

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

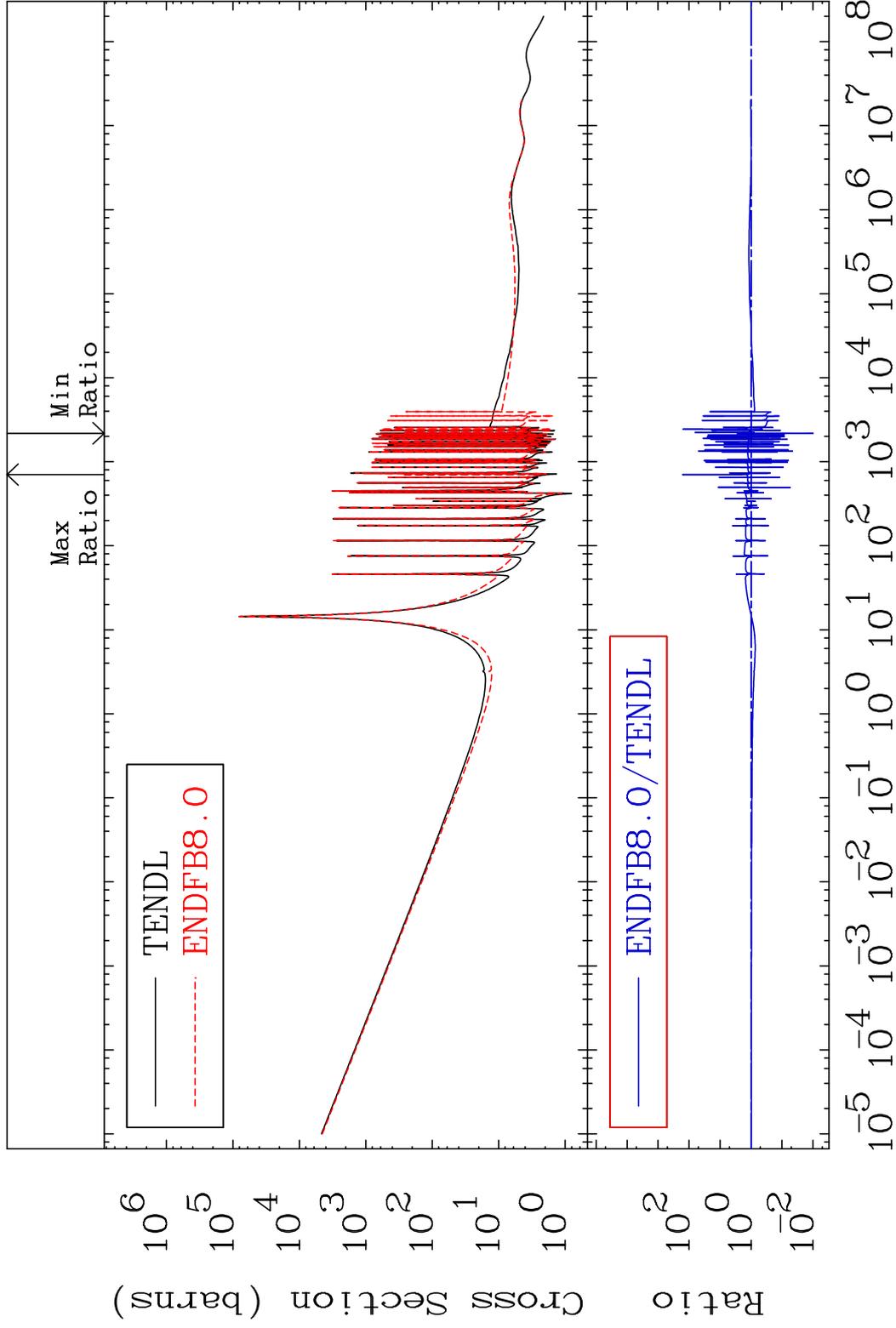
Press Mouse Button to Start

MAT 5446

Total

54-Xe-131

Cross Section -99.01 To 9999. %



1

Incident Energy (eV)

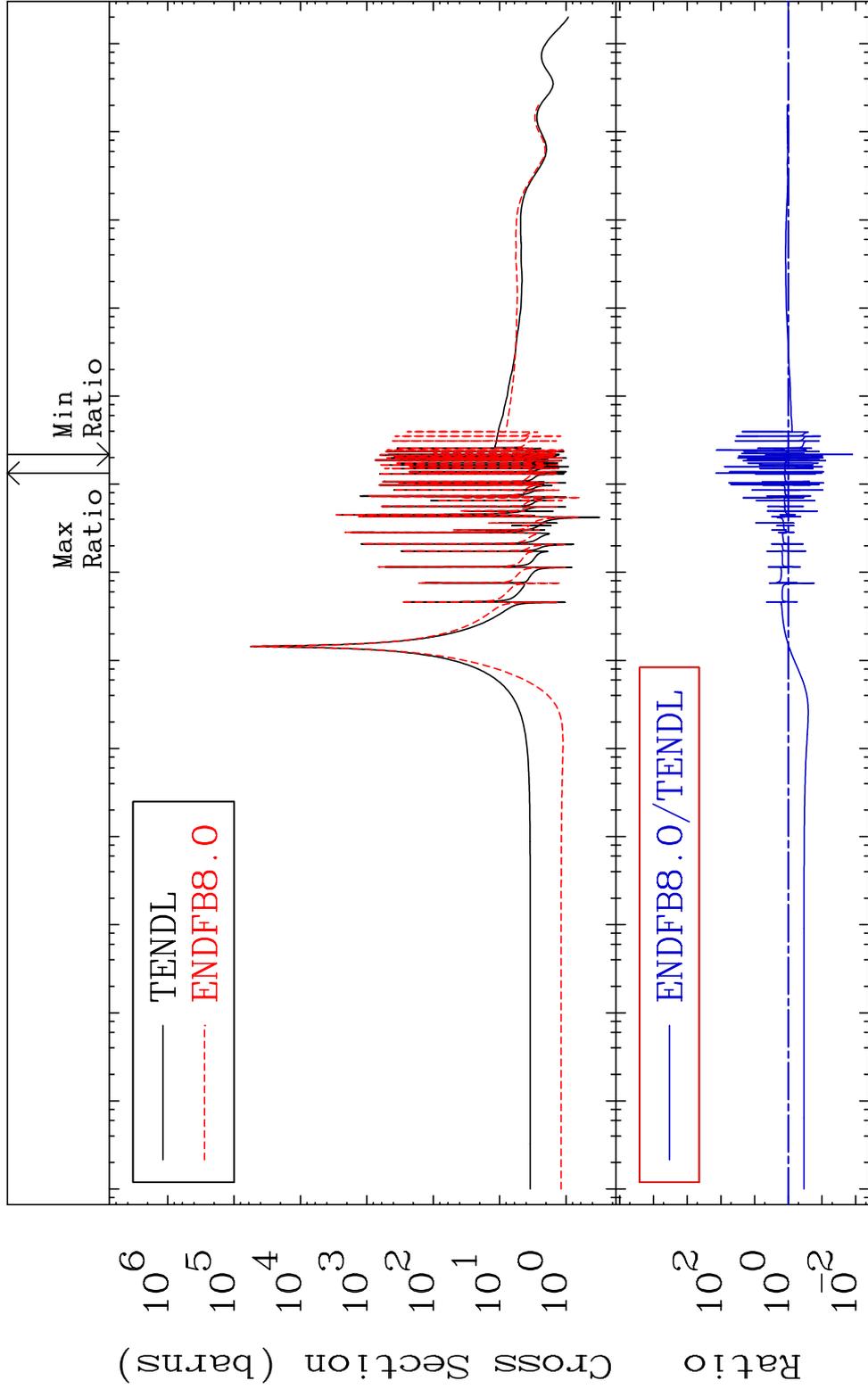
54-Xe-131

MAT 5446

Elastic

54-Xe-131

Cross Section -98.75 To 9999. %

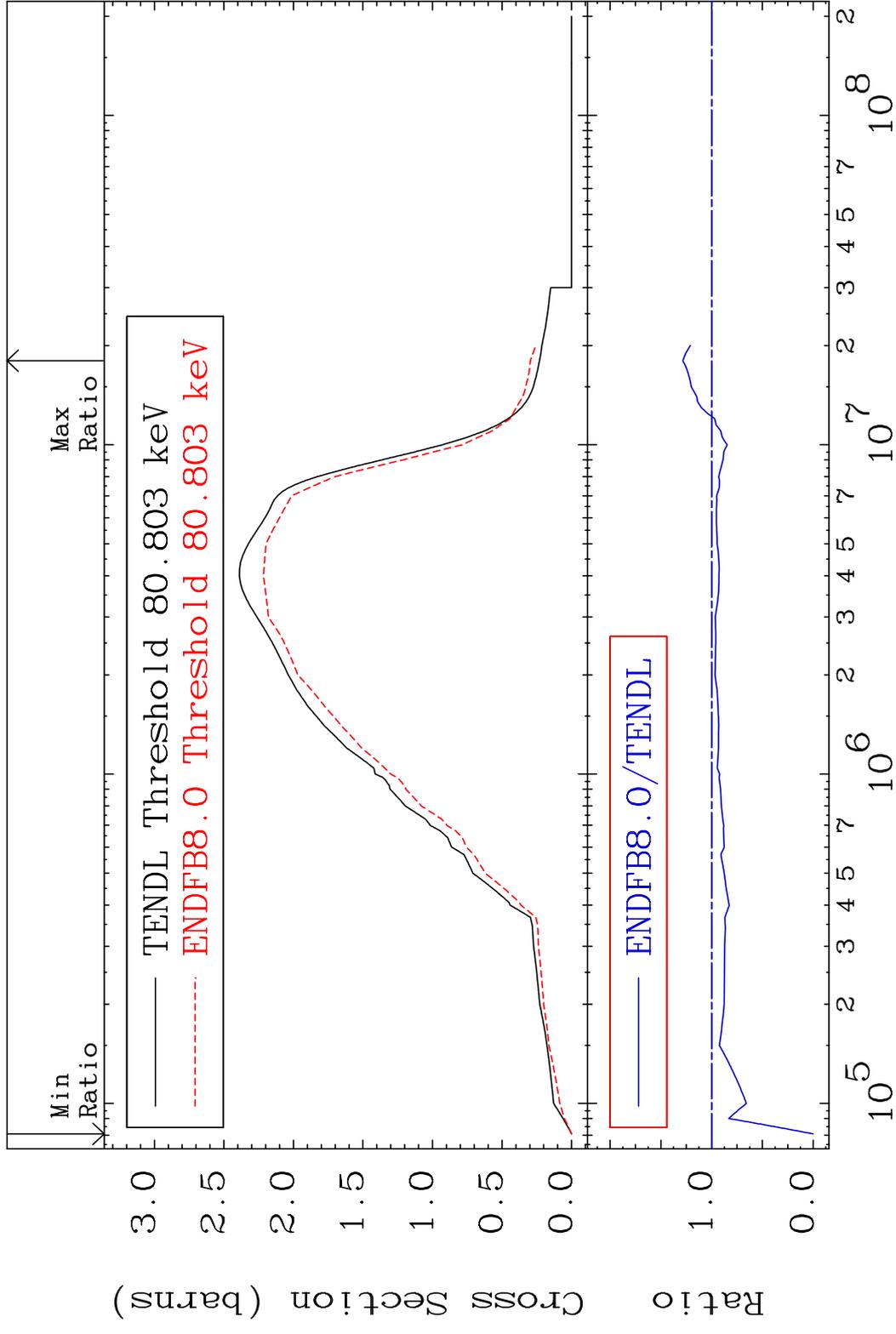


Incident Energy (eV)

2

54-Xe-131

MAT 5446 Inelastic 54-Xe-131  
 Cross Section -100.0 To 28.34 %

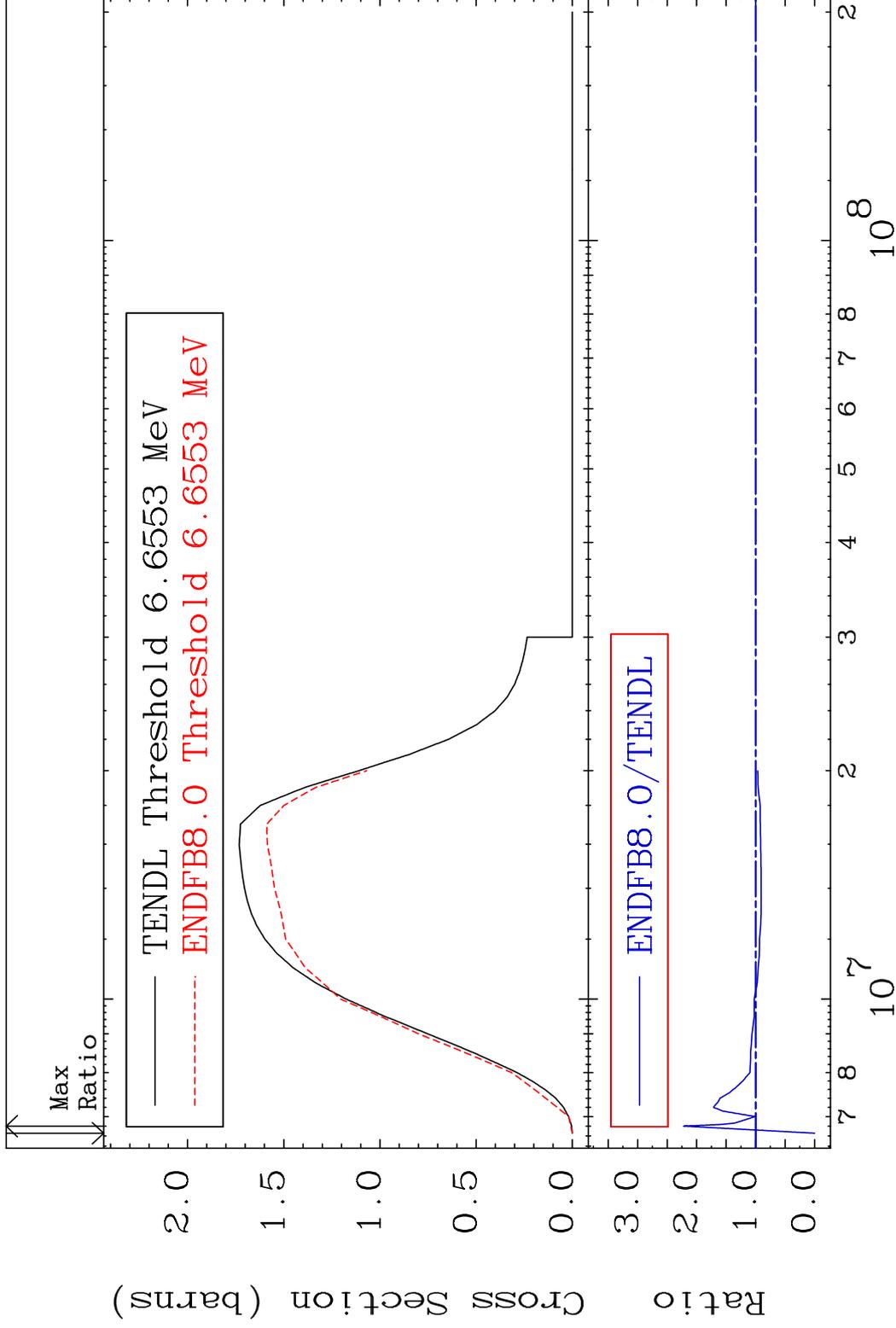


MAT 5446

(n,2n)

54-Xe-131

Cross Section -100.0 To 121.5 %



4

Incident Energy (eV)

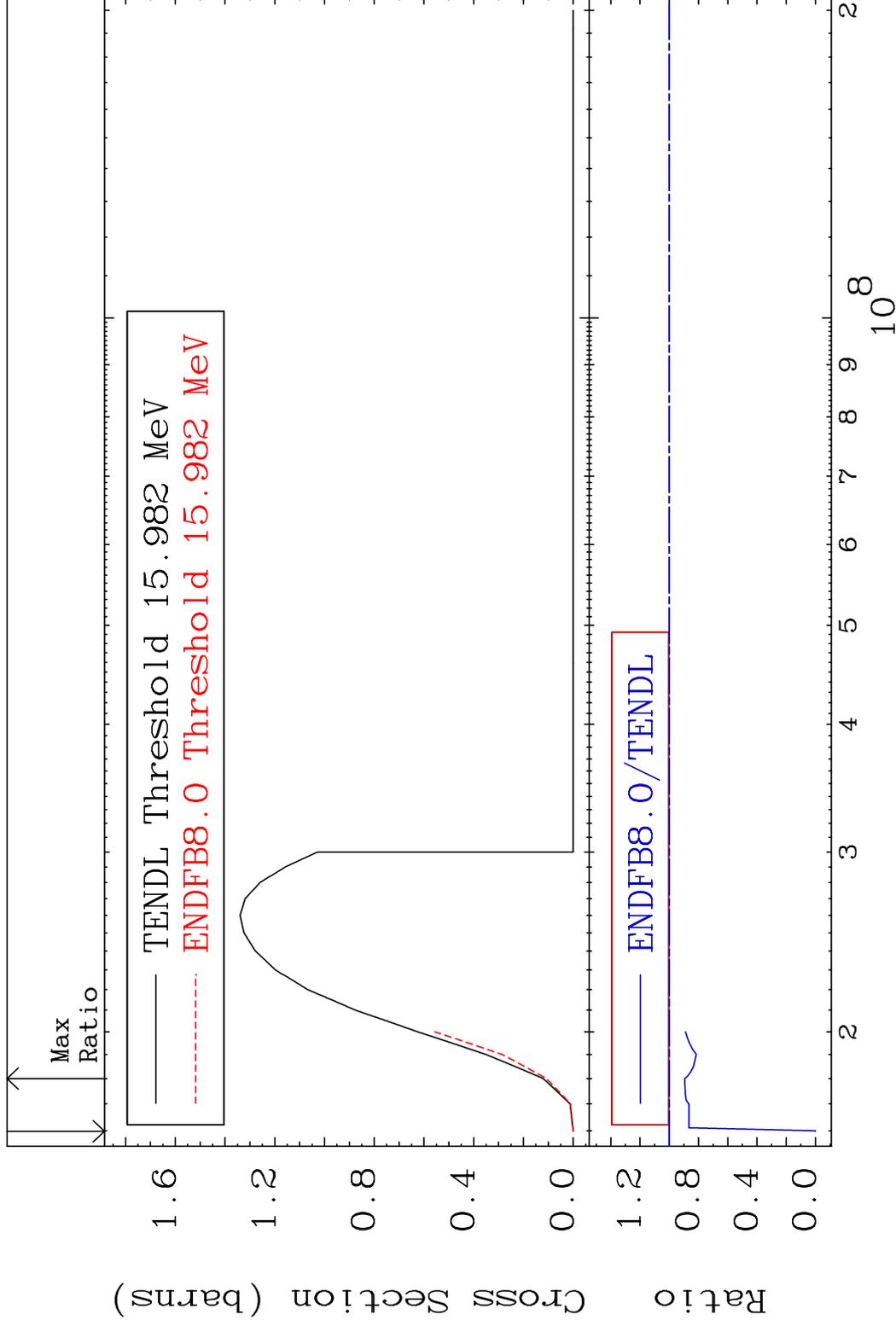
54-Xe-131

MAT 5446

(n,3n)

54-Xe-131

Cross Section -100.0 To -10.62%



5

Incident Energy (eV)

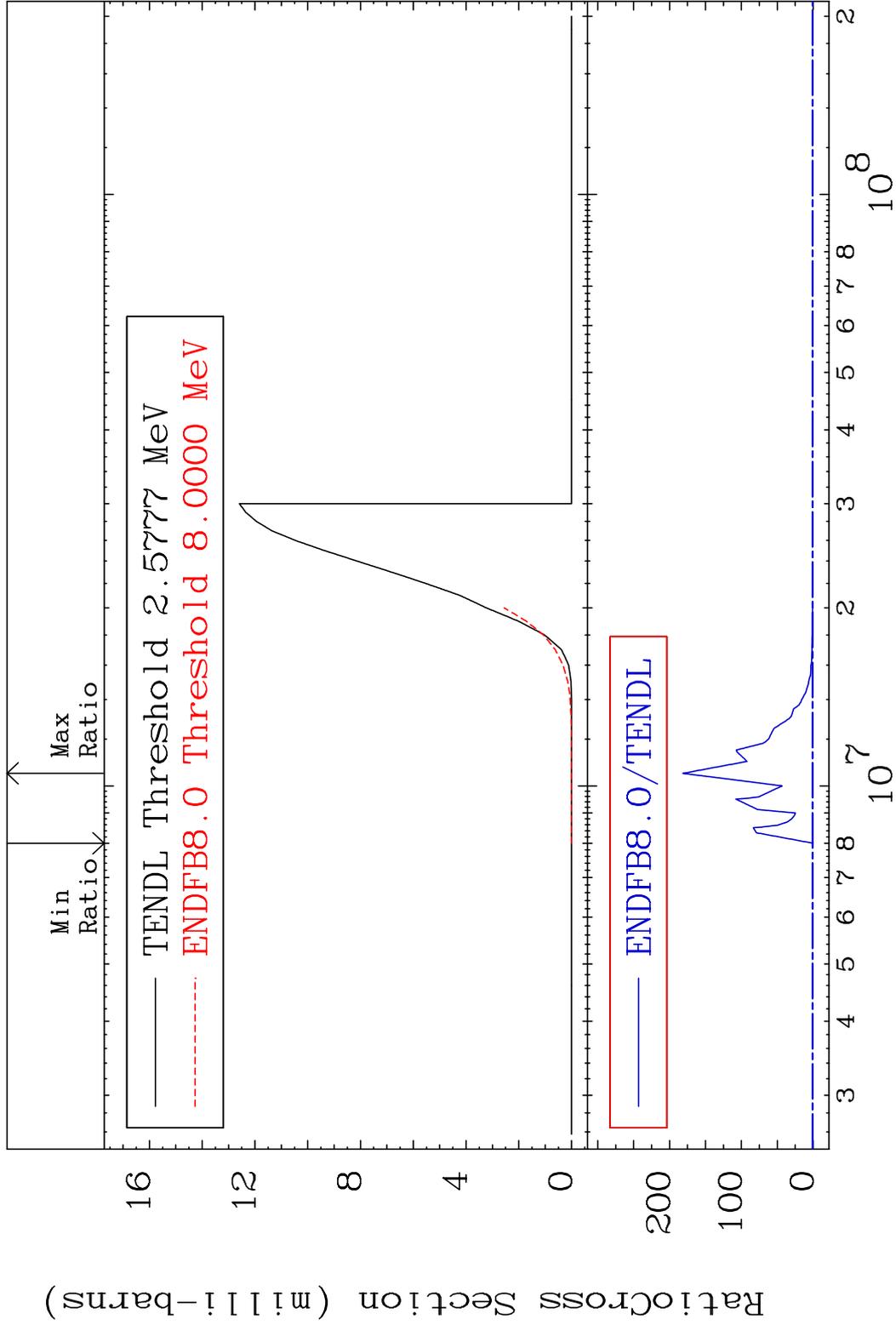
54-Xe-131

MAT 5446

(n, n')  $\alpha$

54-Xe-131

Cross Section -100.0 To 9999. %



6

Incident Energy (eV)

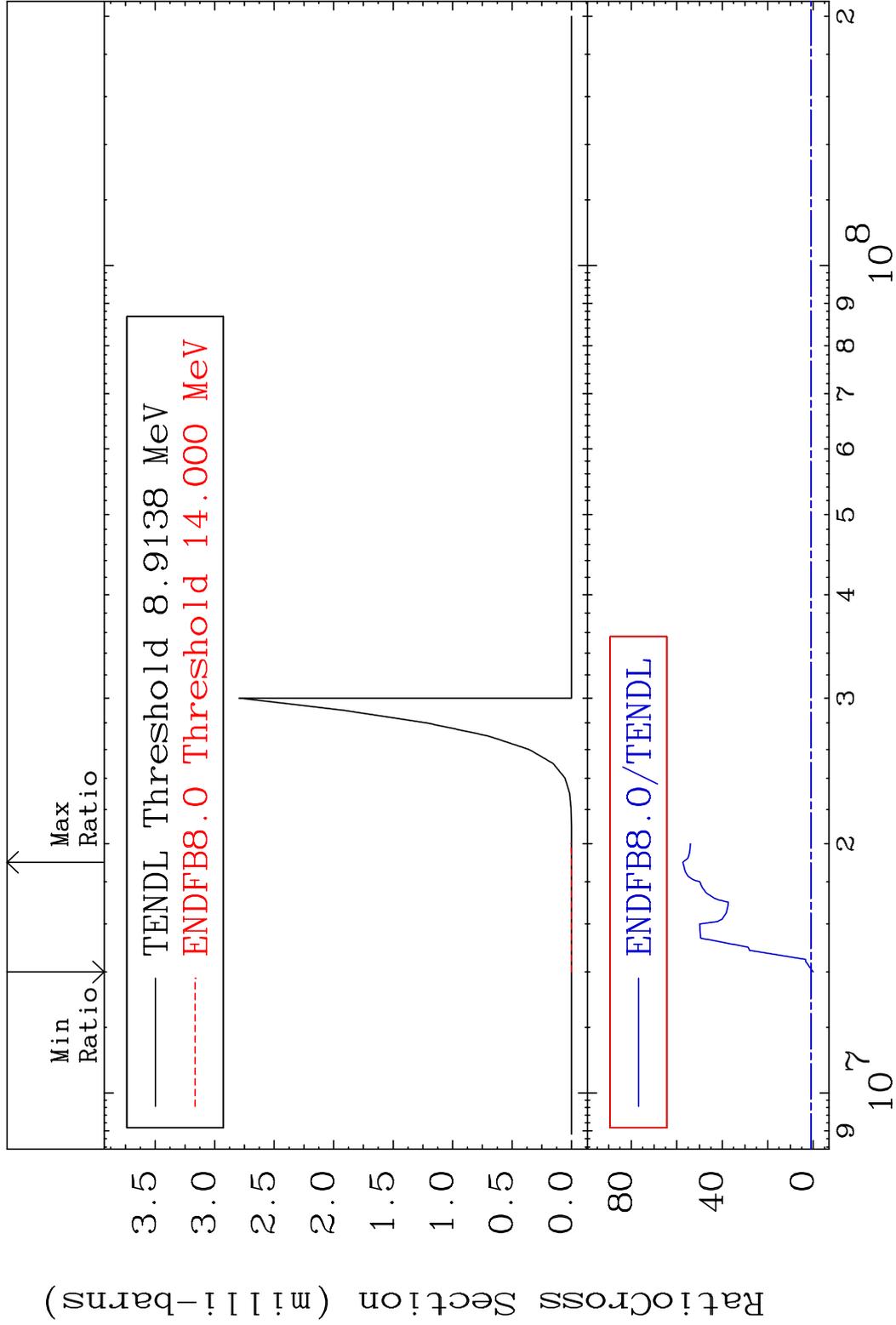
54-Xe-131

MAT 5446

(n,2n)  $\alpha$

54-Xe-131

Cross Section -100.0 To 5634. %



7

Incident Energy (eV)

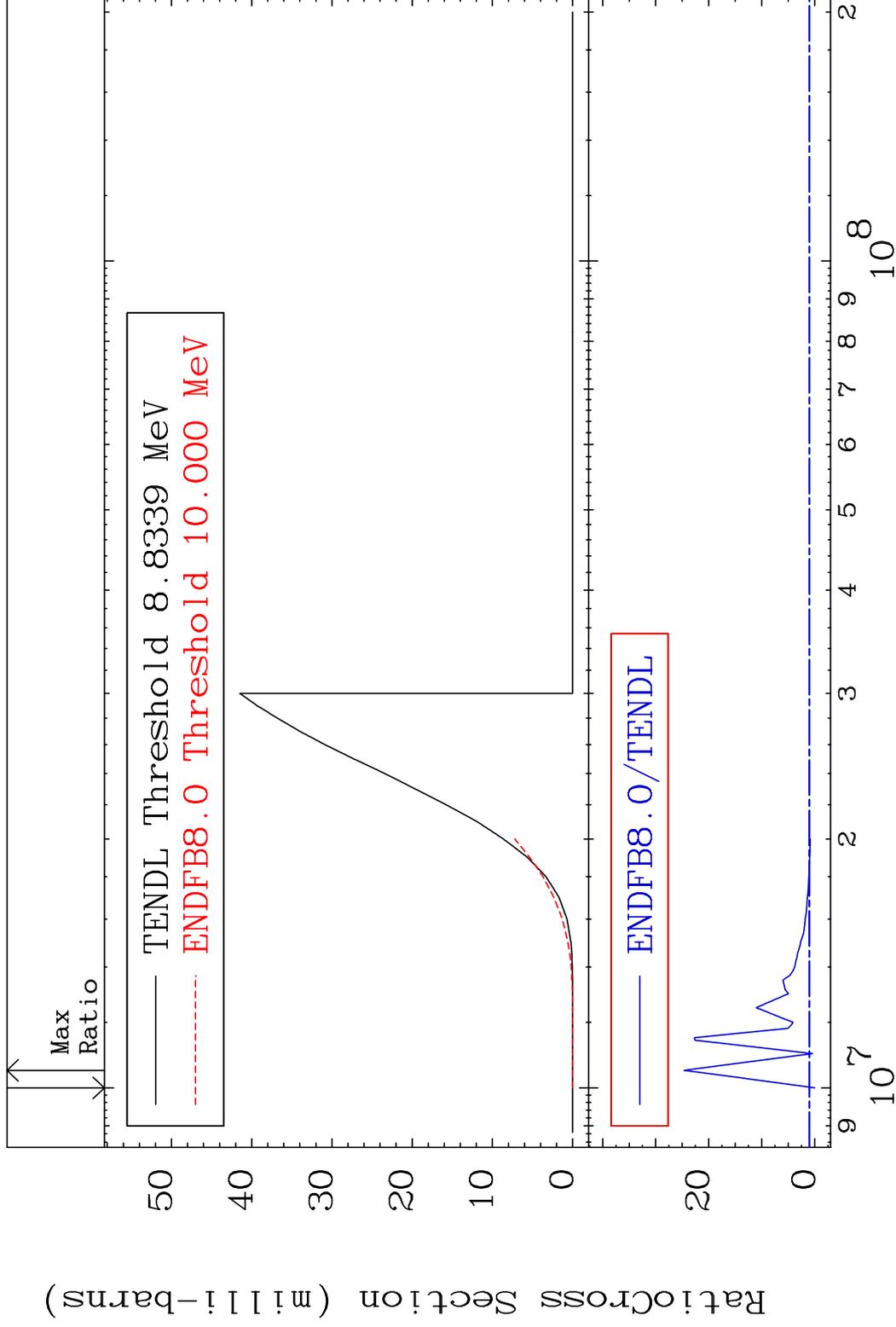
54-Xe-131

MAT 5446

(n, n') p

54-Xe-131

Cross Section -100.0 To 2363. %

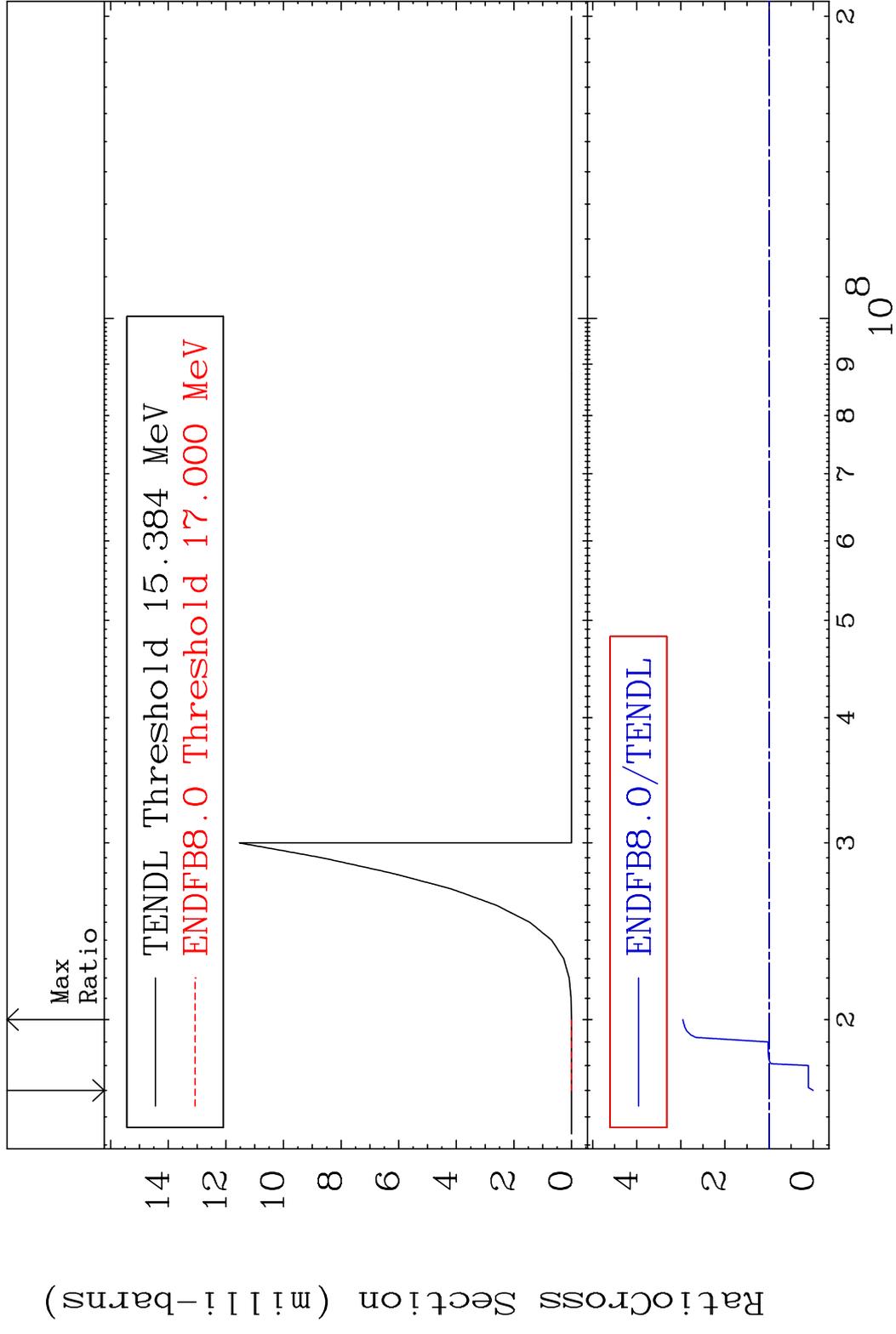


8

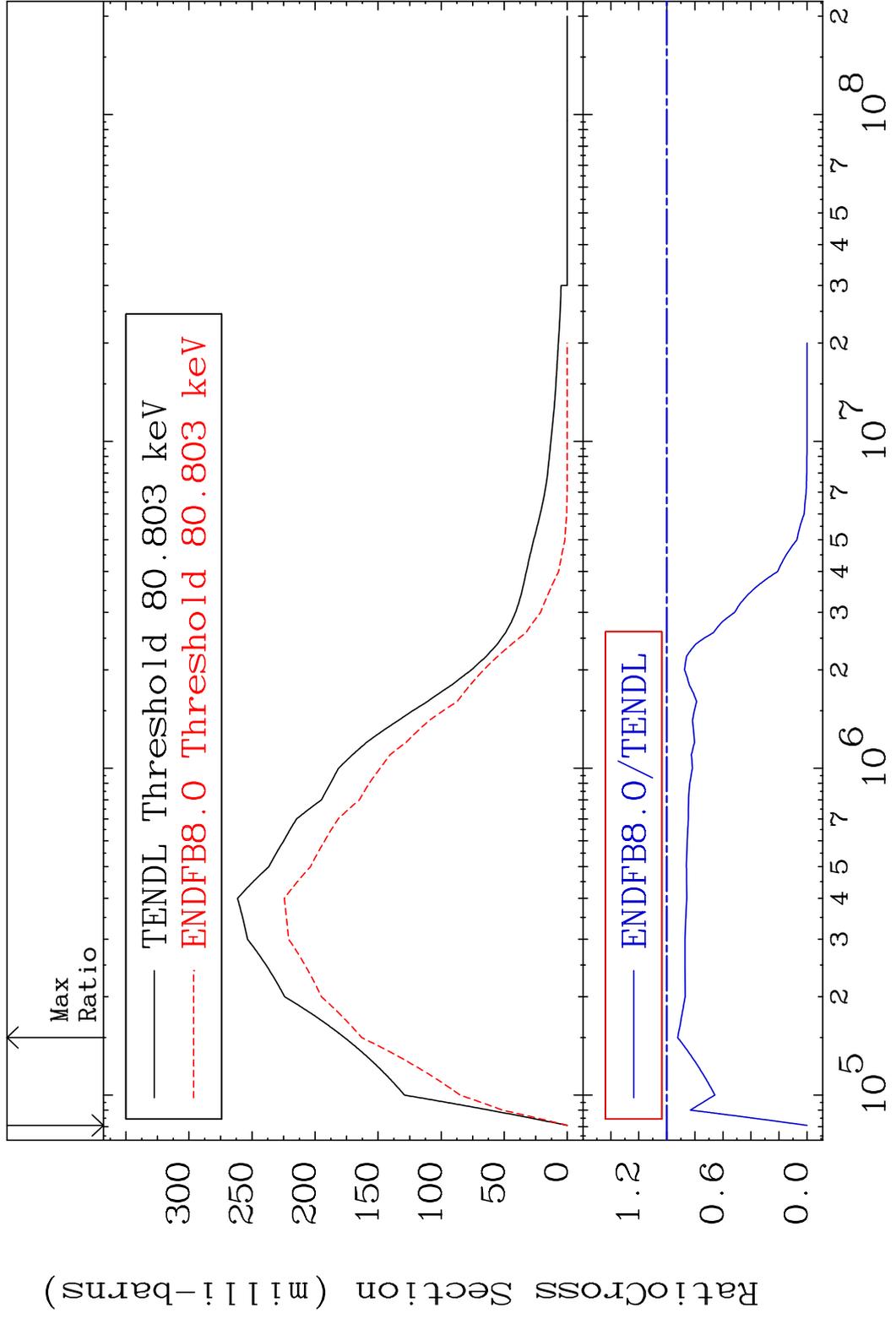
Incident Energy (eV)

54-Xe-131

MAT 5446 (n,2n) p 54-Xe-131  
 Cross Section -100.0 To 195.5 %

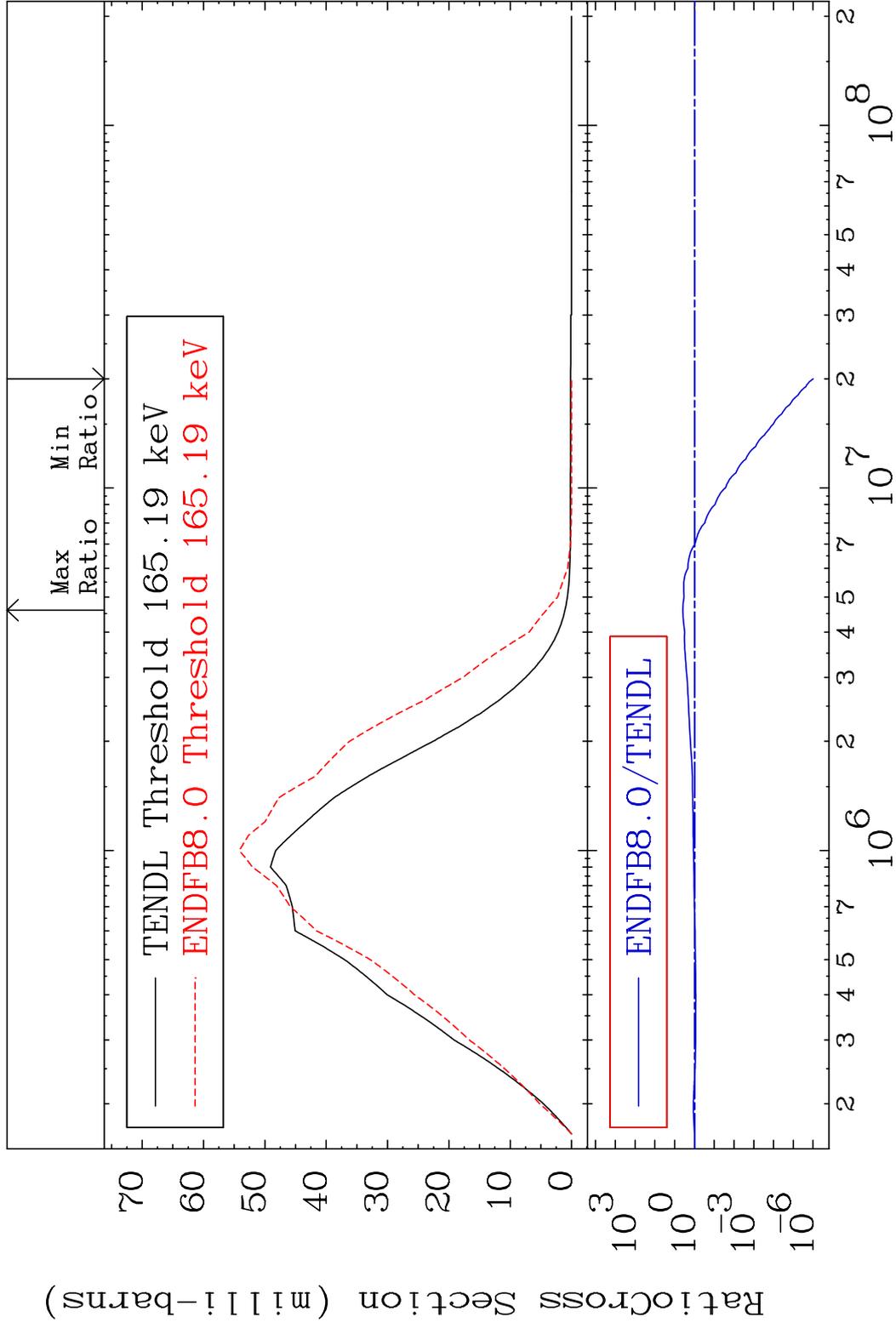


MAT 5446 MT= 51 (n, n') Level 54-Xe-131  
 Cross Section -100.0 To -7.701%

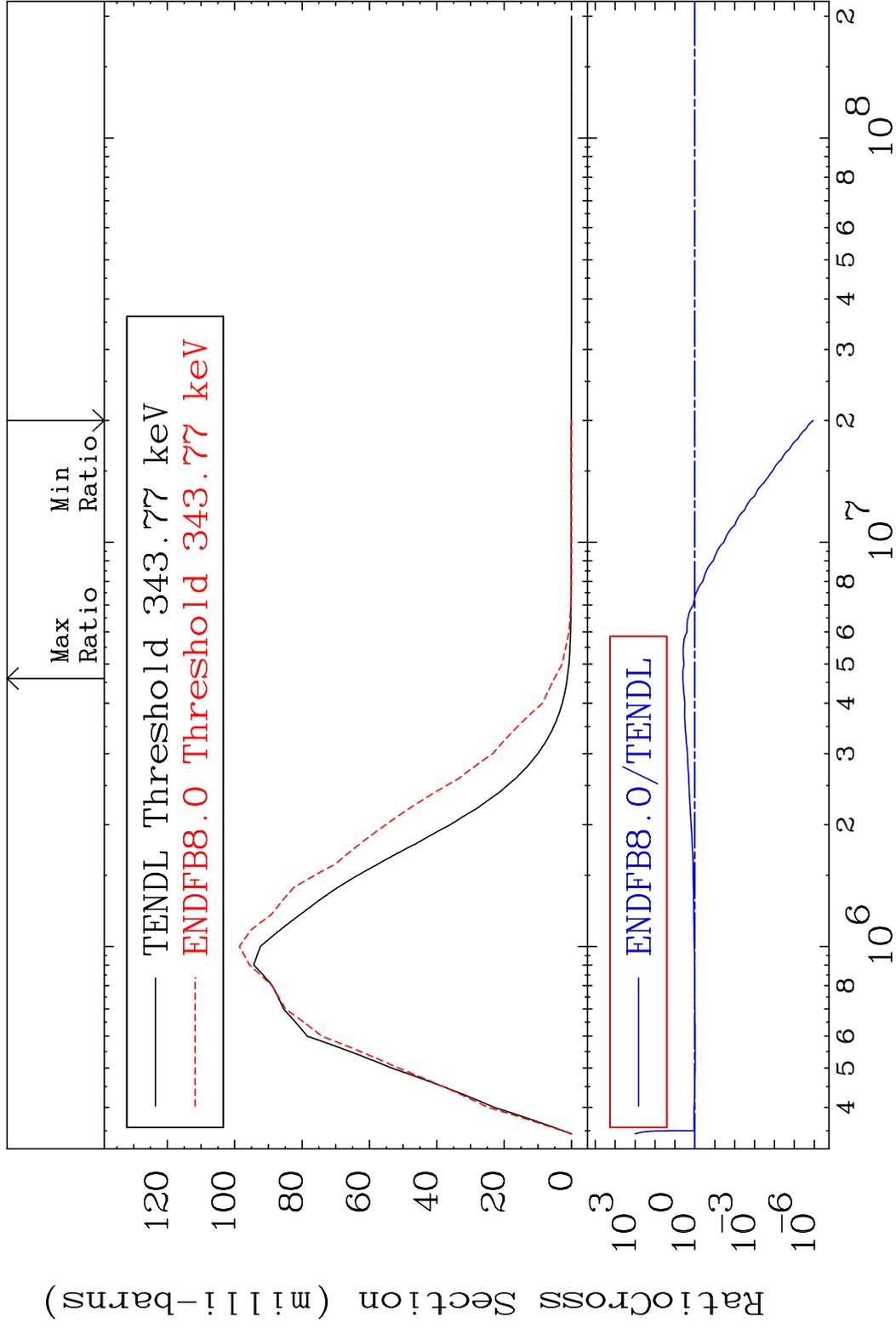


10 2 3 4 5 7 10<sup>5</sup> 2 3 4 5 7 10<sup>6</sup> 2 3 4 5 7 10<sup>7</sup> 2 3 4 5 7 10<sup>8</sup> 2 54-Xe-131

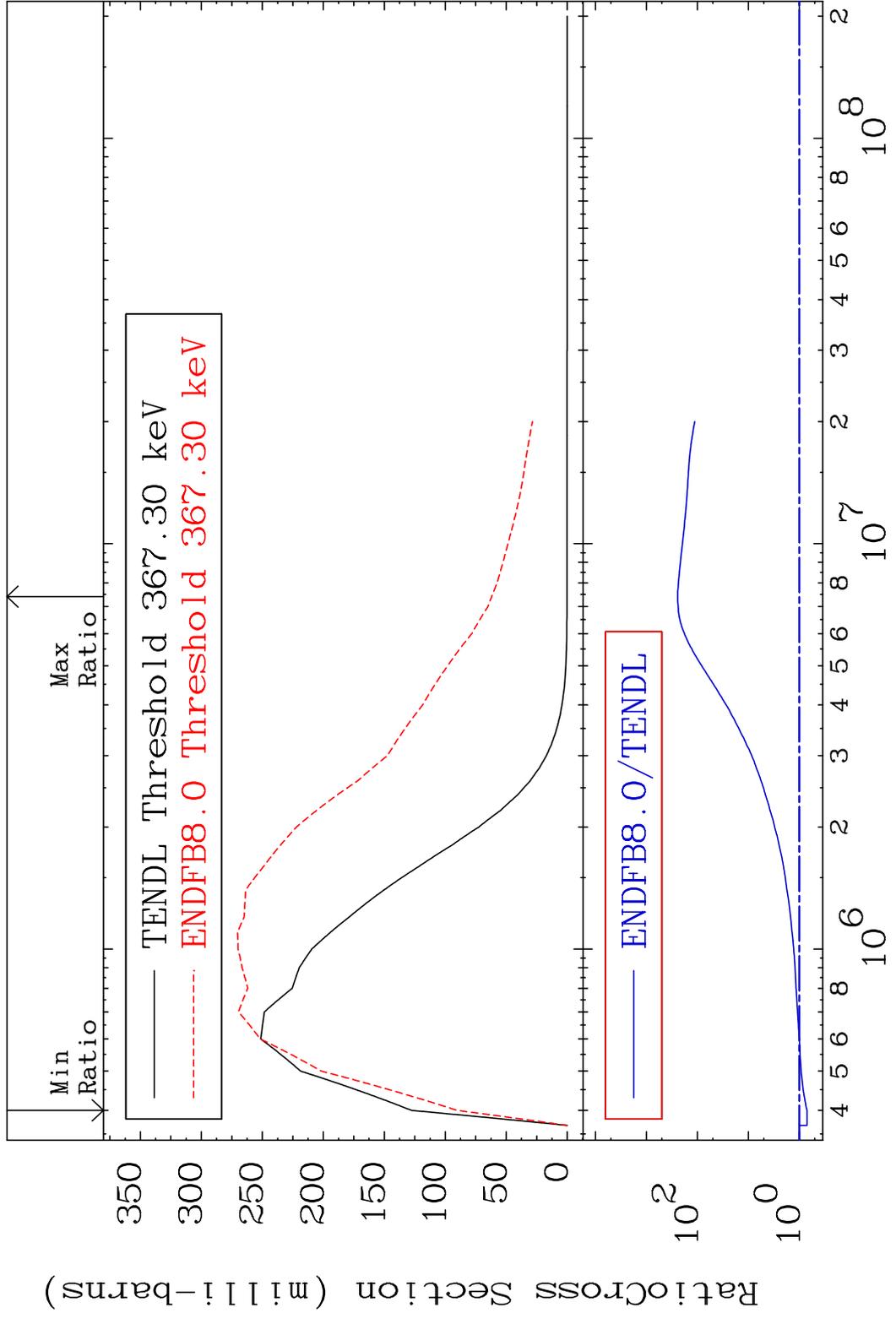
MAT 5446 MT= 52 (n, n') Level 54-Xe-131  
 Cross Section -100.0 To 285.3 %



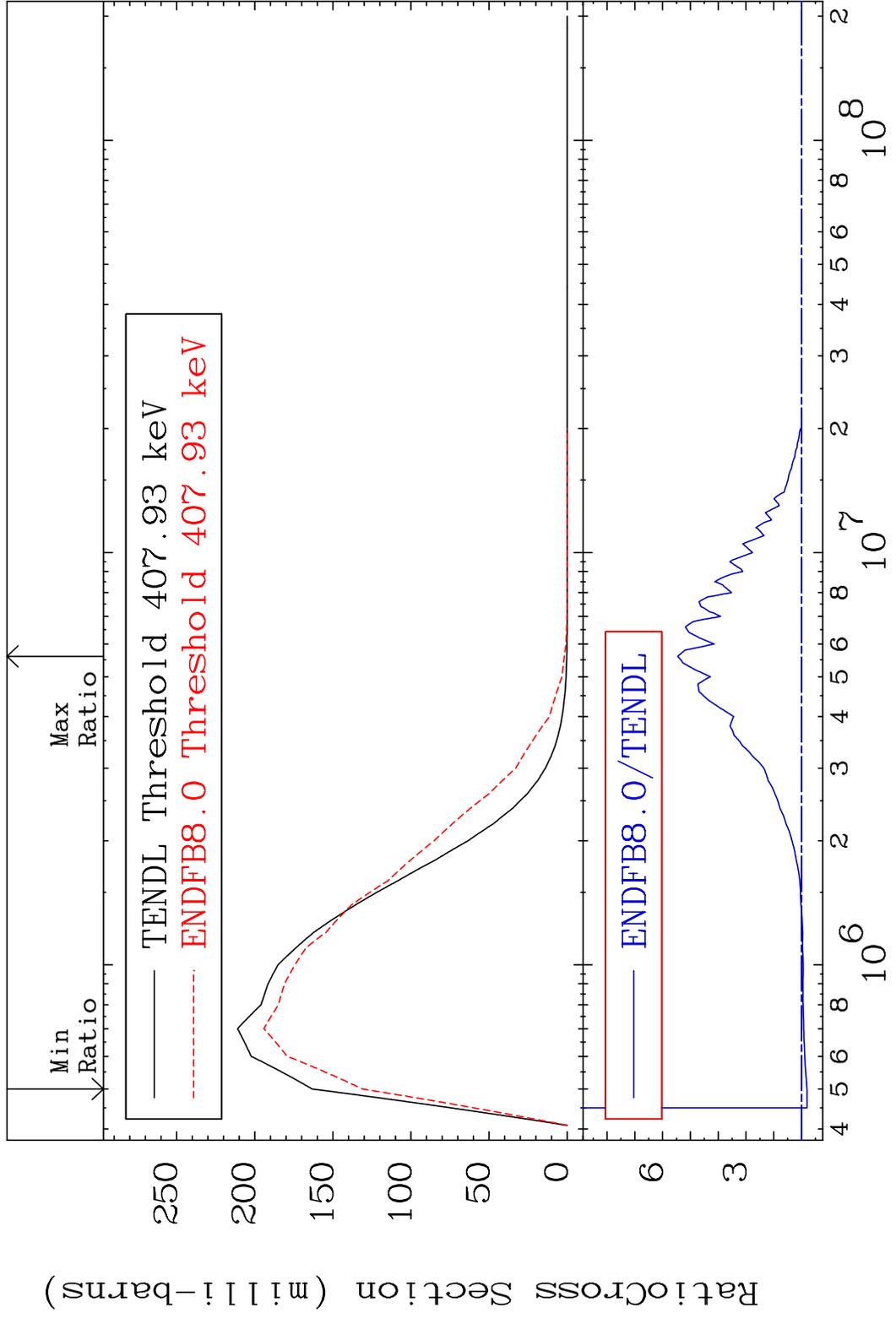
MAT 5446 MT= 53 (n, n') Level 54-Xe-131  
 Cross Section -100.0 To 299.2 %



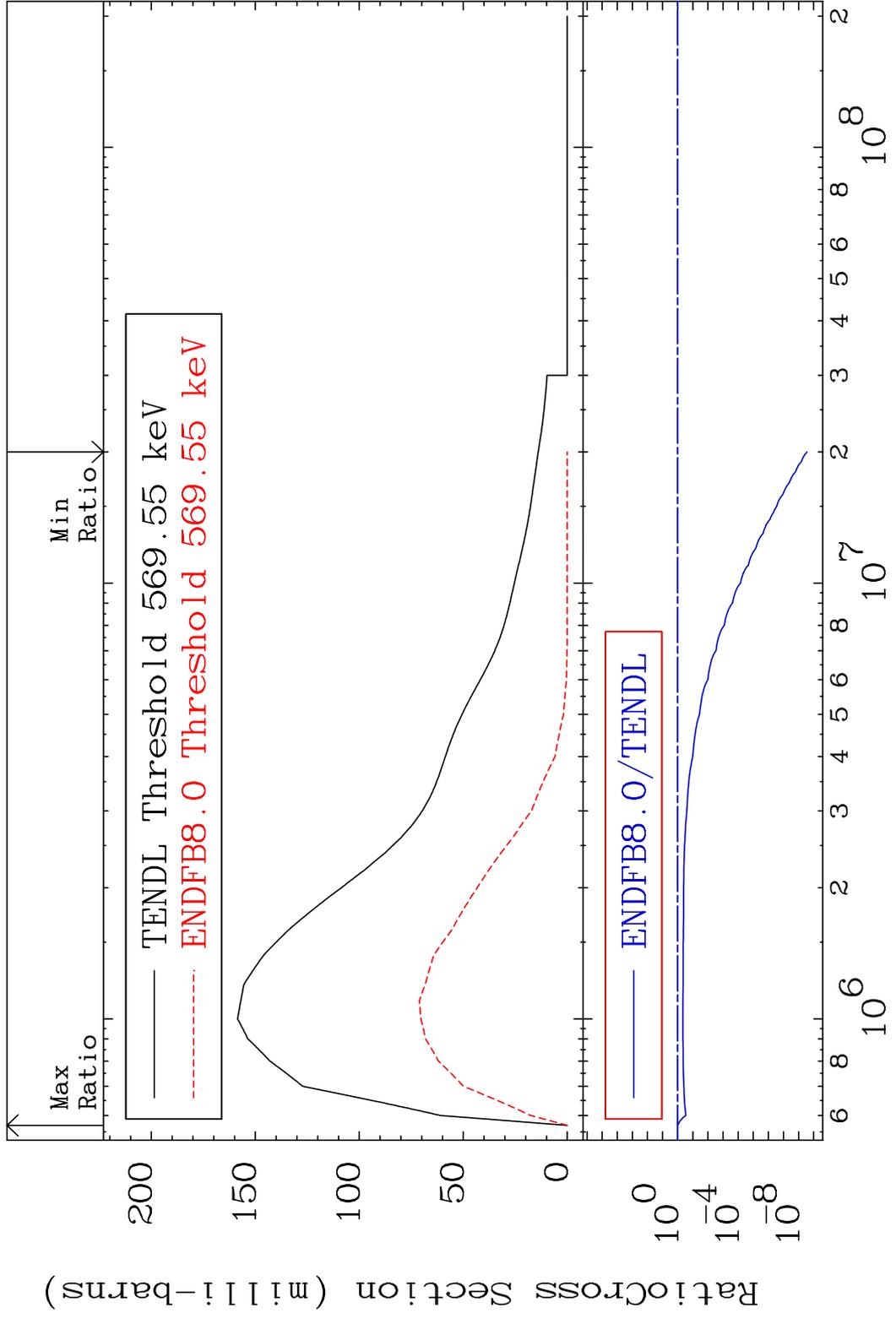
MAT 5446 MT= 54 (n, n') Level 54-Xe-131  
 Cross Section -29.28 To 9999. %



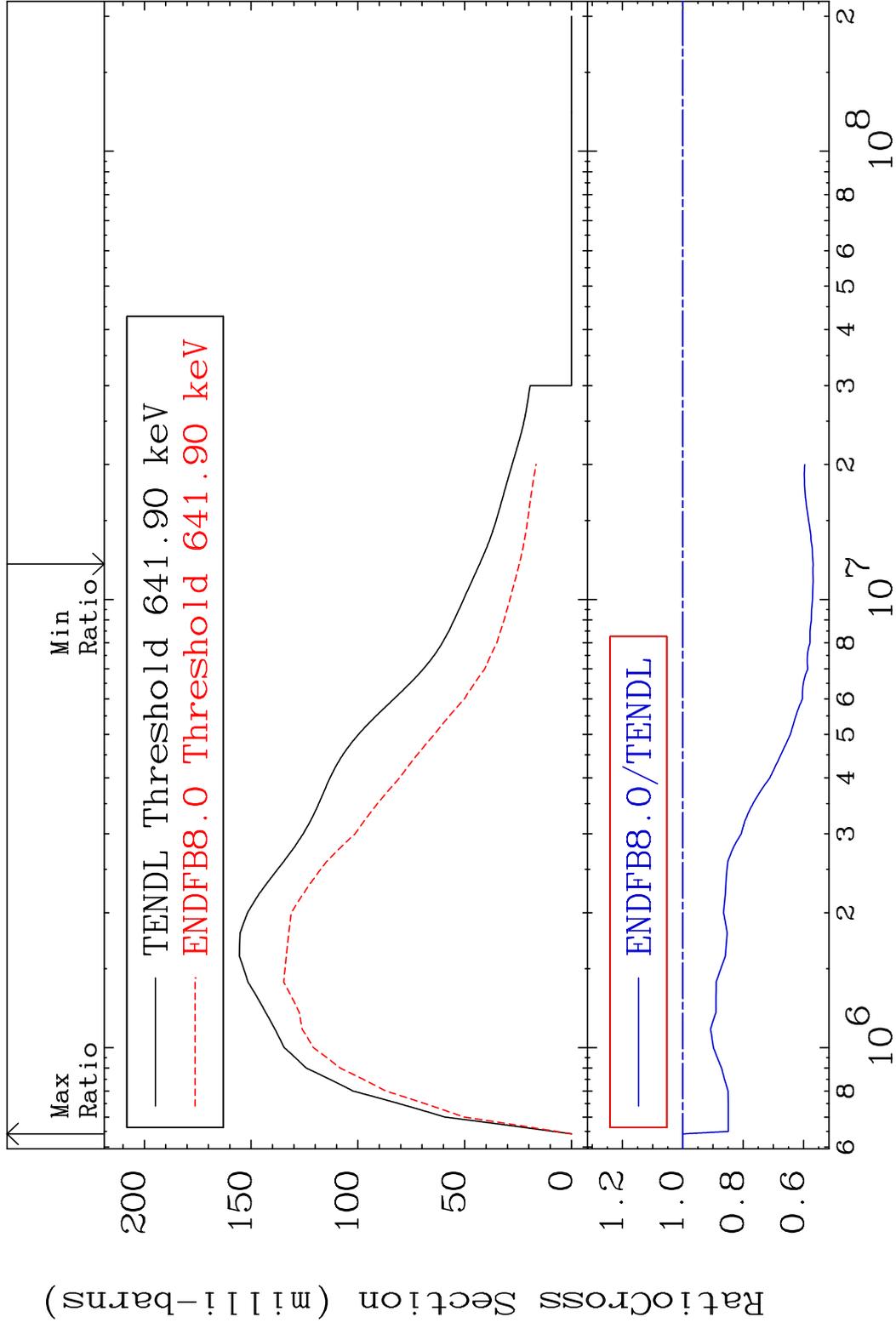
MAT 5446 MT= 55 (n, n') Level 54-Xe-131  
 Cross Section -19.74 To 445.7 %



MAT 5446 MT= 56 (n, n') Level 54-Xe-131  
 Cross Section -100.0 To 0.000 %

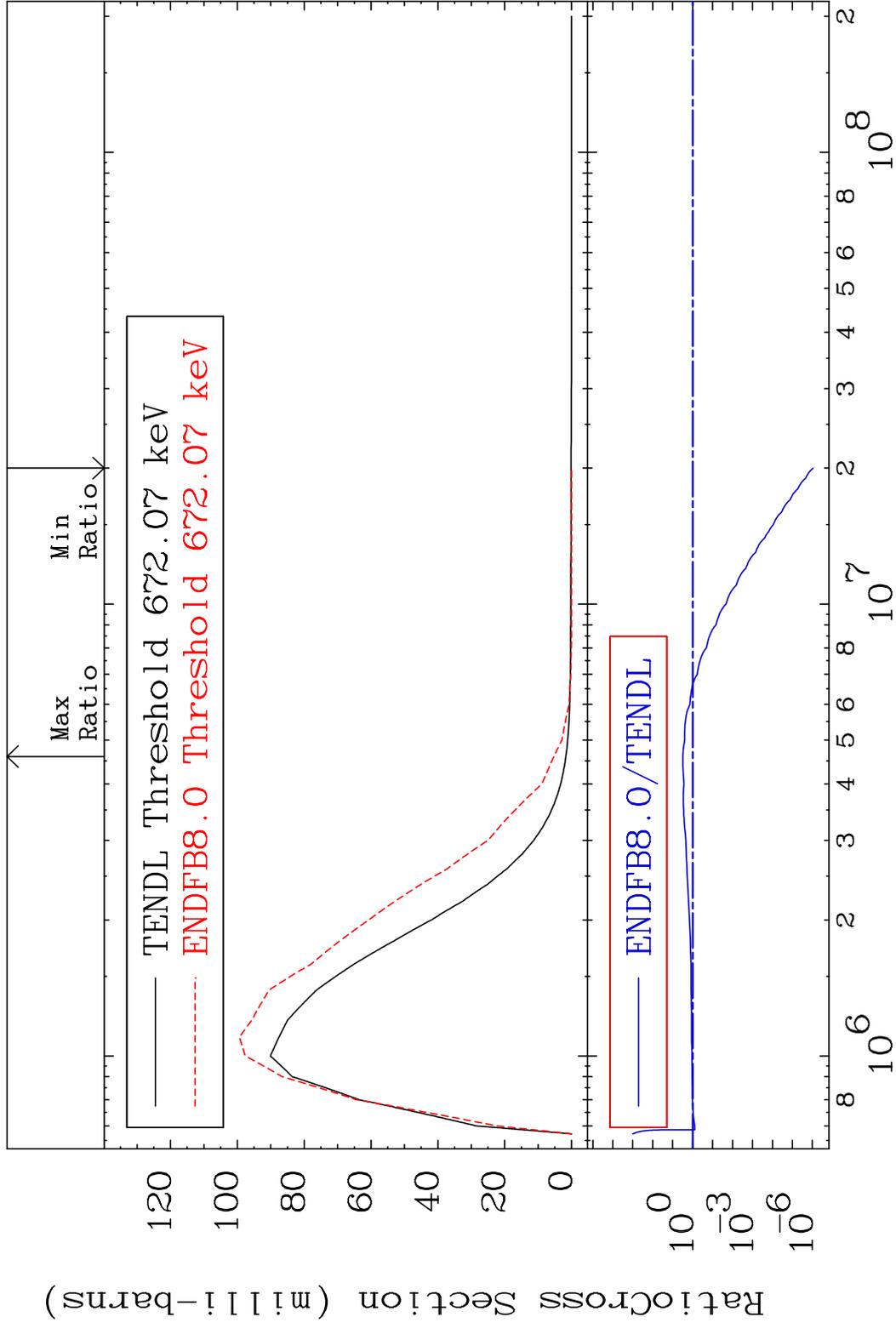


MAT 5446 MT= 57 (n, n') Level 54-Xe-131  
 Cross Section -43.18 To 0.000 %

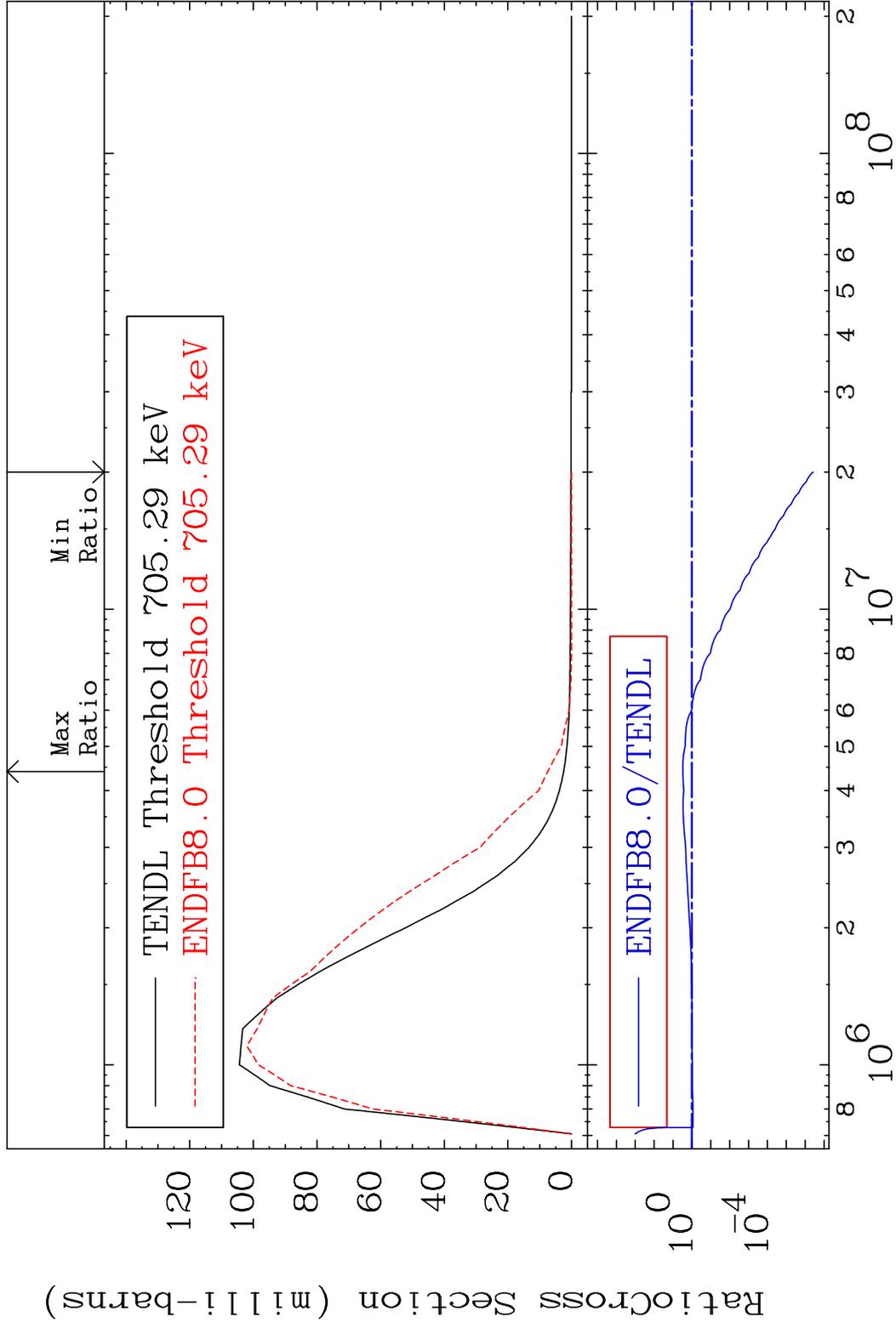


16 Incident Energy (eV) 54-Xe-131

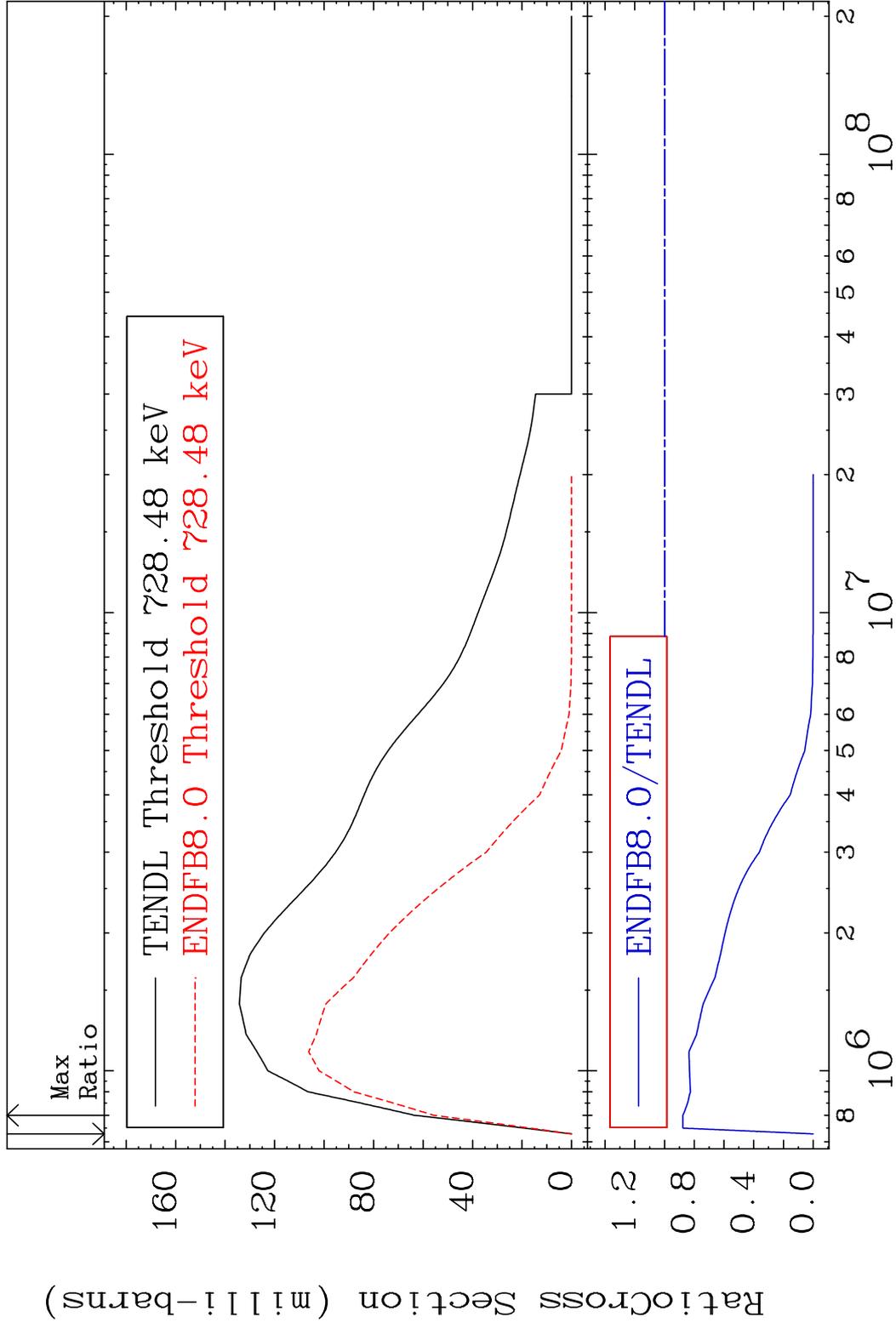
MAT 5446 MT= 58 (n, n') Level 54-Xe-131  
 Cross Section -100.0 To 209.9 %



MAT 5446 MT= 59 (n, n') Level 54-Xe-131  
 Cross Section -100.0 To 200.9 %

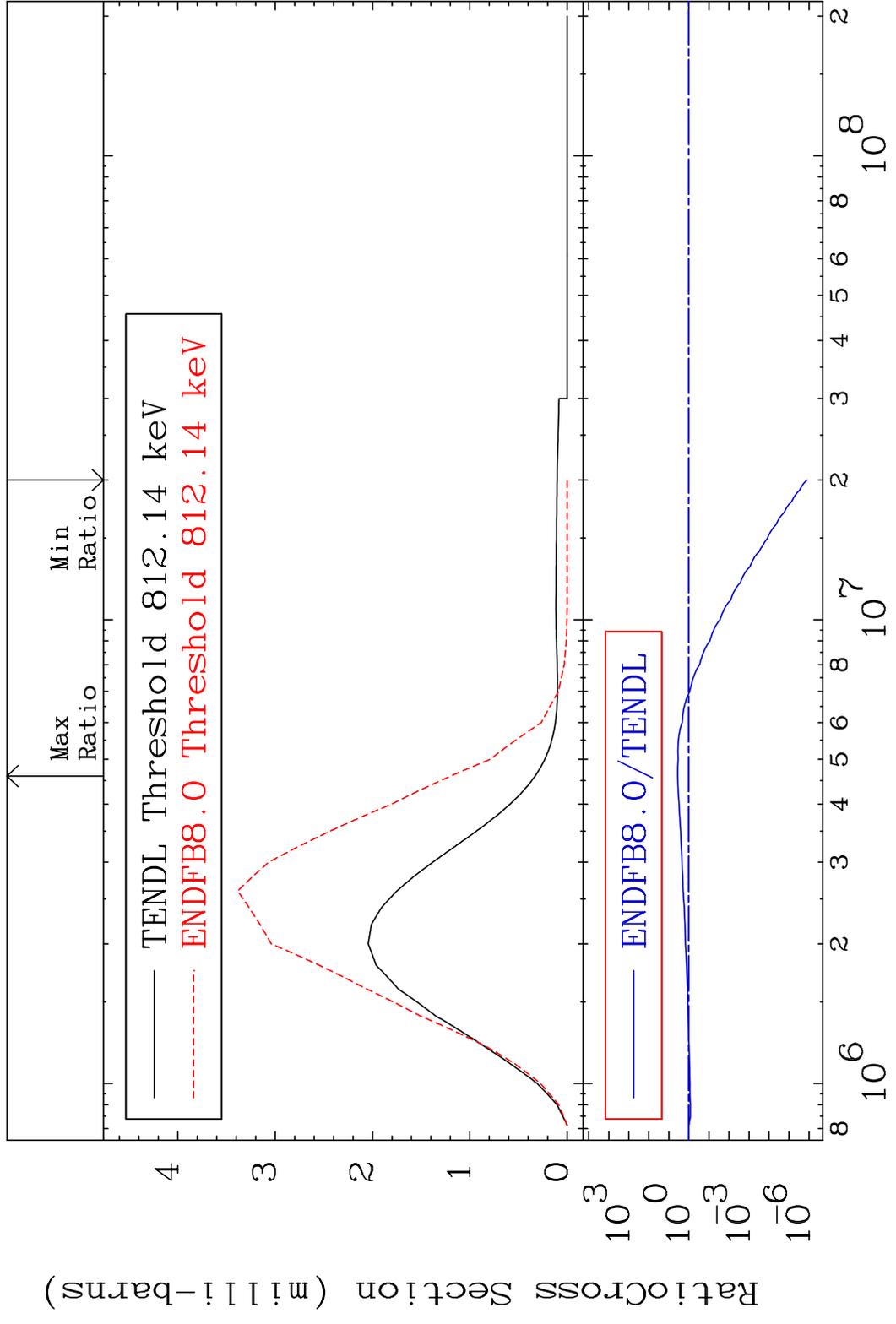


MAT 5446 MT= 60 (n,n') Level 54-Xe-131  
 Cross Section -100.0 To -12.32%



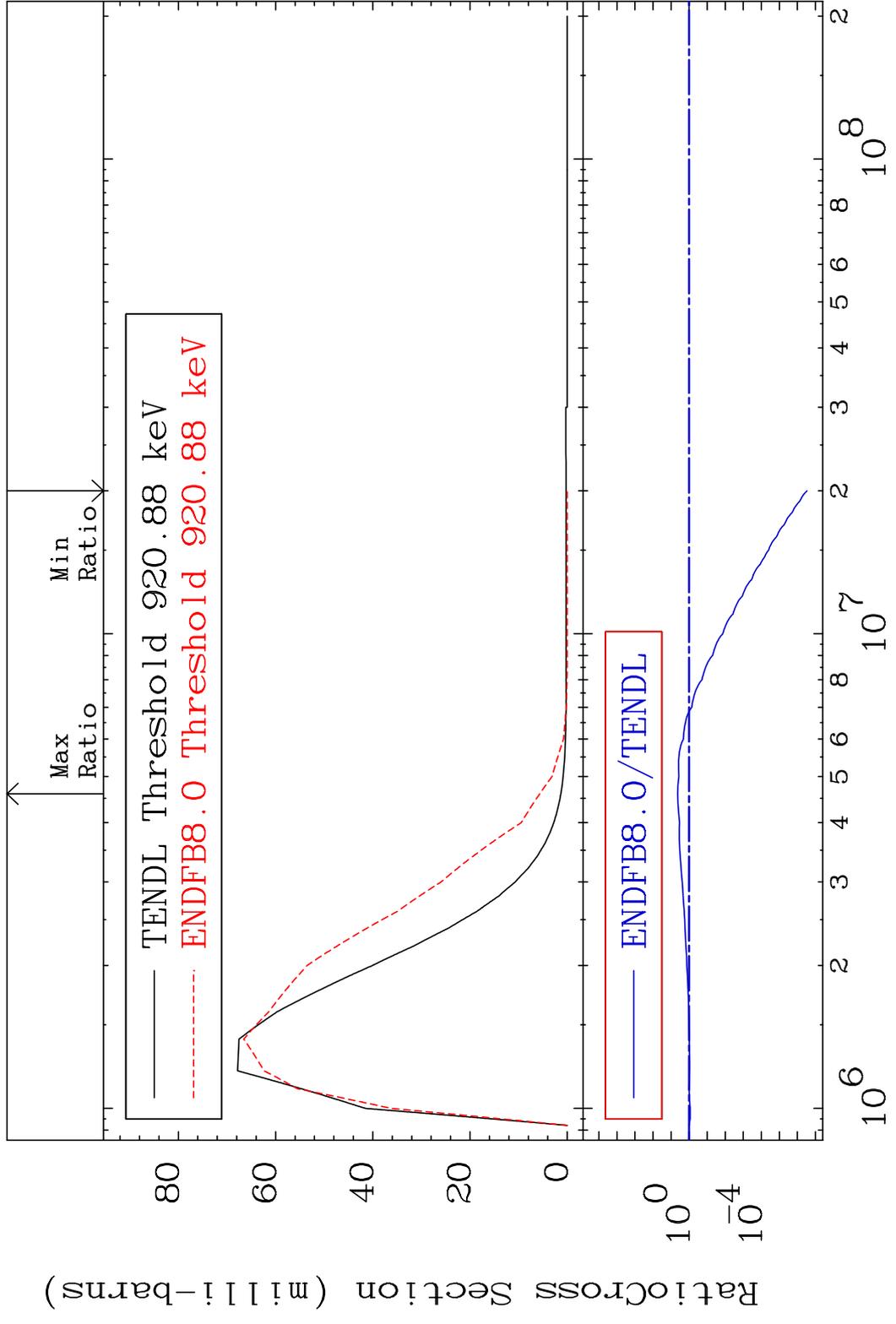
19 Incident Energy (eV) 54-Xe-131

MAT 5446 MT= 61 (n, n') Level 54-Xe-131  
 Cross Section -100.0 To 262.8 %



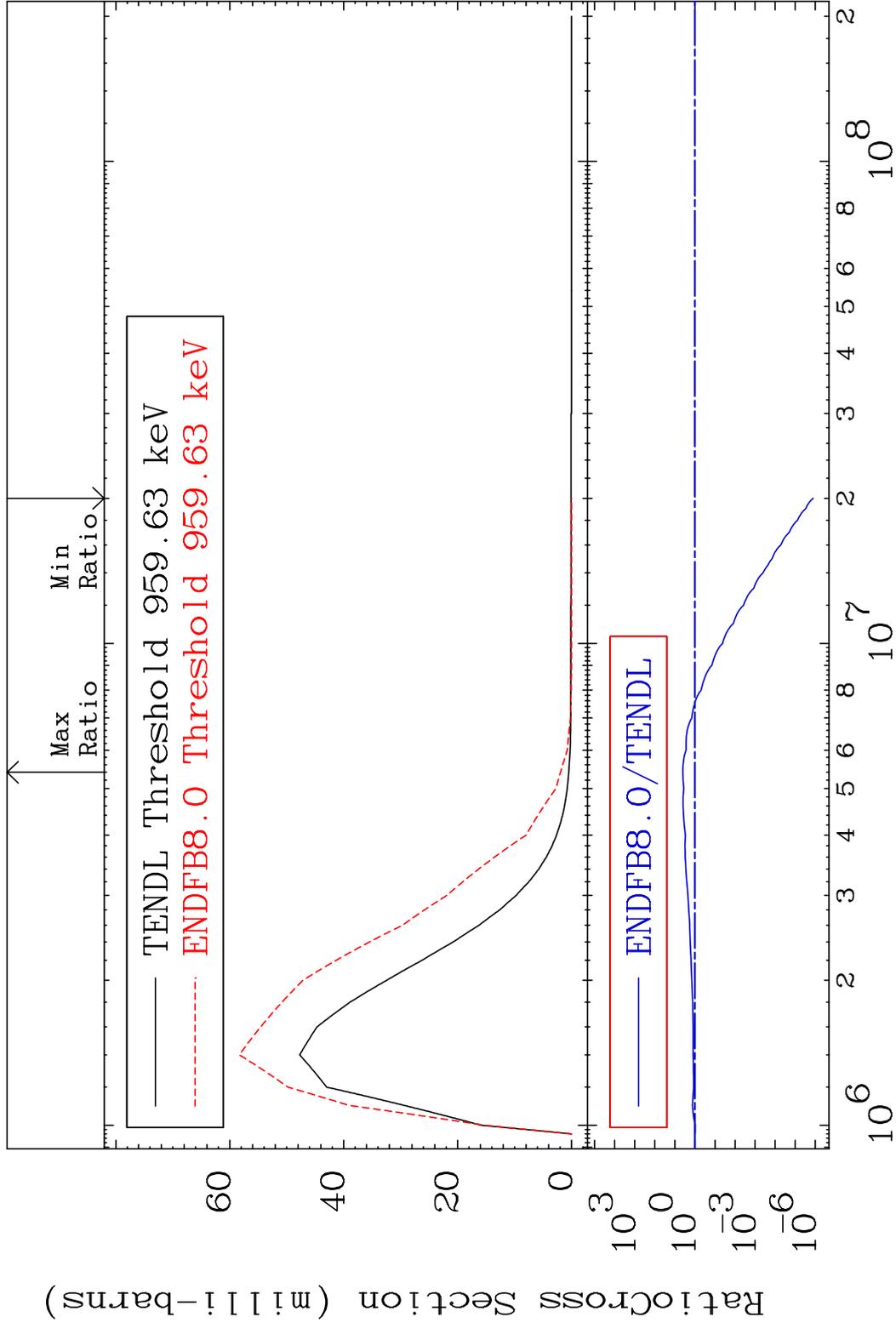
20 Incident Energy (eV) 54-Xe-131

MAT 5446 MT= 62 (n, n') Level 54-Xe-131  
 Cross Section -100.0 To 330.4 %

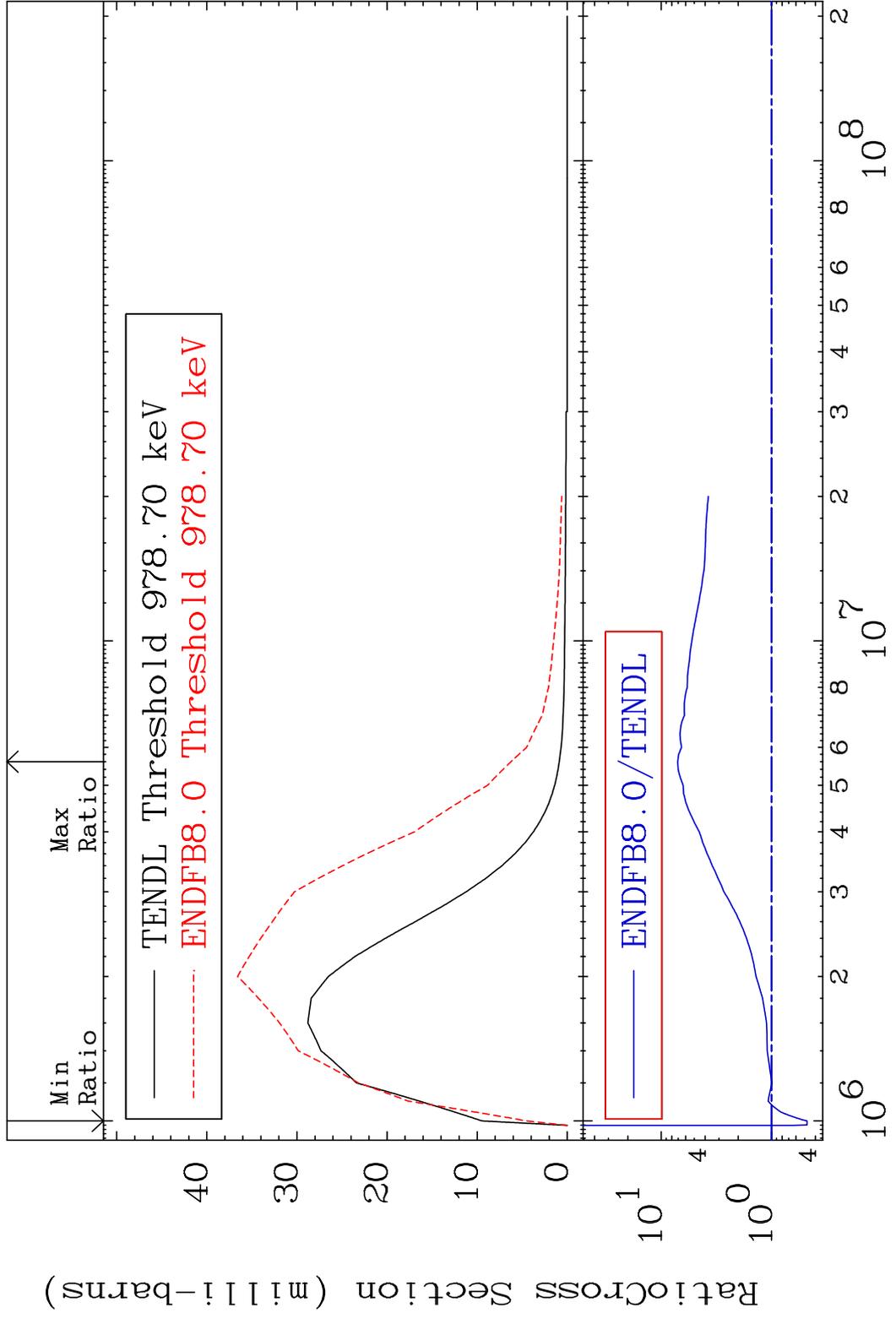


21 Incident Energy (eV) 54-Xe-131

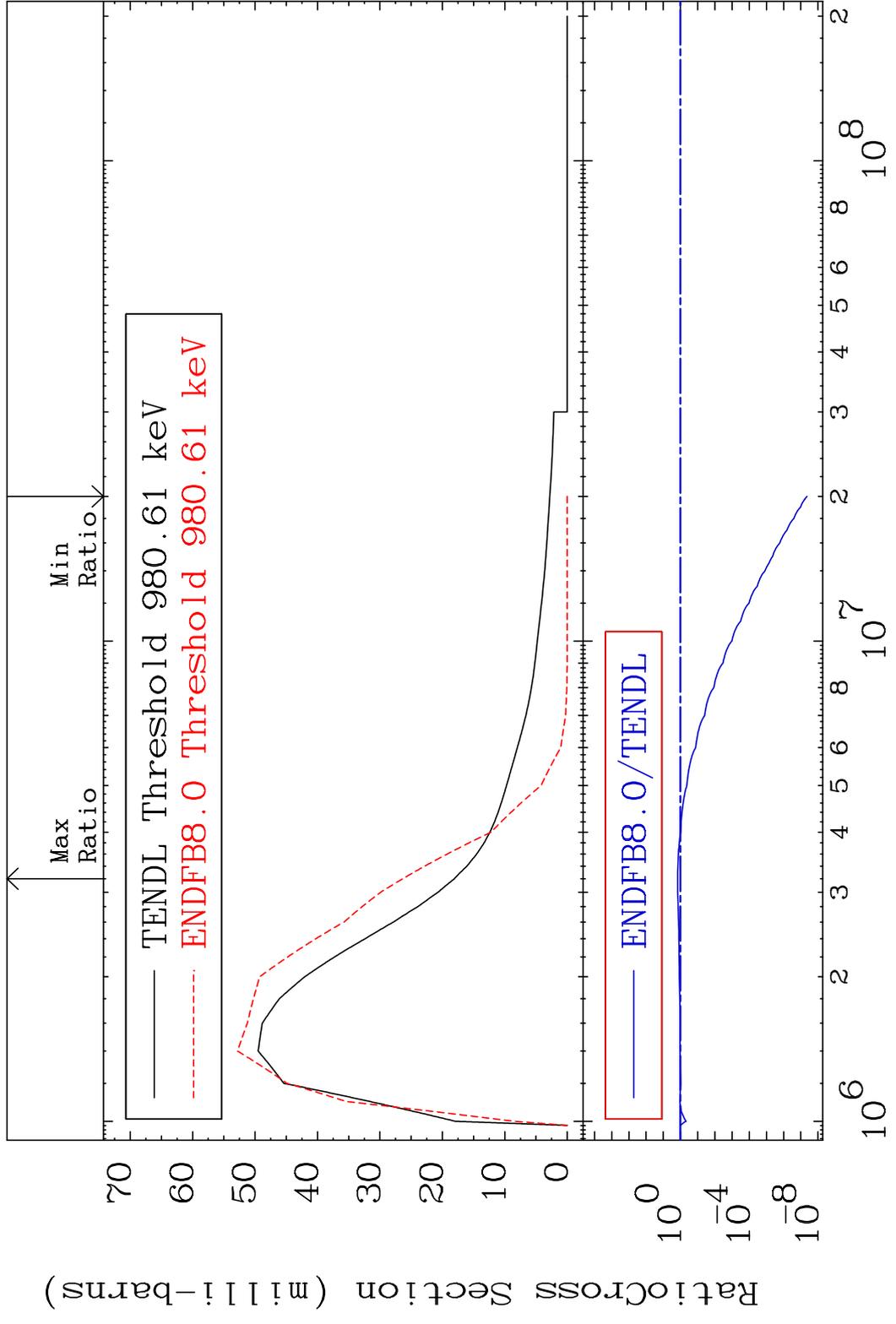
MAT 5446 MT= 63 (n, n') Level 54-Xe-131  
 Cross Section -100.0 To 301.0 %



MAT 5446 MT= 64 (n, n') Level 54-Xe-131  
 Cross Section -52.28 To 607.7 %

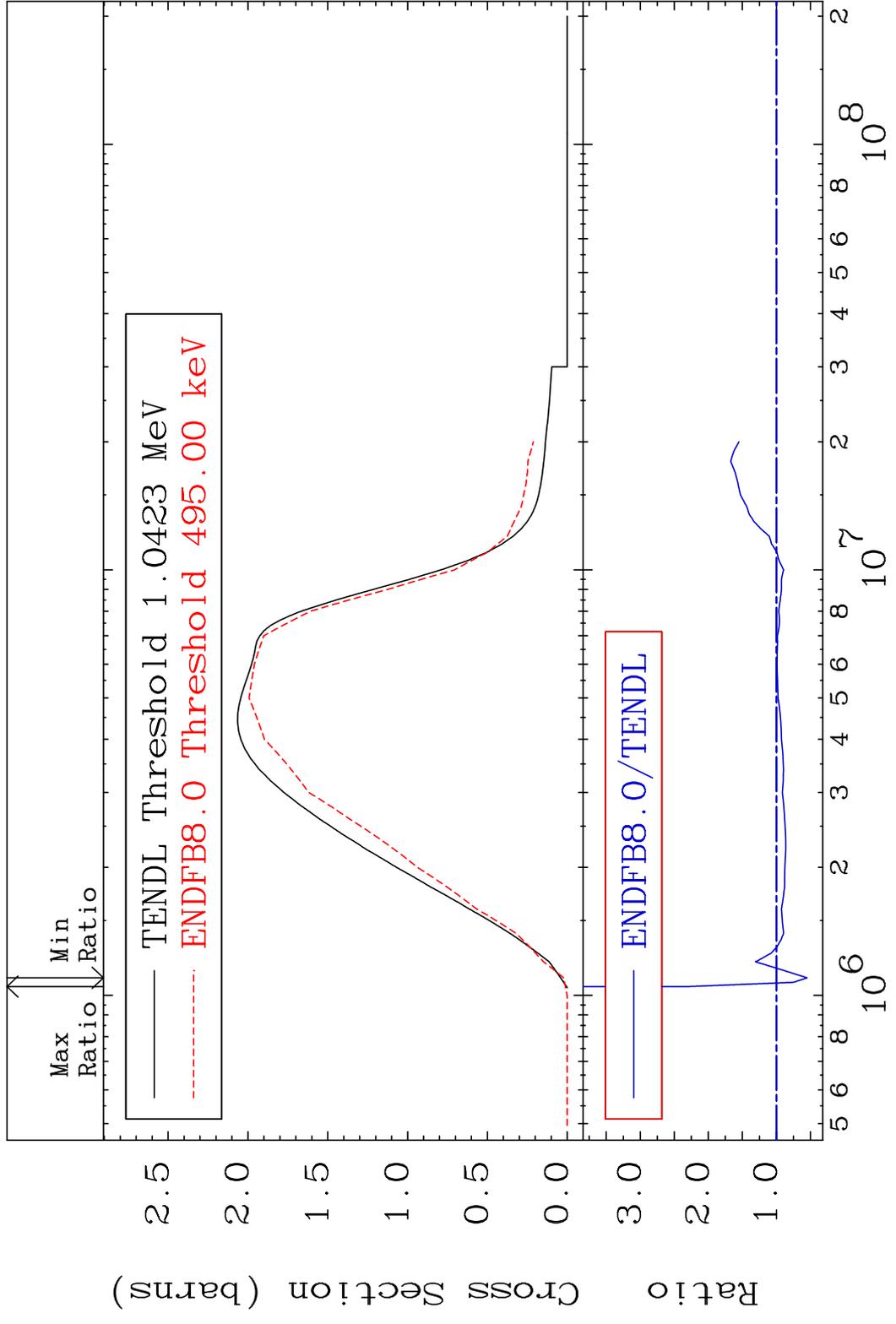


MAT 5446 MT= 65 (n, n') Level 54-Xe-131  
 Cross Section -100.0 To 45.56 %



24 Incident Energy (eV) 54-Xe-131

MAT 5446 (n,n') Continuum 54-Xe-131  
 Cross Section -44.93 To 145.0 %

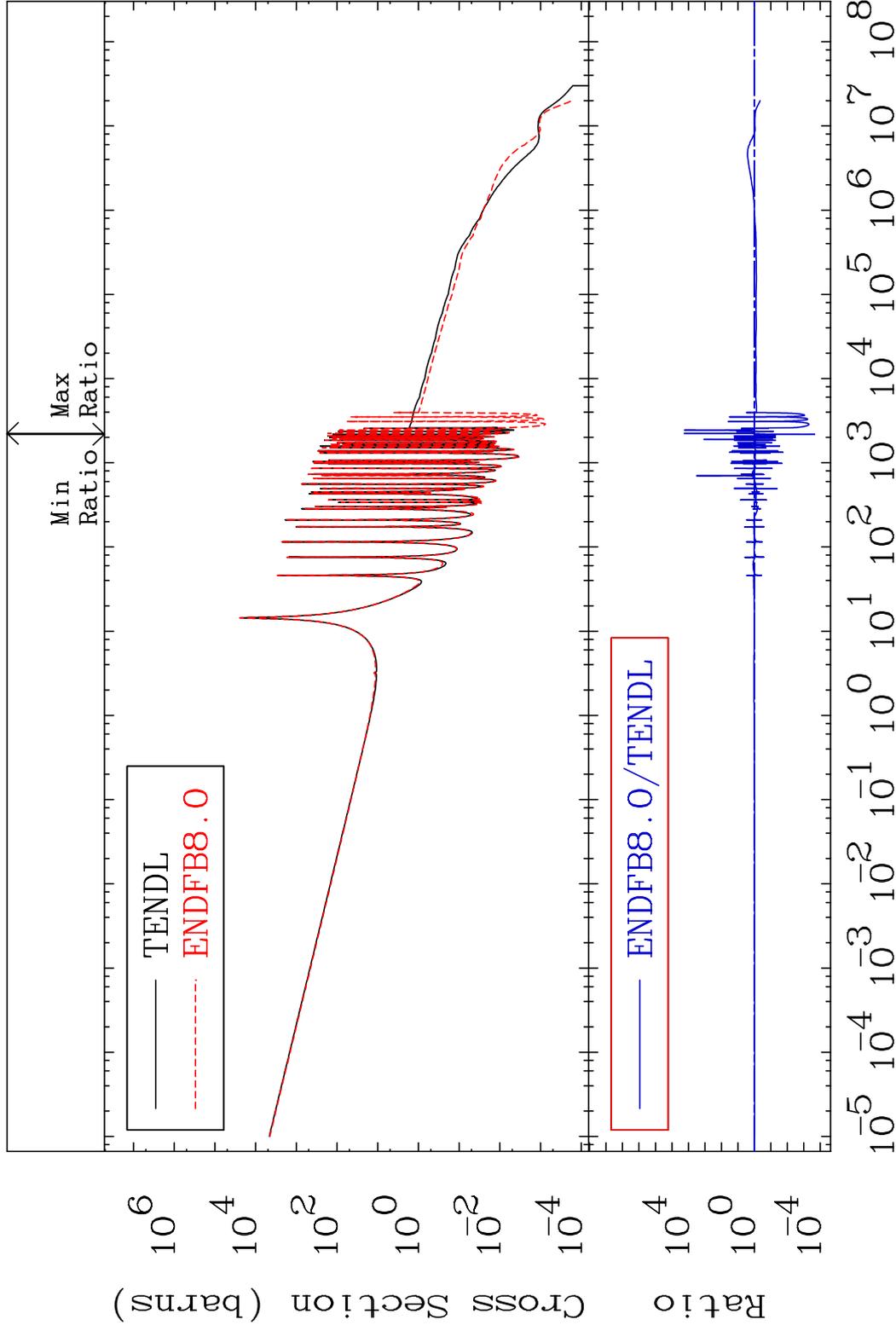


MAT 5446

(n,  $\gamma$ )

54-Xe-131

Cross Section -99.98 To 9999. %



26

Incident Energy (eV)

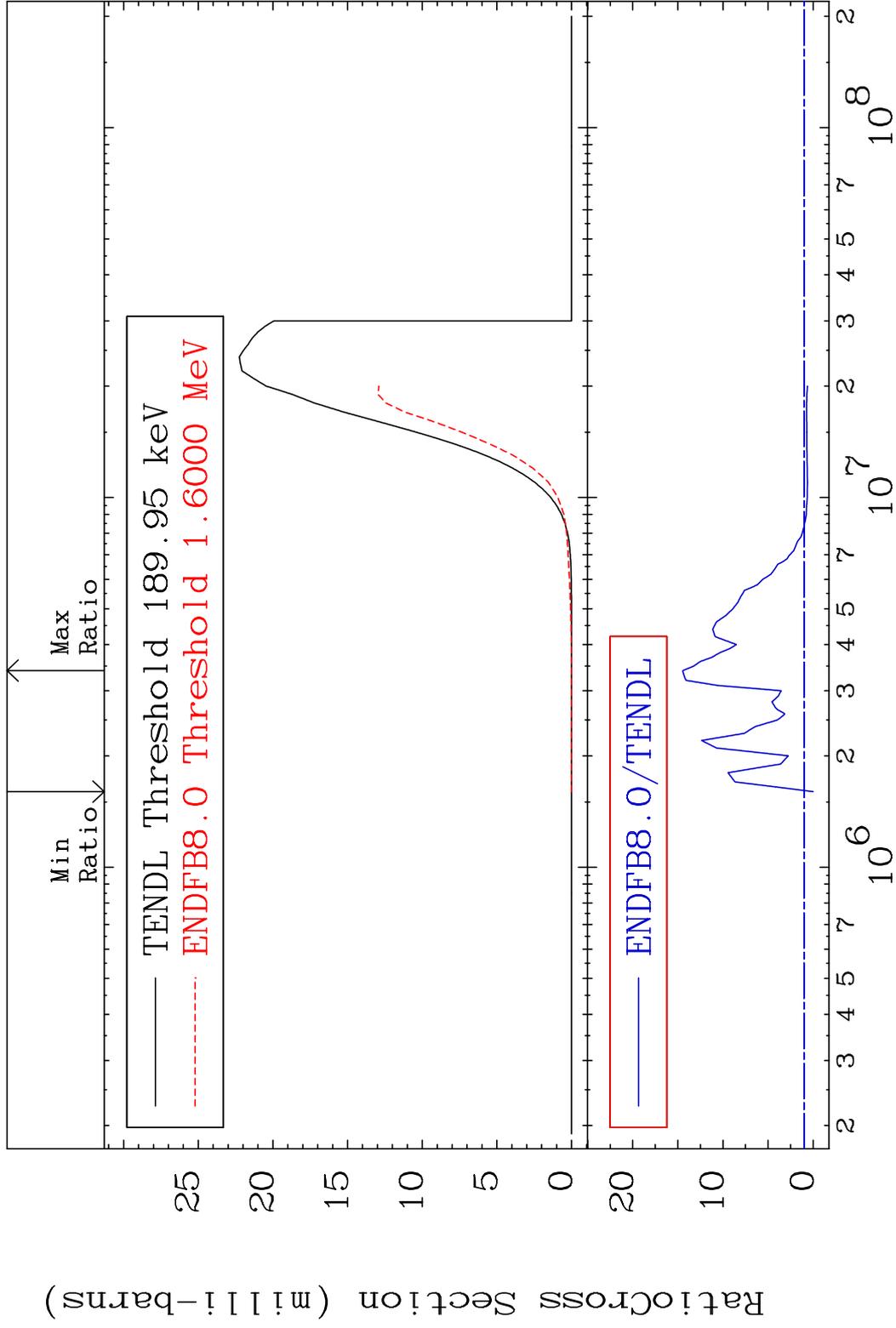
54-Xe-131

MAT 5446

(n, p)

54-Xe-131

Cross Section -100.0 To 1345. %

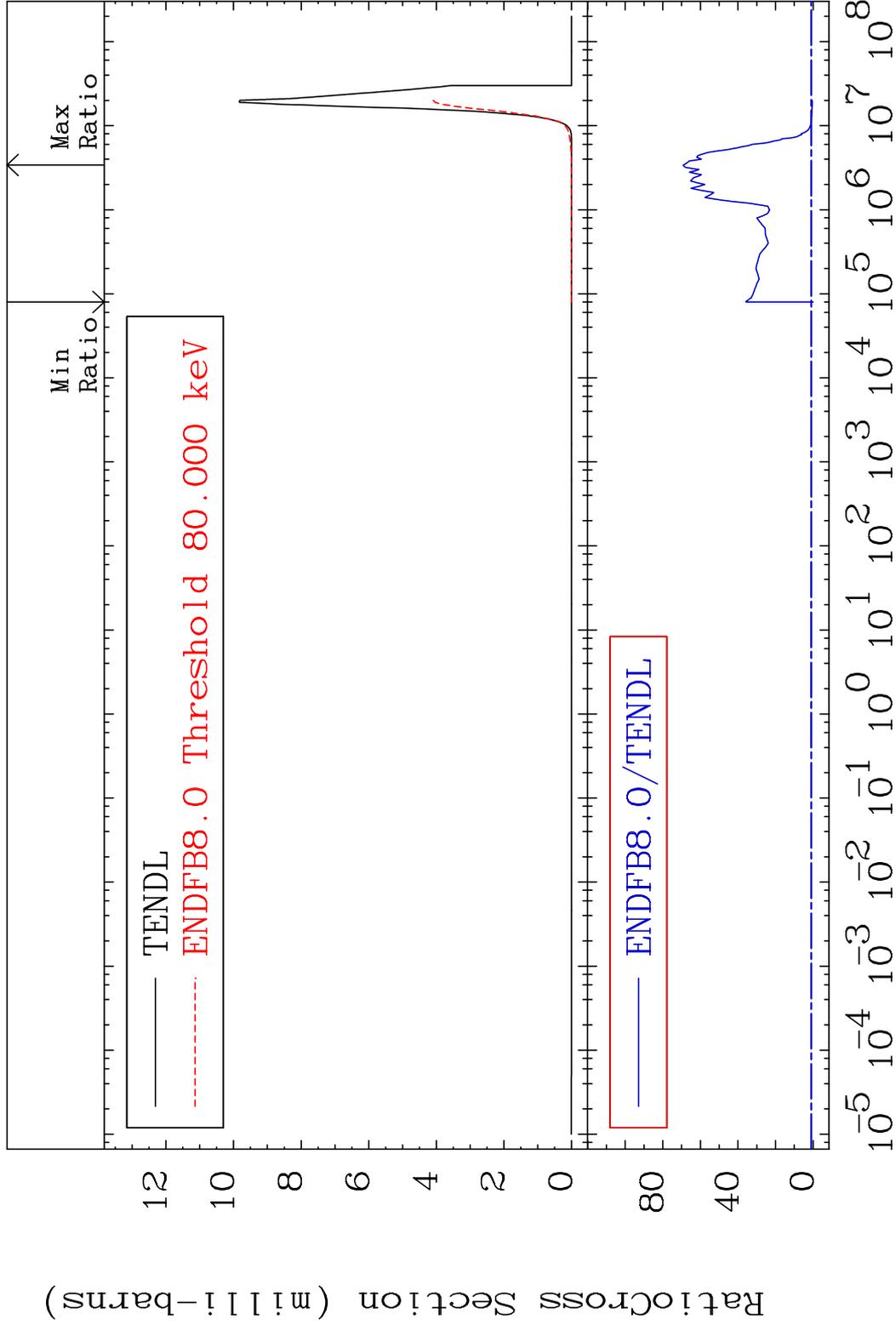


MAT 5446

(n,  $\alpha$ )

54-Xe-131

Cross Section -100.0 To 6834. %



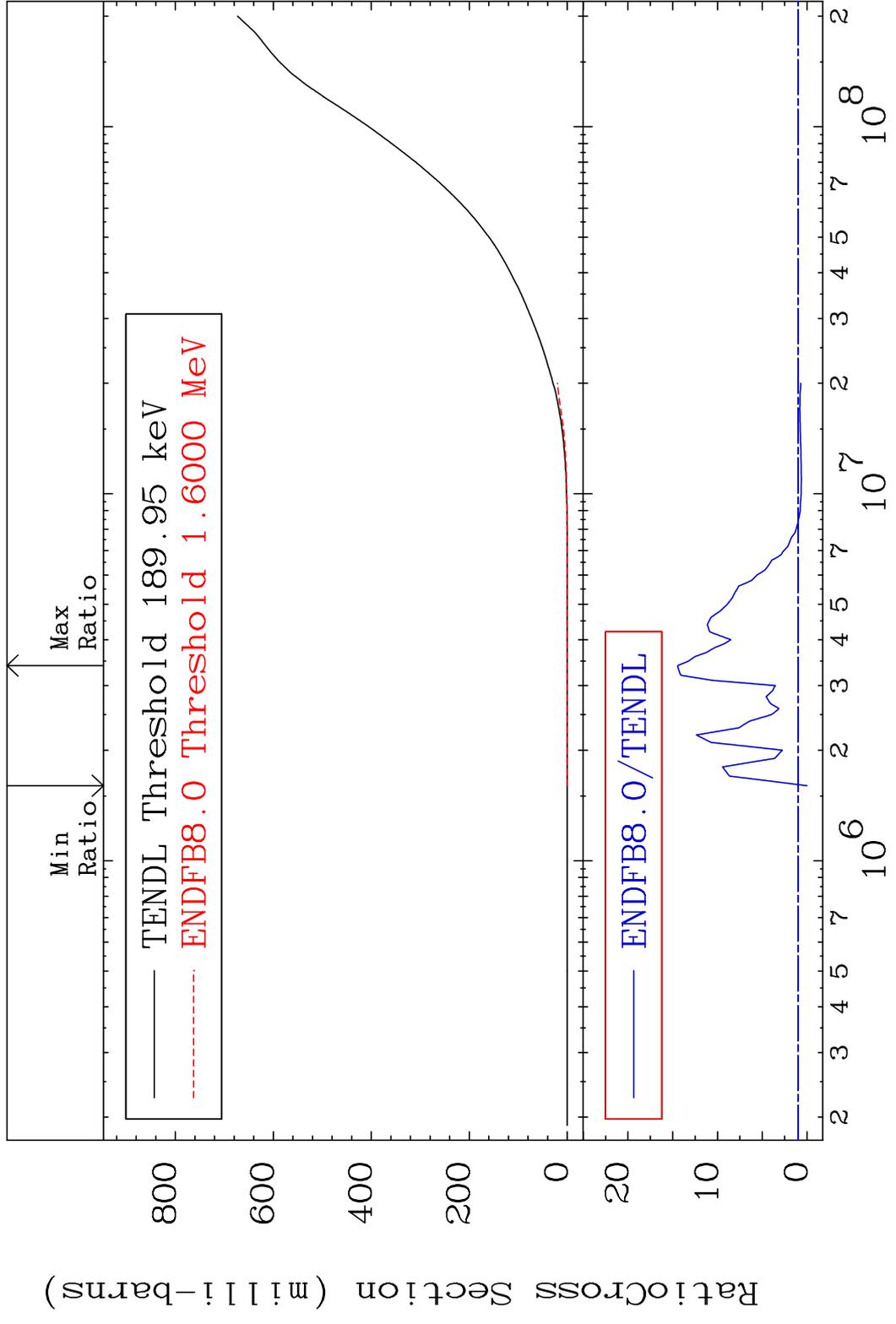
28

Incident Energy (eV)

54-Xe-131

MAT 5446

Hydrogen Production 54-Xe-131  
Cross Section -100.0 To 1345. %

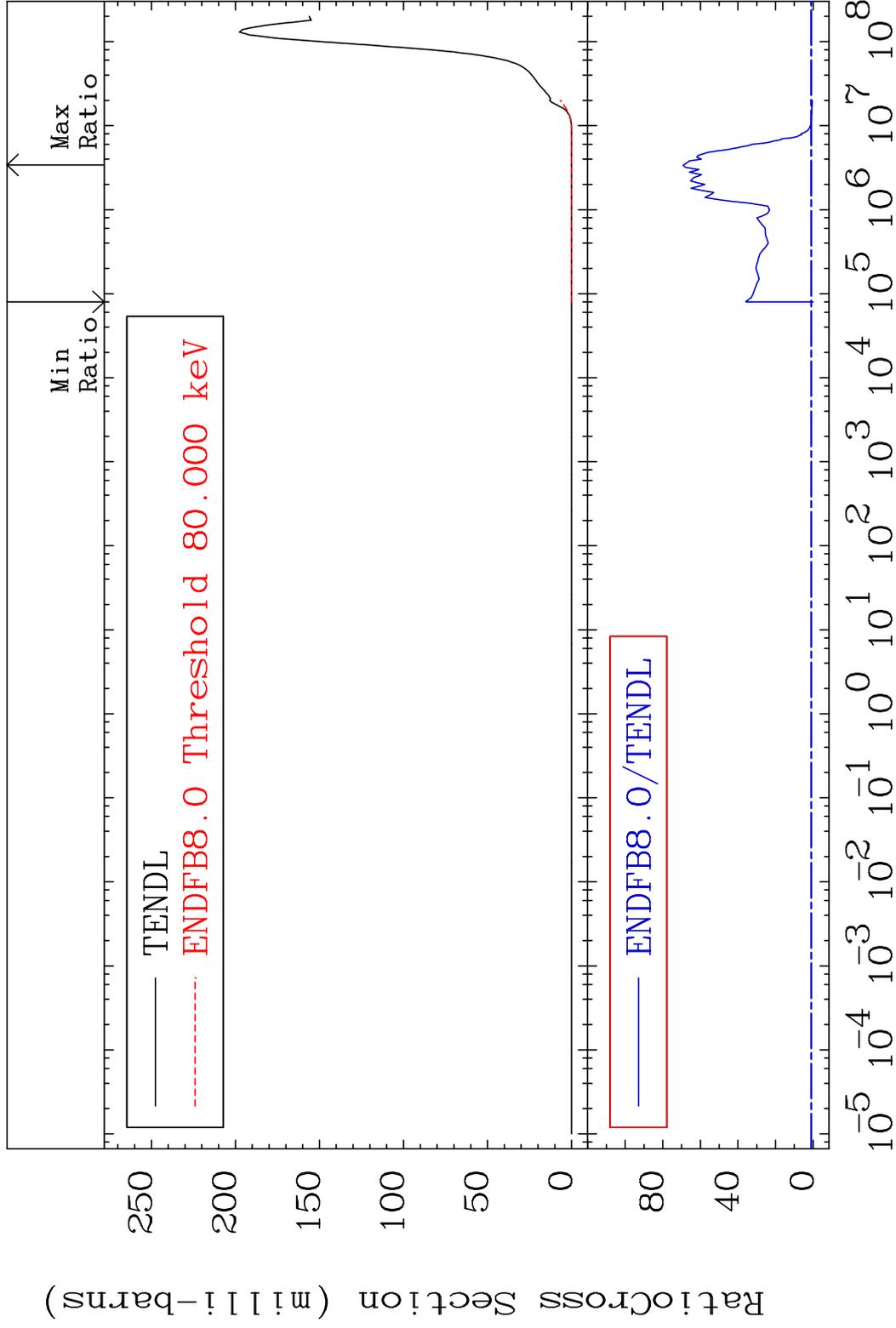


MAT 5446

He-4 Production

54-Xe-131

Cross Section -100.0 To 6834. %

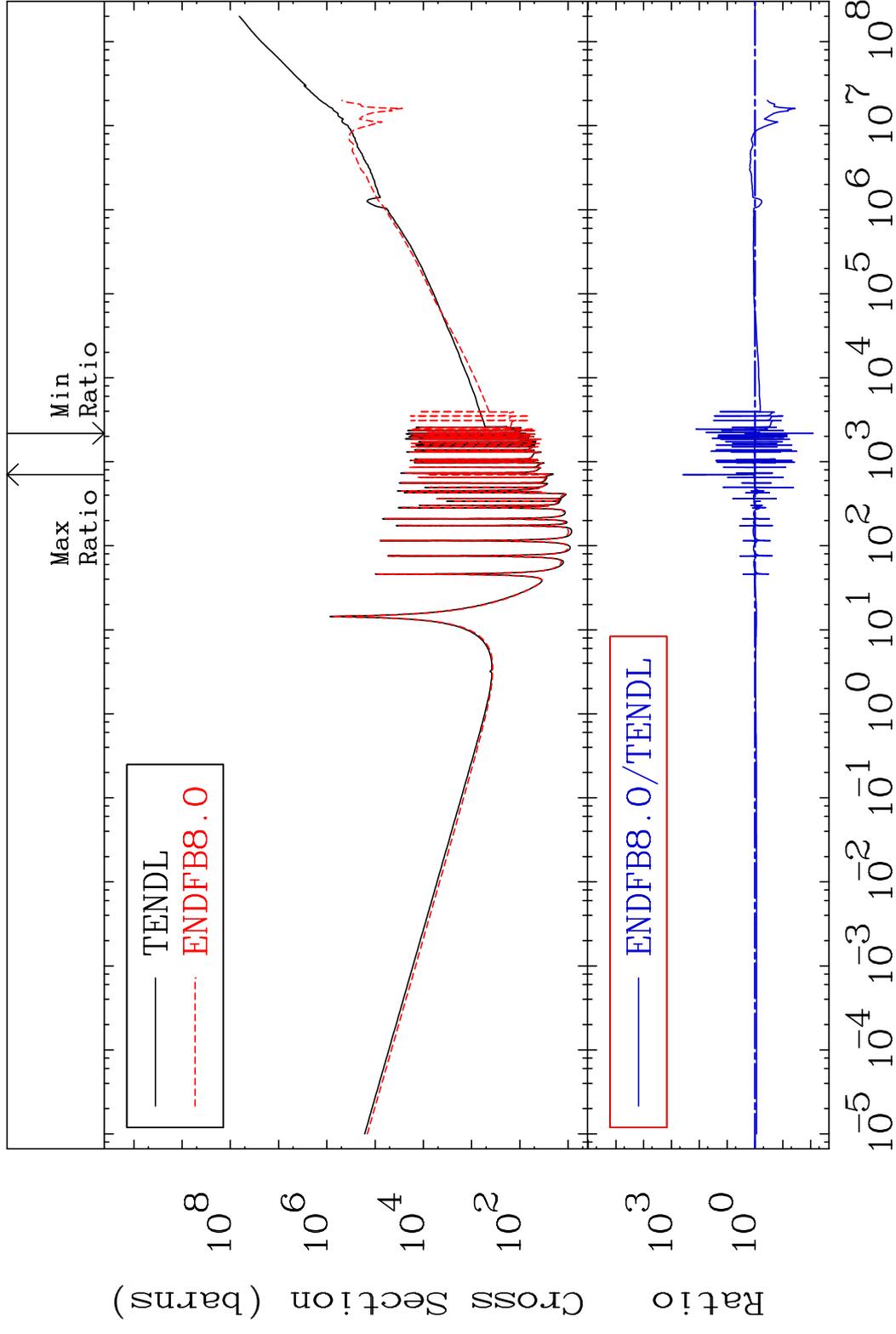


30

Incident Energy (eV)

54-Xe-131

MAT 5446 Kerma total (eV-barns) 54-Xe-131  
 Cross Section -99.19 To 9999. %

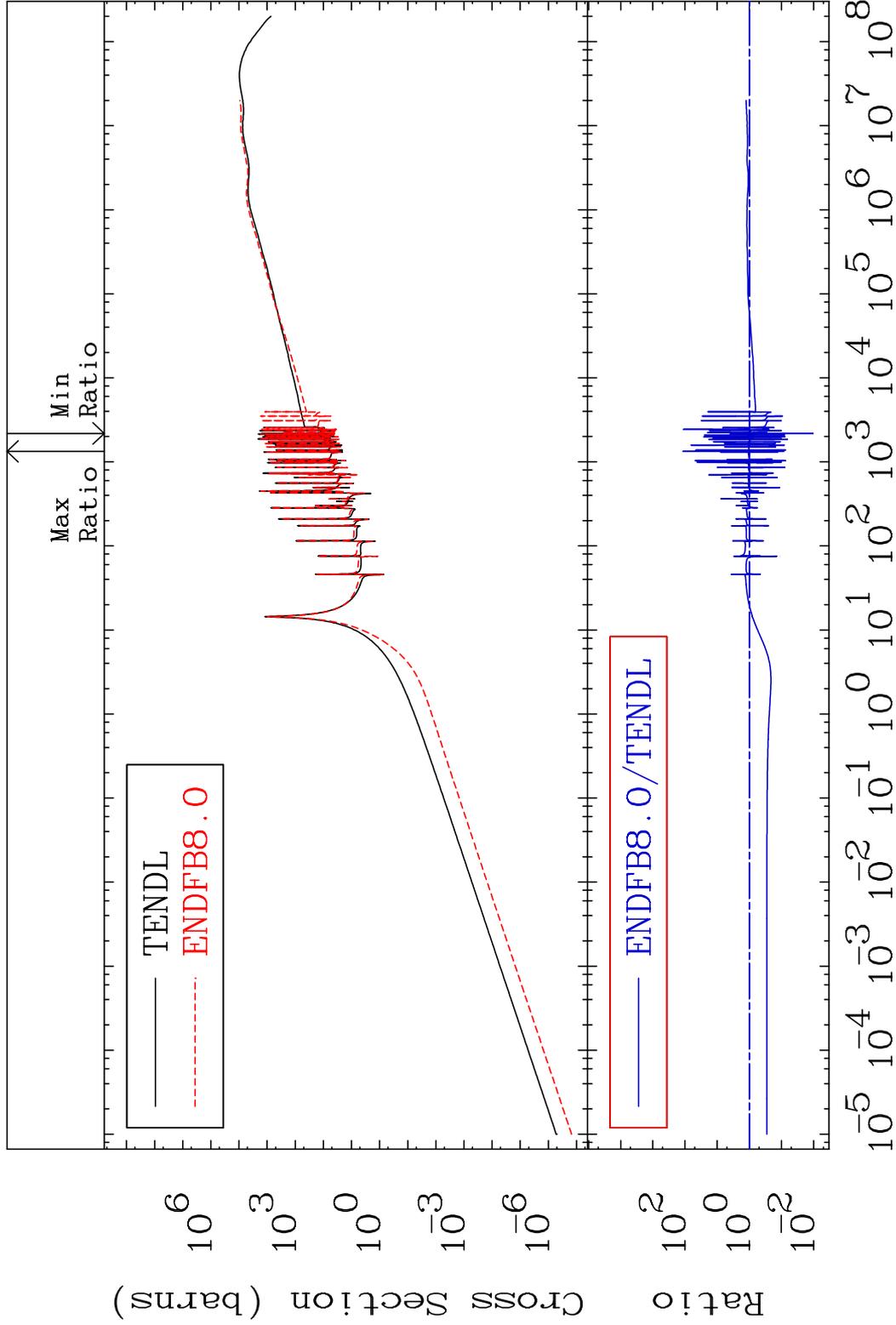


MAT 5446

Kerma elastic  
Cross Section

54-Xe-131

-98.96 To 9999. %

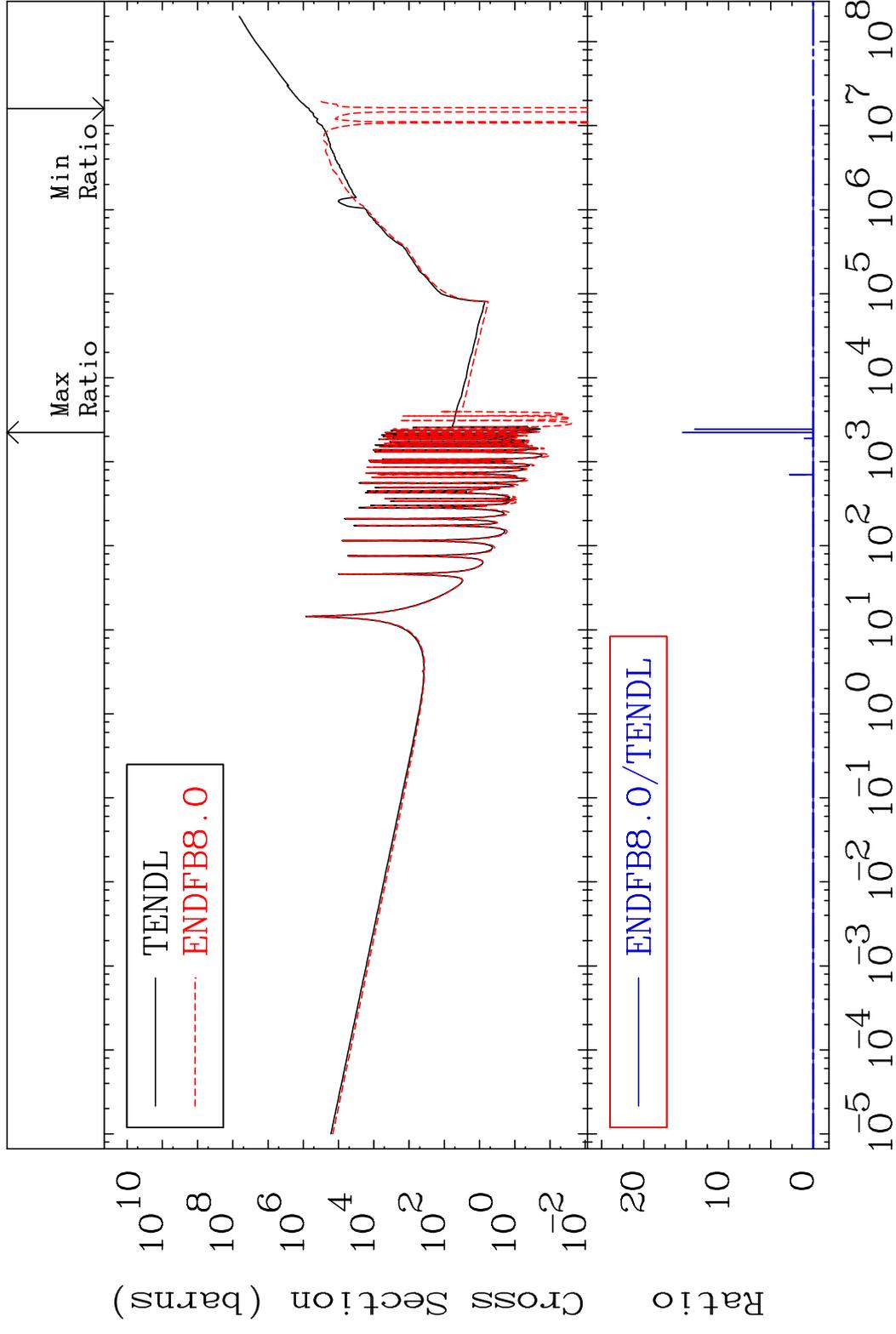


32

Incident Energy (eV)

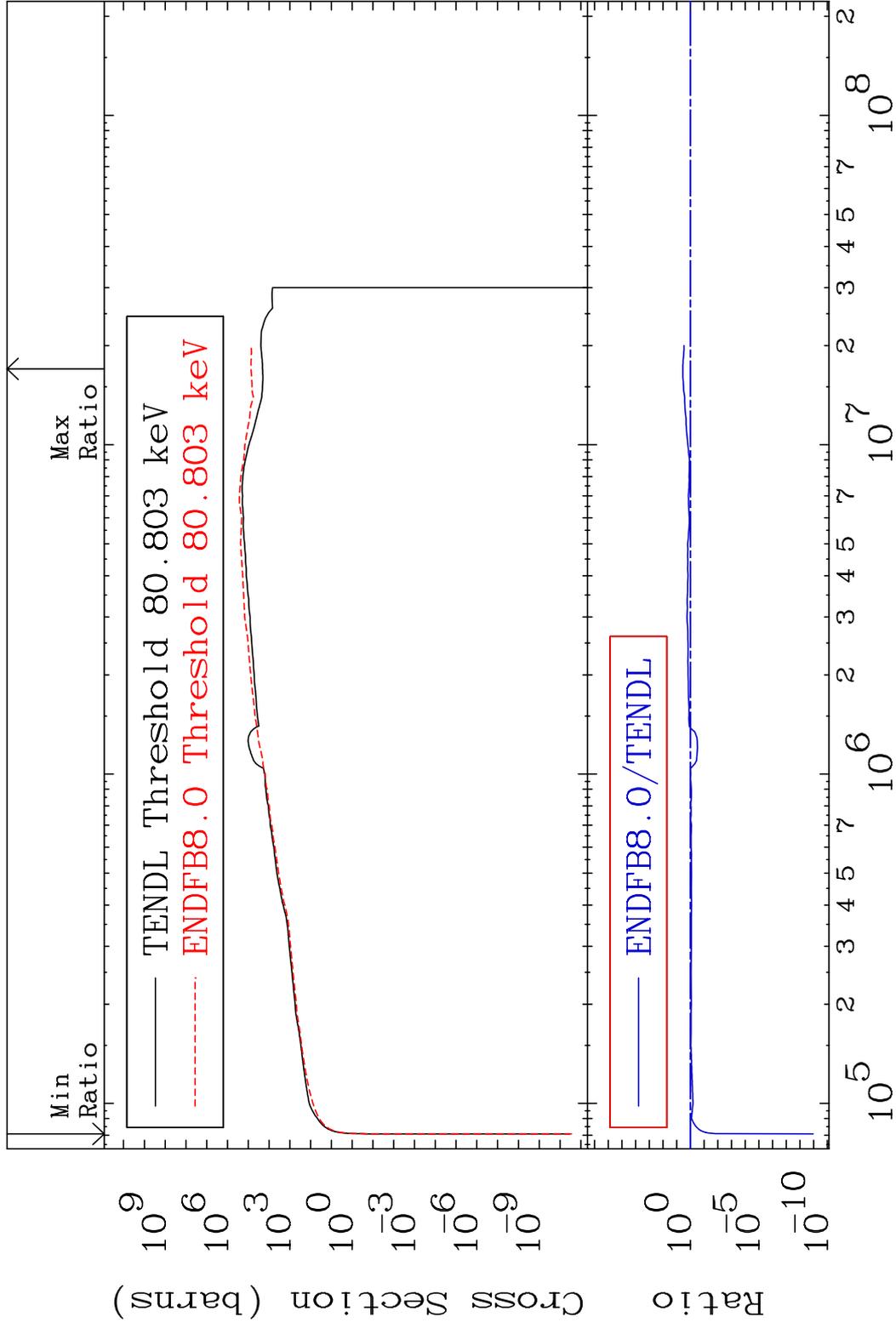
54-Xe-131

MAT 5446 Kerma non-elastic (all but mt2) 54-Xe-131  
 Cross Section -108.3 To 9999. %

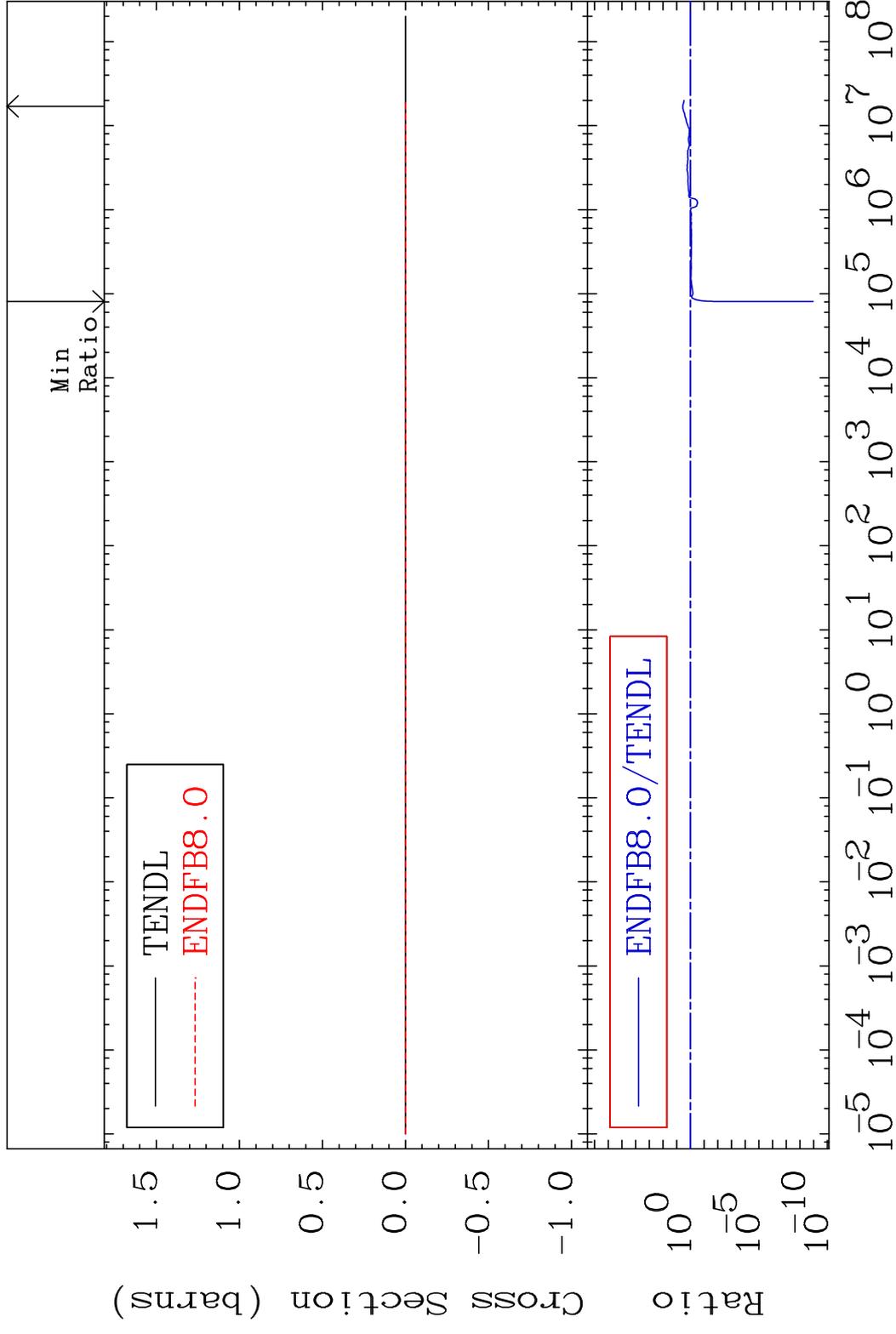


33 Incident Energy (eV) 54-Xe-131

MAT 5446 Kerma inelastic (mt51-91) 54-Xe-131  
 Cross Section -100.0 To 258.9 %

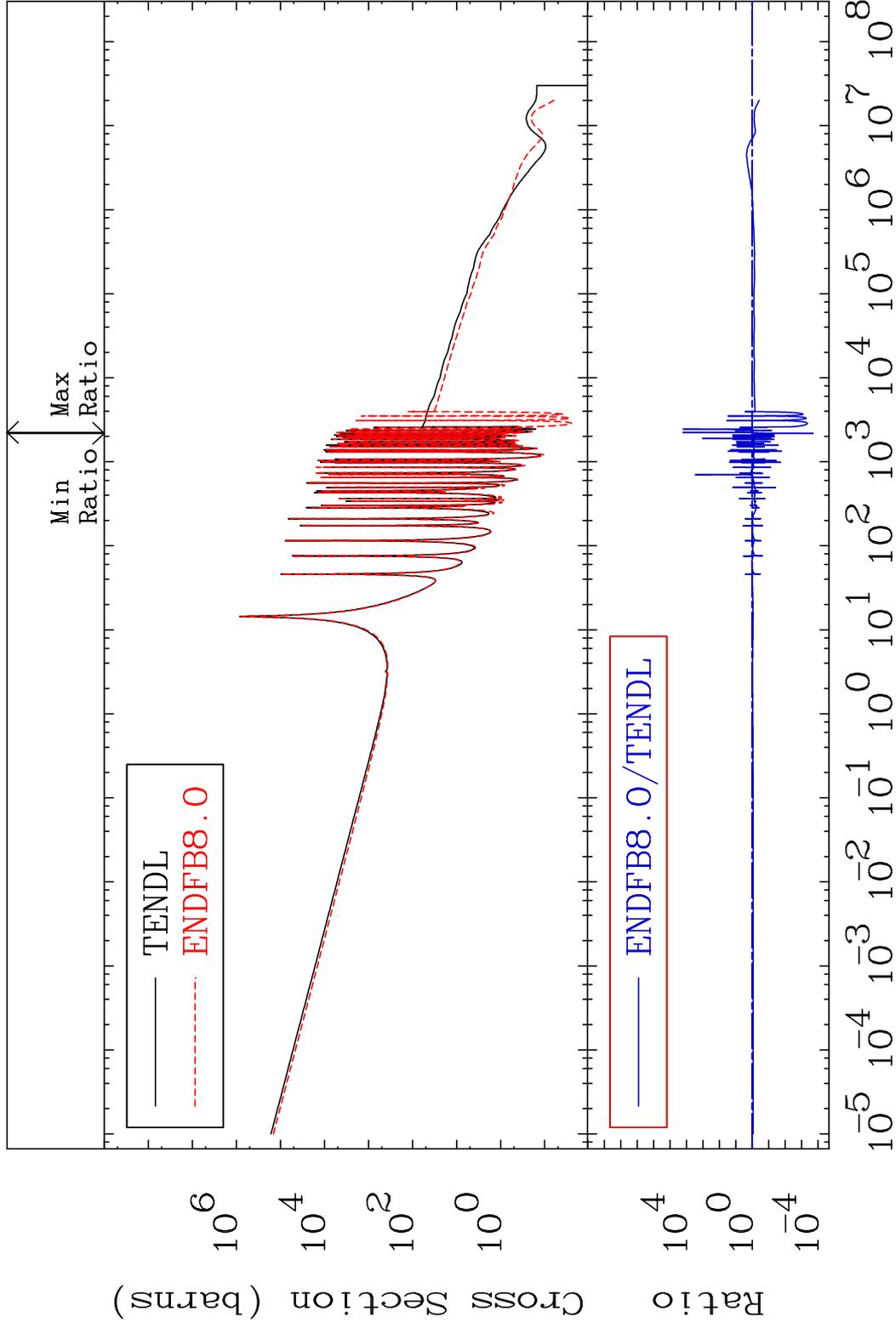


MAT 5446 Kerma fission (mt18 or mt19-20-21-38) 54-Xe-131  
 Cross Section -100.0 To 258.9 %



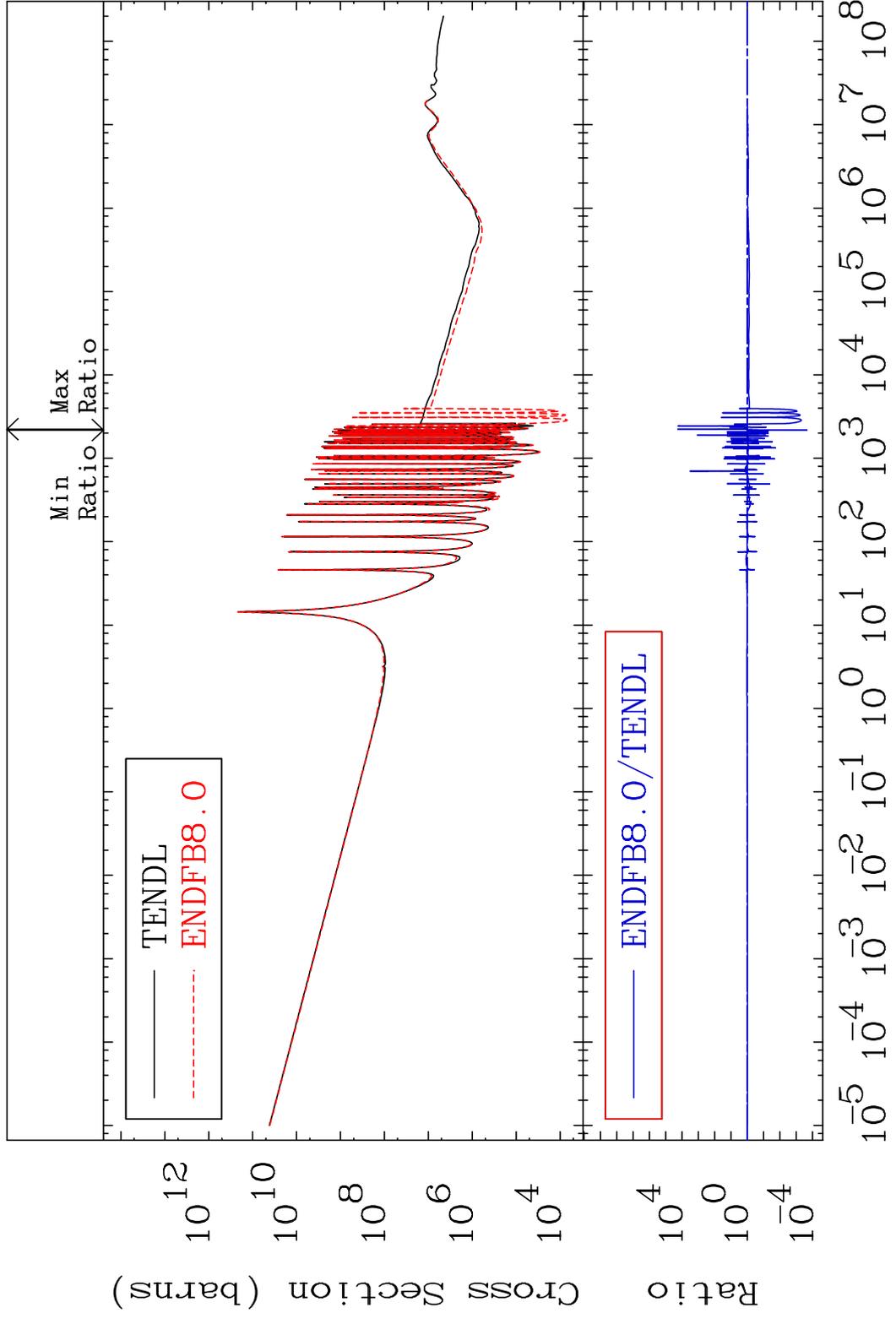
MAT 5446

Kerma capture (mt102) 54-Xe-131  
Cross Section -99.98 To 9999. %

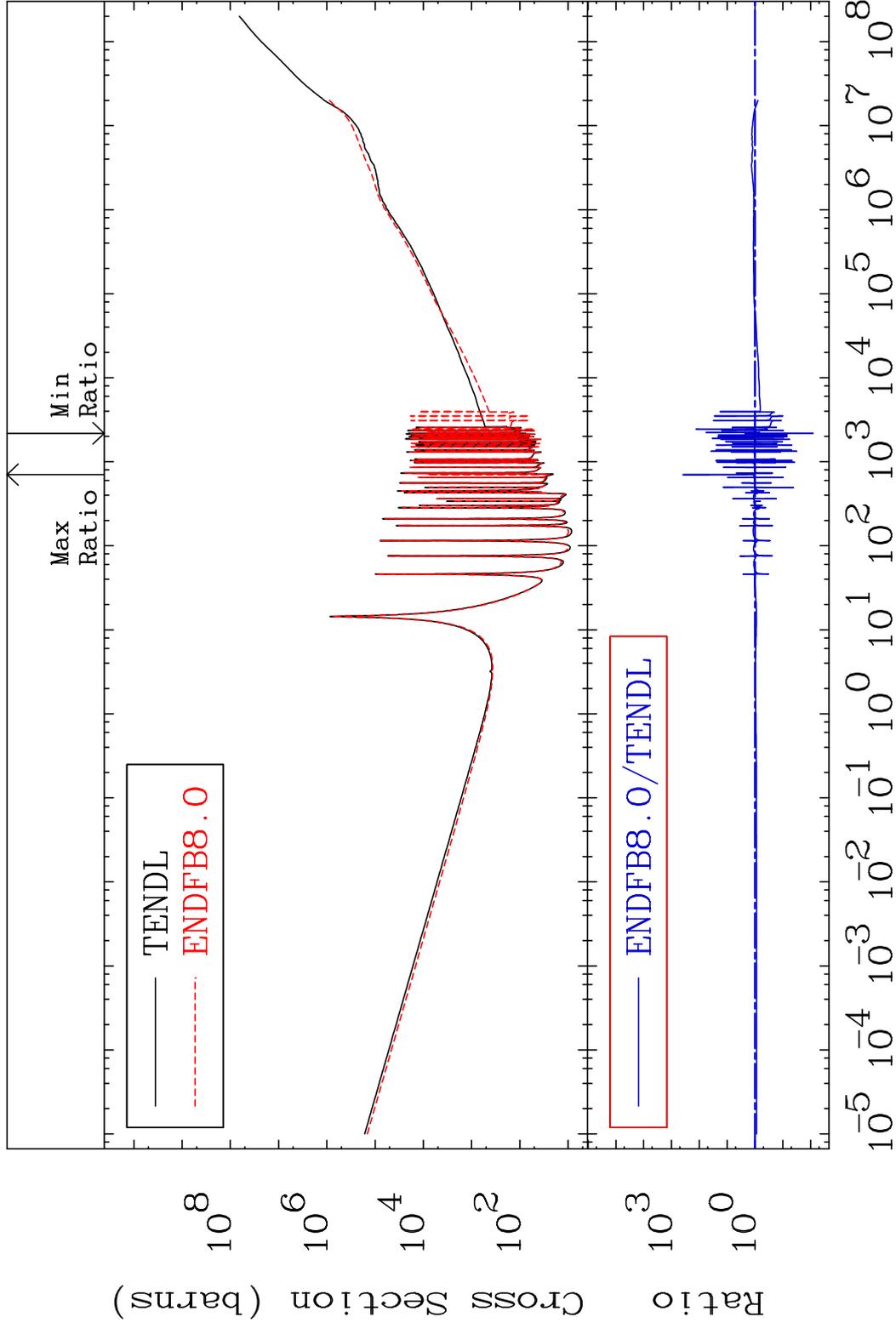


MAT 5446

Total photon (eV-barns) 54-Xe-131  
Cross Section -99.98 To 9999. %



MAT 5446 Total kinematic kerma (high limit) 54-Xe-131  
 Cross Section -99.19 To 9999. %

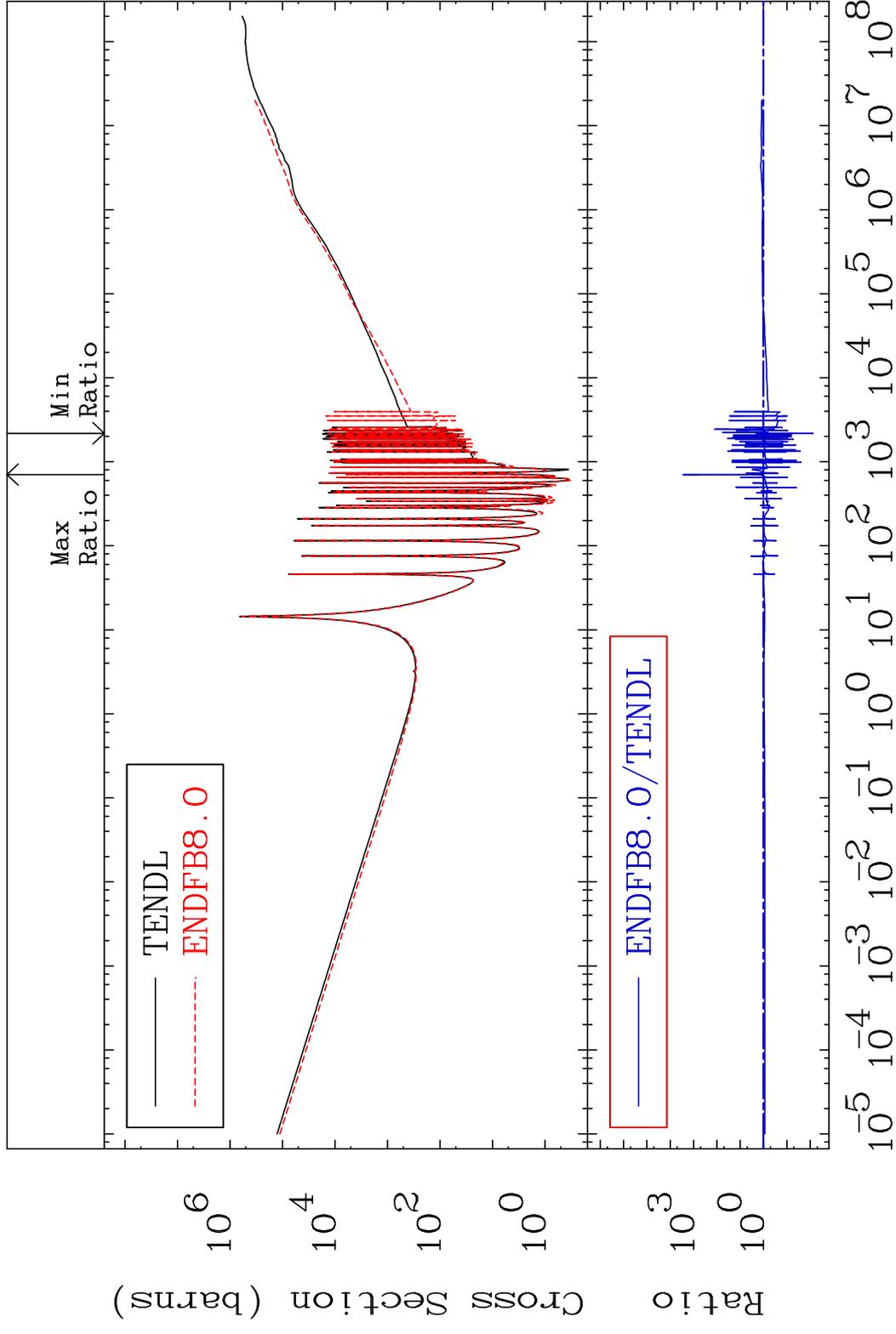


MAT 5446

Dpa total (eV-barns)

54-Xe-131

Cross Section -99.25 To 9999. %



39

Incident Energy (eV)

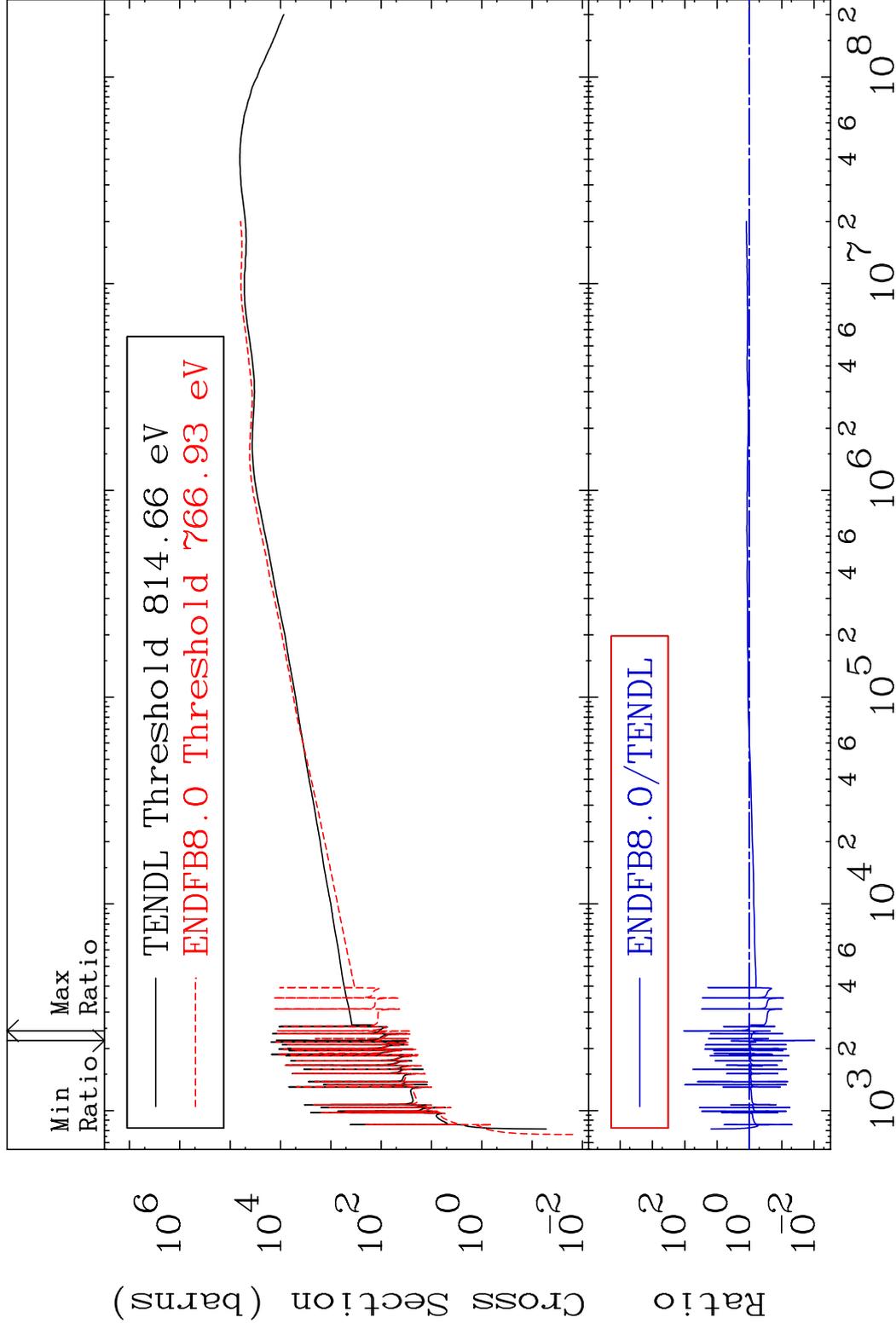
54-Xe-131

MAT 5446

Dpa elastic (mt2)

54-Xe-131

Cross Section -99.04 To 9999. %

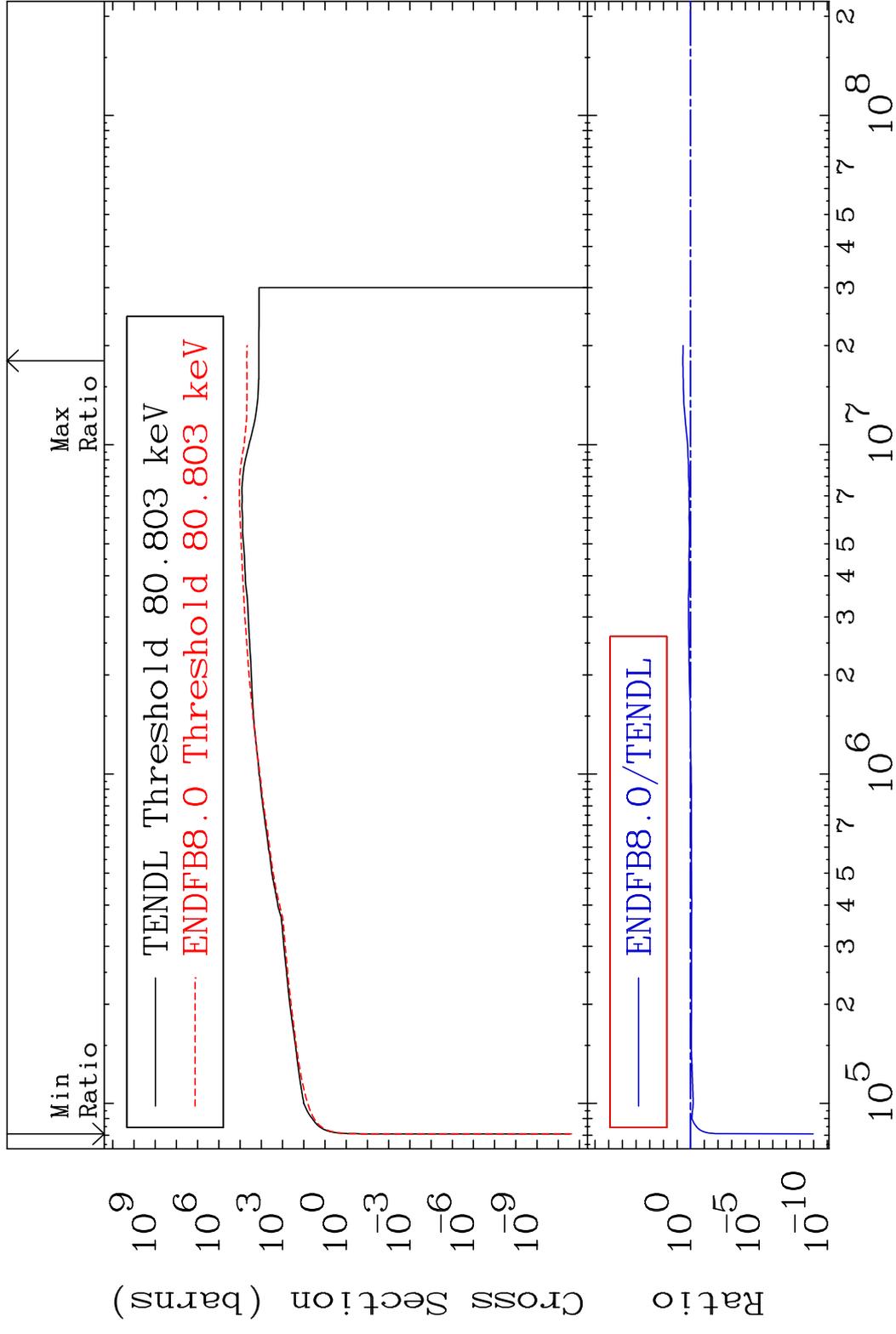


40

Incident Energy (eV)

54-Xe-131

MAT 5446 Dpa inelastic (mt51-91) 54-Xe-131  
 Cross Section -100.0 To 278.7 %



MAT 5446 Dpa disappearance (mt102 -120) 54-Xe-131  
 Cross Section -99.98 To 9999. %

