

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

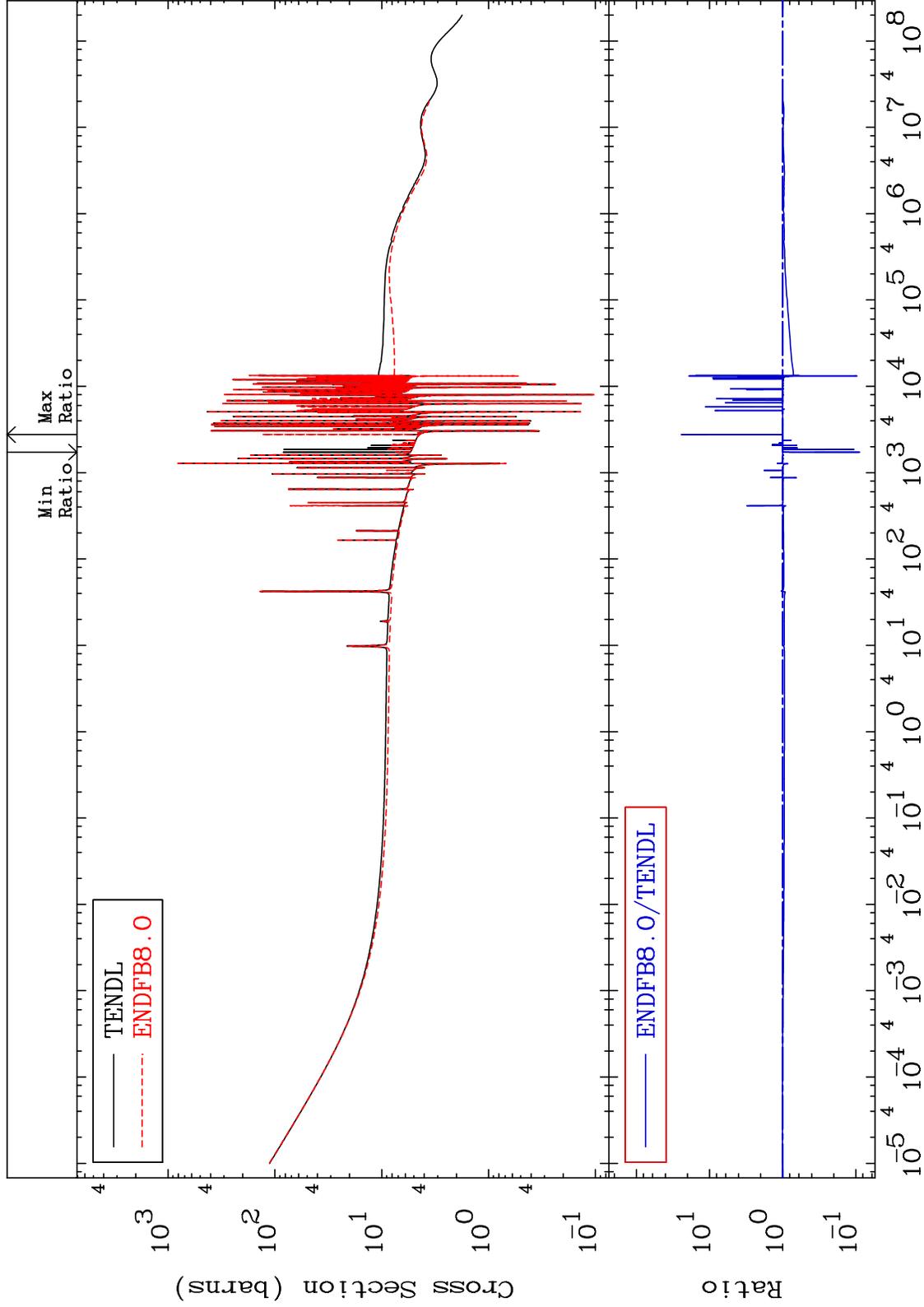
MAT 4443

Total

44-Ru-102

Cross Section

-91.19 To 2331. %



1

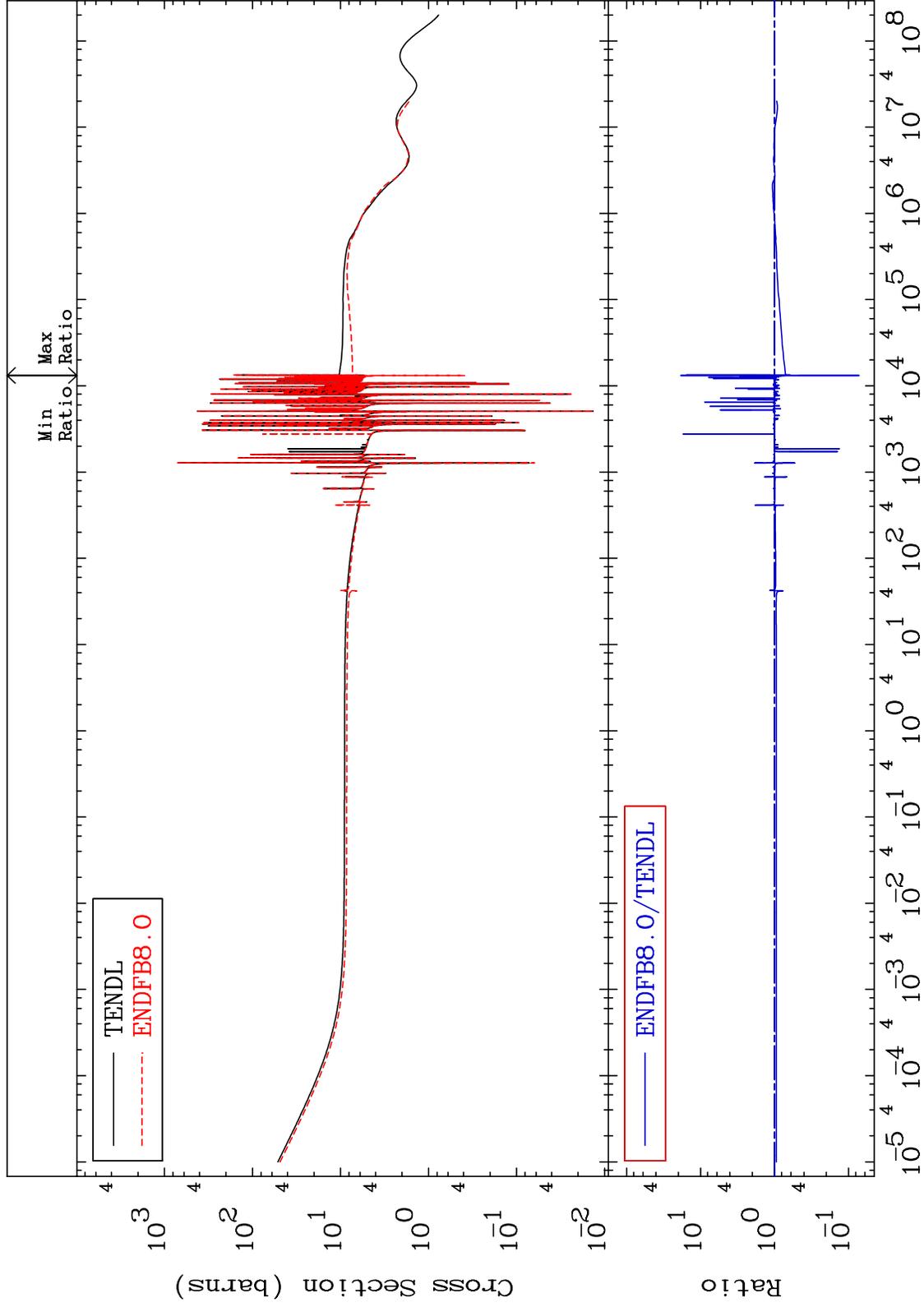
Incident Energy (eV)

44-Ru-102

MAT 4443

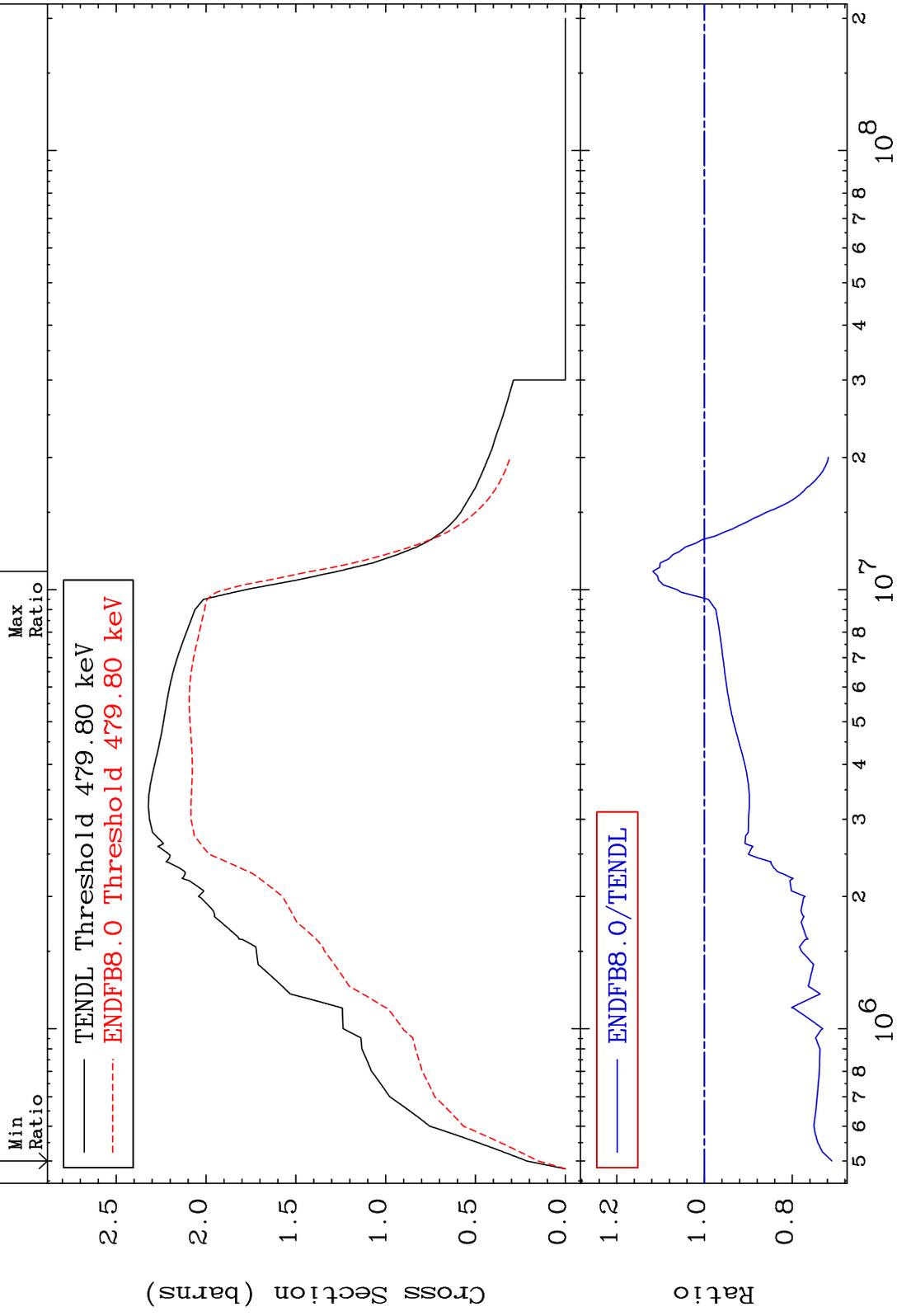
Elastic  
Cross Section

44-Ru-102  
-92.81 To 1759. %



MAT 4443 44-Ru-102 -29.02 To 11.75 %

Inelastic Cross Section



3 Incident Energy (eV) 44-Ru-102

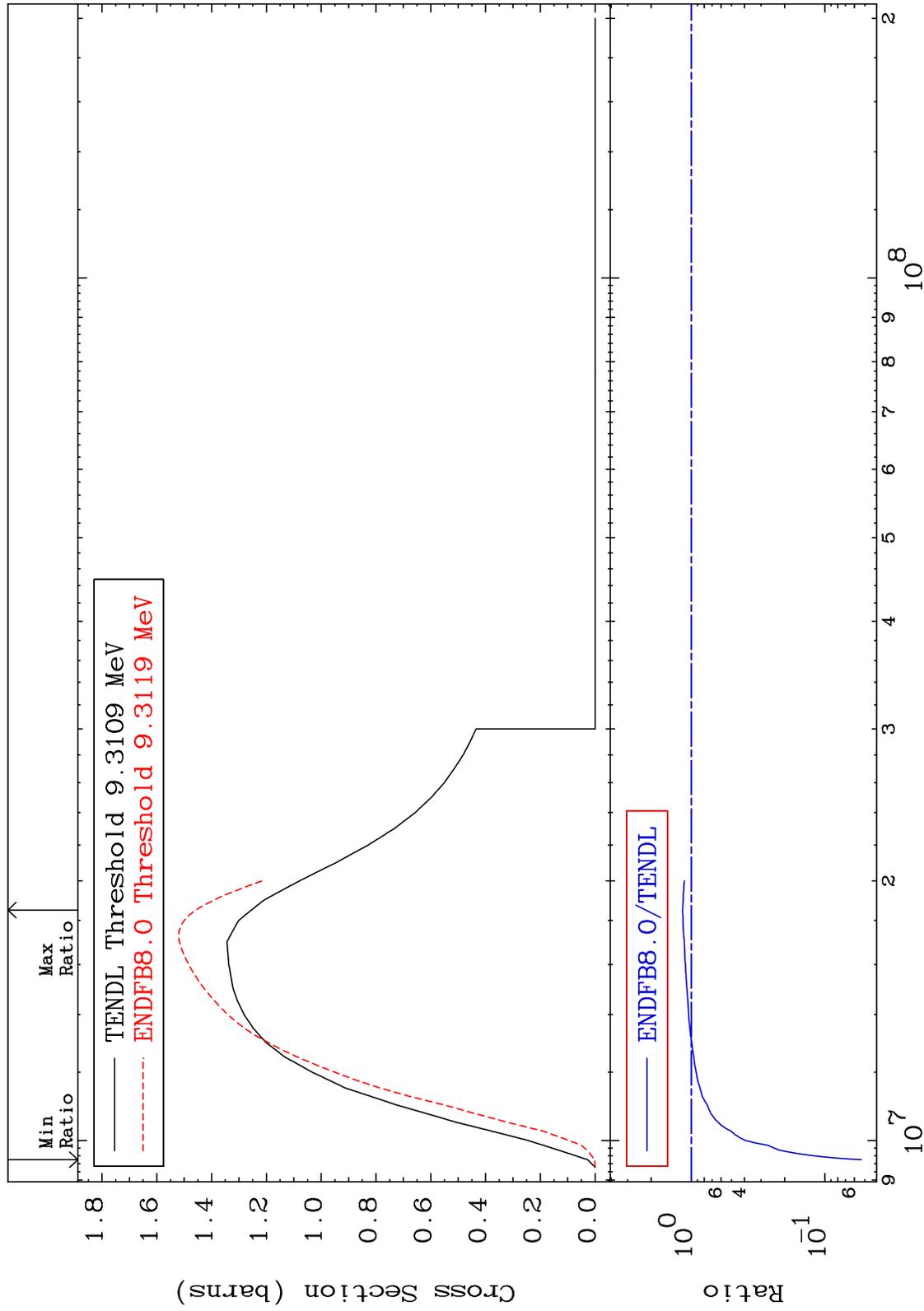
MAT 4443

(n,2n)

44-Ru-102

Cross Section

-94.68 To 16.21 %

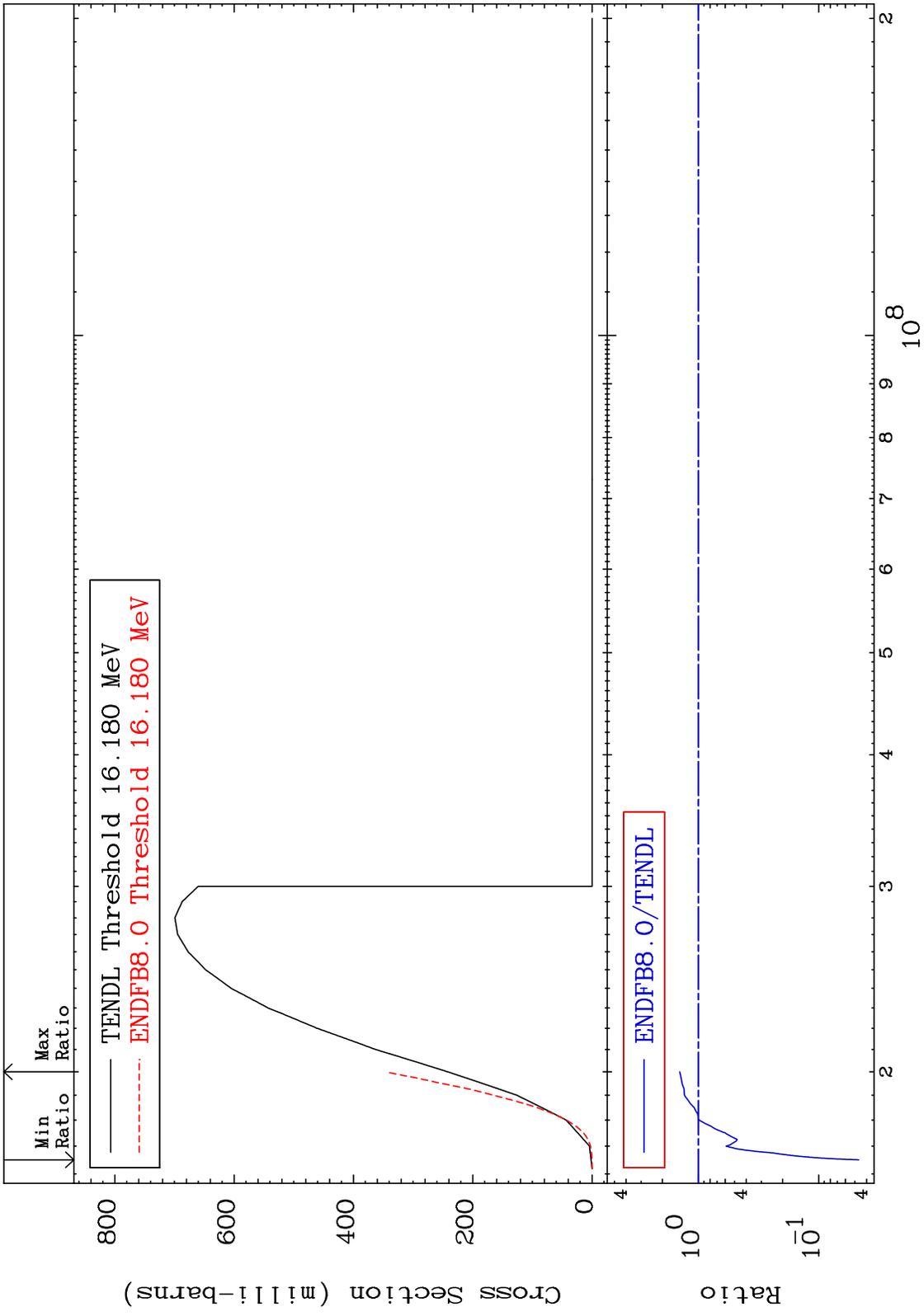


4

Incident Energy (eV)

44-Ru-102

MAT 4443 (n,3n) Cross Section 44-Ru-102 -95.36 To 43.21 %



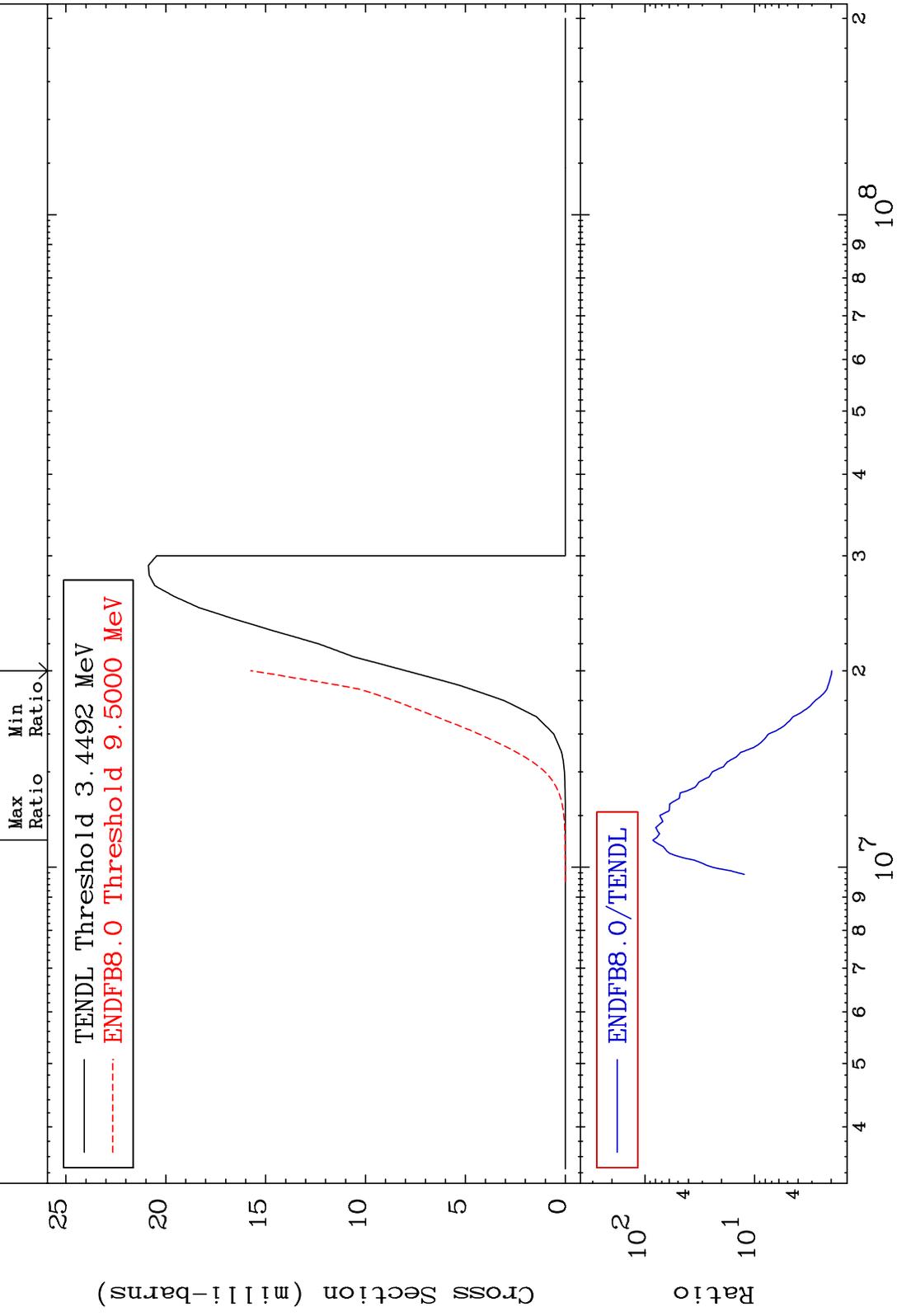
MAT 4443

(n, n')  $\alpha$

44-Ru-102

97.31 To 8357. %

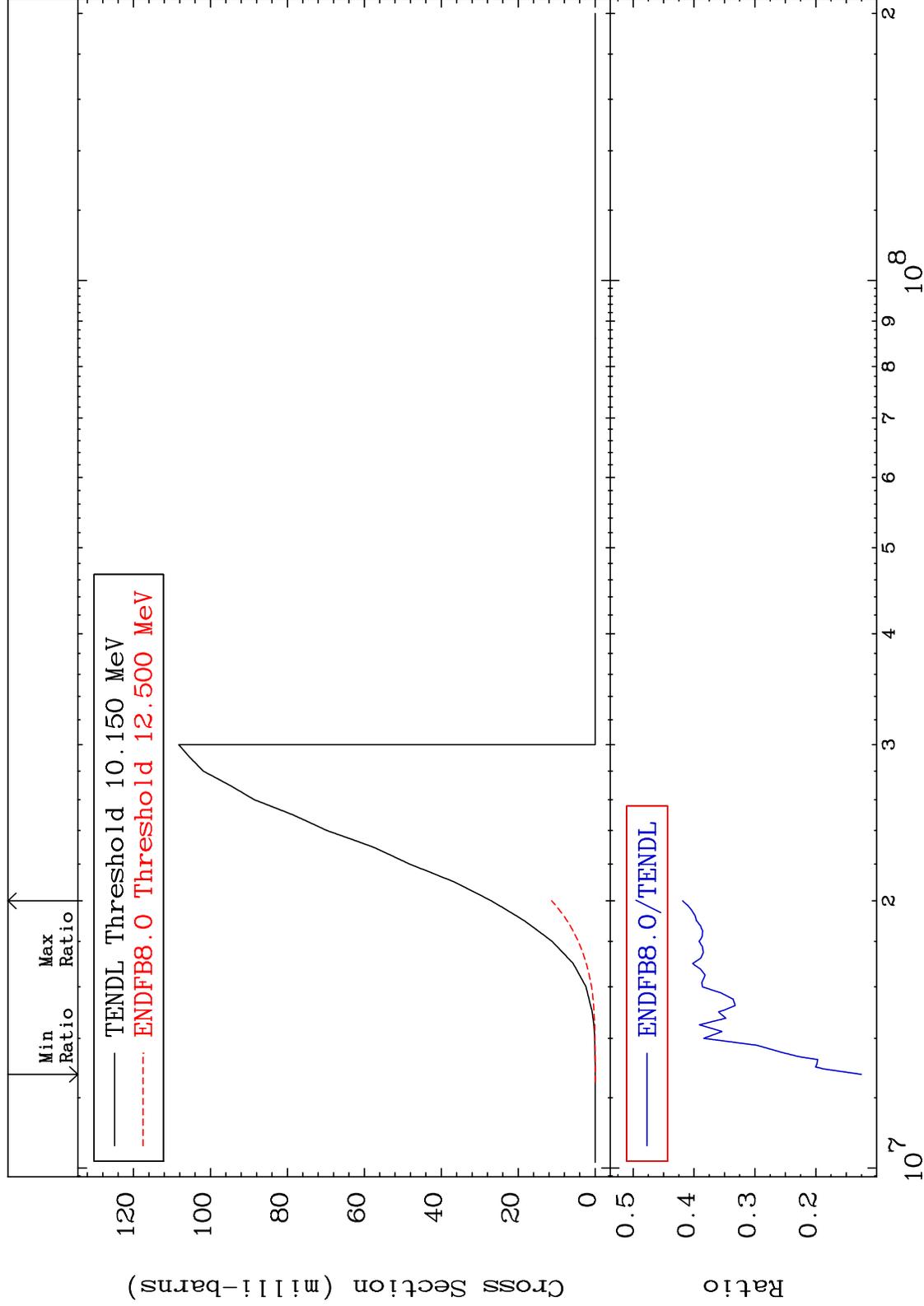
Cross Section



MAT 4443

(n, n') p  
Cross Section

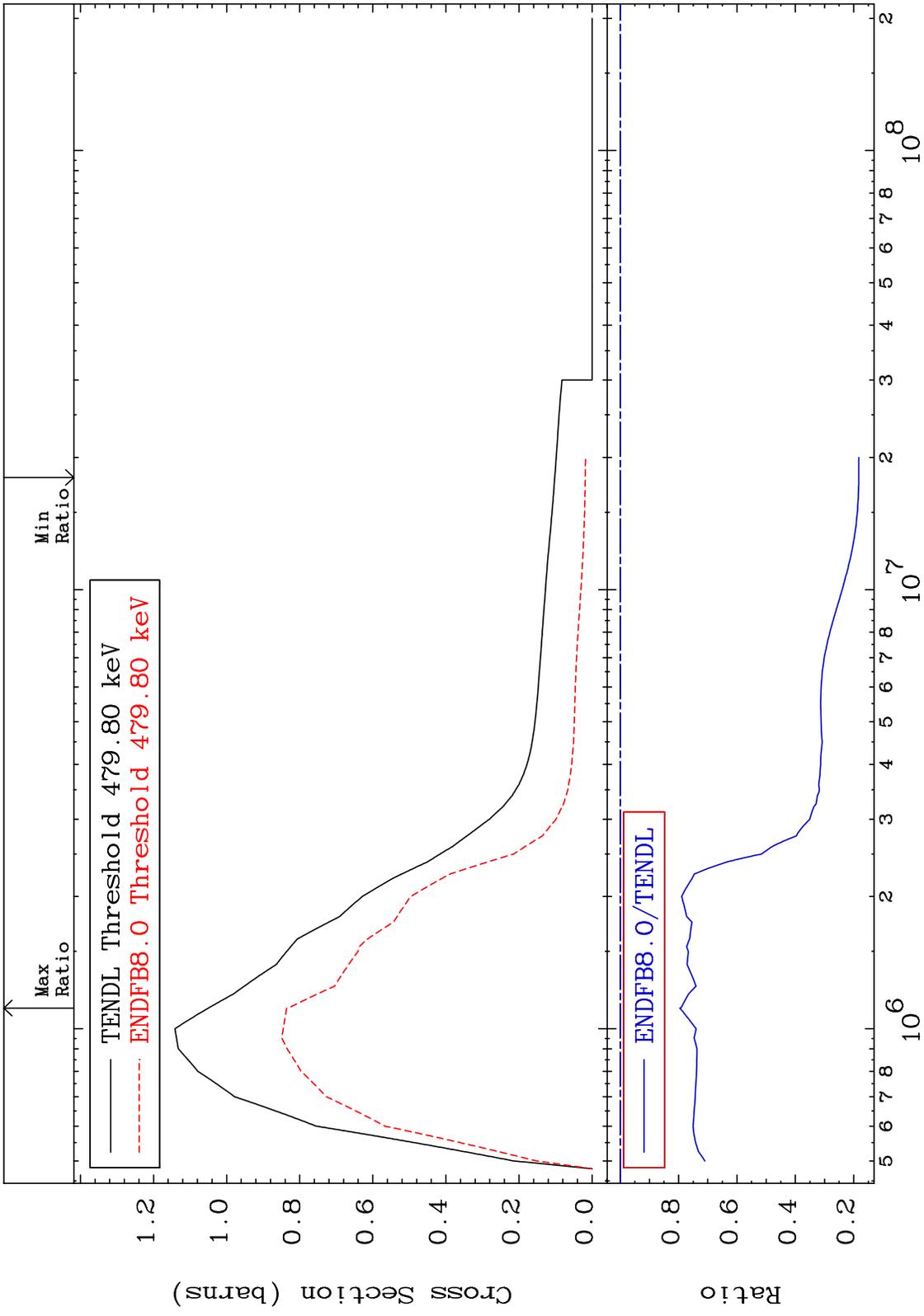
44-Ru-102  
-87.48 To -58.13%



Incident Energy (eV)

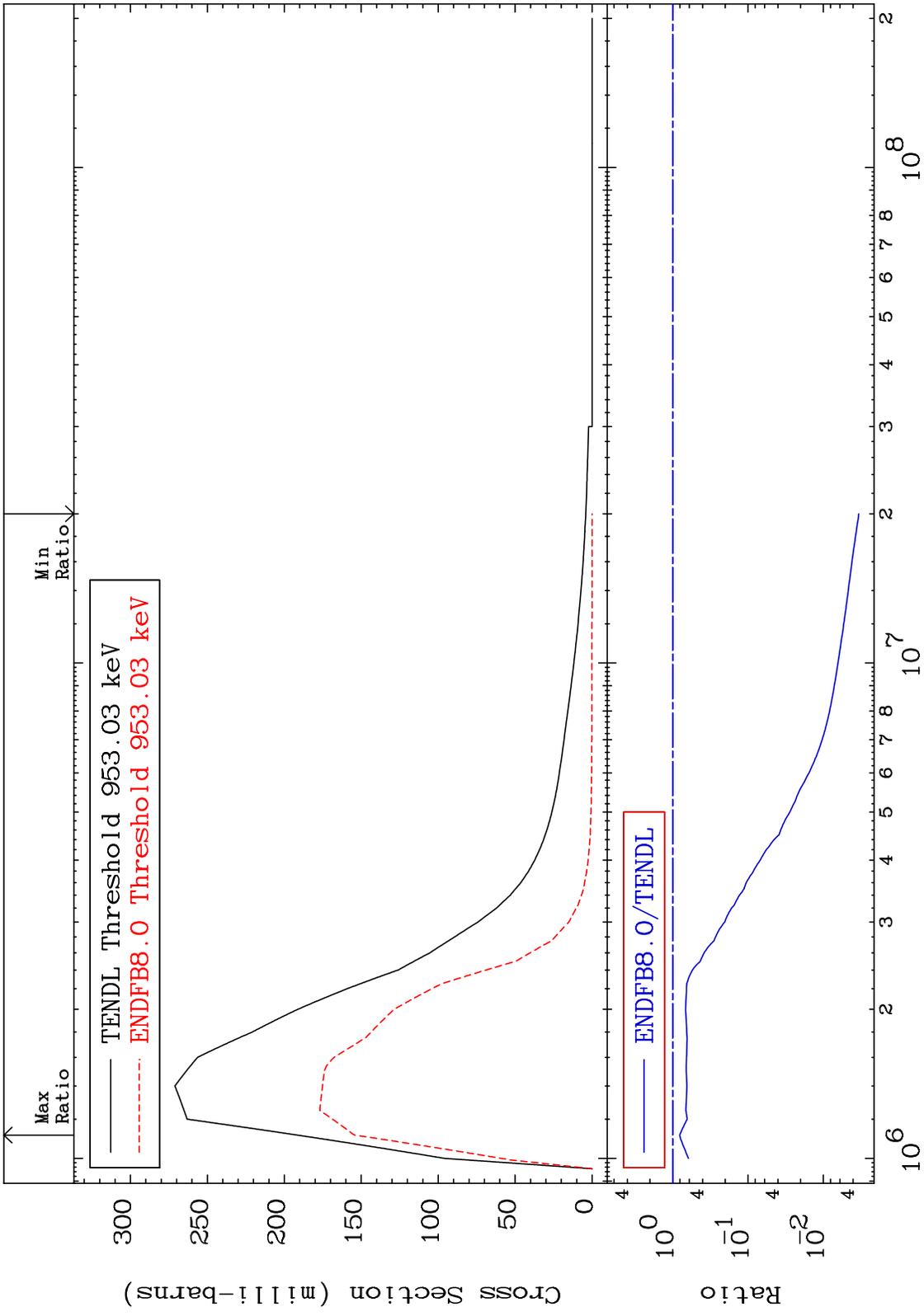
44-Ru-102

MAT 4443 MT= 51 (n,n') Level Cross Section 44-Ru-102  
 -81.75 To -20.40%



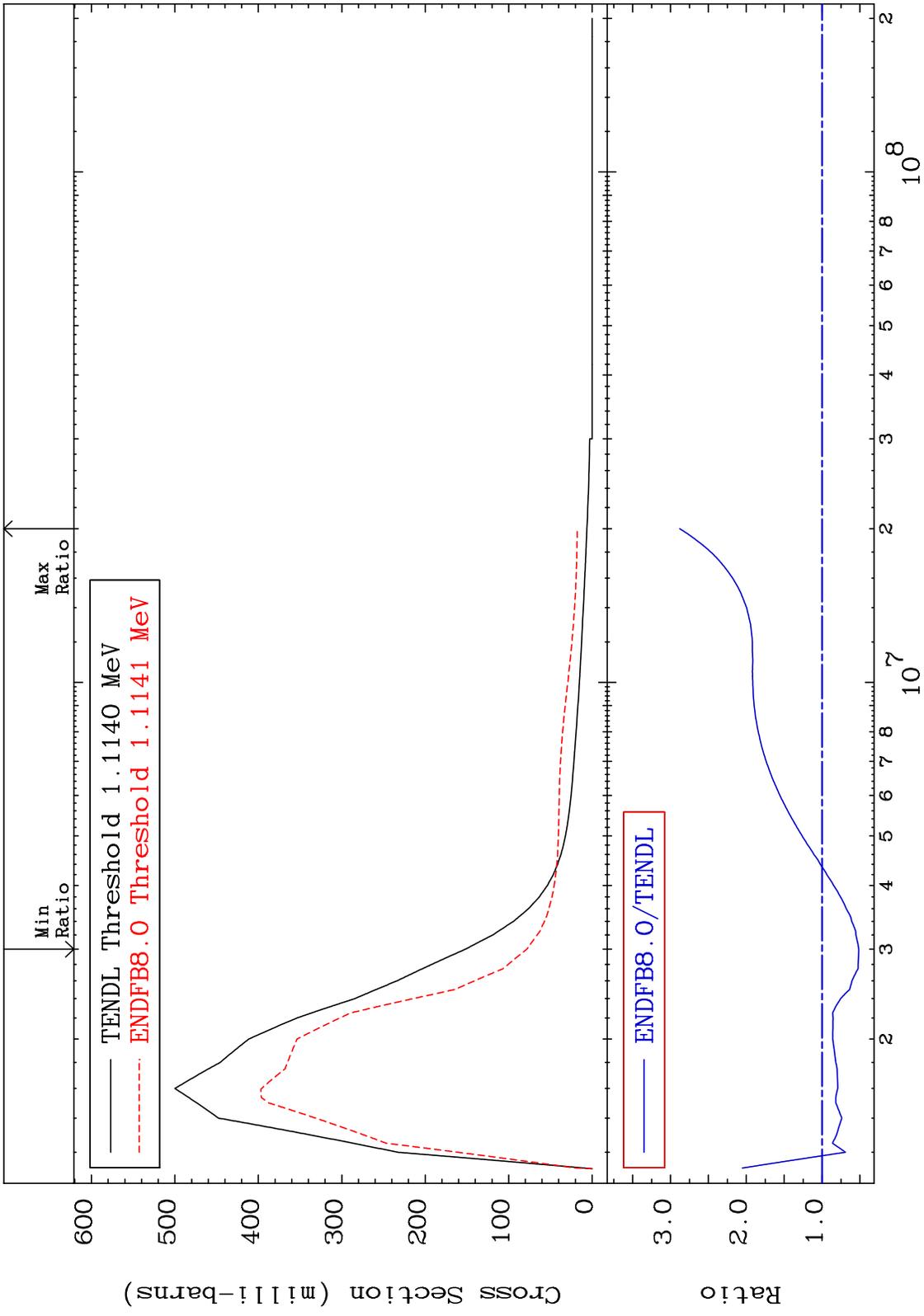
8 Incident Energy (eV) 44-Ru-102

MAT 4443      MT= 52 (n,n') Level      44-Ru-102  
Cross Section      -99.66 To -19.53%

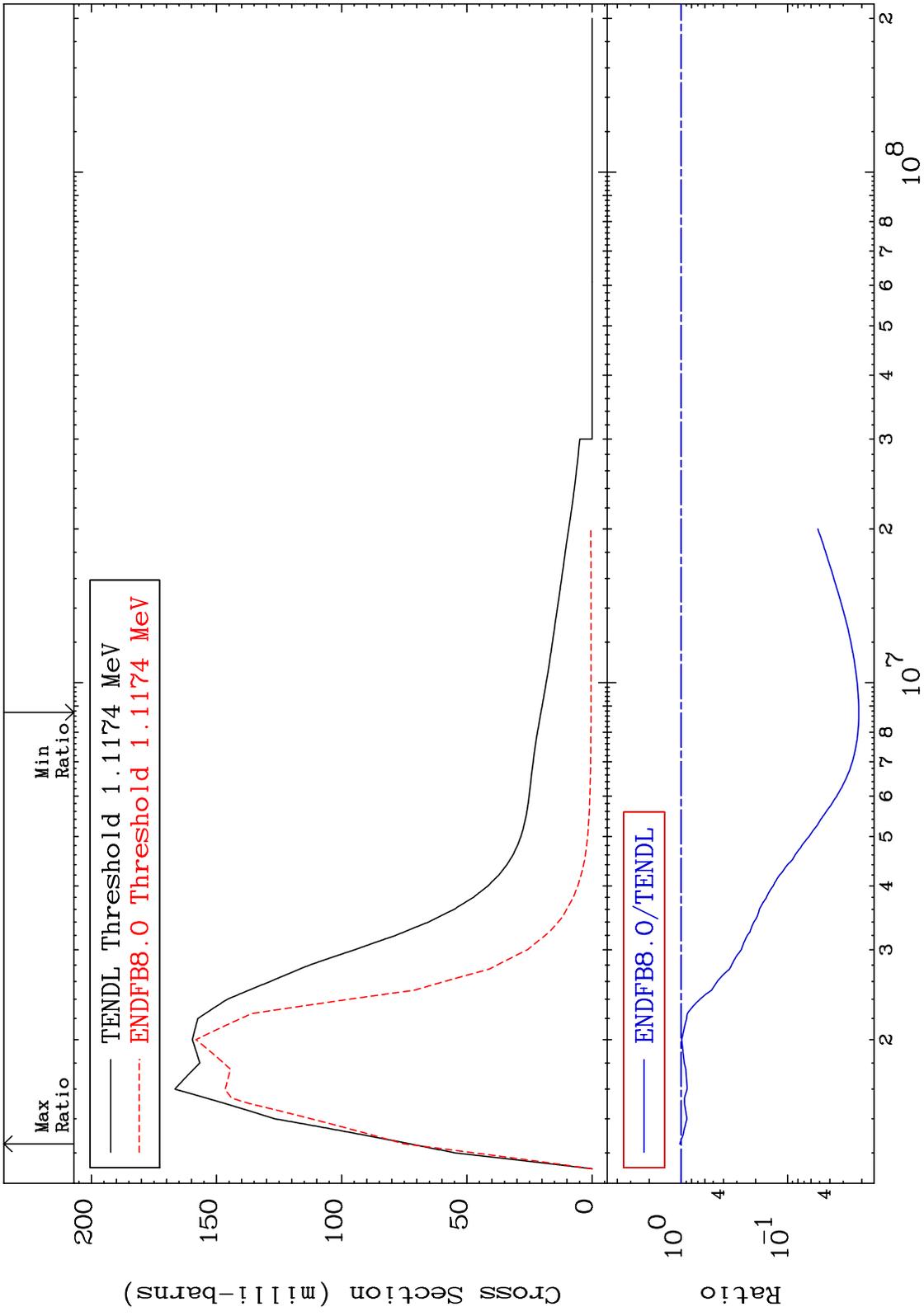


Incident Energy (eV)      44-Ru-102

MAT 4443 MT= 53 (n,n') Level Cross Section 44-Ru-102 -48.51 To 187.9 %



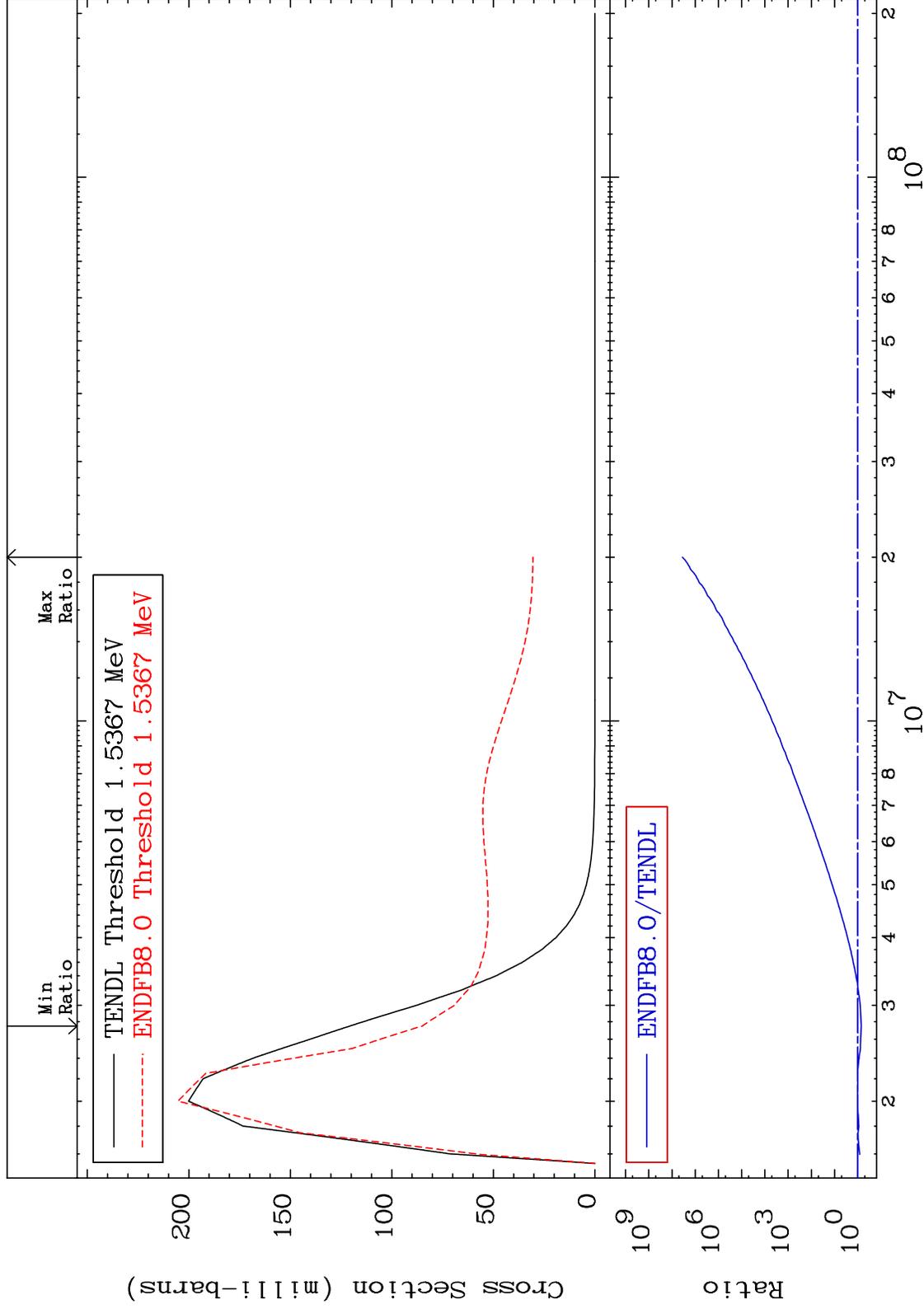
MAT 4443 MT= 54 (n,n') Level Cross Section 44-Ru-102 -97.86 To 3.392 %



MAT 4443

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

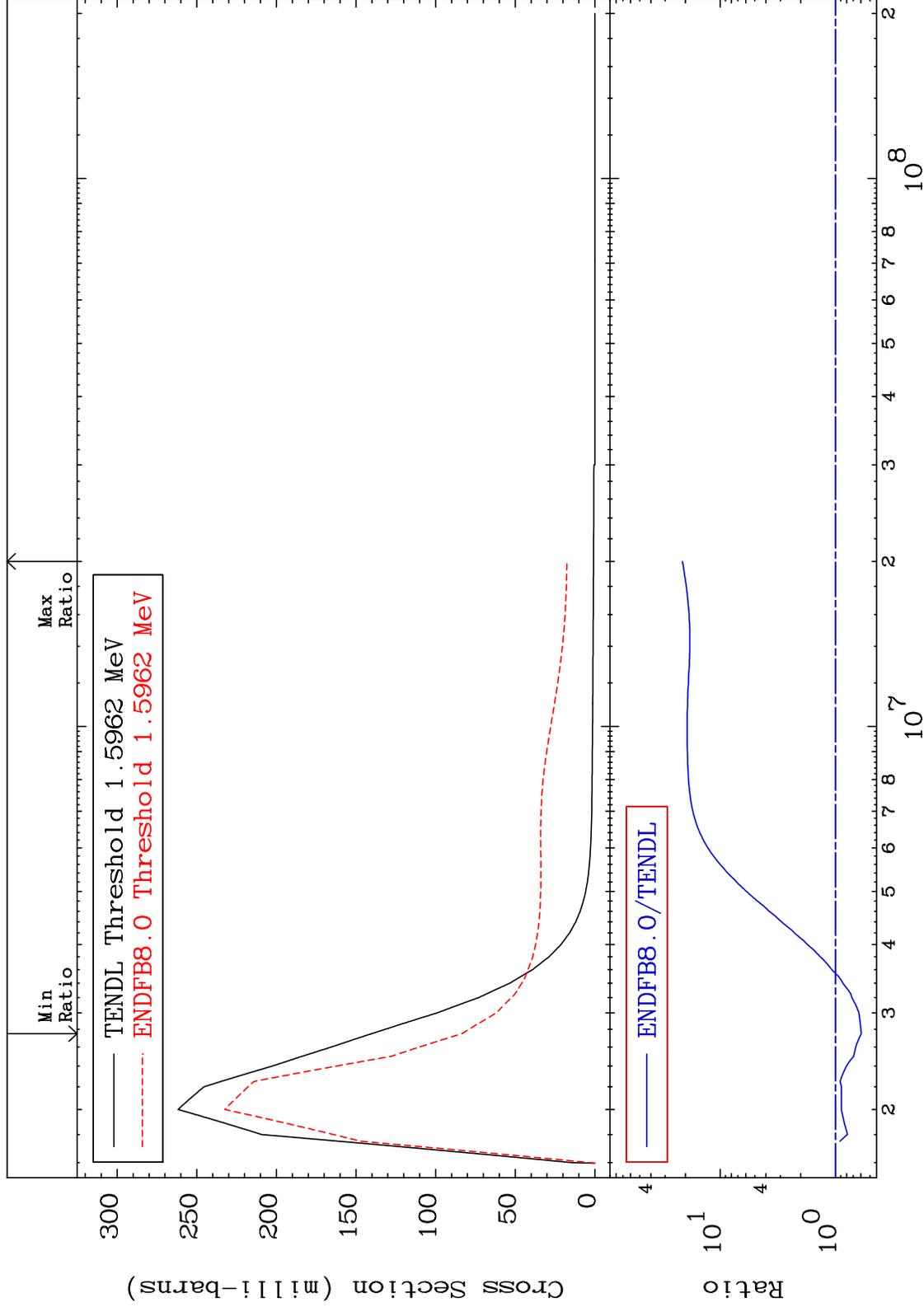
44-Ru-102  
-29.53 To 9999. %



MAT 4443

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

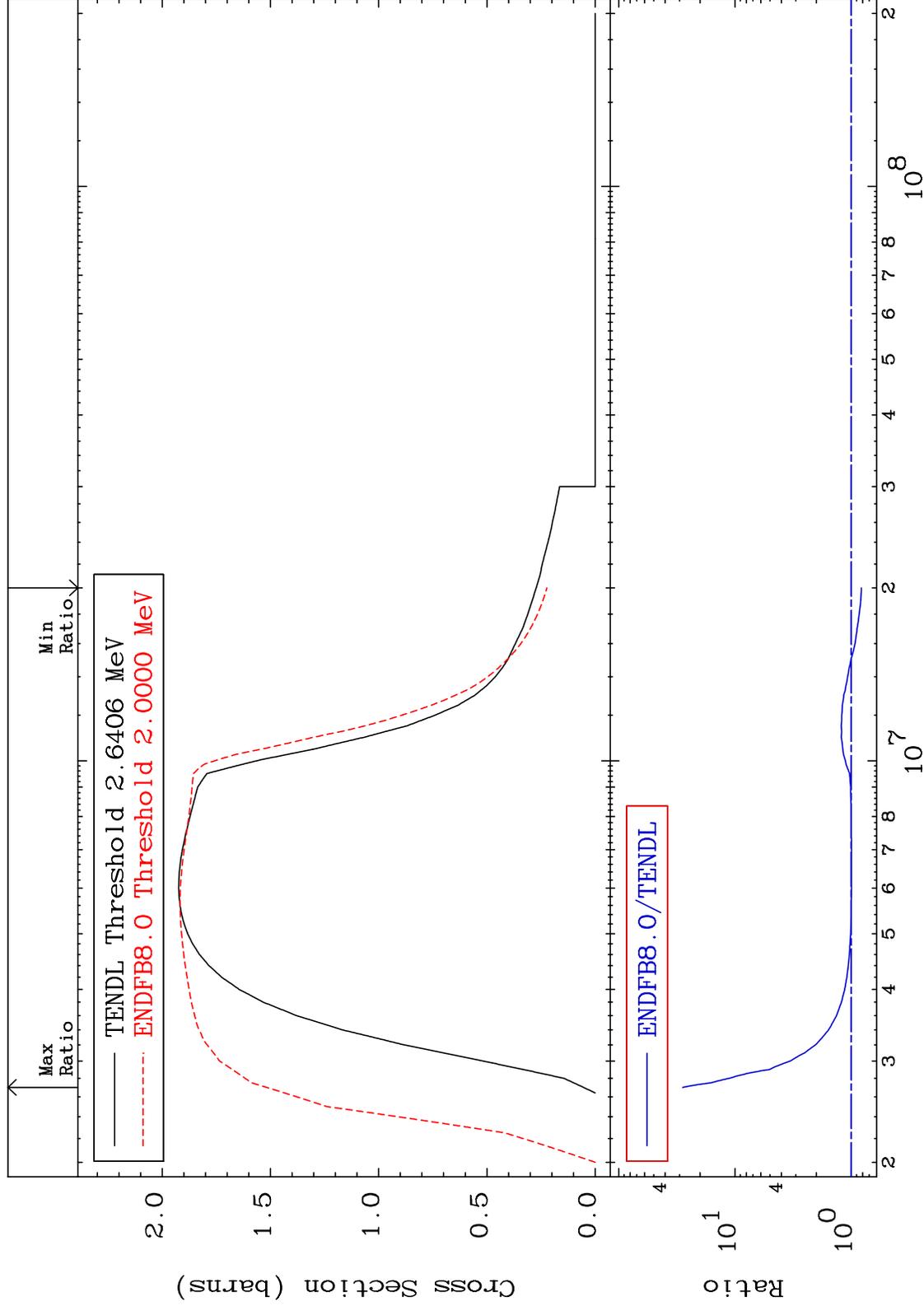
44-Ru-102  
-40.46 To 2026. %



MAT 4443

(n, n') Continuum  
Cross Section

44-Ru-102  
-18.14 To 2722. %



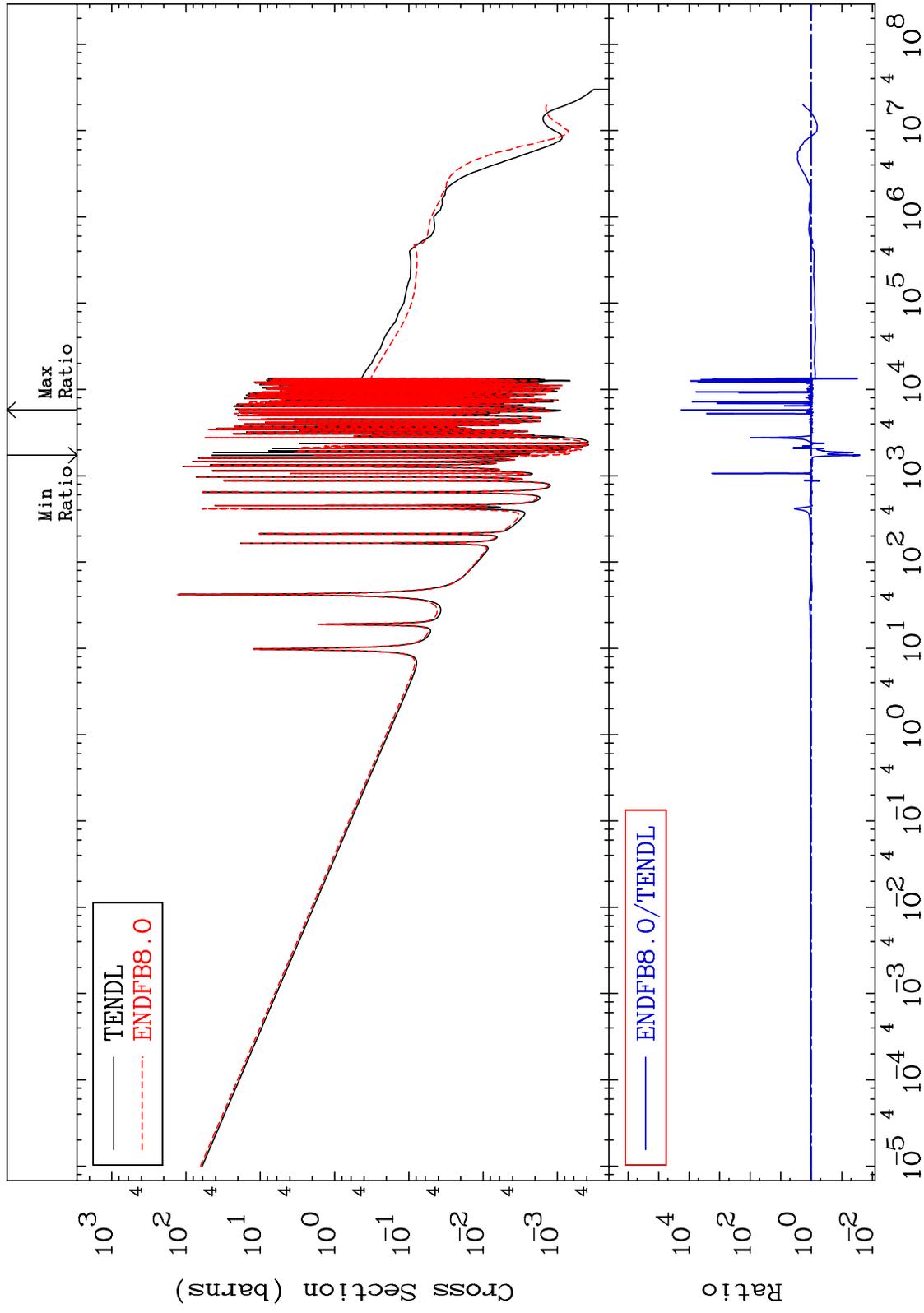
MAT 4443

(n,  $\gamma$ )

44-Ru-102

Cross Section

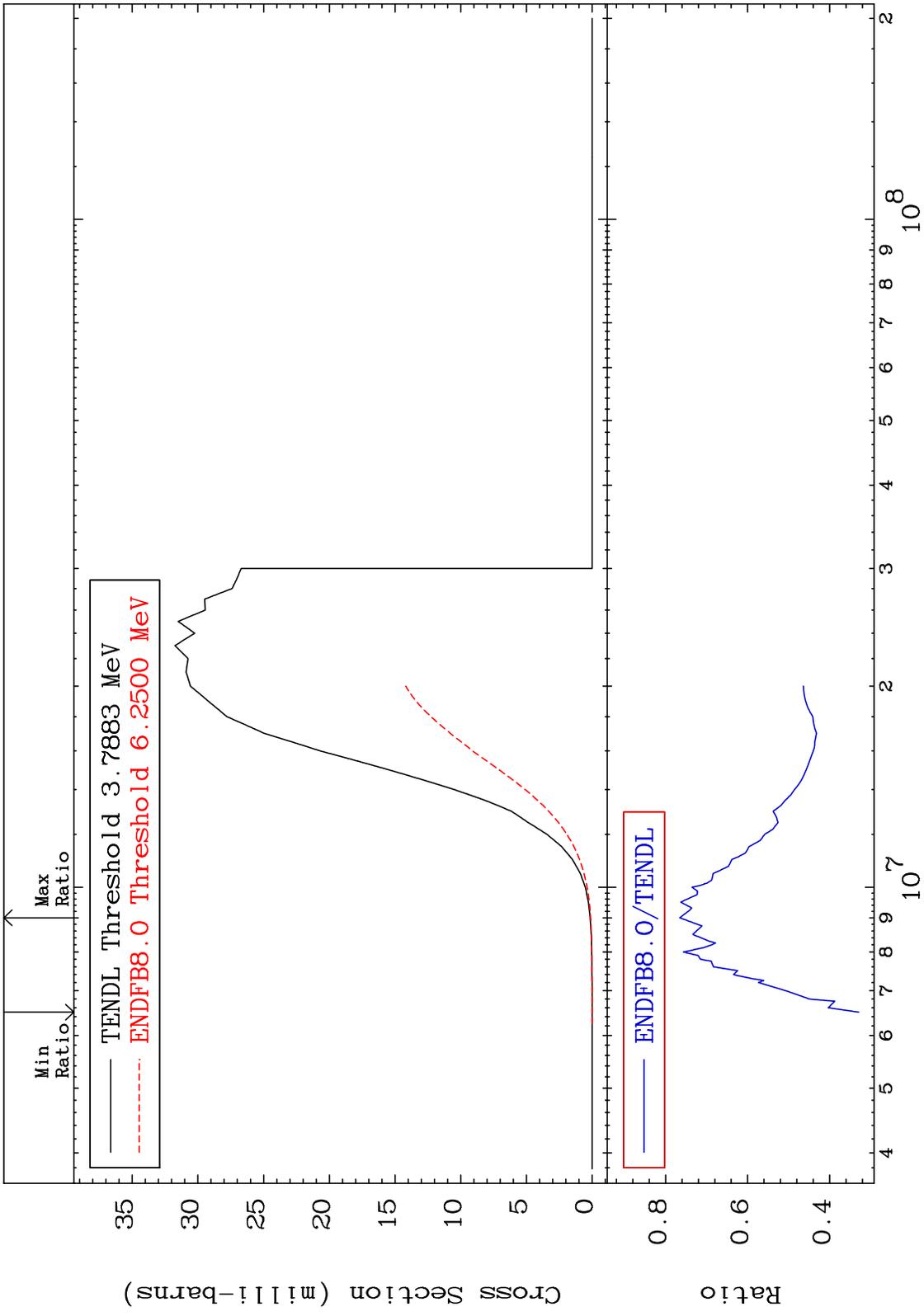
-97.41 To 9999. %



Incident Energy (eV)

44-Ru-102

MAT 4443 (n,p) Cross Section 44-Ru-102 -67.11 To -23.45%



16 44-Ru-102

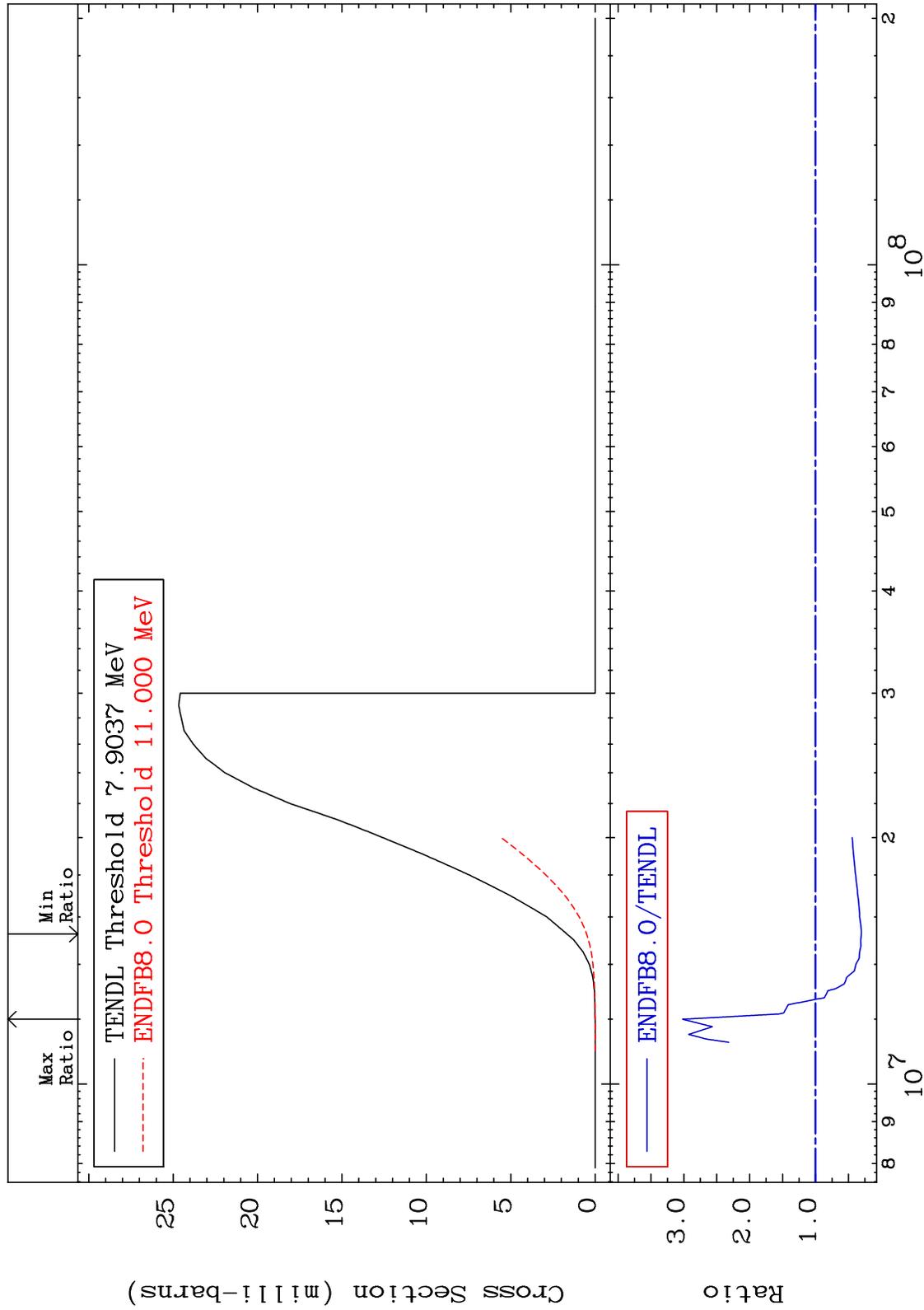
MAT 4443

(n, d)

44-Ru-102

Cross Section

-69.73 To 201.9 %



17

Incident Energy (eV)

44-Ru-102

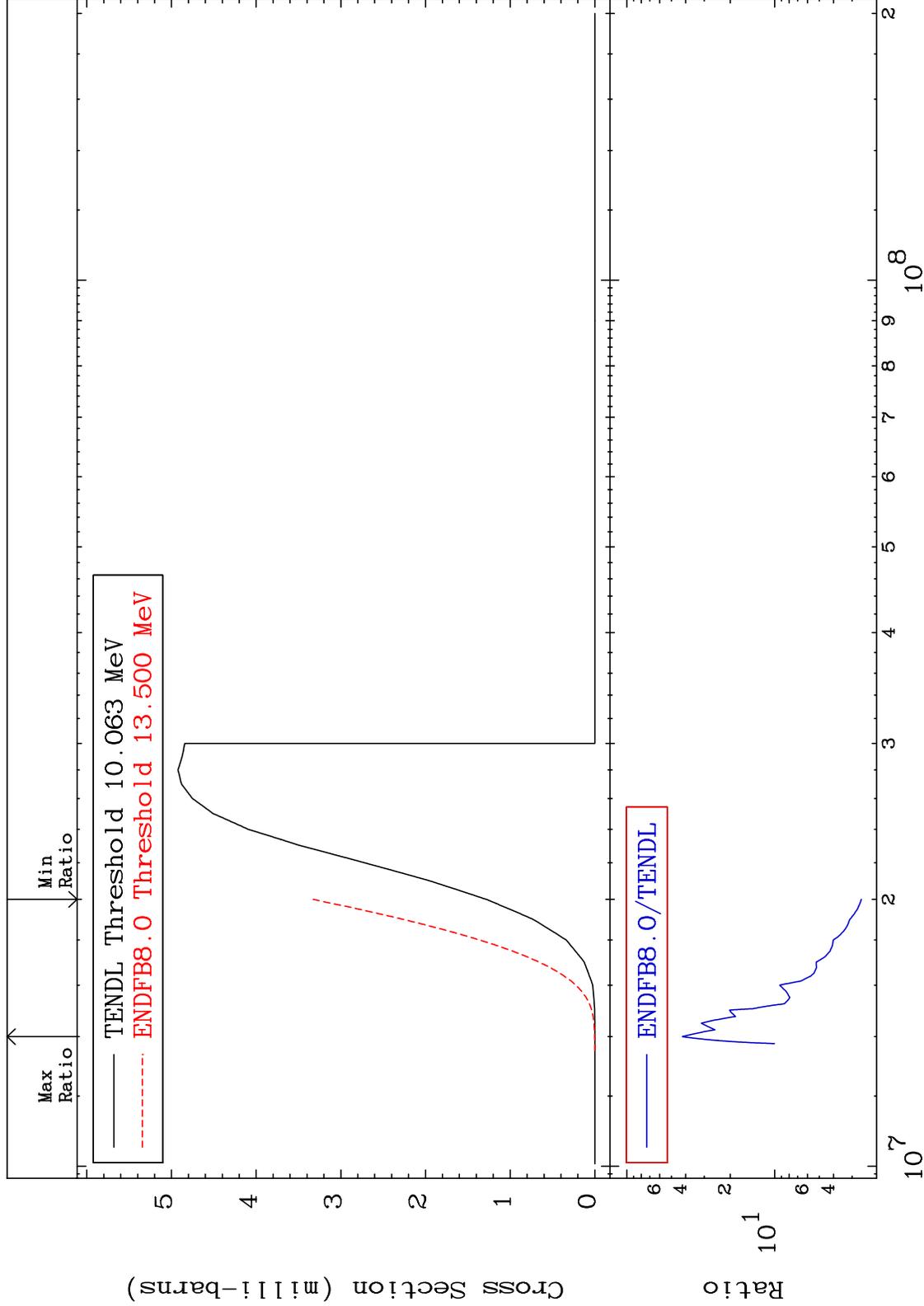
MAT 4443

(n, t)

44-Ru-102

Cross Section

159.7 To 4110. %



18

Incident Energy (eV)

44-Ru-102

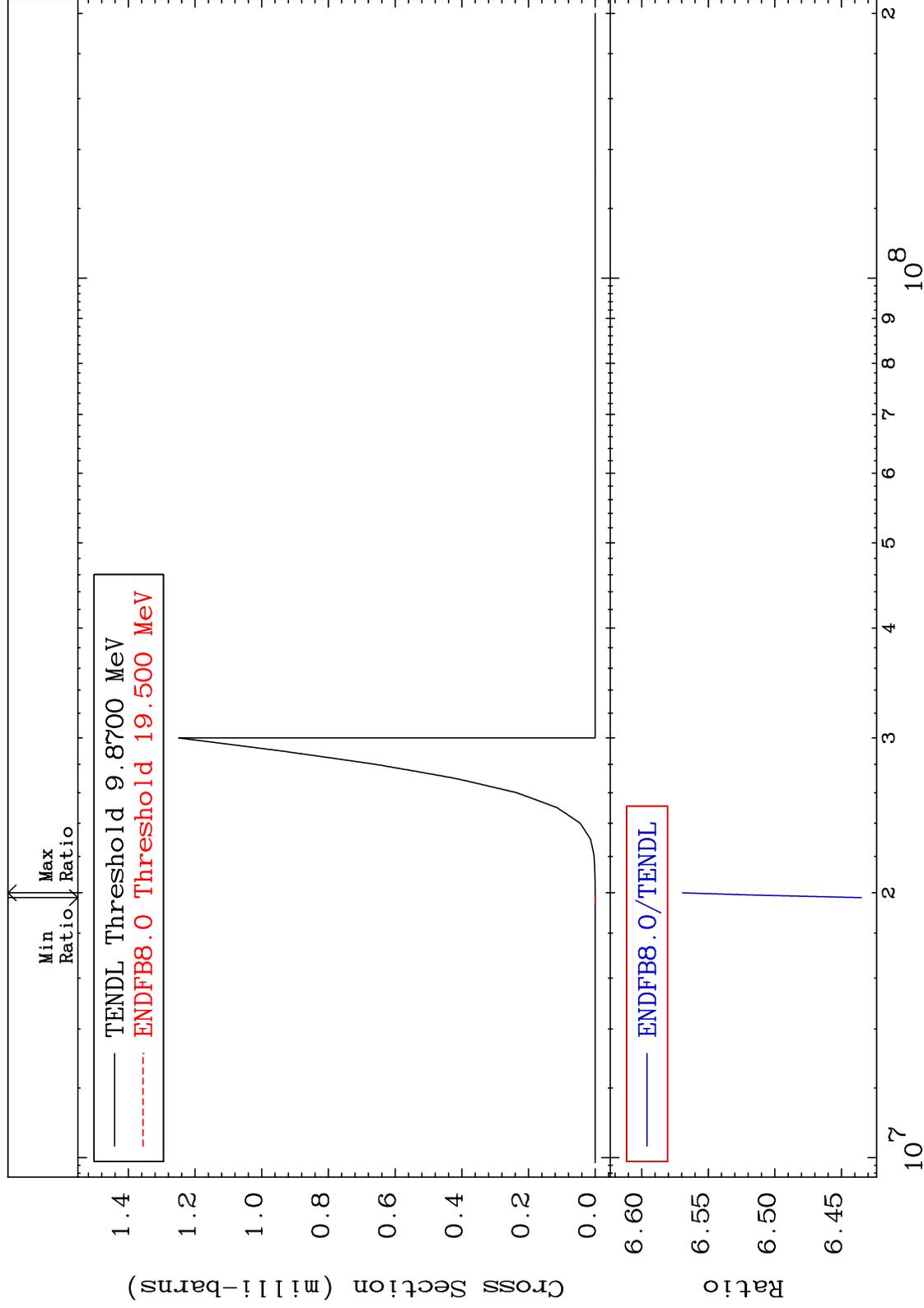
MAT 4443

(n, He-3)

44-Ru-102

Cross Section

543.5 To 556.9 %



Incident Energy (eV)

44-Ru-102

19

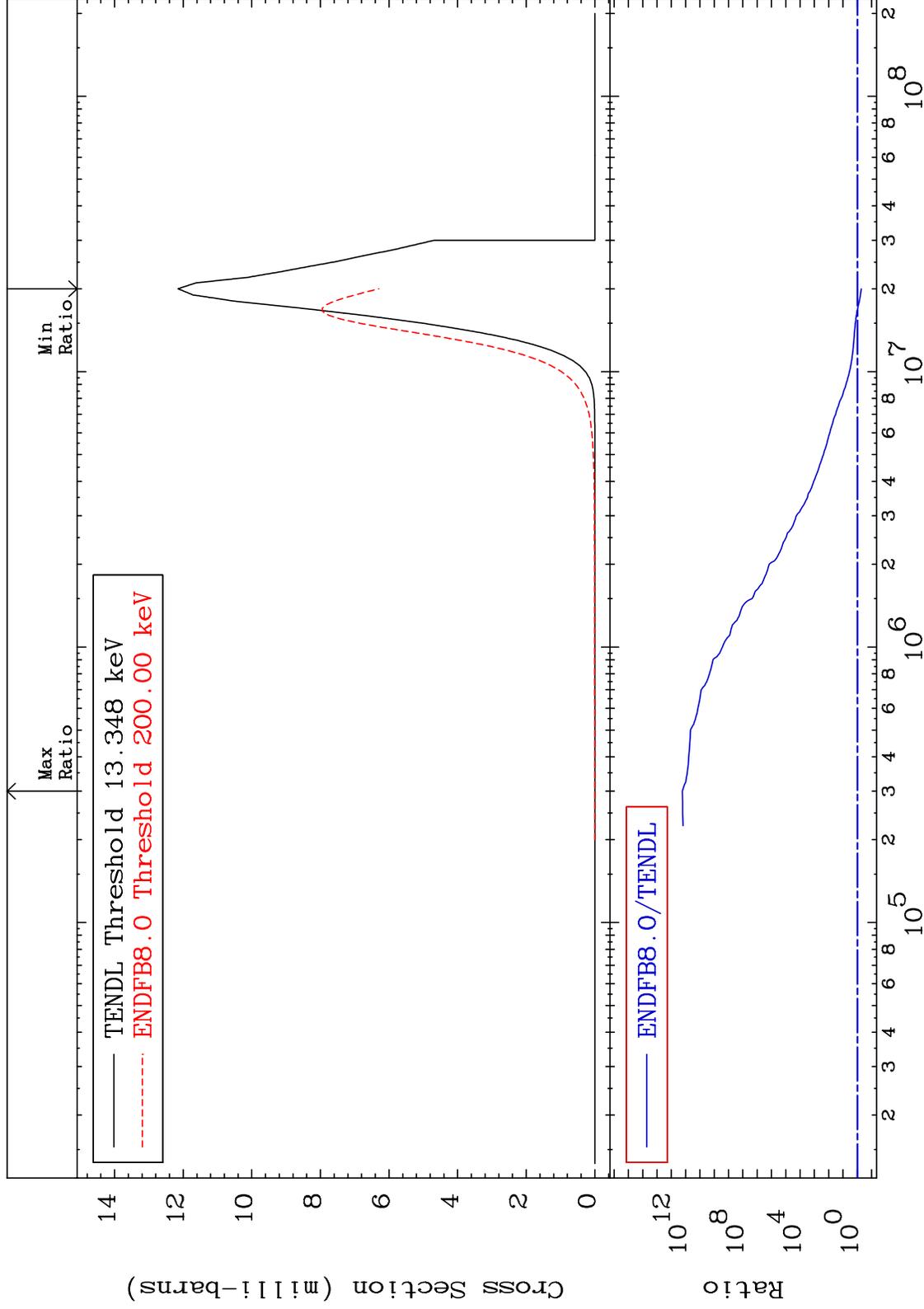
MAT 4443

(n,  $\alpha$ )

44-Ru-102

Cross Section

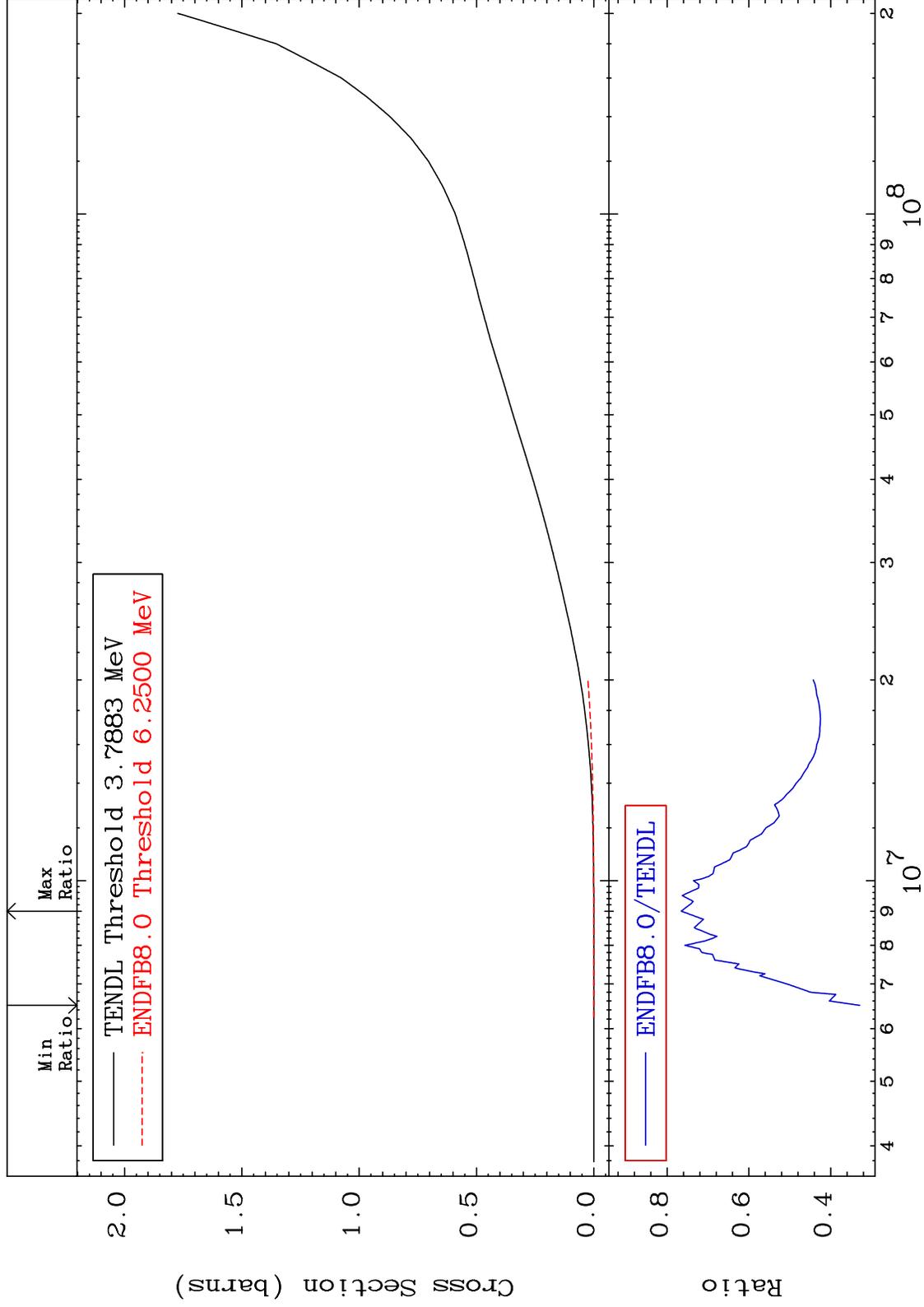
-48.15 To 9999. %



MAT 4443

Hydrogen Production  
Cross Section

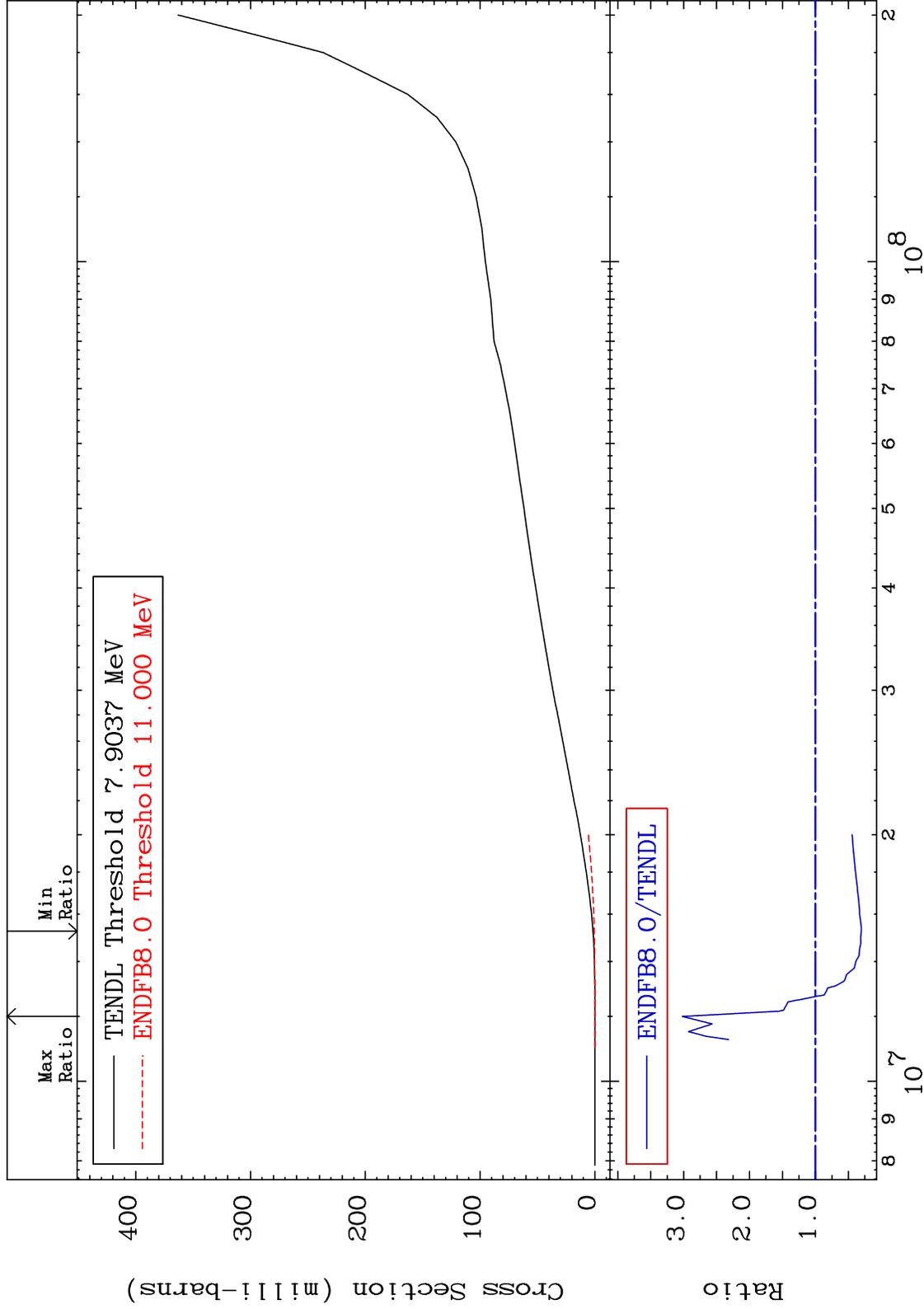
44-Ru-102  
-67.11 To -23.45%



MAT 4443

Deuterium Production  
Cross Section

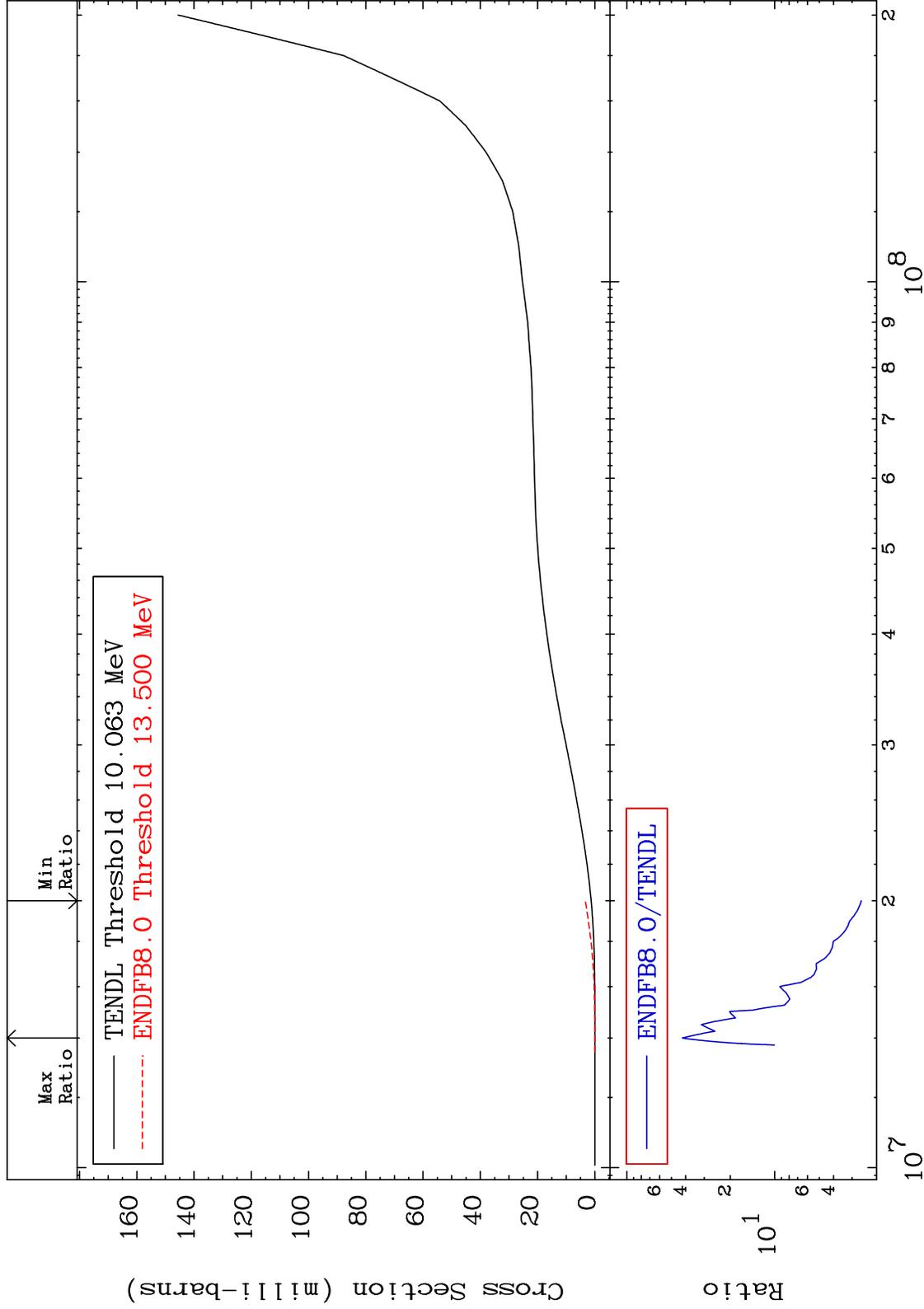
44-Ru-102  
-69.73 To 201.9 %



MAT 4443

Tritium Production  
Cross Section

44-Ru-102  
159.7 To 4110. %



23

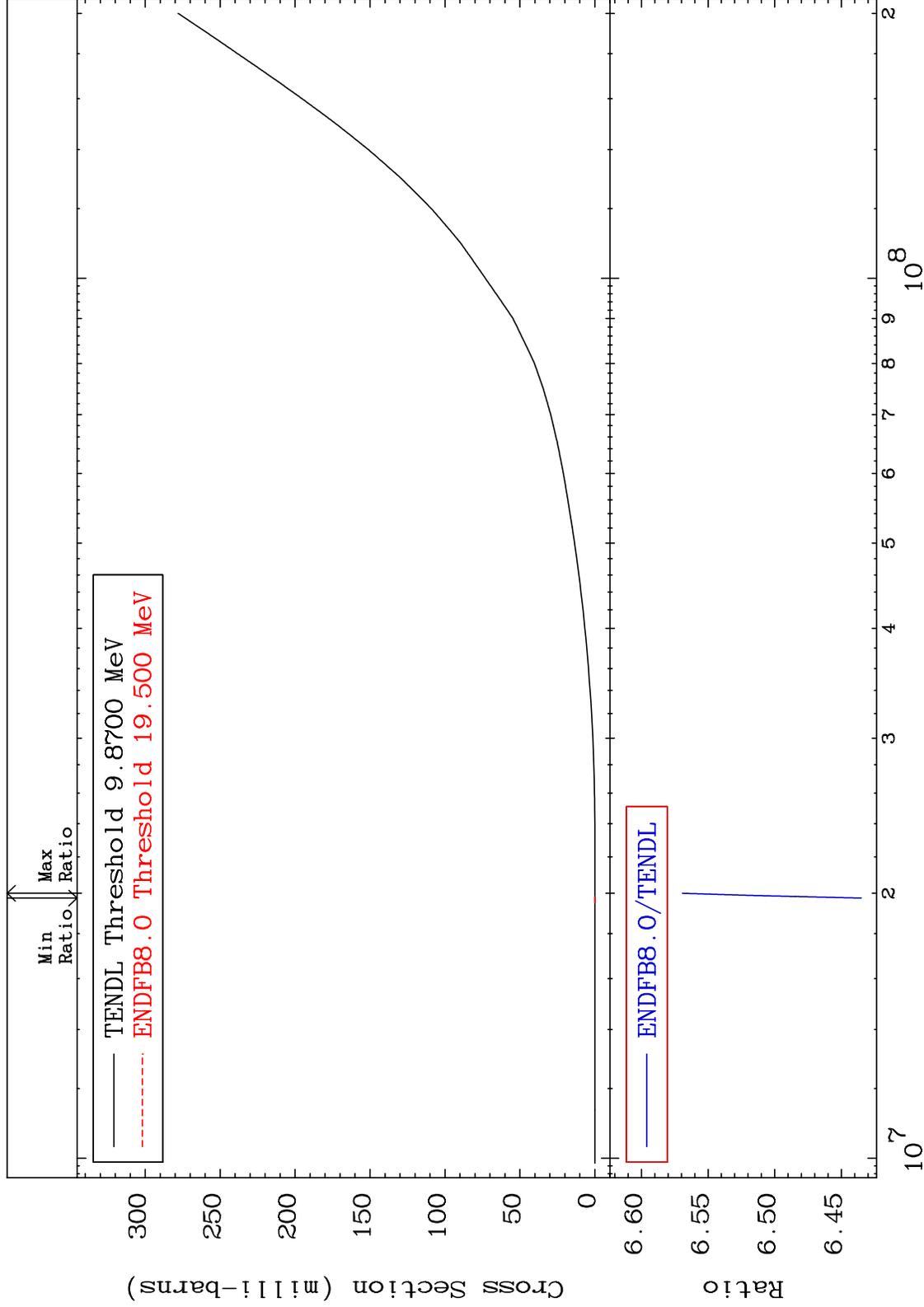
Incident Energy (eV)

44-Ru-102

MAT 4443

He-3 Production  
Cross Section

44-Ru-102  
543.5 To 556.9 %



24

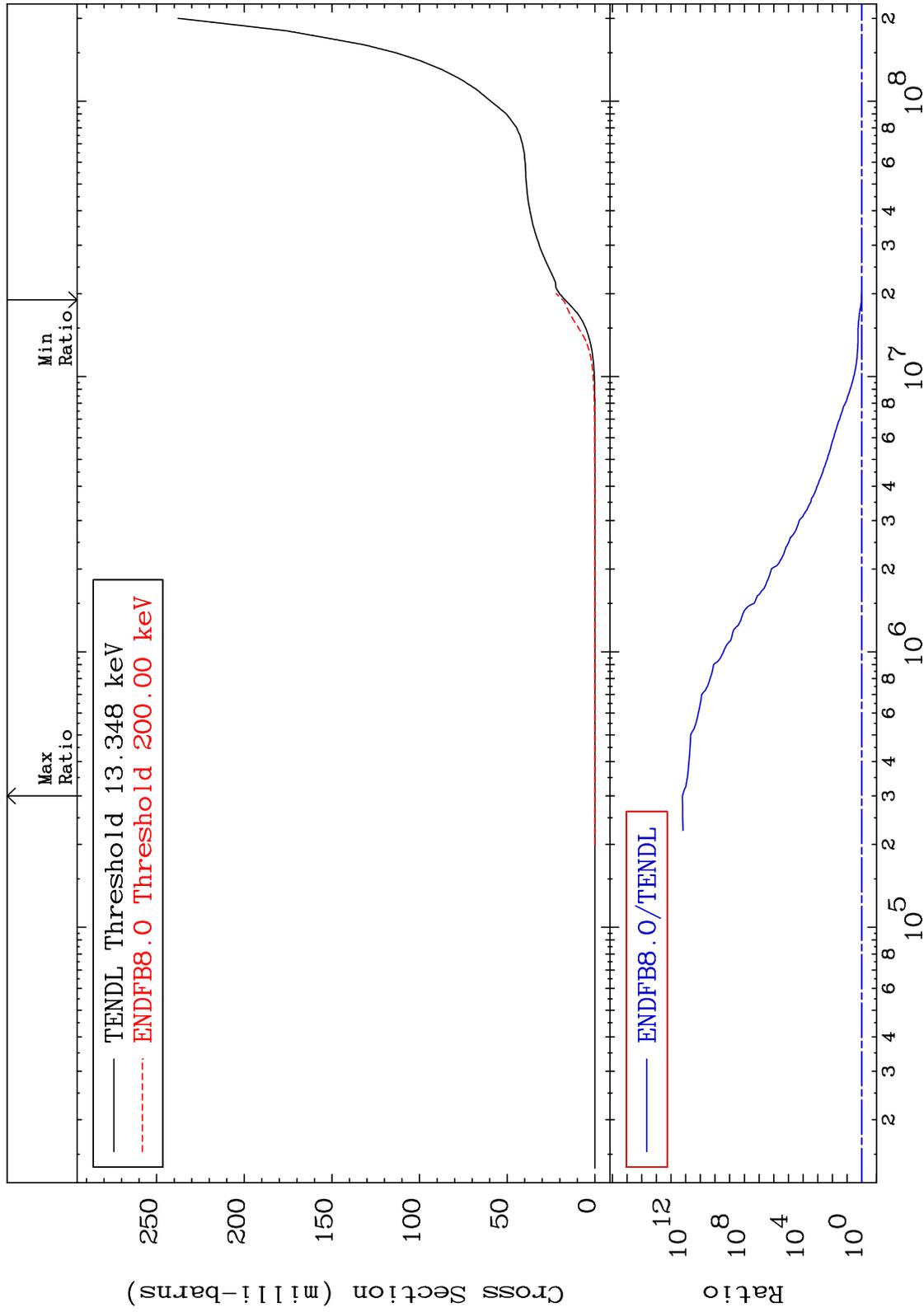
Incident Energy (eV)

44-Ru-102

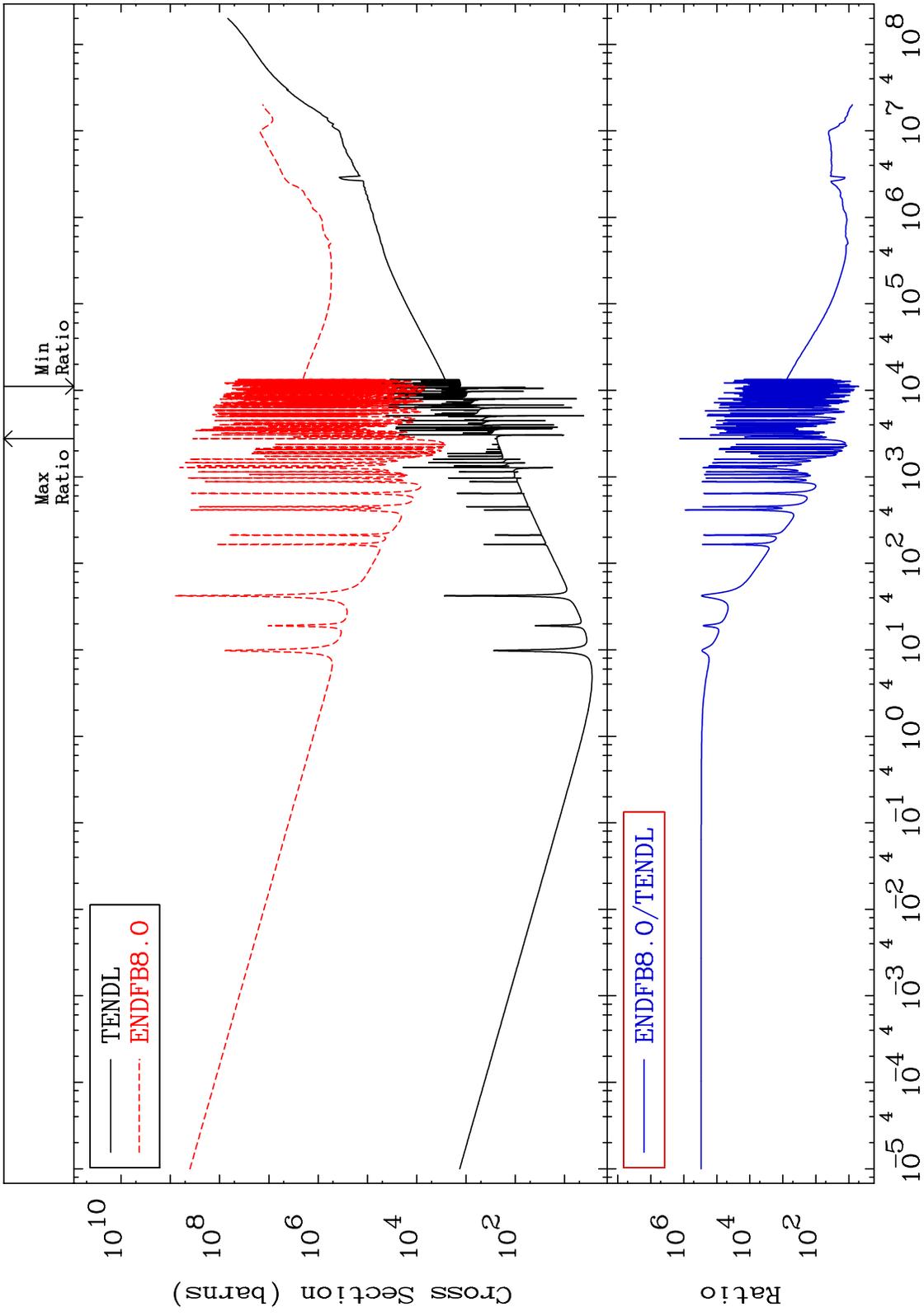
MAT 4443

He-4 Production  
Cross Section

44-Ru-102  
7.671 To 9999. %



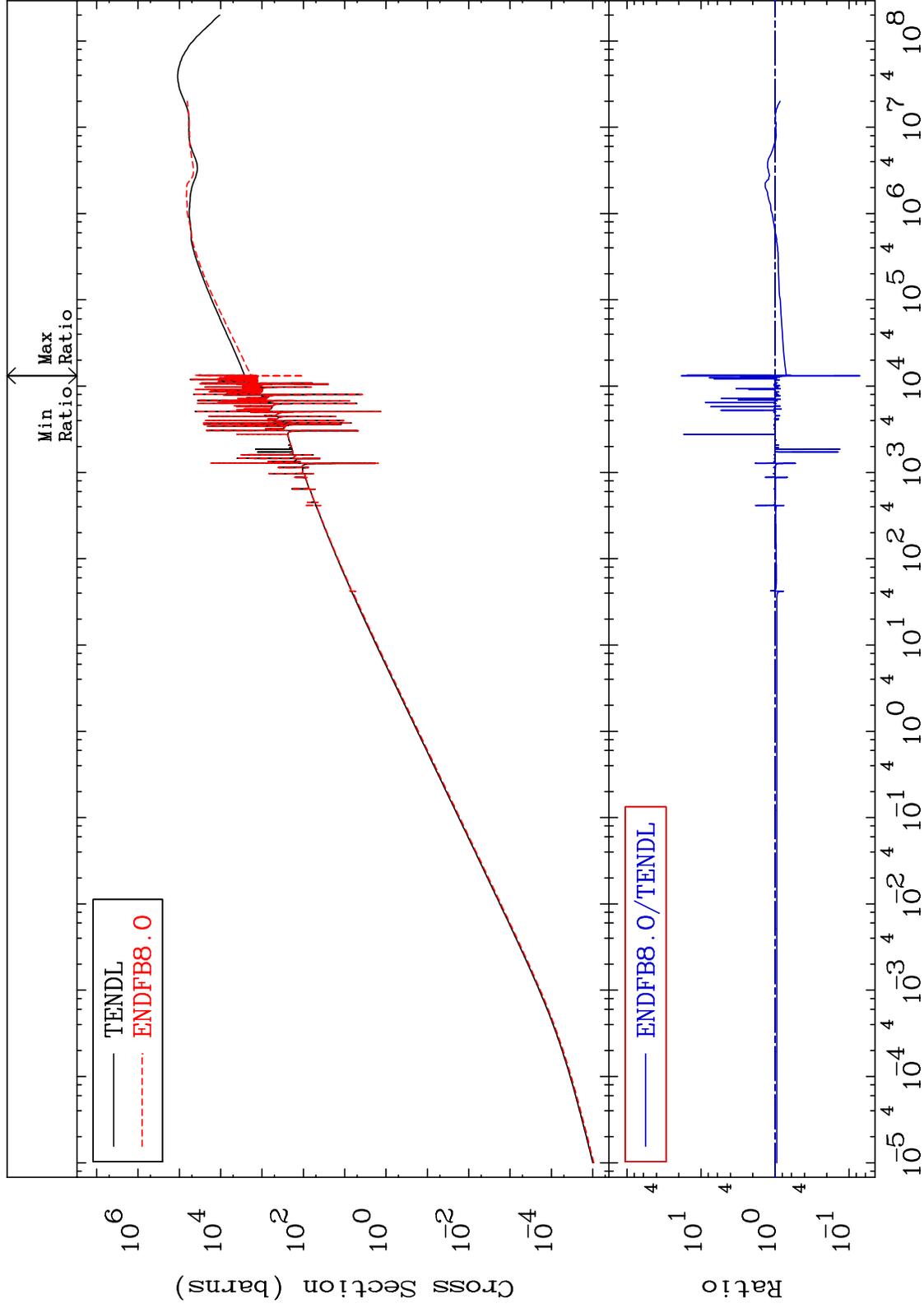
MAT 4443      Kerma total (eV-barns)  
 Cross Section      400.8    To 9999. %      44-Ru-102



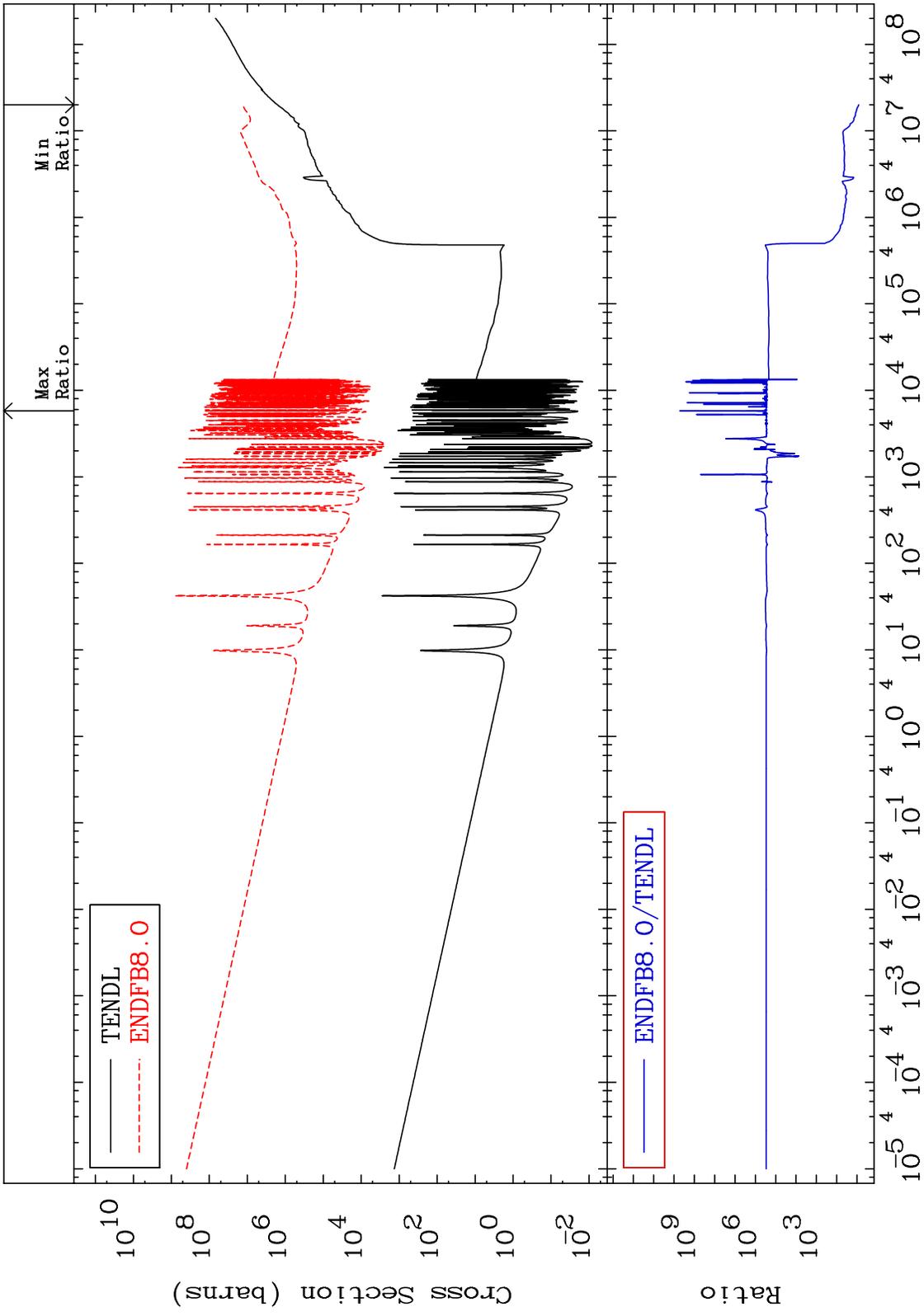
MAT 4443

Kerma elastic  
Cross Section

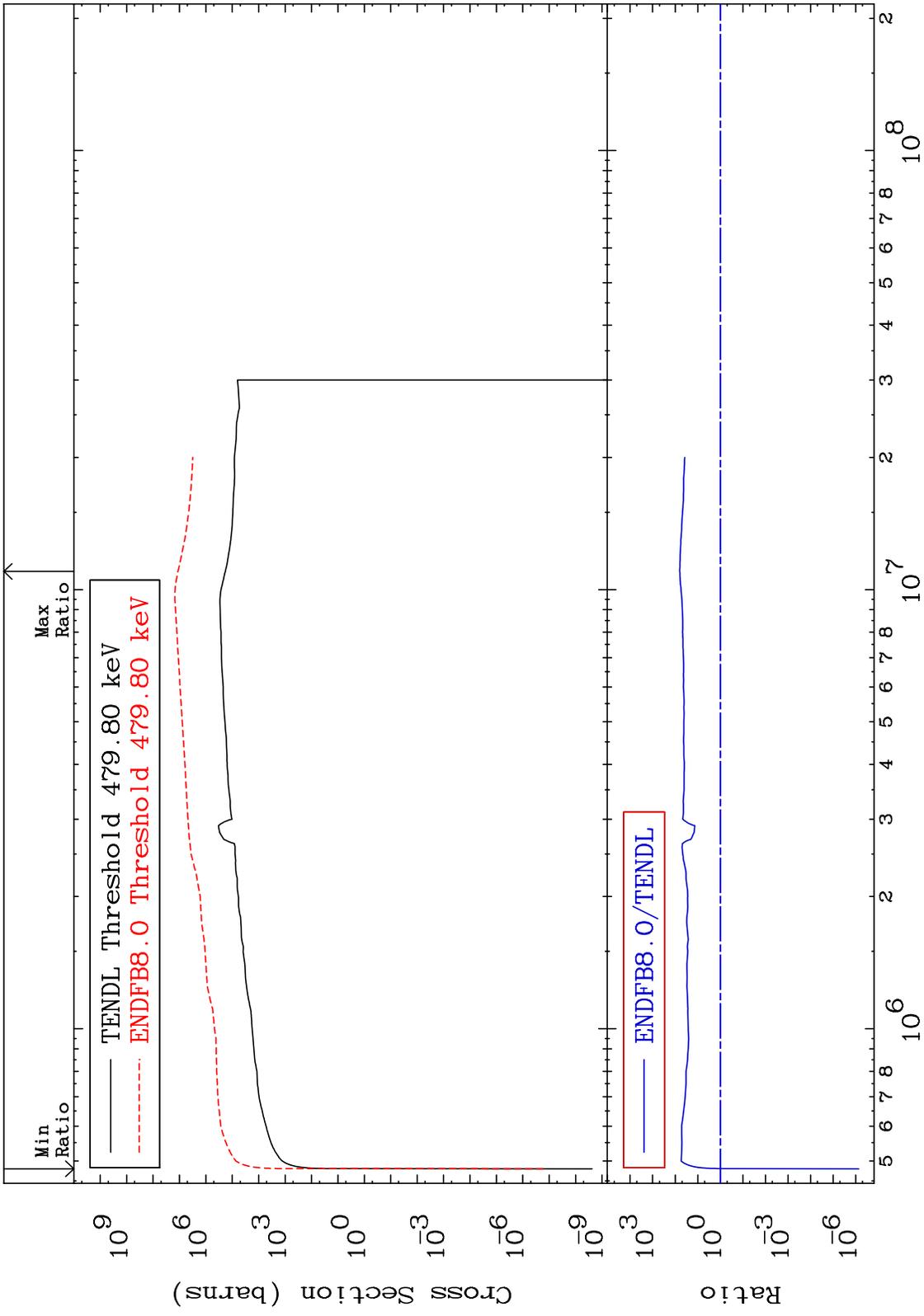
44-Ru-102  
-92.84 To 1751. %



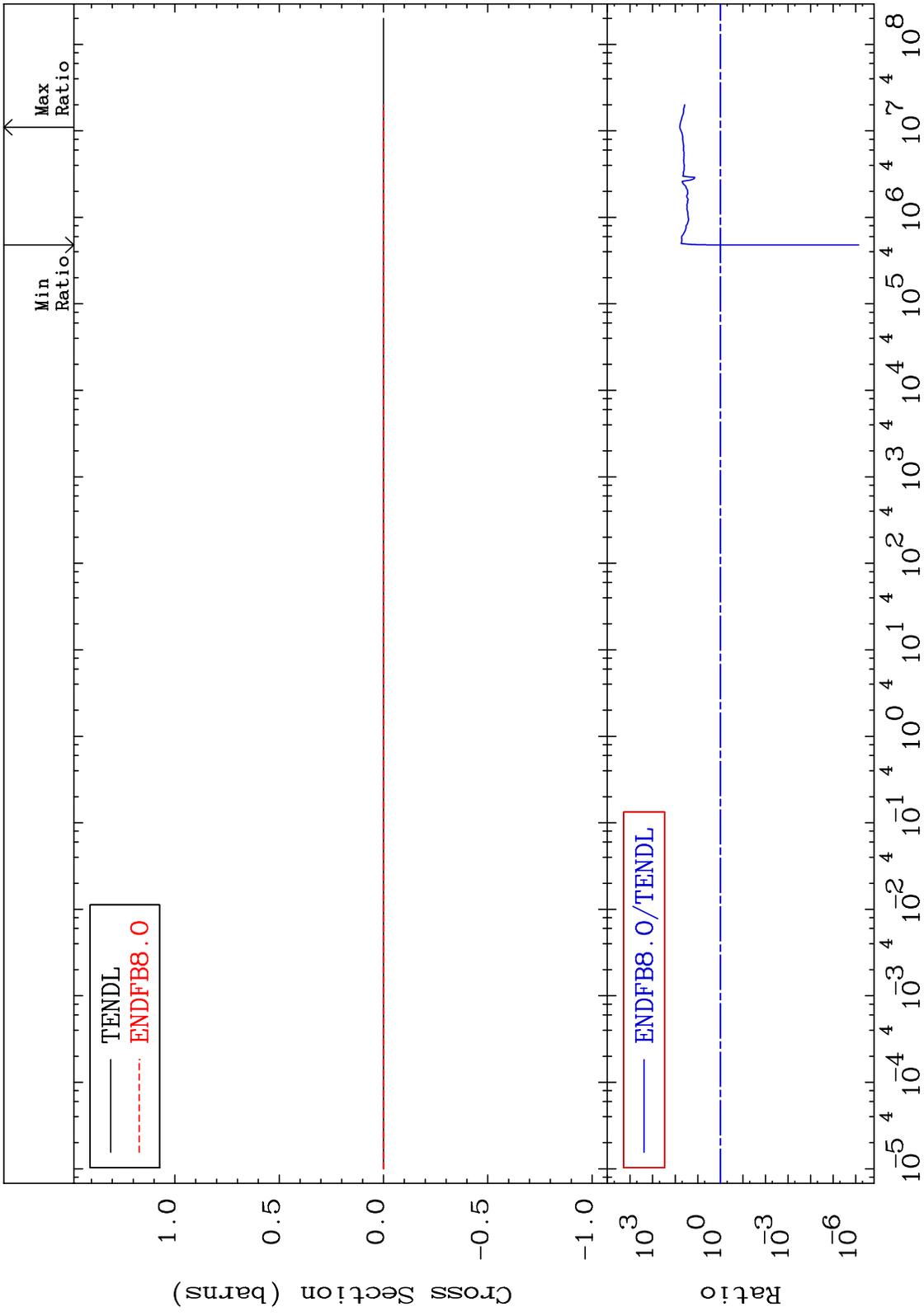
MAT 4443      Kerma non-elastic (all but mt2)      44-Ru-102  
 Cross Section      716.2 To 9999. %



MAT 4443 Kerma inelastic (mt51-91) 44-Ru-102  
 -100.0 To 6185. %  
 Cross Section



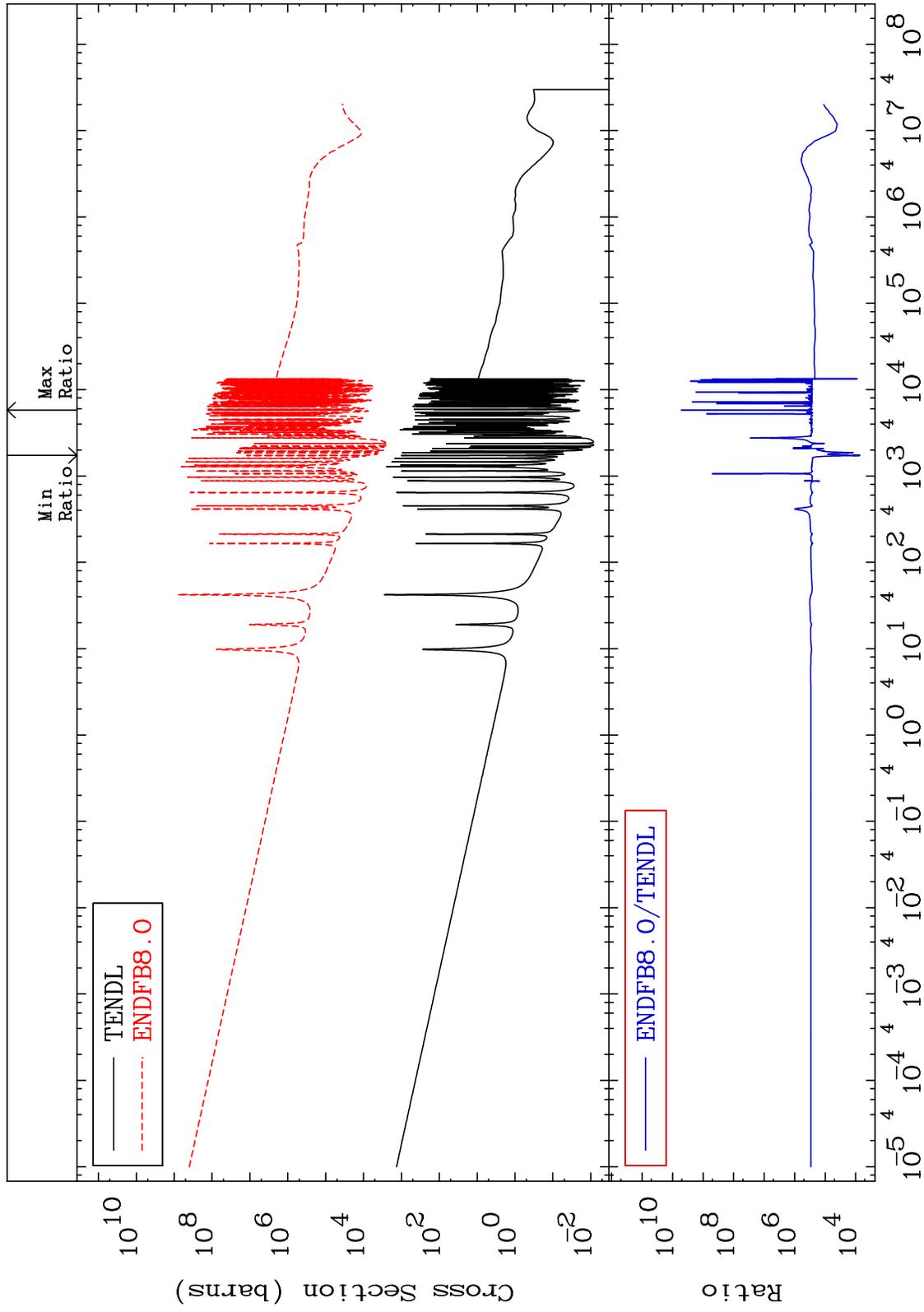
MAT 4443 Kerma fission (mt18 or mt19-20-21-38) 44-Ru-102  
 Cross Section -100.0 To 6185. %



MAT 4443

Kerma capture (mt102)  
Cross Section

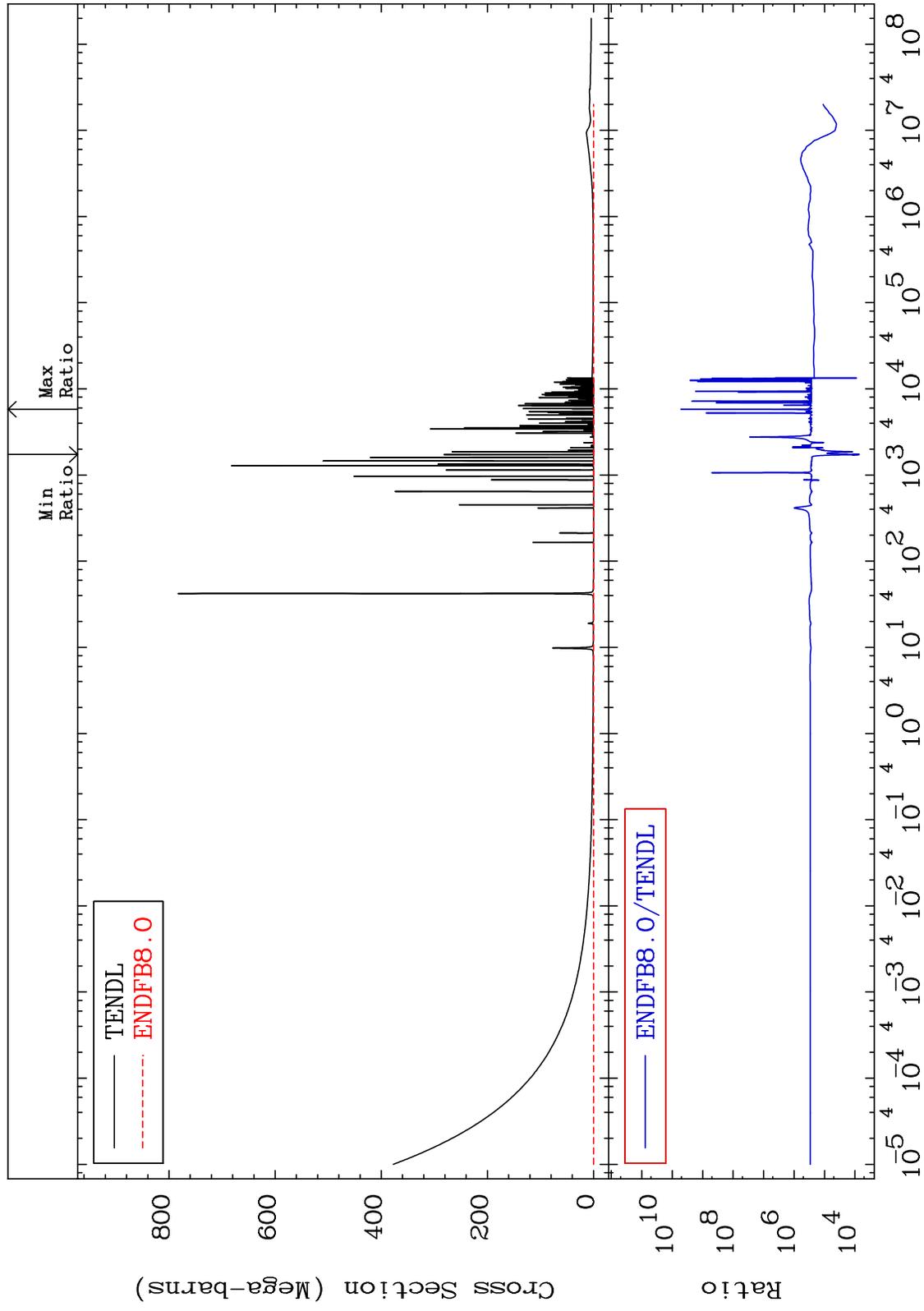
44-Ru-102  
9999. To 9999. %



MAT 4443

Total photon (eV-barns)  
Cross Section

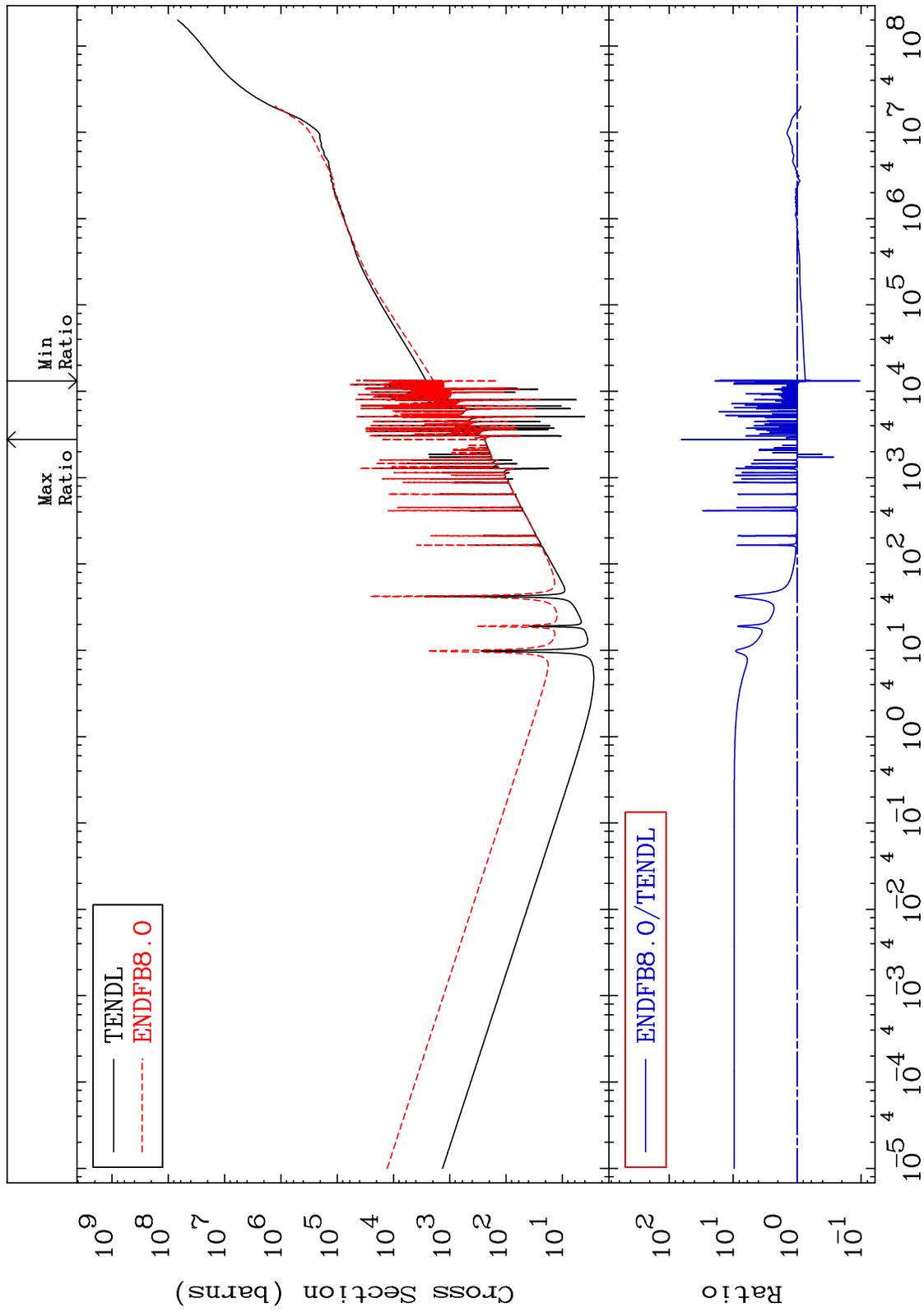
44-Ru-102  
9999. To 9999. %



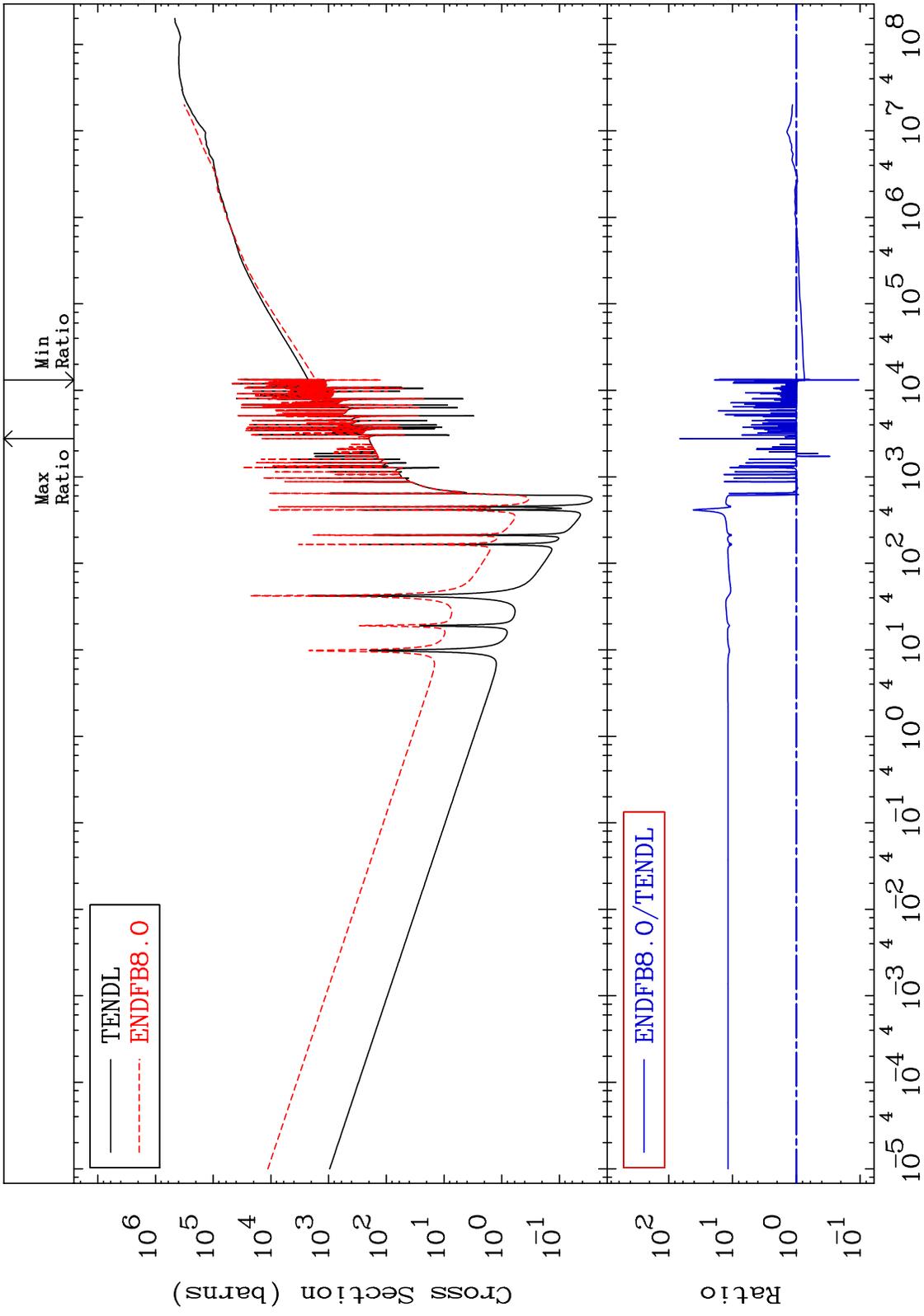
MAT 4443

Total kinematic kerma (high limit)  
Cross Section

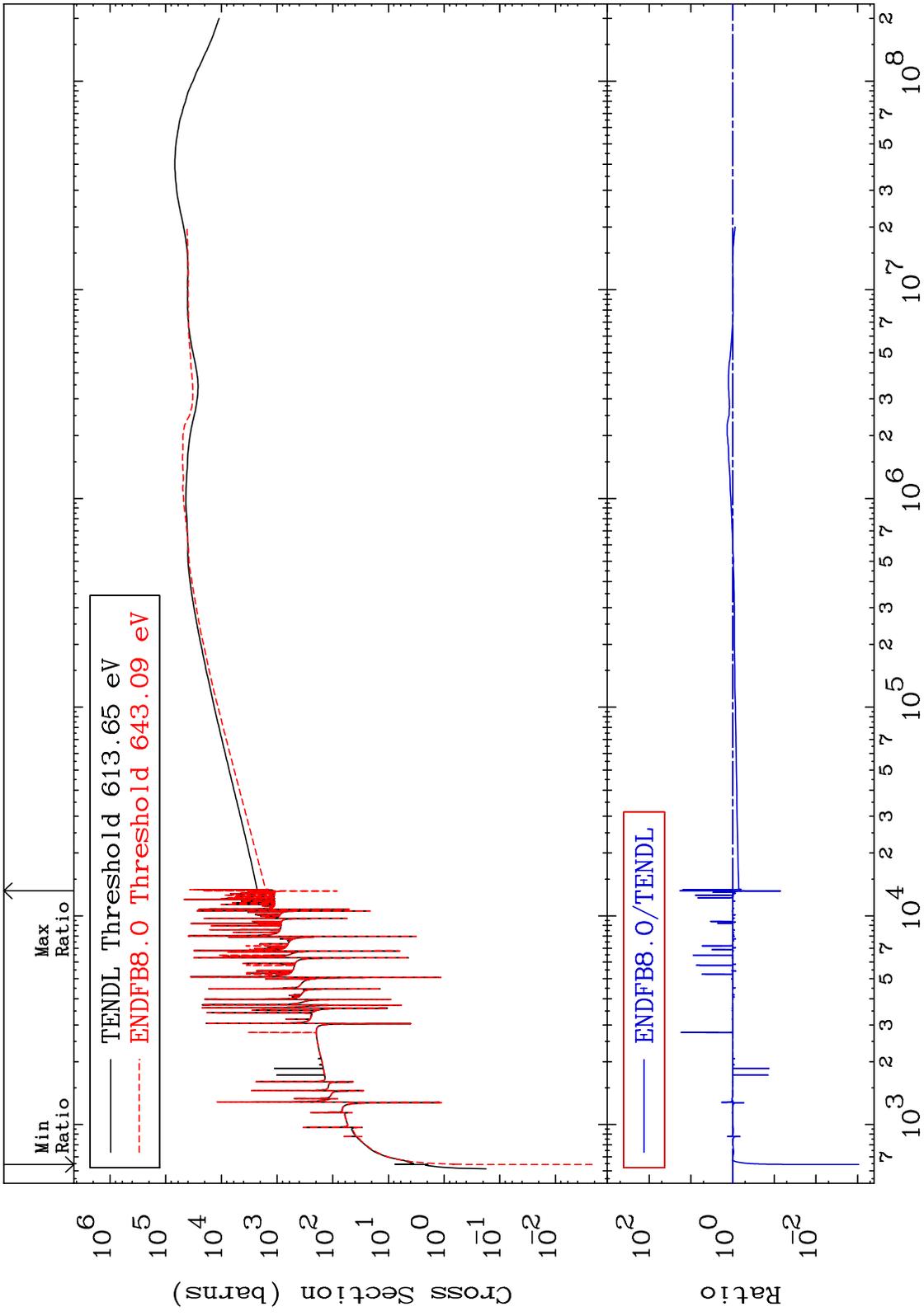
44-Ru-102  
-89.53 To 6360. %

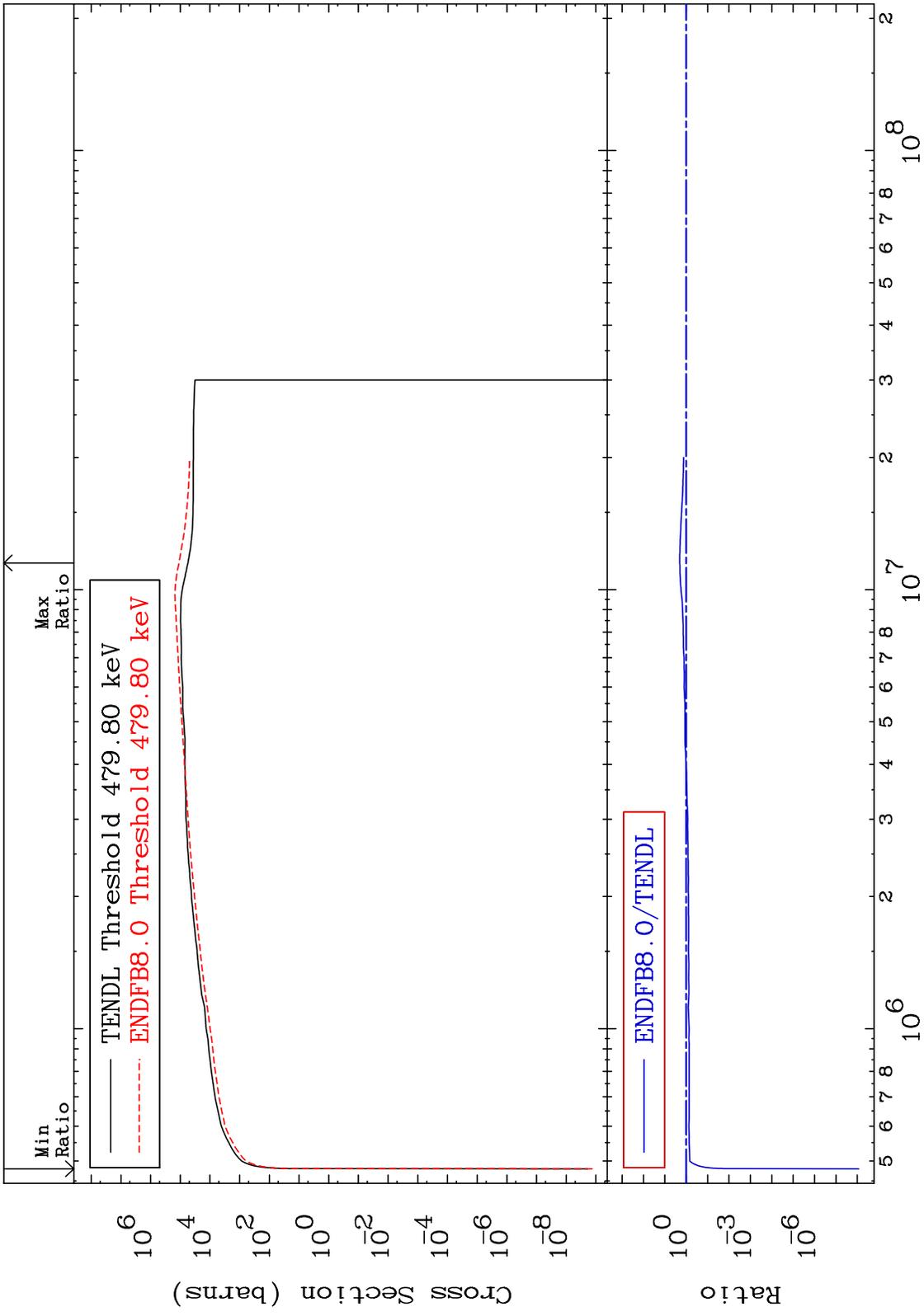


MAT 4443      Dpa total (eV-barns)      44-Ru-102  
 Cross Section      -89.52 To 6621. %



MAT 4443      Dpa elastic (mt2)      44-Ru-102  
 Cross Section      -99.91 To 1752. %





MAT 4443

Dpa disappearance (mt102 -120)  
Cross Section

44-Ru-102  
-68.40 To 9999. %

