

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

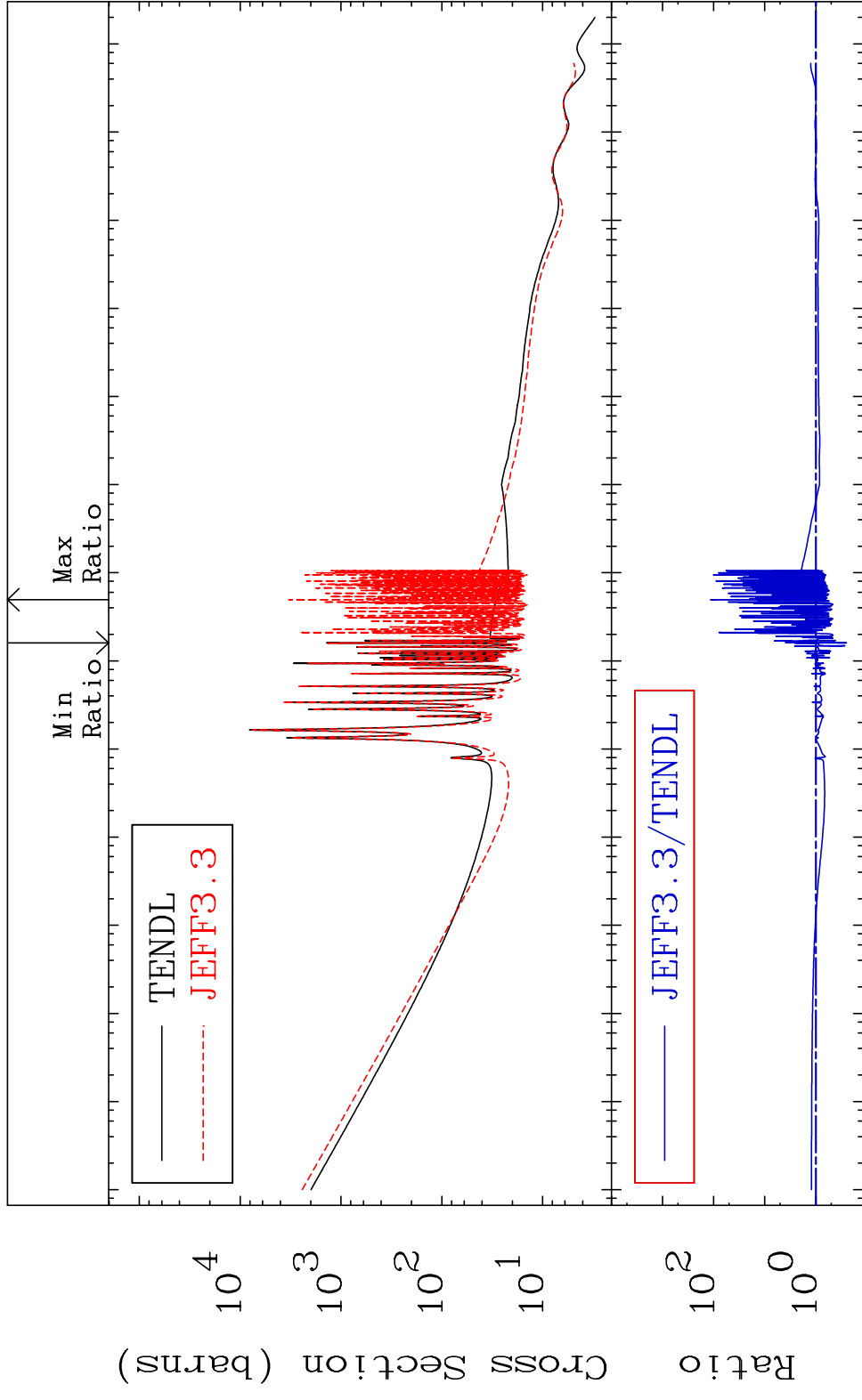
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 9137

Total Cross Section -74.63 To 9999. %

91-Pa-233



10<sup>4</sup>  
10<sup>3</sup>  
10<sup>2</sup>  
10<sup>1</sup>  
10<sup>0</sup>  
10<sup>-1</sup>  
10<sup>-2</sup>  
10<sup>-3</sup>  
10<sup>-4</sup>  
10<sup>-5</sup>

10<sup>8</sup>  
10<sup>7</sup>  
10<sup>6</sup>  
10<sup>5</sup>  
10<sup>4</sup>  
10<sup>3</sup>  
10<sup>2</sup>  
10<sup>1</sup>  
10<sup>0</sup>  
10<sup>-1</sup>  
10<sup>-2</sup>  
10<sup>-3</sup>  
10<sup>-4</sup>  
10<sup>-5</sup>

1 Incident Energy (eV) 91-Pa-233

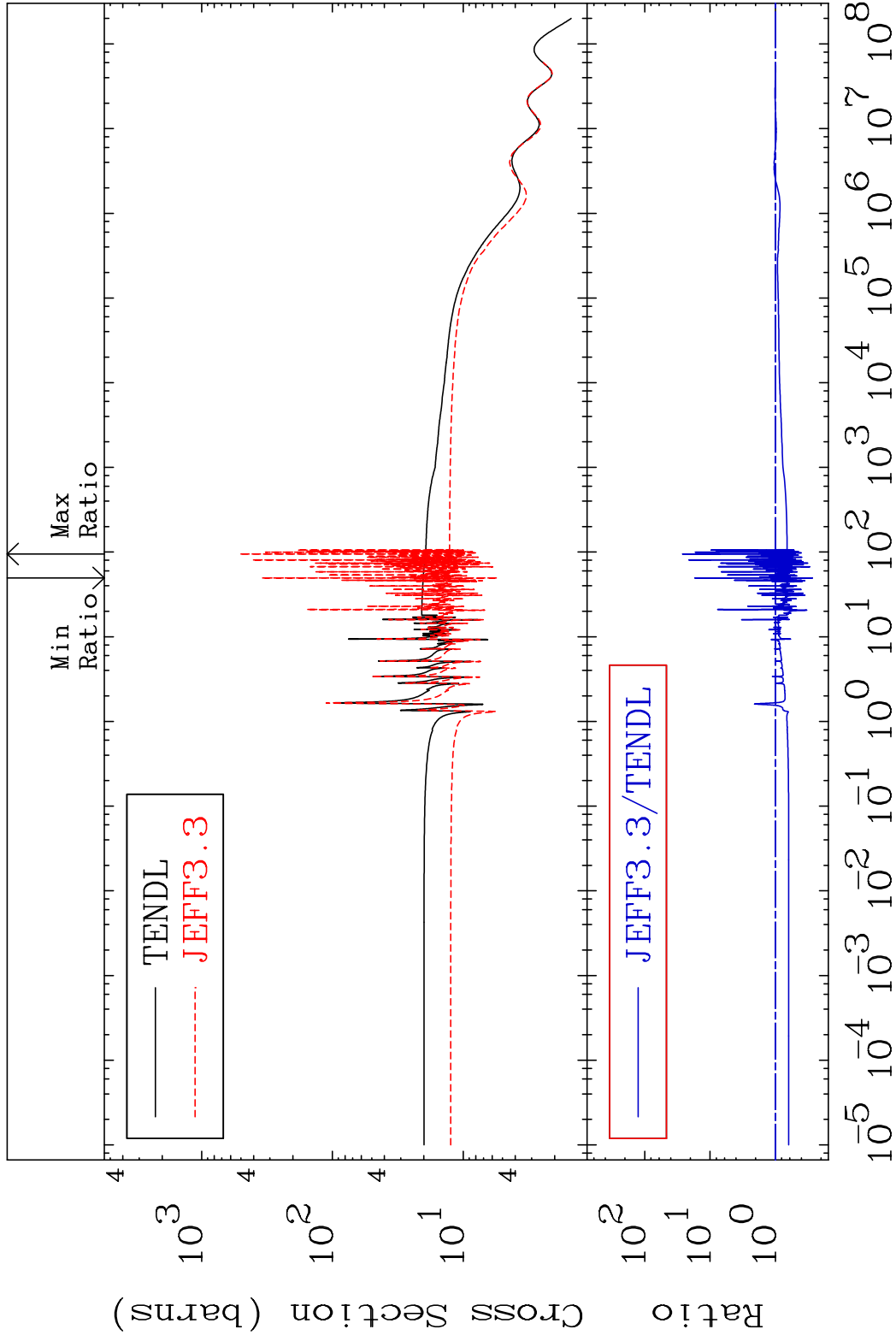
MAT 9137

Elastic

91-Pa-233

Cross Section

-73.06 To 2551. %



2

Incident Energy (eV)

91-Pa-233

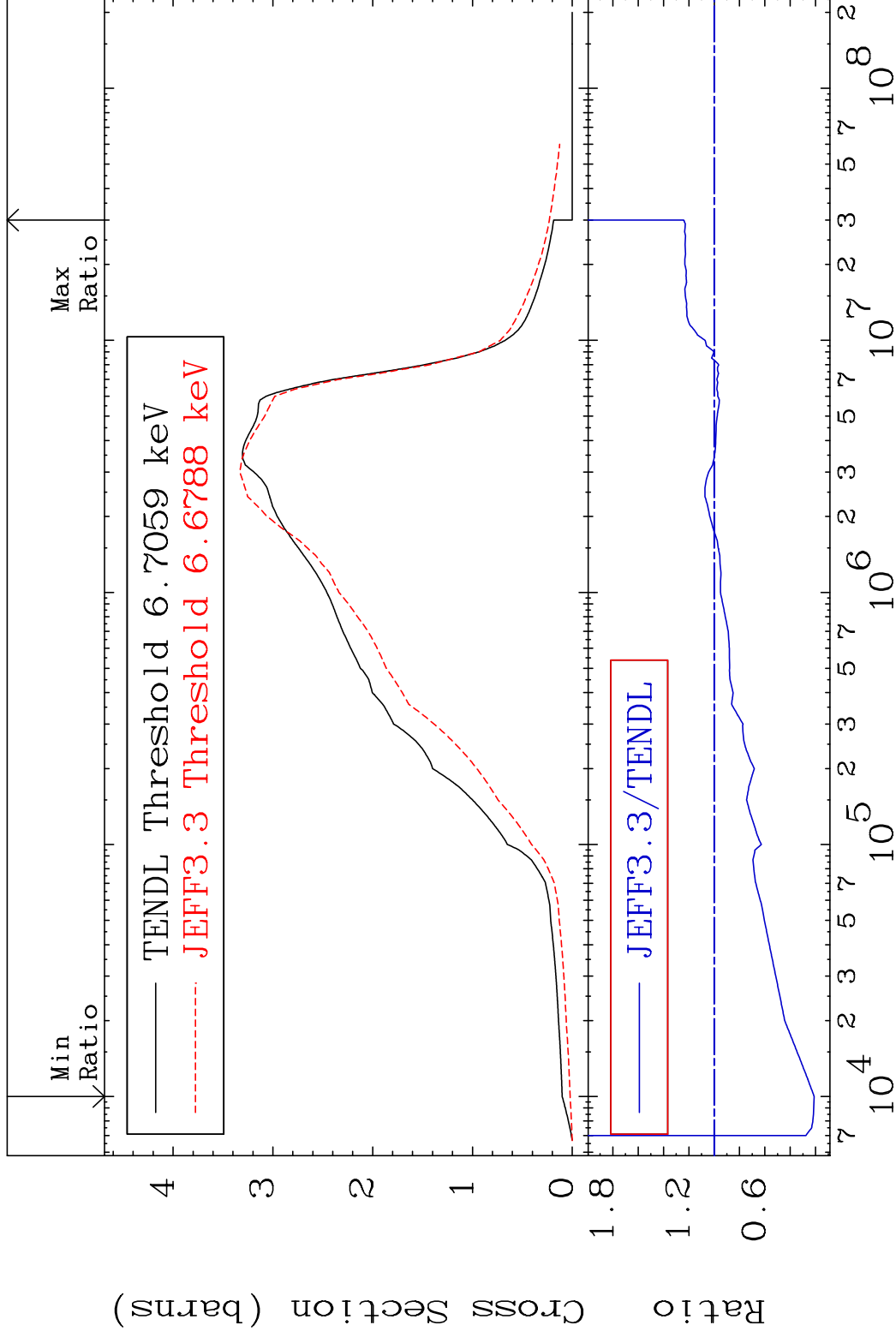
MAT 9137

Inelastic

91-Pa-233

Cross Section

-78.82 To 24.09 %



3

Incident Energy (eV)

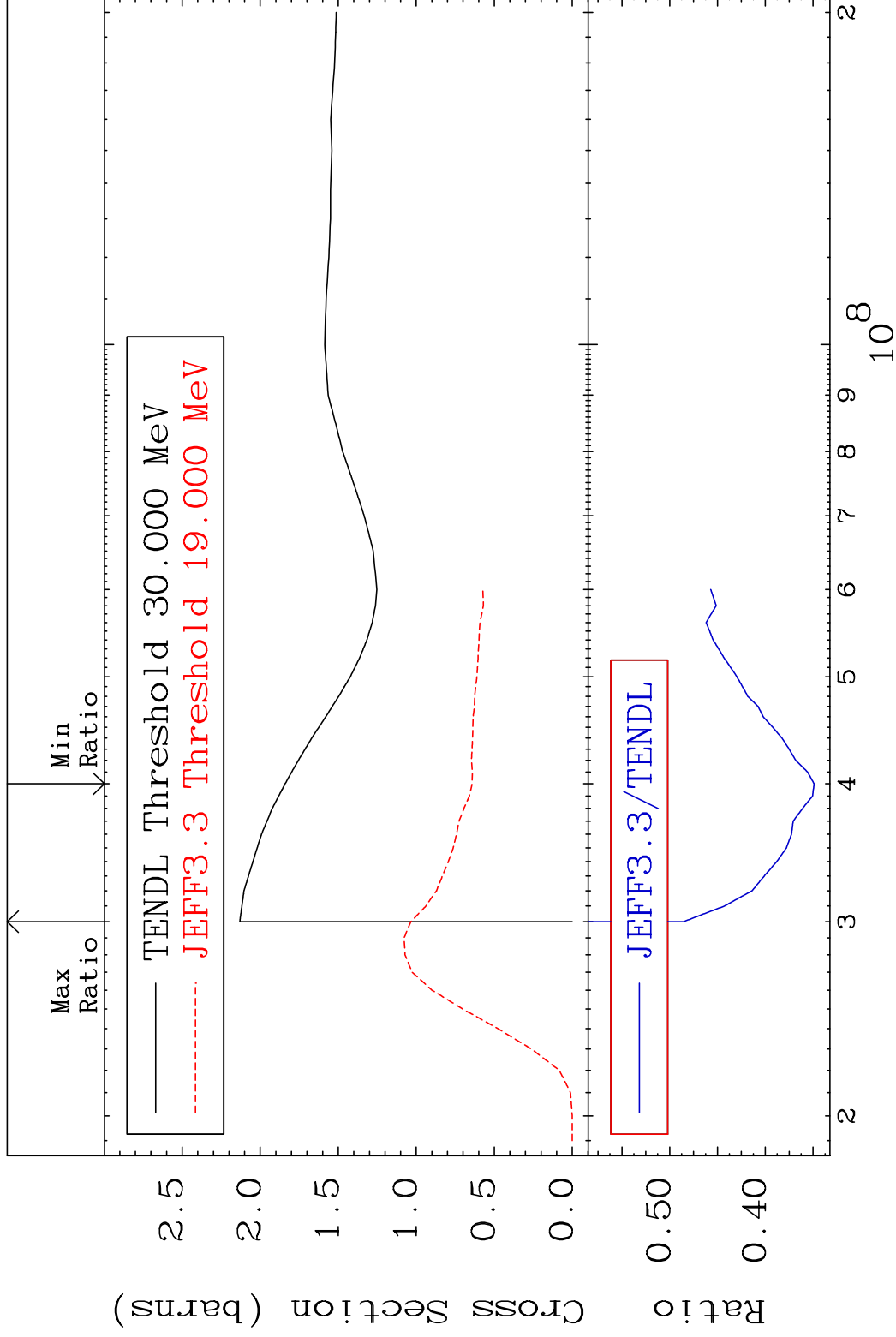
91-Pa-233

MAT 9137

(n, remainder)

91-Pa-233

Cross Section -65.11 To -51.46%



4

Incident Energy (eV)

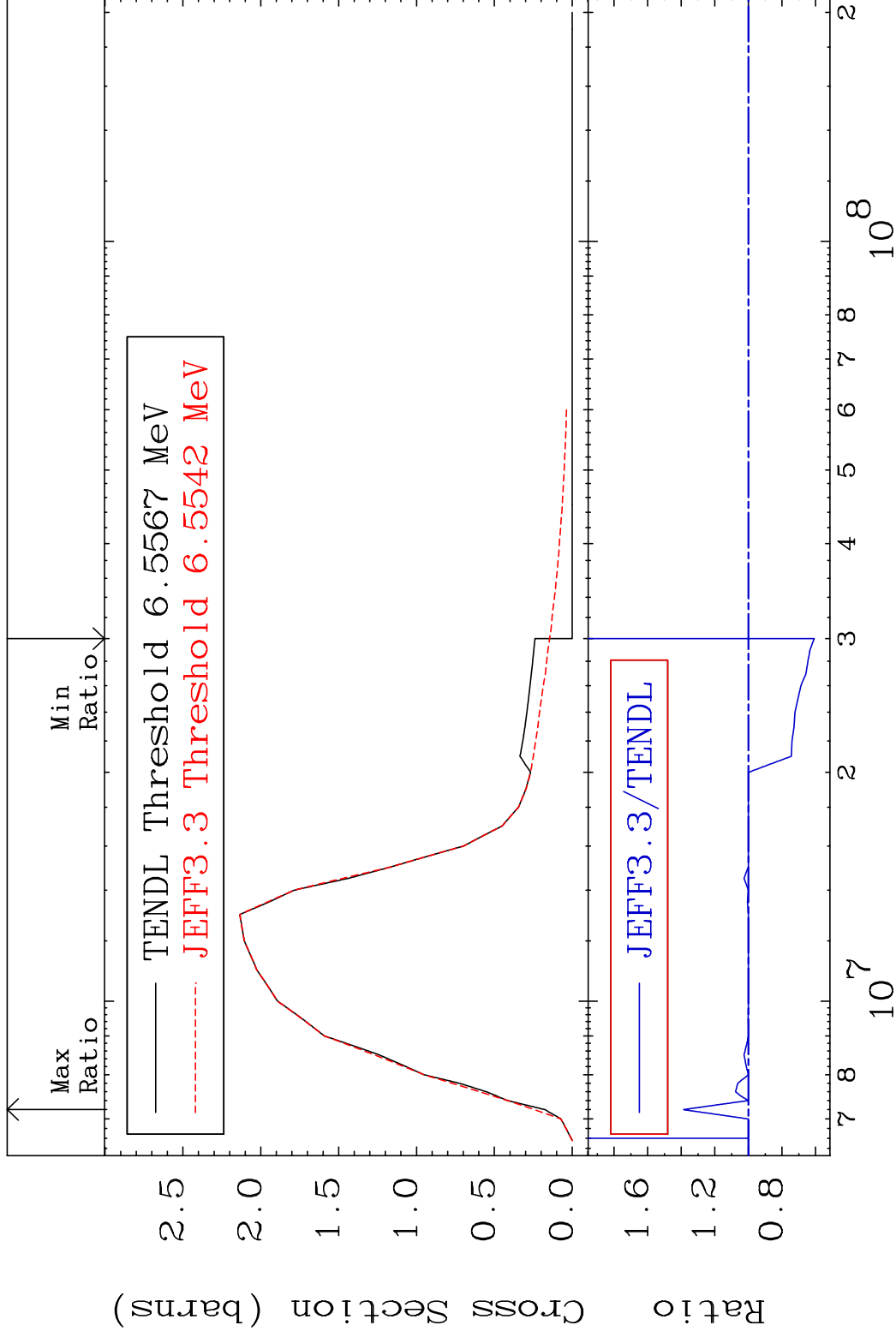
91-Pa-233

MAT 9137

(n,2n)

91-Pa-233

Cross Section -39.15 To 38.54 %



5

Incident Energy (eV)

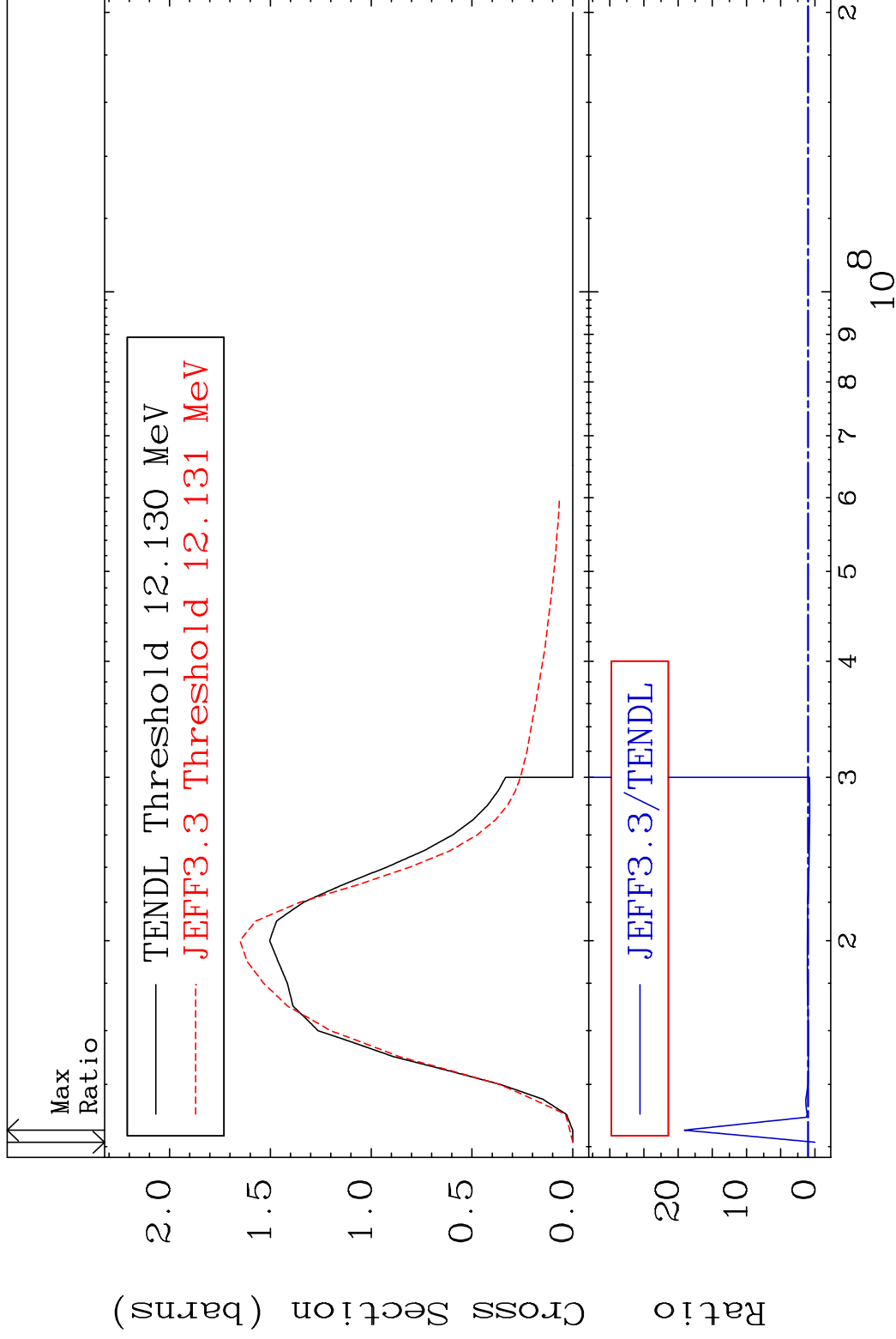
91-Pa-233

MAT 9137

(n,3n)

91-Pa-233

Cross Section -100.0 To 1809. %



6

Incident Energy (eV)

91-Pa-233

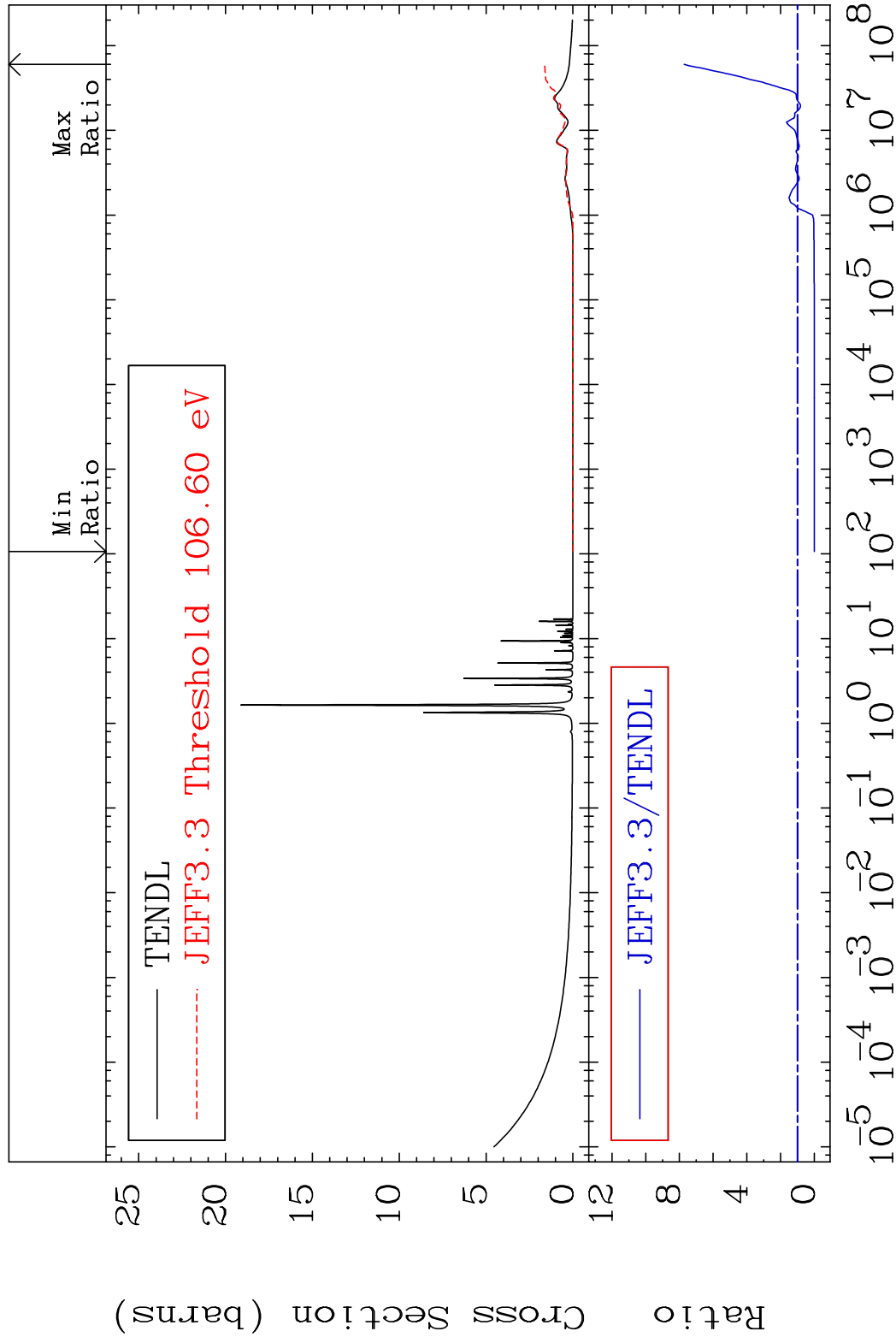
MAT 9137

Fission

91-Pa-233

Cross Section

-100.0 To 672.4 %



7

Incident Energy (eV)

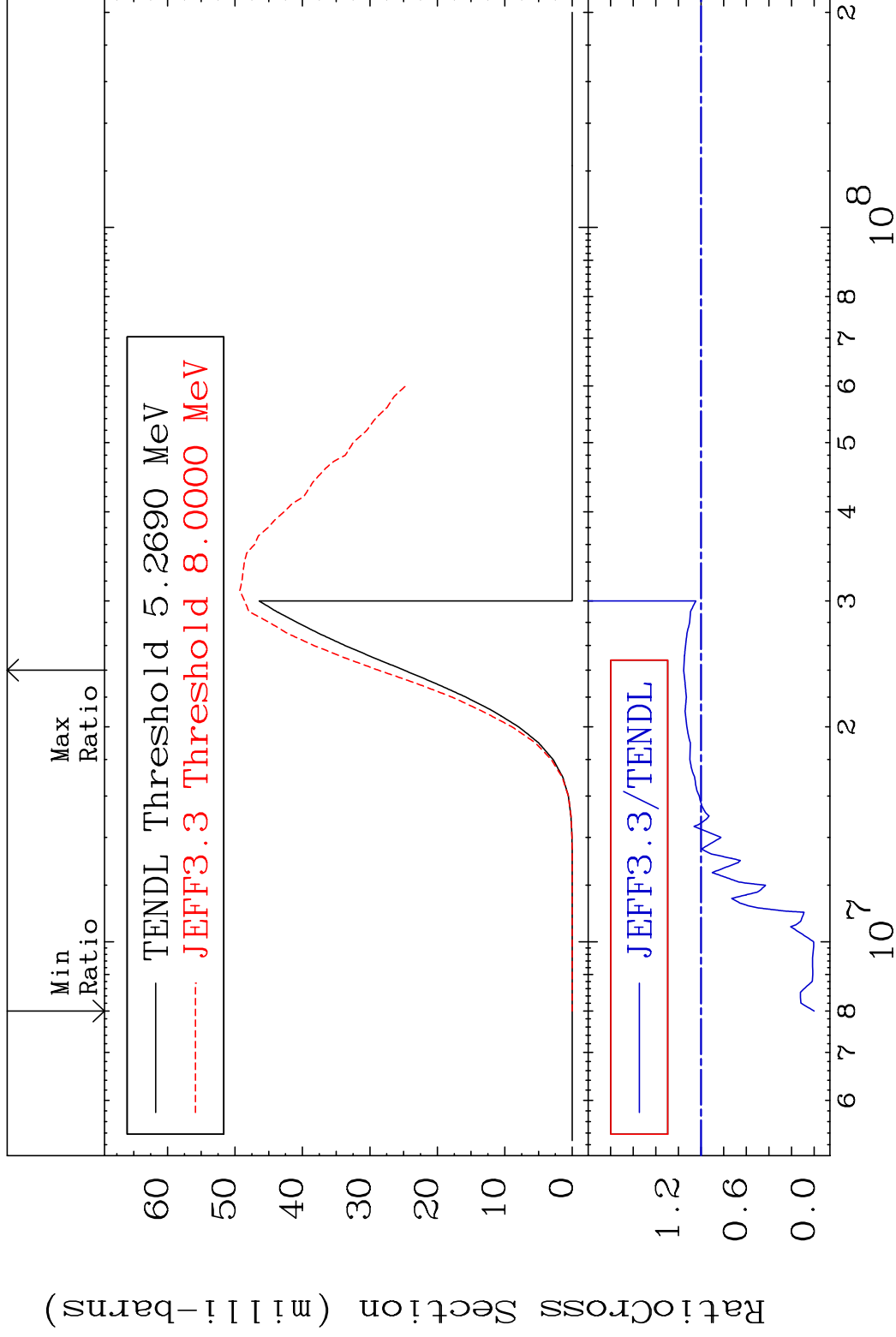
91-Pa-233

MAT 9137

(n, n') p

91-Pa-233

Cross Section -100.0 To 15.32 %



8

Incident Energy (eV)

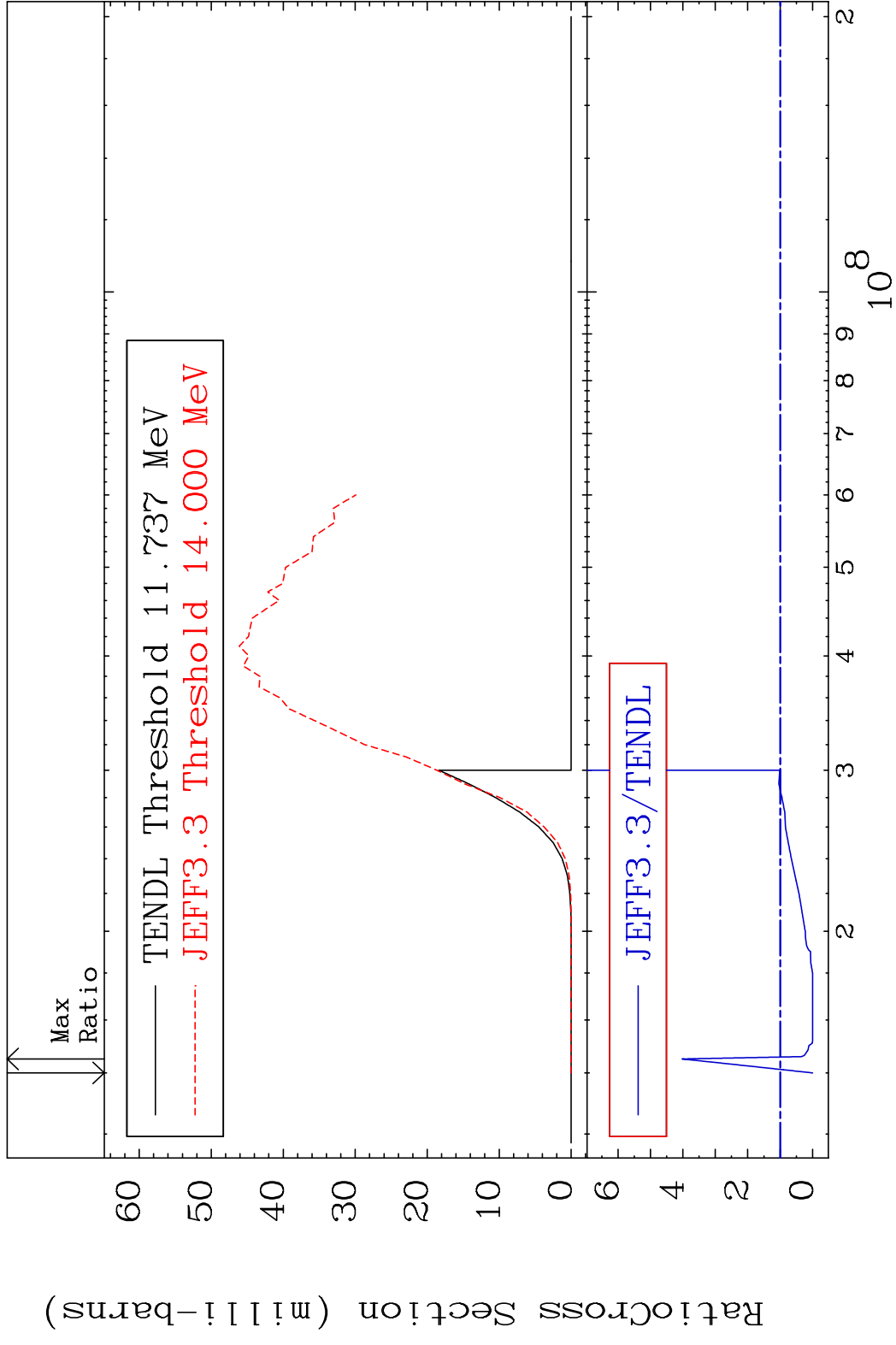
91-Pa-233

MAT 9137

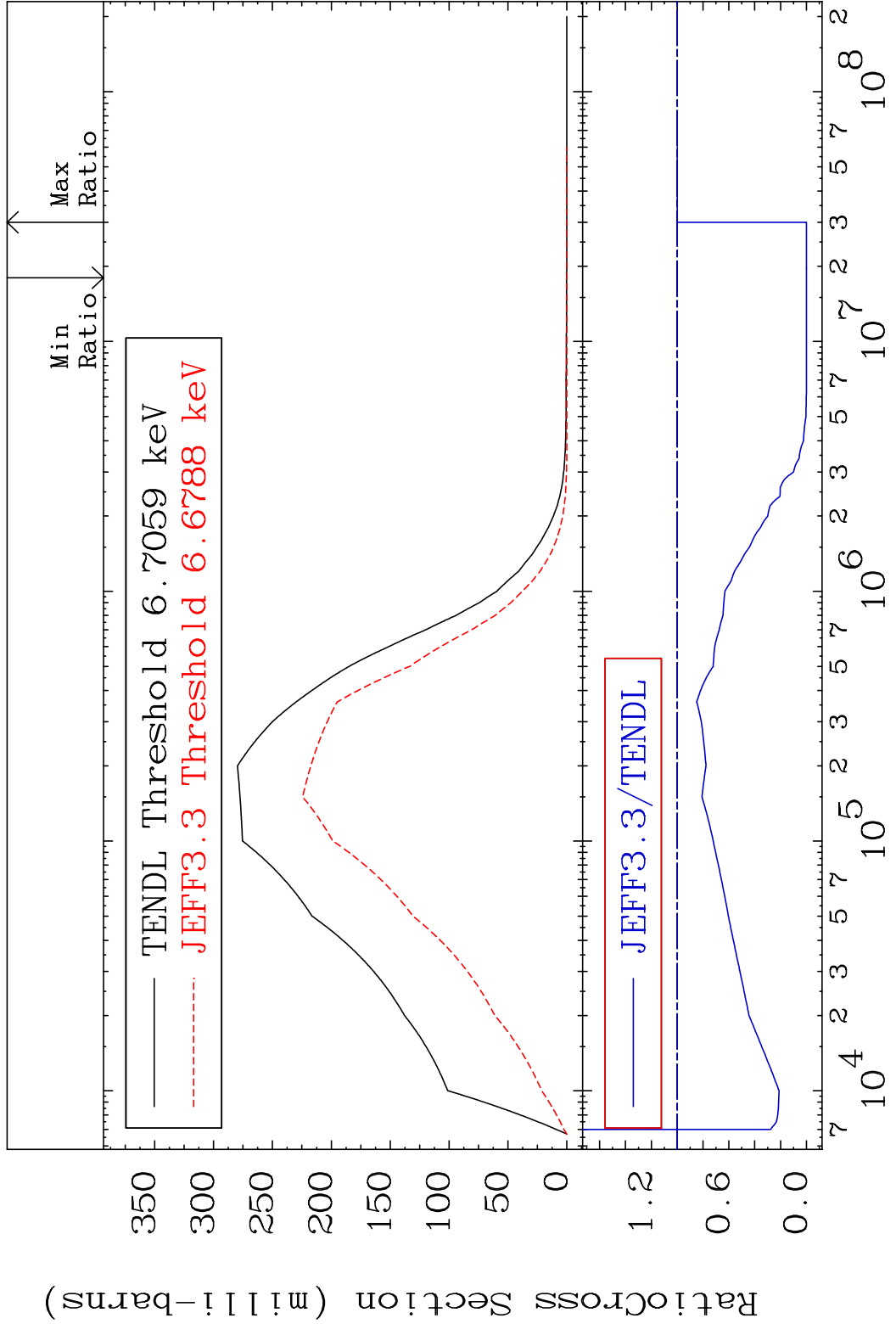
(n,2n) p

91-Pa-233

Cross Section -100.0 To 301.6 %

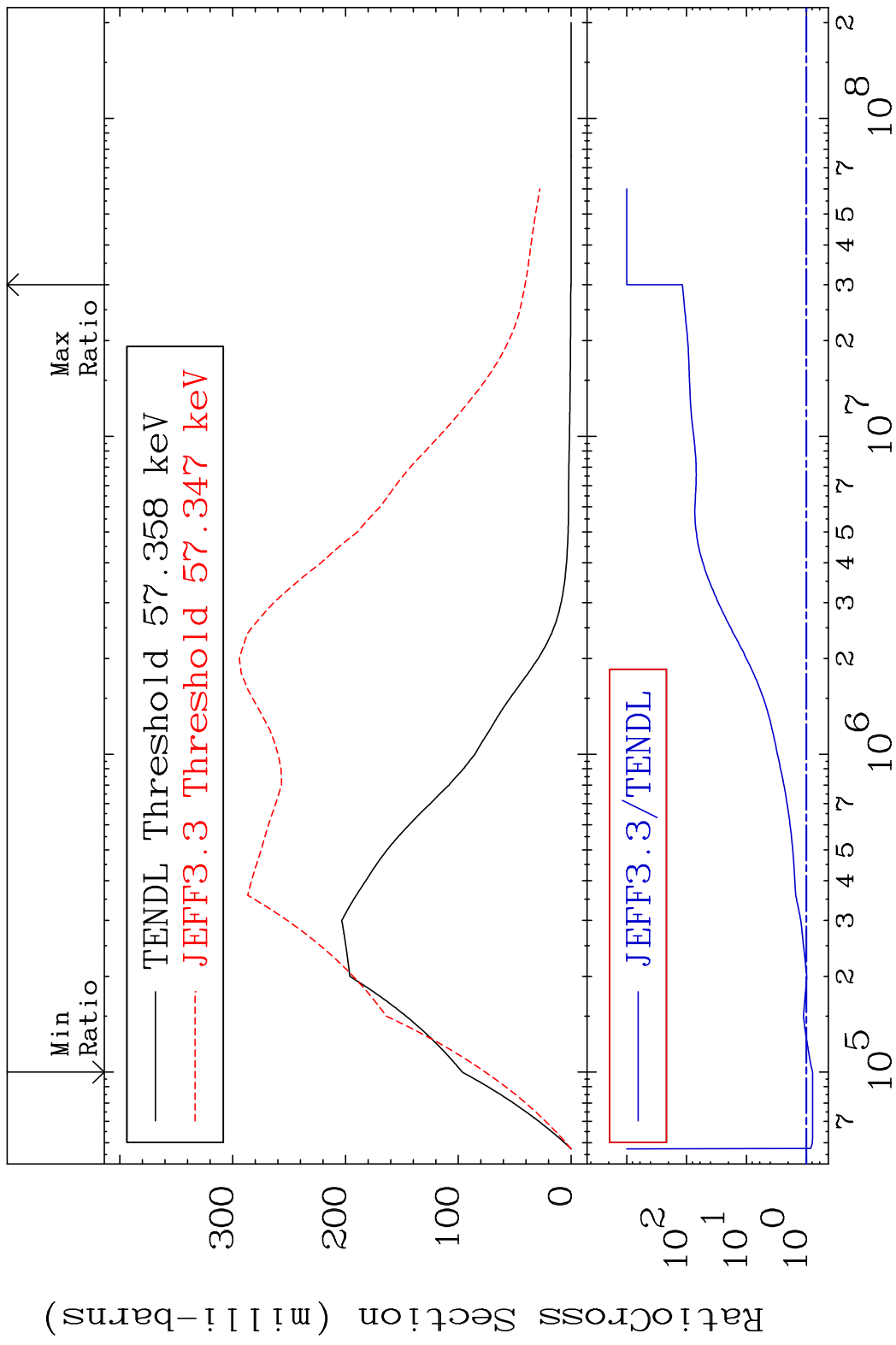


MAT 9137 MT= 51 (n,n') Level 91-Pa-233  
 Cross Section -100.0 To 0.000 %

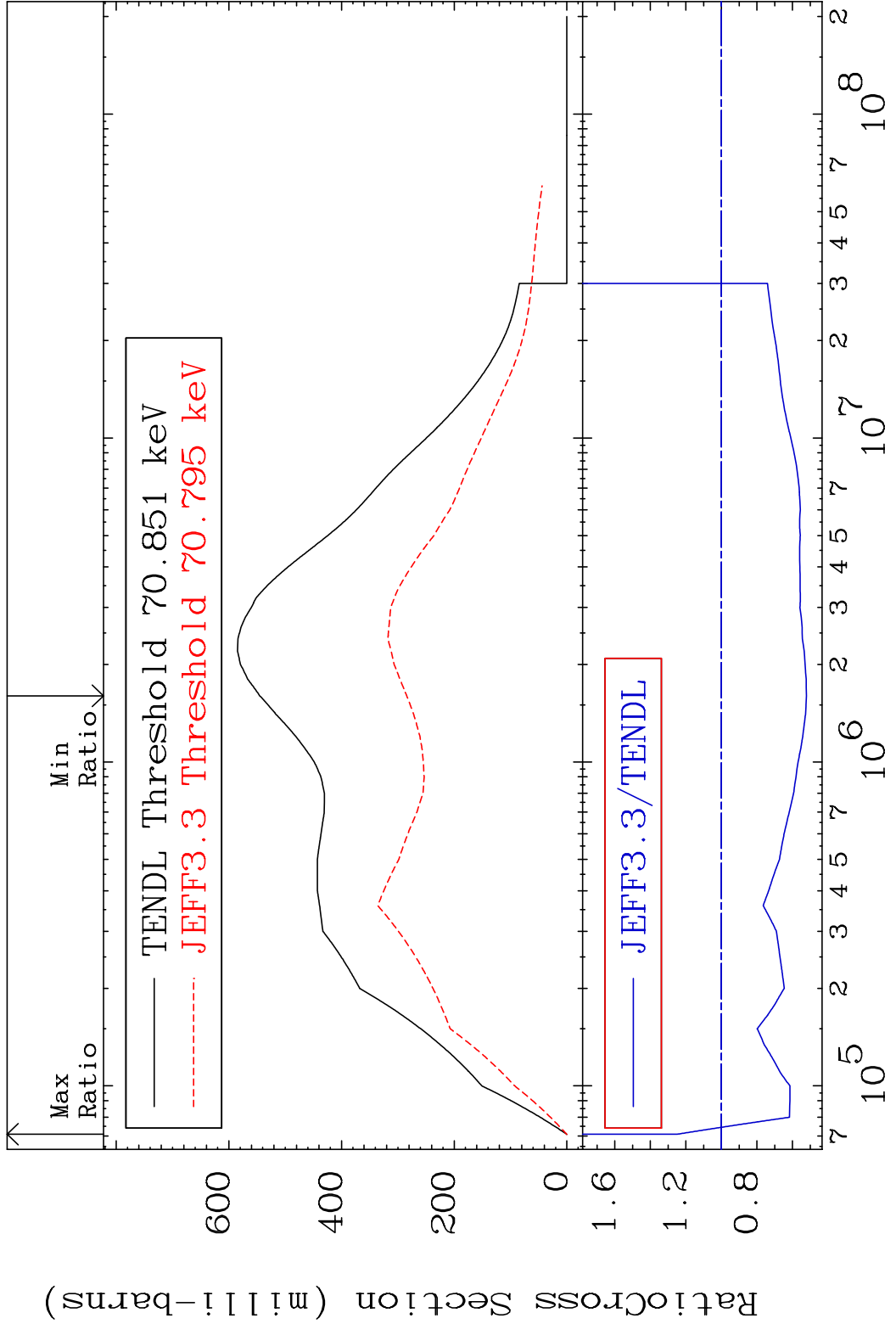


10 Incident Energy (eV) 91-Pa-233

MAT 9137 MT= 52 (n, n') Level 91-Pa-233  
 Cross Section -21.23 To 9999. %



MAT 9137 MT= 53 (n, n') Level 91-Pa-233  
 Cross Section -47.84 To 24.88 %

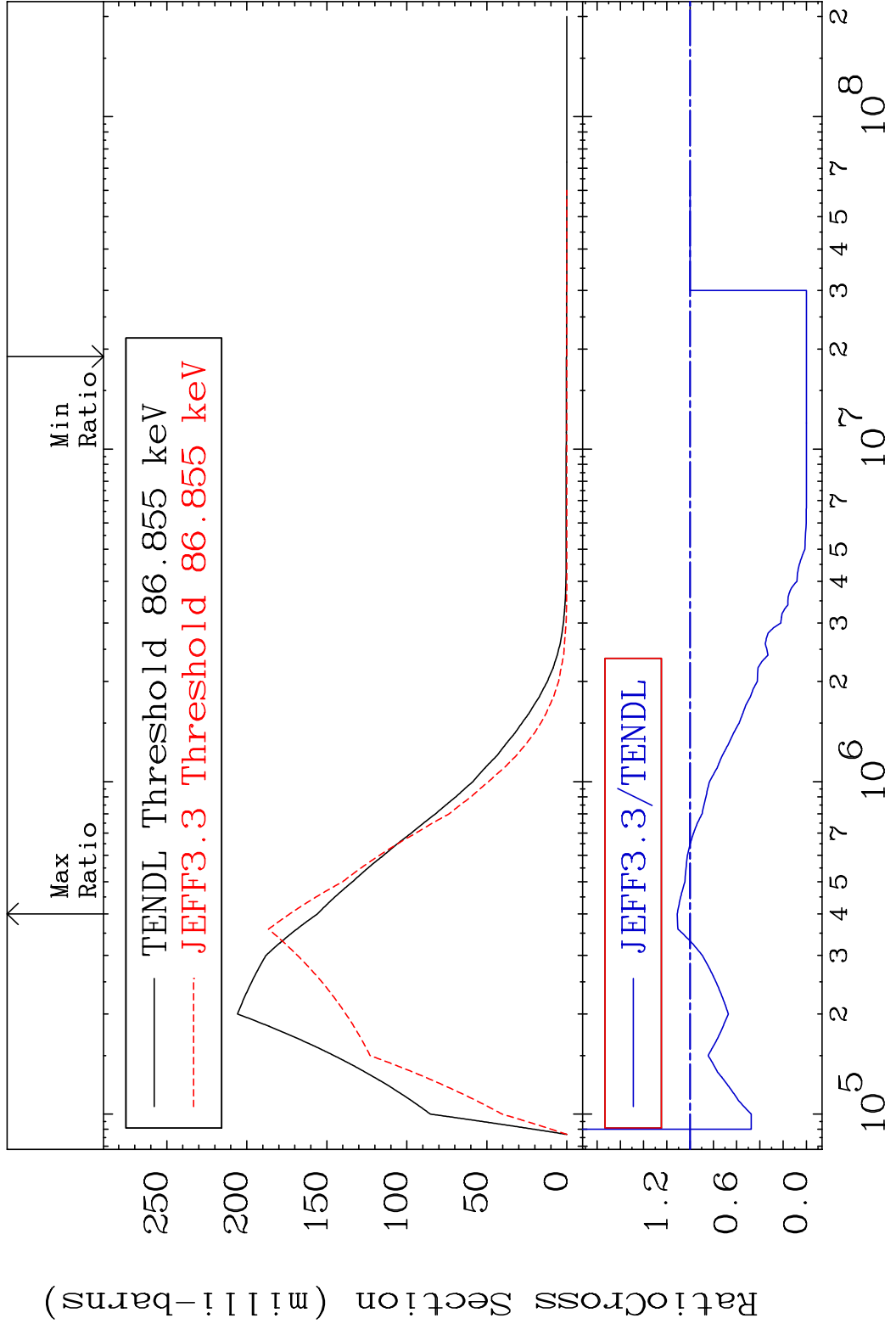


MAT 9137

MT= 54 (n,n') Level

91-Pa-233

Cross Section -100.0 To 11.10 %



13

Incident Energy (eV)

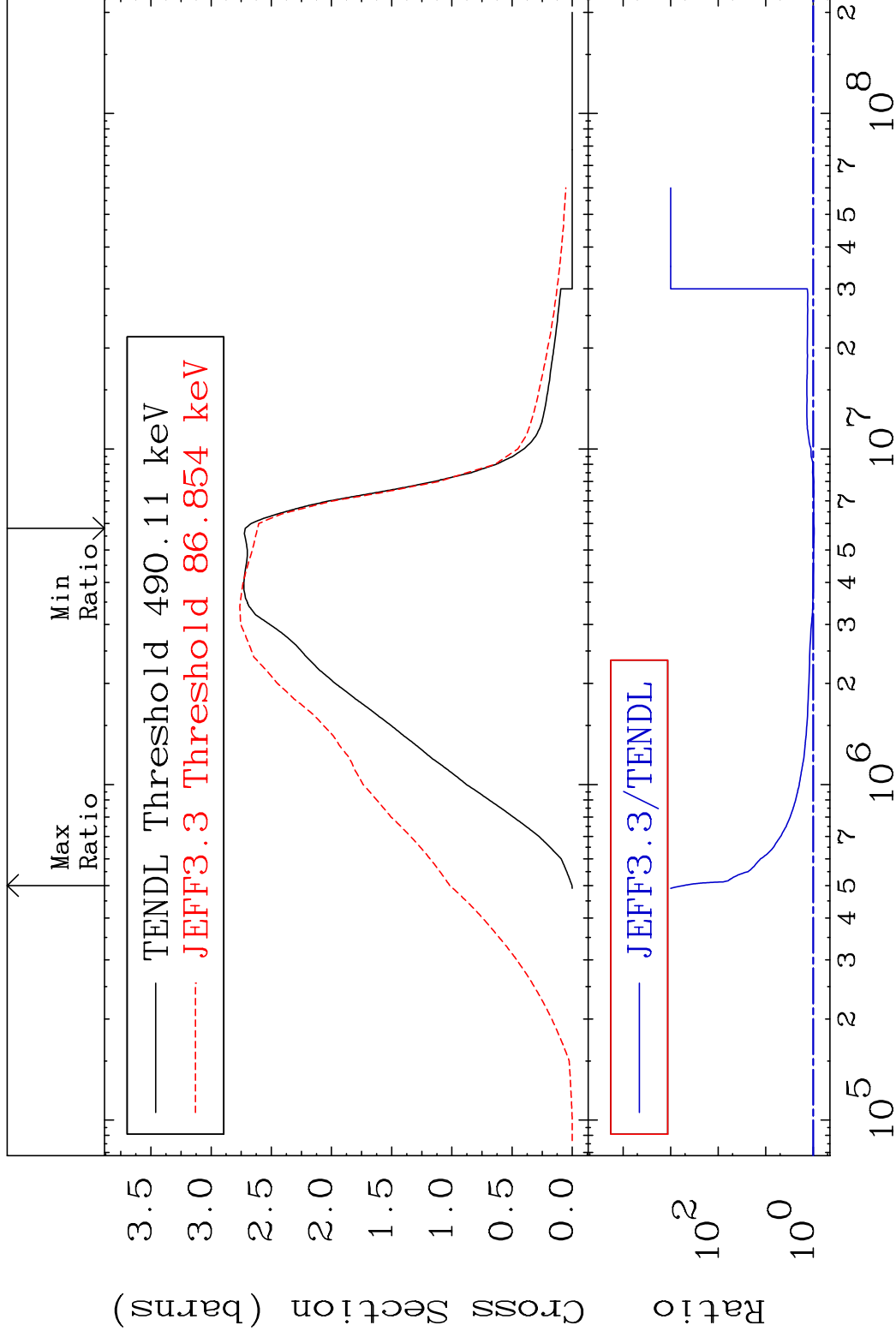
91-Pa-233

MAT 9137

(n, n') Continuum

91-Pa-233

Cross Section -3.764 To 9999. %



14

Incident Energy (eV)

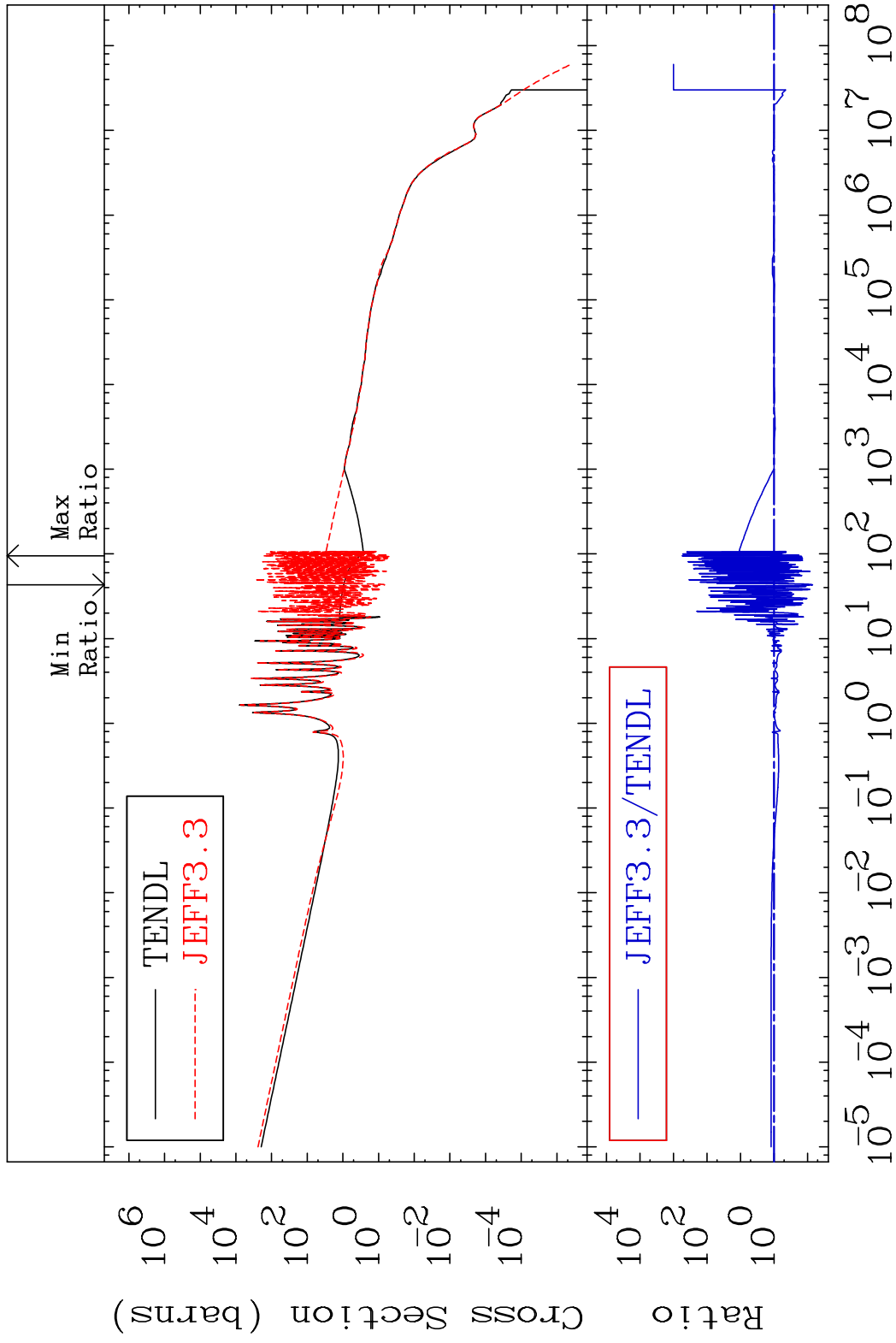
91-Pa-233

MAT 9137

(n,  $\gamma$ )

91-Pa-233

Cross Section -92.93 To 9999. %



15

Incident Energy (eV)

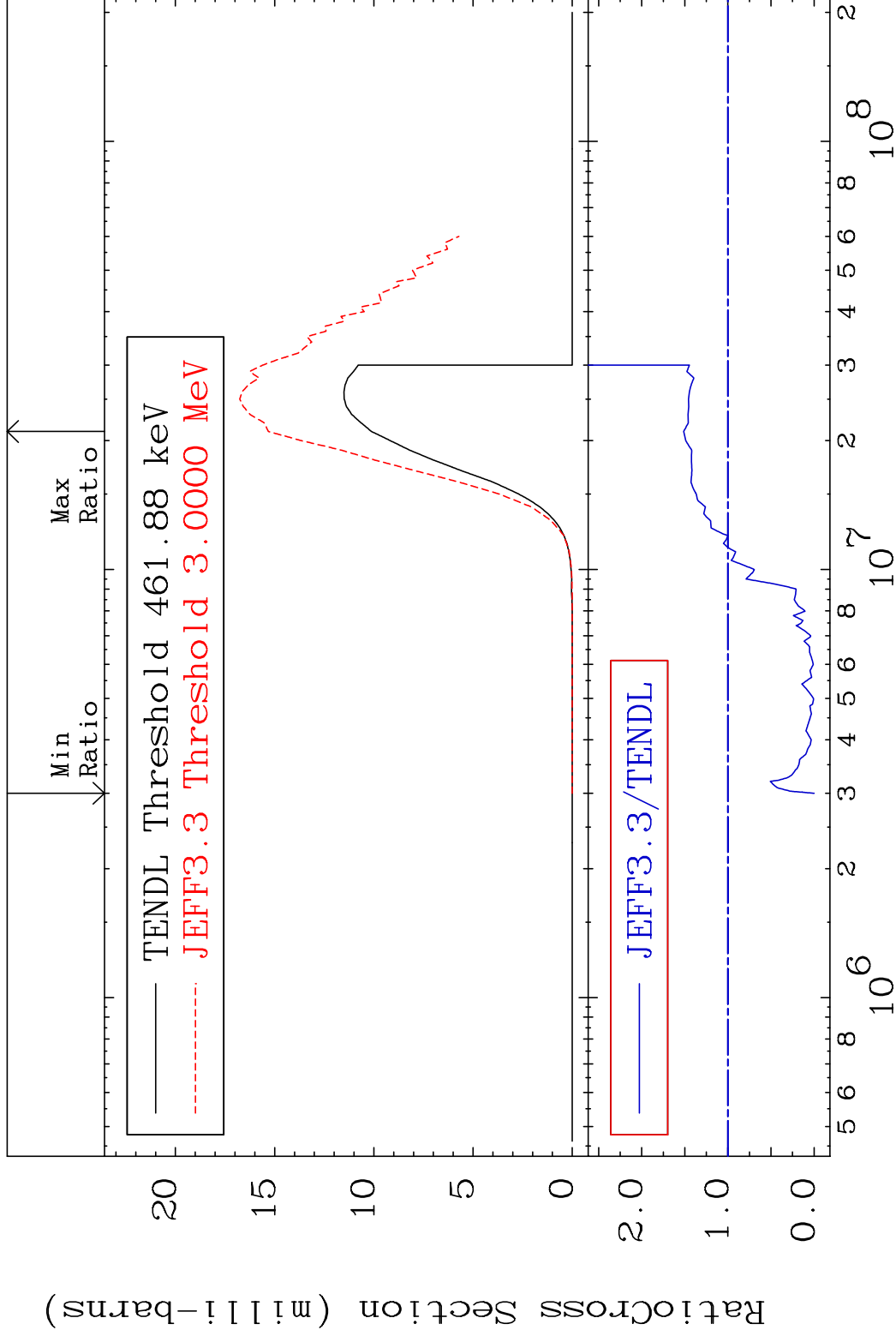
91-Pa-233

MAT 9137

(n, p)

91-Pa-233

Cross Section -100.0 To 51.32 %



16

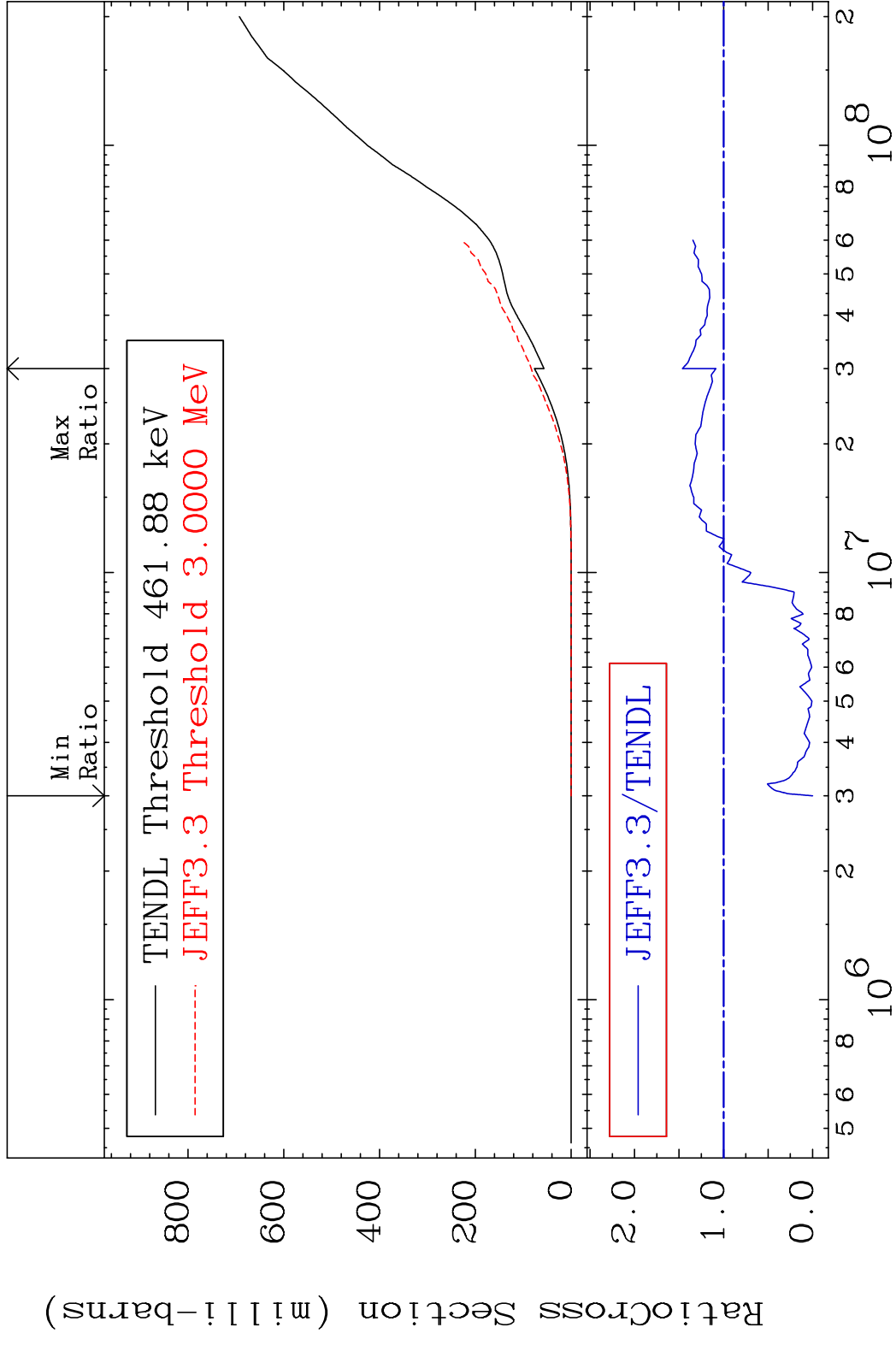
Incident Energy (eV)

91-Pa-233

MAT 9137

Hydrogen Production  
Cross Section -100.0 To 46.31 %

91-Pa-233

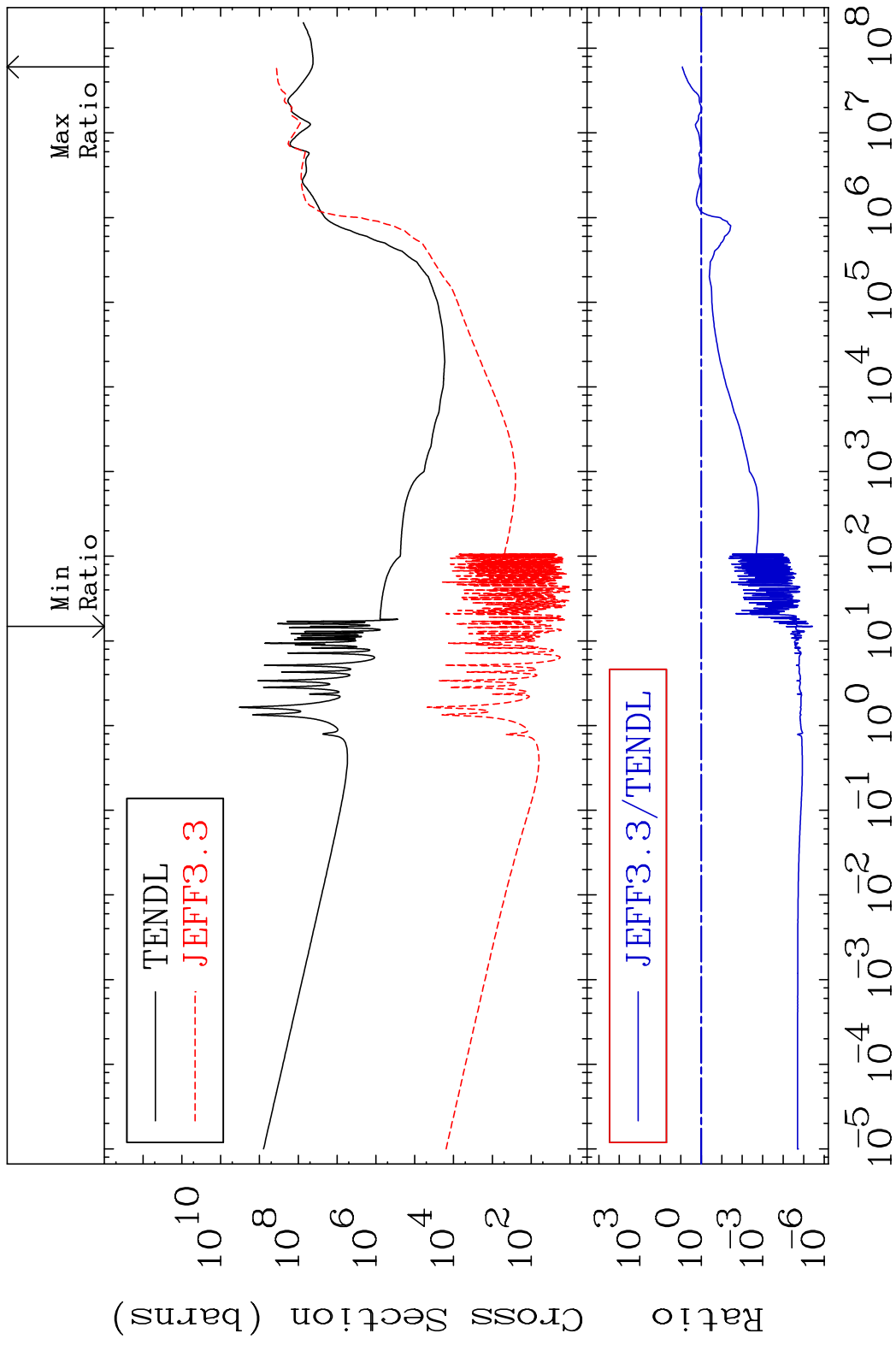


17

Incident Energy (eV)

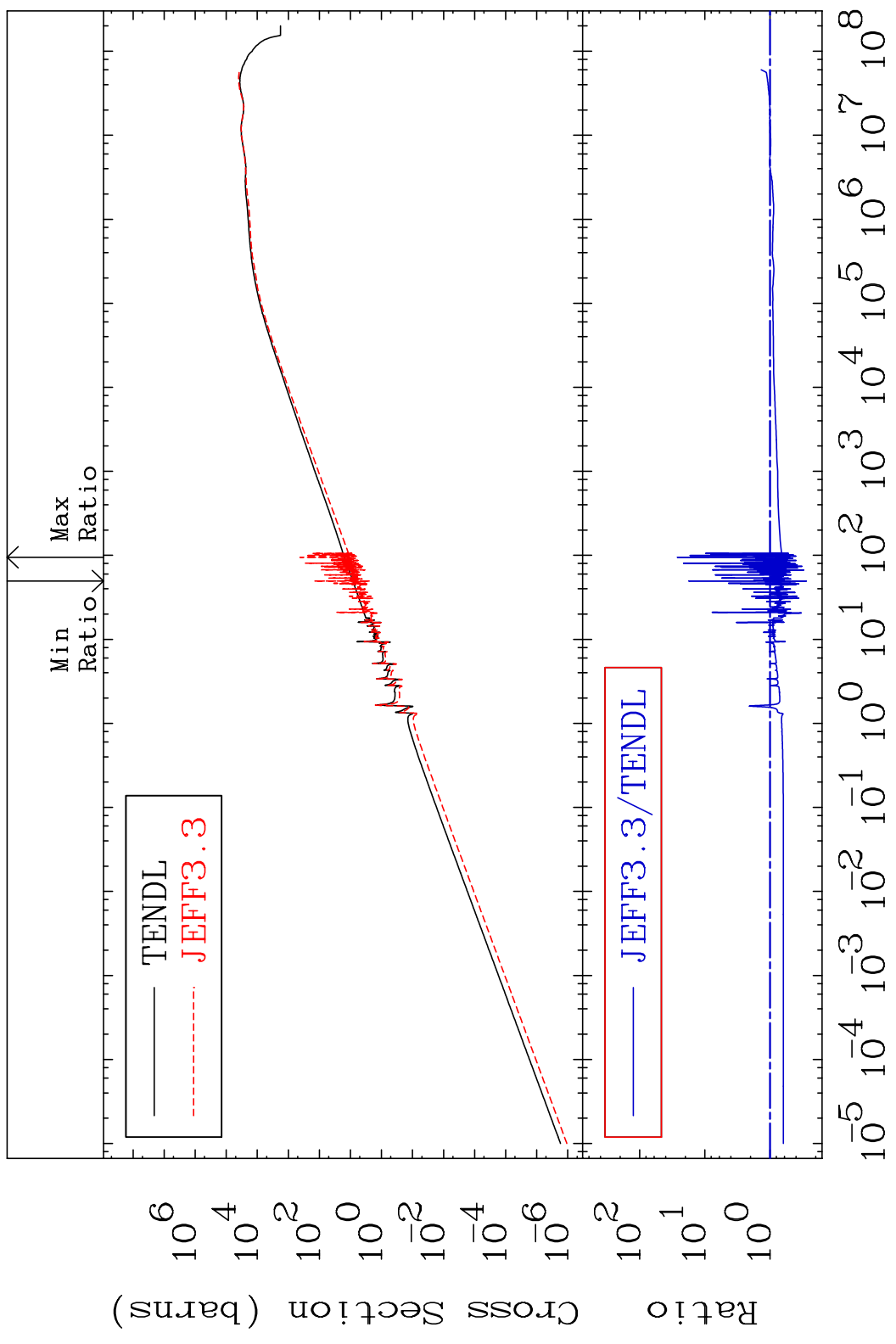
91-Pa-233

MAT 9137 Kerma total (eV-barns) 91-Pa-233  
 Cross Section -100.0 To 737.6 %

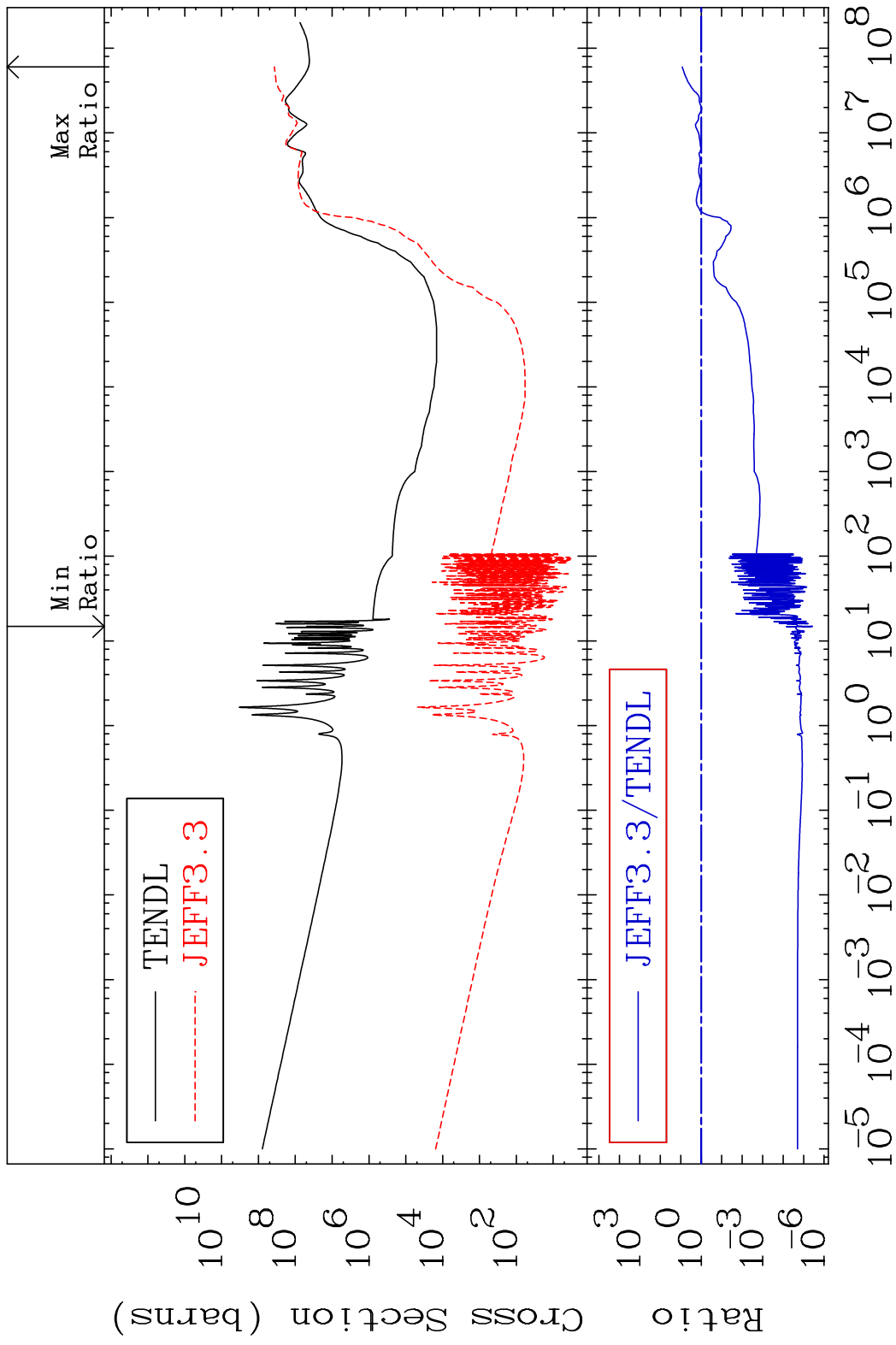


MAT 9137

Kerma elastic Cross Section -72.28 To 2561. %  
91-Pa-233

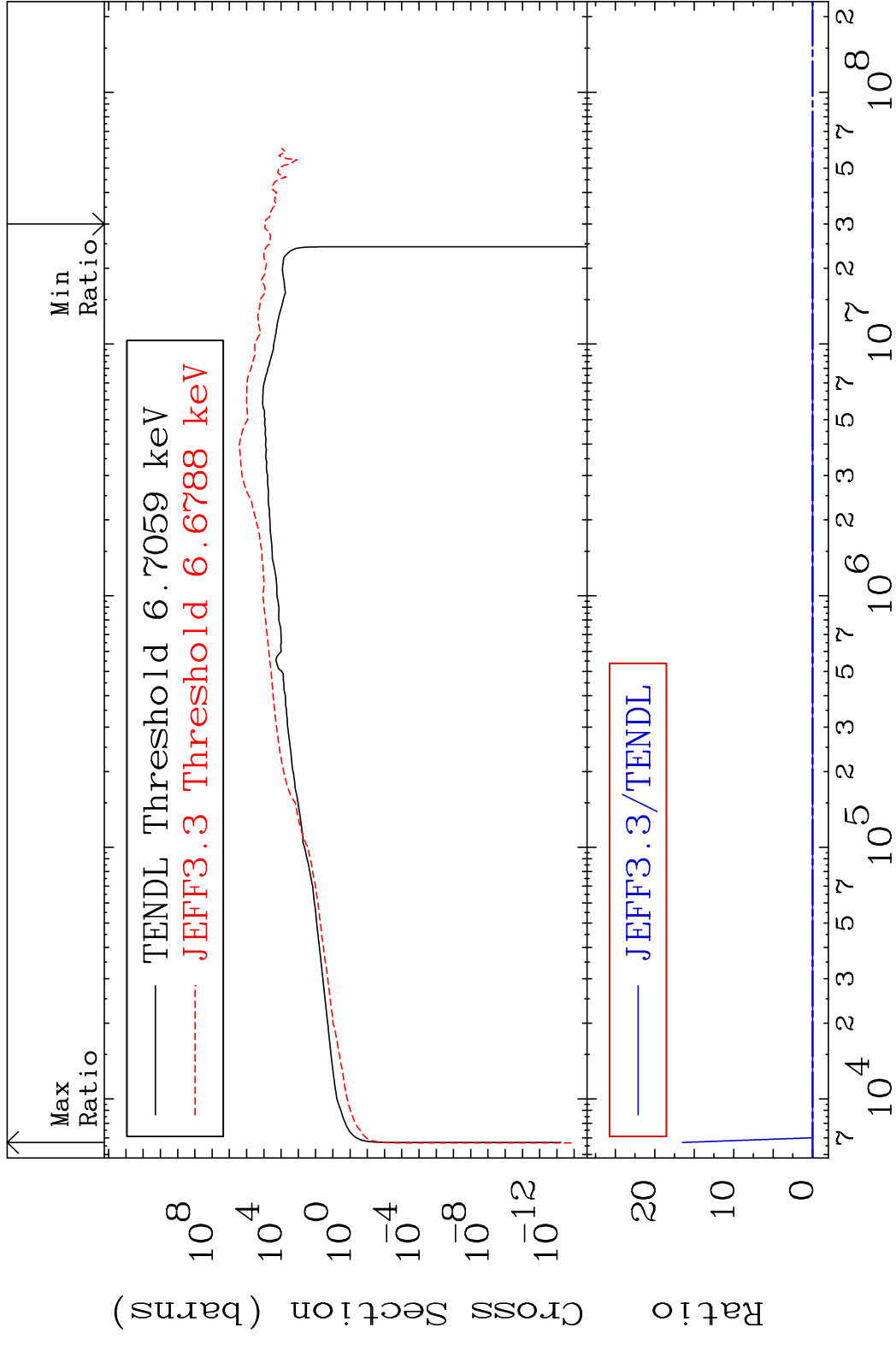


MAT 9137 Kerma non-elastic (all but mt2) 91-Pa-233  
 Cross Section -100.0 To 738.1 %

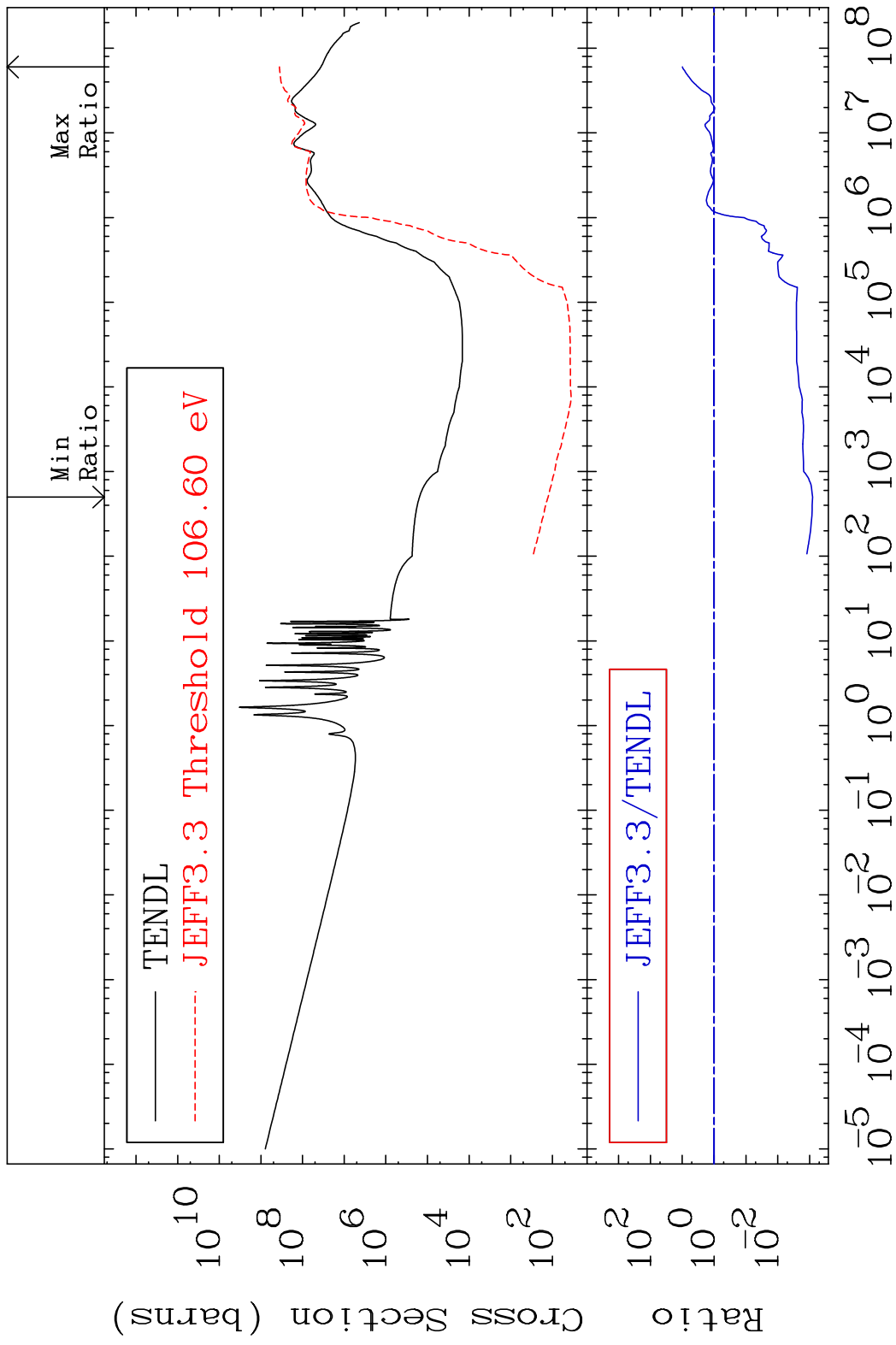


20 Incident Energy (eV) 91-Pa-233

MAT 9137 Kerma inelastic (mt51-91) 91-Pa-233  
 Cross Section -2127. To 9999. %

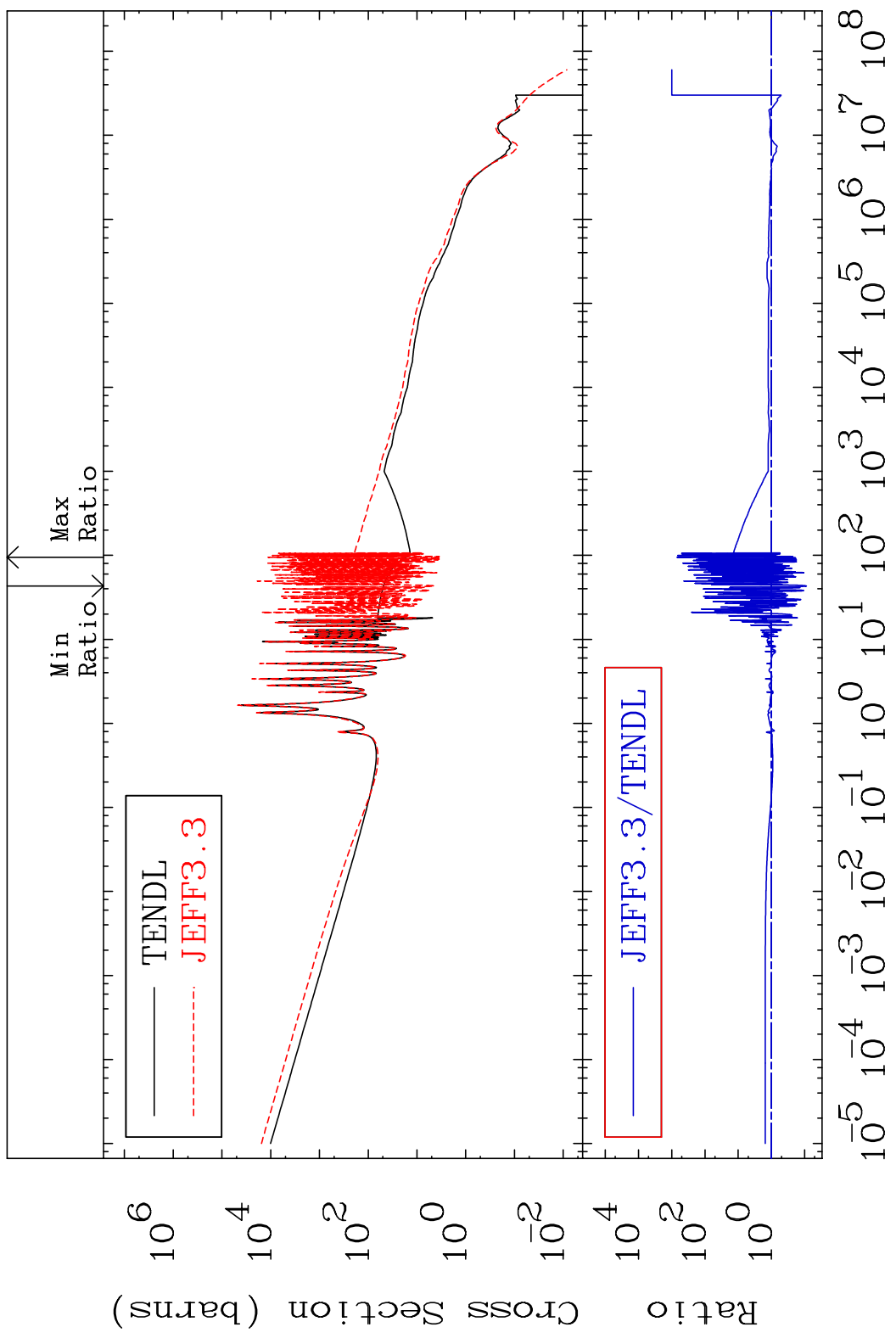


MAT 9137 Kerma fission (mt18 or mt19-20-21-38) 91-Pa-233  
 Cross Section -99.92 To 889.7 %



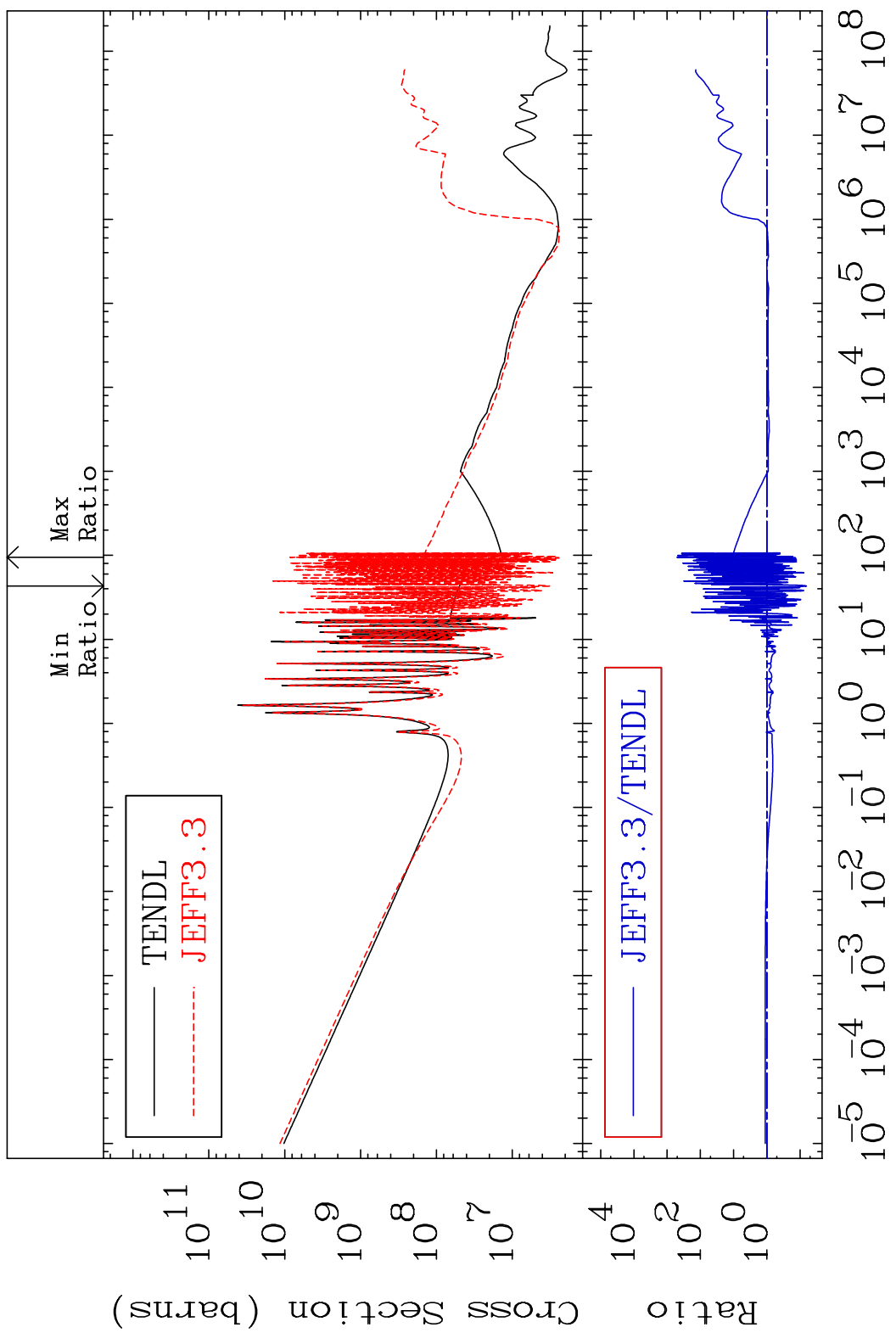
MAT 9137

Kerma capture (mt102) 91-Pa-233  
Cross Section -91.11 To 9999. %

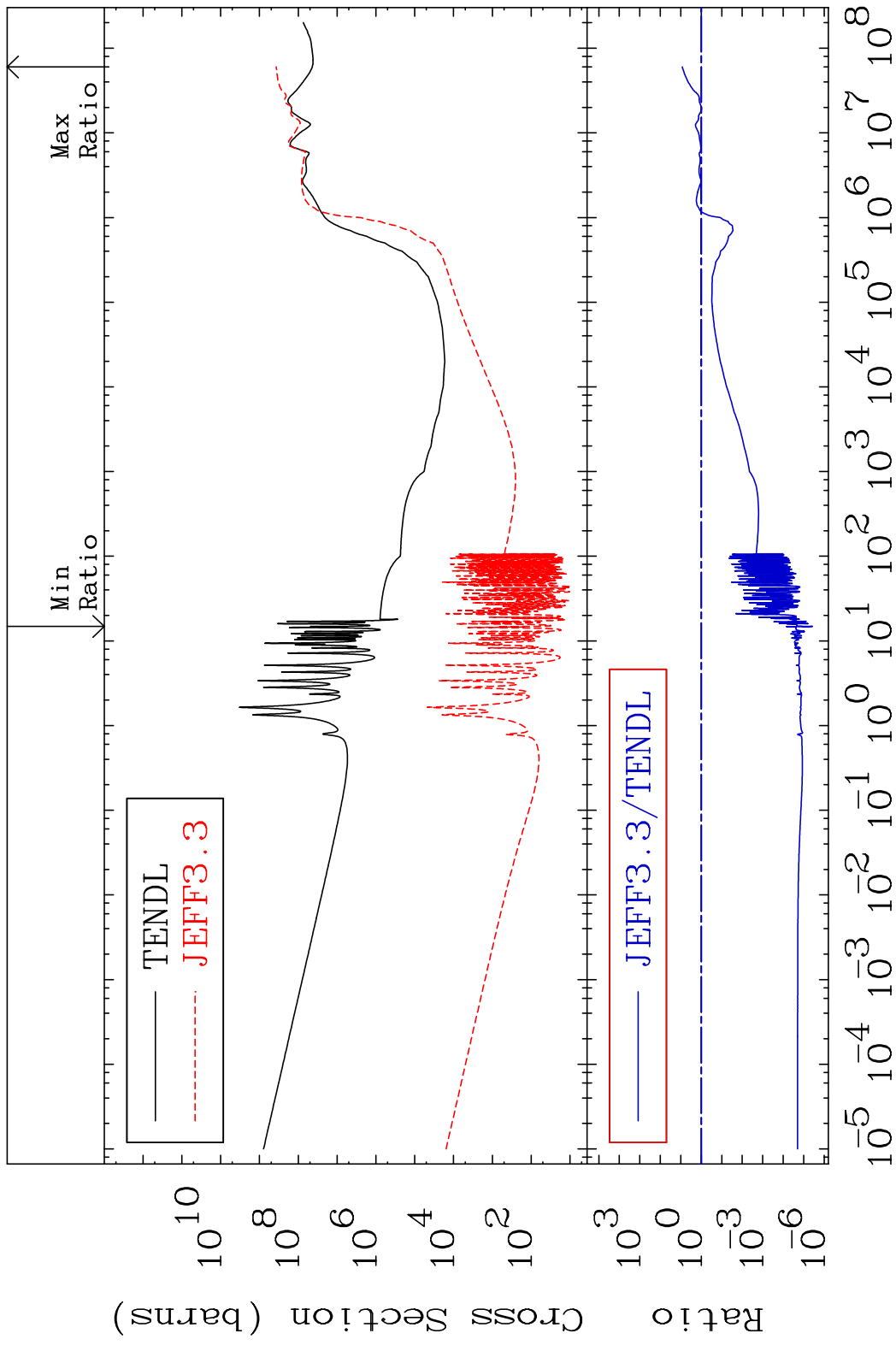


MAT 9137

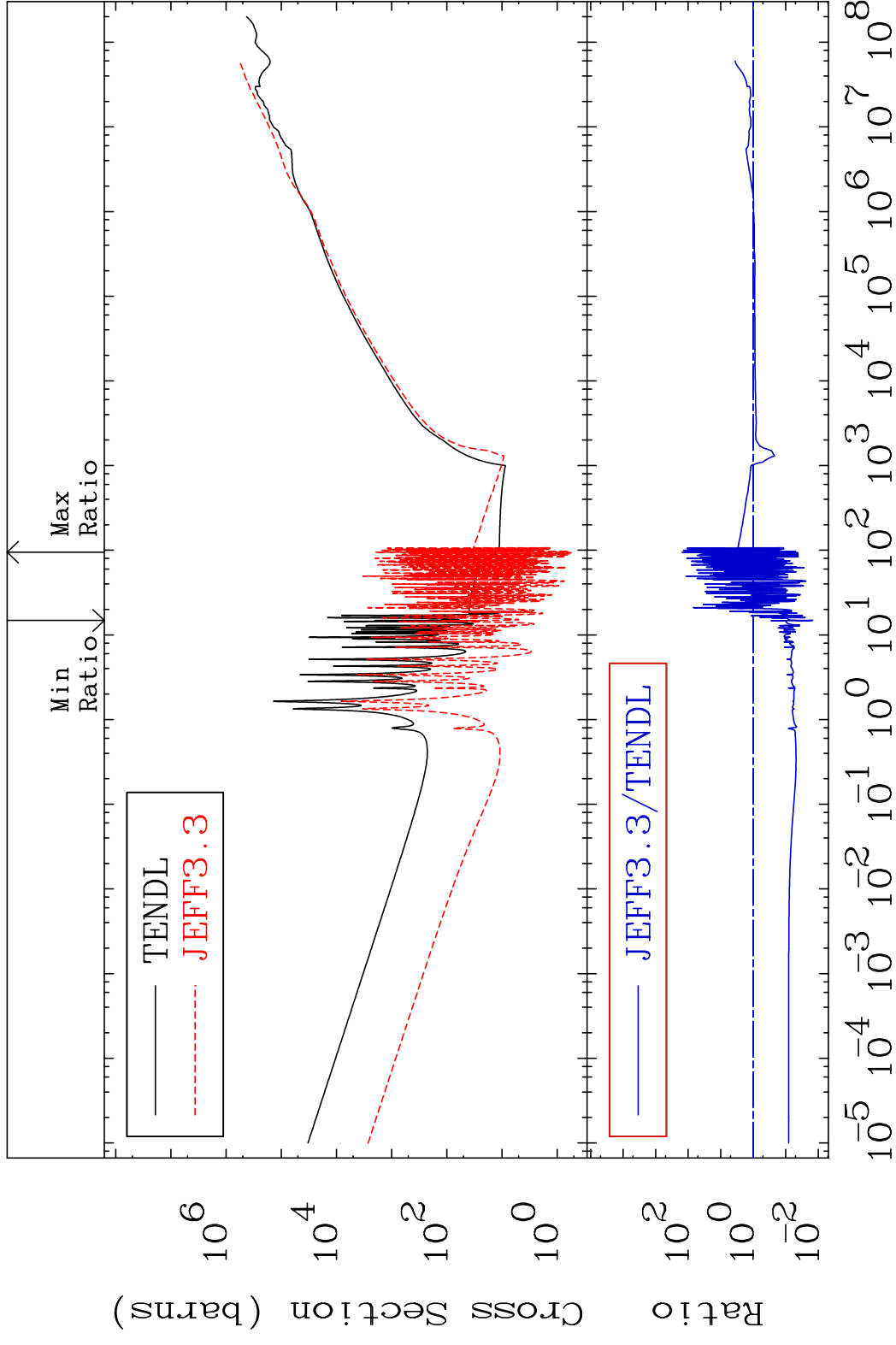
Total photon (eV-barns) 91-Pa-233  
Cross Section -93.53 To 9999. %



MAT 9137 Total kinematic kerma (high limit) 91-Pa-233  
 Cross Section -100.0 To 737.8 %



Cross Section -98.51 To 9999. %

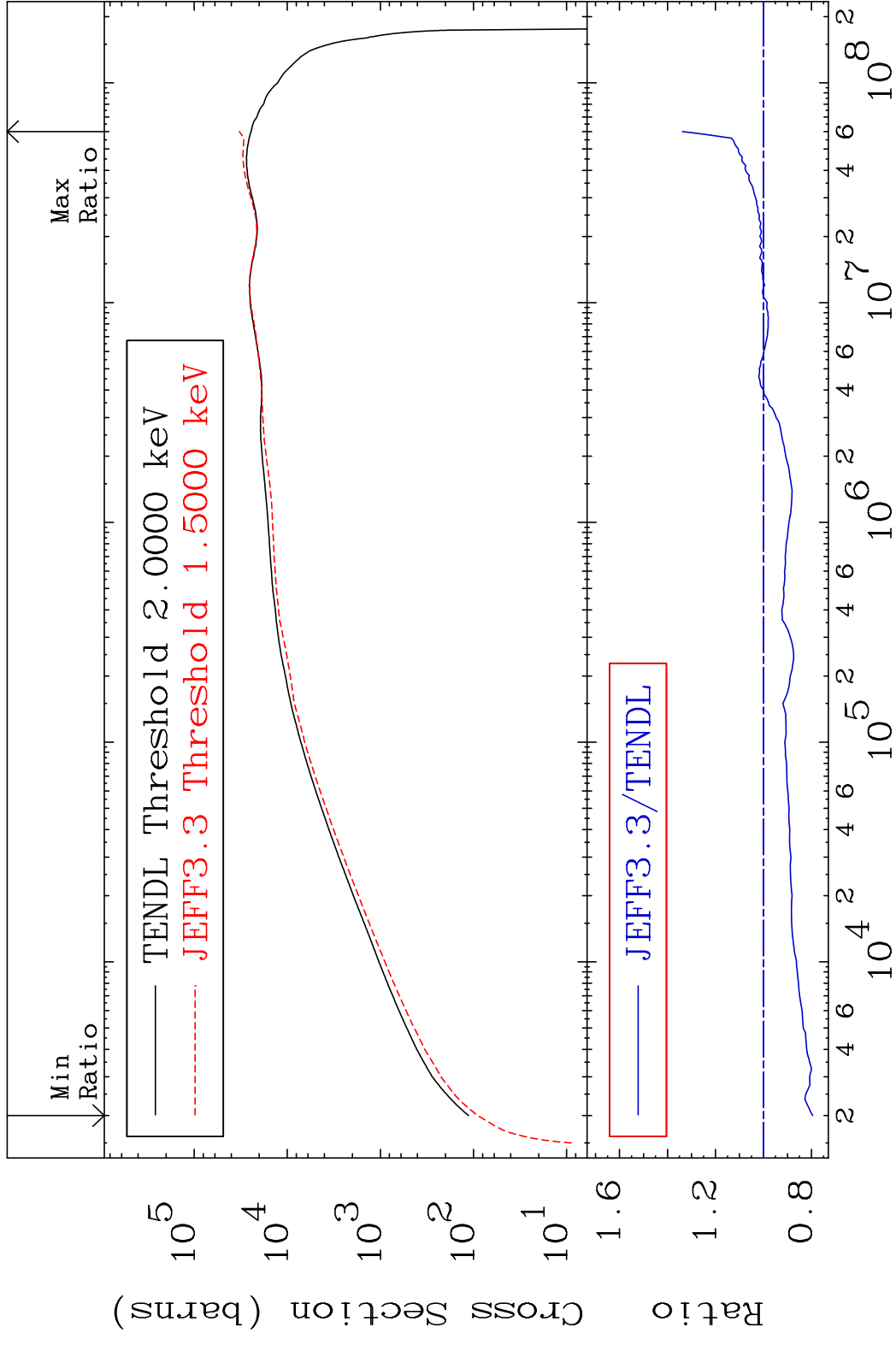


MAT 9137

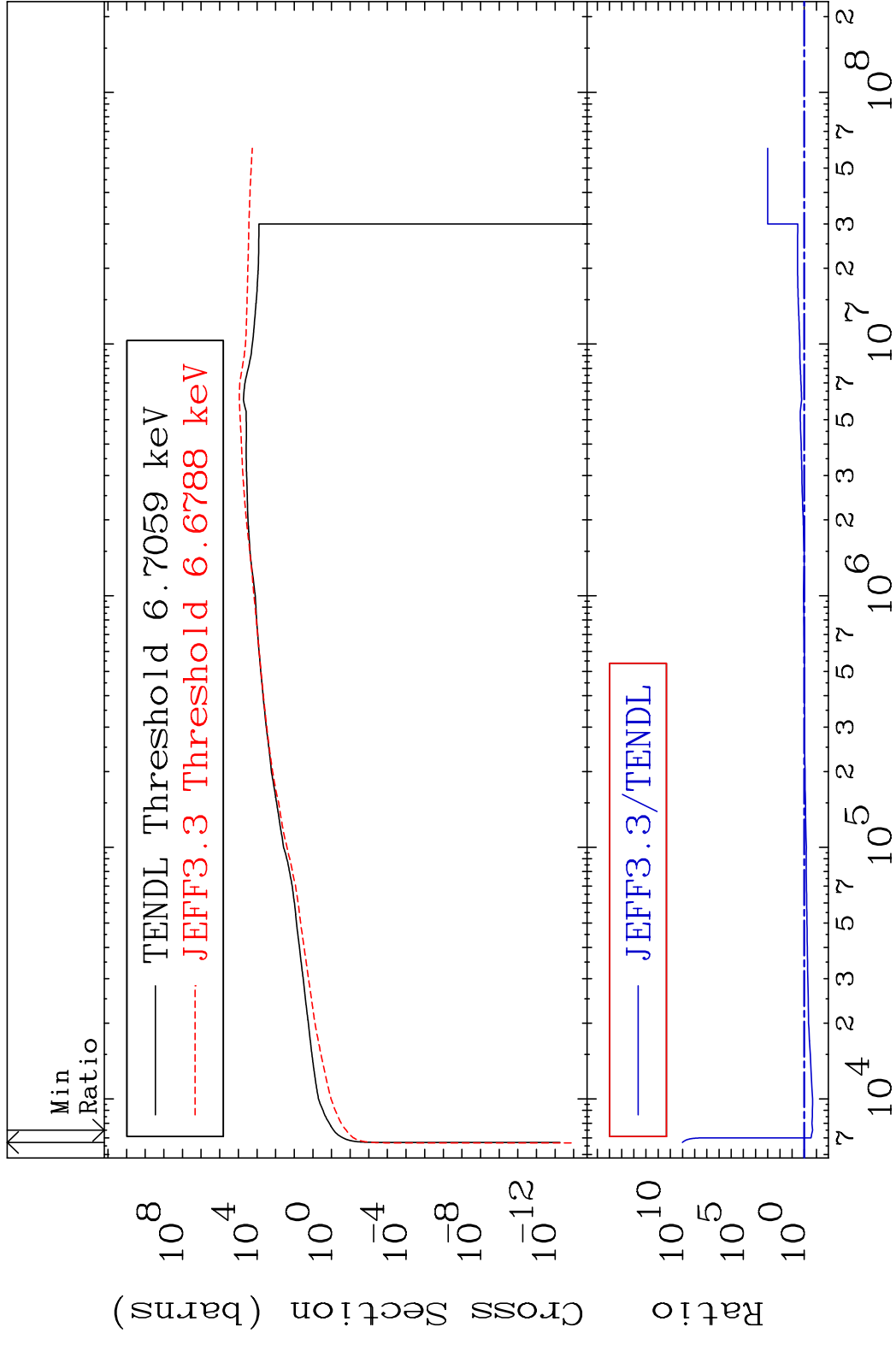
Dpa elastic (mt2)

91-Pa-233

Cross Section -20.45 To 33.82 %



MAT 9137 Dpa inelastic (mt51-91) 91-Pa-233  
 Cross Section -79.14 To 9999. %



MAT 9137 Dpa disappearance (mt102 -120) 91-Pa-233  
 Cross Section -88.77 To 9999. %

