

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

Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

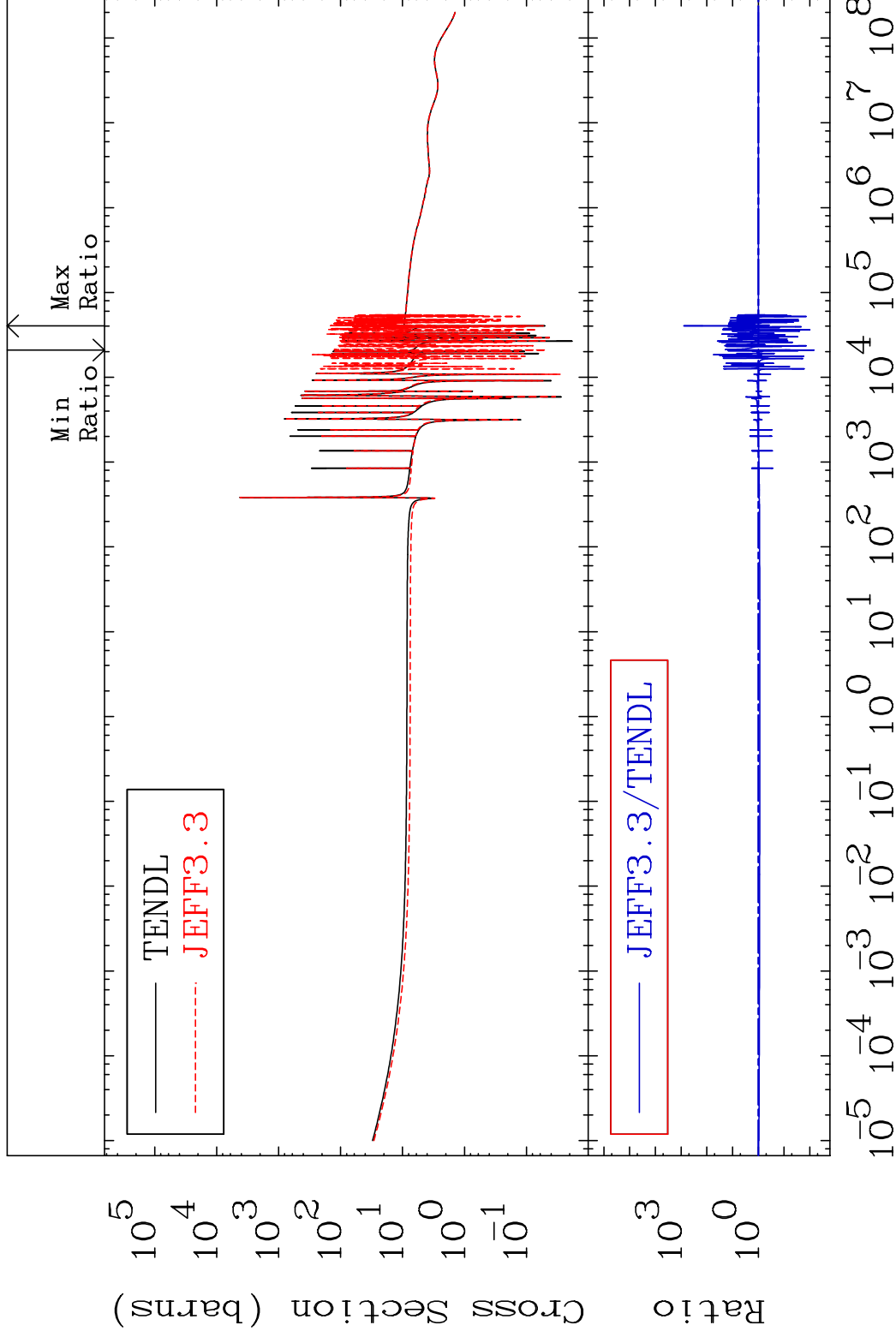
MAT 3437

Total

34-Se-78

Cross Section

-99.32 To 9999. %



1

Incident Energy (eV)

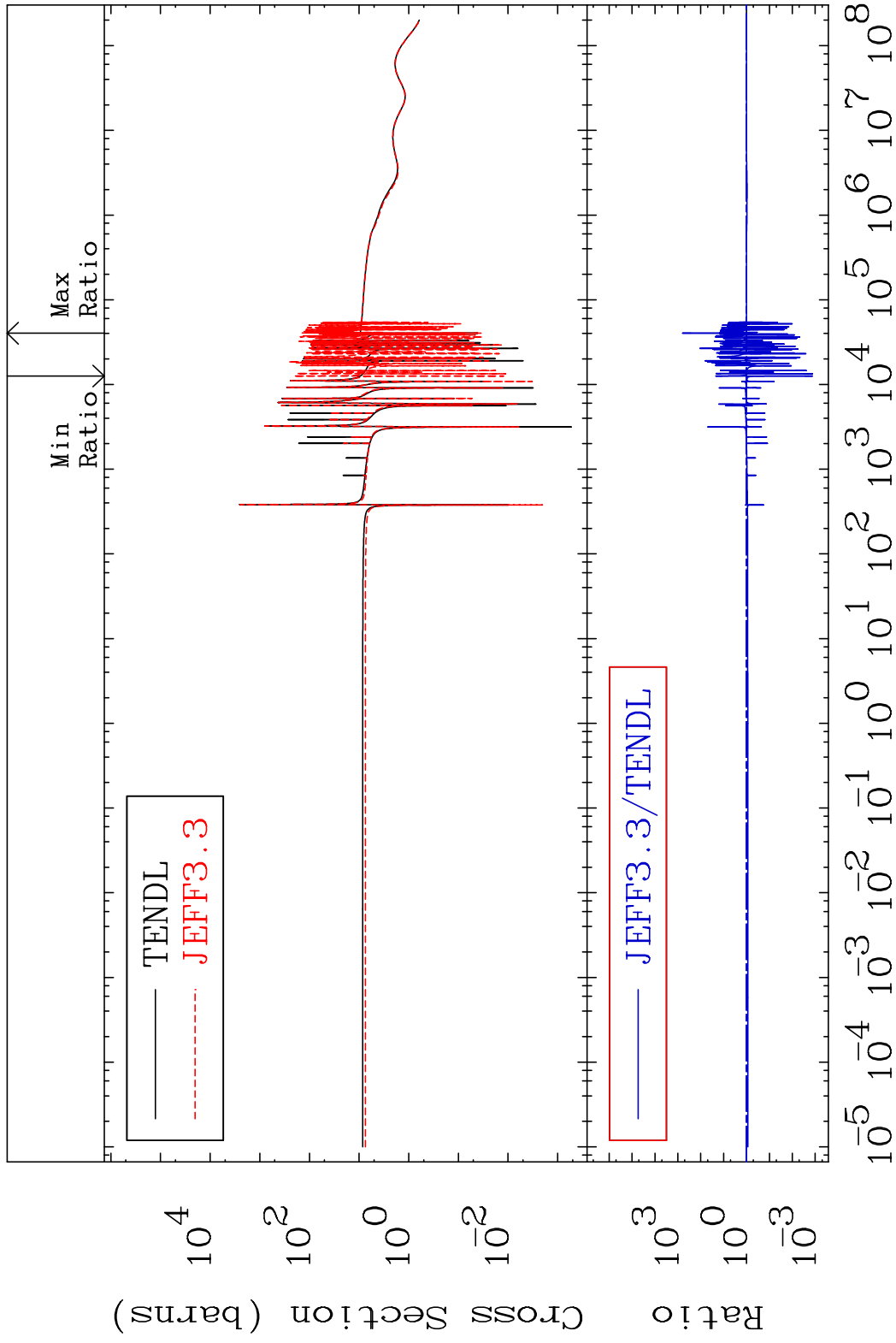
34-Se-78

MAT 3437

Elastic

34-Se-78

Cross Section -99.87 To 9999. %



2

Incident Energy (eV)

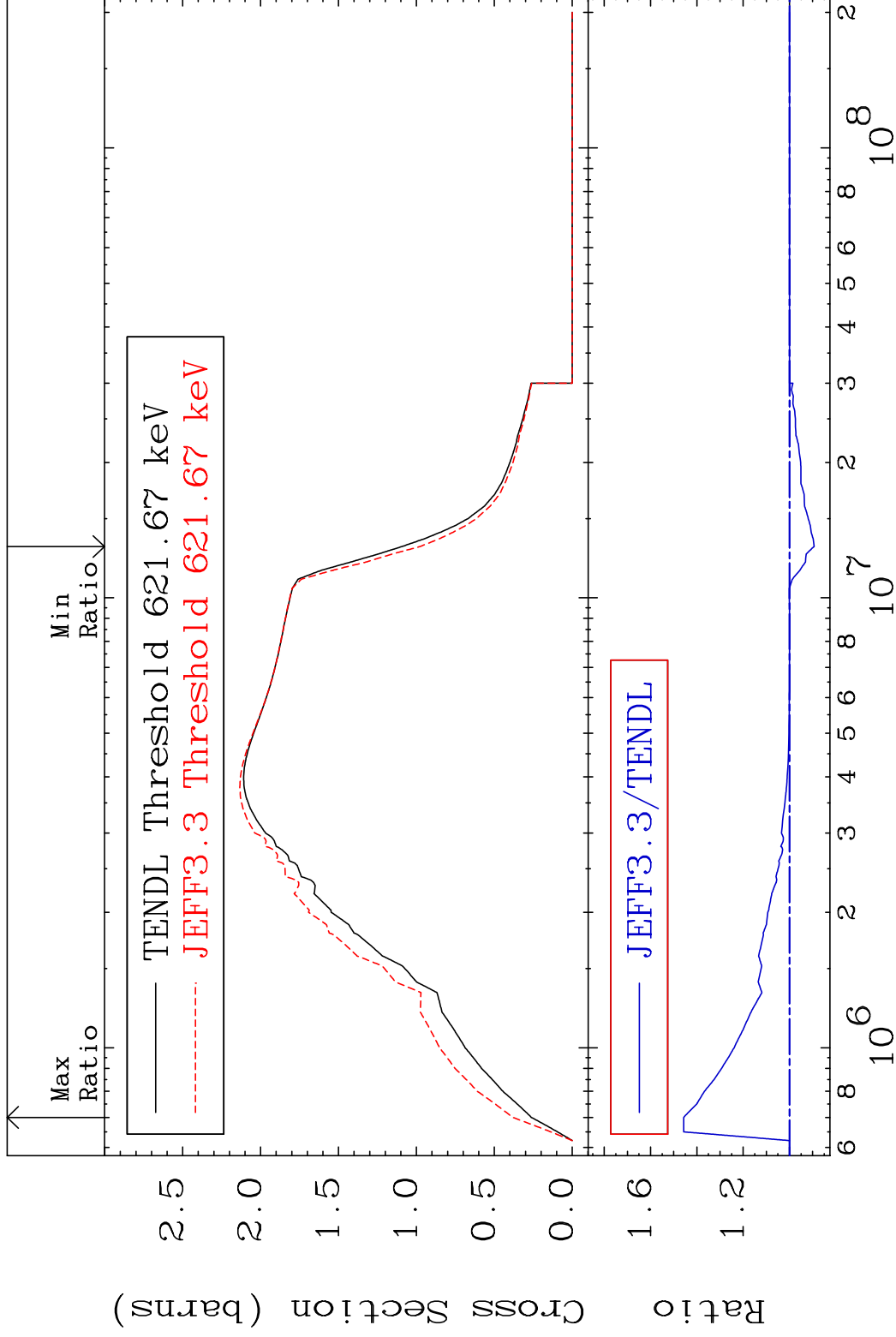
34-Se-78

MAT 3437

Inelastic

<sup>34</sup>Se-78

Cross Section -10.63 To 45.71 %



3

Incident Energy (eV)

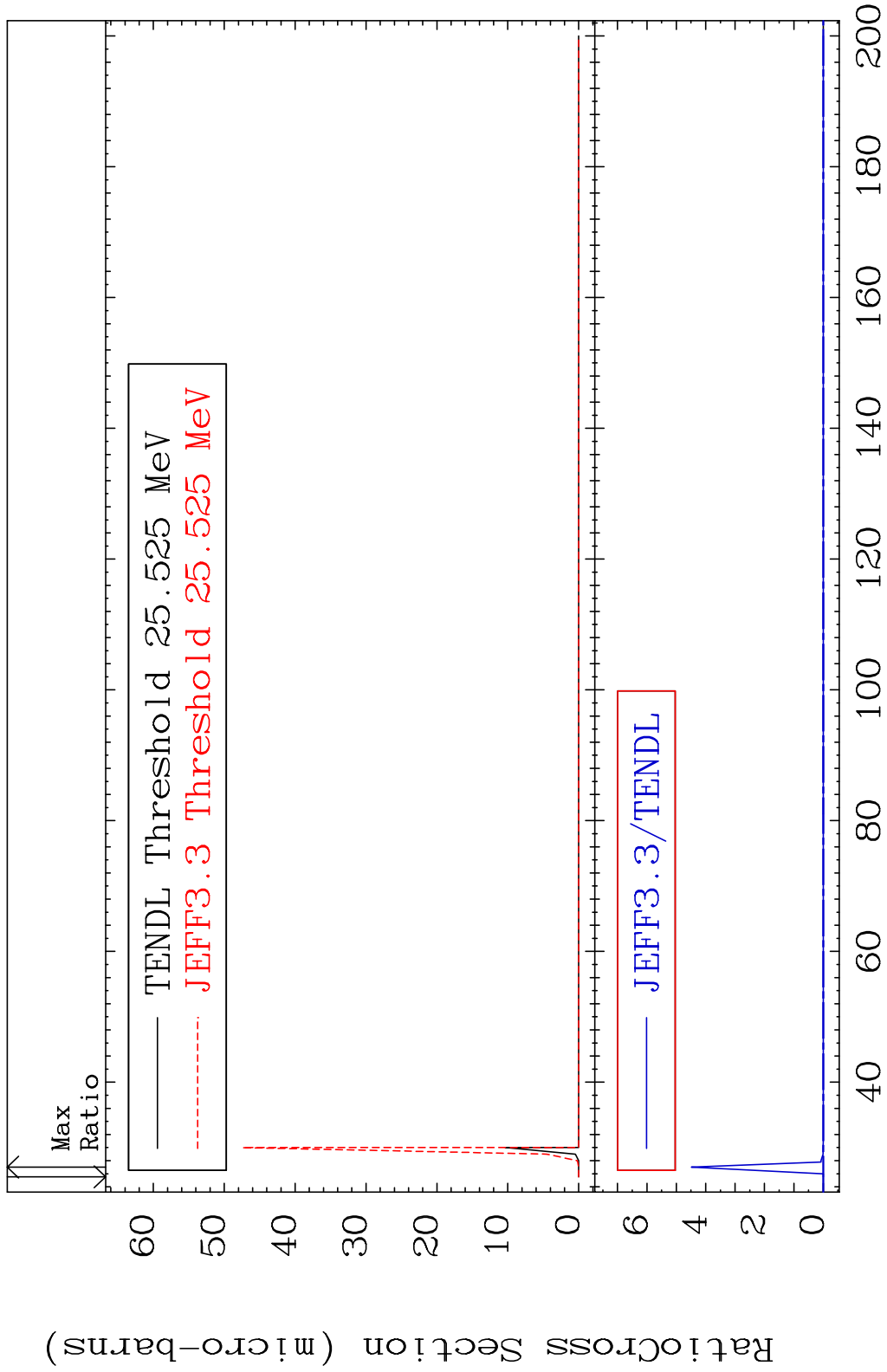
<sup>34</sup>Se-78

MAT 3437

(n,2n) d

34-Se-78

Cross Section -100.0 To 9999. %

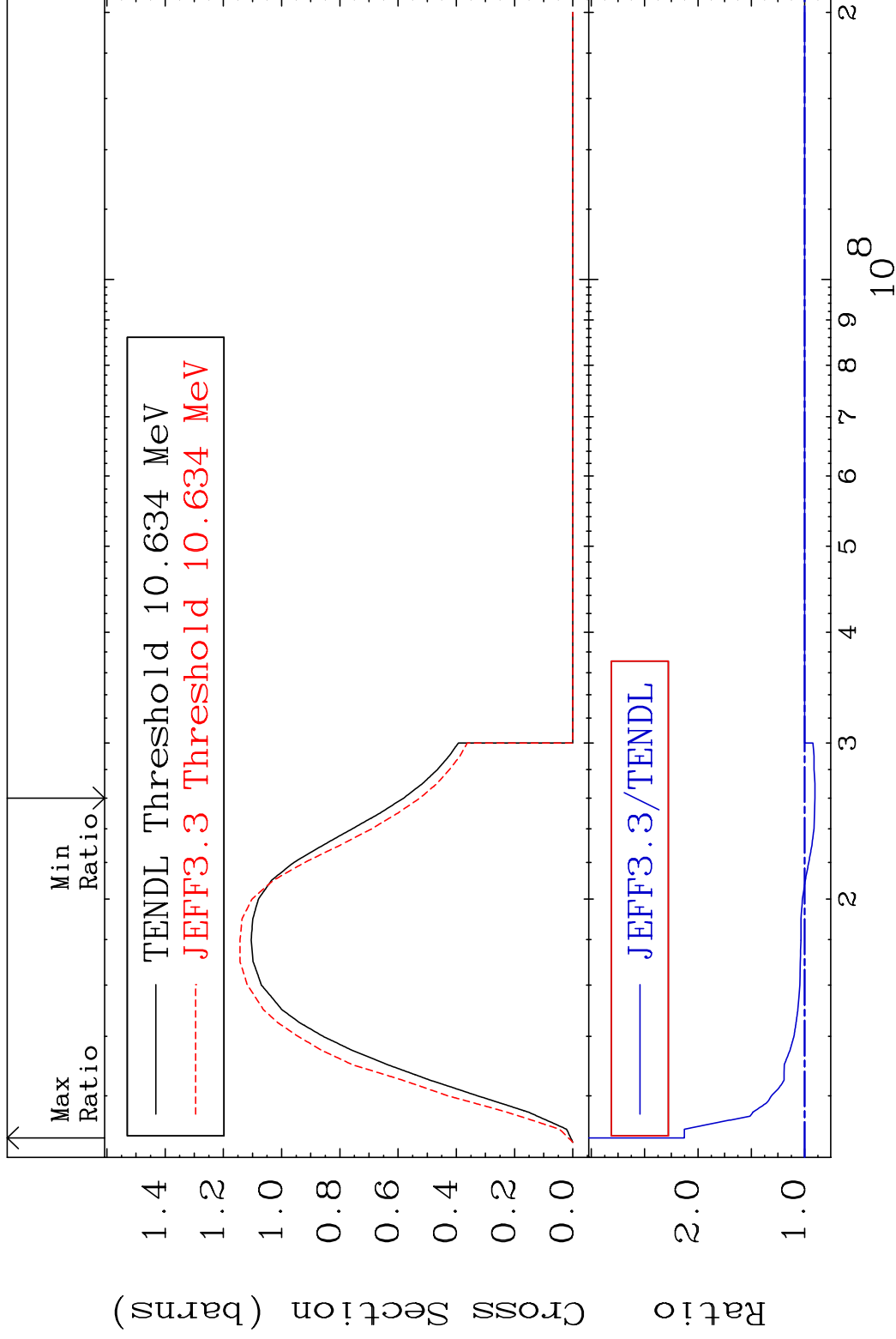


MAT 3437

(n,2n)

34-Se-78

Cross Section -9.626 To 112.8 %



5

Incident Energy (eV)

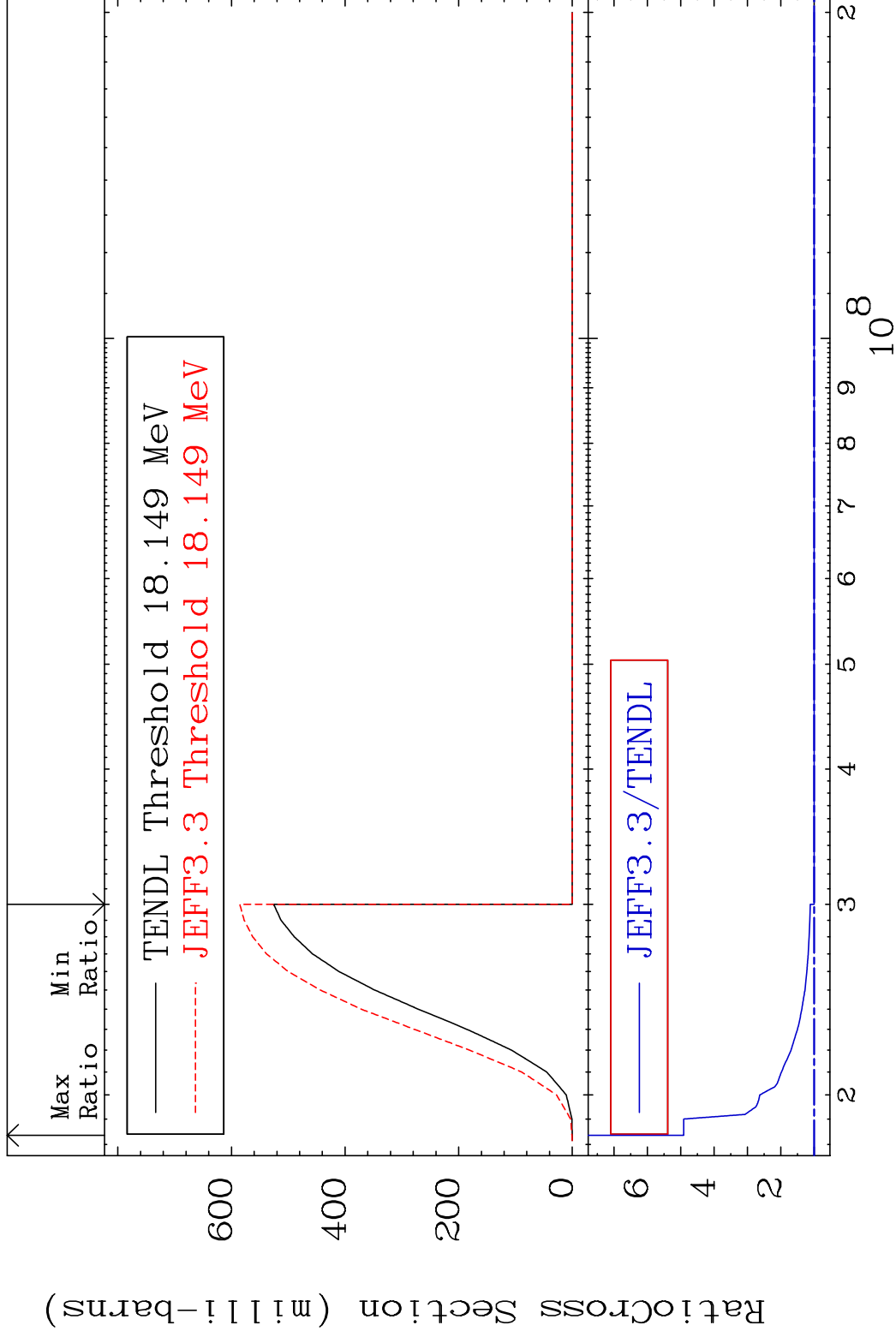
34-Se-78

MAT 3437

(n,3n)

<sup>34</sup>Se-78

Cross Section 0.000 To 391.1 %



6

Incident Energy (eV)

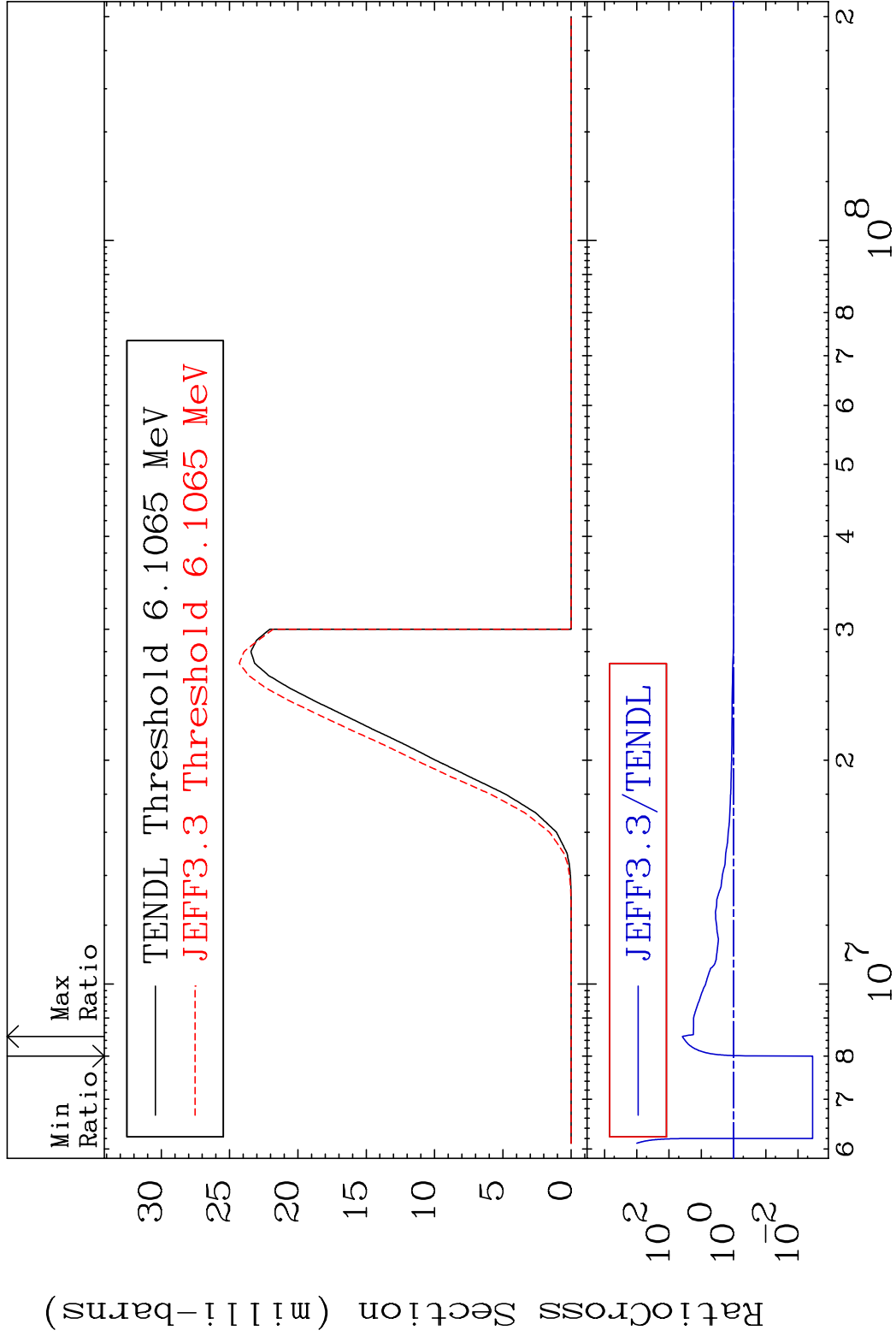
<sup>34</sup>Se-78

MAT 3437

(n, n')  $\alpha$

34-Se-78

Cross Section -99.65 To 3761. %



7

Incident Energy (eV)

34-Se-78

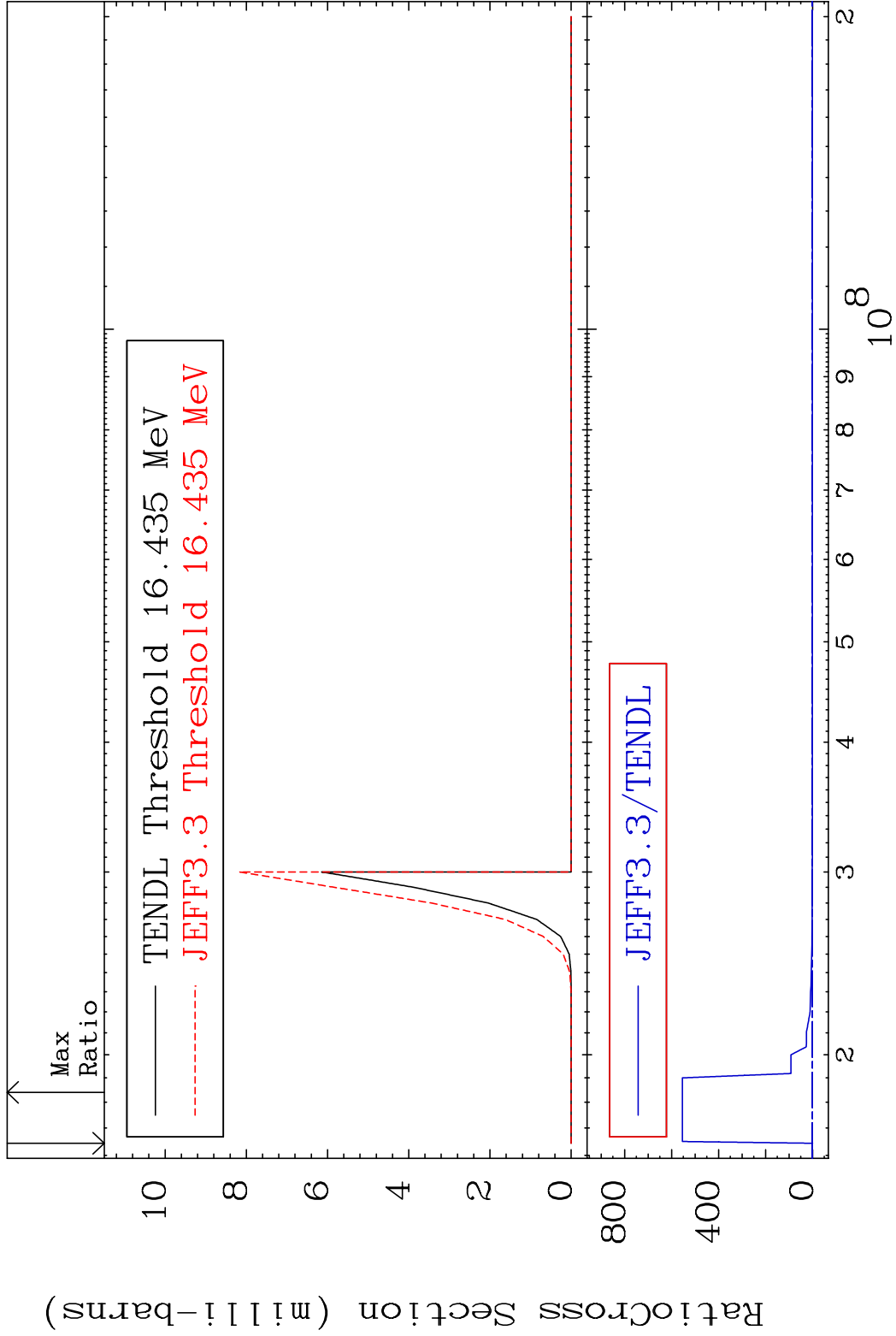


MAT 3437

(n,2n)  $\alpha$

34-Se-78

Cross Section -100.0 To 9999. %



8

Incident Energy (eV)

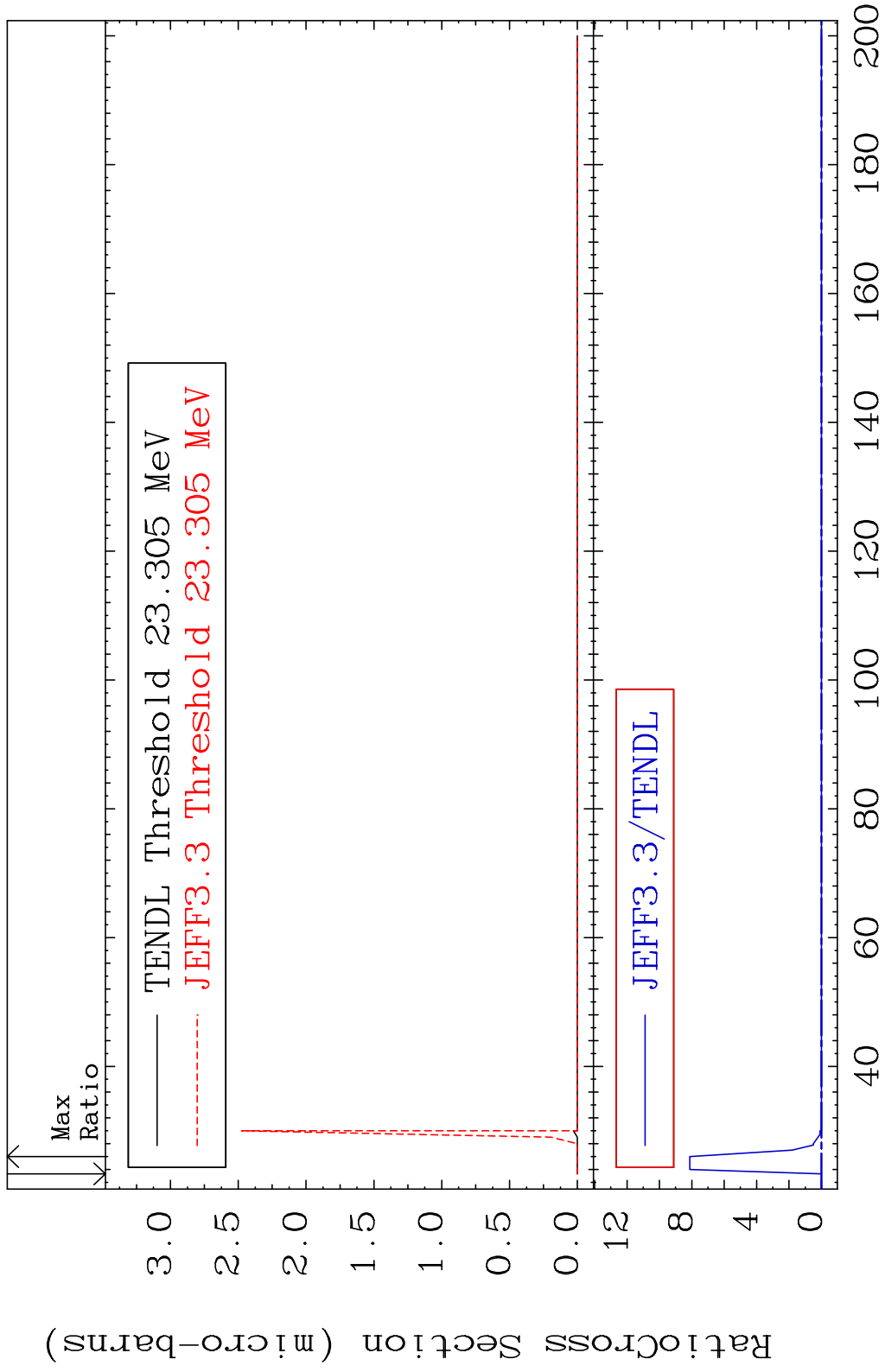
34-Se-78

MAT 3437

(n,3n)  $\alpha$

34-Se-78

Cross Section -100.0 To 9999. %

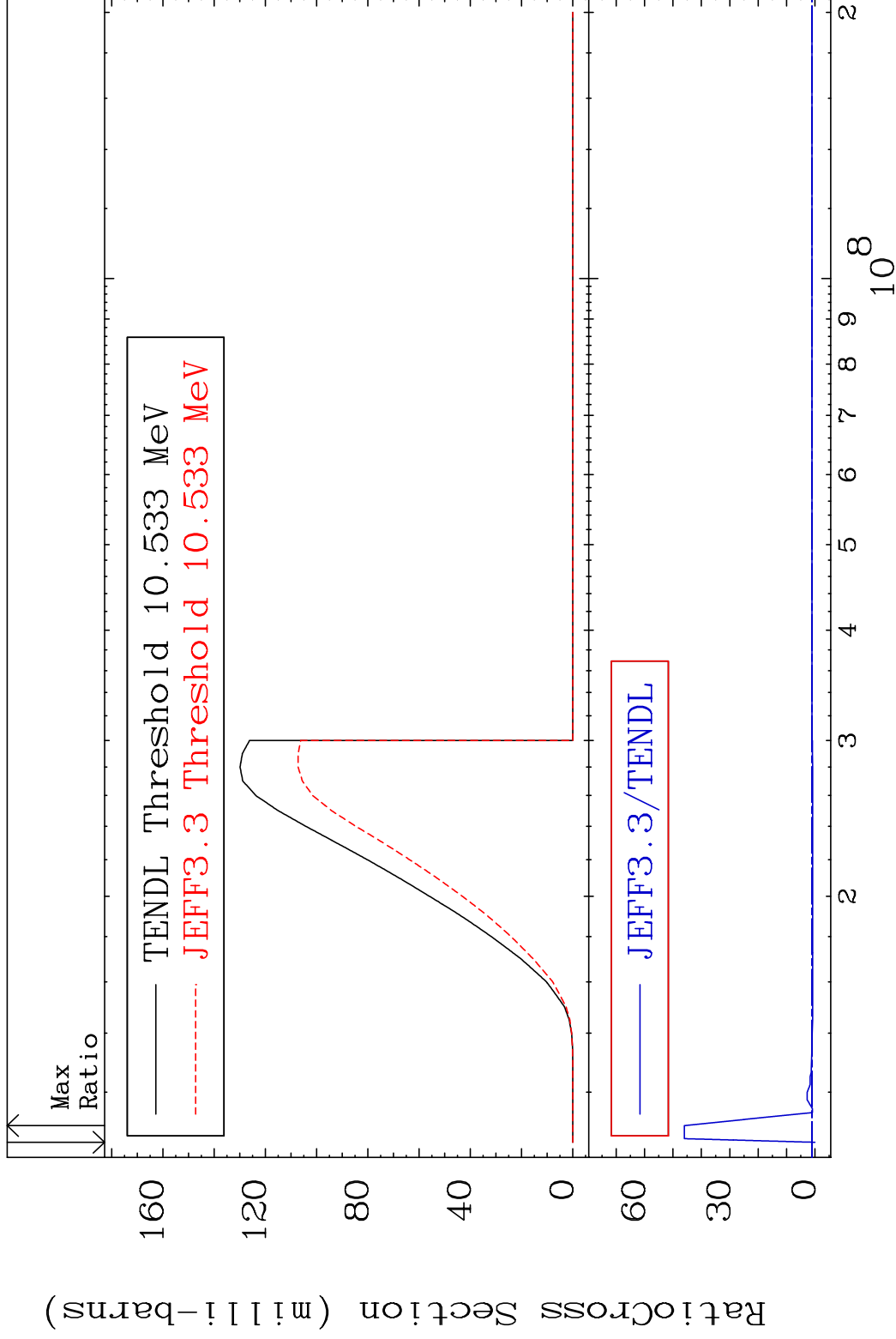


MAT 3437

(n, n') p

<sup>34</sup>Se-78

Cross Section -100.0 To 4501. %

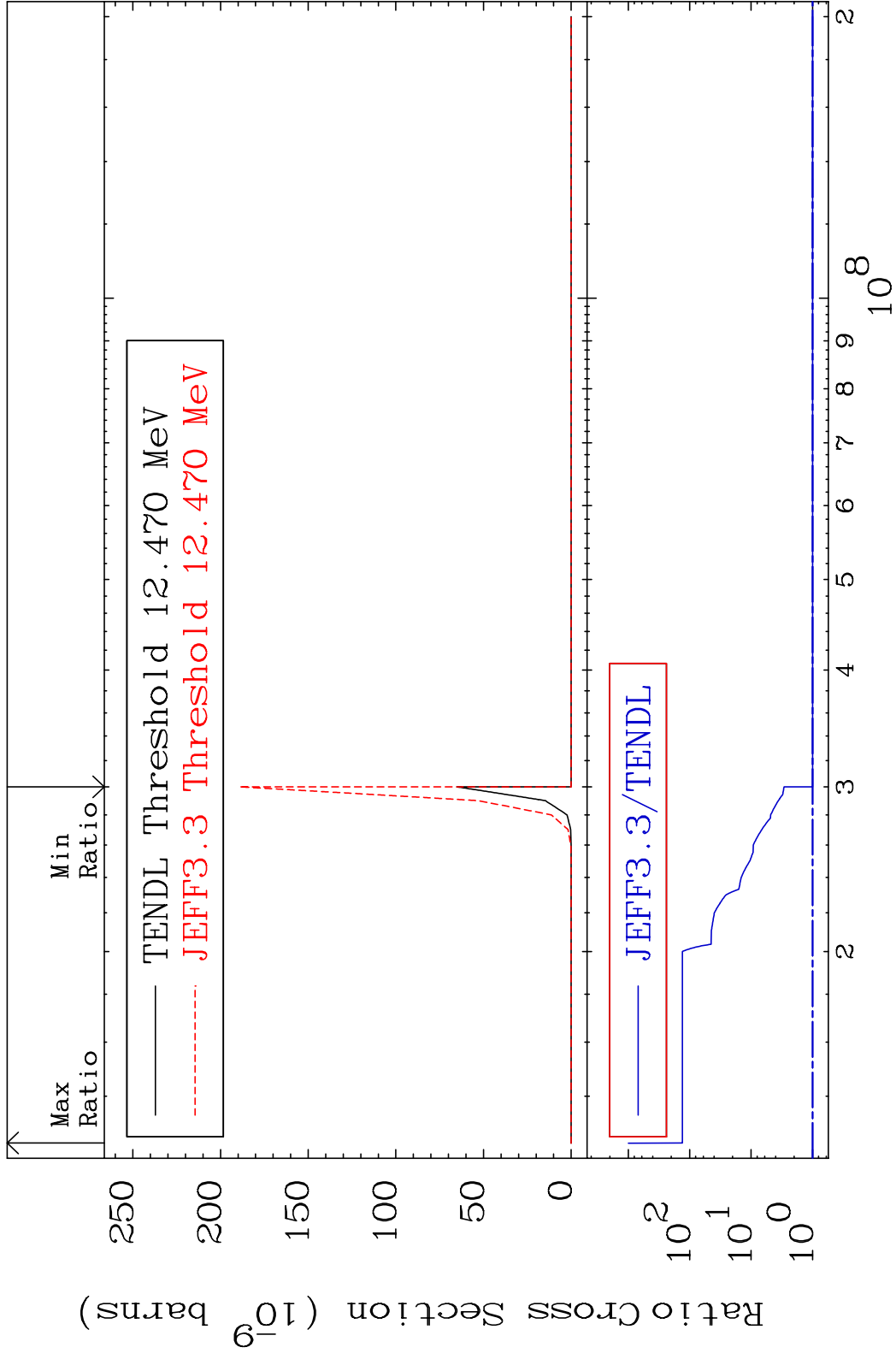


10

Incident Energy (eV)

<sup>34</sup>Se-78

MAT 3437 (n, n') 2α 34-Se-78  
 Cross Section 0.000 To 9999. %

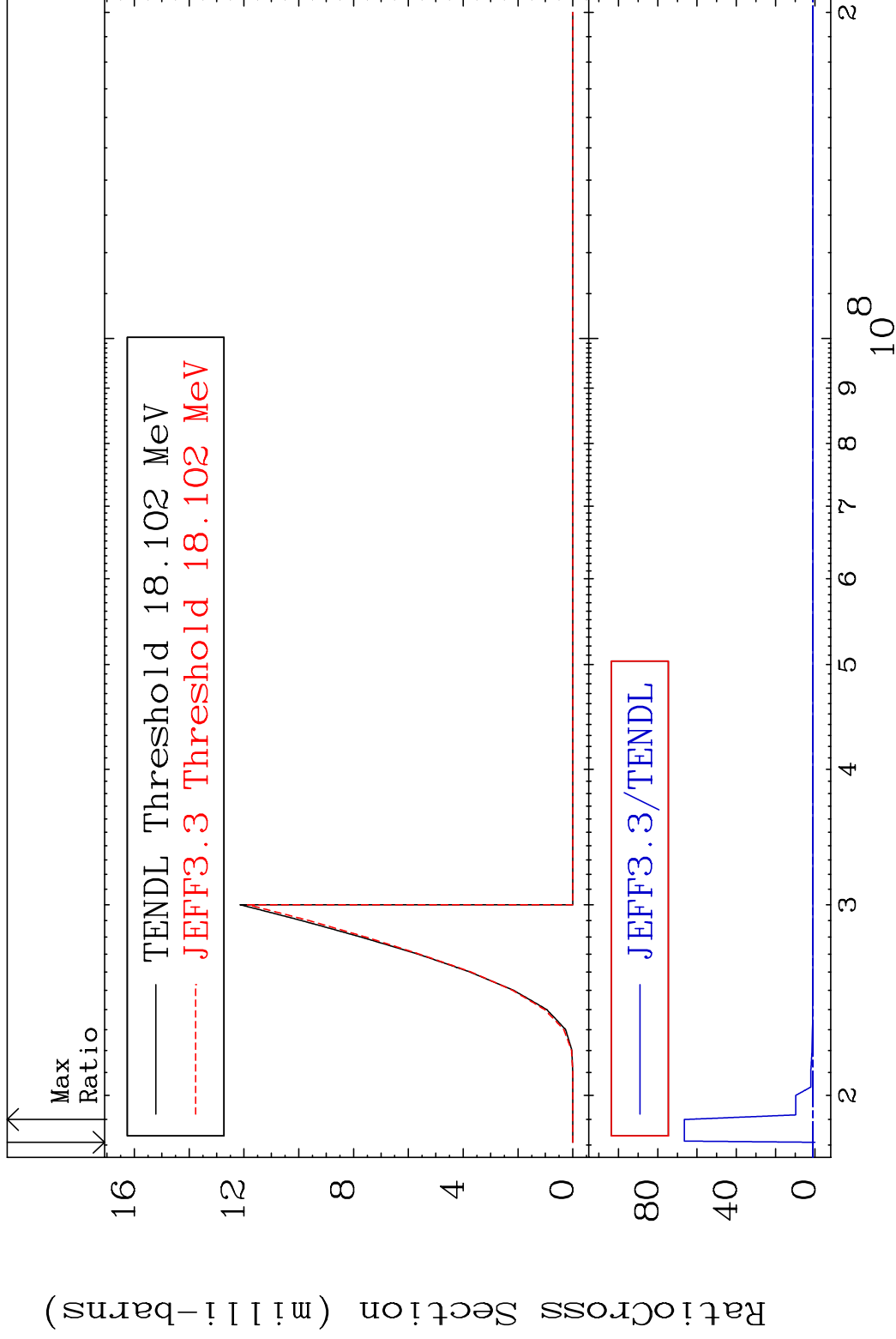


MAT 3437

(n, n') d

34-Se-78

Cross Section -100.0 To 6547. %



12

Incident Energy (eV)

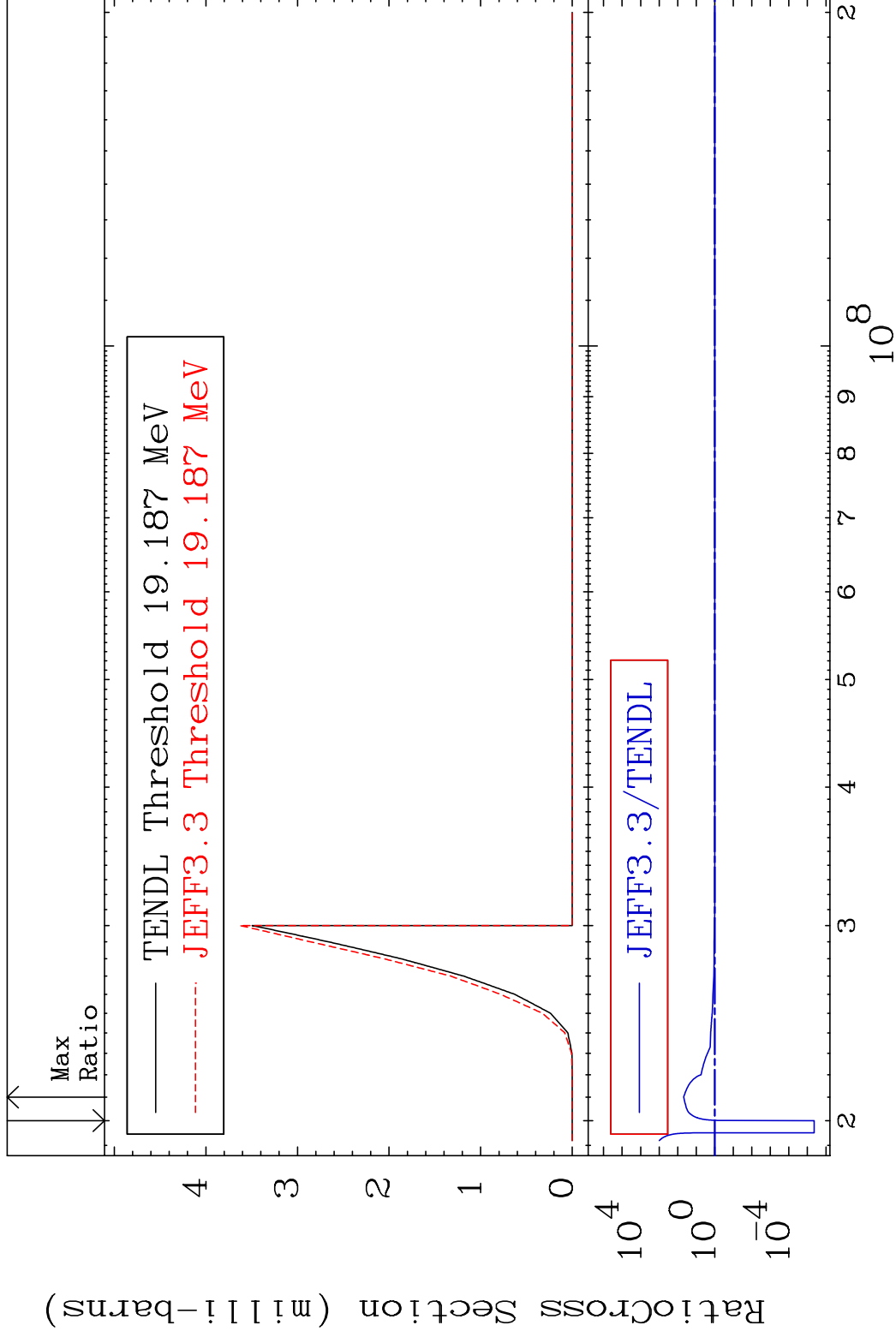
34-Se-78

MAT 3437

(n, n') t

<sup>34</sup>Se-78

Cross Section -100.0 To 4670. %



13

Incident Energy (eV)

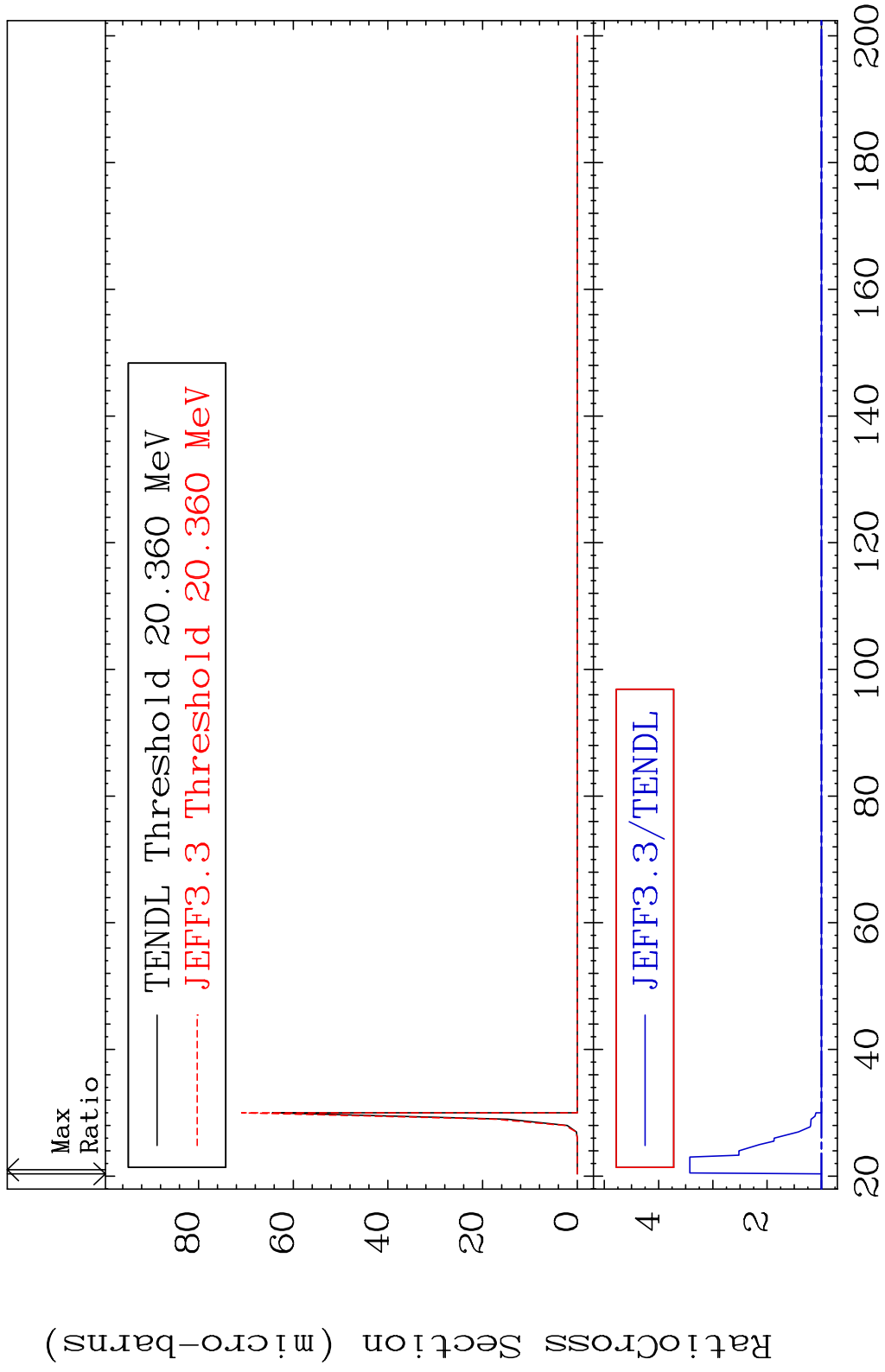
<sup>34</sup>Se-78

MAT 3437

(n,n') He-3

34-Se-78

Cross Section 0.000 To 242.5 %



14

Incident Energy (MeV)

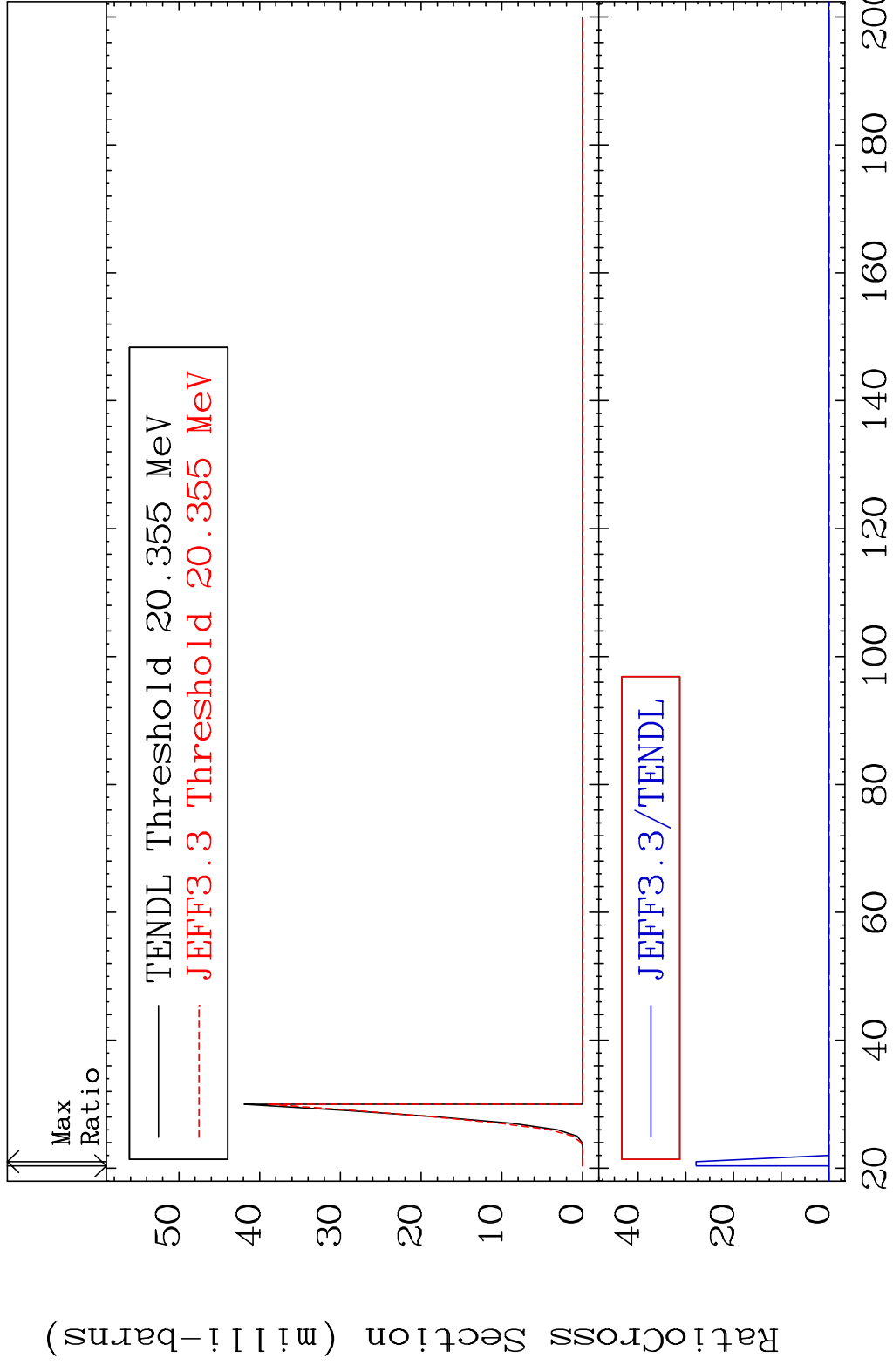
34-Se-78

MAT 3437

(n,2n) p

34-Se-78

Cross Section -100.0 To 9999. %



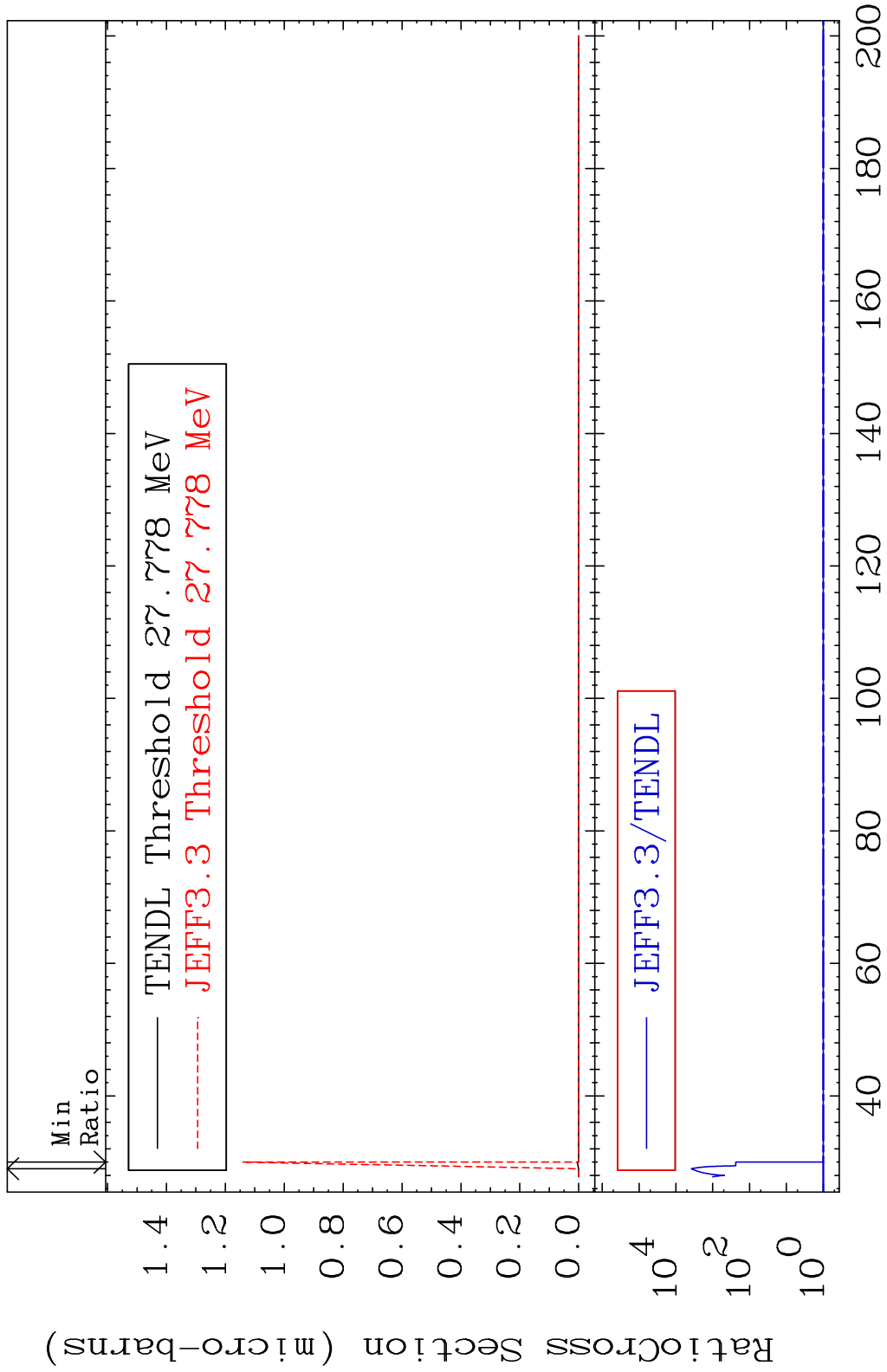


MAT 3437

(n,3n) p

34-Se-78

Cross Section 0.000 To 9999. %

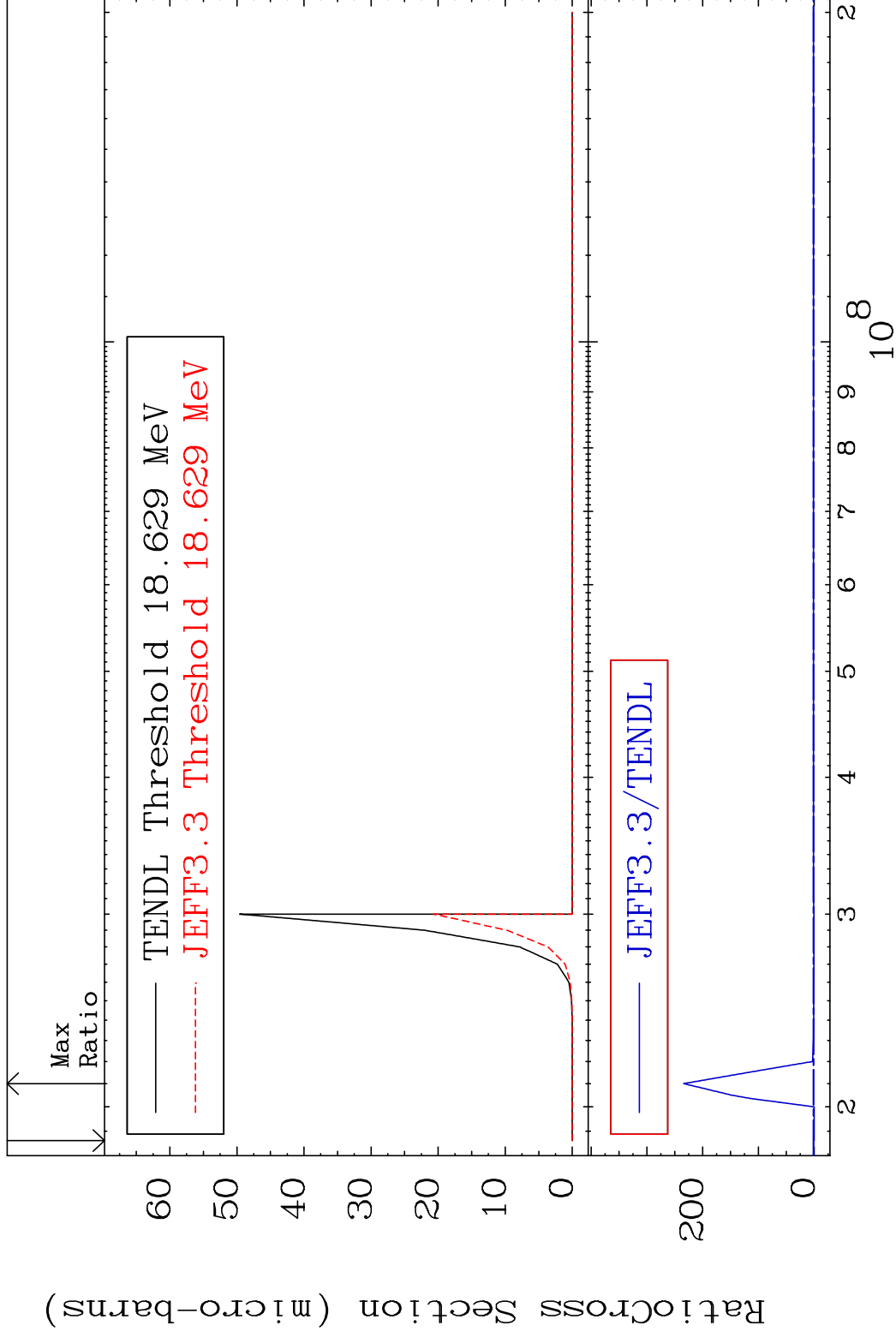


MAT 3437

(n,2n) p

<sup>34</sup>Se-78

Cross Section -100.0 To 9999. %



17

Incident Energy (eV)

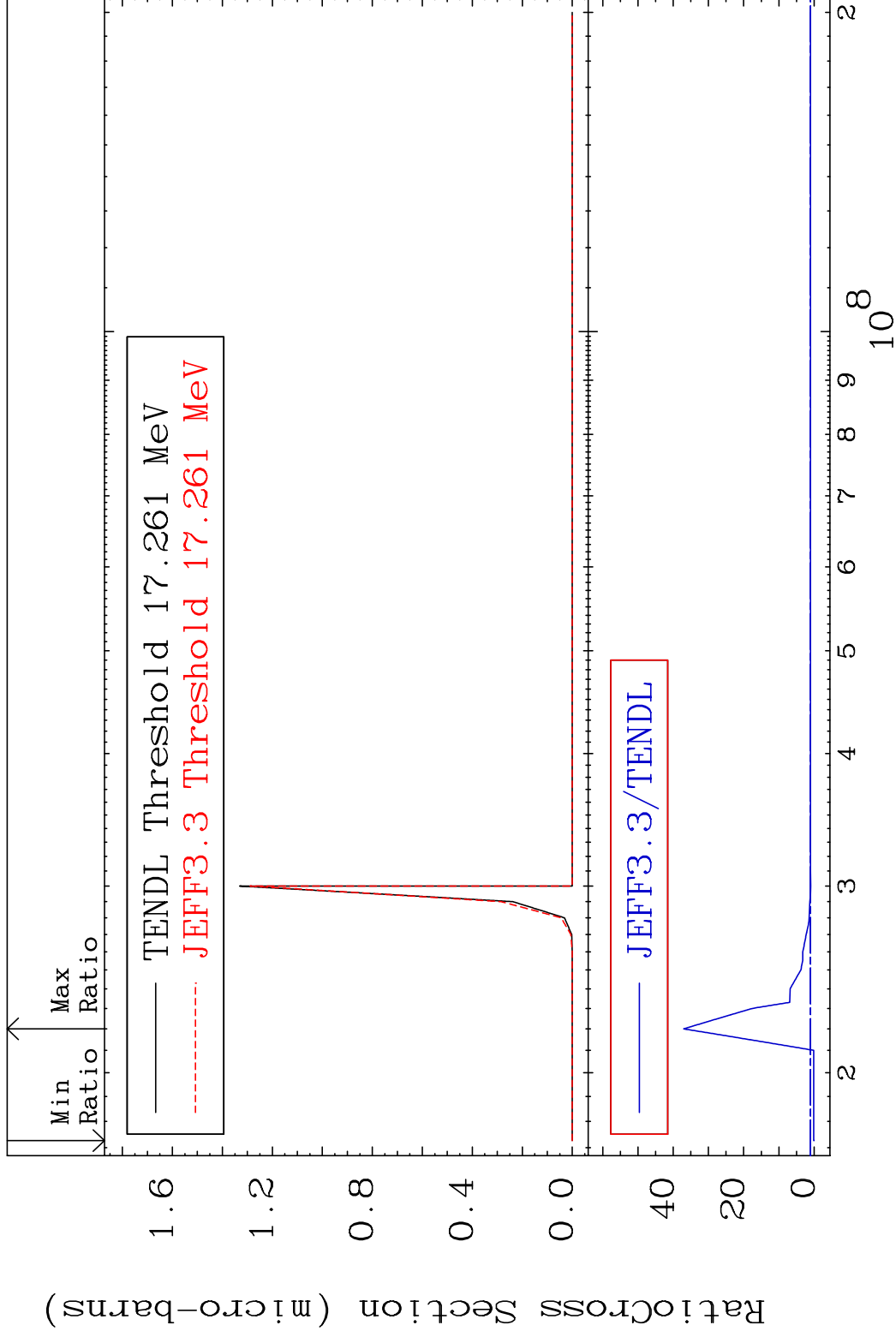
<sup>34</sup>Se-78

MAT 3437

(n,n') p  $\alpha$

34-Se-78

Cross Section -100.0 To 3603. %

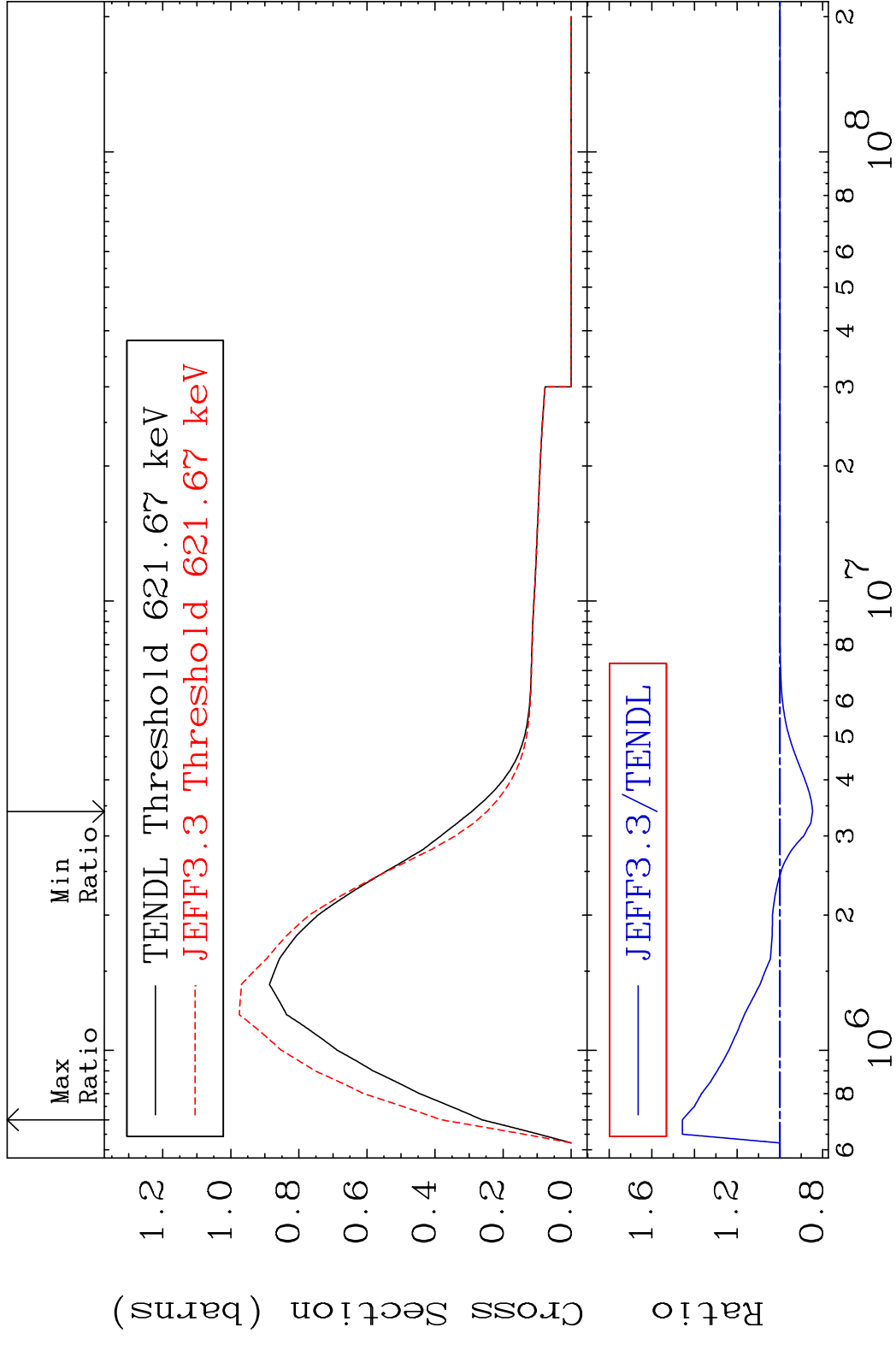


18

Incident Energy (eV)

34-Se-78

MAT 3437 MT= 51 (n,n') Level 34-Se-78  
 Cross Section -15.31 To 45.71 %

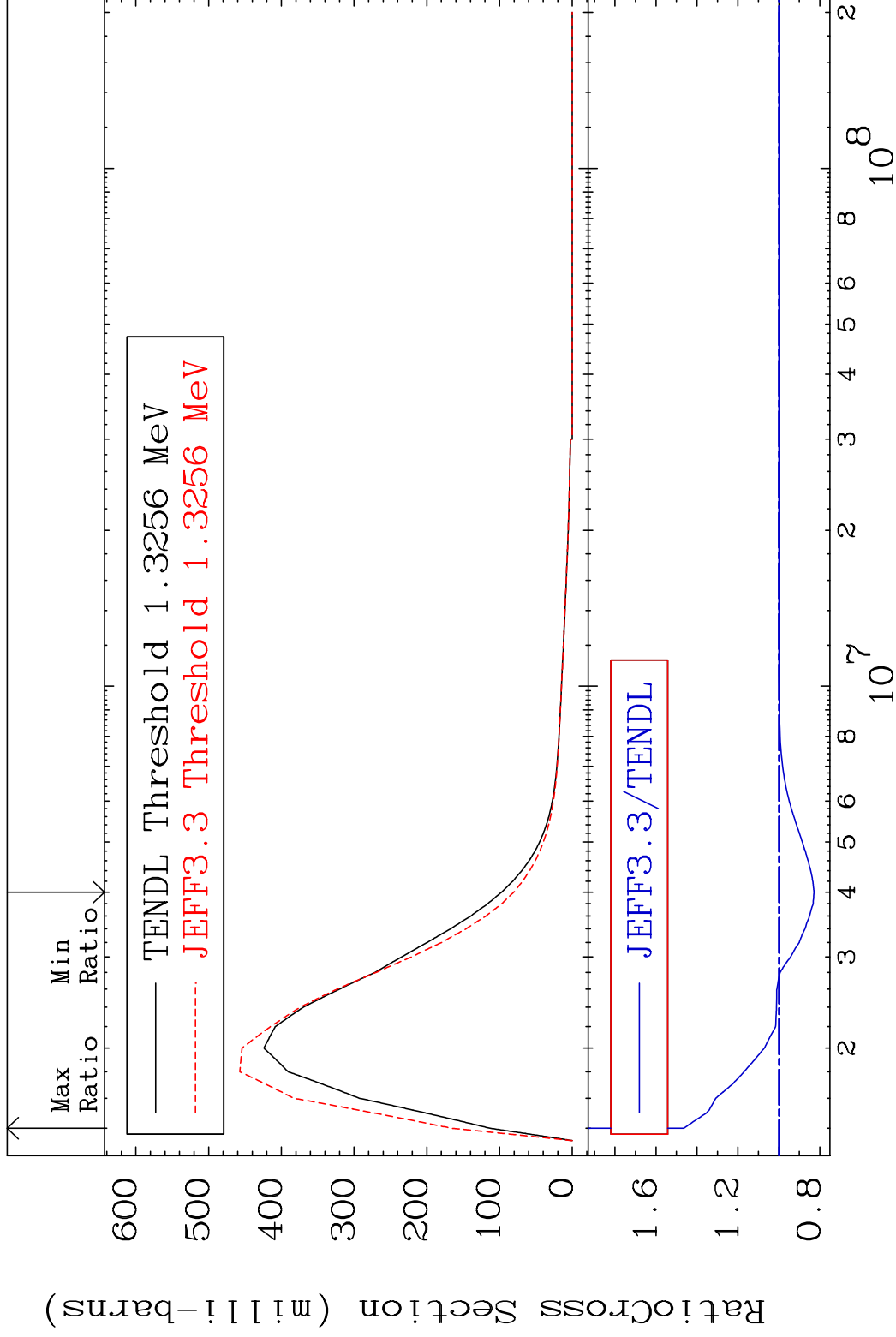


MAT 3437

MT= 52 (n,n') Level

34-Se-78

Cross Section -17.17 To 46.49 %

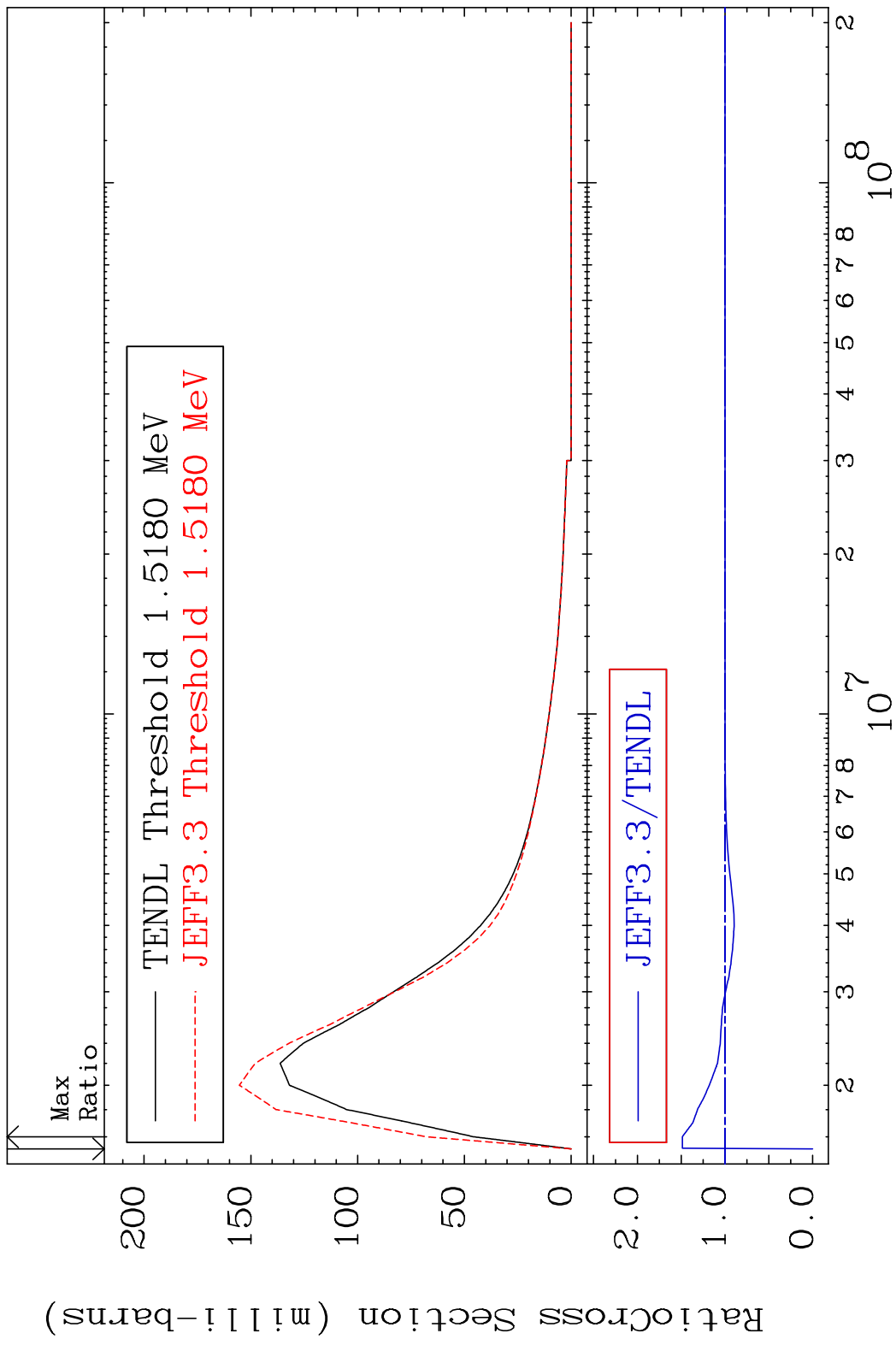


20

Incident Energy (eV)

34-Se-78

MAT 3437      MT= 53 (n, n') Level      34-Se-78  
 Cross Section    -100.0 To 48.64 %

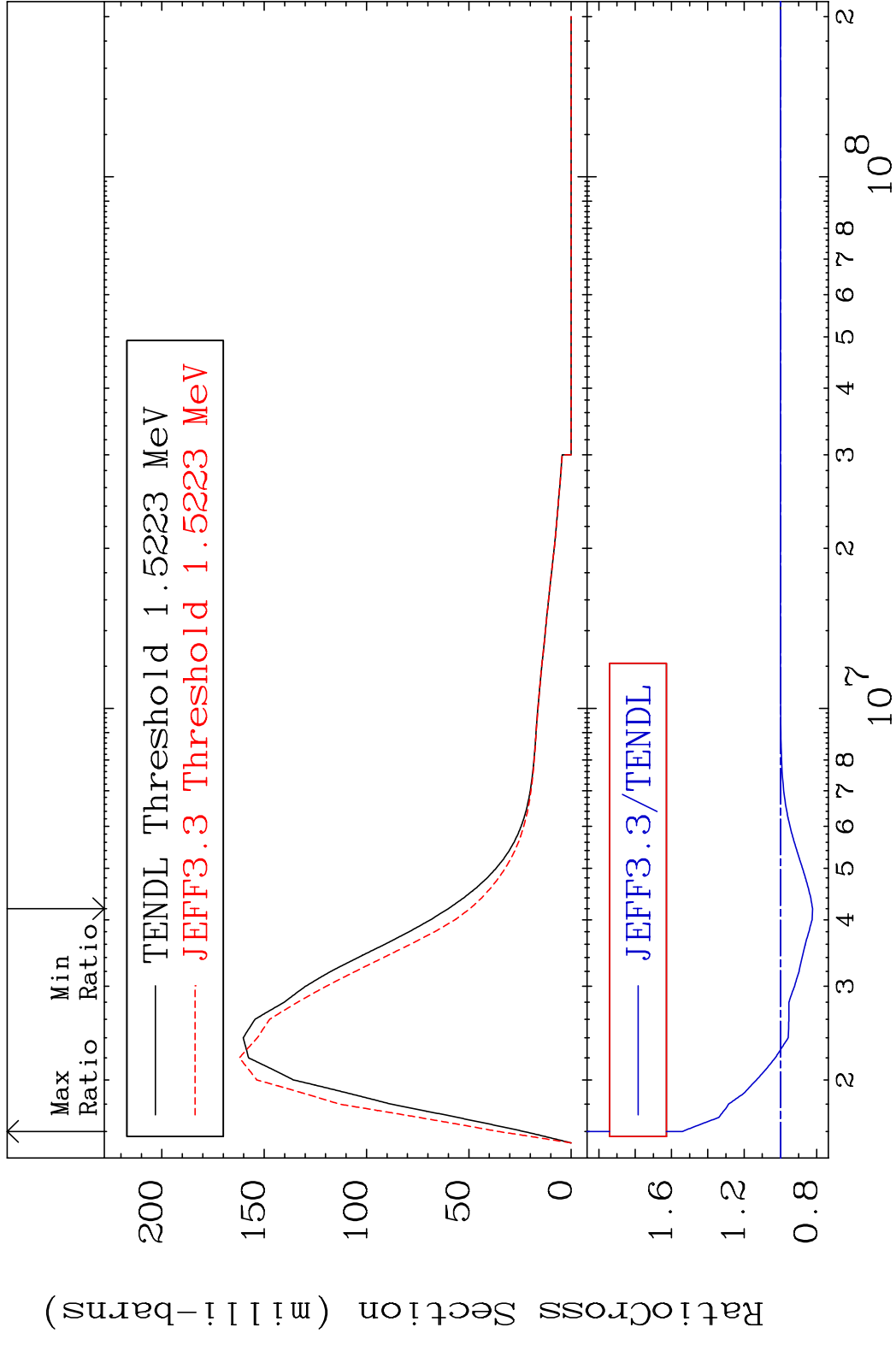


MAT 3437

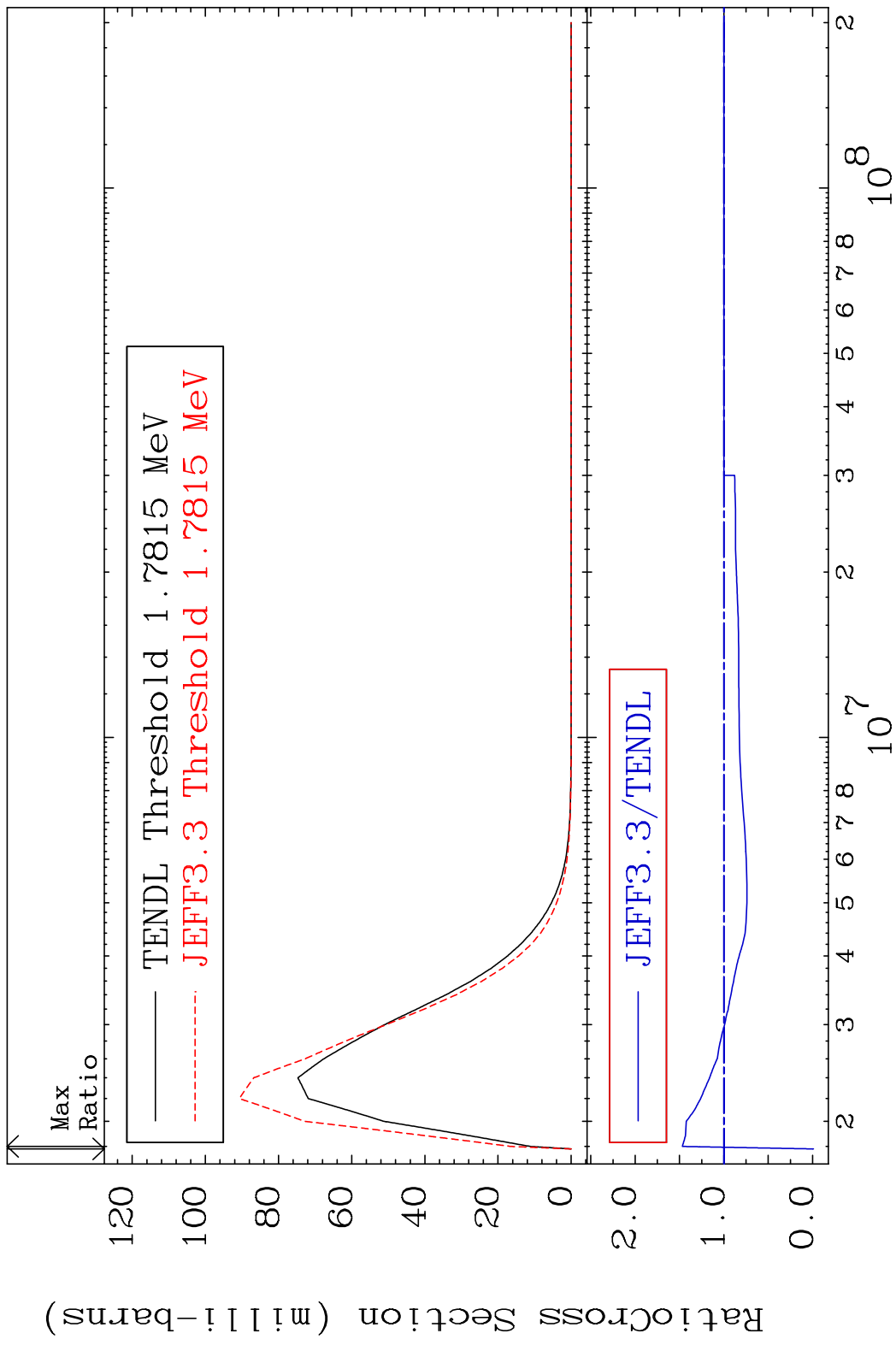
MT= 54 (n,n') Level

34-Se-78

Cross Section -17.69 To 54.02 %

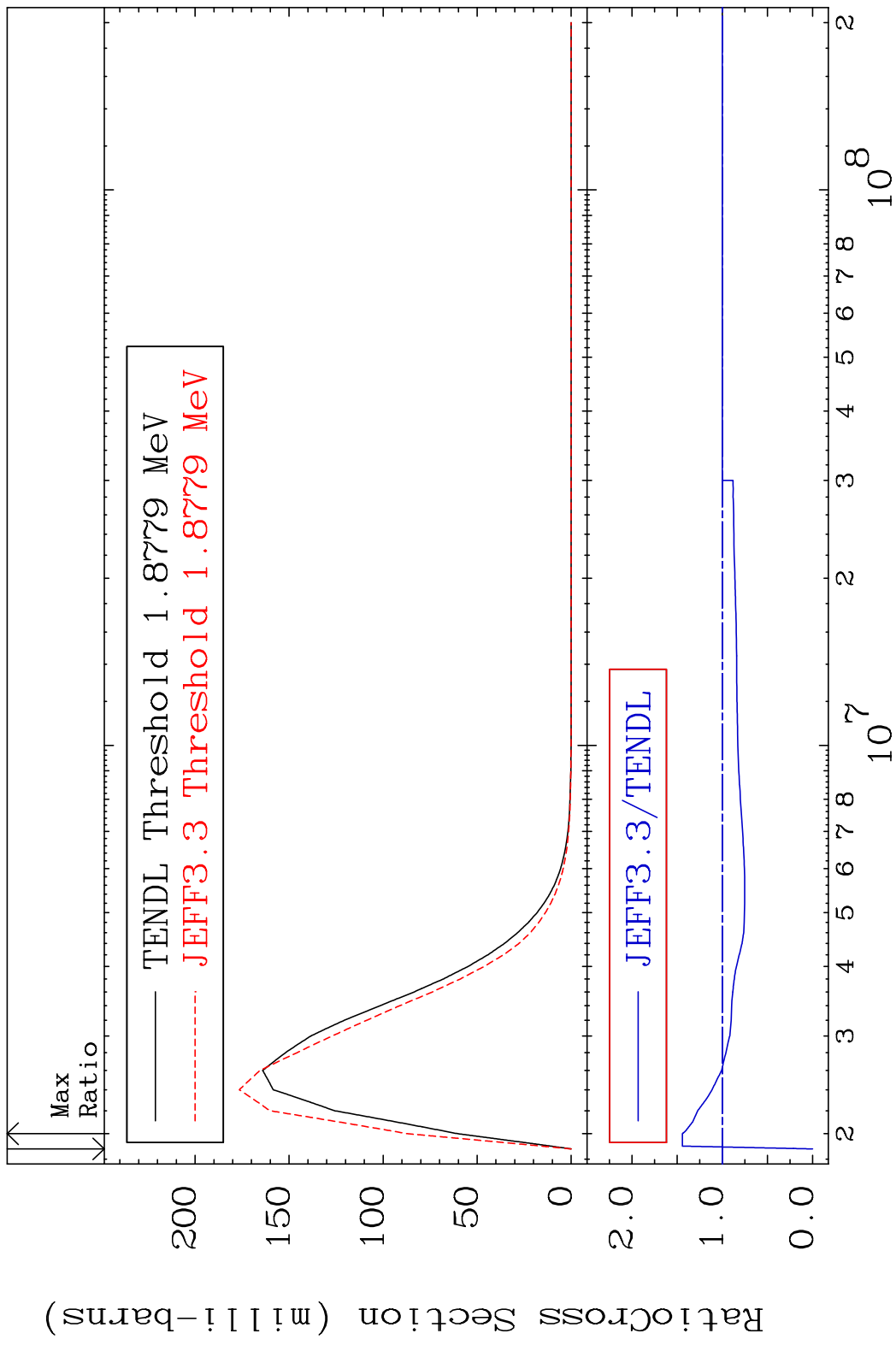


MAT 3437 MT= 55 (n,n') Level 34-Se-78  
 Cross Section -100.0 To 46.79 %

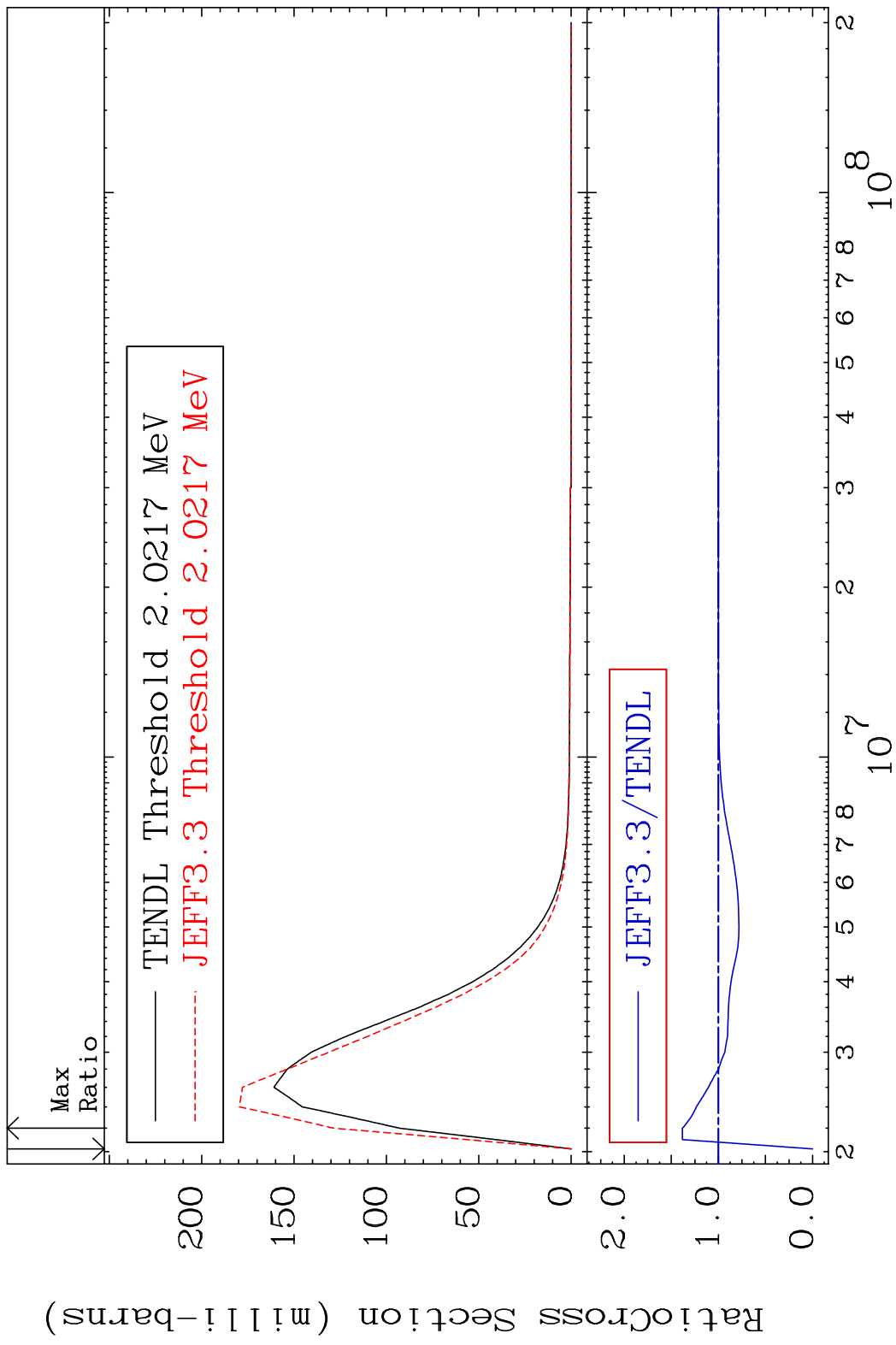




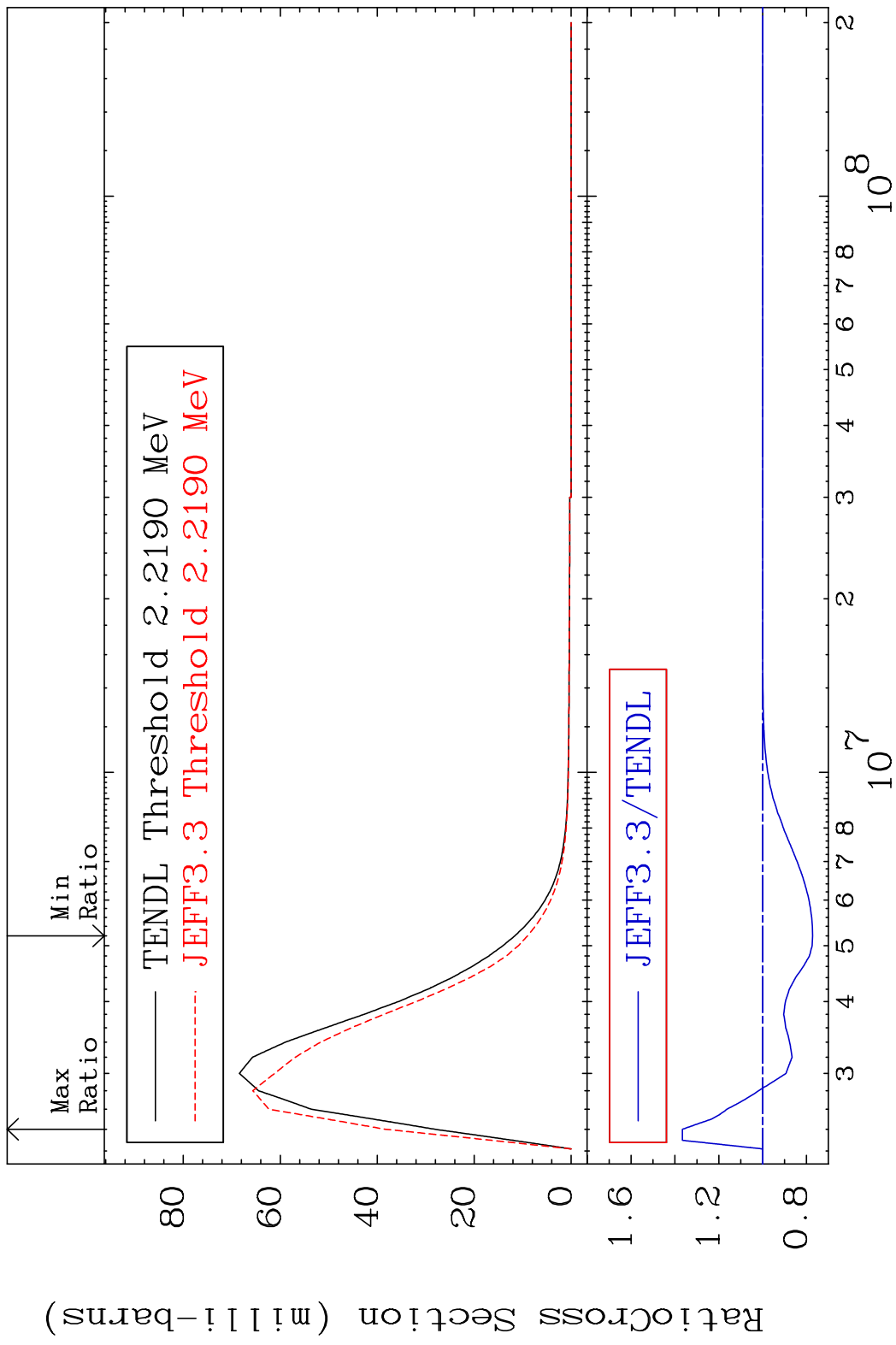
MAT 3437 MT= 56 (n,n') Level 34-Se-78  
 Cross Section -100.0 To 44.26 %



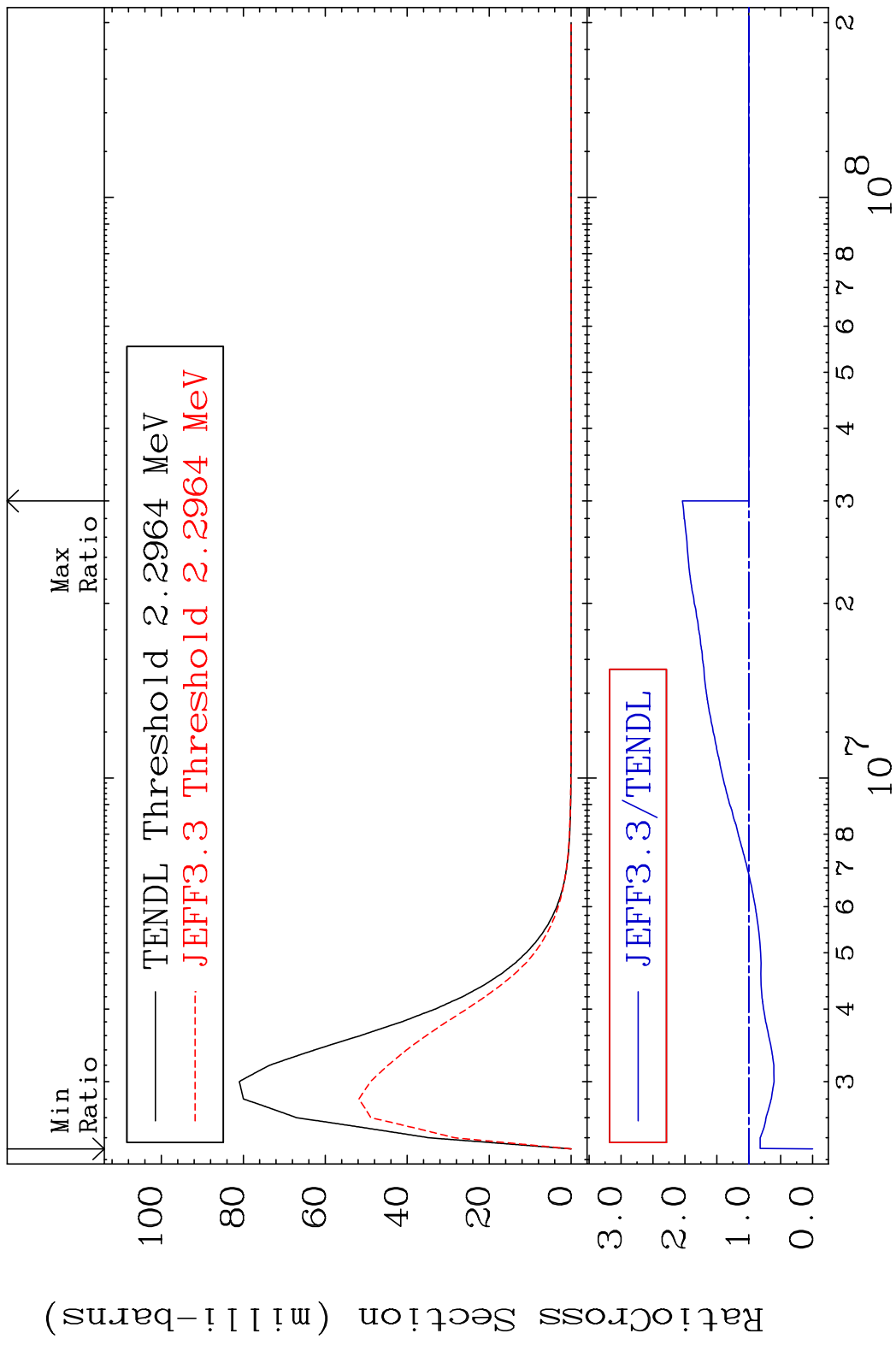
MAT 3437 MT= 57 (n, n') Level 34-Se-78  
 Cross Section -100.0 To 38.26 %



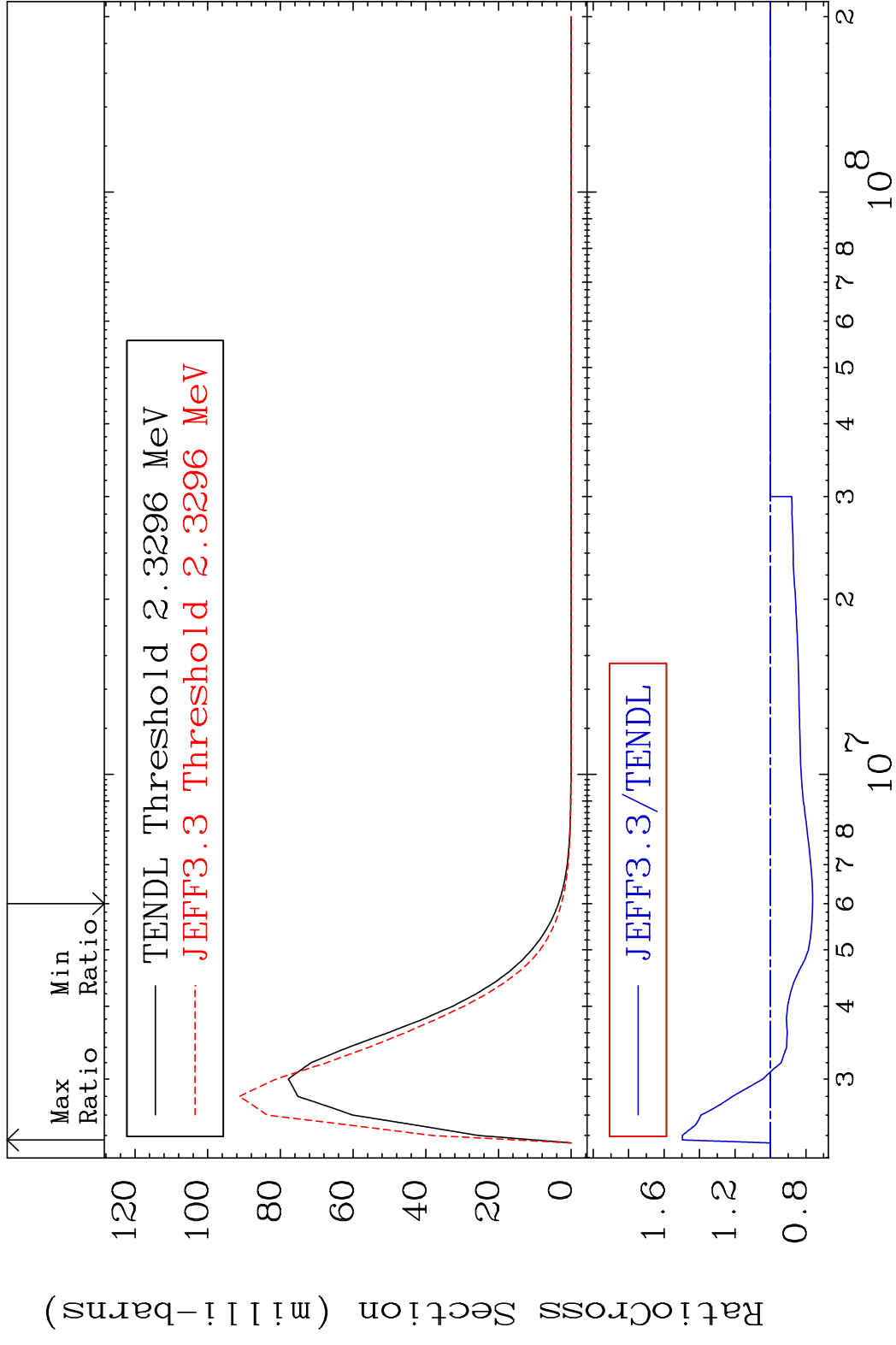
MAT 3437 MT= 58 (n, n') Level 34-Se-78  
 Cross Section -22.75 To 36.62 %



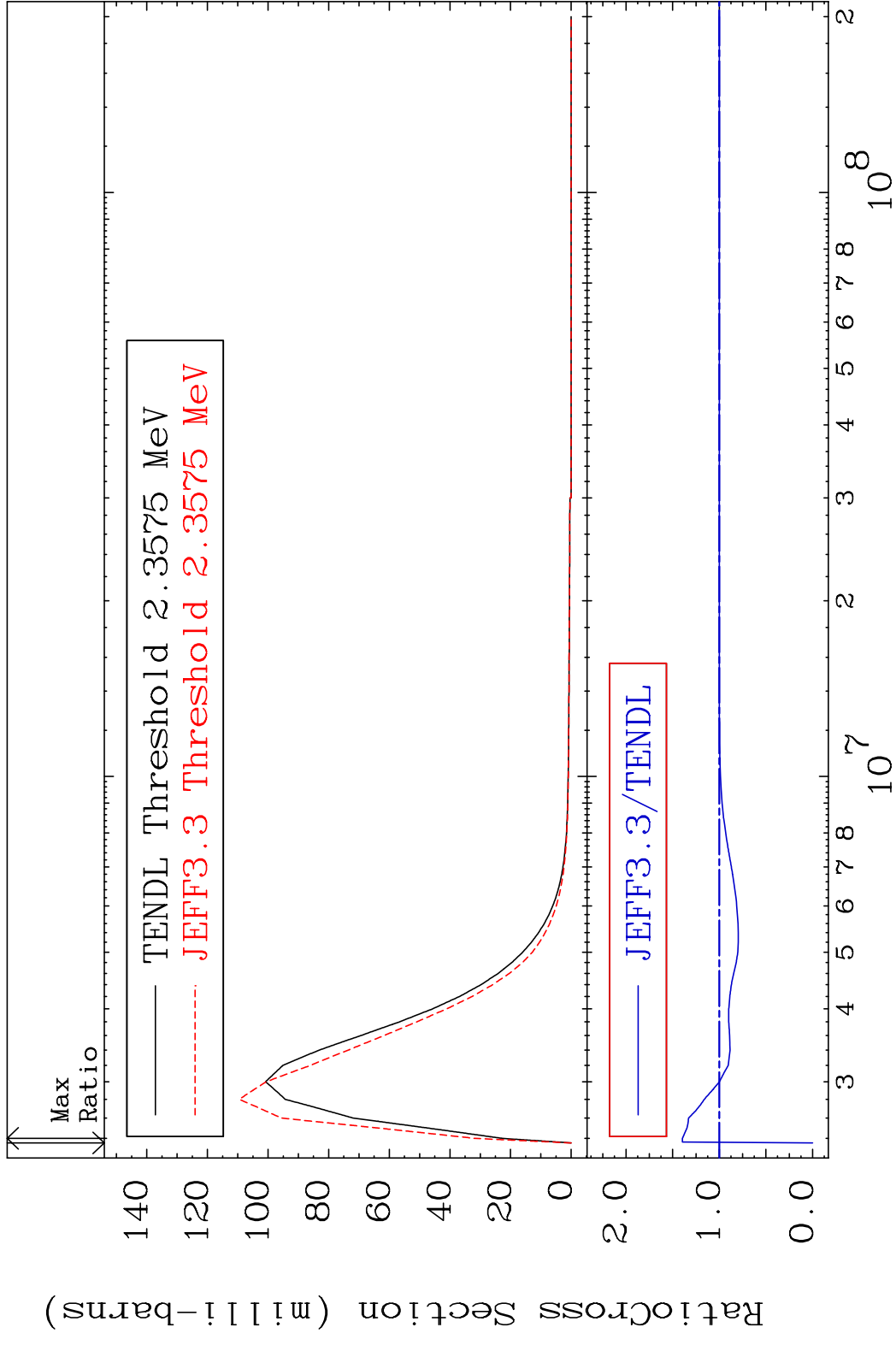
MAT 3437 MT= 59 (n, n') Level 34-Se-78  
 Cross Section -100.0 To 103.9 %



MAT 3437 MT= 60 (n,n') Level 34-Se-78  
 Cross Section -23.74 To 49.71 %



MAT 3437 MT= 61 (n,n') Level 34-Se-78  
 Cross Section -100.0 To 39.60 %

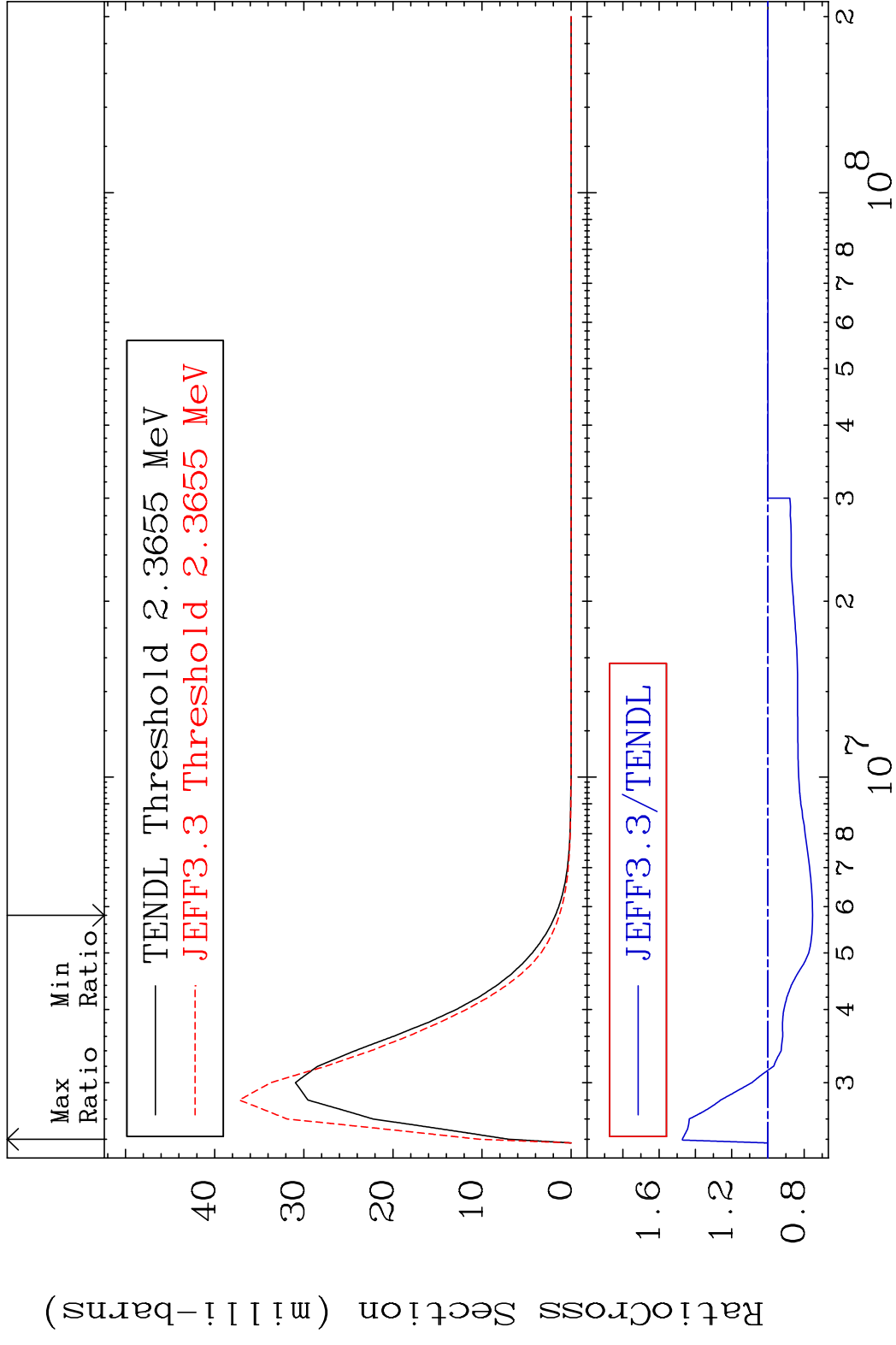


MAT 3437

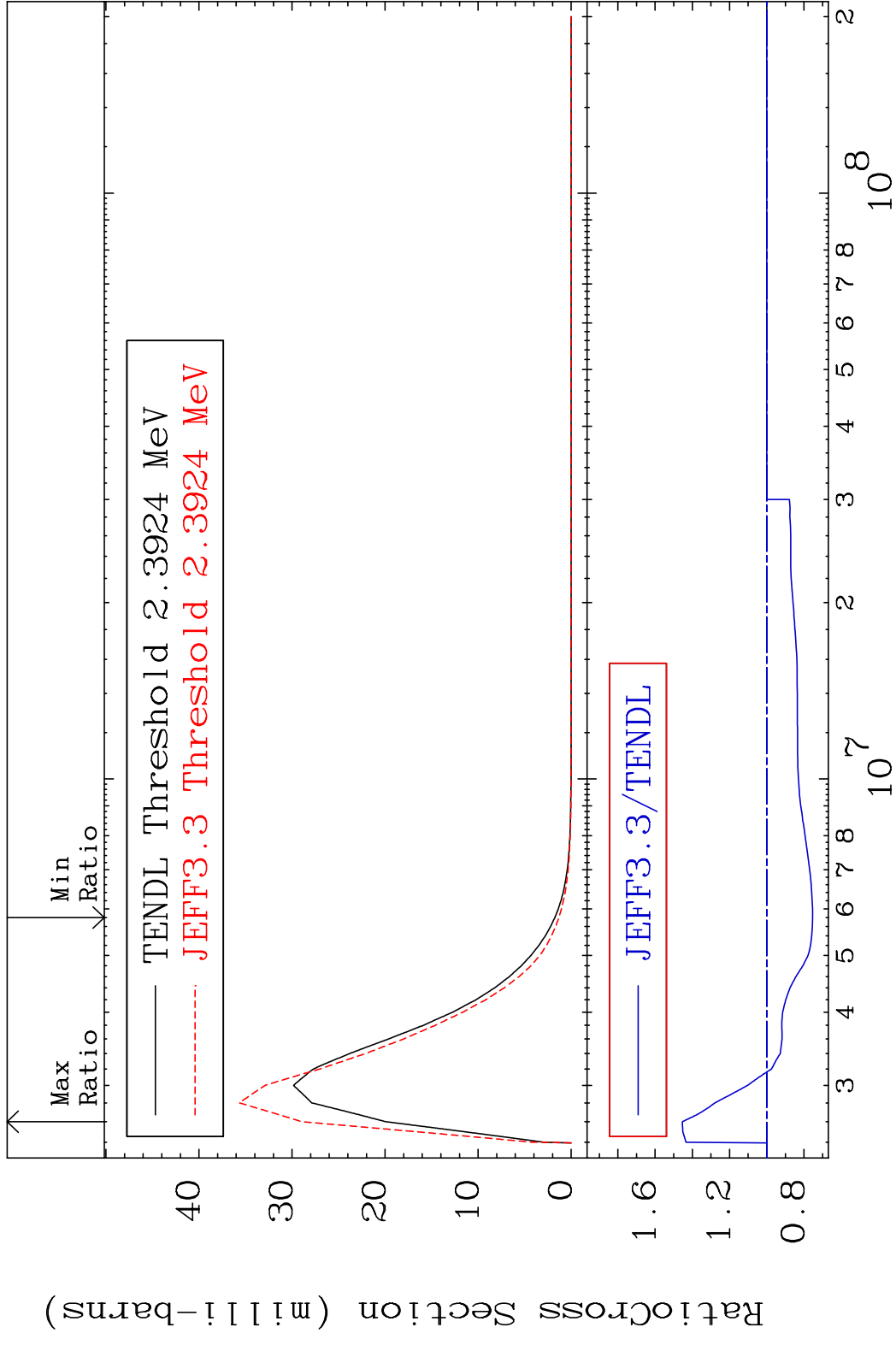
MT= 62 (n, n') Level

34-Se-78

Cross Section -24.68 To 47.17 %

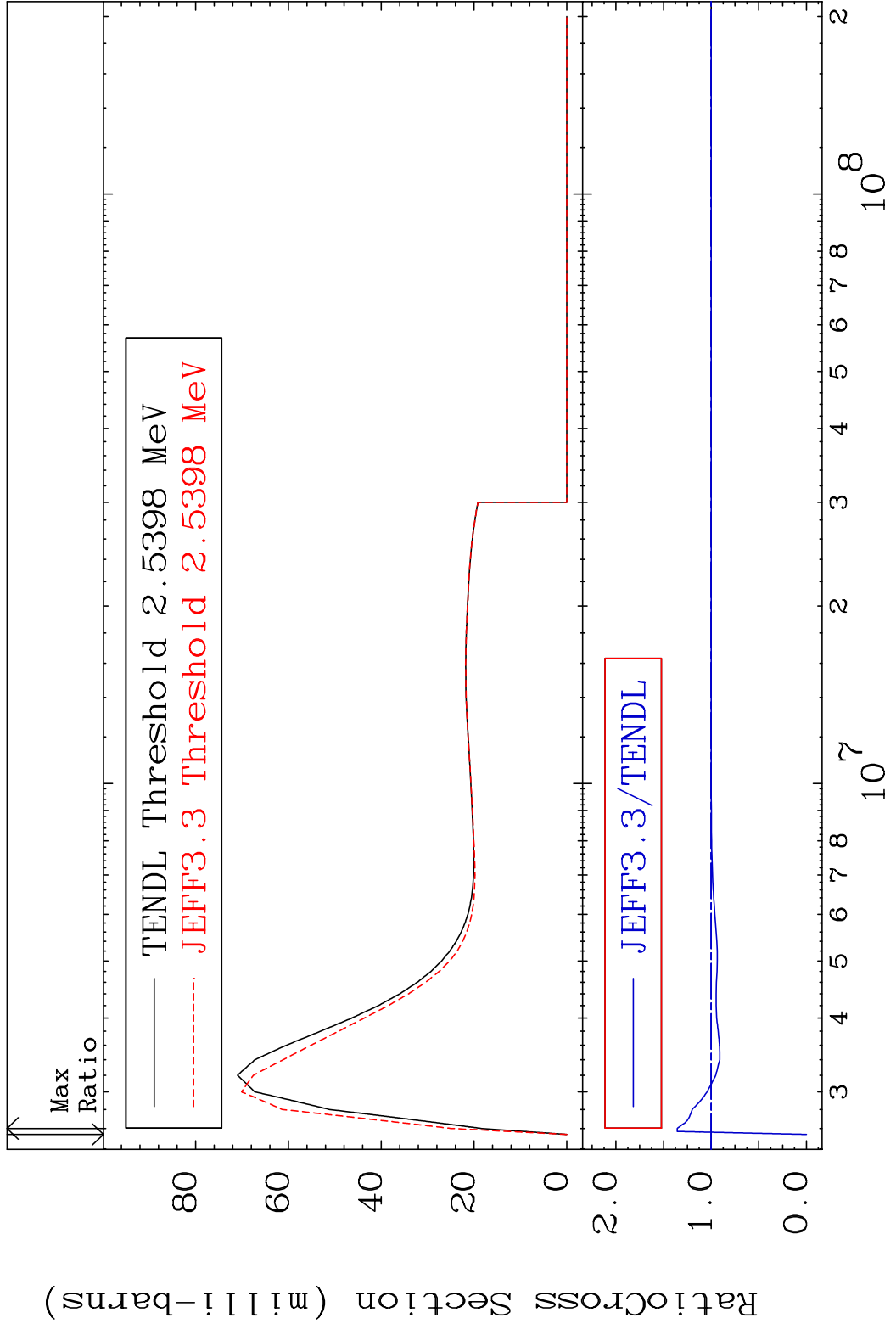


MAT 3437 MT= 63 (n, n') Level 34-Se-78  
 Cross Section -24.61 To 45.36 %





MAT 3437 MT= 64 (n, n') Level 34-Se-78  
 Cross Section -100.0 To 35.68 %

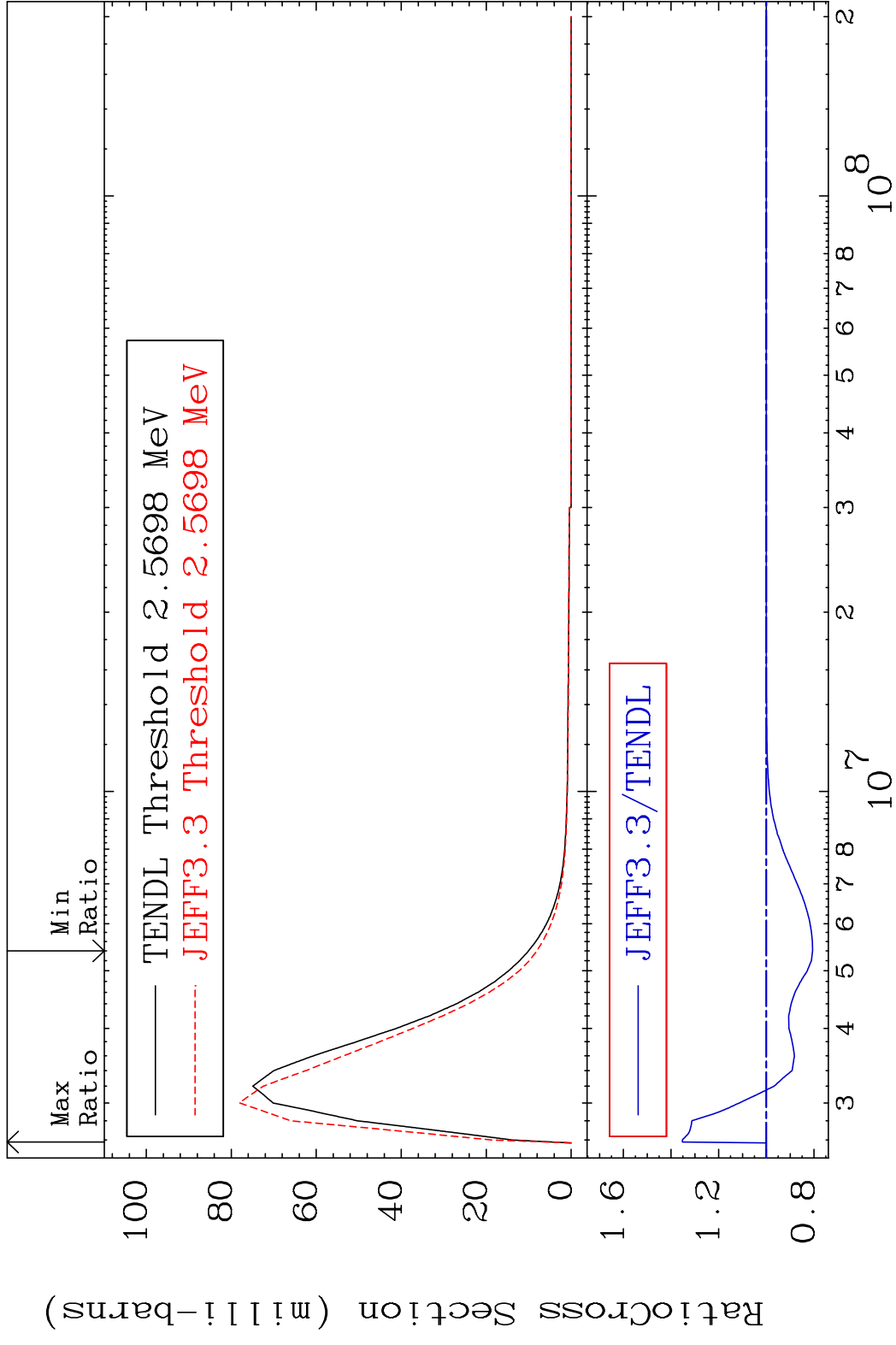


MAT 3437

MT= 65 (n,n') Level

34-Se-78

Cross Section -19.40 To 35.25 %



33

Incident Energy (eV)

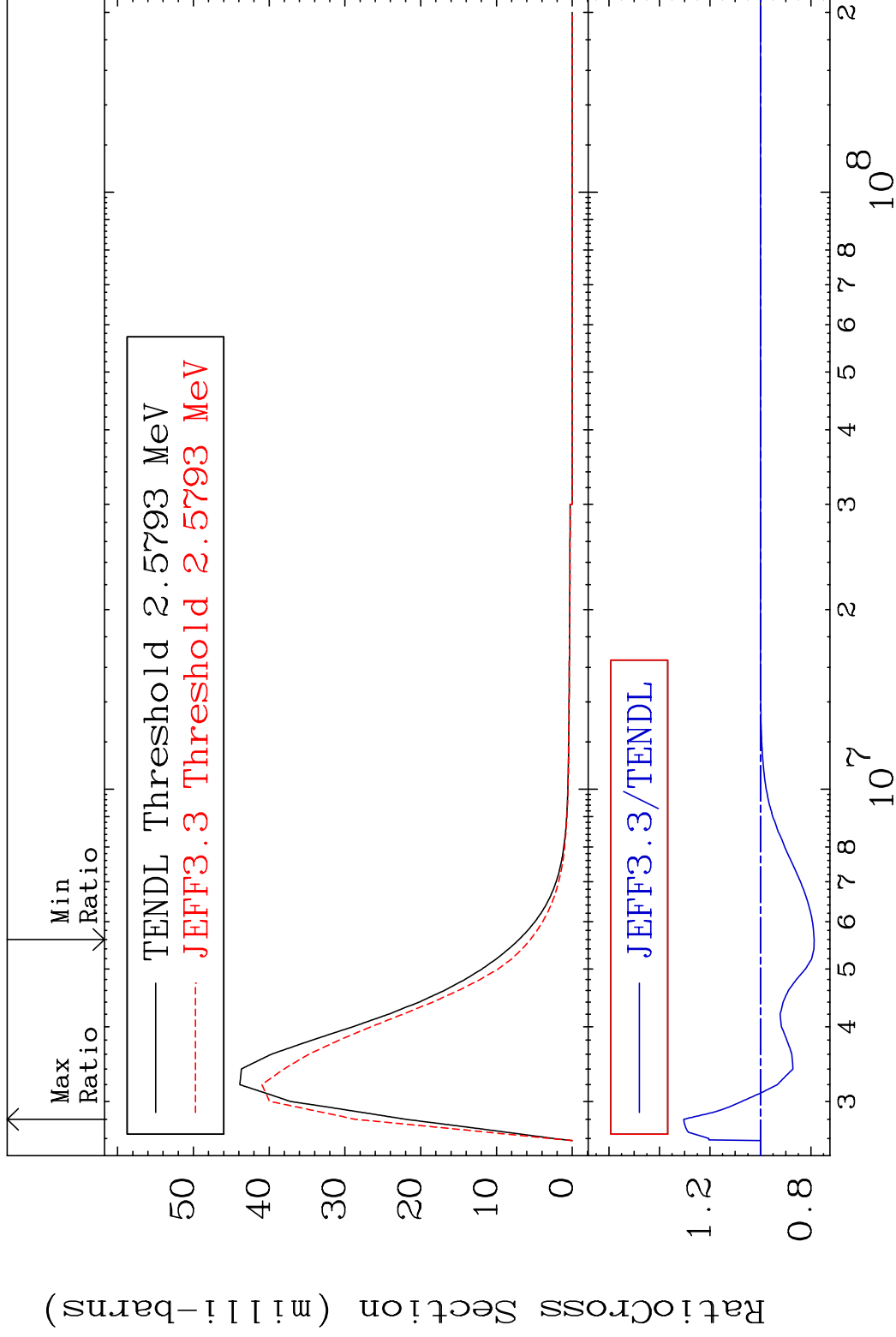
34-Se-78

MAT 3437

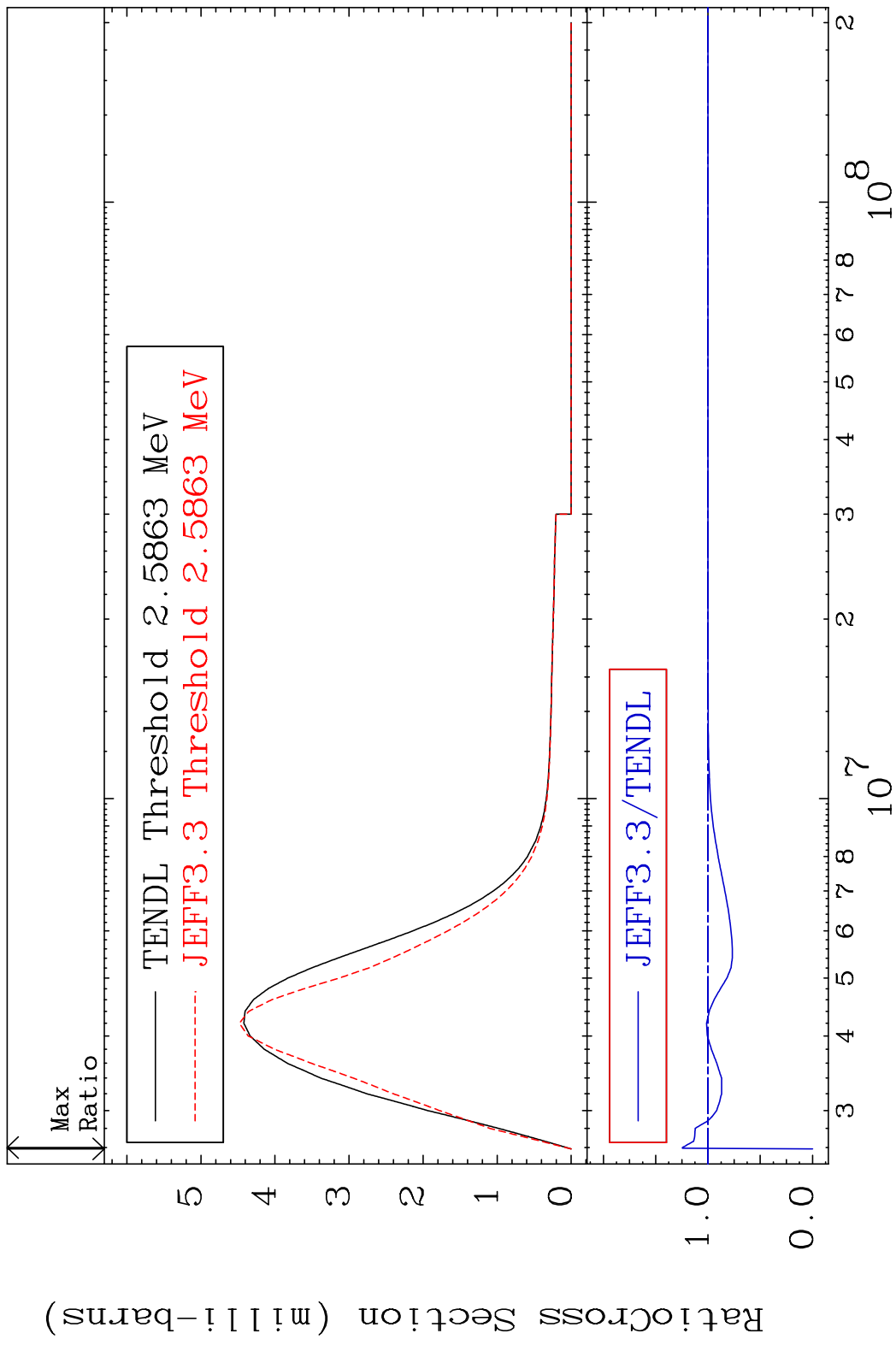
MT= 66 (n,n') Level

34-Se-78

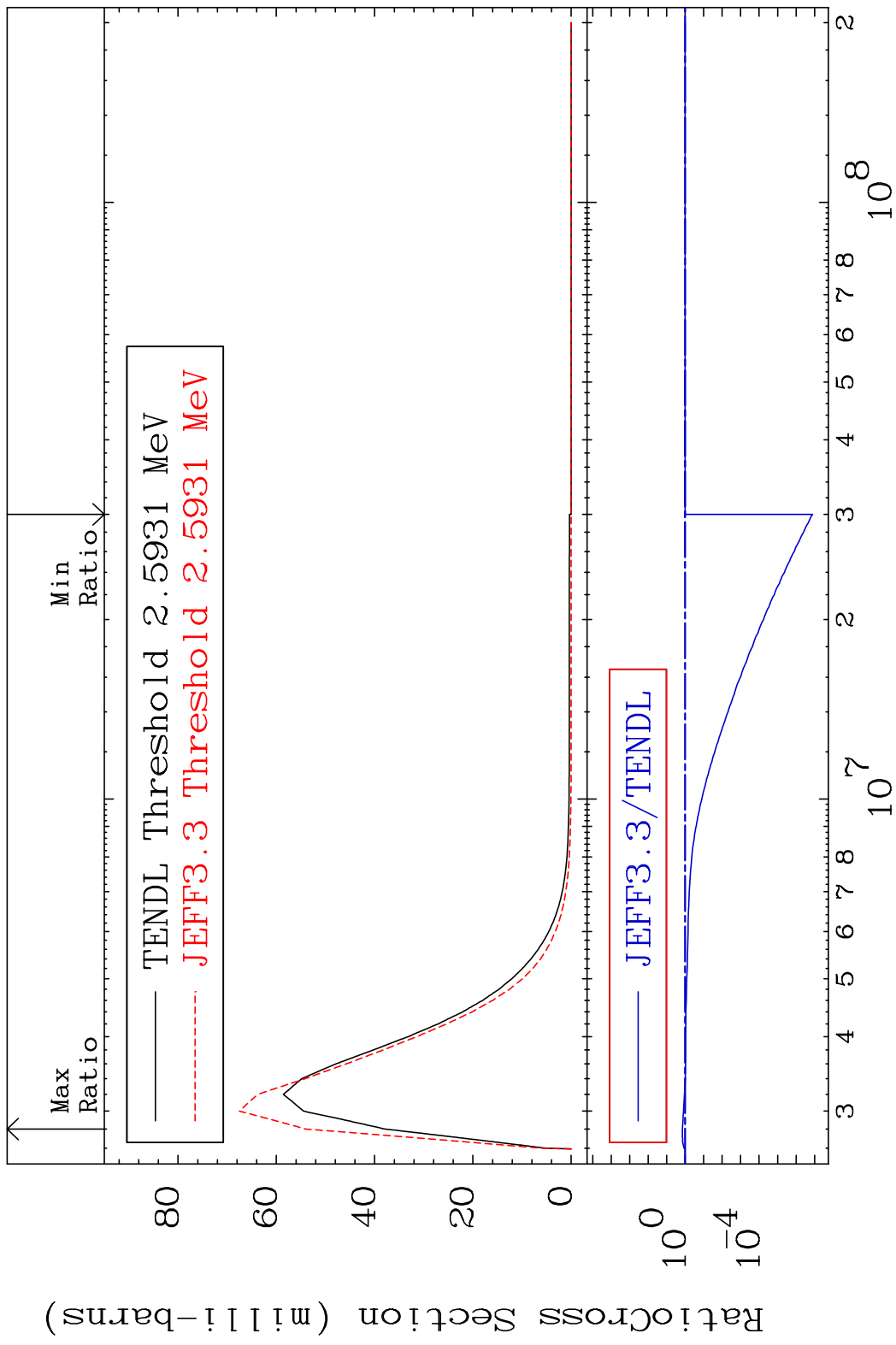
Cross Section -21.24 To 30.40 %



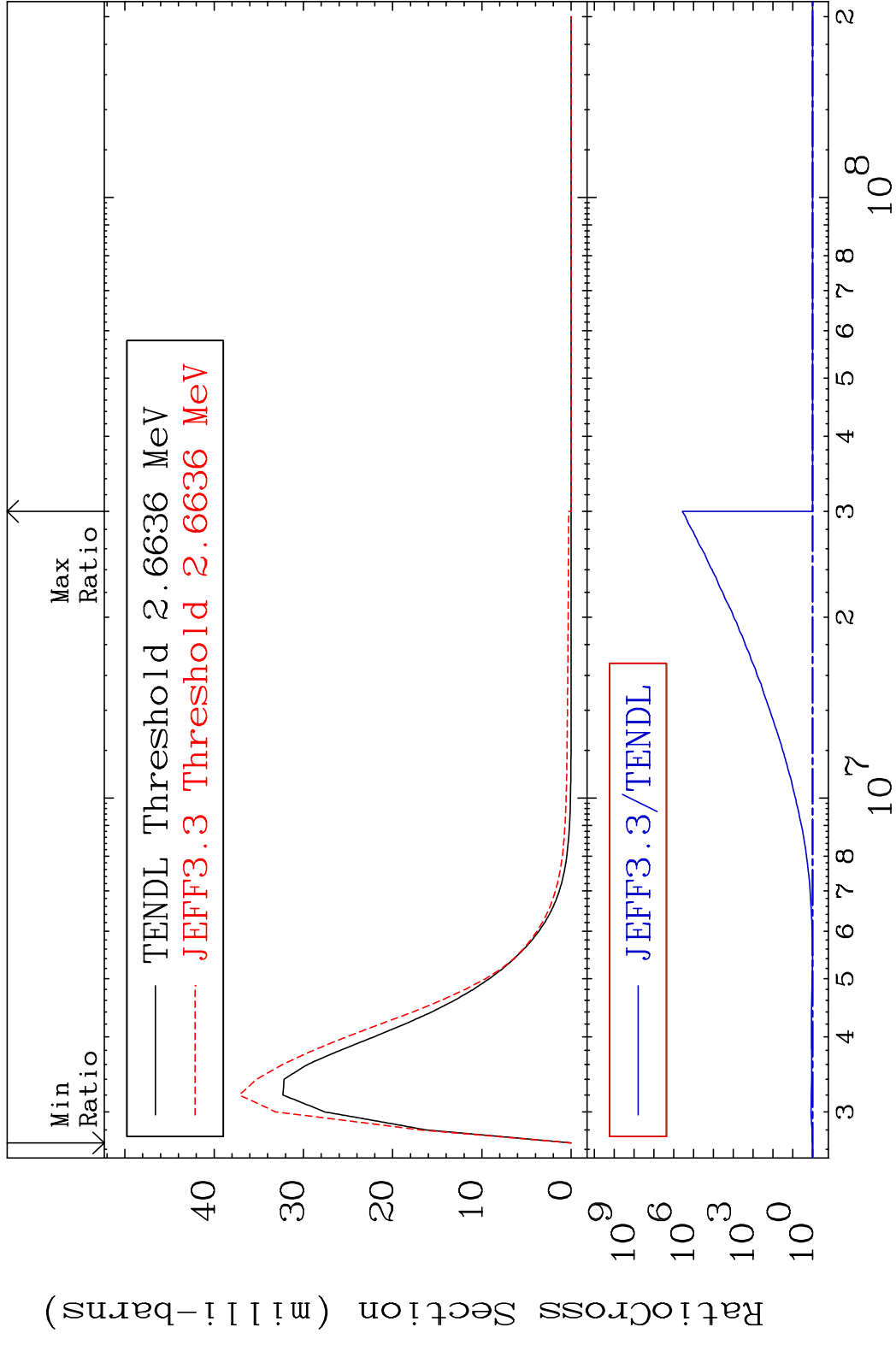
MAT 3437 MT= 67 (n,n') Level 34-Se-78  
 Cross Section -100.0 To 24.50 %



MAT 3437 MT= 68 (n, n') Level 34-Se-78  
 Cross Section -100.0 To 42.53 %



MAT 3437 MT= 69 (n, n') Level 34-Se-78  
 Cross Section 0.000 To 9999. %

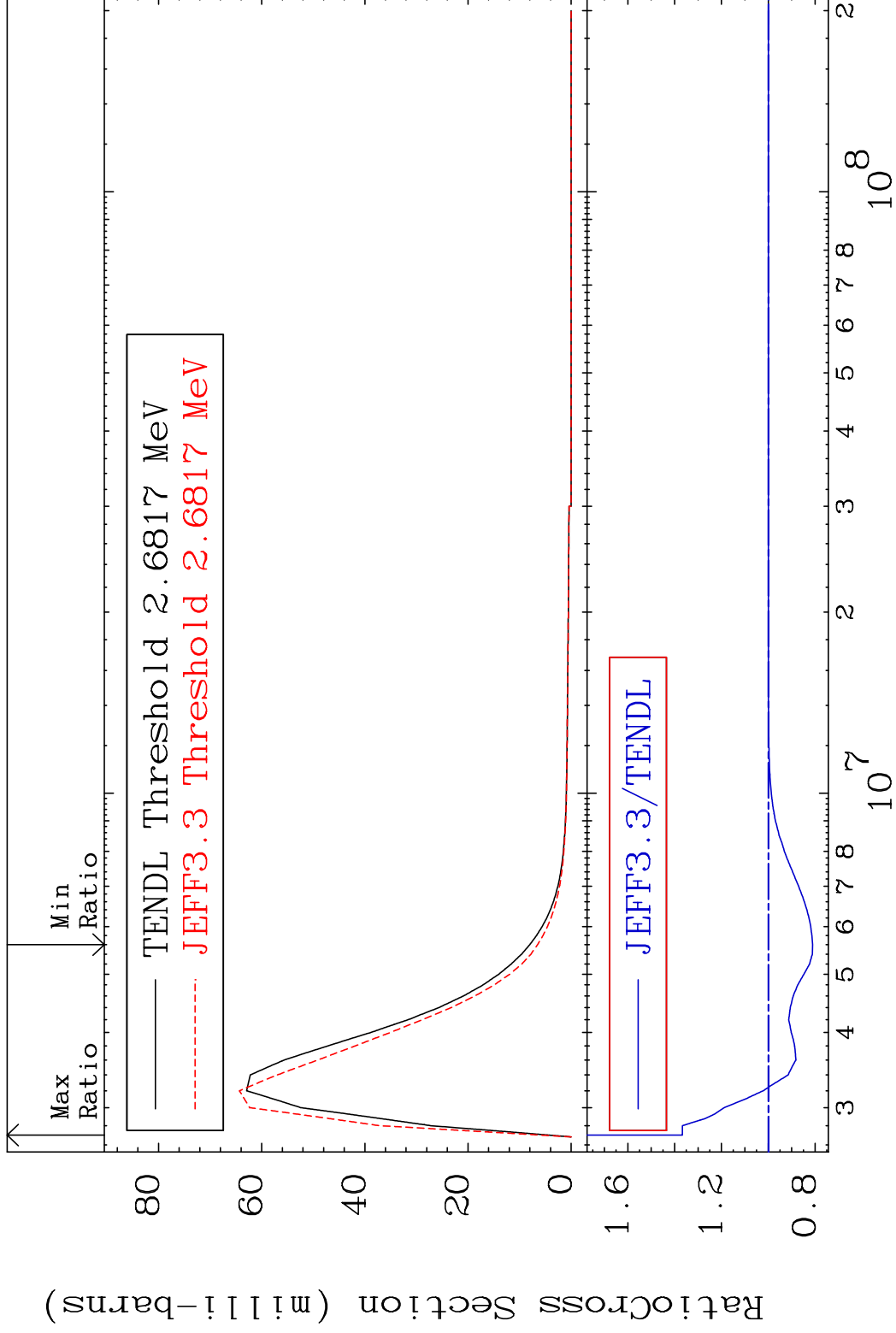


MAT 3437

MT= 70 (n,n') Level

34-Se-78

Cross Section -18.89 To 36.71 %

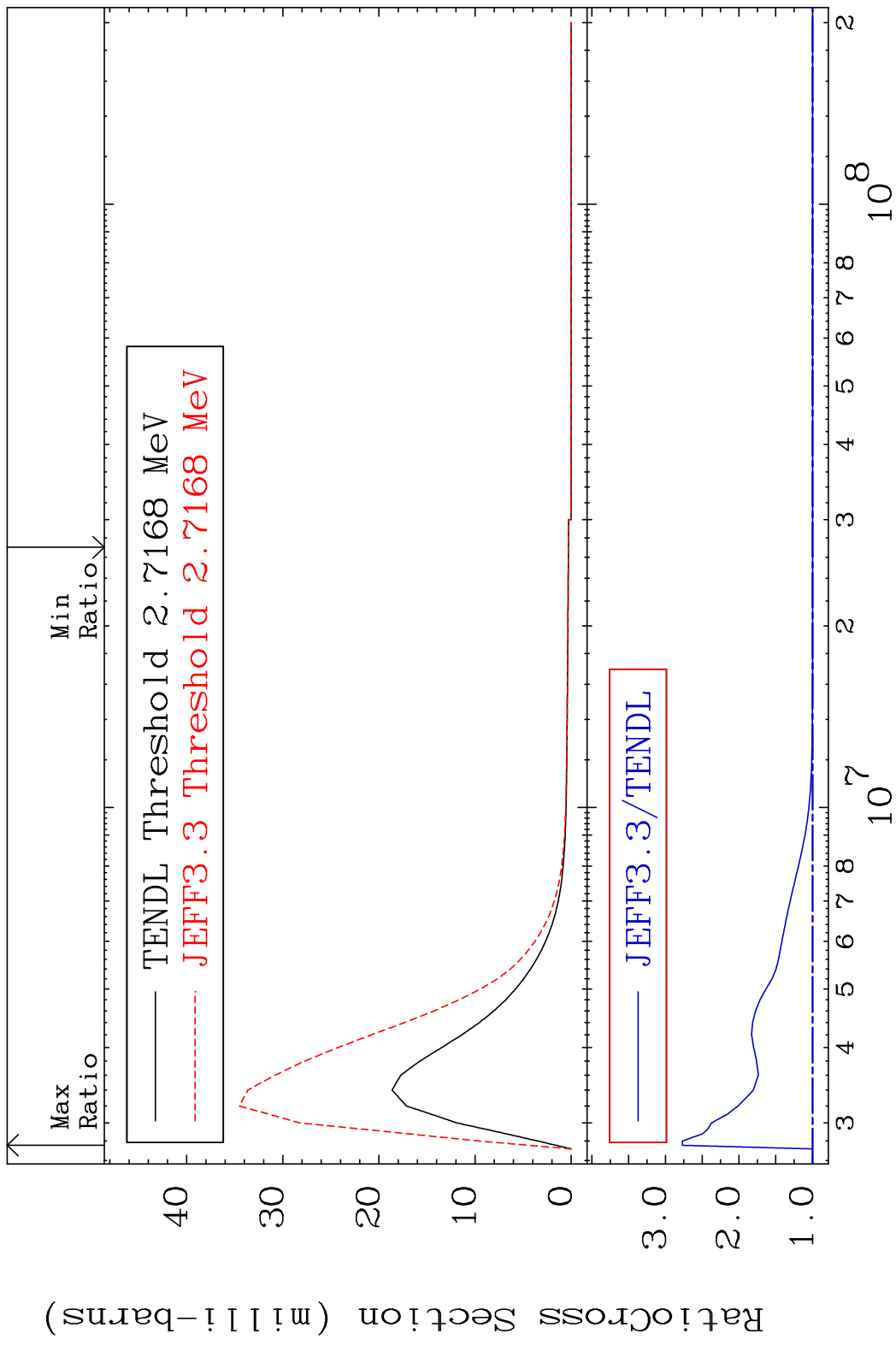


38

Incident Energy (eV)

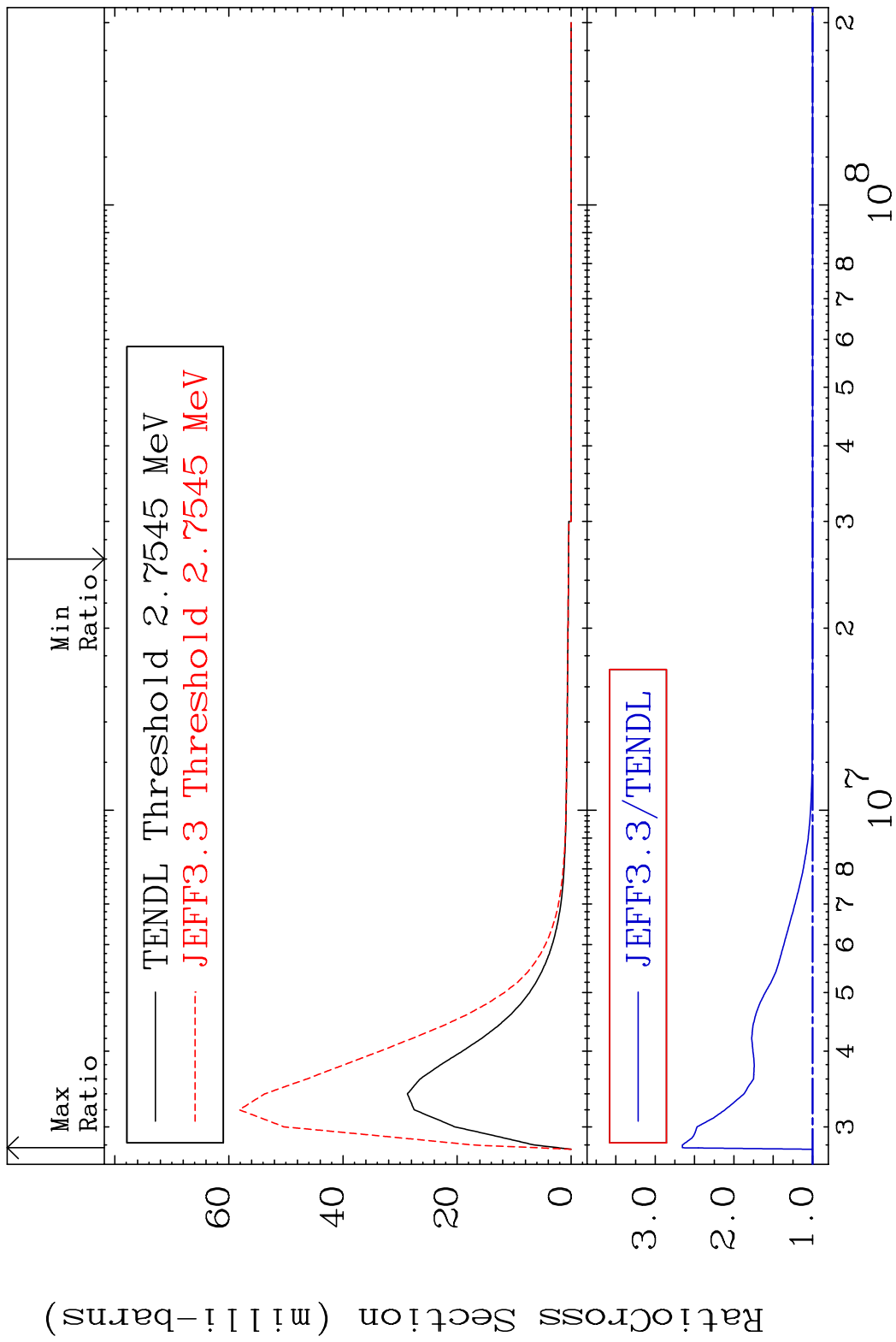
34-Se-78

MAT 3437 MT= 71 (n,n') Level 34-Se-78  
 Cross Section 0.000 To 177.0 %



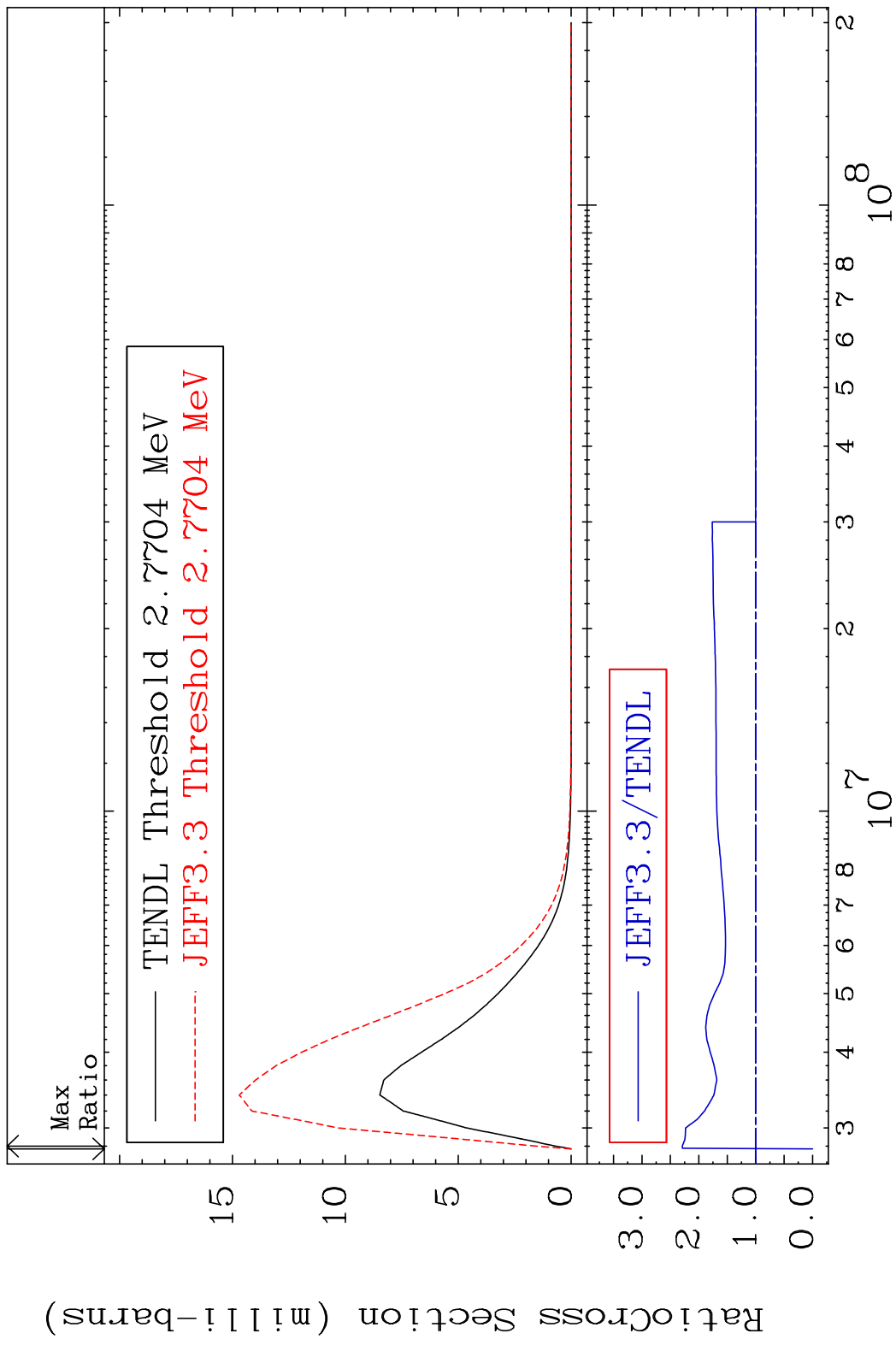


MAT 3437      MT= 72 (n,n') Level      34-Se-78  
 Cross Section    0.000    To 165.5 %

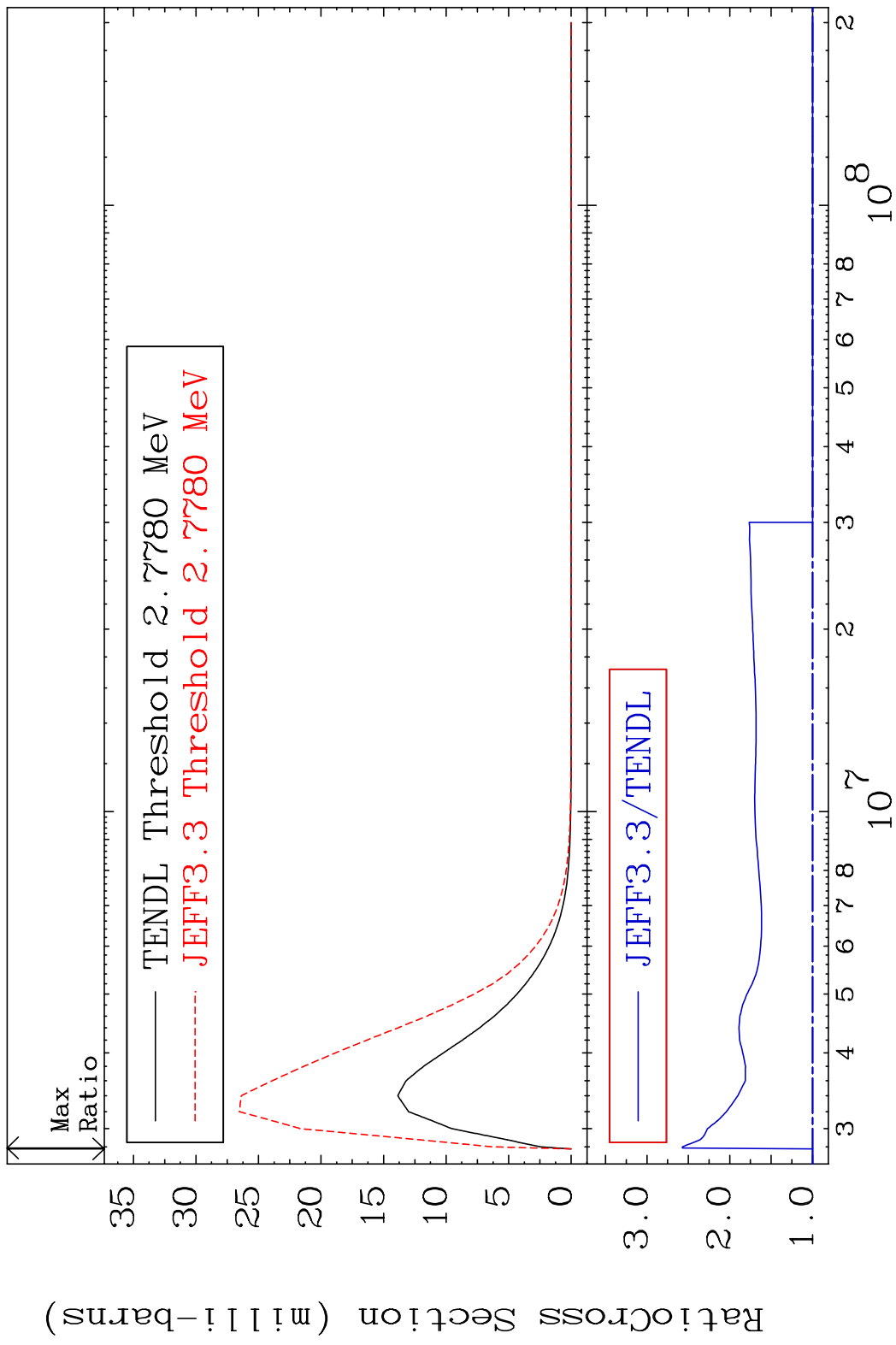


40      Incident Energy (eV)      34-Se-78

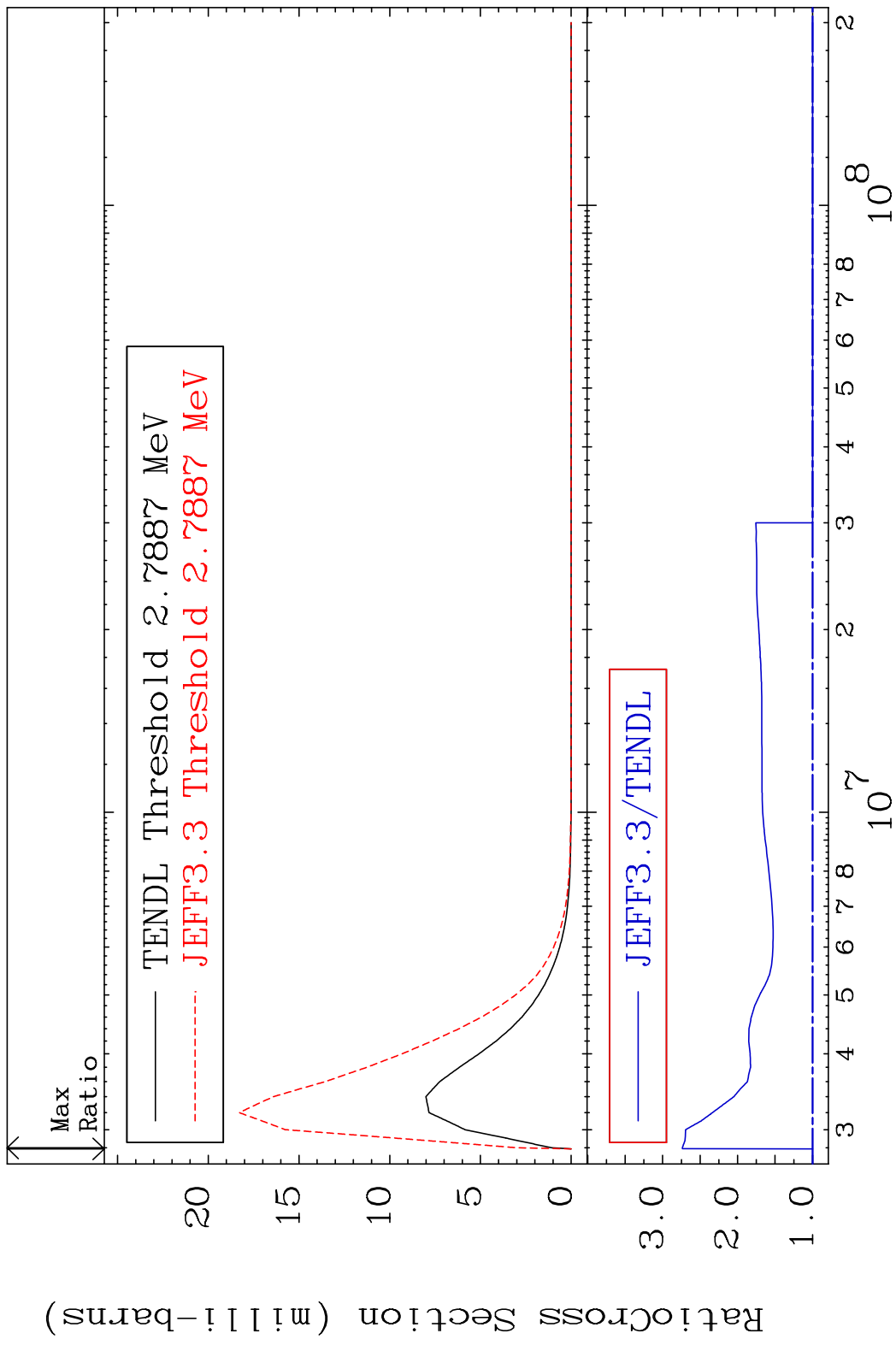
MAT 3437 MT= 73 (n,n') Level 34-Se-78  
 Cross Section -100.0 To 129.0 %



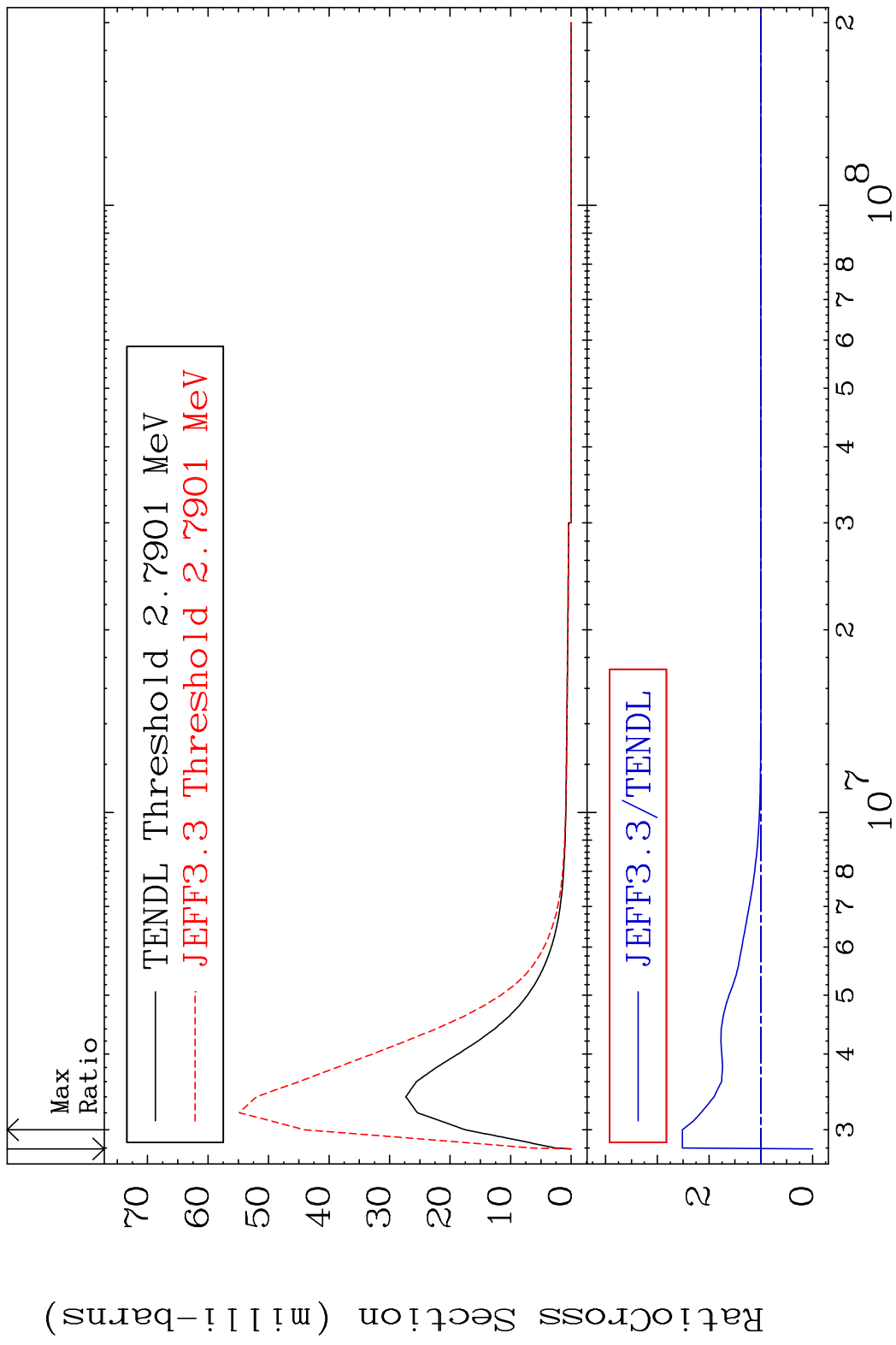
MAT 3437 MT= 74 (n, n') Level 34-Se-78  
 Cross Section 0.000 To 157.2 %



MAT 3437      MT= 75 (n,n') Level      34-Se-78  
 Cross Section    0.000    To 173.7 %

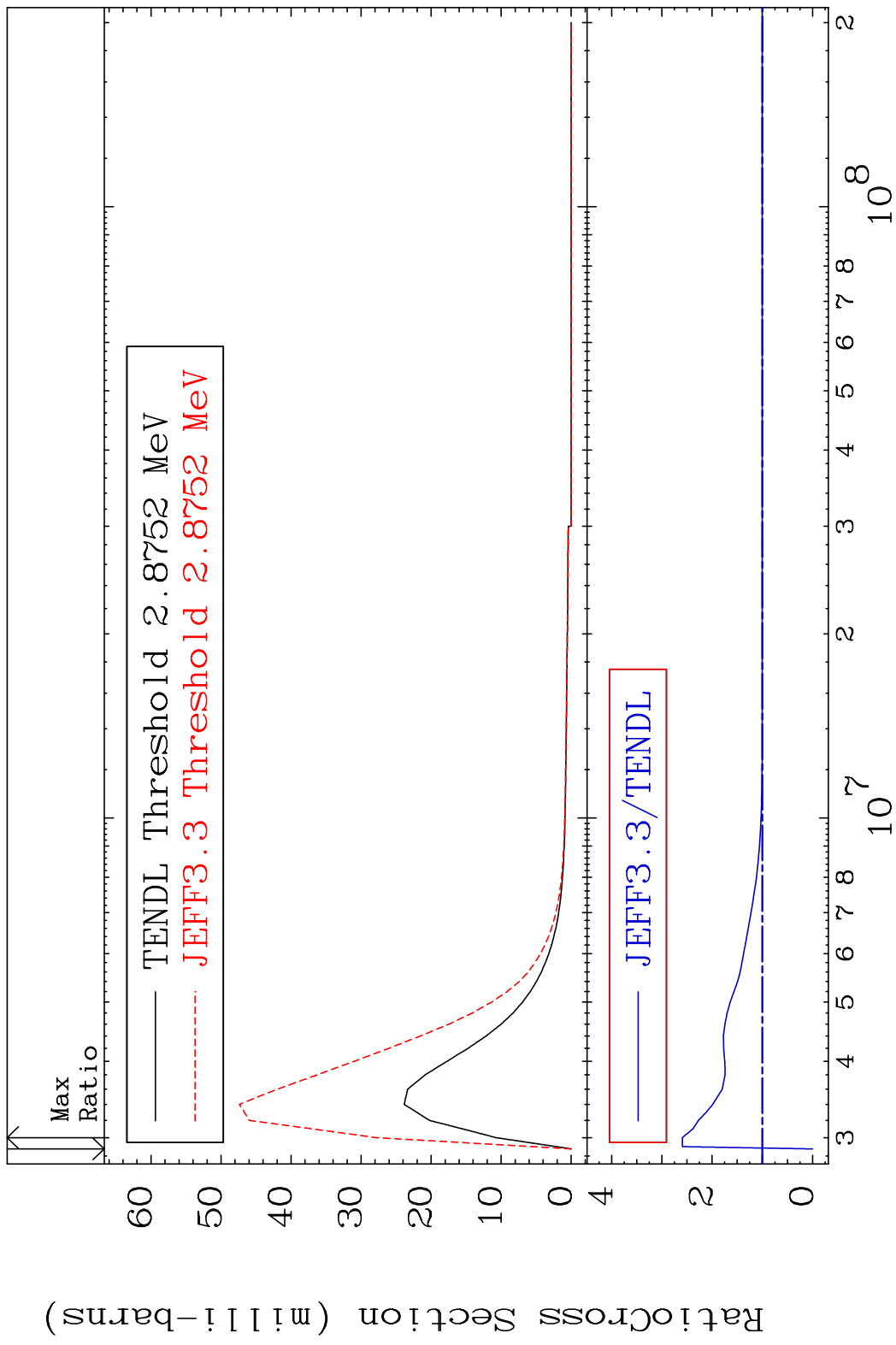


MAT 3437 MT= 76 (n, n') Level 34-Se-78  
 Cross Section -100.0 To 151.6 %



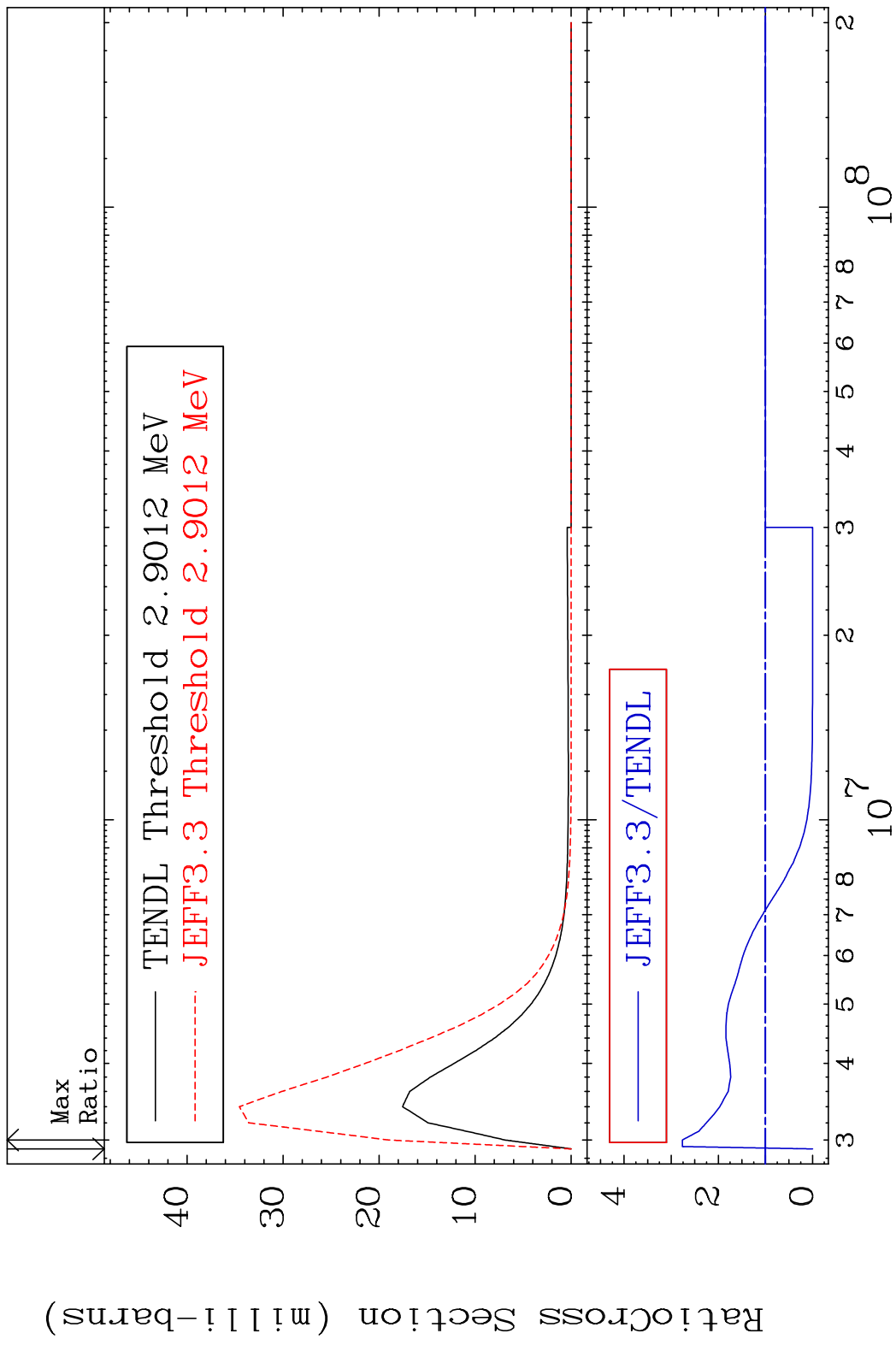
44 Incident Energy (eV) 34-Se-78

MAT 3437 MT= 77 (n,n') Level 34-Se-78  
 Cross Section -100.0 To 159.2 %

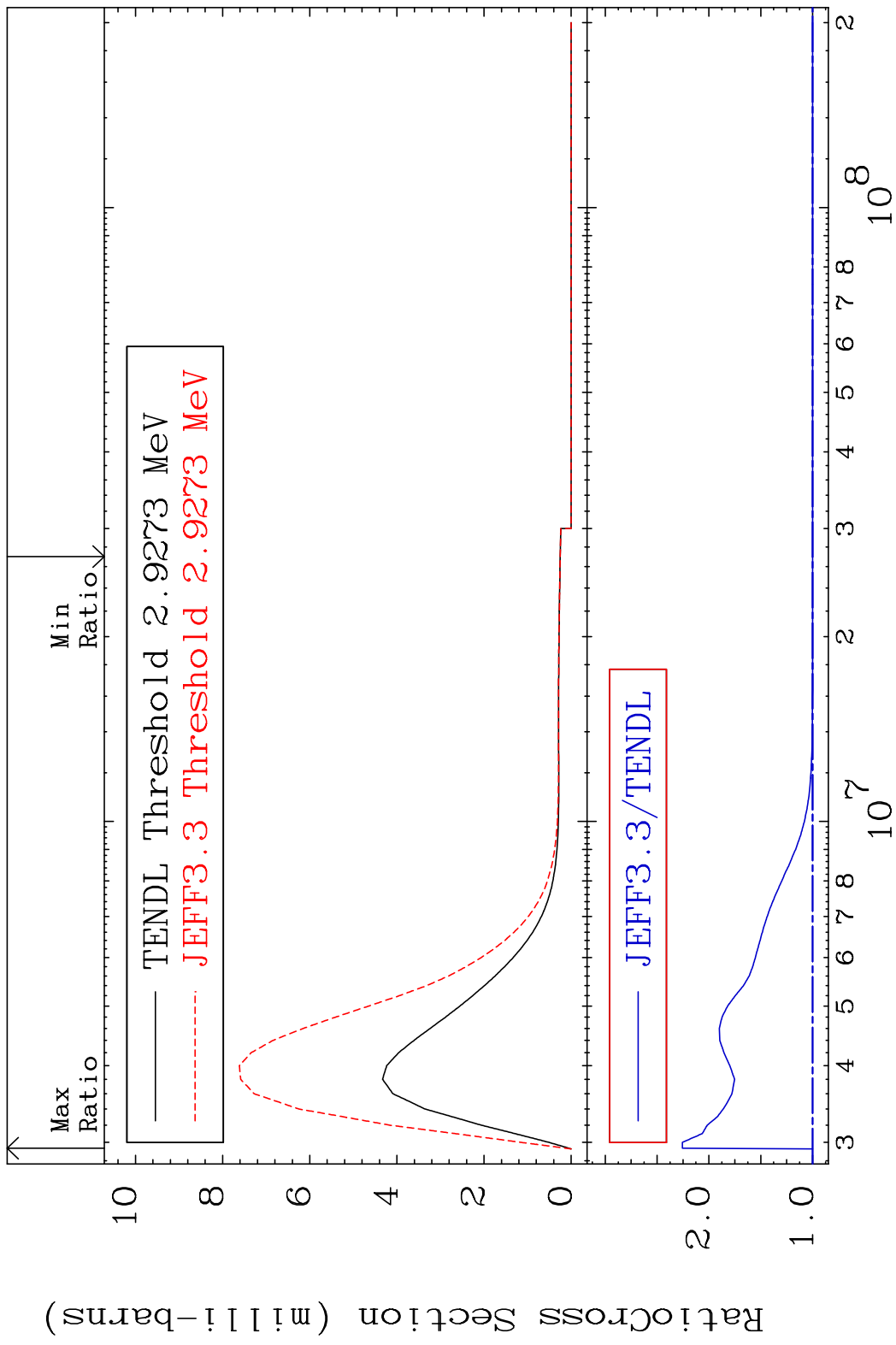


45 34-Se-78

MAT 3437      MT= 78 (n,n') Level      34-Se-78  
 Cross Section    -100.0 To 176.4 %

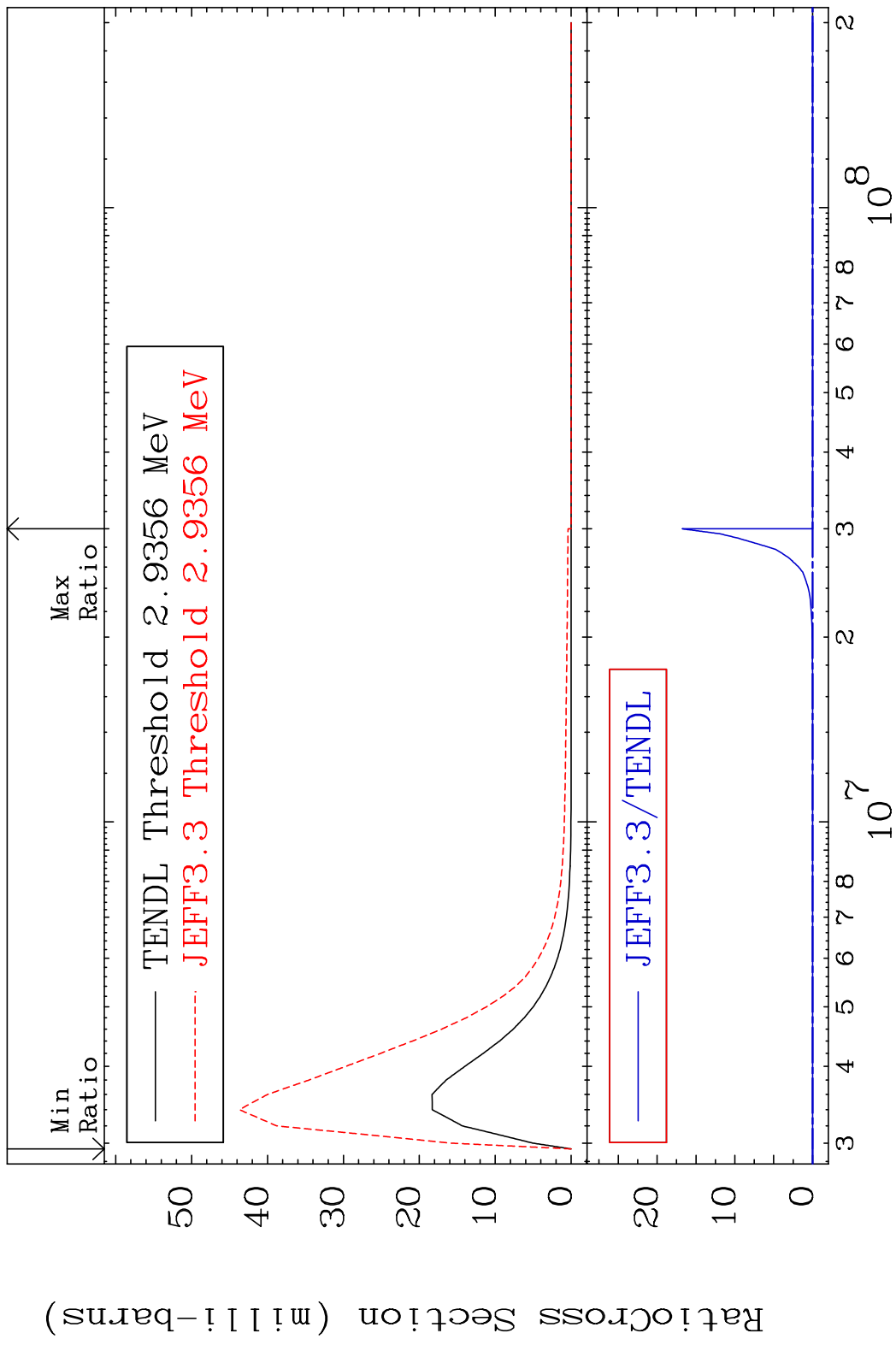


MAT 3437 MT= 79 (n,n') Level 34-Se-78  
 Cross Section 0.000 To 125.6 %

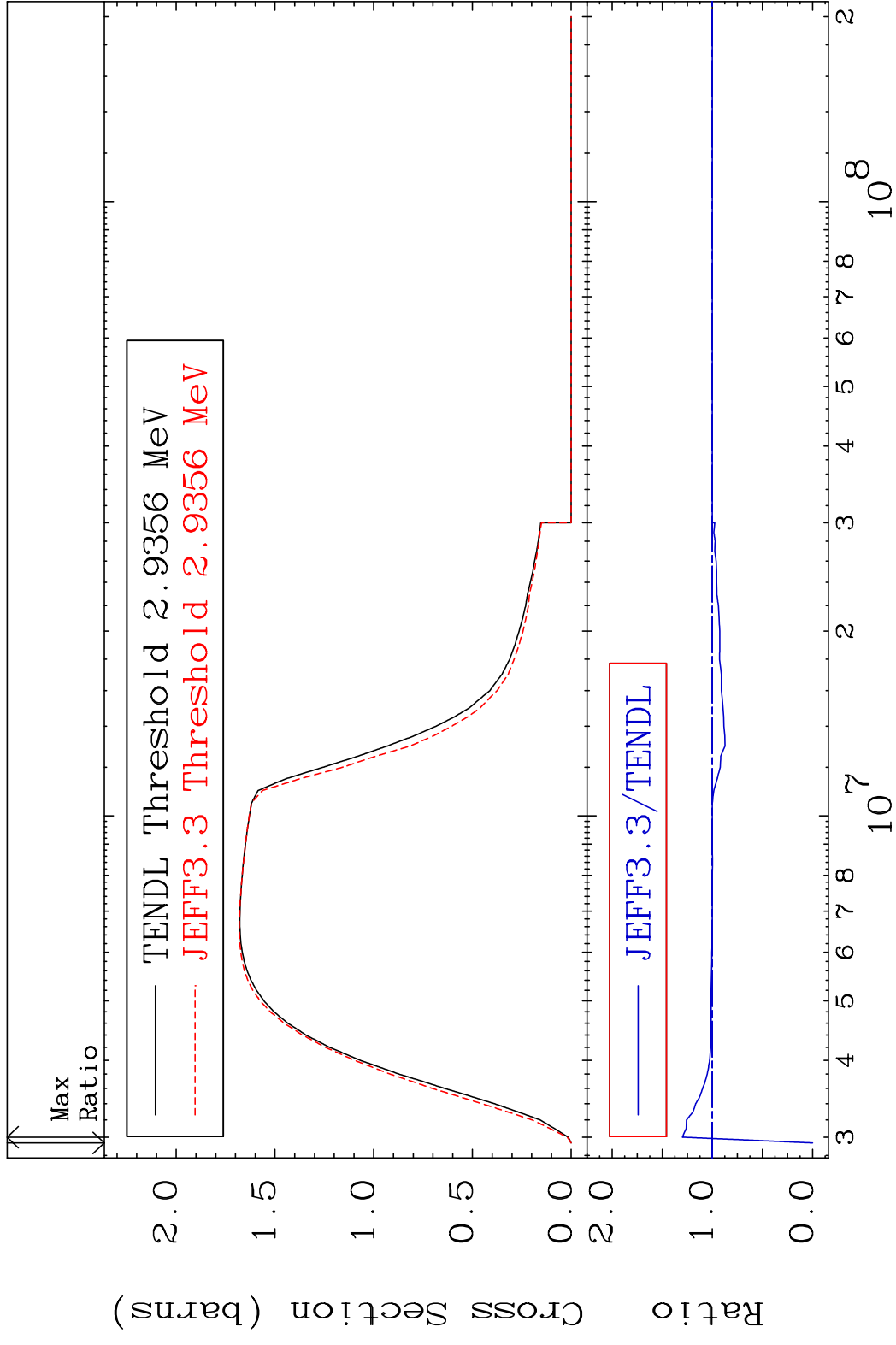




MAT 3437 MT= 80 (n, n') Level 34-Se-78  
 Cross Section -100.0 To 9999. %



MAT 3437 (n,n') Continuum 34-Se-78  
 Cross Section -100.0 To 29.95 %

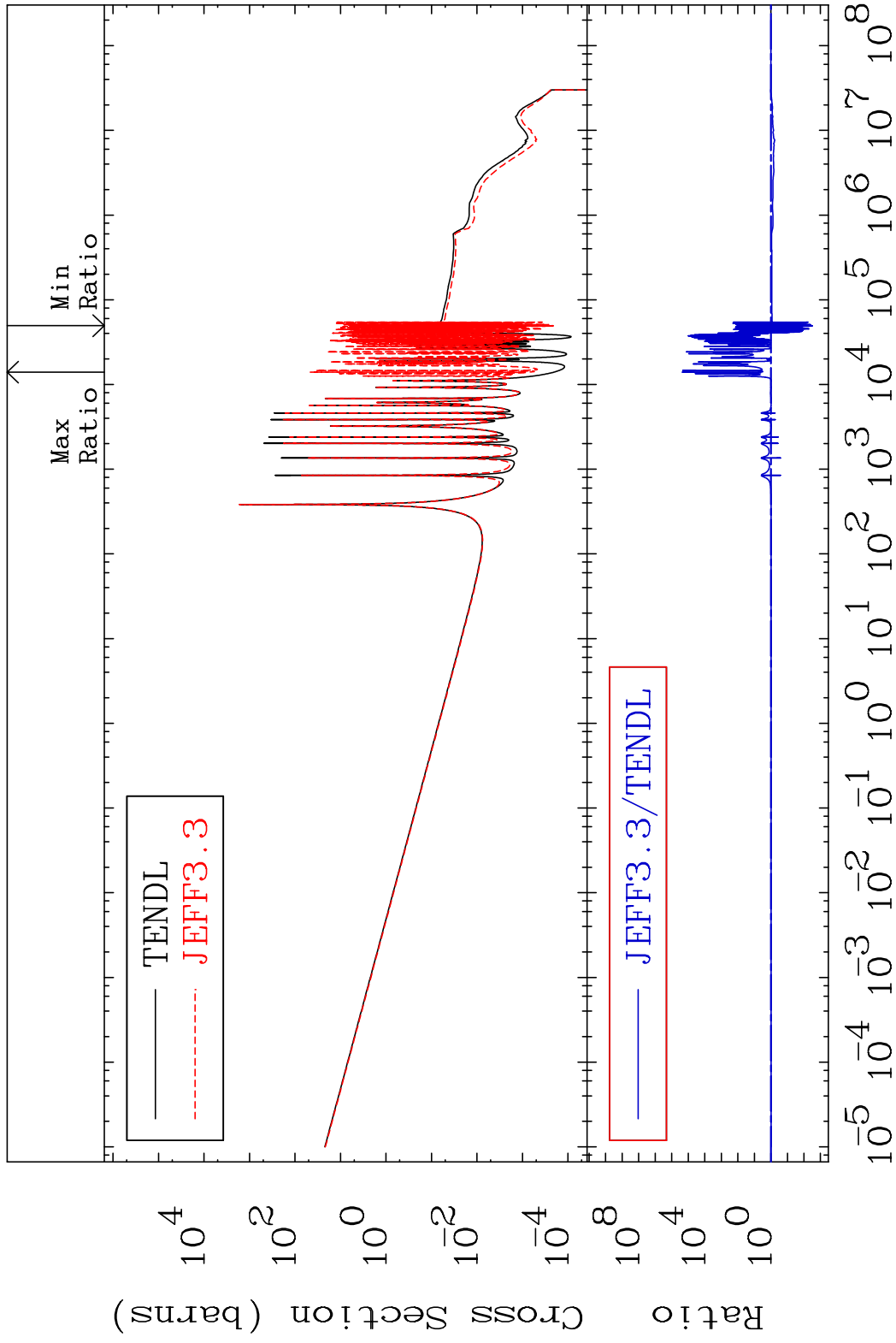


MAT 3437

(n,  $\gamma$ )

34-Se-78

Cross Section -99.70 To 9999. %



50

Incident Energy (eV)

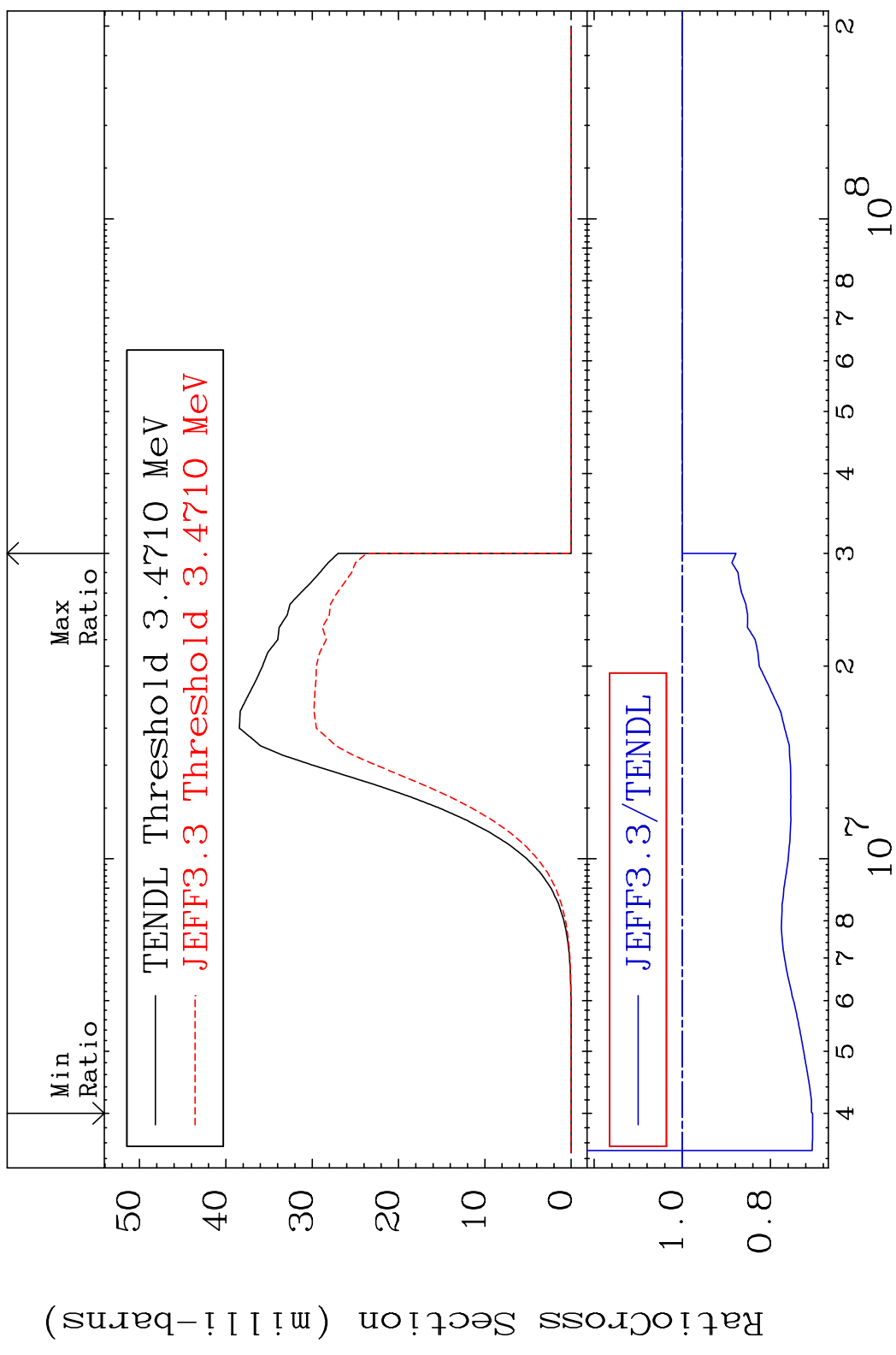
34-Se-78

MAT 3437

(n,p)

34-Se-78

Cross Section -29.55 To 0.000 %

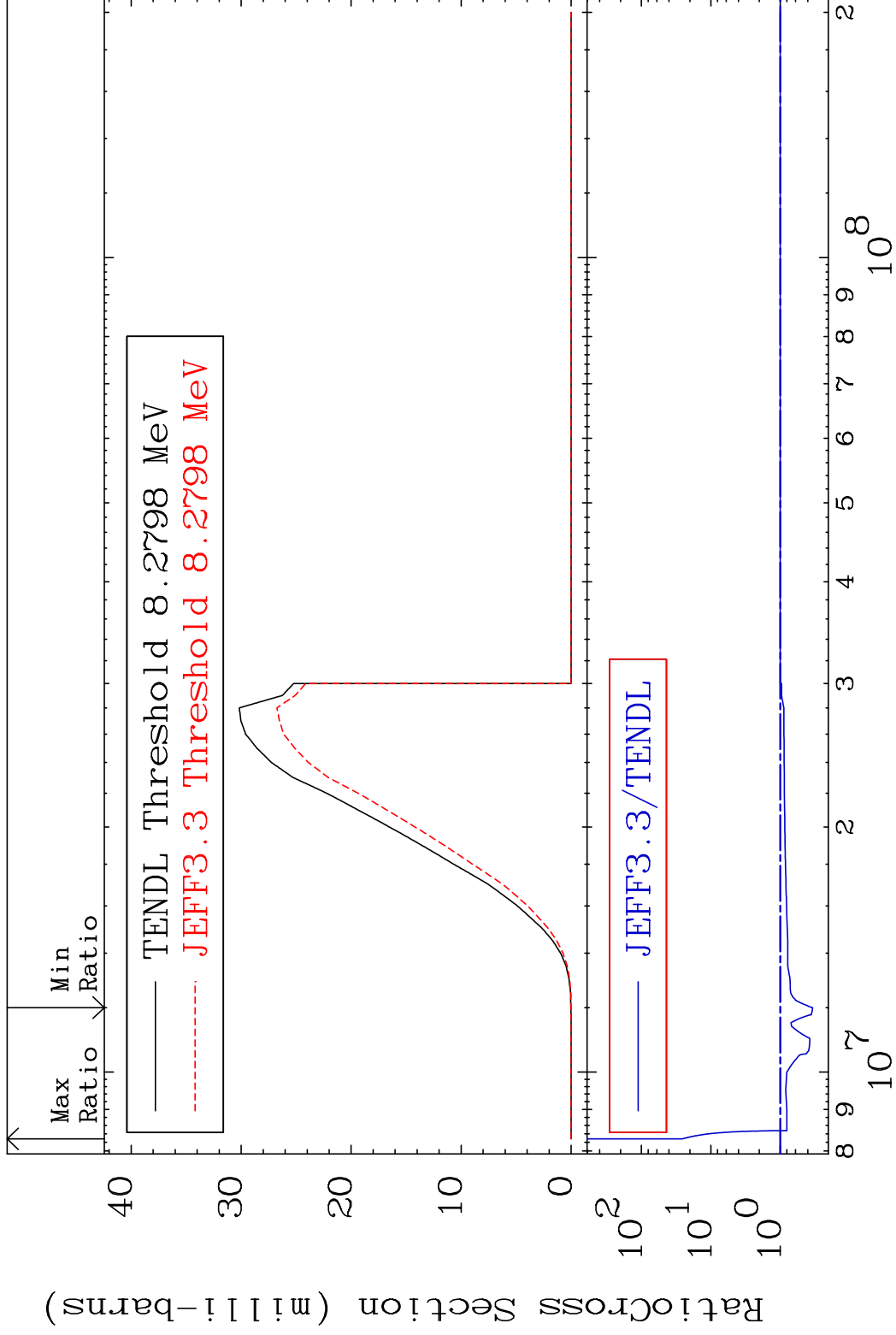


MAT 3437

(n, d)

<sup>34</sup>Se-78

Cross Section -65.81 To 2470. %



52

Incident Energy (eV)

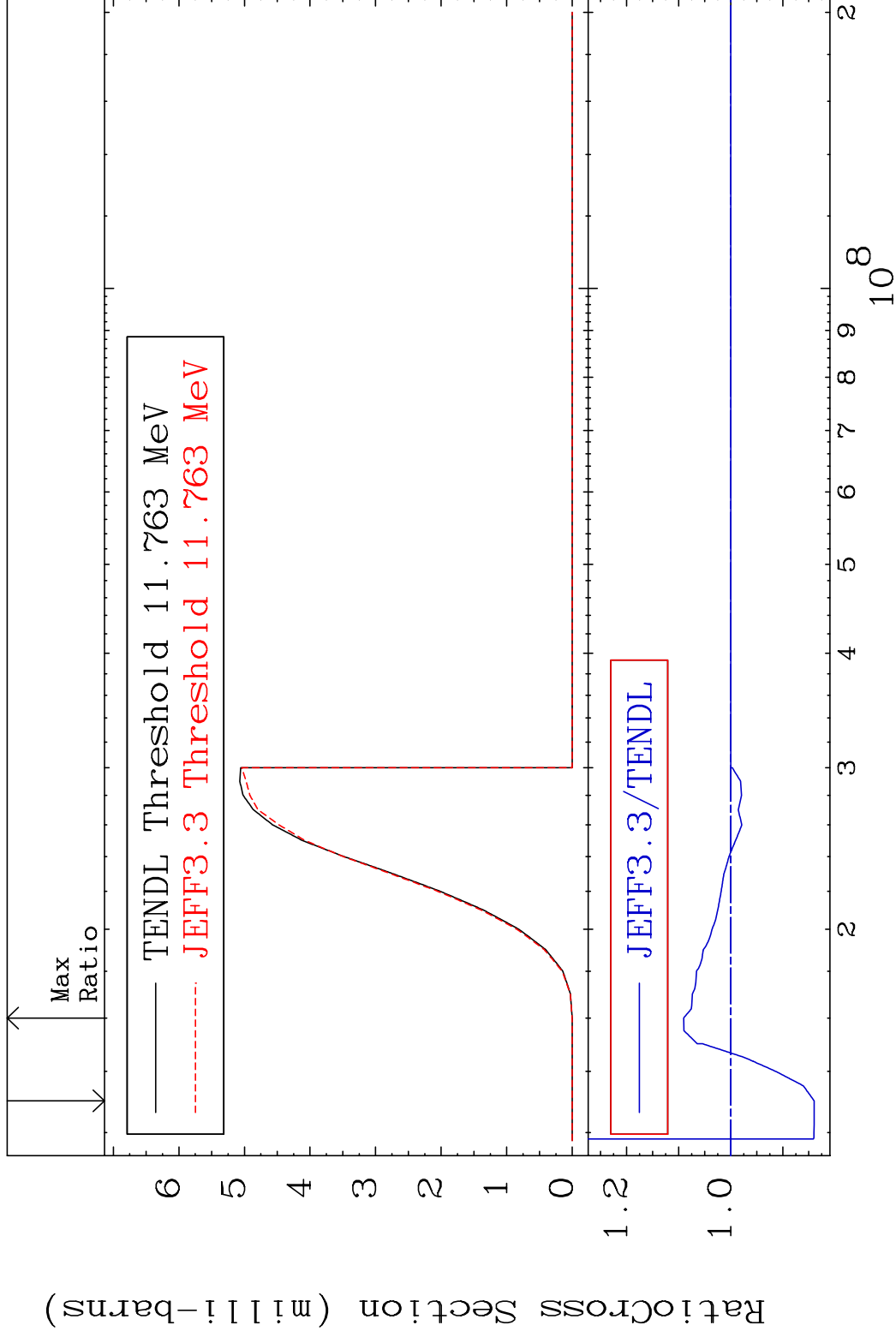
<sup>34</sup>Se-78

MAT 3437

(n, t)

<sup>34</sup>Se-78

Cross Section -16.02 To 9.041 %



53

Incident Energy (eV)

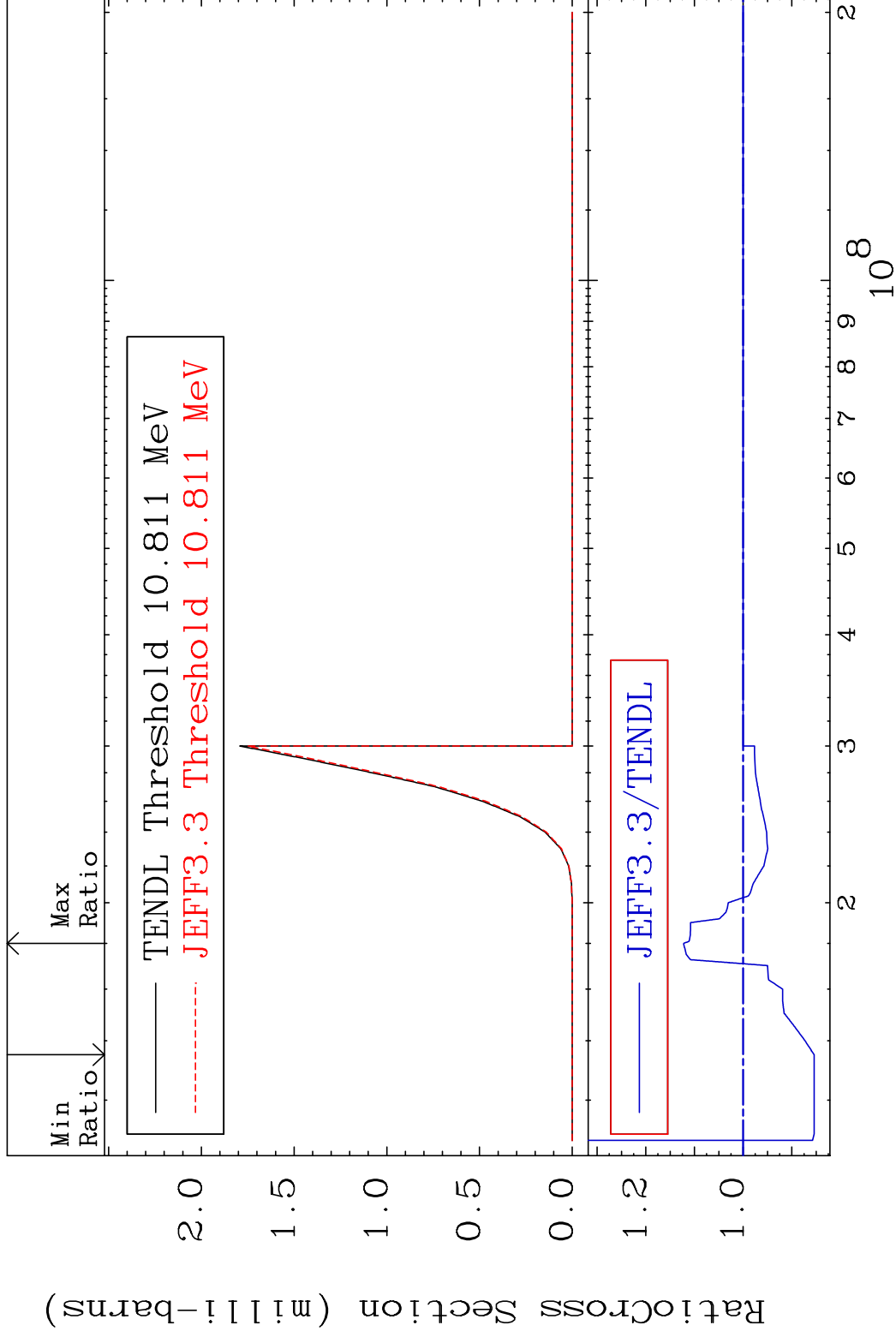
<sup>34</sup>Se-78

MAT 3437

(n, He-3)

34-Se-78

Cross Section -14.58 To 12.22 %

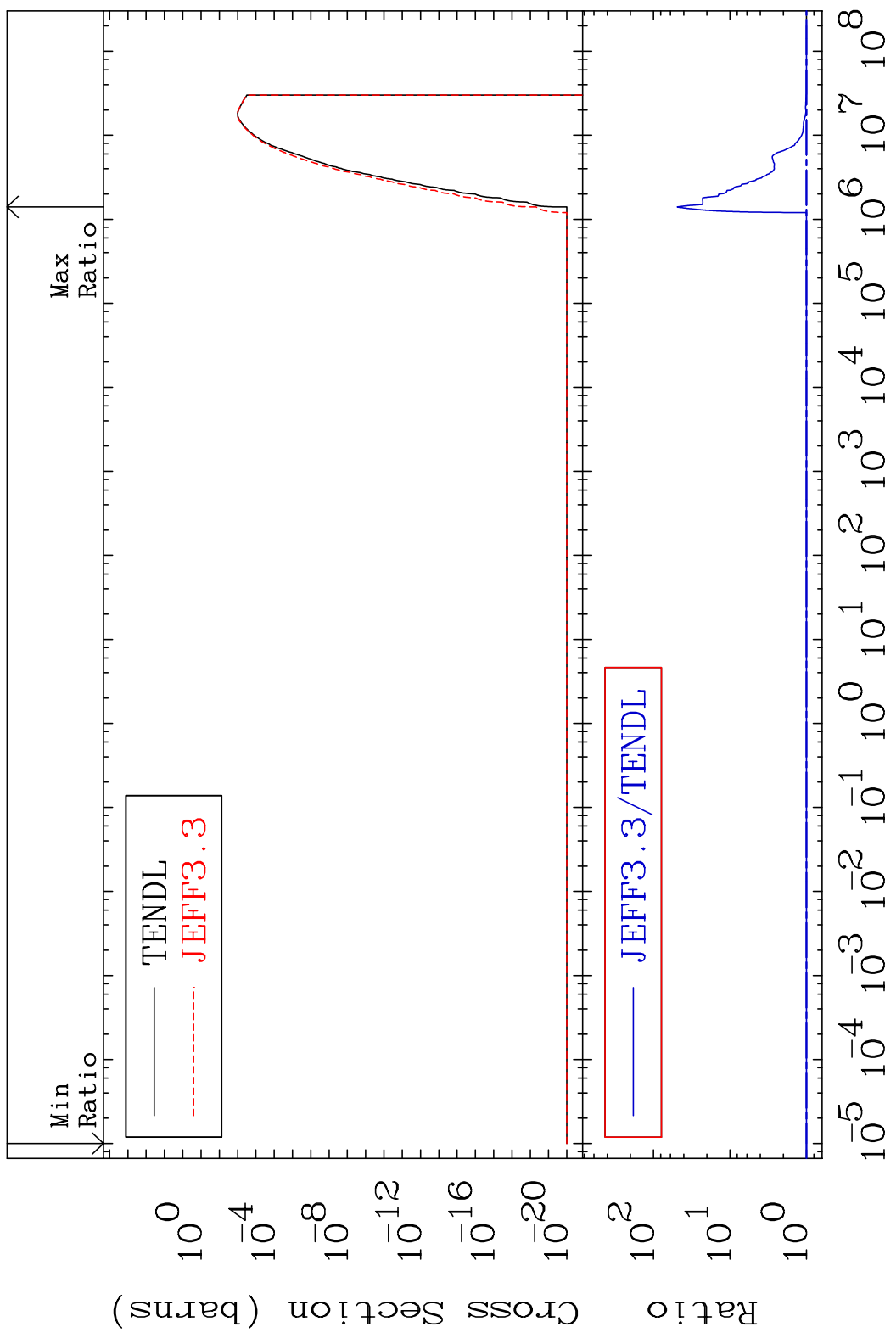


MAT 3437

(n,  $\alpha$ )

34-Se-78

Cross Section 0.000 To 4785. %



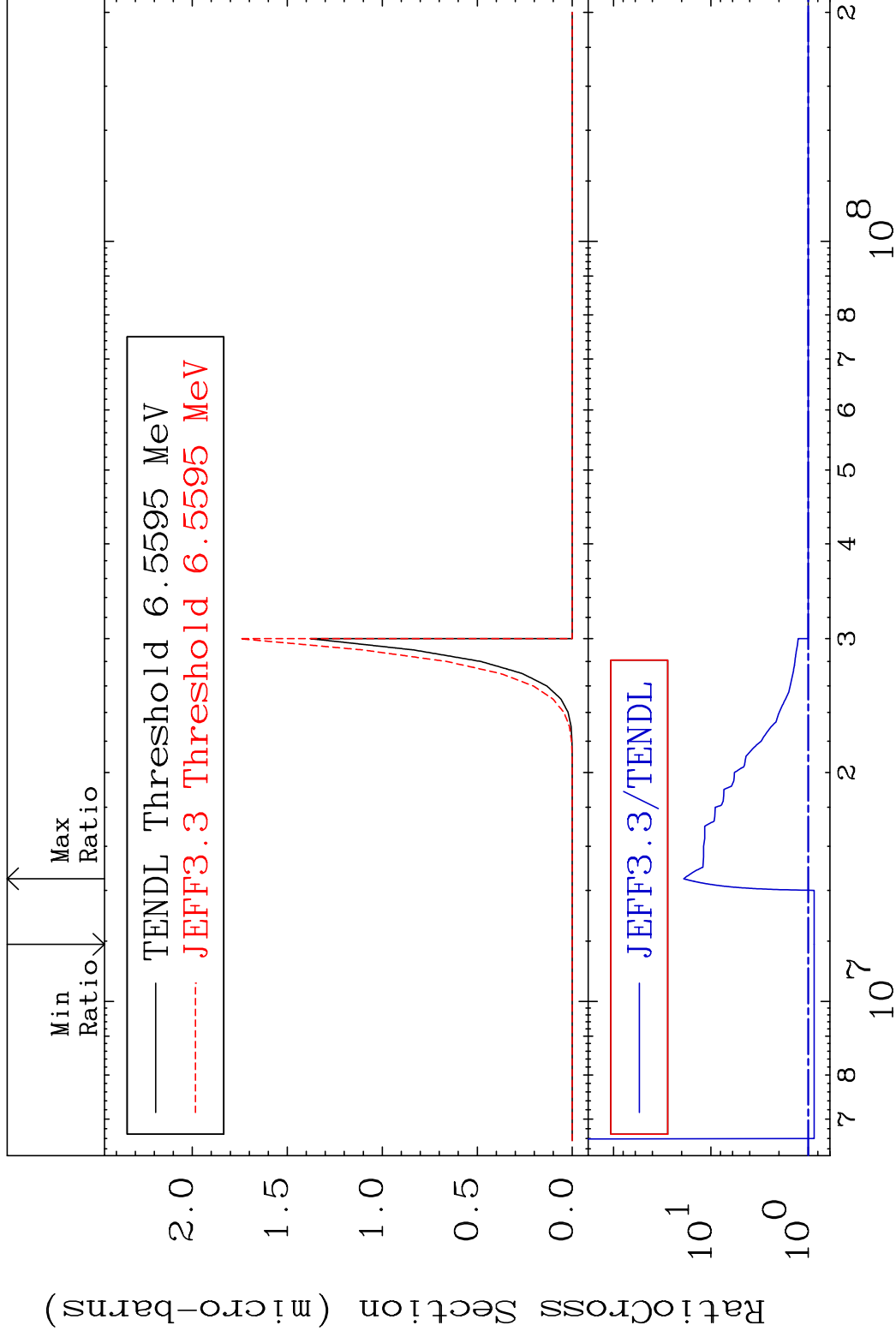


MAT 3437

(n,2α)

34-Se-78

Cross Section -12.89 To 1808. %



56

Incident Energy (eV)

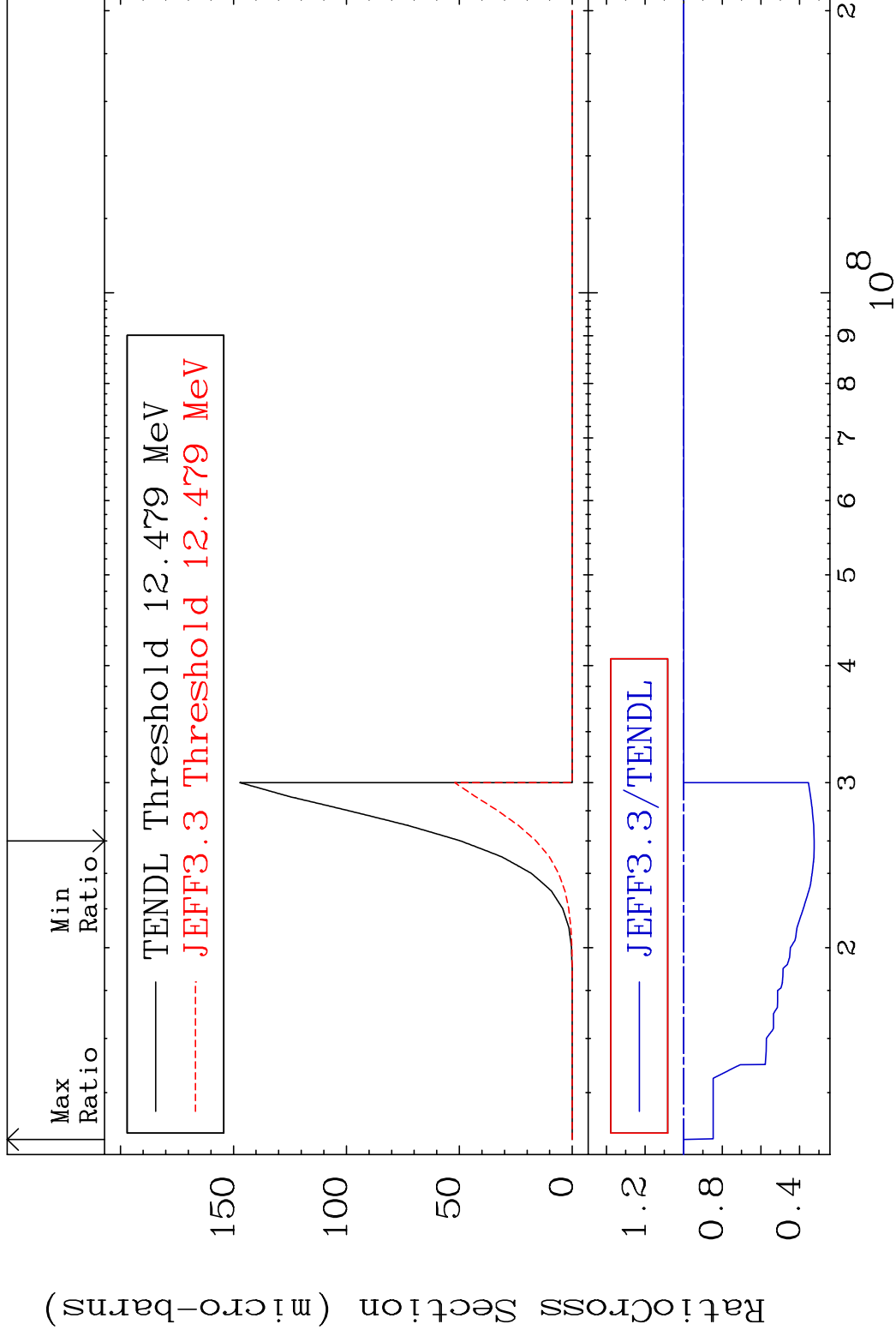
34-Se-78

MAT 3437

(n,2p)

34-Se-78

Cross Section -67.53 To 0.000 %

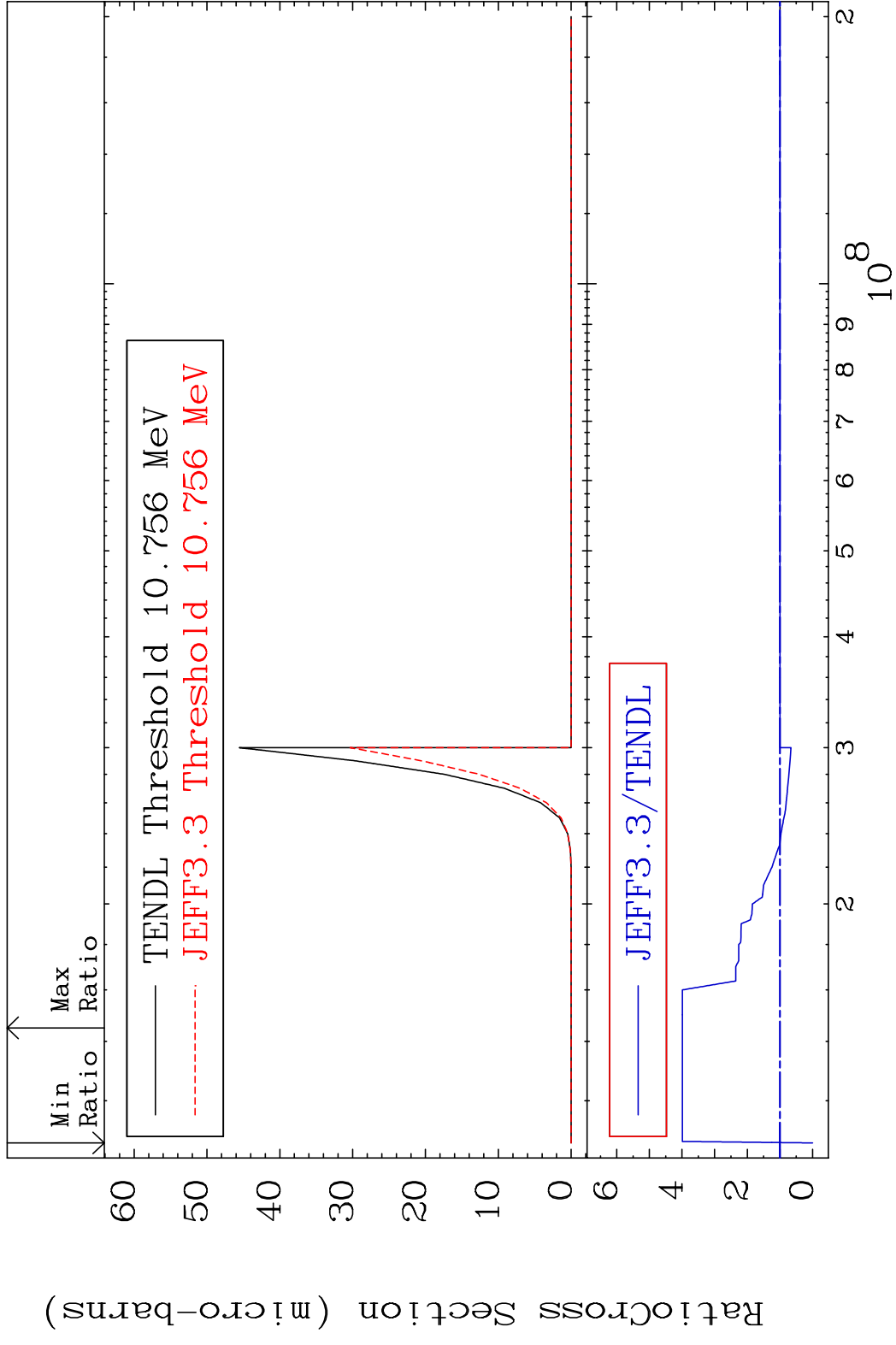


57

Incident Energy (eV)

34-Se-78

MAT 3437 (n,p)  $\alpha$  34-Se-78  
 Cross Section -100.0 To 299.0 %



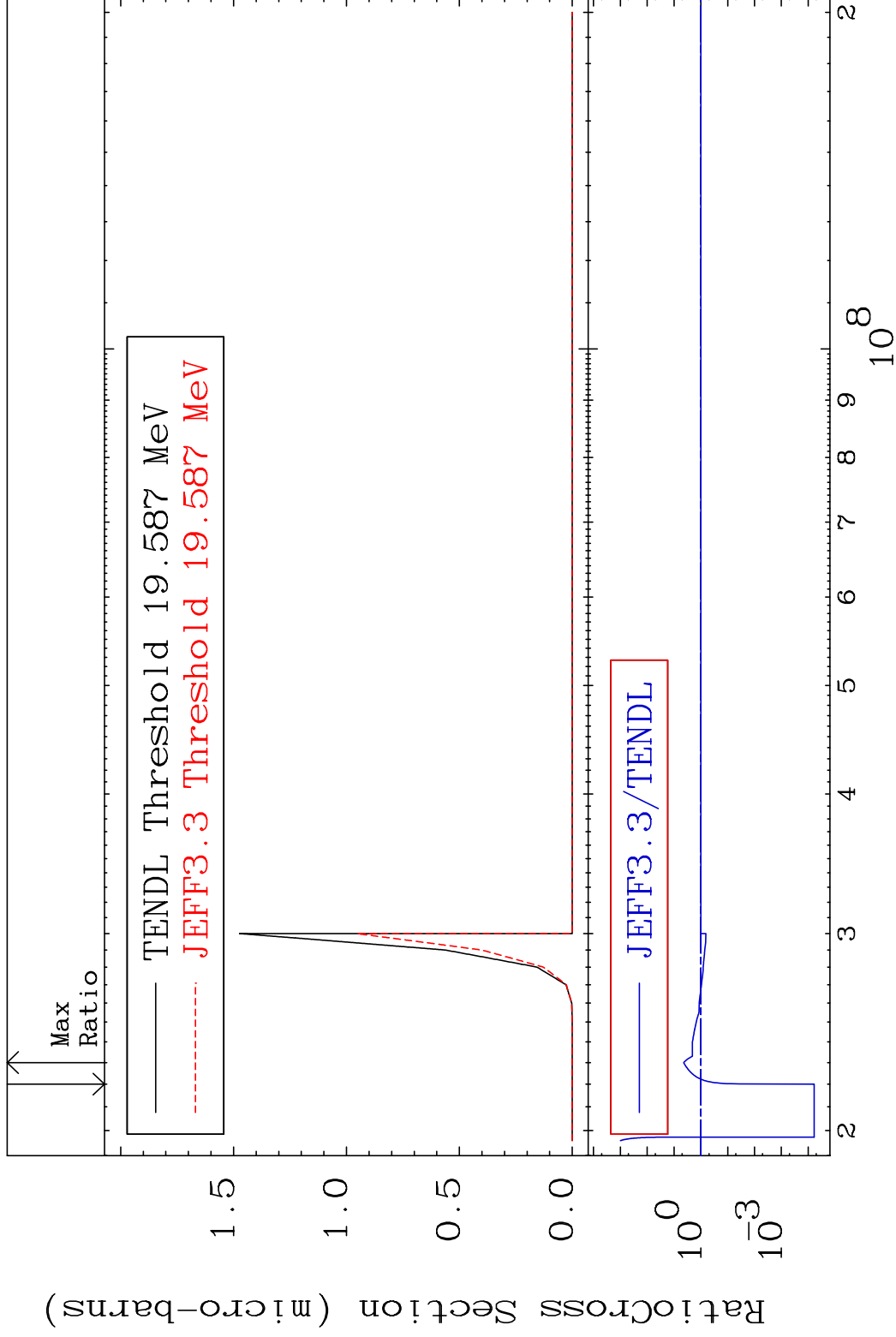


MAT 3437

(n,p) t

<sup>34</sup>Se-78

Cross Section -99.99 To 338.1 %



60

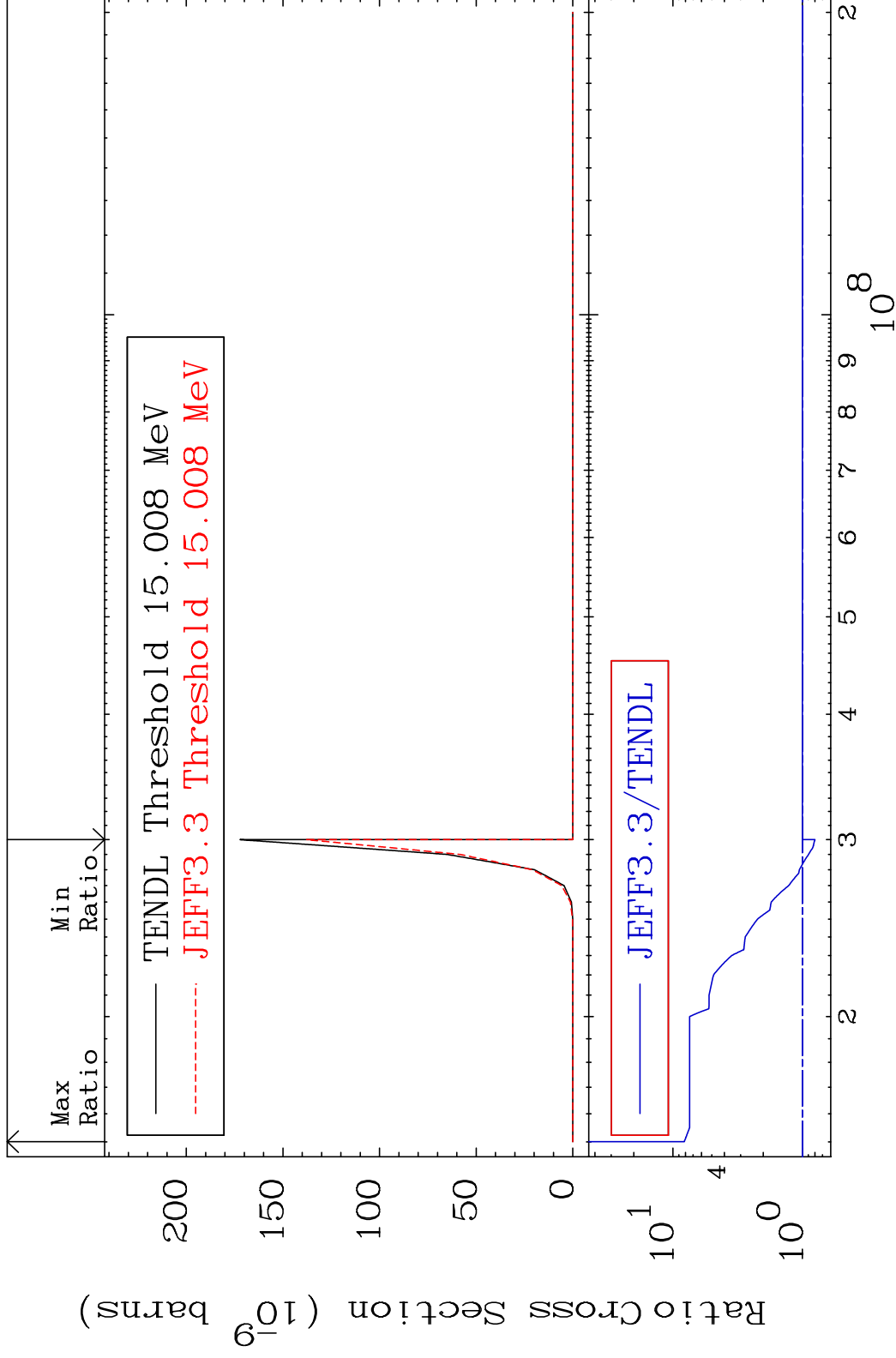
Incident Energy (eV) <sup>34</sup>Se-78

MAT 3437

(n,d)  $\alpha$

<sup>34</sup>Se-78

Cross Section -20.01 To 715.9 %



61

Incident Energy (eV)

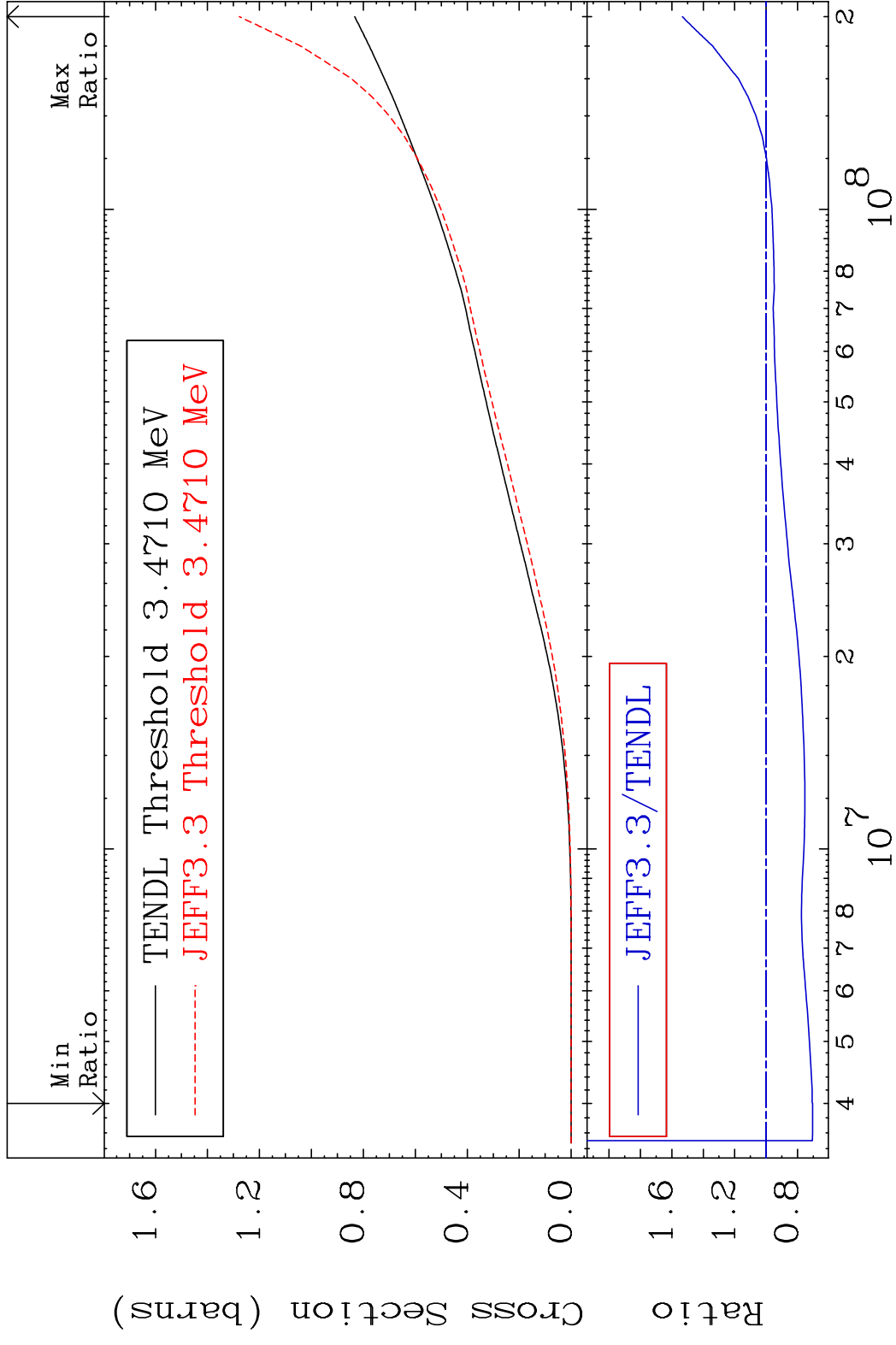
<sup>34</sup>Se-78

MAT 3437

Hydrogen Production

<sup>34</sup>Se-78

Cross Section -29.55 To 53.31 %

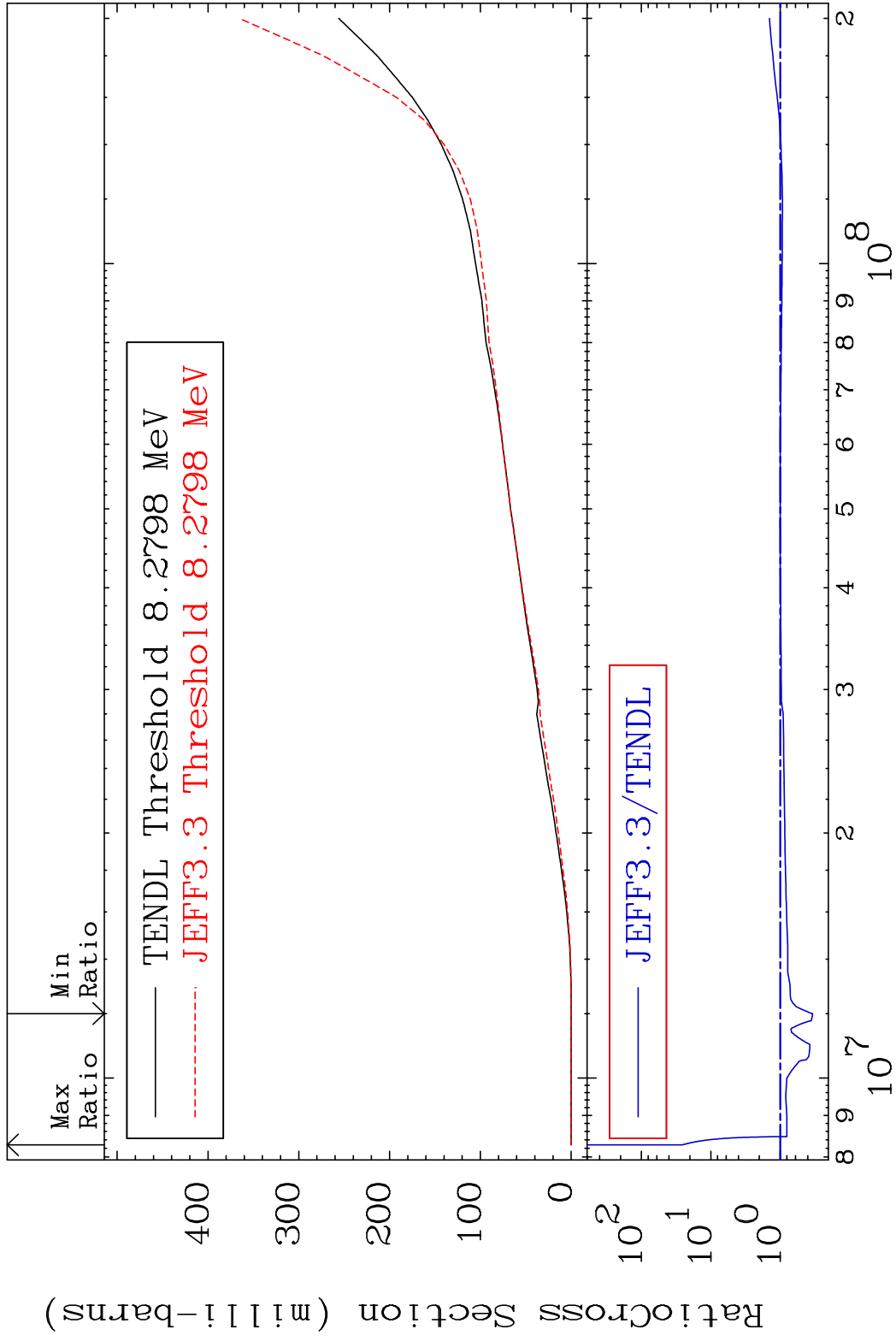


MAT 3437

Deuterium Production

<sup>34</sup>Se-78

Cross Section -65.81 To 2470. %



63

Incident Energy (eV)

<sup>34</sup>Se-78

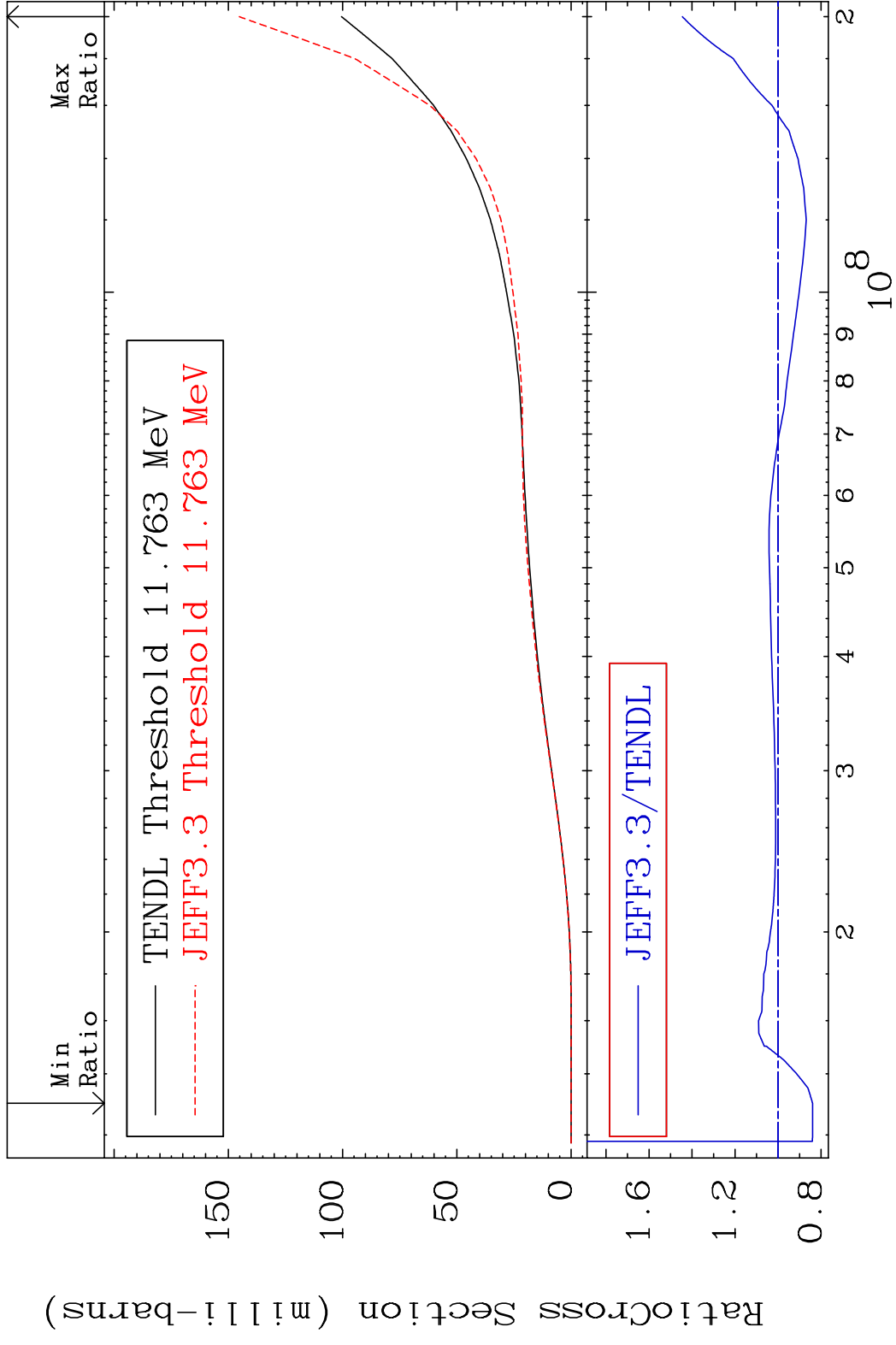


MAT 3437

Tritium Production

34-Se-78

Cross Section -16.02 To 44.51 %

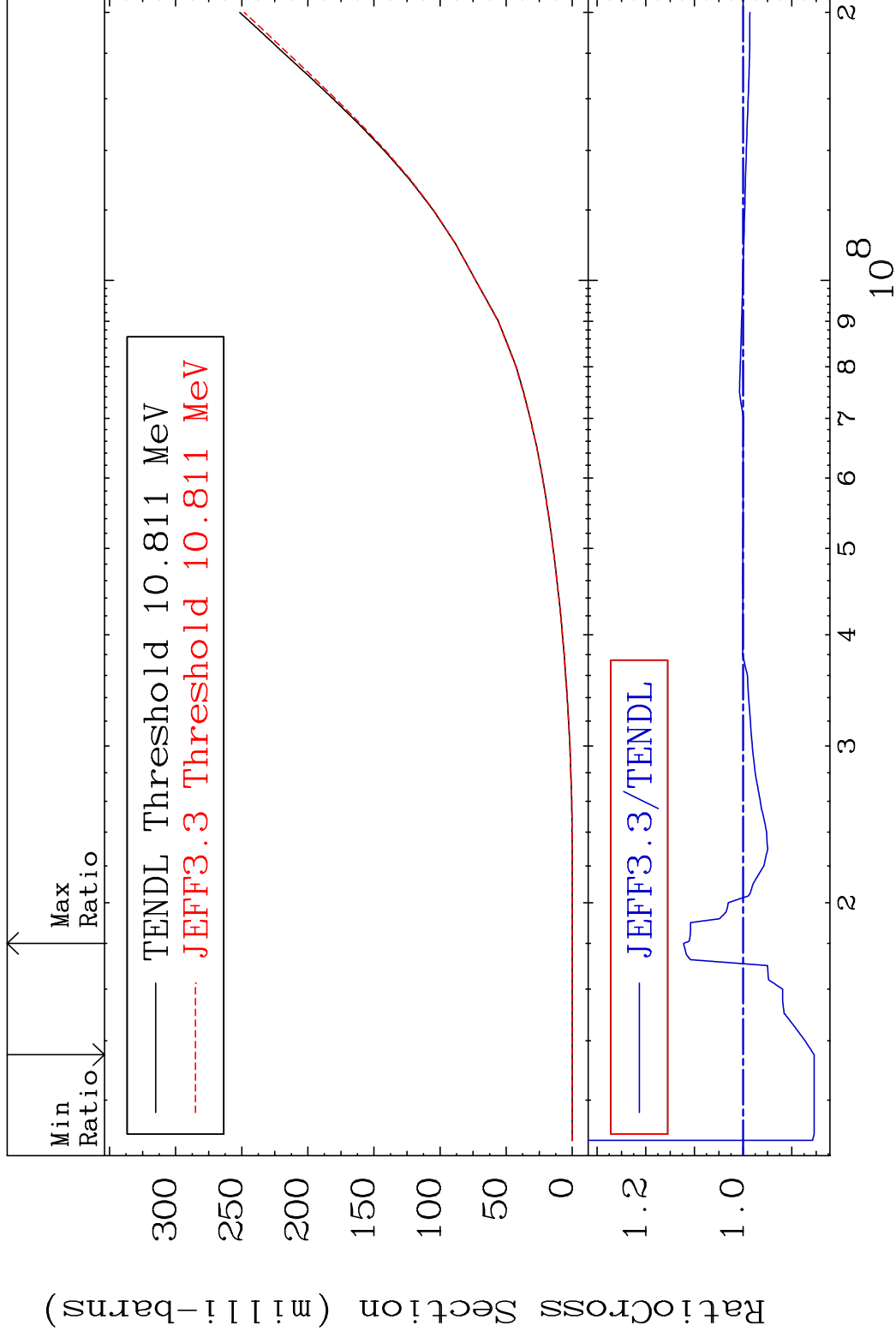


MAT 3437

He-3 Production

<sup>34</sup>Se-78

Cross Section -14.58 To 12.22 %



65

Incident Energy (eV)

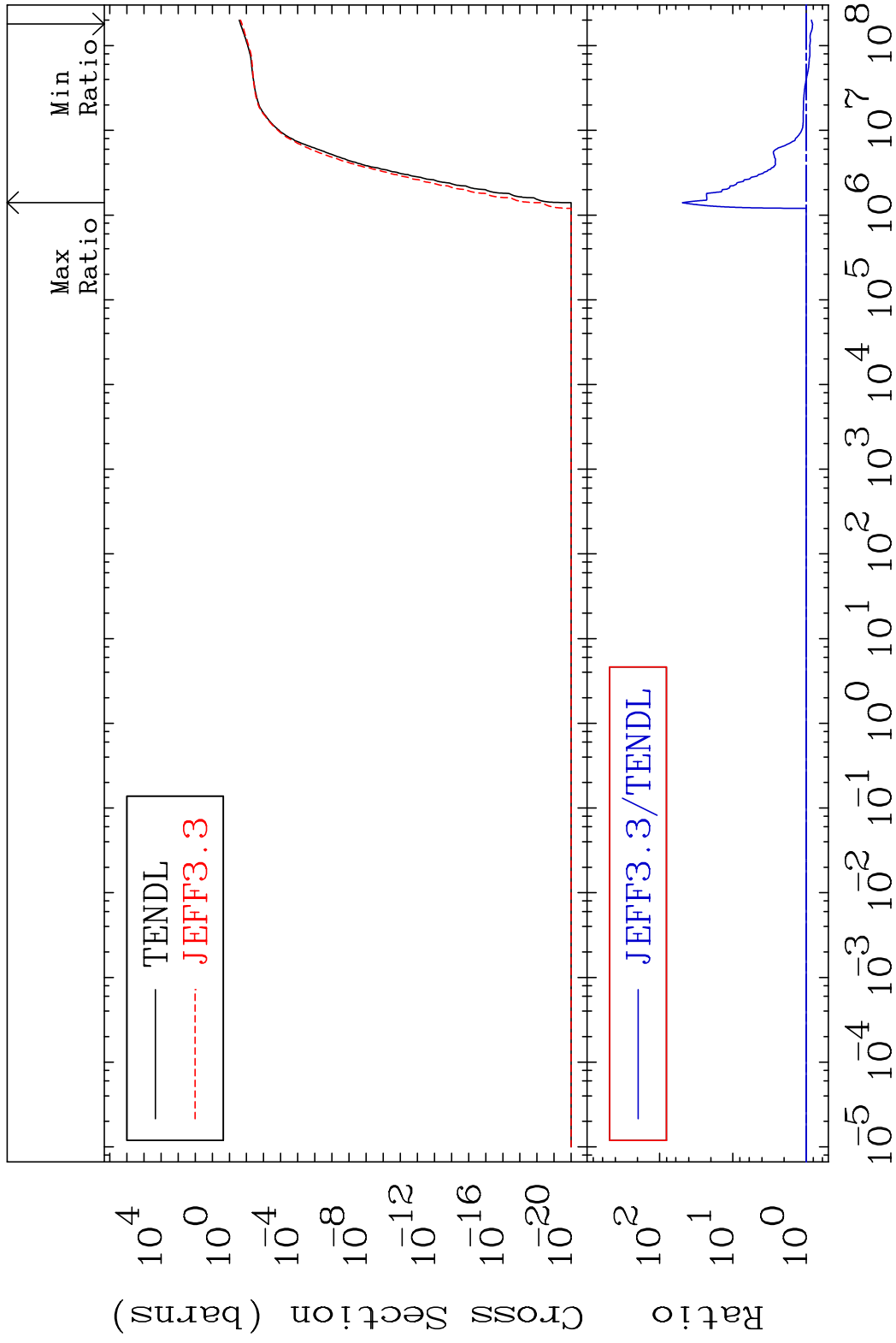
<sup>34</sup>Se-78

MAT 3437

He-4 Production

34-Se-78

Cross Section -18.12 To 4785. %



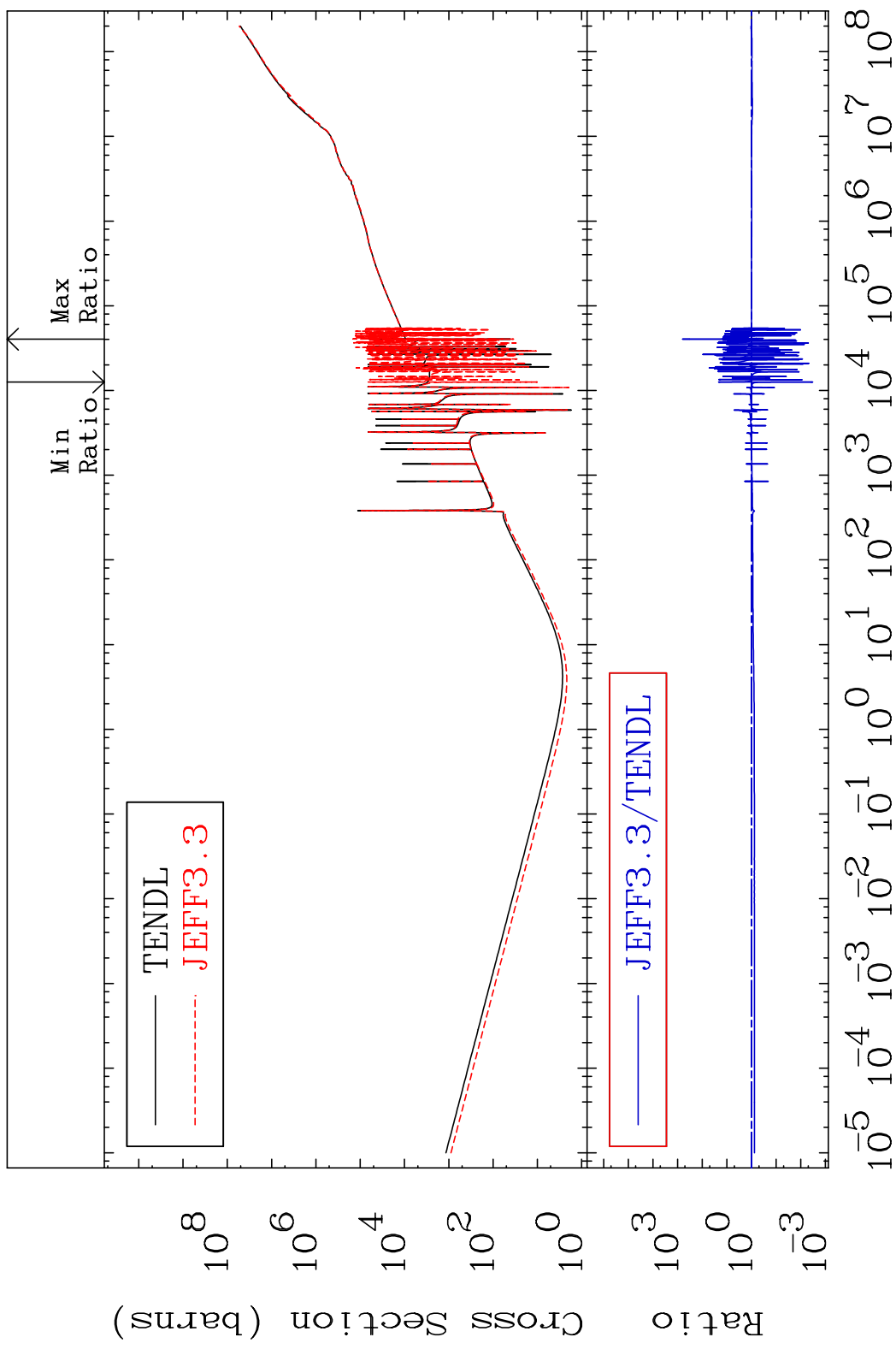
66

Incident Energy (eV)

34-Se-78

MAT 3437

Kerma total (eV-barns) 34-Se-78  
Cross Section -99.67 To 9999. %



67

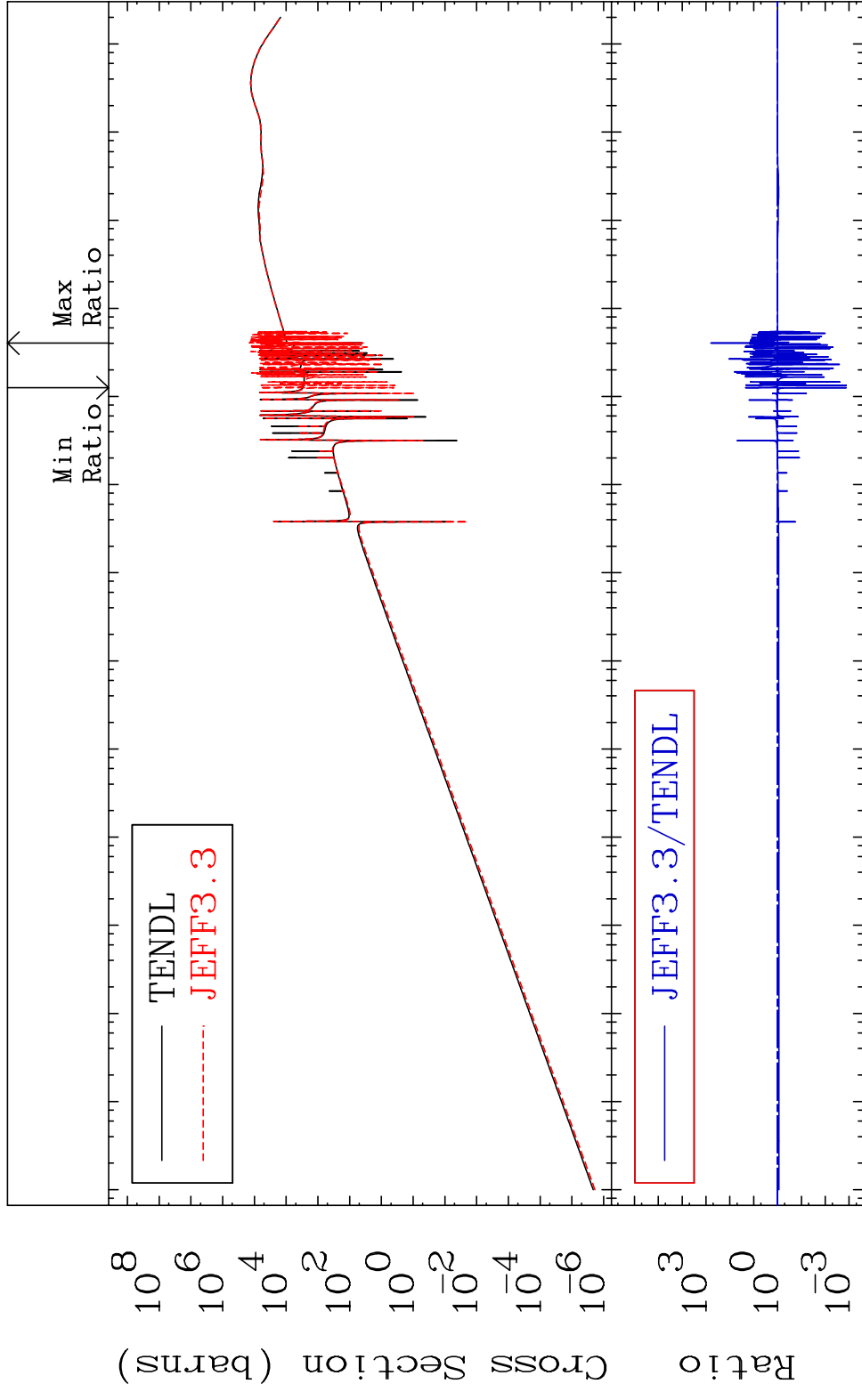
Incident Energy (eV)

34-Se-78

MAT 3437

Kerma elastic  
Cross Section

34-Se-78  
-99.87 To 9999. %

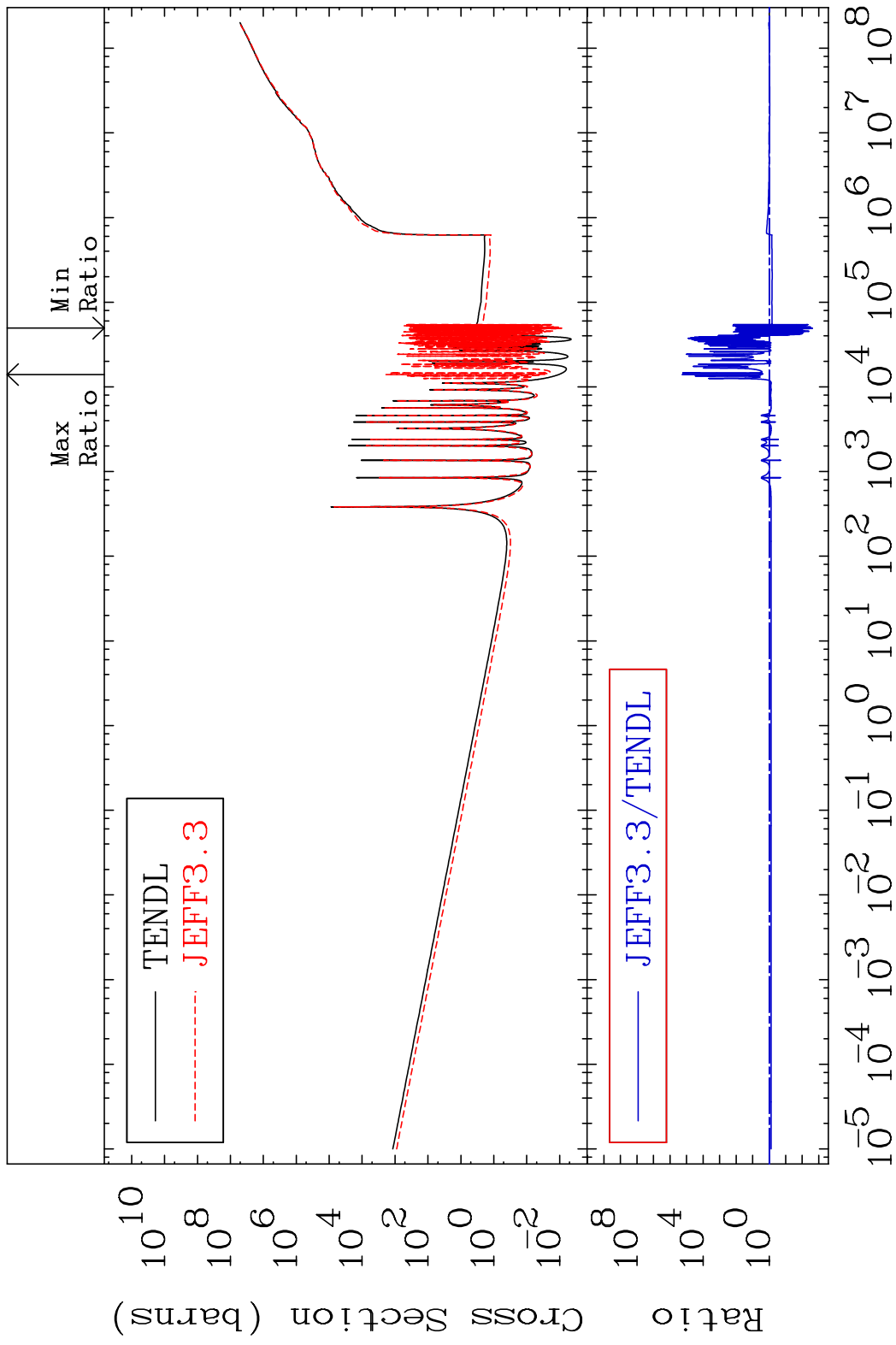


68

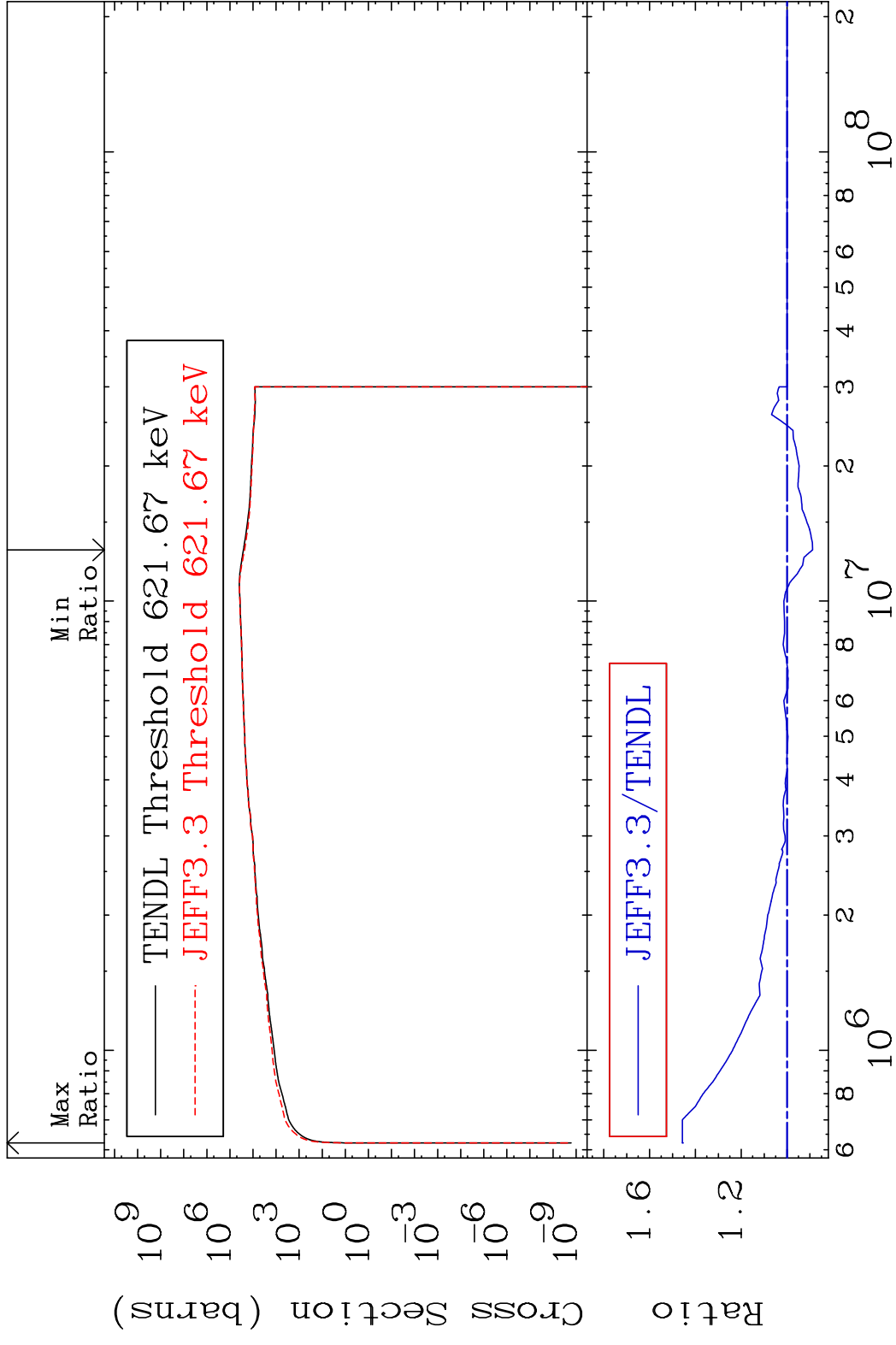
Incident Energy (eV)

34-Se-78

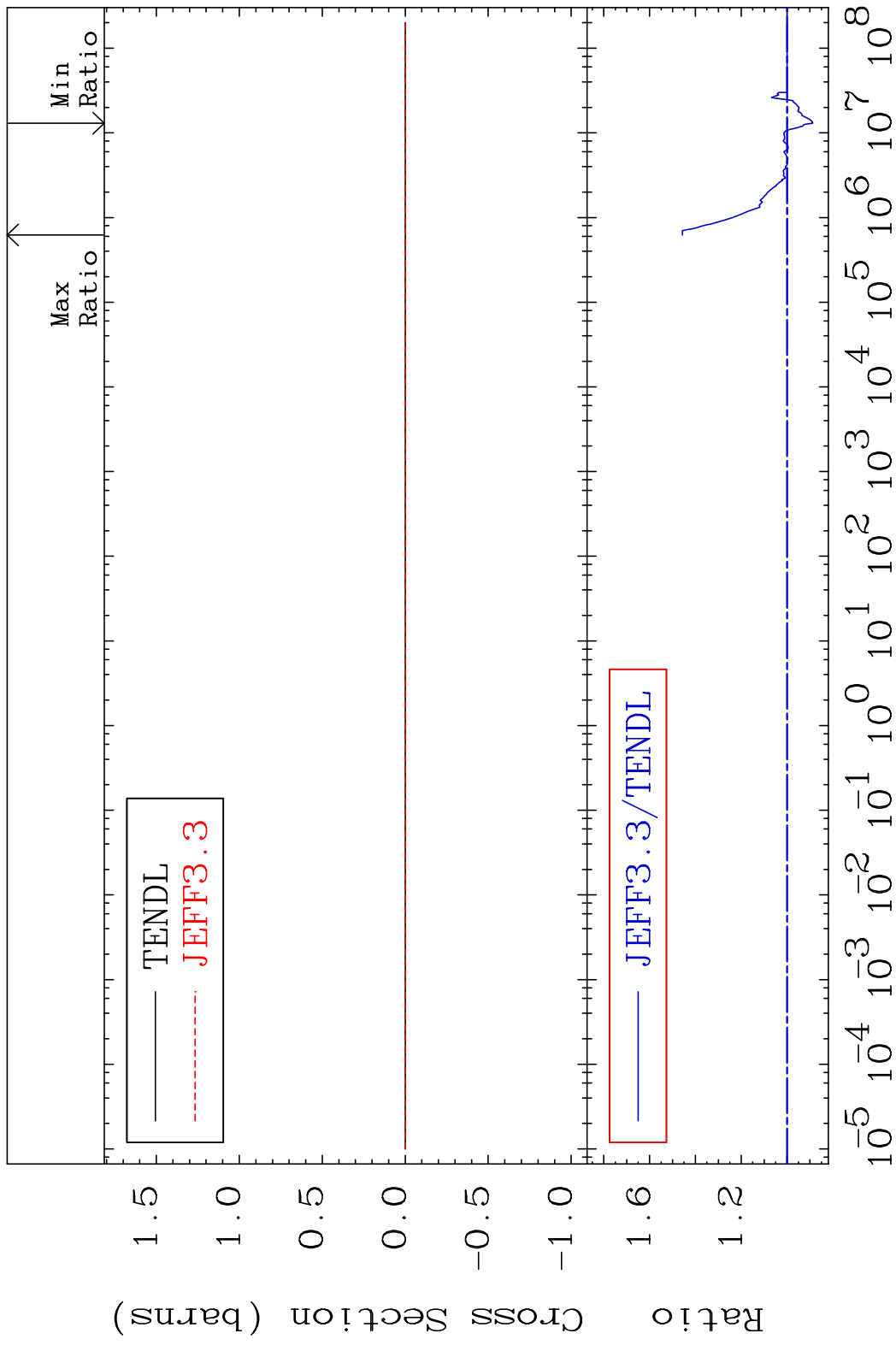
MAT 3437 Kerma non-elastic (all but mt2) 34-Se-78  
 Cross Section -99.76 To 9999. %



MAT 3437 Kerma inelastic (mt51-91) 34-Se-78  
 Cross Section -11.13 To 45.71 %



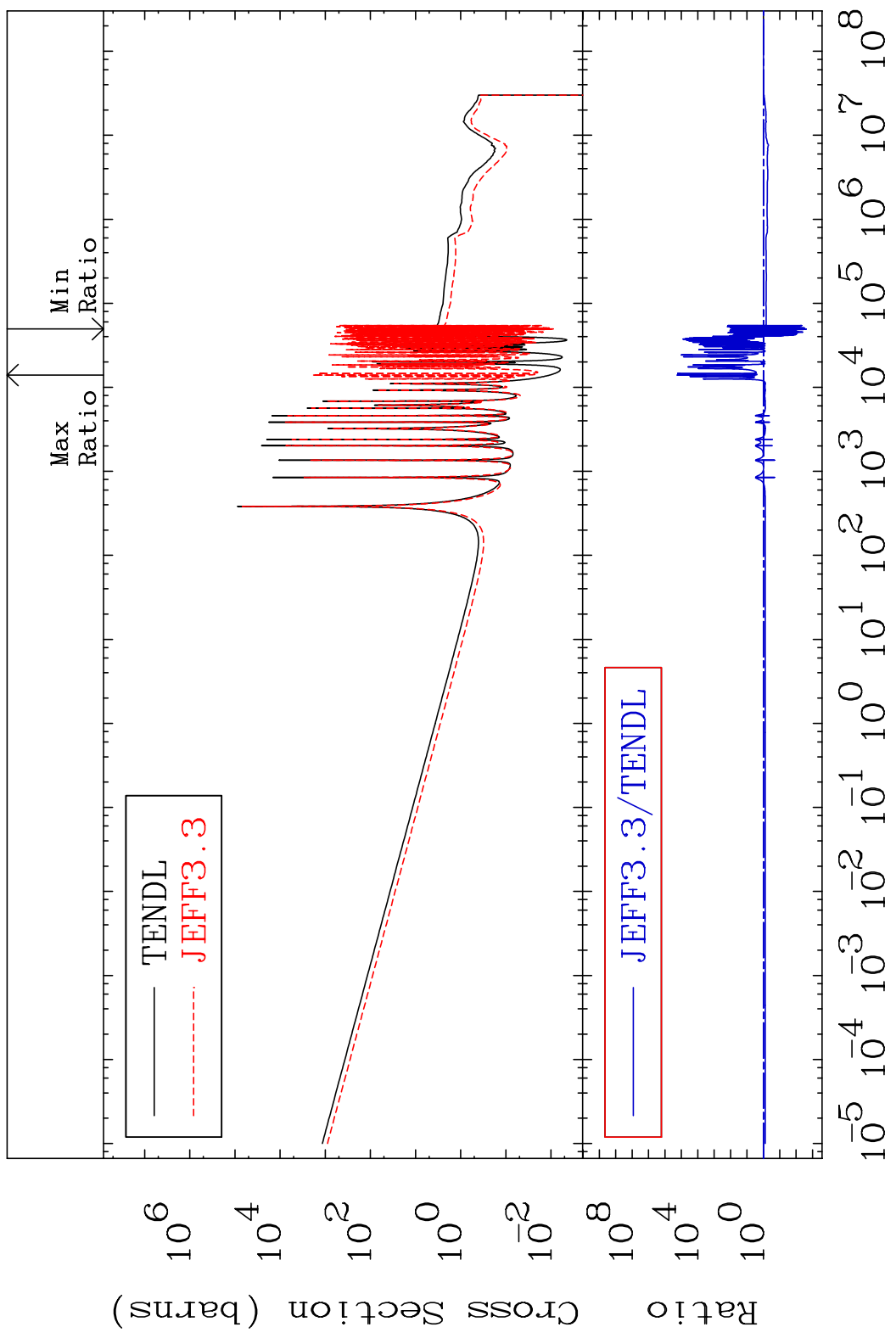
MAT 3437 Kerma fission (mt18 or mt19-20-21-38) 34-Se-78  
 Cross Section -11.13 To 45.71 %





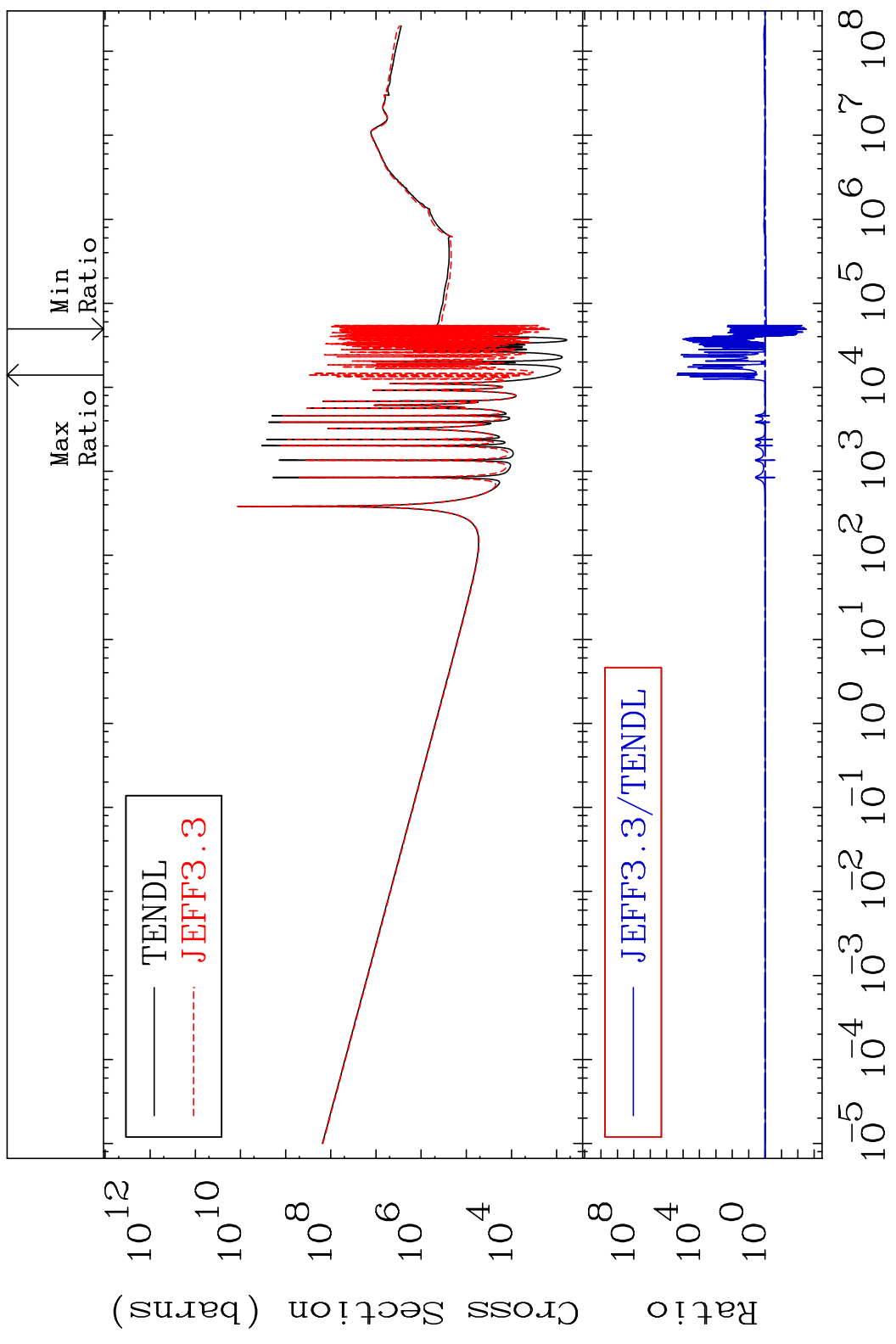
MAT 3437

Kerma capture (mt102) 34-Se-78  
Cross Section -99.76 To 9999. %



MAT 3437

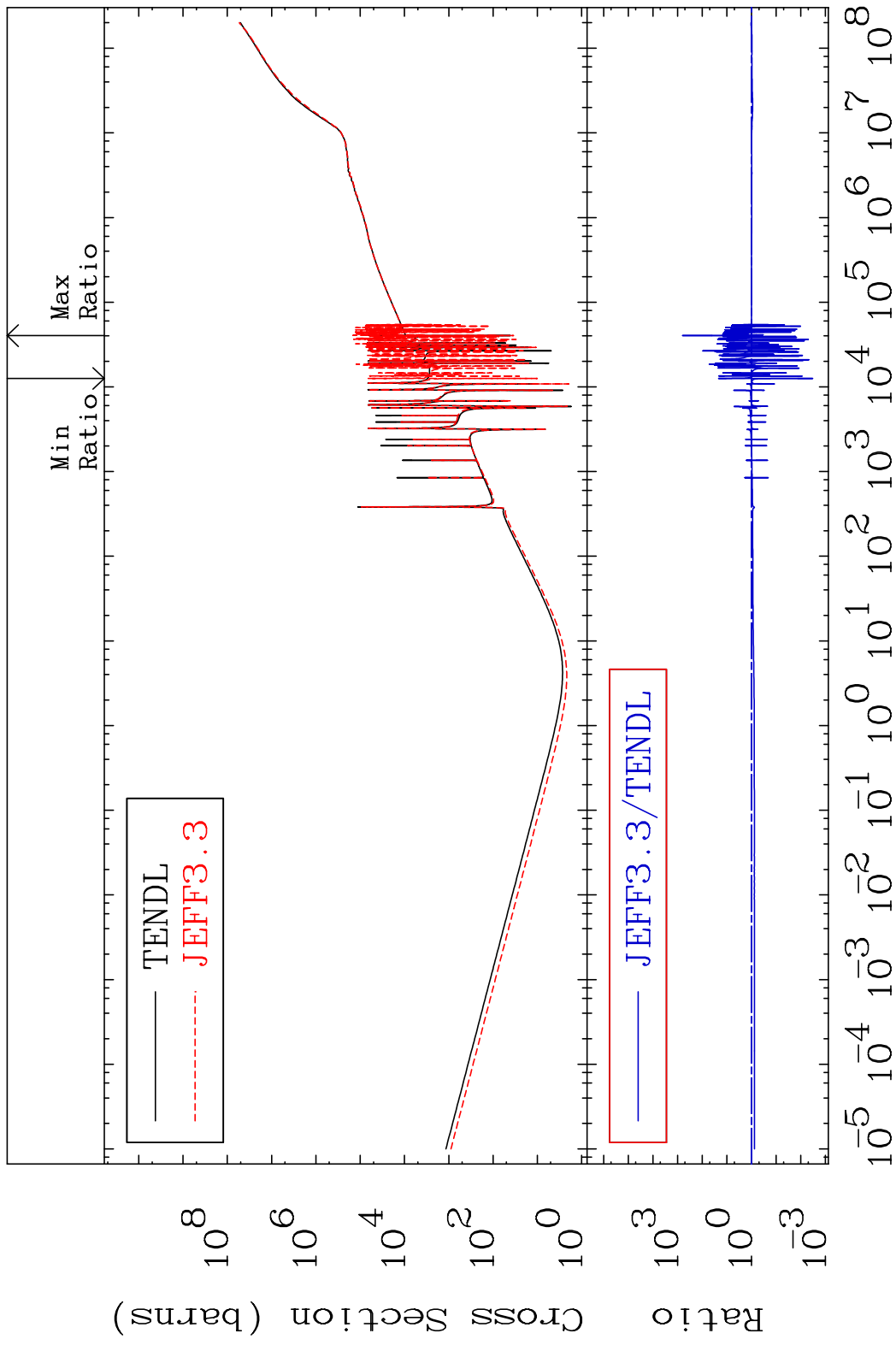
Total photon (eV-barns) 34-Se-78  
Cross Section -99.70 To 9999. %



73

Incident Energy (eV) 34-Se-78

MAT 3437 Total kinematic kerma (high limit) 34-Se-78  
 Cross Section -99.67 To 9999. %

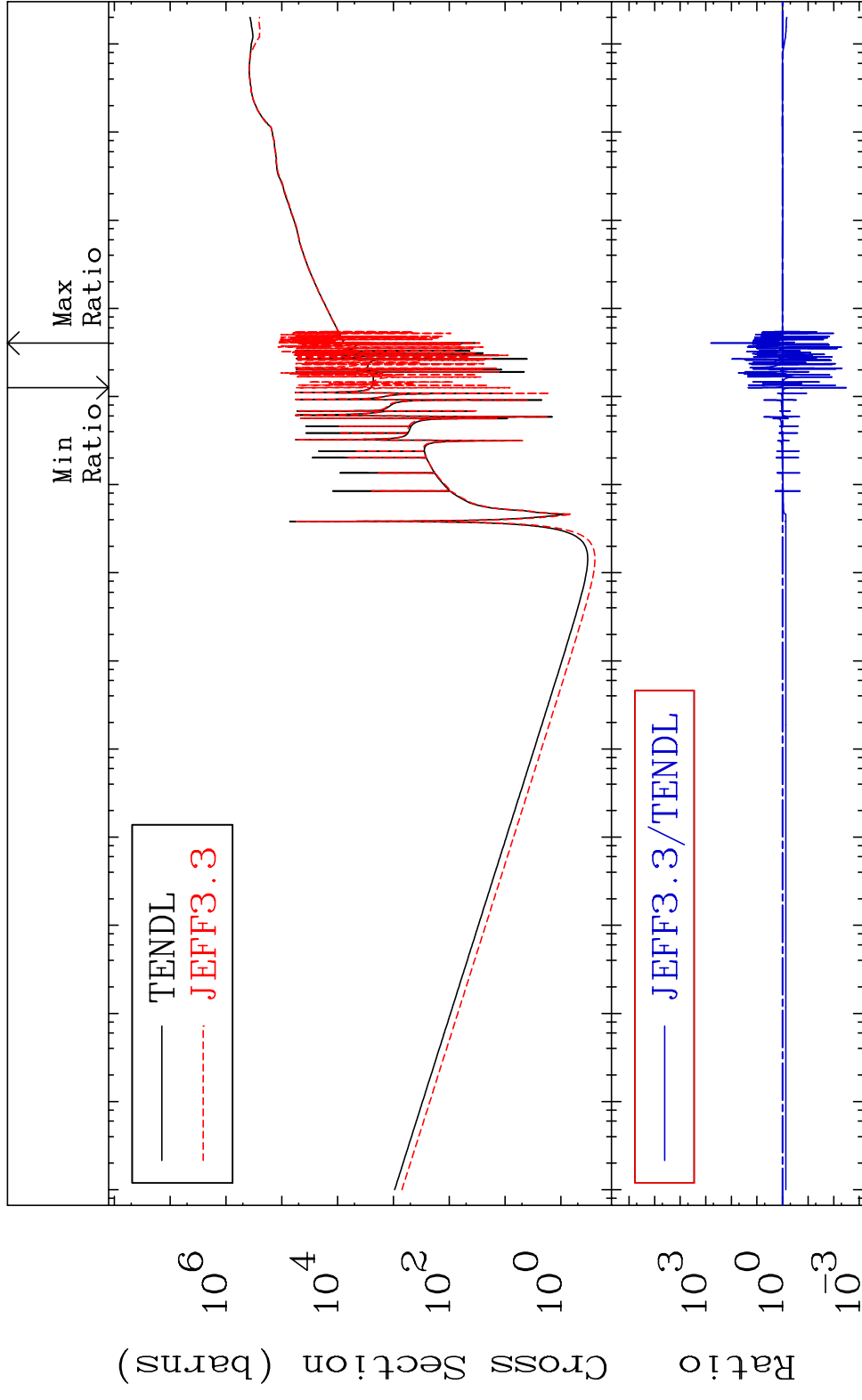


MAT 3437

Dpa total (eV-barns)

34-Se-78

Cross Section -99.68 To 9999. %



75

Incident Energy (eV)

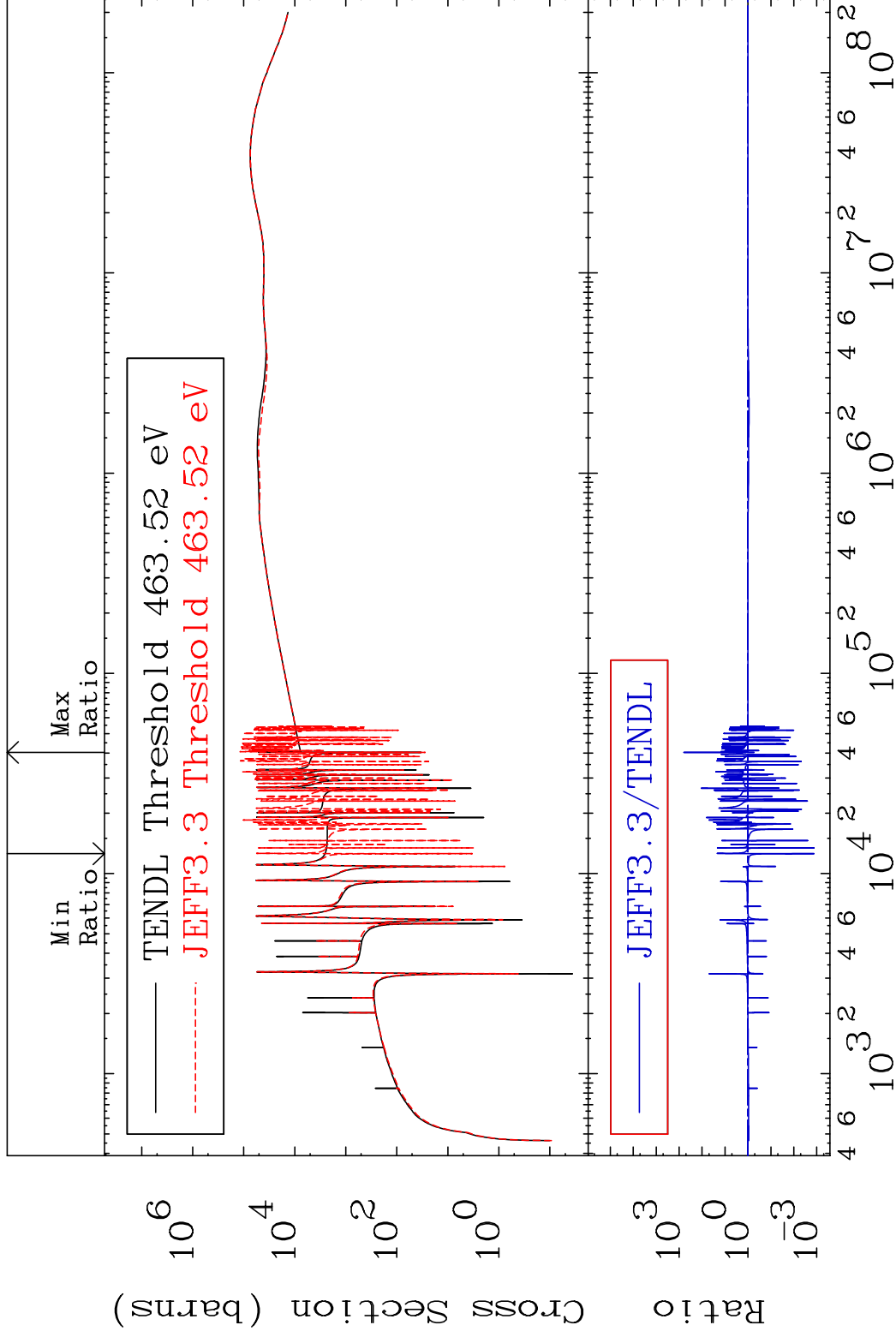
34-Se-78

MAT 3437

Dpa elastic (mt2)

34-Se-78

Cross Section -99.87 To 9999. %

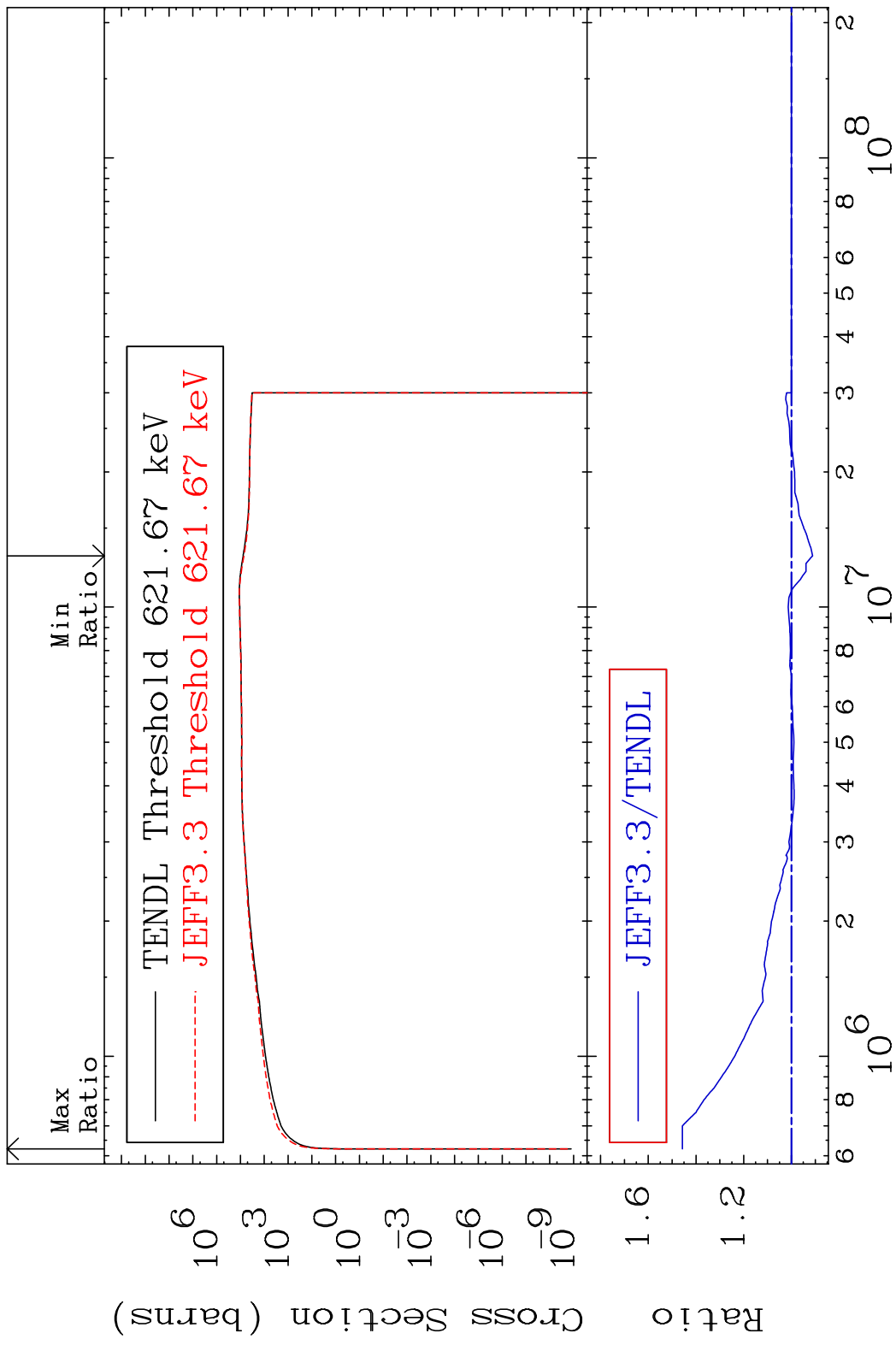


76

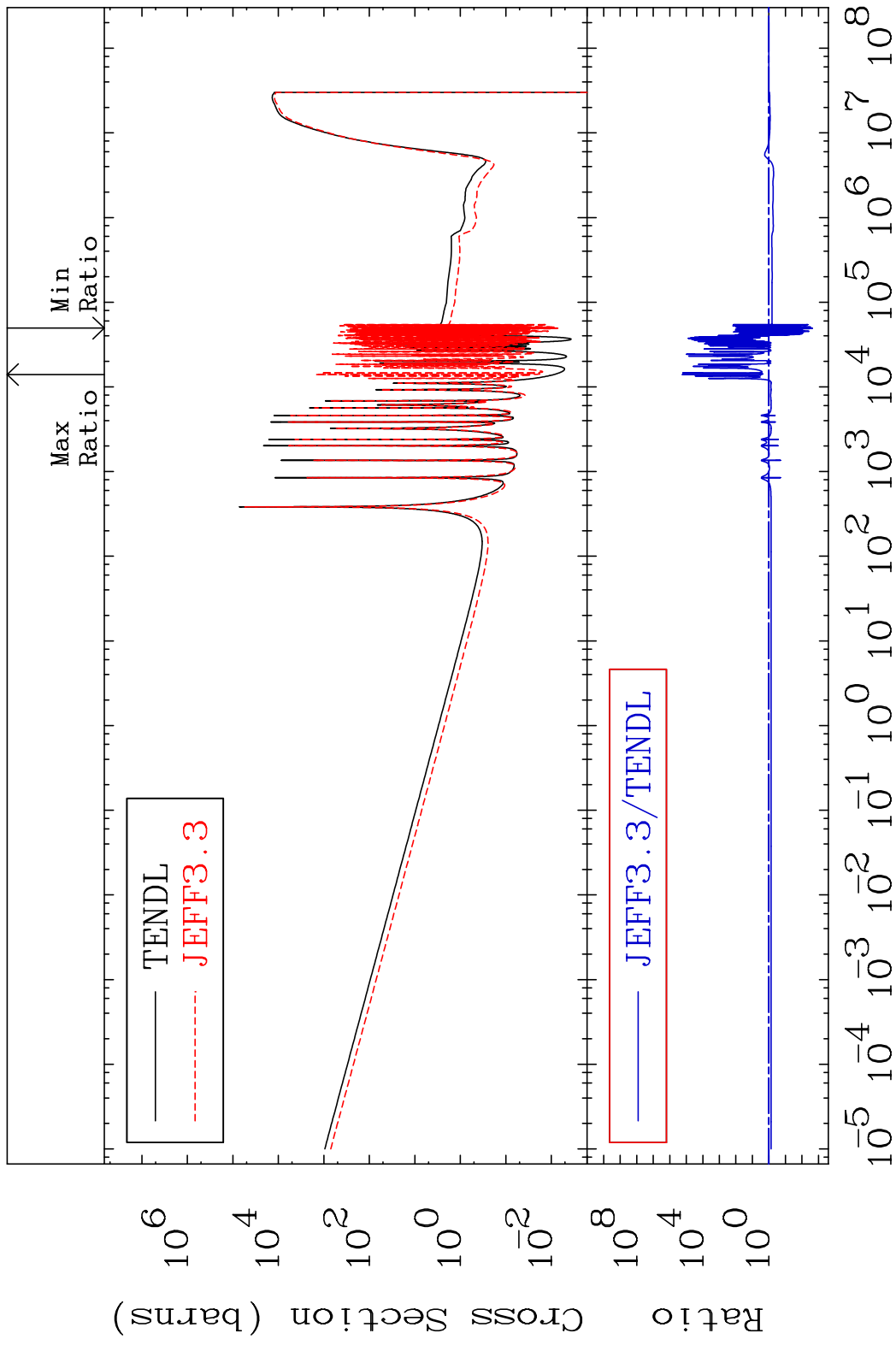
Incident Energy (eV)

34-Se-78

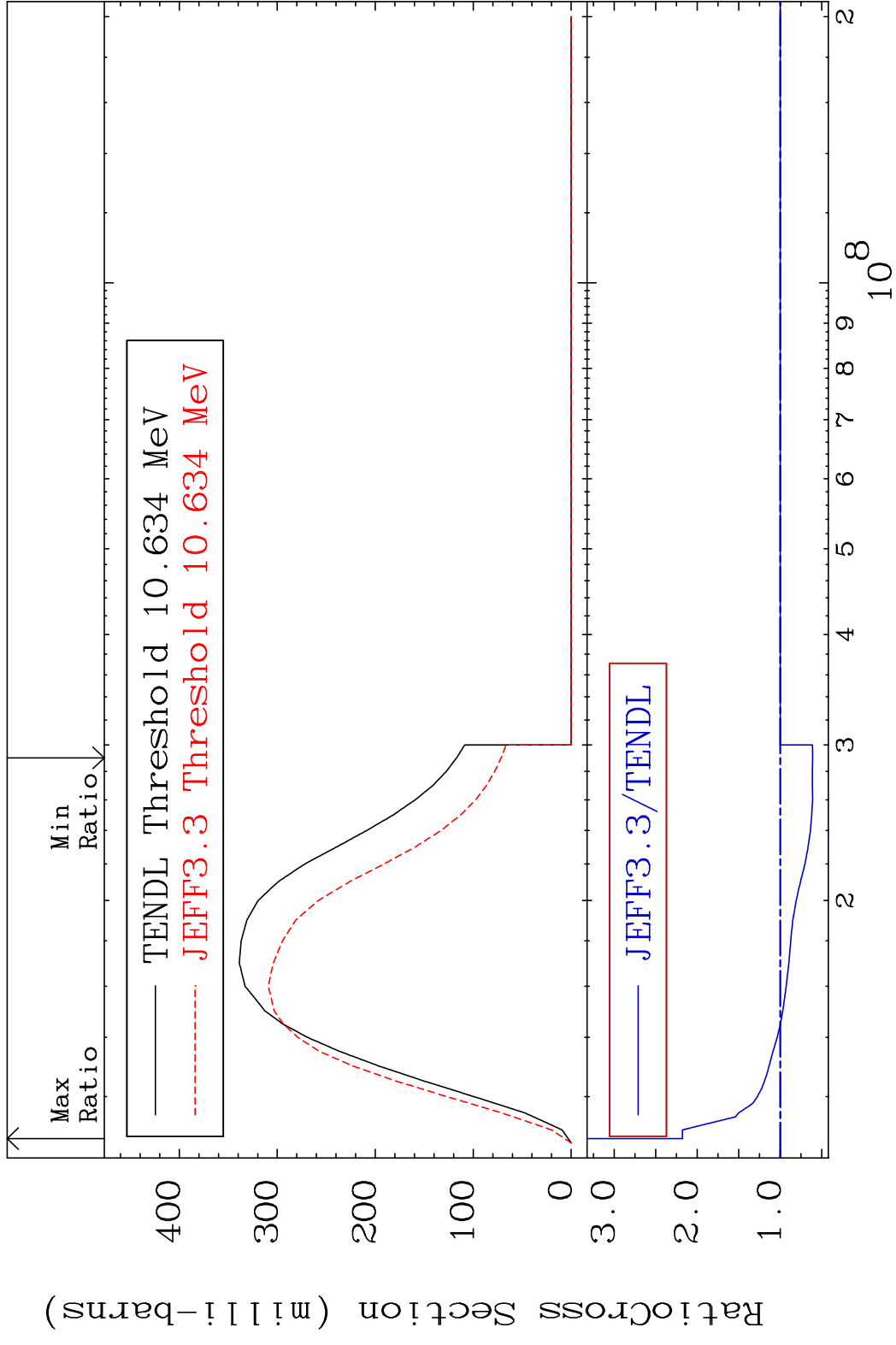
MAT 3437 Dpa inelastic (mt51-91) 34-Se-78  
 Cross Section -8.858 To 45.71 %



MAT 3437 Dpa disappearance (mt102 -120) 34-Se-78  
 Cross Section -99.77 To 9999. %

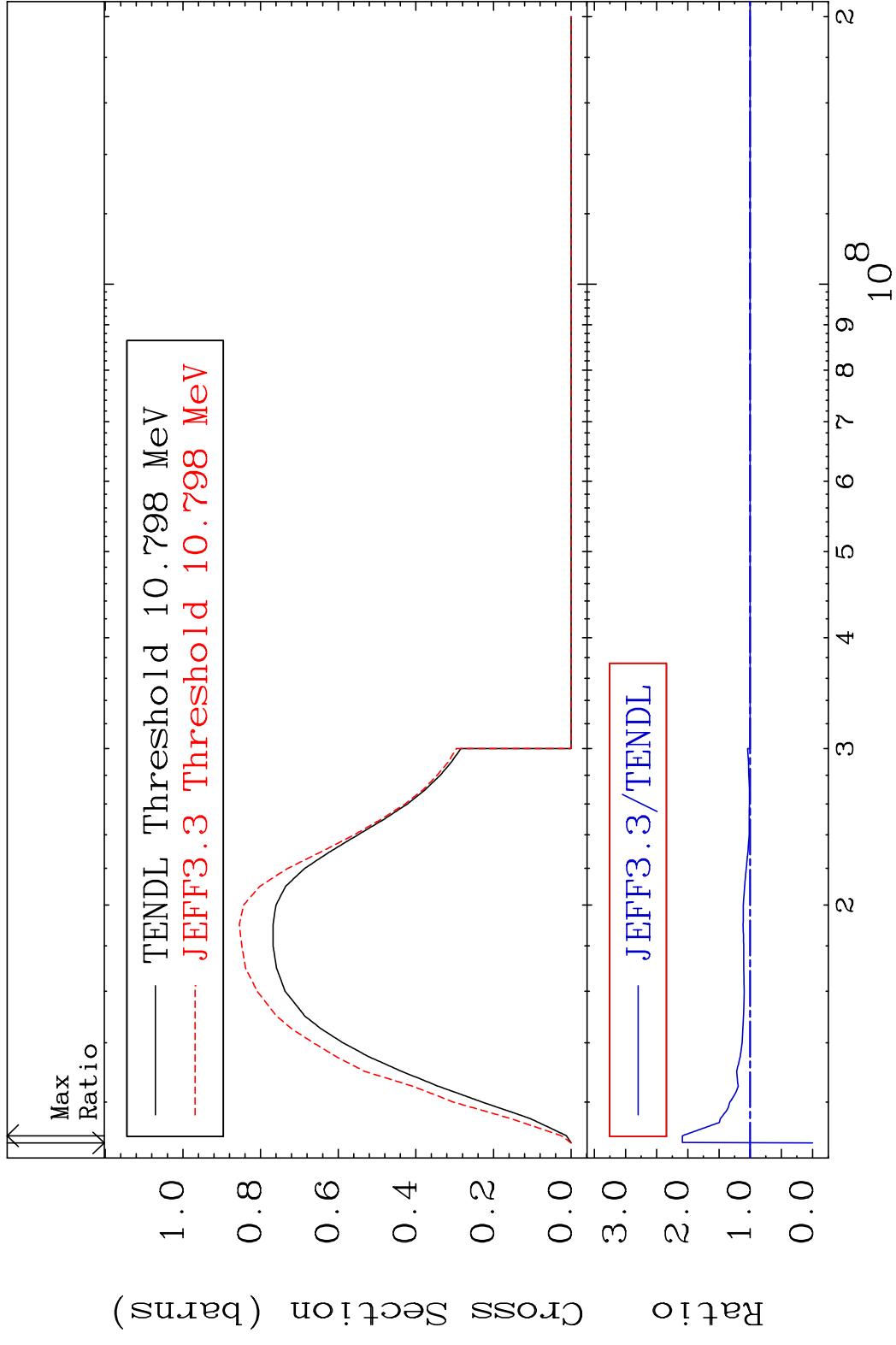


MAT 3437 (n,2n):34-Se-77g 34-Se-78  
 Radionuclide Production Cross Section 117.9 %

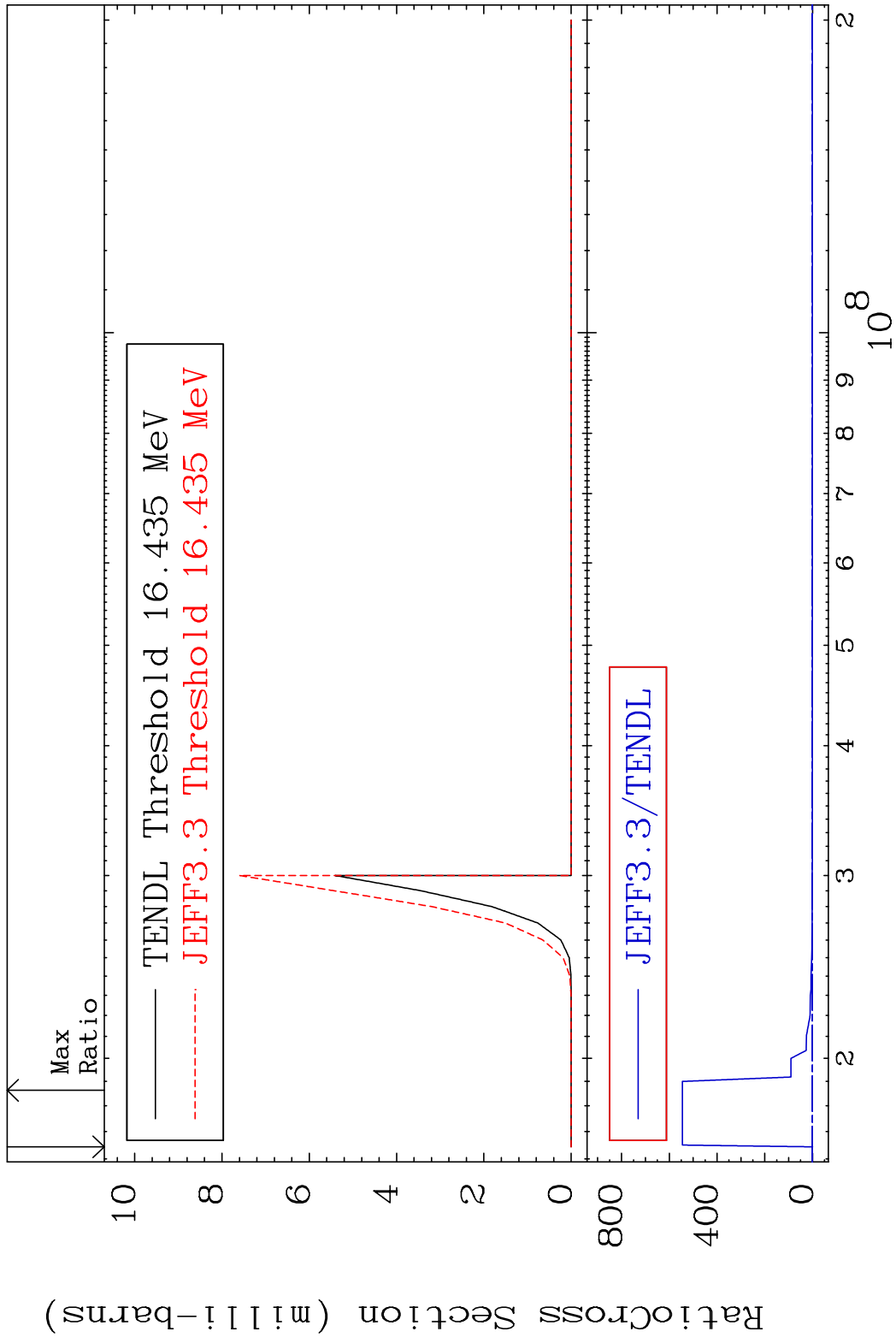




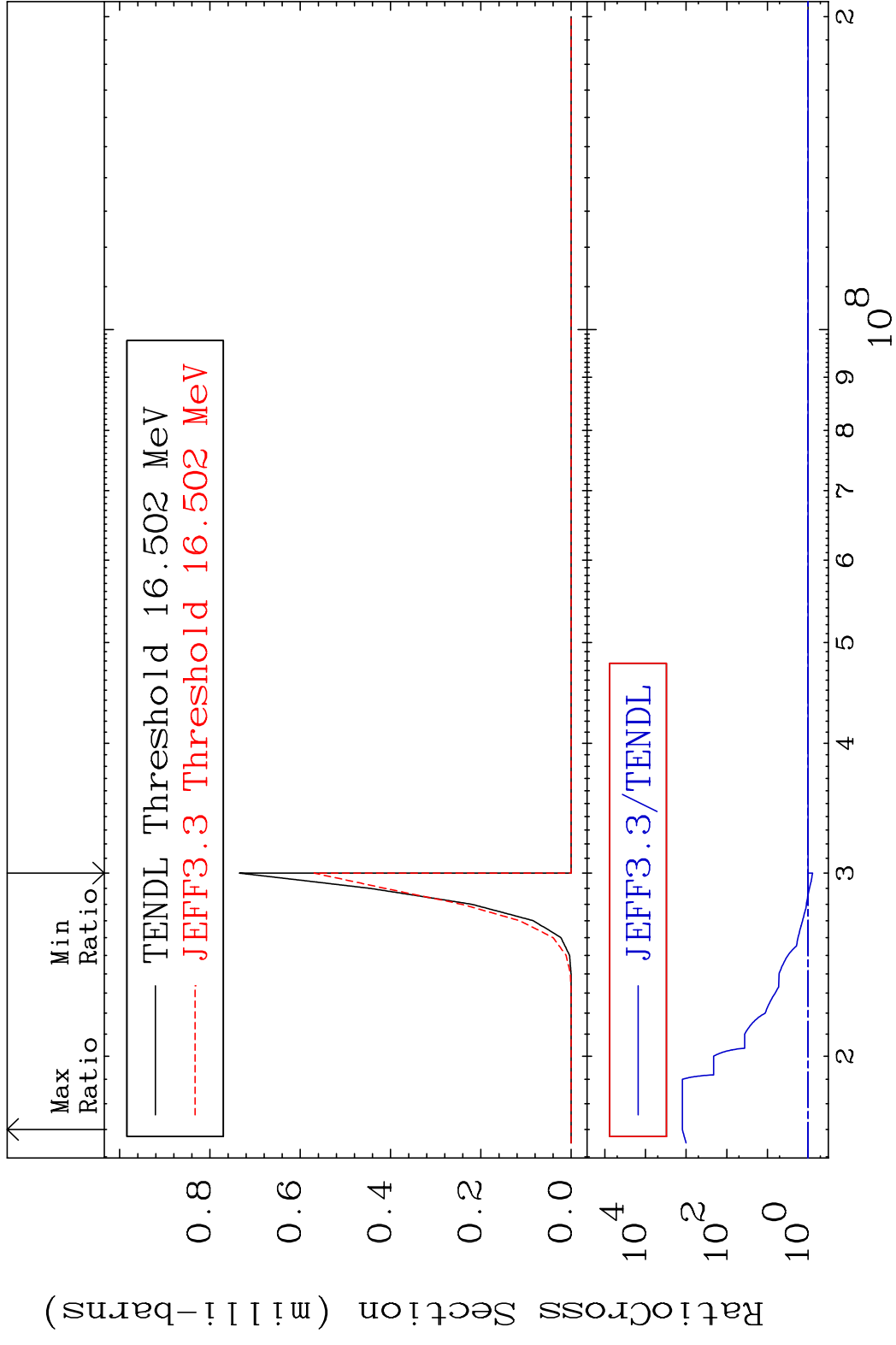
MAT 3437 (n,2n):34-Se-77m1 34-Se-78  
 Radionuclide Production Cross Section Ratio 108.8 %

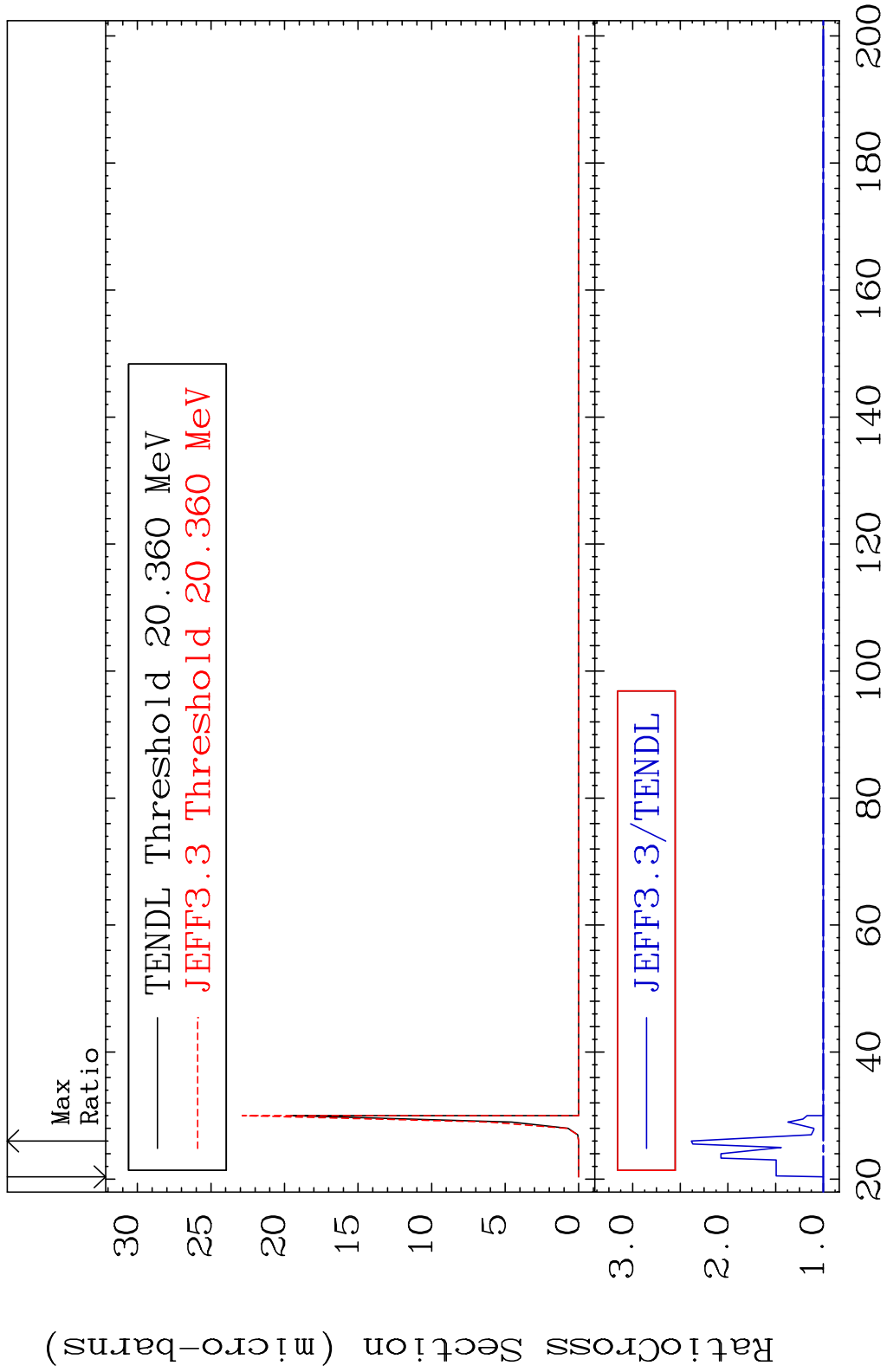


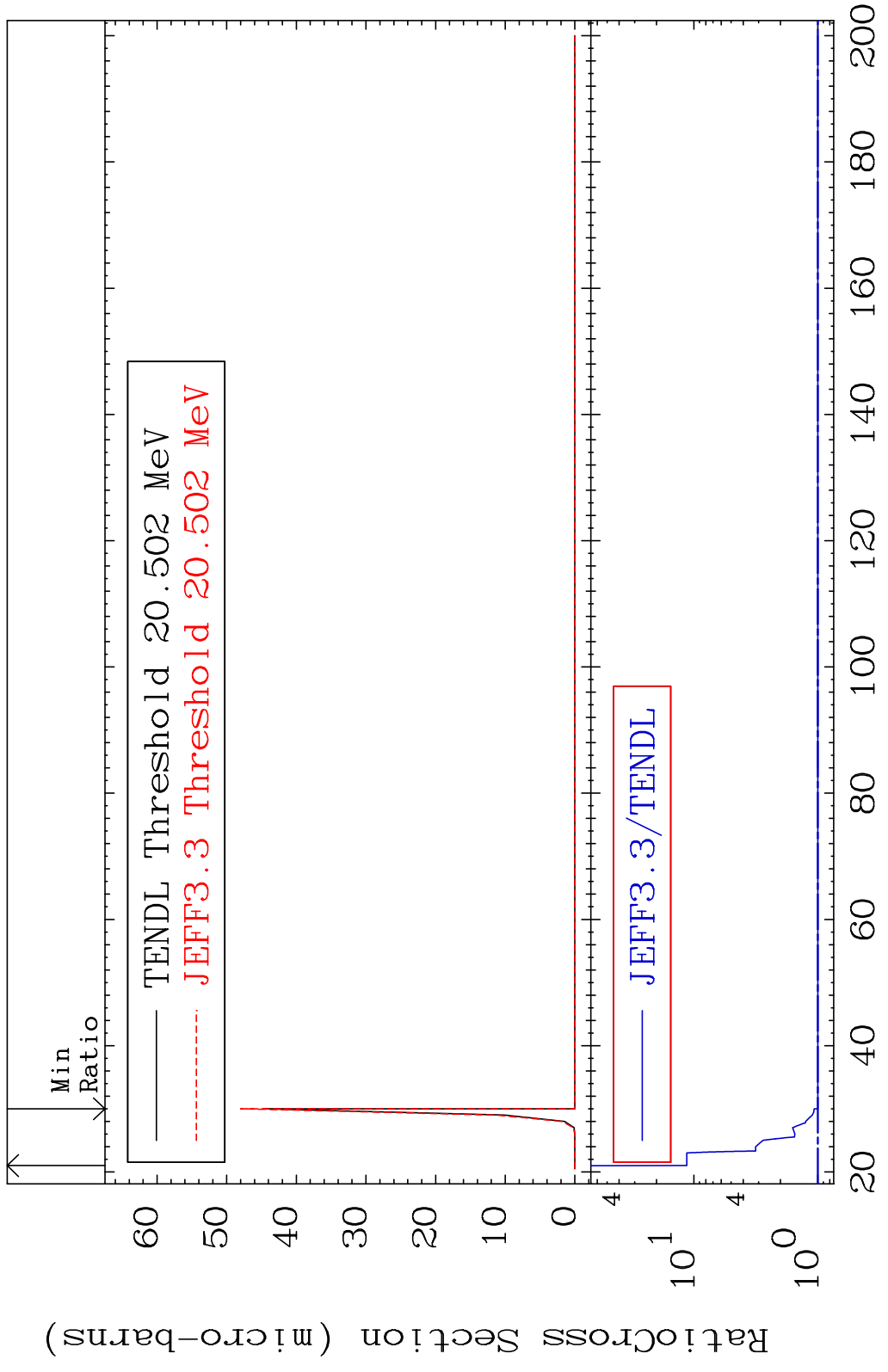
MAT 3437 (n,2n)  $\alpha$ :32-Ge-73g 34-Se-78  
 Radionuclide Production Cross Section (%)

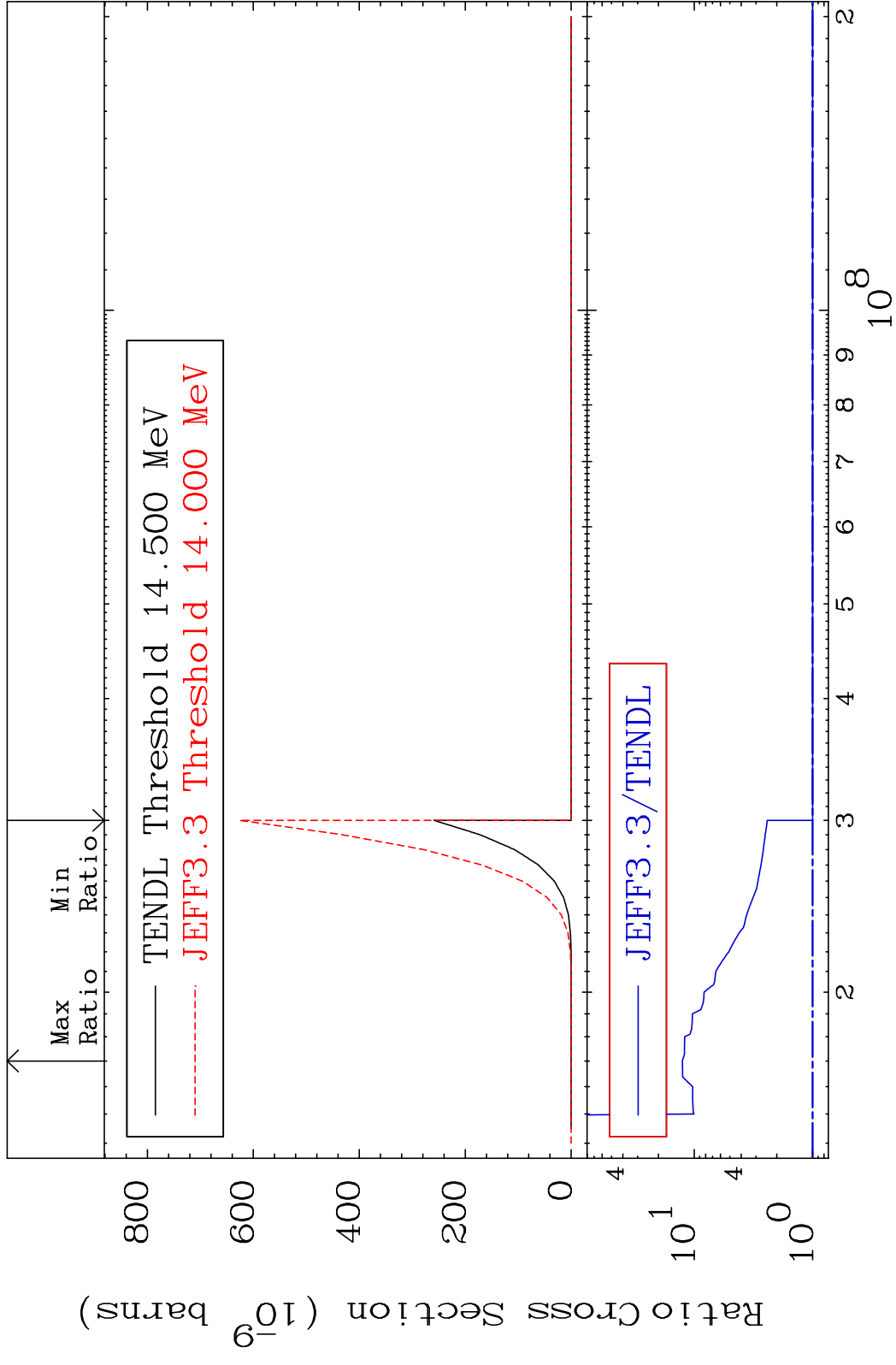


MAT 3437 (n,2n)  $\alpha$ :32-Ge-73m2 34-Se-78  
 Radionuclide Production Cross Section Ratio

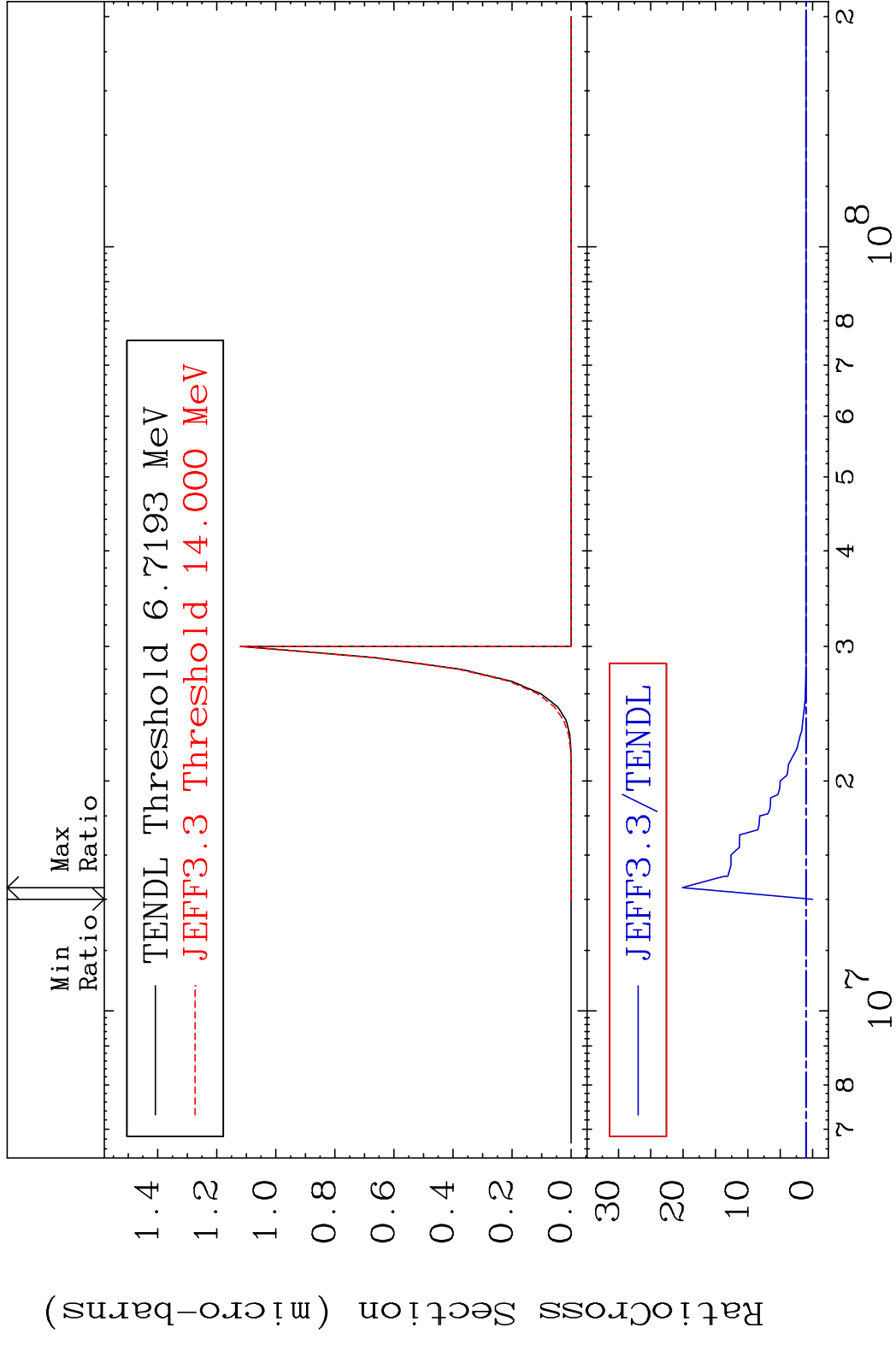


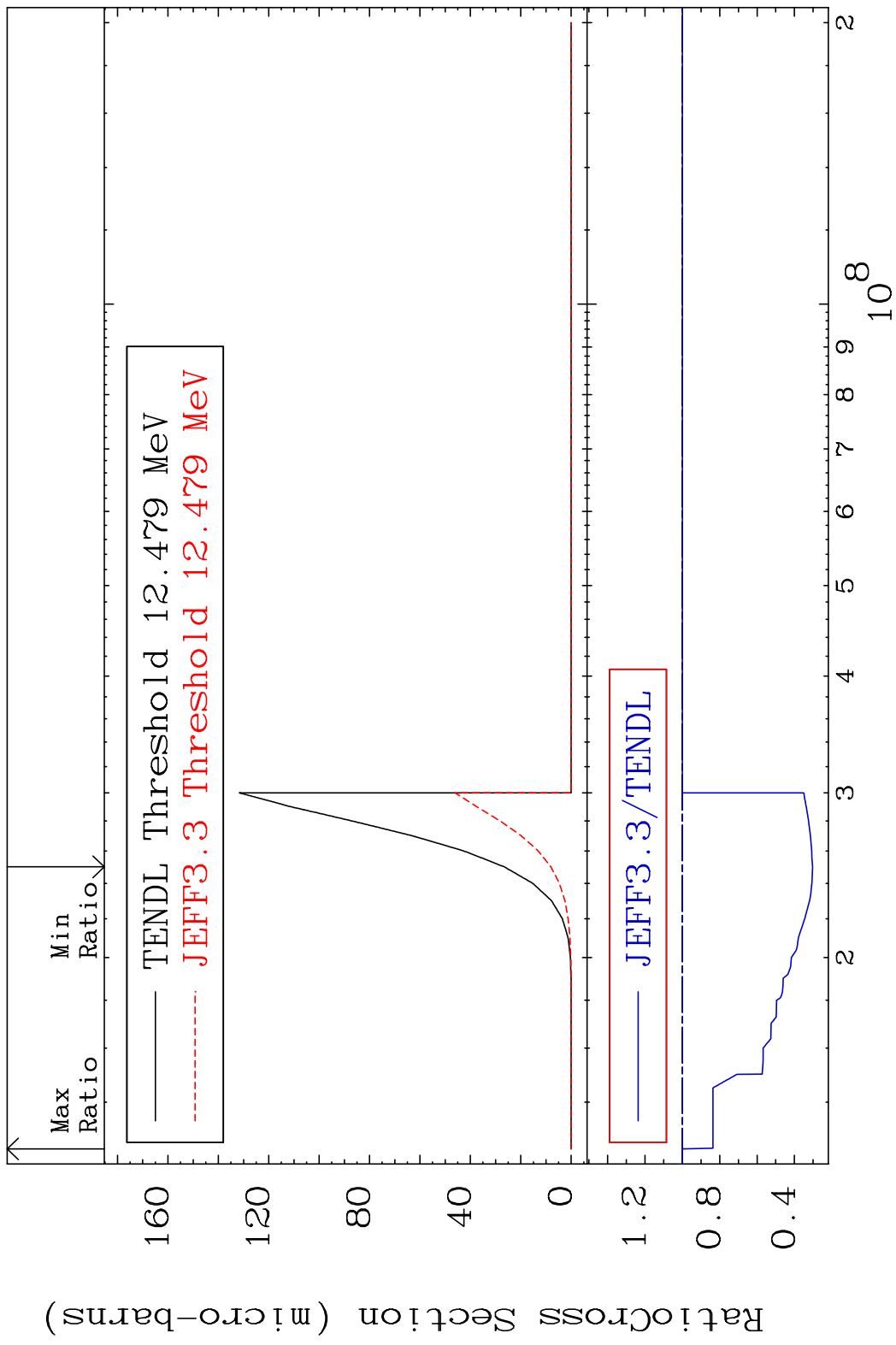






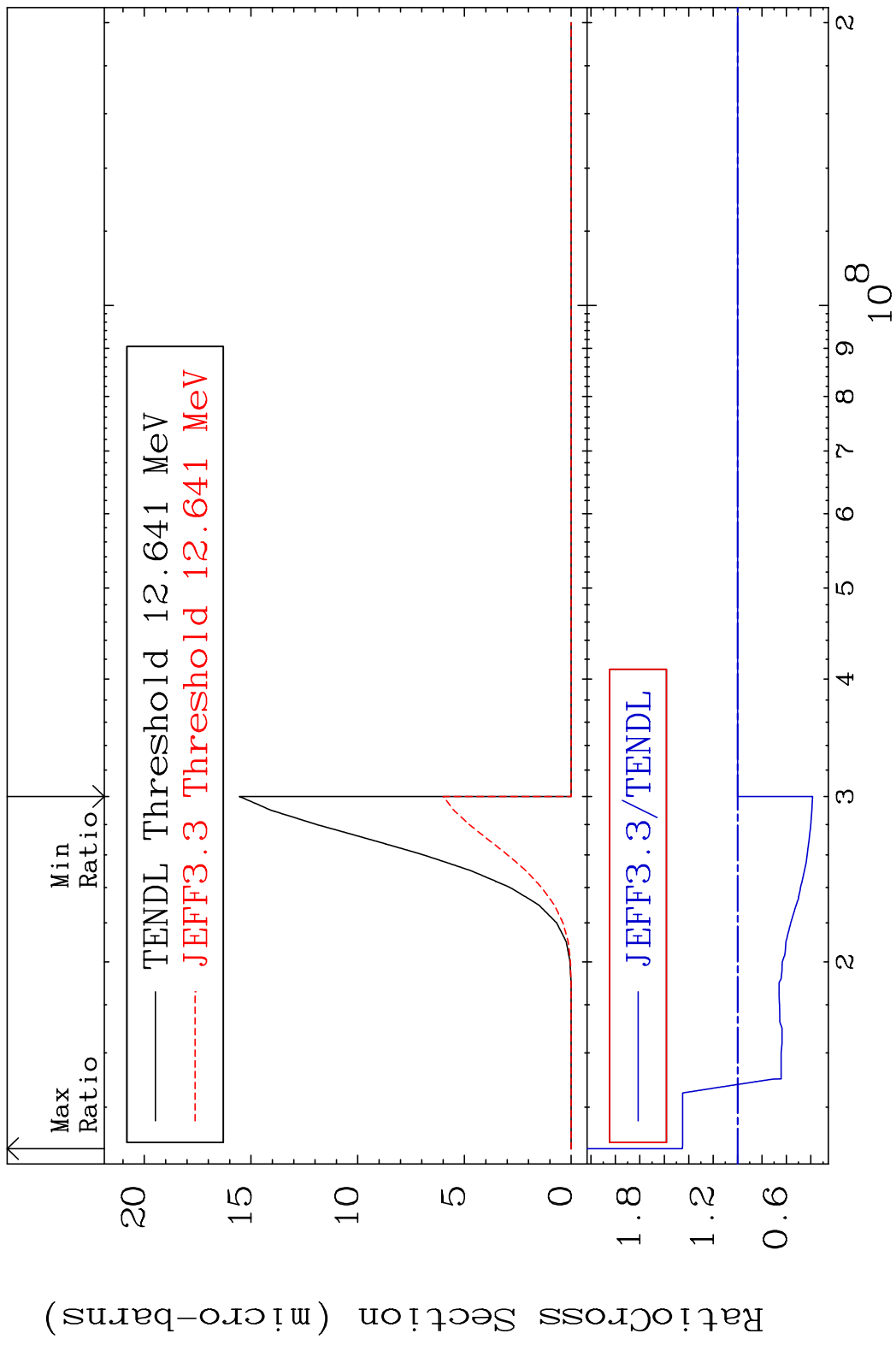
MAT 3437 (n,2α):30-Zn-71m1 34-Se-78  
 Radionuclide Production Cross Section 1912. %

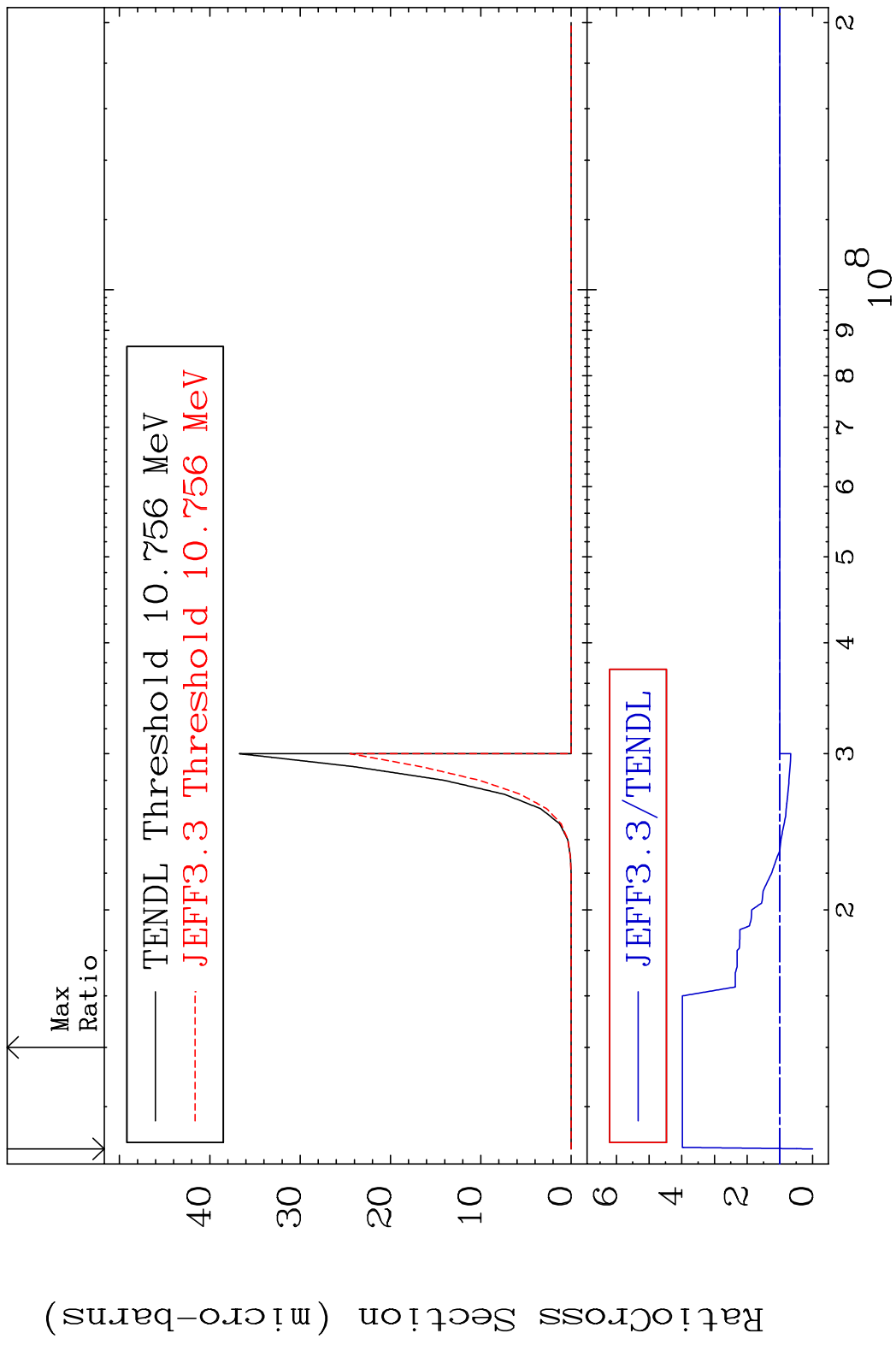


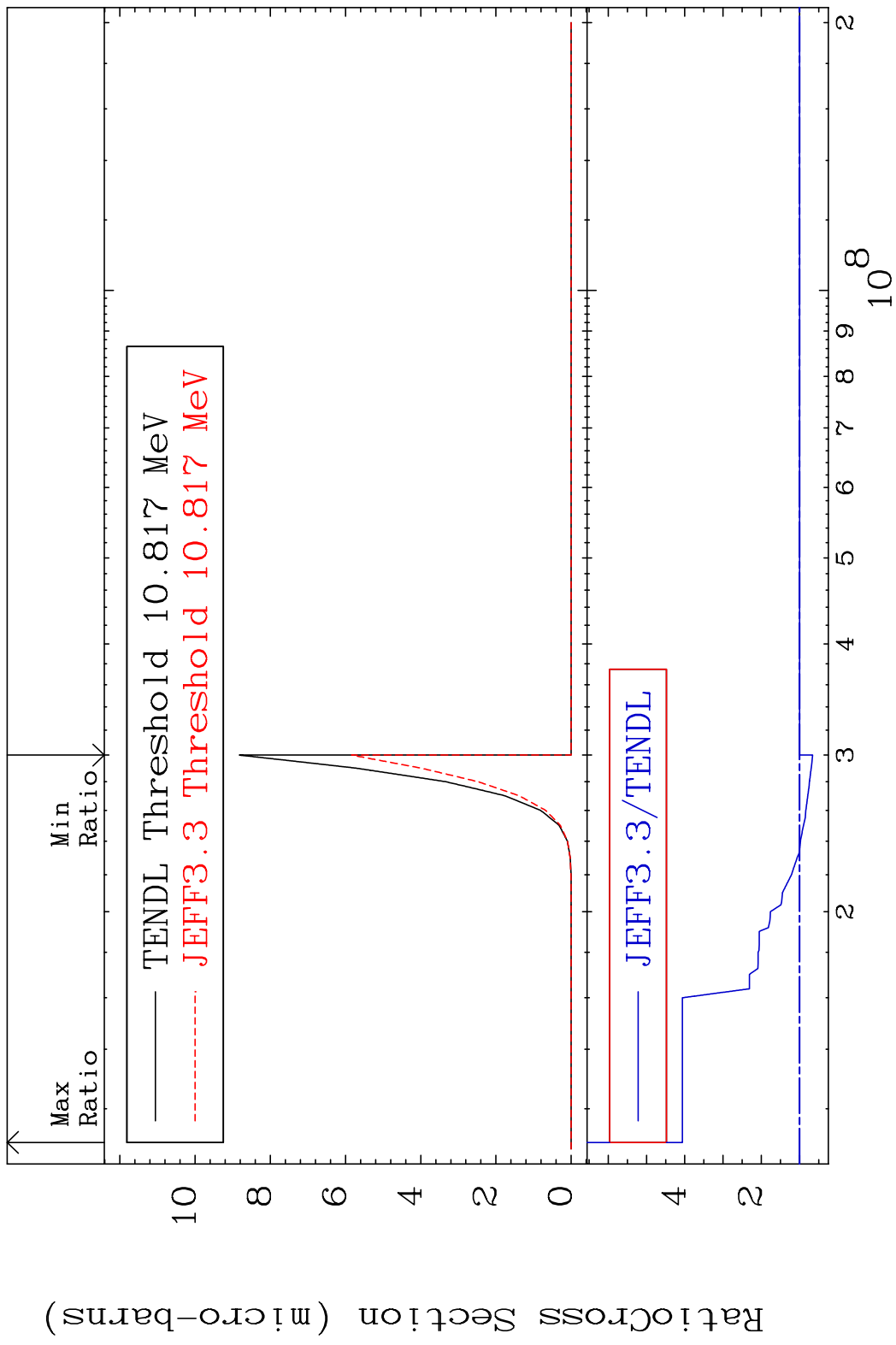




MAT 3437 (n,2p):32-Ge-77m1 34-Se-78  
 Radionuclide Production Cross Section 45.19 %







MAT 3437 (n, p) t:32-Ge-75g 34-Se-78  
 Radionuclide Production Cross Section 98.991 d to 270.3 %

