

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

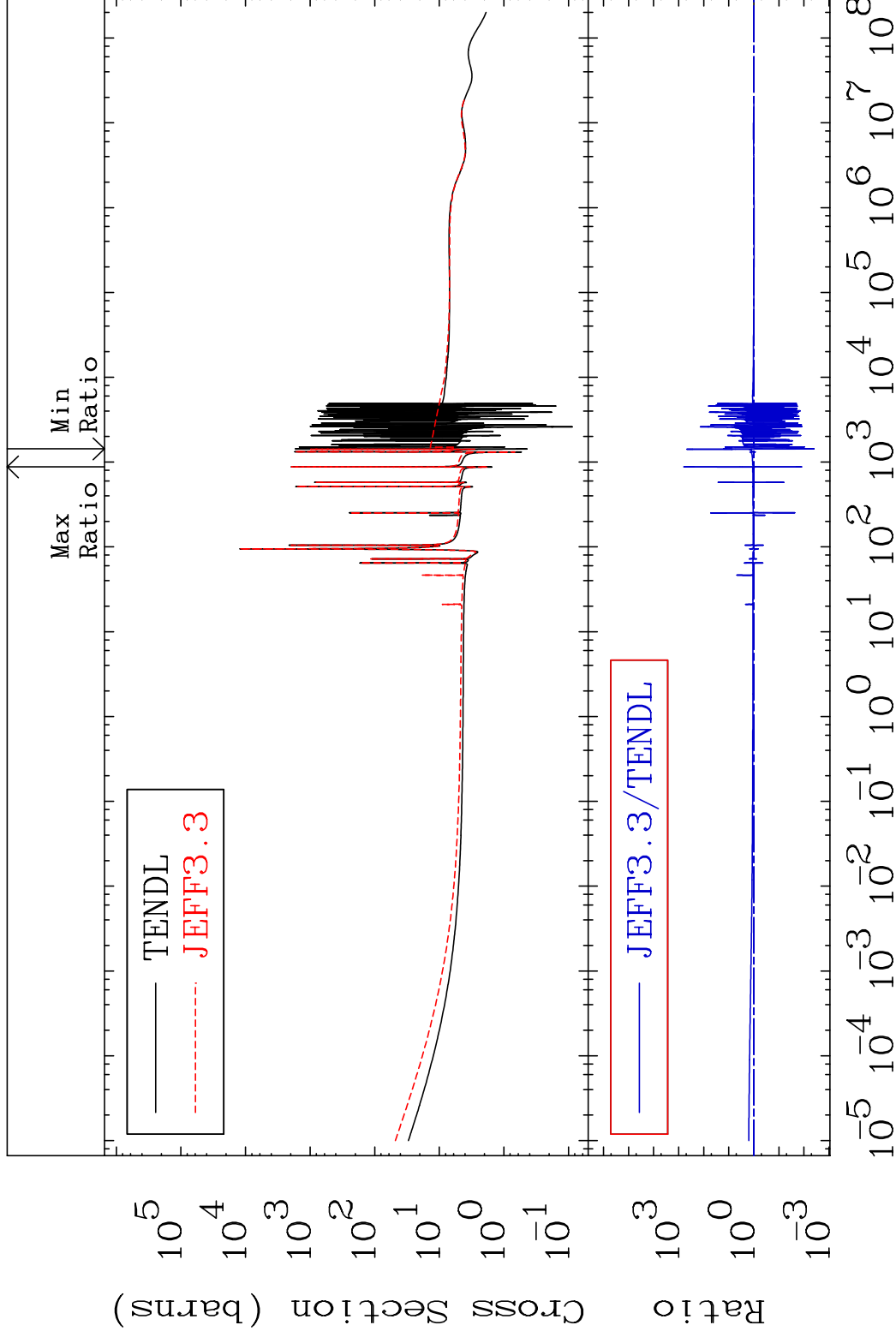
Press Mouse Button to Start

MAT 5025

Total

50-Sn-112

Cross Section -99.61 To 9999. %



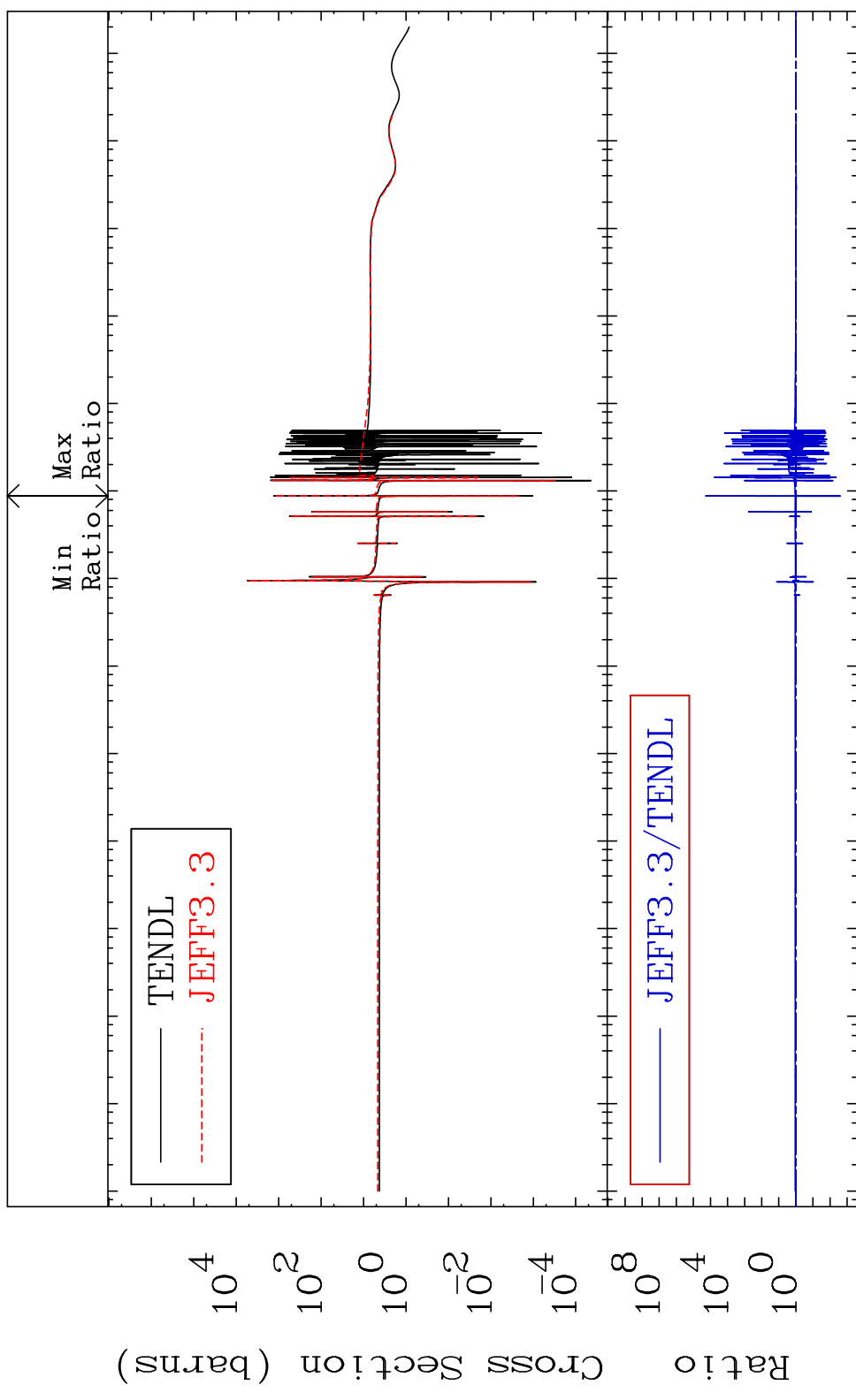
1

Incident Energy (eV)

50-Sn-112

MAT 5025

Elastic Cross Section -99.76 To 9999. %  
50-Sn-112



2

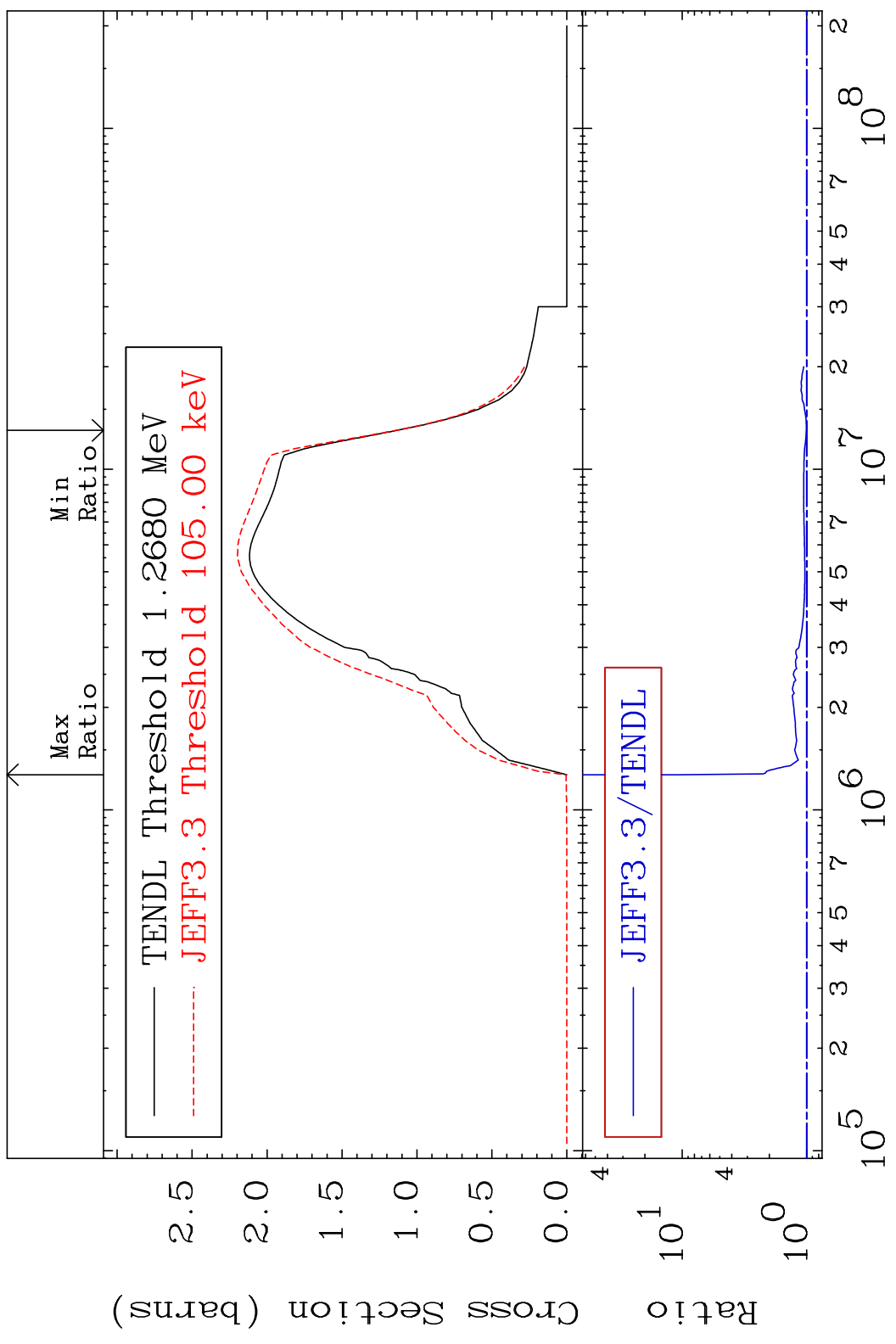
Incident Energy (eV) 50-Sn-112

MAT 5025

Inelastic

50-Sn-112

Cross Section 0.488 To 999.6 %



3

Incident Energy (eV)

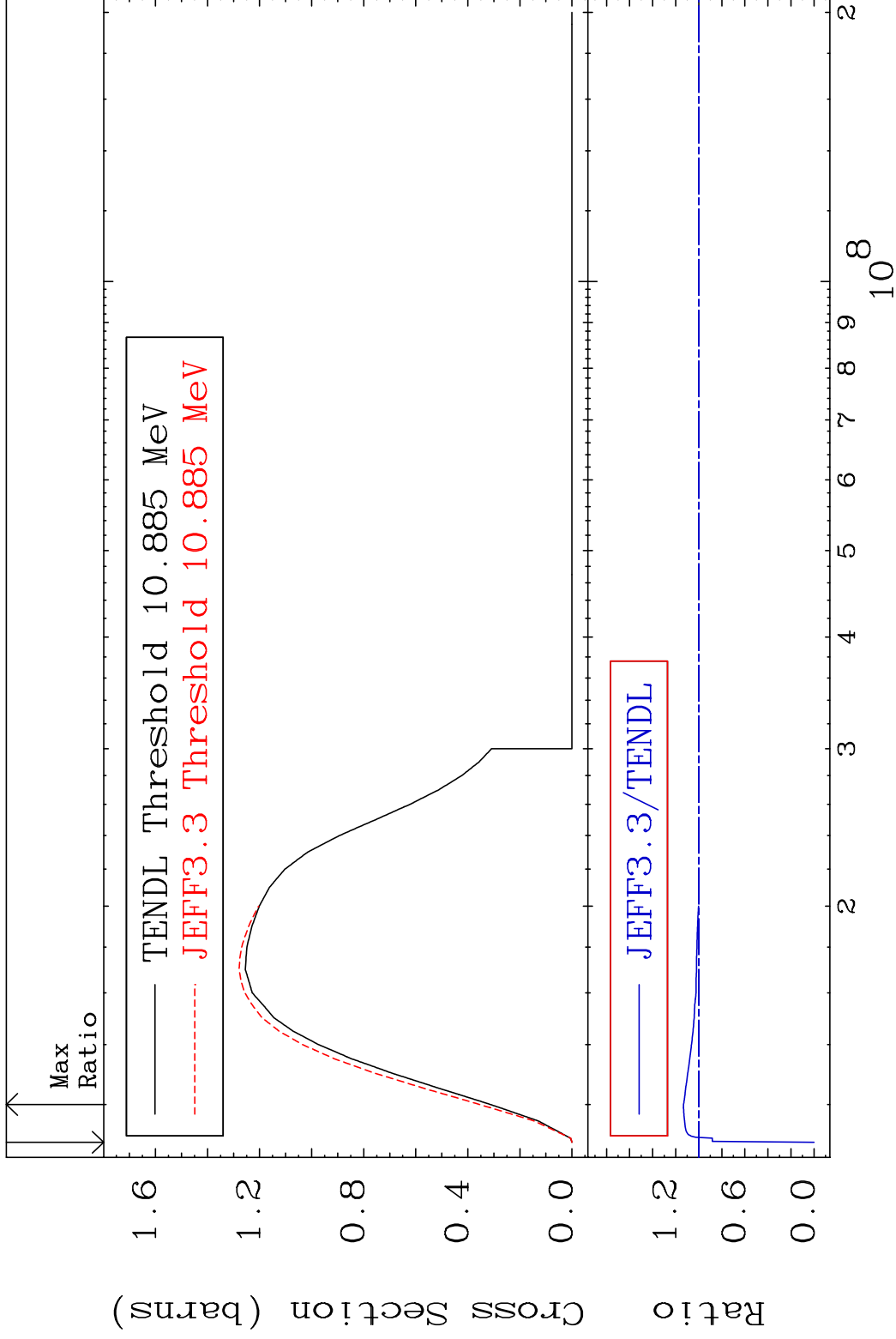
50-Sn-112

MAT 5025

(n,2n)

50-Sn-112

Cross Section -100.0 To 13.28 %



4

Incident Energy (eV)

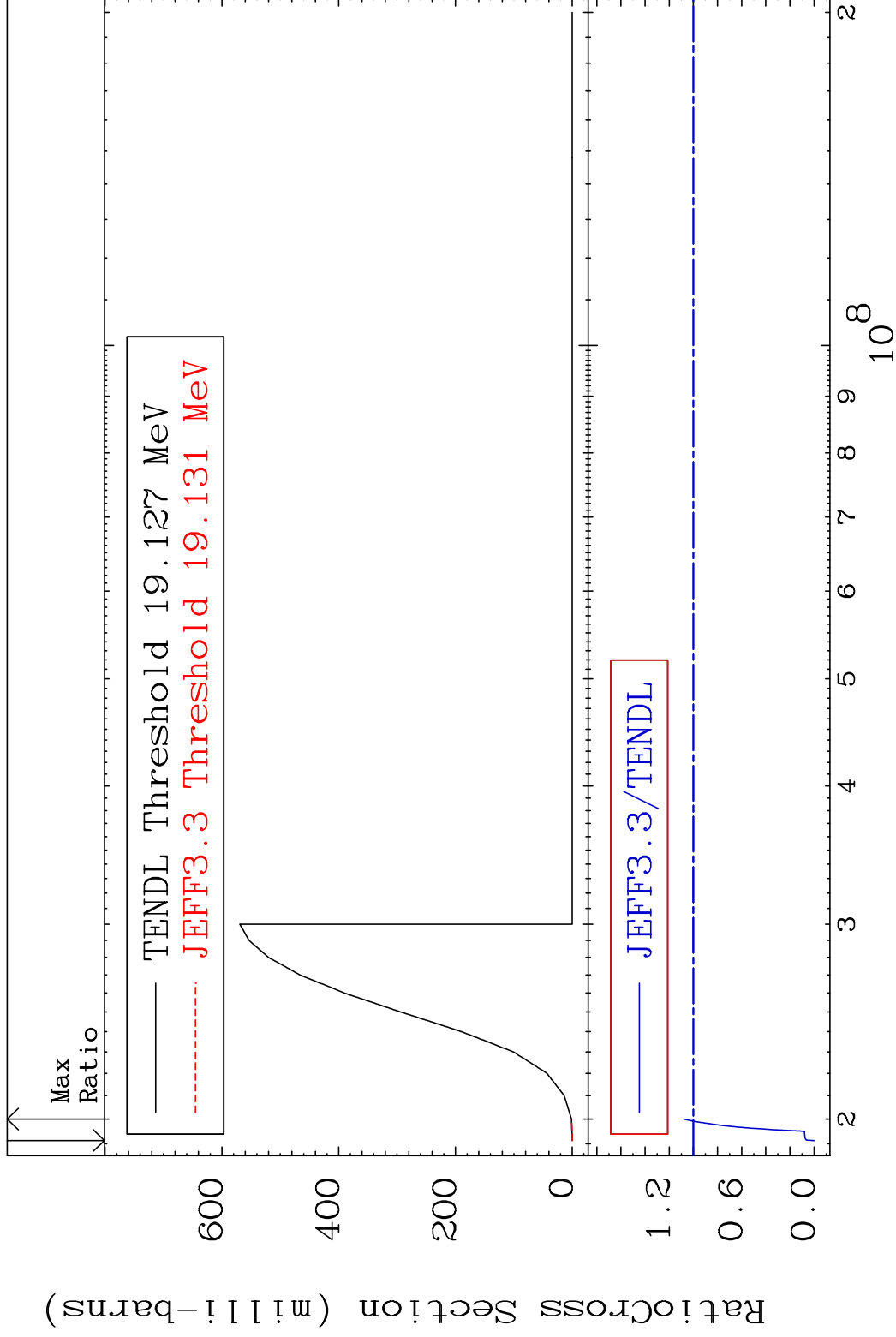
50-Sn-112

MAT 5025

(n,3n)

50-Sn-112

Cross Section -100.0 To 8.066 %



5

Incident Energy (eV)

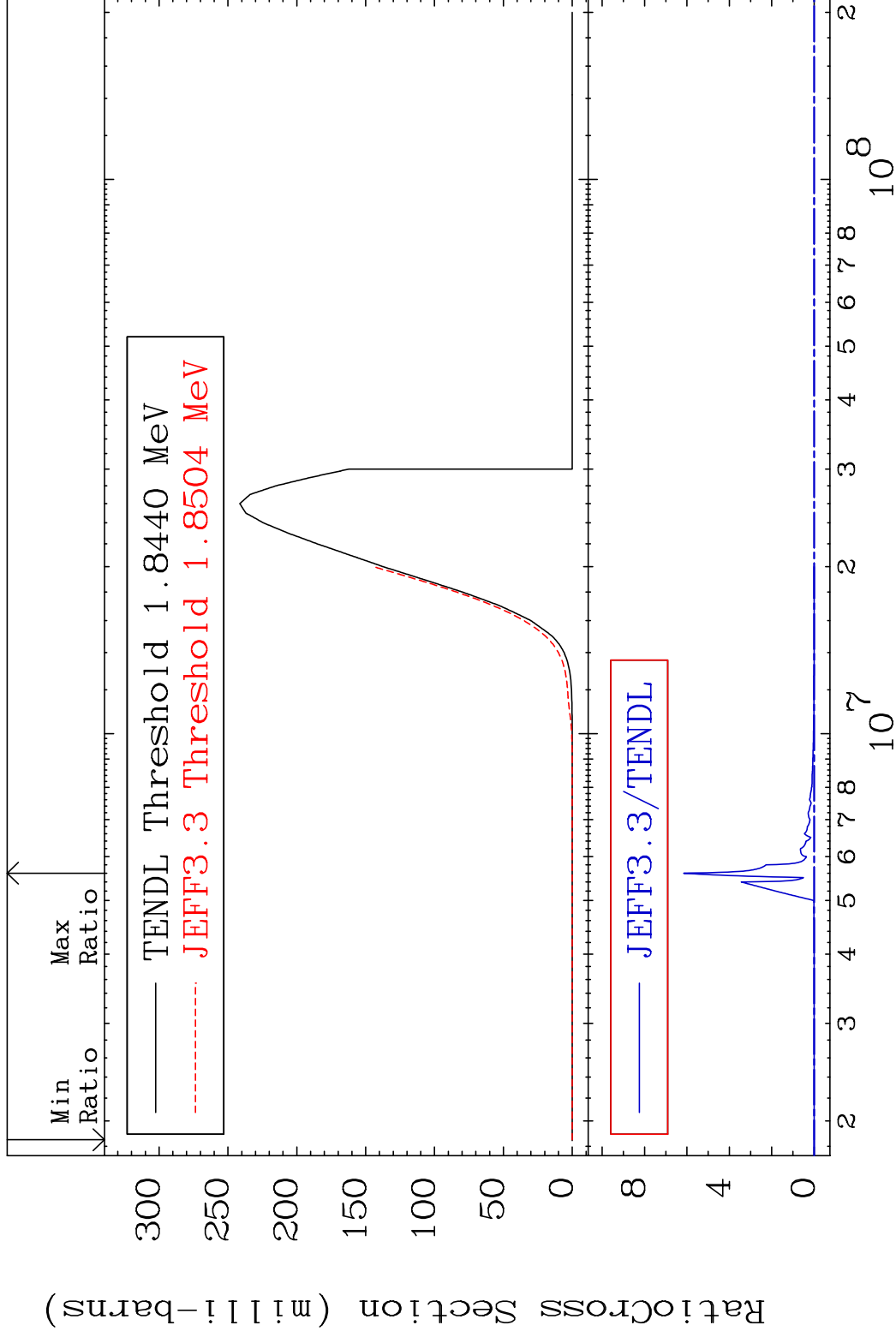
50-Sn-112

MAT 5025

(n, n')  $\alpha$

50-Sn-112

Cross Section -100.0 To 9999. %

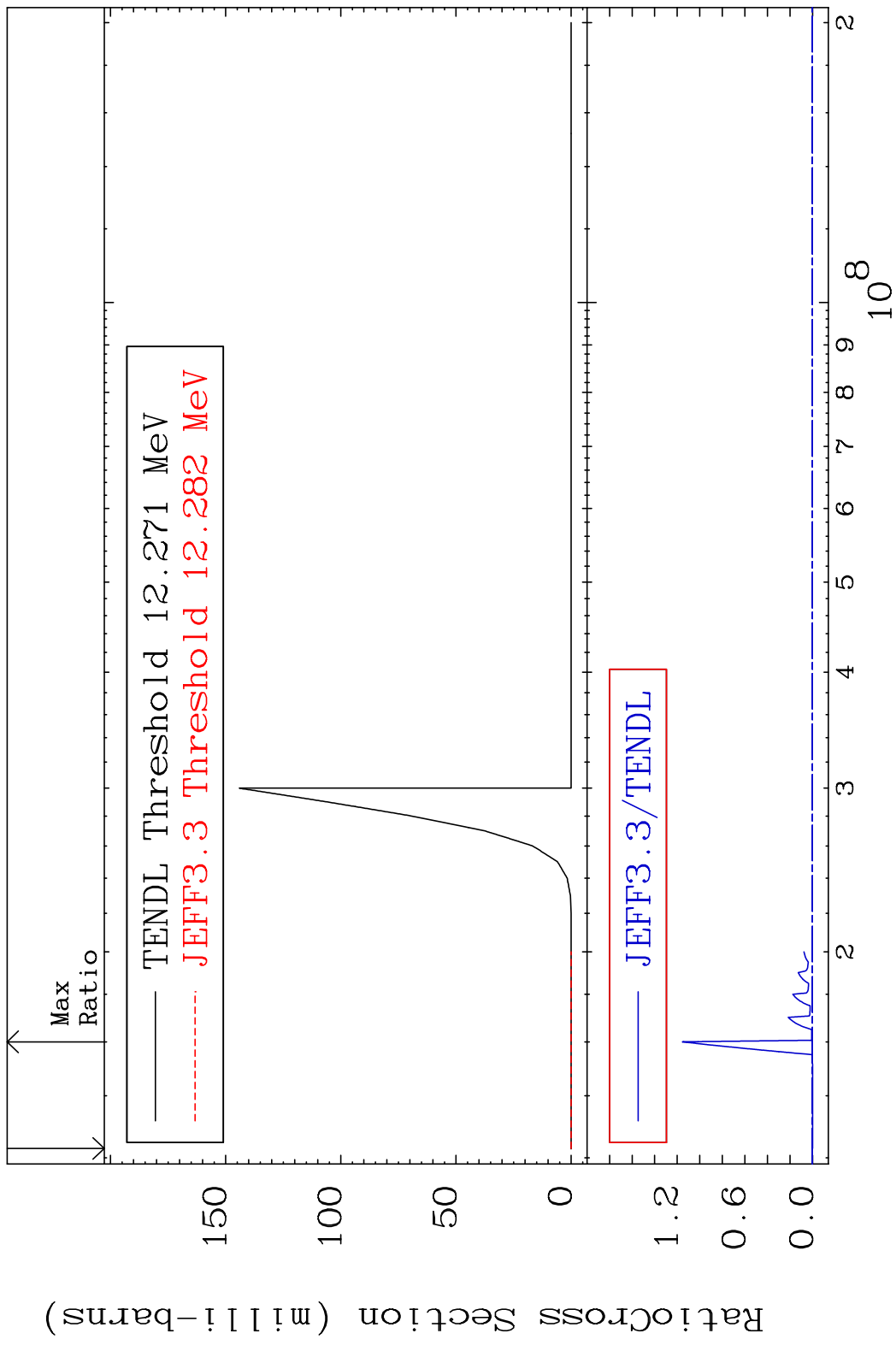


6

Incident Energy (eV)

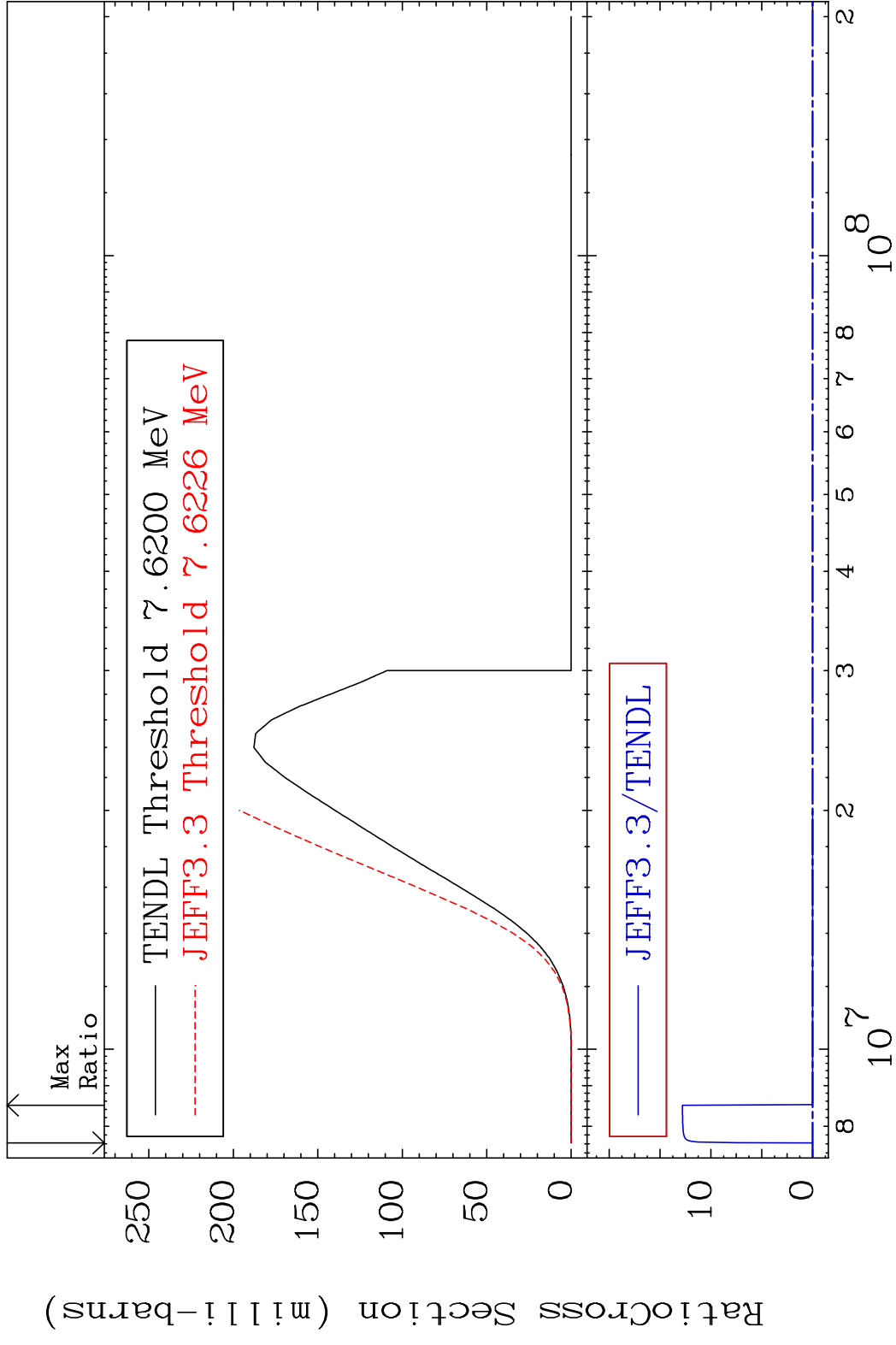
50-Sn-112

MAT 5025 (n,2n)  $\alpha$  50-Sn-112  
 Cross Section -100.0 To 9999. %





MAT 5025 (n, n') p 50-Sn-112  
 Cross Section -100.0 To 9999. %



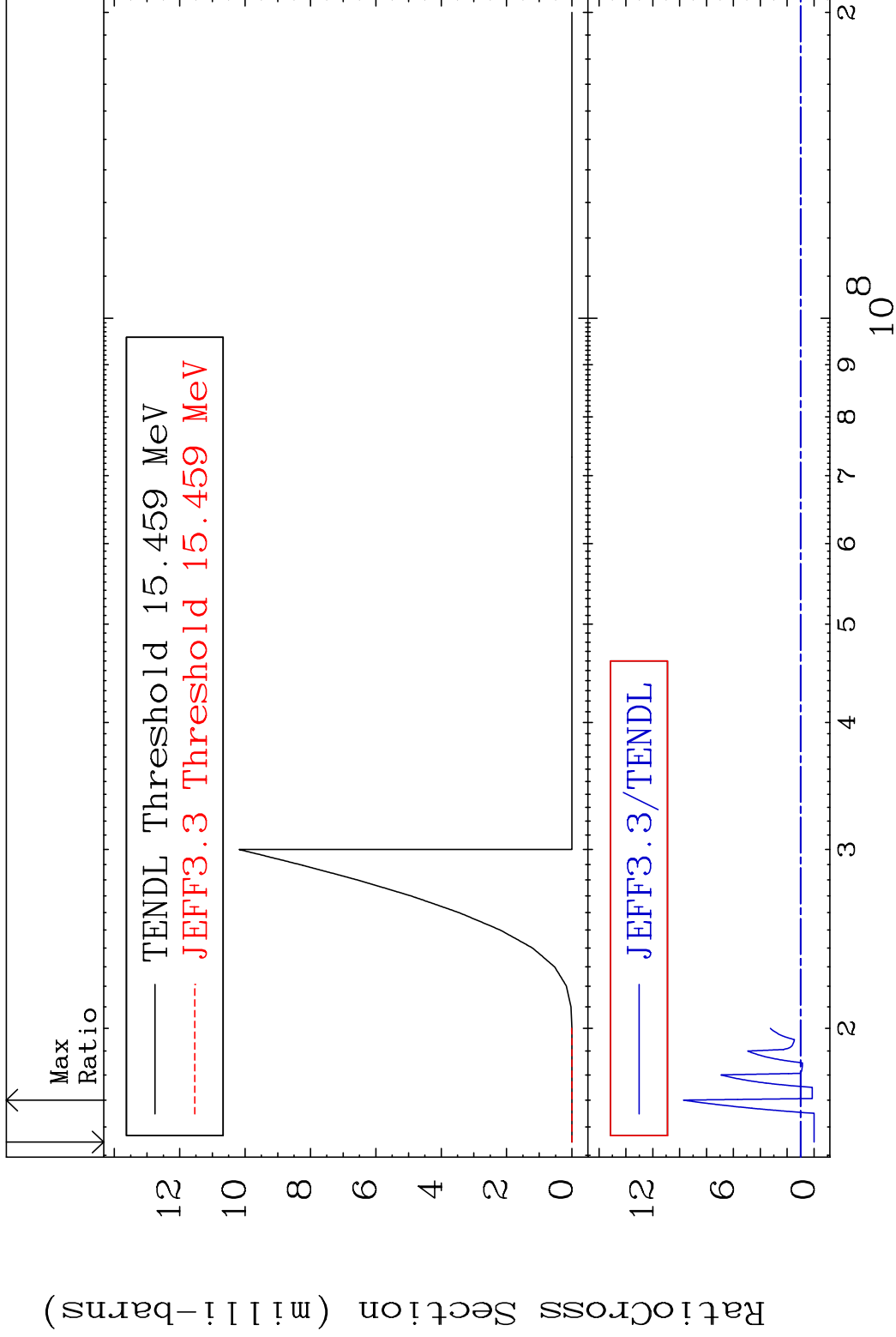
8 8 Incident Energy (eV) 50-Sn-112

MAT 5025

(n, n') d

50-Sn-112

Cross Section -100.0 To 871.7 %

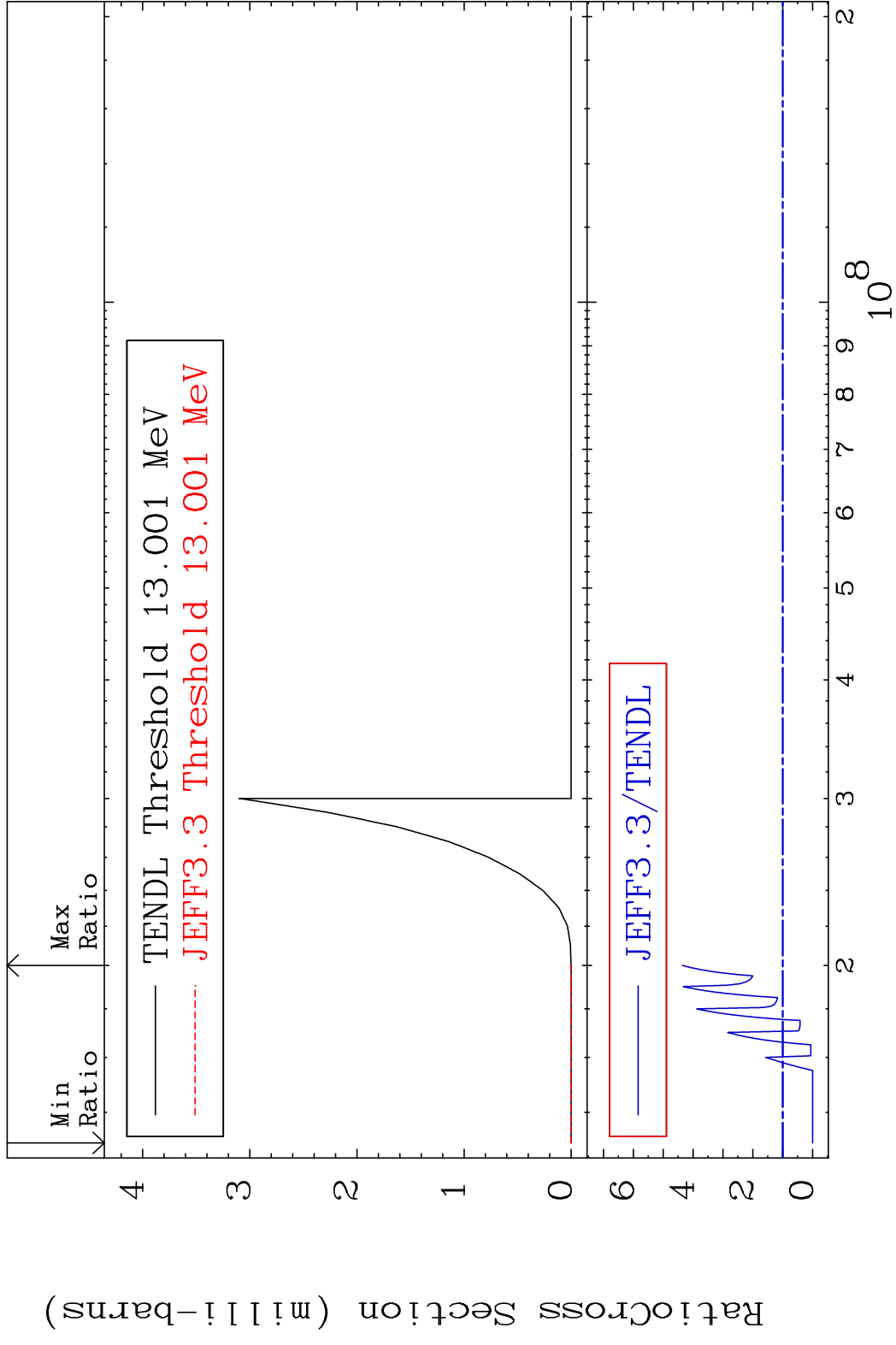


9

Incident Energy (eV)

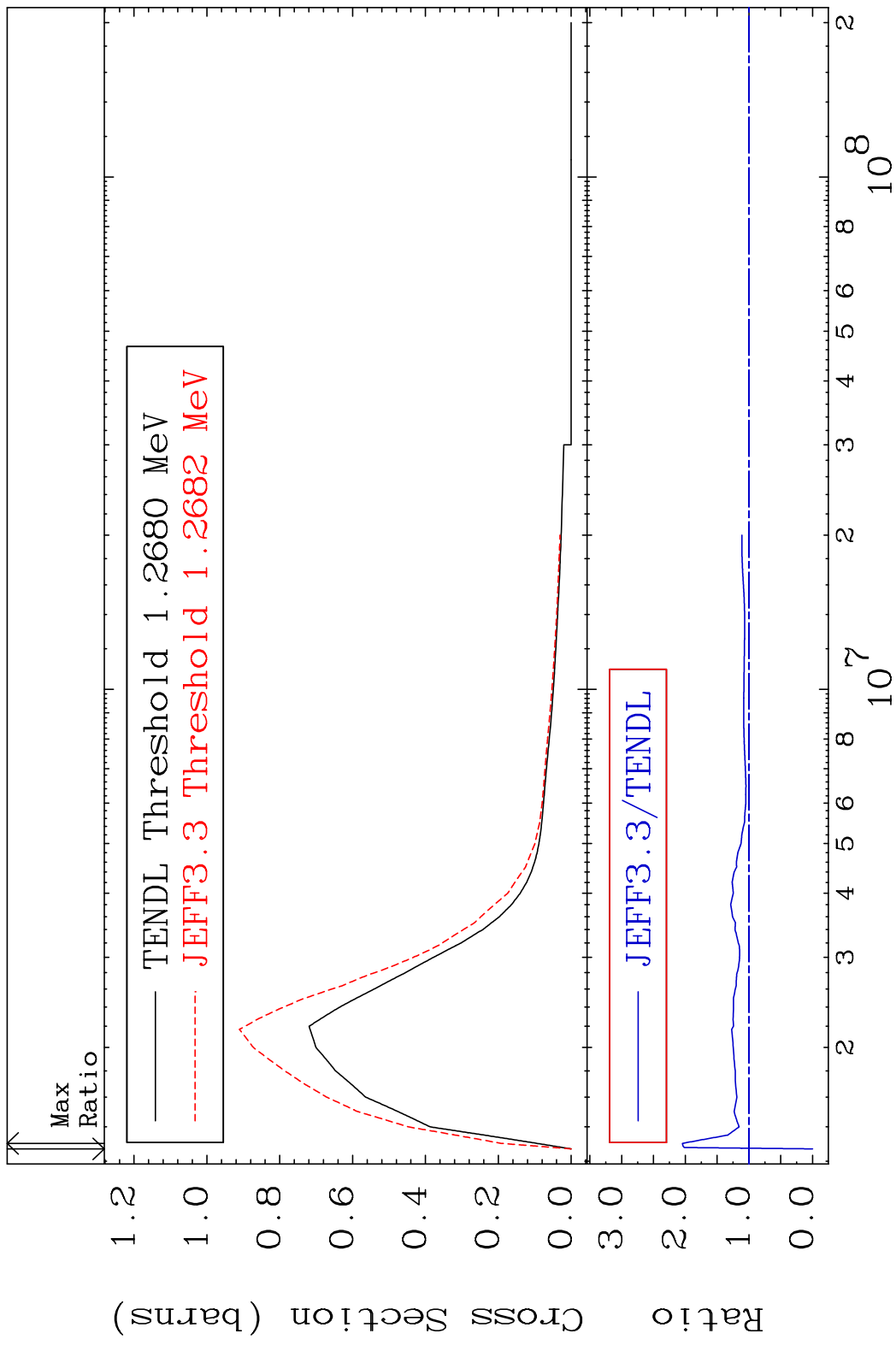
50-Sn-112

MAT 5025 (n,2n) p 50-Sn-112  
 Cross Section -100.0 To 335.7 %

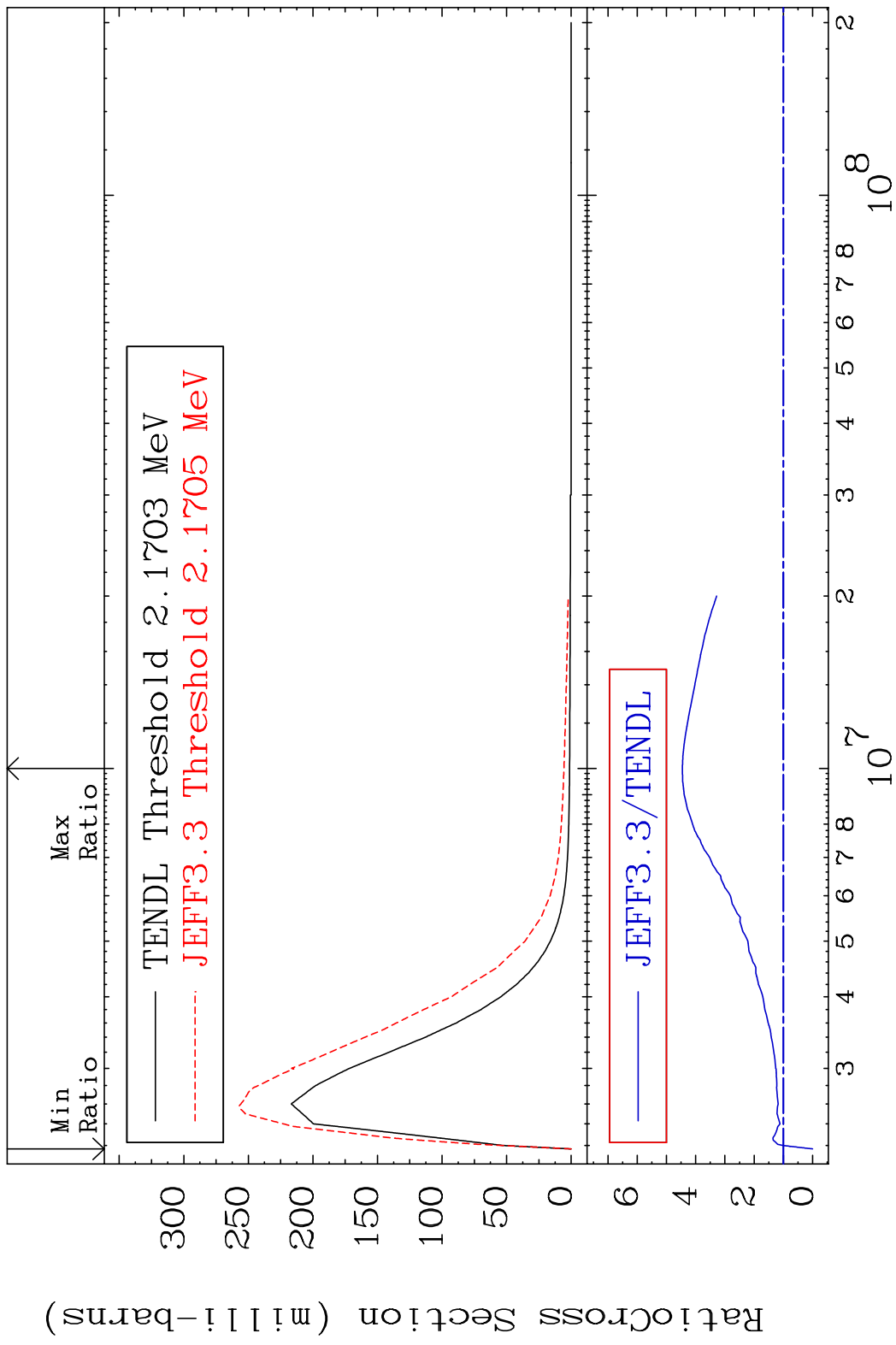


10 Incident Energy (eV) 50-Sn-112

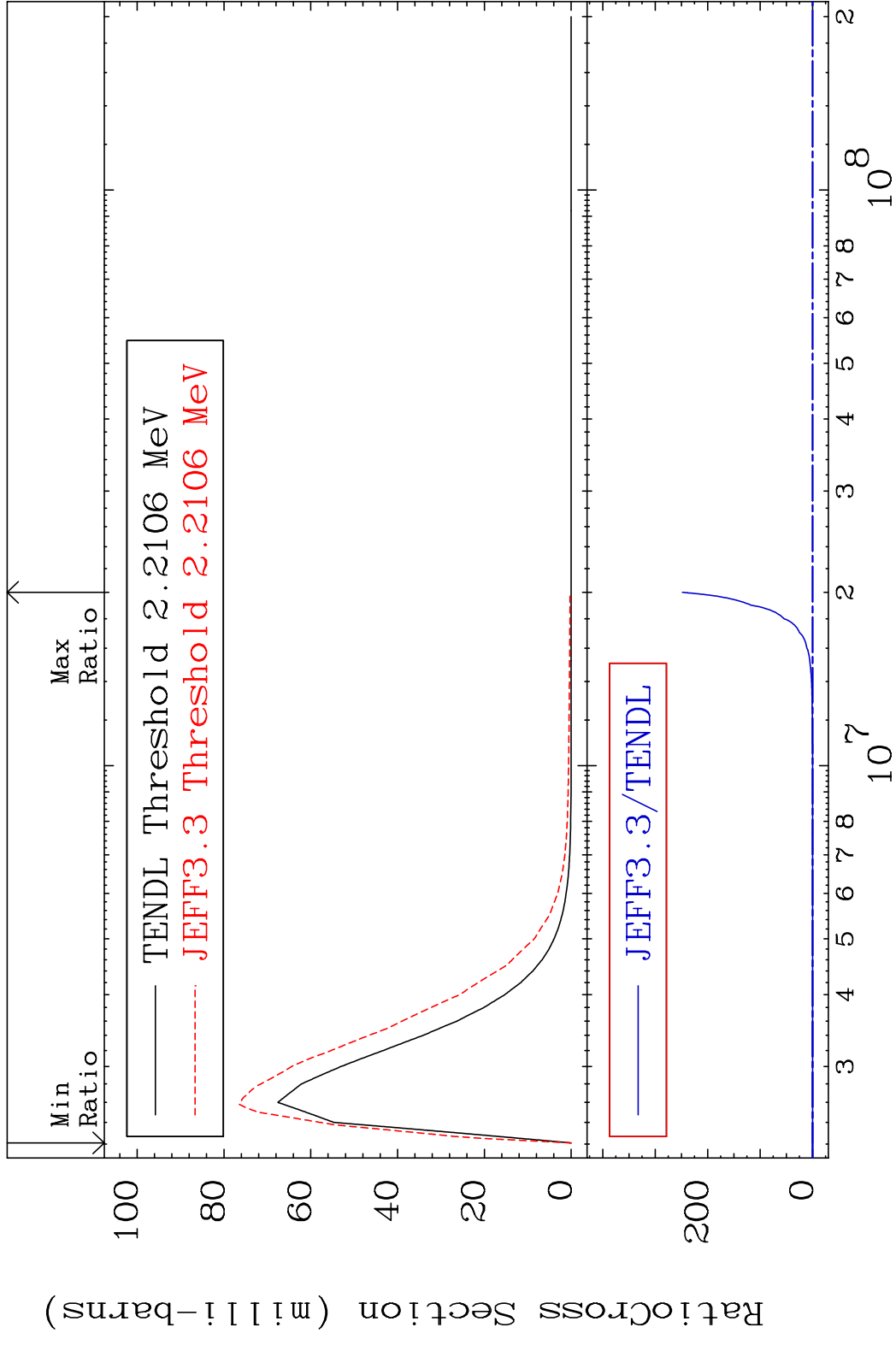
MAT 5025      MT= 51 (n,n') Level      50-Sn-112  
 Cross Section    -100.0 To 104.6 %



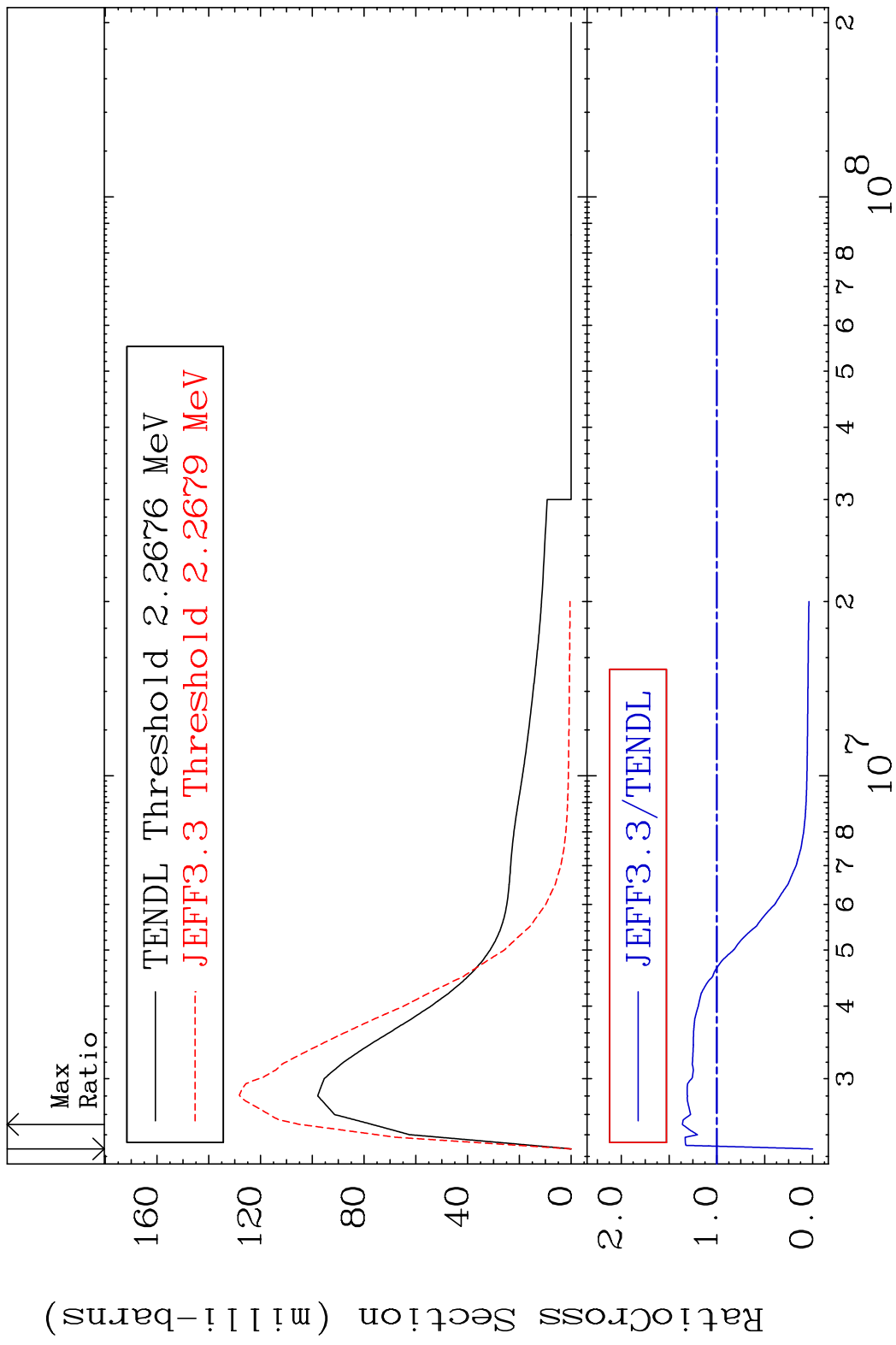
MAT 5025 MT= 52 (n, n') Level 50-Sn-112  
 Cross Section -100.0 To 345.7 %



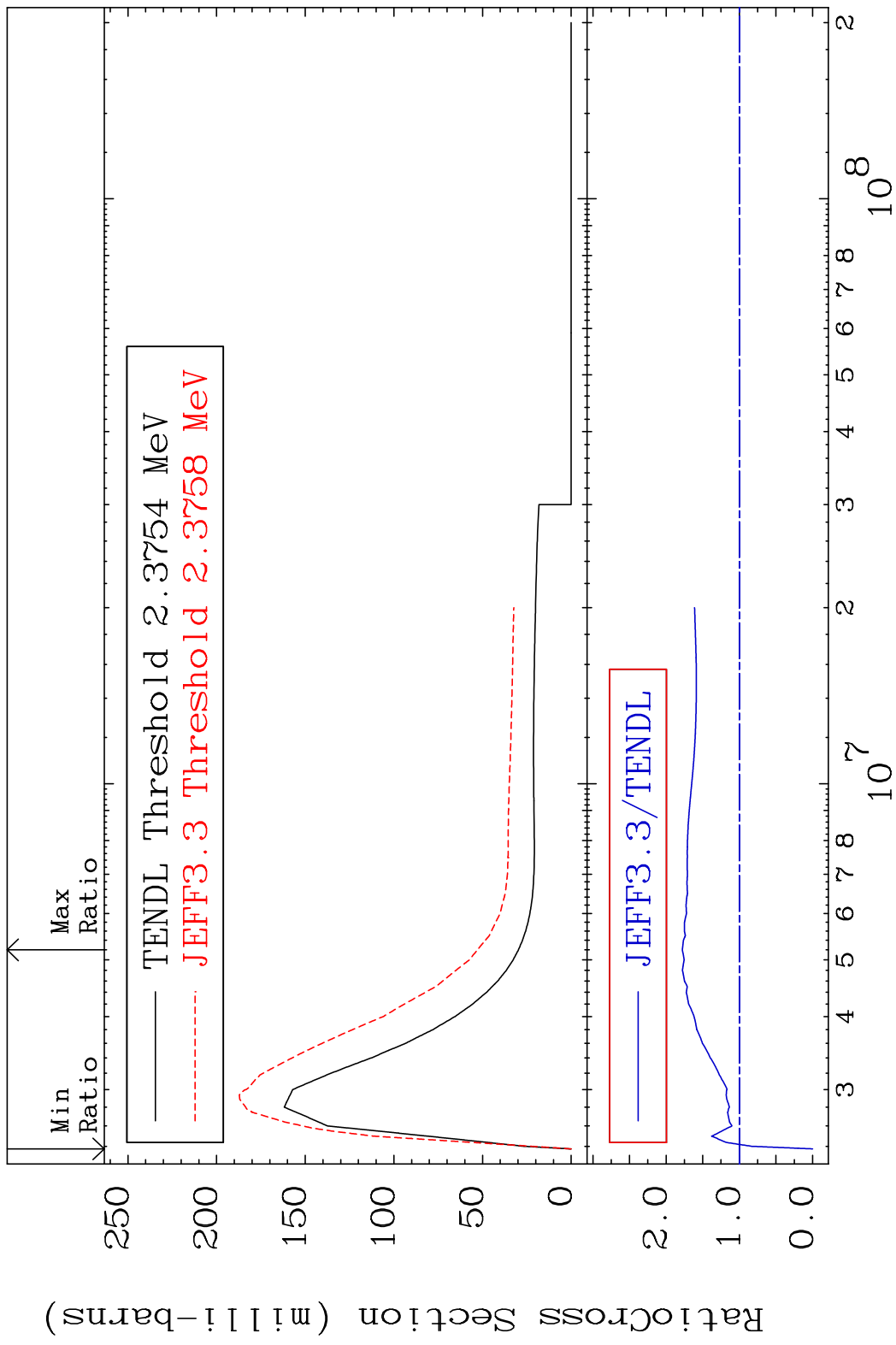
MAT 5025 MT= 53 (n, n') Level 50-Sn-112  
 Cross Section -100.0 To 9999. %



MAT 5025 MT= 54 (n, n') Level 50-Sn-112  
 Cross Section -100.0 To 36.11 %

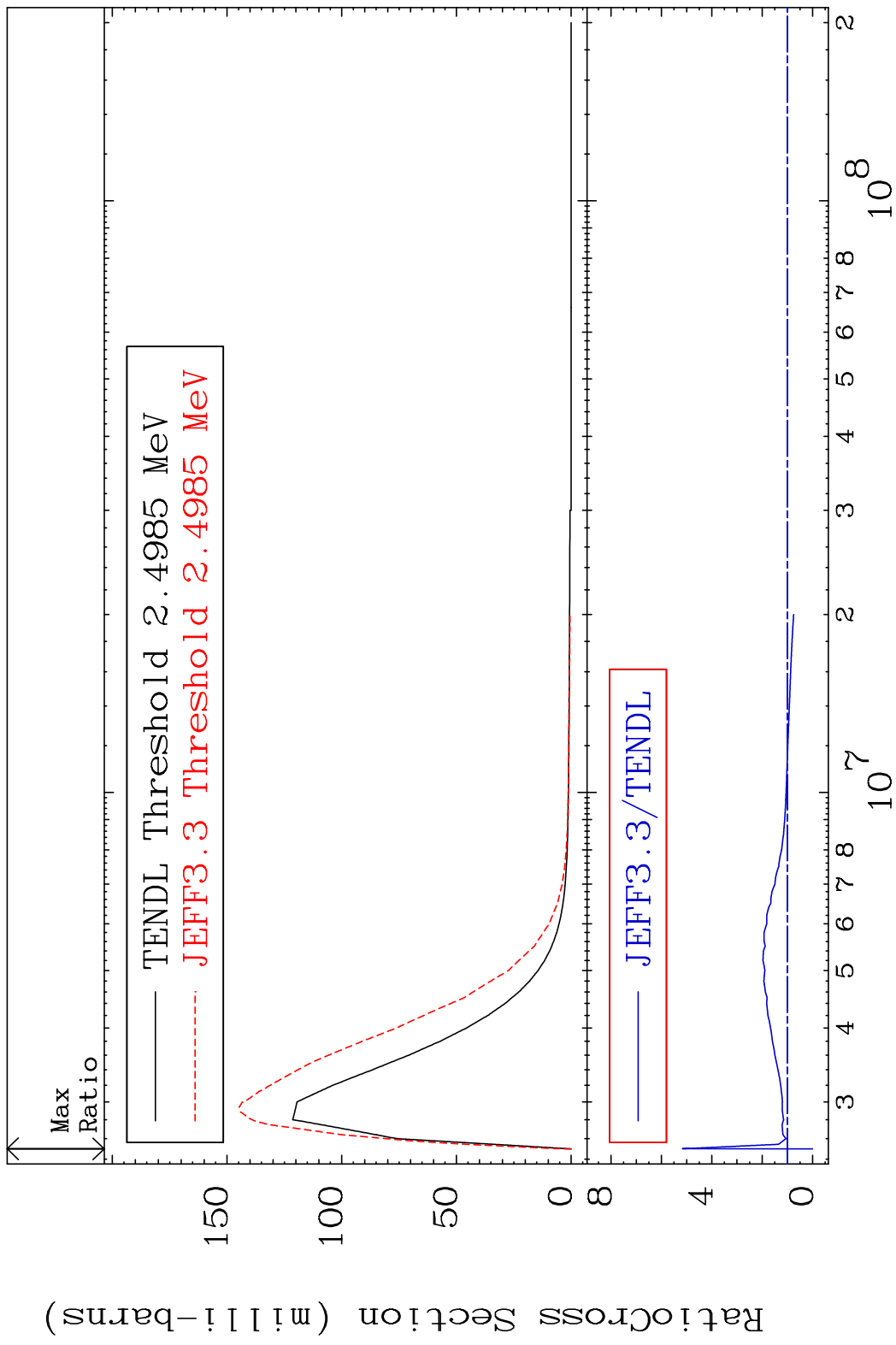


MAT 5025 MT= 55 (n,n') Level 50-Sn-112  
 Cross Section -100.0 To 77.84 %

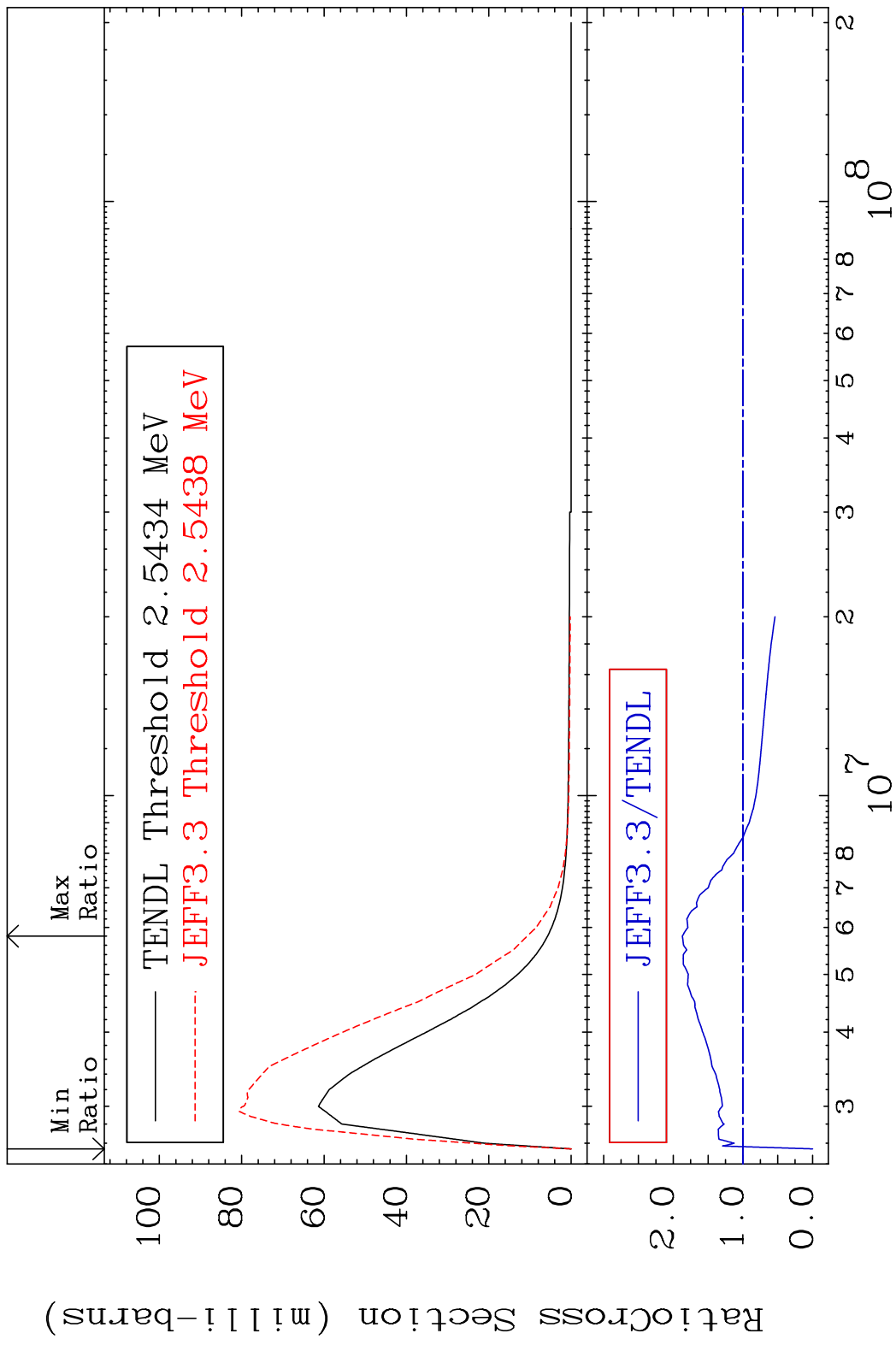




MAT 5025 MT= 56 (n, n') Level 50-Sn-112  
 Cross Section -100.0 To 416.9 %

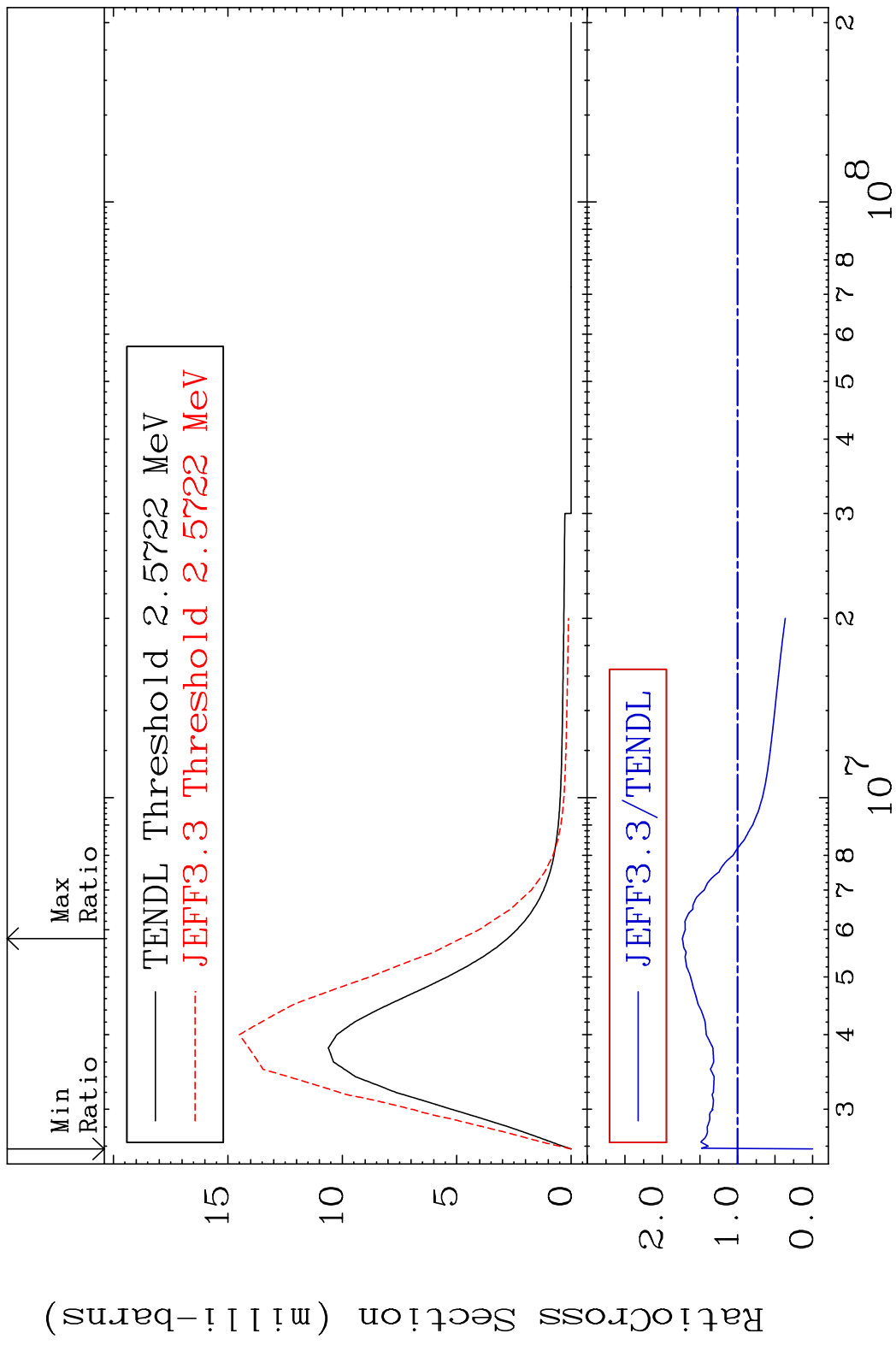


MAT 5025 MT= 57 (n,n') Level 50-Sn-112  
 Cross Section -100.0 To 86.94 %

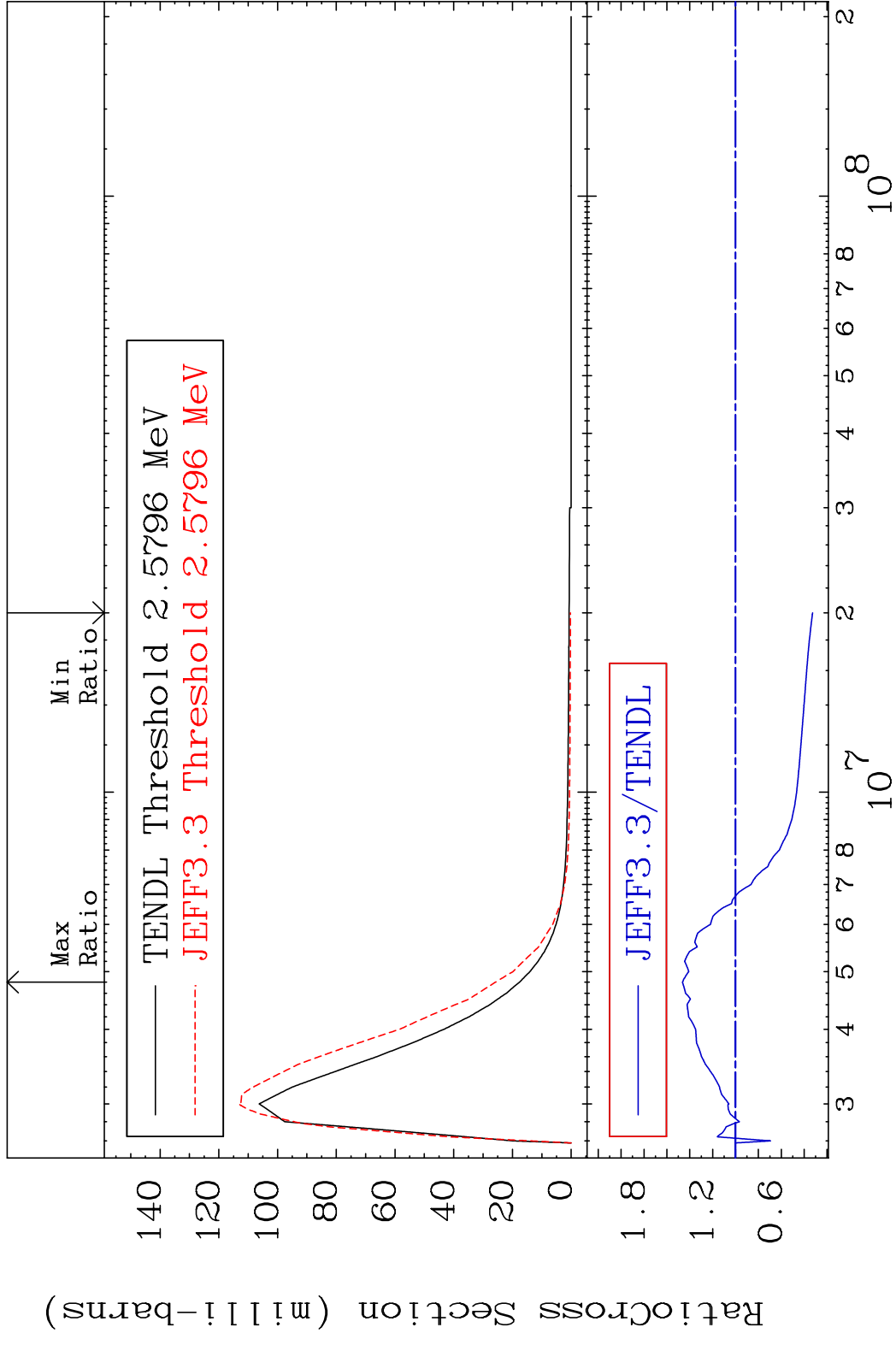


17 Incident Energy (eV) 50-Sn-112

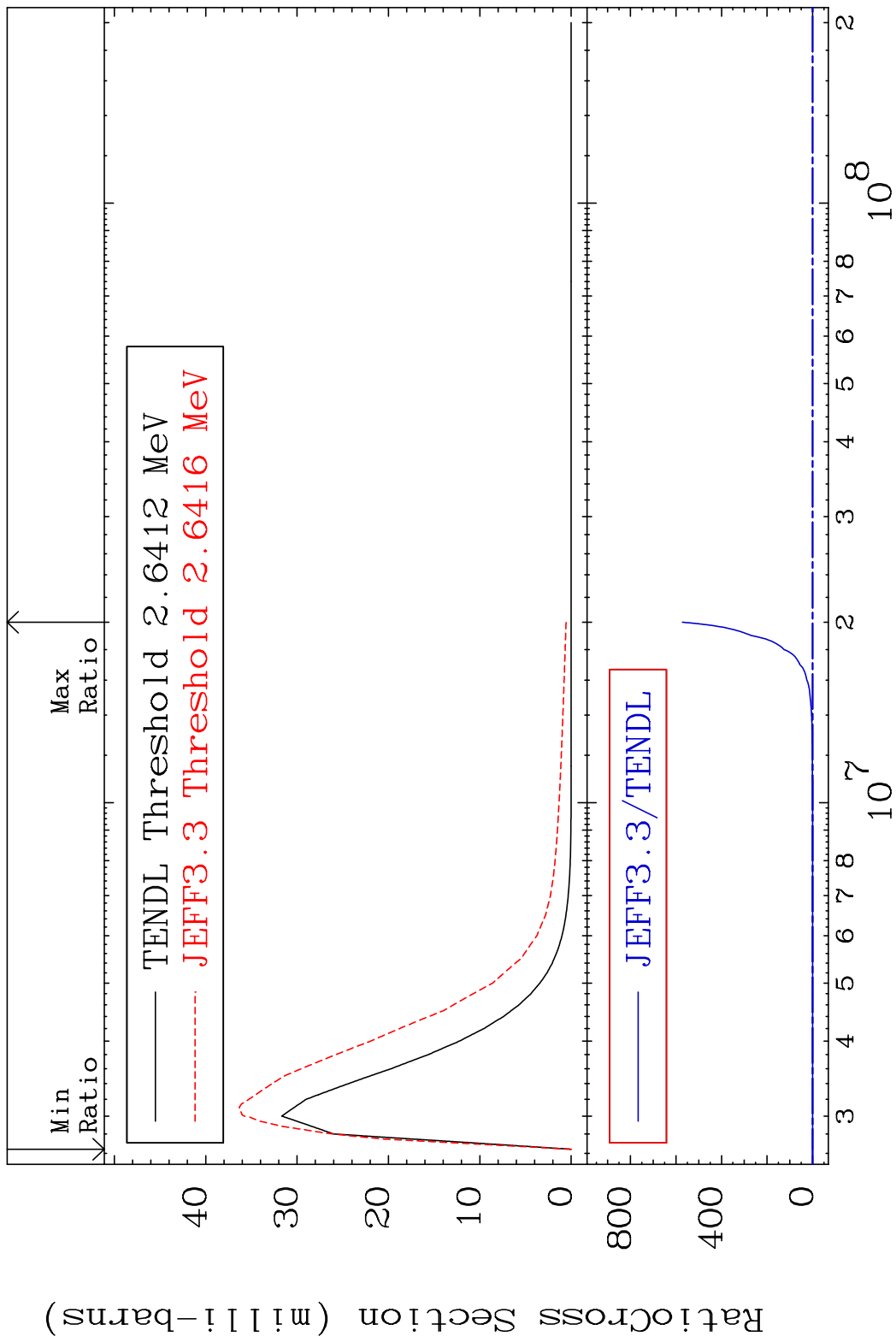
MAT 5025 MT= 58 (n, n') Level 50-Sn-112  
 Cross Section -100.0 To 73.39 %



MAT 5025 MT= 59 (n,n') Level 50-Sn-112  
 Cross Section -67.31 To 46.47 %

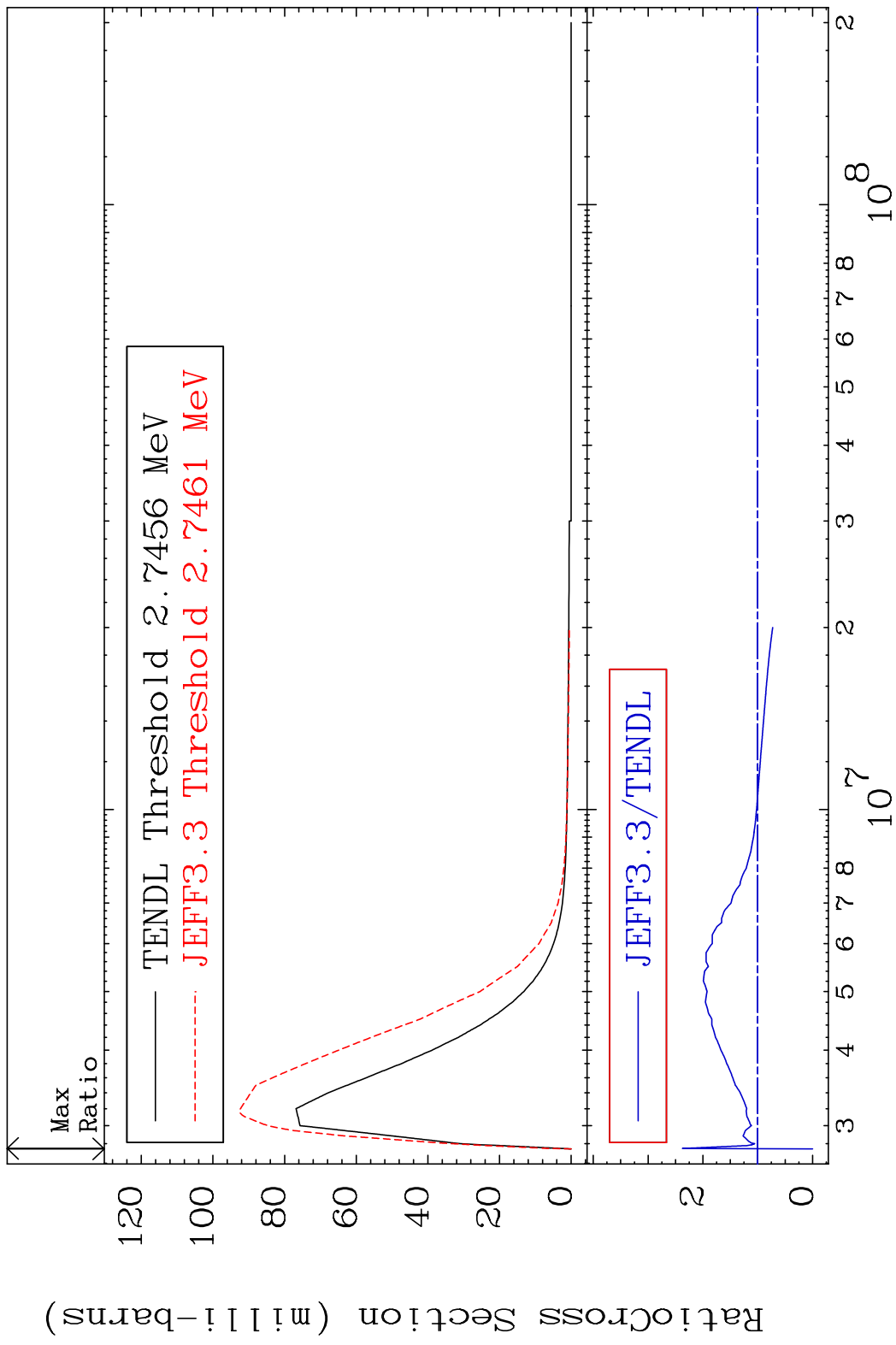


MAT 5025 MT= 60 (n, n') Level 50-Sn-112  
 Cross Section -100.0 To 9999. %

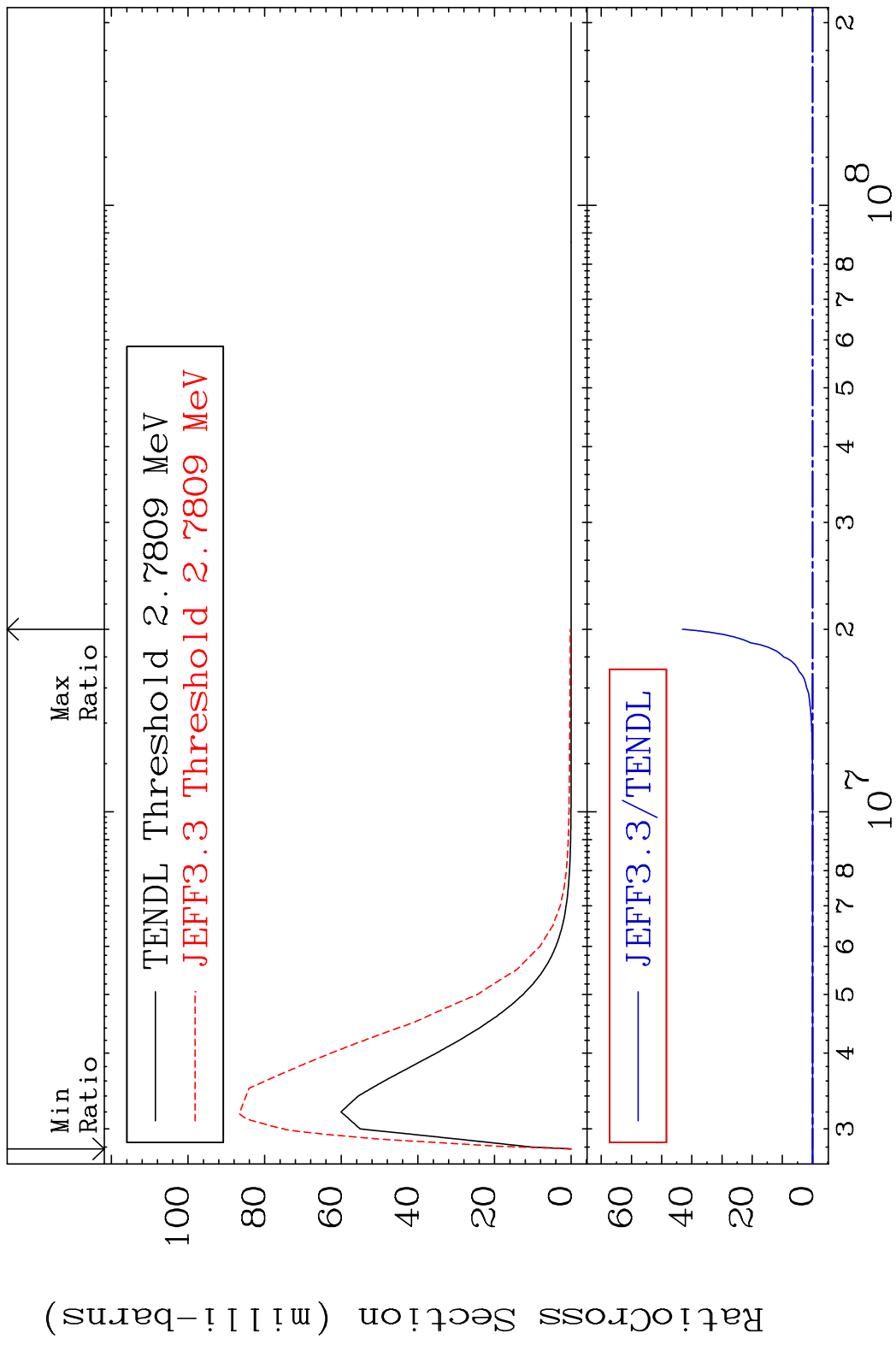


20 50-Sn-112

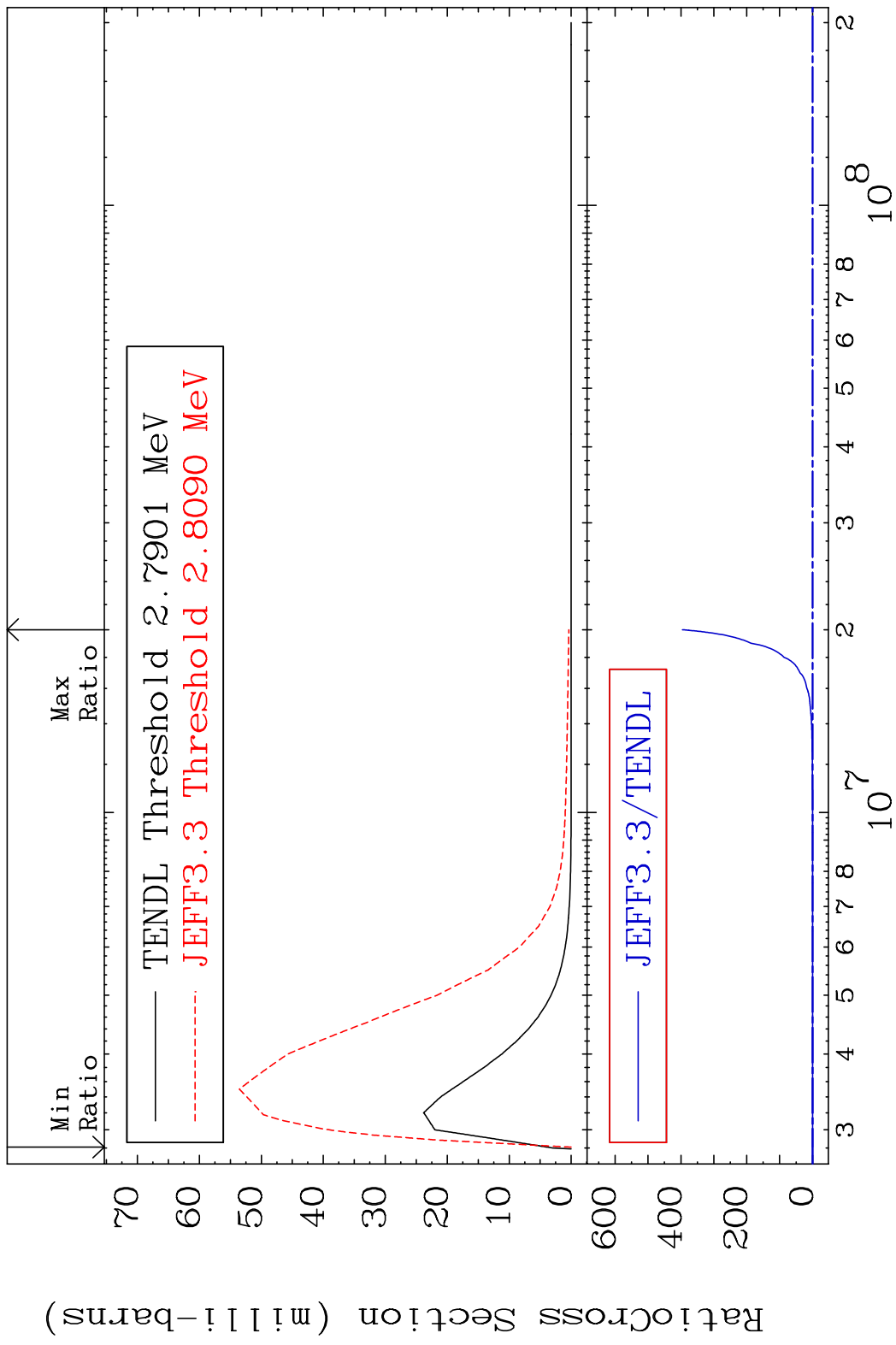
MAT 5025 MT= 61 (n, n') Level 50-Sn-112  
 Cross Section -100.0 To 137.5 %



MAT 5025 MT= 62 (n, n') Level 50-Sn-112  
 Cross Section -100.0 To 9999. %

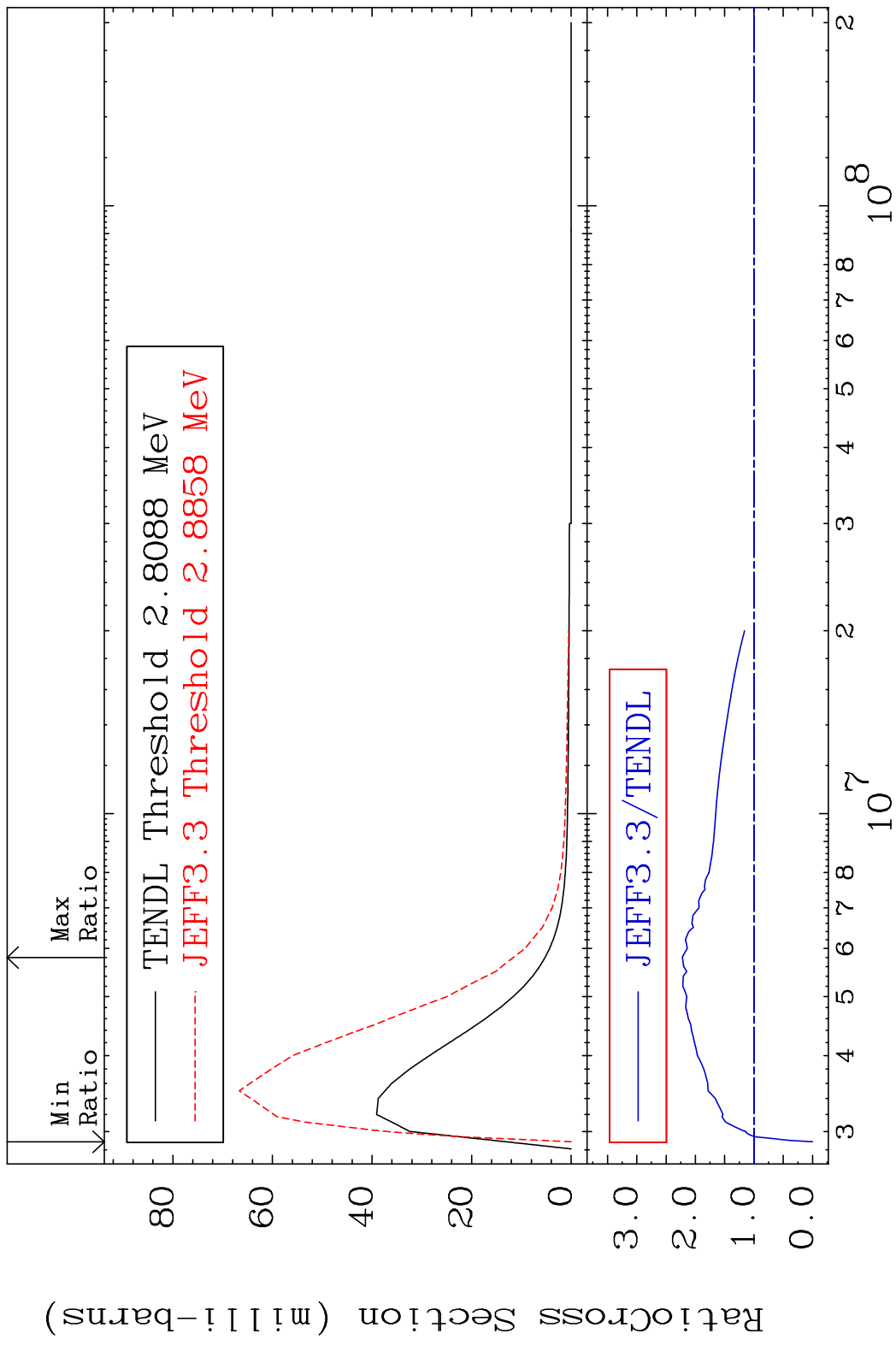


MAT 5025 MT= 63 (n, n') Level 50-Sn-112  
 Cross Section -100.0 To 9999. %

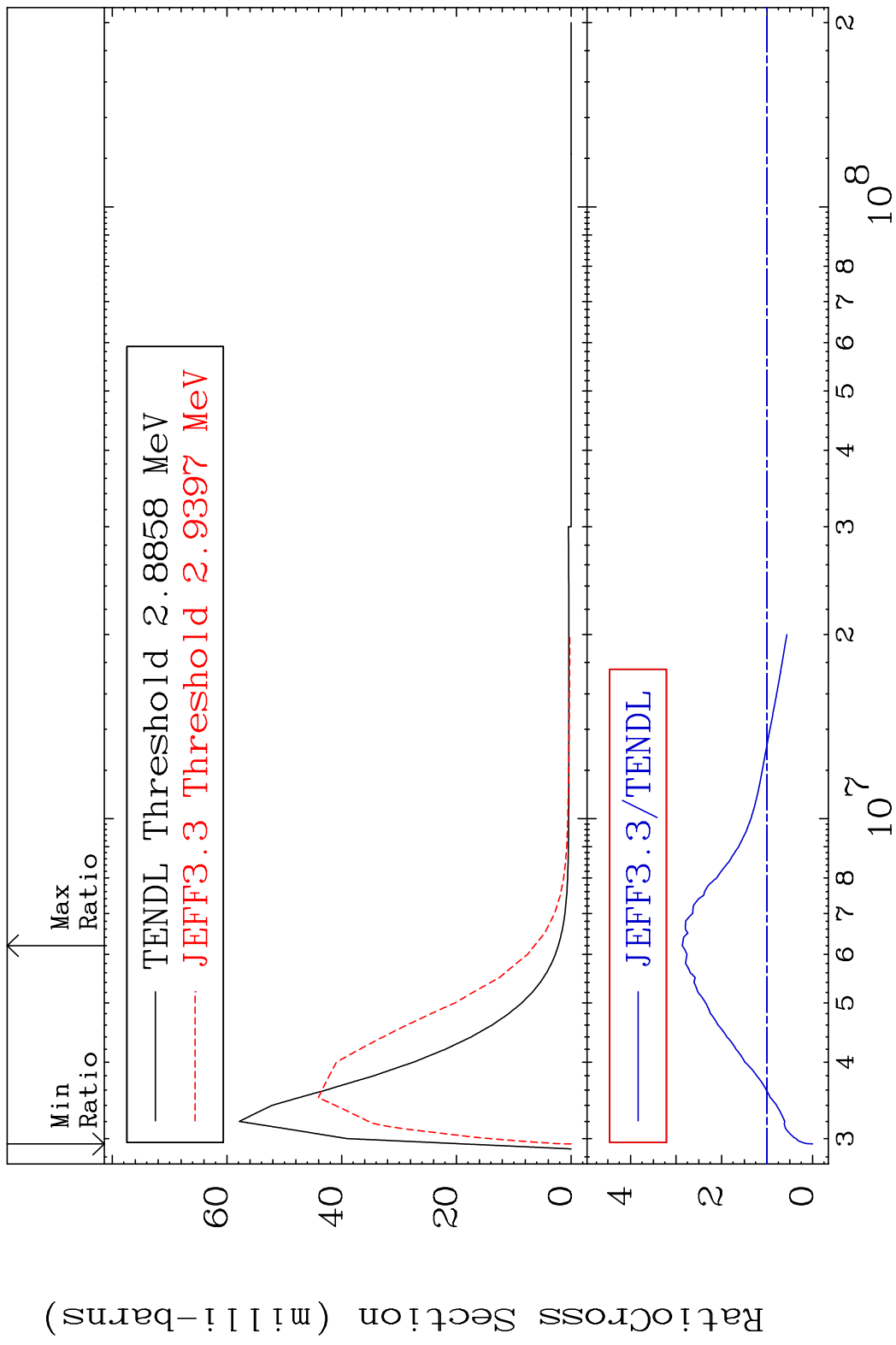




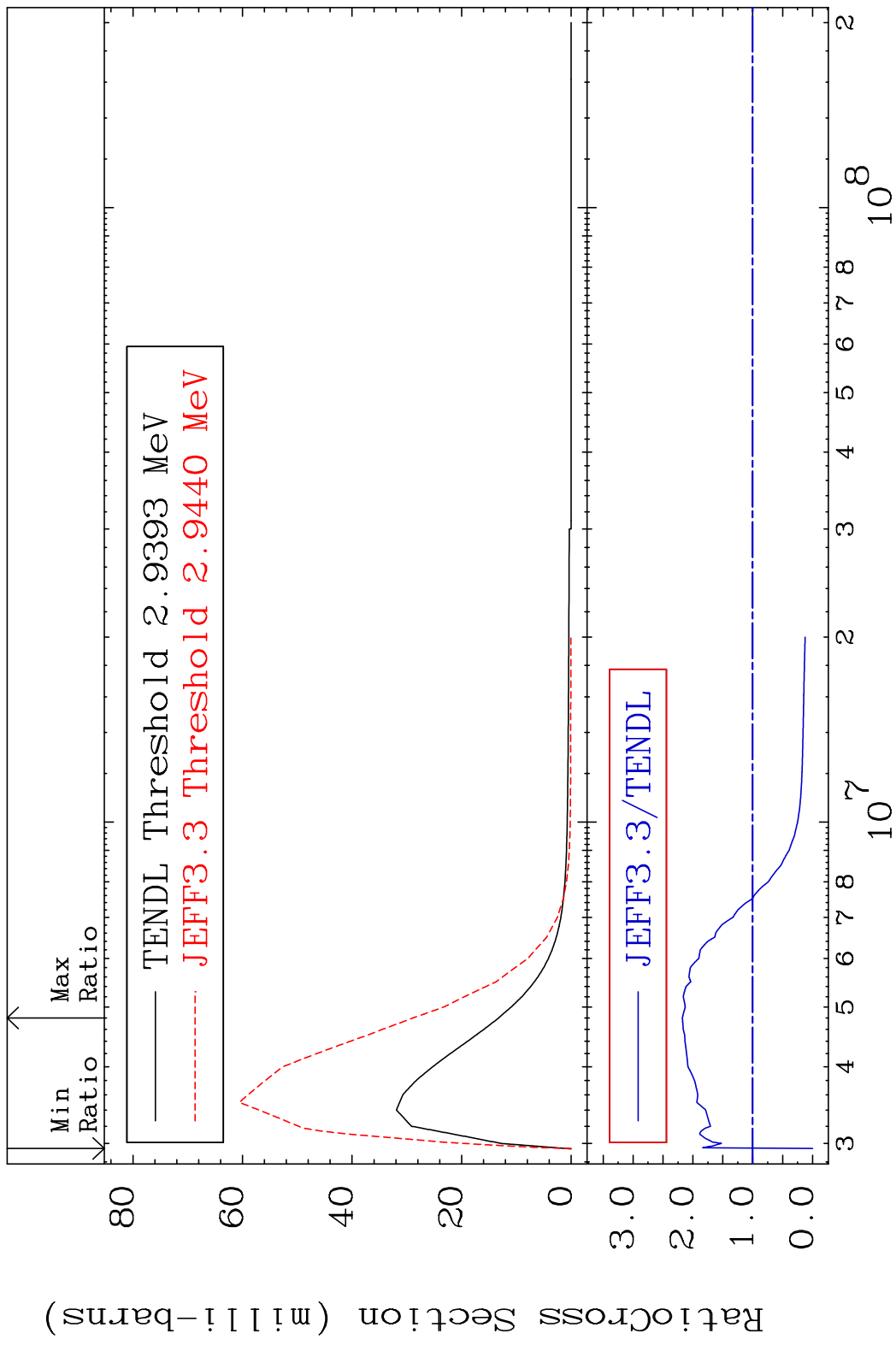
MAT 5025 MT= 64 (n, n') Level 50-Sn-112  
 Cross Section -100.0 To 122.2 %



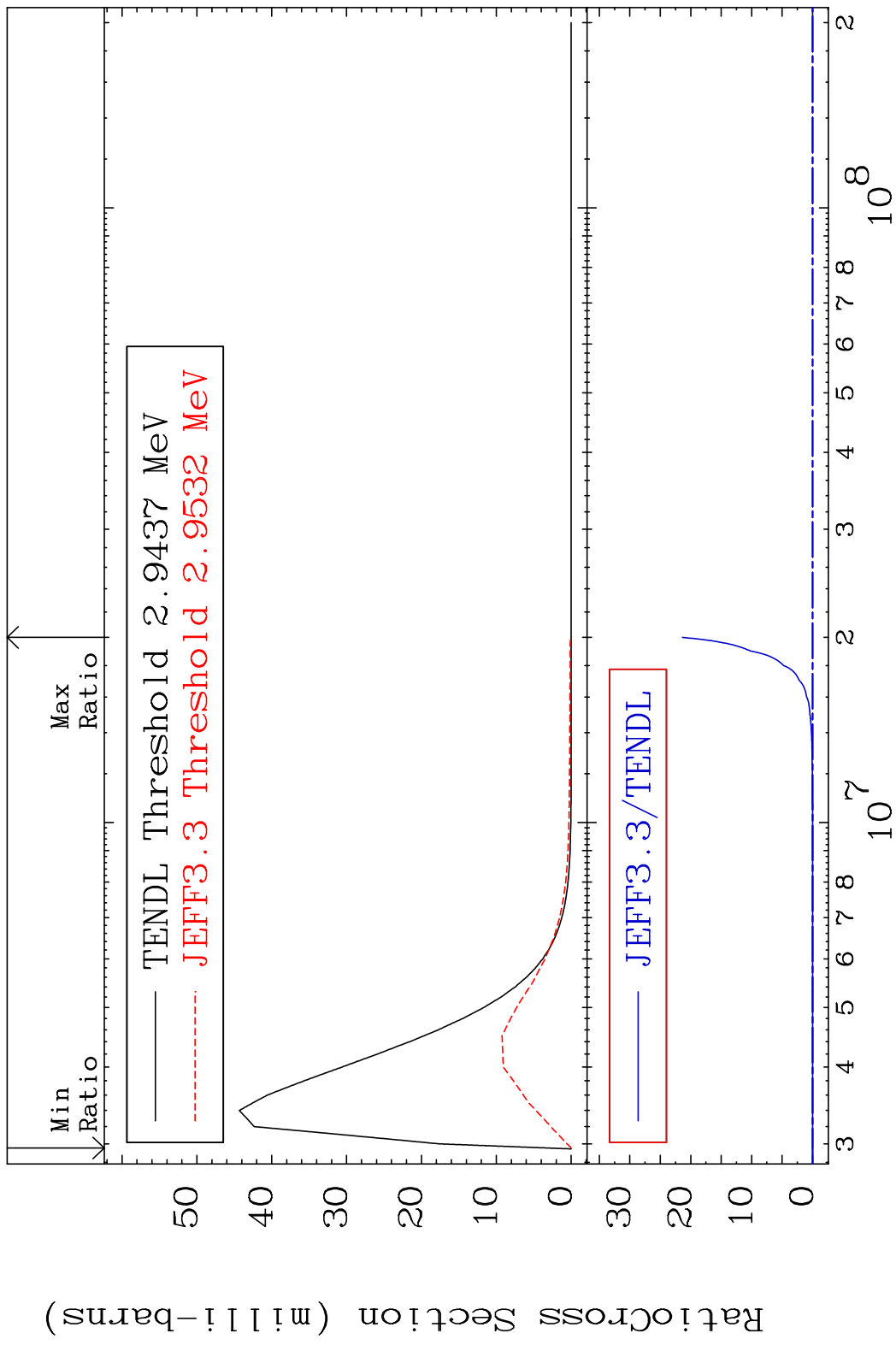
MAT 5025 MT= 65 (n,n') Level 50-Sn-112  
 Cross Section -100.0 To 186.3 %



MAT 5025 MT= 66 (n, n') Level 50-Sn-112  
 Cross Section -100.0 To 117.6 %



MAT 5025 MT= 67 (n, n') Level 50-Sn-112  
 Cross Section -100.0 To 9999. %

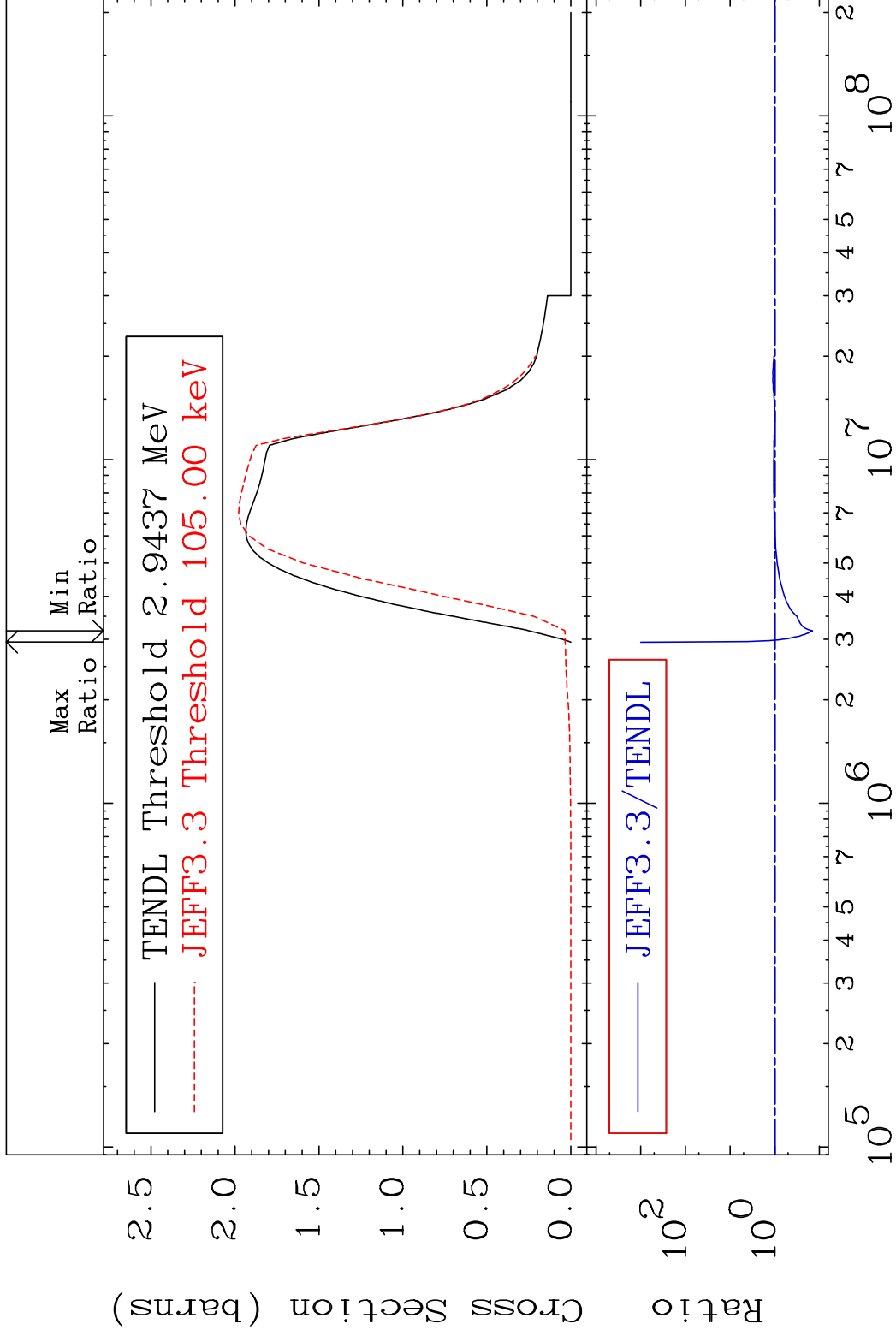


MAT 5025

(n,n') Continuum

50-Sn-112

Cross Section -85.69 To 9999. %



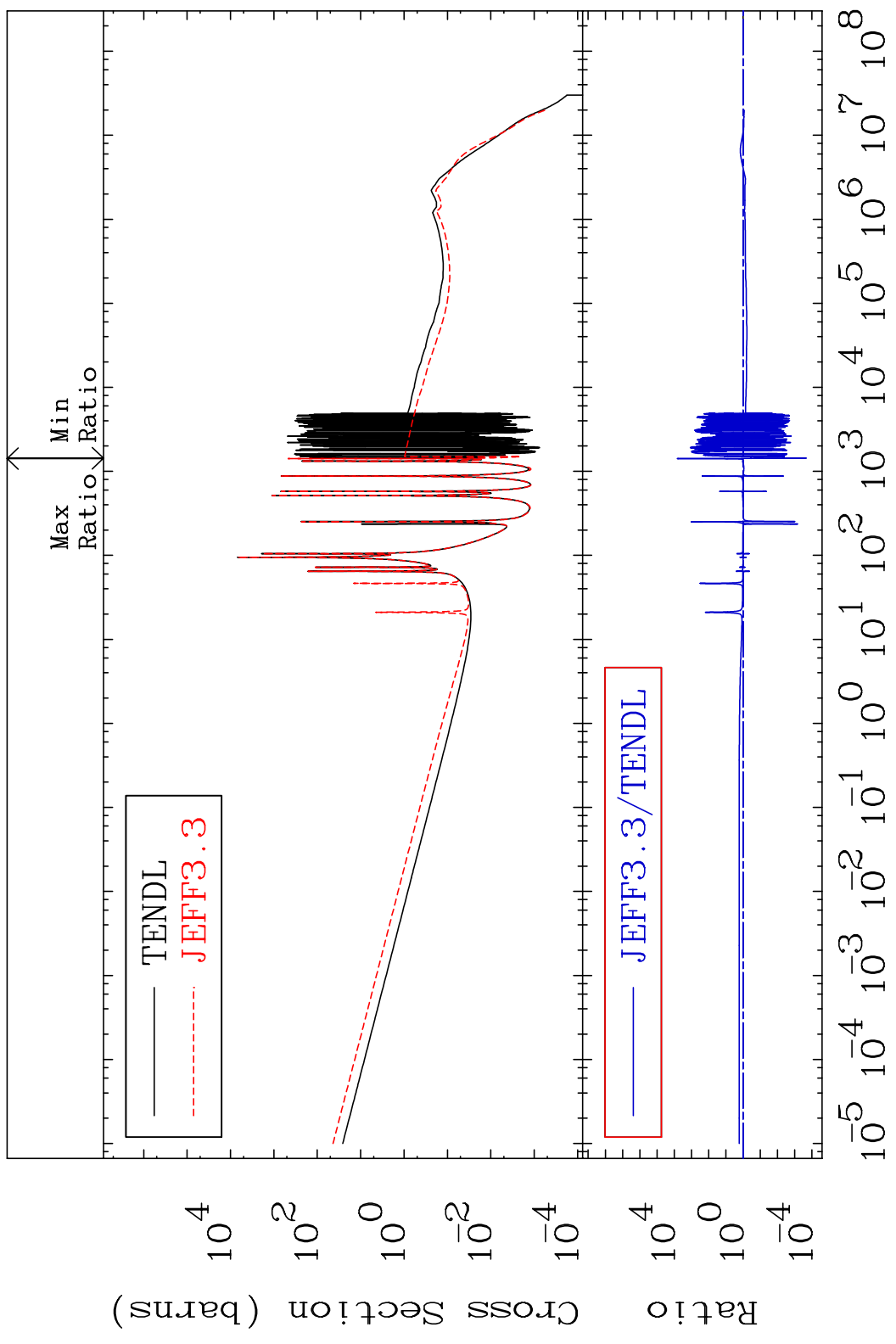
28

Incident Energy (eV)

50-Sn-112

MAT 5025

(n,  $\gamma$ )  
Cross Section -99.98 To 9999. %  
50-Sn-112



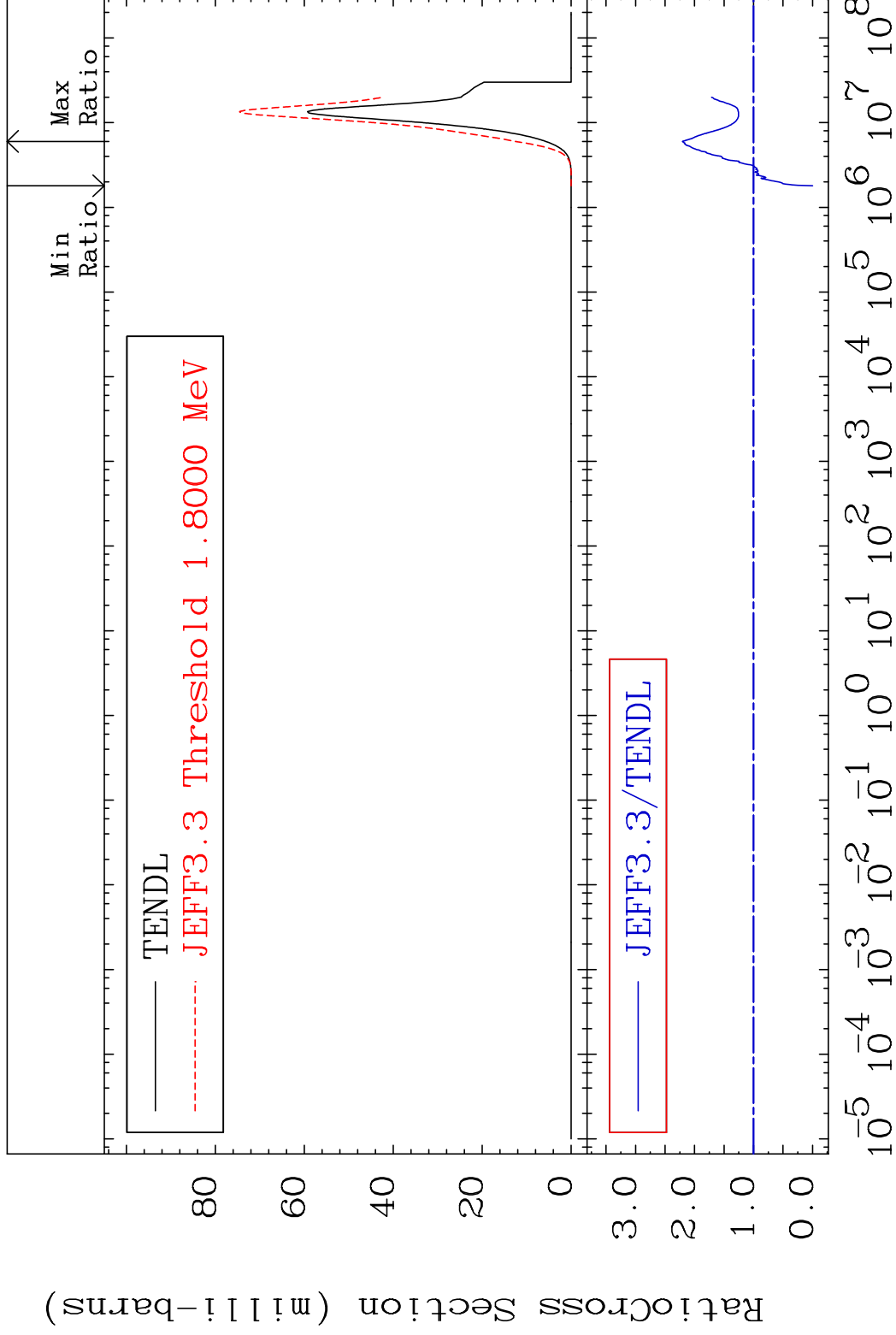
MAT 5025

(n, p)

50-Sn-112

Cross Section

-100.0 To 120.7 %

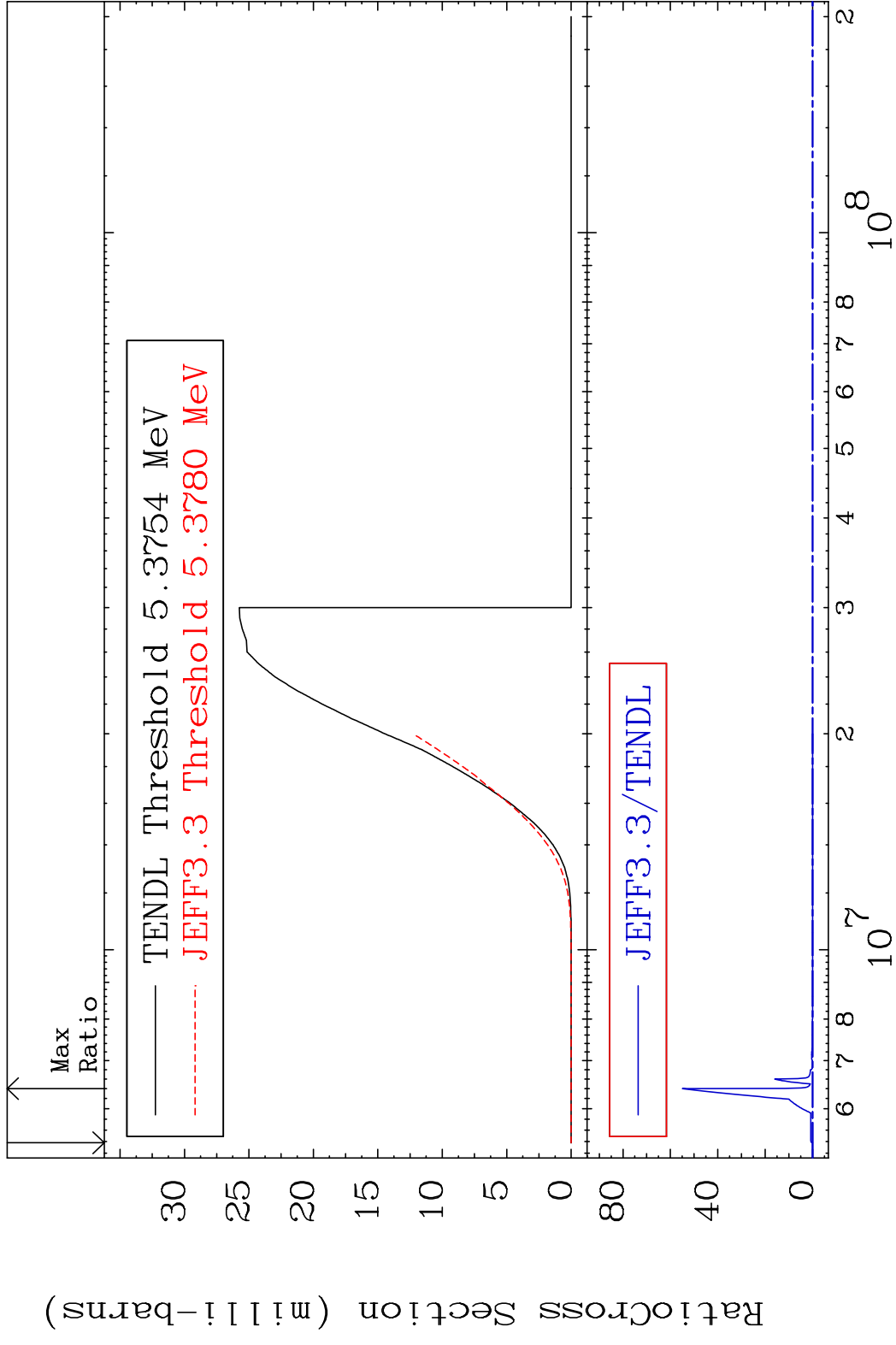


30

Incident Energy (eV)

50-Sn-112

MAT 5025 (n,d) 50-Sn-112  
 Cross Section -100.0 To 9999. %

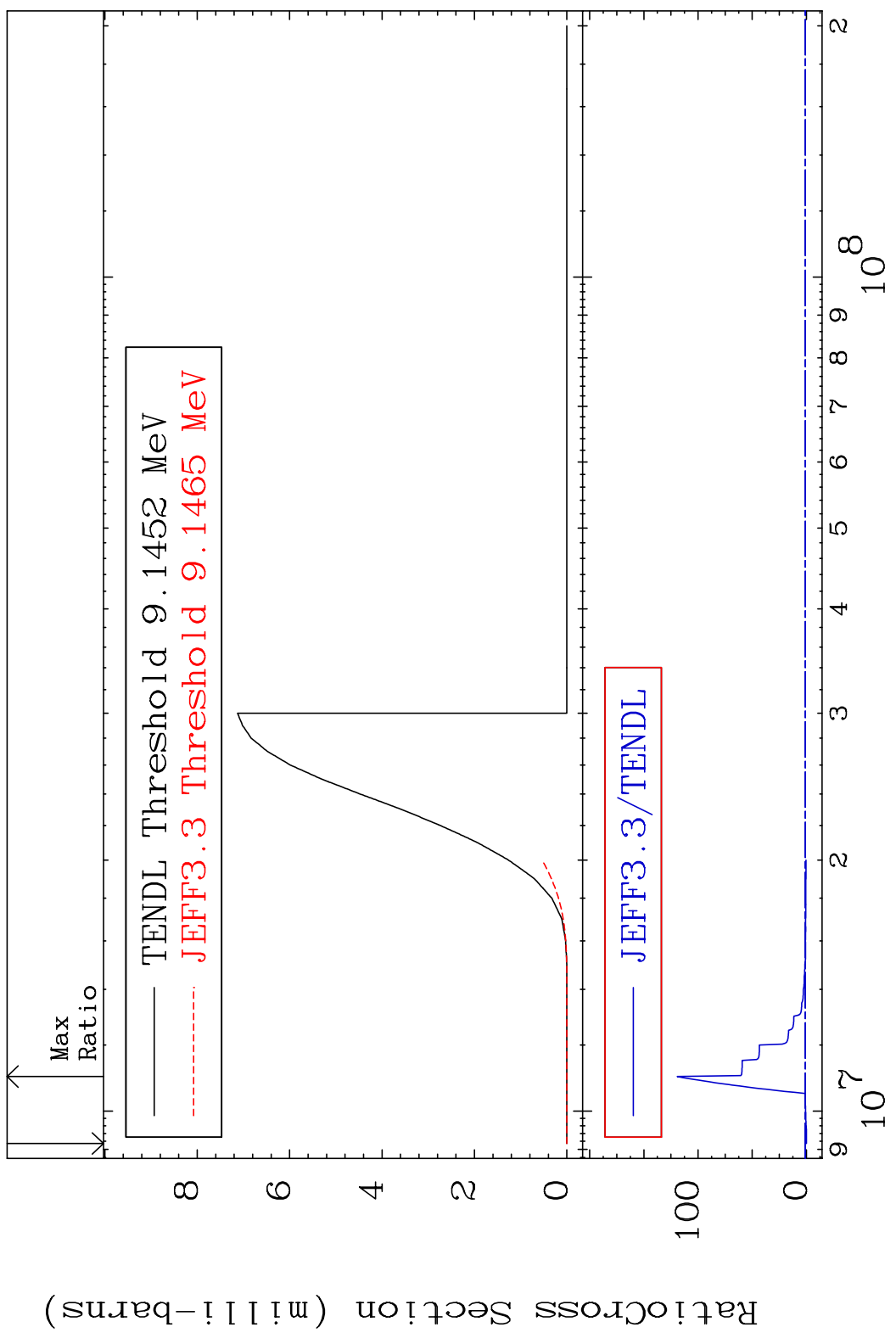




MAT 5025

(n, t) 50-Sn-112

Cross Section -100.0 To 9999. %

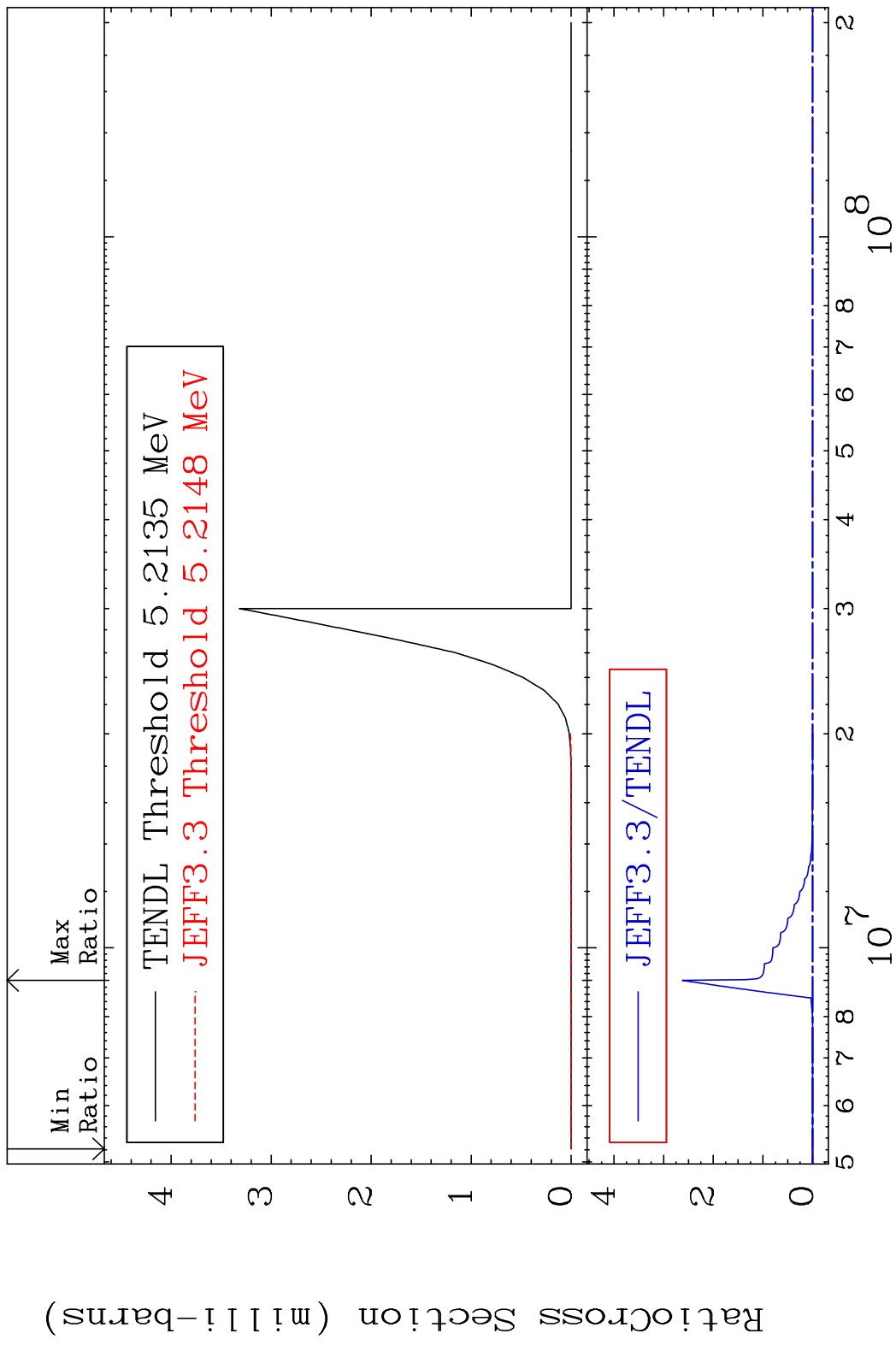


32

Incident Energy (eV)

50-Sn-112

MAT 5025 (n, He-3) 50-Sn-112  
 Cross Section -100.0 To 9999. %

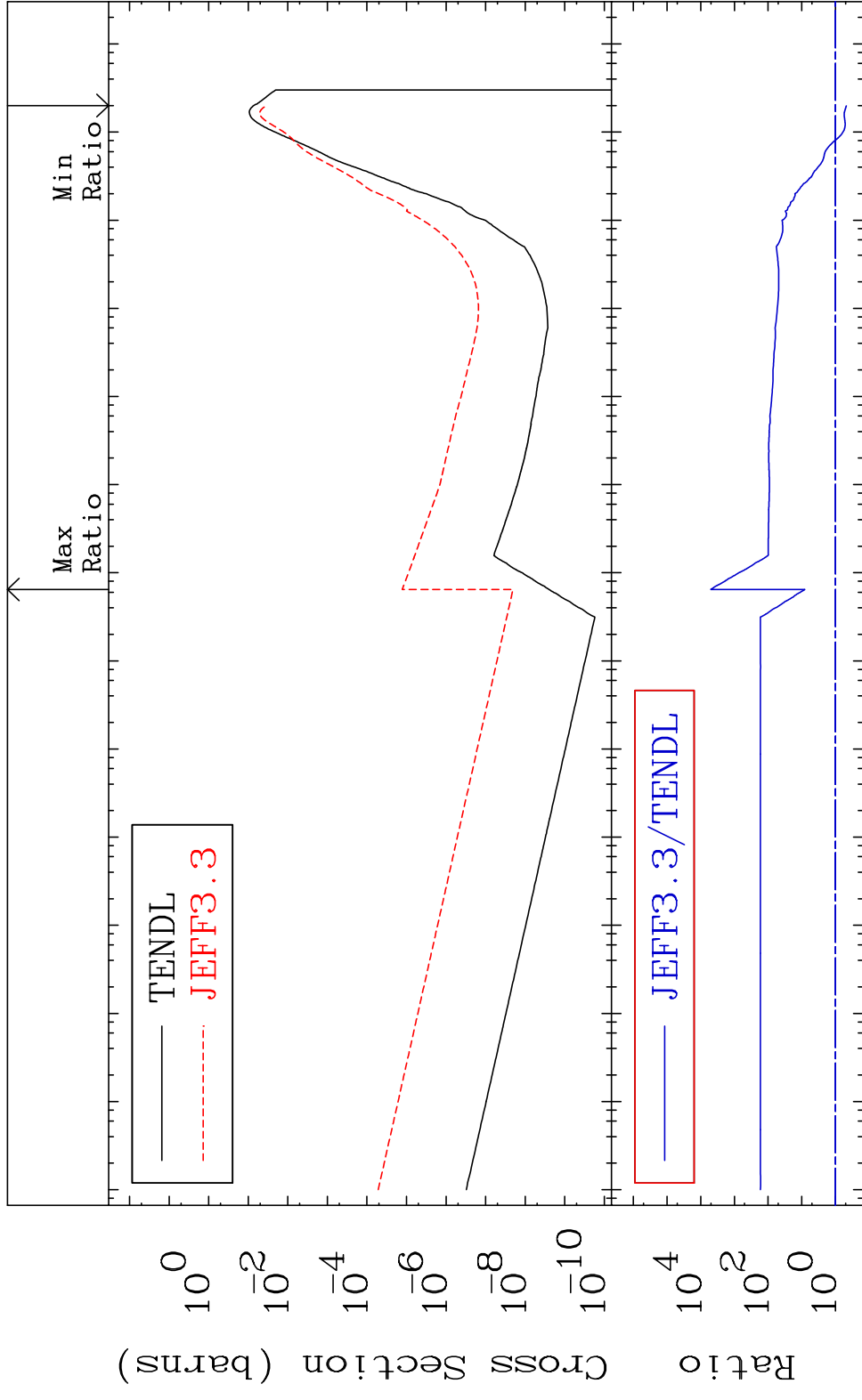


MAT 5025

50-Sn-112

(n,  $\alpha$ )

Cross Section -52.40 To 9999. %



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> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

34

Incident Energy (eV)

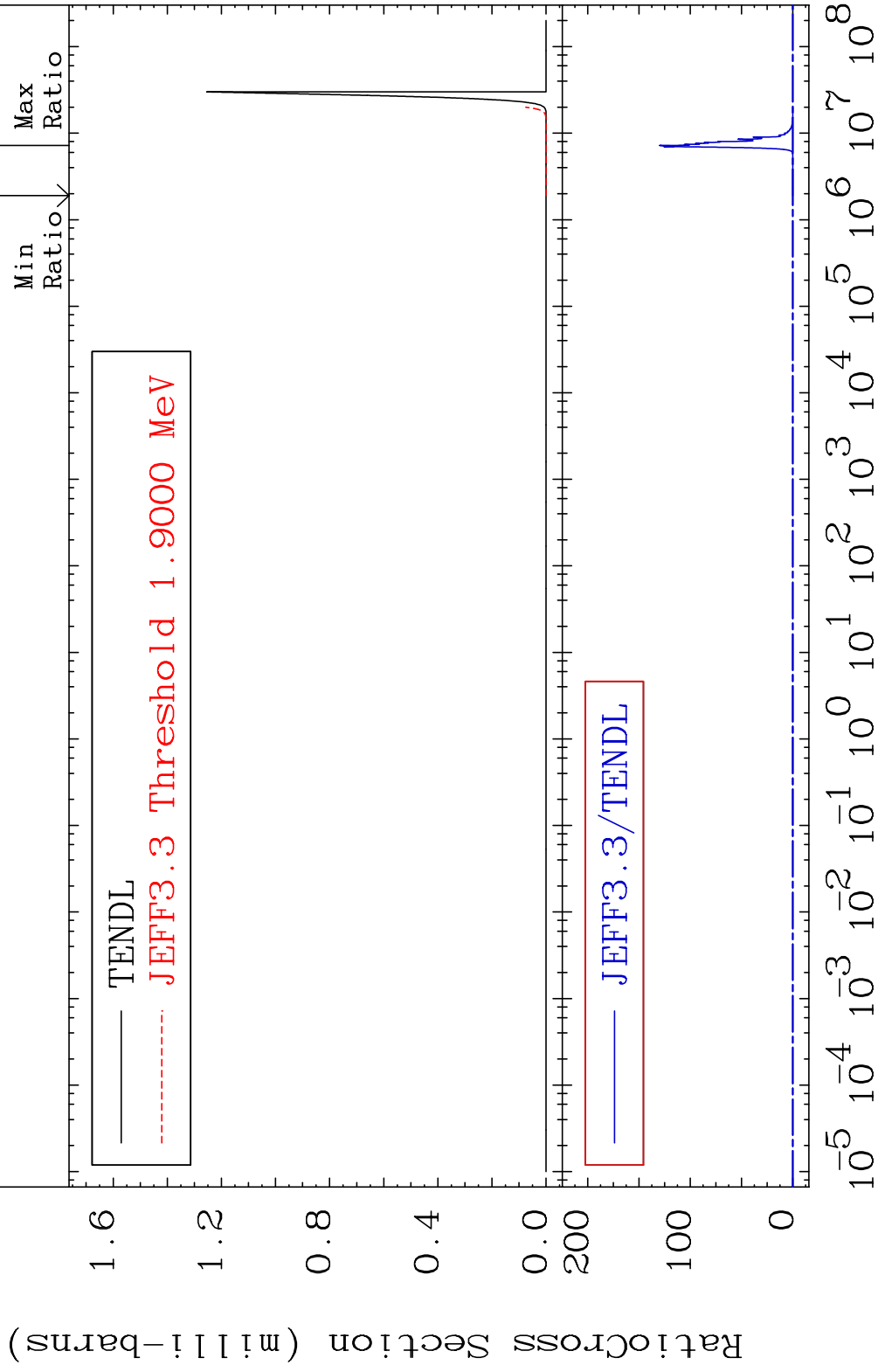
50-Sn-112

MAT 5025

(n,2α)

50-Sn-112

Cross Section -100.0 To 9999. %



35

Incident Energy (eV)

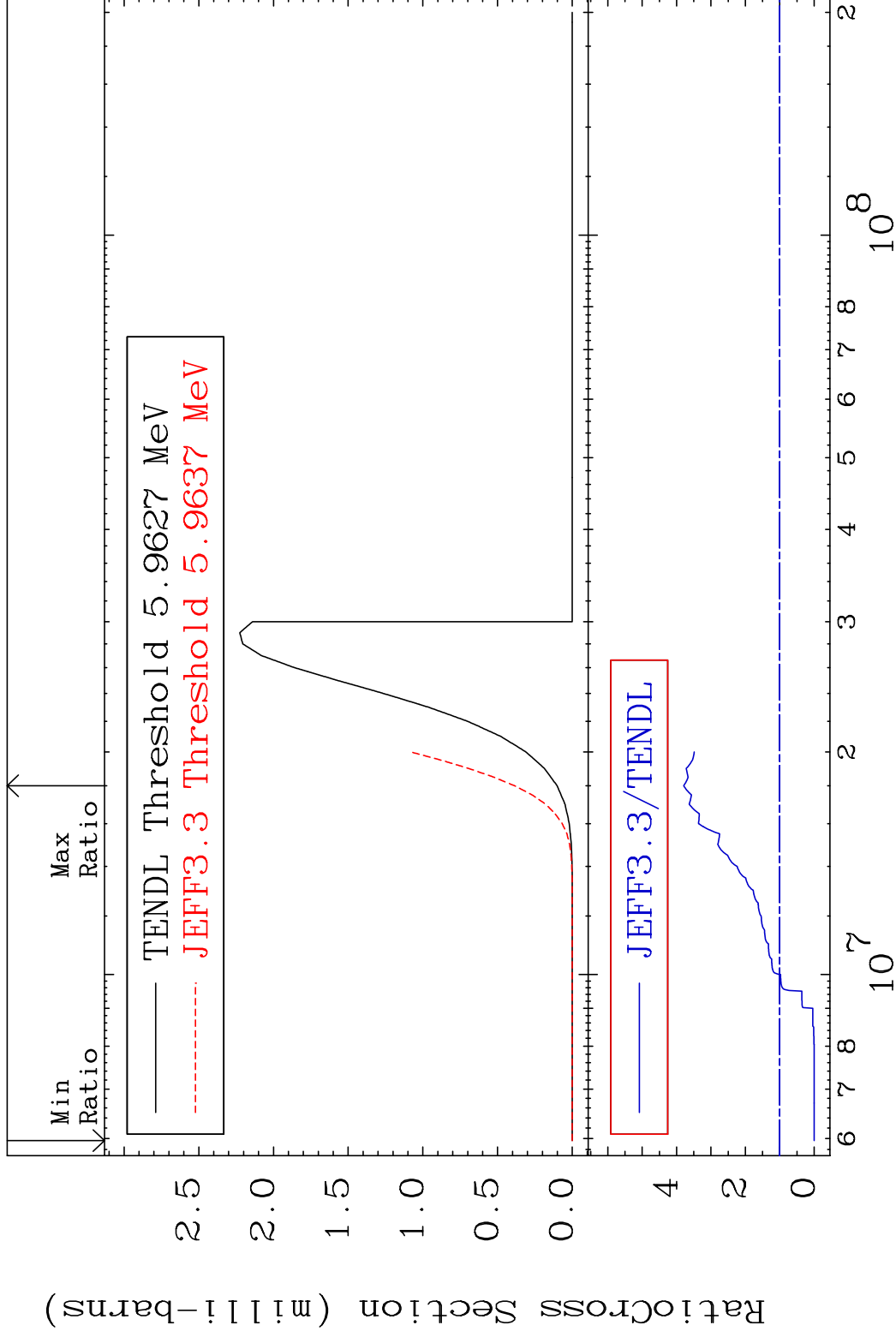
50-Sn-112

MAT 5025

(n,2p)

50-Sn-112

Cross Section -100.0 To 279.4 %

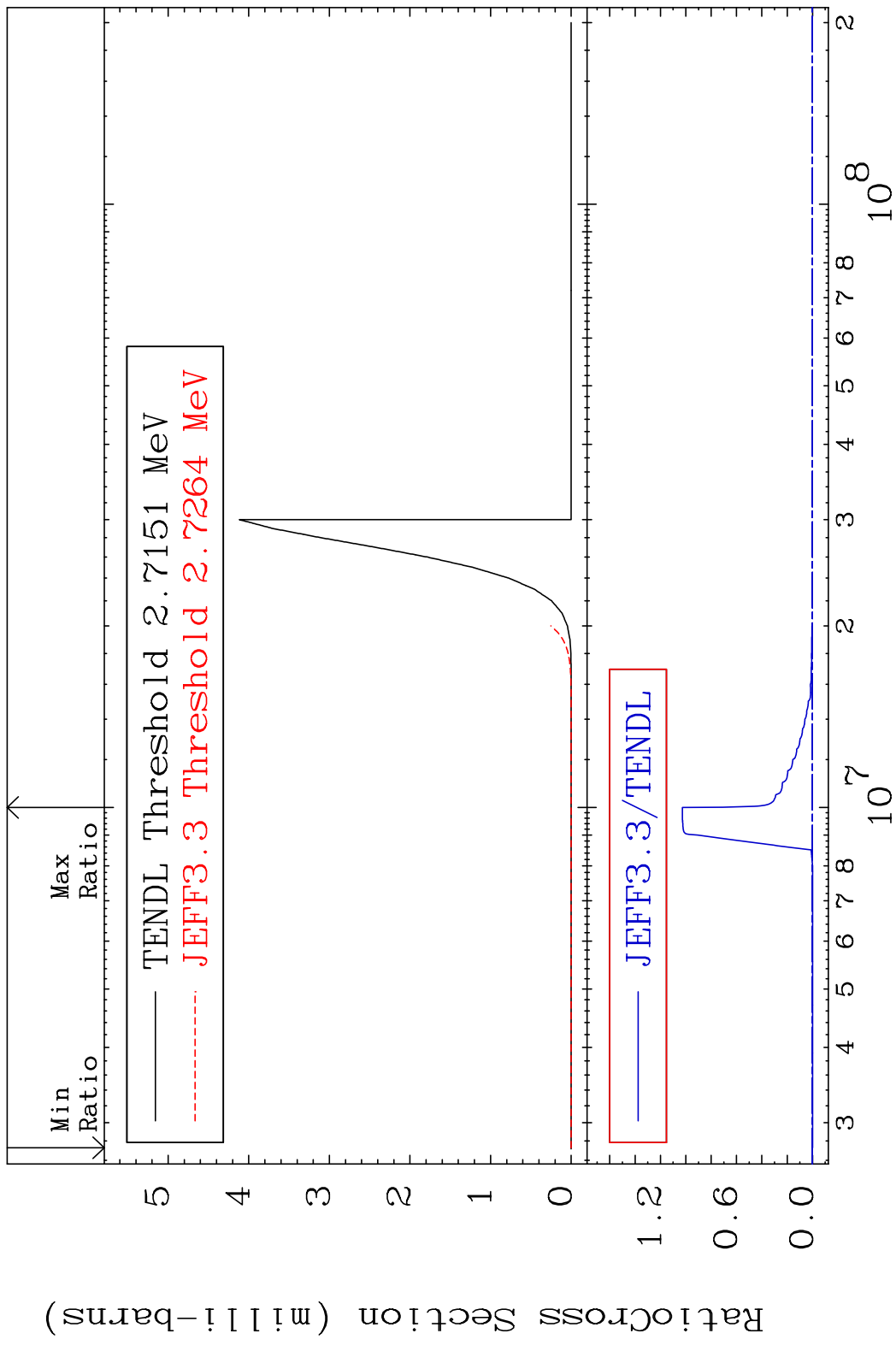


36

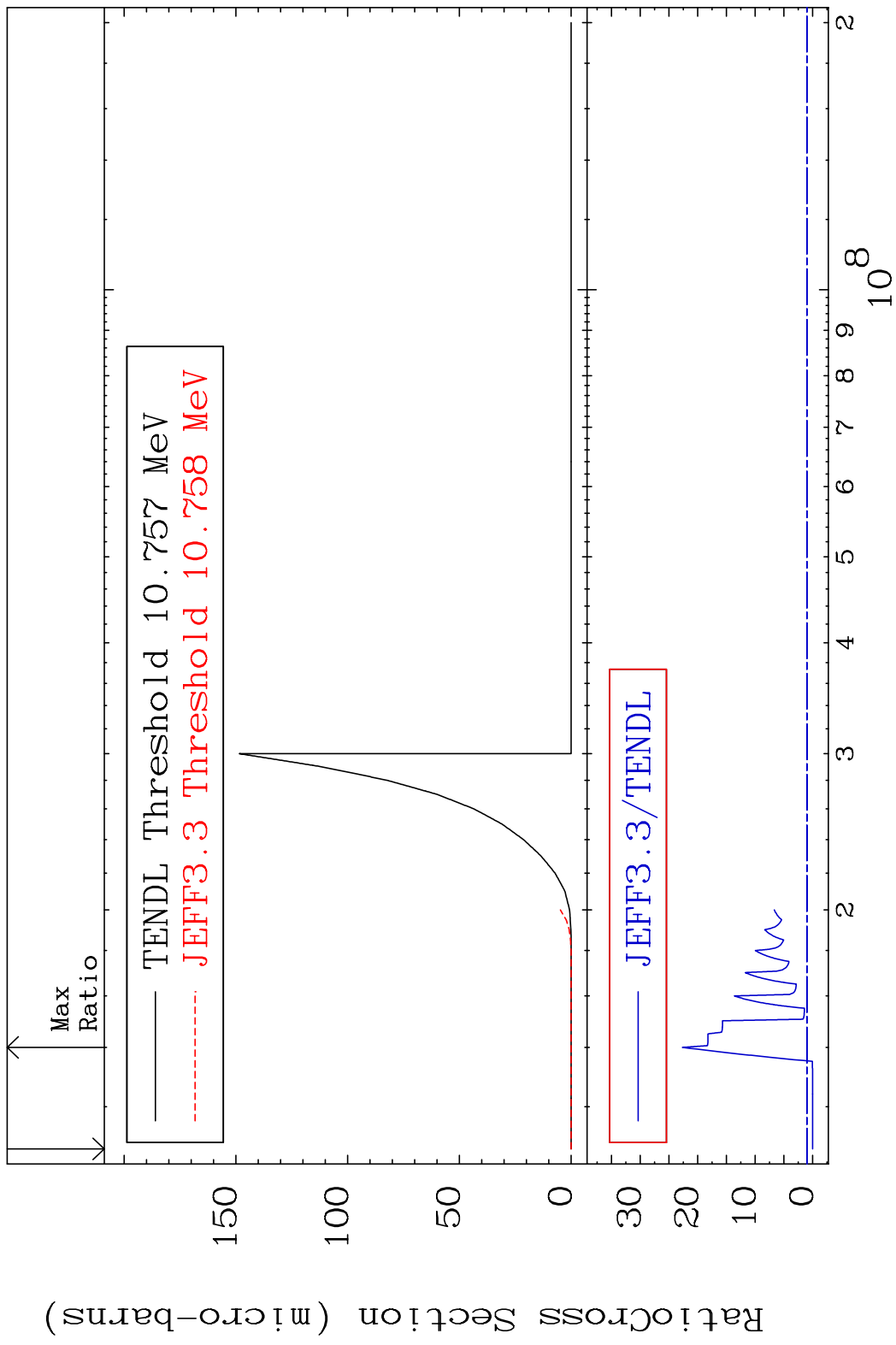
Incident Energy (eV)

50-Sn-112

MAT 5025 (n,p)  $\alpha$  50-Sn-112  
 Cross Section -100.0 To 9999. %



MAT 5025 (n,p) d 50-Sn-112  
 Cross Section -100.0 To 2165. %

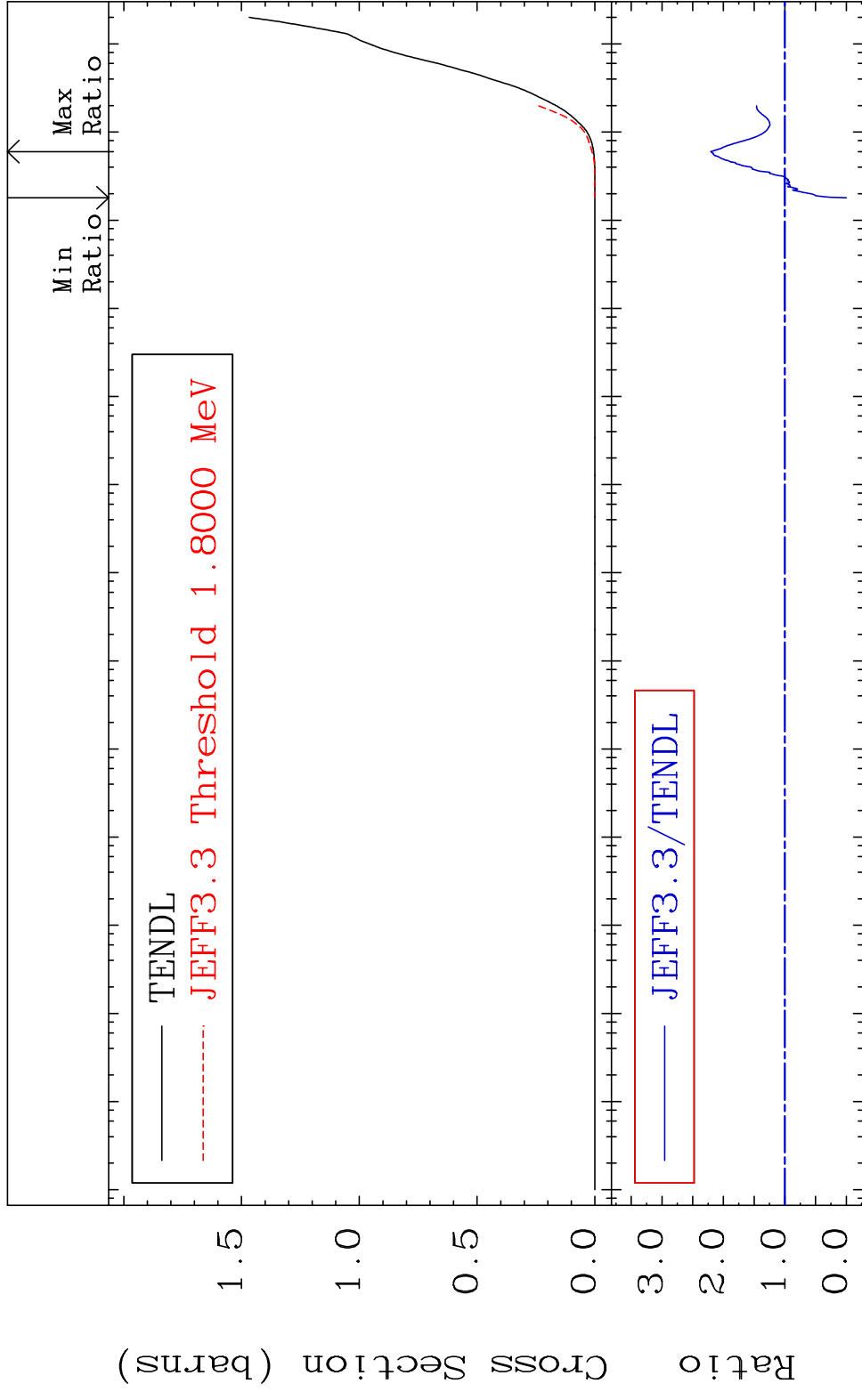


MAT 5025

Hydrogen Production

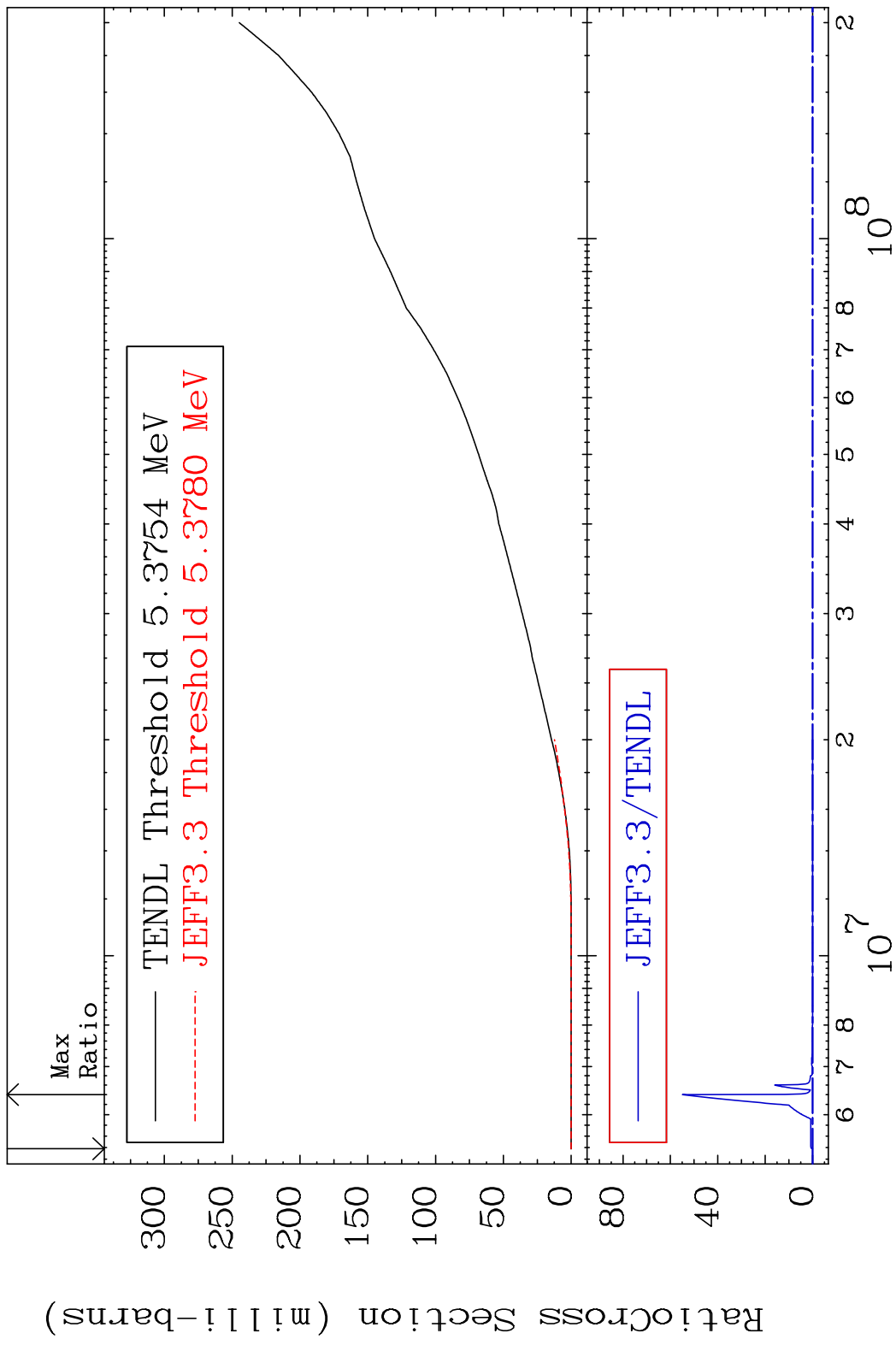
50-Sn-112

Cross Section -100.0 To 120.7 %



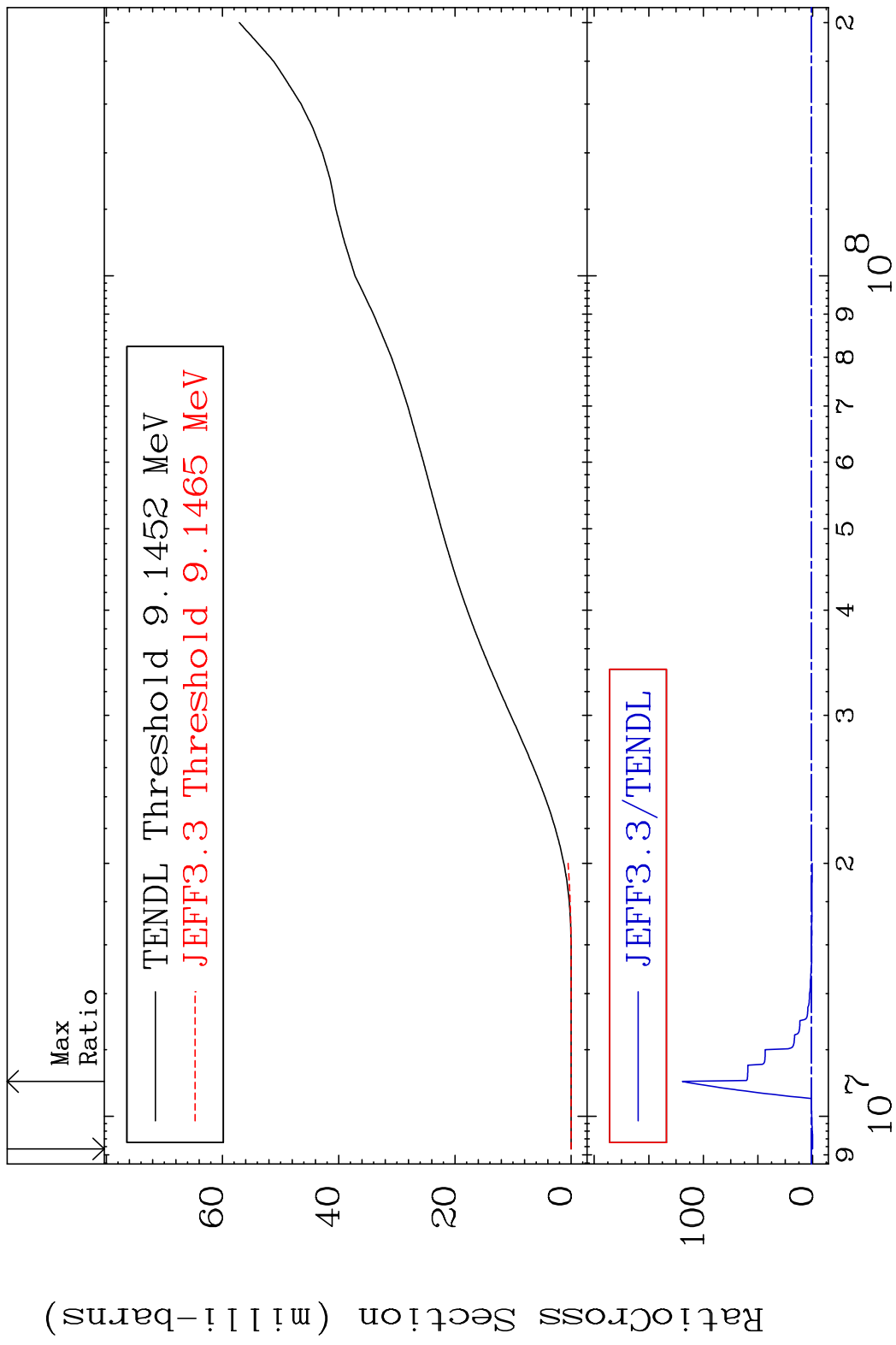


MAT 5025 Deuterium Production 50-Sn-112  
Cross Section -100.0 To 9999. %



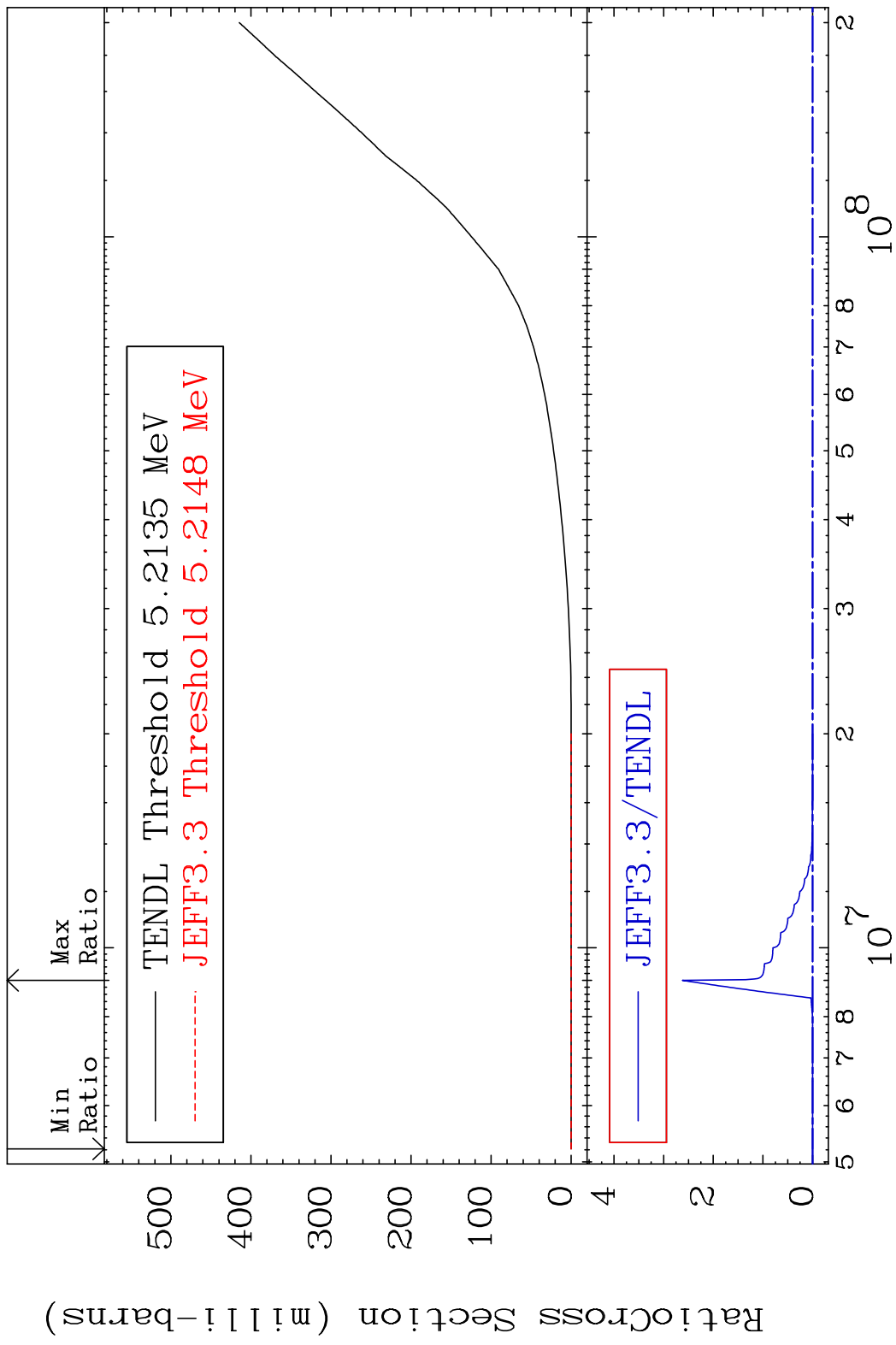
40 6 7 8 10<sup>7</sup> 2 3 4 5 6 7 8 10<sup>8</sup> 2

MAT 5025 Tritium Production 50-Sn-112  
Cross Section -100.0 To 9999. %



41 50-Sn-112

MAT 5025 He-3 Production 50-Sn-112  
 Cross Section -100.0 To 9999. %

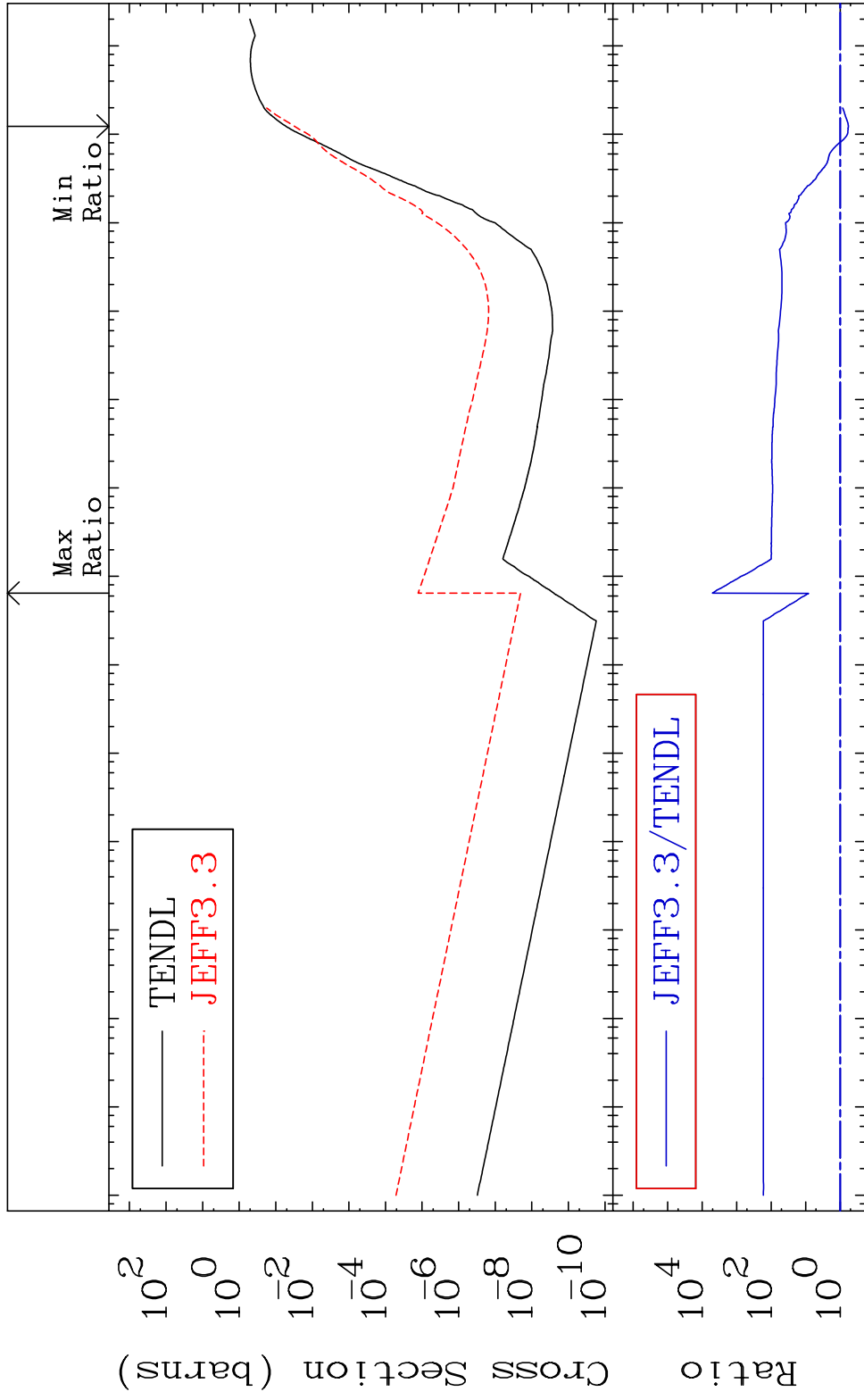


MAT 5025

He-4 Production

50-Sn-112

Cross Section -42.00 To 9999. %

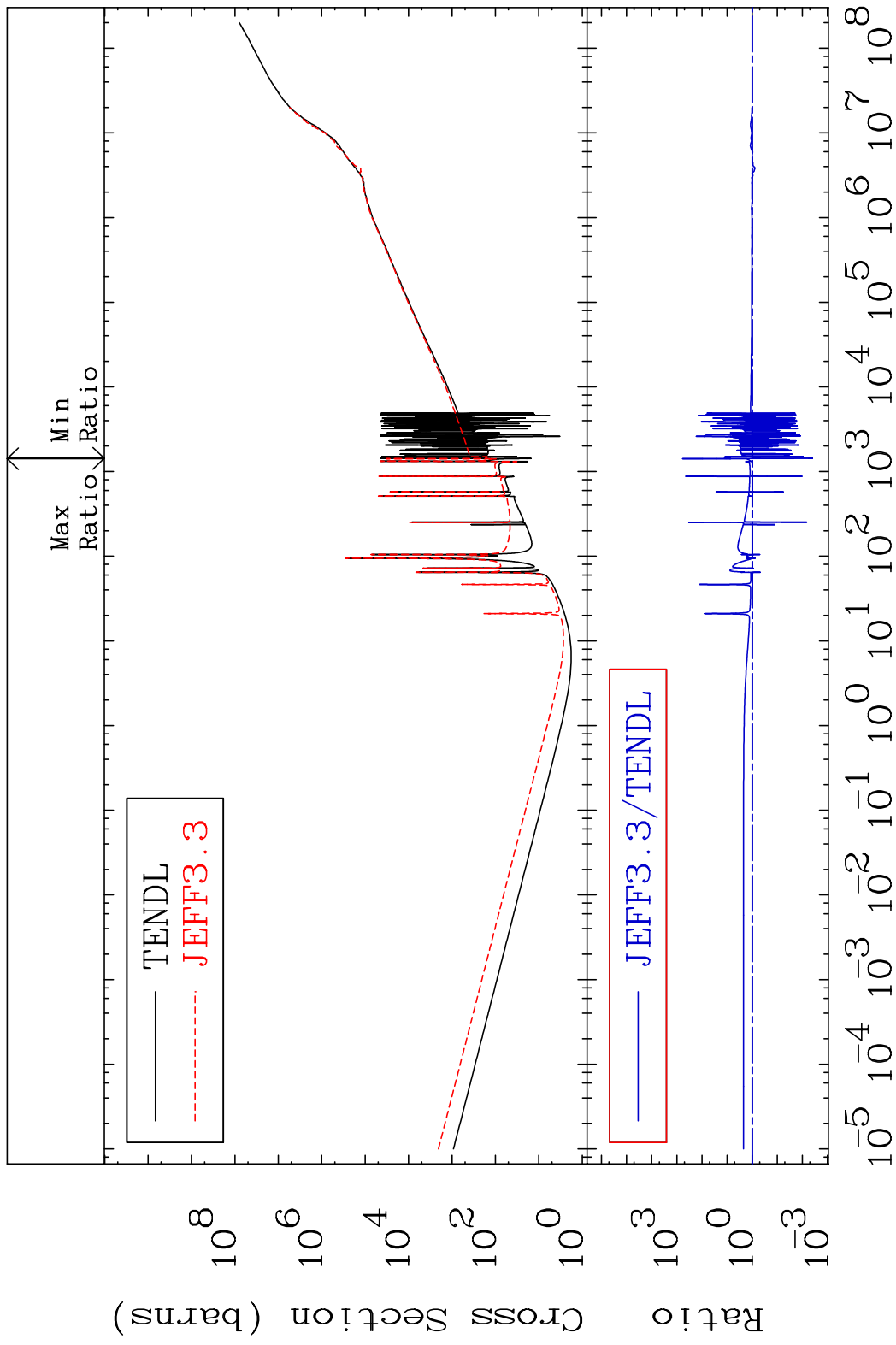


43

Incident Energy (eV)

50-Sn-112

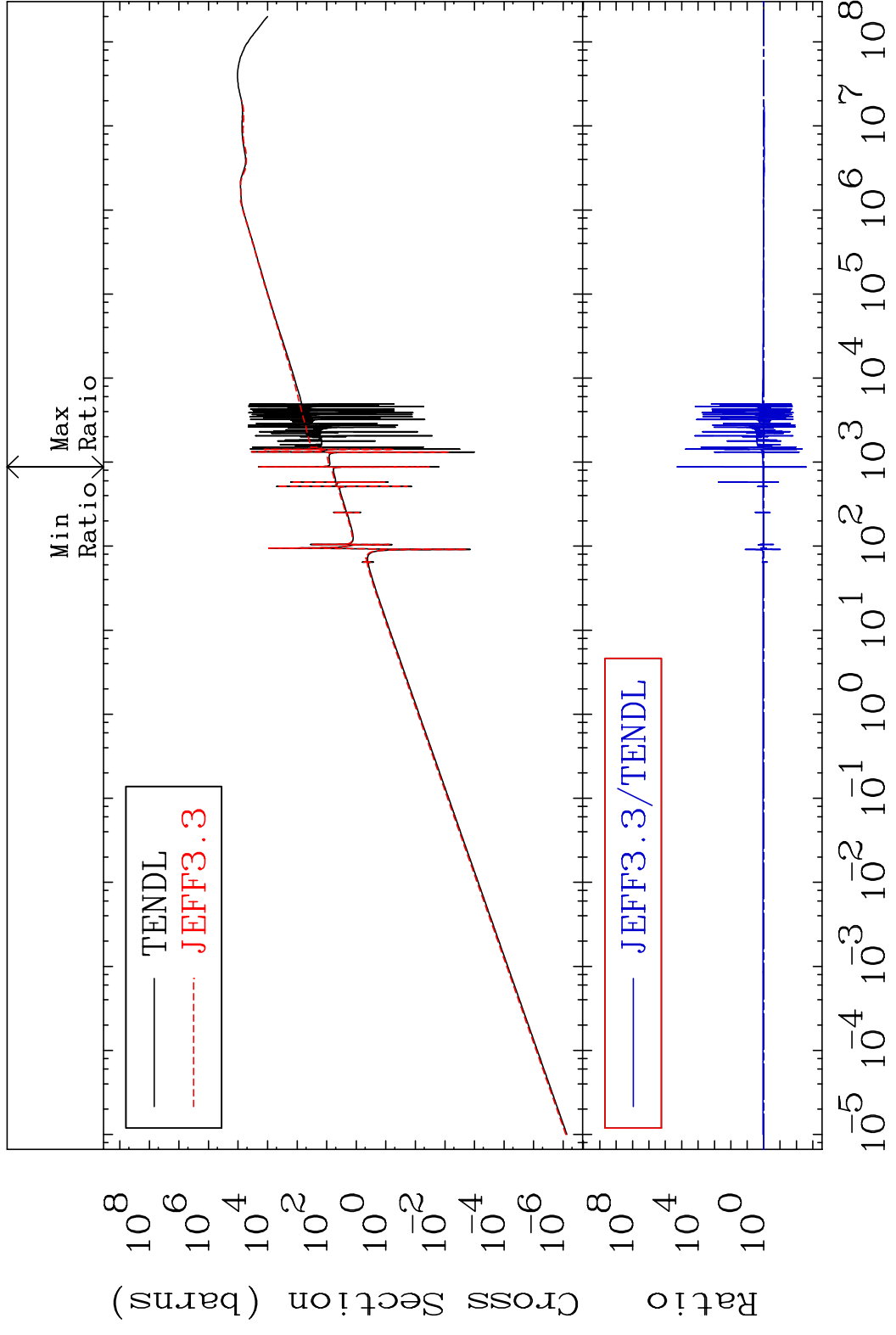
MAT 5025 Kerma total (eV-barns) 50-Sn-112  
 Cross Section -99.61 To 9999. %



MAT 5025

Kerma elastic  
Cross Section

50-Sn-112  
-99.75 To 9999. %

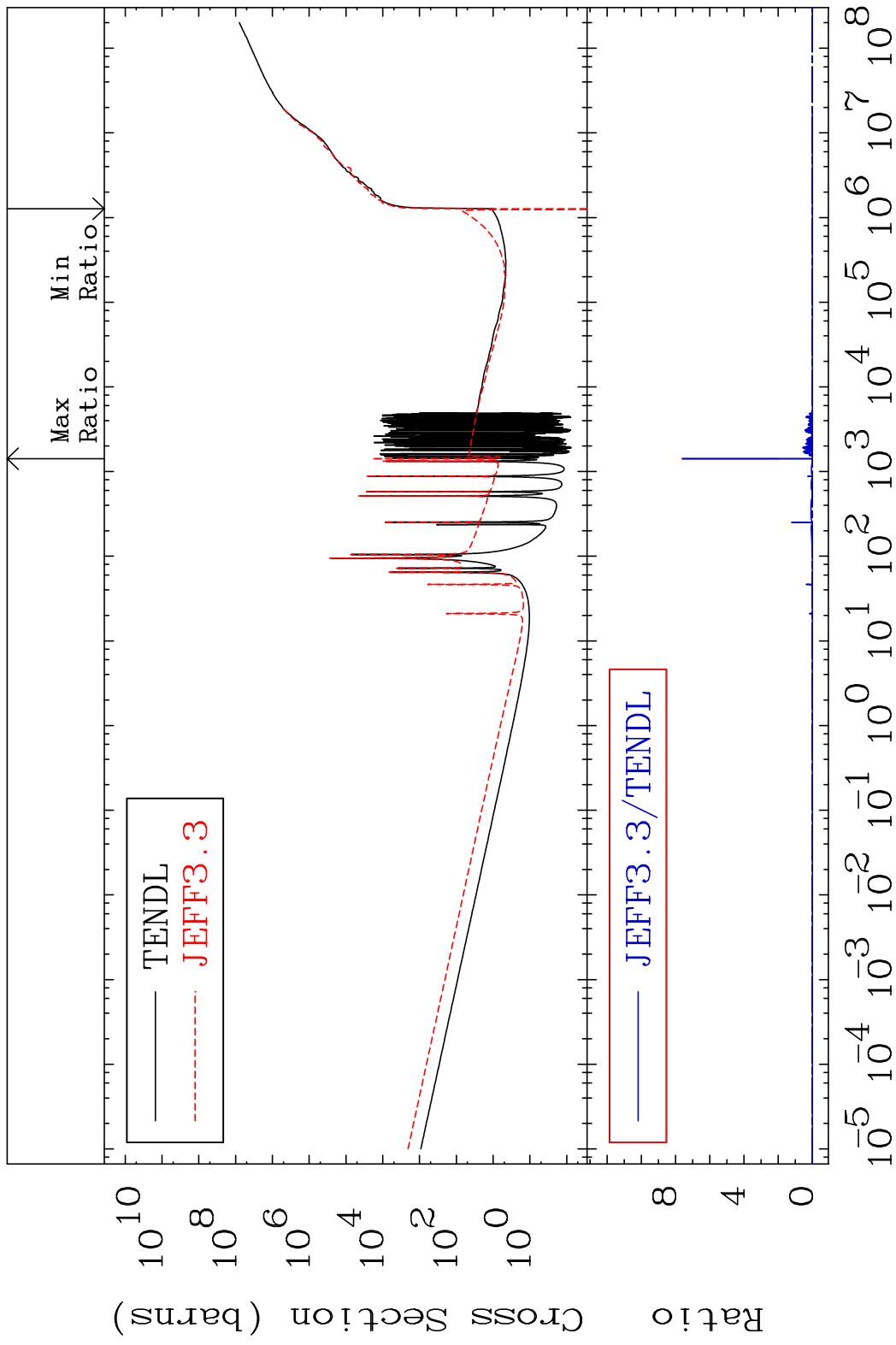


45

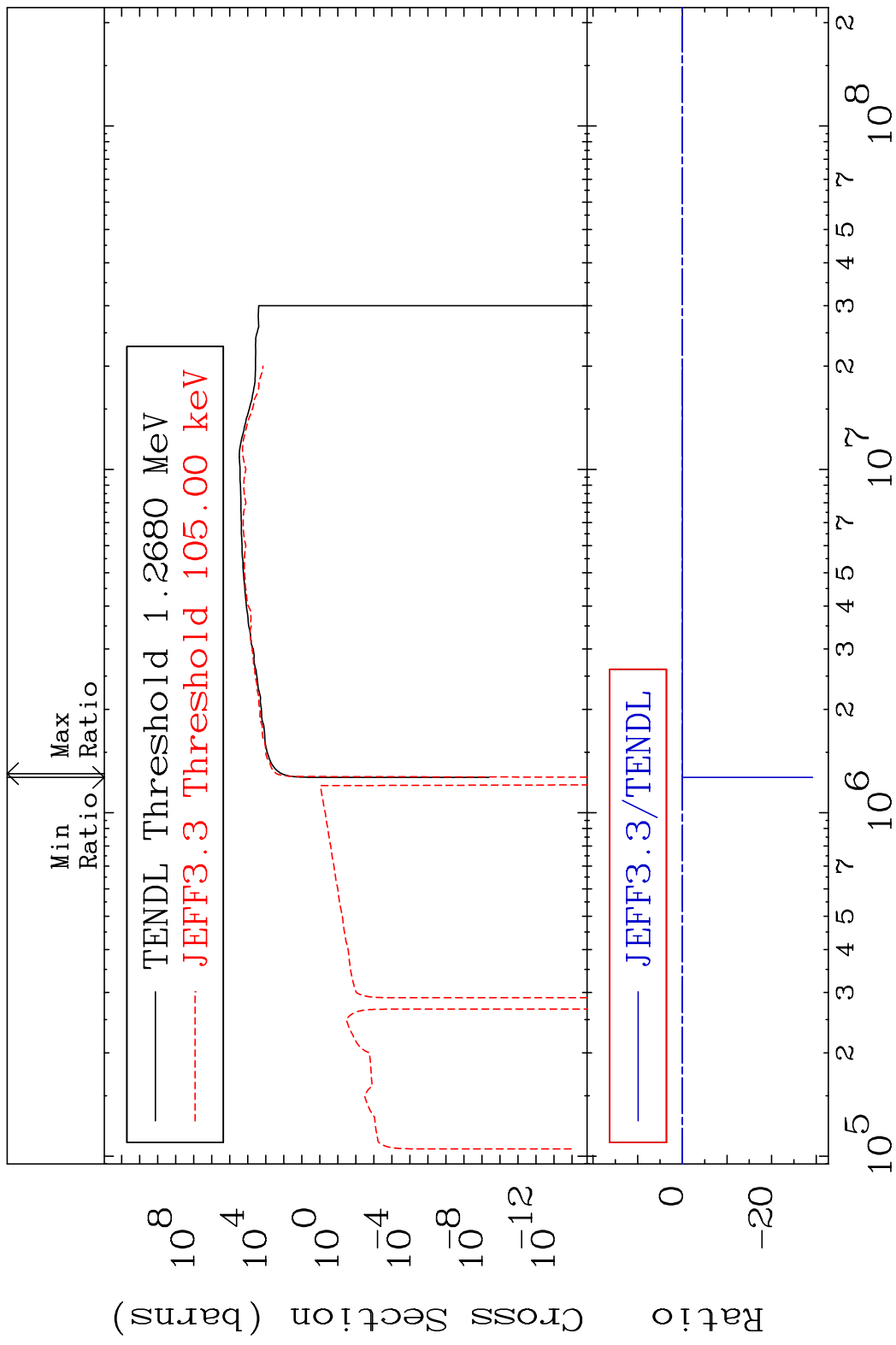
Incident Energy (eV)

50-Sn-112

MAT 5025 Kerma non-elastic (all but mt2) 50-Sn-112  
 Cross Section -564.5 To 9999. %



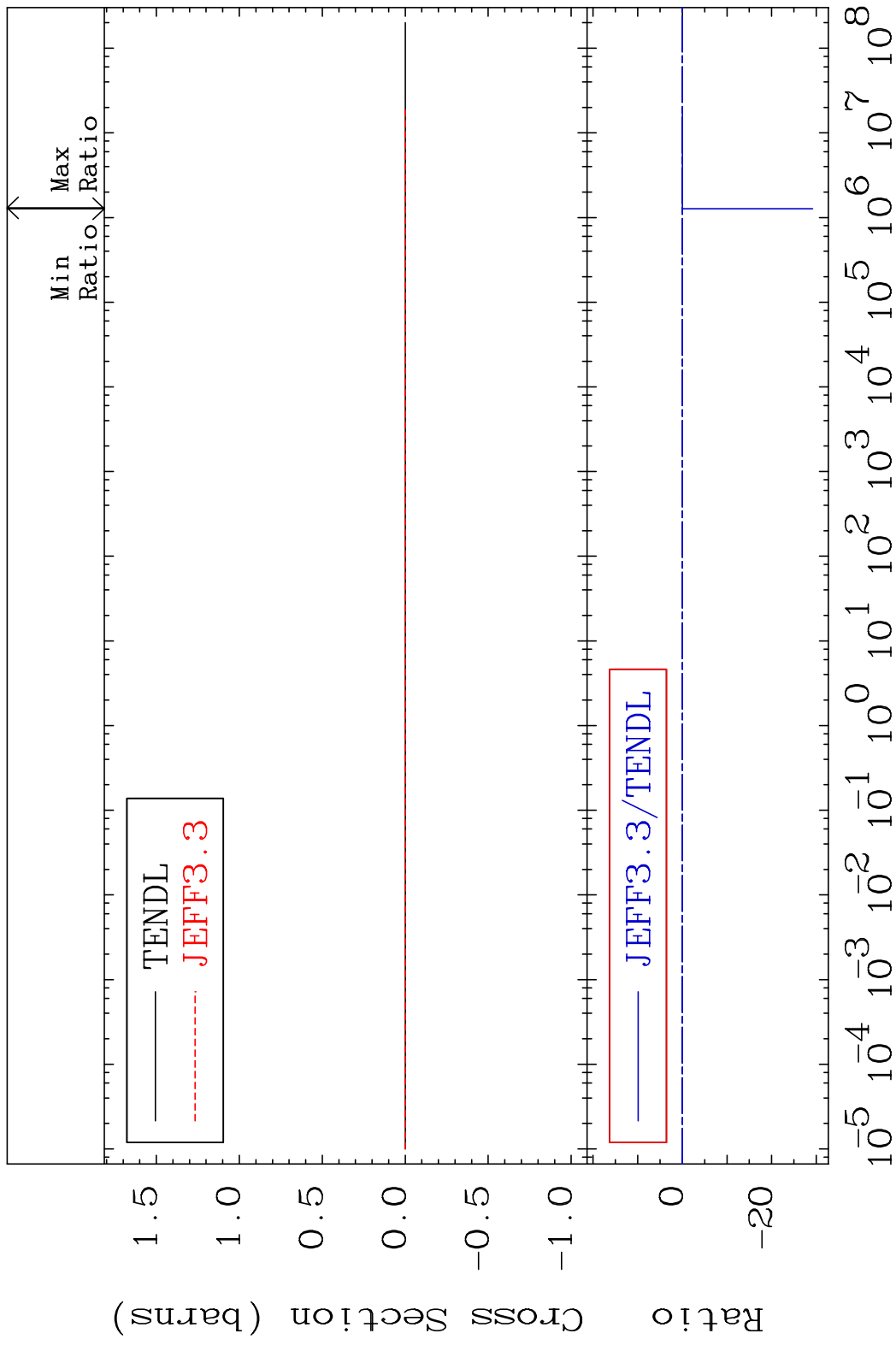
MAT 5025 Kerma inelastic (mt51-91) 50-Sn-112  
 Cross Section -9999. To 98.25 %



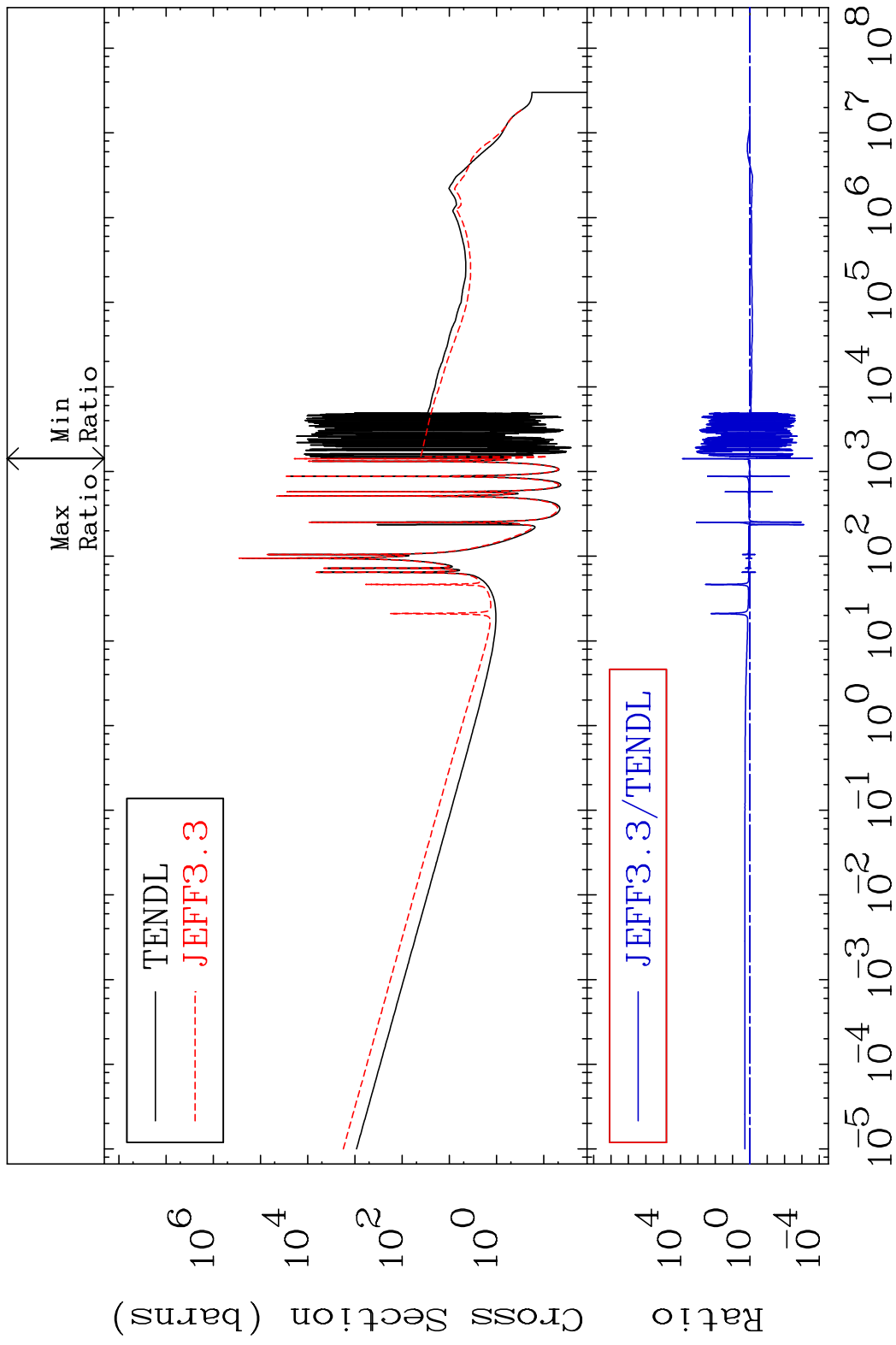
47 Incident Energy (eV) 50-Sn-112



MAT 5025 Kerma fission (mt18 or mt19-20-21-38) 50-Sn-112  
 Cross Section -9999. To 98.25 %

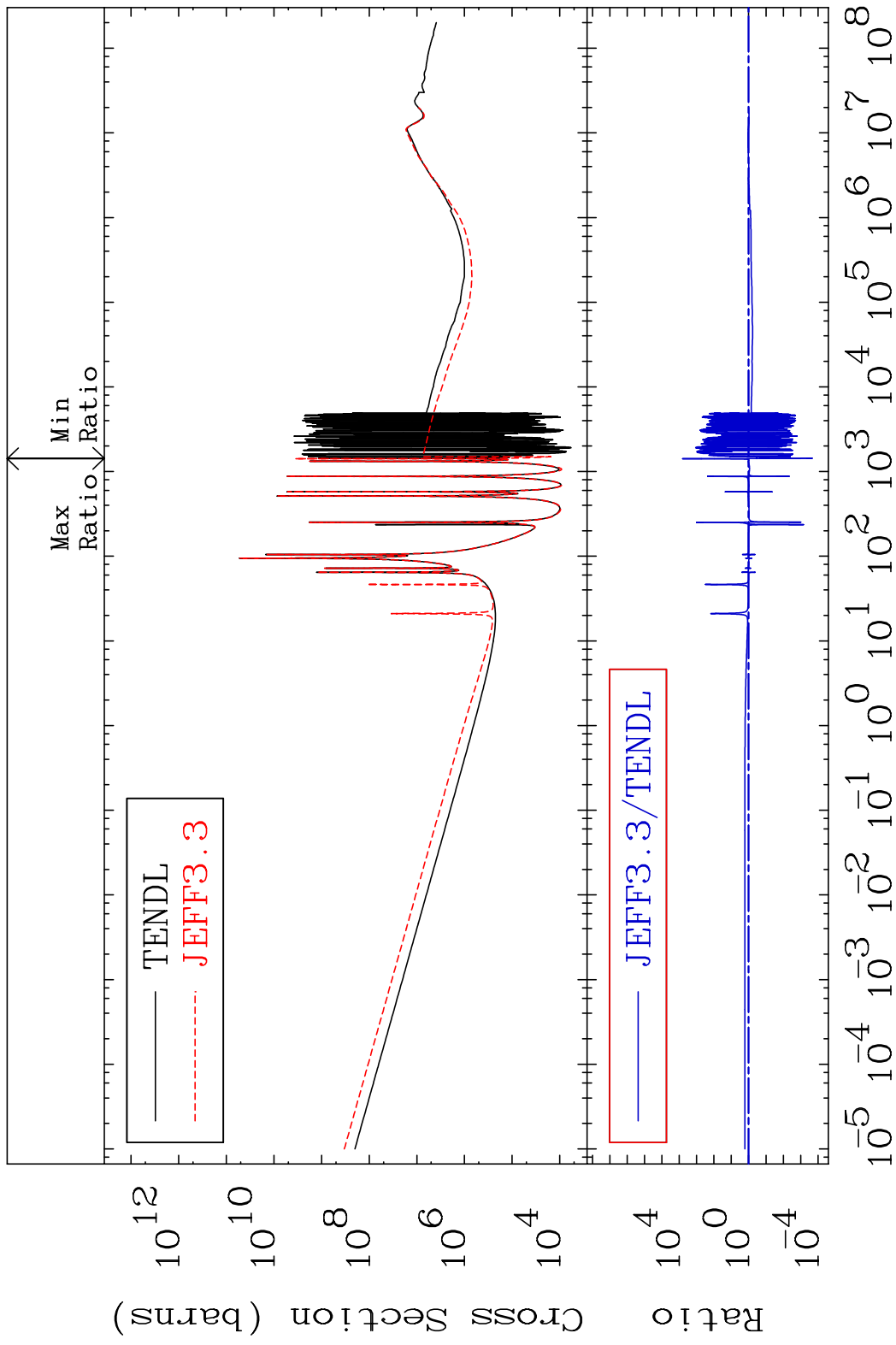


MAT 5025 Kerma capture (mt102) 50-Sn-112  
 Cross Section -99.98 To 9999. %



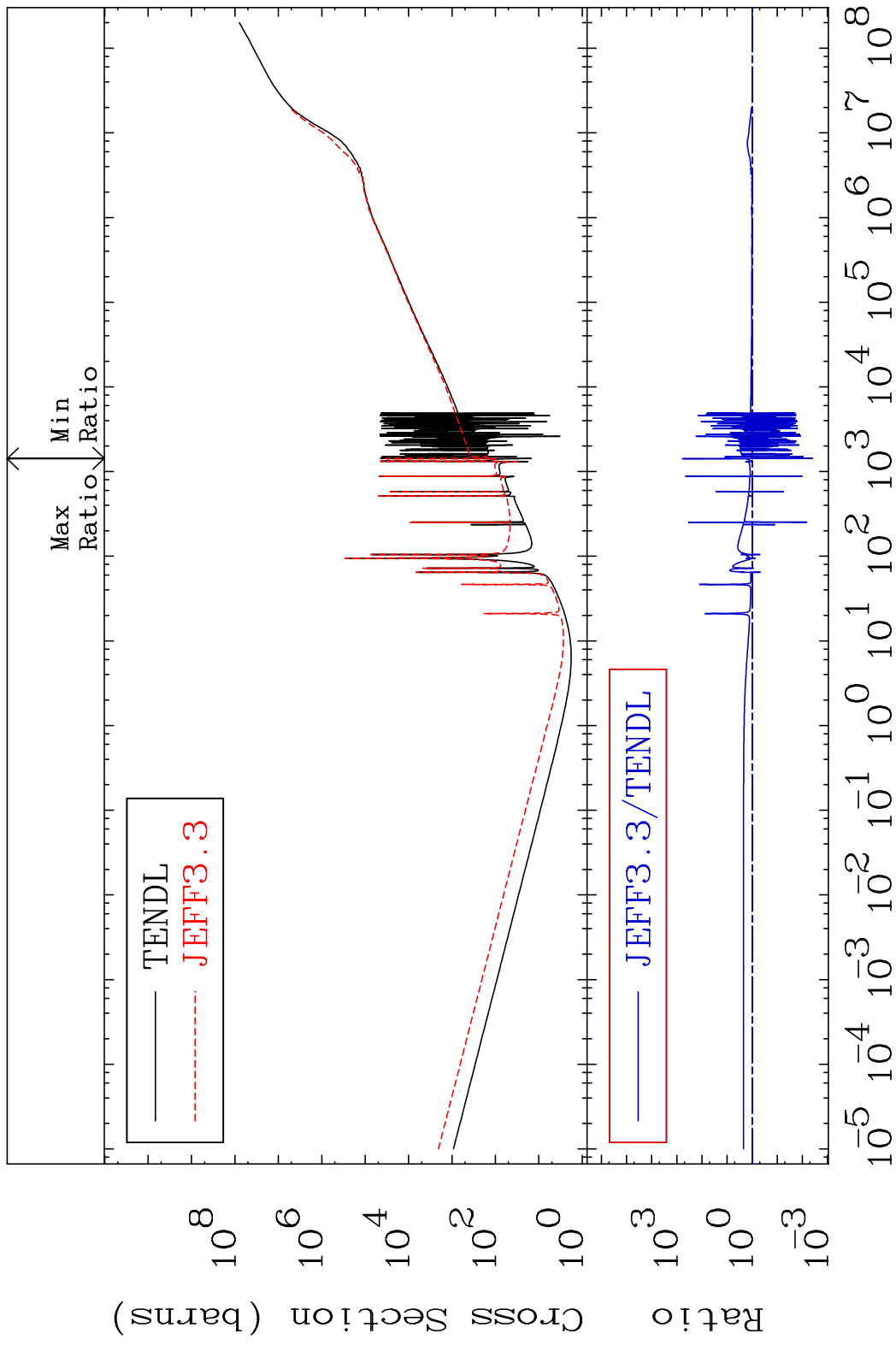
49 Incident Energy (eV) 50-Sn-112

MAT 5025 Total photon (eV-barns) 50-Sn-112  
 Cross Section -99.98 To 9999. %

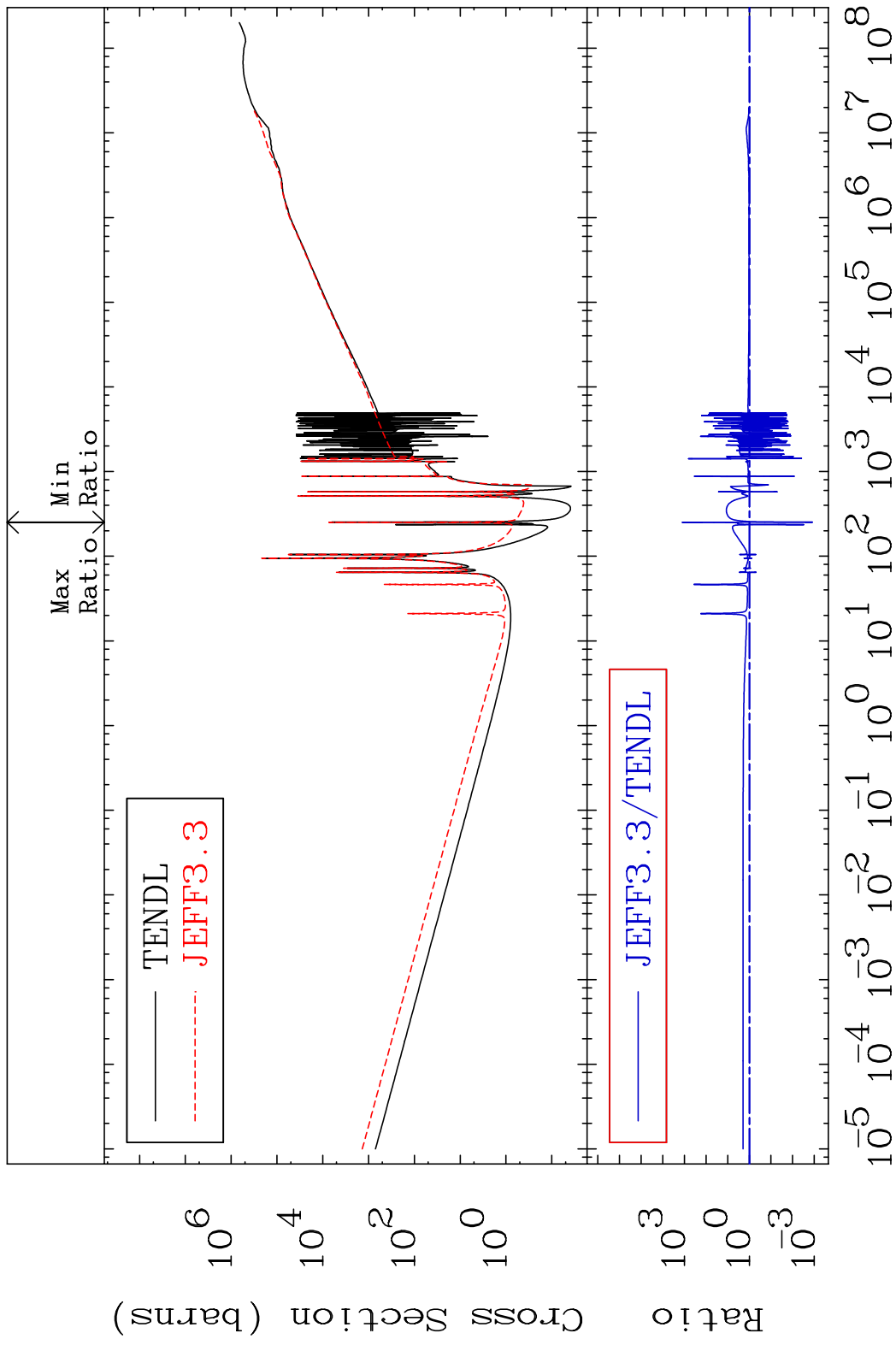


50 Incident Energy (eV) 50-Sn-112

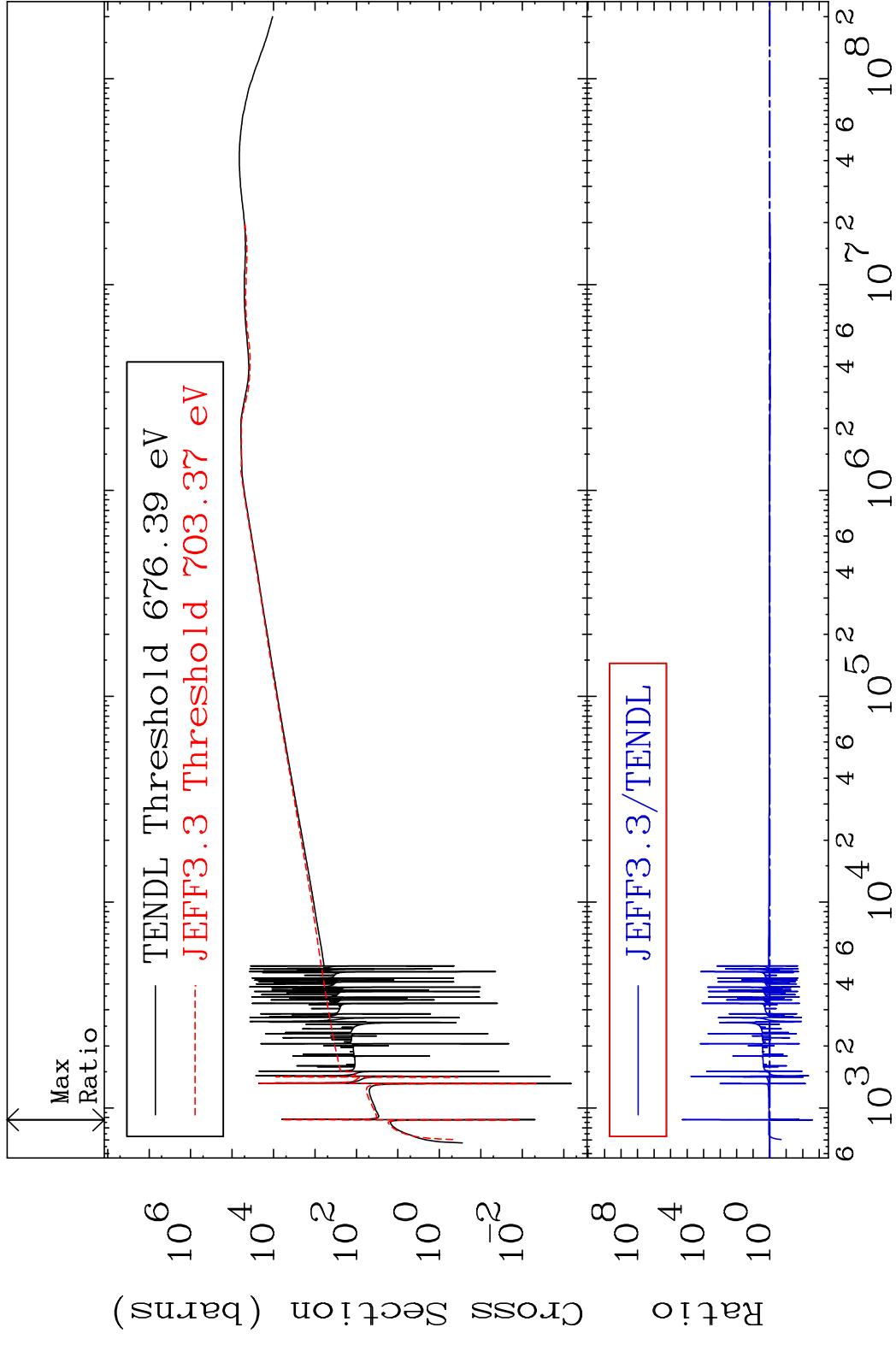
MAT 5025 Total kinematic kerma (high limit) 50-Sn-112  
 Cross Section -99.61 To 9999. %



MAT 5025      Dpa total (eV-barns)      50-Sn-112  
 Cross Section      -99.88 To 9999.      %



MAT 5025      Dpa elastic (mt2)      50-Sn-112  
 Cross Section      -99.75 To 9999. %

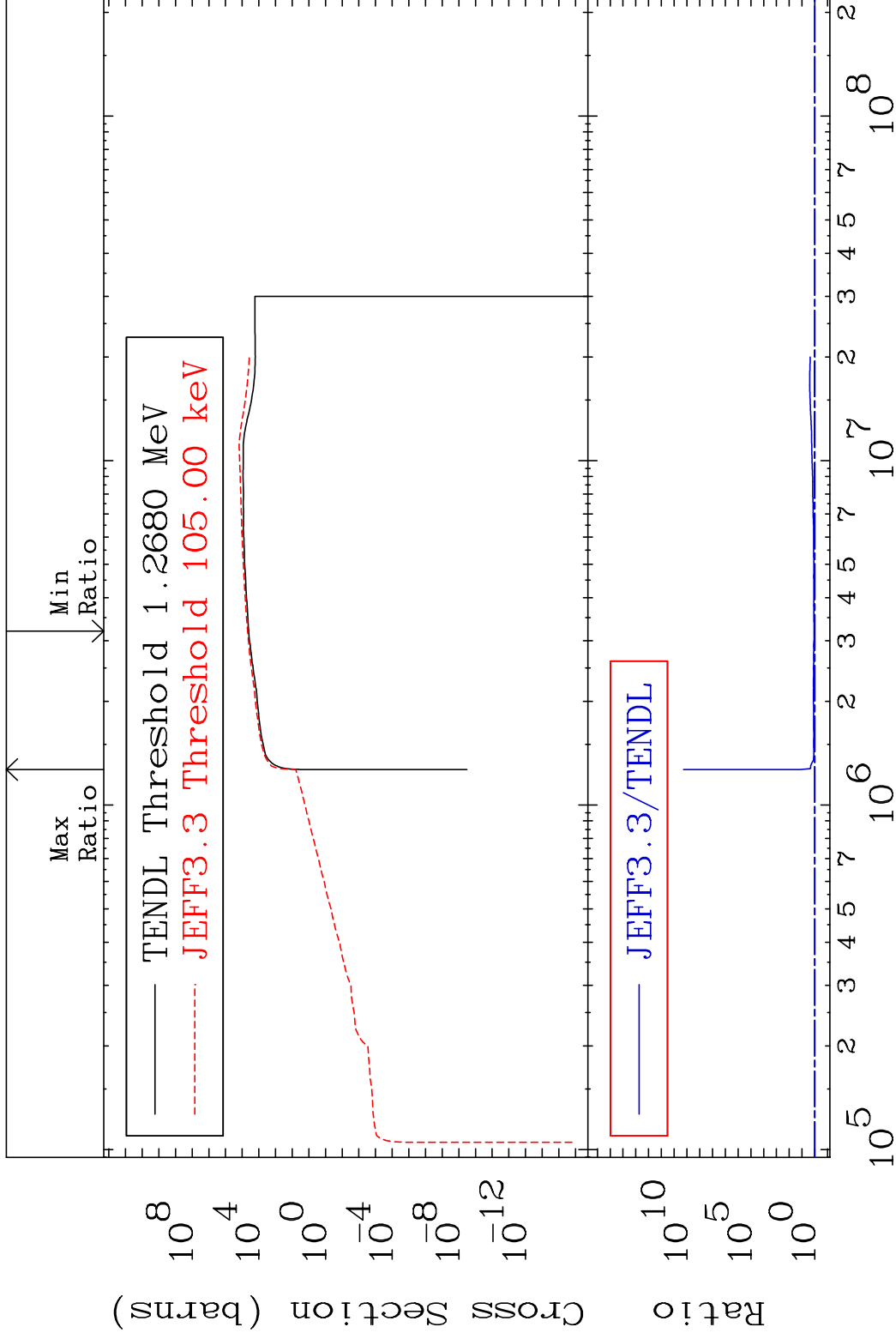


MAT 5025

Dpa inelastic (mt51-91)

50-Sn-112

Cross Section 15.43 To 9999. %



54

Incident Energy (eV)

50-Sn-112

MAT 5025 Dpa disappearance (mt102 -120) 50-Sn-112  
 Cross Section -99.97 To 9999. %

