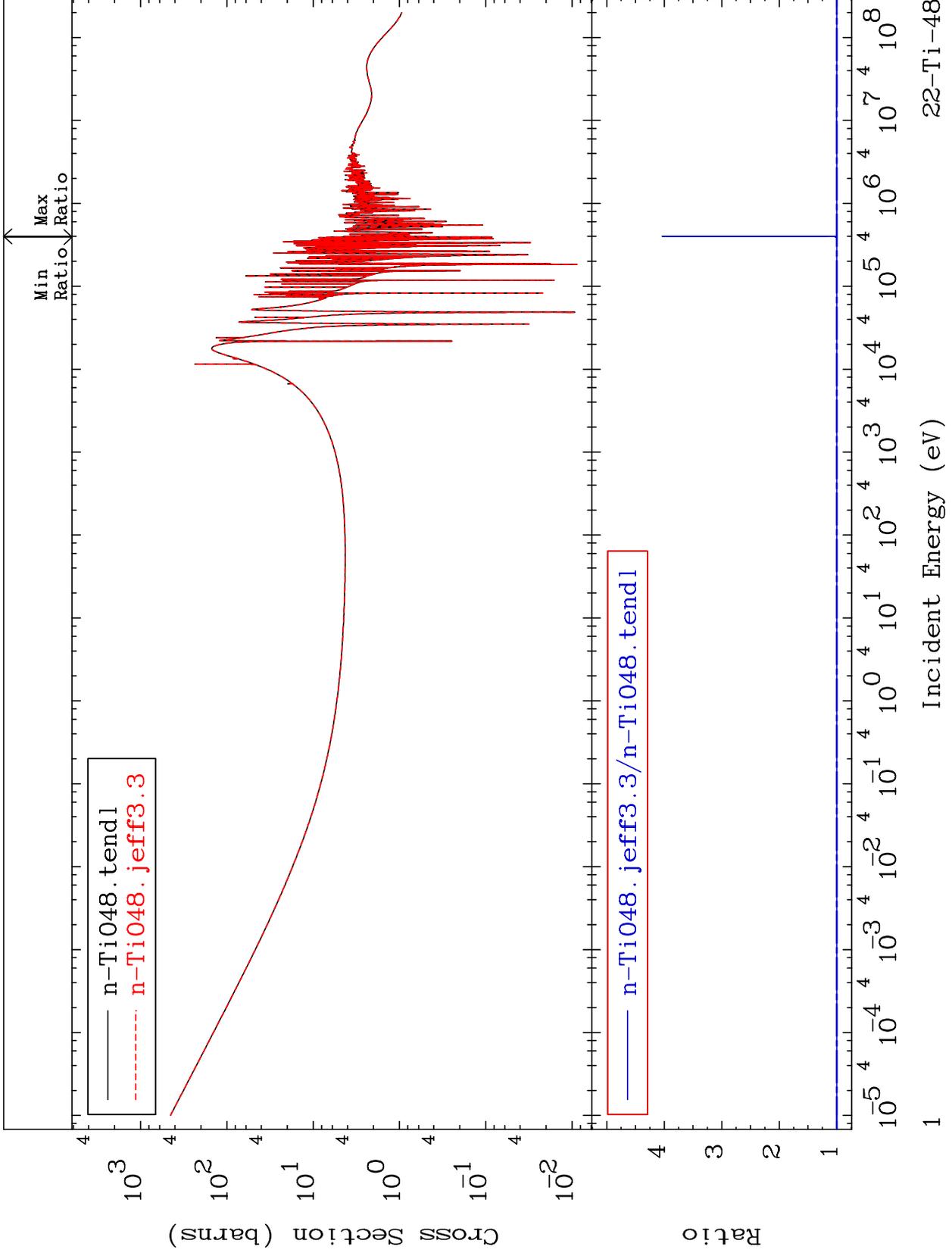


MAT 2231

Total  
Cross Section

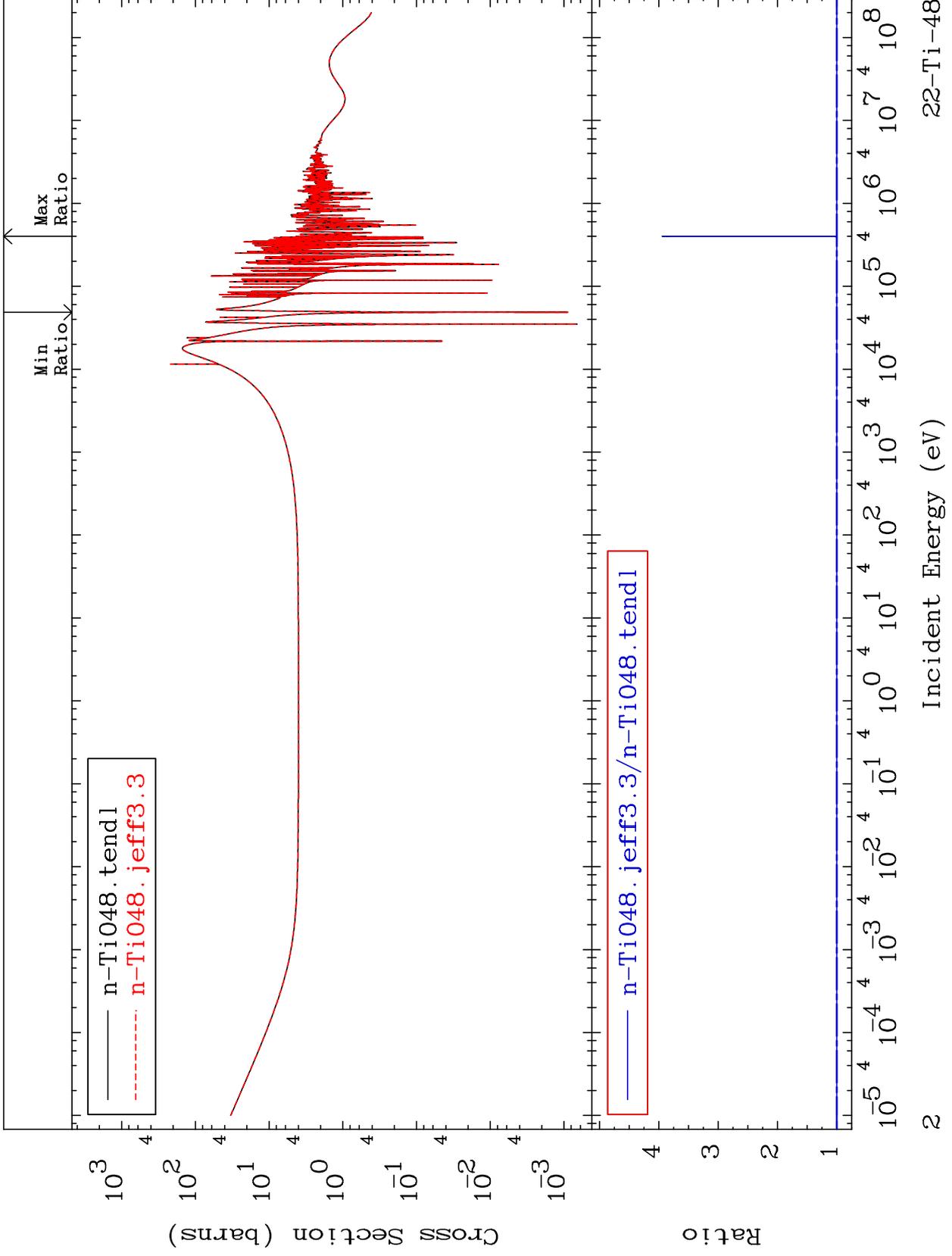
22-Ti-48  
-0.078 To 303.3 %



MAT 2231

Elastic  
Cross Section

22-Ti-48  
-0.084 To 294.0 %



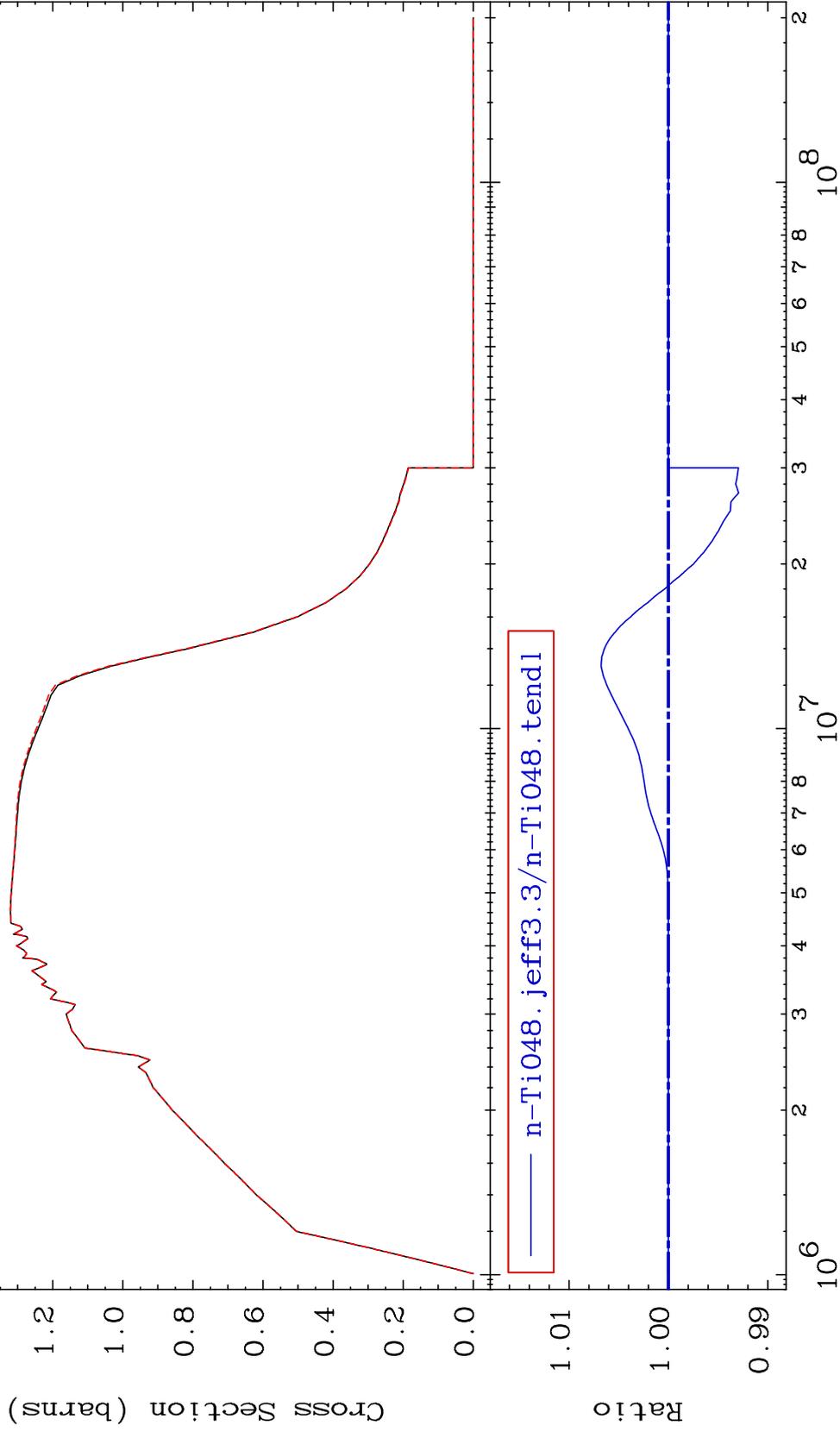
MAT 2231

Inelastic  
Cross Section

$^{22}\text{Ti}-48$   
-0.708 To 0.677 %

— n-Ti048.tendl Threshold 1.0042 MeV  
- - - n-Ti048.jeff3.3 Threshold 1.0042 MeV

Max  
Ratio  
Min  
Ratio



Incident Energy (eV)

$^{22}\text{Ti}-48$

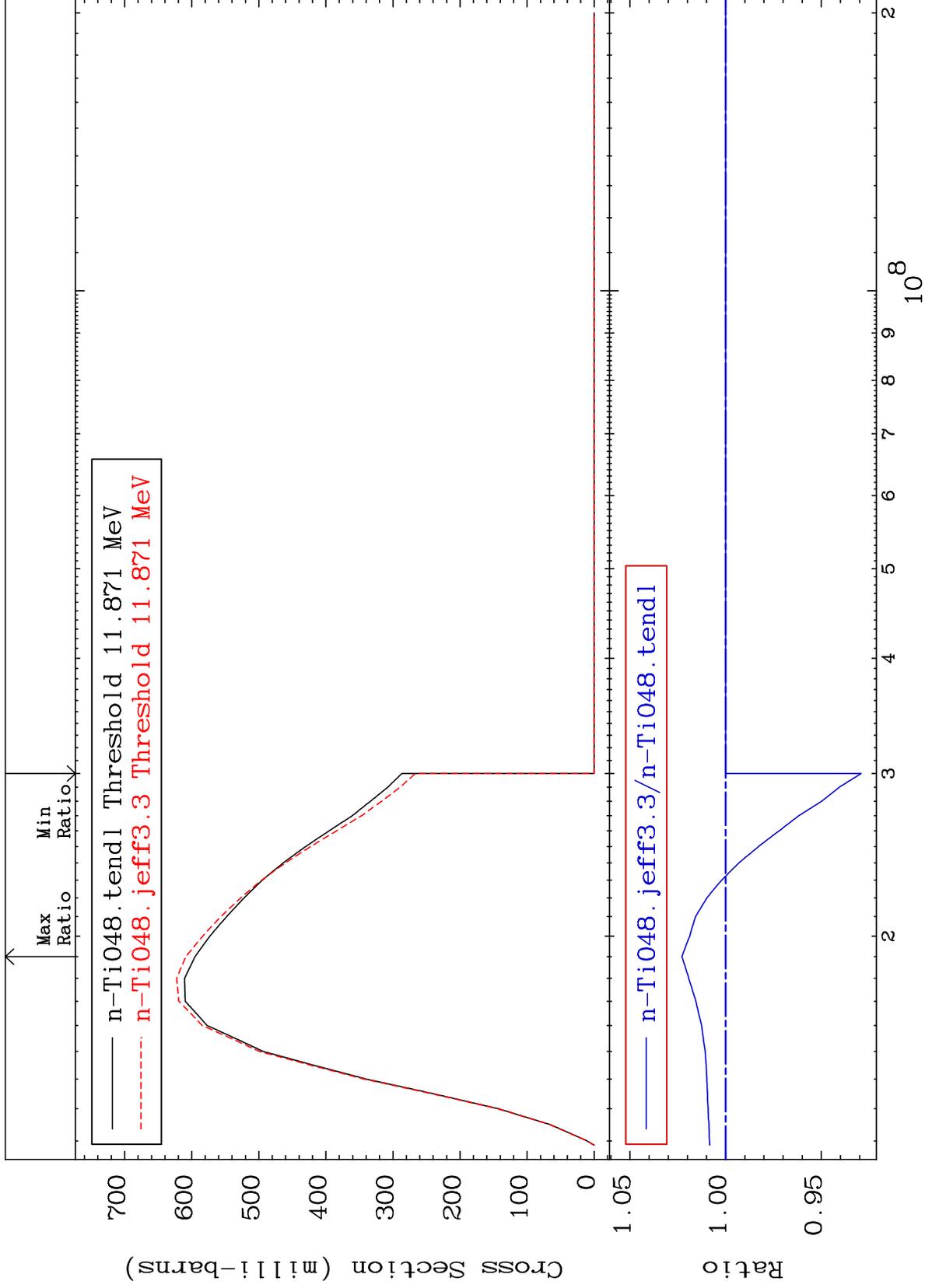
MAT 2231

(n,2n)

<sup>22</sup>Ti-48

Cross Section

-7.078 To 2.287 %



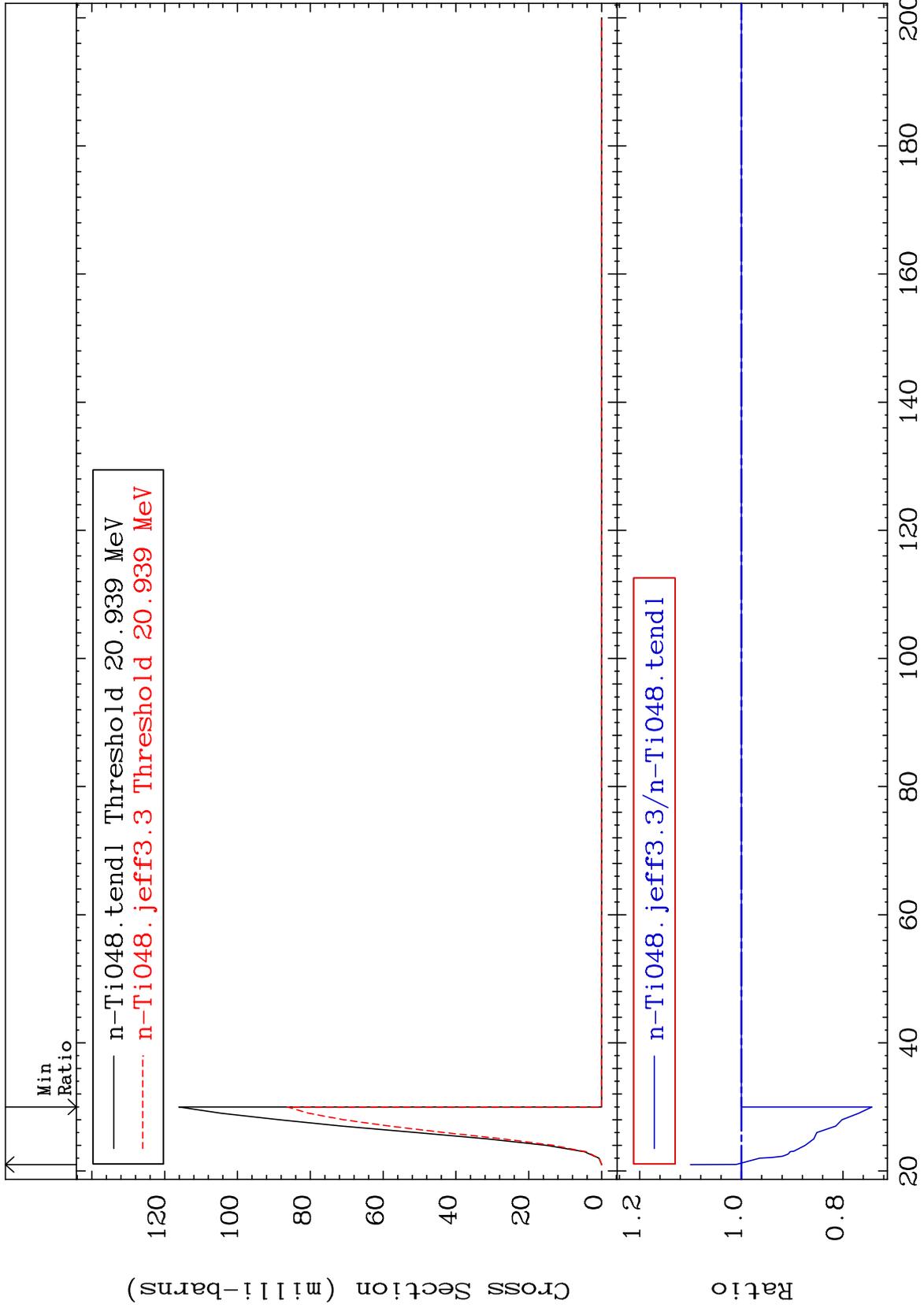
Incident Energy (eV)

<sup>22</sup>Ti-48

MAT 2231

(n,3n)  
Cross Section

<sup>22</sup>Ti-48  
-25.69 To 10.02 %



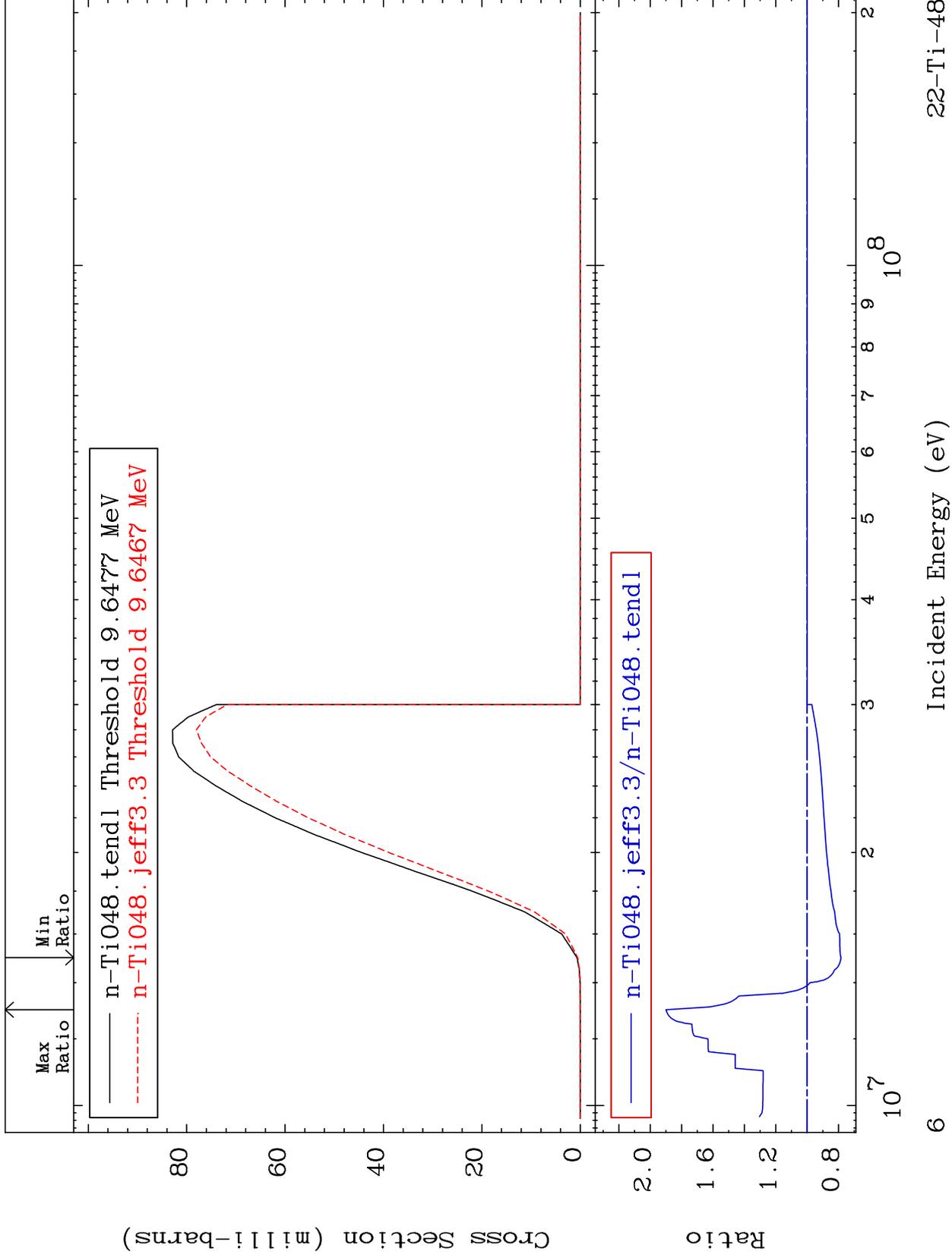
Incident Energy (MeV)

<sup>22</sup>Ti-48

MAT 2231

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

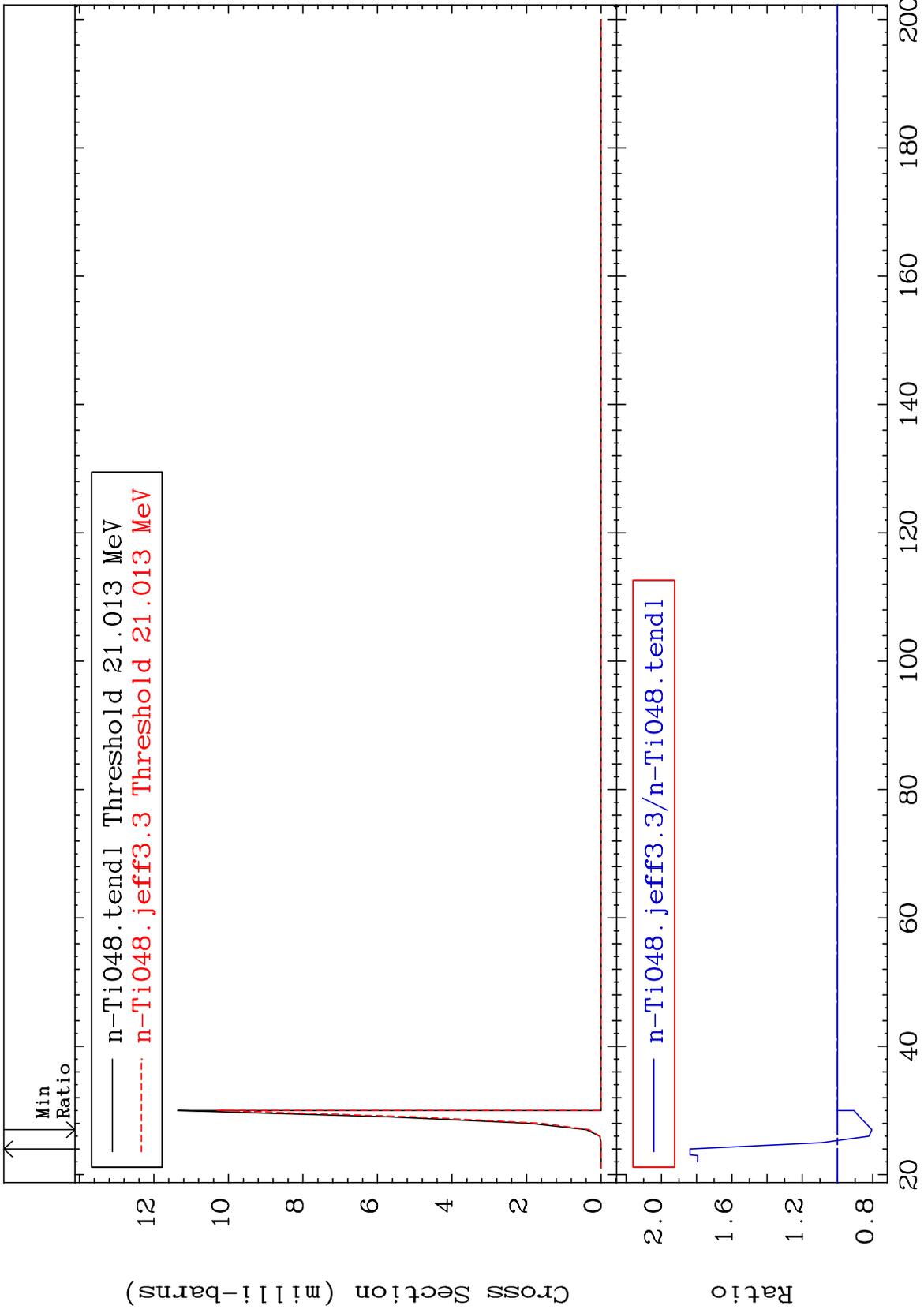
22-Ti-48  
-21.61 To 89.97 %



MAT 2231

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

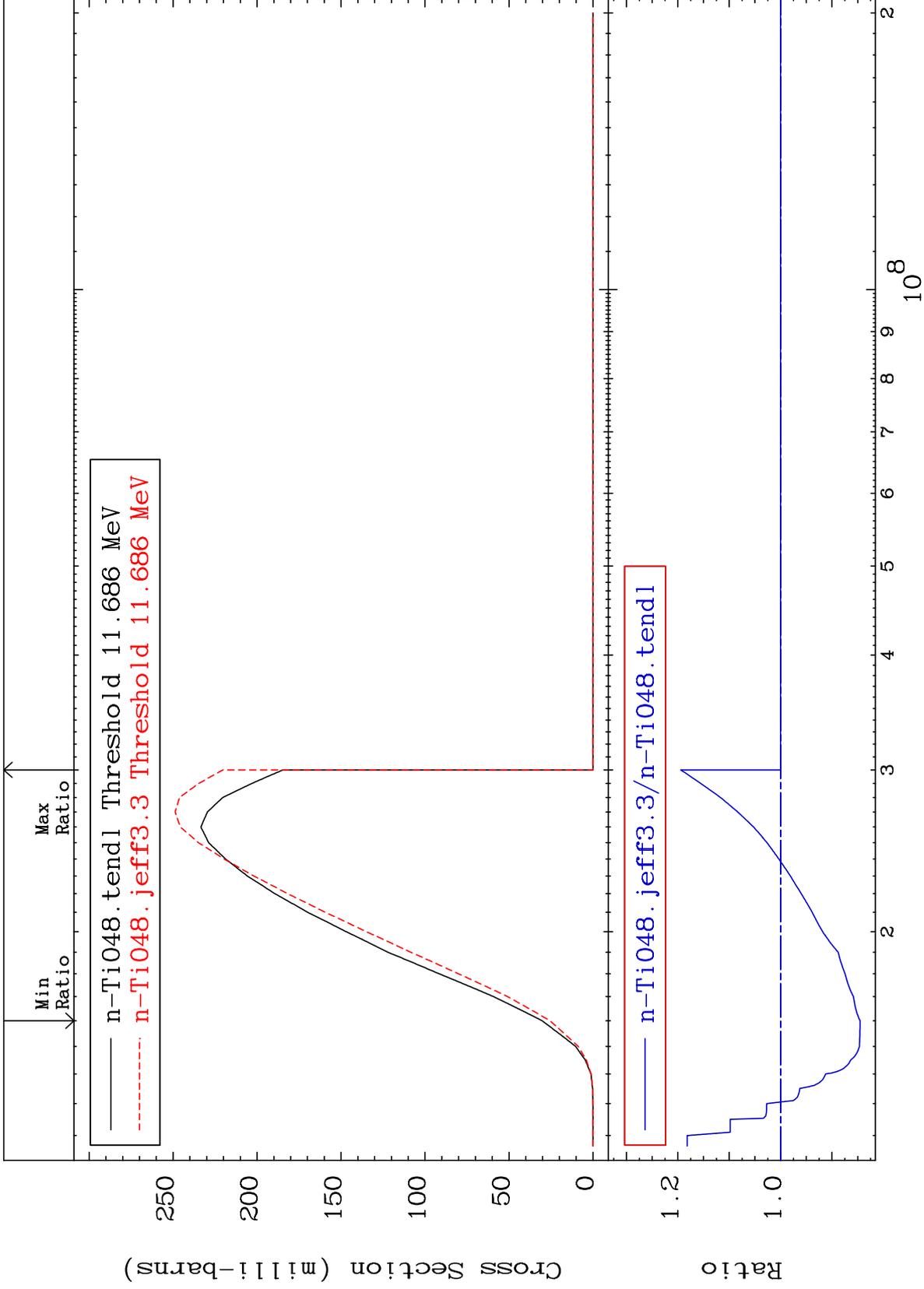
$^{22}\text{Ti}-48$   
-19.46 To 83.70 %



MAT 2231

(n,n') p  
Cross Section

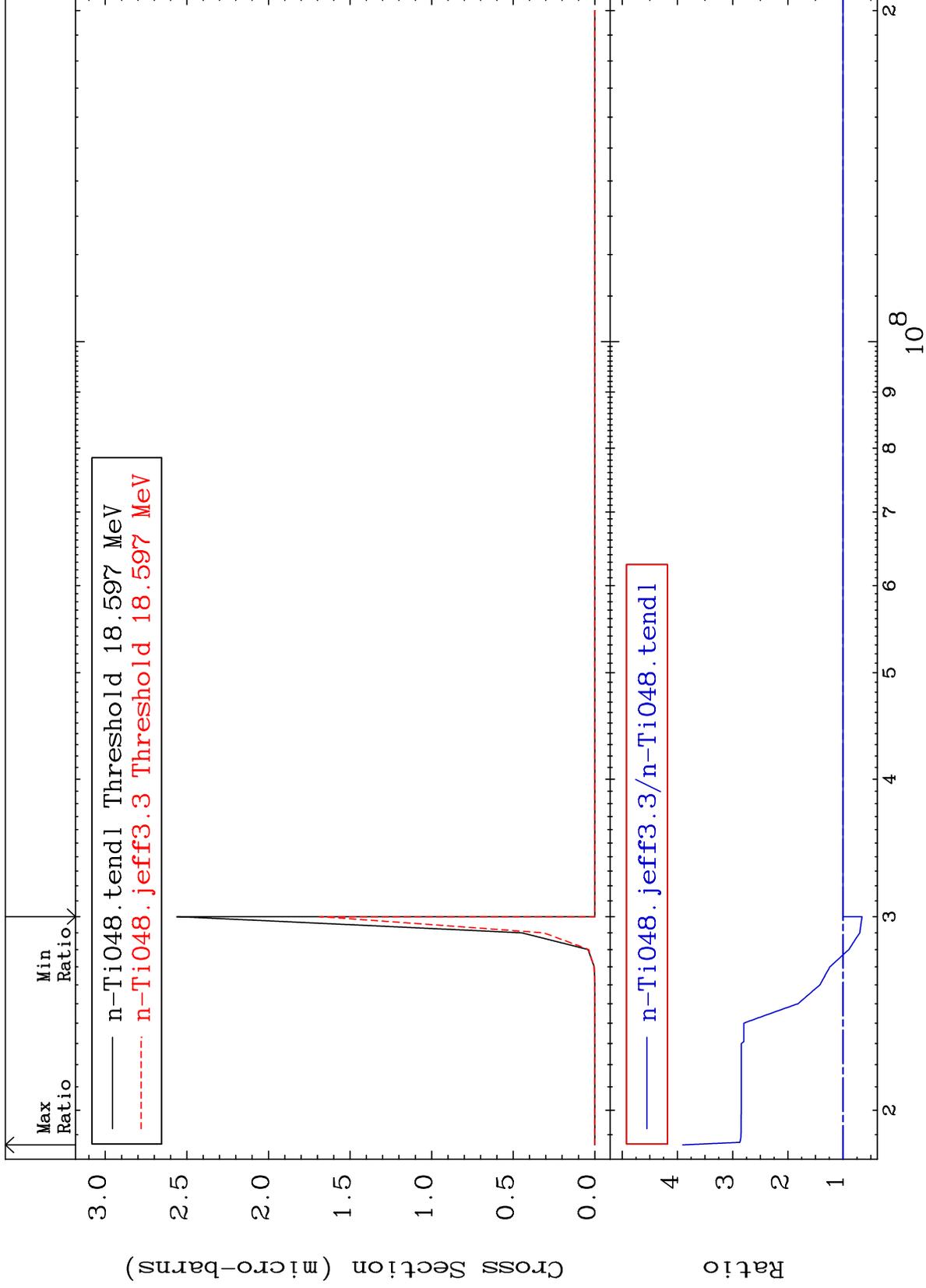
22-Ti-48  
-15.47 To 19.44 %



MAT 2231

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

22-Ti-48  
-34.23 To 290.5 %



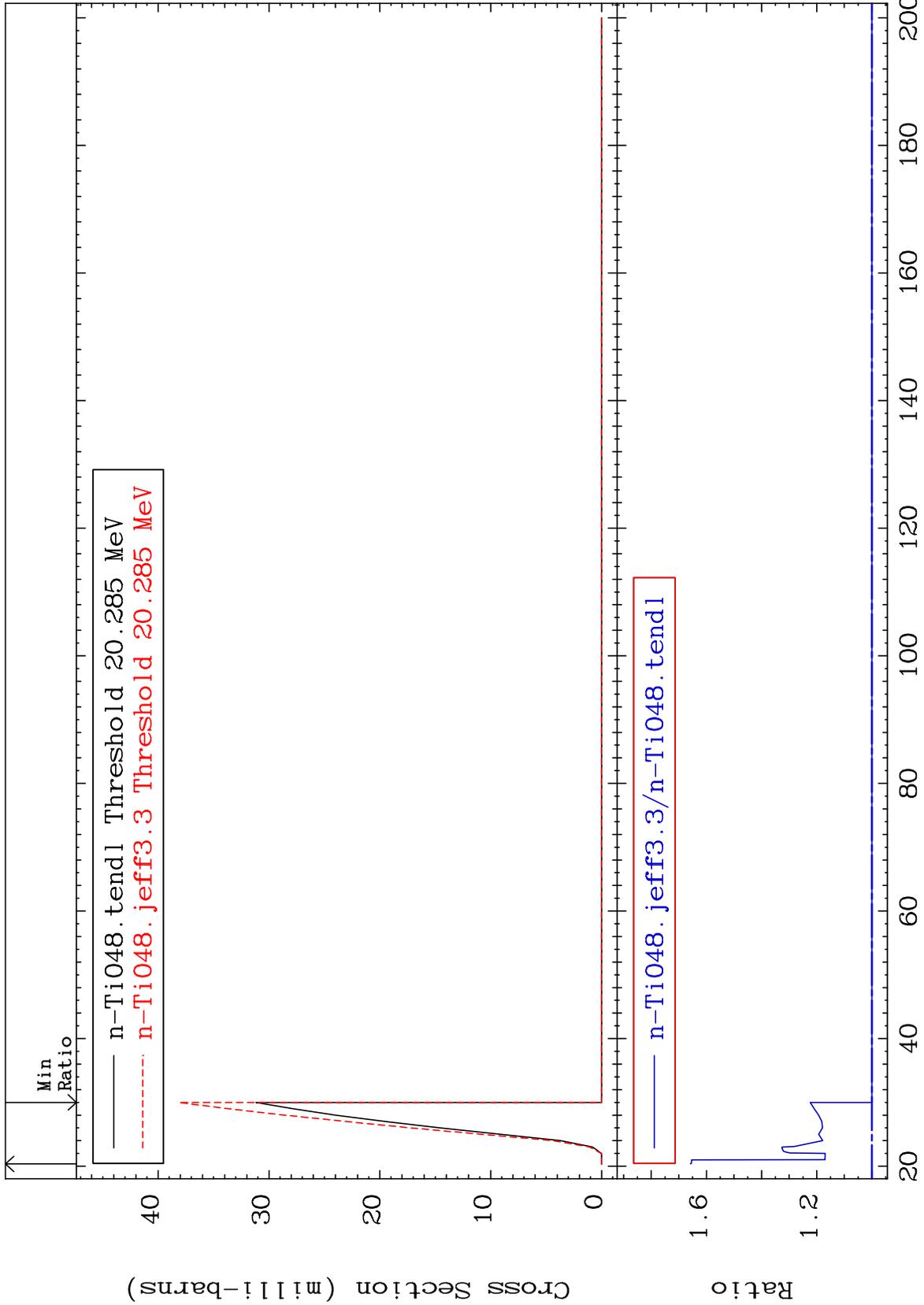
MAT 2231

(n,n') d

<sup>22</sup>Ti-48

Cross Section

0.000 To 65.77 %



<sup>22</sup>Ti-48

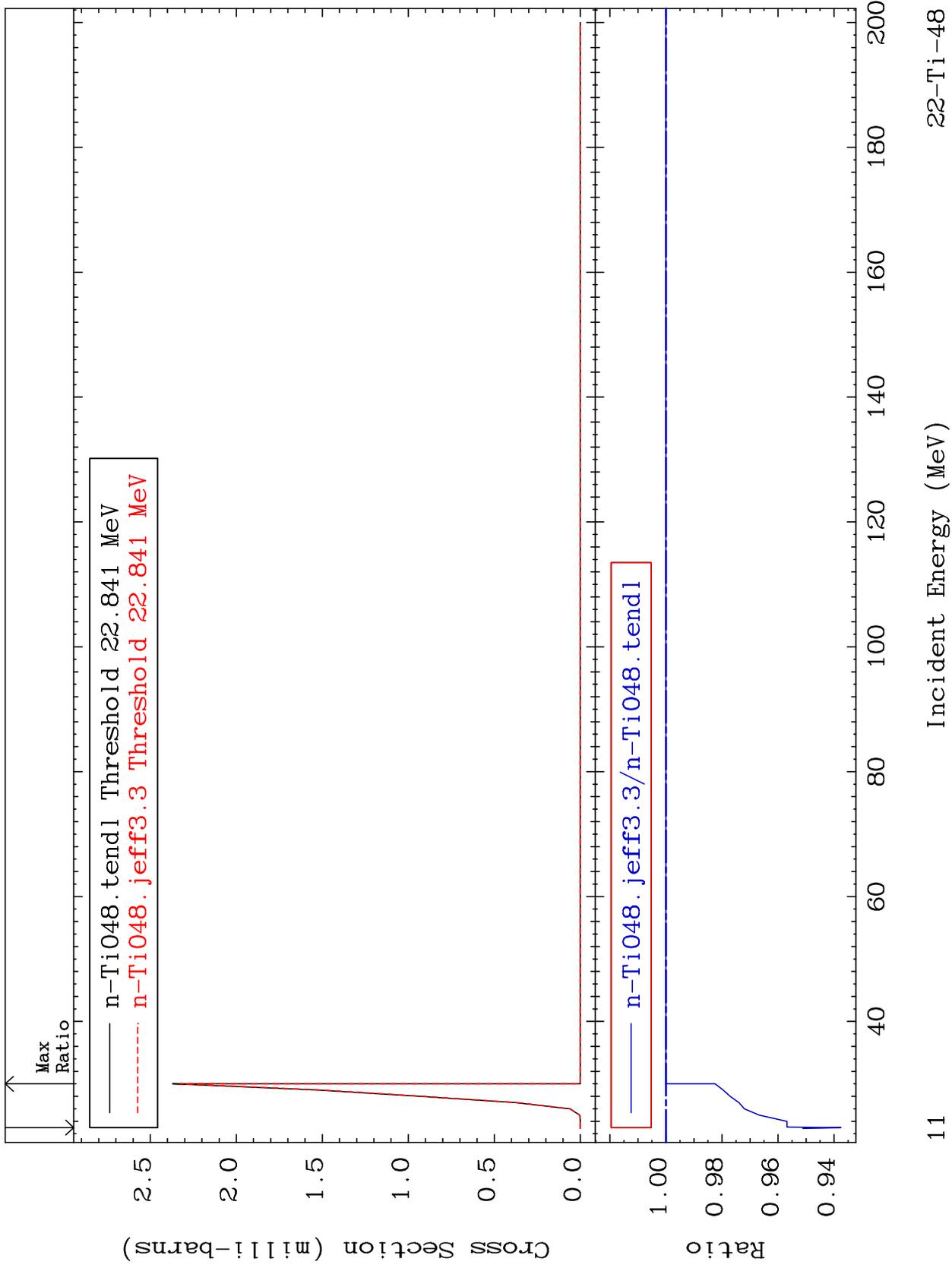
Incident Energy (MeV)

10

MAT 2231

(n,n') t  
Cross Section

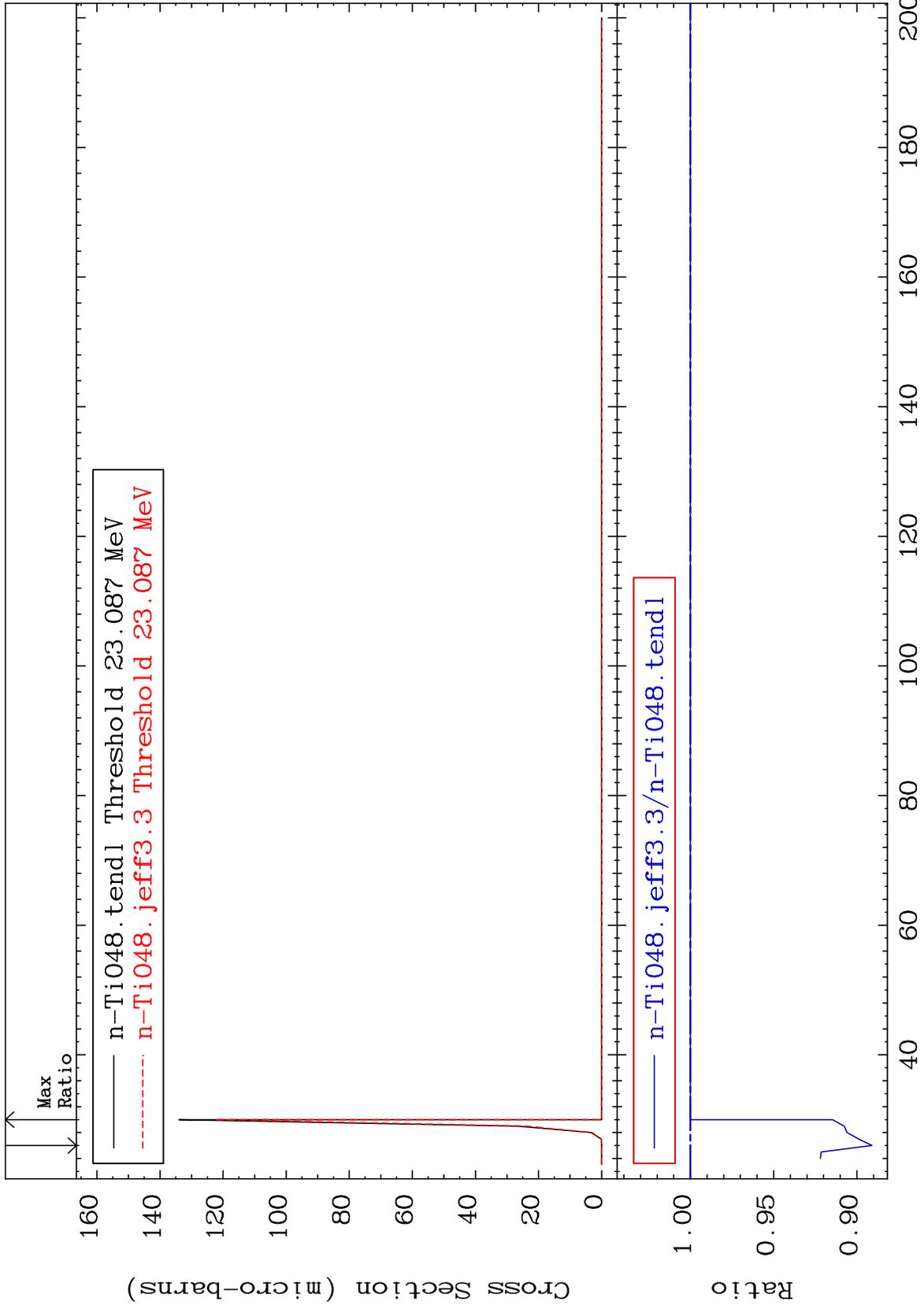
22-Ti-48  
-6.246 To 0.000 %



MAT 2231

(n, n') He-3  
Cross Section

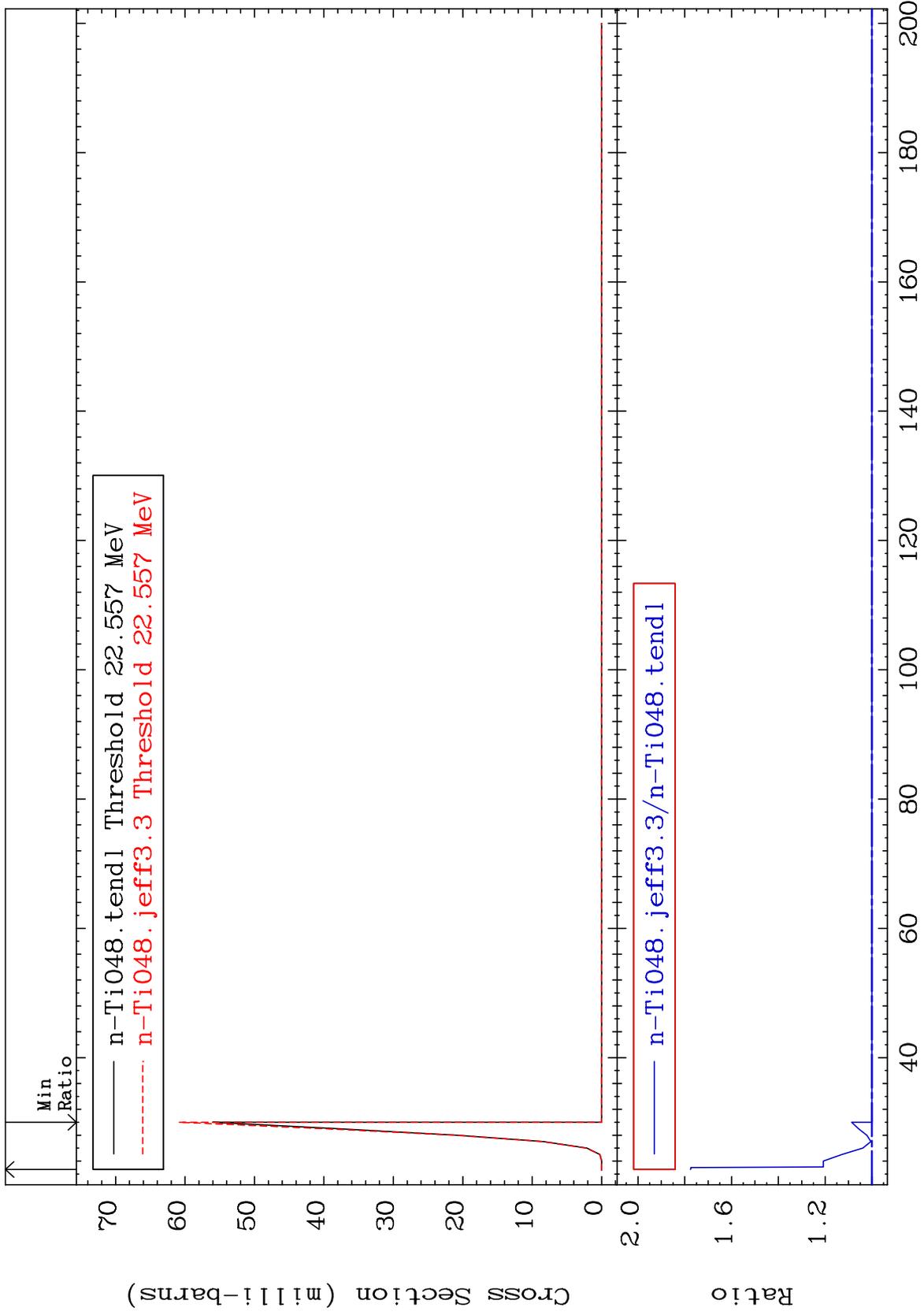
22-Ti-48  
-10.90 To 0.000 %



MAT 2231

(n,2n) p  
Cross Section

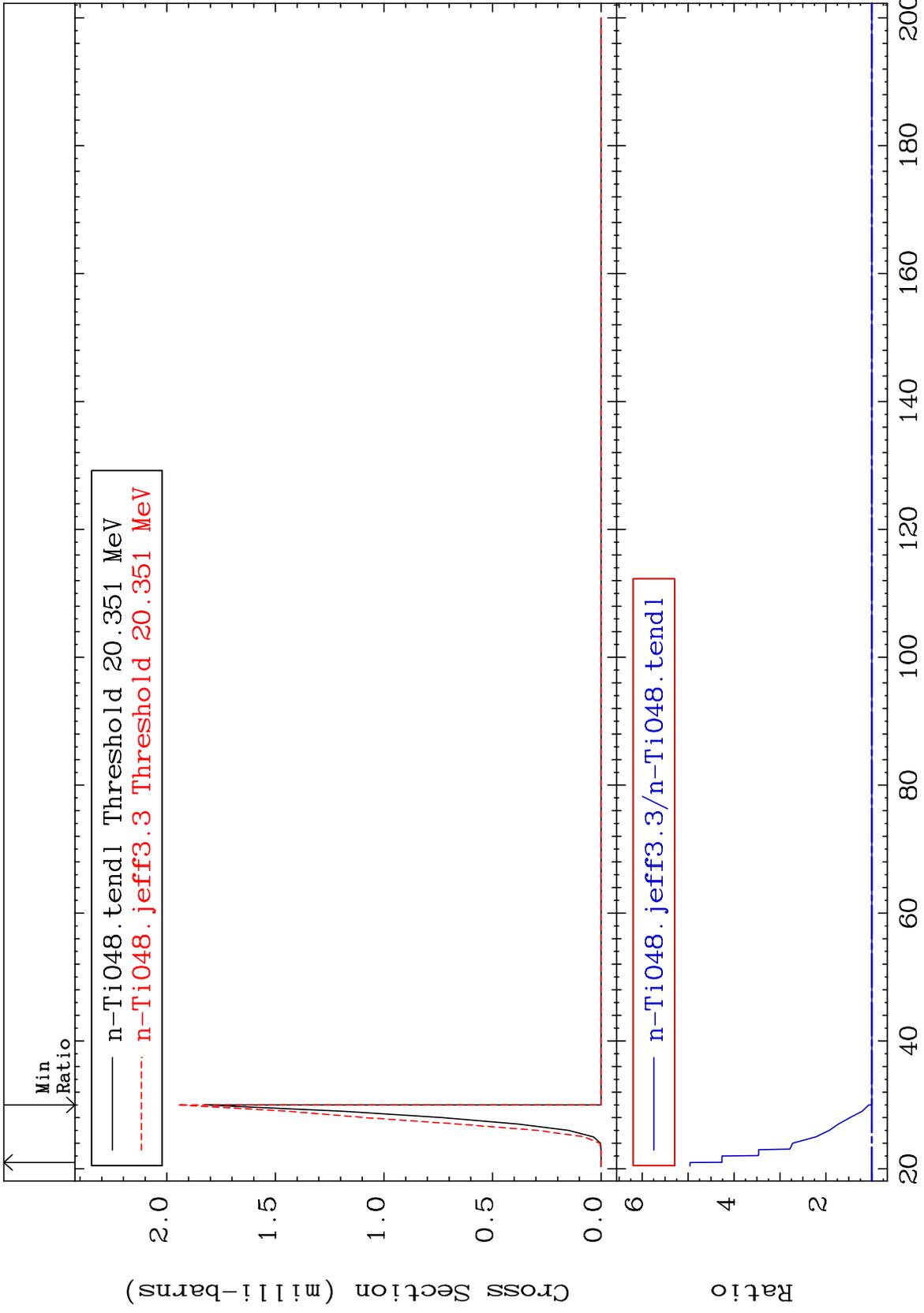
22-Ti-48  
0.000 To 77.56 %



MAT 2231

(n,2n) p  
Cross Section

22-Ti-48  
0.000 To 395.7 %



14

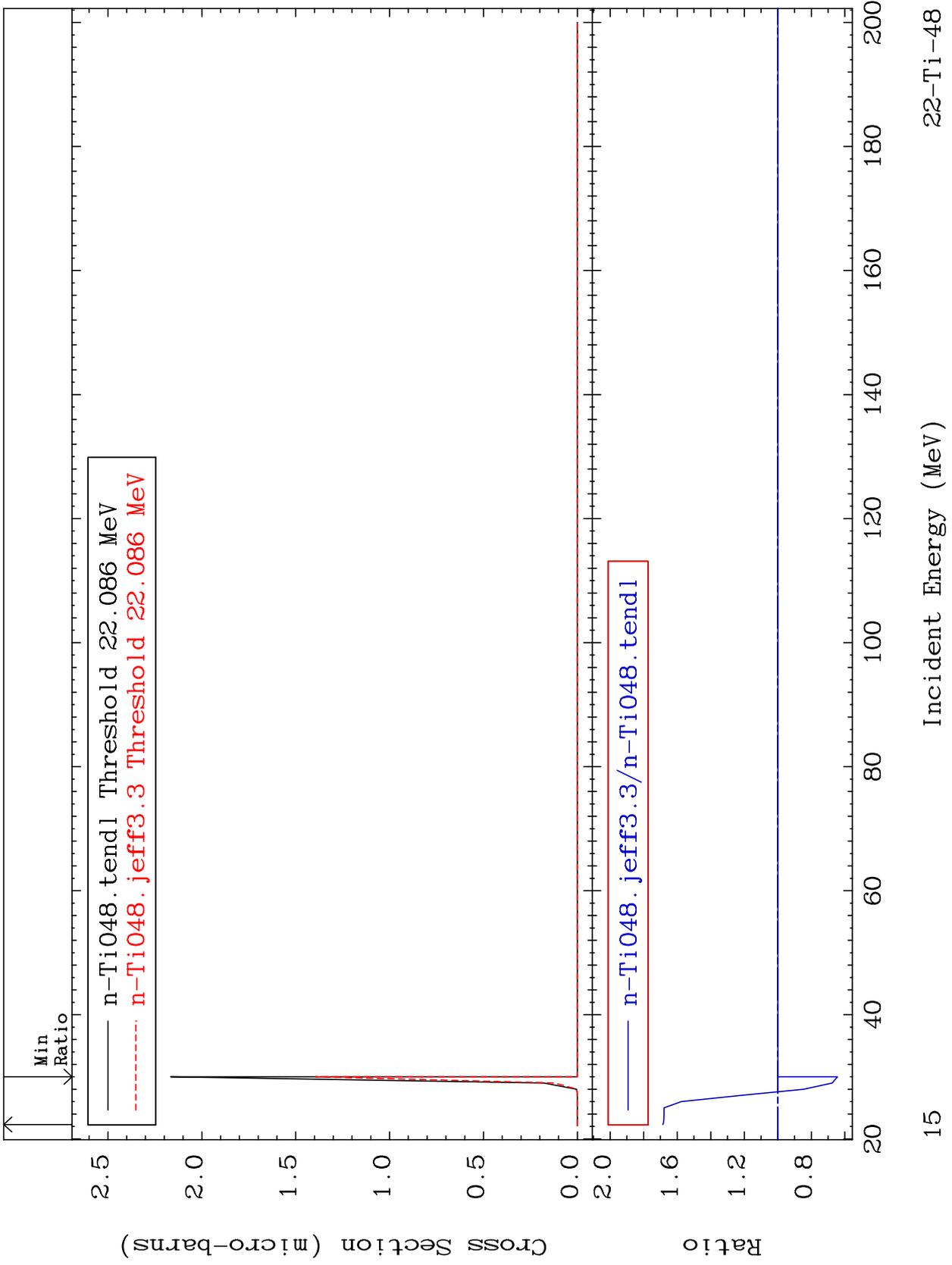
Incident Energy (MeV)

22-Ti-48

MAT 2231

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

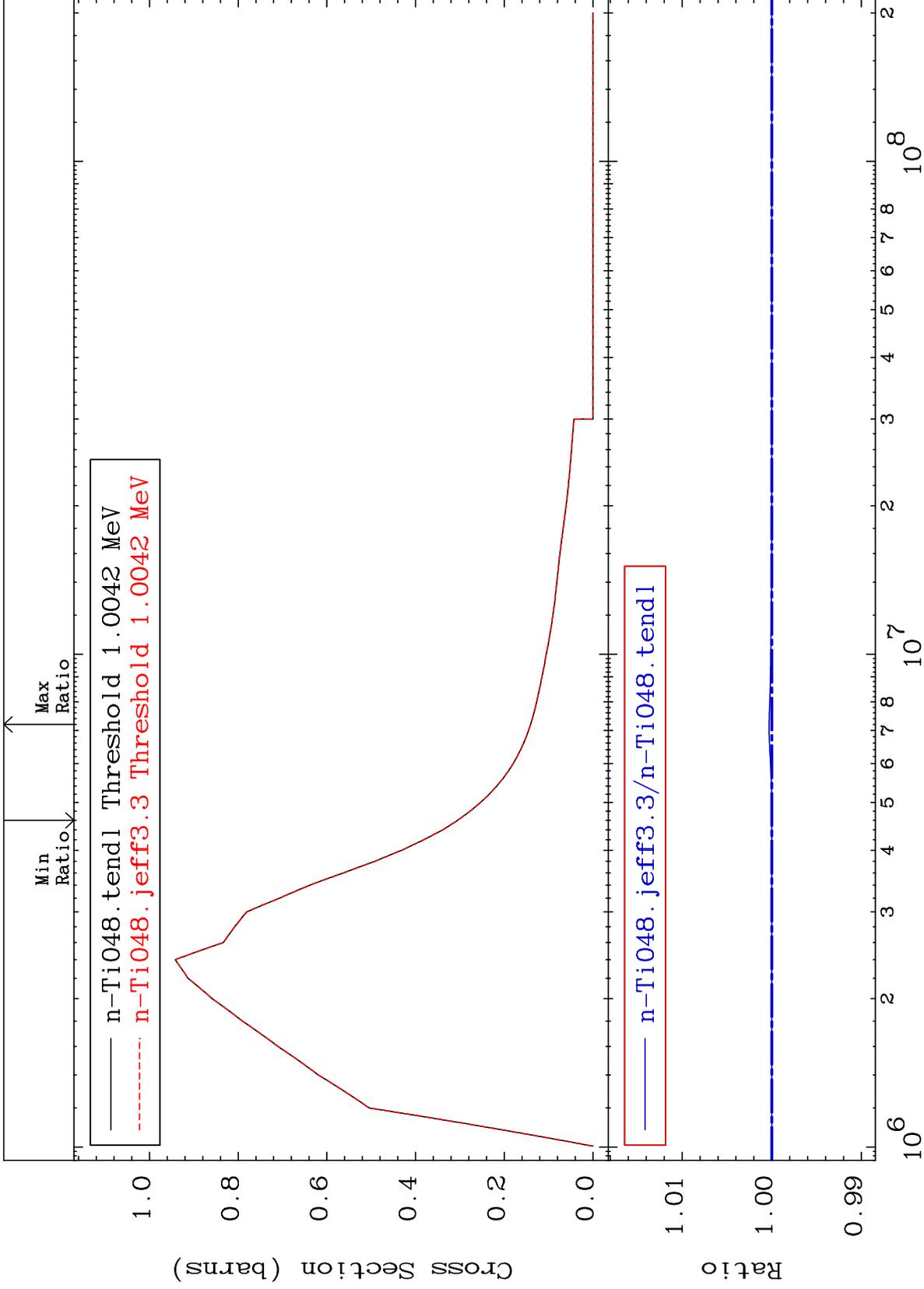
<sup>22</sup>Ti-48  
-35.59 To 68.56 %



MAT 2231

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

0.000 To 0.031 %  
22-Ti-48



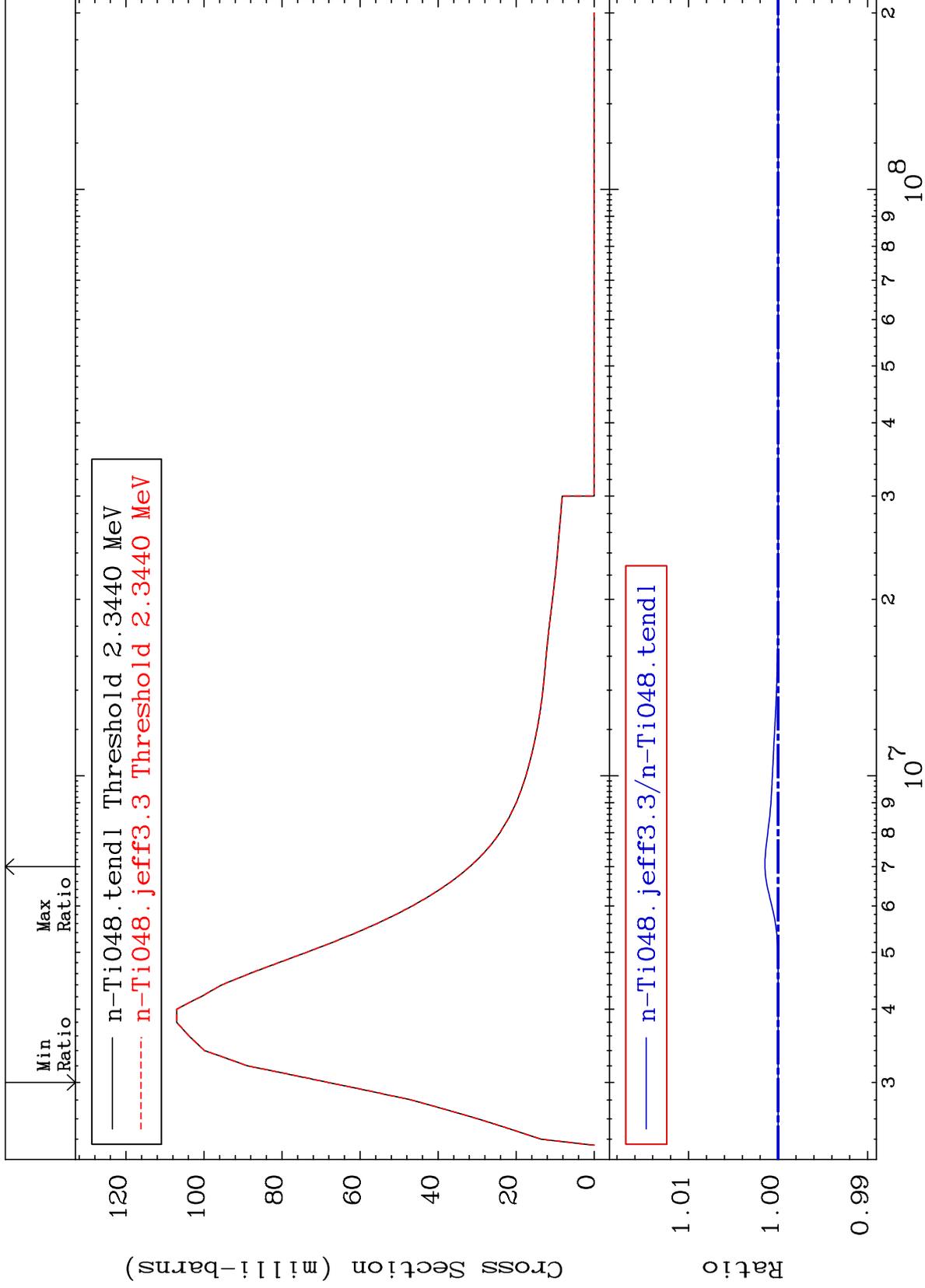
22-Ti-48

22-Ti-48

MAT 2231

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

22-Ti-48  
0.000 To 0.147 %



17

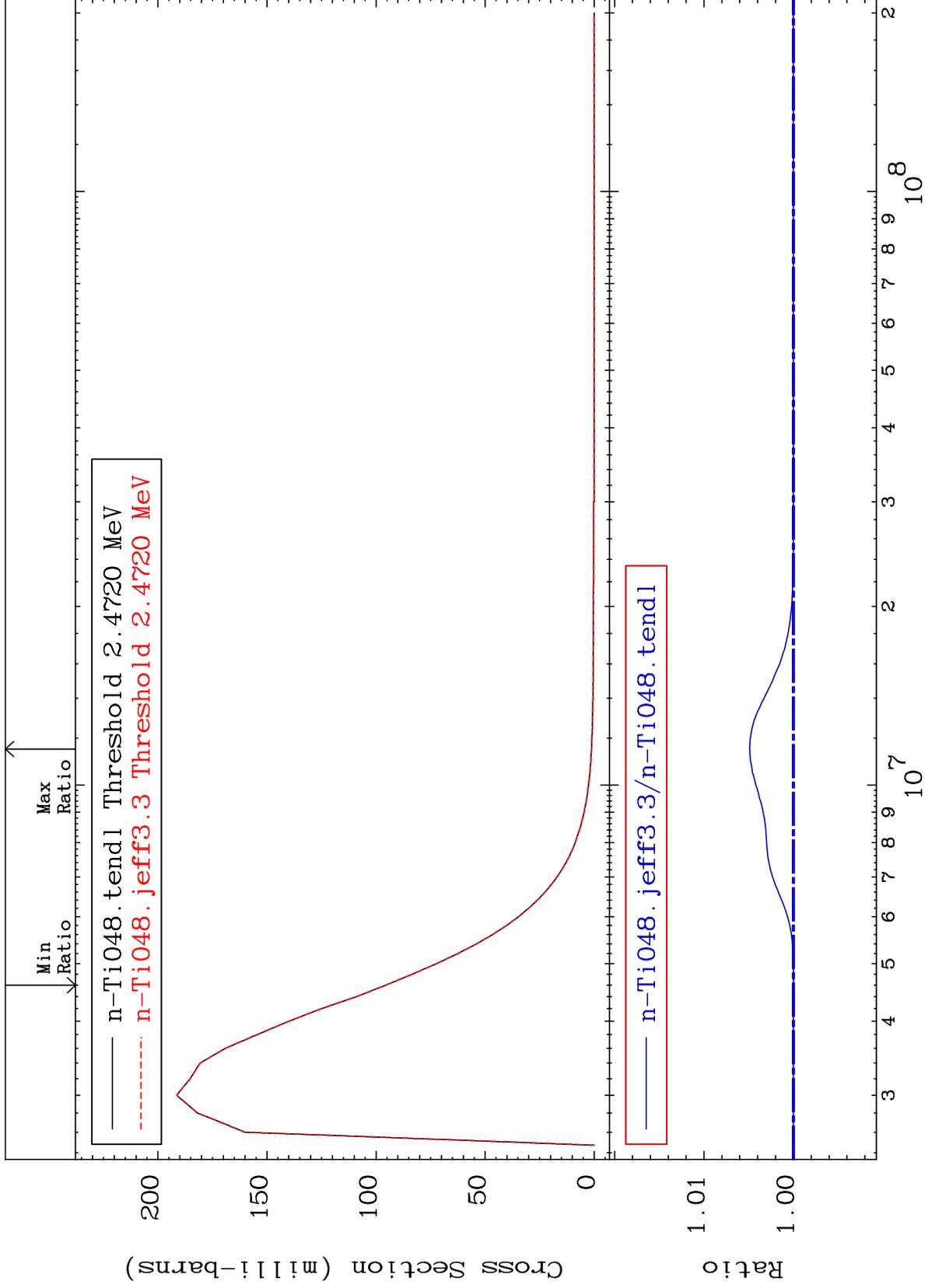
Incident Energy (eV)

22-Ti-48

MAT 2231

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

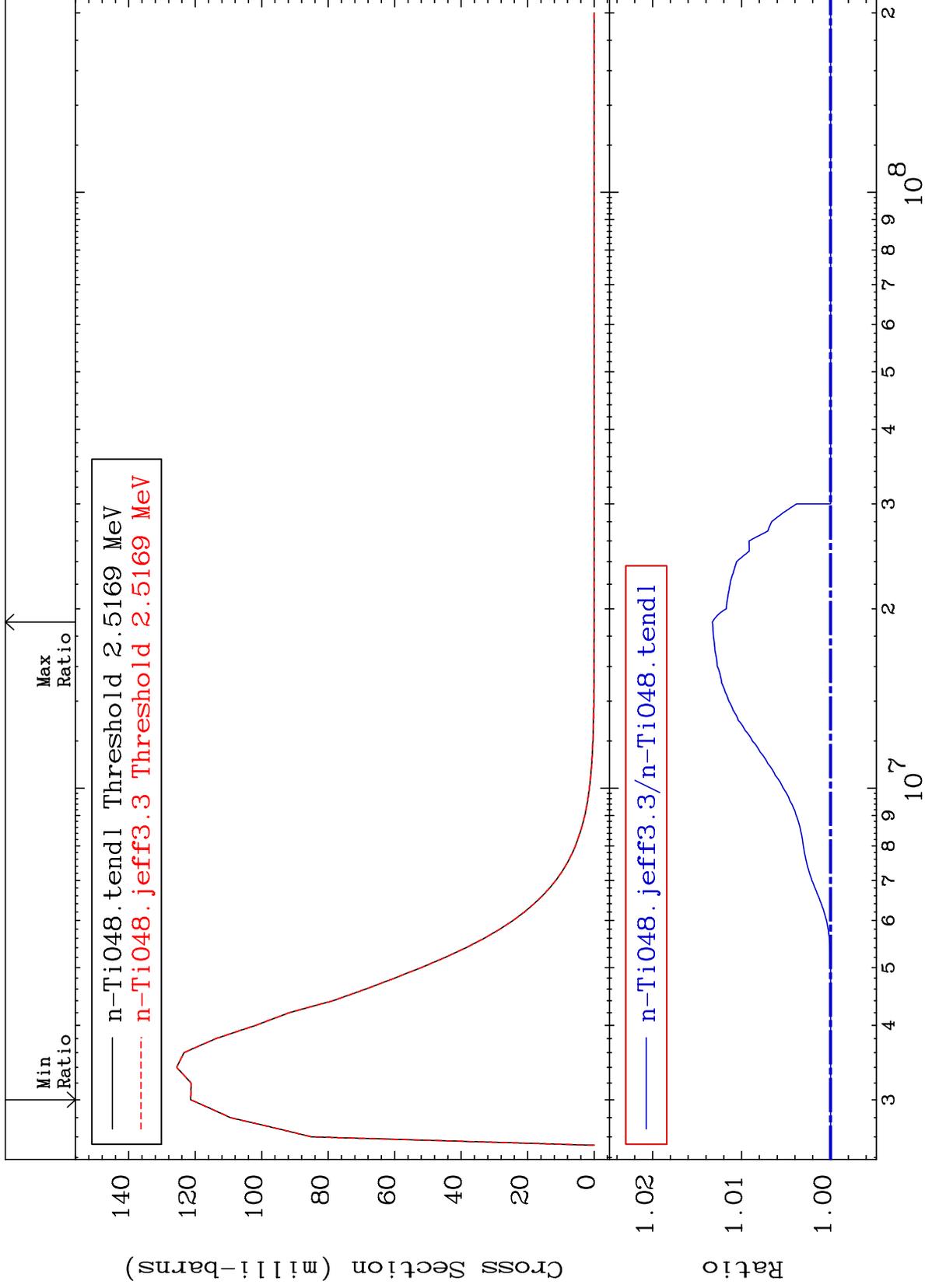
22-Ti-48  
0.000 To 0.490 %



MAT 2231

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

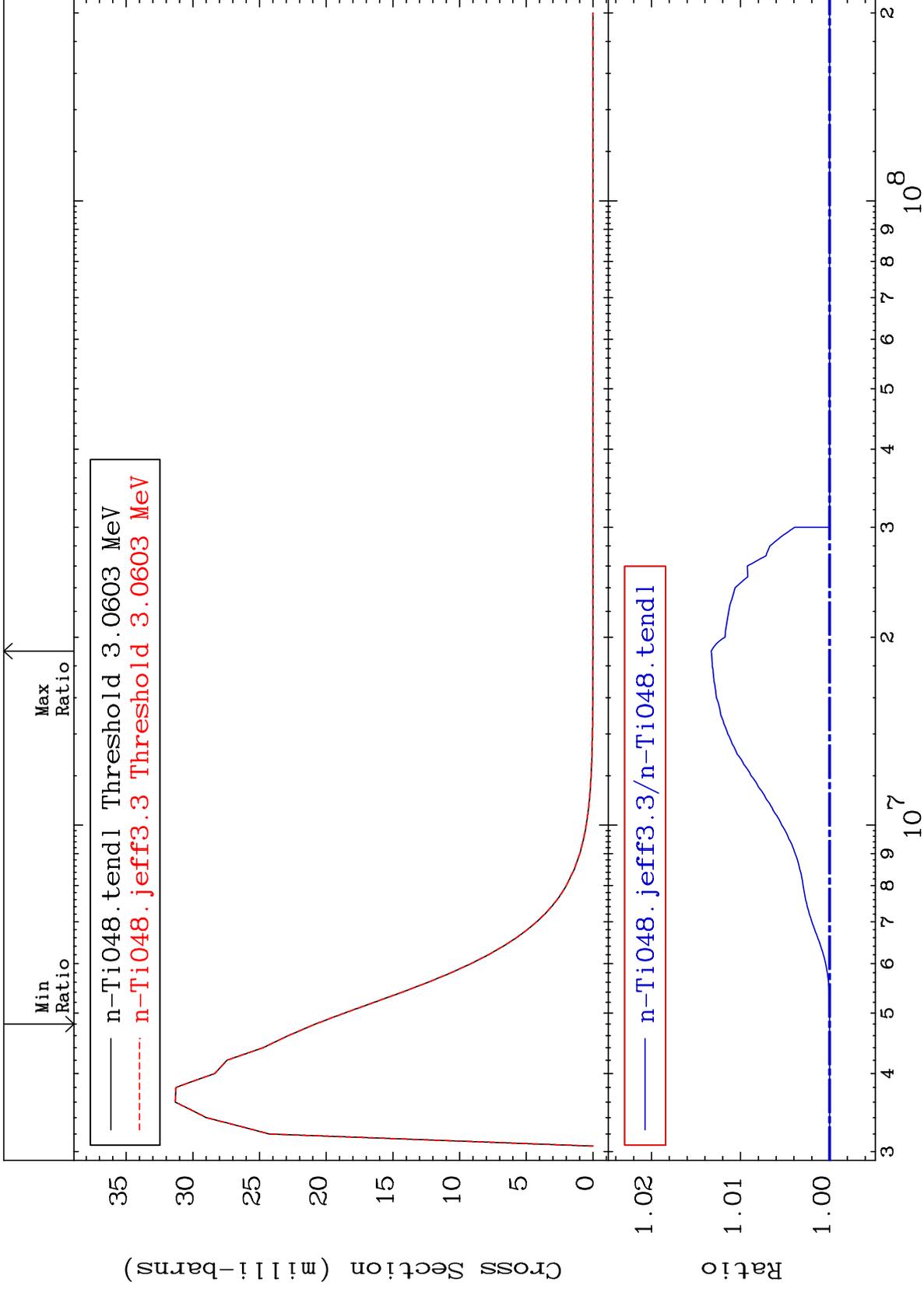
0.000 To 1.328 %  
22-Ti-48



MAT 2231

MT= 55 (n,n') Level  
Cross Section

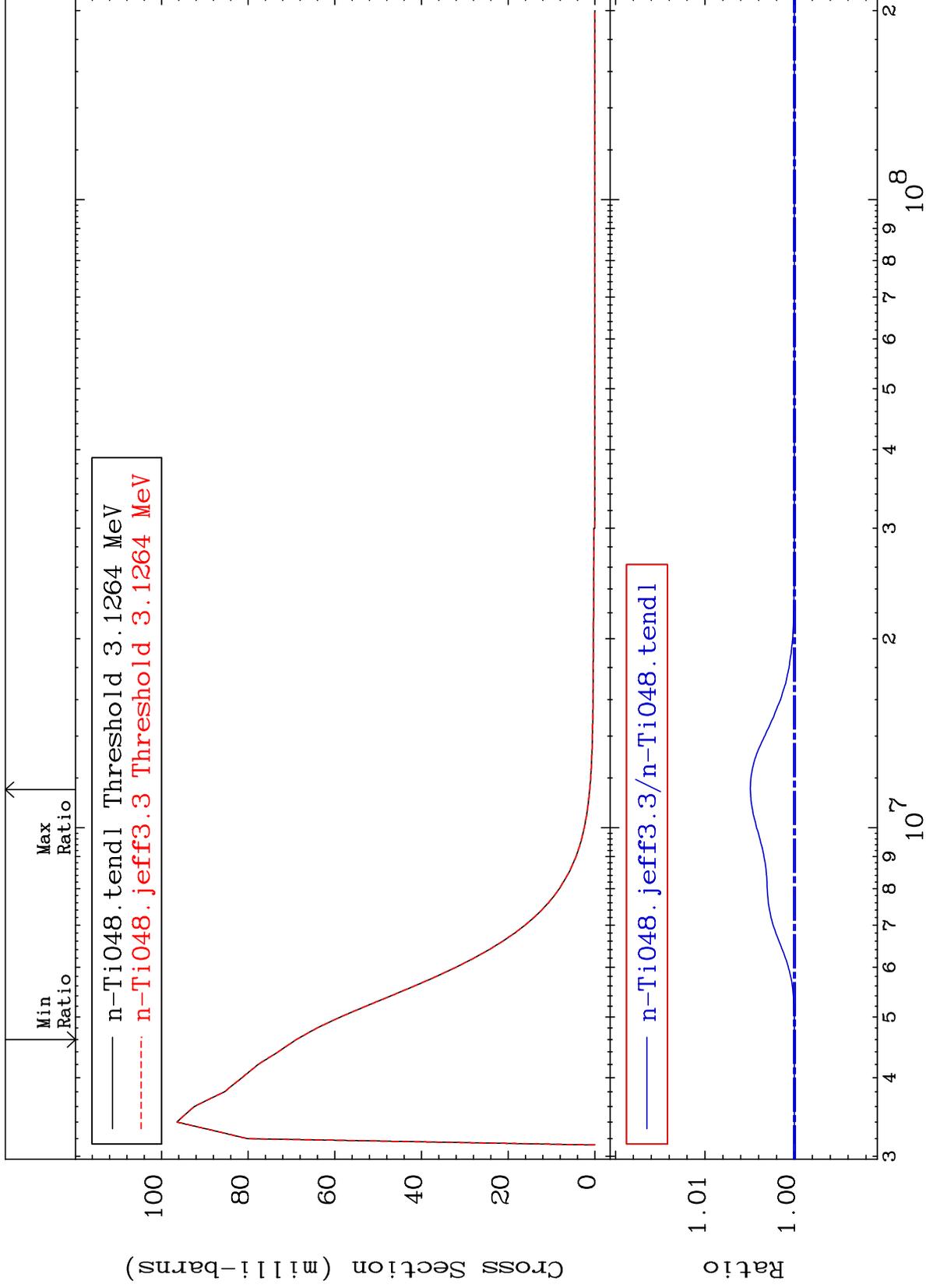
22-Ti-48  
0.000 To 1.329 %



MAT 2231

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

22-Ti-48  
0.000 To 0.494 %

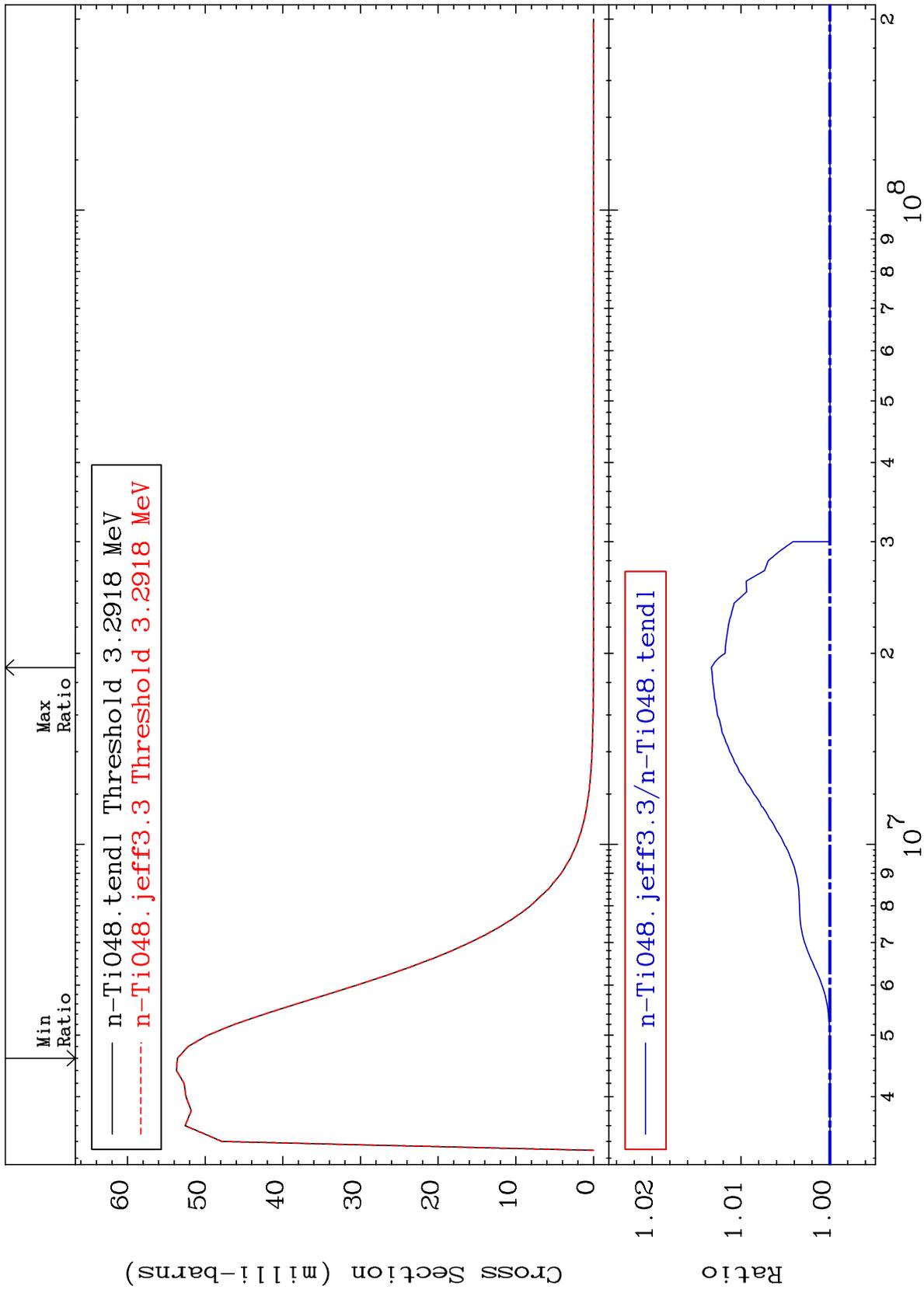


21

Incident Energy (eV)

22-Ti-48

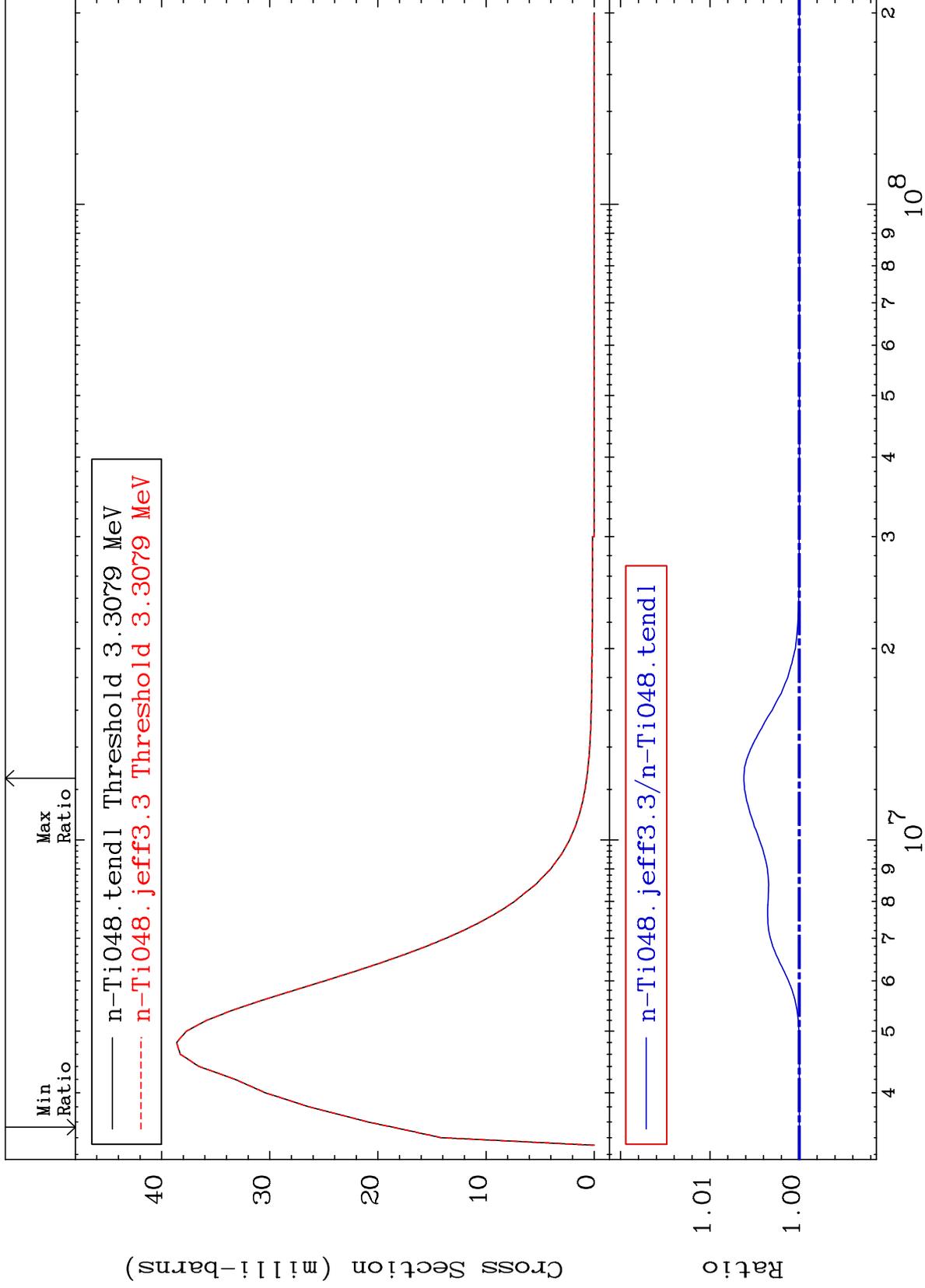
MAT 2231 MT= 57 (n,n') Level Cross Section 22-Ti-48 To 1.332 %



MAT 2231

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

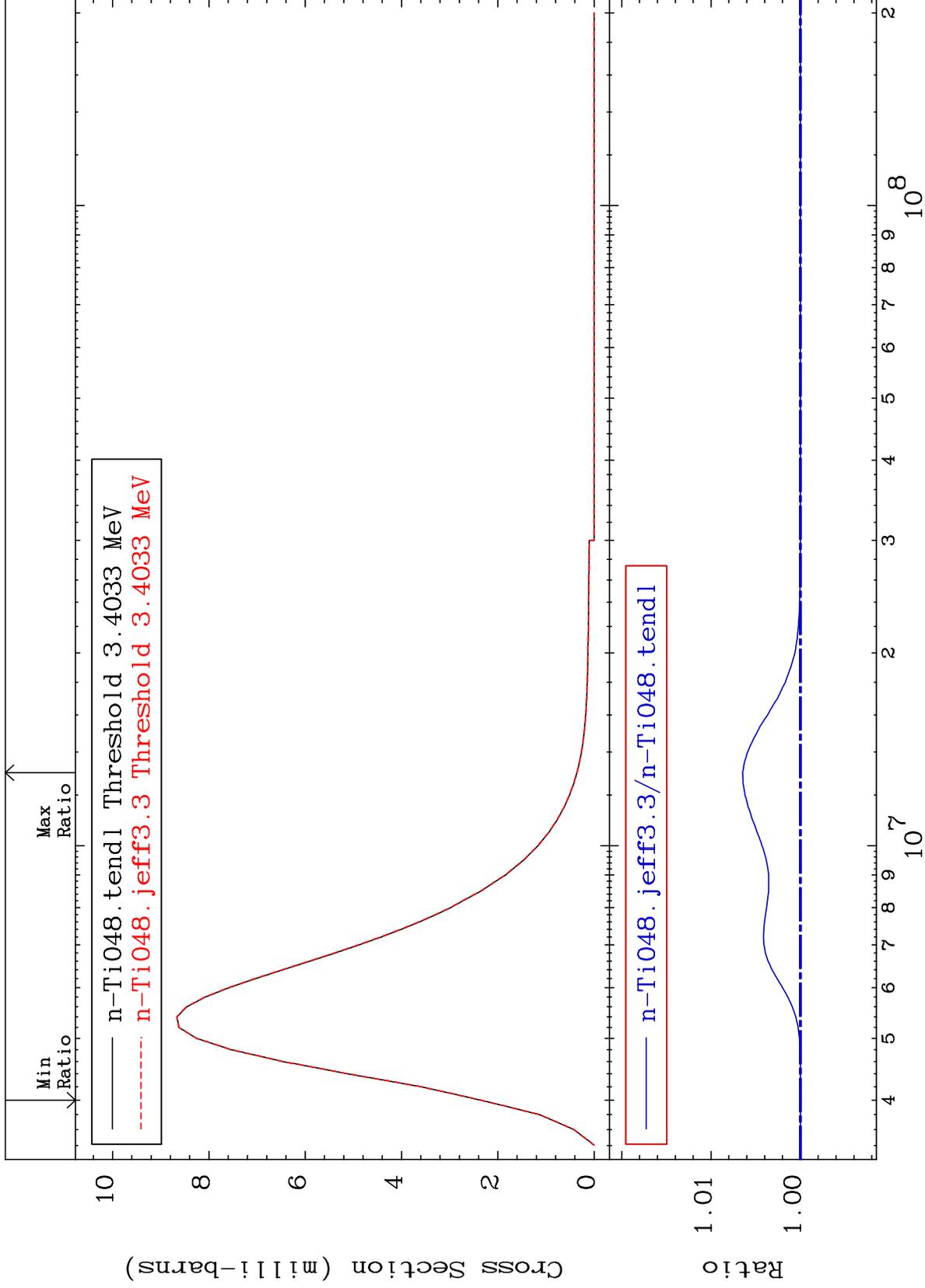
22-Ti-48  
0.000 To 0.621 %



MAT 2231

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

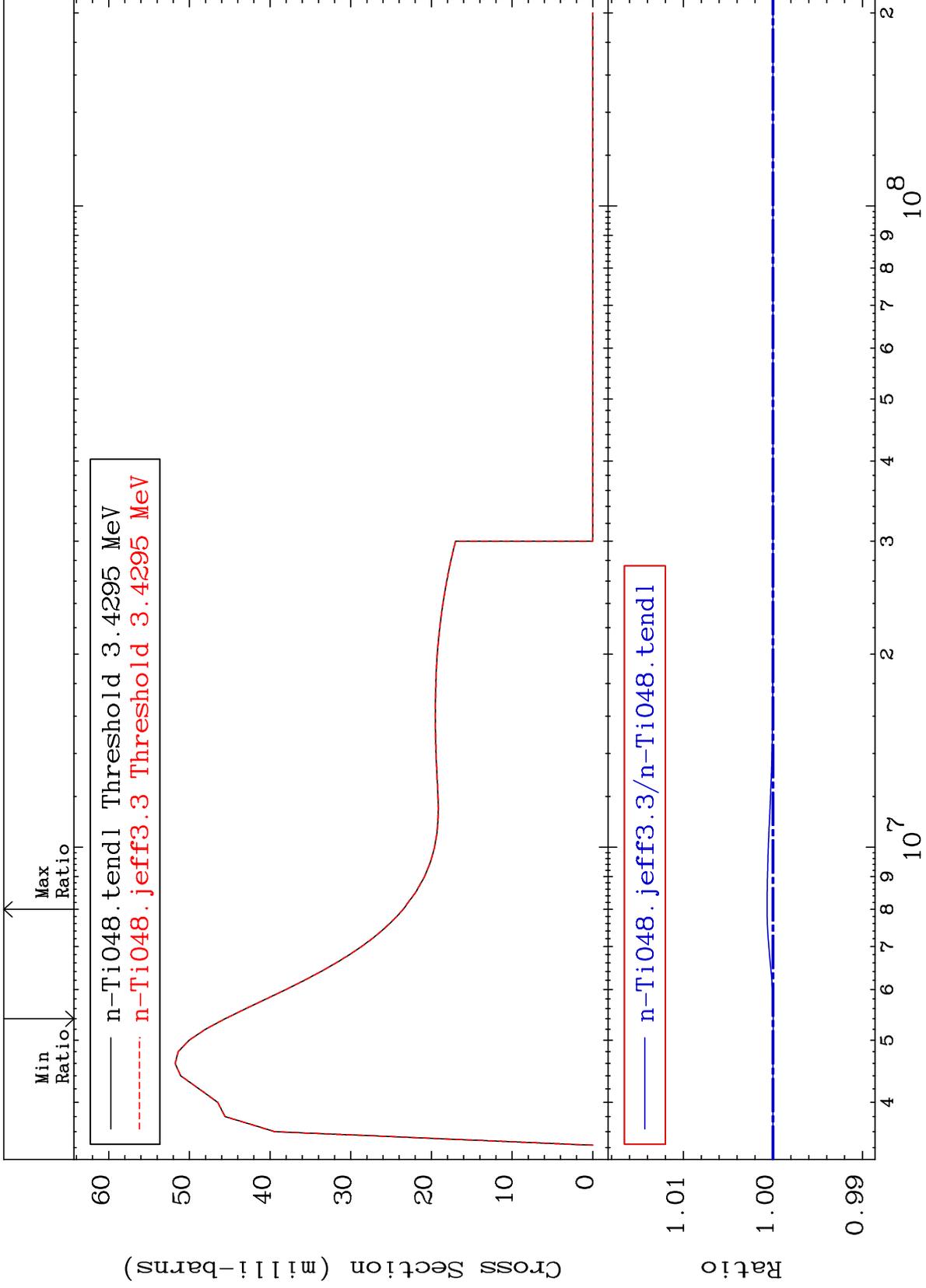
22-Ti-48  
0.000 To 0.646 %



MAT 2231

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

22-Ti-48  
-0.003 To 0.066 %



25

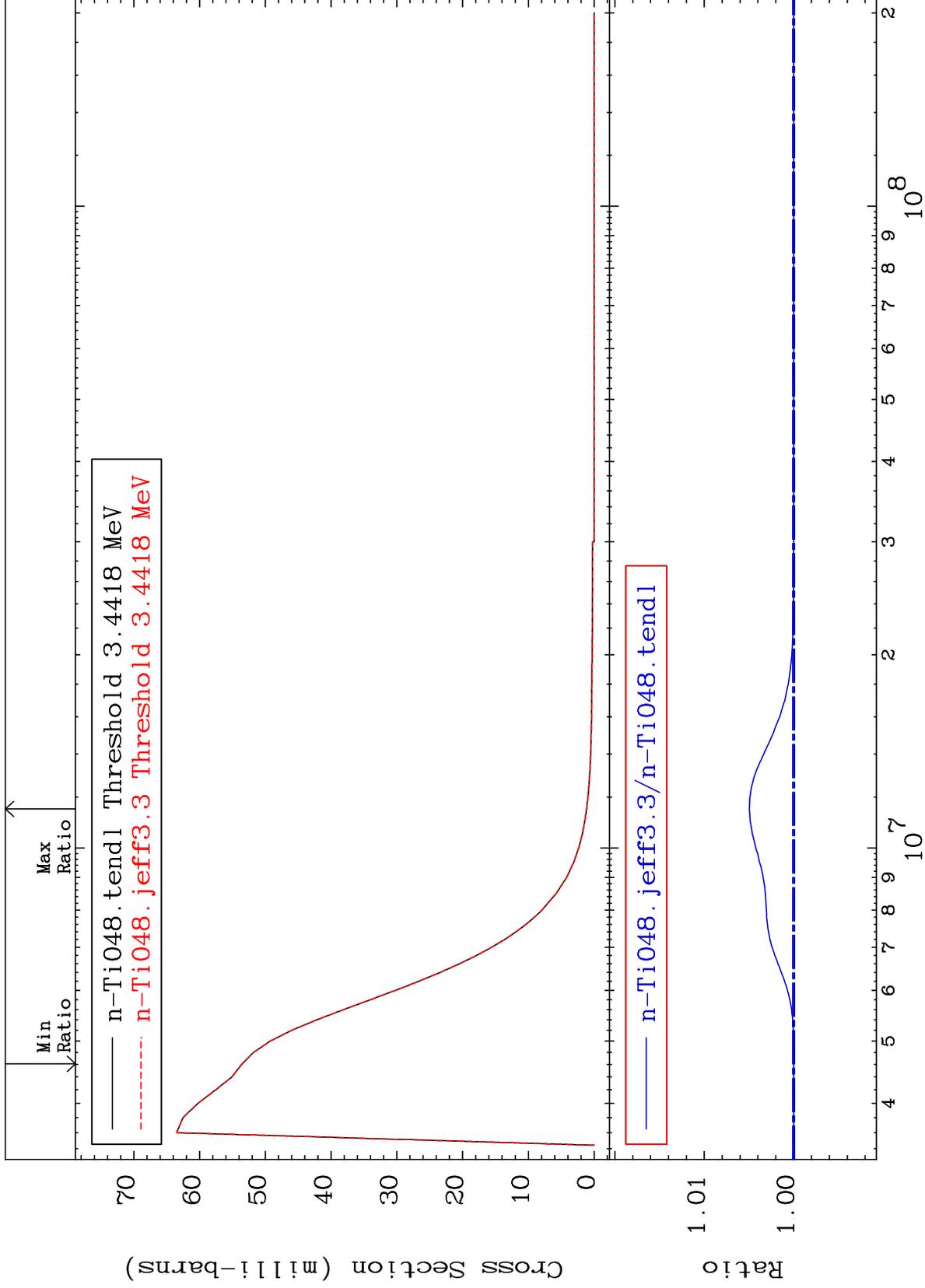
Incident Energy (eV)

22-Ti-48

MAT 2231

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

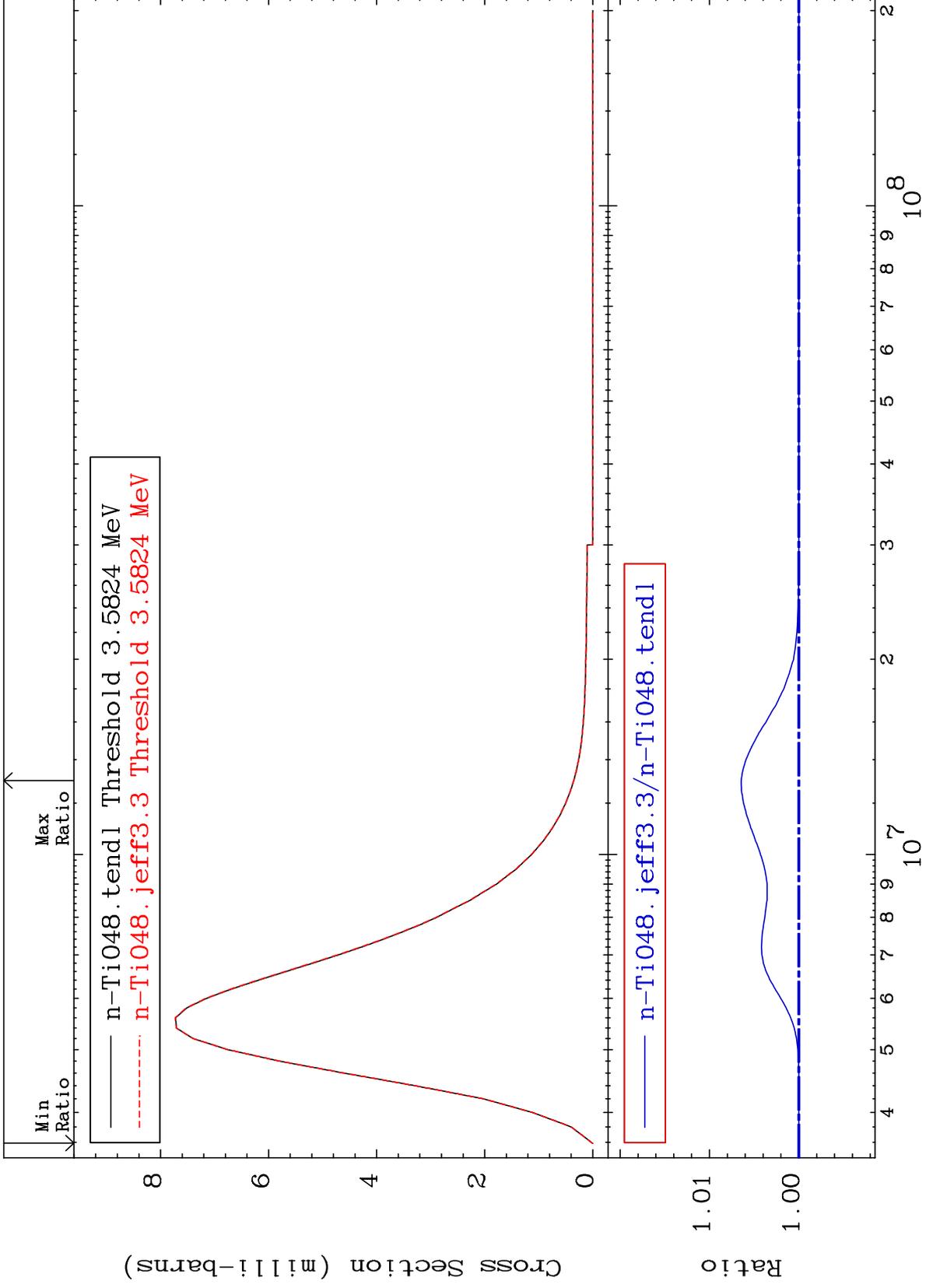
22-Ti-48  
0.000 To 0.495 %



MAT 2231

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

22-Ti-48  
-0.004 To 0.646 %



27

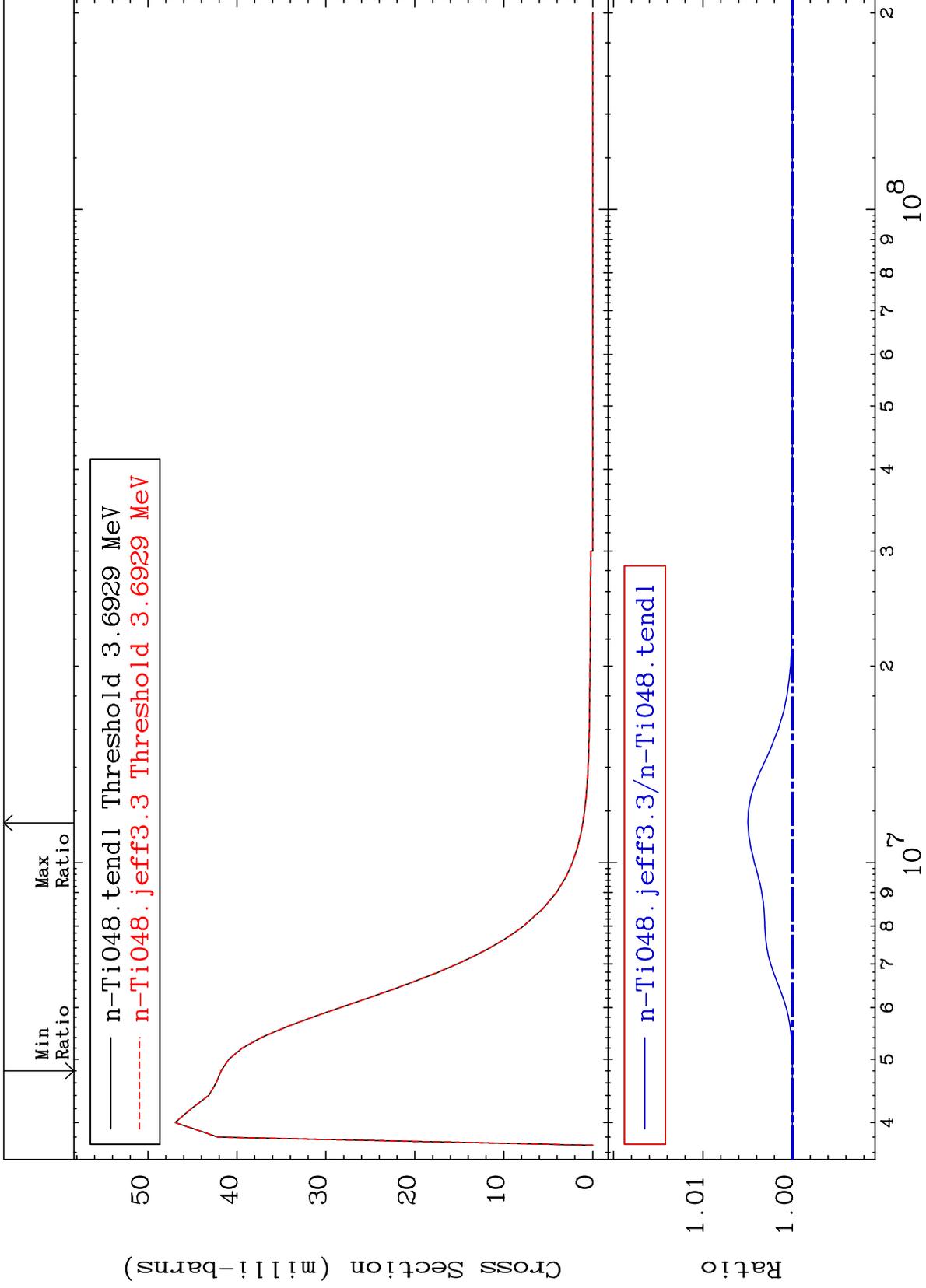
Incident Energy (eV)

22-Ti-48

MAT 2231

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

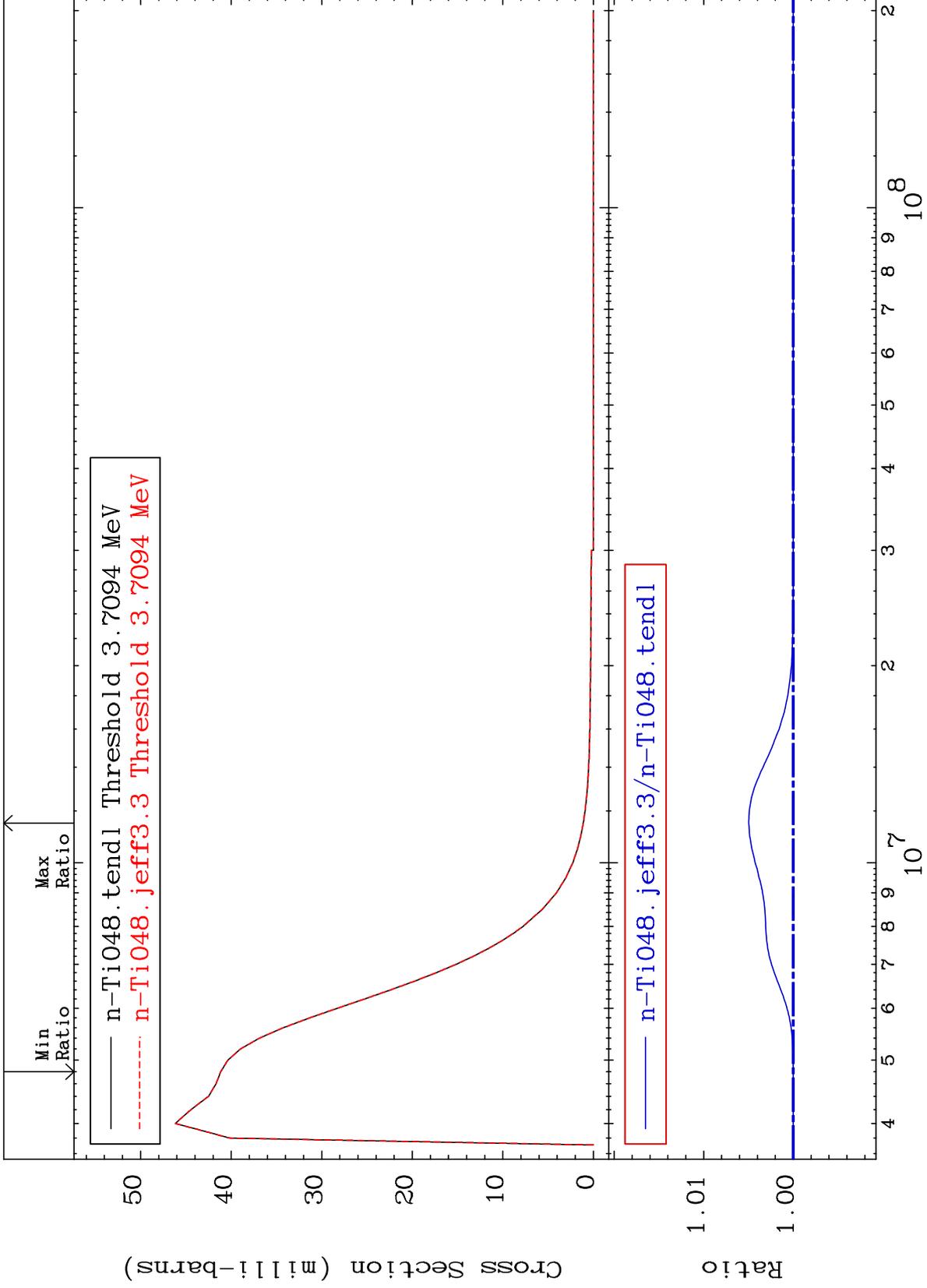
22-Ti-48  
0.000 To 0.498 %



MAT 2231

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

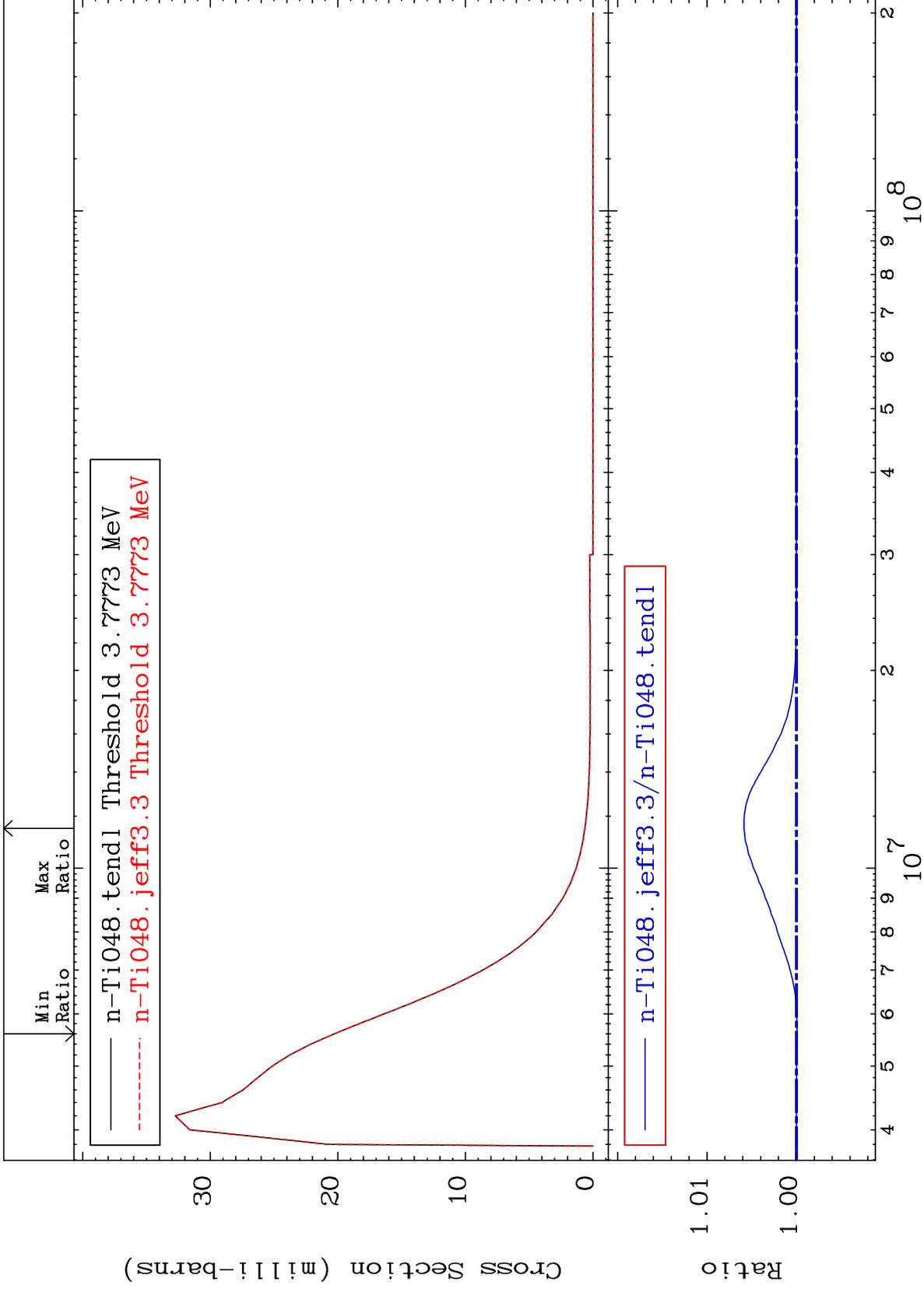
22-Ti-48  
0.000 To 0.498 %



MAT 2231

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

22-Ti-48  
-0.006 To 0.587 %



30

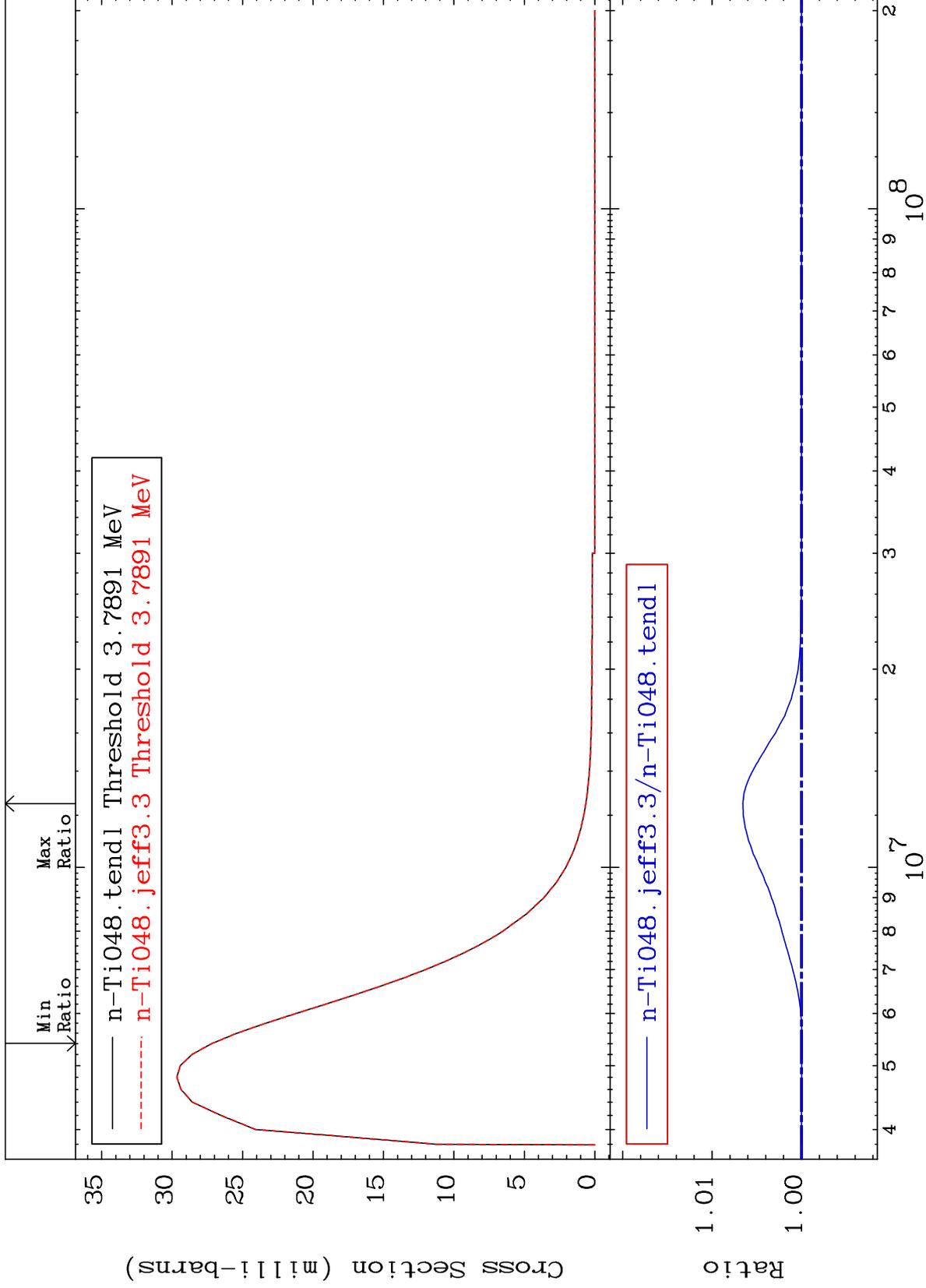
Incident Energy (eV)

22-Ti-48

MAT 2231

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

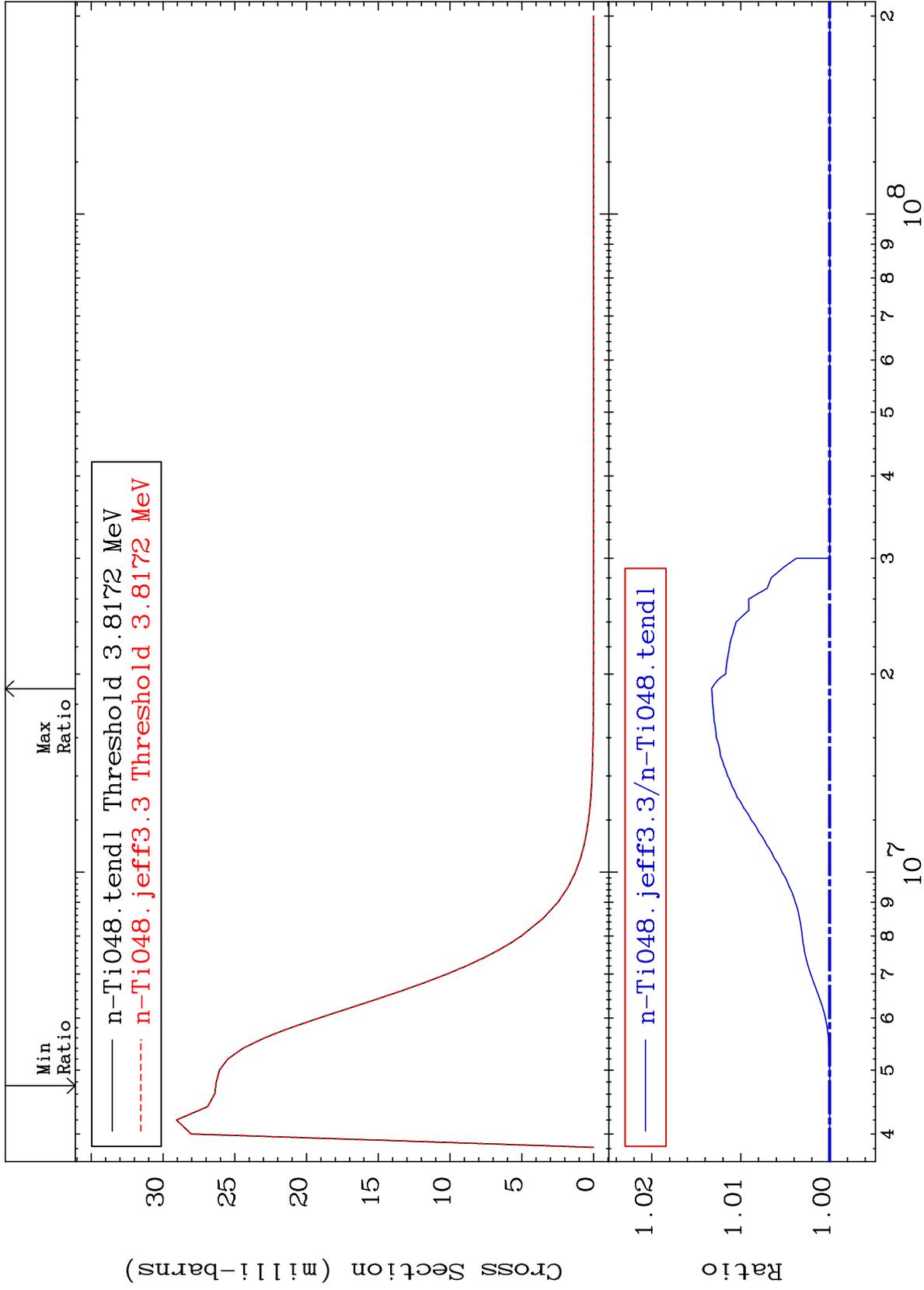
22-Ti-48  
-0.004 To 0.655 %



31

22-Ti-48

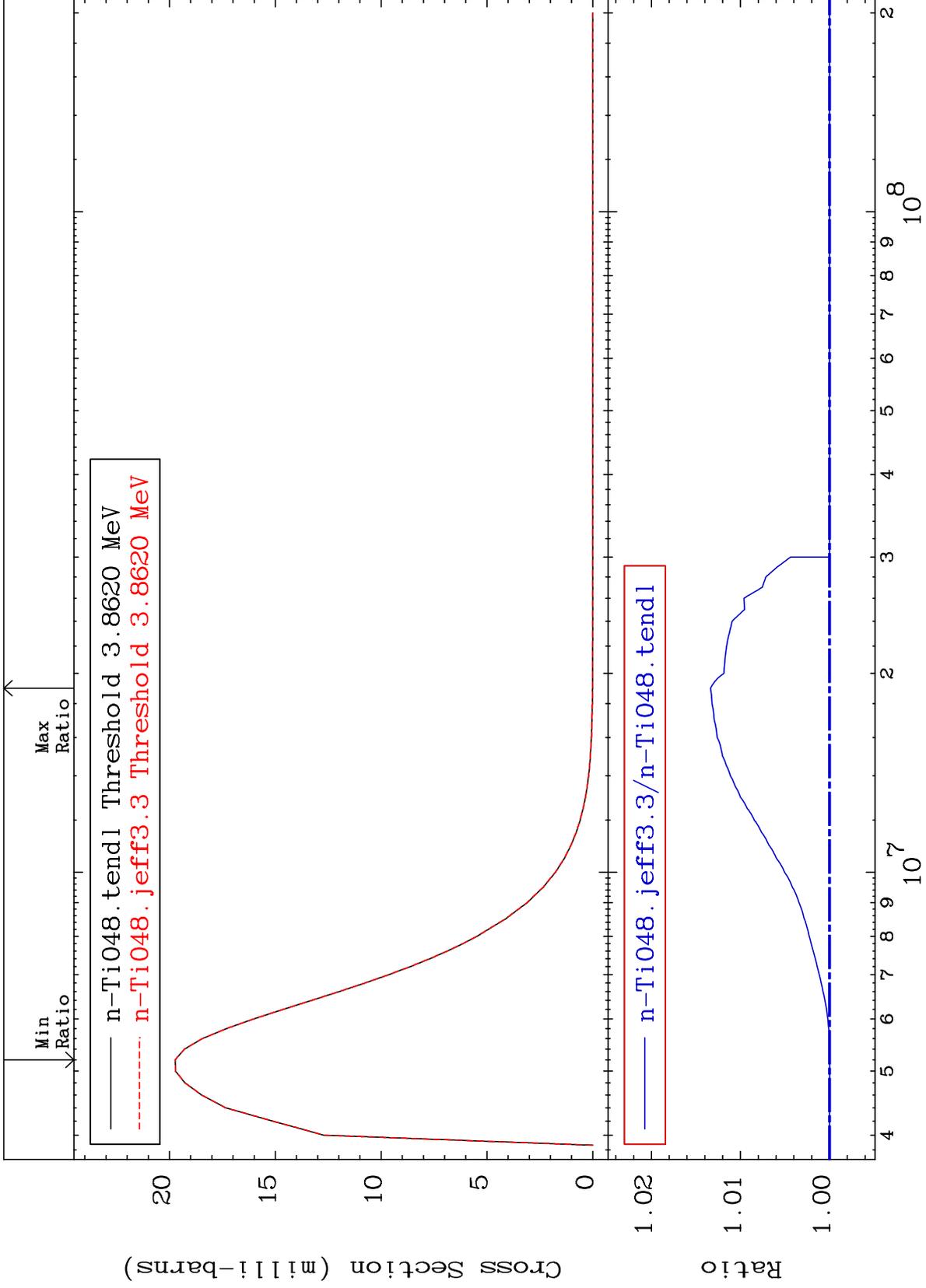
MAT 2231 MT= 67 (n,n') Level Cross Section 22-Ti-48 To 1.327 %



MAT 2231

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

<sup>22</sup>Ti-48  
-0.003 To 1.336 %



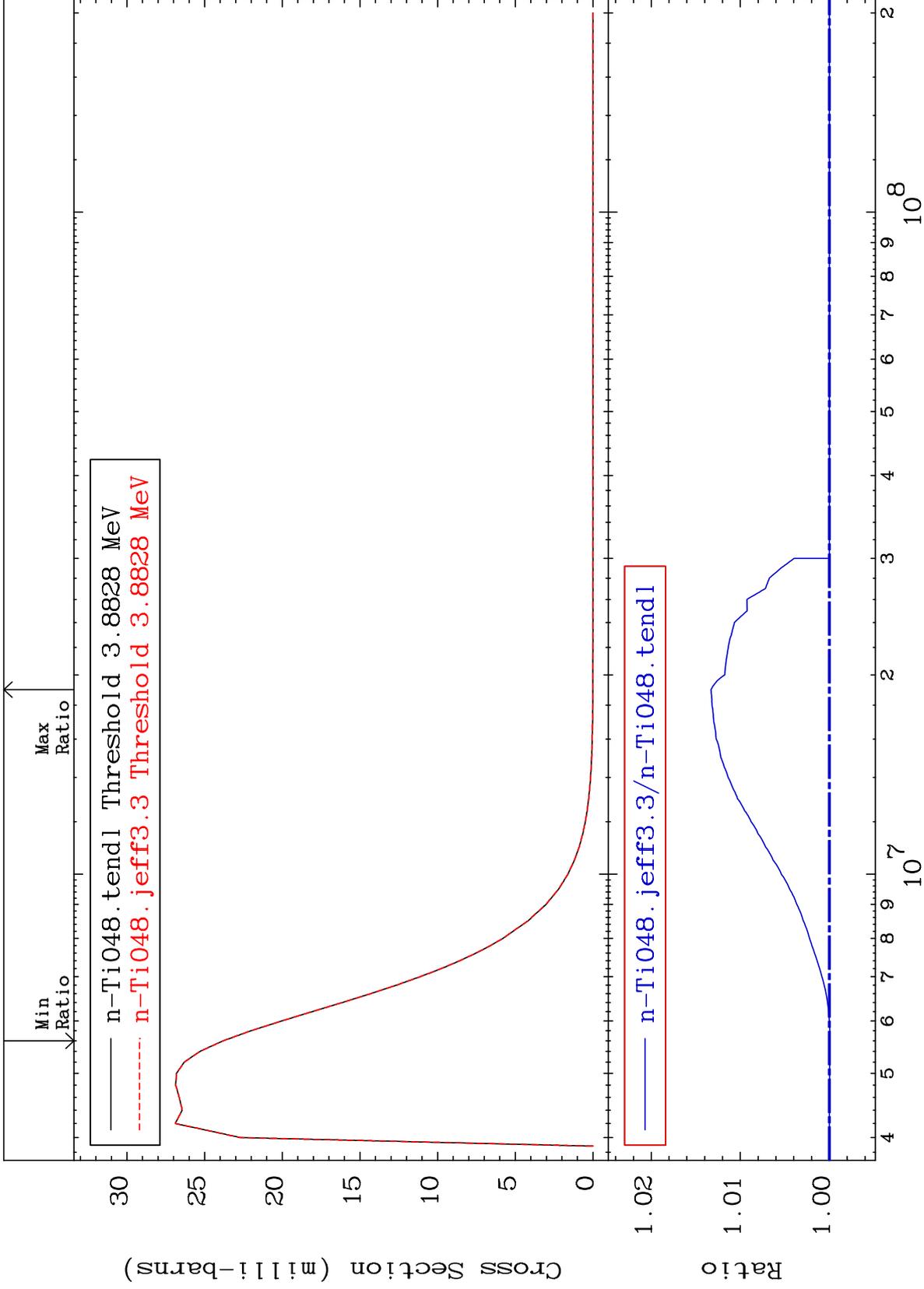
MAT 2231

MT= 69 (n,n') Level

<sup>22</sup>Ti-48

-0.005 To 1.329 %

Cross Section

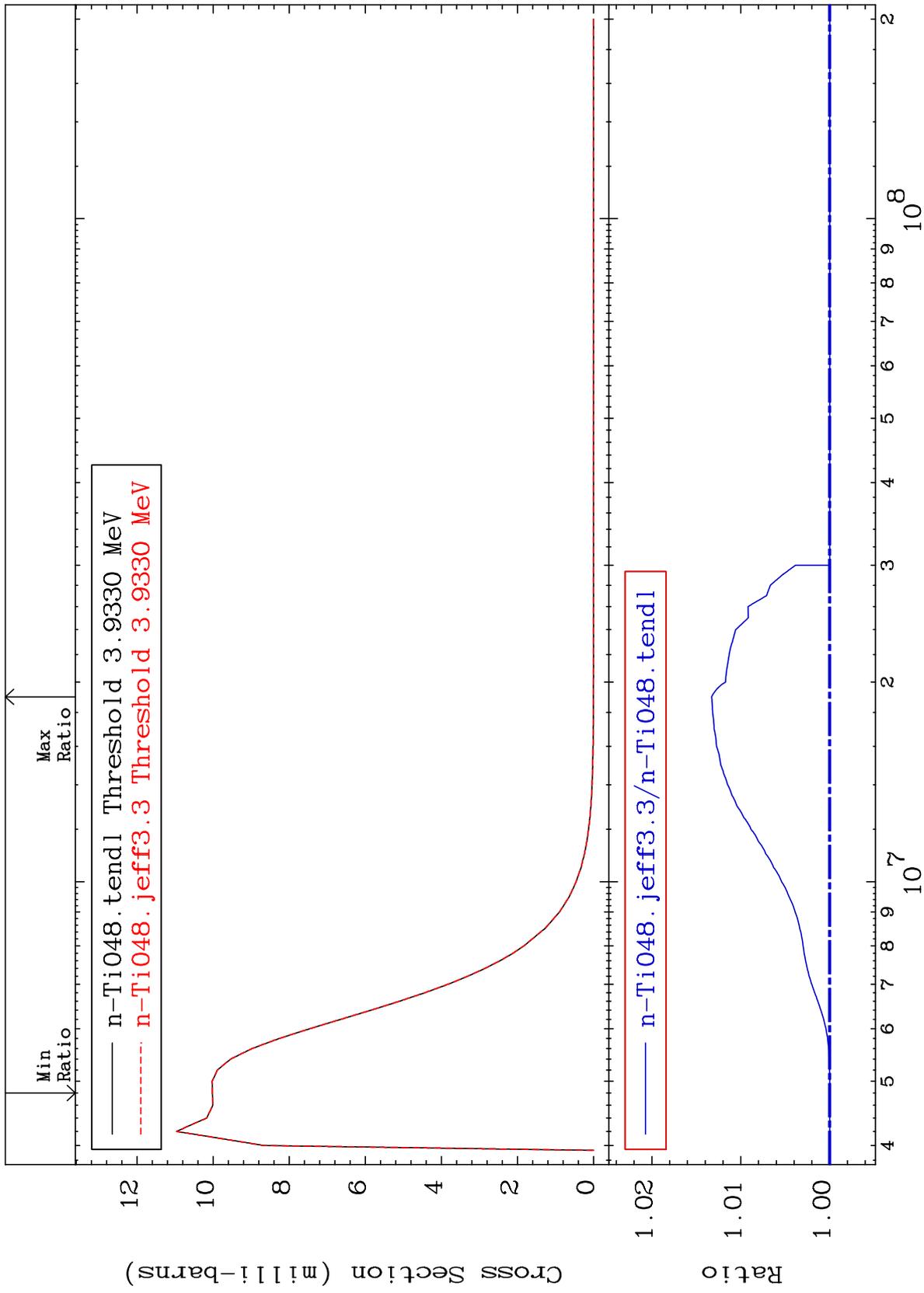


34

Incident Energy (eV)

<sup>22</sup>Ti-48

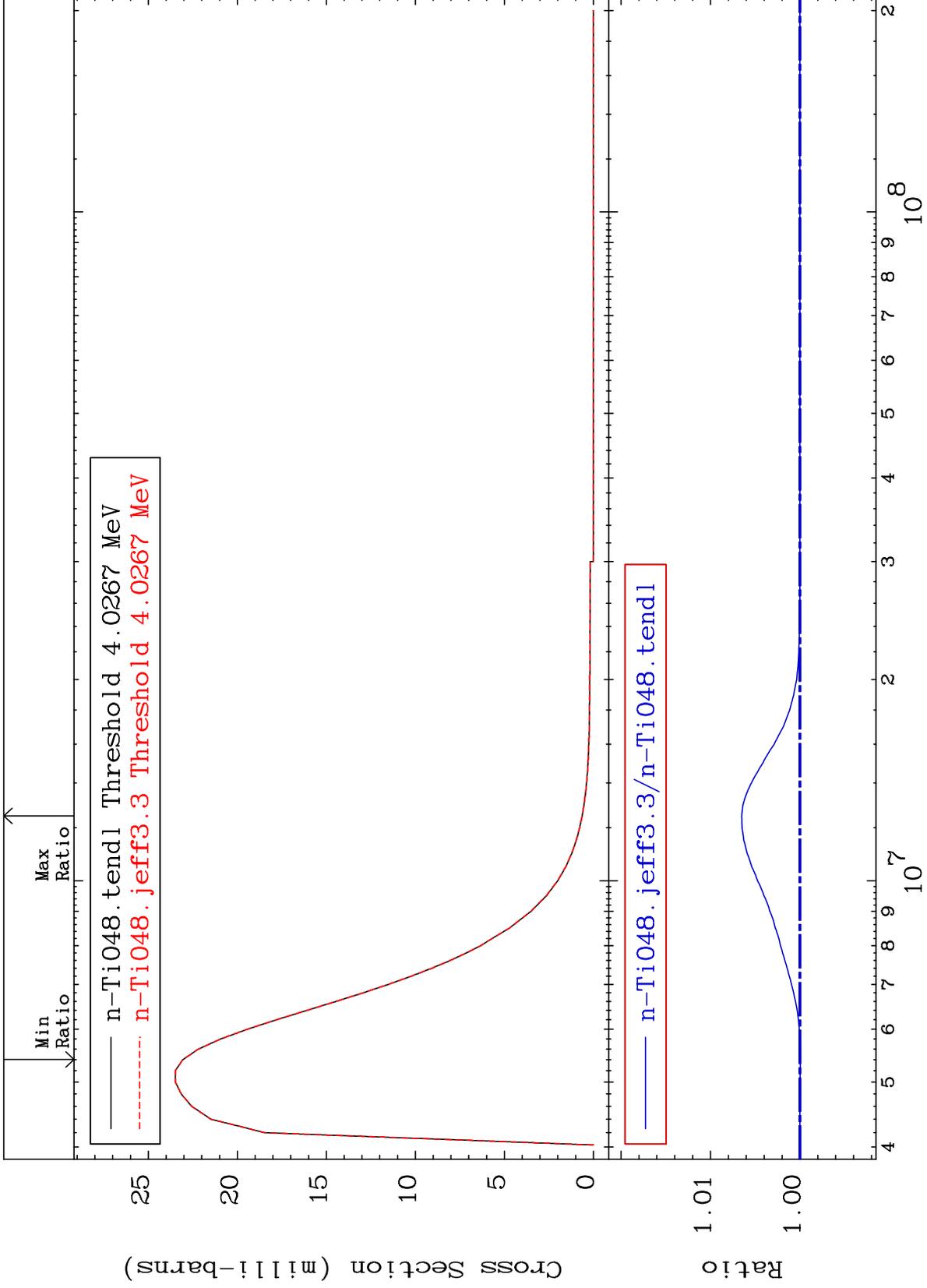
MAT 2231 MT= 70 (n,n') Level Cross Section 22-Ti-48 To 1.328 %



MAT 2231

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

22-Ti-48  
-0.004 To 0.652 %



36

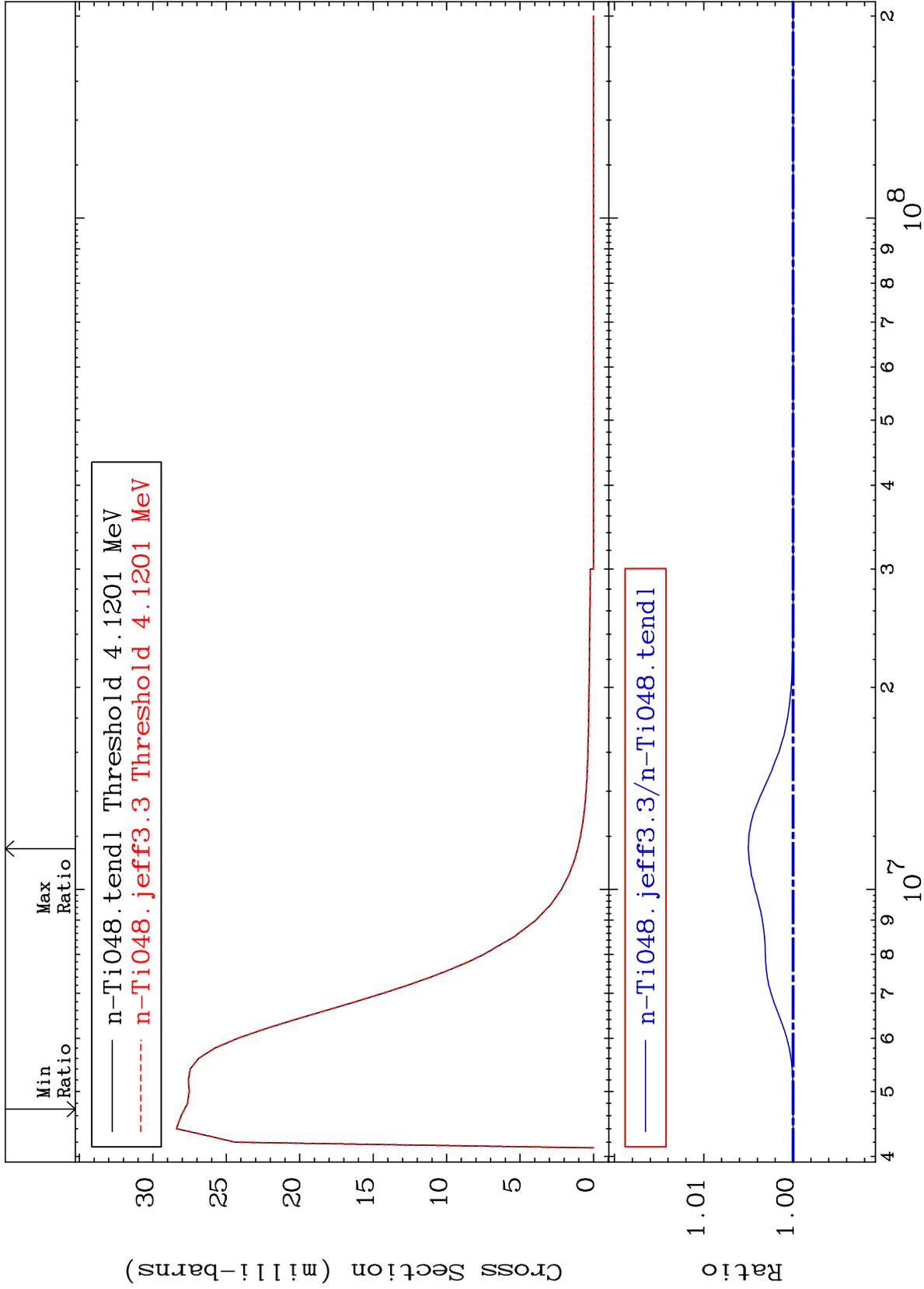
Incident Energy (eV)

22-Ti-48

MAT 2231

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

22-Ti-48  
0.000 To 0.501 %



37

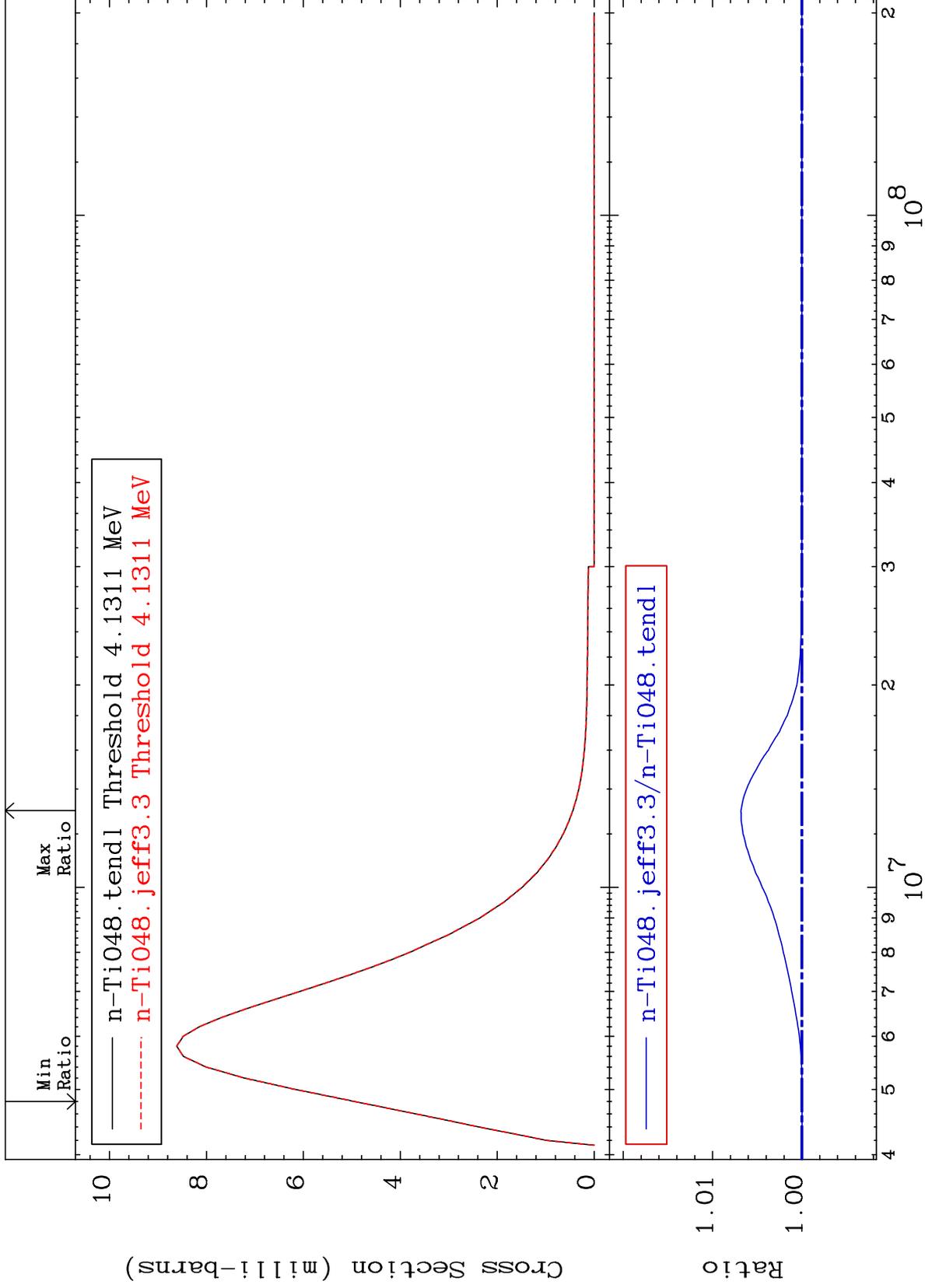
Incident Energy (eV)

22-Ti-48

MAT 2231

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

22-Ti-48  
-0.002 To 0.682 %



38

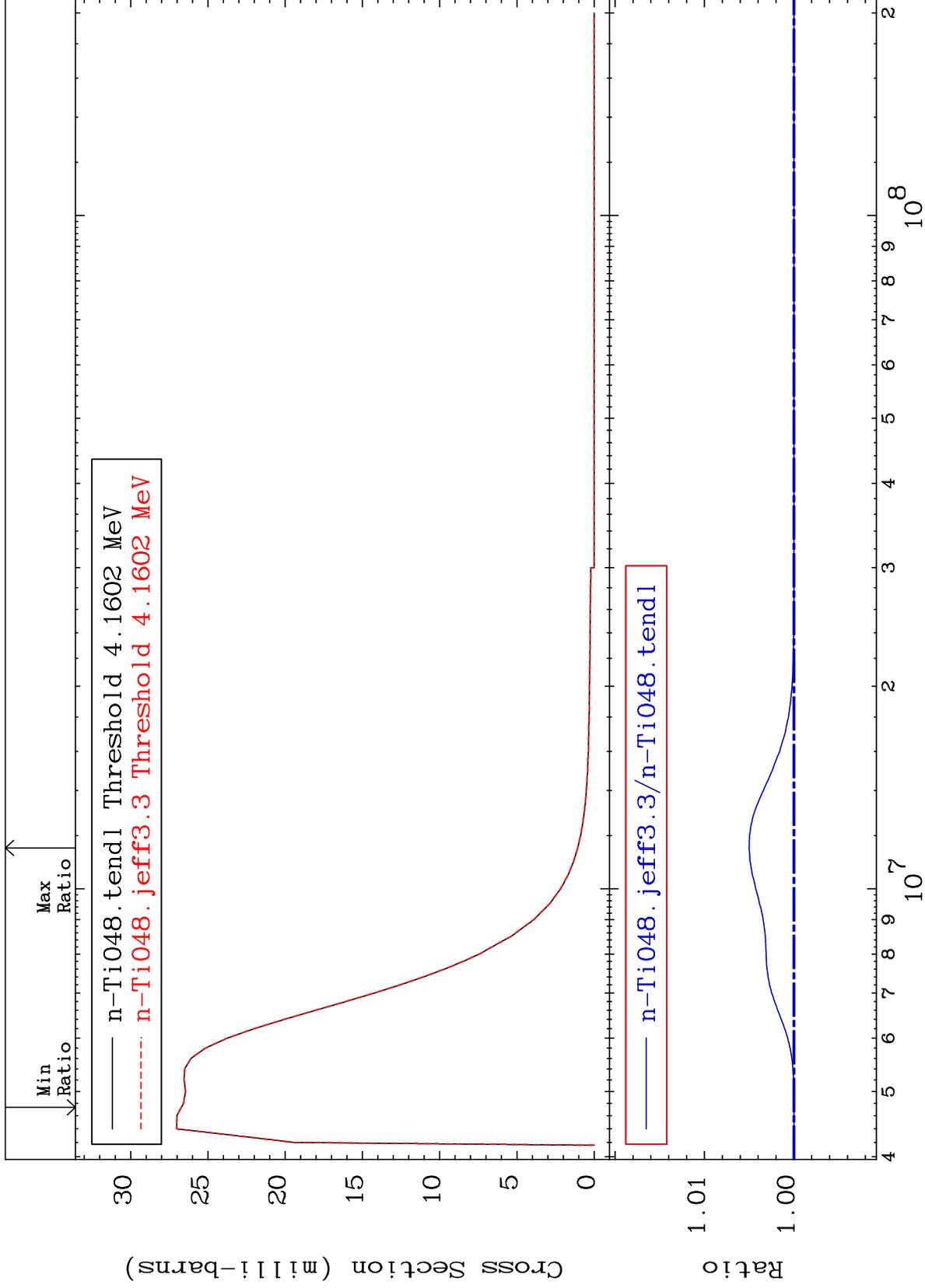
Incident Energy (eV)

22-Ti-48

MAT 2231

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

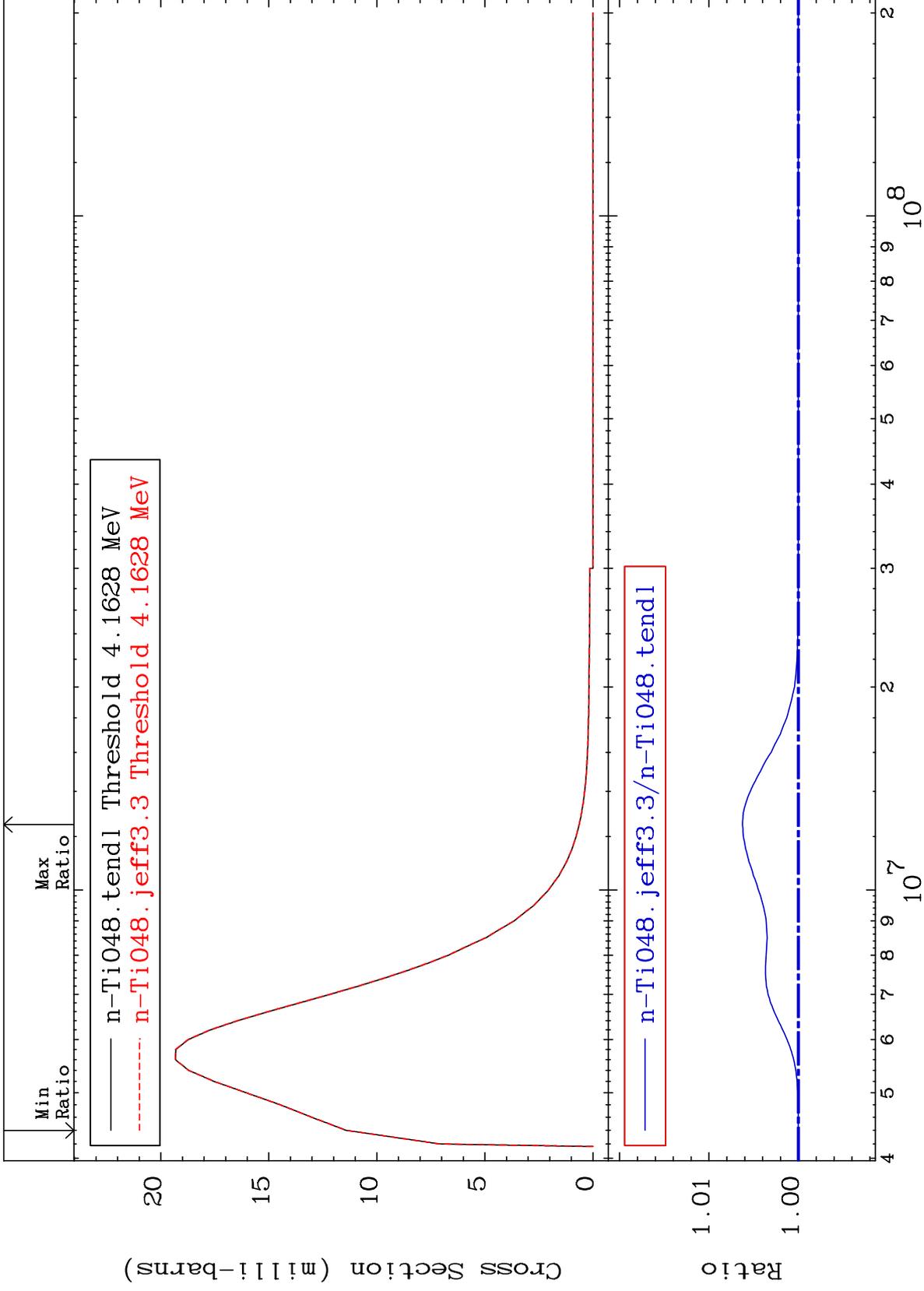
22-Ti-48  
0.000 To 0.501 %



MAT 2231

MT= 75 (n,n') Level  
Cross Section

22-Ti-48  
0.000 To 0.625 %



40

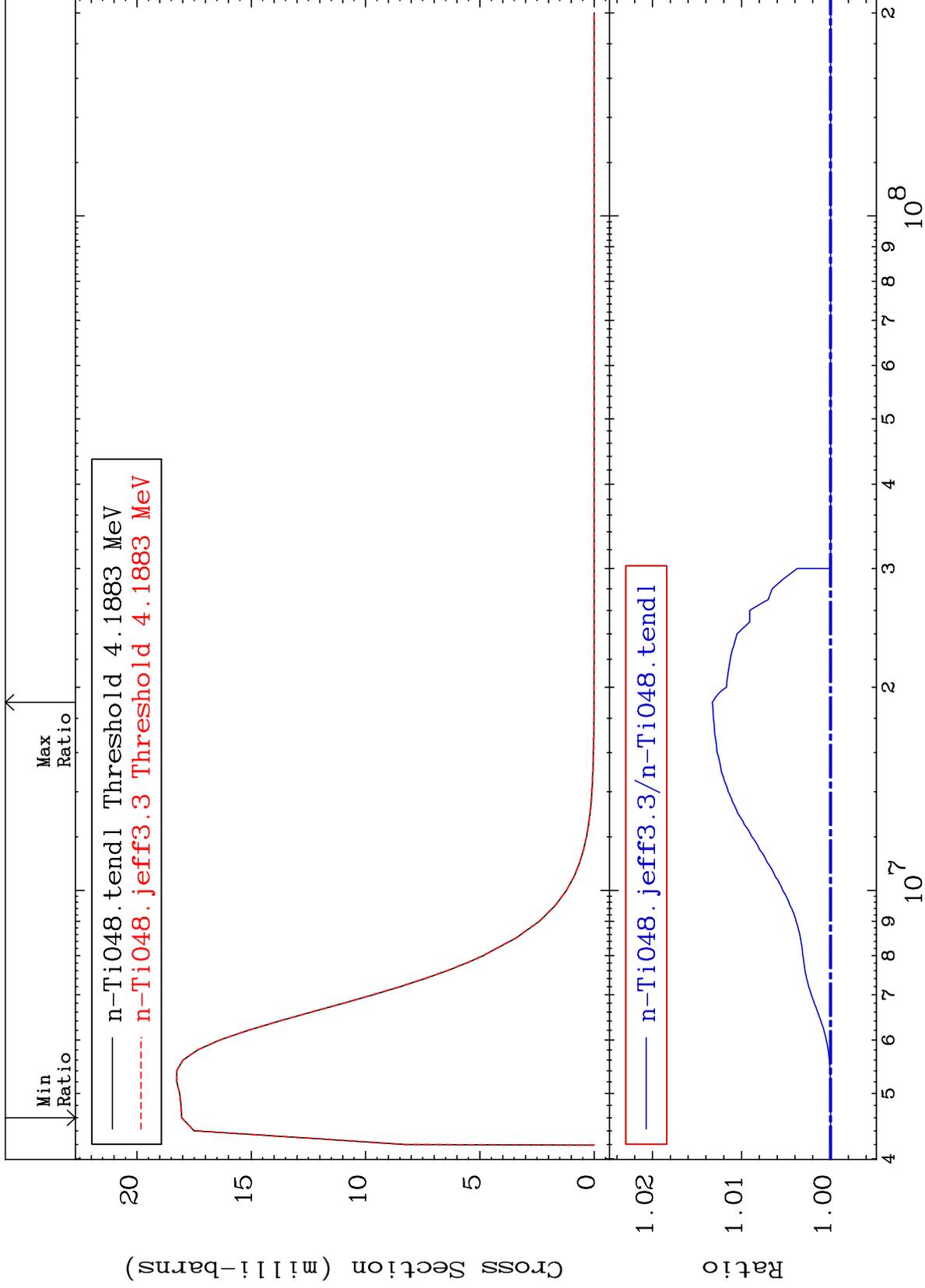
Incident Energy (eV)

22-Ti-48

MAT 2231

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

22-Ti-48  
0.000 To 1.327 %



41

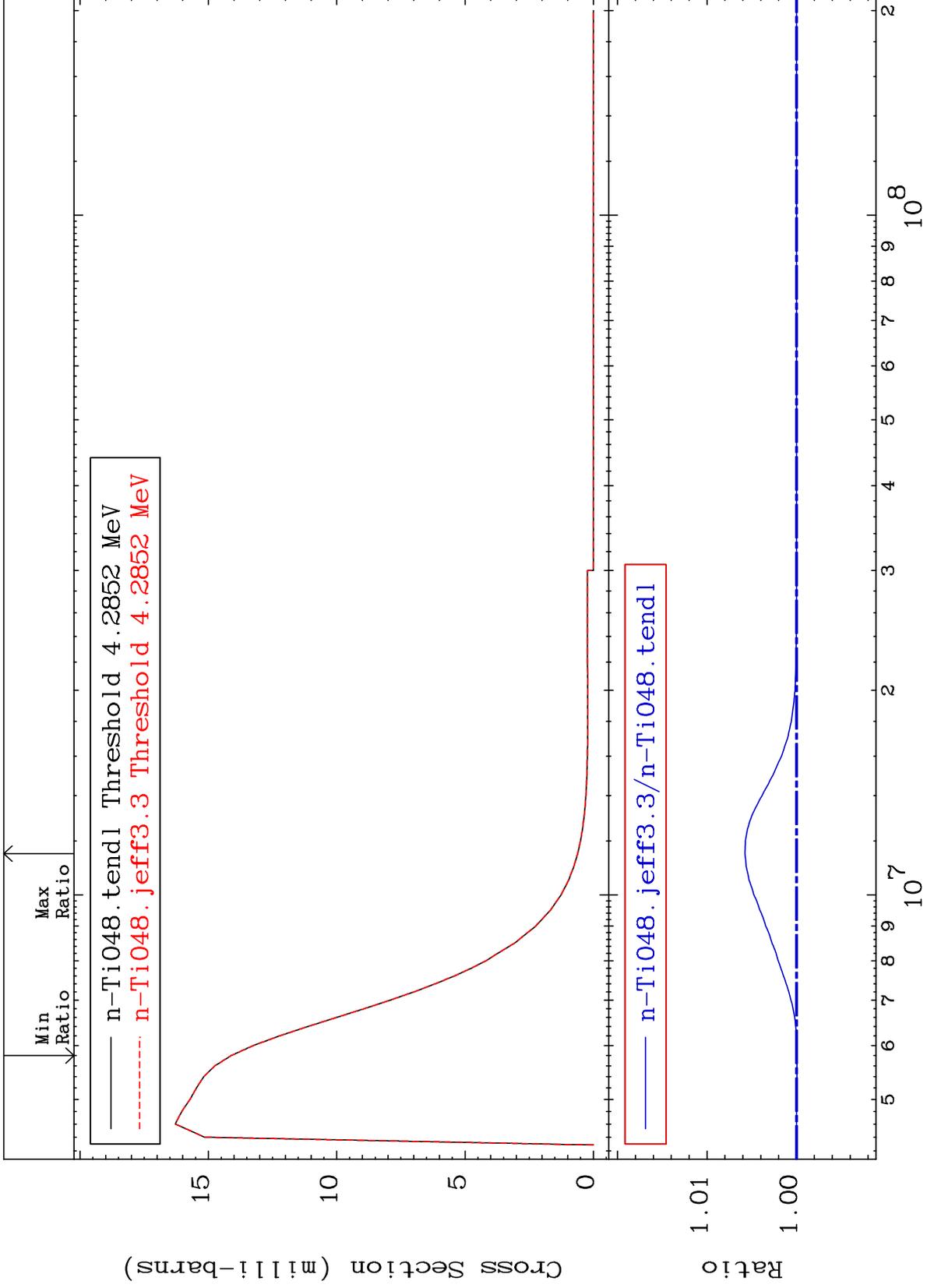
Incident Energy (eV)

22-Ti-48

MAT 2231

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

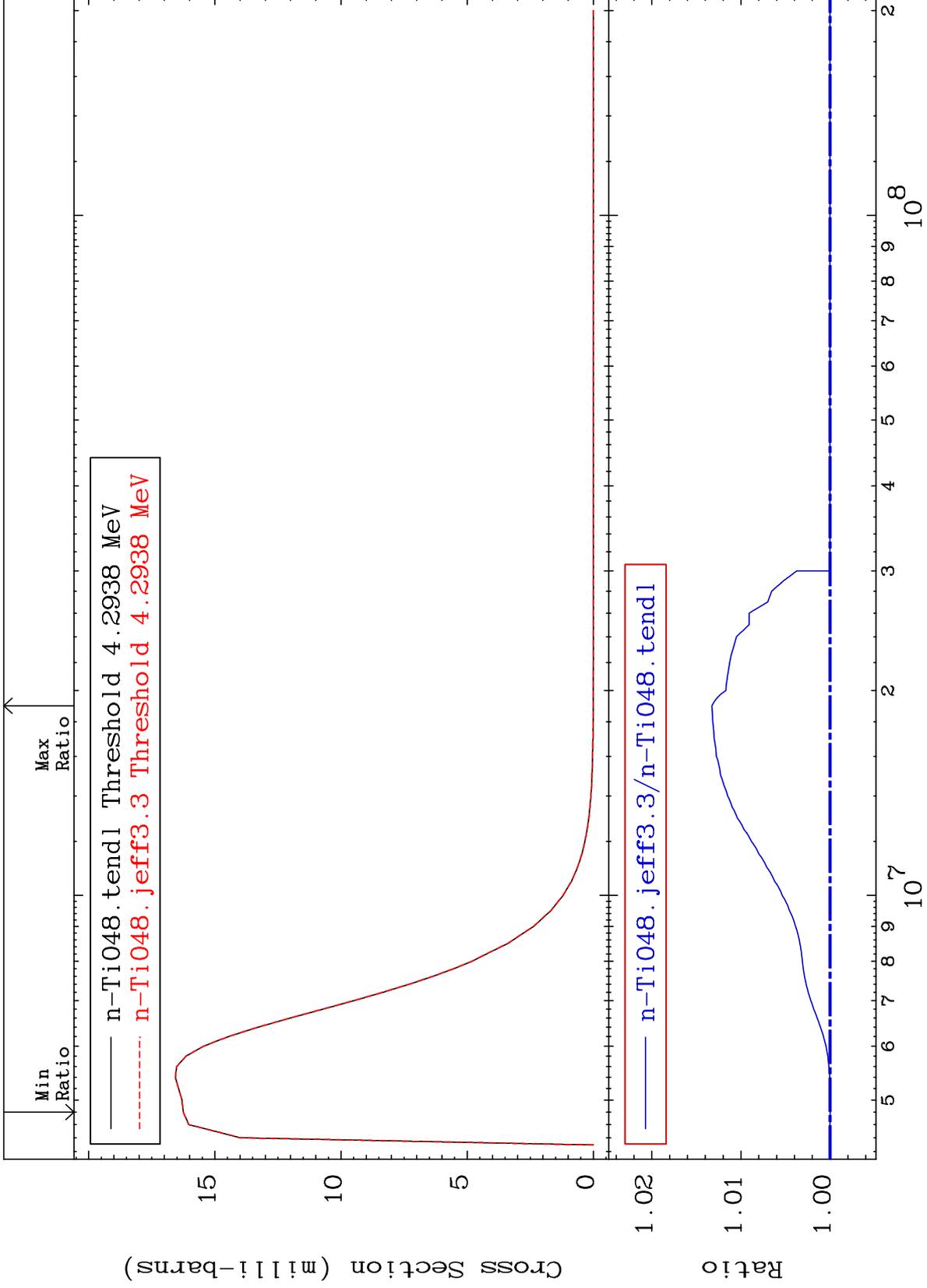
22-Ti-48  
-0.006 To 0.576 %



MAT 2231

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

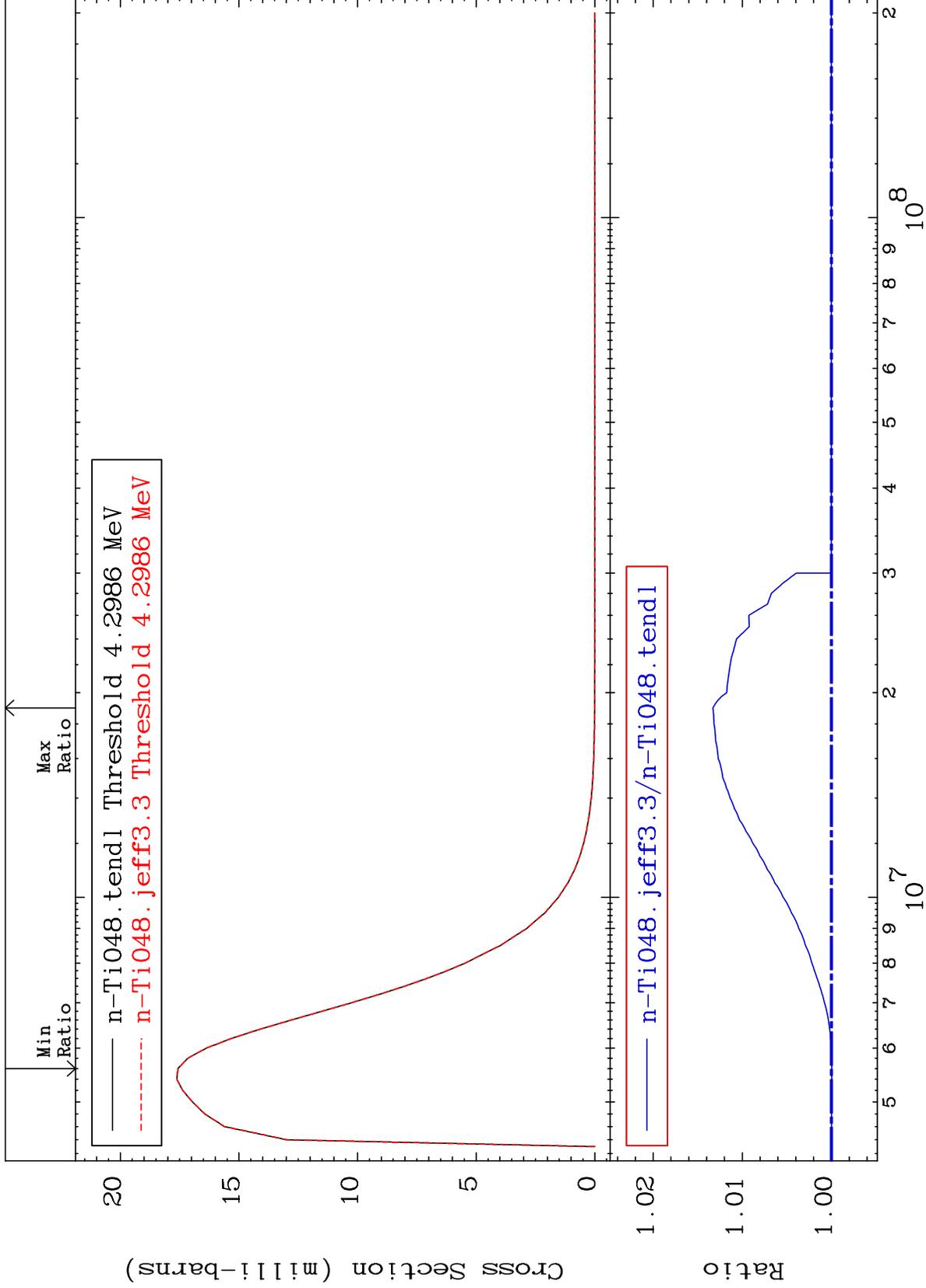
22-Ti-48  
0.000 To 1.327 %



MAT 2231

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

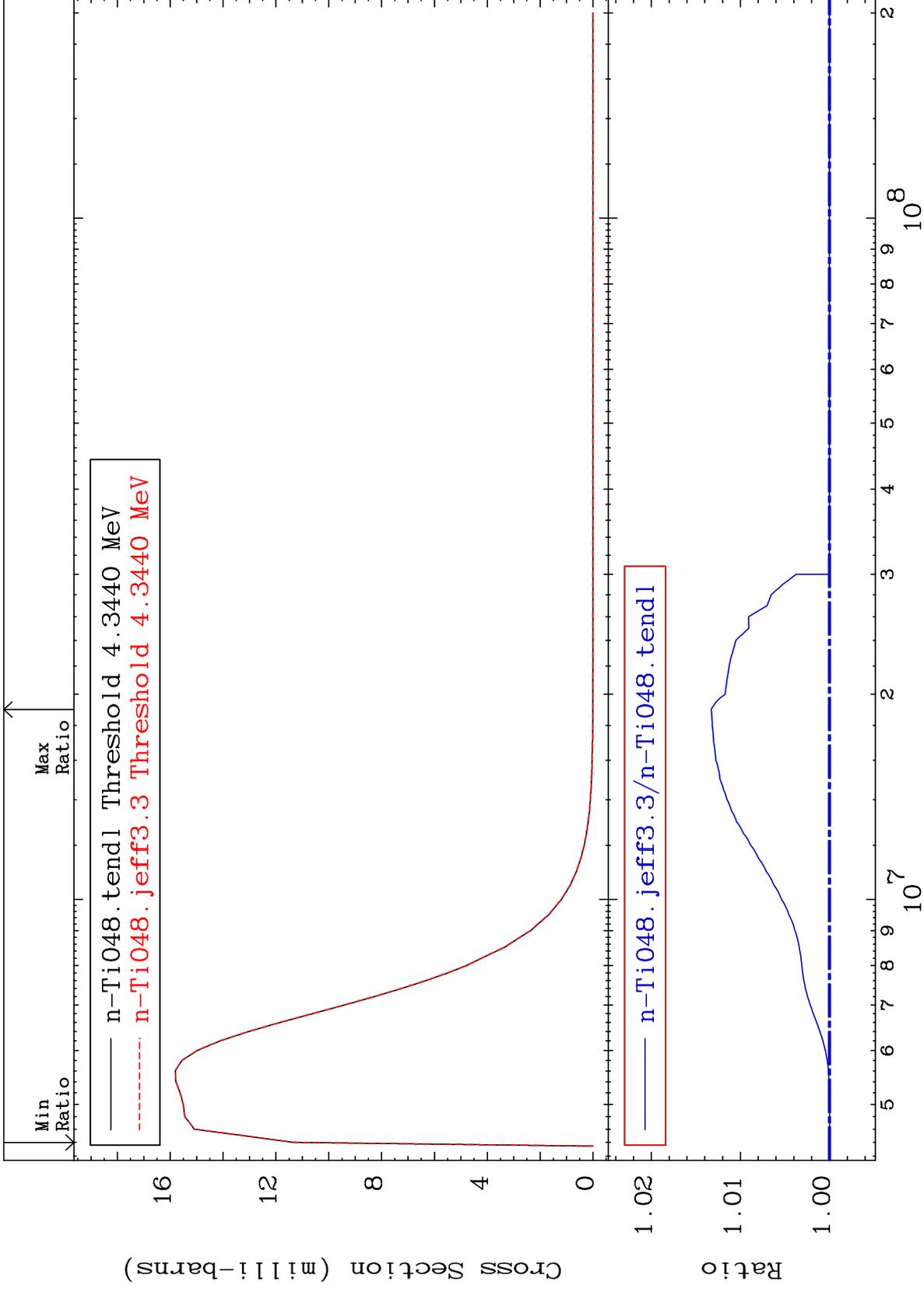
<sup>22</sup>Ti-48  
-0.004 To 1.329 %



MAT 2231

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

22-Ti-48  
0.000 To 1.327 %



45

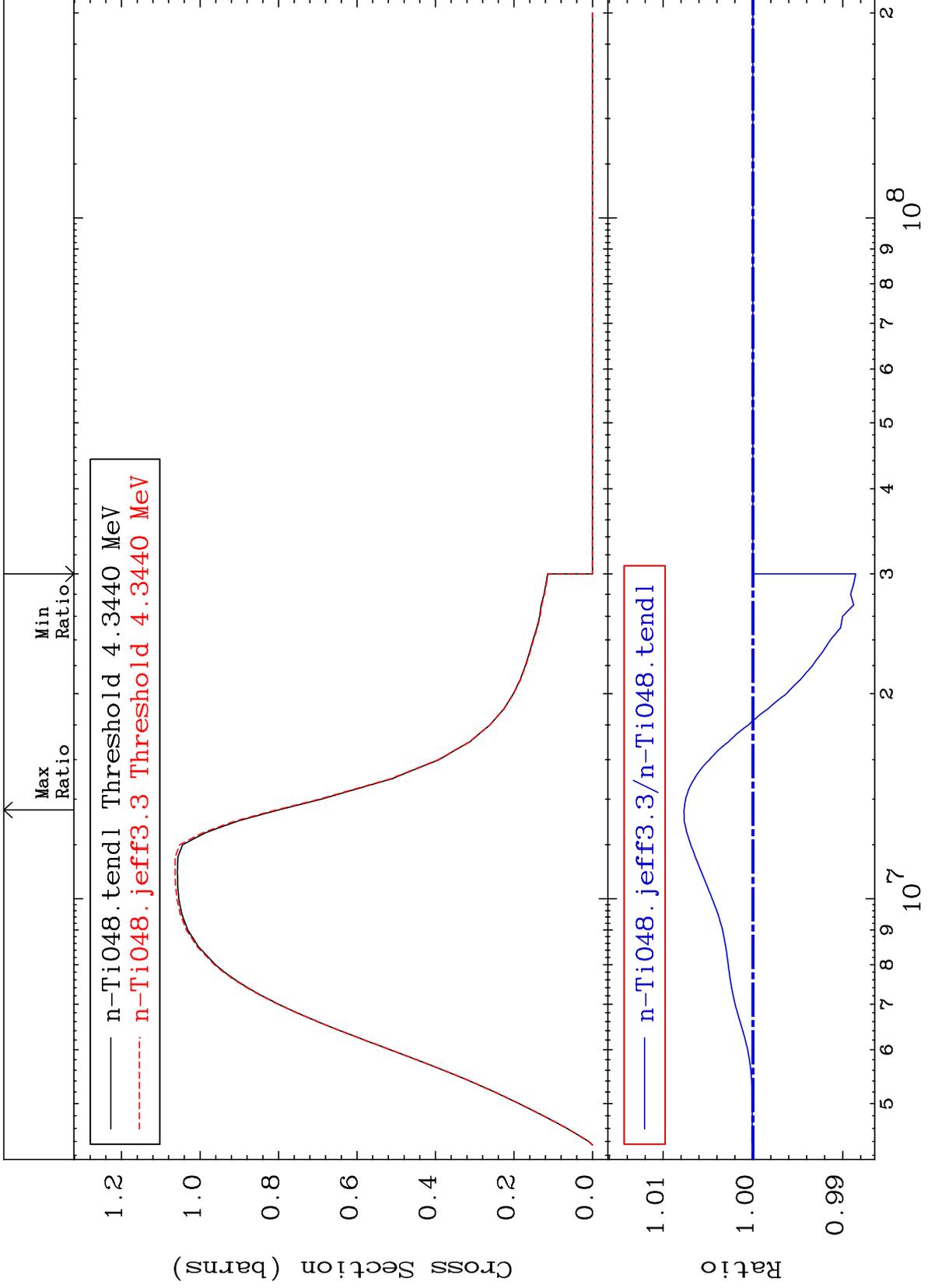
Incident Energy (eV)

22-Ti-48

MAT 2231

(n, n') Continuum  
Cross Section

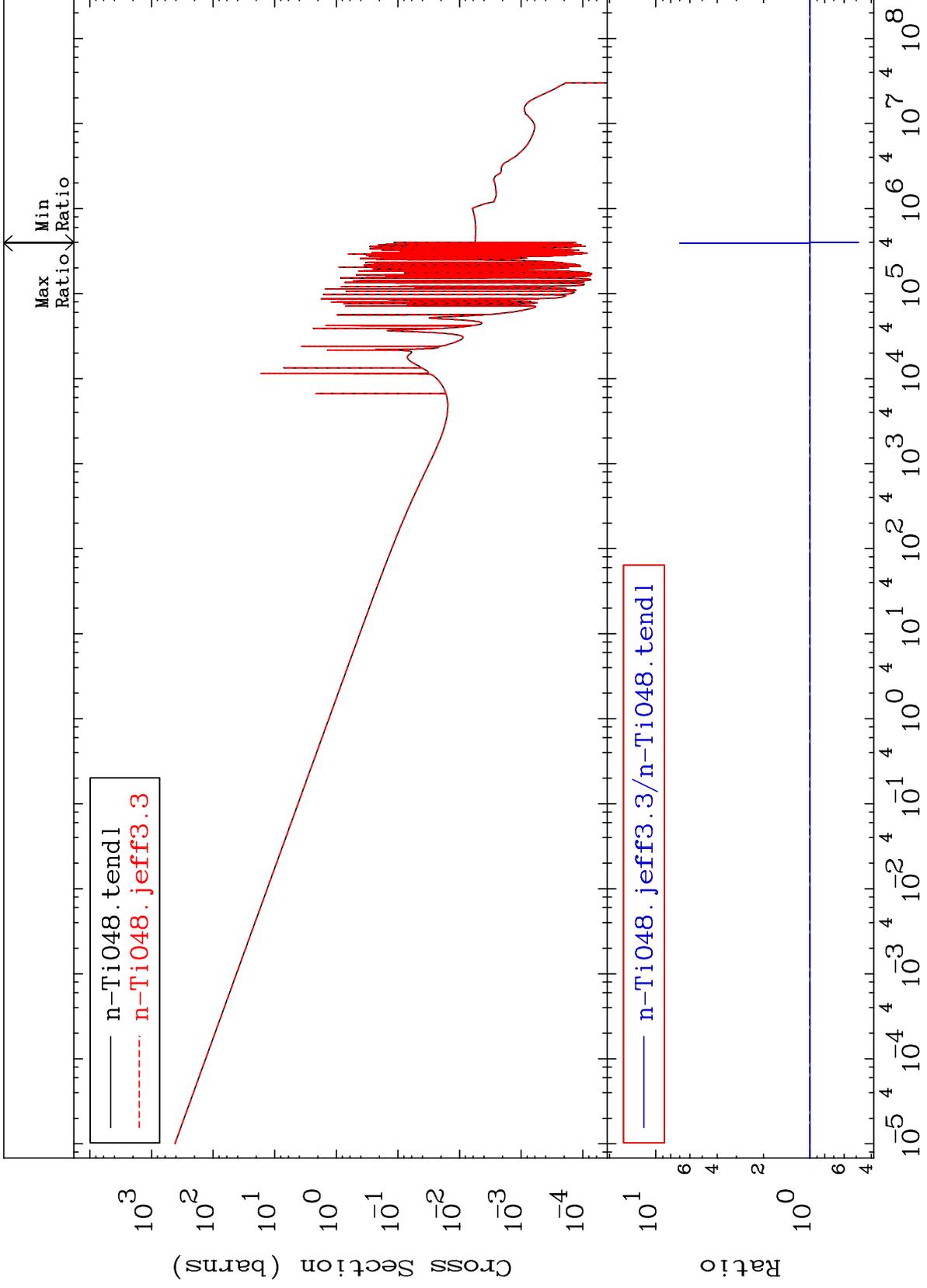
<sup>22</sup>Ti-48  
-1.145 To 0.767 %



MAT 2231

(n,  $\gamma$ )  
Cross Section

22-Ti-48  
-51.63 To 601.4 %



MAT 2231

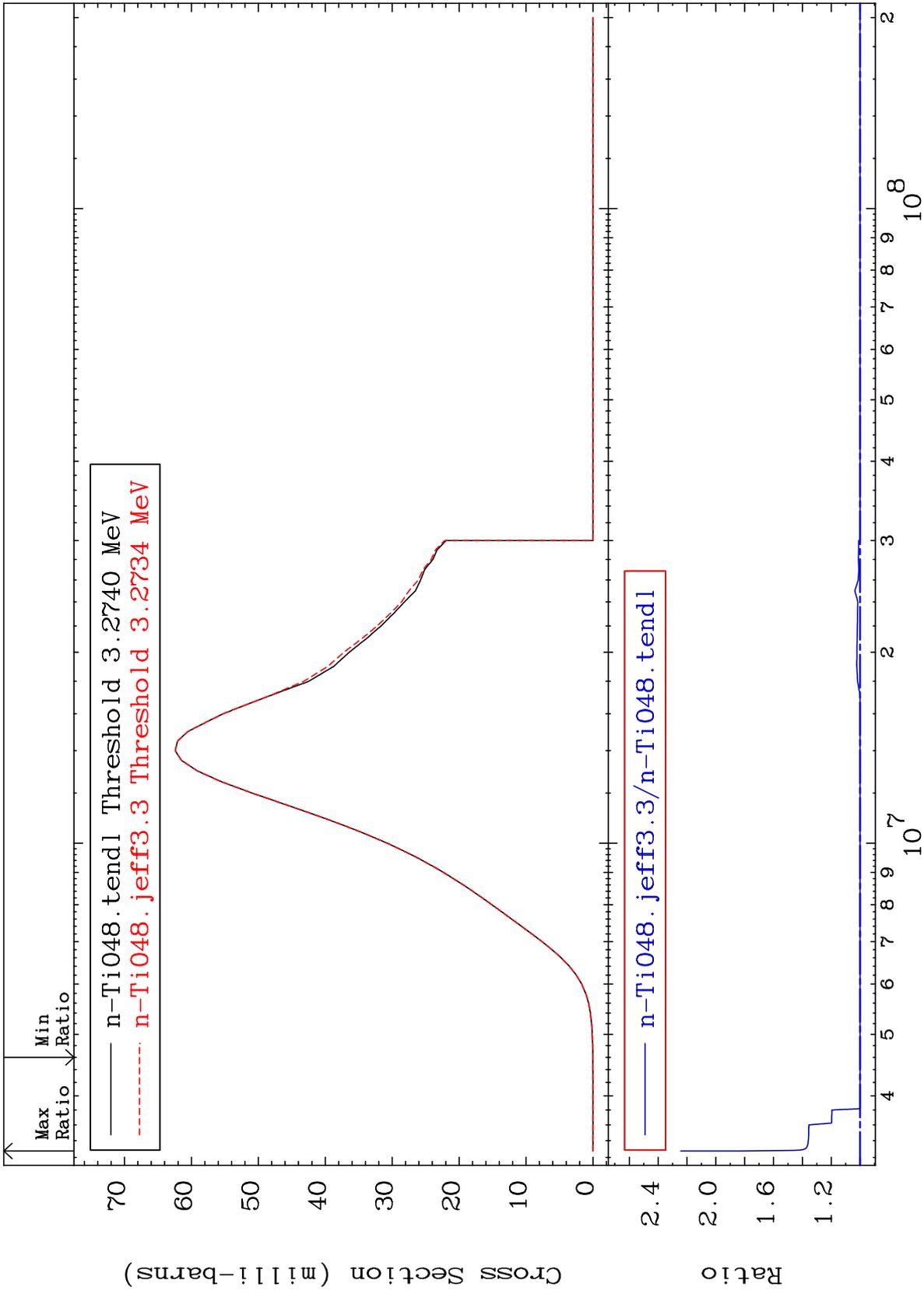
(n,p)

<sup>22</sup>Ti-48

Cross Section

0.000

To 124.3 %



48

Incident Energy (eV)

<sup>22</sup>Ti-48

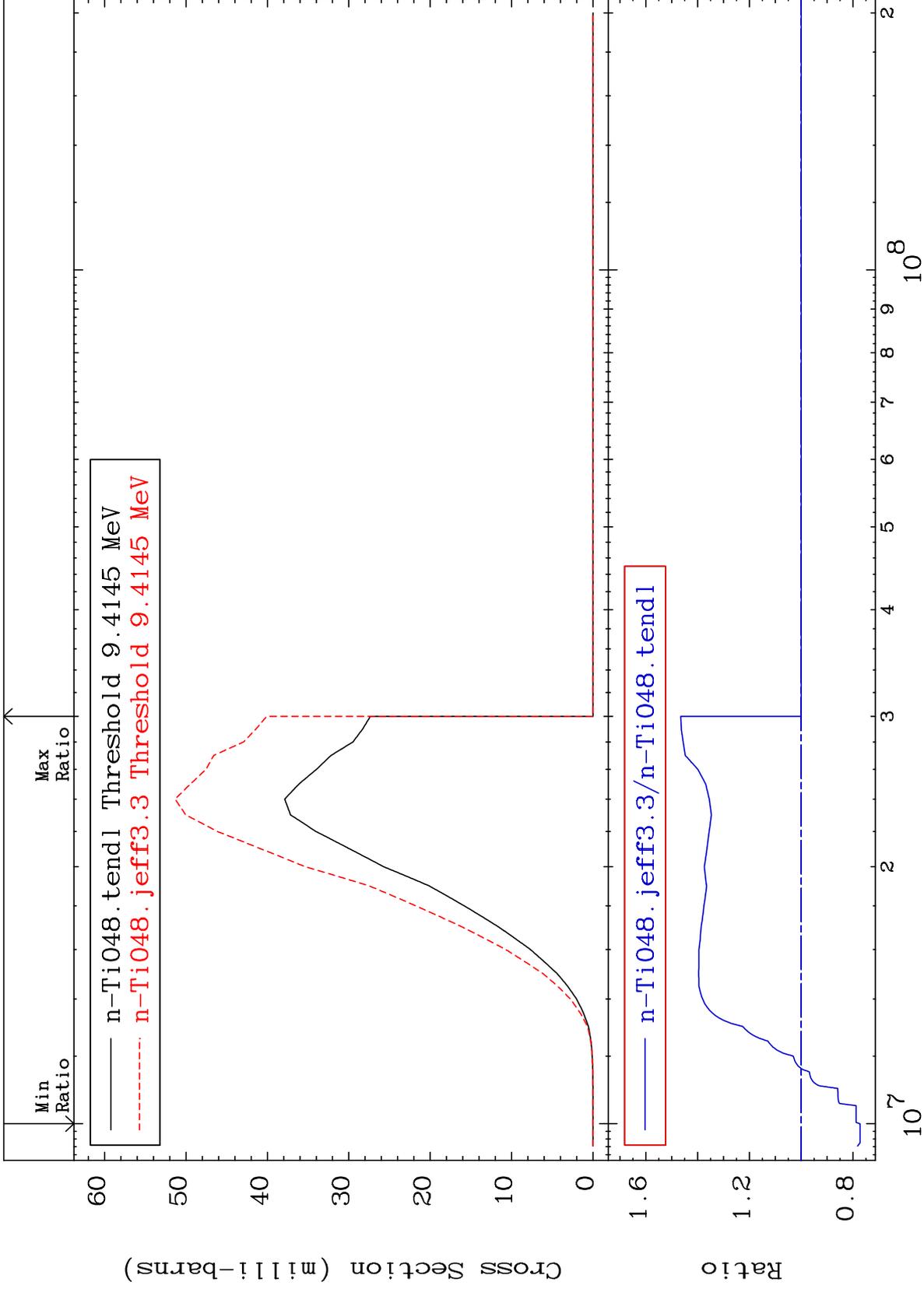
MAT 2231

(n, d)

22-Ti-48

Cross Section

-22.72 To 46.52 %



49

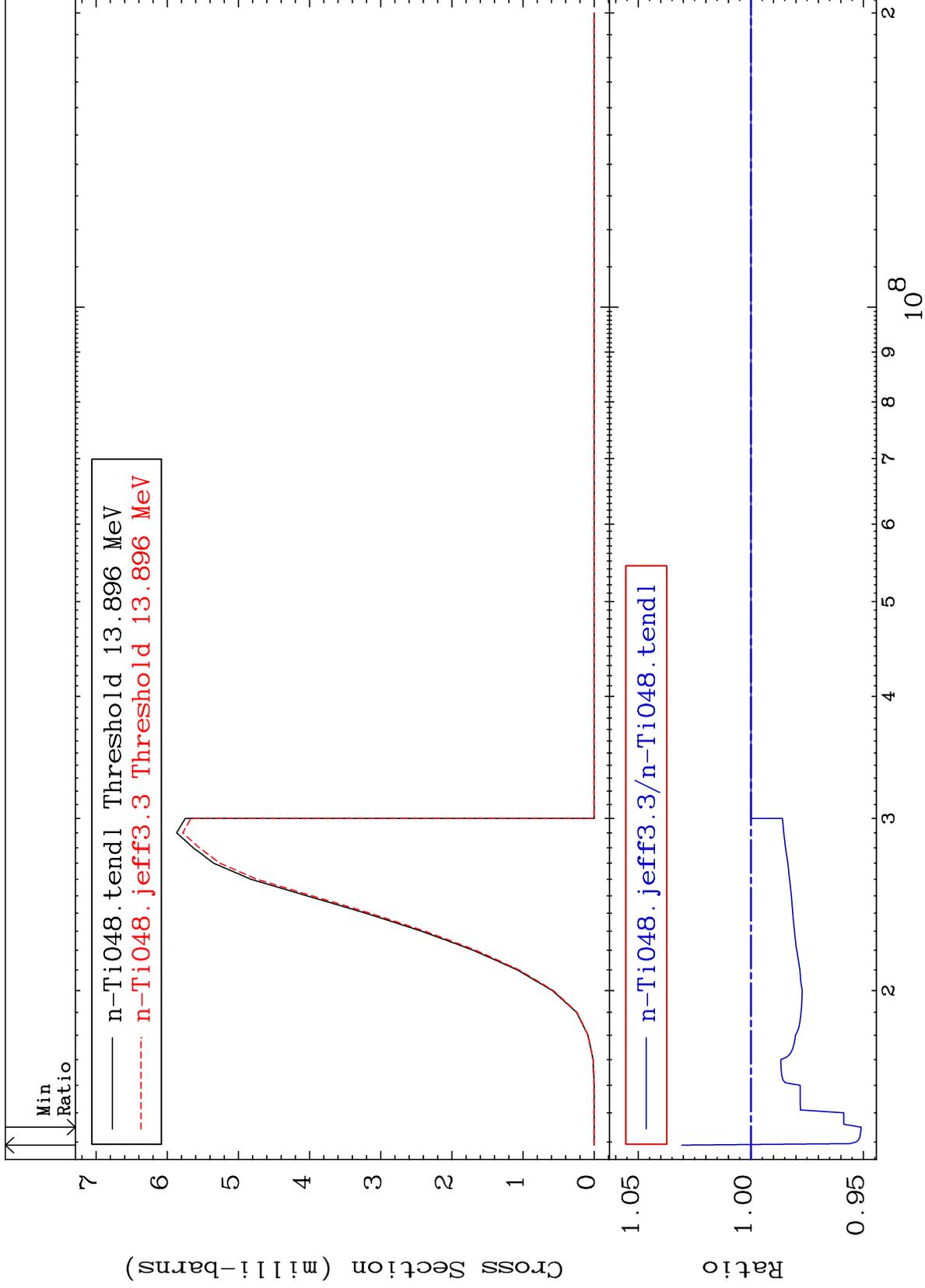
22-Ti-48

22-Ti-48

MAT 2231

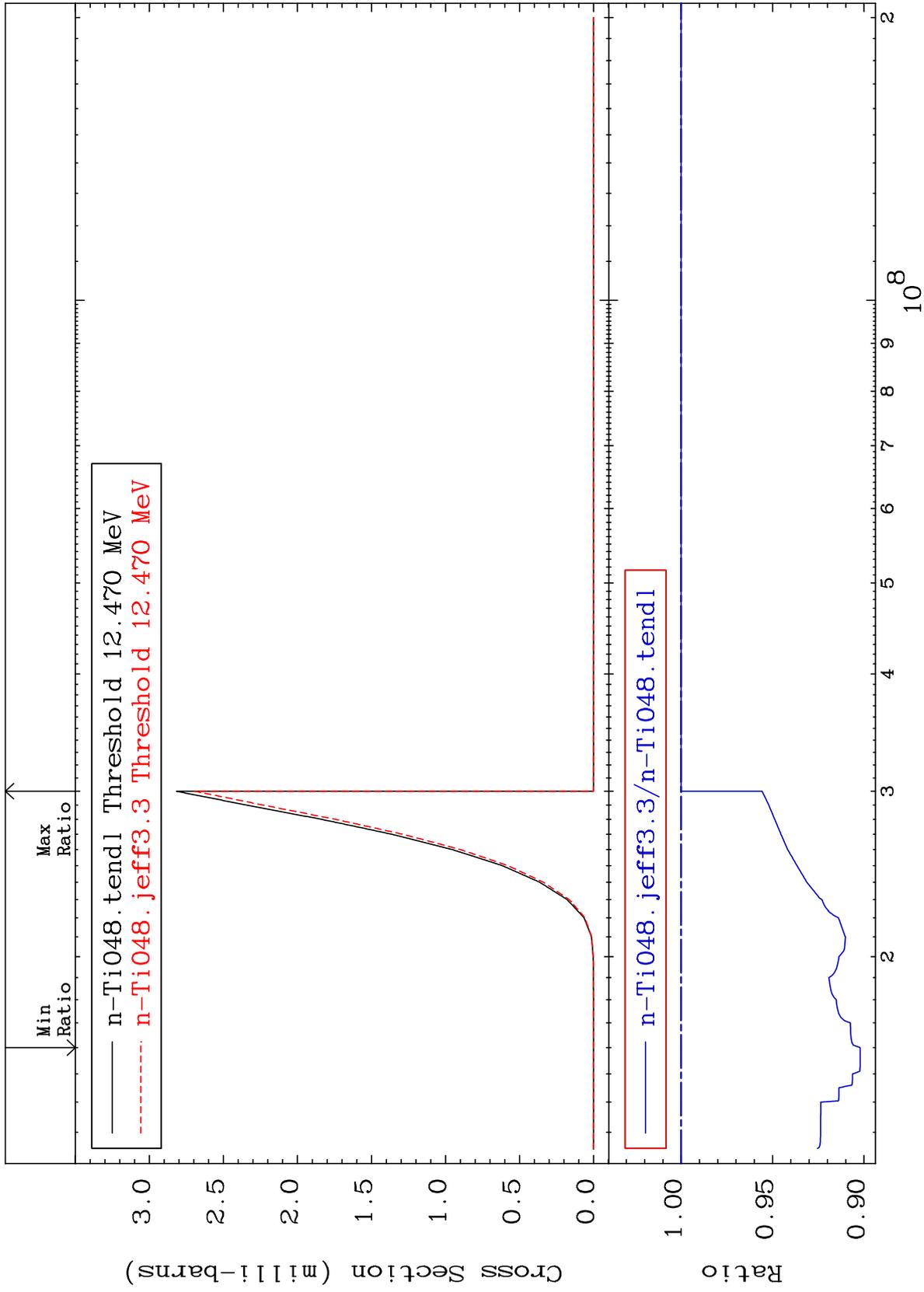
(n, t)  
Cross Section

<sup>22</sup>Ti-48  
-4.896 To 3.063 %



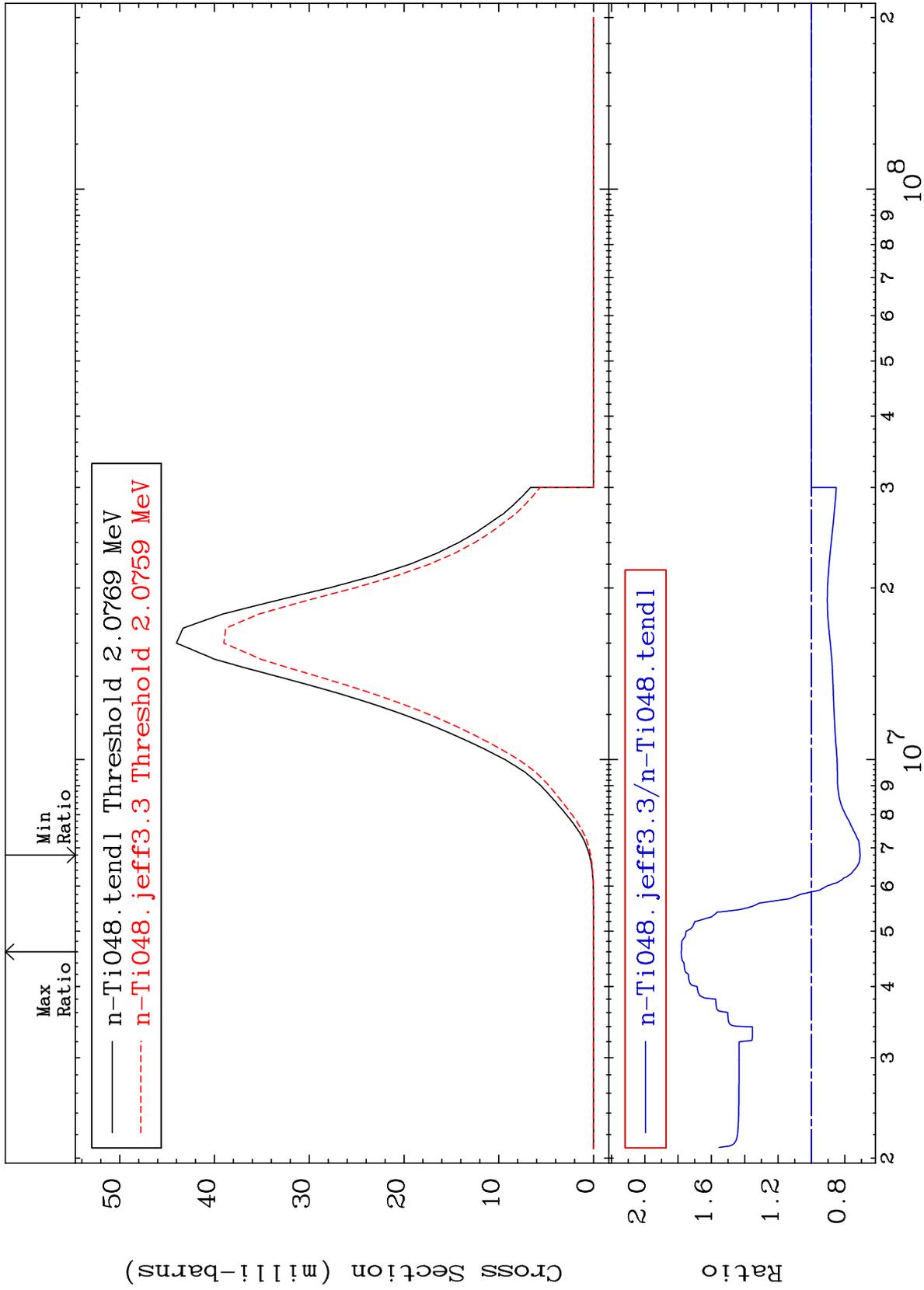
Cross Section

-9.791 To 0.000 %



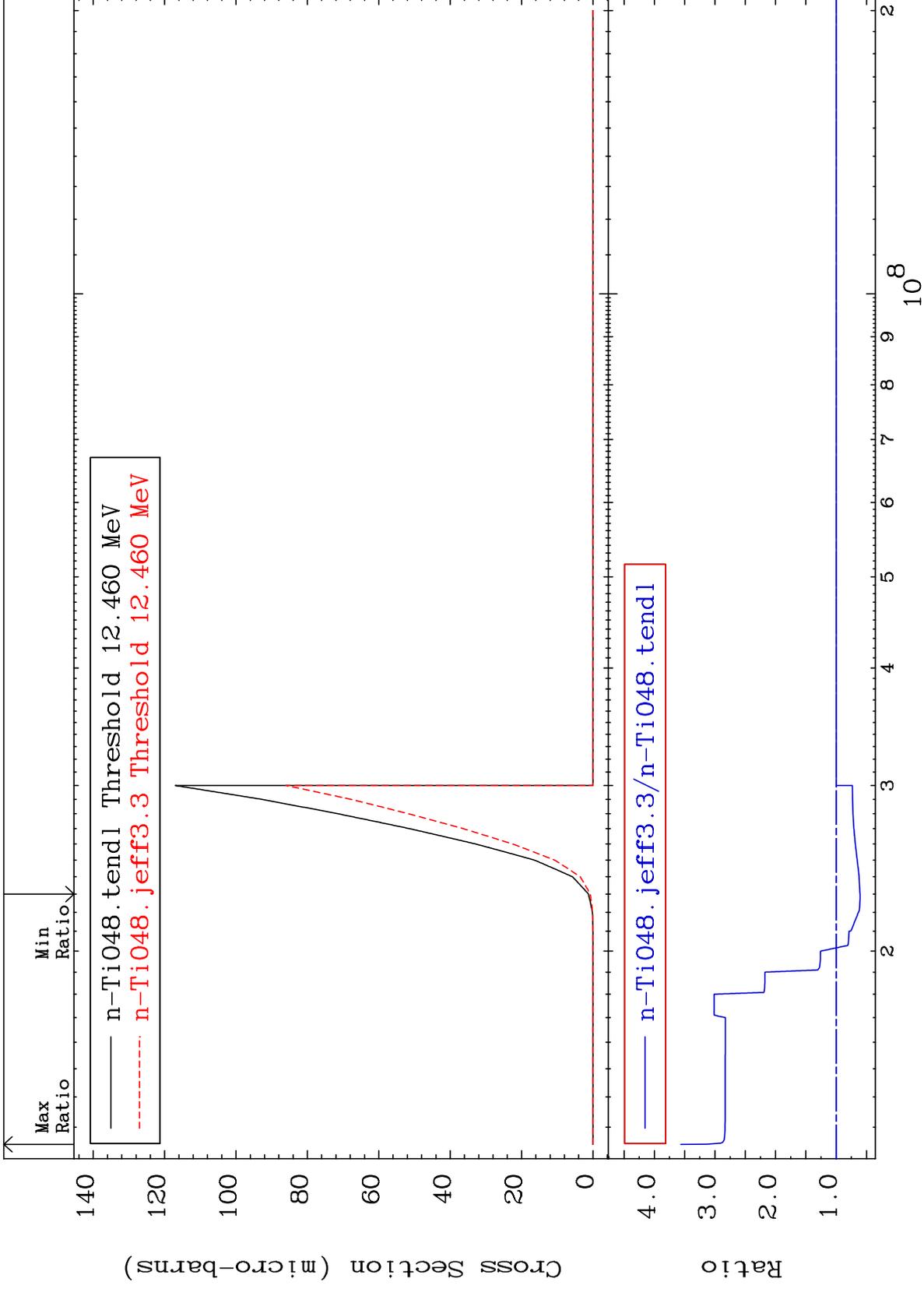
Cross Section

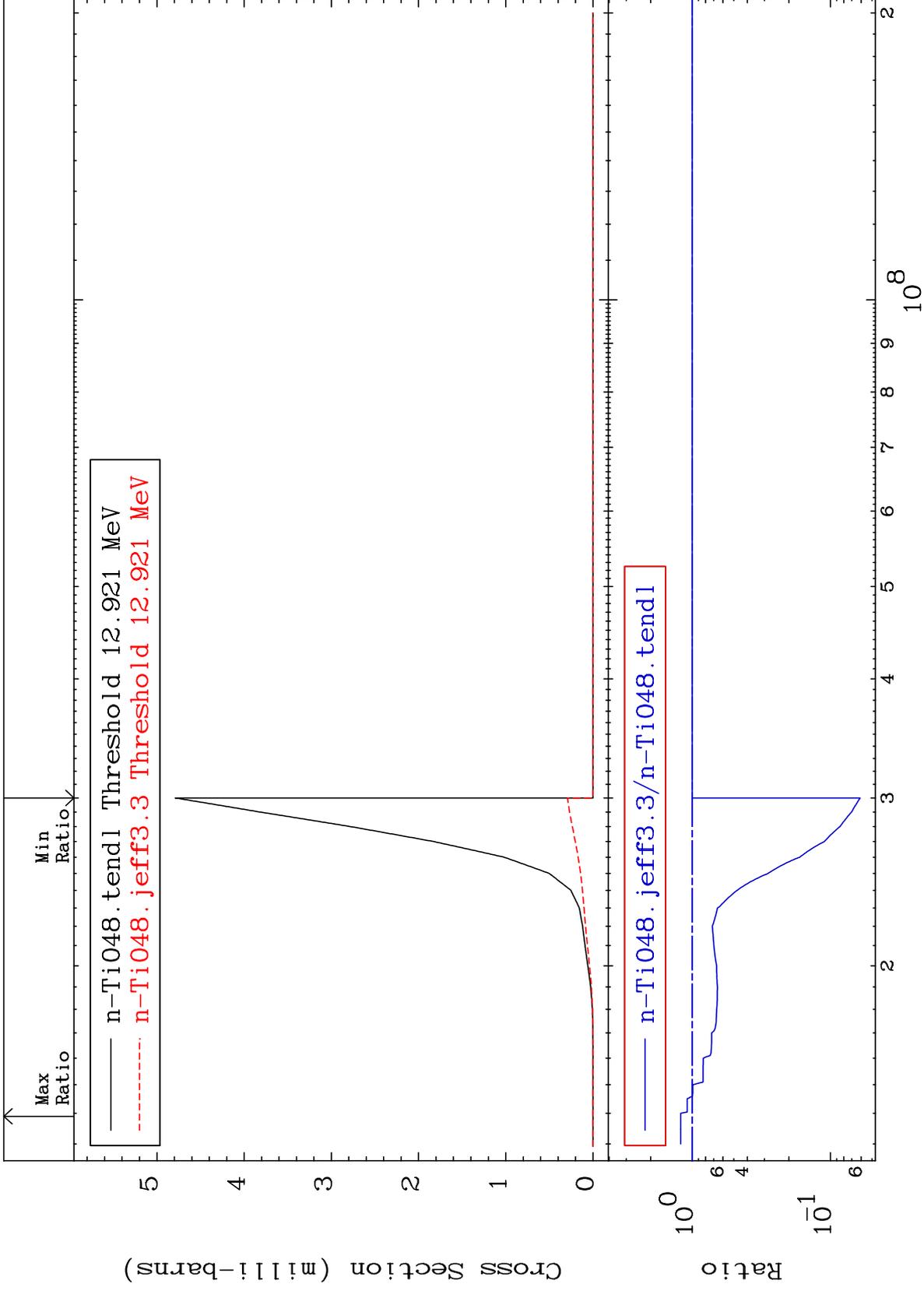
-29.29 To 78.16 %

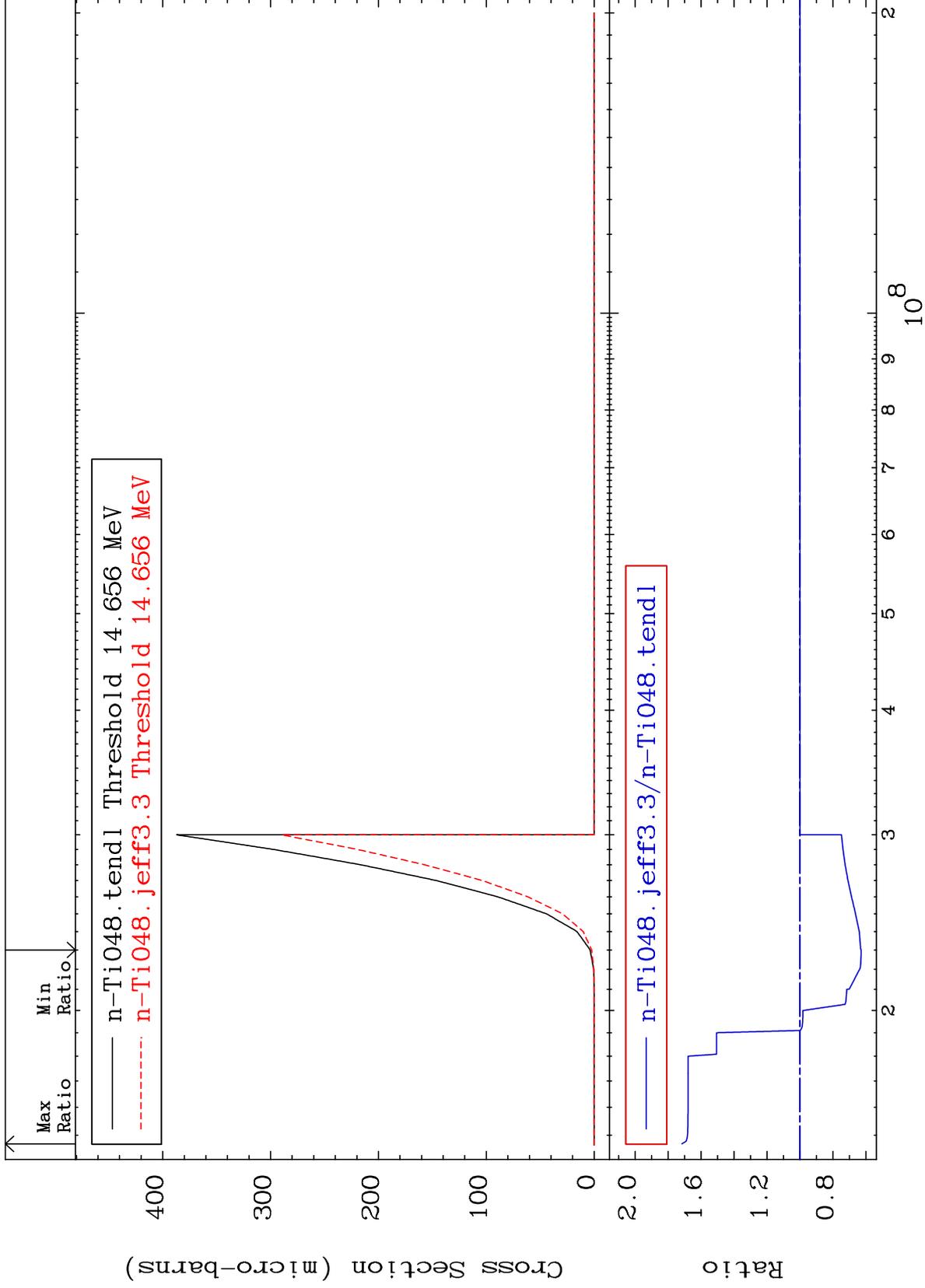


Cross Section

-39.43 To 256.4 %







MAT 2231

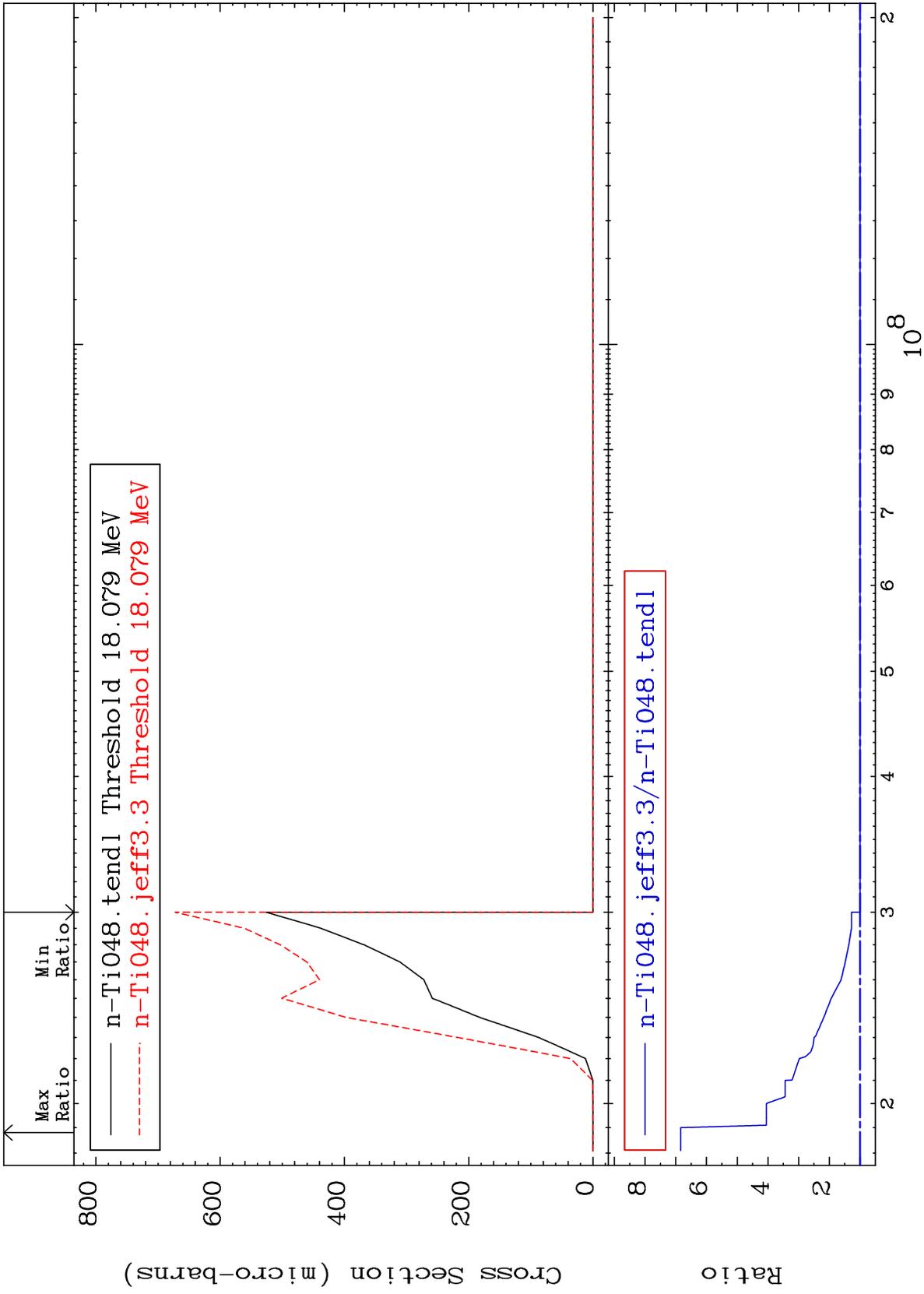
(n,p) d

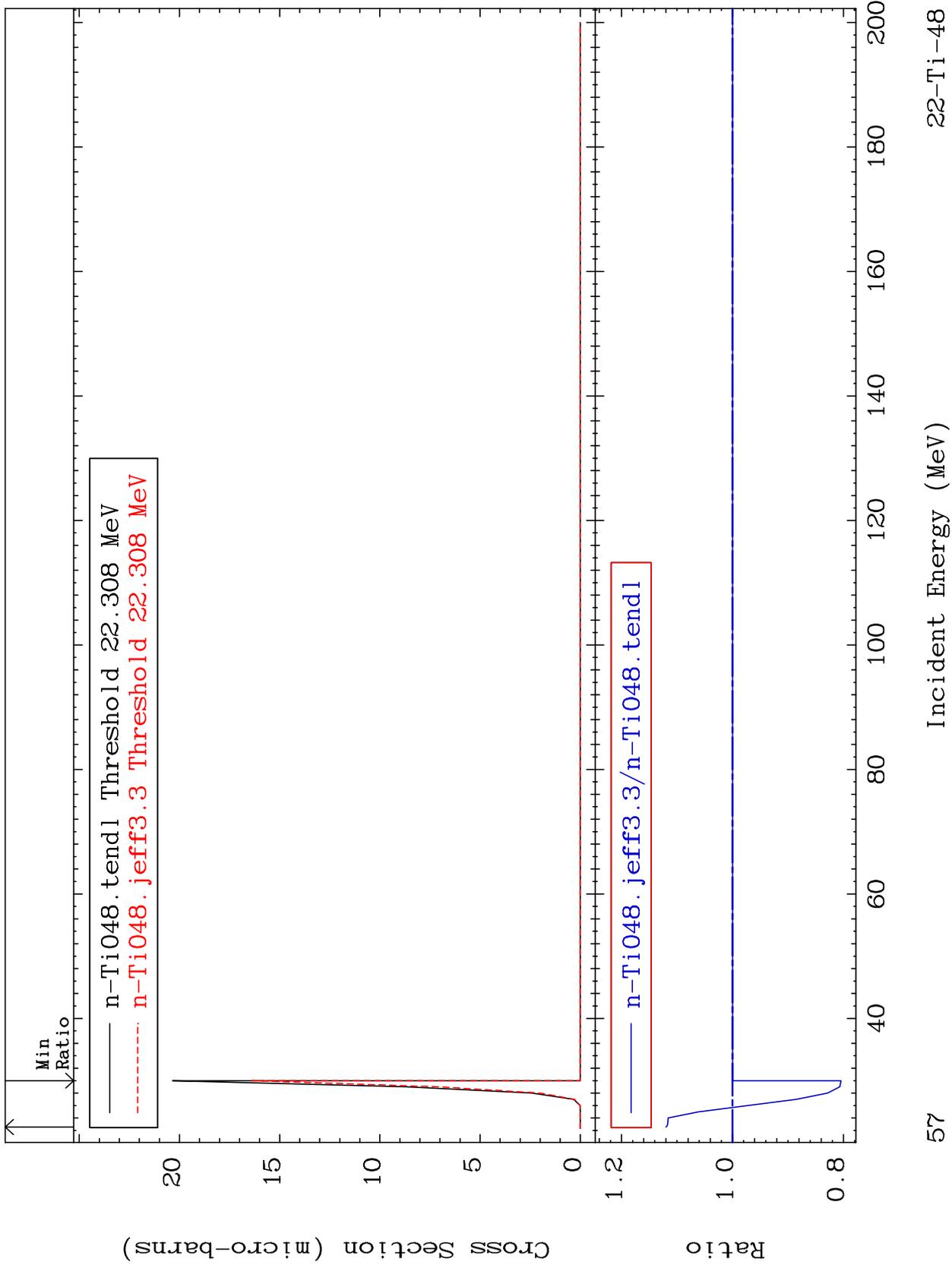
<sup>22</sup>Ti-48

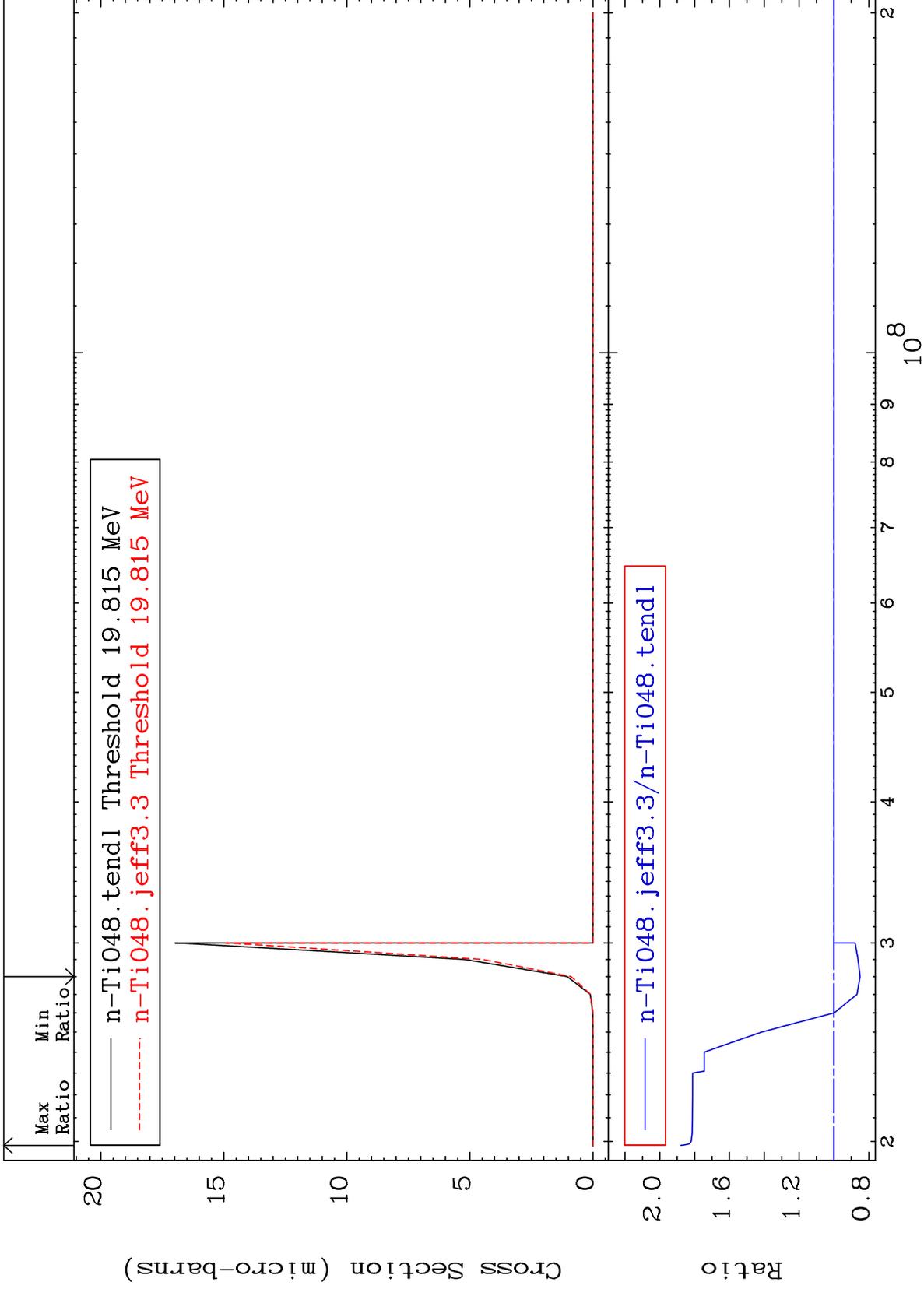
Cross Section

0.000

To 583.7 %



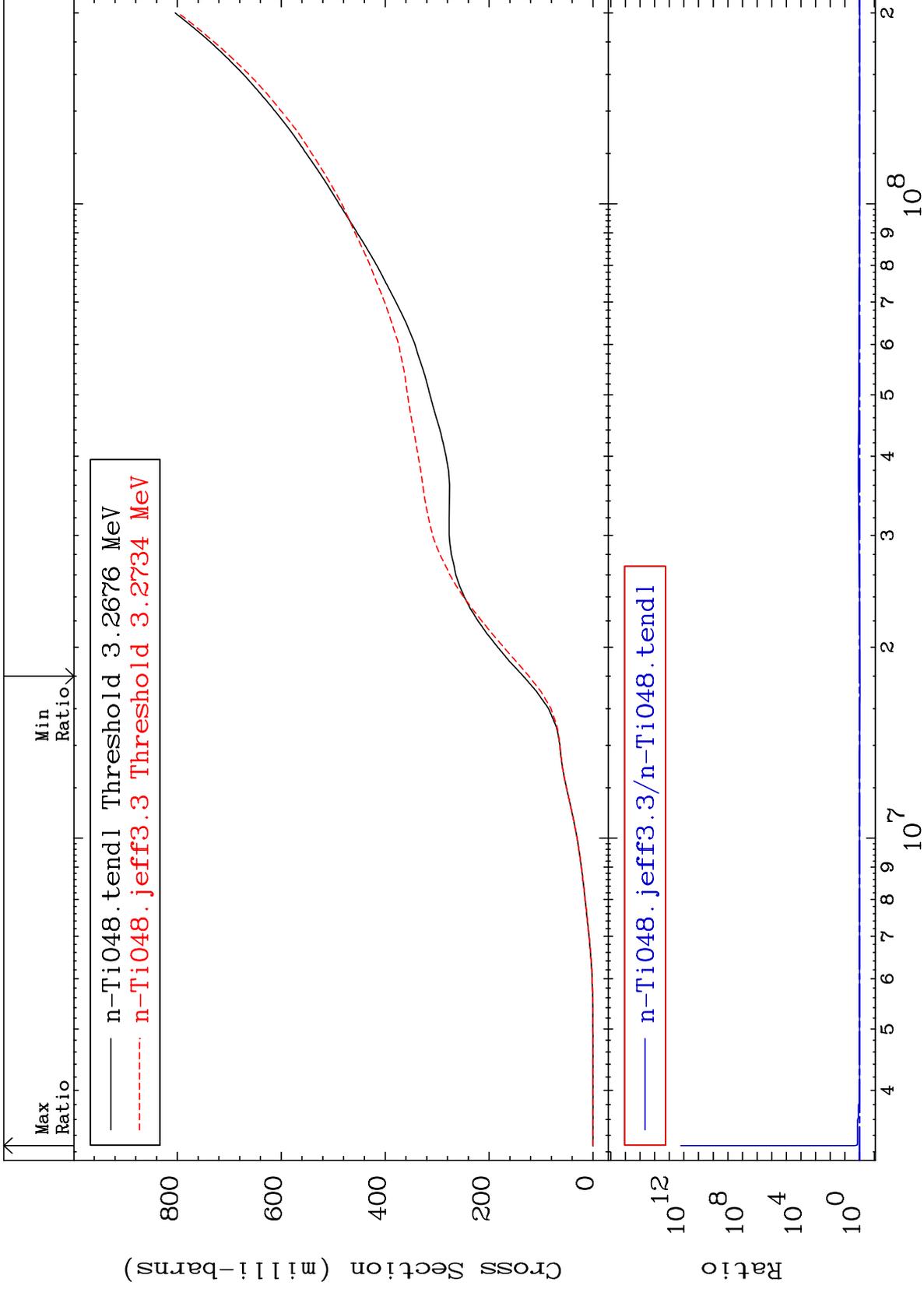




MAT 2231

Hydrogen Production  
Cross Section

<sup>22</sup>Ti-48  
-8.025 To 9999. %



59

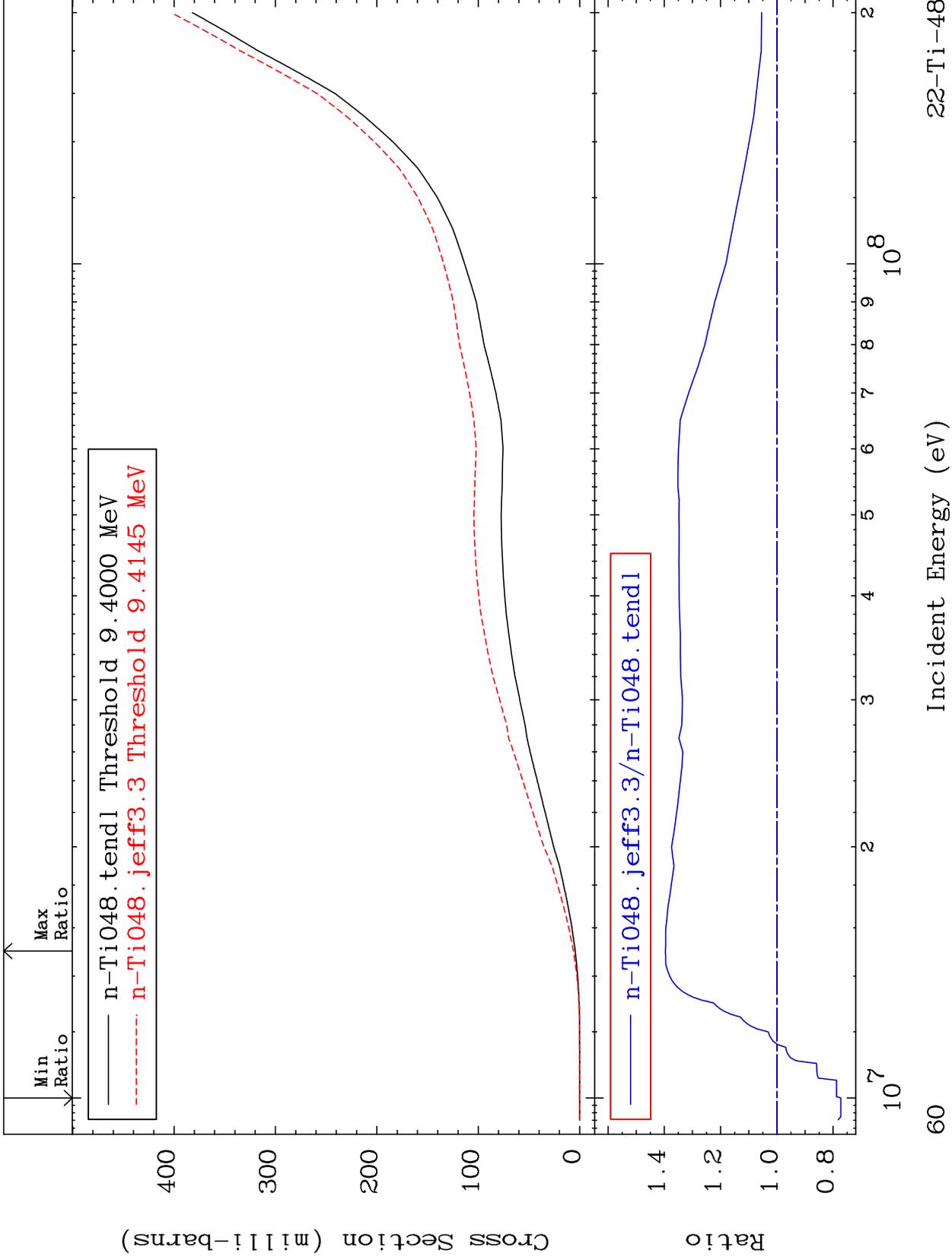
Incident Energy (eV)

<sup>22</sup>Ti-48

MAT 2231

Deuterium Production  
Cross Section

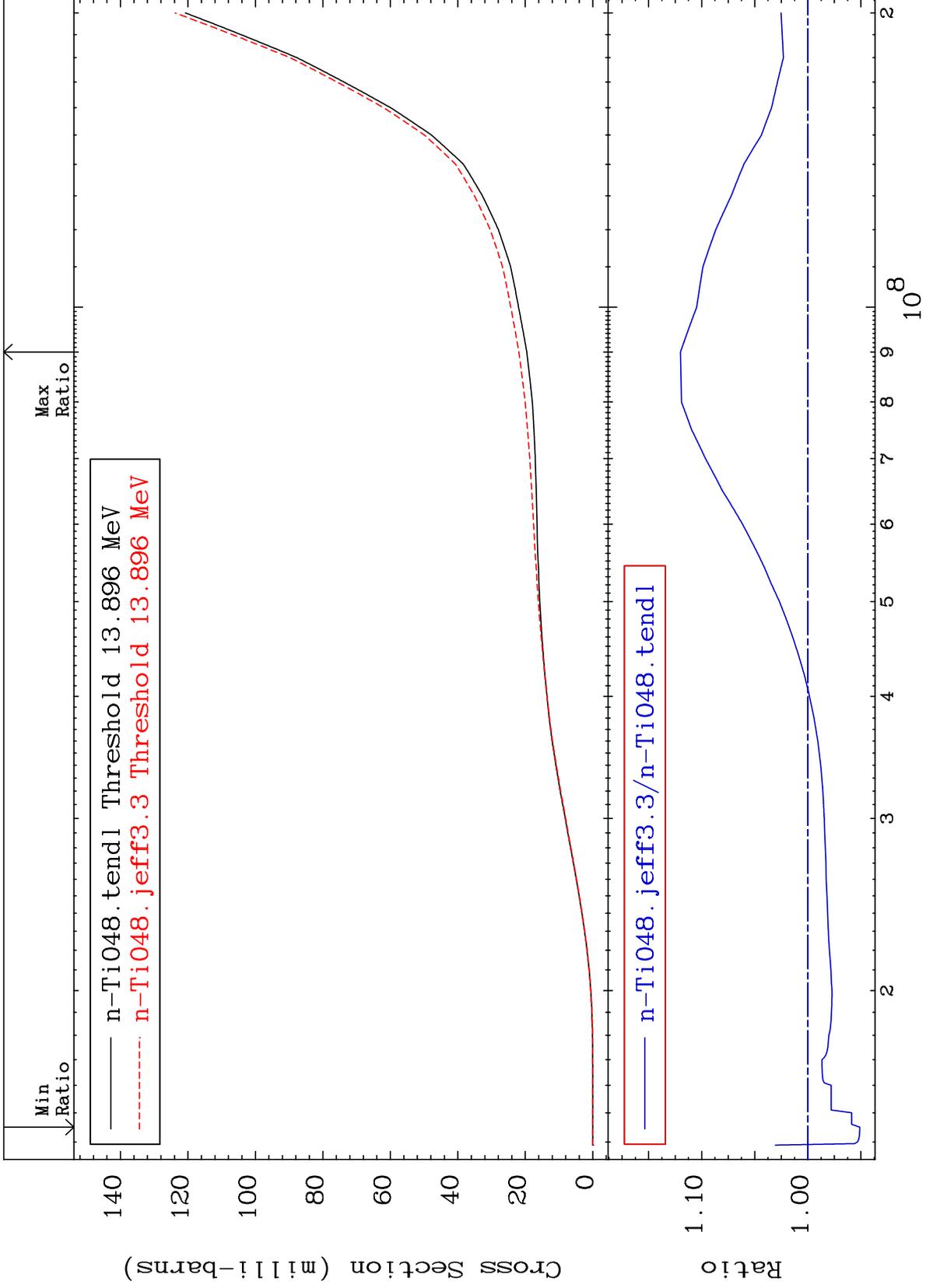
<sup>22</sup>Ti-48  
-22.72 To 39.58 %



MAT 2231

Tritium Production  
Cross Section

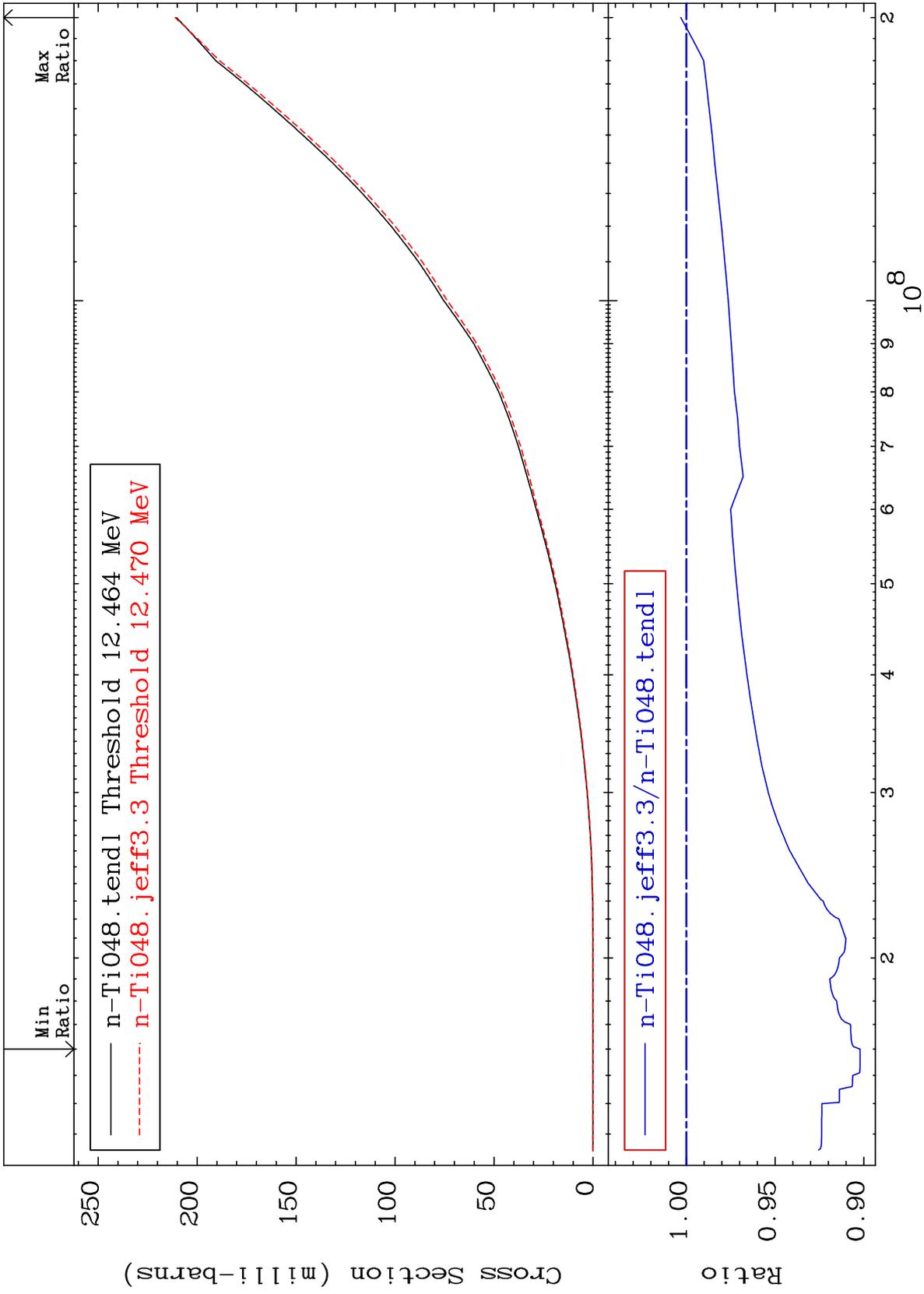
$^{22}\text{Ti-48}$   
-4.896 To 11.99 %



MAT 2231

He-3 Production  
Cross Section

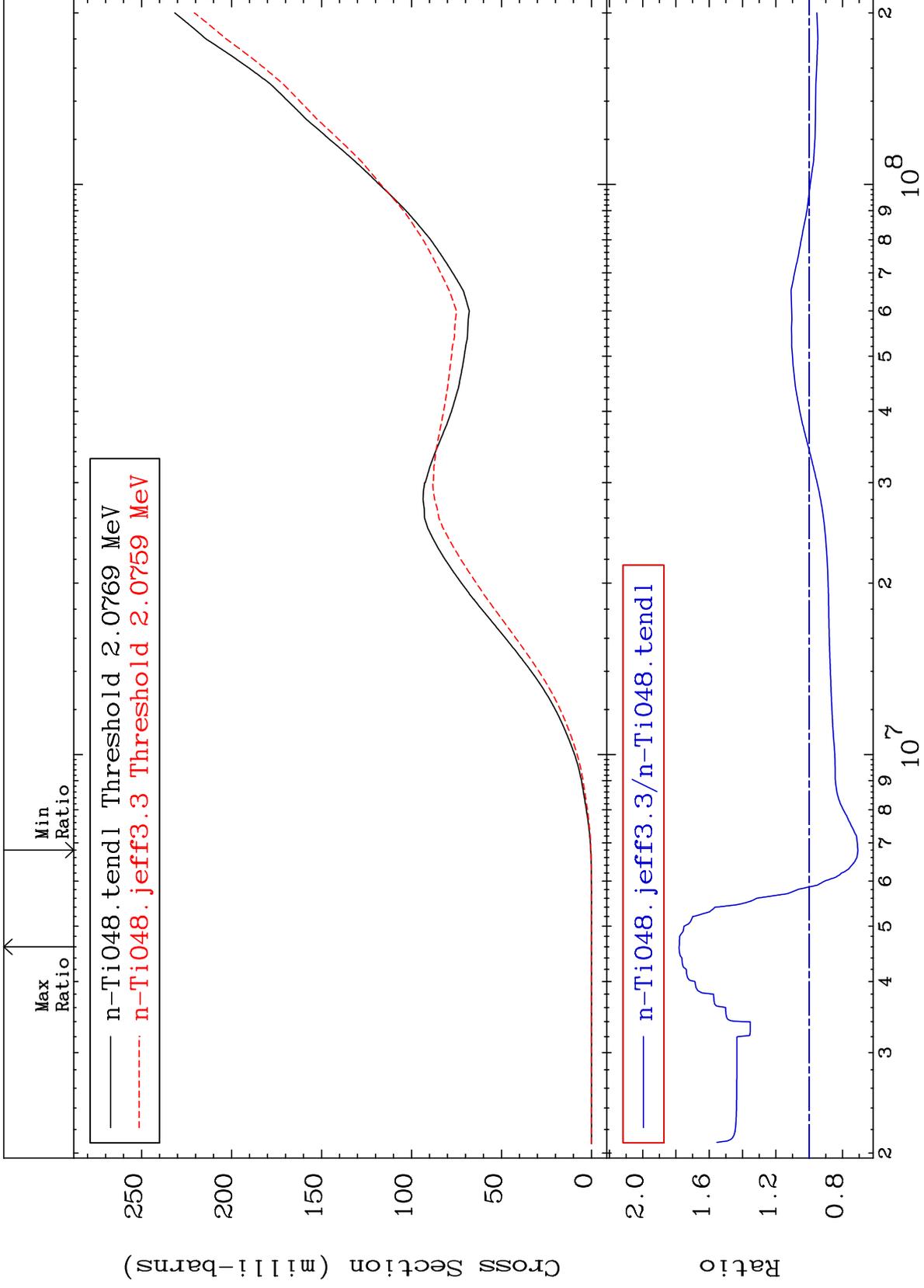
22-Ti-48  
-9.791 To 0.319 %



MAT 2231

He-4 Production  
Cross Section

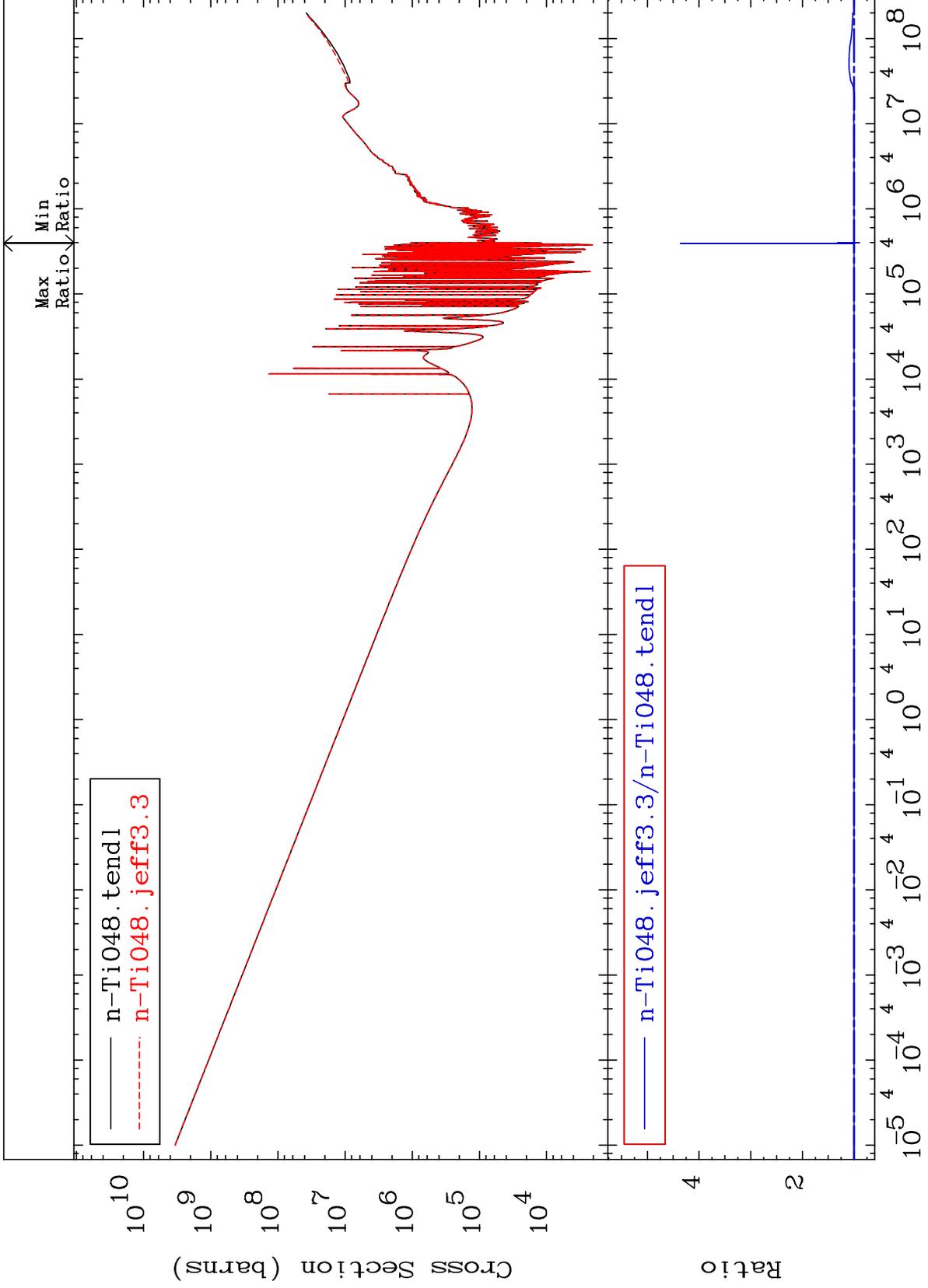
$^{22}\text{Ti}-48$   
-29.29 To 78.16 %



MAT 2231

Kerma total (eV-barns)  
Cross Section

22-Ti-48  
-10.40 To 336.4 %



64

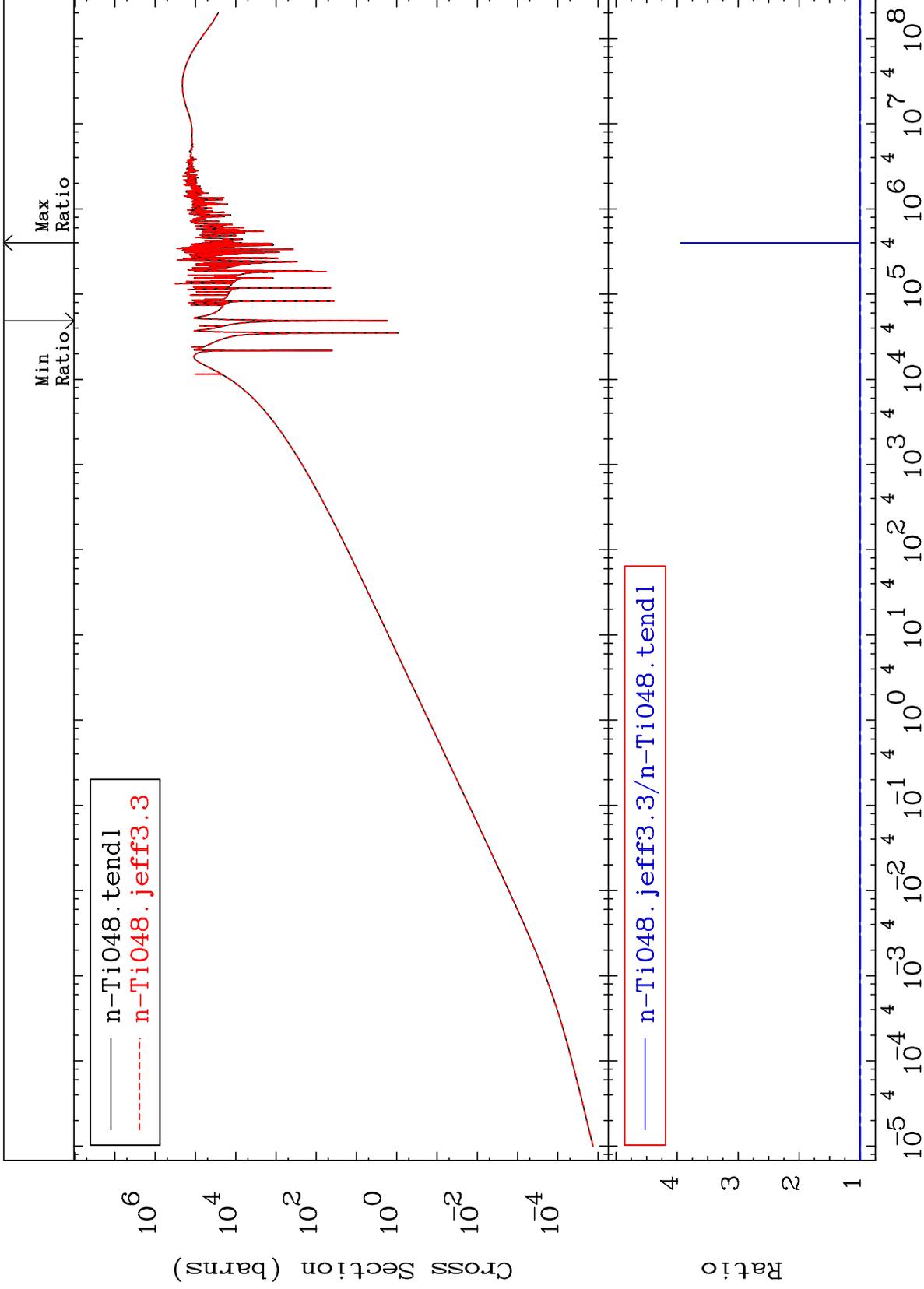
Incident Energy (eV)

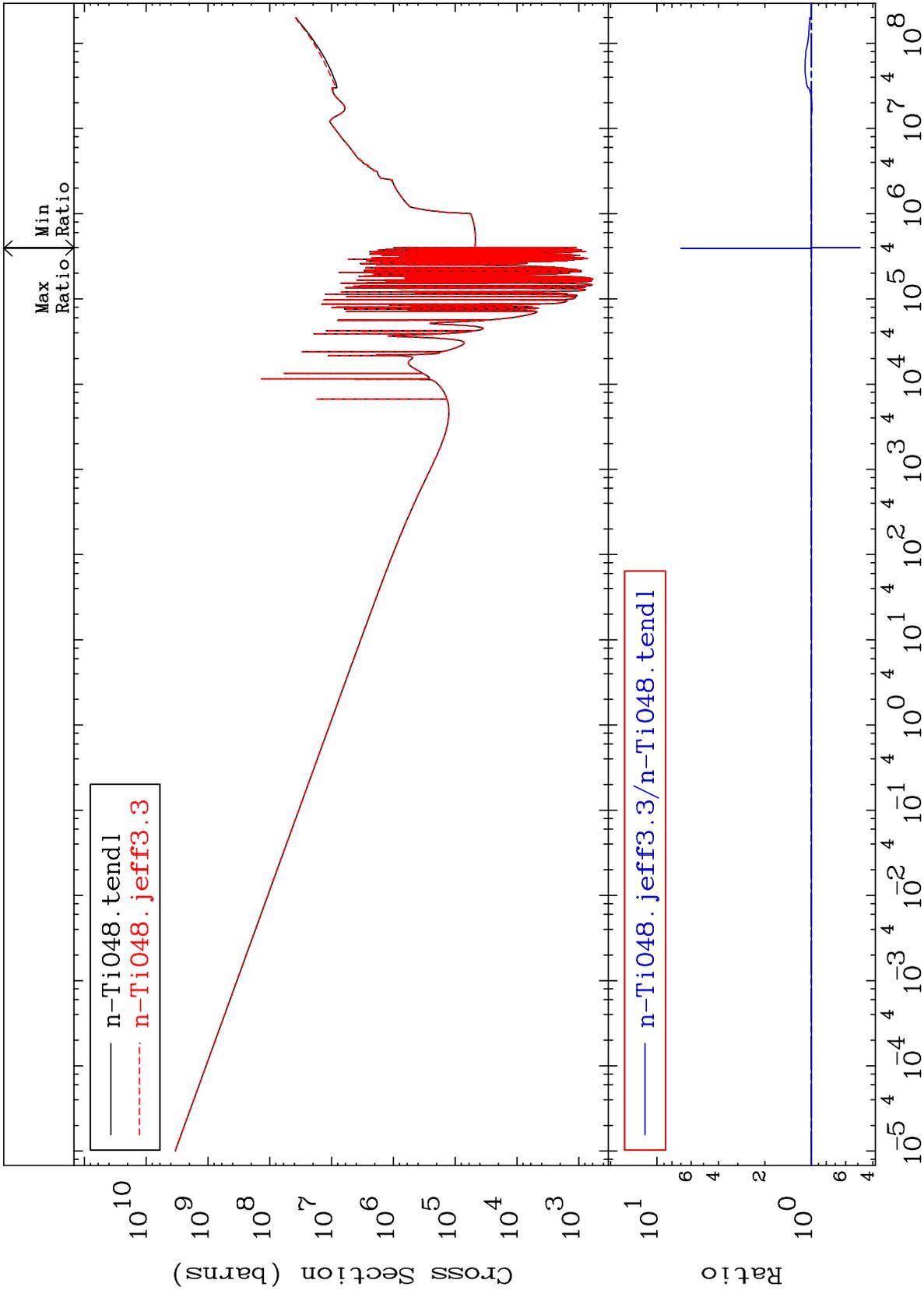
22-Ti-48

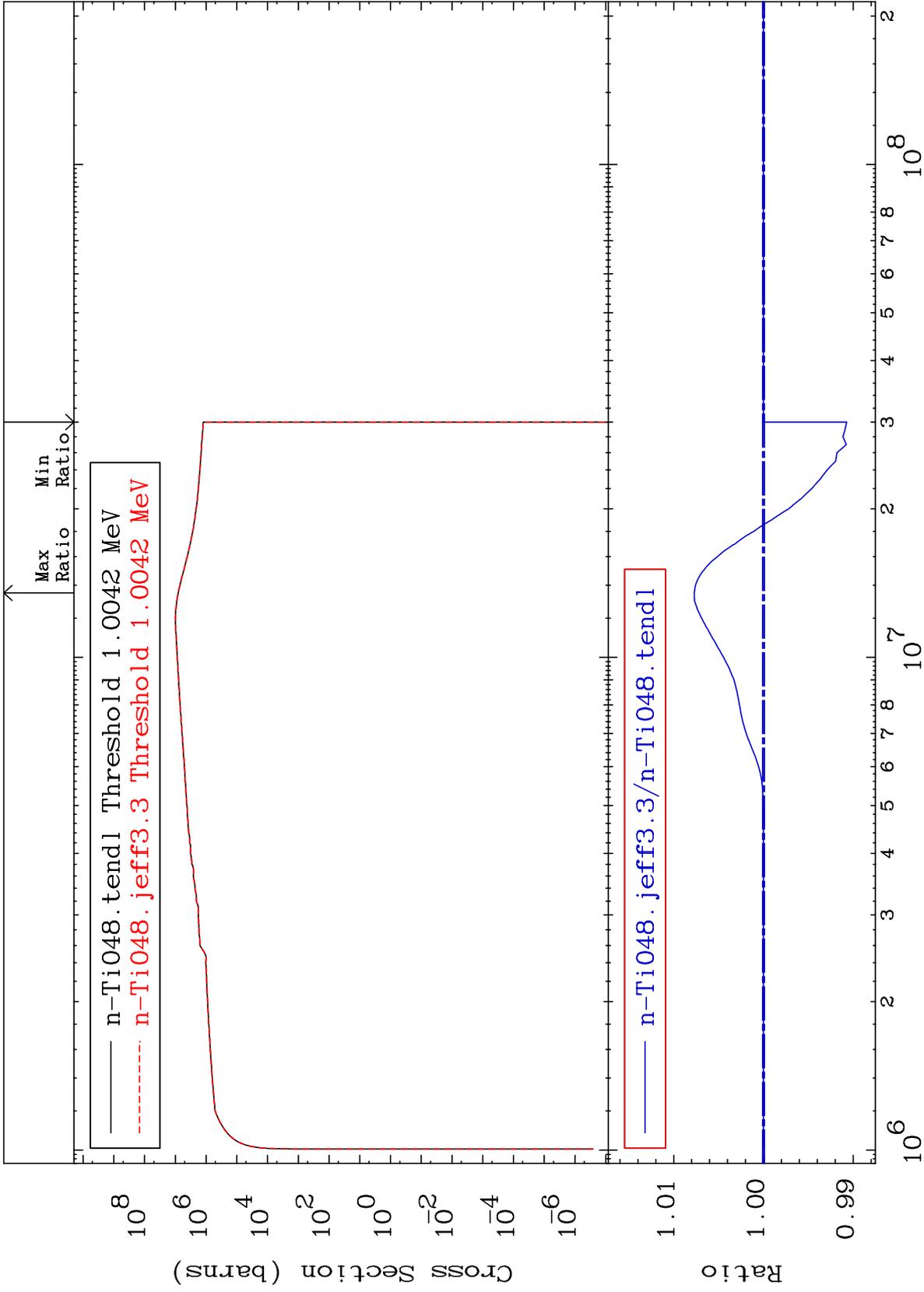
MAT 2231

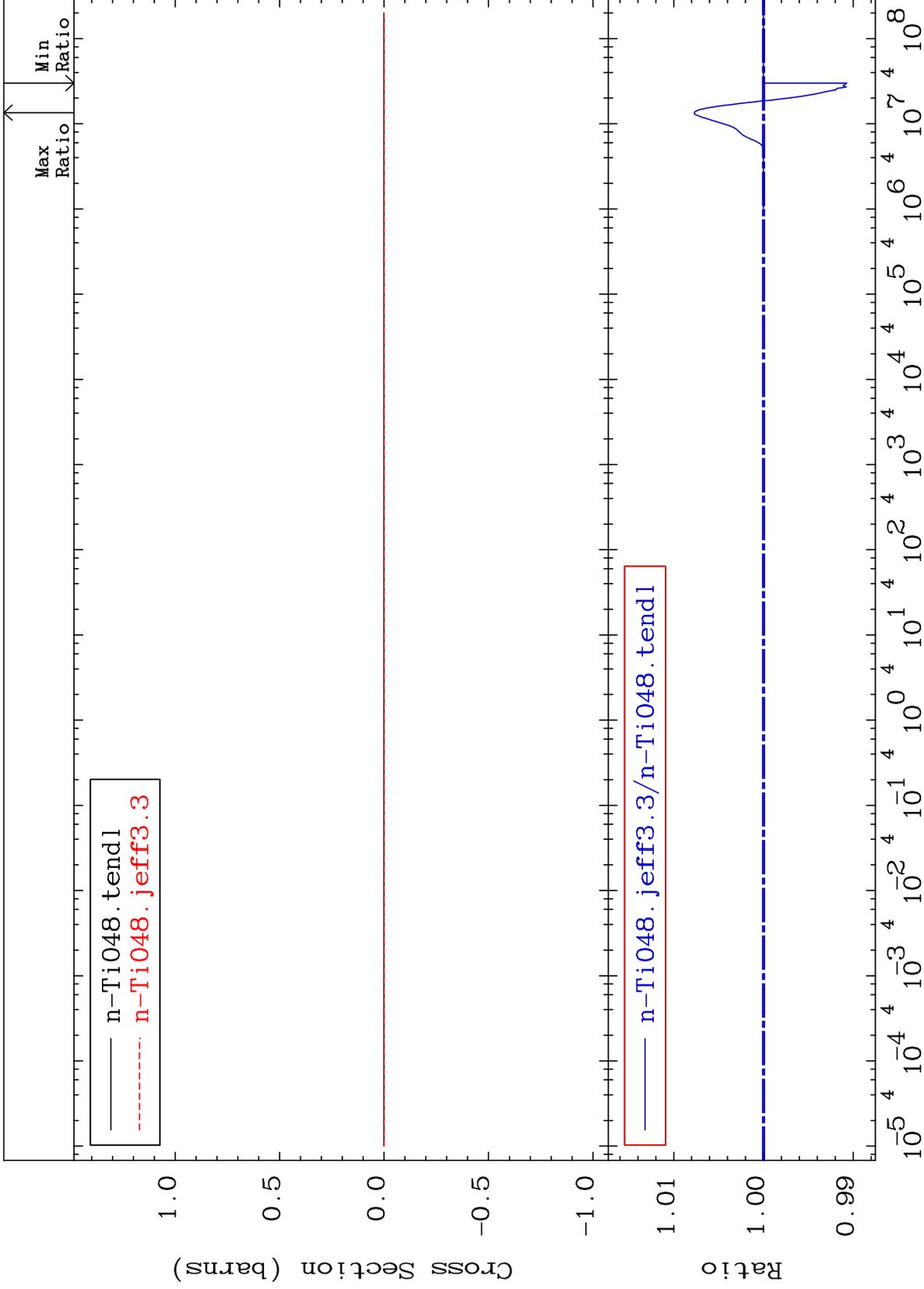
Kerma elastic  
Cross Section

22-Ti-48  
-0.084 To 294.0 %





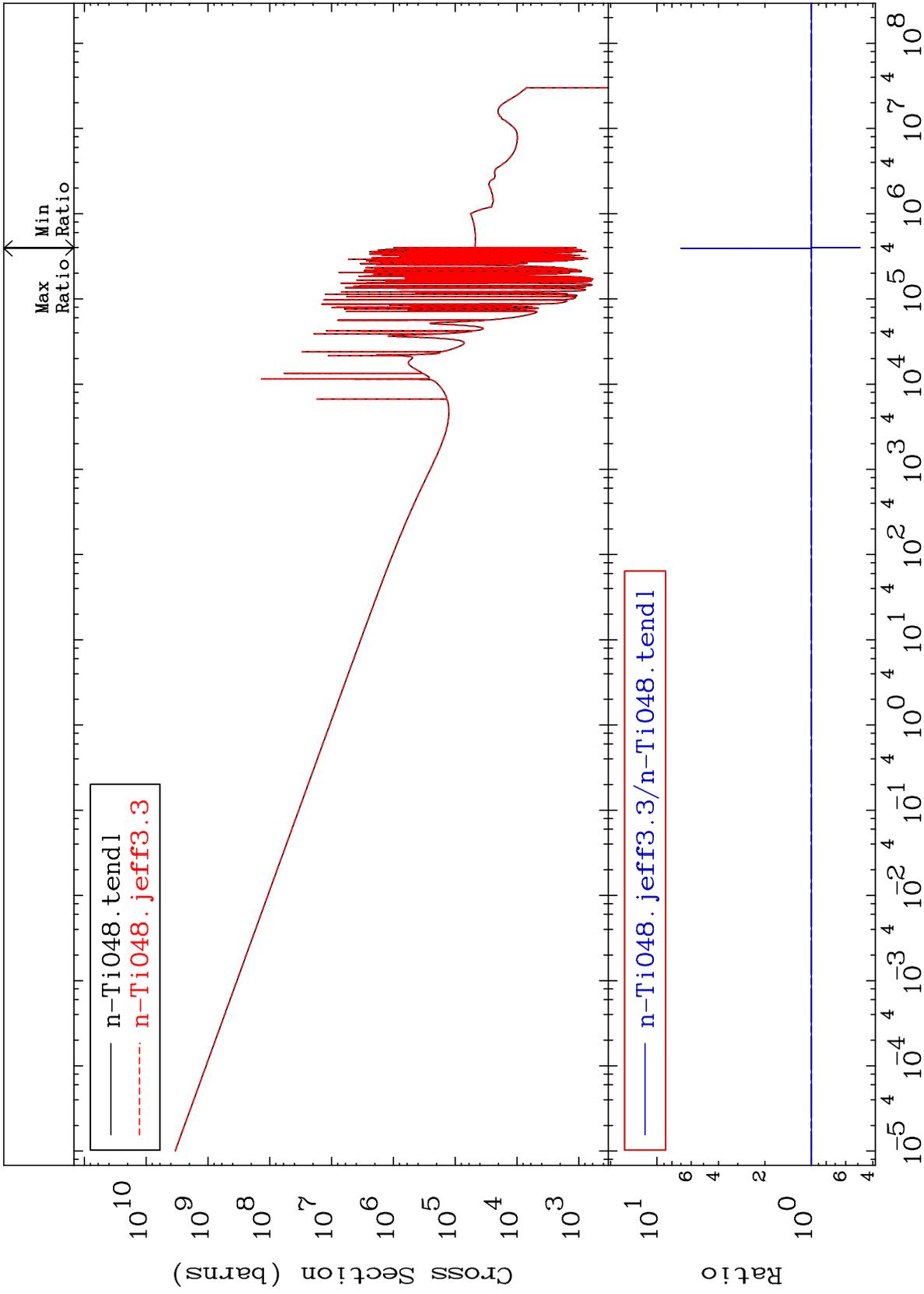




MAT 2231

Kerma capture (mt102)  
Cross Section

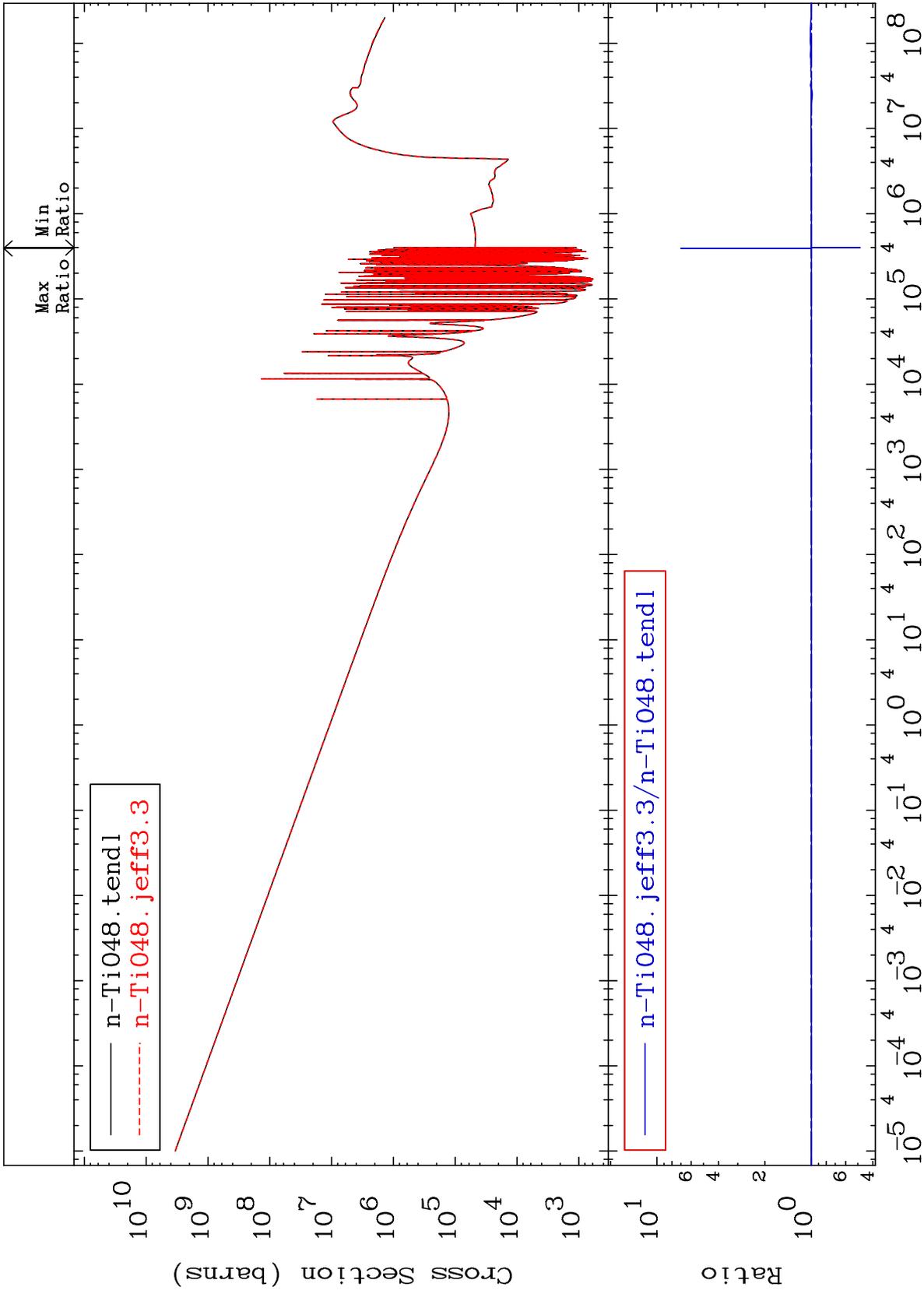
22-Ti-48  
-51.63 To 601.4 %



MAT 2231

Total photon (eV-barns)  
Cross Section

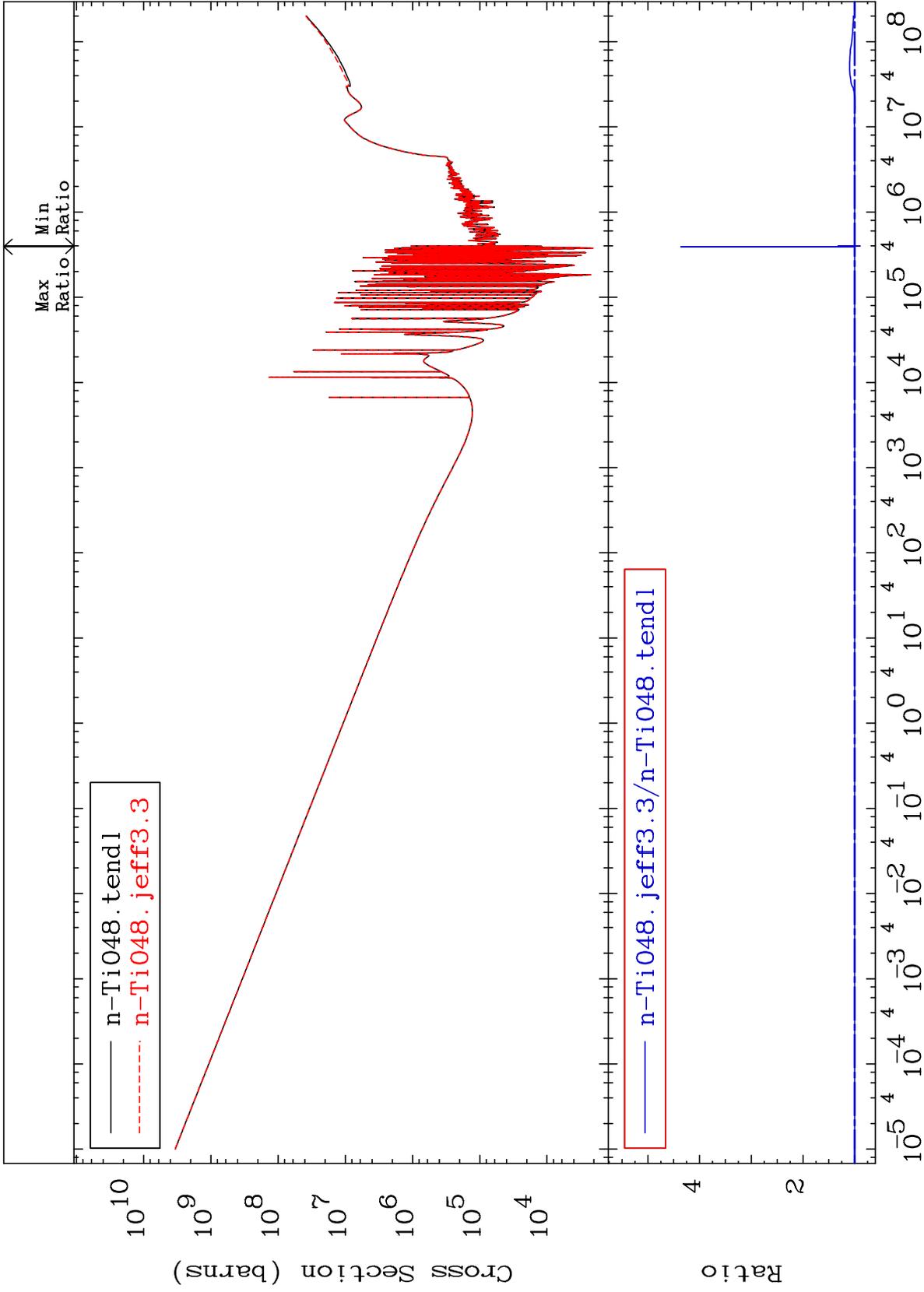
22-Ti-48  
-51.63 To 601.4 %



70

Incident Energy (eV)

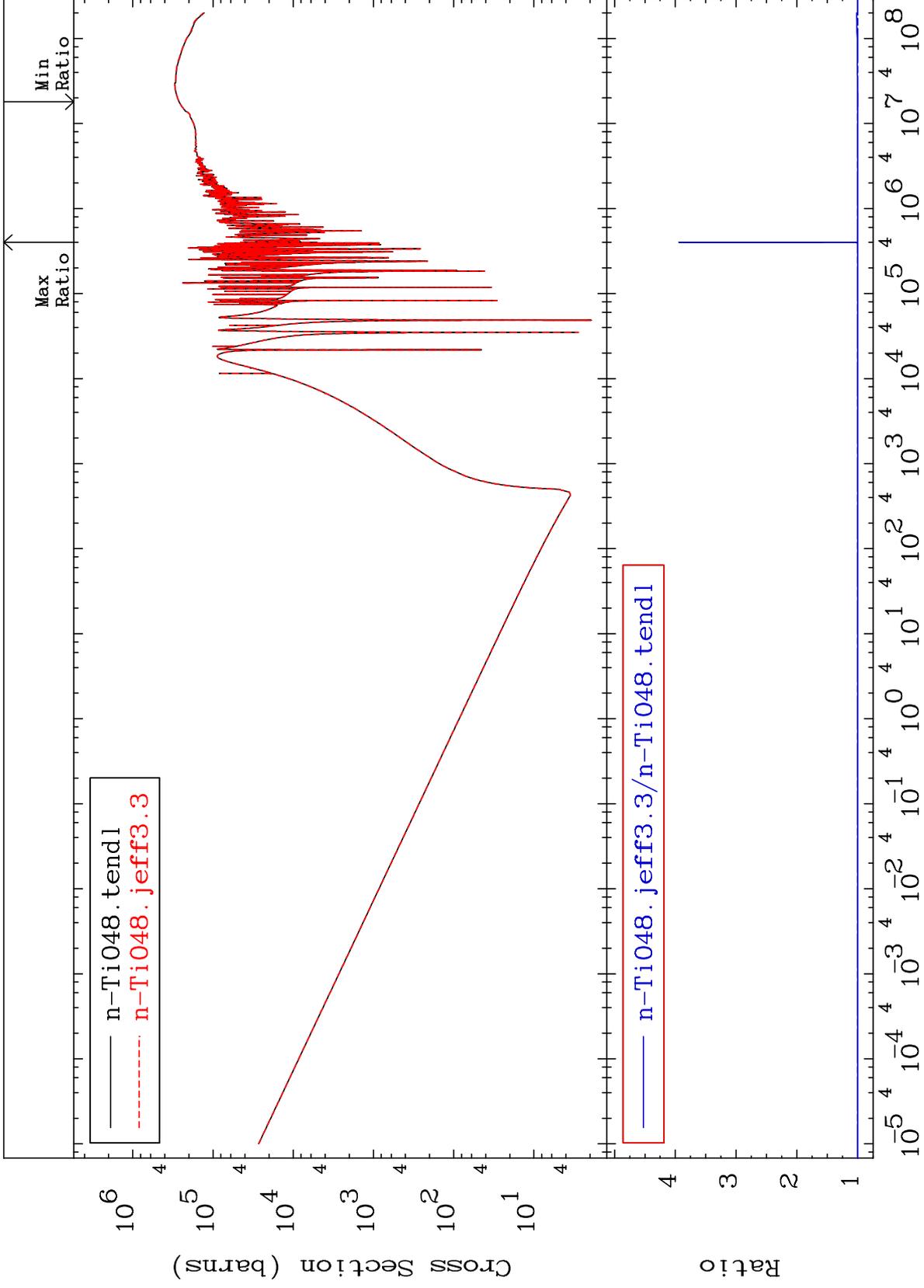
22-Ti-48



MAT 2231

Dpa total (eV-barns)  
Cross Section

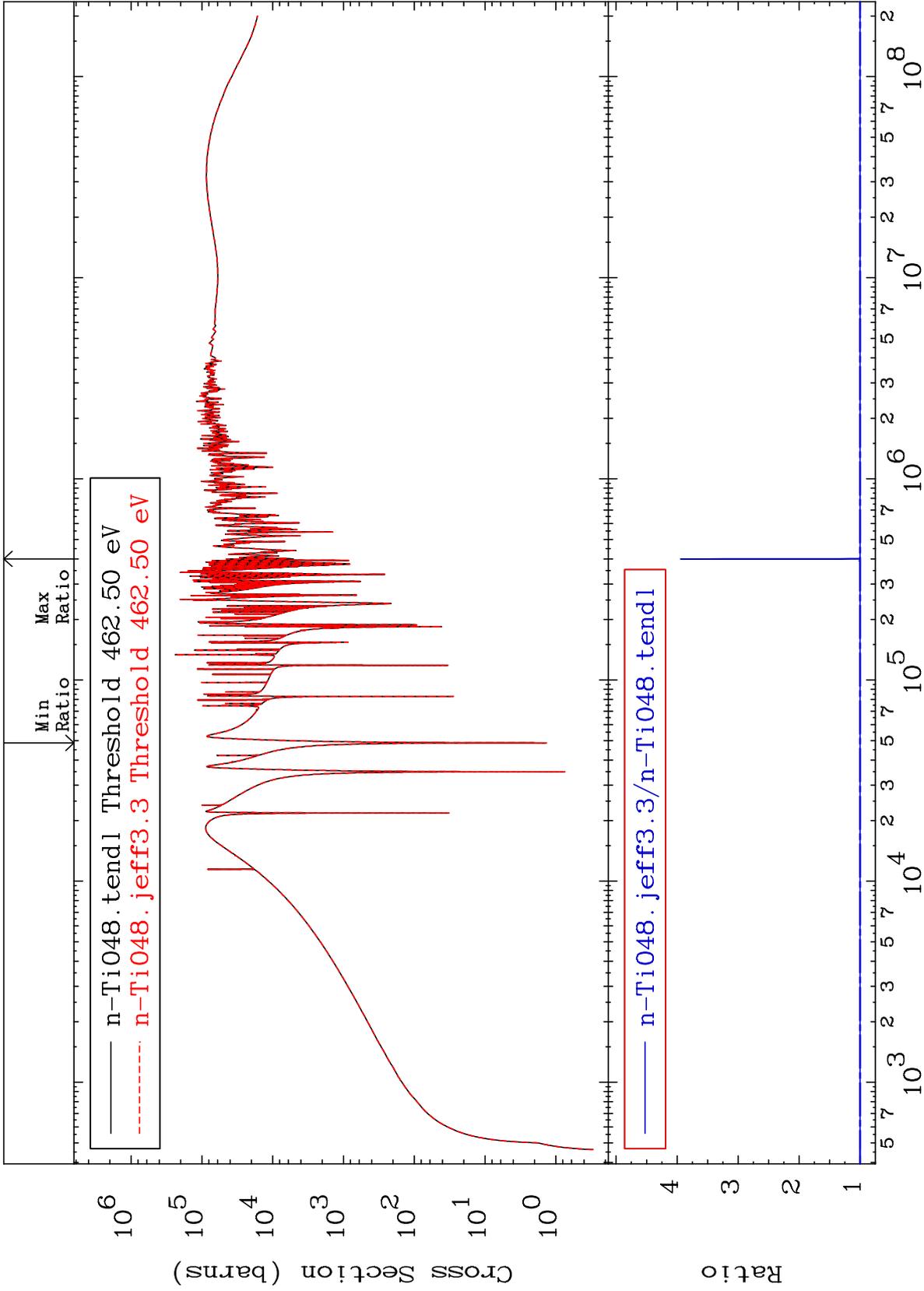
22-Ti-48  
-0.247 To 293.9 %

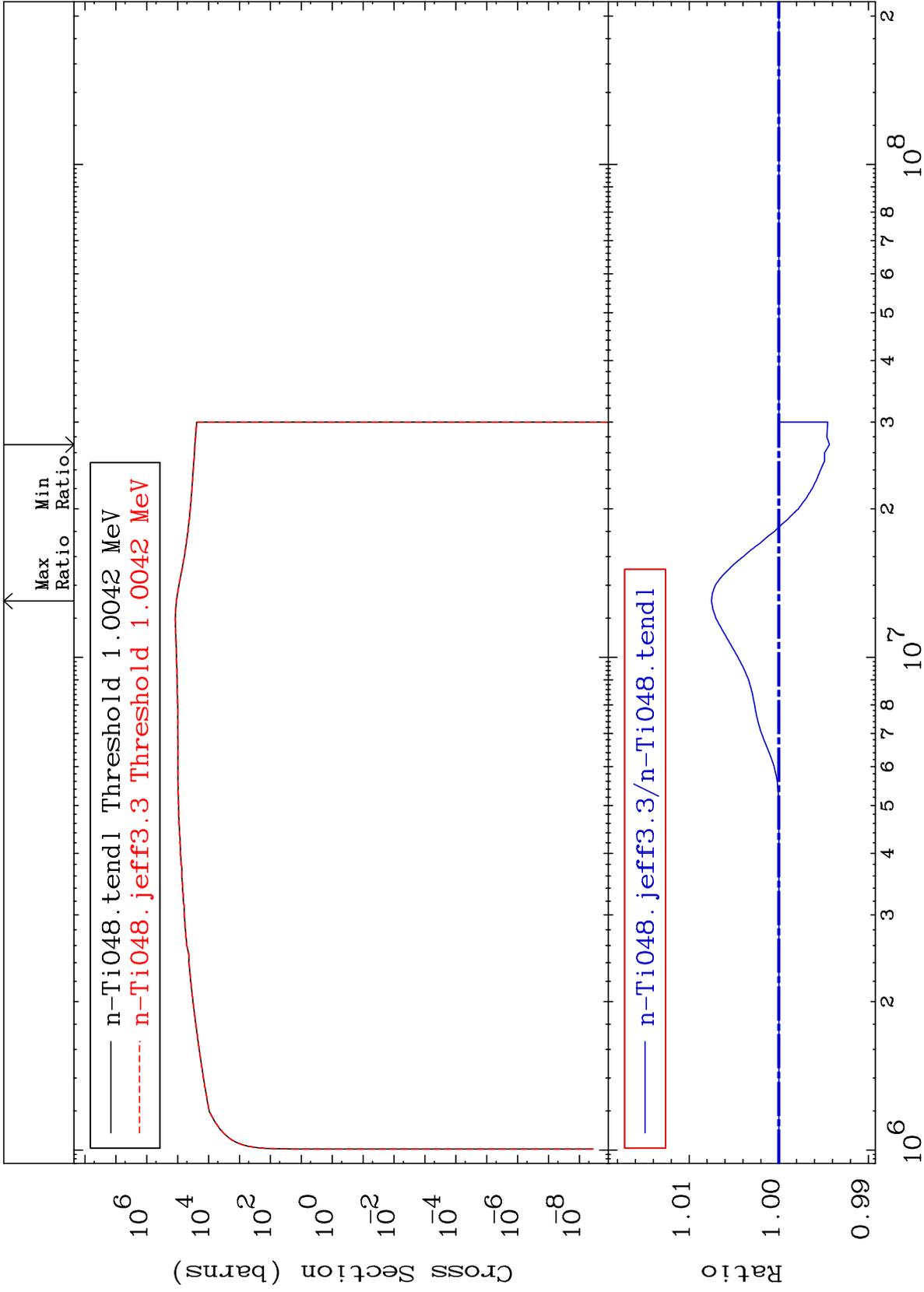


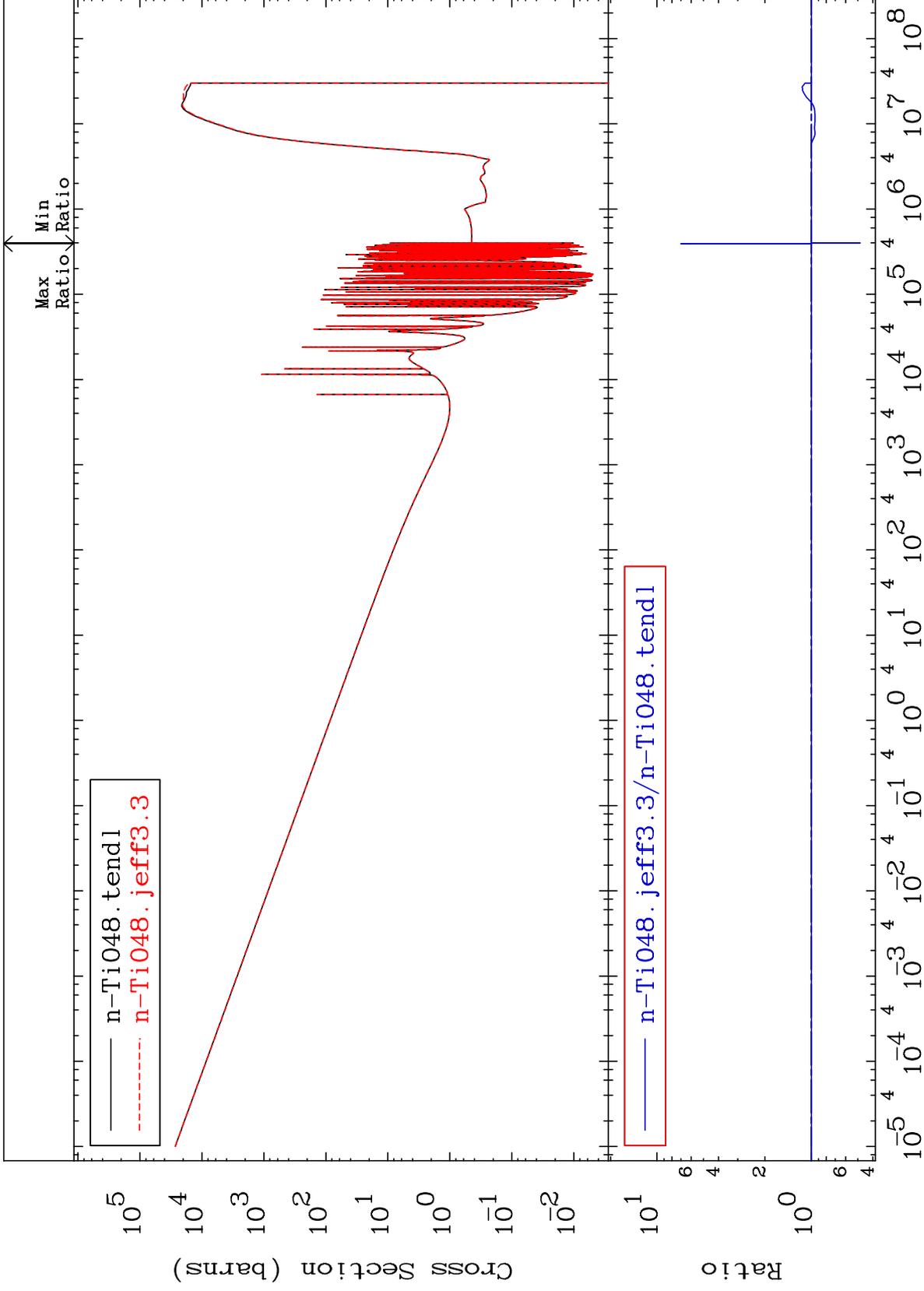
72

Incident Energy (eV)

22-Ti-48







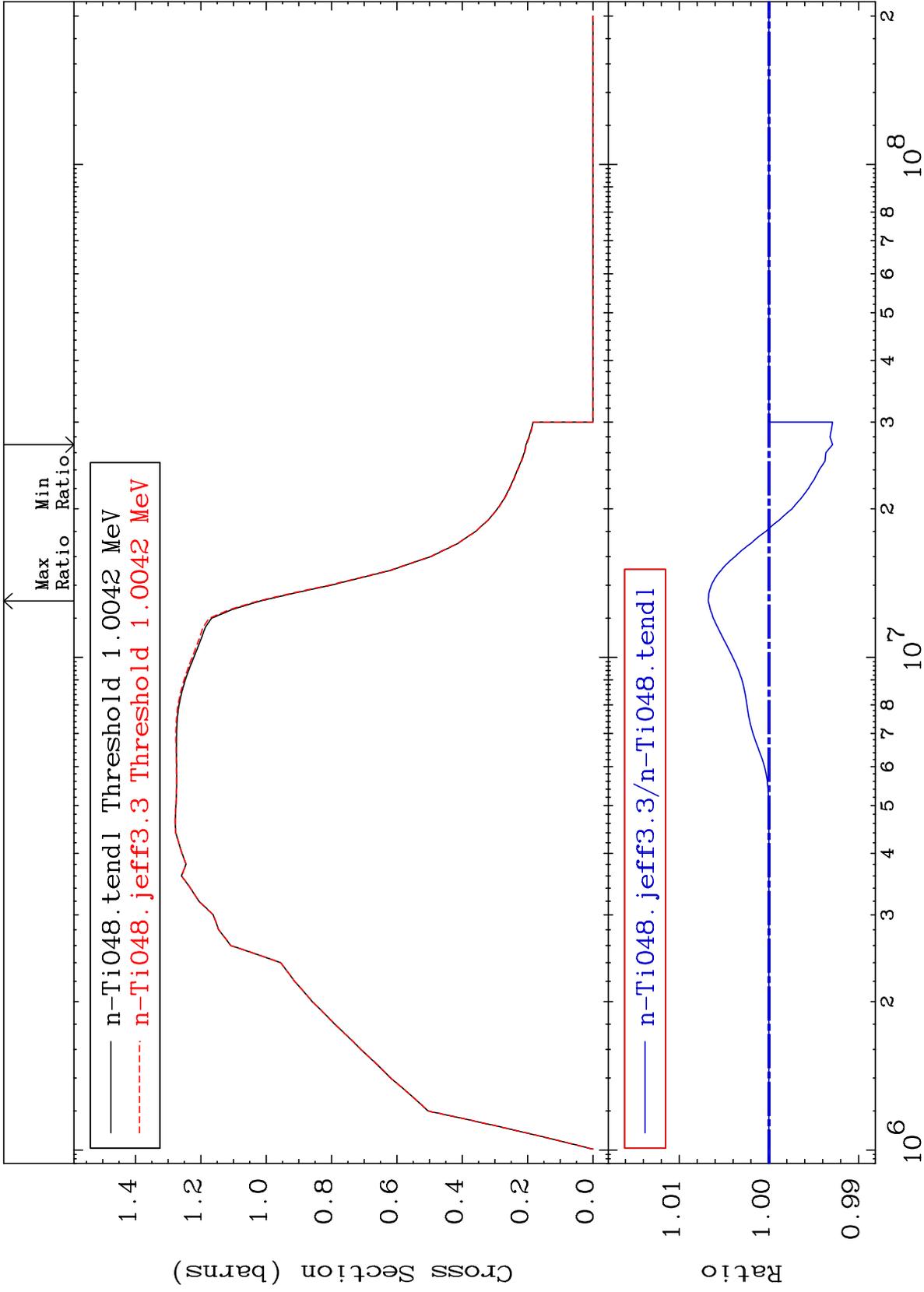
MAT 2231

Inelastic:22-Ti-48g

22-Ti-48

Radionuclide Production Cross Section

-0.710 To 0.676 %



76

Incident Energy (eV)

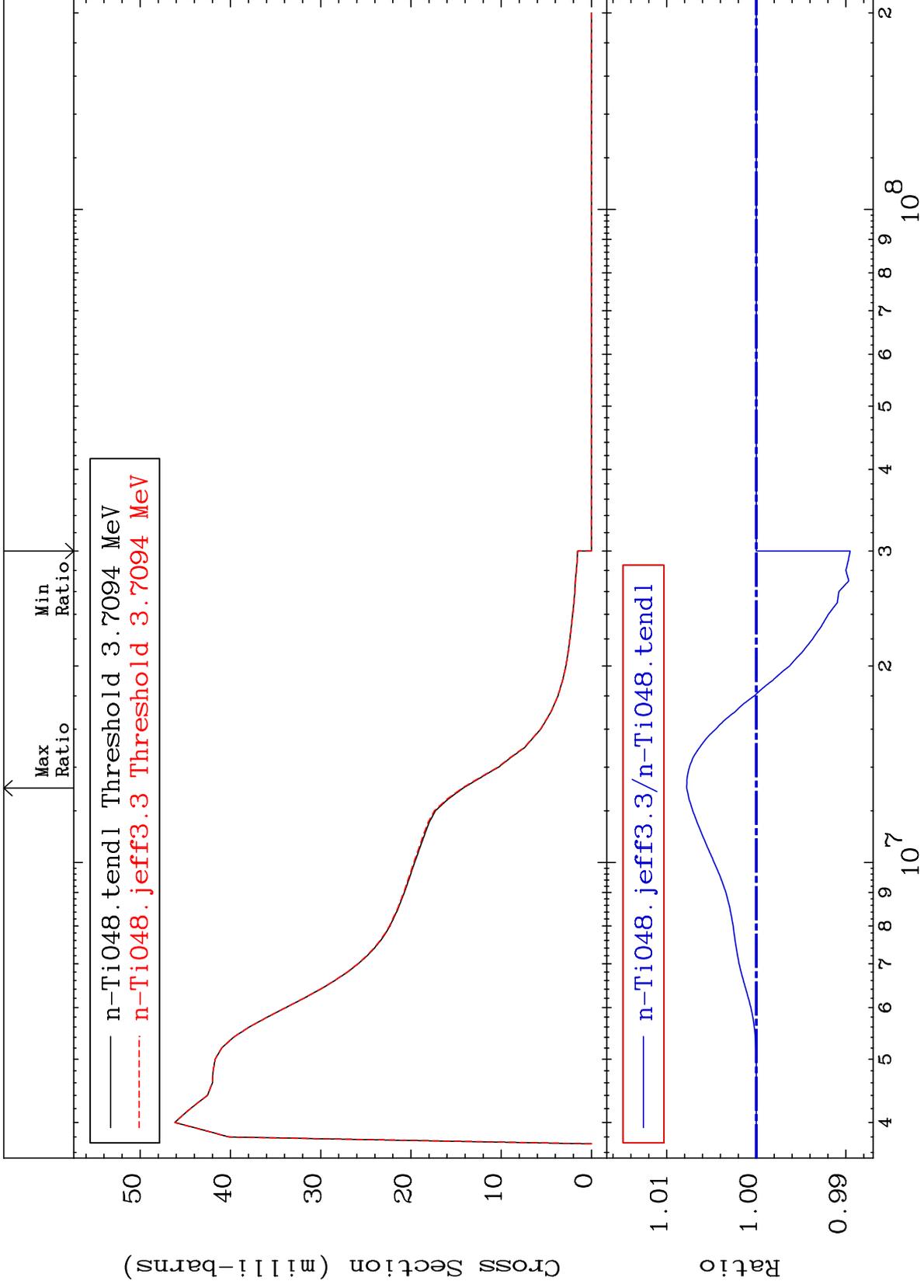
22-Ti-48

MAT 2231

Inelastic:22-Ti-48m14

22-Ti-48

Radionuclide Production Cross Section -1.050 To 0.776 %



77

Incident Energy (eV)

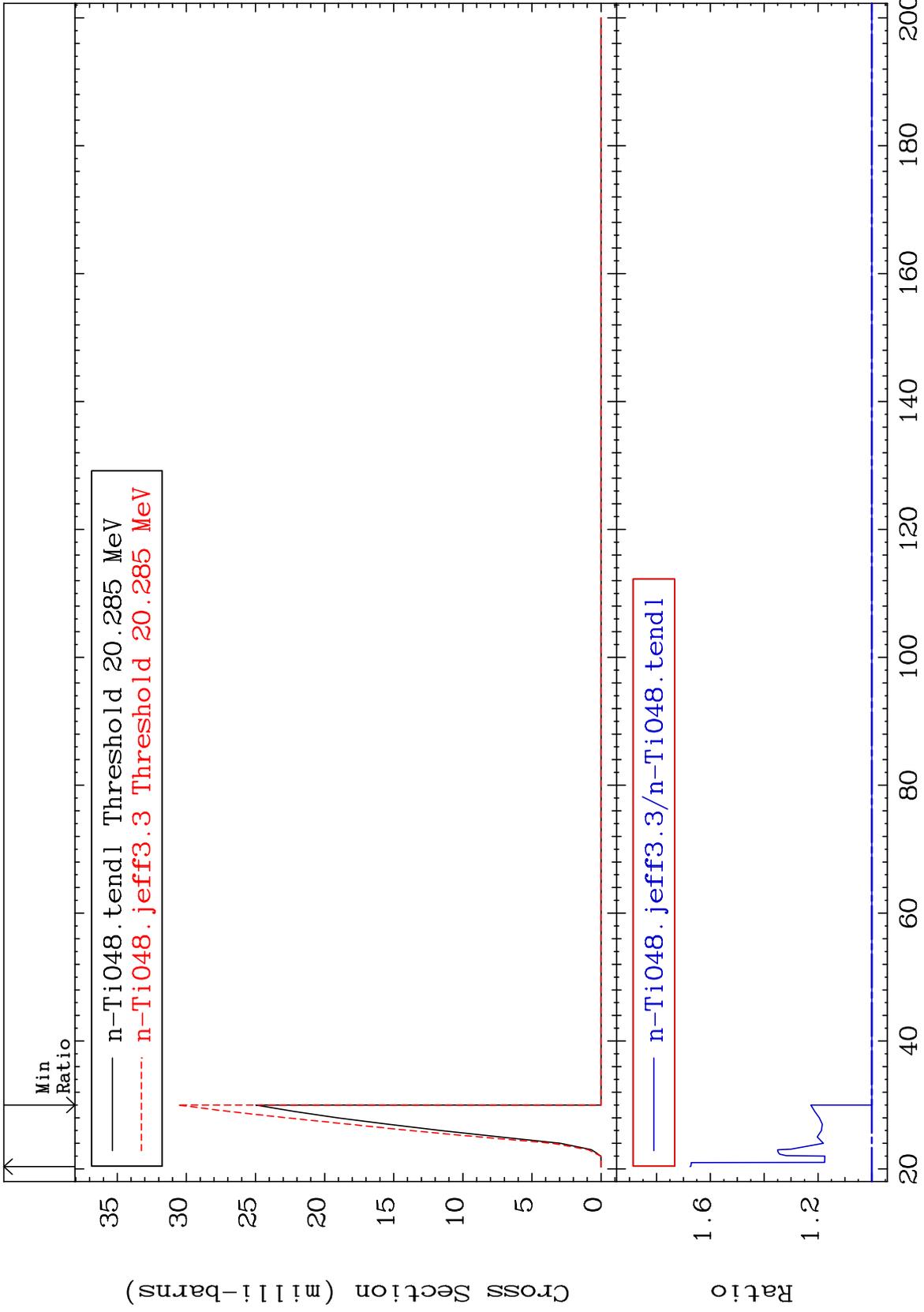
22-Ti-48

MAT 2231

(n, n') d:21-Sc-46g

<sup>22</sup>Ti-48

Radionuclide Production Cross Section 0.000 To 67.53 %



78

Incident Energy (MeV)

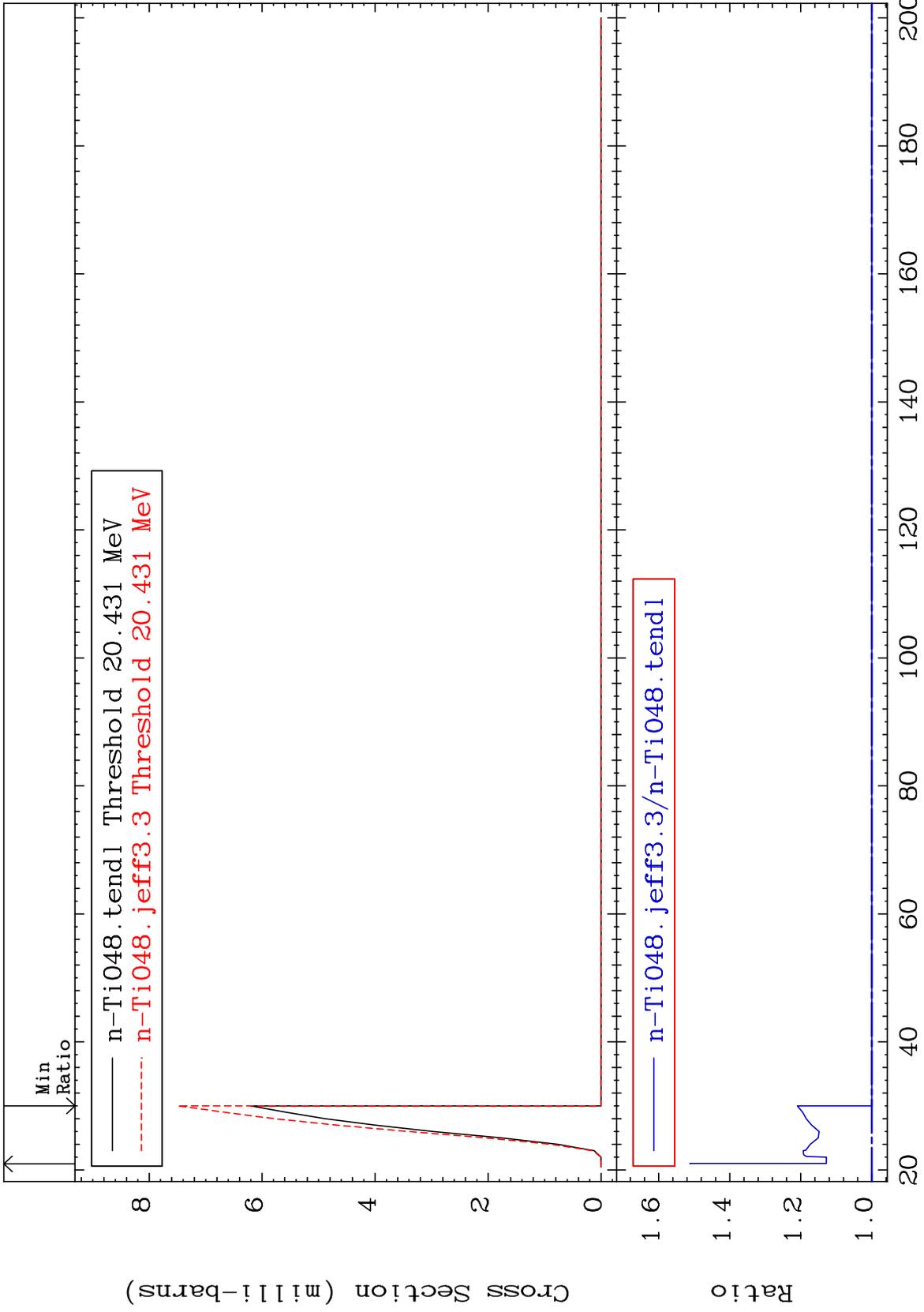
<sup>22</sup>Ti-48

MAT 2231

(n, n') d:21-Sc-46m2

22-Ti-48

Radionuclide Production Cross Section 0.000 To 51.17 %



79

Incident Energy (MeV)

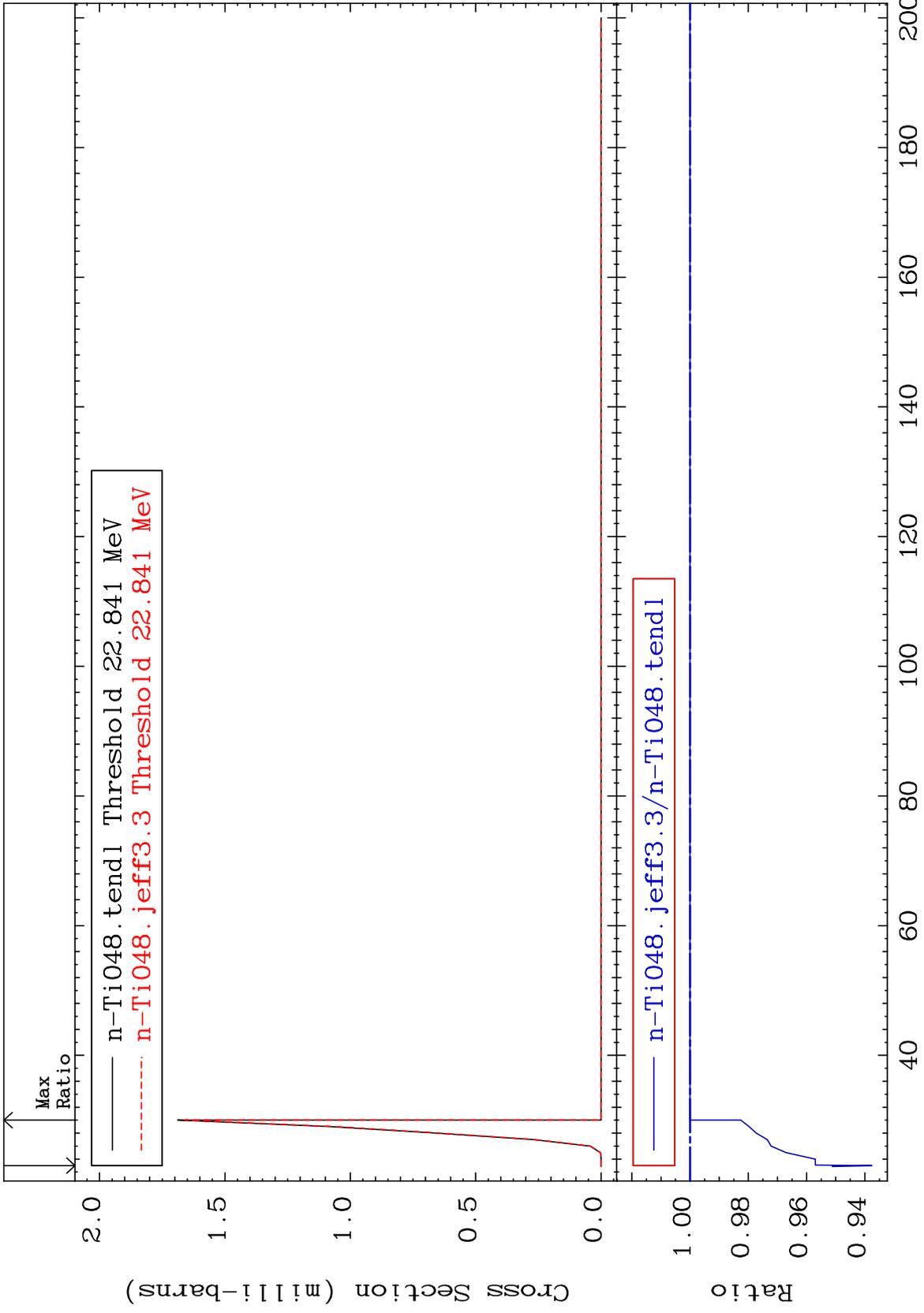
22-Ti-48

MAT 2231

(n, n') t:21-Sc-45g

22-Ti-48

Radionuclide Production Cross Section -6.240 To 0.000 %



80

Incident Energy (MeV)

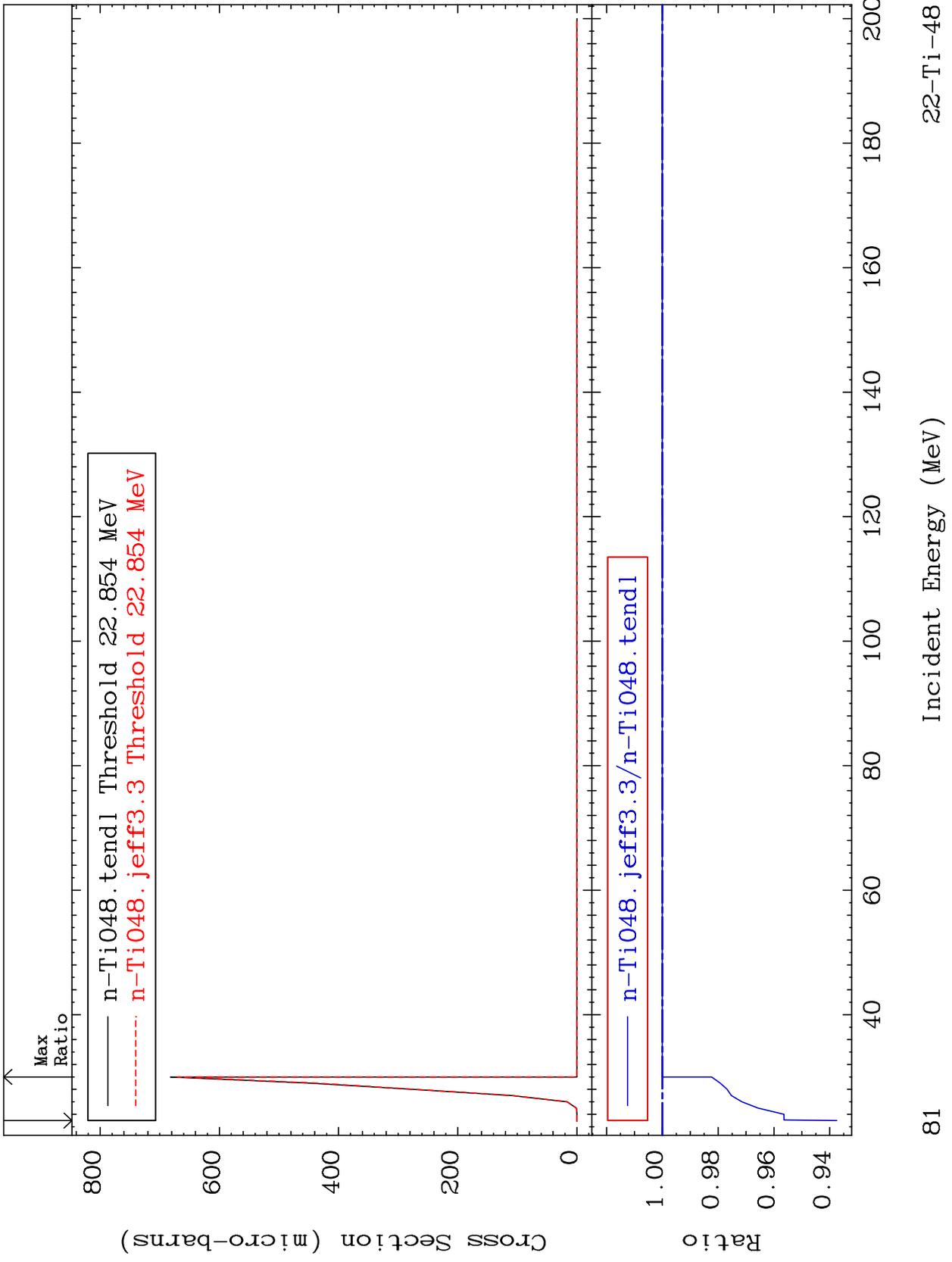
22-Ti-48

MAT 2231

(n, n') t:21-Sc-45m1

22-Ti-48

Radionuclide Production Cross Section -6.253 To 0.000 %



81

Incident Energy (MeV)

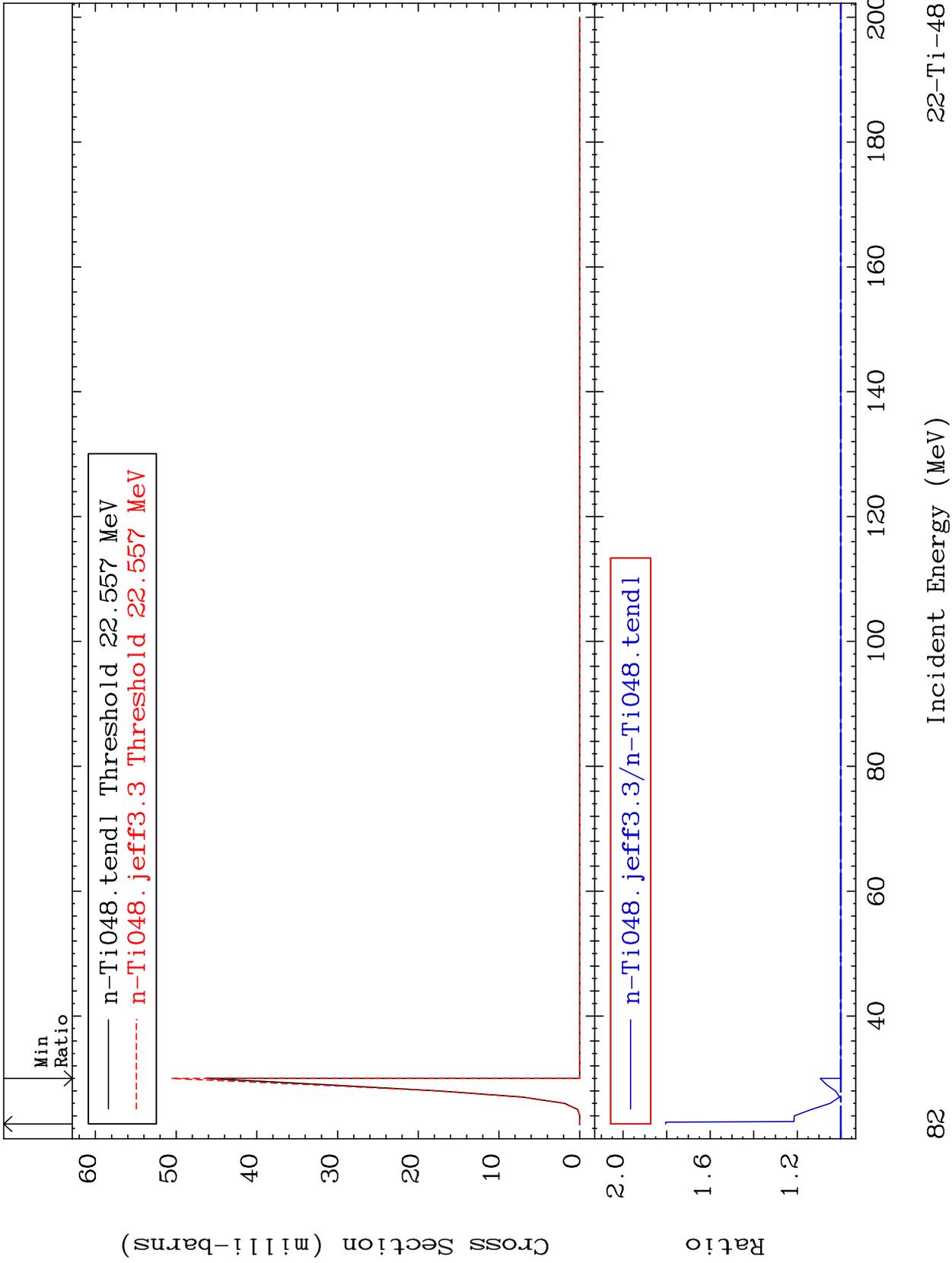
22-Ti-48

MAT 2231

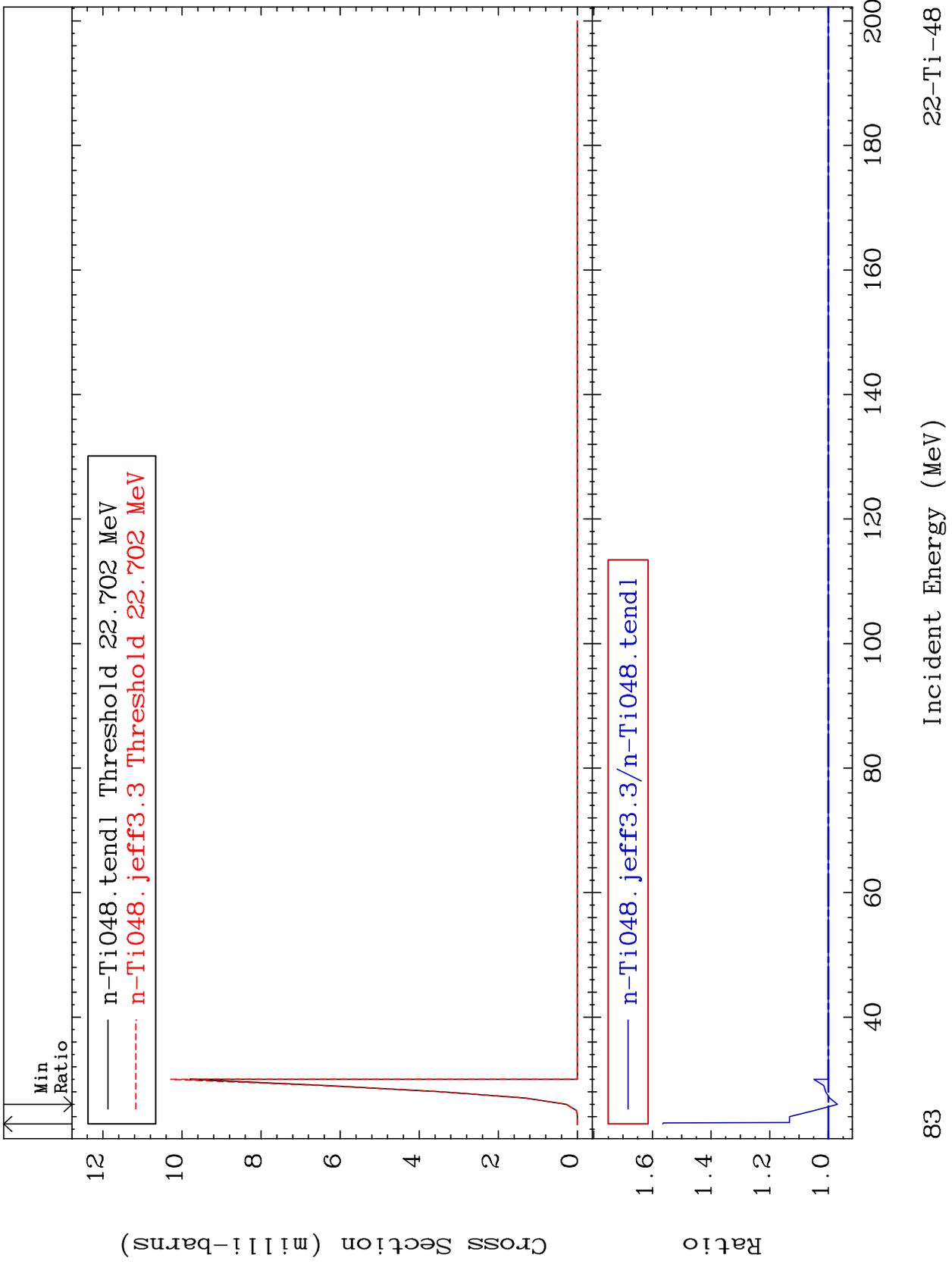
(n,2n) p:21-Sc-46g

22-Ti-48

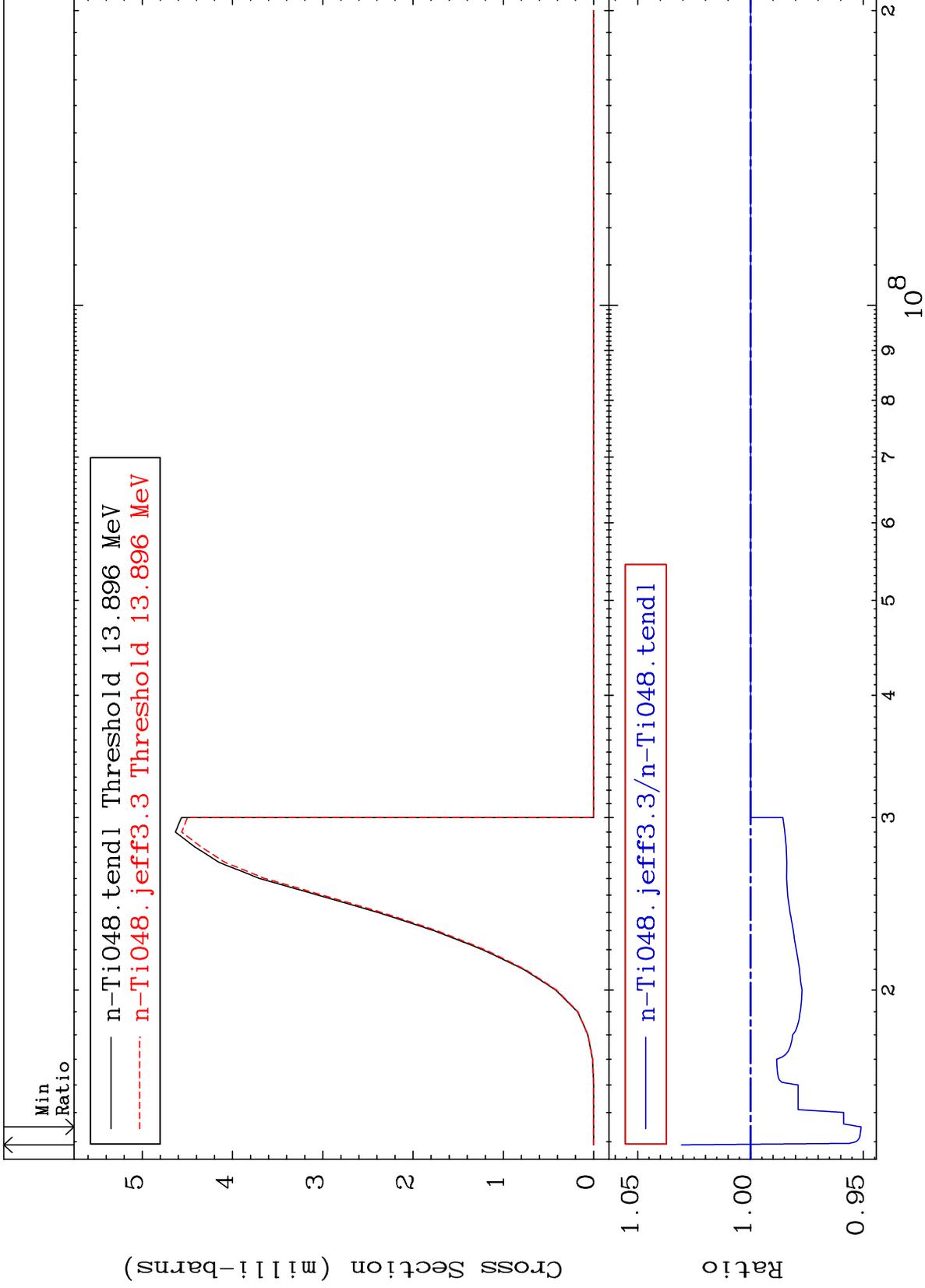
Radionuclide Production Cross Section 0.000 To 80.51 %



Radionuclide Production Cross Section -3.090 To 56.42 %



Radionuclide Production Cross Section -4.897 To 3.061 %



Radionuclide Production Cross Section -4.590 To 0.000 %

