

Program Complot  
(Version 2018-1)

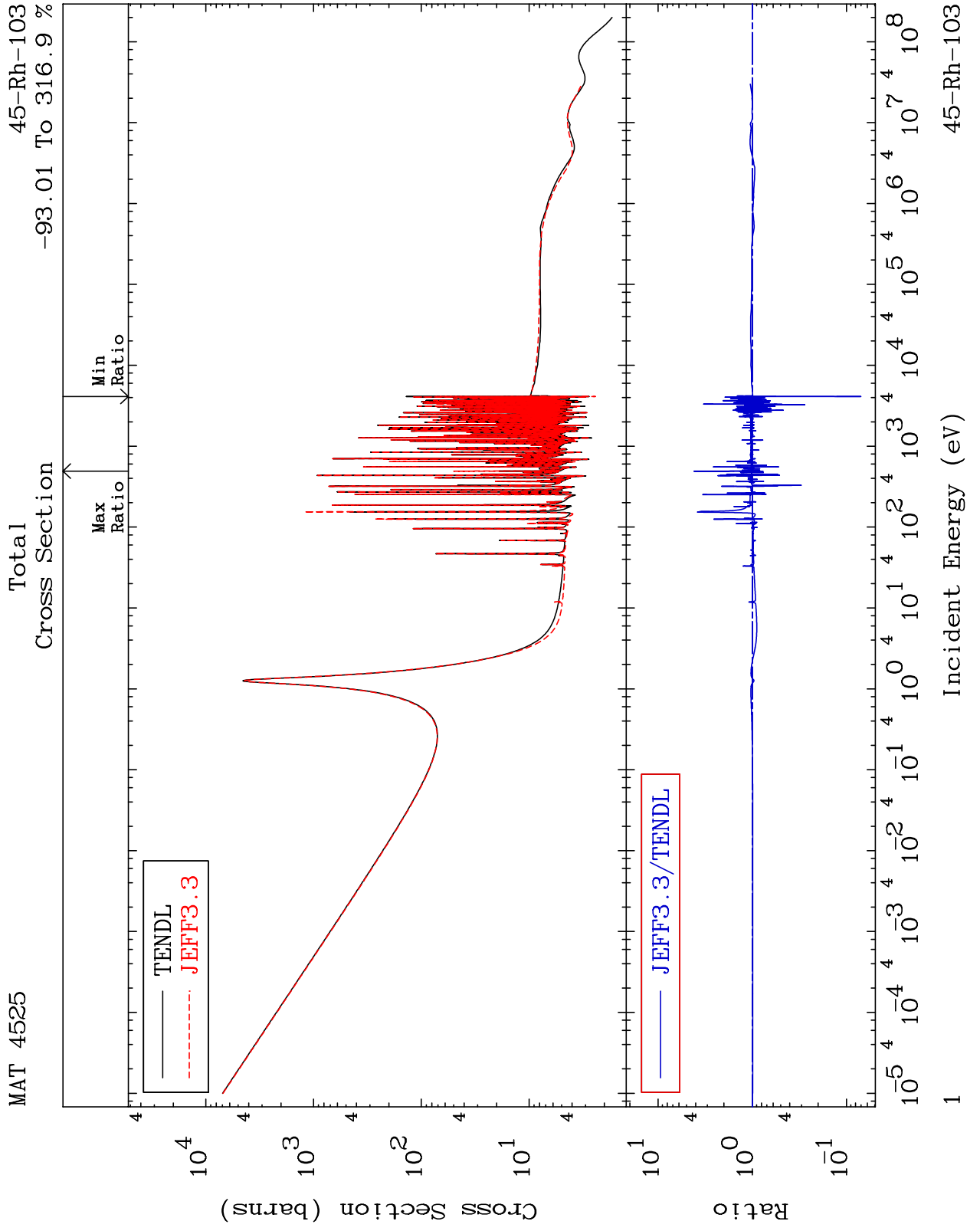
by

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  
Web:redcullen1.net/HOMEPAGE.NEW

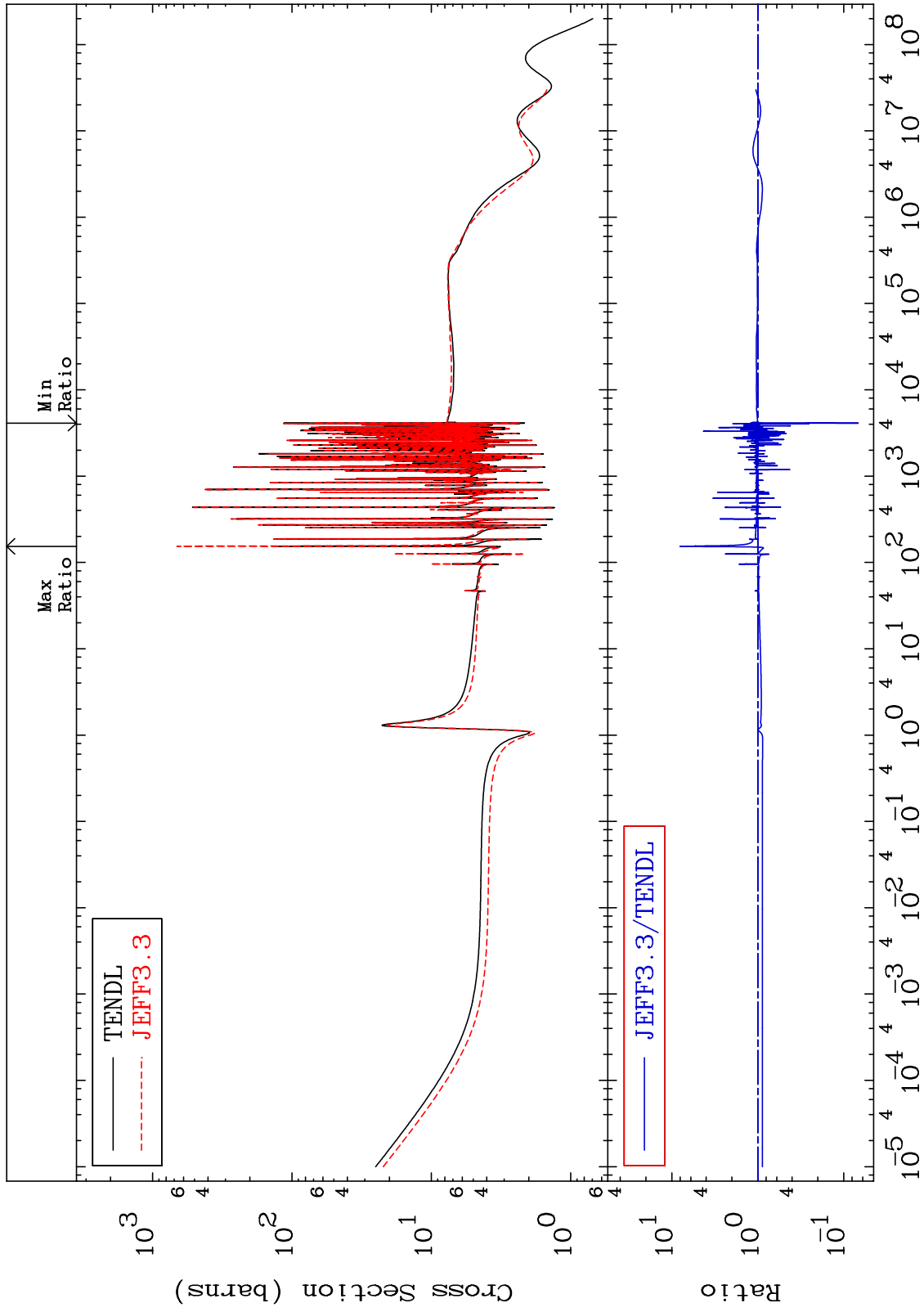
Press Mouse Button to Start



MAT 4525

Elastic  
Cross Section

45-Rh-103  
-93.26 To 703.9 %



Incident Energy (eV)

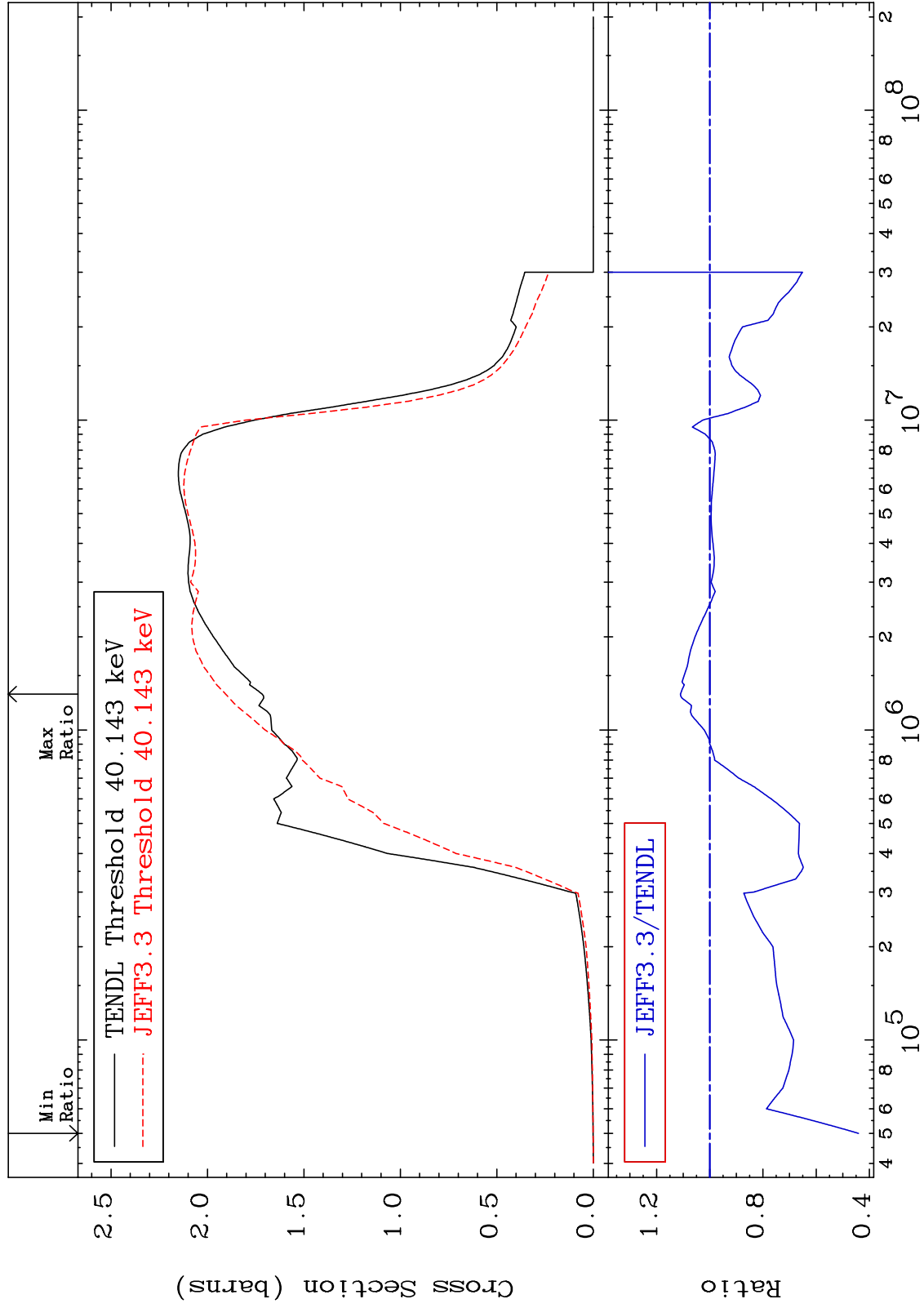
45-Rh-103

2

MAT 4525

Inelastic  
Cross Section

45-Rh-103  
-55.93 To 11.02 %



3

Incident Energy (eV)

45-Rh-103

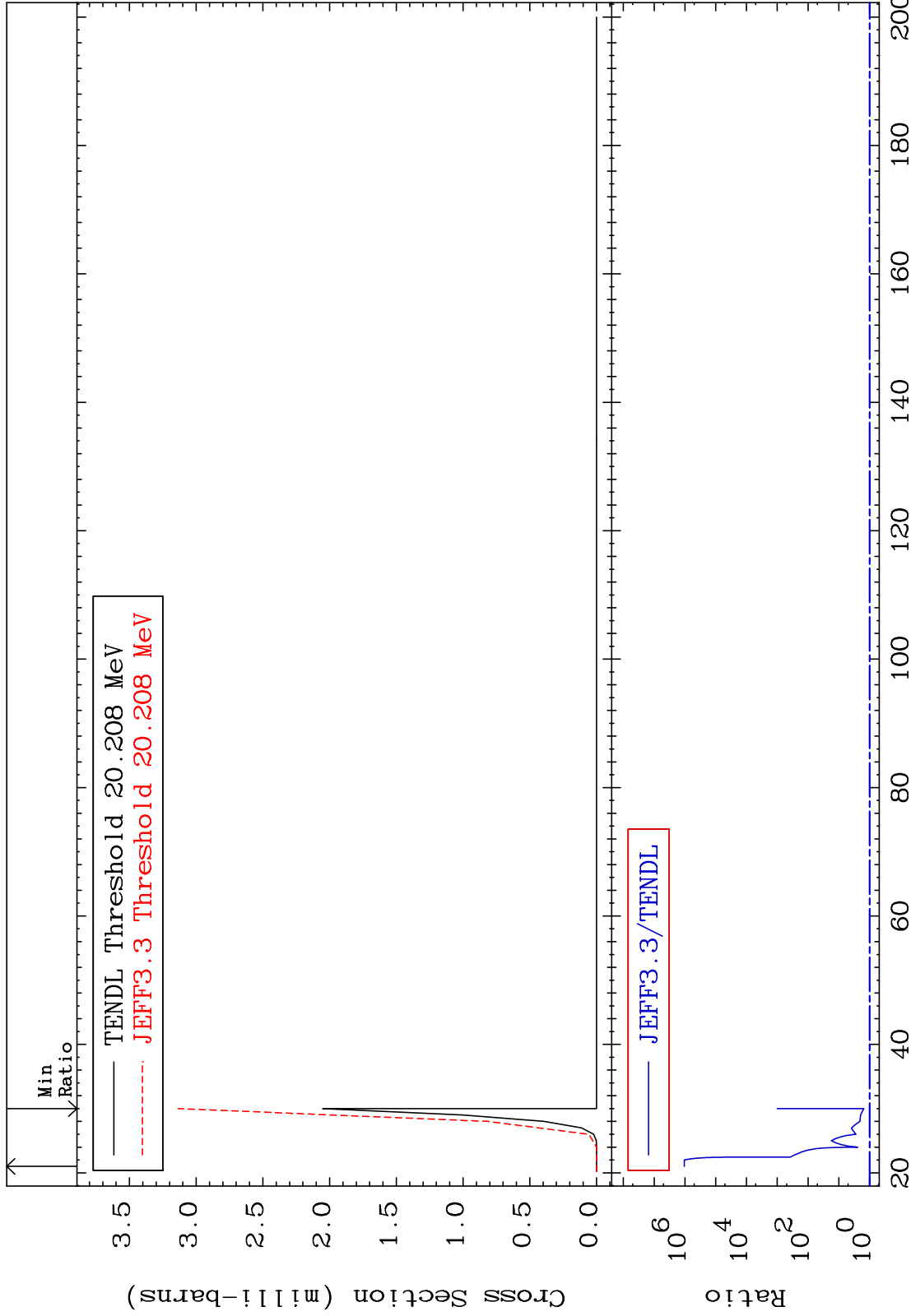
MAT 4525

(n,2n) d

45-Rh-103

Cross Section

52.76 To 9999. %



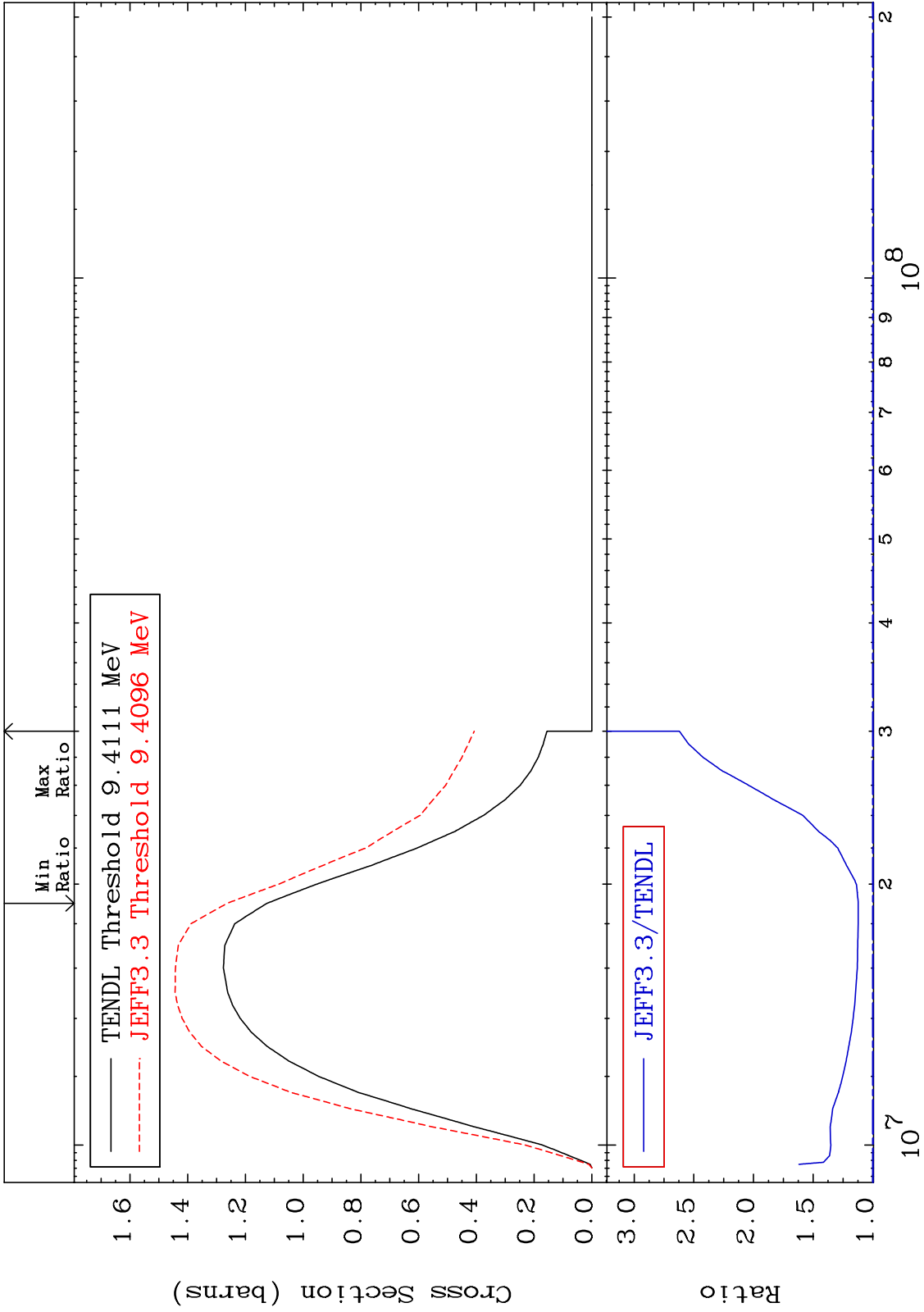
MAT 4525

(n, 2n)

45-Rh-103

12.24 To 162.1 %

Cross Section



Incident Energy (eV)

45-Rh-103

5

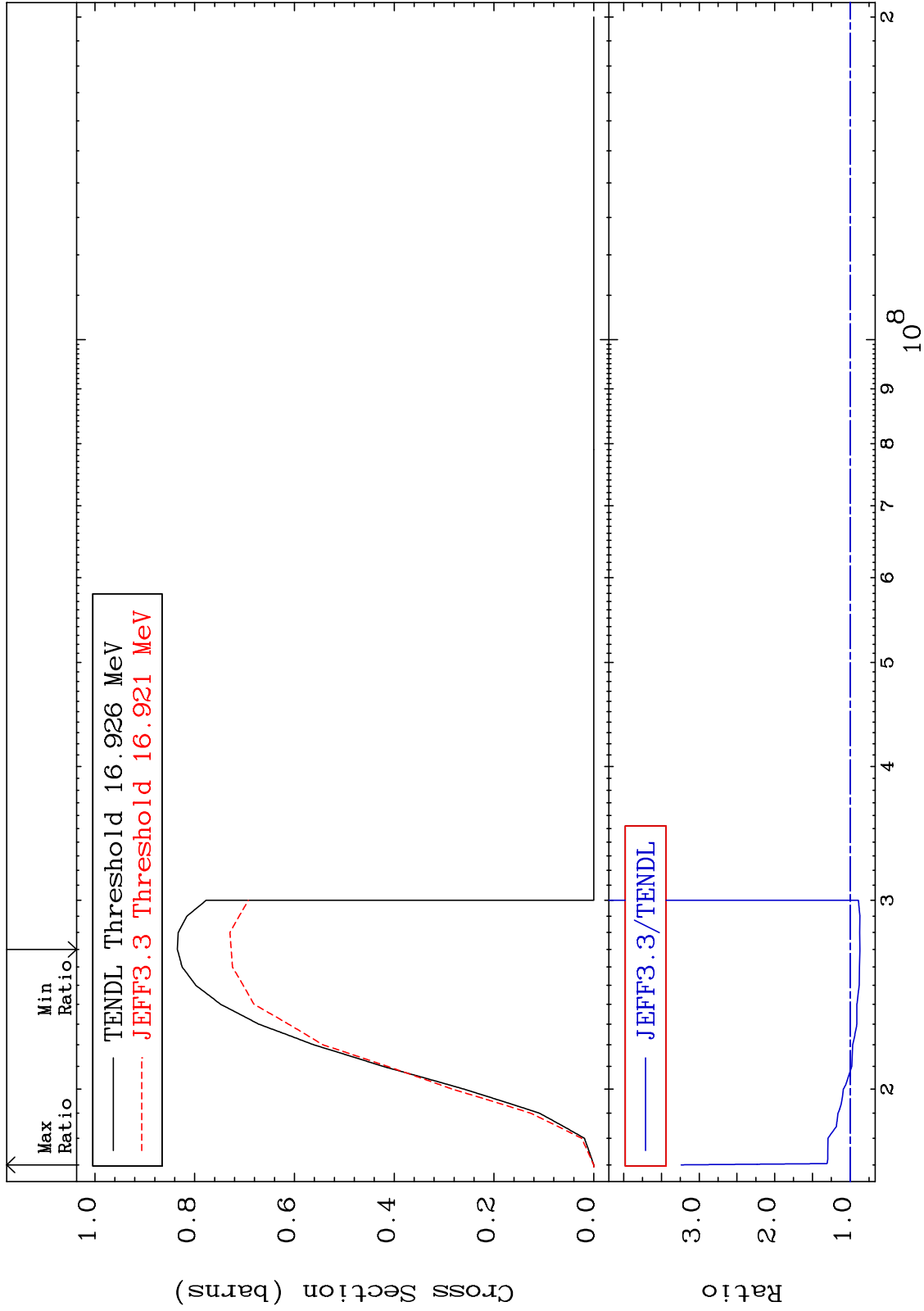
MAT 4525

(n, 3n)

45-Rh-103

Cross Section

-12.93 To 223.8 %



6

Incident Energy (eV)

45-Rh-103

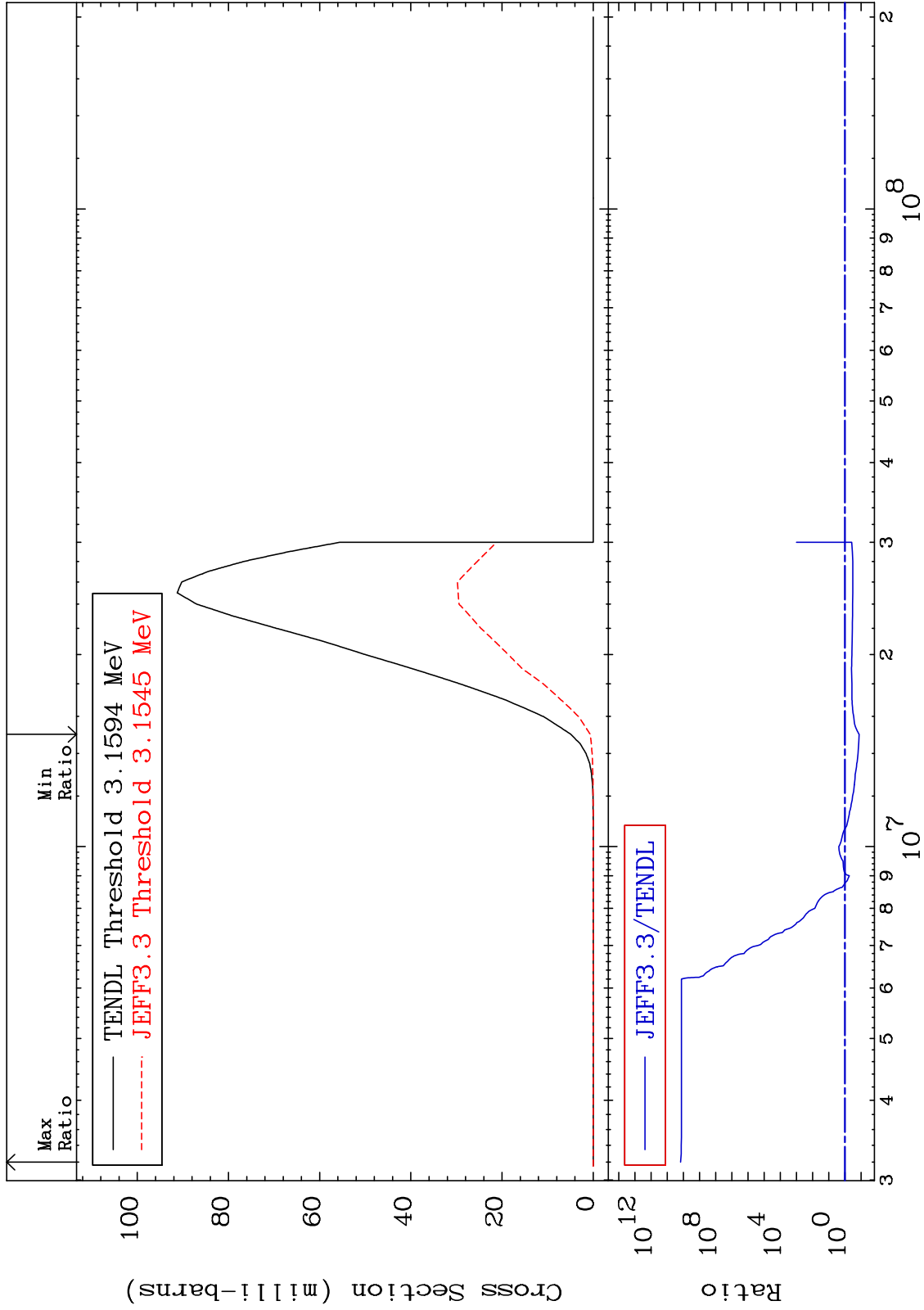
MAT 4525

(n, n')  $\alpha$

45-Rh-103

Cross Section

-86.76 To 9999. %



45-Rh-103

7



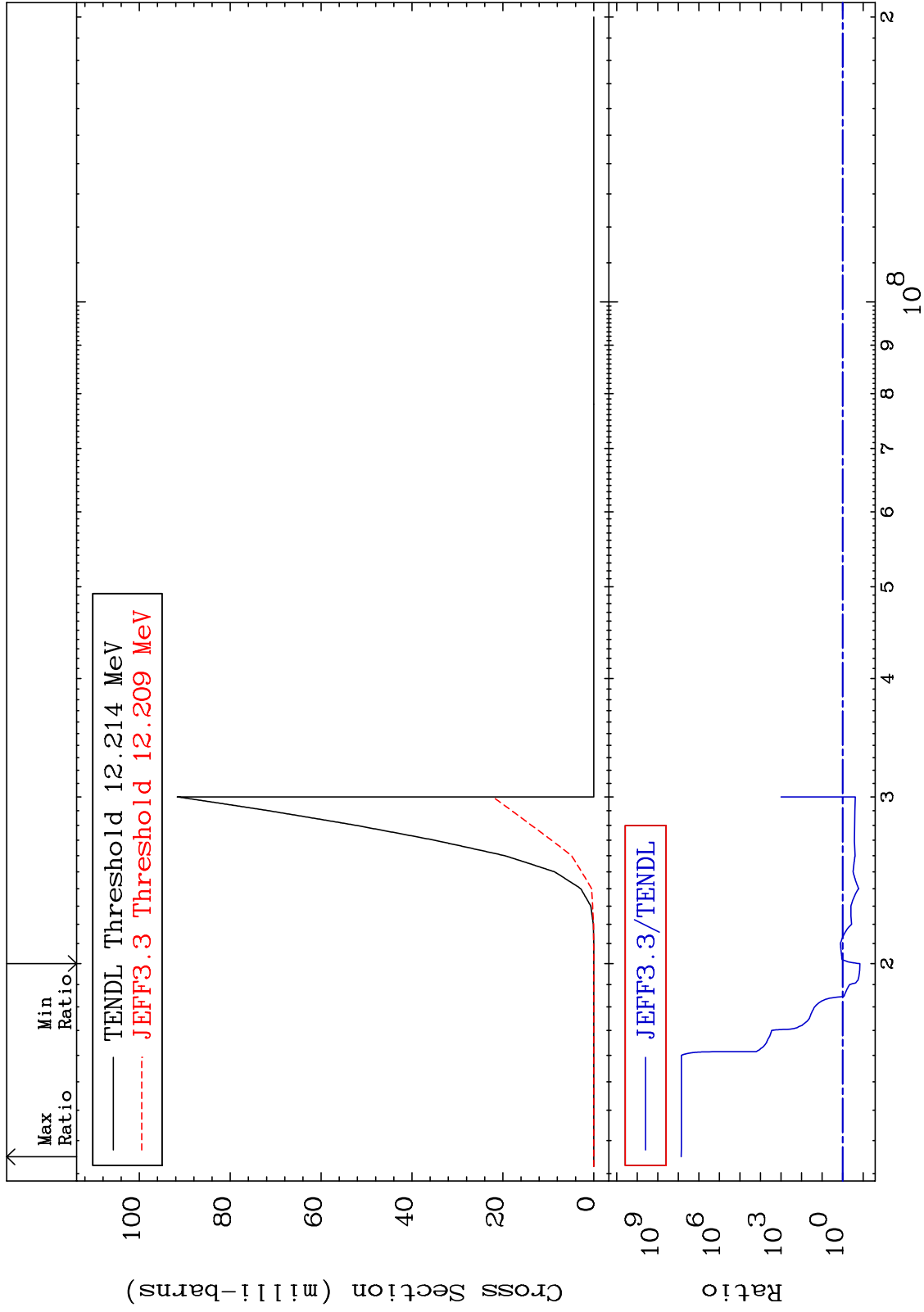
MAT 4525

(n,2n)  $\alpha$

45-Rh-103

Cross Section

-85.68 To 9999. %



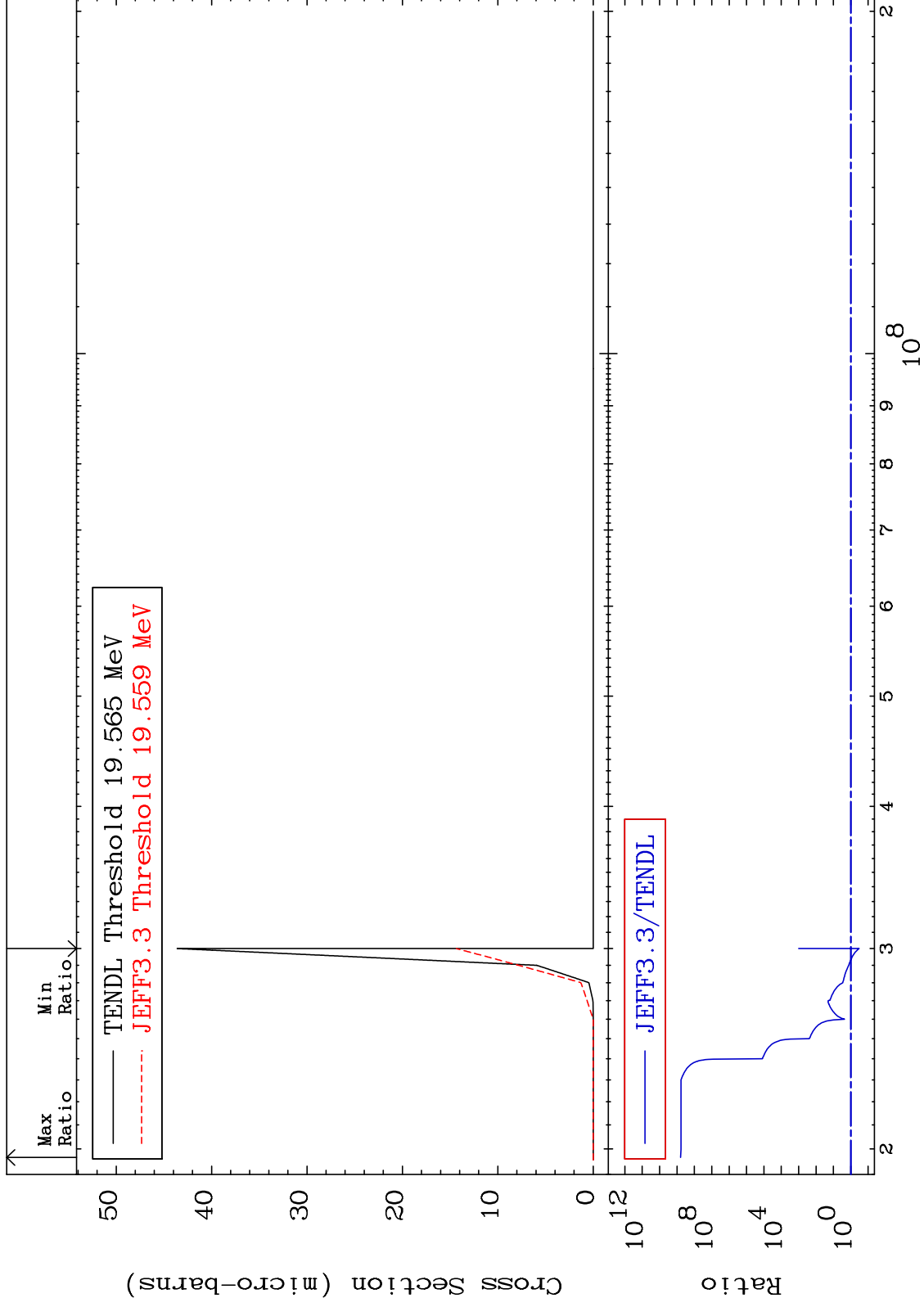
MAT 4525

(n,3n)  $\alpha$

45-Rh-103

-67.10 To 9999. %

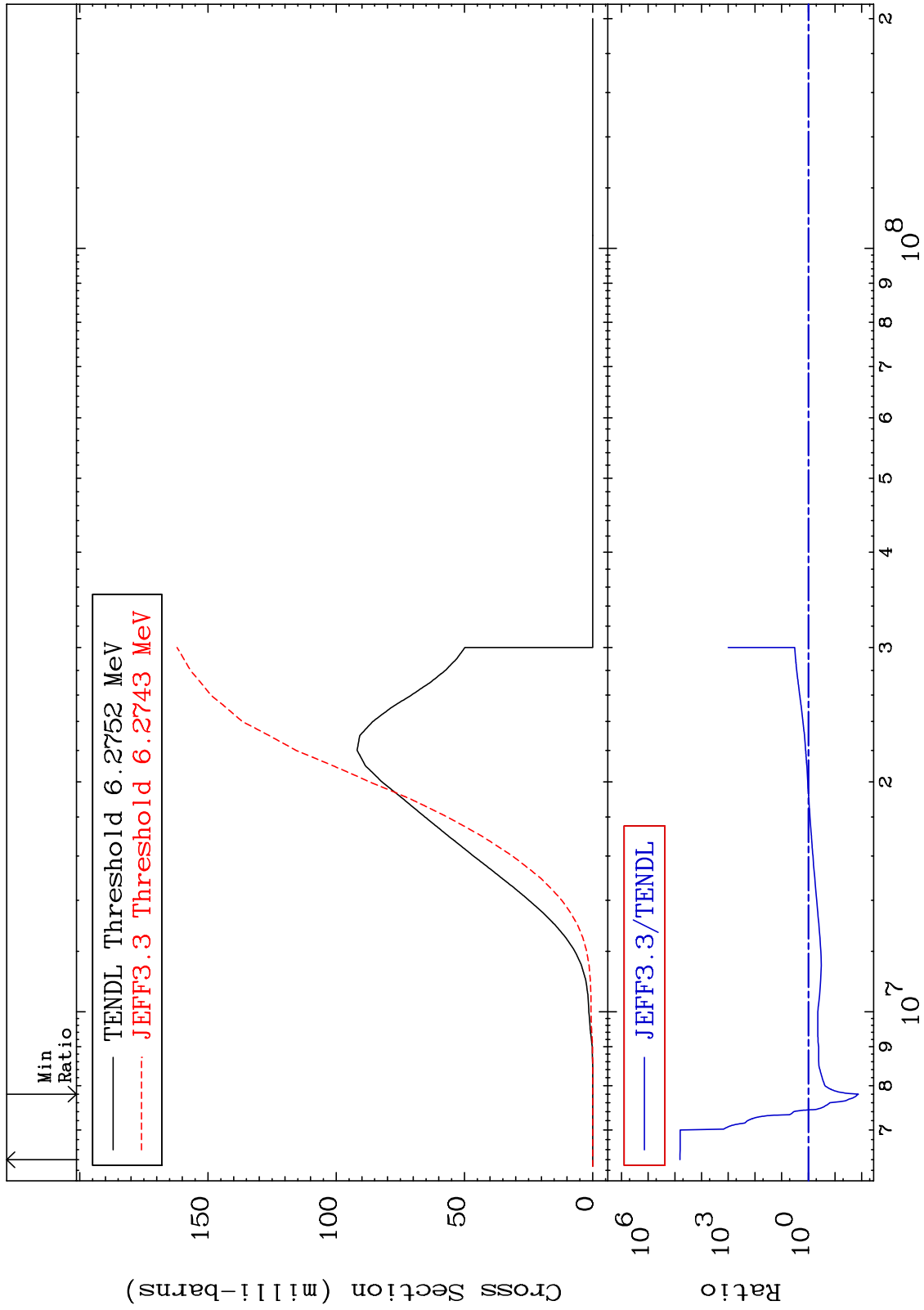
Cross Section



MAT 4525

(n,n') p  
Cross Section

45-Rh-103  
-98.67 To 9999. %



10

Incident Energy (eV)

45-Rh-103

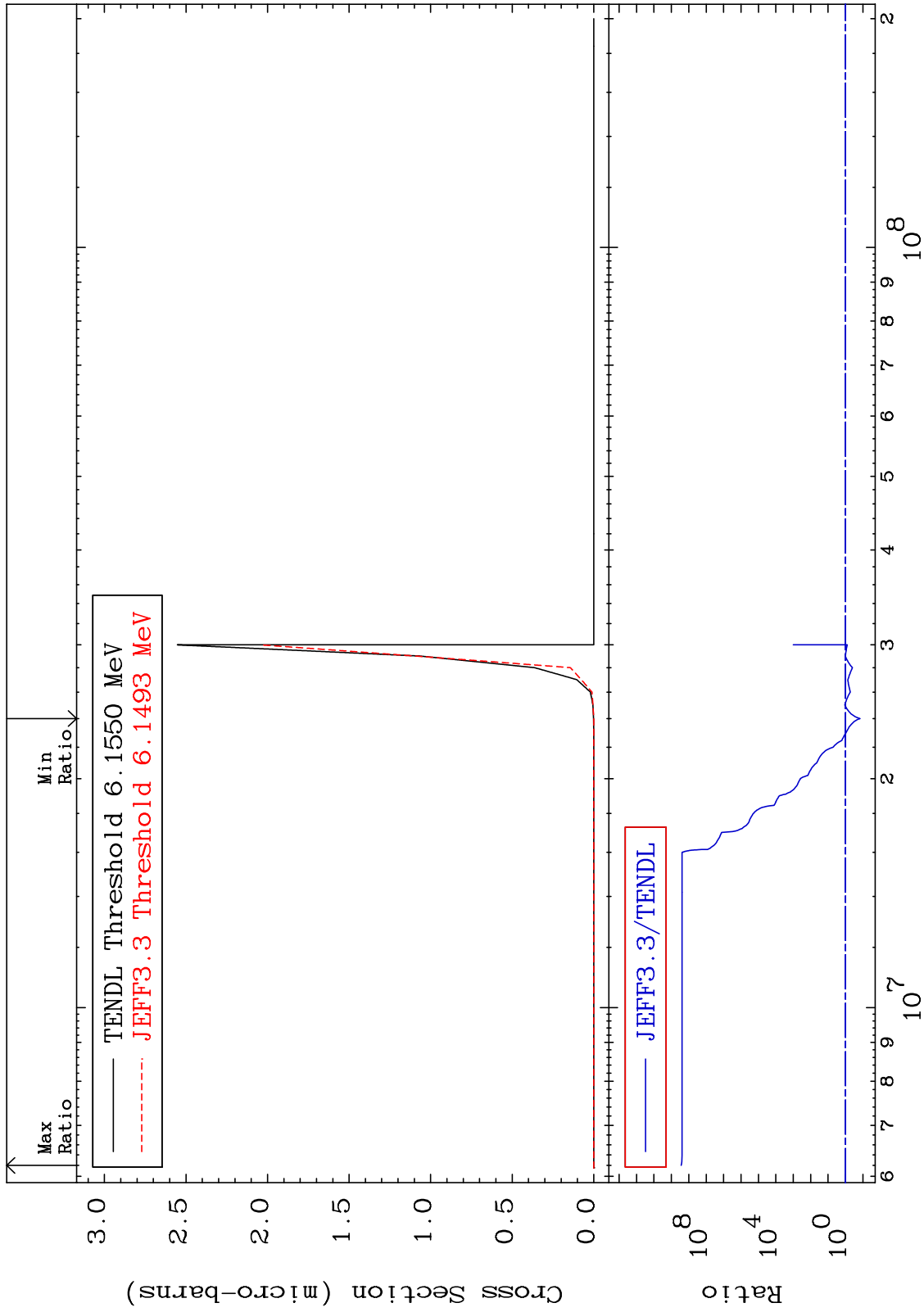
MAT 4525

(n, n')  $2\alpha$

45-Rh-103

Cross Section

-85.18 To 9999. %



45-Rh-103

Incident Energy (eV)

11

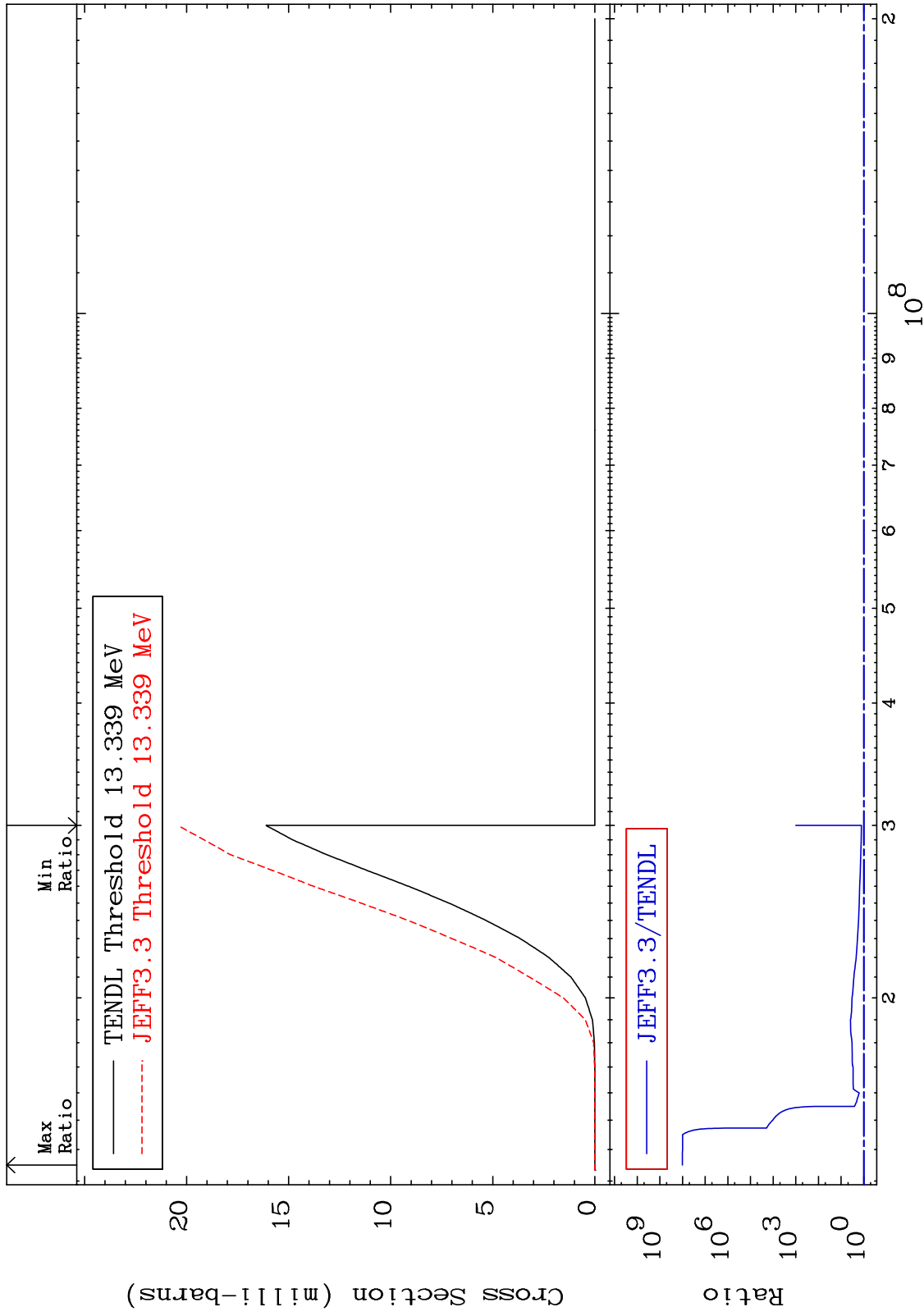
MAT 4525

(n,n') d

45-Rh-103

26.85 To 9999. %

Cross Section



MAT 4525

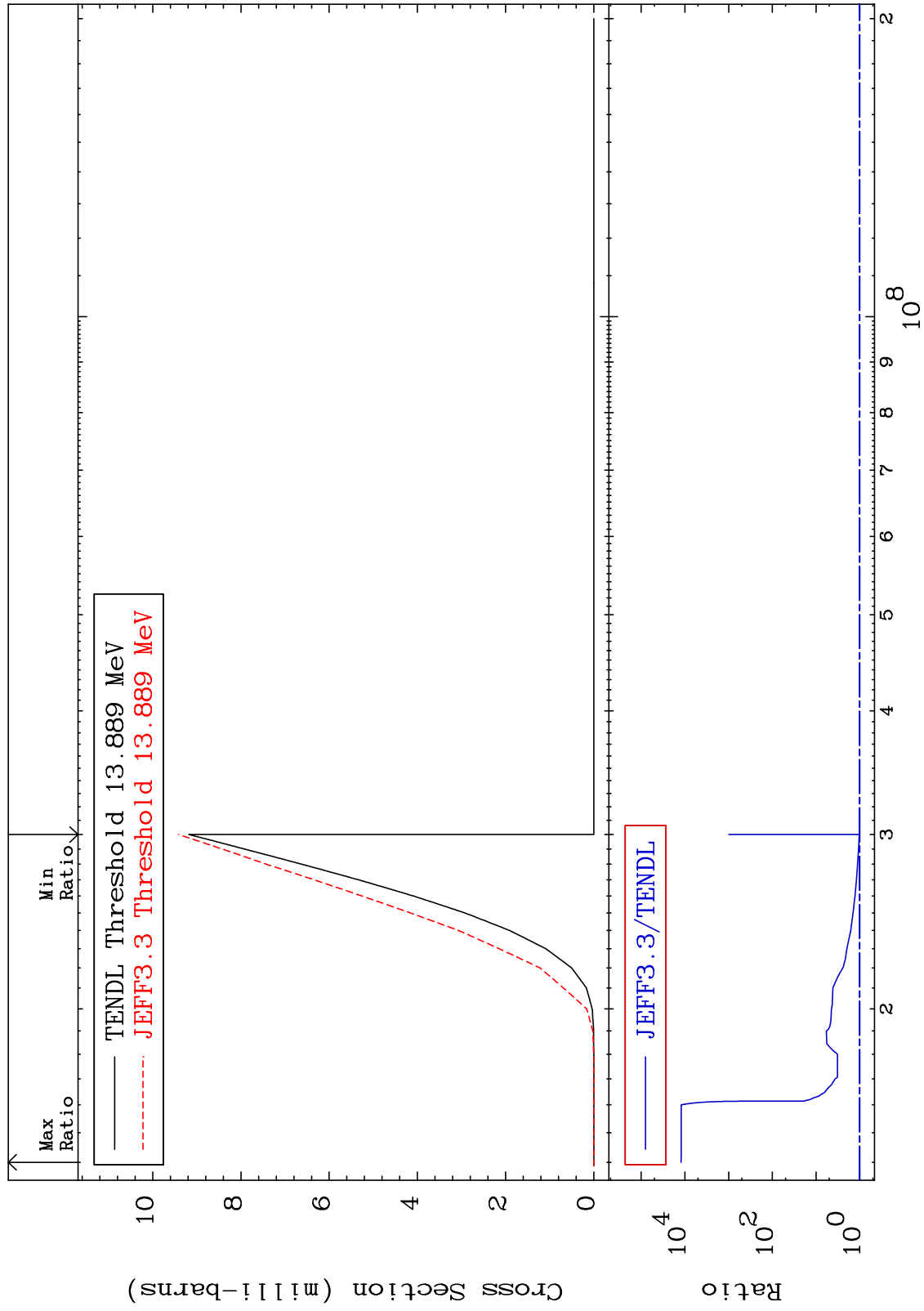
(n, n') t

45-Rh-103

Cross Section

2.537

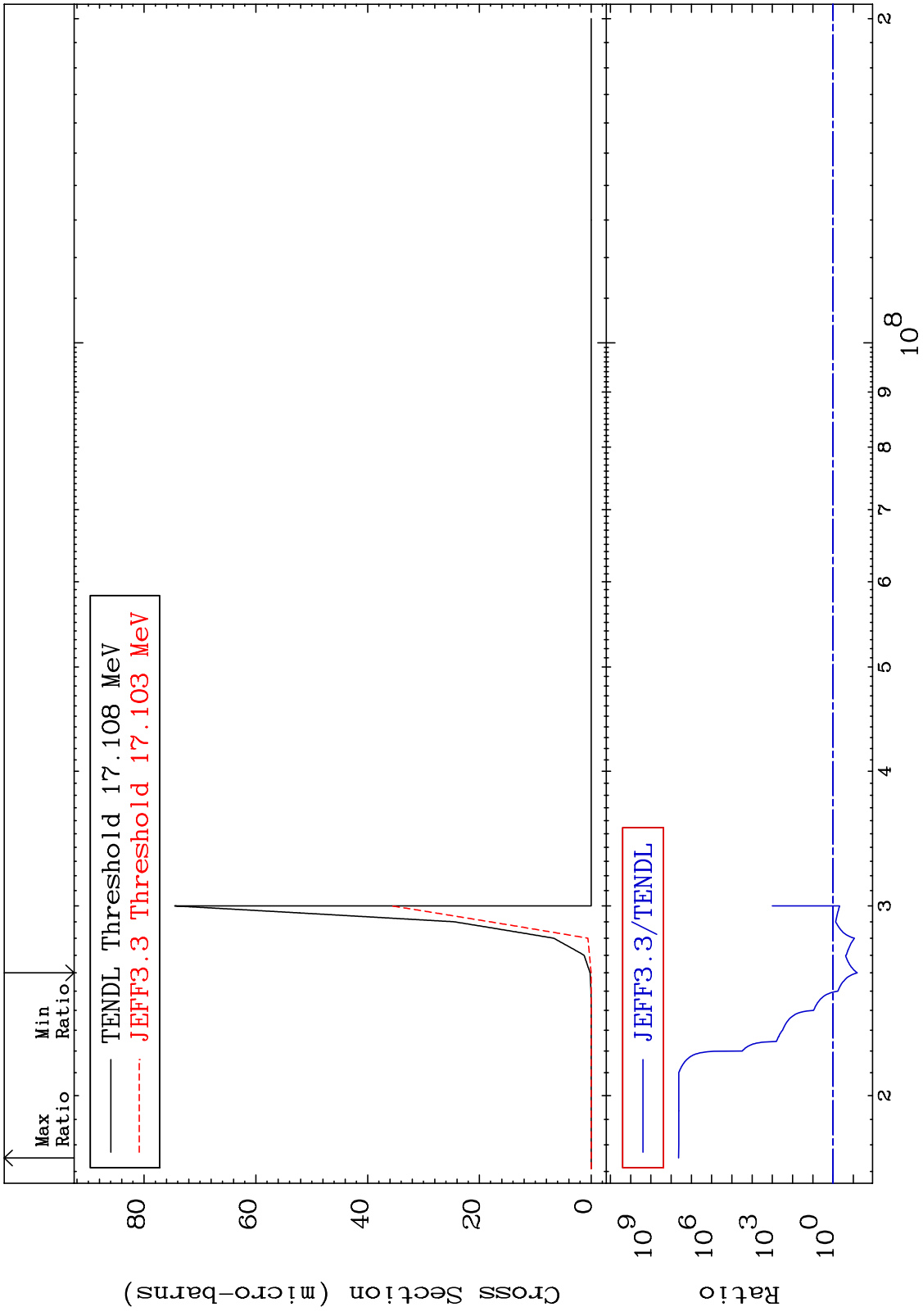
To 9999. %



MAT 4525

(n, n') He-3  
Cross Section

45-Rh-103  
-93.65 To 9999. %



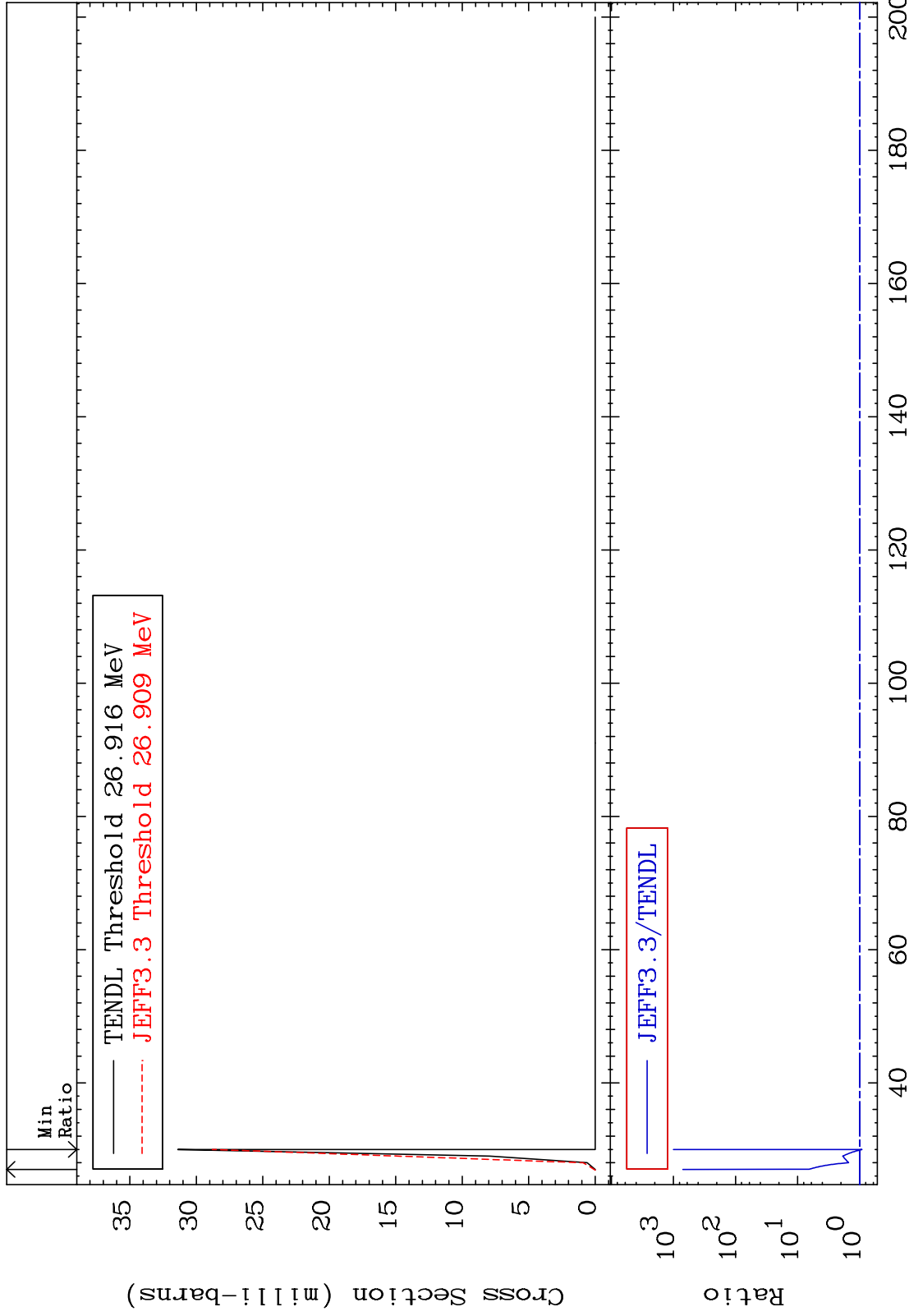
MAT 4525

(n, 4n)

45-Rh-103

Cross Section

-8.297 To 9999. %

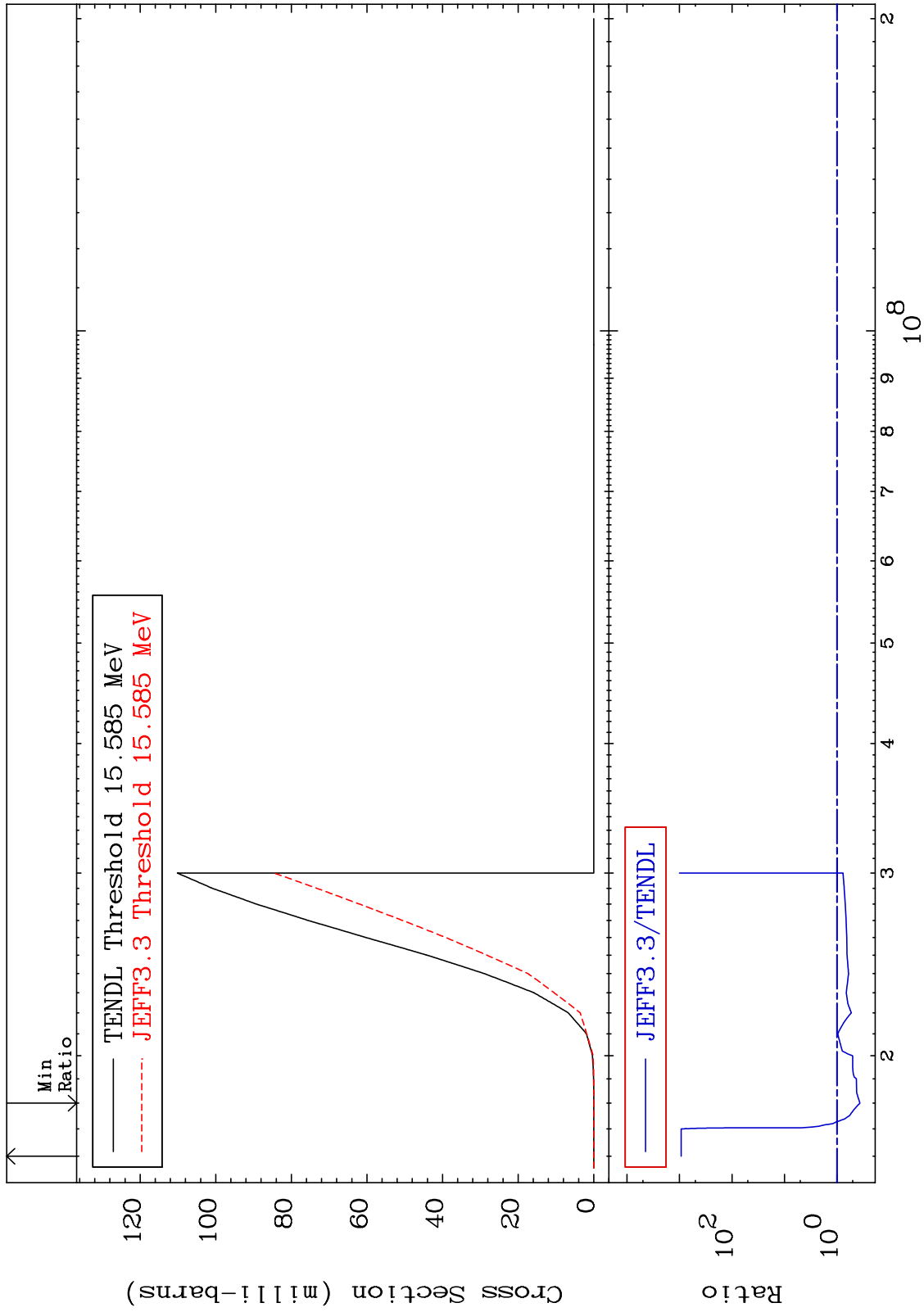




MAT 4525

(n,2n) p  
Cross Section

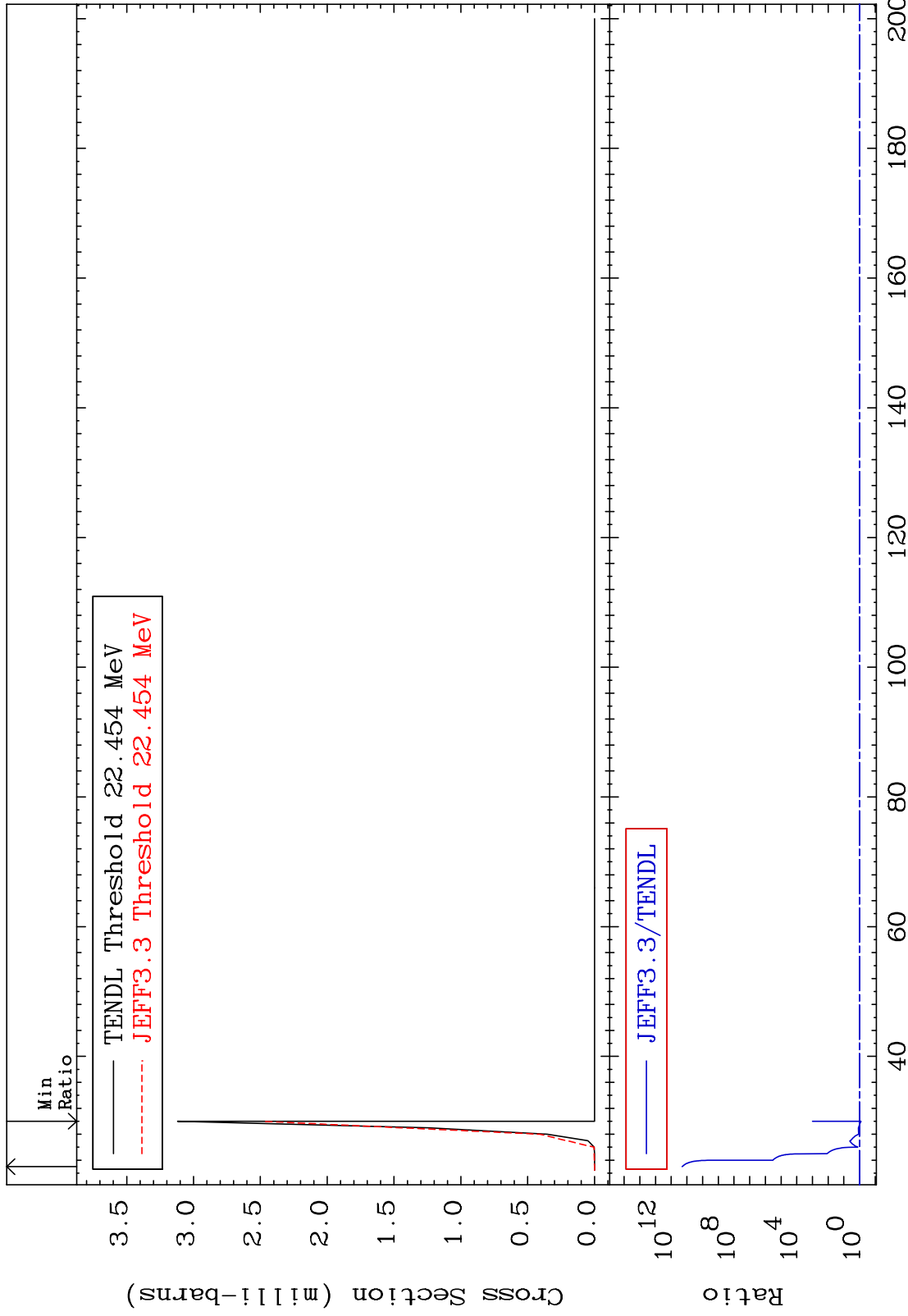
45-Rh-103  
-63.57 To 9999. %



MAT 4525

(n,3n) p  
Cross Section

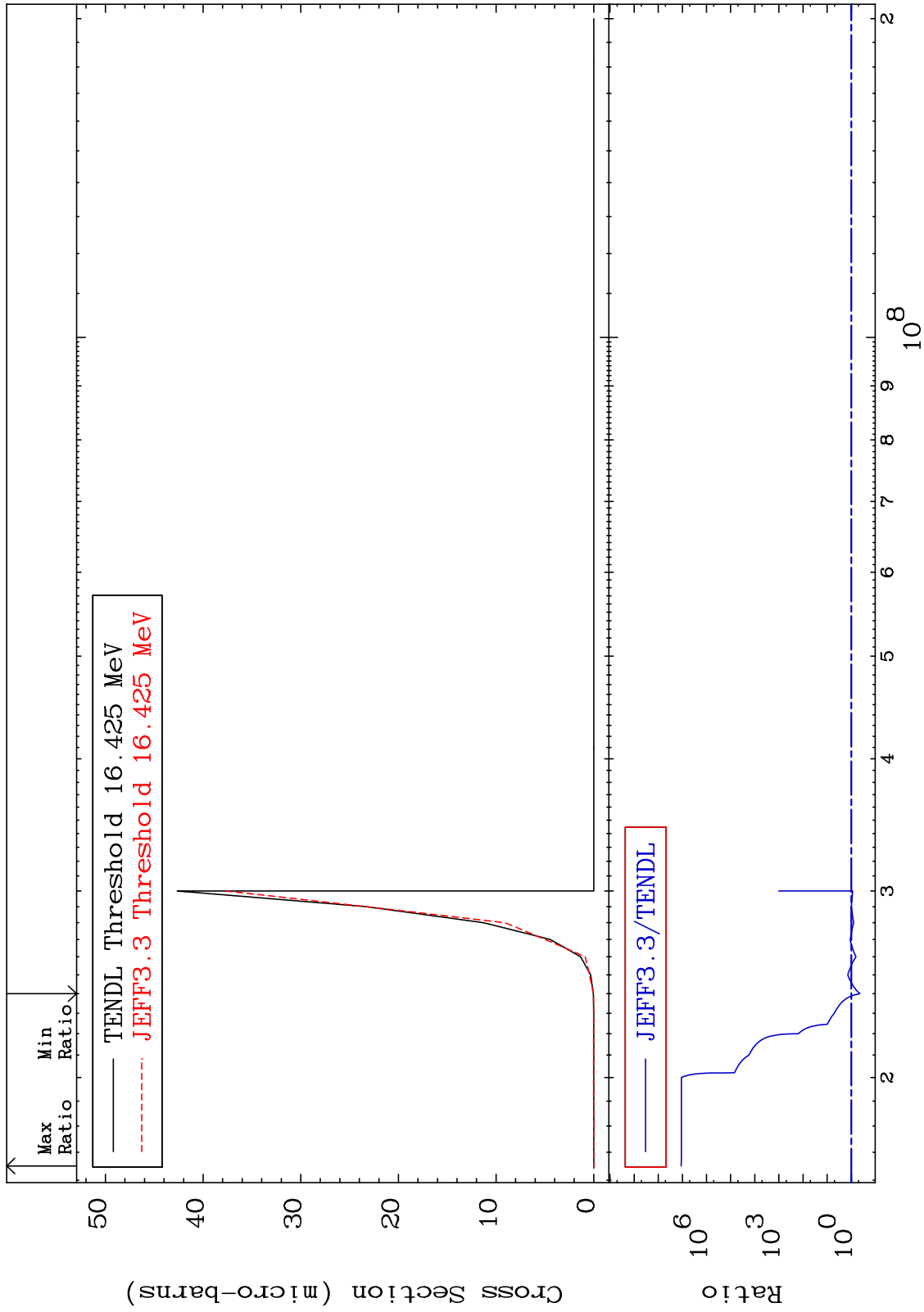
45-Rh-103  
-20.09 To 9999. %



MAT 4525

(n,2n) p  
Cross Section

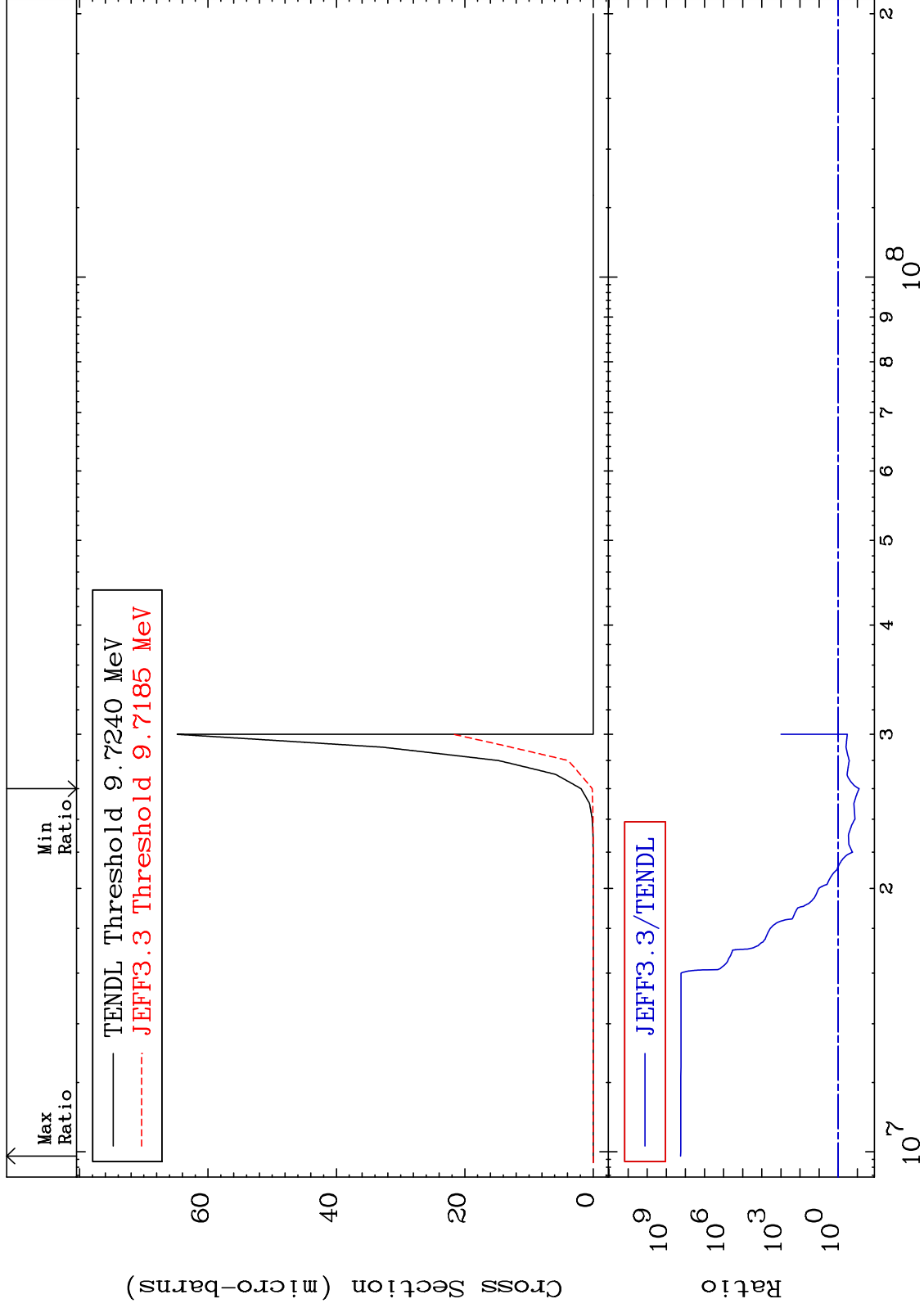
45-Rh-103  
-55.93 To 9999. %



MAT 4525

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

45-Rh-103  
-92.03 To 9999. %



45-Rh-103

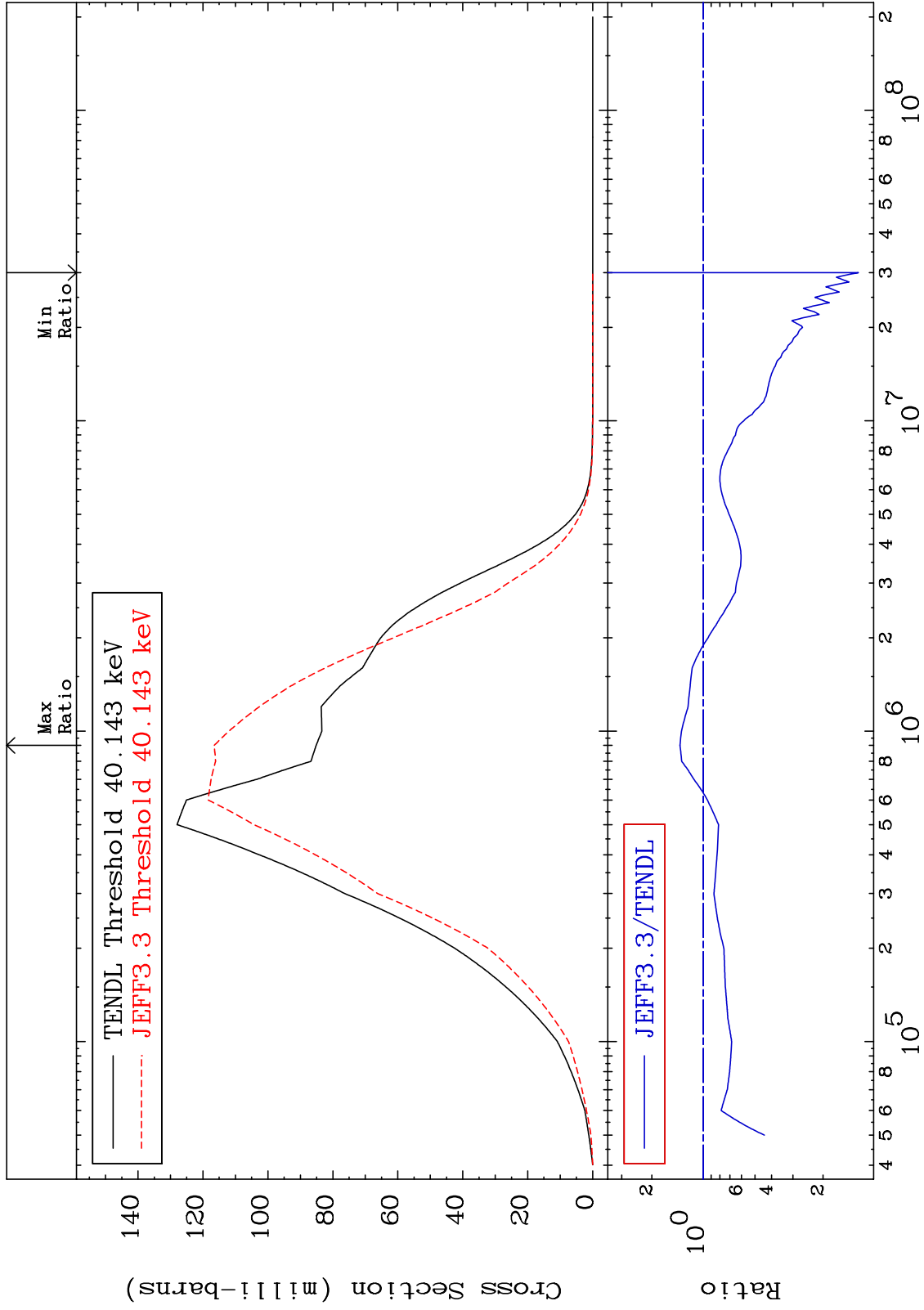
Incident Energy (eV)

19

MAT 4525

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

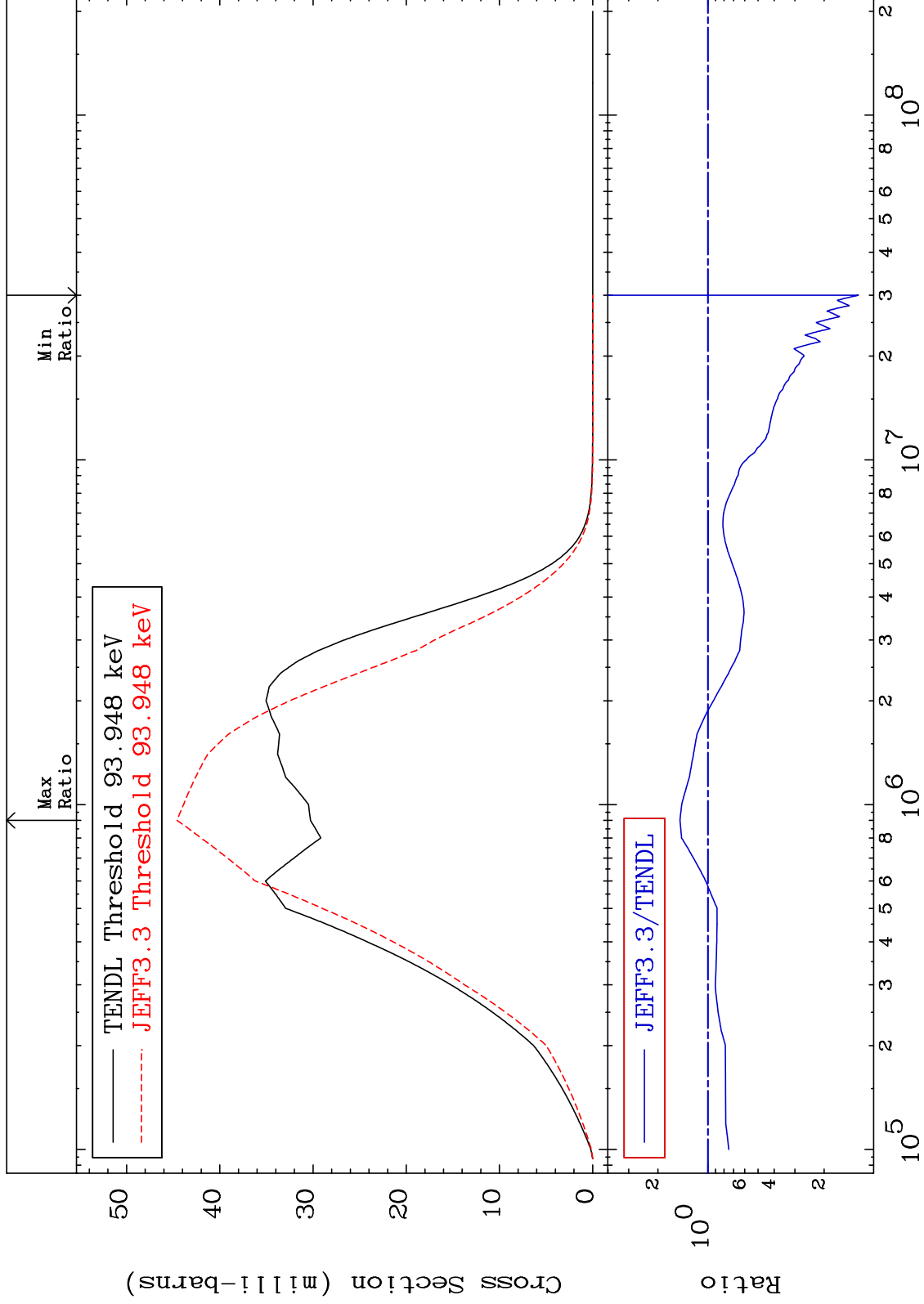
45-Rh-103  
-87.56 To 36.85 %



MAT 4525

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

45-Rh-103  
-87.56 To 47.24 %



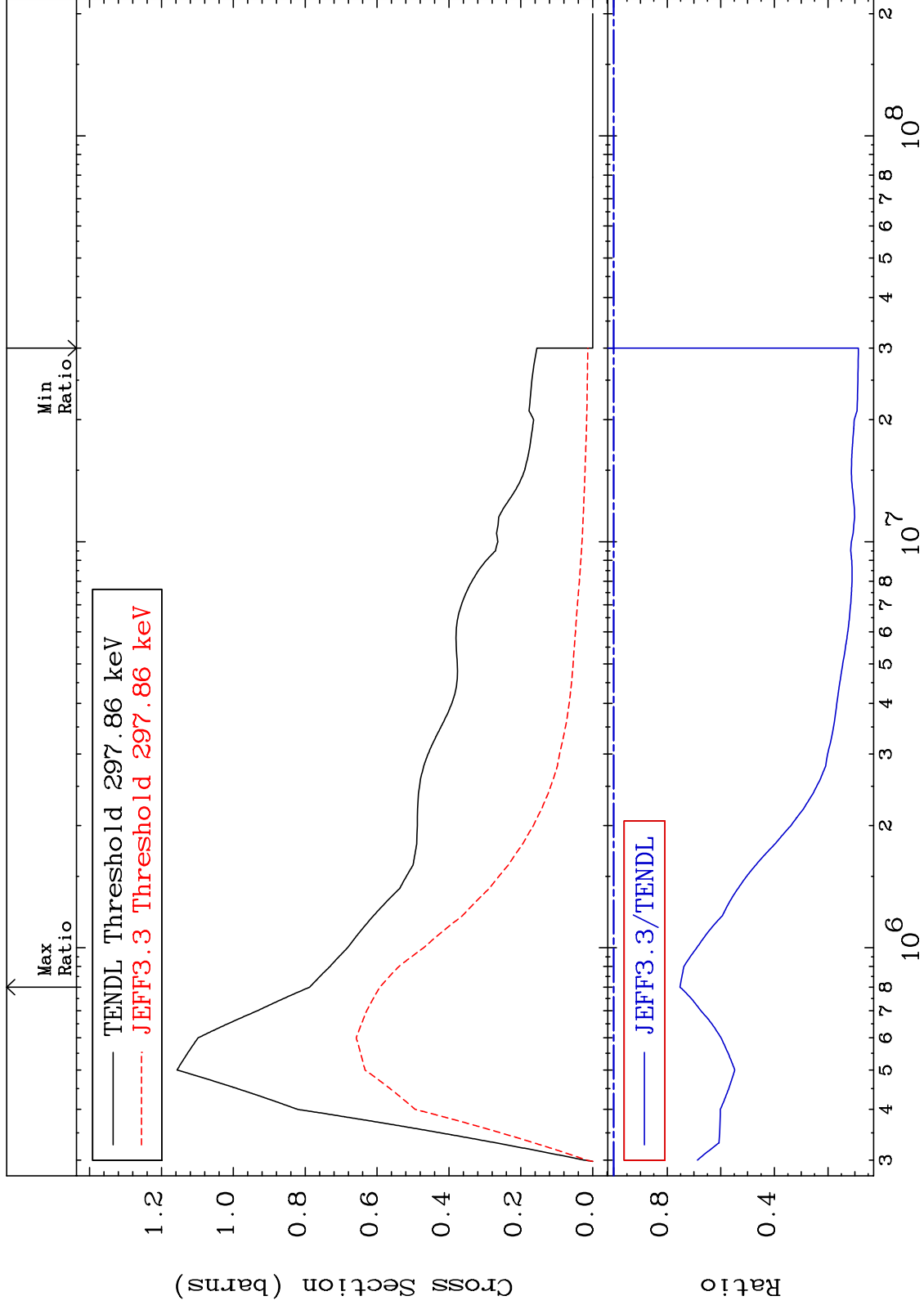
21

45-Rh-103

MAT 4525

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

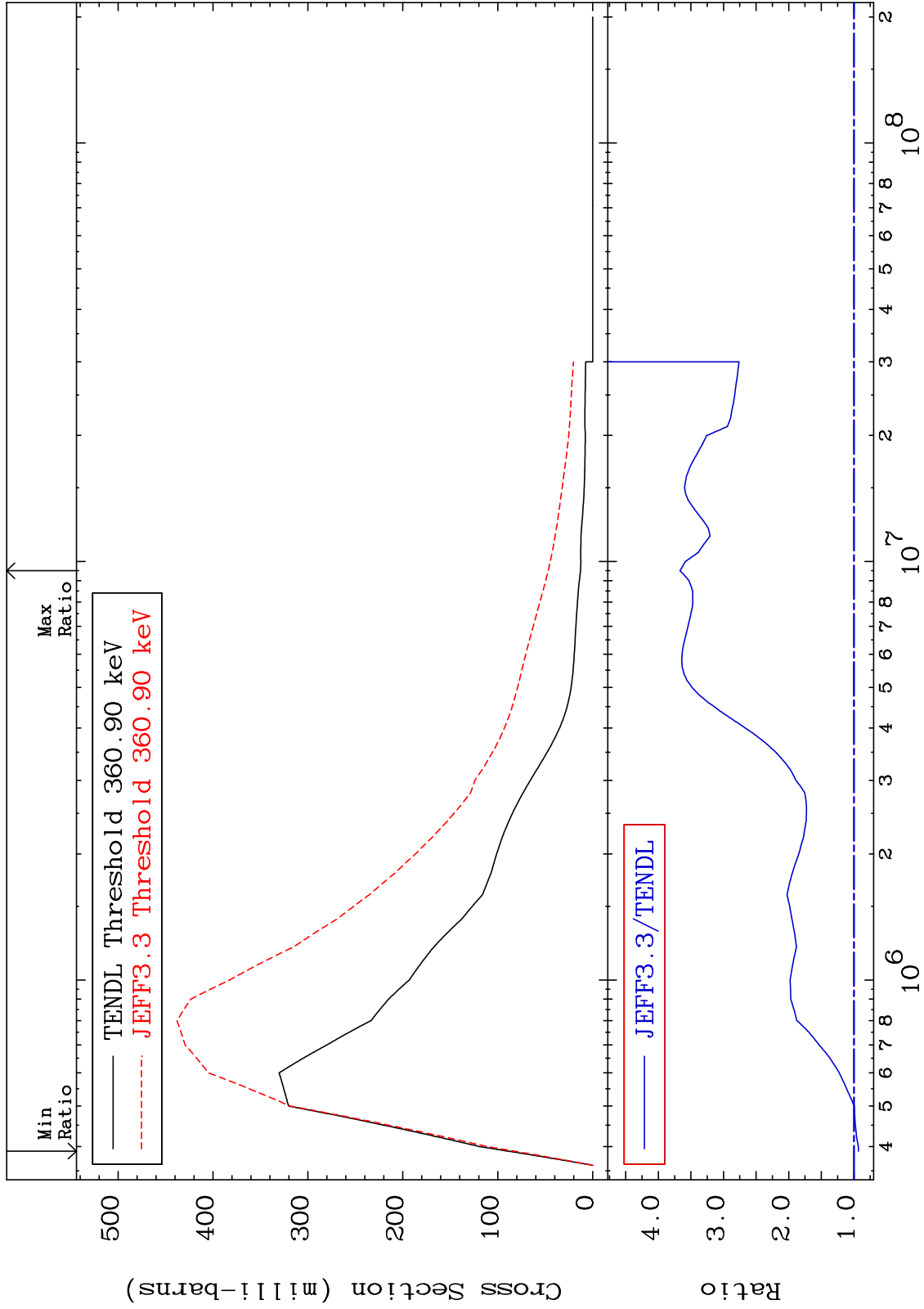
45-Rh-103  
-91.34 To -24.78%



MAT 4525

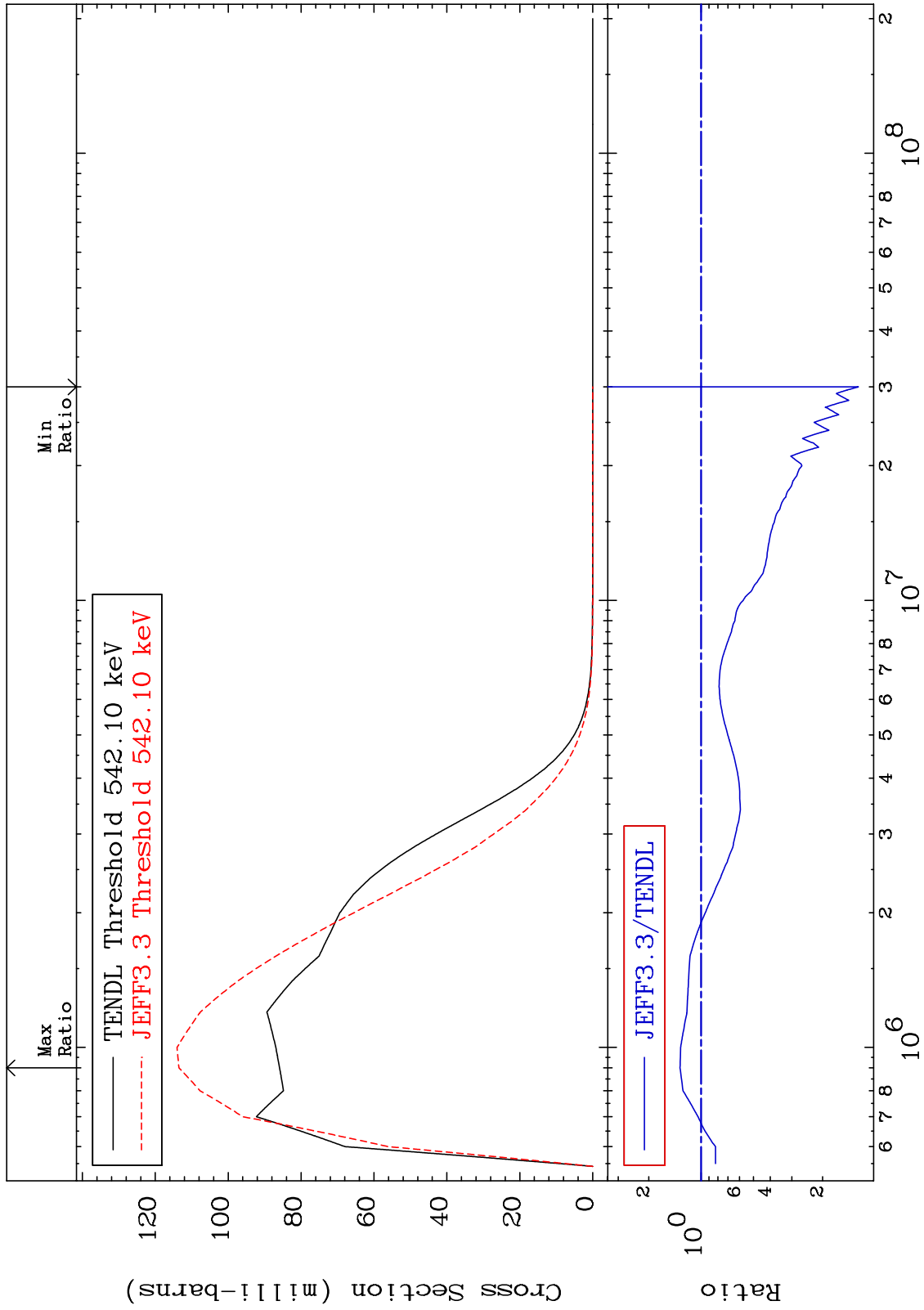
MT= 54 (n,n') Level  
Cross Section

45-Rh-103  
-6.908 To 266.7 %

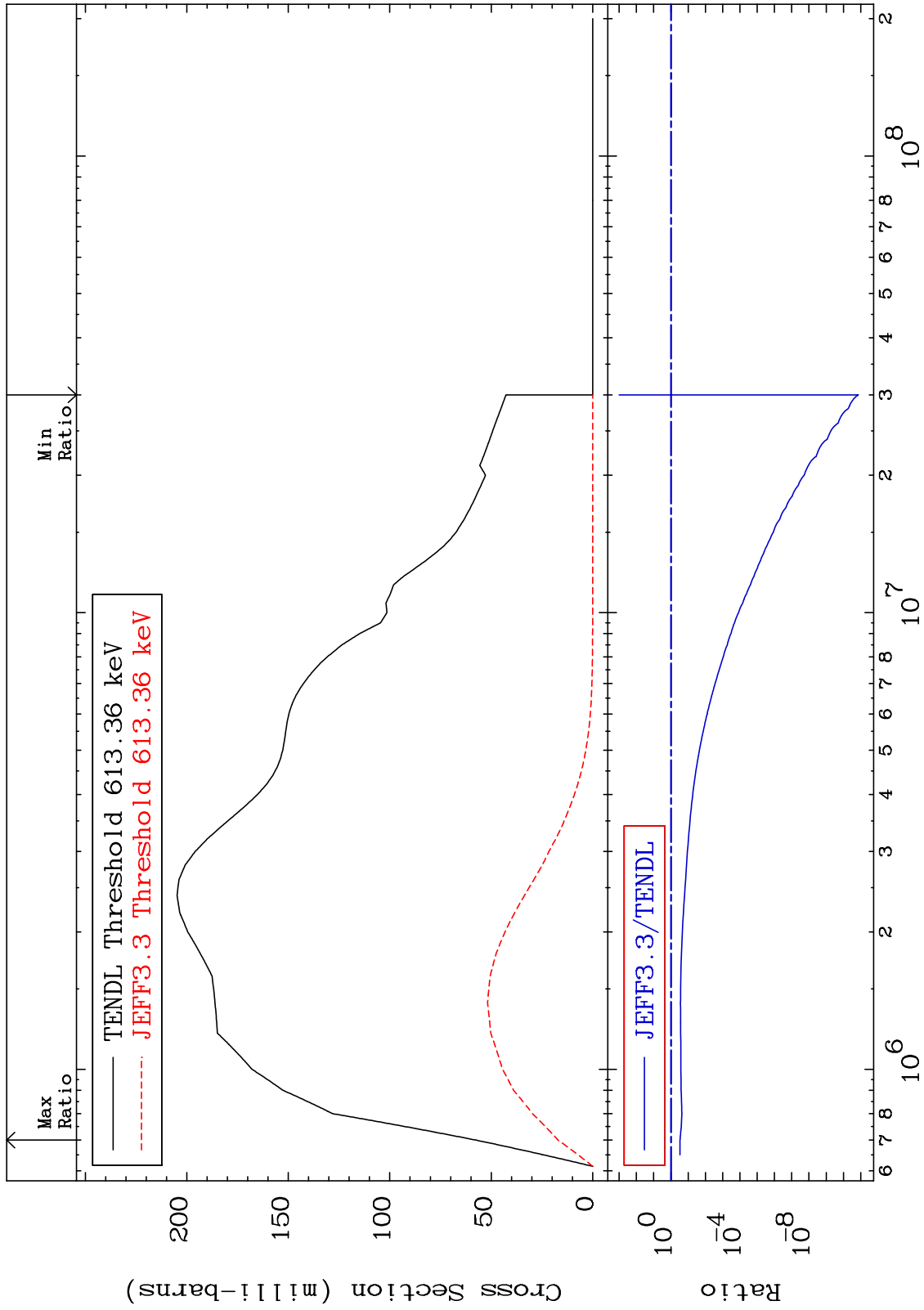




MAT 4525 MT= 55 (n,n') Level Cross Section 45-Rh-103  
 -87.57 To 32.13 %



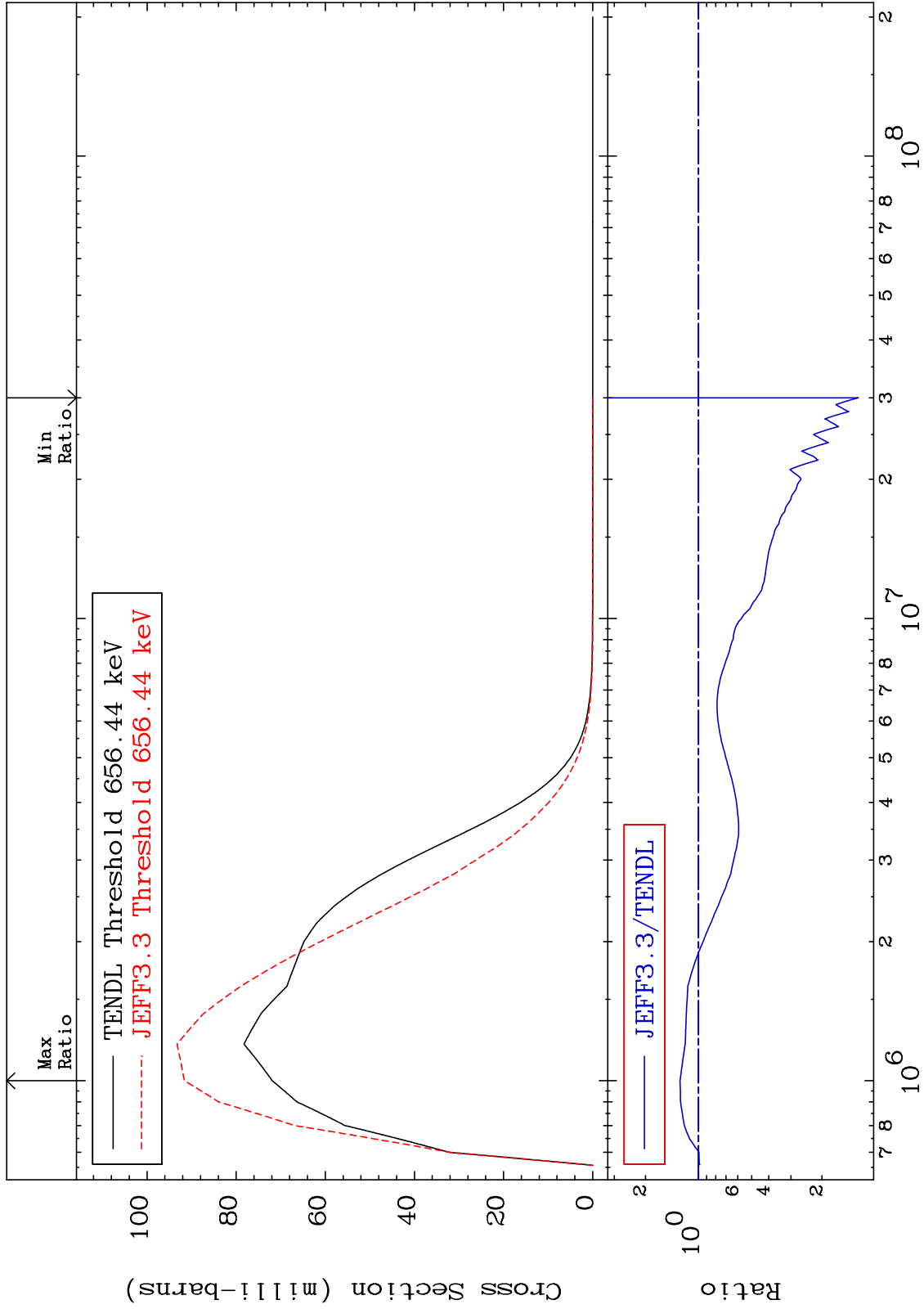
MAT 4525      MT= 56 (n,n') Level      45-Rh-103  
 Cross Section      -100.0 To -70.33%



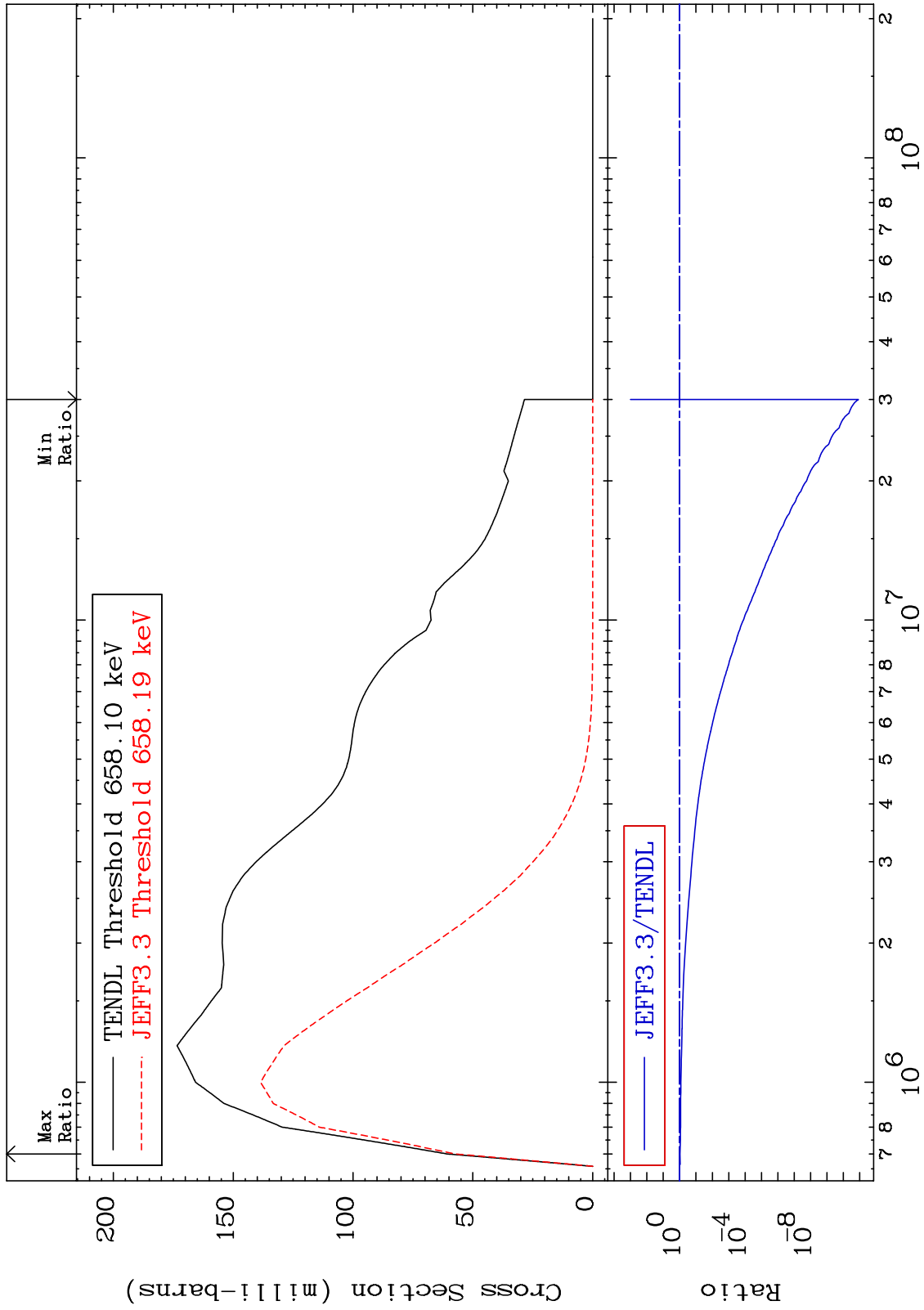
MAT 4525

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

45-Rh-103  
-87.57 To 27.41 %



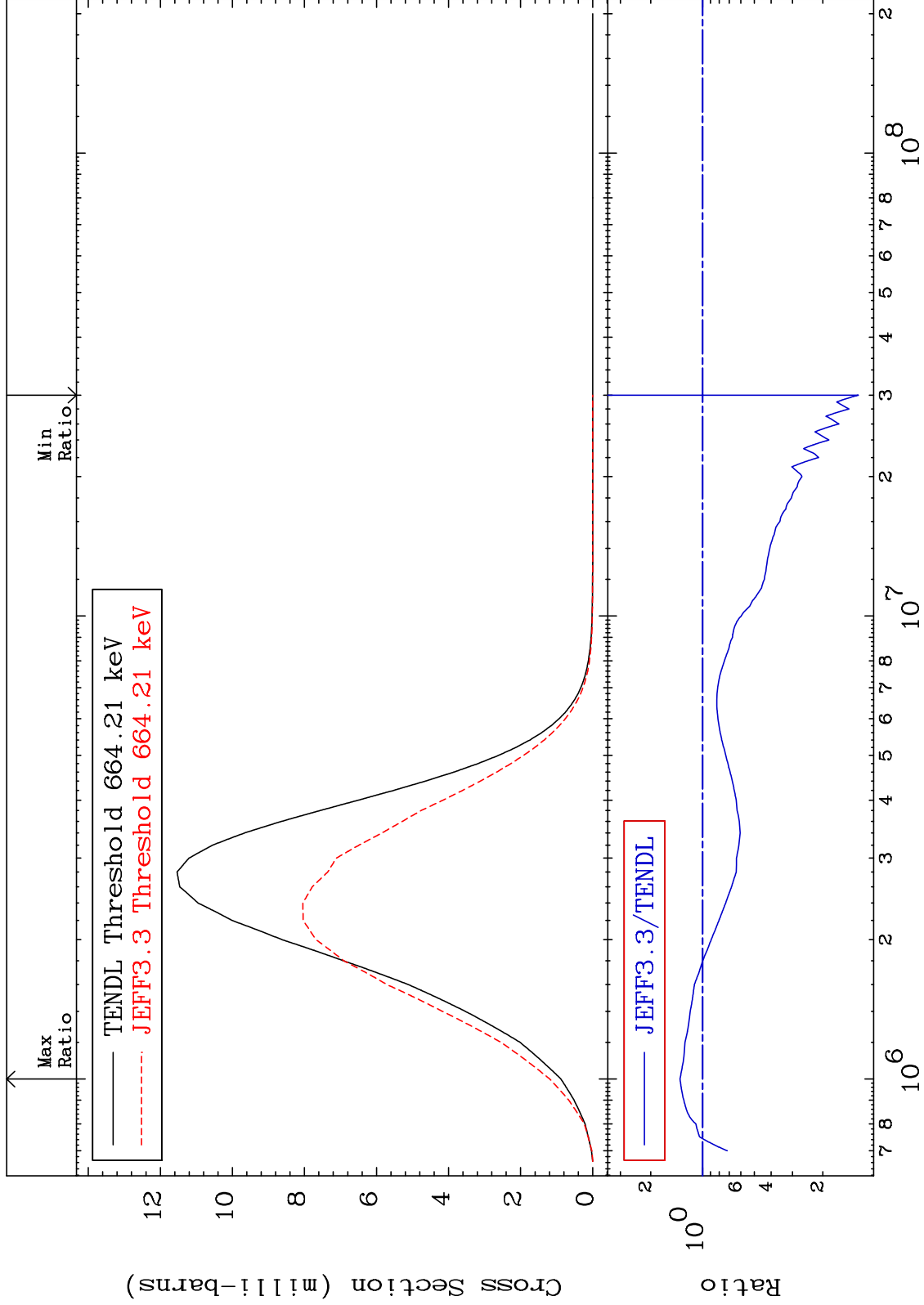
MAT 4525      MT= 58 (n,n') Level Cross Section      45-Rh-103  
 -100.0 To -5.681%



MAT 4525

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

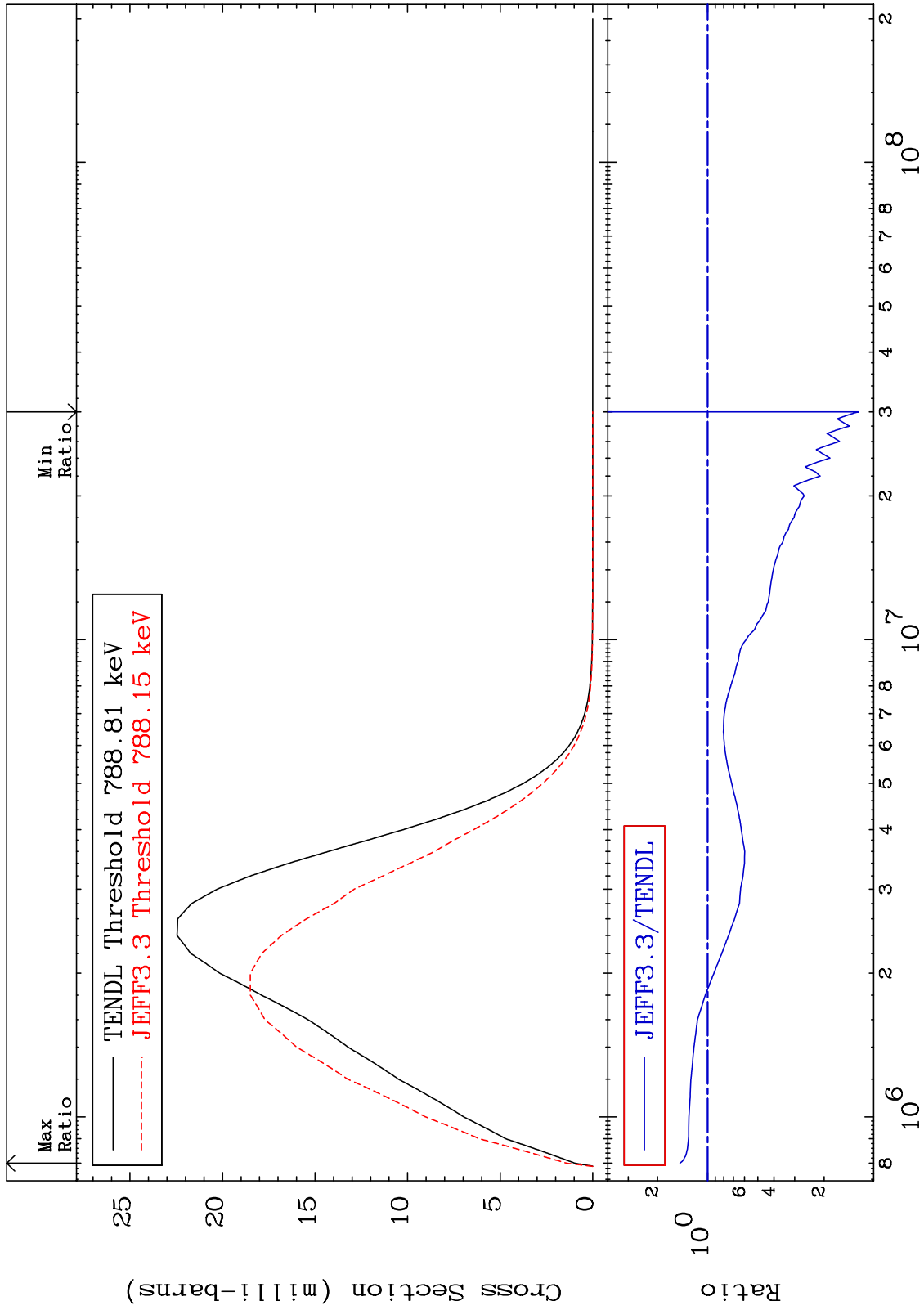
45-Rh-103  
-87.56 To 35.19 %



MAT 4525

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

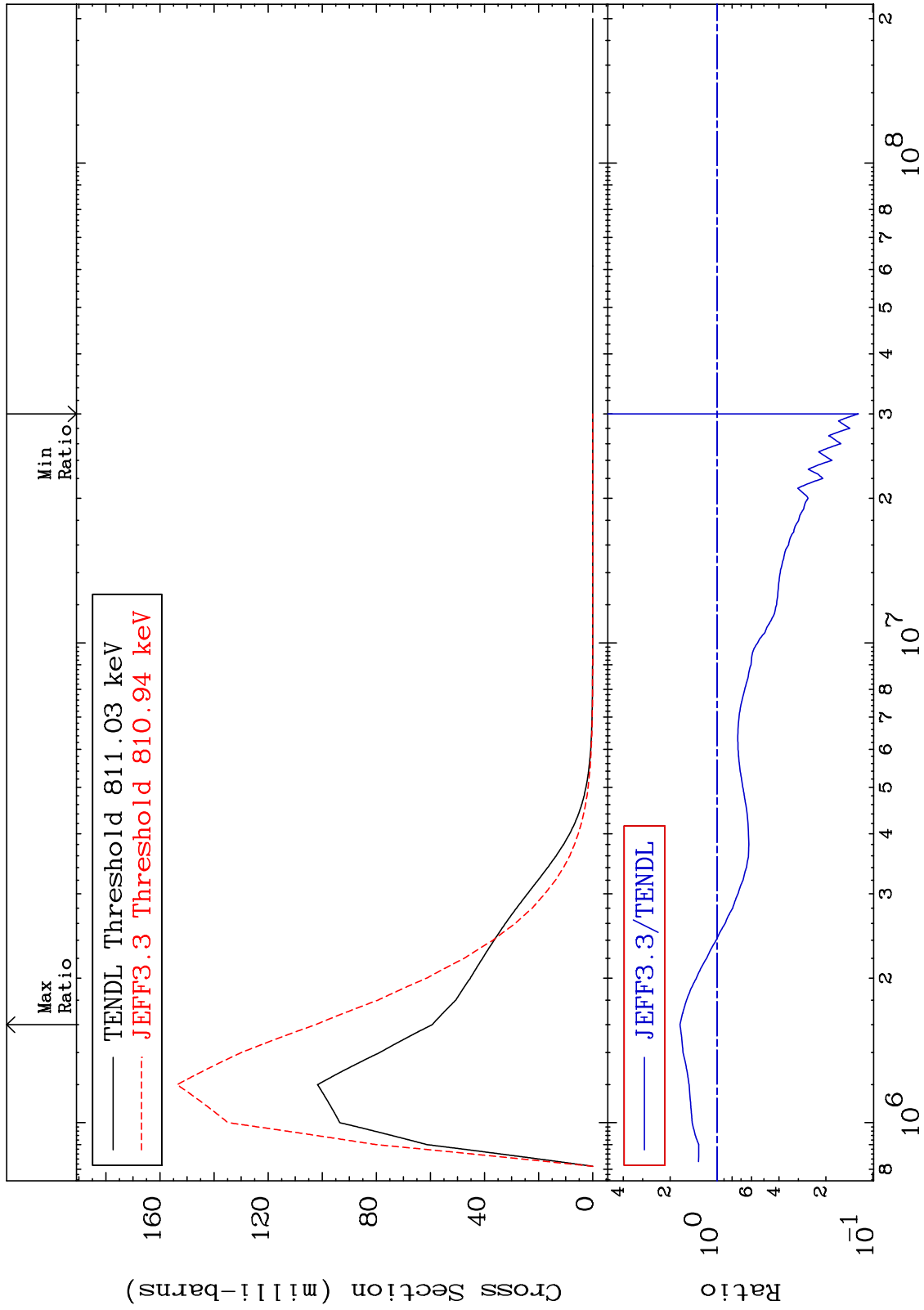
45-Rh-103  
-87.56 To 46.59 %



MAT 4525

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

45-Rh-103  
-87.63 To 72.63 %



30

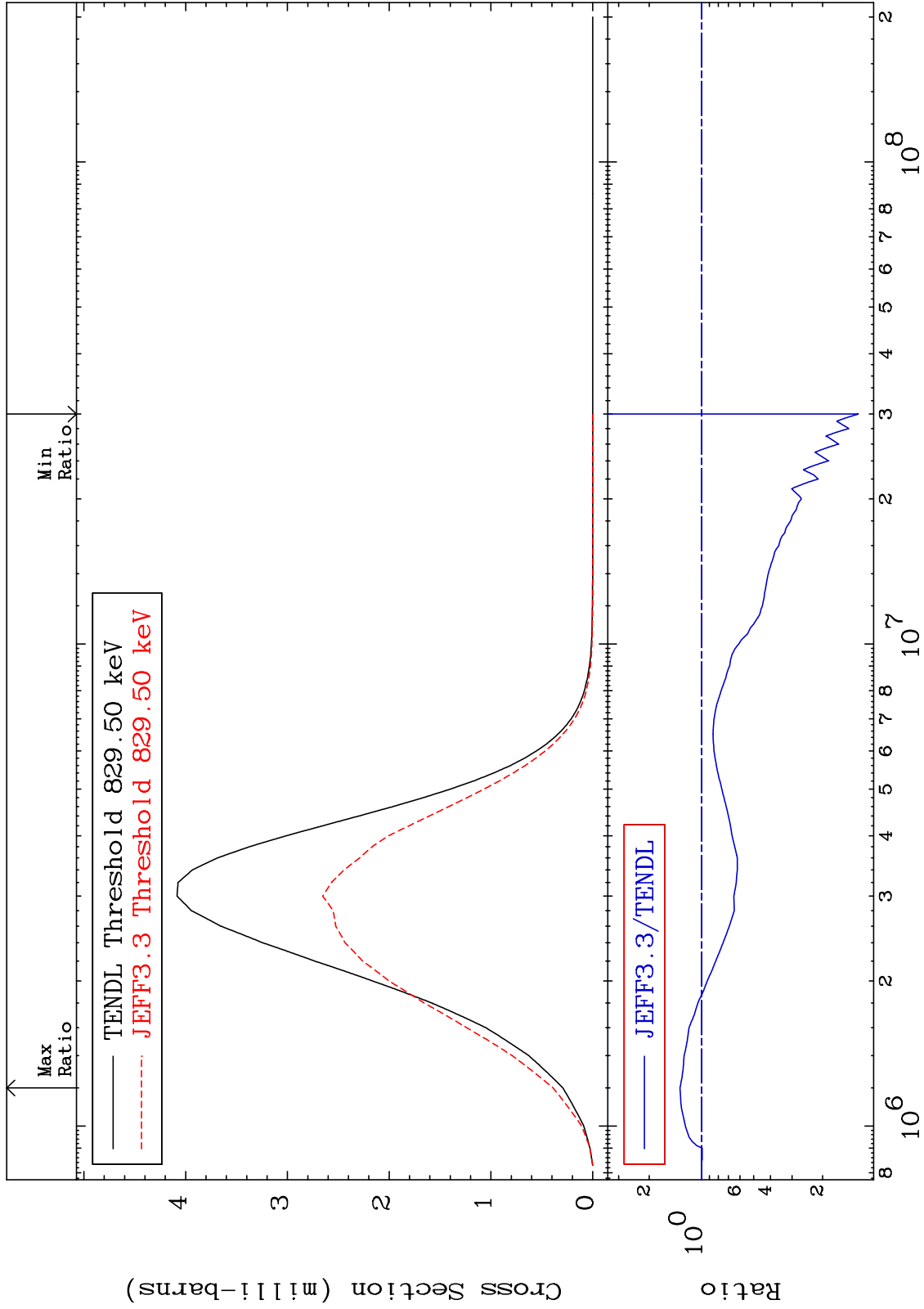
Incident Energy (eV)

45-Rh-103

MAT 4525

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

45-Rh-103  
-87.58 To 32.94 %

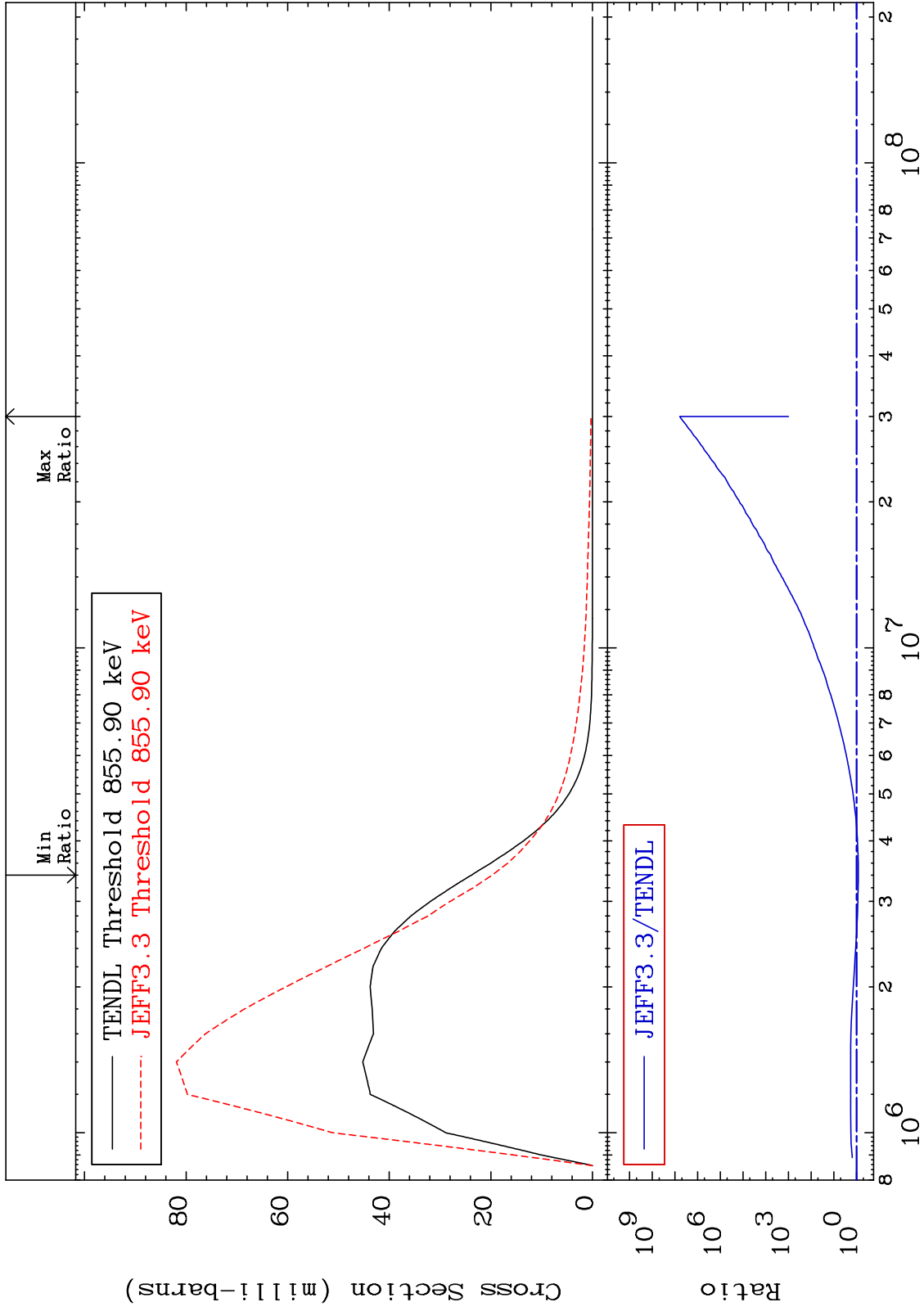




MAT 4525

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

45-Rh-103  
-17.23 To 9999. %



32

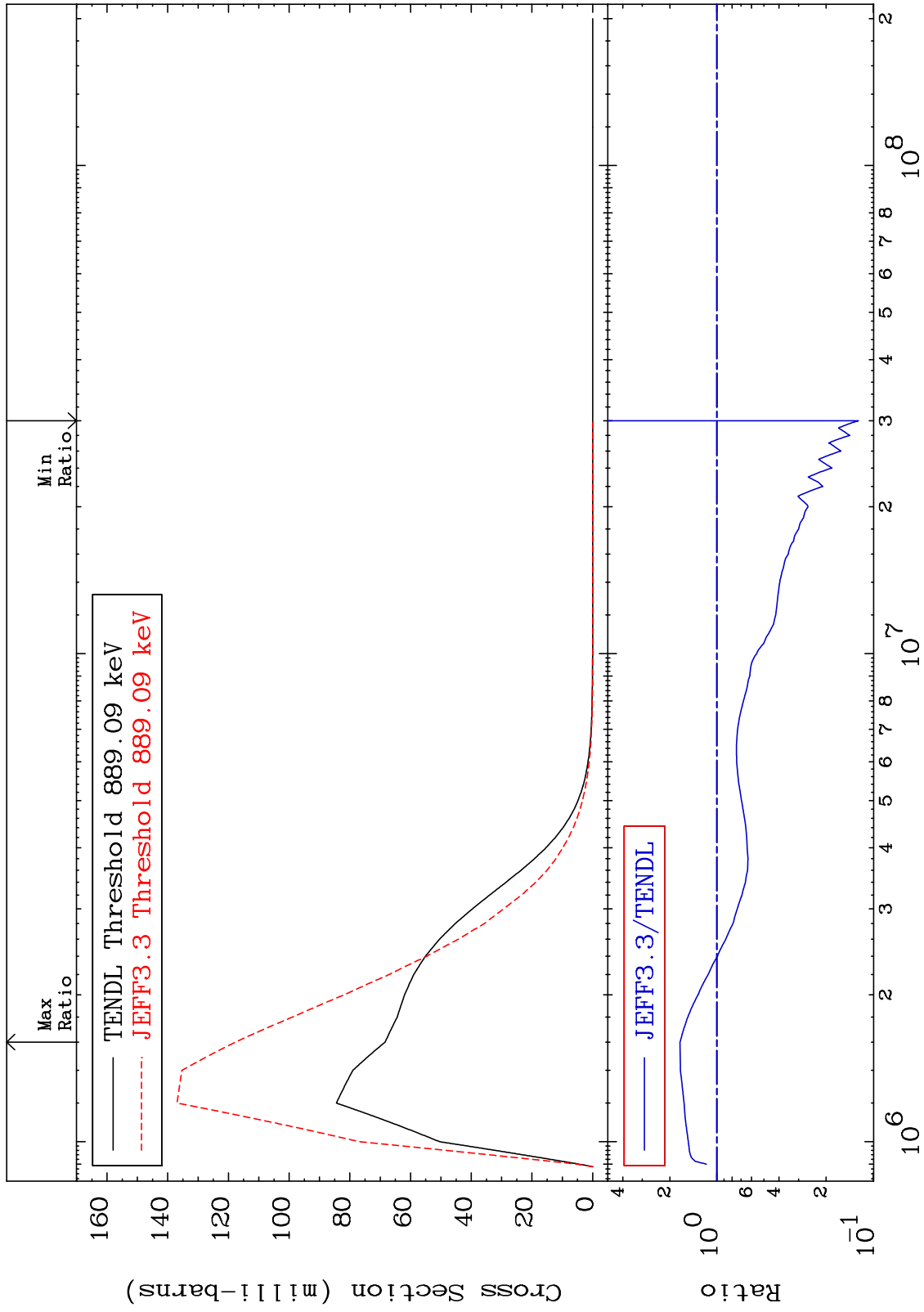
Incident Energy (eV)

45-Rh-103

MAT 4525

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

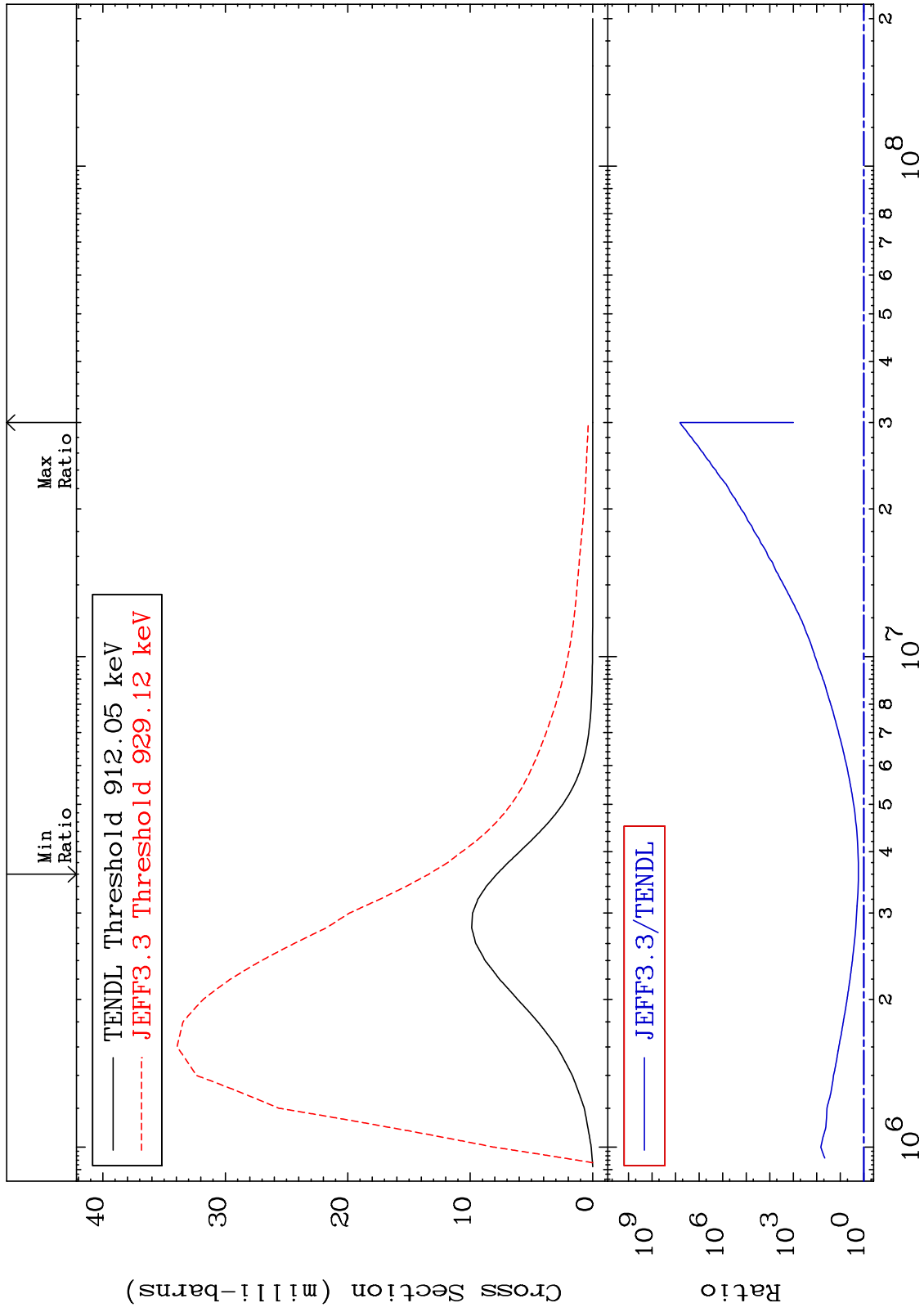
45-Rh-103  
-87.58 To 72.11 %



MAT 4525

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

45-Rh-103  
70.74 To 9999. %



34

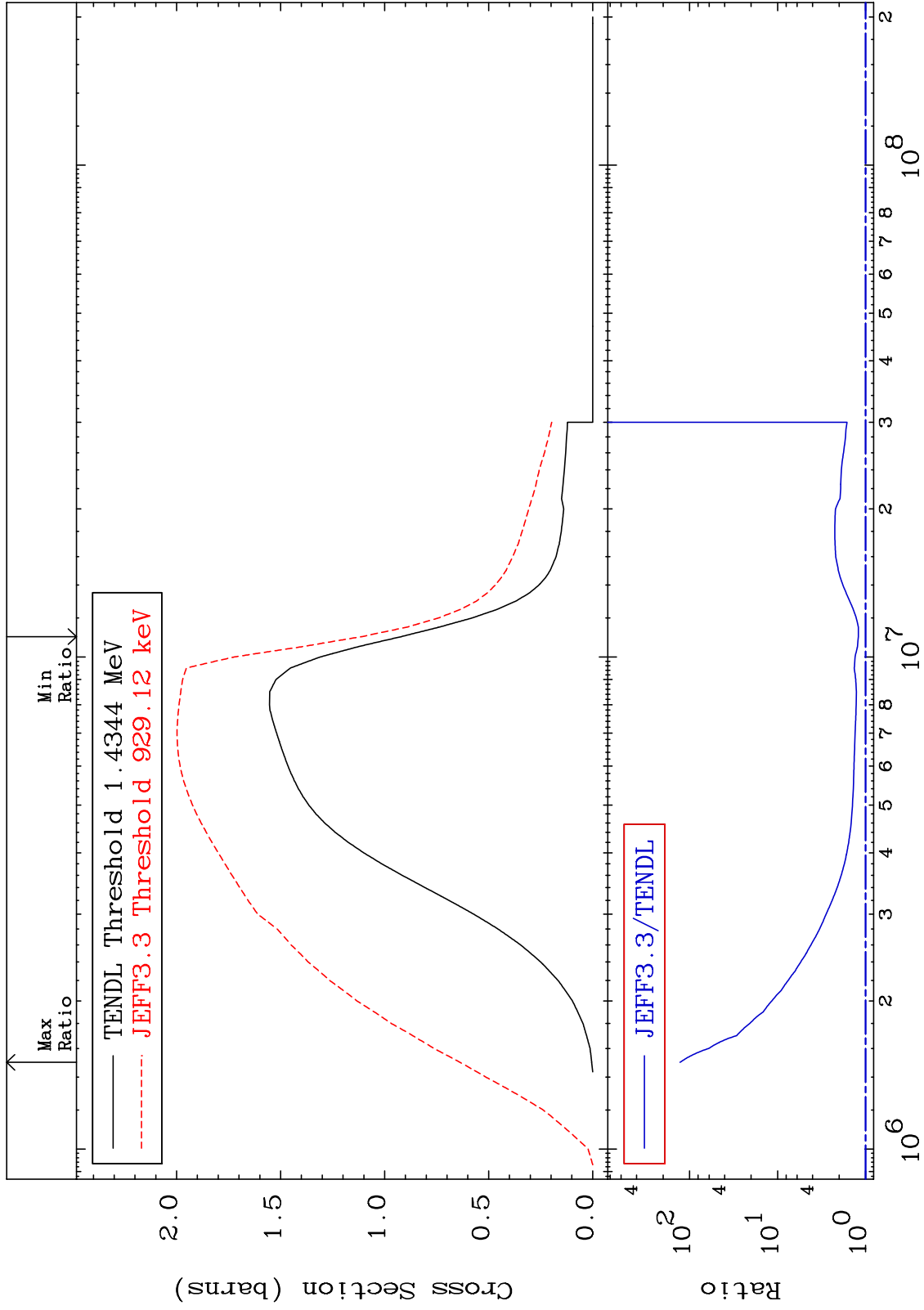
Incident Energy (eV)

45-Rh-103

MAT 4525

(n, n') Continuum  
Cross Section

45-Rh-103  
20.70 To 9999. %



Incident Energy (eV)

45-Rh-103

35

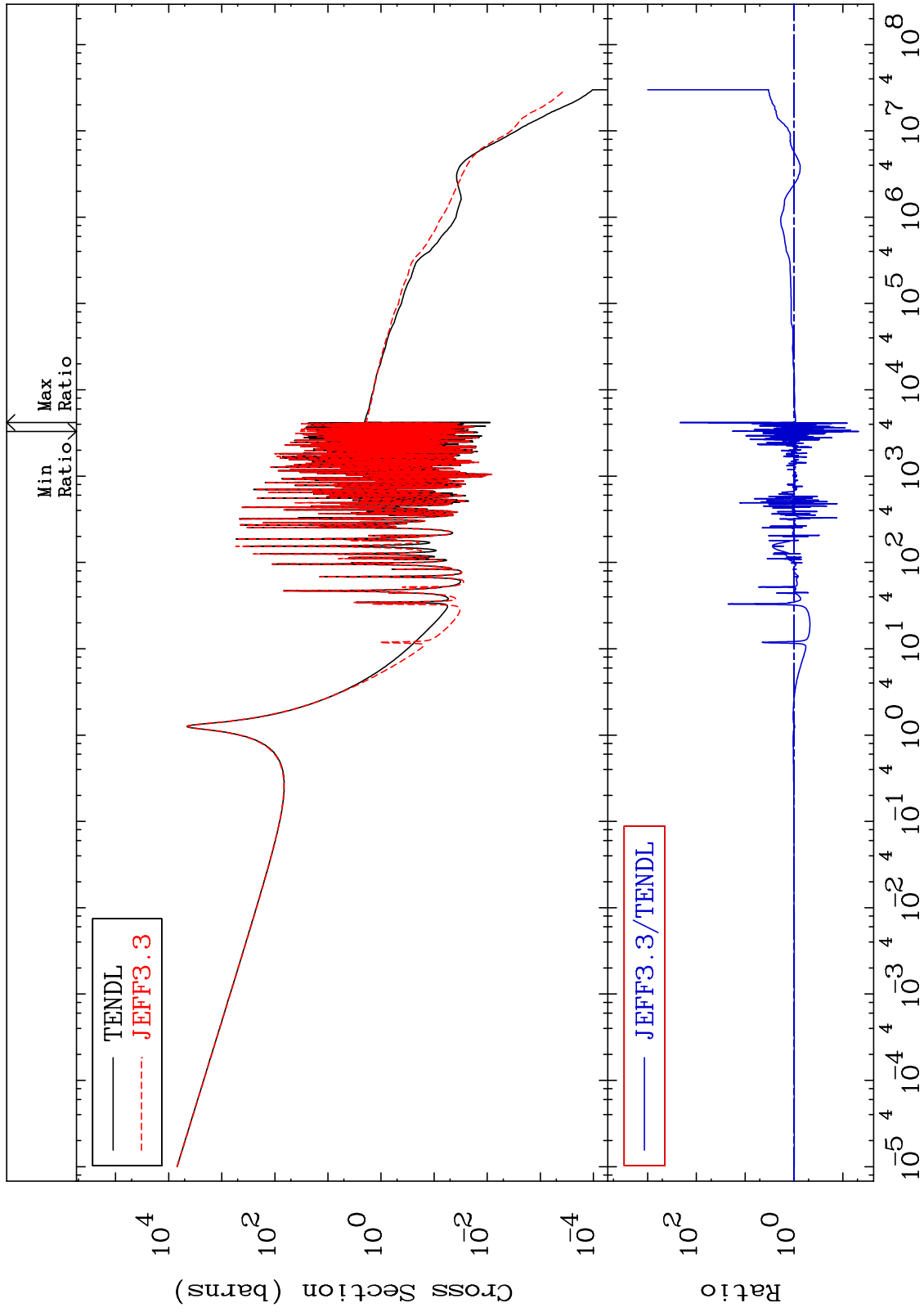
MAT 4525

(n,  $\gamma$ )

45-Rh-103

Cross Section

-95.22 To 9999. %



36

Incident Energy (eV)

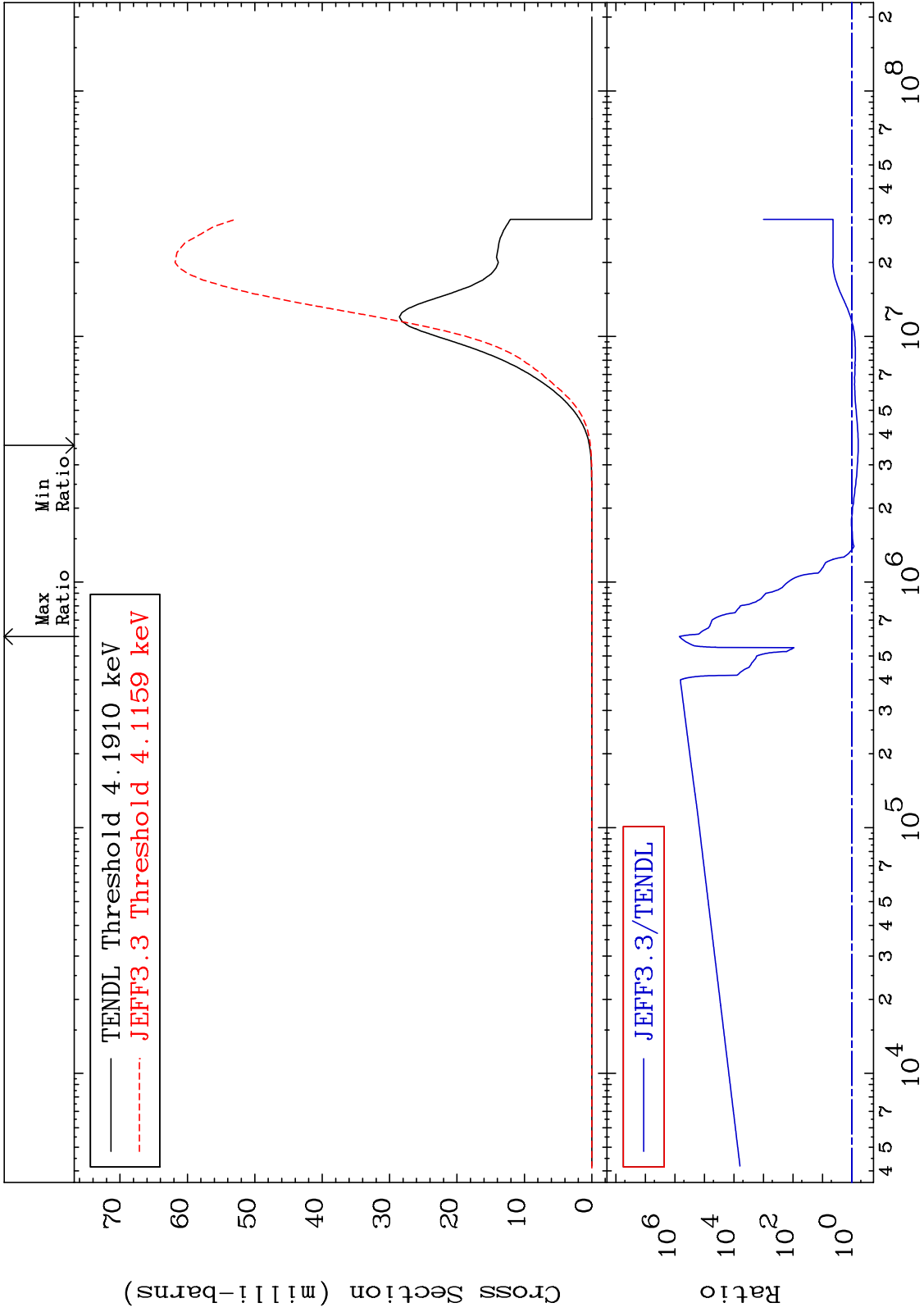
45-Rh-103

MAT 4525

45-Rh-103

-38.80 To 9999. %

(n, p)  
Cross Section



37

45-Rh-103

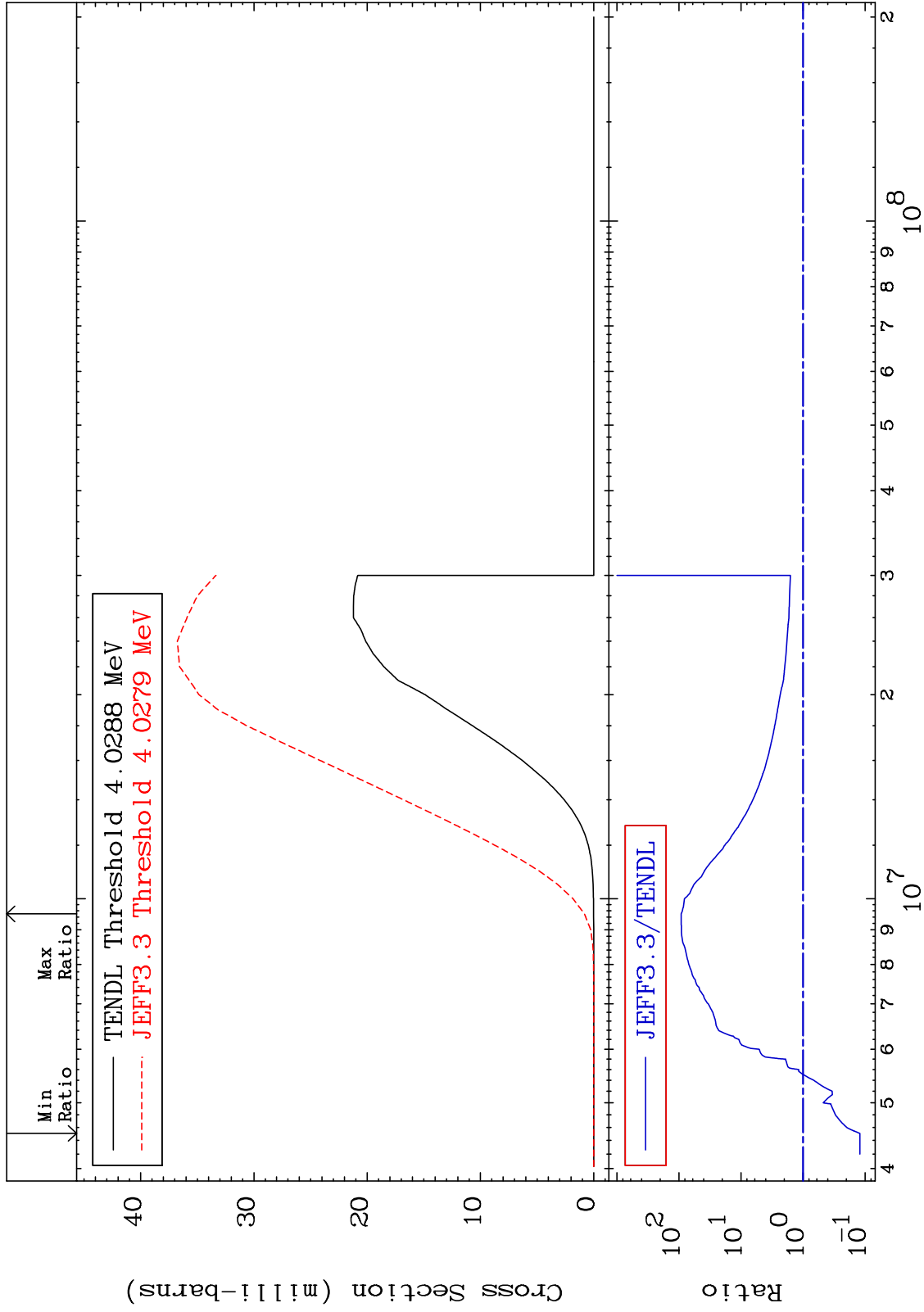
MAT 4525

(n, d)

45-Rh-103

Cross Section

-87.88 To 9077. %



45-Rh-103

Incident Energy (eV)

38

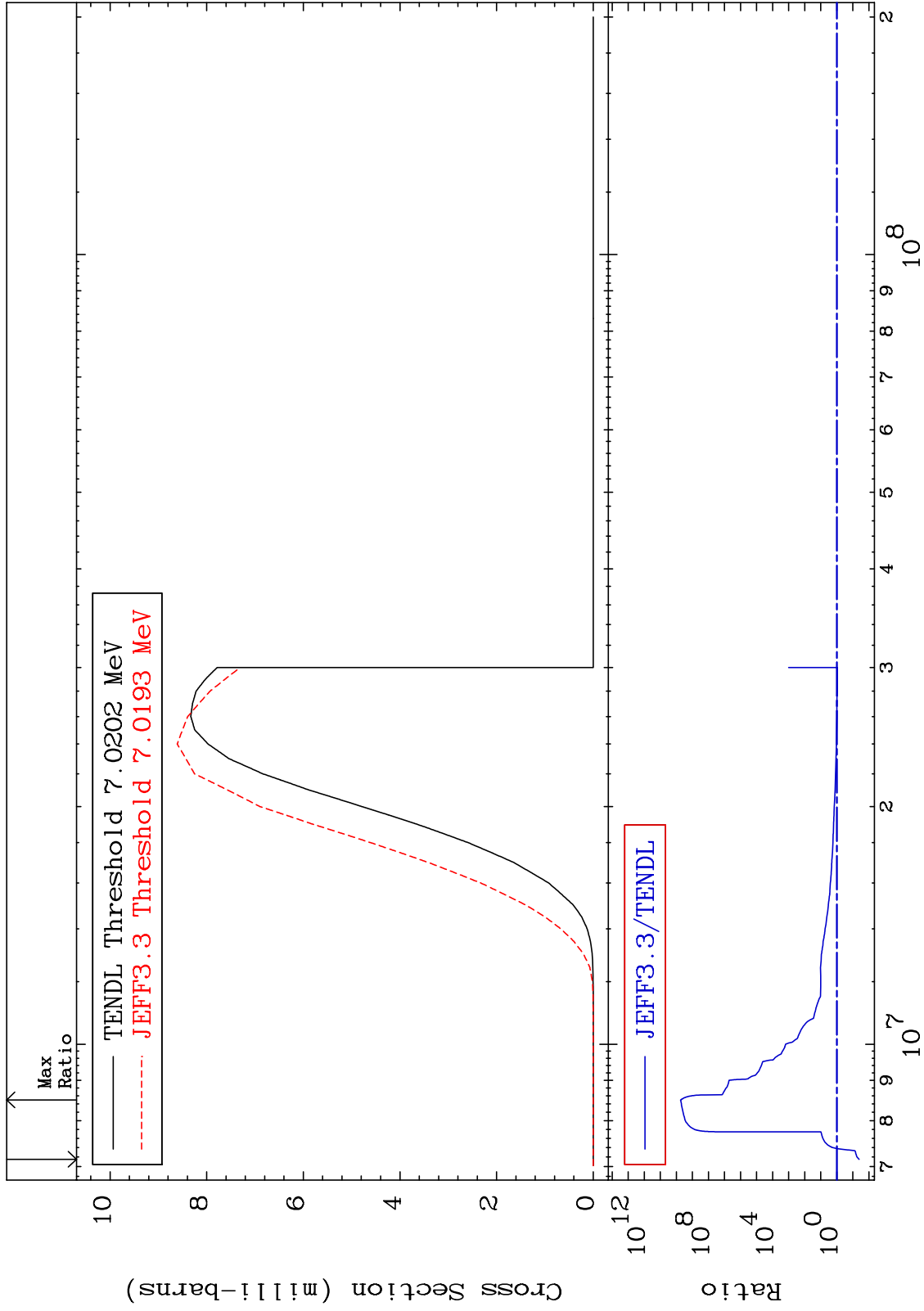
MAT 4525

(n, t)

45-Rh-103

Cross Section

-95.94 To 9999. %





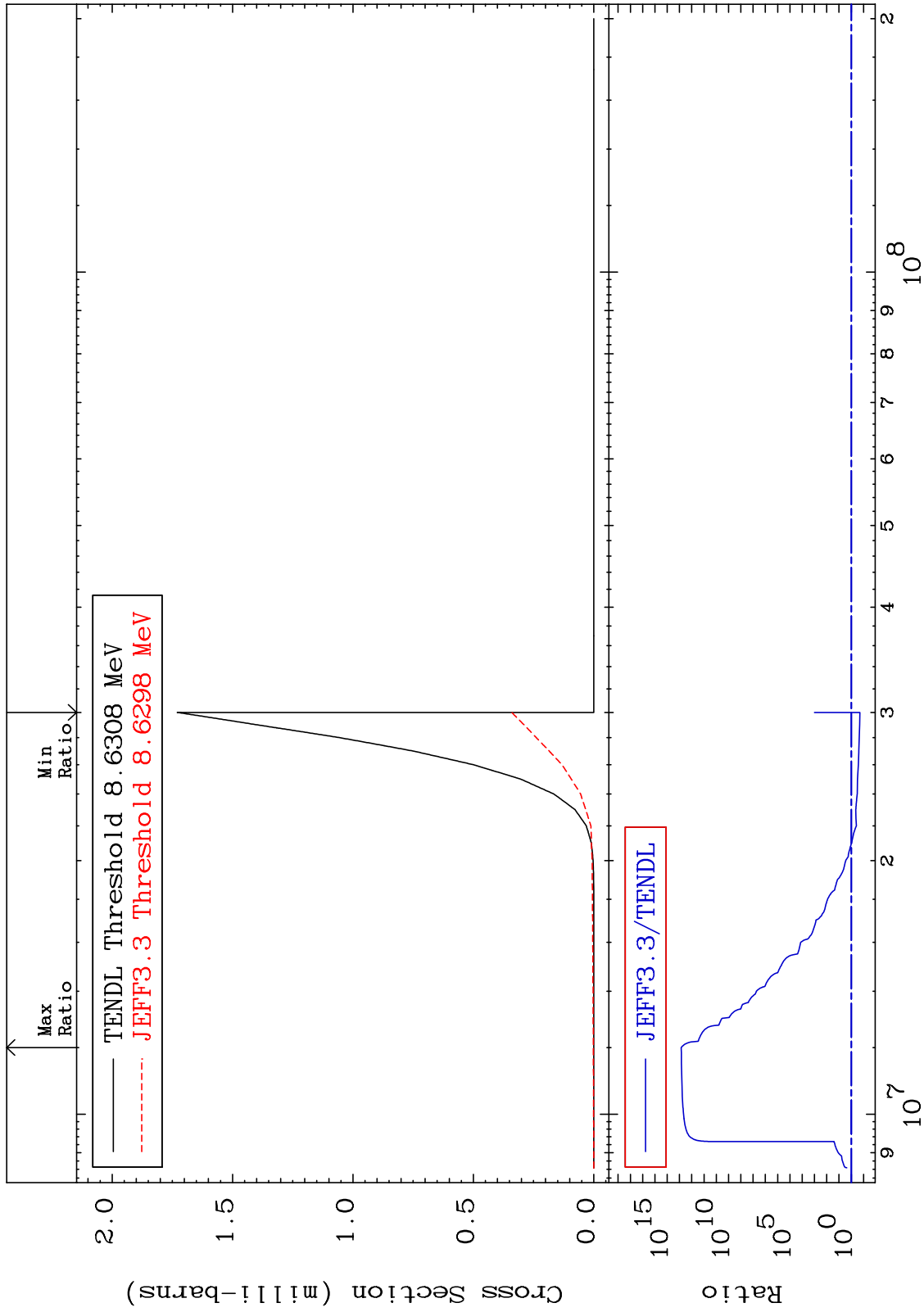
MAT 4525

(n, He-3)

45-Rh-103

Cross Section

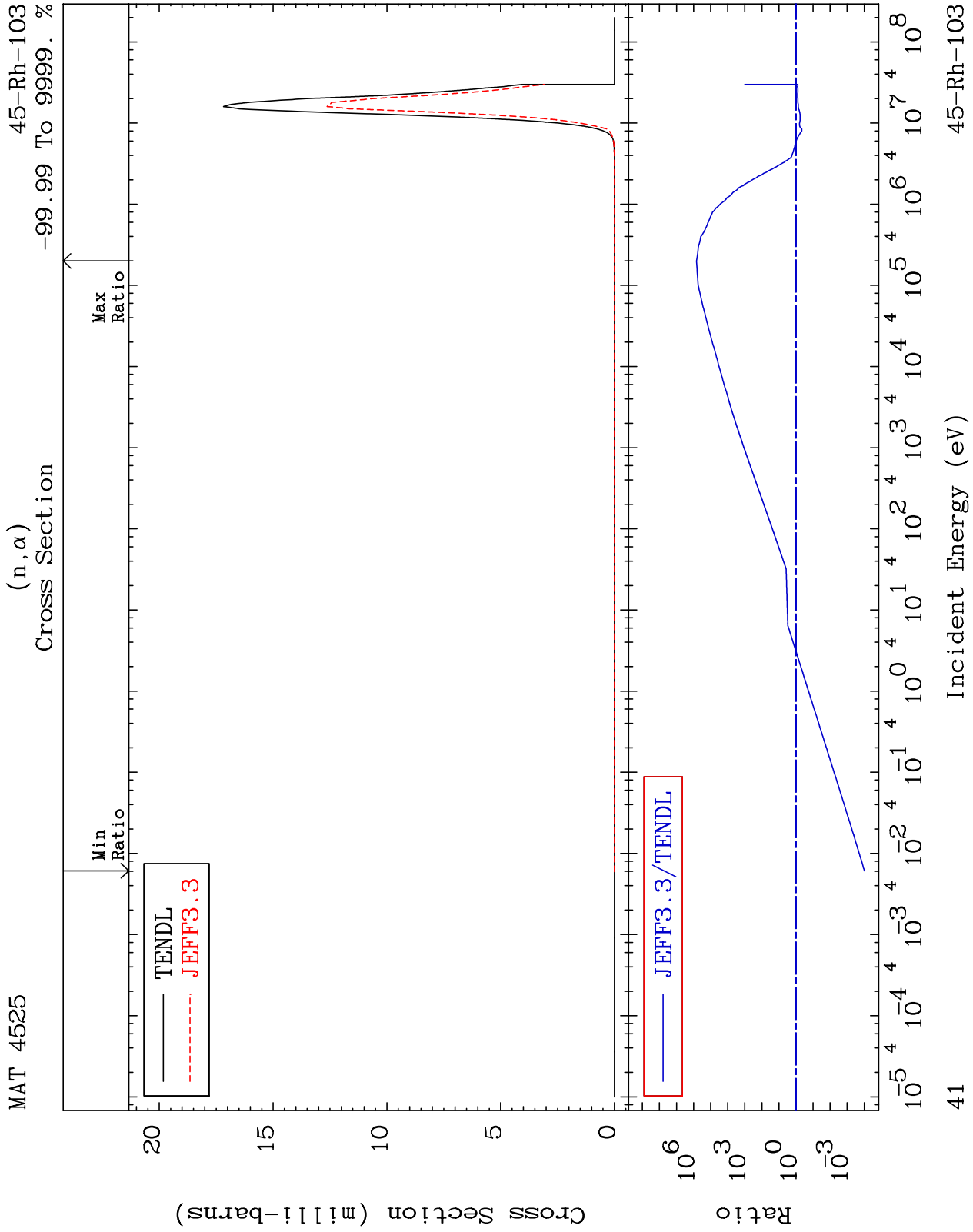
-80.29 To 9999. %



40

Incident Energy (eV)

45-Rh-103



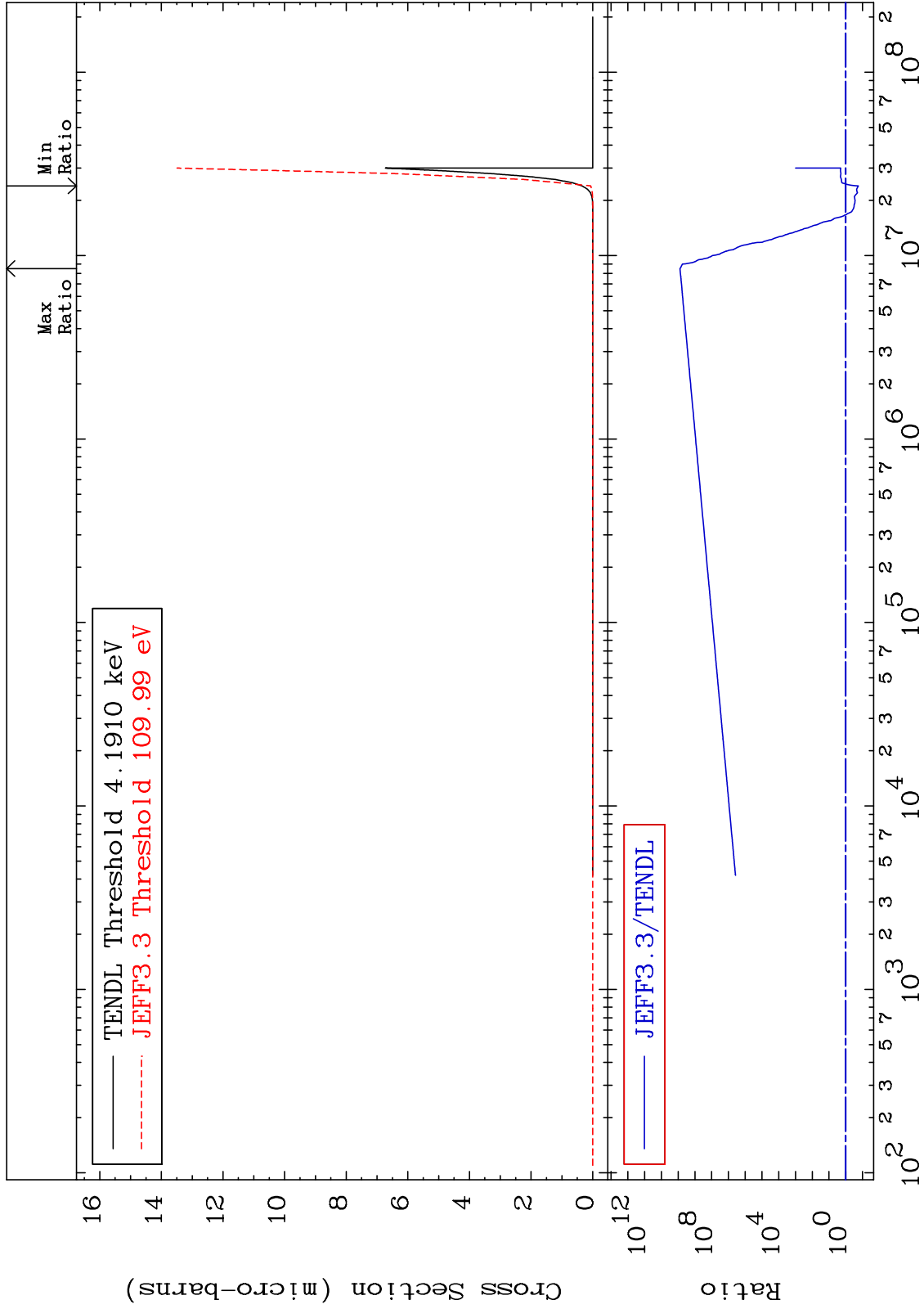
MAT 4525

(n, 2α)

45-Rh-103

Cross Section

-82.34 To 9999. %

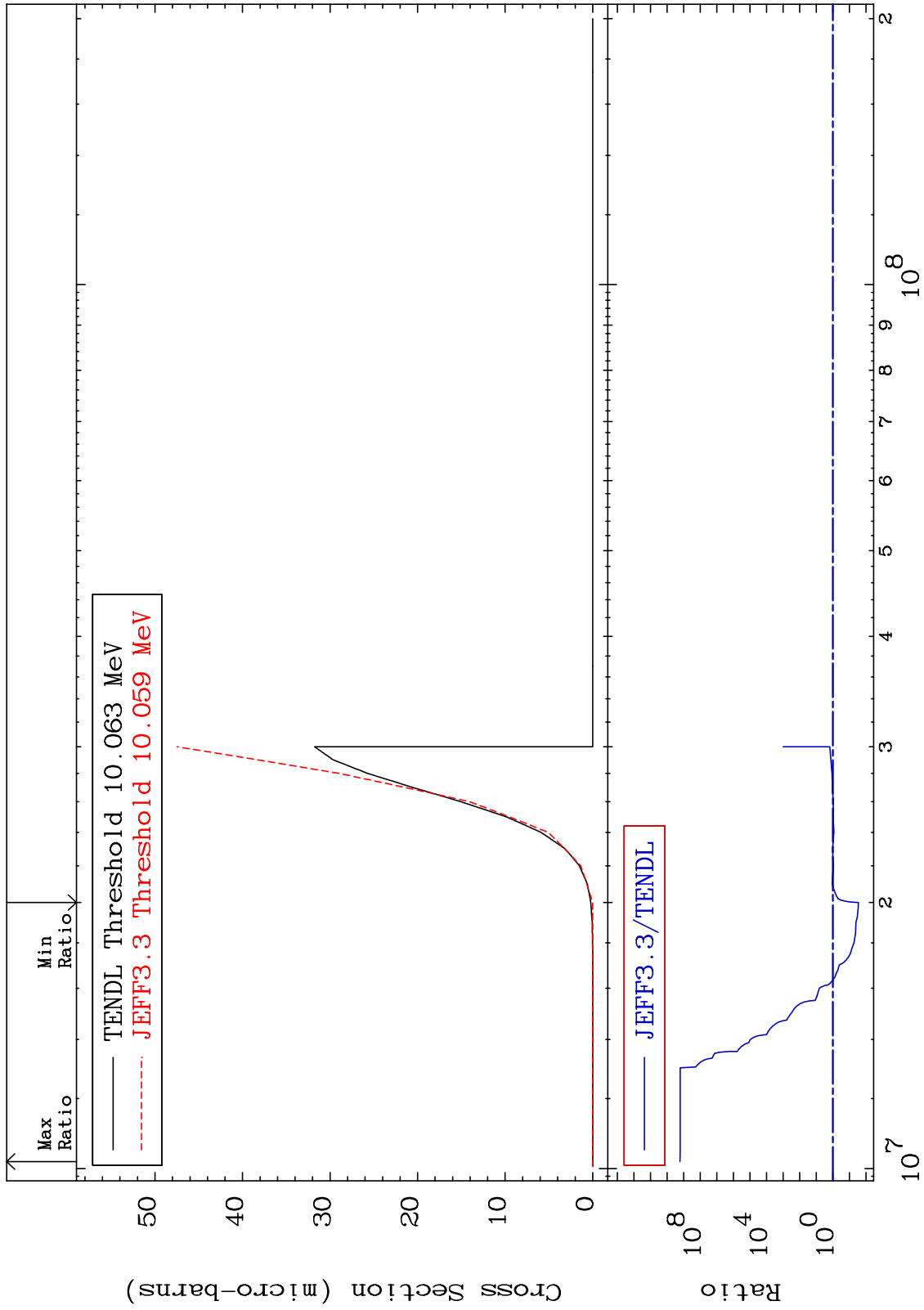


Incident Energy (eV)

45-Rh-103

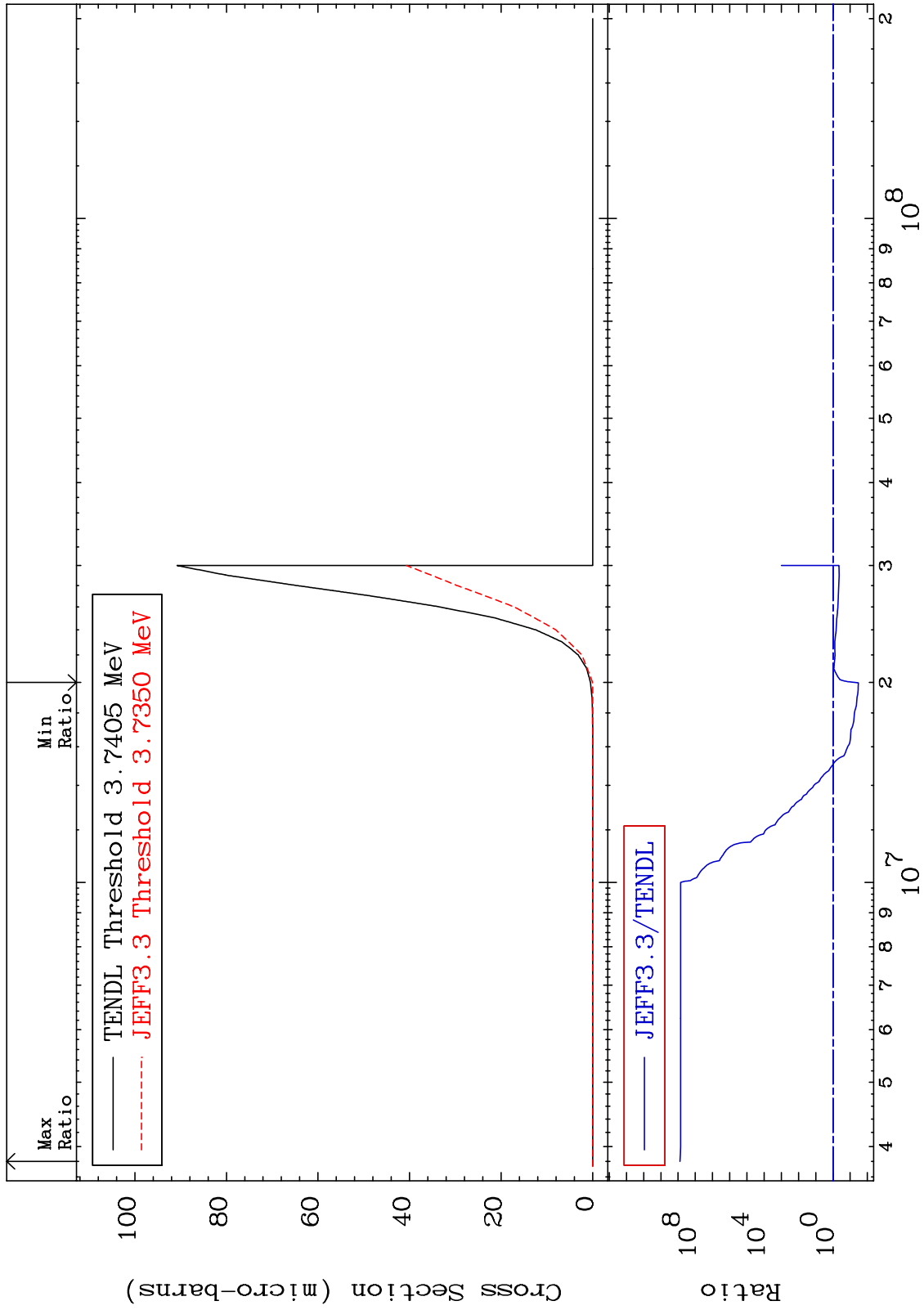
42

MAT 4525 (n,2p) Cross Section 45-Rh-103 -97.16 To 9999. %



43 45-Rh-103

MAT 4525 (n,p)  $\alpha$  45-Rh-103  
 Cross Section -96.68 To 9999. %



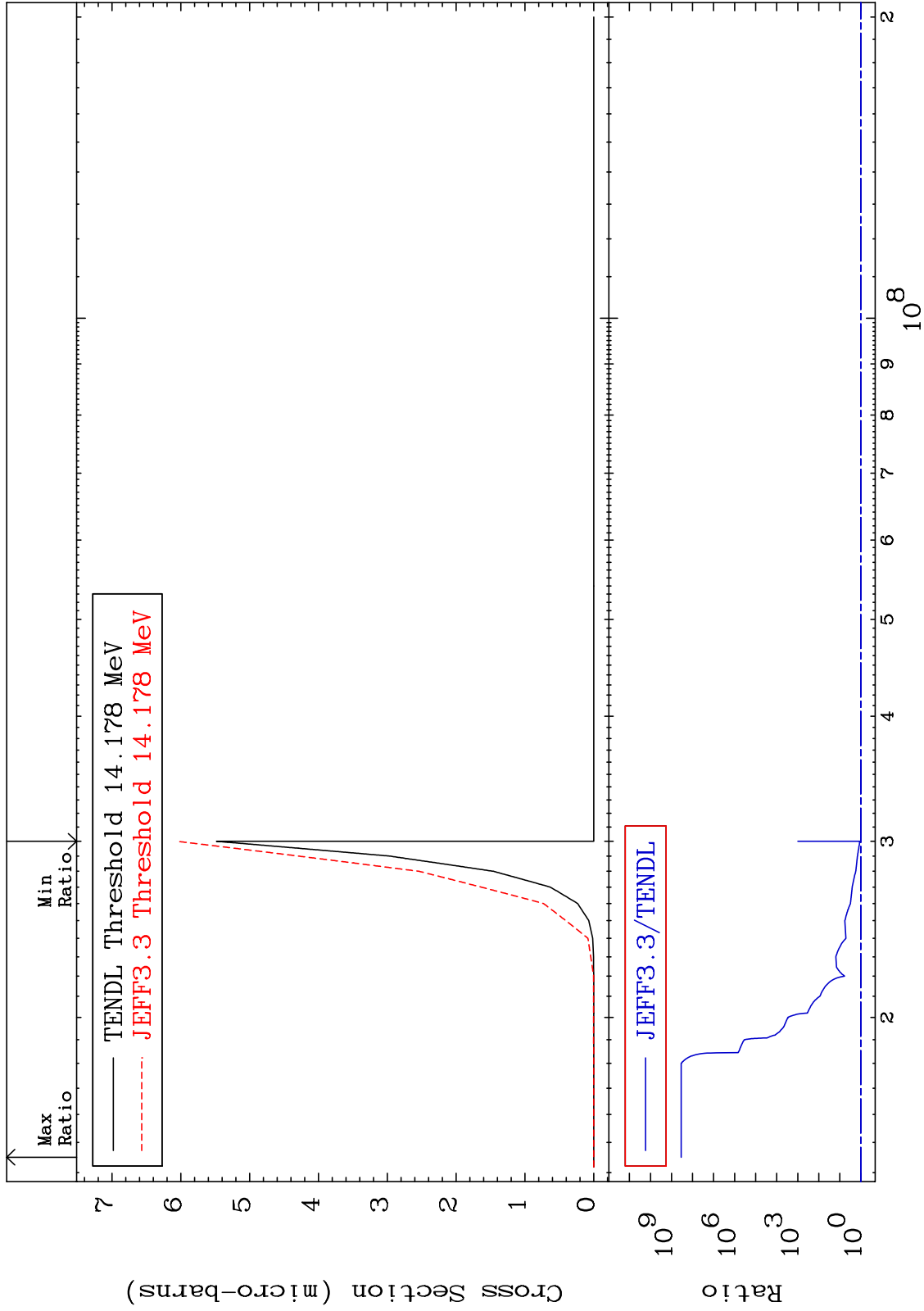
MAT 4525

(n,p) d

45-Rh-103

Cross Section

10.37 To 9999. %



45

Incident Energy (eV)

45-Rh-103

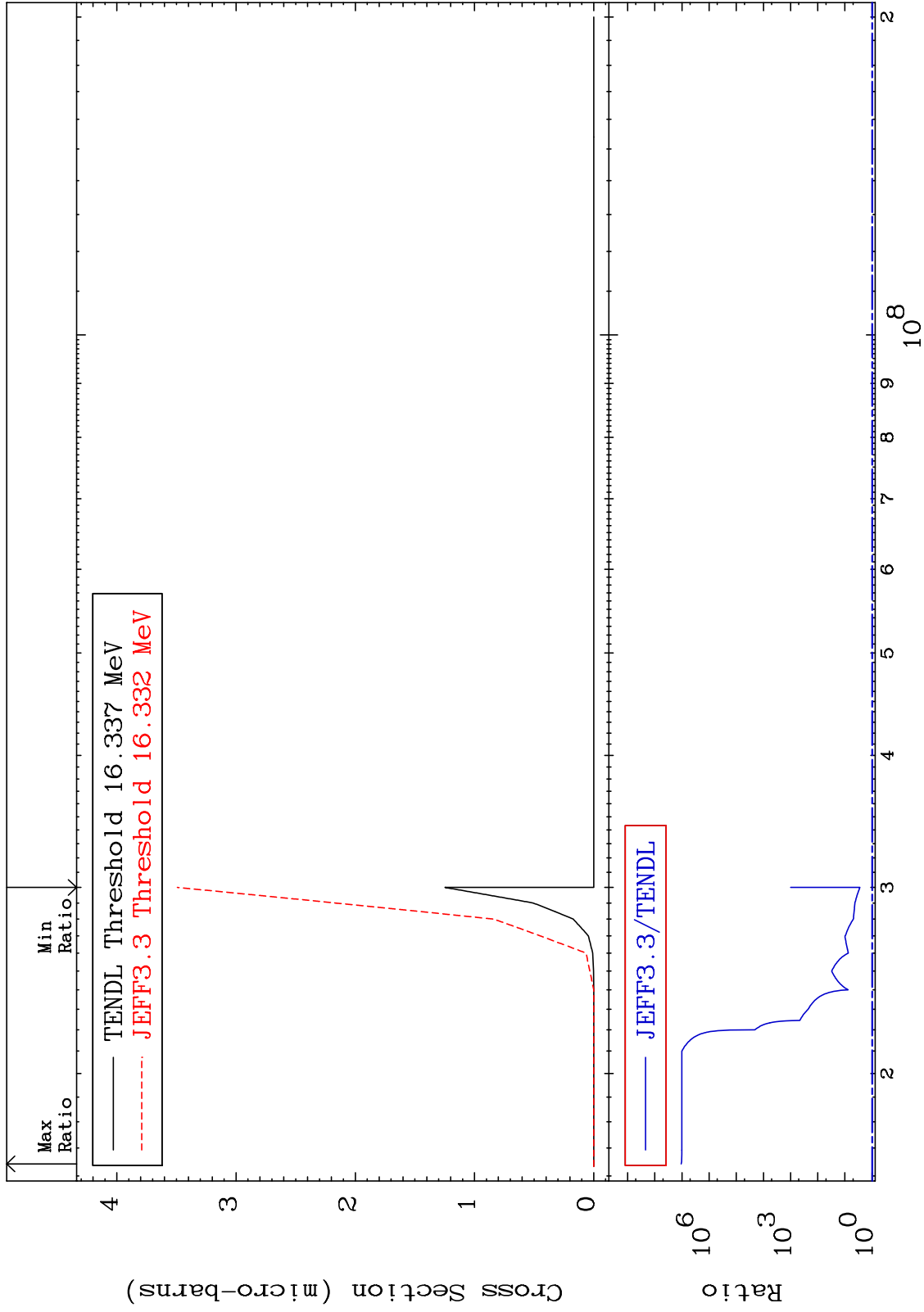
MAT 4525

(n,p) t

45-Rh-103

Cross Section

179.7 To 9999. %



46

Incident Energy (eV)

45-Rh-103

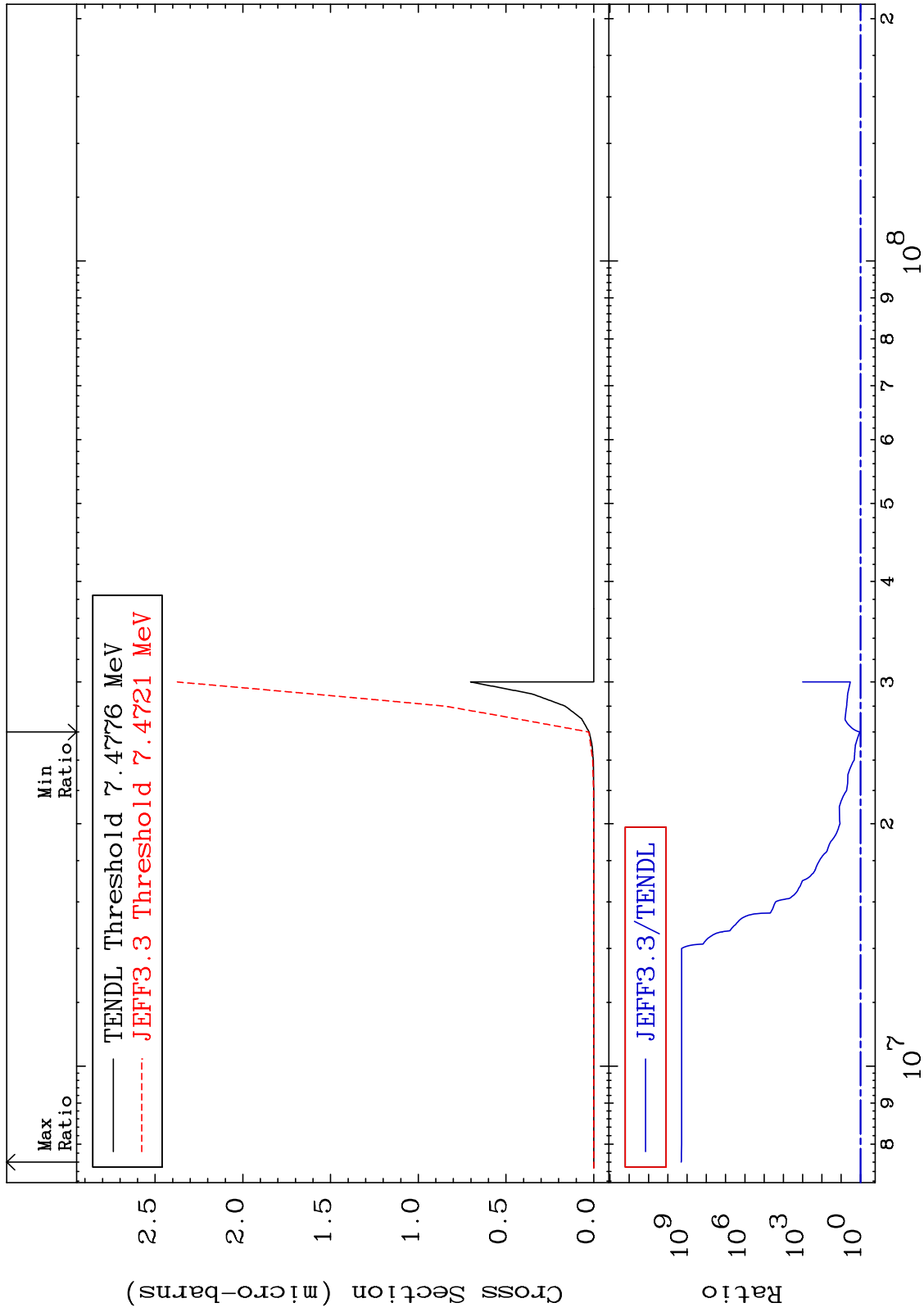
MAT 4525

(n,d)  $\alpha$

45-Rh-103

Cross Section

6.298 To 9999. %

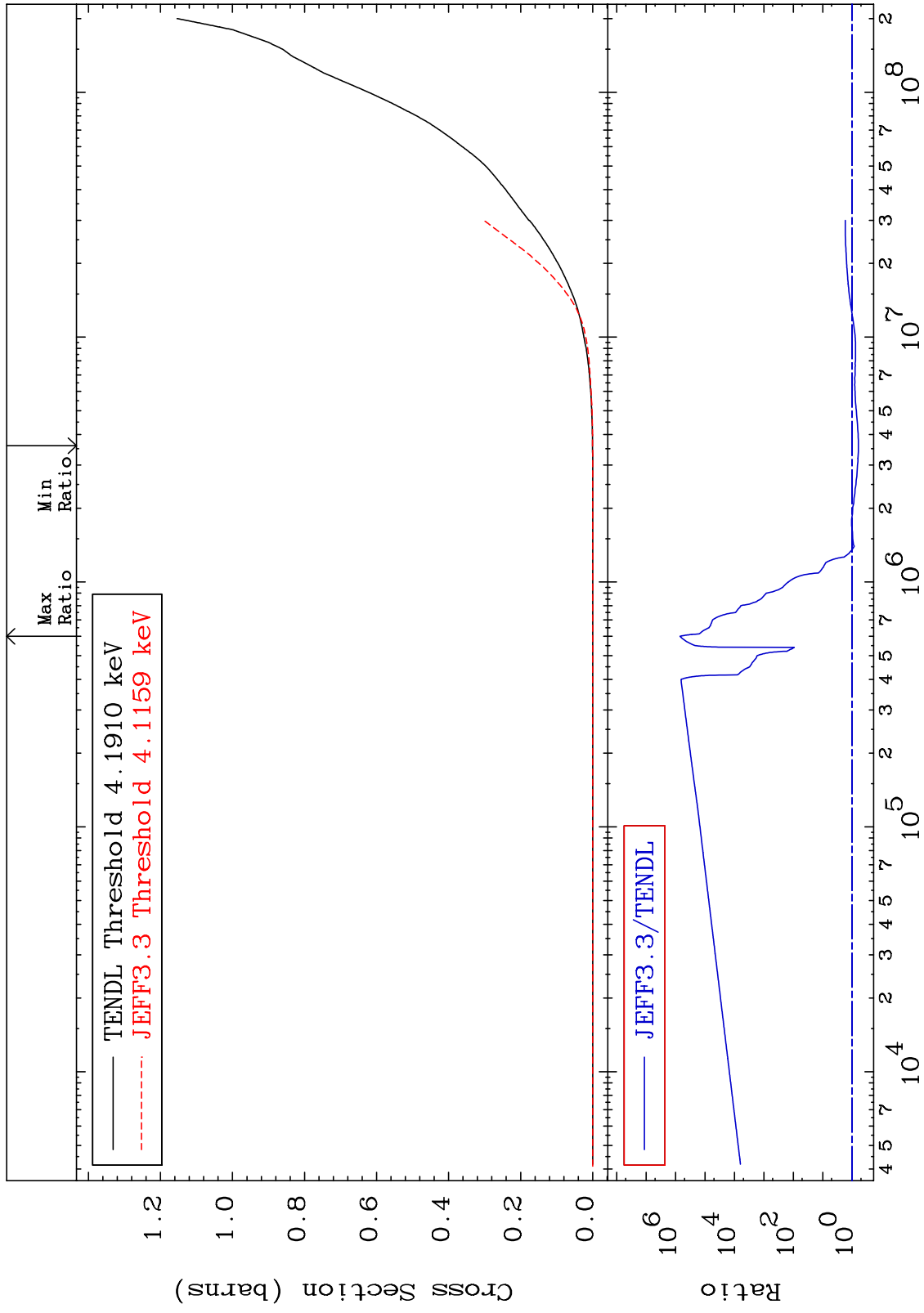




MAT 4525

Hydrogen Production  
Cross Section

45-Rh-103  
-38.80 To 9999. %



48

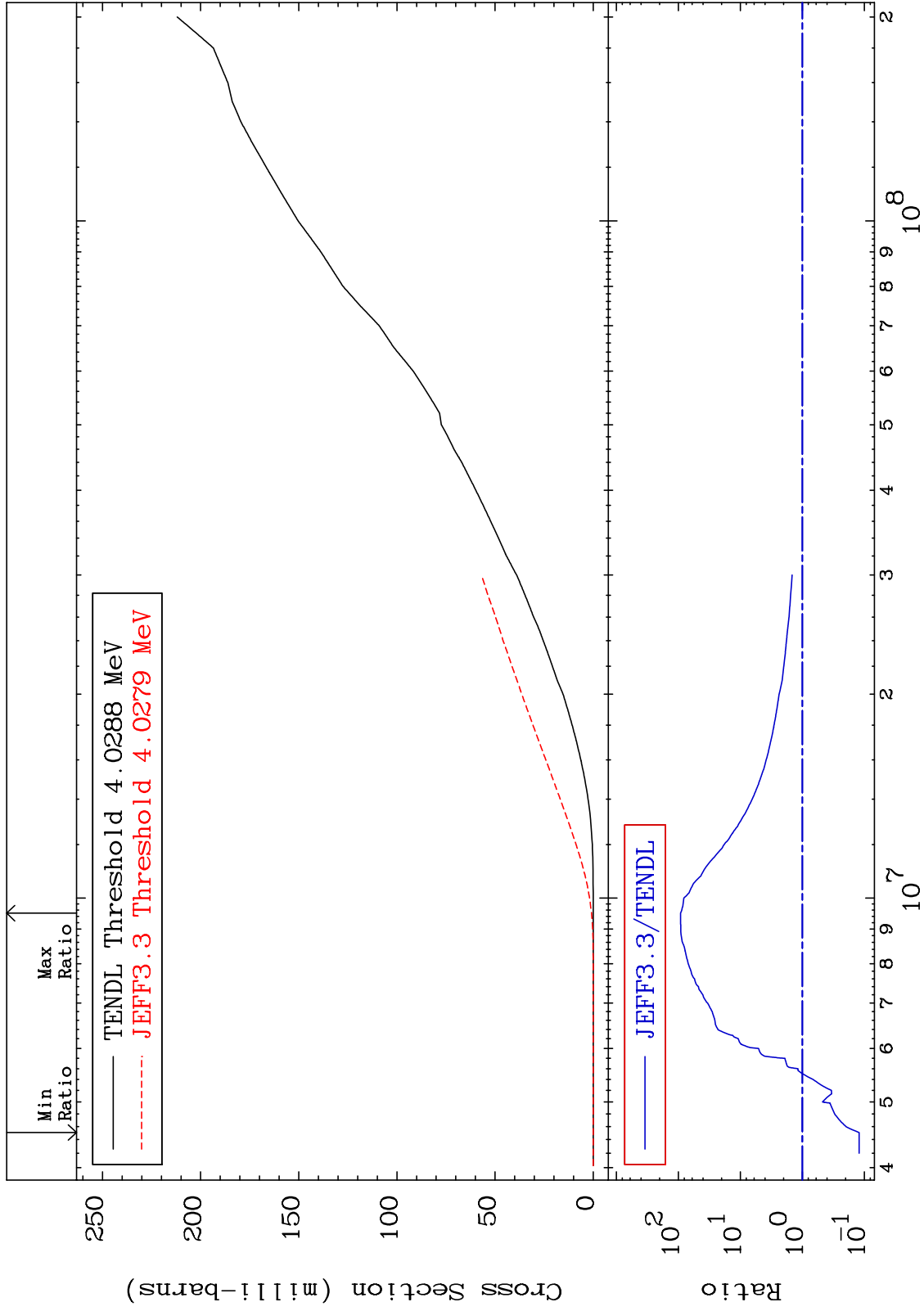
Incident Energy (eV)

45-Rh-103

MAT 4525

Deuterium Production  
Cross Section

45-Rh-103  
-87.88 To 9077. %



49

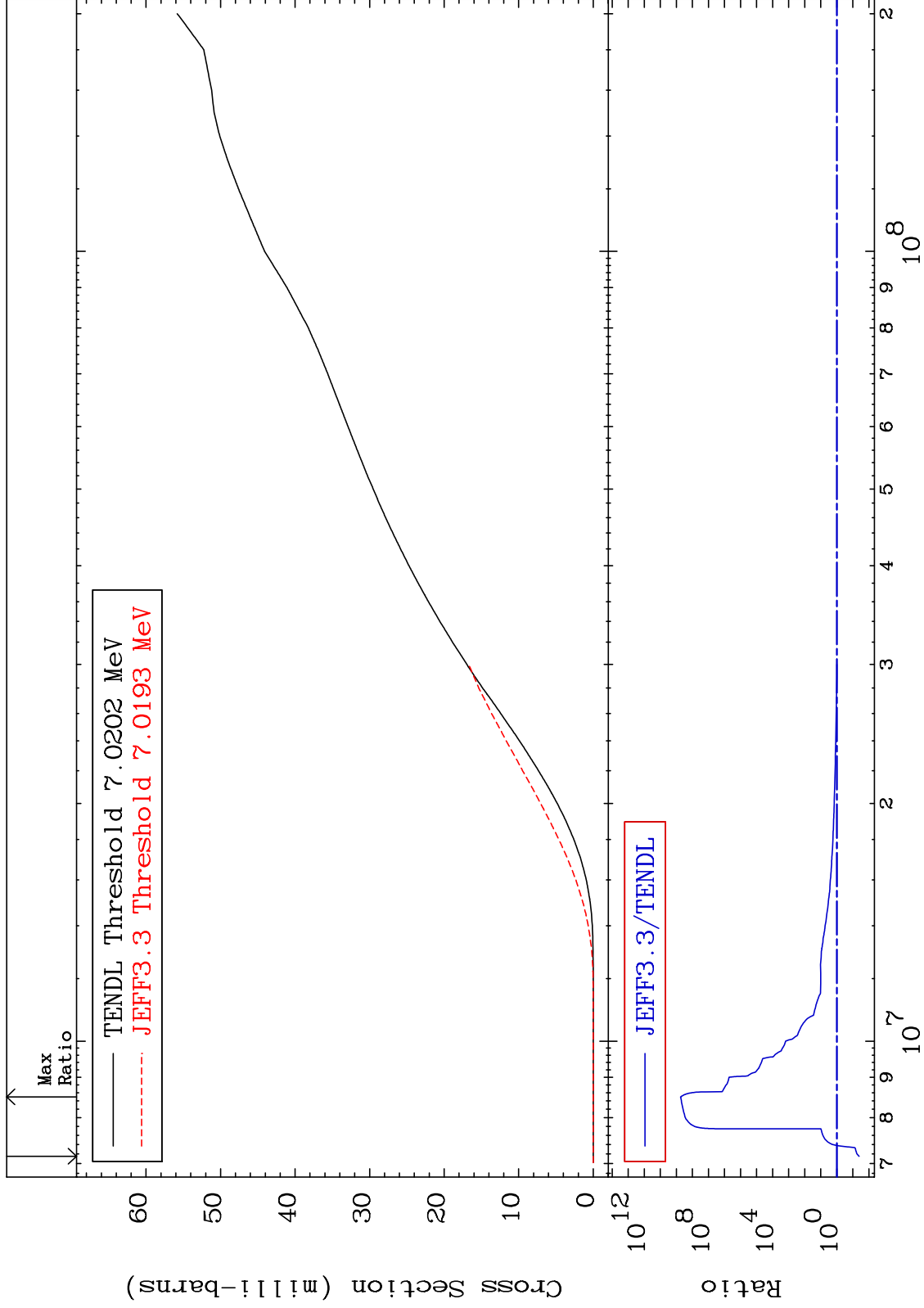
Incident Energy (eV)

45-Rh-103

MAT 4525

Tritium Production  
Cross Section

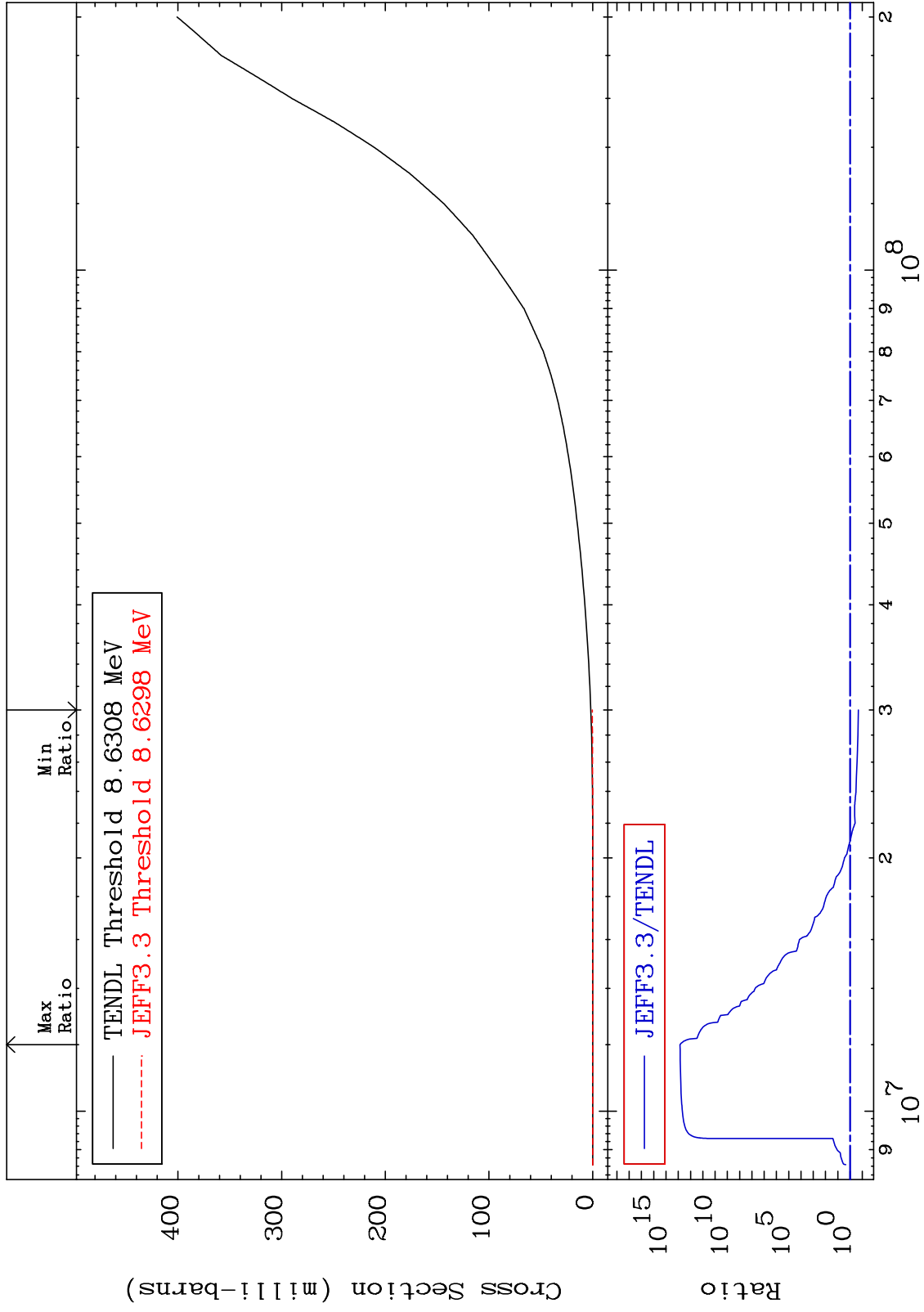
45-Rh-103  
-95.94 To 9999. %



50

Incident Energy (eV)

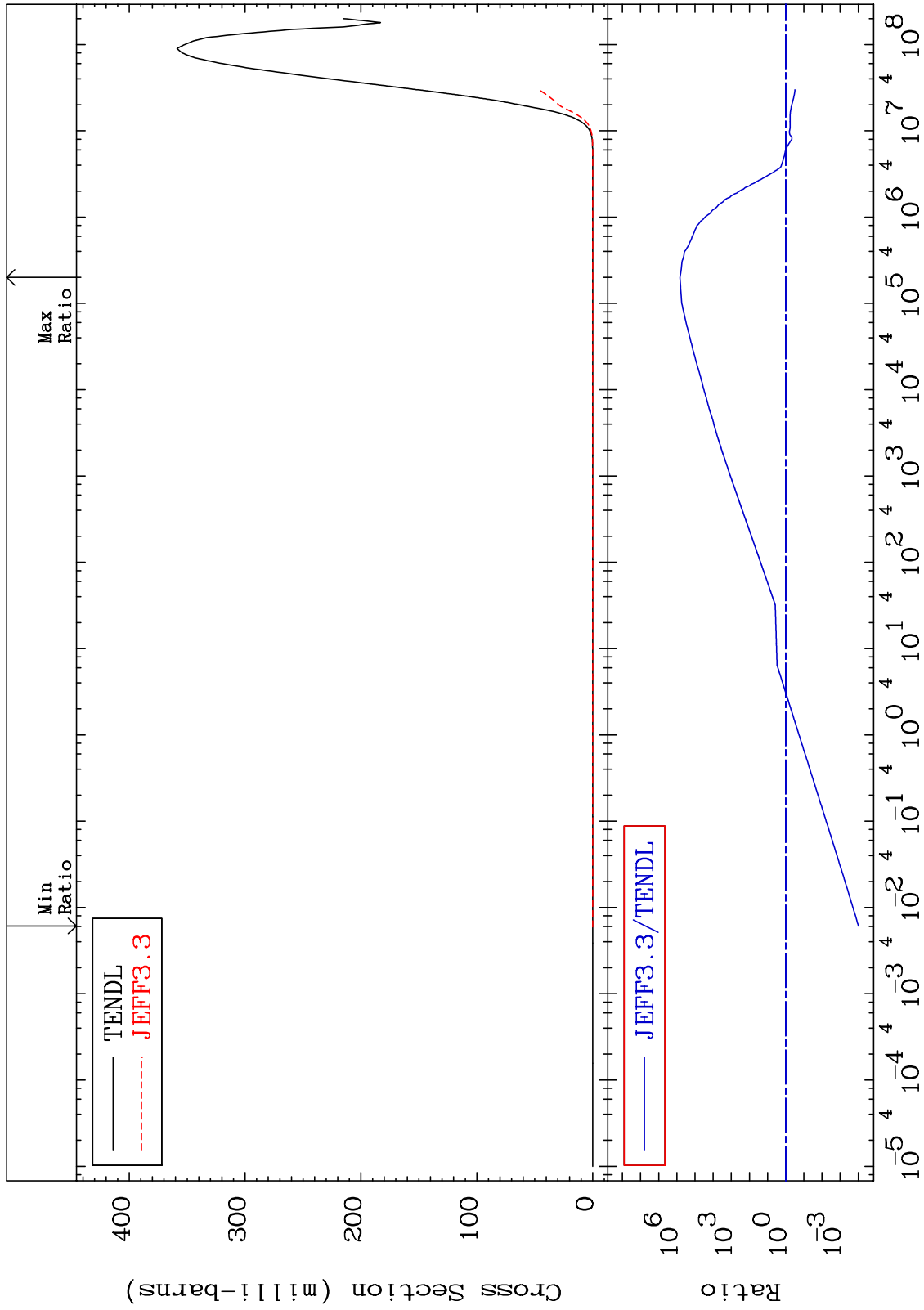
45-Rh-103



MAT 4525

He-4 Production  
Cross Section

45-Rh-103  
-99.99 To 9999. %



52

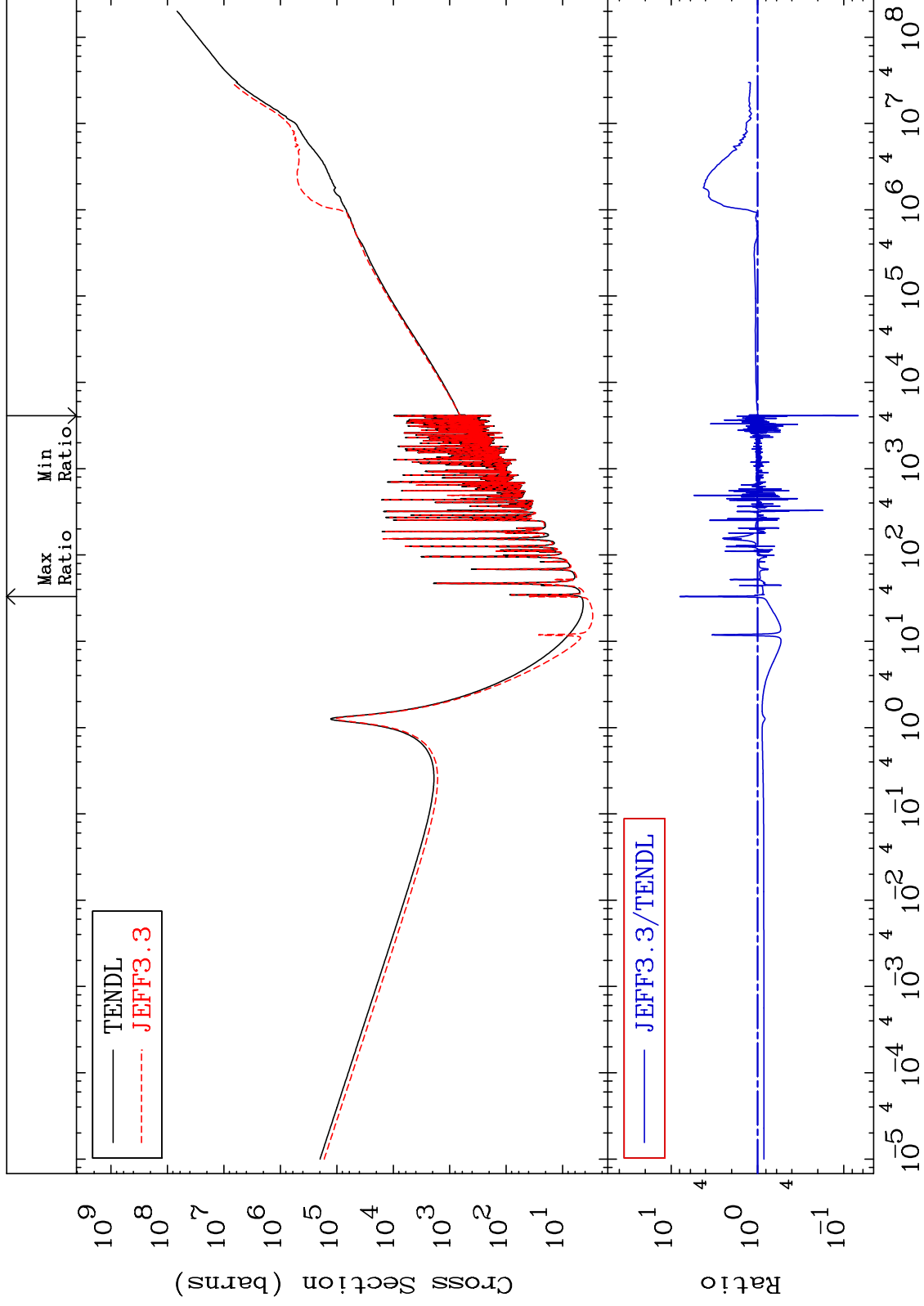
Incident Energy (eV)

45-Rh-103

MAT 4525

Kerma total (eV-barns)  
Cross Section

45-Rh-103  
-93.22 To 690.9 %



53

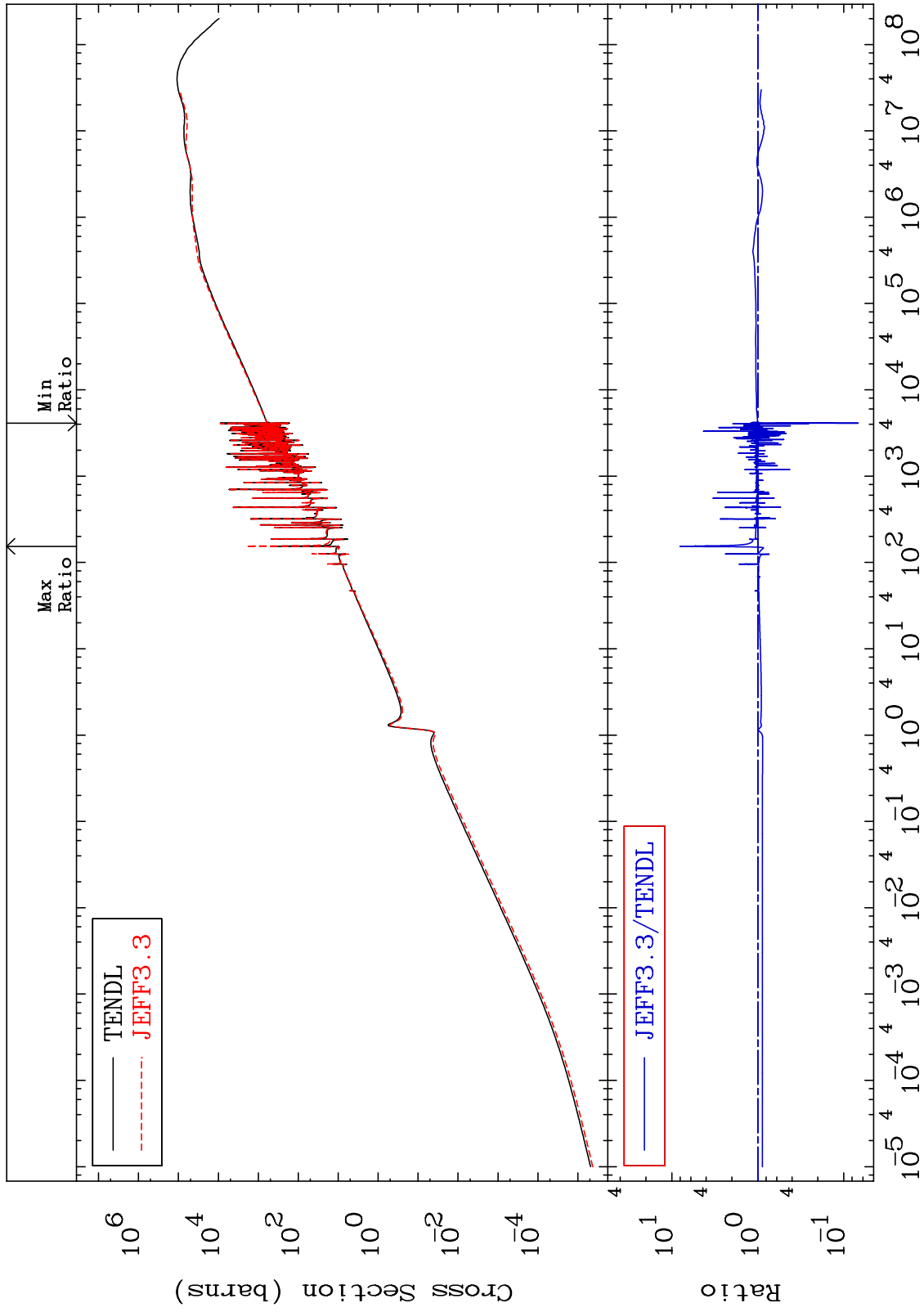
Incident Energy (eV)

45-Rh-103

MAT 4525

Kerma elastic  
Cross Section

45-Rh-103  
-93.24 To 703.8 %



54

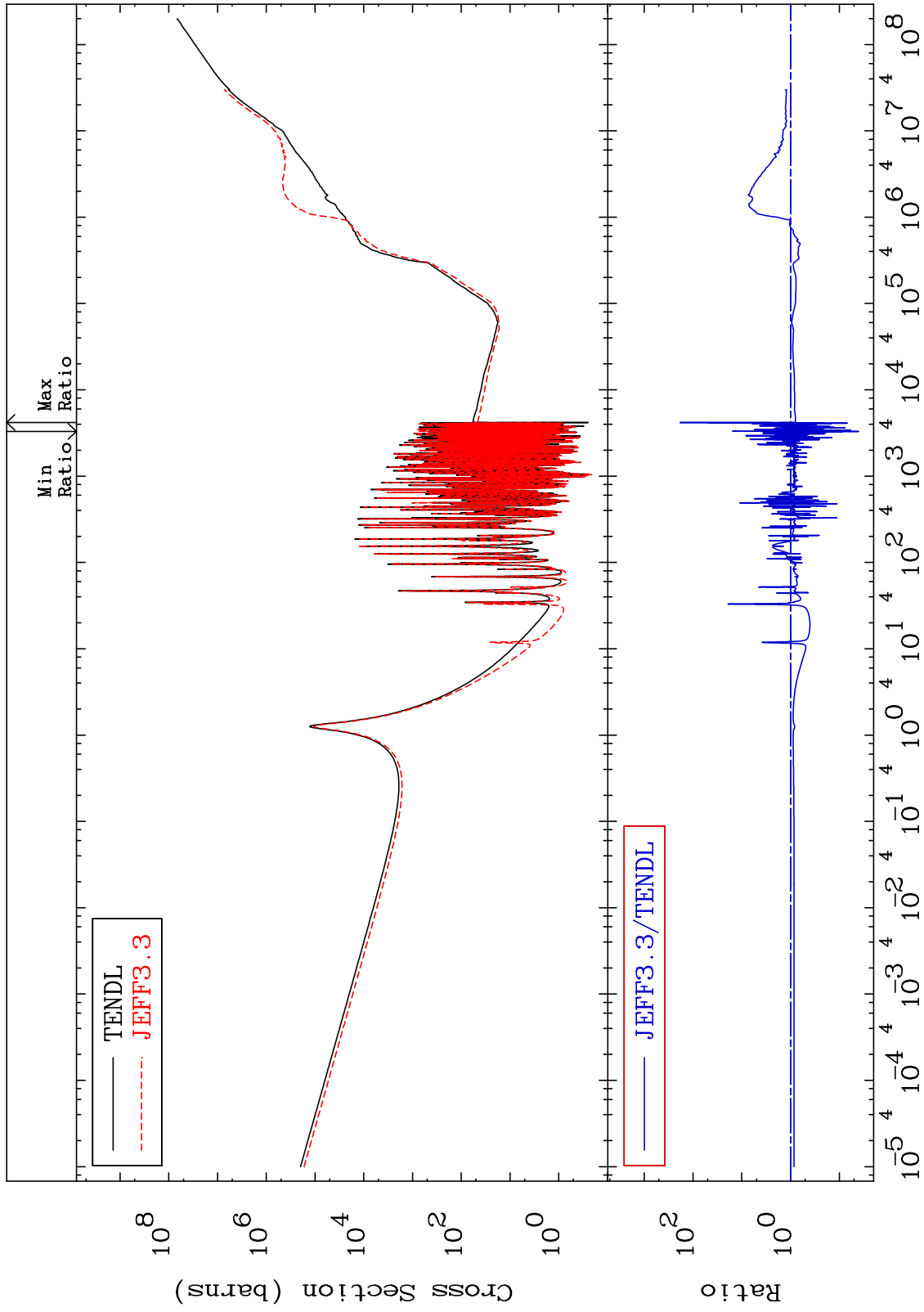
Incident Energy (eV)

45-Rh-103

MAT 4525

Kerma non-elastic (all but mt2)  
Cross Section

45-Rh-103  
-95.93 To 9999. %



55

Incident Energy (eV)

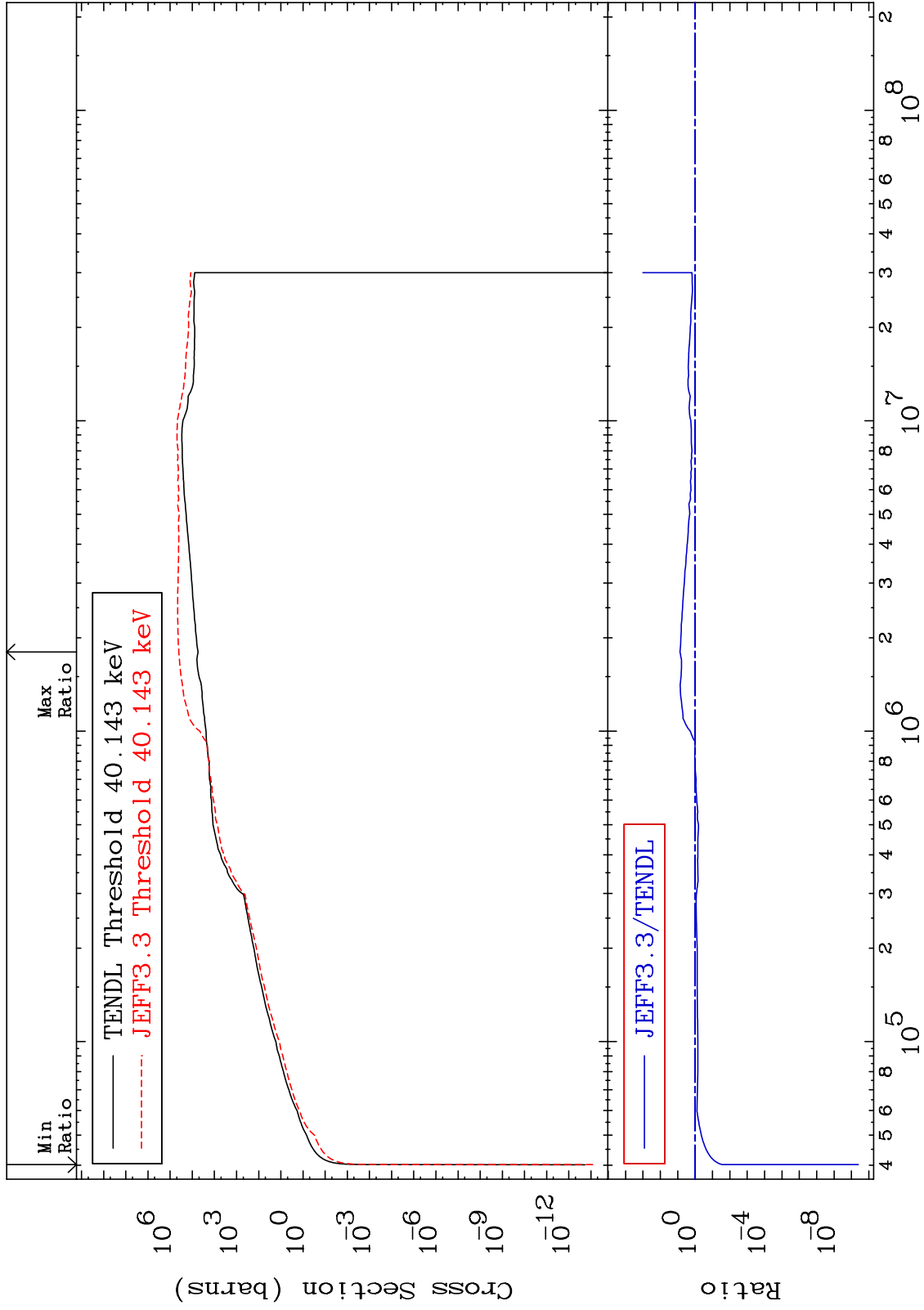
45-Rh-103



MAT 4525

Kerma inelastic (mt51-91)  
Cross Section

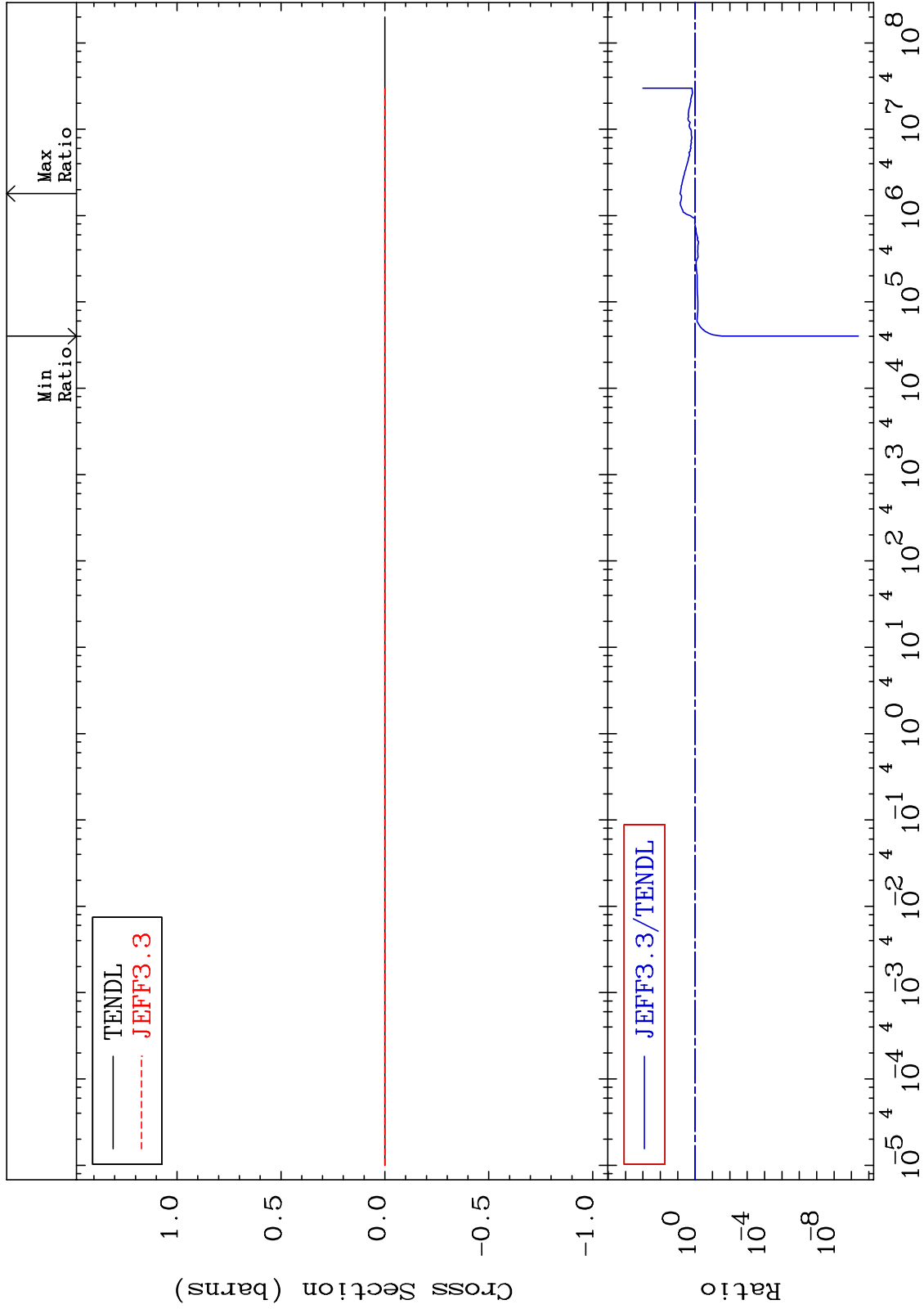
45-Rh-103  
-100.0 To 635.6 %



MAT 4525

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

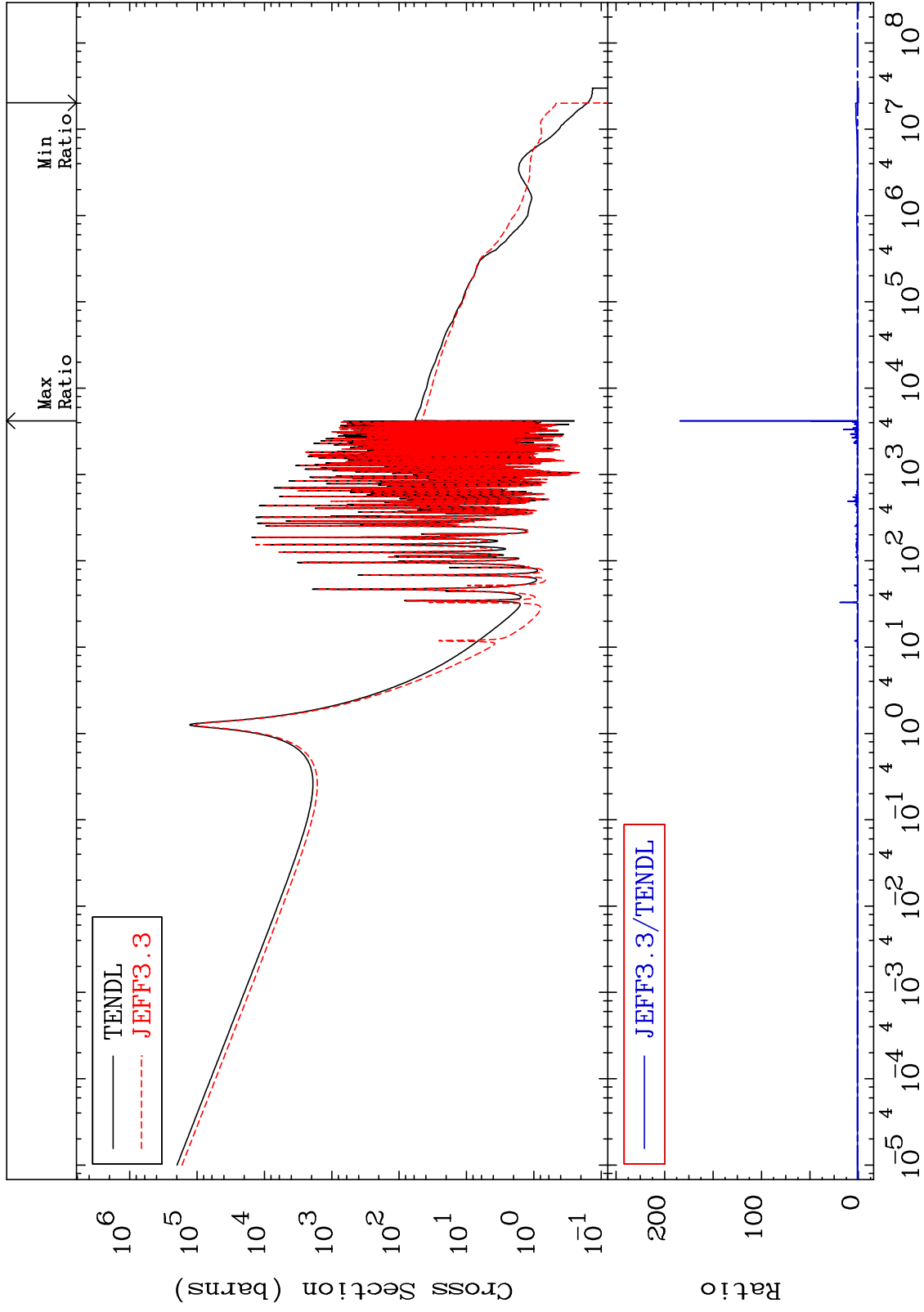
45-Rh-103  
-100.0 To 635.6 %



MAT 4525

Kerma capture (mt102)  
Cross Section

45-Rh-103  
-100.0 To 9999. %



58

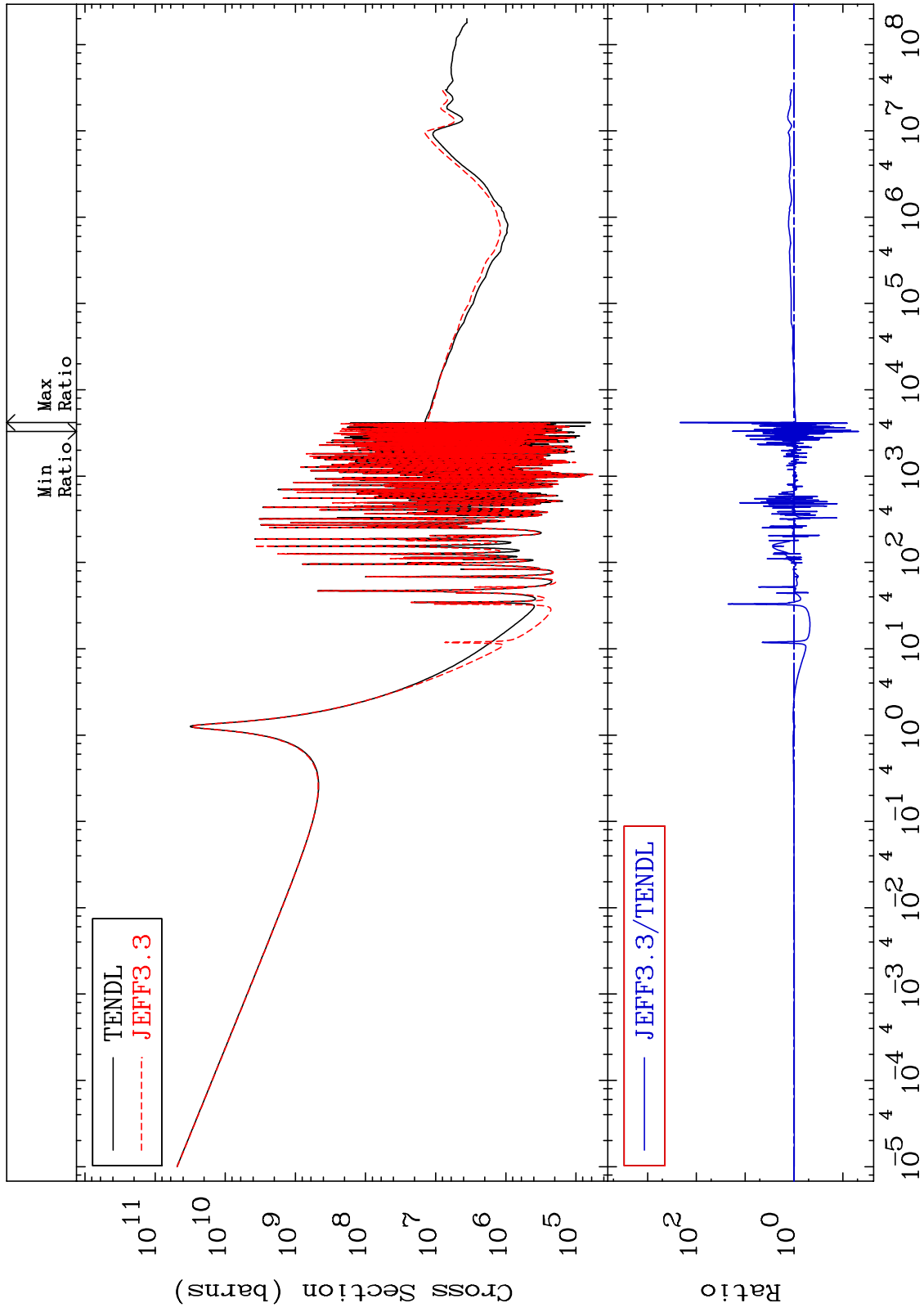
Incident Energy (eV)

45-Rh-103

MAT 4525

Total photon (eV-barns)  
Cross Section

45-Rh-103  
-95.22 To 9999. %



59

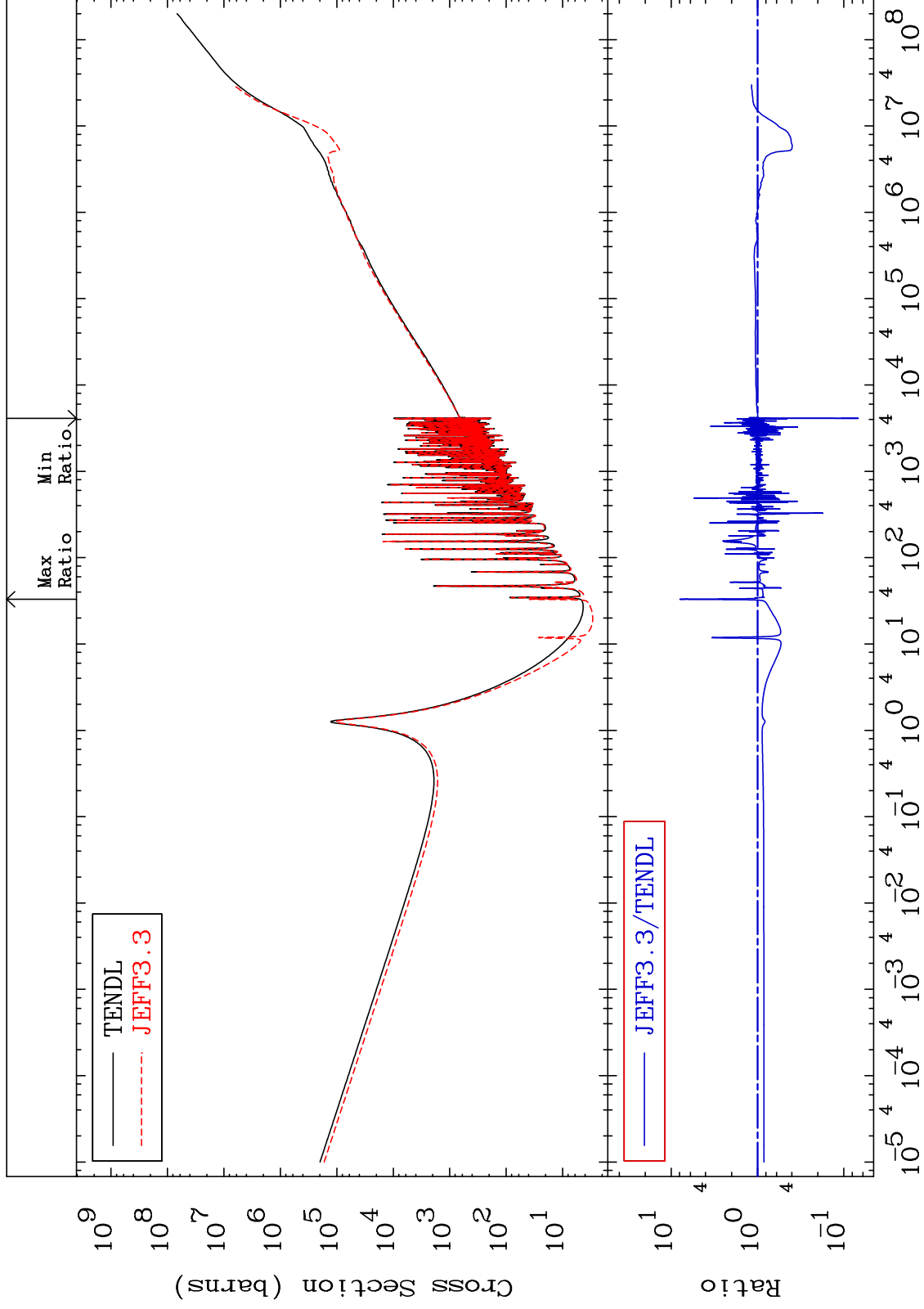
Incident Energy (eV)

45-Rh-103

MAT 4525

Total kinematic kerma (high limit)  
Cross Section

45-Rh-103  
-93.22 To 690.9 %



60

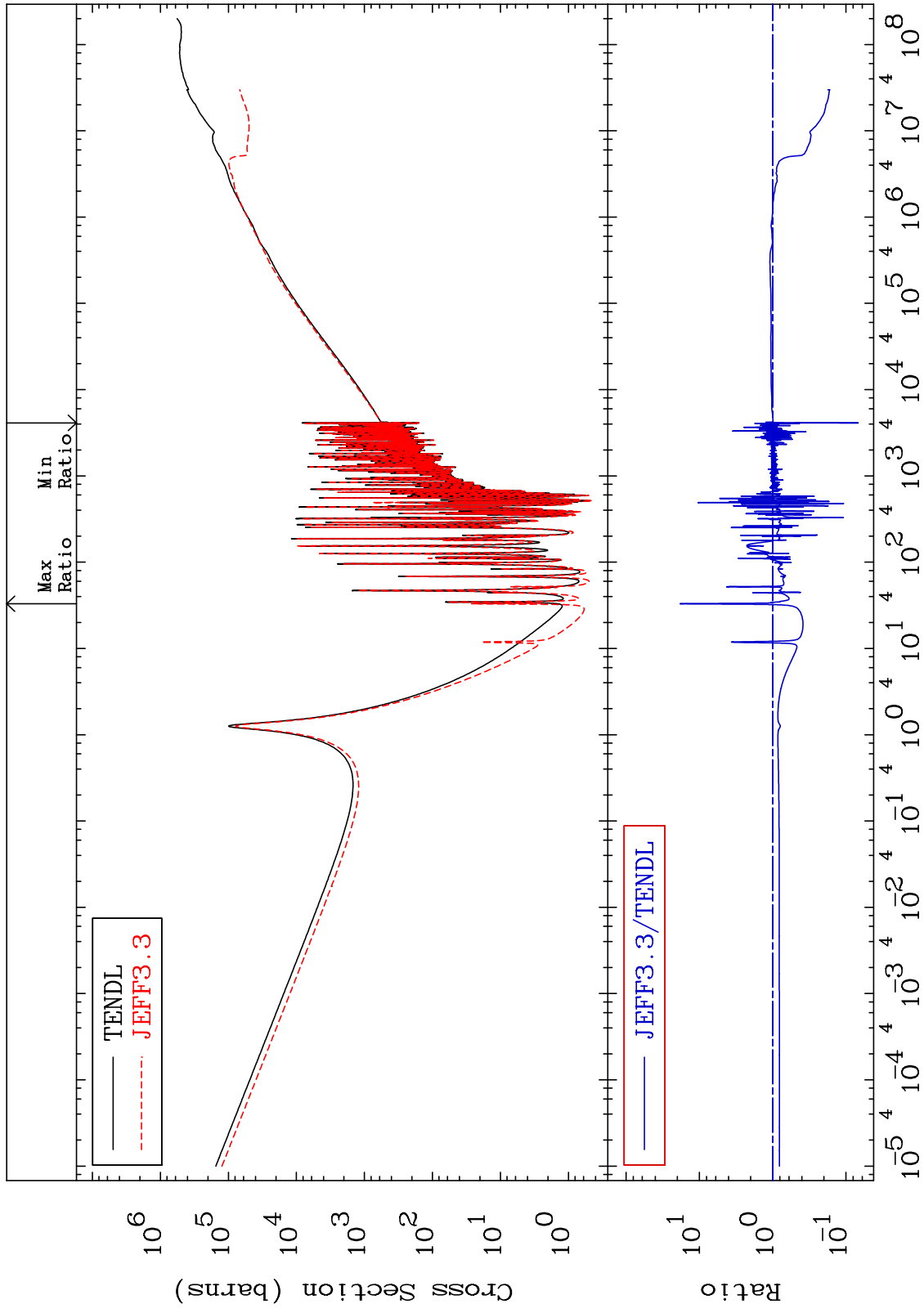
Incident Energy (eV)

45-Rh-103

MAT 4525

Dpa total (eV-barns)  
Cross Section

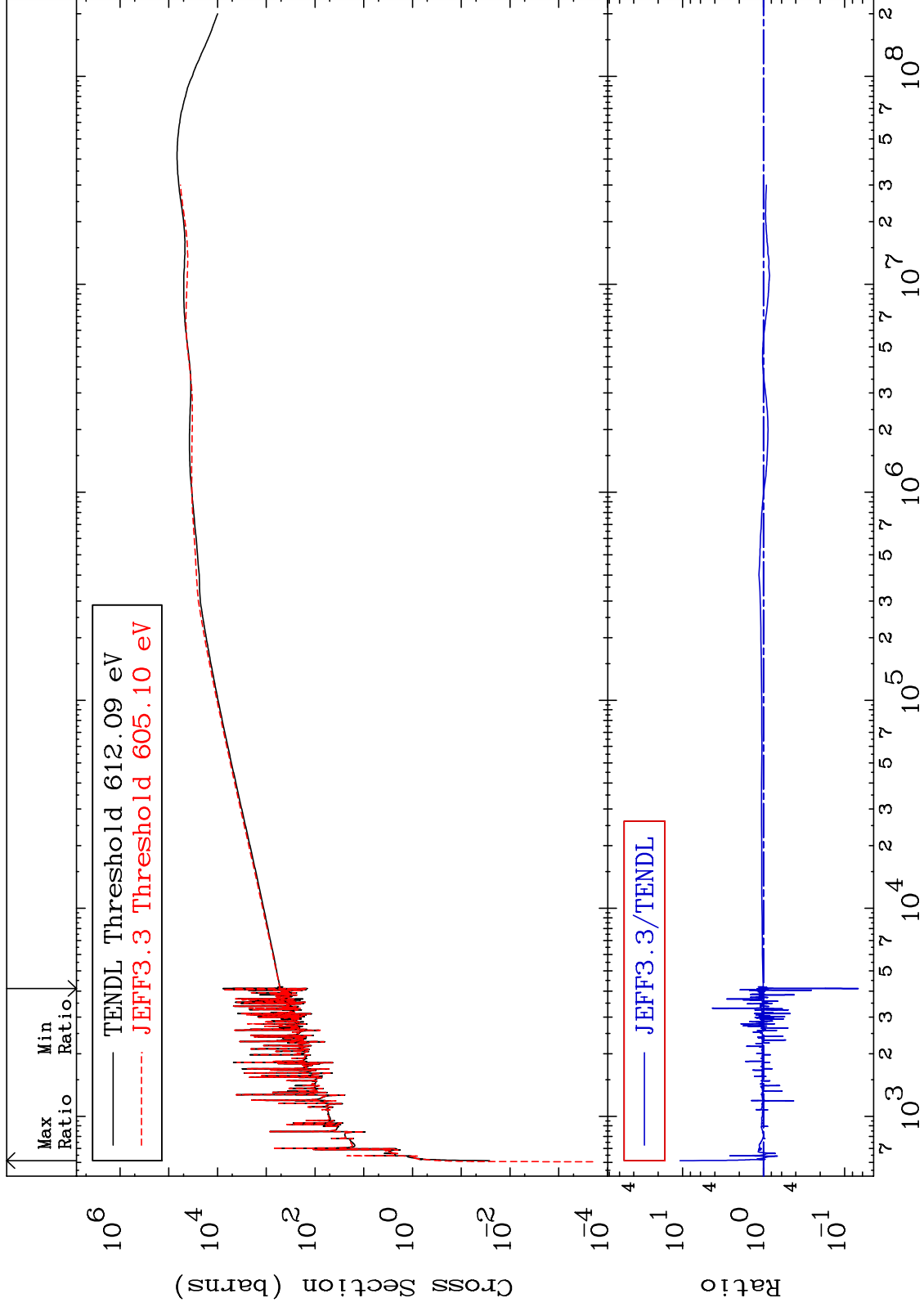
45-Rh-103  
-93.24 To 1736. %



MAT 4525

Dpa elastic (mt2)  
Cross Section

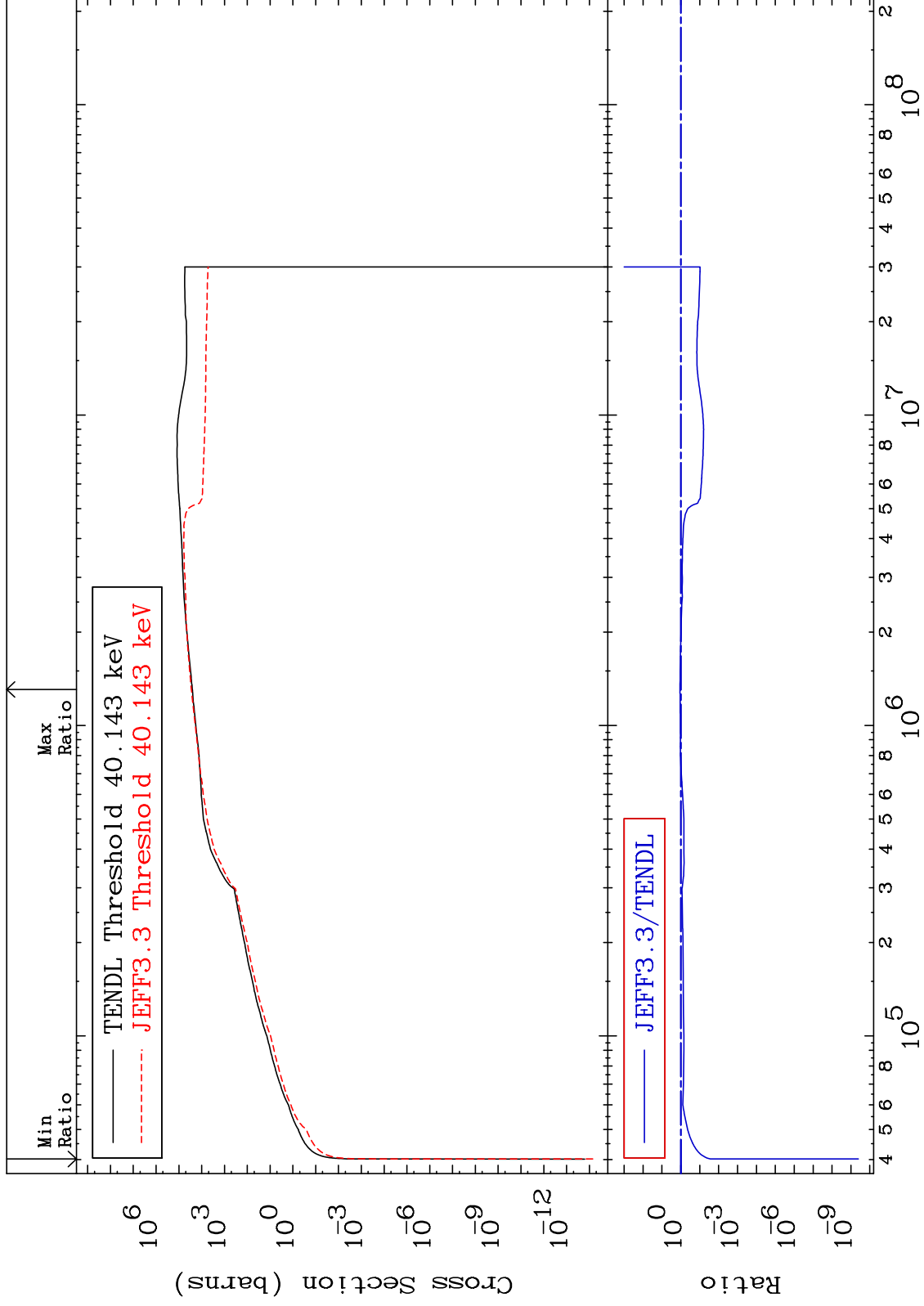
45-Rh-103  
-93.24 To 973.6 %



MAT 4525

Dpa inelastic (mt51-91)  
Cross Section

45-Rh-103  
-100.0 To 10.38 %

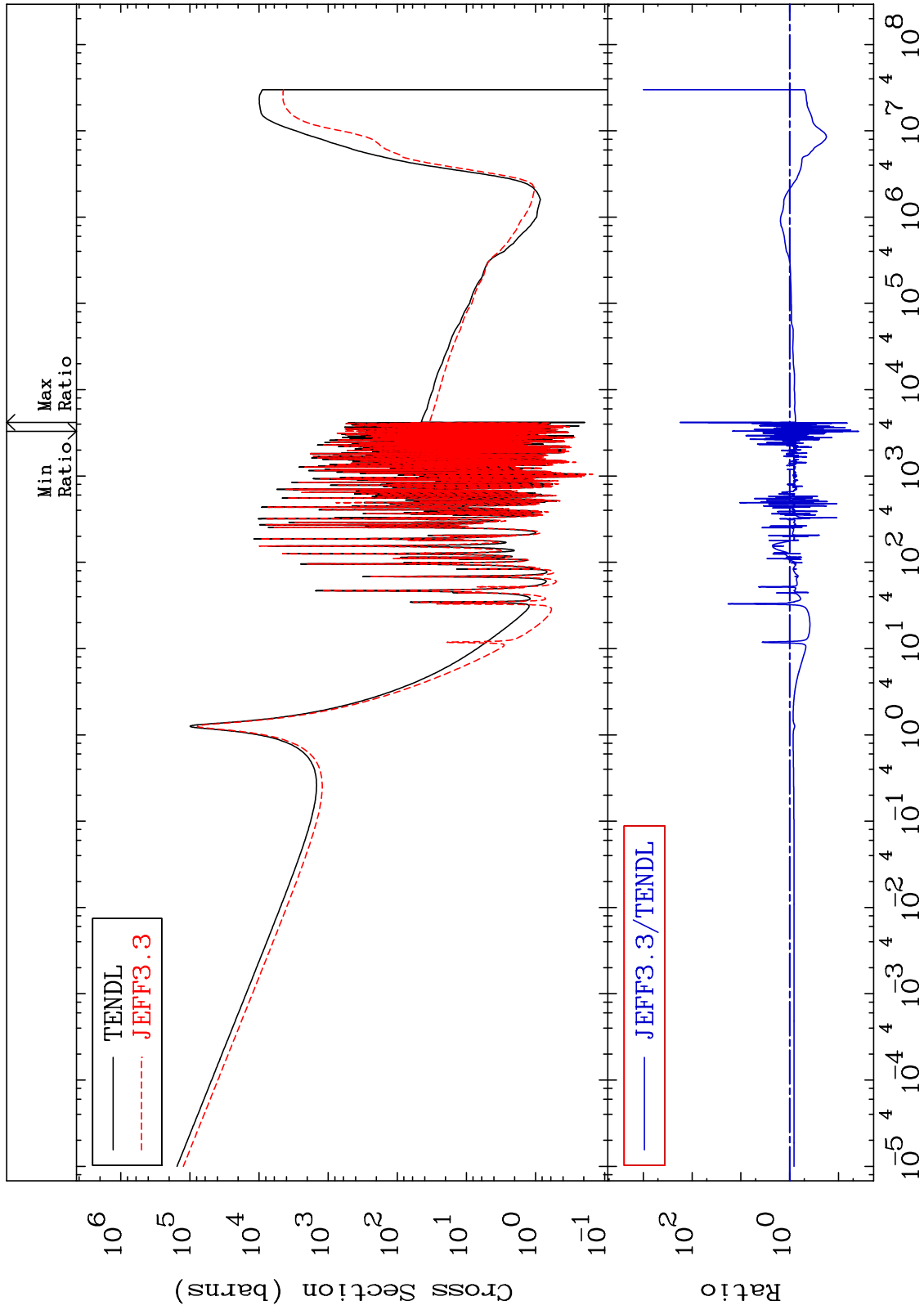




MAT 4525

Dpa disappearance (mt102 -120)  
Cross Section

45-Rh-103  
-96.10 To 9999. %

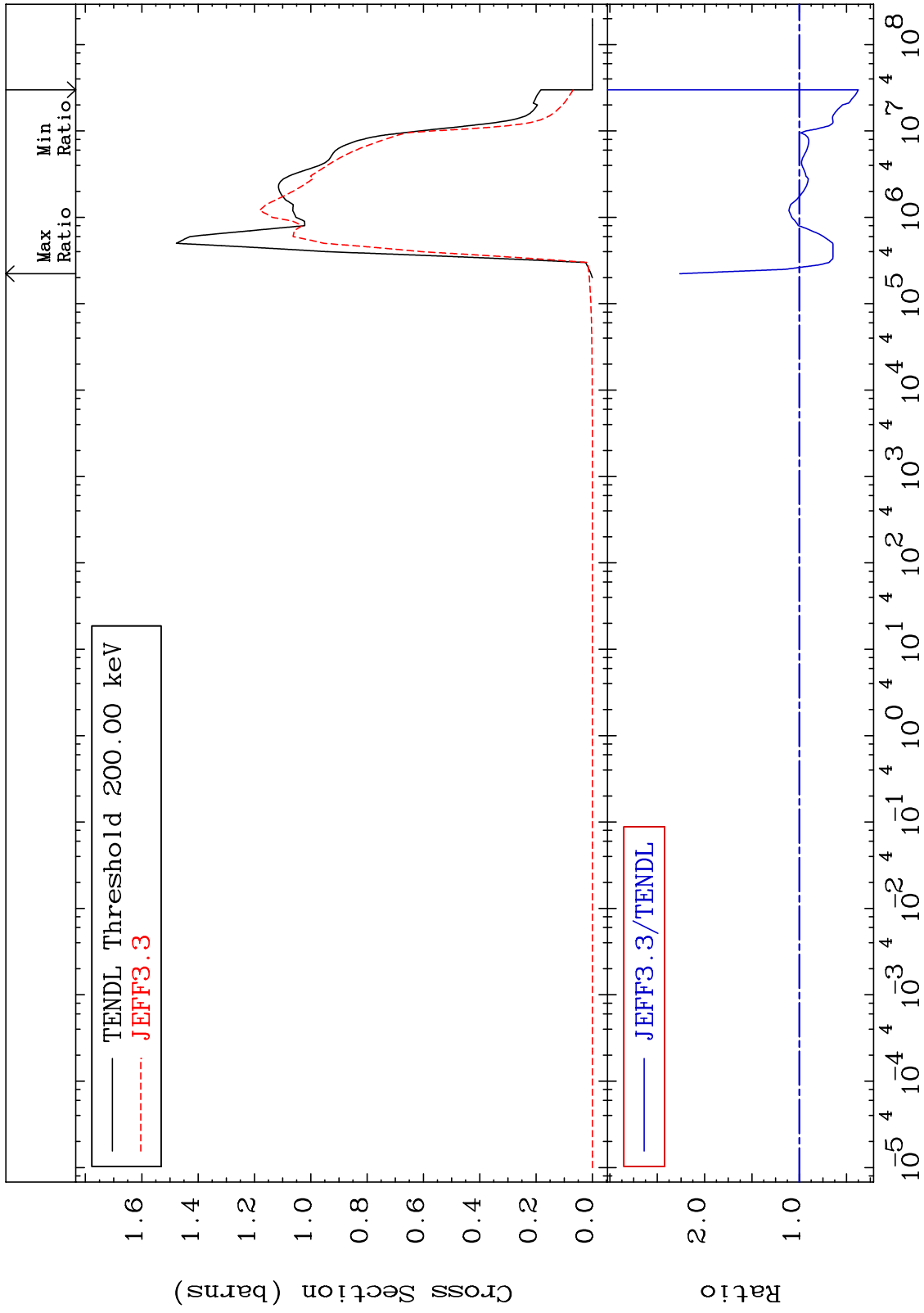


MAT 4525

Inelastic: 45-Rh-103g

45-Rh-103

Radionuclide Production Cross Section -62.44 To 126.2 %



65

Incident Energy (eV)

45-Rh-103

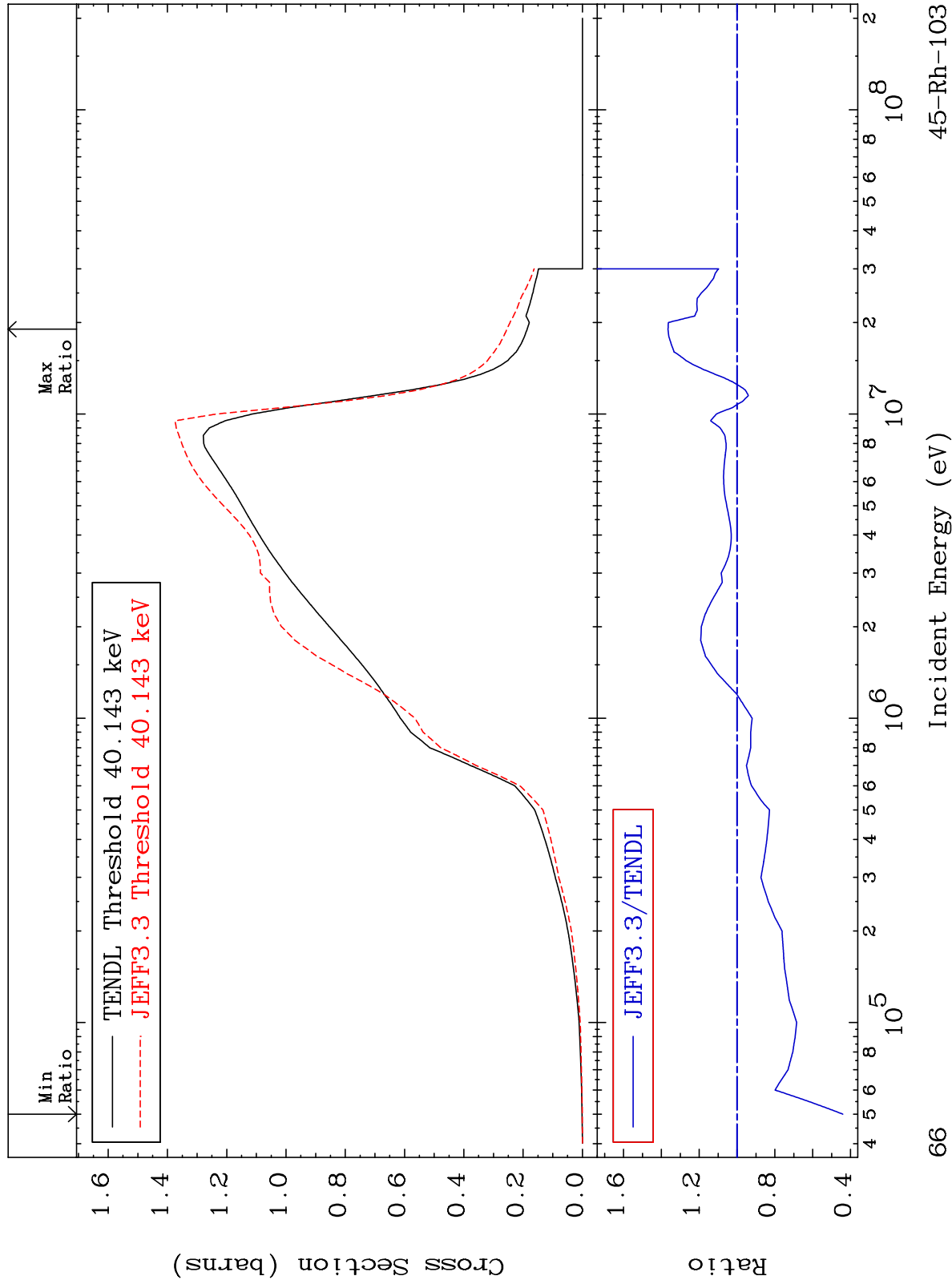
MAT 4525

Inelastic:45-Rh-103m1

45-Rh-103

Radionuclide Production Cross Section

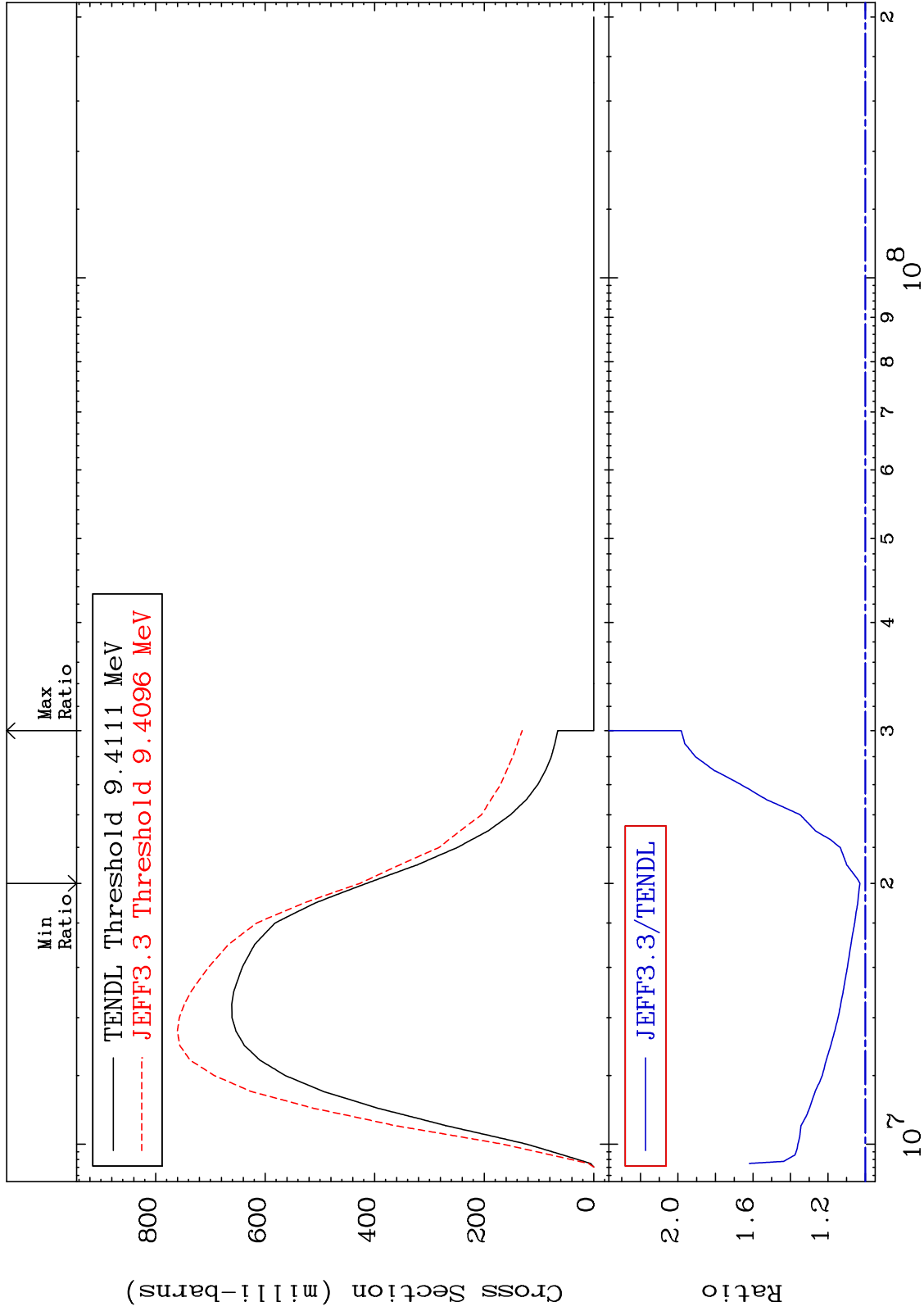
-55.93 To 36.47 %



MAT 4525

45-Rh-103

(n,2n) : 45-Rh-102g  
Radionuclide Production Cross Section 2.902 To 98.27 %



45-Rh-103

Incident Energy (eV)

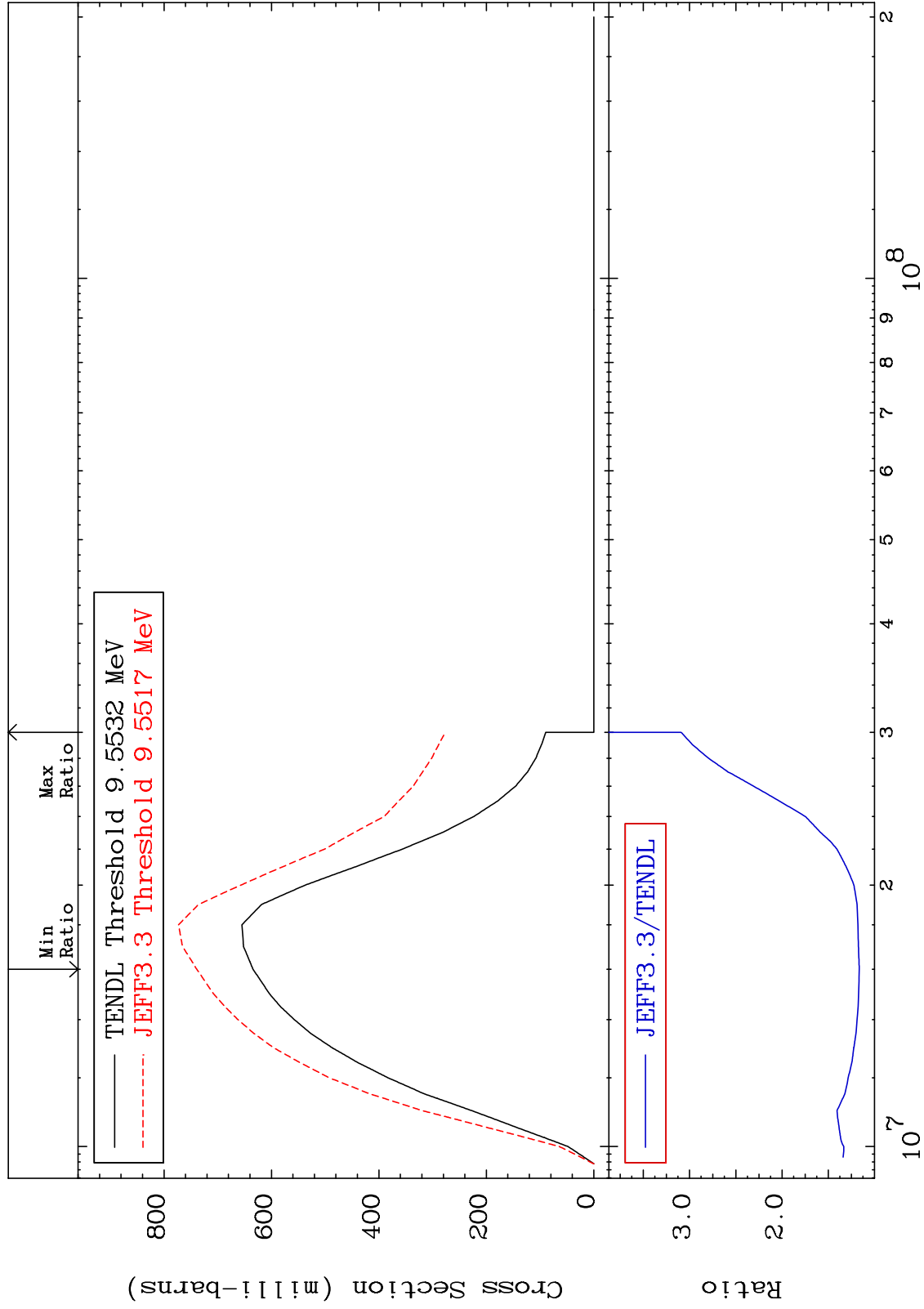
67

MAT 4525

(n, 2n) : 45-Rh-102m5

45-Rh-103

Radionuclide Production Cross Section 16.51 To 209.2 %



68

Incident Energy (eV)

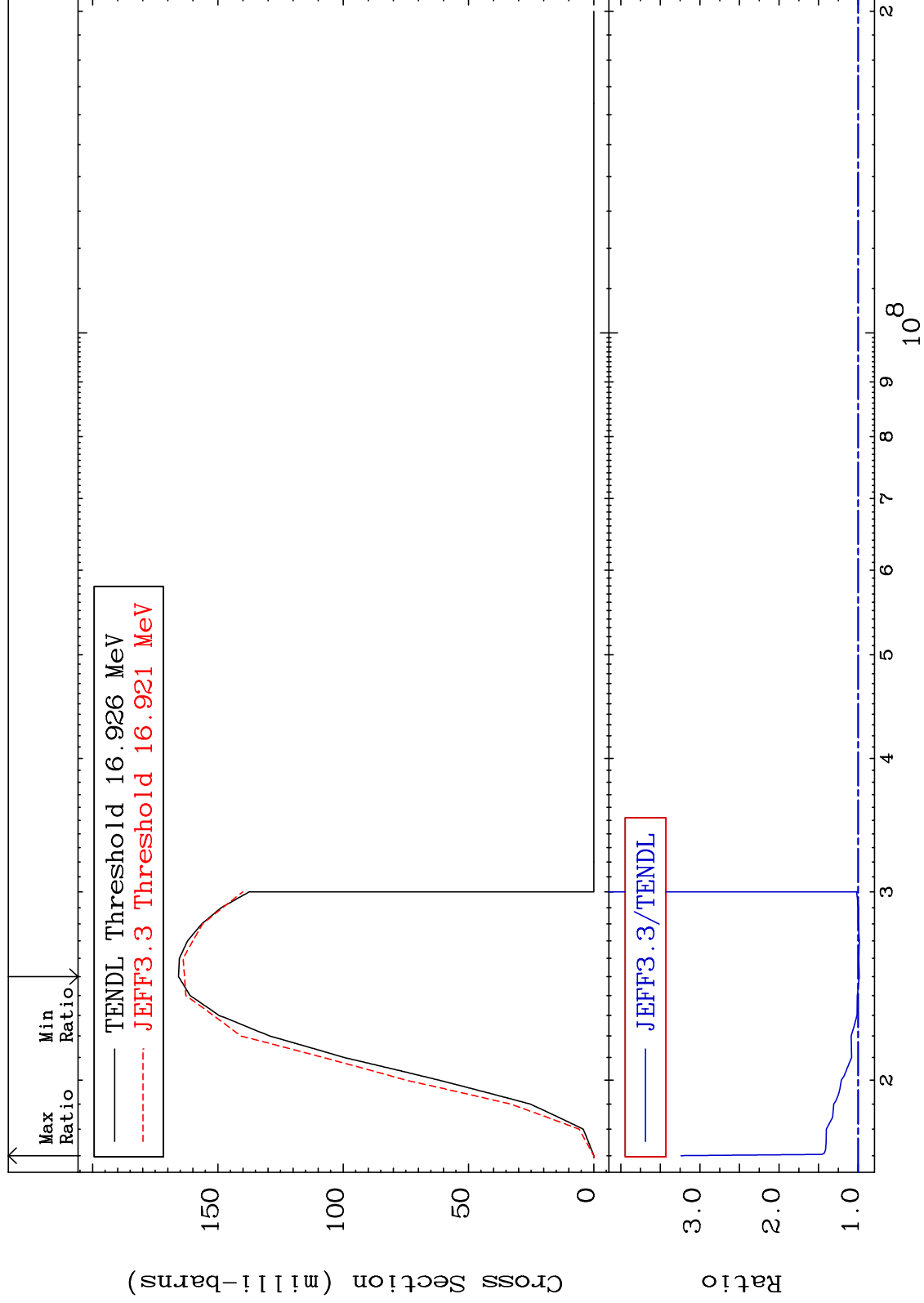
45-Rh-103

MAT 4525

(n,3n):45-Rh-101g

45-Rh-103

Radionuclide Production Cross Section -1.437 To 223.8 %

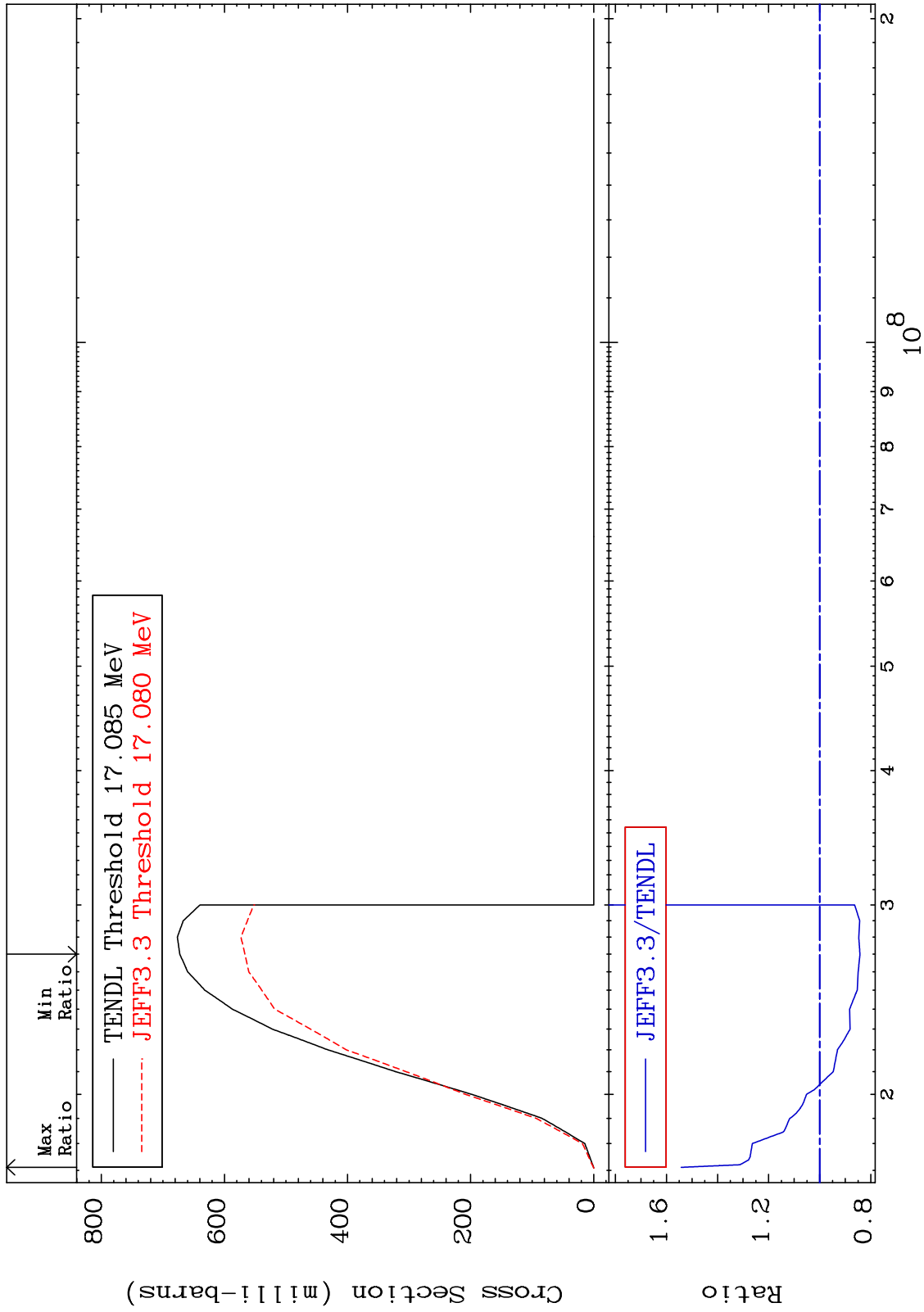


MAT 4525

(n, 3n) : 45-Rh-101m1

45-Rh-103

Radionuclide Production Cross Section -15.73 To 54.21 %



70

Incident Energy (eV)

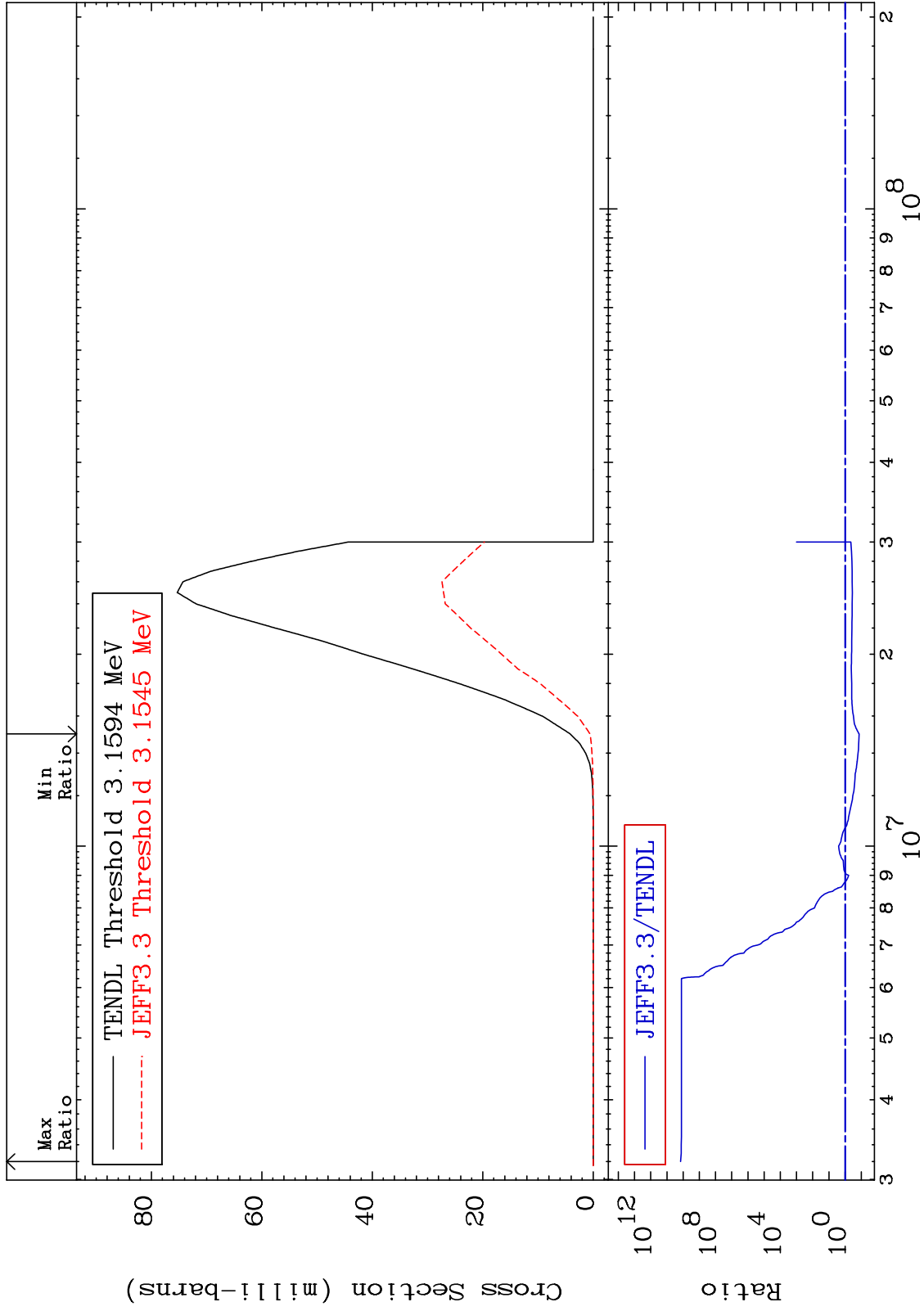
45-Rh-103

MAT 4525

(n, n')  $\alpha$ : 43-Tc-99g

45-Rh-103

Radionuclide Production Cross Section -86.43 To 9999. %



45-Rh-103

Incident Energy (eV)

71

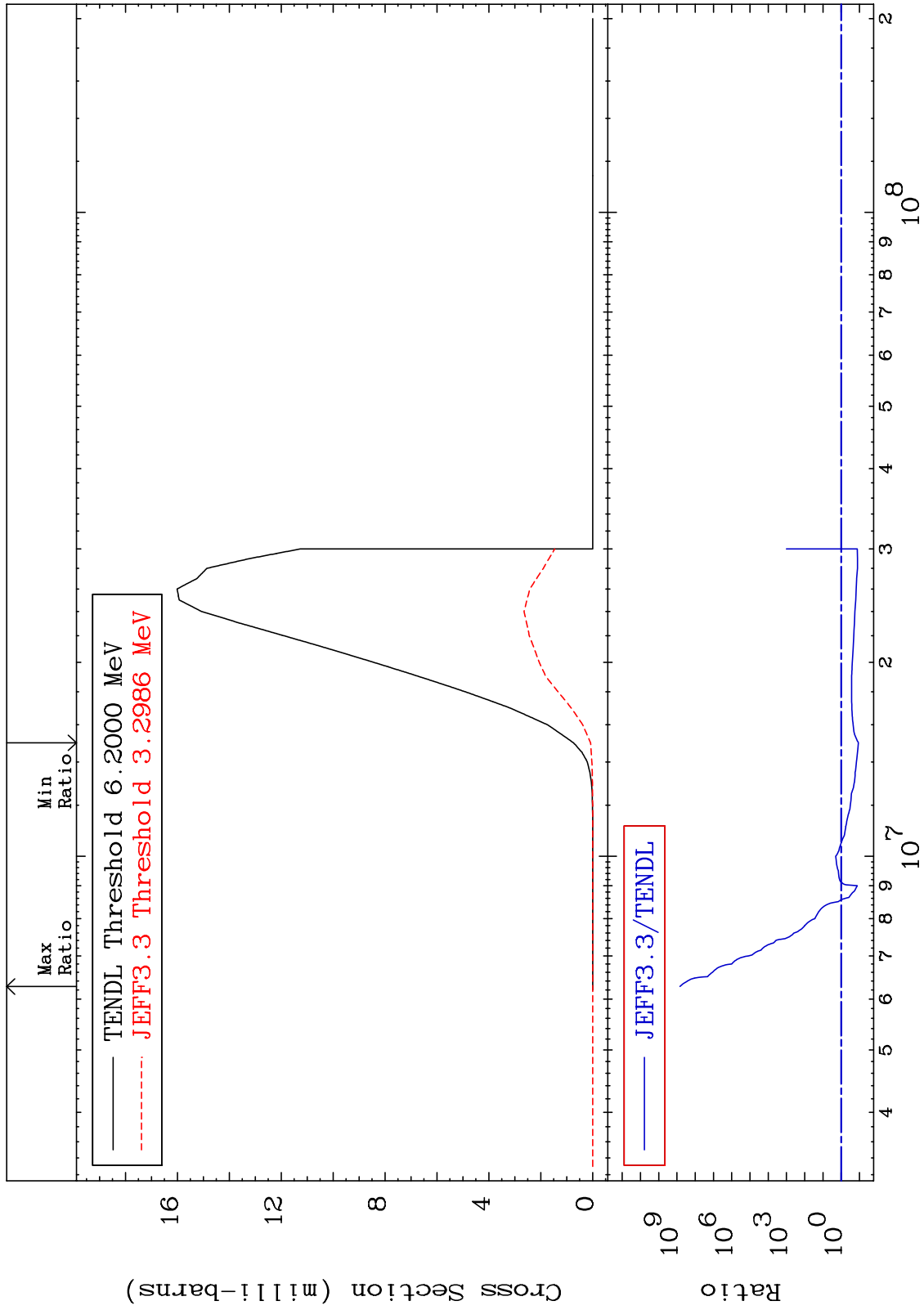


MAT 4525

(n, n')  $\alpha$ :43-Tc-99m2

45-Rh-103

Radionuclide Production Cross Section -88.63 To 9999. %



72

Incident Energy (eV)

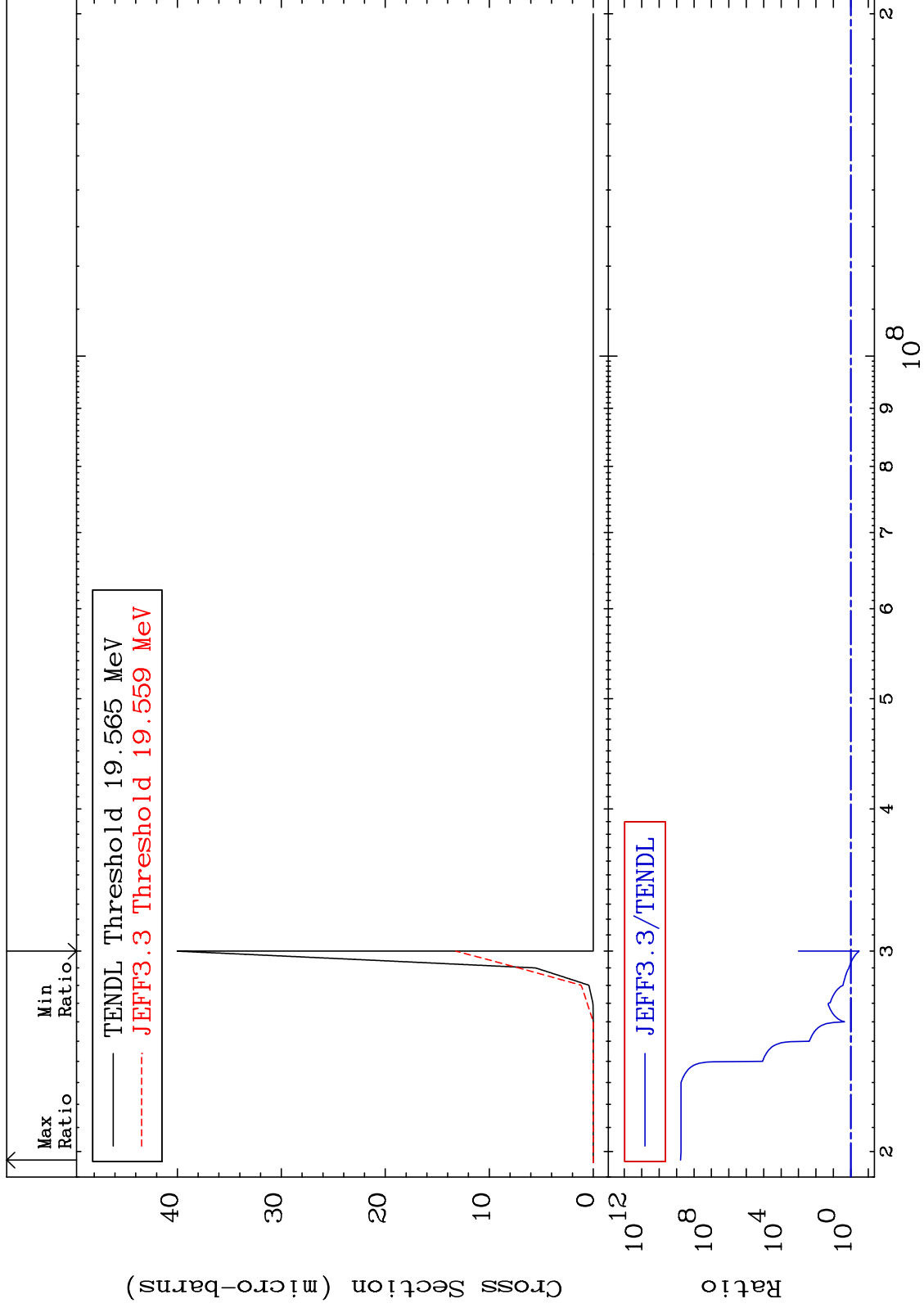
45-Rh-103

MAT 4525

(n,3n)  $\alpha$ : 43-Tc-97g

45-Rh-103

Radionuclide Production Cross Section -67.02 To 9999. %



73

Incident Energy (eV)

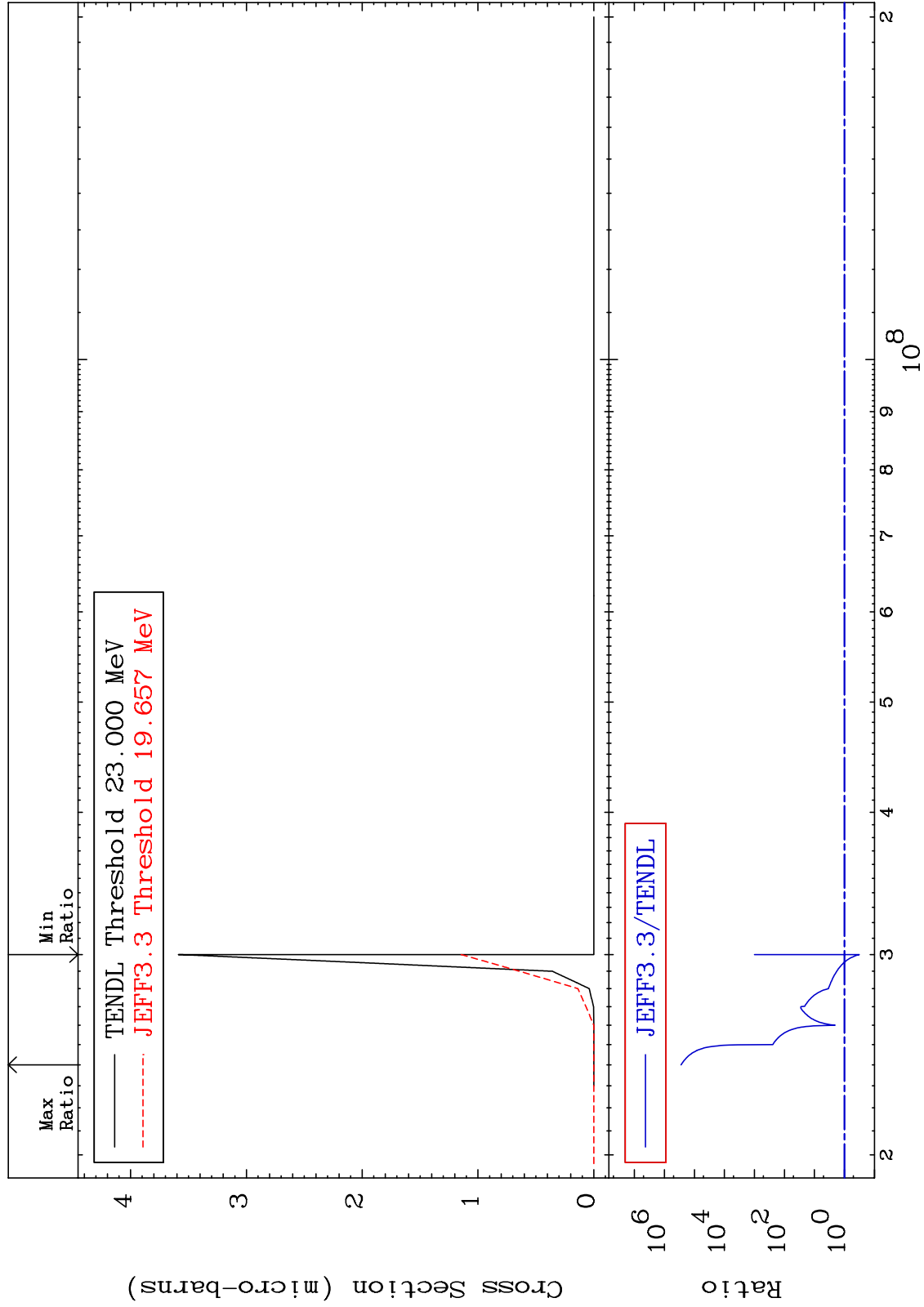
45-Rh-103

MAT 4525

(n,3n)  $\alpha$ :43-Tc-97m1

45-Rh-103

Radionuclide Production Cross Section -68.04 To 9999. %

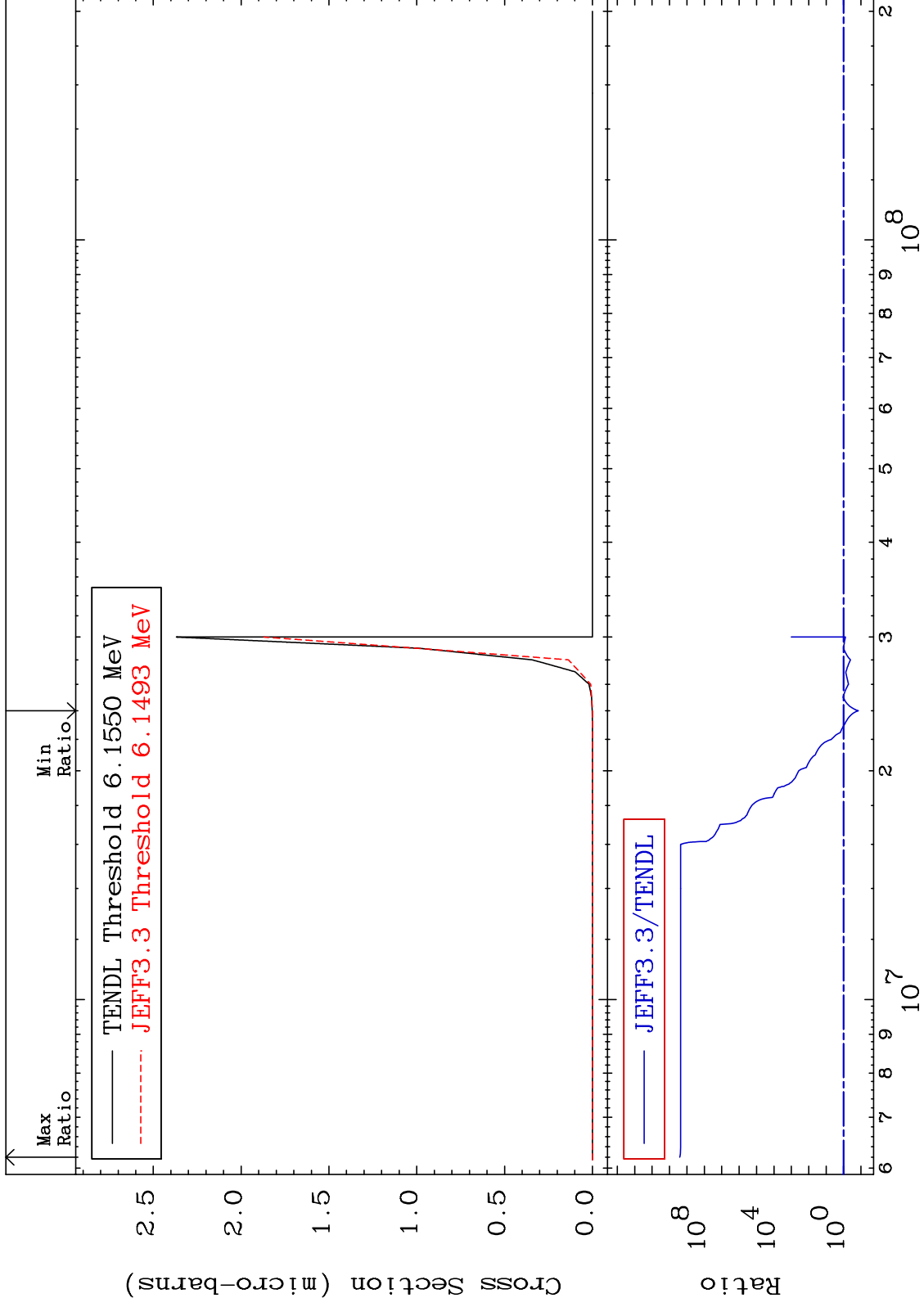


MAT 4525

(n, n') 2α: 41-Nb-95g

45-Rh-103

Radionuclide Production Cross Section -85.85 To 9999. %



75

Incident Energy (eV)

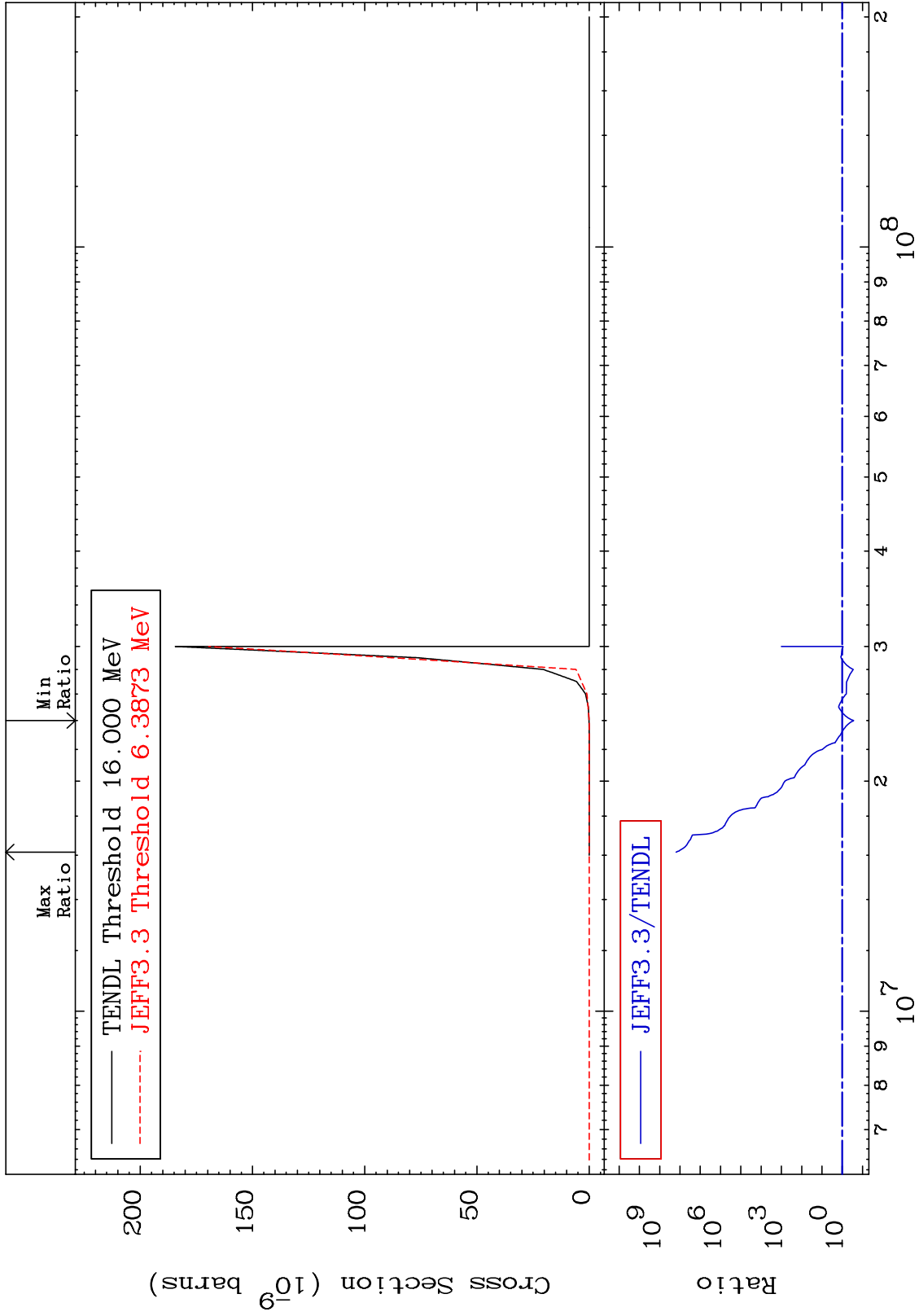
45-Rh-103

MAT 4525

(n, n') 2α: 41-Nb-95m1

45-Rh-103

Radionuclide Production Cross Section -72.85 To 9999. %



76

Incident Energy (eV)

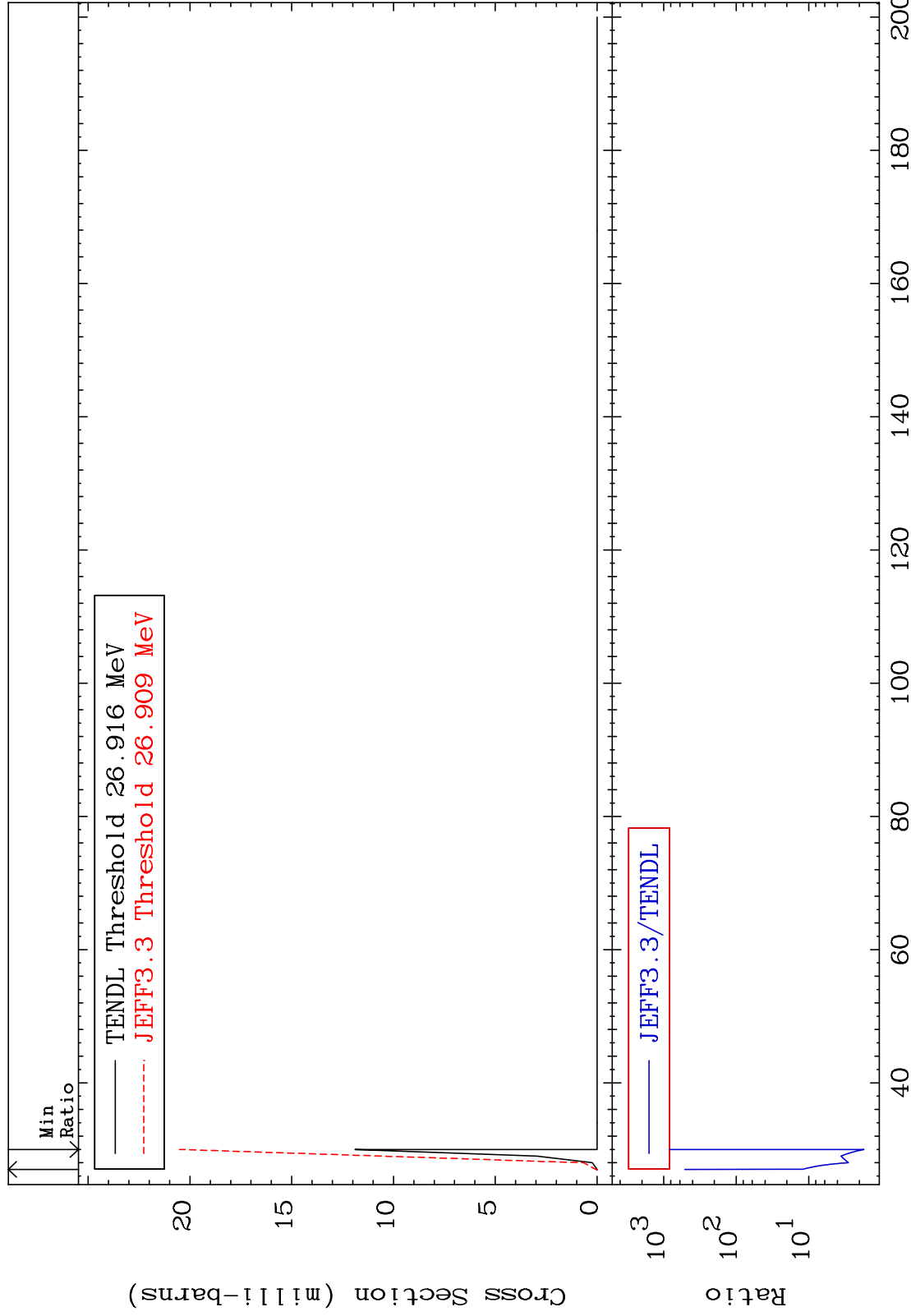
45-Rh-103

MAT 4525

(n,4n):45-Rh-100g

45-Rh-103

Radionuclide Production Cross Section 72.49 To 9999. %

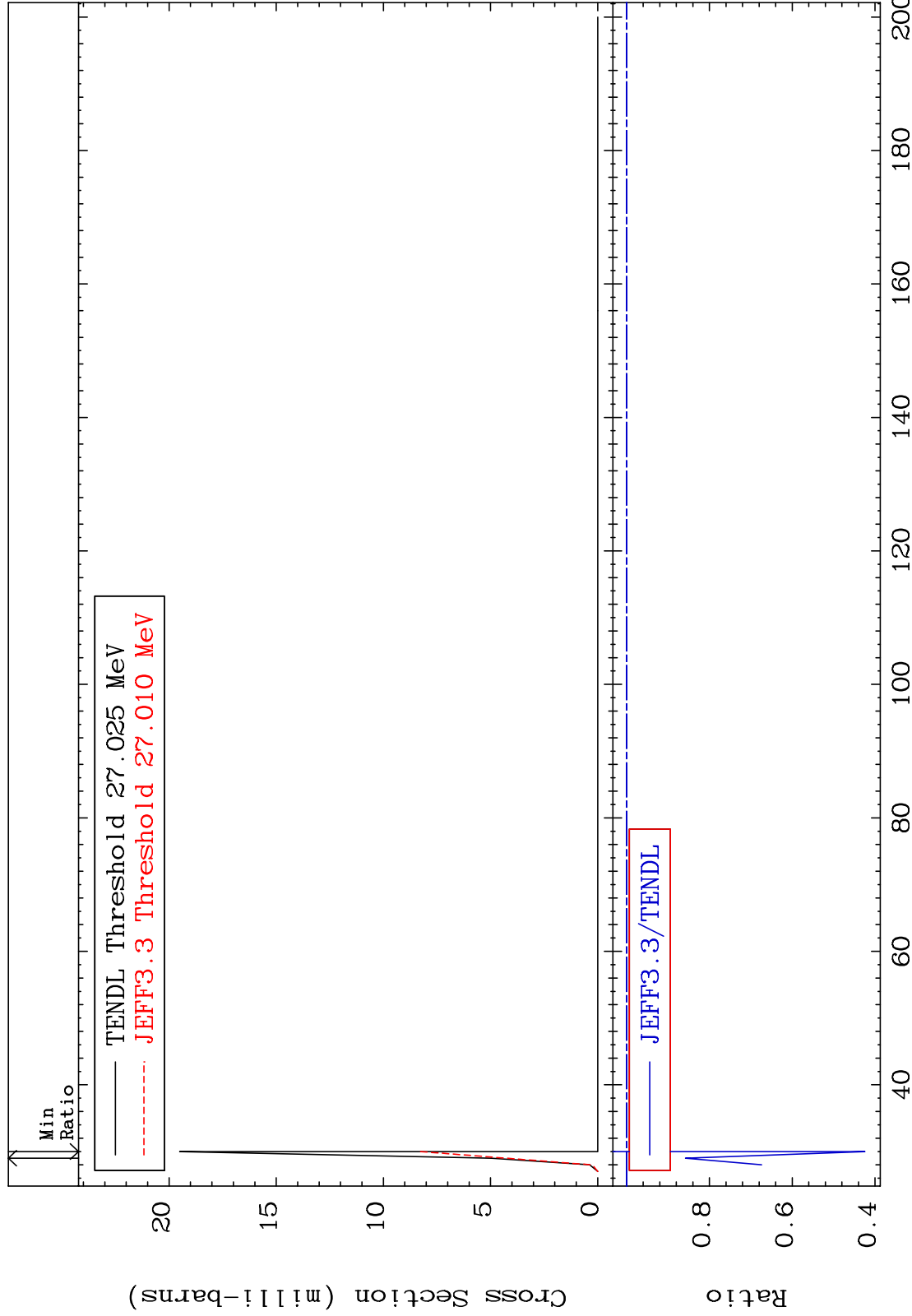


MAT 4525

(n, 4n) : 45-Rh-100m4

45-Rh-103

Radionuclide Production Cross Section -57.55 To -14.24%



78

Incident Energy (MeV)

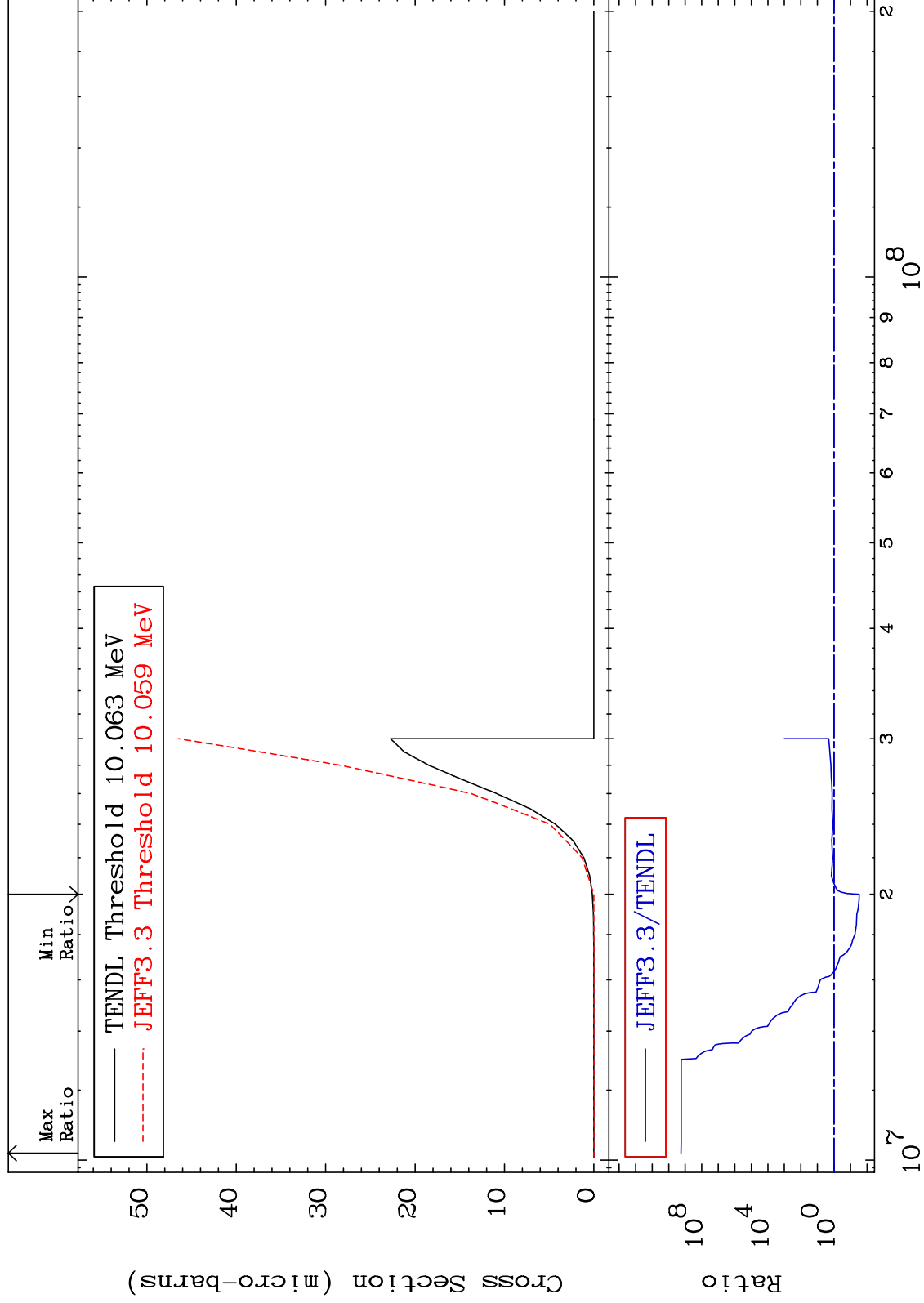
45-Rh-103

MAT 4525

(n,2p):43-Tc-102g

45-Rh-103

Radionuclide Production Cross Section -97.08 To 9999. %



79

Incident Energy (eV)

45-Rh-103



MAT 4525

(n,2p): 43-Tc-102m3

45-Rh-103

Radionuclide Production Cross Section -97.42 To 9999. %

