

Program Complot  
(Version 2018-1)

by

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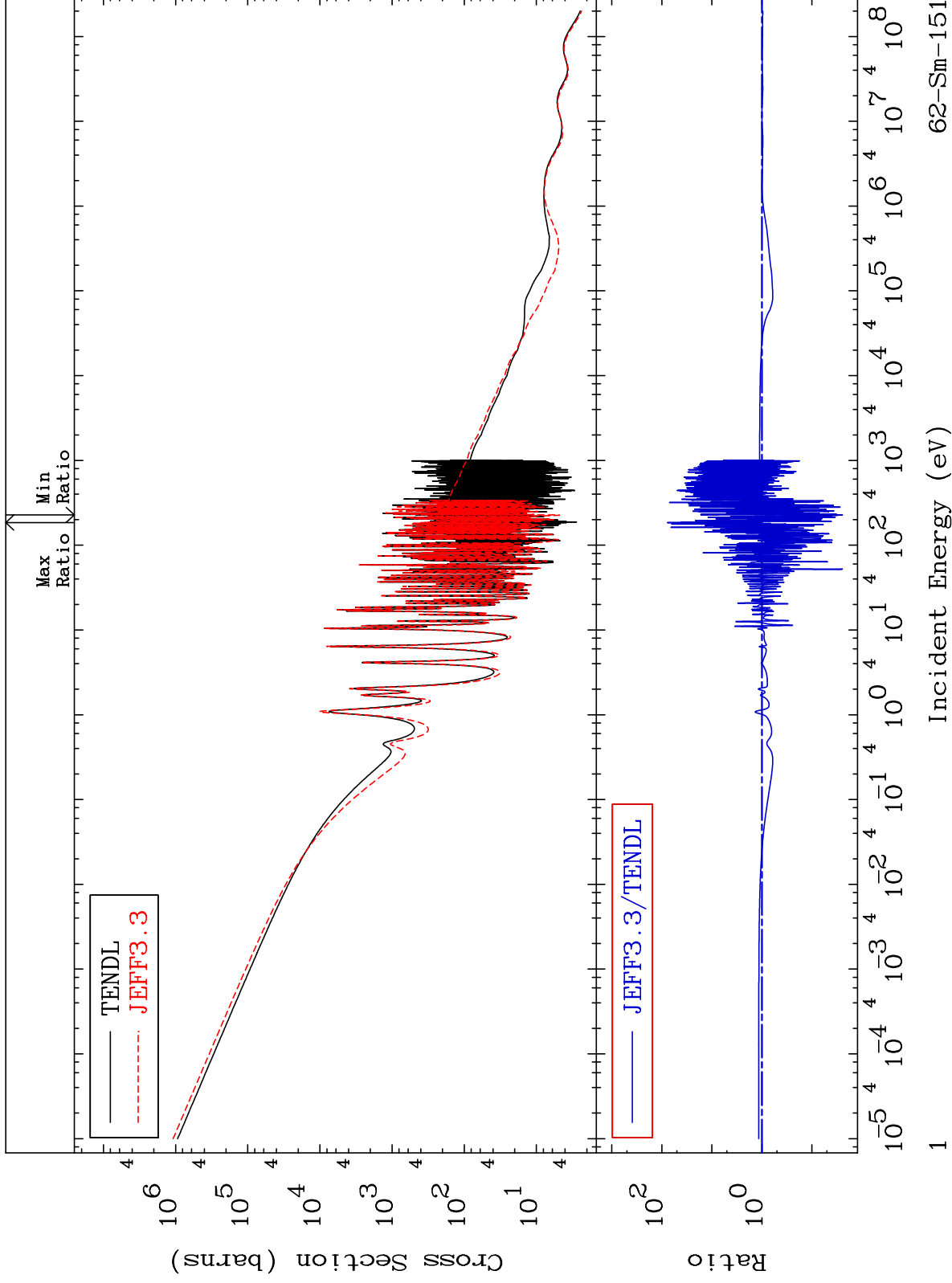
Press Mouse Button to Start

MAT 6246

Total  
Cross Section

62-Sm-151

-97.57 To 7671. %



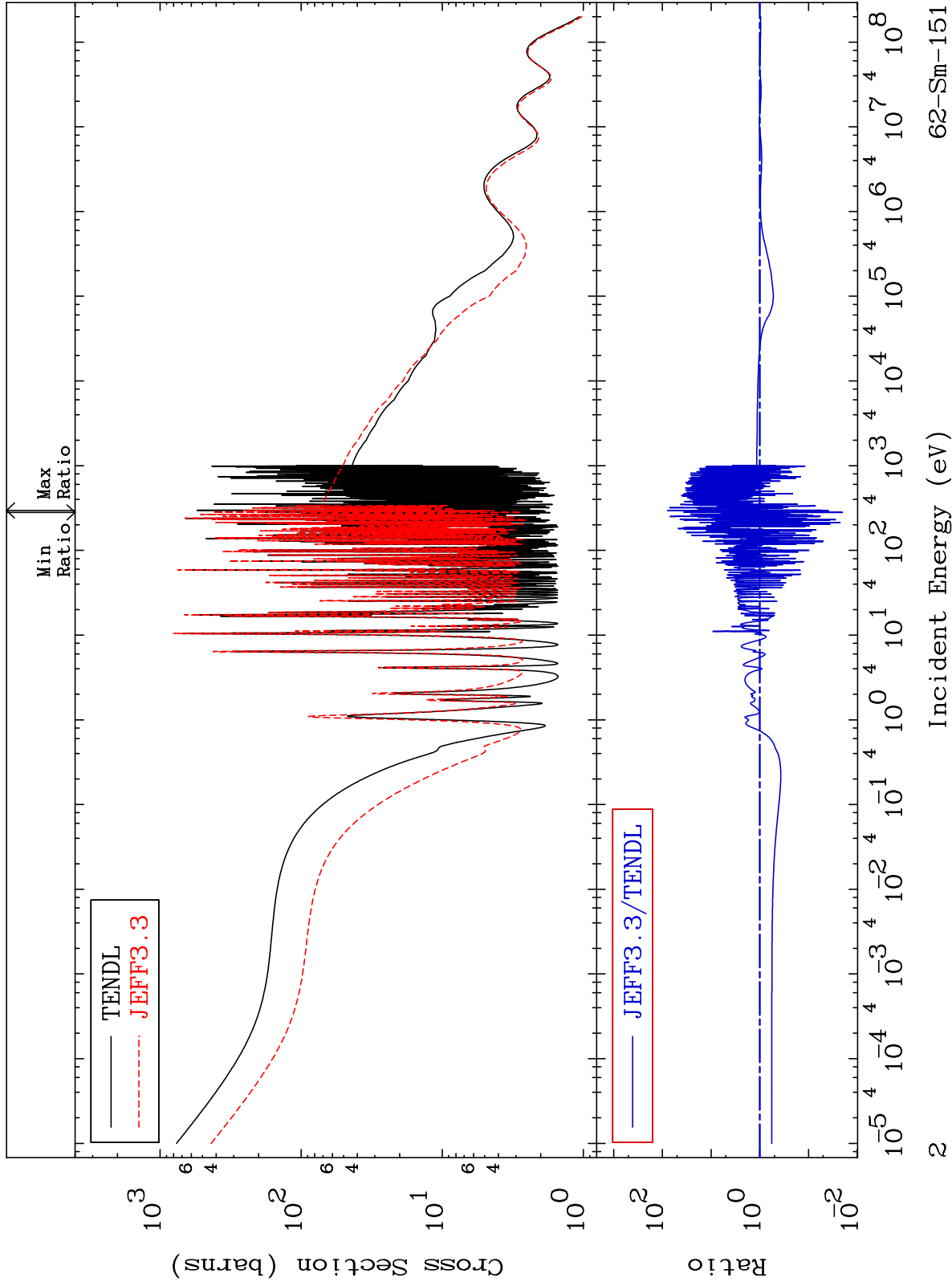
62-Sm-151

MAT 6246

62-Sm-151

-98.01 To 7747. %

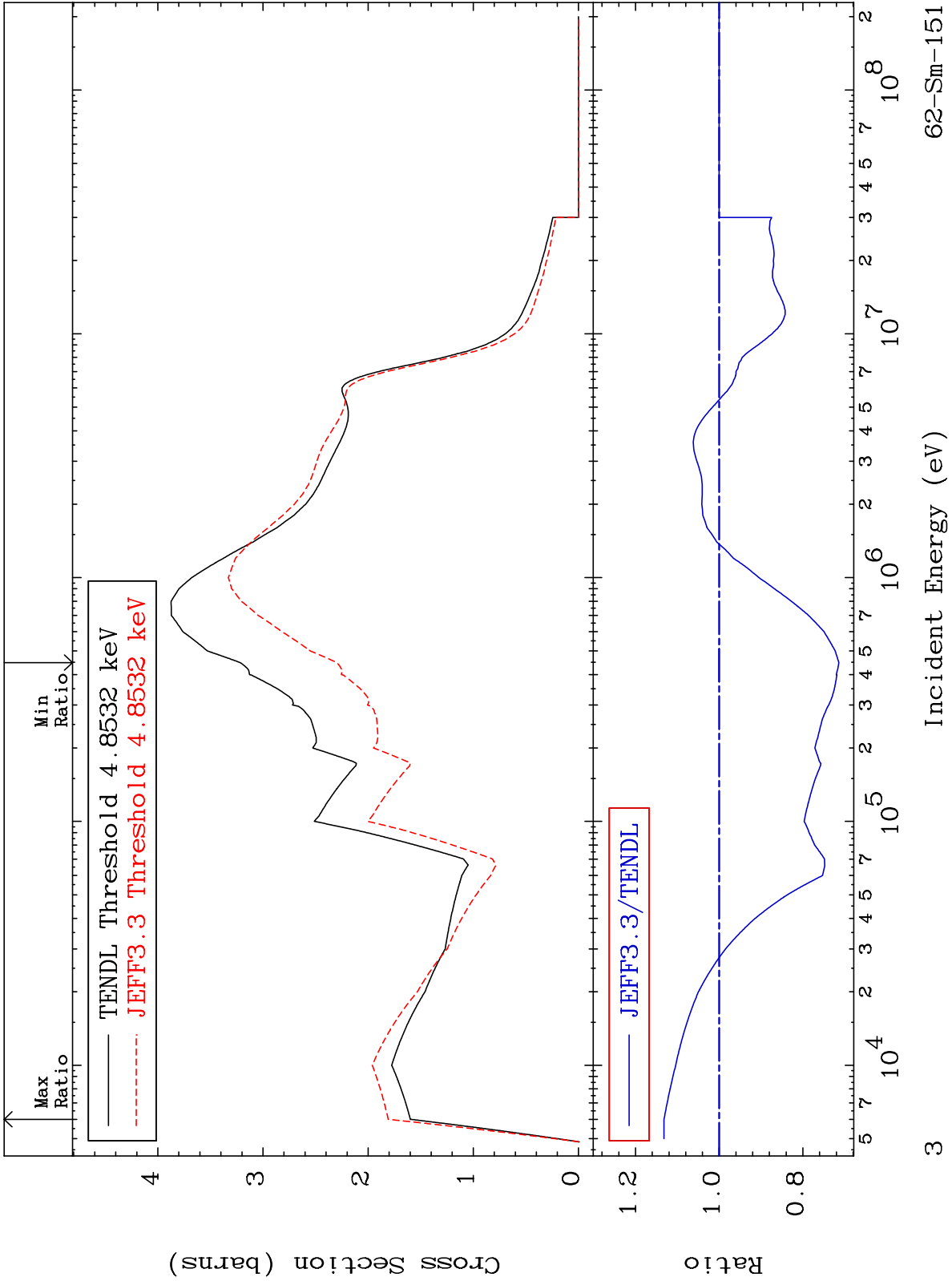
Elastic  
Cross Section



62-Sm-151

2

MAT 6246 Inelastic Cross Section 62-Sm-151 -28.59 To 13.19 %

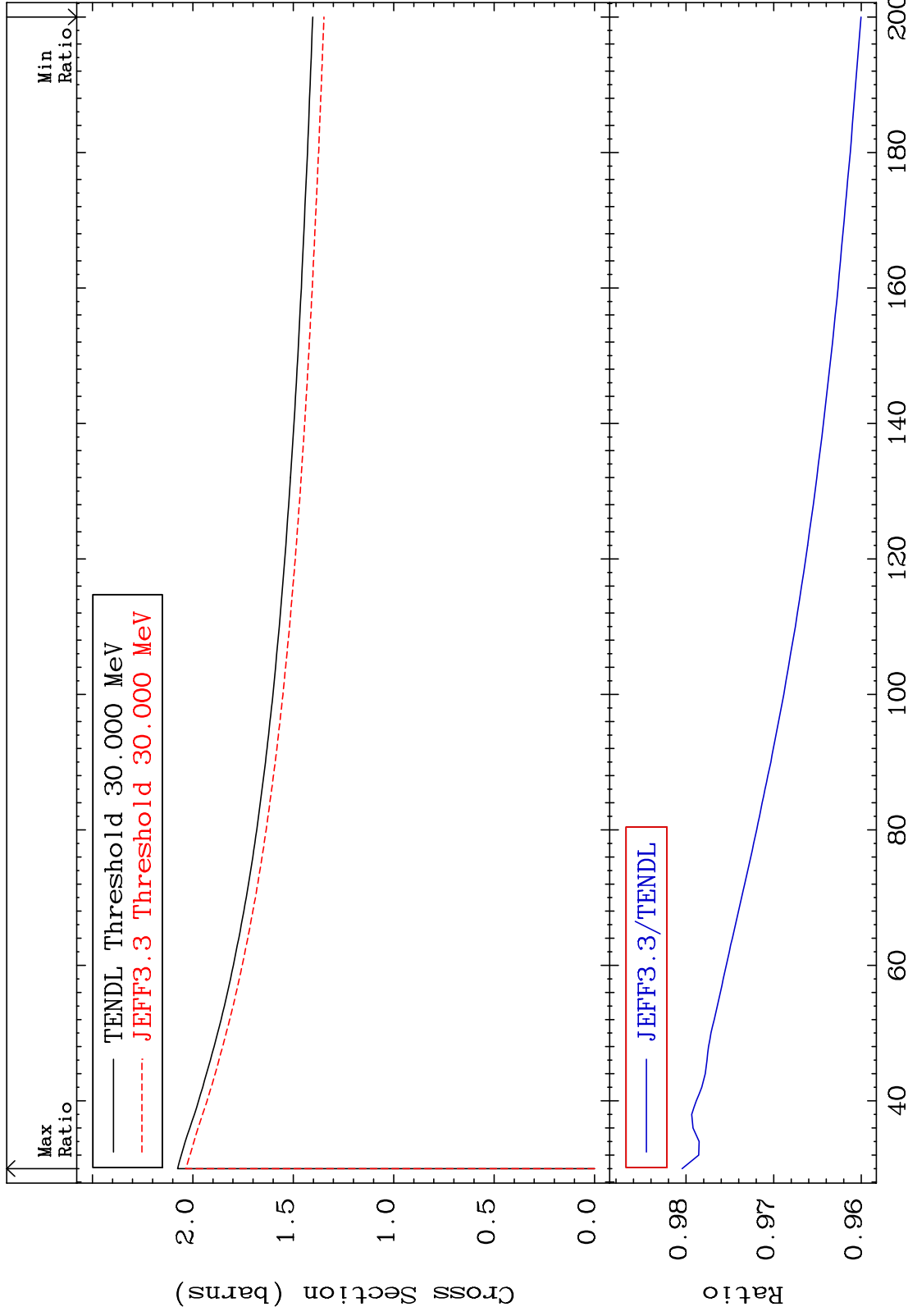


3 Incident Energy (eV) 62-Sm-151

MAT 6246

(n, remainder)  
Cross Section

62-Sm-151  
-3.997 To -1.955%



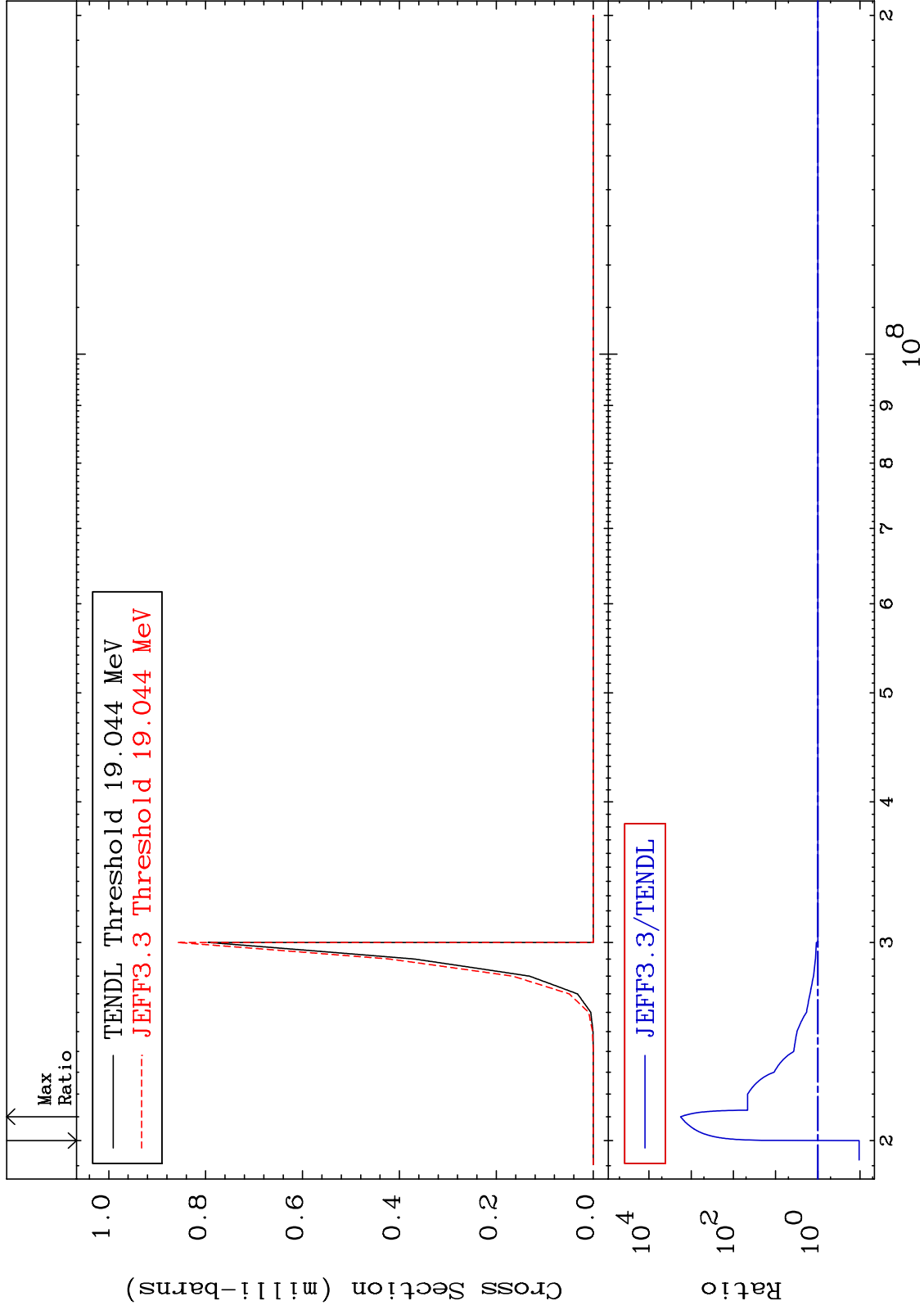
MAT 6246

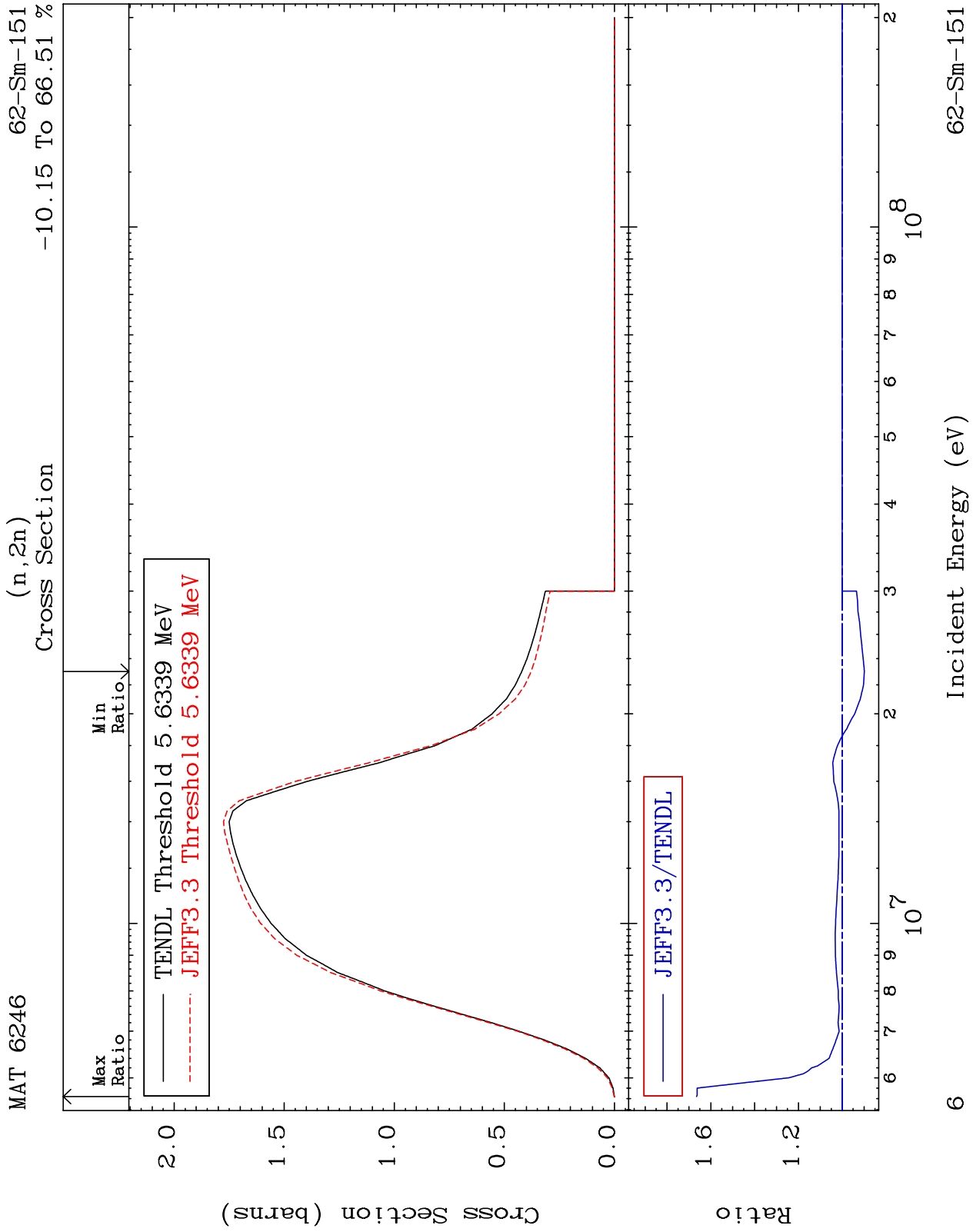
(n,2n) d

62-Sm-151

Cross Section

-89.52 To 9999. %





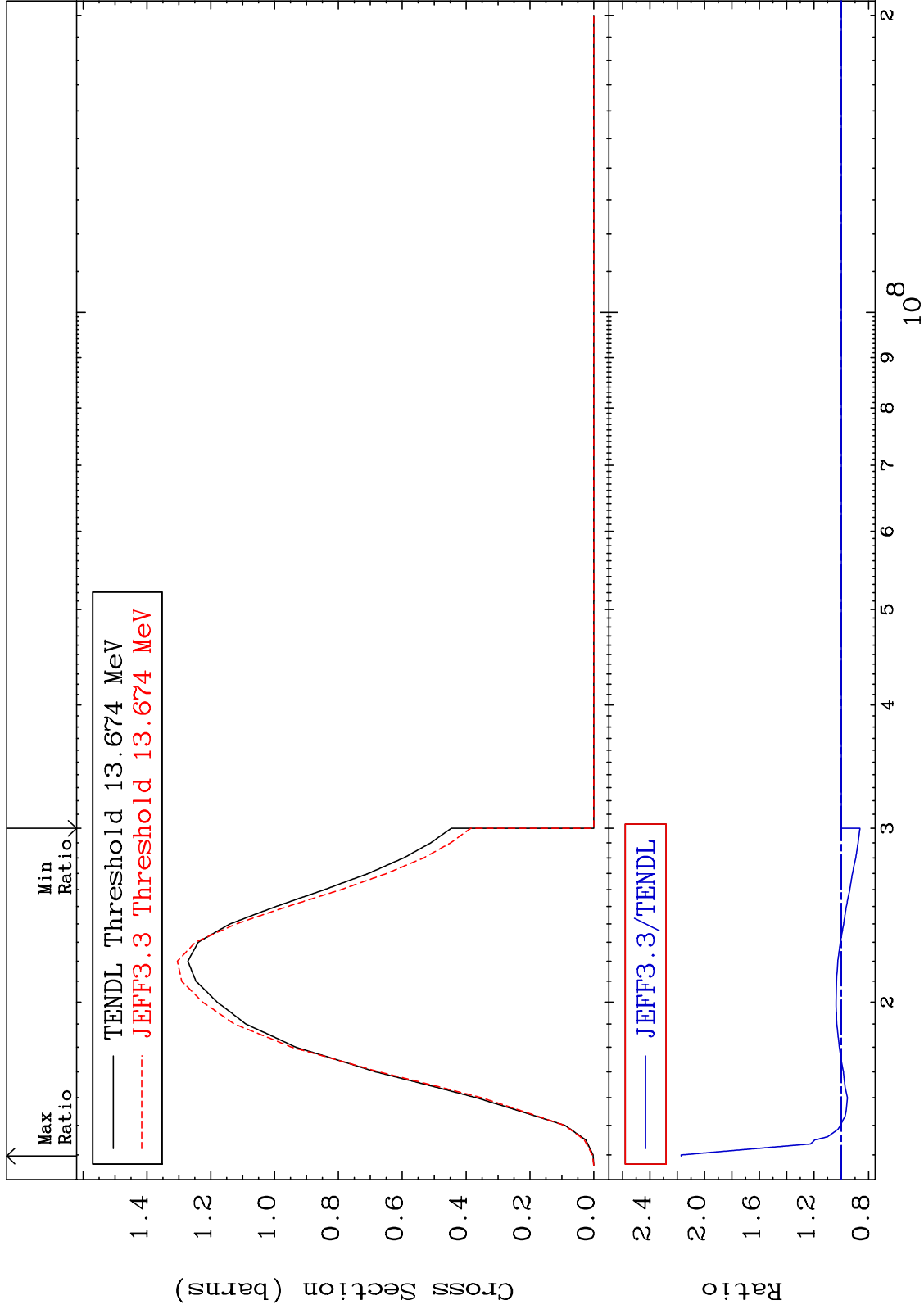
MAT 6246

(n, 3n)

62-Sm-151

Cross Section

-13.61 To 117.1 %





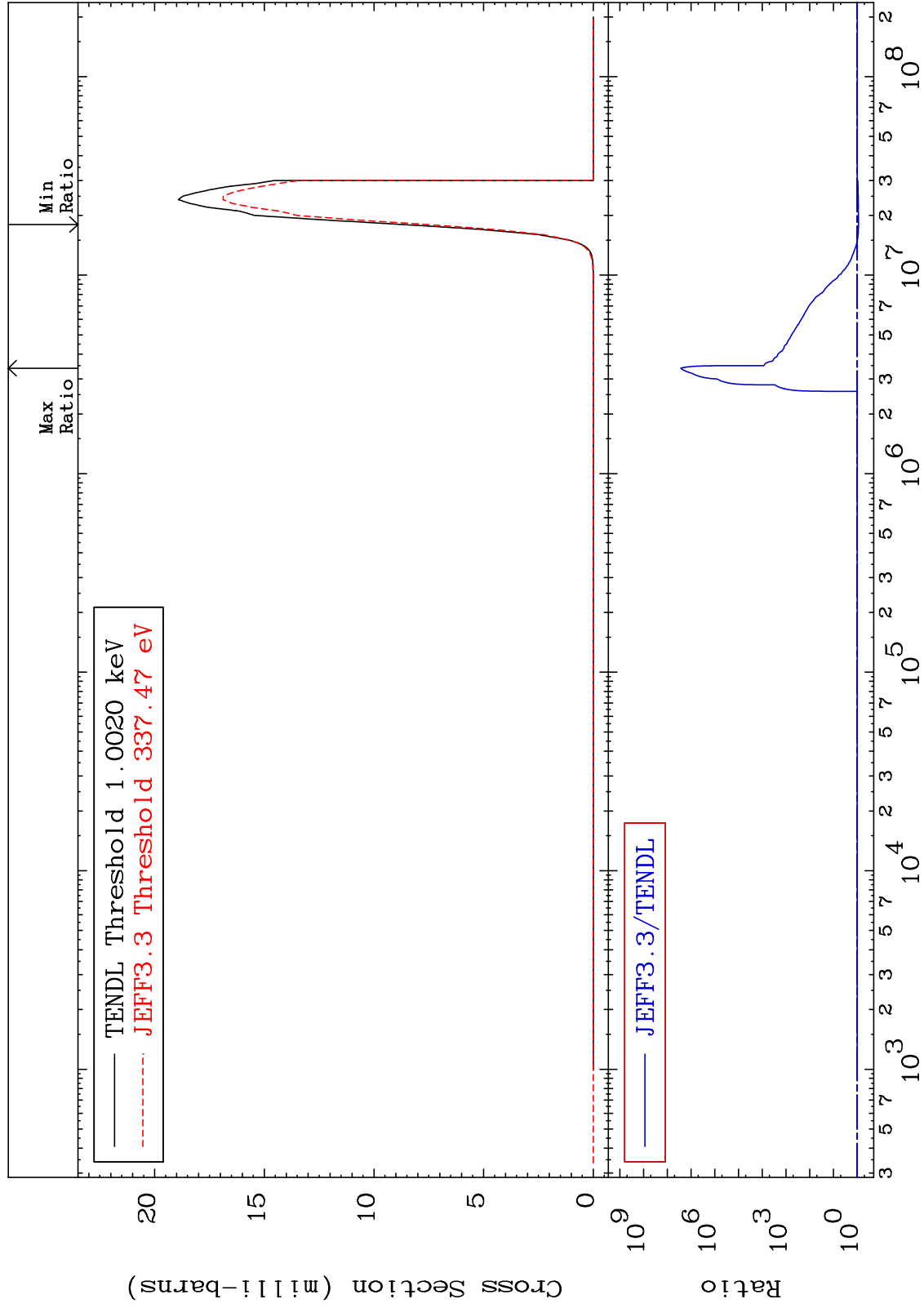
MAT 6246

(n, n')  $\alpha$

Cross Section

62-Sm-151

-12.76 To 9999. %



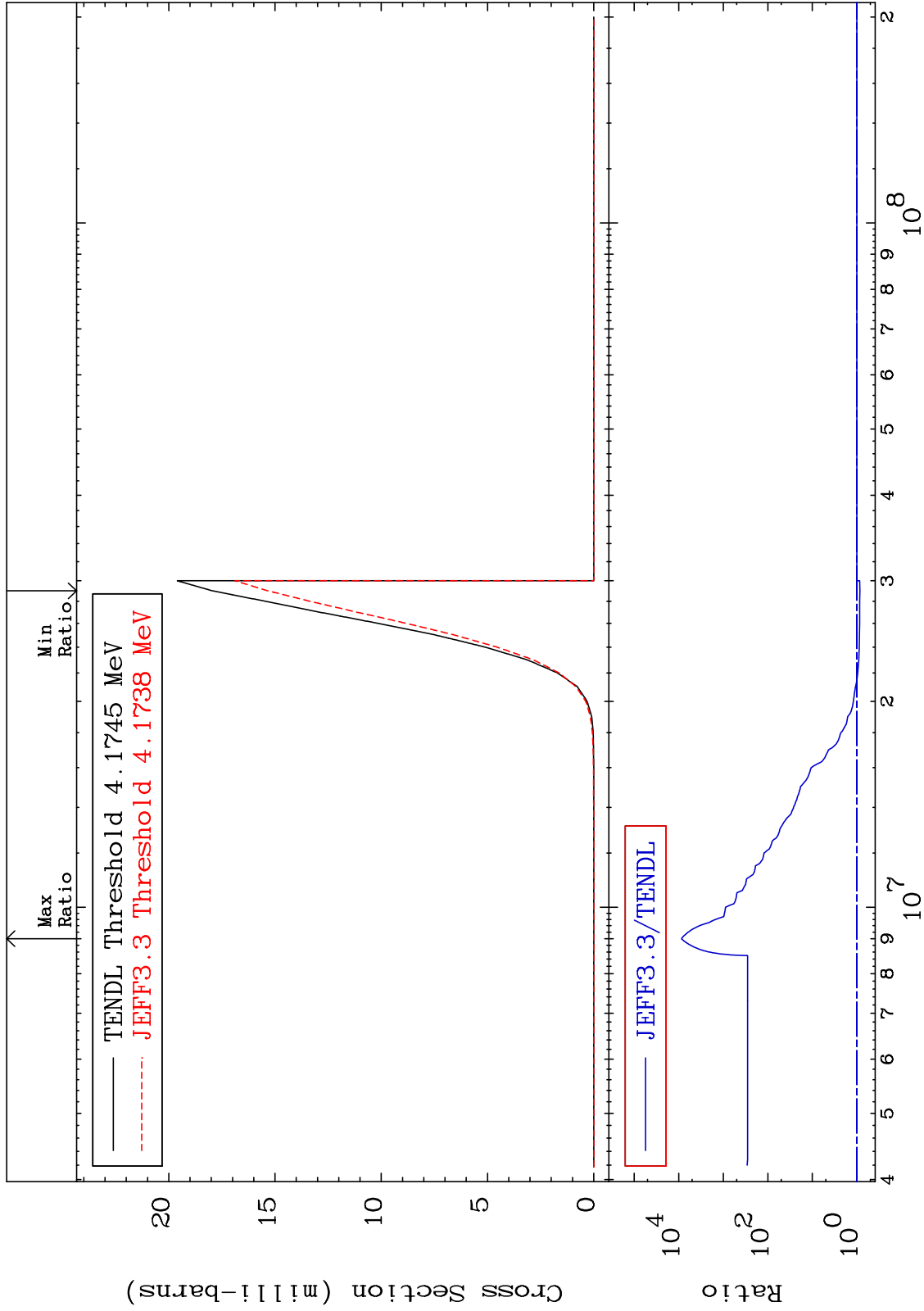
MAT 6246

(n,2n)  $\alpha$

62-Sm-151

-14.56 To 9999. %

Cross Section



9

Incident Energy (eV)

62-Sm-151

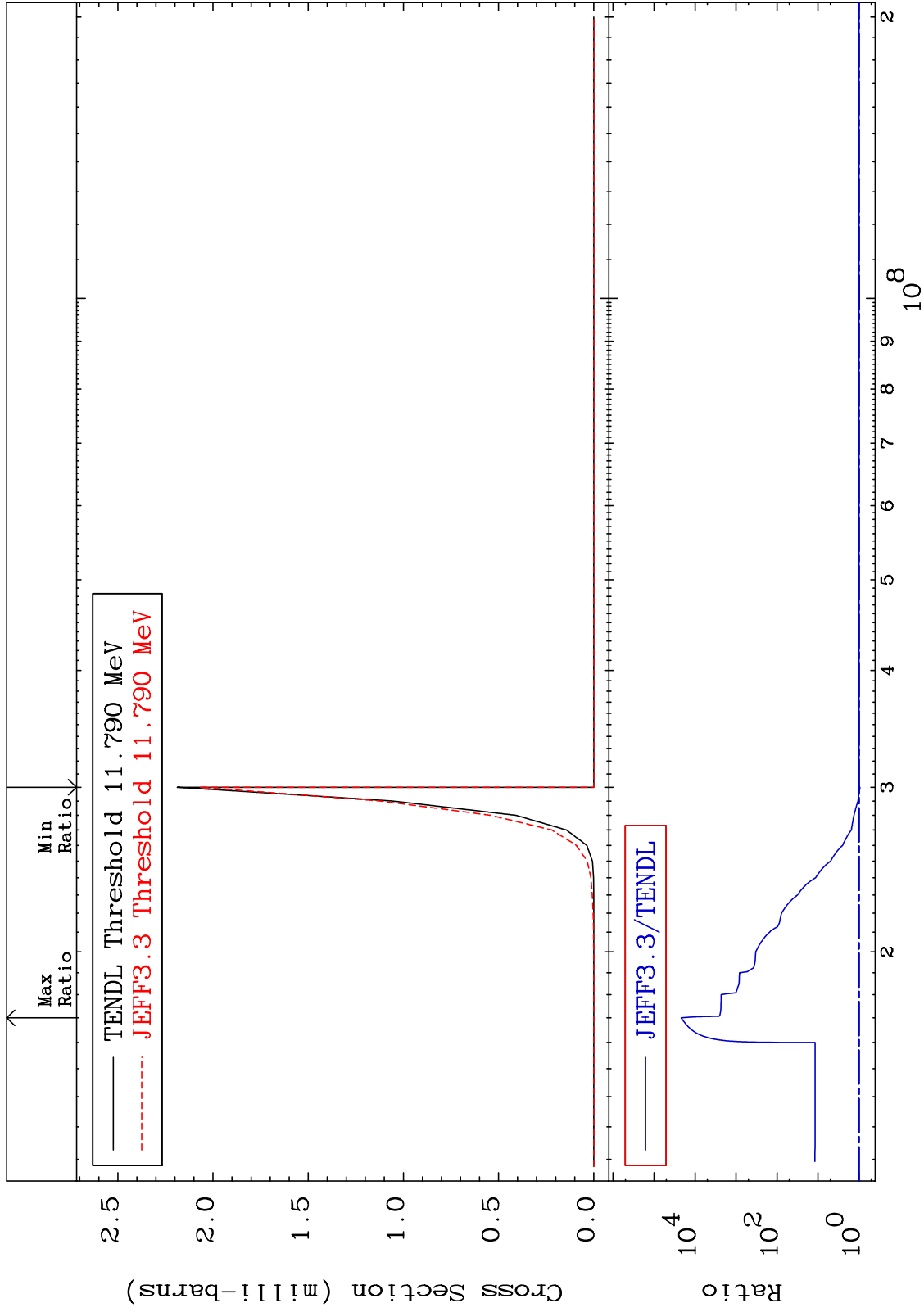
MAT 6246

(n,3n)  $\alpha$

62-Sm-151

Cross Section

-5.348 To 9999. %



10

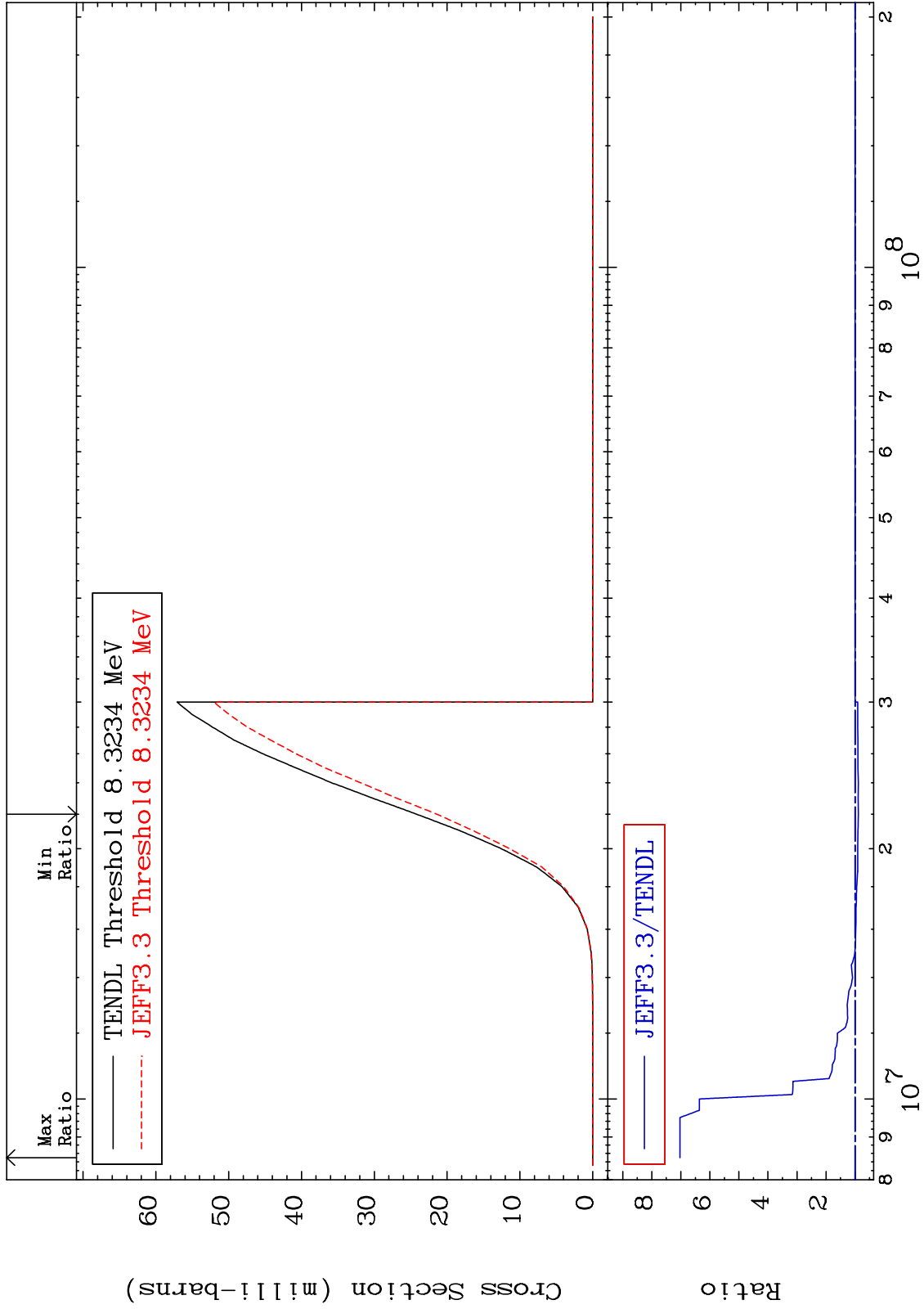
Incident Energy (eV)

62-Sm-151

MAT 6246

(n,n') p  
Cross Section

62-Sm-151  
-11.53 To 602.8 %



11

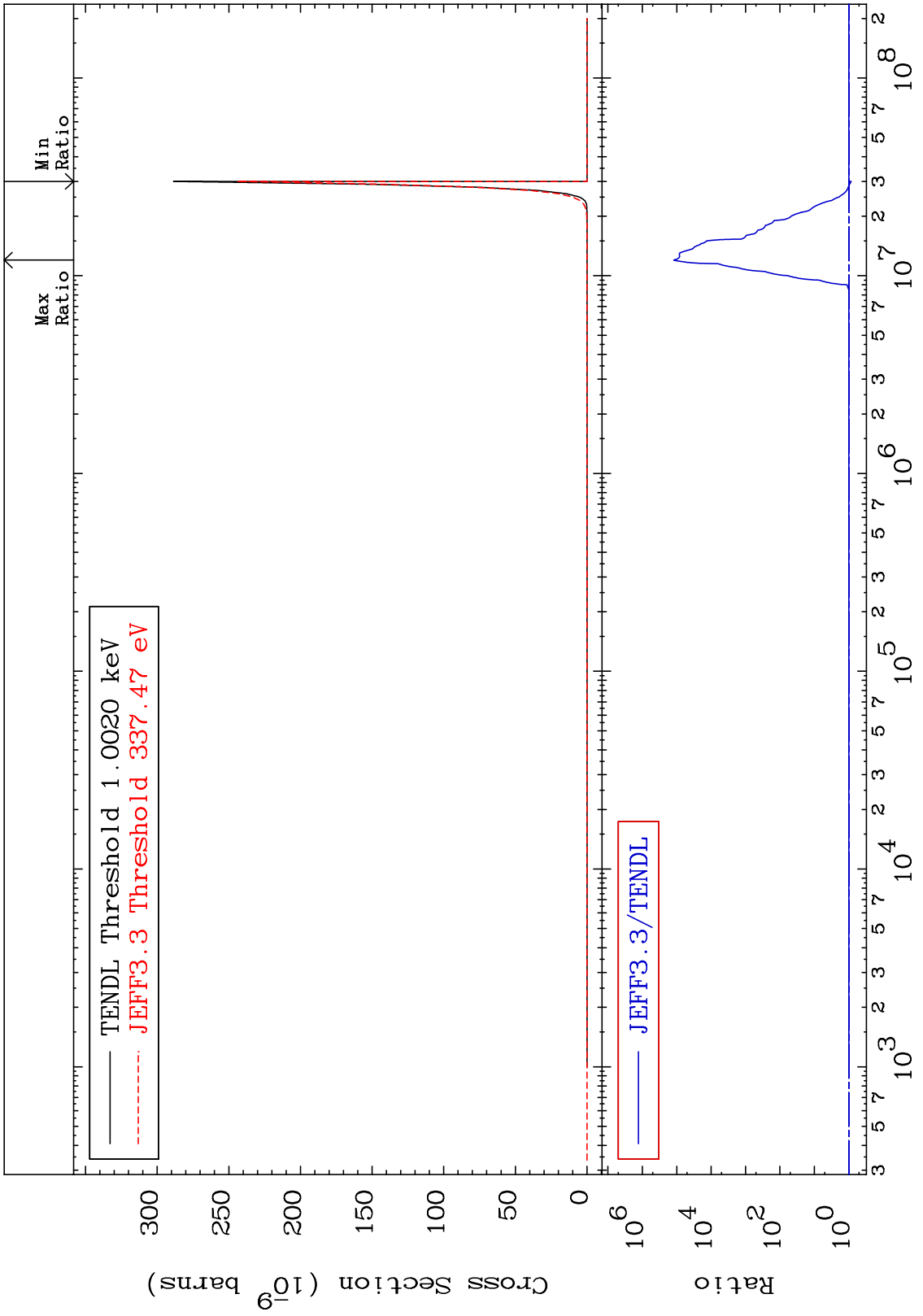
Incident Energy (eV)

62-Sm-151

MAT 6246

(n, n') 2α  
Cross Section

62-Sm-151  
-15.35 To 9999. %



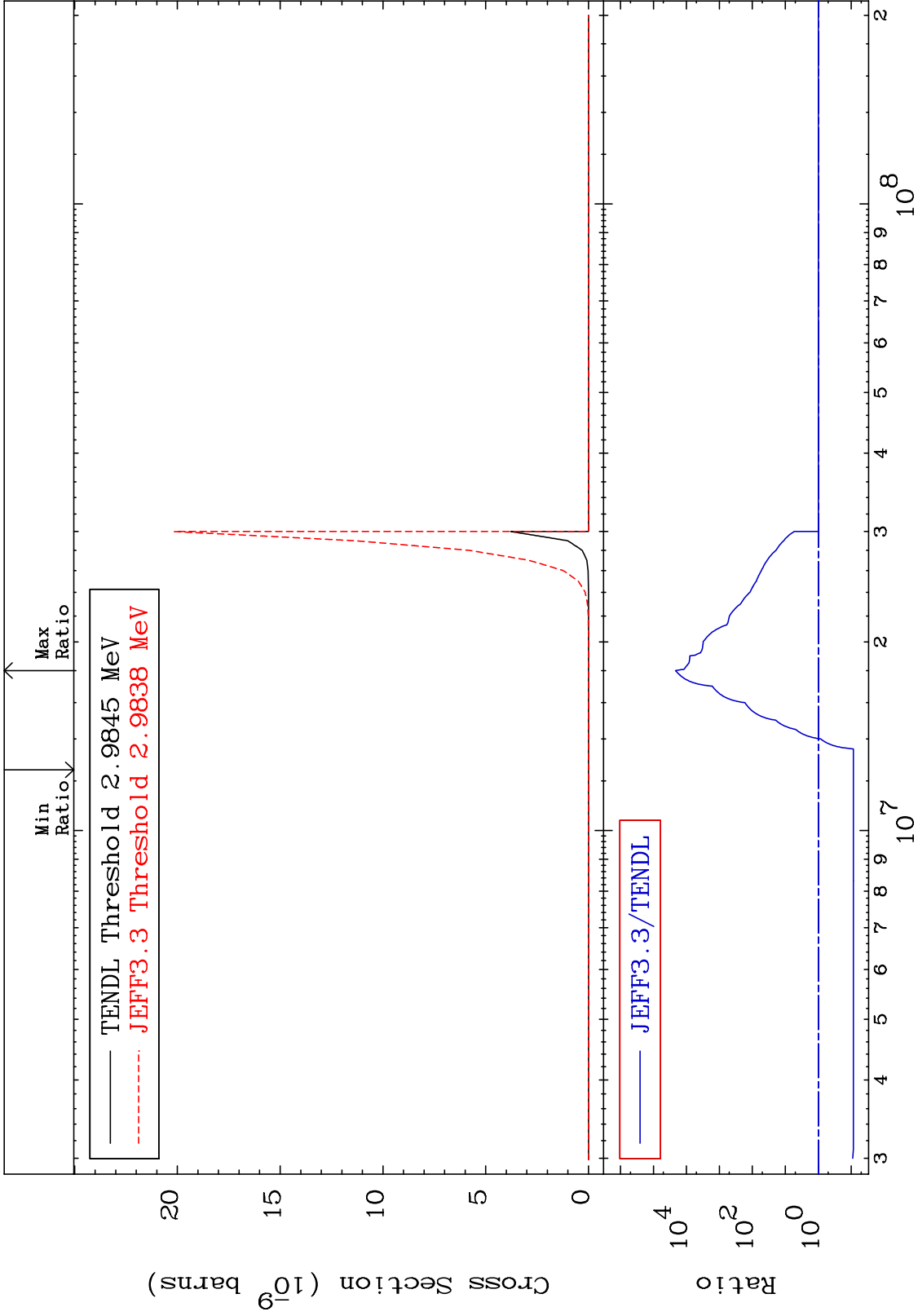
MAT 6246

(n,2n) 2α

62-Sm-151

-91.42 To 9999. %

Cross Section



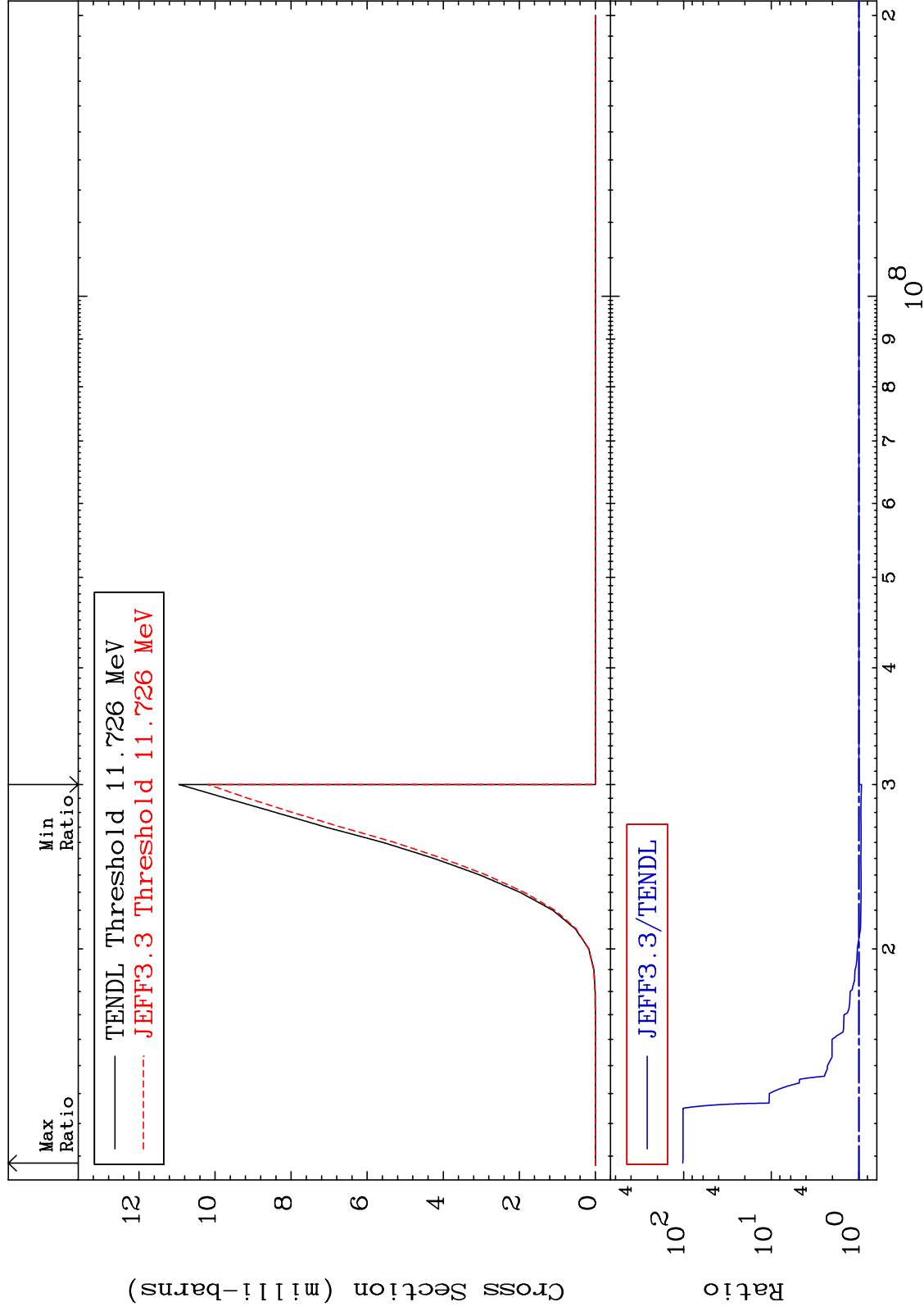
MAT 6246

(n,n') d

62-Sm-151

Cross Section

-6.900 To 9999. %



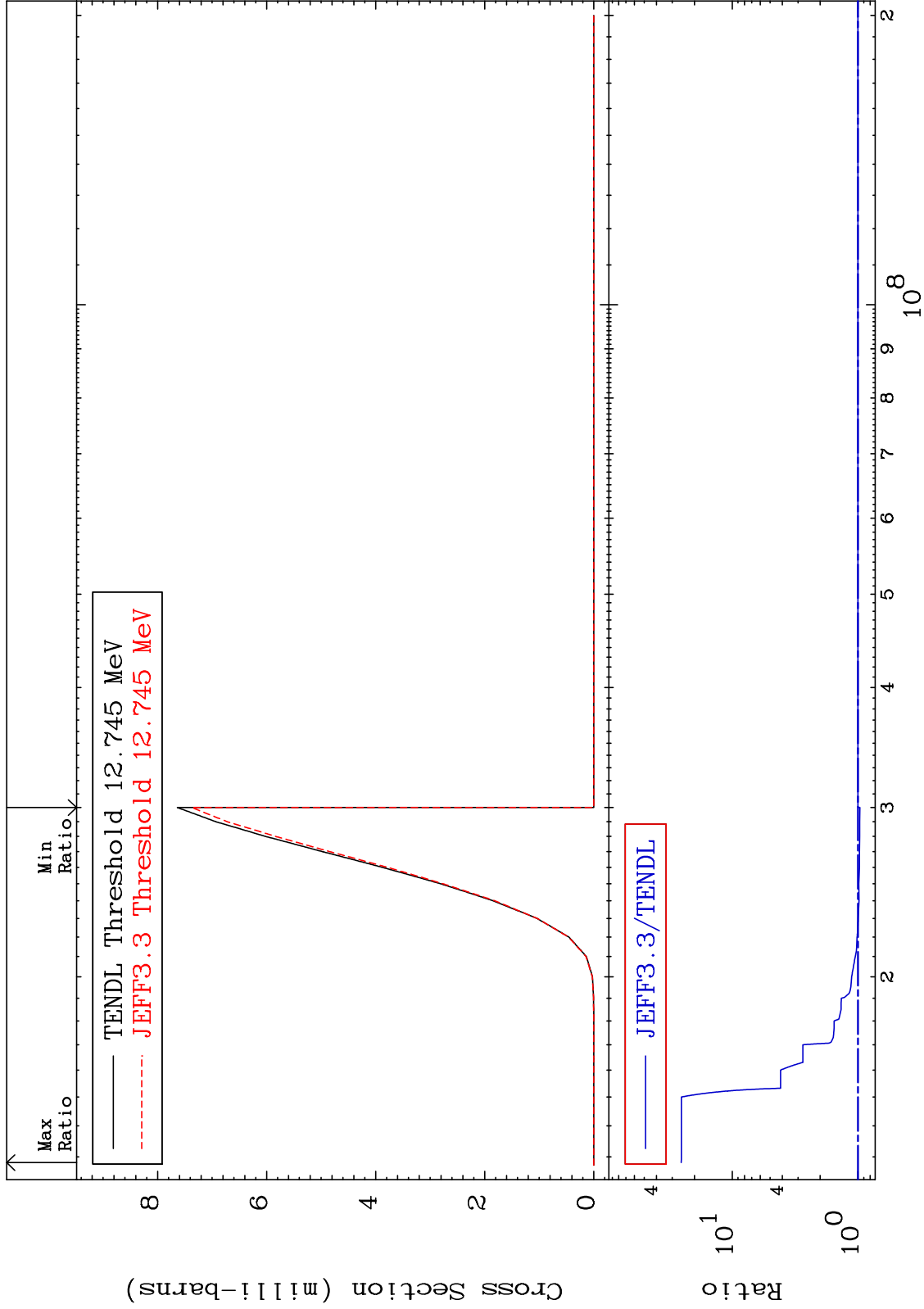
MAT 6246

(n, n') t

62-Sm-151

Cross Section

-3.433 To 2445. %

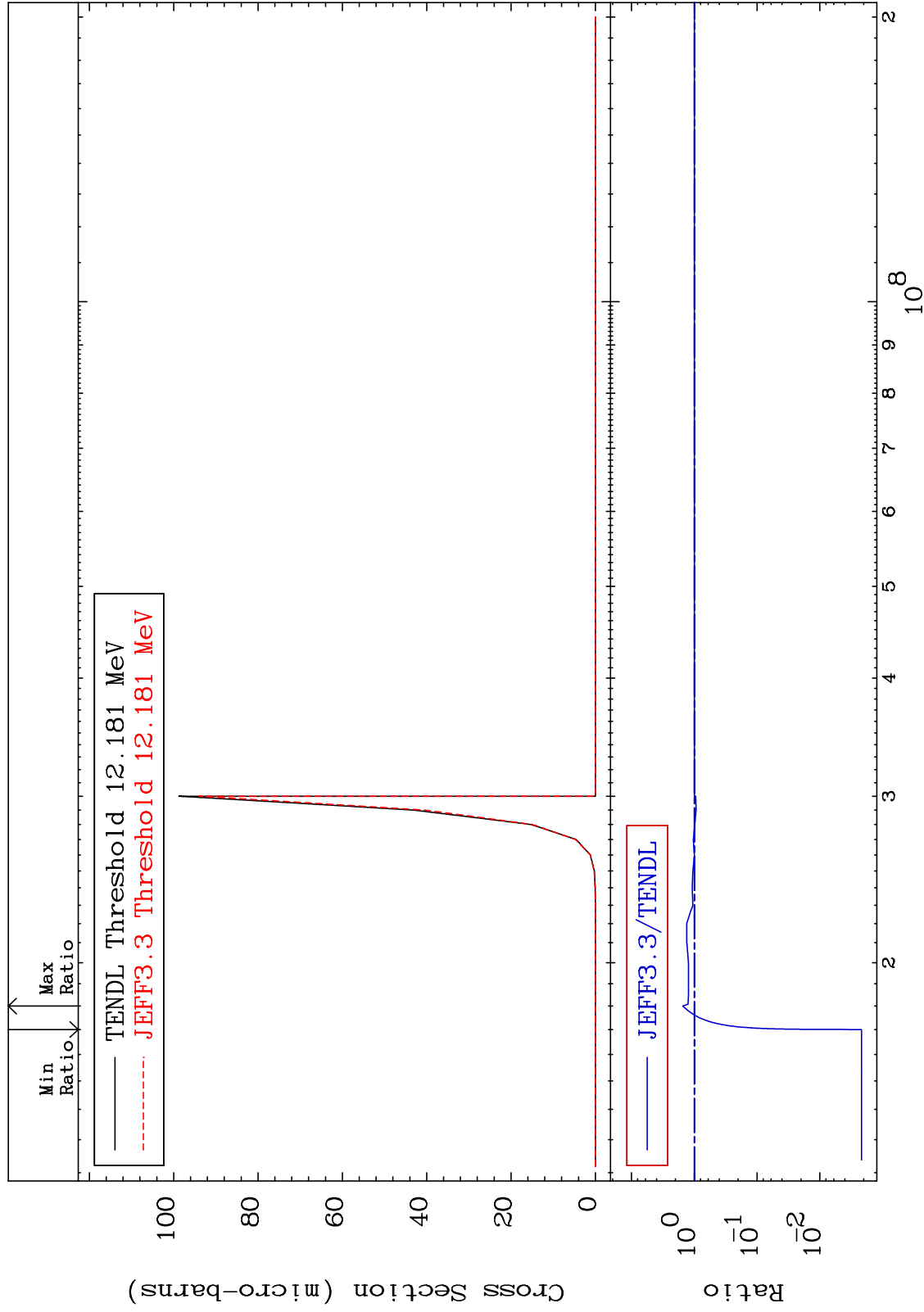




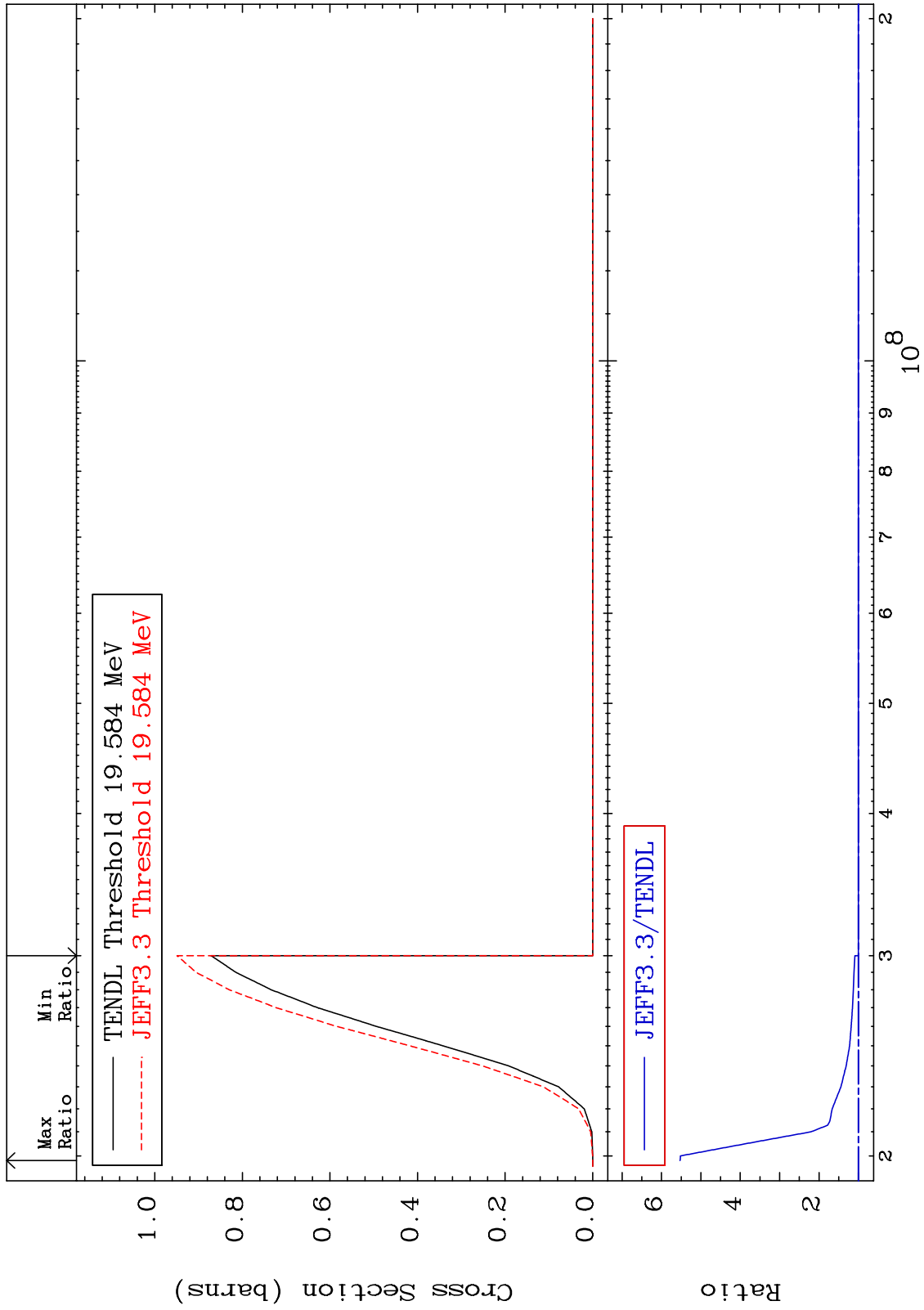
MAT 6246

(n, n') He-3  
Cross Section

62-Sm-151  
-99.78 To 52.15 %



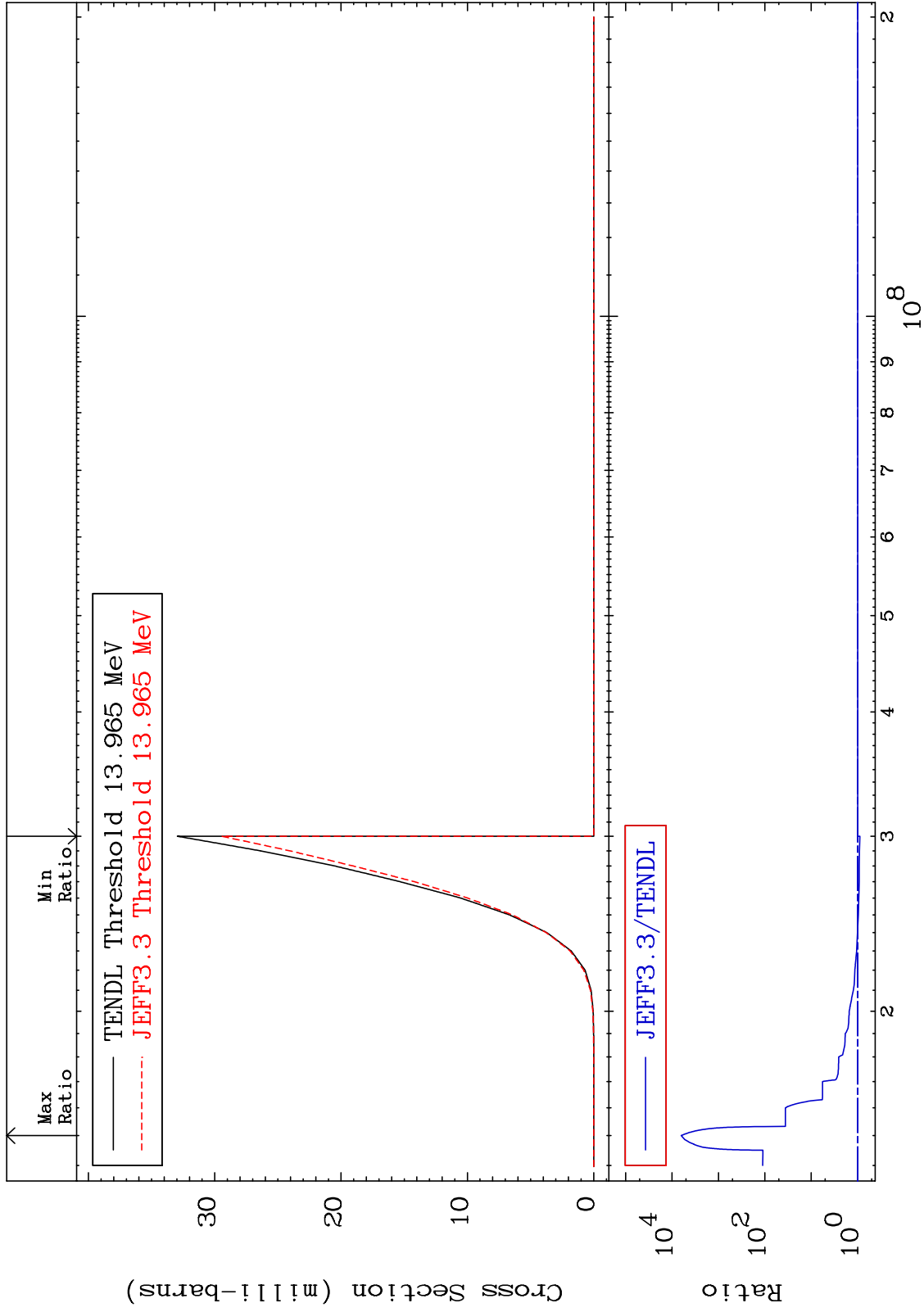
MAT 6246 (n, 4n) Cross Section 62-Sm-151 To 452.9 % 0.000



MAT 6246

(n,2n) p  
Cross Section

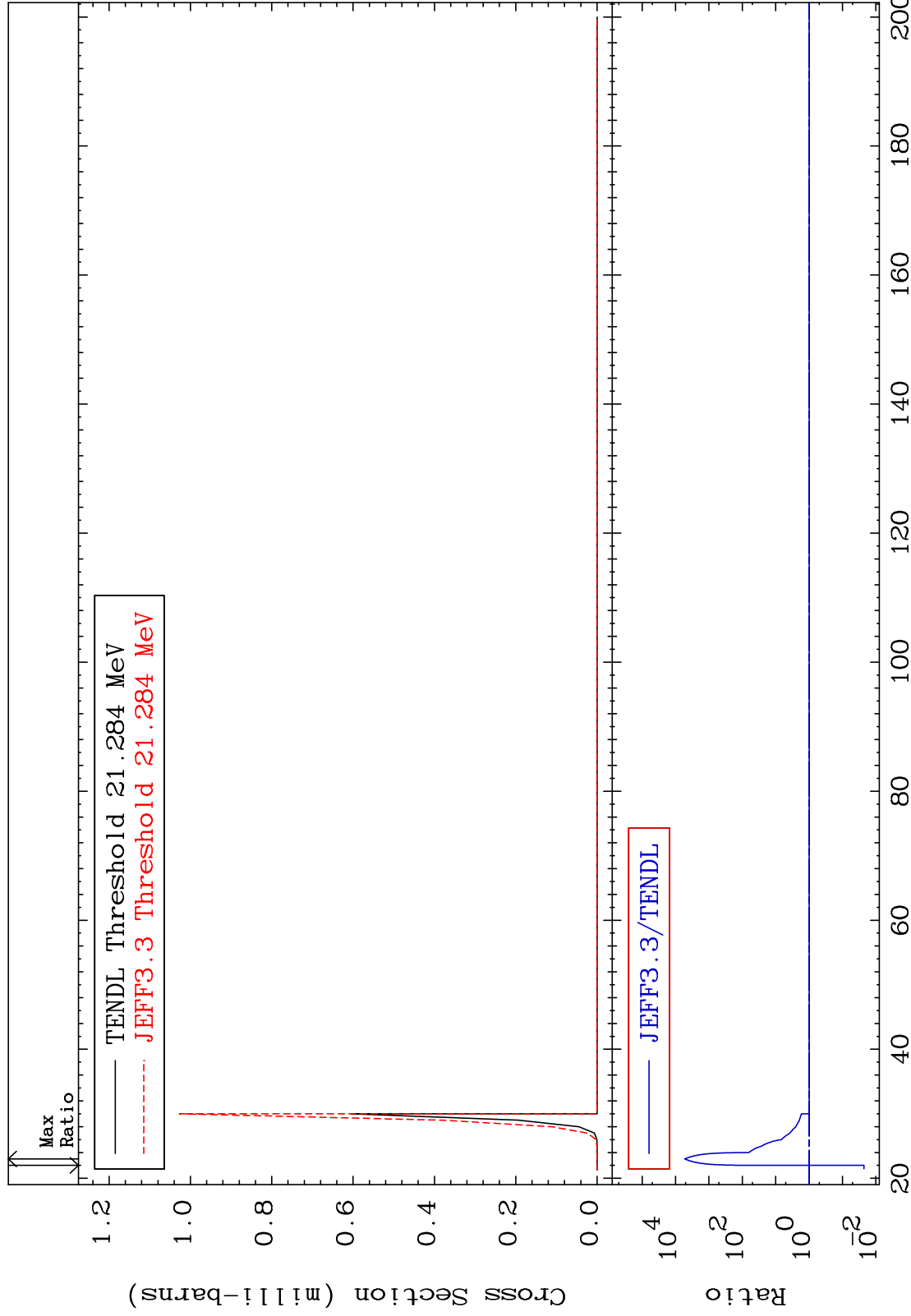
62-Sm-151  
-10.65 To 9999. %



MAT 6246

(n,3n) p  
Cross Section

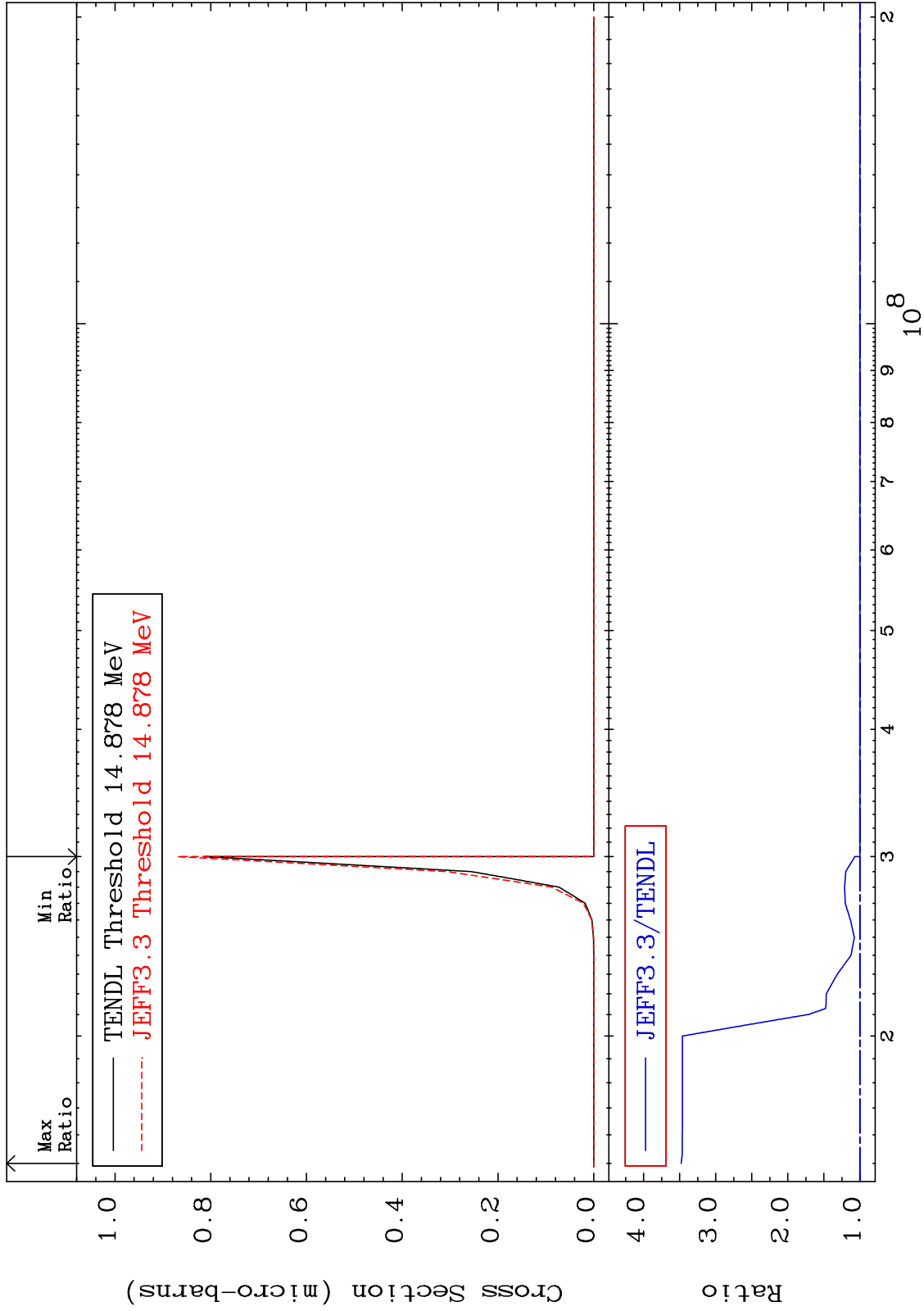
62-Sm-151  
-97.73 To 9999. %



MAT 6246

(n,2n) p  
Cross Section

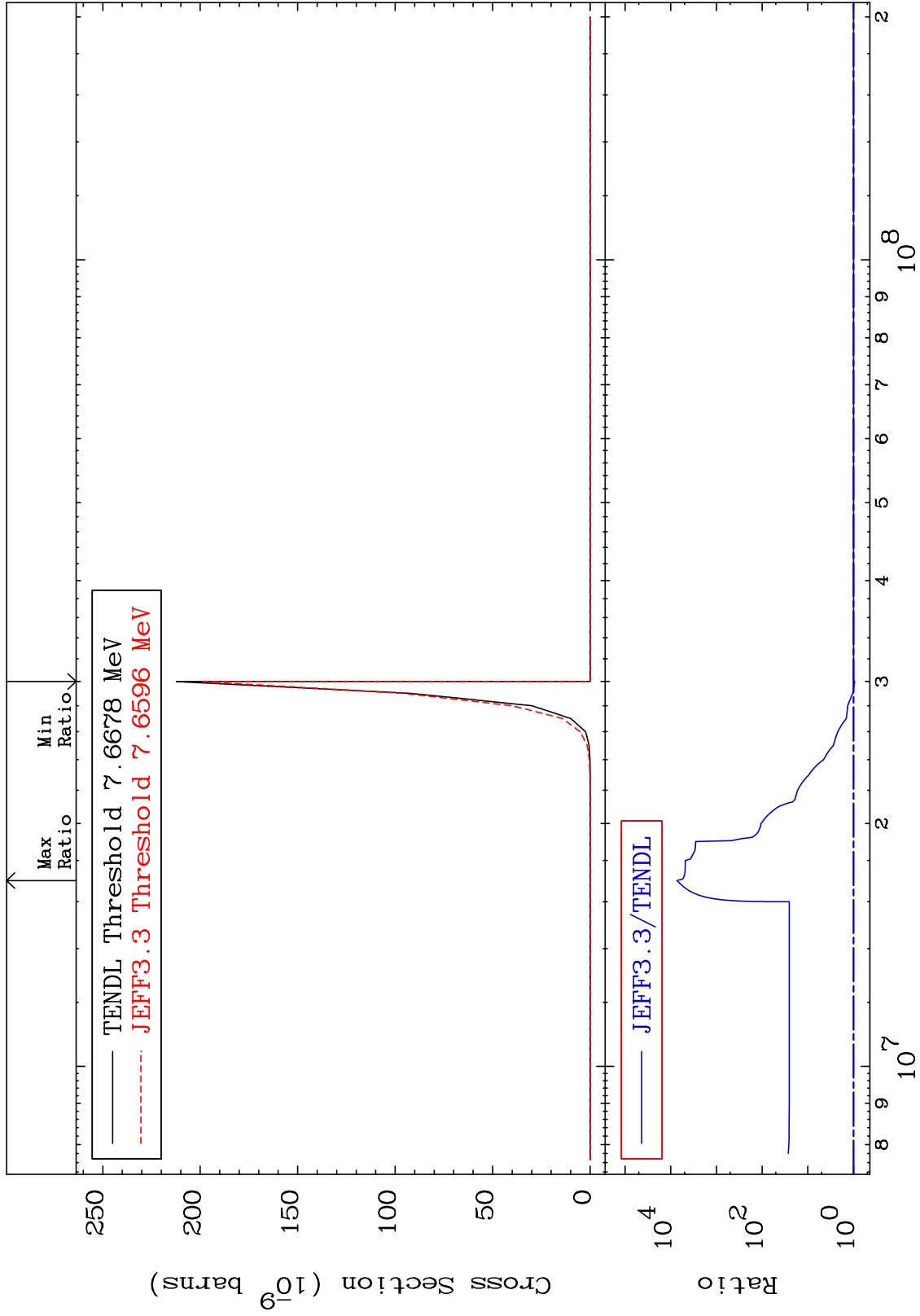
62-Sm-151  
0.000 To 247.9 %



MAT 6246

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

62-Sm-151  
-5.750 To 9999. %



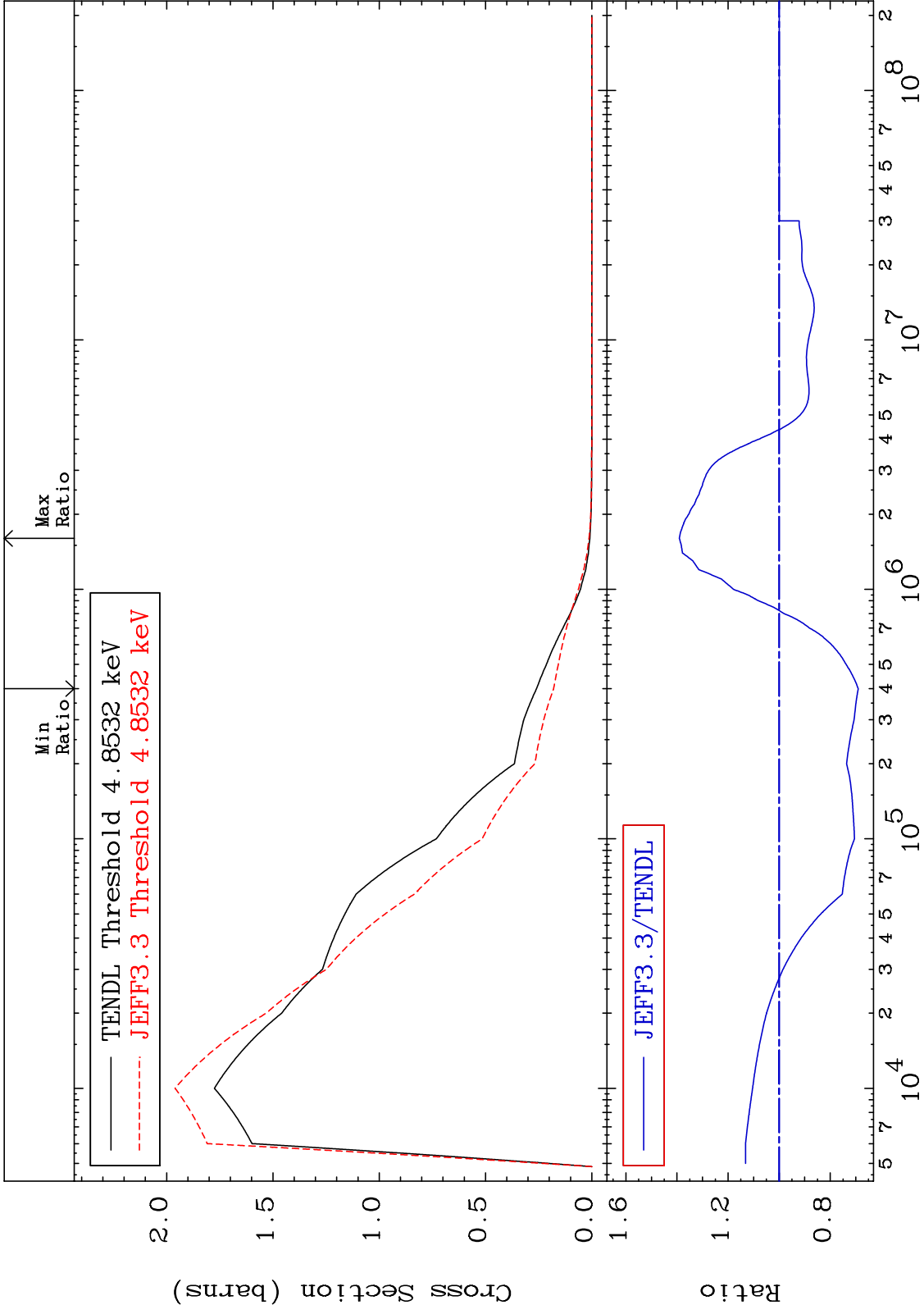
MAT 6246

MT= 51 (n, n') Level

62-Sm-151

-30.96 To 39.07 %

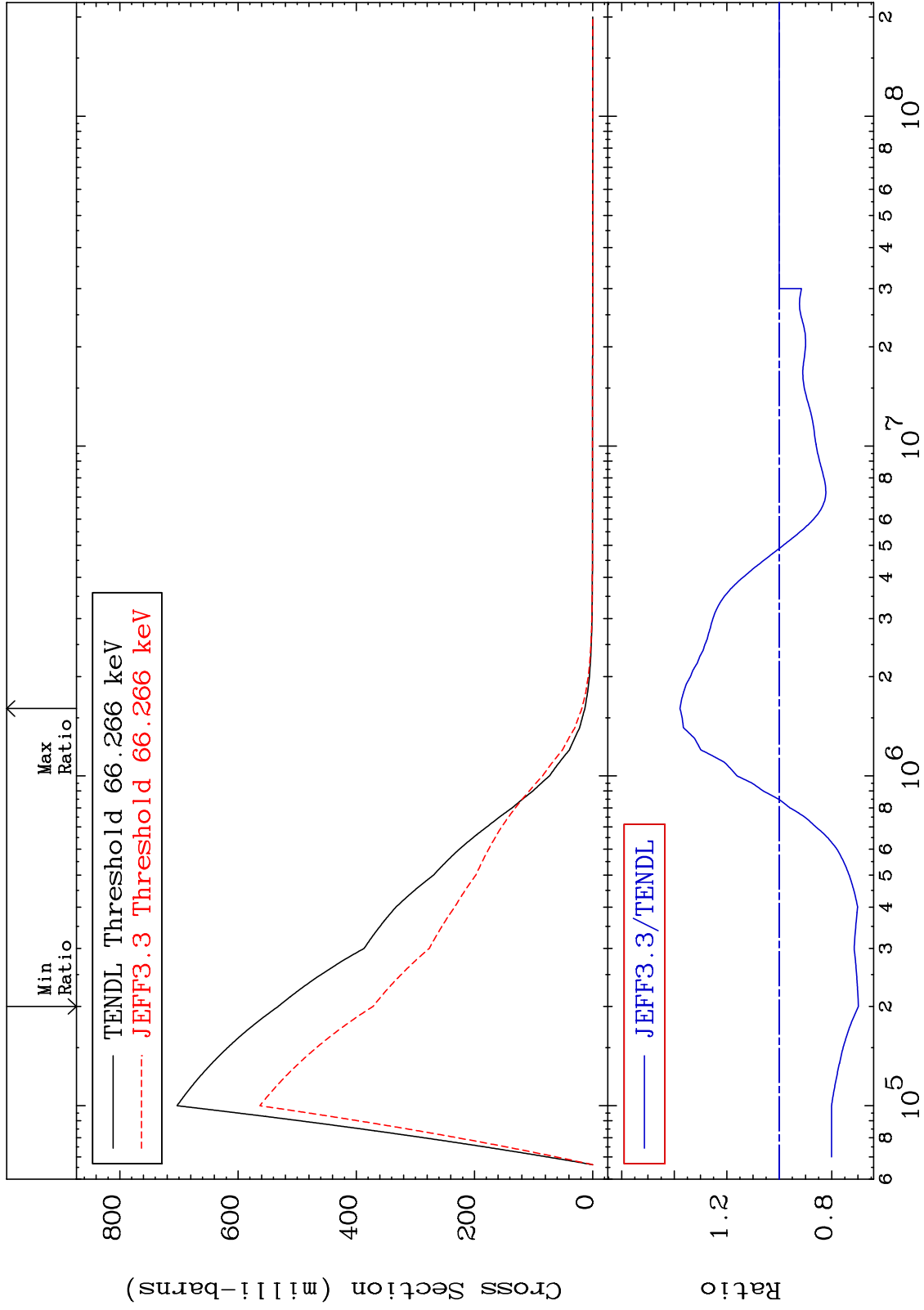
Cross Section



MAT 6246

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

62-Sm-151  
-30.16 To 37.79 %

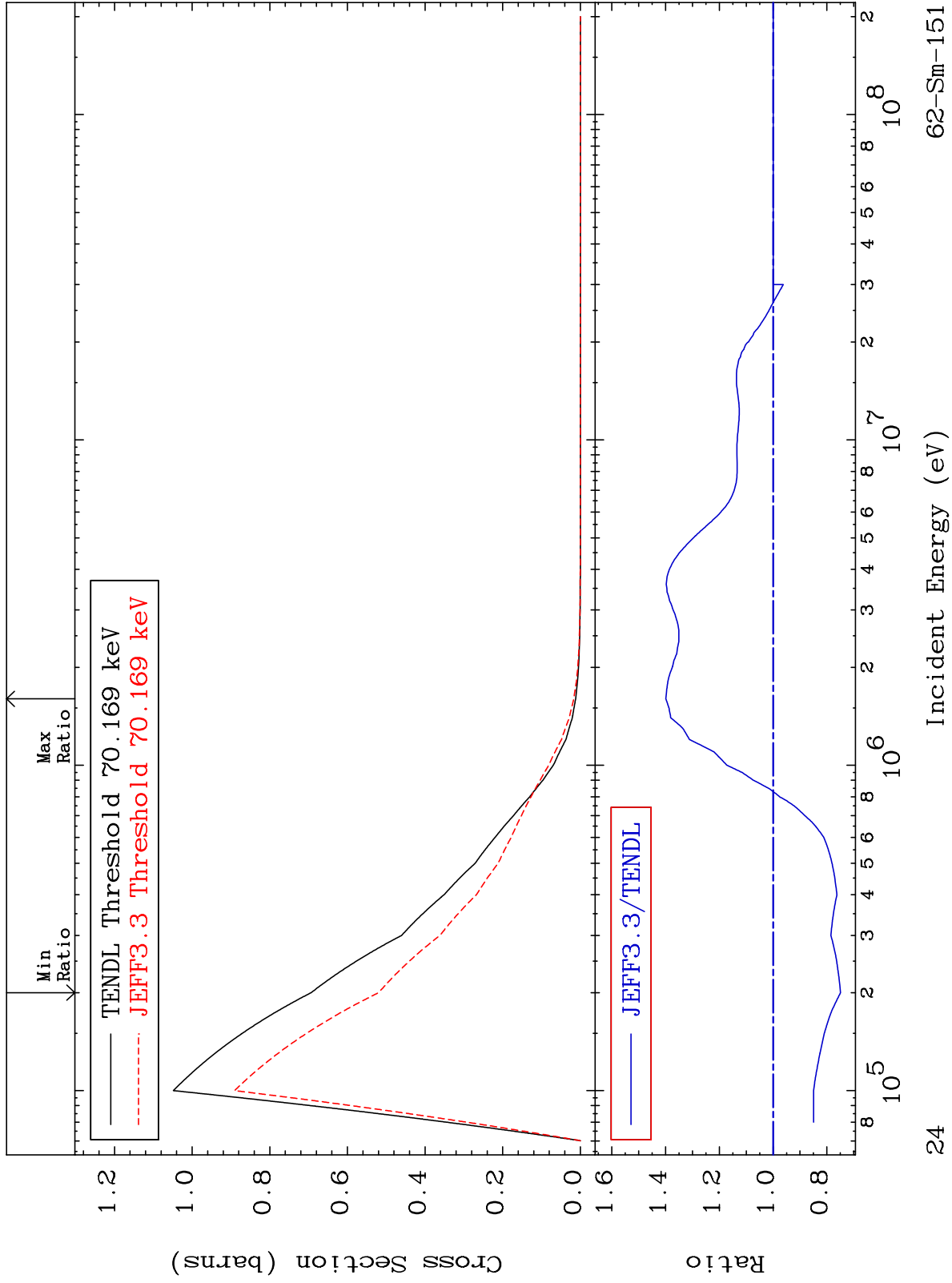




MAT 6246

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

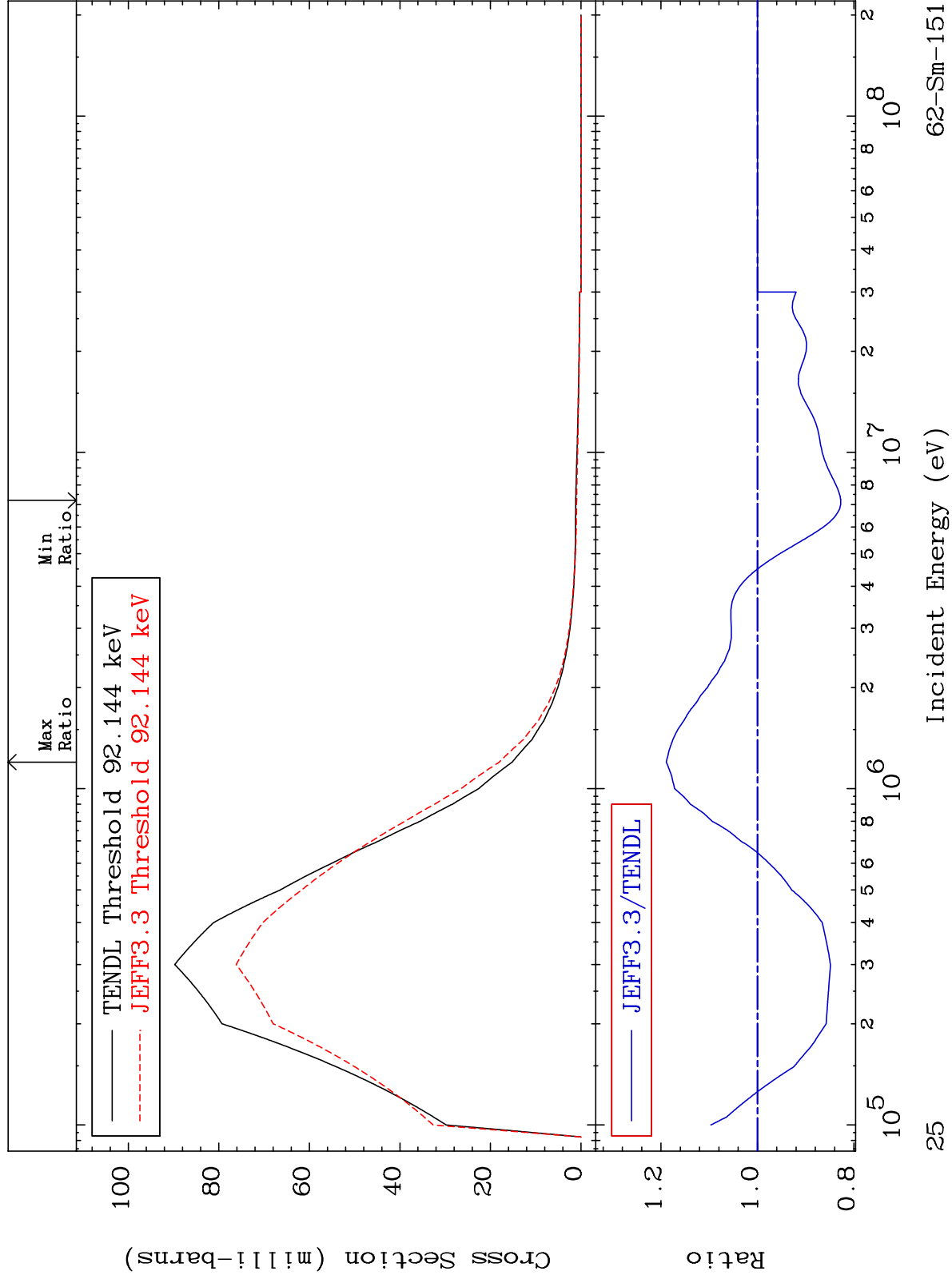
62-Sm-151  
-25.07 To 39.89 %



MAT 6246

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

62-Sm-151  
-17.26 To 18.89 %



25

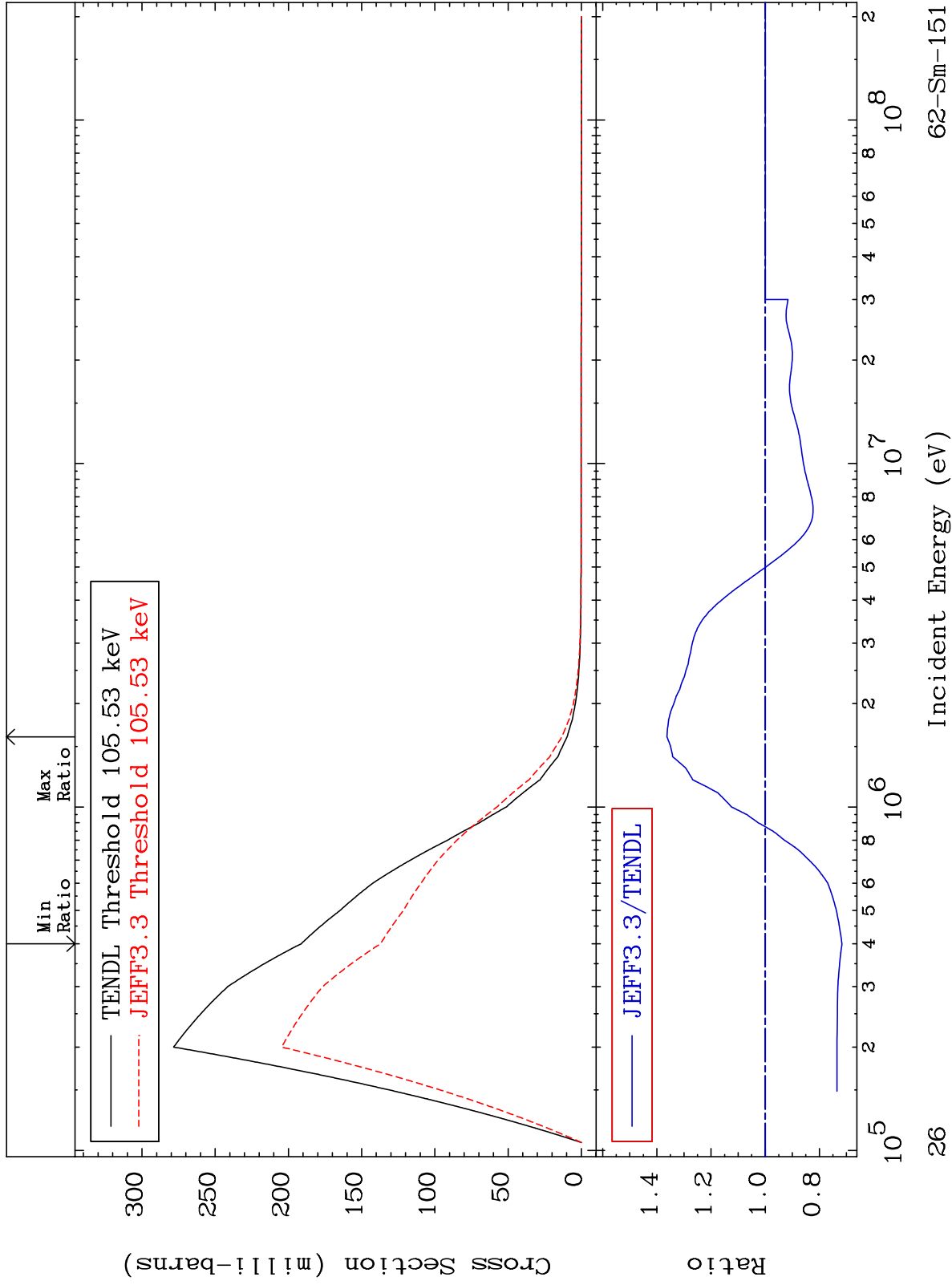
Incident Energy (eV)

62-Sm-151

MAT 6246

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

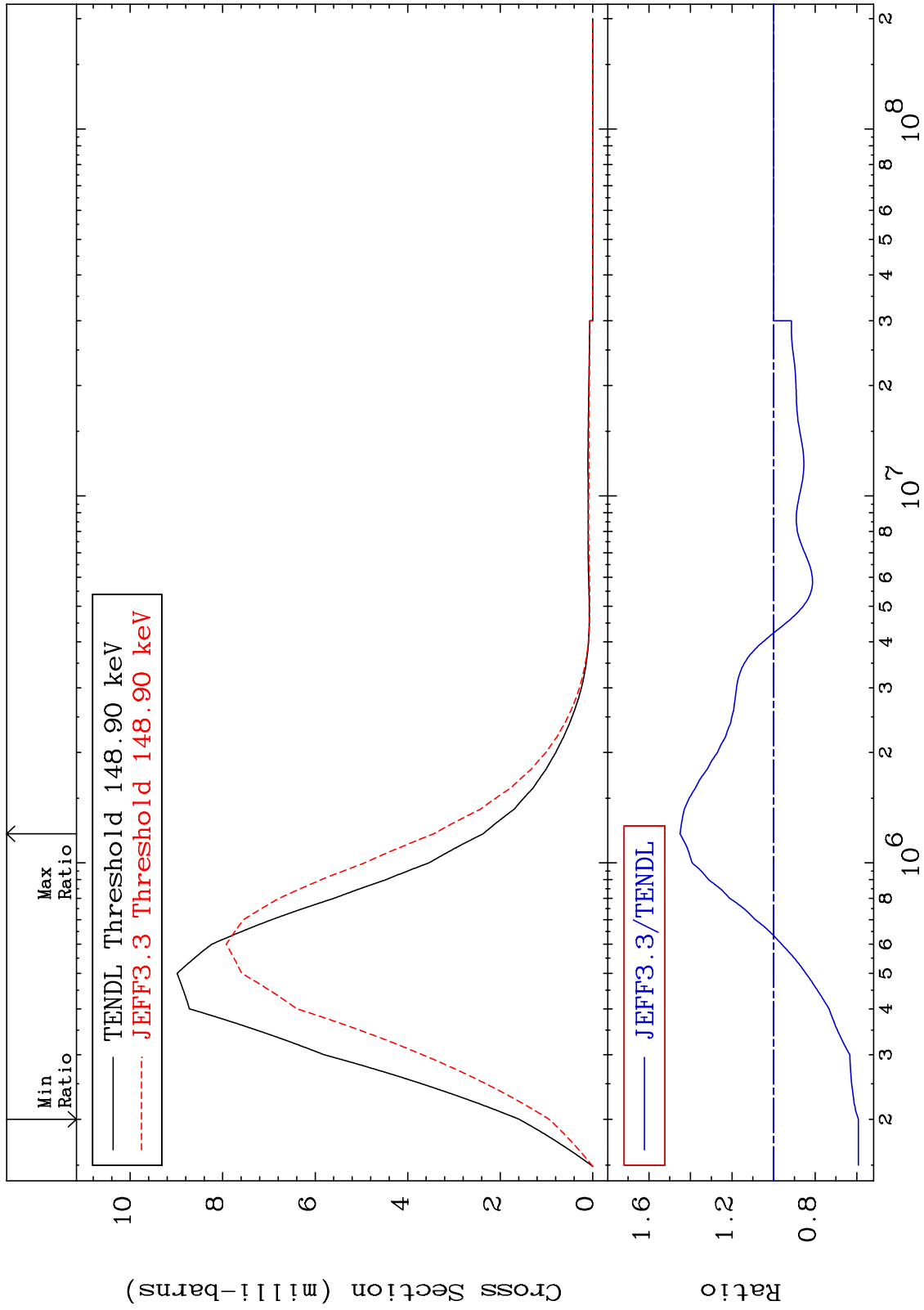
62-Sm-151  
-28.33 To 36.27 %



26

62-Sm-151

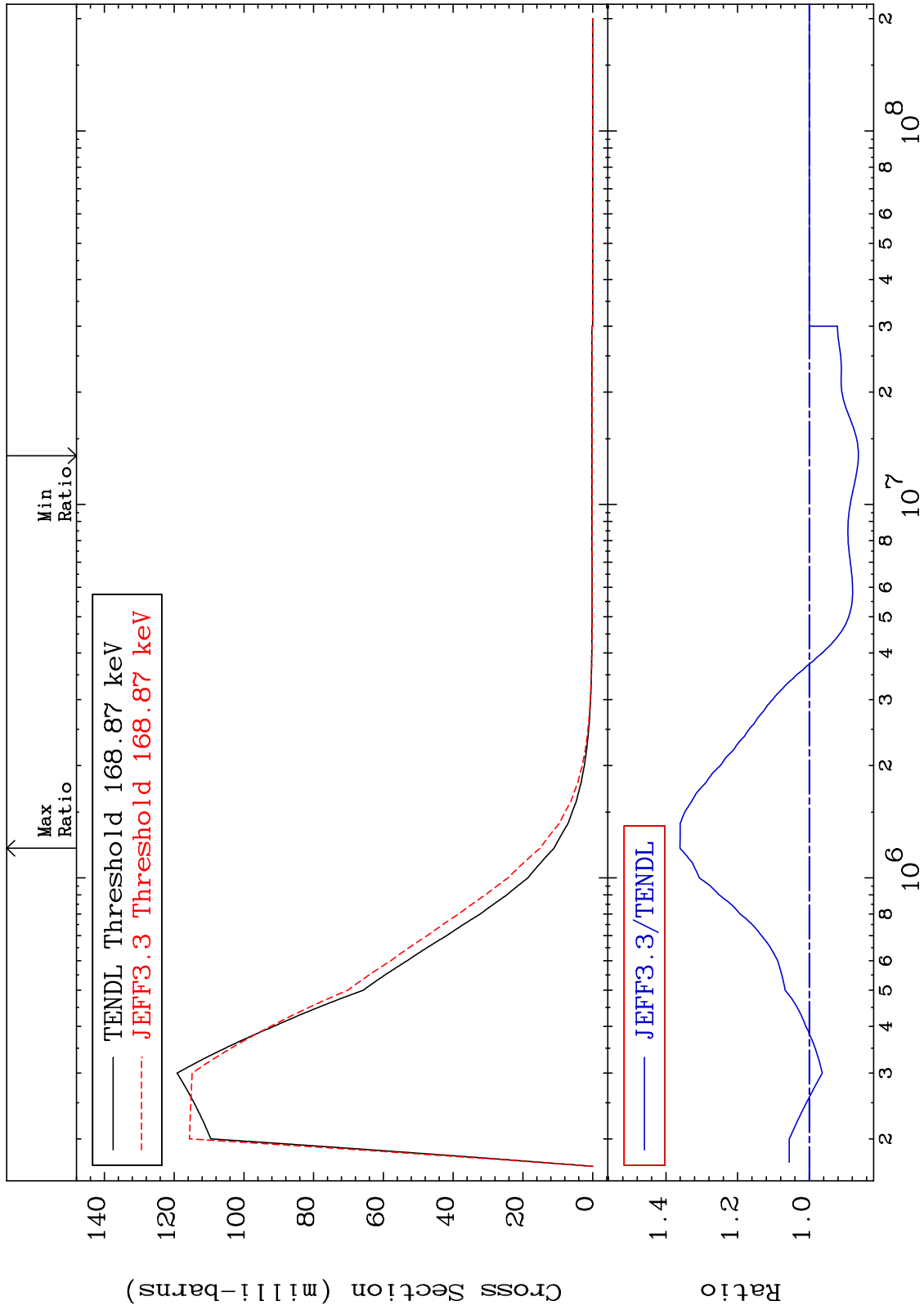
MAT 6246 MT= 56 (n,n') Level  
 Cross Section 62-Sm-151  
 -40.80 To 45.04 %



62-Sm-151

Incident Energy (eV)

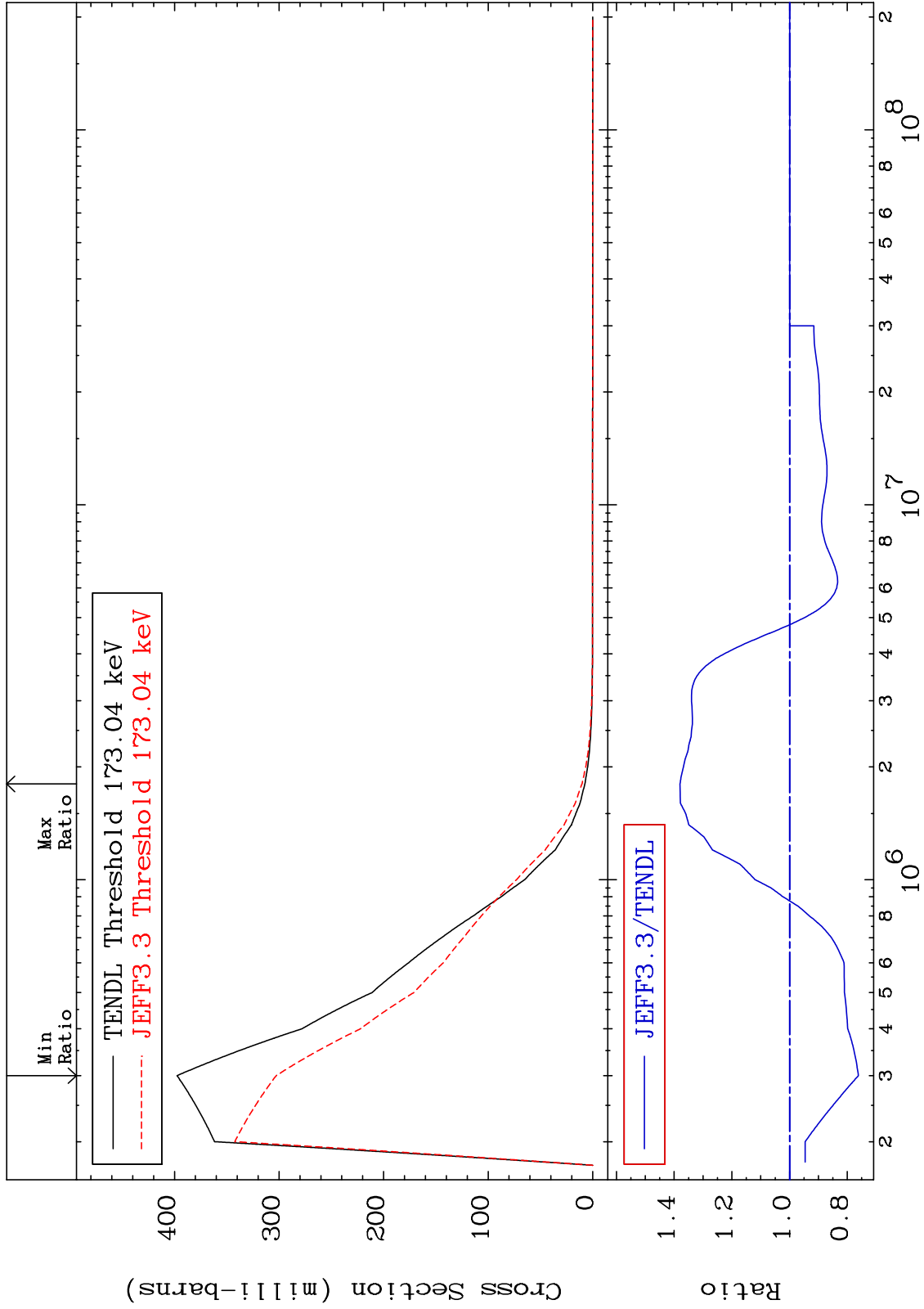
MAT 6246      MT= 57 (n,n') Level      62-Sm-151  
 Cross Section      -13.69 To 36.06 %



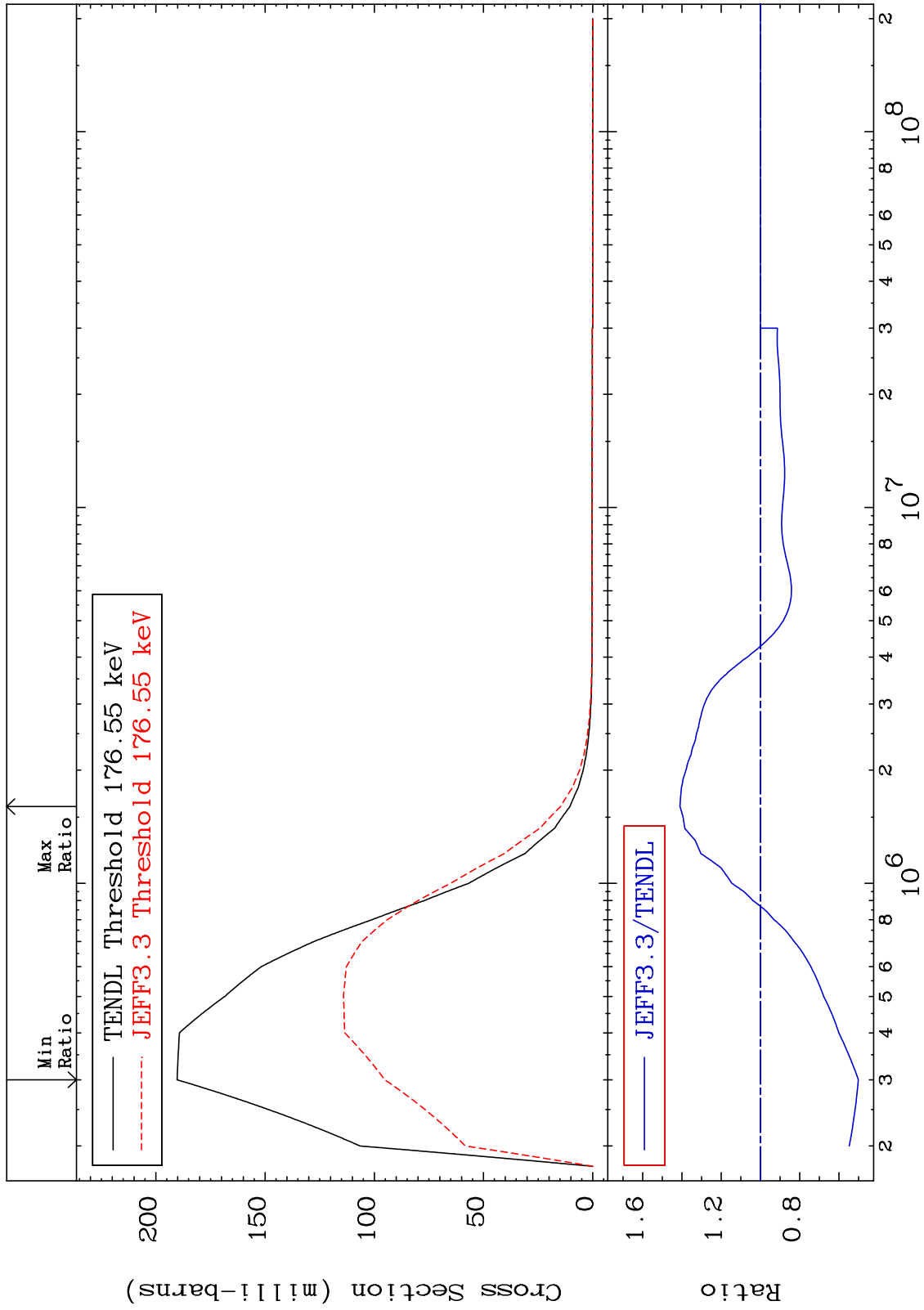
MAT 6246

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

62-Sm-151  
-23.85 To 37.97 %



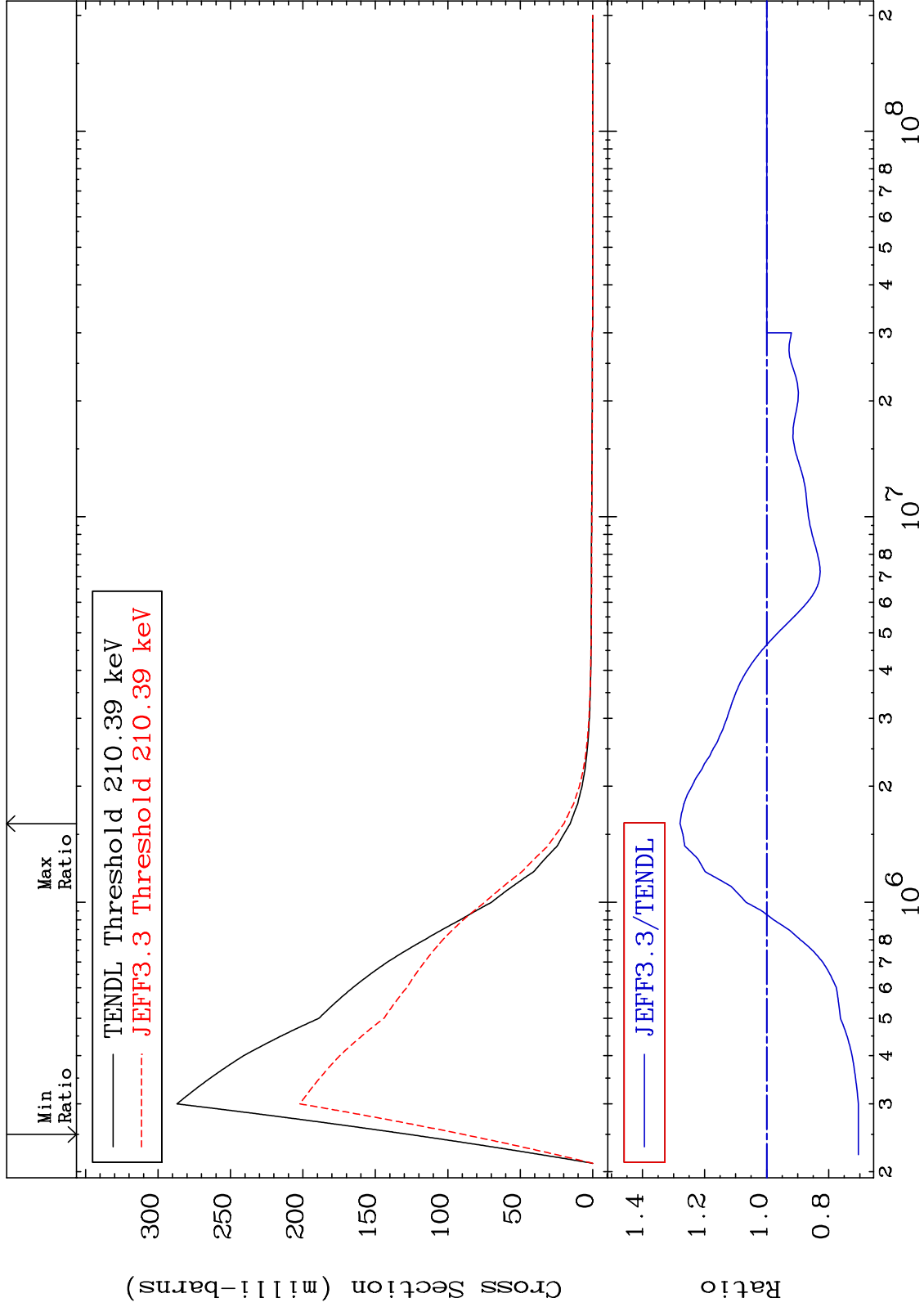
MAT 6246      MT= 59 (n,n') Level      62-Sm-151  
 Cross Section      -49.97 To 40.97 %



MAT 6246

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

62-Sm-151  
-29.55 To 27.92 %

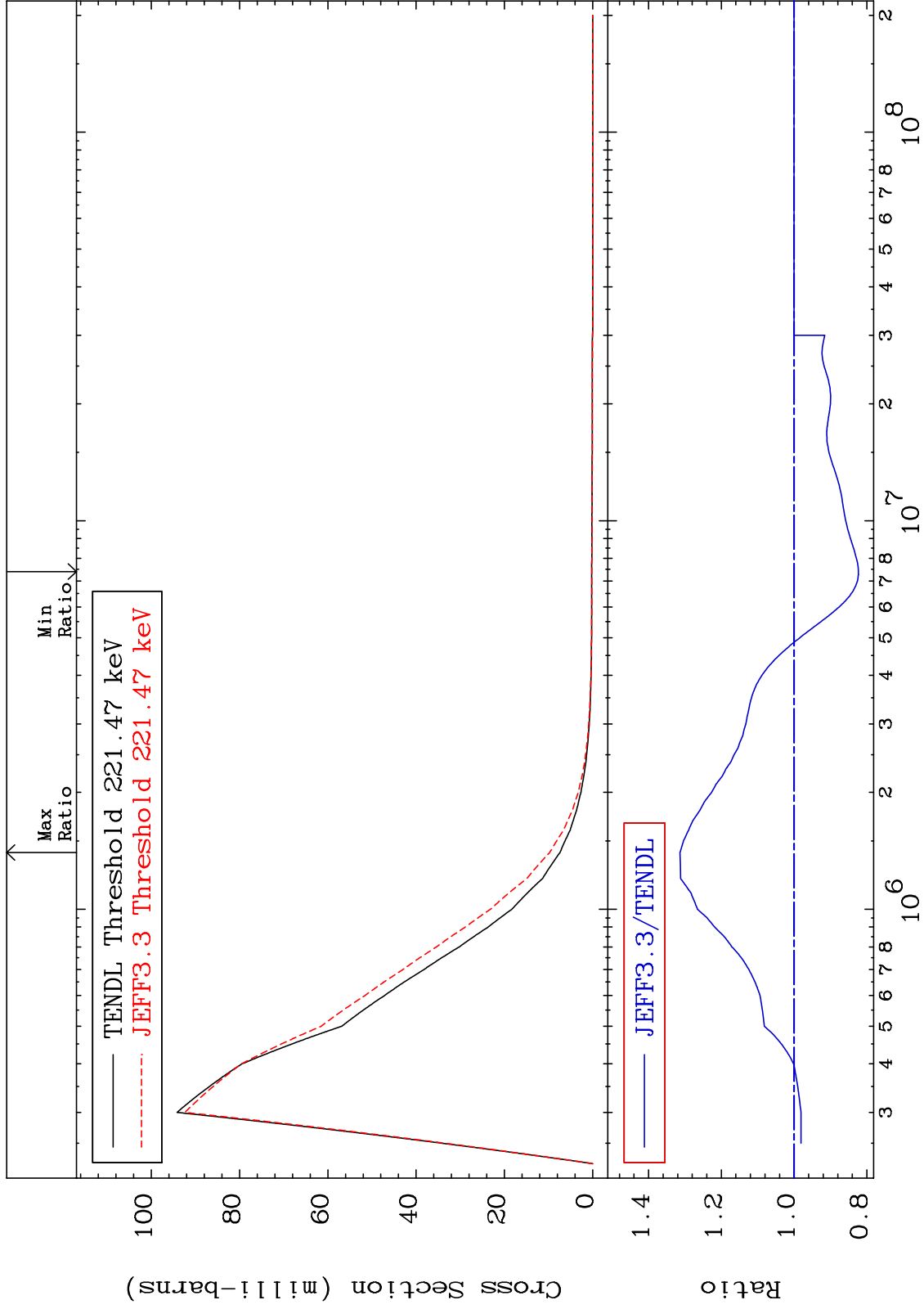




MAT 6246

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

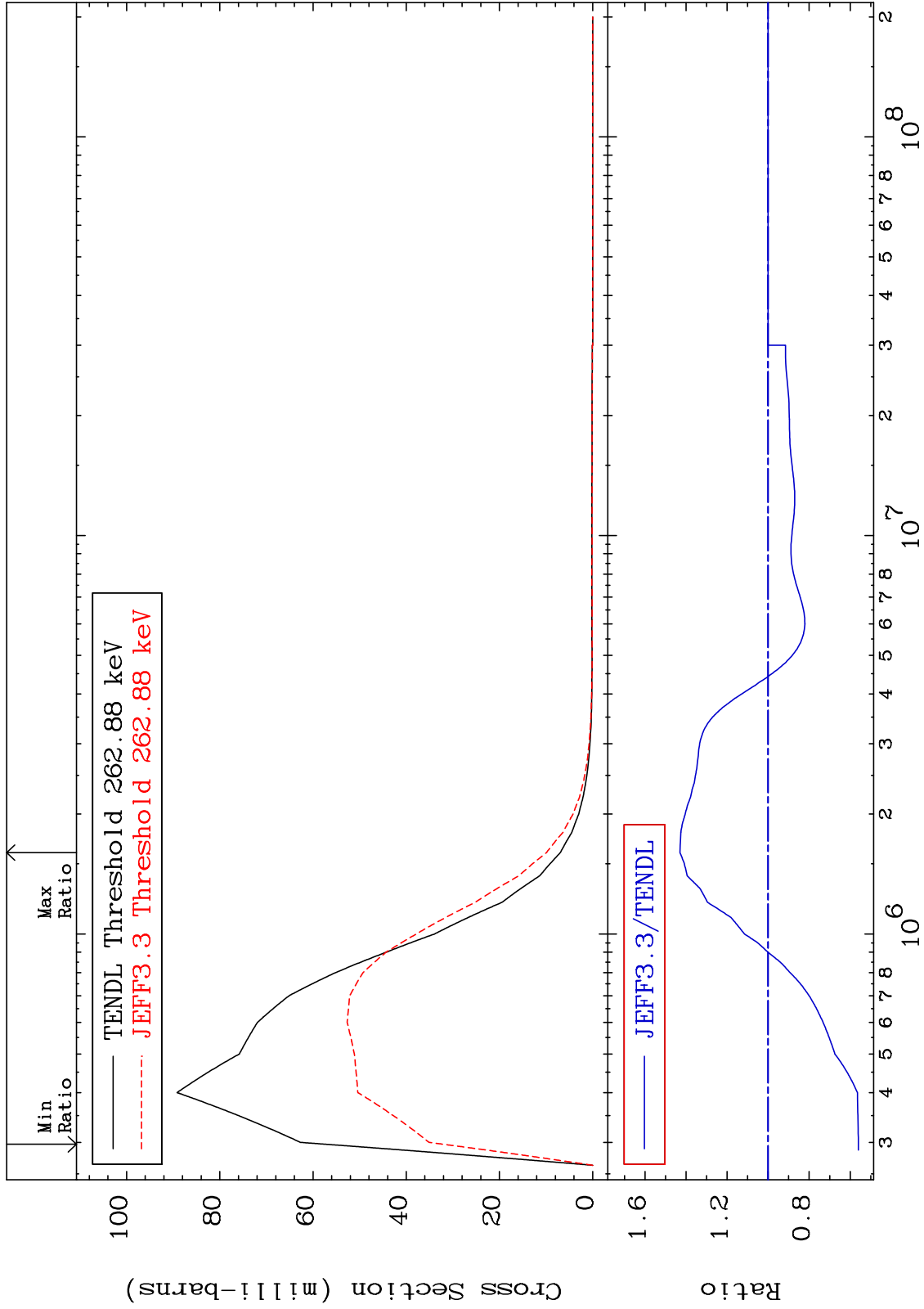
62-Sm-151  
-17.67 To 31.35 %



MAT 6246

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

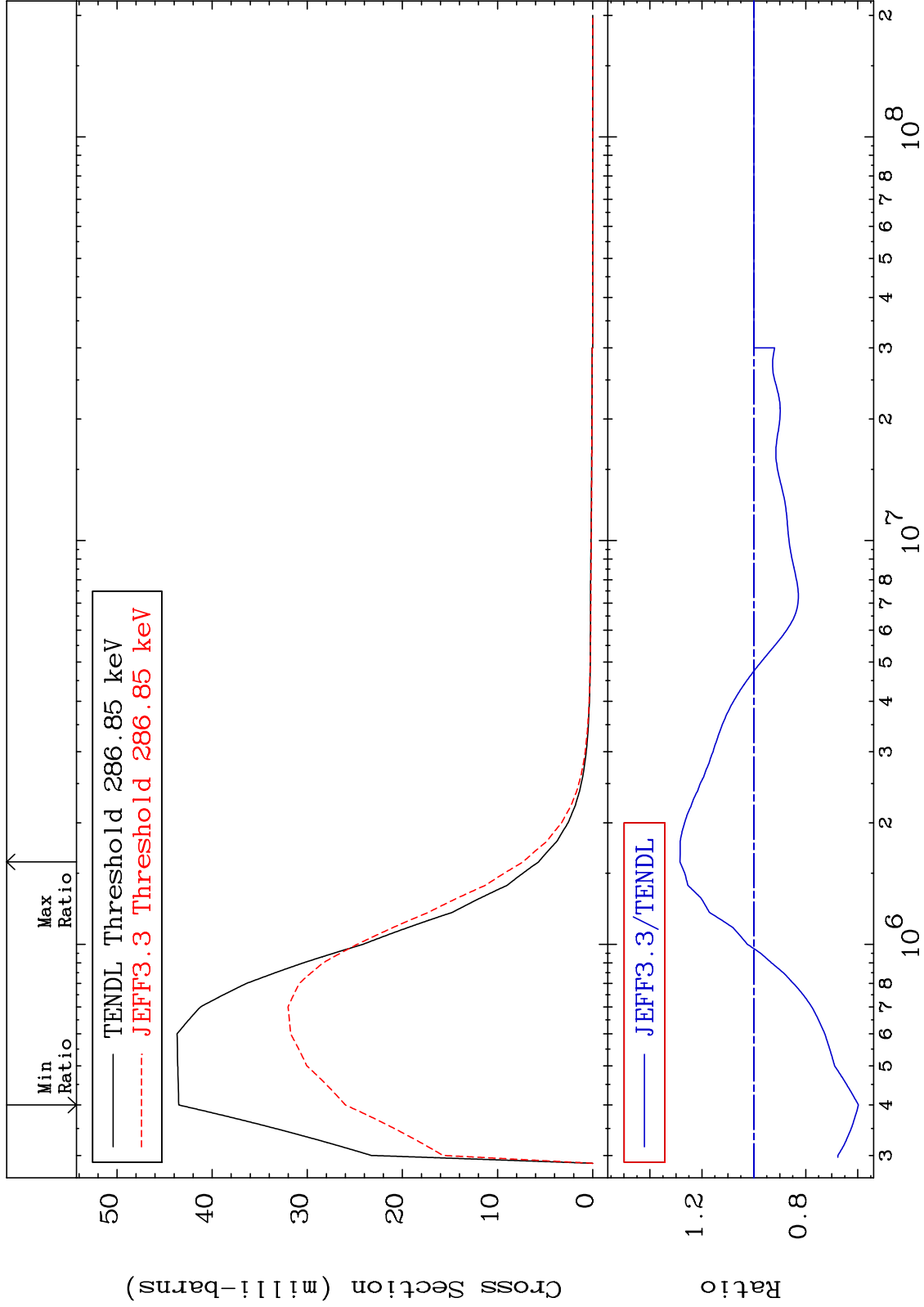
62-Sm-151  
-44.00 To 42.96 %

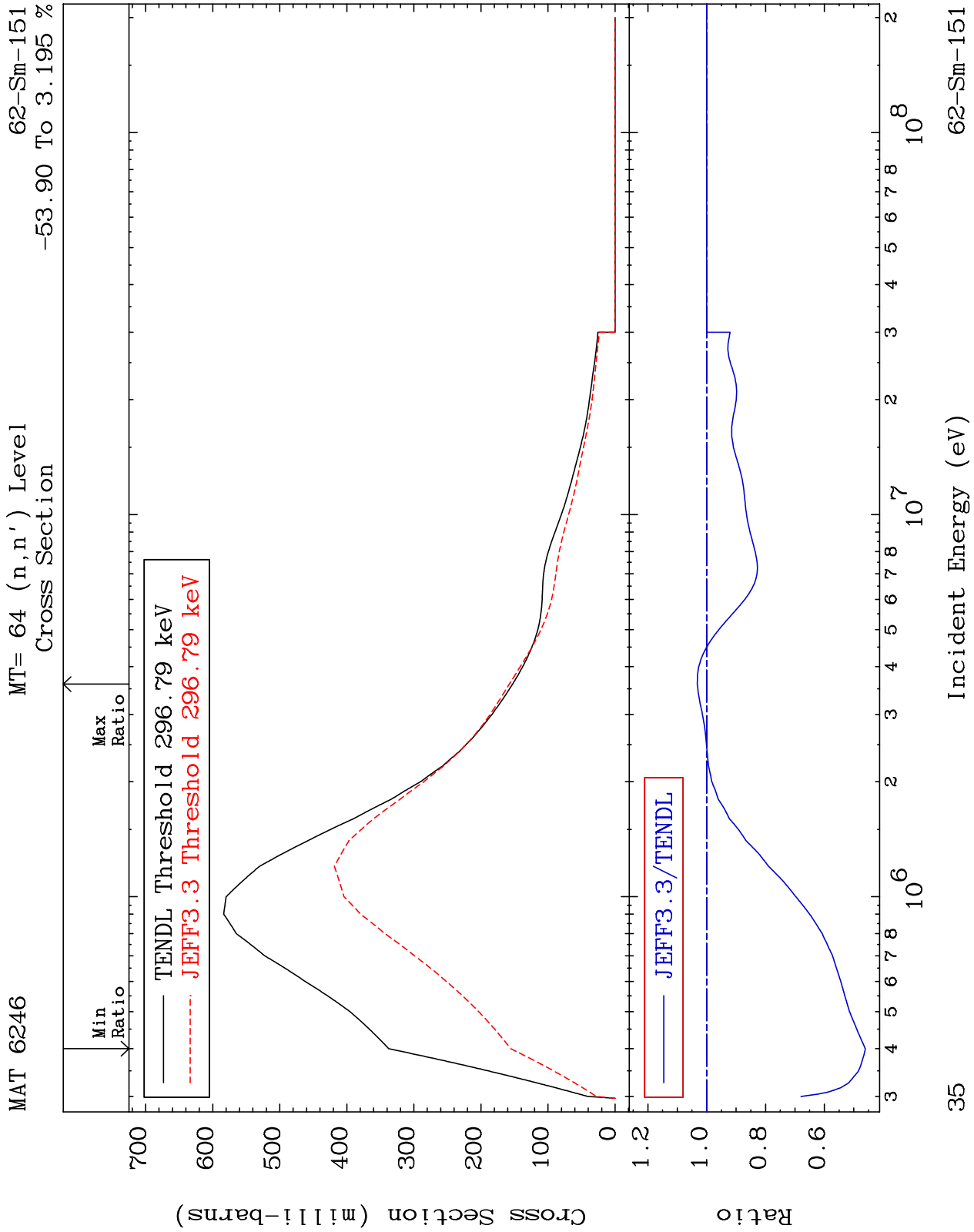


MAT 6246

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

62-Sm-151  
-40.26 To 28.42 %

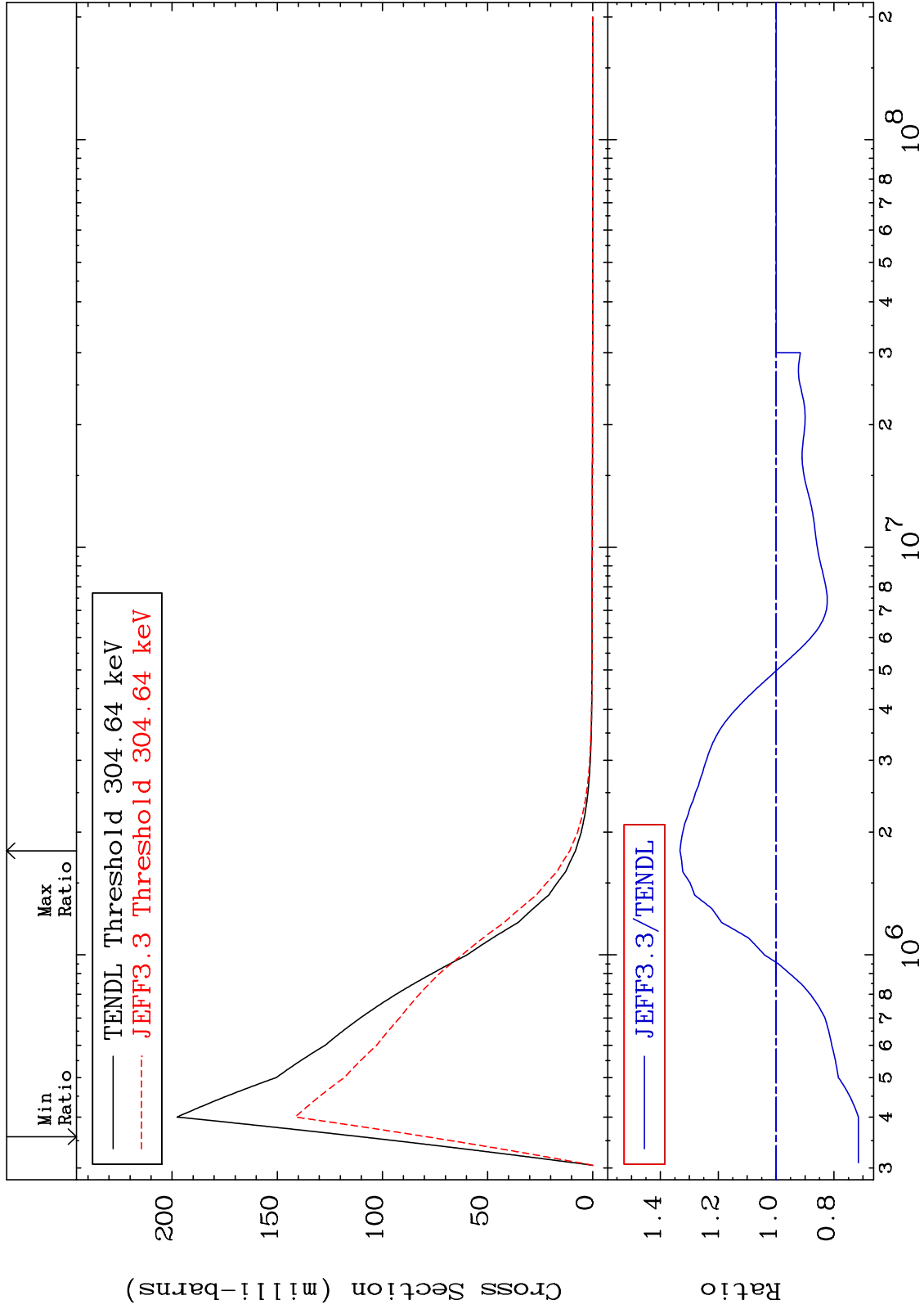




MAT 6246

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

62-Sm-151  
-28.44 To 33.21 %



36

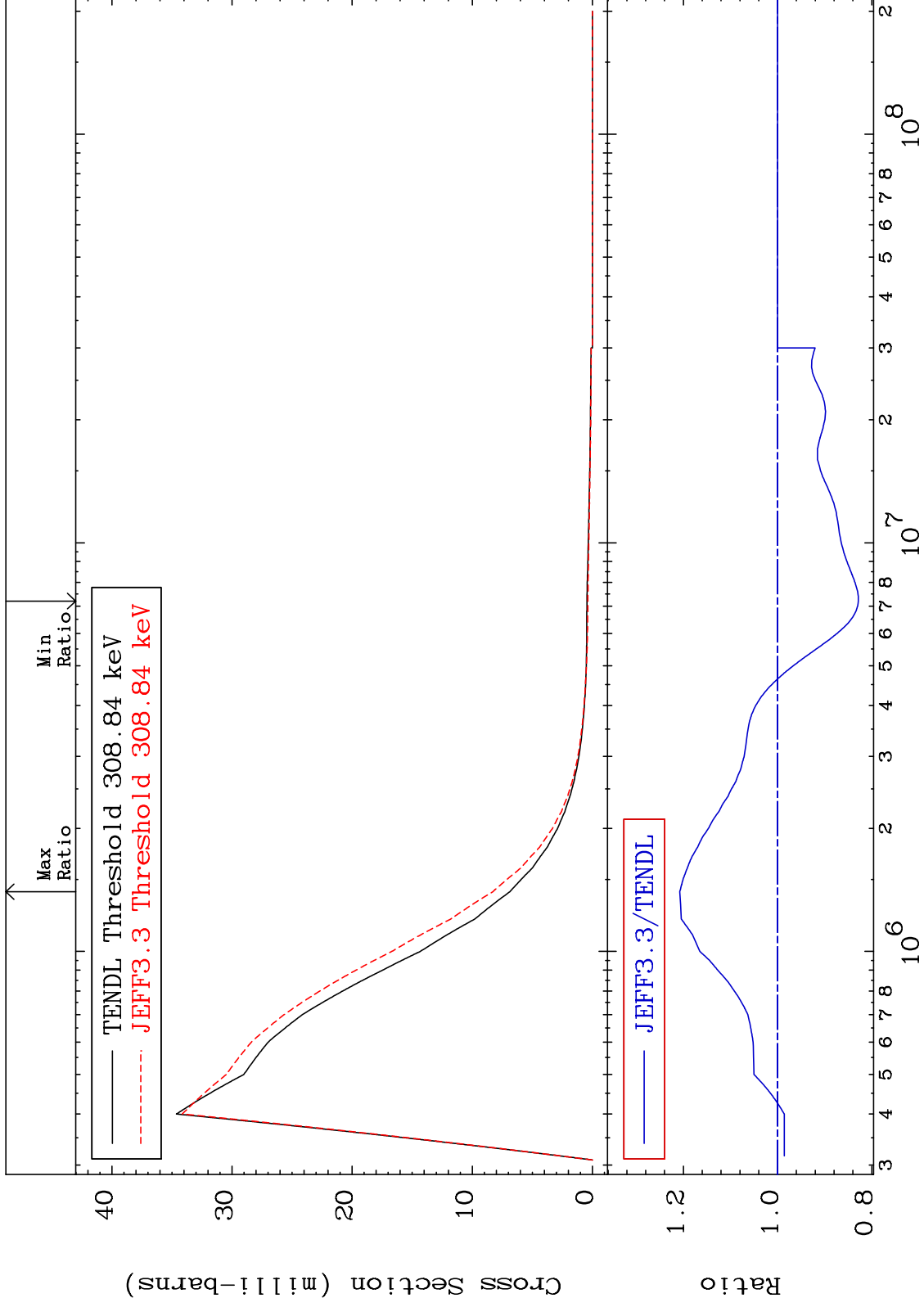
Incident Energy (eV)

62-Sm-151

MAT 6246

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

62-Sm-151  
-17.15 To 20.76 %



37

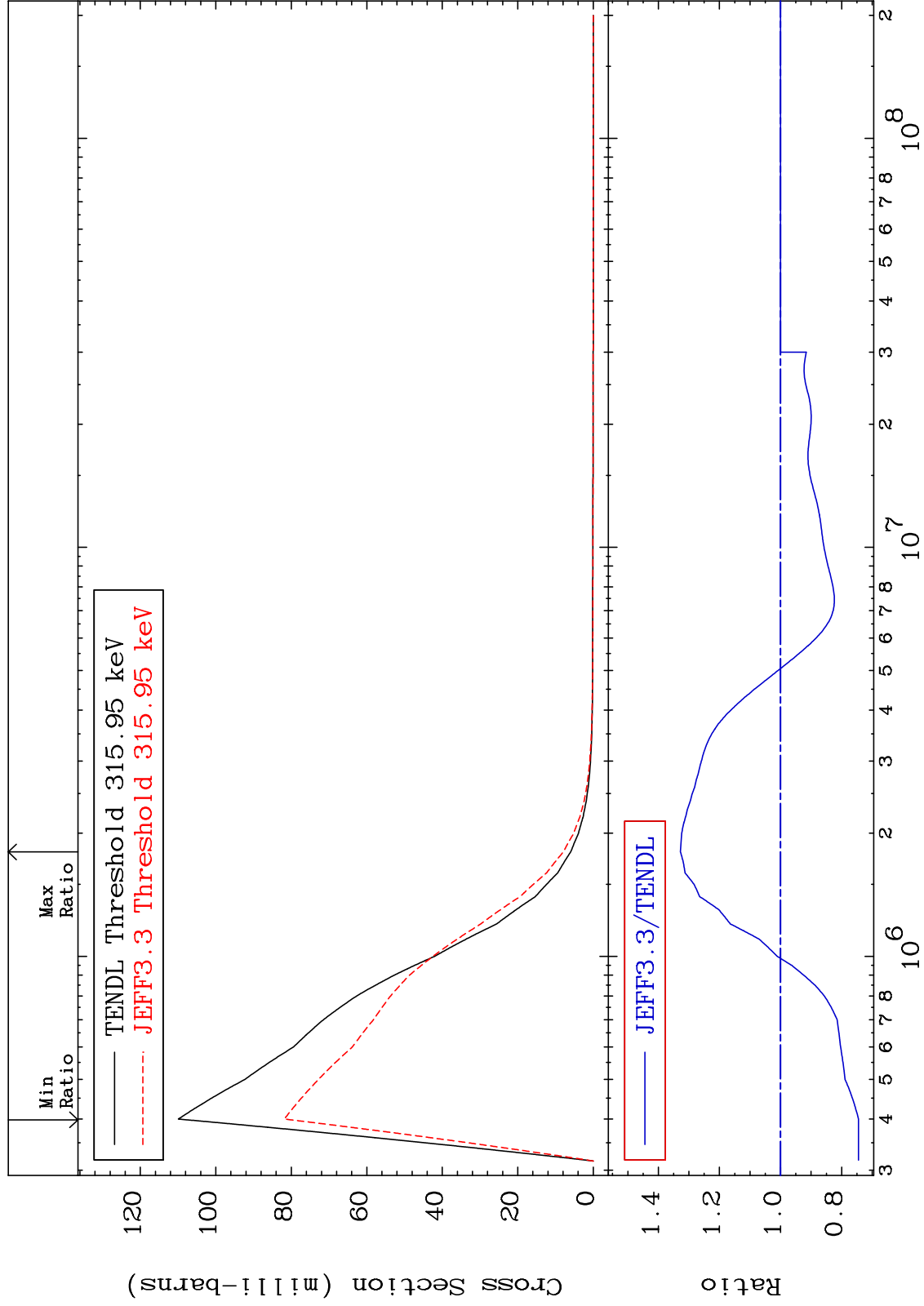
Incident Energy (eV)

62-Sm-151

MAT 6246

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

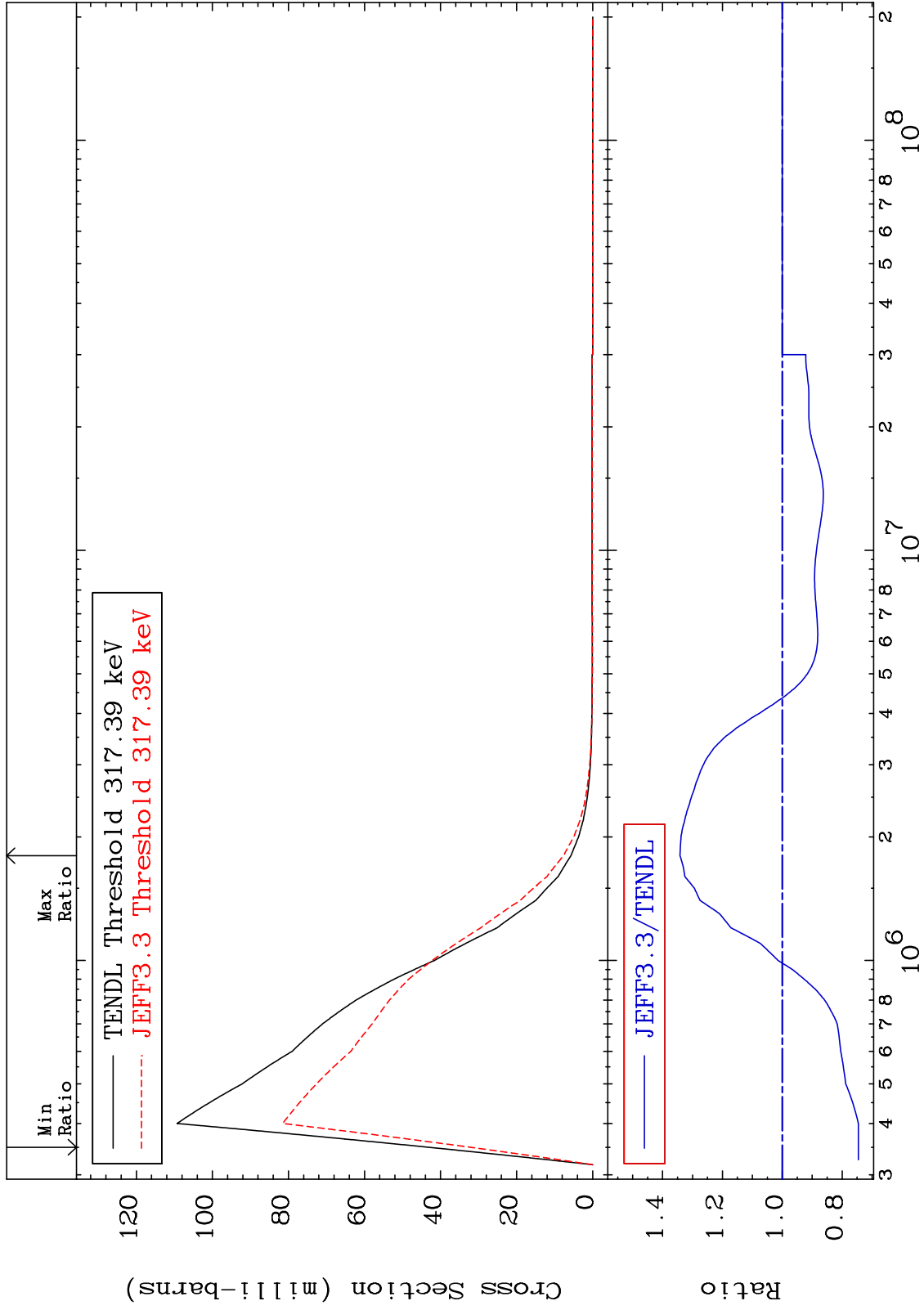
62-Sm-151  
-25.53 To 32.77 %



MAT 6246

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

62-Sm-151  
-25.43 To 34.18 %



39

Incident Energy (eV)

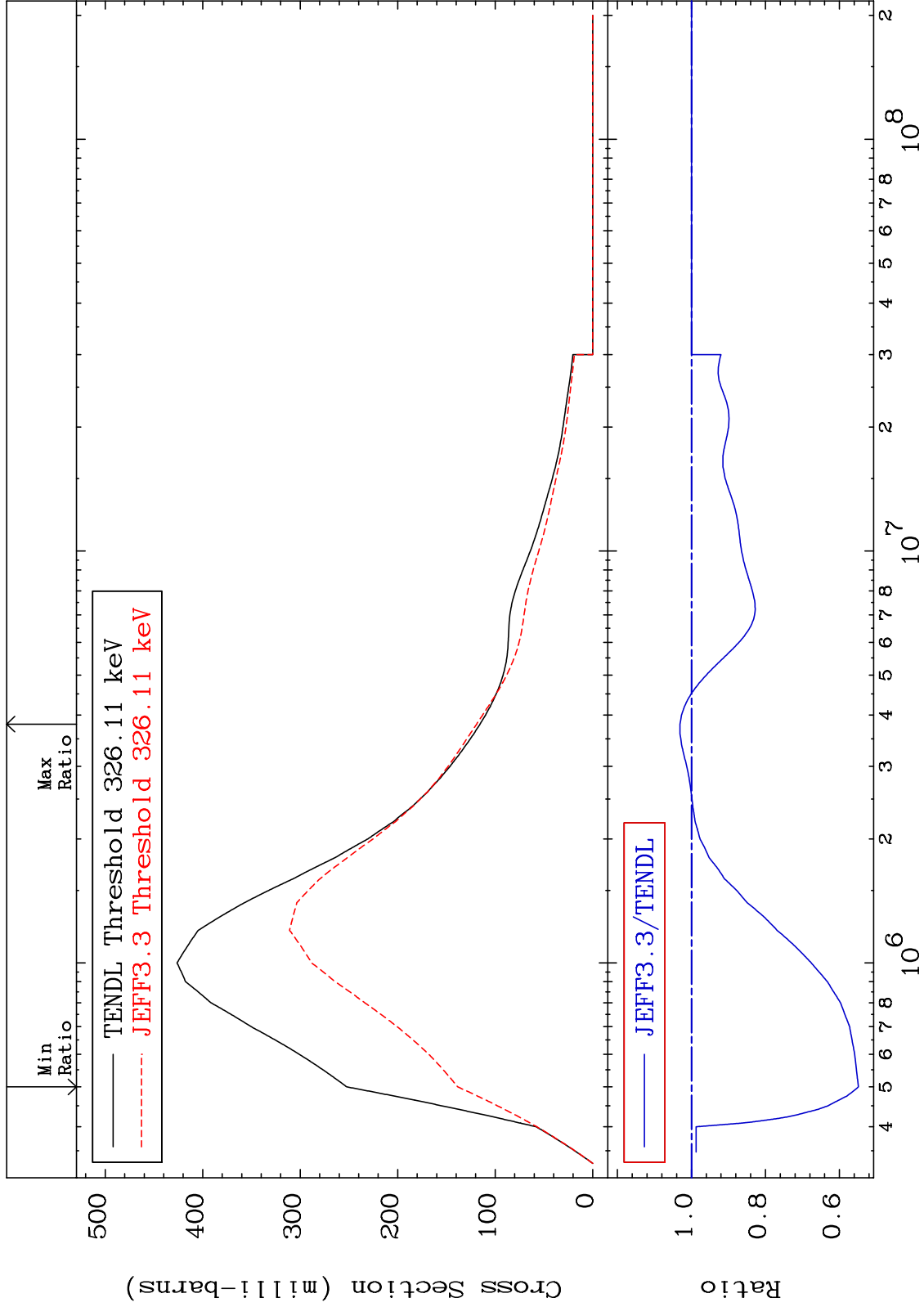
62-Sm-151



MAT 6246

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

62-Sm-151  
-45.12 To 3.086 %

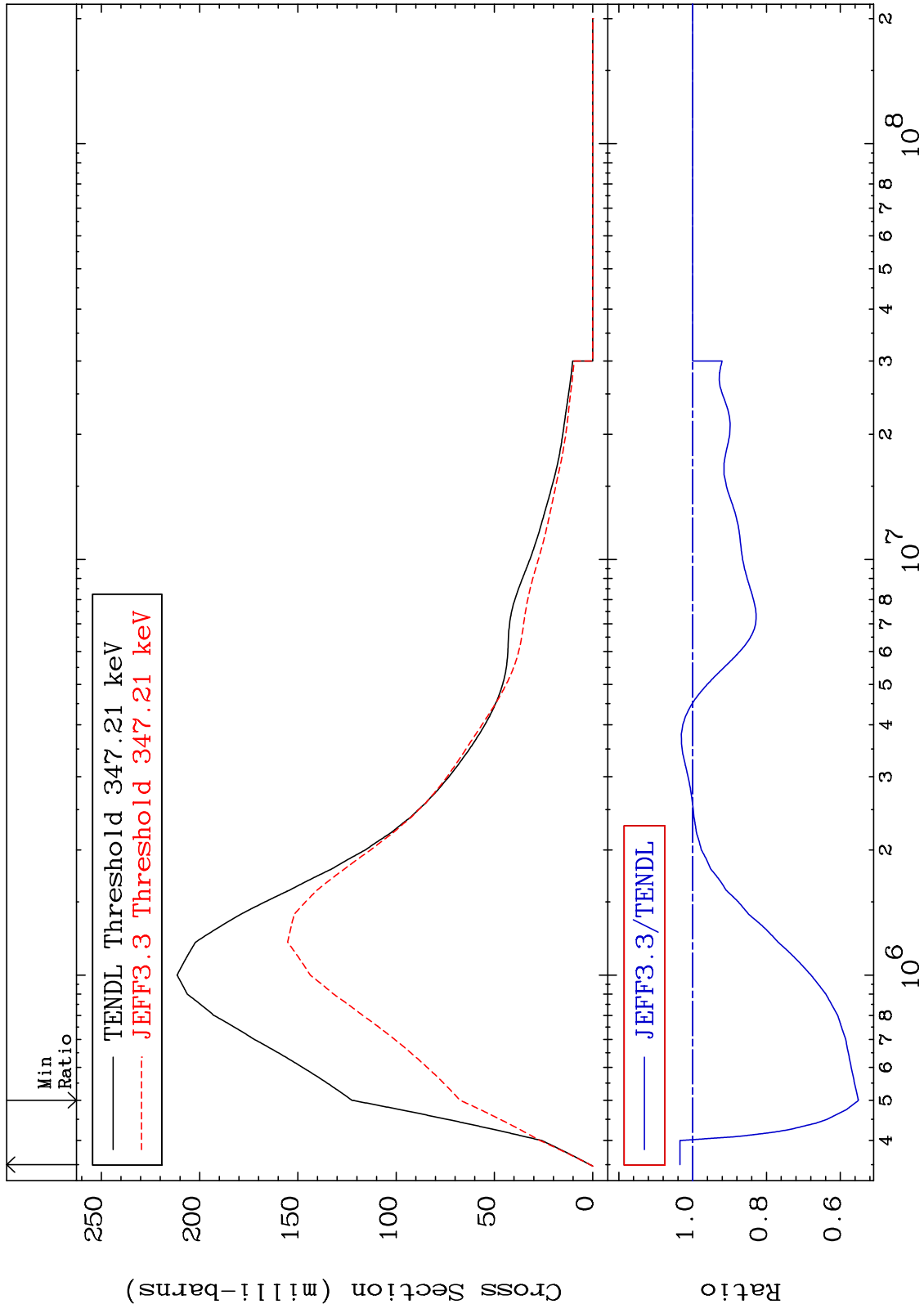


40

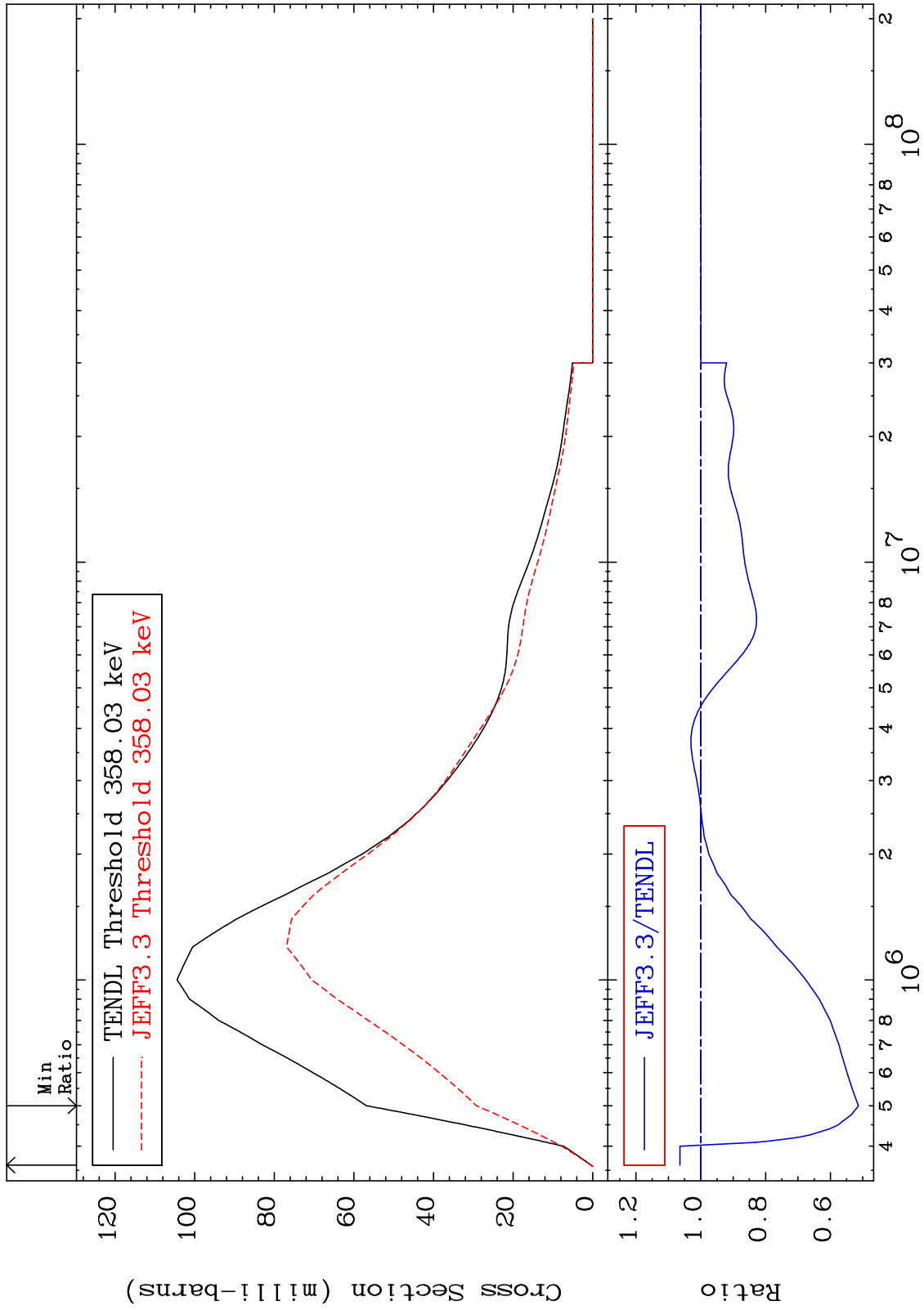
Incident Energy (eV)

62-Sm-151

MAT 6246      MT= 70 (n,n') Level      62-Sm-151  
 Cross Section      -44.90 To 3.423 %



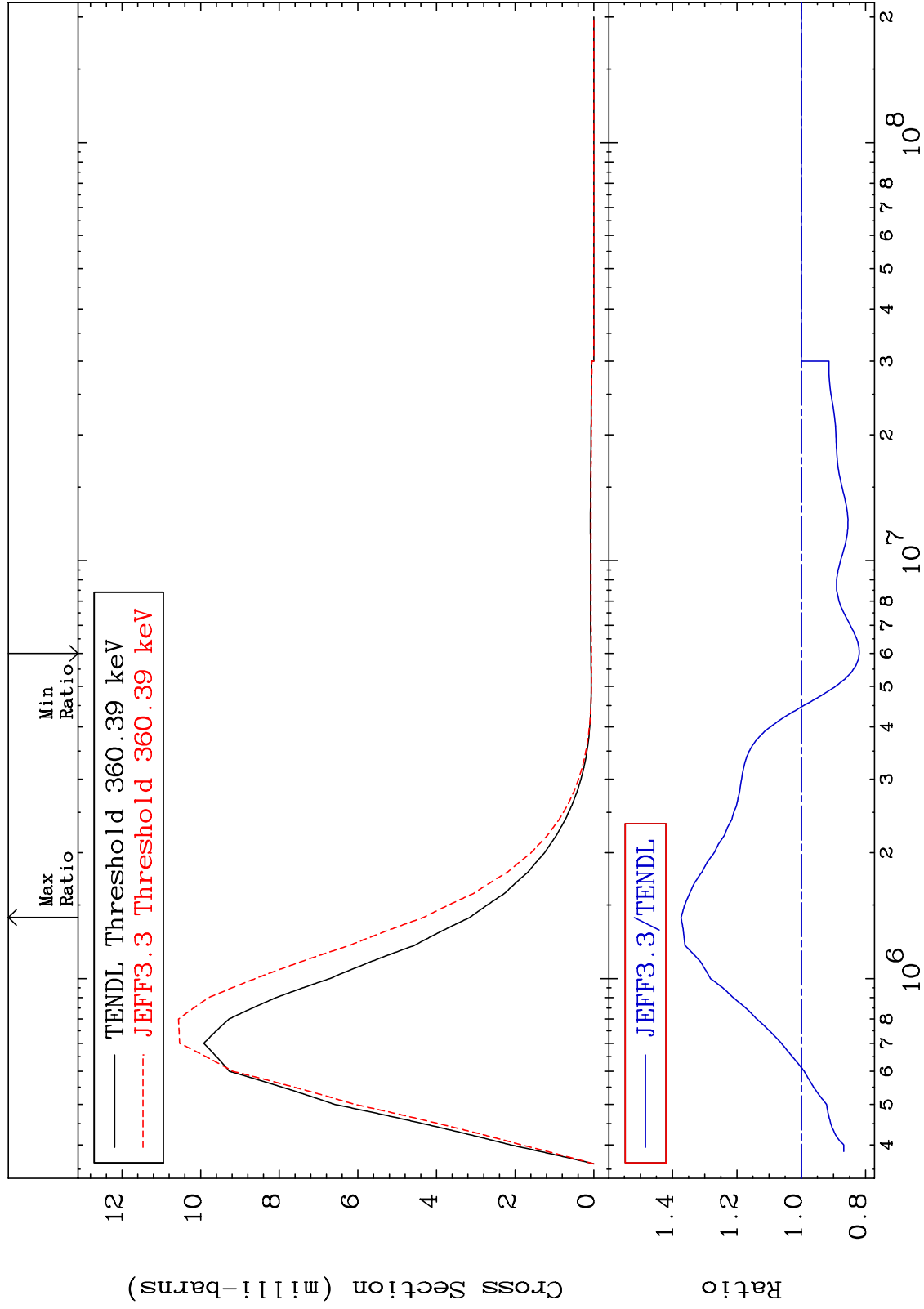
MAT 6246      MT= 71 (n,n') Level      62-Sm-151  
Cross Section      -48.64 To 6.408 %



MAT 6246

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

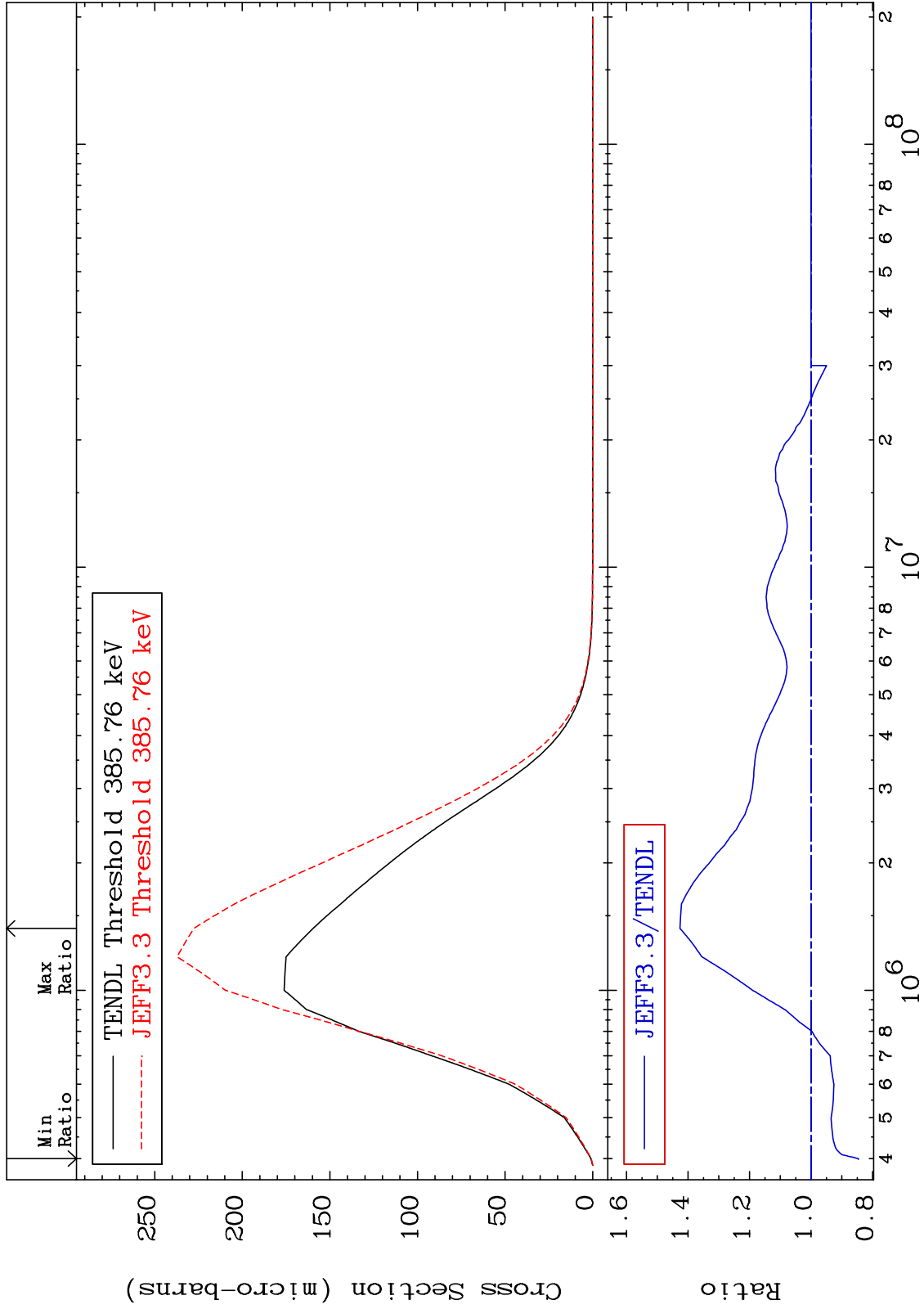
62-Sm-151  
-18.03 To 37.35 %



MAT 6246

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

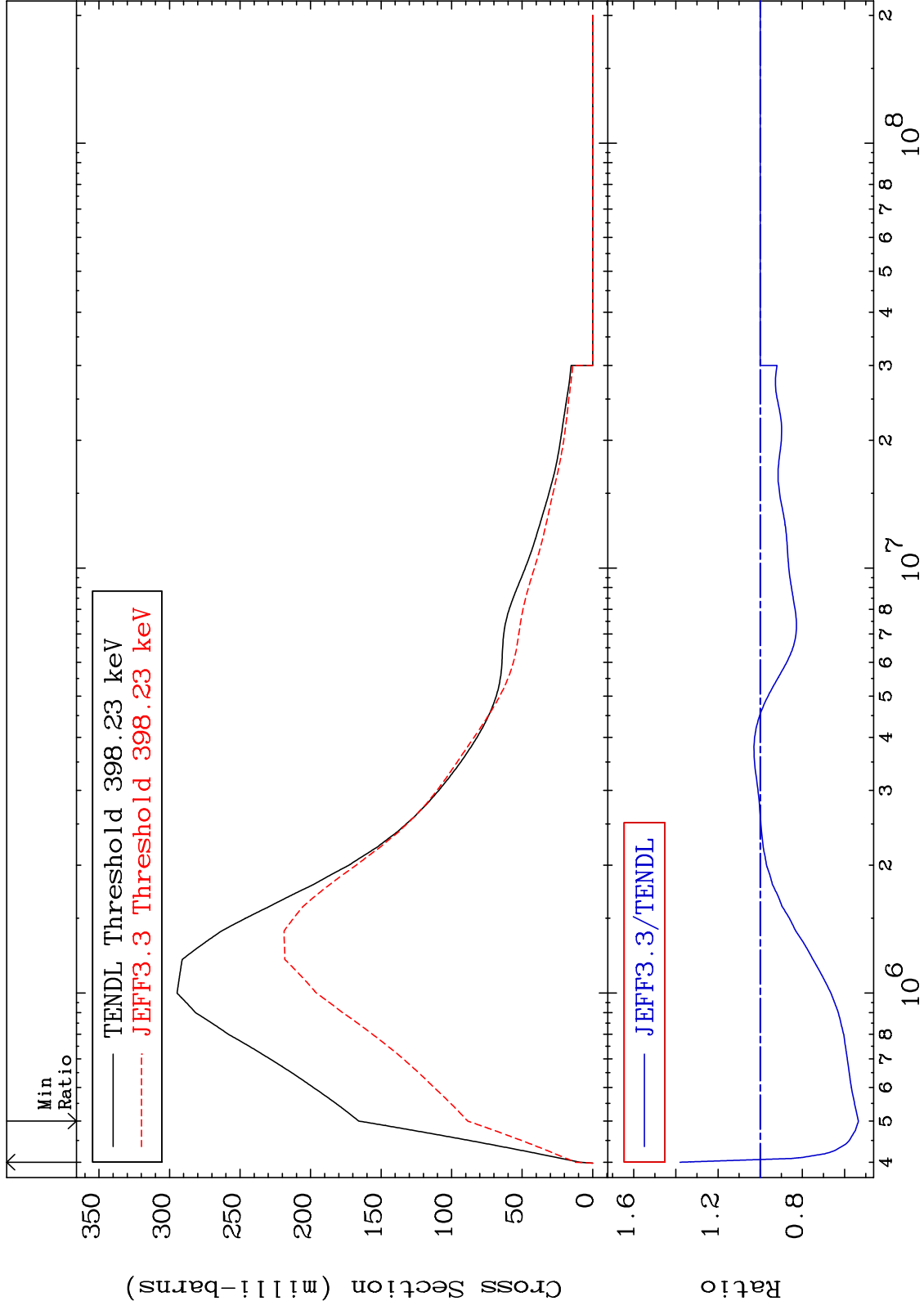
62-Sm-151  
-15.39 To 42.62 %



MAT 6246

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

62-Sm-151  
-46.56 To 38.03 %



45

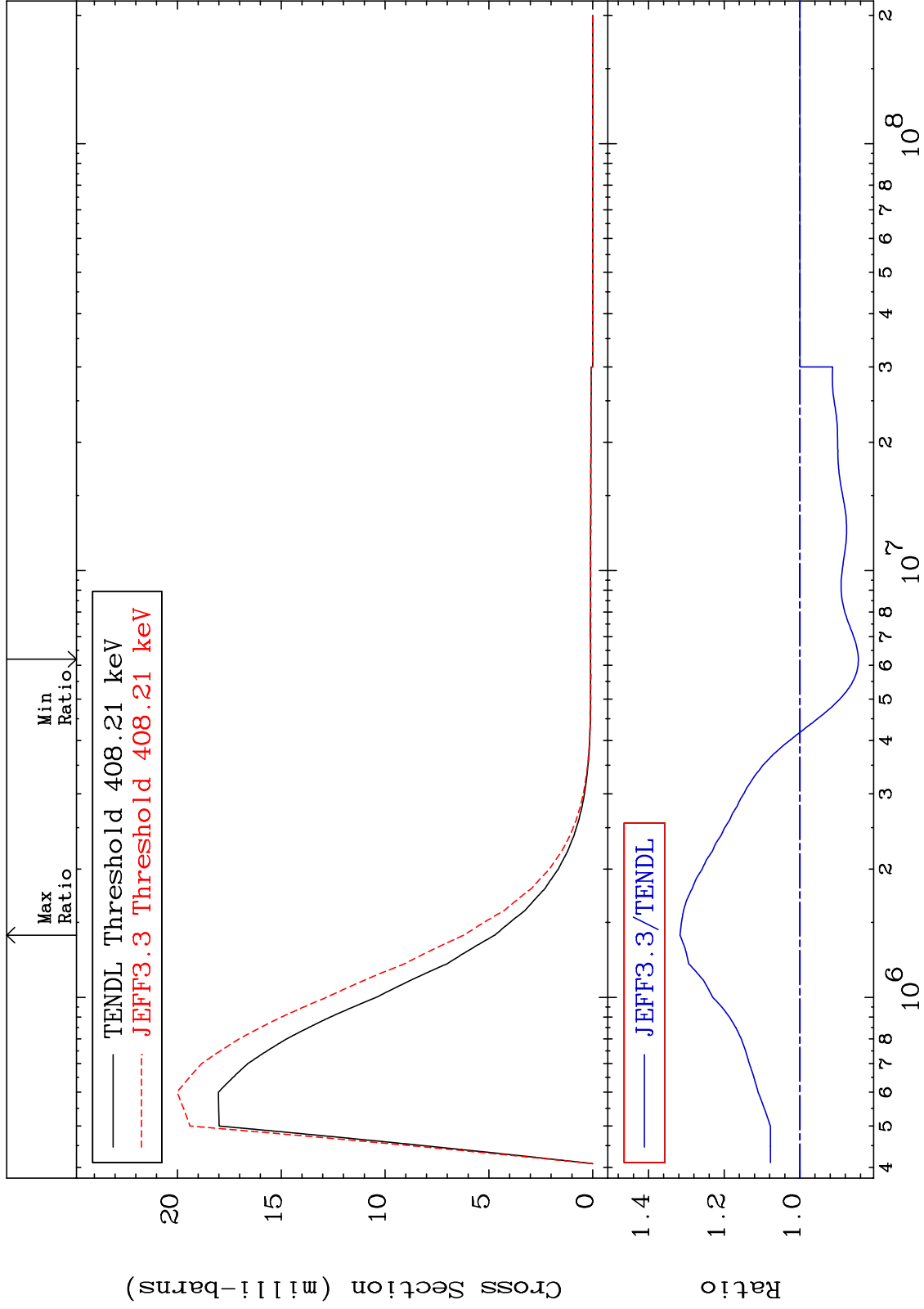
Incident Energy (eV)

62-Sm-151

MAT 6246

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

62-Sm-151  
-15.46 To 31.68 %



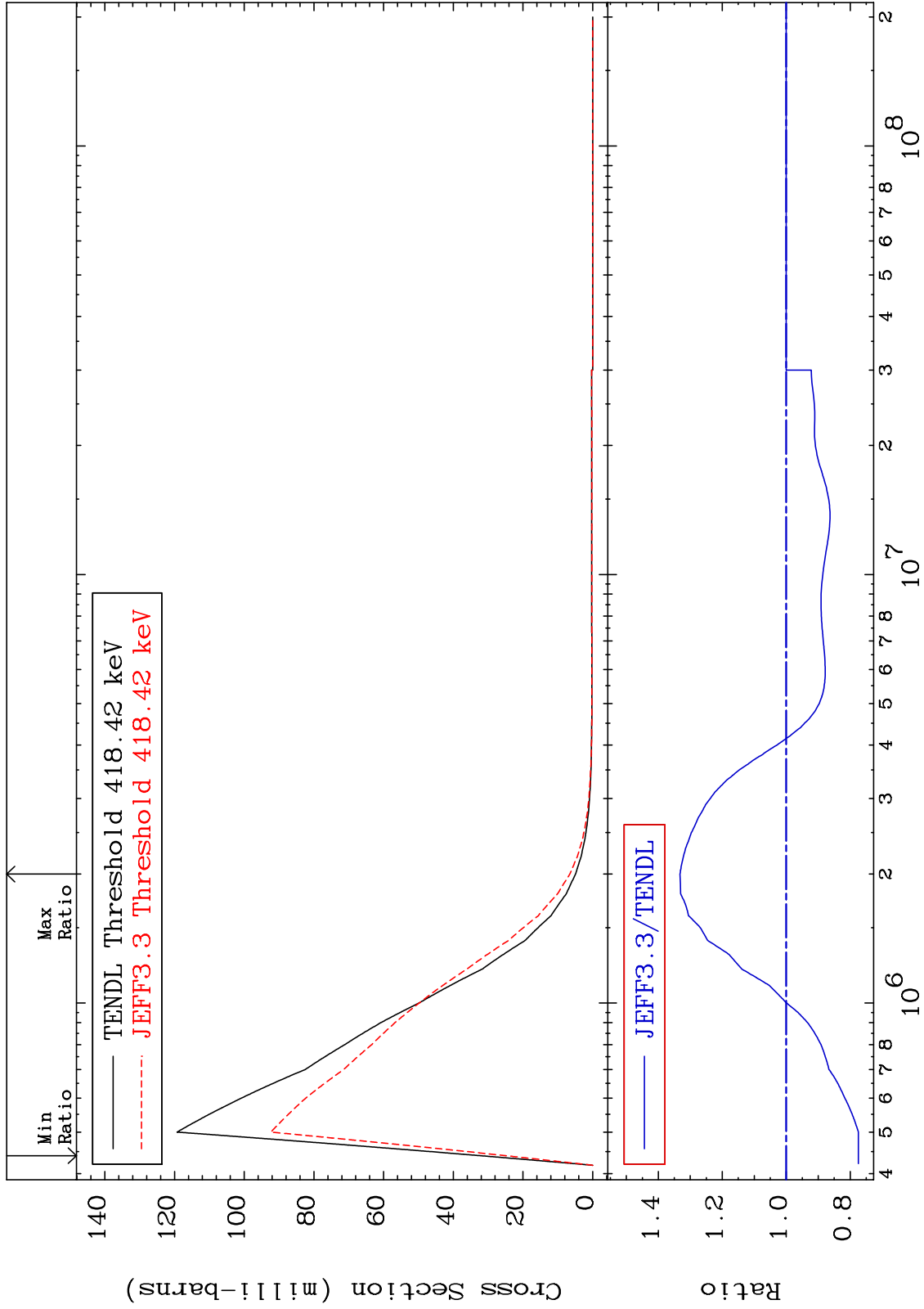
46

62-Sm-151

MAT 6246

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

62-Sm-151  
-22.57 To 33.22 %



47

Incident Energy (eV)

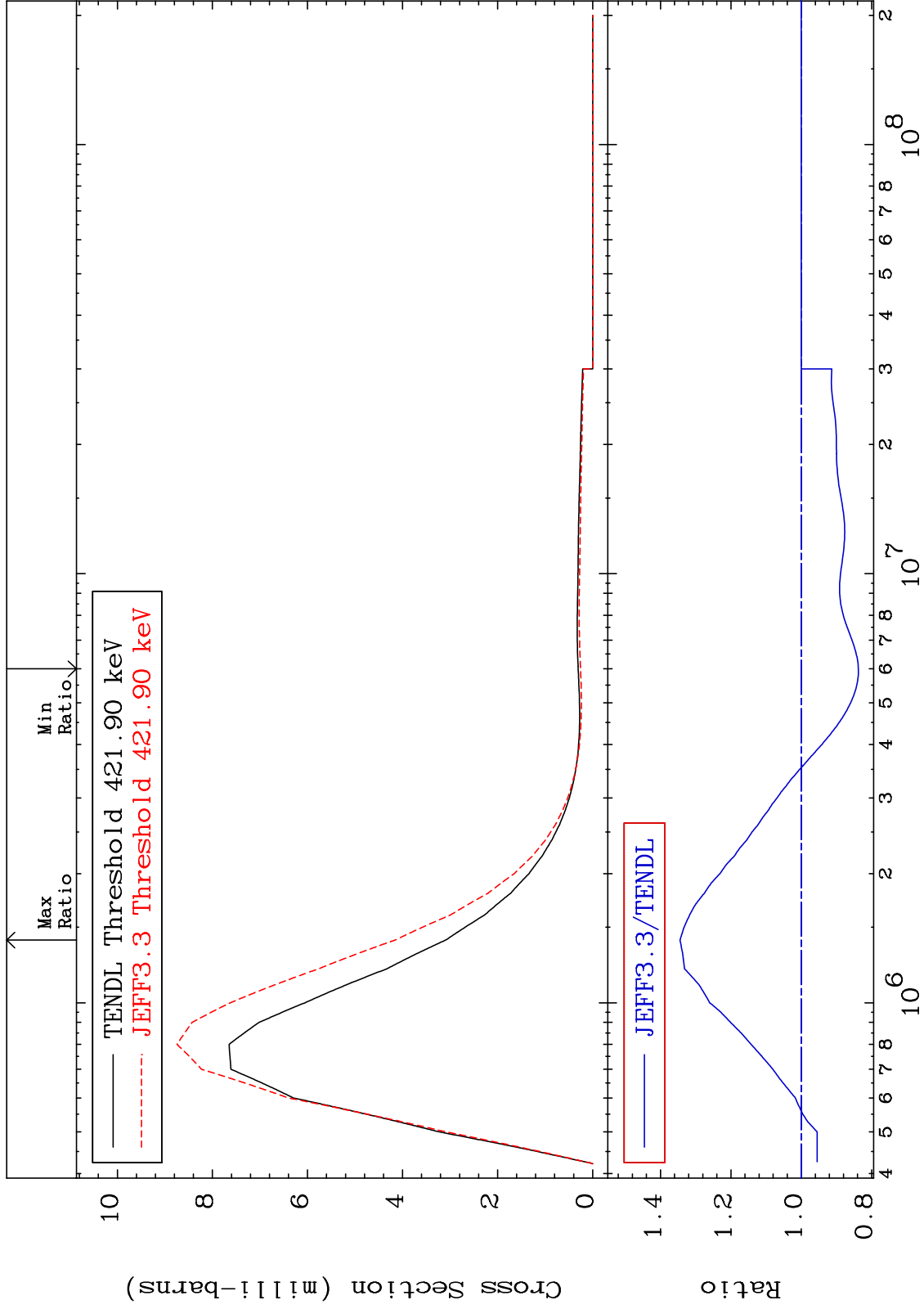
62-Sm-151



MAT 6246

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

62-Sm-151  
-16.24 To 34.46 %



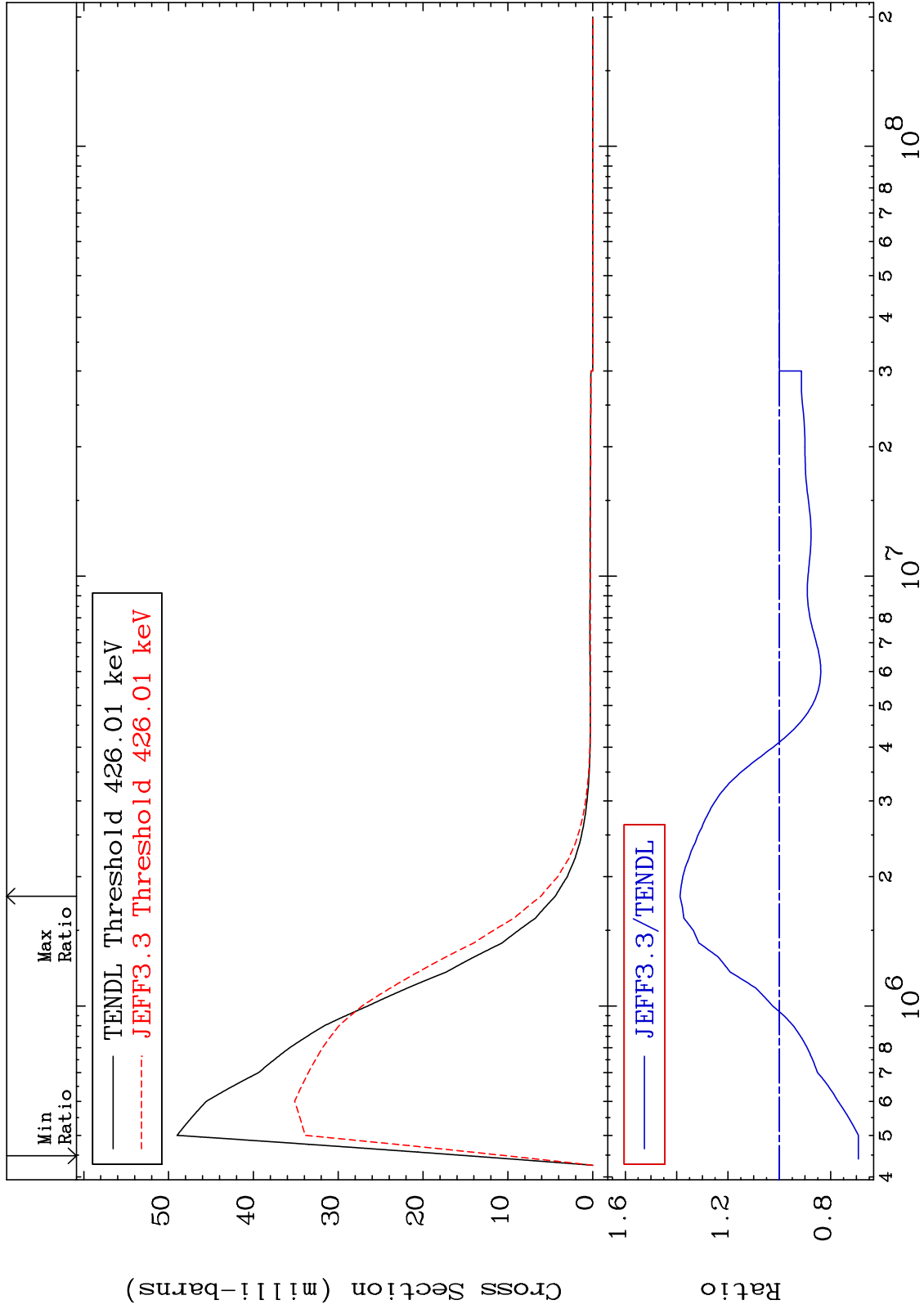
48

62-Sm-151

MAT 6246

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

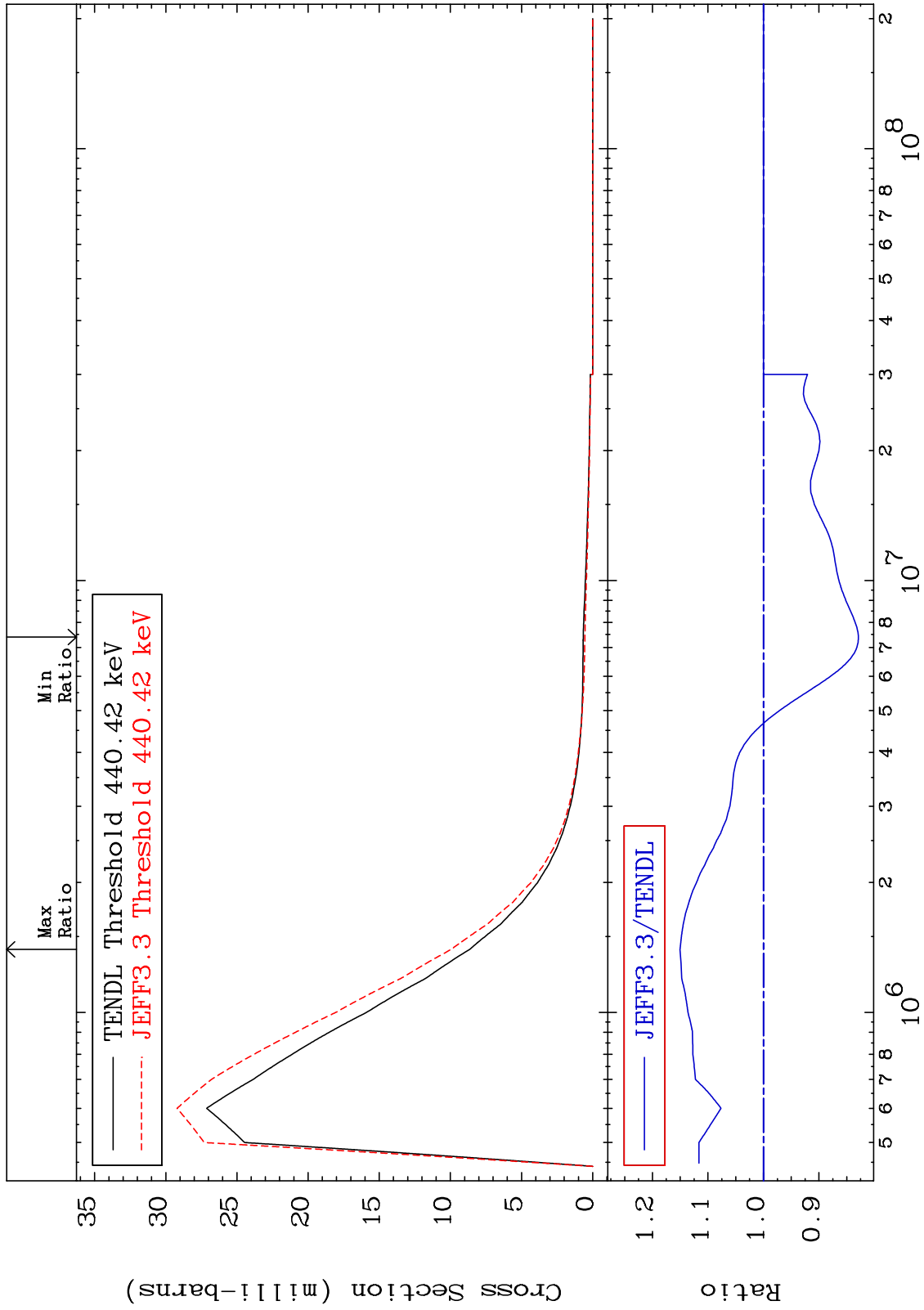
62-Sm-151  
-30.80 To 38.69 %



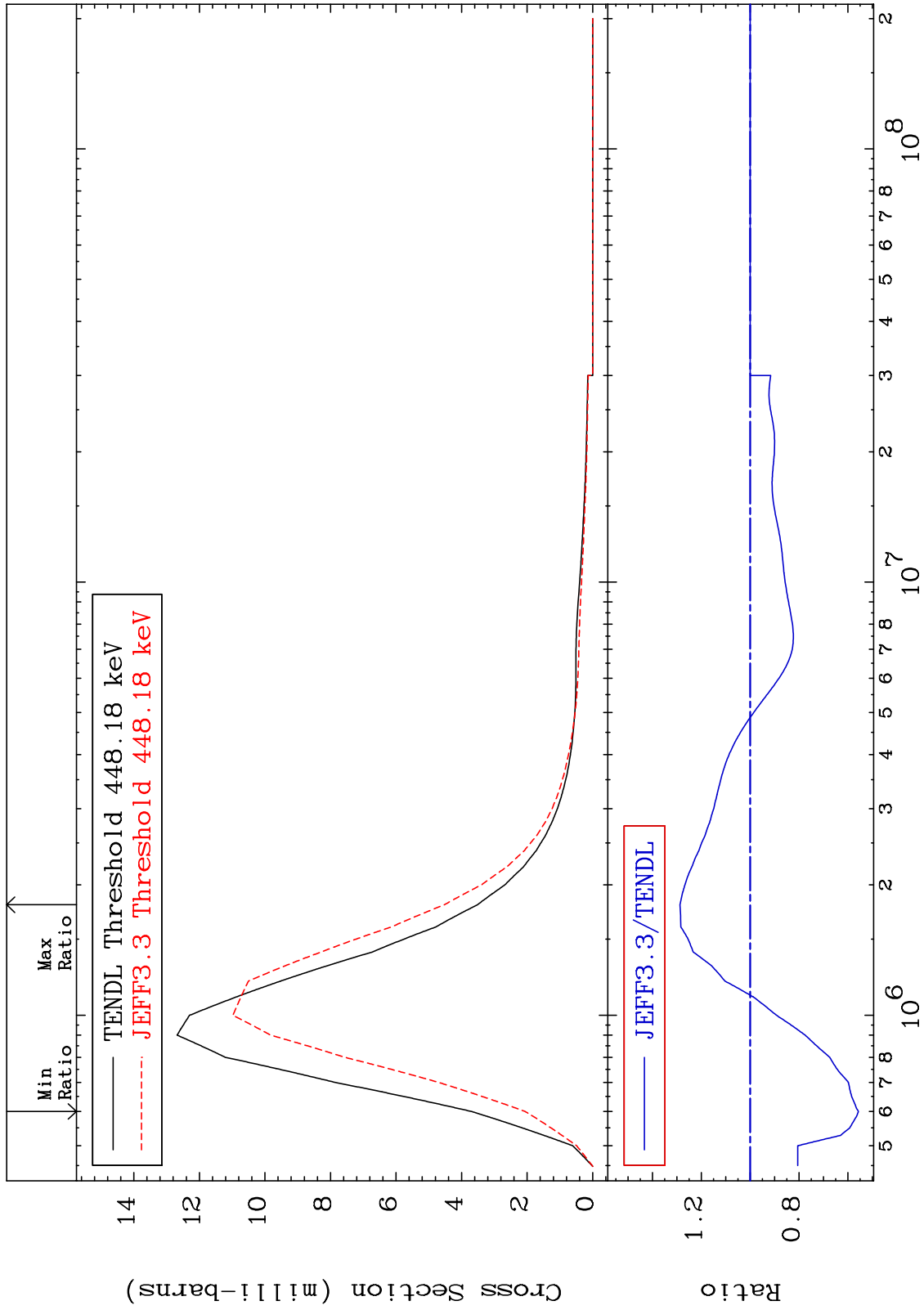
49

62-Sm-151

MAT 6246 MT= 79 (n,n') Level 62-Sm-151  
 Cross Section -17.10 To 15.03 %



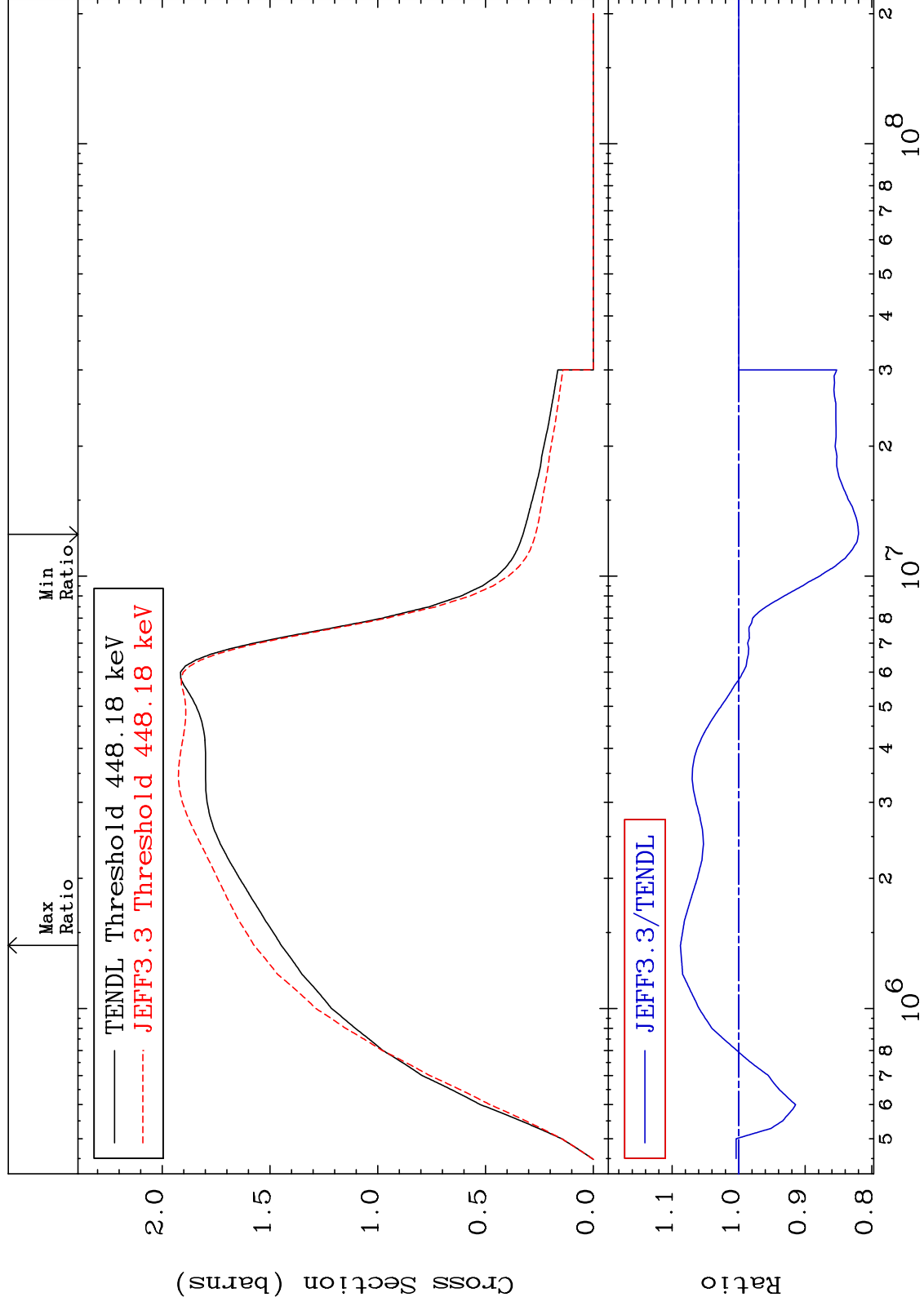
MAT 6246 MT= 80 (n,n') Level  
 Cross Section 62-Sm-151  
 -44.29 To 28.71 %



MAT 6246

(n, n') Continuum  
Cross Section

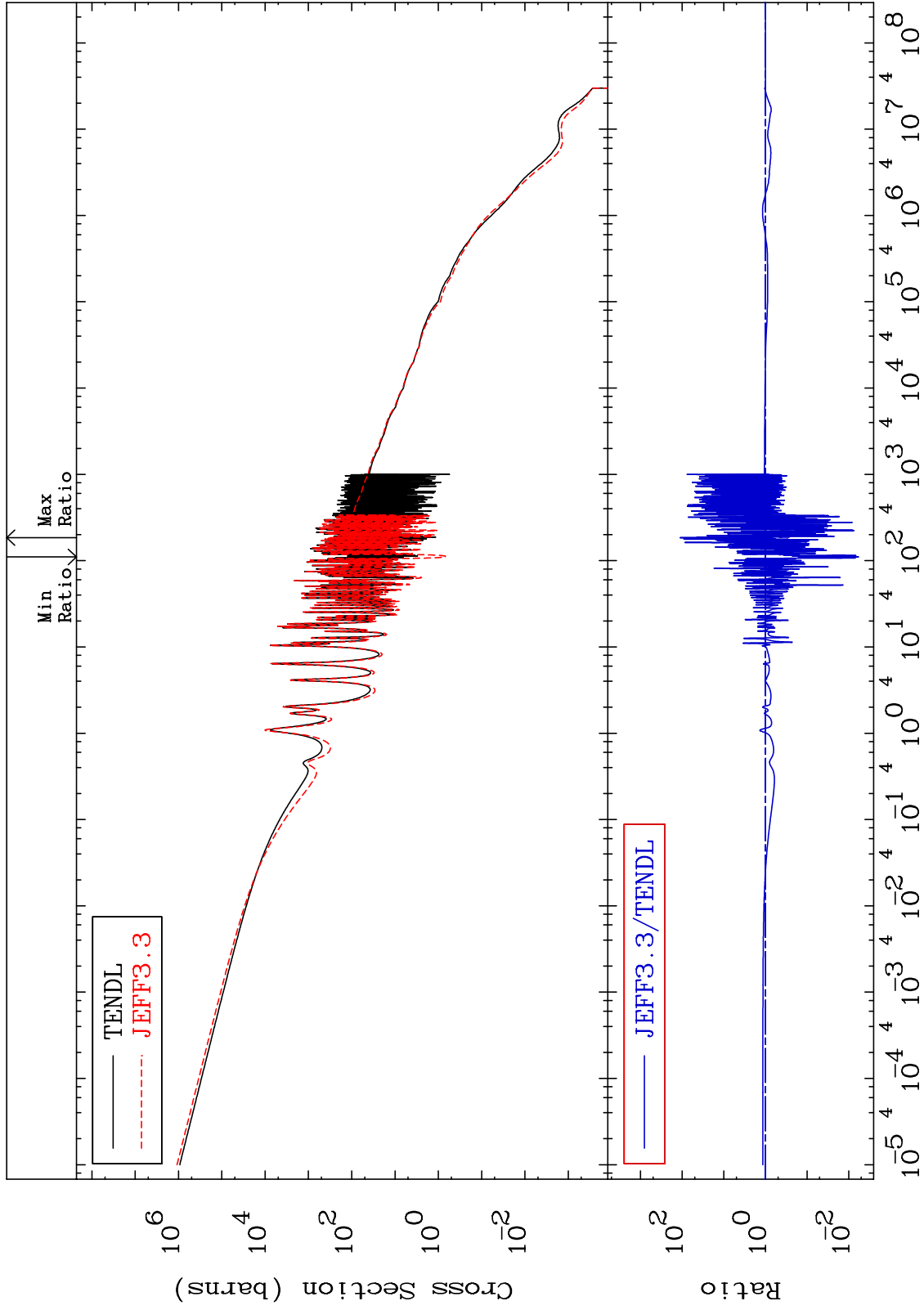
62-Sm-151  
-18.00 To 8.747 %



MAT 6246

(n,  $\gamma$ )  
Cross Section

62-Sm-151  
-99.41 To 9999. %



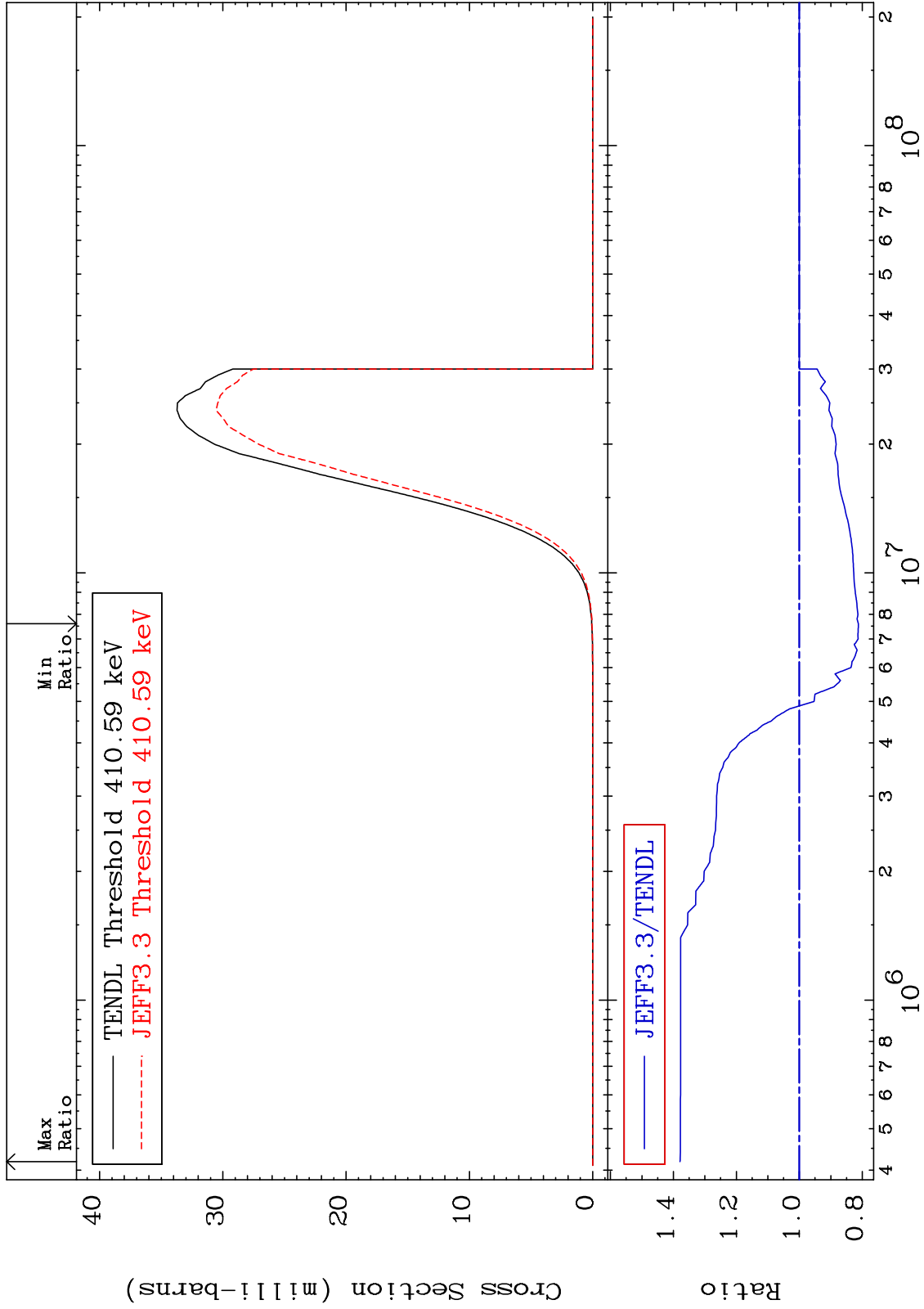
MAT 6246

(n,p)

62-Sm-151

Cross Section

-18.78 To 37.89 %



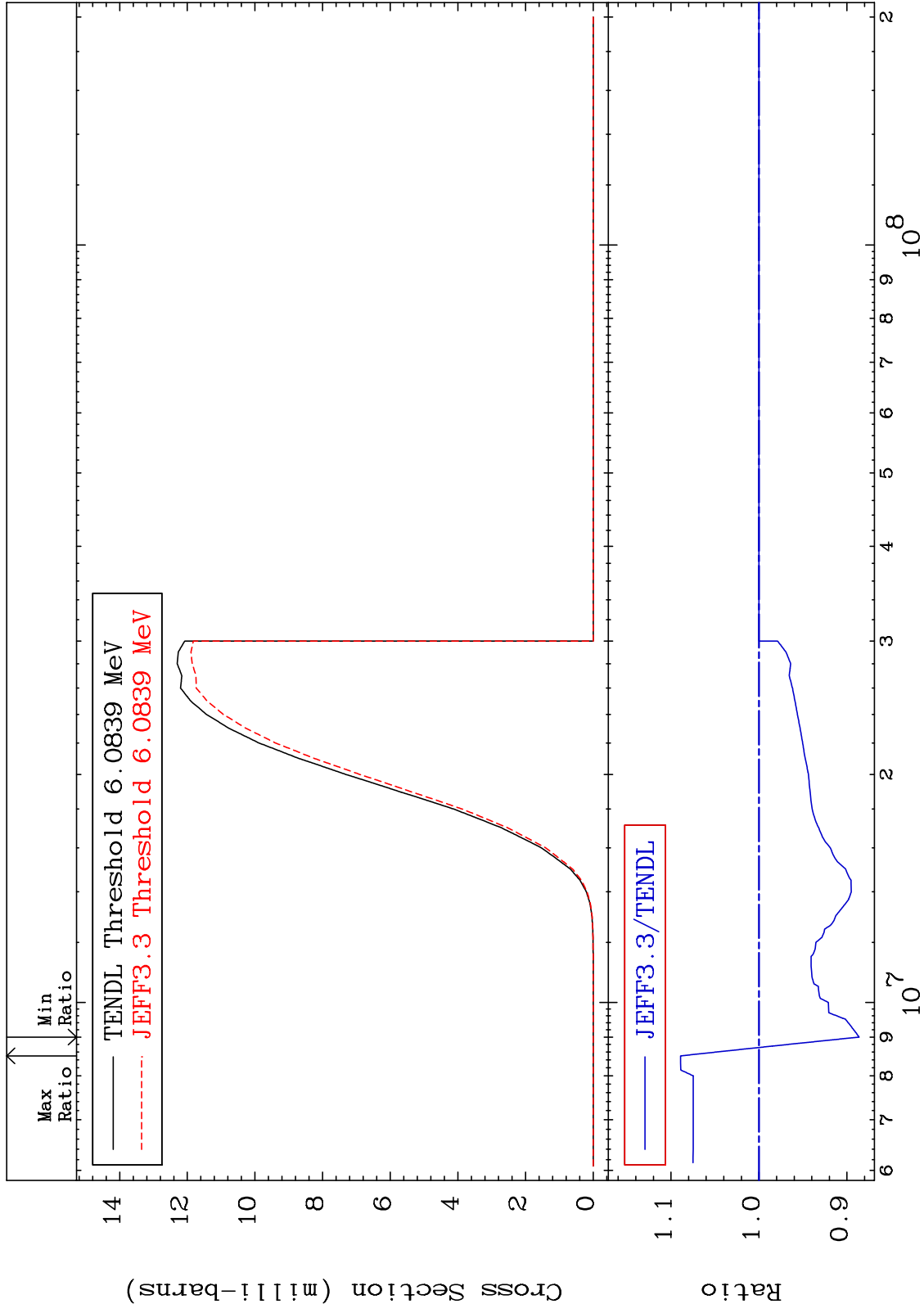
MAT 6246

(n, d)

62-Sm-151

Cross Section

-11.38 To 8.905 %



55

62-Sm-151

62-Sm-151



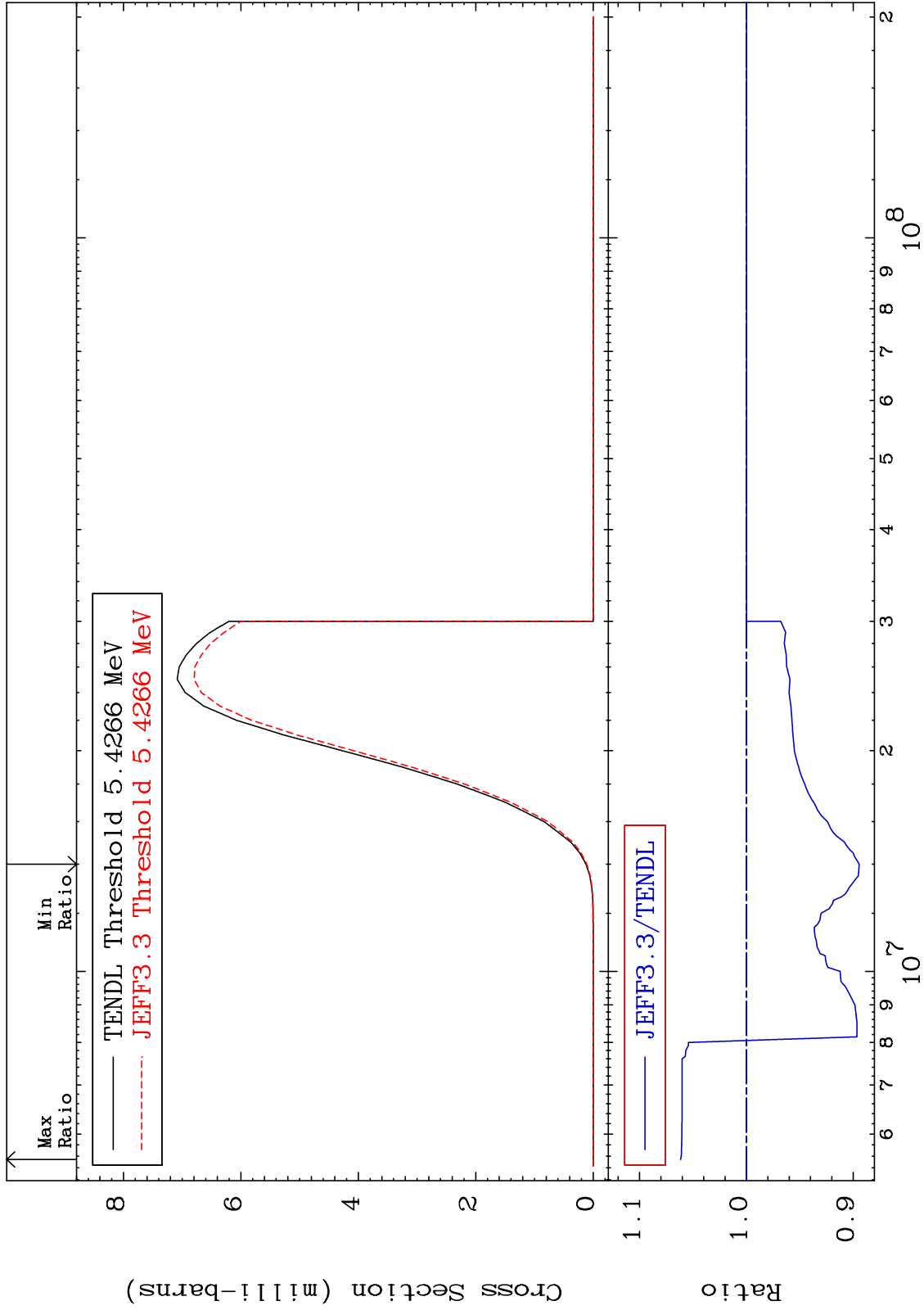
MAT 6246

(n, t)

62-Sm-151

Cross Section

-10.55 To 6.153 %



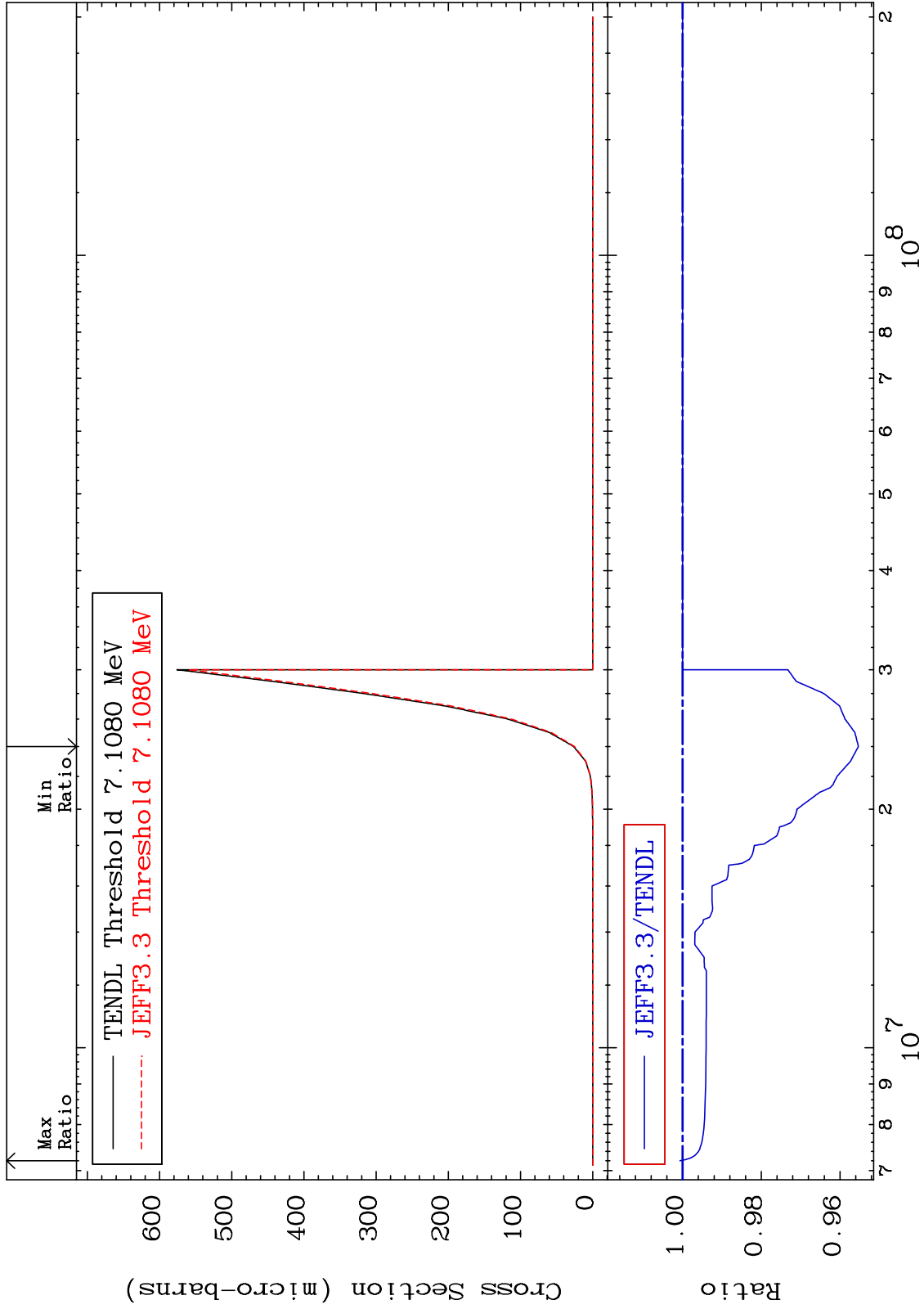
MAT 6246

(n, He-3)

62-Sm-151

Cross Section

-4.469 To 0.066 %



57

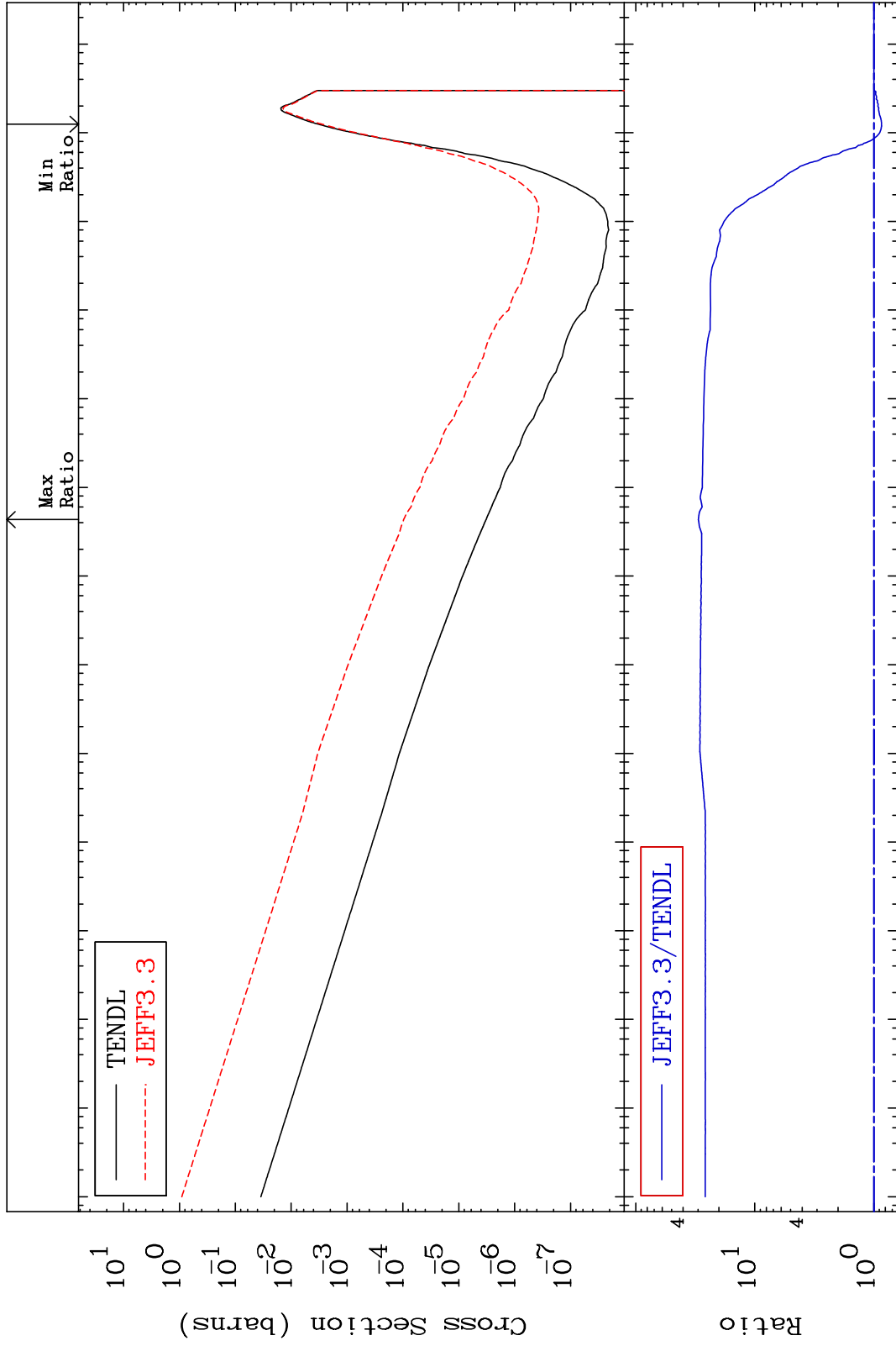
Incident Energy (eV)

62-Sm-151

MAT 6246

(n,  $\alpha$ )  
Cross Section

62-Sm-151  
-13.89 To 2880. %



58

Incident Energy (eV)

62-Sm-151

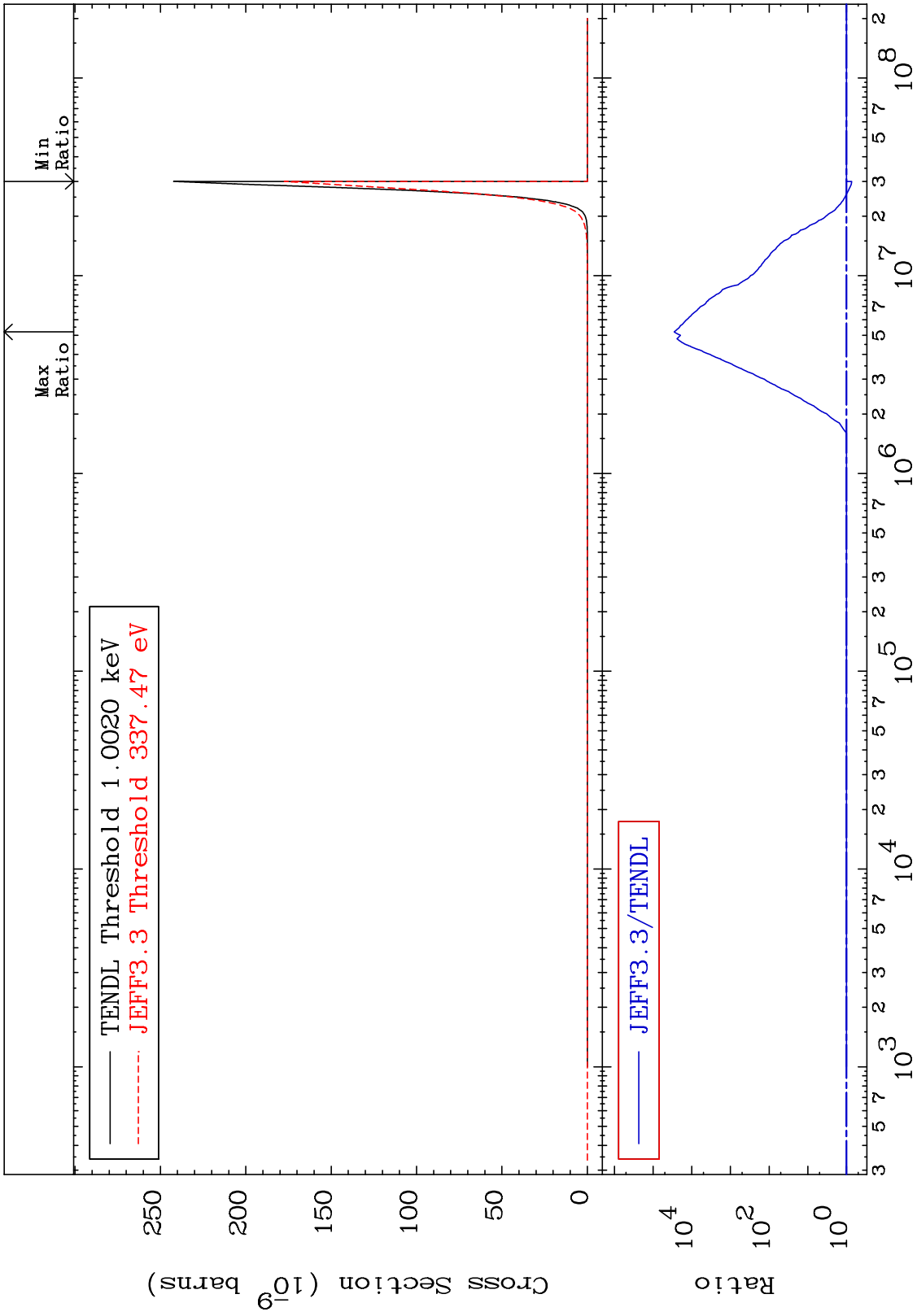
MAT 6246

(n, 2α)

62-Sm-151

Cross Section

-26.74 To 9999. %



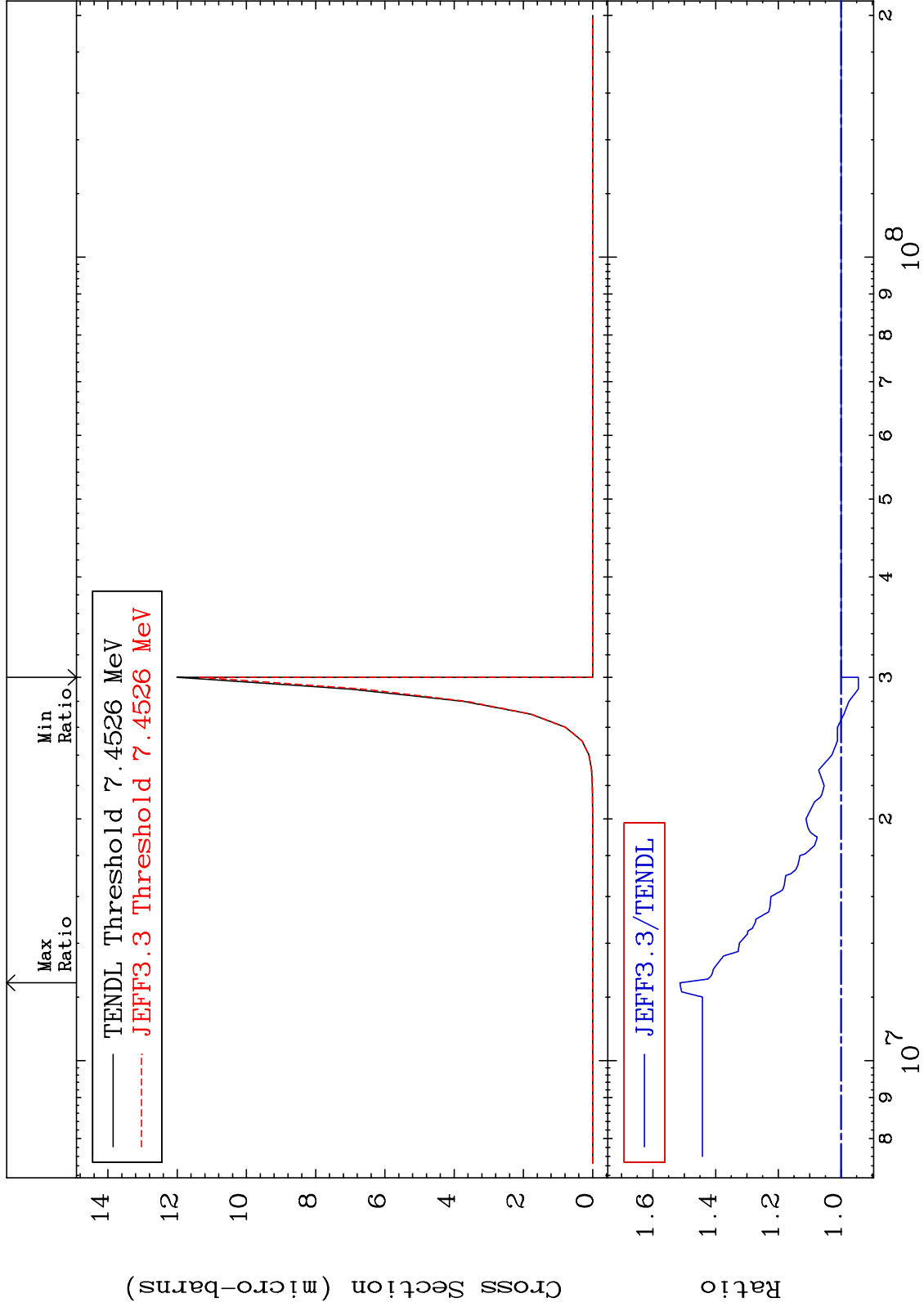
MAT 6246

(n,2p)

62-Sm-151

-5.542 To 51.36 %

Cross Section



62-Sm-151

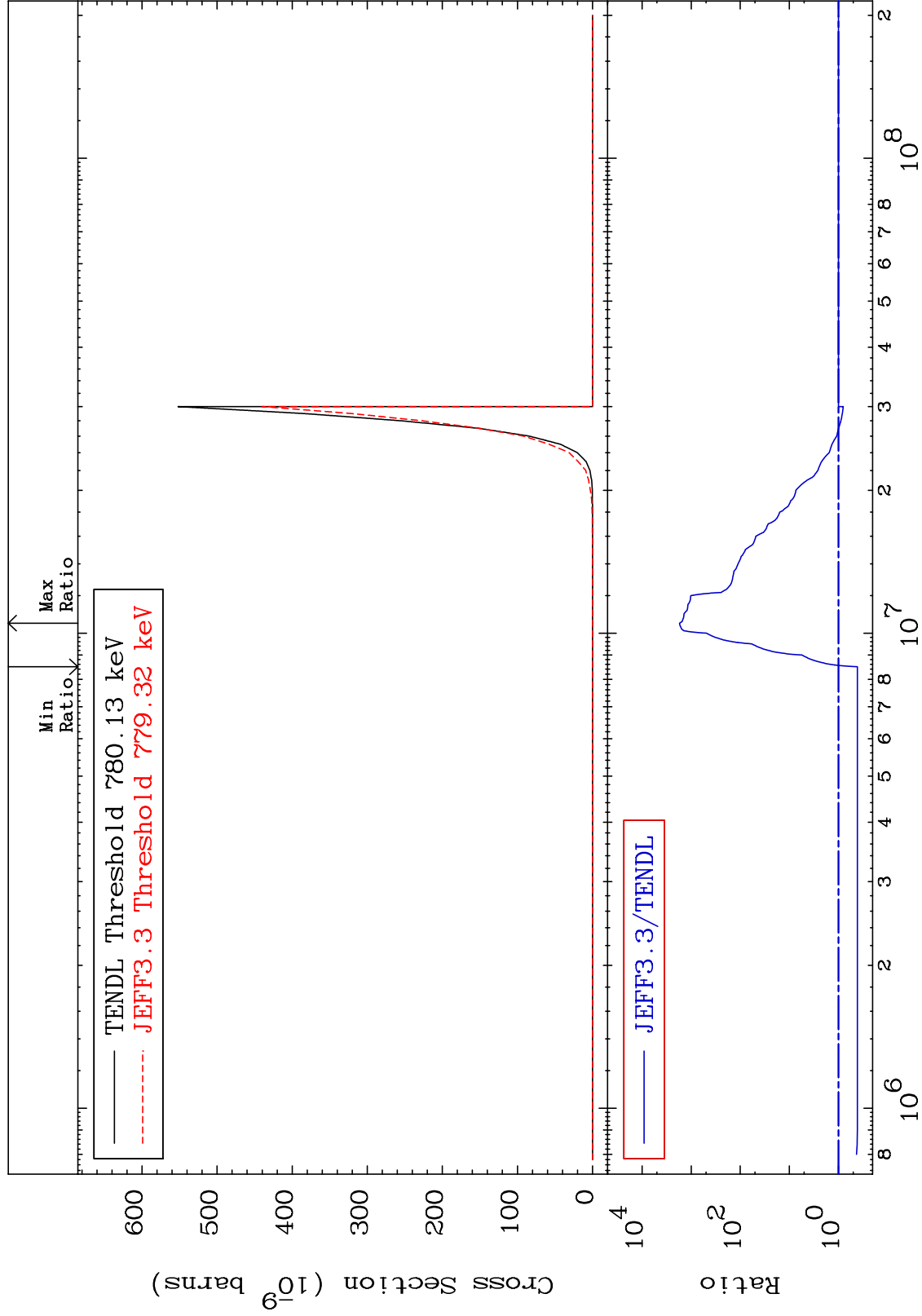
MAT 6246

(n,p)  $\alpha$

62-Sm-151

-58.86 To 9999. %

Cross Section



61

Incident Energy (eV)

62-Sm-151

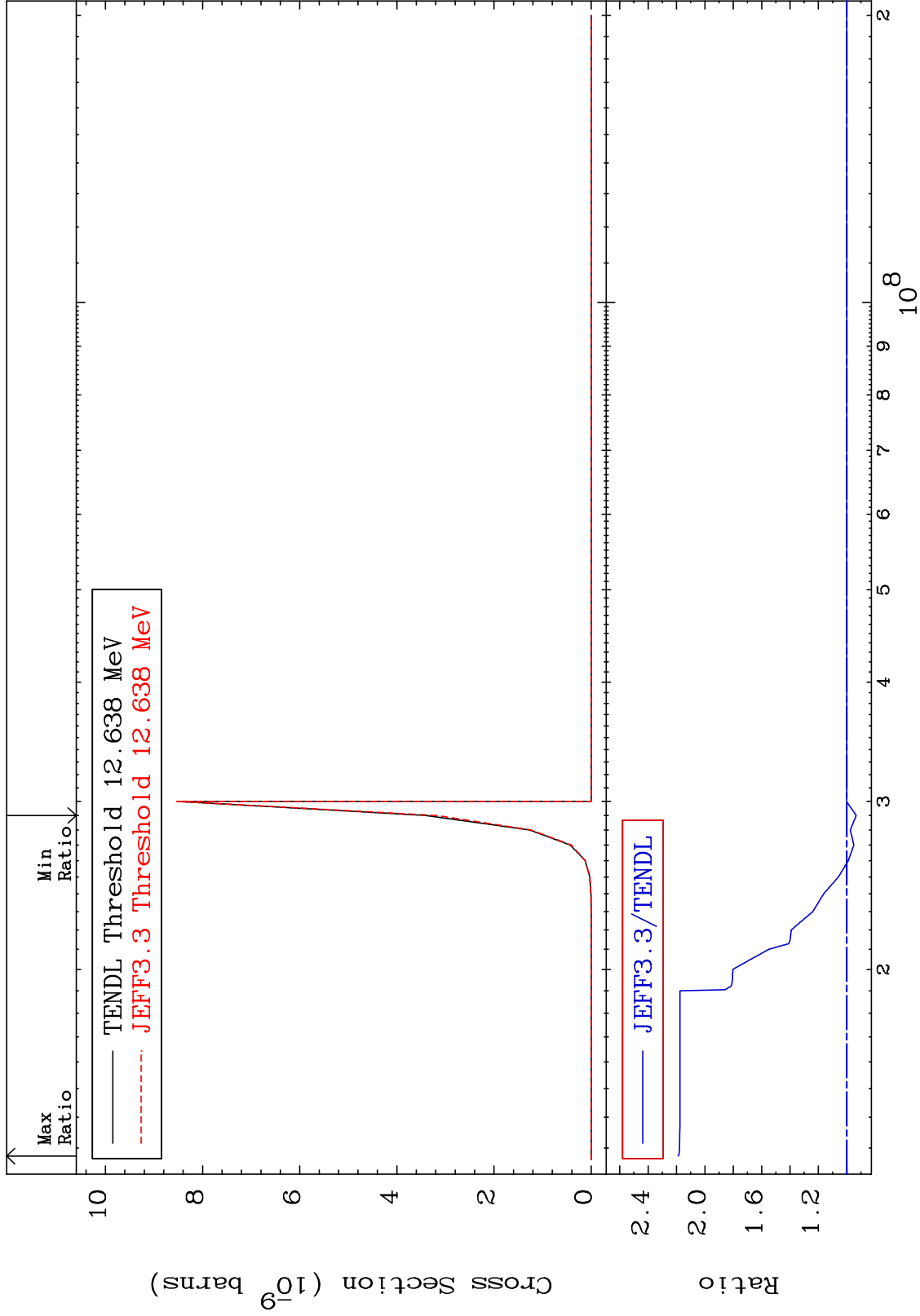
MAT 6246

(n,p) d

62-Sm-151

Cross Section

-6.630 To 118.7 %



62

Incident Energy (eV)

62-Sm-151

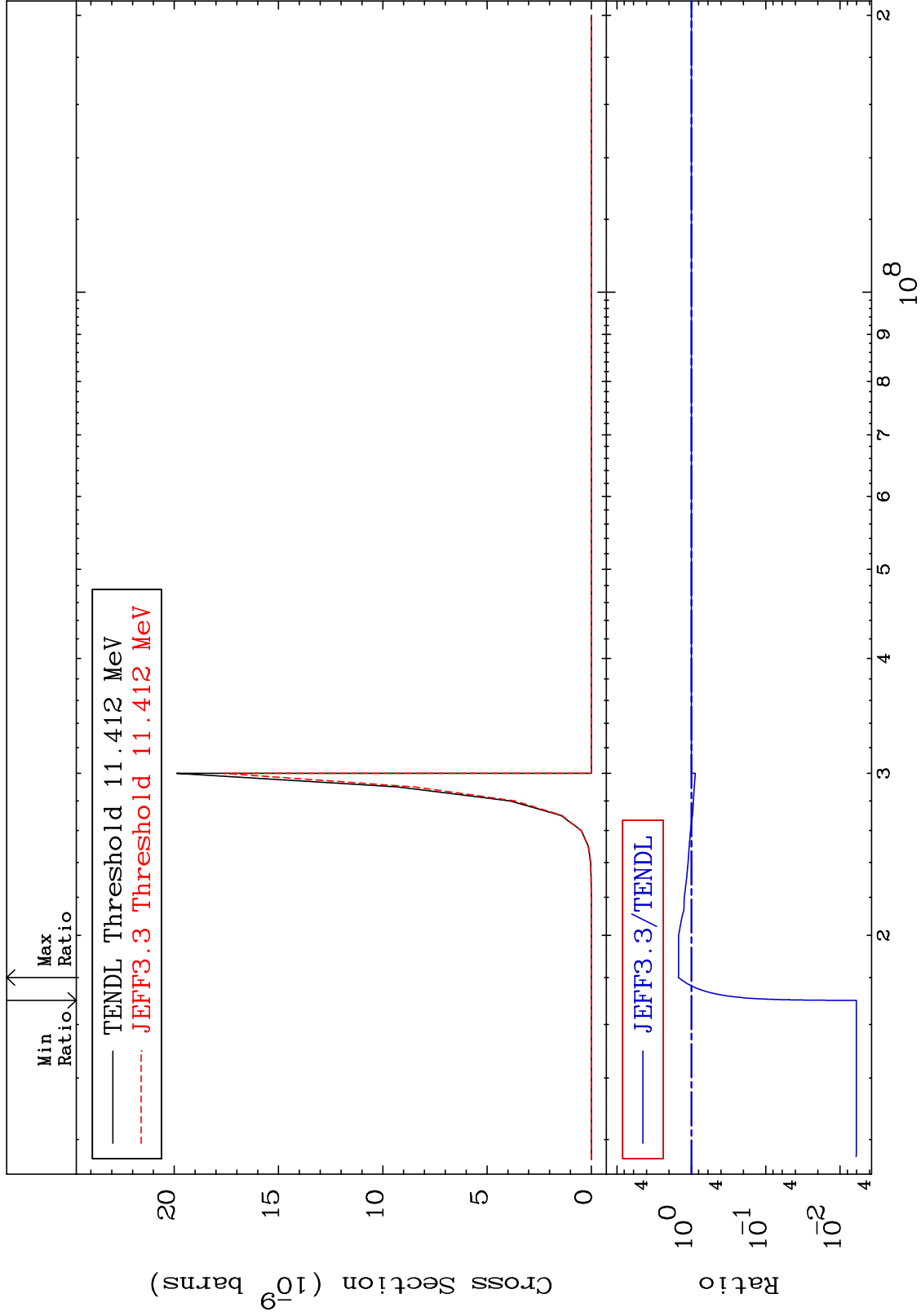
MAT 6246

(n,p) t

62-Sm-151

Cross Section

-99.40 To 49.29 %



63

Incident Energy (eV)

62-Sm-151

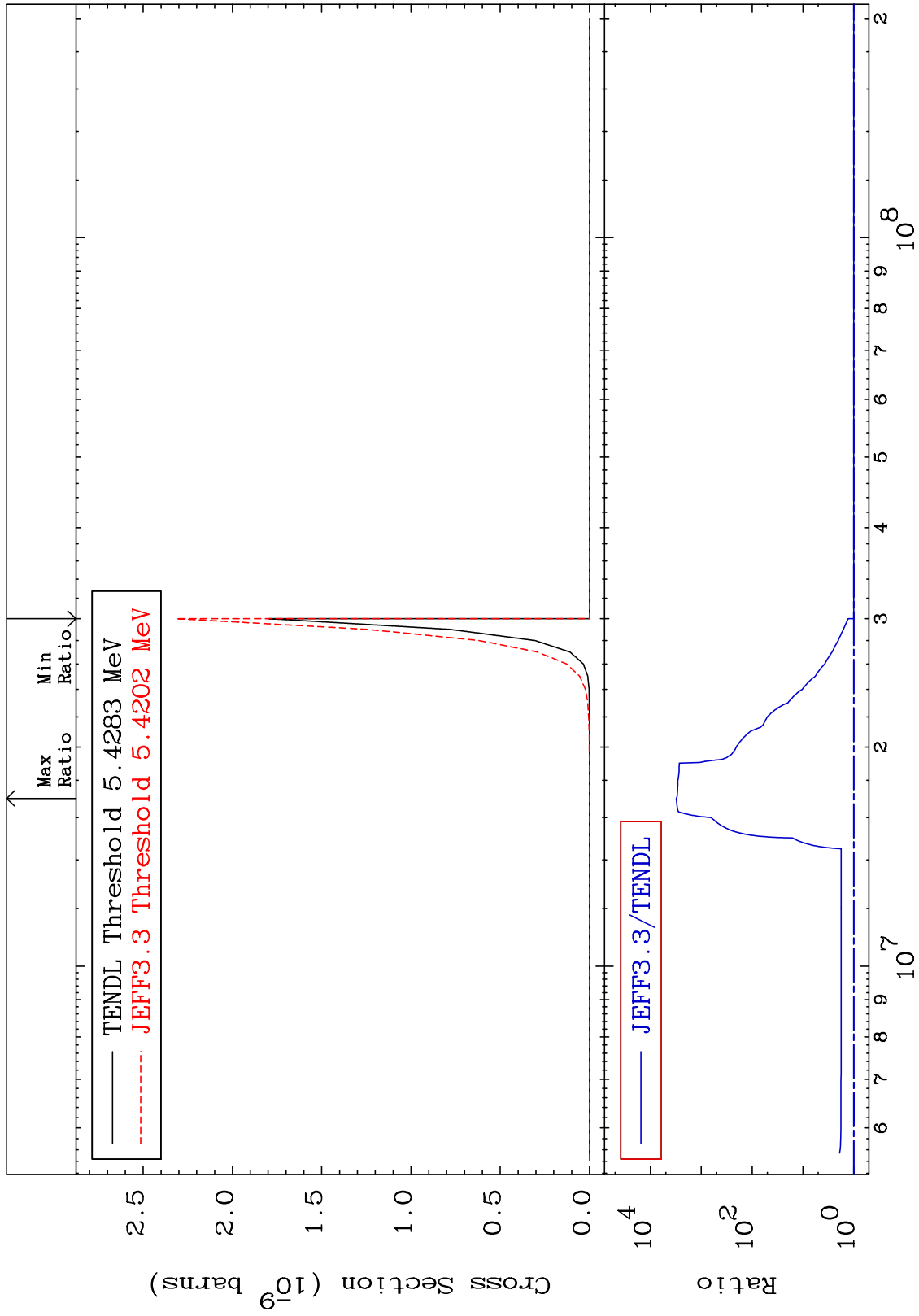


MAT 6246

(n,d)  $\alpha$

62-Sm-151

0.000 To 9999. %



64

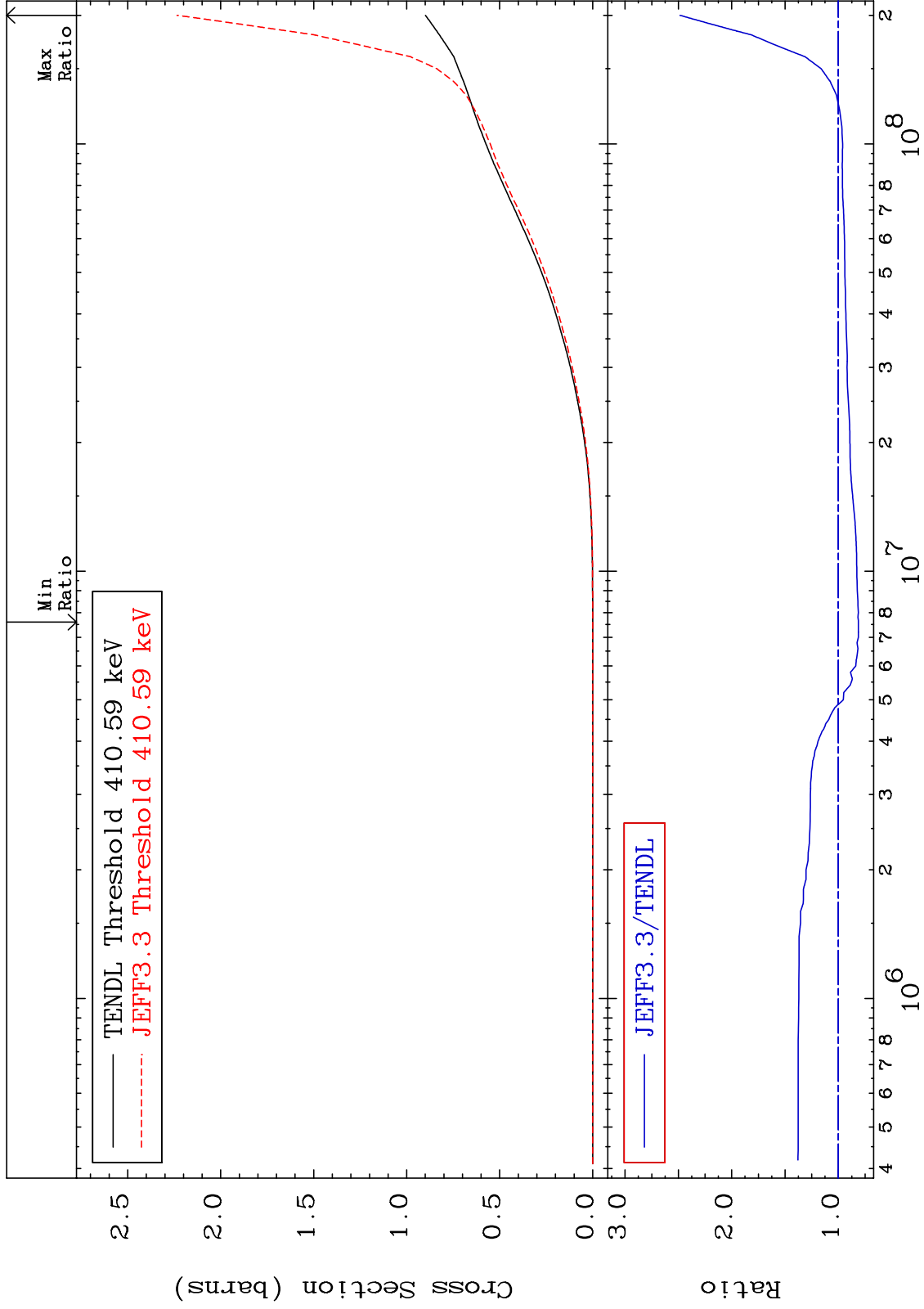
Incident Energy (eV)

62-Sm-151

MAT 6246

Hydrogen Production  
Cross Section

62-Sm-151  
-18.78 To 148.5 %



65

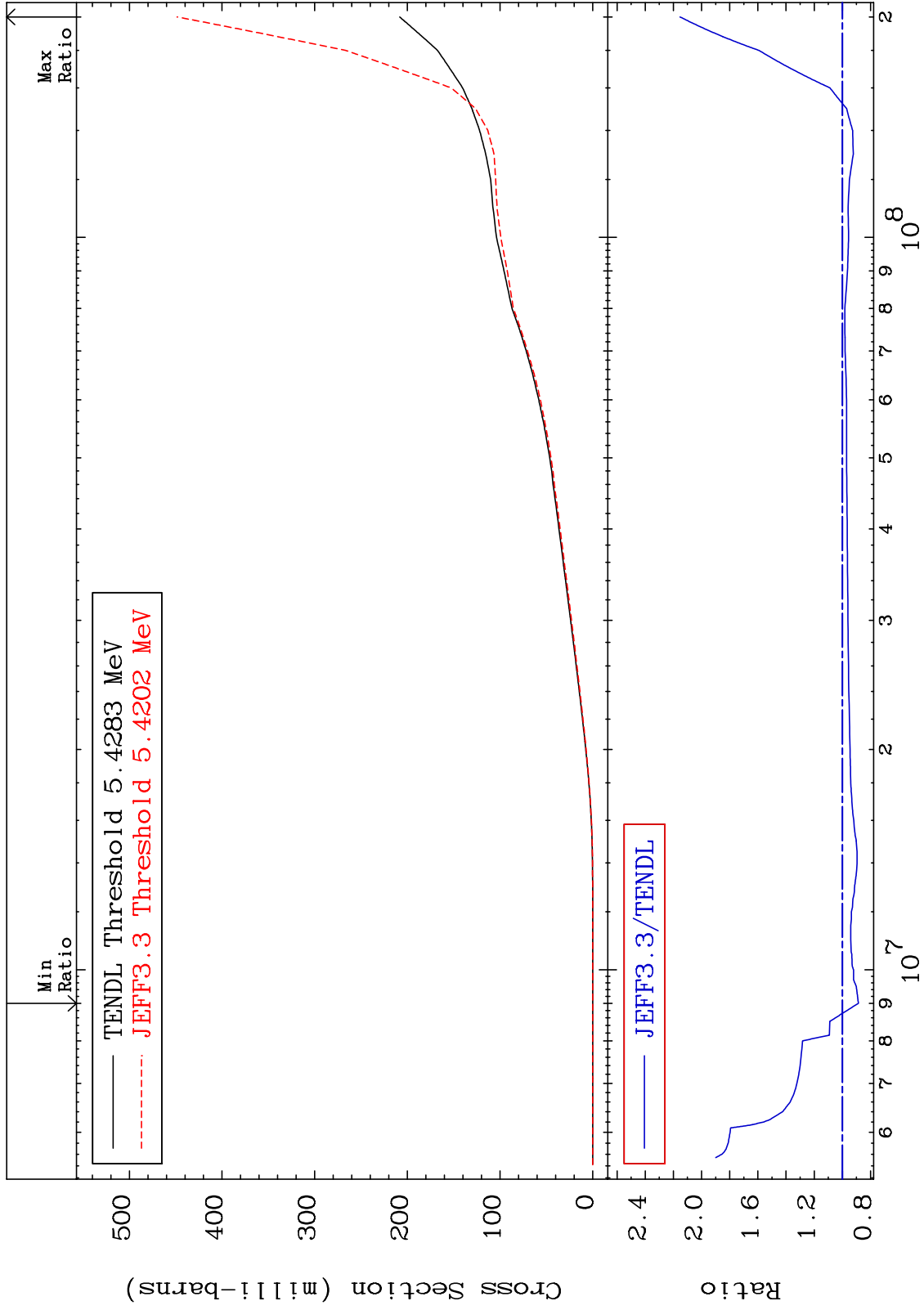
Incident Energy (eV)

62-Sm-151

MAT 6246

Deuterium Production  
Cross Section

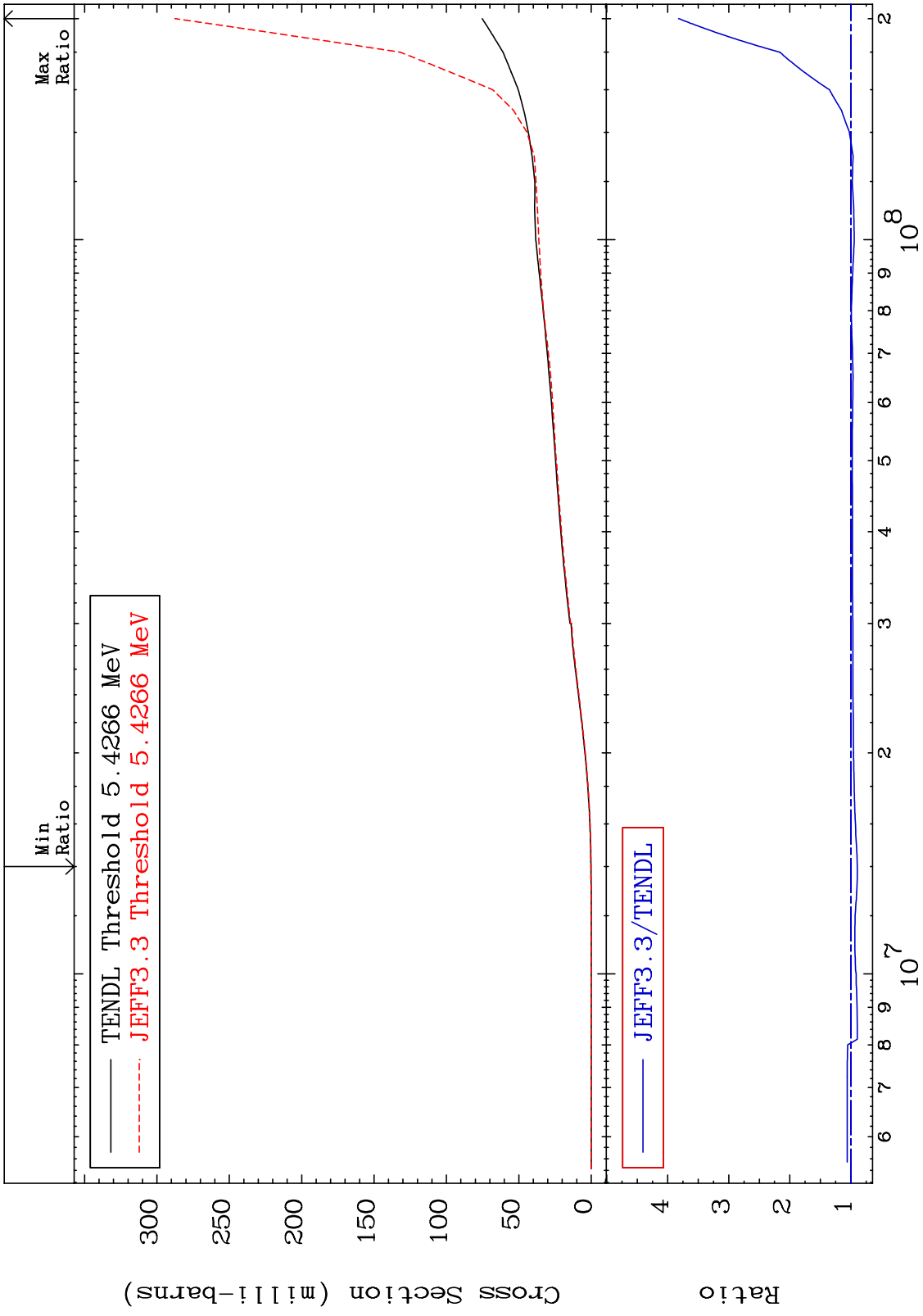
62-Sm-151  
-11.38 To 115.3 %



MAT 6246

Tritium Production  
Cross Section

62-Sm-151  
-10.55 To 282.1 %



67

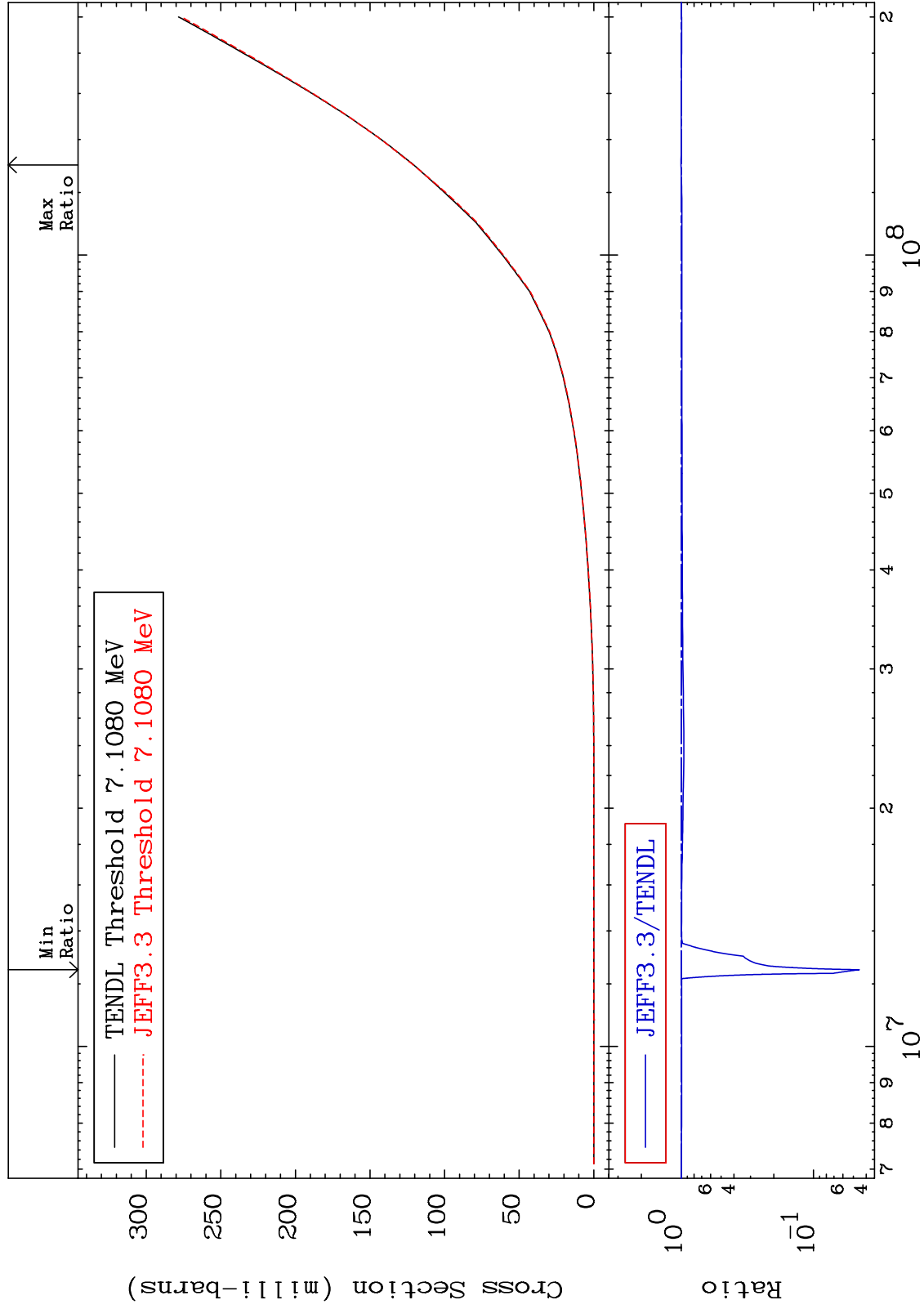
Incident Energy (eV)

62-Sm-151

MAT 6246

He-3 Production  
Cross Section

62-Sm-151  
-95.49 To 0.302 %



68

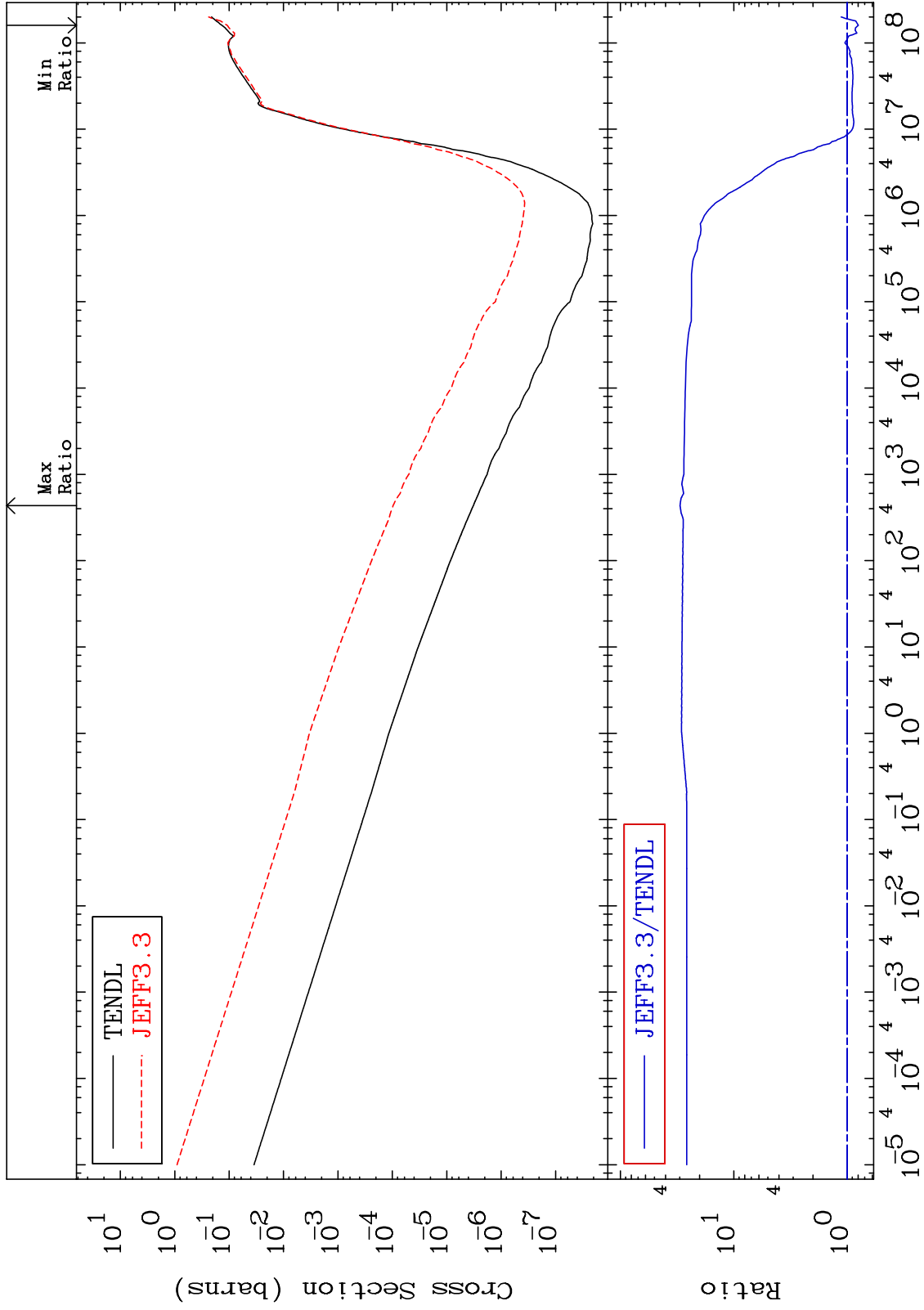
Incident Energy (eV)

62-Sm-151

MAT 6246

He-4 Production  
Cross Section

62-Sm-151  
-20.43 To 2880. %



69

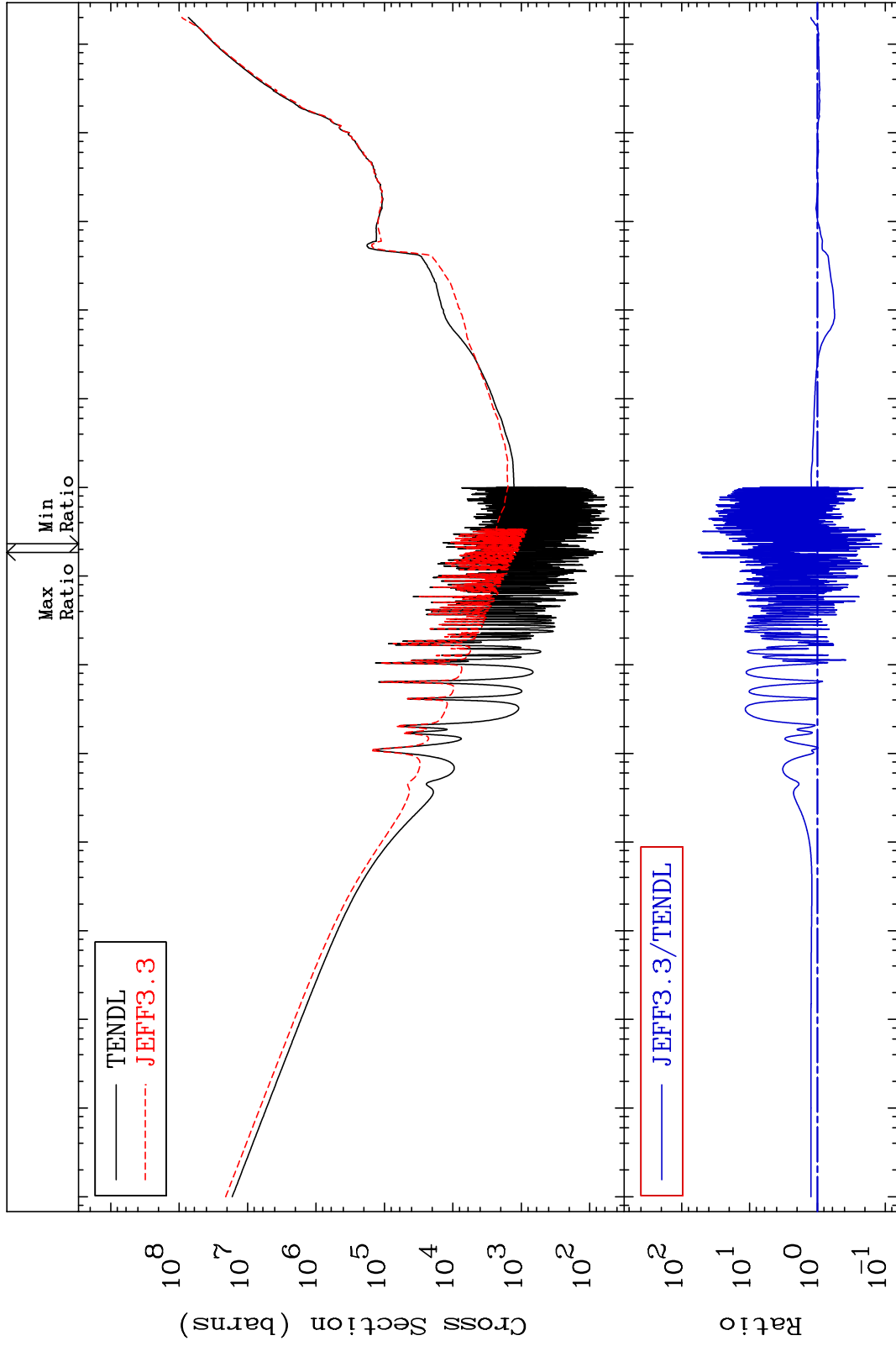
Incident Energy (eV)

62-Sm-151

MAT 6246

Kerma total (eV-barns)  
Cross Section

62-Sm-151  
-88.65 To 5598. %



70

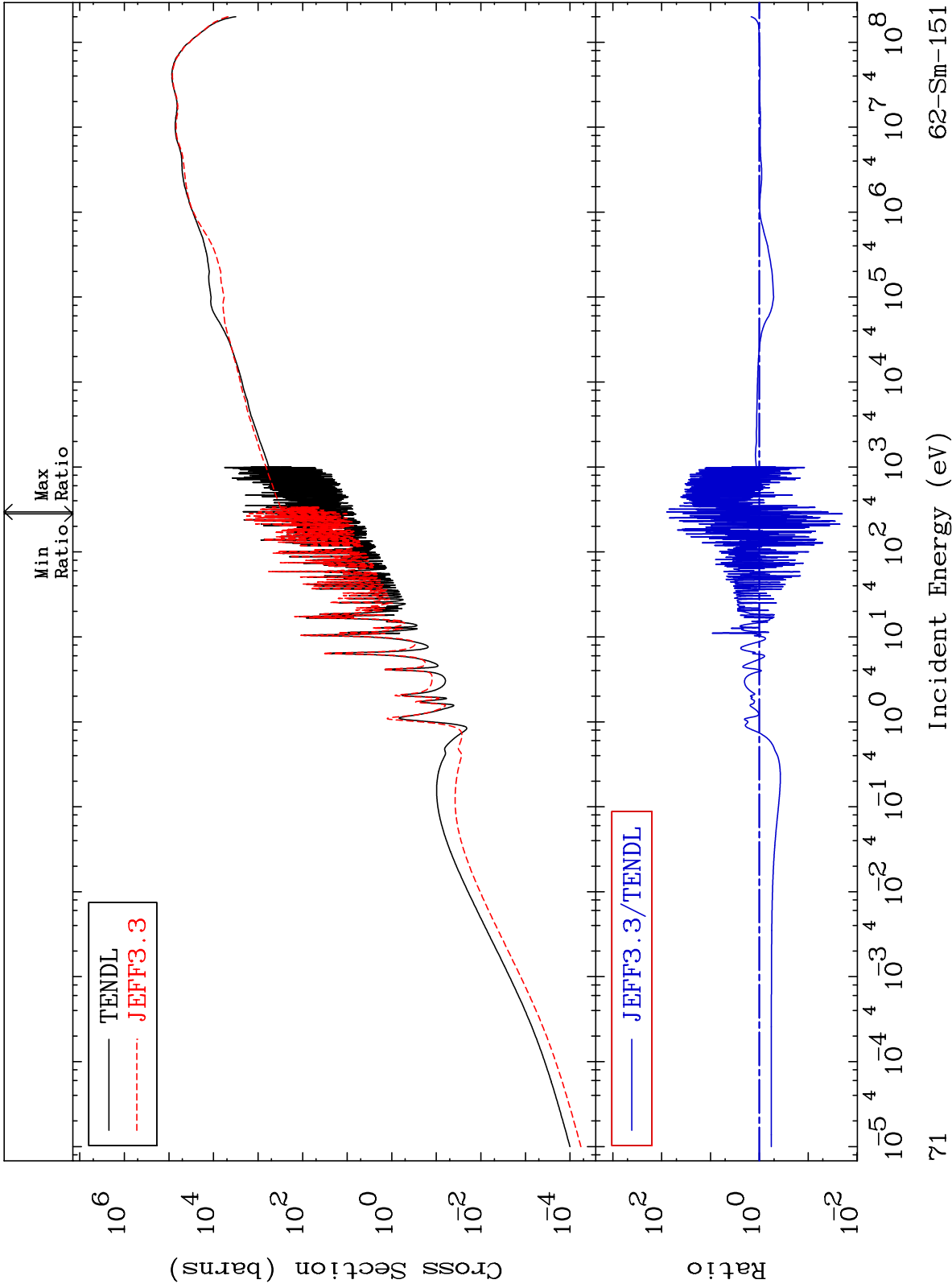
Incident Energy (eV)

62-Sm-151

MAT 6246

Kerma elastic  
Cross Section

62-Sm-151  
-98.01 To 7747. %



71

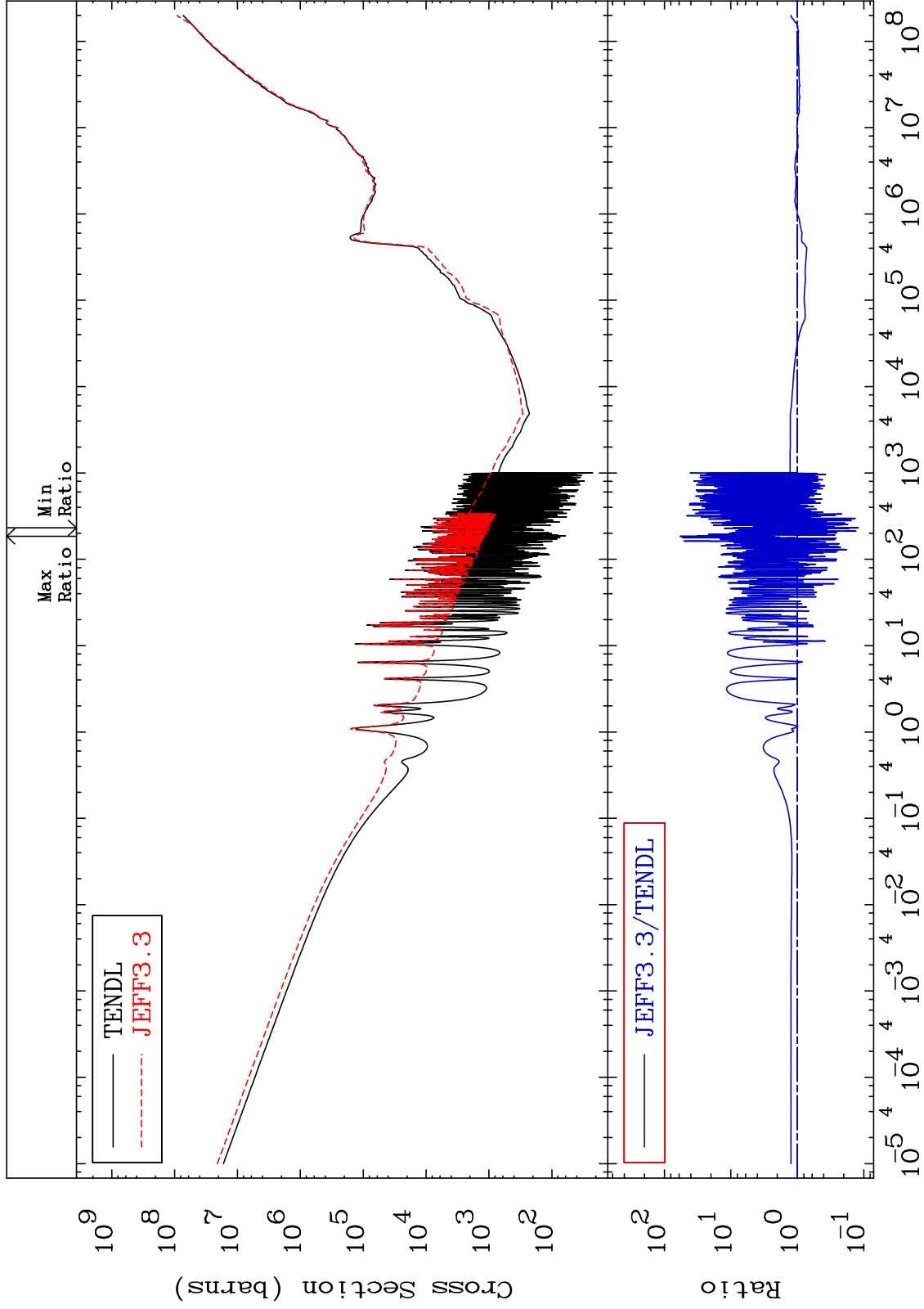
62-Sm-151



MAT 6246

Kerma non-elastic (all but mt2)  
Cross Section

62-Sm-151  
-87.96 To 5714. %



72

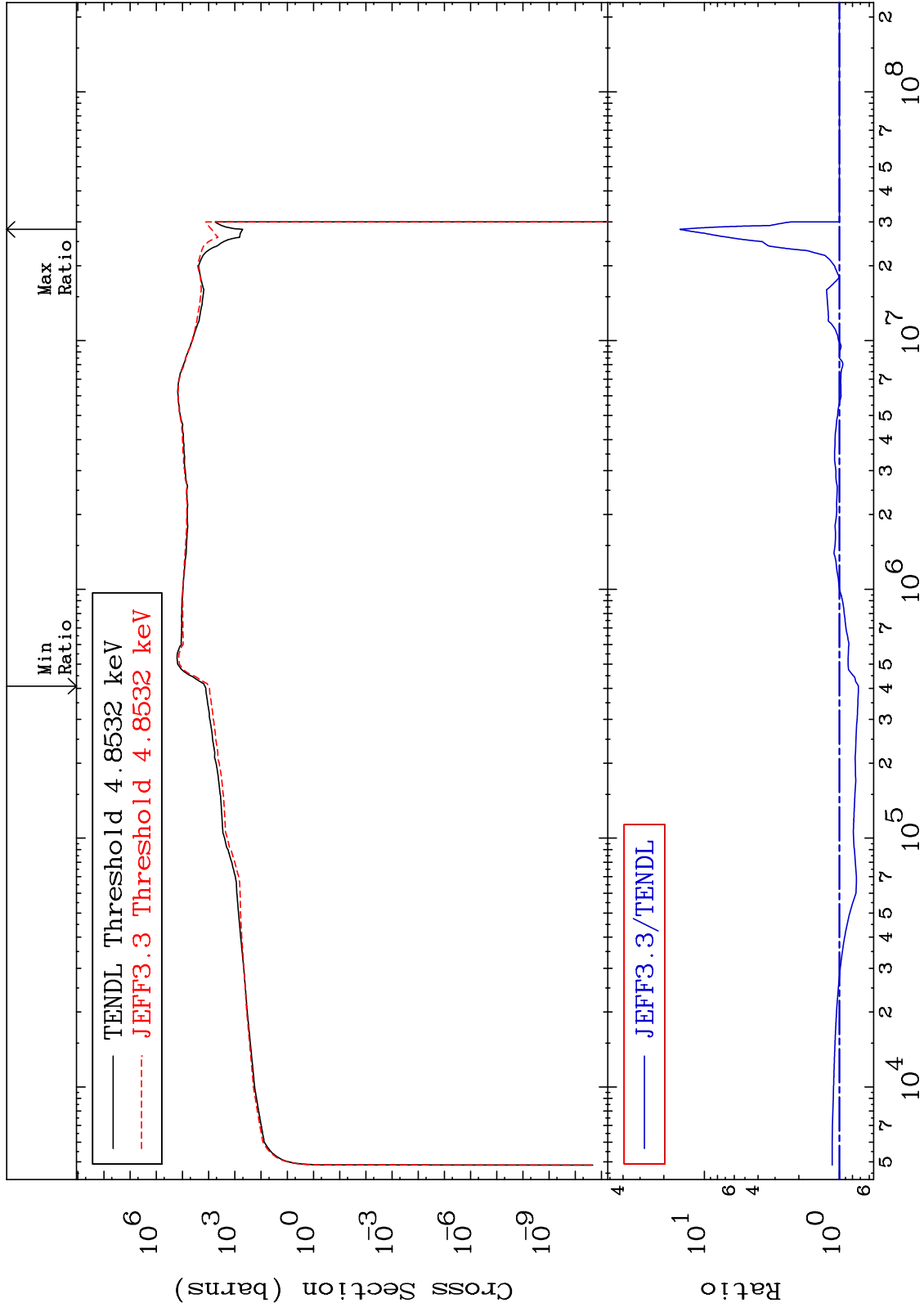
Incident Energy (eV)

62-Sm-151

MAT 6246

Kerma inelastic (mt51-91)  
Cross Section

62-Sm-151  
-27.75 To 1415. %



73

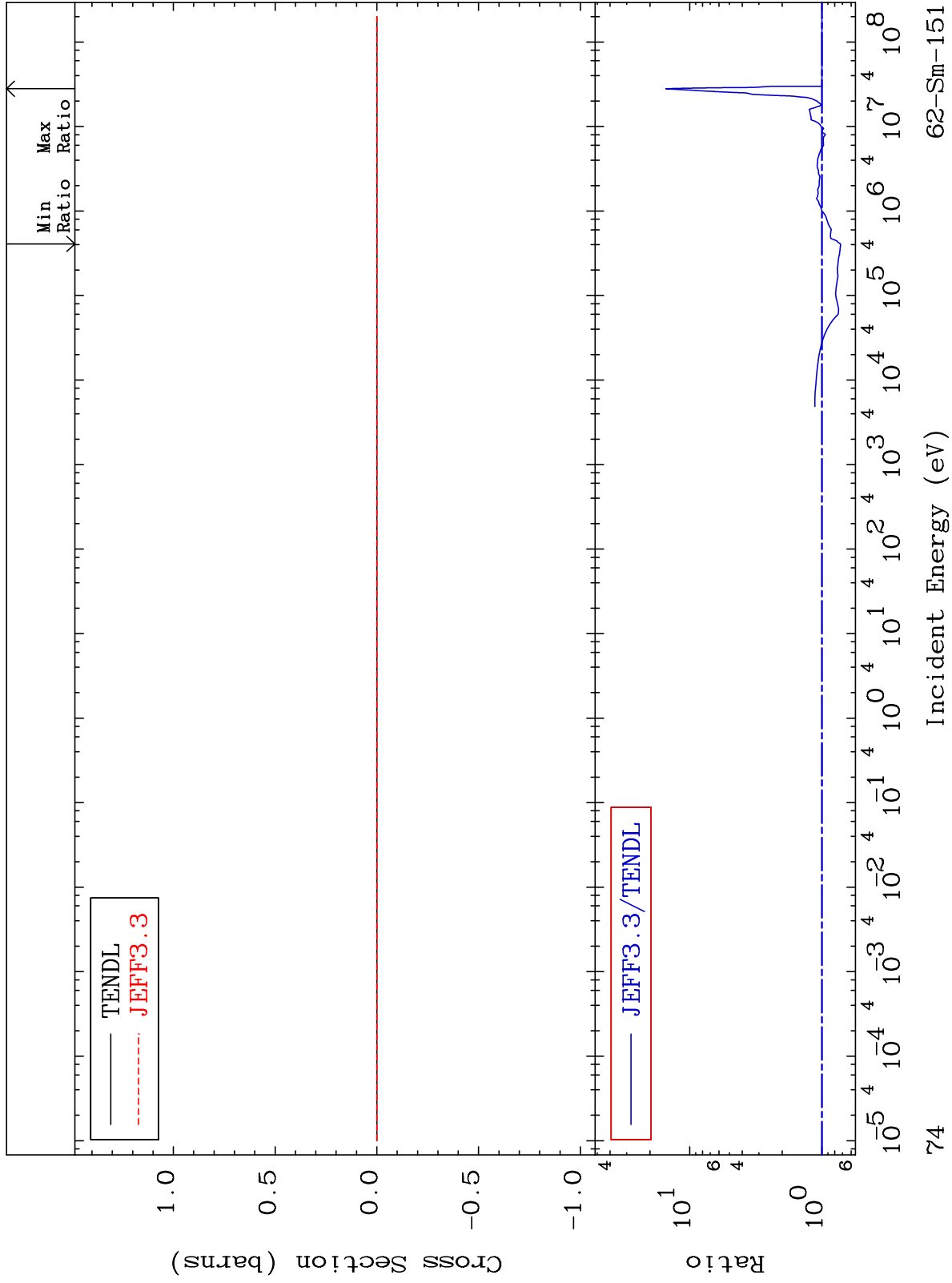
Incident Energy (eV)

62-Sm-151

MAT 6246

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

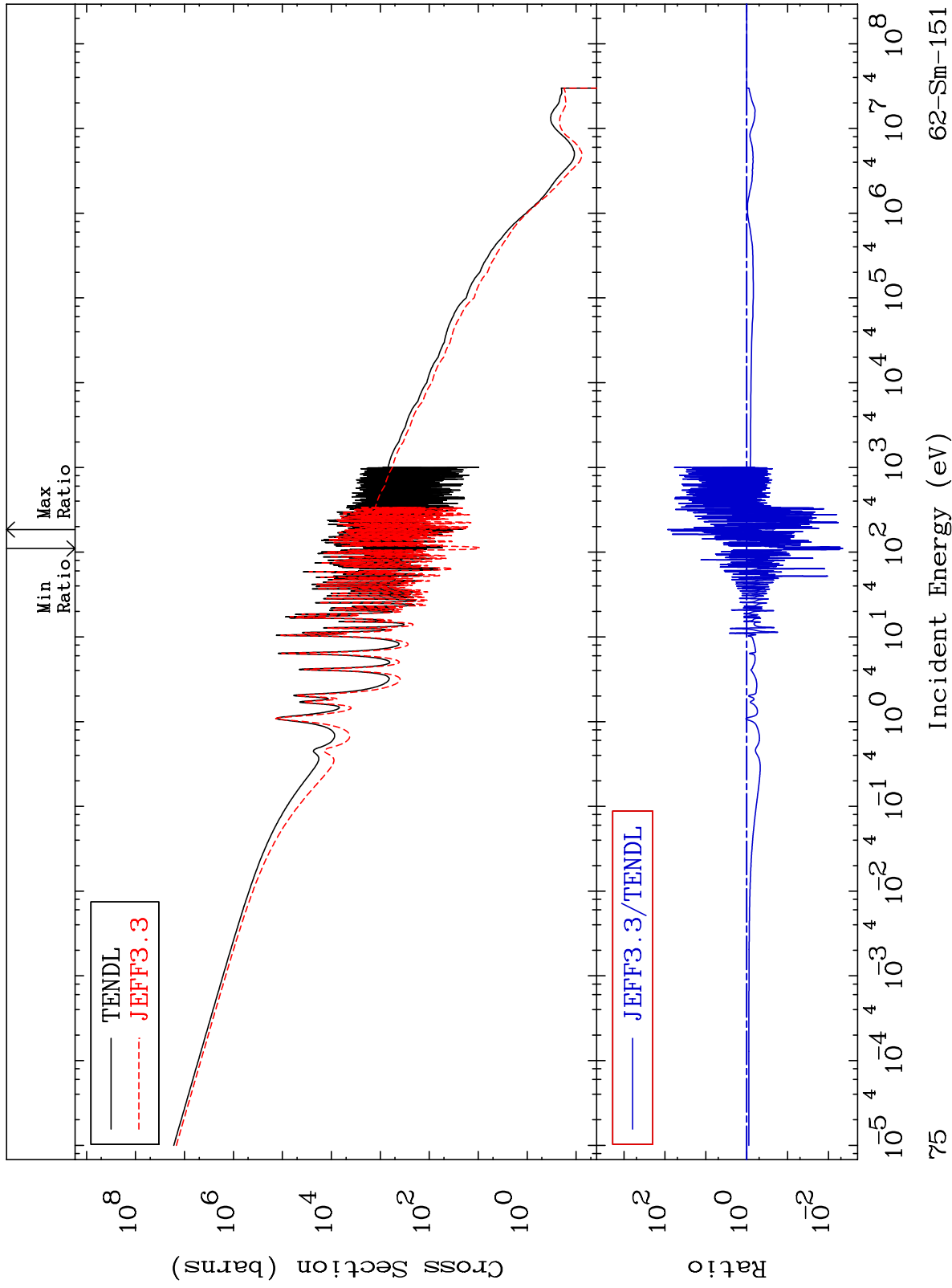
62-Sm-151  
-27.75 To 1415. %



MAT 6246

Kerma capture (mt102)  
Cross Section

62-Sm-151  
-99.55 To 8555. %



75

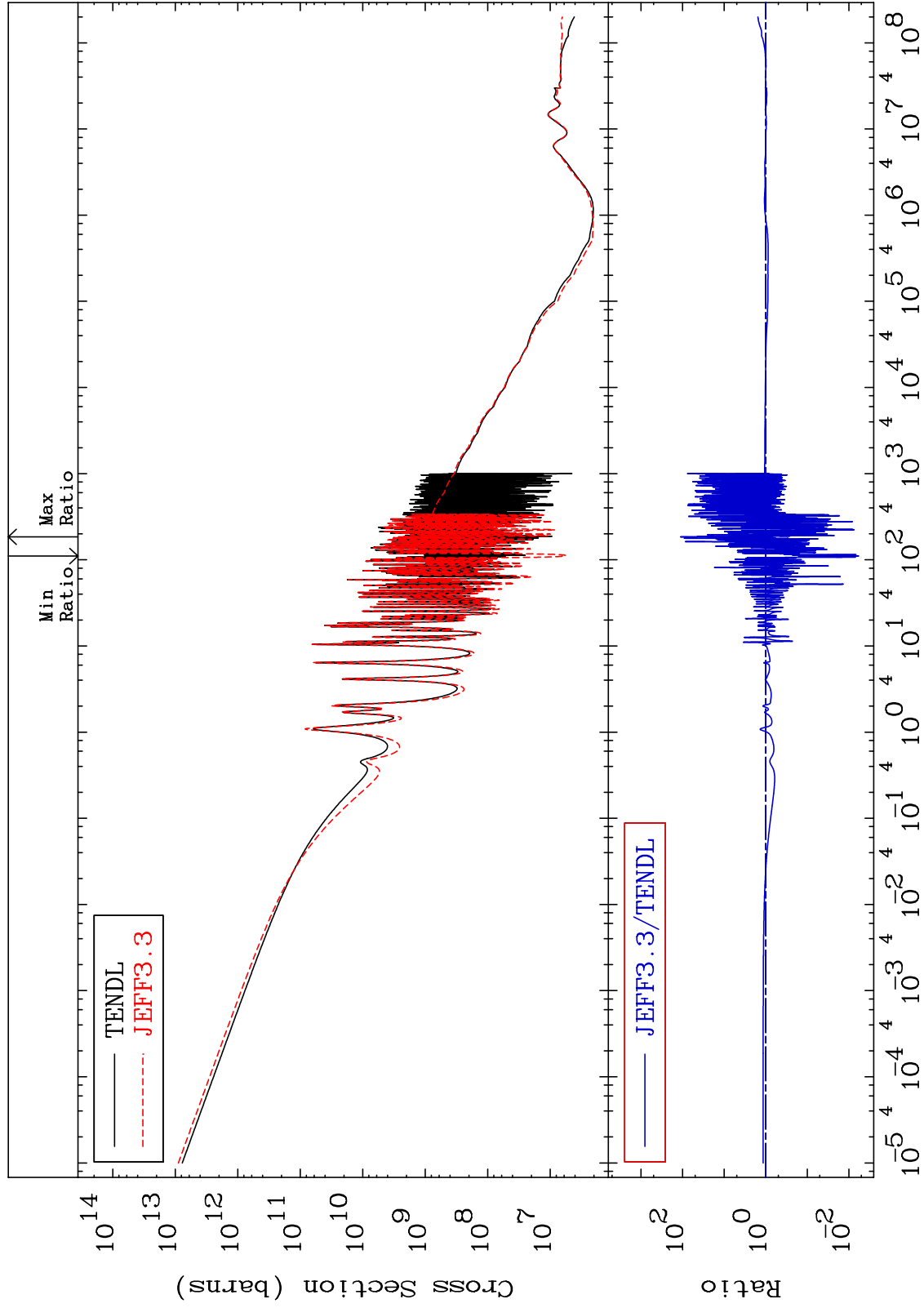
Incident Energy (eV)

62-Sm-151

MAT 6246

Total photon (eV-barns)  
Cross Section

62-Sm-151  
-99.41 To 9999. %



76

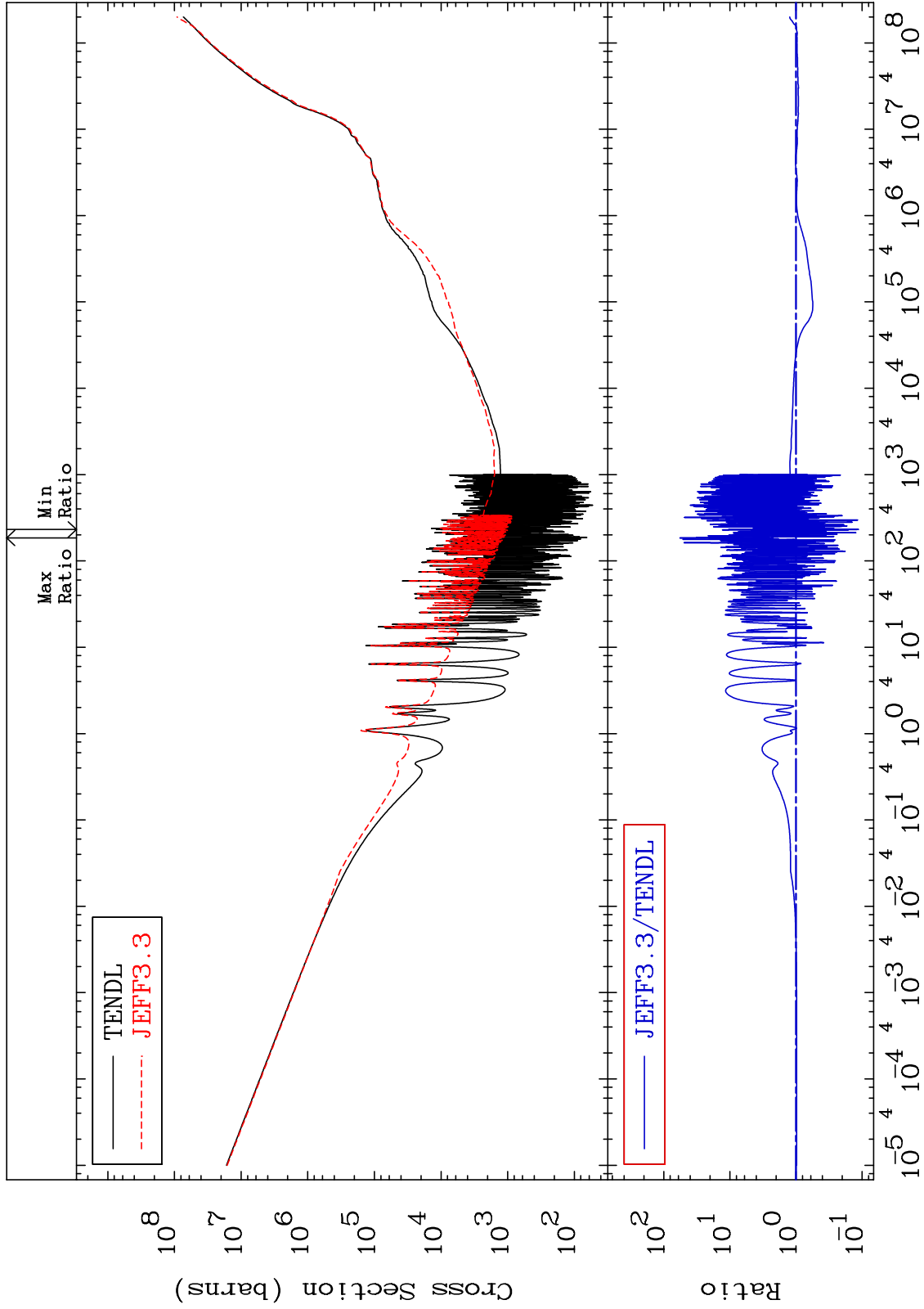
Incident Energy (eV)

62-Sm-151

MAT 6246

Total kinematic kerma (high limit)  
Cross Section

62-Sm-151  
-88.60 To 5590. %



77

Incident Energy (eV)

62-Sm-151

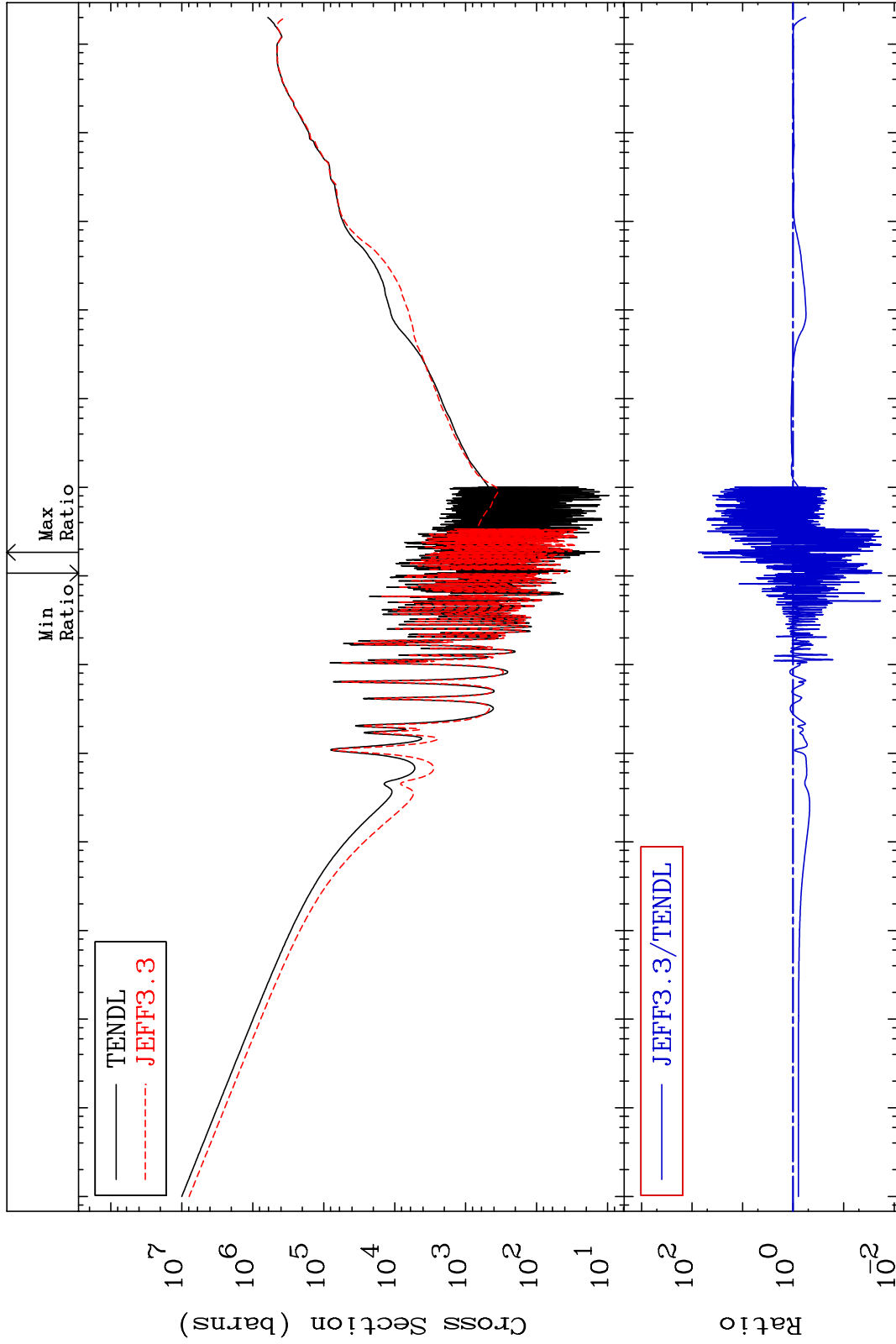
MAT 6246

Dpa total (eV-barns)

62-Sm-151

-98.22 To 7407. %

Cross Section



78

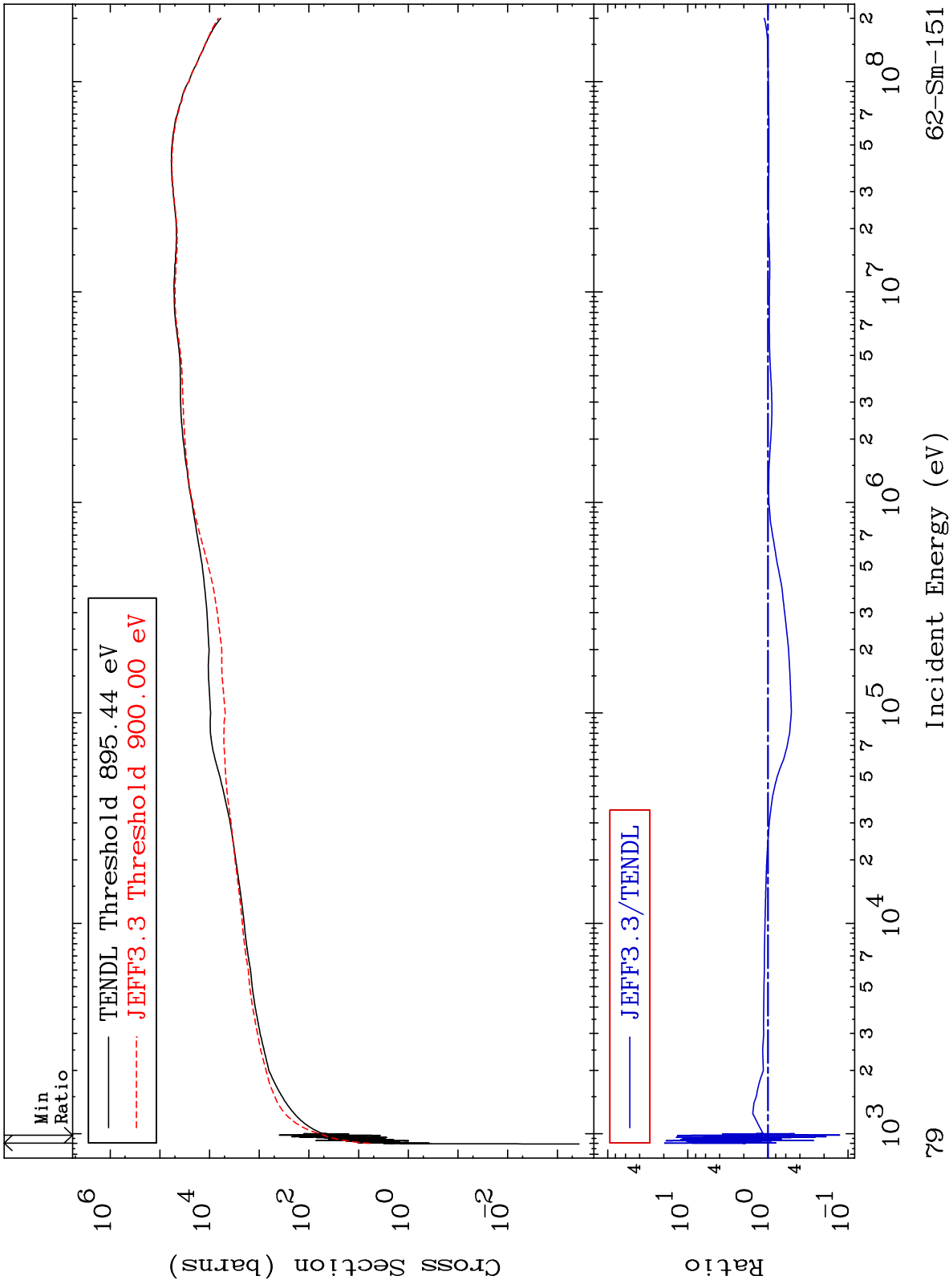
Incident Energy (eV)

62-Sm-151

MAT 6246

Dpa elastic (mt2)  
Cross Section

62-Sm-151  
-87.29 To 1842. %



79

Incident Energy (eV)

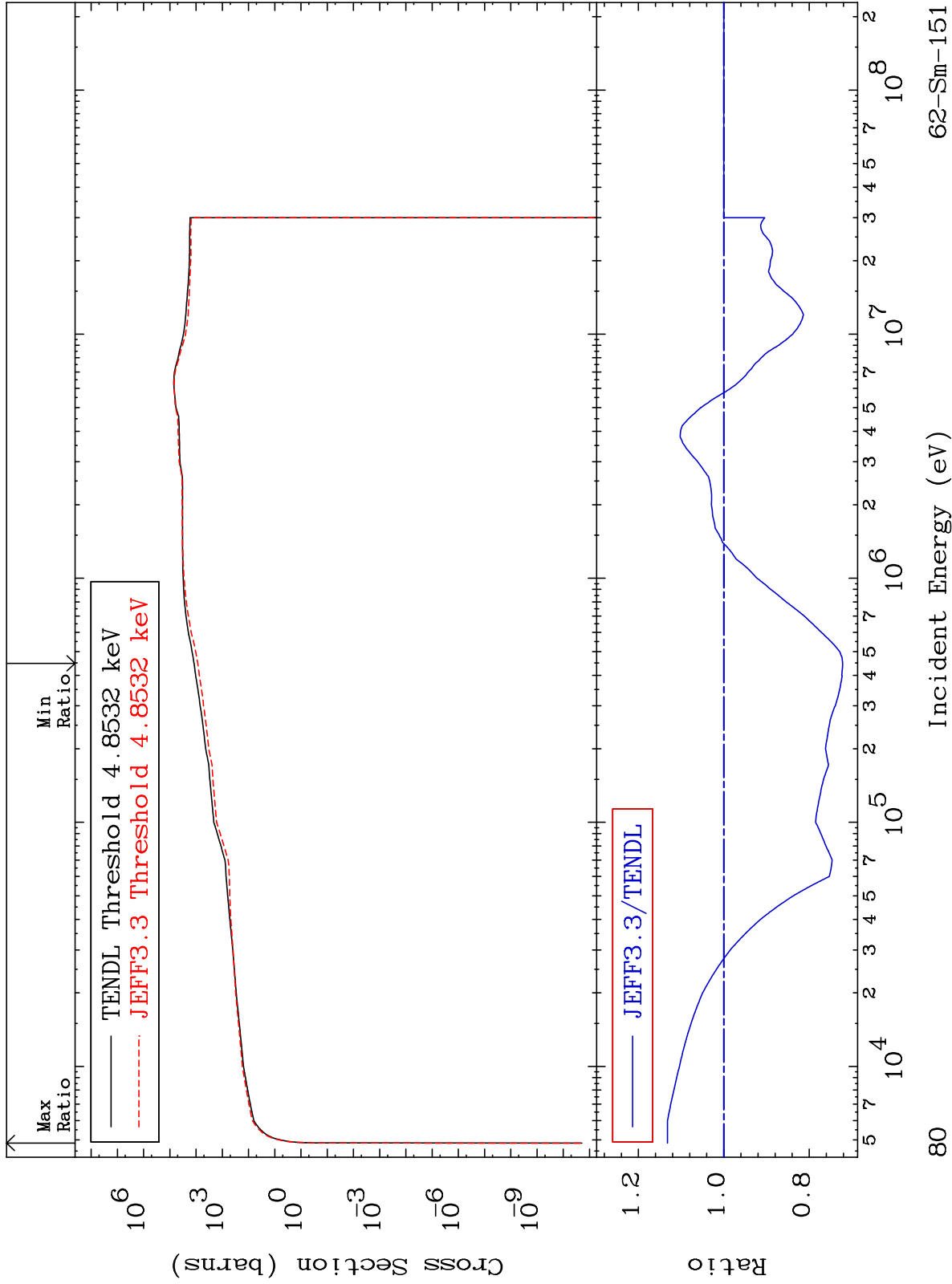
62-Sm-151



MAT 6246

Dpa inelastic (mt51-91)  
Cross Section

62-Sm-151  
-27.83 To 13.19 %



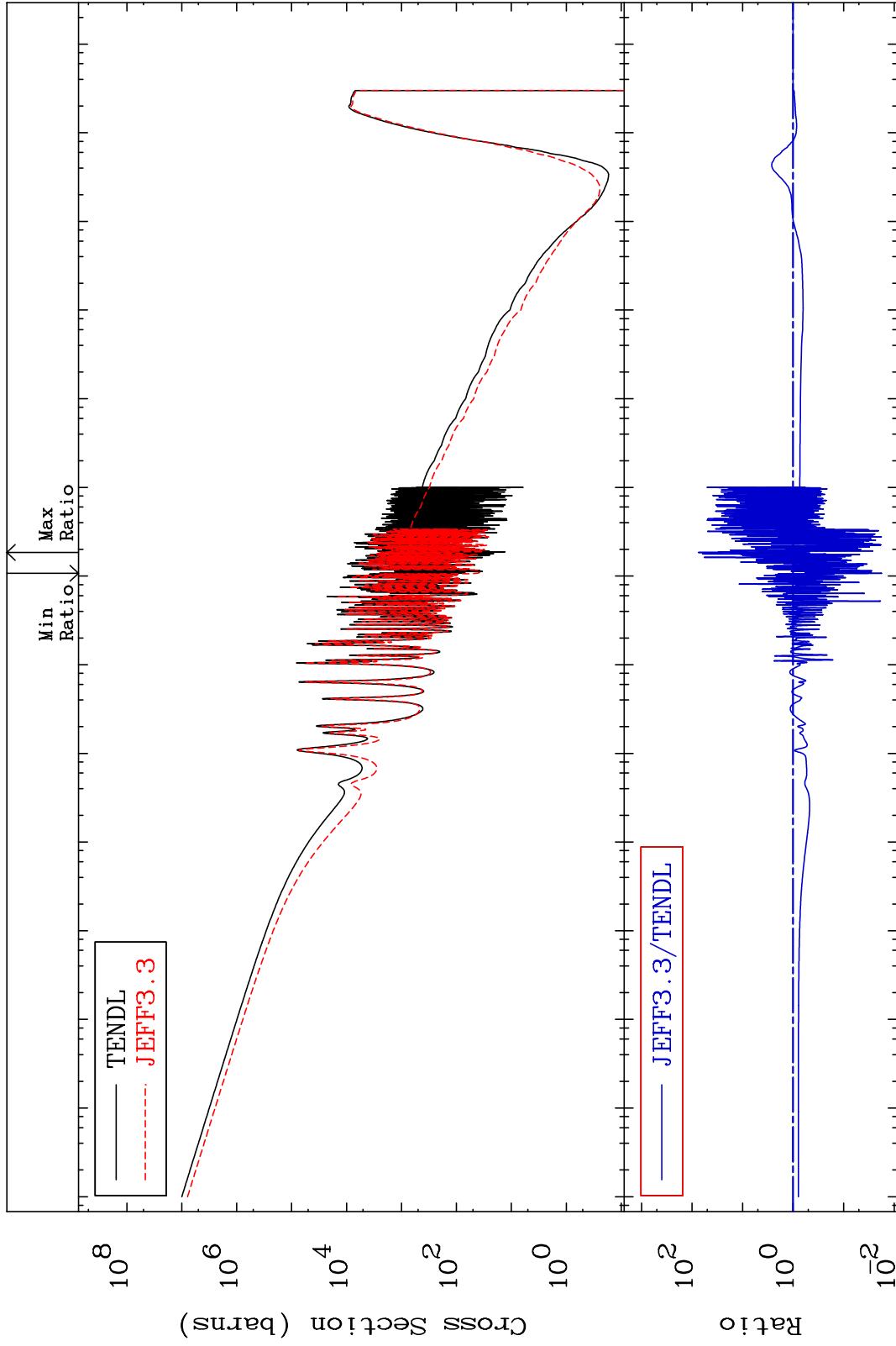
MAT 6246

Dpa disappearance (mt102 -120)

62-Sm-151

-98.22 To 7407. %

Cross Section

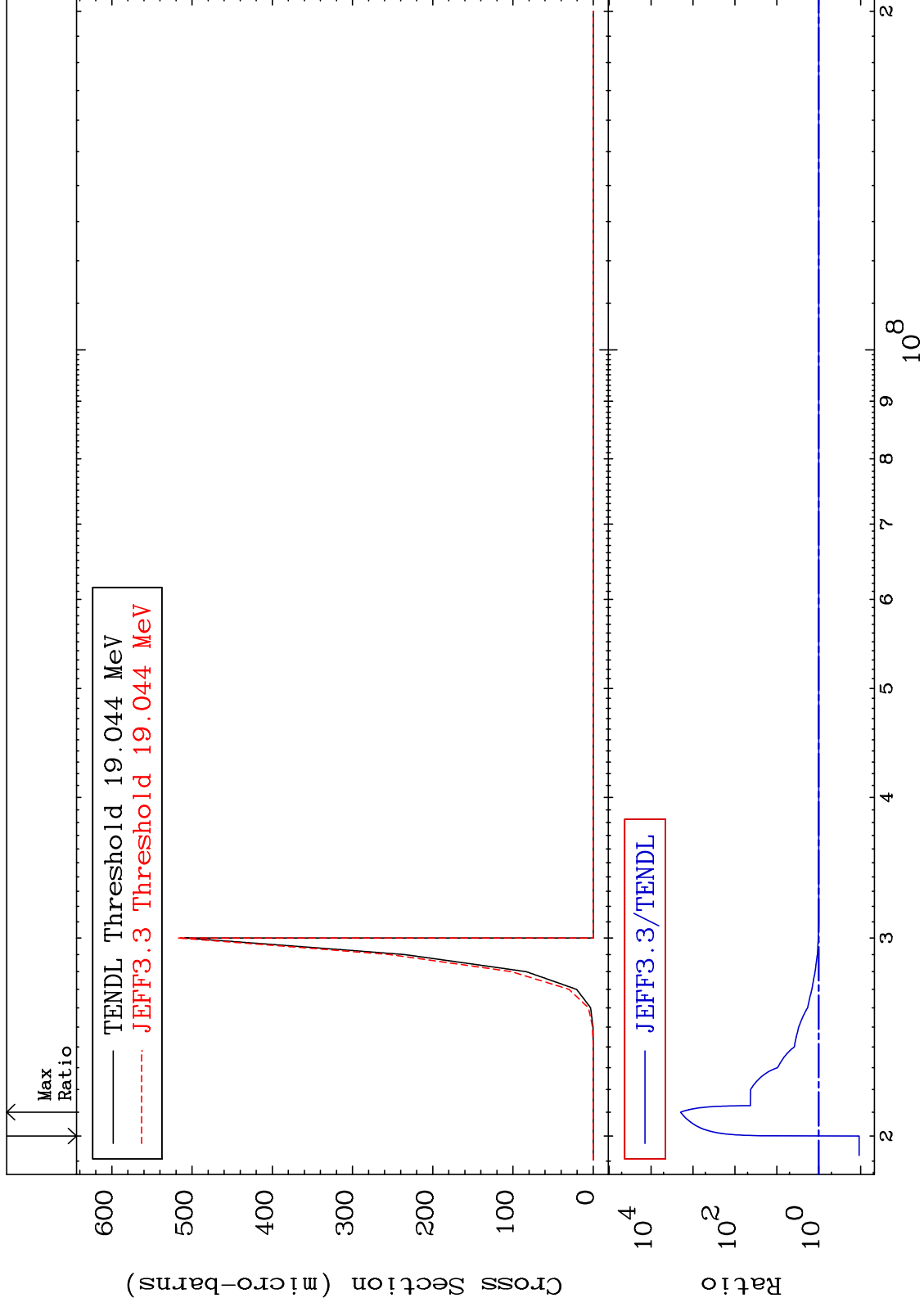


MAT 6246

(n,2n) d:61-Pm-148g

62-Sm-151

Radionuclide Production Cross Section -89.18 To 9999. %

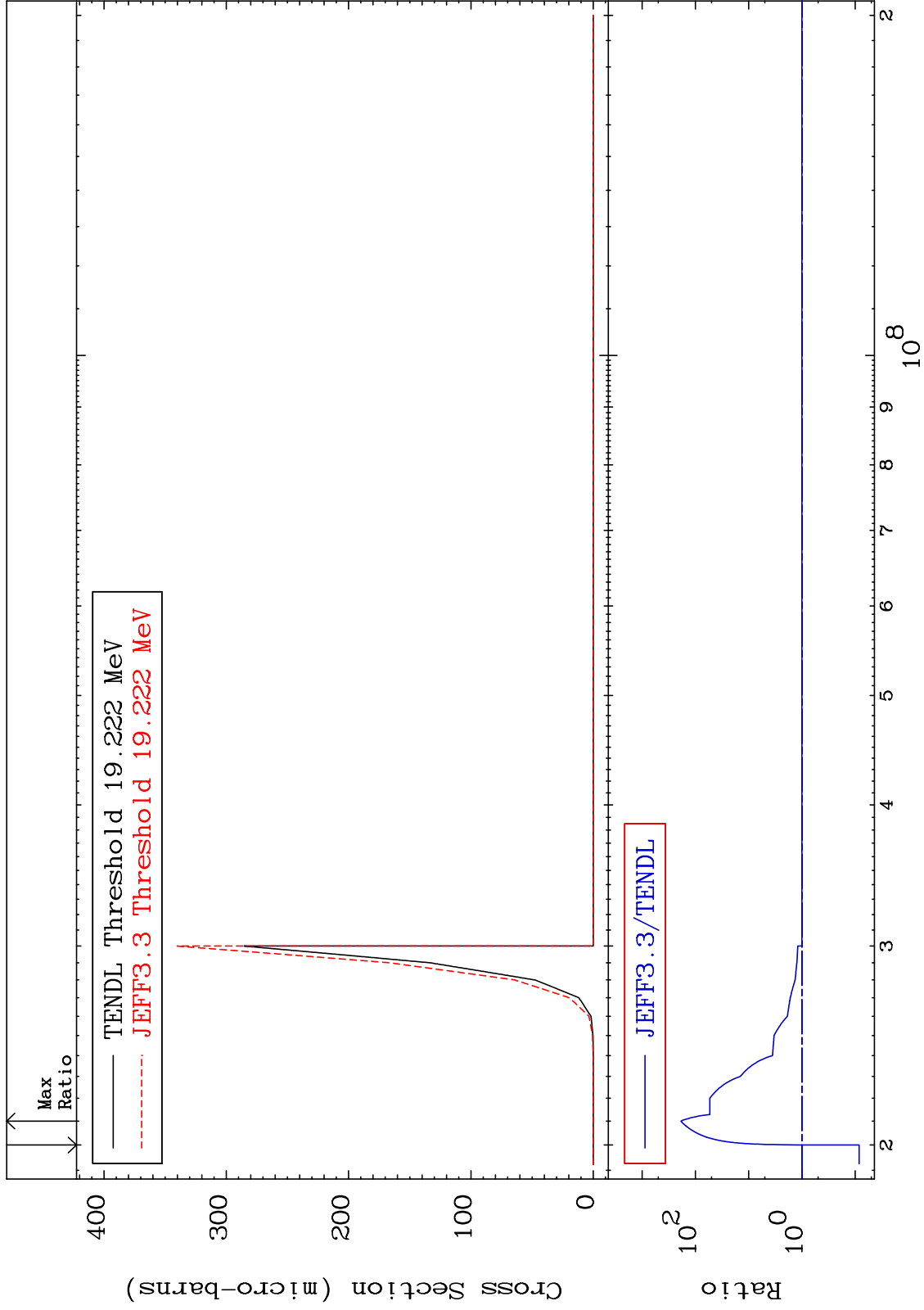


MAT 6246

(n,2n) d:61-Pm-148m3

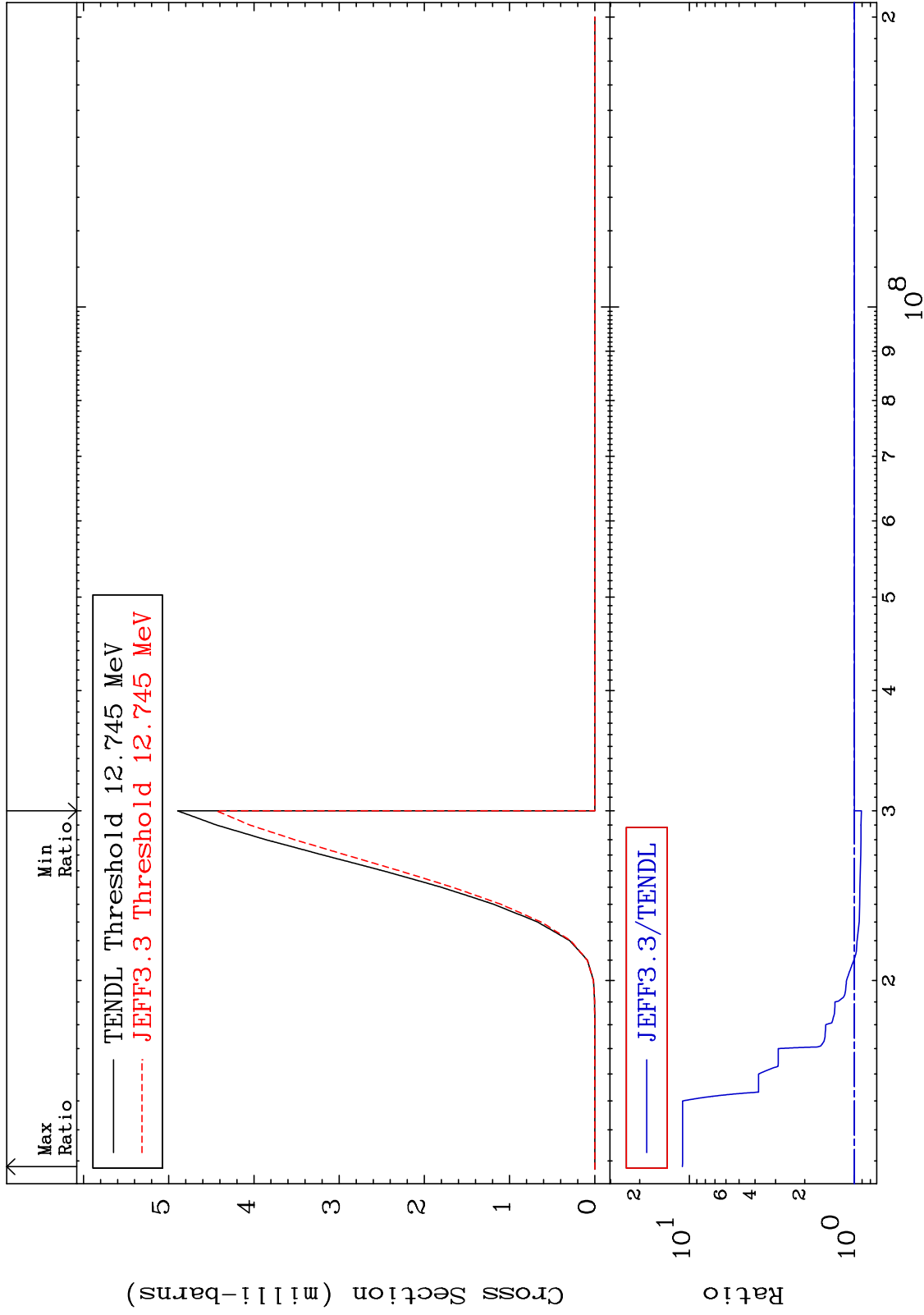
62-Sm-151

Radionuclide Production Cross Section -91.57 To 9999. %



MAT 6246

(n, n') t:61-Pm-148g 62-Sm-151  
Radionuclide Production Cross Section -9.326 To 1001. %

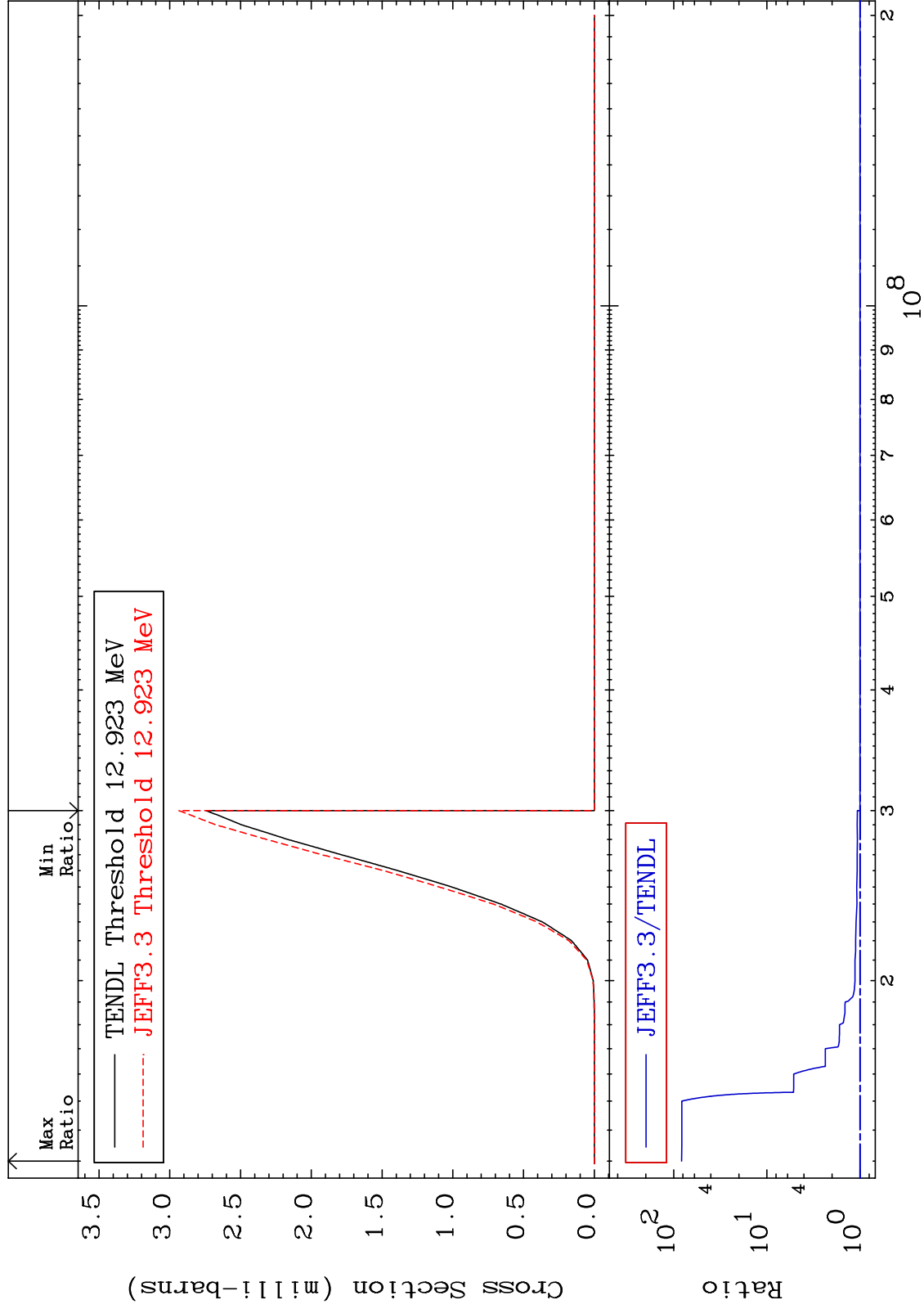


MAT 6246

(n, n') t: 61-Pm-148m3

62-Sm-151

Radionuclide Production Cross Section 0.000 To 8143. %

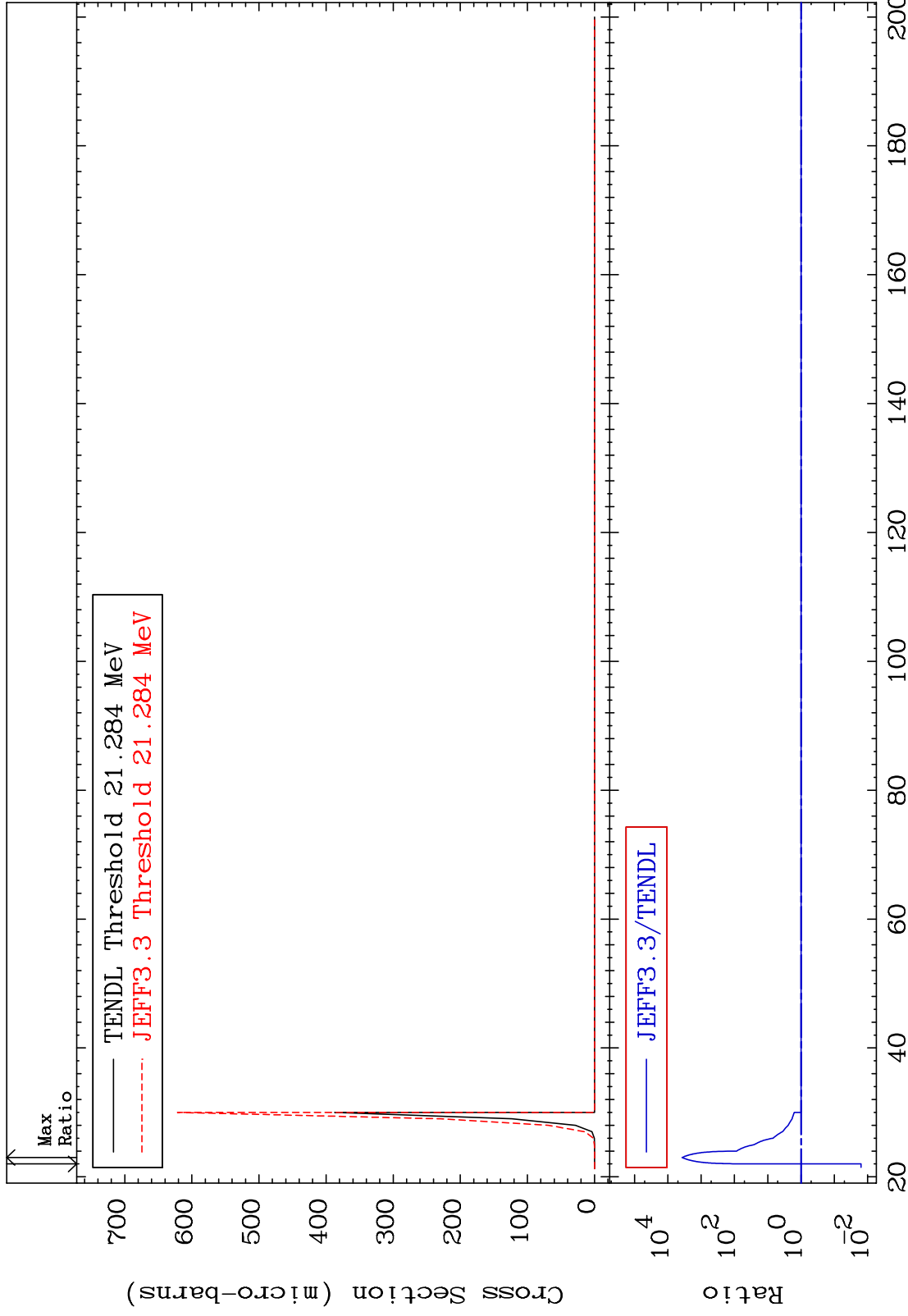


MAT 6246

(n,3n) p:61-Pm-148g

62-Sm-151

Radionuclide Production Cross Section -98.42 To 9999. %

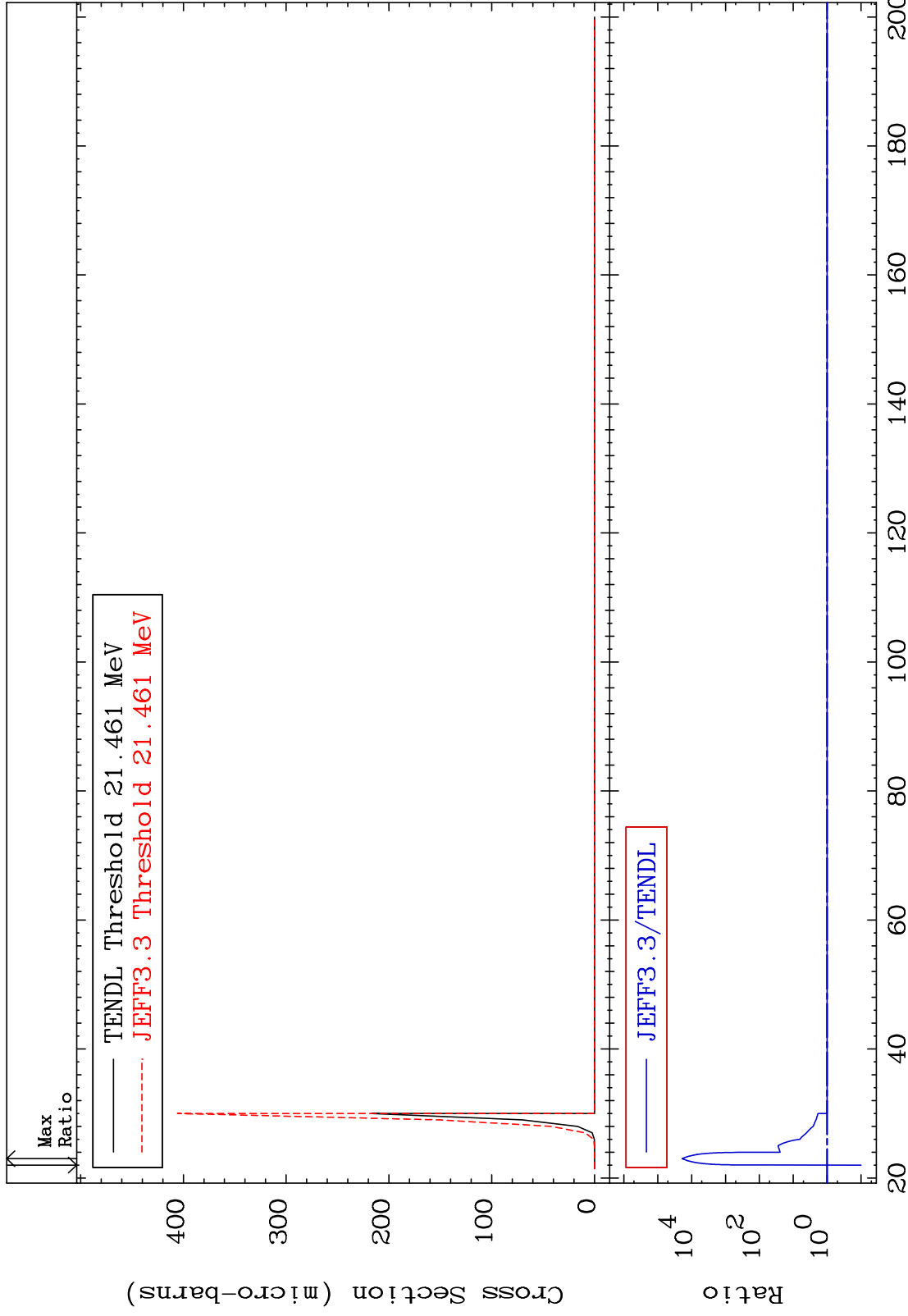


MAT 6246

(n,3n) p:61-Pm-148m3

62-Sm-151

Radionuclide Production Cross Section -89.99 To 9999. %



87

Incident Energy (MeV)

62-Sm-151