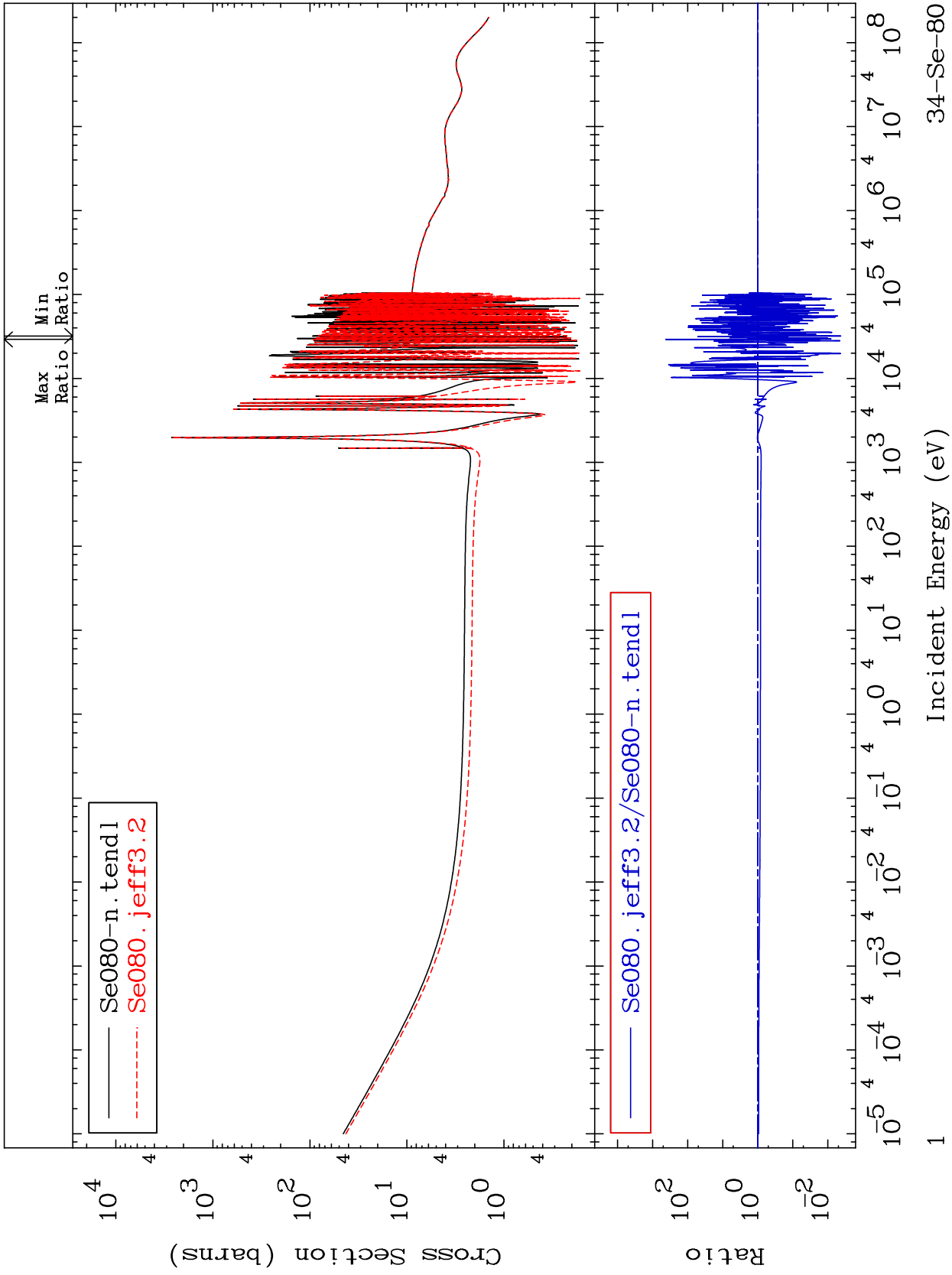


MAT 3443

Total  
Cross Section

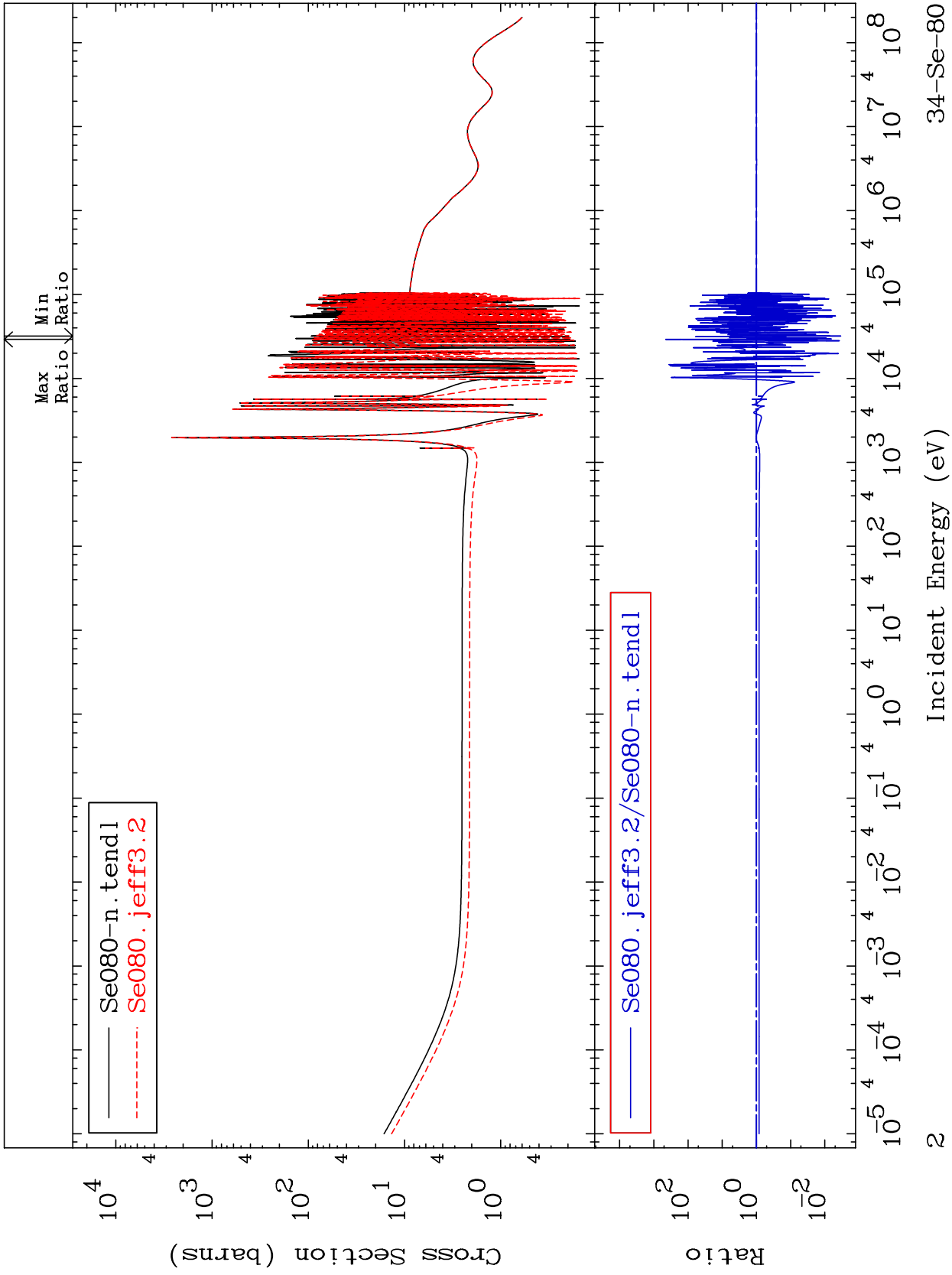
34-Se-80  
-99.57 To 9999. %



MAT 3443

Elastic  
Cross Section

34-Se-80  
-99.66 To 9999. %



2

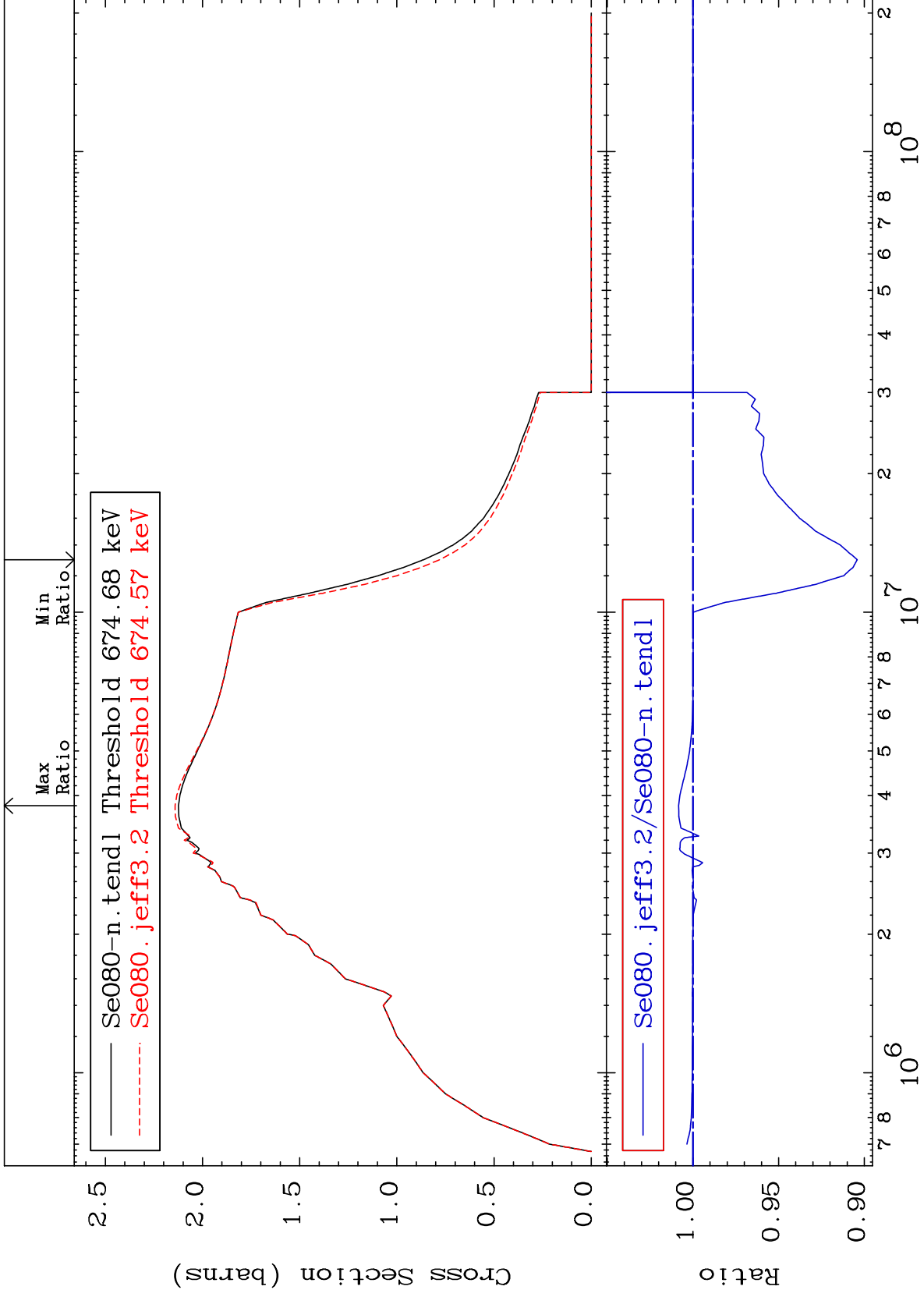
Incident Energy (eV)

34-Se-80

MAT 3443

Inelastic  
Cross Section

<sup>34</sup>Se-80  
-9.588 To 0.833 %



3

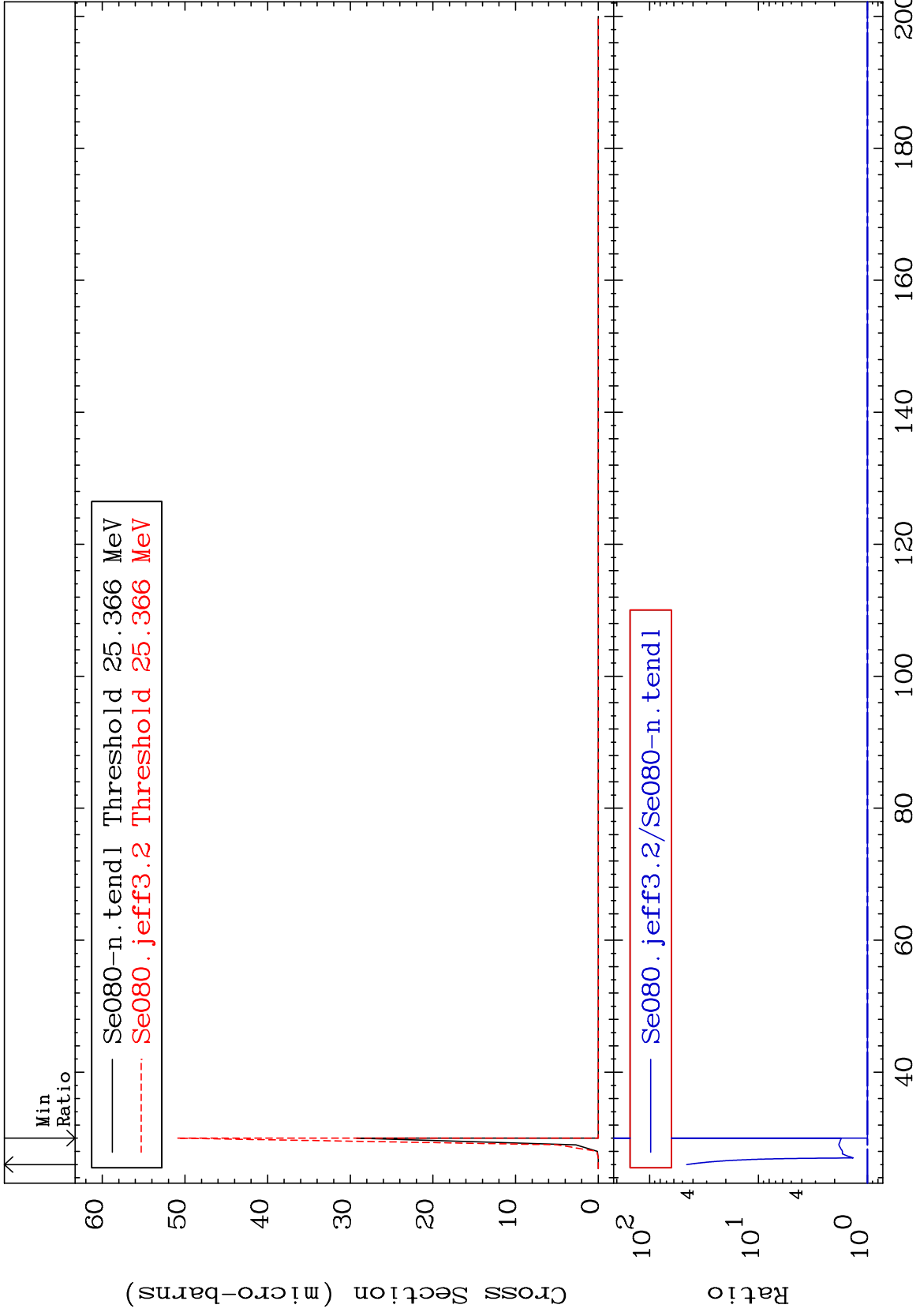
Incident Energy (eV)

<sup>34</sup>Se-80

MAT 3443

(n,2n) d  
Cross Section

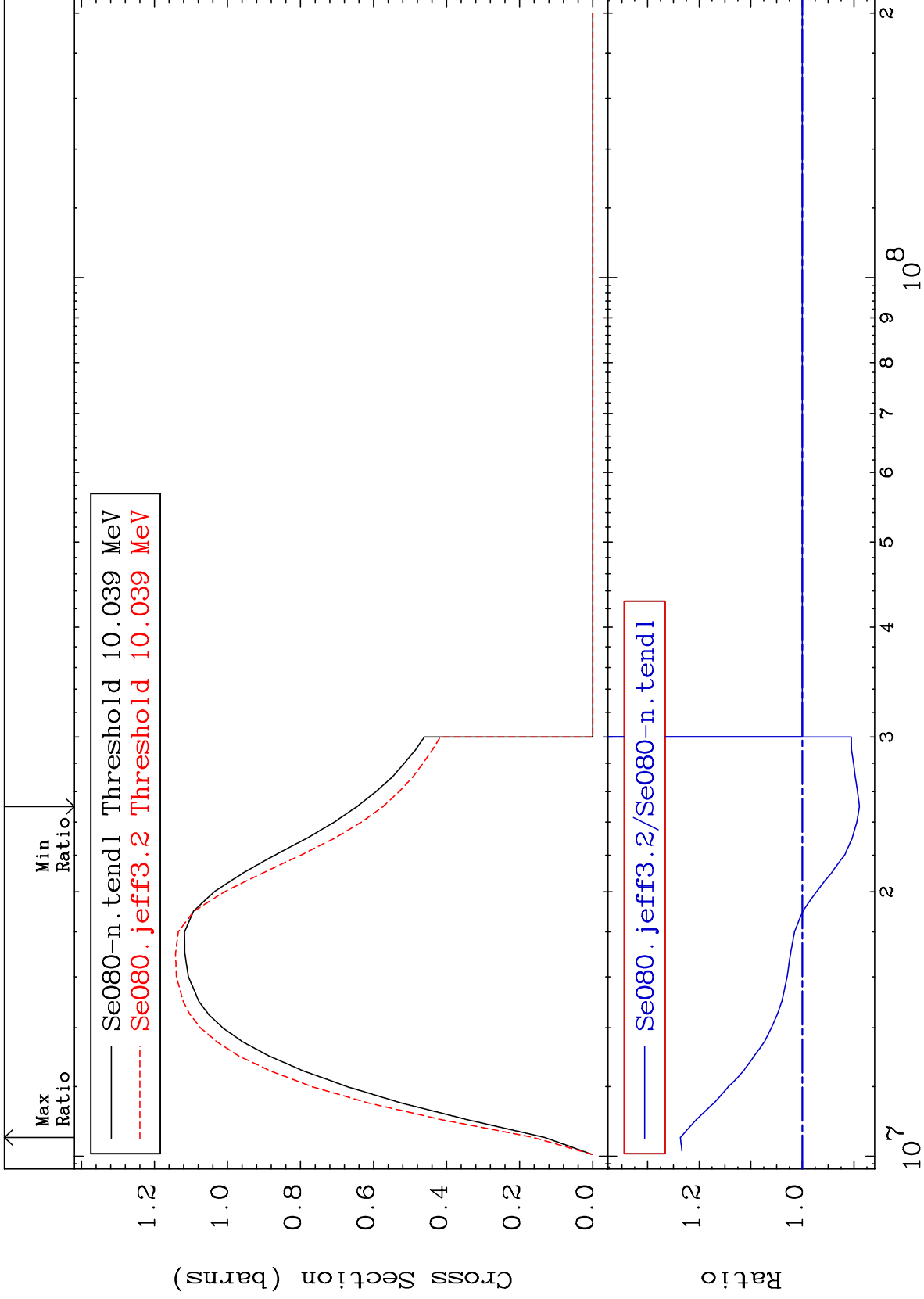
<sup>34</sup>Se-80  
To 4464. %  
0.000



MAT 3443

(n,2n)  
Cross Section

<sup>34</sup>Se-80  
-11.07 To 23.65 %

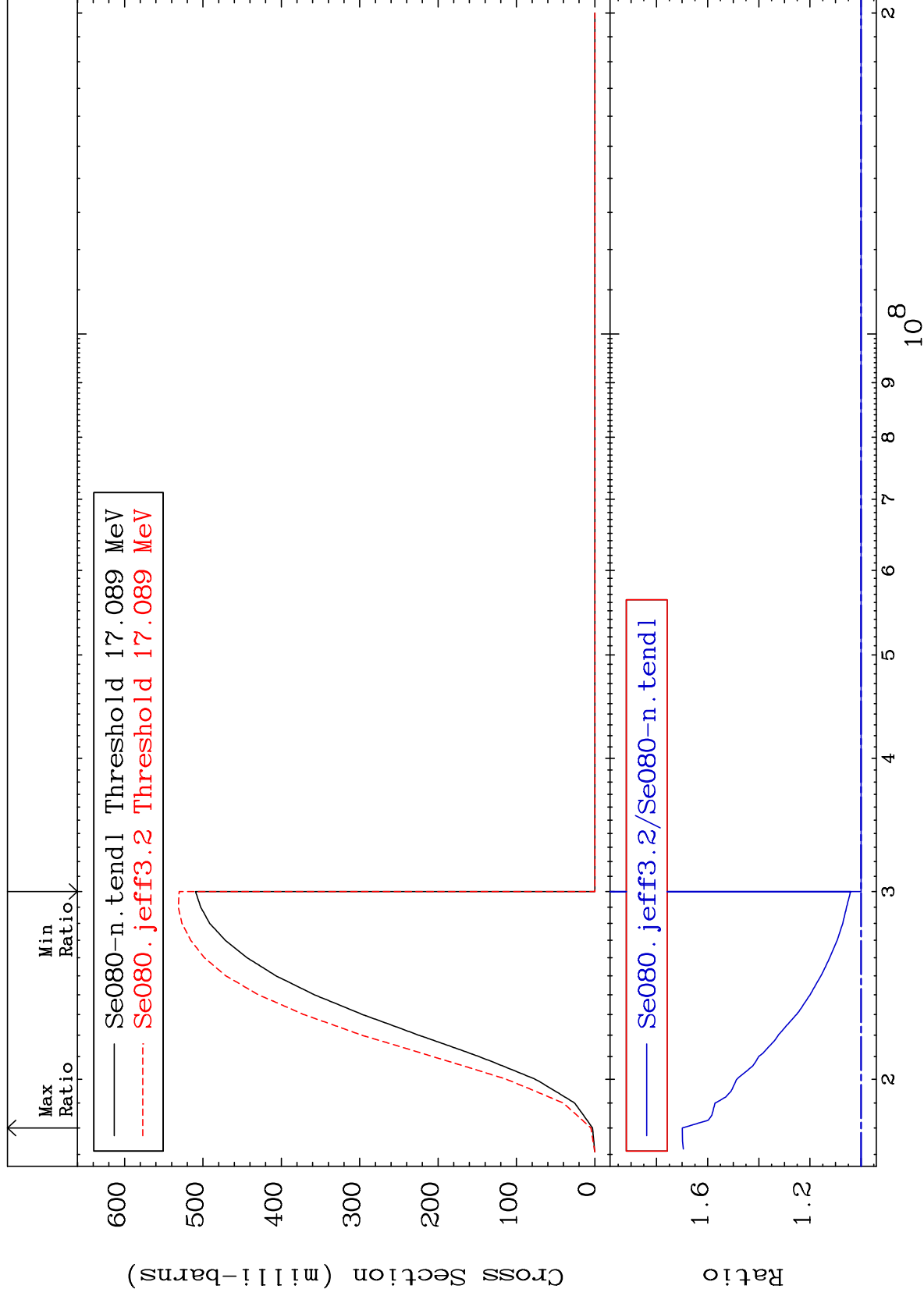


Incident Energy (eV)

<sup>34</sup>Se-80

MAT 3443

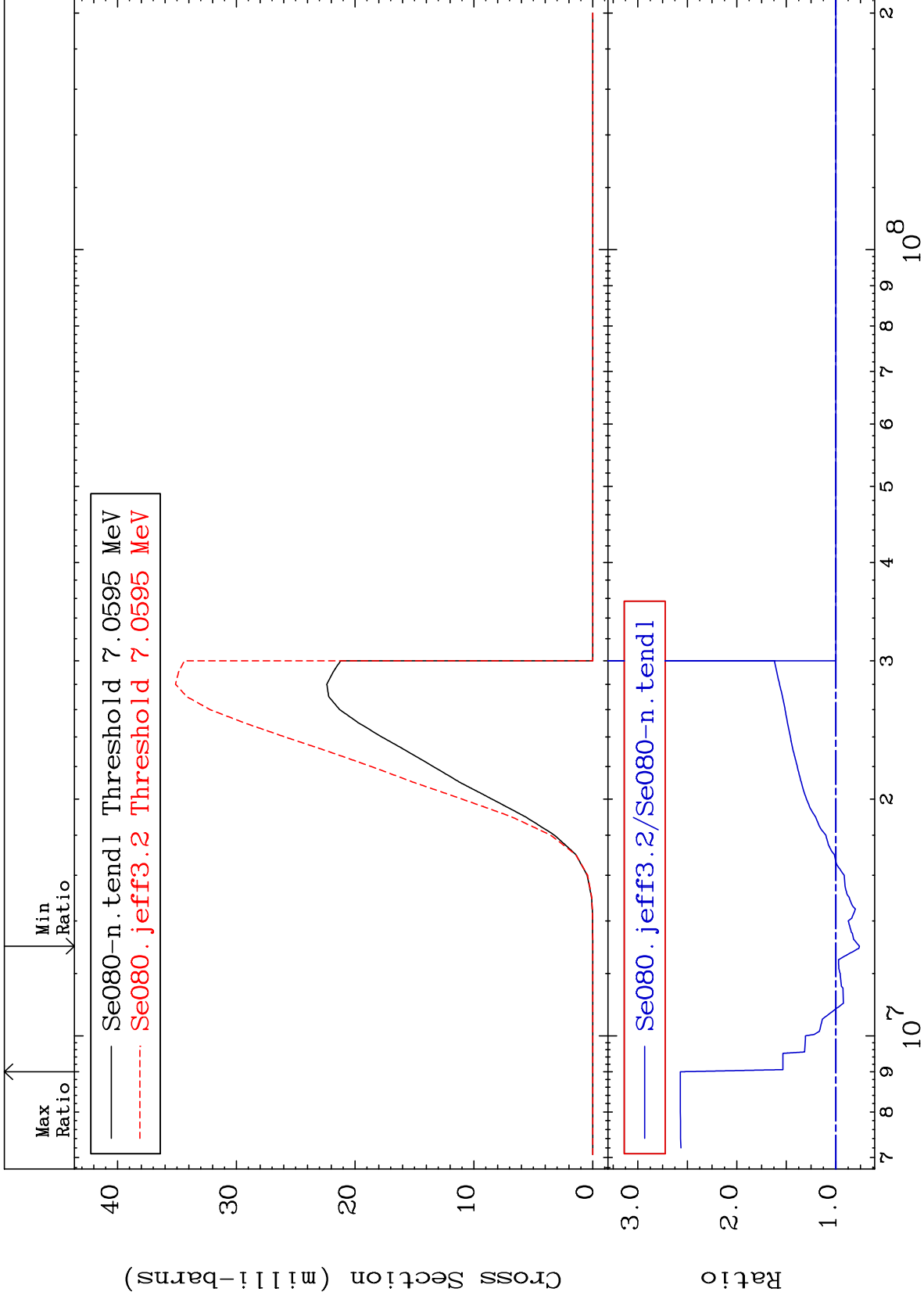
(n,3n) Cross Section  
34-Se-80 To 69.92 %  
0.000



MAT 3443

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

<sup>34</sup>Se-80  
-23.89 To 157.1 %



7

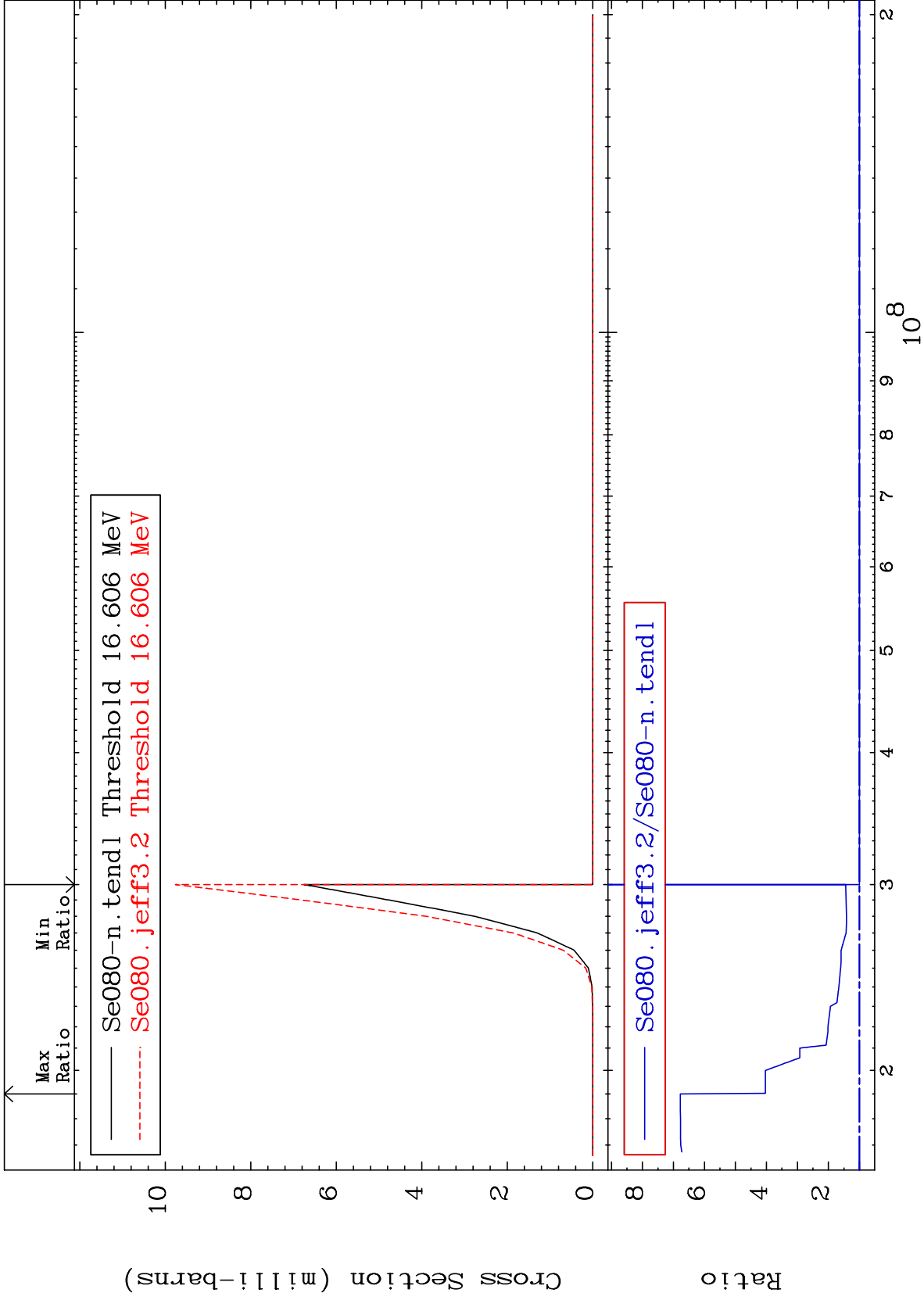
Incident Energy (eV)

<sup>34</sup>Se-80

MAT 3443

(n,2n)  $\alpha$   
Cross Section

<sup>34</sup>Se-80  
To 577.7 %  
0.000

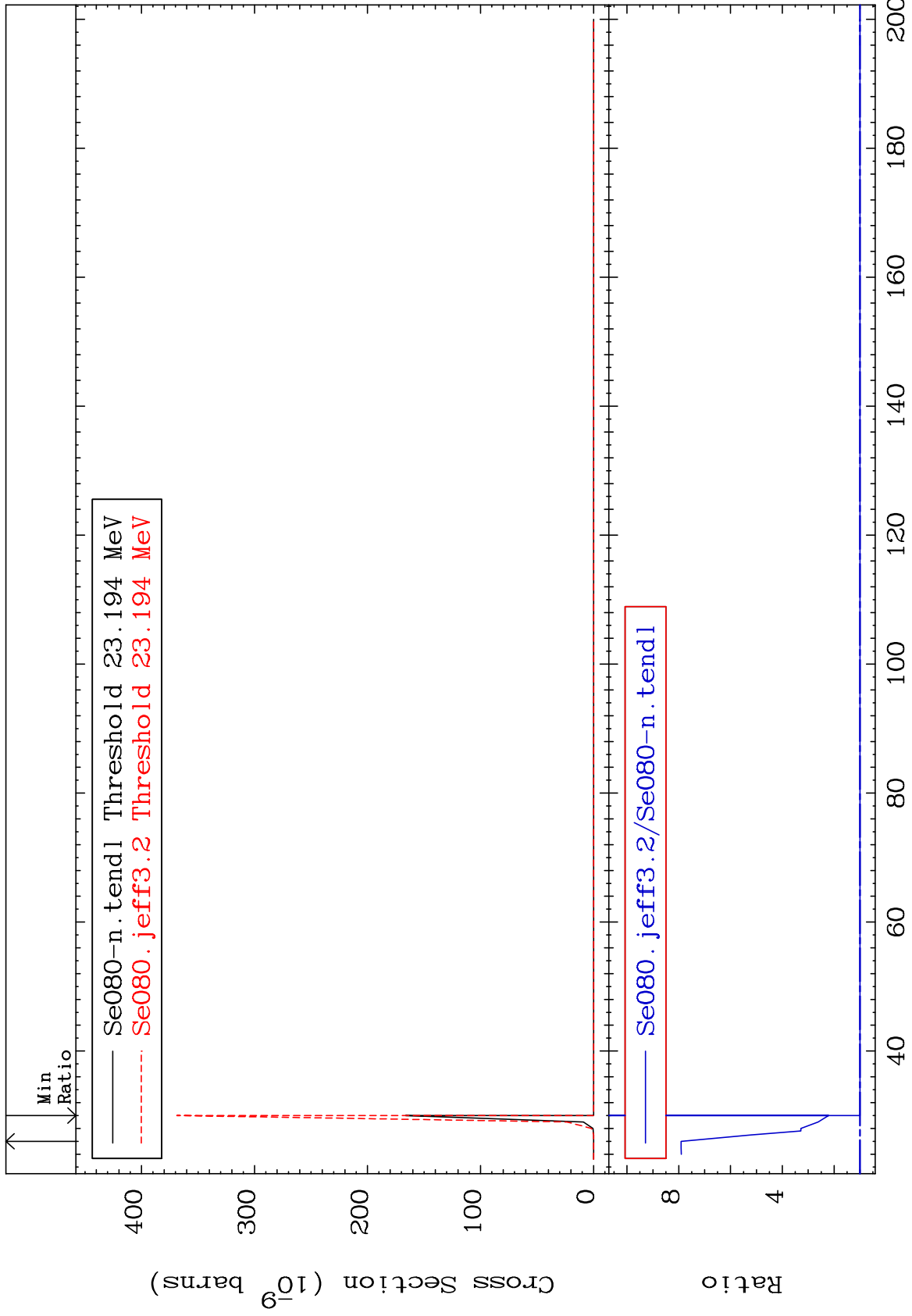




MAT 3443

(n,3n)  $\alpha$   
Cross Section

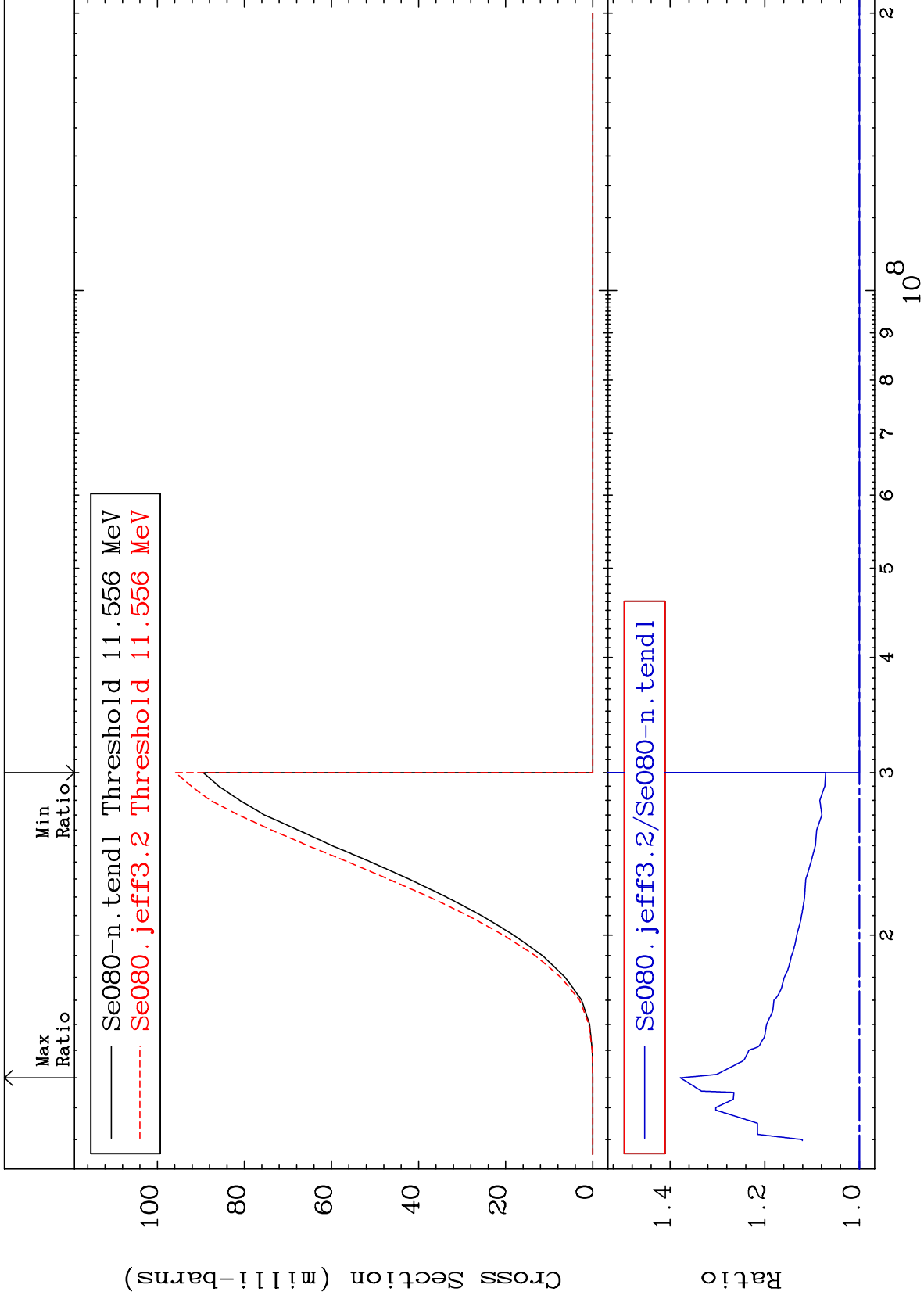
$^{34}\text{Se-80}$   
0.000 To 690.8 %



MAT 3443

(n,n') p  
Cross Section

<sup>34</sup>Se-80  
To 37.83 %  
0.000



10

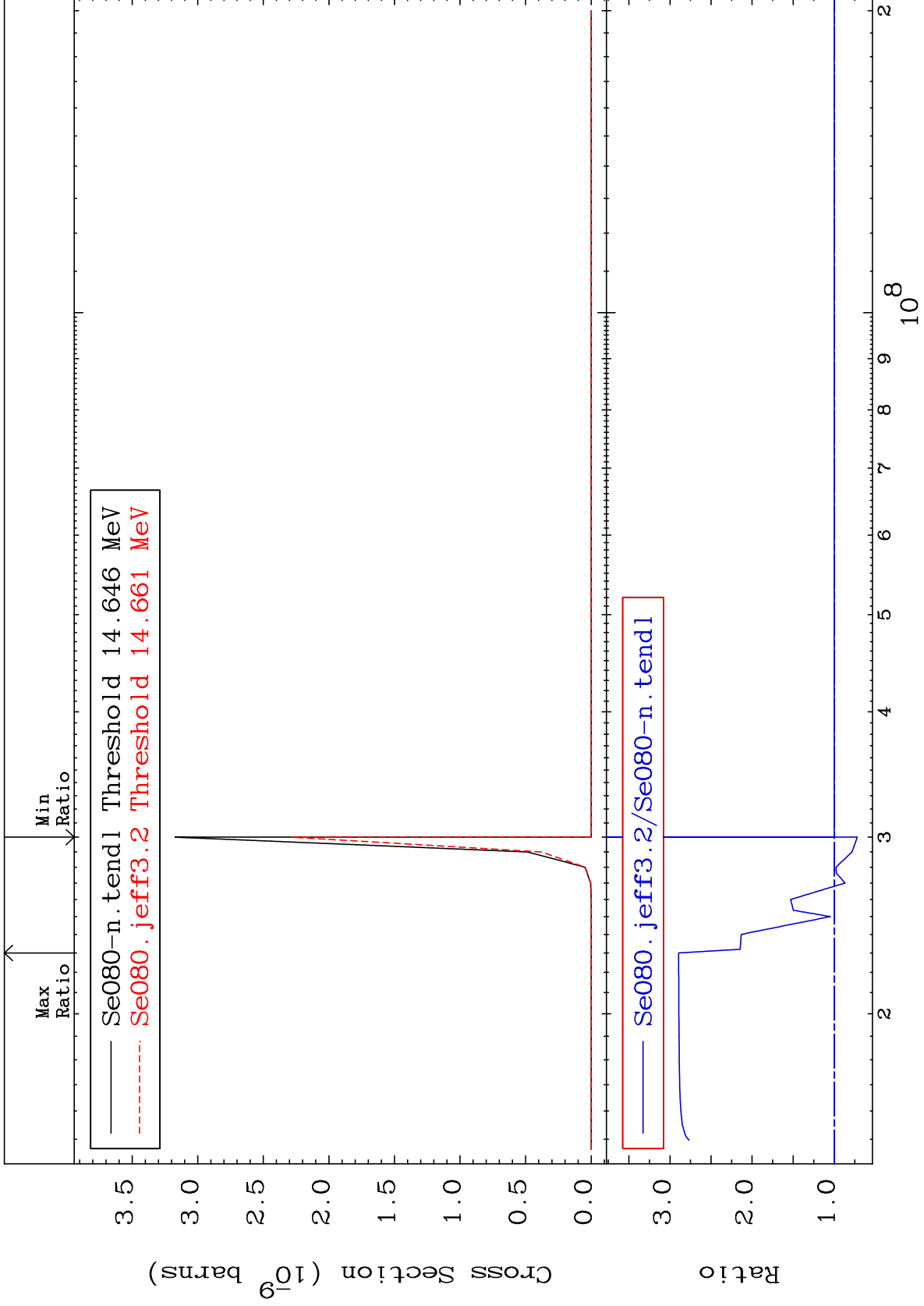
Incident Energy (eV)

<sup>34</sup>Se-80

MAT 3443

(n, n') 2 $\alpha$   
Cross Section

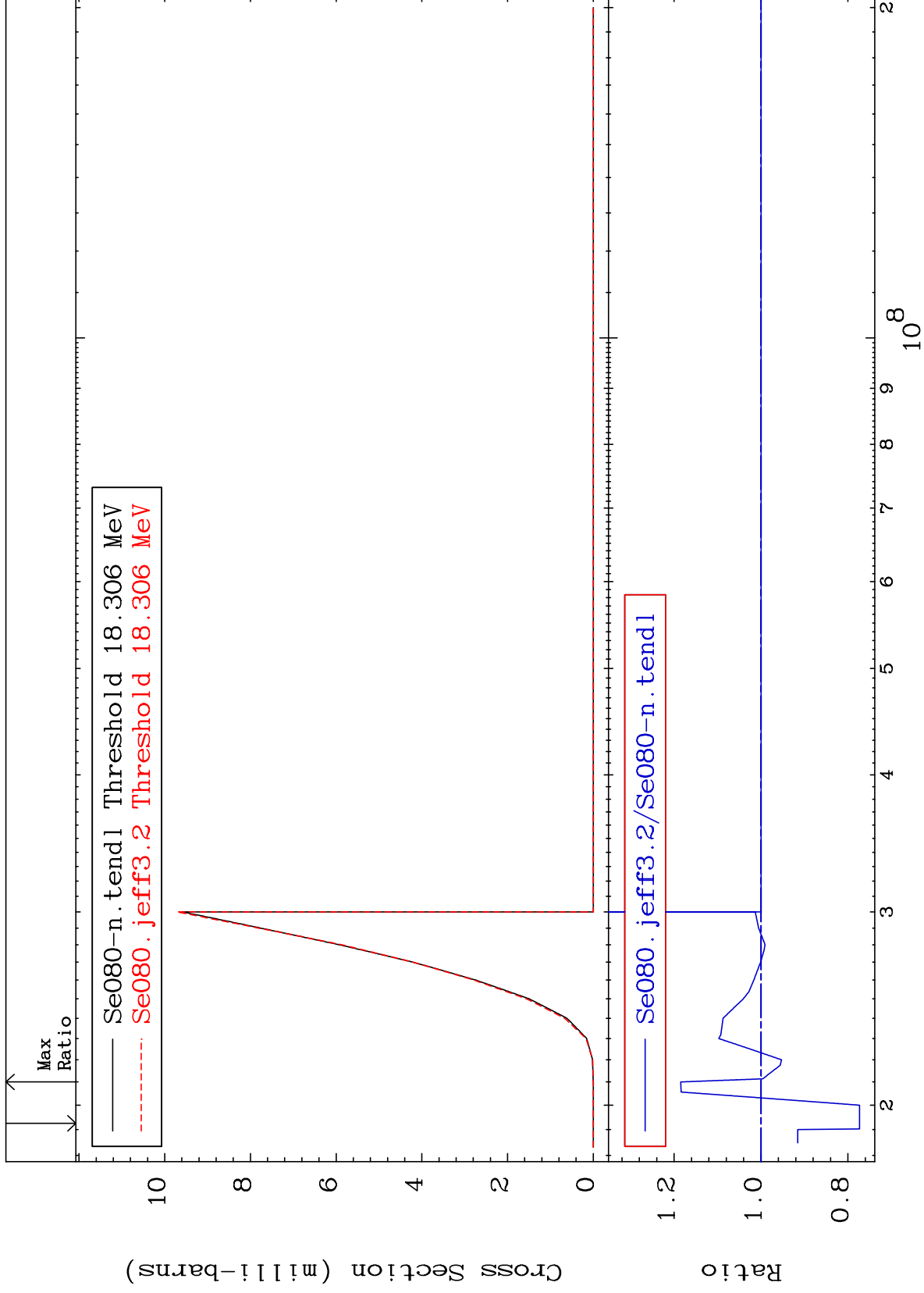
<sup>34</sup>Se-80  
-28.06 To 189.4 %



MAT 3443

(n,n') d  
Cross Section

<sup>34</sup>Se-80  
-22.68 To 18.47 %



12

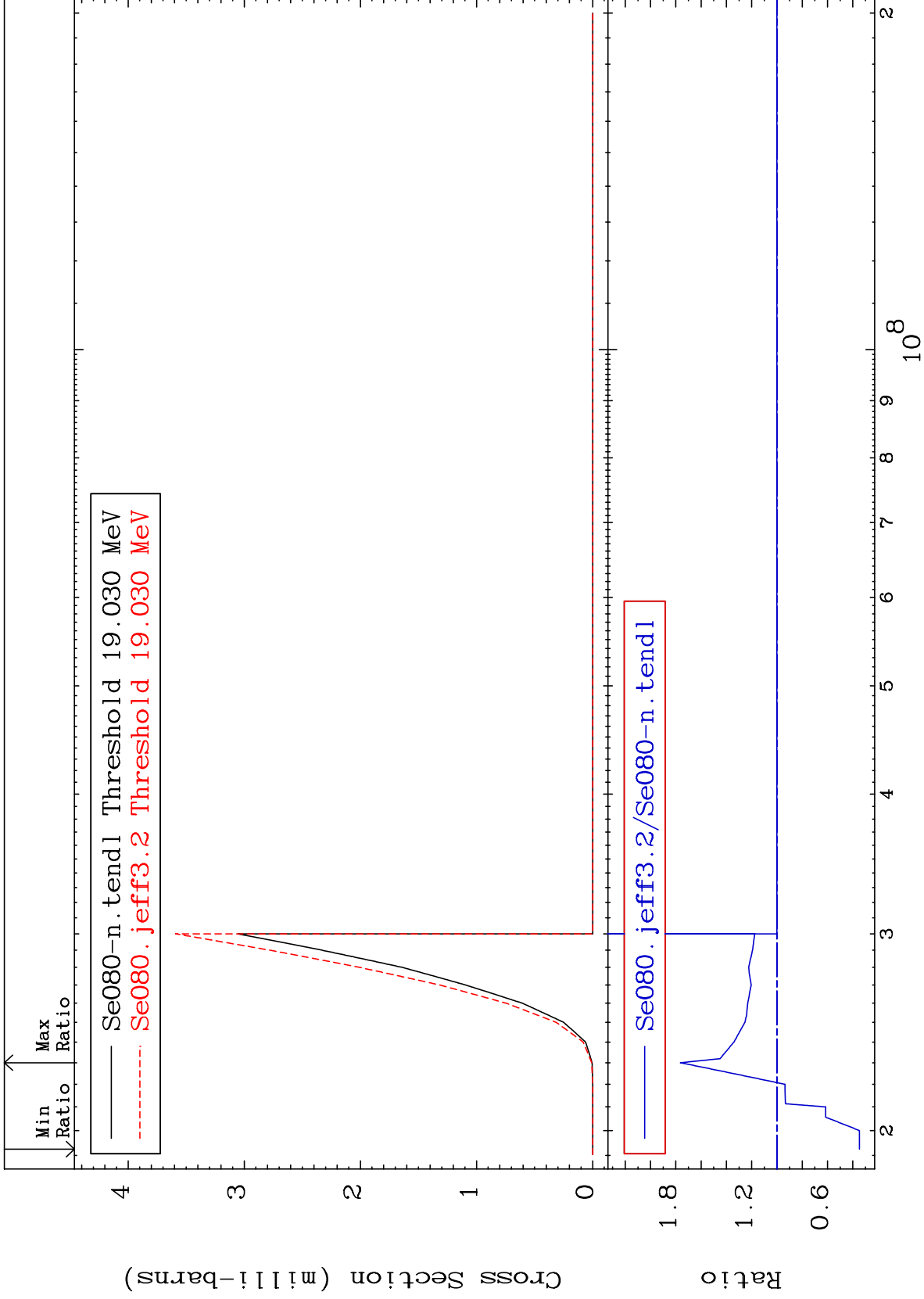
Incident Energy (eV)

<sup>34</sup>Se-80

MAT 3443

(n,n') t  
Cross Section

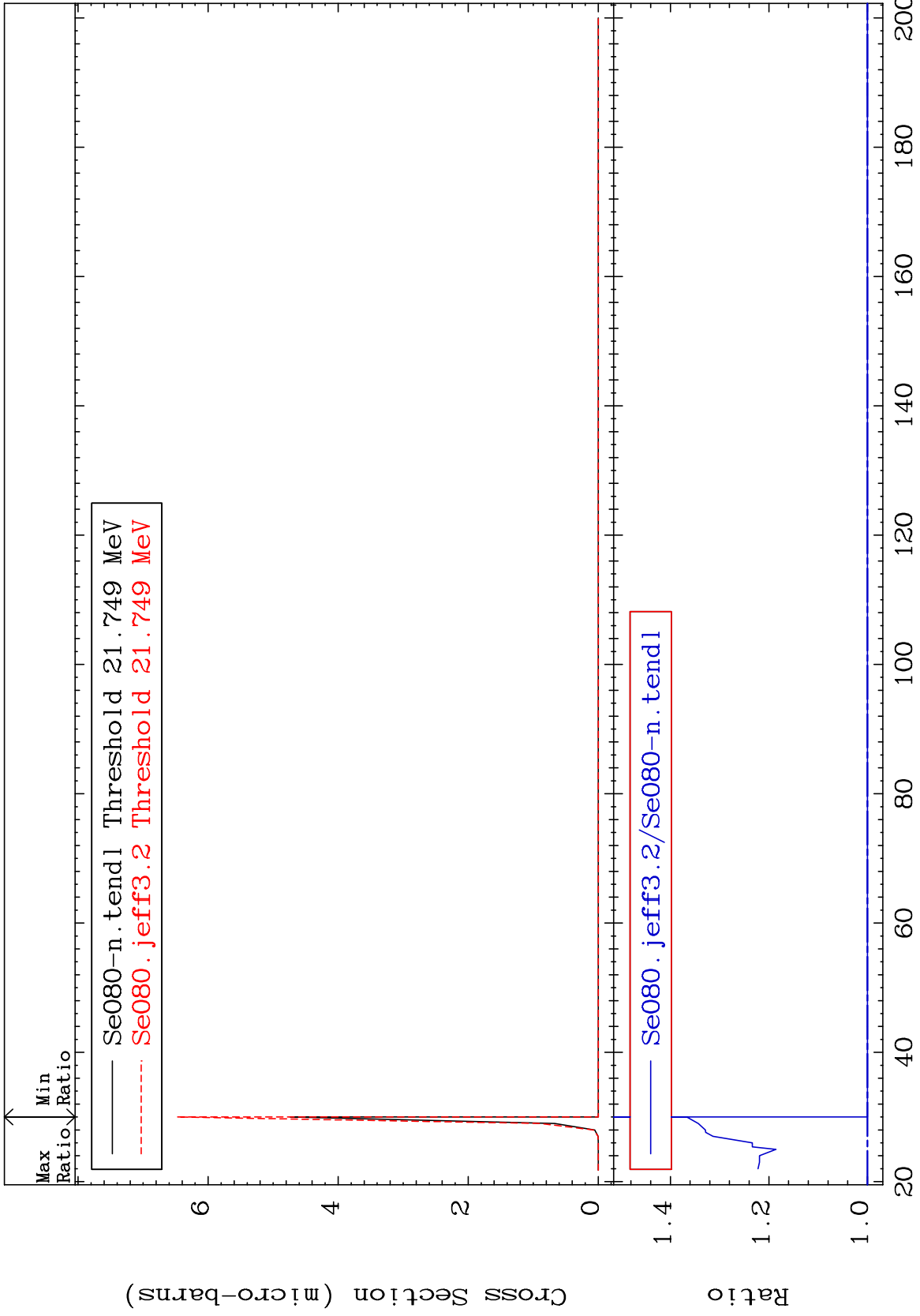
<sup>34</sup>Se-80  
-65.24 To 76.41 %



MAT 3443

(n, n') He-3  
Cross Section

34-Se-80  
0.000 To 36.68 %



14

Incident Energy (MeV)

34-Se-80

MAT 3443

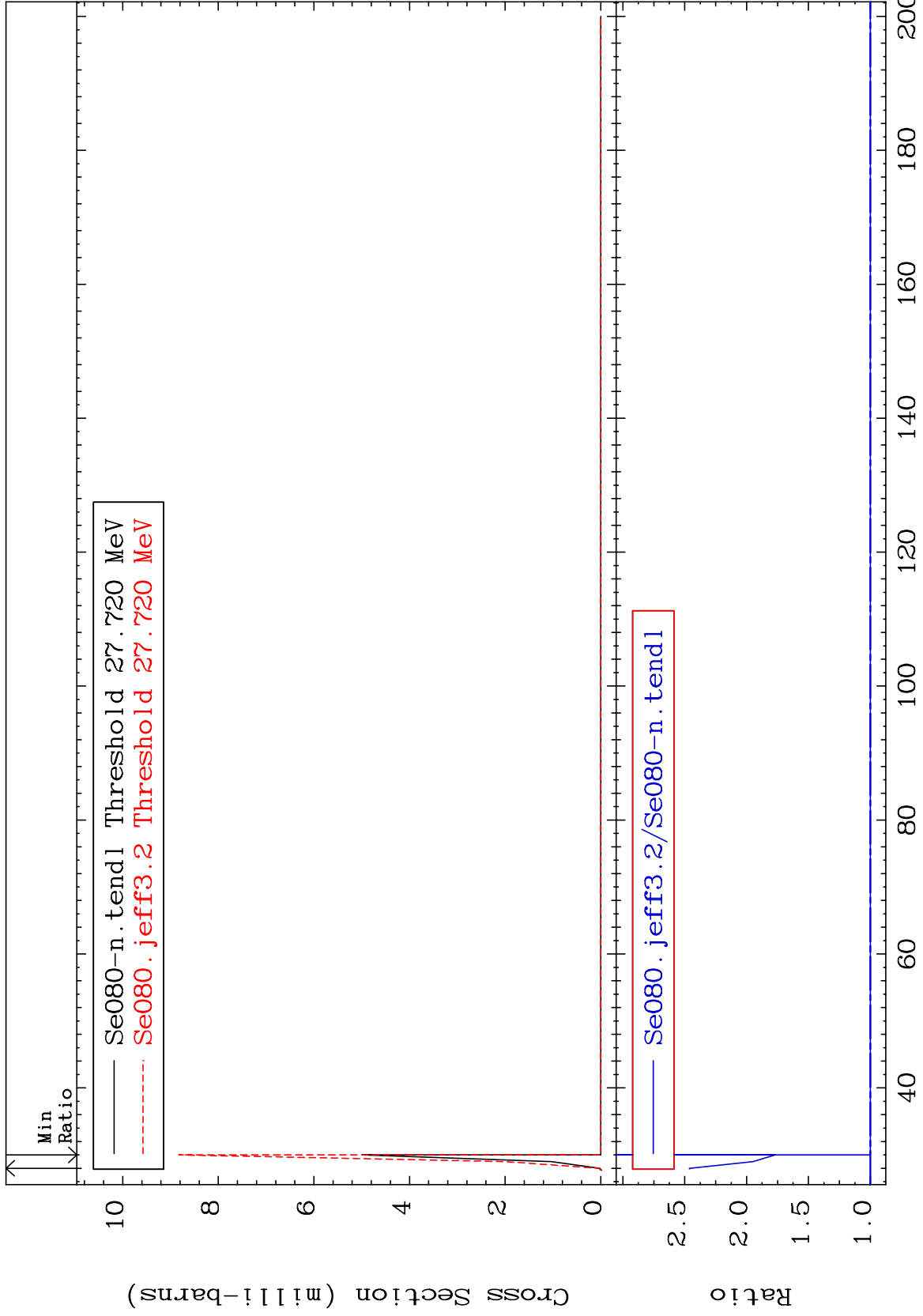
(n,4n)

<sup>34</sup>Se-80

Cross Section

0.000

To 146.3 %



15

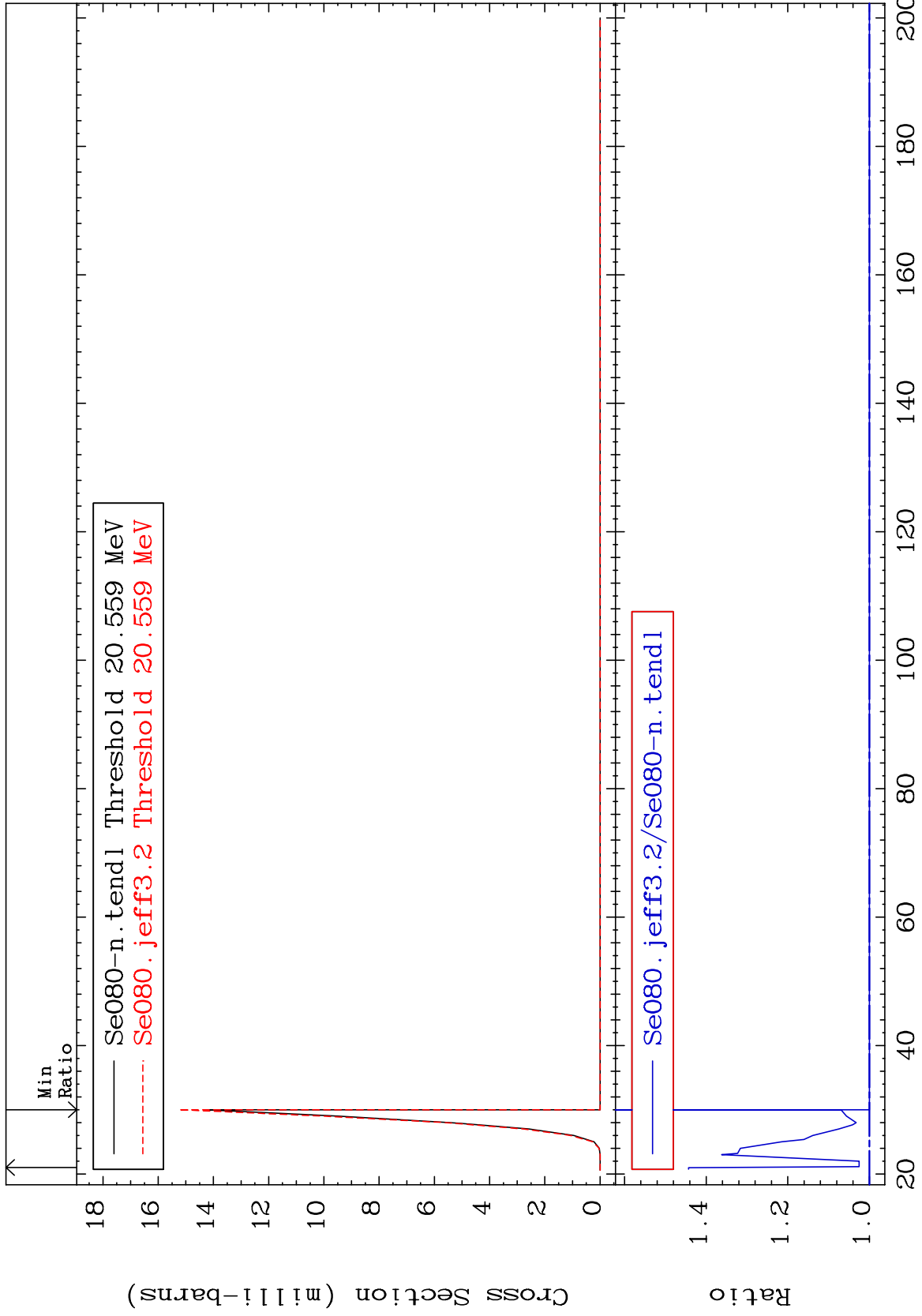
Incident Energy (MeV)

<sup>34</sup>Se-80

MAT 3443

(n,2n) p  
Cross Section

<sup>34</sup>Se-80  
0.000 To 44.30 %



16

Incident Energy (MeV)

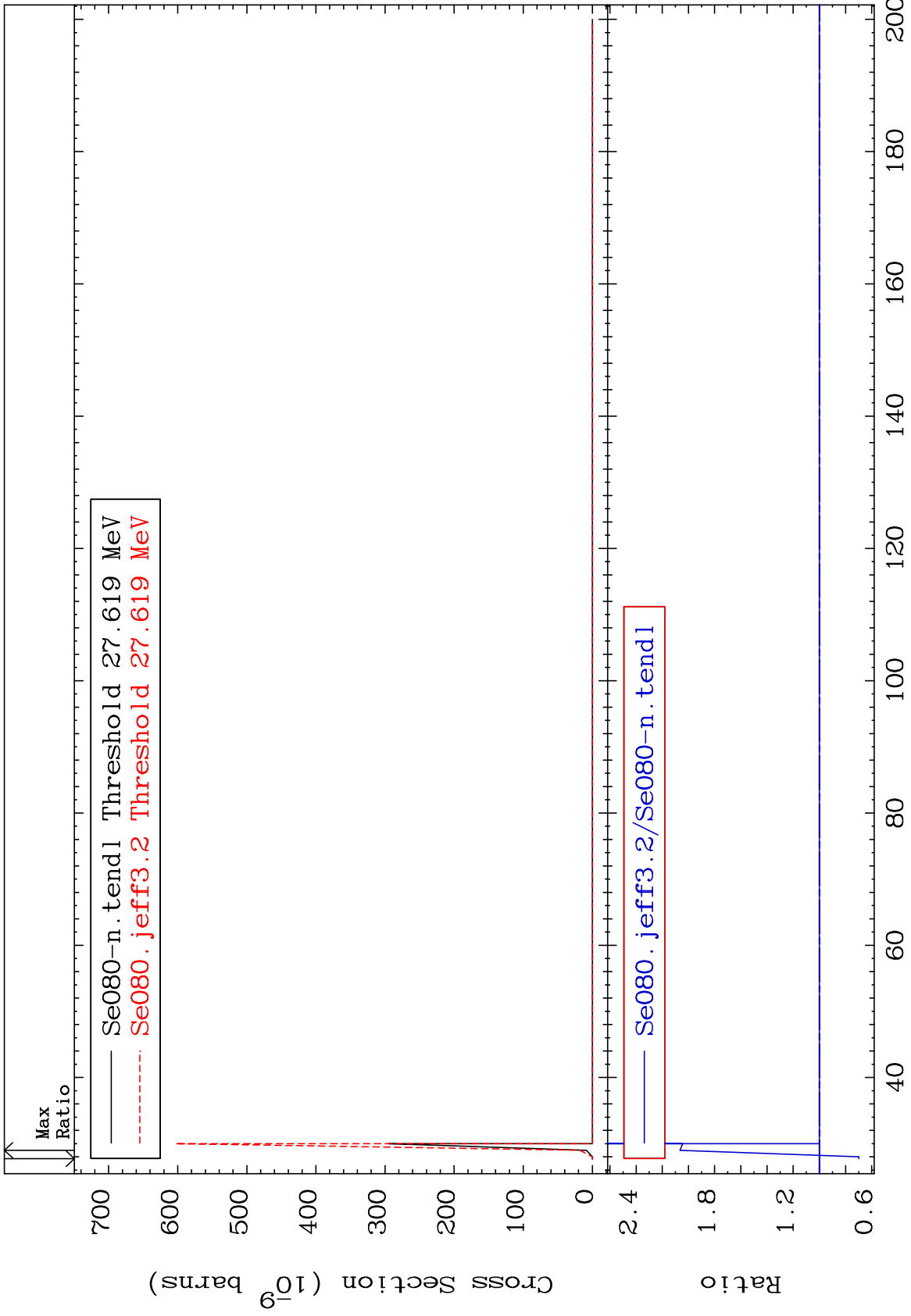
<sup>34</sup>Se-80



MAT 3443

(n,3n) p  
Cross Section

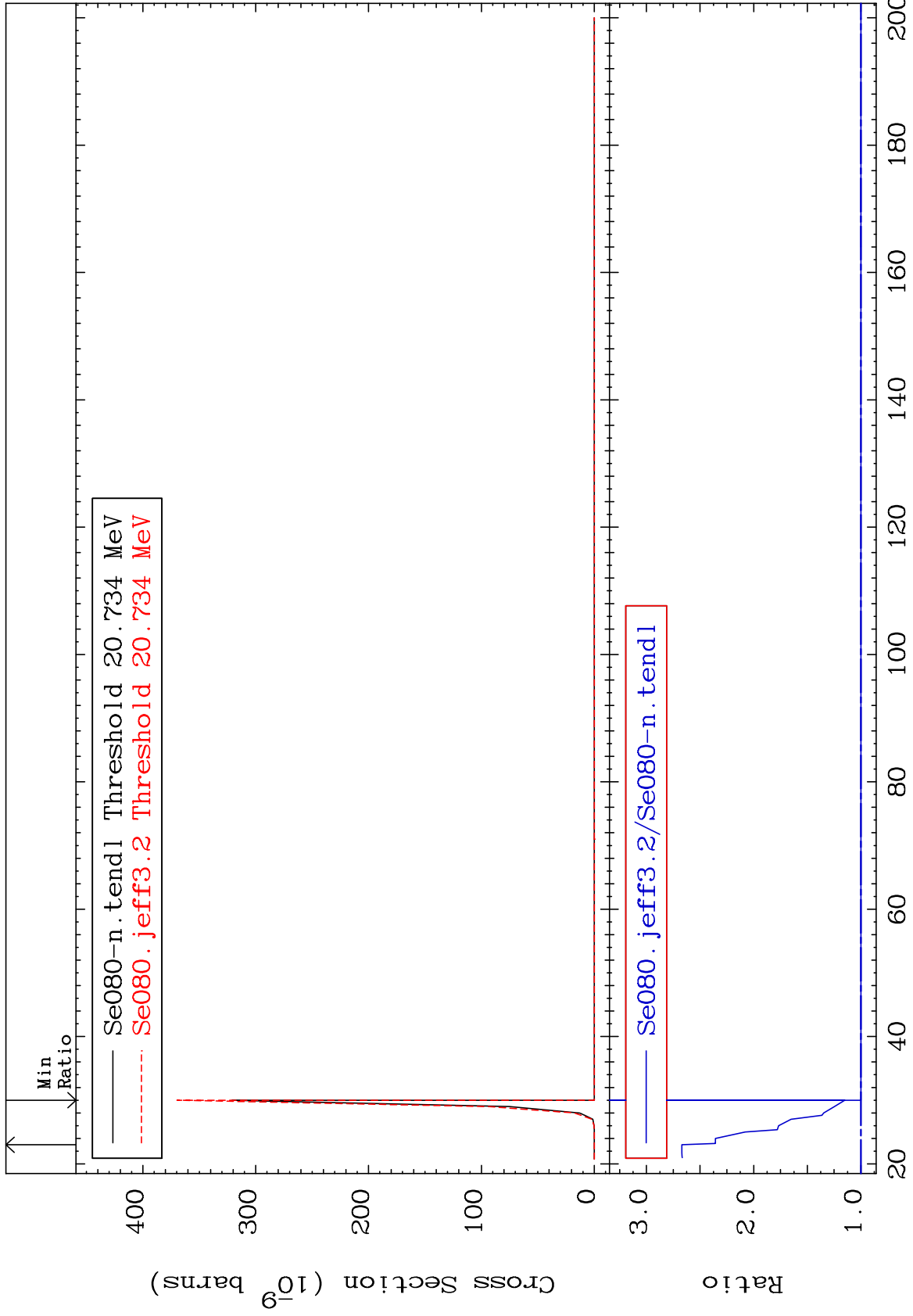
<sup>34</sup>Se-80  
-30.24 To 106.5 %



MAT 3443

(n,2n) p  
Cross Section

<sup>34</sup>Se-80  
To 167.0 %  
0.000



18

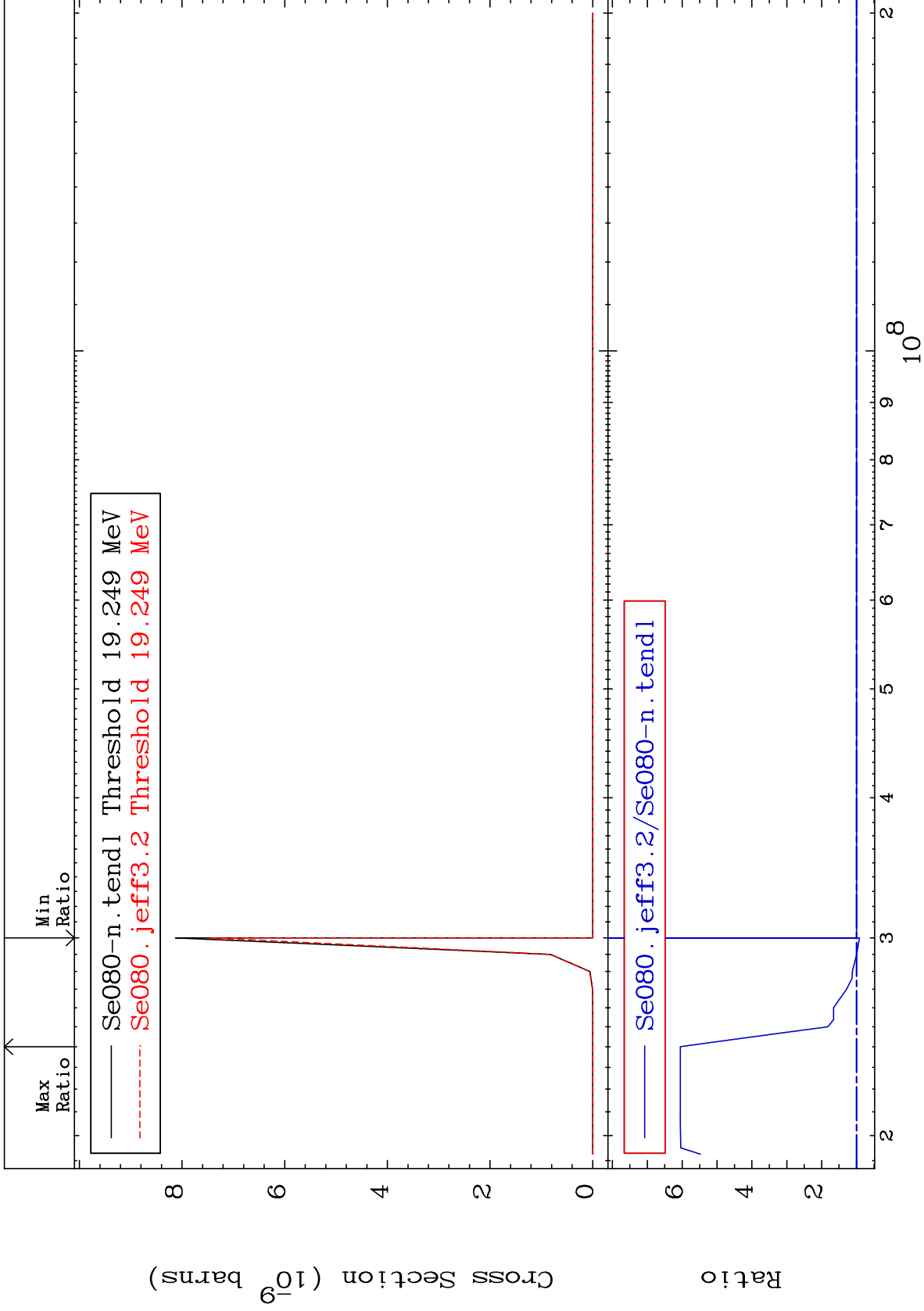
Incident Energy (MeV)

<sup>34</sup>Se-80

MAT 3443

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

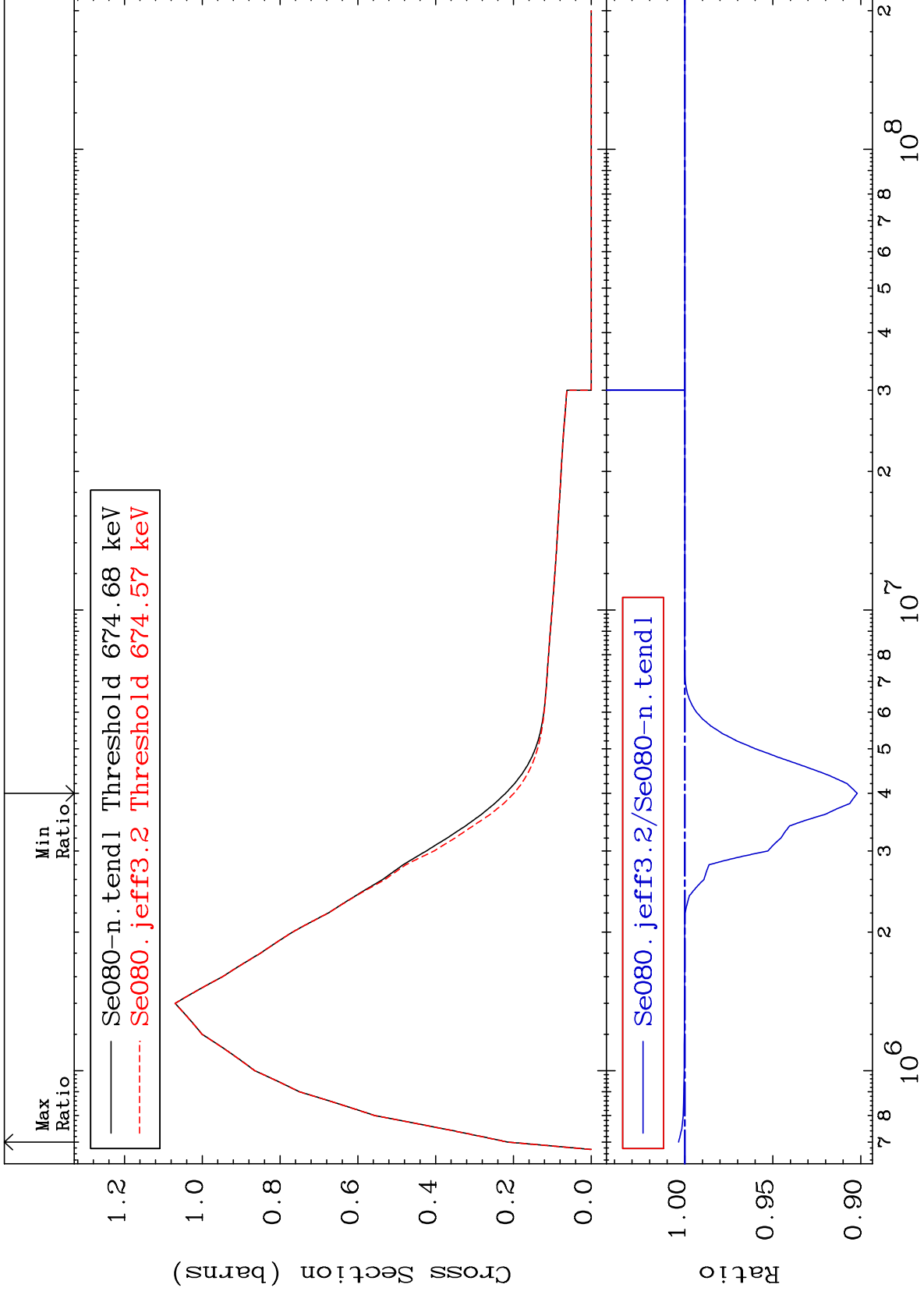
<sup>34</sup>Se-80  
-8.404 To 505.2 %



MAT 3443

666.3 keV (n,n') Level  
Cross Section

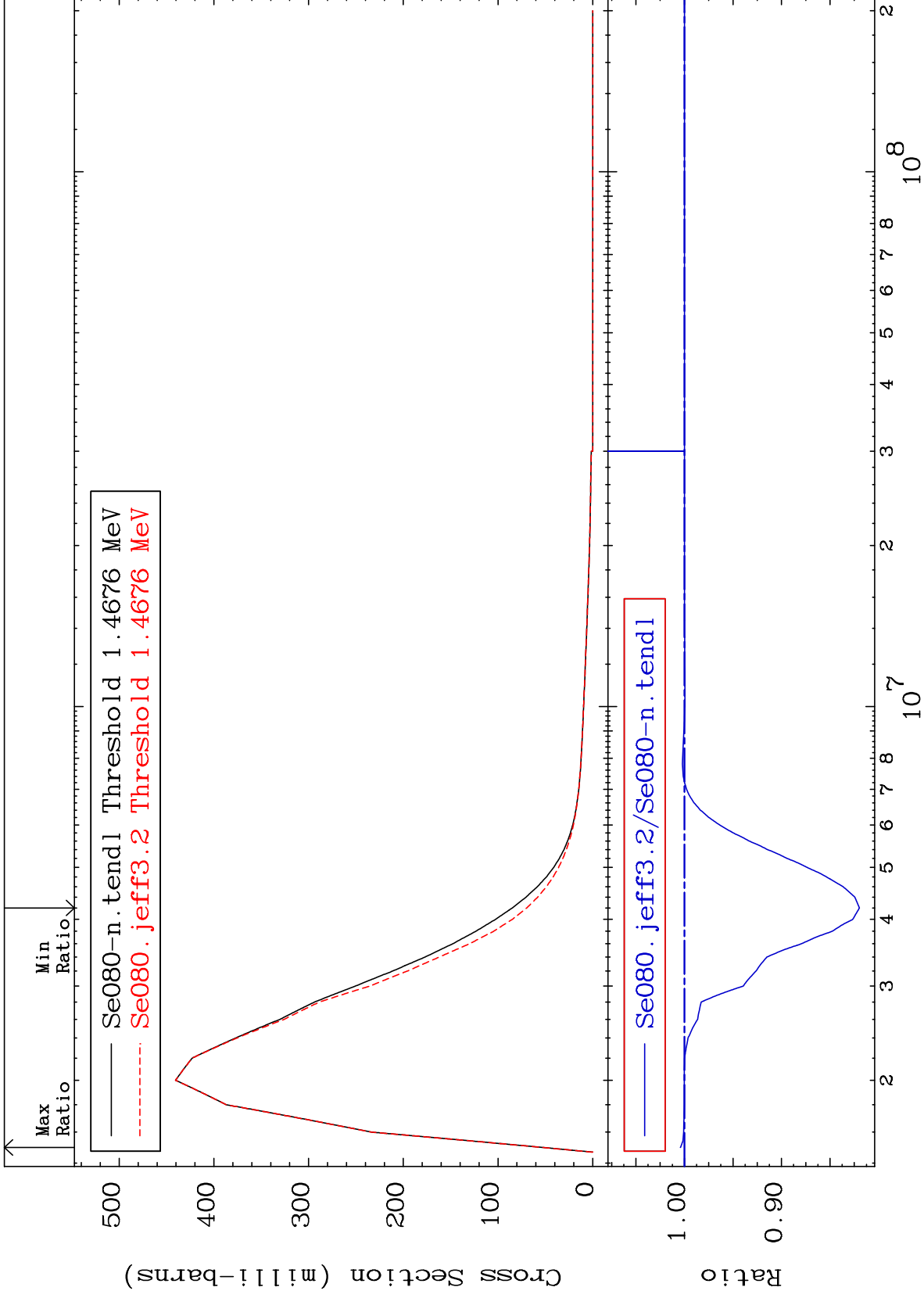
34-Se-80  
-9.800 To 0.352 %



MAT 3443

1.449 MeV (n,n') Level  
Cross Section

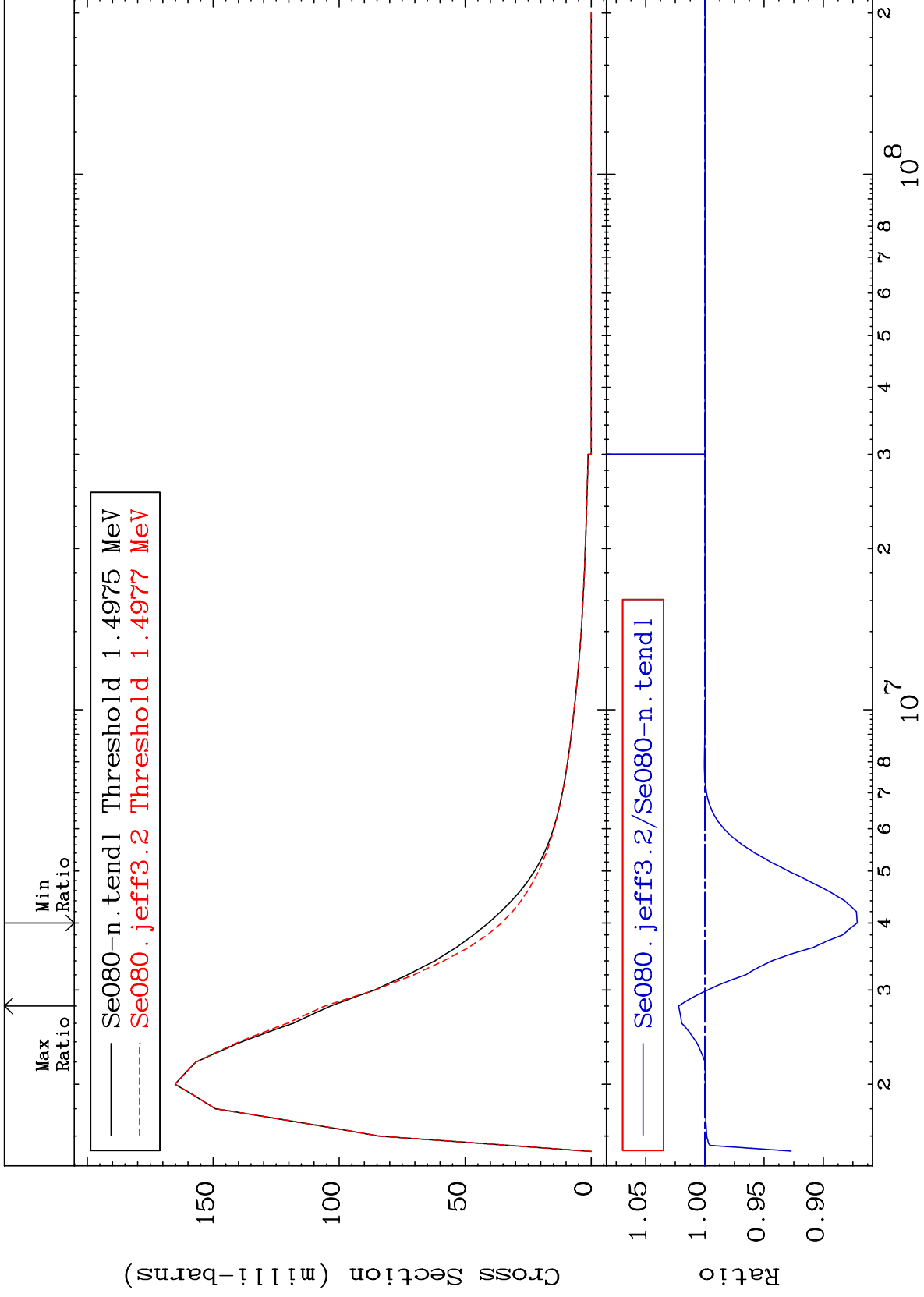
34-Se-80  
-18.03 To 0.421 %



MAT 3443

1.479 MeV (n,n') Level  
Cross Section

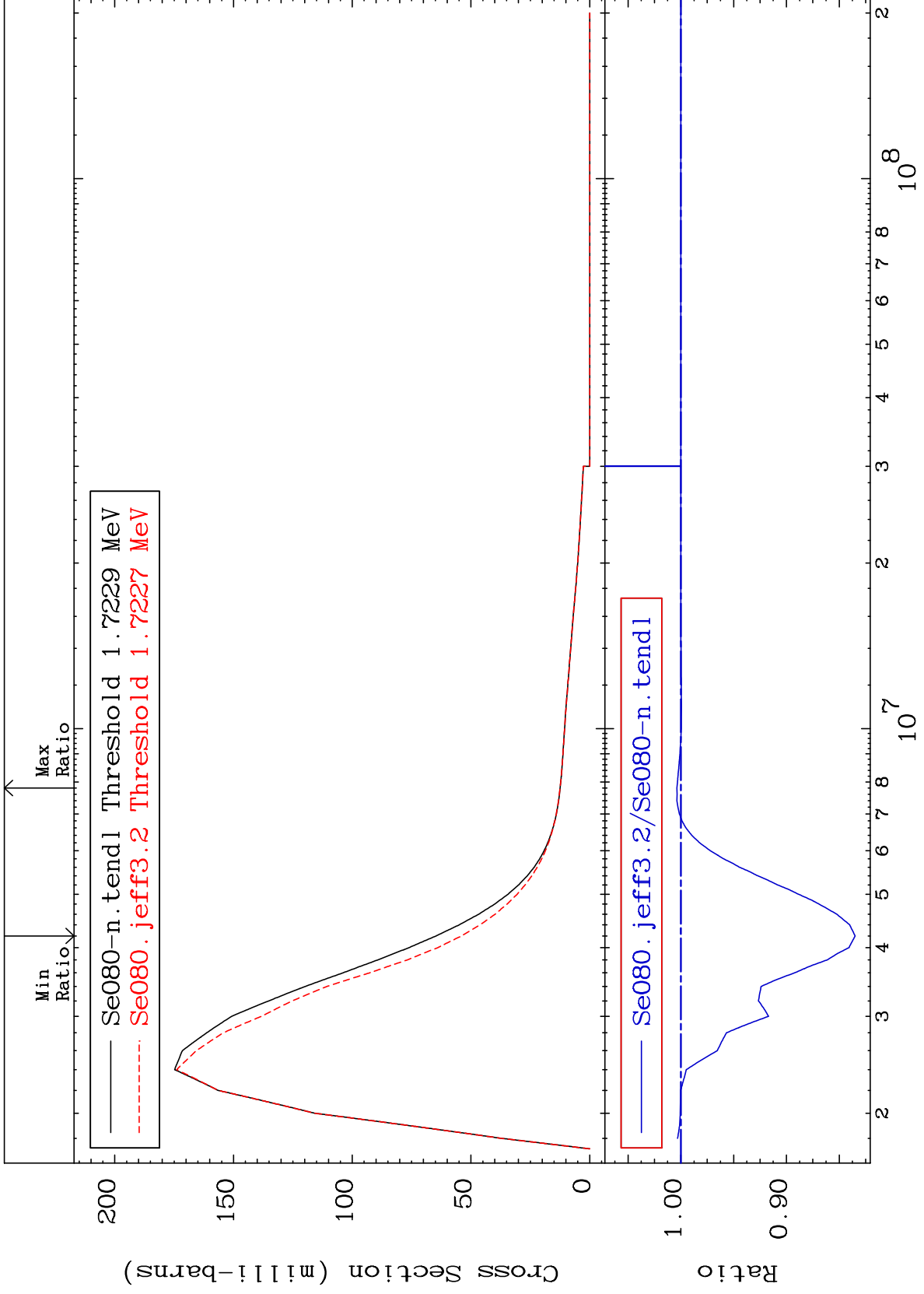
34-Se-80  
-12.87 To 2.223 %



MAT 3443

1.701 MeV (n,n') Level  
Cross Section

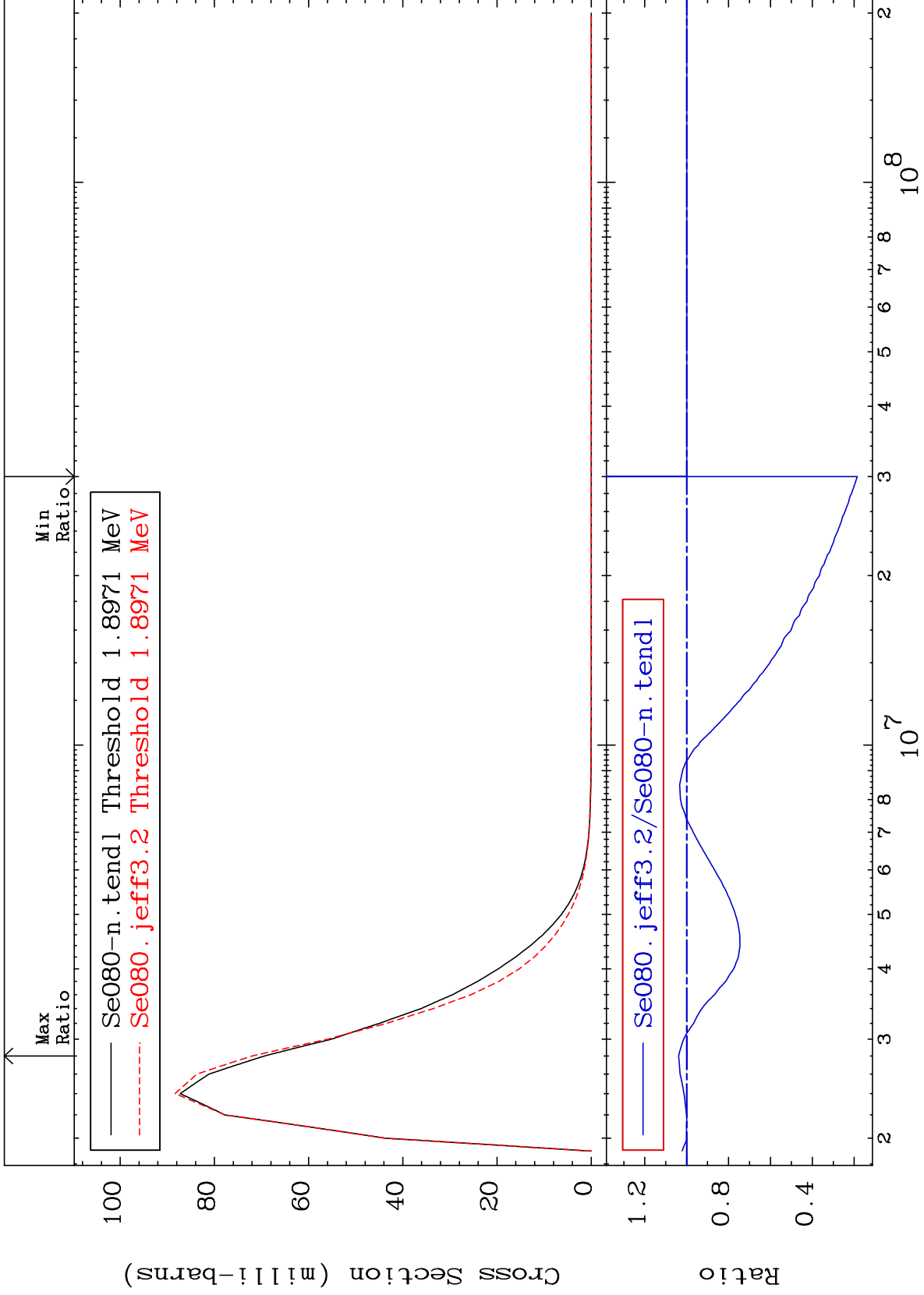
<sup>34</sup>Se-80  
-16.50 To 0.370 %



MAT 3443

1.873 MeV (n,n') Level  
Cross Section

<sup>34</sup>Se-80  
-81.46 To 3.824 %

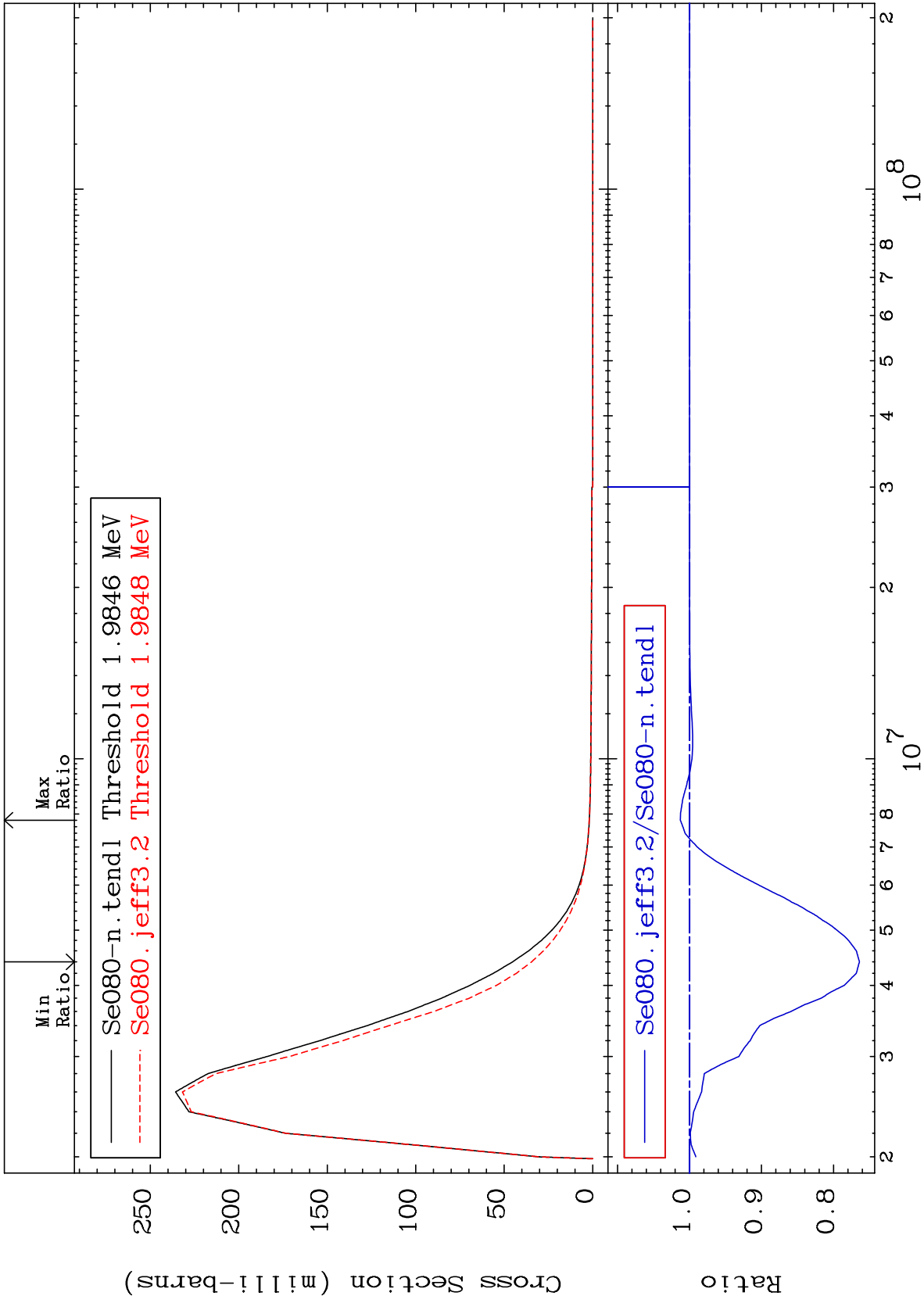




MAT 3443

1.960 MeV (n,n') Level  
Cross Section

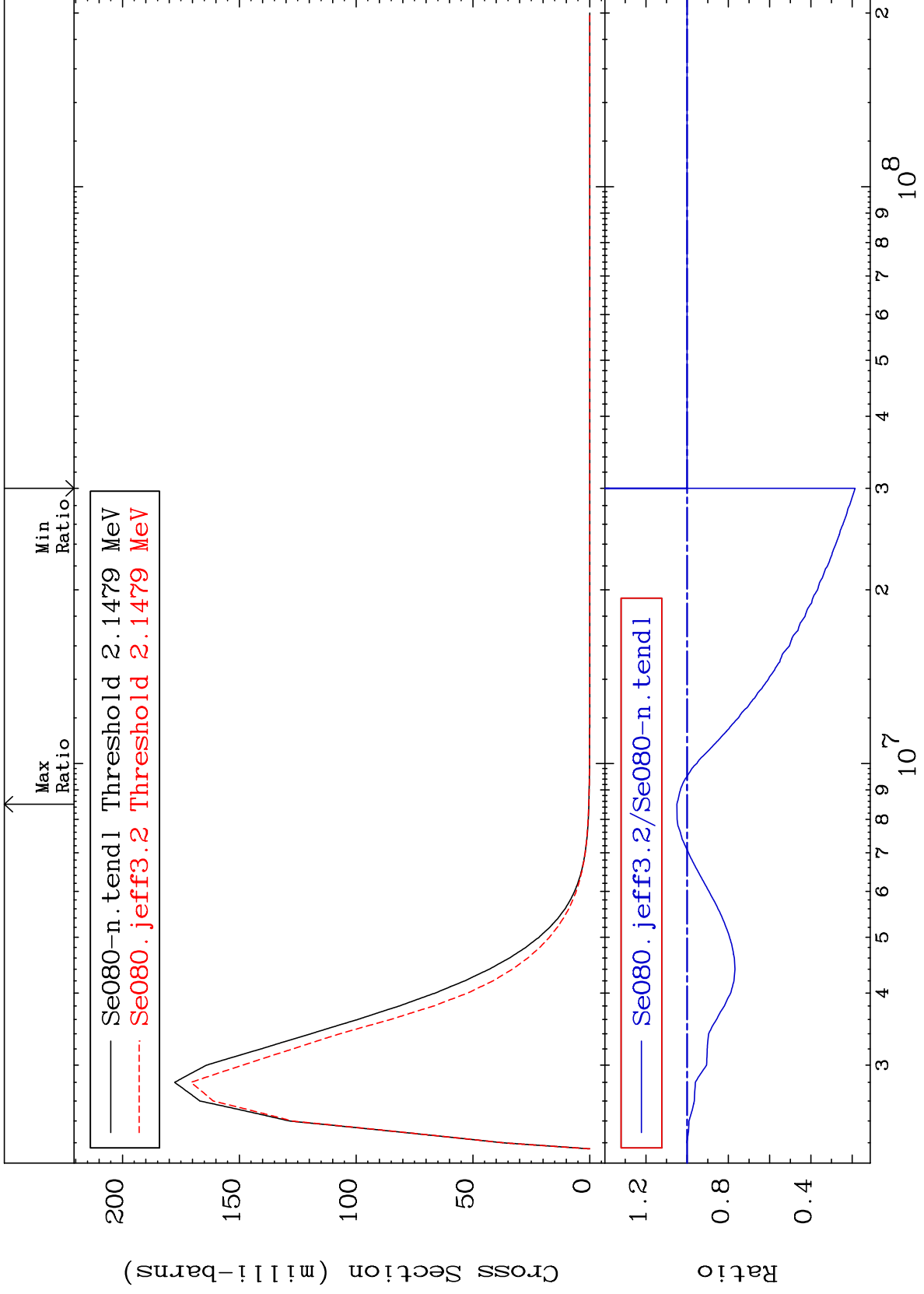
<sup>34</sup>Se-80  
-23.61 To 1.277 %



MAT 3443

2.121 MeV (n,n') Level  
Cross Section

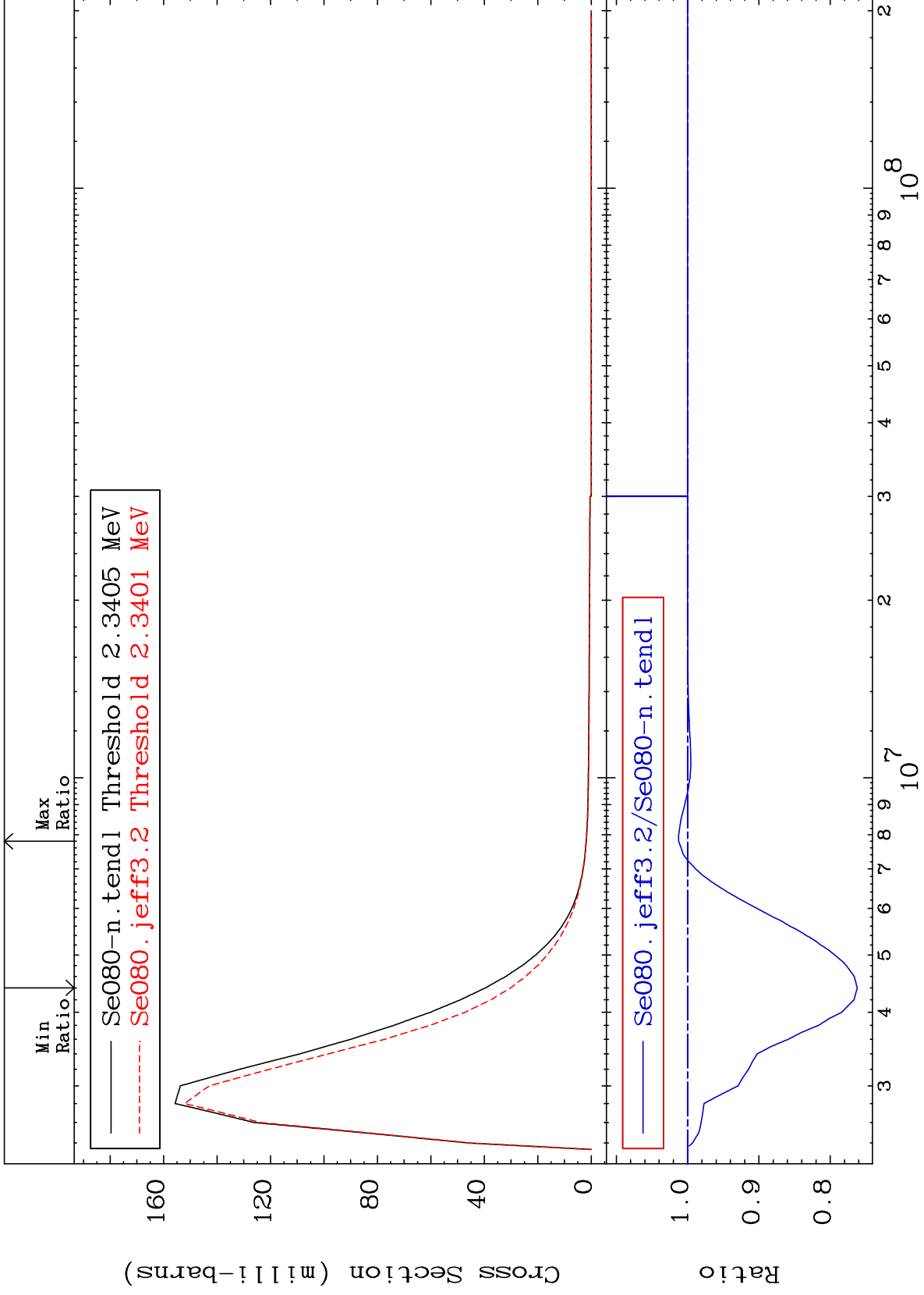
34-Se-80  
-81.43 To 4.956 %



MAT 3443

2.311 MeV (n,n') Level  
Cross Section

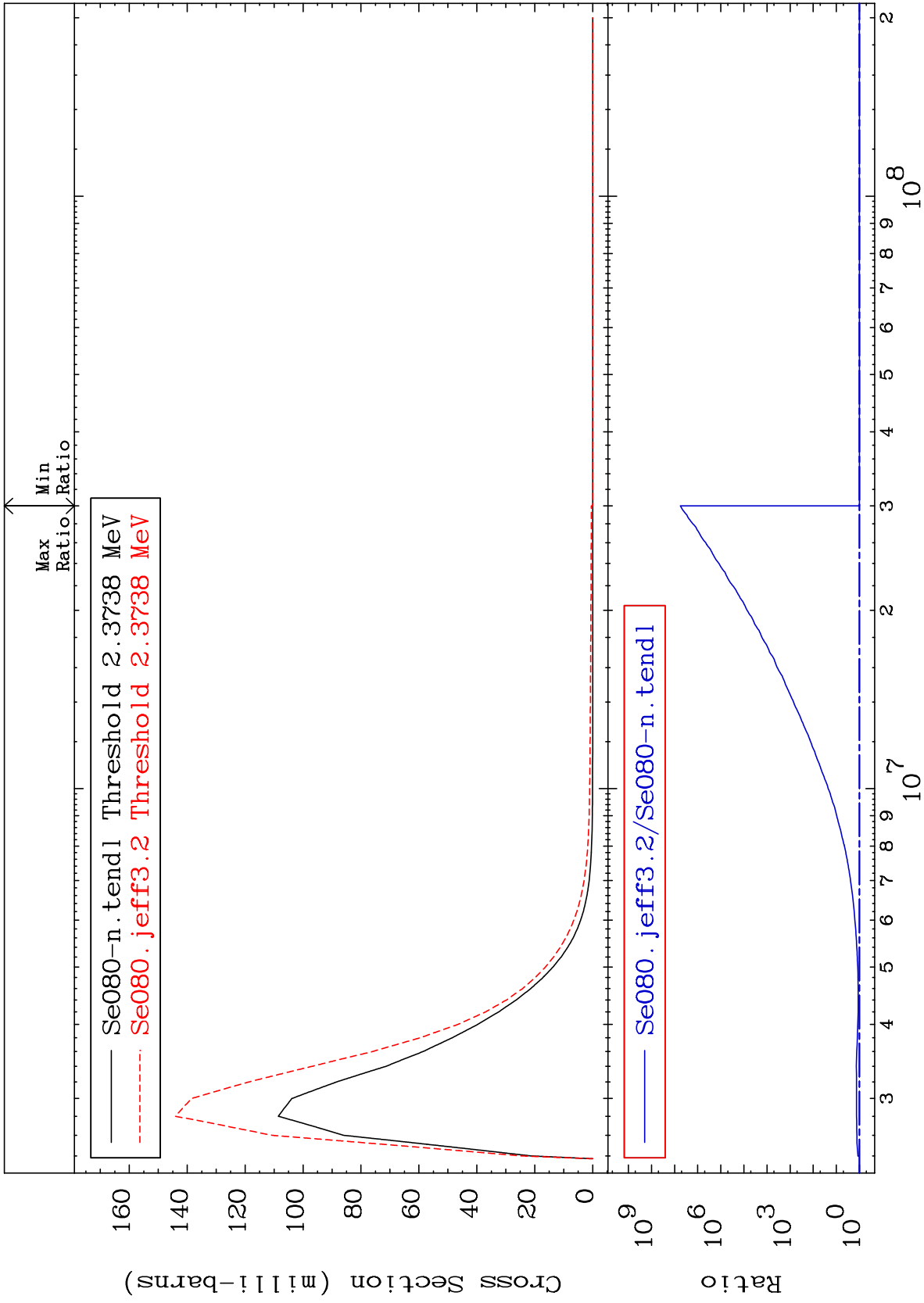
34-Se-80  
-23.79 To 1.260 %



MAT 3443

2.344 MeV (n,n') Level  
Cross Section

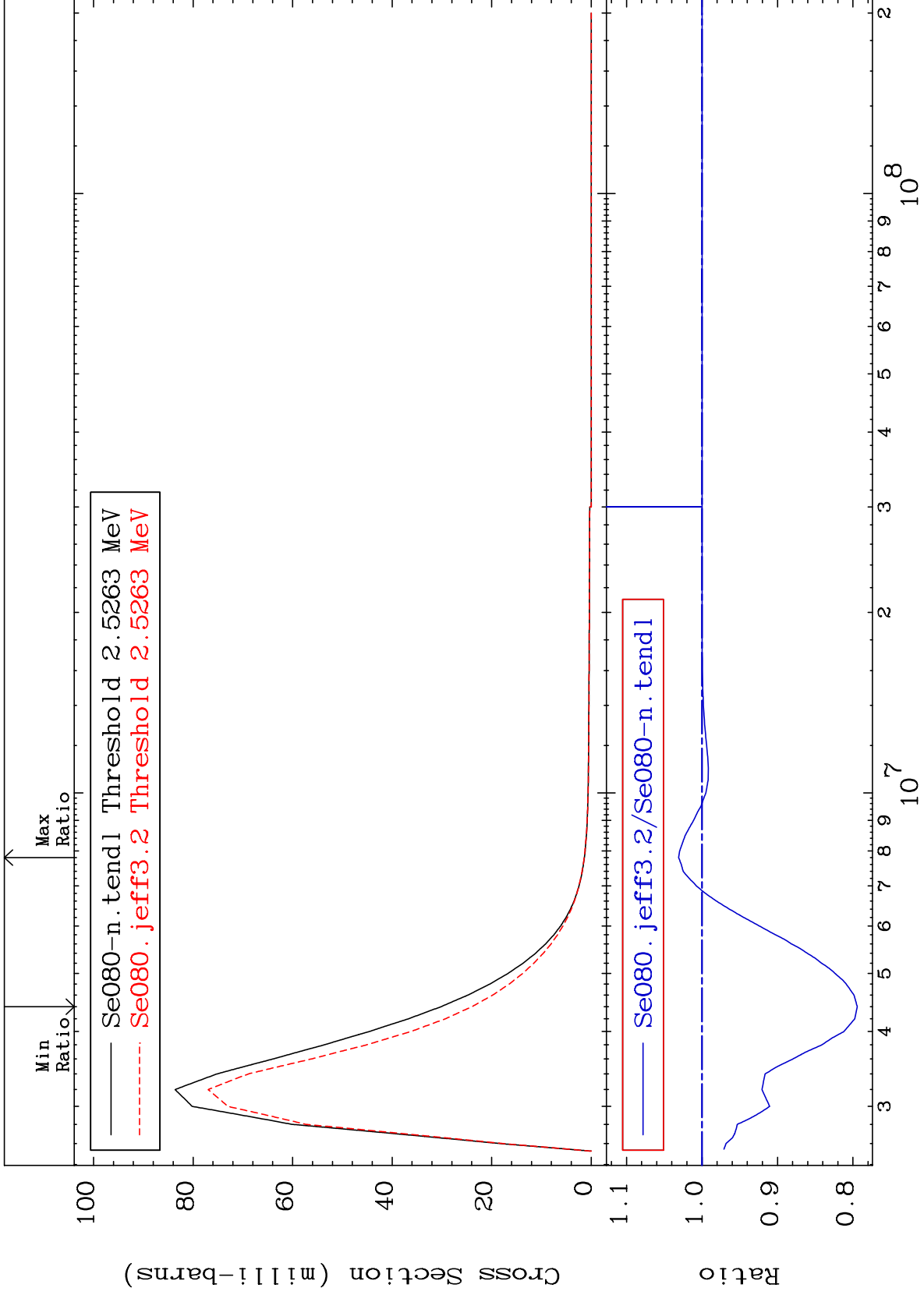
34-Se-80  
To 9999. %  
0.000



MAT 3443

2.495 MeV (n,n') Level  
Cross Section

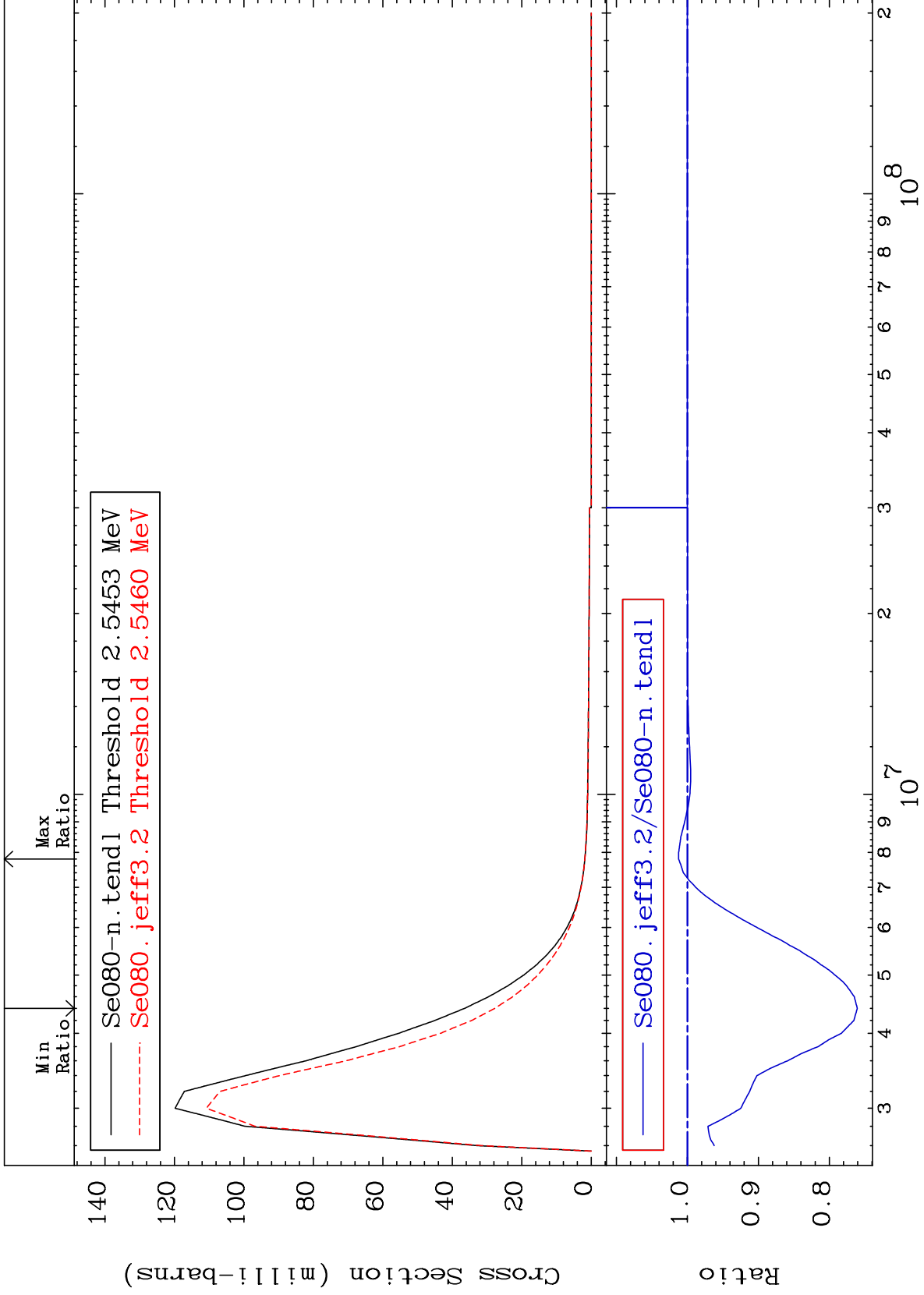
<sup>34</sup>Se-80  
-20.57 To 3.097 %



MAT 3443

2.514 MeV (n,n') Level  
Cross Section

<sup>34</sup>Se-80  
-23.93 To 1.238 %



30

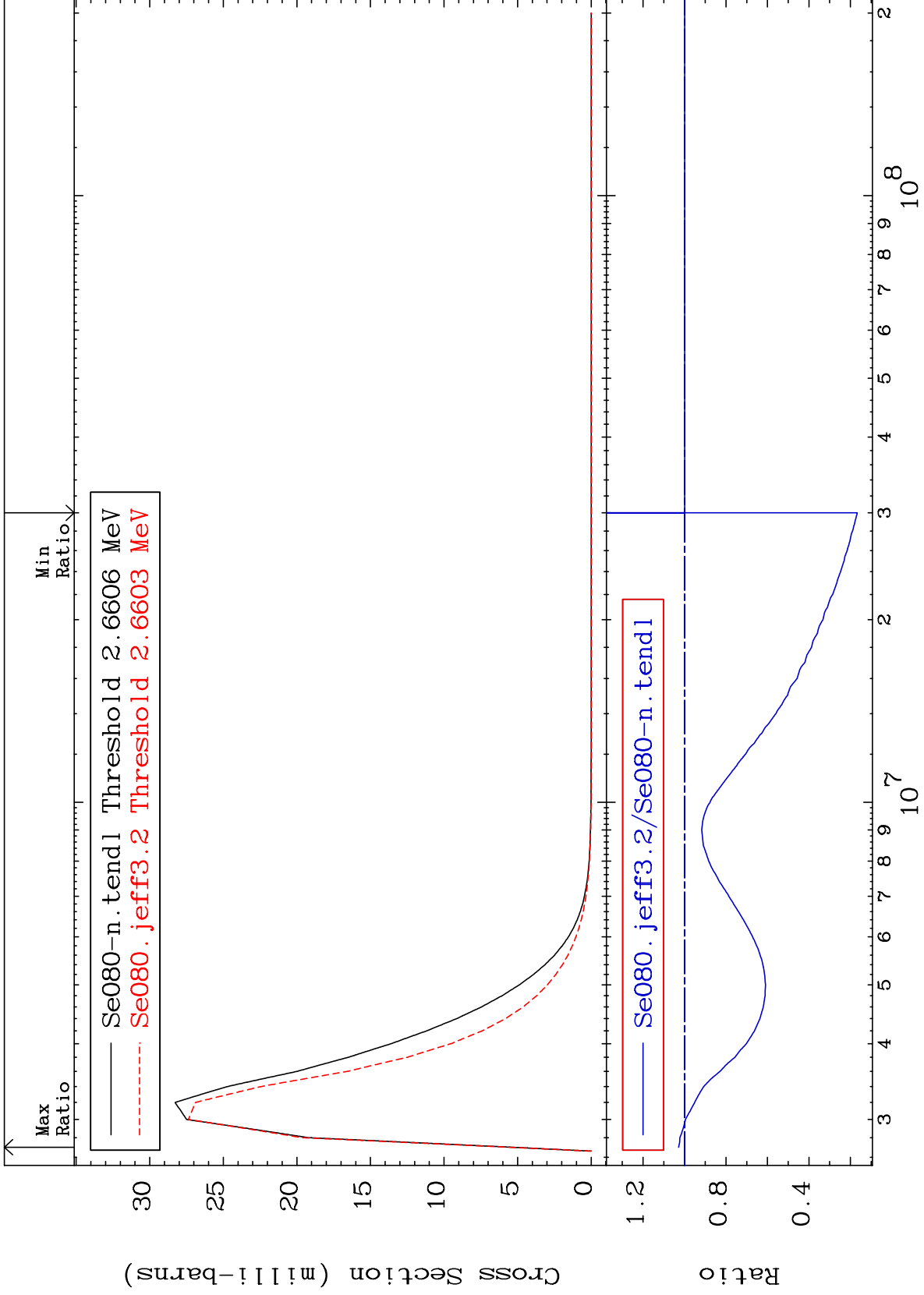
Incident Energy (eV)

<sup>34</sup>Se-80

MAT 3443

2.627 MeV (n,n') Level  
Cross Section

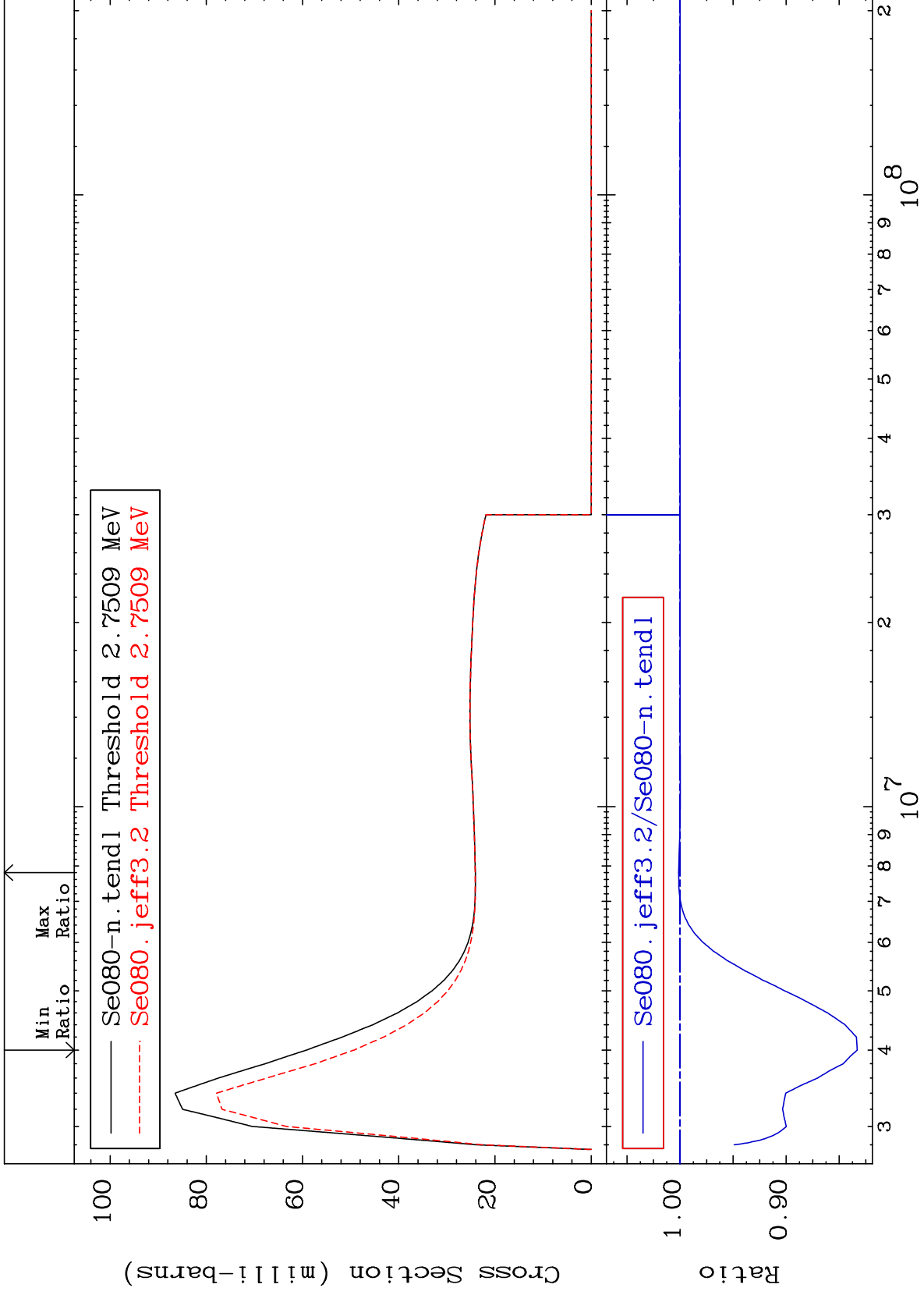
34-Se-80  
-83.30 To 2.838 %



MAT 3443

2.717 MeV (n,n') Level  
Cross Section

<sup>34</sup>Se-80  
-16.70 To 0.132 %

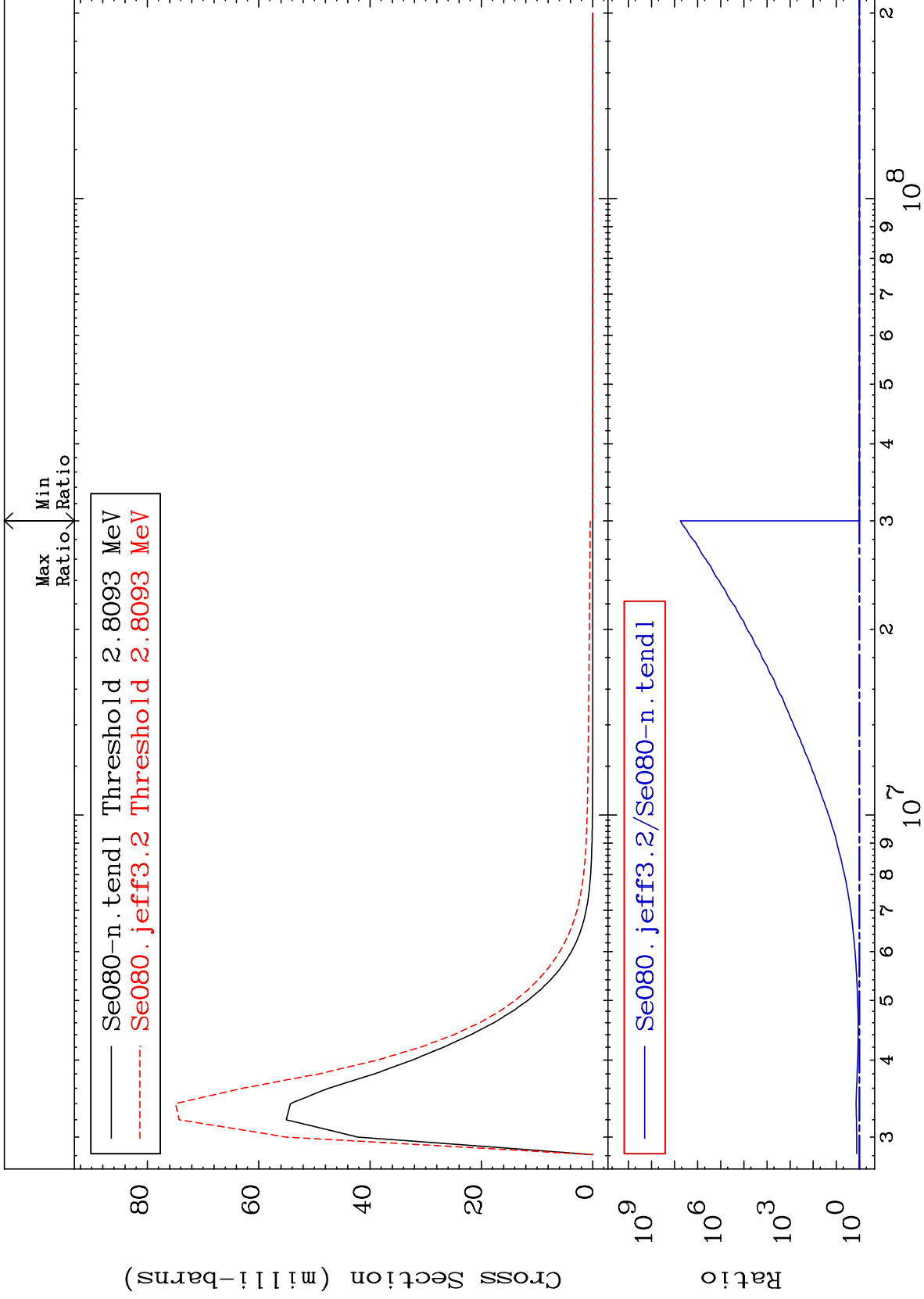




MAT 3443

2.774 MeV (n,n') Level  
Cross Section

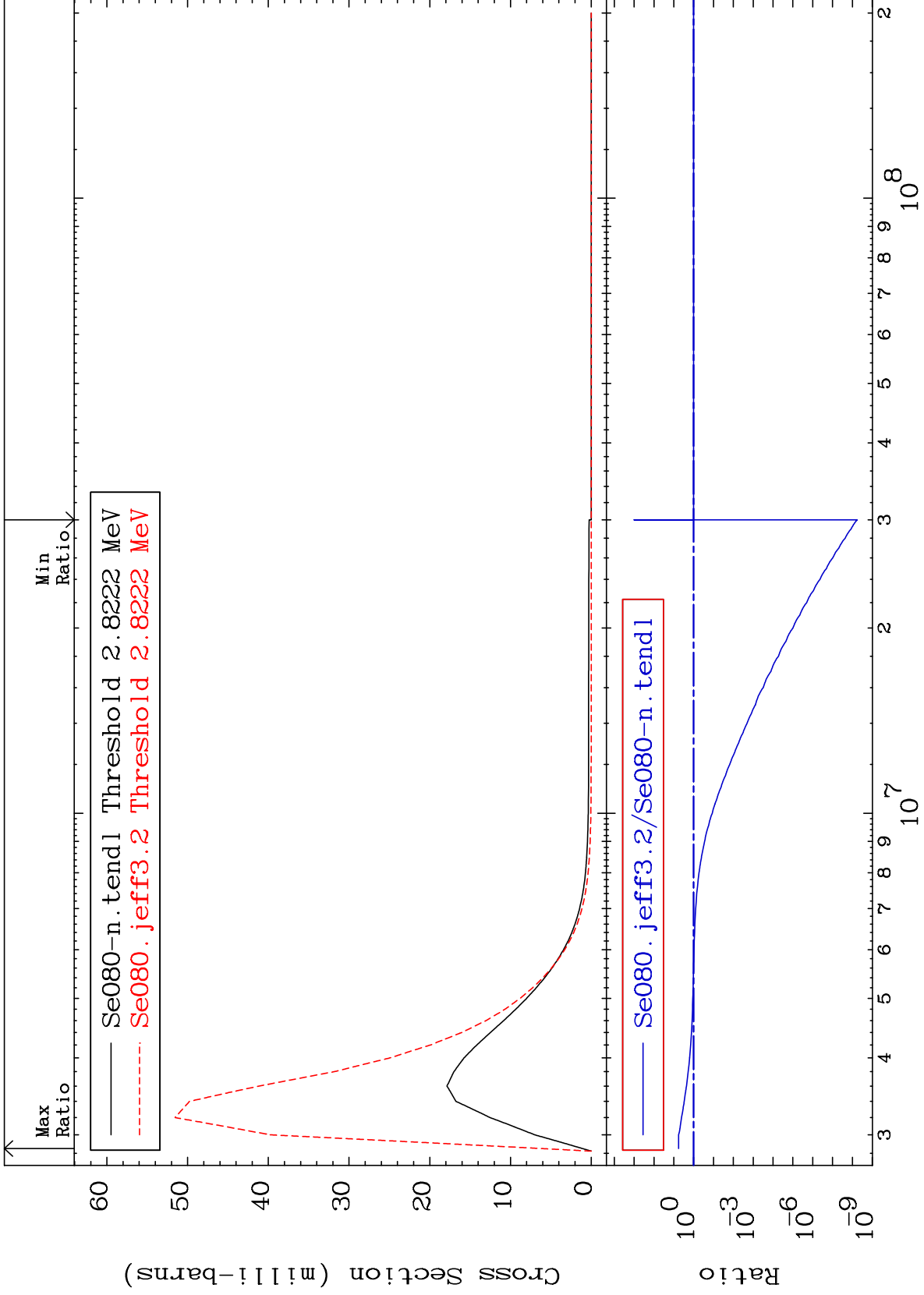
0.000 To 9999. %  
34-Se-80



MAT 3443

2.787 MeV (n,n') Level  
Cross Section

34-Se-80  
-100.0 To 470.5 %



34

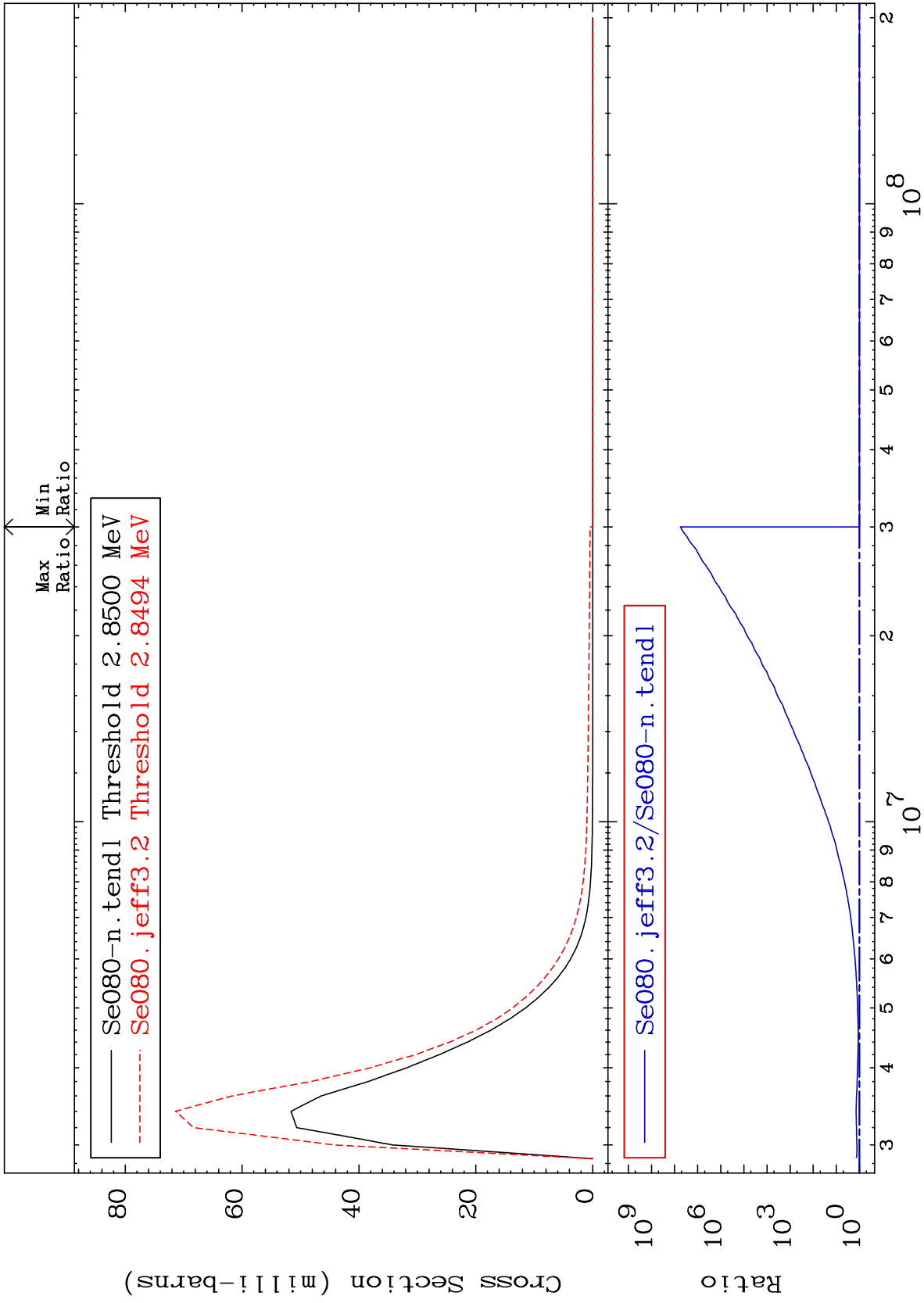
Incident Energy (eV)

34-Se-80

MAT 3443

2.815 MeV (n,n') Level  
Cross Section

34-Se-80  
To 9999. %  
0.000



35

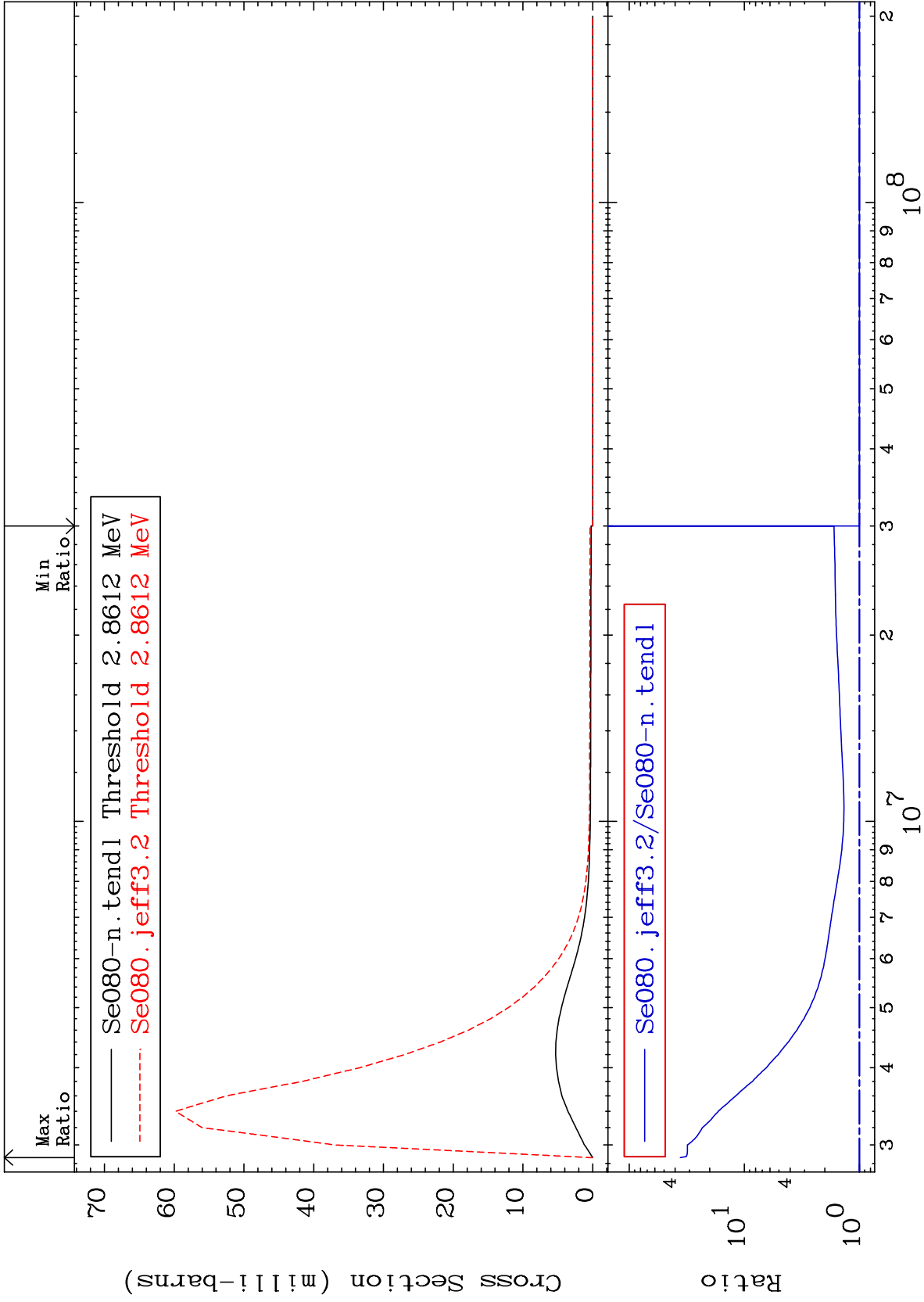
Incident Energy (eV)

34-Se-80

MAT 3443

2.826 MeV (n,n') Level  
Cross Section

34-Se-80  
To 3501. %



36

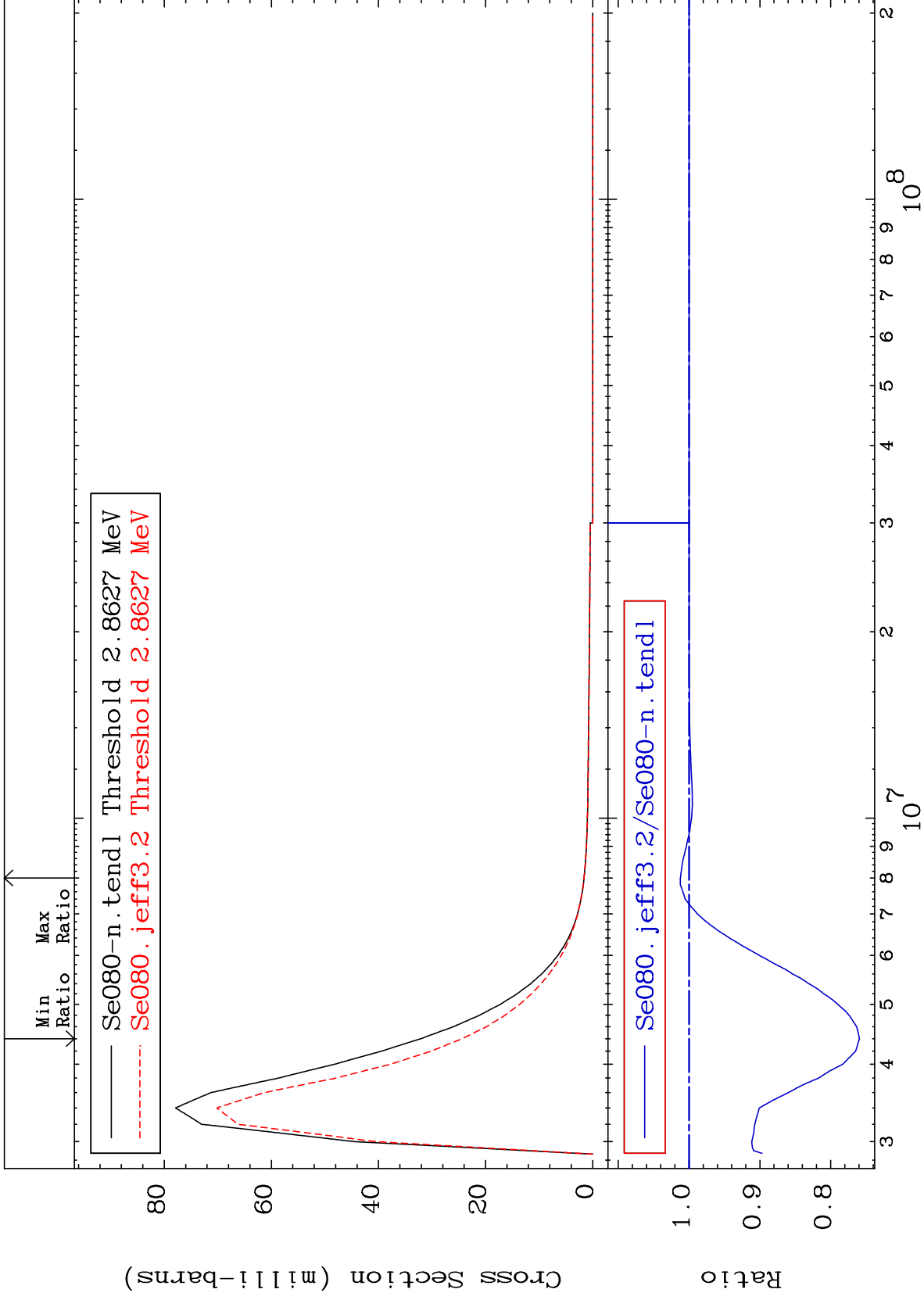
Incident Energy (eV)

34-Se-80

MAT 3443

2.827 MeV (n,n') Level  
Cross Section

34-Se-80  
-24.06 To 1.228 %



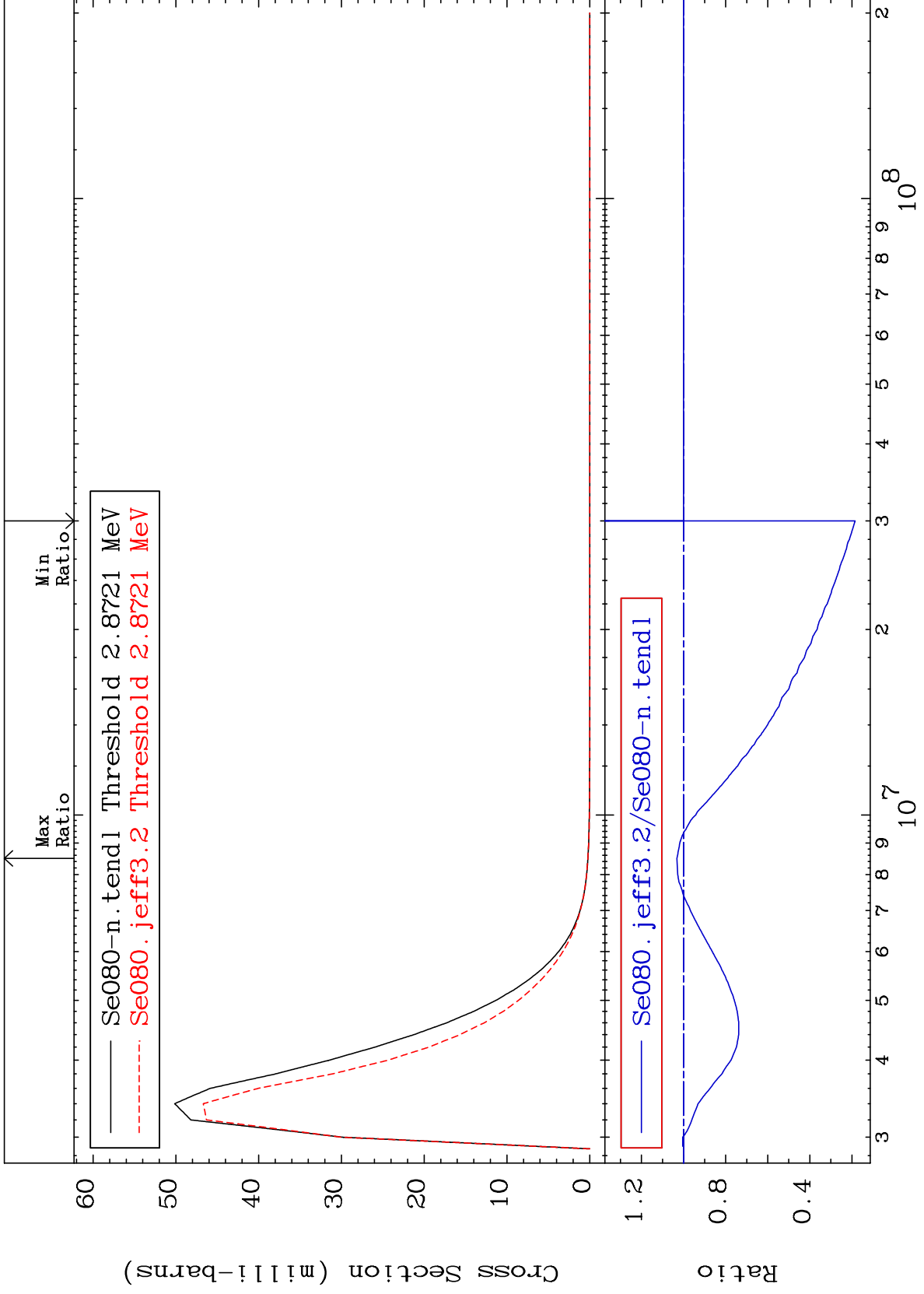
37

34-Se-80

MAT 3443

2.836 MeV (n,n') Level  
Cross Section

<sup>34</sup>Se-80  
-81.50 To 3.161 %



38

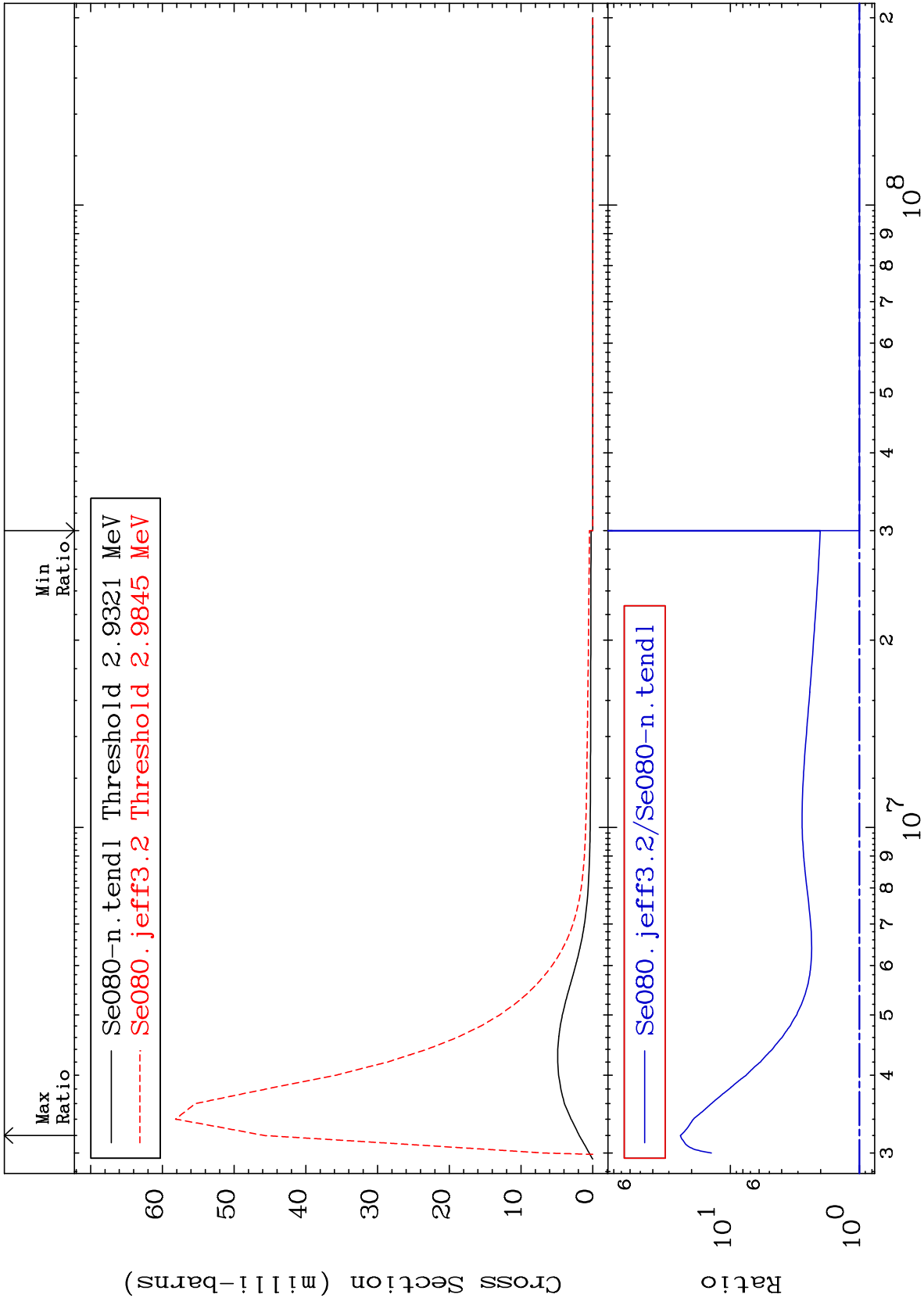
Incident Energy (eV)

<sup>34</sup>Se-80

MAT 3443

2.895 MeV (n,n') Level  
Cross Section

34-Se-80  
To 2343. %



39

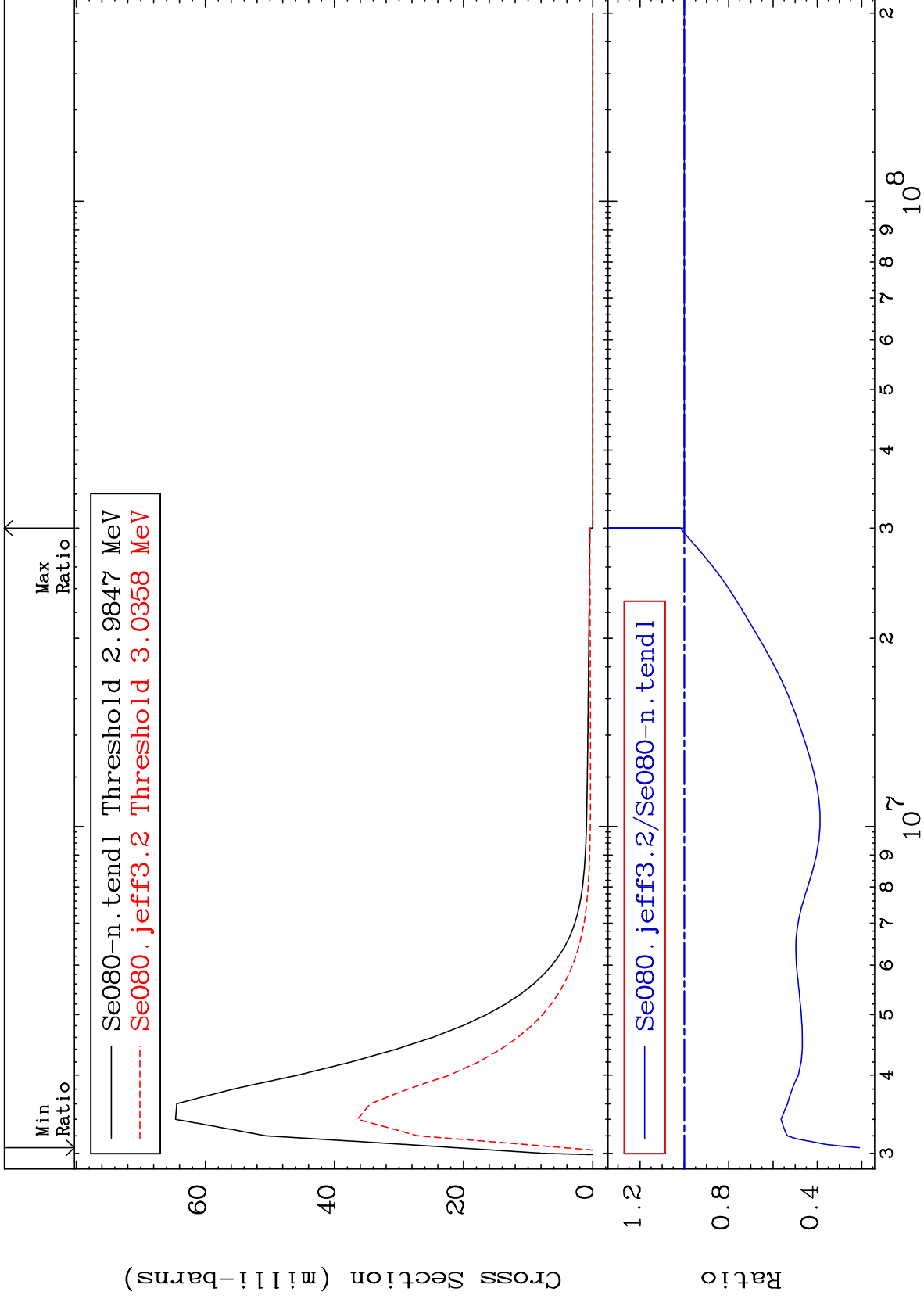
Incident Energy (eV)

34-Se-80

MAT 3443

2.948 MeV (n,n') Level  
Cross Section

34-Se-80  
-79.00 To 1.813 %



40

Incident Energy (eV)

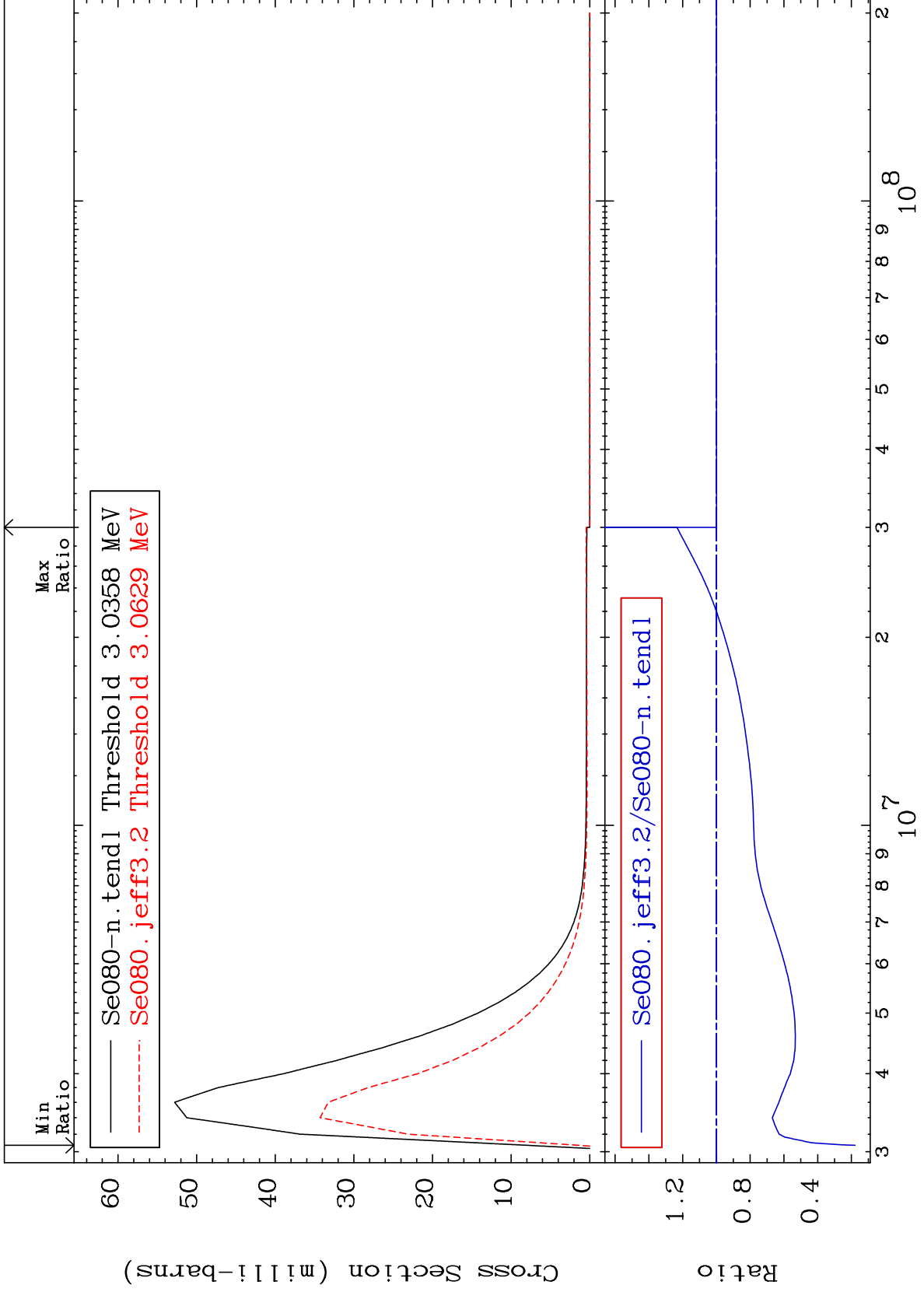
34-Se-80



MAT 3443

2.998 MeV (n,n') Level  
Cross Section

34-Se-80  
-82.19 To 23.39 %



41

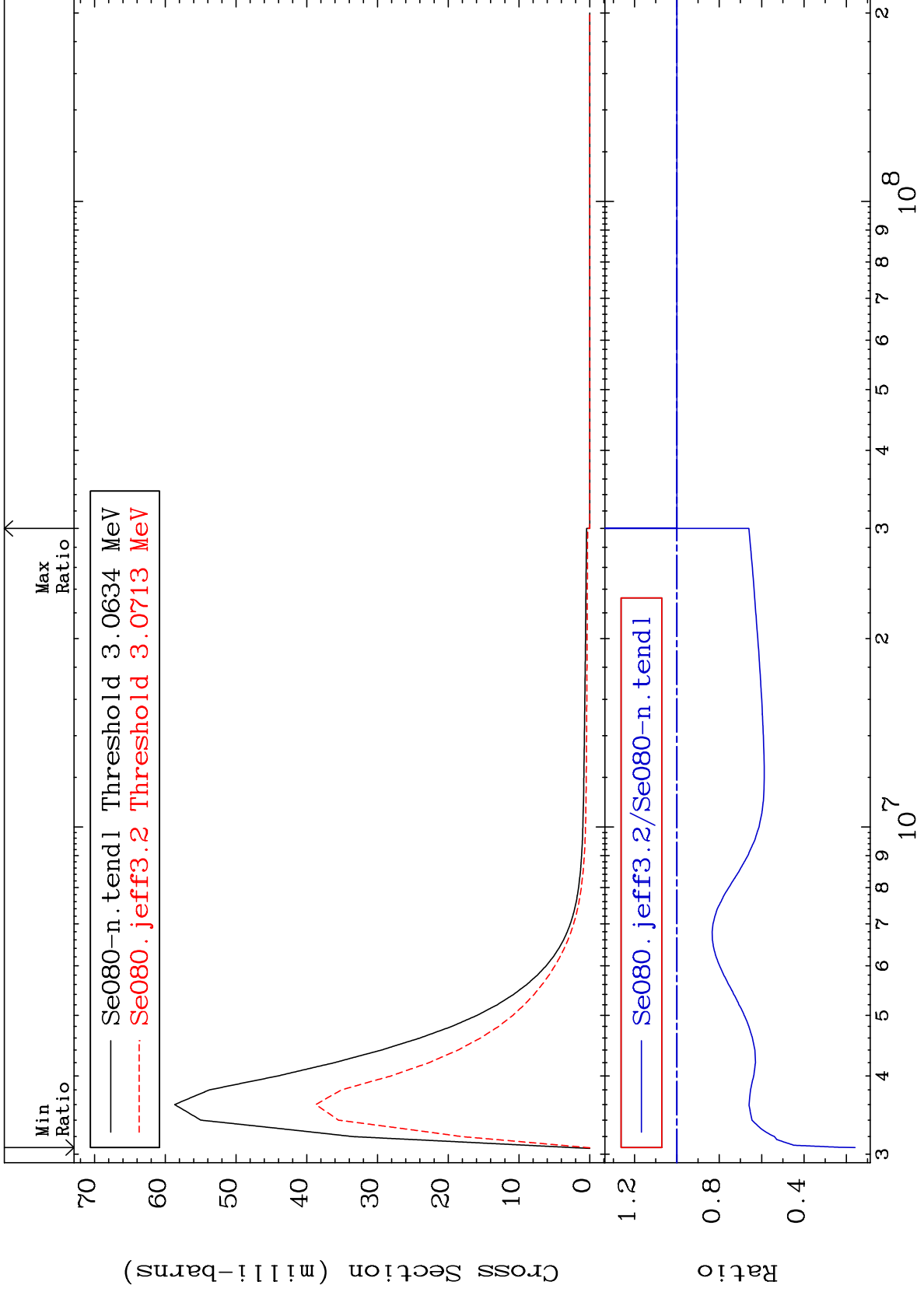
Incident Energy (eV)

34-Se-80

MAT 3443

3.025 MeV (n,n') Level  
Cross Section

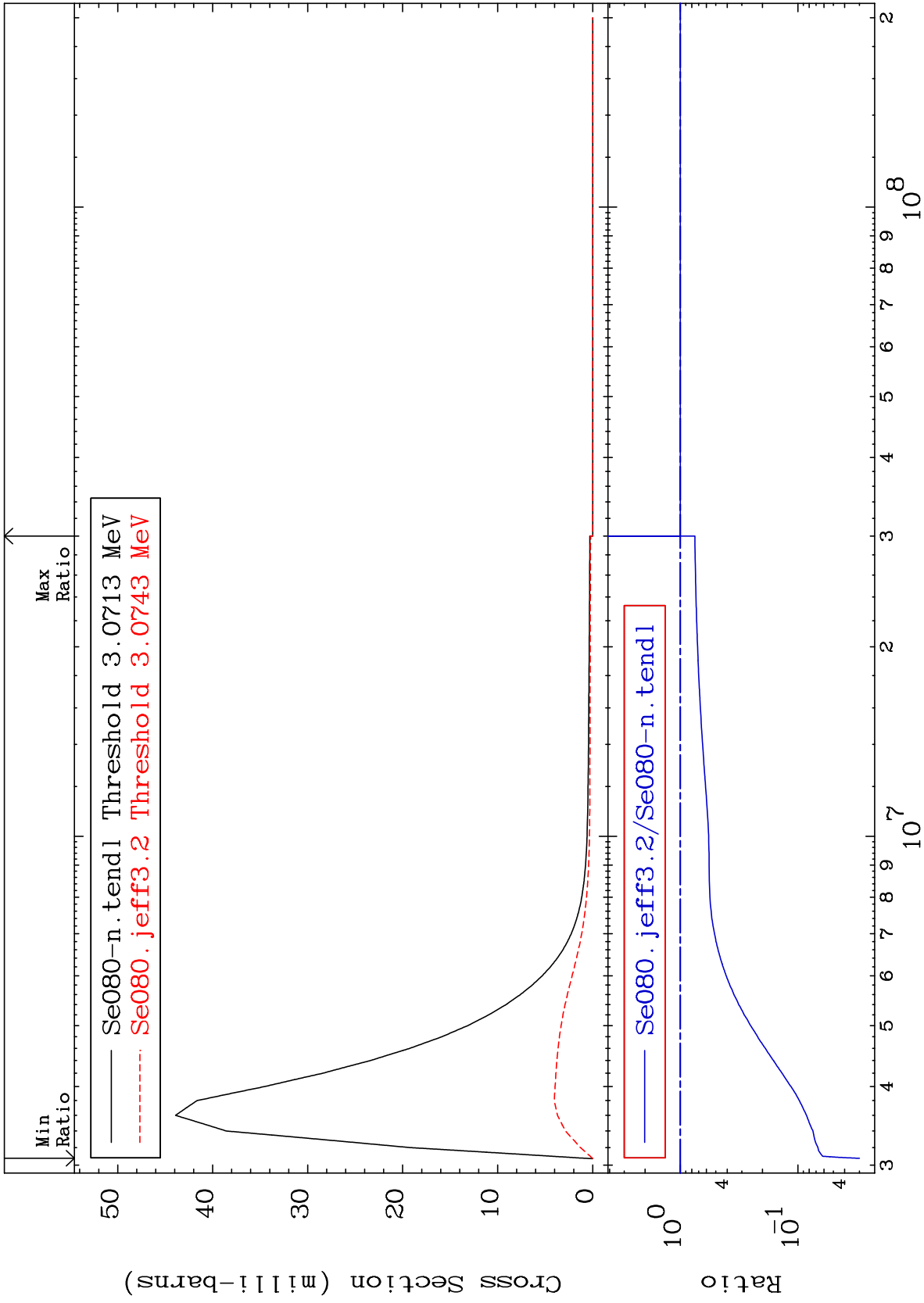
34-Se-80  
-84.12 To 0.000 %



MAT 3443

3.033 MeV (n,n') Level  
Cross Section

34-Se-80  
-97.01 To 0.000 %



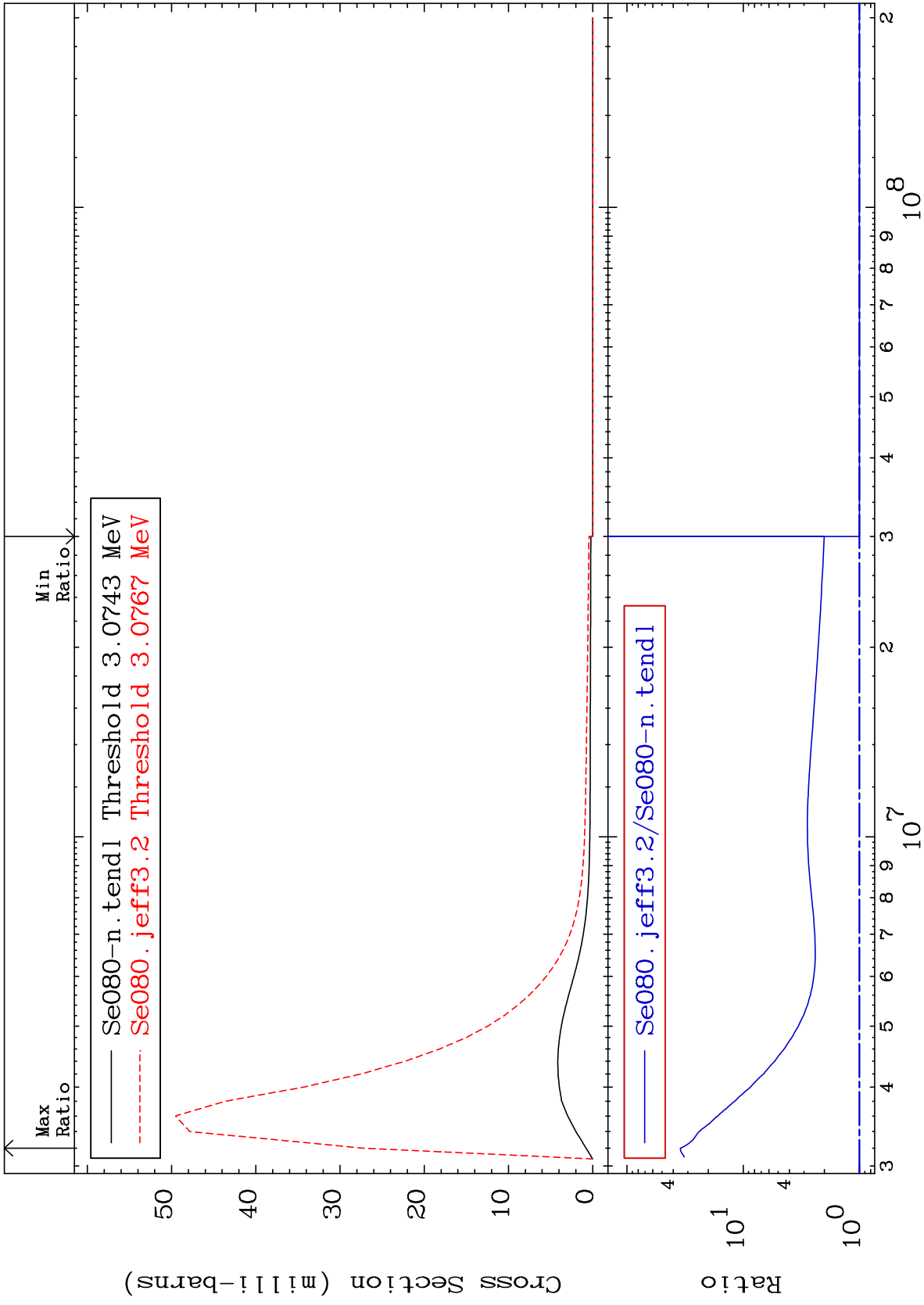
43

34-Se-80

MAT 3443

3.036 MeV (n,n') Level  
Cross Section

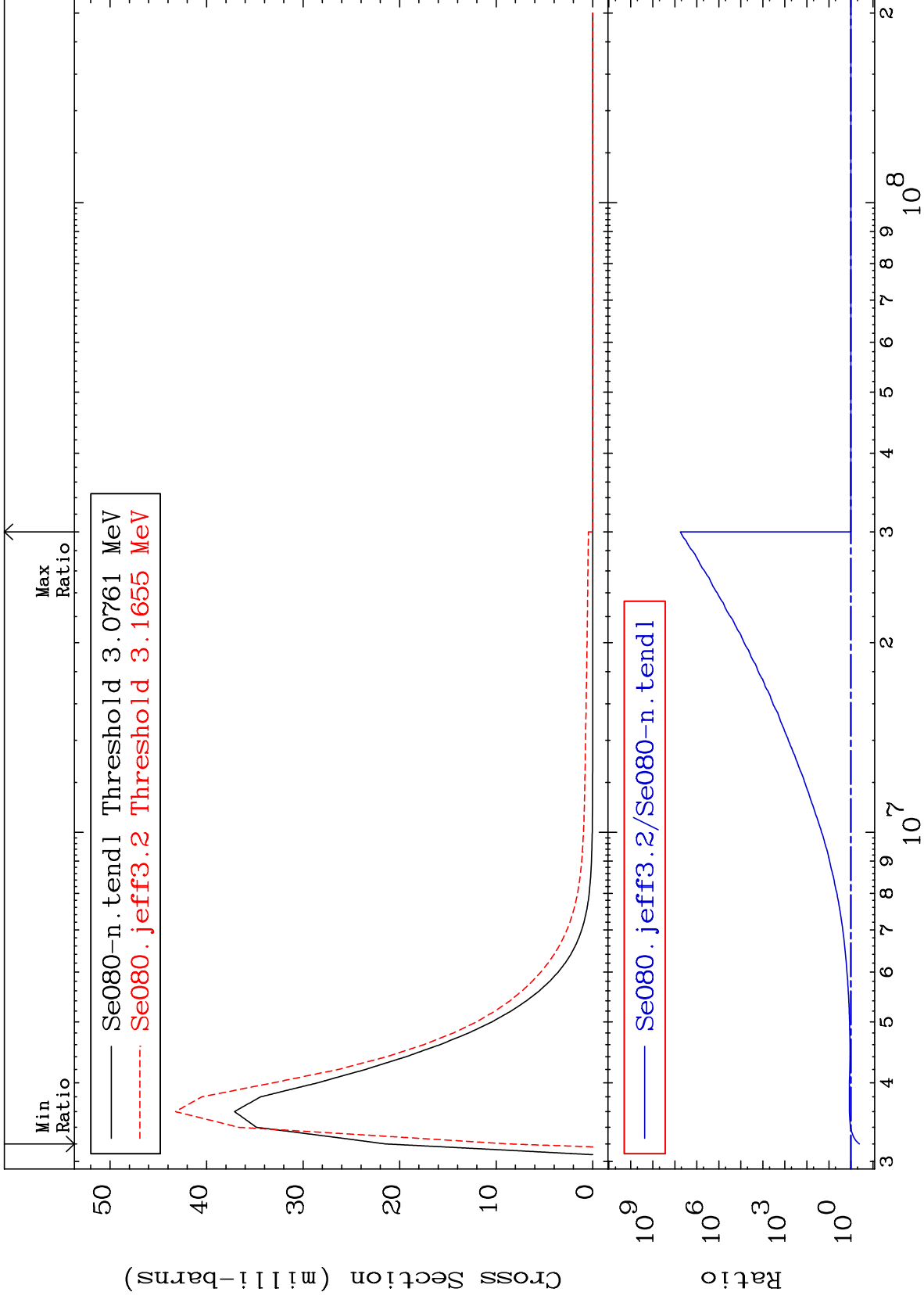
34-Se-80  
0.000 To 3375. %



MAT 3443

3.038 MeV (n,n') Level  
Cross Section

34-Se-80  
-59.00 To 9999. %



45

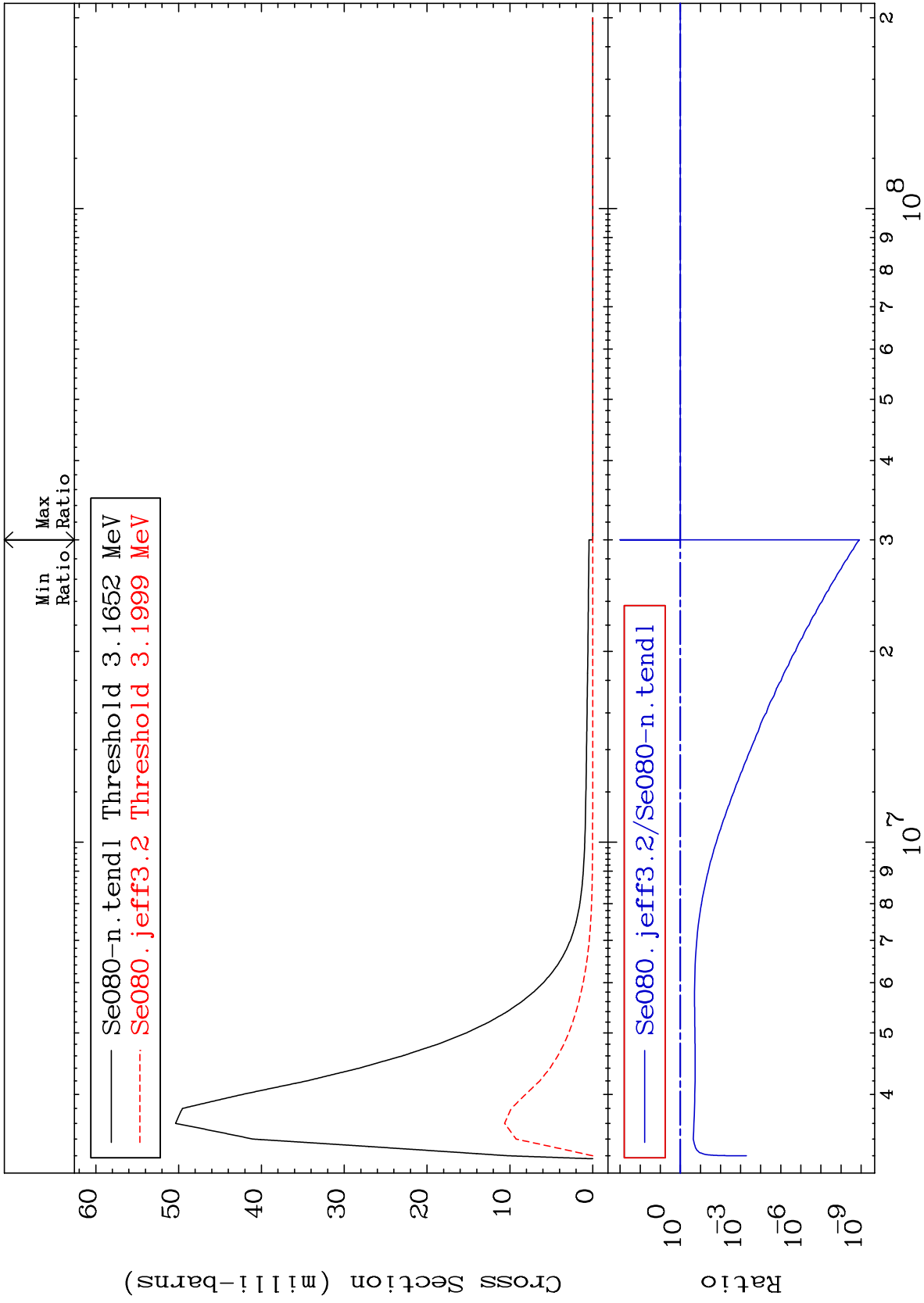
34-Se-80

MAT 3443

3.126 MeV (n,n') Level

<sup>34</sup>Se-80

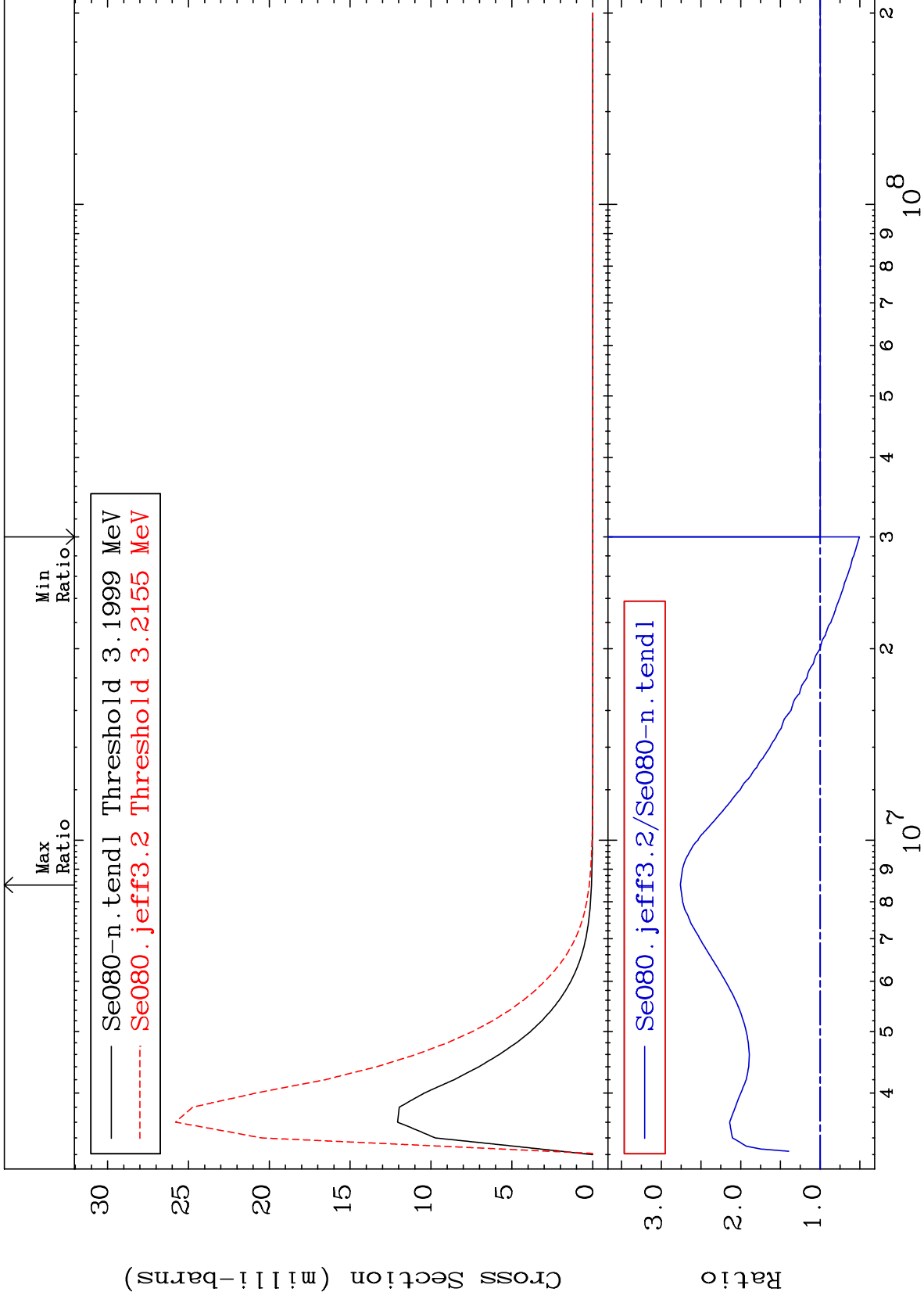
-100.0 To 0.000 %



MAT 3443

3.160 MeV (n,n') Level  
Cross Section

<sup>34</sup>Se-80  
-49.43 To 175.9 %



47

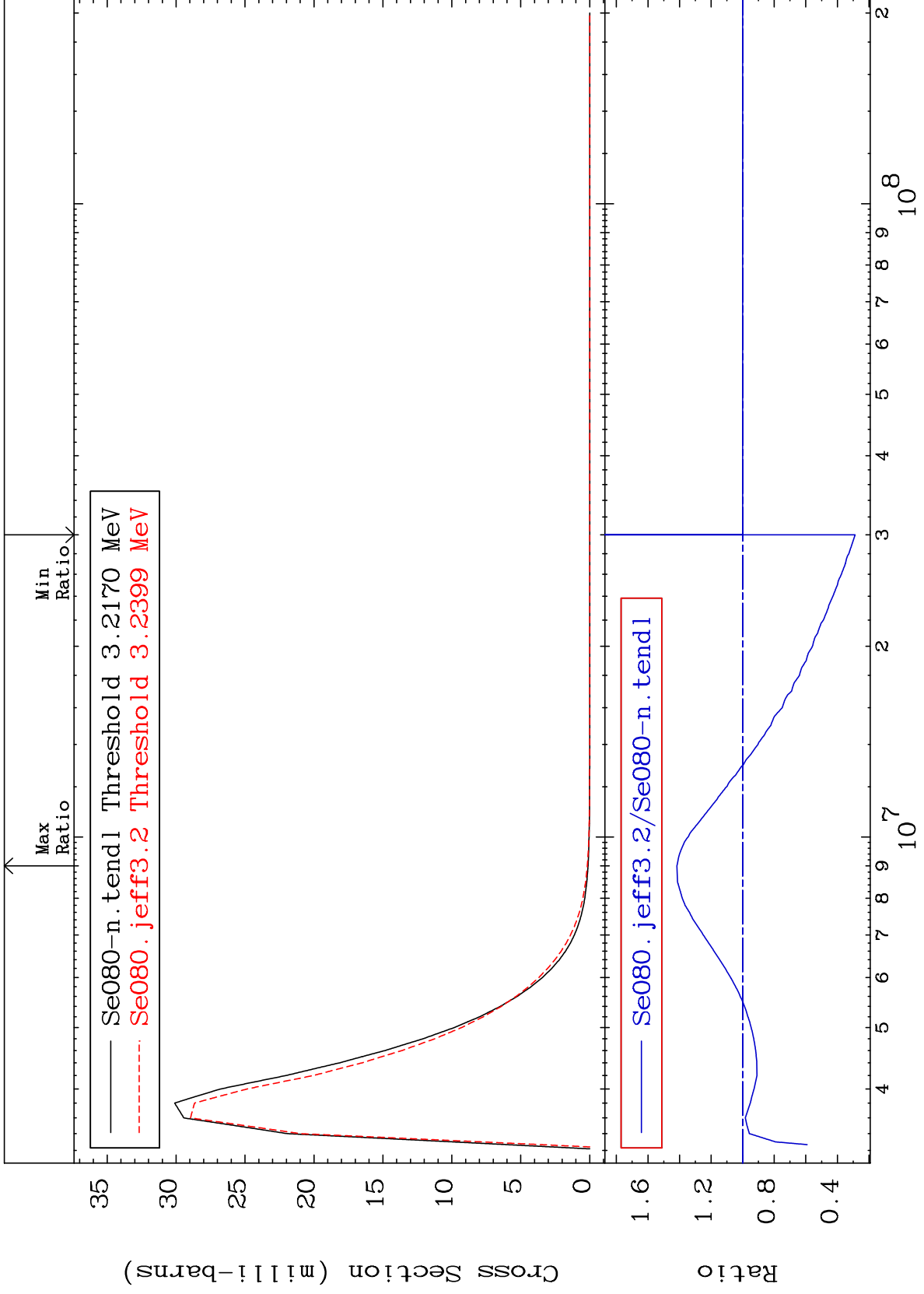
Incident Energy (eV)

<sup>34</sup>Se-80

MAT 3443

3.177 MeV (n,n') Level  
Cross Section

34-Se-80  
-71.23 To 41.64 %

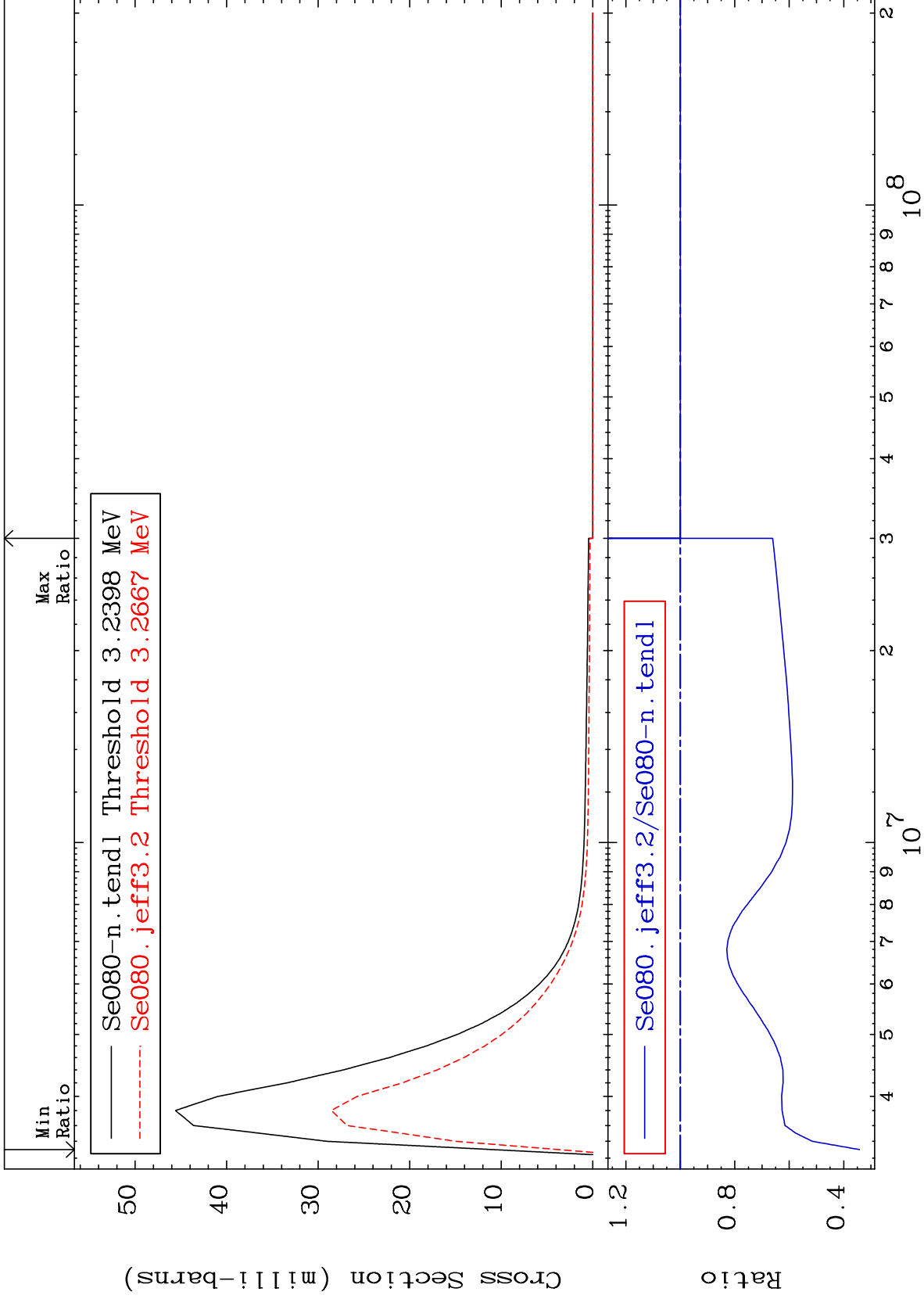




MAT 3443

3.199 MeV (n,n') Level  
Cross Section

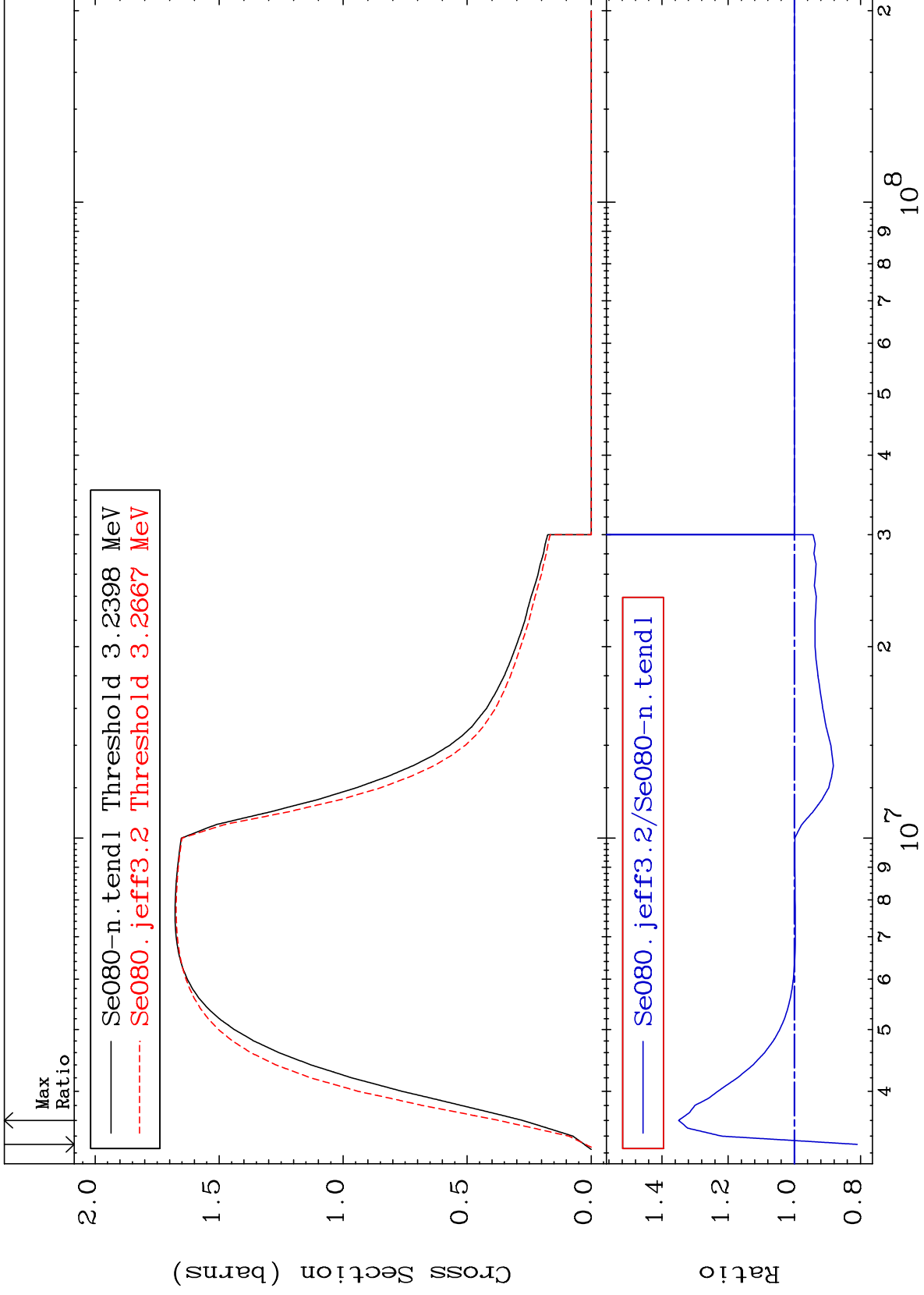
34-Se-80  
-65.78 To 0.000 %

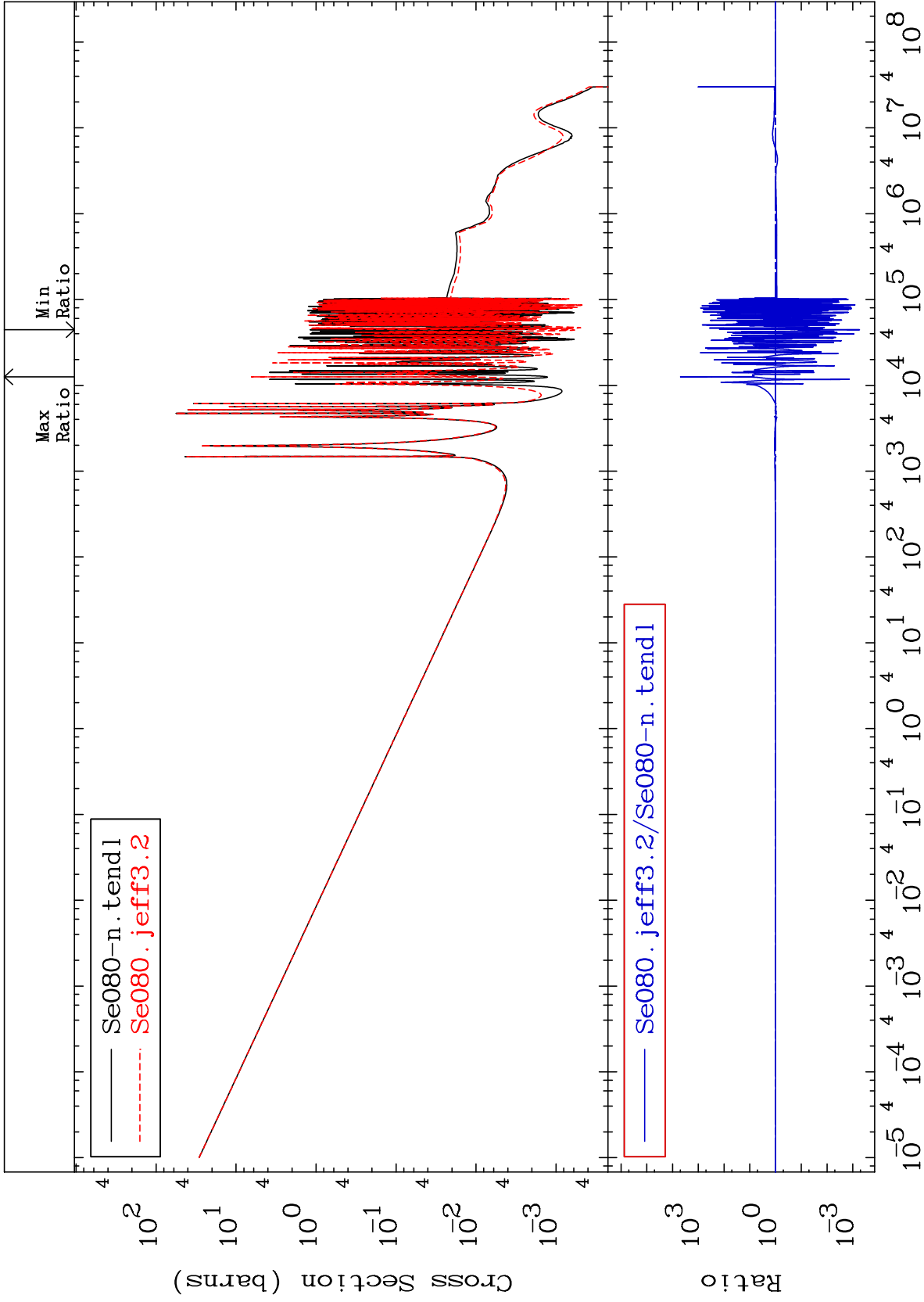


MAT 3443

(n, n') Continuum  
Cross Section

<sup>34</sup>Se-80  
-19.00 To 34.95 %

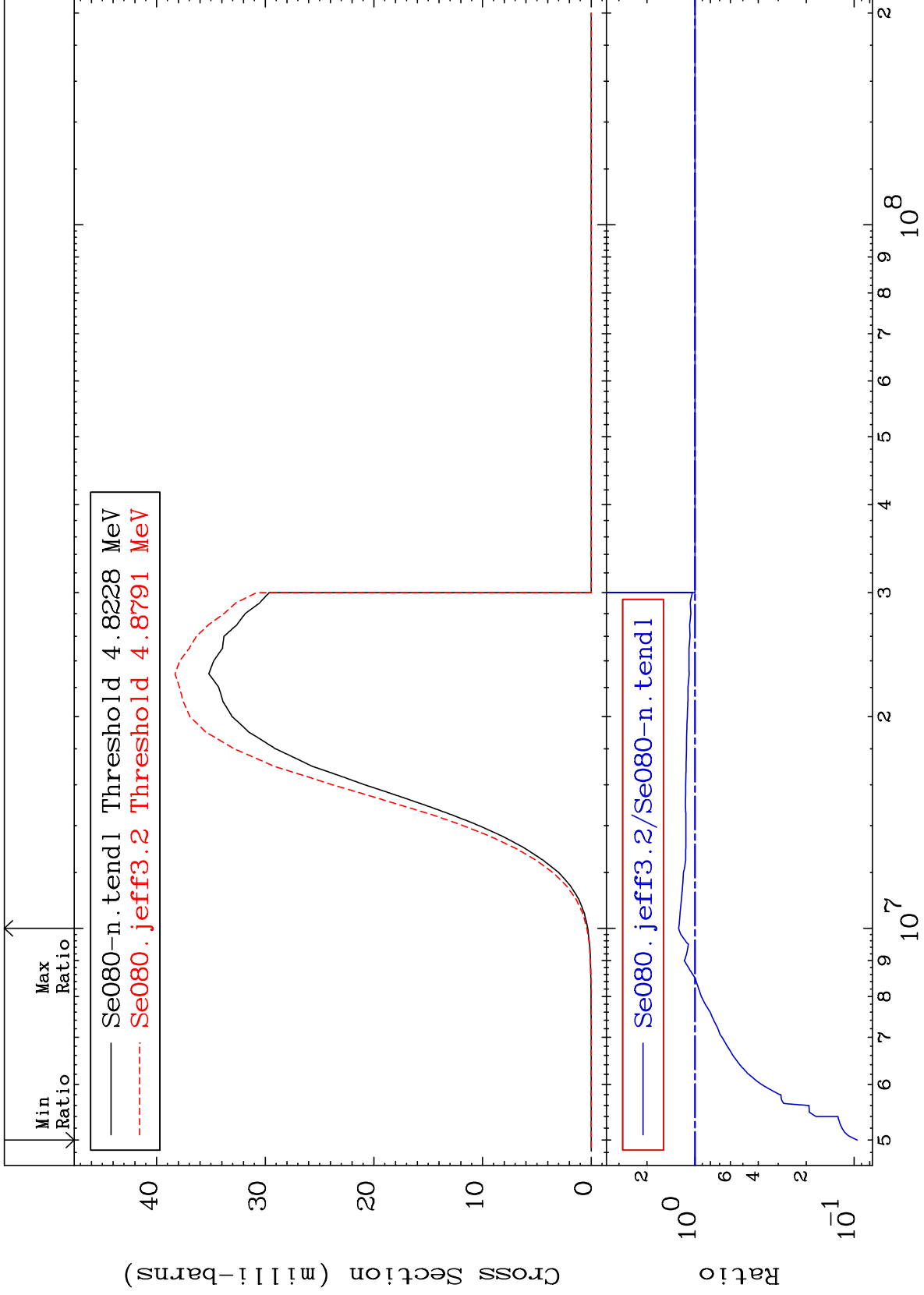




MAT 3443

(n,p)  
Cross Section

<sup>34</sup>Se-80  
-90.43 To 26.60 %



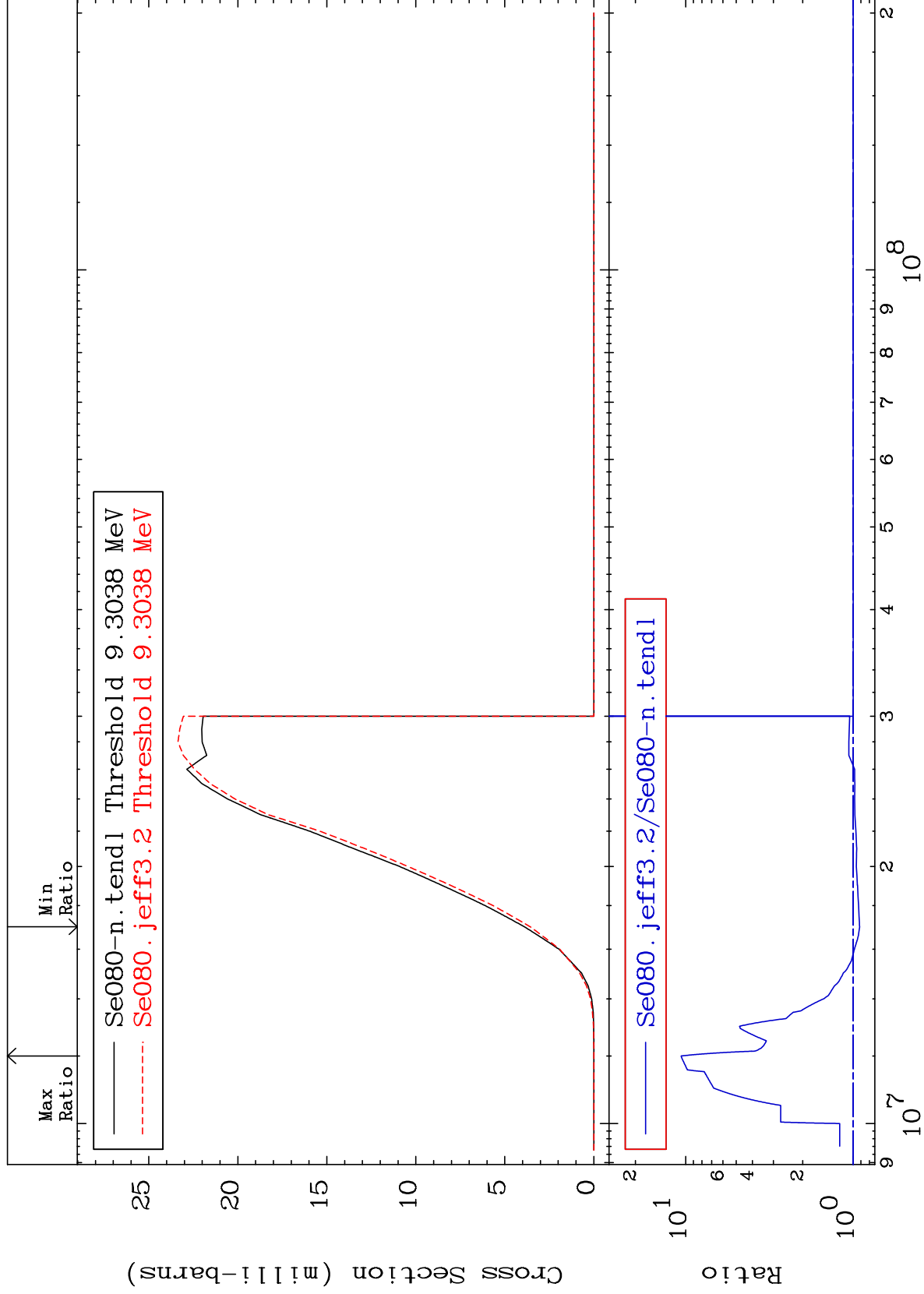
MAT 3443

(n, d)

<sup>34</sup>Se-80

Cross Section

-8.501 To 965.4 %



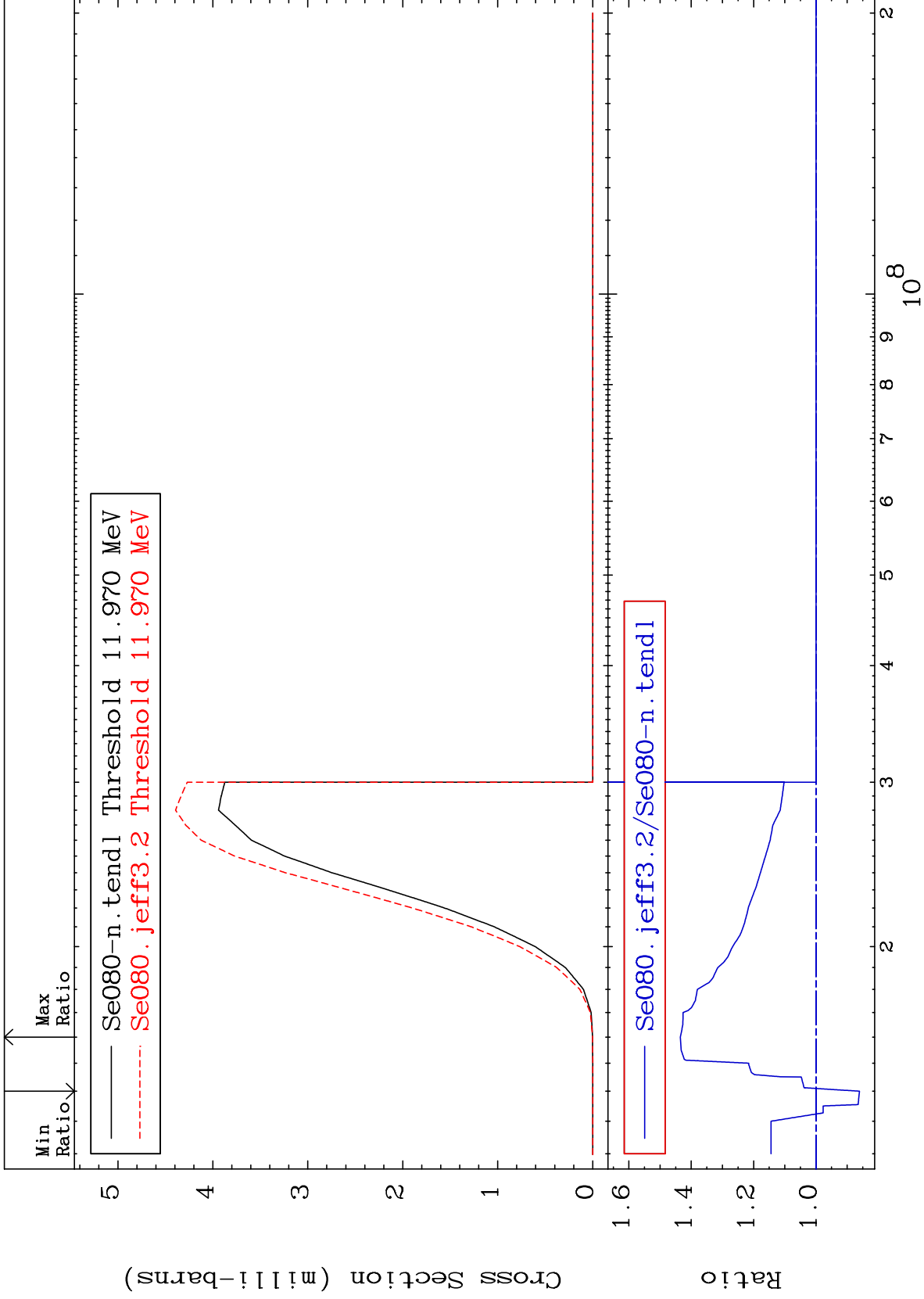
53

<sup>34</sup>Se-80

MAT 3443

(n, t)  
Cross Section

<sup>34</sup>Se-80  
-13.93 To 43.49 %



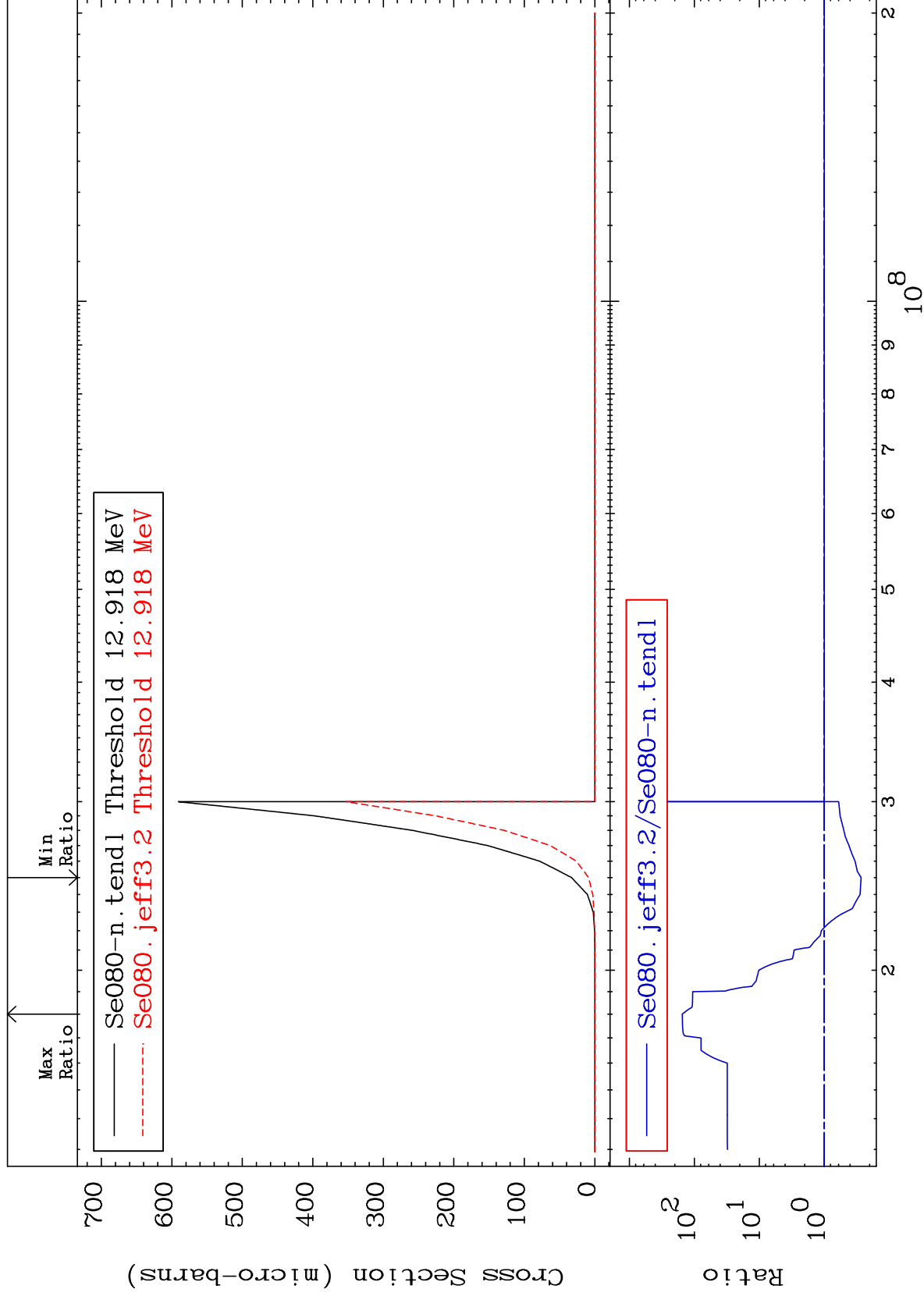
MAT 3443

(n, He-3)

<sup>34</sup>Se-80

Cross Section

-73.01 To 9999. %



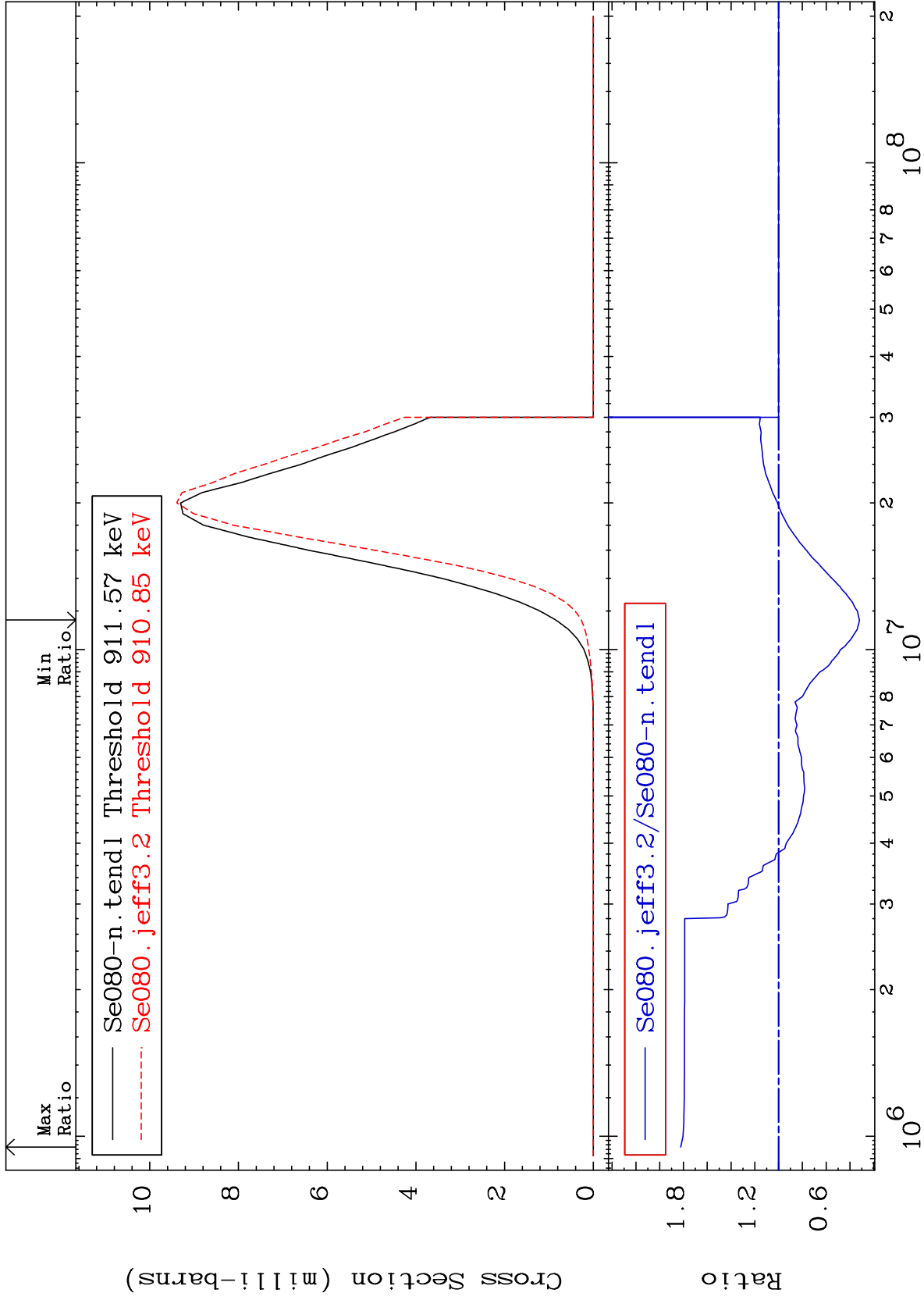
MAT 3443

(n,  $\alpha$ )

<sup>34</sup>Se-80

Cross Section

-68.05 To 82.27 %



56

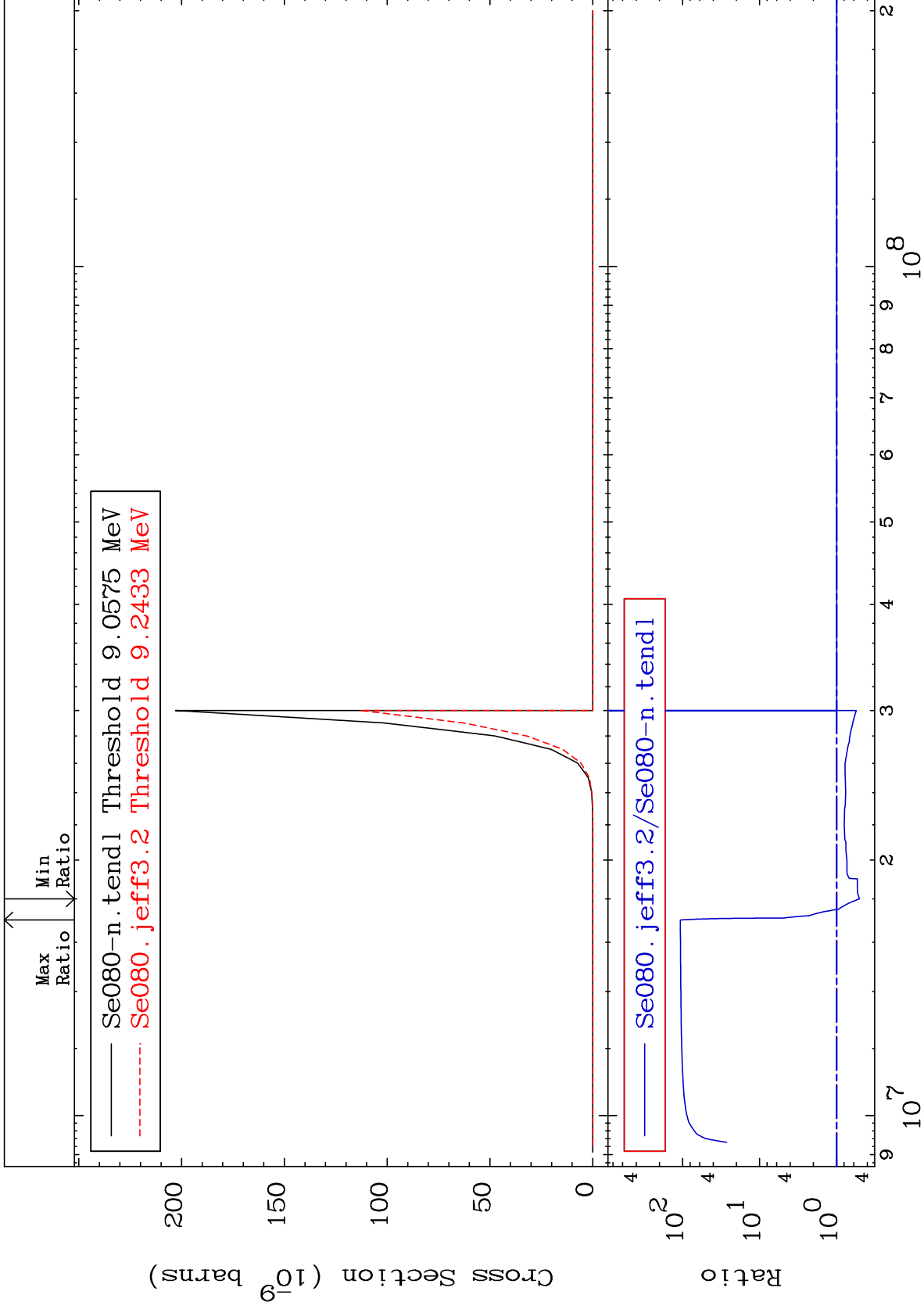
Incident Energy (eV)

<sup>34</sup>Se-80



Cross Section

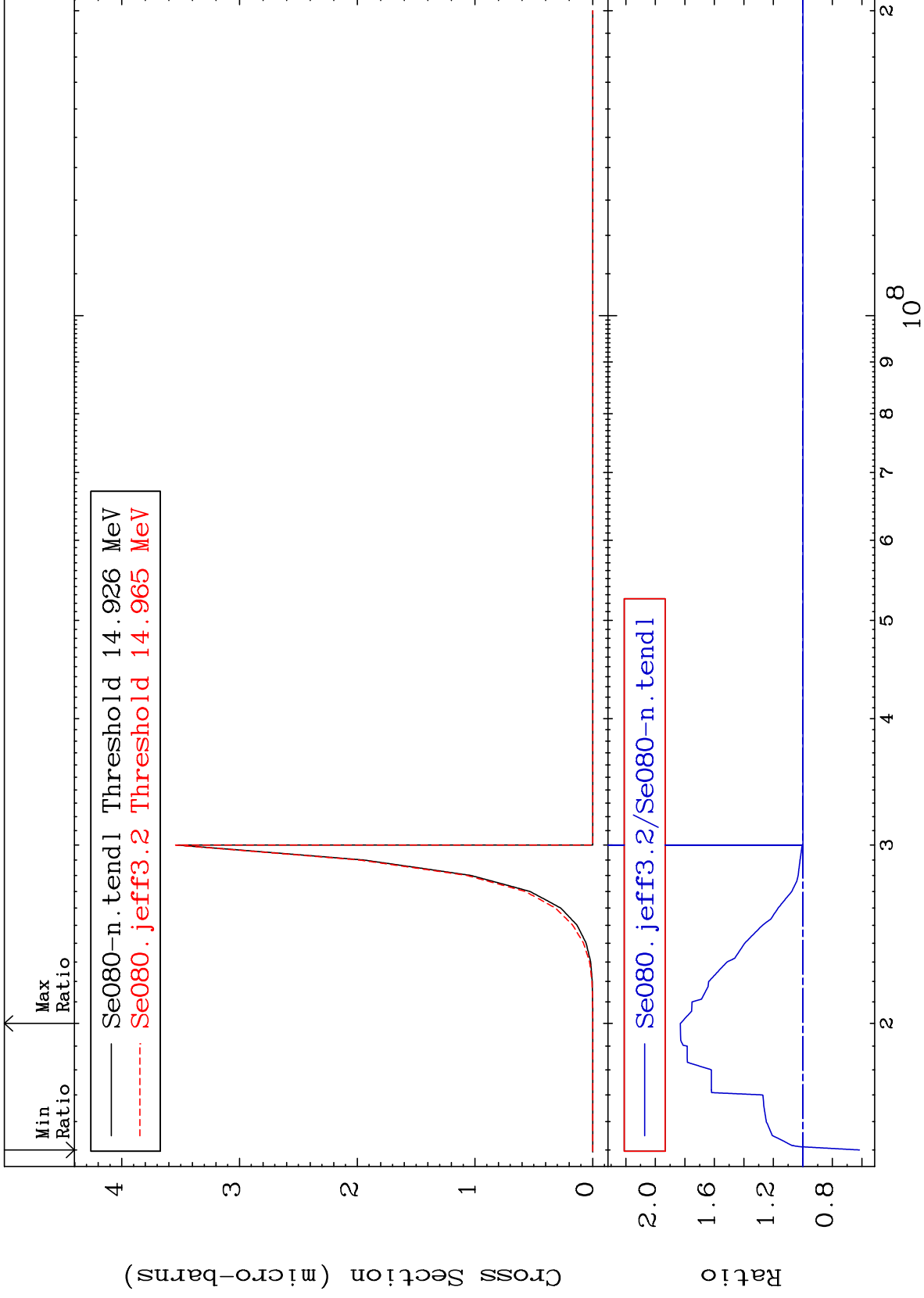
-49.42 To 9999. %

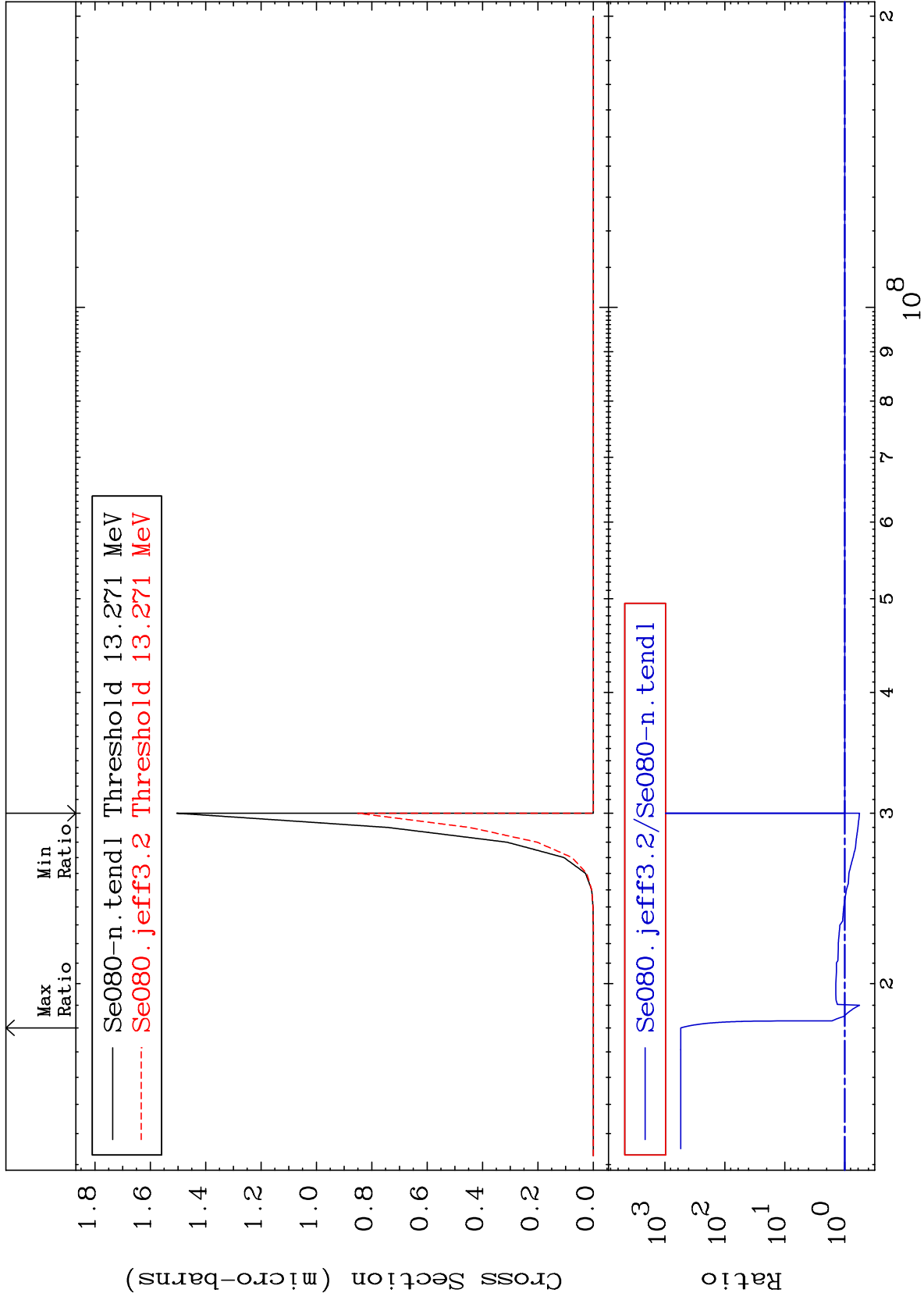


MAT 3443

(n,2p)  
Cross Section

<sup>34</sup>Se-80  
-38.31 To 83.04 %





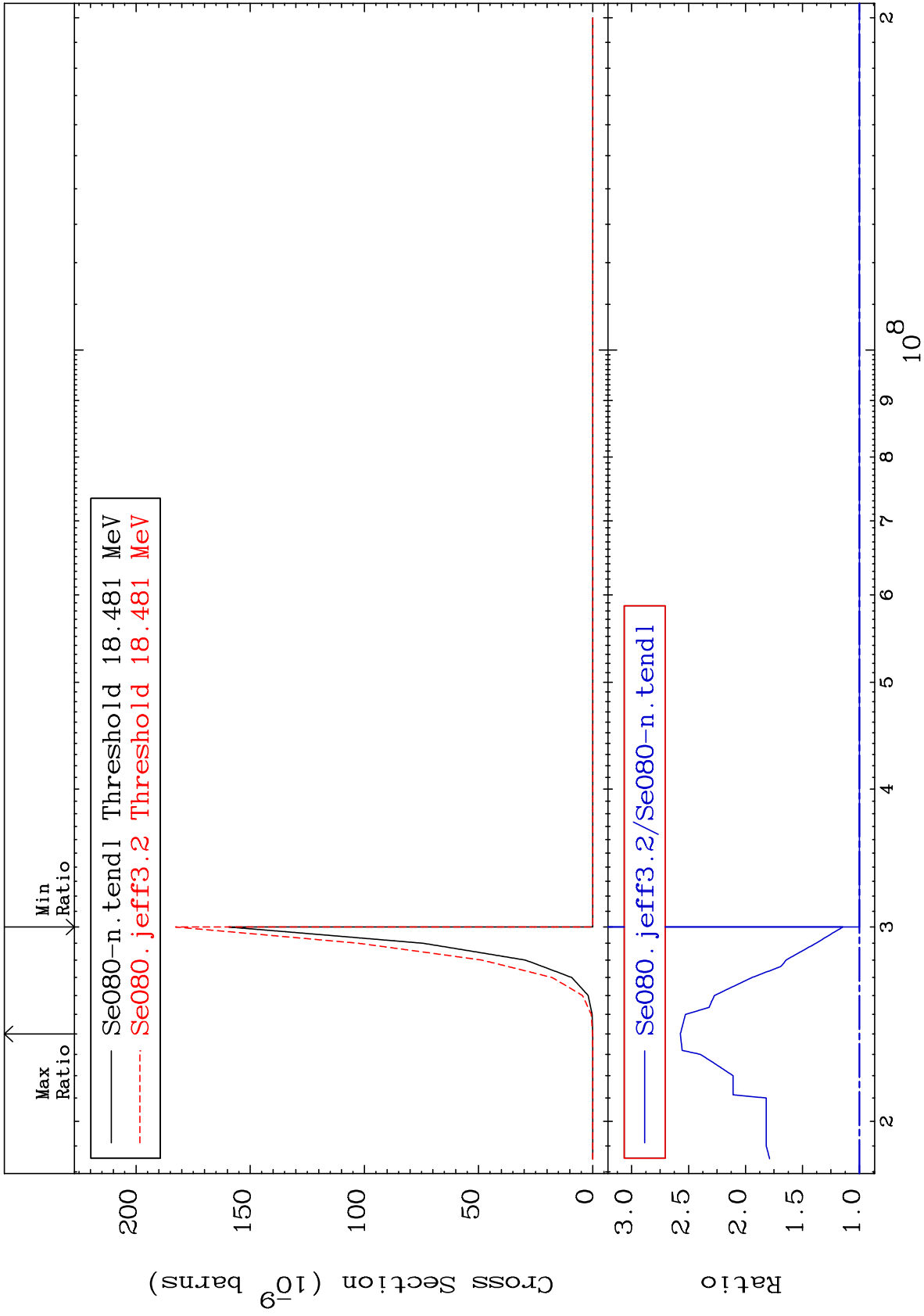
MAT 3443

(n,p) d

<sup>34</sup>Se-80

Cross Section

0.000 To 157.2 %



60

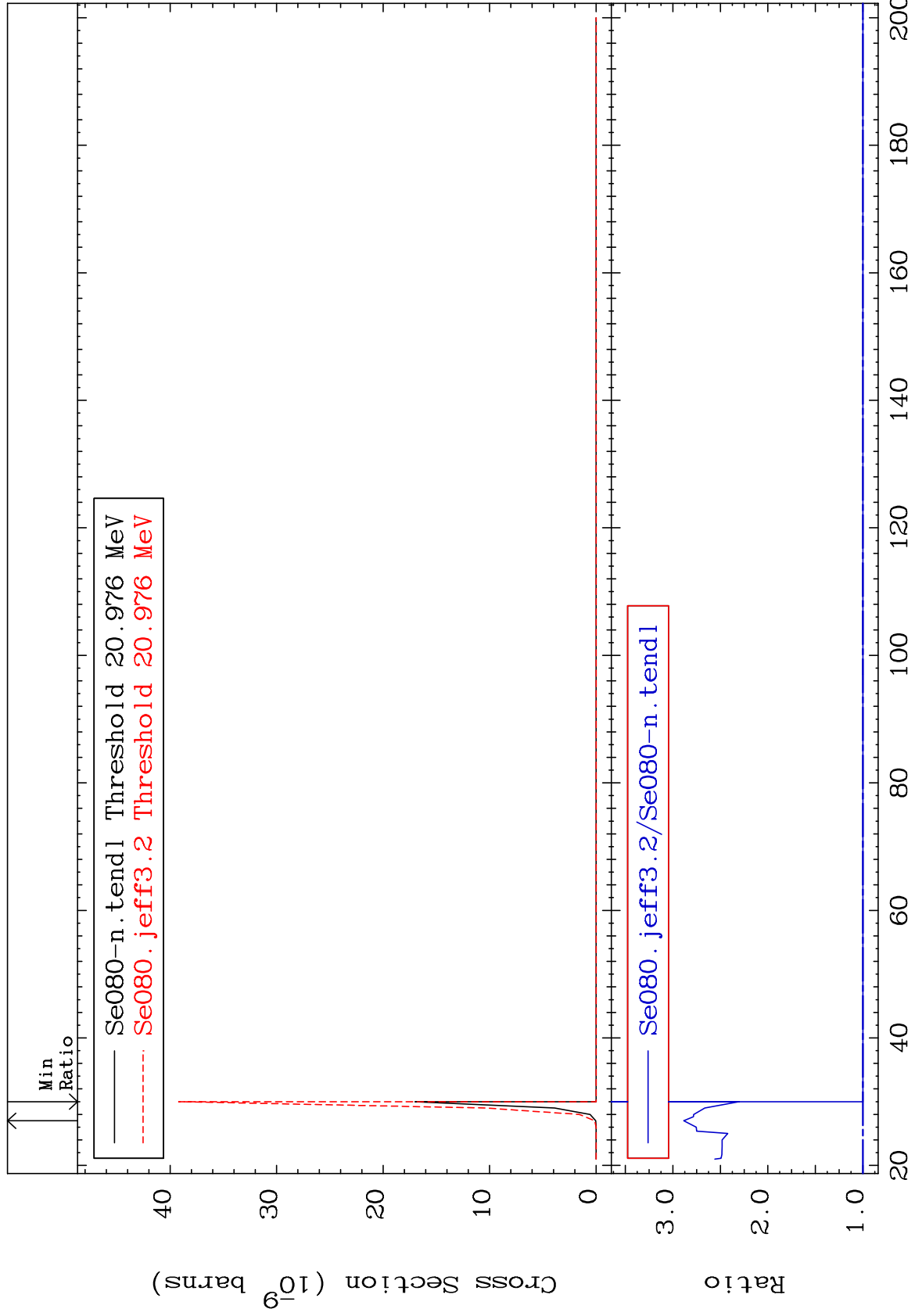
Incident Energy (eV)

<sup>34</sup>Se-80

MAT 3443

(n,p) t  
Cross Section

<sup>34</sup>Se-80  
0.000 To 188.5 %



61

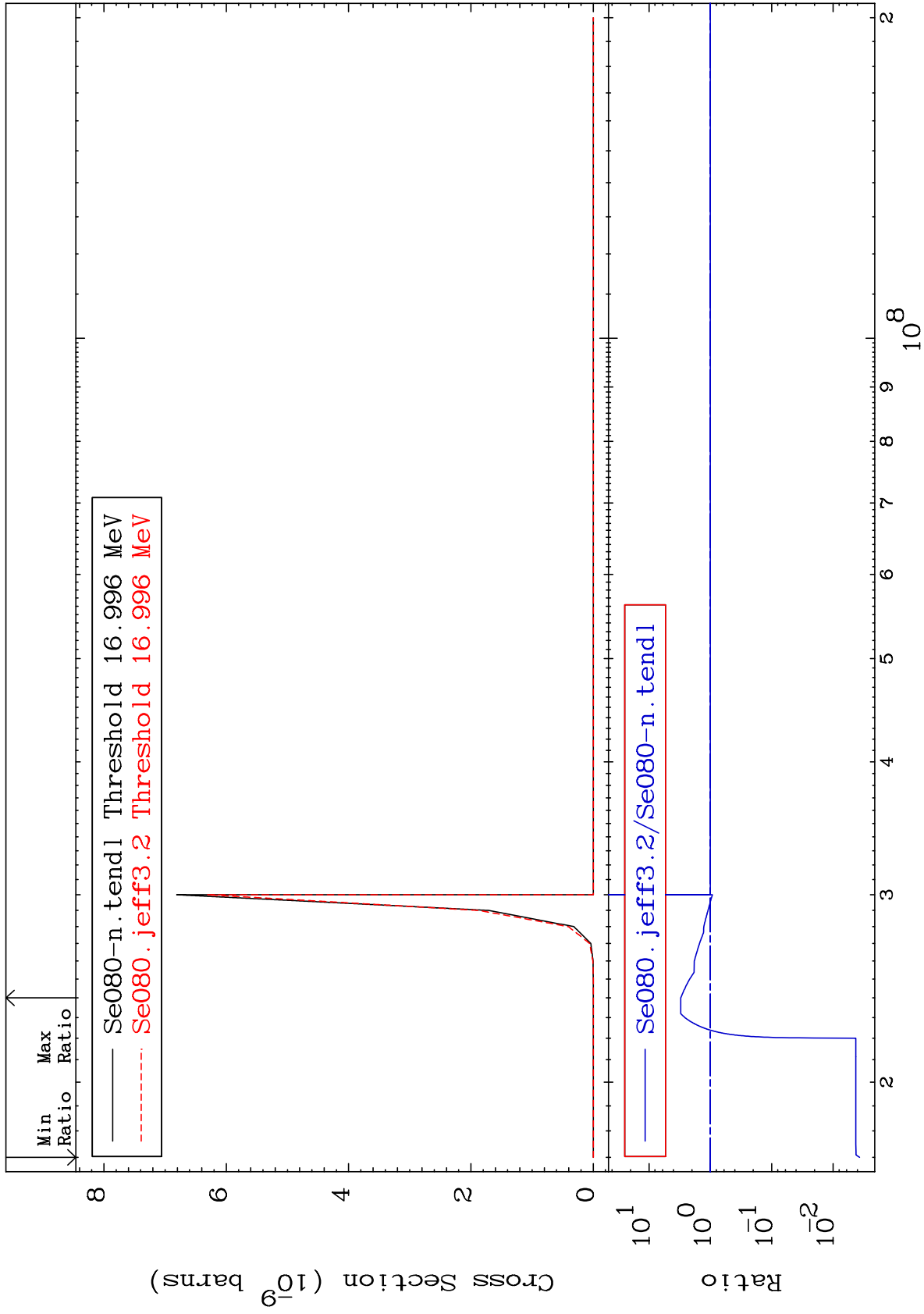
Incident Energy (MeV)

<sup>34</sup>Se-80

MAT 3443

(n, d)  $\alpha$   
Cross Section

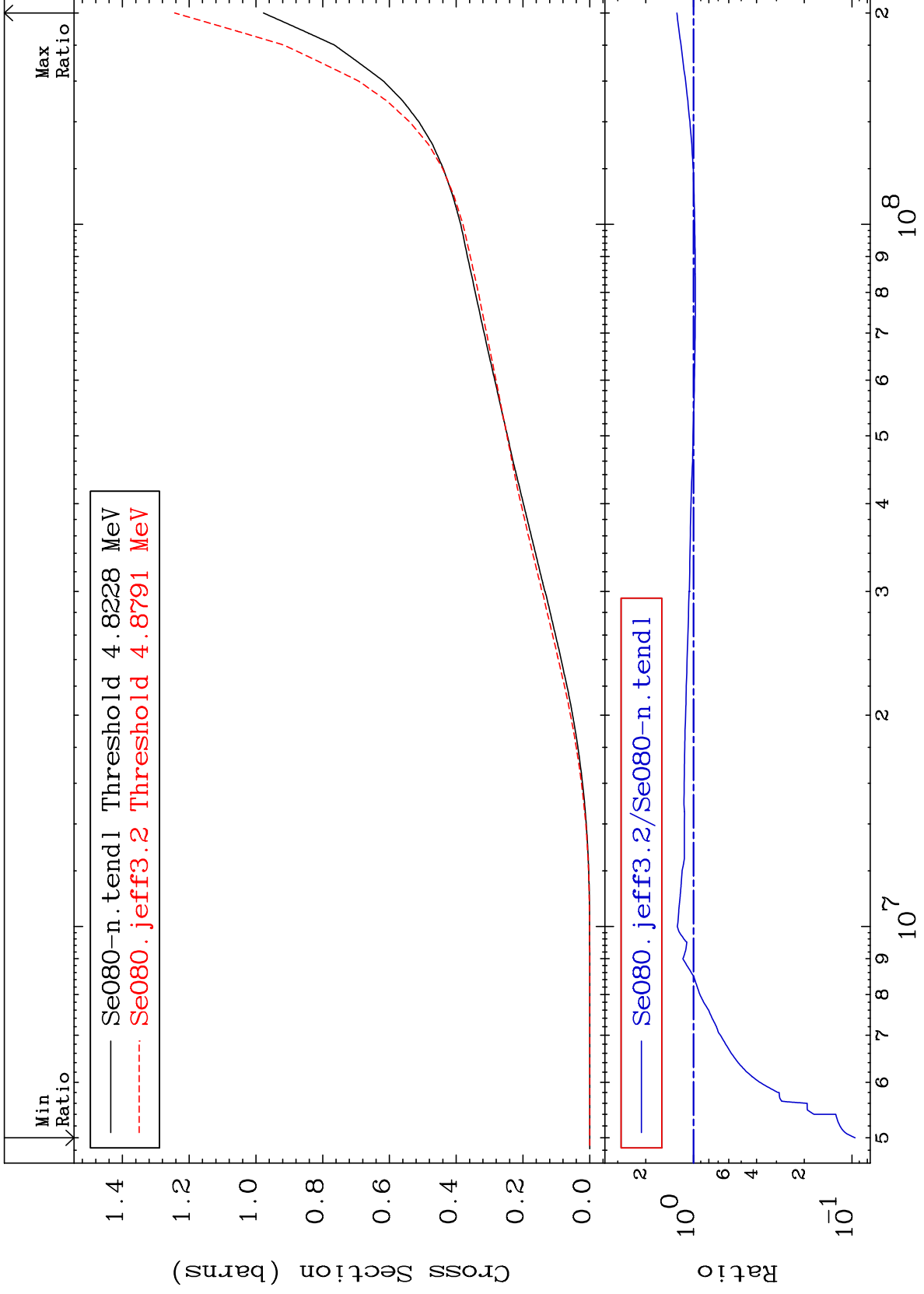
<sup>34</sup>Se-80  
-99.63 To 203.5 %



MAT 3443

Hydrogen Production  
Cross Section

<sup>34</sup>Se-80  
-90.43 To 27.22 %



63

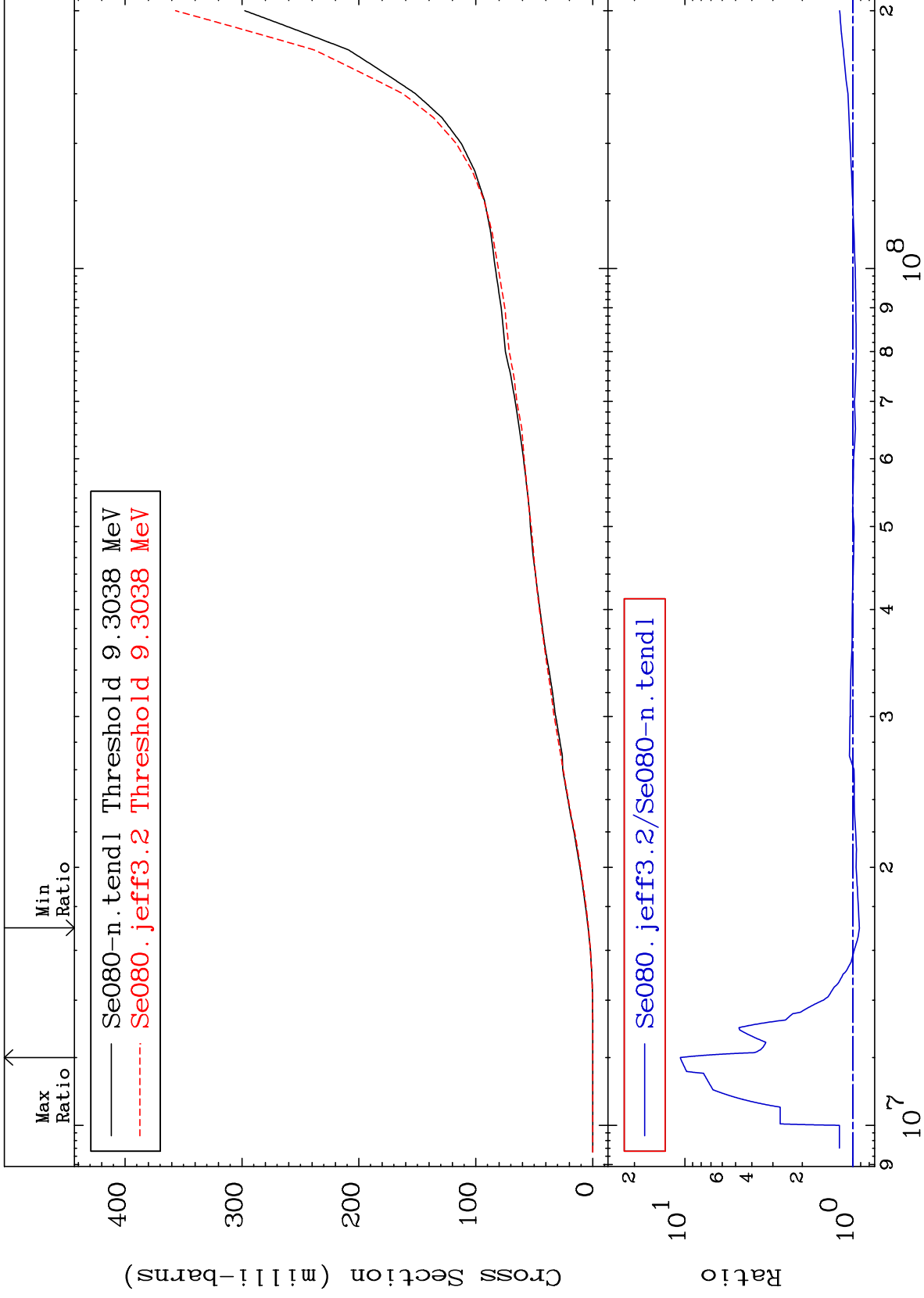
Incident Energy (eV)

<sup>34</sup>Se-80

MAT 3443

Deuterium Production  
Cross Section

<sup>34</sup>Se-80  
-8.501 To 965.4 %



64

Incident Energy (eV)

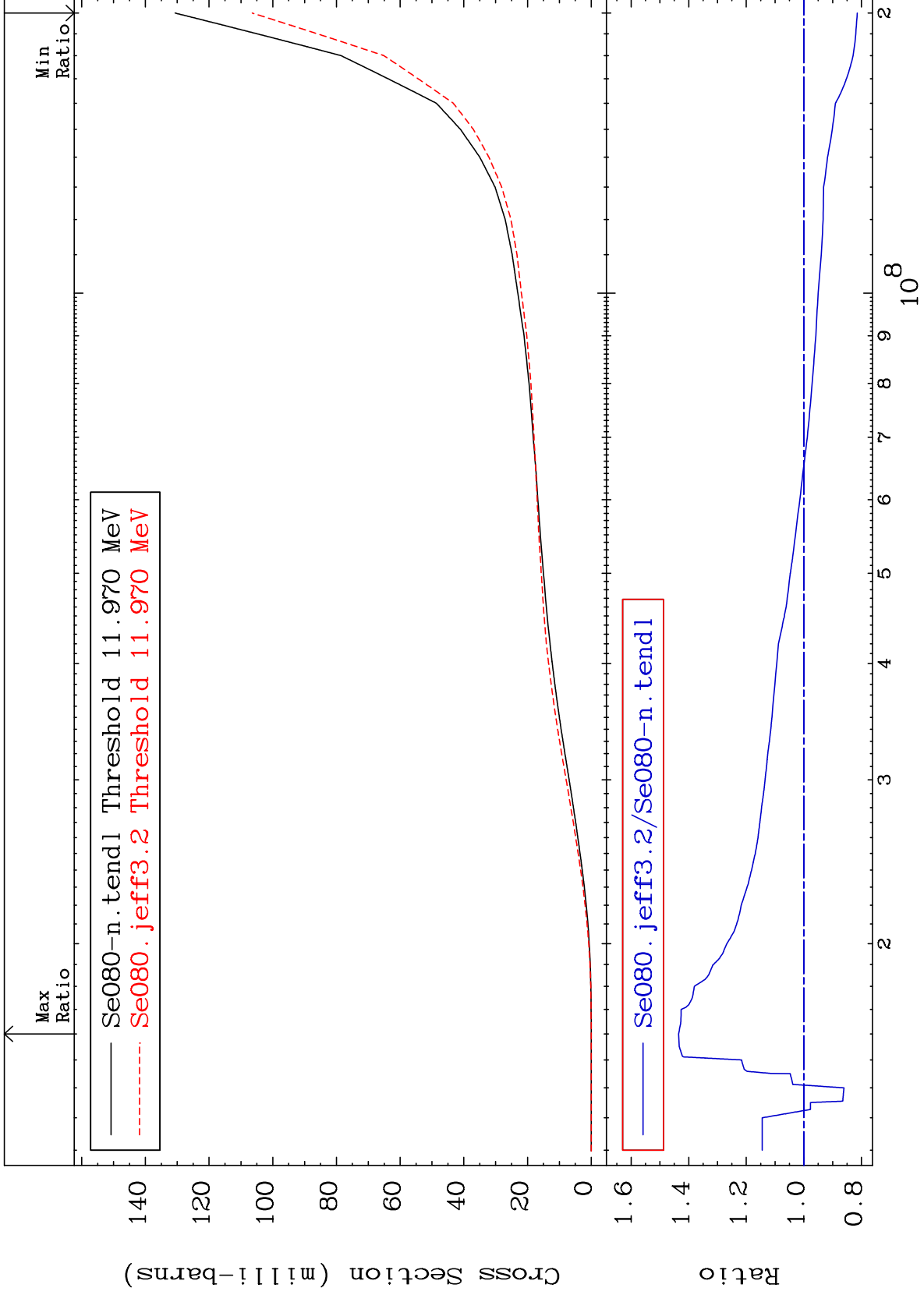
<sup>34</sup>Se-80



MAT 3443

Tritium Production  
Cross Section

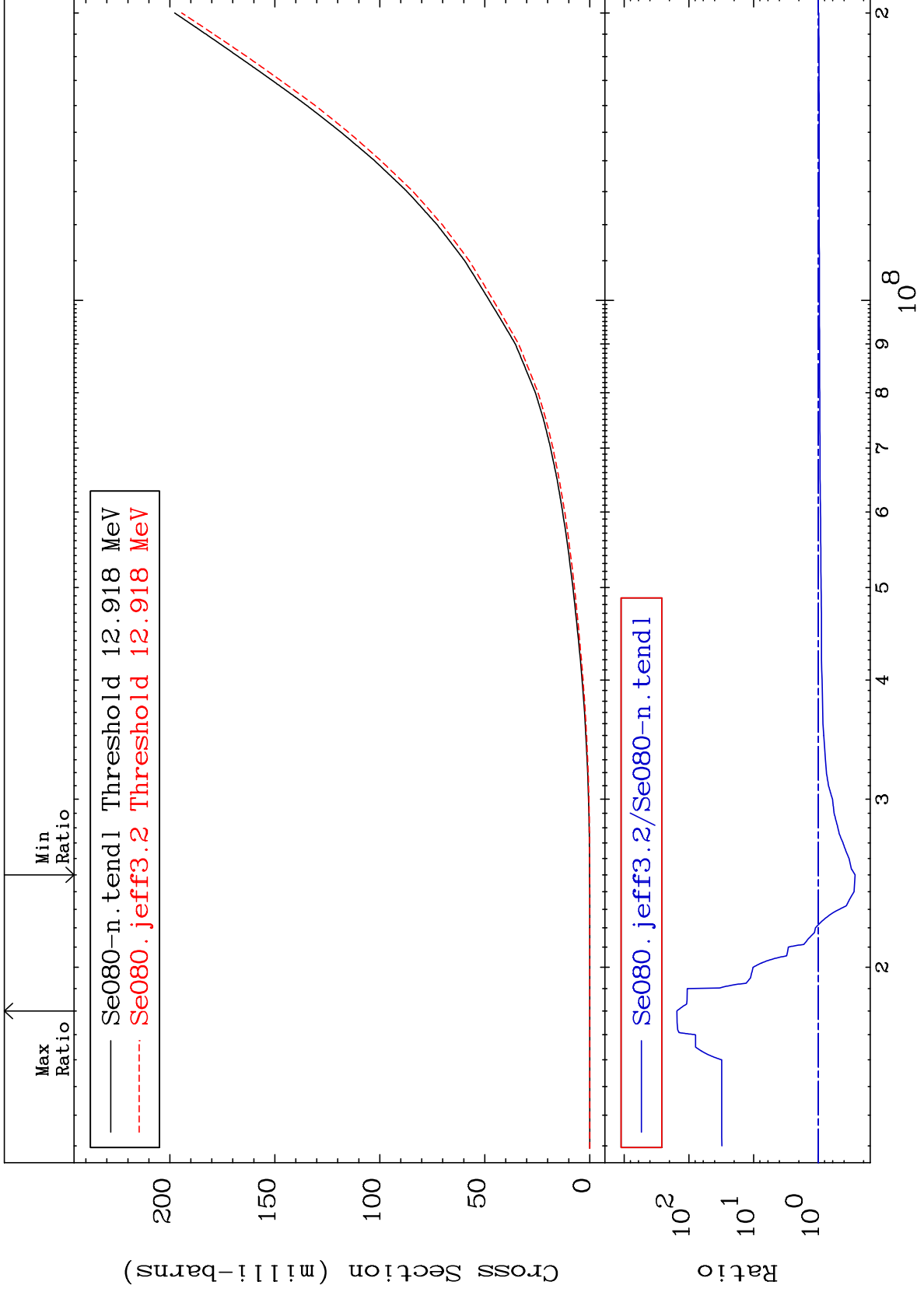
<sup>34</sup>Se-80  
-18.56 To 43.49 %



MAT 3443

He-3 Production  
Cross Section

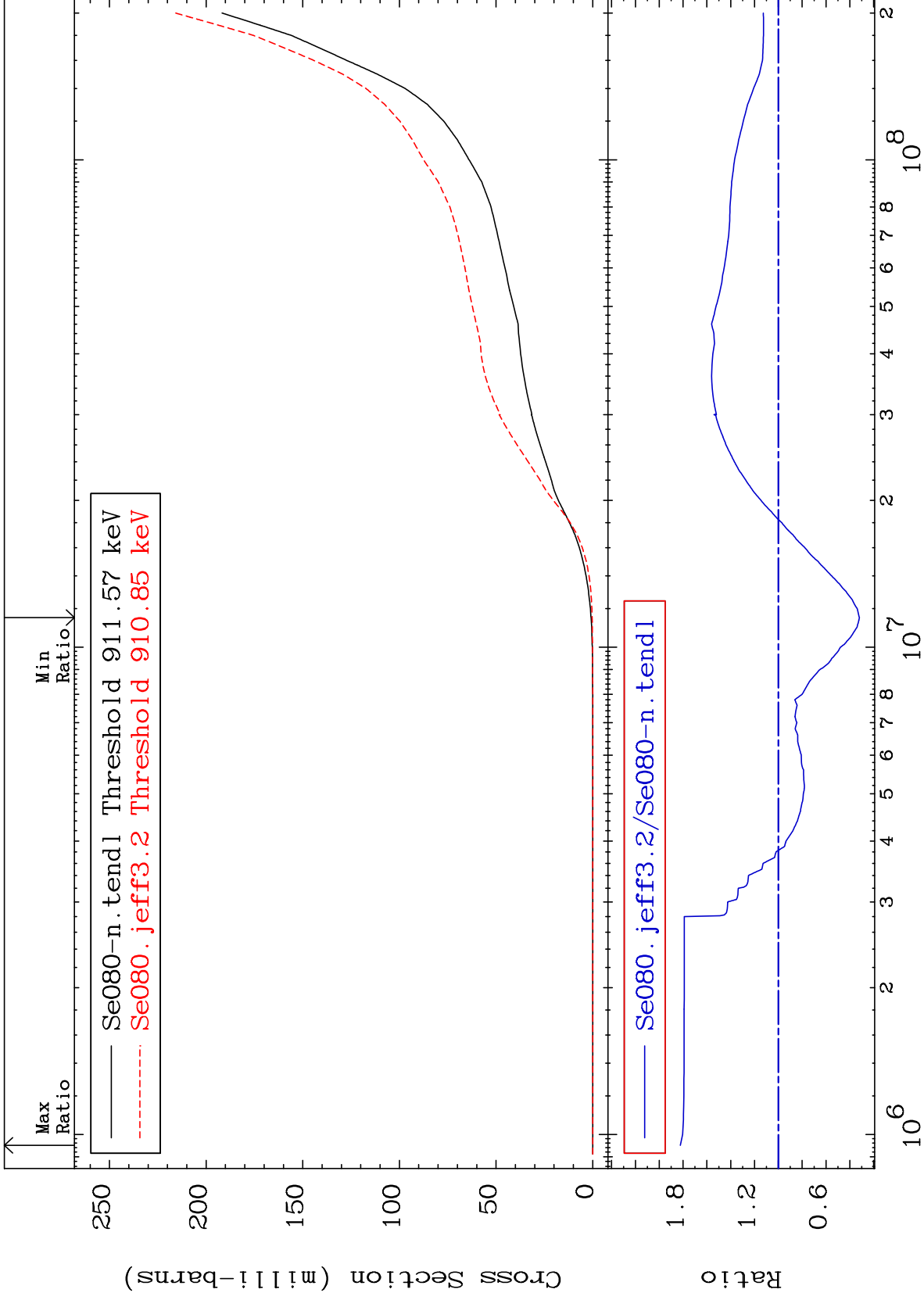
<sup>34</sup>Se-80  
-73.01 To 9999. %



MAT 3443

He-4 Production  
Cross Section

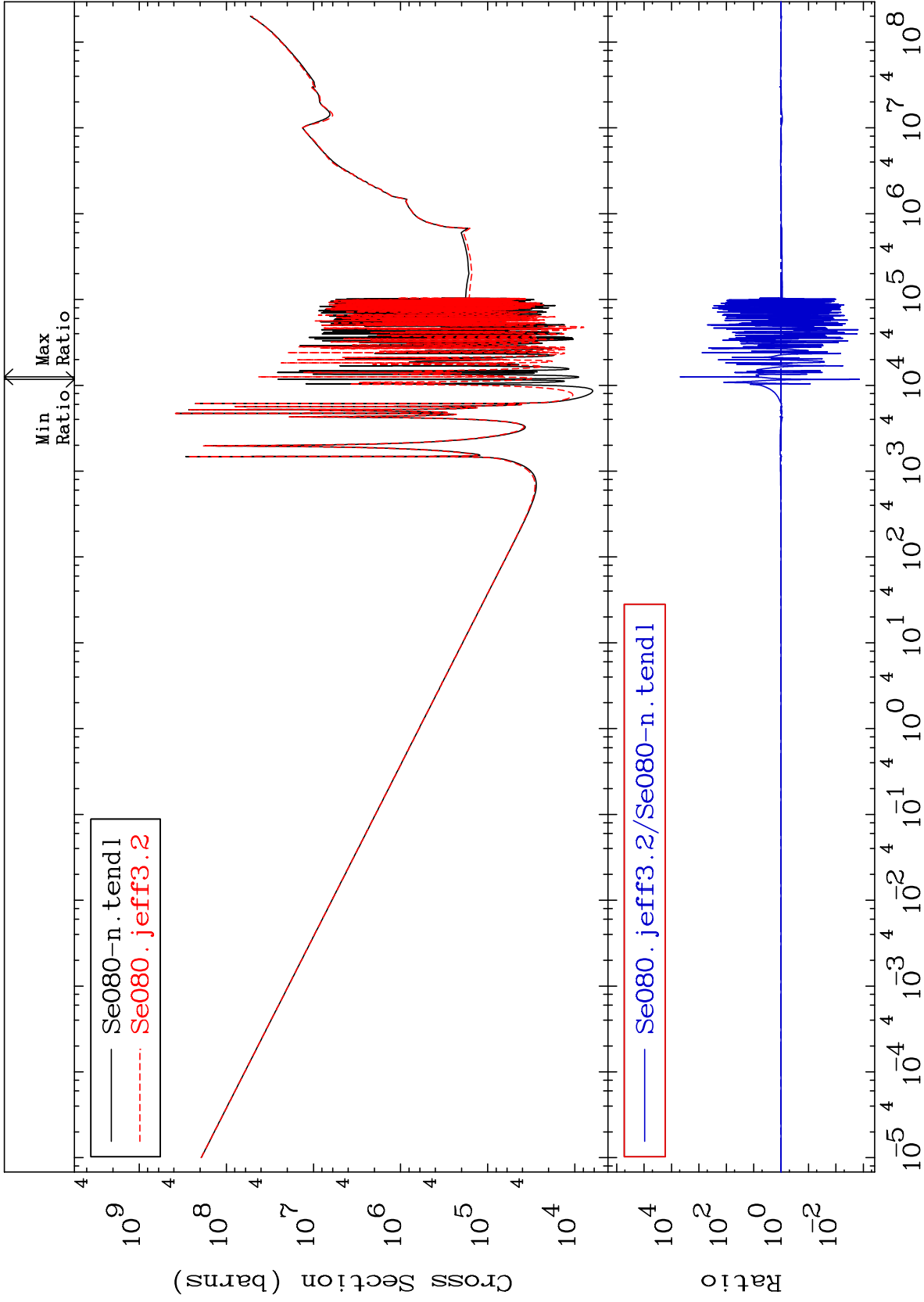
<sup>34</sup>Se-80  
-68.05 To 82.27 %



67

Incident Energy (eV)

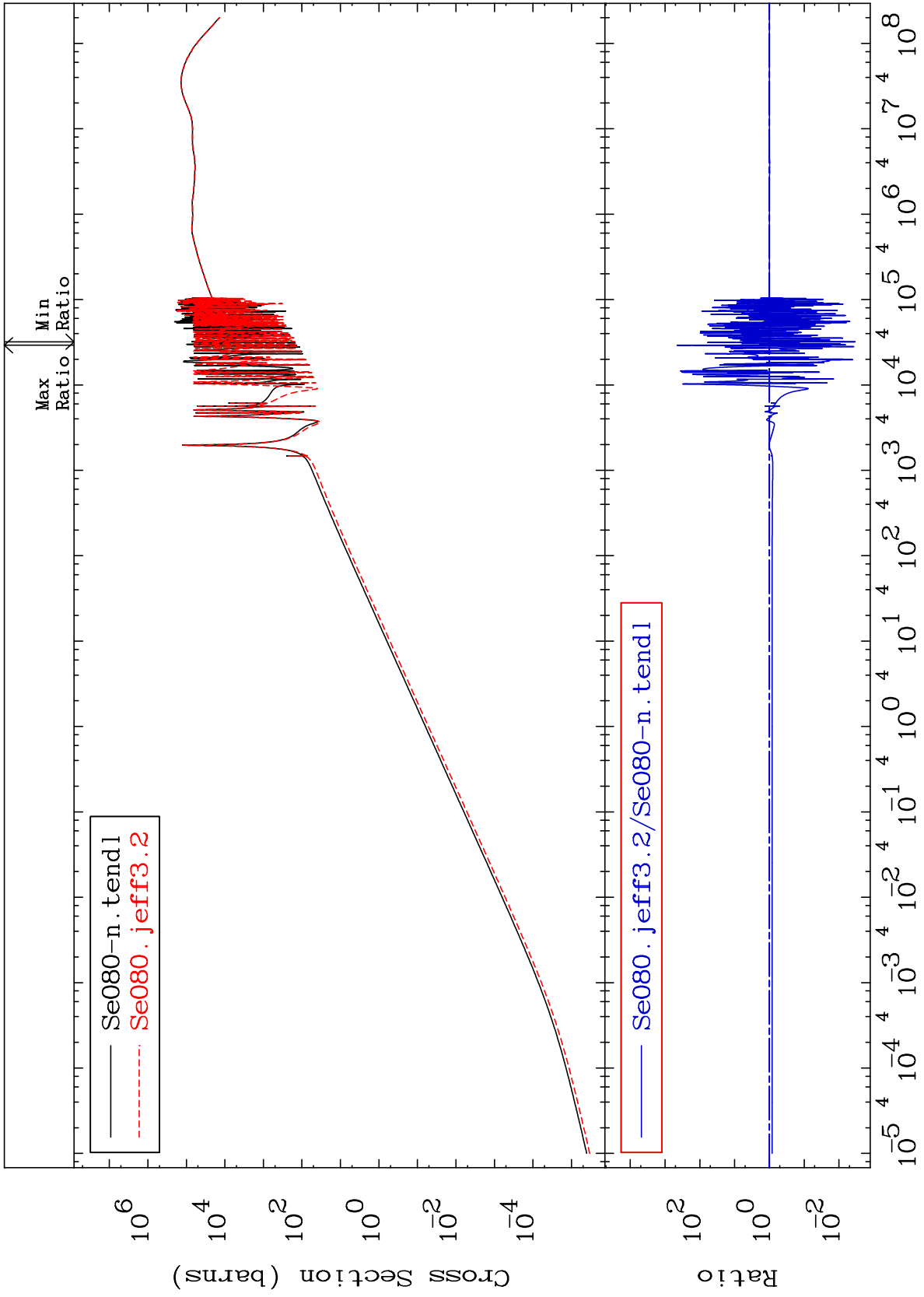
<sup>34</sup>Se-80

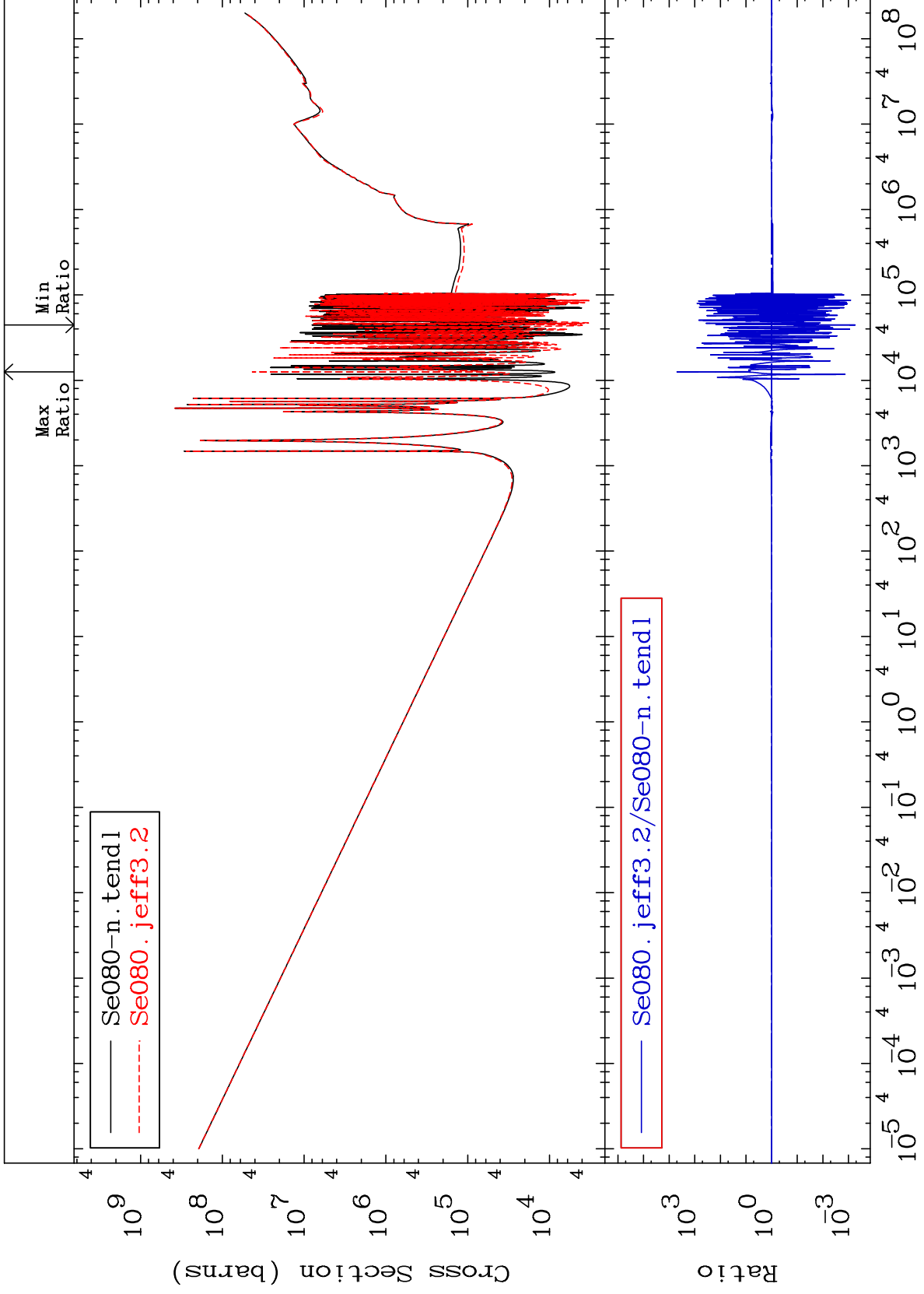


MAT 3443

Kerma elastic  
Cross Section

34-Se-80  
-99.66 To 9999. %

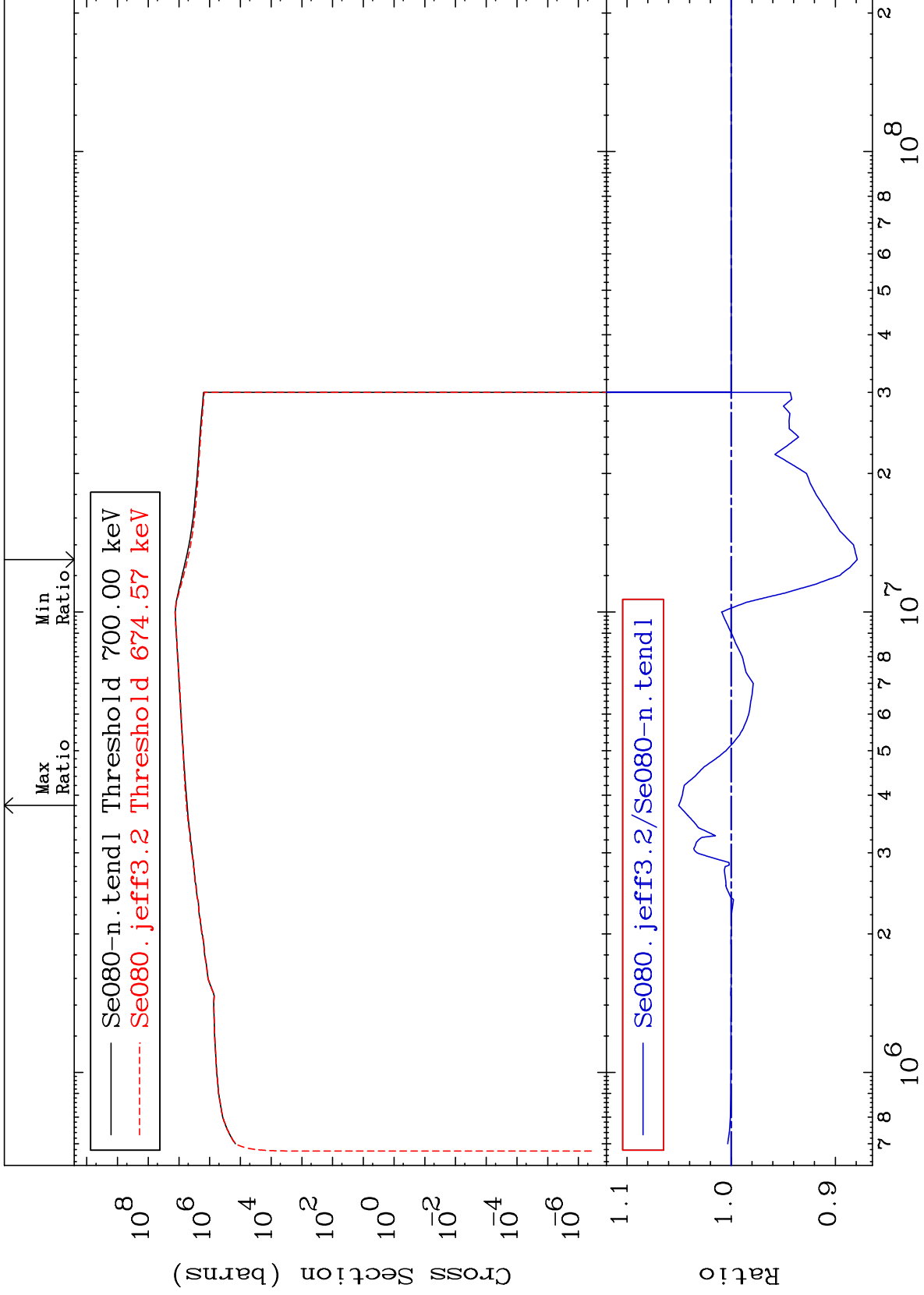




MAT 3443

Kerma inelastic (mt51-91)  
Cross Section

34-Se-80  
-12.11 To 5.046 %



71

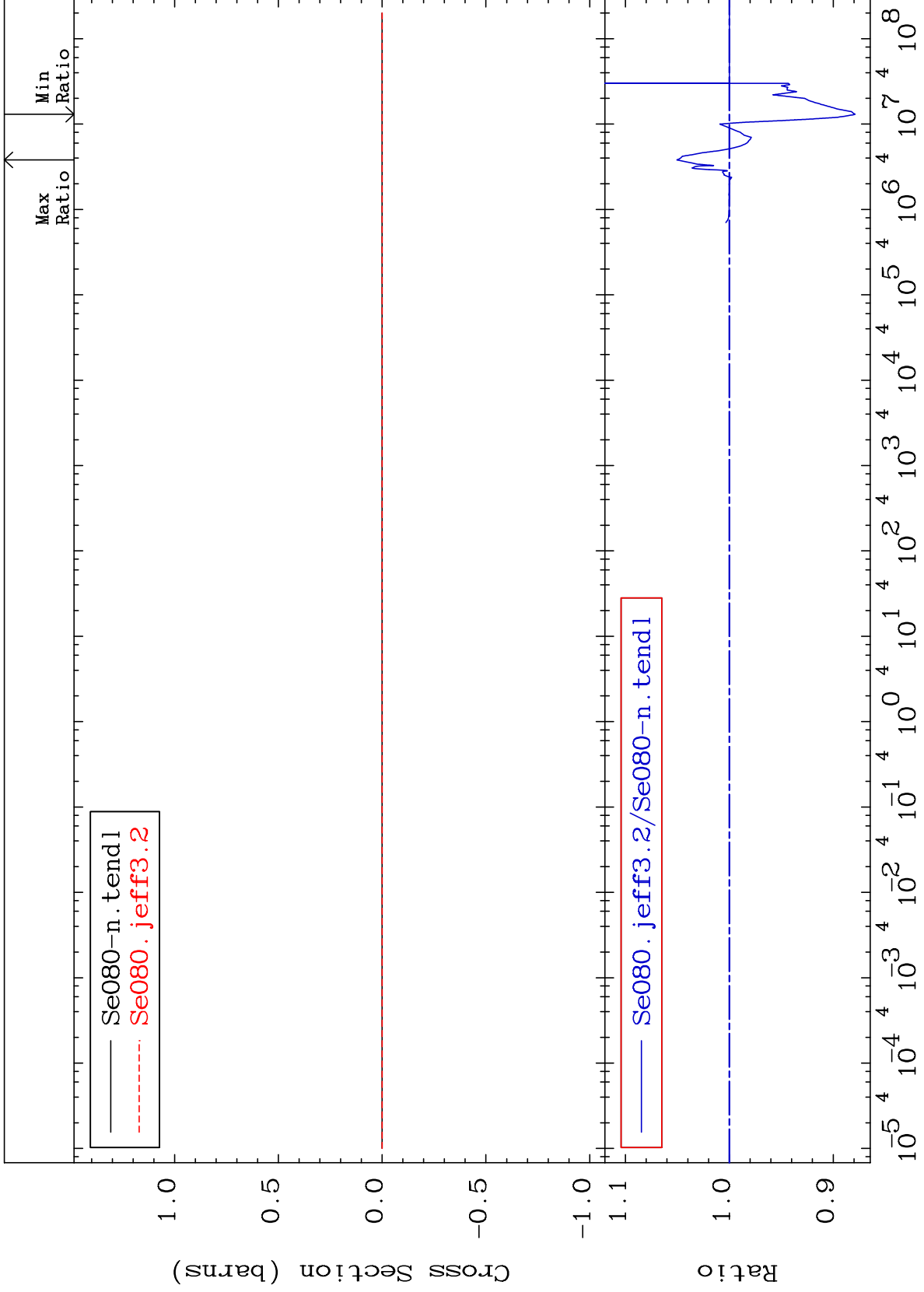
Incident Energy (eV)

34-Se-80

MAT 3443

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

34-Se-80  
-12.11 To 5.046 %



72

Incident Energy (eV)

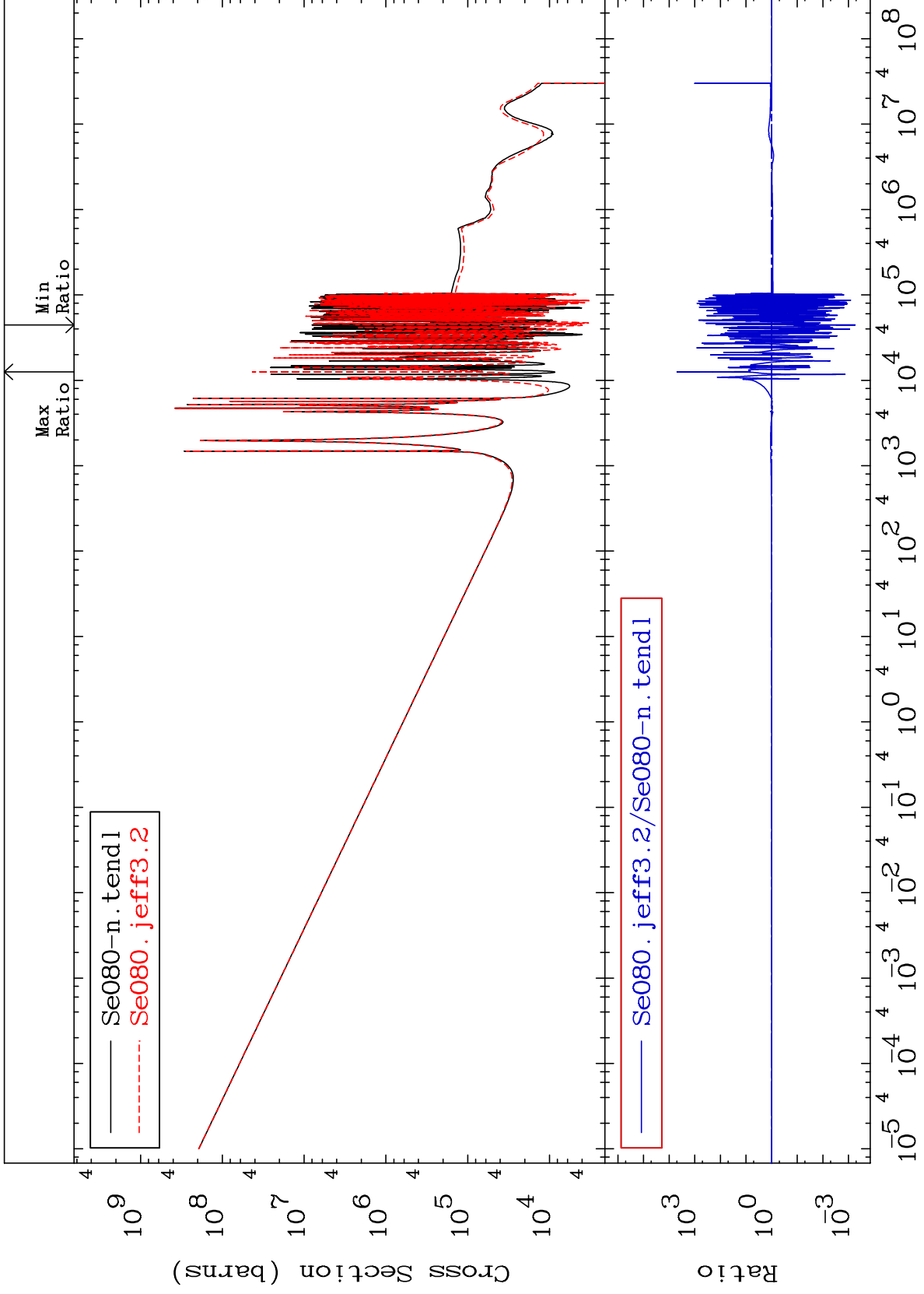
34-Se-80



MAT 3443

Kerma capture (mt102)  
Cross Section

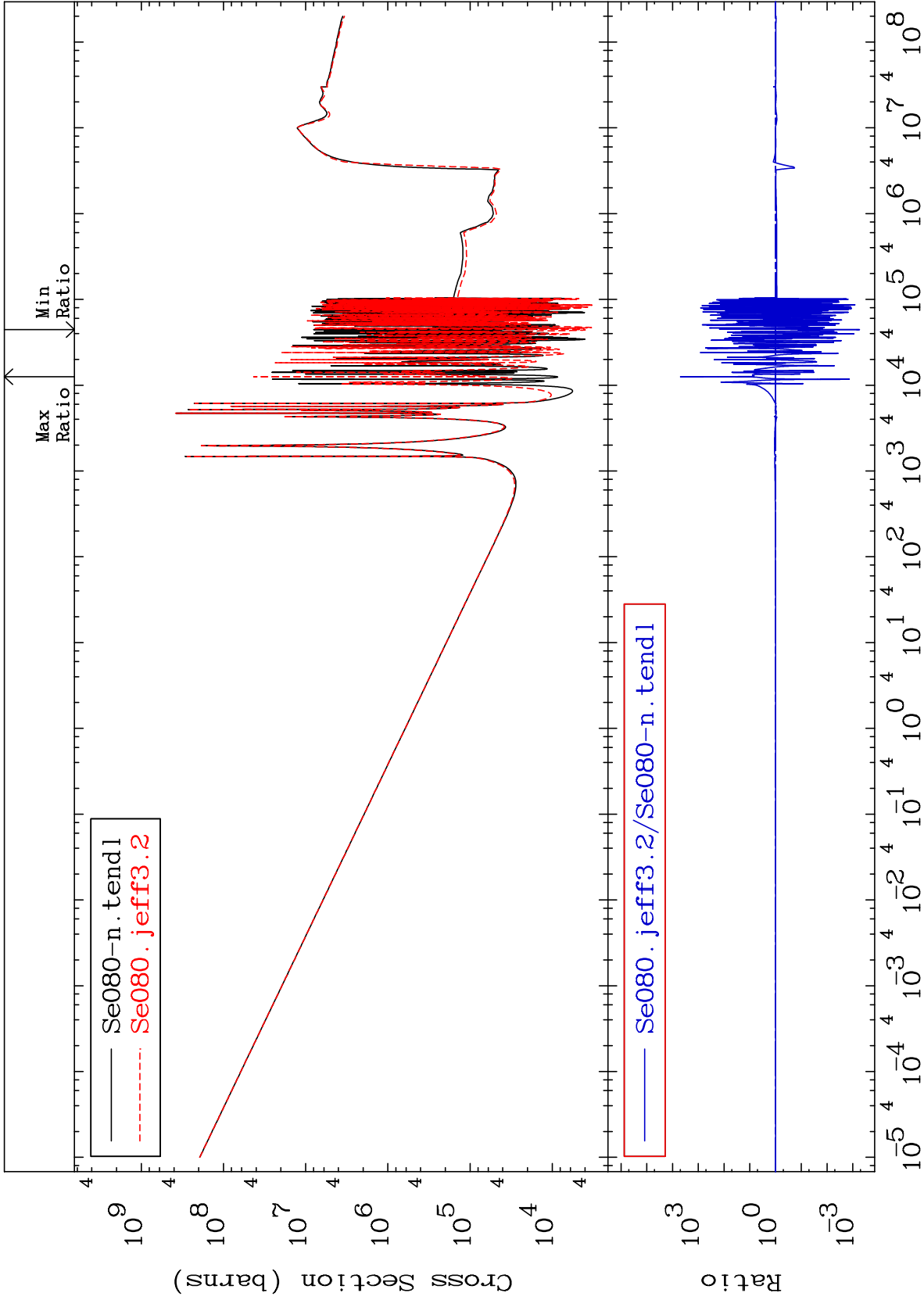
34-Se-80  
-99.94 To 9999. %

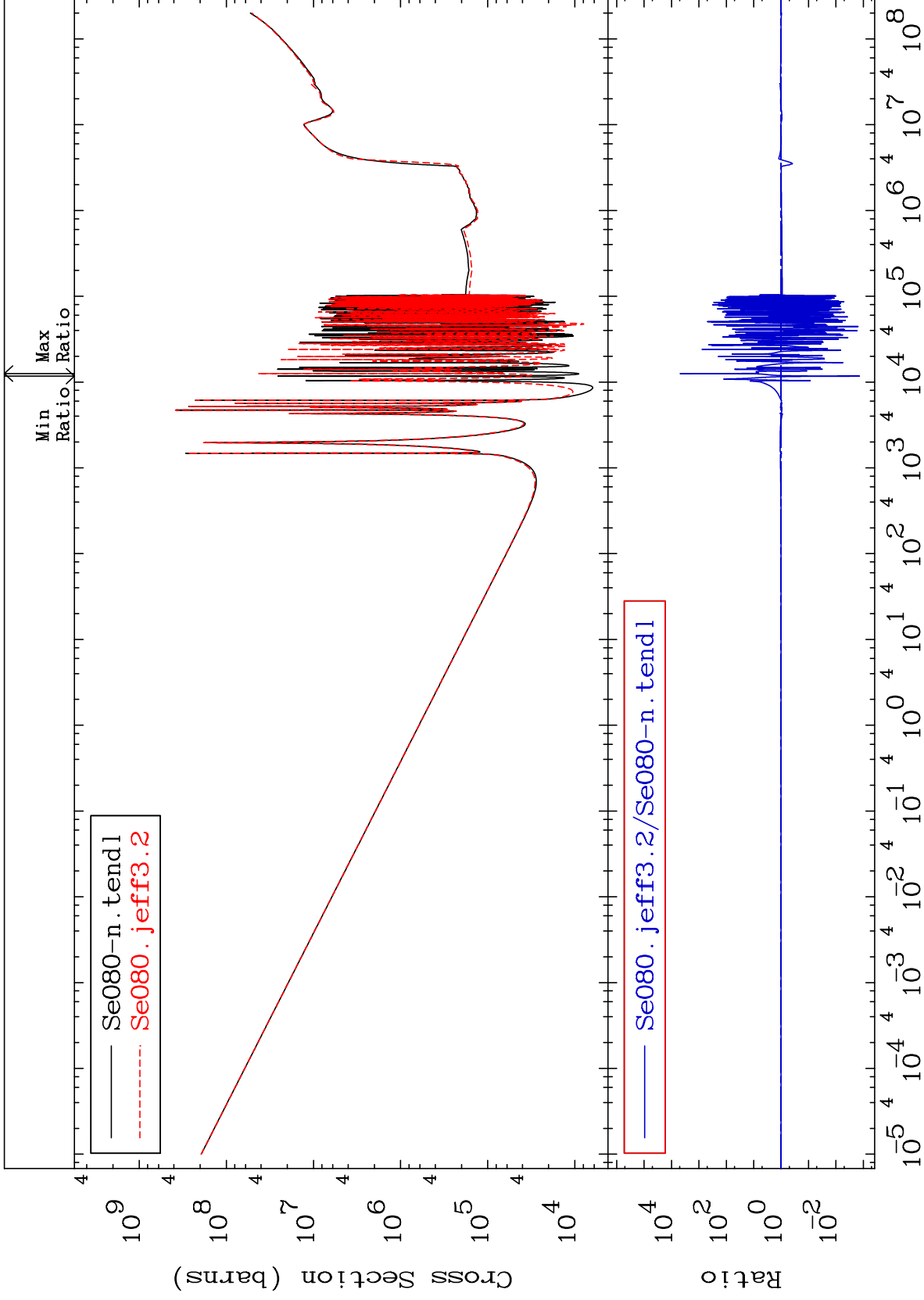


73

Incident Energy (eV)

34-Se-80

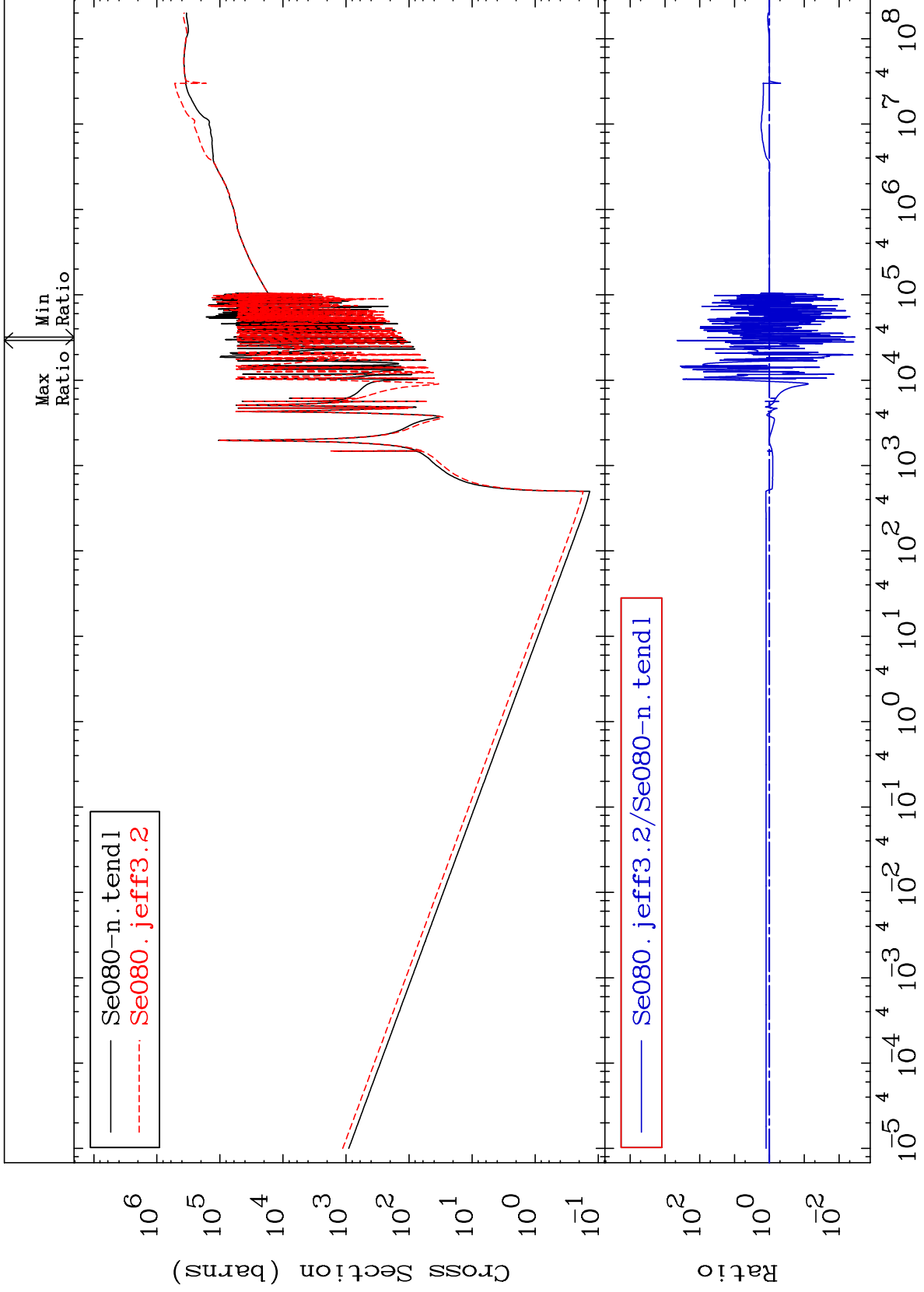


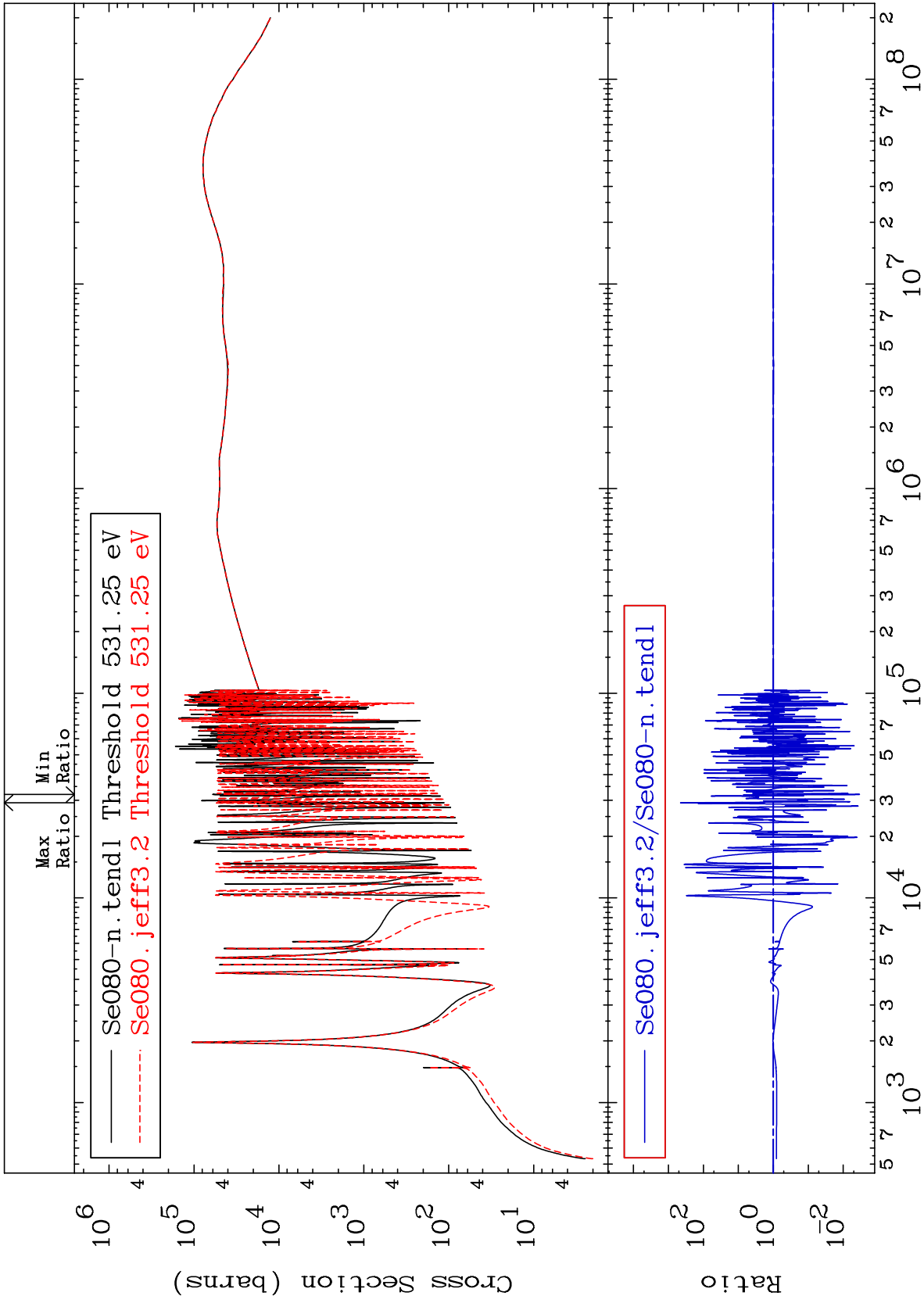


MAT 3443

Dpa total (eV-barns)  
Cross Section

34-Se-80  
-99.65 To 9999. %

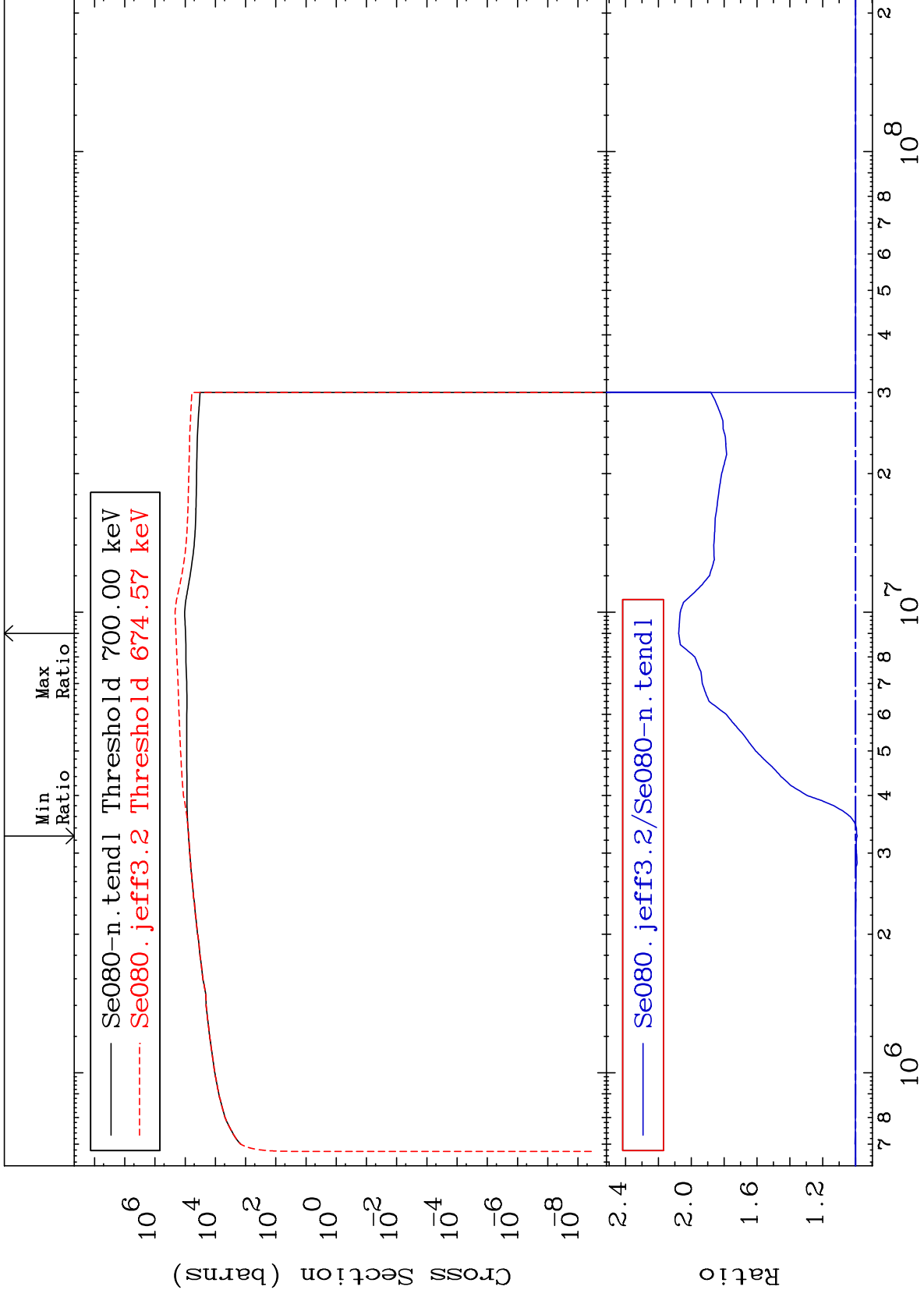




MAT 3443

Dpa inelastic (mt51-91)  
Cross Section

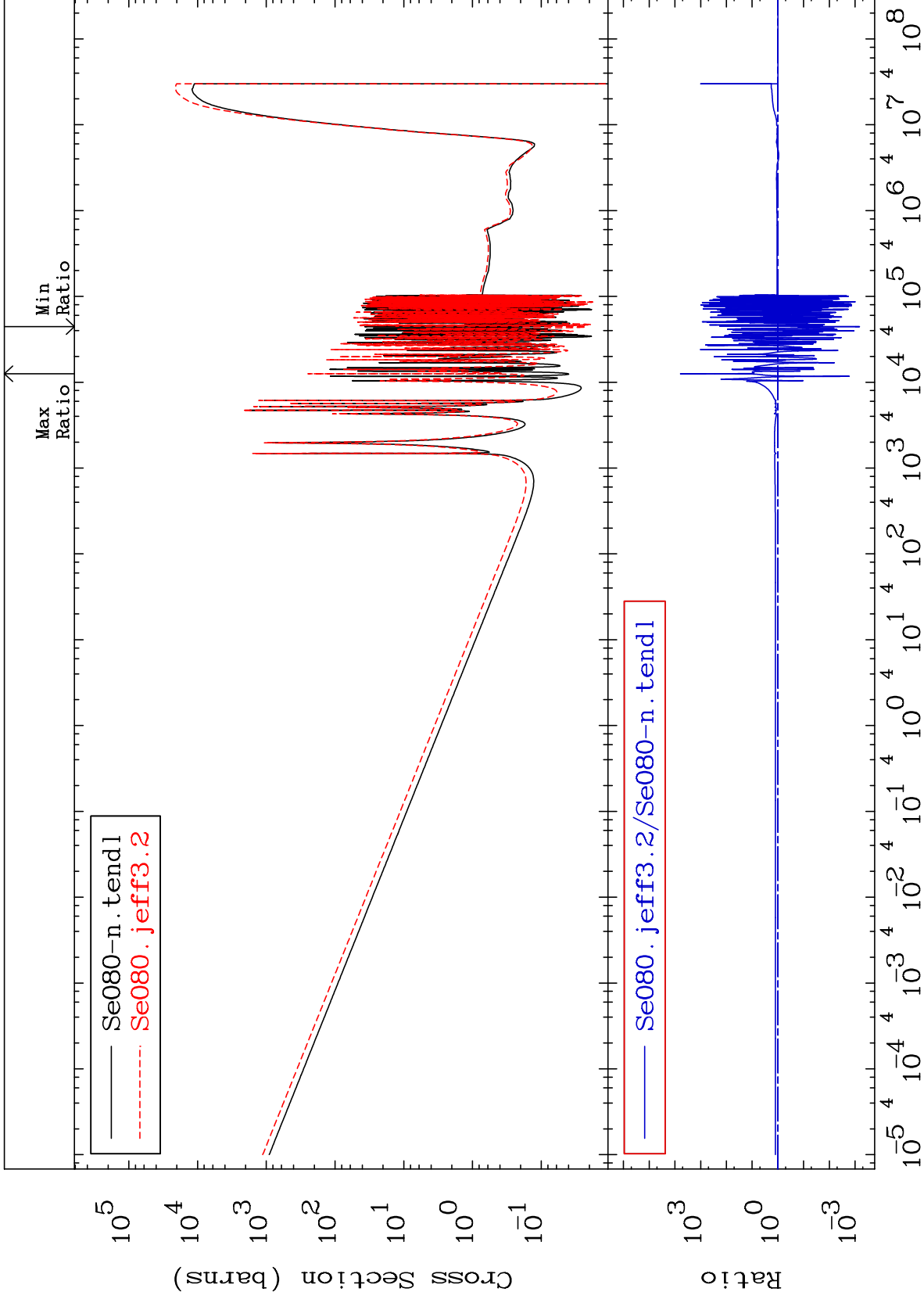
<sup>34</sup>Se-80  
-1.007 To 107.7 %



78

Incident Energy (eV)

<sup>34</sup>Se-80

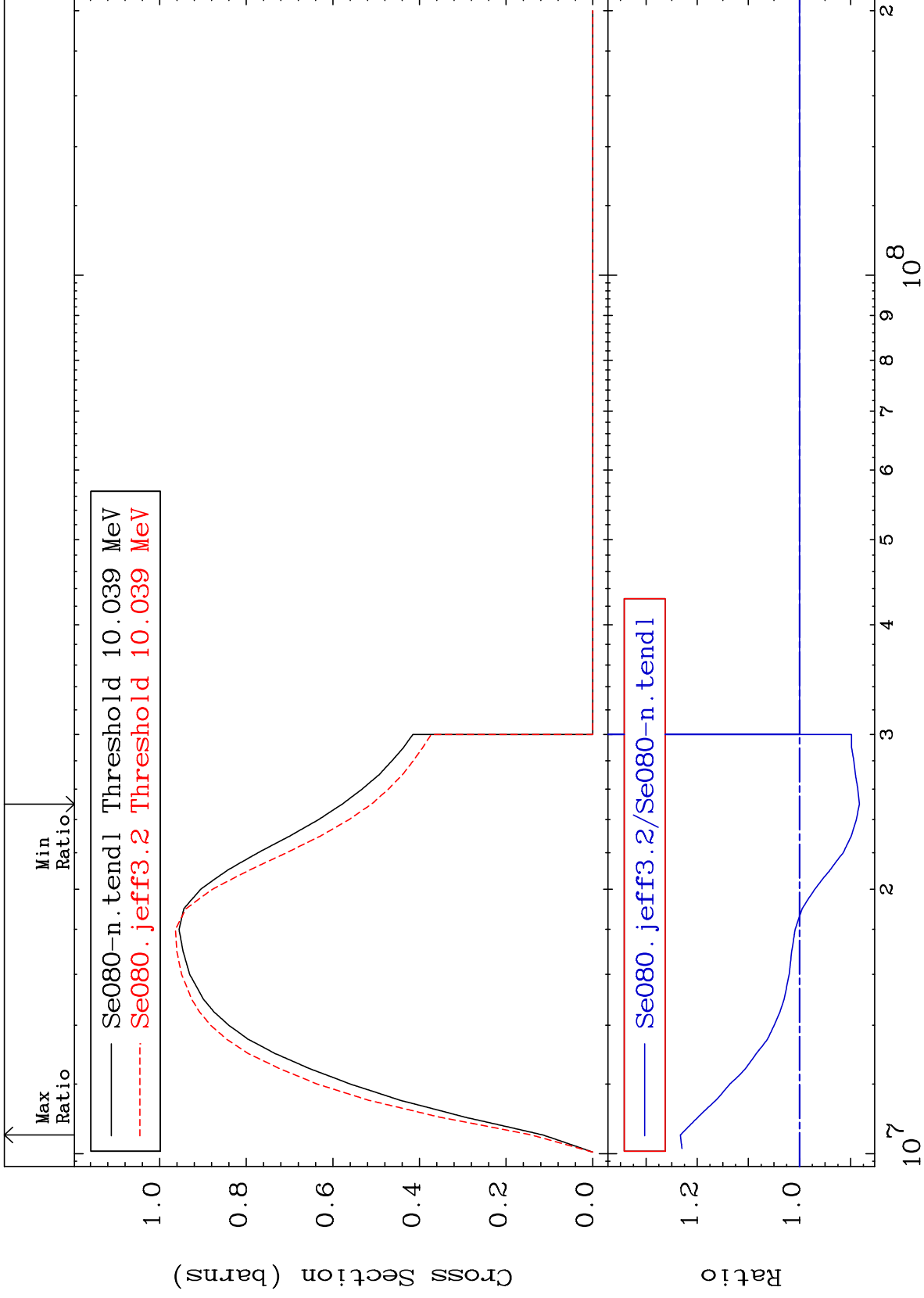


MAT 3443

(n,2n):34-Se-79g

34-Se-80

Radionuclide Production Cross Section -11.72 To 23.30 %



34-Se-80

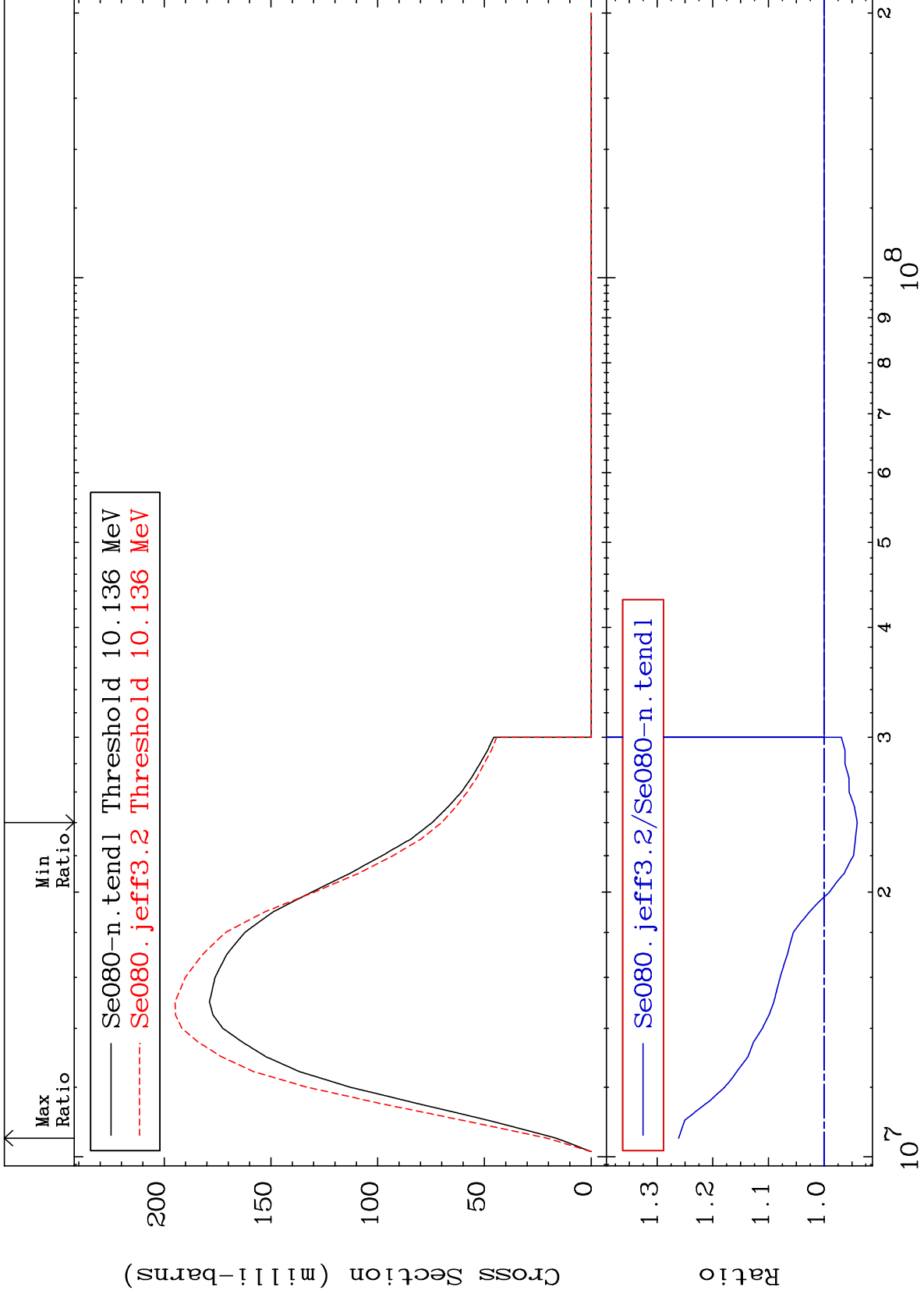


MAT 3443

(n,2n):34-Se-79m1

34-Se-80

Radionuclide Production Cross Section -5.952 To 26.14 %



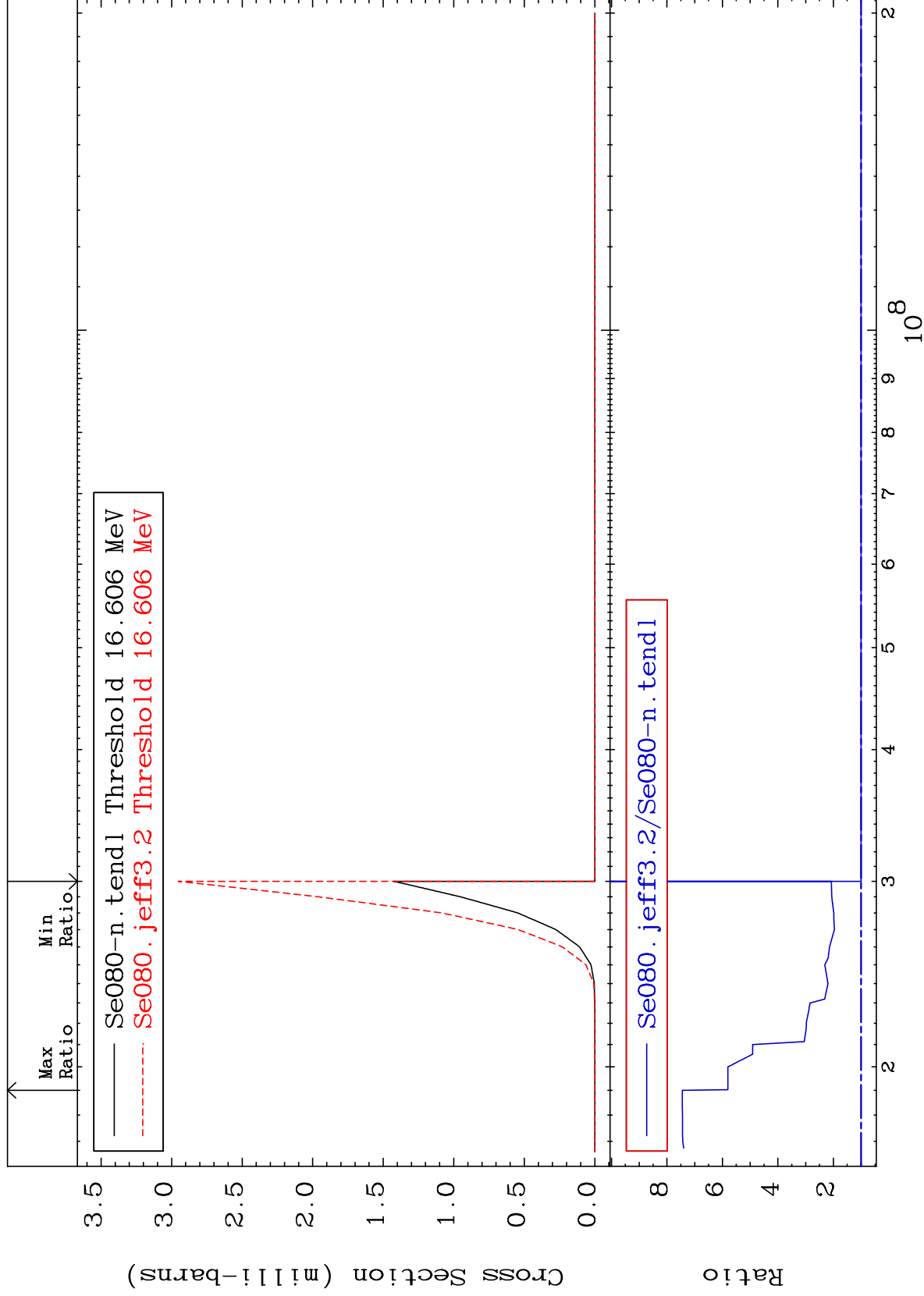
81

Incident Energy (eV)

34-Se-80

MAT 3443

(n,2n)  $\alpha$ :32-Ge-75g 34-Se-80  
Radionuclide Production Cross Section 0.000 To 644.5 %

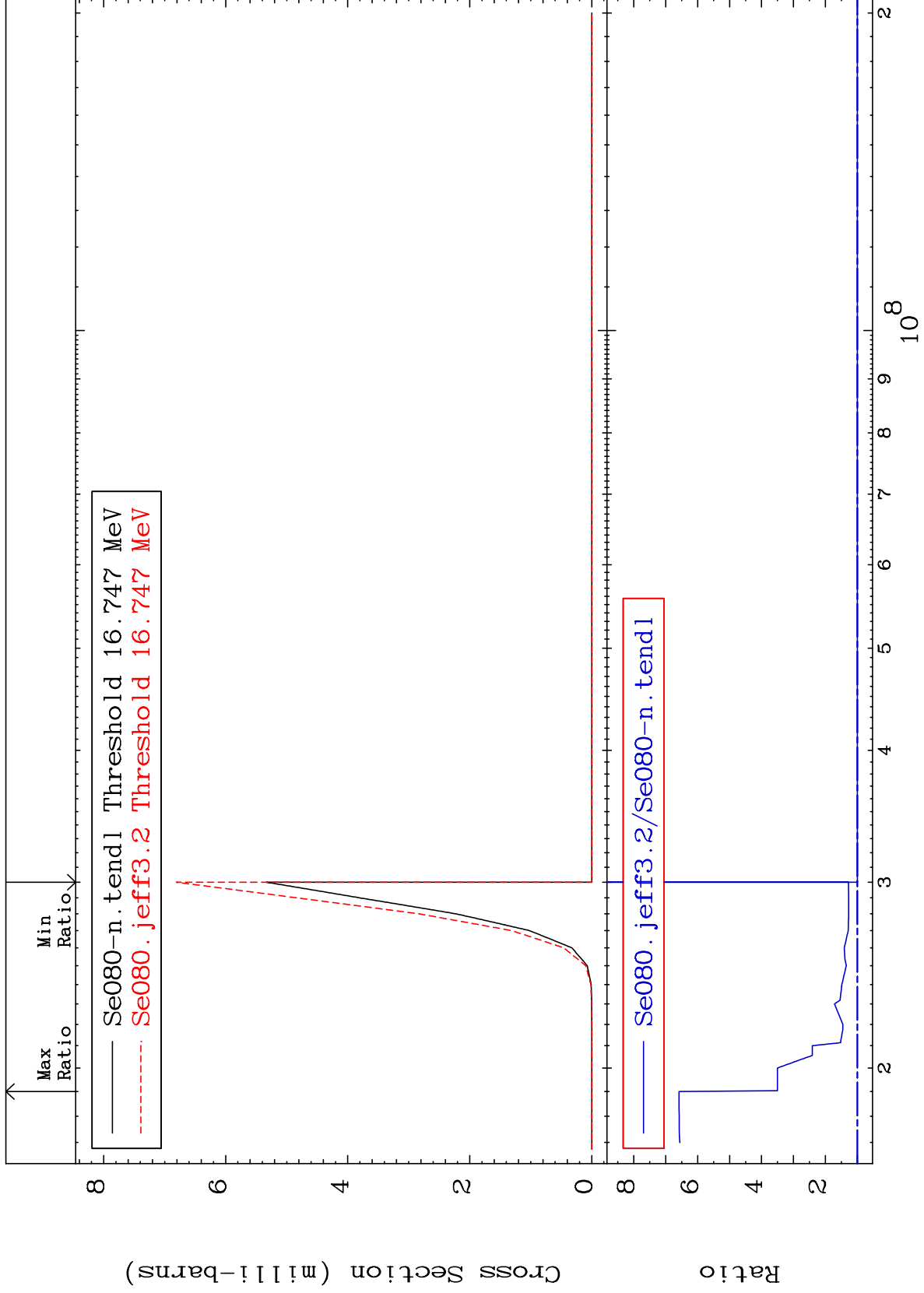


MAT 3443

(n,2n)  $\alpha$ : 32-Ge-75m2

34-Se-80

Radionuclide Production Cross Section 0.000 To 558.2 %

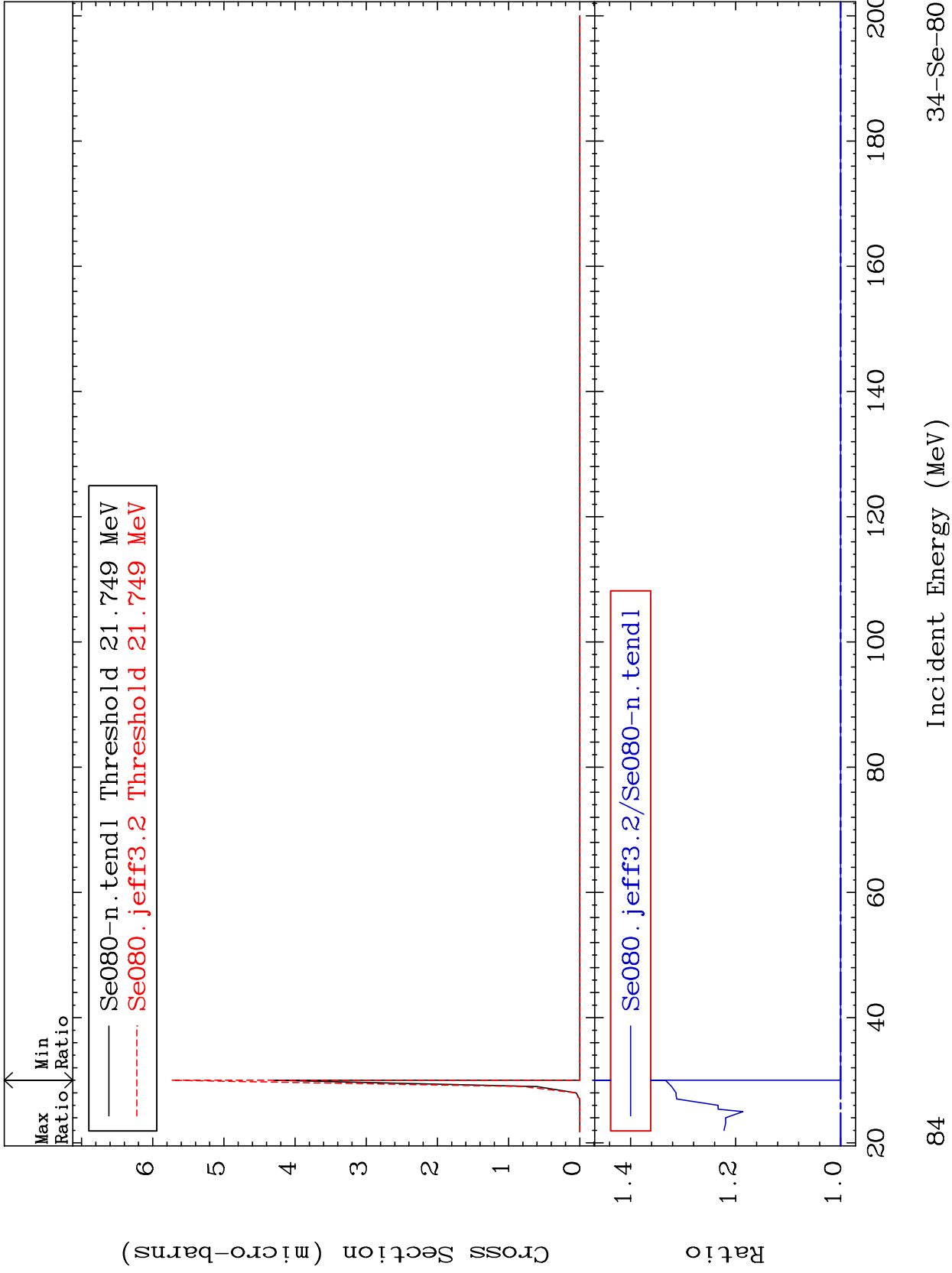


MAT 3443

$^{34}\text{Se-80}$

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

Radionuclide Production Cross Section 0.000 To 33.35 %



84

Incident Energy (MeV)

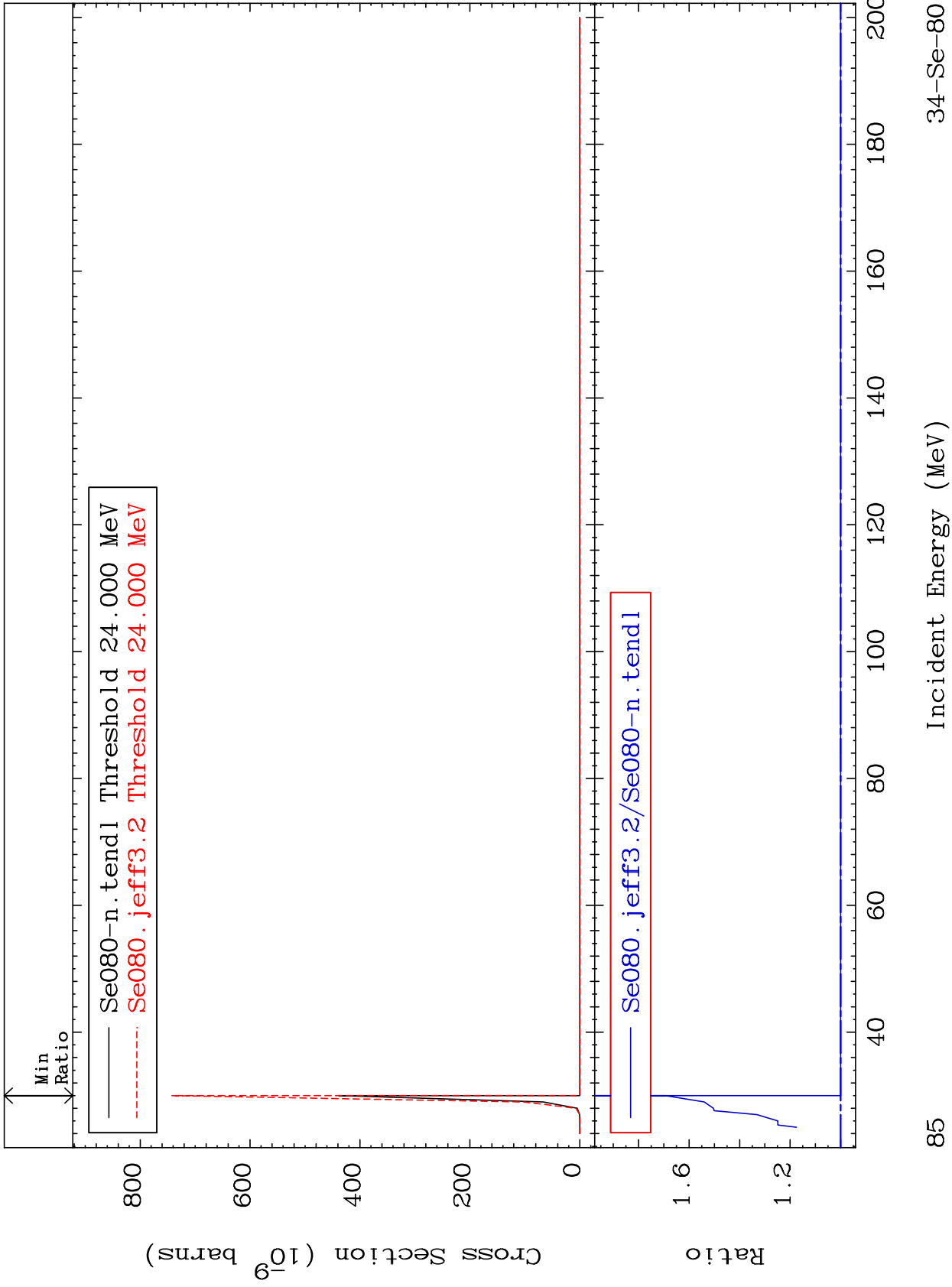
$^{34}\text{Se-80}$

MAT 3443

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

34-Se-80

Radionuclide Production Cross Section 0.000 To 69.35 %



85

Incident Energy (MeV)

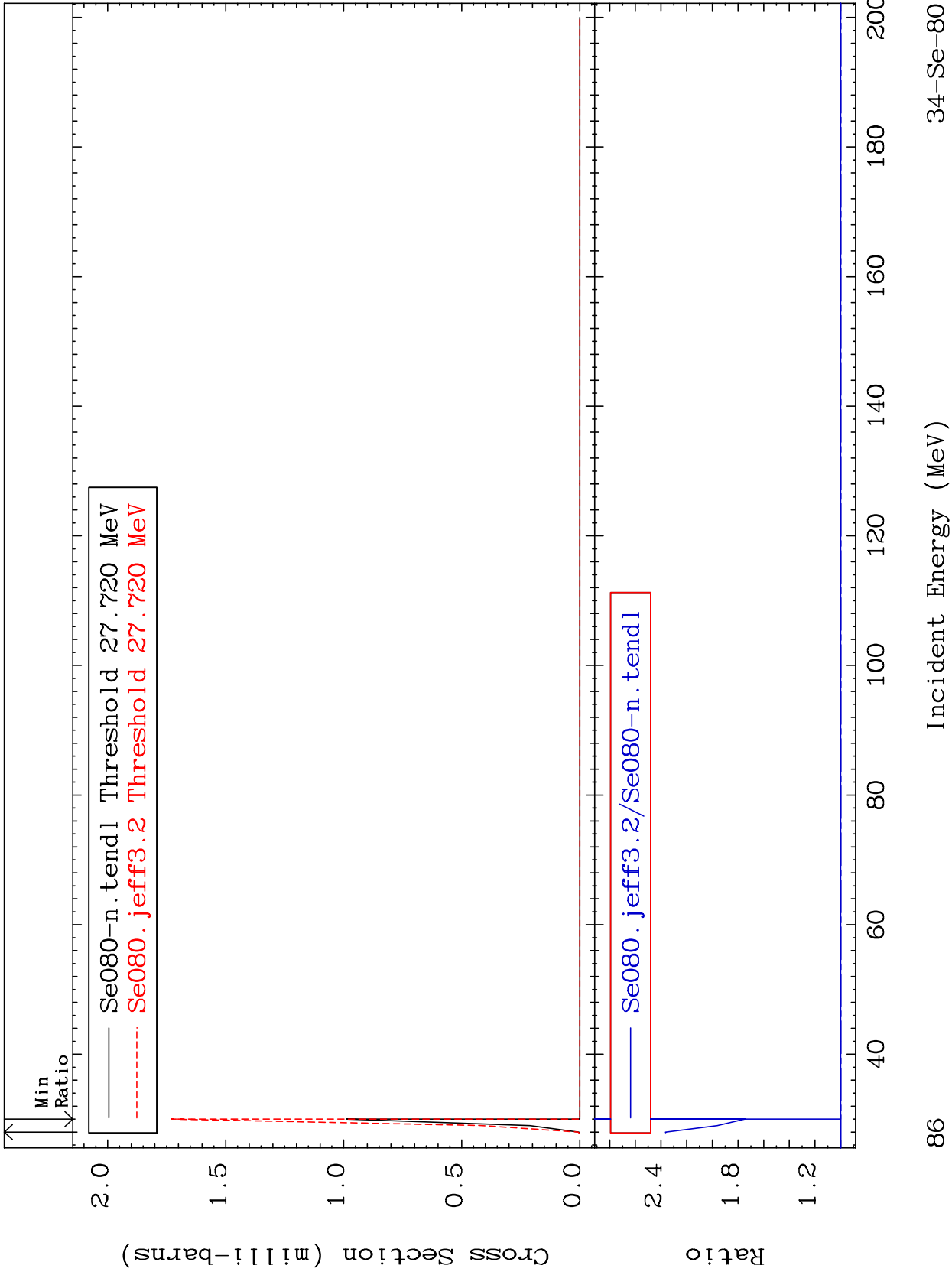
34-Se-80

MAT 3443

(n, 4n) : 34-Se-77g

34-Se-80

Radionuclide Production Cross Section 0.000 To 136.5 %

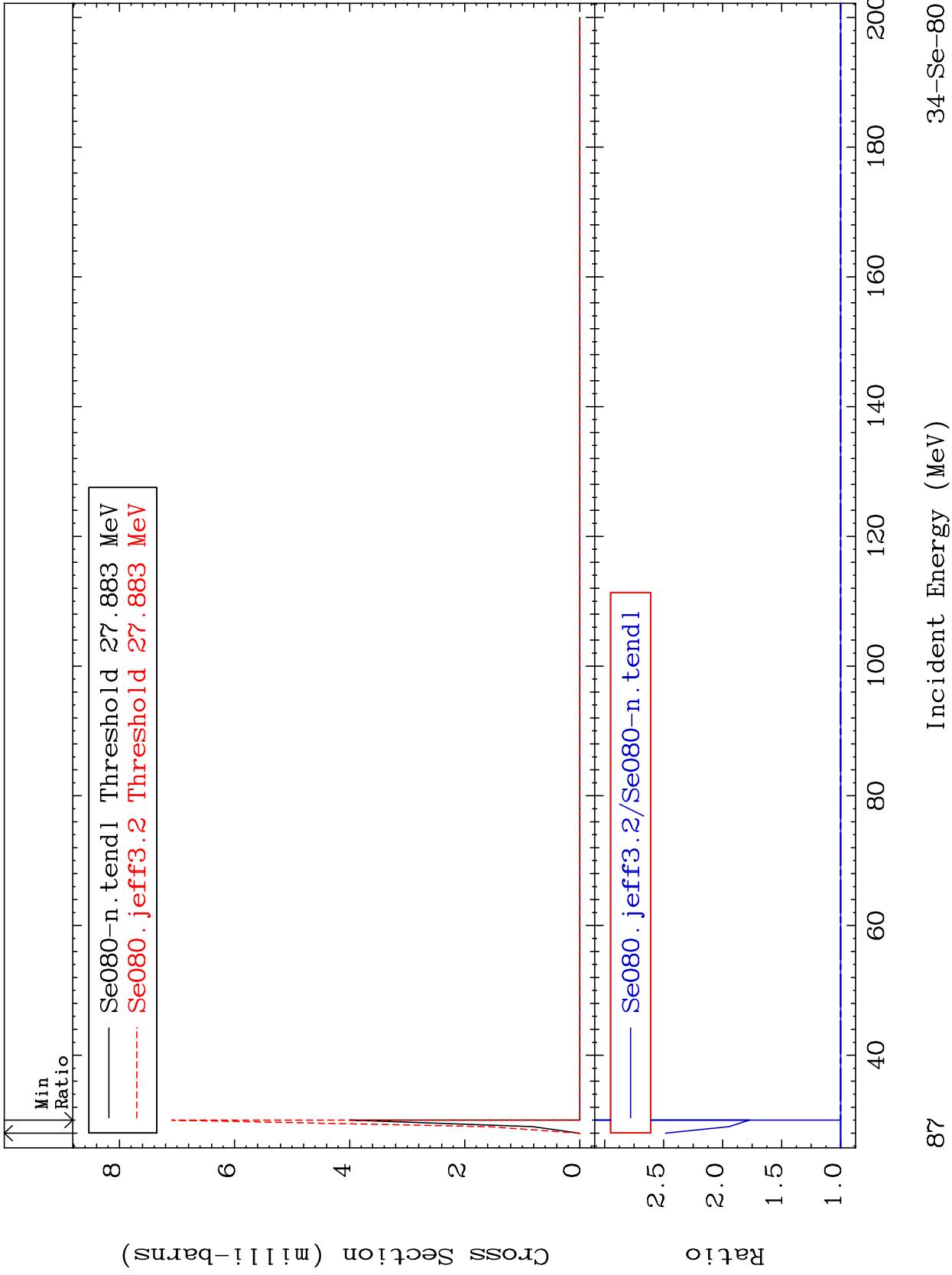


MAT 3443

(n, 4n):34-Se-77m1

34-Se-80

Radionuclide Production Cross Section 0.000 To 148.4 %

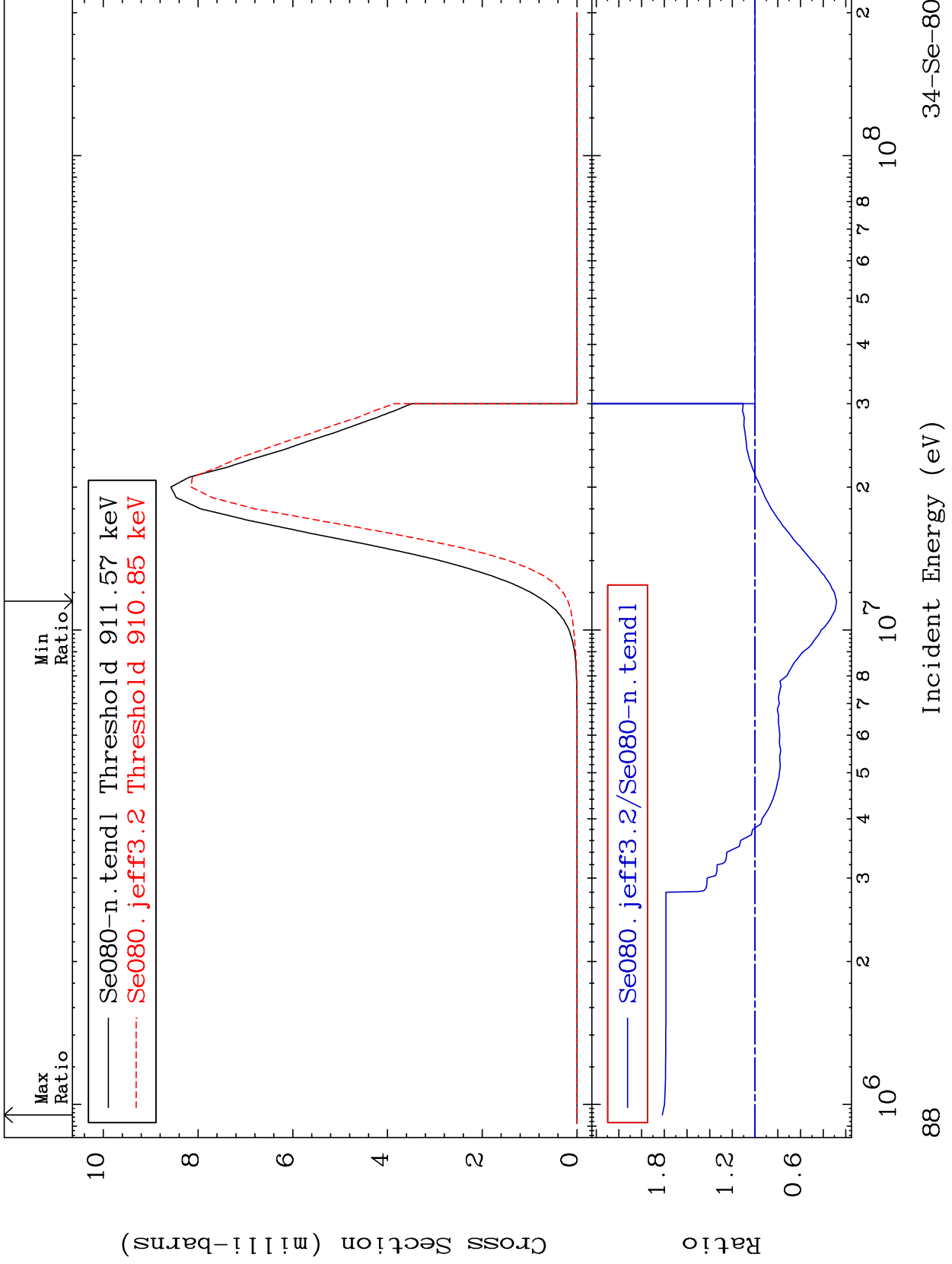


MAT 3443

$^{34}\text{Se-80}$

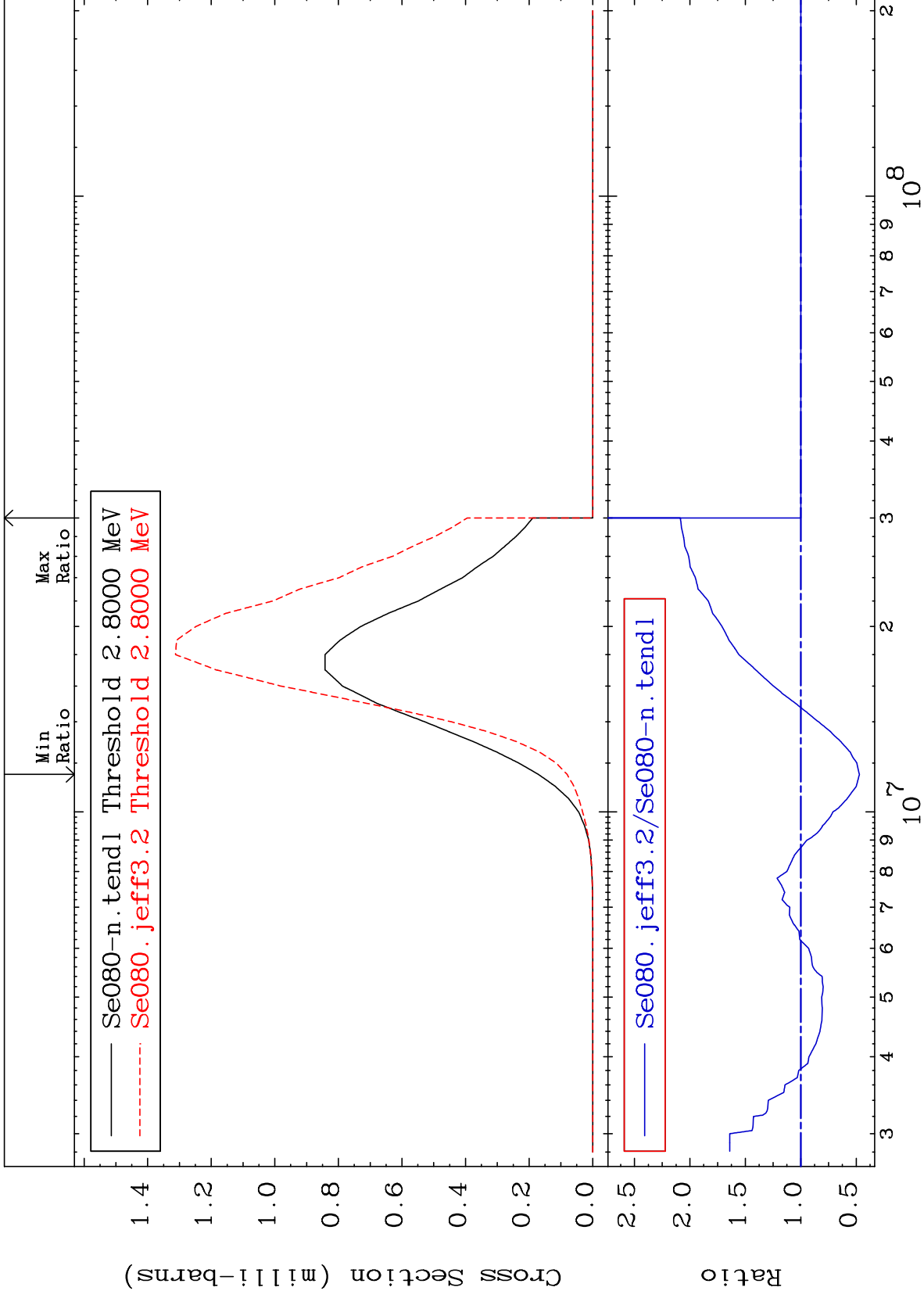
$(n, \alpha)$ :  $^{32}\text{Ge-77g}$

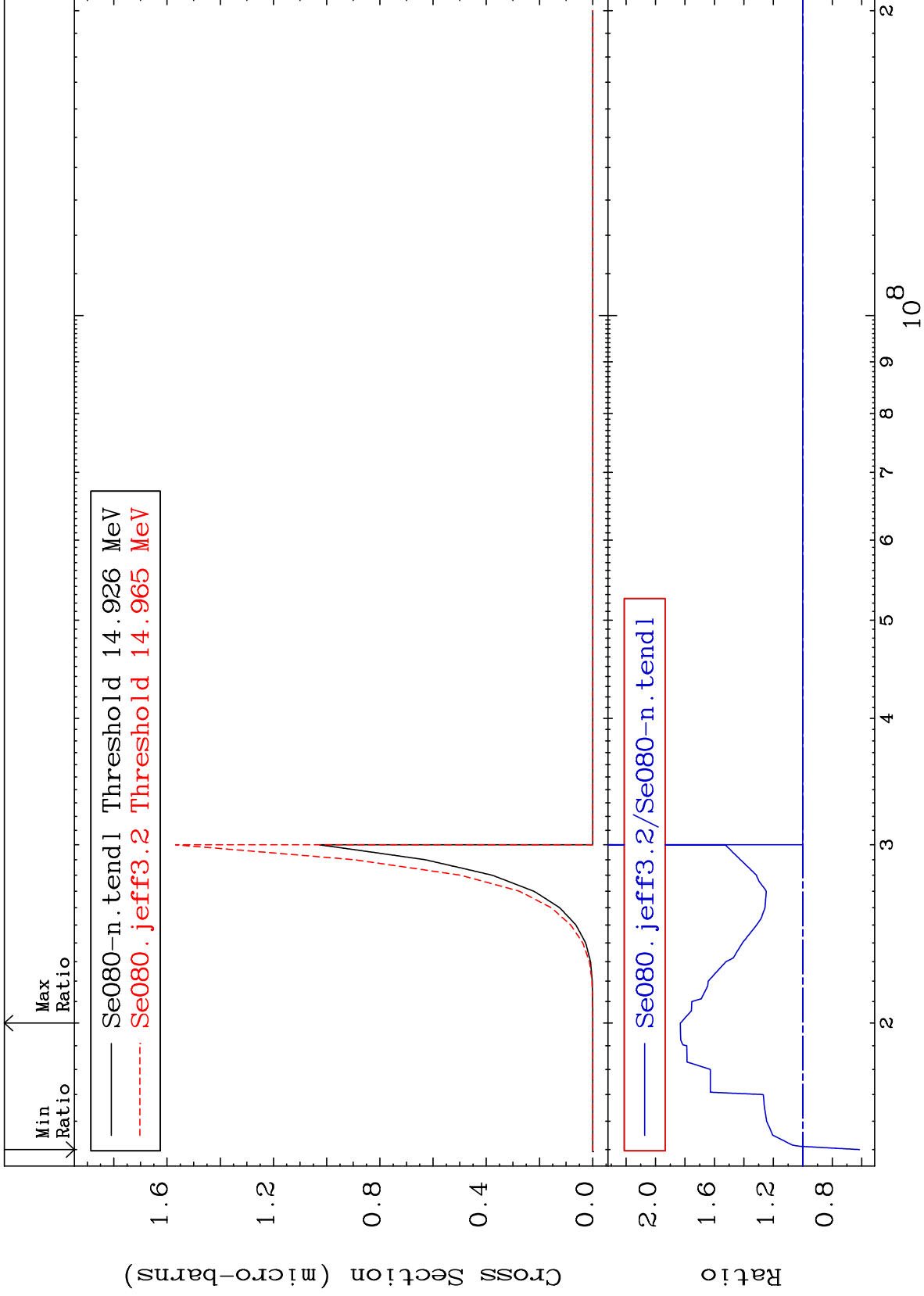
Radionuclide Production Cross Section -71.88 To 81.74 %



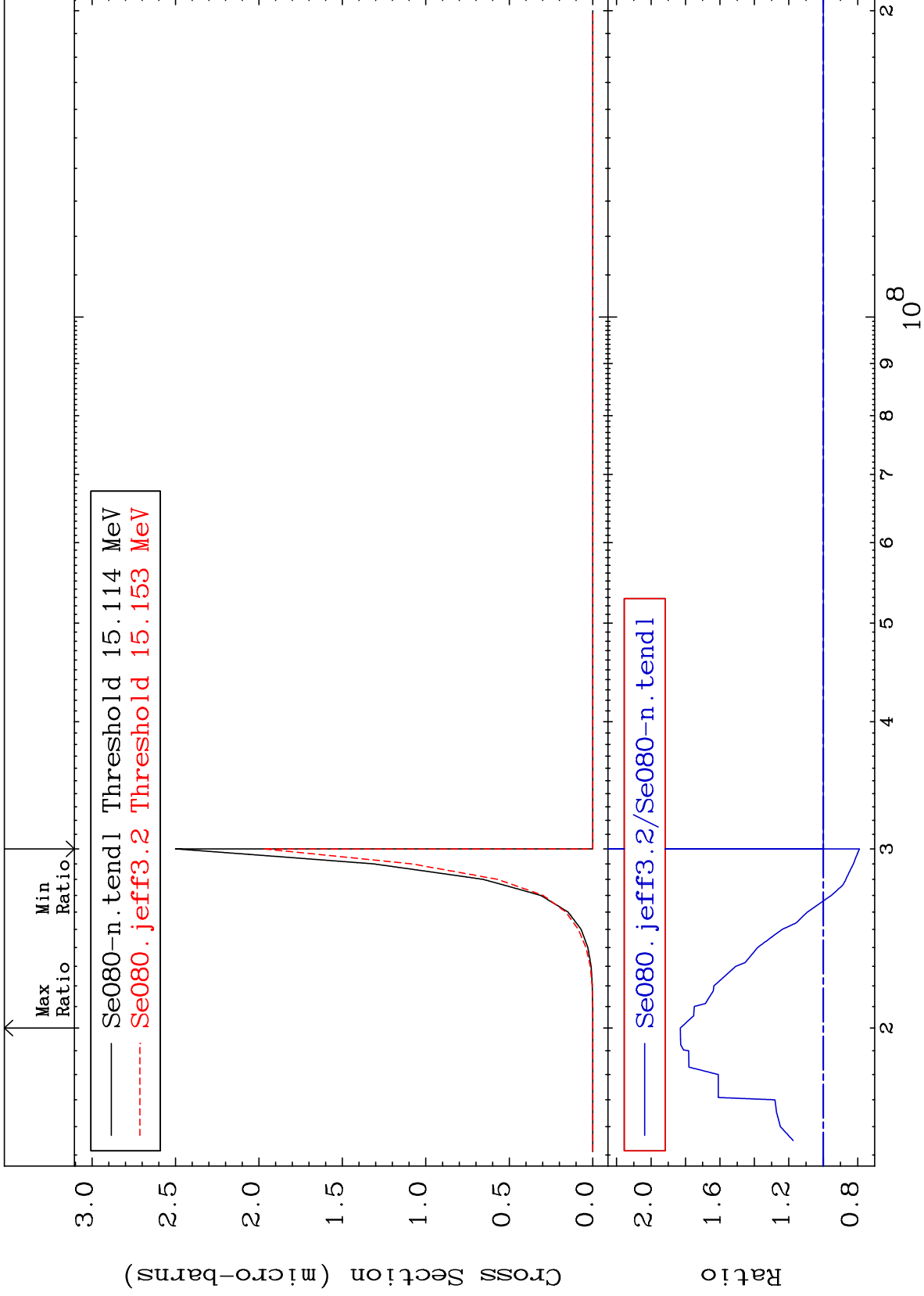


Radionuclide Production Cross Section -52.88 To 108.6 %





Radionuclide Production Cross Section -20.99 To 82.98 %

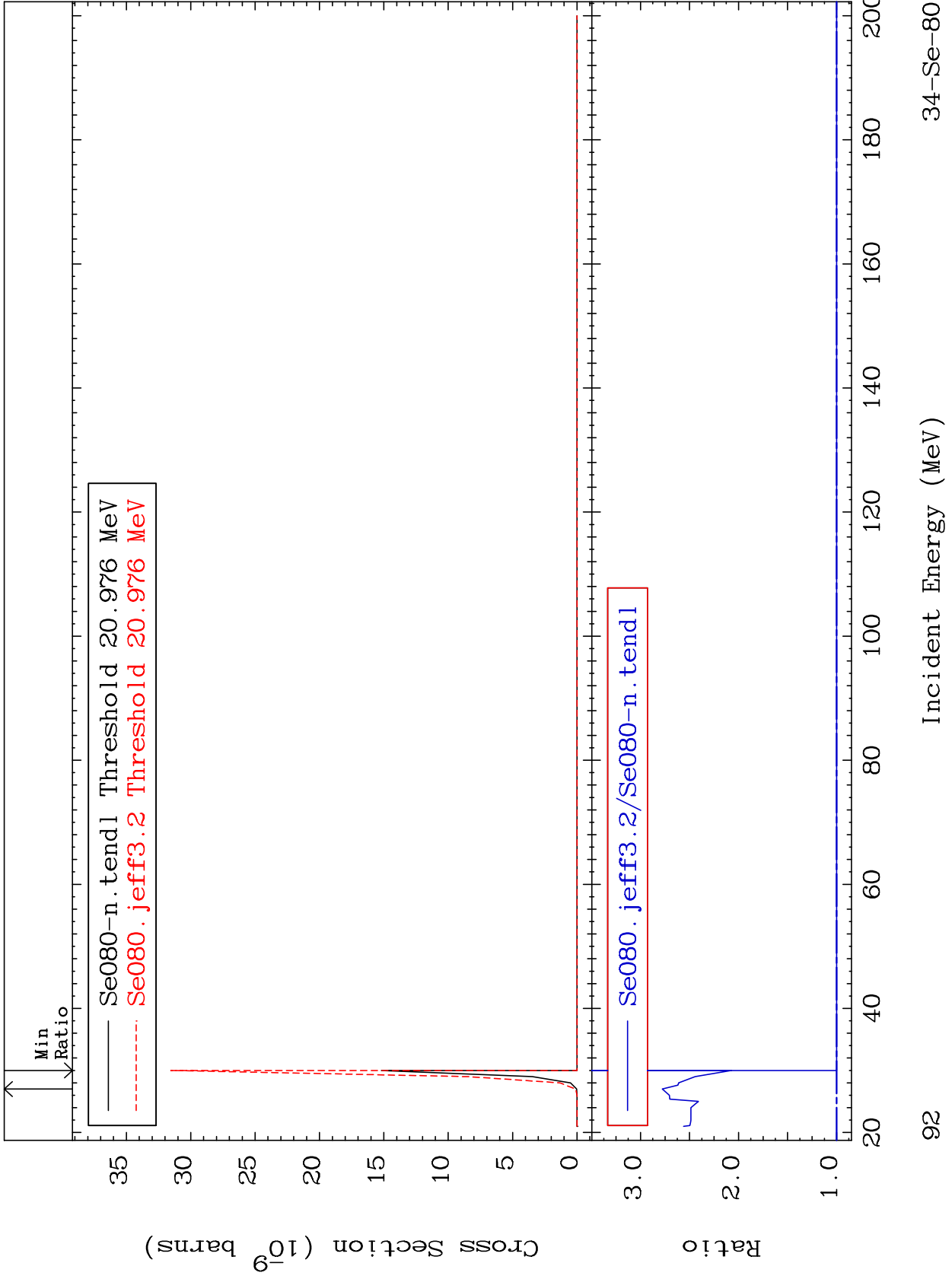


MAT 3443

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

<sup>34</sup>Se-80

Radionuclide Production Cross Section 0.000 To 177.8 %



92

<sup>34</sup>Se-80

MAT 3443

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

34-<sup>Se</sup>-80

Radionuclide Production Cross Section 0.000 To 343.7 %

