

Program Complot  
(Version 2021-1)

by

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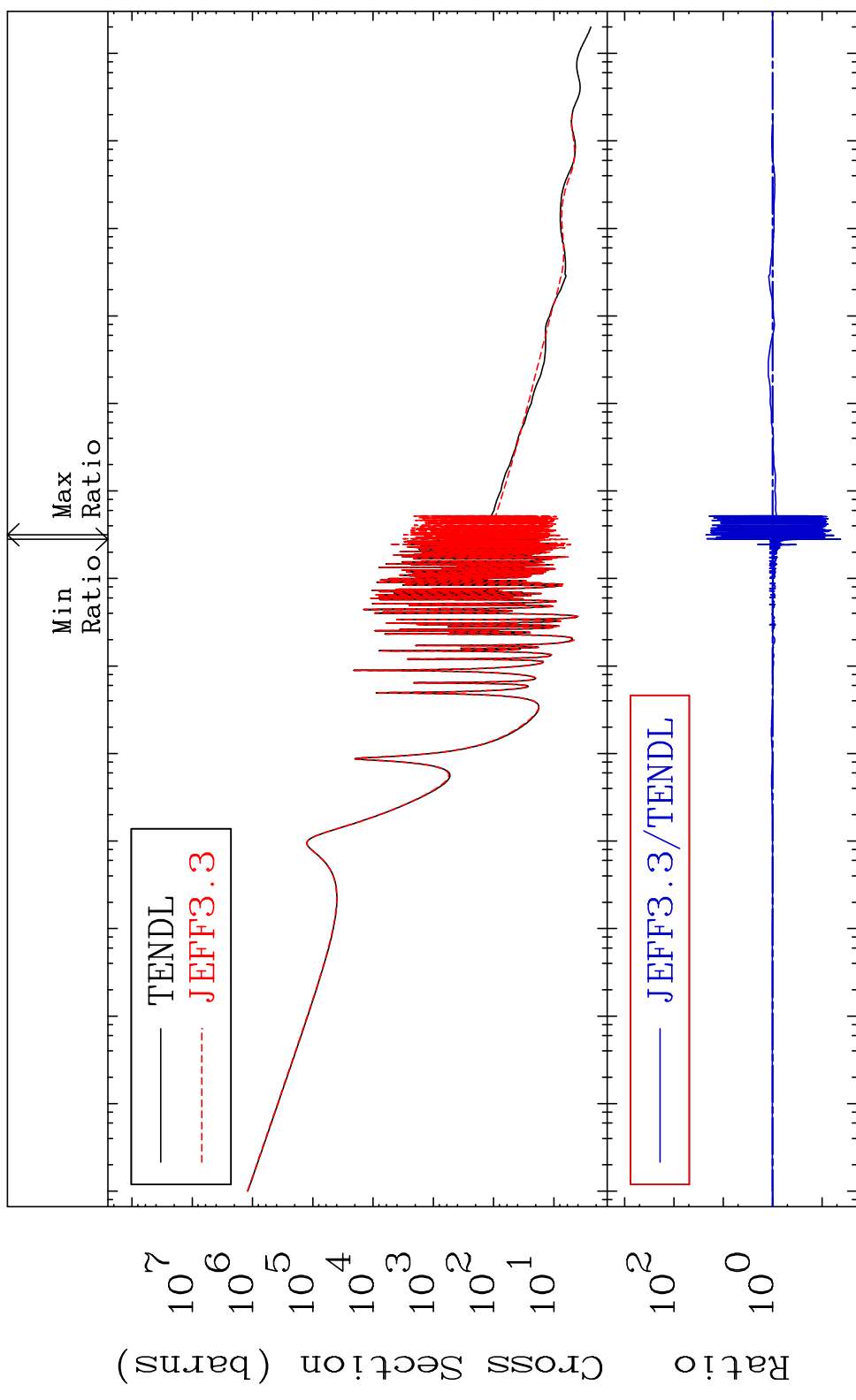
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6240

Total Cross Section -95.77 To 2165. %  
62-Sm-149



1 Incident Energy (eV) 62-Sm-149

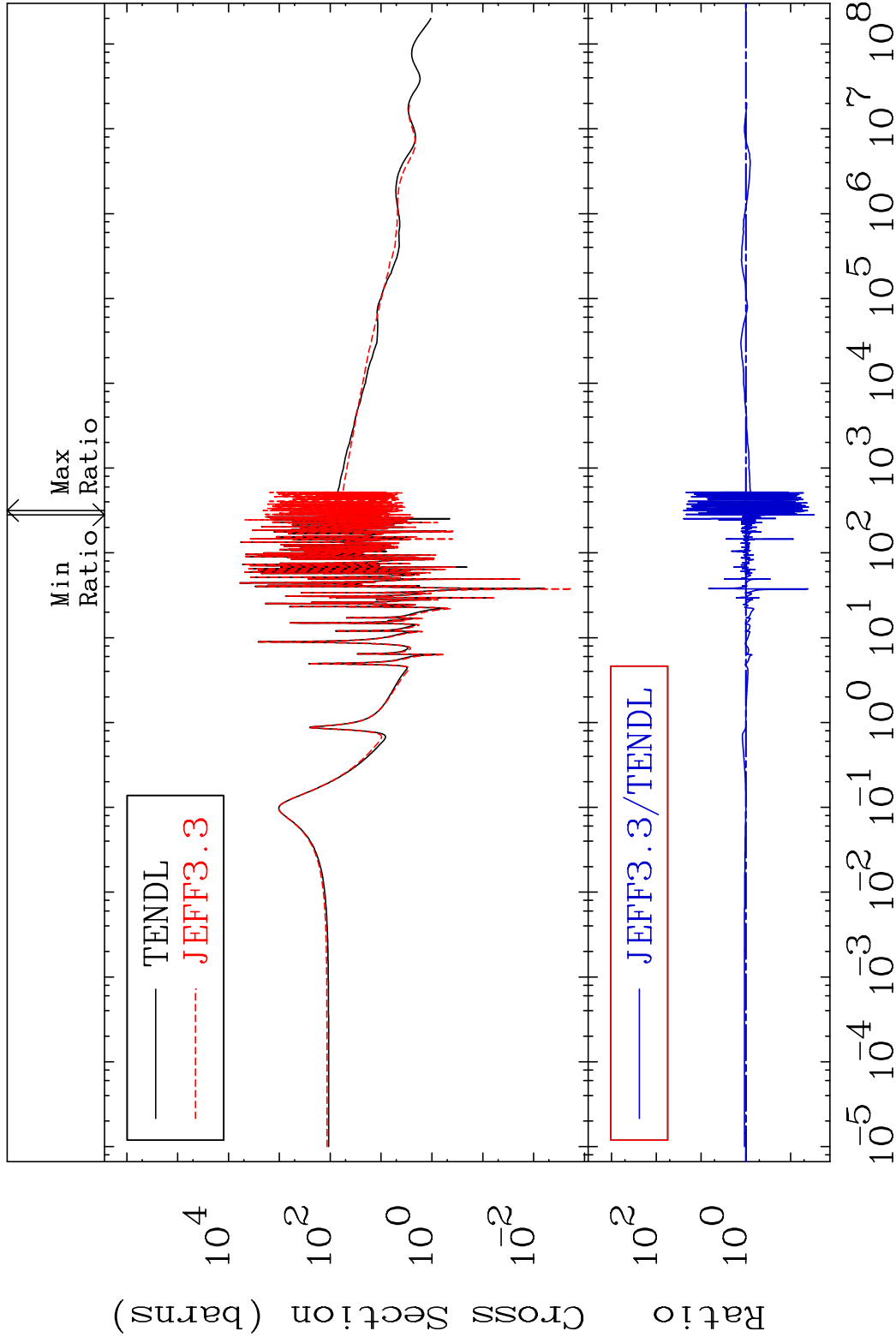
MAT 6240

Elastic

62-Sm-149

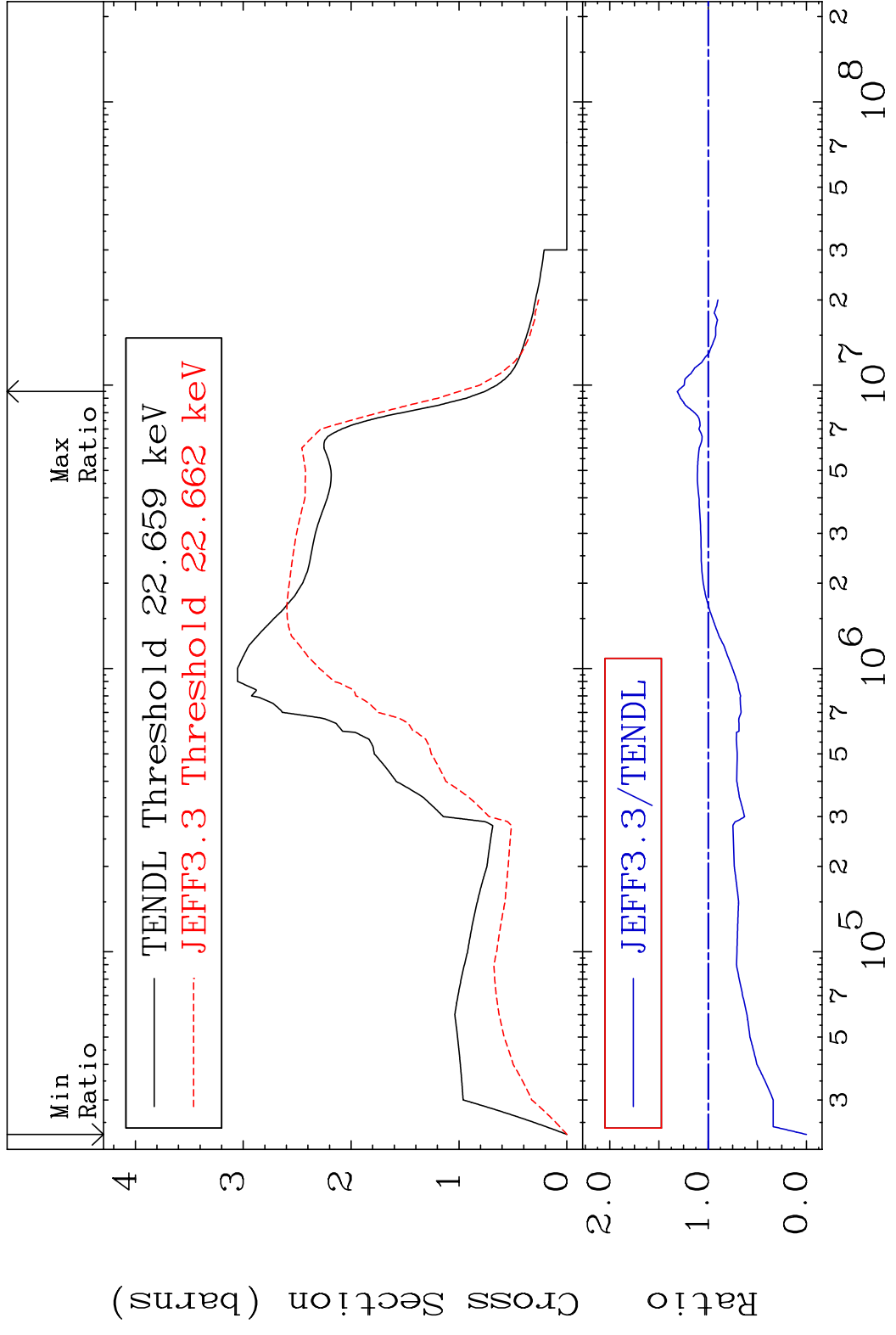
Cross Section

-97.01 To 2351. %



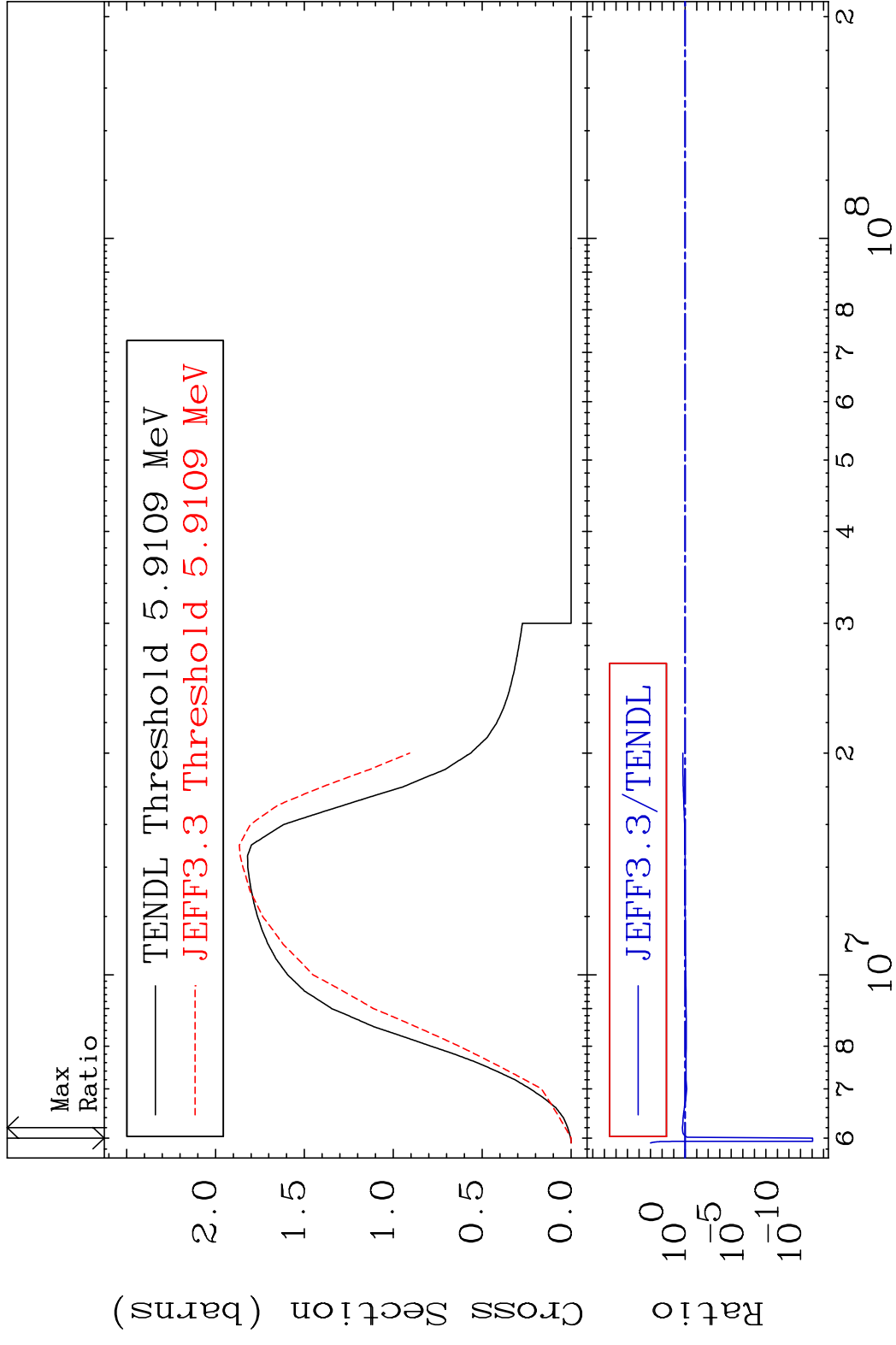
2

MAT 6240 Inelastic Cross Section -100.0 To 31.49 % 62-Sm-149



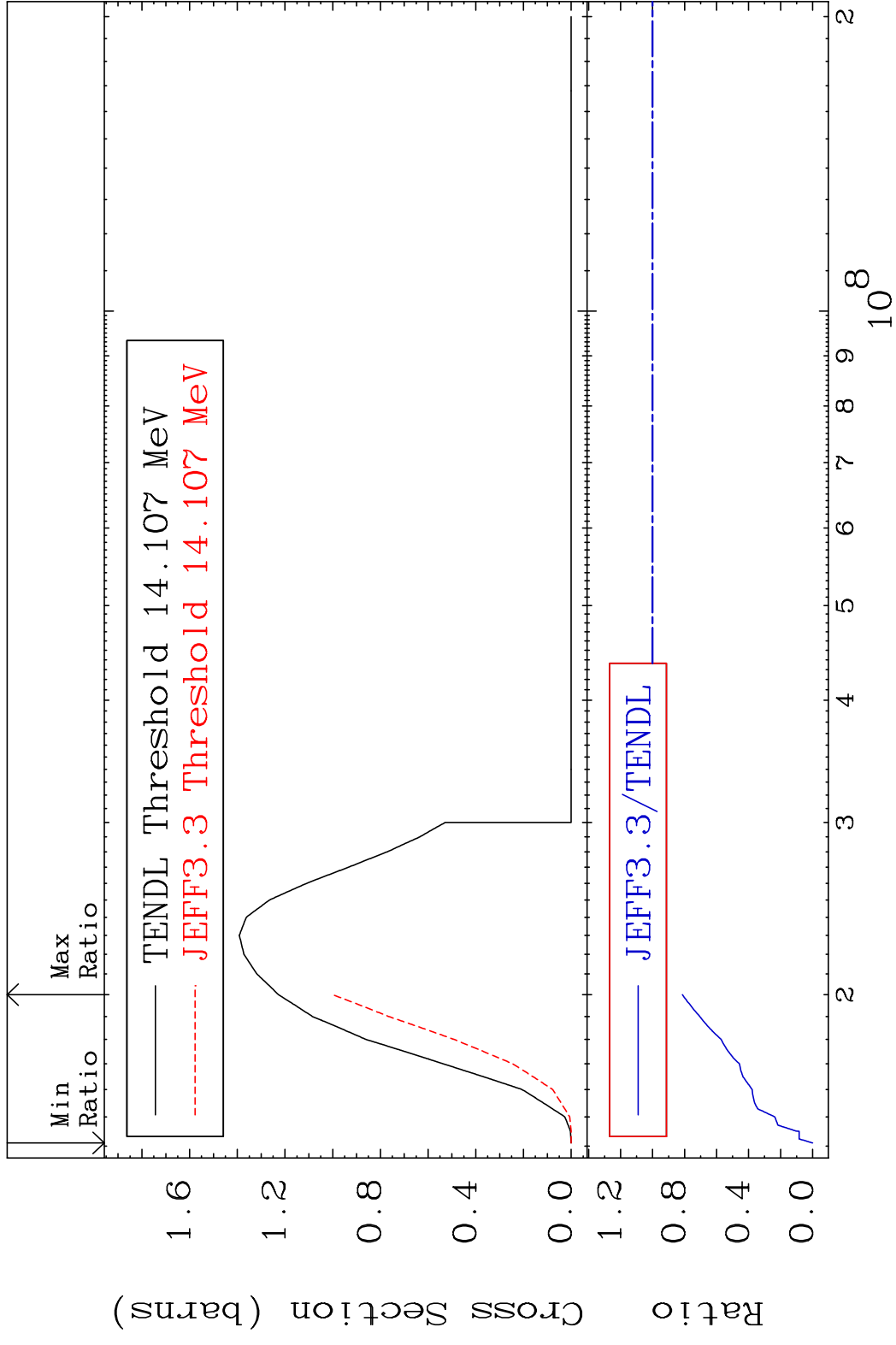
3 3 Incident Energy (eV) 62-Sm-149

MAT 6240 (n,2n) 62-Sm-149  
 Cross Section -100.0 To 74.72 %



4 Incident Energy (eV) 62-Sm-149

MAT 6240 (n,3n) 62-Sm-149  
 Cross Section -100.0 To -18.59%

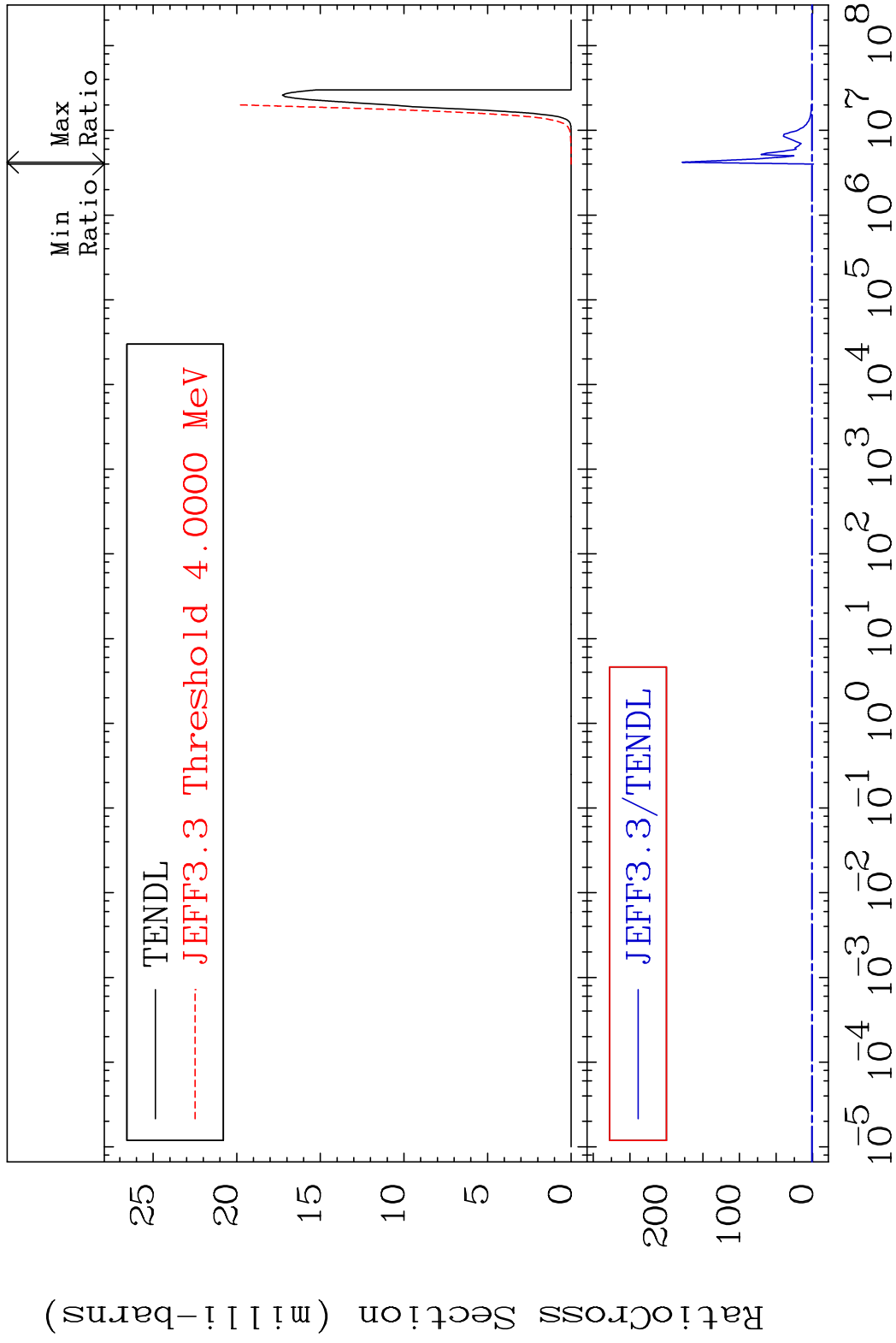


MAT 6240

(n, n')  $\alpha$

62-Sm-149

Cross Section -100.0 To 9999. %

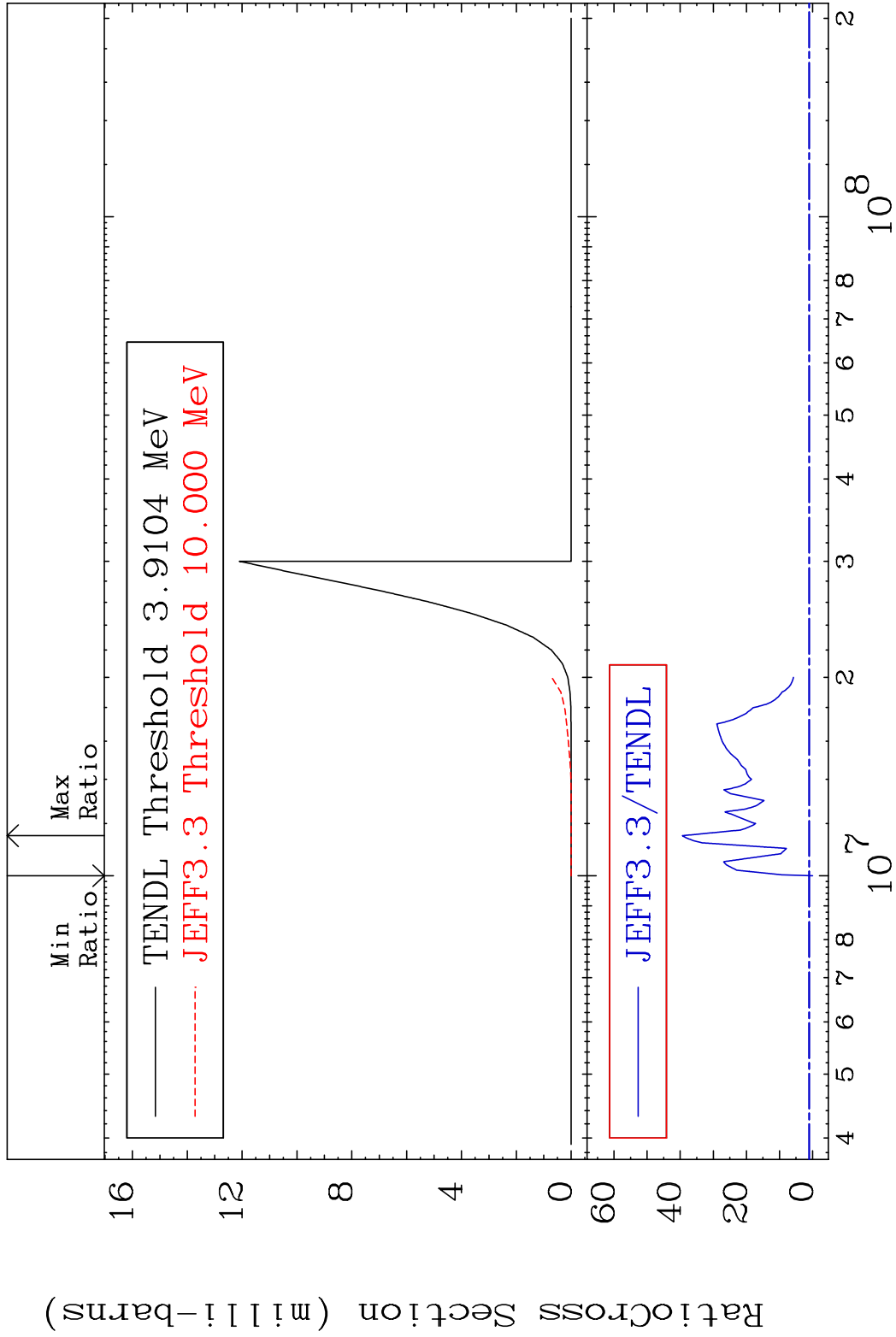


MAT 6240

(n,2n)  $\alpha$

62-Sm-149

Cross Section -100.0 To 3835. %



7

Incident Energy (eV)

62-Sm-149

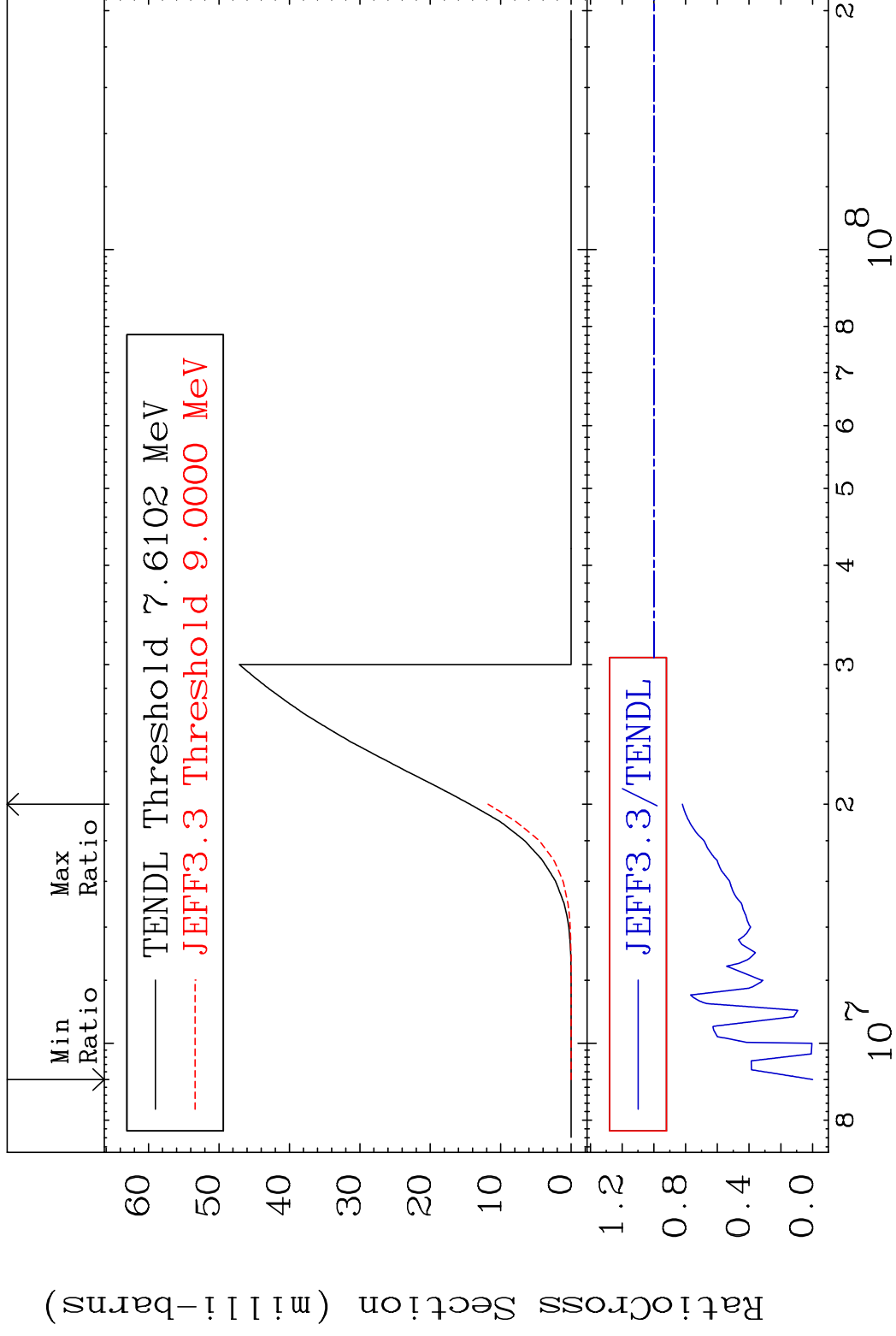


MAT 6240

(n, n') p

62-Sm-149

Cross Section -100.0 To -17.94%



8

Incident Energy (eV)

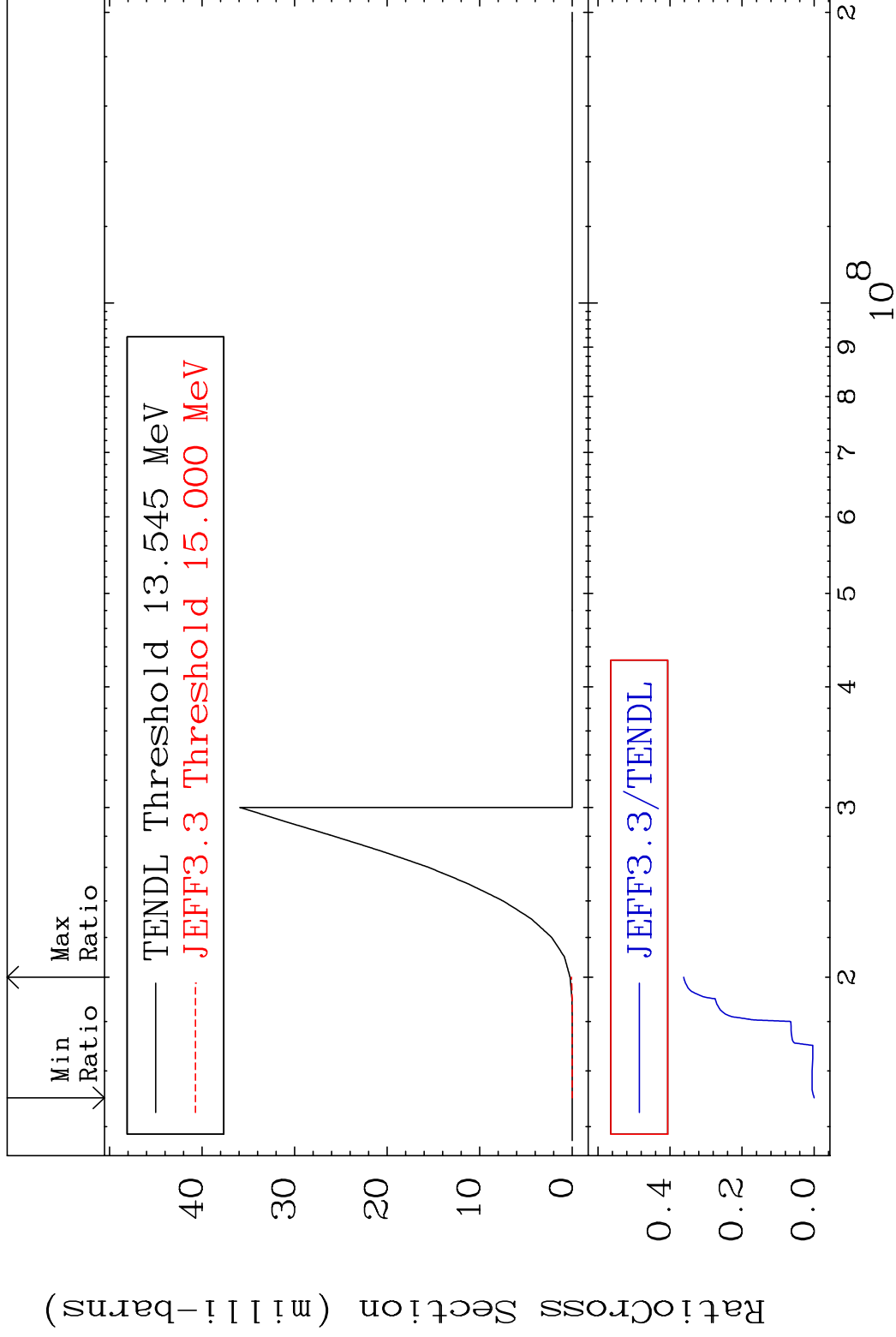
62-Sm-149

MAT 6240

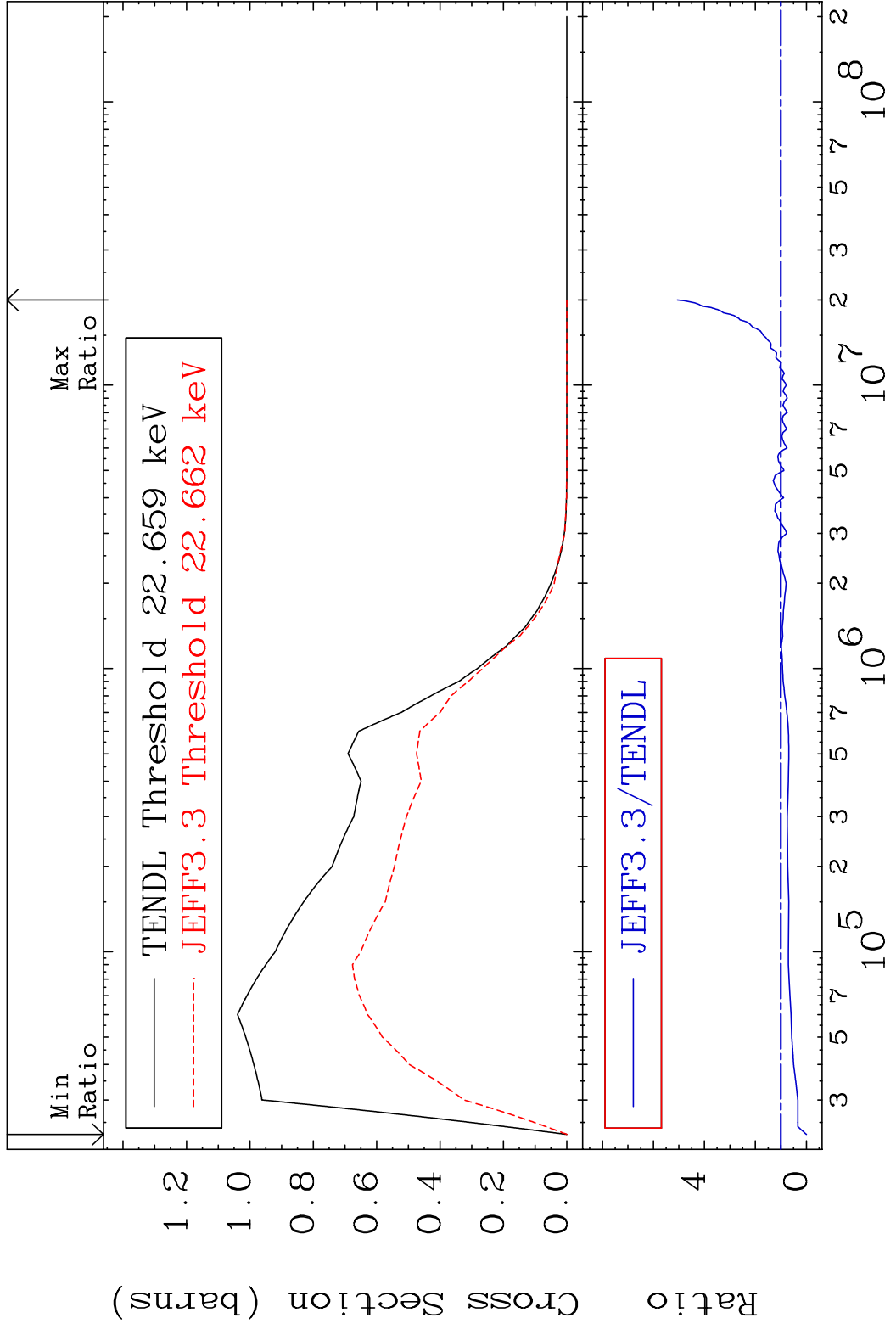
(n,2n) p

62-Sm-149

Cross Section -100.0 To -63.79%

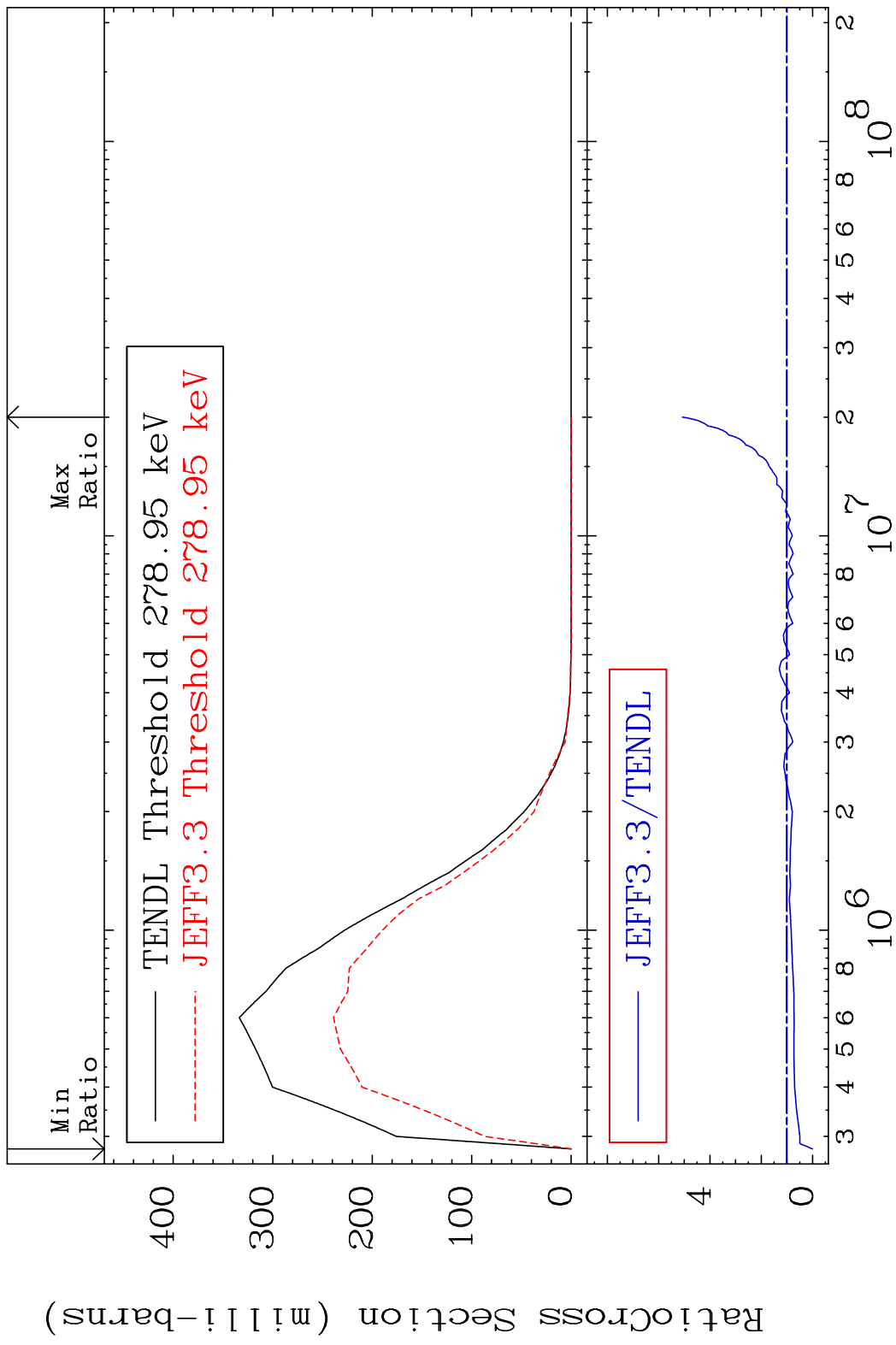


MAT 6240 MT= 51 (n, n') Level 62-Sm-149  
 Cross Section -100.0 To 406.8 %

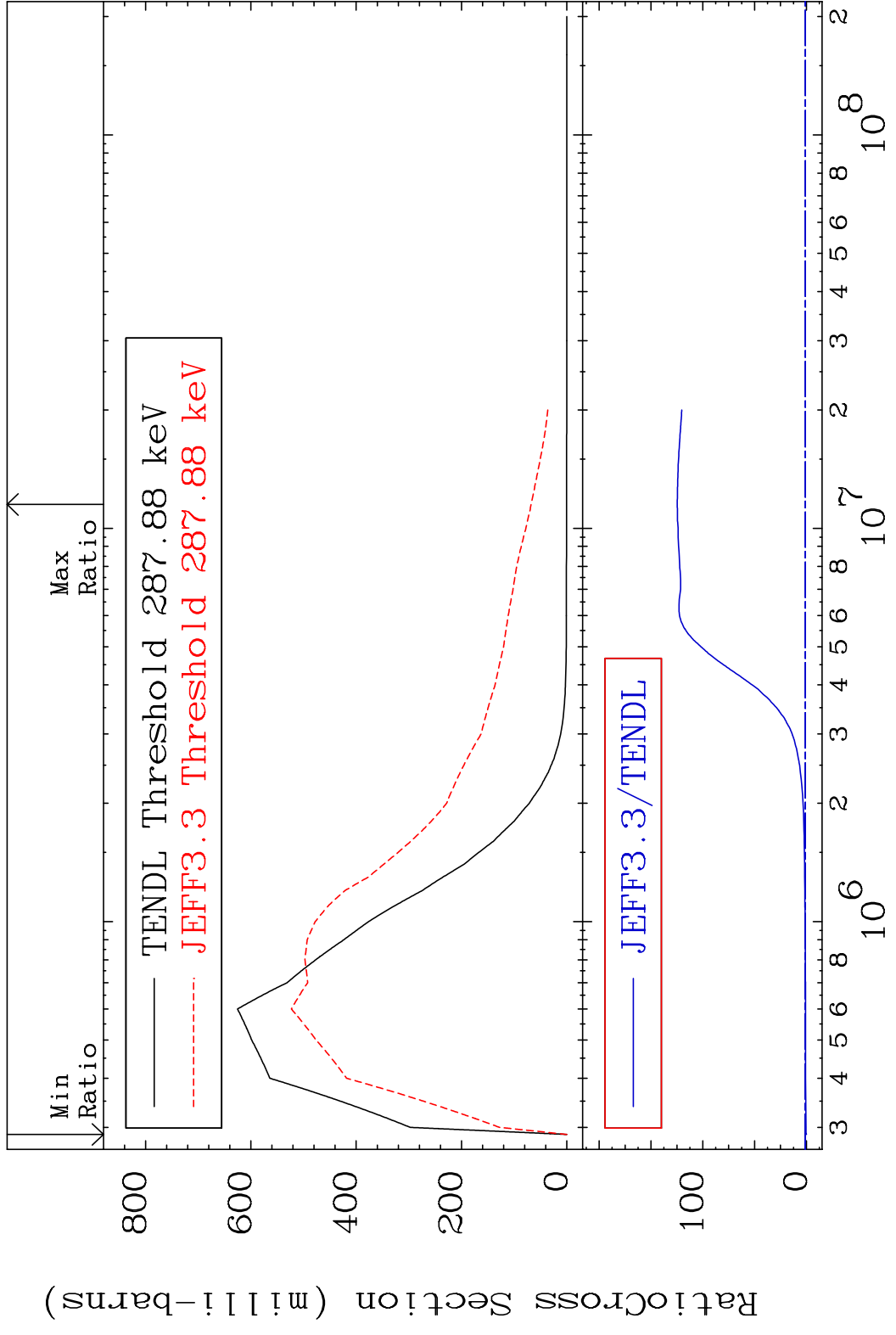


10 Incident Energy (eV) 62-Sm-149

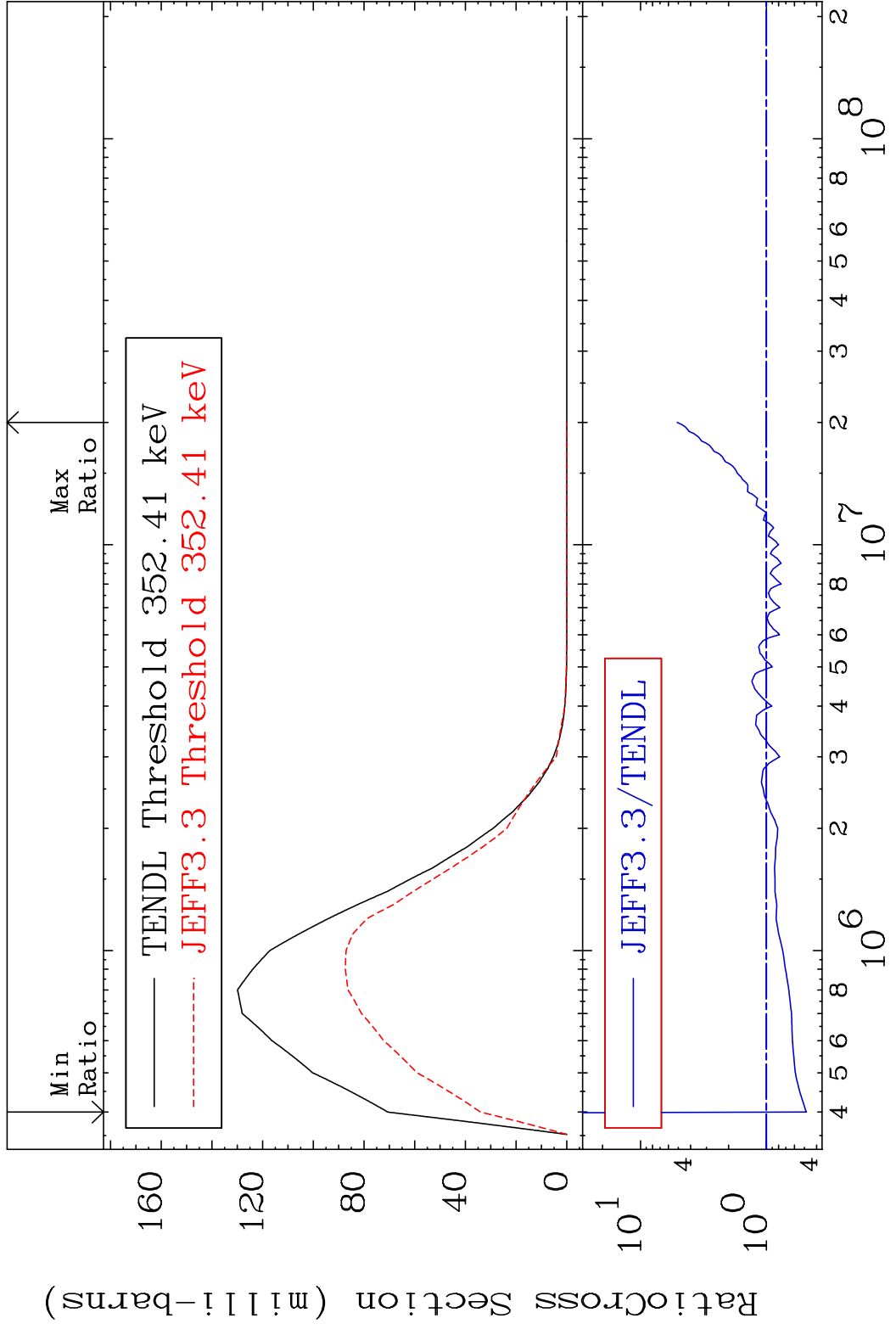
MAT 6240 MT= 52 (n, n') Level 62-Sm-149  
 Cross Section -100.0 To 407.3 %



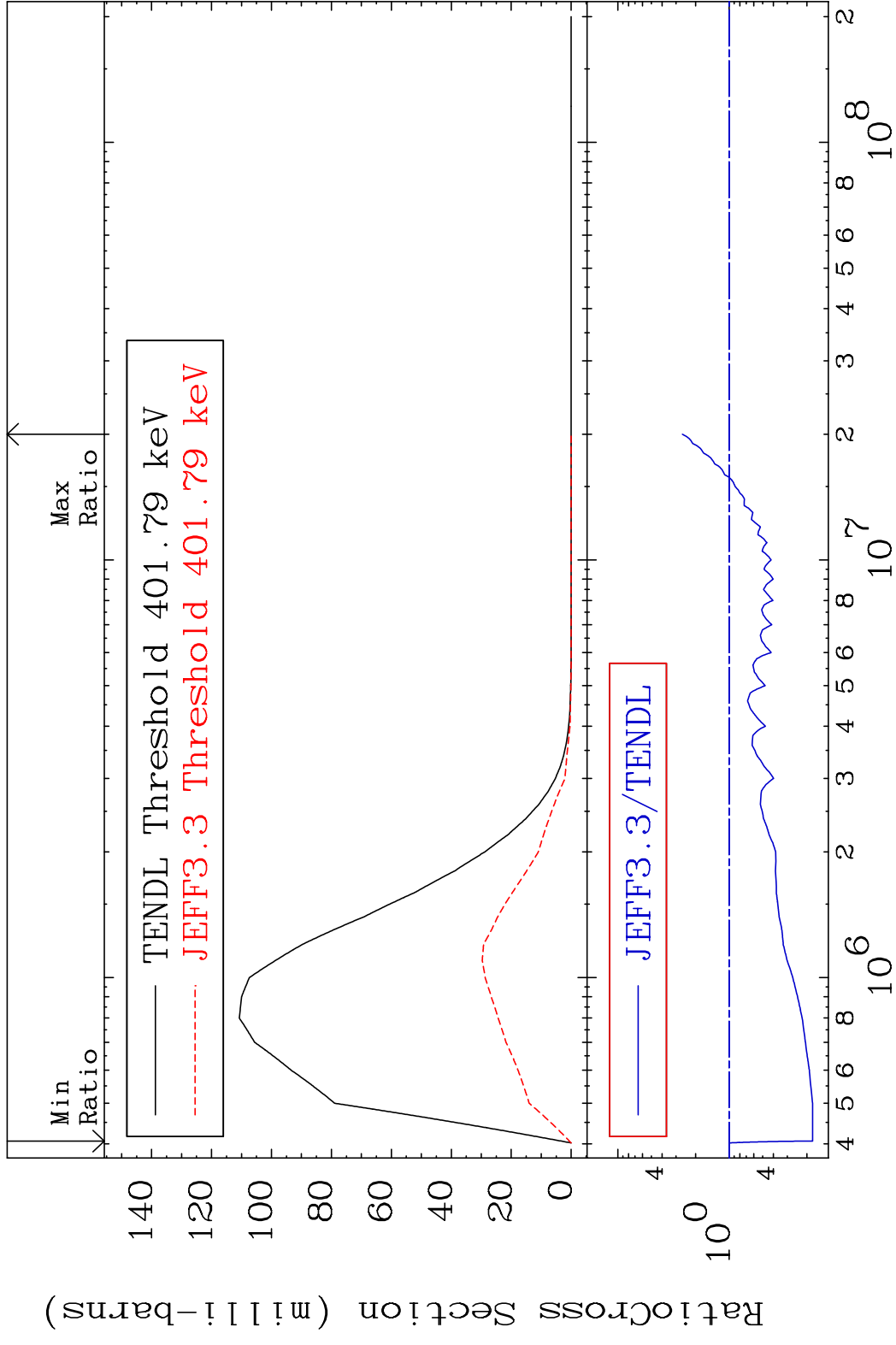
MAT 6240 MT= 53 (n, n') Level 62-Sm-149  
 Cross Section -100.0 To 9999. %



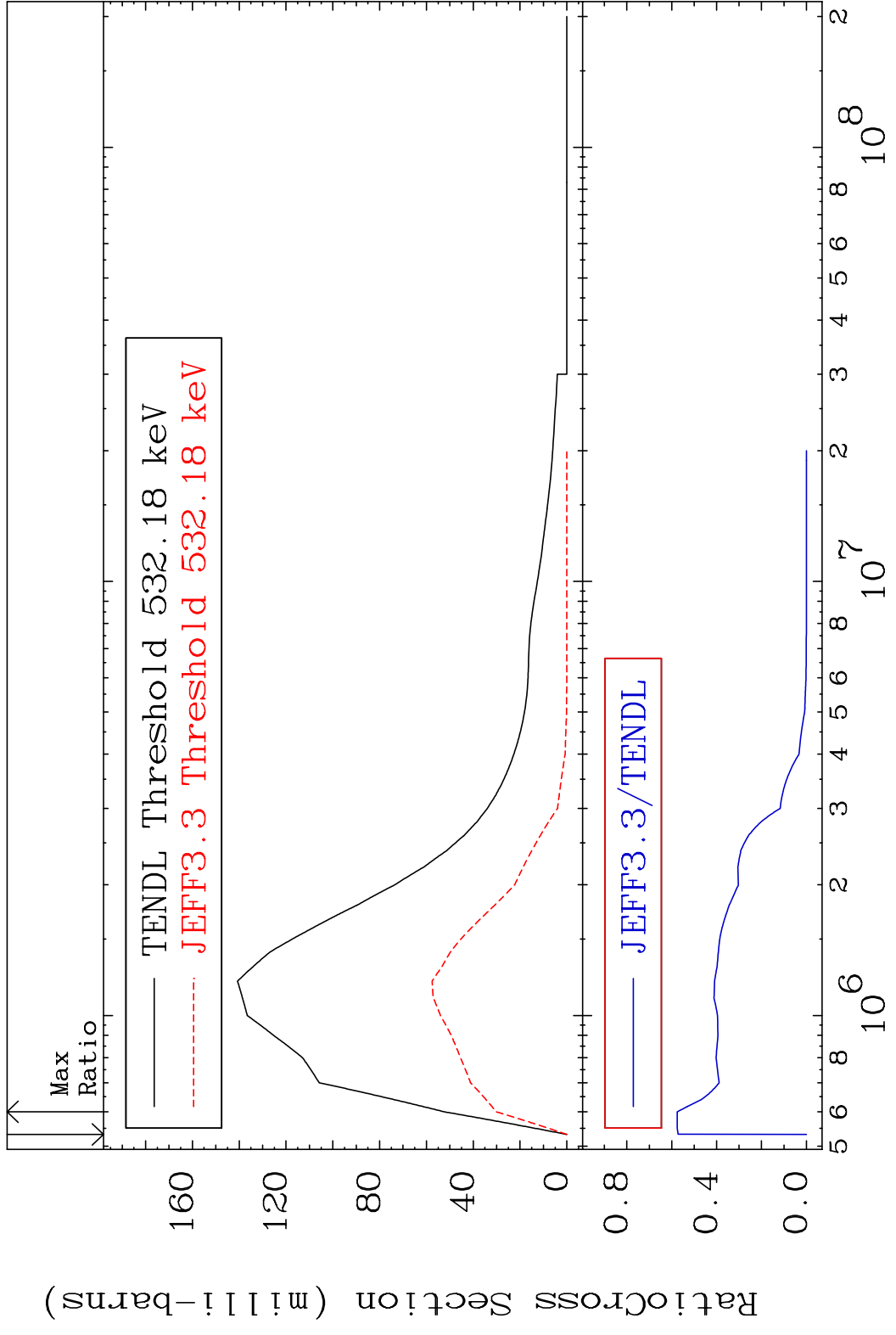
MAT 6240 MT= 54 (n, n') Level 62-Sm-149  
 Cross Section -51.85 To 411.0 %



MAT 6240 MT= 55 (n,n') Level 62-Sm-149  
 Cross Section -82.24 To 163.0 %

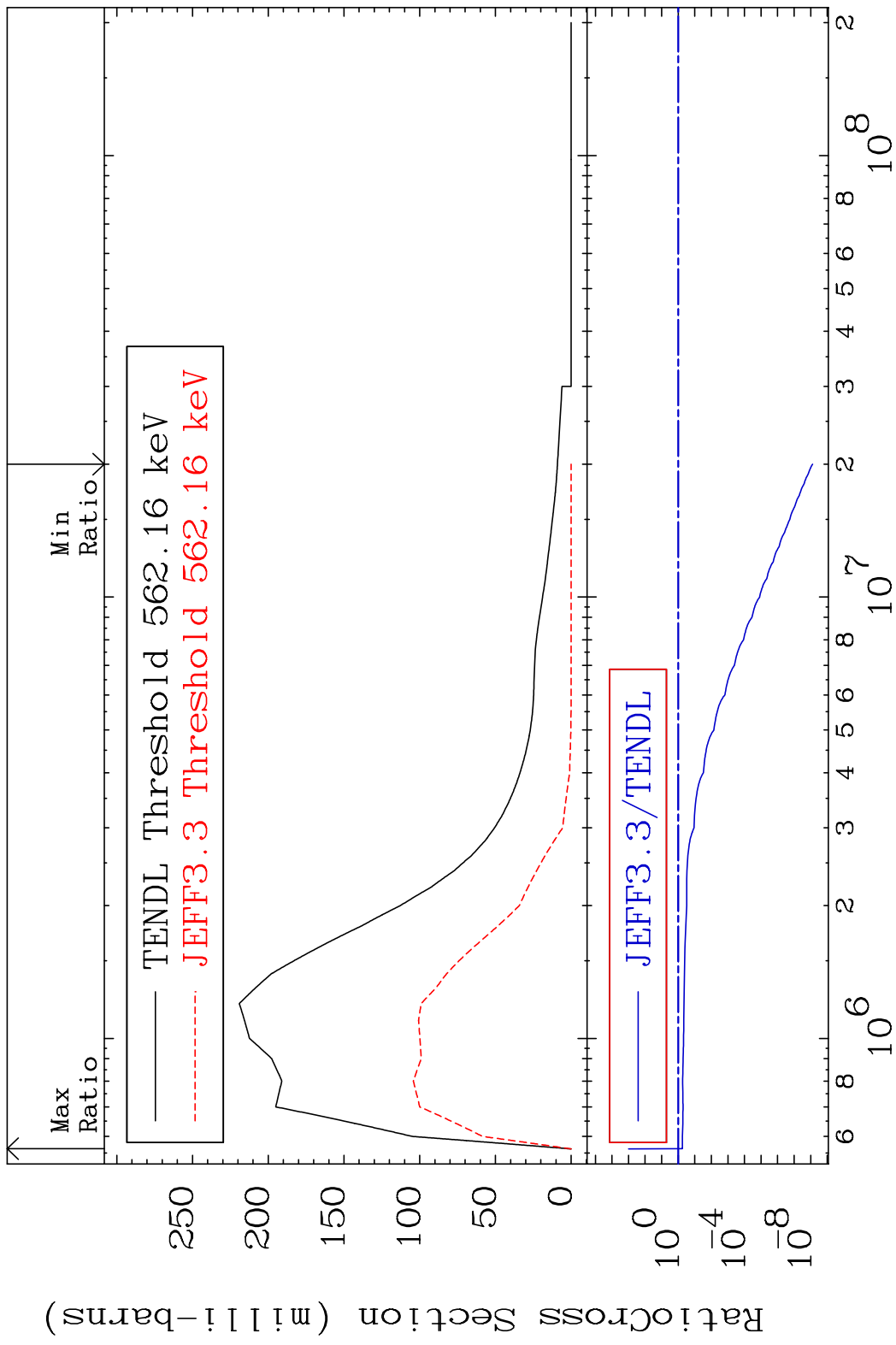


MAT 6240 MT= 56 (n,n') Level 62-Sm-149  
 Cross Section -100.0 To -42.44%

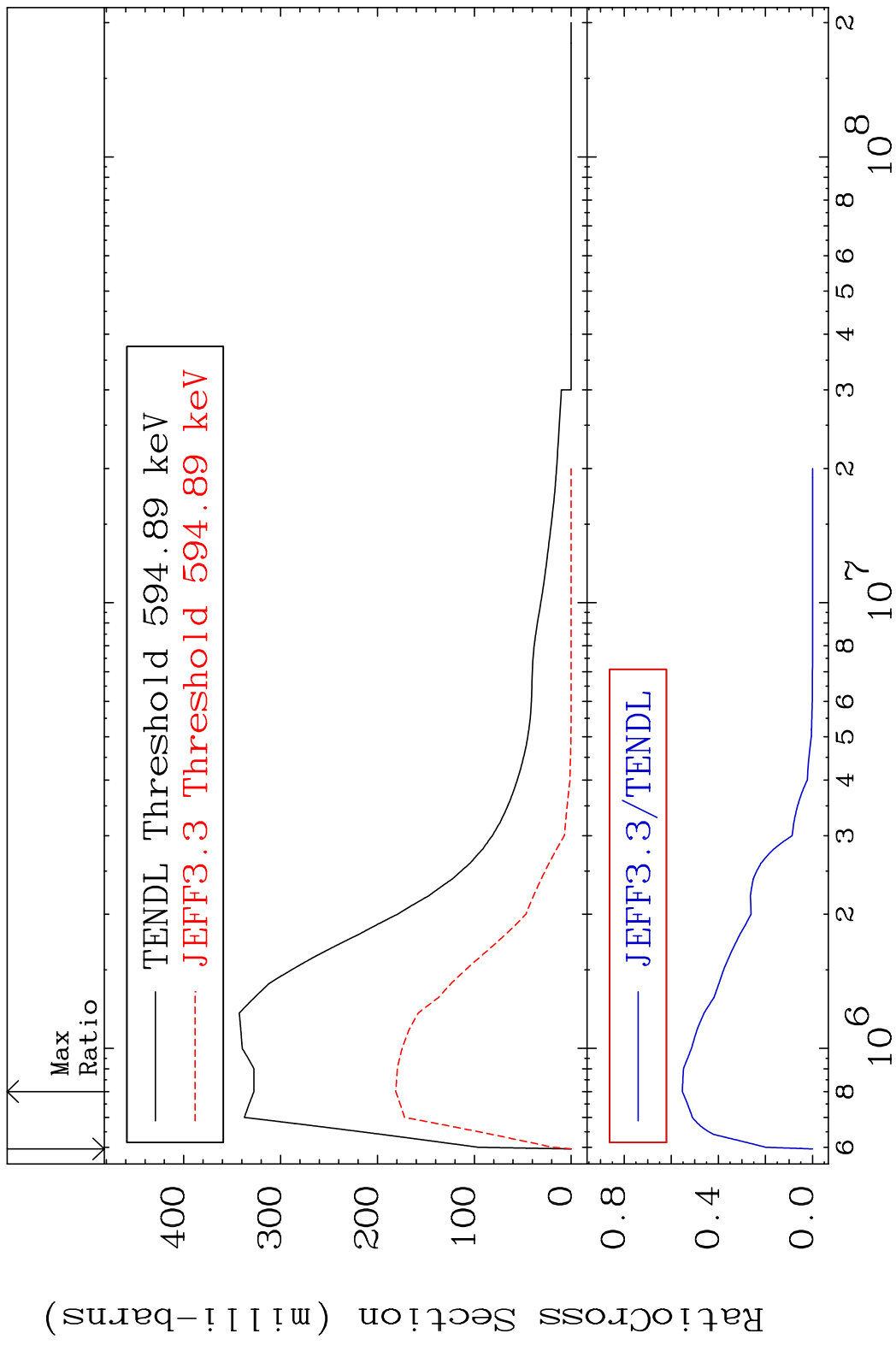




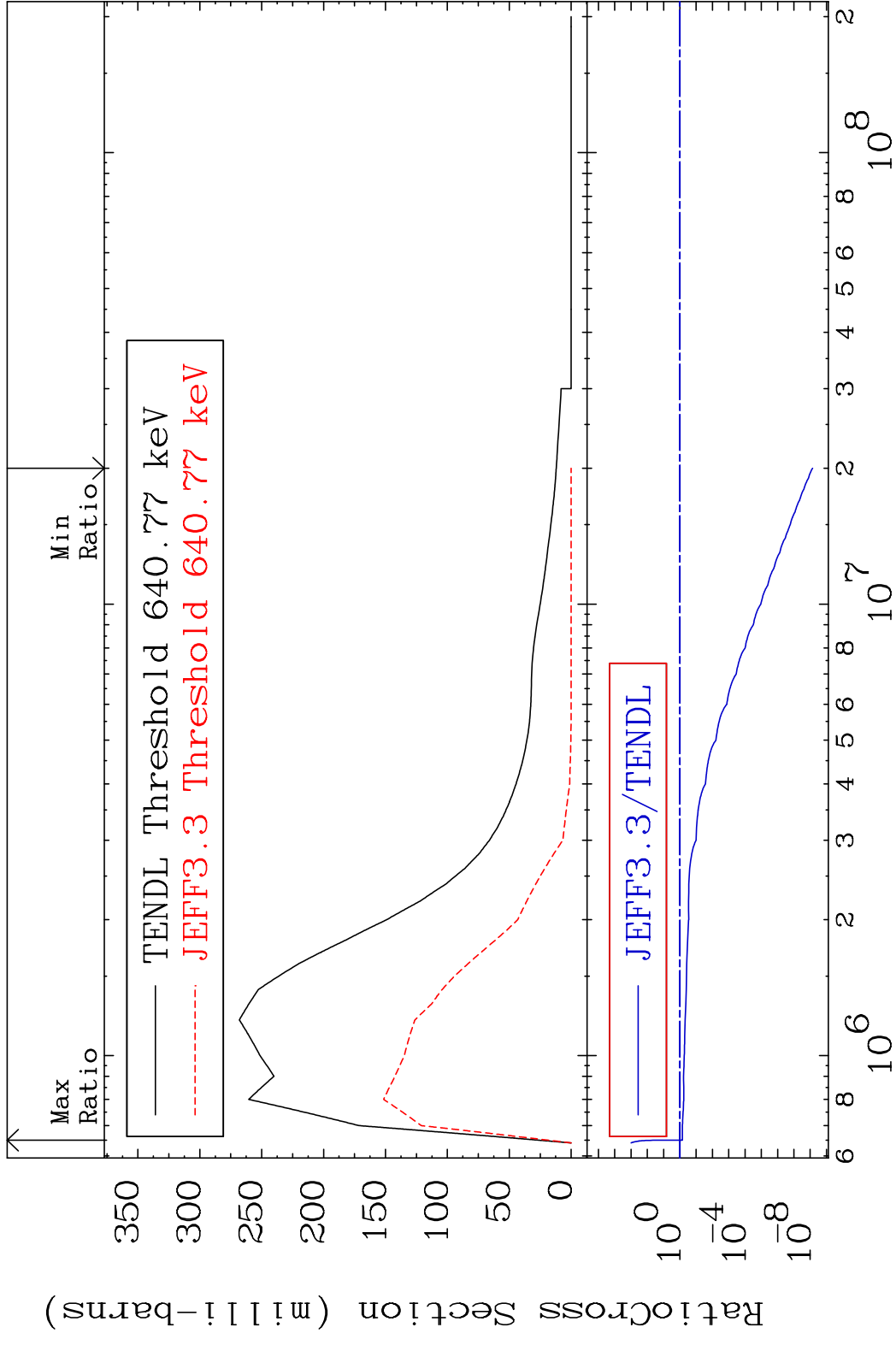
MAT 6240 MT= 57 (n, n') Level 62-Sm-149  
 Cross Section -100.0 To -43.82%



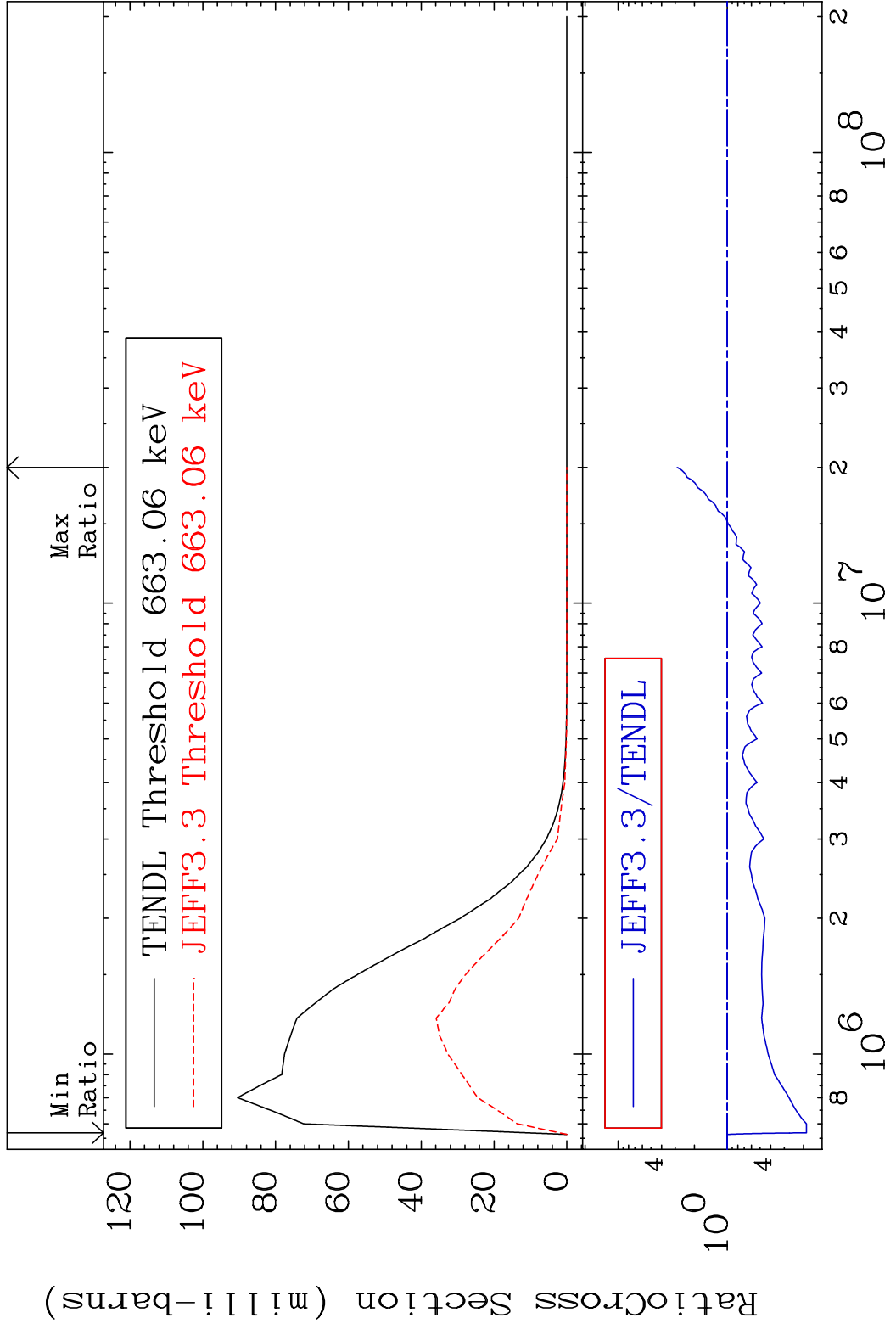
MAT 6240 MT= 58 (n, n') Level 62-Sm-149  
 Cross Section -100.0 To -44.71%



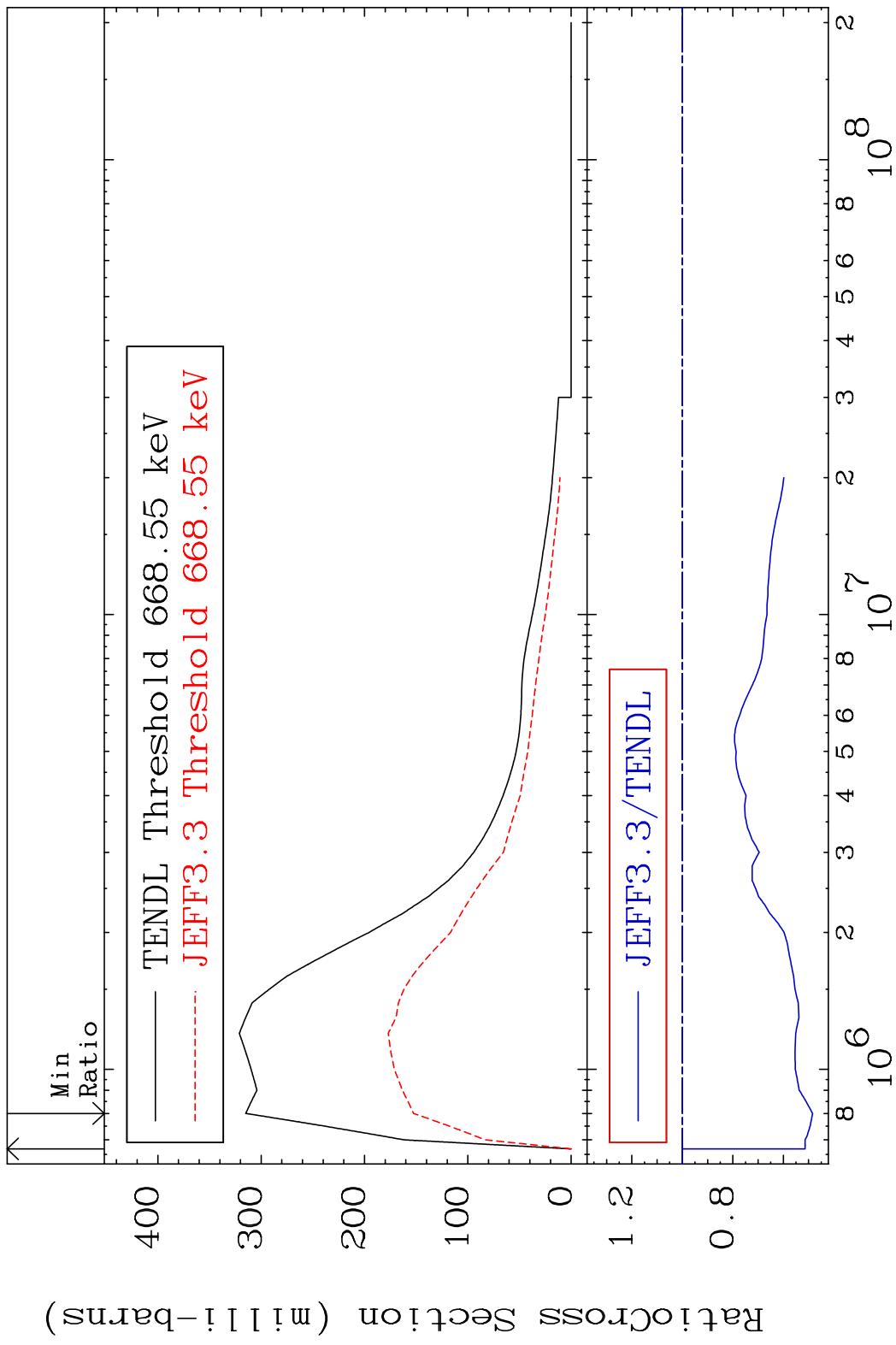
MAT 6240 MT= 59 (n, n') Level 62-Sm-149  
 Cross Section -100.0 To -29.35%



MAT 6240 MT= 60 (n, n') Level 62-Sm-149  
 Cross Section -81.17 To 187.3 %



MAT 6240 MT= 61 (n, n') Level 62-Sm-149  
 Cross Section -51.56 To 0.000 %

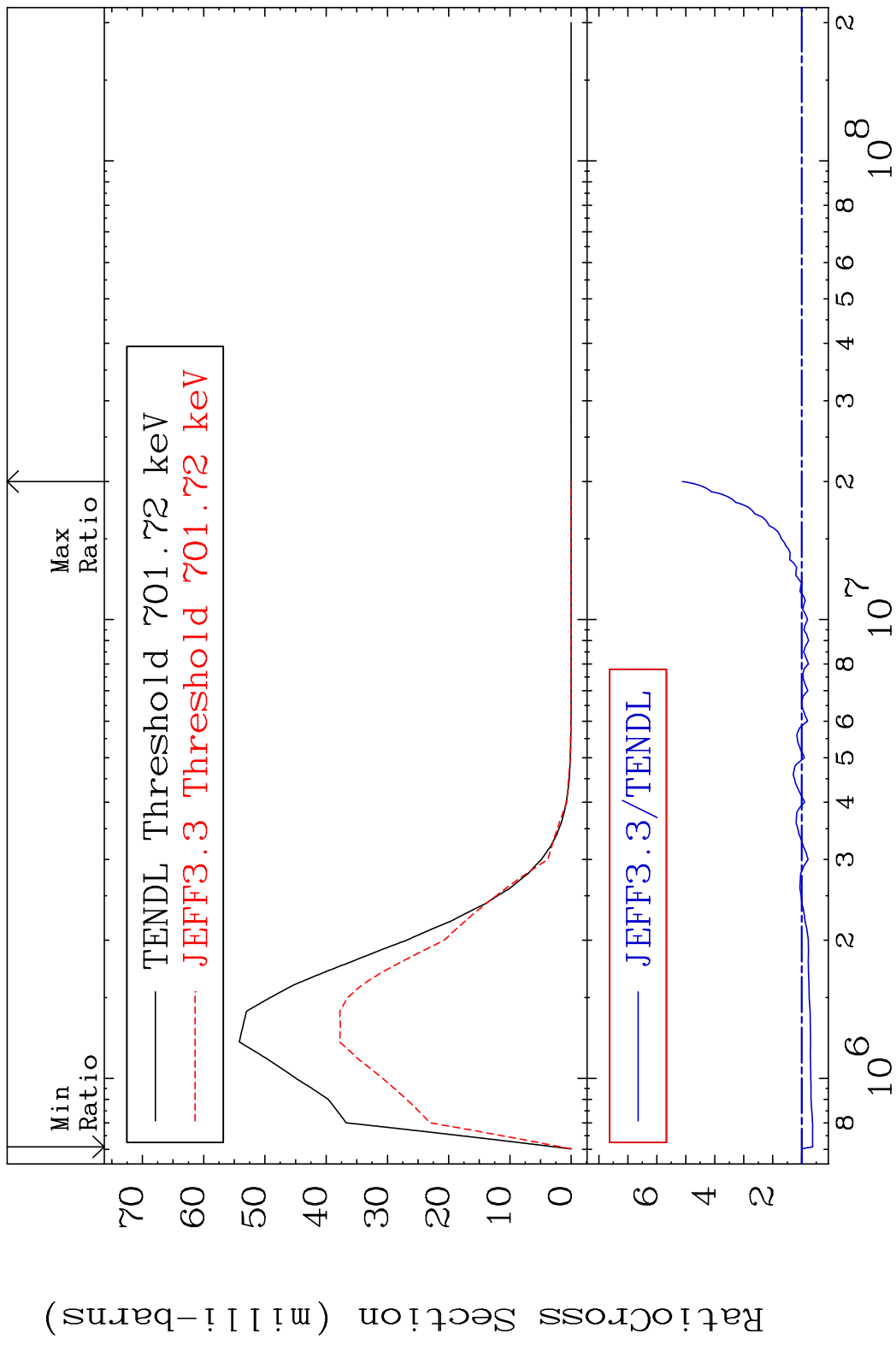


20

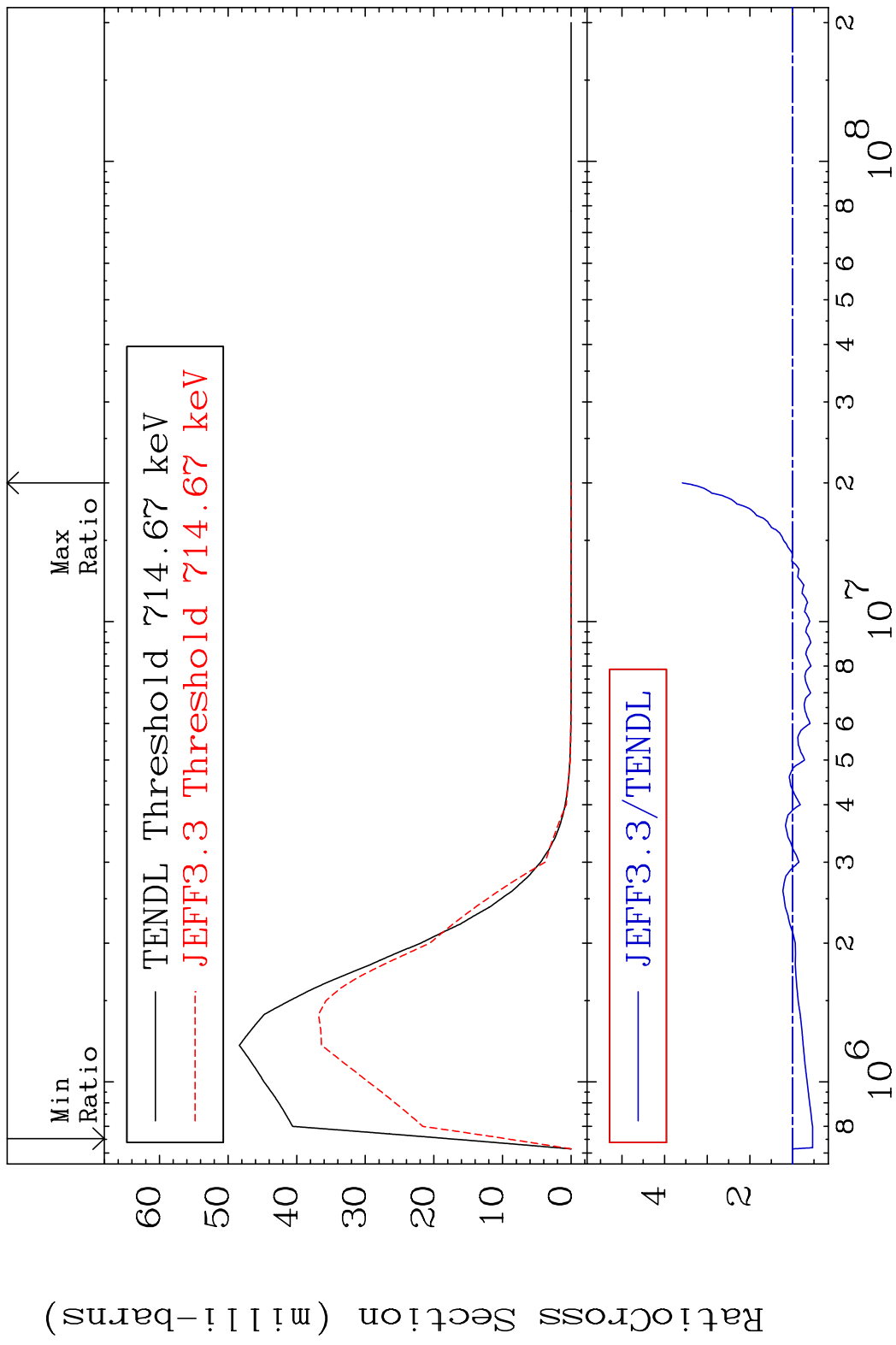
Incident Energy (eV)

62-Sm-149

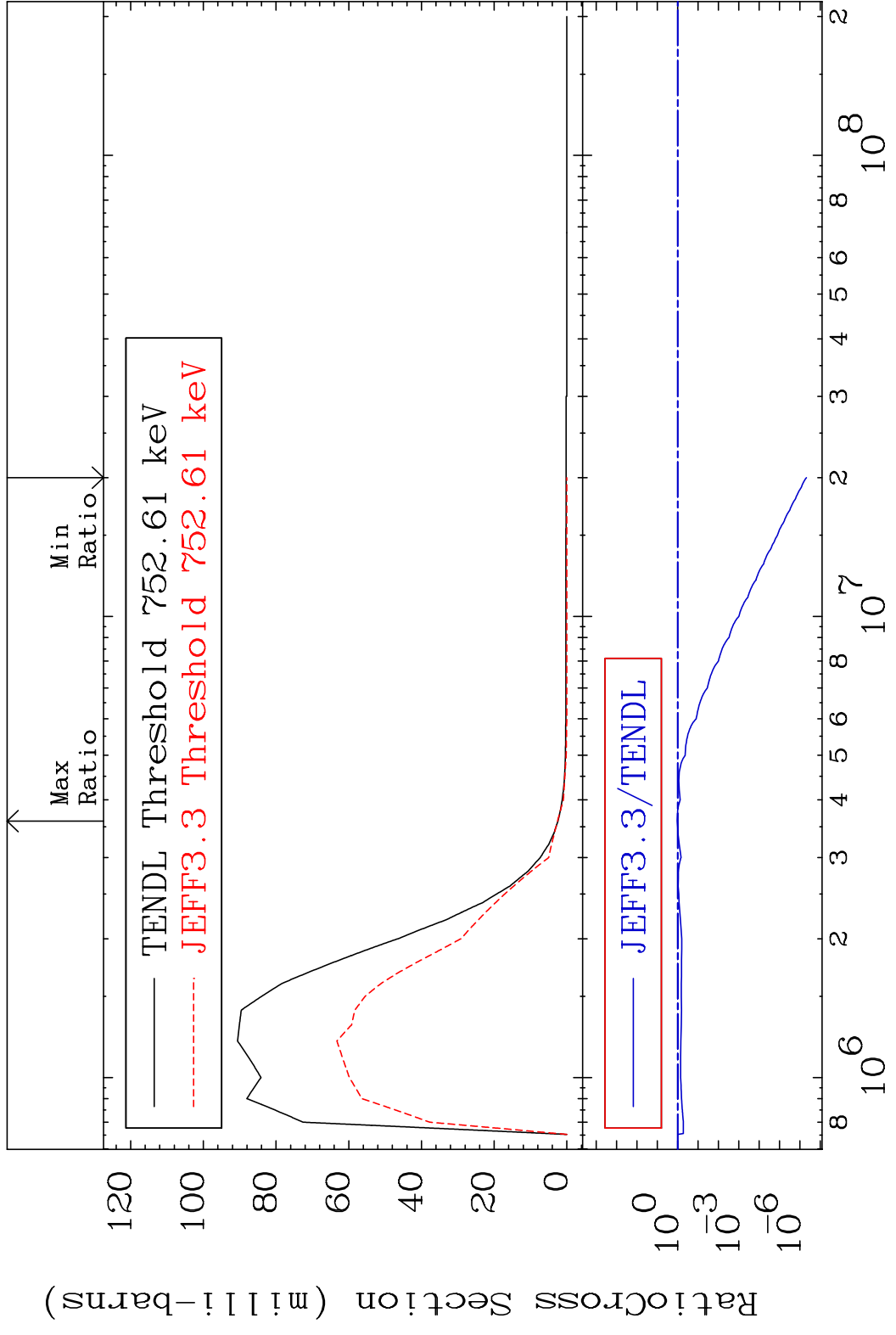
MAT 6240 MT= 62 (n, n') Level 62-Sm-149  
 Cross Section -37.31 To 411.8 %



MAT 6240 MT= 63 (n, n') Level 62-Sm-149  
 Cross Section -46.71 To 258.3 %

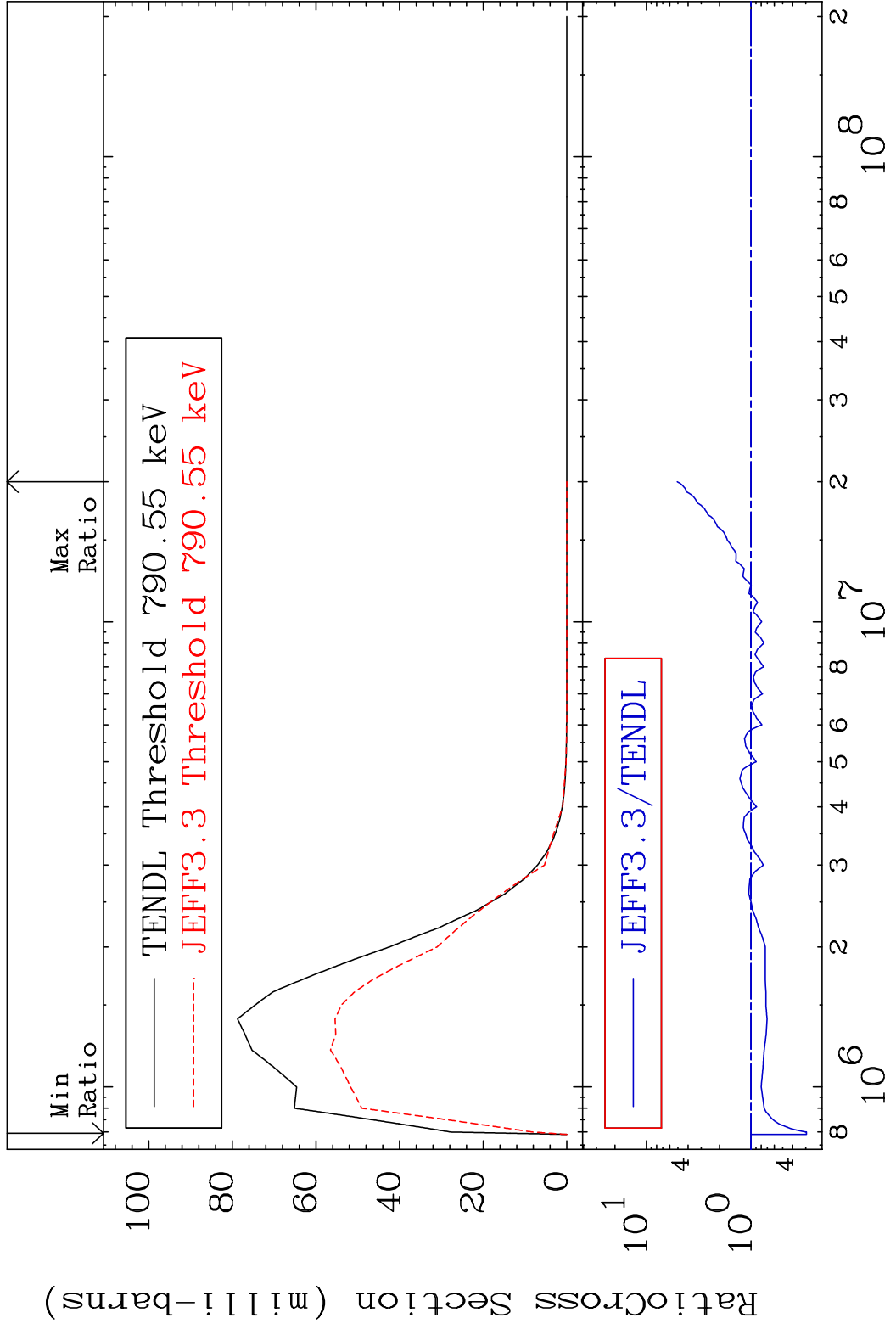


MAT 6240 MT= 64 (n, n') Level 62-Sm-149  
 Cross Section -100.0 To 5.099 %

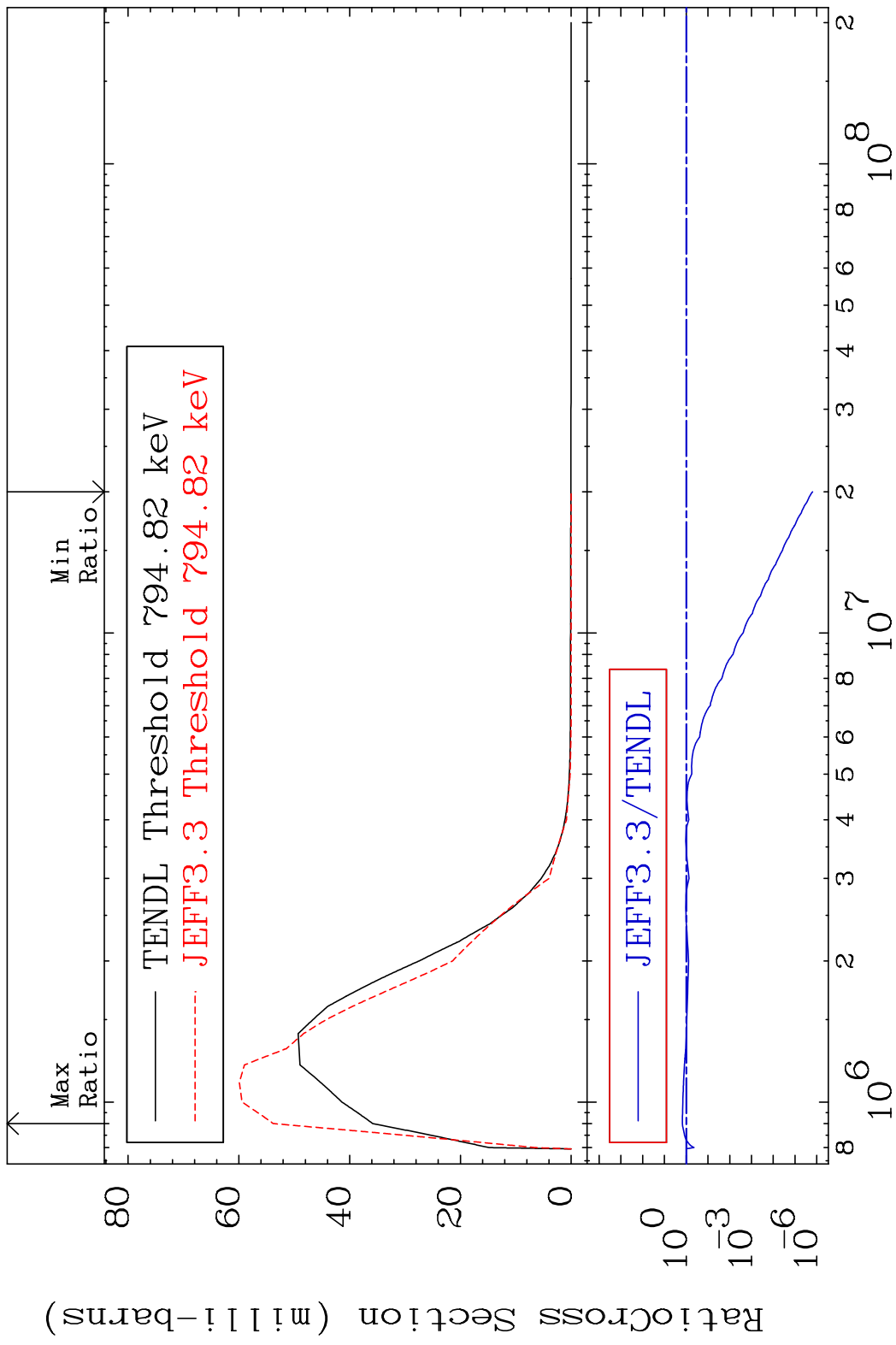




MAT 6240 MT= 65 (n, n') Level 62-Sm-149  
 Cross Section -70.38 To 408.5 %

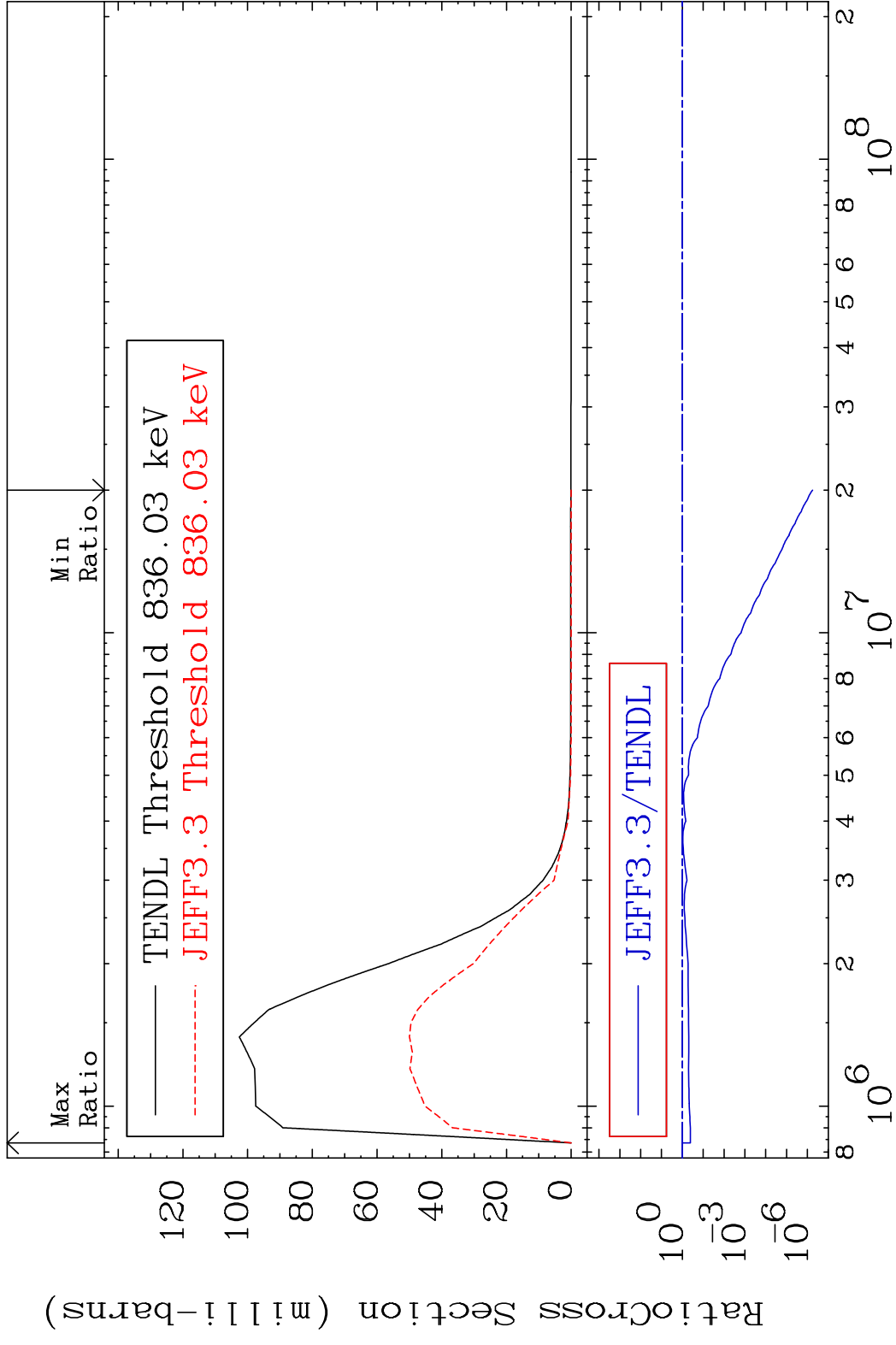


MAT 6240 MT= 66 (n, n') Level 62-Sm-149  
 Cross Section -100.0 To 50.15 %

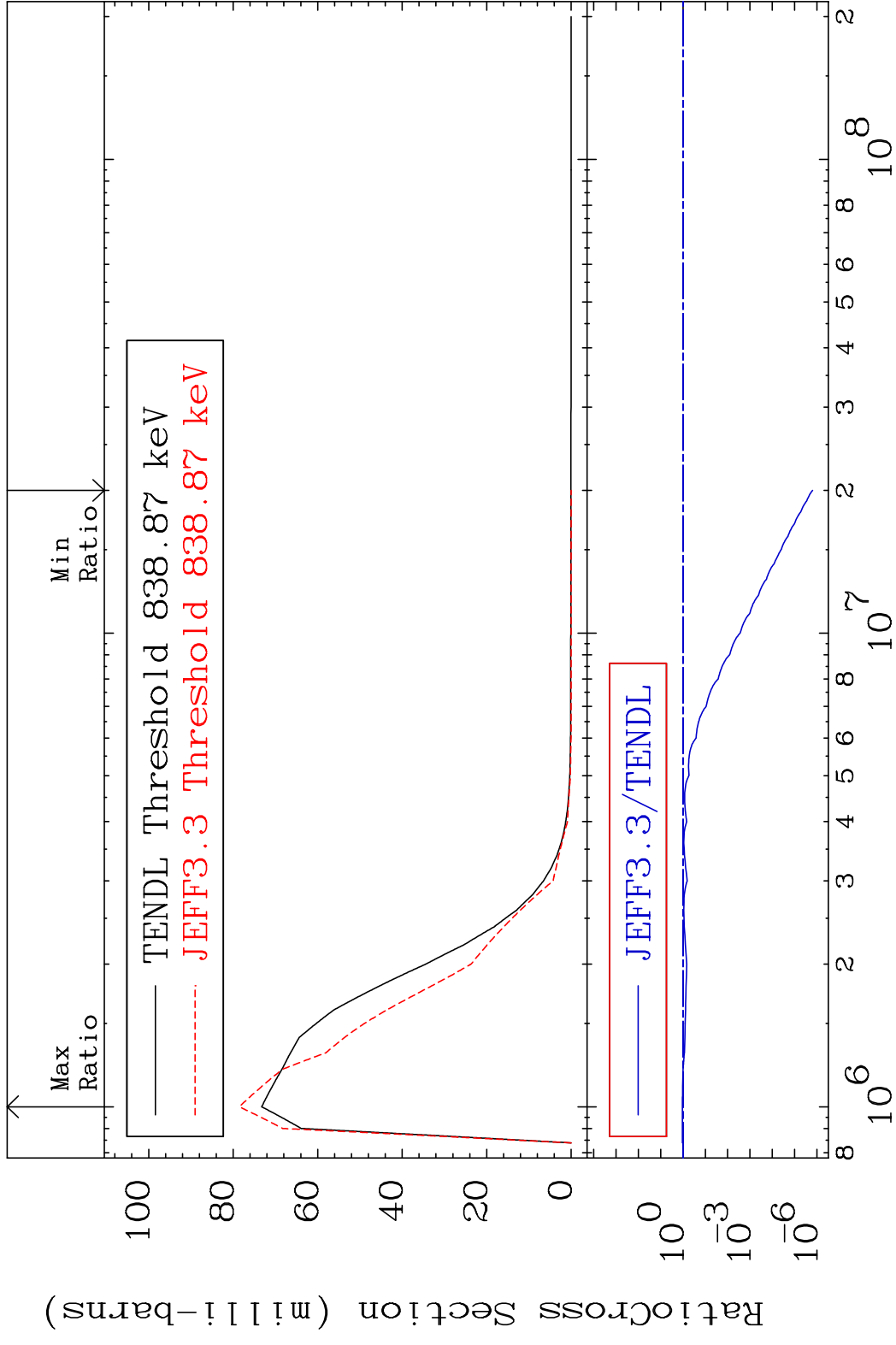


25 Incident Energy (eV) 62-Sm-149

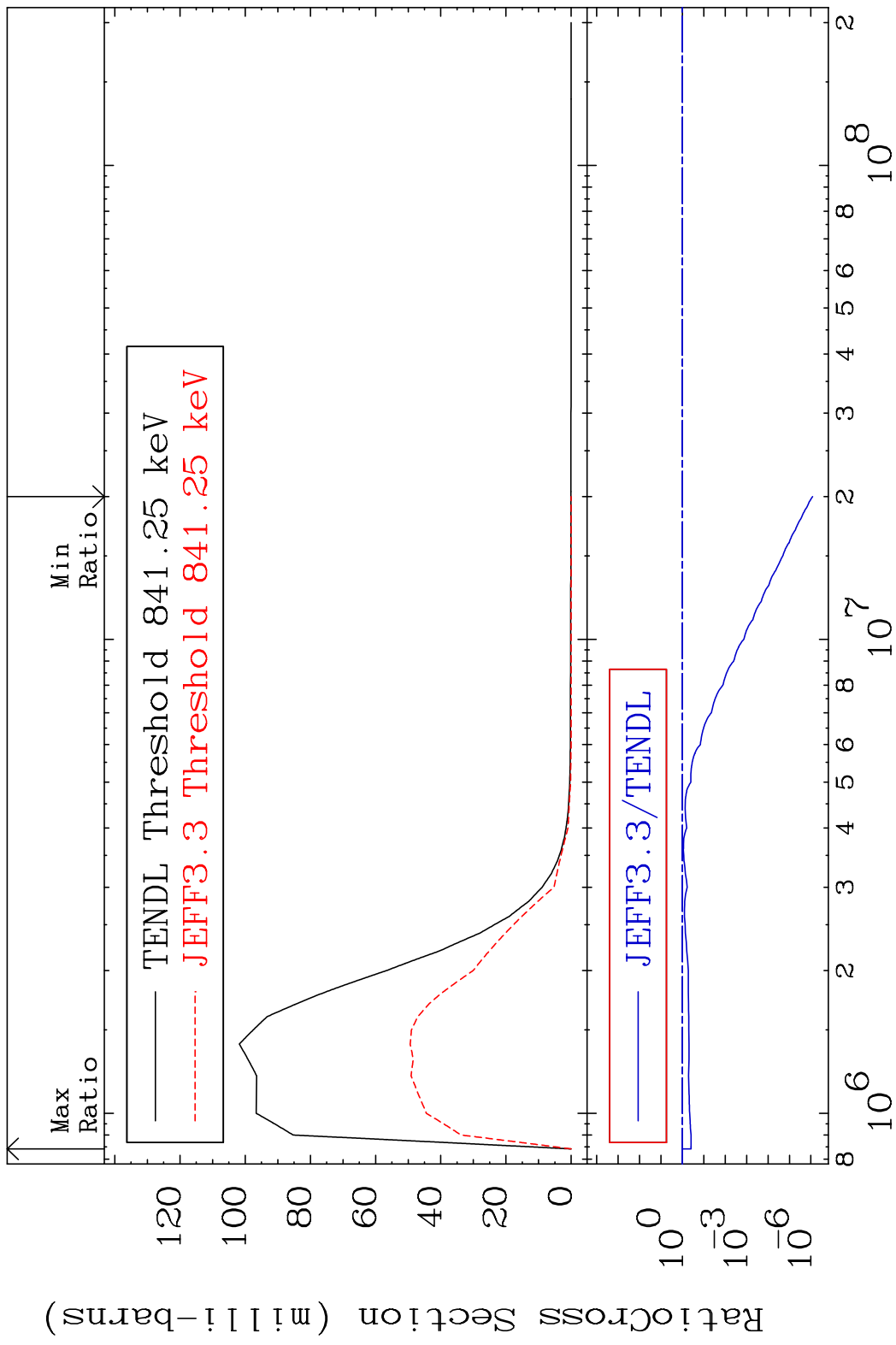
MAT 6240 MT= 67 (n, n') Level 62-Sm-149  
 Cross Section -100.0 To 0.000 %



MAT 6240 MT= 68 (n, n') Level 62-Sm-149  
 Cross Section -100.0 To 7.224 %

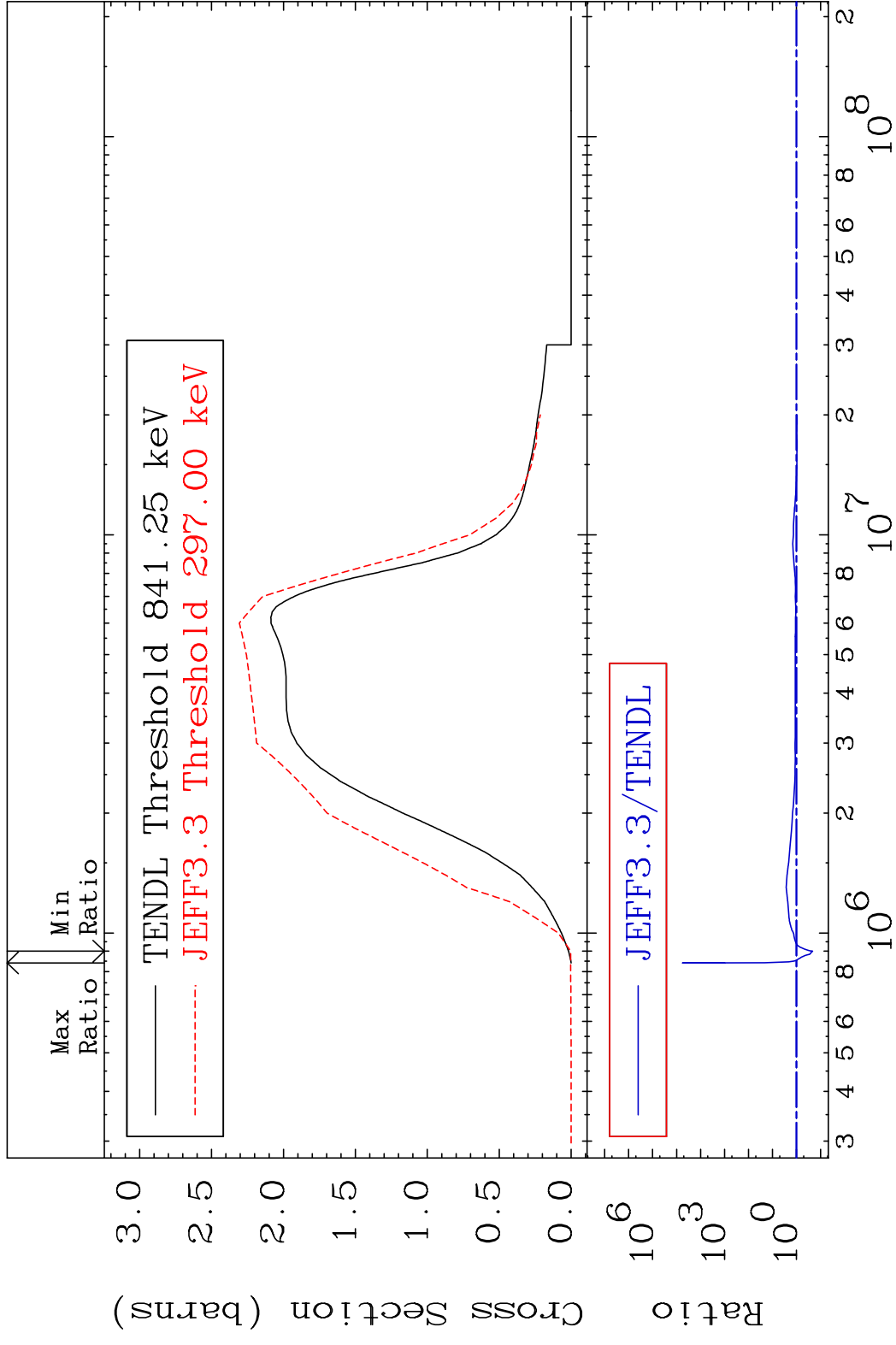


MAT 6240 MT= 69 (n, n') Level 62-Sm-149  
 Cross Section -100.0 To 0.000 %



28 Incident Energy (eV) 62-Sm-149

MAT 6240 (n,n') Continuum 62-Sm-149  
 Cross Section -78.57 To 9999. %

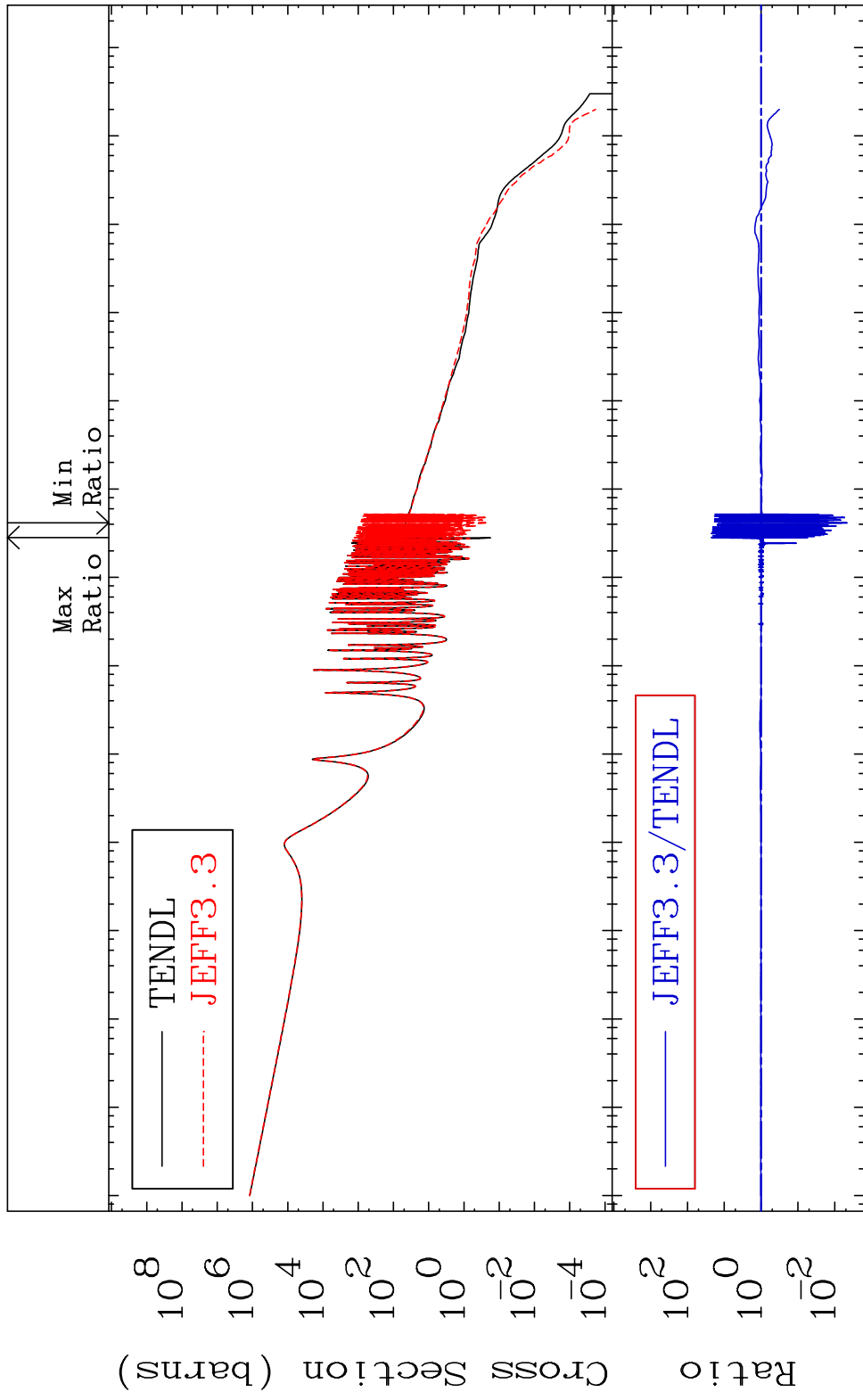


MAT 6240

(n,  $\gamma$ )

62-Sm-149

Cross Section -99.54 To 2121. %

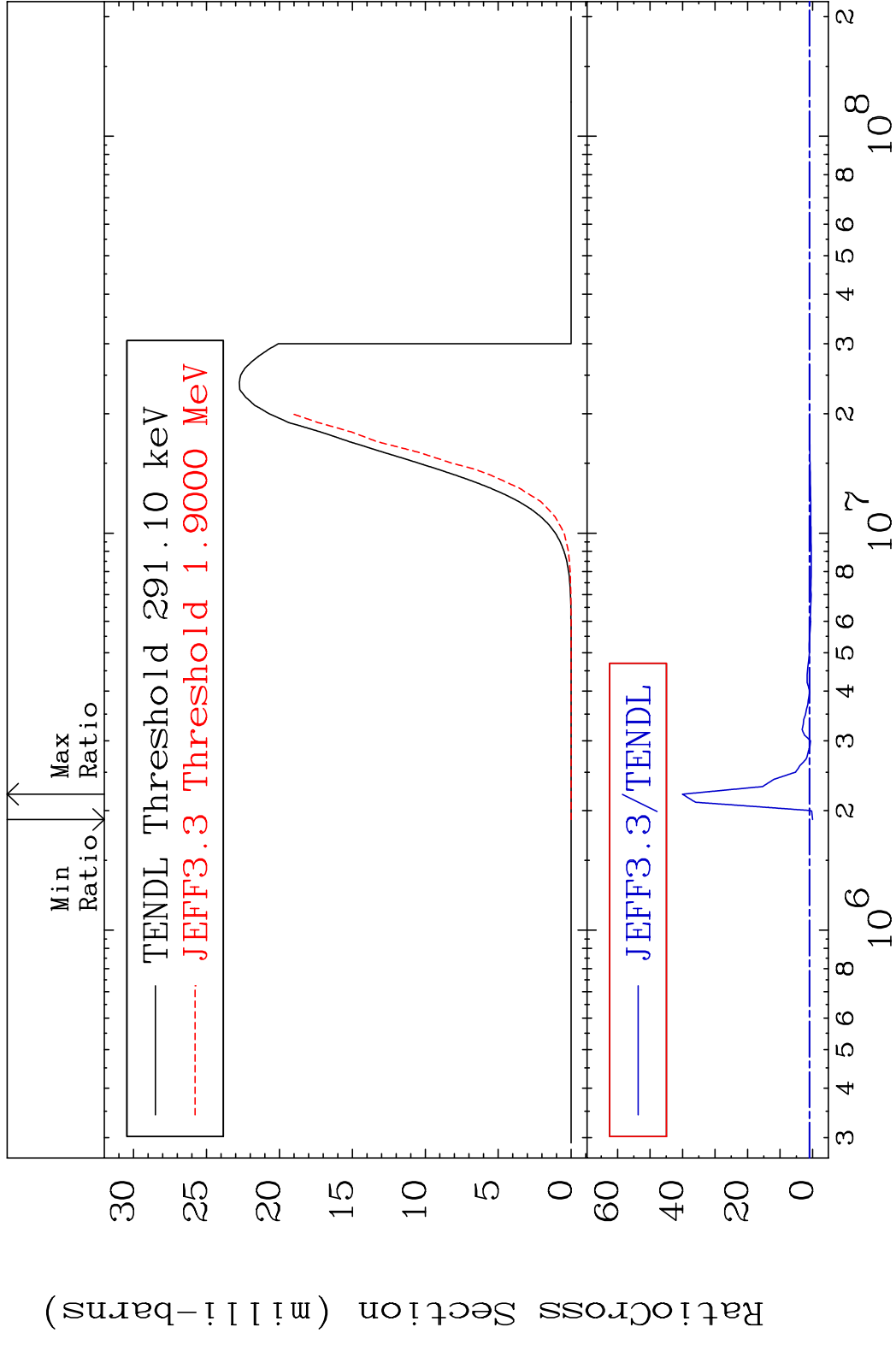


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Incident Energy (eV)

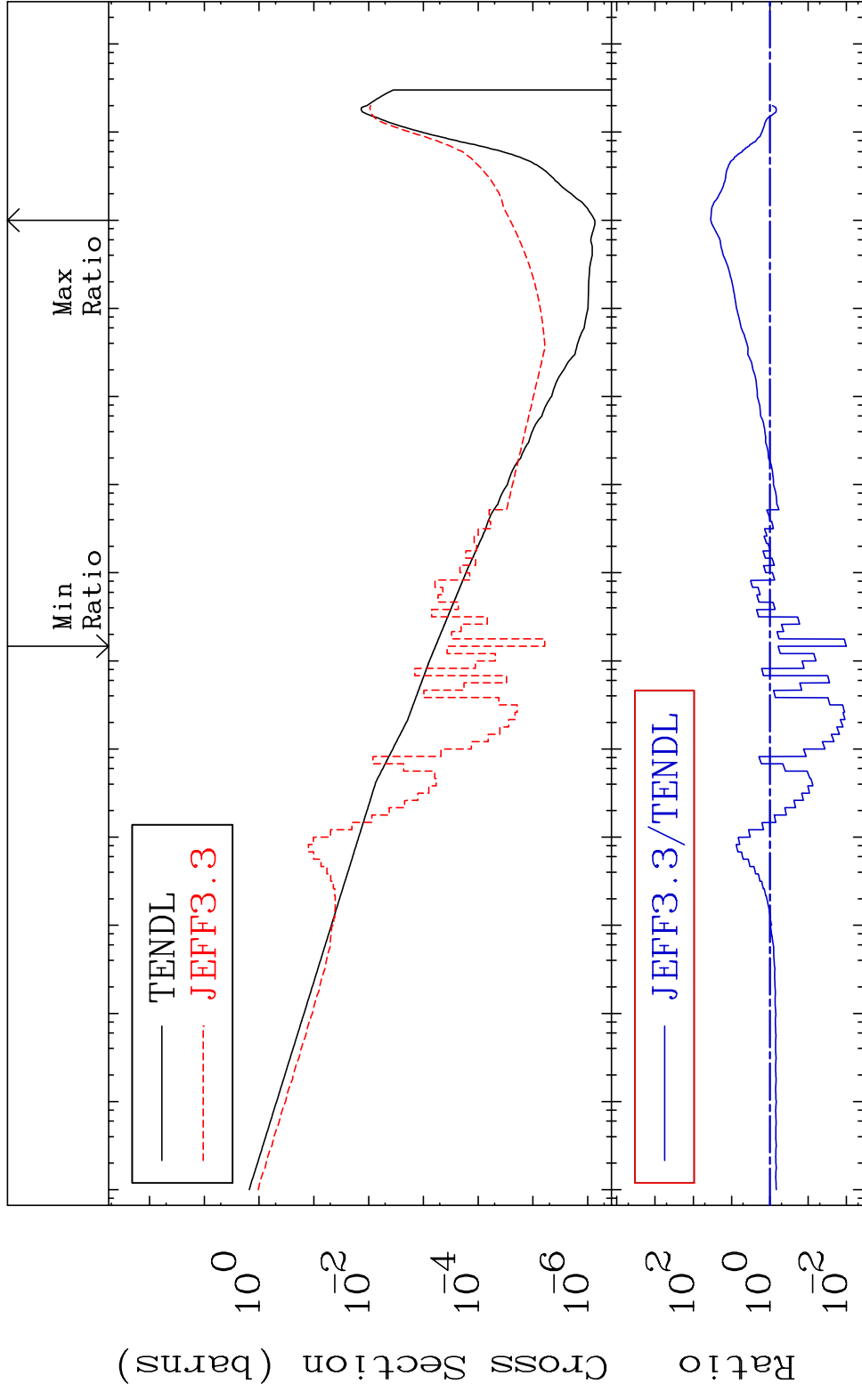
62-Sm-149

MAT 6240 (n,p) 62-Sm-149  
 Cross Section -100.0 To 3905. %





MAT 6240  $(n, \alpha)$  Cross Section  $62\text{-Sm-149}$   
 $-98.99$  To  $3416. \%$

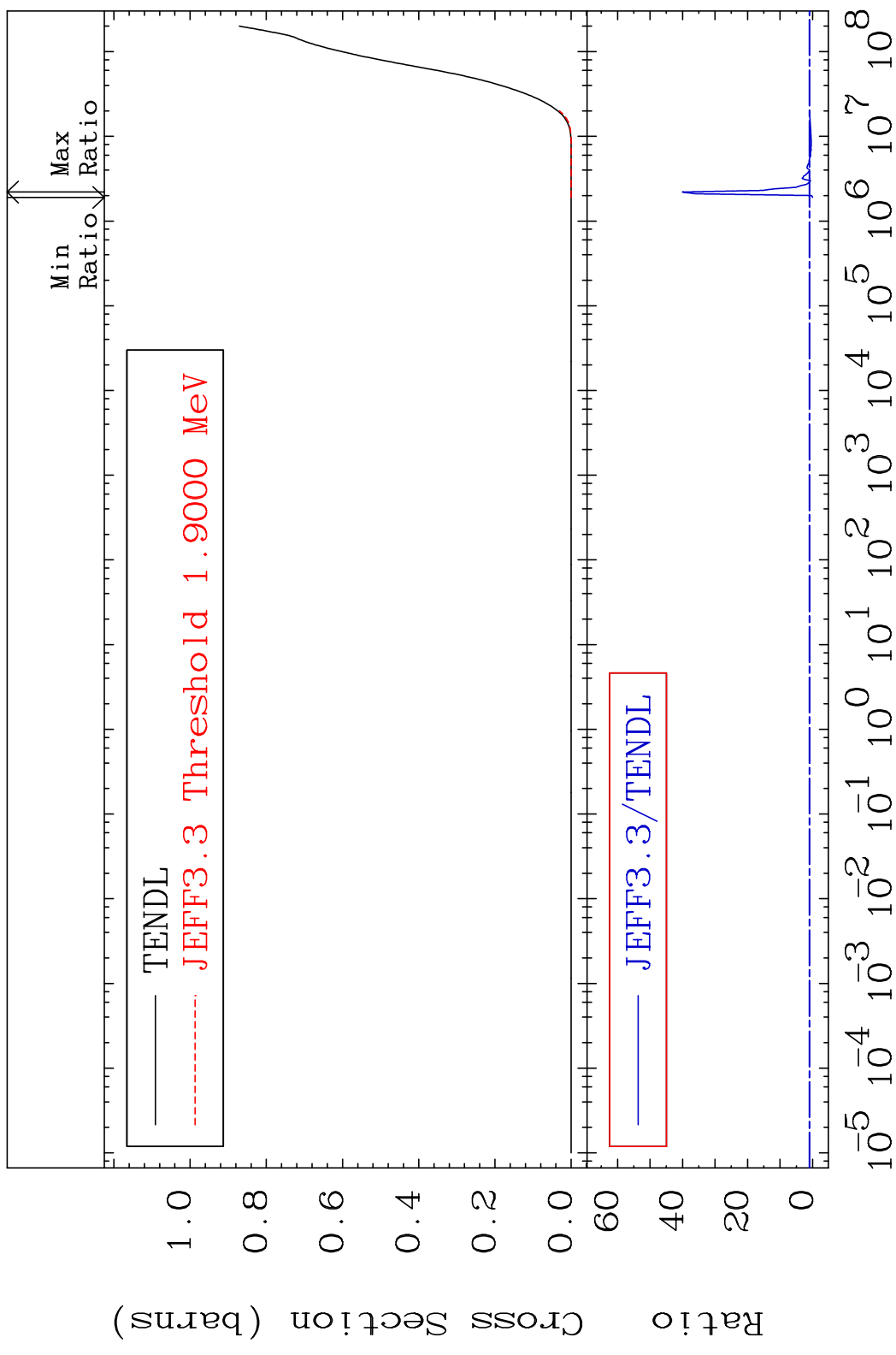


MAT 6240

Hydrogen Production

62-Sm-149

Cross Section -100.0 To 3905. %

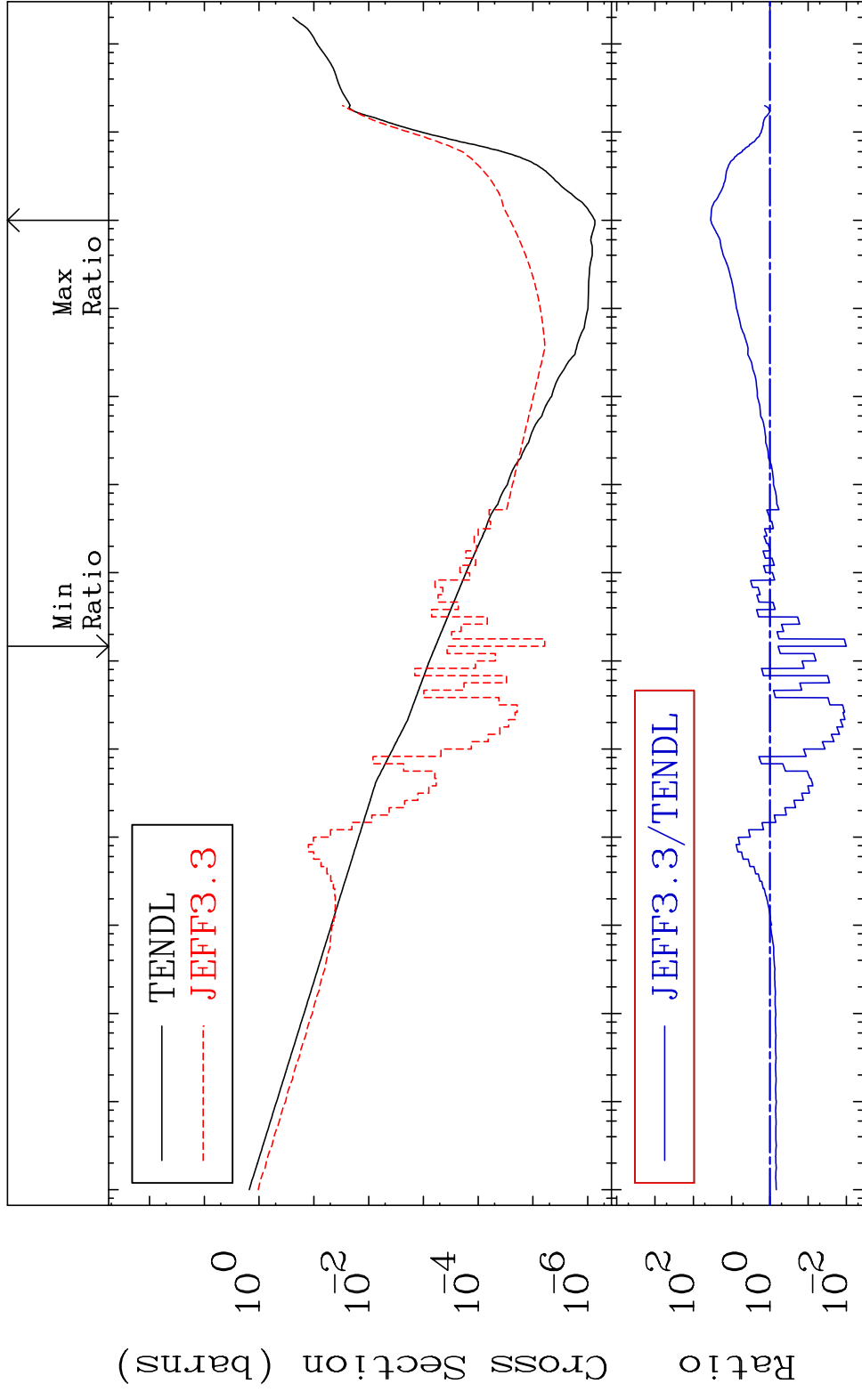


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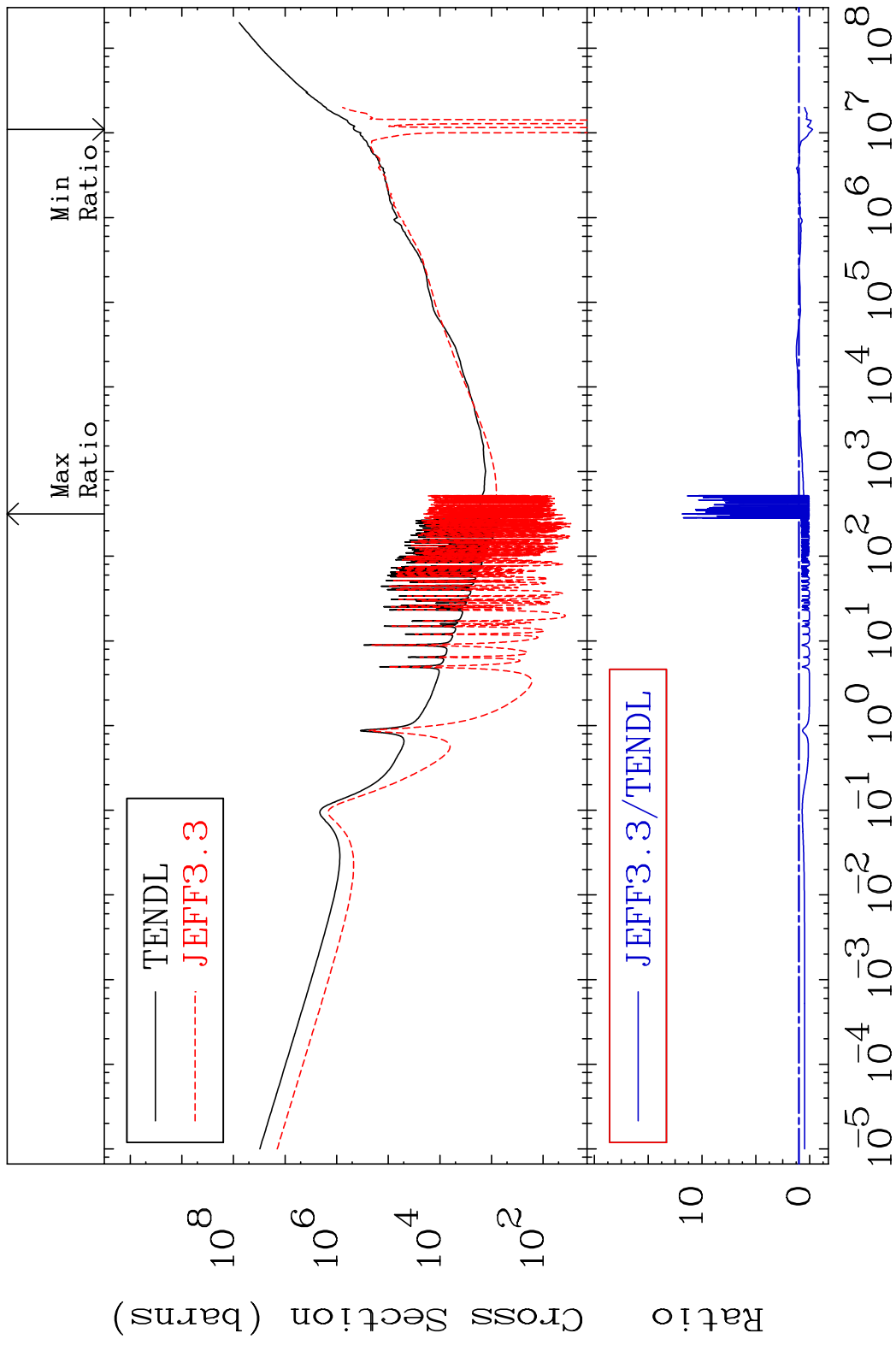
Incident Energy (eV)

62-Sm-149

MAT 6240 He-4 Production 62-Sm-149  
 Cross Section -98.99 To 3416. %

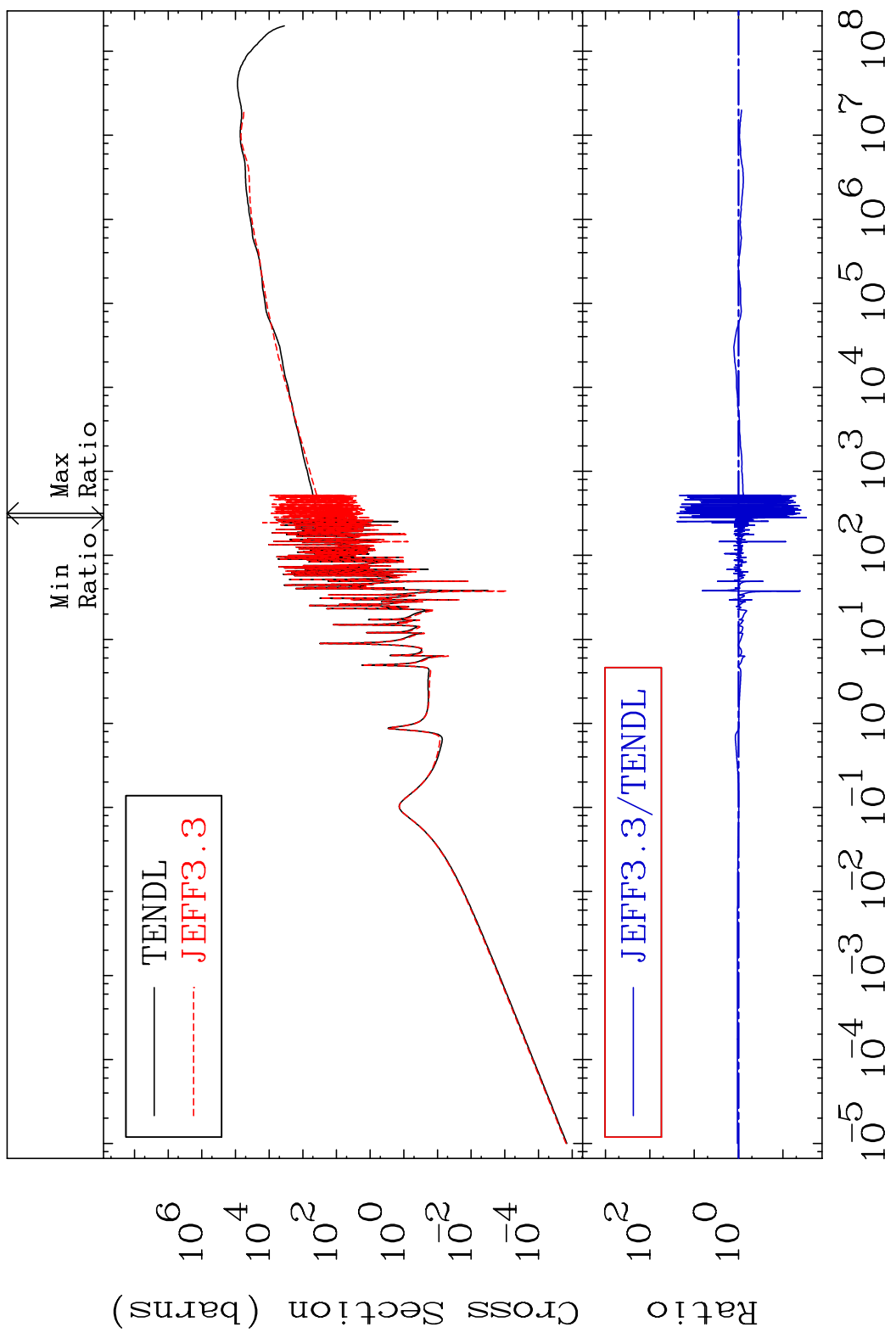


MAT 6240 Kerma total (eV-barns) 62-Sm-149  
 Cross Section -127.2 To 1083. %

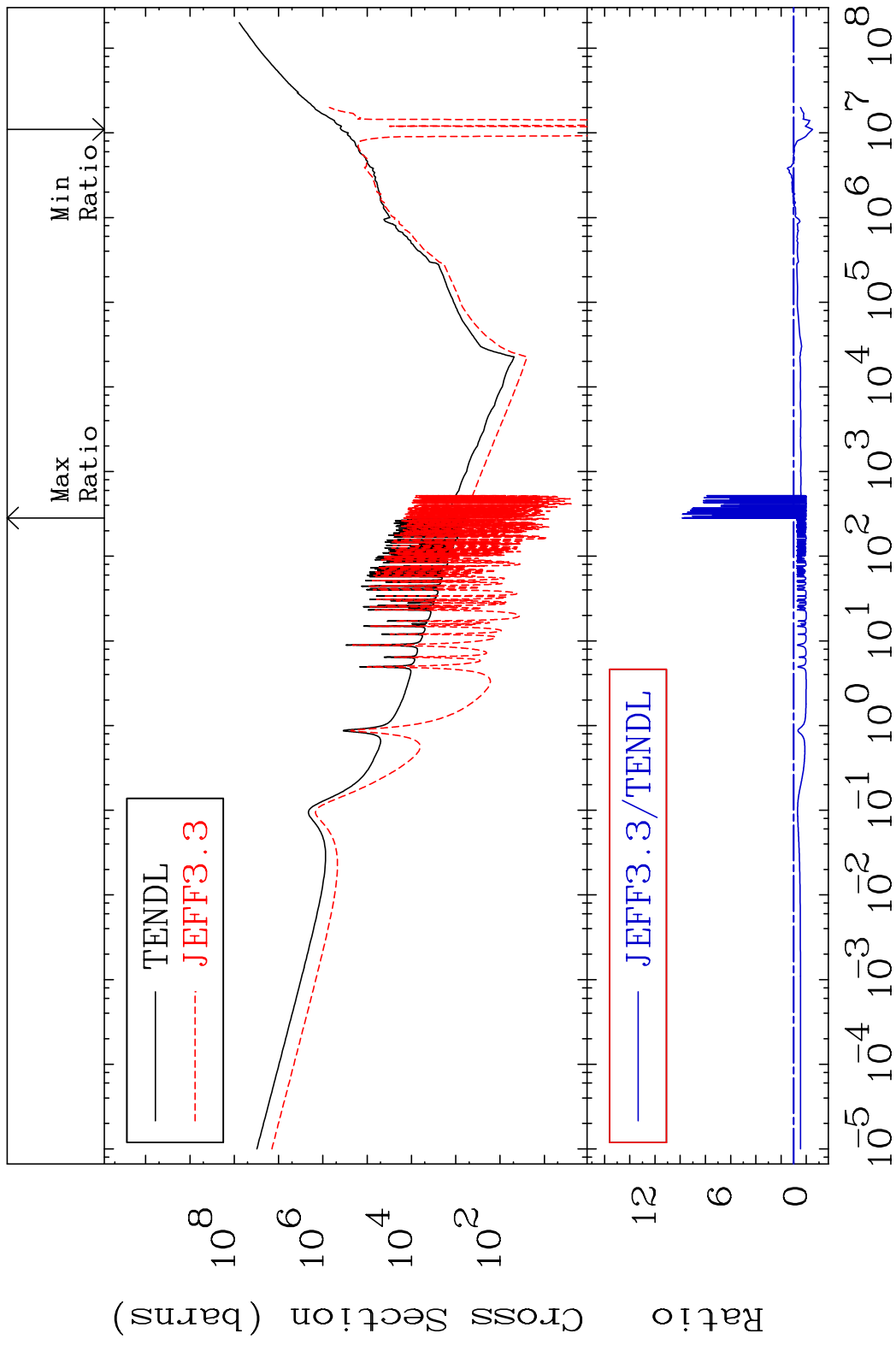


MAT 6240

Kerma elastic Cross Section -97.06 To 2311. %  
62-Sm-149

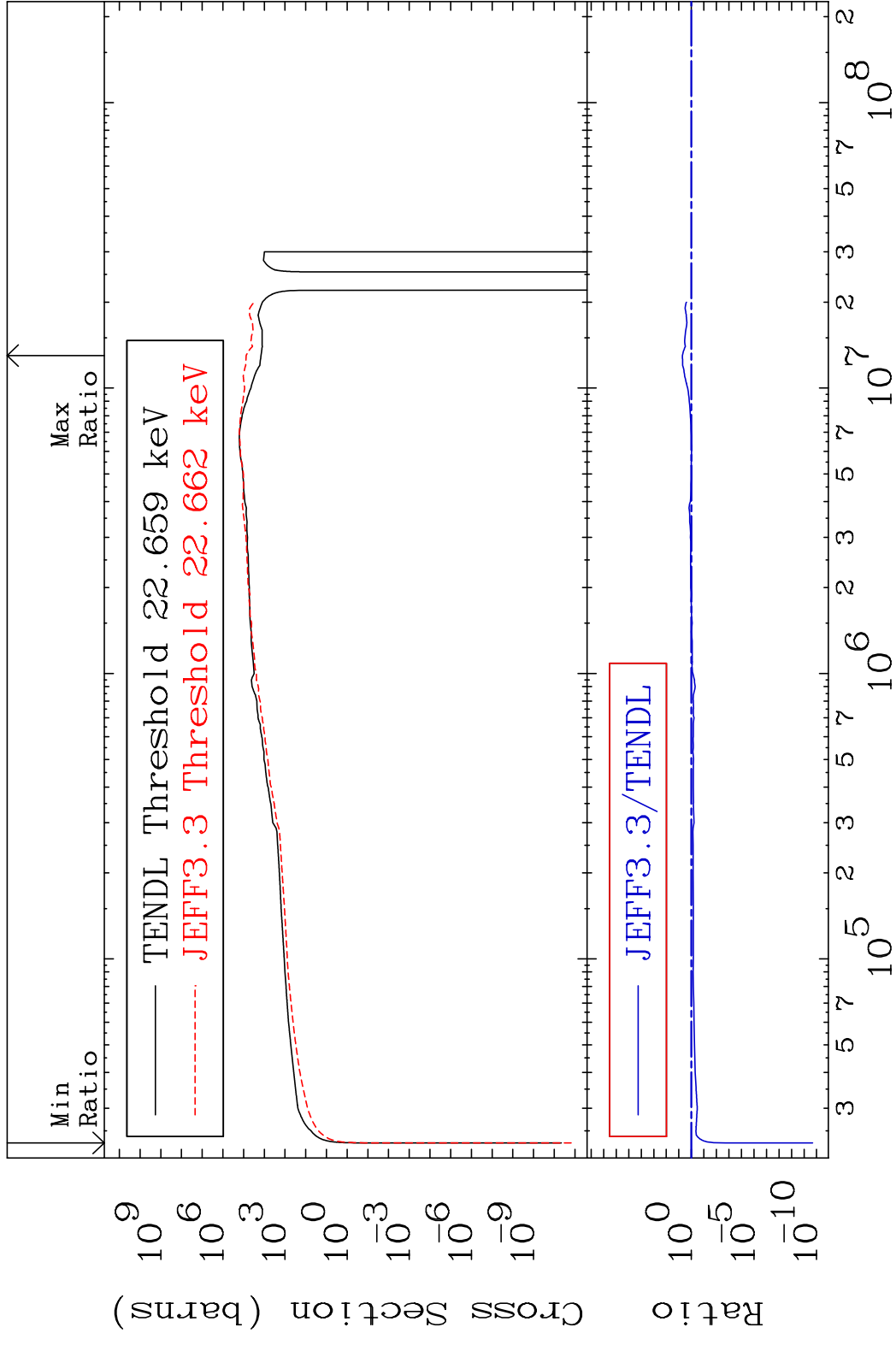


MAT 6240 Kerma non-elastic (all but mt2) 62-Sm-149  
 Cross Section -149.6 To 883.0 %

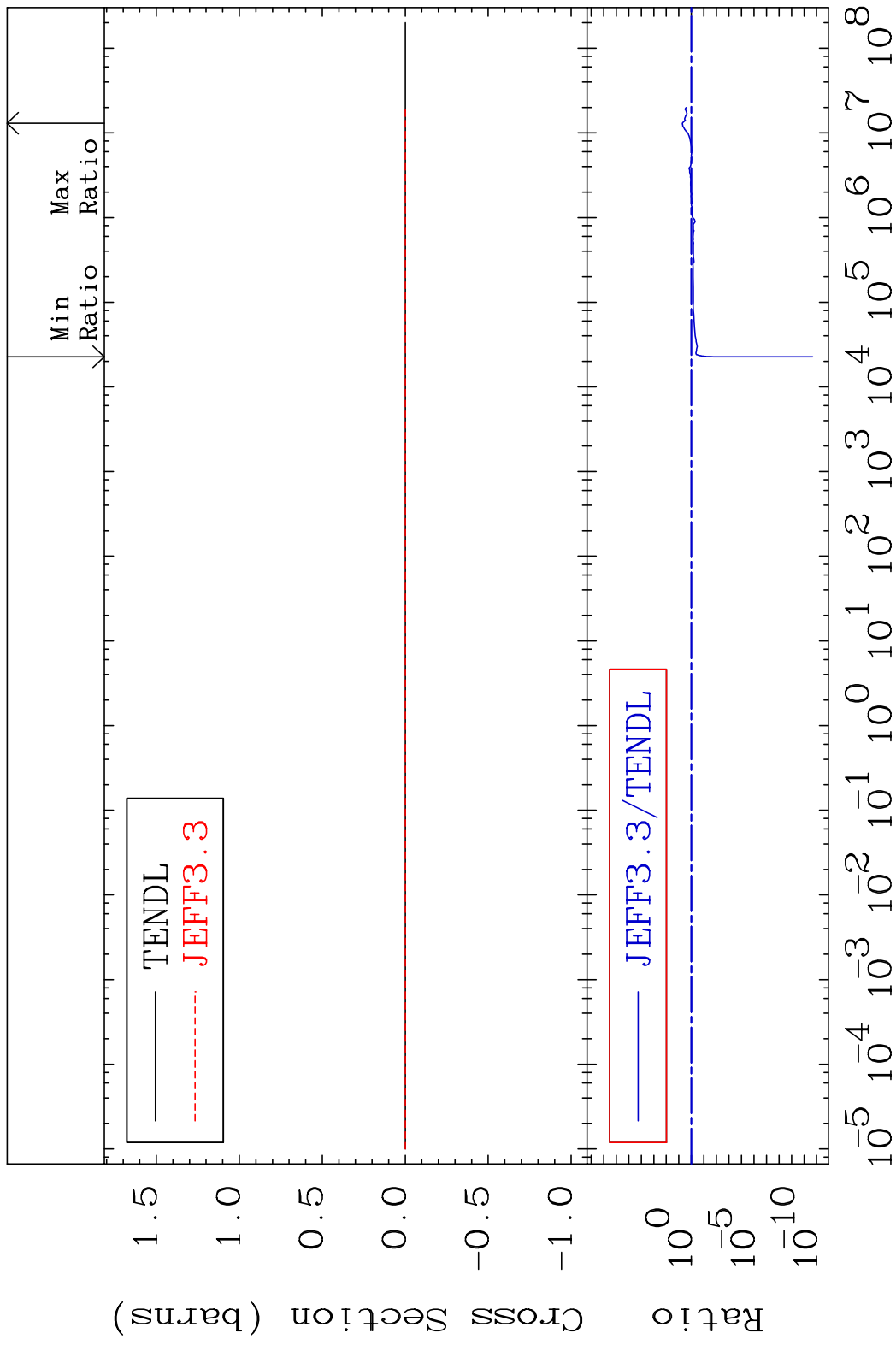


37 Incident Energy (eV) 62-Sm-149

MAT 6240 Kerma inelastic (mt51-91) 62-Sm-149  
 Cross Section -100.0 To 423.5 %



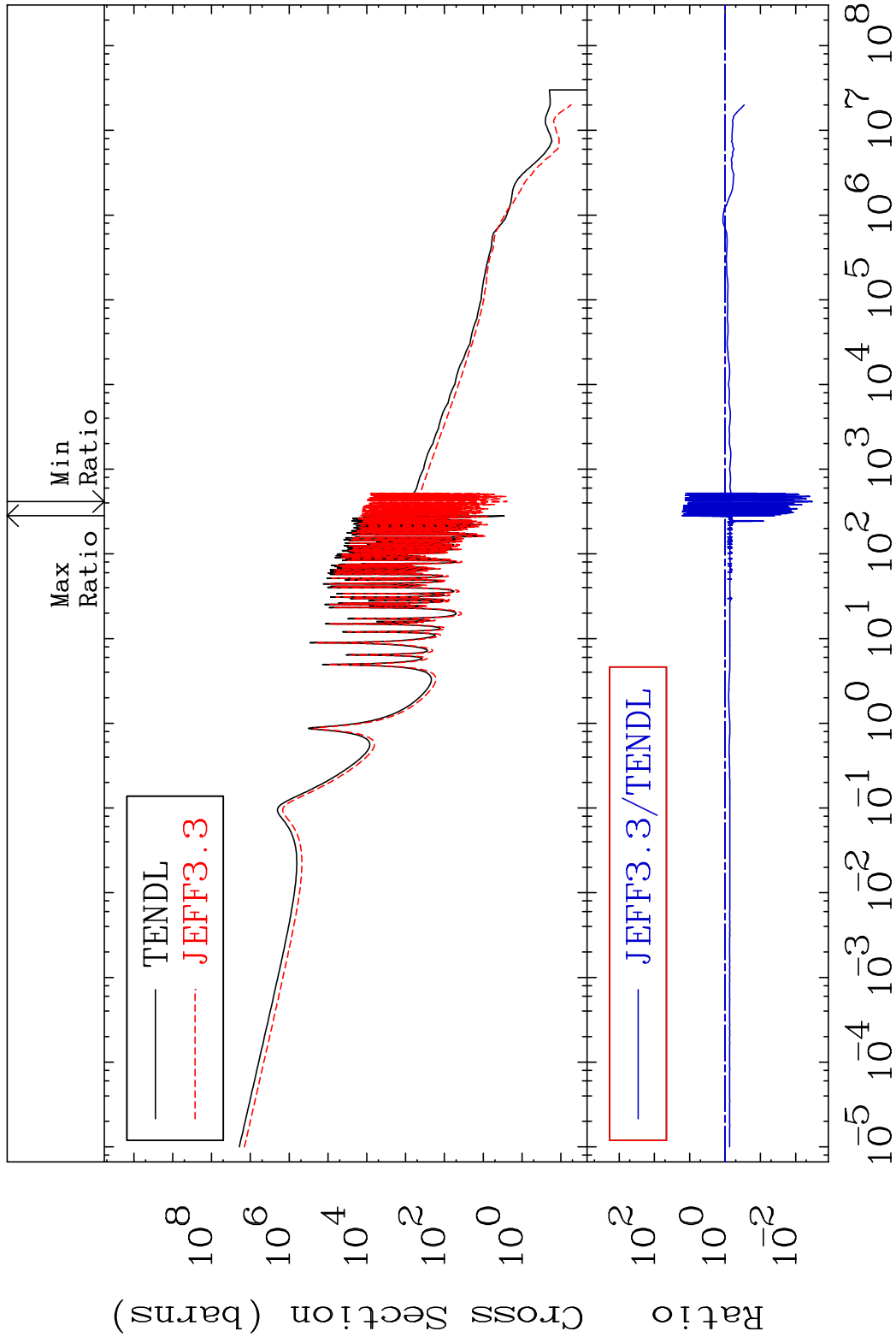
MAT 6240 Kerma fission (mt18 or mt19-20-21-38) 62-Sm-149  
 Cross Section -100.0 To 423.5 %





MAT 6240

Kerma capture (mt102) 62-Sm-149  
Cross Section -99.67 To 1520. %



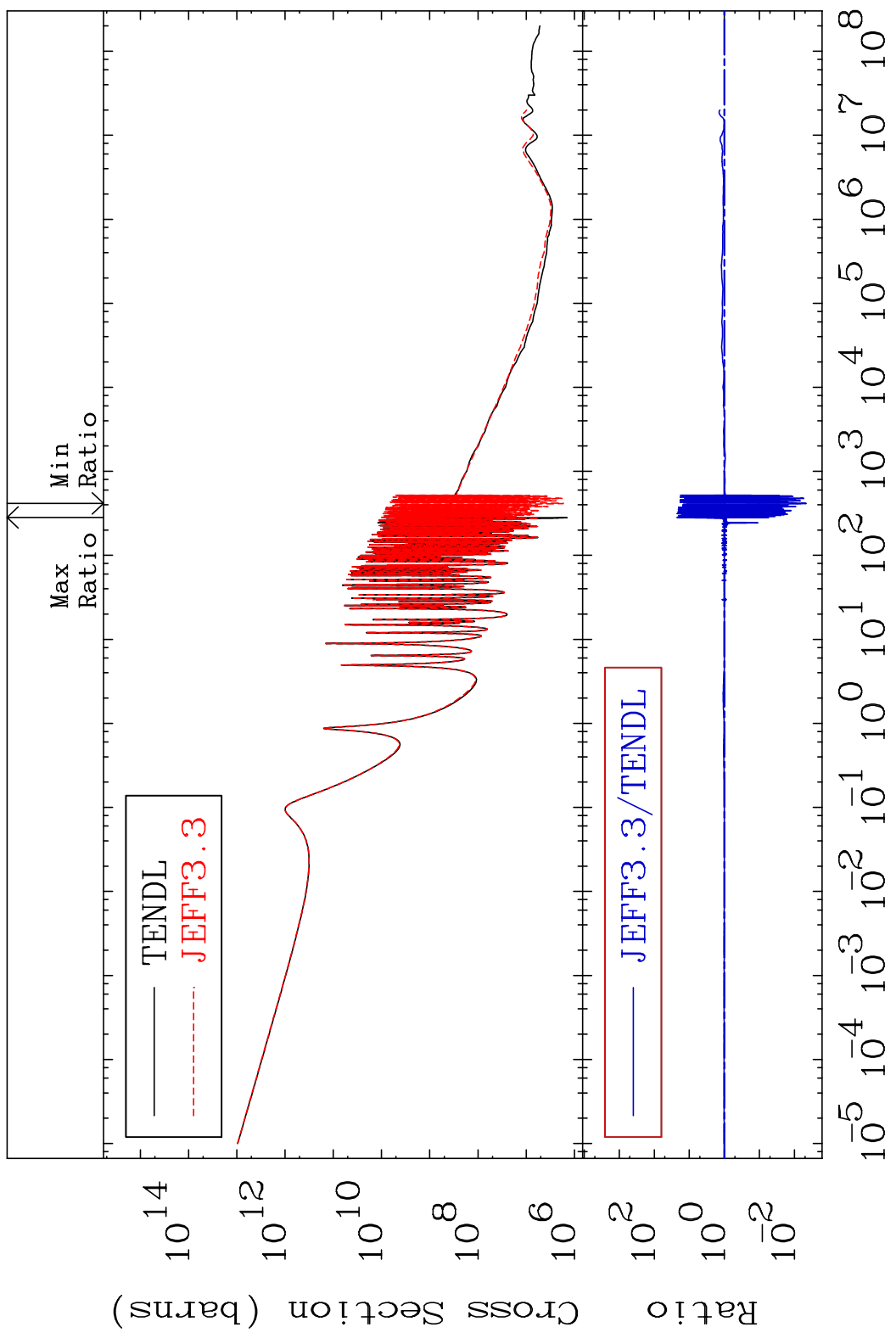
40

Incident Energy (eV)

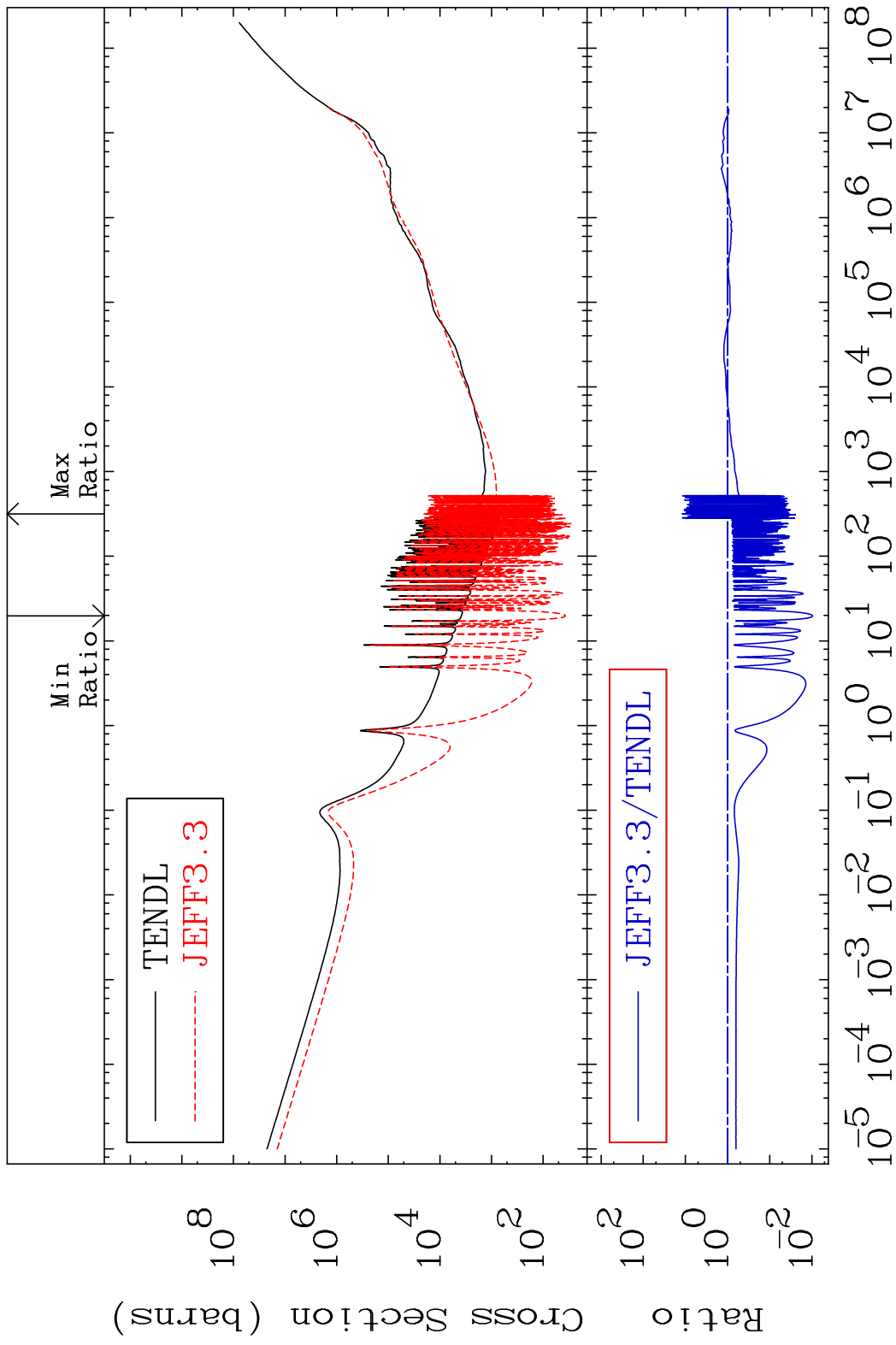
62-Sm-149

MAT 6240

Total photon (eV-barns) 62-Sm-149  
Cross Section -99.54 To 2121. %



MAT 6240 Total kinematic kerma (high limit) 62-Sm-149  
 Cross Section -99.04 To 1081. %

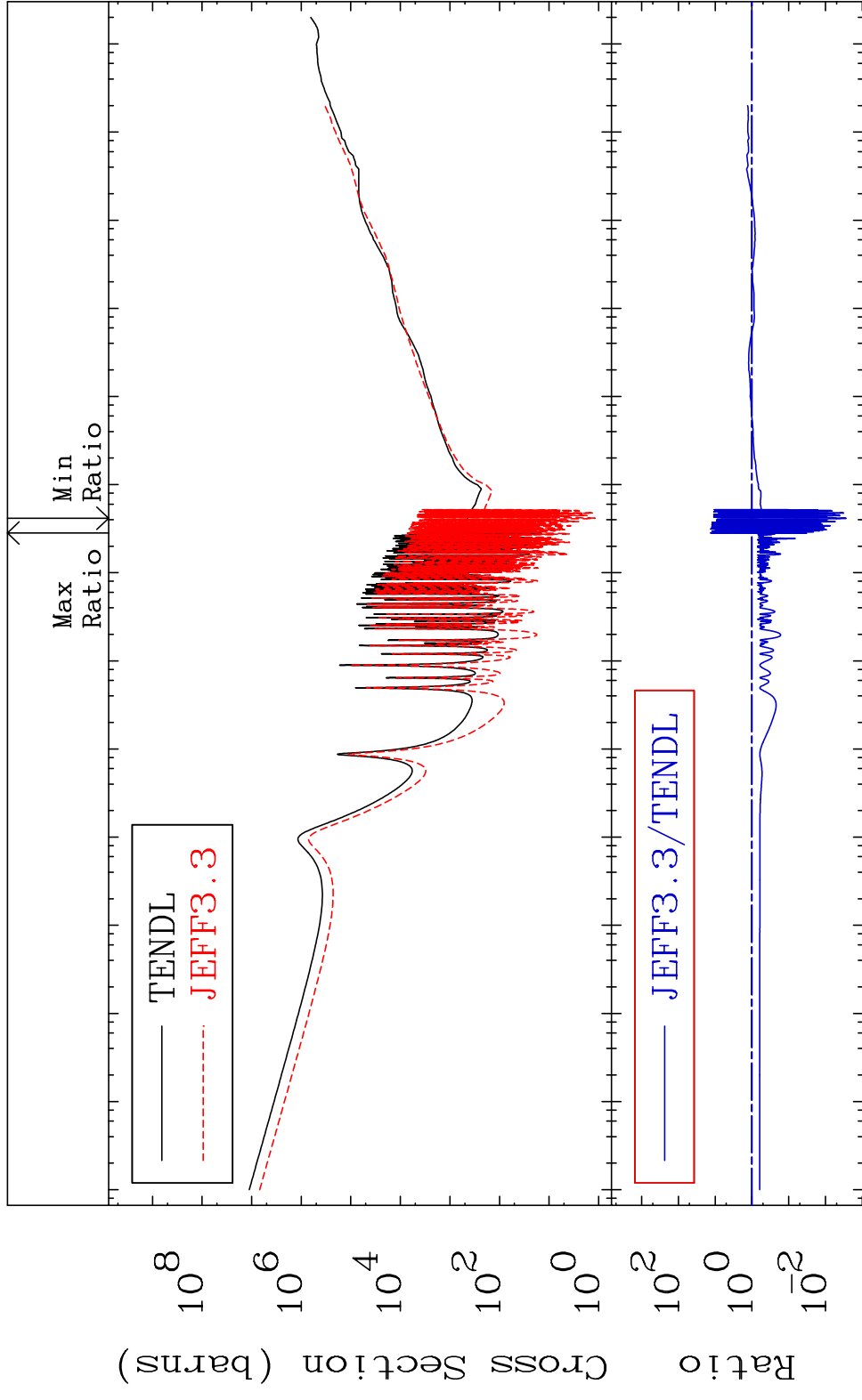


MAT 6240

Dpa total (eV-barns)

62-Sm-149

Cross Section -99.73 To 1220. %



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>

43

Incident Energy (eV)

62-Sm-149

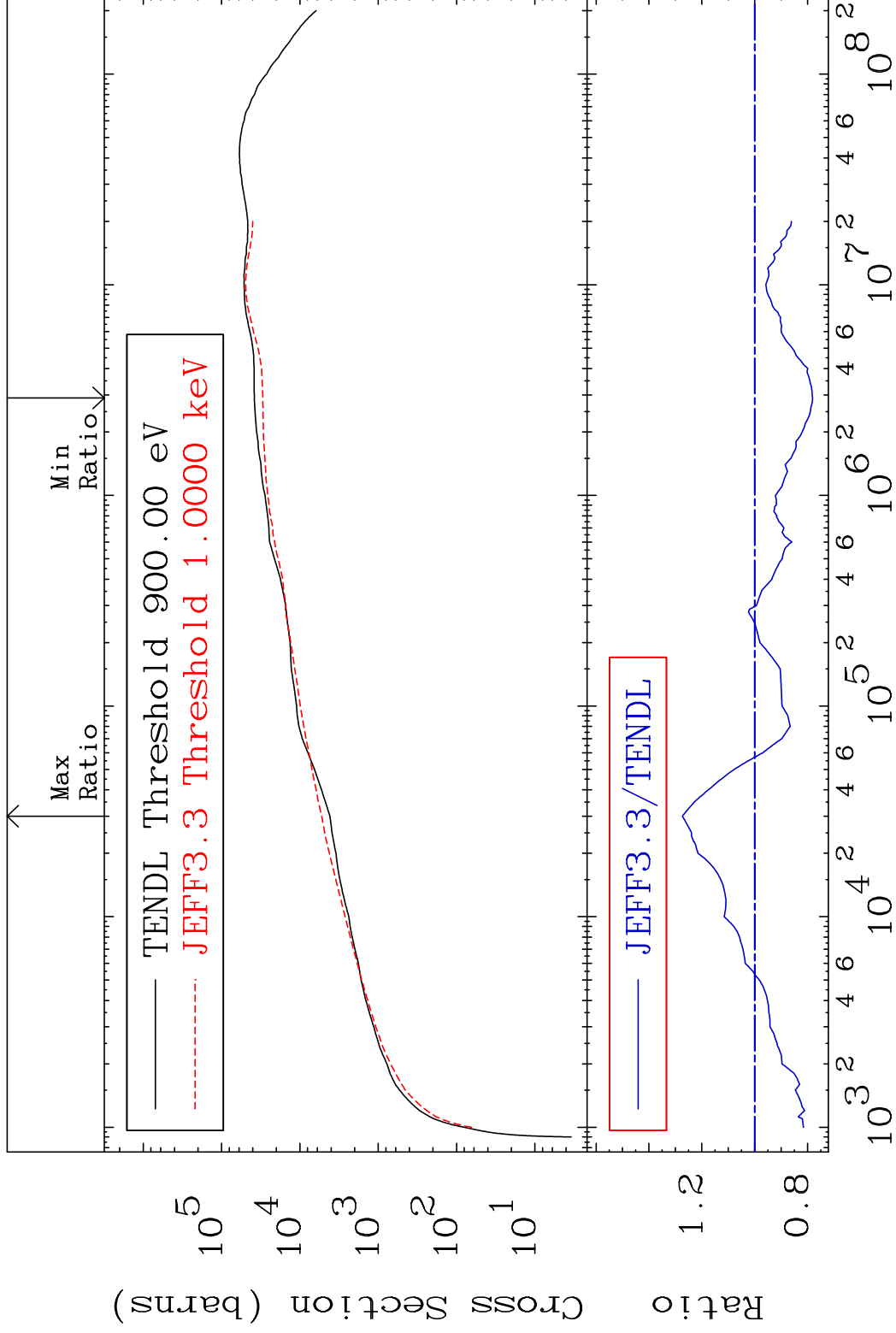
MAT 6240

Dpa elastic (mt2)

62-Sm-149

Cross Section

-21.91 To 27.35 %

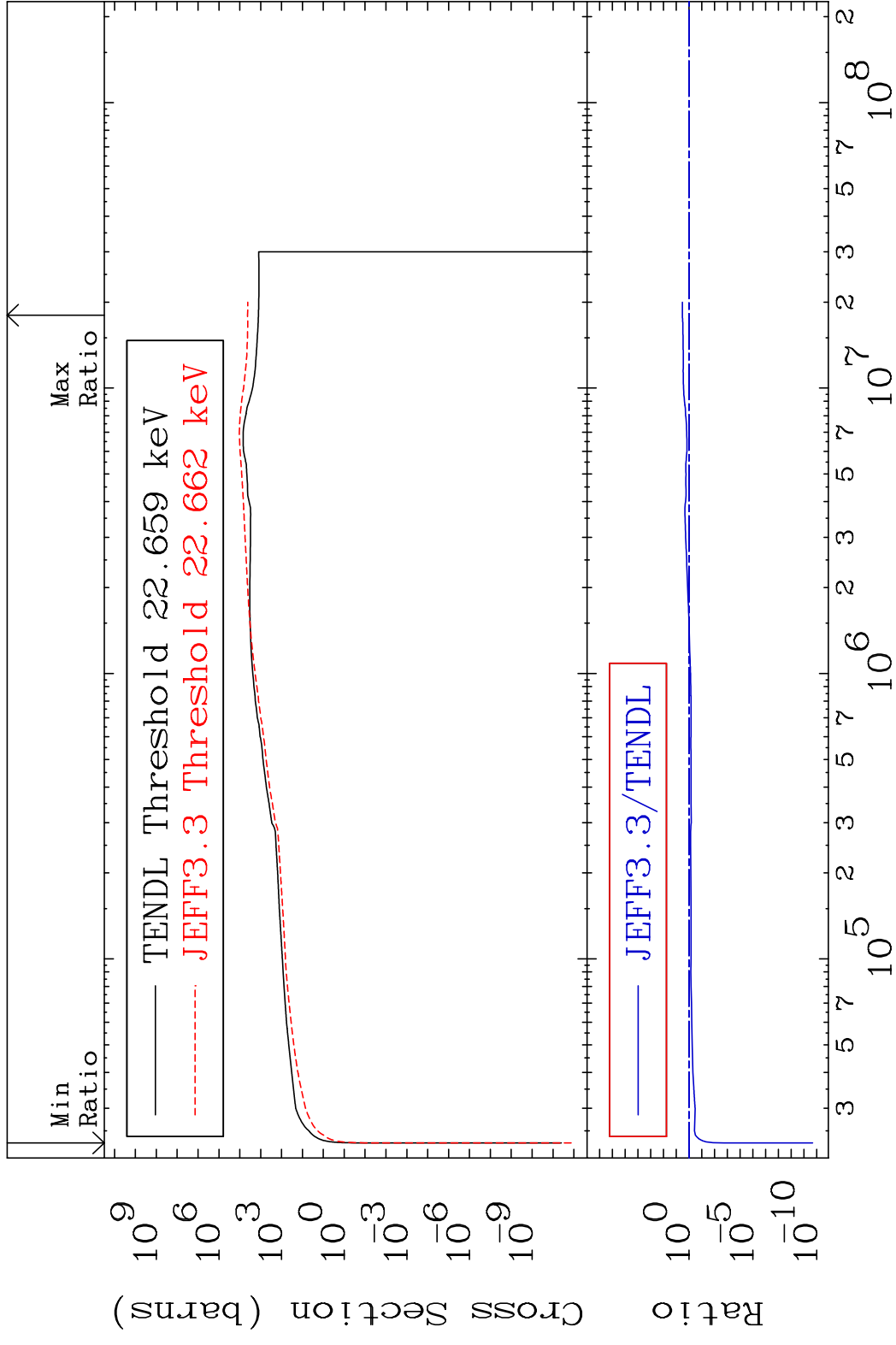


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Incident Energy (eV)

62-Sm-149

MAT 6240 Dpa inelastic (mt51-91) 62-Sm-149  
 Cross Section -100.0 To 233.7 %



MAT 6240 Dpa disappearance (mt102 -120) 62-Sm-149  
 Cross Section -99.73 To 1220. %

