

Program Complot  
(Version 2018-1)

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

Press Mouse Button to Start

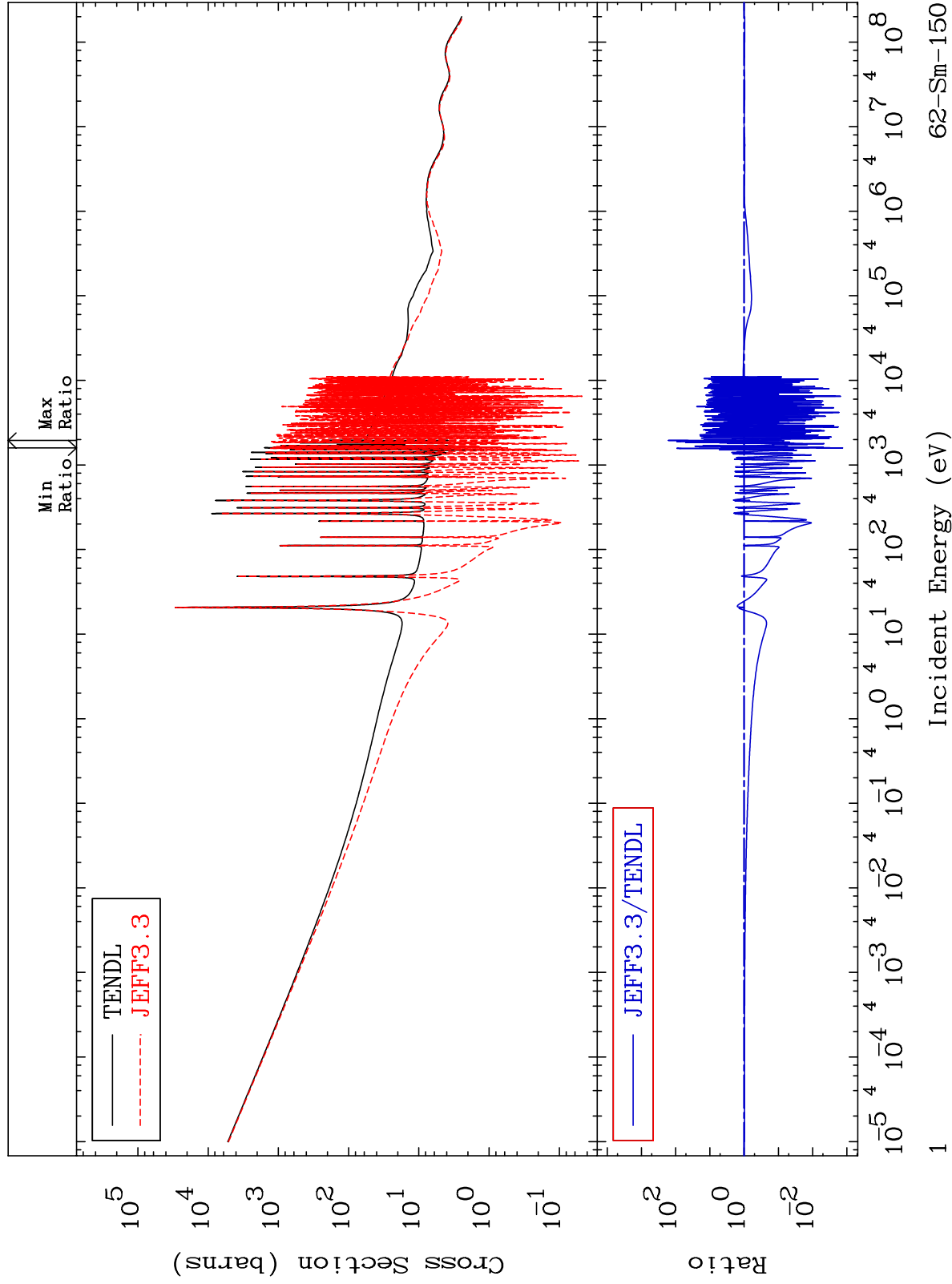
MAT 6243

Total

62-Sm-150

Cross Section

-99.87 To 9999. %



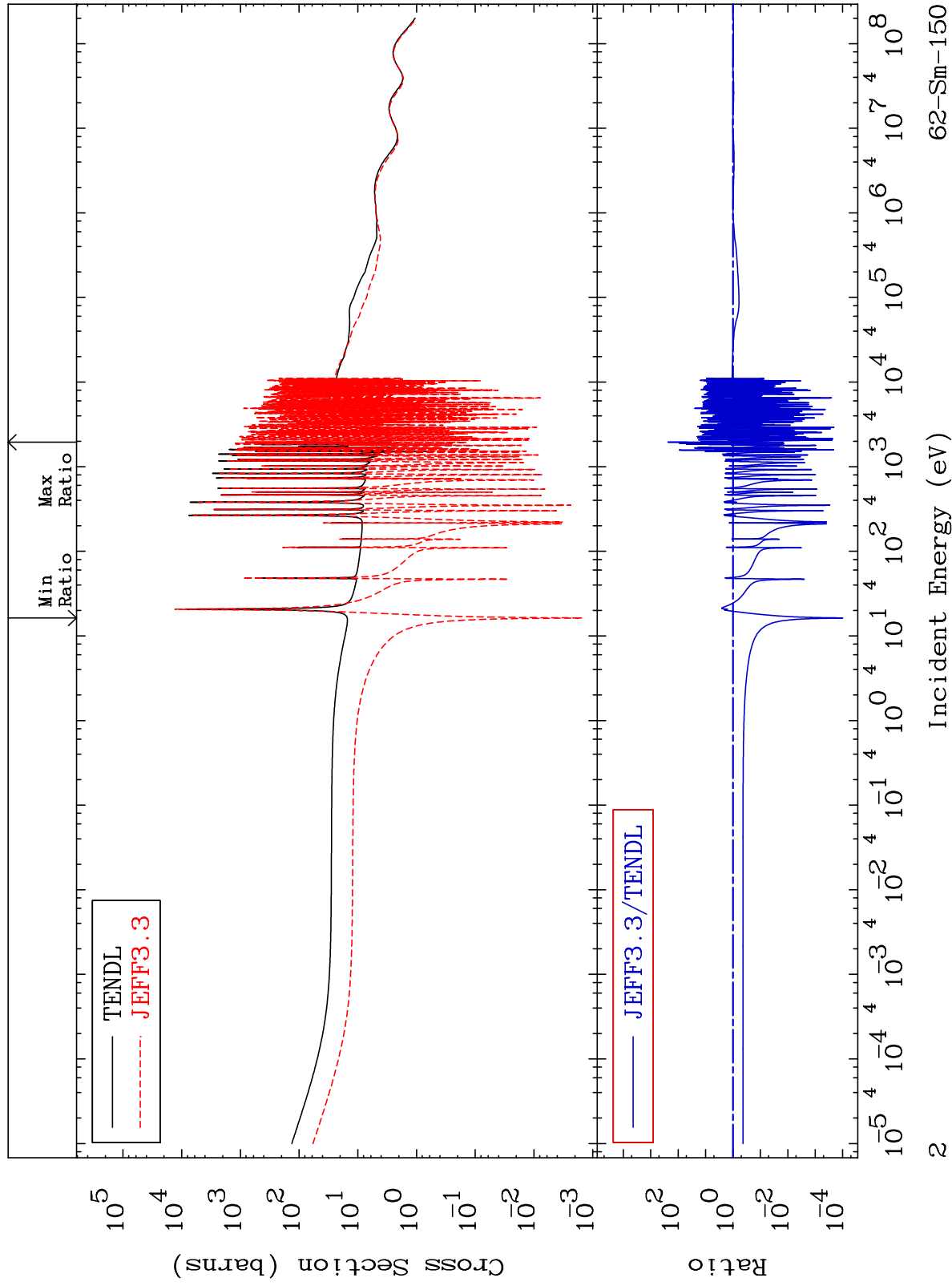
62-Sm-150

MAT 6243

Elastic

62-Sm-150

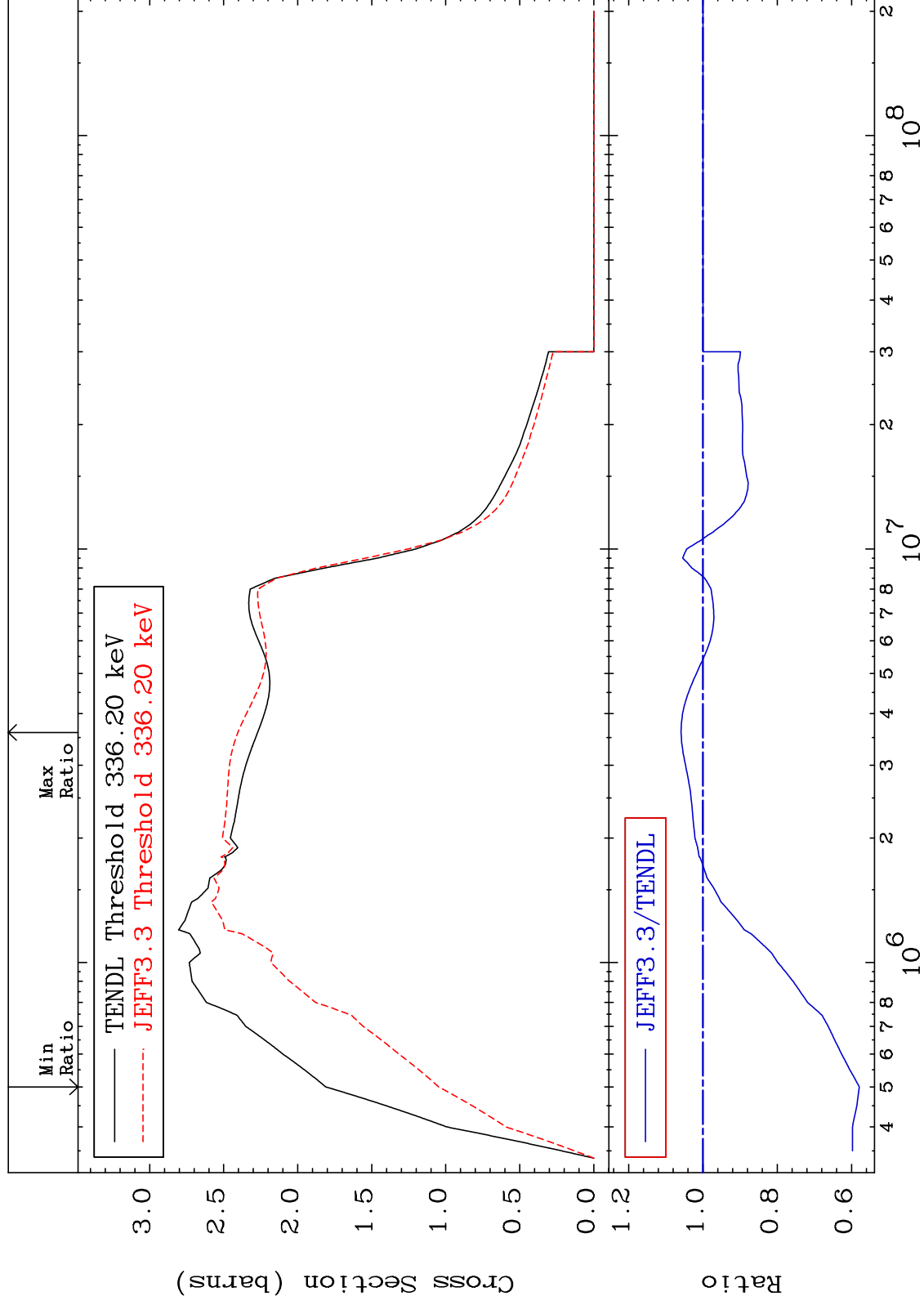
Cross Section -99.99 To 9999. %



MAT 6243

Inelastic  
Cross Section

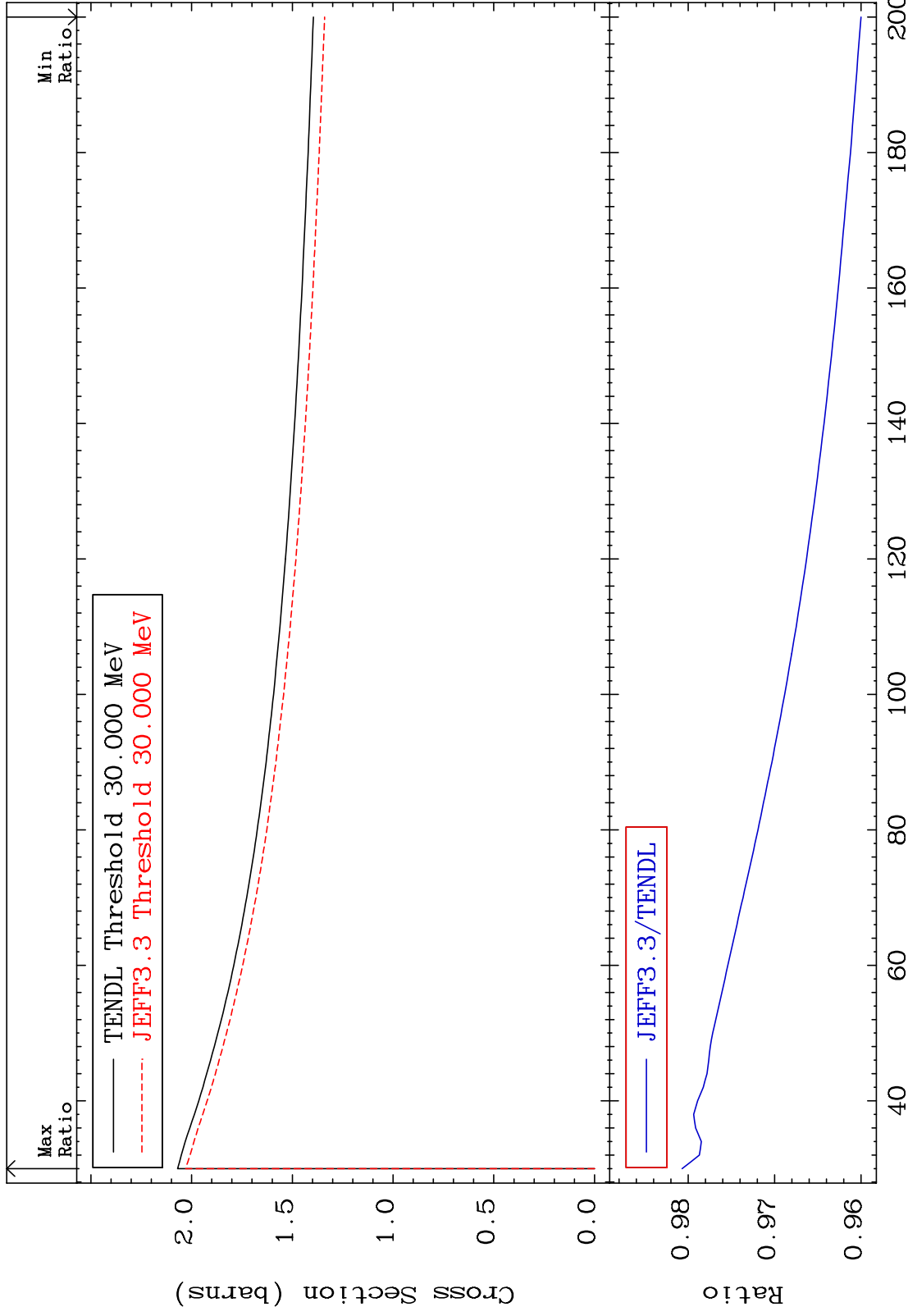
62-Sm-150  
-42.09 To 5.881 %



MAT 6243

(n, remainder)  
Cross Section

62-Sm-150  
-4.001 To -1.929%



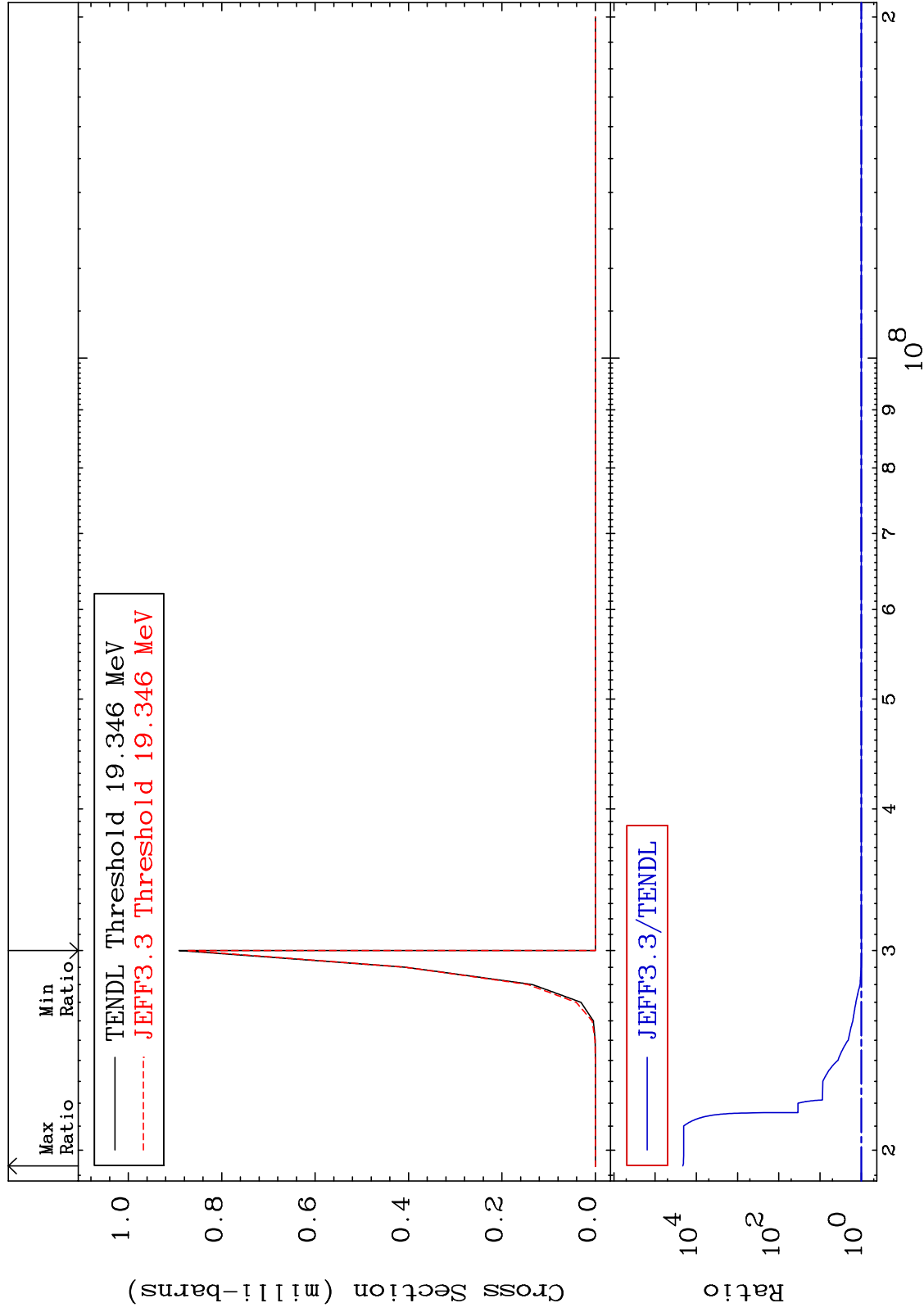
MAT 6243

(n,2n) d

62-Sm-150

Cross Section

-1.778 To 9999. %



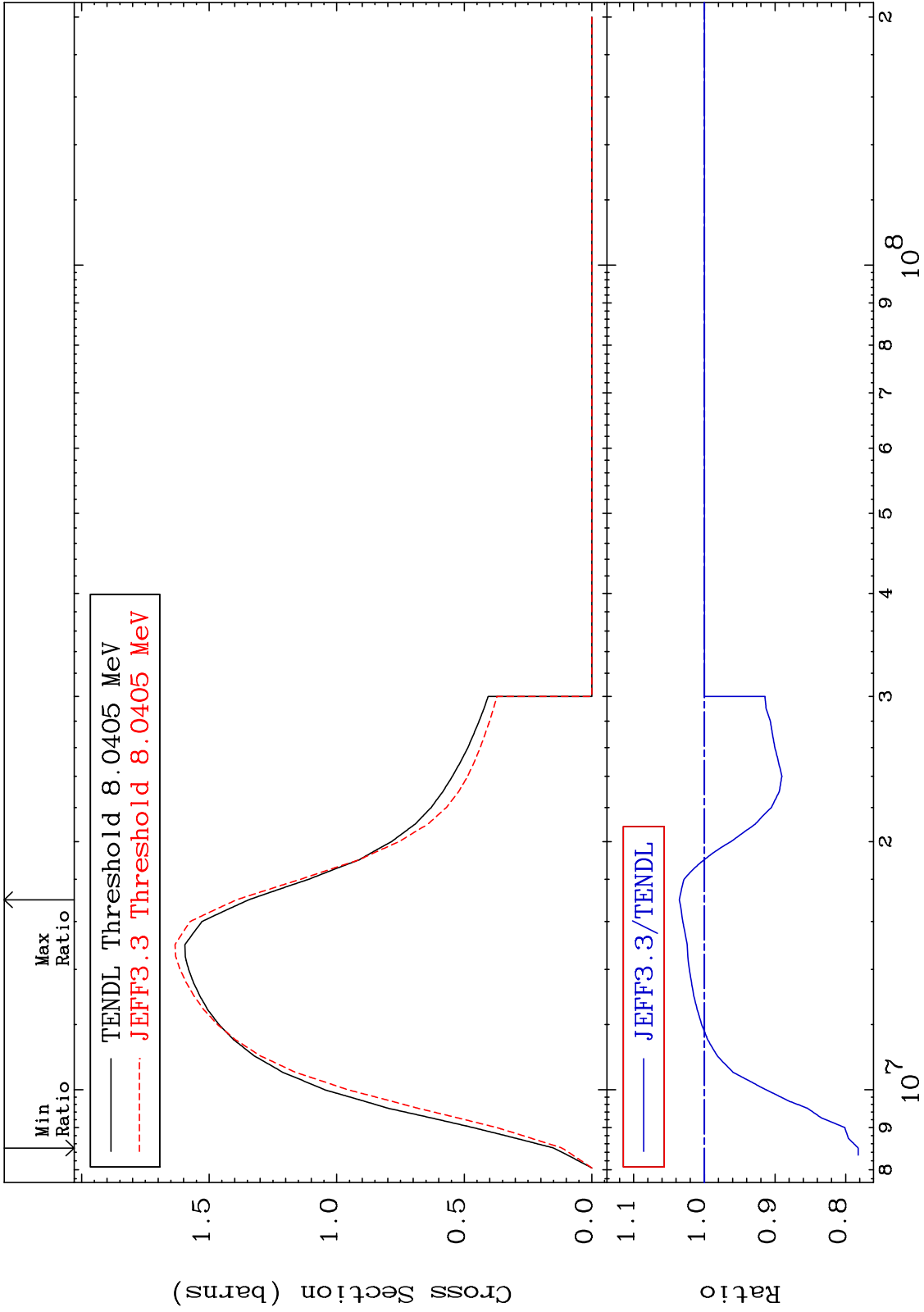
MAT 6243

(n, 2n)

62-Sm-150

Cross Section

-21.78 To 3.535 %



Incident Energy (eV)

62-Sm-150

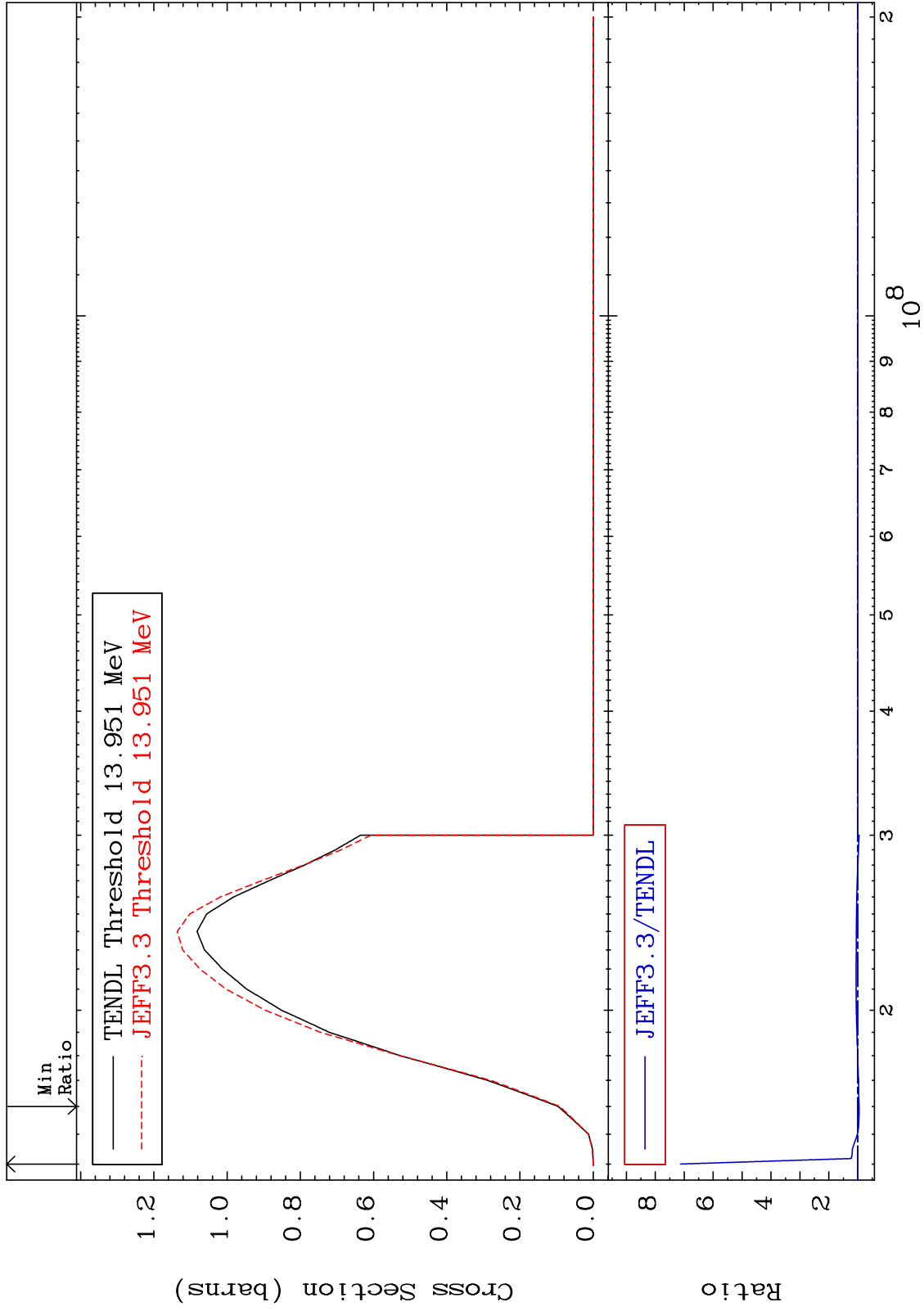
MAT 6243

(n, 3n)

62-Sm-150

Cross Section

-4.691 To 612.6 %





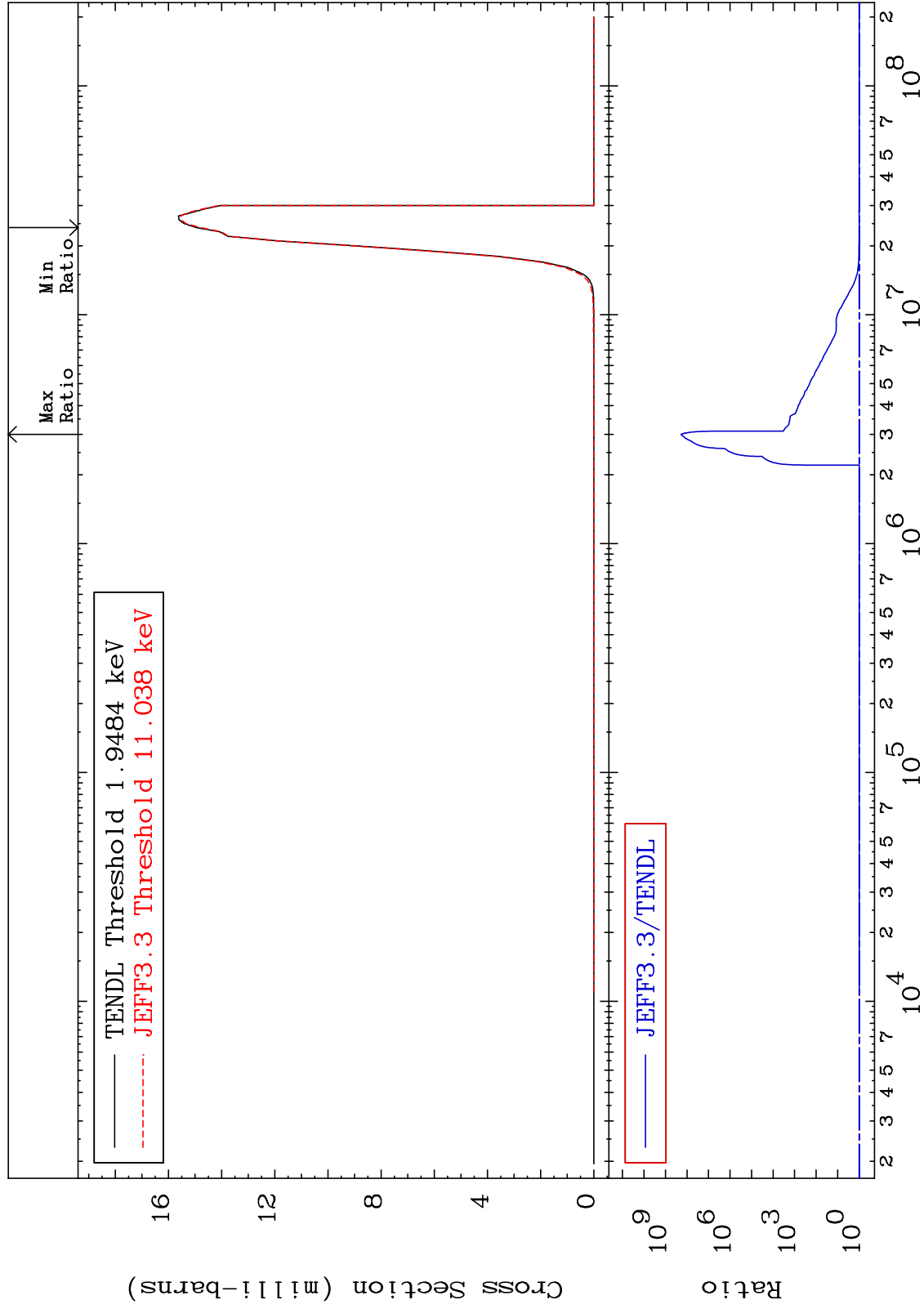
MAT 6243

$(n, n') \alpha$

Cross Section

62-Sm-150

-0.904 To 9999. %



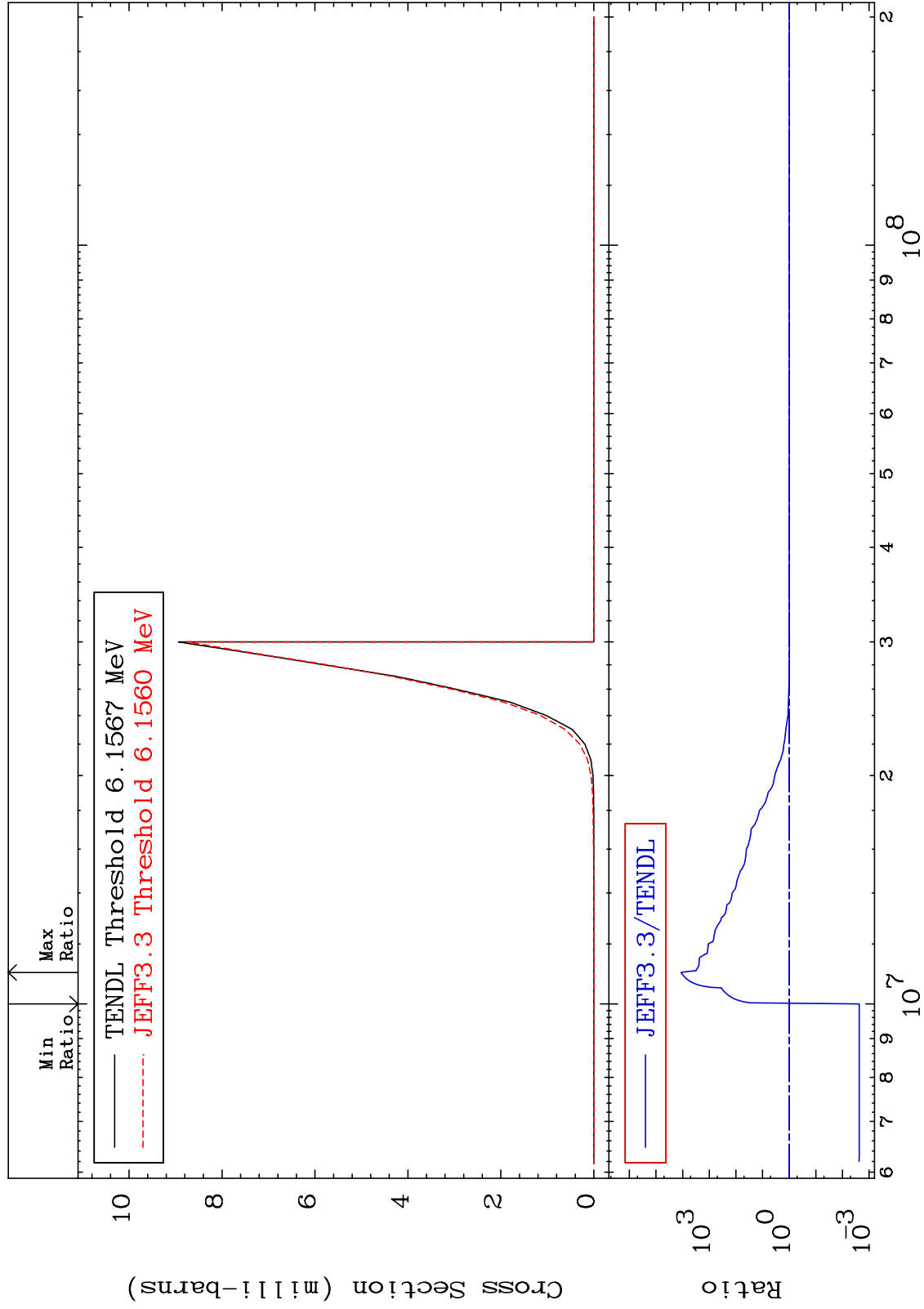
MAT 6243

(n,2n)  $\alpha$

62-Sm-150

Cross Section

-99.77 To 9999. %



9

Incident Energy (eV)

62-Sm-150

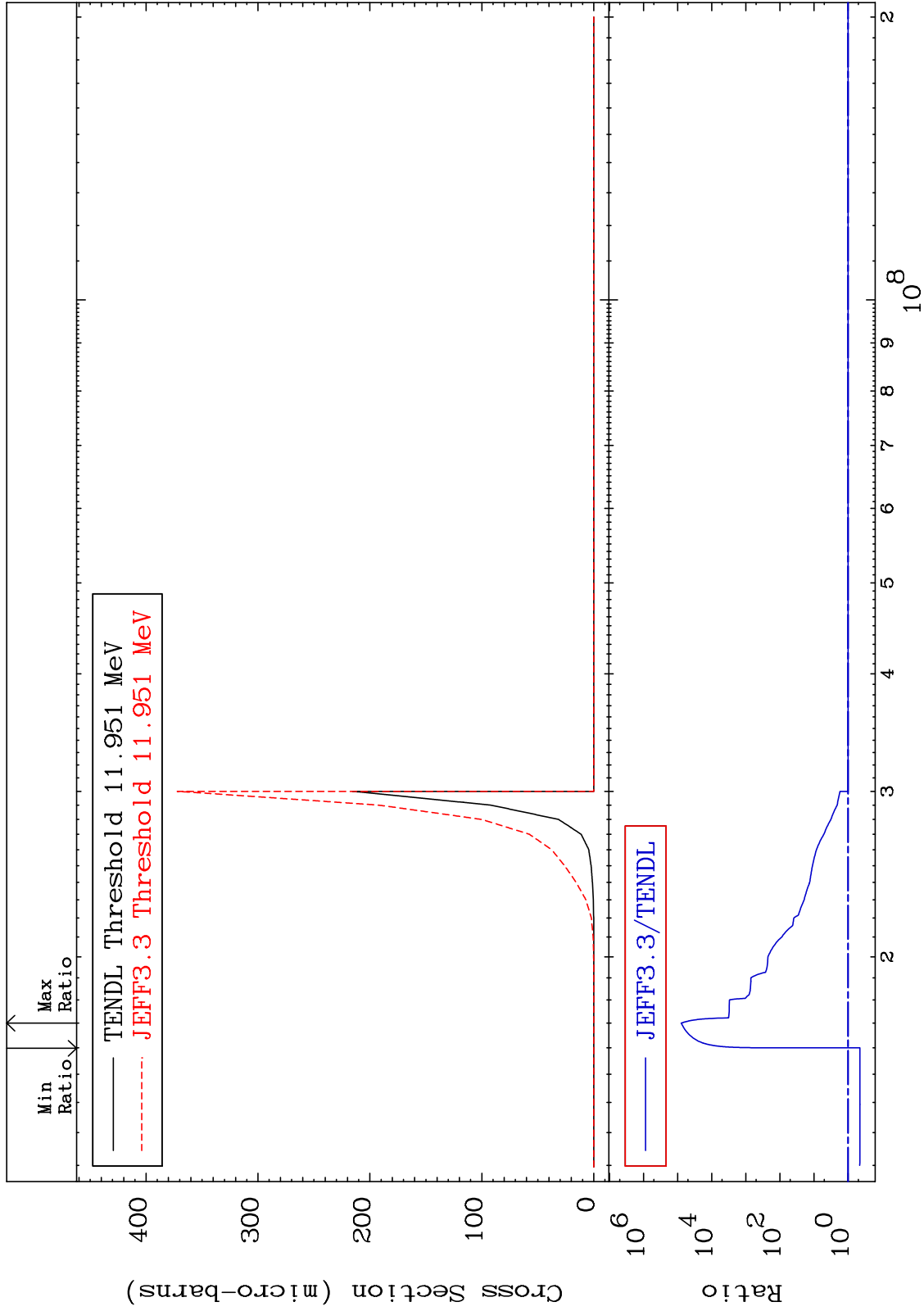
MAT 6243

(n,3n)  $\alpha$

62-Sm-150

Cross Section

-55.23 To 9999. %



10

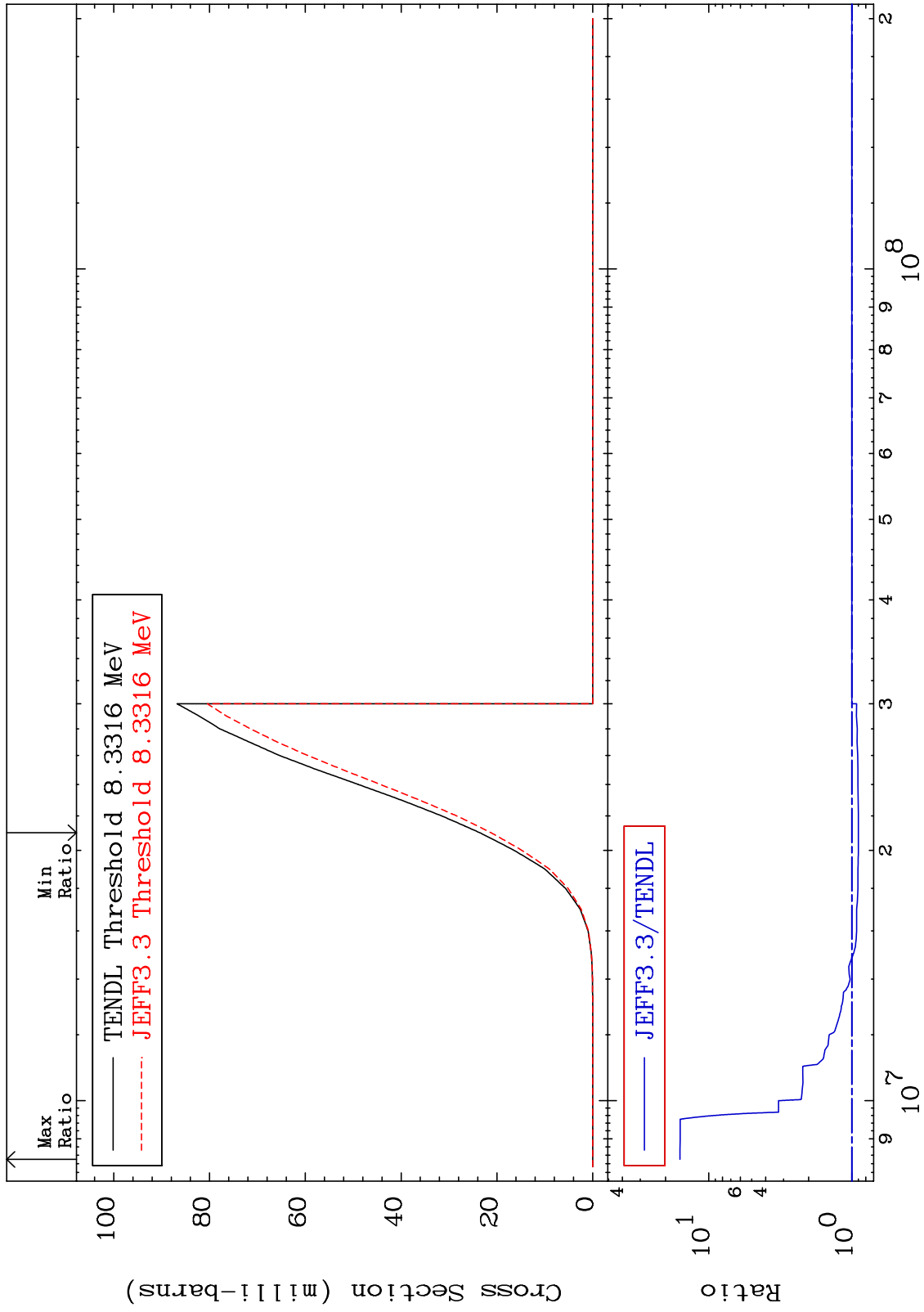
Incident Energy (eV)

62-Sm-150

MAT 6243

(n,n') p  
Cross Section

62-Sm-150  
-10.02 To 1485. %



11

Incident Energy (eV)

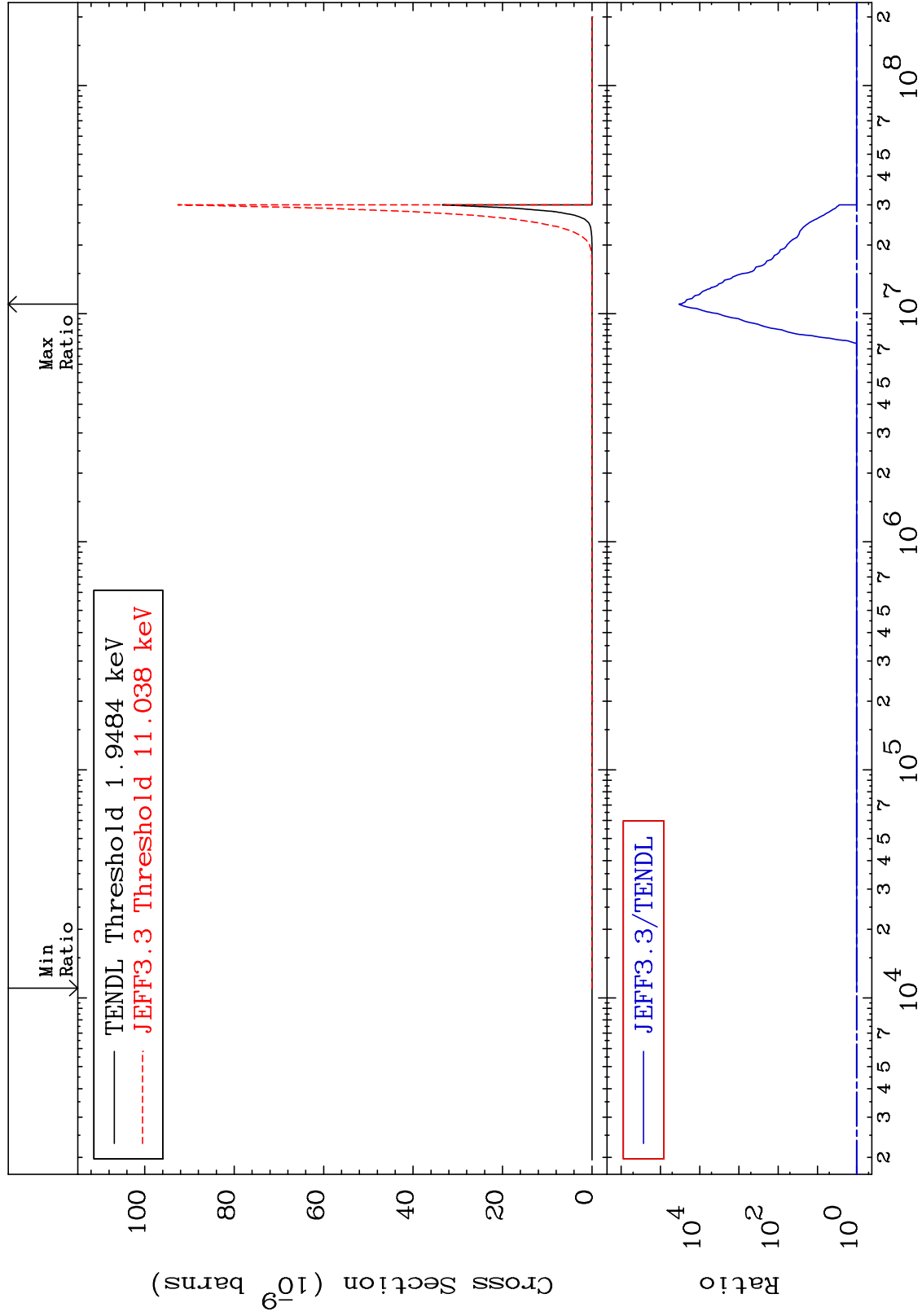
62-Sm-150

MAT 6243

(n, n') 2α

Cross Section

62-Sm-150  
To 9999. %  
0.000



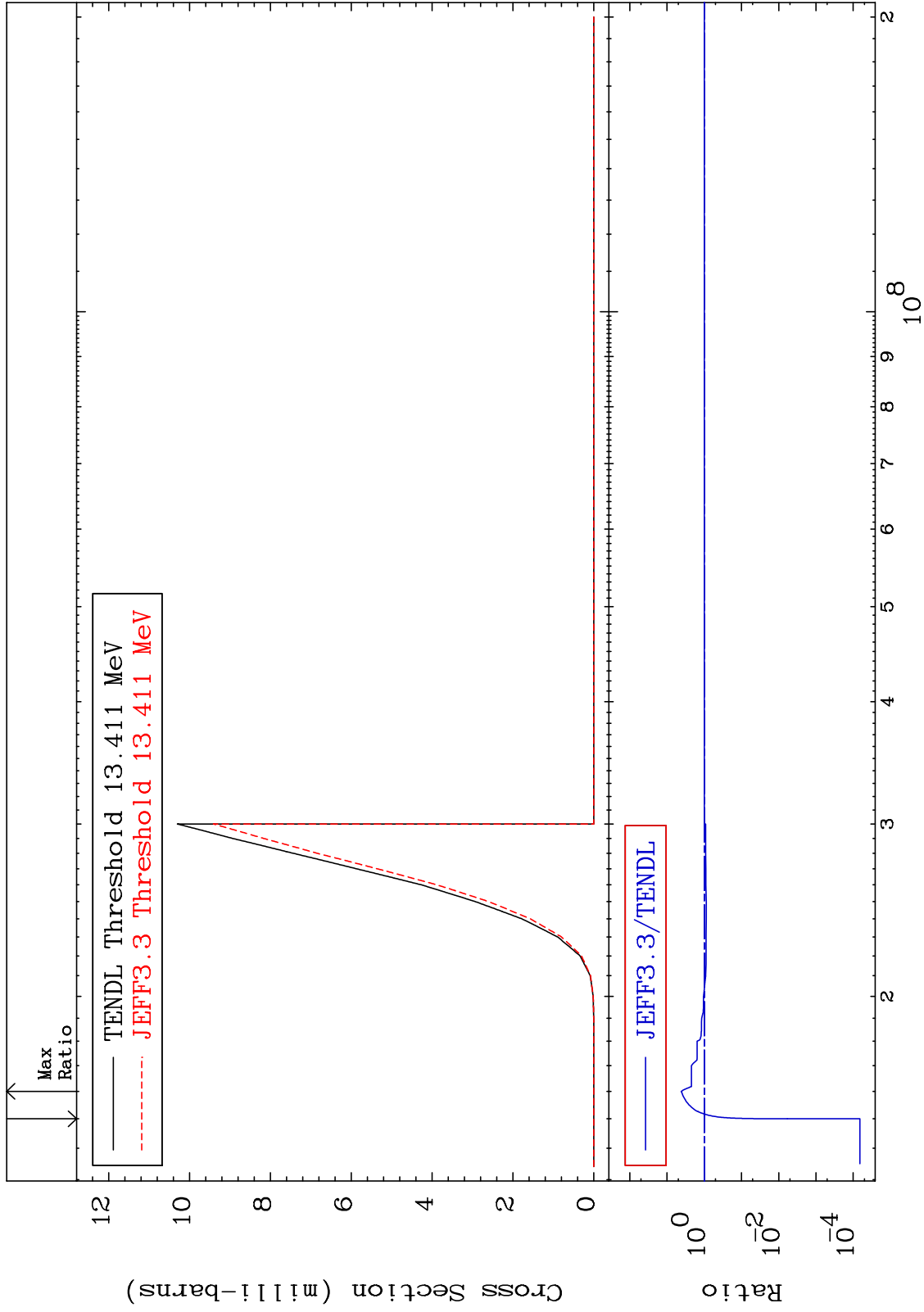
MAT 6243

(n, n') d

62-Sm-150

Cross Section

-99.99 To 315.9 %



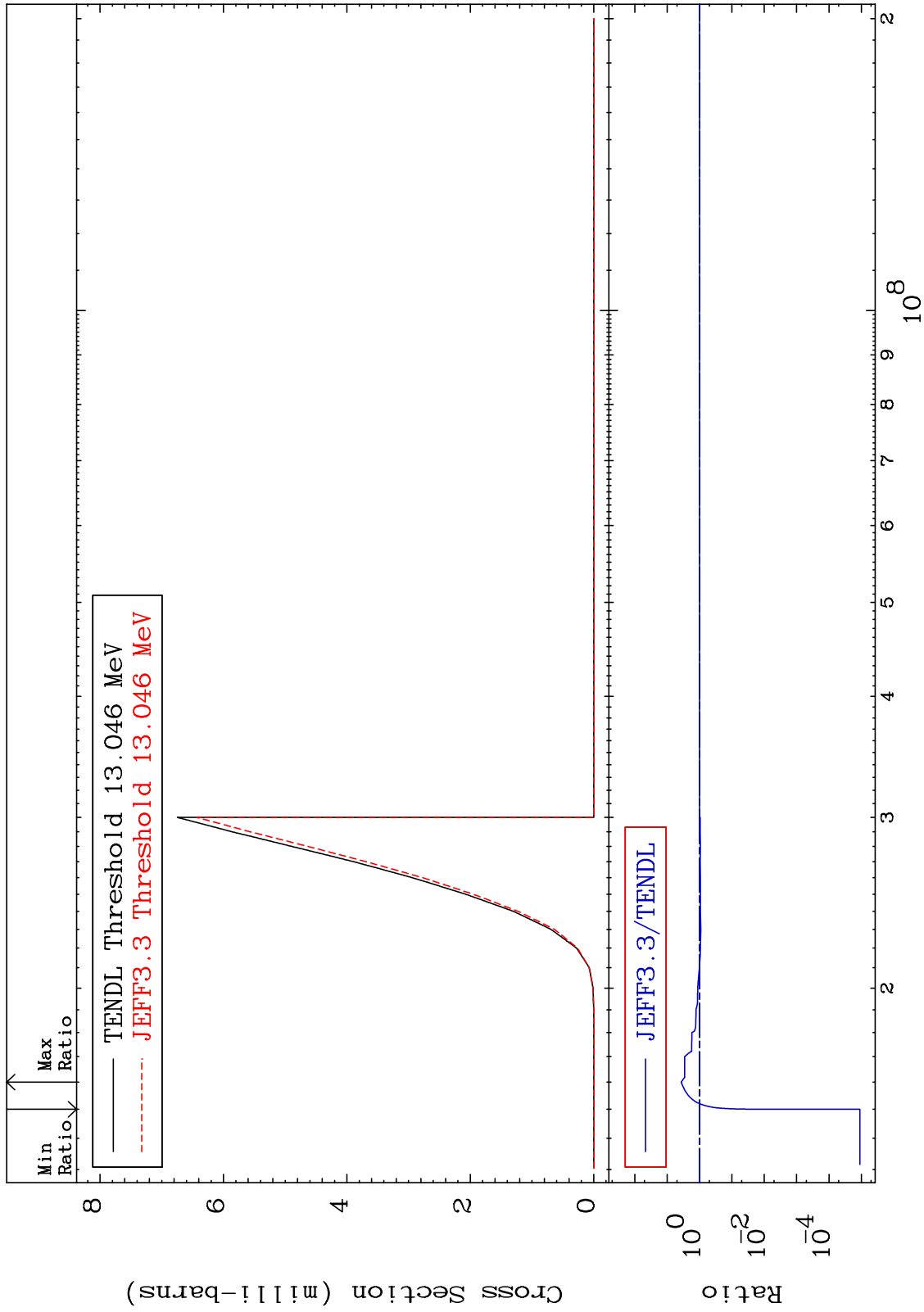
MAT 6243

(n, n') t

62-Sm-150

Cross Section

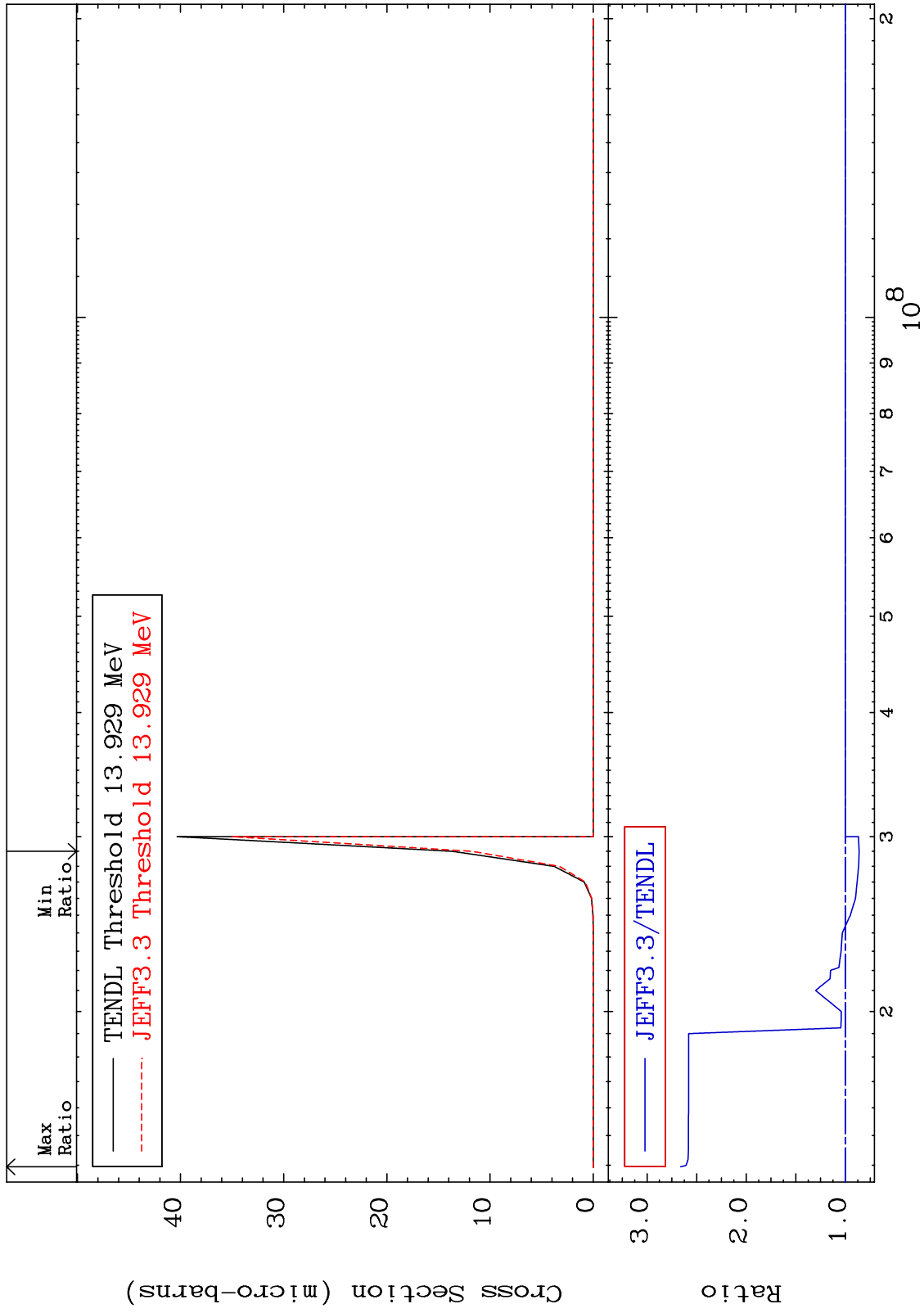
-100.0 To 267.8 %



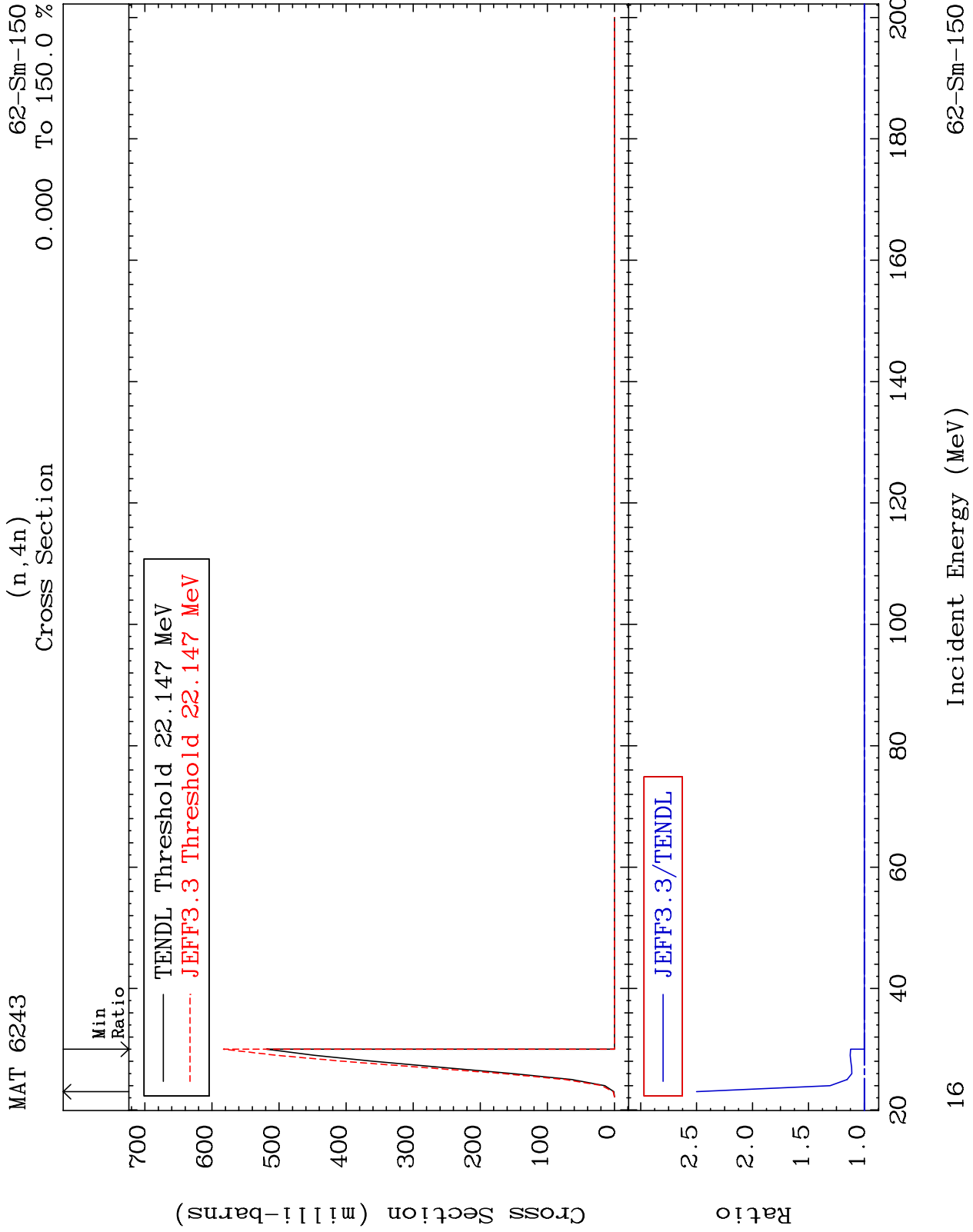
MAT 6243

(n, n') He-3  
Cross Section

62-Sm-150  
-13.93 To 166.1 %



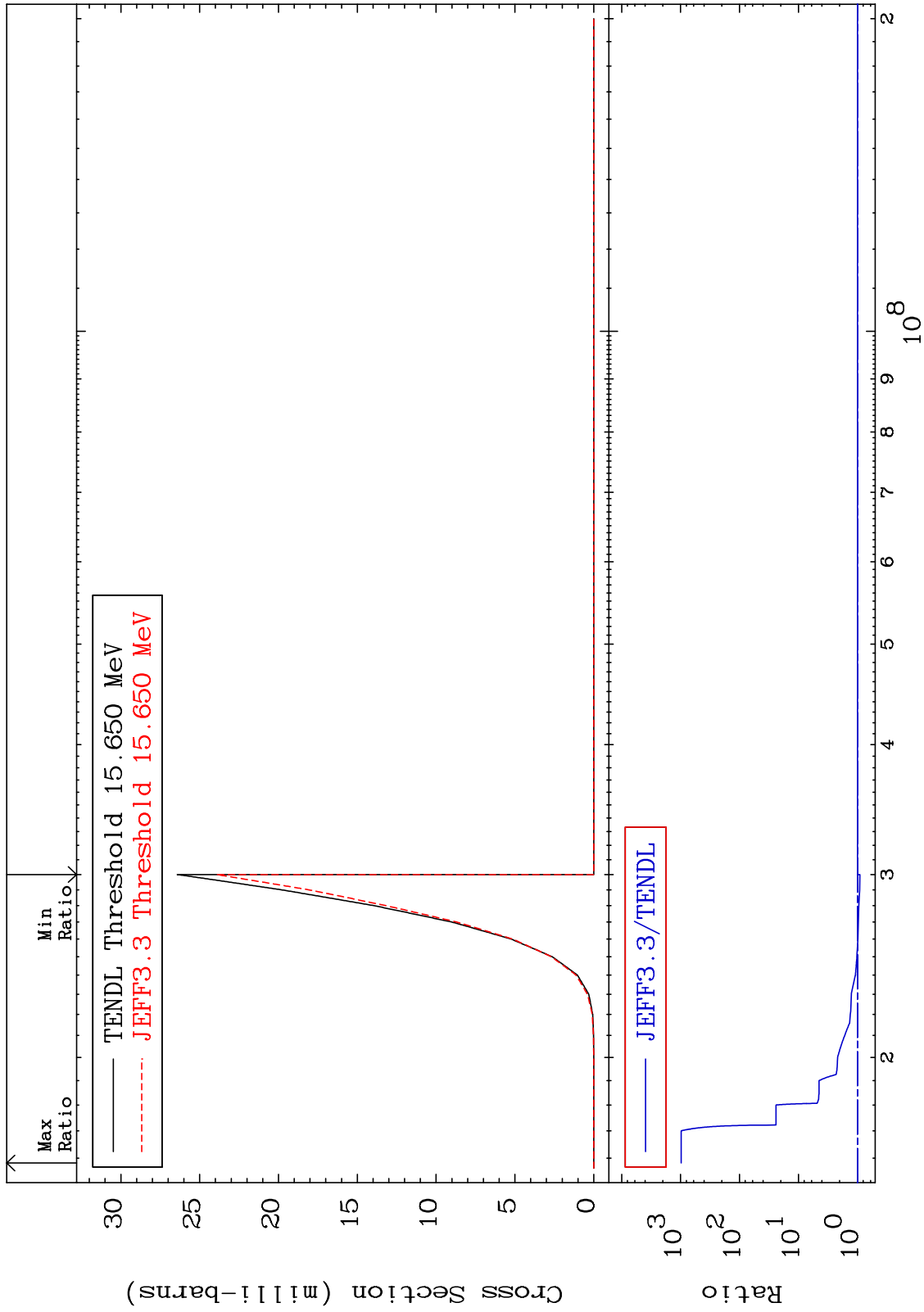




MAT 6243

(n,2n) p  
Cross Section

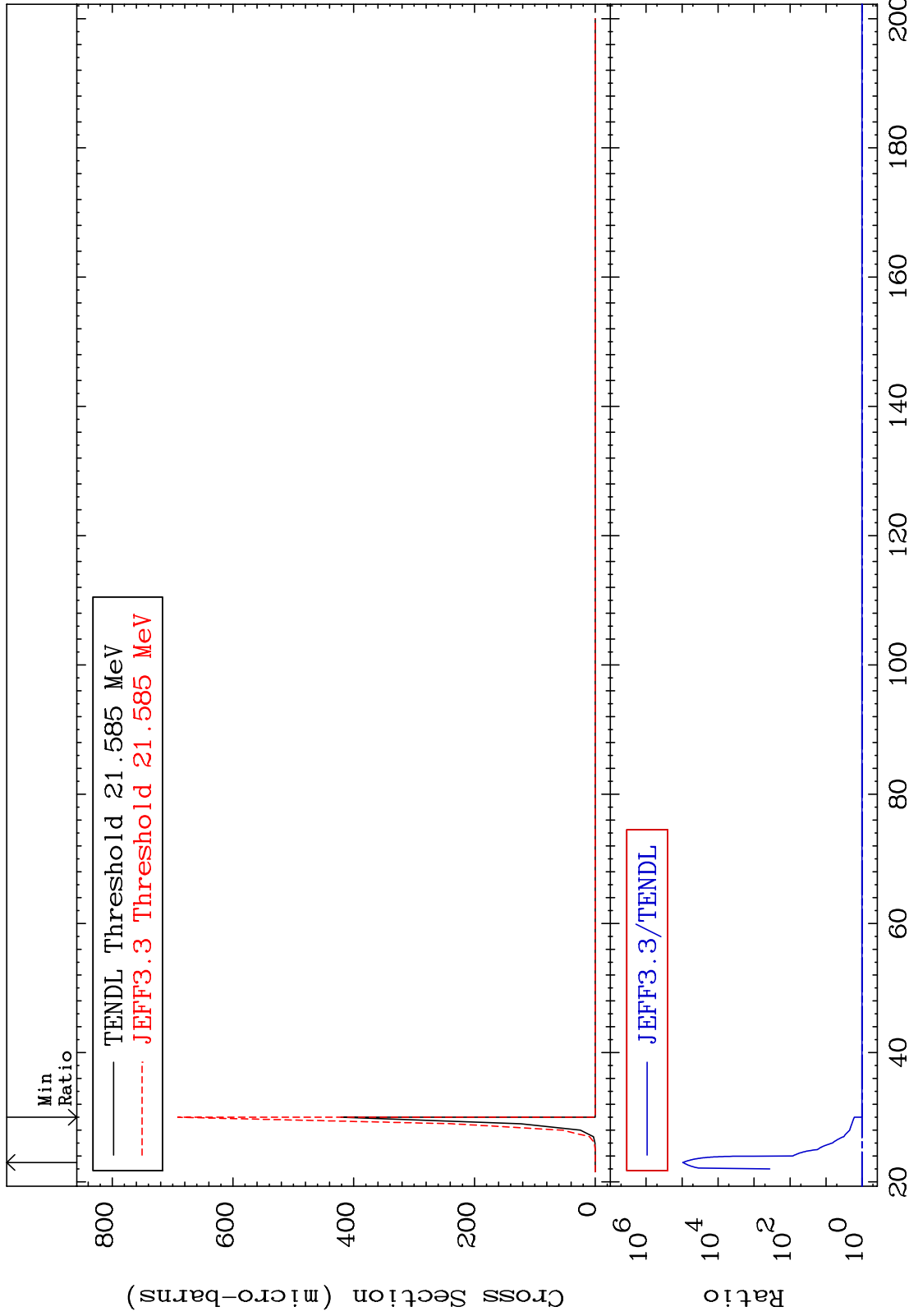
62-Sm-150  
-9.365 To 9999. %



MAT 6243

(n,3n) p  
Cross Section

62-Sm-150  
0.000 To 9999. %



MAT 6243

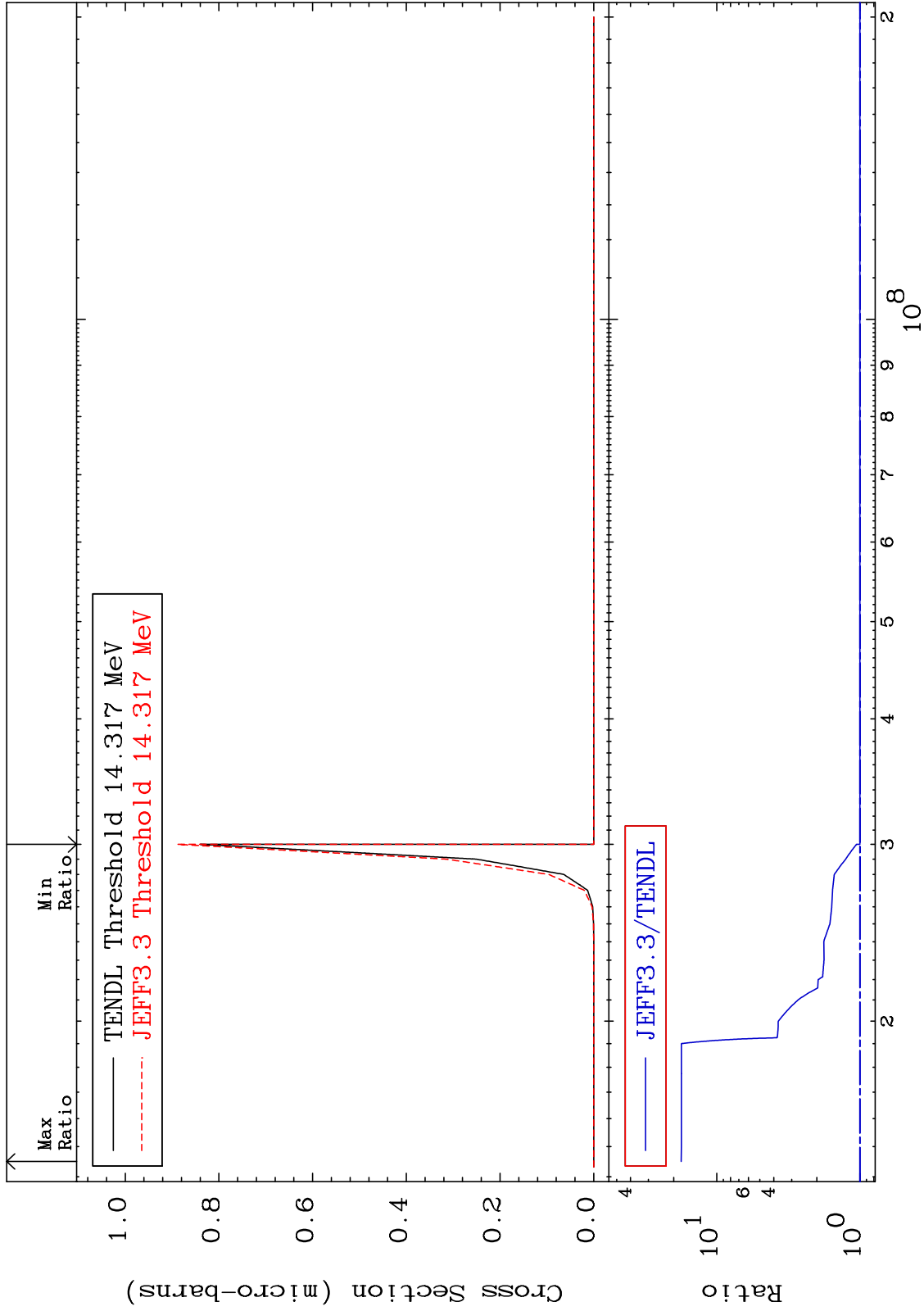
(n,2n) p

62-Sm-150

Cross Section

0.000

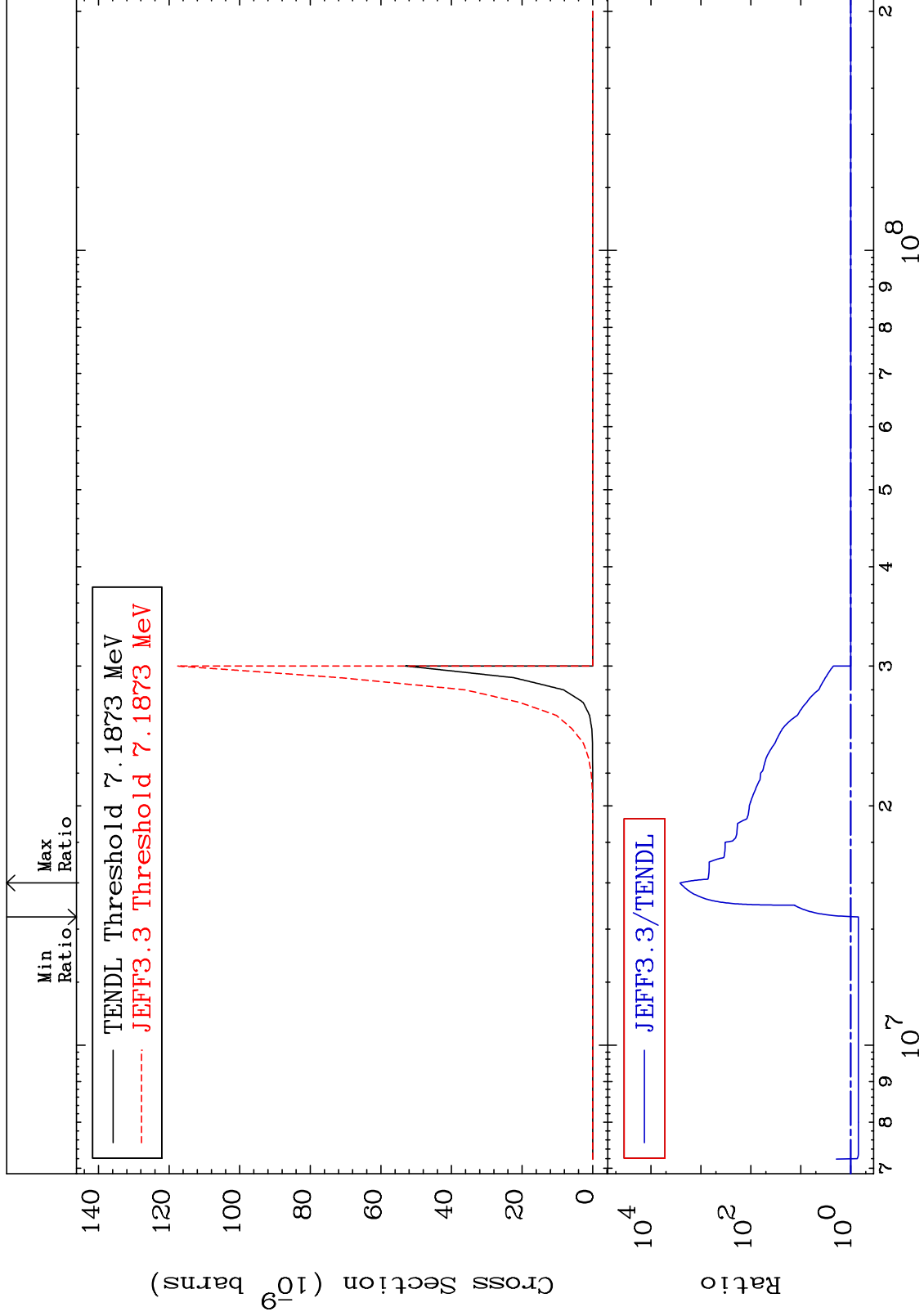
To 1670. %



MAT 6243

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

62-Sm-150  
-29.68 To 9999. %

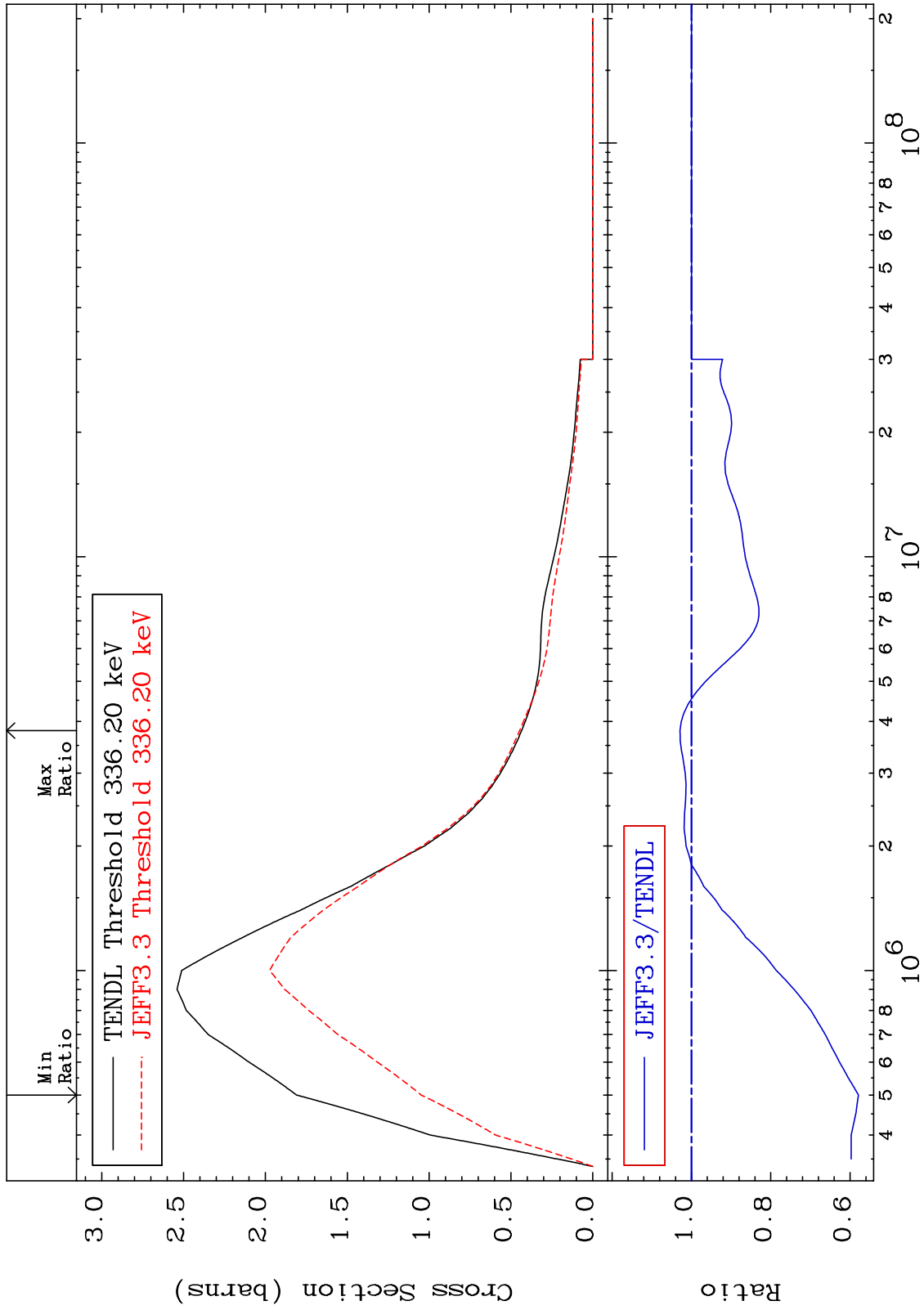


20

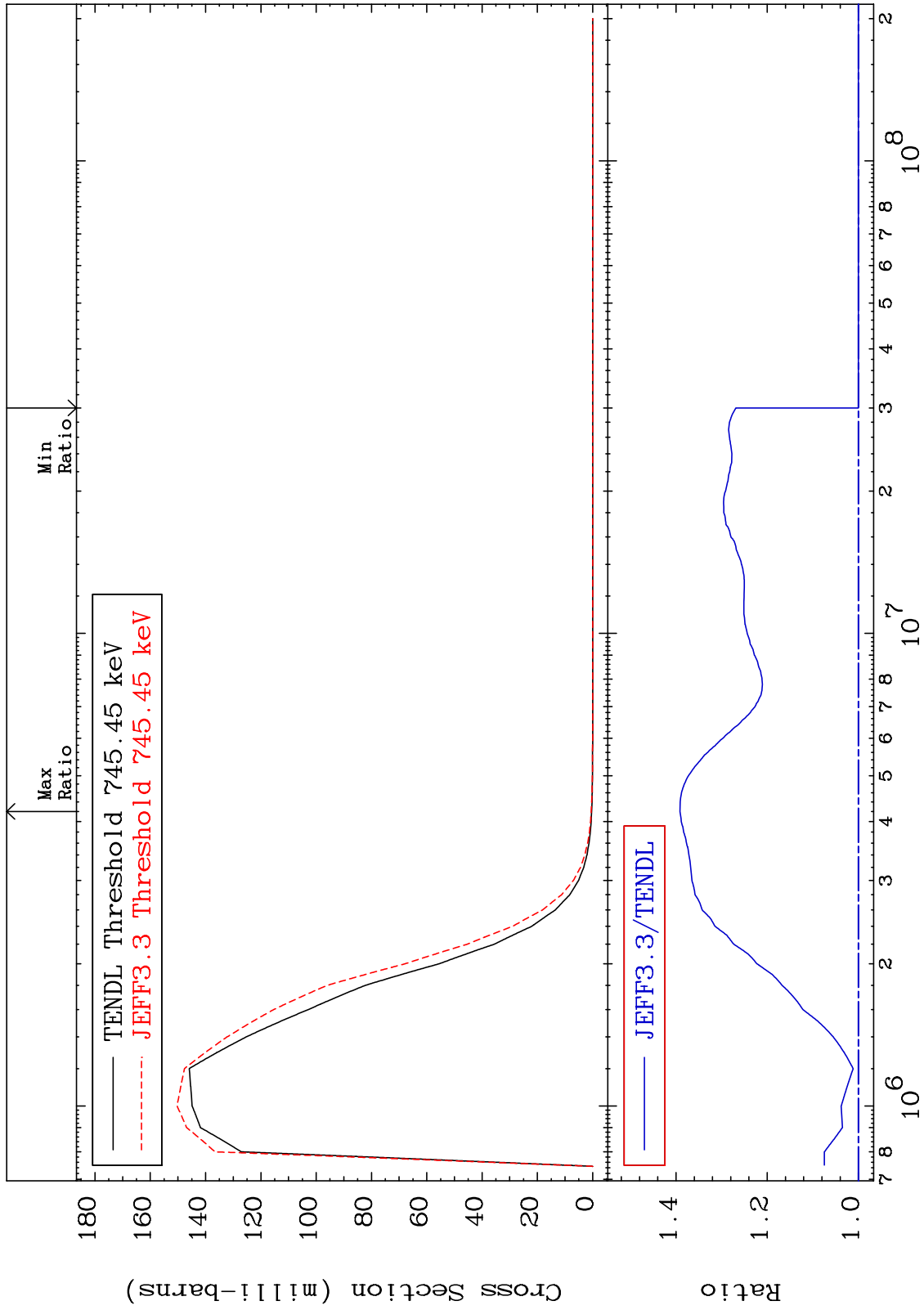
Incident Energy (eV)

62-Sm-150

MAT 6243      MT= 51 (n,n') Level      62-Sm-150  
 Cross Section      -42.09 To 2.872 %



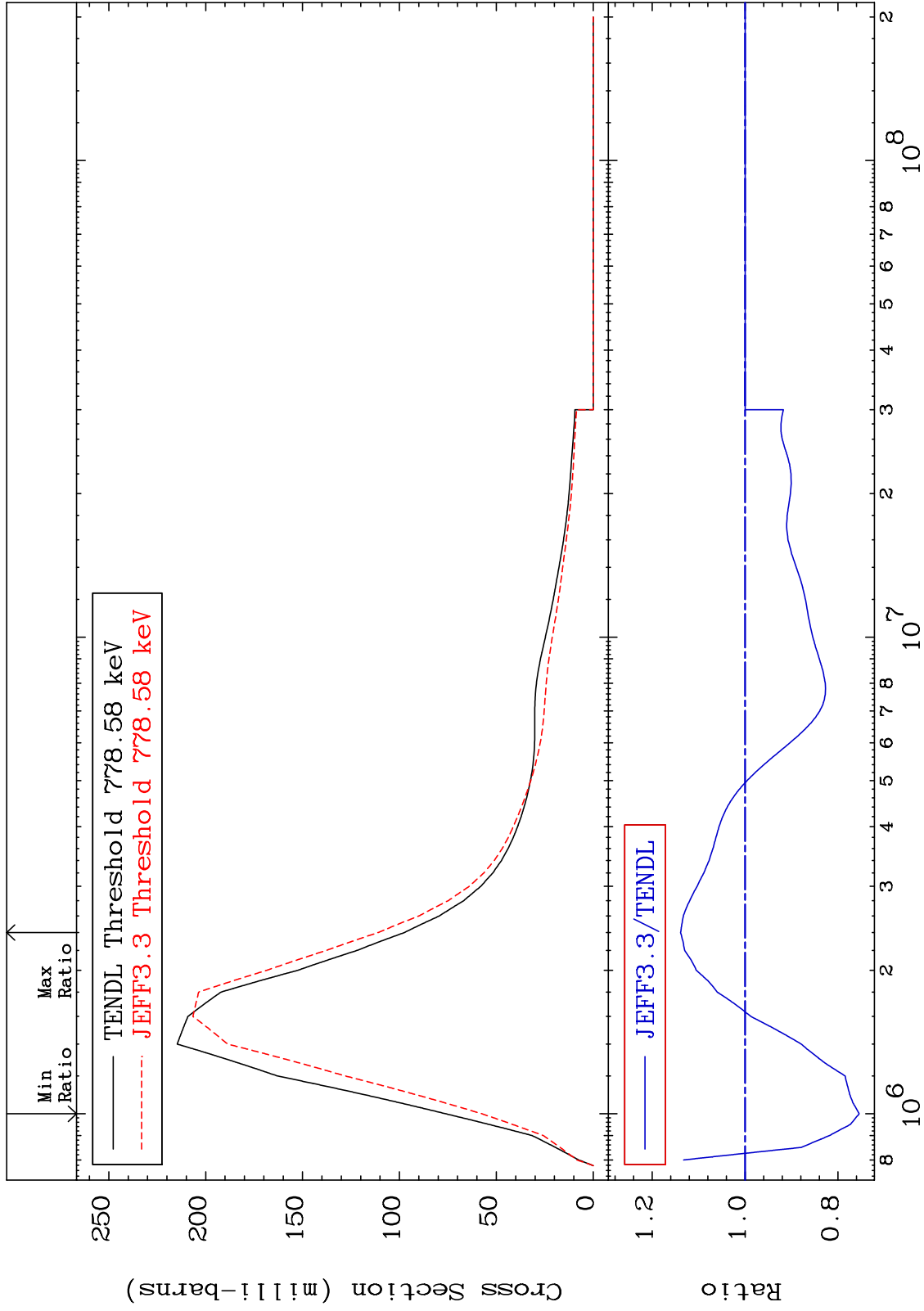
MAT 6243 MT= 52 (n, n') Level Cross Section 62-Sm-150 To 39.12 %



MAT 6243

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

62-Sm-150  
-24.56 To 13.87 %



23

Incident Energy (eV)

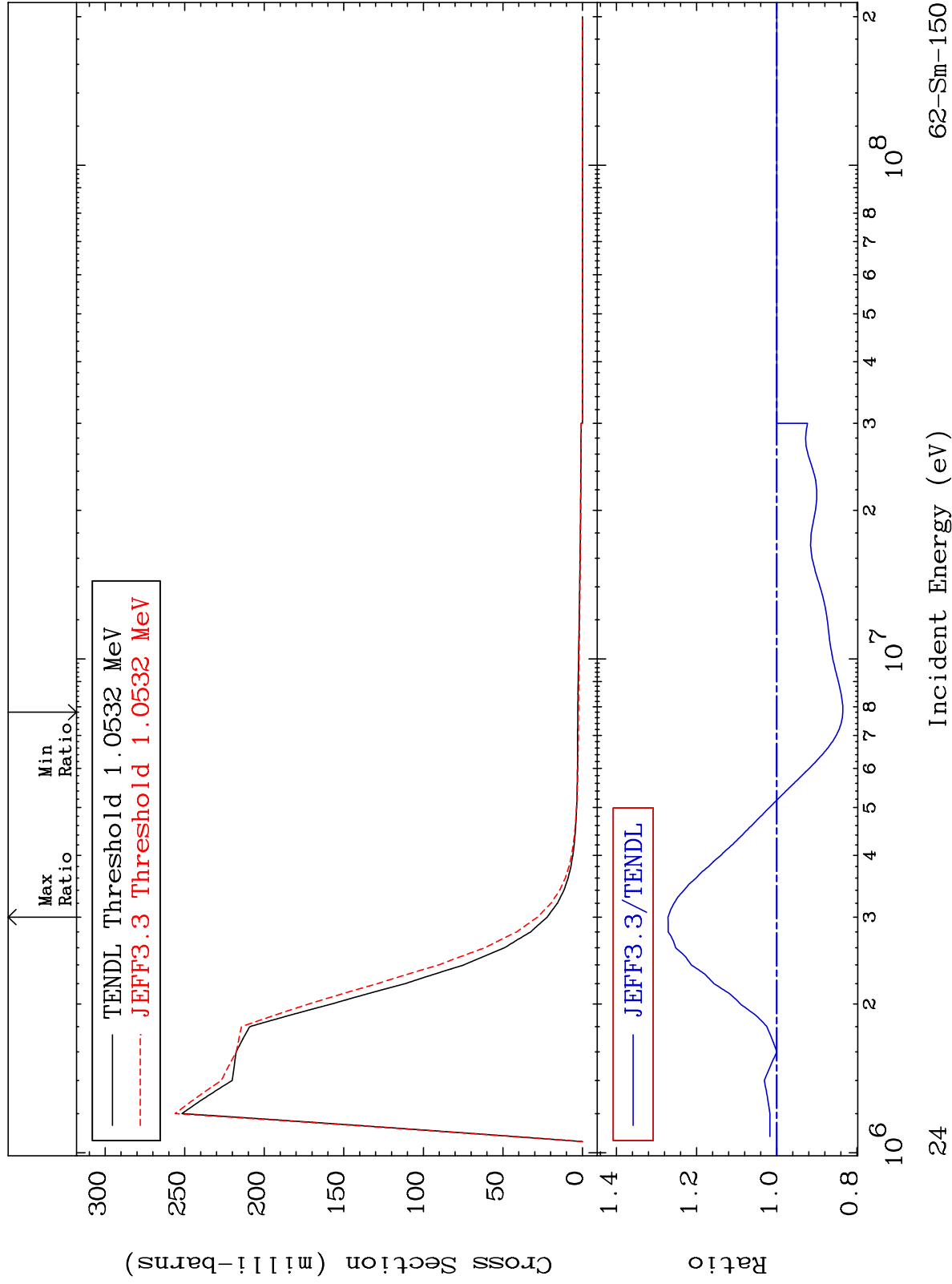
62-Sm-150

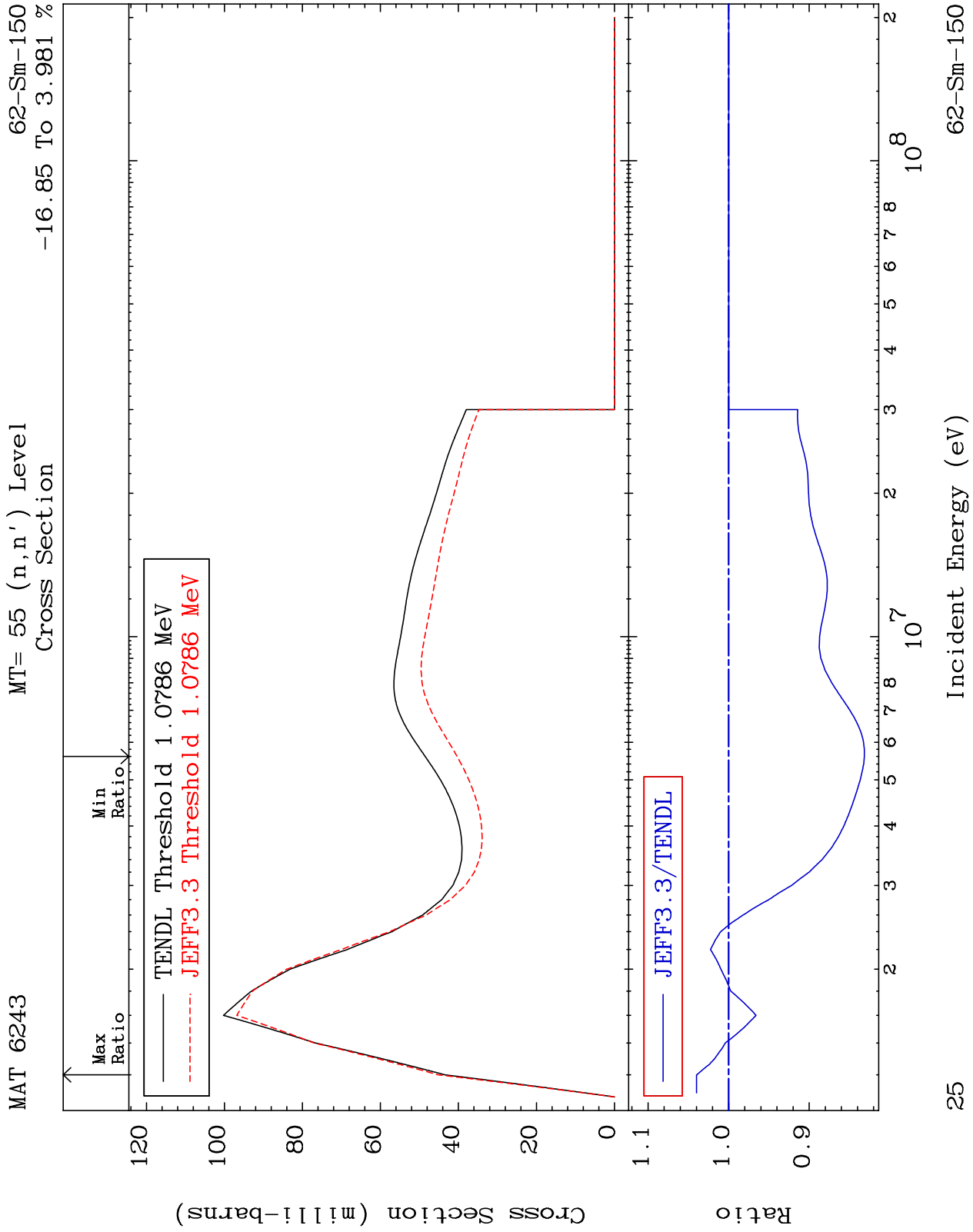


MAT 6243

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

62-Sm-150  
-16.49 To 27.11 %

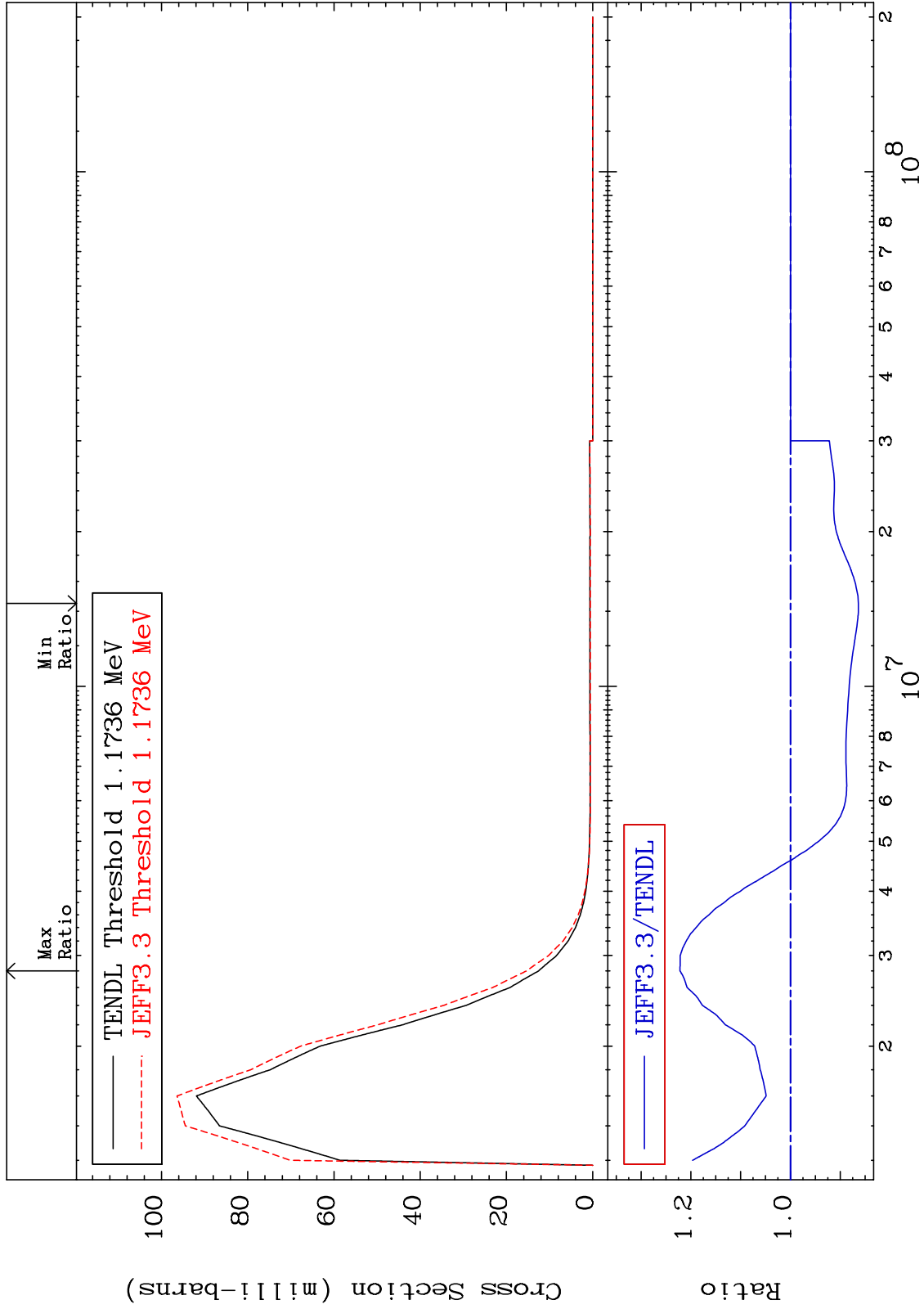




MAT 6243

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

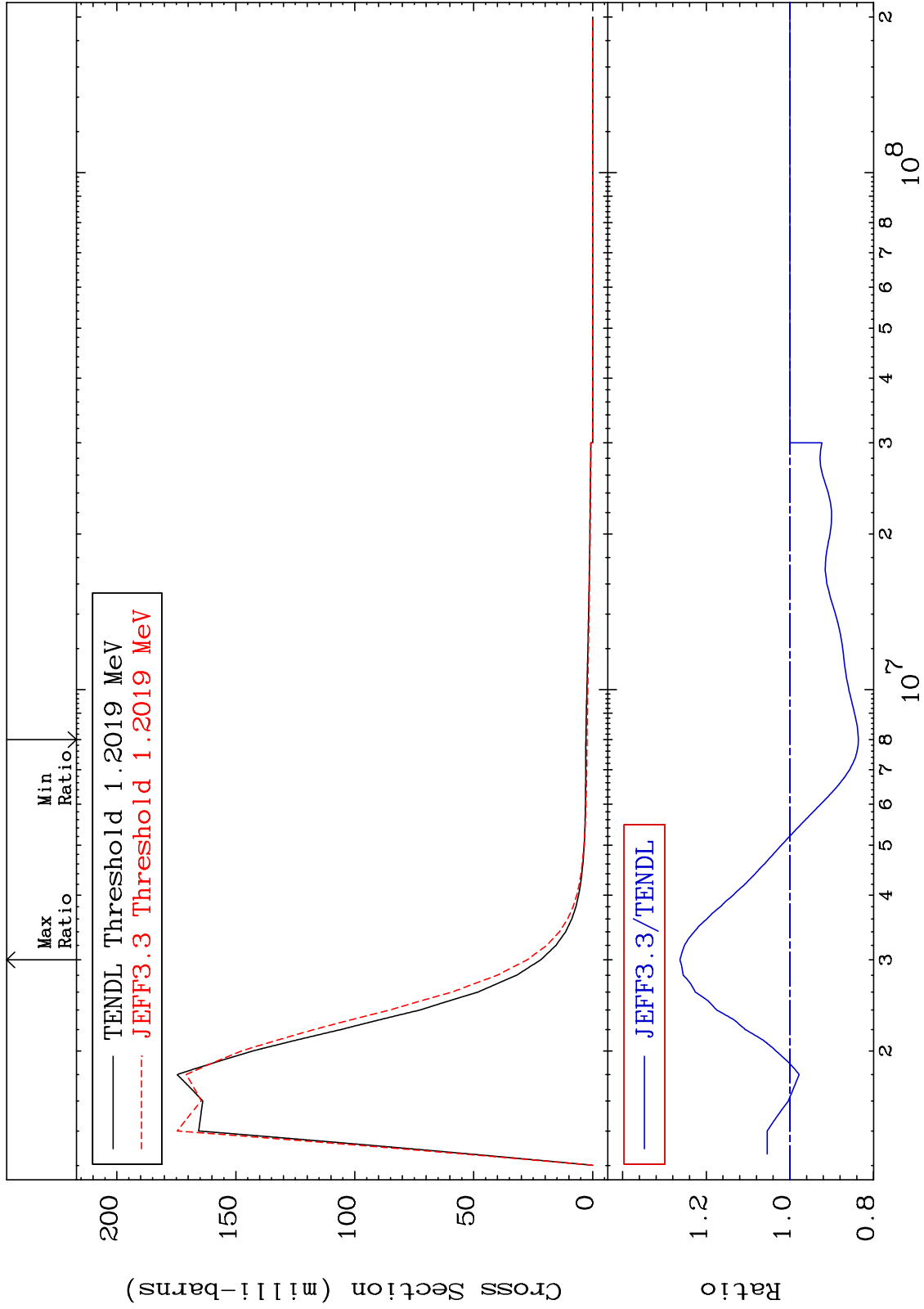
62-Sm-150  
-13.67 To 22.19 %



MAT 6243

MT= 57 (n, n') Level  
Cross Section

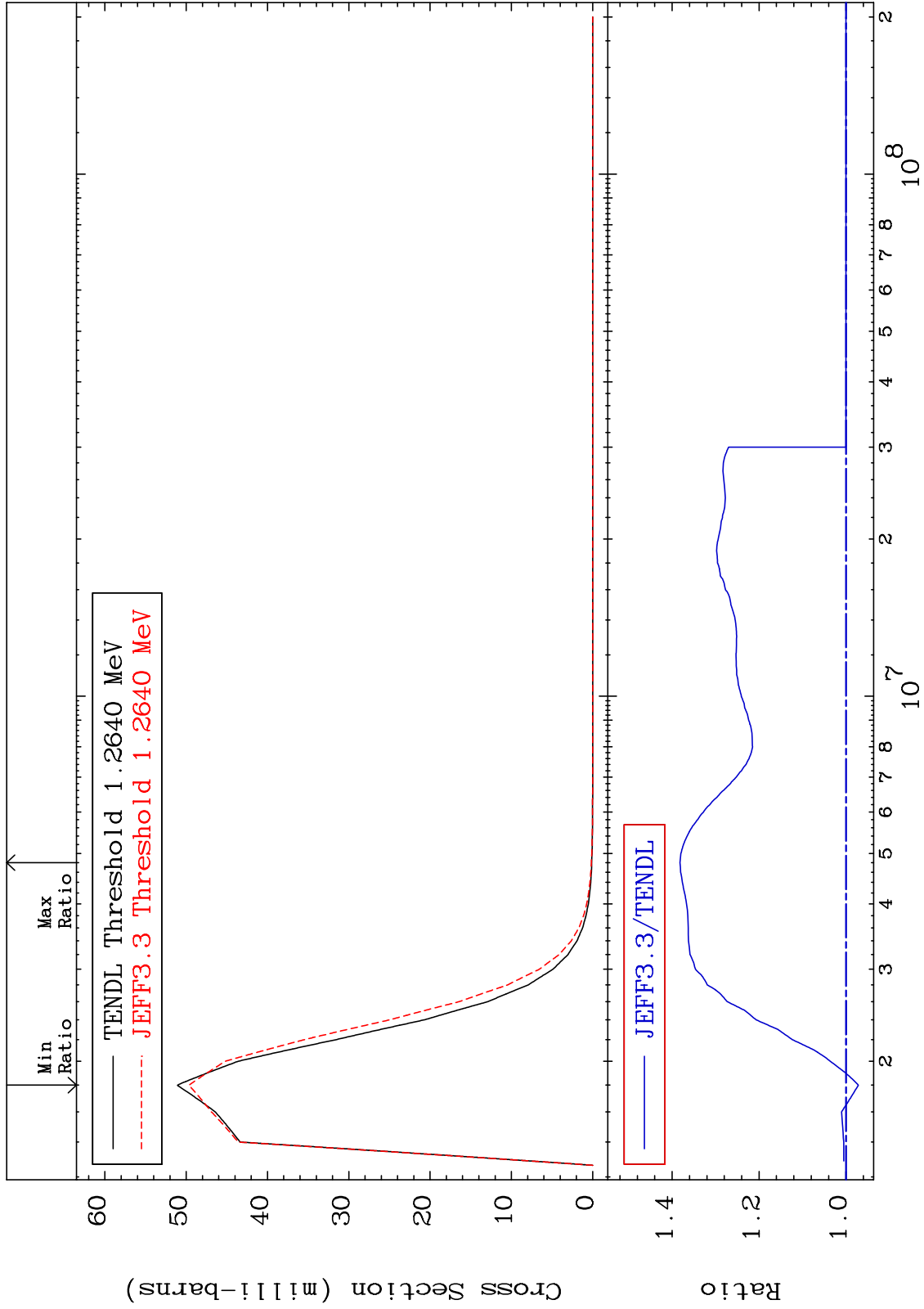
62-Sm-150  
-16.39 To 26.28 %



MAT 6243

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

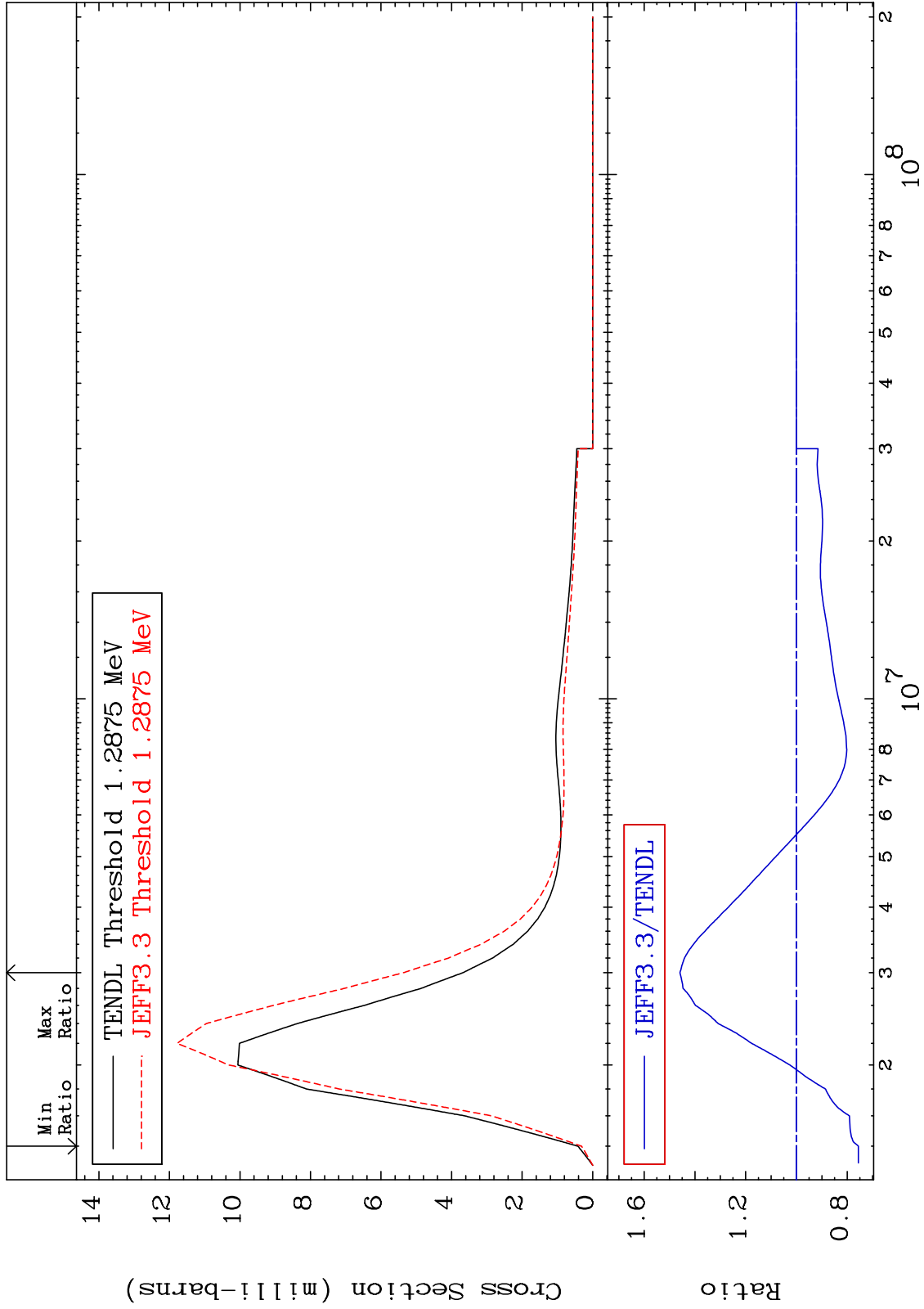
62-Sm-150  
-2.853 To 38.18 %



MAT 6243

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

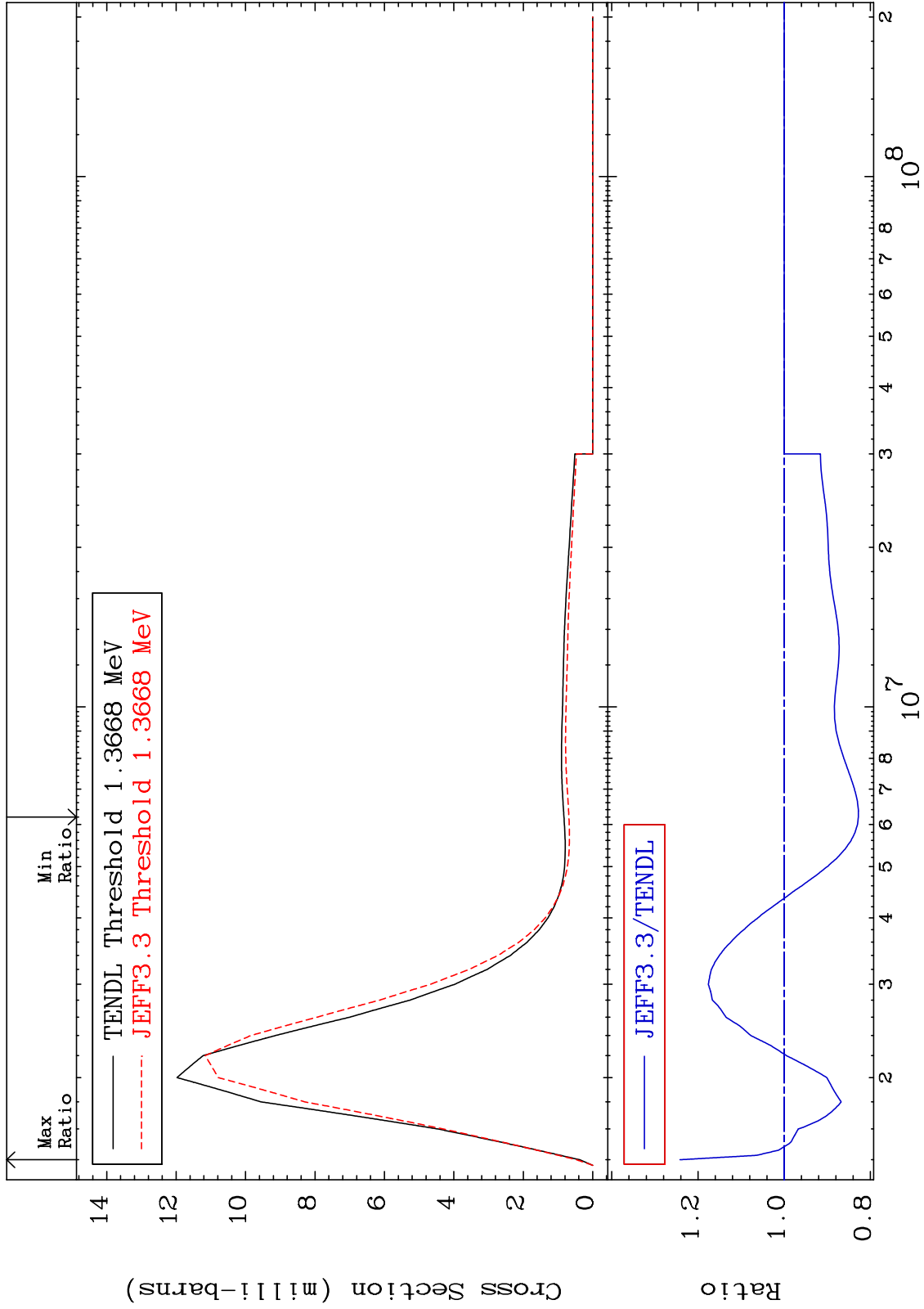
62-Sm-150  
-24.41 To 45.88 %



MAT 6243

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

62-Sm-150  
-17.21 To 24.17 %



30

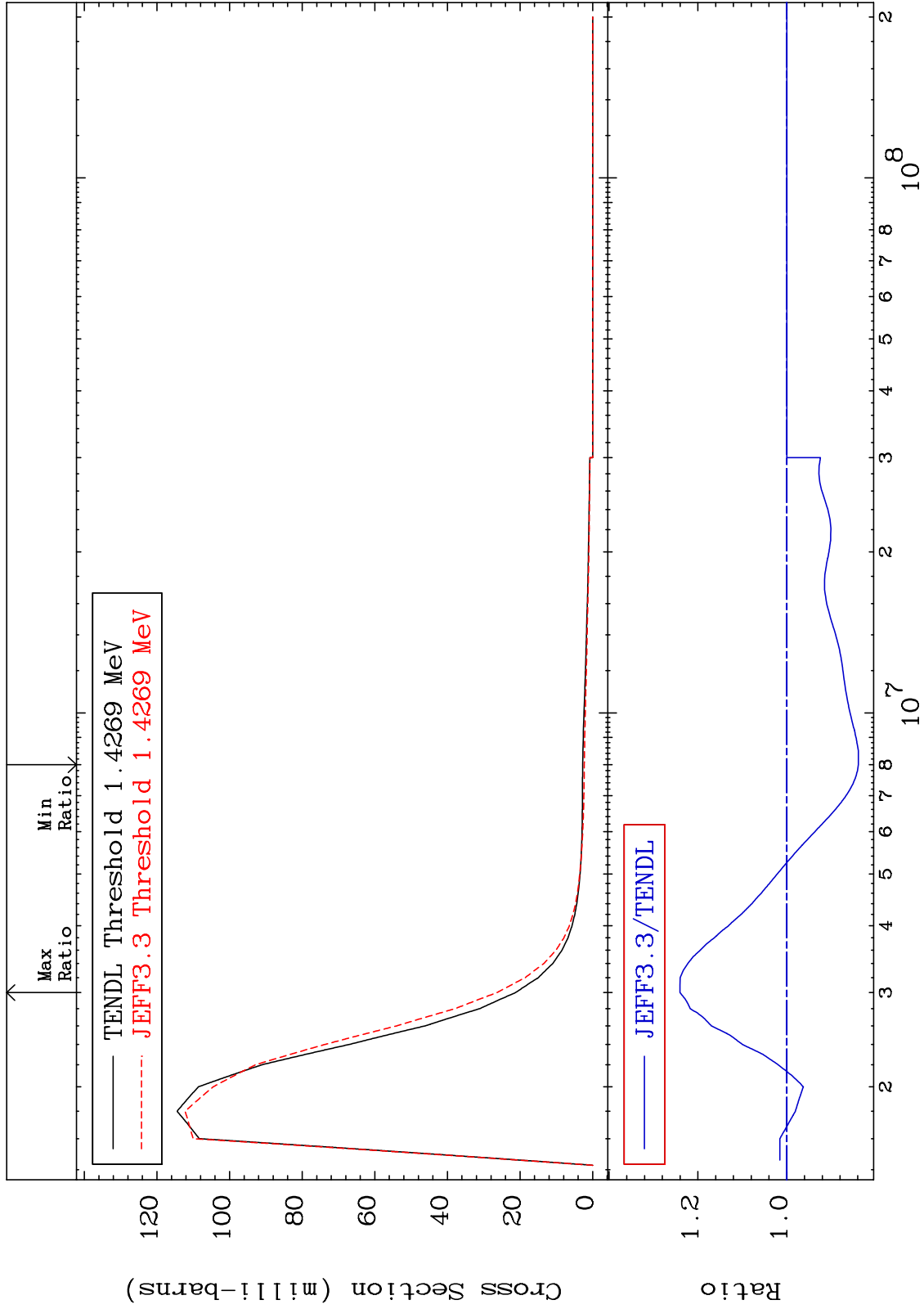
Incident Energy (eV)

62-Sm-150

MAT 6243

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

62-Sm-150  
-16.14 To 24.02 %

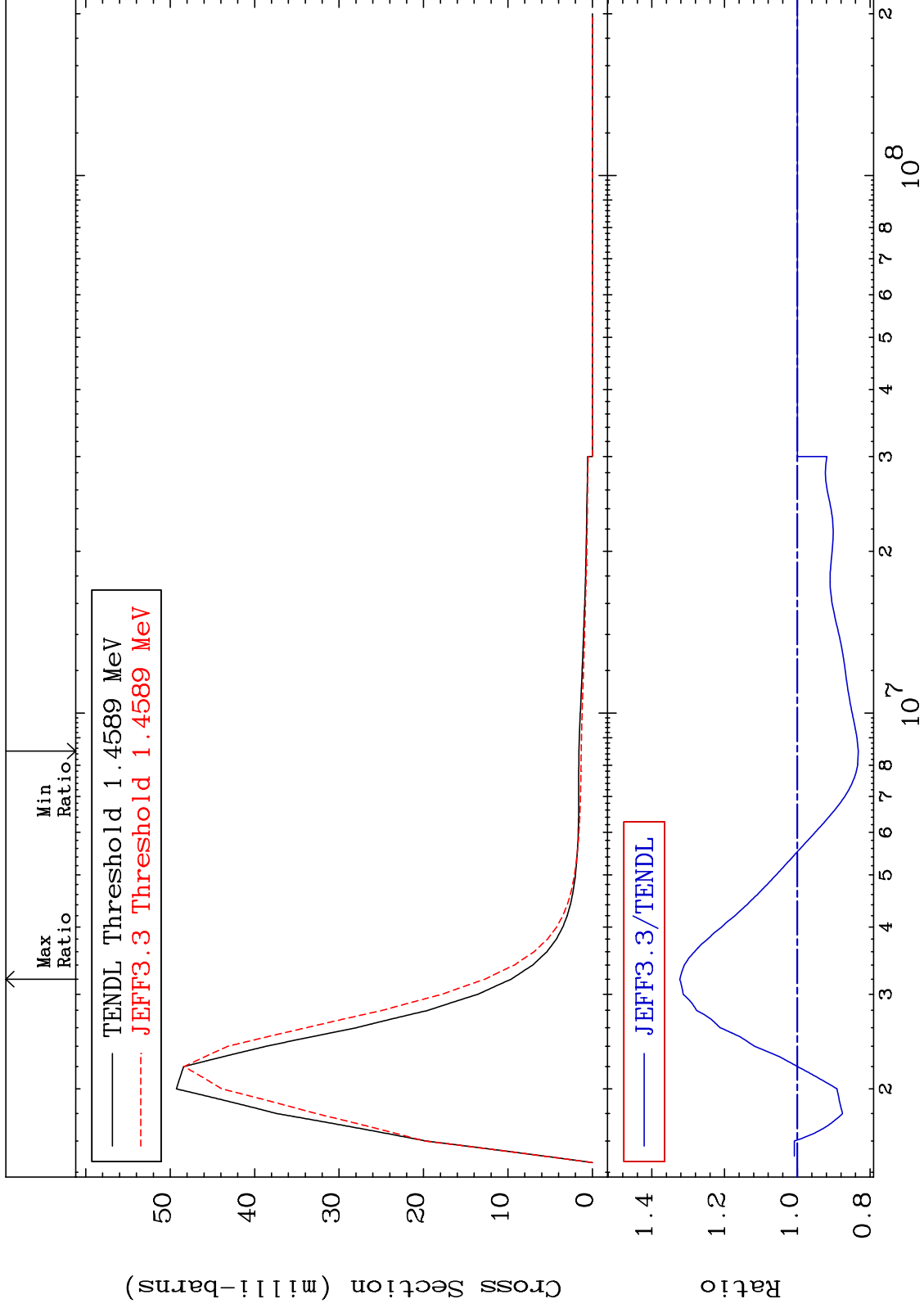




MAT 6243

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

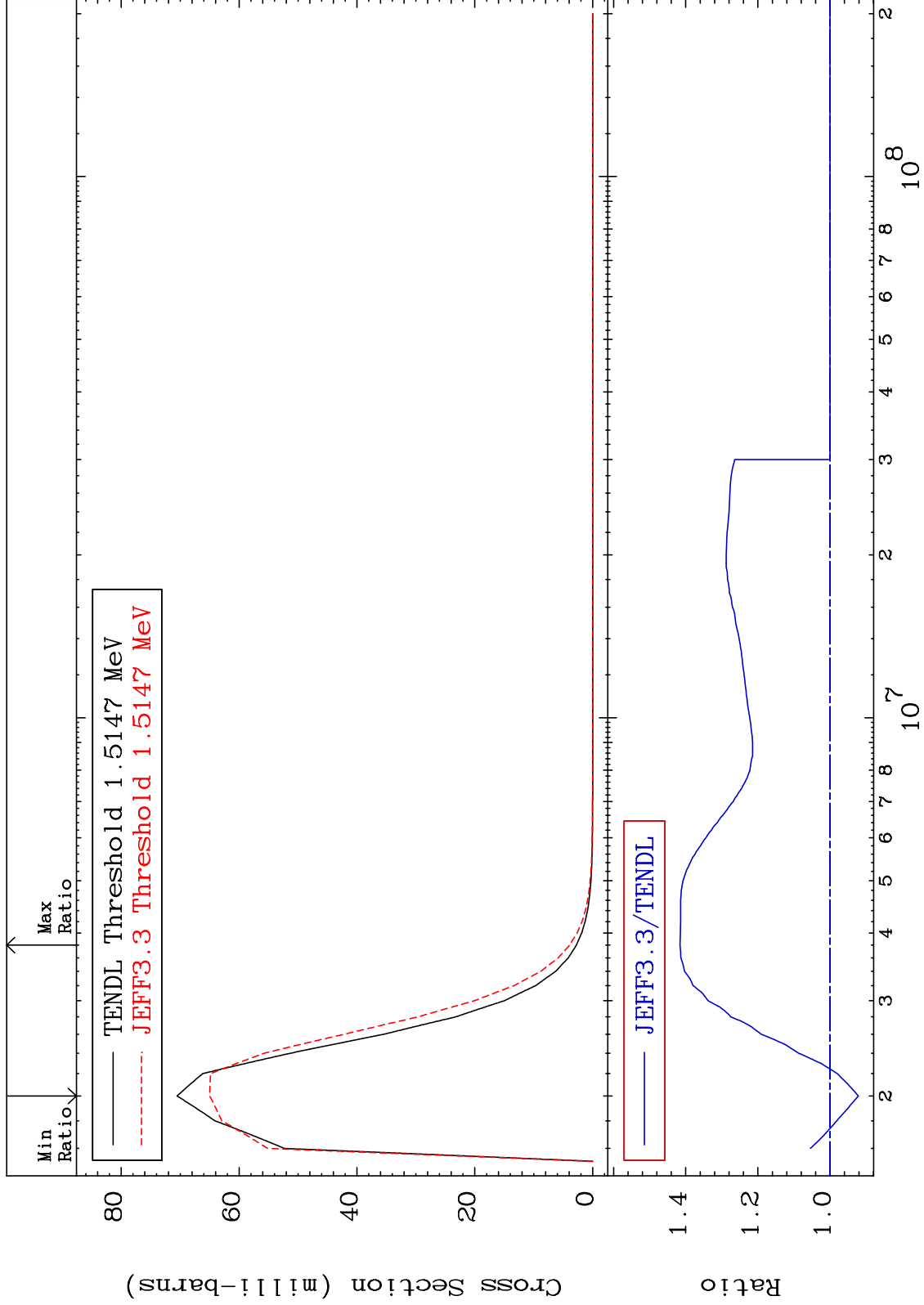
62-Sm-150  
-16.78 To 32.31 %



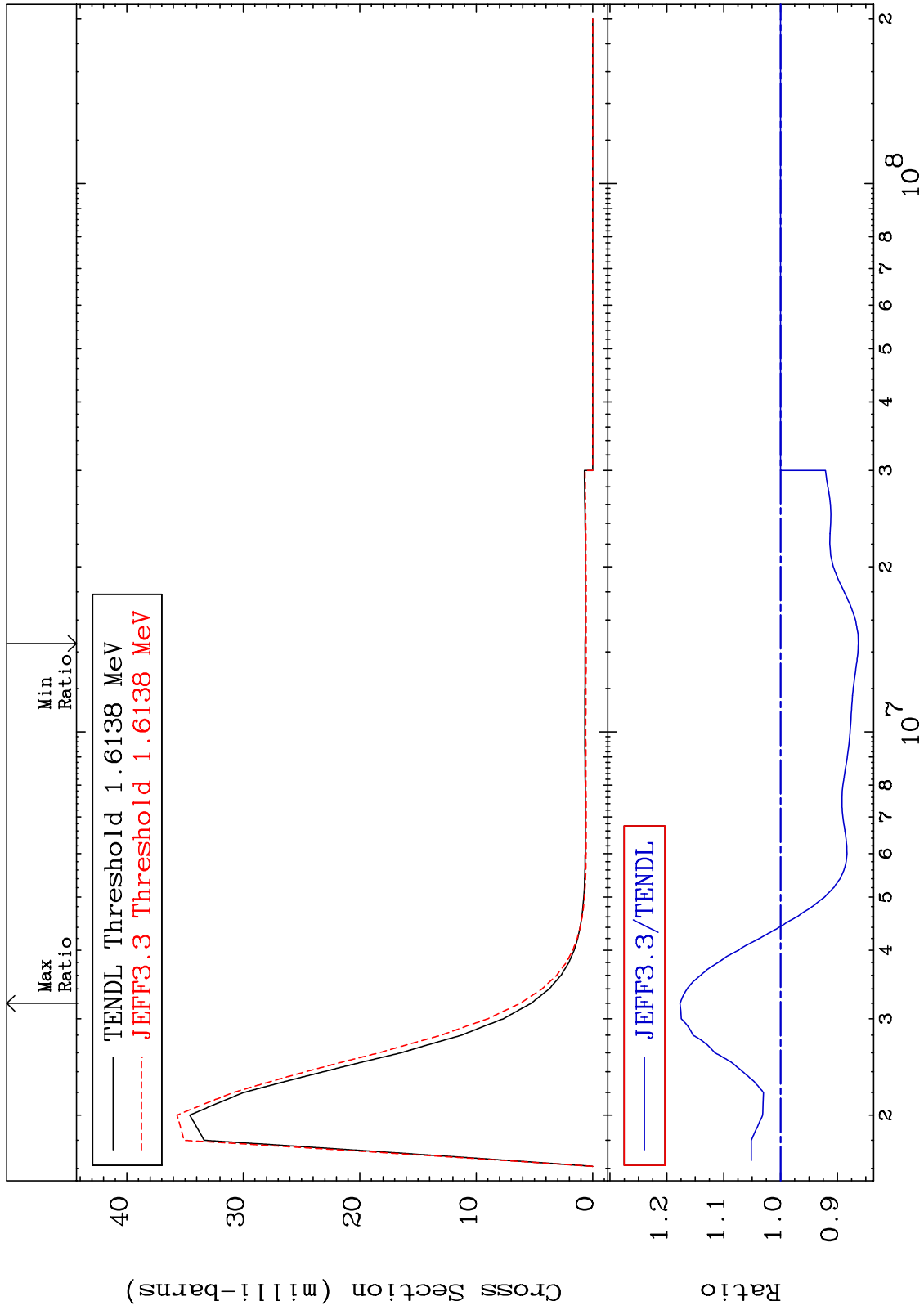
MAT 6243

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

62-Sm-150  
-7.855 To 41.58 %



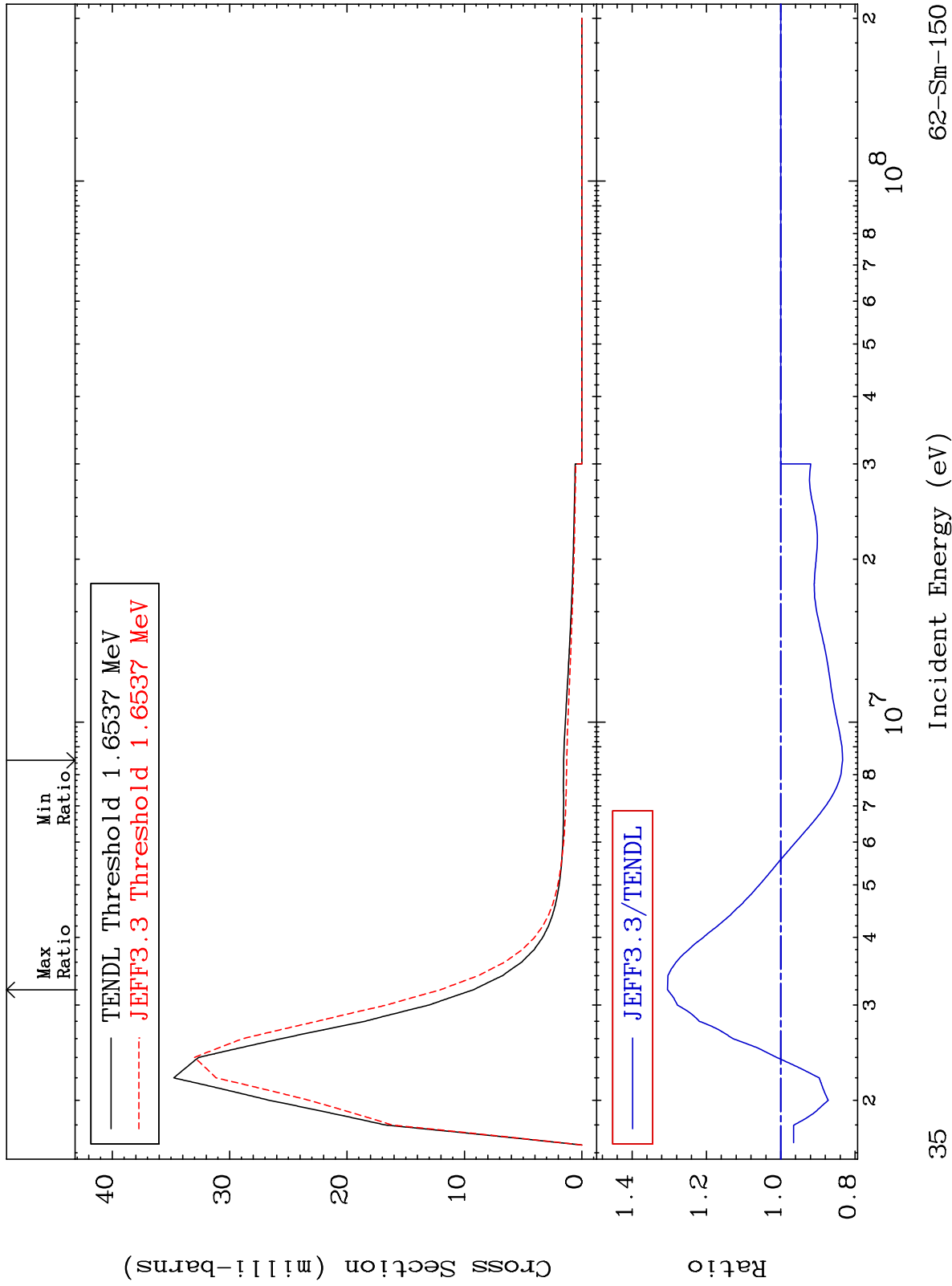
MAT 6243 MT= 64 (n, n') Level  
 Cross Section 62-Sm-150  
 -13.70 To 17.69 %



MAT 6243

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

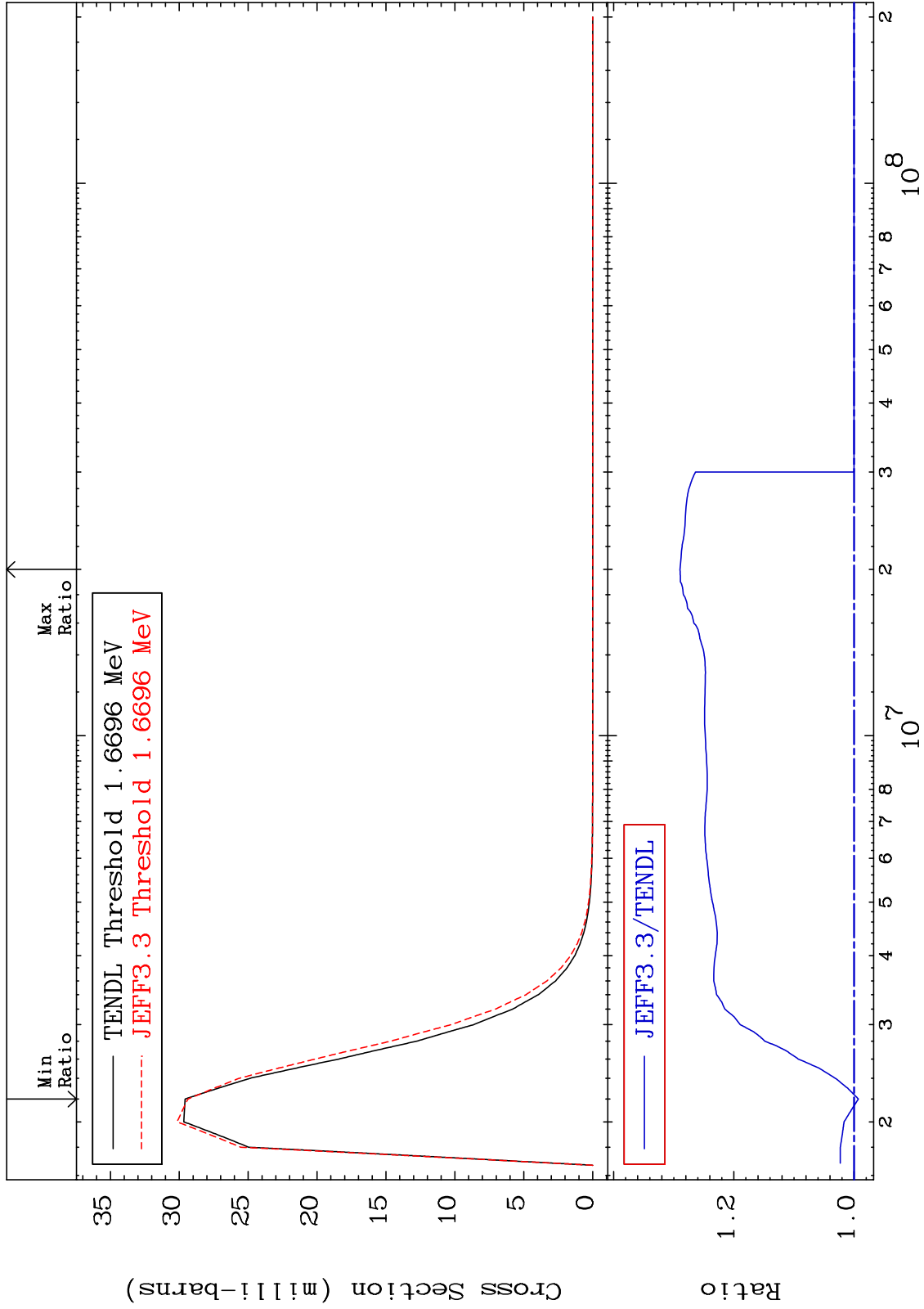
62-Sm-150  
-16.66 To 30.45 %



MAT 6243

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

62-Sm-150  
-0.718 To 28.96 %



36

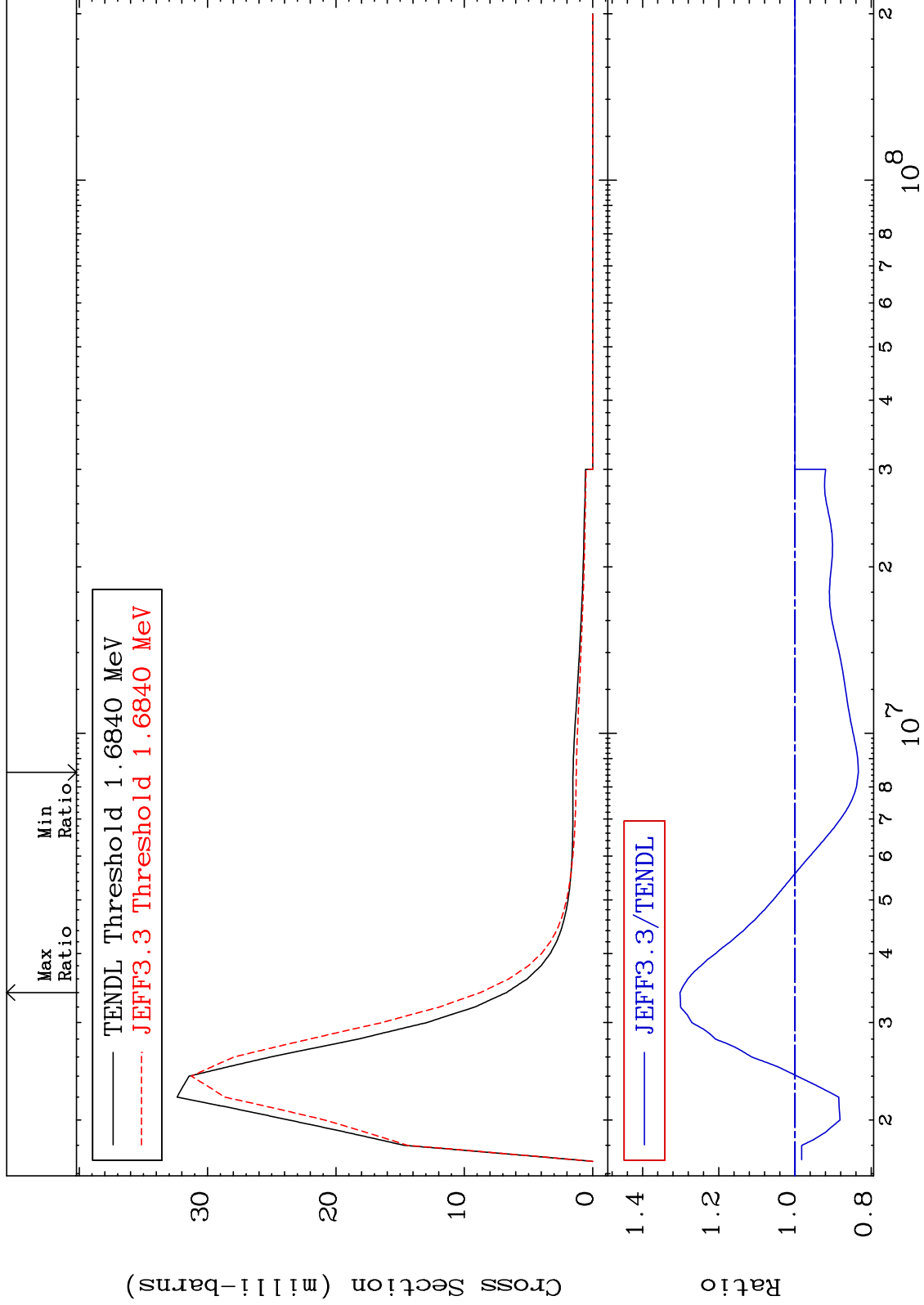
Incident Energy (eV)

62-Sm-150

MAT 6243

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

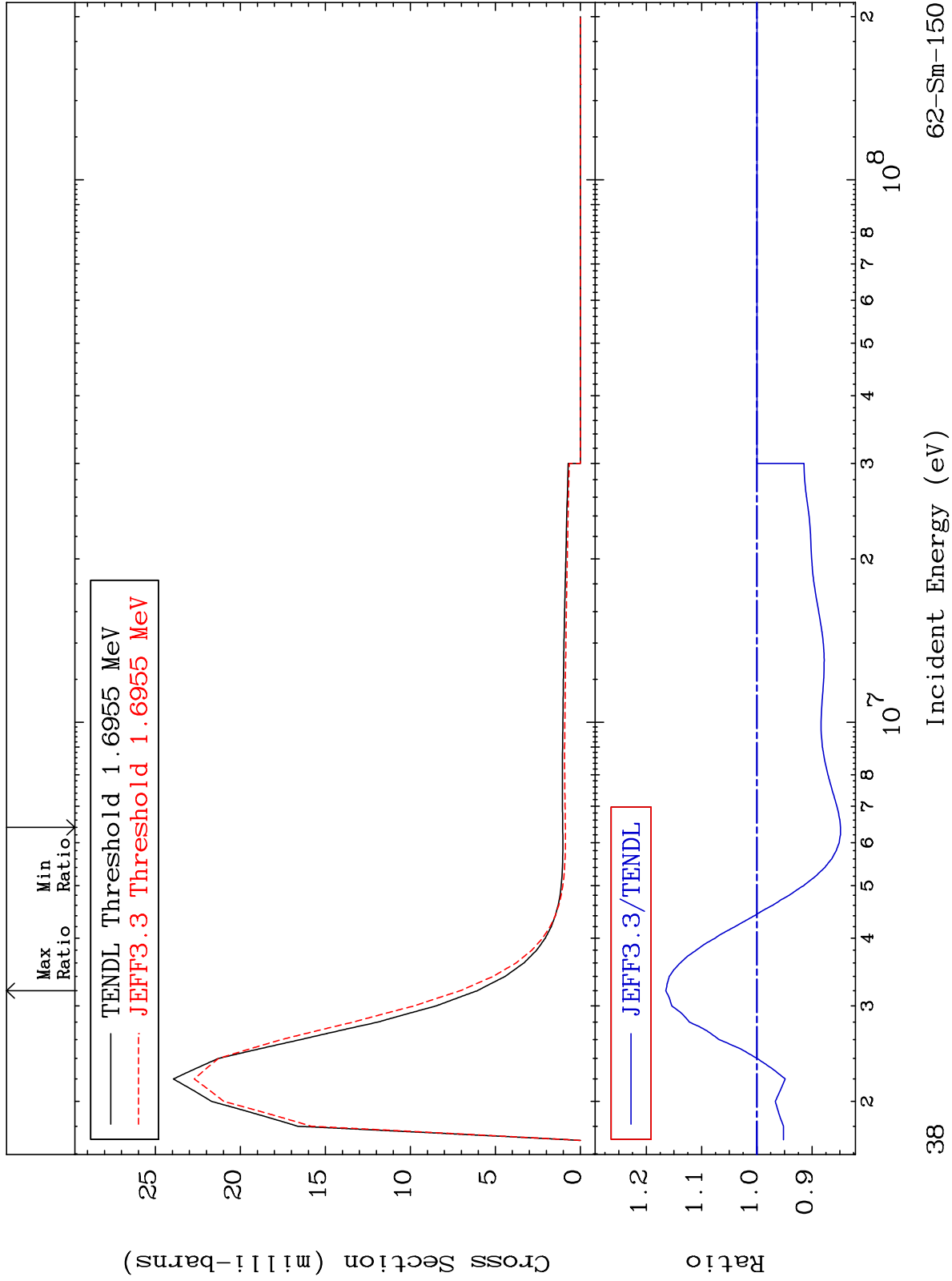
62-Sm-150  
-16.64 To 30.17 %



MAT 6243

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

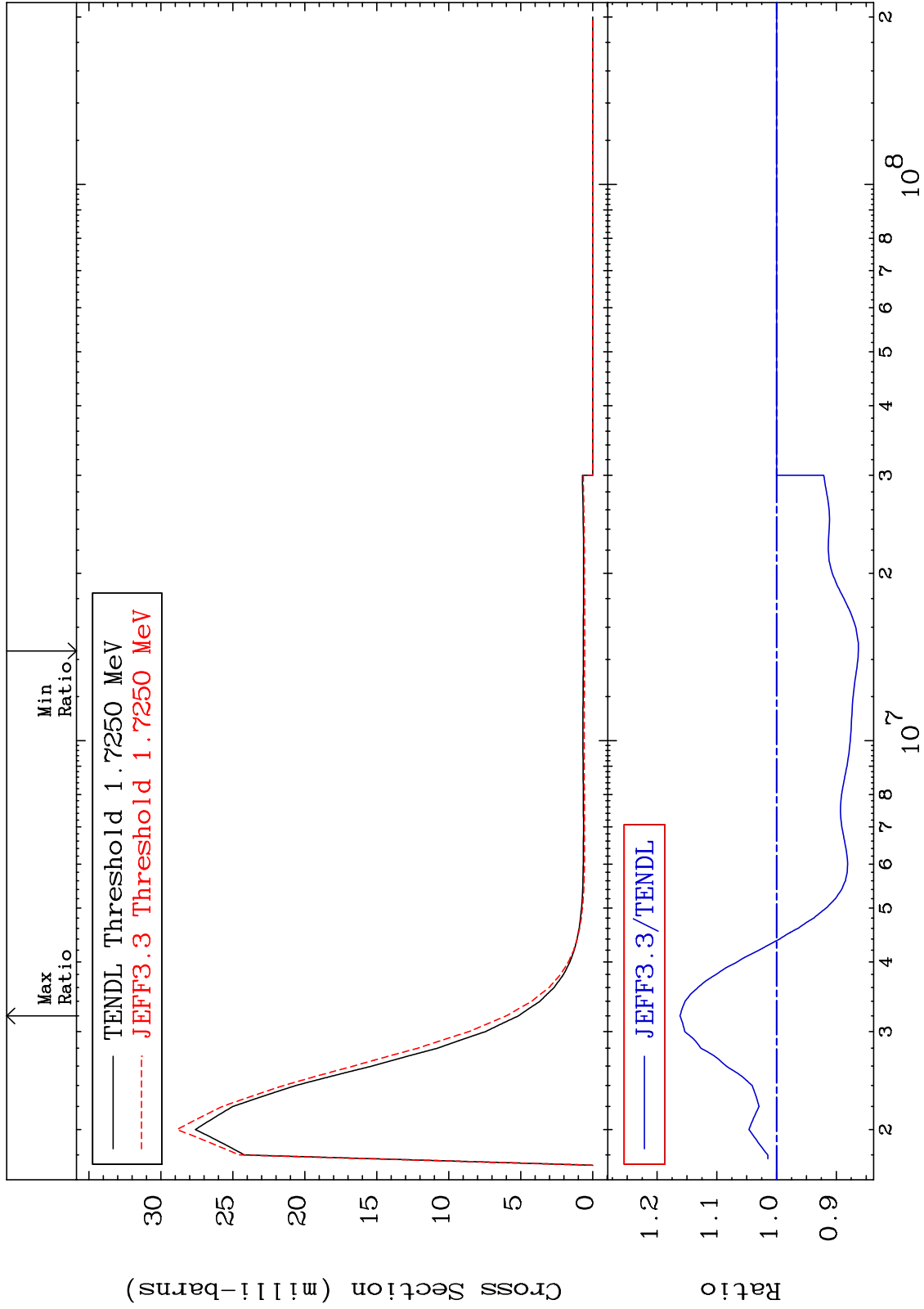
62-Sm-150  
-15.14 To 16.47 %



MAT 6243

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

62-Sm-150  
-13.70 To 16.17 %

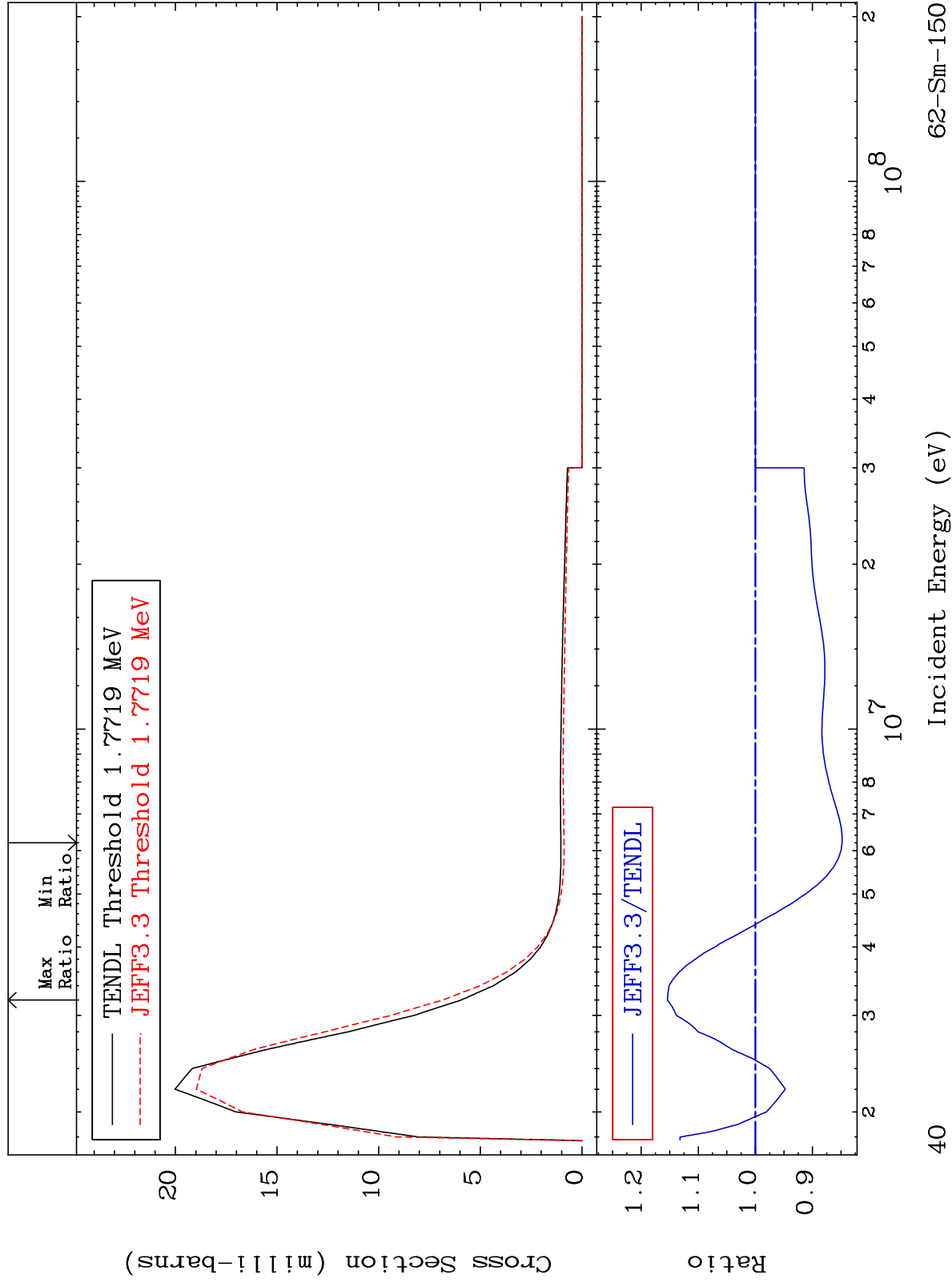




MAT 6243

MT= 70 (n,n') Level  
Cross Section

62-Sm-150  
-15.19 To 15.39 %



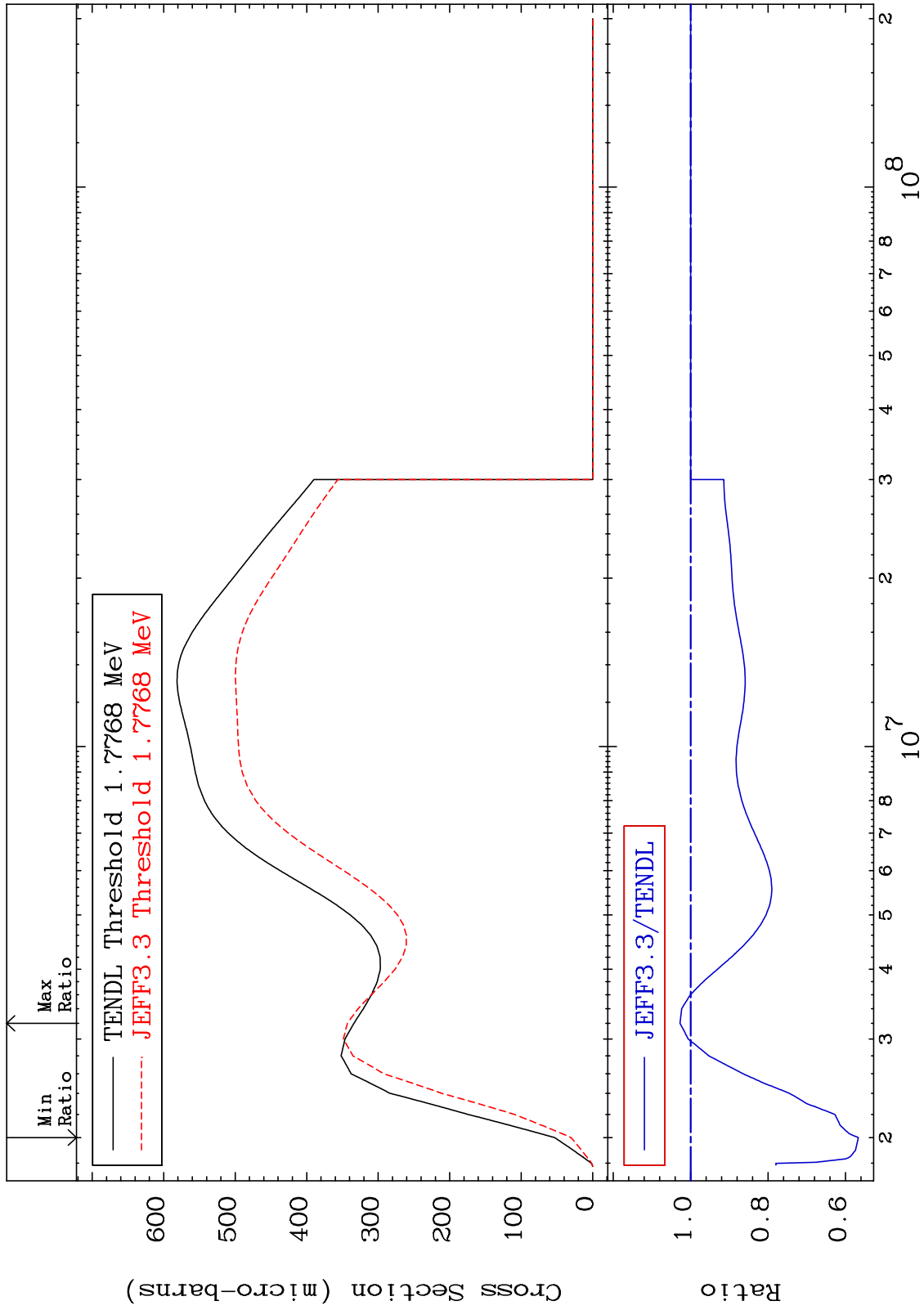
40

62-Sm-150

MAT 6243

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

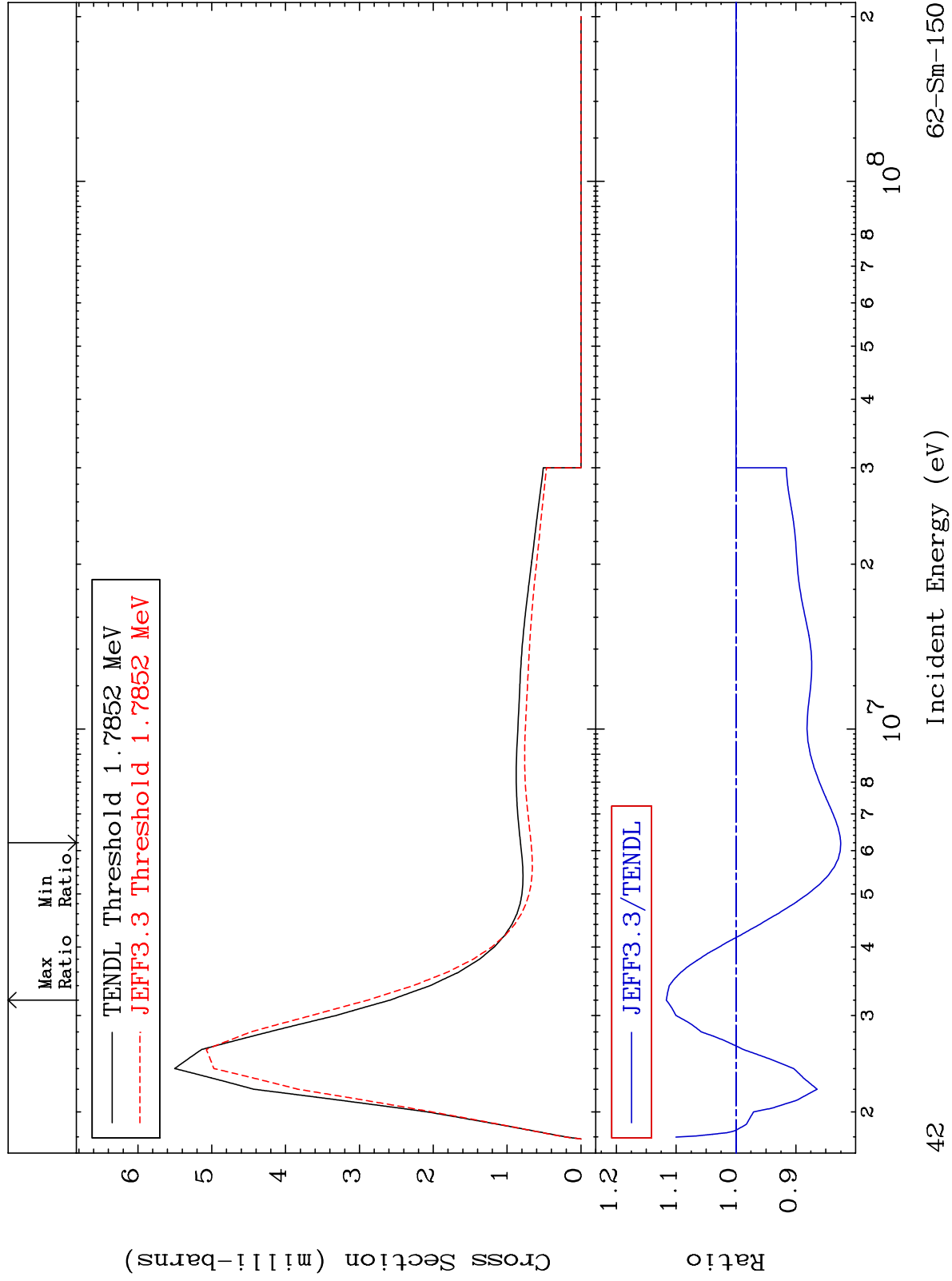
62-Sm-150  
-43.32 To 2.737 %



MAT 6243

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

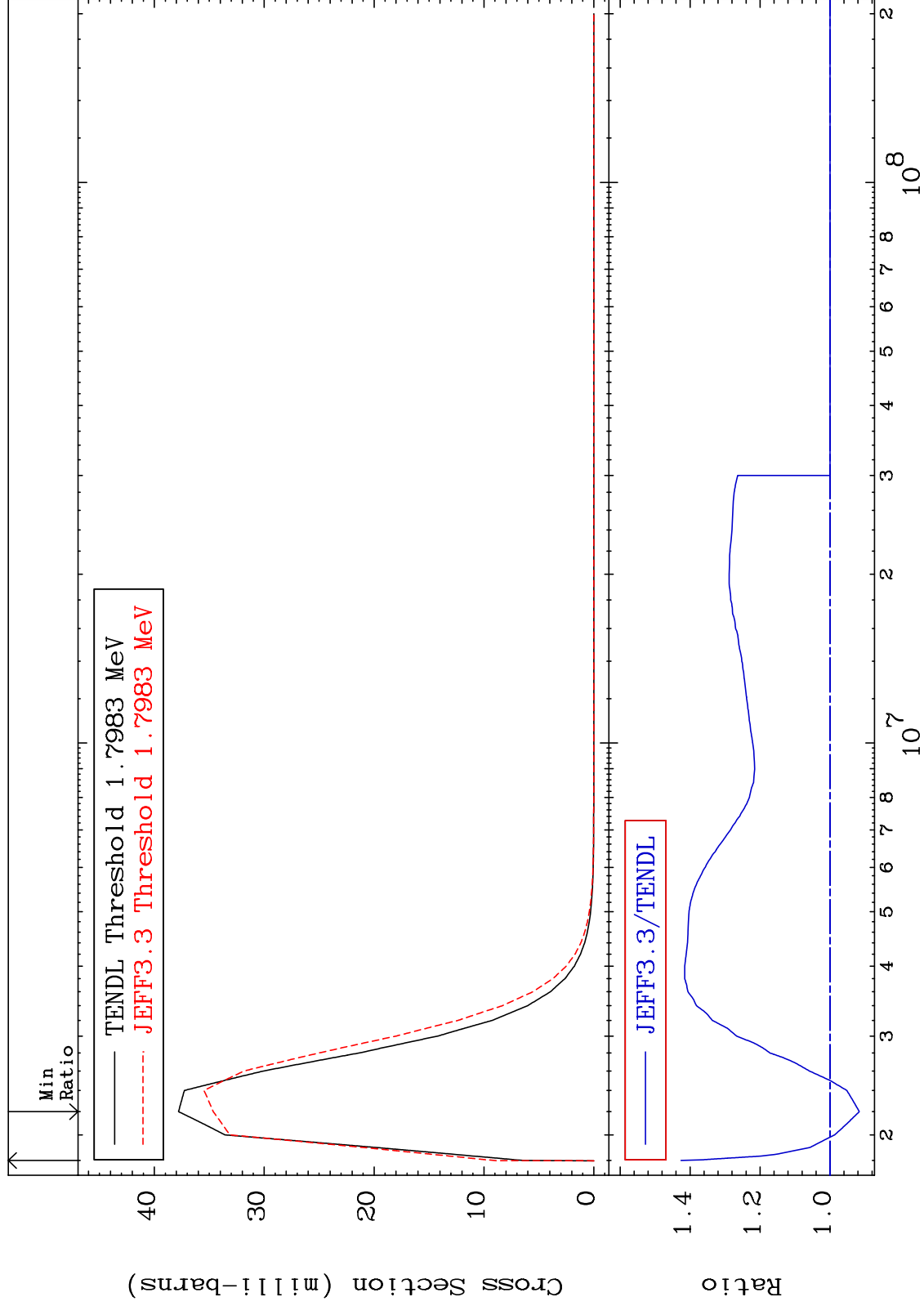
62-Sm-150  
-17.48 To 11.64 %



MAT 6243

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

62-Sm-150  
-8.359 To 42.58 %



43

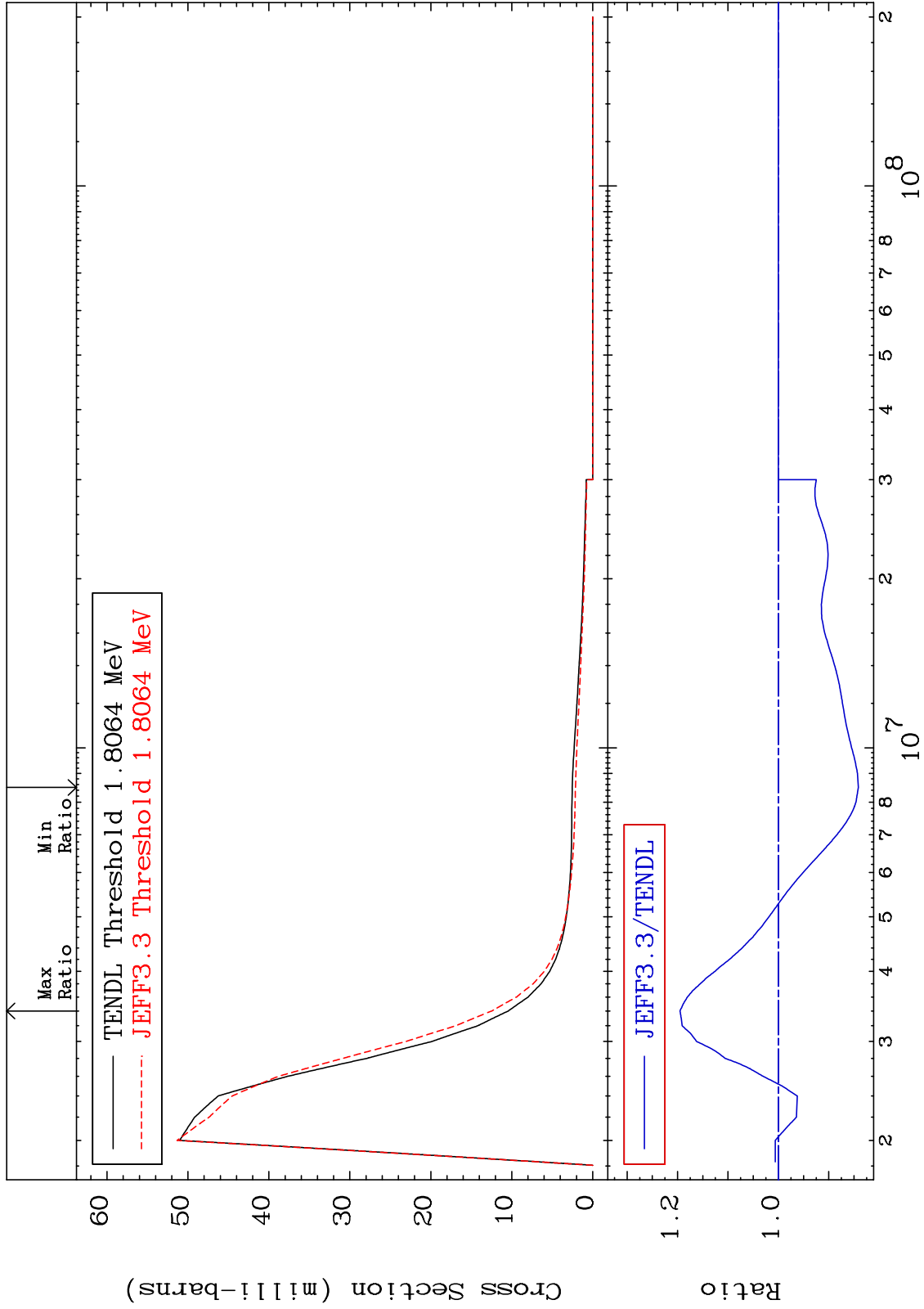
Incident Energy (eV)

62-Sm-150

MAT 6243

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

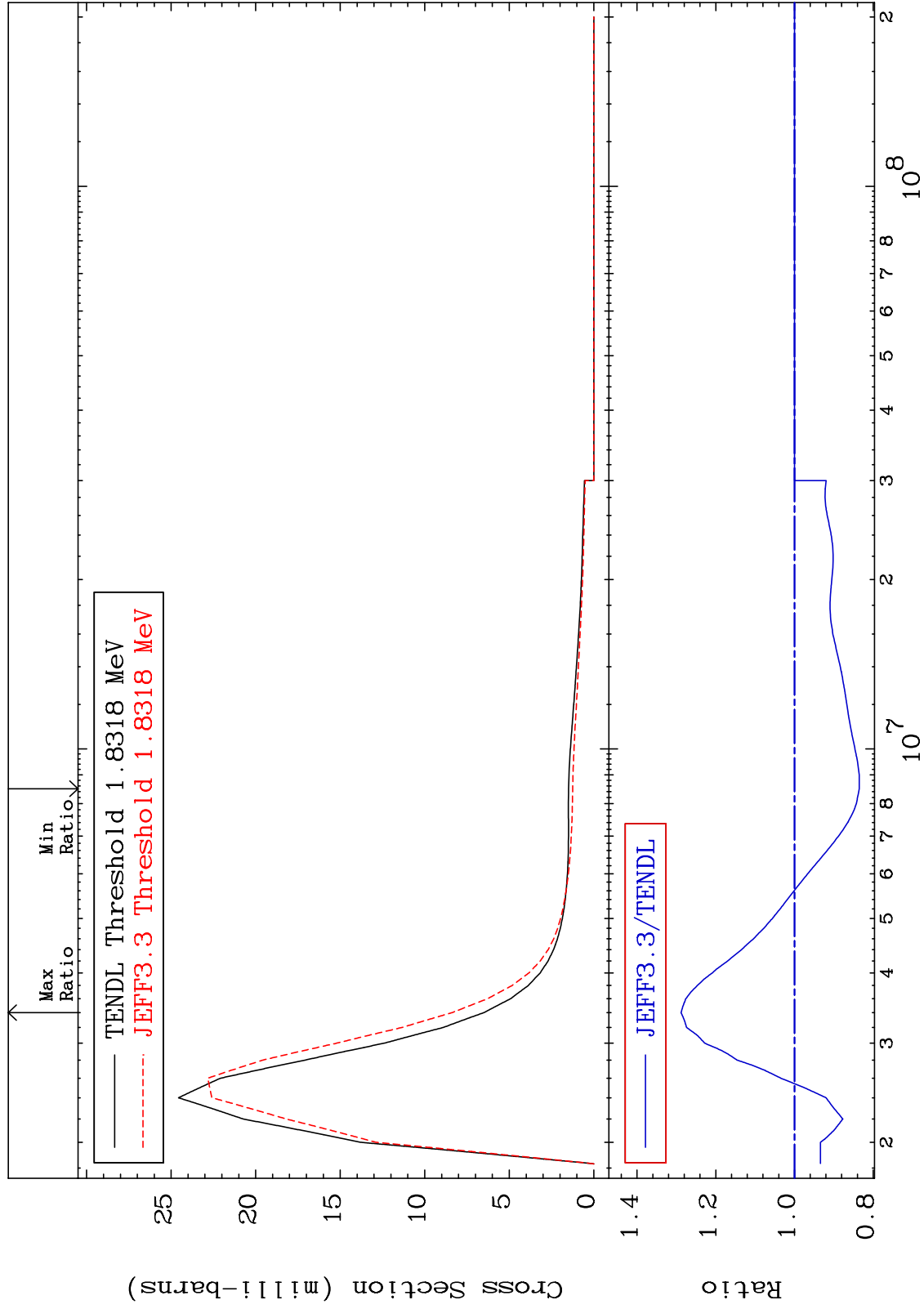
62-Sm-150  
-15.88 To 19.51 %



MAT 6243

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

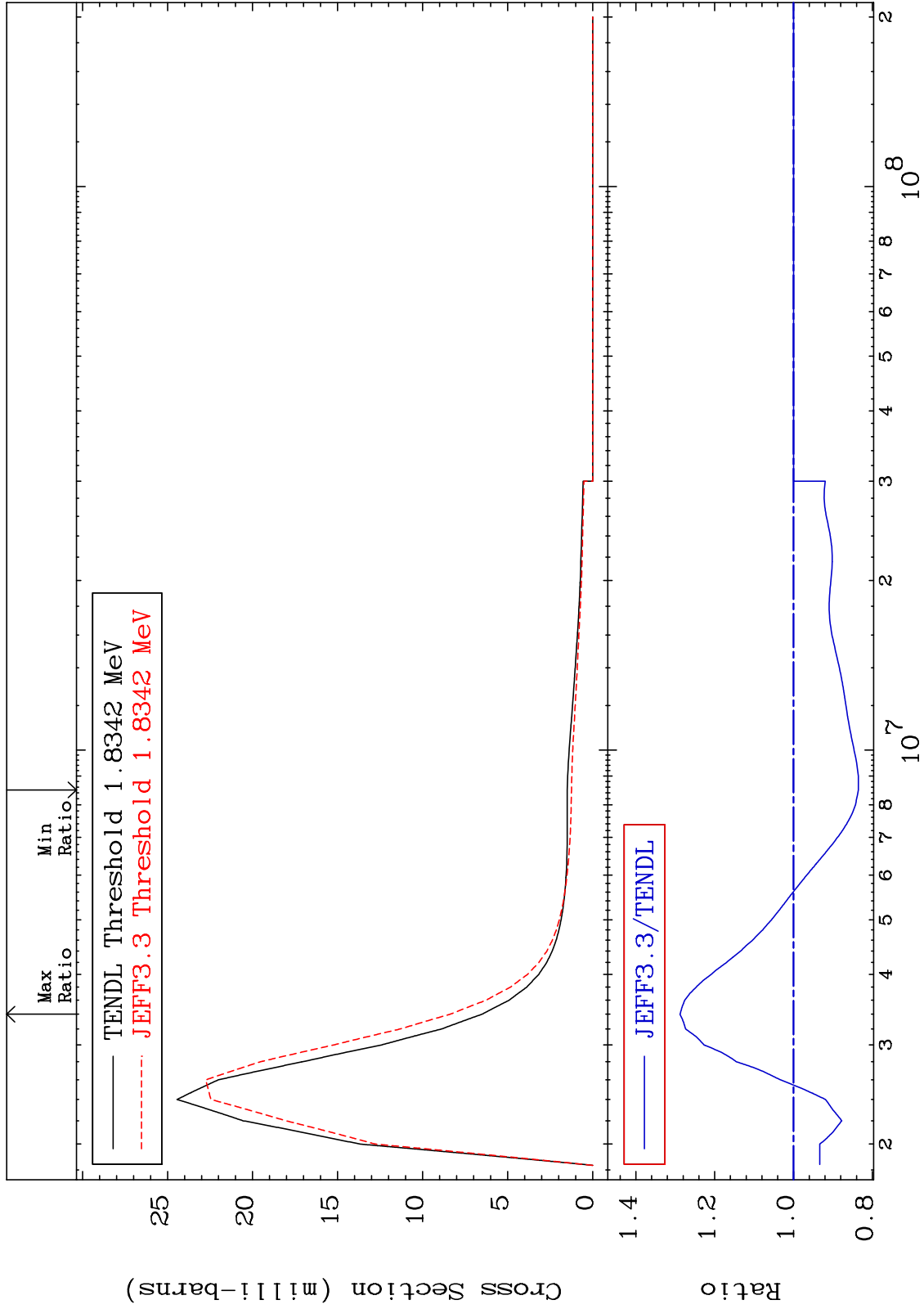
62-Sm-150  
-16.48 To 28.82 %



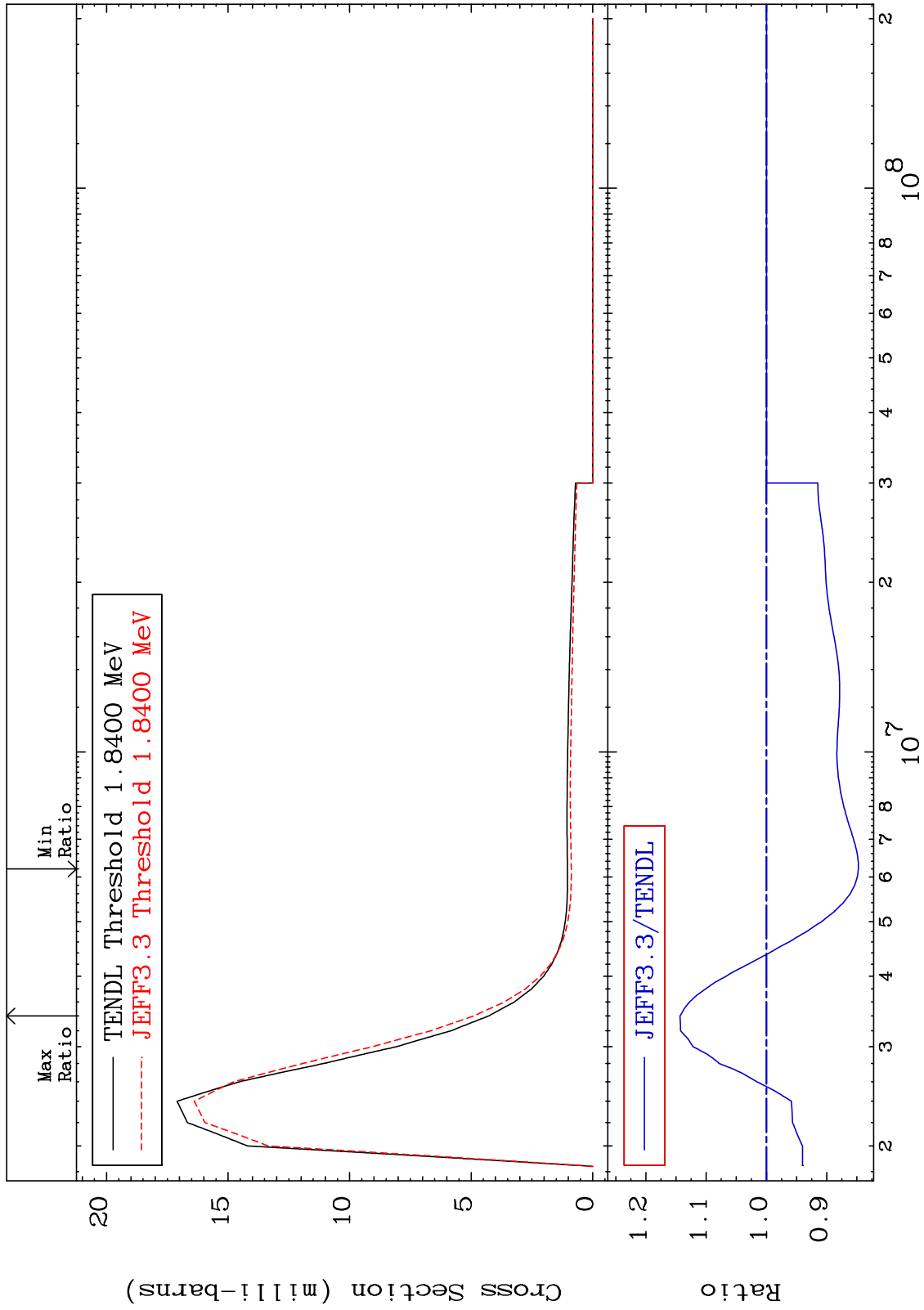
MAT 6243

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

62-Sm-150  
-16.47 To 28.79 %



MAT 6243 MT= 77 (n, n') Level  
 Cross Section 62-Sm-150  
 -15.26 To 14.34 %



62-Sm-150

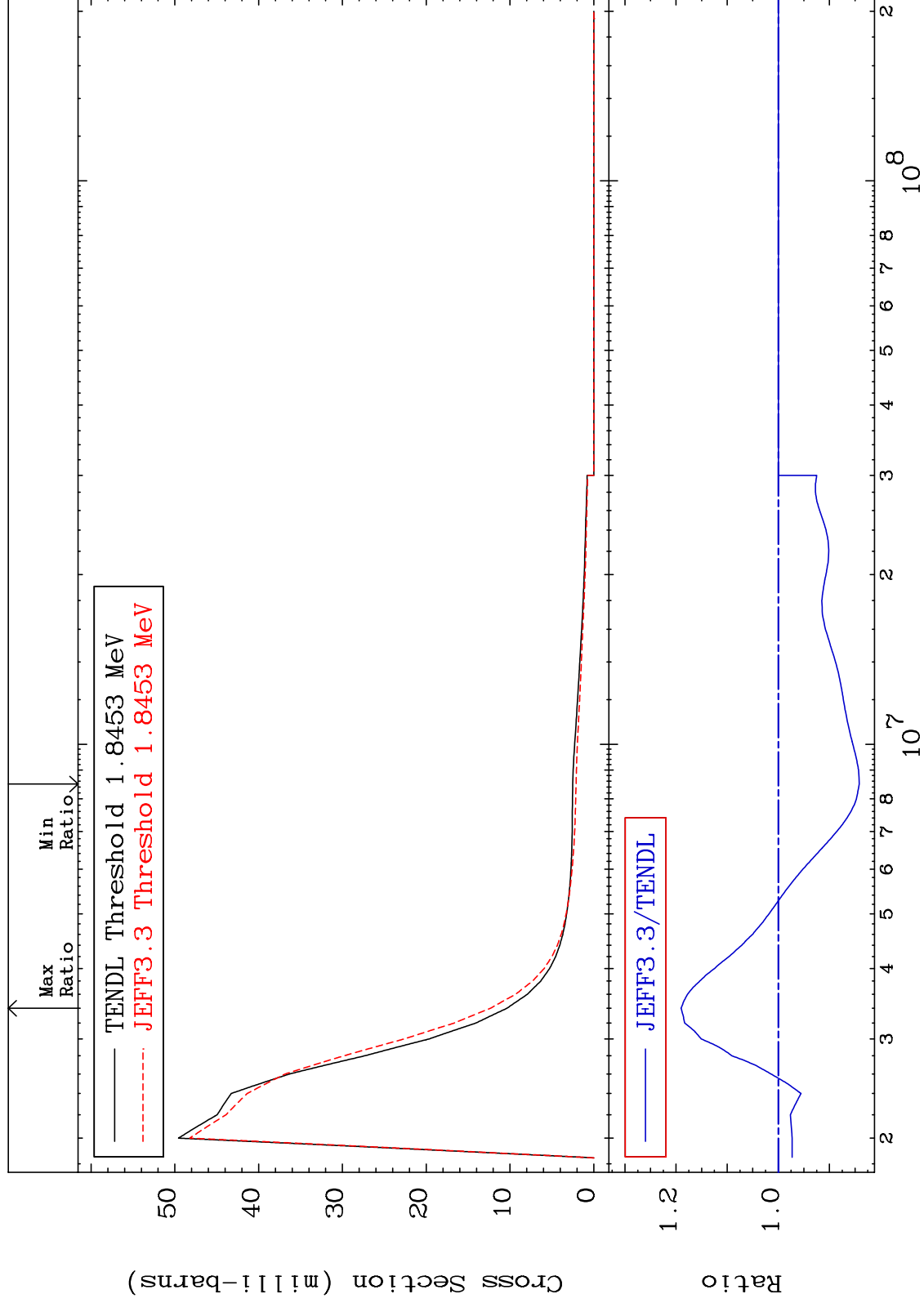
47



MAT 6243

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

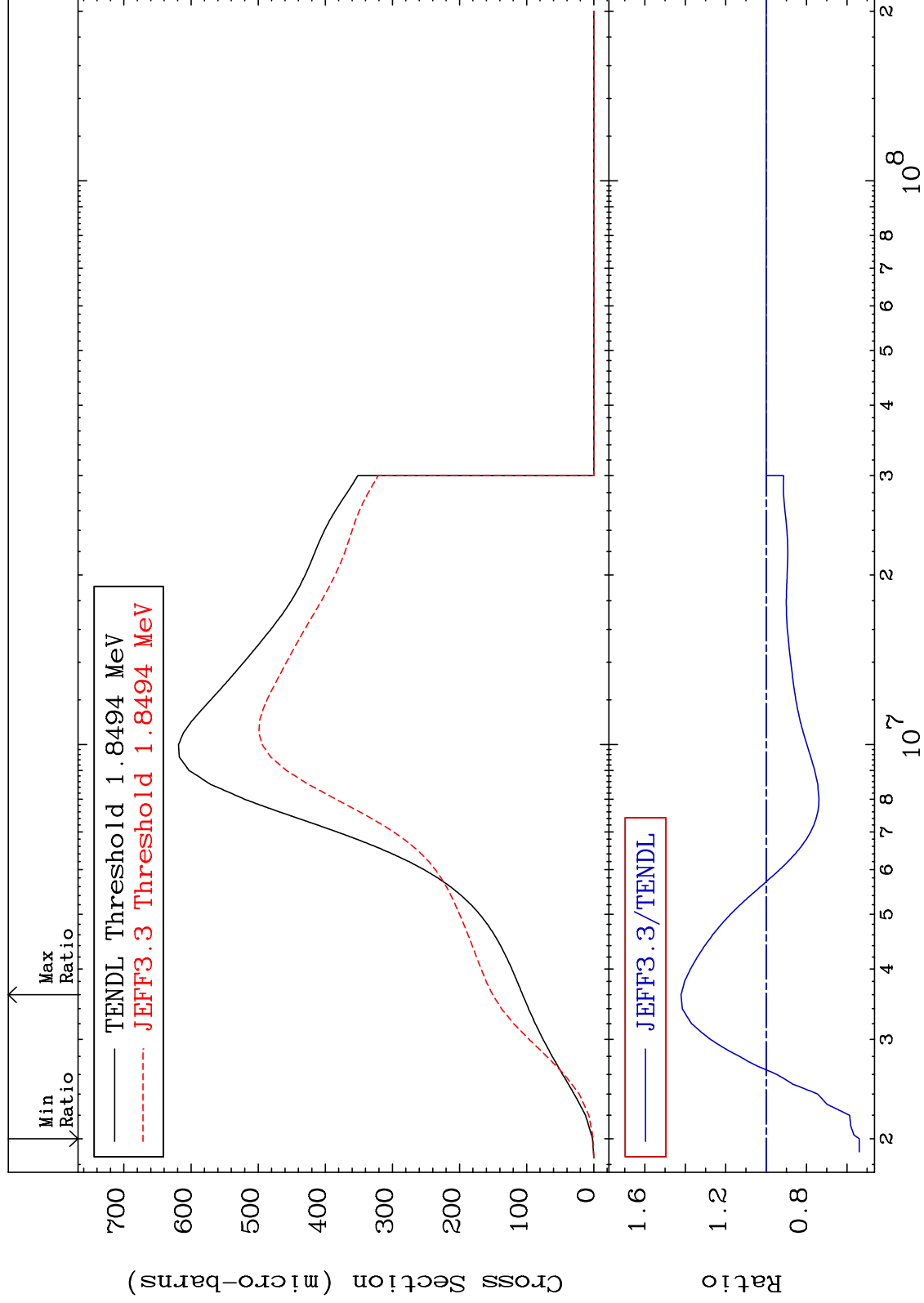
62-Sm-150  
-15.83 To 19.03 %



MAT 6243

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

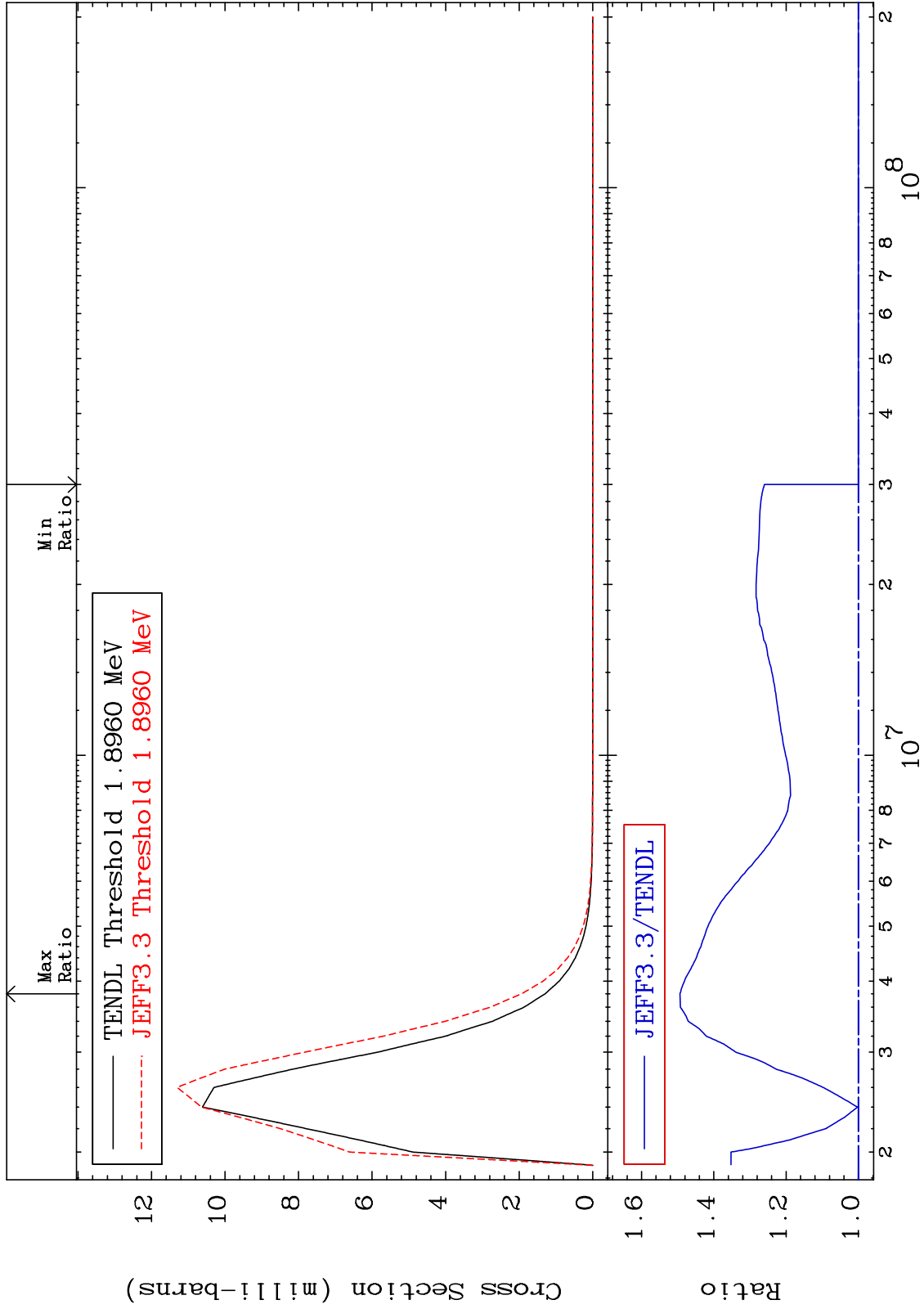
62-Sm-150  
-46.09 To 42.11 %



MAT 6243

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

62-Sm-150  
0.000 To 49.35 %



50

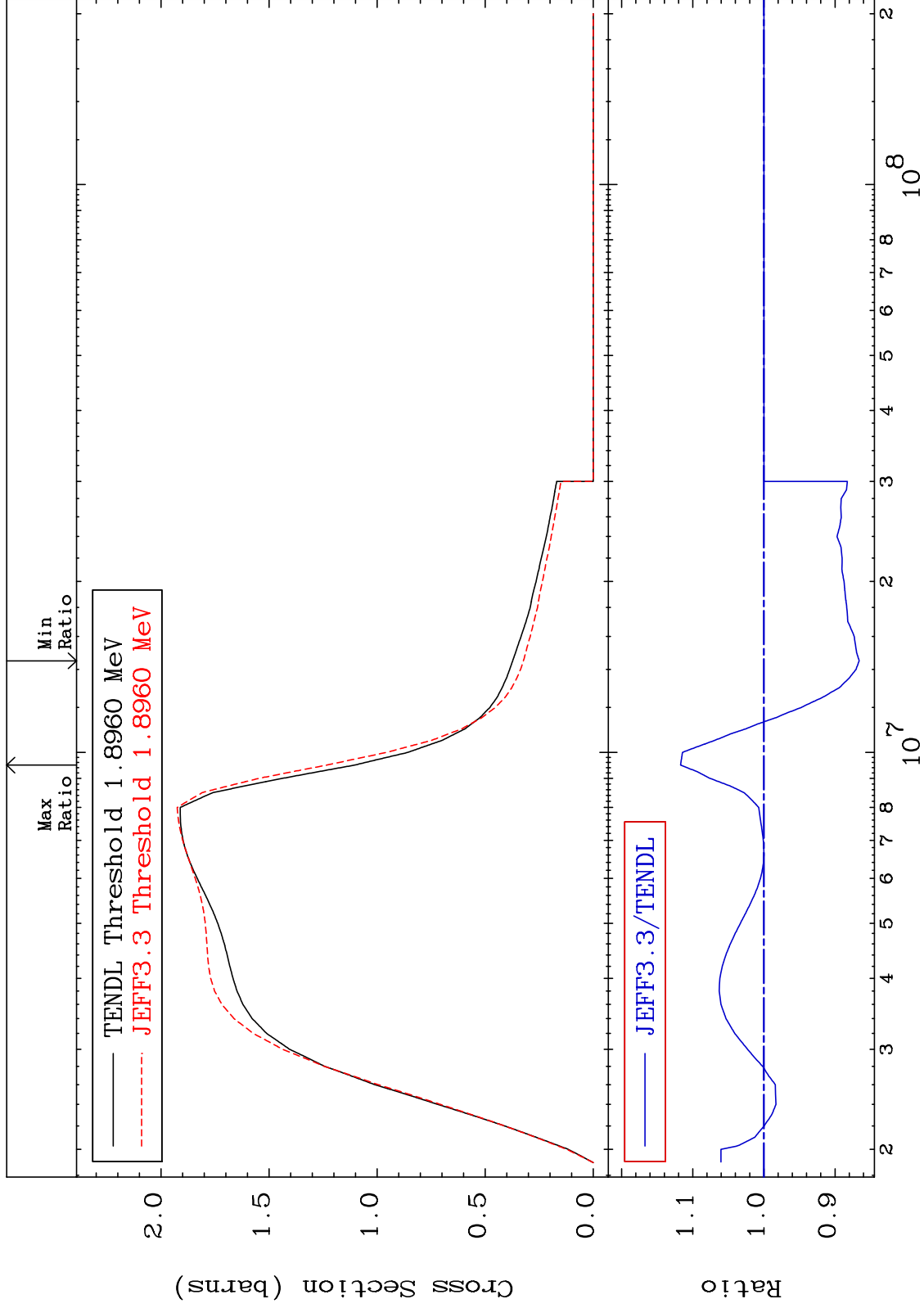
Incident Energy (eV)

62-Sm-150

MAT 6243

(n, n') Continuum  
Cross Section

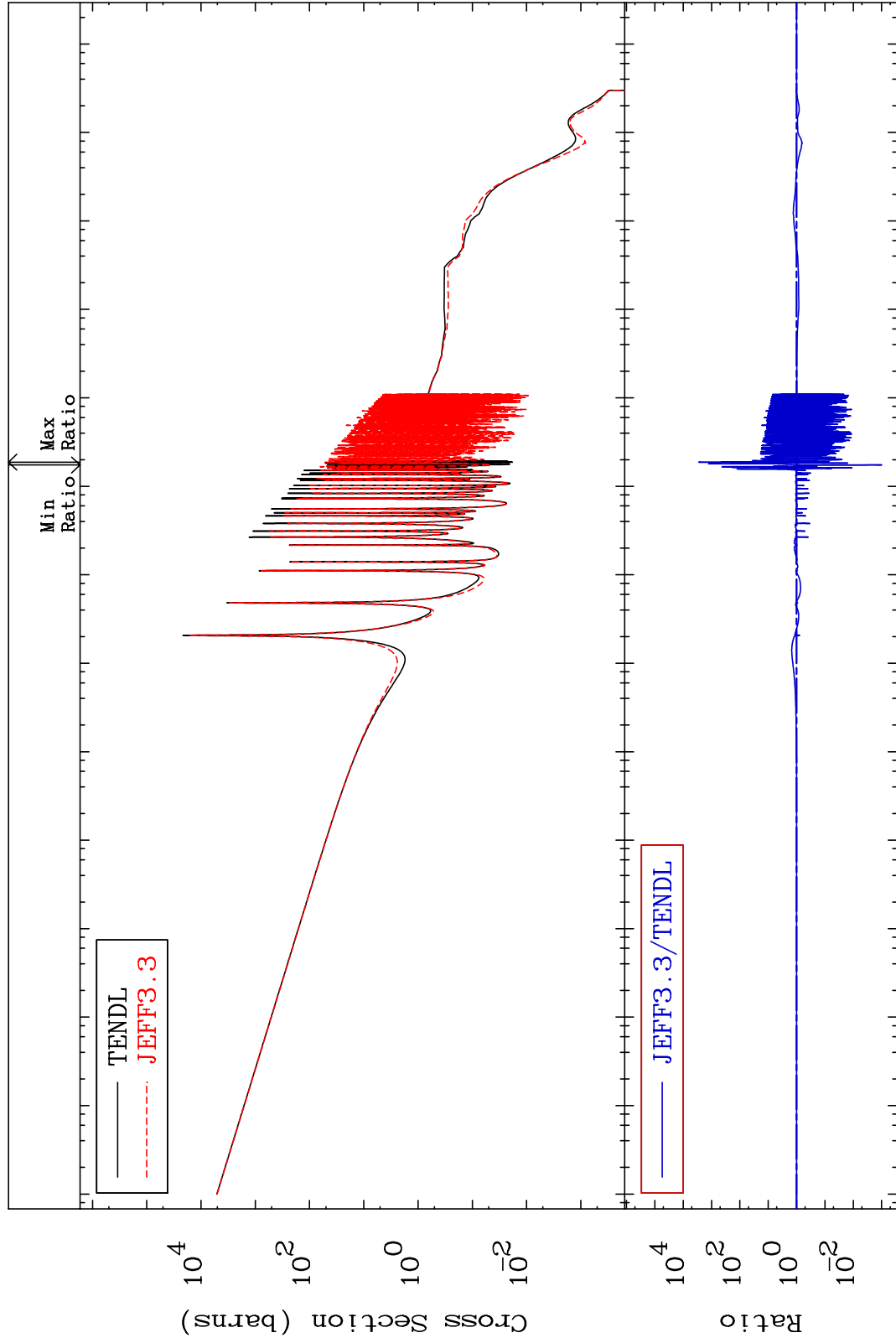
62-Sm-150  
-13.39 To 11.71 %



MAT 6243

(n,  $\gamma$ )  
Cross Section

62-Sm-150  
-99.90 To 9999. %



52

Incident Energy (eV)

62-Sm-150

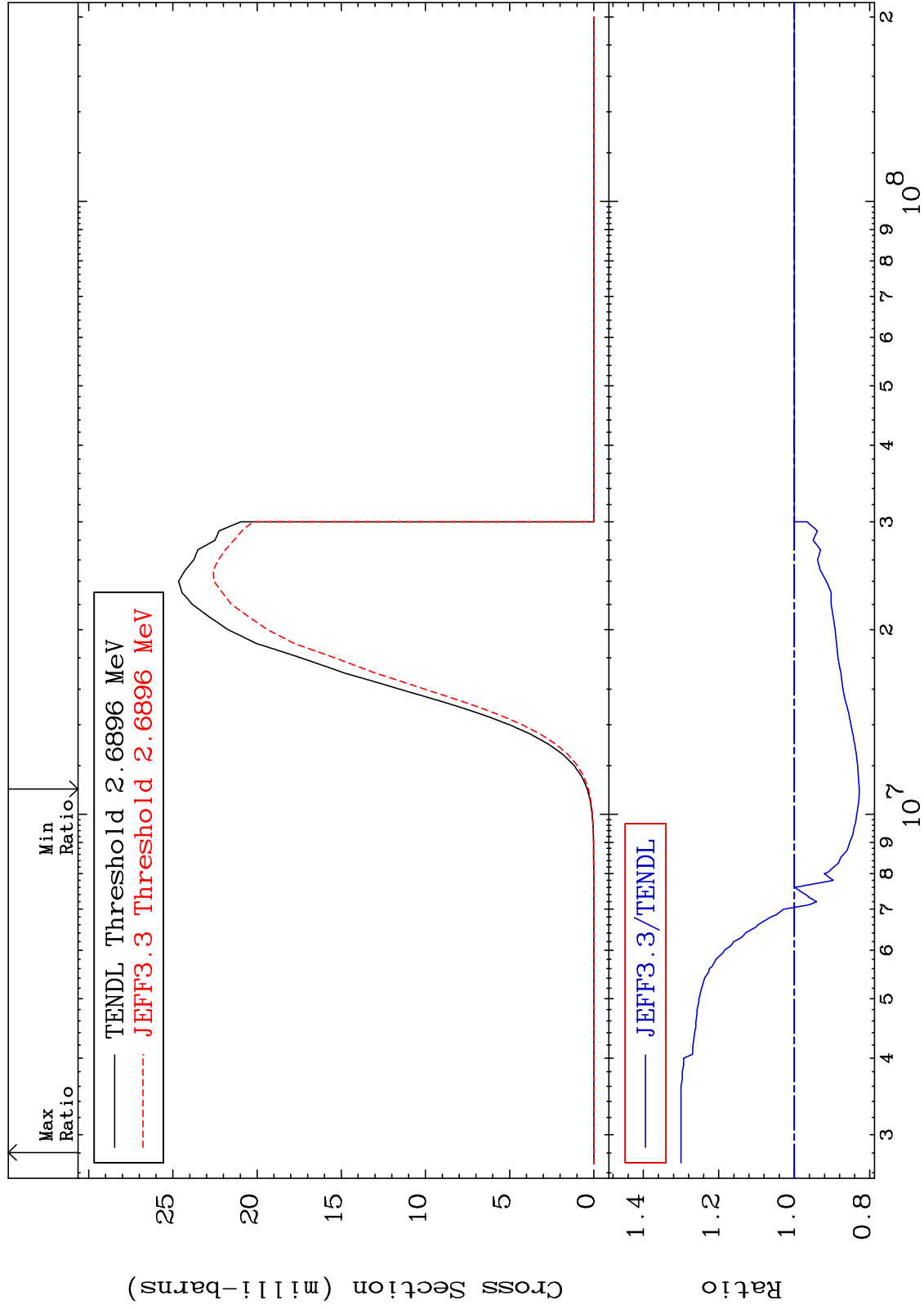
MAT 6243

(n, p)

62-Sm-150

Cross Section

-17.21 To 29.99 %



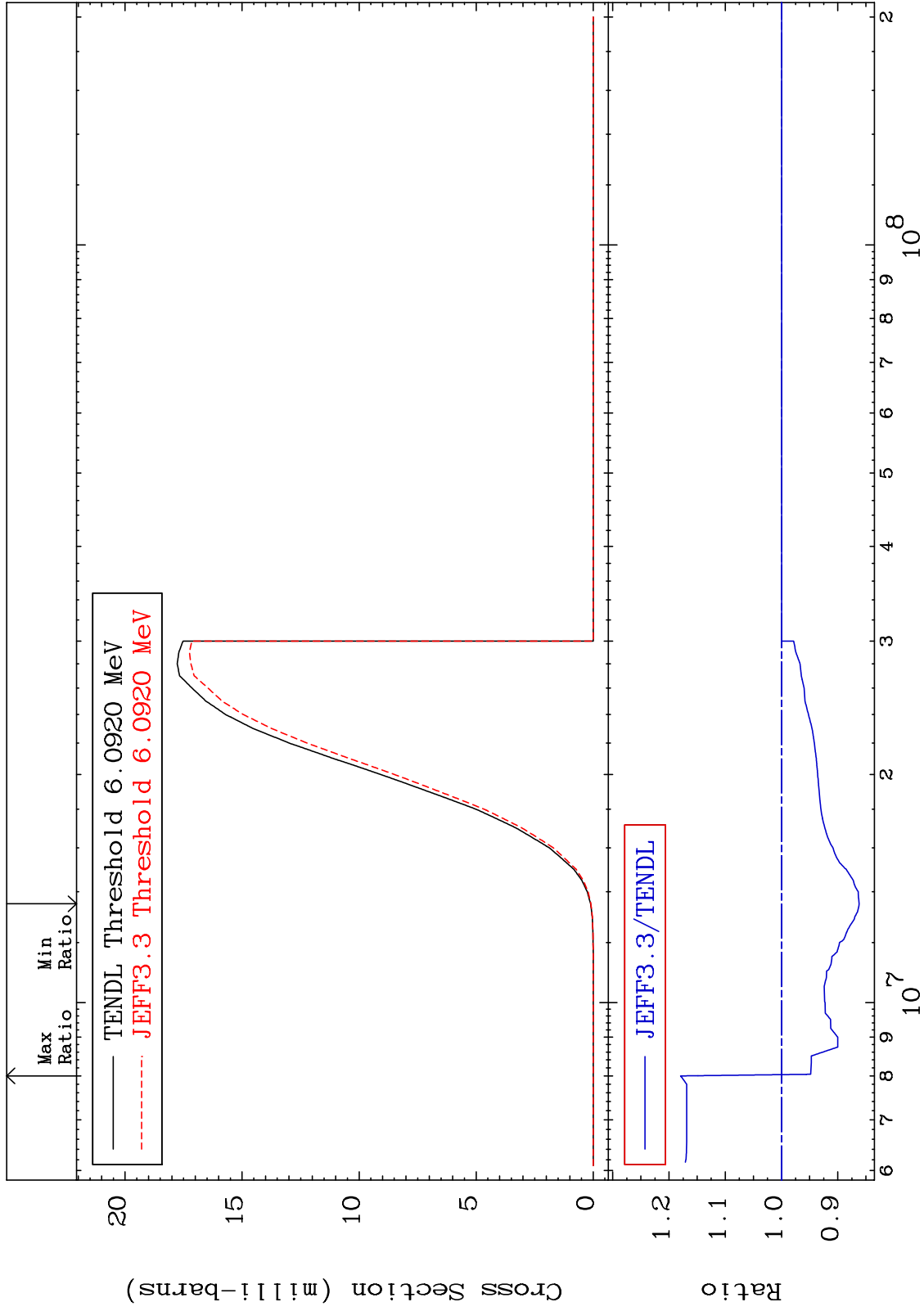
MAT 6243

(n, d)

62-Sm-150

Cross Section

-13.80 To 17.93 %



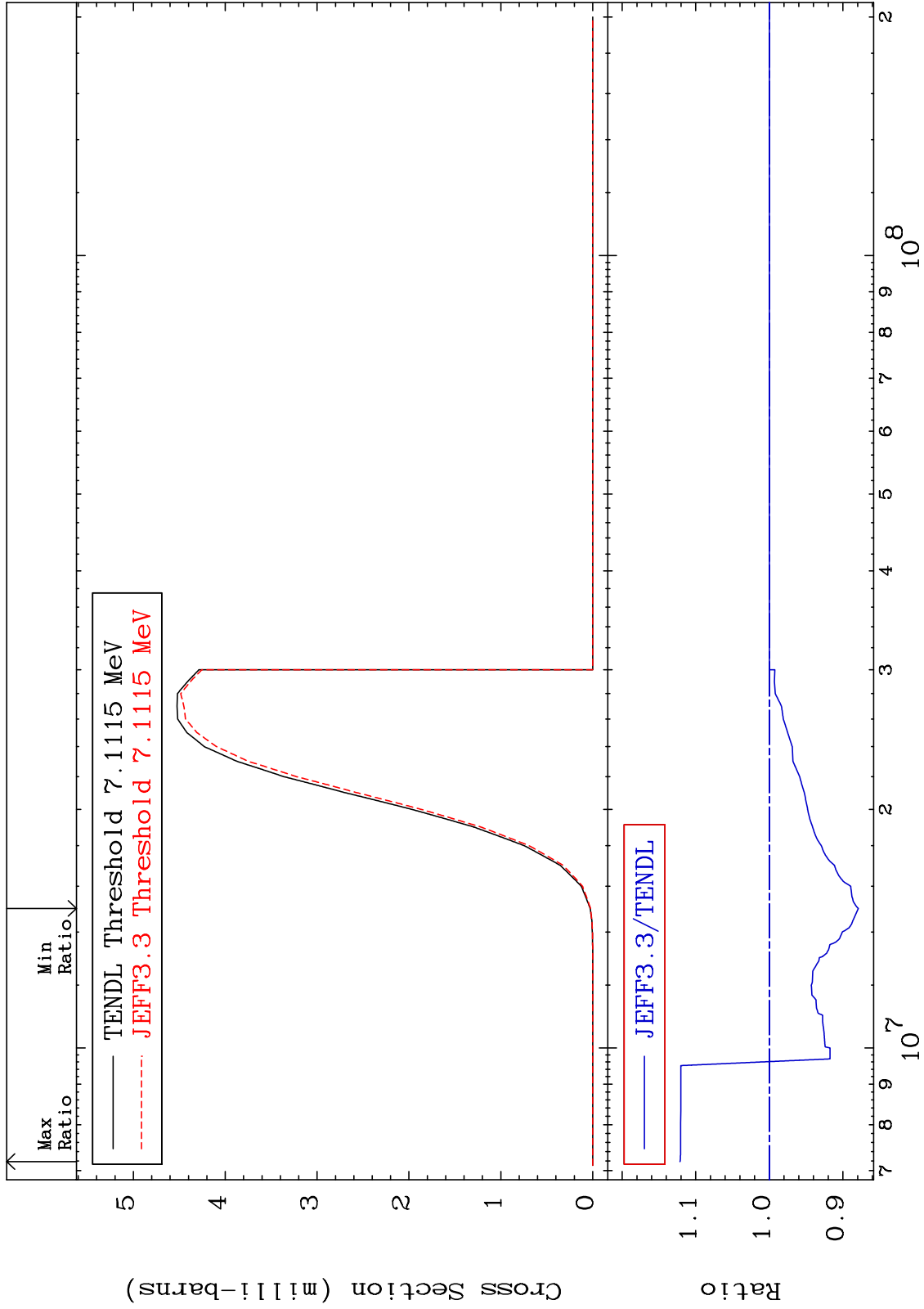
MAT 6243

(n, t)

62-Sm-150

Cross Section

-12.10 To 12.14 %





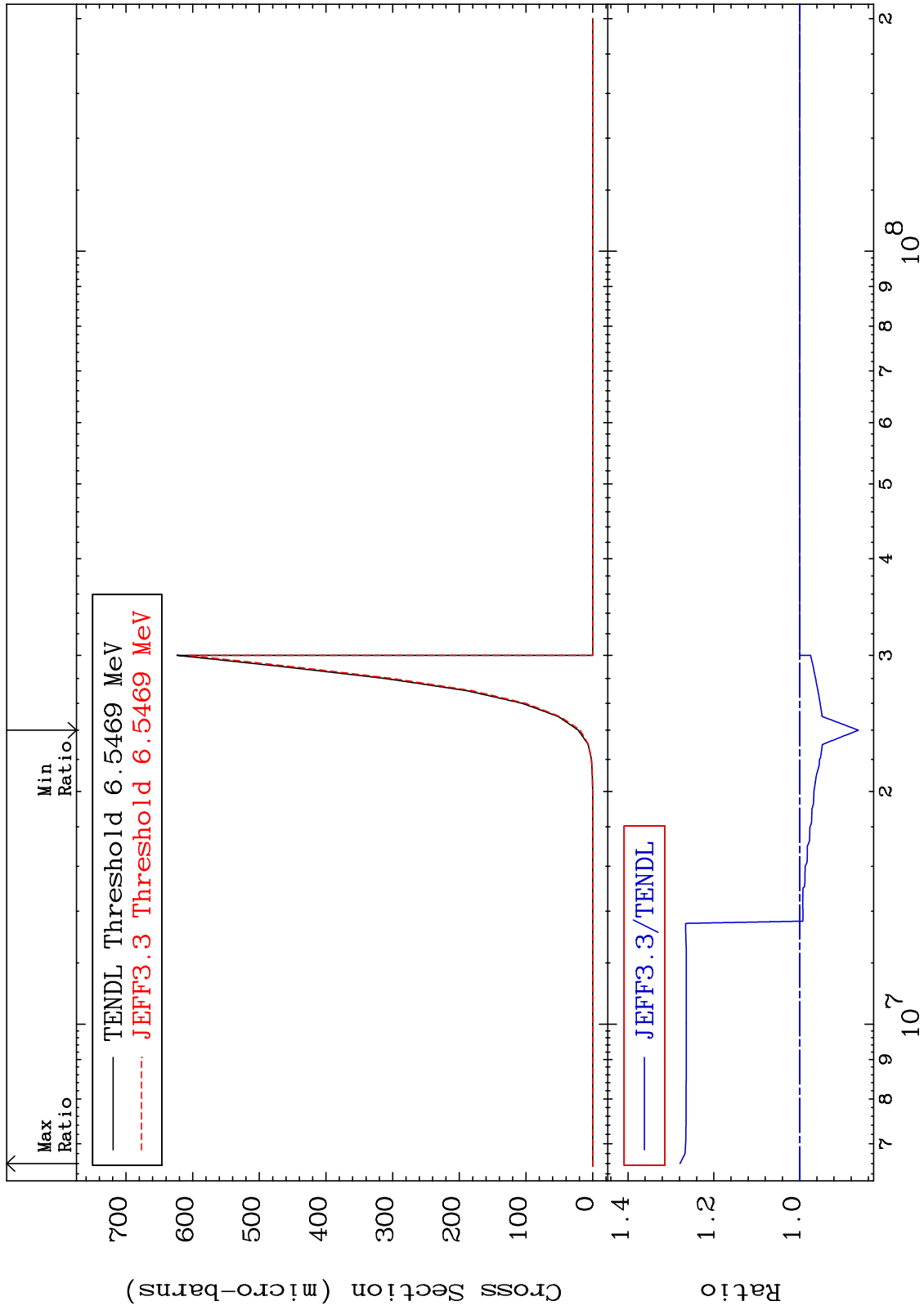
MAT 6243

(n, He-3)

62-Sm-150

Cross Section

-13.68 To 27.88 %

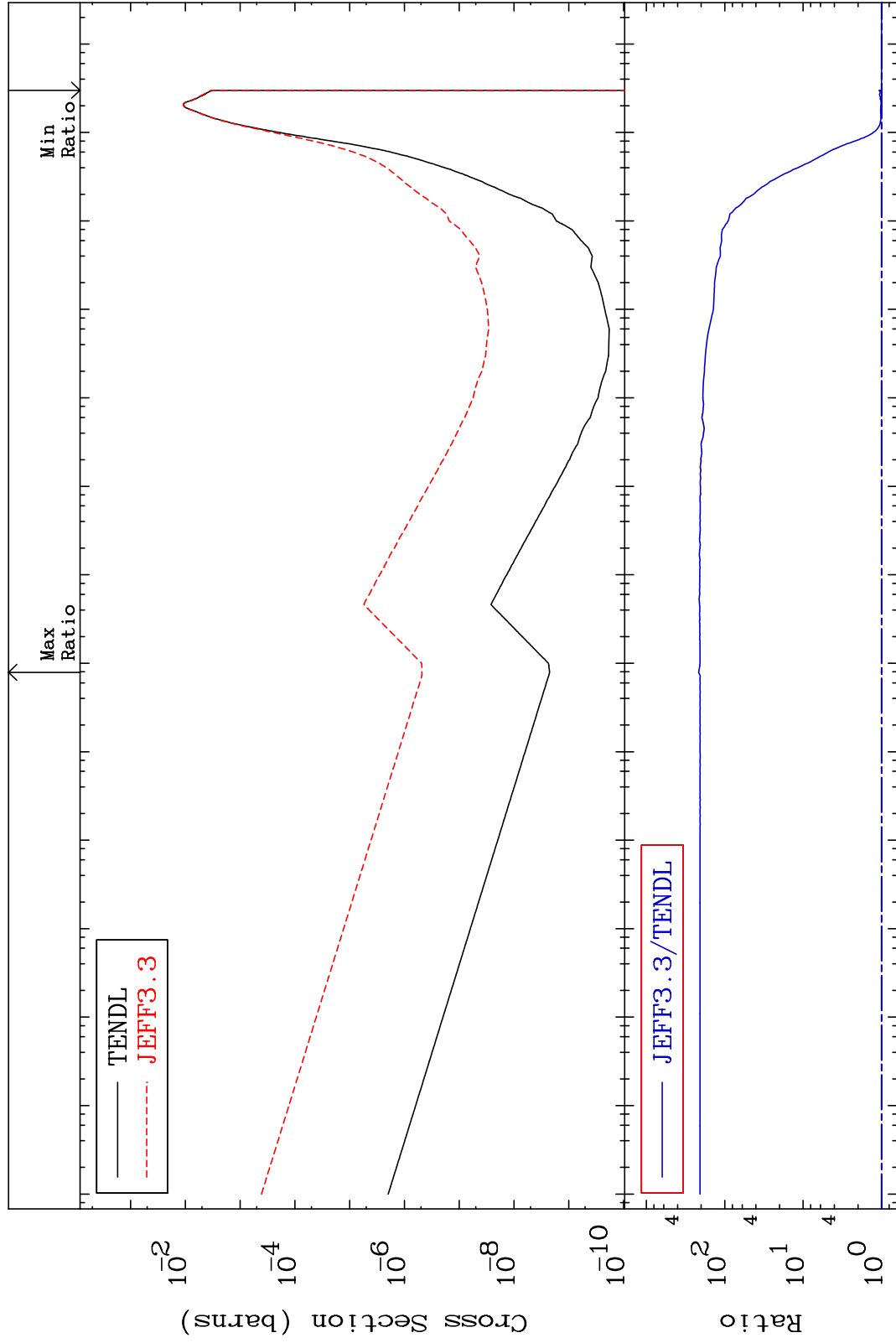


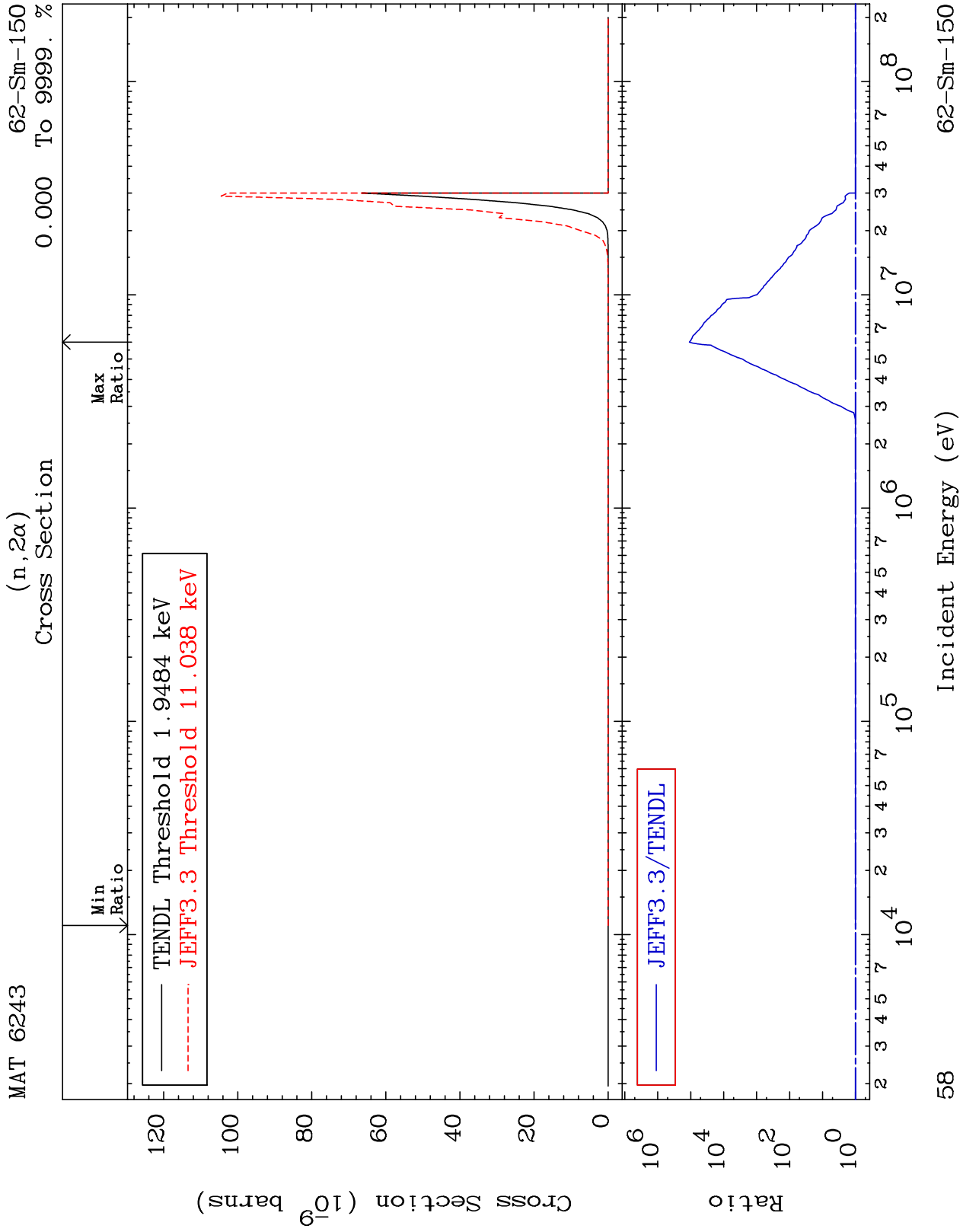
MAT 6243

(n,  $\alpha$ )  
Cross Section

62-Sm-150  
0.000 To 9999. %

Min  
Ratio





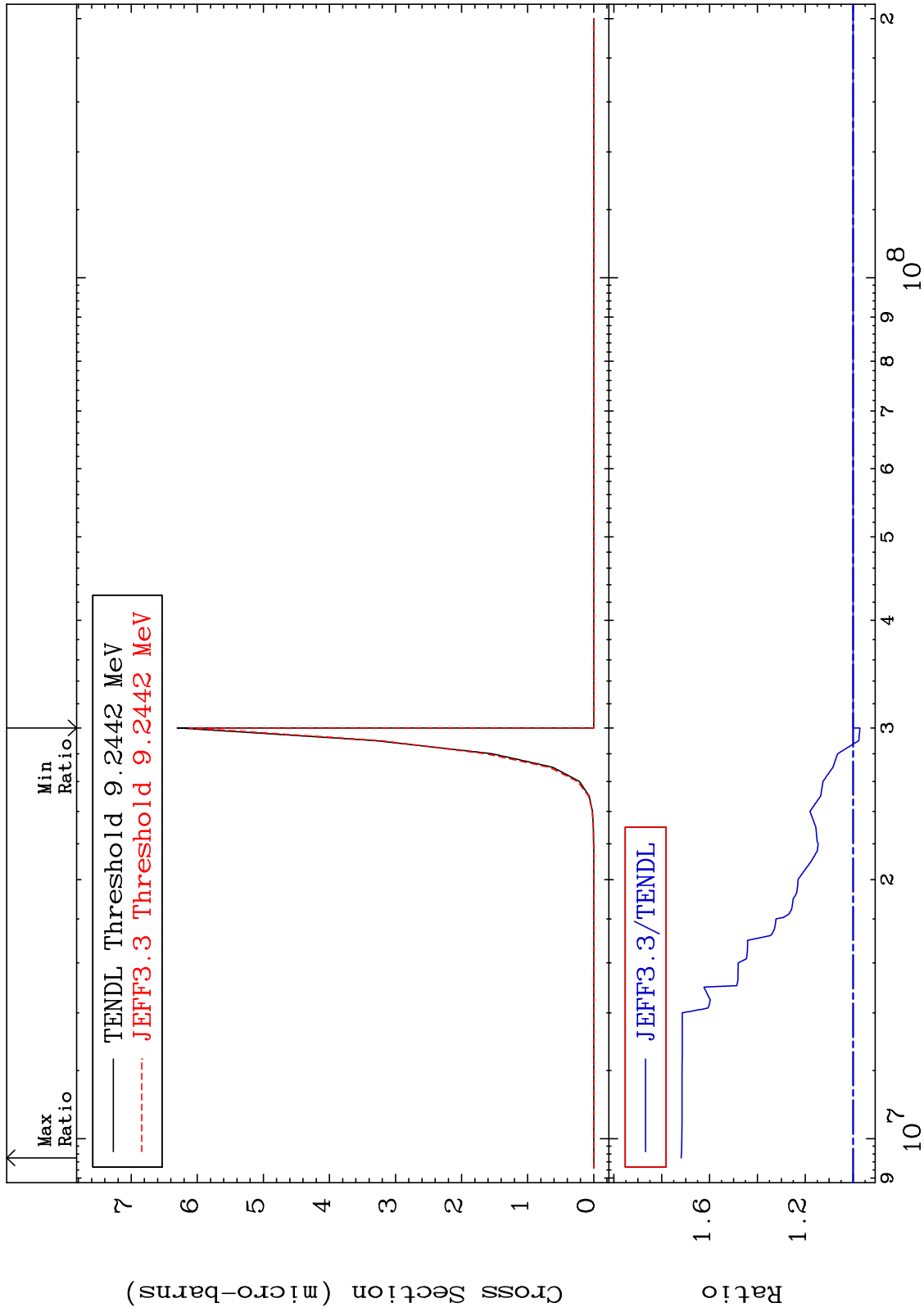
MAT 6243

(n,2p)

62-Sm-150

Cross Section

-2.865 To 71.87 %



59

Incident Energy (eV)

62-Sm-150

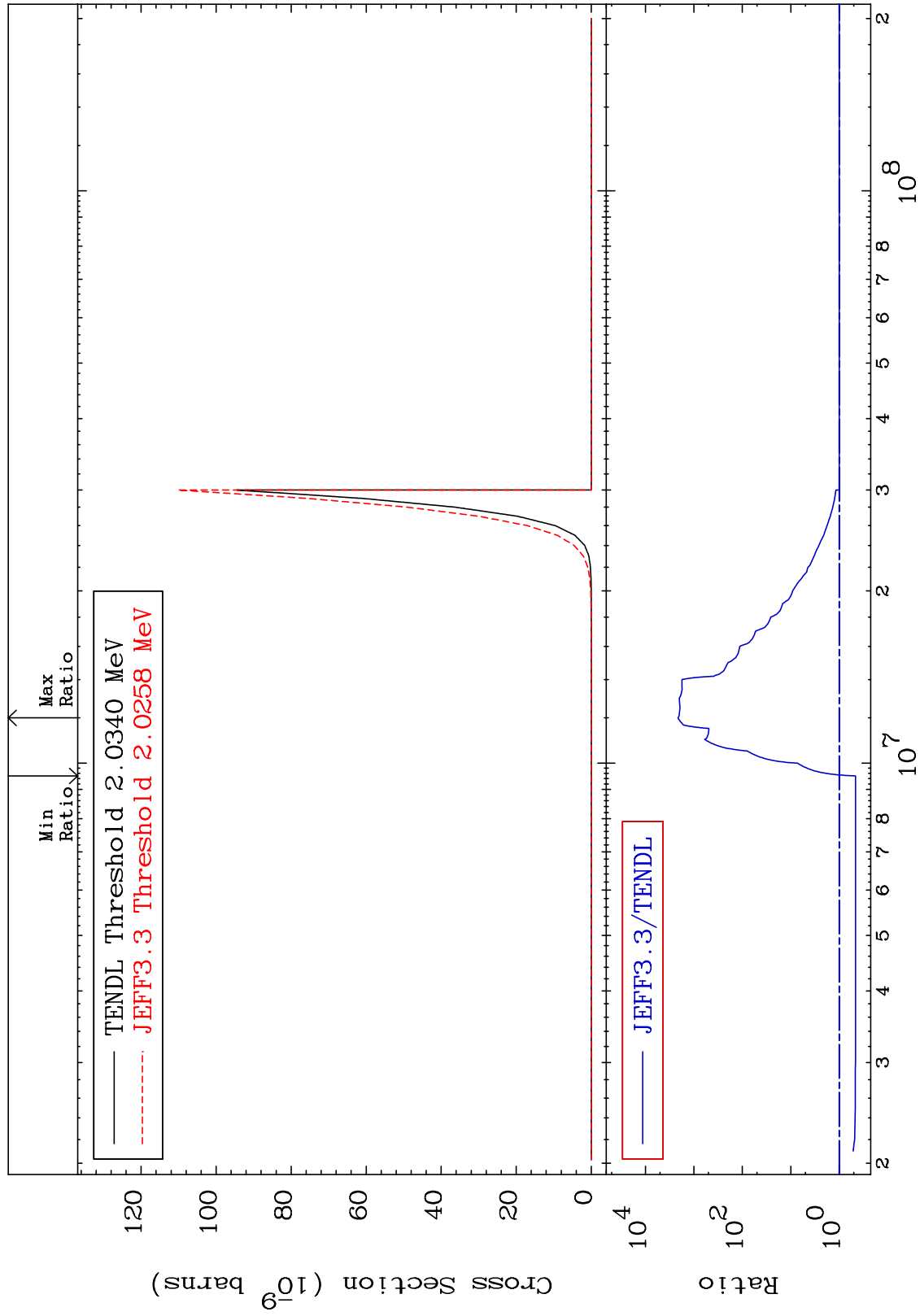
MAT 6243

(n,p)  $\alpha$

62-Sm-150

-54.14 To 9999. %

Cross Section



60

Incident Energy (eV)

62-Sm-150

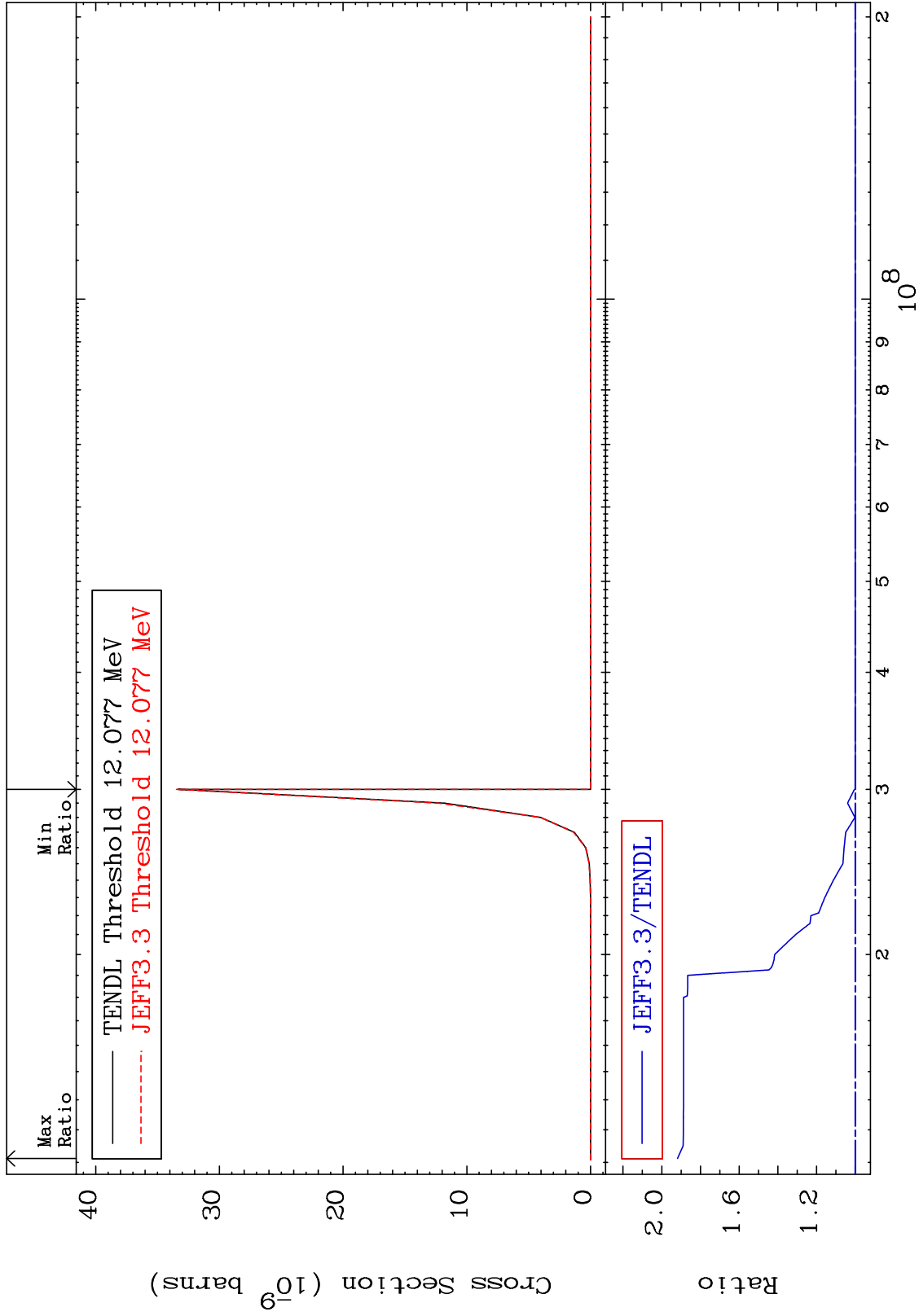
MAT 6243

(n,p) d

62-Sm-150

Cross Section

0.000 To 91.83 %



61

Incident Energy (eV)

62-Sm-150

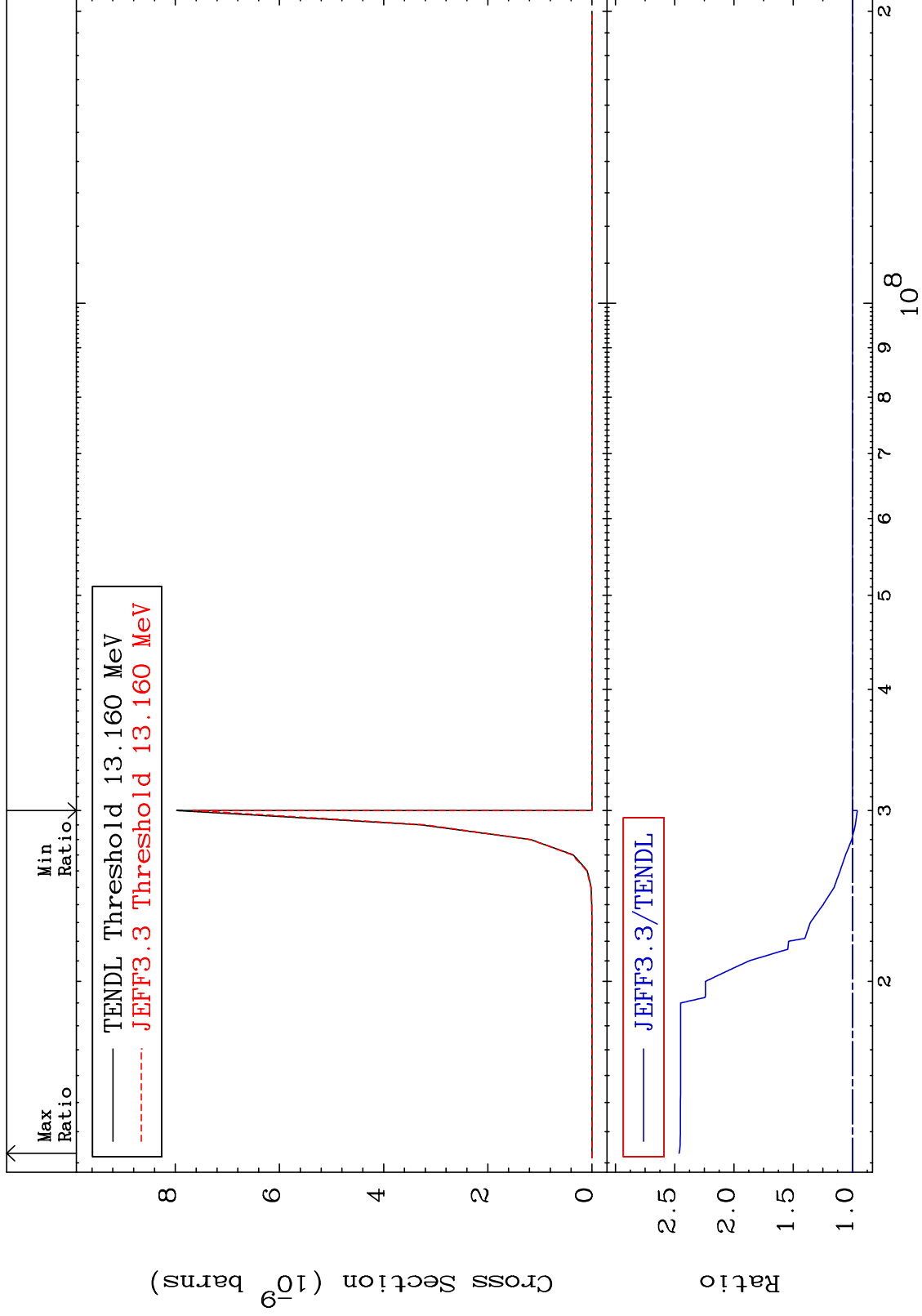
MAT 6243

(n,p) t

62-Sm-150

Cross Section

-4.030 To 146.3 %



62

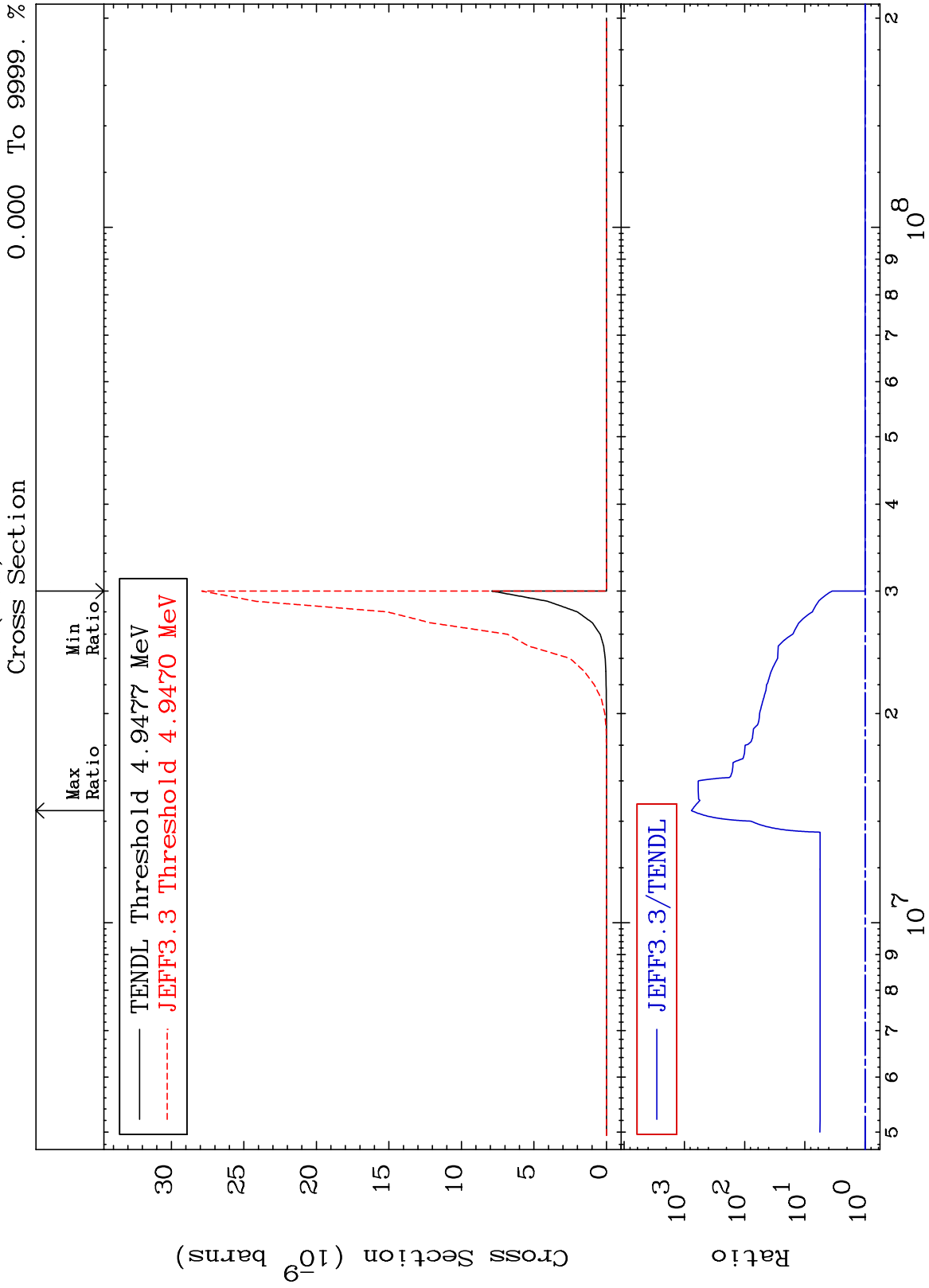
Incident Energy (eV)

62-Sm-150

MAT 6243

(n,d)  $\alpha$

62-Sm-150  
To 9999. %  
0.000

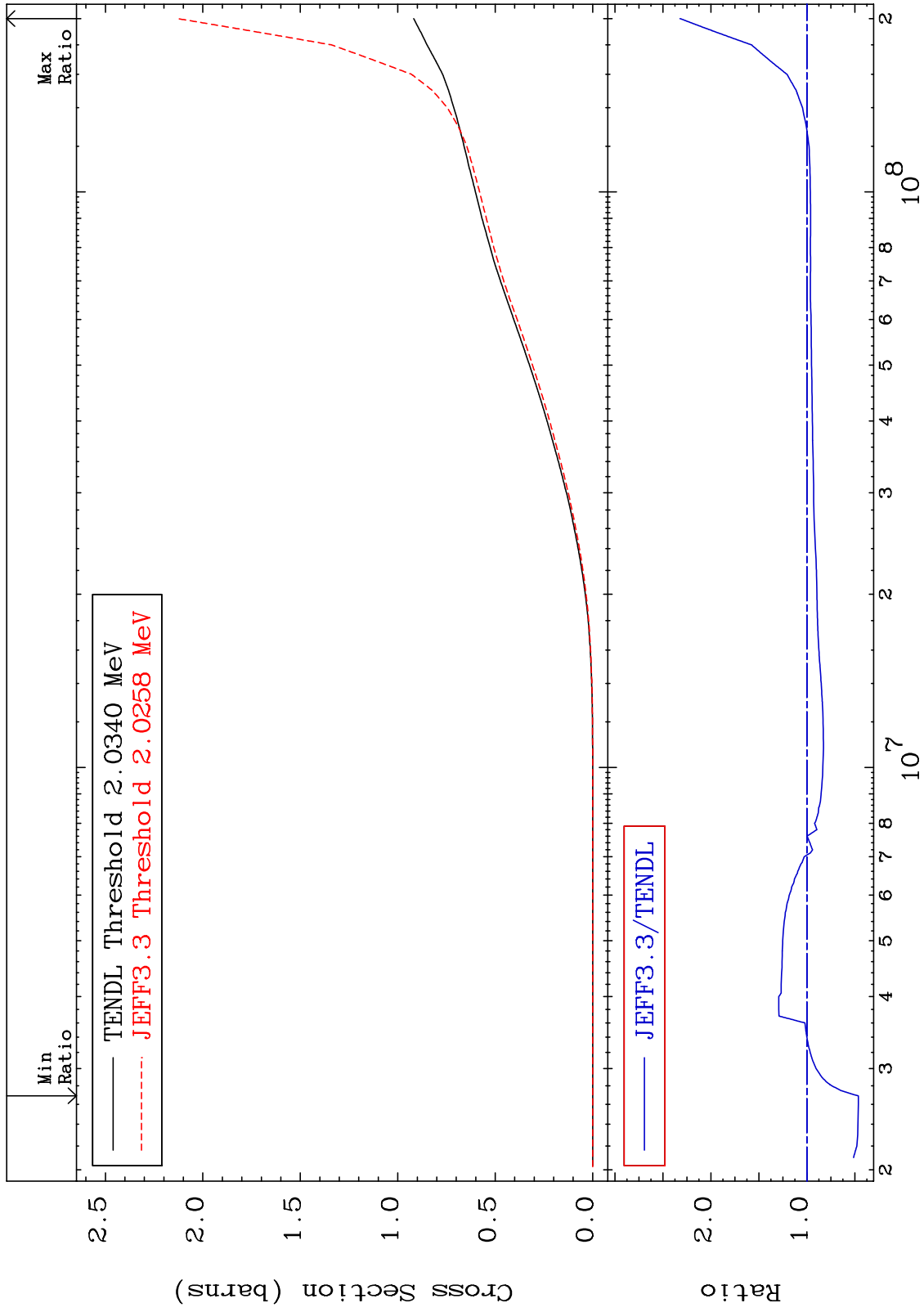




MAT 6243

Hydrogen Production  
Cross Section

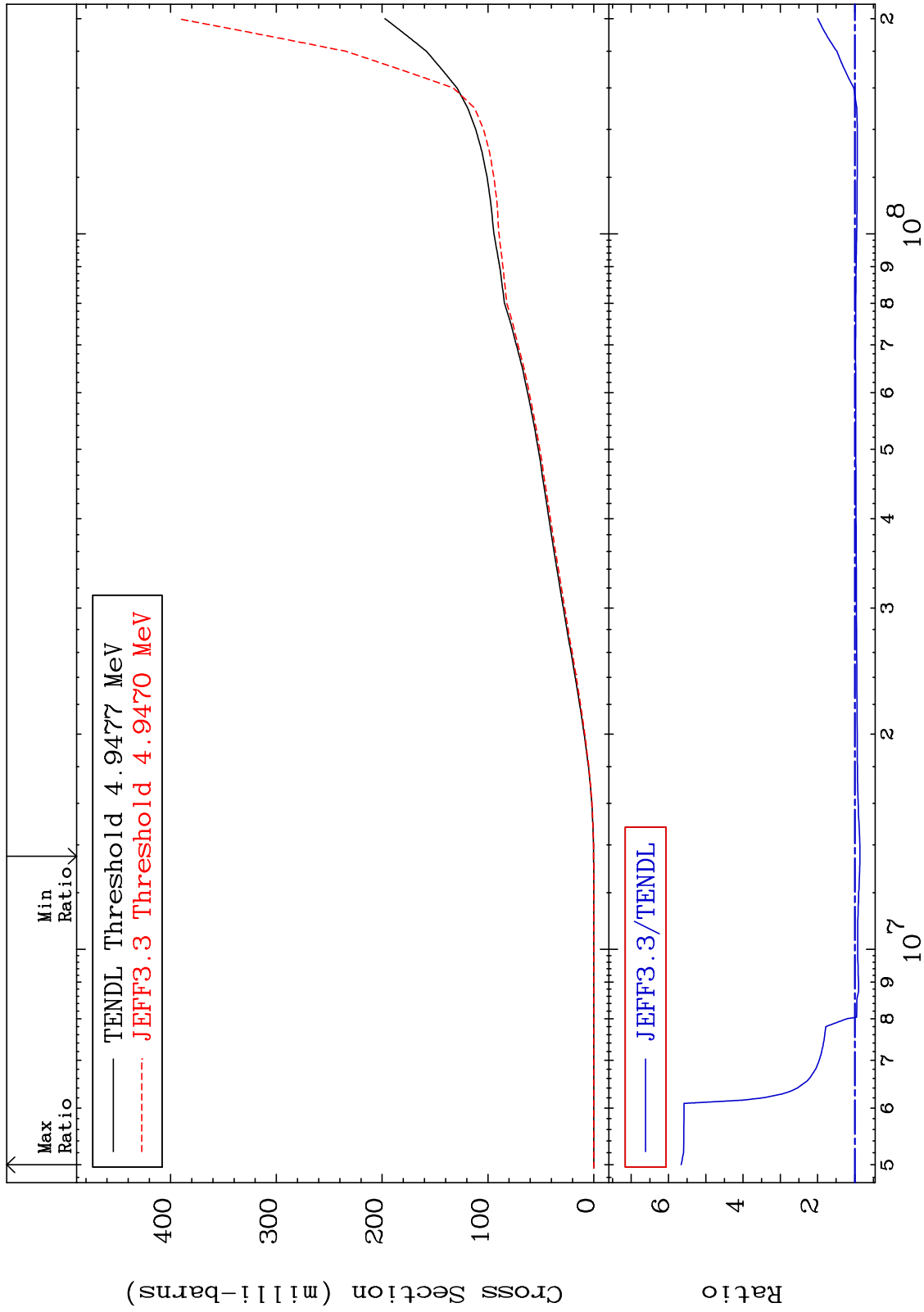
62-Sm-150  
-53.61 To 132.3 %



MAT 6243

Deuterium Production  
Cross Section

62-Sm-150  
-13.80 To 465.8 %



65

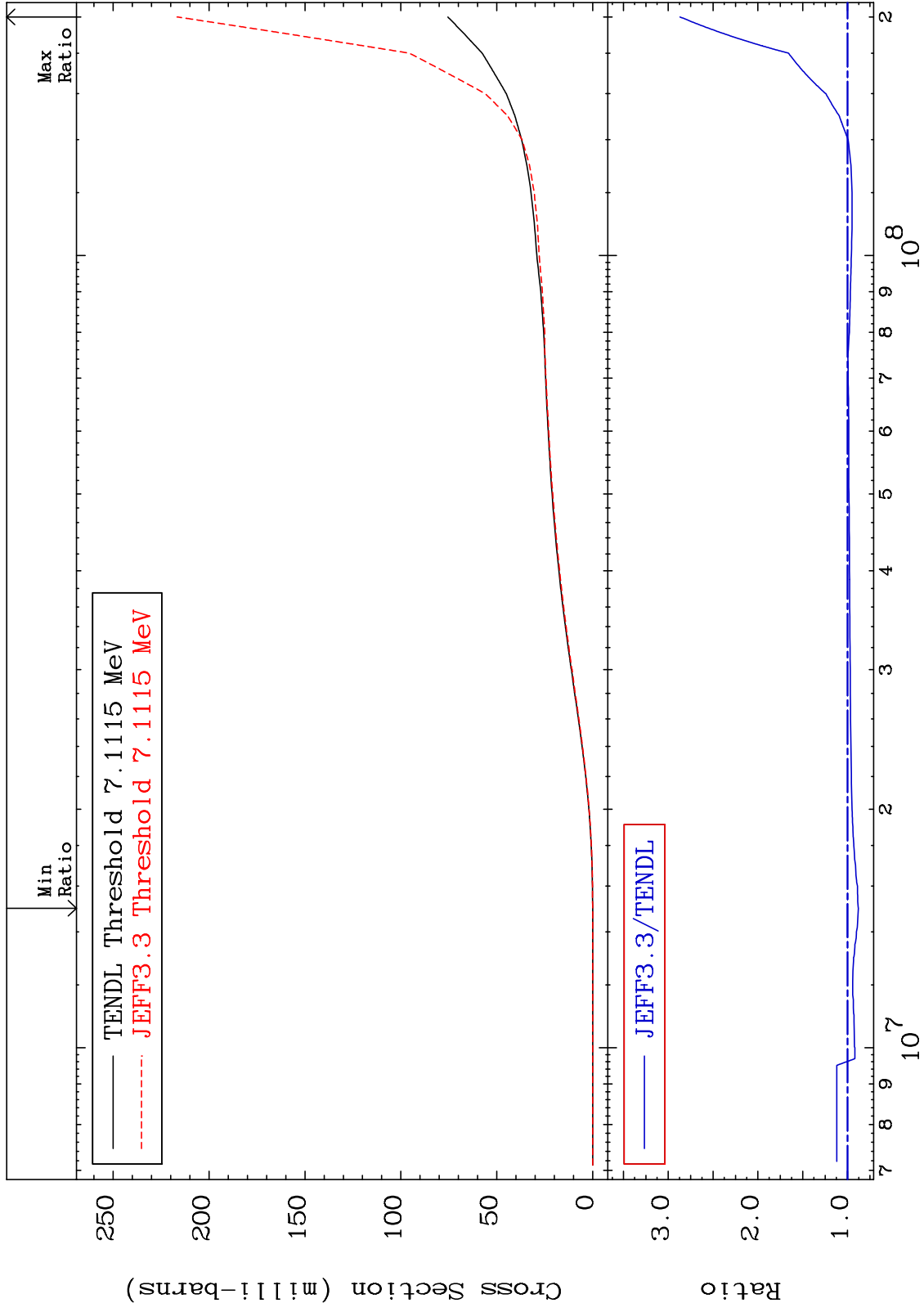
Incident Energy (eV)

62-Sm-150

MAT 6243

Tritium Production  
Cross Section

62-Sm-150  
-12.10 To 186.9 %



66

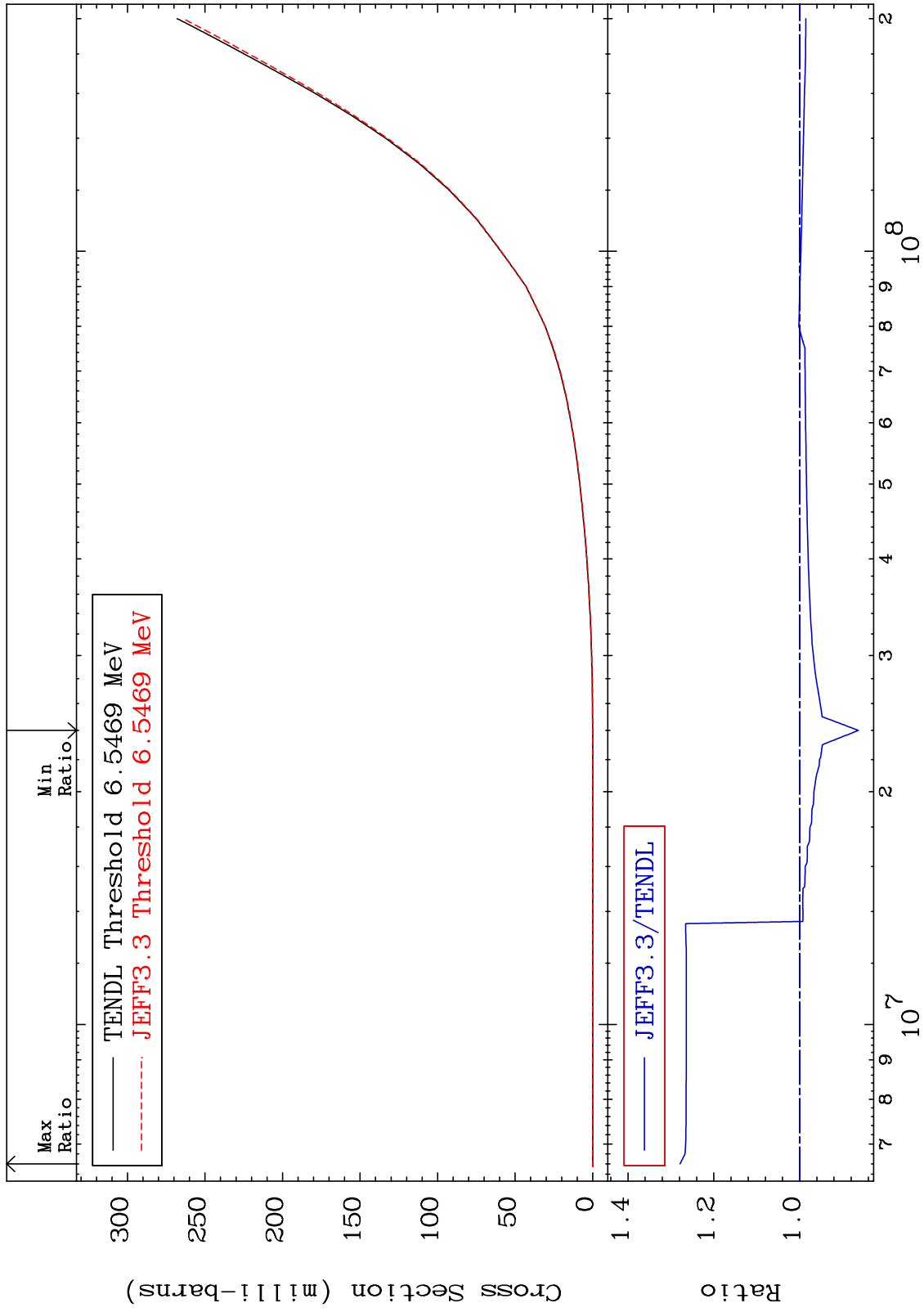
Incident Energy (eV)

62-Sm-150

MAT 6243

He-3 Production  
Cross Section

62-Sm-150  
-13.68 To 27.88 %



67

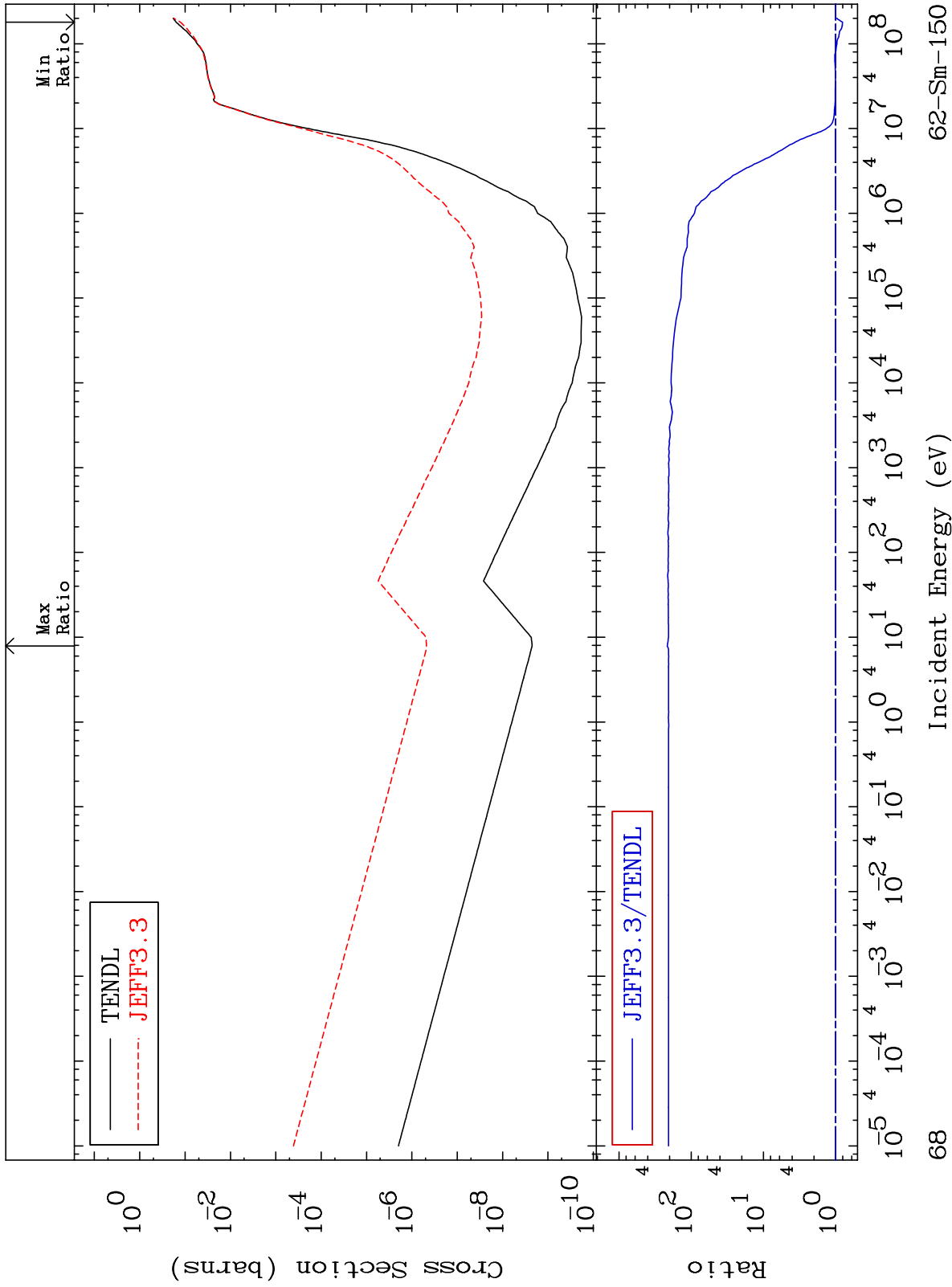
Incident Energy (eV)

62-Sm-150

MAT 6243

He-4 Production  
Cross Section

62-Sm-150  
-19.80 To 9999. %



68

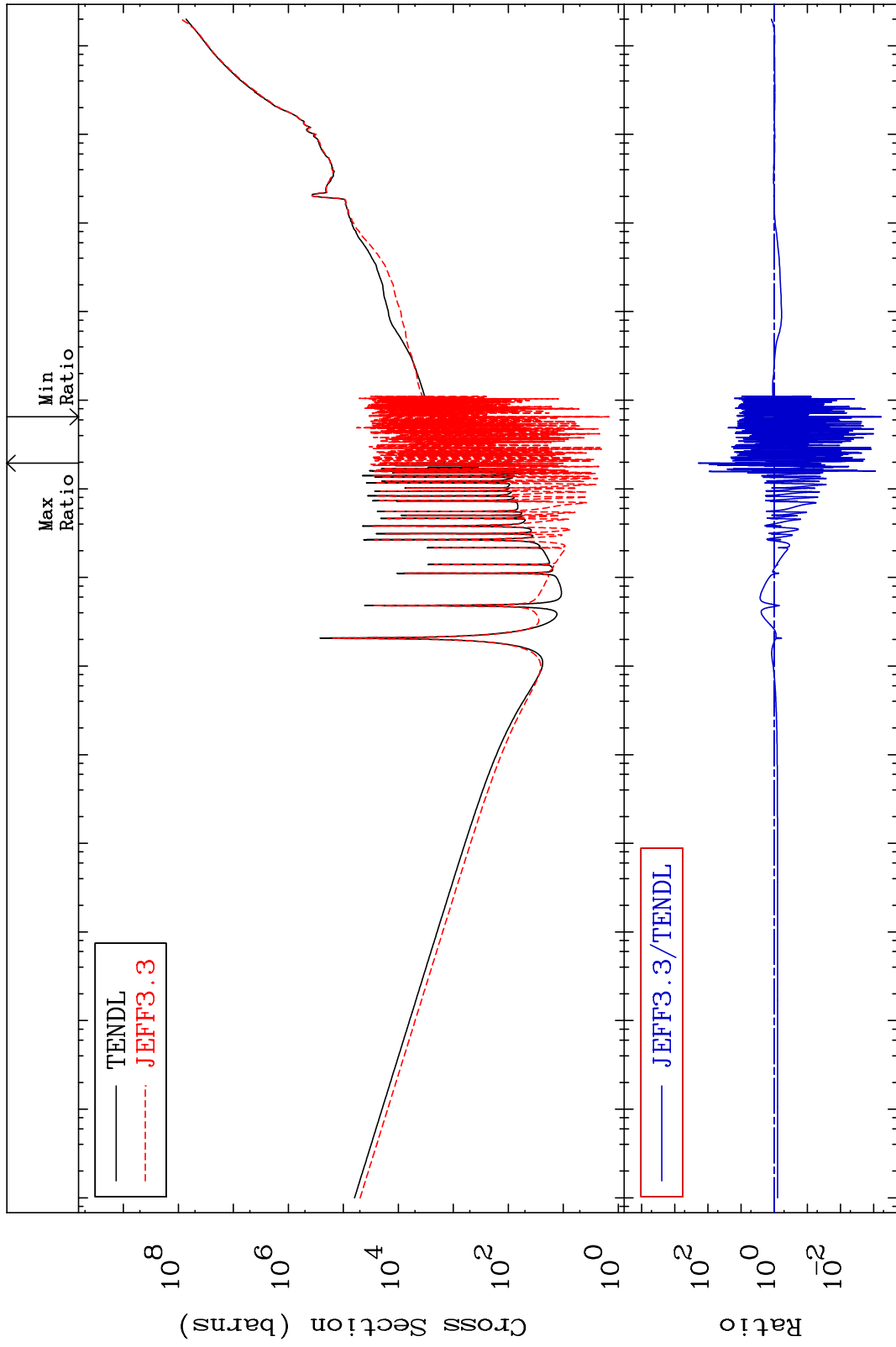
Incident Energy (eV)

62-Sm-150

MAT 6243

Kerma total (eV-barns)  
Cross Section

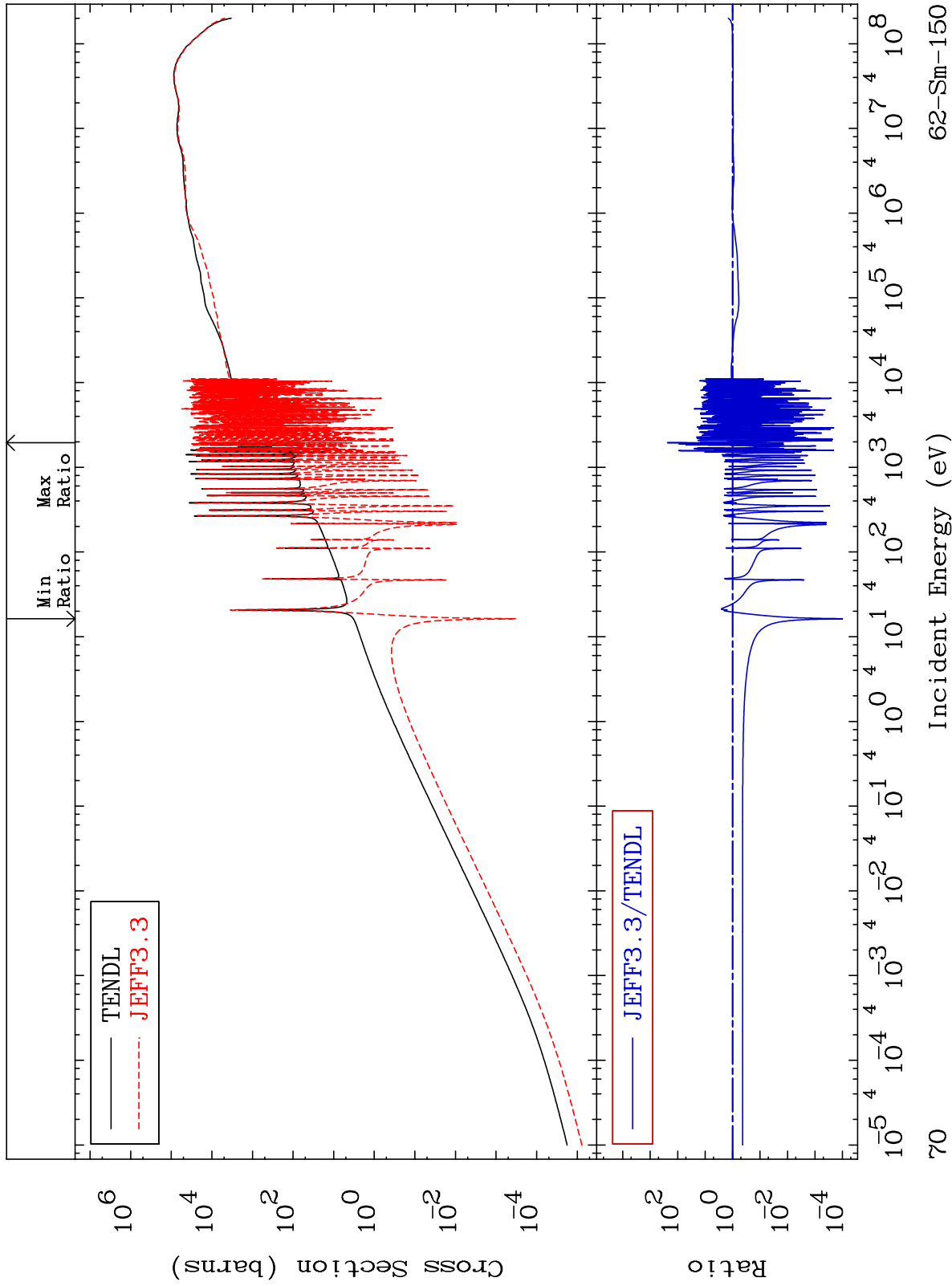
62-Sm-150  
-99.94 To 9999. %



MAT 6243

Kerma elastic  
Cross Section

62-Sm-150  
-99.99 To 9999. %



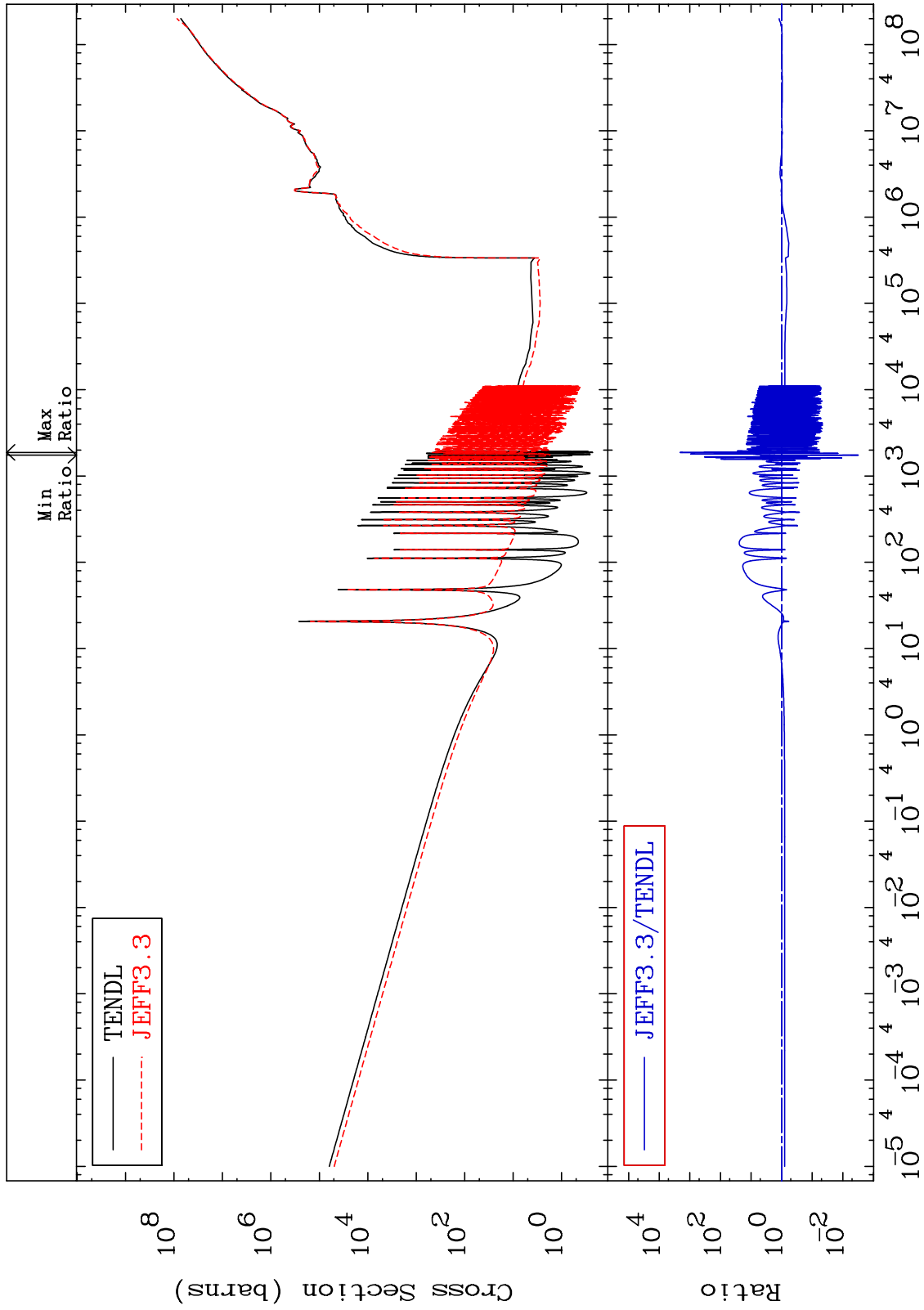
70

62-Sm-150

MAT 6243

Kerma non-elastic (all but mt2)  
Cross Section

62-Sm-150  
-99.69 To 9999. %



71

Incident Energy (eV)

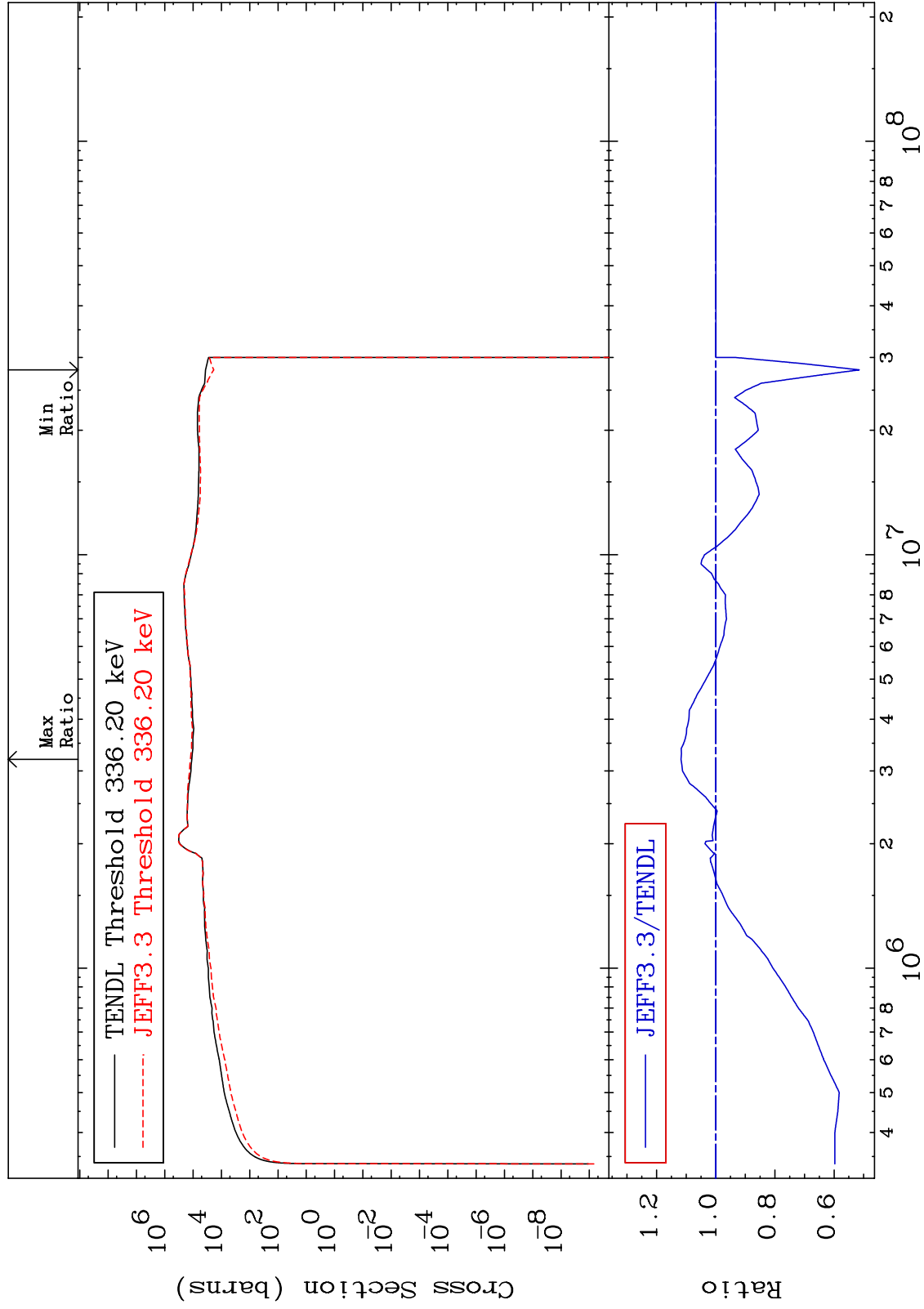
62-Sm-150



MAT 6243

Kerma inelastic (mt51-91)  
Cross Section

62-Sm-150  
-48.52 To 11.73 %



72

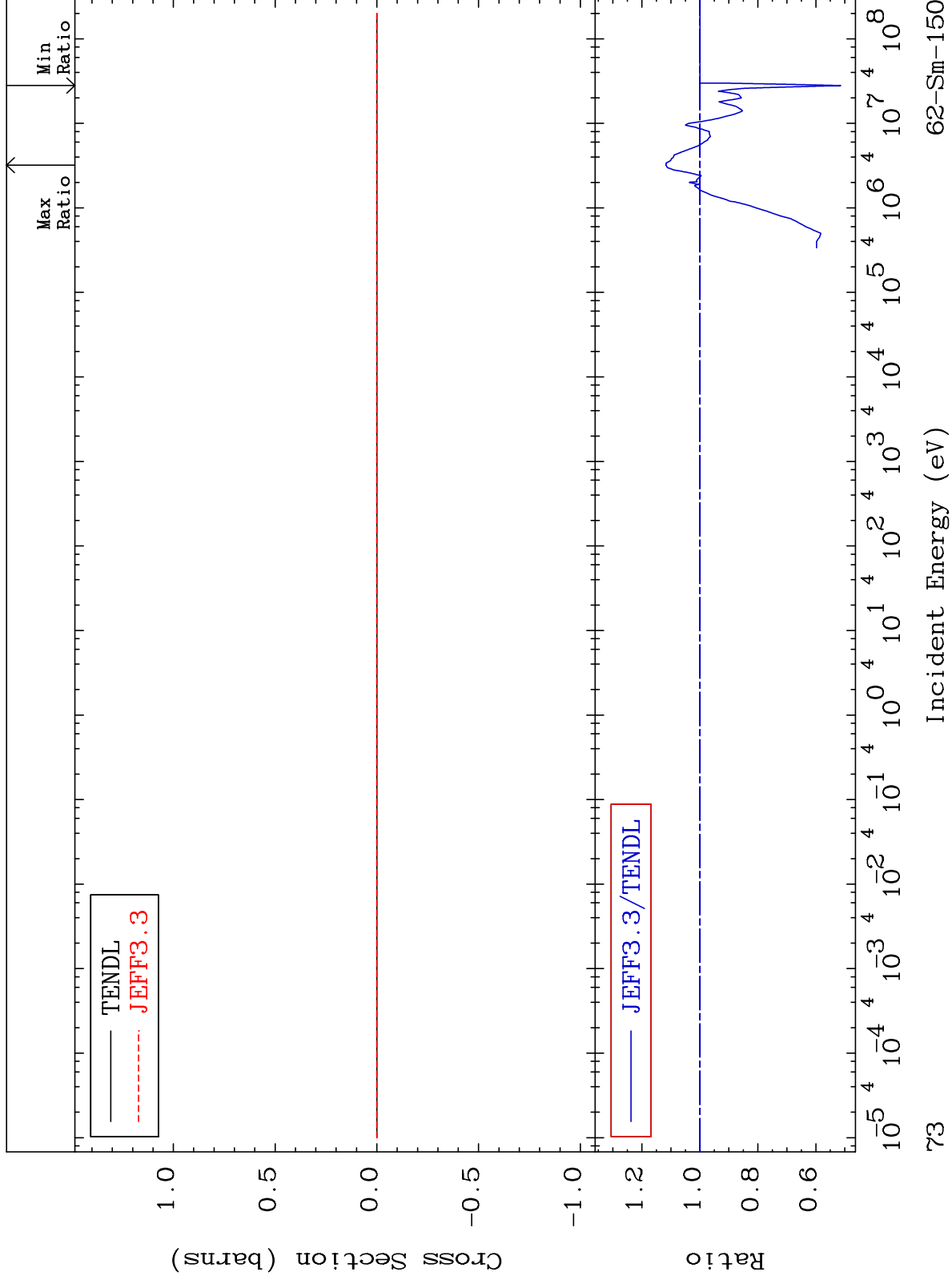
Incident Energy (eV)

62-Sm-150

MAT 6243

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

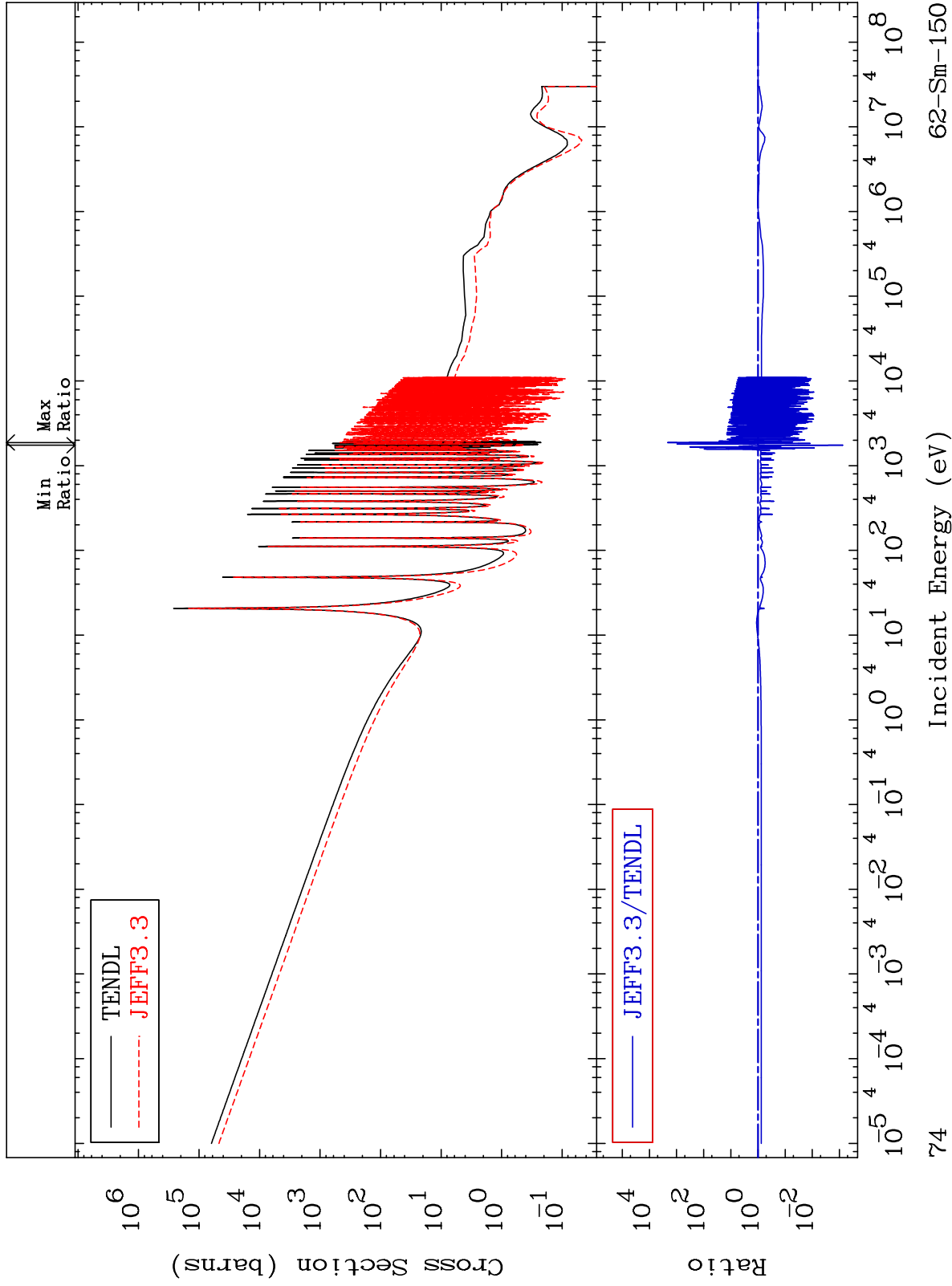
62-Sm-150  
-48.52 To 11.73 %



MAT 6243

Kerma capture (mt102)  
Cross Section

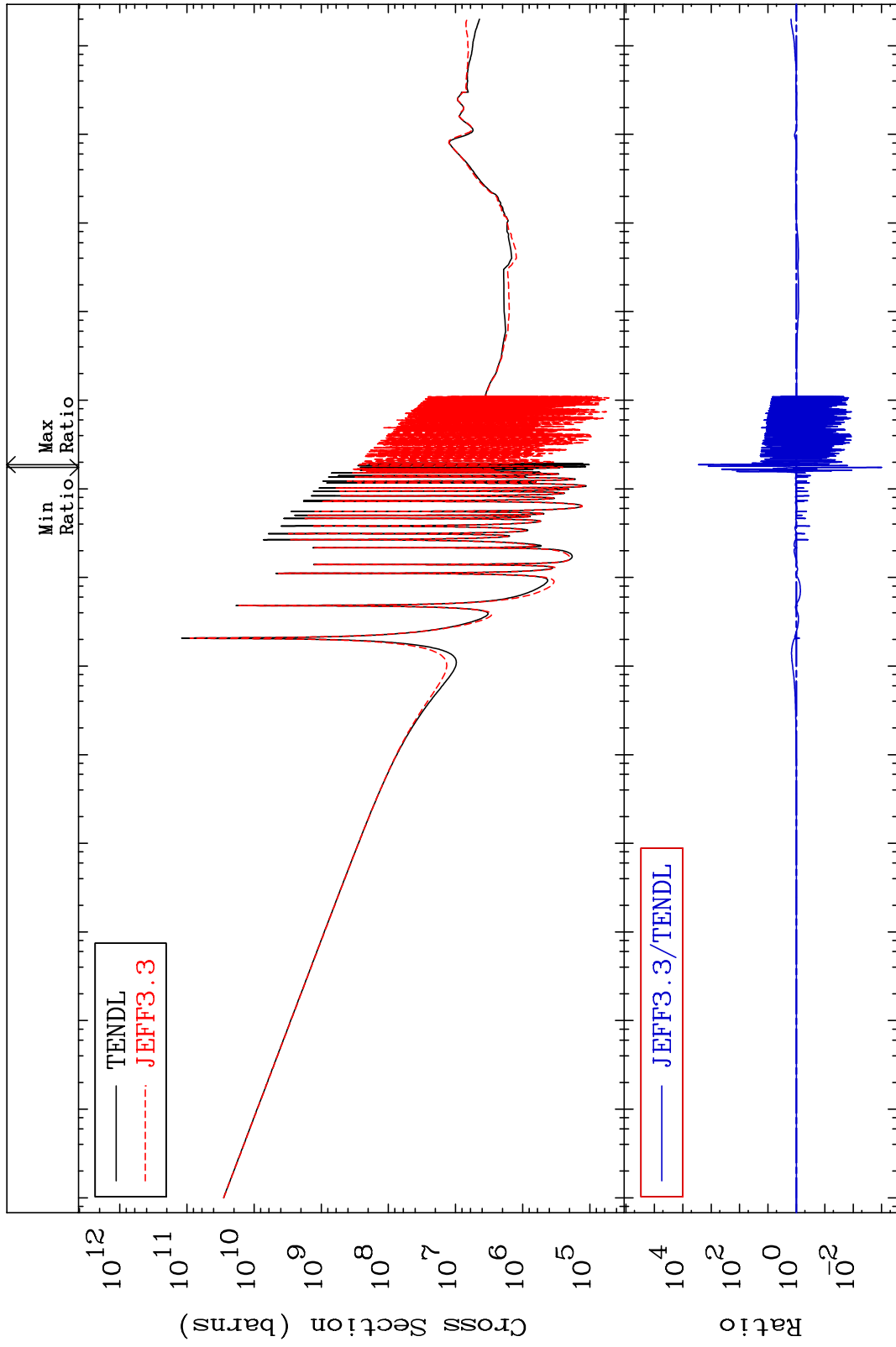
62-Sm-150  
-99.92 To 9999. %



MAT 6243

Total photon (eV-barns)  
Cross Section

62-Sm-150  
-99.90 To 9999. %



75

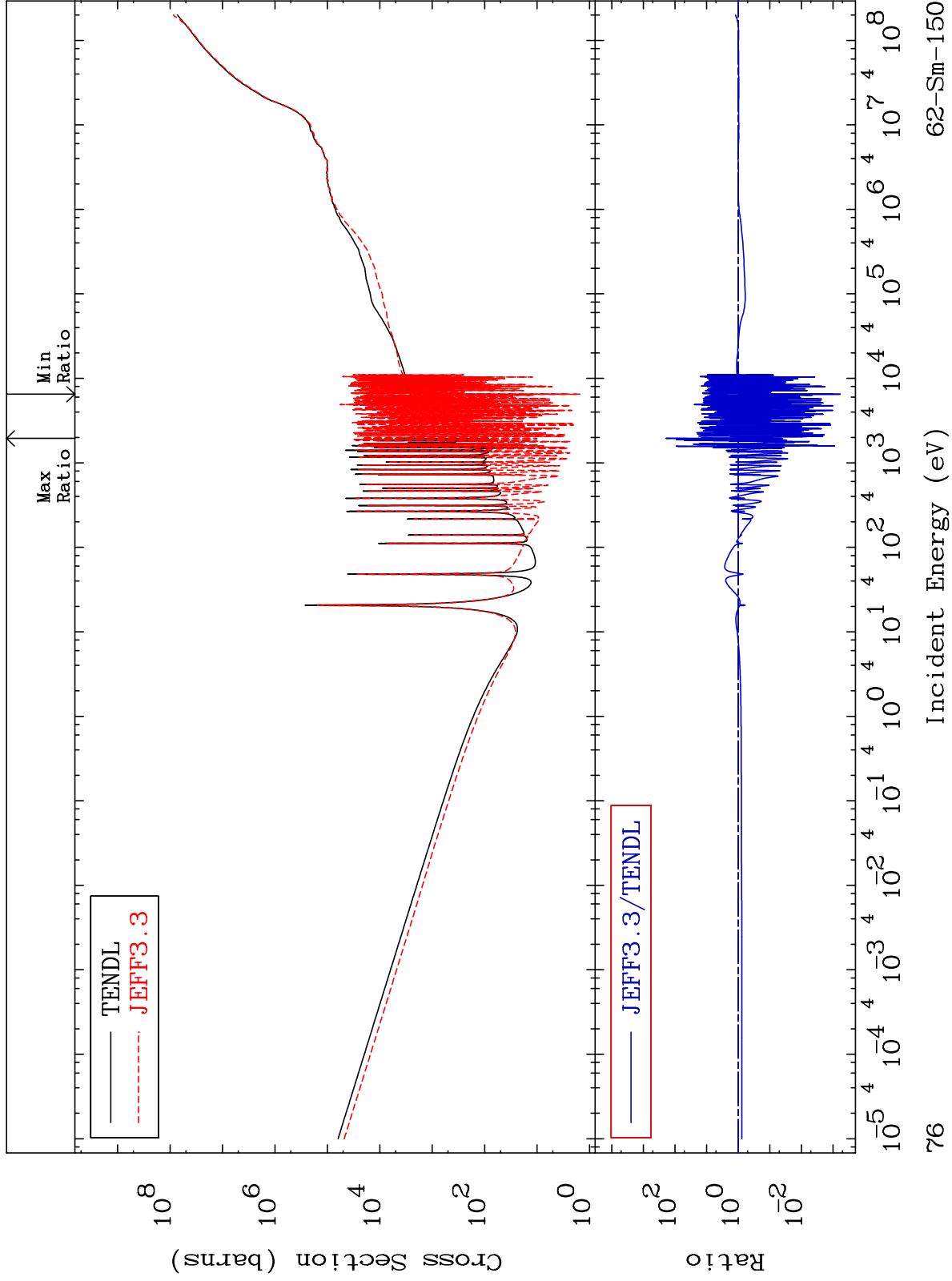
Incident Energy (eV)

62-Sm-150

MAT 6243

Total kinematic kerma (high limit)  
Cross Section

62-Sm-150  
-99.94 To 9999. %



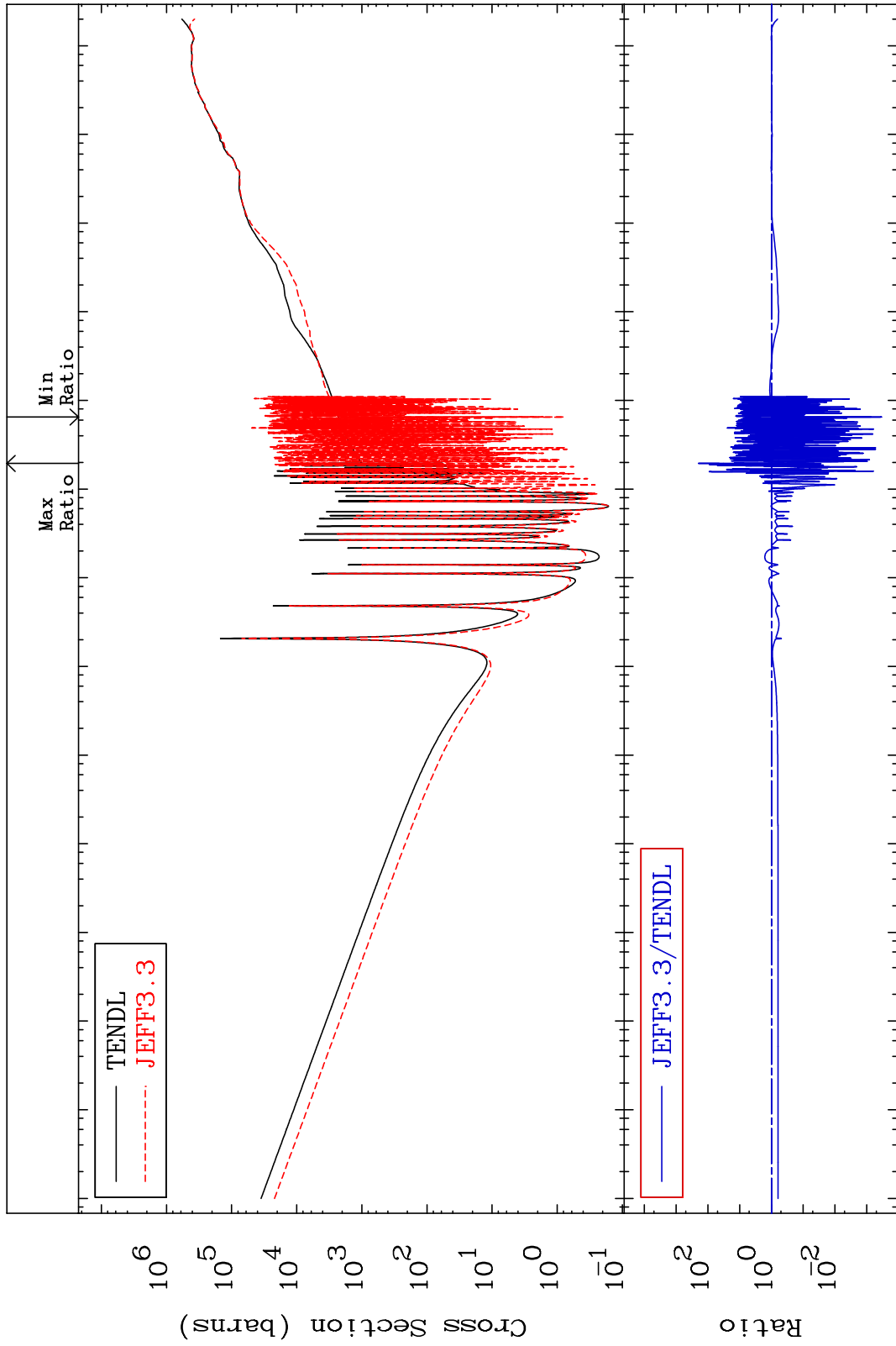
76

62-Sm-150

MAT 6243

Dpa total (eV-barns)  
Cross Section

62-Sm-150  
-99.97 To 9999. %



77

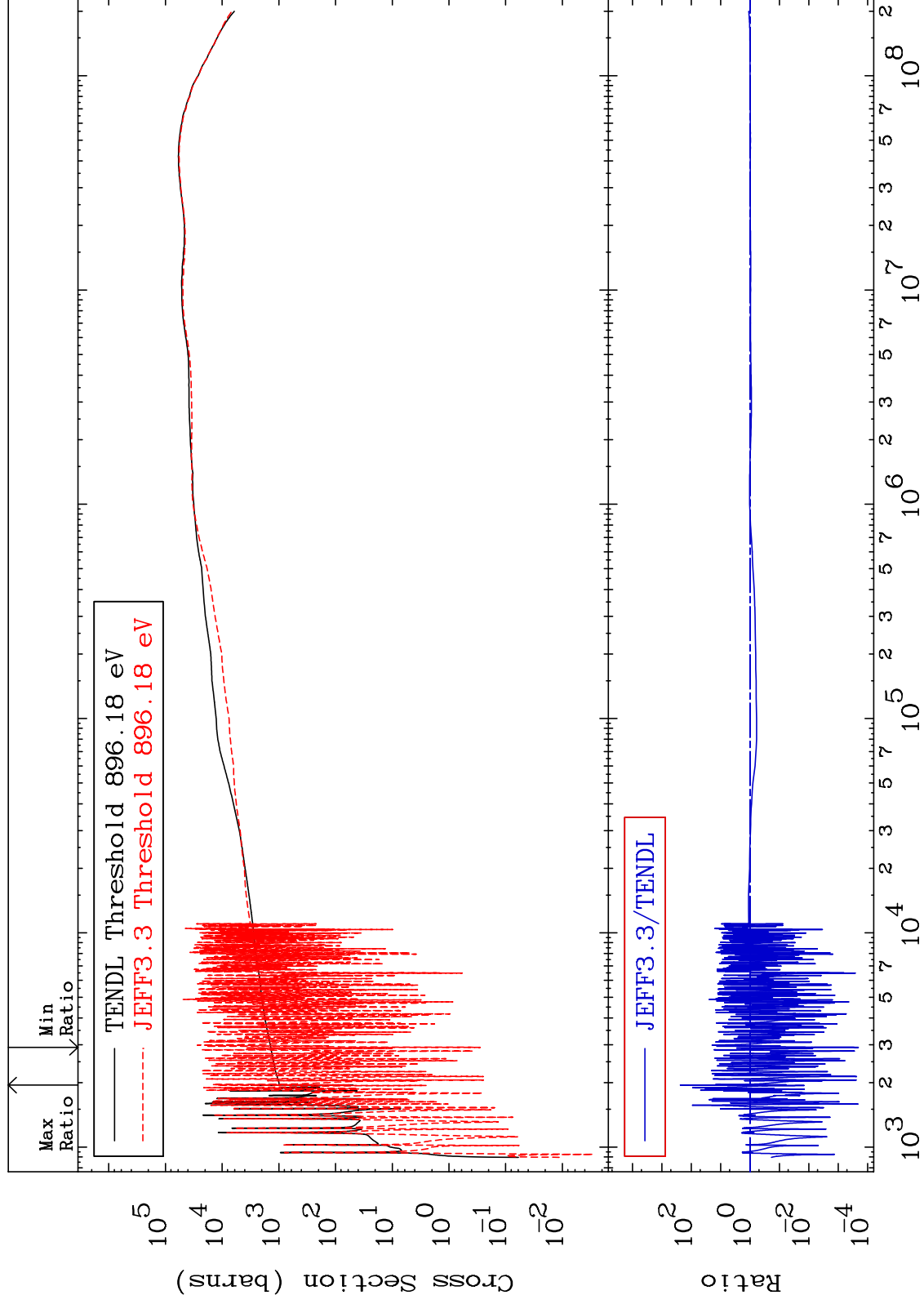
Incident Energy (eV)

62-Sm-150

MAT 6243

Dpa elastic (mt2)  
Cross Section

62-Sm-150  
-99.98 To 9999. %



78

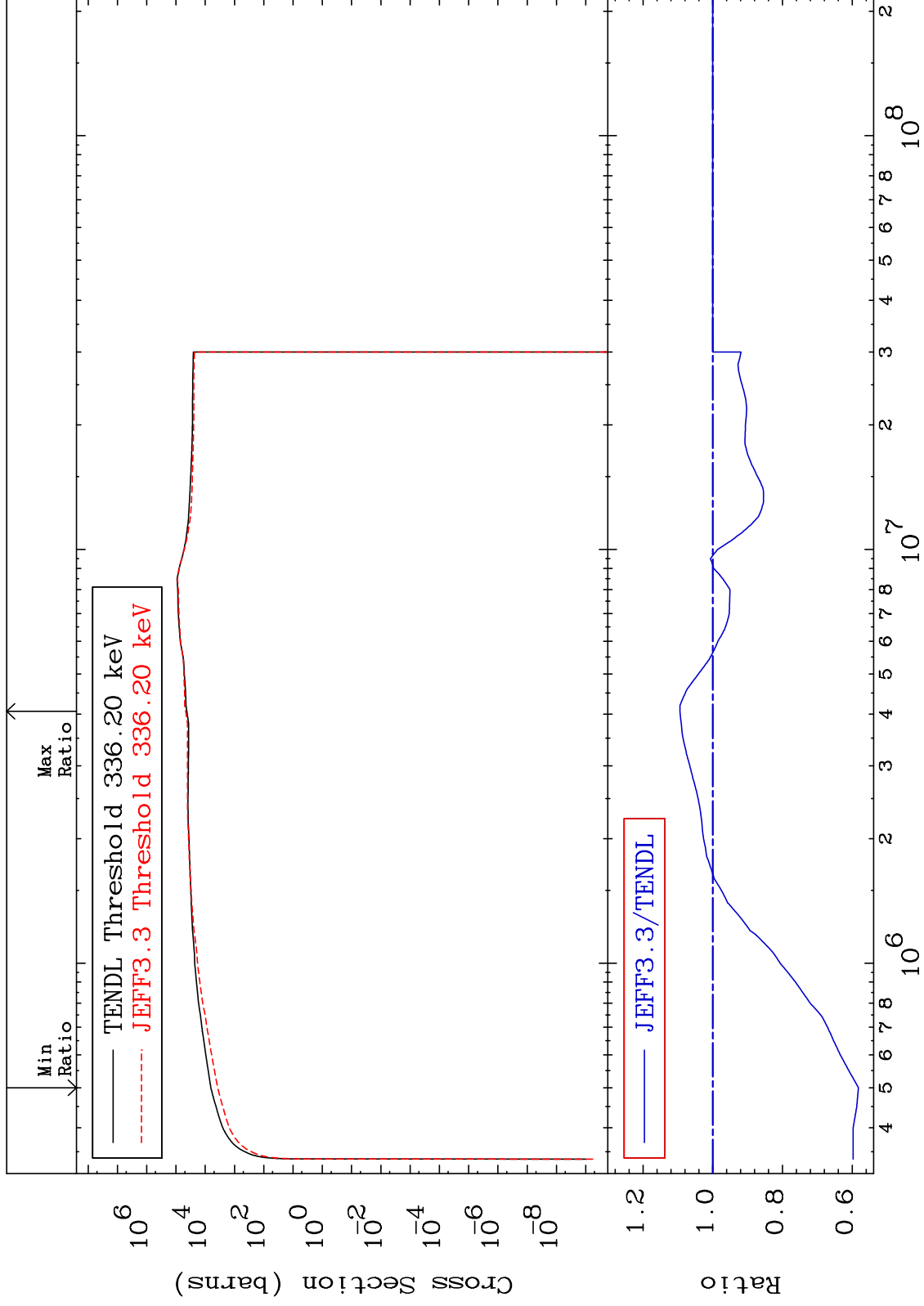
Incident Energy (eV)

62-Sm-150

MAT 6243

Dpa inelastic (mt51-91)  
Cross Section

62-Sm-150  
-41.75 To 9.390 %



79

Incident Energy (eV)

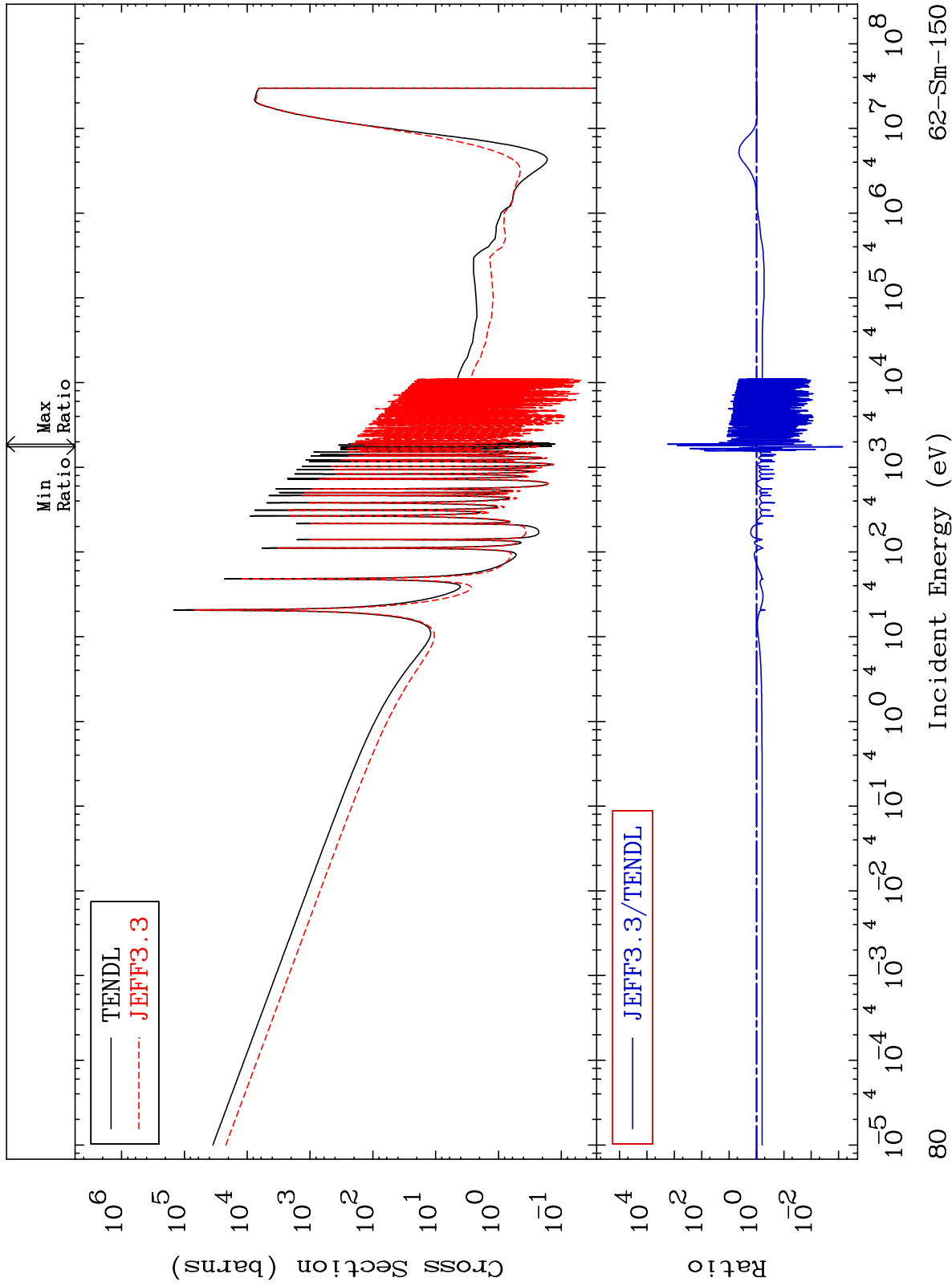
62-Sm-150



MAT 6243

Dpa disappearance (mt102 -120)  
Cross Section

62-Sm-150  
-99.93 To 9999. %

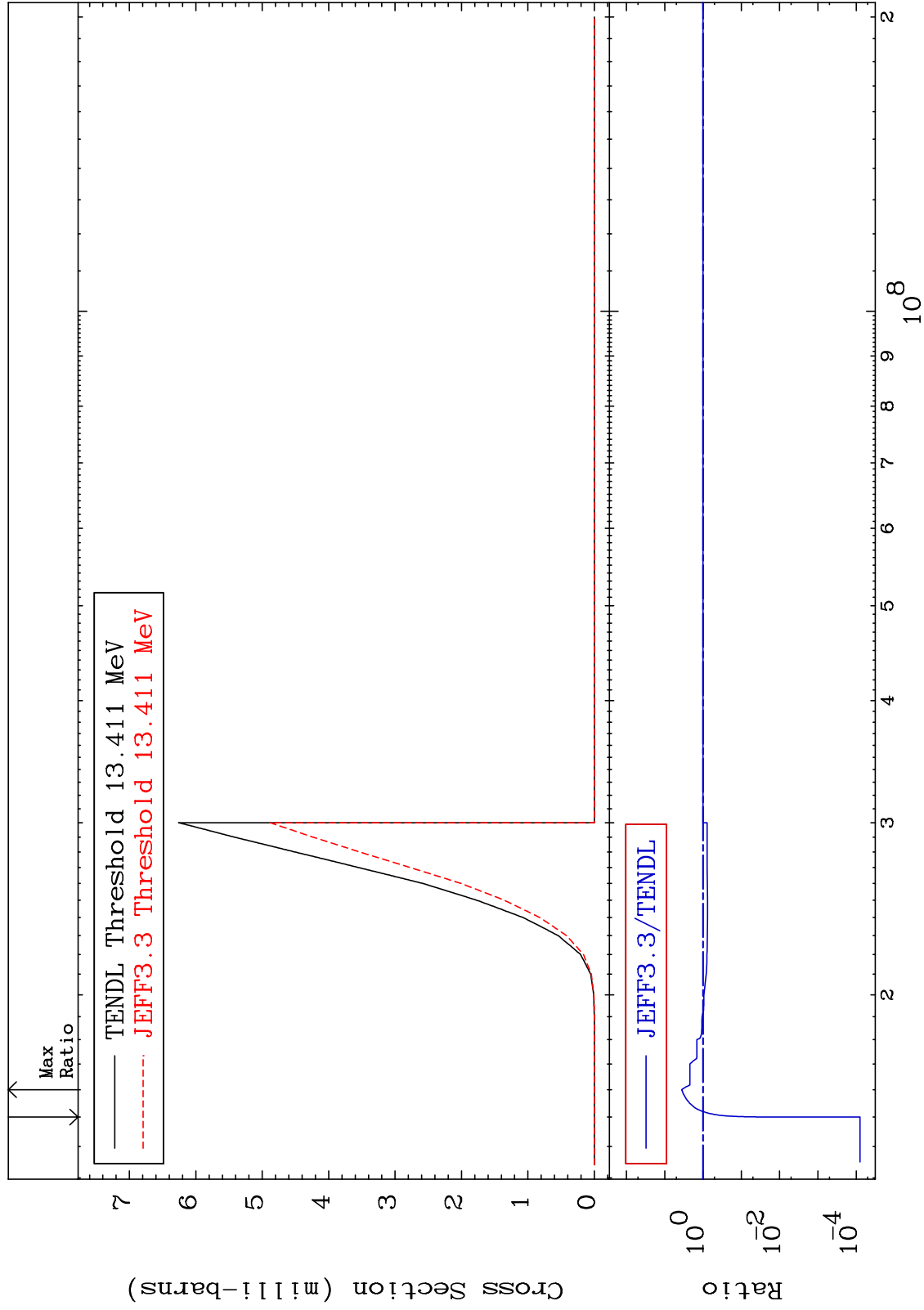


MAT 6243

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

62-Sm-150

Radionuclide Production Cross Section -99.99 To 261.6 %

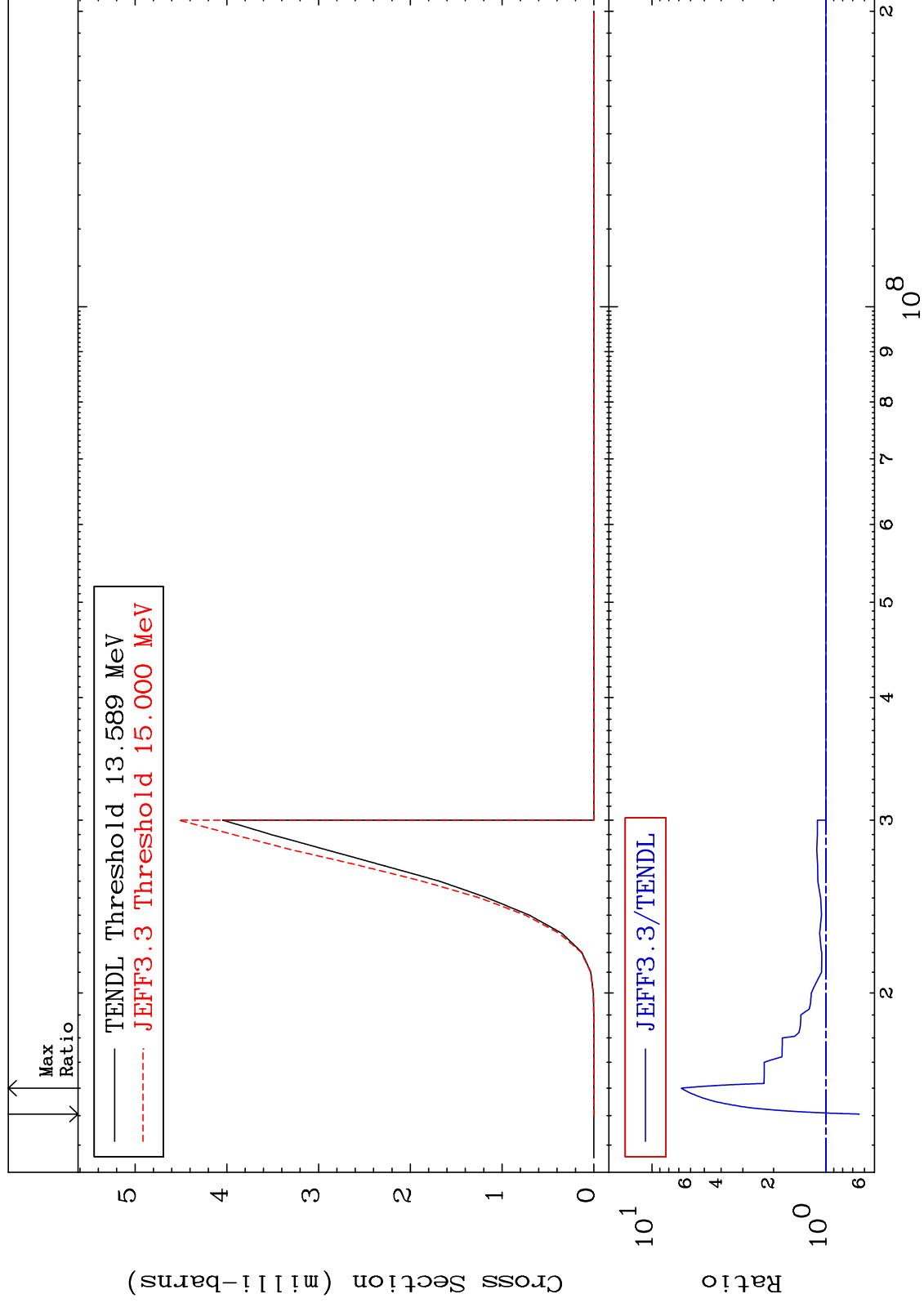


MAT 6243

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

62-Sm-150

Radionuclide Production Cross Section -35.77 To 580.4 %

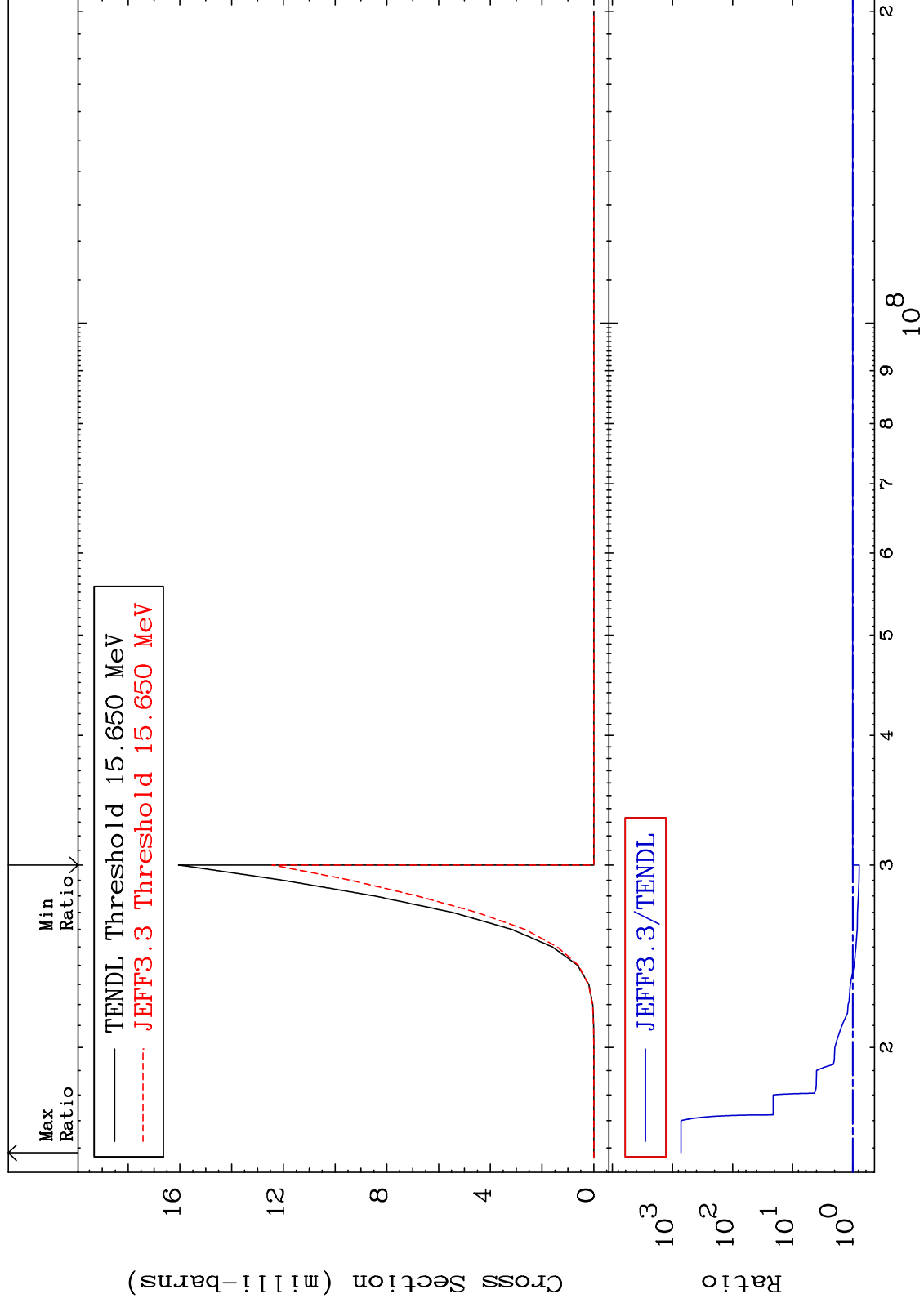


MAT 6243

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

62-Sm-150

Radionuclide Production Cross Section -22.49 To 9999. %

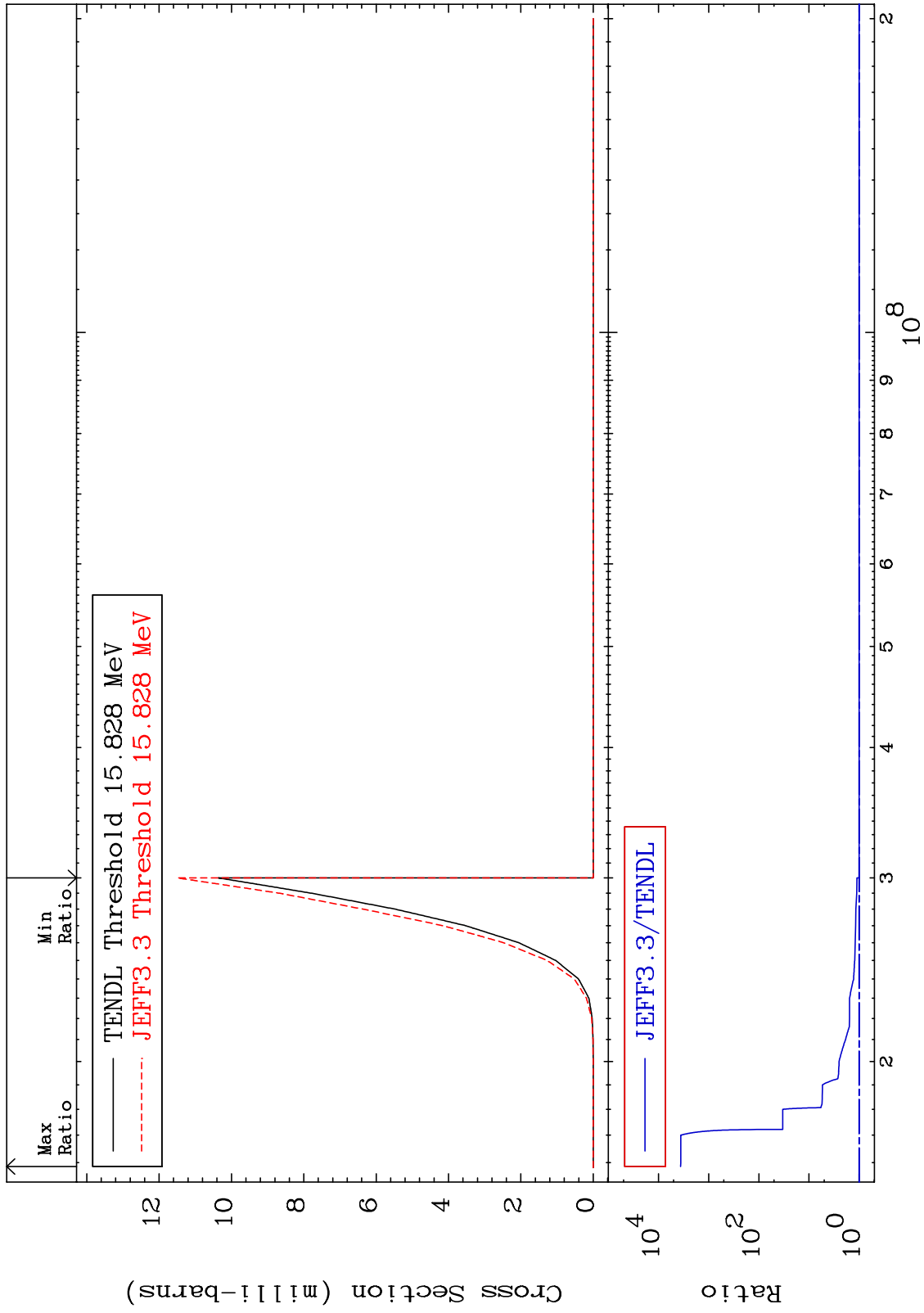


MAT 6243

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

62-Sm-150

Radionuclide Production Cross Section 0.000 To 9999. %

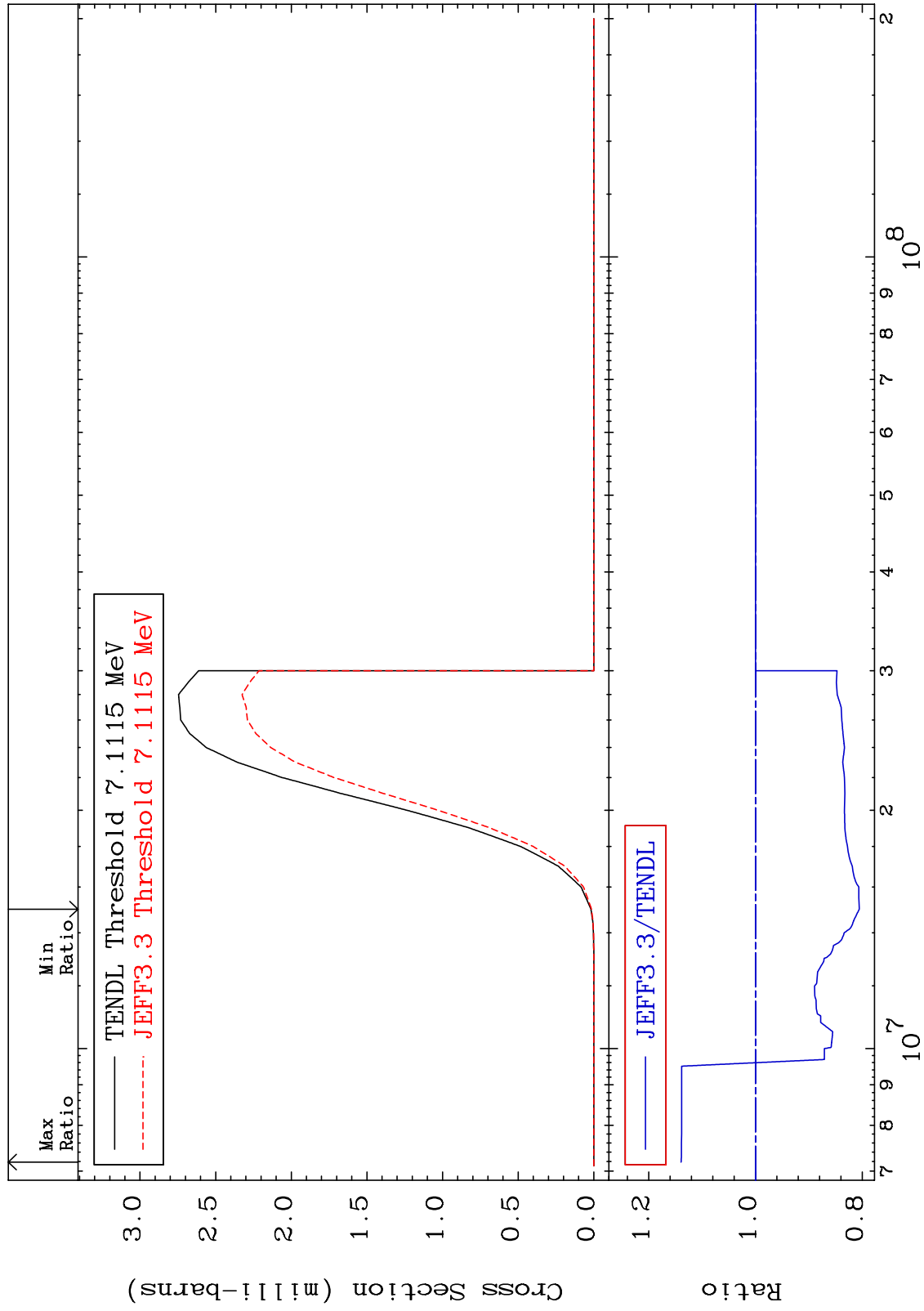


MAT 6243

(n, t): 61-Pm-148g

62-Sm-150

Radionuclide Production Cross Section -19.43 To 13.94 %



85

Incident Energy (eV)

62-Sm-150

MAT 6243

(n, t): 61-Pm-148m3

62-Sm-150

Radionuclide Production Cross Section 0.000 To 21.97 %

