup>34</sup>Se-77

-37.54 To 4779. %

Cross Section



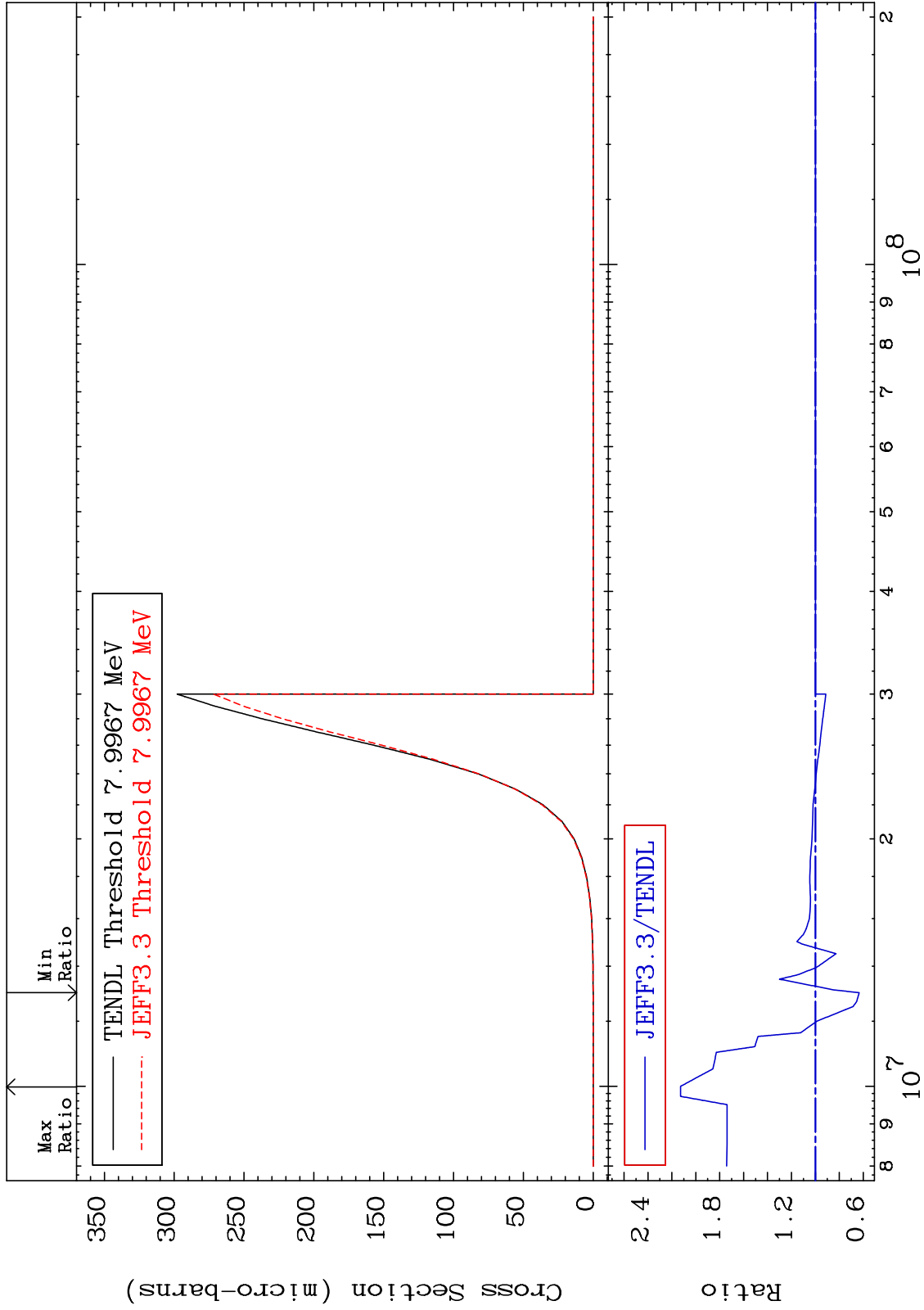
MAT 3434

(n,2p)

<sup>34</sup>Se-77

Cross Section

-36.62 To 112.7 %



58

Incident Energy (eV)

<sup>34</sup>Se-77

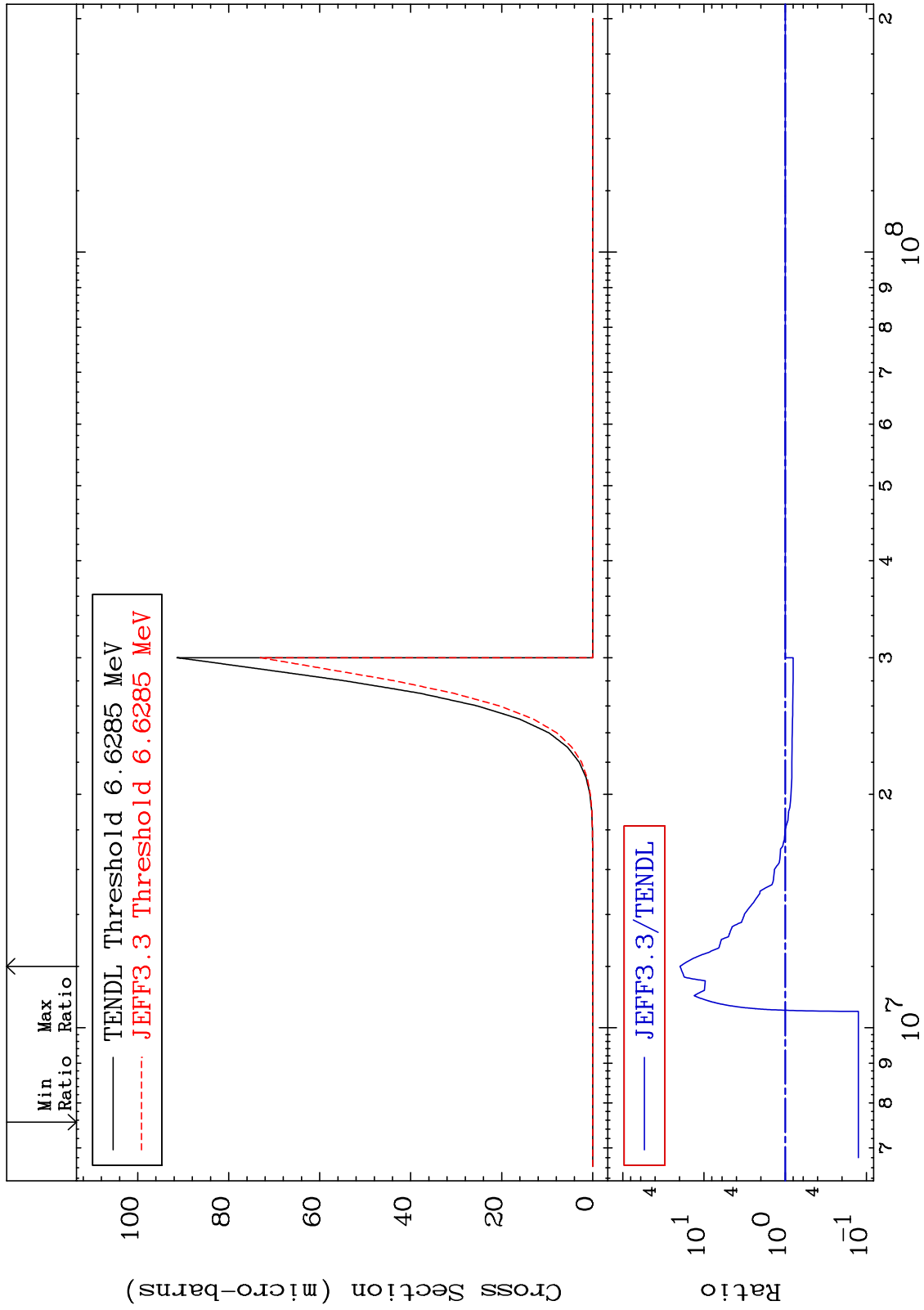
MAT 3434

(n,p)  $\alpha$

<sup>34</sup>Se-77

Cross Section

-87.43 To 1874. %



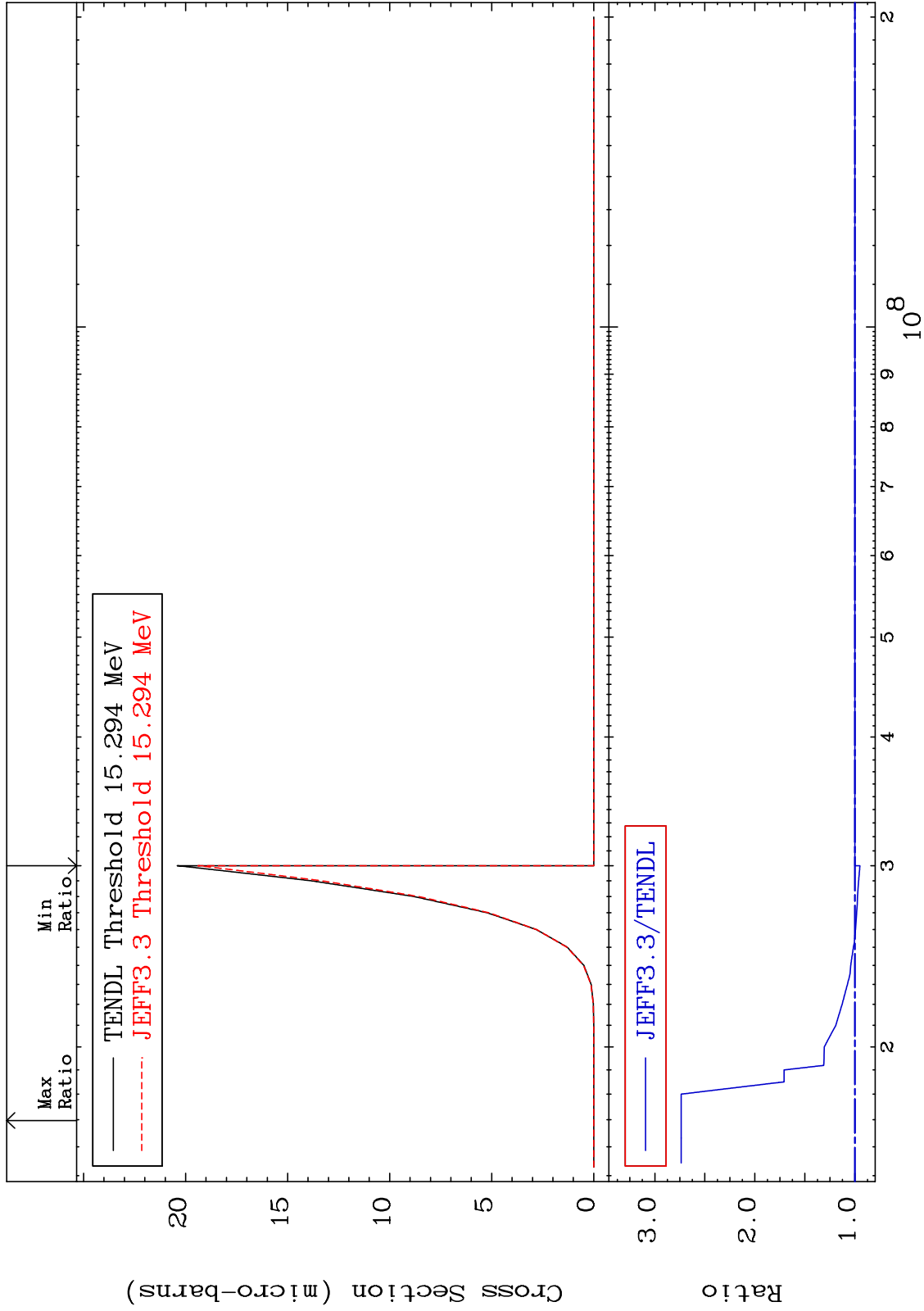
MAT 3434

(n,p) d

<sup>34</sup>Se-77

Cross Section

-5.003 To 173.6 %



60

Incident Energy (eV)

<sup>34</sup>Se-77

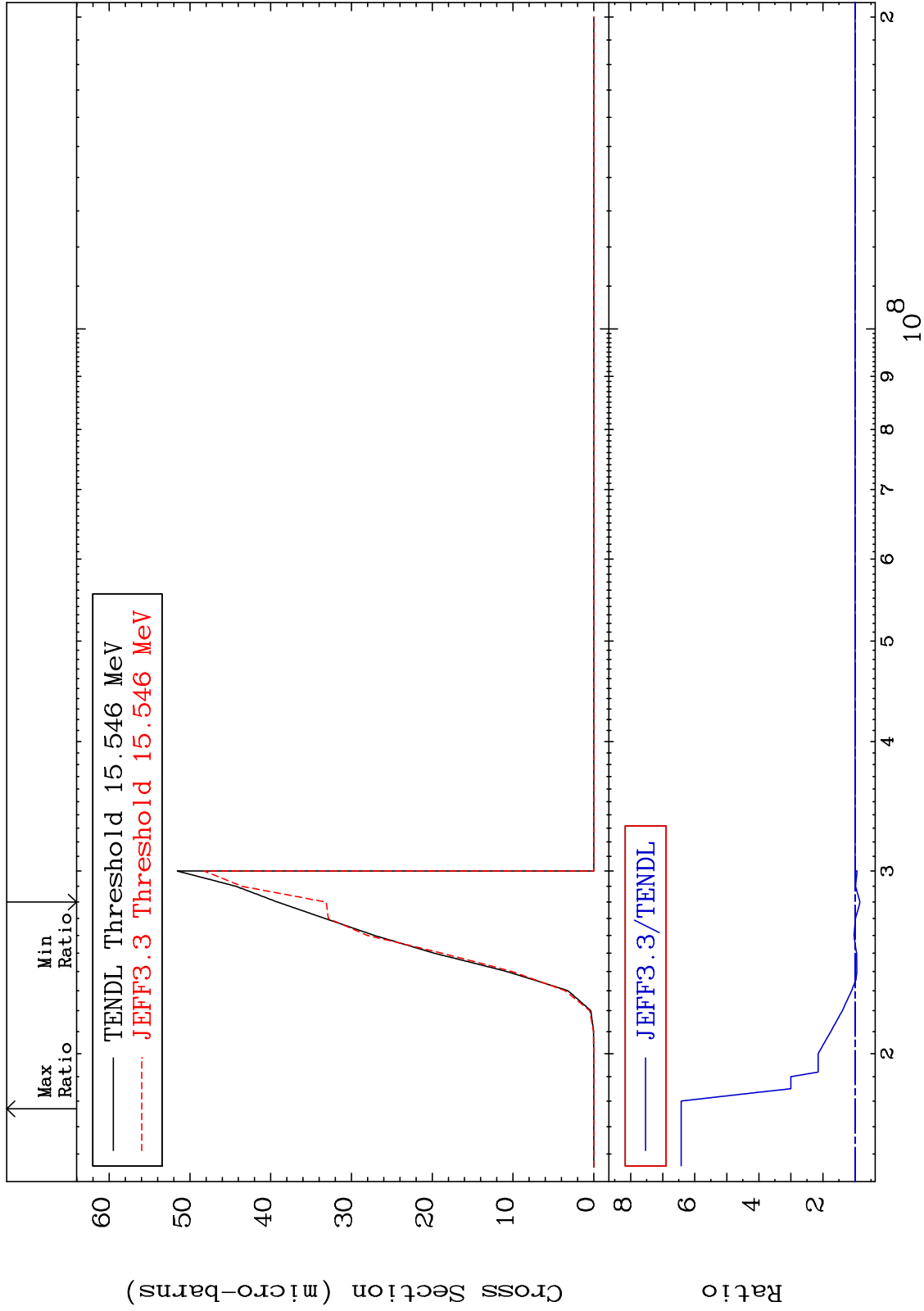
MAT 3434

(n,p) t

<sup>34</sup>Se-77

Cross Section

-15.35 To 542.3 %



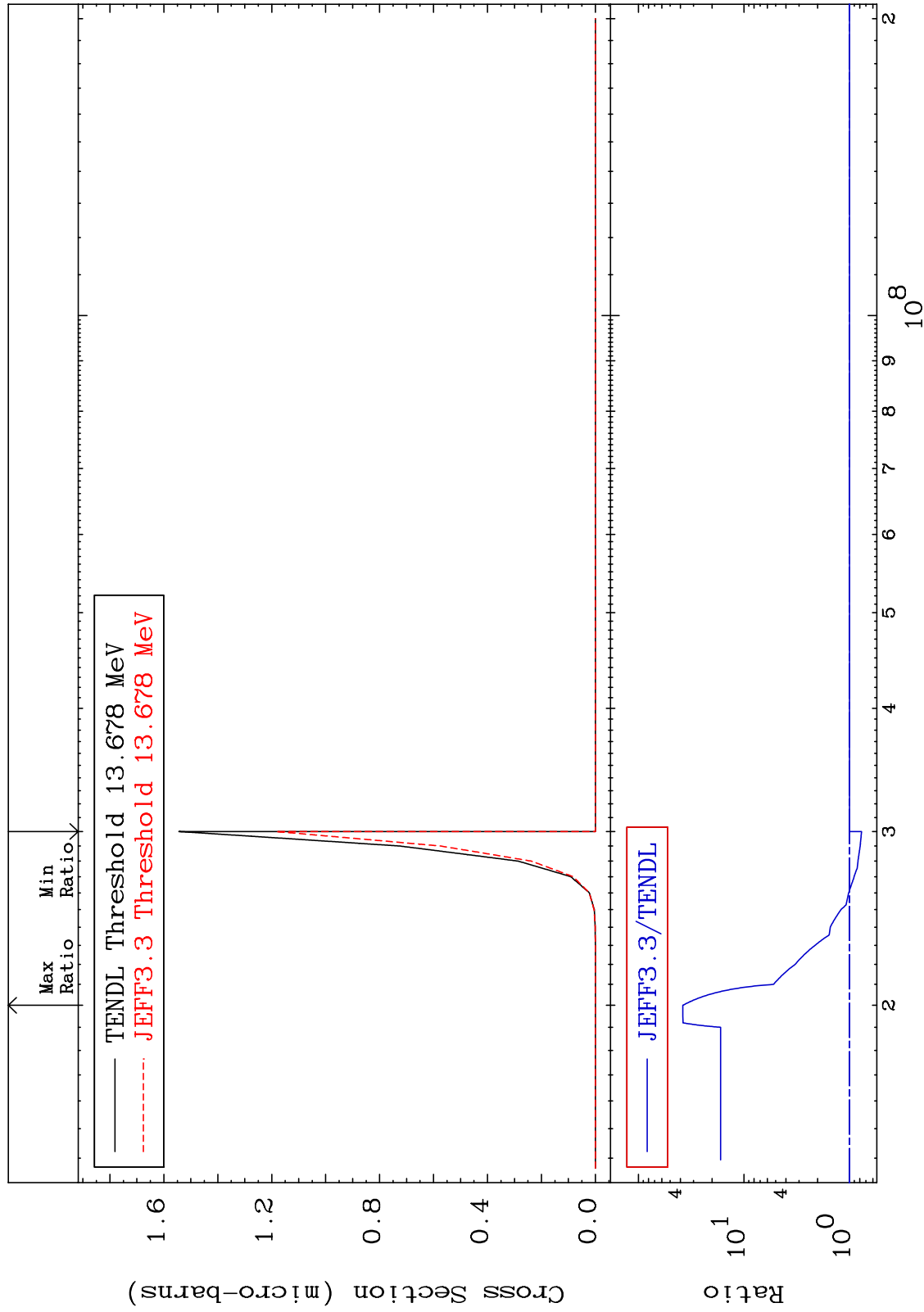
MAT 3434

(n,d)  $\alpha$

<sup>34</sup>Se-77

Cross Section

-23.24 To 3687. %



62

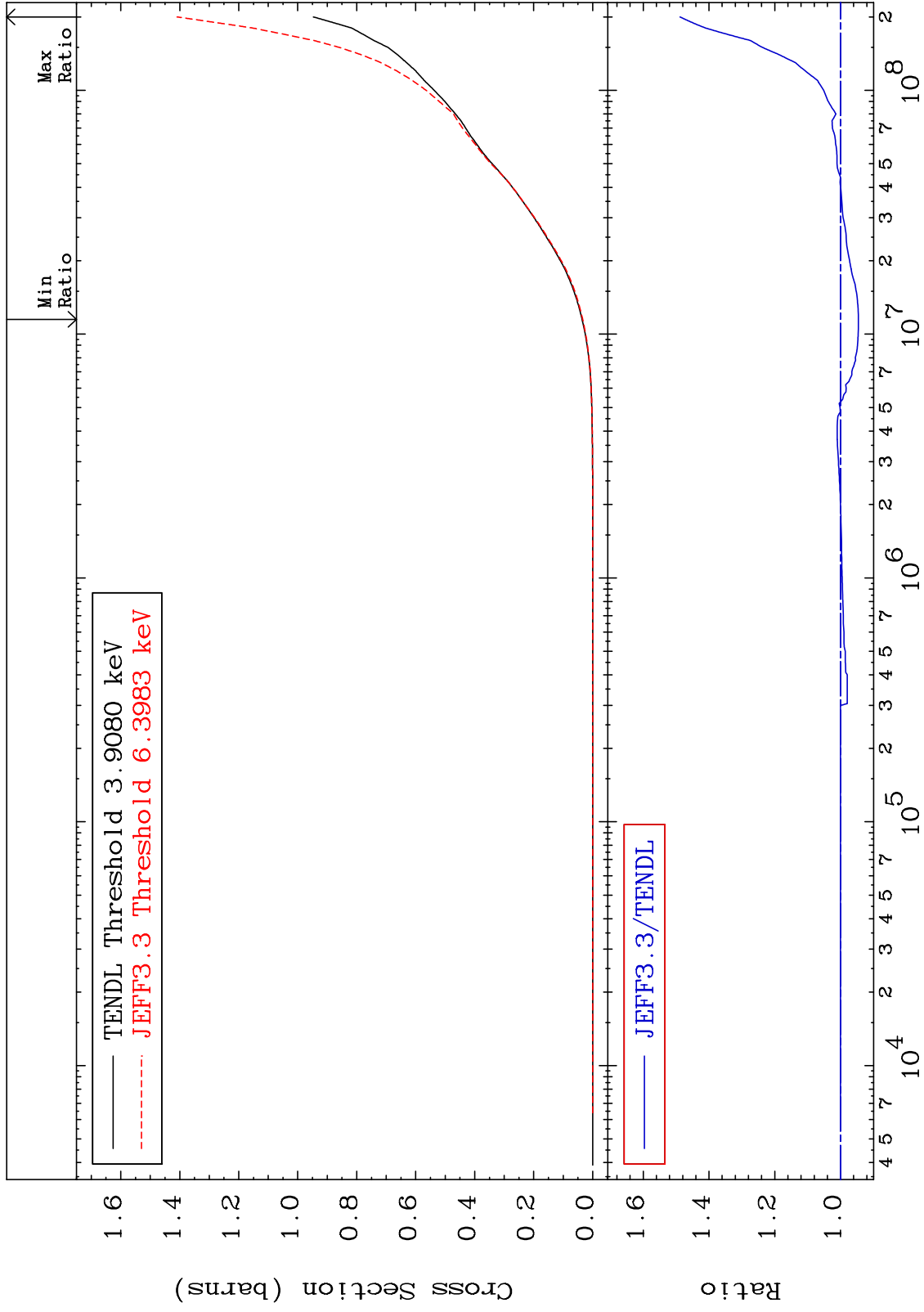
Incident Energy (eV)

<sup>34</sup>Se-77

MAT 3434

Hydrogen Production  
Cross Section

34-Se-77  
-5.446 To 48.81 %

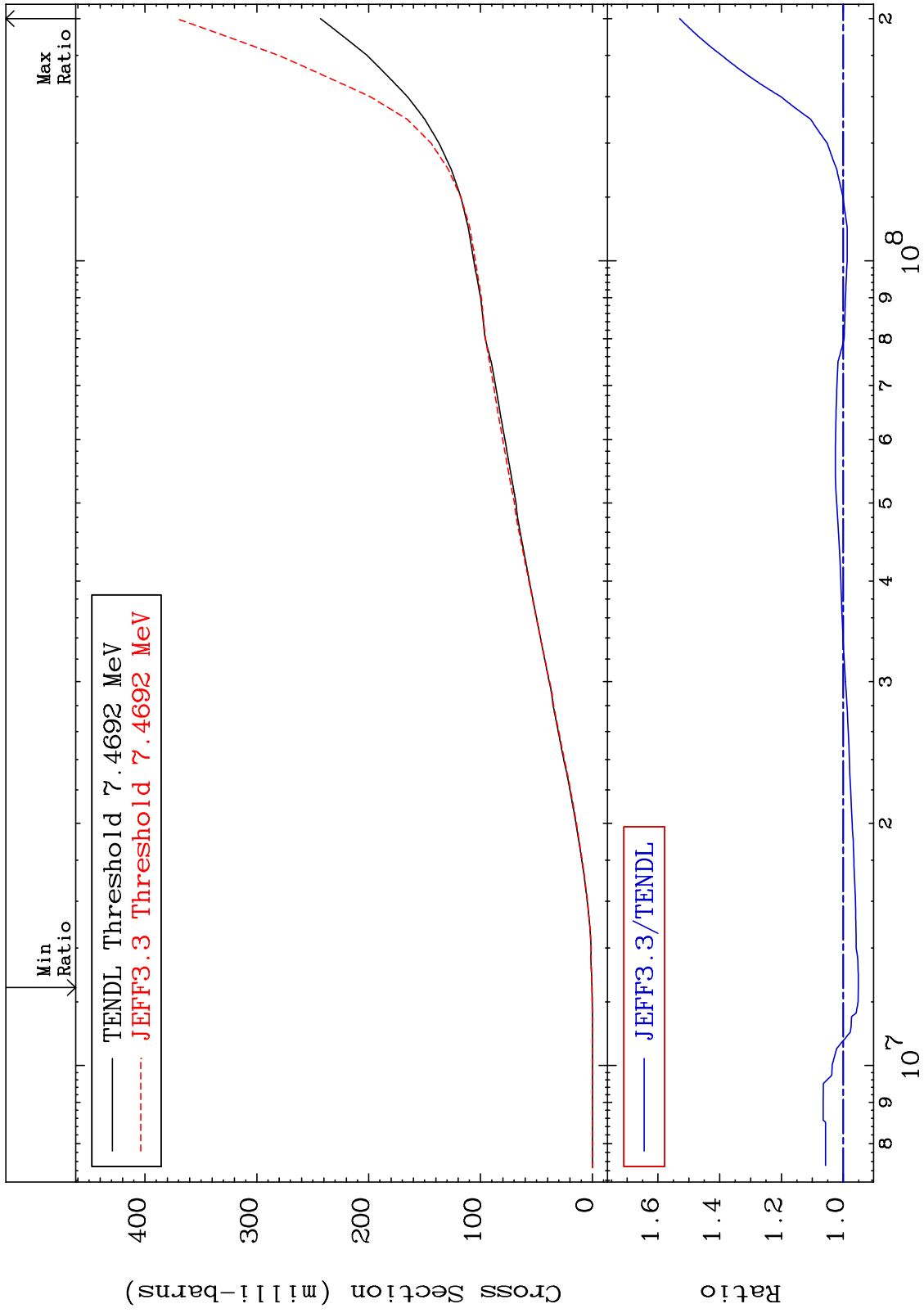




MAT 3434

Deuterium Production  
Cross Section

$^{34}\text{Se-77}$   
-4.904 To 52.92 %



64

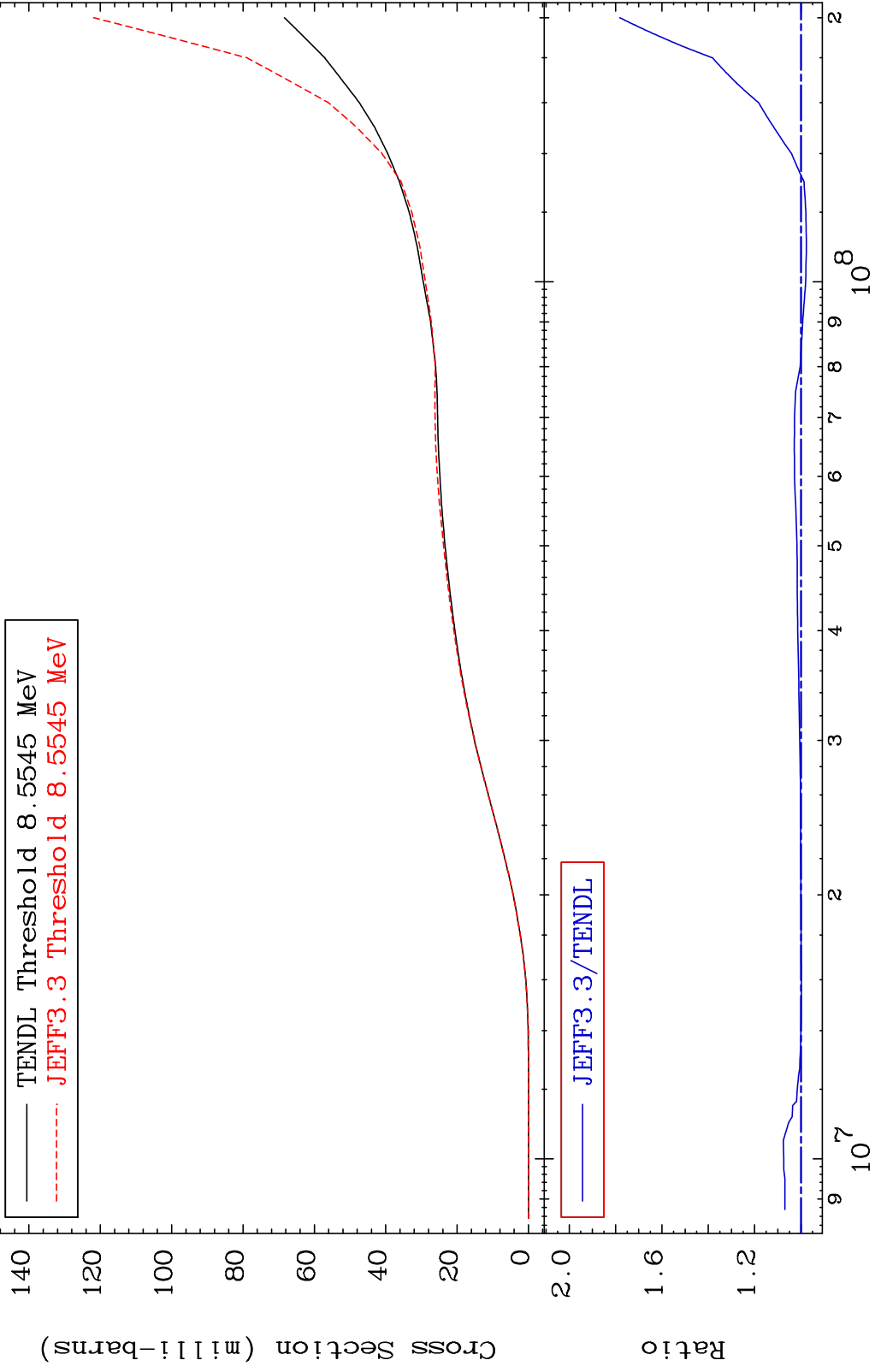
Incident Energy (eV)

$^{34}\text{Se-77}$

MAT 3434

Tritium Production  
Cross Section

$^{34}\text{Se-77}$   
-2.326 To 78.18 %



65

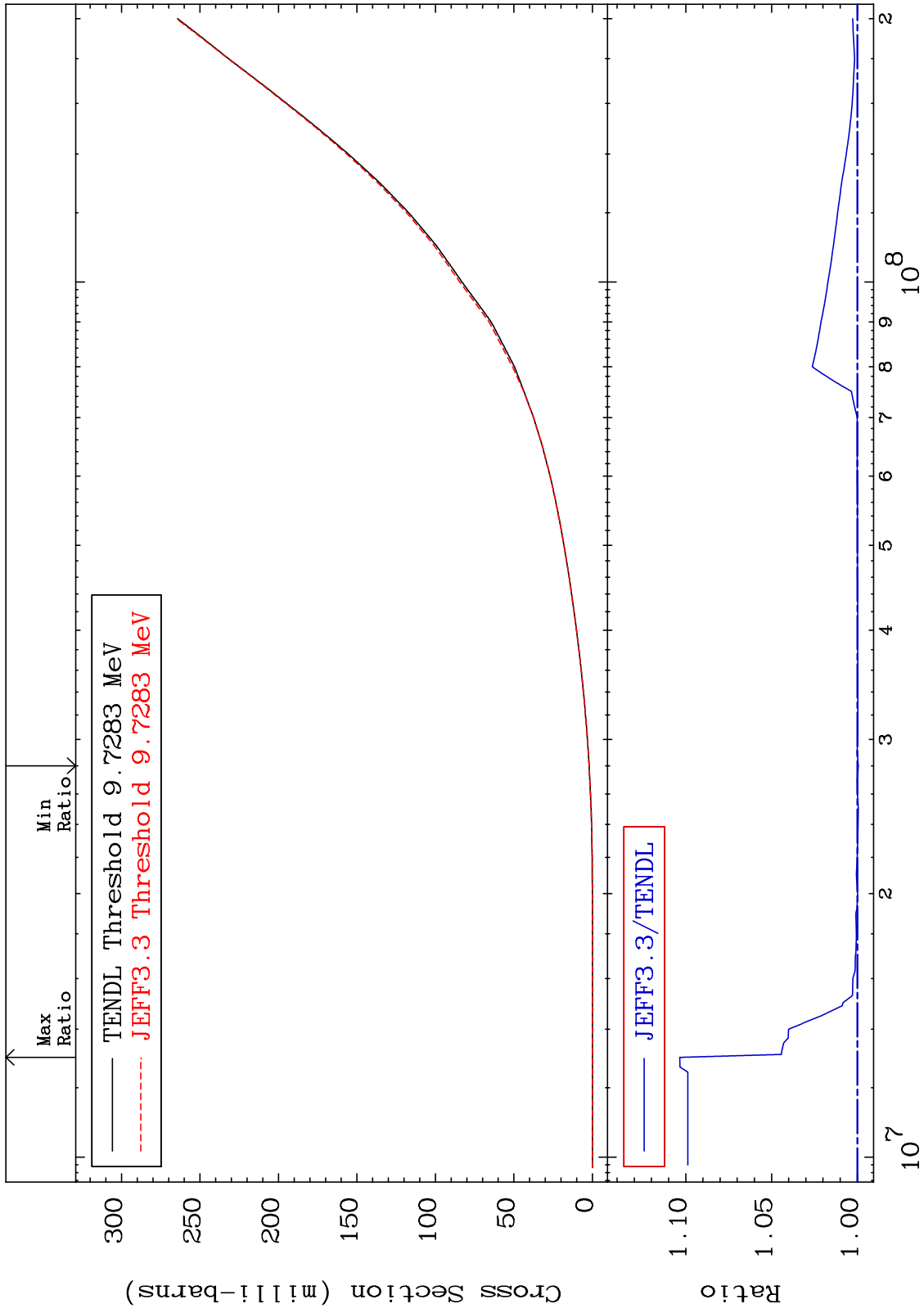
Incident Energy (eV)

$^{34}\text{Se-77}$

MAT 3434

He-3 Production  
Cross Section

34-Se-77  
-0.059 To 10.35 %



66

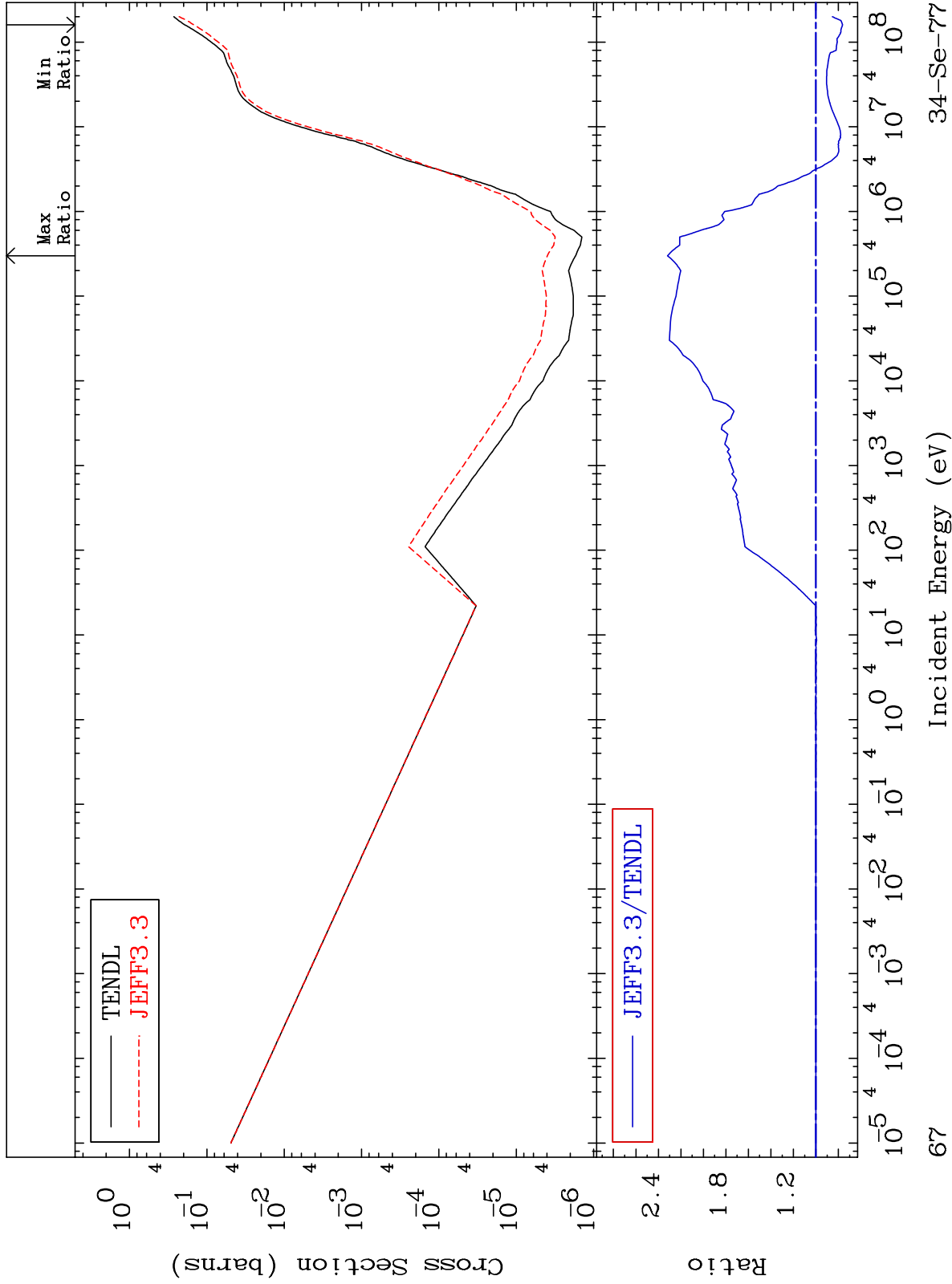
Incident Energy (eV)

34-Se-77

MAT 3434

He-4 Production  
Cross Section

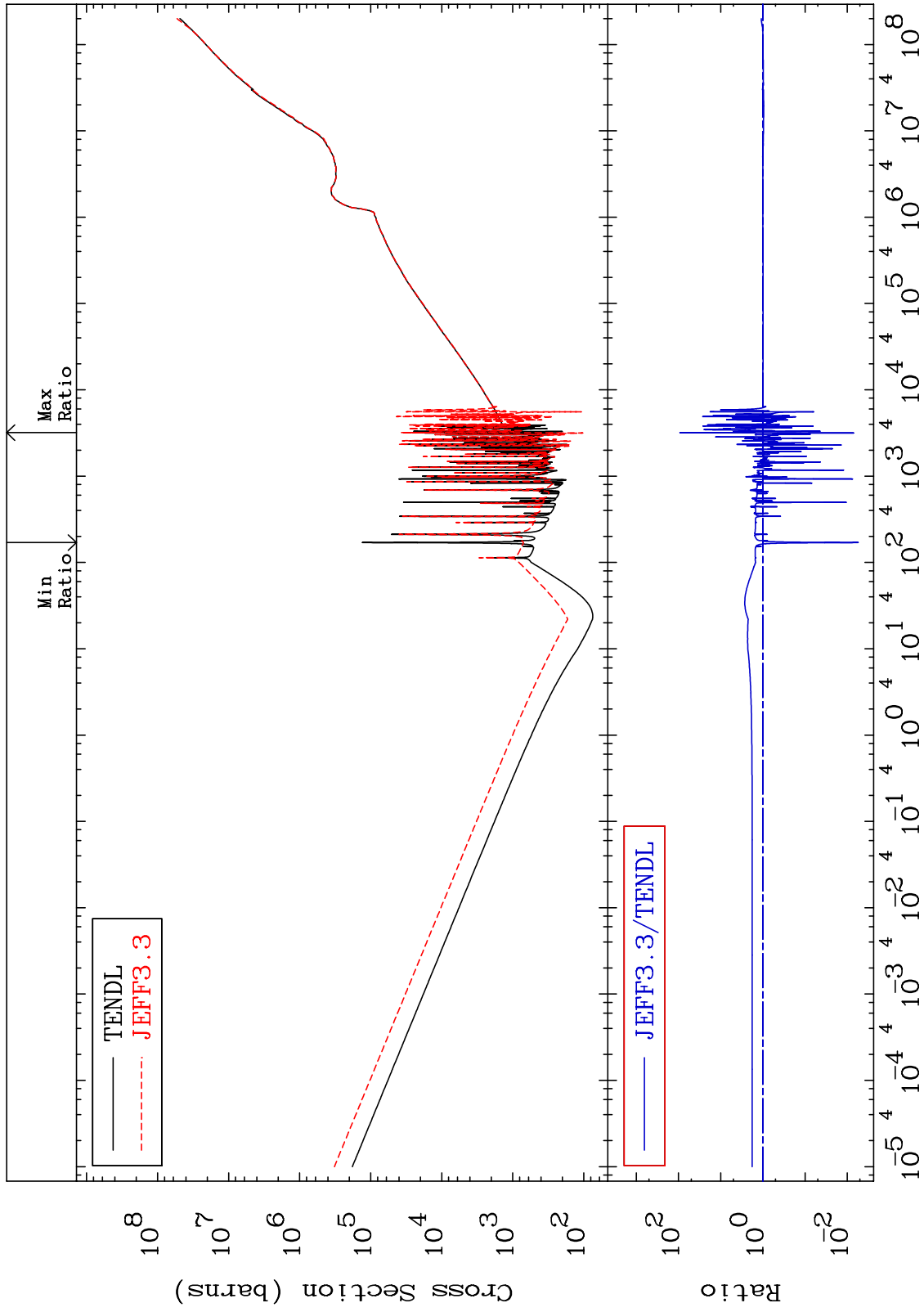
34-Se-77  
-23.80 To 131.9 %



MAT 3434

Kerma total (eV-barns)  
Cross Section

34-Se-77  
-99.46 To 9116. %



68

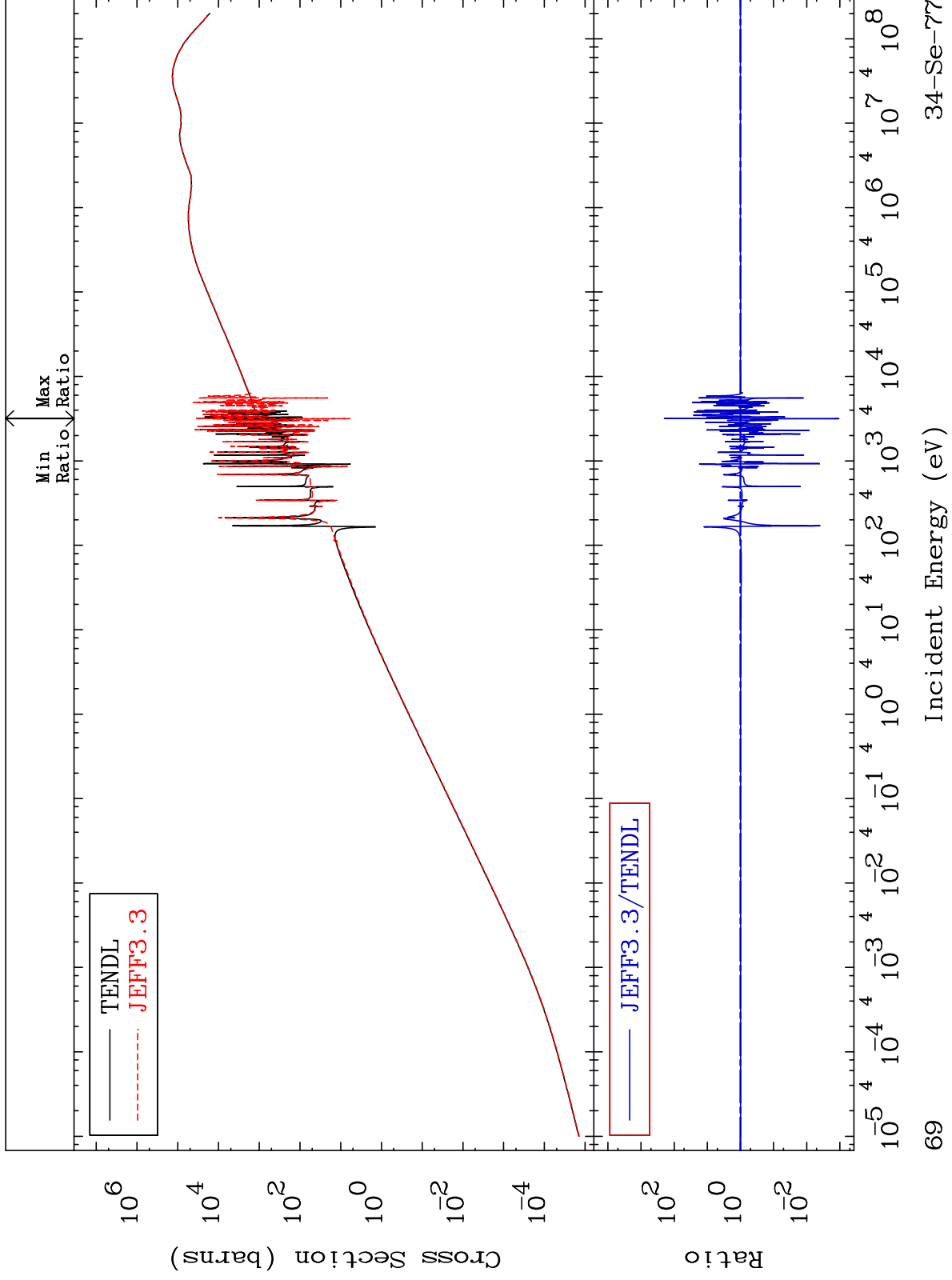
Incident Energy (eV)

34-Se-77

MAT 3434

Kerma elastic  
Cross Section

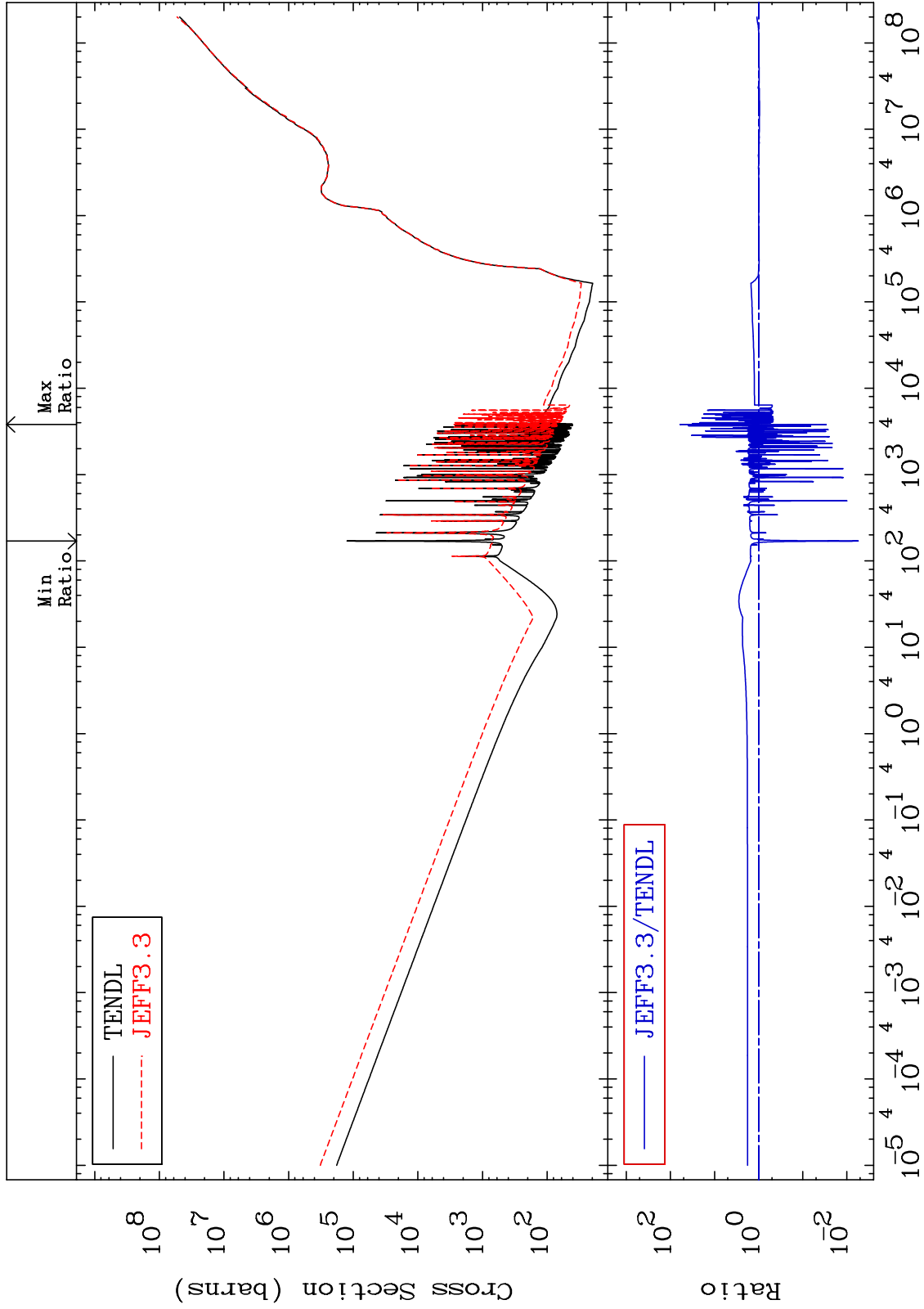
34-Se-77  
-99.89 To 9999. %



MAT 3434

Kerma non-elastic (all but mt2)  
Cross Section

34-Se-77  
-99.45 To 5953. %



70

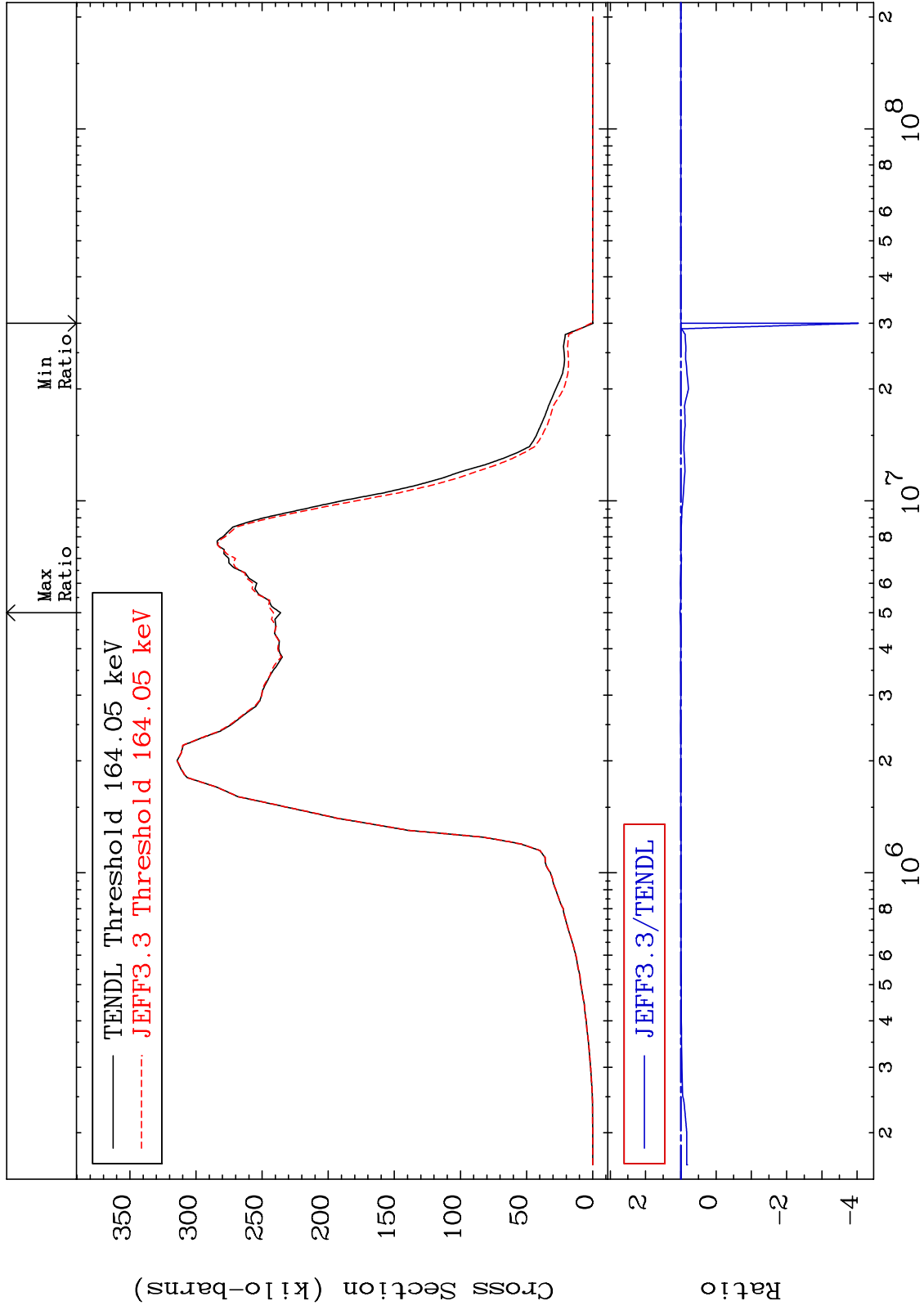
Incident Energy (eV)

34-Se-77

MAT 3434

Kerma inelastic (mt51-91)  
Cross Section

34-Se-77  
-503.7 To 2.258 %

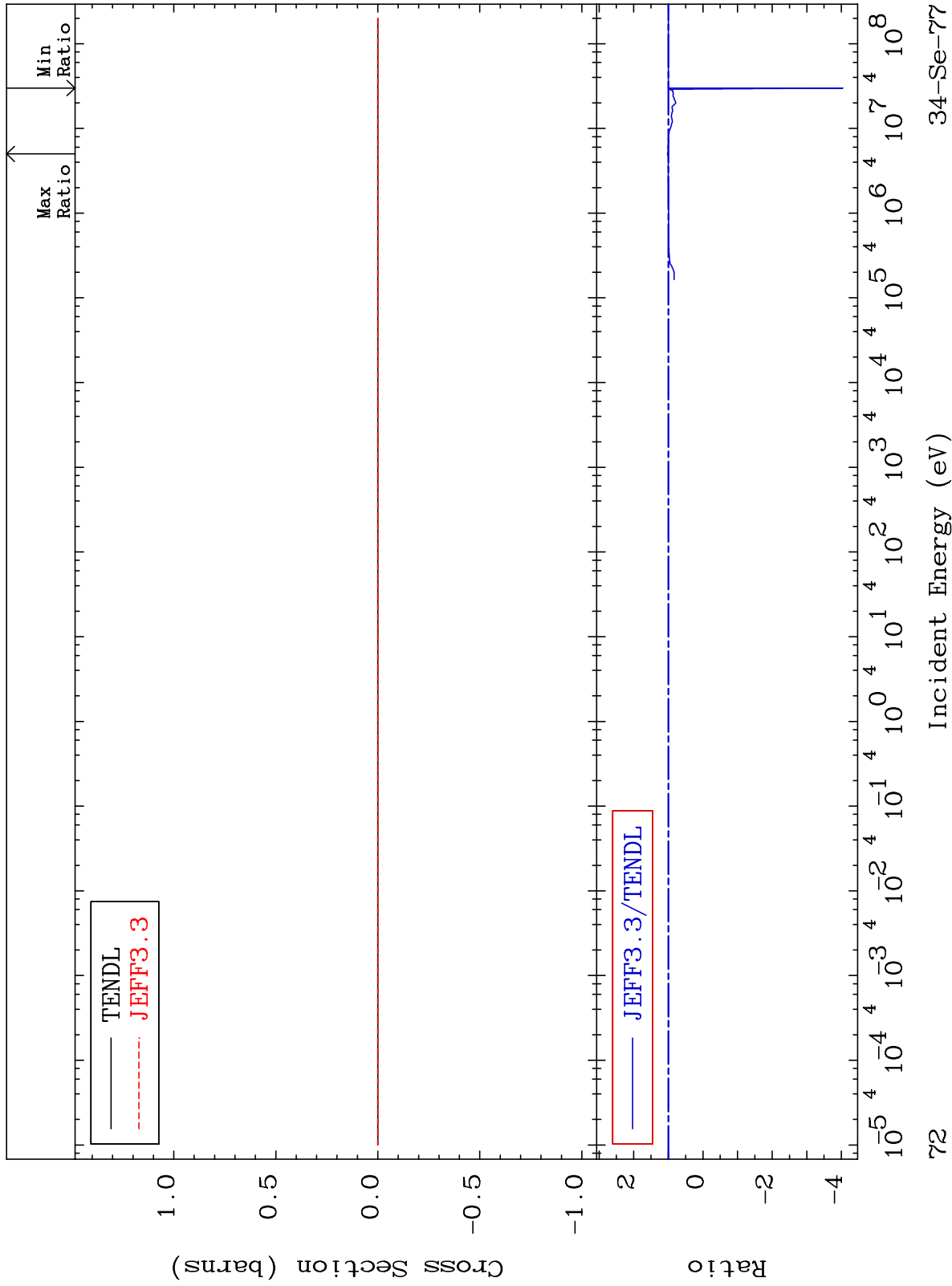




MAT 3434

Kerma fission (mt18 or mt19-20-21-38)  
Cross Section

34-Se-77  
-503.7 To 2.258 %



72

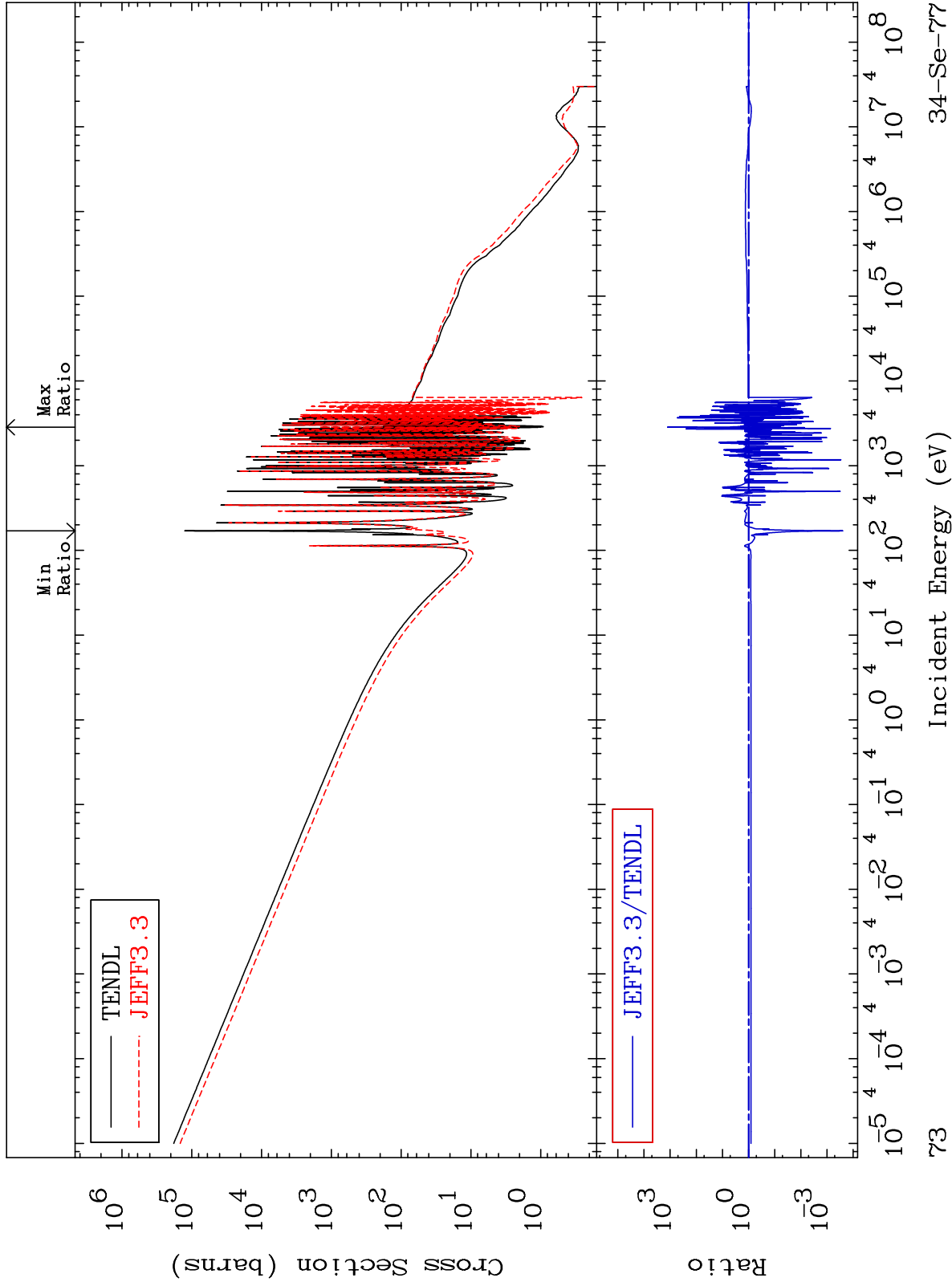
Incident Energy (eV)

34-Se-77

MAT 3434

Kerma capture (mt102)  
Cross Section

34-Se-77  
-99.98 To 9999. %



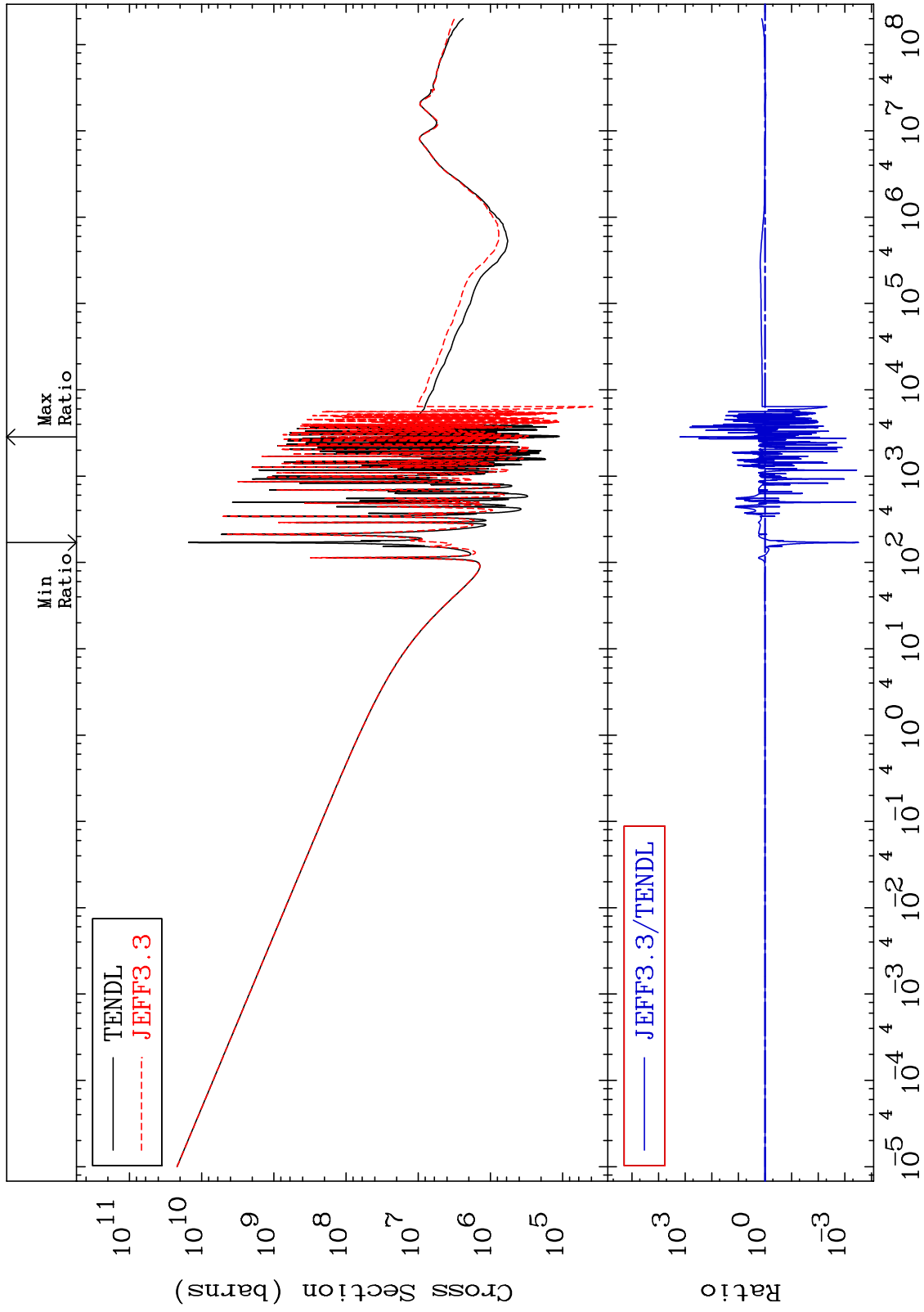
73

34-Se-77

MAT 3434

Total photon (eV-barns)  
Cross Section

34-Se-77  
-99.97 To 9999. %



74

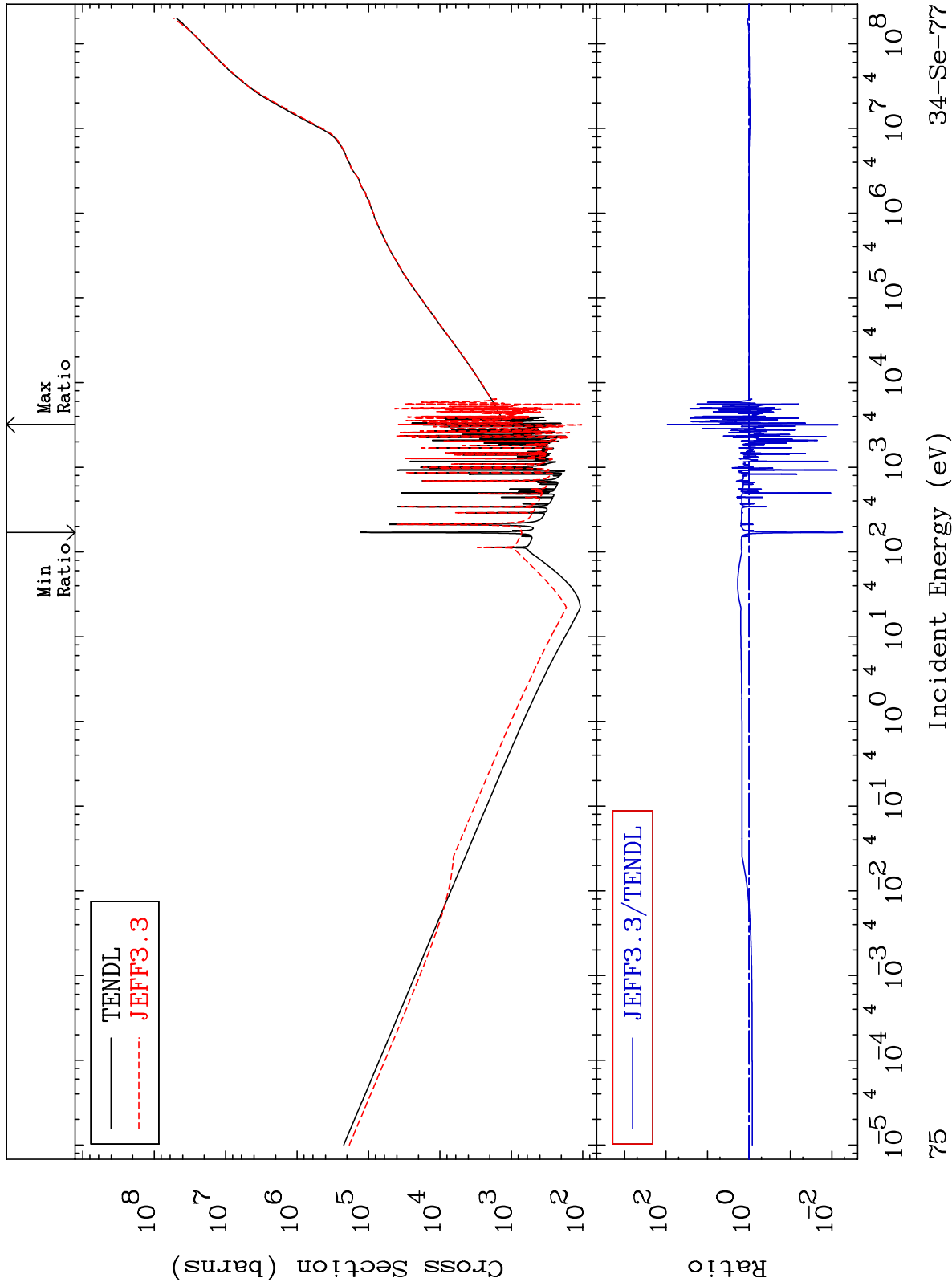
Incident Energy (eV)

34-Se-77

MAT 3434

Total kinematic kerma (high limit)  
Cross Section

34-Se-77  
-99.45 To 9105. %



75

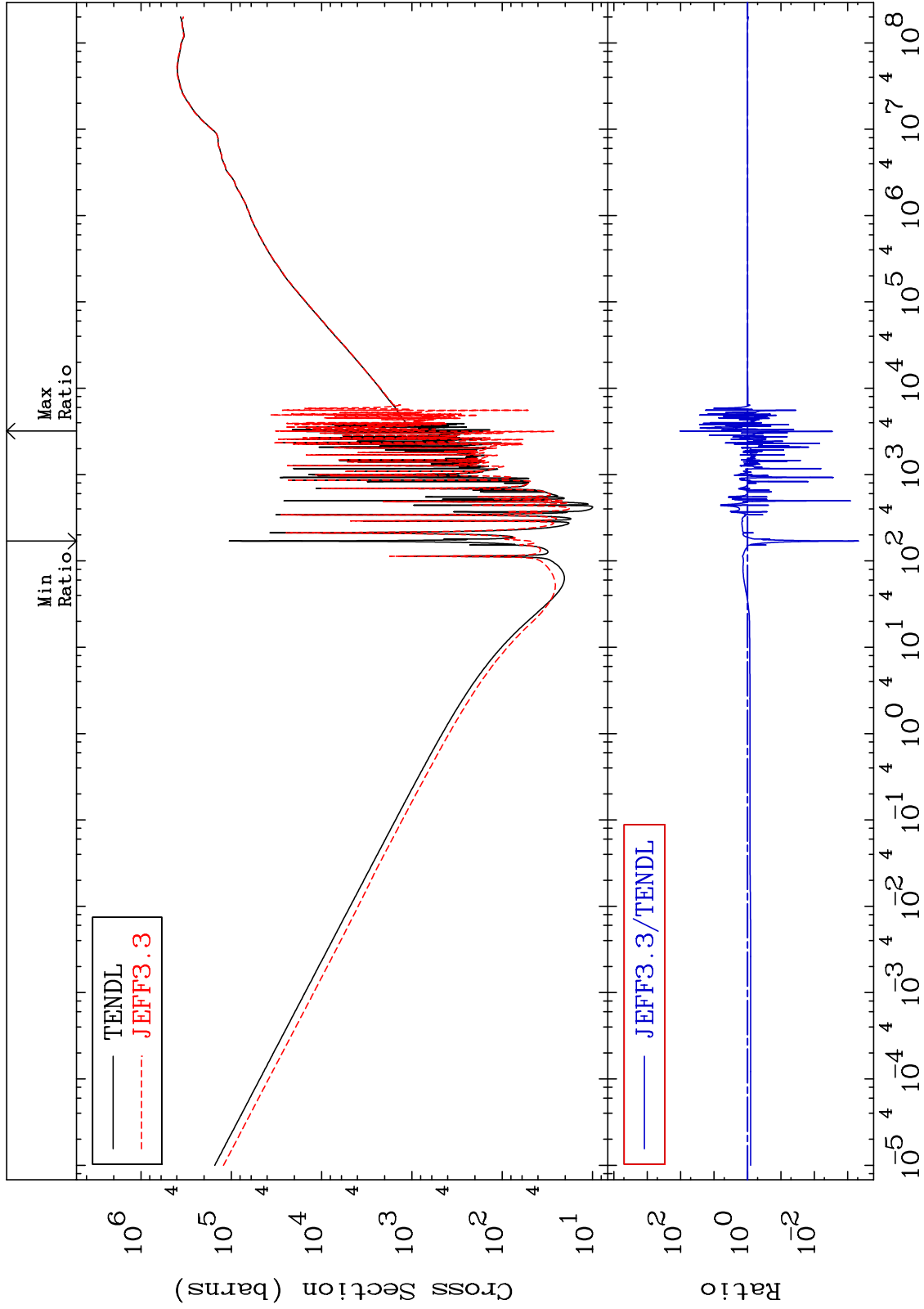
Incident Energy (eV)

34-Se-77

MAT 3434

Dpa total (eV-barns)  
Cross Section

34-Se-77  
-99.95 To 9999. %



76

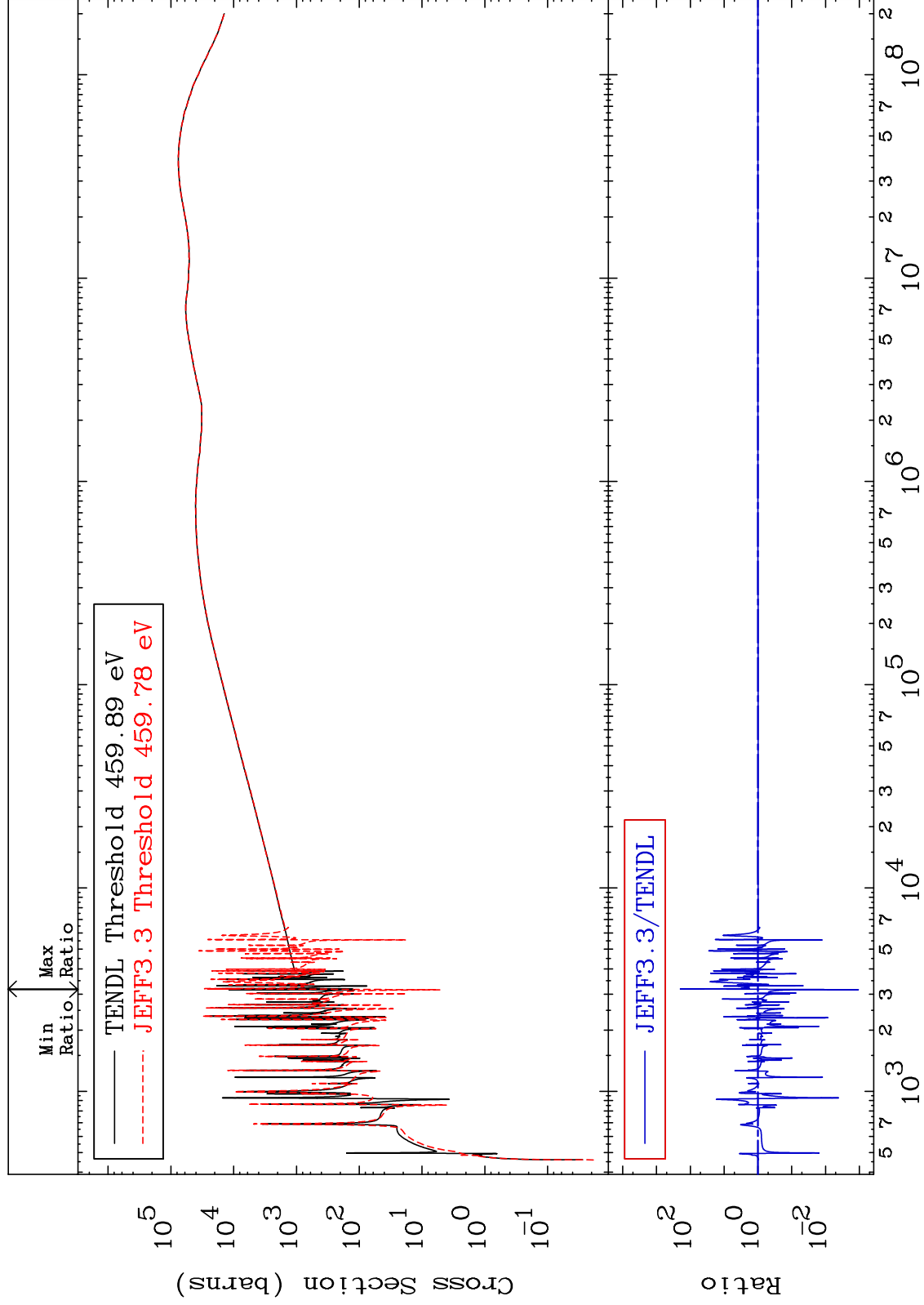
Incident Energy (eV)

34-Se-77

MAT 3434

Dpa elastic (mt2)  
Cross Section

34-Se-77  
-99.89 To 9999. %



77

Incident Energy (eV)

34-Se-77

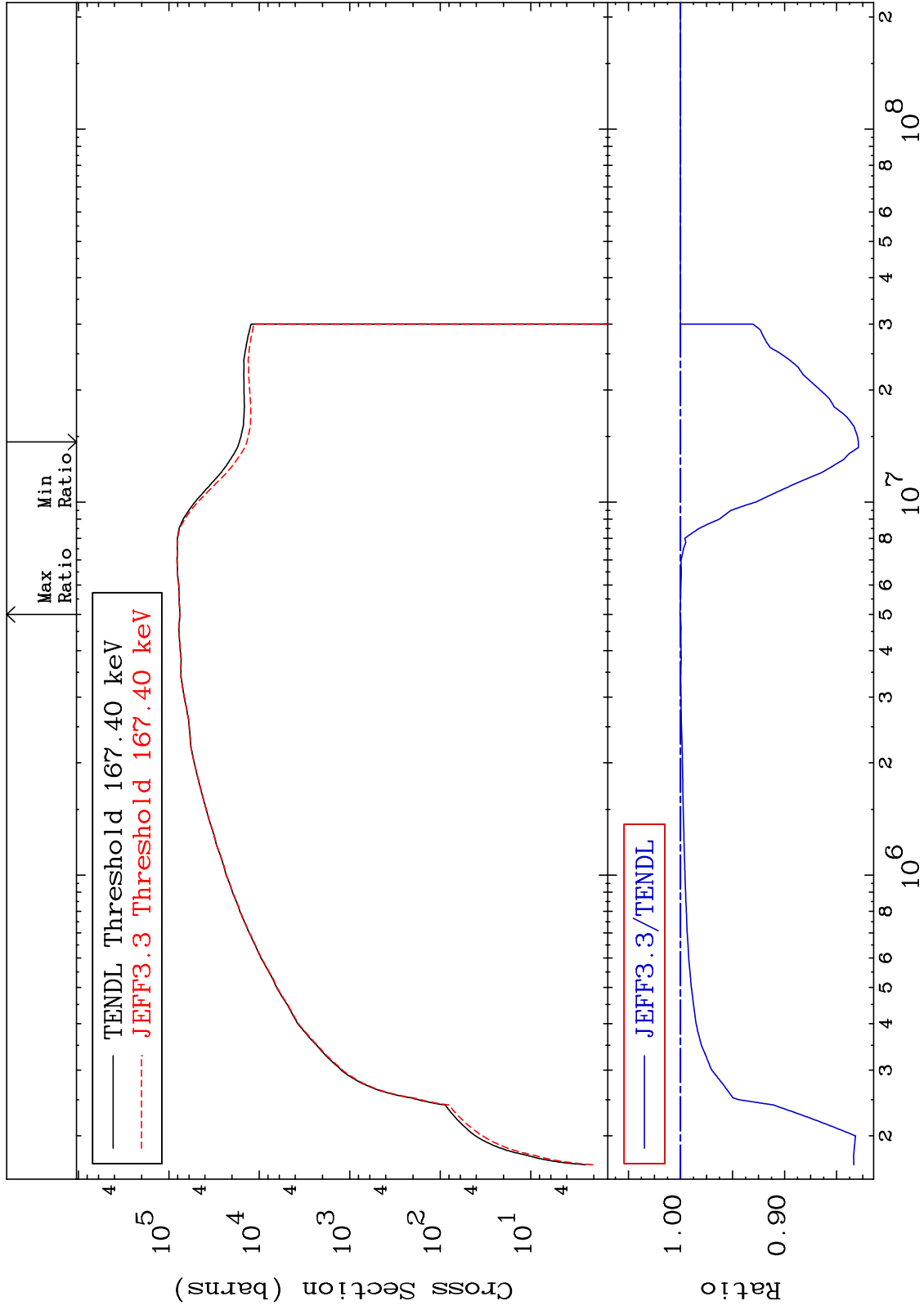
MAT 3434

Dpa inelastic (mt51-91)

34-Se-77

-17.09 To 0.044 %

Cross Section



78

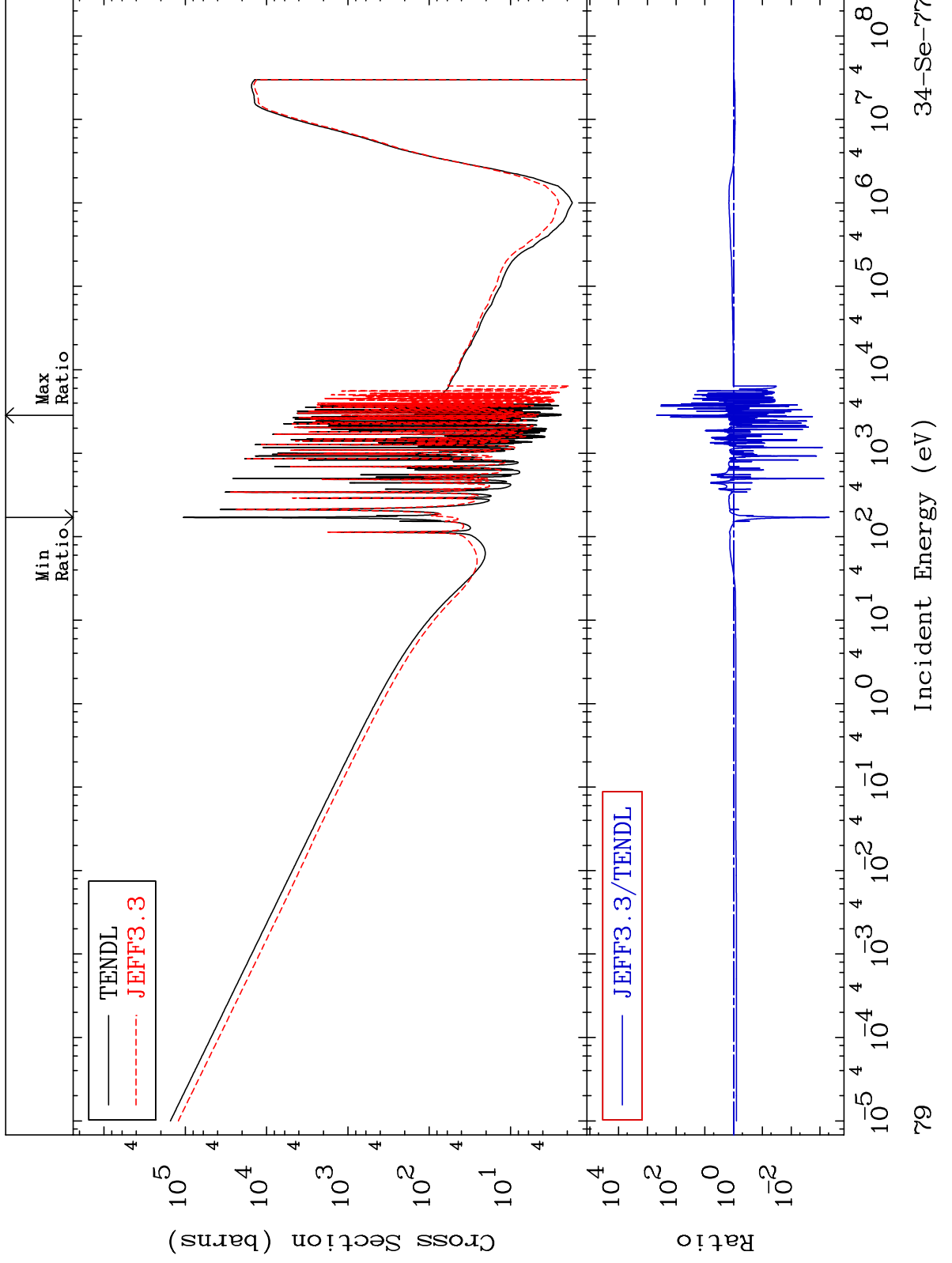
Incident Energy (eV)

34-Se-77

MAT 3434

Dpa disappearance (mt102 -120)  
Cross Section

34-Se-77  
-99.95 To 9999. %

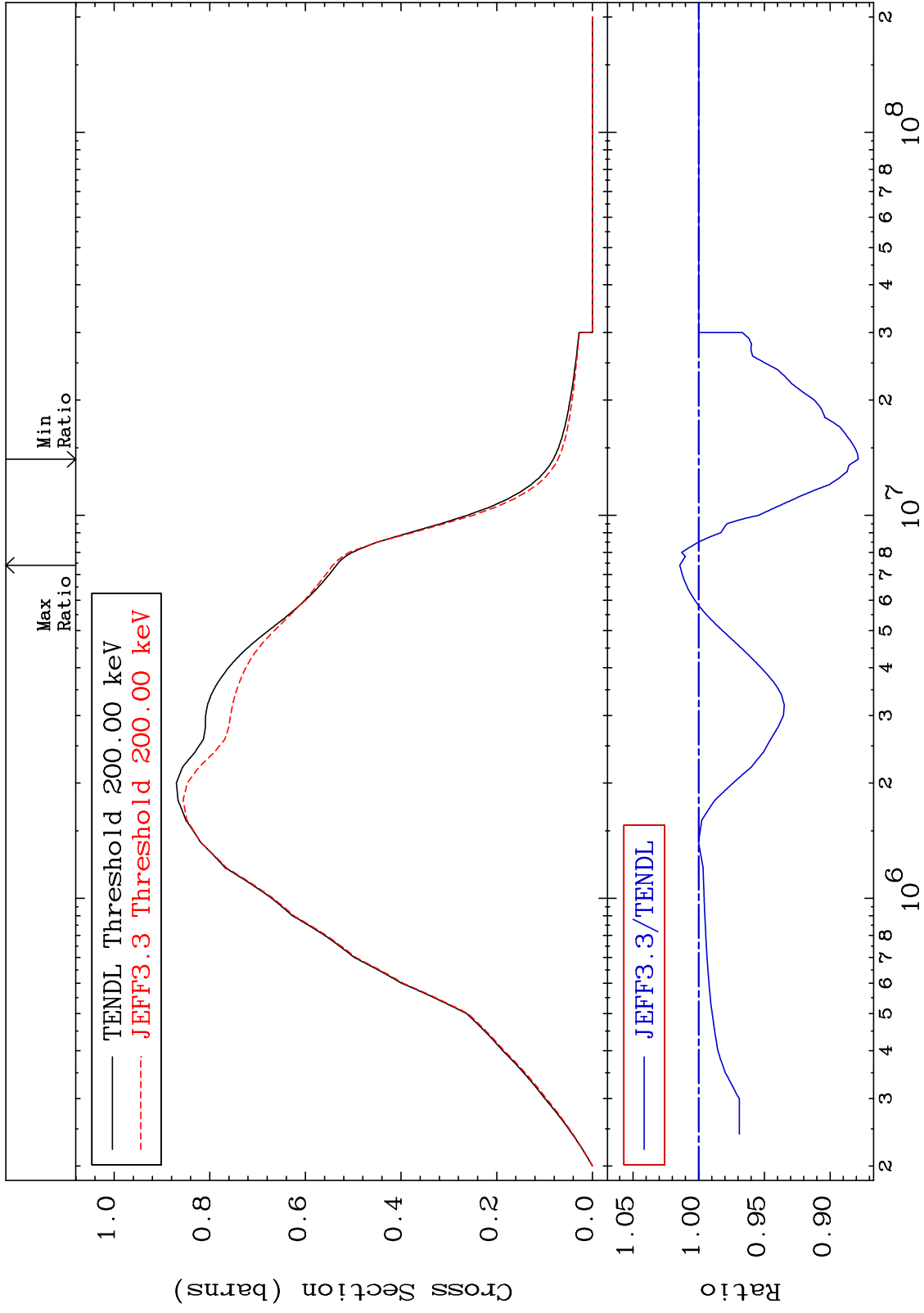




MAT 3434

Inelastic: 34-Se-77g  
Radionuclide Production Cross Section -12.15 To 1.434 %

34-Se-77



80

Incident Energy (eV)

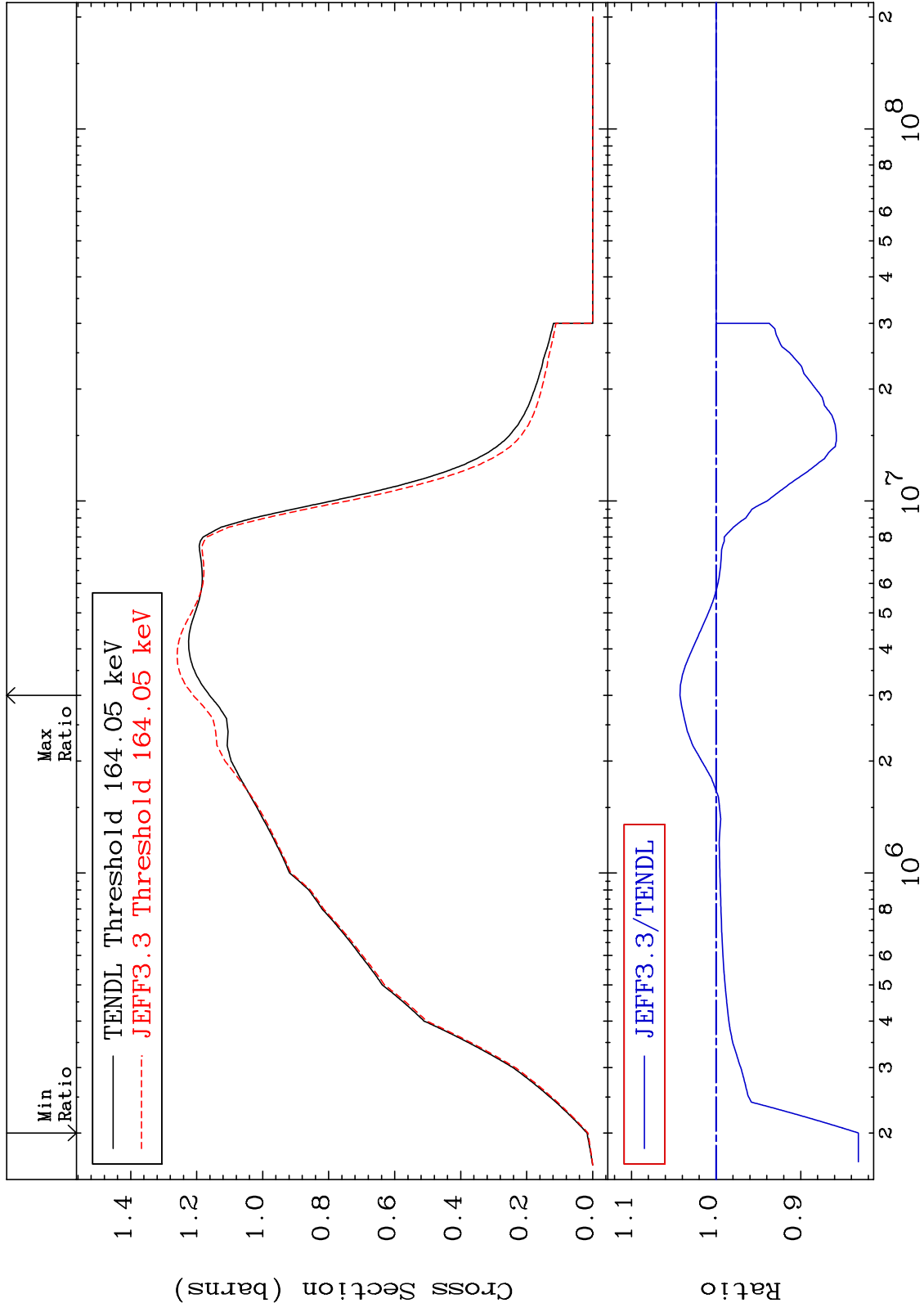
34-Se-77

MAT 3434

Inelastic:34-Se-77m1

34-Se-77

Radionuclide Production Cross Section -16.82 To 4.264 %

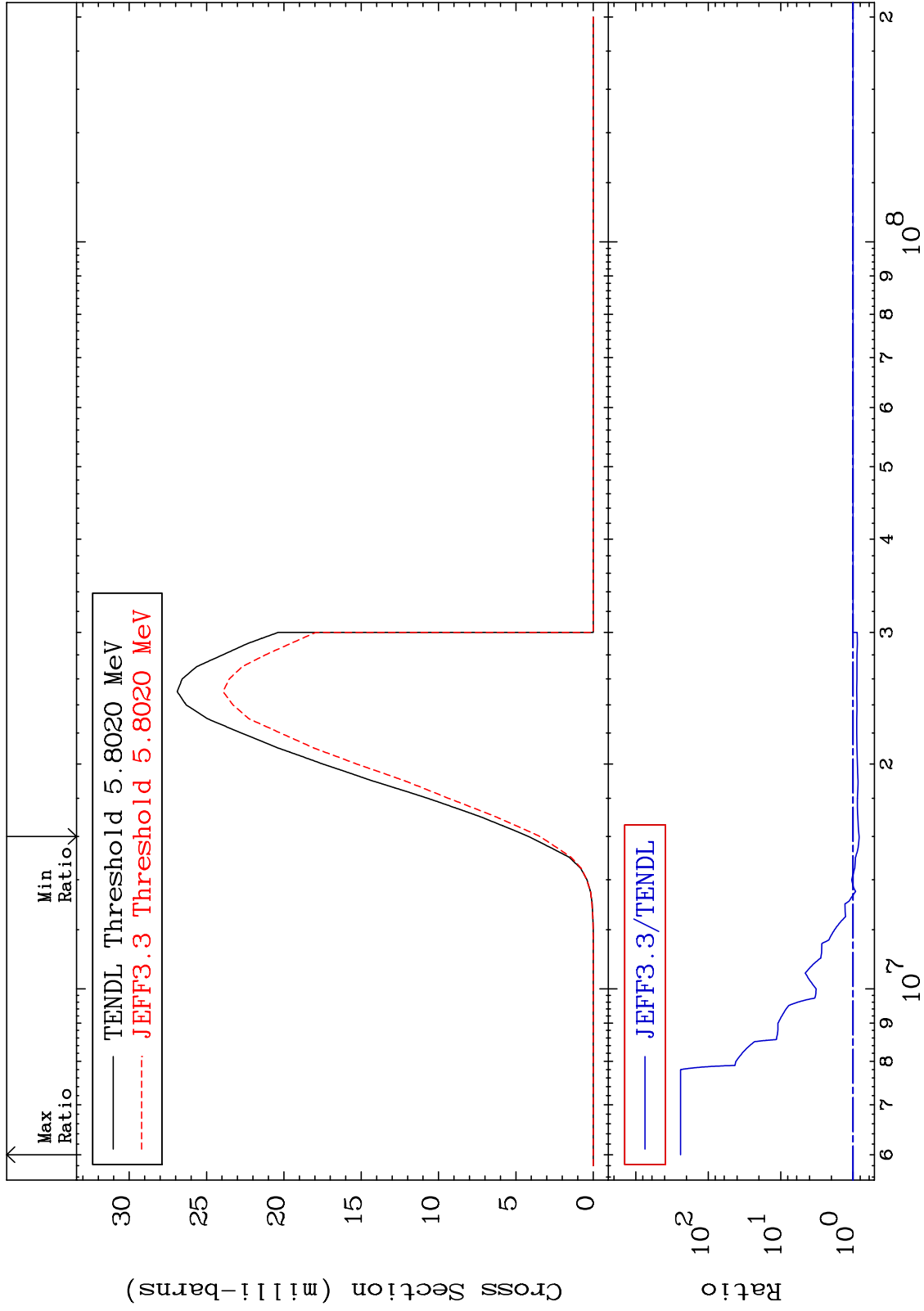


MAT 3434

(n, n')  $\alpha$ : 32-Ge-73g

34-Se-77

Radionuclide Production Cross Section -17.53 To 9999. %



82

Incident Energy (eV)

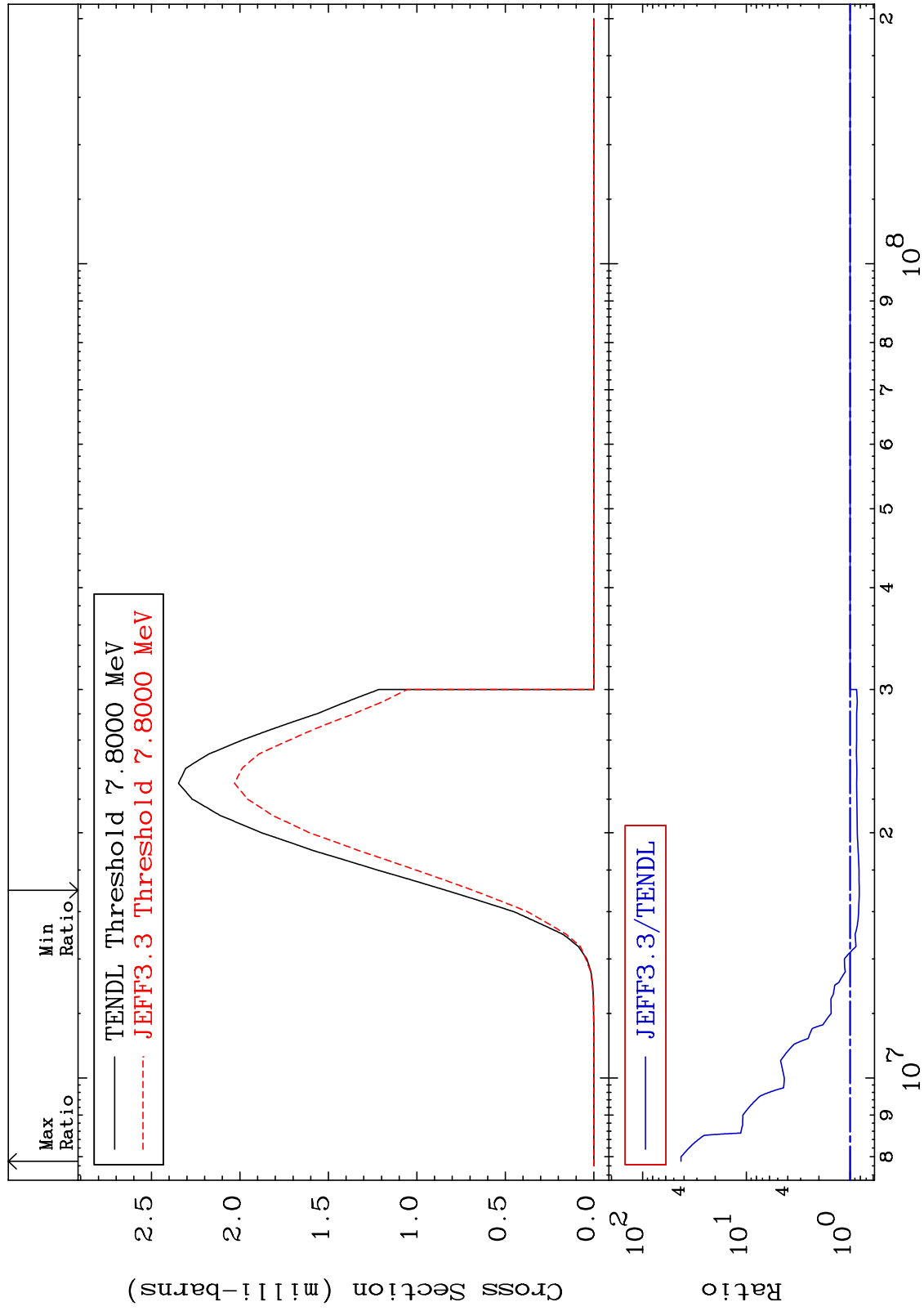
34-Se-77

MAT 3434

(n, n')  $\alpha$ :32-Ge-73m2

34-Se-77

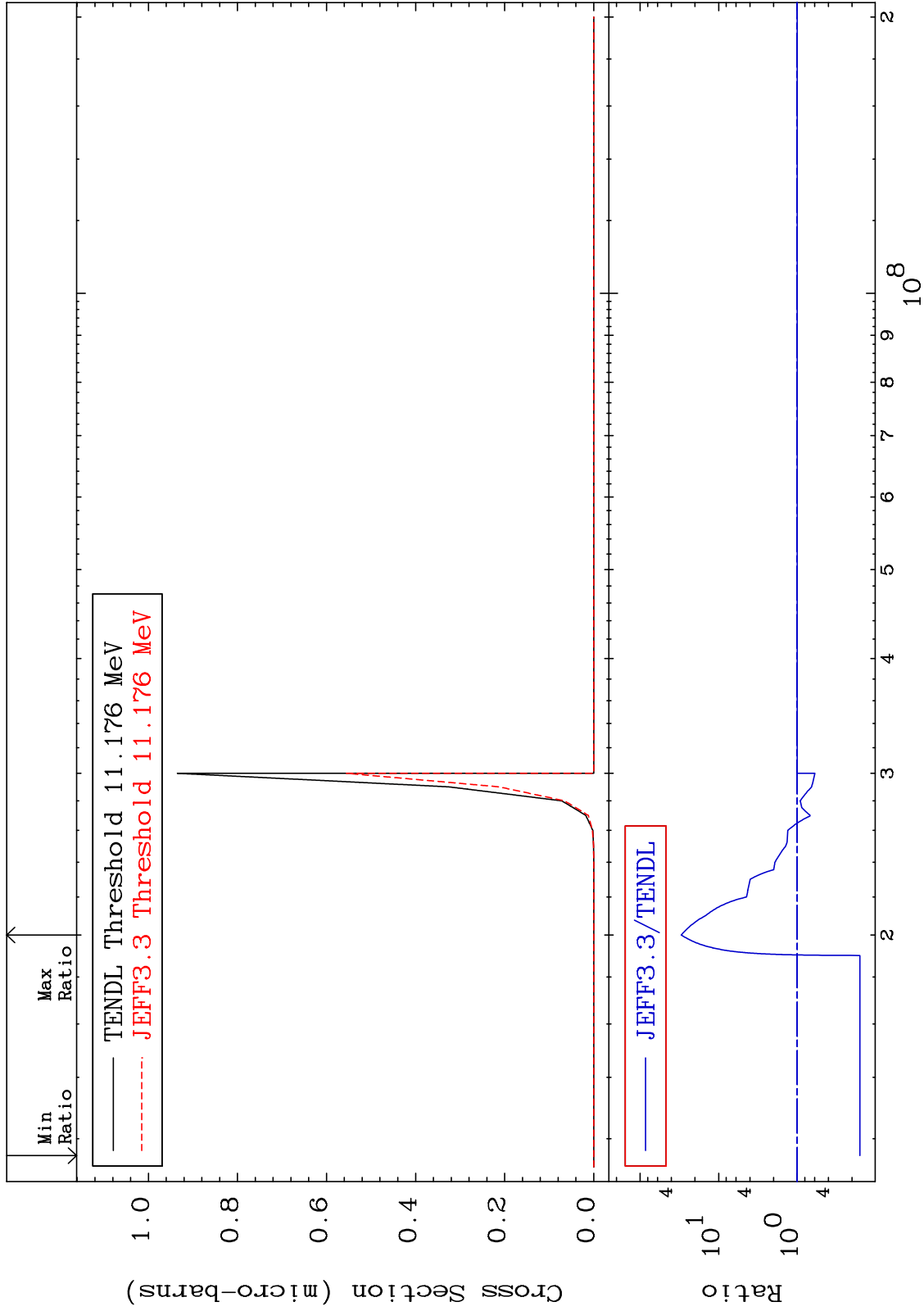
Radionuclide Production Cross Section -18.30 To 4166. %



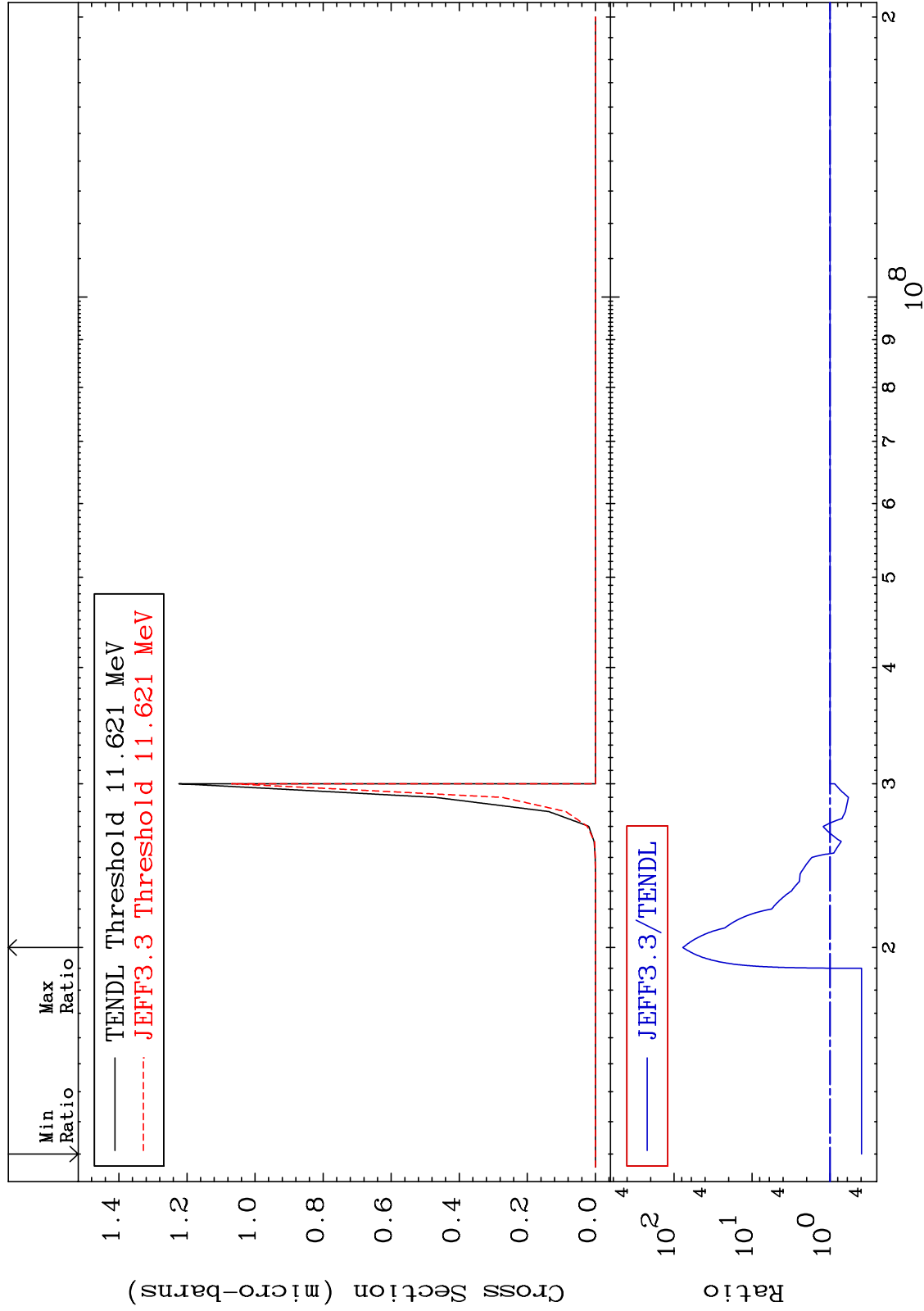
34-Se-77

Incident Energy (eV)

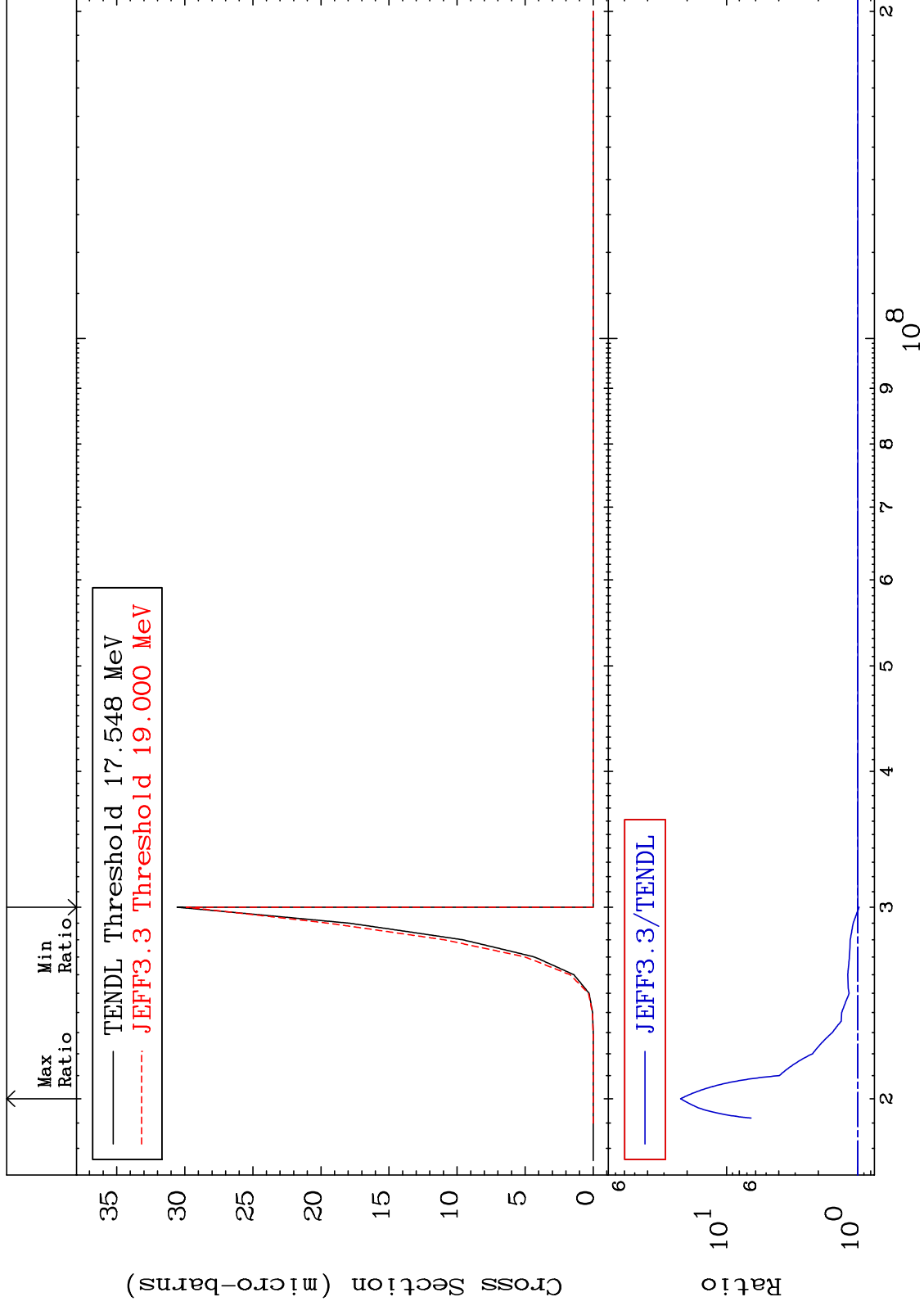
83



Radionuclide Production Cross Section -60.53 To 7613. %



Radionuclide Production Cross Section -2.242 To 2138. %

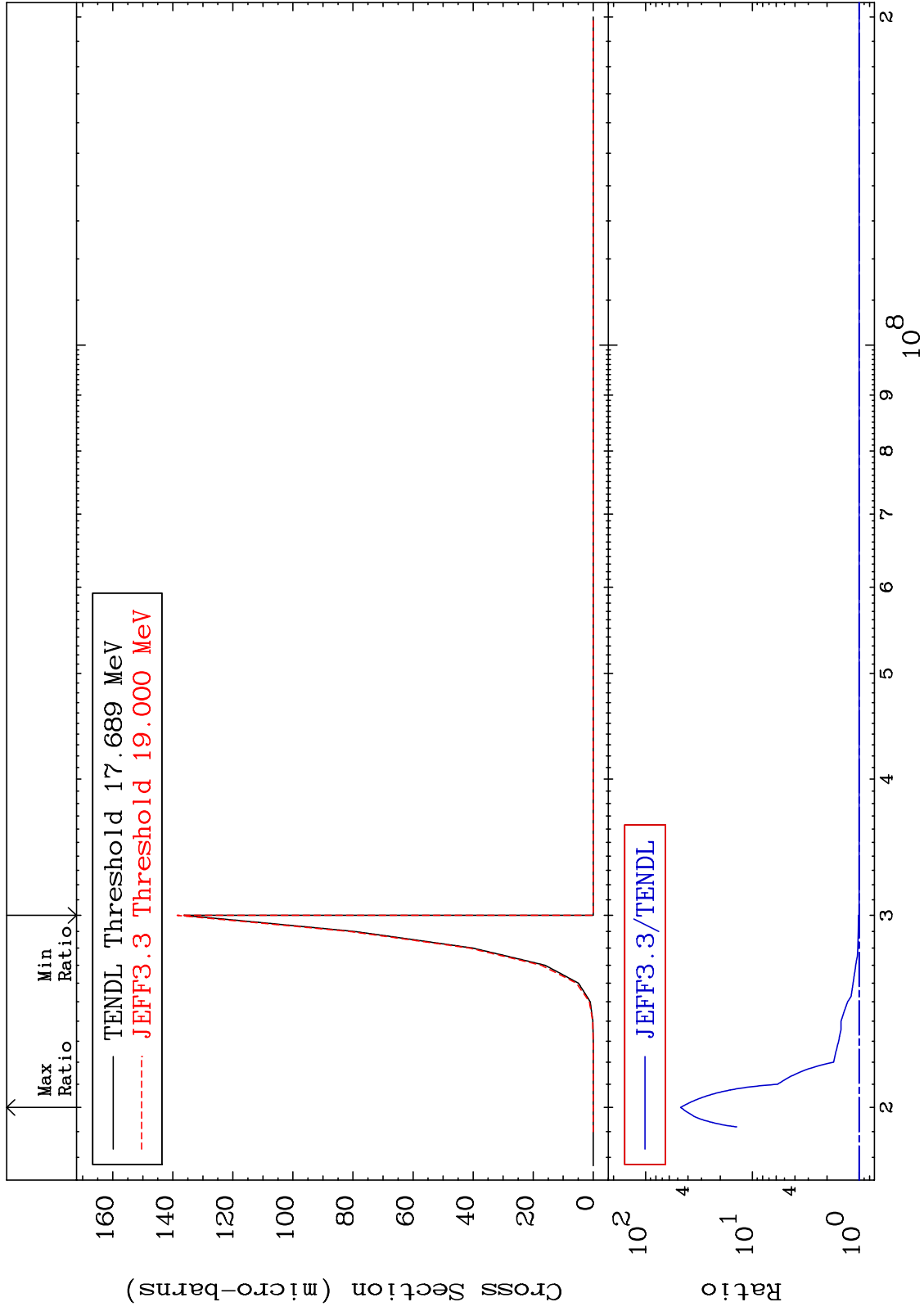


MAT 3434

(n,2n) p:32-Ge-75m2

34-Se-77

Radionuclide Production Cross Section 0.000 To 4598. %



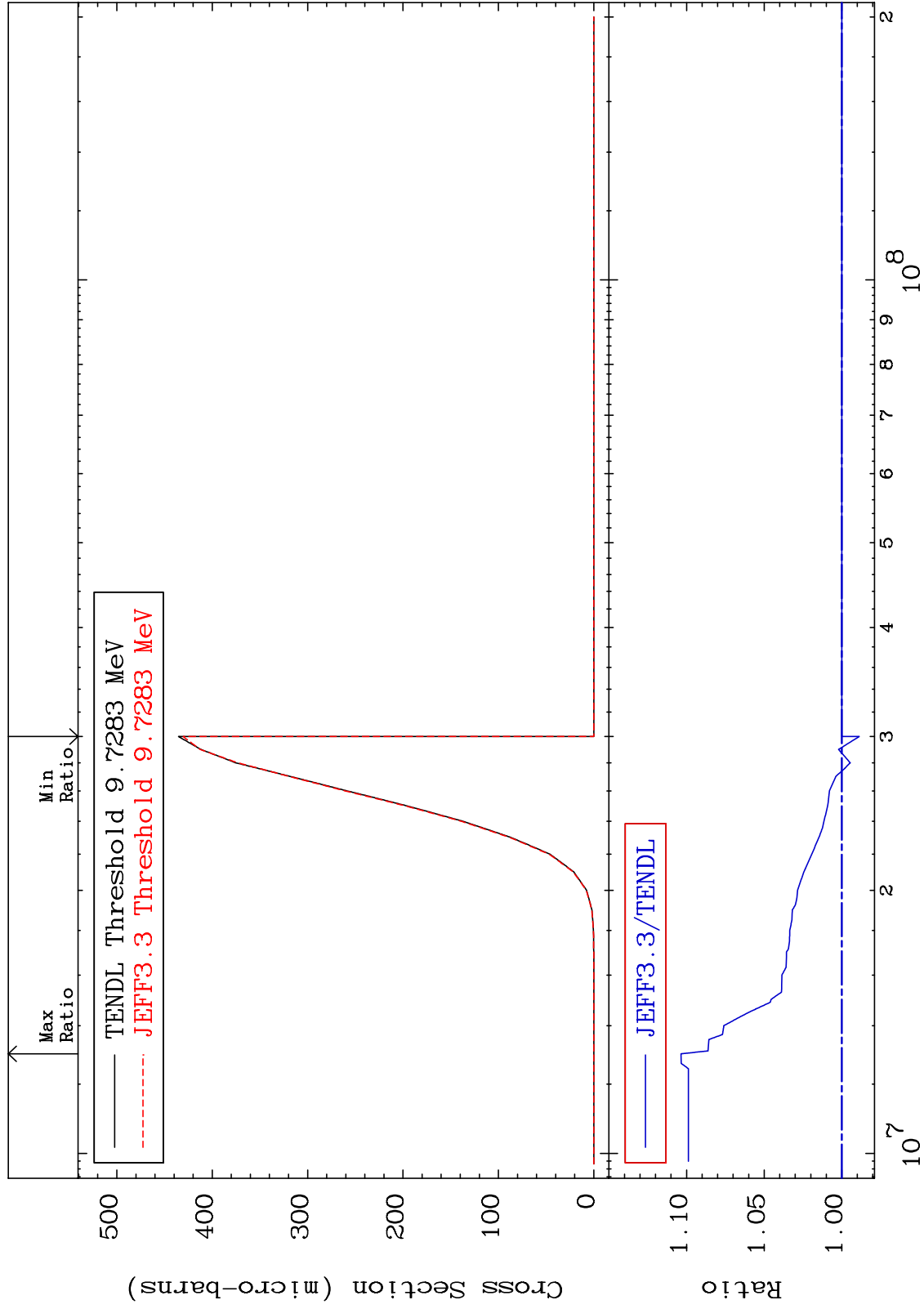


MAT 3434

(n, He-3) : 32-Ge-75g

34-Se-77

Radionuclide Production Cross Section -1.126 To 10.35 %



88

Incident Energy (eV)

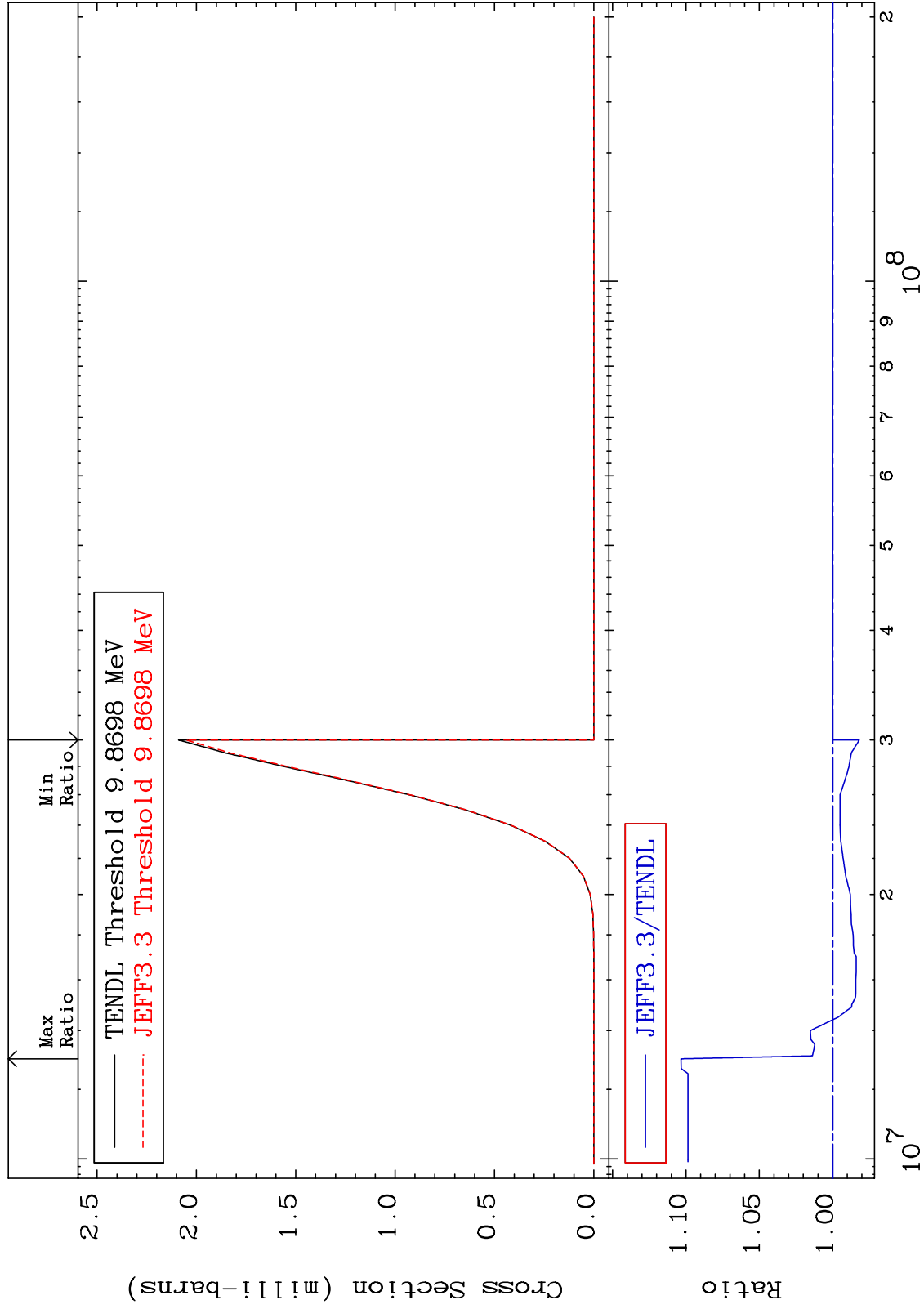
34-Se-77

MAT 3434

(n, He-3):32-Ge-75m2

34-Se-77

Radionuclide Production Cross Section -1.819 To 10.34 %



89

Incident Energy (eV)

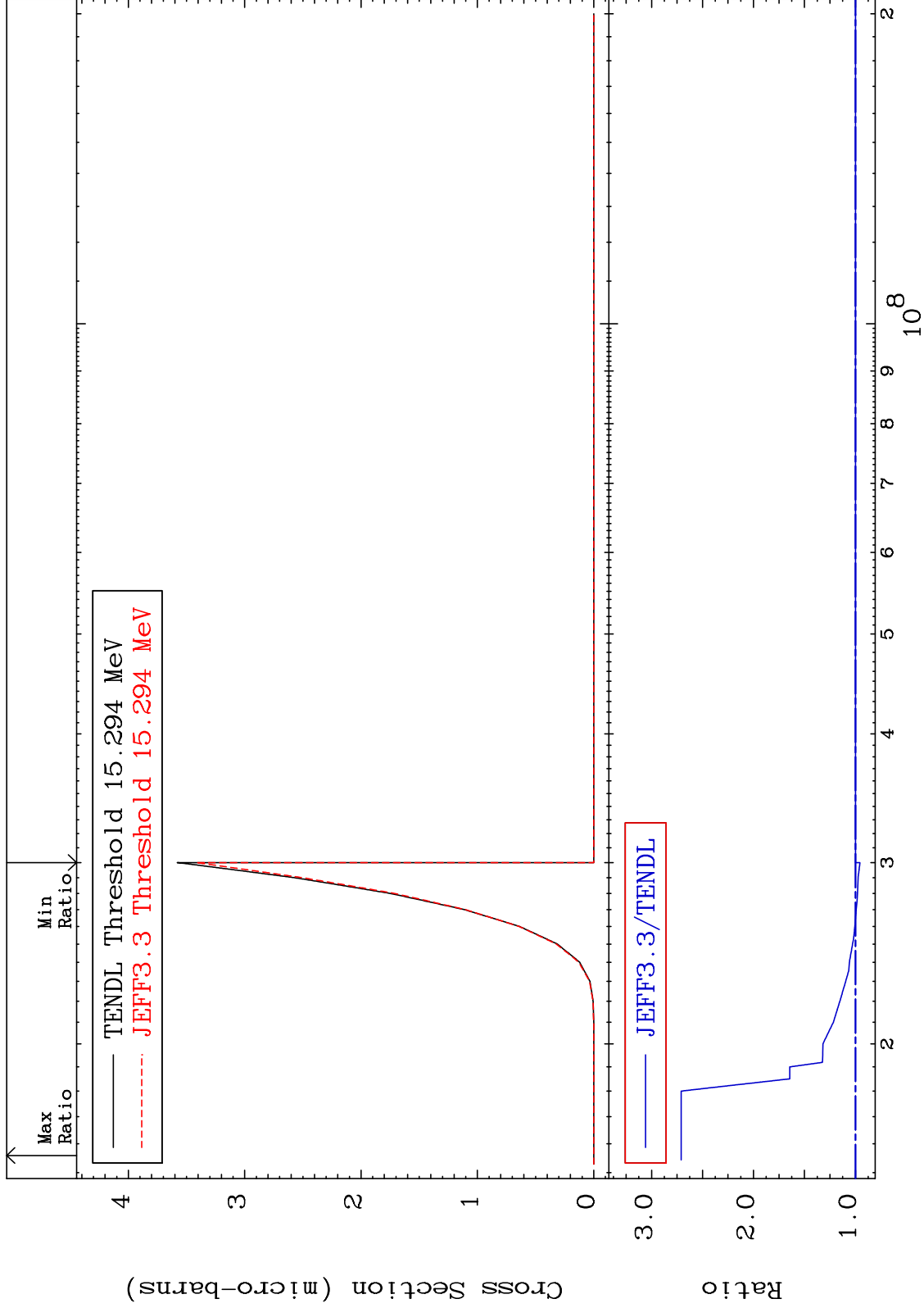
34-Se-77

MAT 3434

(n, p) d:32-Ge-75g

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

Radionuclide Production Cross Section -4.428 To 170.9 %



90

Incident Energy (eV)

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

MAT 3434

(n, p) d:32-Ge-75m2

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

Radionuclide Production Cross Section -5.126 To 175.7 %

