

Program Complot  
(Version 2018-1)

by

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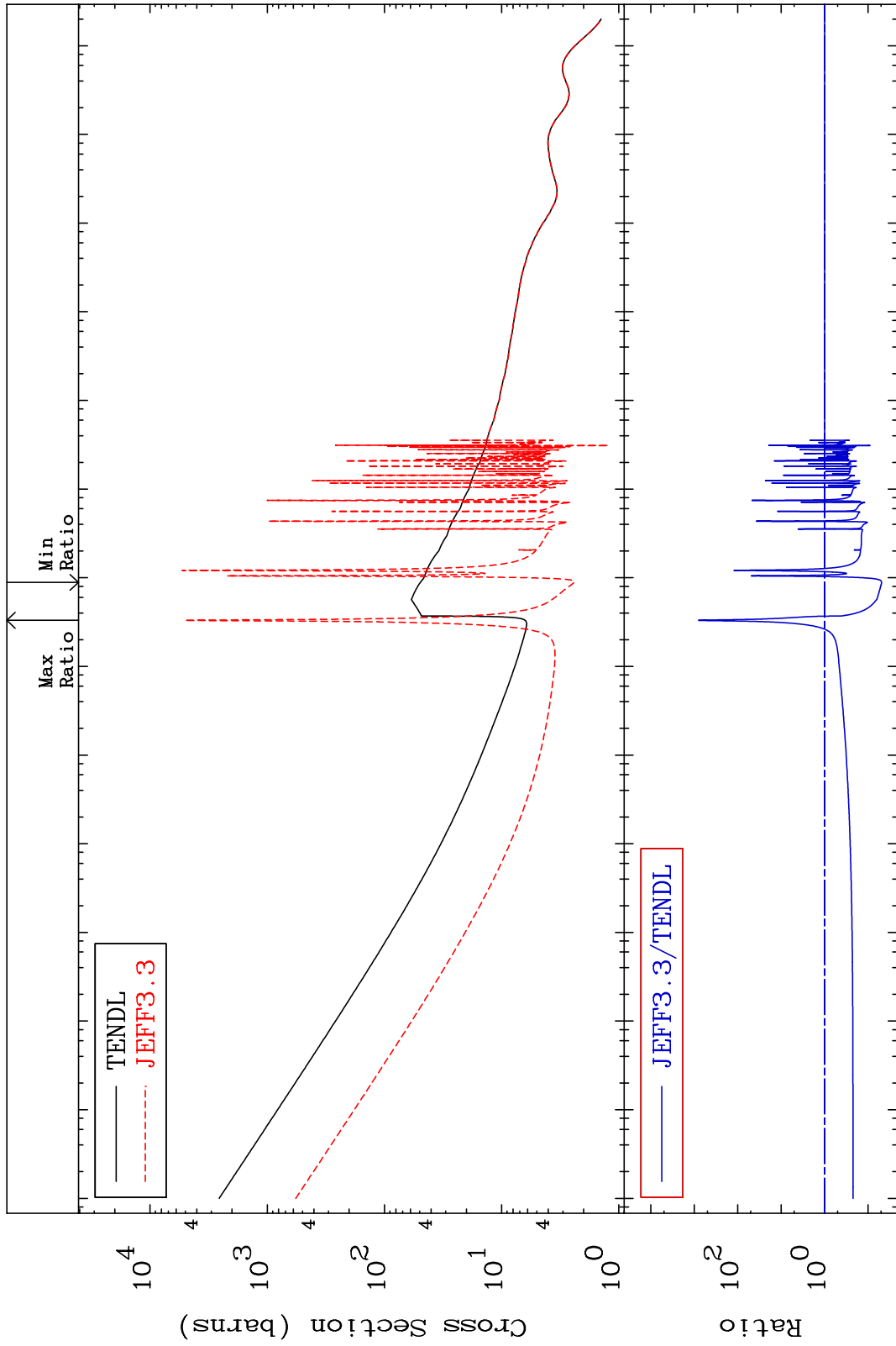
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 3440

Total  
Cross Section

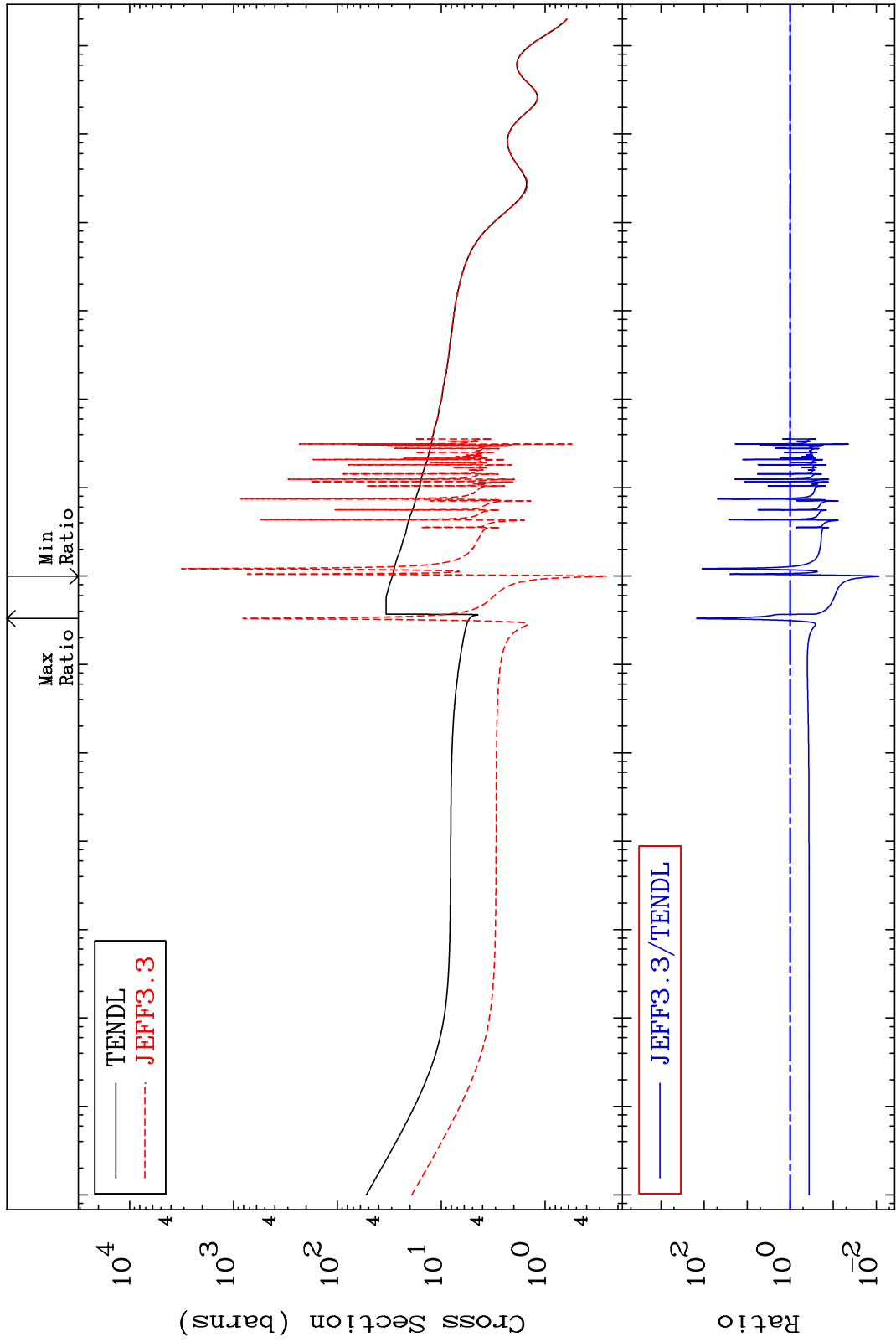
34-Se-79  
-95.12 To 9999. %



Incident Energy (eV)

34-Se-79

MAT 3440 Elastic Cross Section 34-Se-79 -99.14 To 9999. %



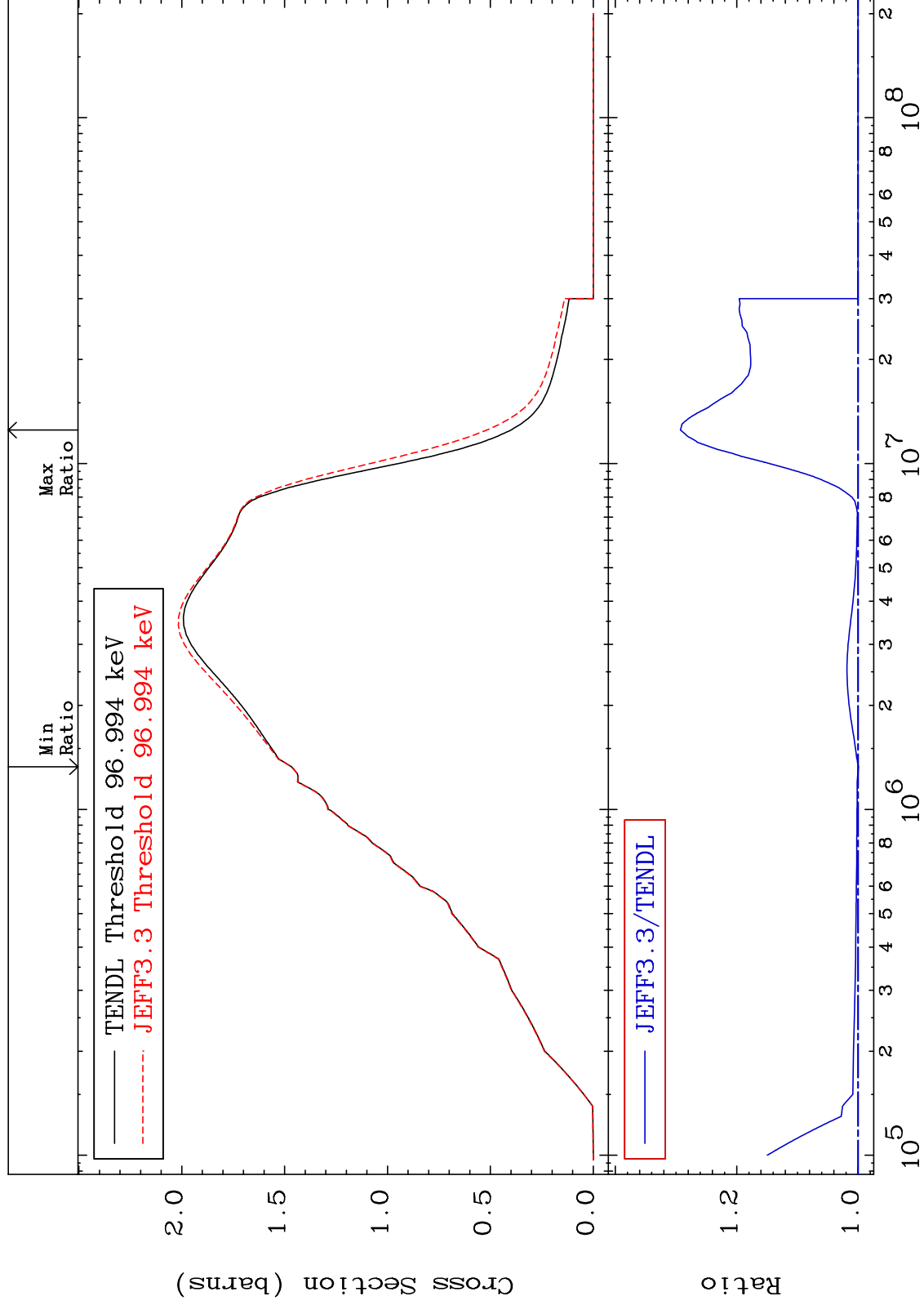
2 34-Se-79

MAT 3440

Inelastic  
Cross Section

34-Se-79

-0.065 To 29.27 %



34-Se-79

34-Se-79

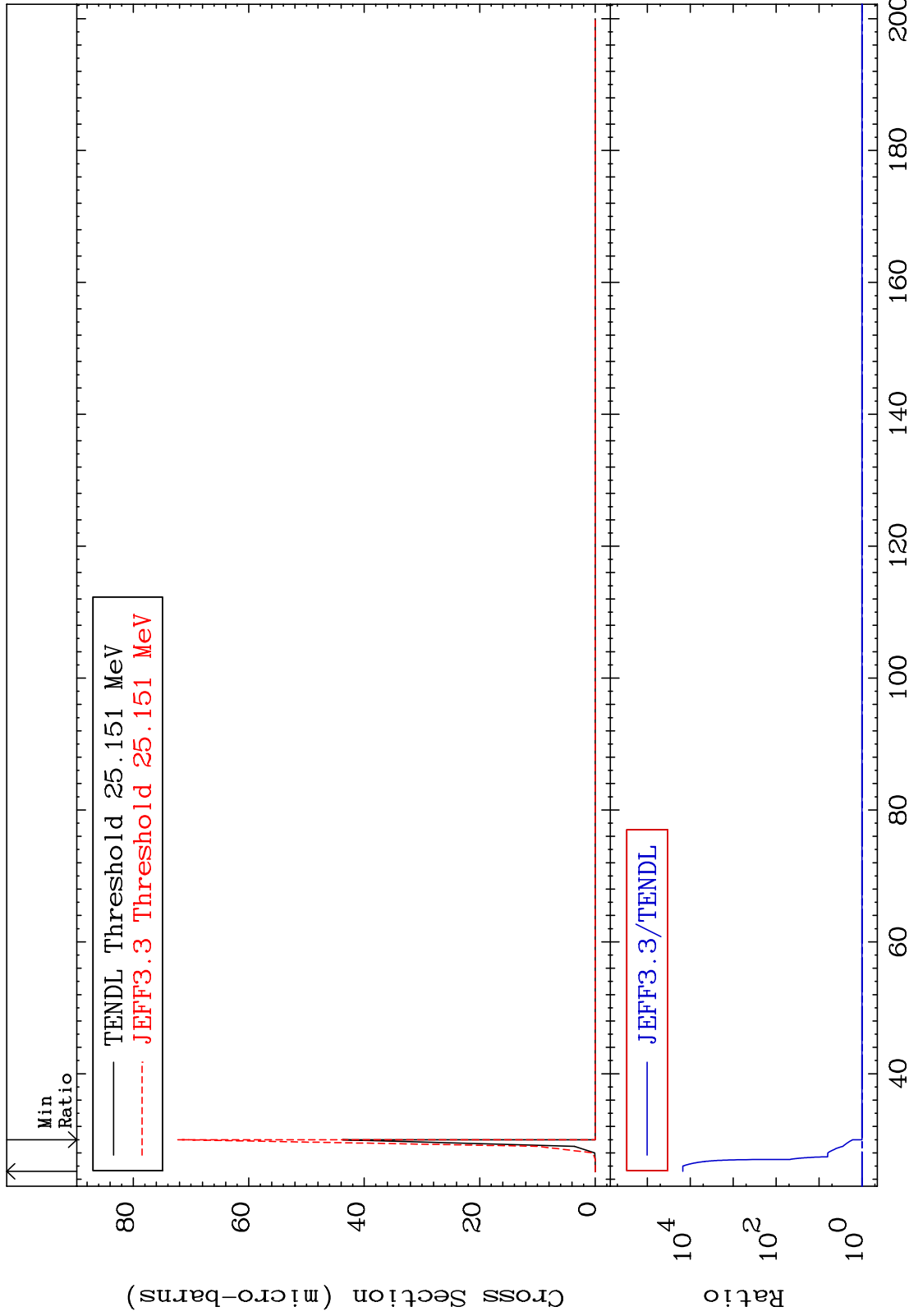
MAT 3440

(n,2n) d

<sup>34</sup>Se-79

Cross Section

0.000 To 9999. %



MAT 3440

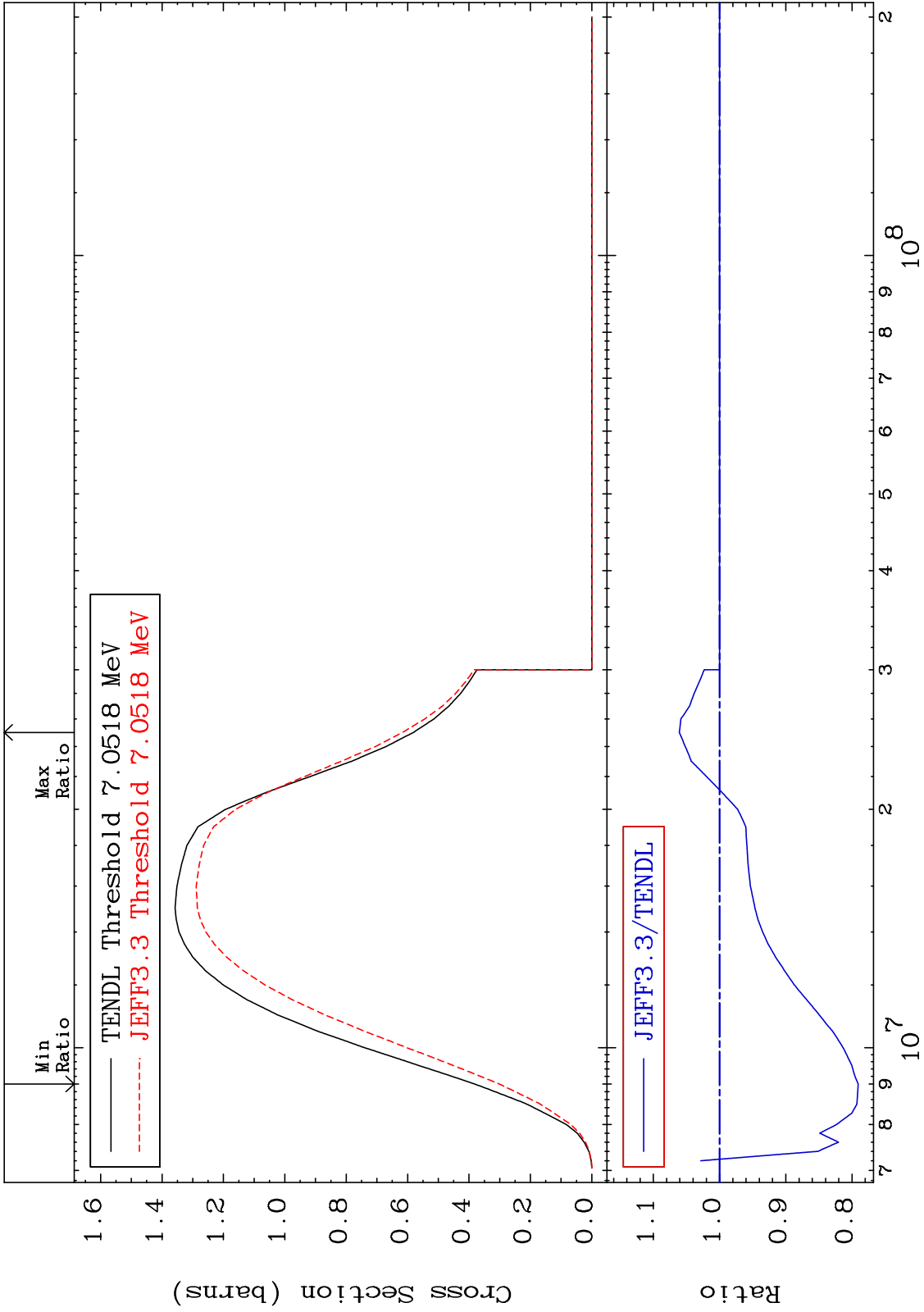
(n,2n)

<sup>34</sup>Se-79

Cross Section

Cross Section

-20.94 To 6.071 %



5

Incident Energy (eV)

<sup>34</sup>Se-79

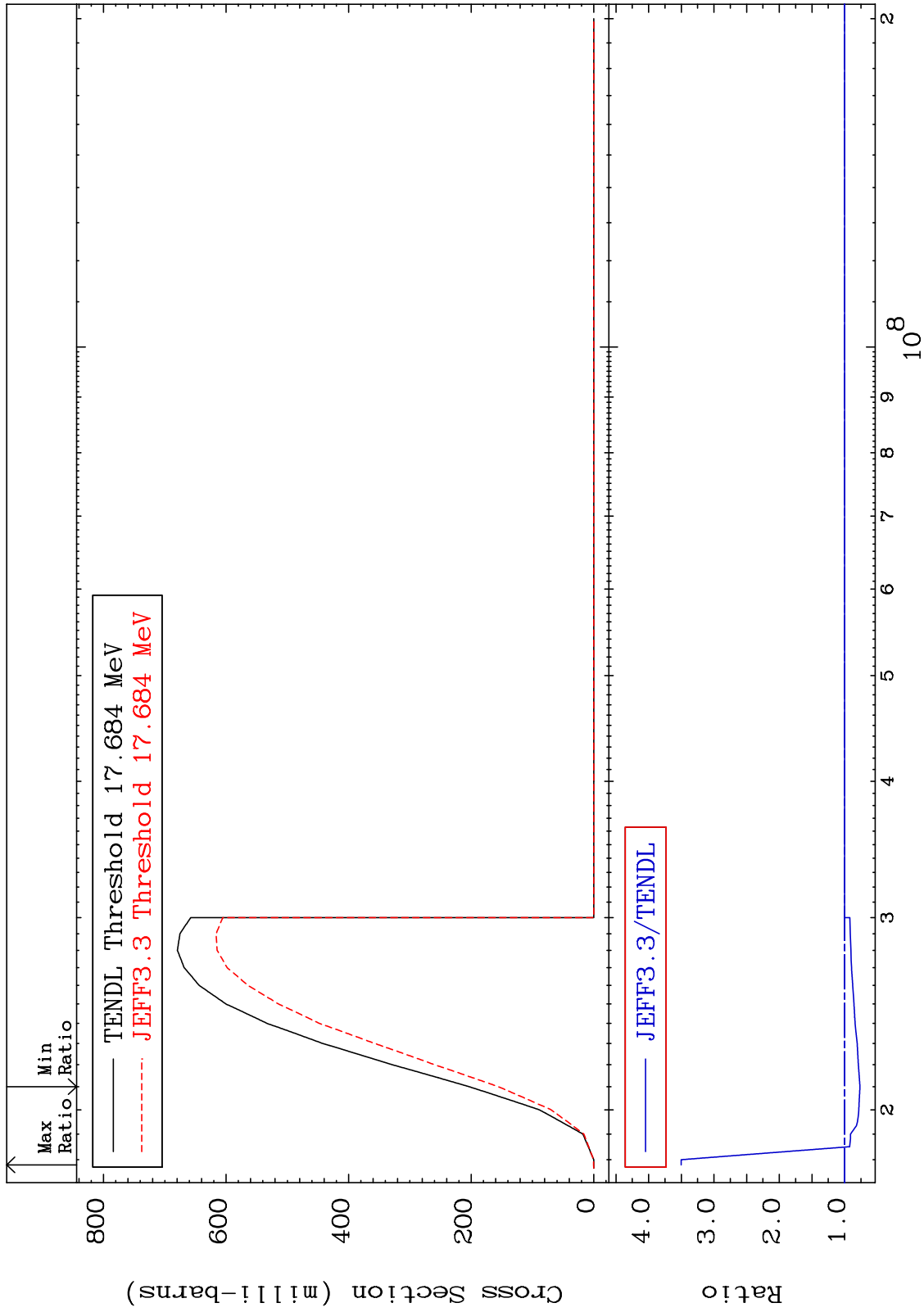
MAT 3440

(n,3n)

<sup>34</sup>Se-79

Cross Section

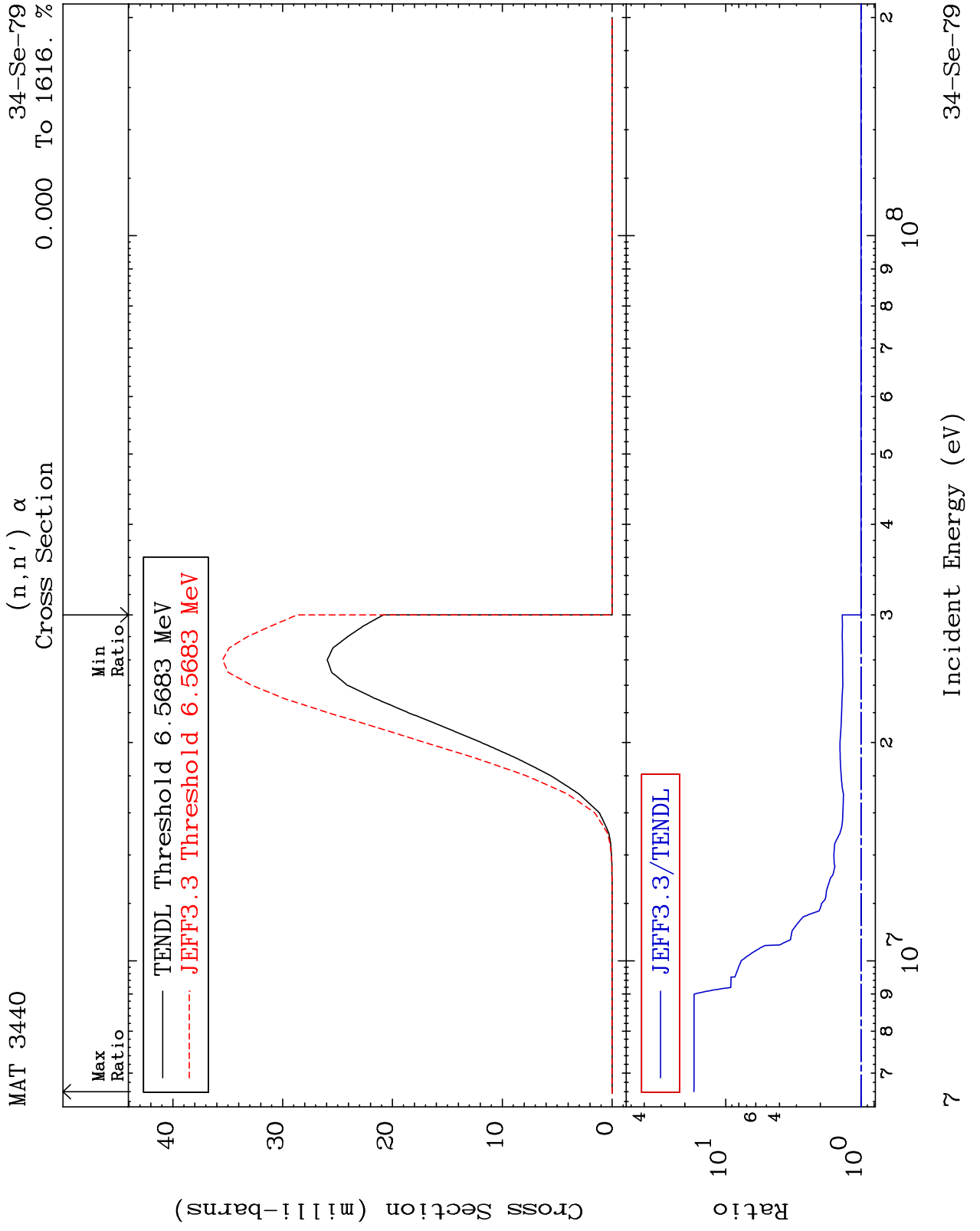
-23.43 To 250.1 %



6

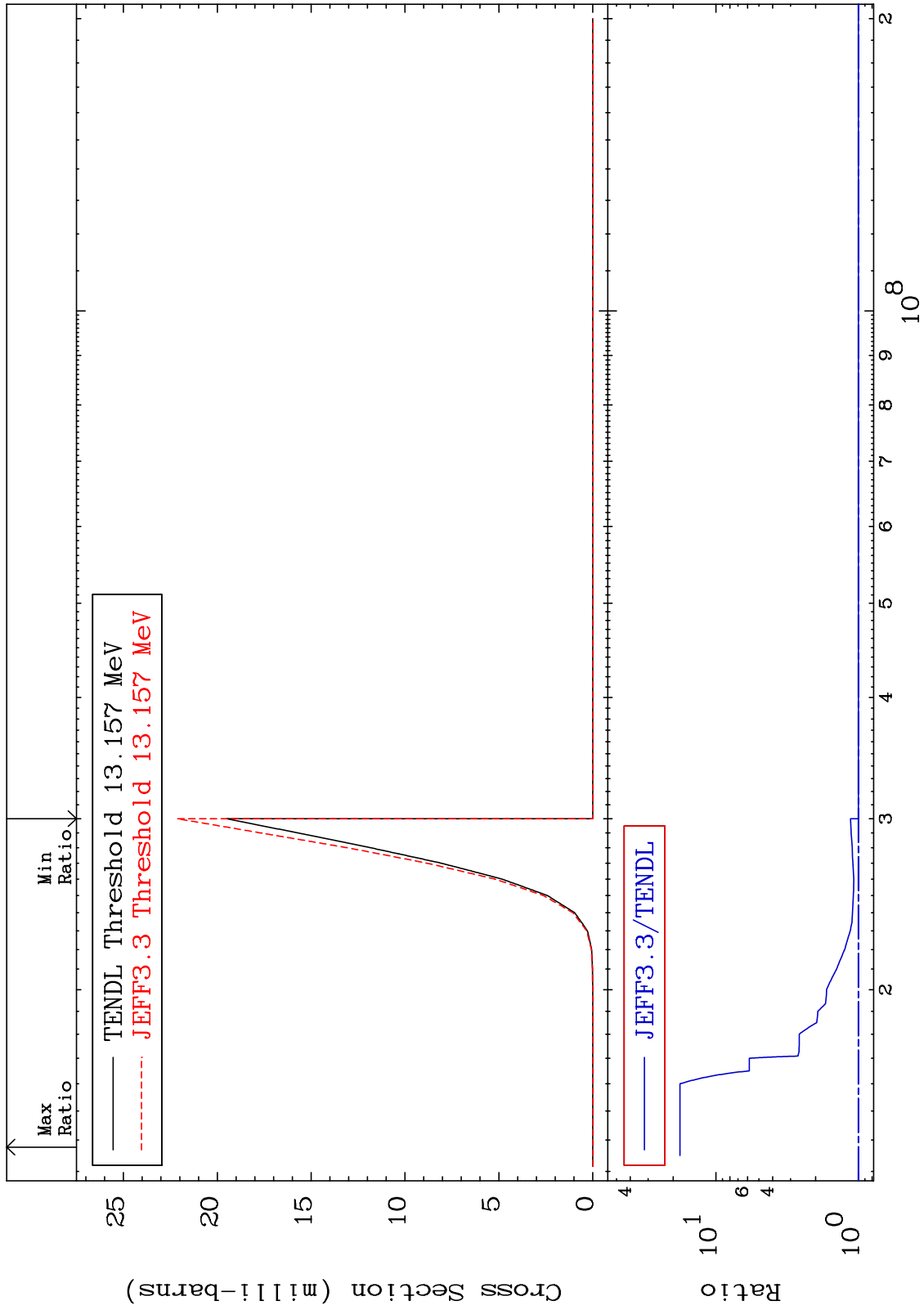
Incident Energy (eV)

<sup>34</sup>Se-79



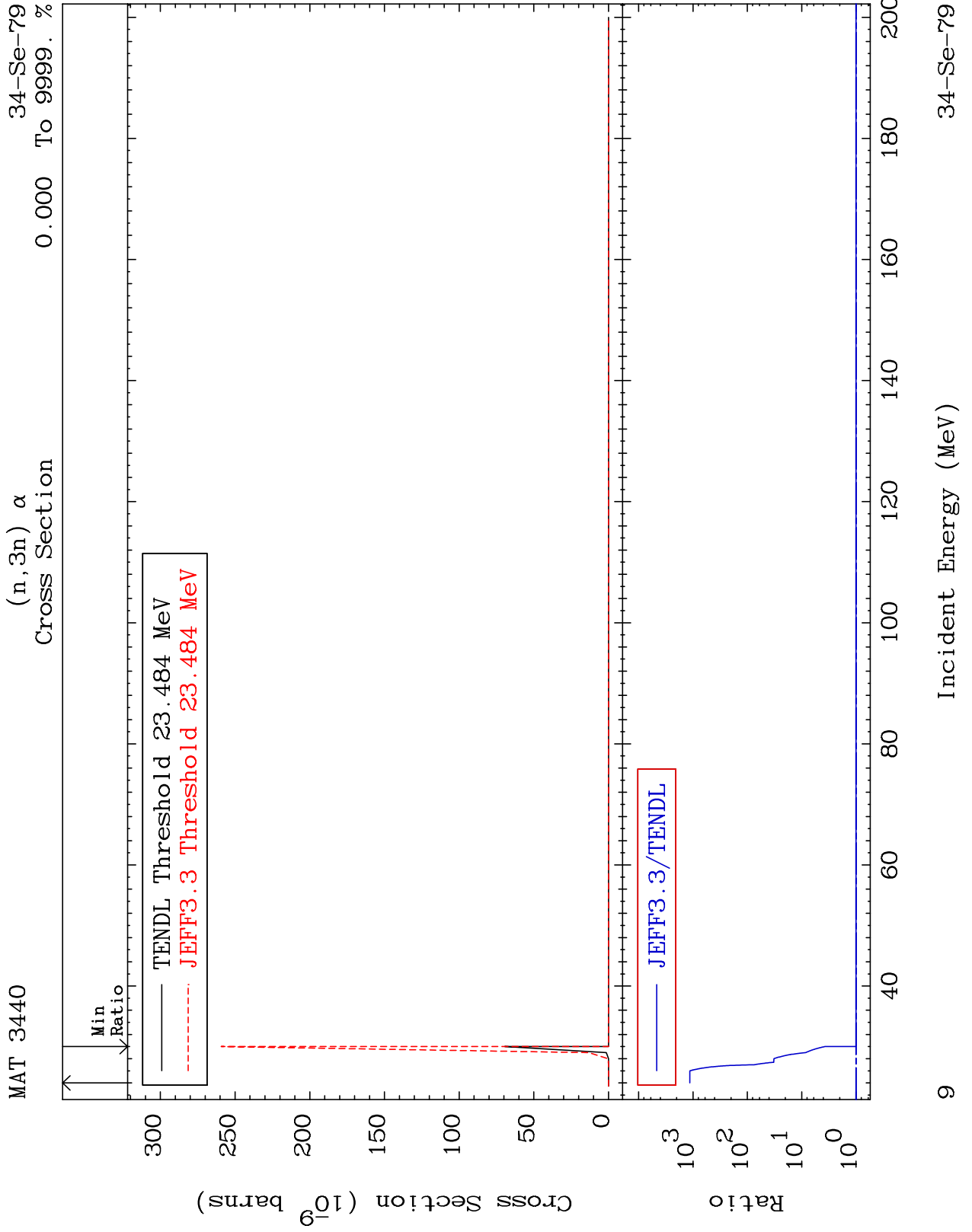


MAT 3440 (n,2n)  $\alpha$  34-Se-79  
Cross Section 0.000 To 1690. %



34-Se-79

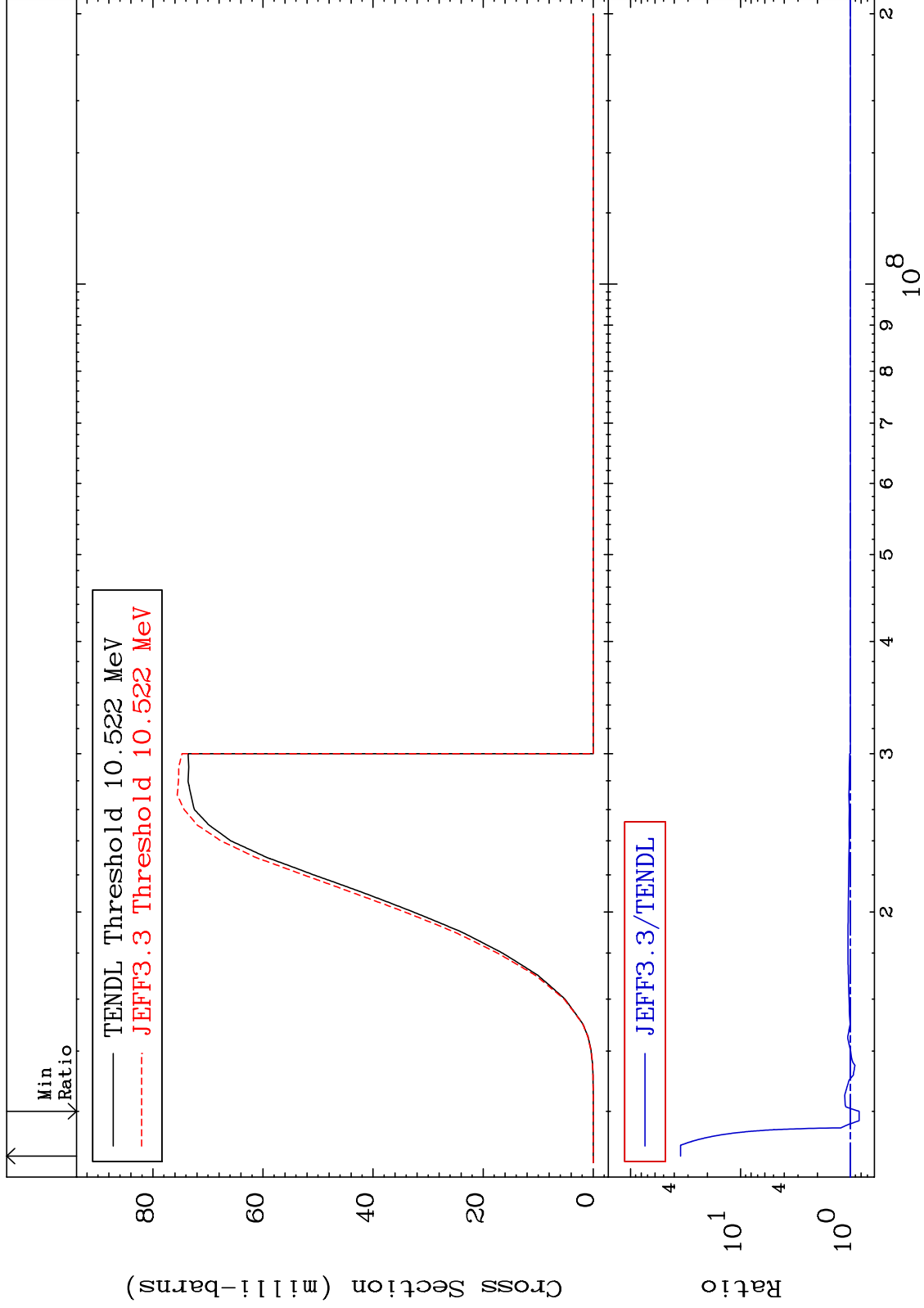
Incident Energy (eV)



MAT 3440

(n,n') p  
Cross Section

<sup>34</sup>Se-79  
-16.65 To 3403. %



10

Incident Energy (eV)

<sup>34</sup>Se-79

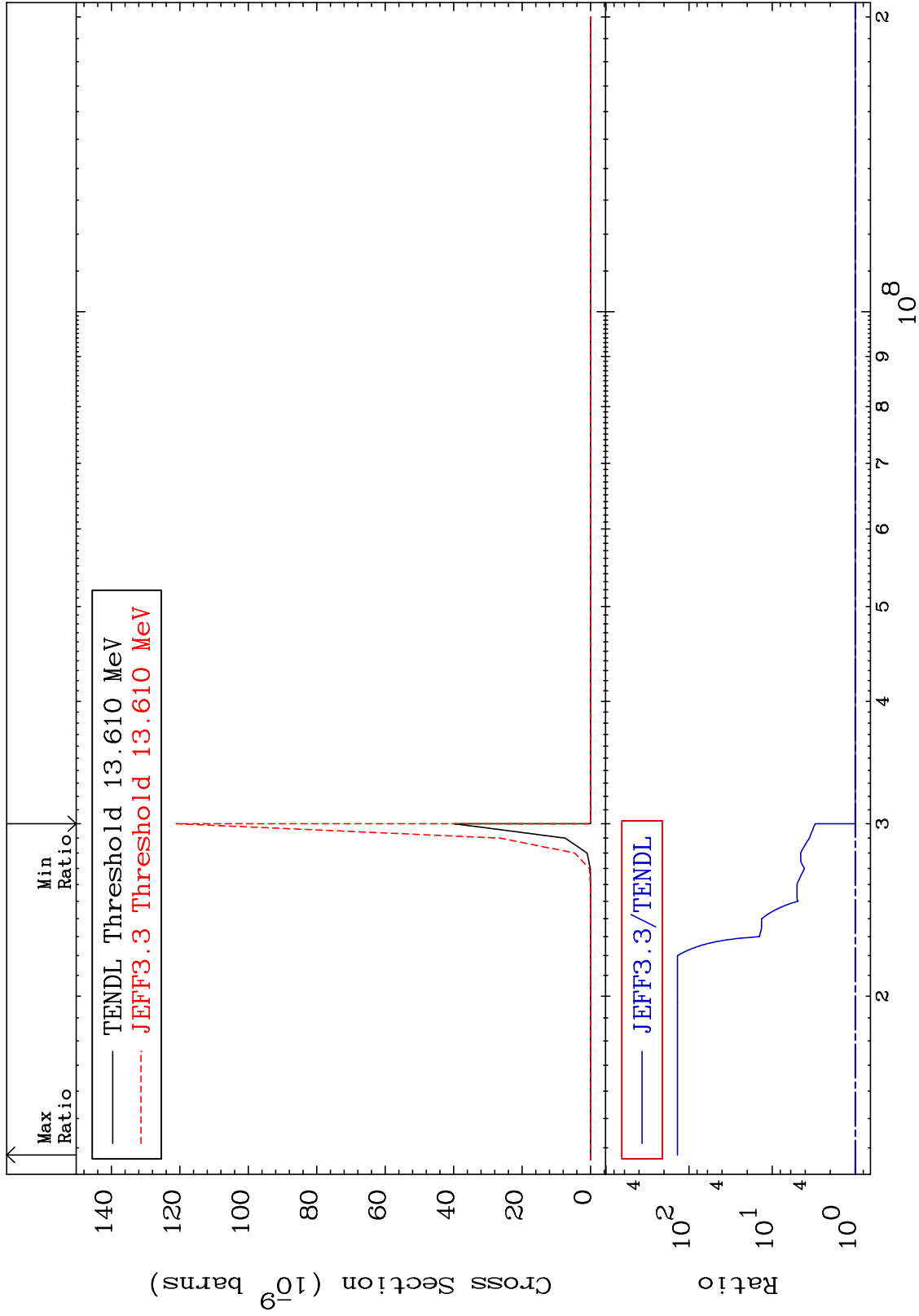
MAT 3440

(n,n') 2α

34-Se-79

Cross Section

0.000 To 9999. %



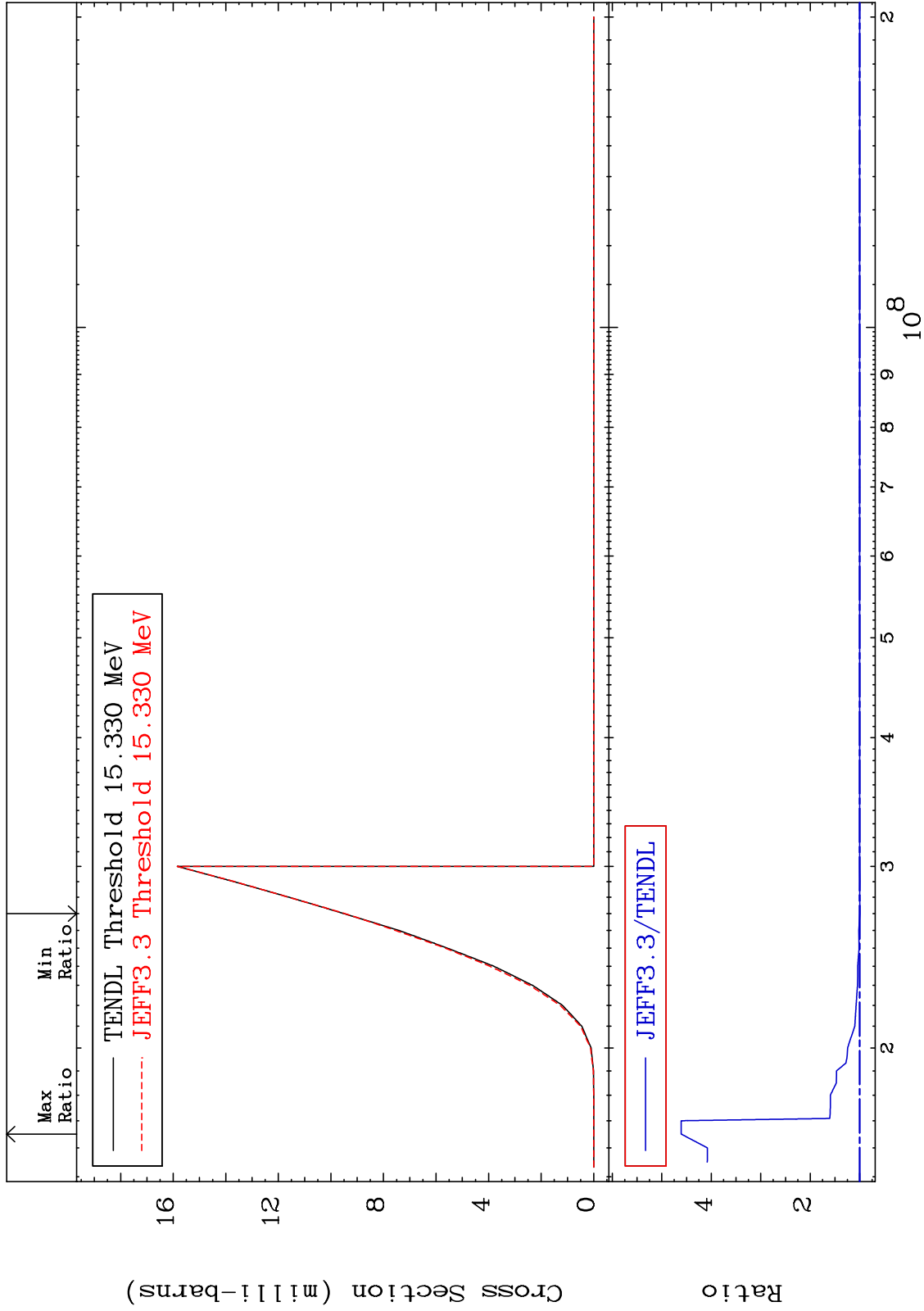
MAT 3440

(n, n') d

<sup>34</sup>Se-79

Cross Section

-0.467 To 360.8 %



12

Incident Energy (eV)

<sup>34</sup>Se-79

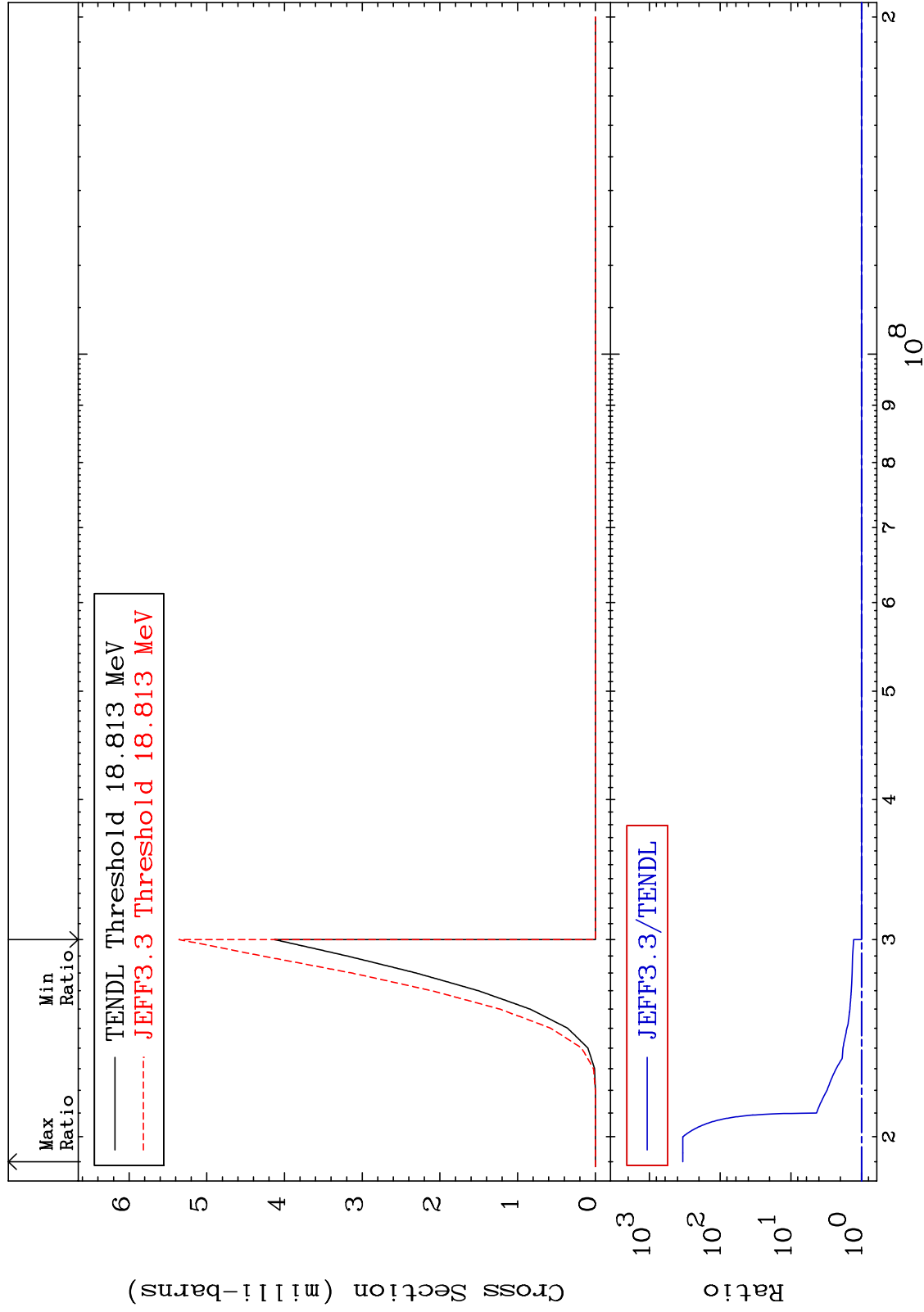
MAT 3440

(n,n') t

<sup>34</sup>Se-79

Cross Section

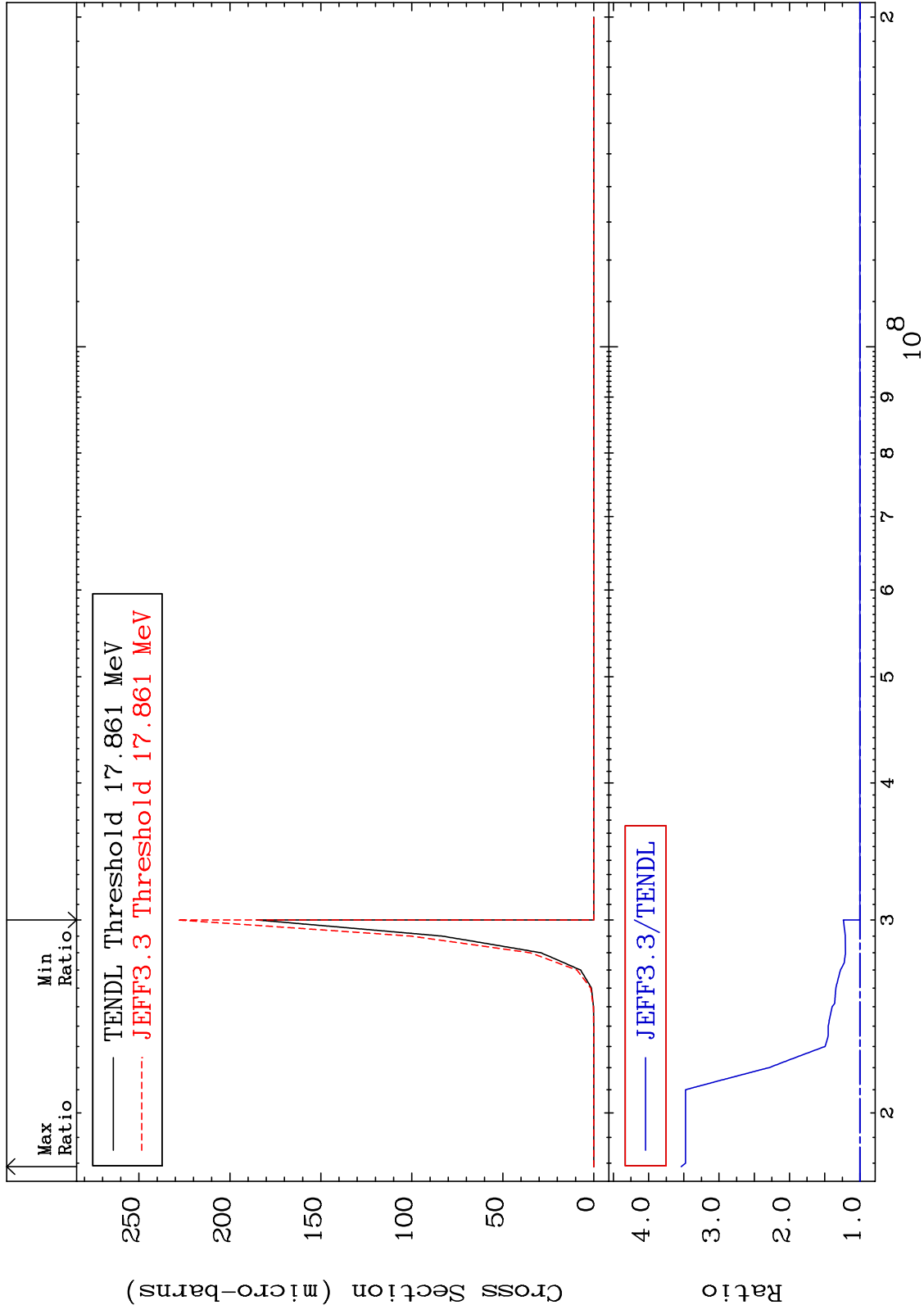
0.000 To 9999. %



MAT 3440

(n, n') He-3  
Cross Section

34-Se-79  
0.000 To 253.7 %



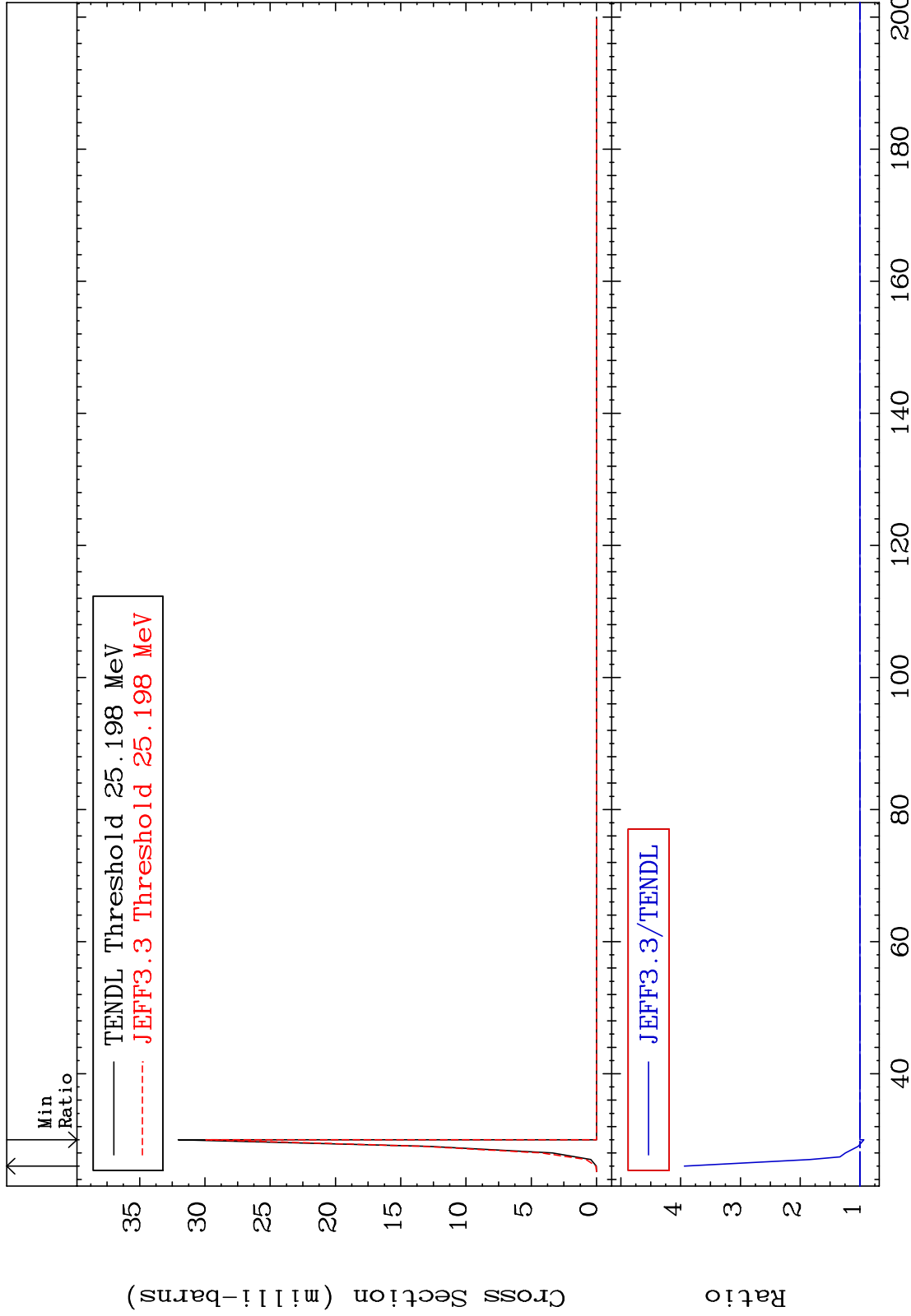
MAT 3440

(n, 4n)

<sup>34</sup>Se-79

Cross Section

-6.630 To 293.7 %



15

Incident Energy (MeV)

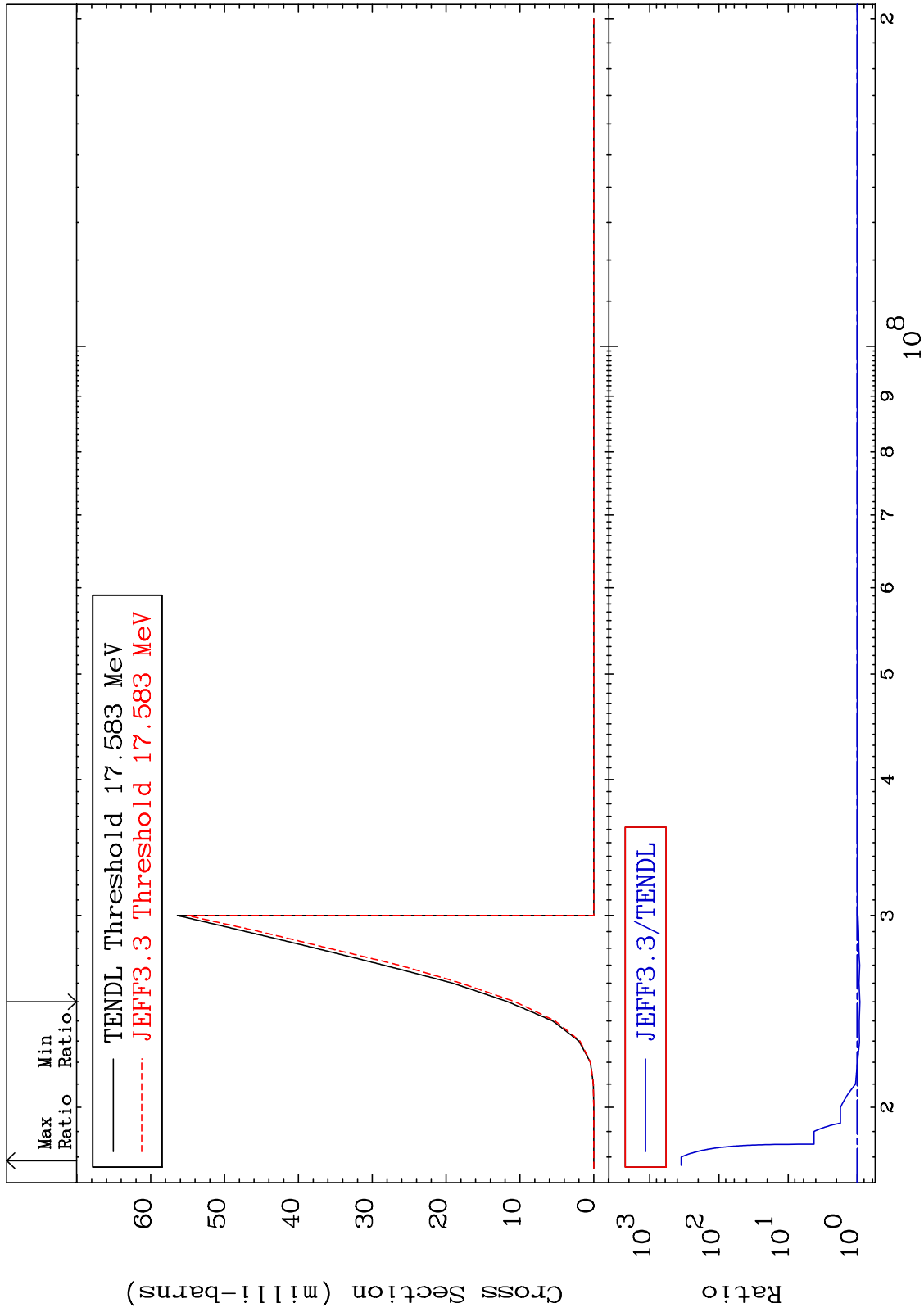
<sup>34</sup>Se-79



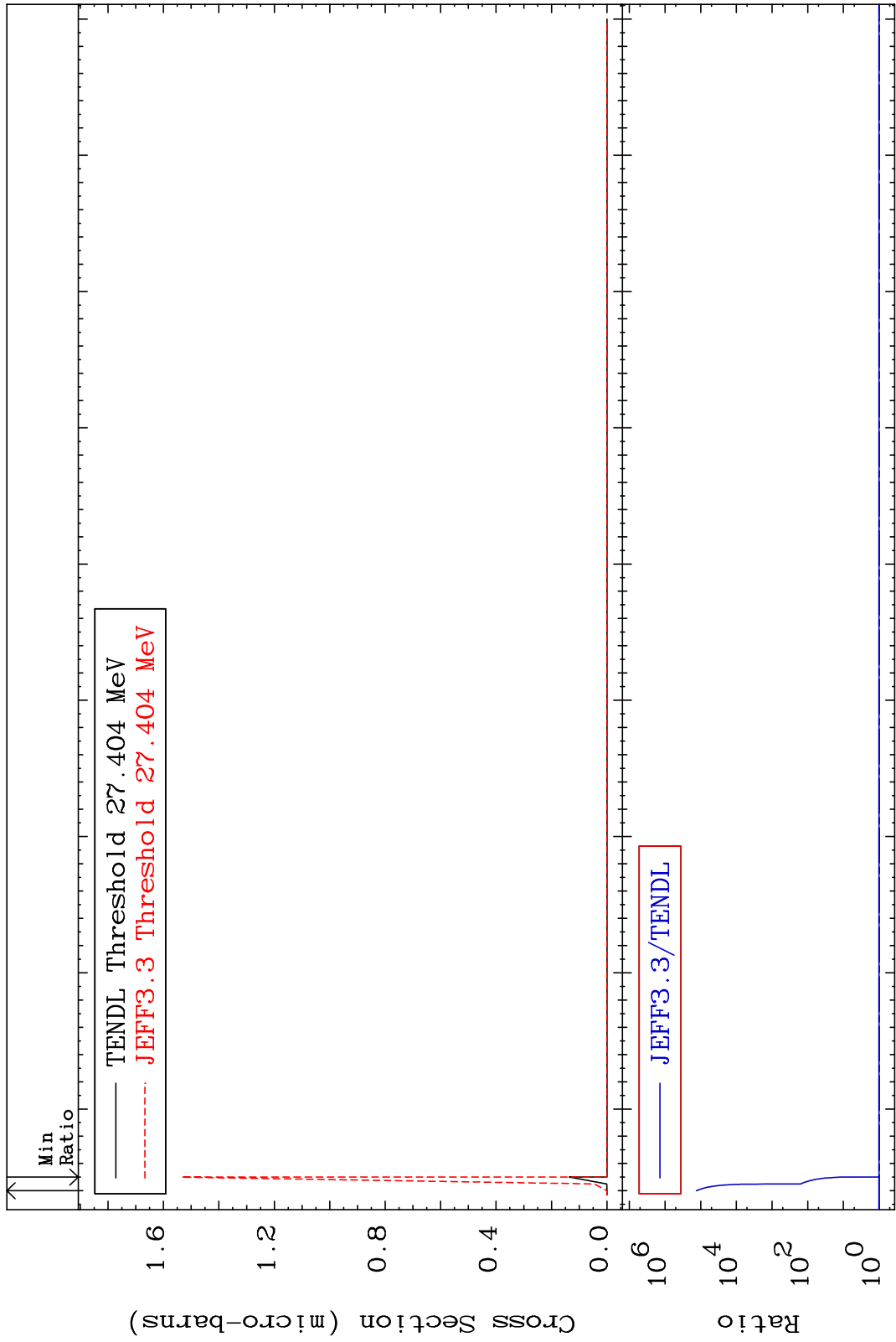
MAT 3440

(n,2n) p  
Cross Section

34-Se-79  
-8.385 To 9999. %



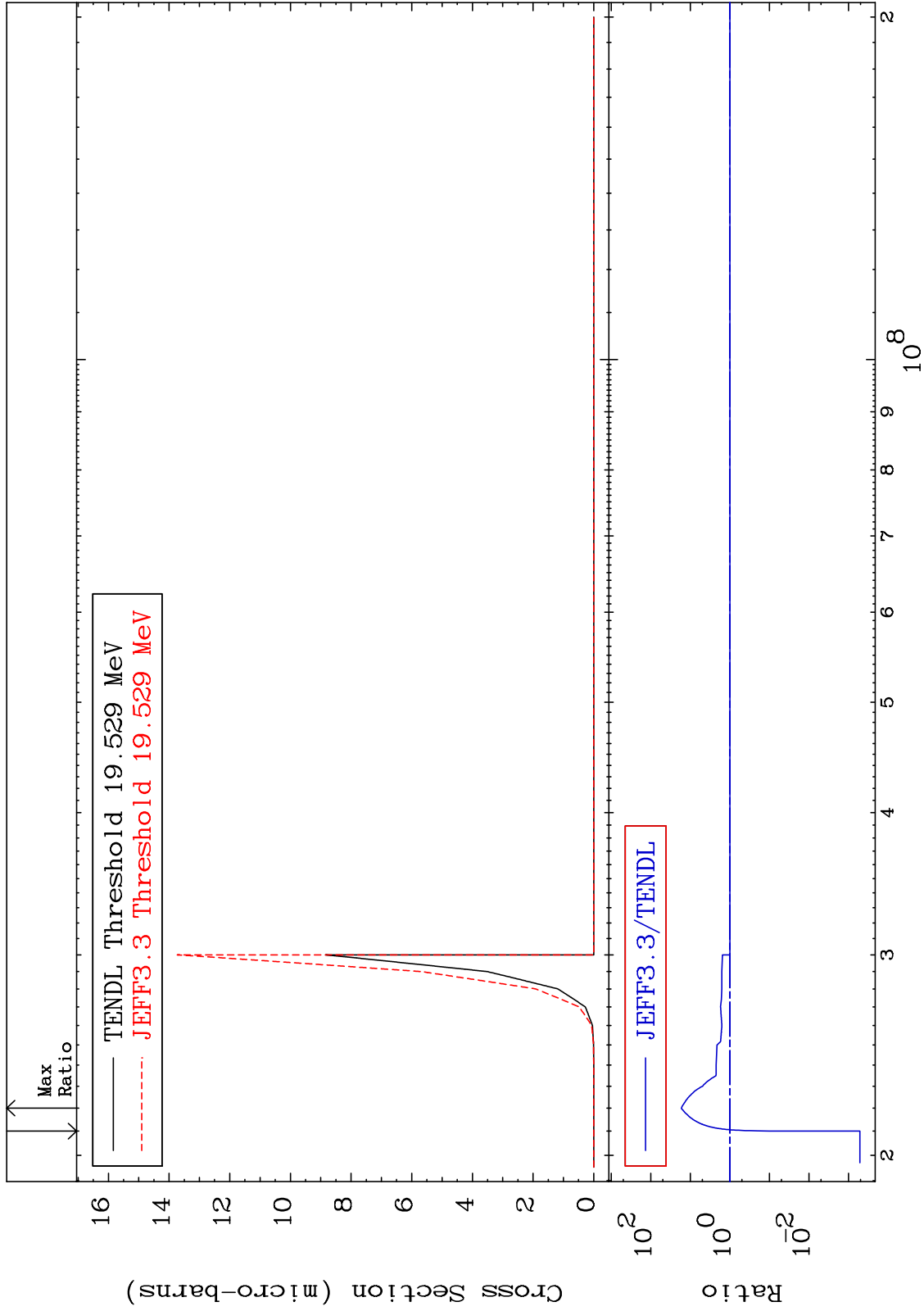
MAT 3440 (n,3n) p 34-Se-79  
 Cross Section 0.000 To 9999. %



MAT 3440

(n,2n) p  
Cross Section

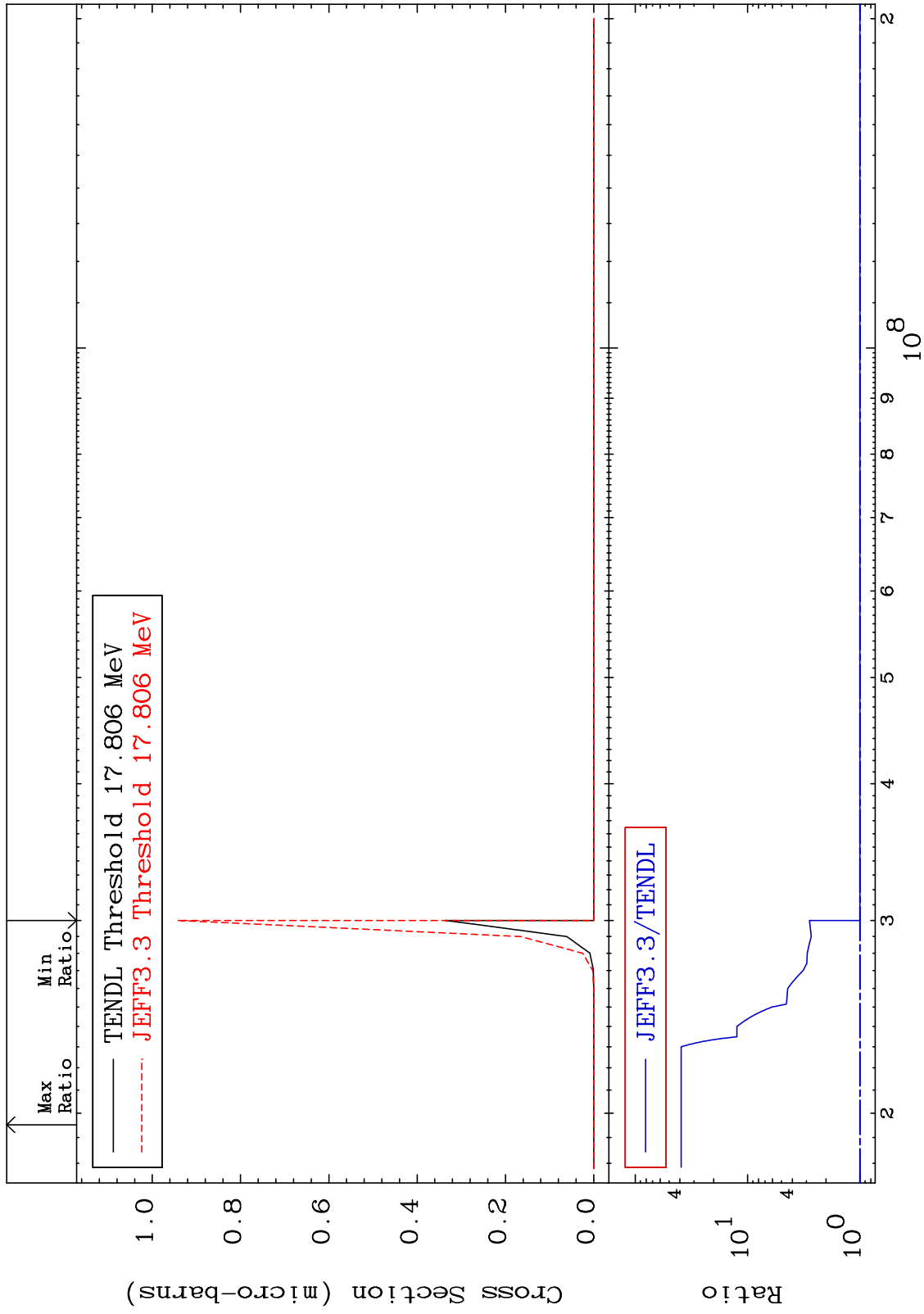
<sup>34</sup>Se-79  
-99.95 To 1609. %



MAT 3440

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

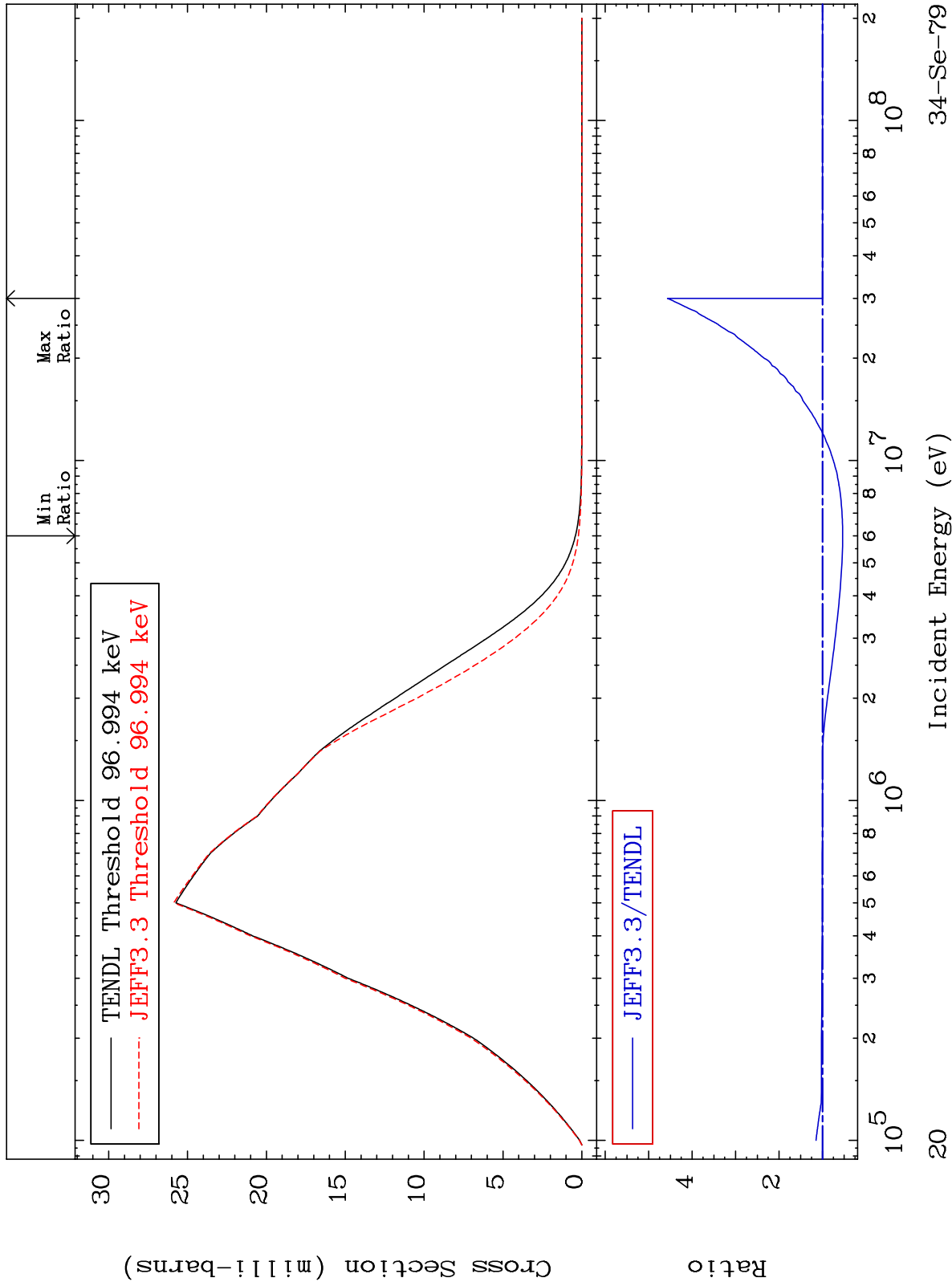
34-Se-79  
0.000 To 3796. %



MAT 3440

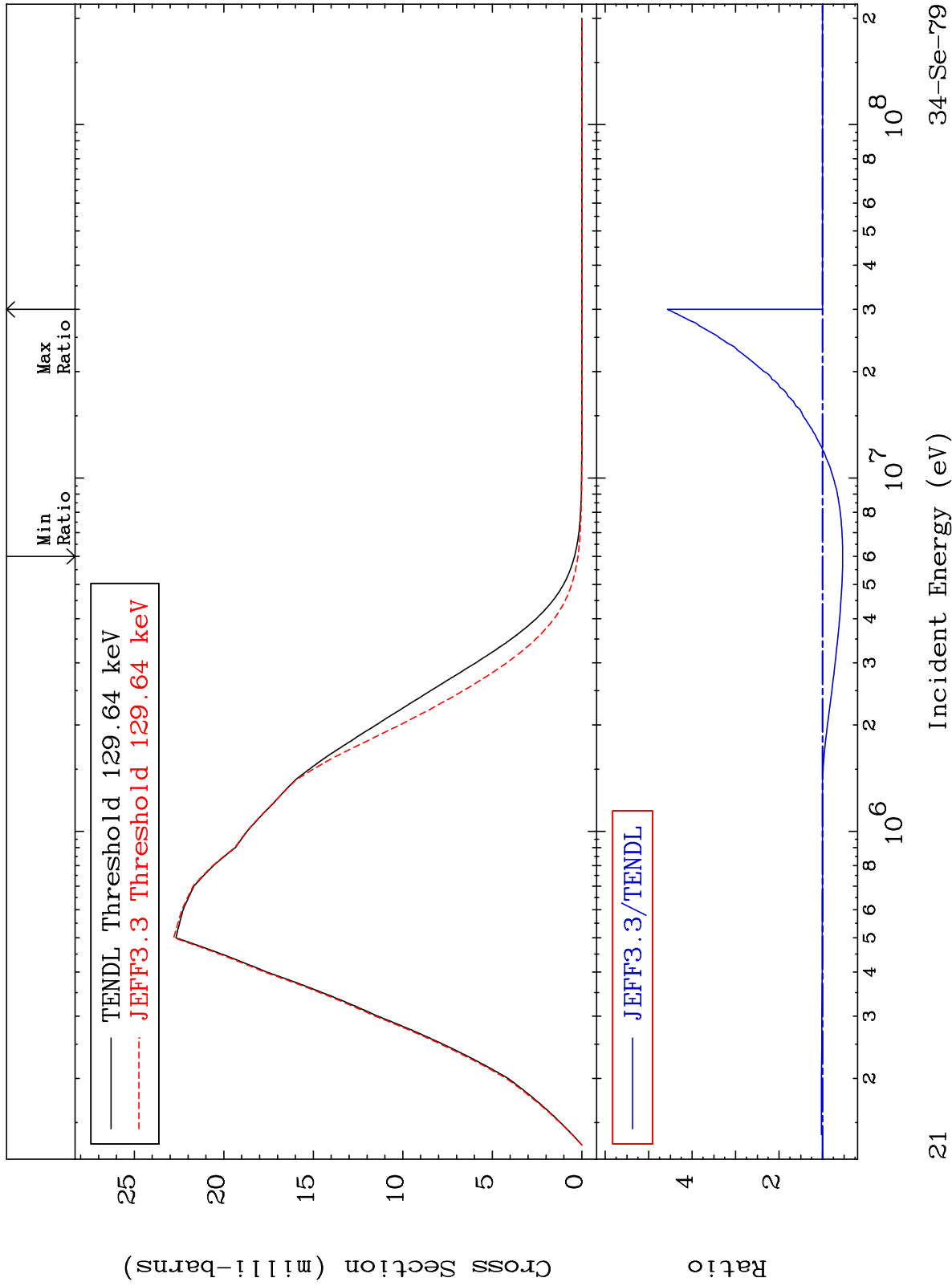
MT= 51 (n,n') Level  
Cross Section

34-Se-79  
-46.47 To 356.6 %

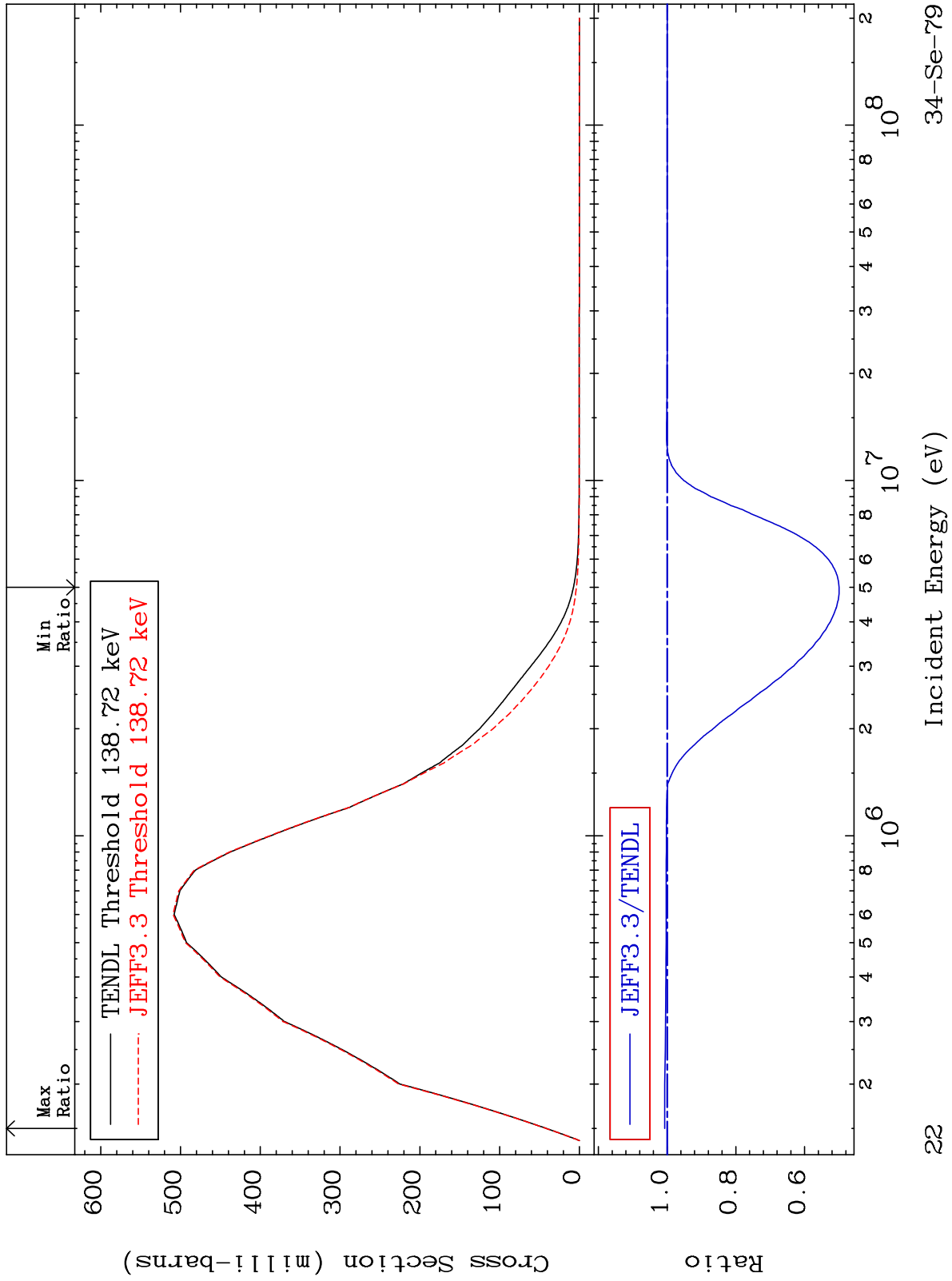


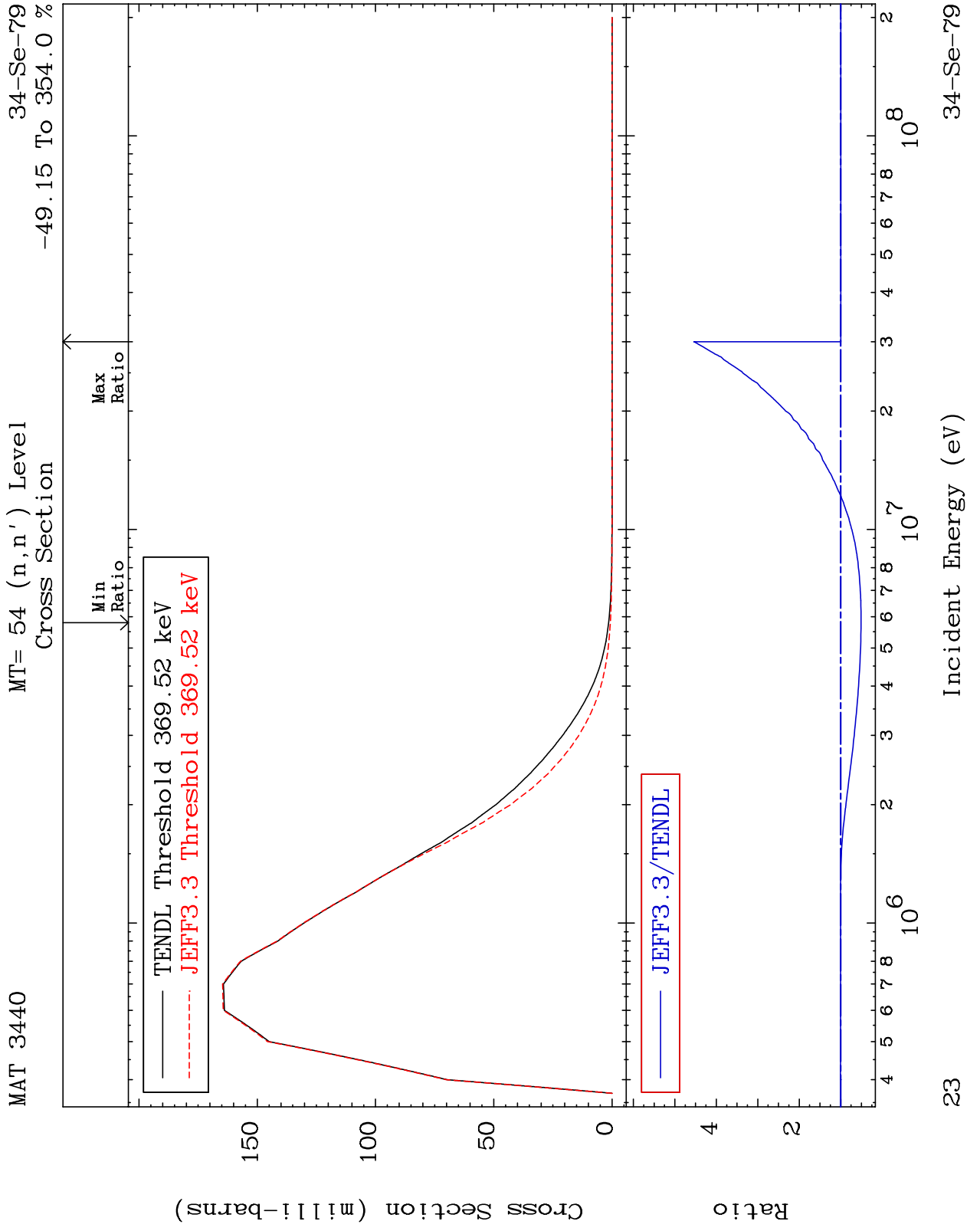
34-Se-79

MAT 3440 MT= 52 (n,n') Level Cross Section -46.45 To 356.6 % 34-Se-79



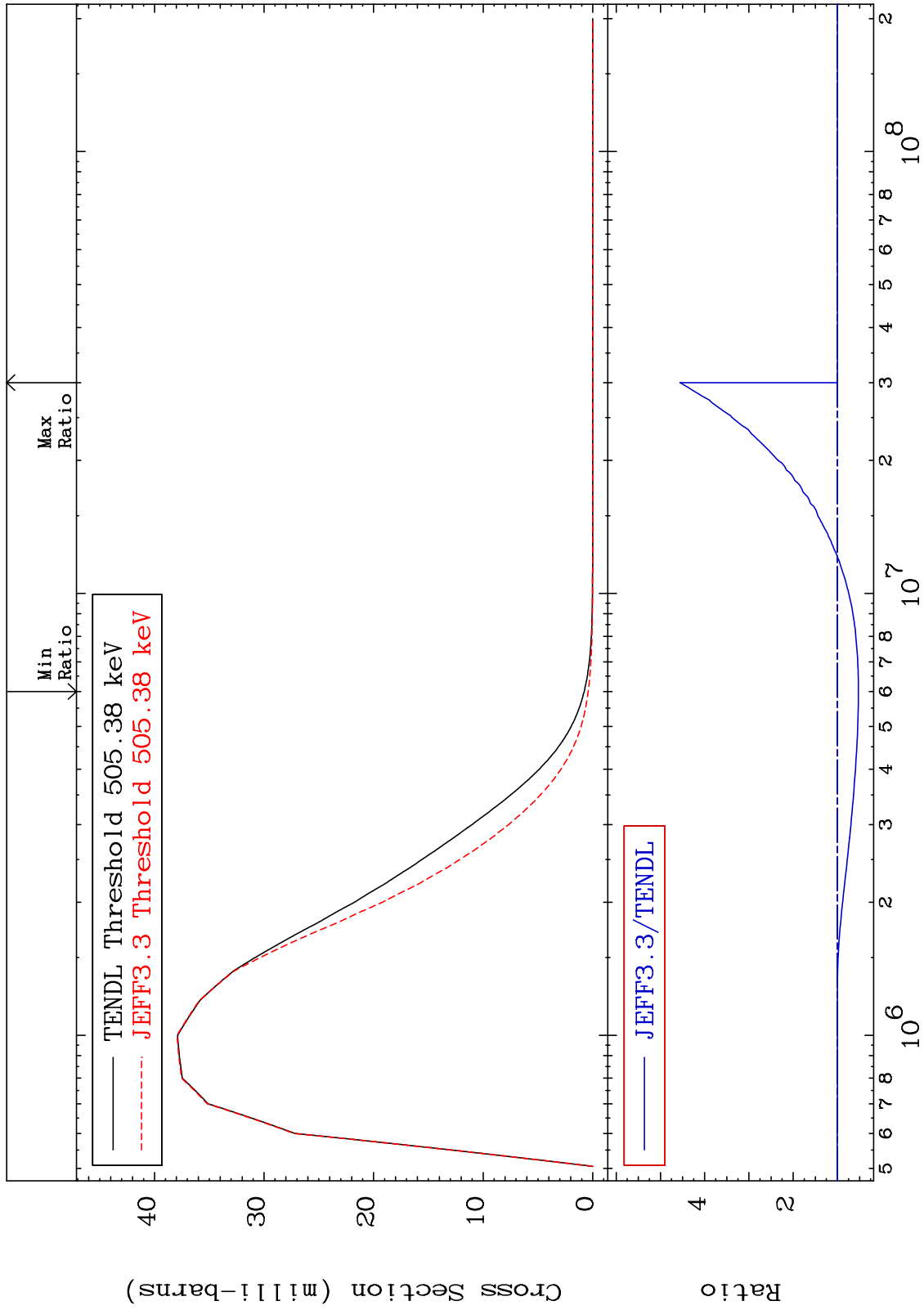
MAT 3440 MT= 53 (n,n') Level Cross Section 34-Se-79  
 -50.06 To 0.698 %

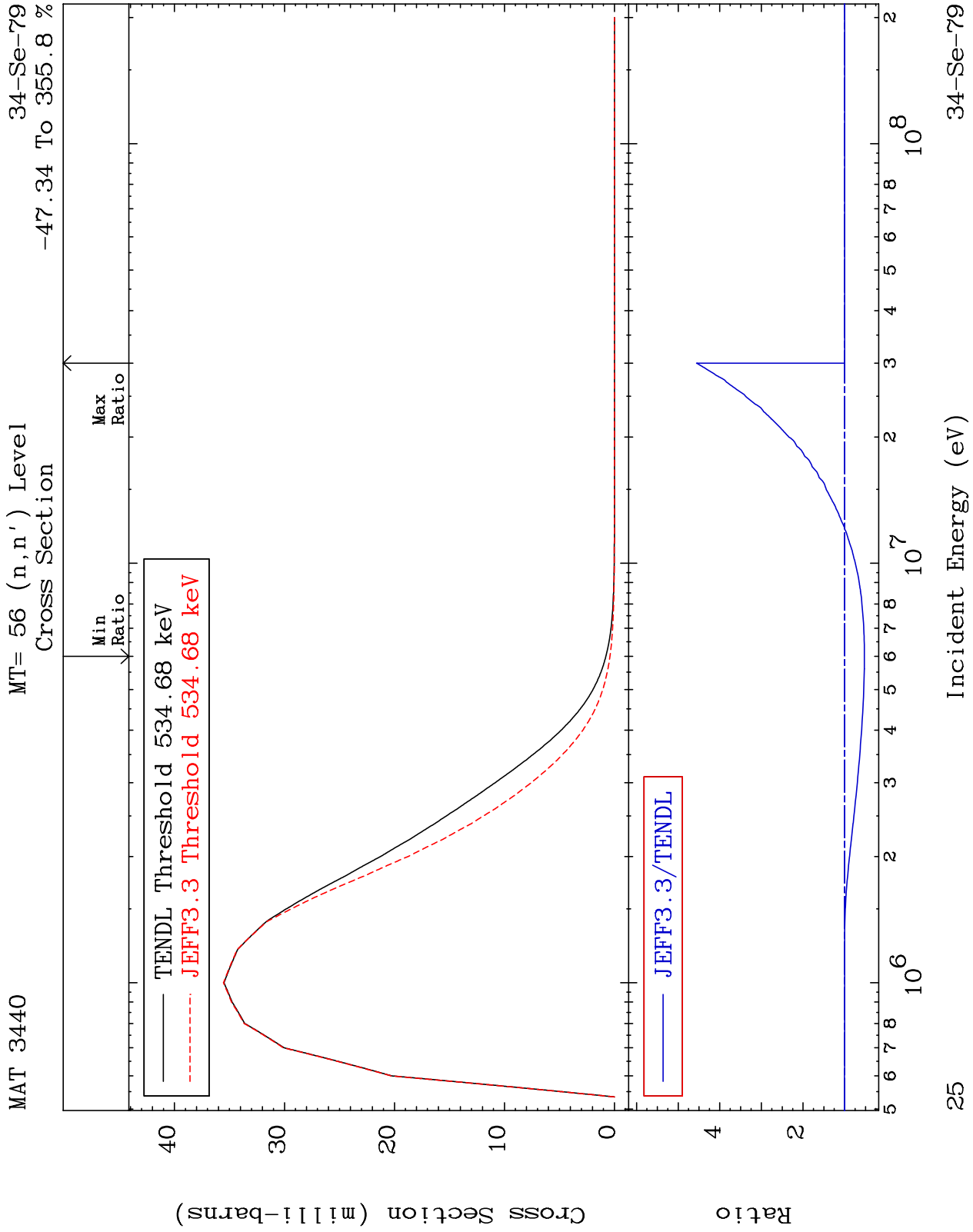


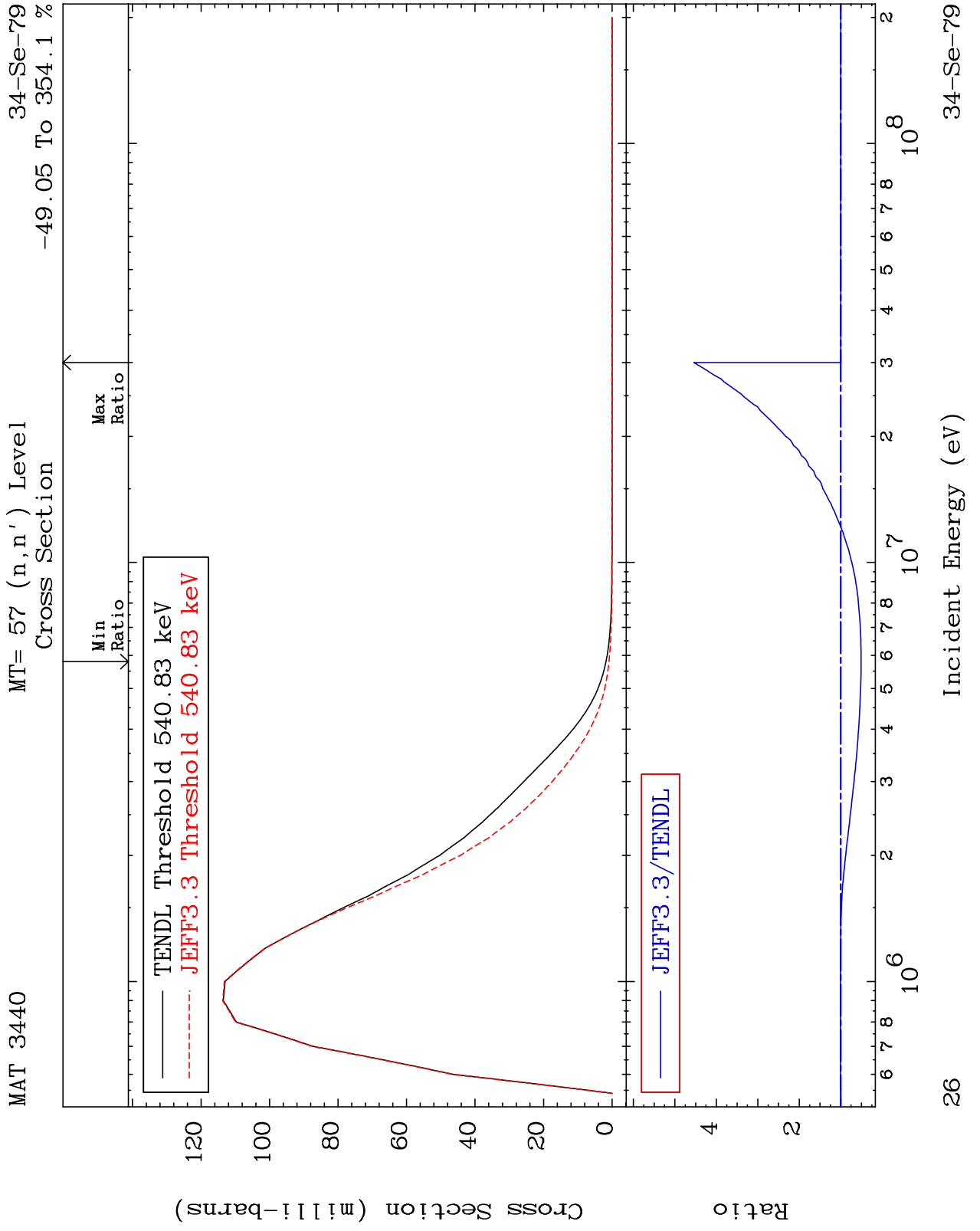


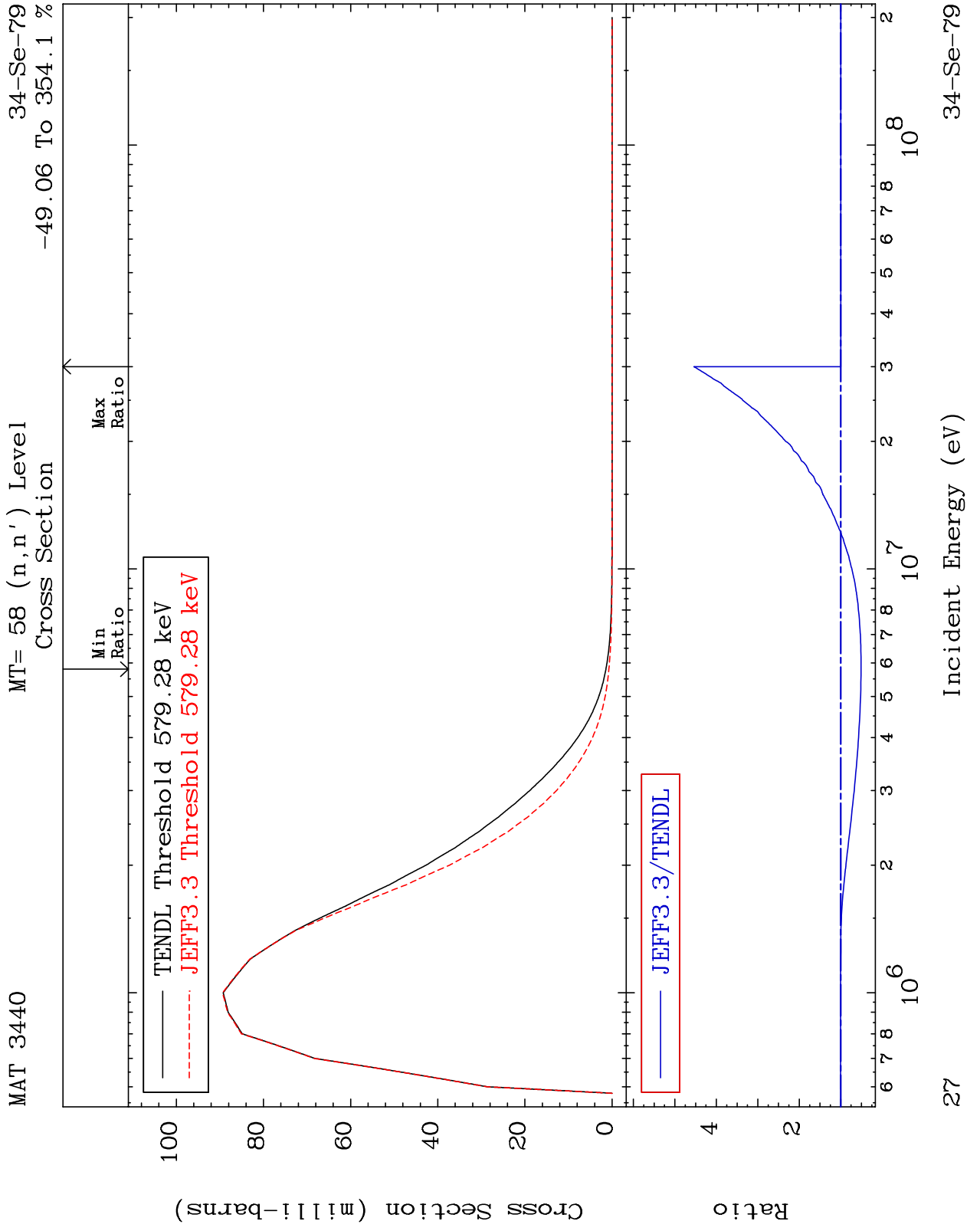


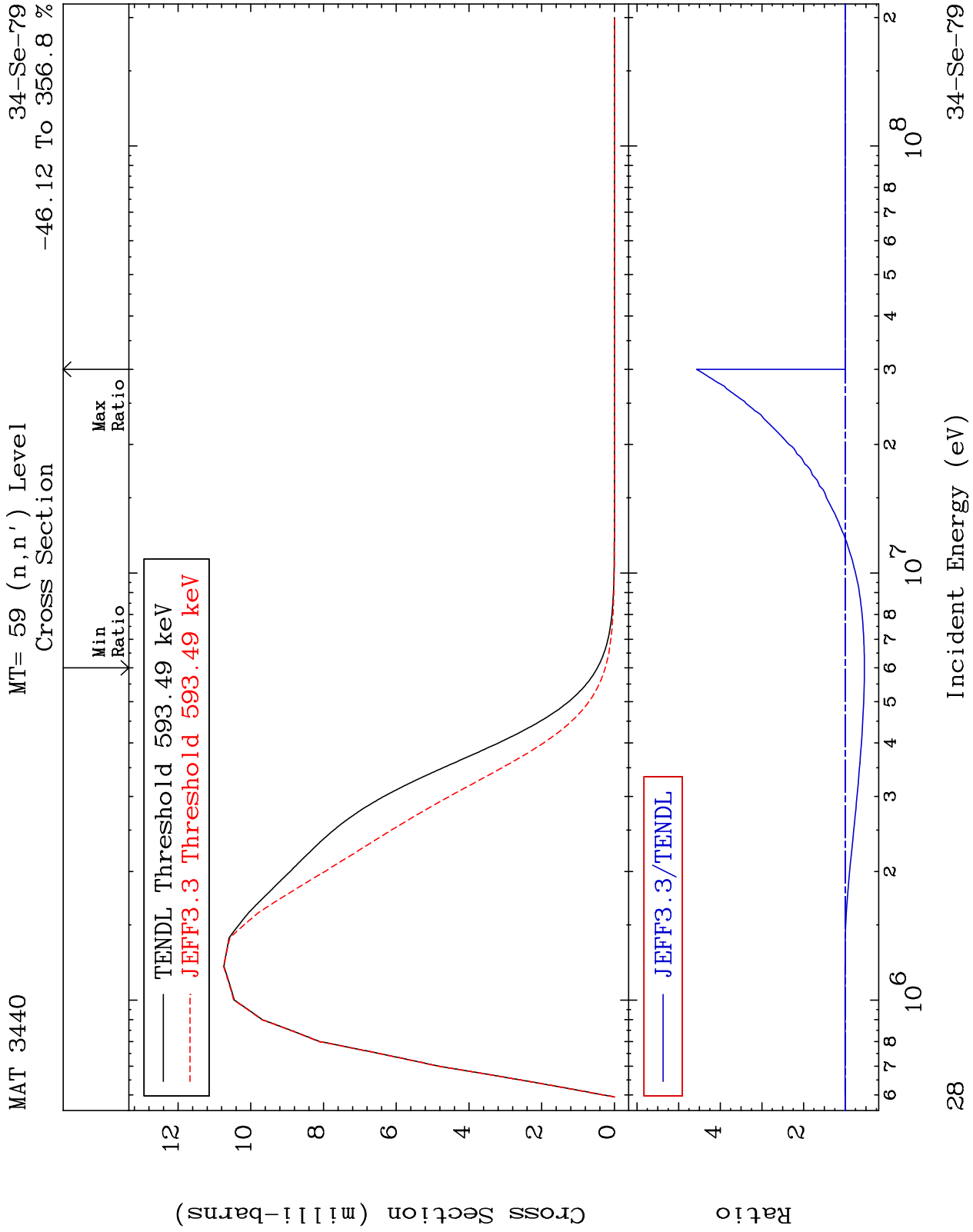
MAT 3440 MT= 55 (n,n') Level Cross Section -47.36 To 355.7 % 34-Se-79

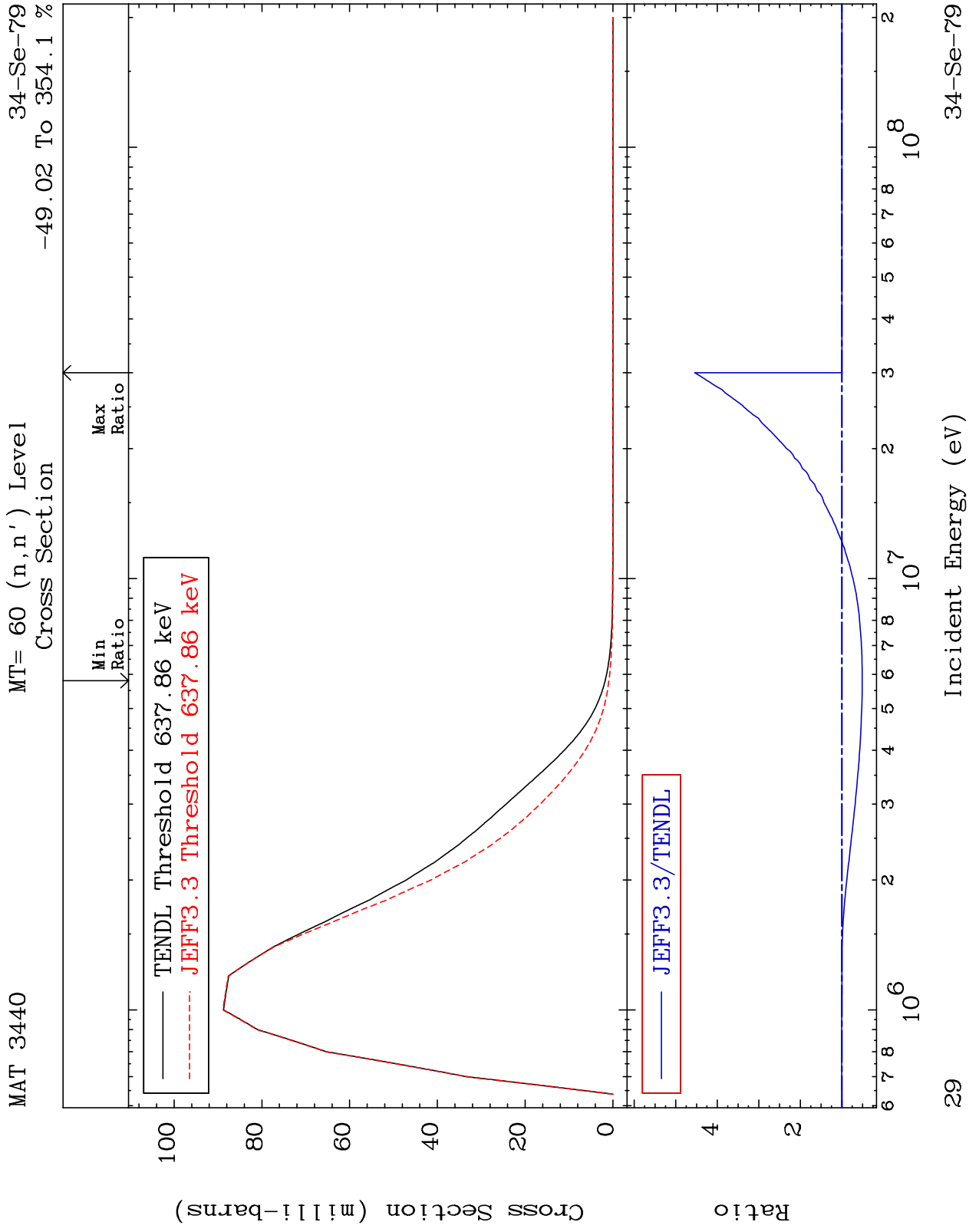








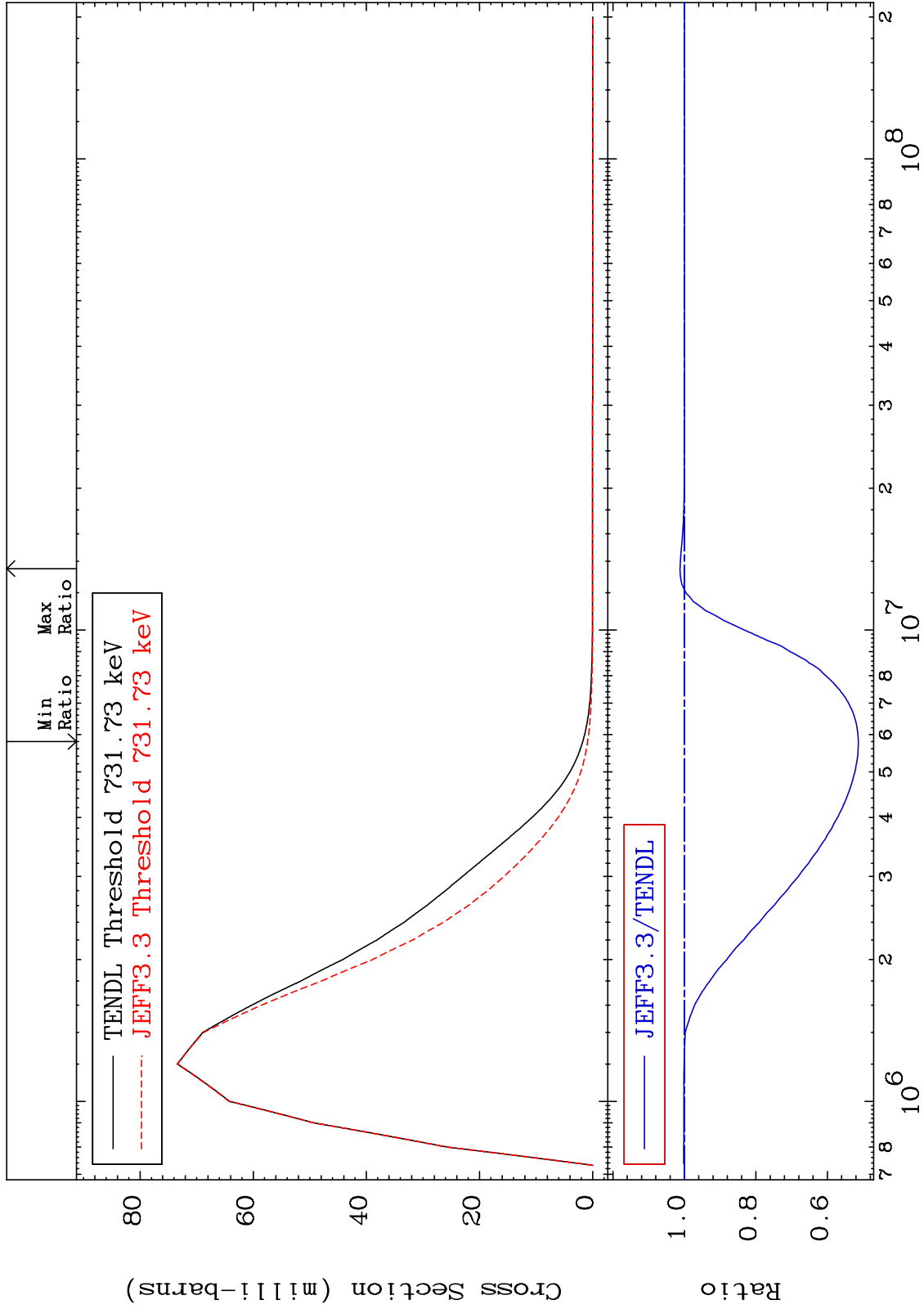




MAT 3440

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

34-Se-79  
-48.68 To 1.233 %



30

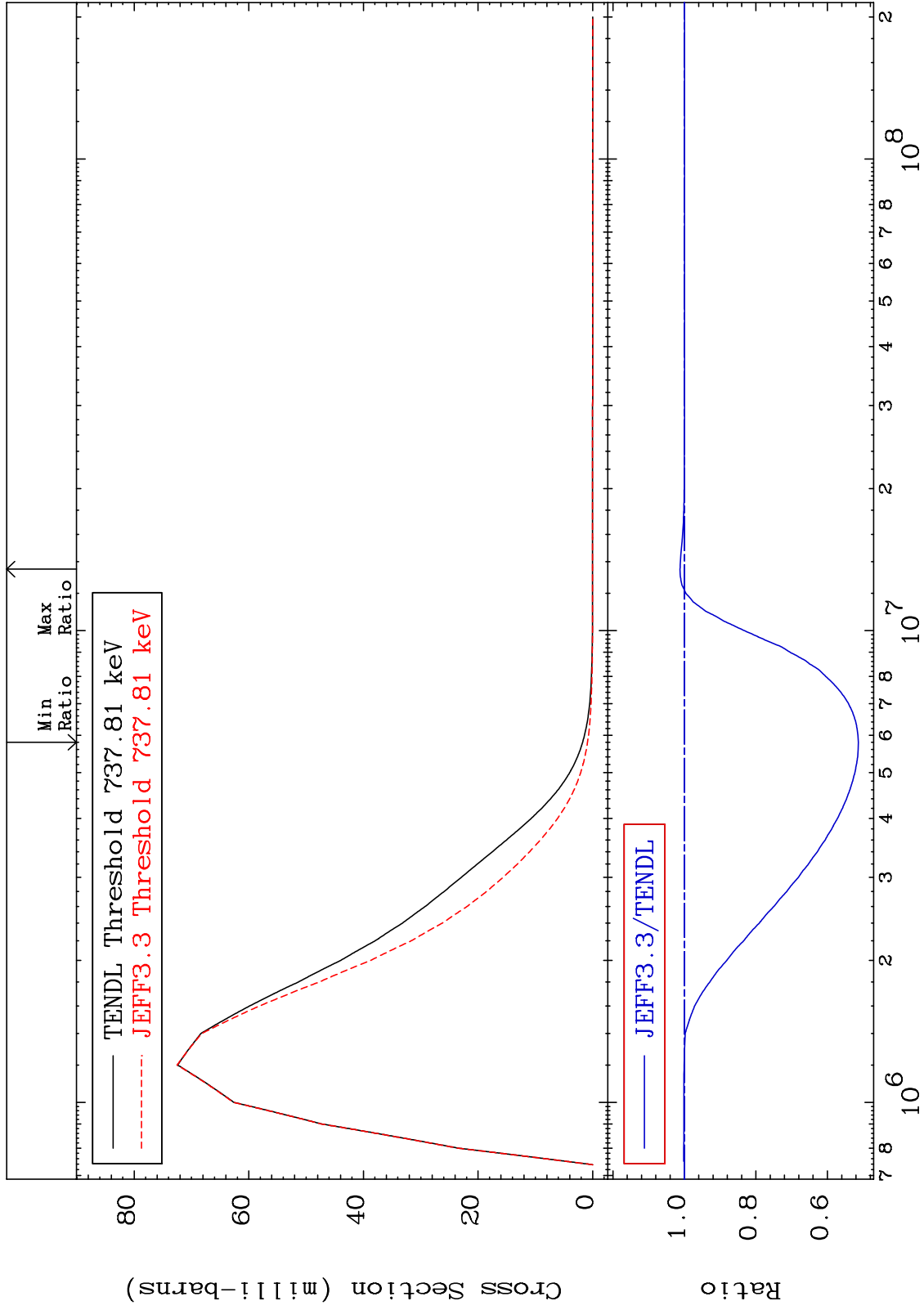
Incident Energy (eV)

34-Se-79

MAT 3440

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

34-Se-79  
-48.68 To 1.233 %



31

Incident Energy (eV)

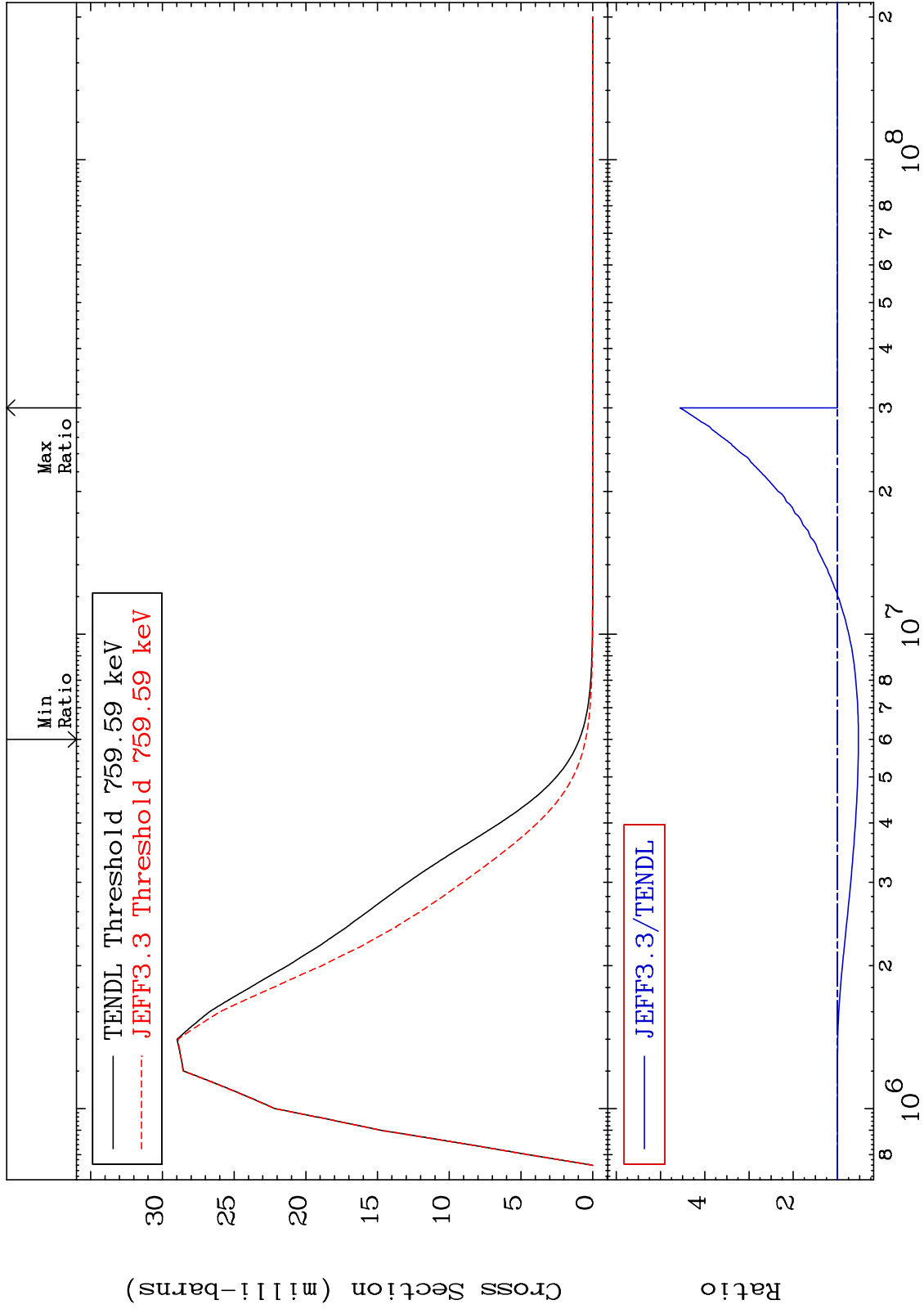
34-Se-79



MAT 3440

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

34-Se-79  
-47.22 To 355.9 %

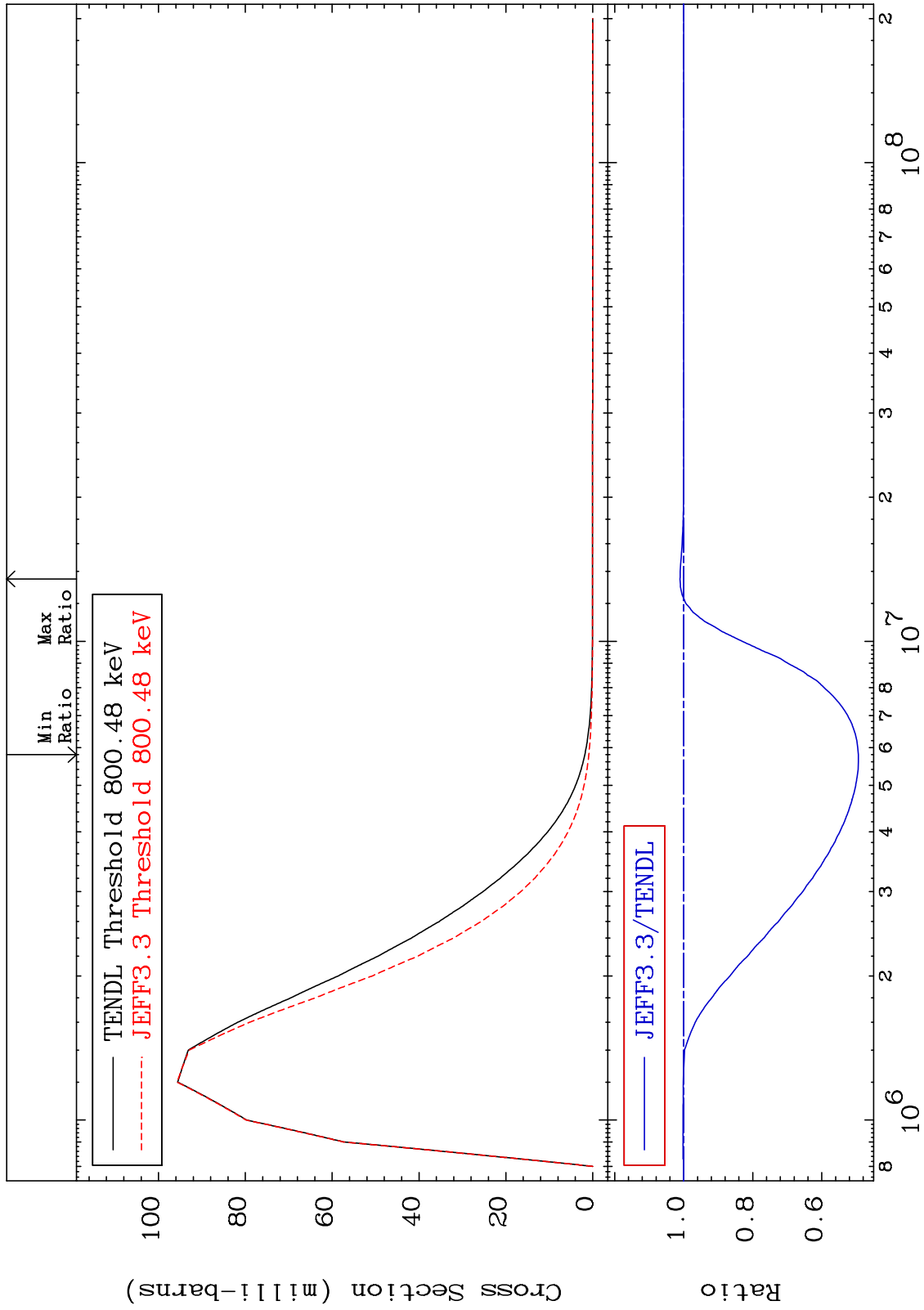


32

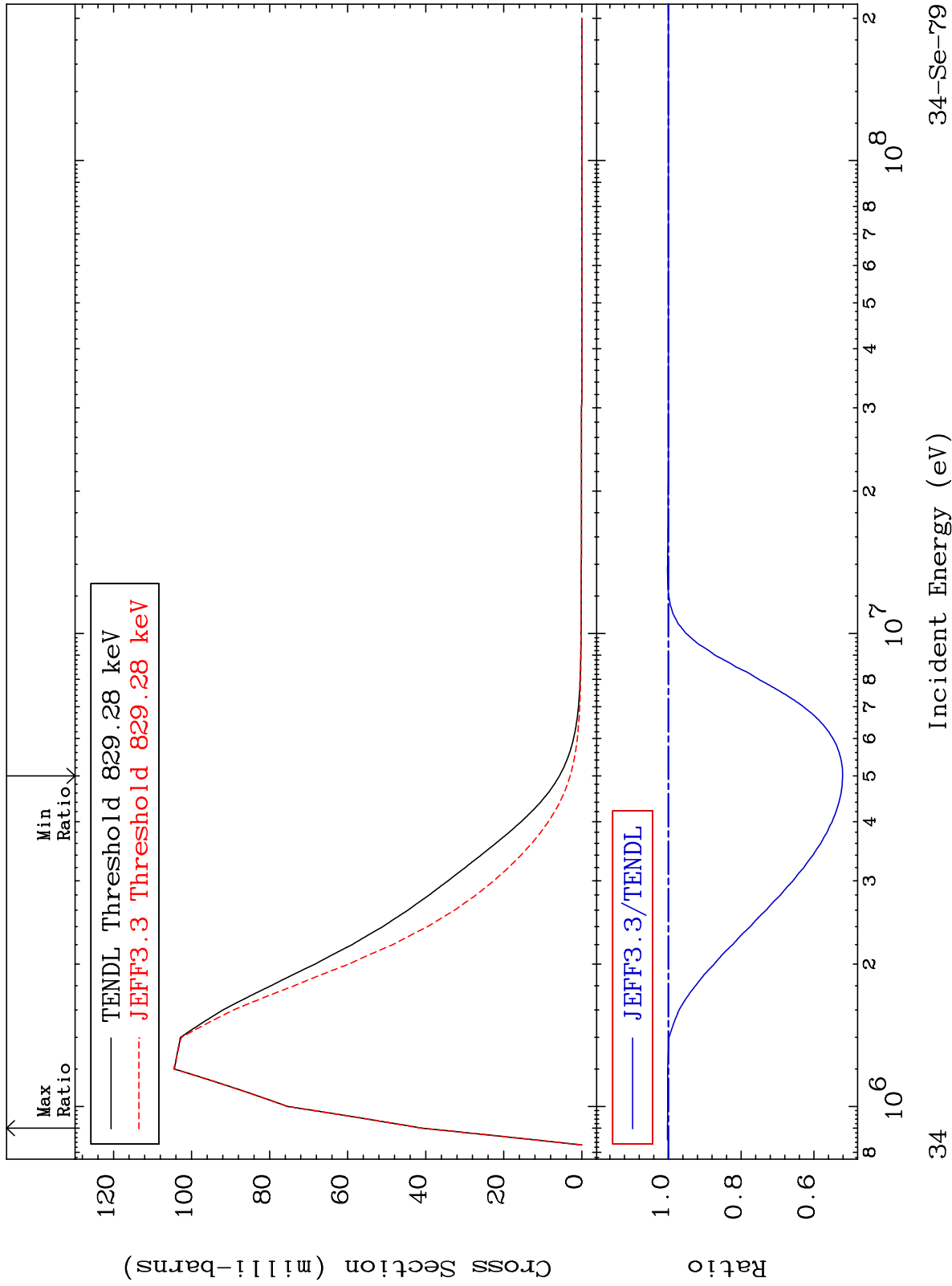
Incident Energy (eV)

34-Se-79

MAT 3440 MT= 64 (n,n') Level Cross Section 34-Se-79  
 -50.60 To 1.067 %



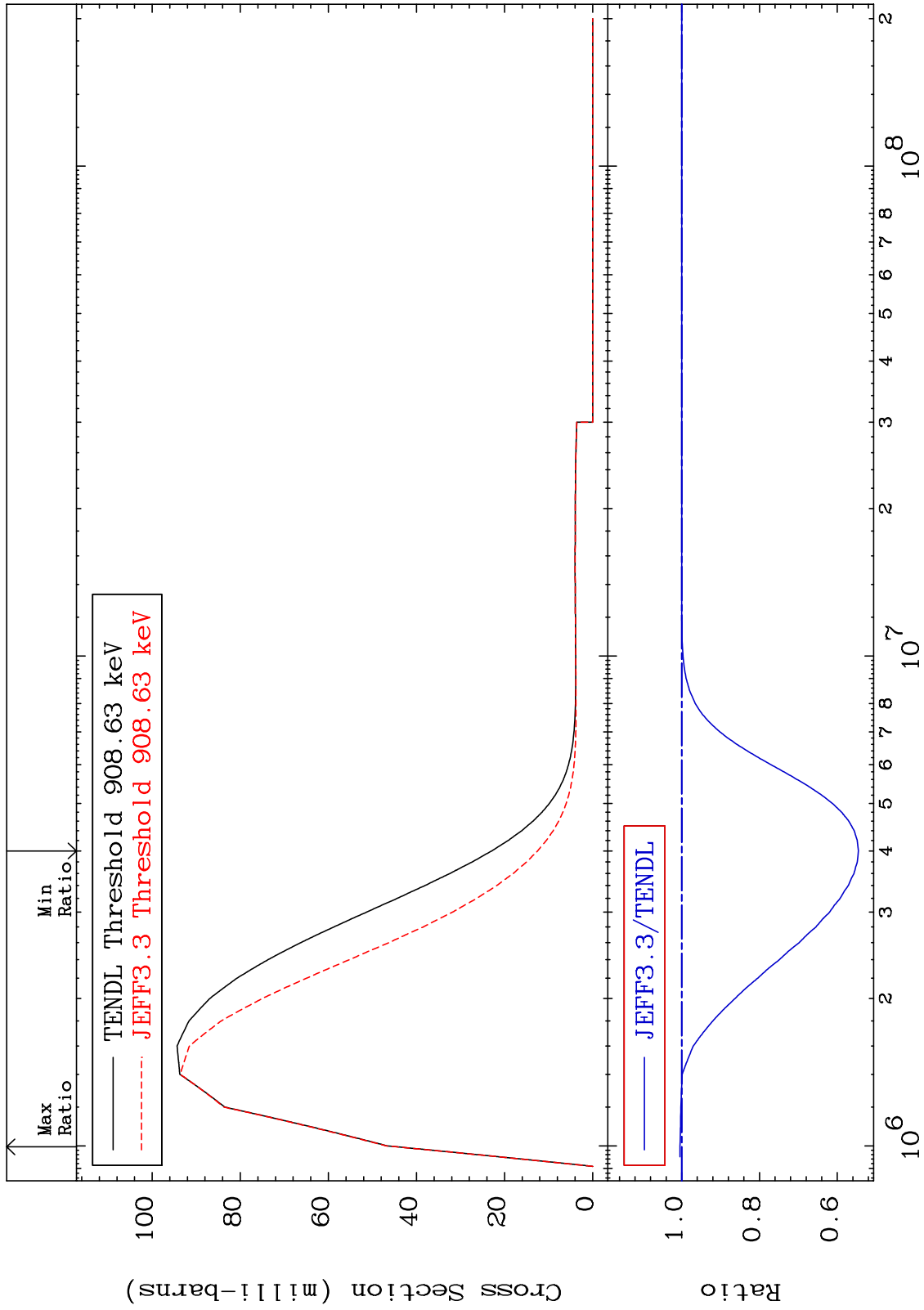
MAT 3440 MT= 65 (n,n') Level Cross Section 34-Se-79  
 -47.87 To 0.199 %



MAT 3440

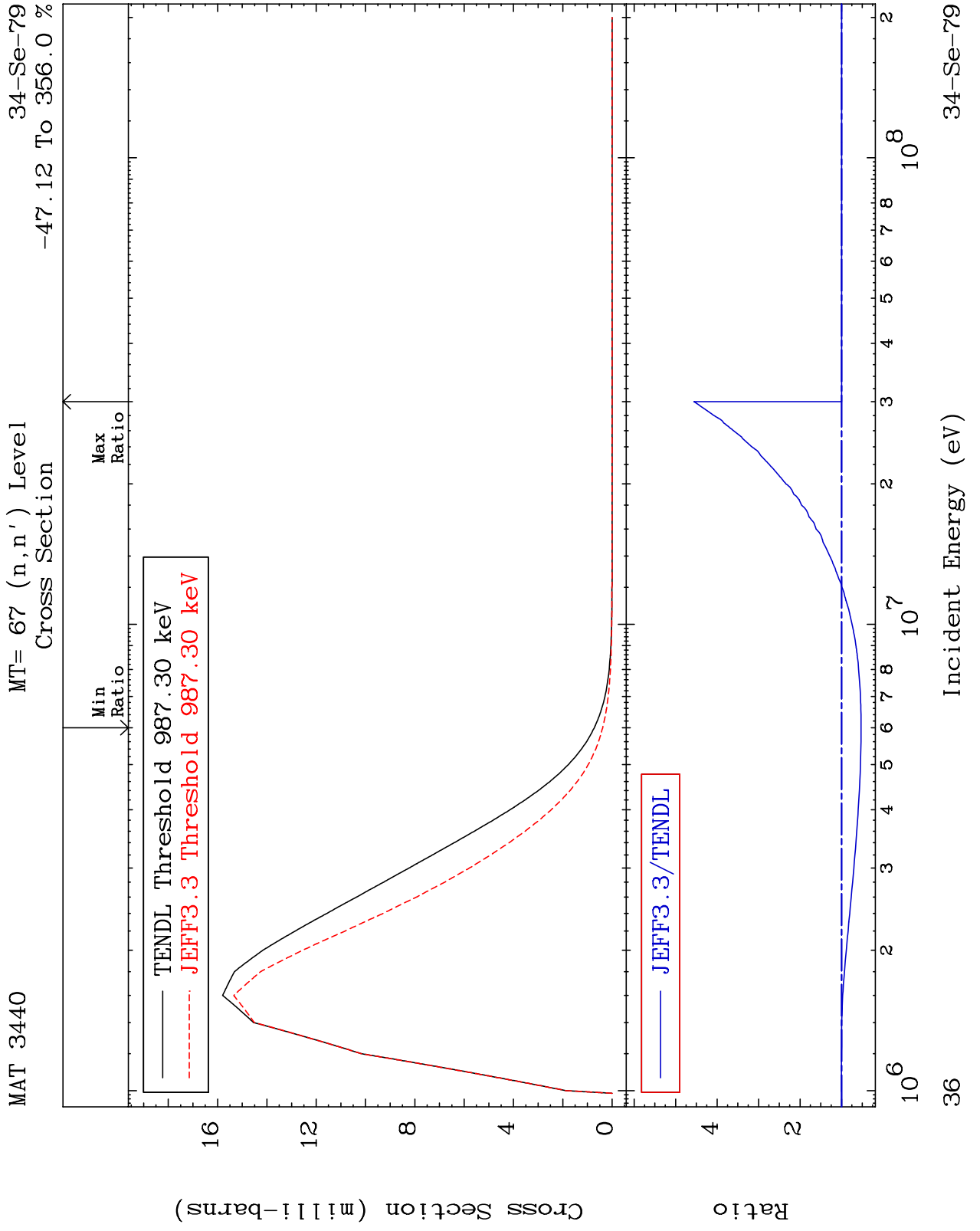
MT= 66 (n,n') Level  
Cross Section

34-Se-79  
-45.43 To 0.436 %



35

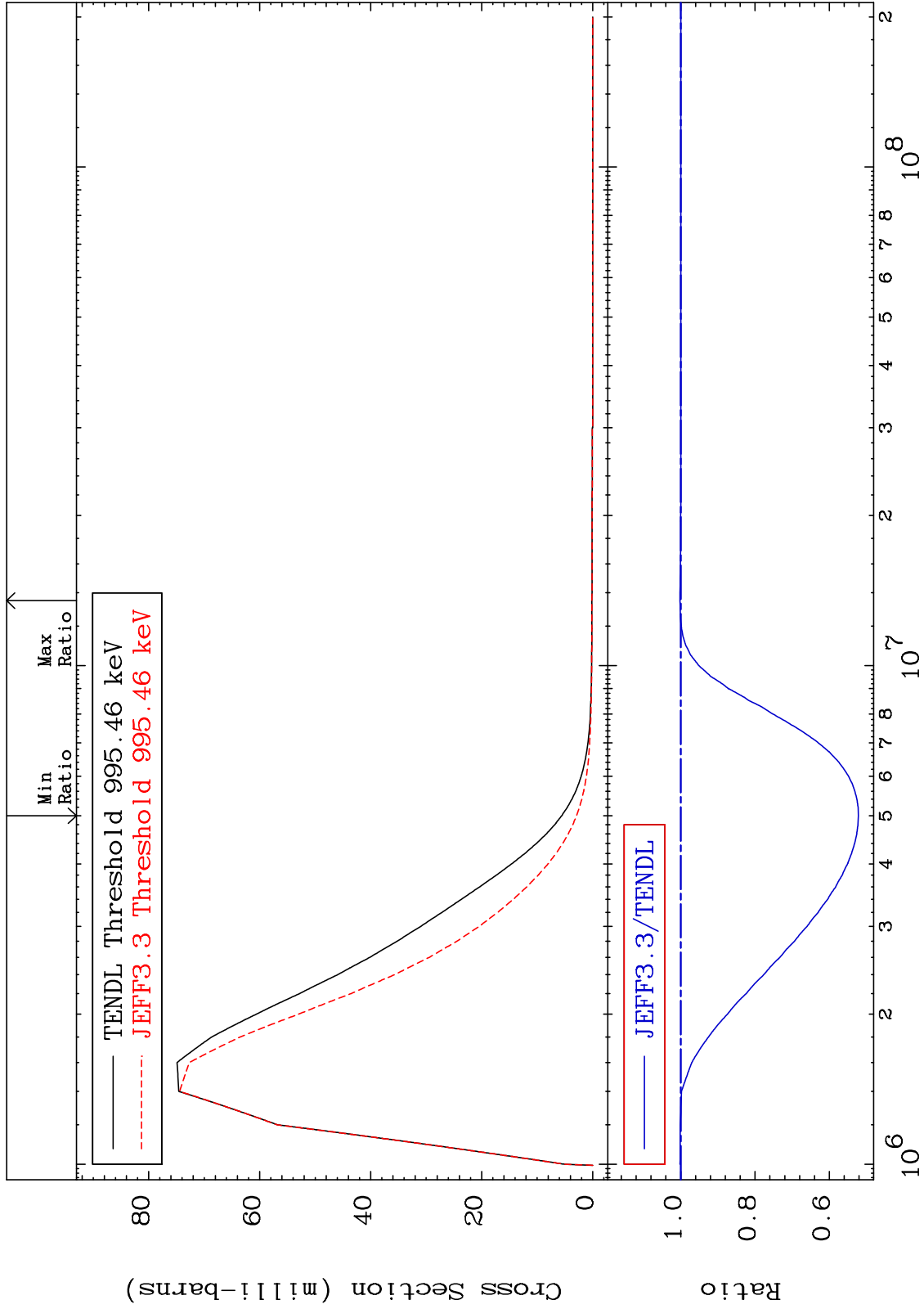
34-Se-79



MAT 3440

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

34-Se-79  
-47.82 To 0.195 %



37

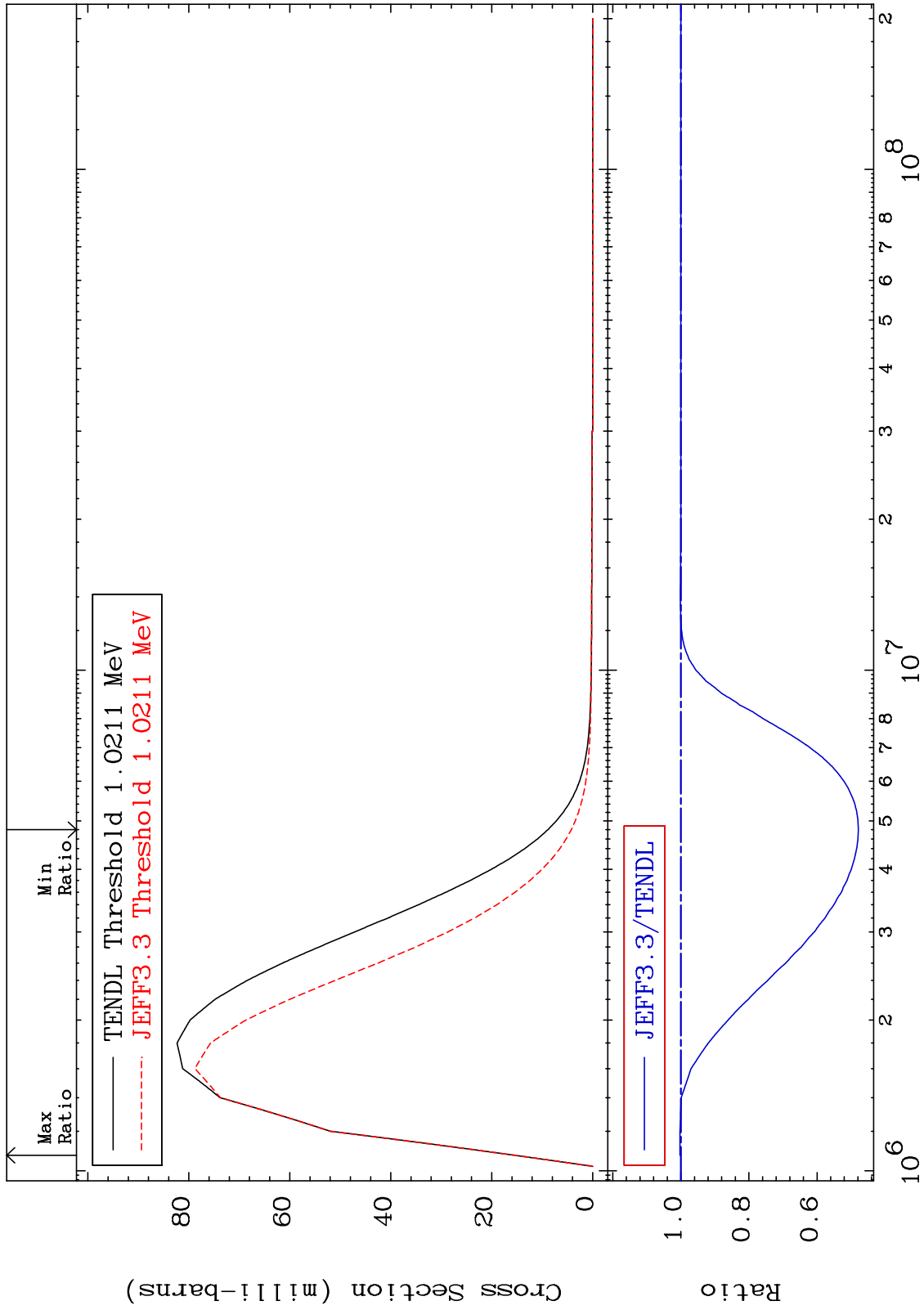
Incident Energy (eV)

34-Se-79

MAT 3440

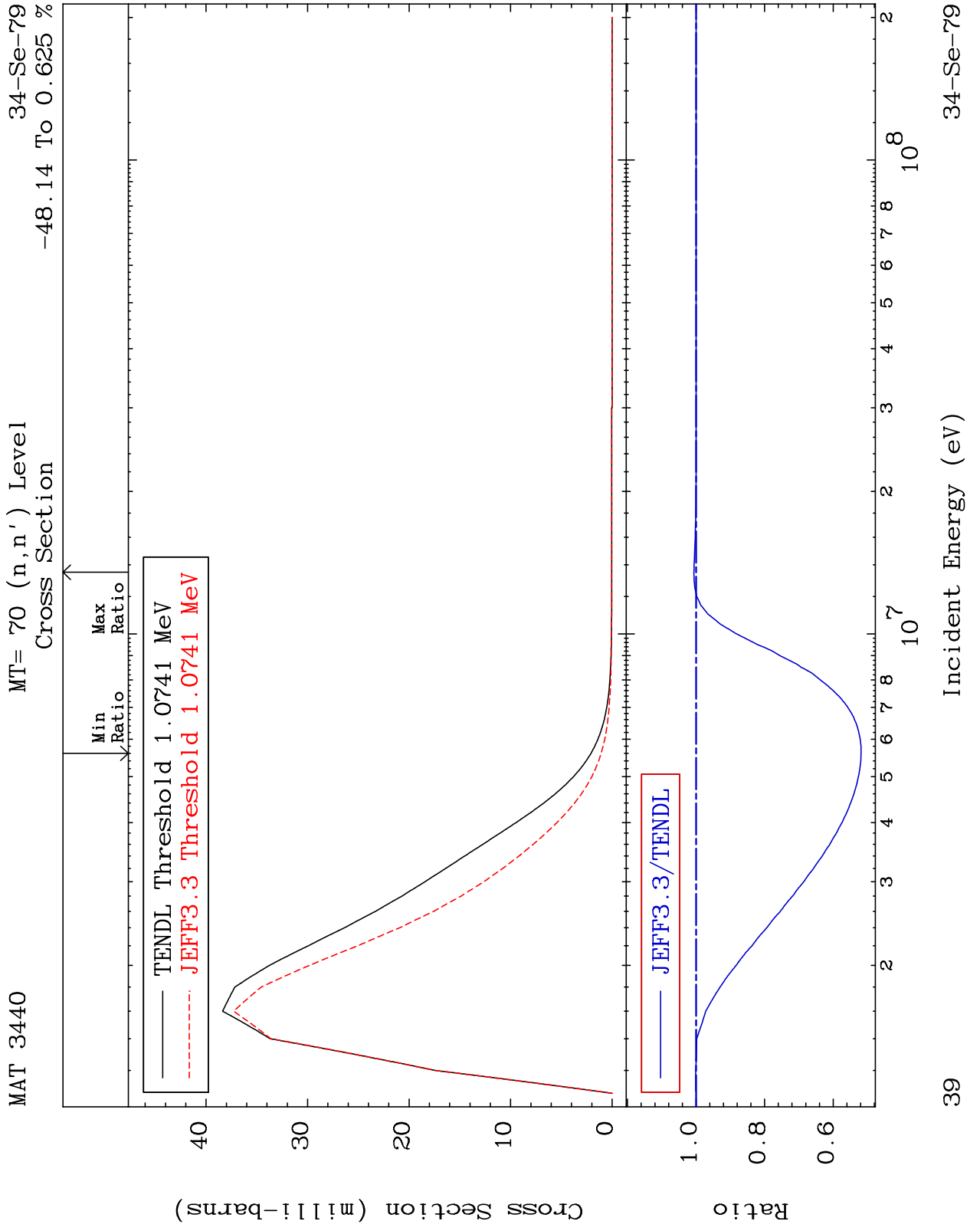
MT= 69 (n,n') Level  
Cross Section

34-Se-79  
-52.15 To 0.244 %



38

34-Se-79

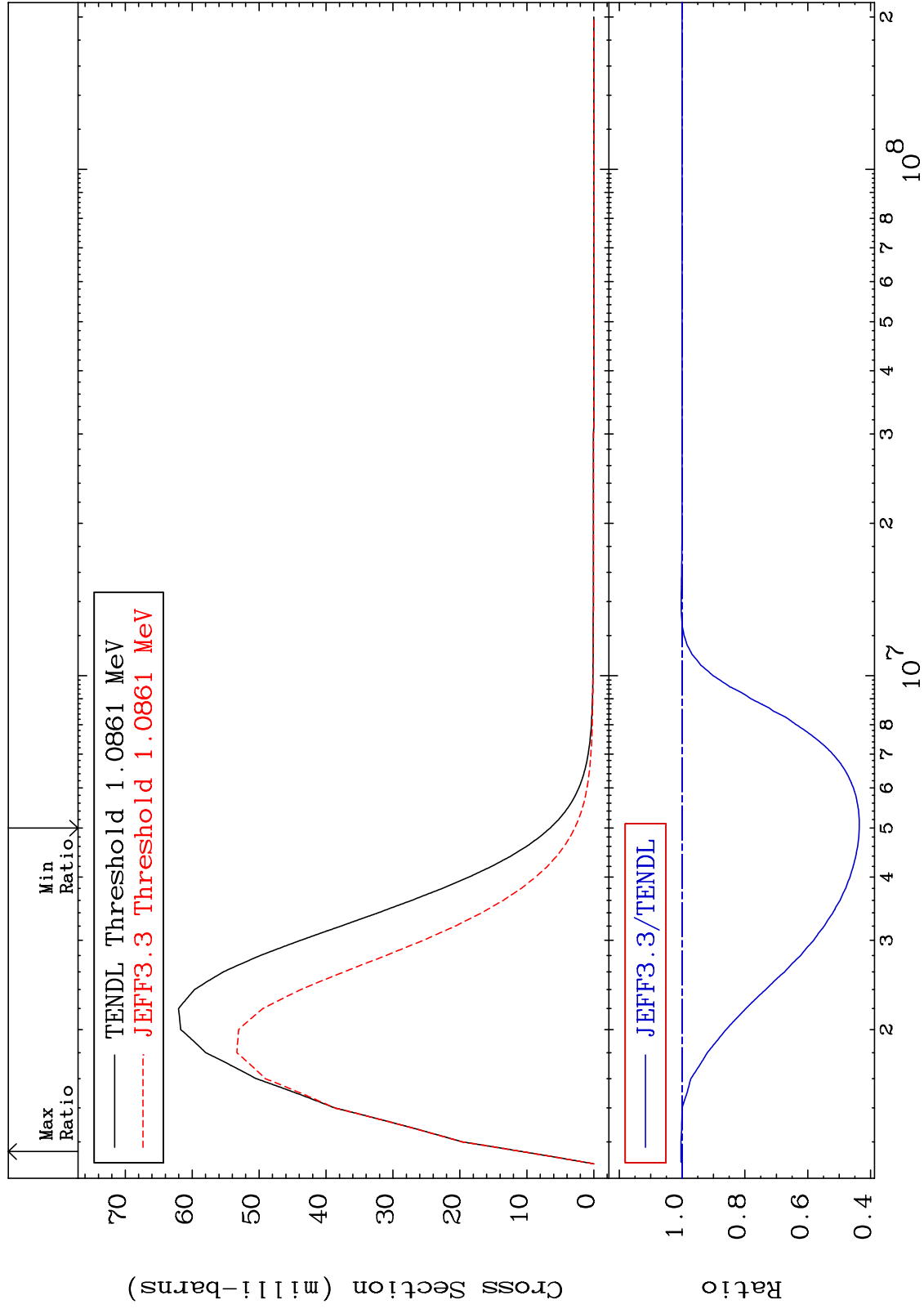




MAT 3440

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

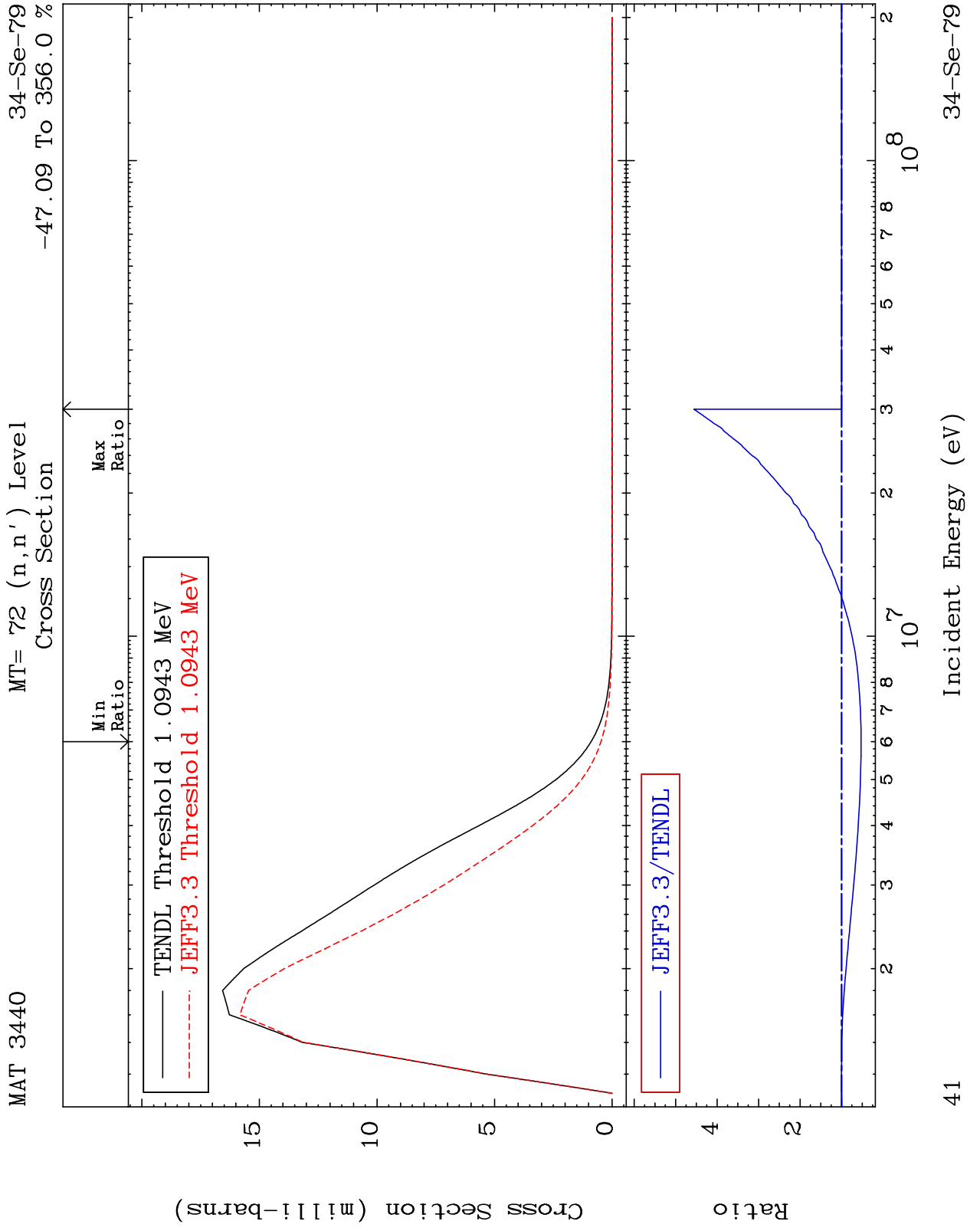
34-Se-79  
-56.42 To 0.347 %

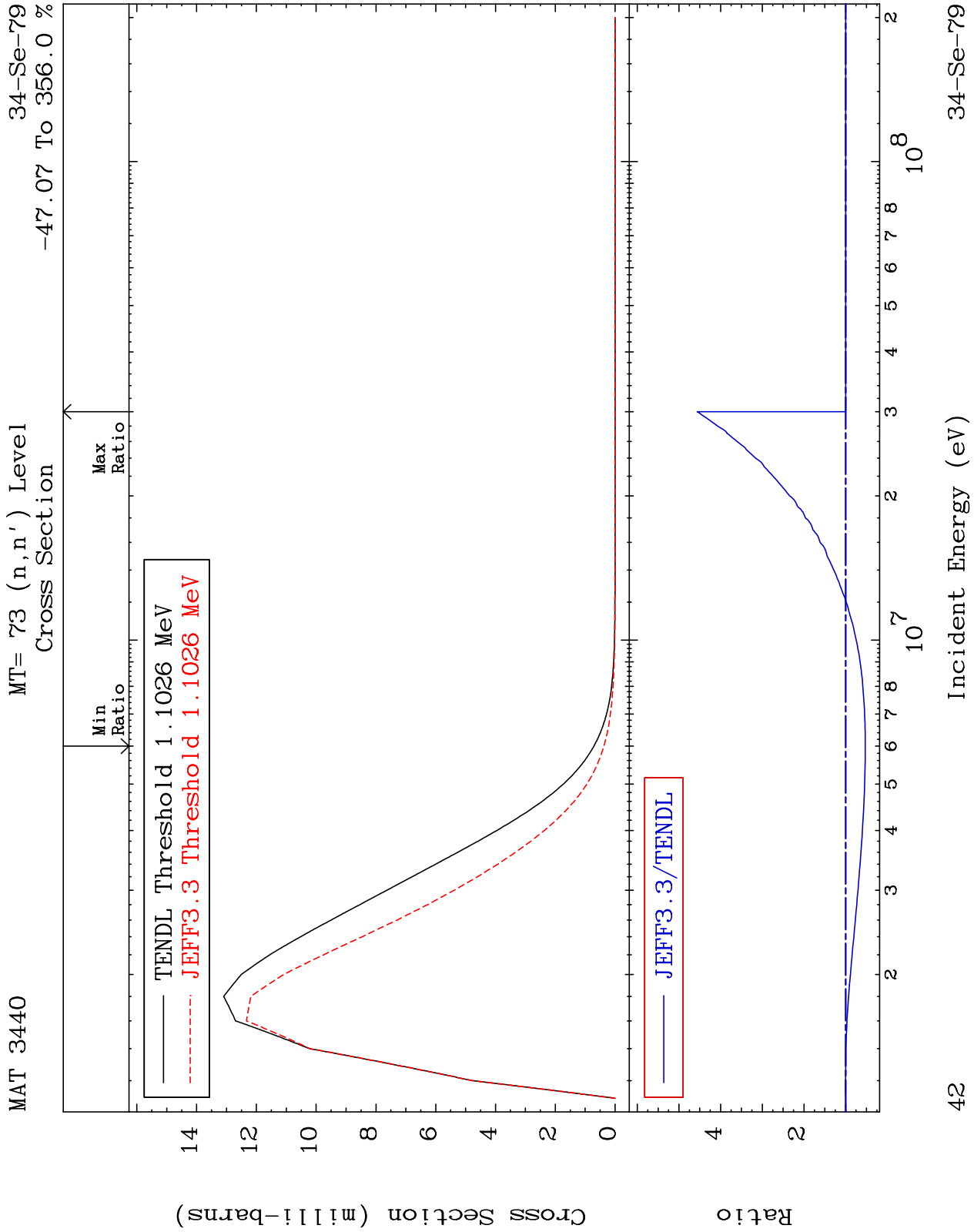


40

Incident Energy (eV)

34-Se-79

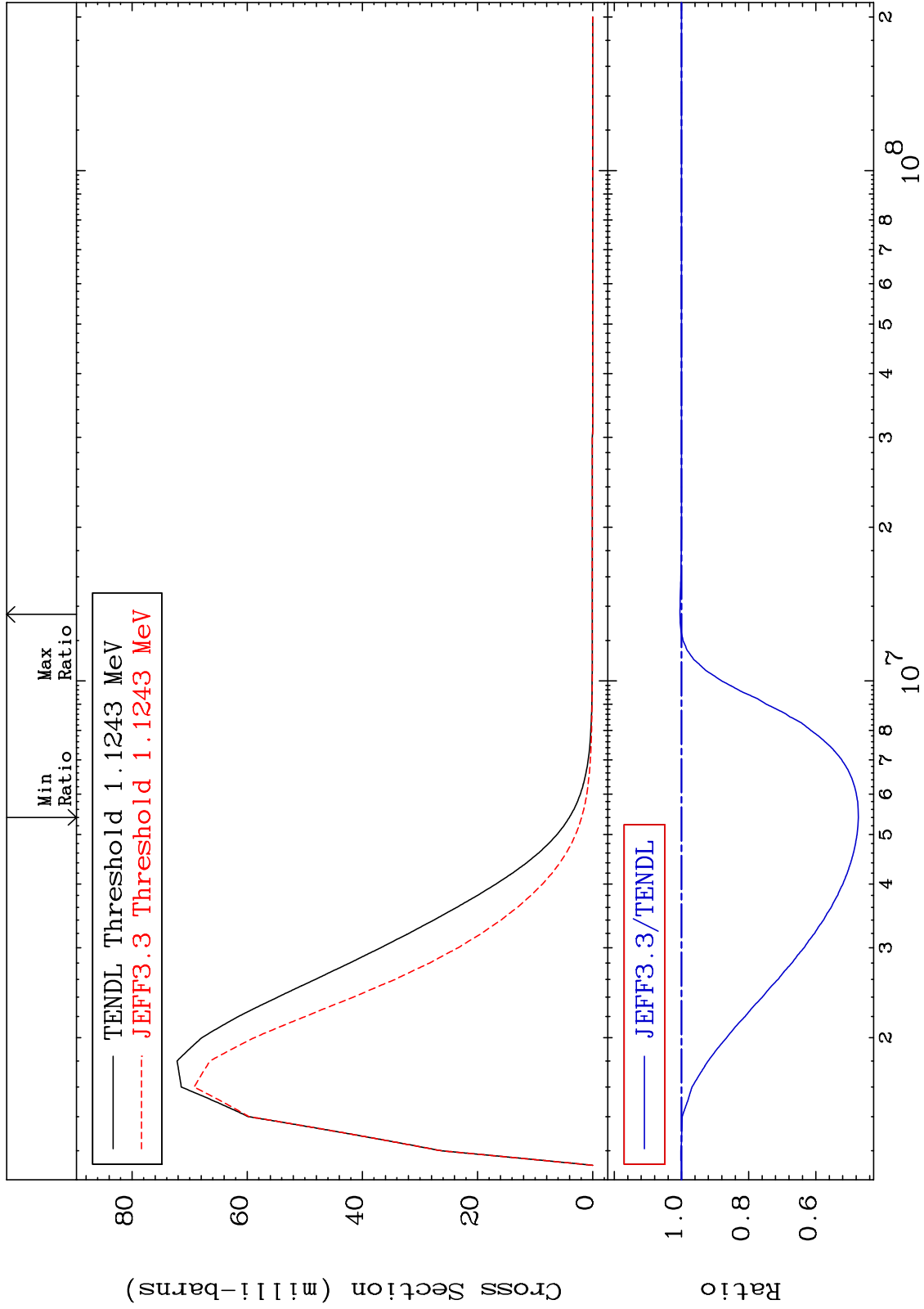


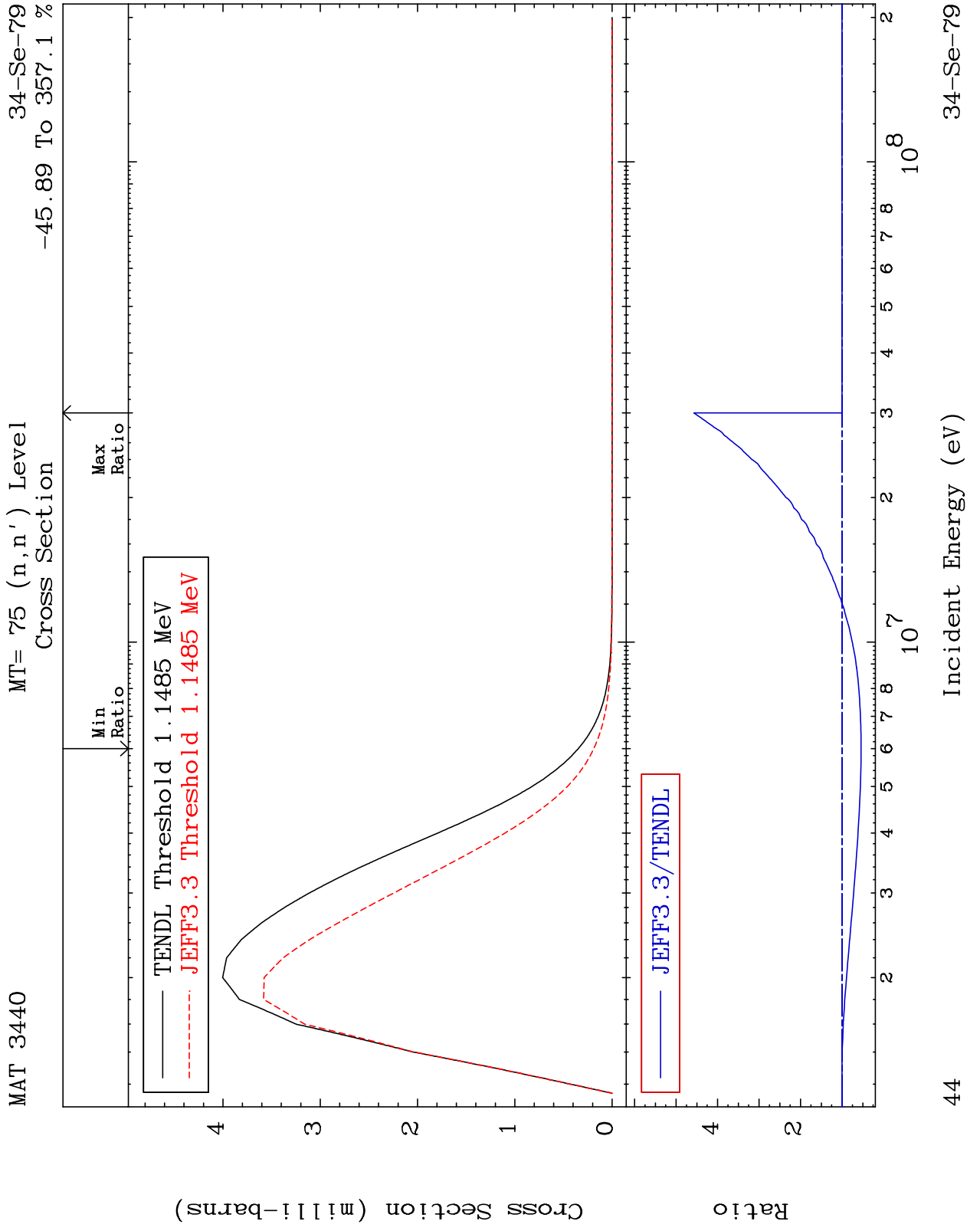


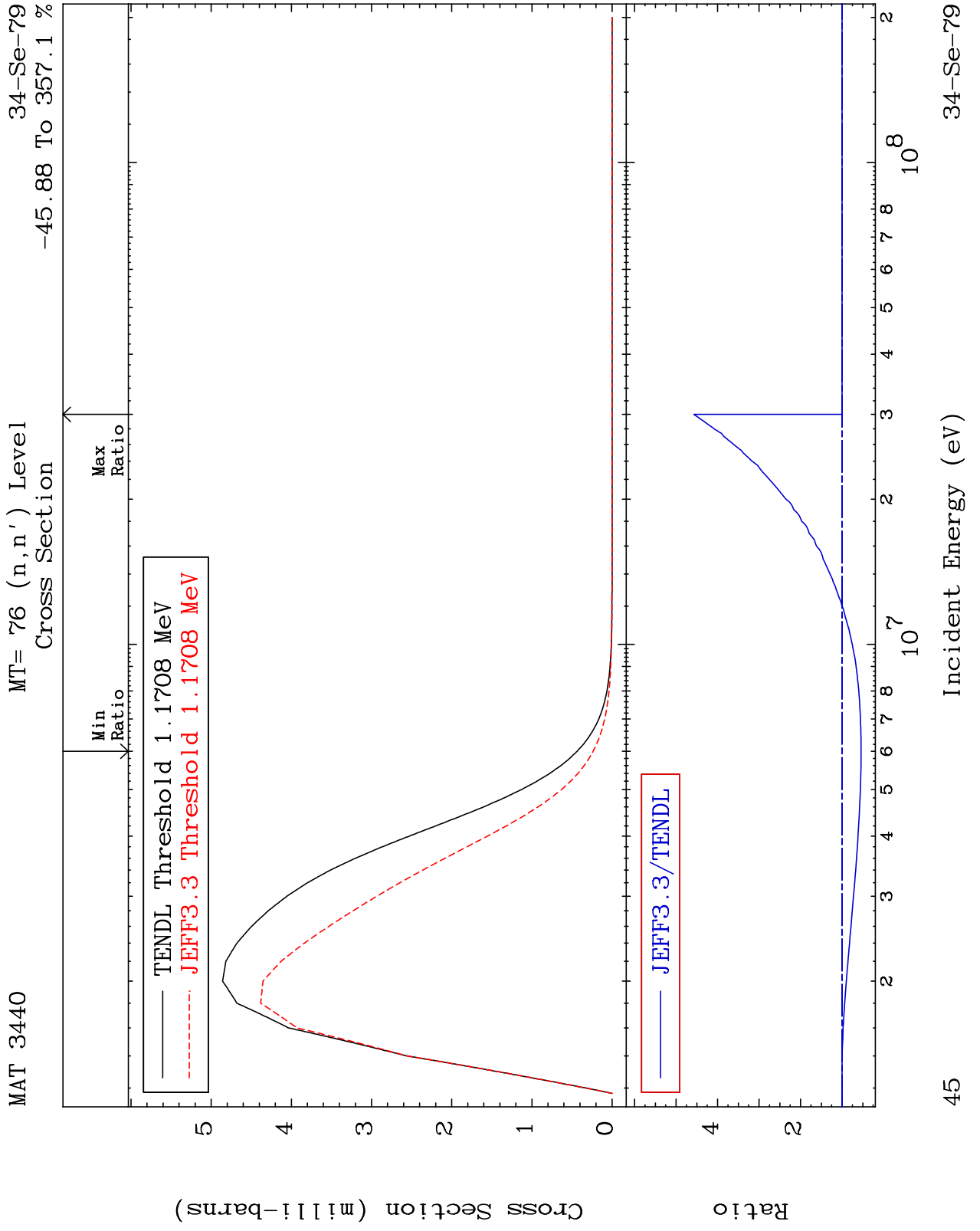
MAT 3440

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

34-Se-79  
-52.67 To 0.443 %



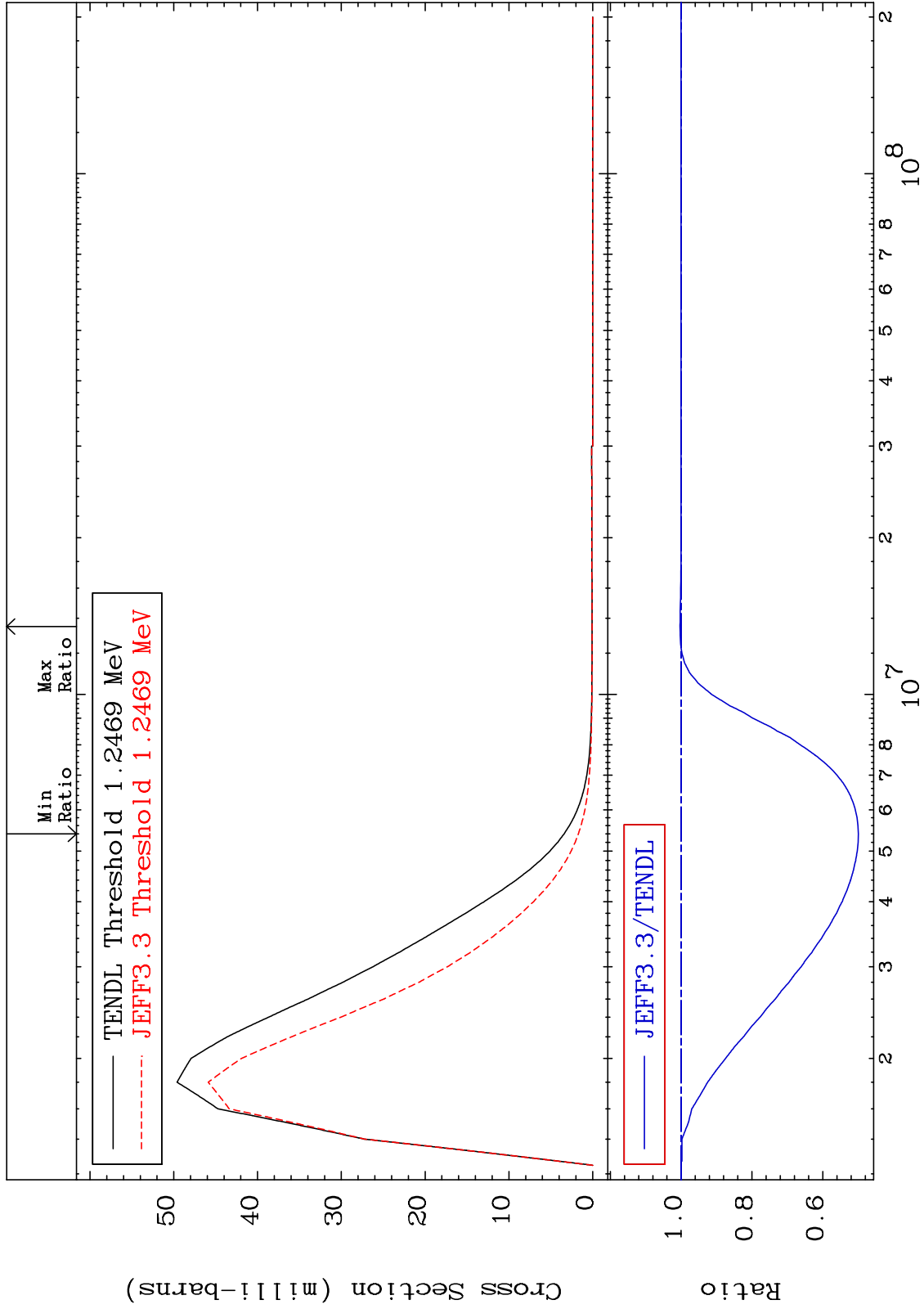




MAT 3440

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

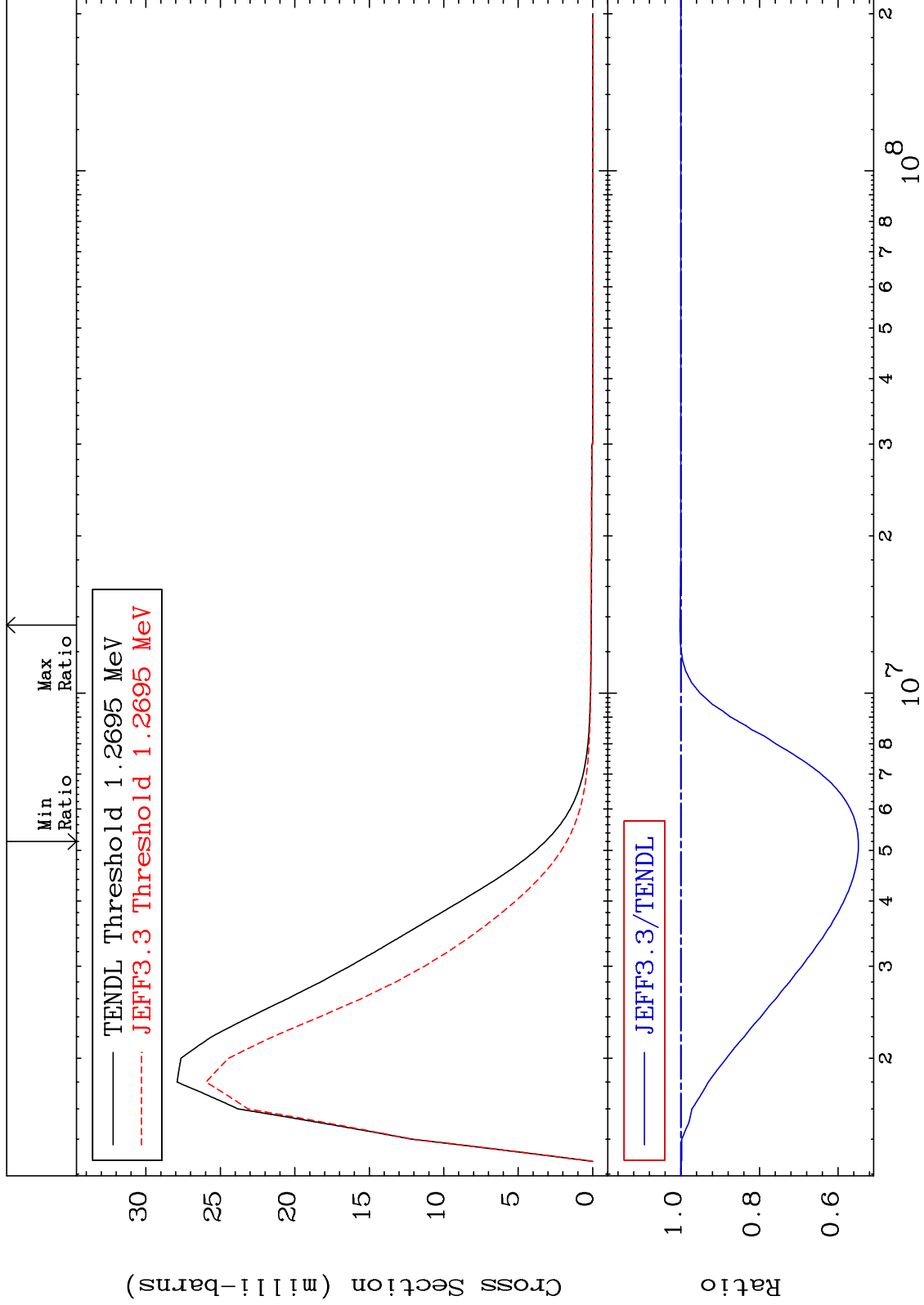
34-Se-79  
-50.04 To 0.317 %



MAT 3440

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

34-Se-79  
-45.16 To 0.226 %

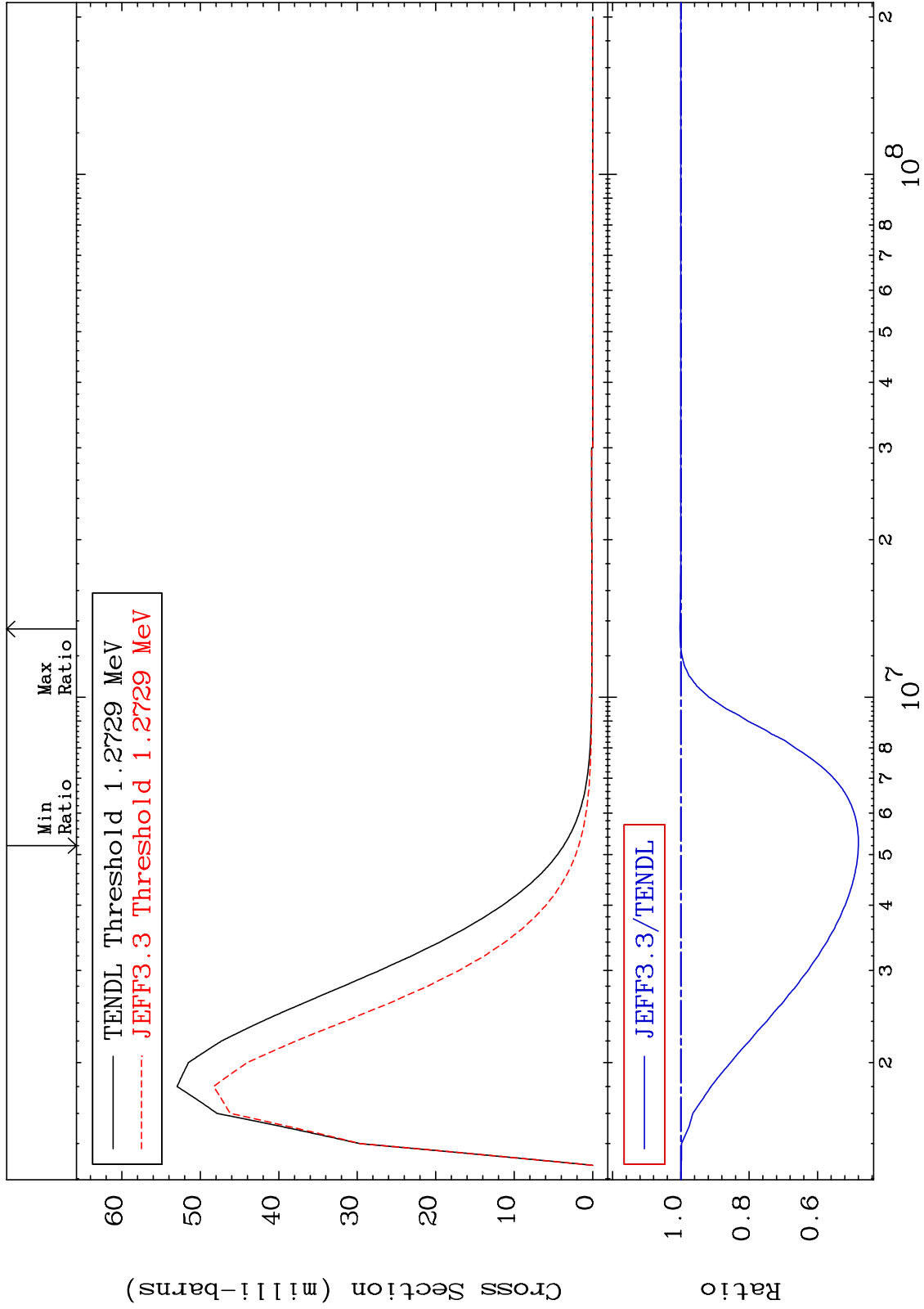




MAT 3440

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

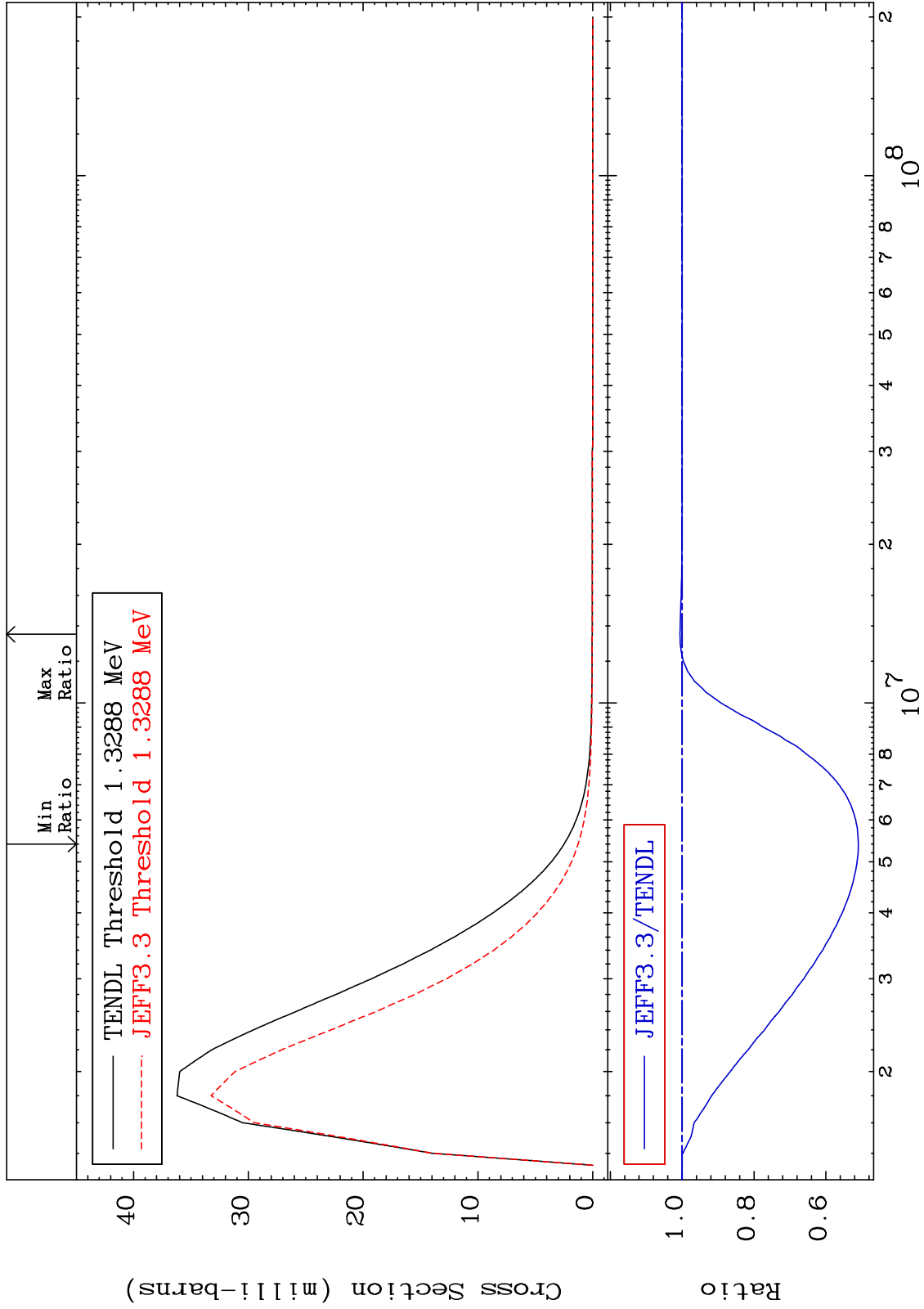
34-Se-79  
-51.99 To 0.260 %

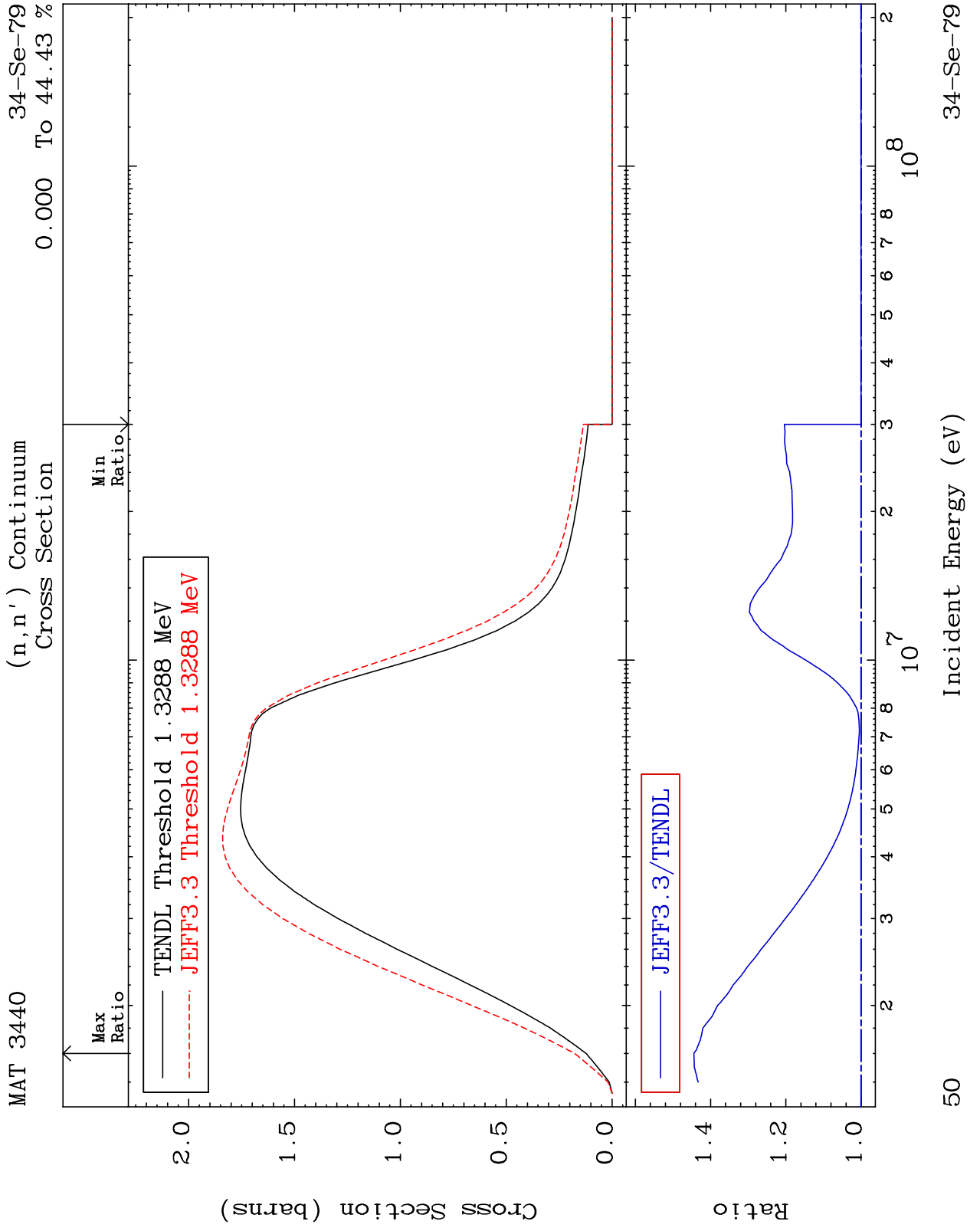


MAT 3440

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

34-Se-79  
-49.06 To 0.593 %

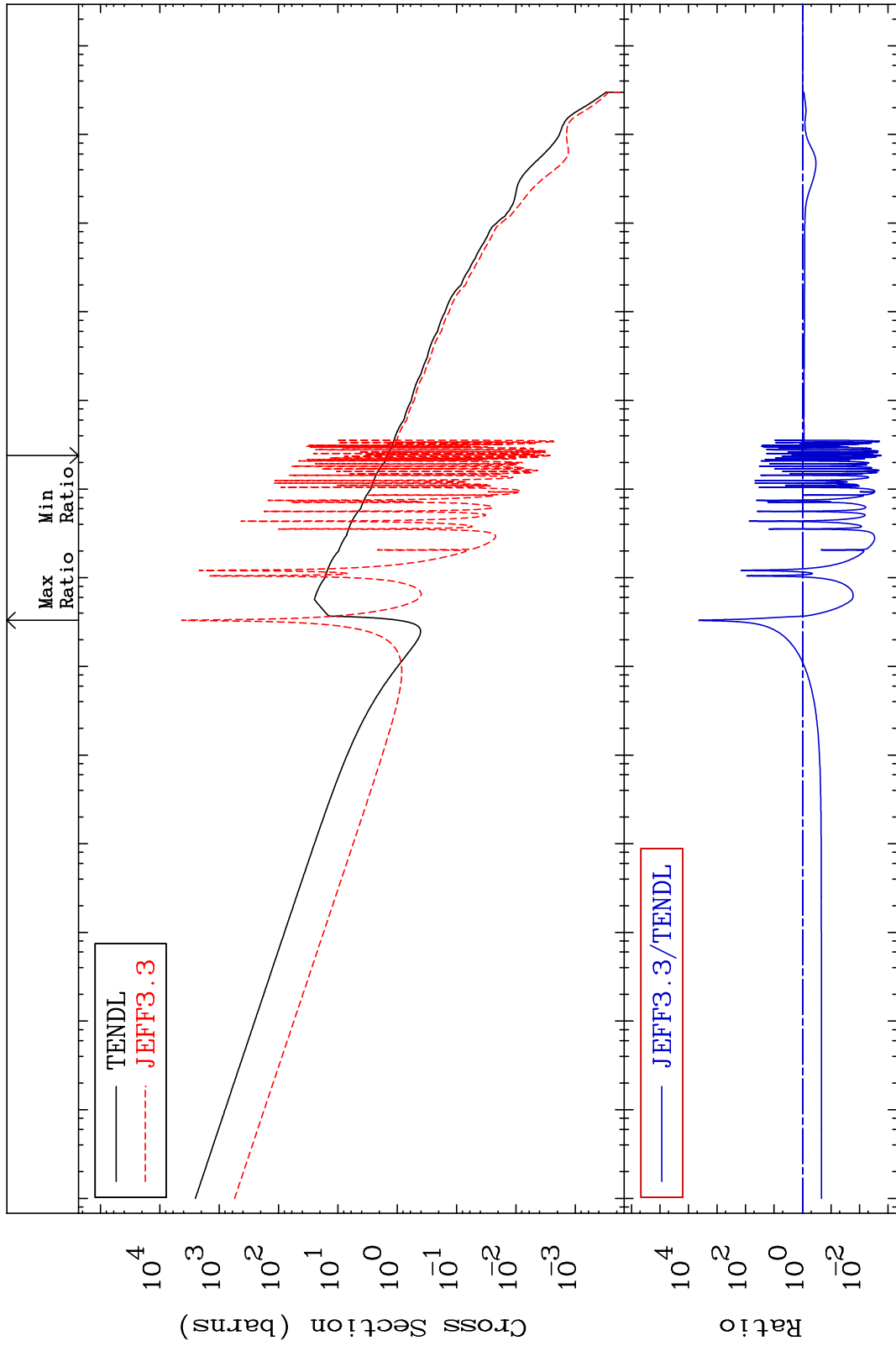




MAT 3440

(n,  $\gamma$ )  
Cross Section

34-Se-79  
-99.83 To 9999. %



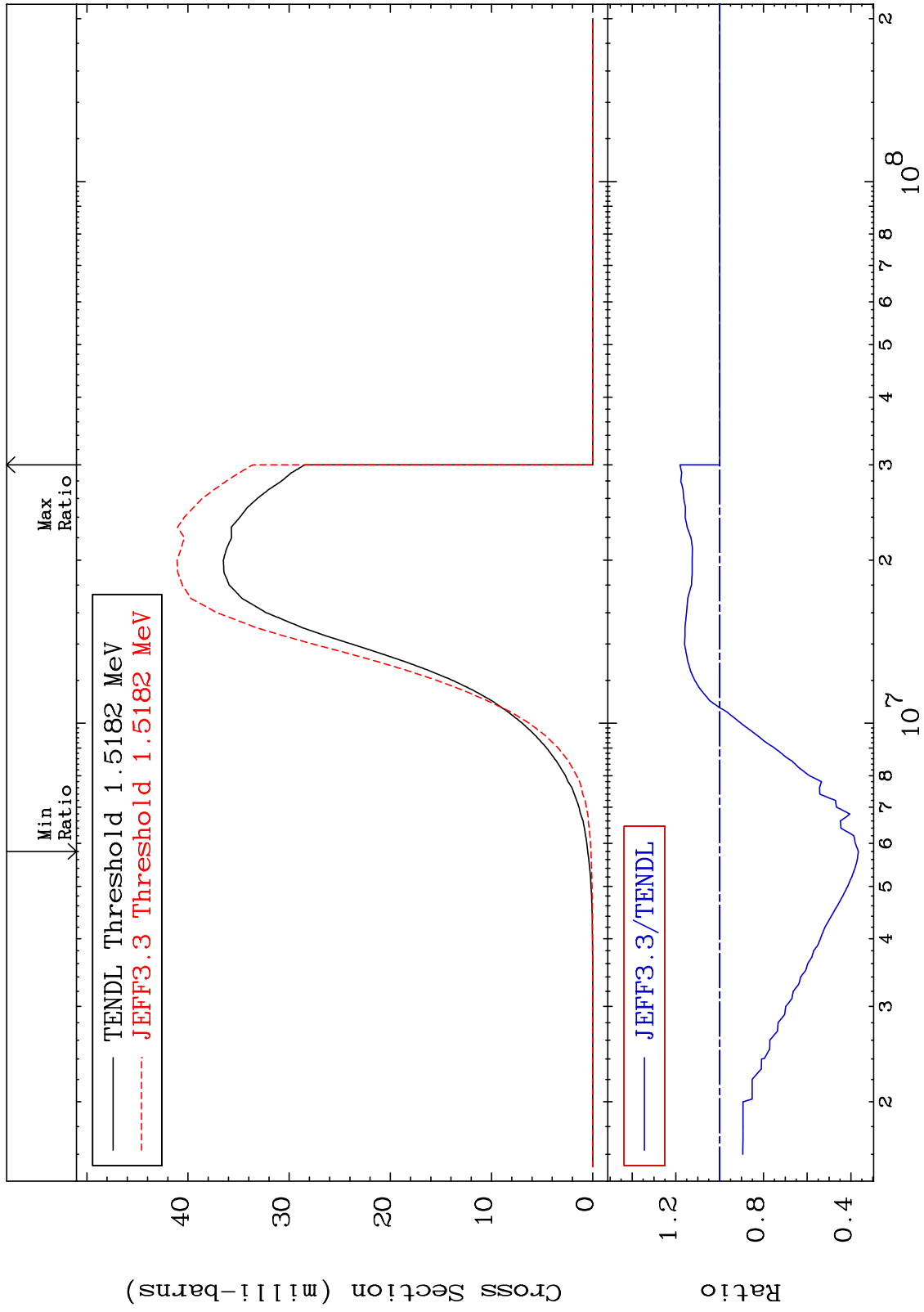
MAT 3440

(n, p)

<sup>34</sup>Se-79

Cross Section

-63.41 To 18.11 %



52

Incident Energy (eV)

<sup>34</sup>Se-79

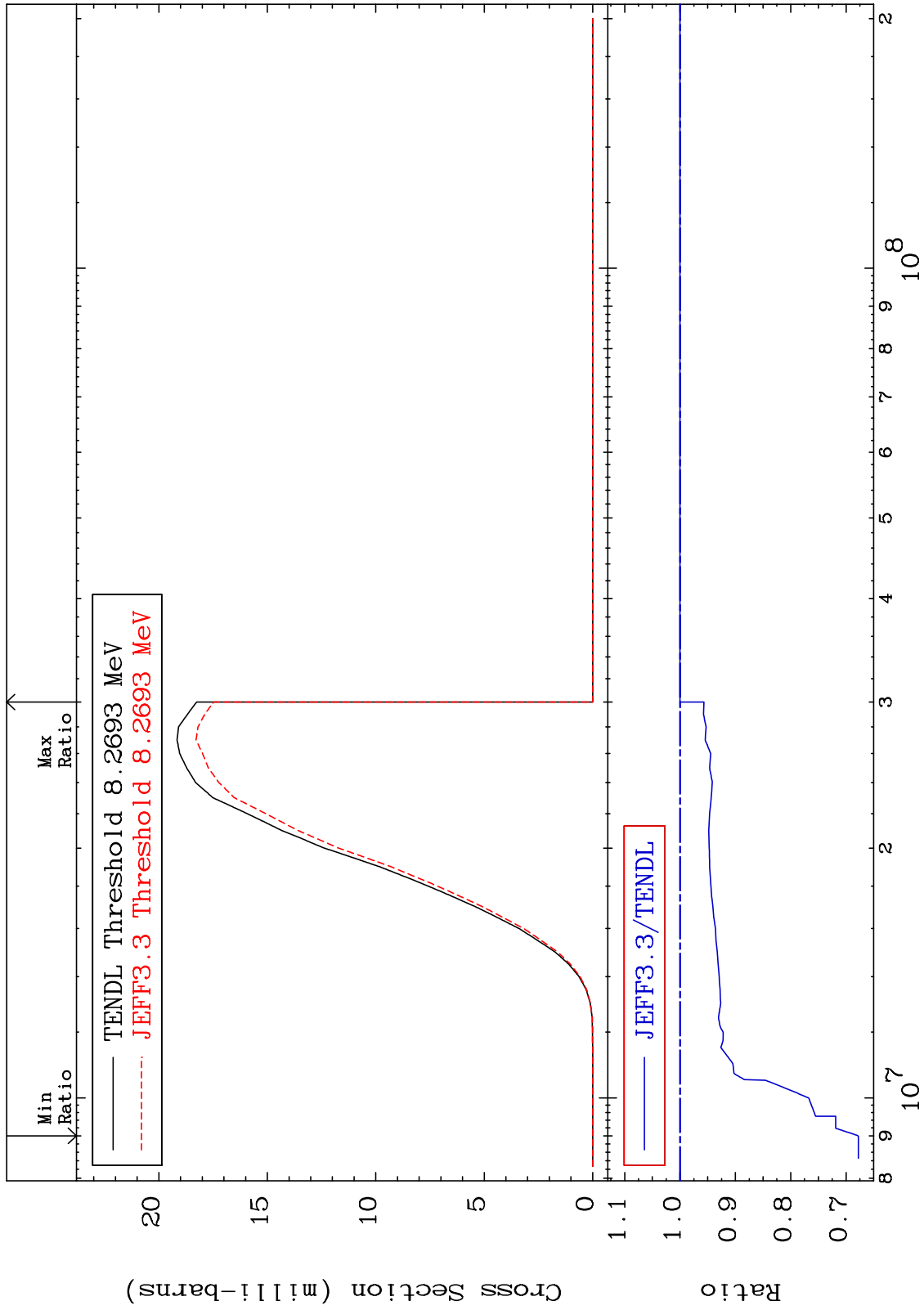
MAT 3440

(n, d)

<sup>34</sup>Se-79

Cross Section

-32.23 To 0.000 %



53

Incident Energy (eV)

<sup>34</sup>Se-79

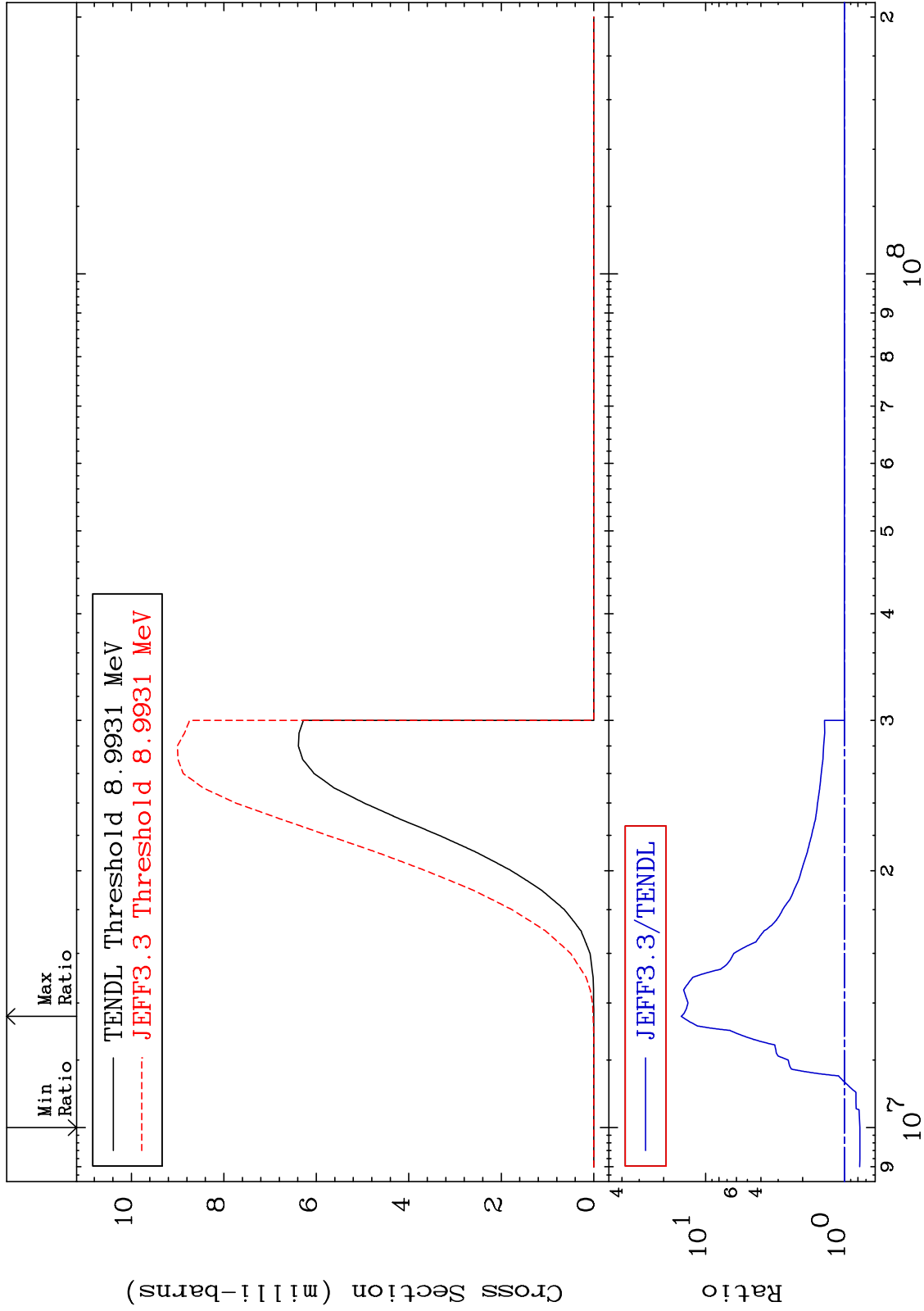
MAT 3440

(n, t)

<sup>34</sup>Se-79

Cross Section

-22.71 To 1397. %



54

Incident Energy (eV)

<sup>34</sup>Se-79

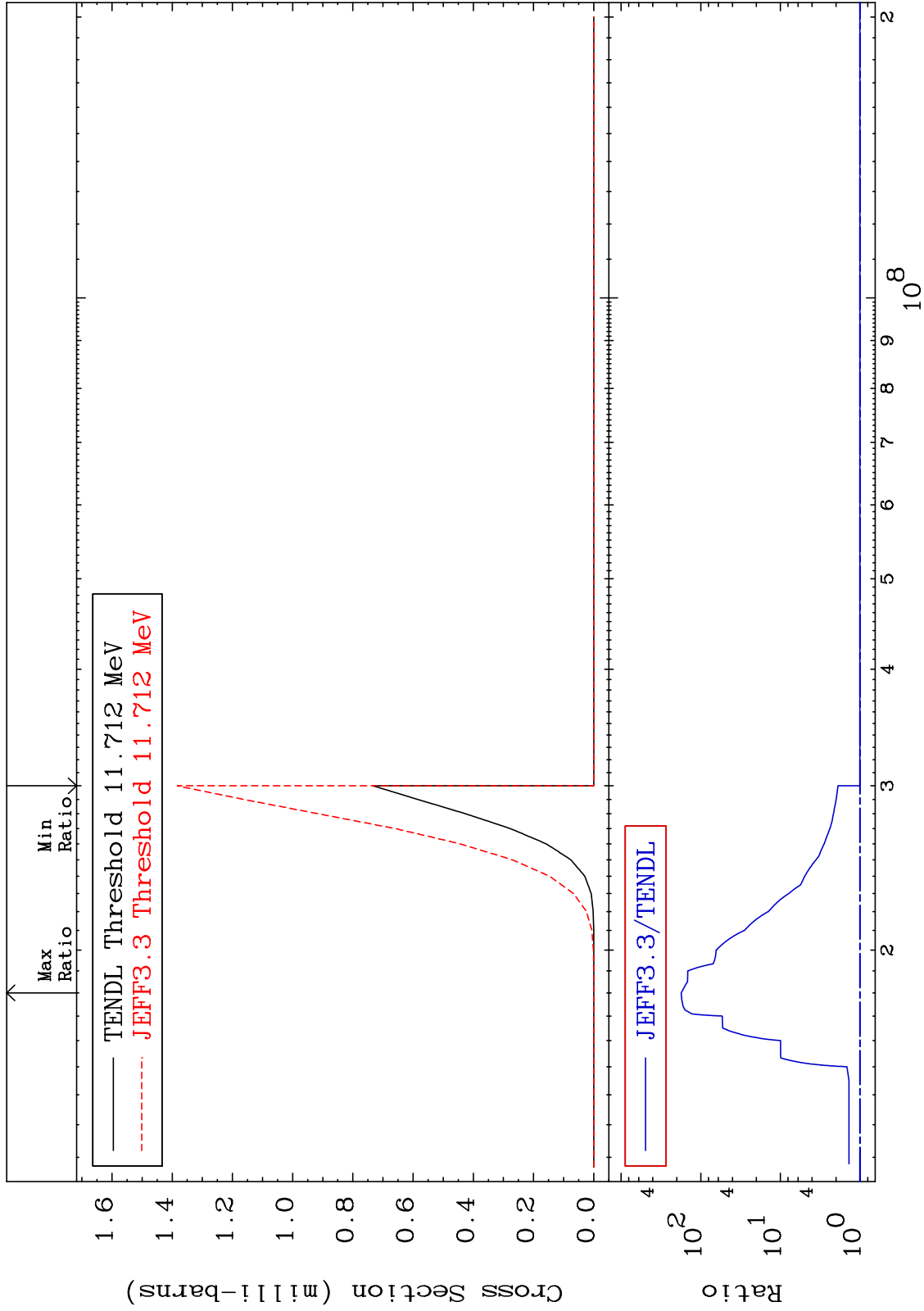
MAT 3440

(n, He-3)

<sup>34</sup>Se-79

Cross Section

0.000 To 9999. %



Incident Energy (eV)

<sup>34</sup>Se-79

55



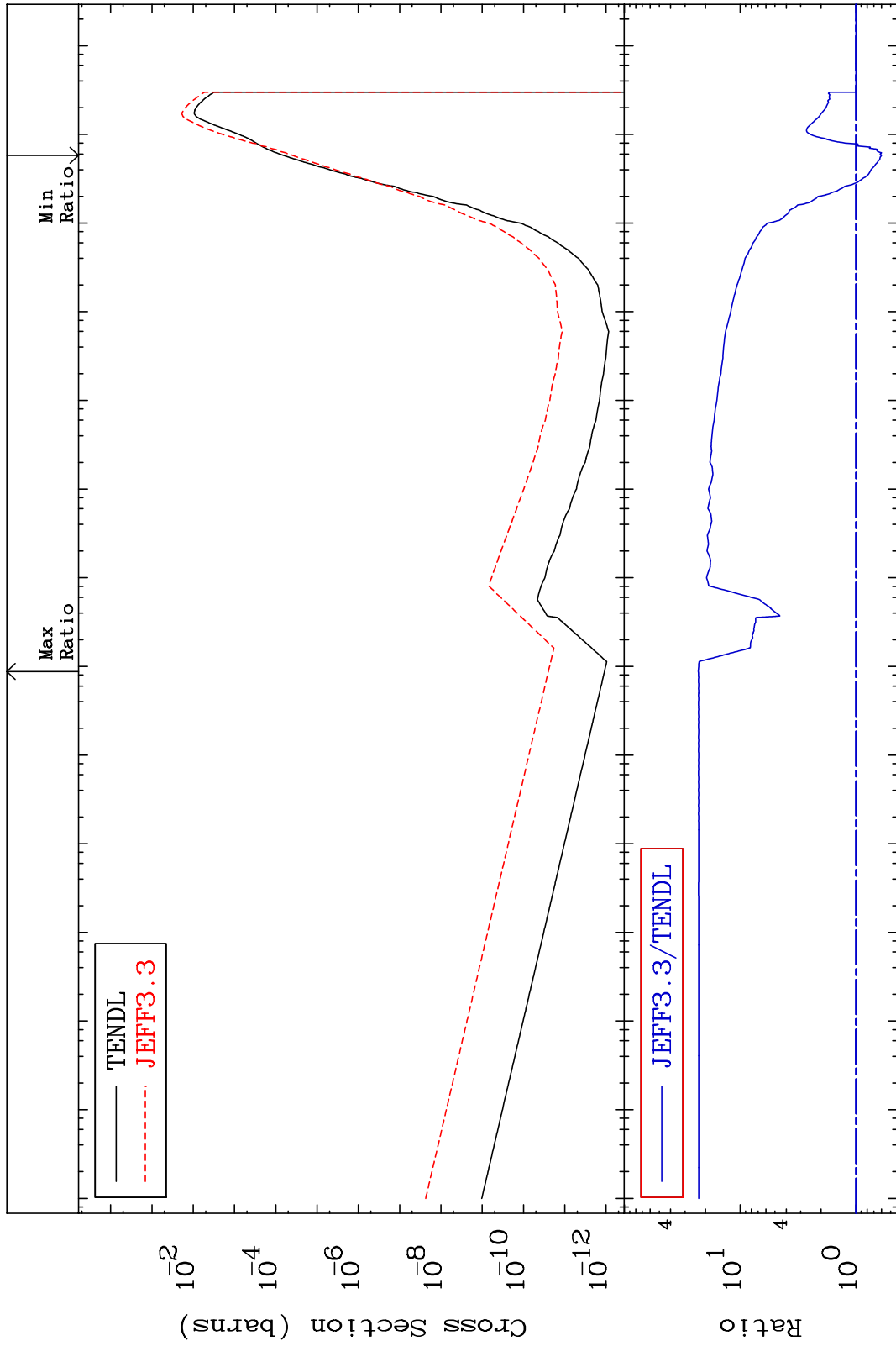
MAT 3440

(n,  $\alpha$ )

34-Se-79

Cross Section

-40.03 To 2198. %



Incident Energy (eV)

34-Se-79

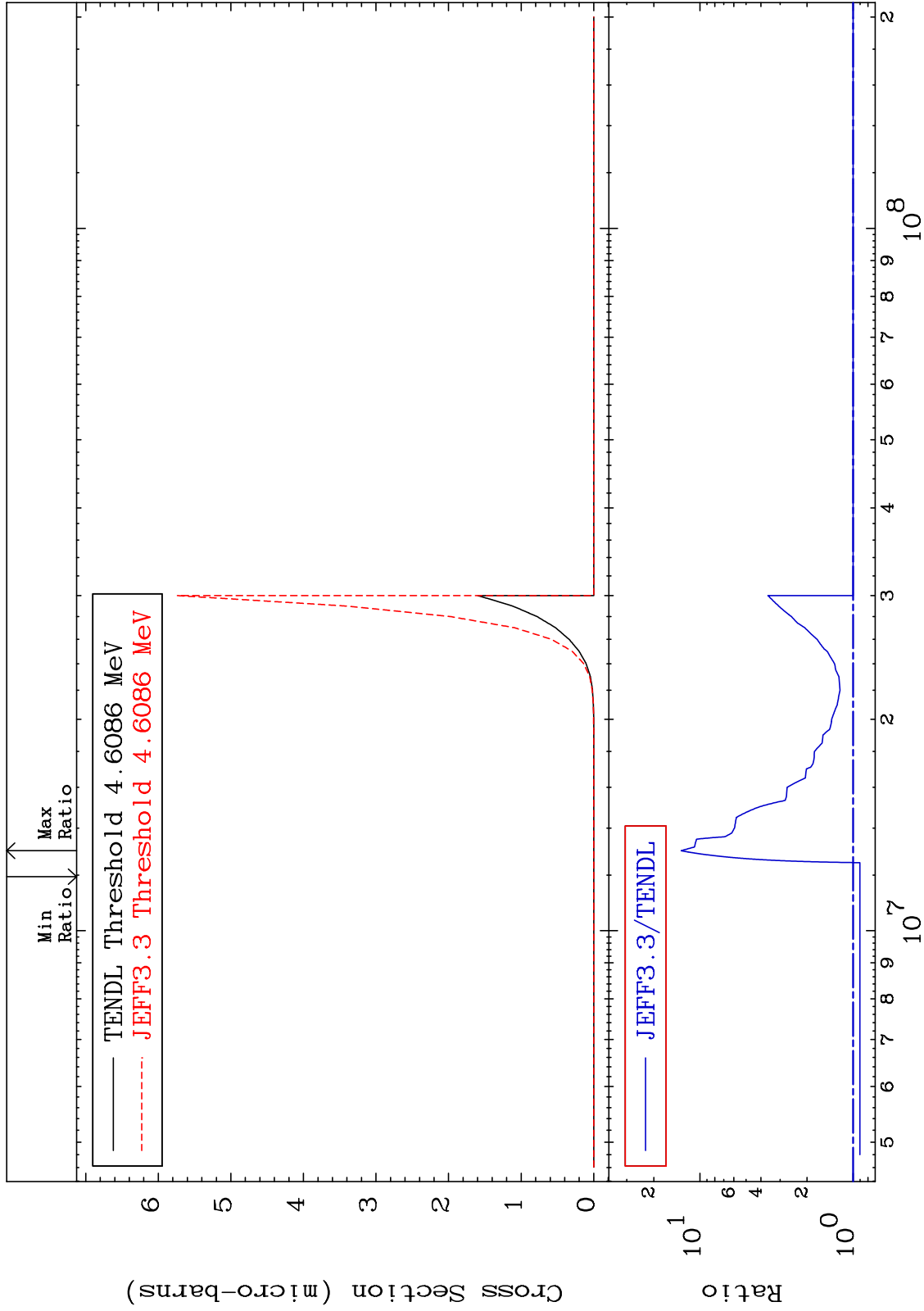
MAT 3440

(n, 2α)

<sup>34</sup>Se-79

-9.703 To 1225. %

Cross Section



57

Incident Energy (eV)

<sup>34</sup>Se-79

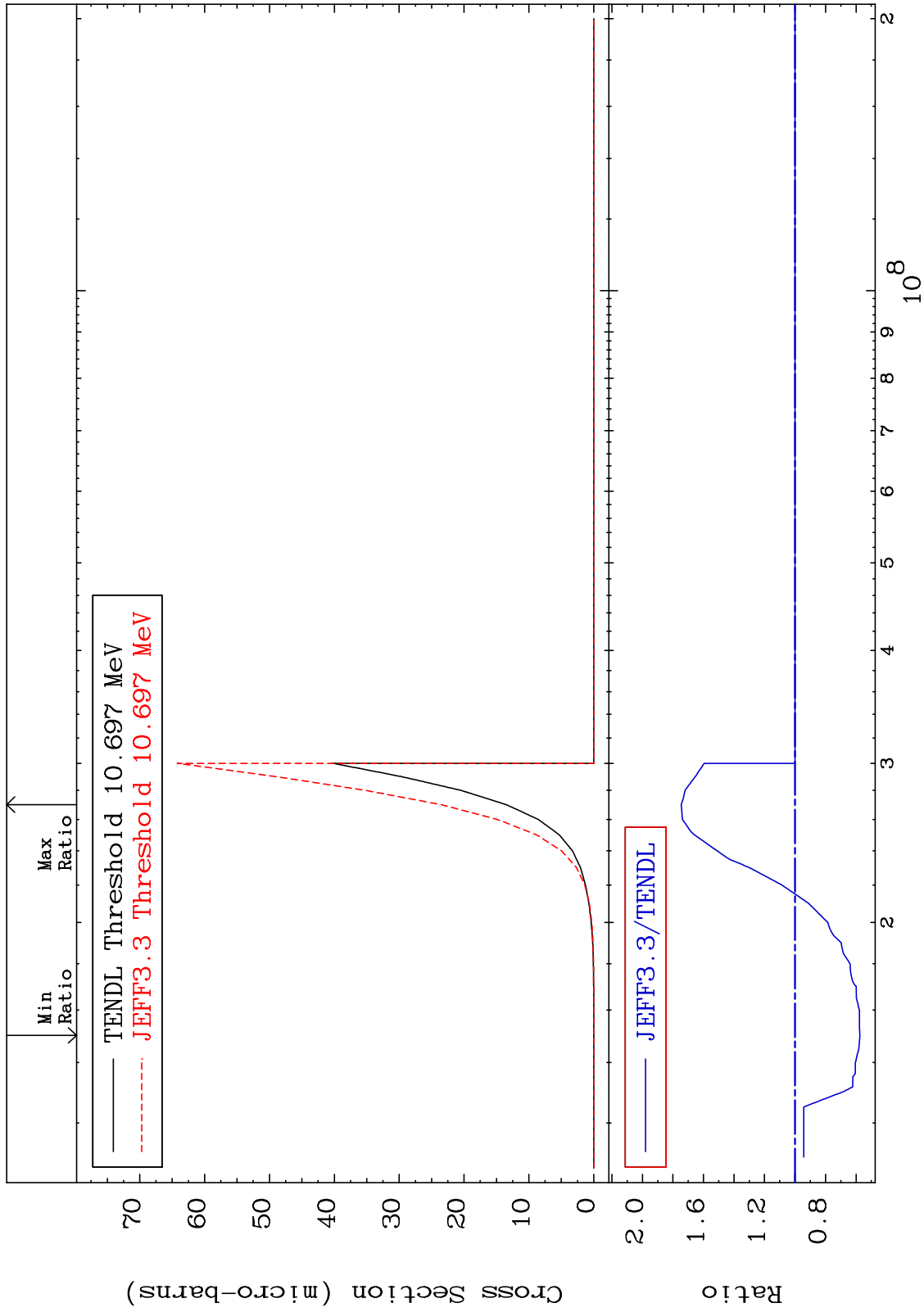
MAT 3440

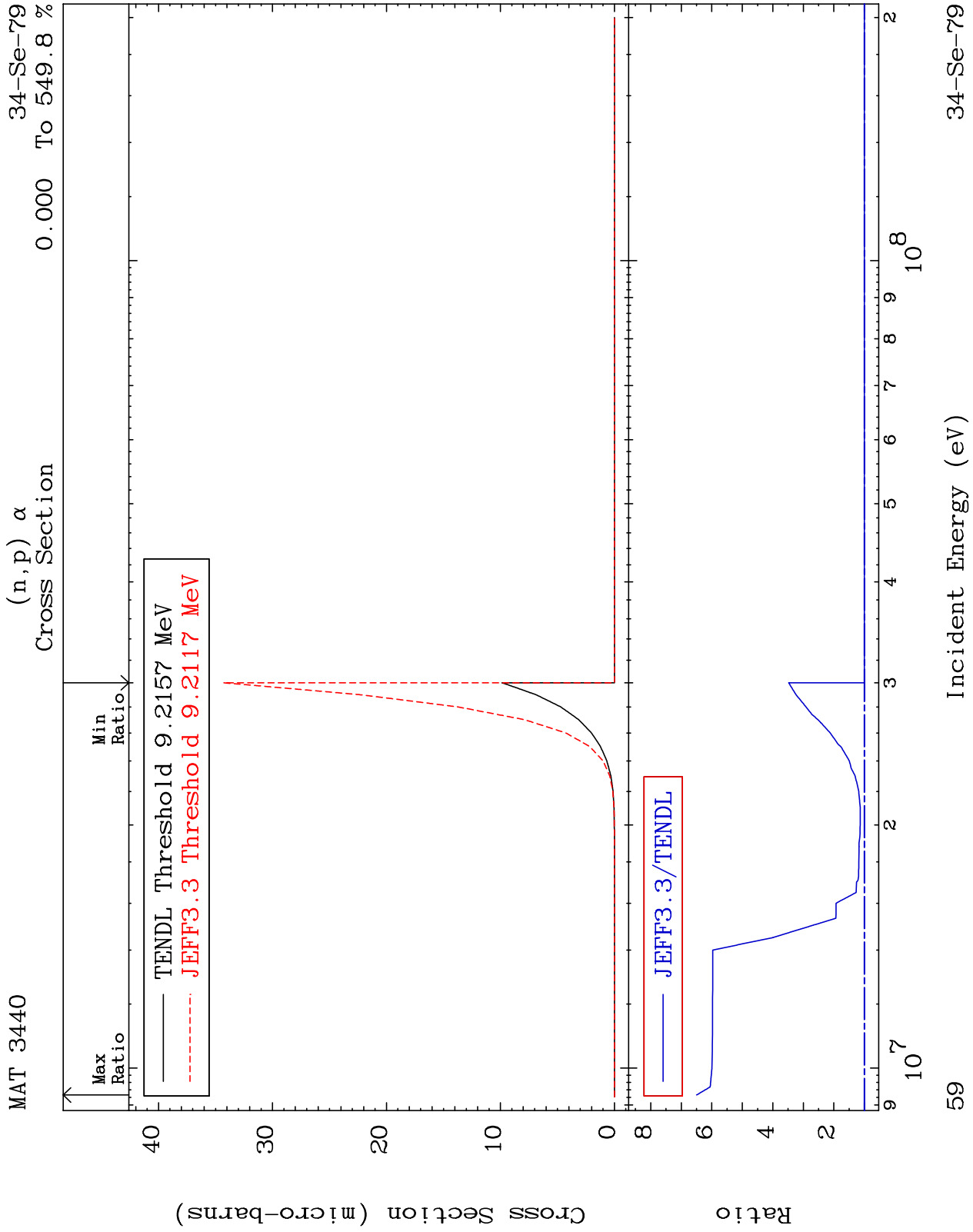
(n,2p)

<sup>34</sup>Se-79

Cross Section

-42.54 To 74.57 %





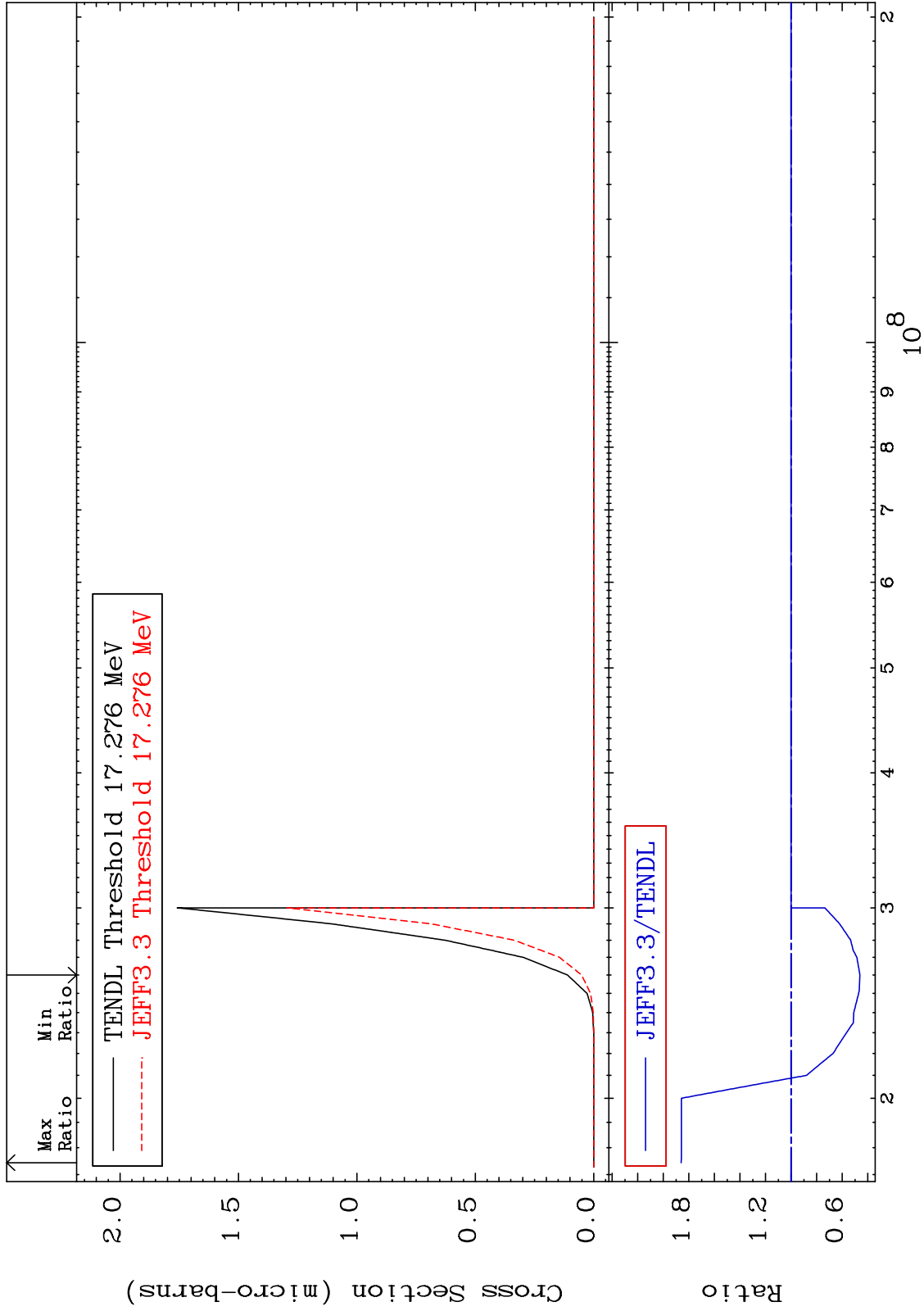
MAT 3440

(n,p) d

<sup>34</sup>Se-79

Cross Section

-53.83 To 85.96 %



60

Incident Energy (eV)

<sup>34</sup>Se-79

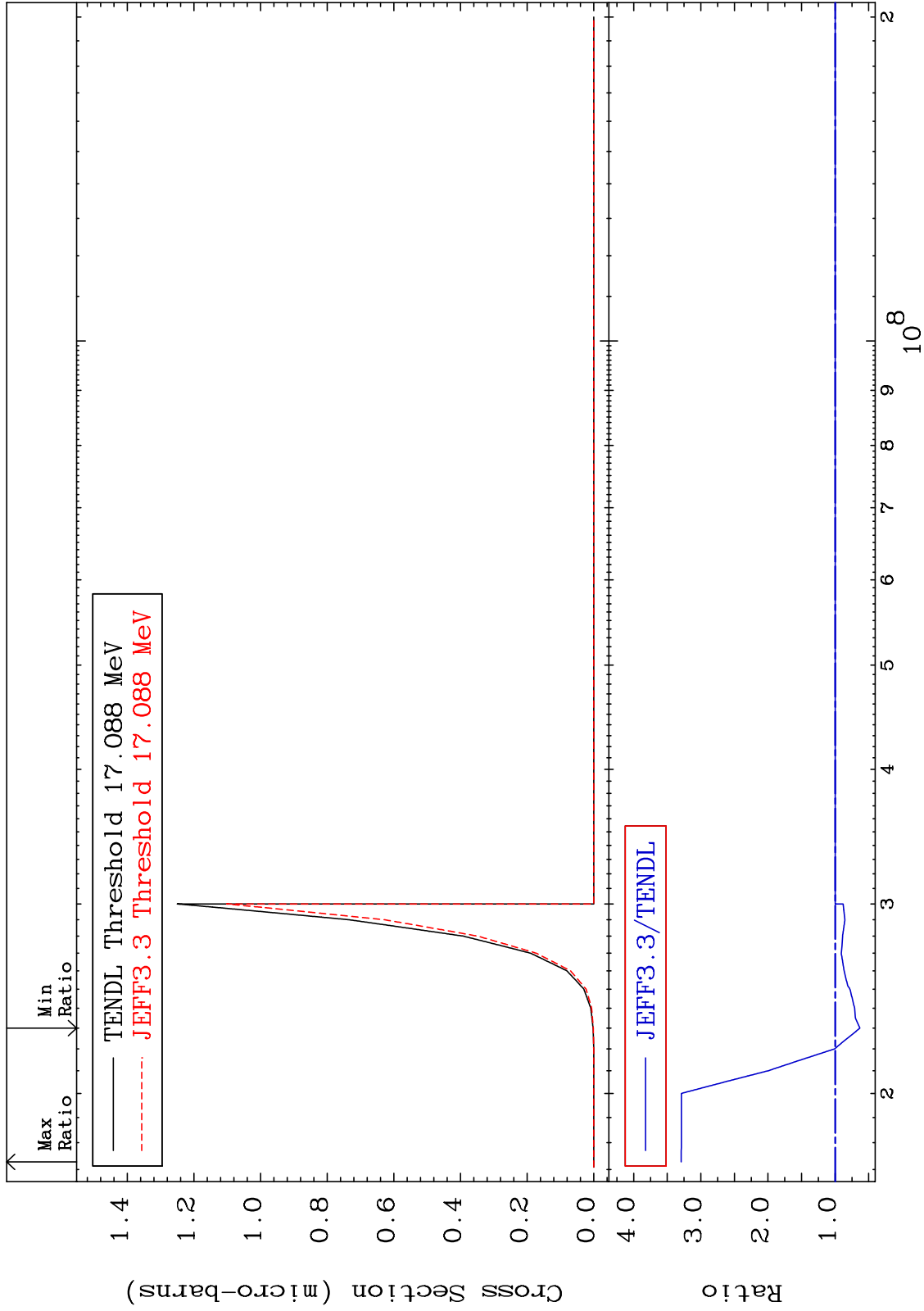
MAT 3440

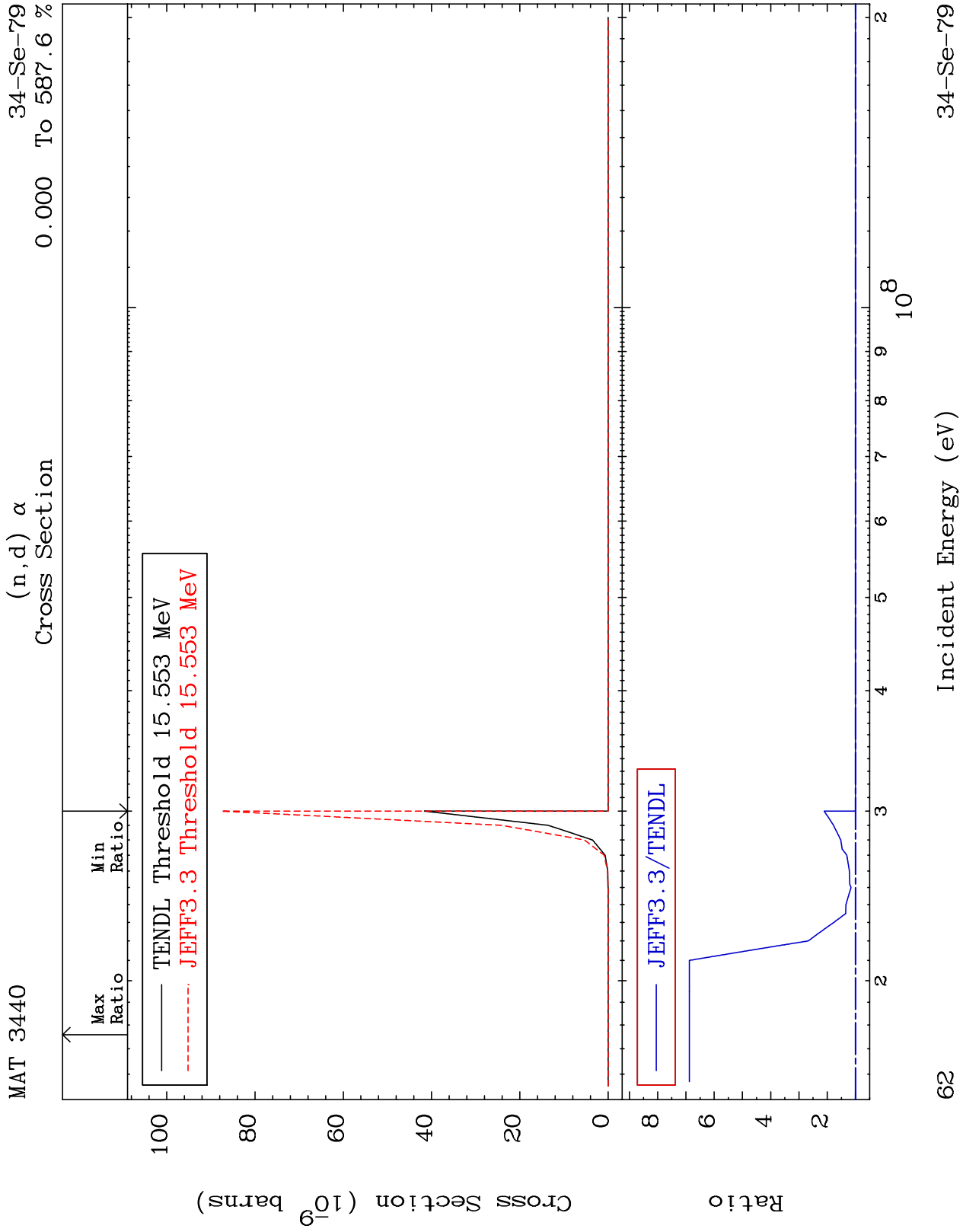
(n,p) t

34-Se-79

Cross Section

-36.94 To 229.2 %

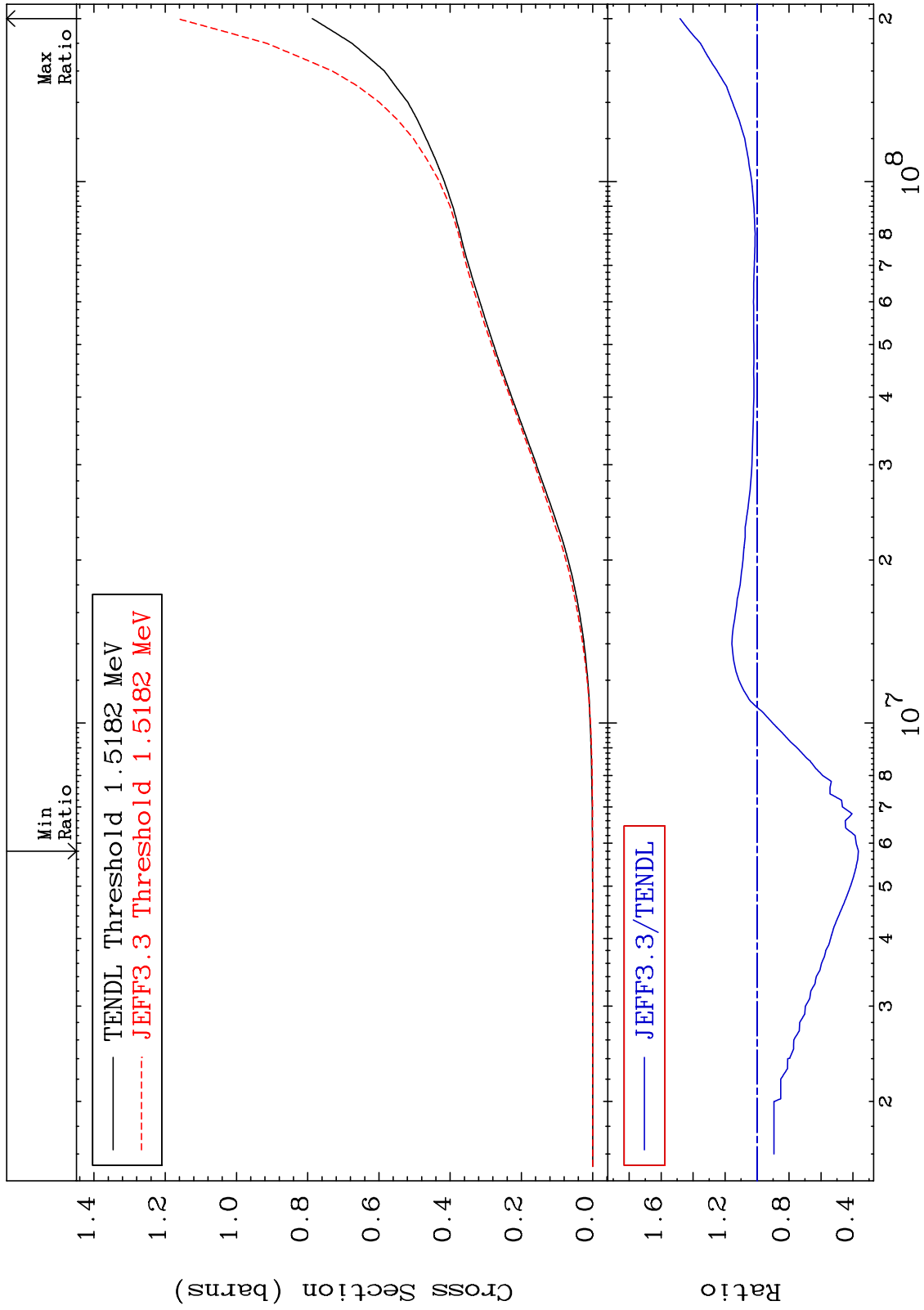




MAT 3440

Hydrogen Production  
Cross Section

34-Se-79  
-63.41 To 48.21 %

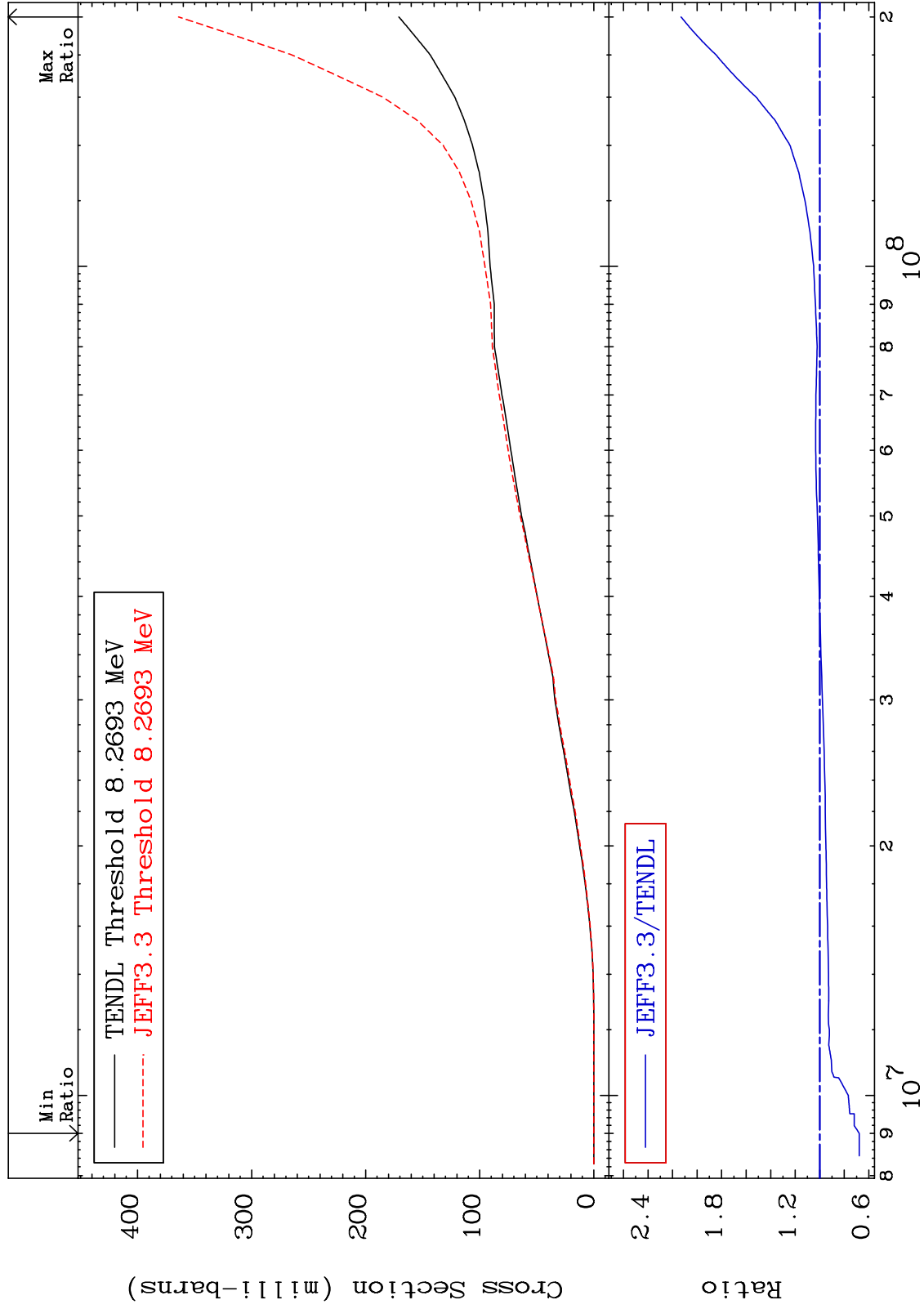




MAT 3440

Deuterium Production  
Cross Section

$^{34}\text{Se-79}$   
-32.23 To 113.1 %



64

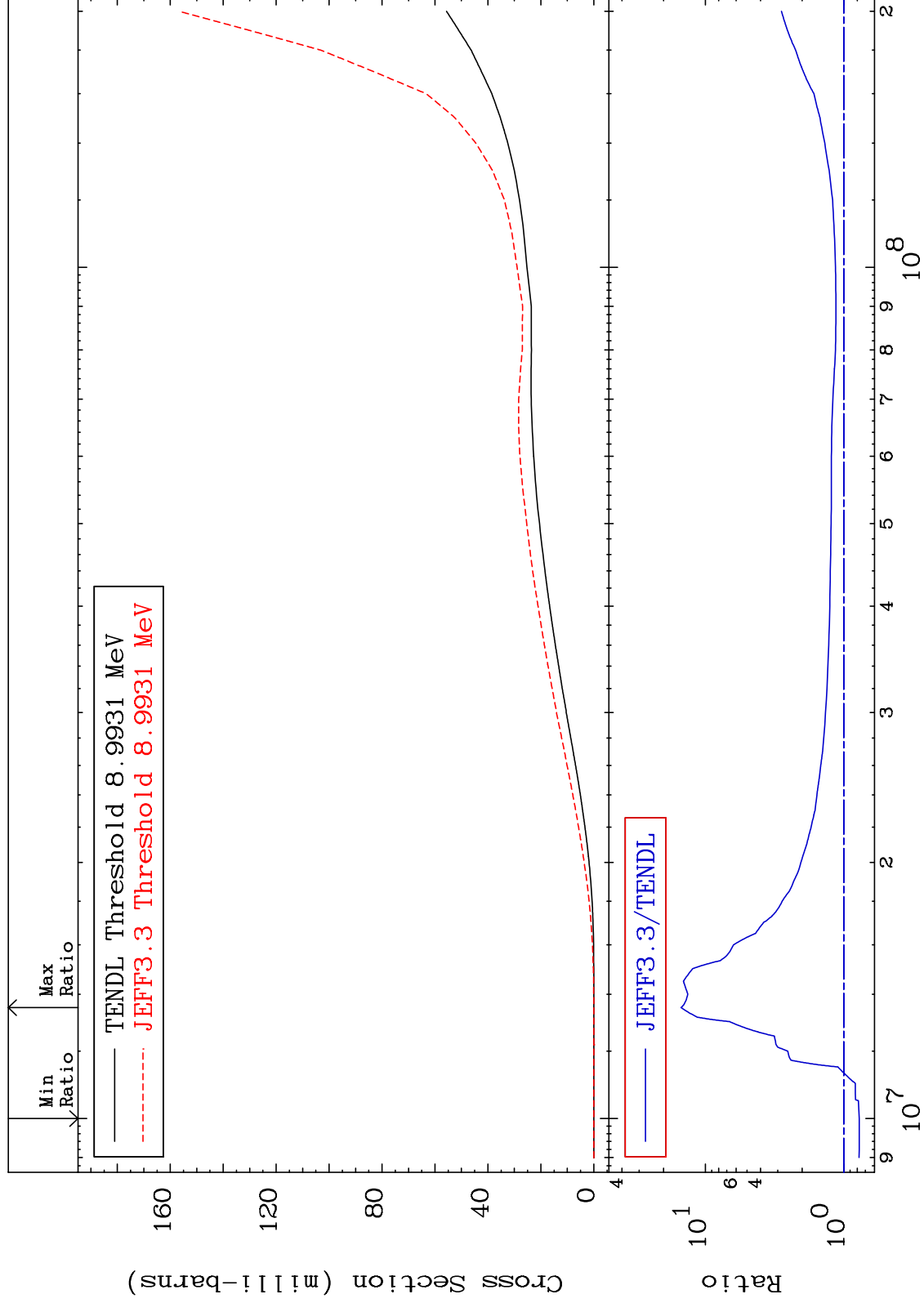
Incident Energy (eV)

$^{34}\text{Se-79}$

MAT 3440

Tritium Production  
Cross Section

<sup>34</sup>Se-79  
-22.71 To 1397. %



65

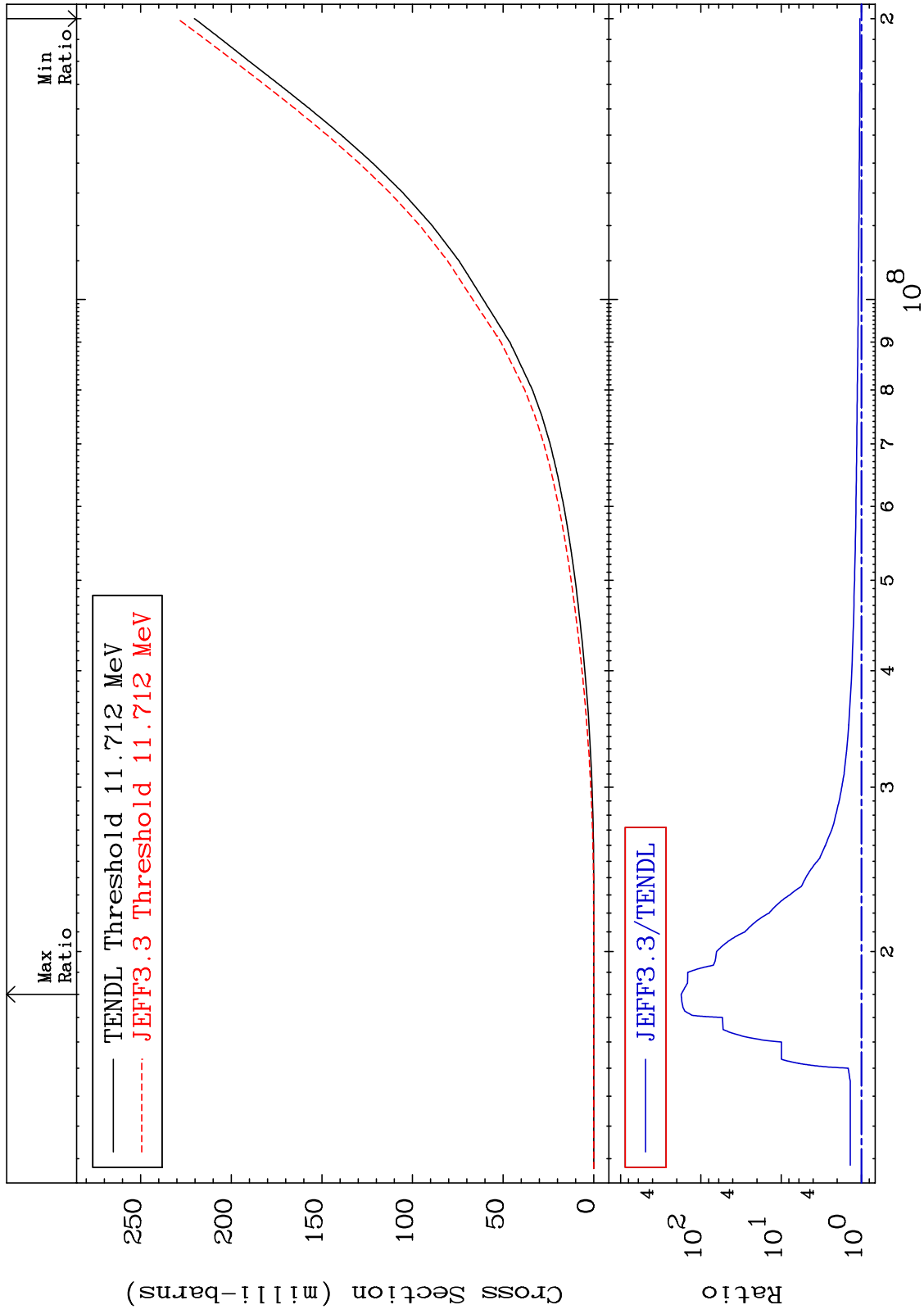
Incident Energy (eV)

<sup>34</sup>Se-79

MAT 3440

He-3 Production  
Cross Section

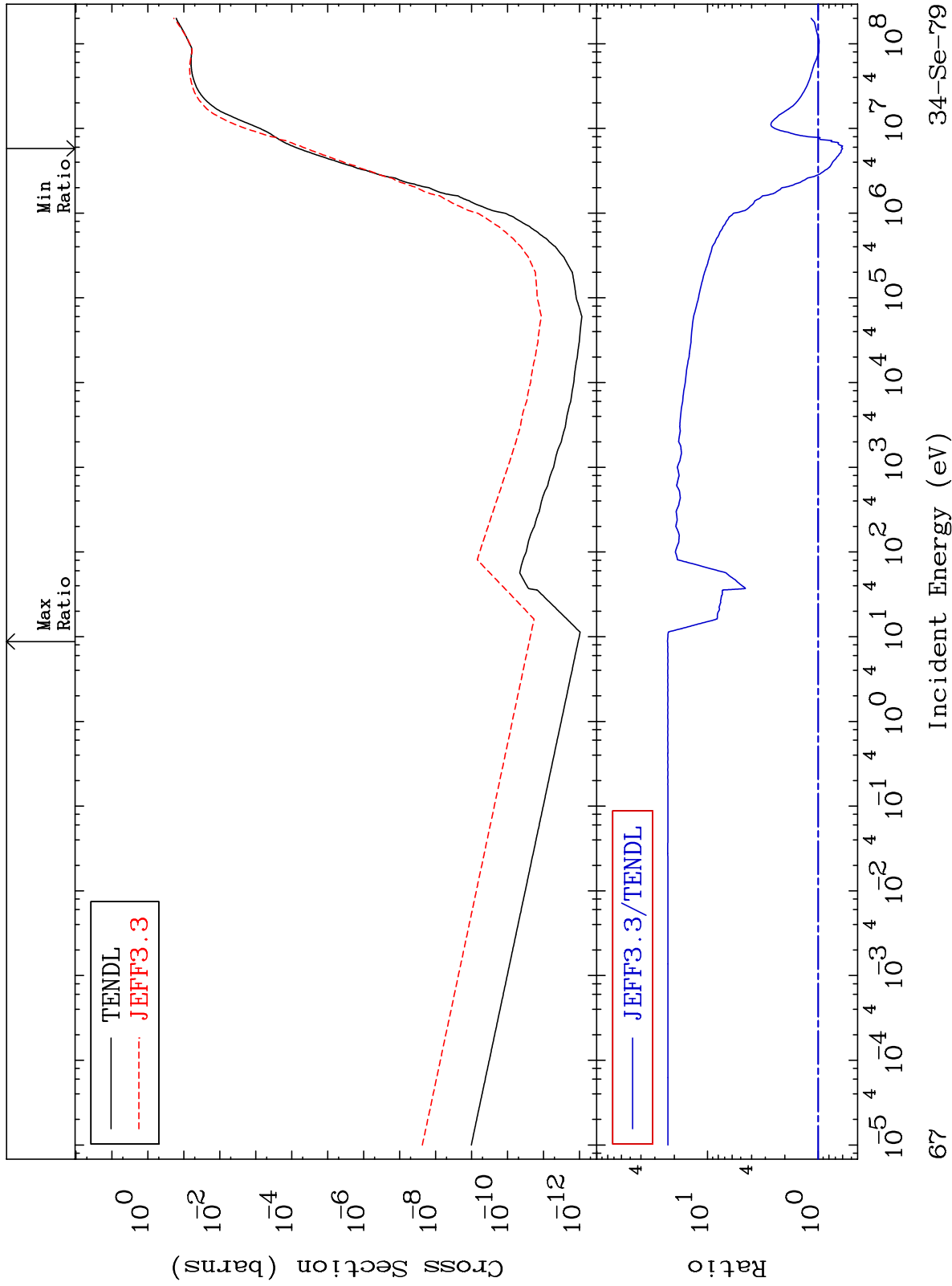
34-Se-79  
4.283 To 9999. %



MAT 3440

He-4 Production  
Cross Section

34-Se-79  
-40.03 To 2198. %



67

34-Se-79

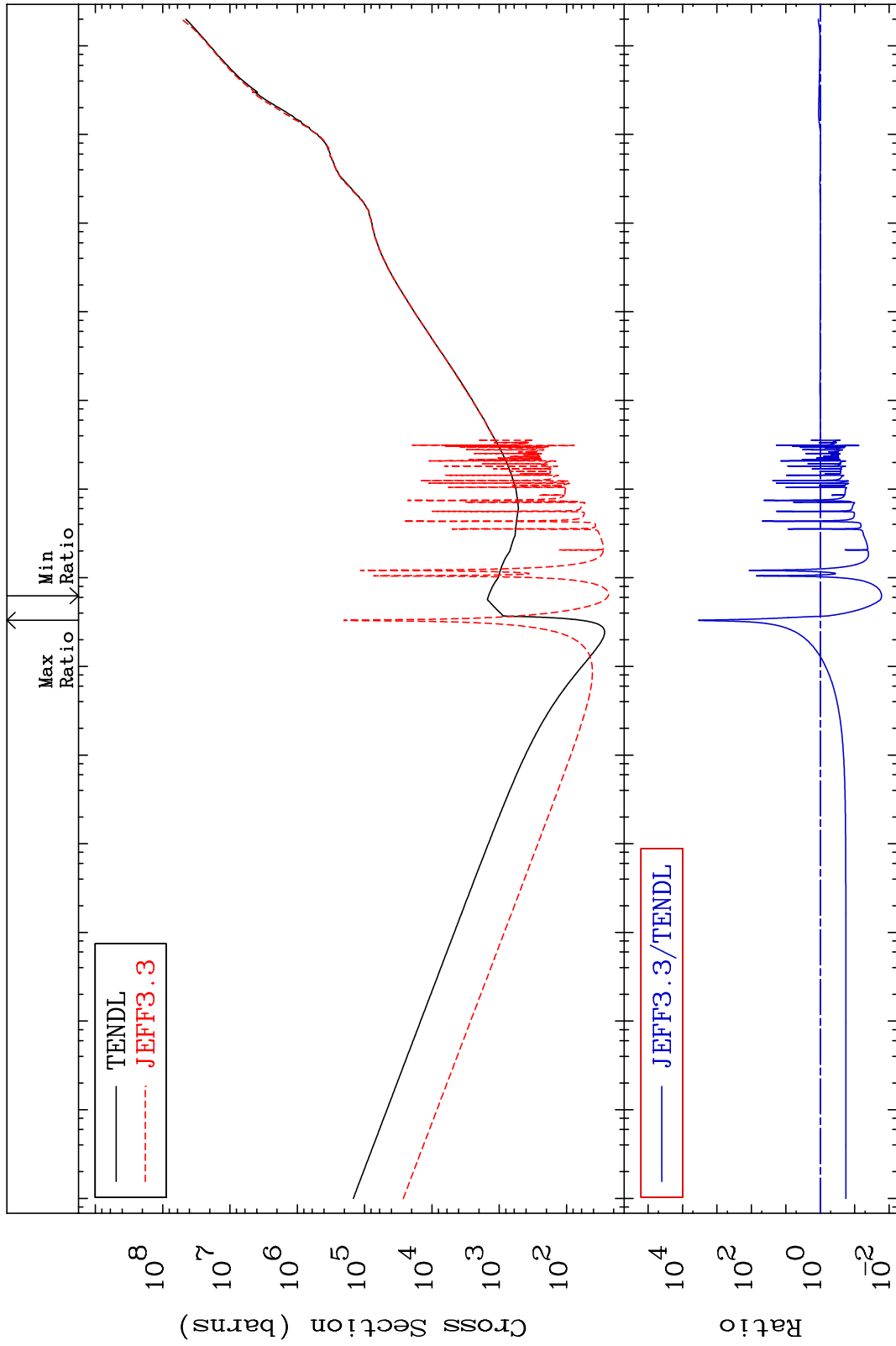
MAT 3440

Kerma total (eV-barns)

34-Se-79

-98.34 To 9999. %

Cross Section



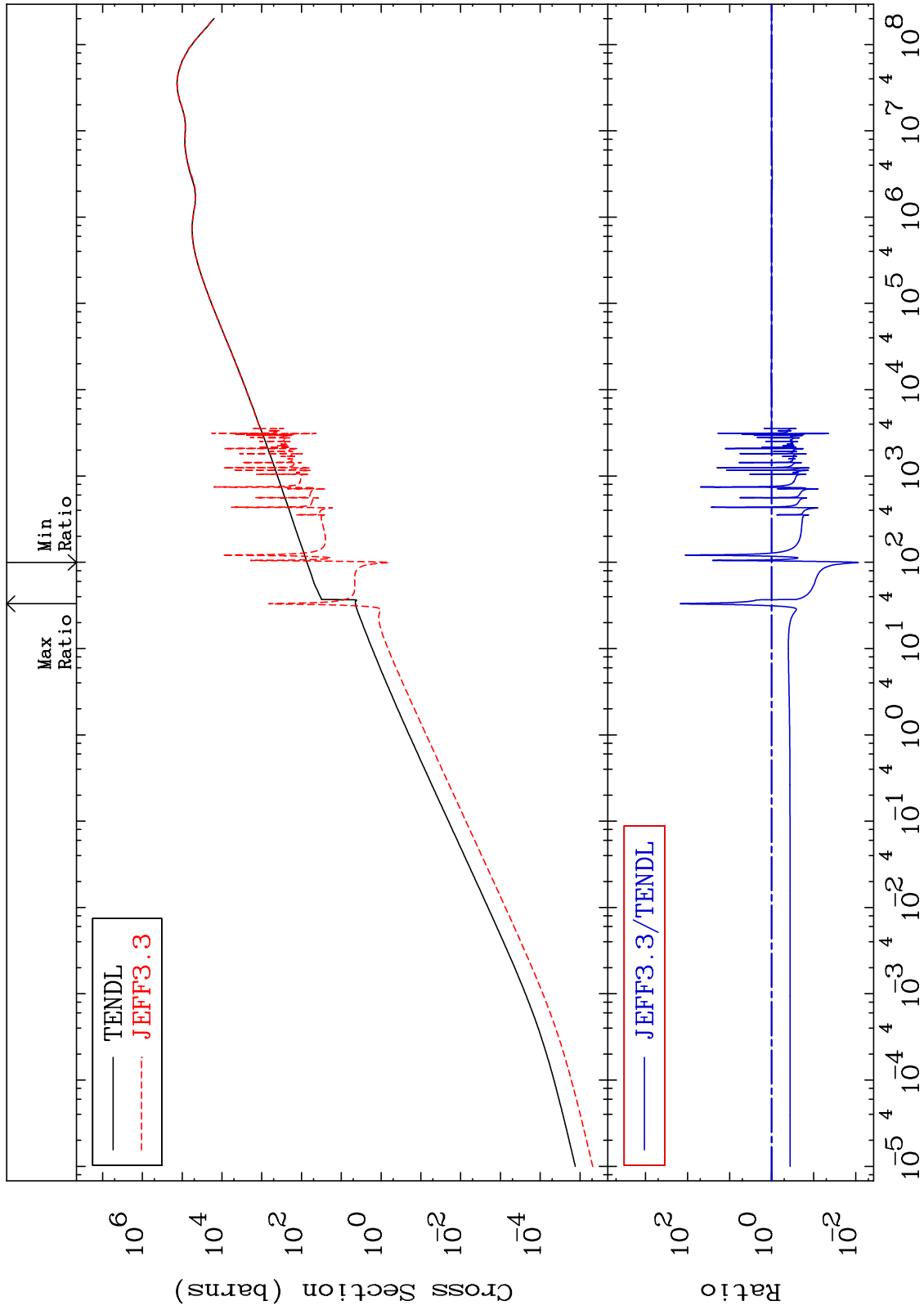
Incident Energy (eV)

34-Se-79

MAT 3440

Kerma elastic  
Cross Section

34-Se-79  
-99.14 To 9999. %



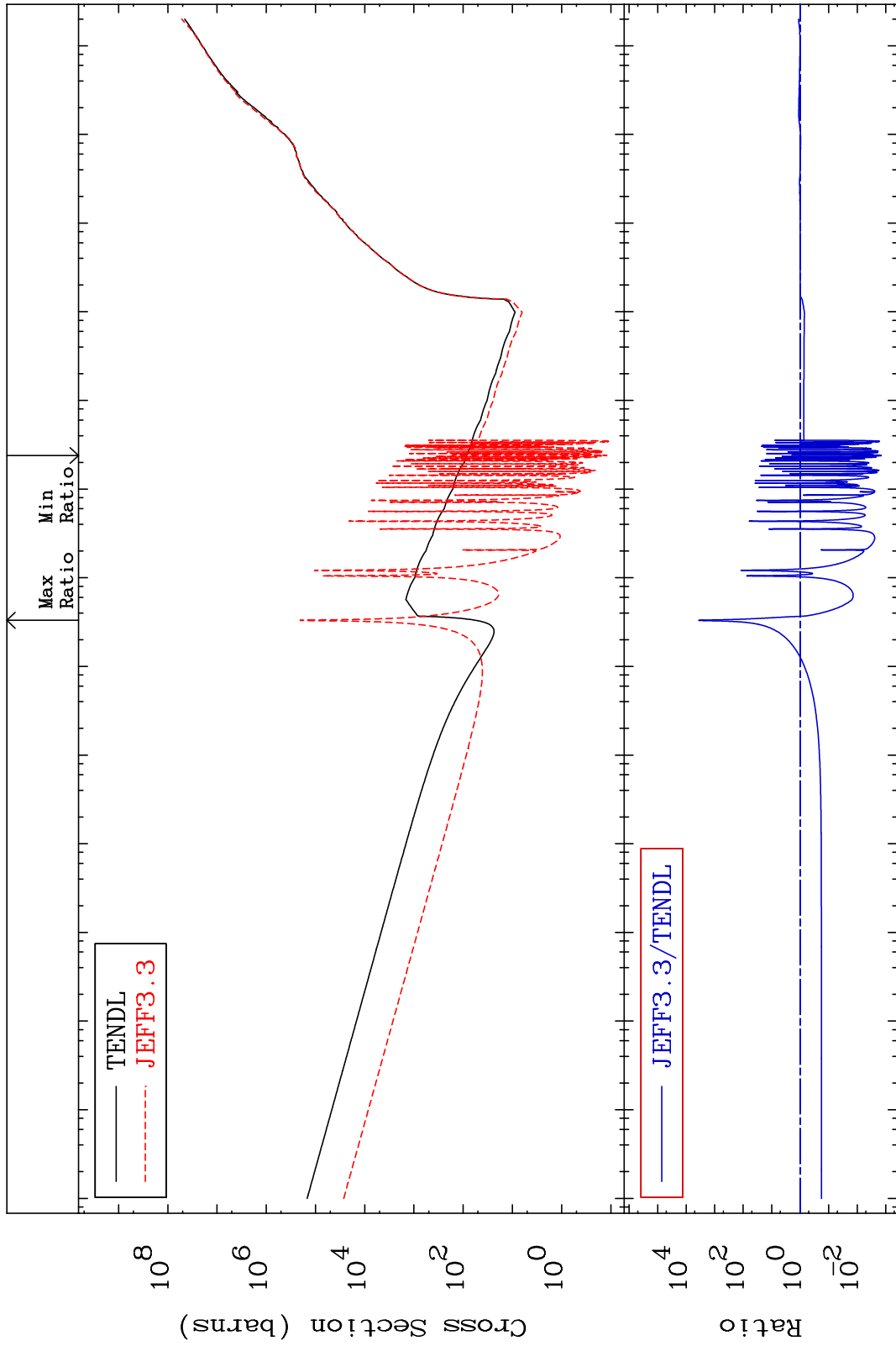
— TENDL  
- - - JEFF3.3

— JEFF3.3/TENDL

MAT 3440

Kerma non-elastic (all but mt2)  
Cross Section

34-Se-79  
-99.86 To 9999. %



70

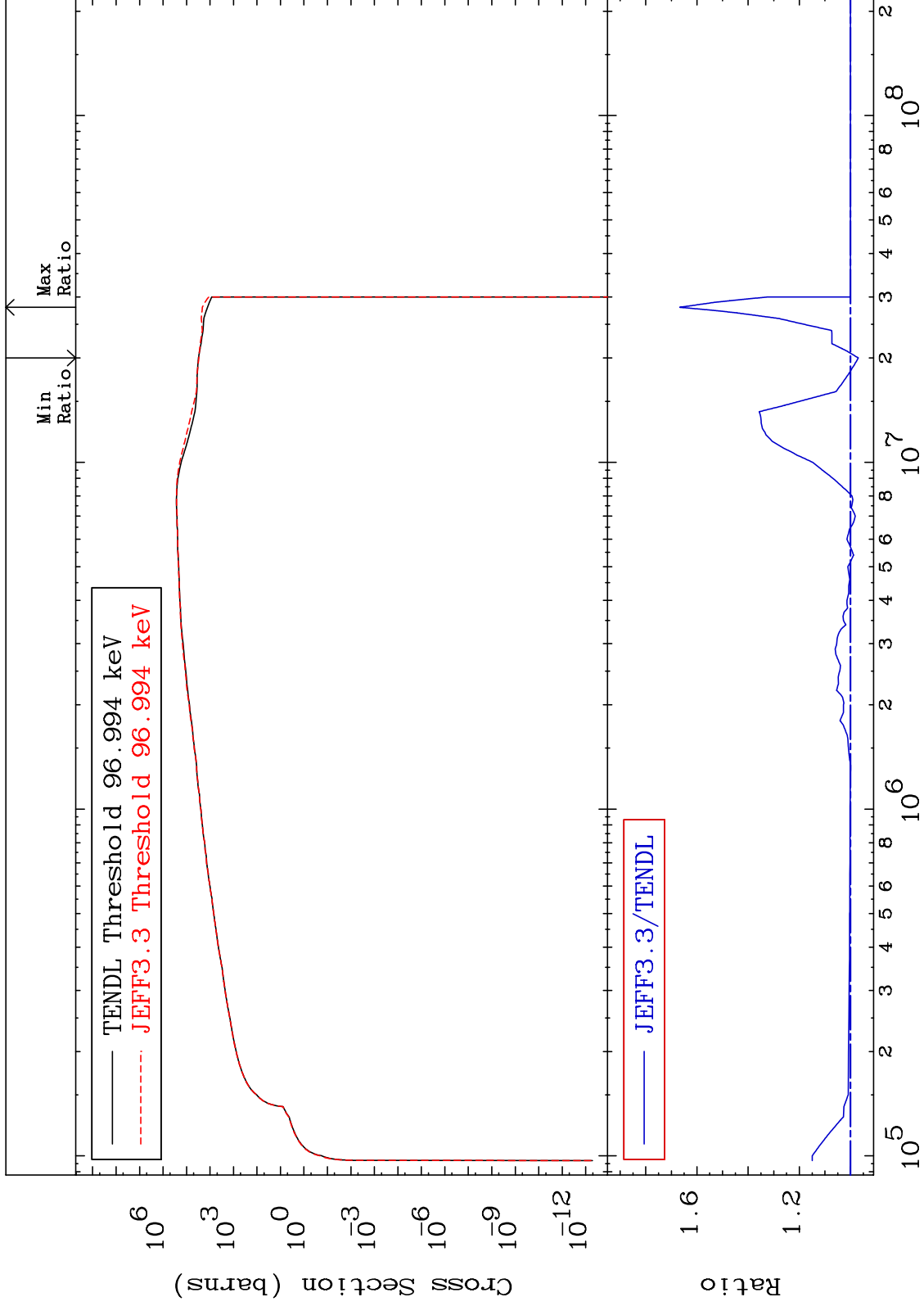
Incident Energy (eV)

34-Se-79

MAT 3440

Kerma inelastic (mt51-91)  
Cross Section

34-Se-79  
-3.049 To 66.69 %



71

Incident Energy (eV)

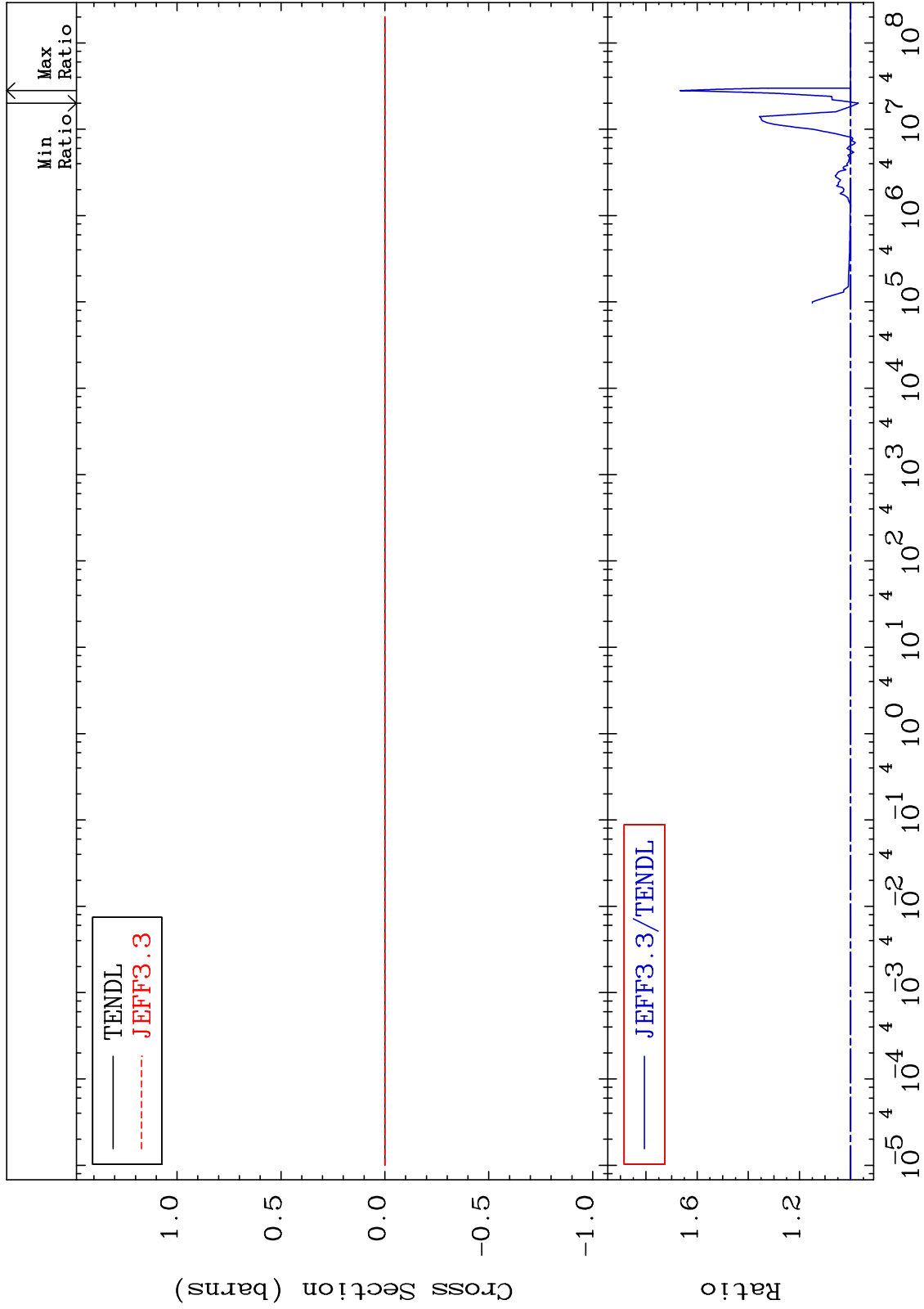
34-Se-79



MAT 3440

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

34-Se-79  
-3.049 To 66.69 %



72

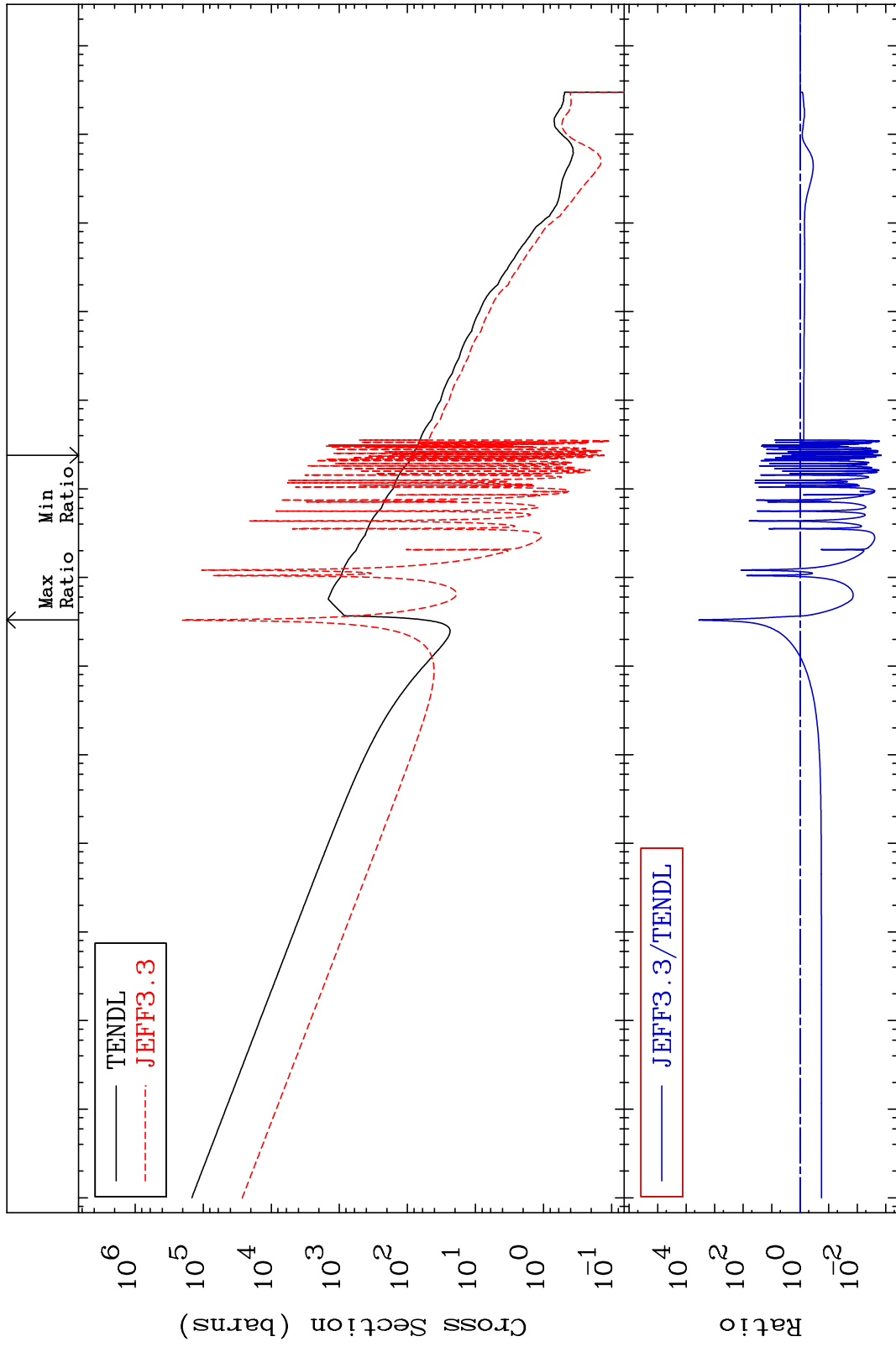
Incident Energy (eV)

34-Se-79

MAT 3440

Kerma capture (mt102)  
Cross Section

34-Se-79  
-99.86 To 9999. %



73

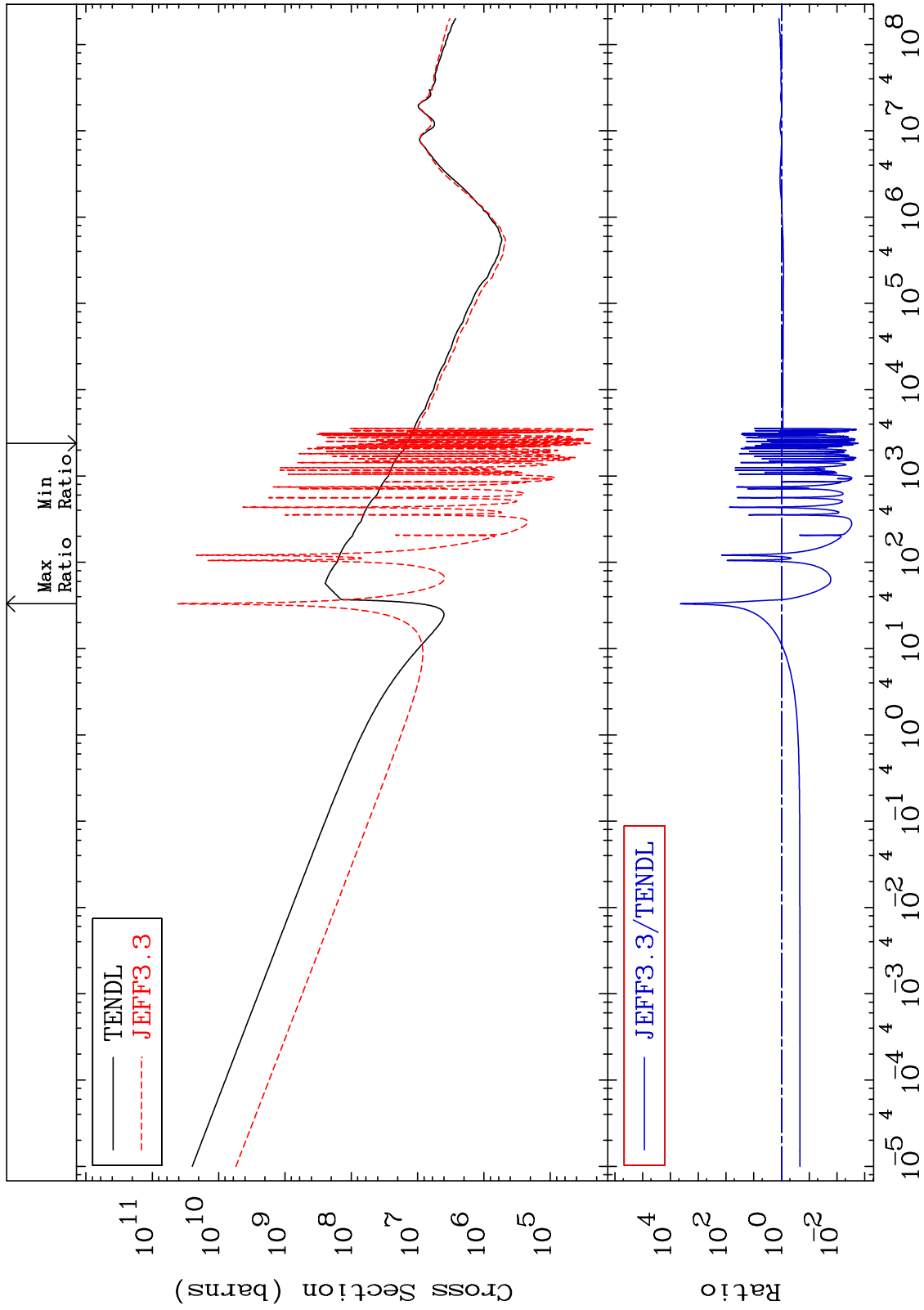
Incident Energy (eV)

34-Se-79

MAT 3440

Total photon (eV-barns)  
Cross Section

34-Se-79  
-99.83 To 9999. %



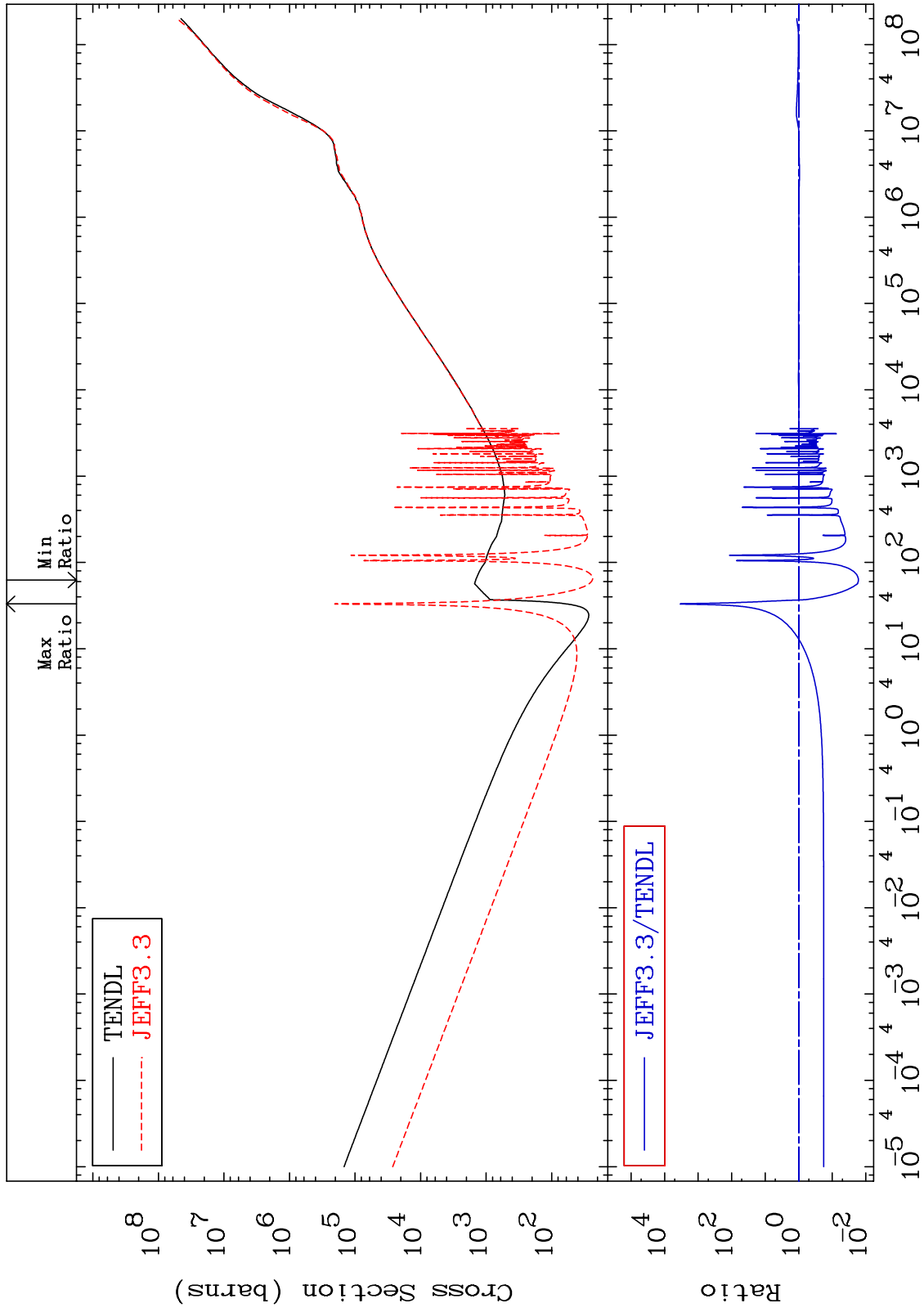
74

34-Se-79

MAT 3440

Total kinematic kerma (high limit)  
Cross Section

34-Se-79  
-98.34 To 9999. %



75

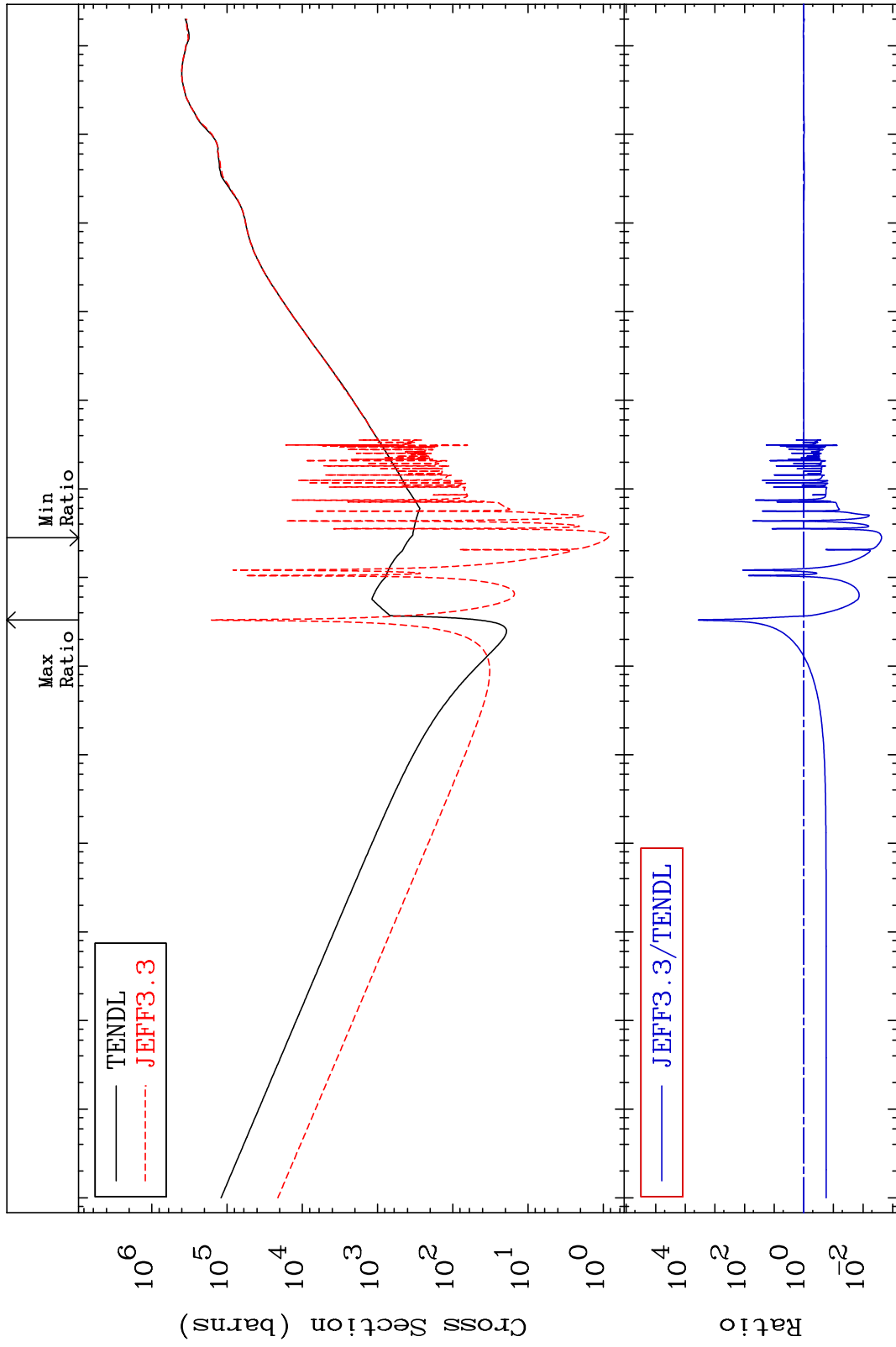
Incident Energy (eV)

34-Se-79

MAT 3440

Dpa total (eV-barns)  
Cross Section

34-Se-79  
-99.76 To 9999. %



76

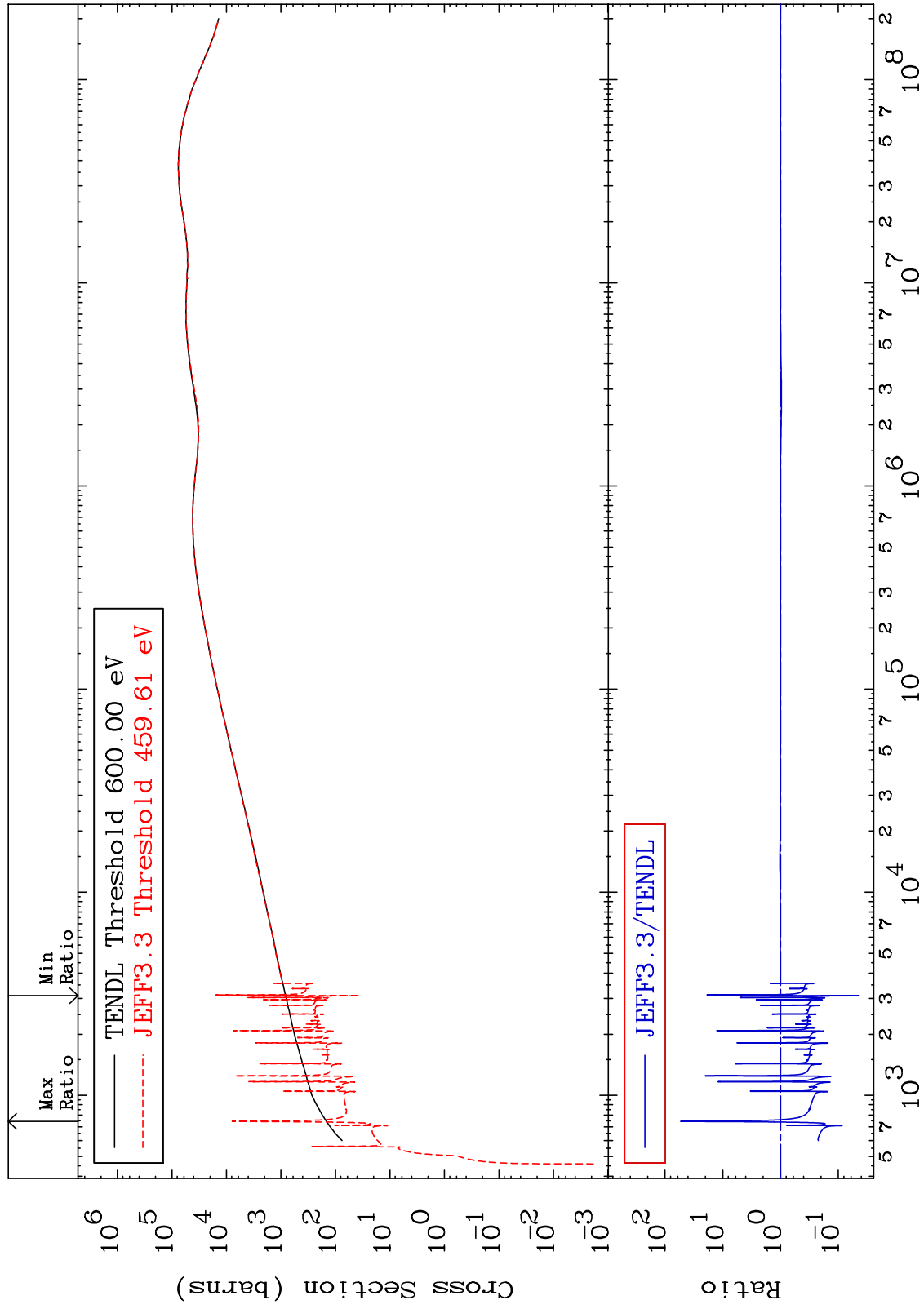
Incident Energy (eV)

34-Se-79

MAT 3440

Dpa elastic (mt2)  
Cross Section

34-Se-79  
-95.53 To 5304. %



77

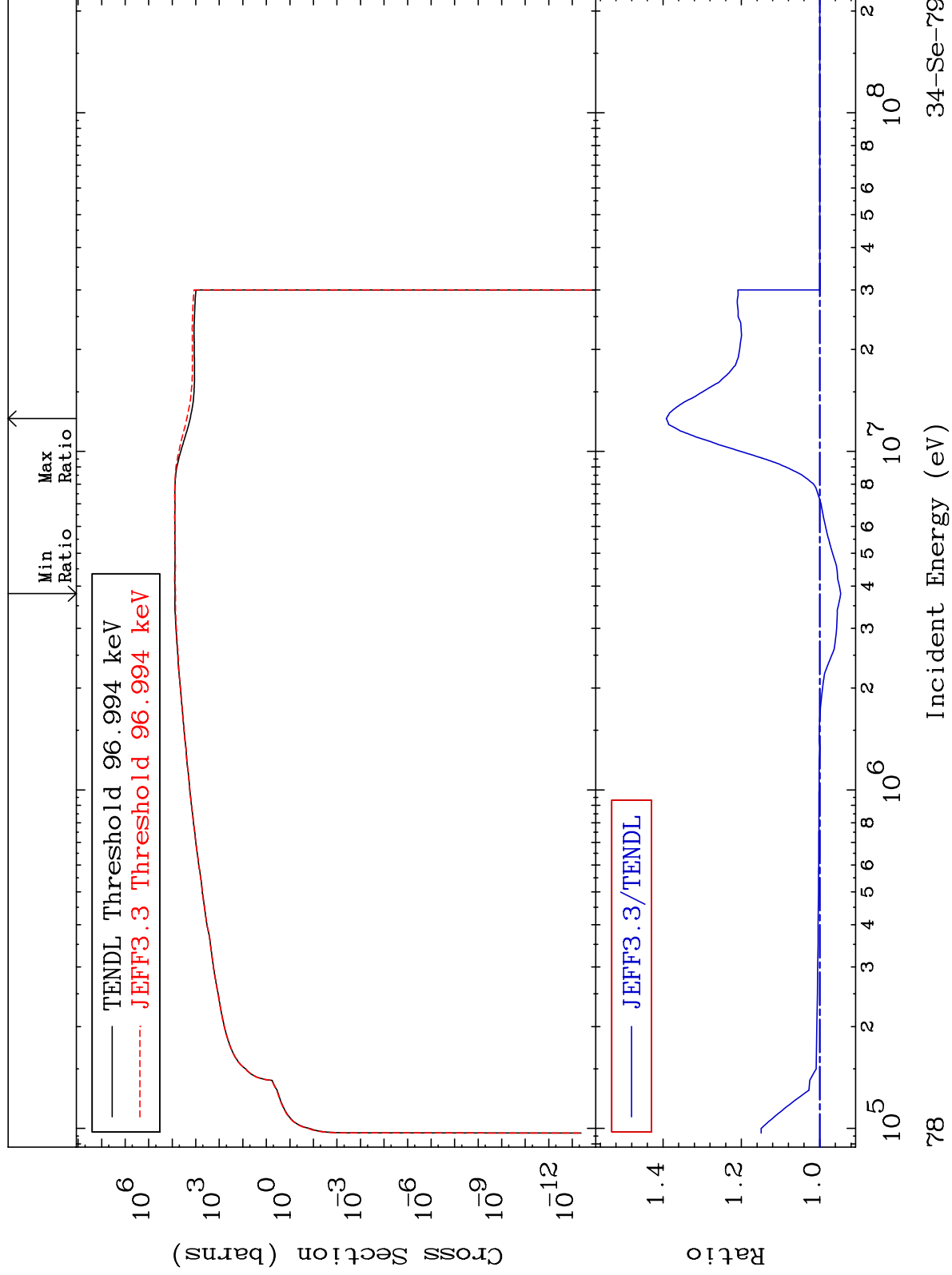
Incident Energy (eV)

34-Se-79

MAT 3440

Dpa inelastic (mt51-91)  
Cross Section

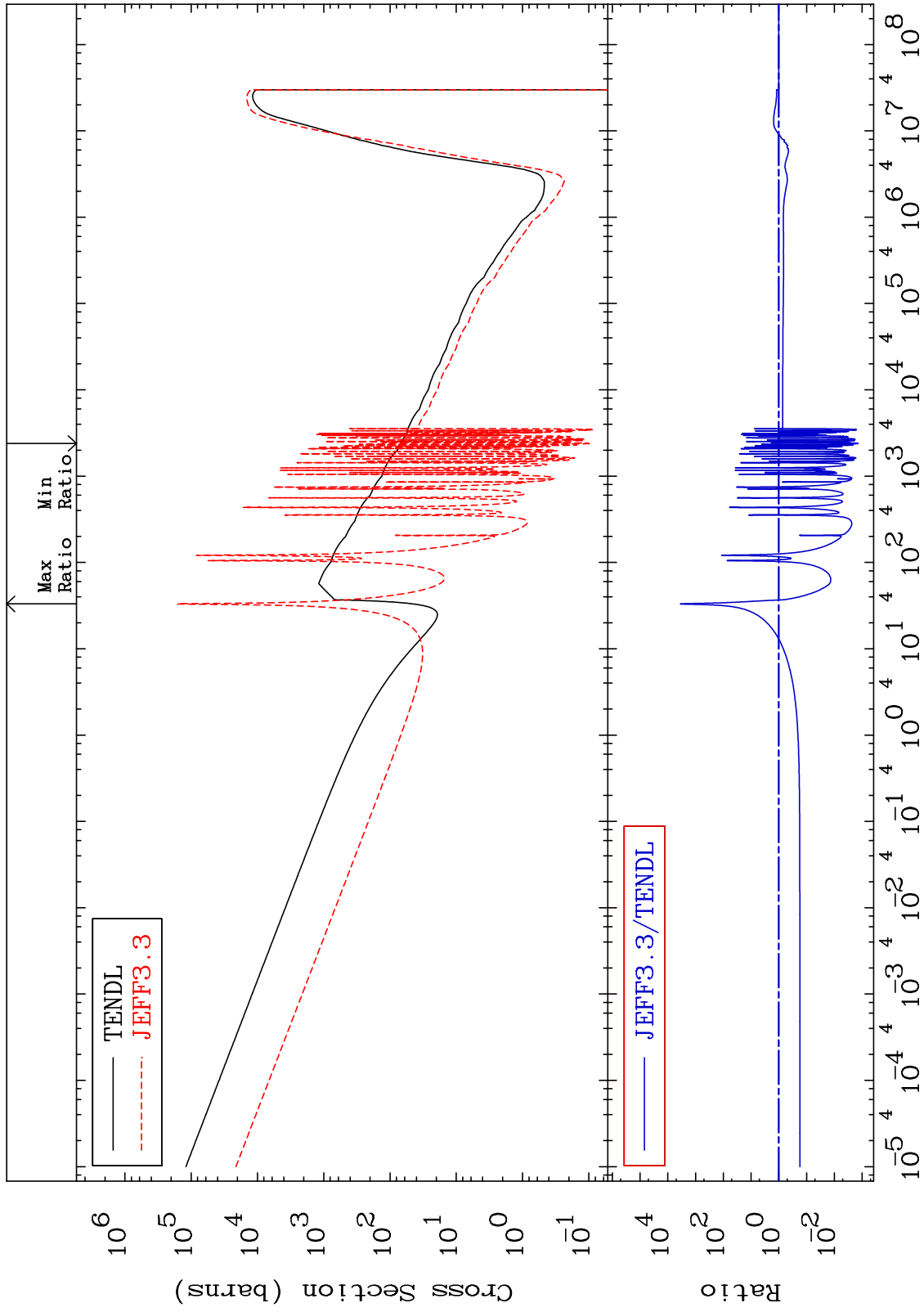
34-Se-79  
-5.354 To 39.15 %



MAT 3440

Dpa disappearance (mt102 -120)  
Cross Section

34-Se-79  
-99.86 To 9999. %



79

Incident Energy (eV)

34-Se-79

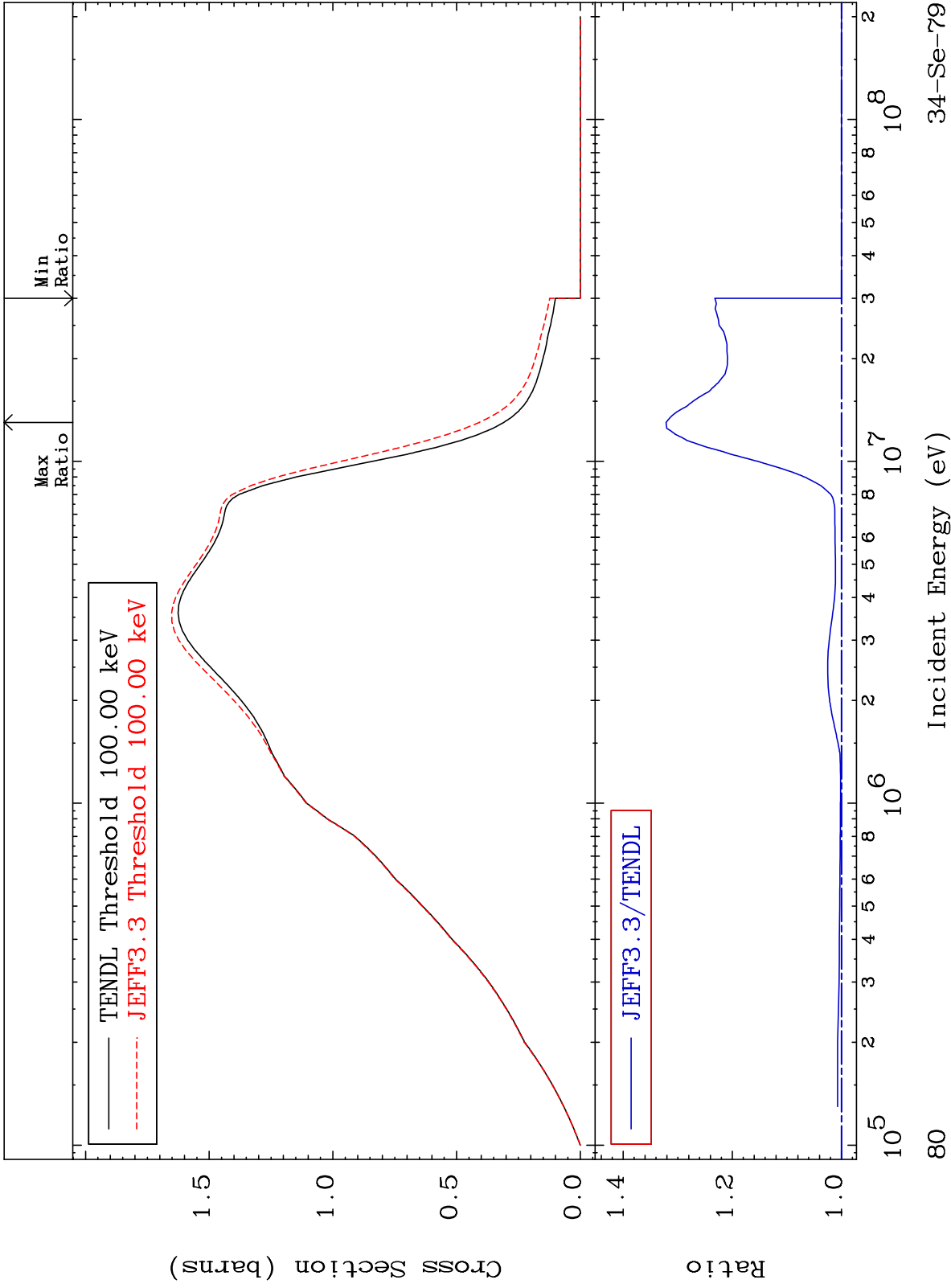


MAT 3440

<sup>34</sup>Se-79

Inelastic:<sup>34</sup>Se-79g

Radionuclide Production Cross Section 0.000 To 32.13 %



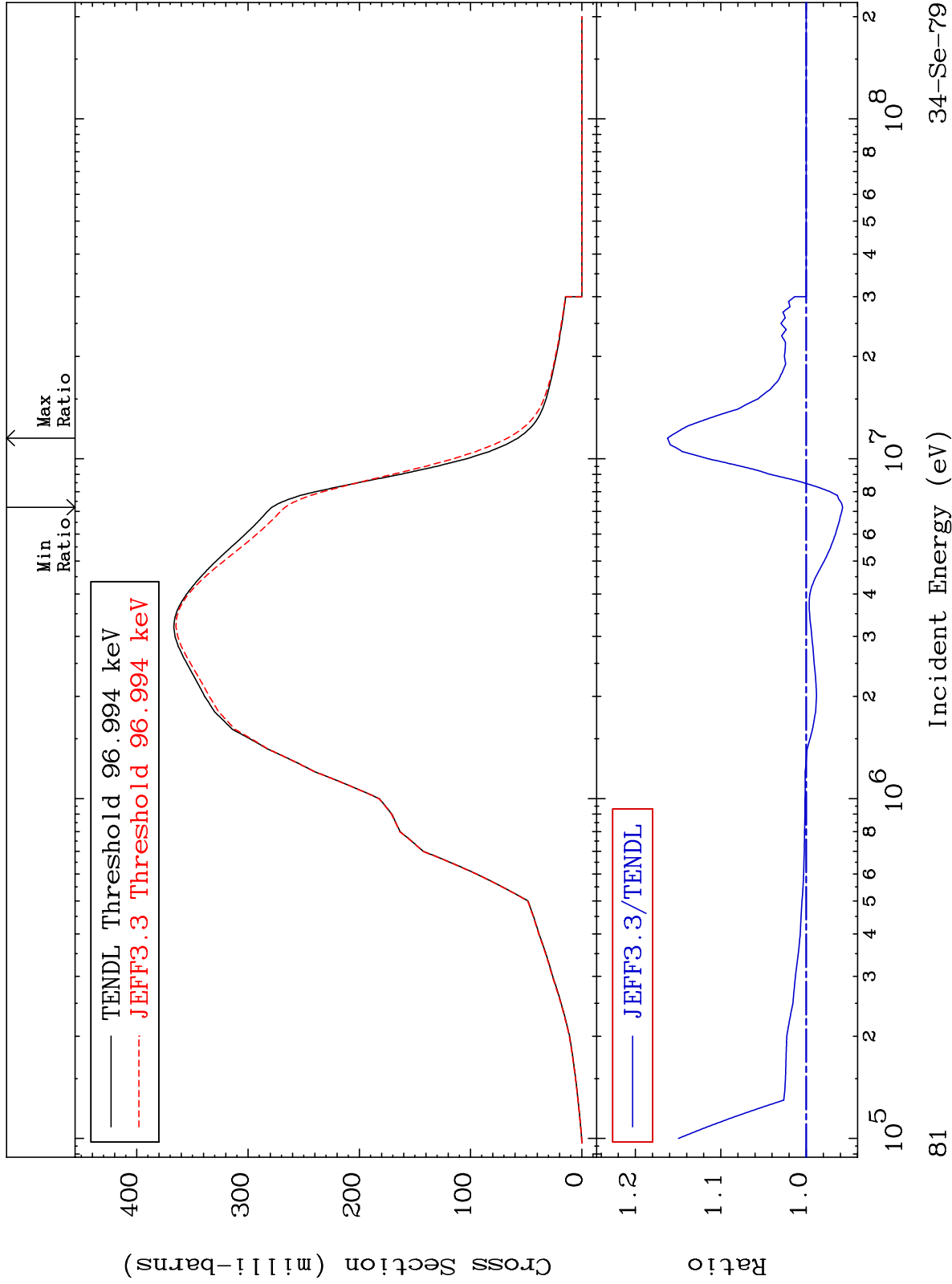
<sup>34</sup>Se-79

MAT 3440

Inelastic:34-Se-79m1

34-Se-79

Radionuclide Production Cross Section -4.267 To 16.24 %

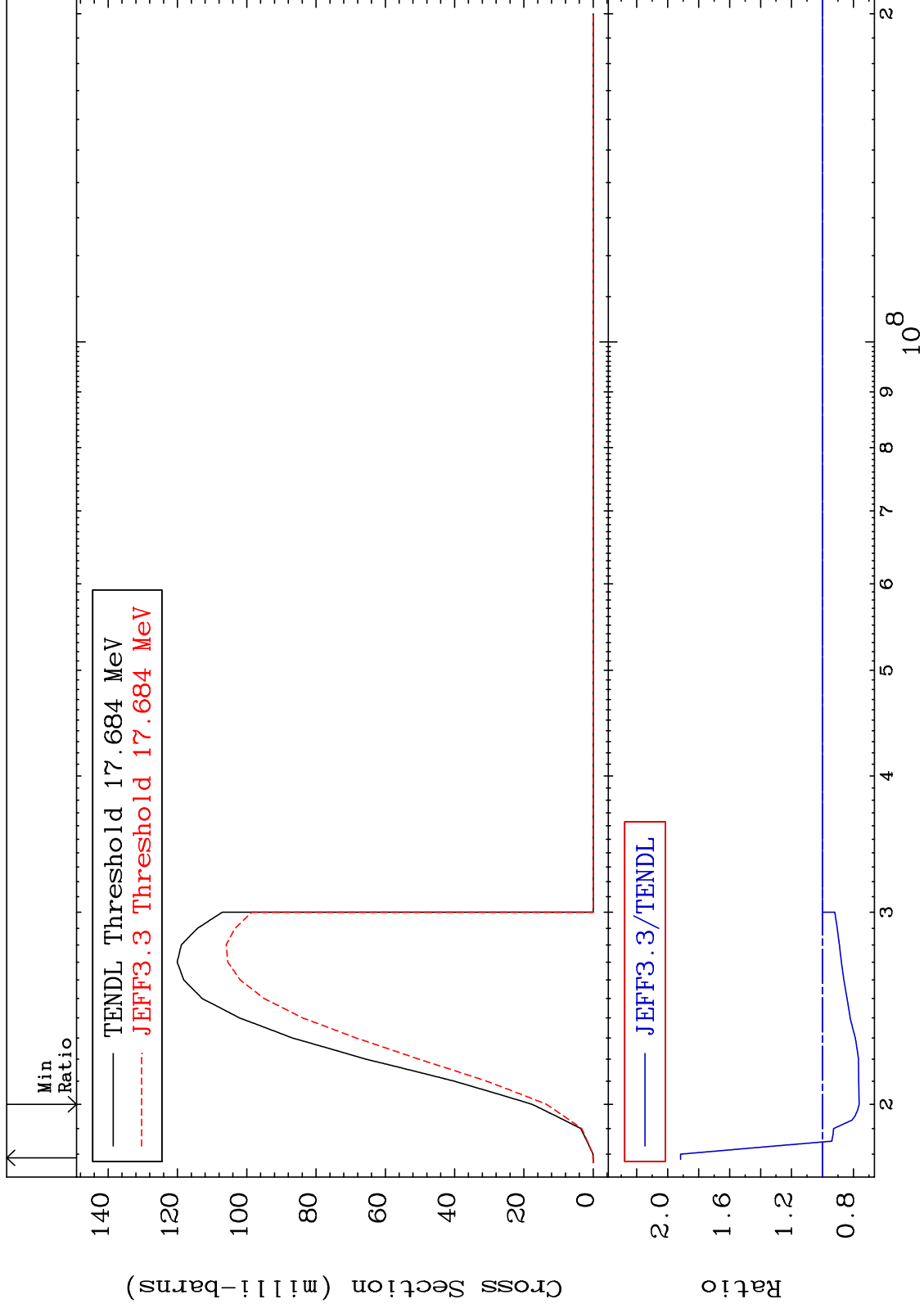


MAT 3440

(n,3n):34-Se-77g

34-Se-79

Radionuclide Production Cross Section -23.67 To 91.62 %



82

Incident Energy (eV)

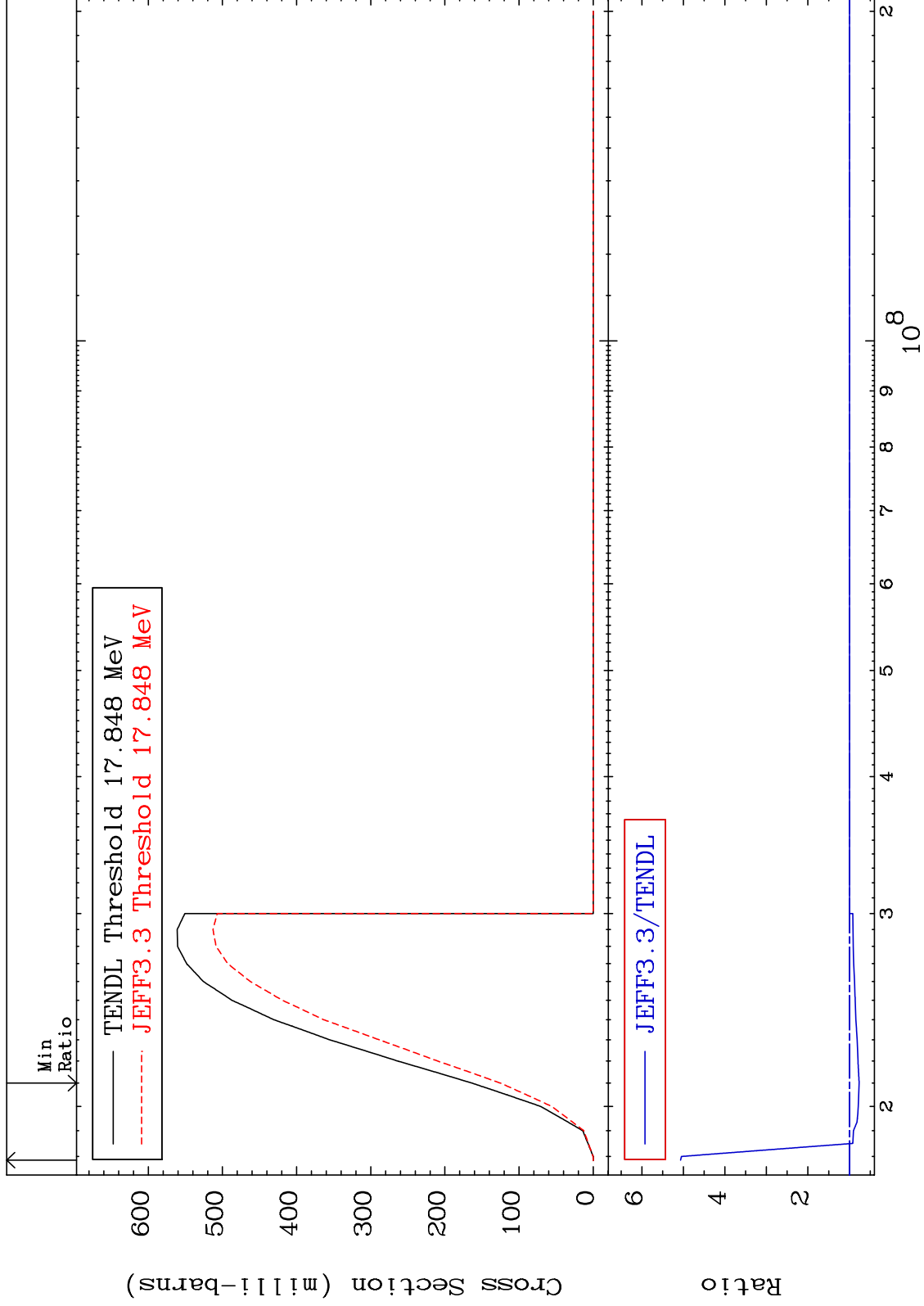
34-Se-79

MAT 3440

(n,3n):34-Se-77m1

34-Se-79

Radionuclide Production Cross Section -23.45 To 406.6 %

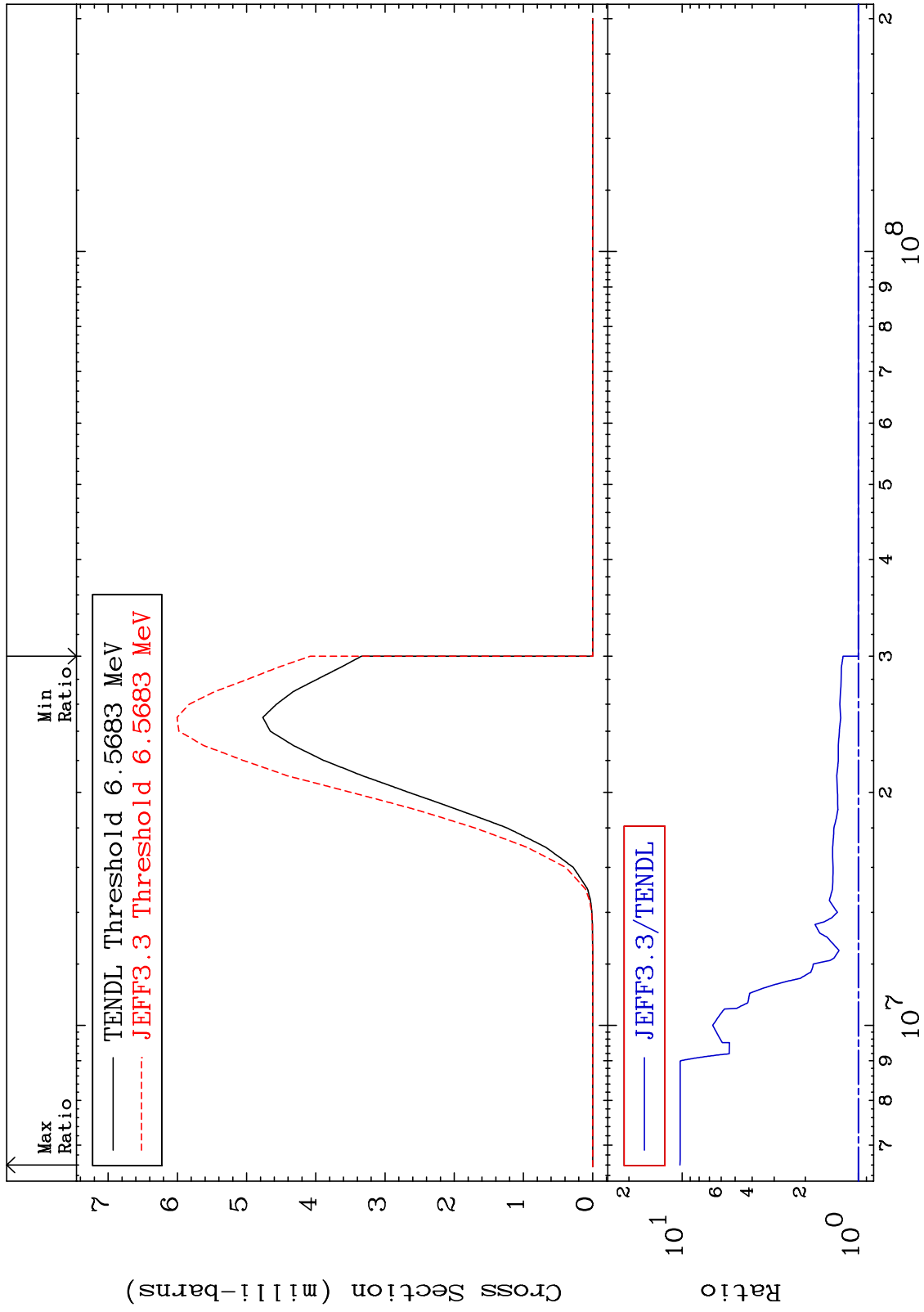


MAT 3440

(n, n')  $\alpha$ : 32-Ge-75g

34-Se-79

Radionuclide Production Cross Section 0.000 To 926.5 %

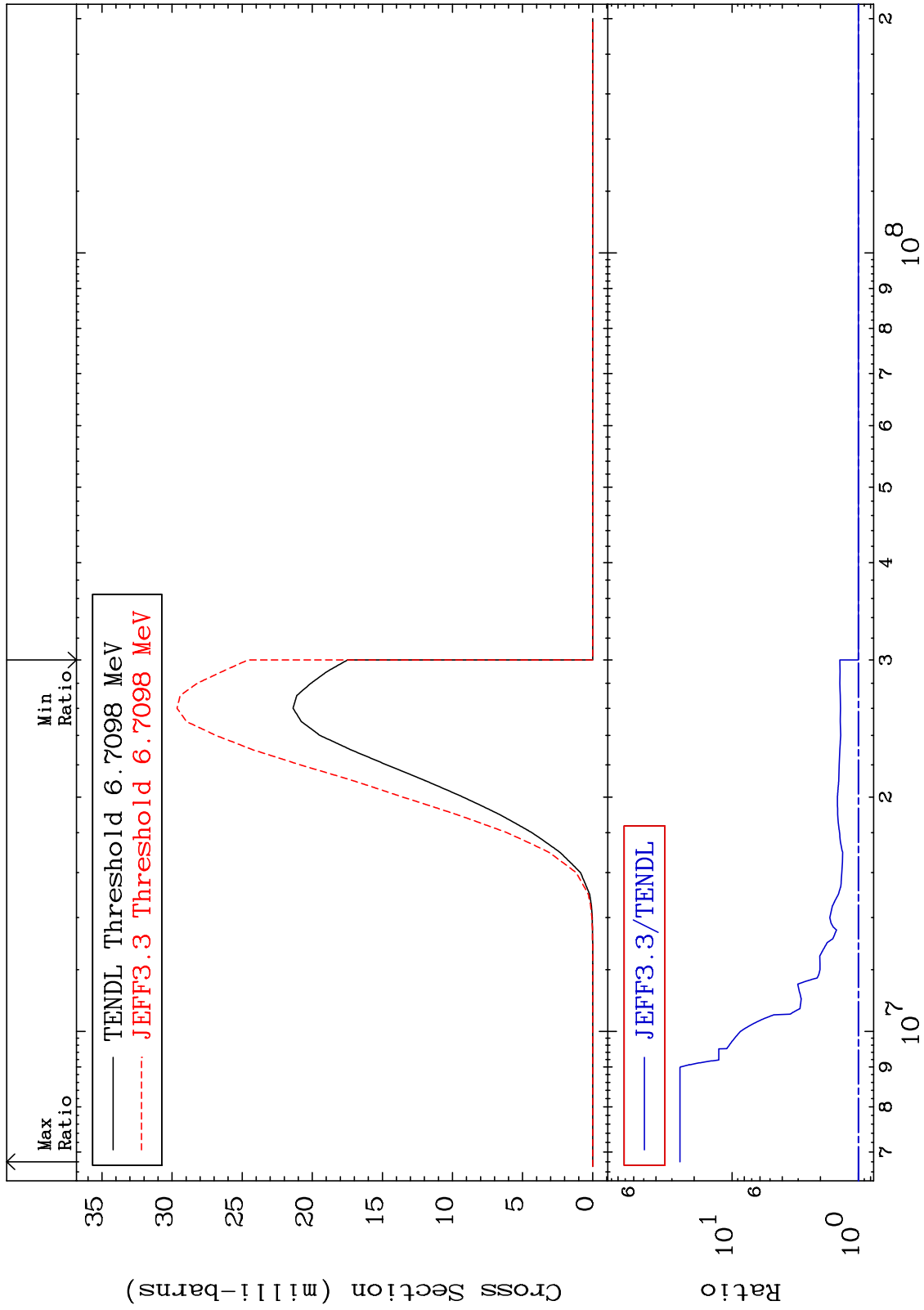


MAT 3440

(n, n')  $\alpha$ :32-Ge-75m2

34-Se-79

Radionuclide Production Cross Section 0.000 To 2482. %

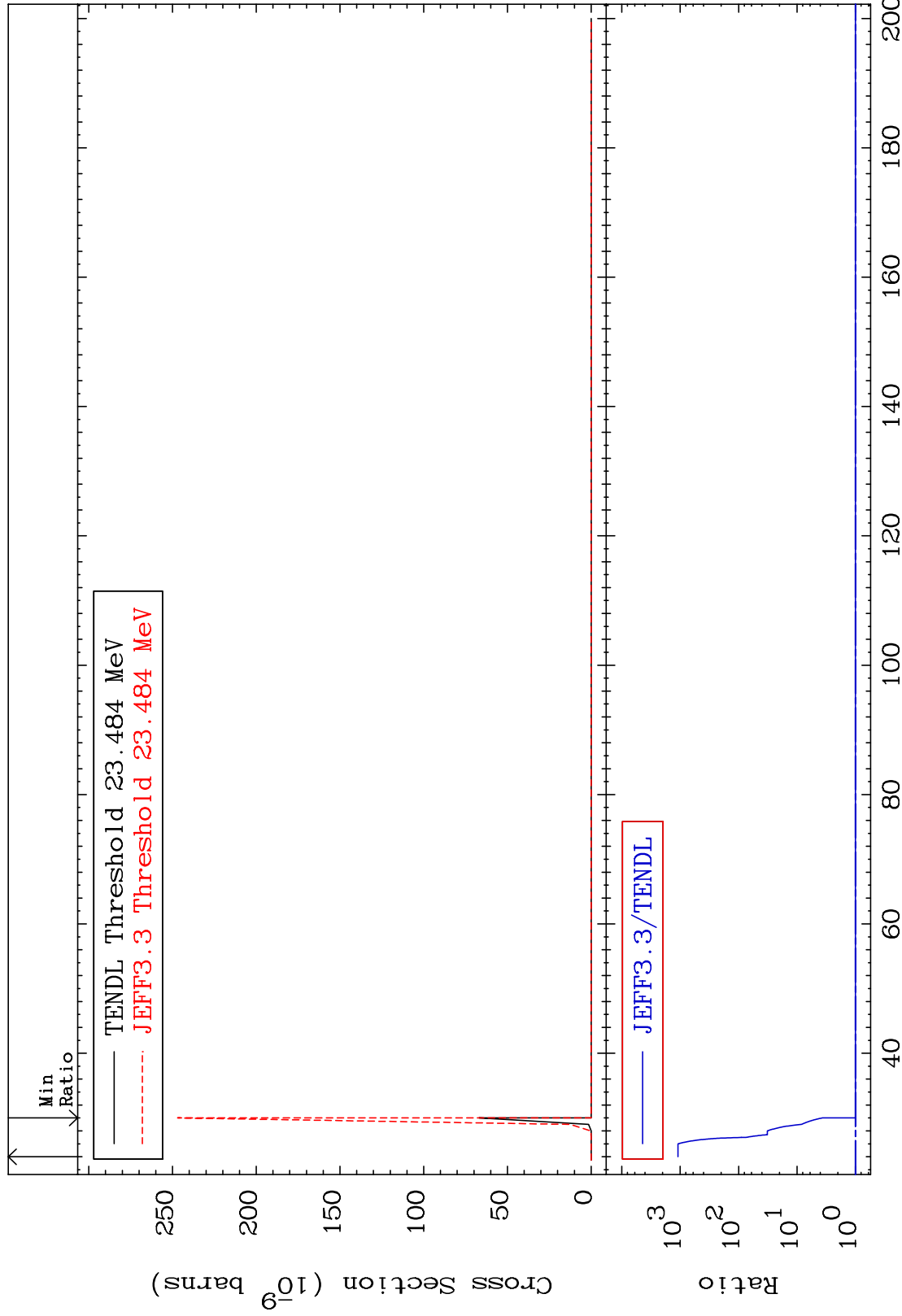


MAT 3440

(n,3n)  $\alpha$ :32-Ge-73g

34-Se-79

Radionuclide Production Cross Section 0.000 To 9999. %

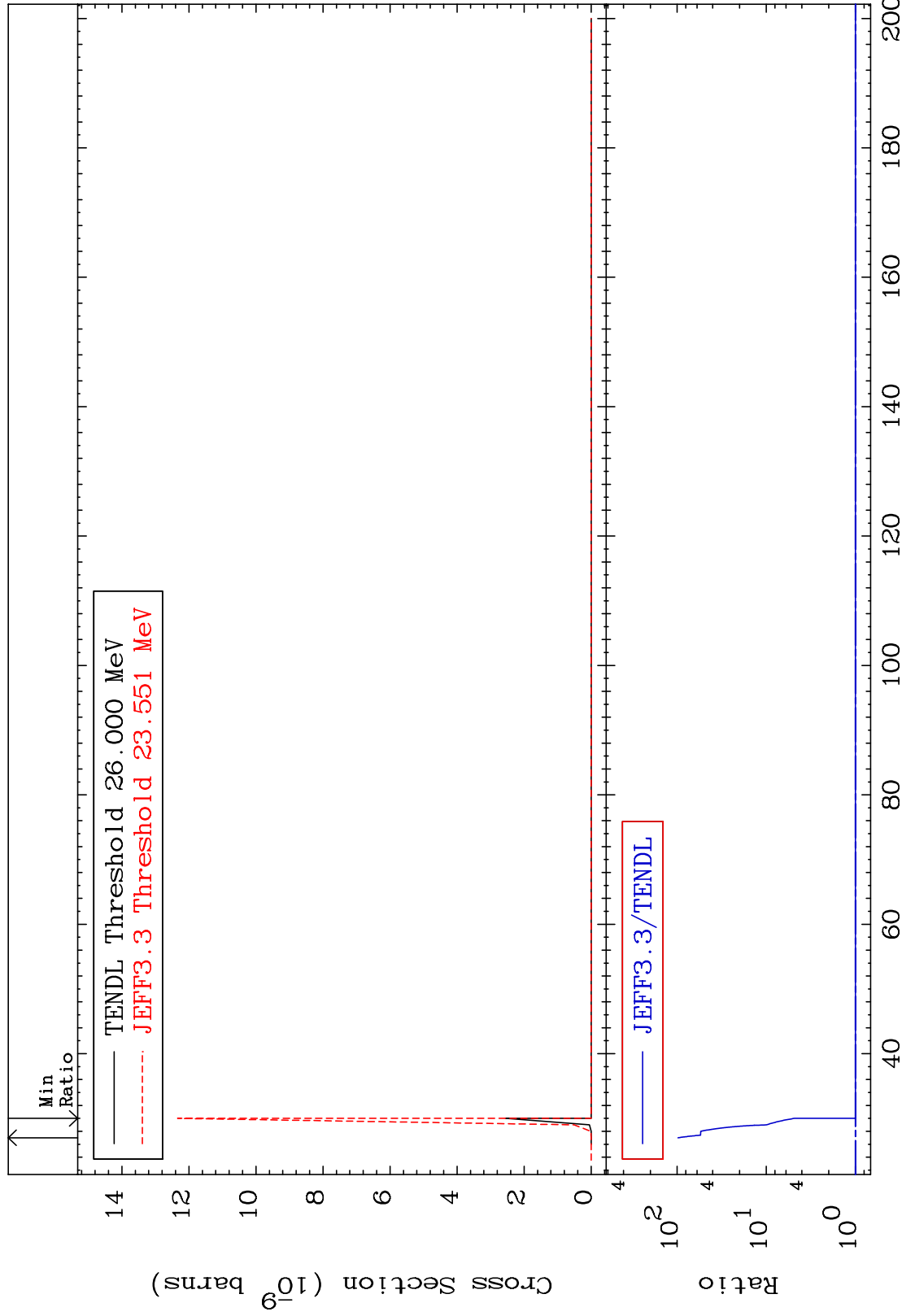


MAT 3440

(n,3n)  $\alpha$ :32-Ge-73m2

34-Se-79

Radionuclide Production Cross Section 0.000 To 9685. %



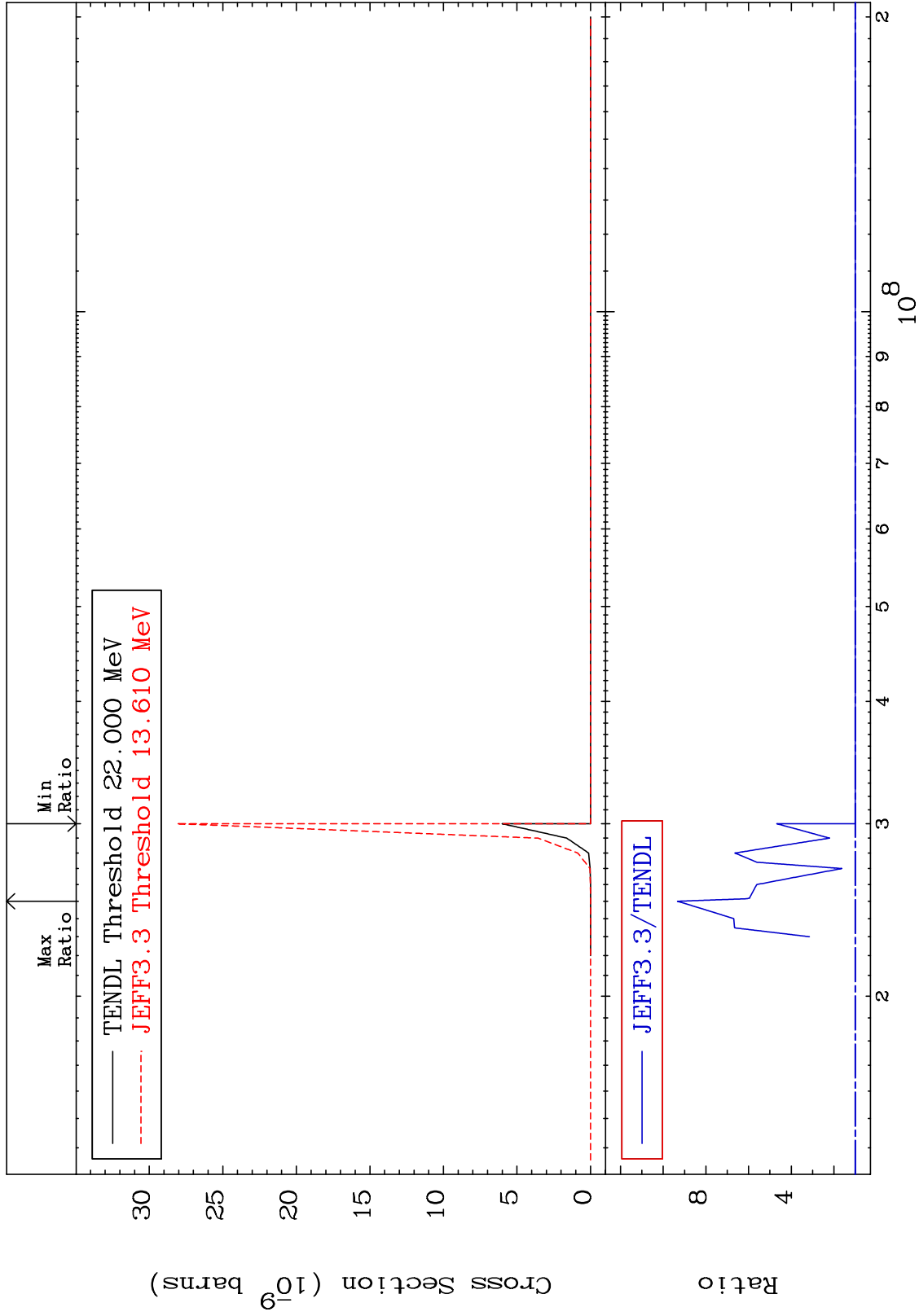


MAT 3440

(n, n')  $^{2\alpha}$ : $^{30}$ -Zn-71g

$^{34}$ -Se-79

Radionuclide Production Cross Section 0.000 To 832.9 %

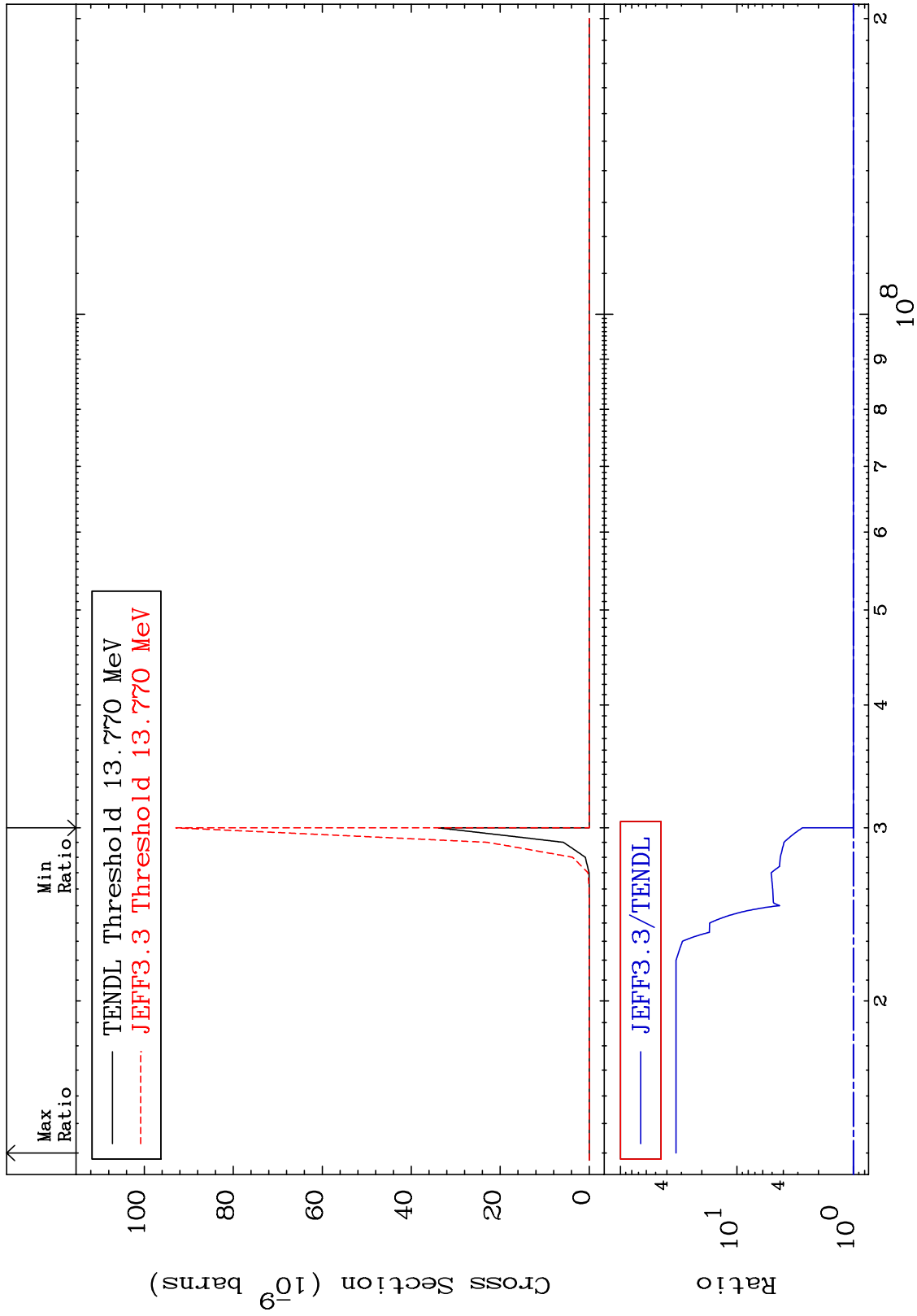


MAT 3440

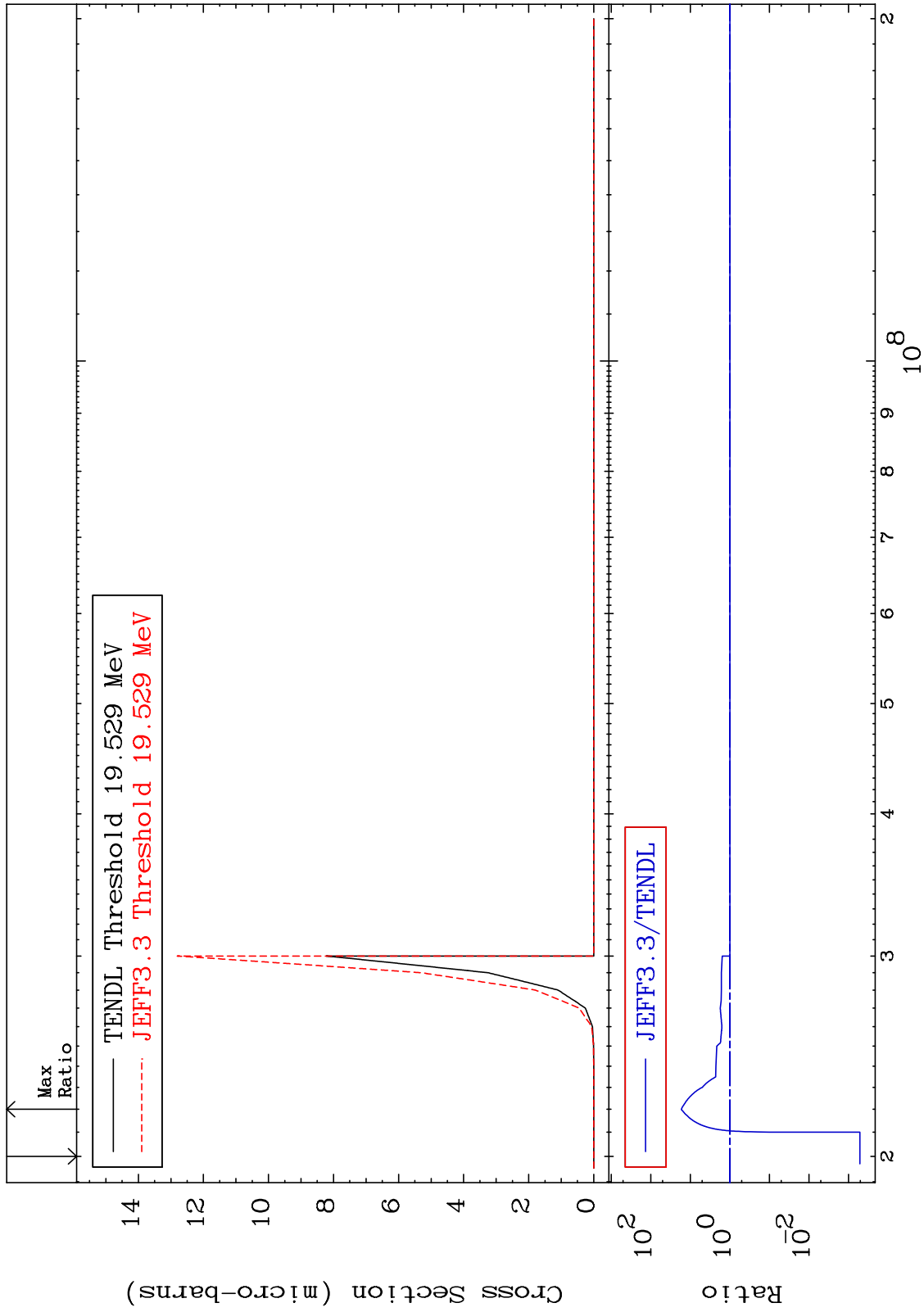
(n, n')  $2\alpha$ :30-Zn-71m1

$^{34}\text{Se-79}$

Radionuclide Production Cross Section 0.000 To 3232. %



Radionuclide Production Cross Section -99.95 To 1591. %

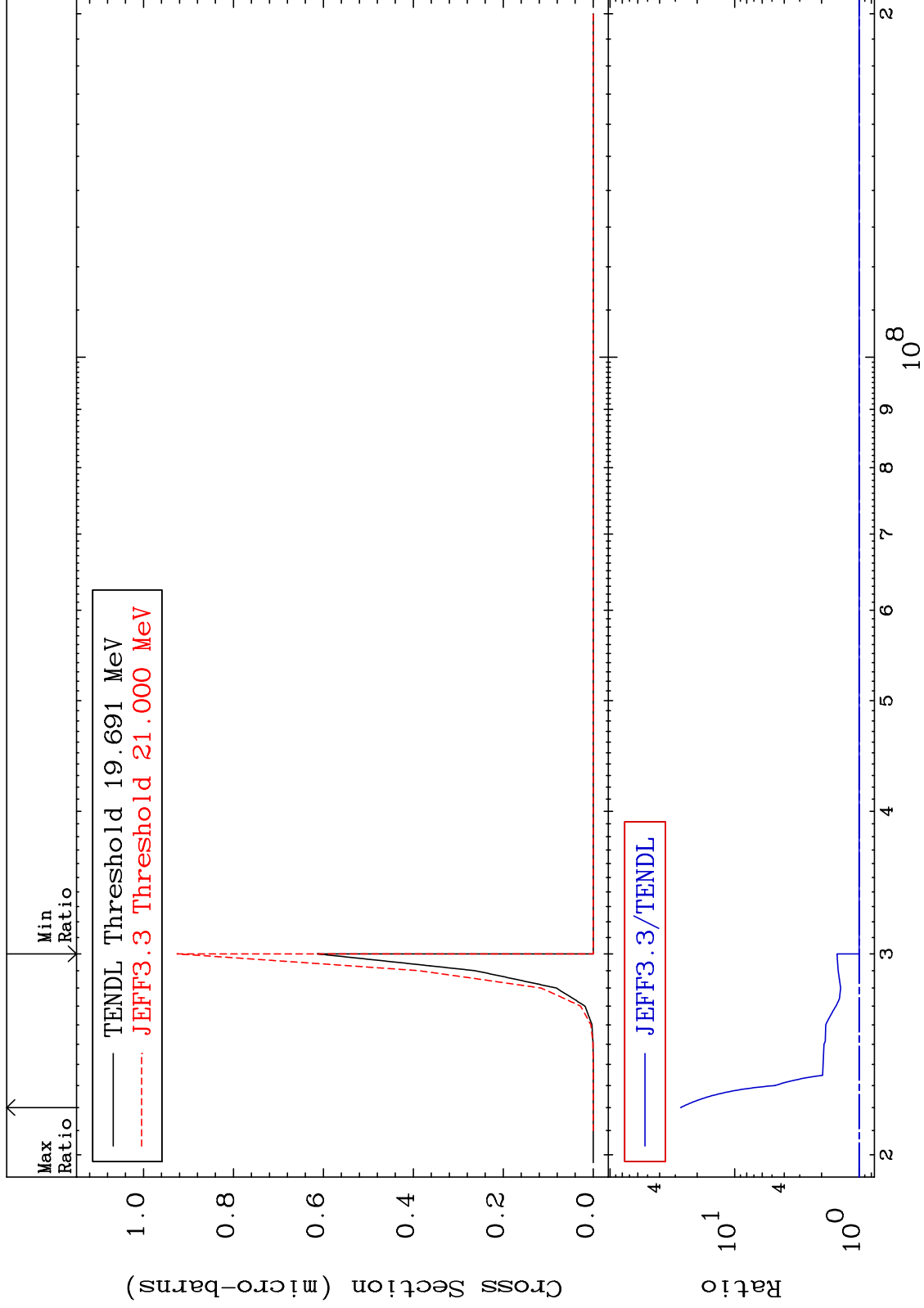


MAT 3440

(n,2n) p:32-Ge-77m1

34-<sup>Se</sup>-79

Radionuclide Production Cross Section 0.000 To 2615. %

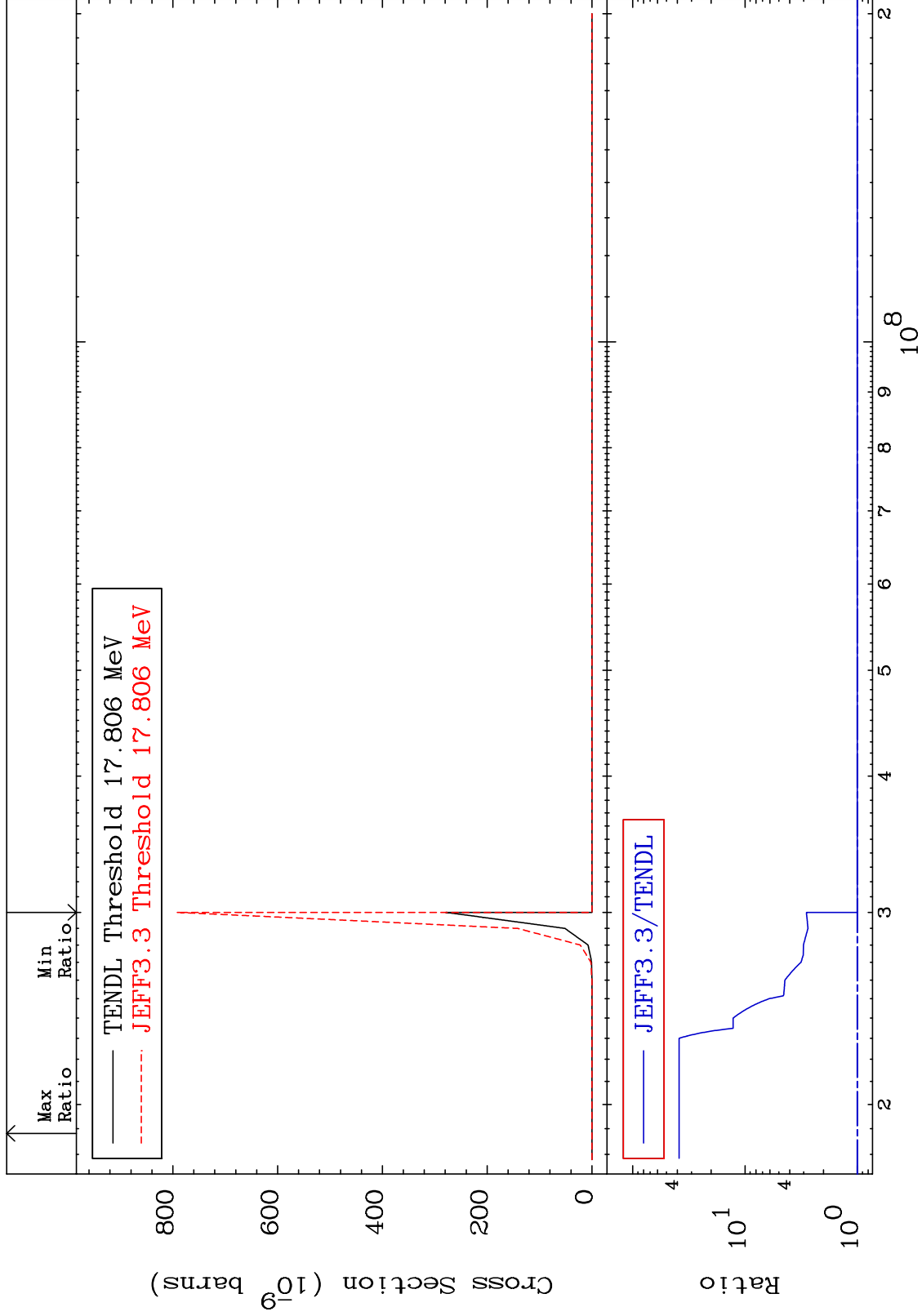


MAT 3440

(n, n') p  $\alpha$ :31-Ga-74g

34-Se-79

Radionuclide Production Cross Section 0.000 To 3759. %



92

Incident Energy (eV)

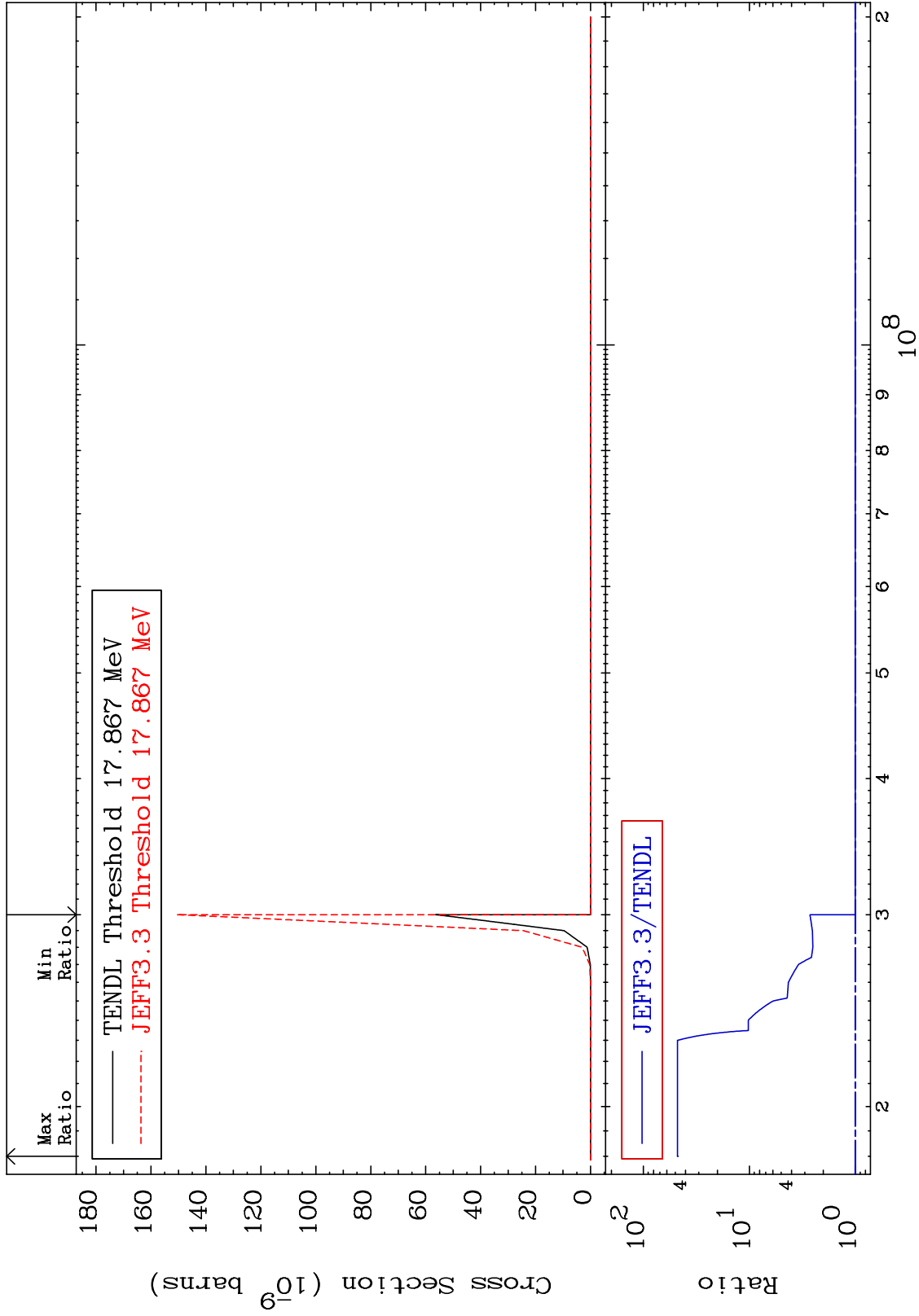
34-Se-79

MAT 3440

(n, n') p  $\alpha$ :31-Ga-74m2

34-Se-79

Radionuclide Production Cross Section 0.000 To 4658. %

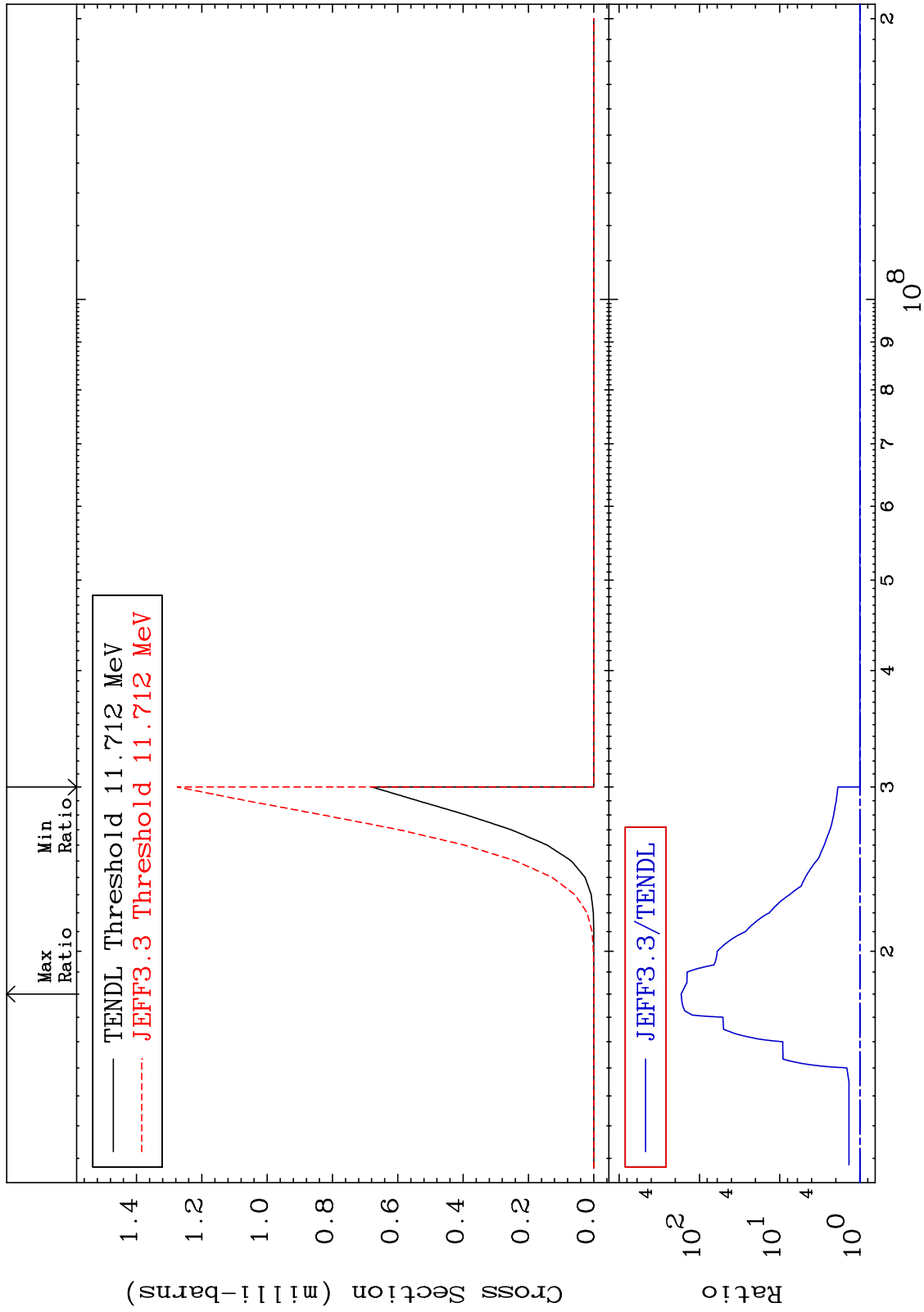


MAT 3440

(n, He-3) : 32-Ge-77g

34-Se-79

Radionuclide Production Cross Section 0.000 To 9999. %

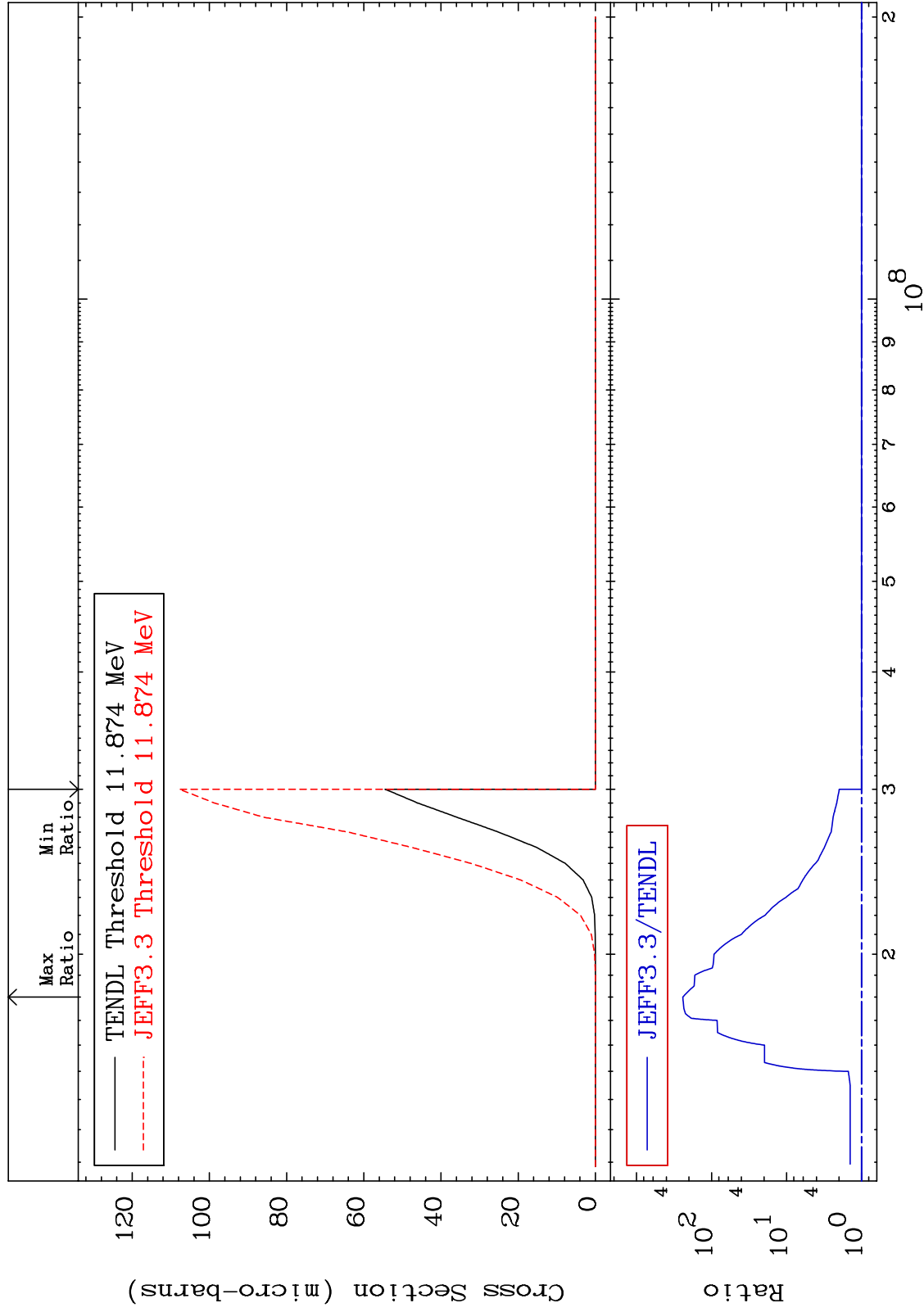


MAT 3440

(n, He-3):32-Ge-77m1

34-Se-79

Radionuclide Production Cross Section 0.000 To 9999. %



95

Incident Energy (eV)

34-Se-79

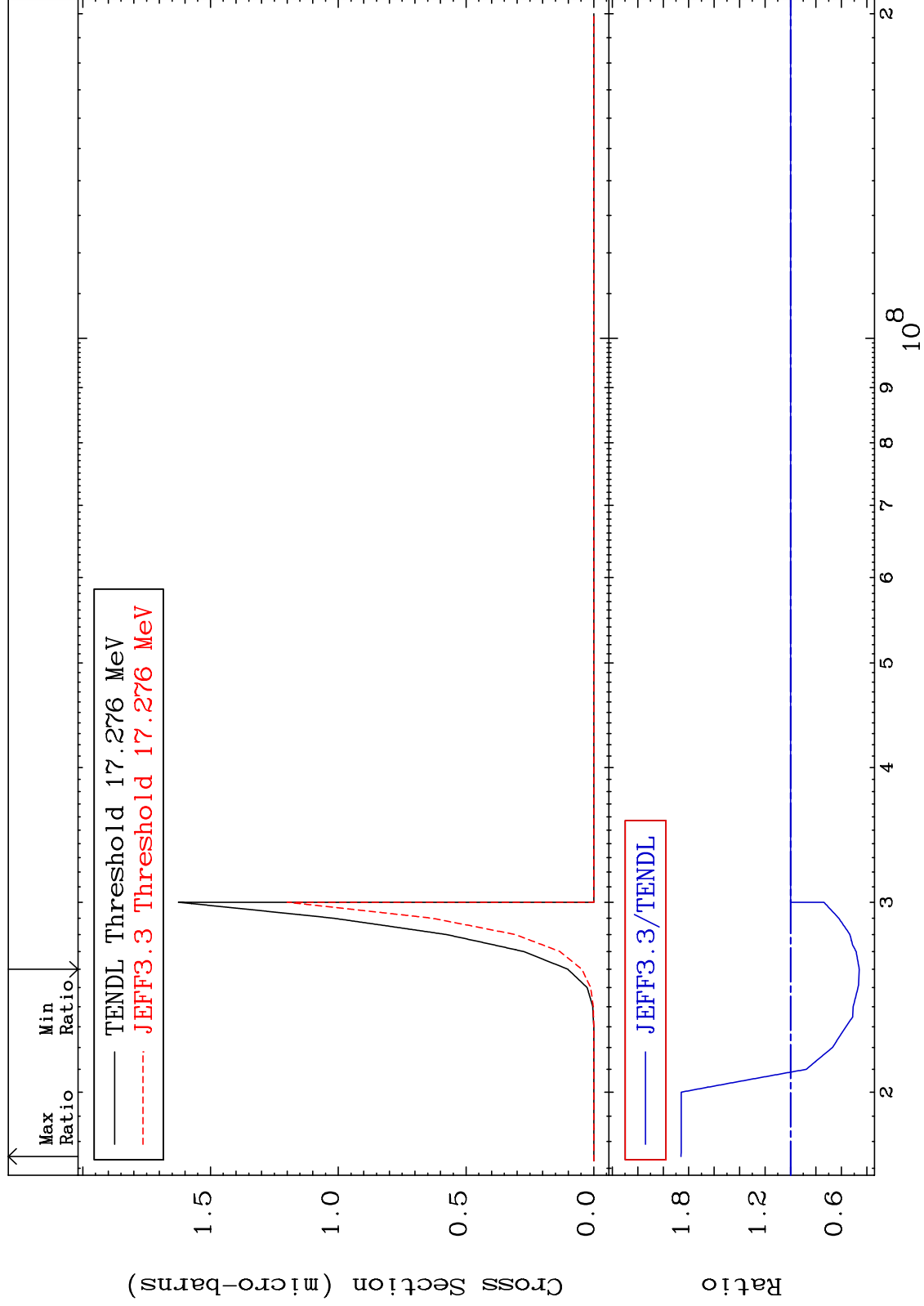


MAT 3440

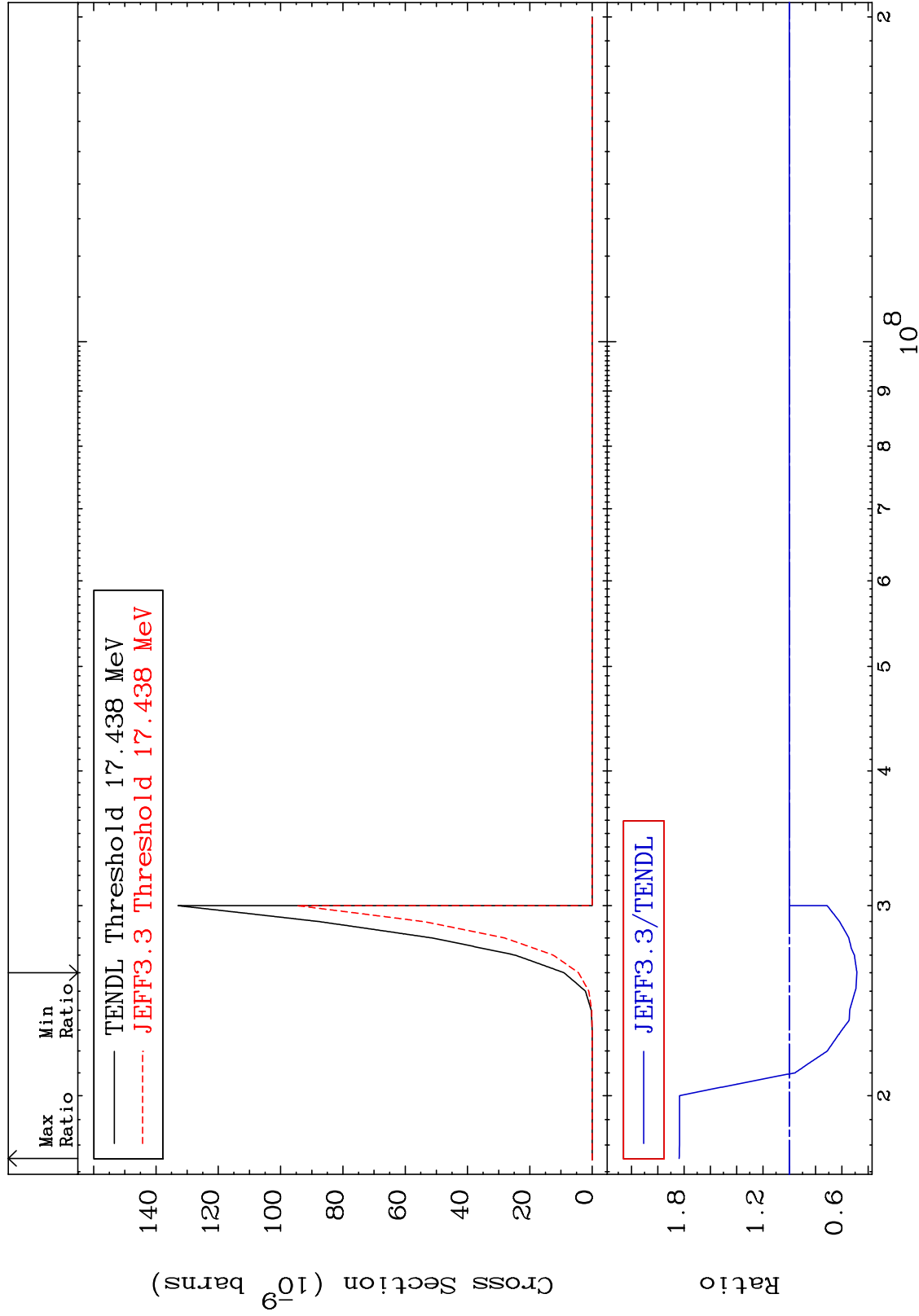
(n, p) d:32-Ge-77g

34-Se-79

Radionuclide Production Cross Section -54.05 To 86.01 %



Radionuclide Production Cross Section -51.42 To 83.70 %

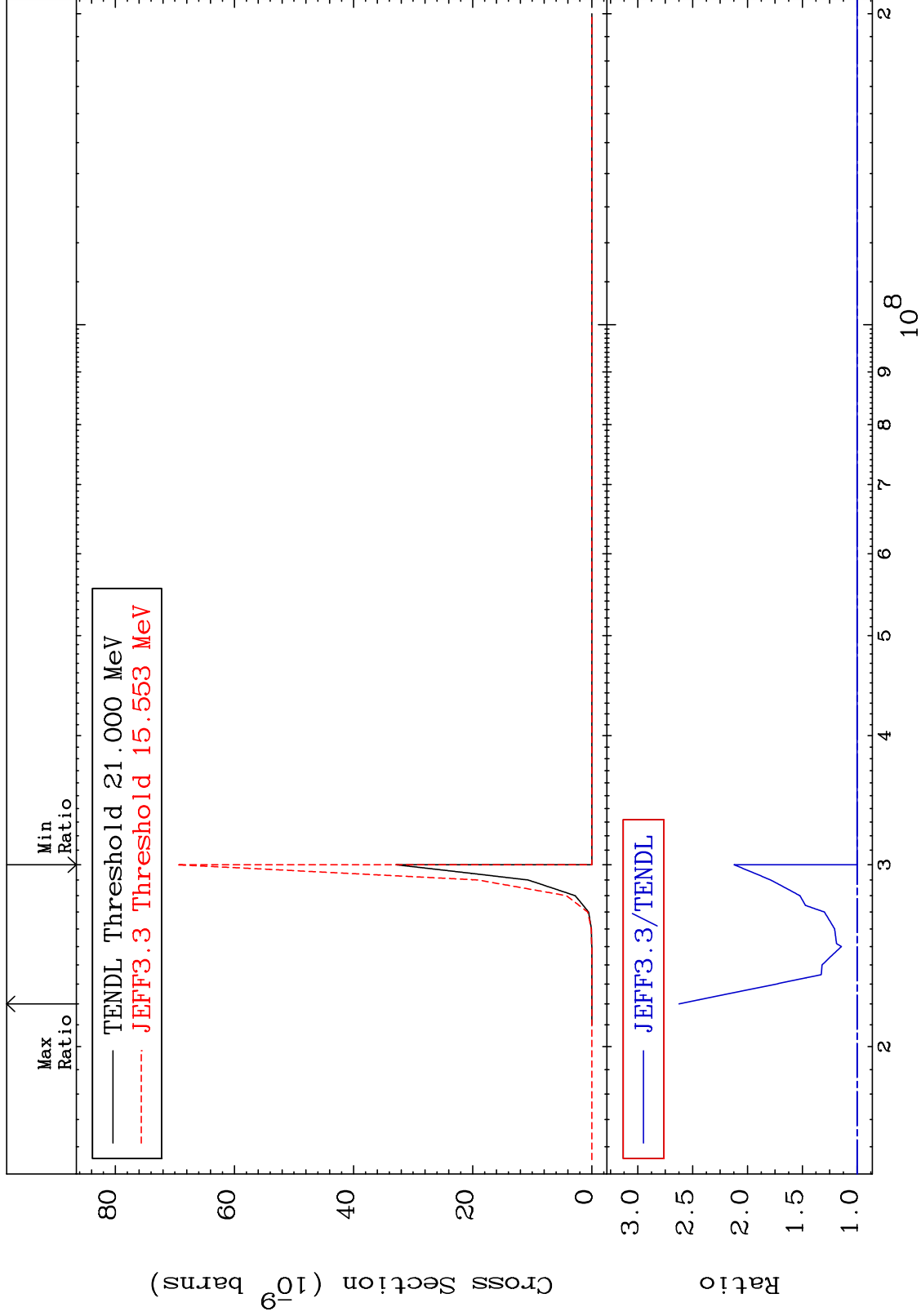


MAT 3440

(n, d)  $\alpha$ :31-Ga-74g

34-Se-79

Radionuclide Production Cross Section 0.000 To 162.5 %



98

Incident Energy (eV)

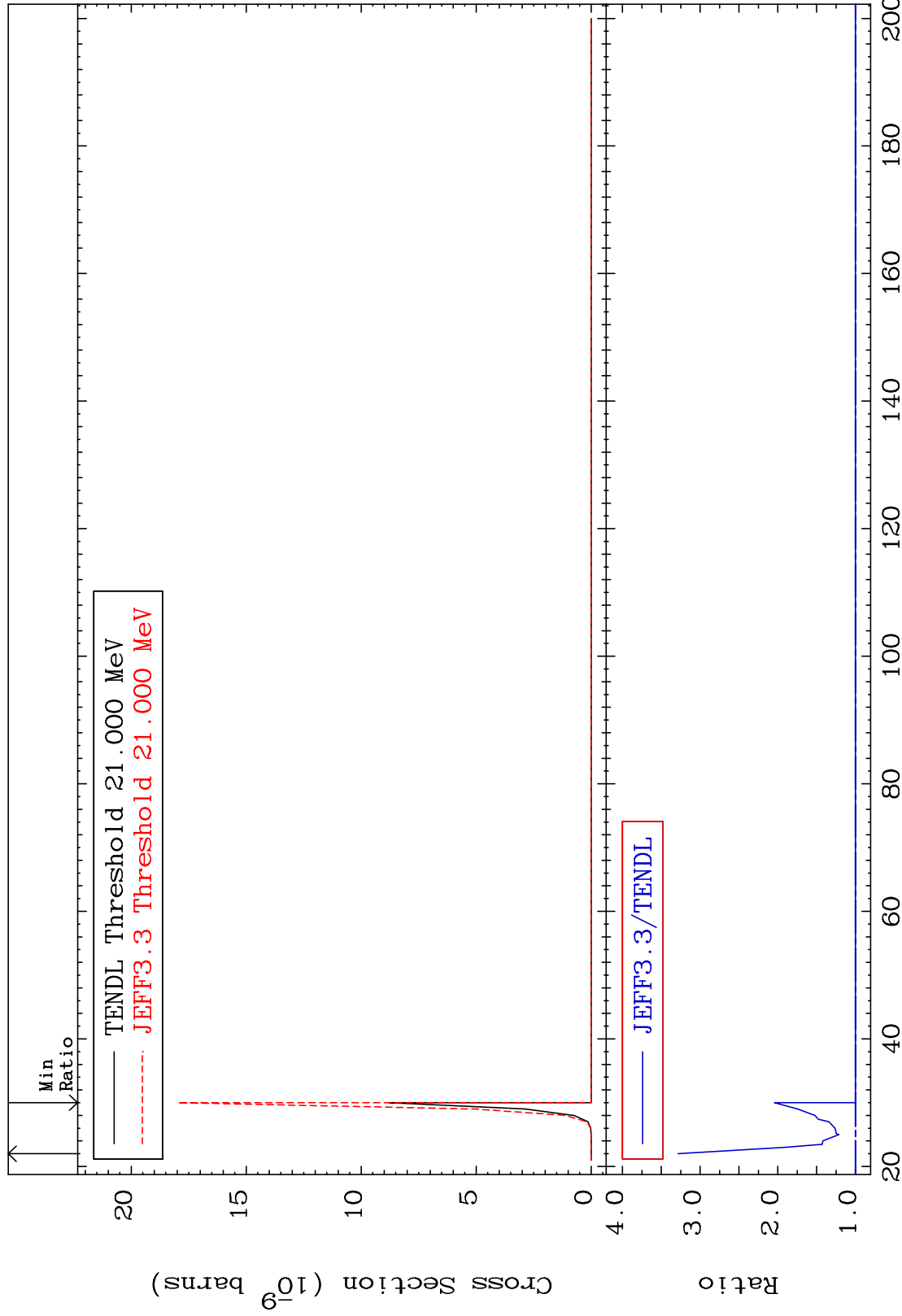
34-Se-79

MAT 3440

(n, d)  $\alpha$ : 31-Ga-74m2

34-Se-79

Radionuclide Production Cross Section 0.000 To 228.5 %



99

Incident Energy (MeV)

34-Se-79