

Program Complot  
(Version 2021-1)

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

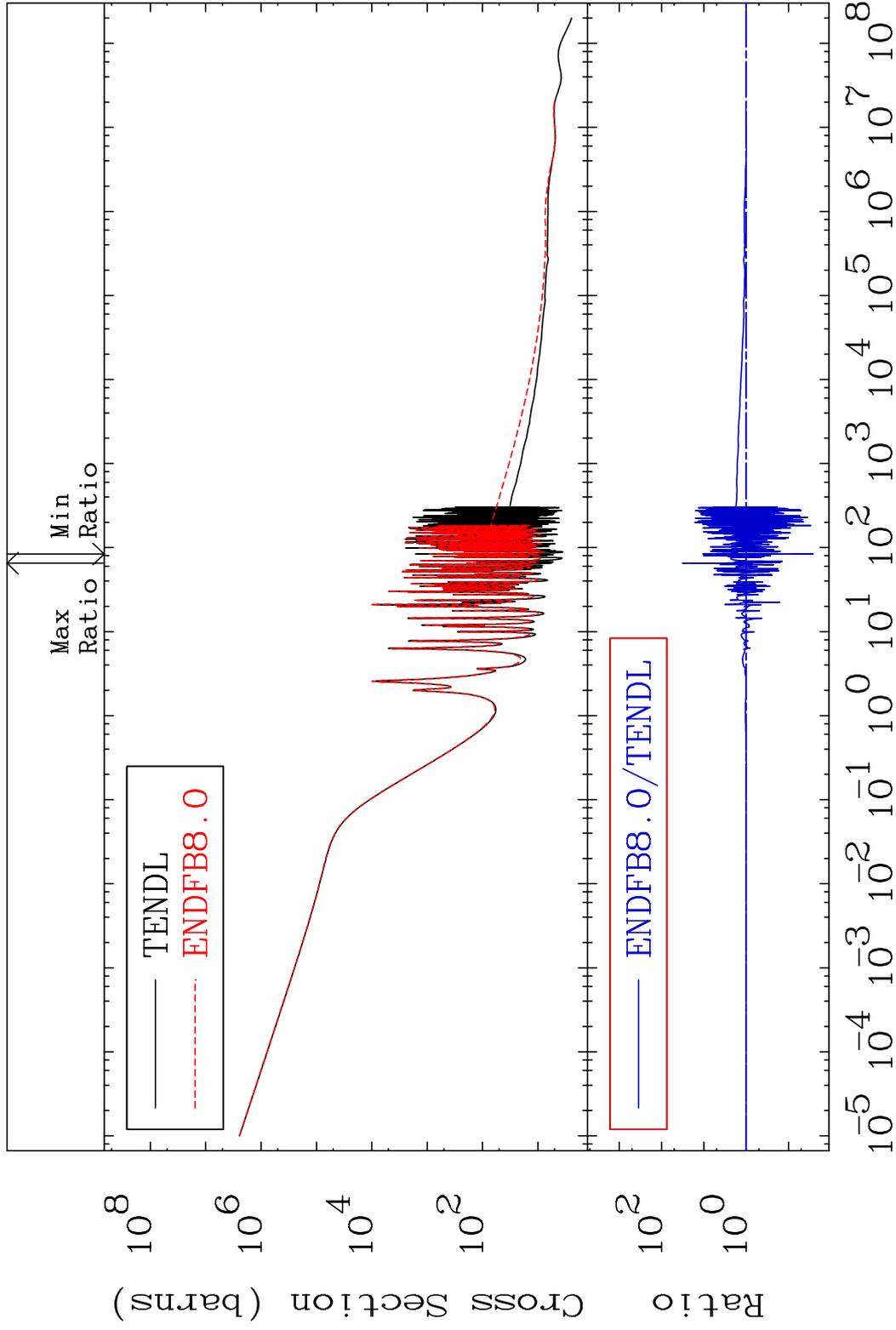
MAT 6434

Total

64-Gd-155

Cross Section

-97.39 To 3040. %



1

Incident Energy (eV)

64-Gd-155

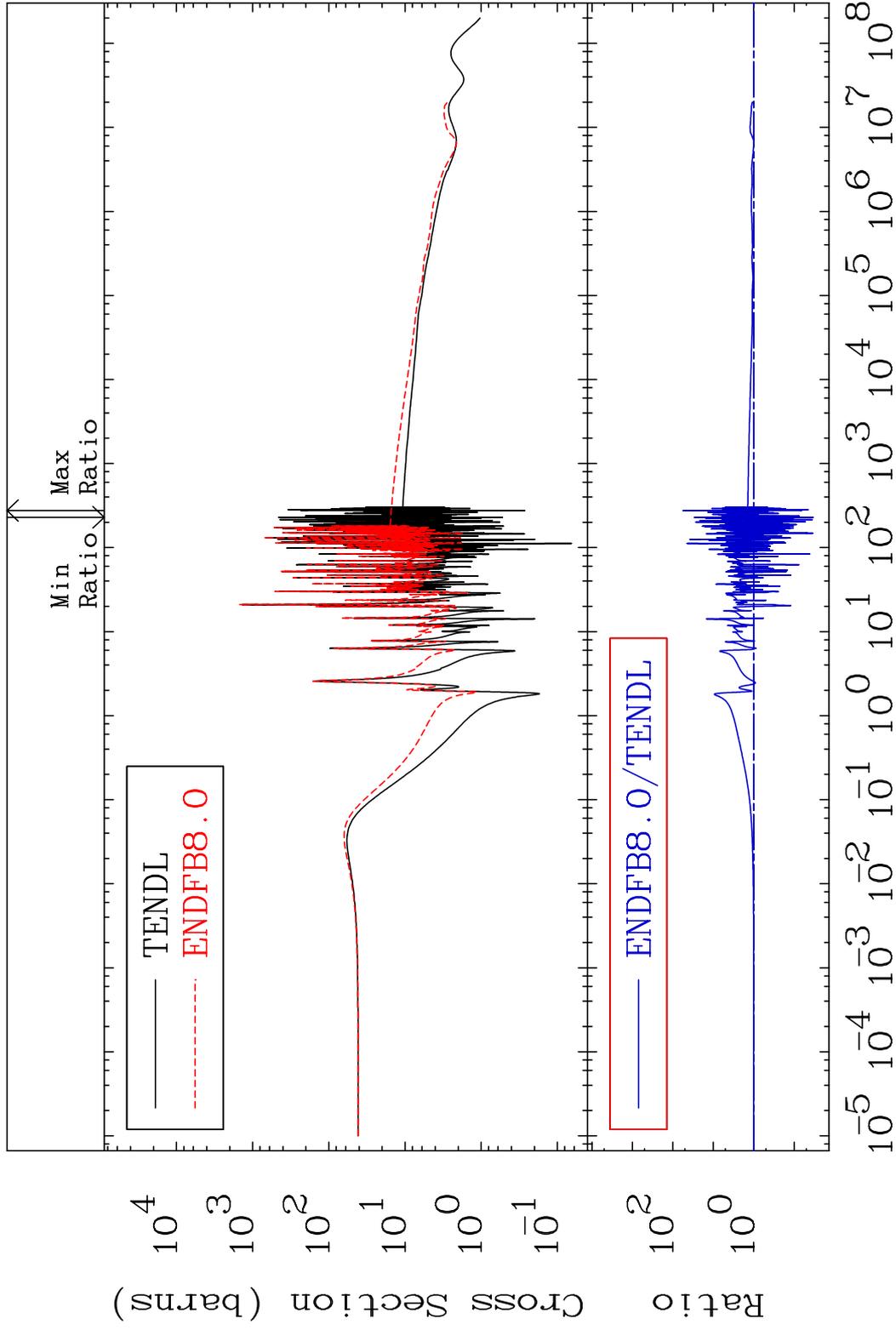
MAT 6434

Elastic

64-Gd-155

Cross Section

-96.61 To 5556. %

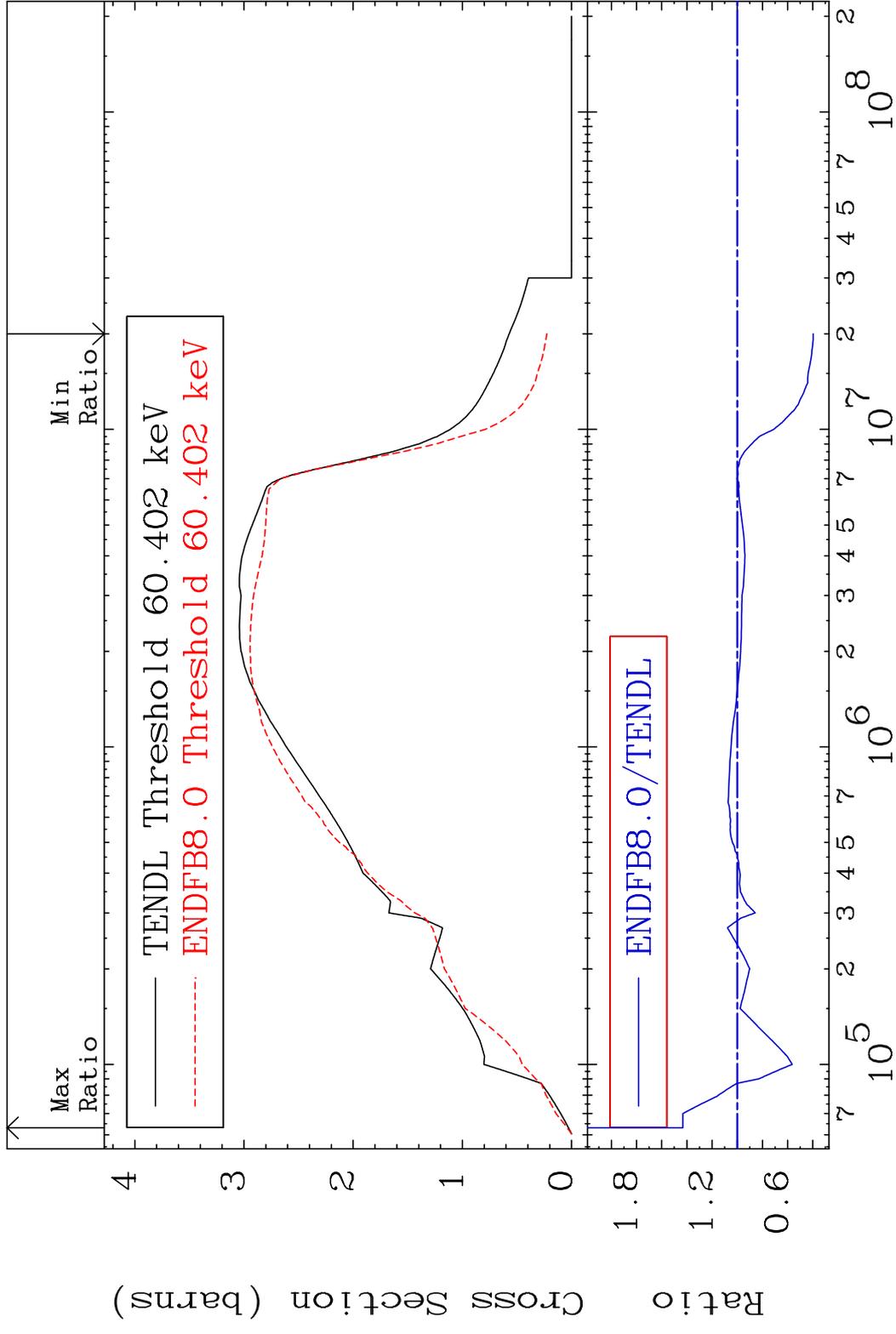


2

Incident Energy (eV)

64-Gd-155

MAT 6434 Inelastic 64-Gd-155  
 Cross Section -60.30 To 43.22 %



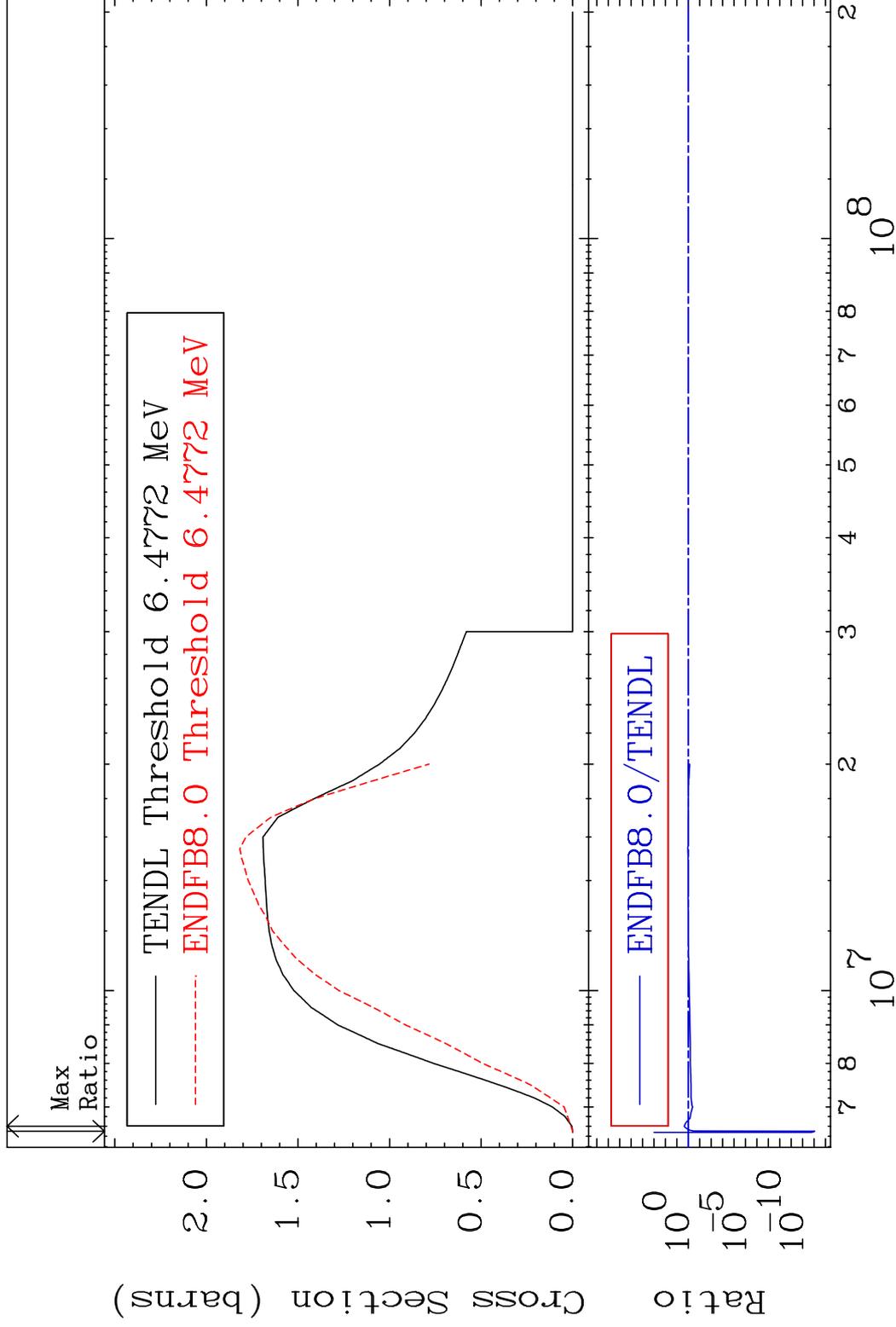
3 Incident Energy (eV) 64-Gd-155

MAT 6434

(n,2n)

64-Gd-155

Cross Section -100.0 To 130.7 %



4

Incident Energy (eV)

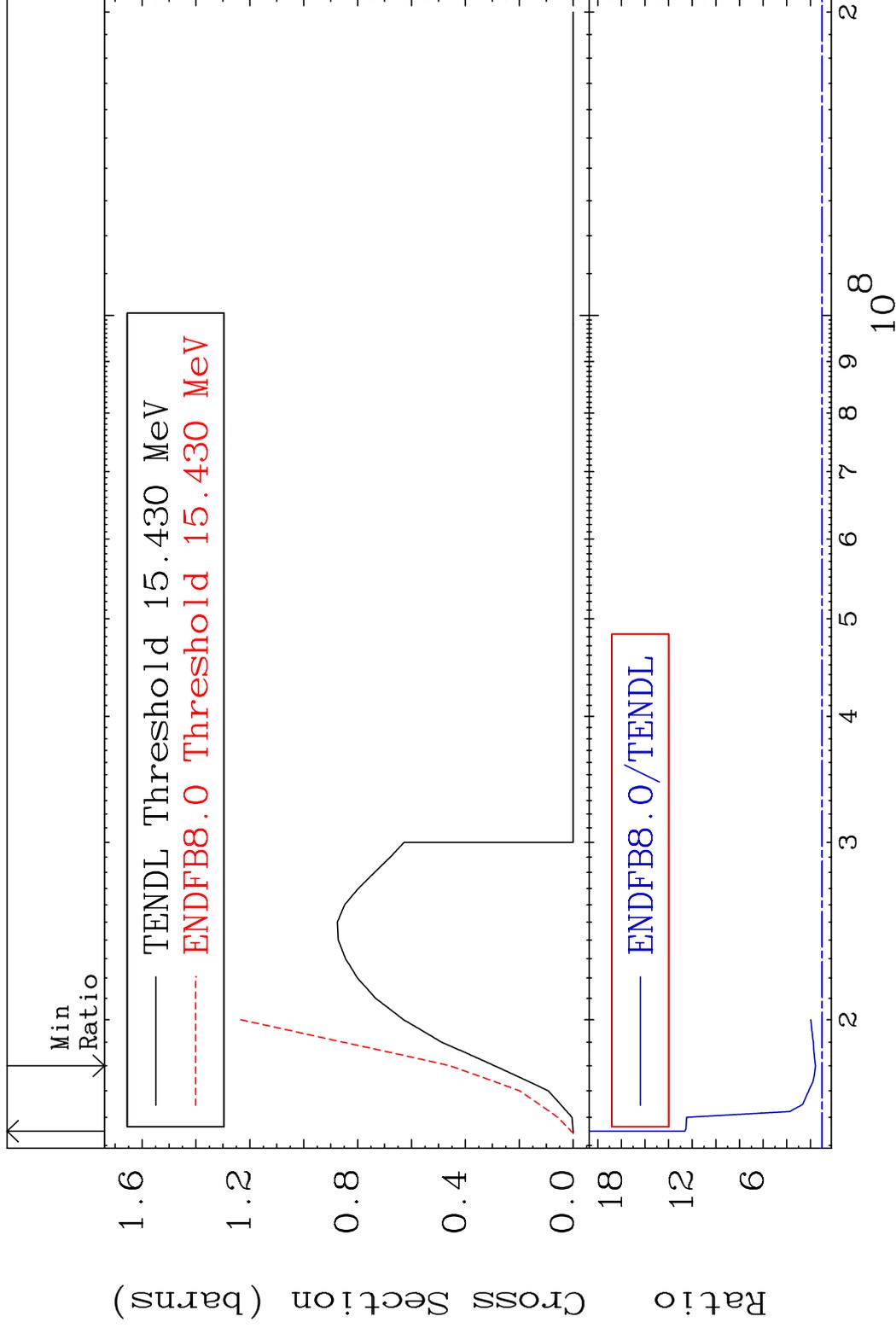
64-Gd-155

MAT 6434

(n,3n)

64-Gd-155

Cross Section 56.95 To 1163. %



5

Incident Energy (eV)

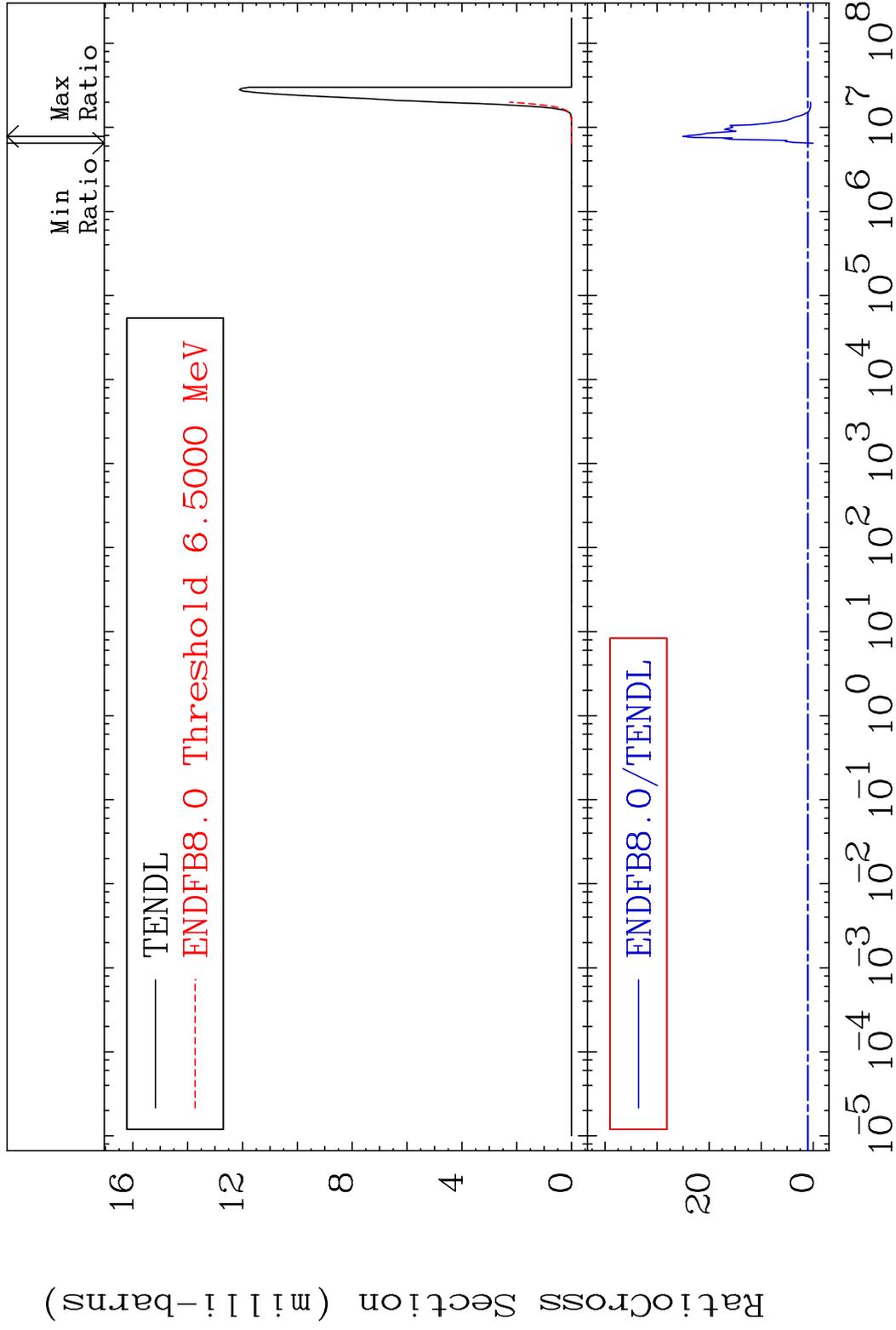
64-Gd-155

MAT 6434

(n, n')  $\alpha$

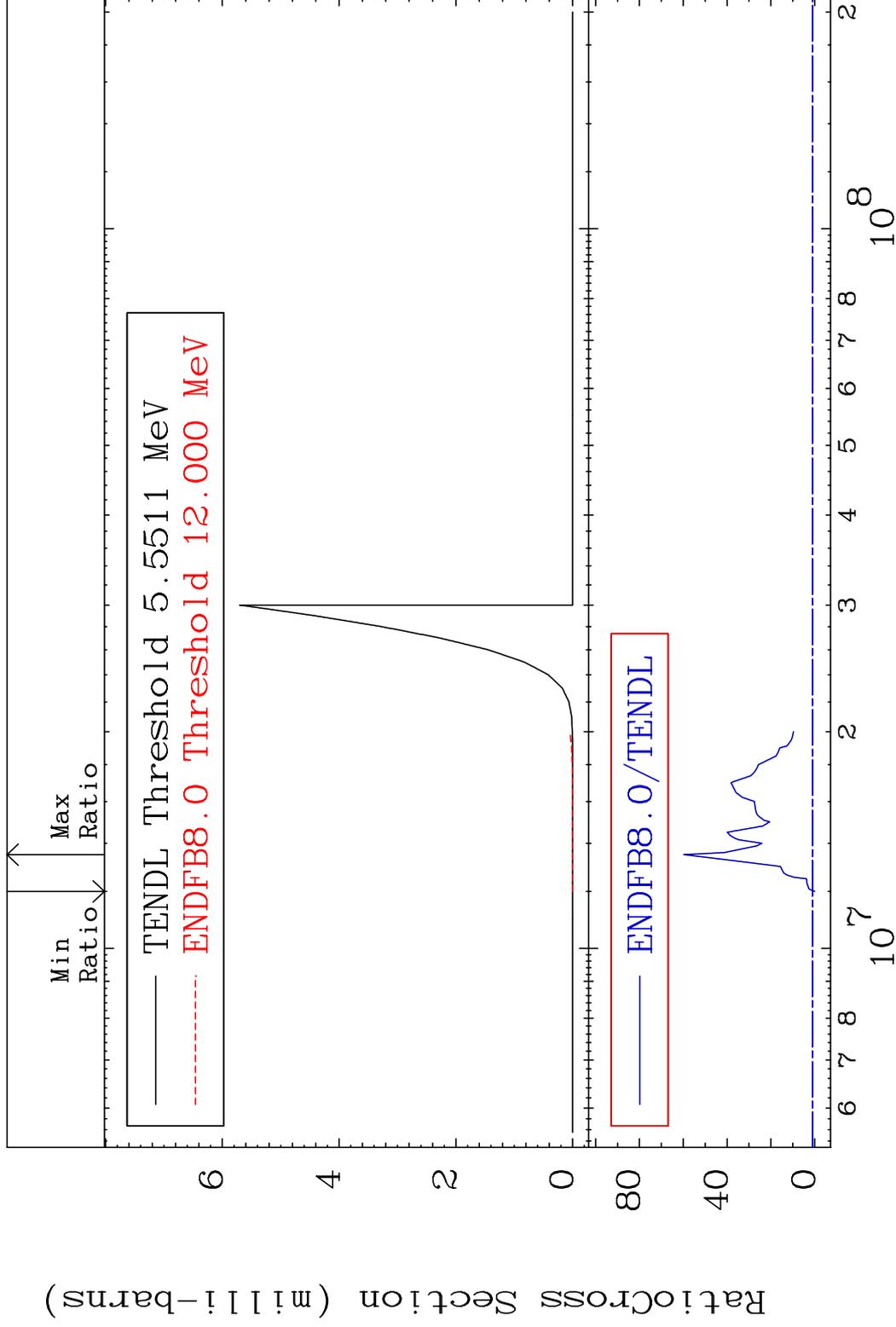
64-Gd-155

Cross Section -100.0 To 2405. %



MAT 6434

(n,2n)  $\alpha$  64-Gd-155  
Cross Section -100.0 To 5860. %



7

Incident Energy (eV)

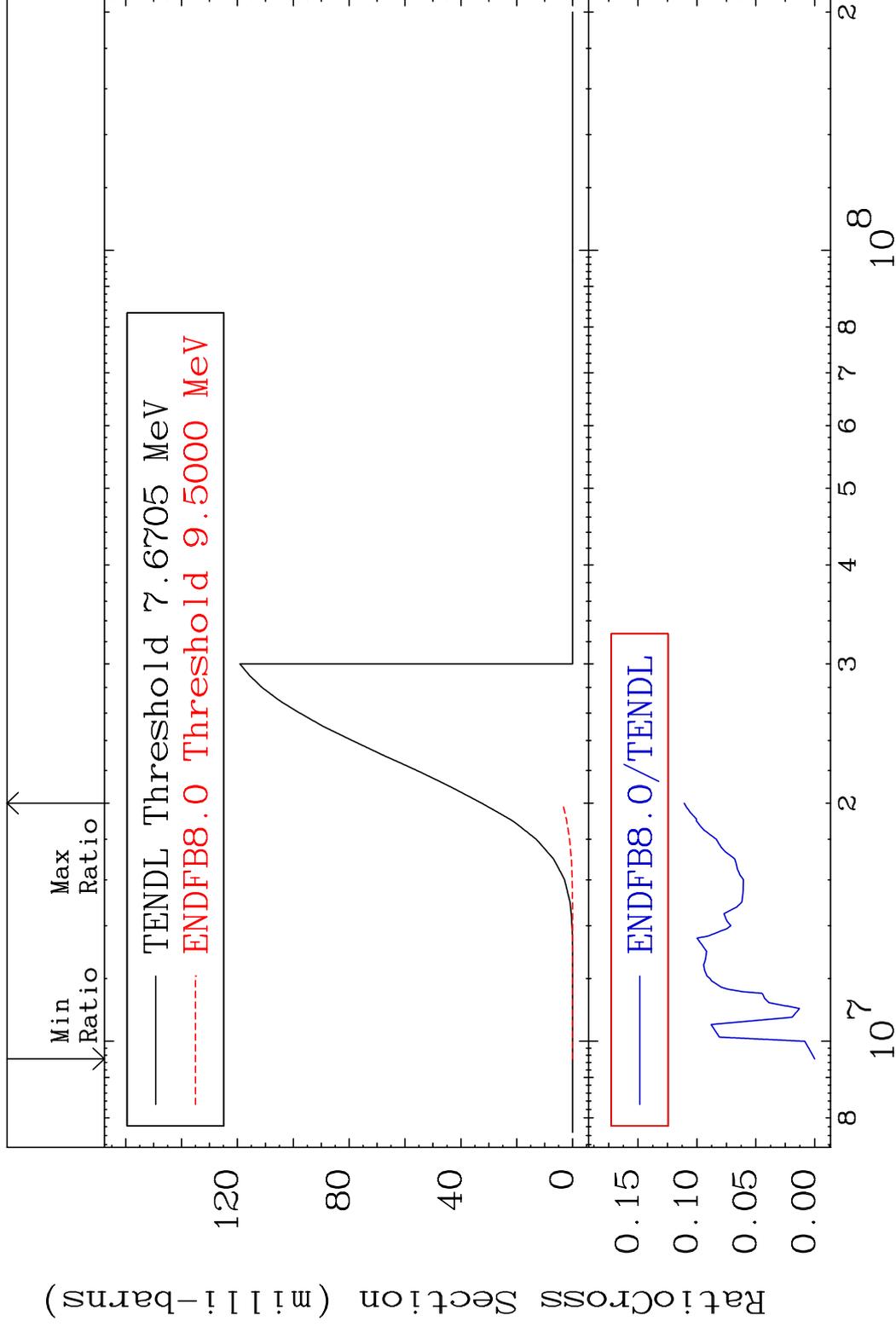
64-Gd-155

MAT 6434

(n, n') p

64-Gd-155

Cross Section -100.0 To -88.91%



8

Incident Energy (eV)

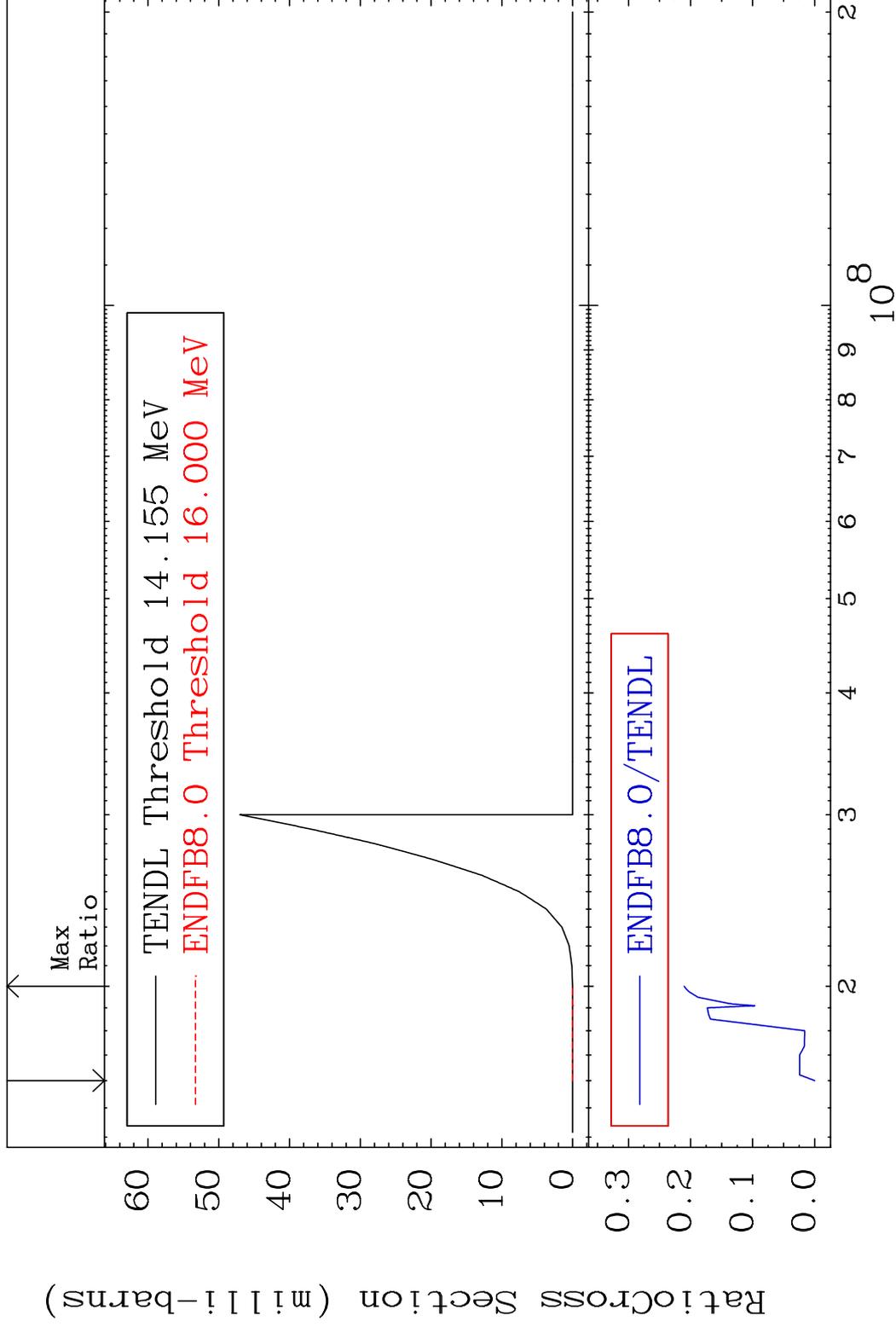
64-Gd-155

MAT 6434

(n,2n) p

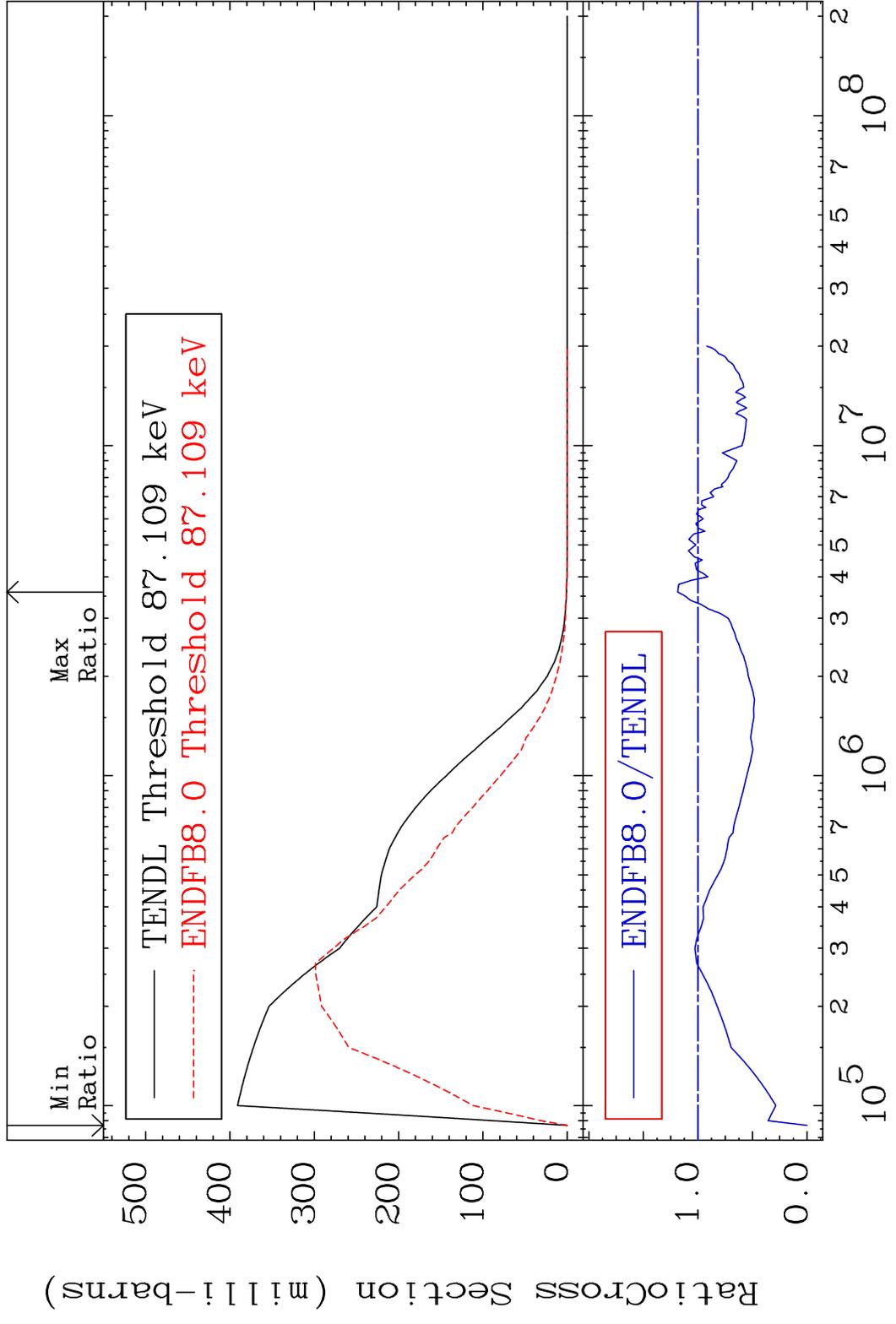
64-Gd-155

Cross Section -100.0 To -78.96%



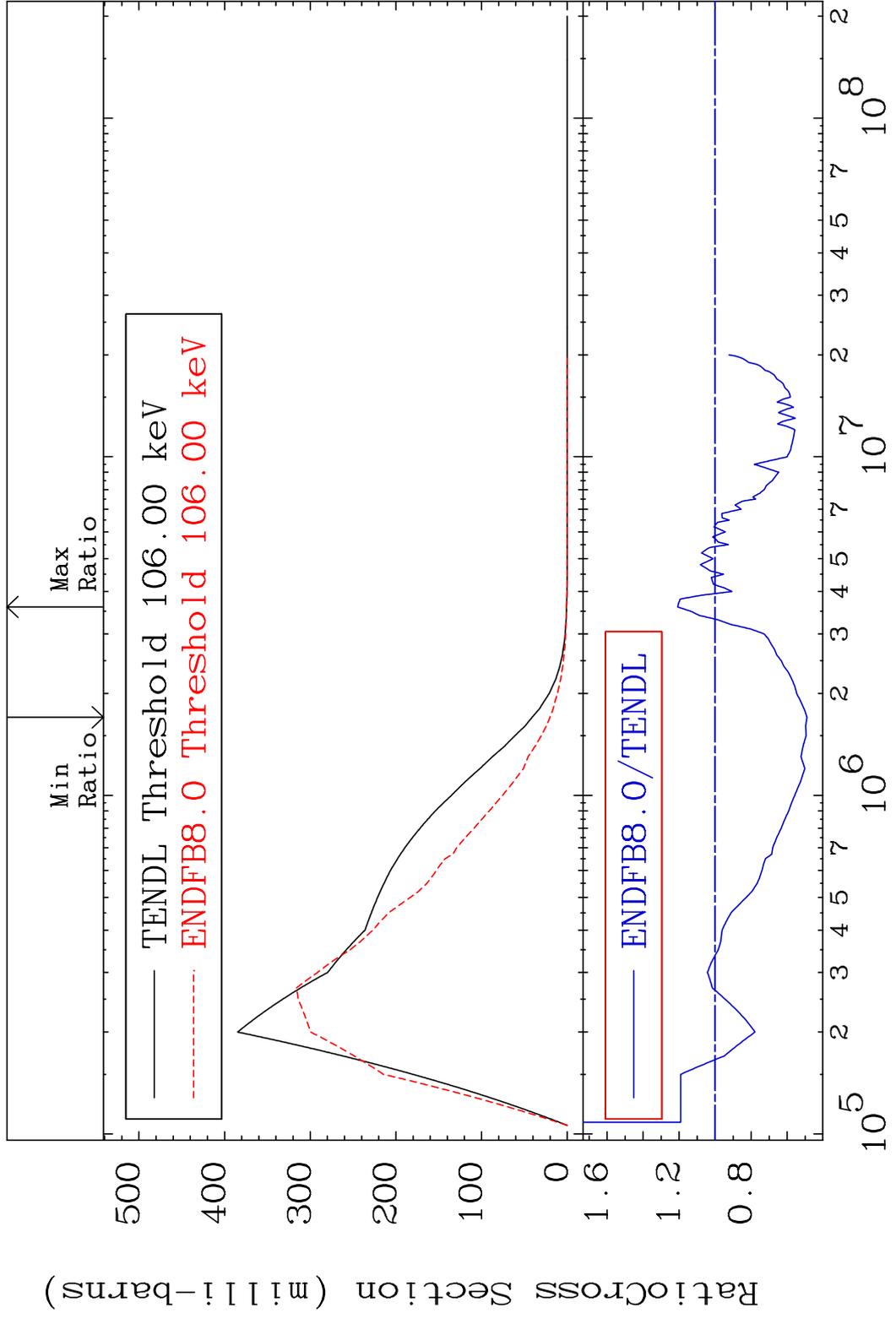


MAT 6434 MT= 52 (n, n') Level 64-Gd-155  
 Cross Section -100.0 To 18.56 %

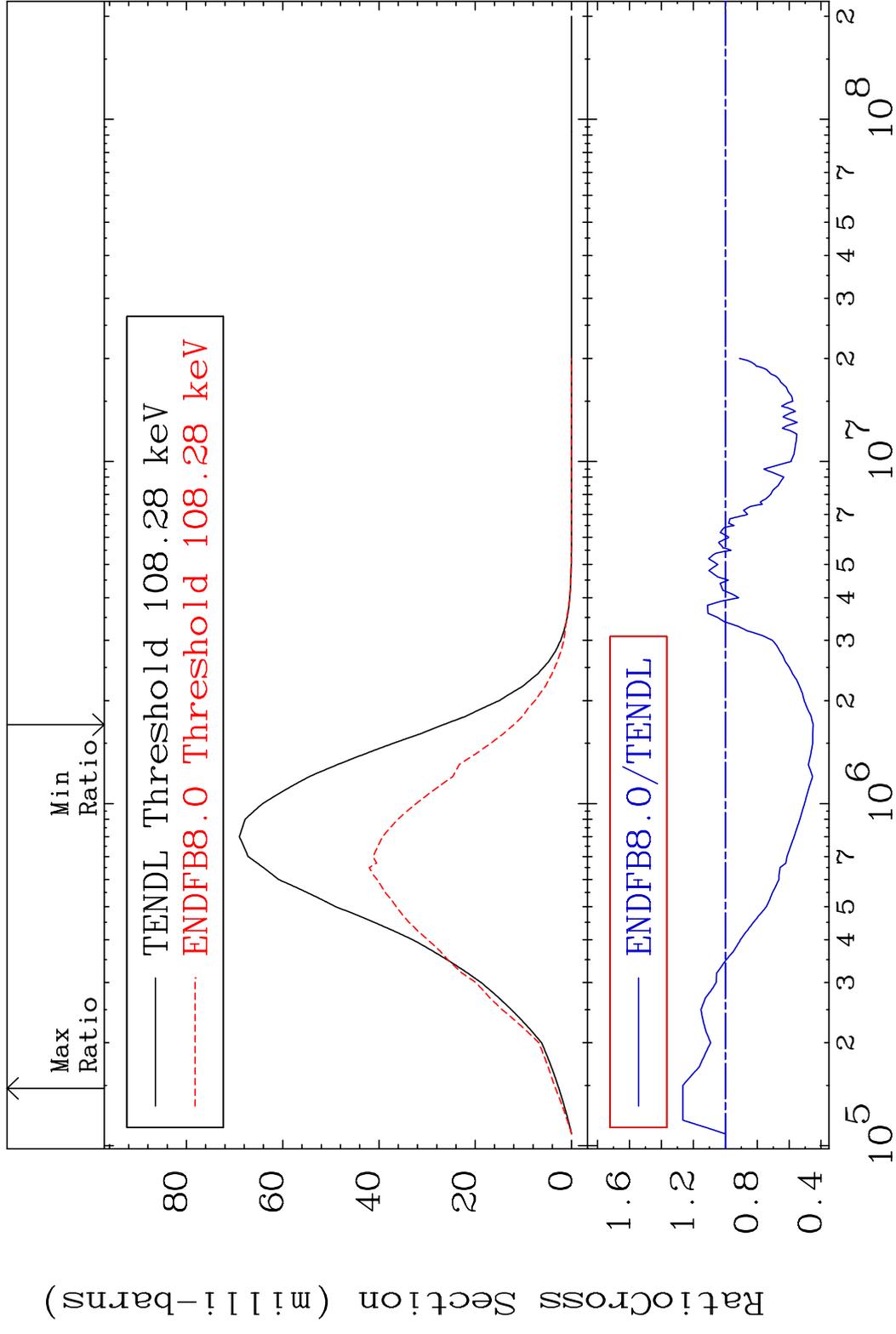


11 Incident Energy (eV) 64-Gd-155

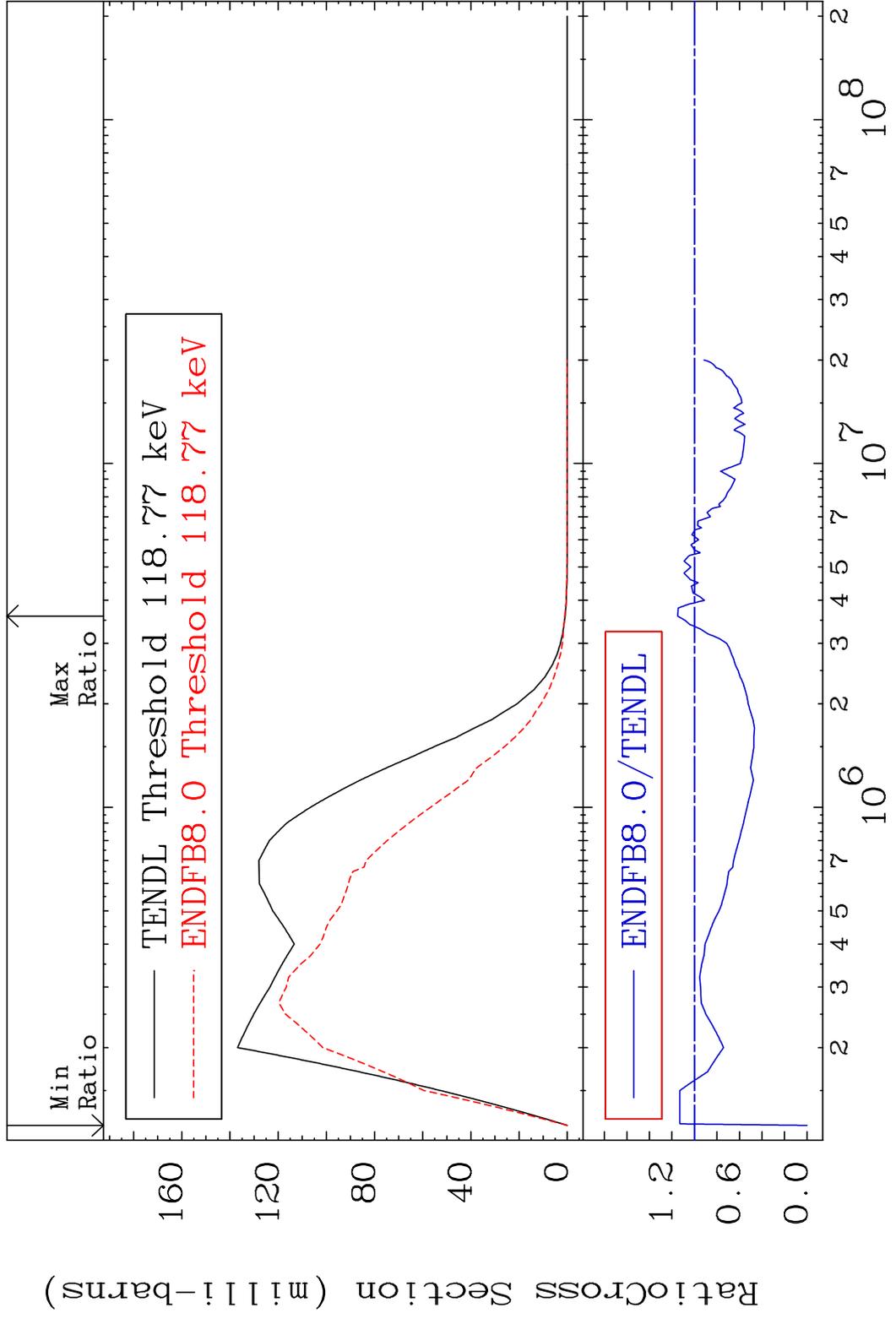
MAT 6434 MT= 53 (n, n') Level 64-Gd-155  
 Cross Section -51.01 To 20.79 %



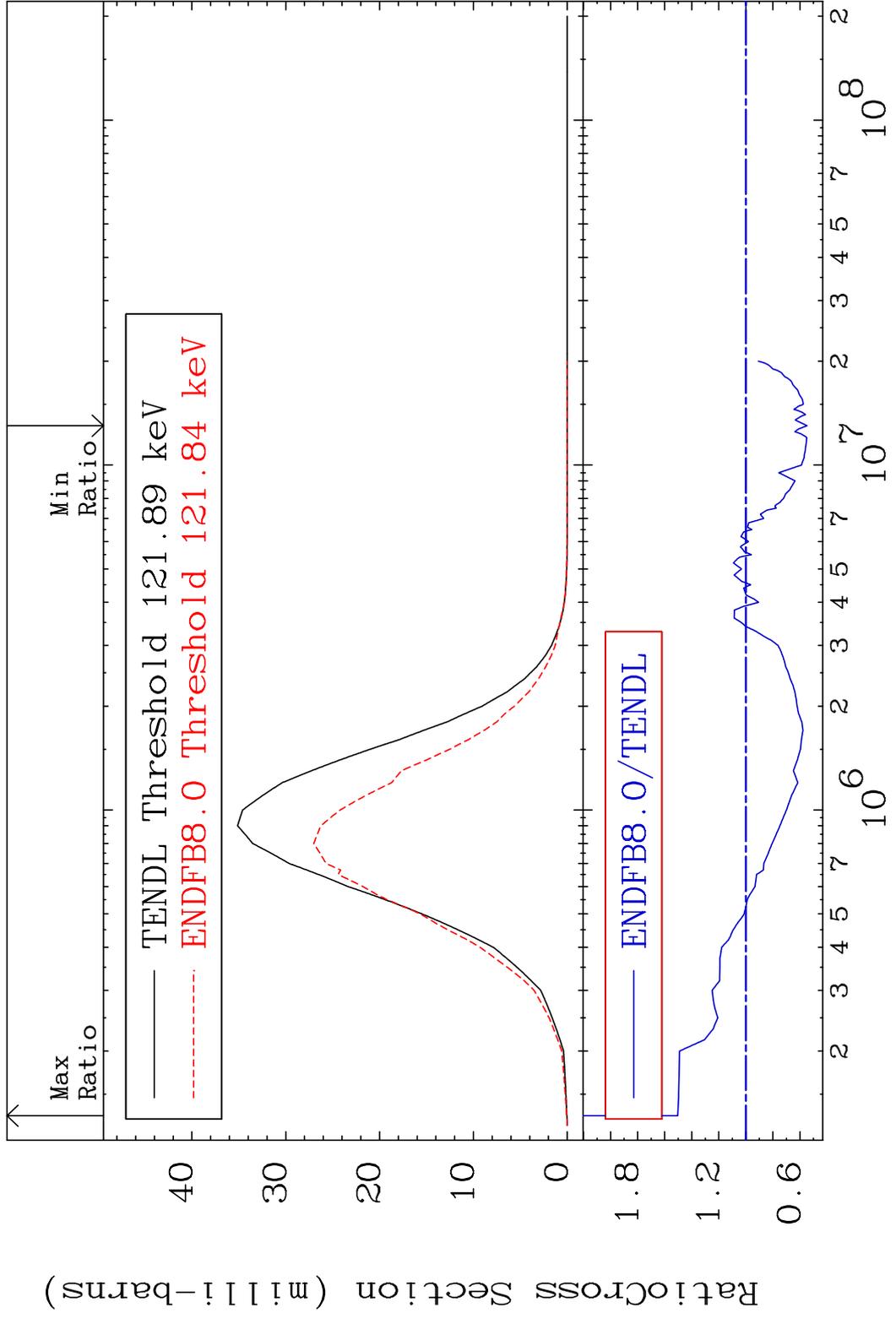
MAT 6434 MT= 54 (n,n') Level 64-Gd-155  
 Cross Section -55.04 To 26.60 %



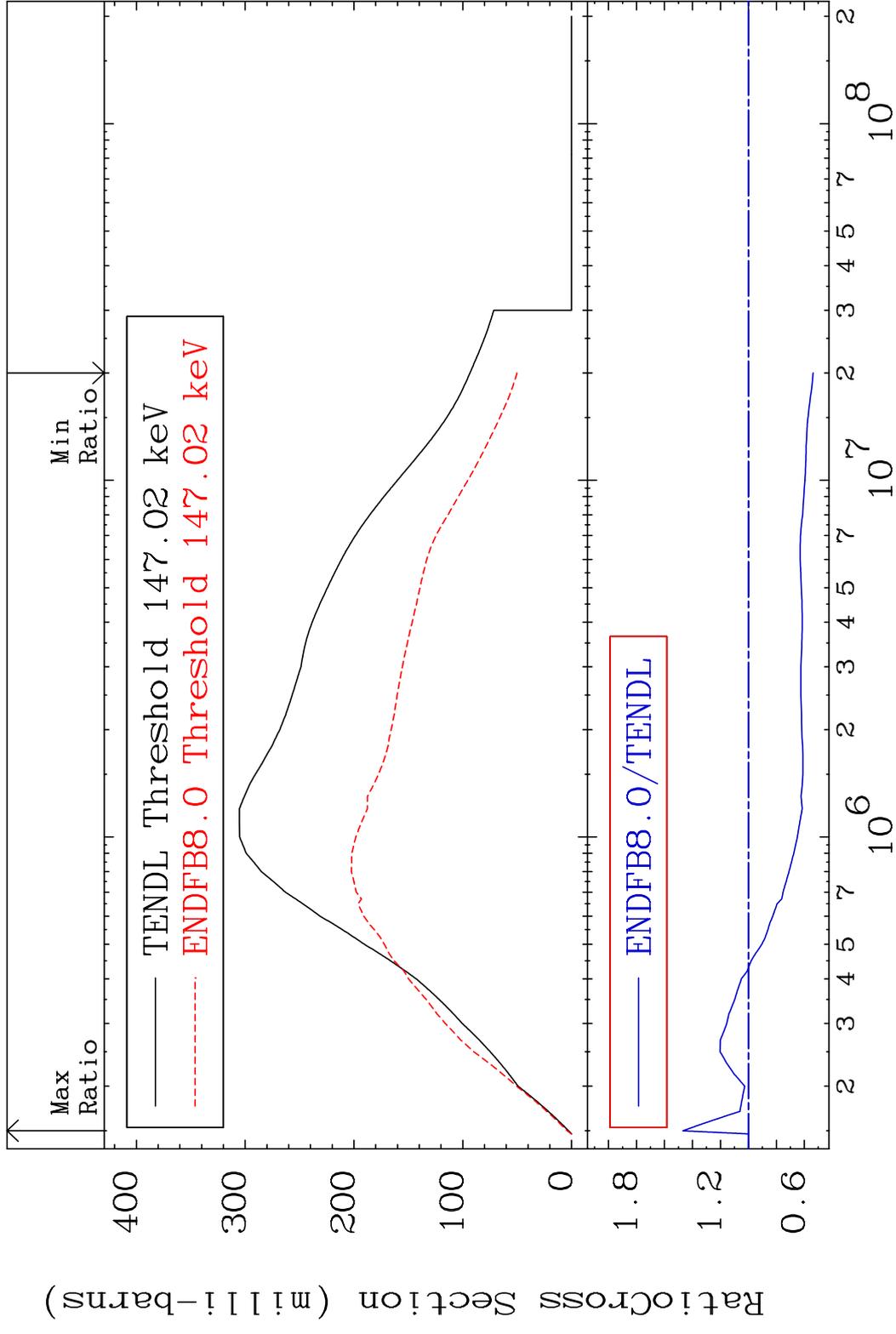
MAT 6434 MT= 55 (n, n') Level 64-Gd-155  
 Cross Section -100.0 To 14.89 %



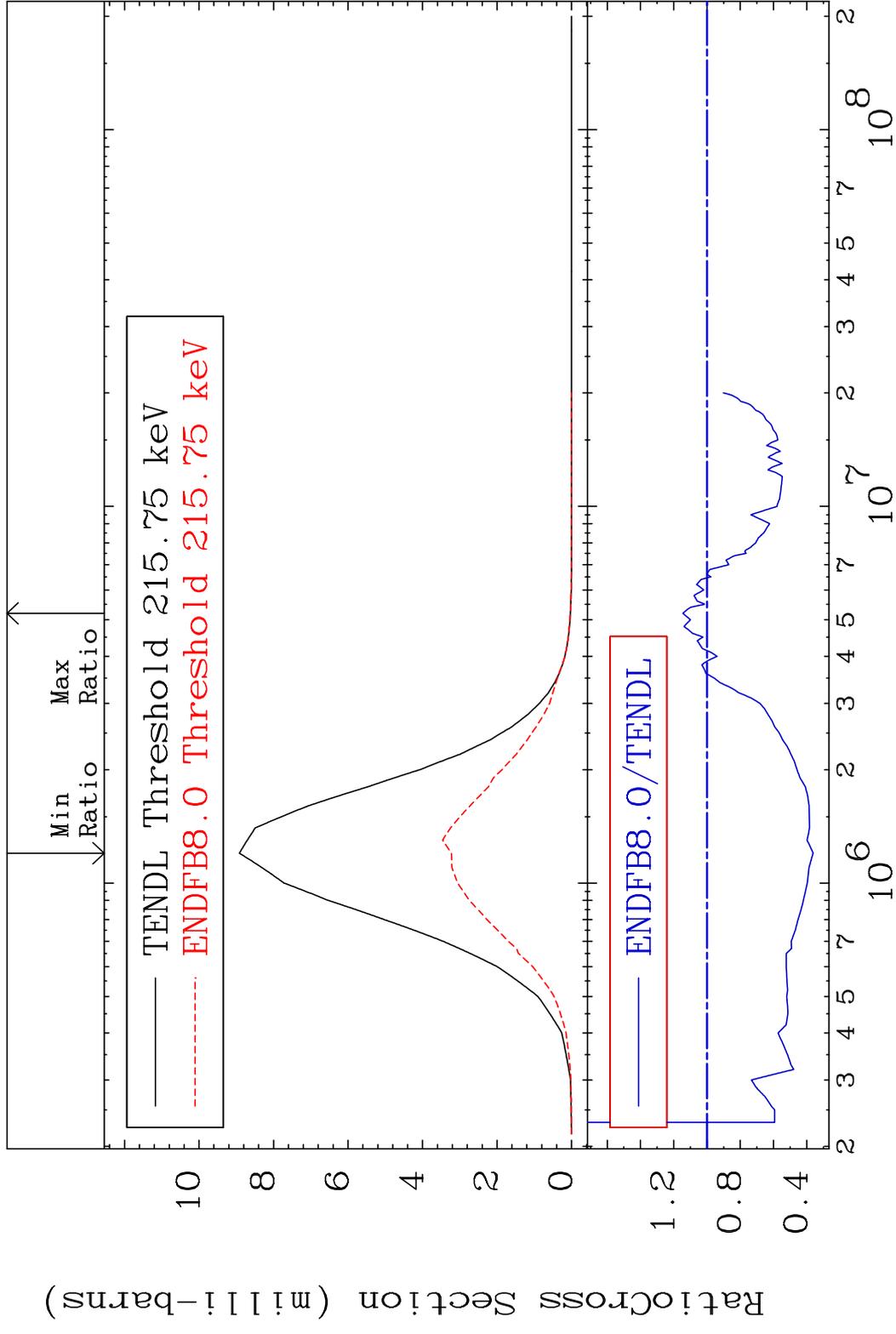
MAT 6434 MT= 56 (n,n') Level 64-Gd-155  
 Cross Section -45.23 To 50.39 %



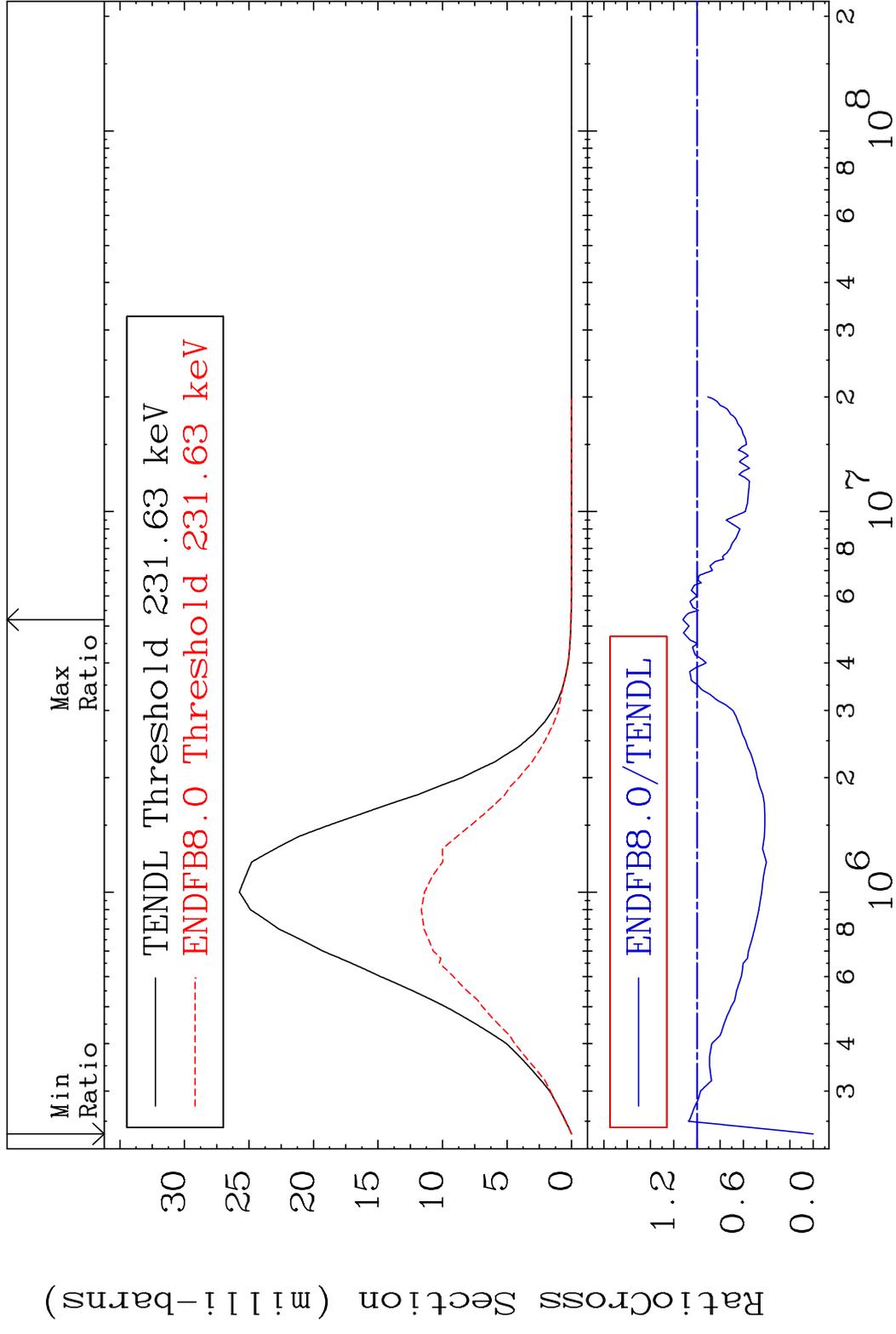
MAT 6434 MT= 57 (n, n') Level 64-Gd-155  
 Cross Section -46.31 To 46.88 %



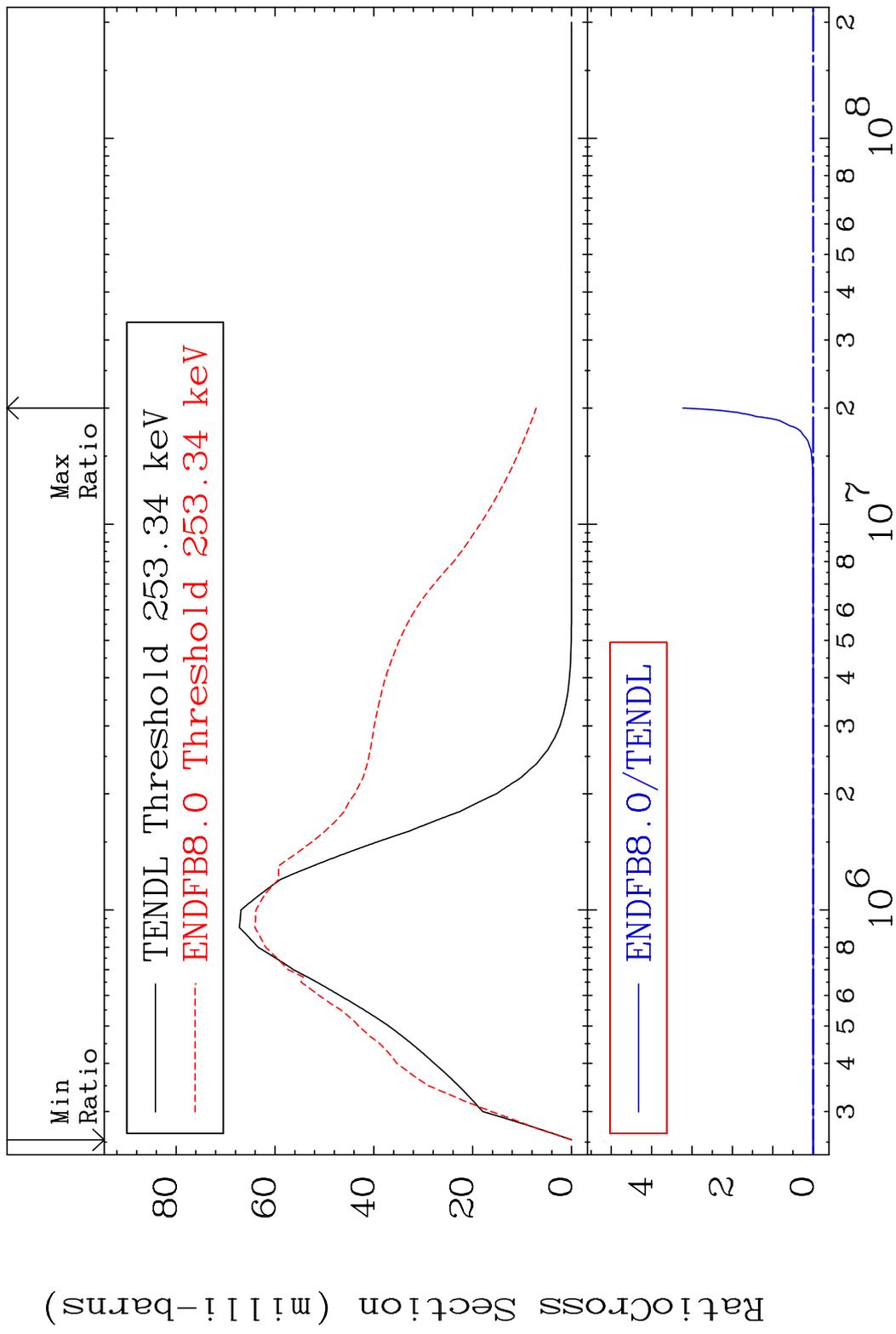
MAT 6434 MT= 58 (n,n') Level 64-Gd-155  
 Cross Section -63.84 To 14.52 %



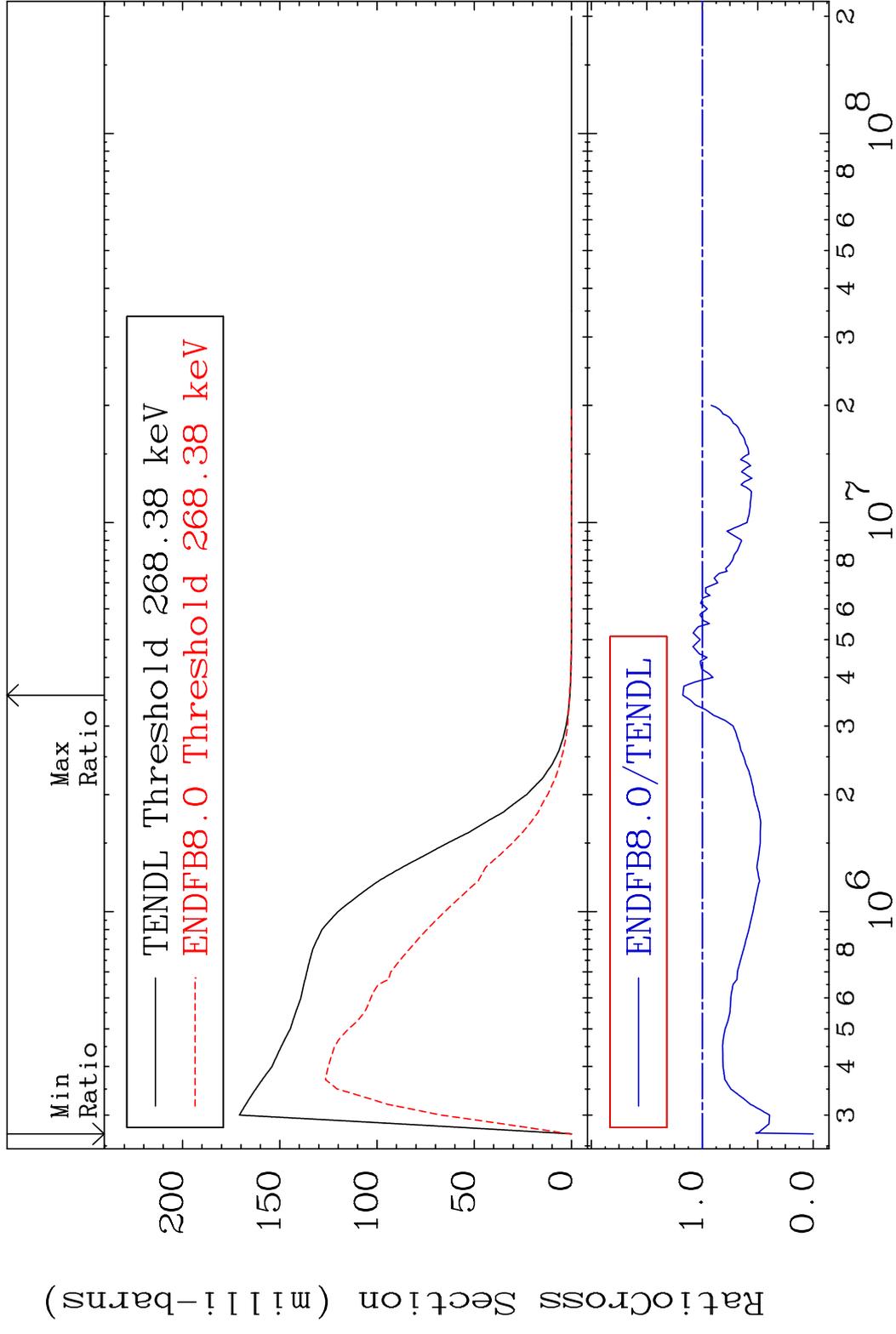
MAT 6434 MT= 59 (n, n') Level 64-Gd-155  
 Cross Section -100.0 To 12.13 %



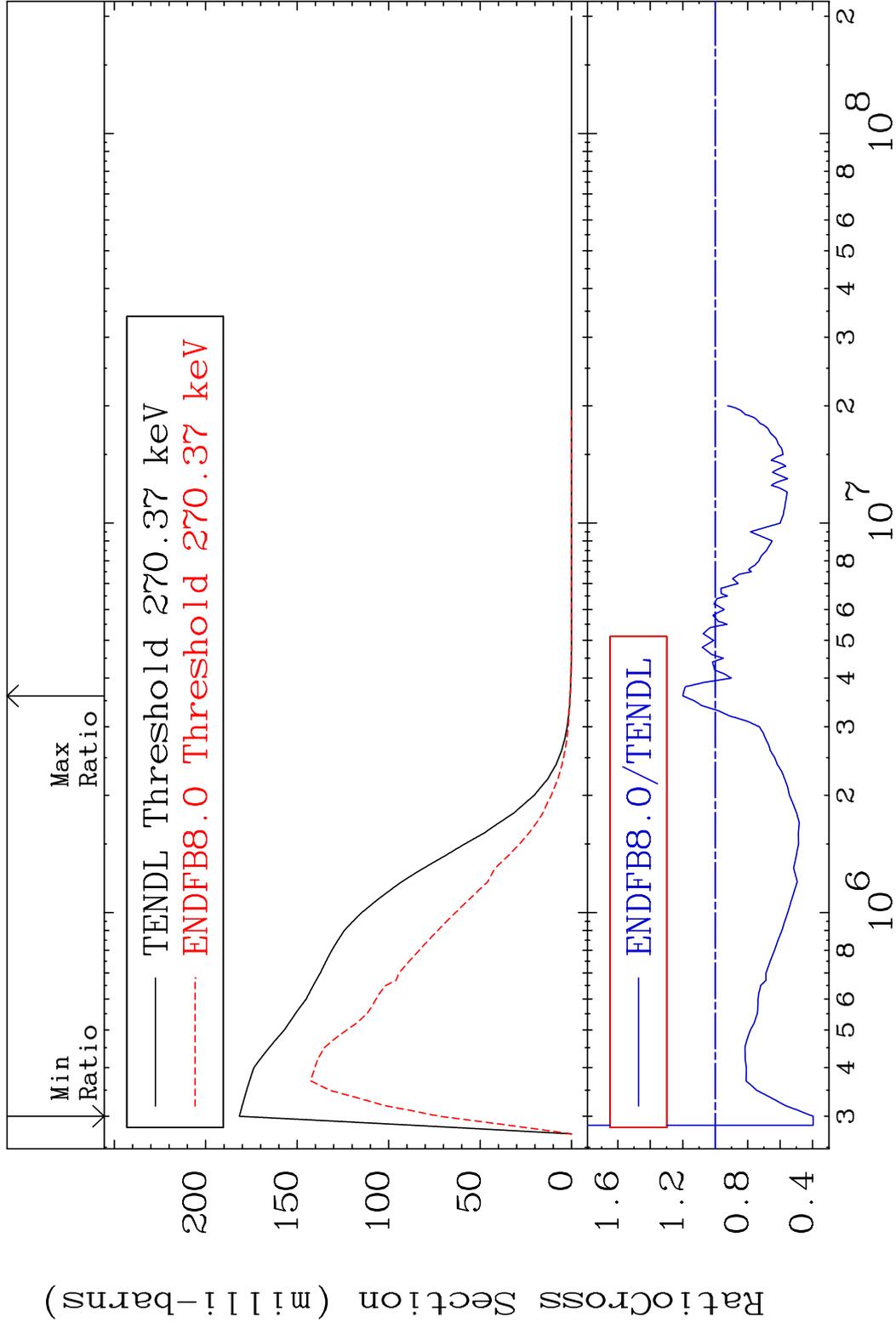
MAT 6434 MT= 60 (n, n') Level 64-Gd-155  
 Cross Section -100.0 To 9999. %



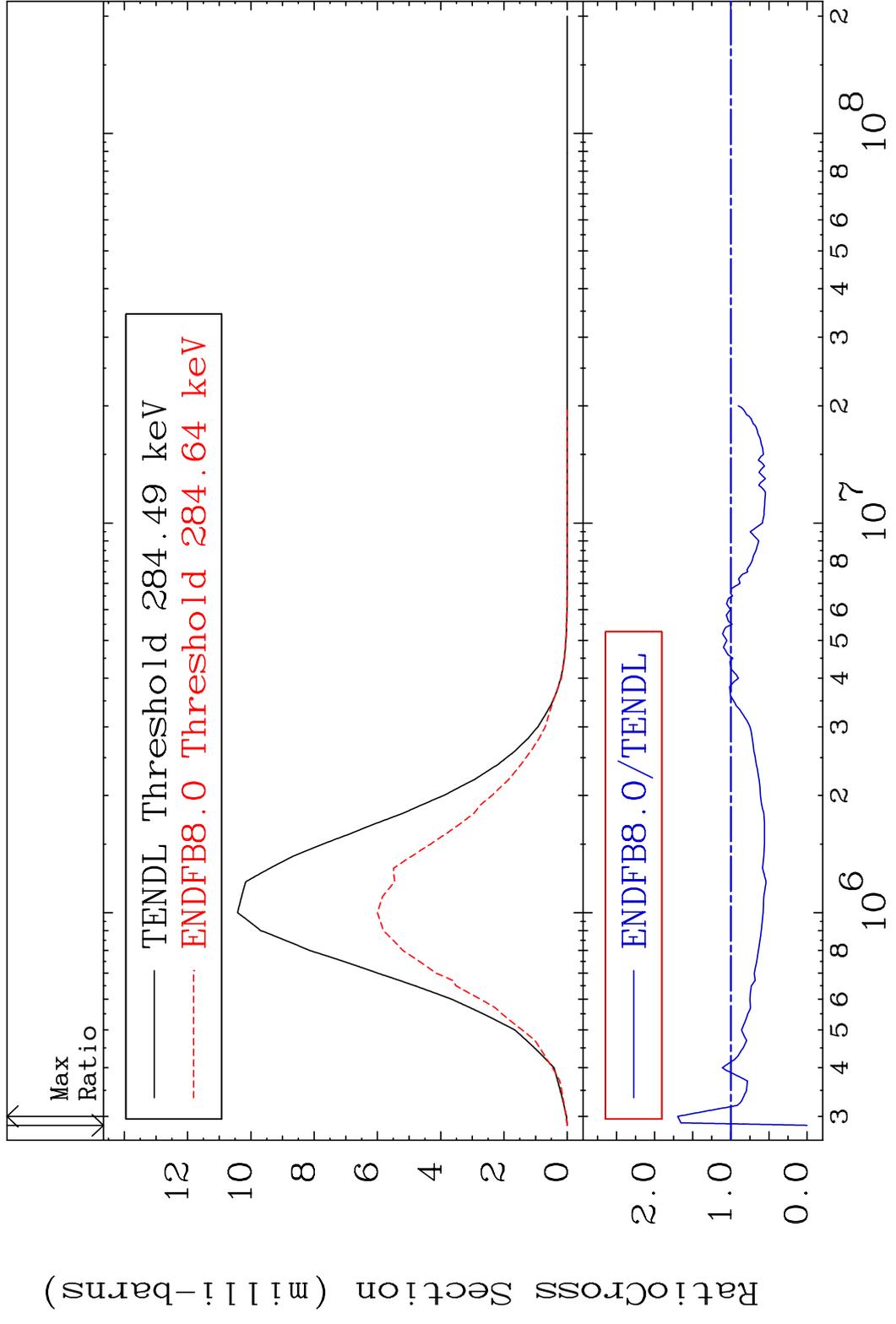
MAT 6434 MT= 61 (n, n') Level 64-Gd-155  
 Cross Section -100.0 To 17.47 %



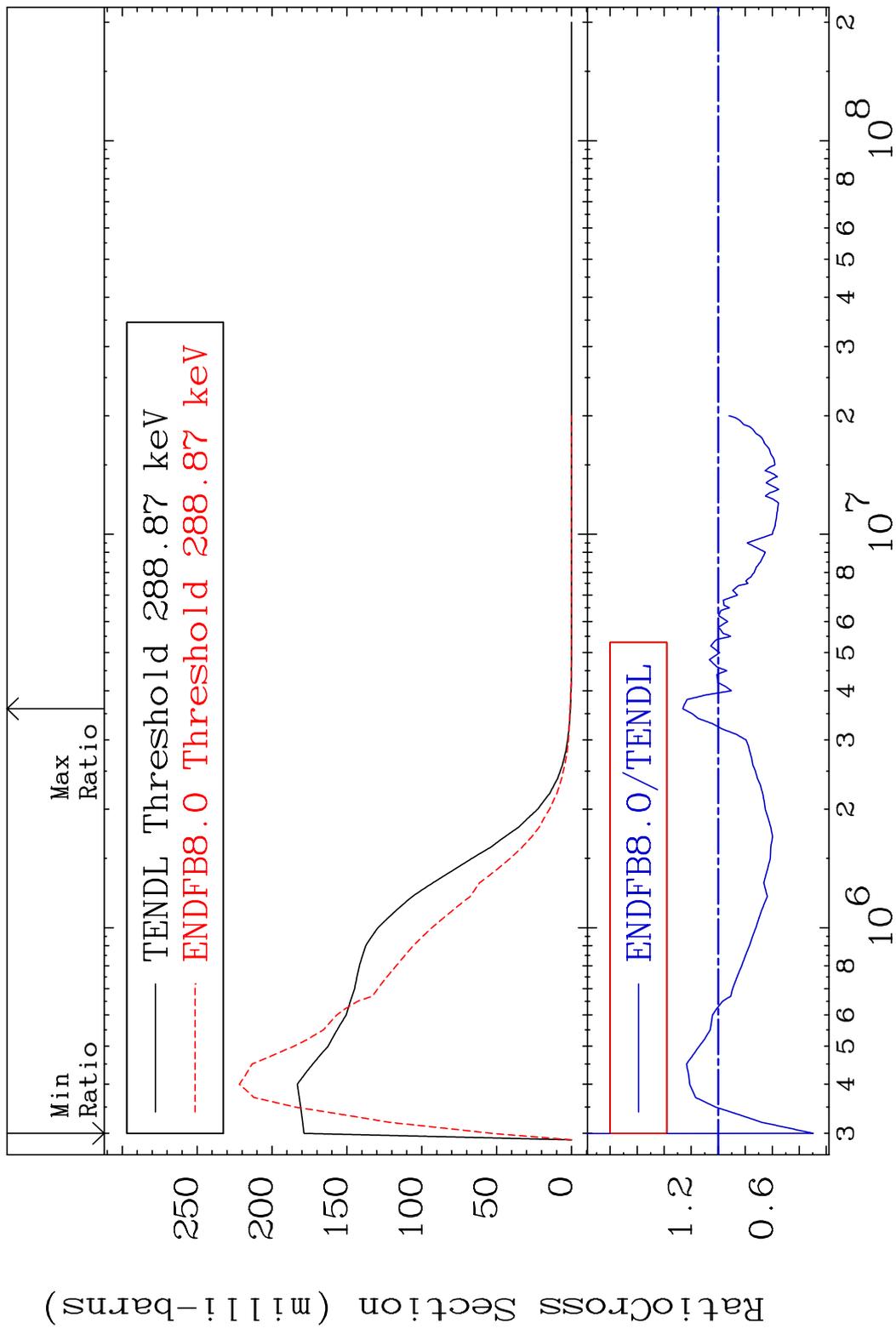
MAT 6434 MT= 62 (n, n') Level 64-Gd-155  
 Cross Section -60.36 To 19.96 %



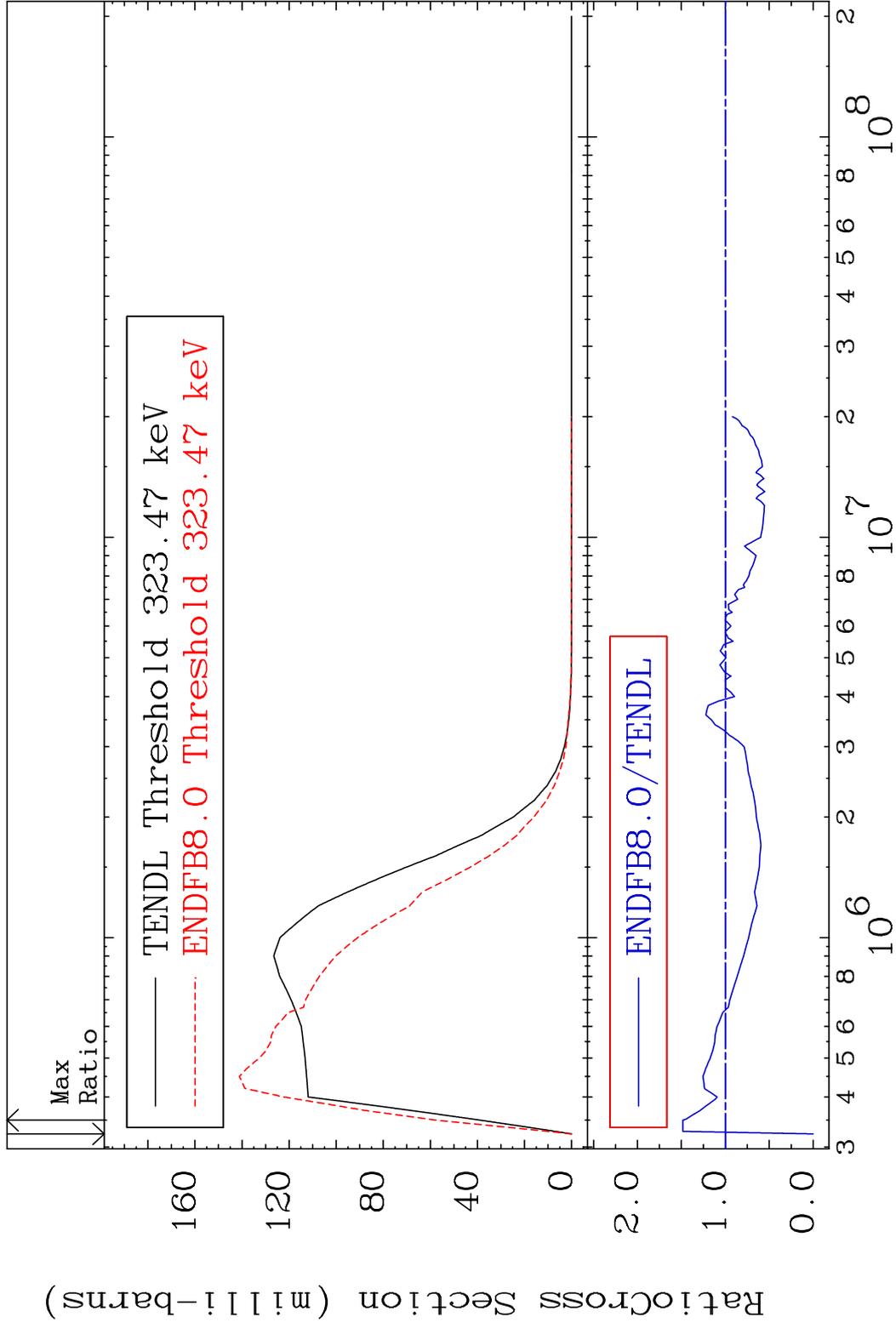
MAT 6434 MT= 63 (n,n') Level 64-Gd-155  
 Cross Section -100.0 To 69.78 %



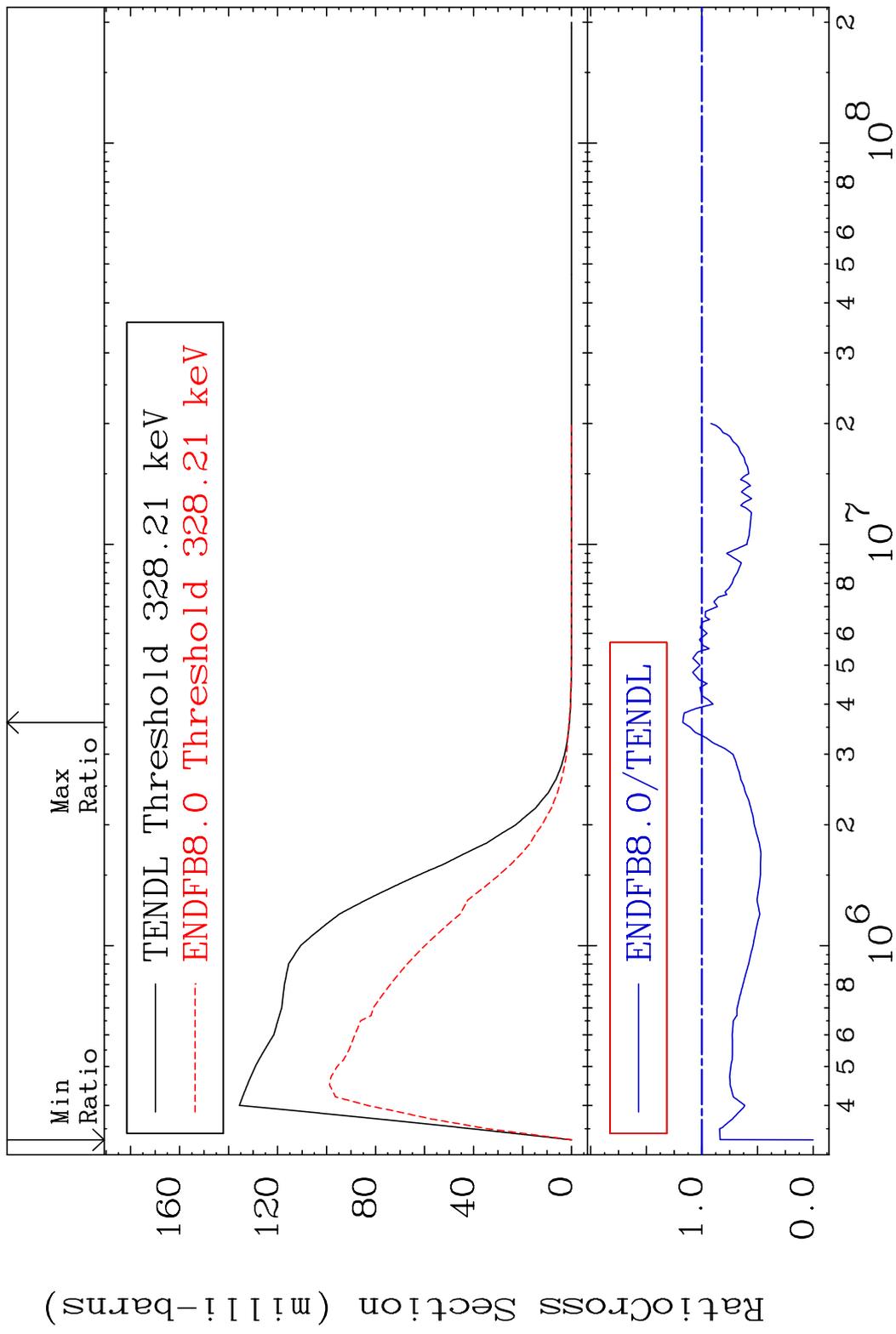
MAT 6434 MT= 64 (n, n') Level 64-Gd-155  
 Cross Section -70.28 To 26.17 %



MAT 6434 MT= 65 (n,n') Level 64-Gd-155  
 Cross Section -100.0 To 48.34 %



MAT 6434 MT= 66 (n,n') Level 64-Gd-155  
 Cross Section -100.0 To 17.17 %

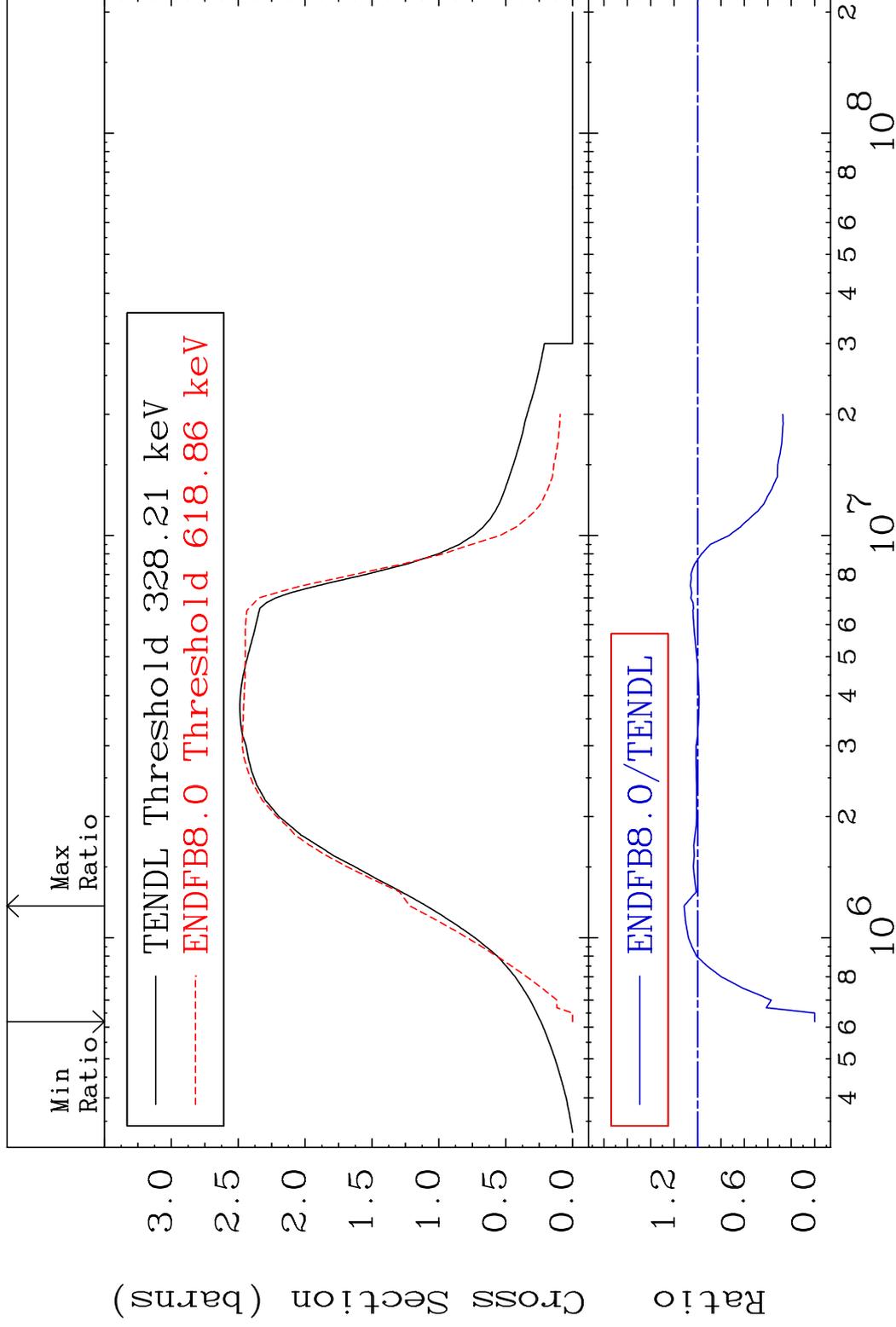


MAT 6434

(n, n') Continuum

64-Gd-155

Cross Section -100.0 To 11.46 %

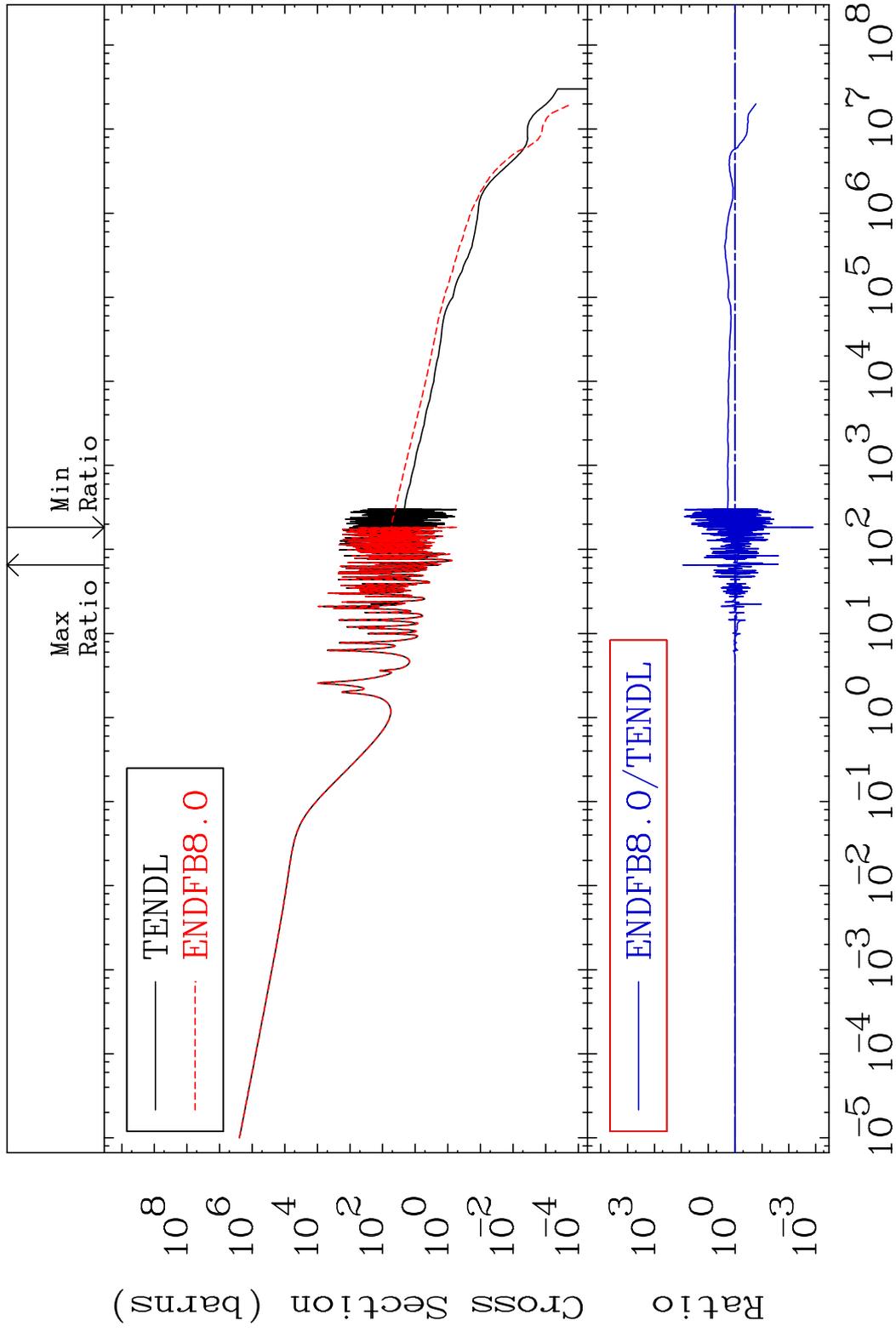


MAT 6434

(n,  $\gamma$ )

64-Gd-155

Cross Section -99.88 To 8730. %



27

Incident Energy (eV)

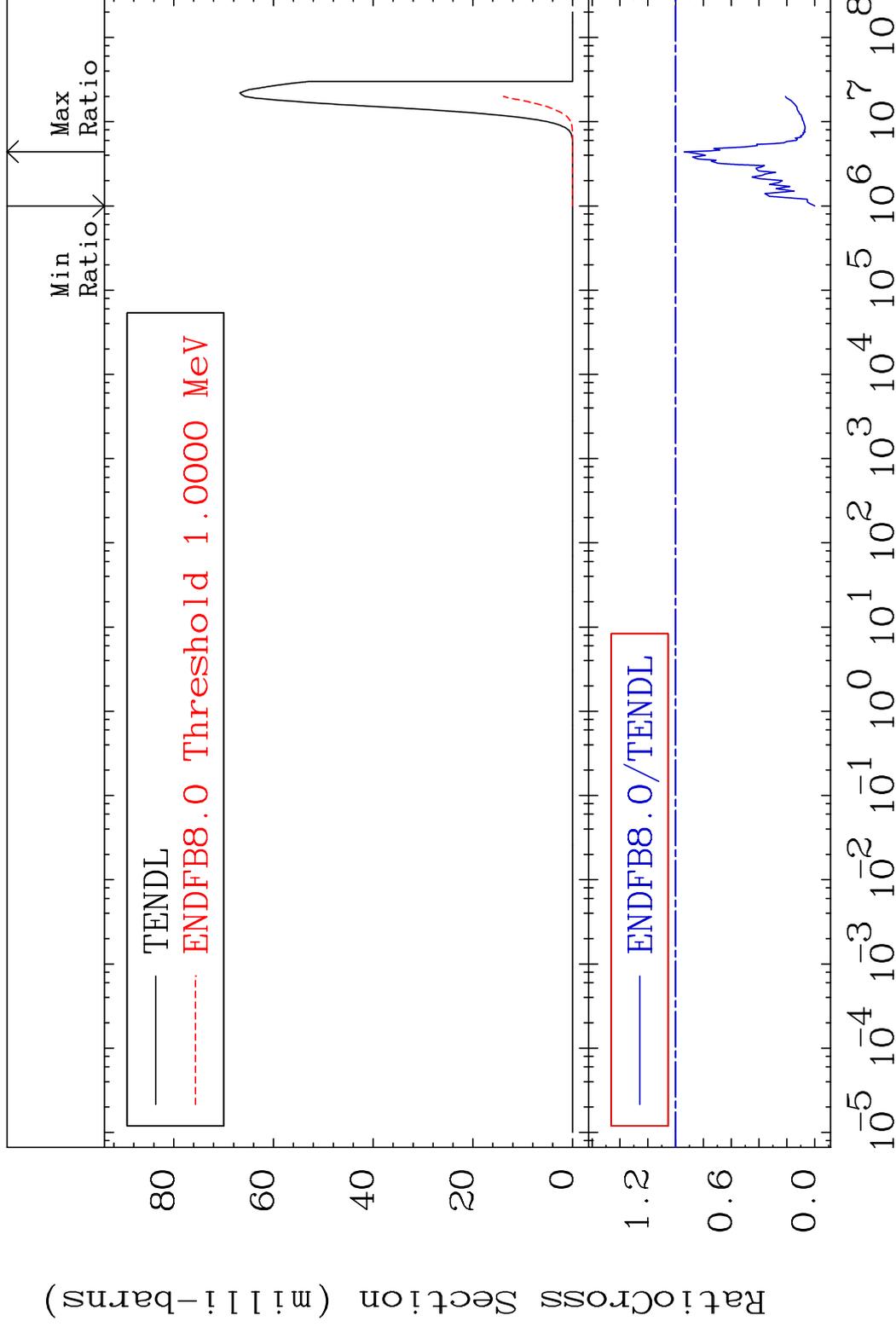
64-Gd-155

MAT 6434

(n, p)

64-Gd-155

Cross Section -100.0 To -6.140%



28

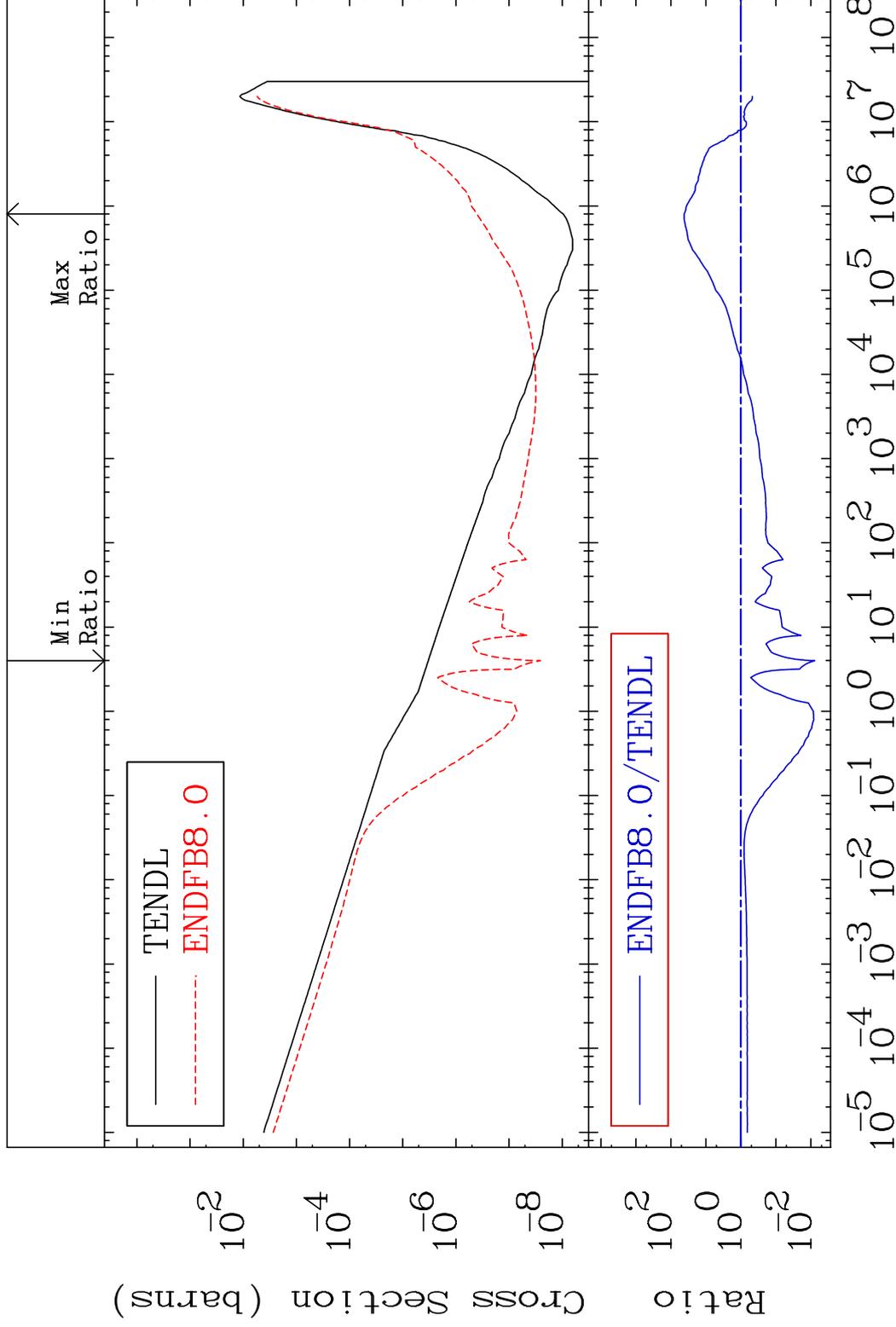
Incident Energy (eV)

64-Gd-155

MAT 6434

(n,  $\alpha$ )  
Cross Section -99.22 To 4104. %

64-Gd-155



29

Incident Energy (eV)

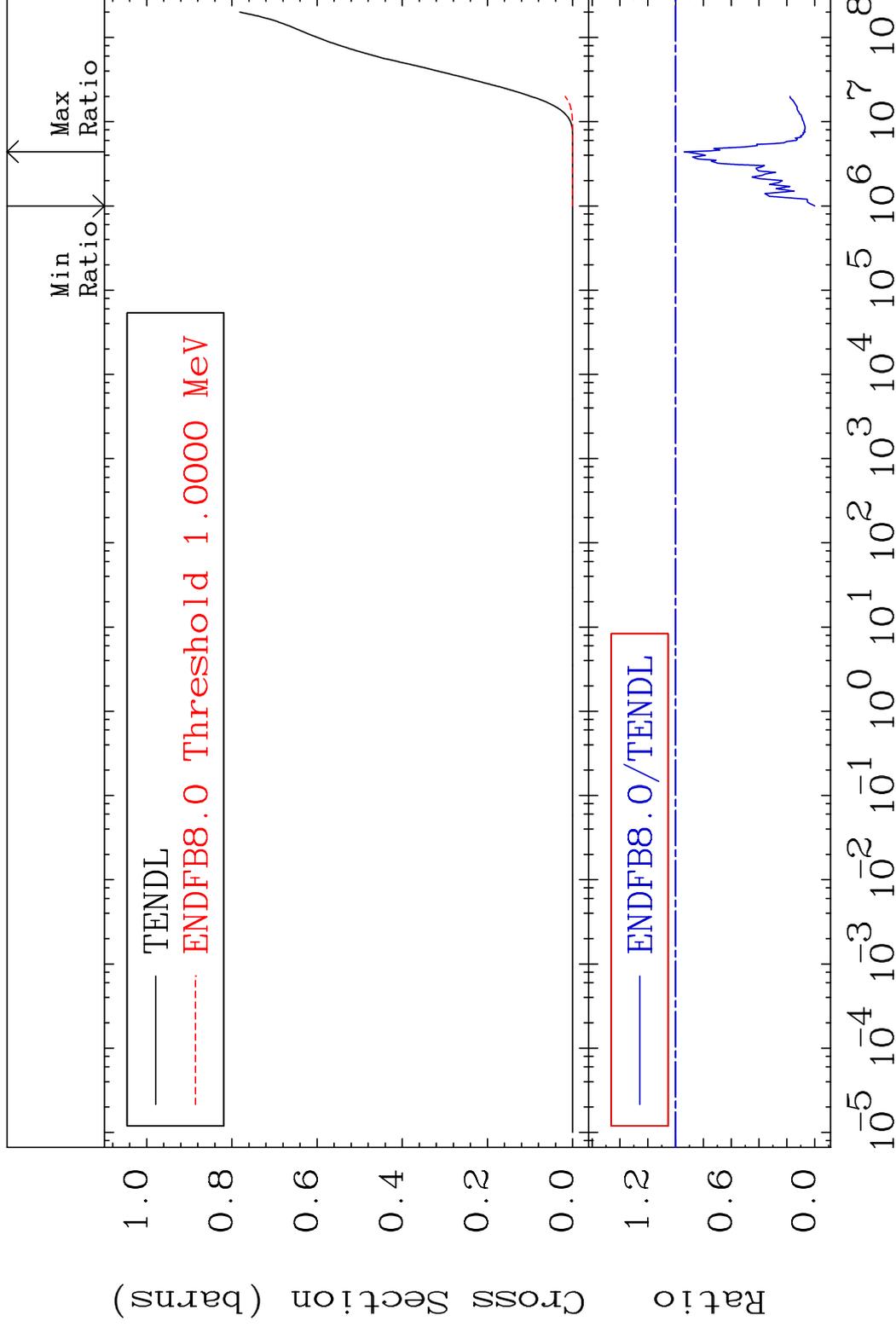
64-Gd-155

MAT 6434

Hydrogen Production

64-Gd-155

Cross Section -100.0 To -6.140%



30

Incident Energy (eV)

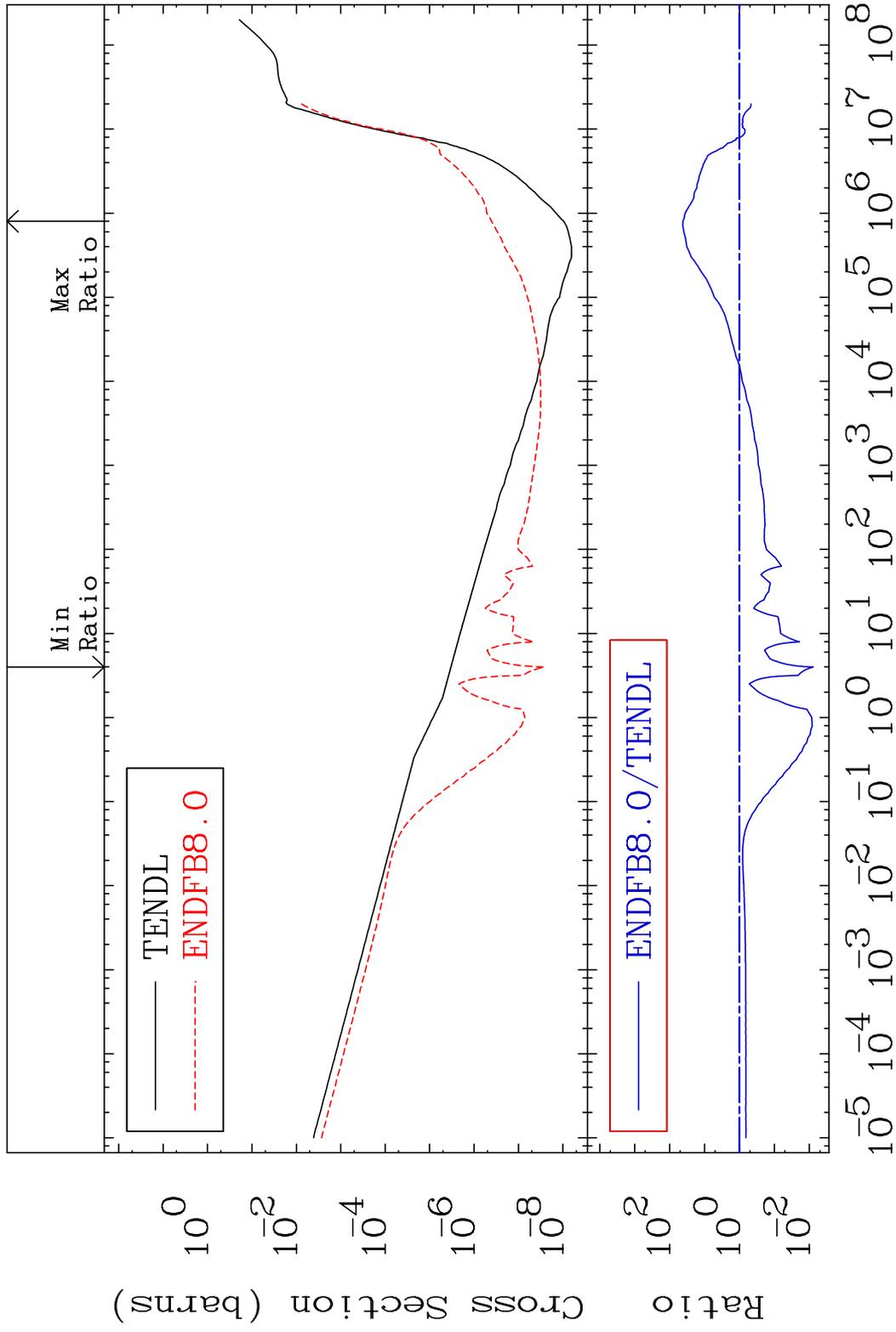
64-Gd-155

MAT 6434

He-4 Production

64-Gd-155

Cross Section -99.22 To 4104. %

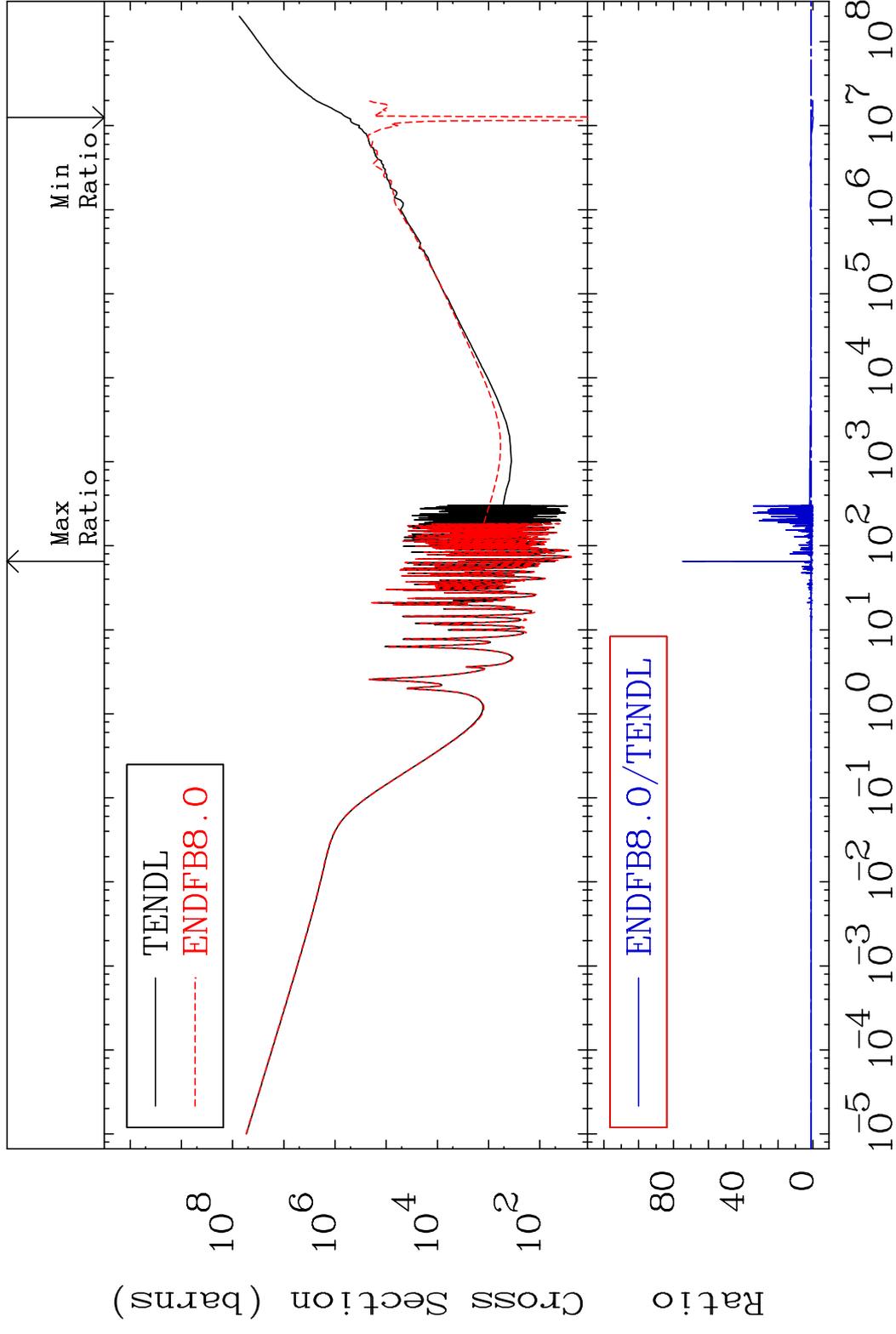


31

Incident Energy (eV)

64-Gd-155

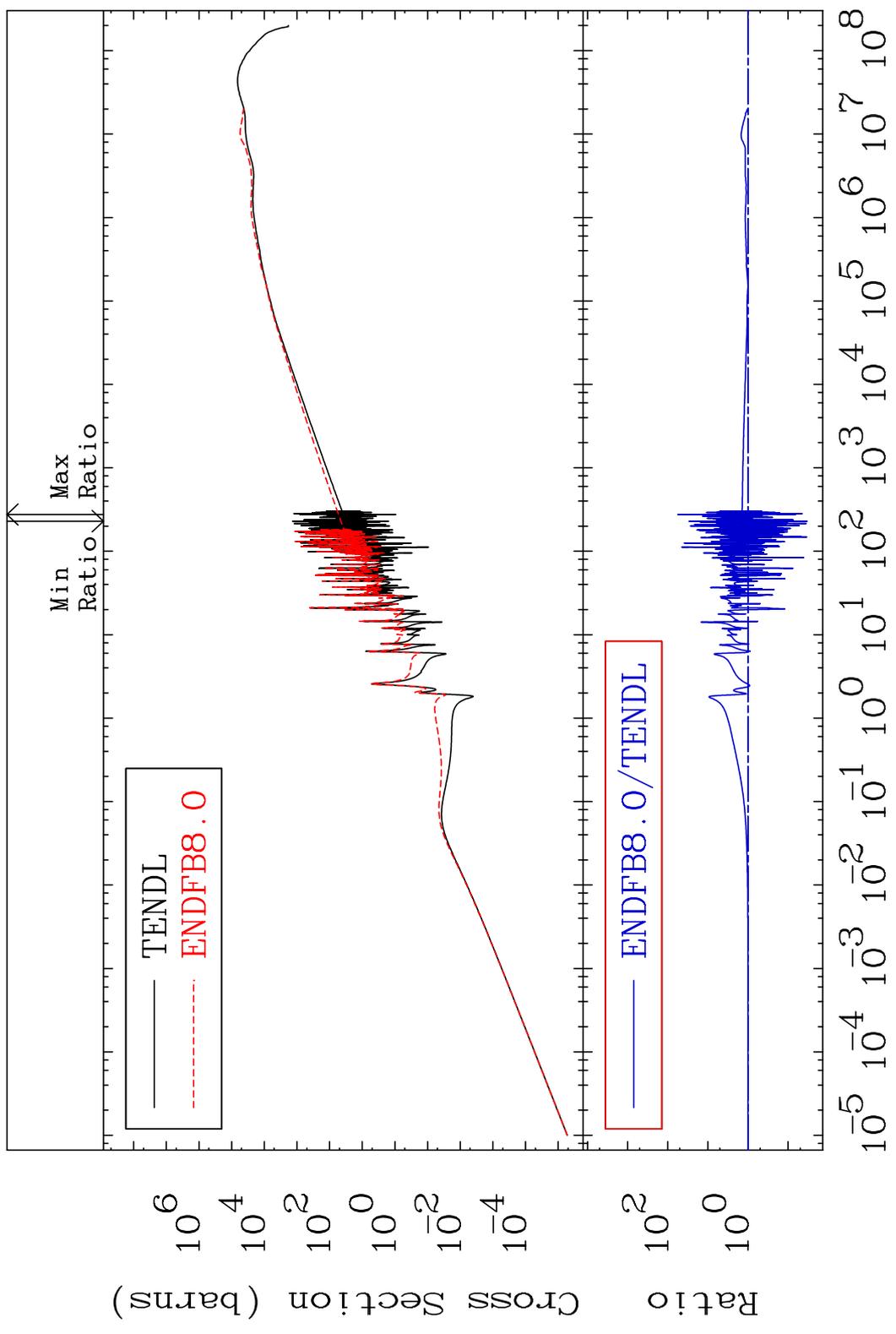
MAT 6434 Kerma total (eV-barns) 64-Gd-155  
 Cross Section -116.1 To 7365. %



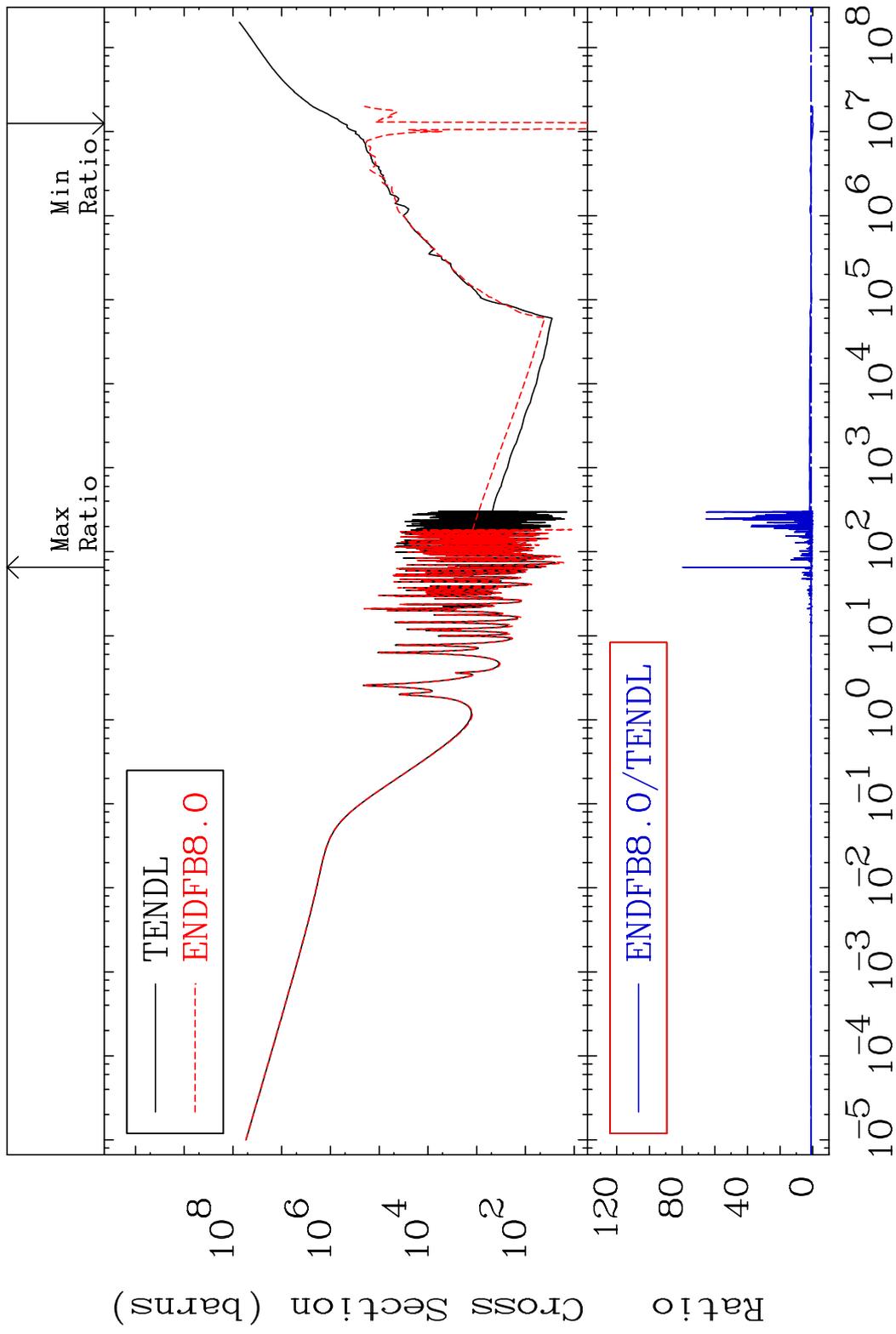
MAT 6434

Kerma elastic Cross Section -96.62 To 5550. %

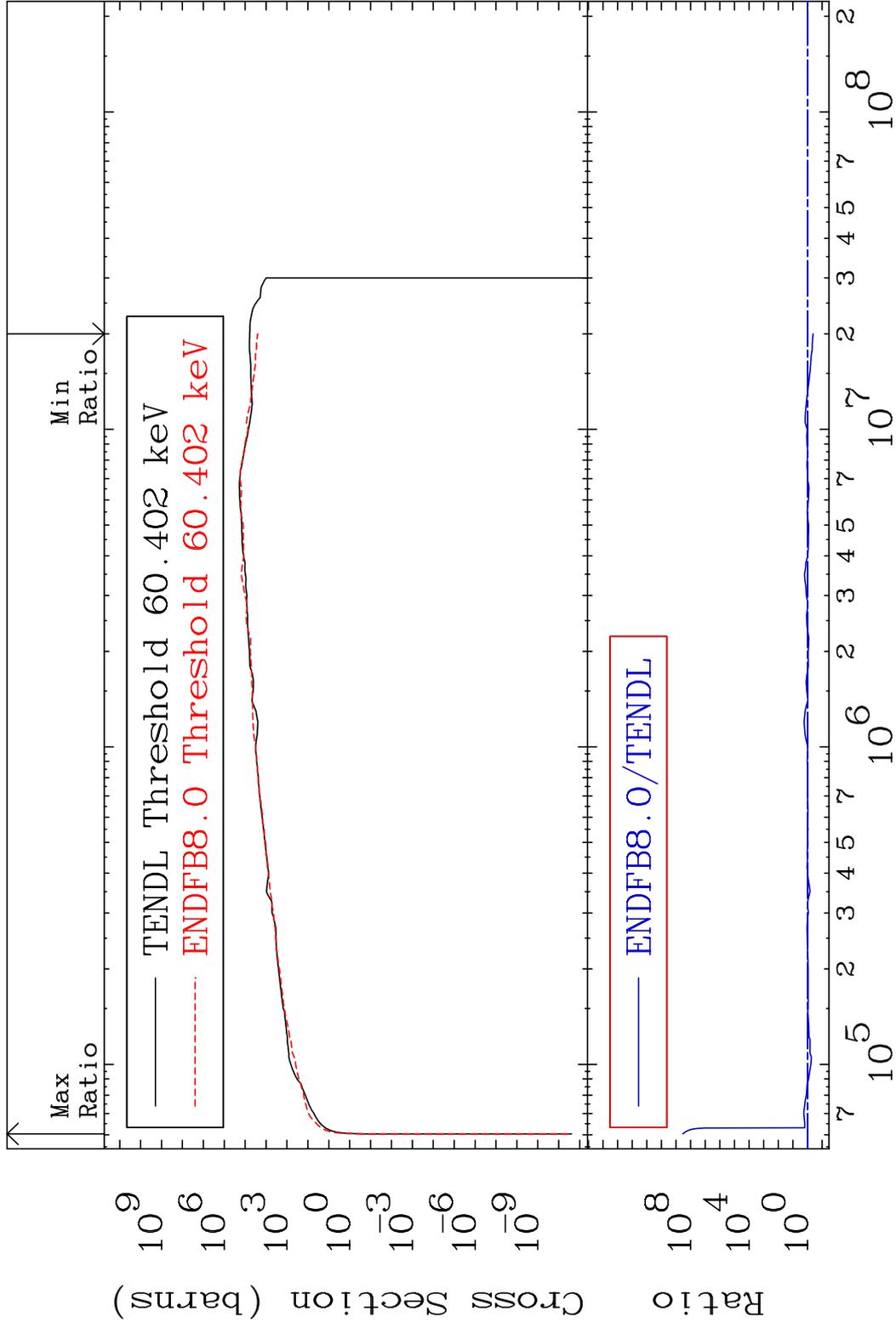
64-Gd-155



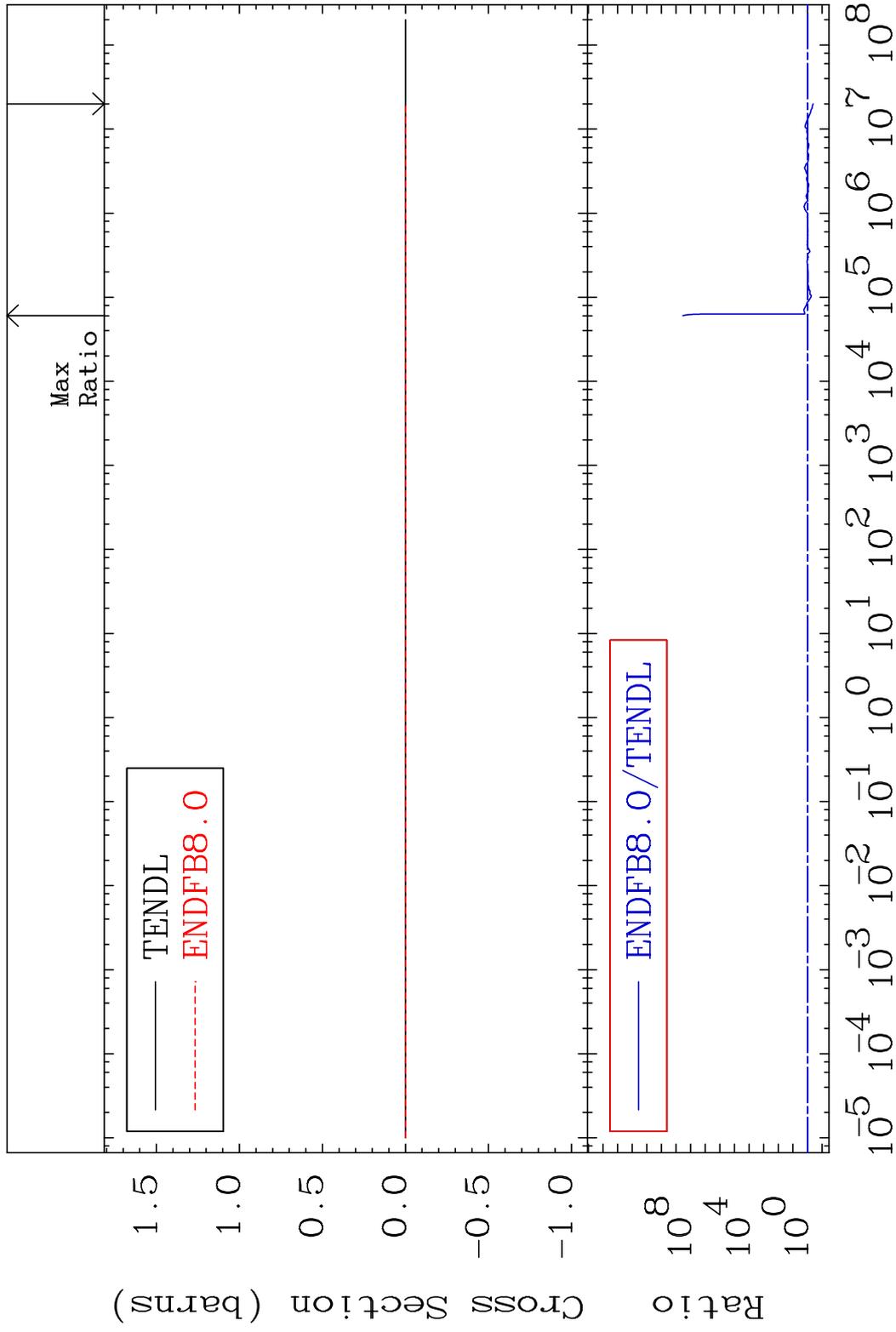
MAT 6434 Kerma non-elastic (all but mt2) 64-Gd-155  
 Cross Section -126.9 To 7854. %



MAT 6434 Kerma inelastic (mt51-91) 64-Gd-155  
 Cross Section -59.00 To 9999. %

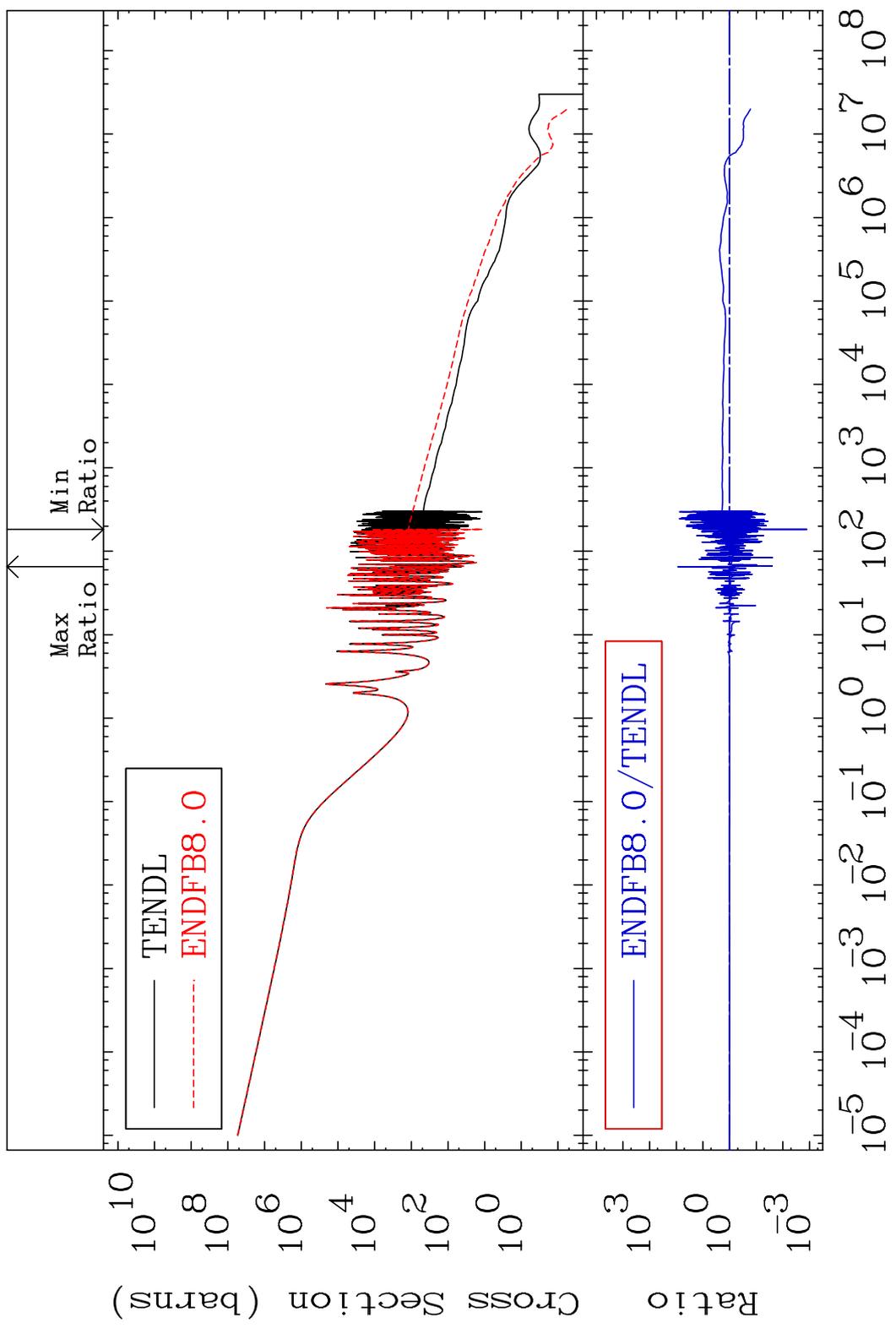


MAT 6434 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-155  
 Cross Section -59.00 To 9999. %

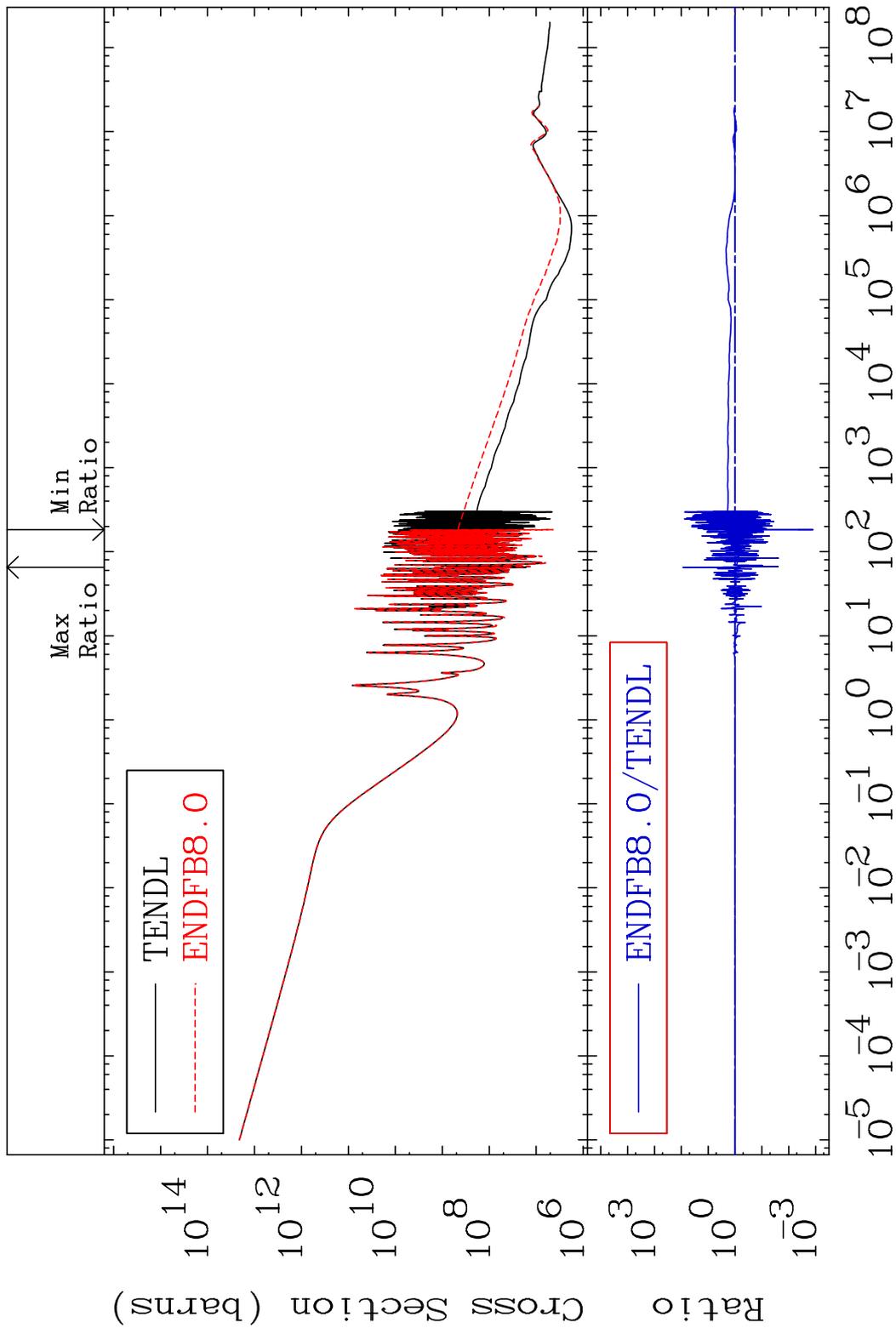


MAT 6434

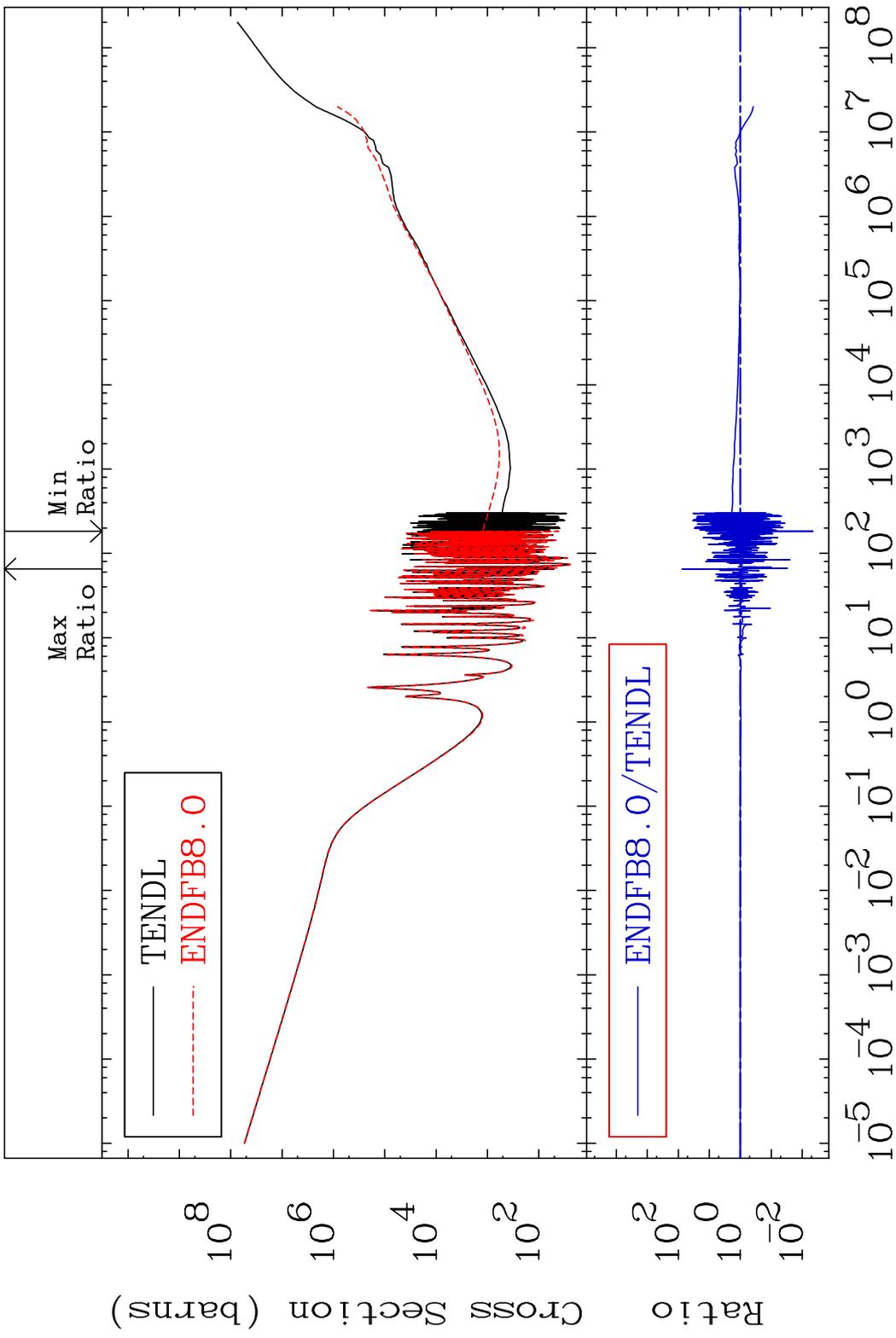
Kerma capture (mt102) 64-Gd-155  
Cross Section -99.88 To 8775. %



MAT 6434 Total photon (eV-barns) 64-Gd-155  
 Cross Section -99.88 To 8695. %



MAT 6434 Total kinematic kerma (high limit) 64-Gd-155  
 Cross Section -99.55 To 7361. %

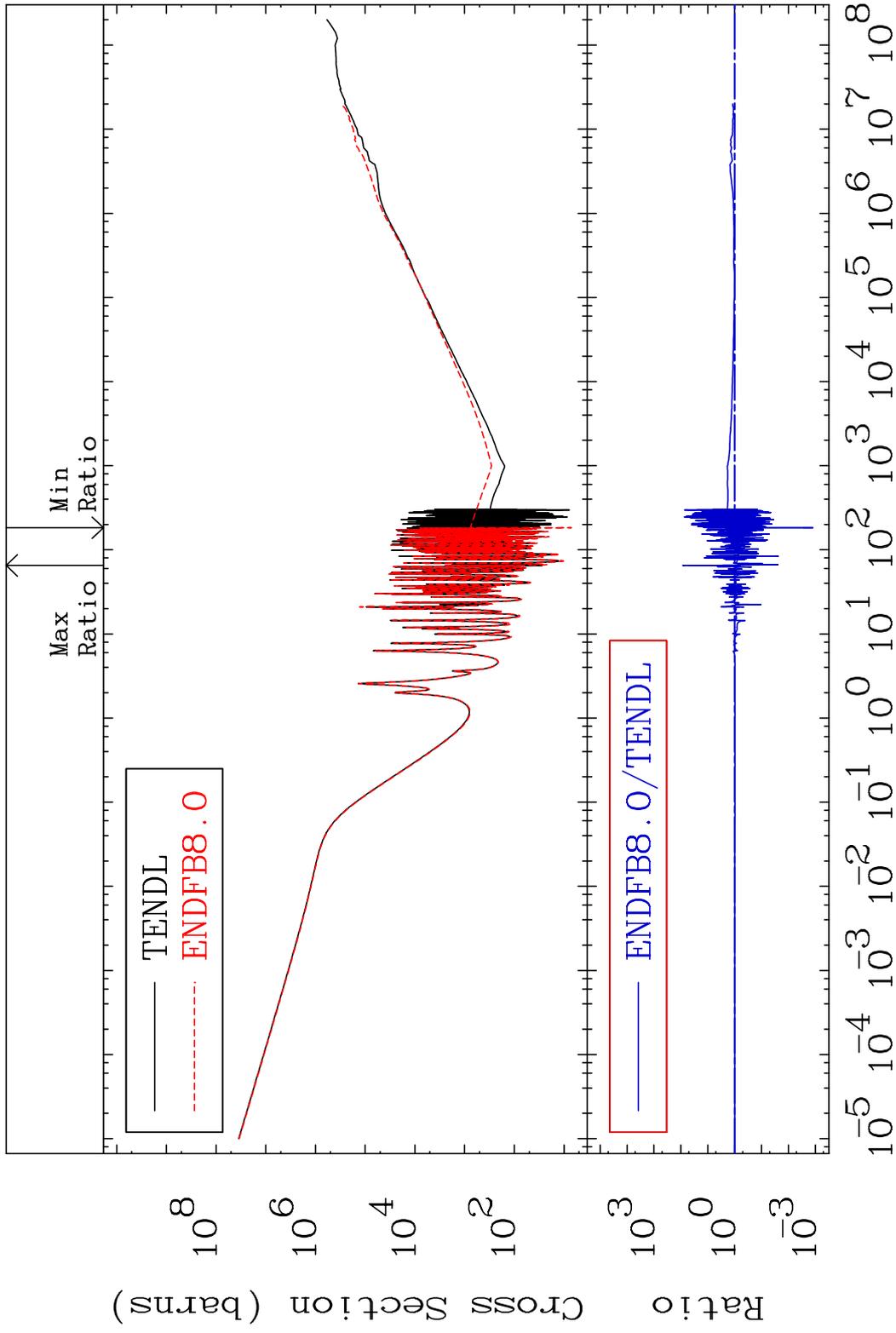


MAT 6434

Dpa total (eV-barns)

64-Gd-155

Cross Section -99.88 To 8484. %



40

Incident Energy (eV)

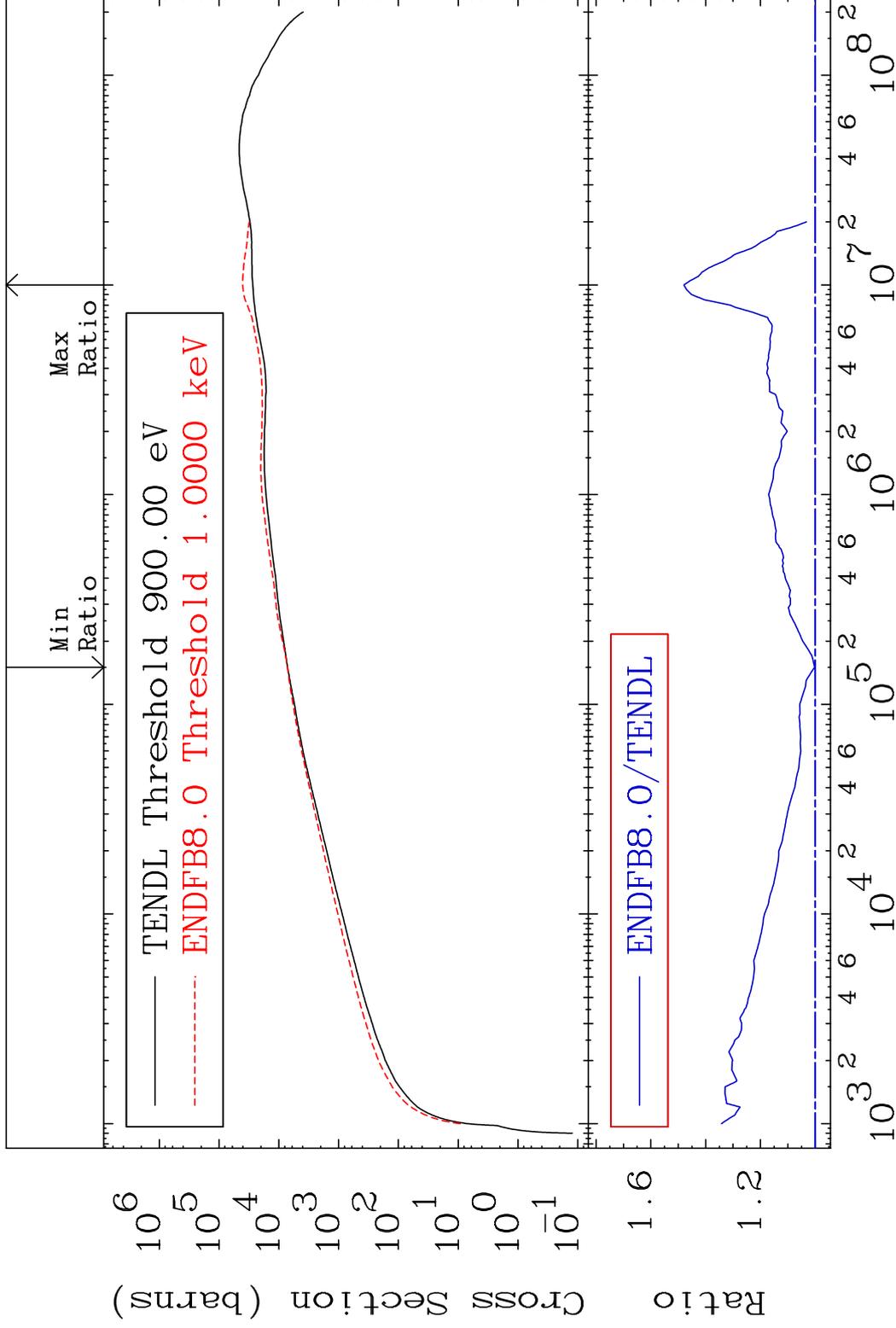
64-Gd-155

MAT 6434

Dpa elastic (mt2)

64-Gd-155

Cross Section 0.231 To 47.92 %

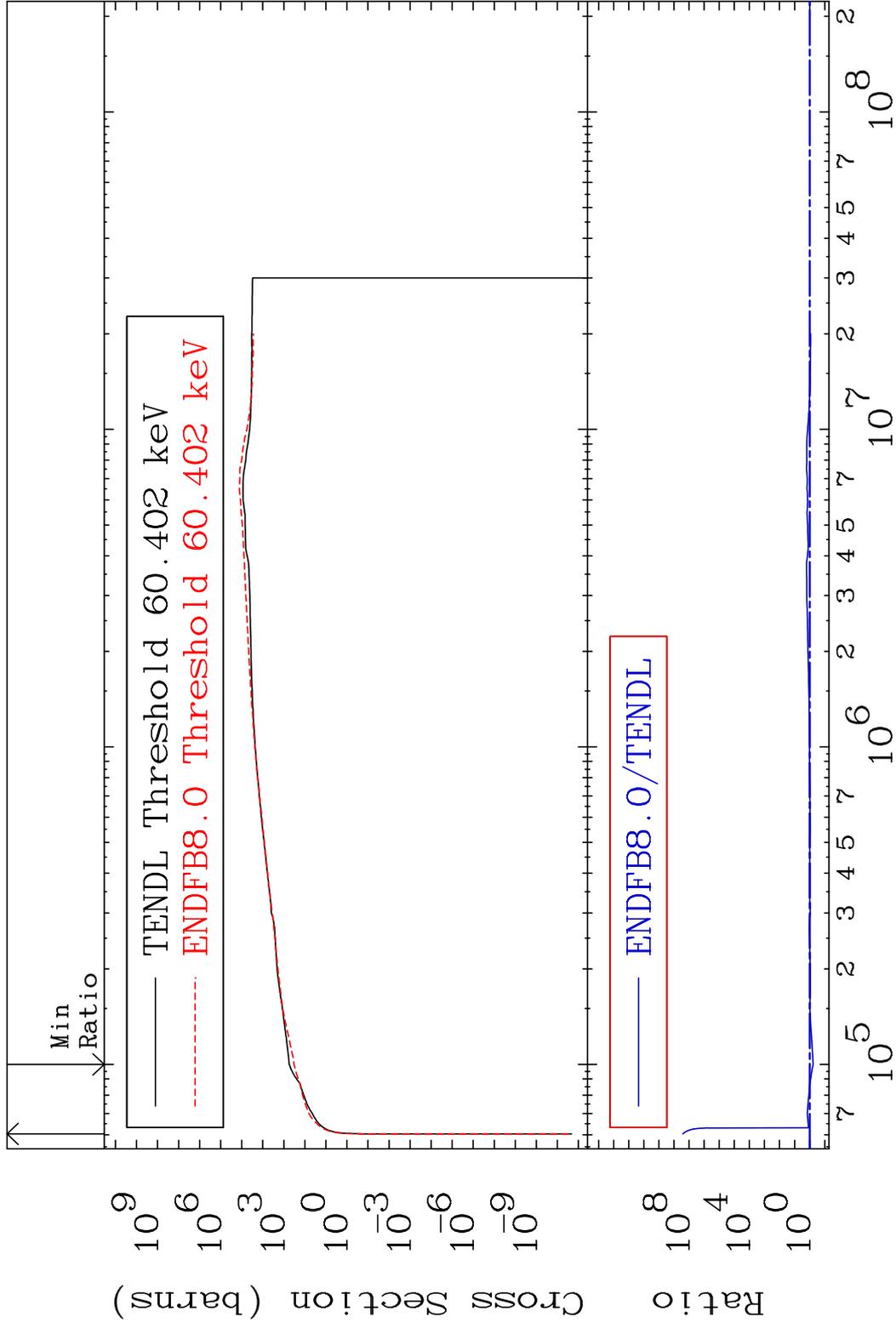


41

Incident Energy (eV)

64-Gd-155

MAT 6434 Dpa inelastic (mt51-91) 64-Gd-155  
 Cross Section -41.17 To 9999. %



MAT 6434 Dpa disappearance (mt102 -120) 64-Gd-155  
 Cross Section -99.88 To 8484. %

