

Program Complot  
(Version 2021-1)

by

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(Present Contact Information)

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U.S.A.

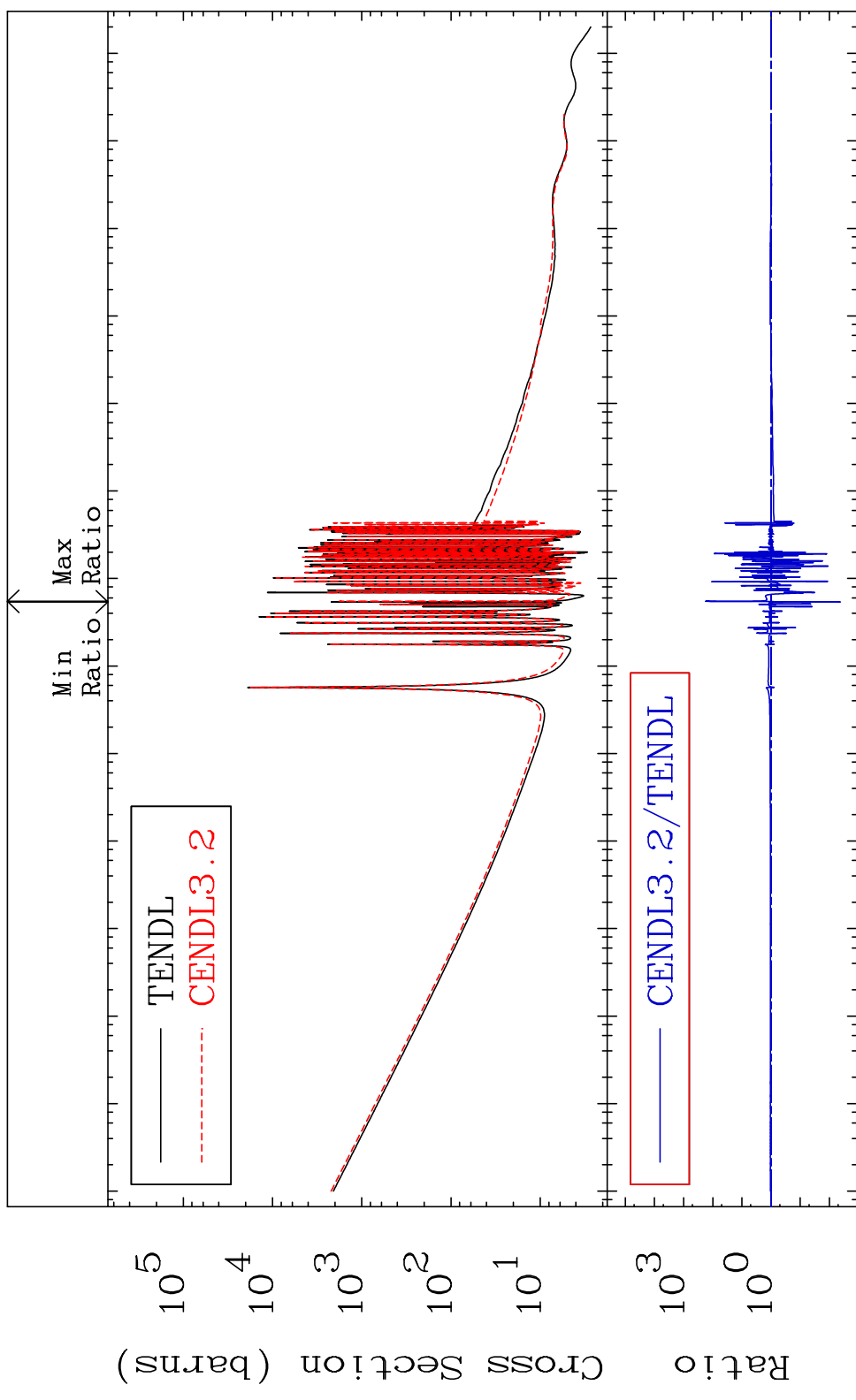
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 7240

Total Cross Section -99.58 To 9999. %  
72-Hf-179



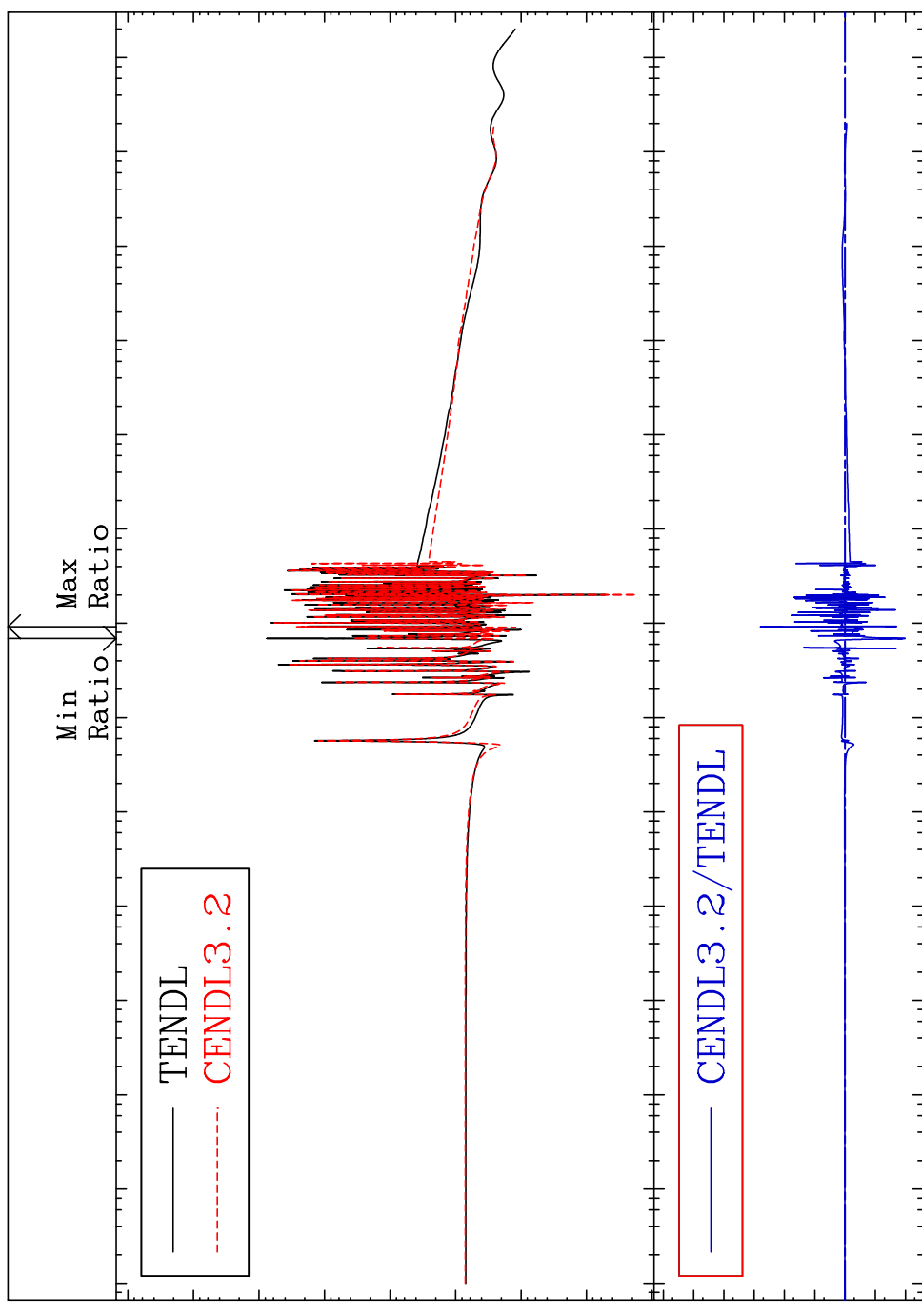
10<sup>5</sup> 10<sup>4</sup> 10<sup>3</sup> 10<sup>2</sup> 10<sup>1</sup> 10<sup>0</sup> 10<sup>-1</sup> 10<sup>-2</sup> 10<sup>-3</sup> 10<sup>-4</sup> 10<sup>-5</sup>

10<sup>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) 72-Hf-179

MAT 7240

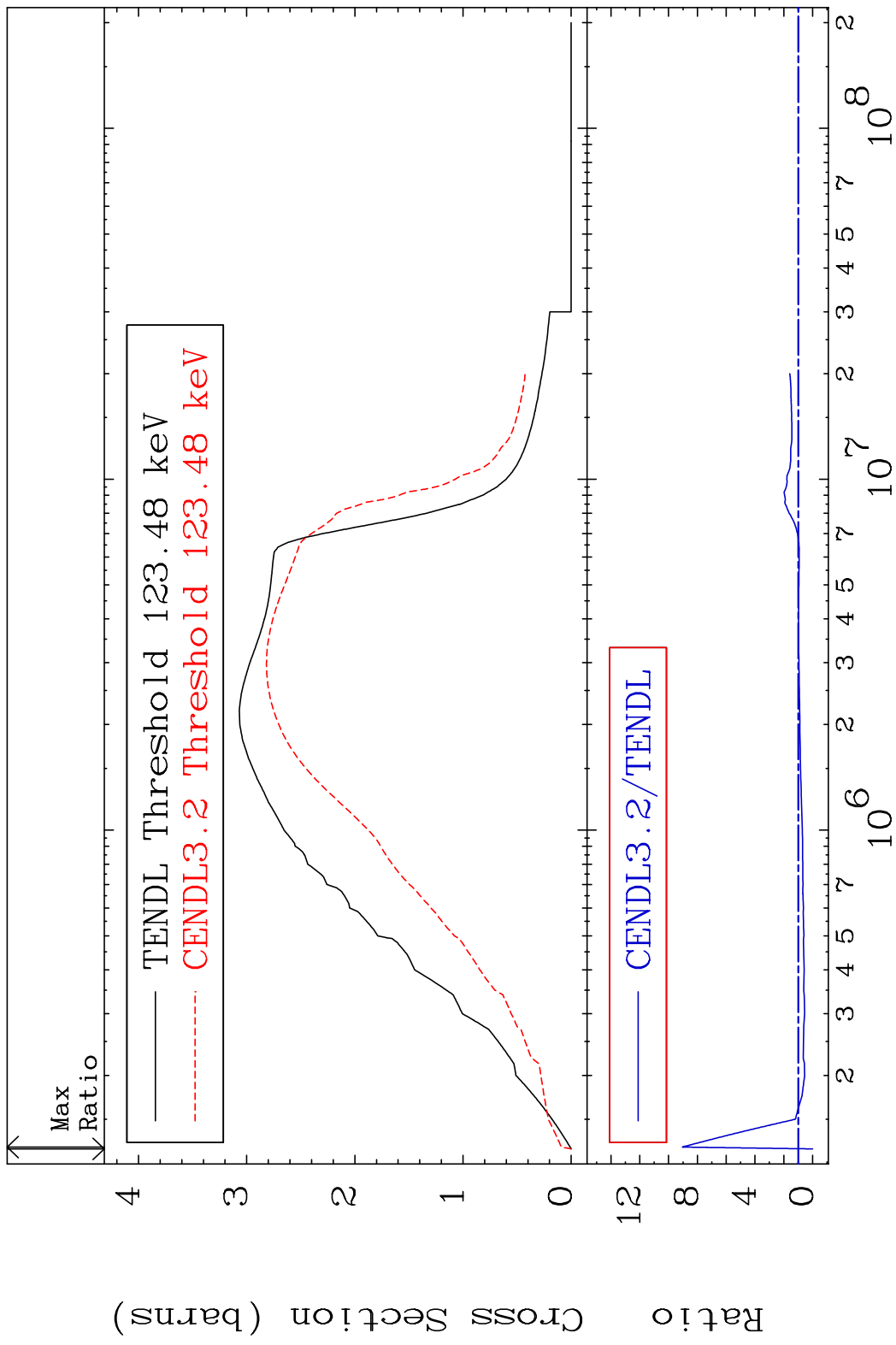
Elastic Cross Section -98.97 To 9999. % 72-Hf-179



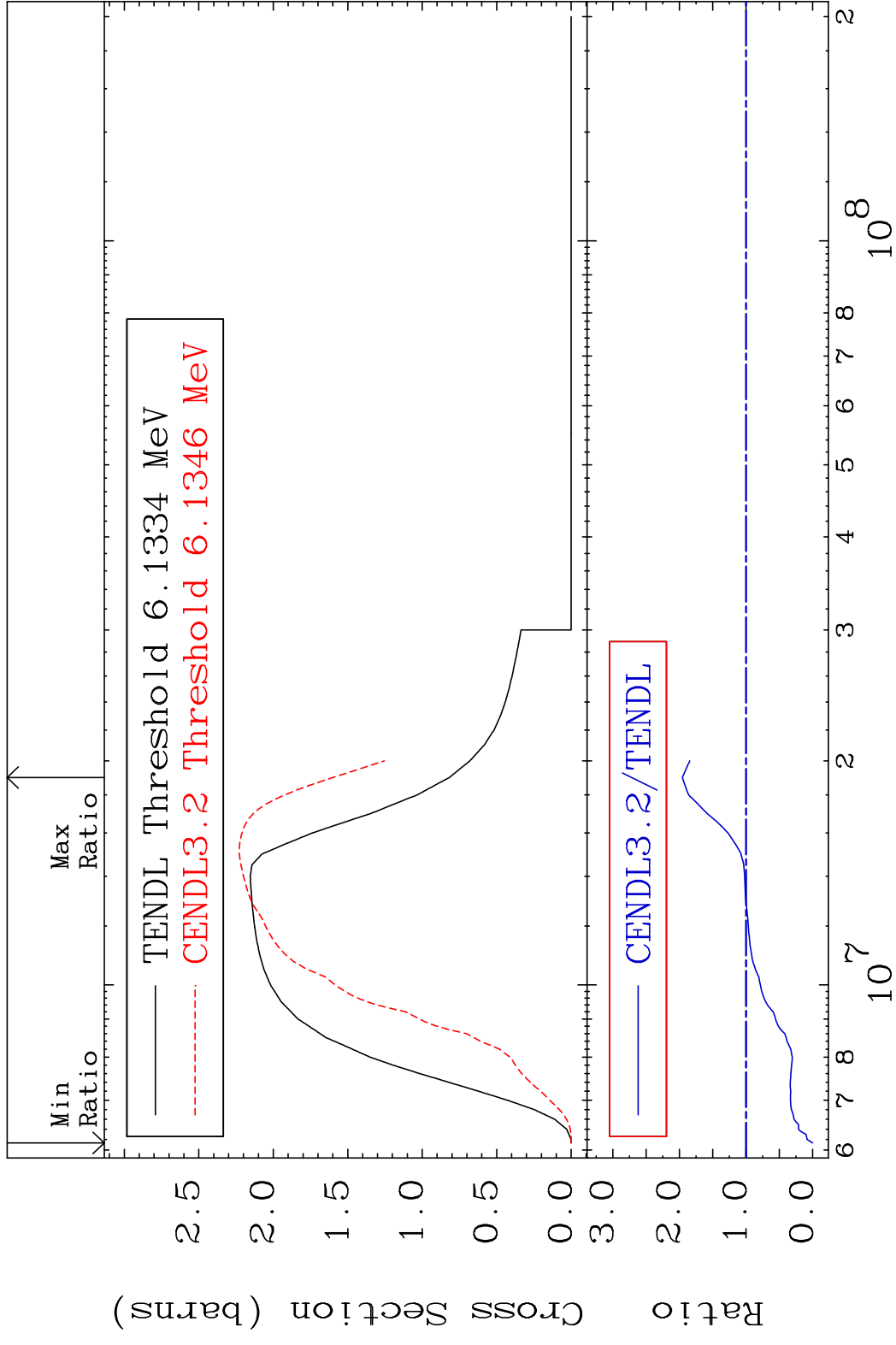
Incident Energy (eV) 72-Hf-179

2

MAT 7240 Inelastic 72-Hf-179  
 Cross Section -100.0 To 804.2 %



MAT 7240 (n,2n) 72-Hf-179  
 Cross Section -100.0 To 95.66 %



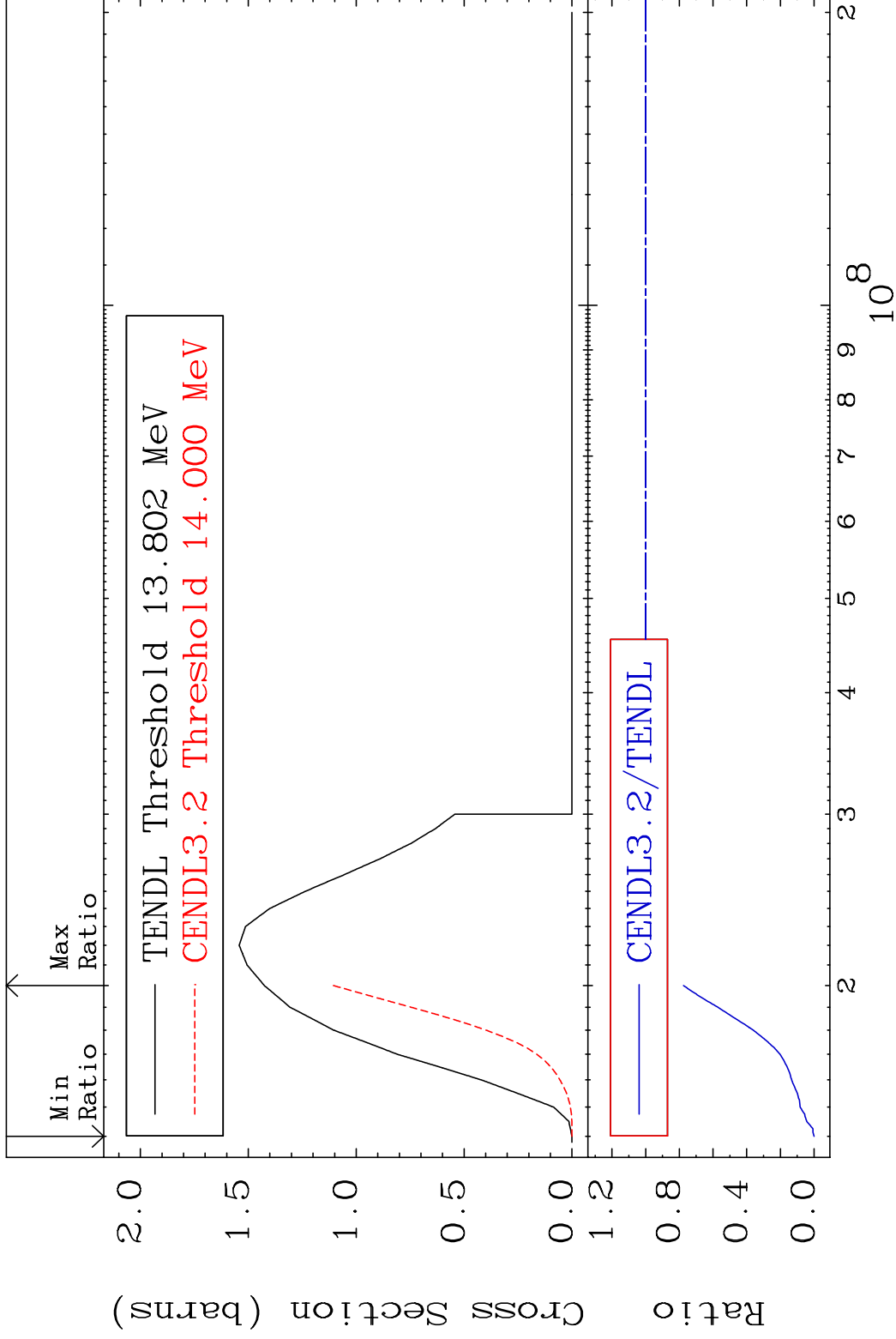
4 Incident Energy (eV) 72-Hf-179

MAT 7240

(n,3n)

72-Hf-179

Cross Section -100.0 To -22.45%



5

Incident Energy (eV)

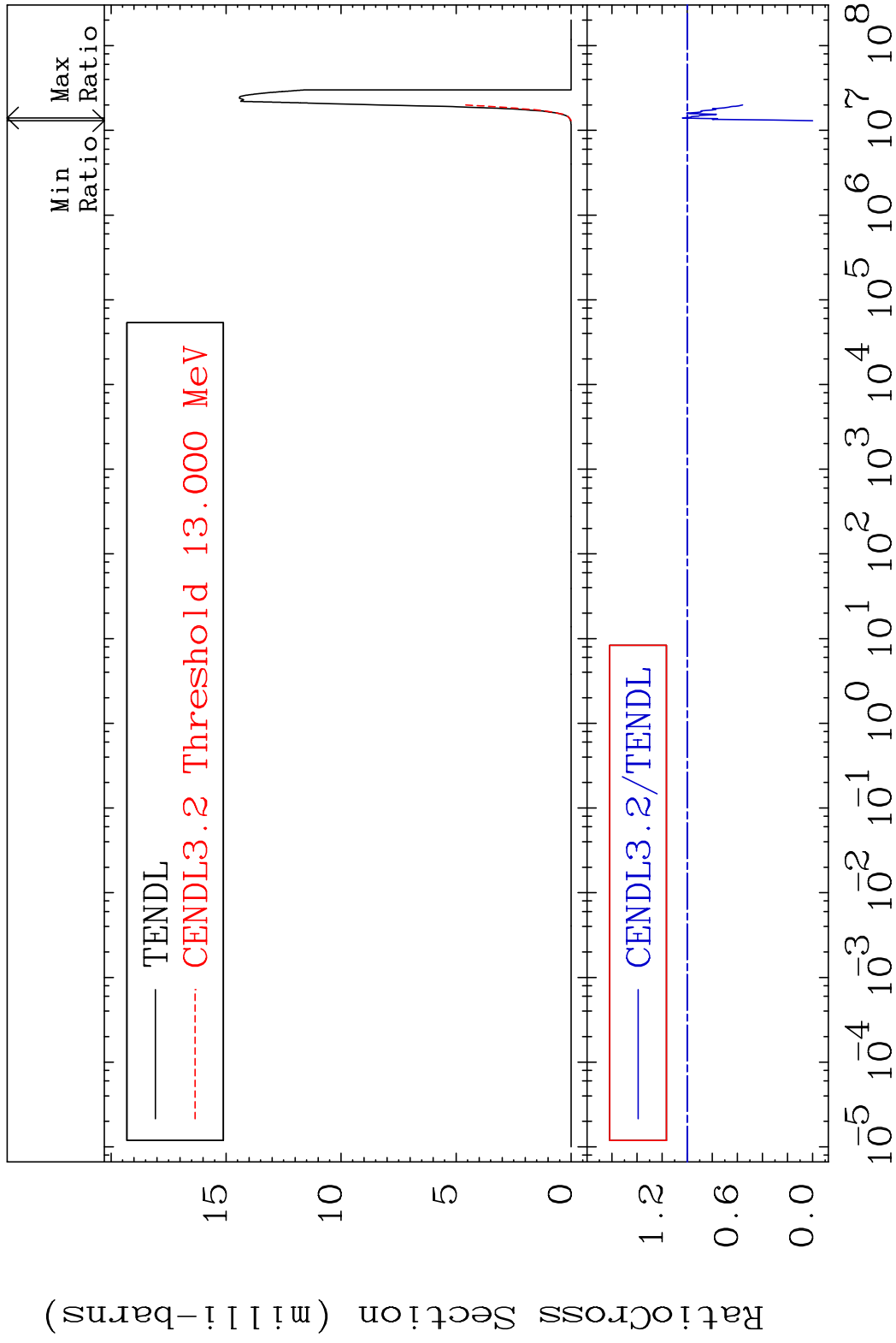
72-Hf-179

MAT 7240

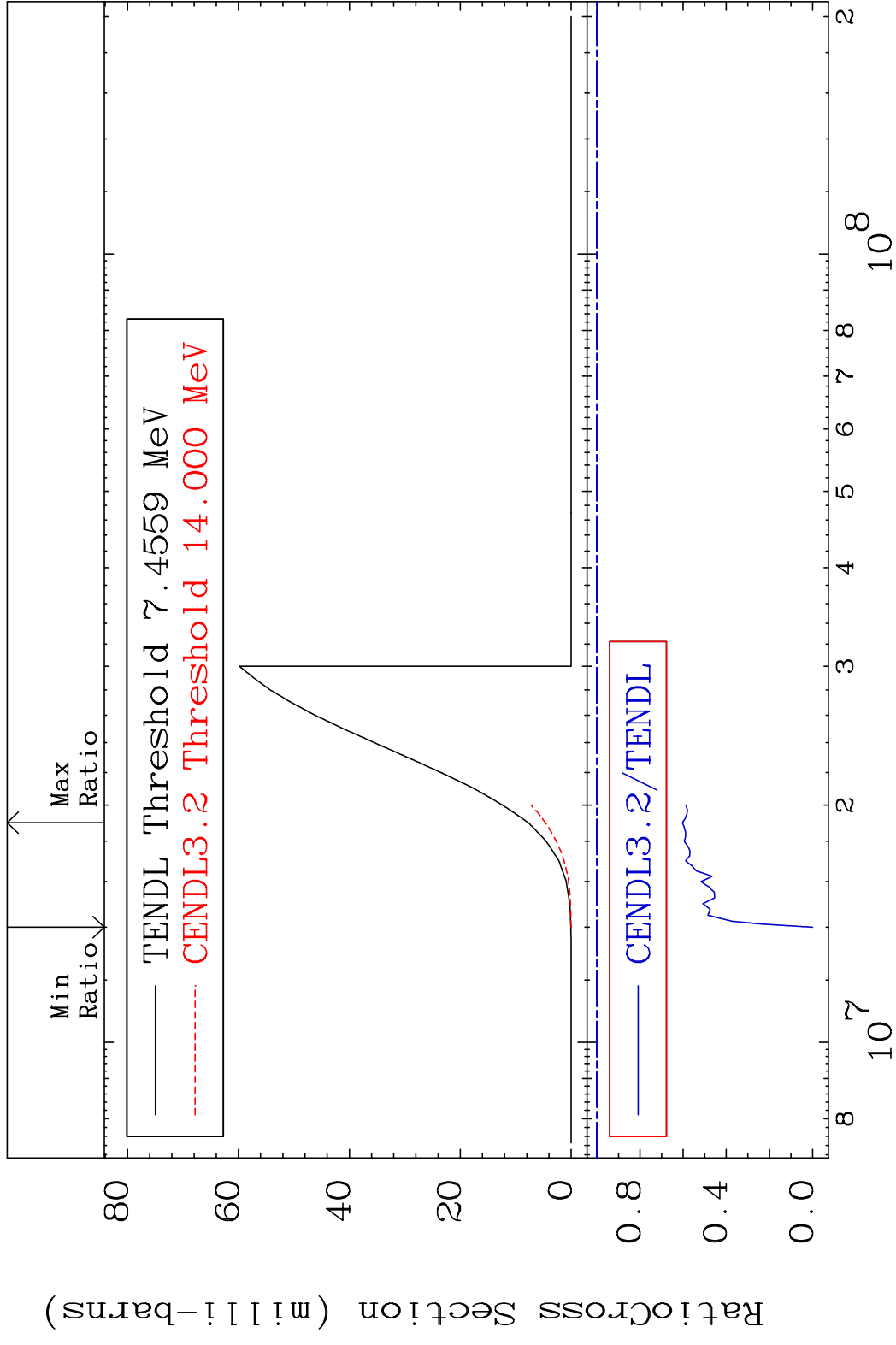
(n, n')  $\alpha$

72-Hf-179

Cross Section -100.0 To 3.782 %



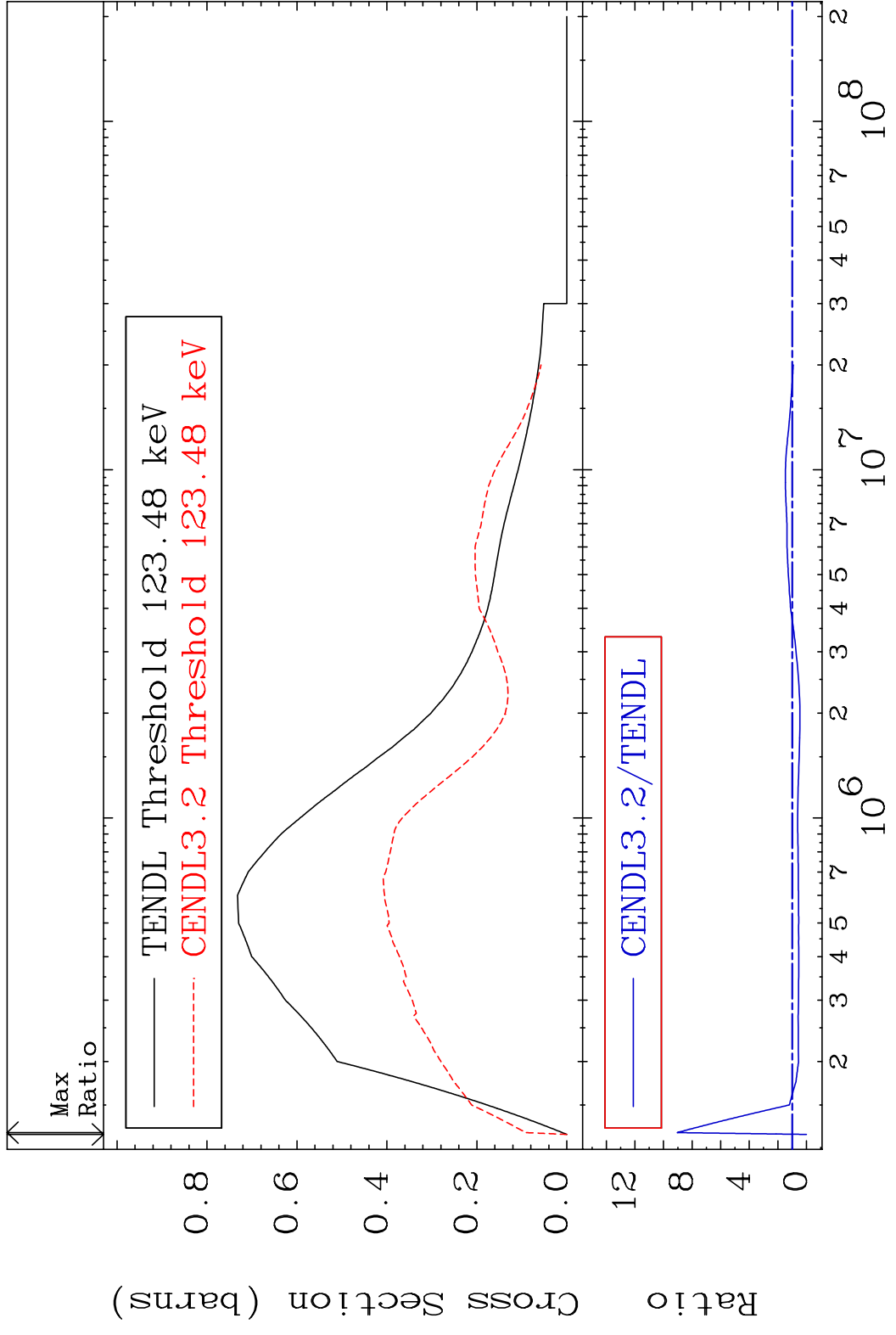
MAT 7240 (n, n') p 72-Hf-179  
 Cross Section -100.0 To -39.63%



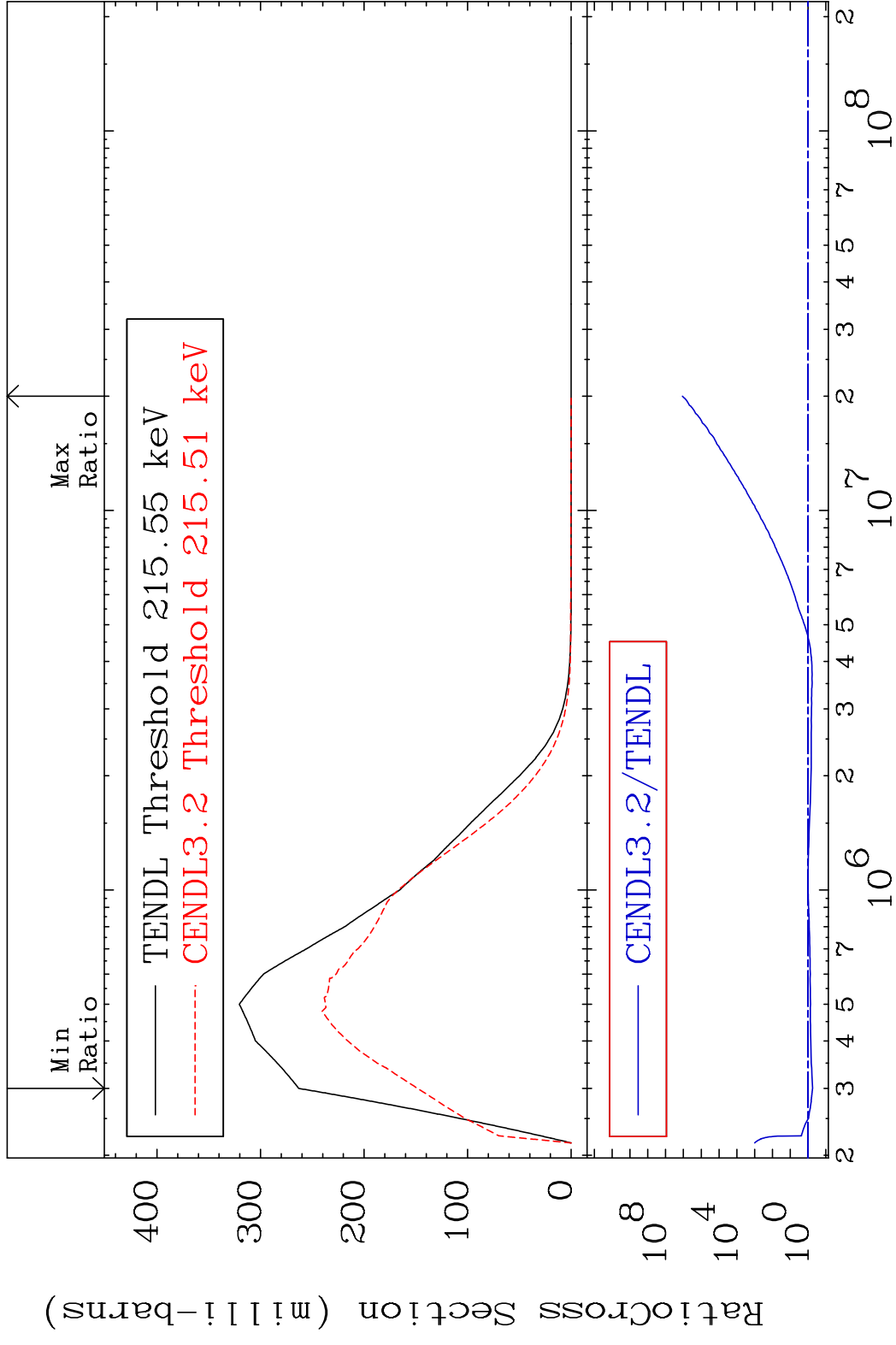
7 Incident Energy (eV) 72-Hf-179



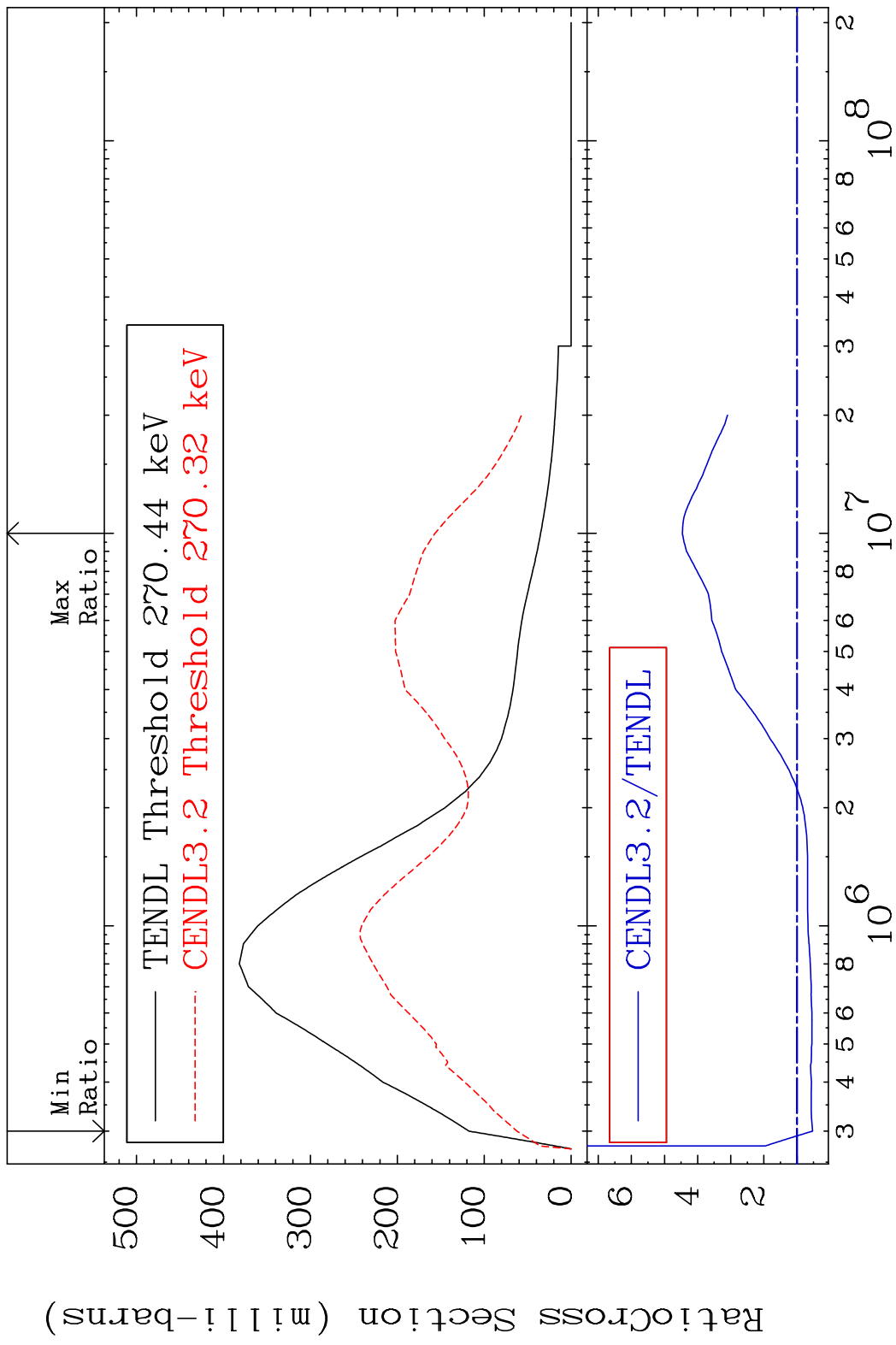
MAT 7240 MT= 51 (n, n') Level 72-Hf-179  
 Cross Section -100.0 To 804.2 %



MAT 7240 MT= 52 (n, n') Level 72-Hf-179  
 Cross Section -43.56 To 9999. %

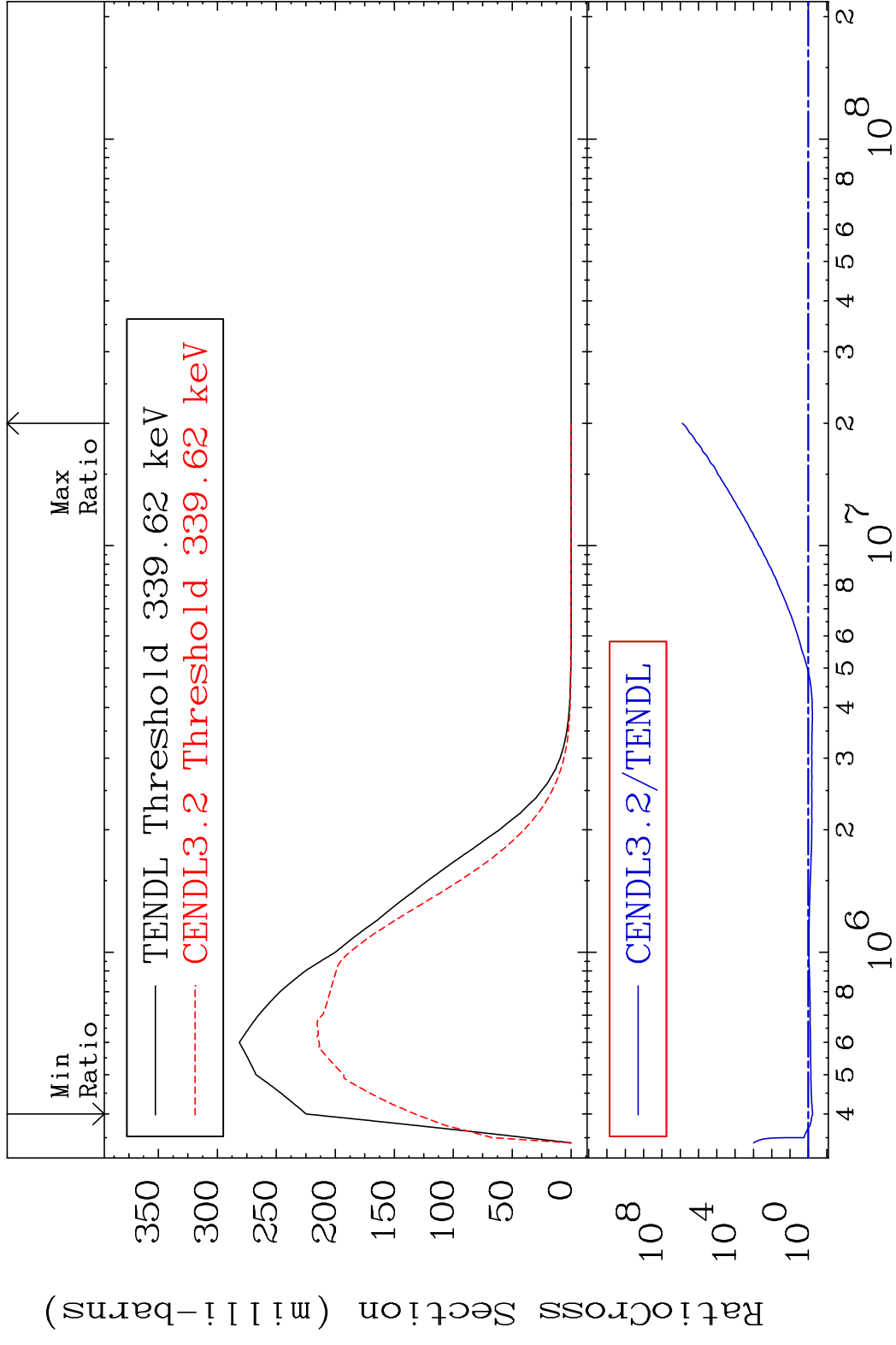


MAT 7240 MT= 53 (n, n') Level 72-Hf-179  
 Cross Section -46.94 To 346.1 %

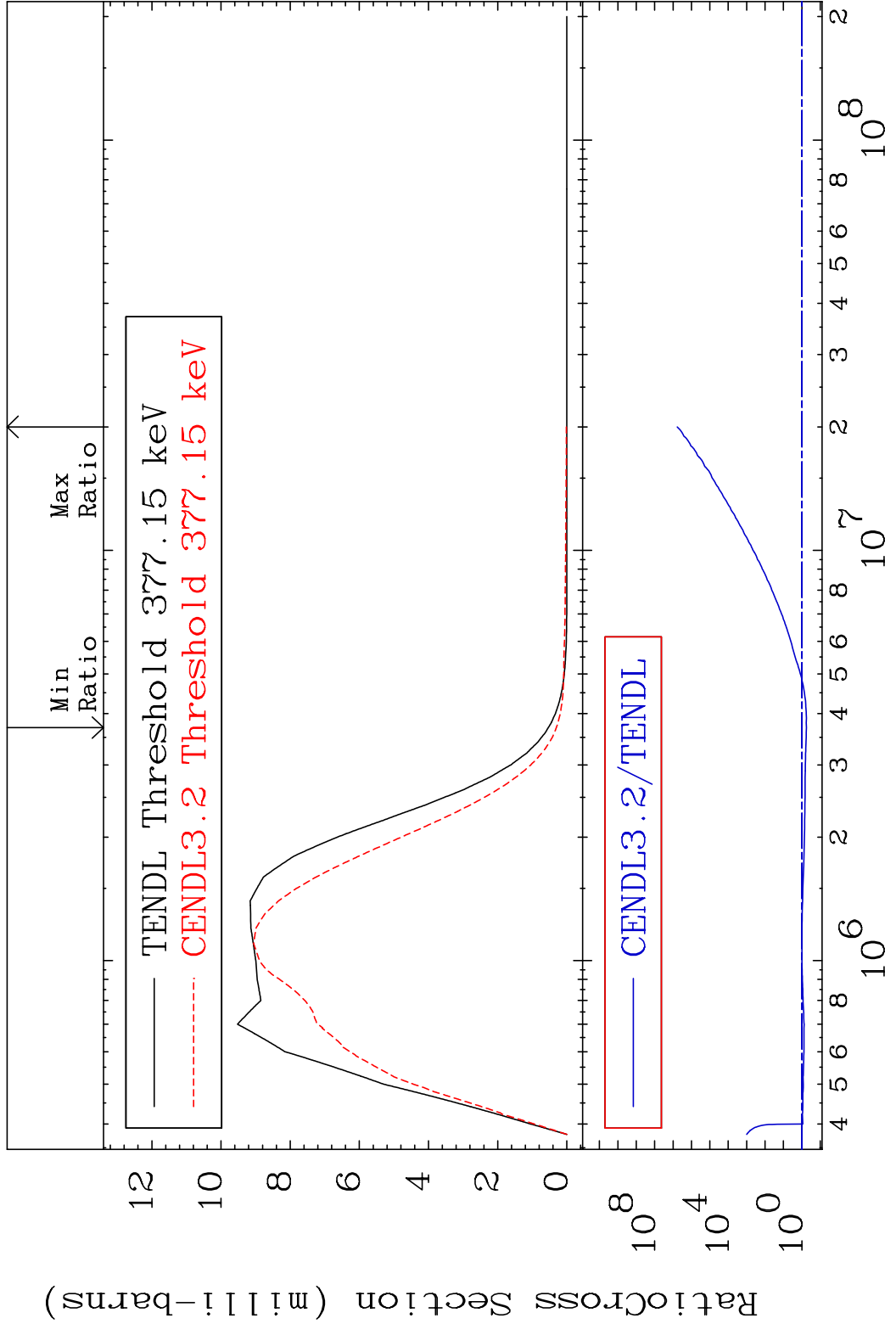


10 Incident Energy (eV) 72-Hf-179

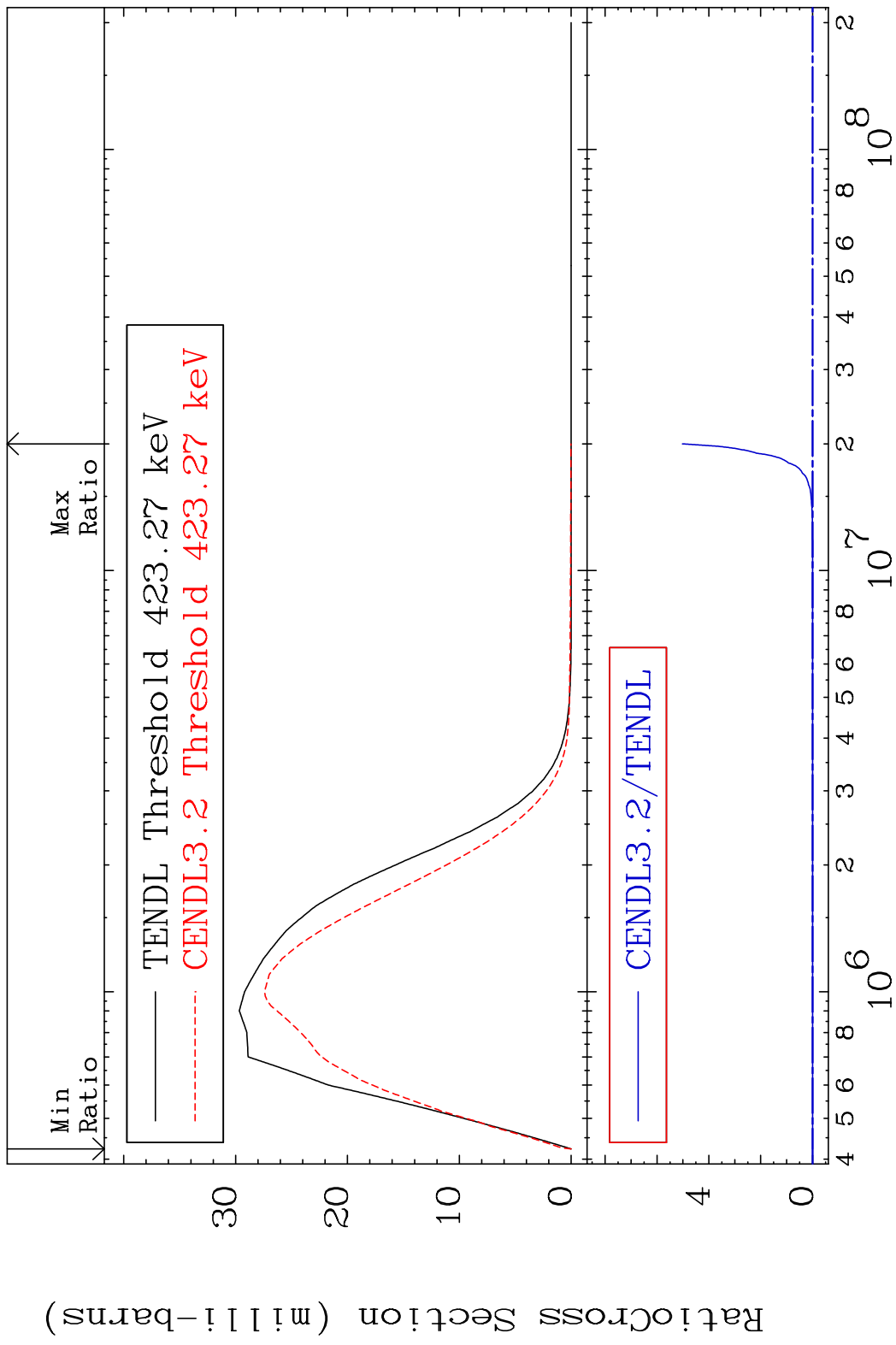
MAT 7240 MT= 54 (n, n') Level 72-Hf-179  
 Cross Section -41.05 To 9999. %



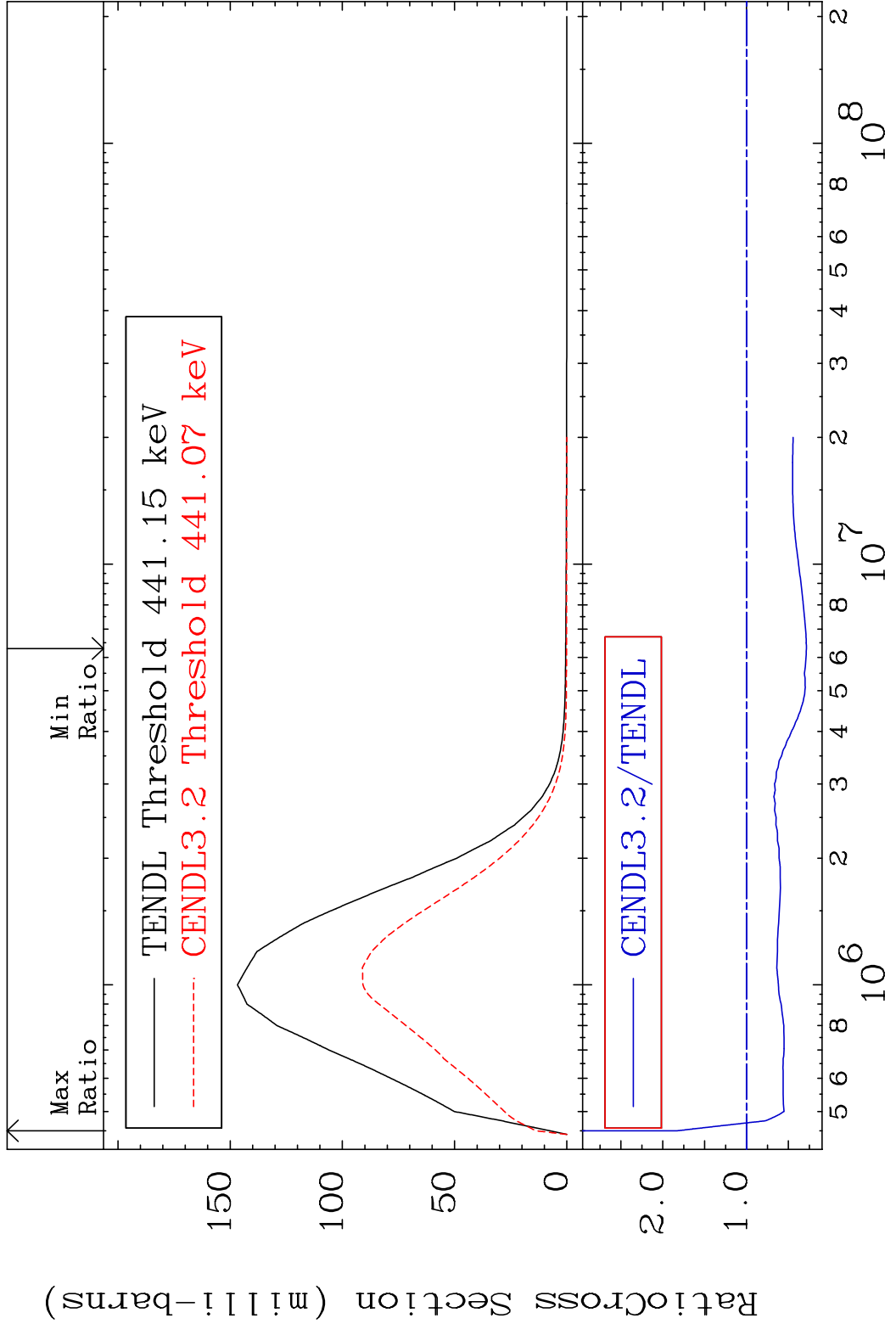
MAT 7240 MT= 55 (n,n') Level 72-Hf-179  
 Cross Section -43.54 To 9999. %



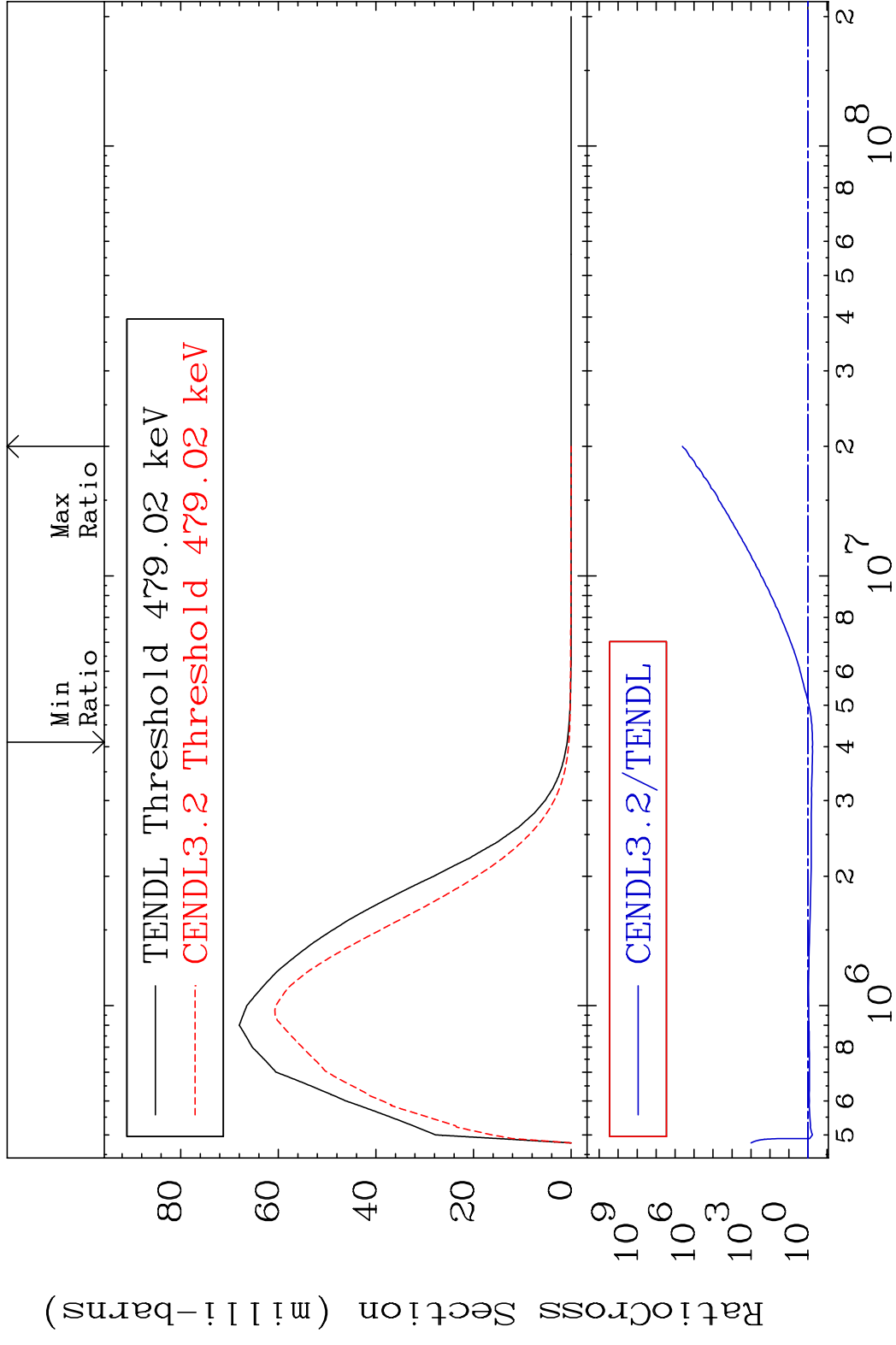
MAT 7240 MT= 56 (n,n') Level 72-Hf-179  
 Cross Section -100.0 To 9999. %



MAT 7240 MT= 57 (n,n') Level 72-Hf-179  
 Cross Section -71.44 To 82.84 %

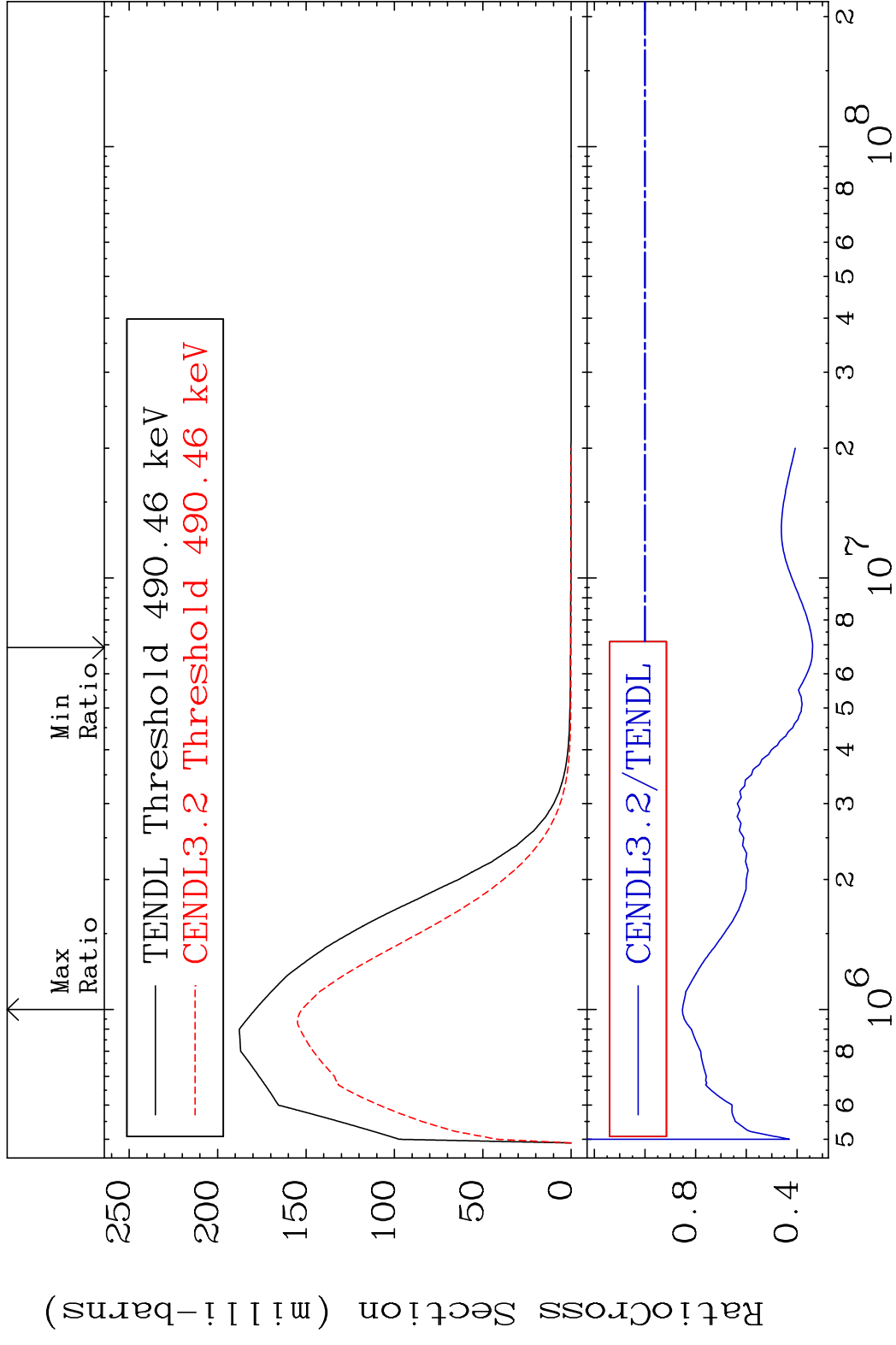


MAT 7240 MT= 58 (n, n') Level 72-Hf-179  
 Cross Section -43.25 To 9999. %

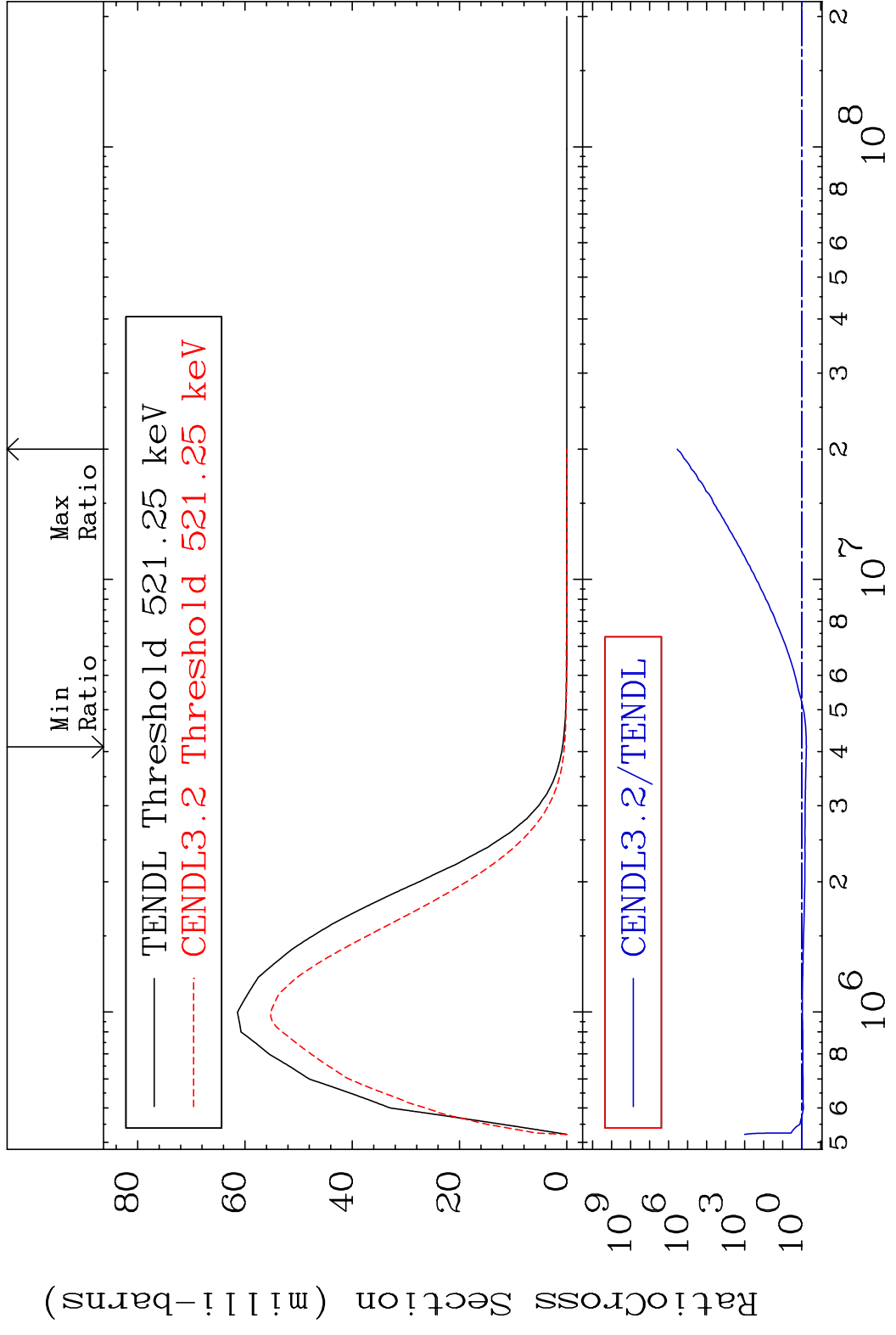




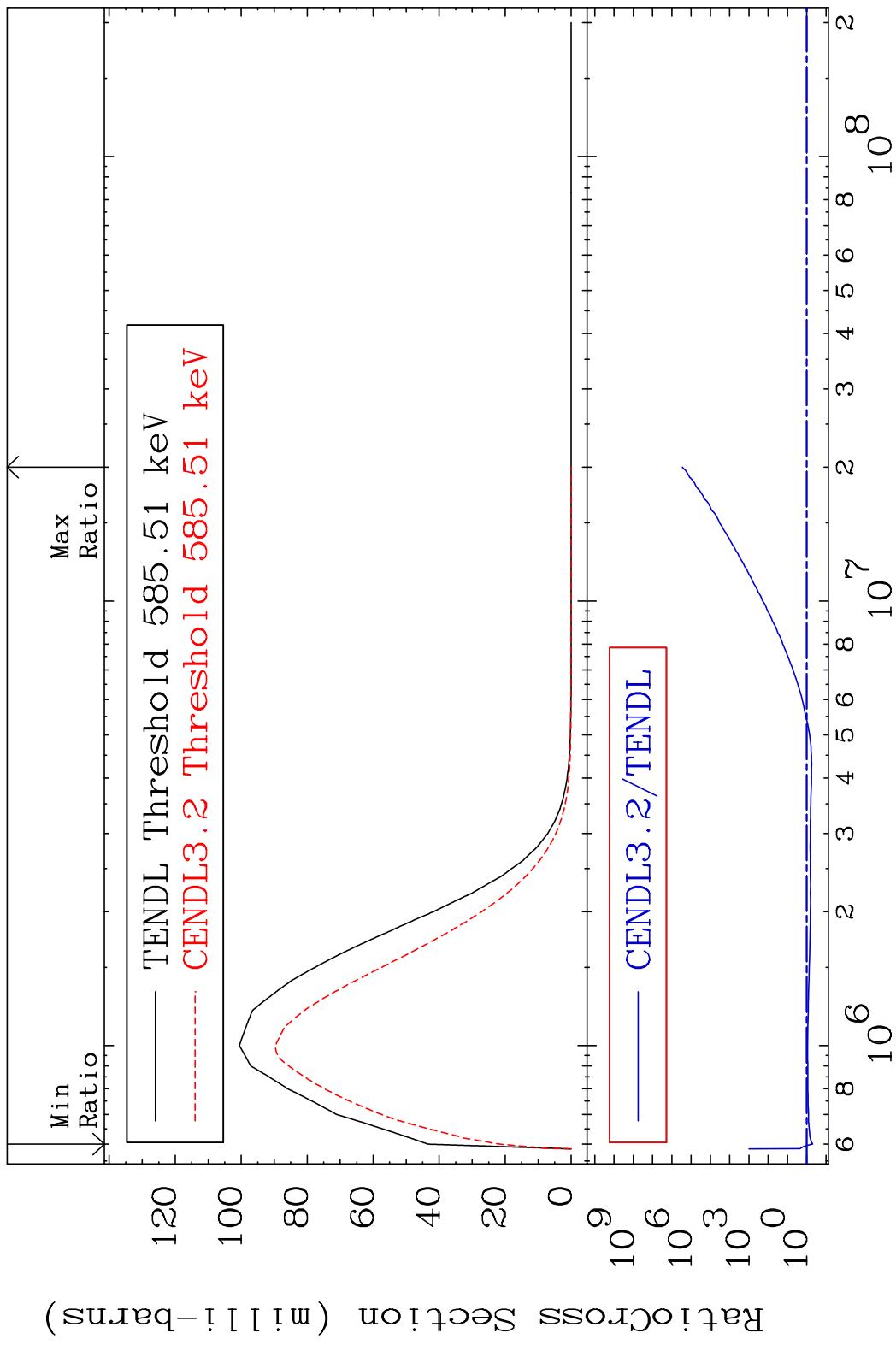
MAT 7240 MT= 59 (n, n') Level 72-Hf-179  
 Cross Section -66.15 To -14.72%



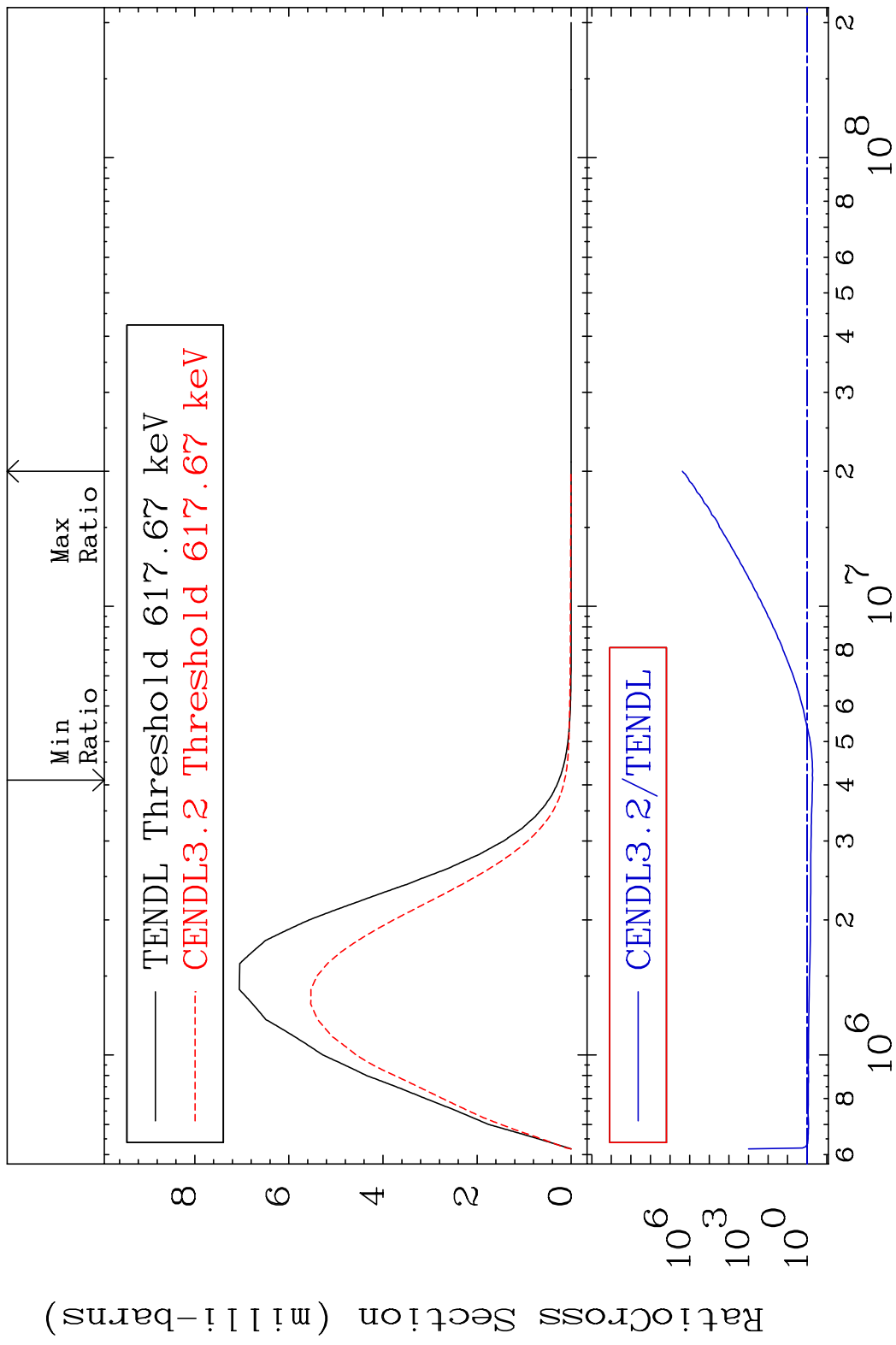
MAT 7240 MT= 60 (n, n') Level 72-Hf-179  
 Cross Section -43.97 To 9999. %



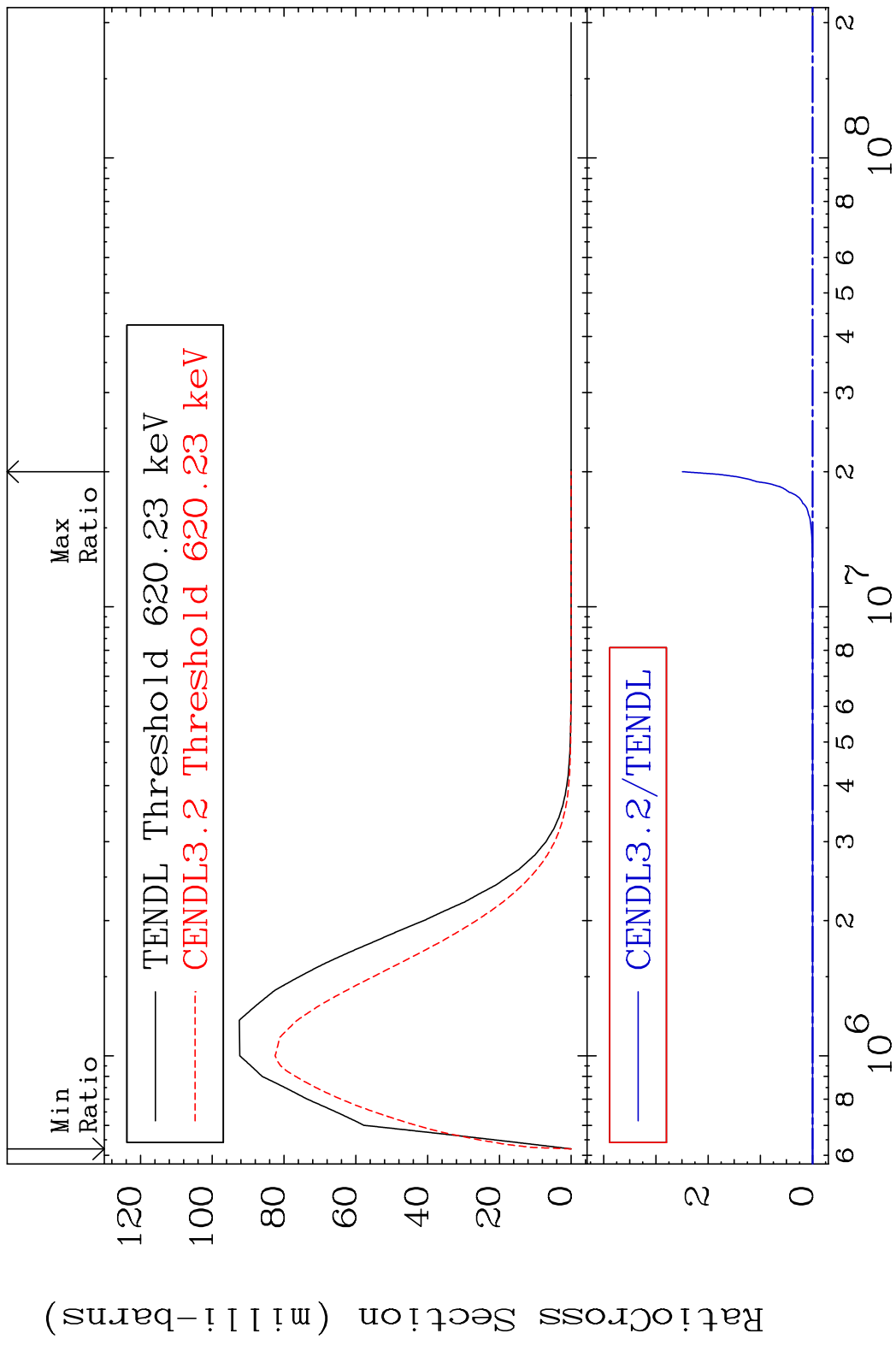
MAT 7240 MT= 61 (n, n') Level 72-Hf-179  
 Cross Section -50.12 To 9999. %



MAT 7240 MT= 62 (n, n') Level 72-Hf-179  
 Cross Section -46.69 To 9999. %

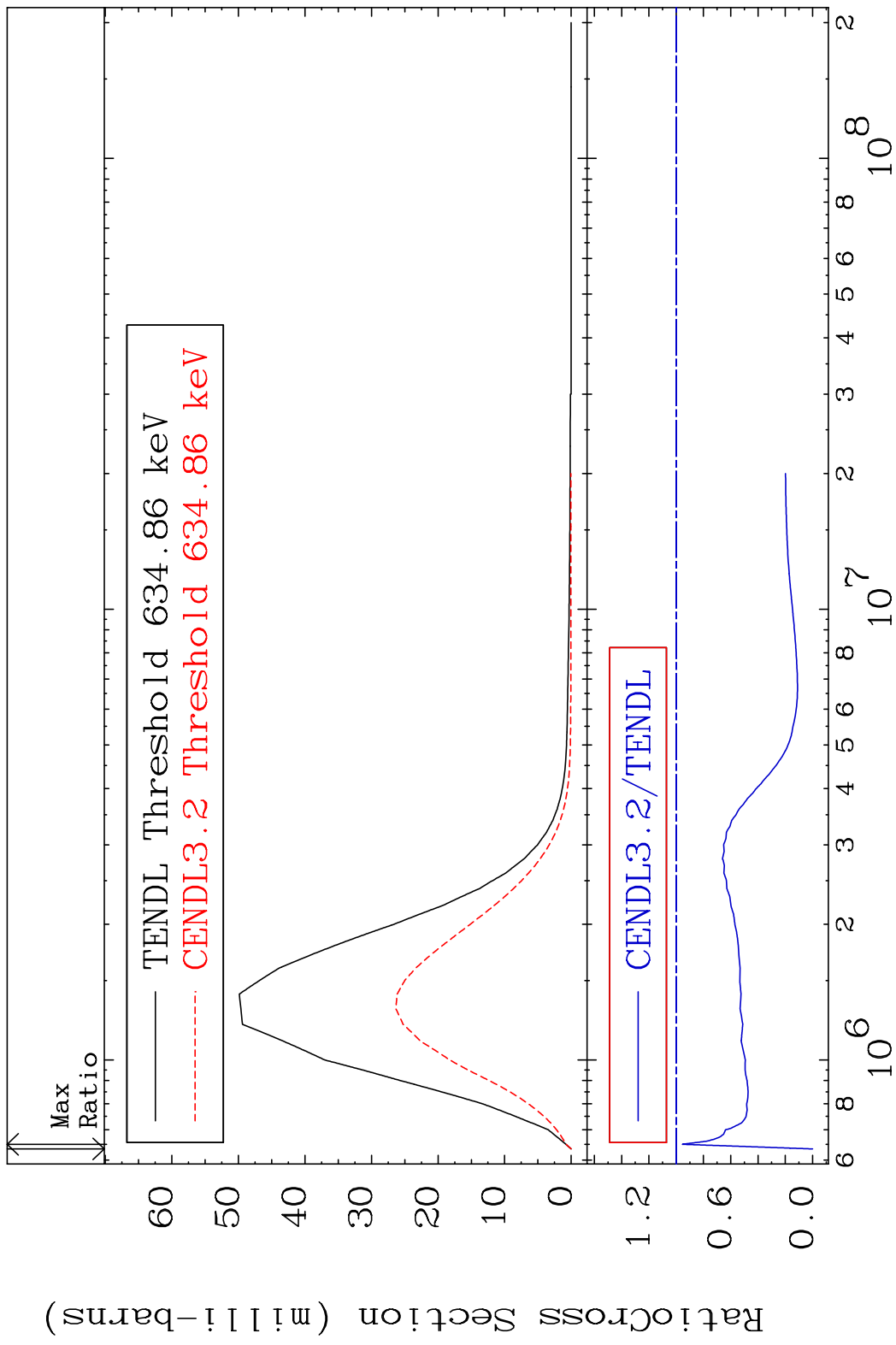


MAT 7240 MT= 63 (n, n') Level 72-Hf-179  
 Cross Section -100.0 To 9999. %

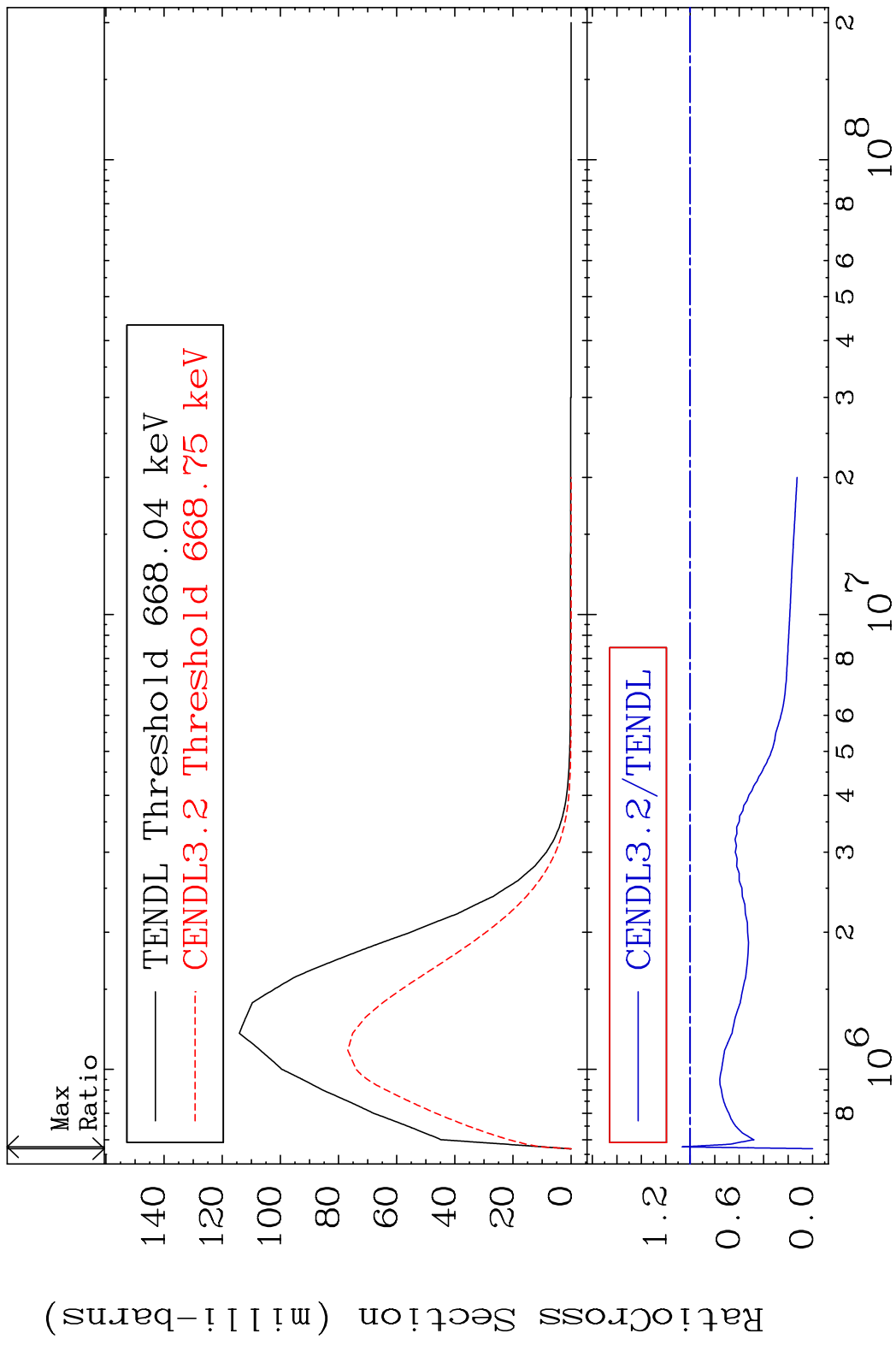


20 Incident Energy (eV) 72-Hf-179

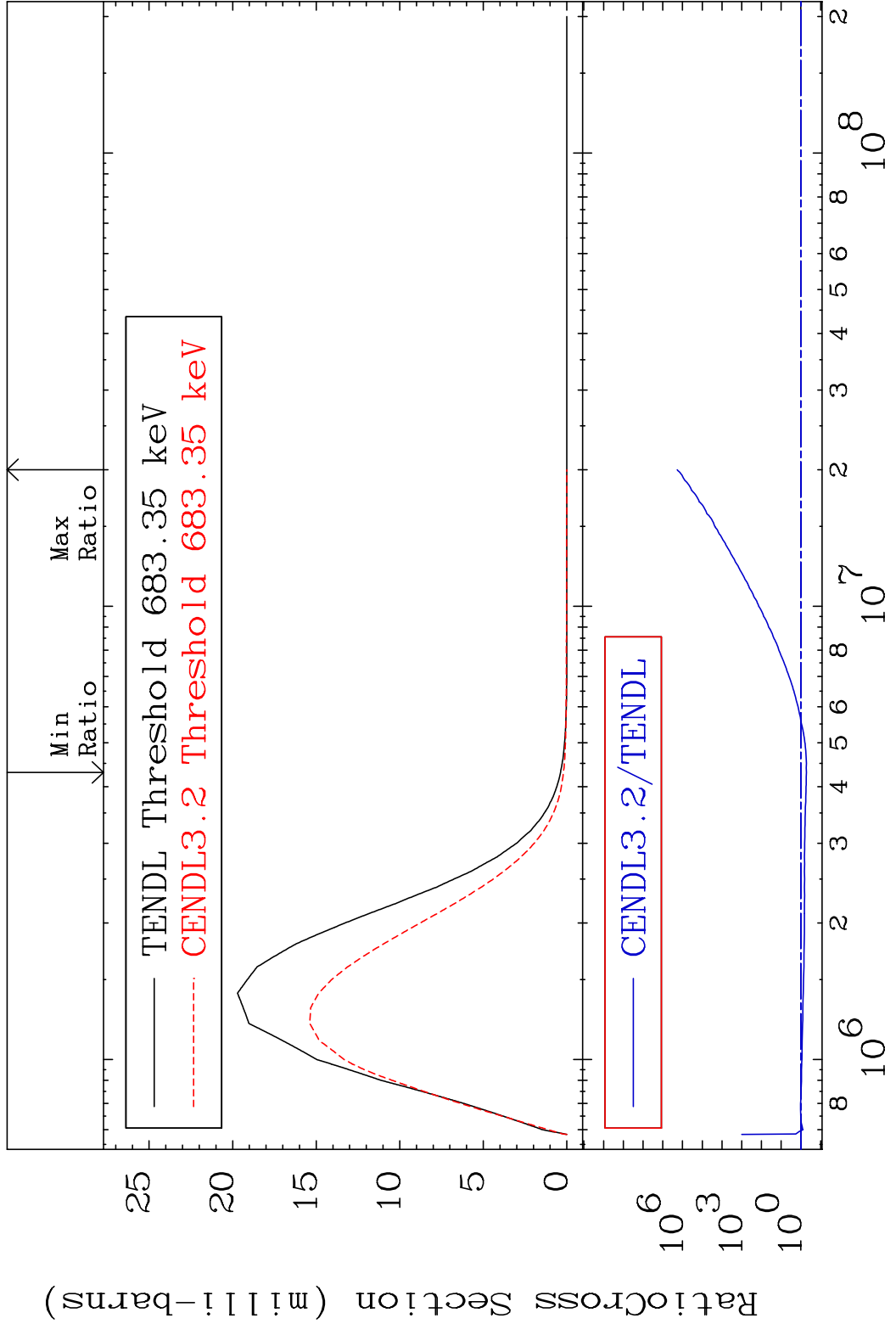
MAT 7240 MT= 64 (n,n') Level 72-Hf-179  
 Cross Section -100.0 To -4.532%



MAT 7240 MT= 65 (n,n') Level 72-Hf-179  
 Cross Section -100.0 To 6.439 %

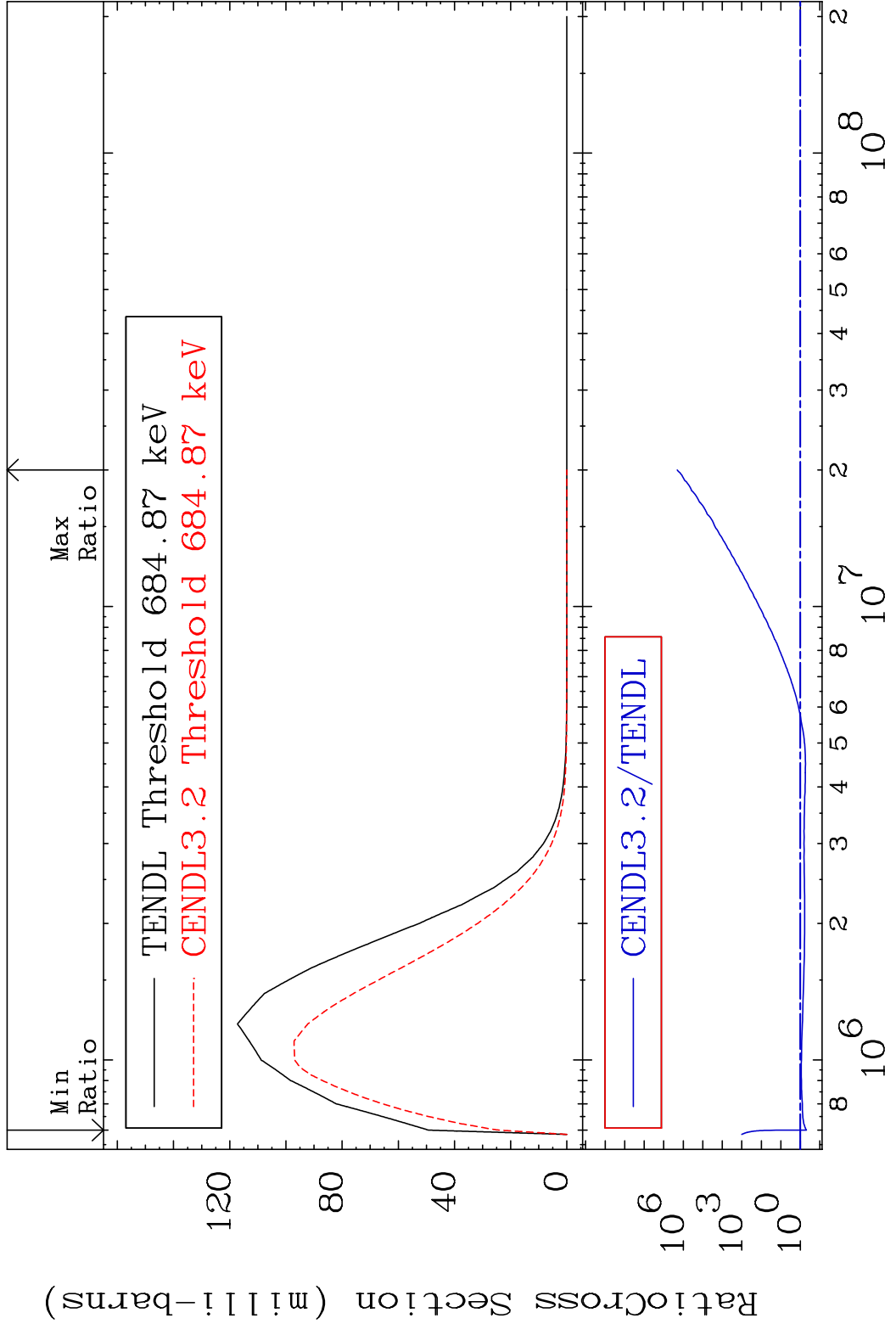


MAT 7240 MT= 66 (n, n') Level 72-Hf-179  
 Cross Section -47.44 To 9999. %

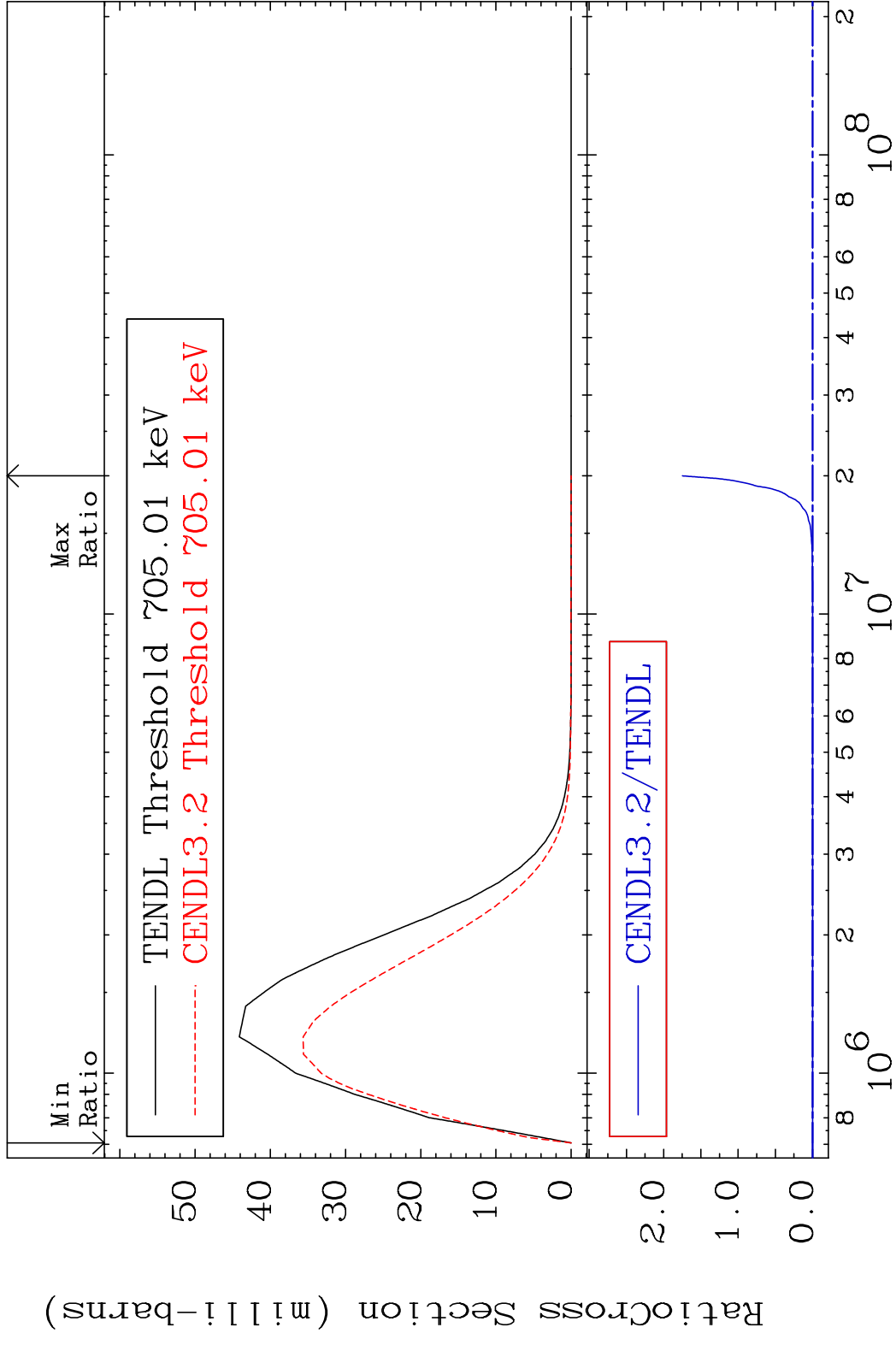




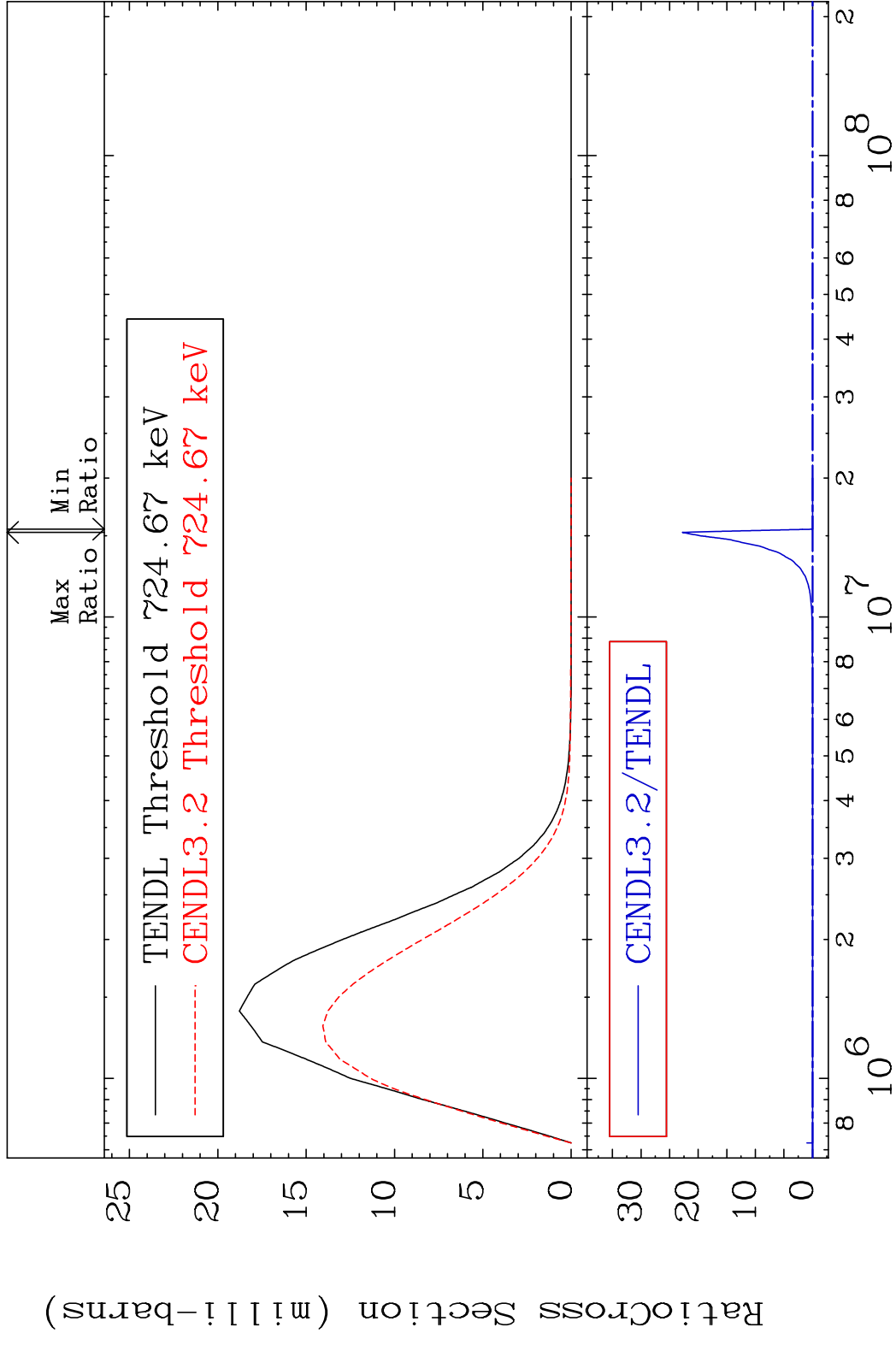
MAT 7240 MT= 67 (n, n') Level 72-Hf-179  
 Cross Section -50.82 To 9999. %



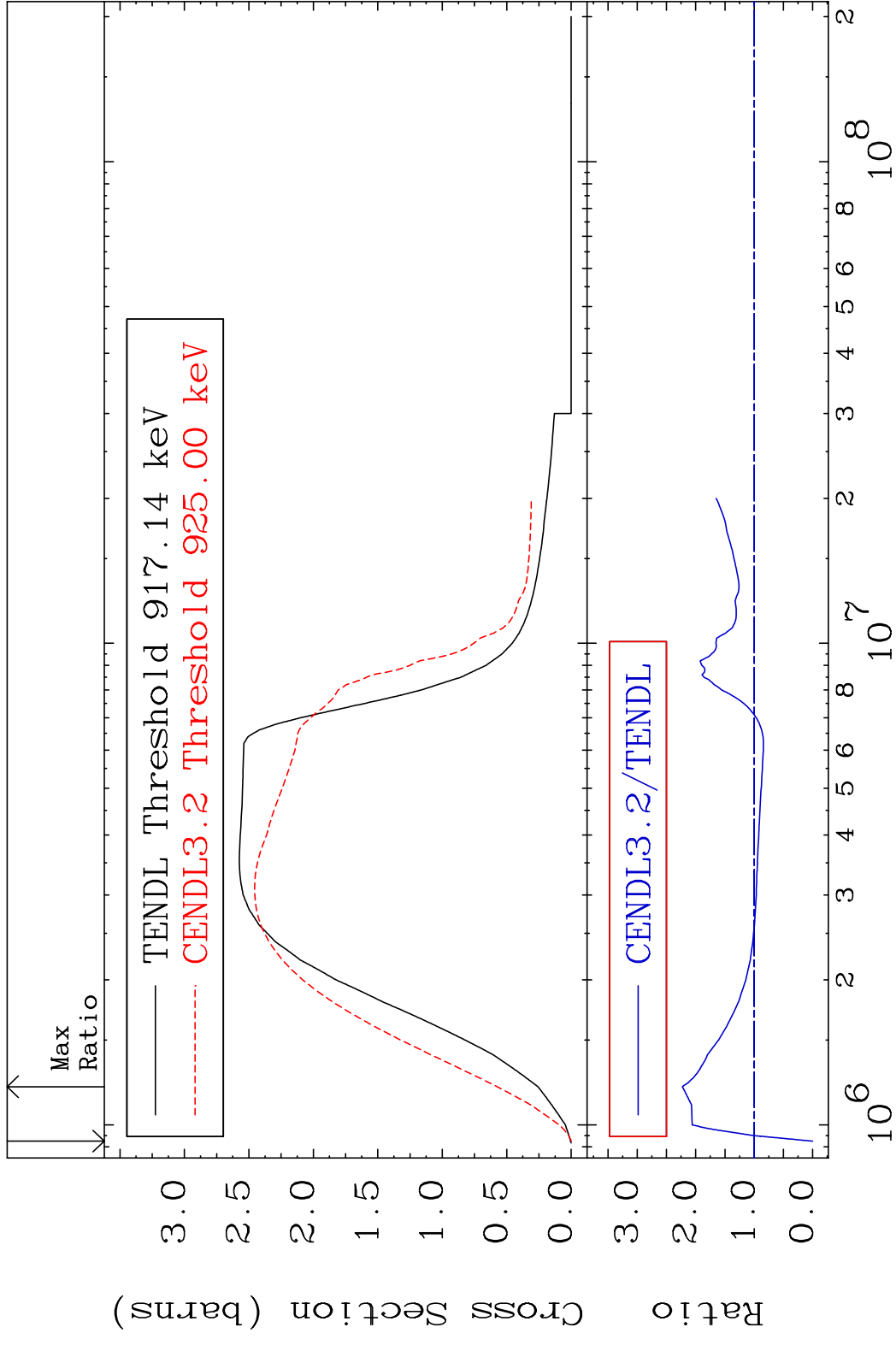
MAT 7240 MT= 68 (n, n') Level 72-Hf-179  
 Cross Section -100.0 To 9999. %



MAT 7240 MT= 69 (n, n') Level 72-Hf-179  
 Cross Section -100.0 To 9999. %



MAT 7240 (n, n') Continuum 72-Hf-179  
 Cross Section -100.0 To 122.9 %

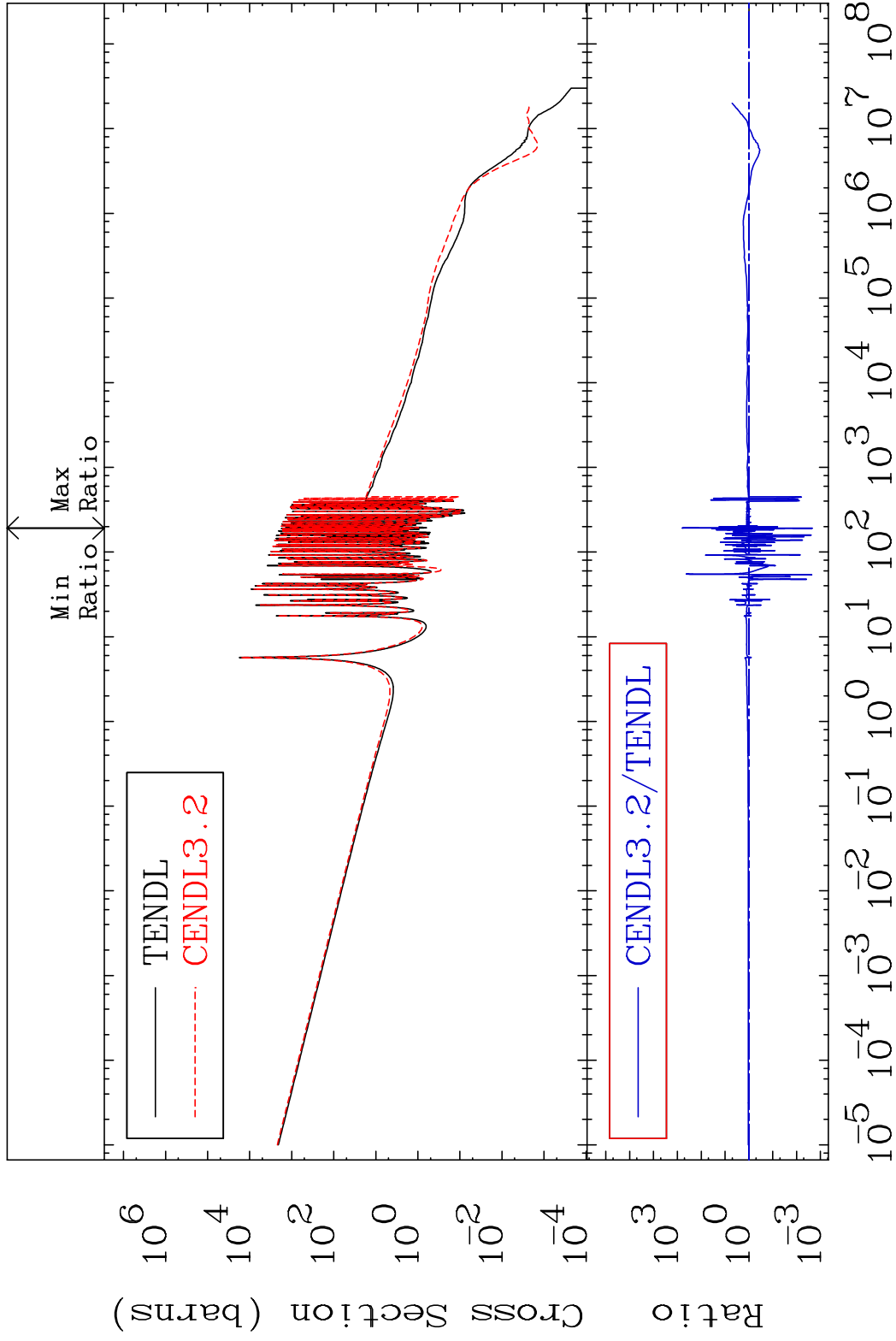


MAT 7240

(n,  $\gamma$ )

72-Hf-179

Cross Section -99.79 To 9999. %

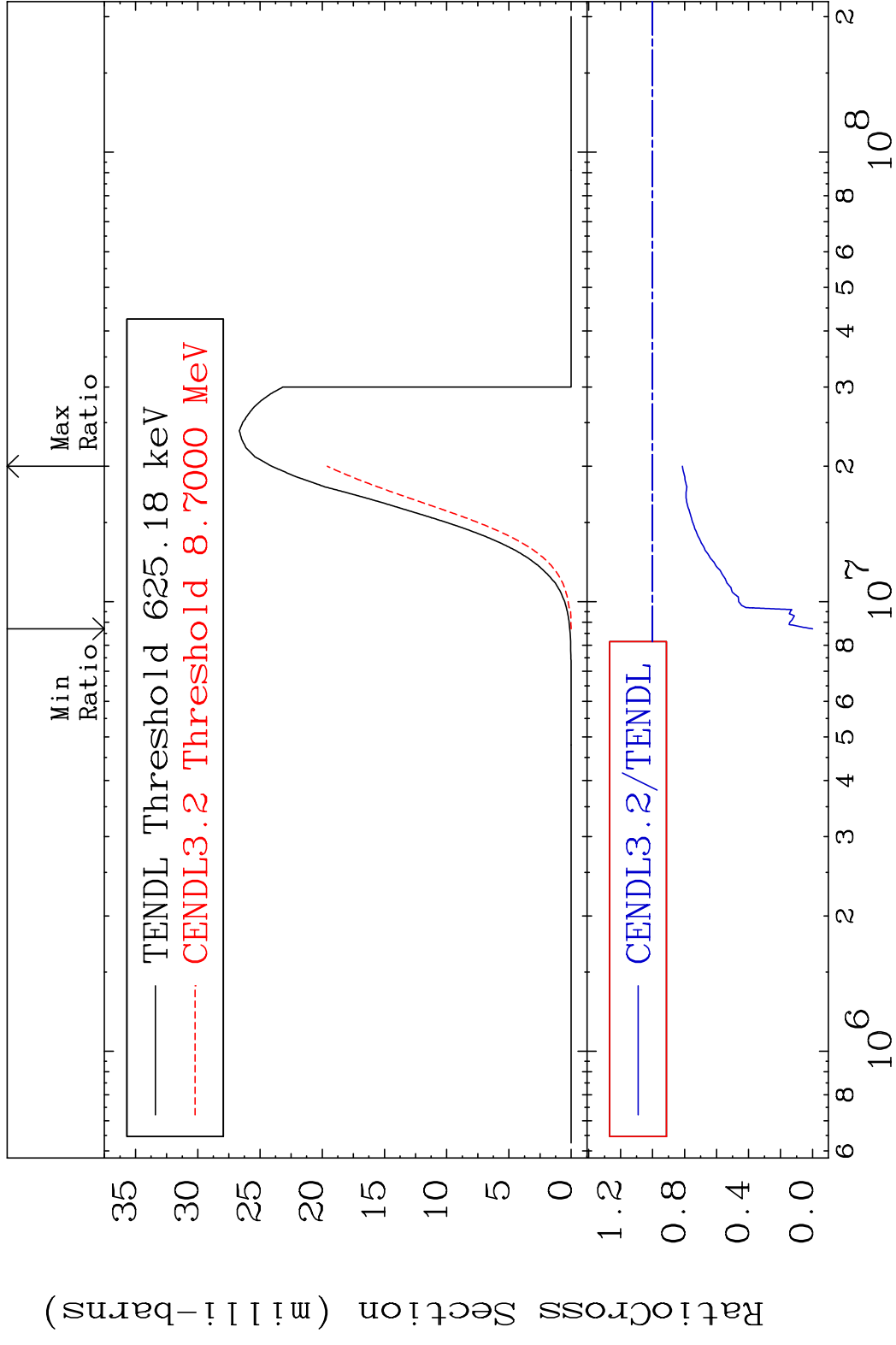


28

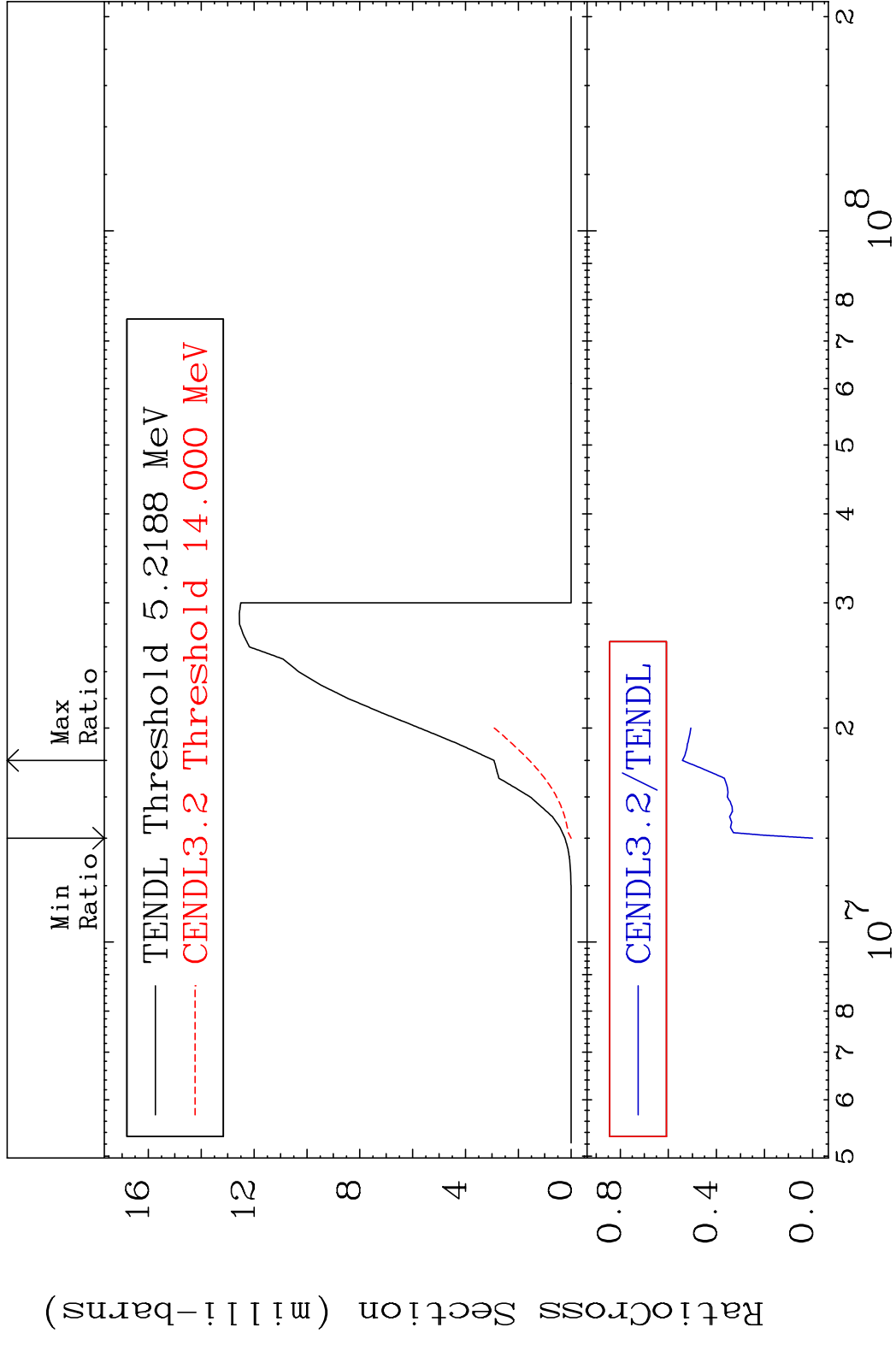
Incident Energy (eV)

72-Hf-179

MAT 7240 (n,p) 72-Hf-179  
 Cross Section -100.0 To -18.61%



MAT 7240 (n,d) 72-Hf-179  
 Cross Section -100.0 To -45.82%

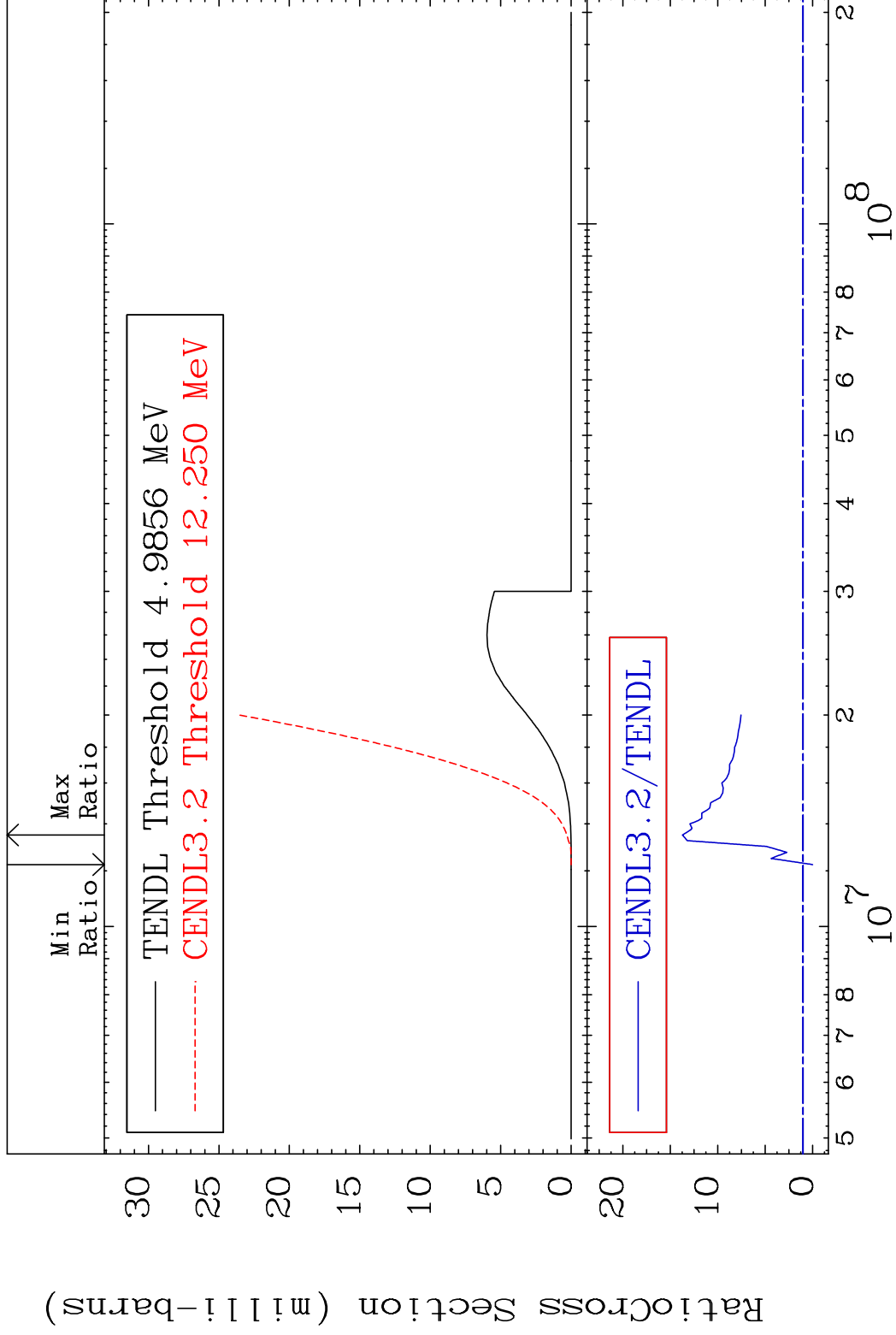


MAT 7240

(n, t)

72-Hf-179

Cross Section -100.0 To 1272. %



31

Incident Energy (eV)

72-Hf-179

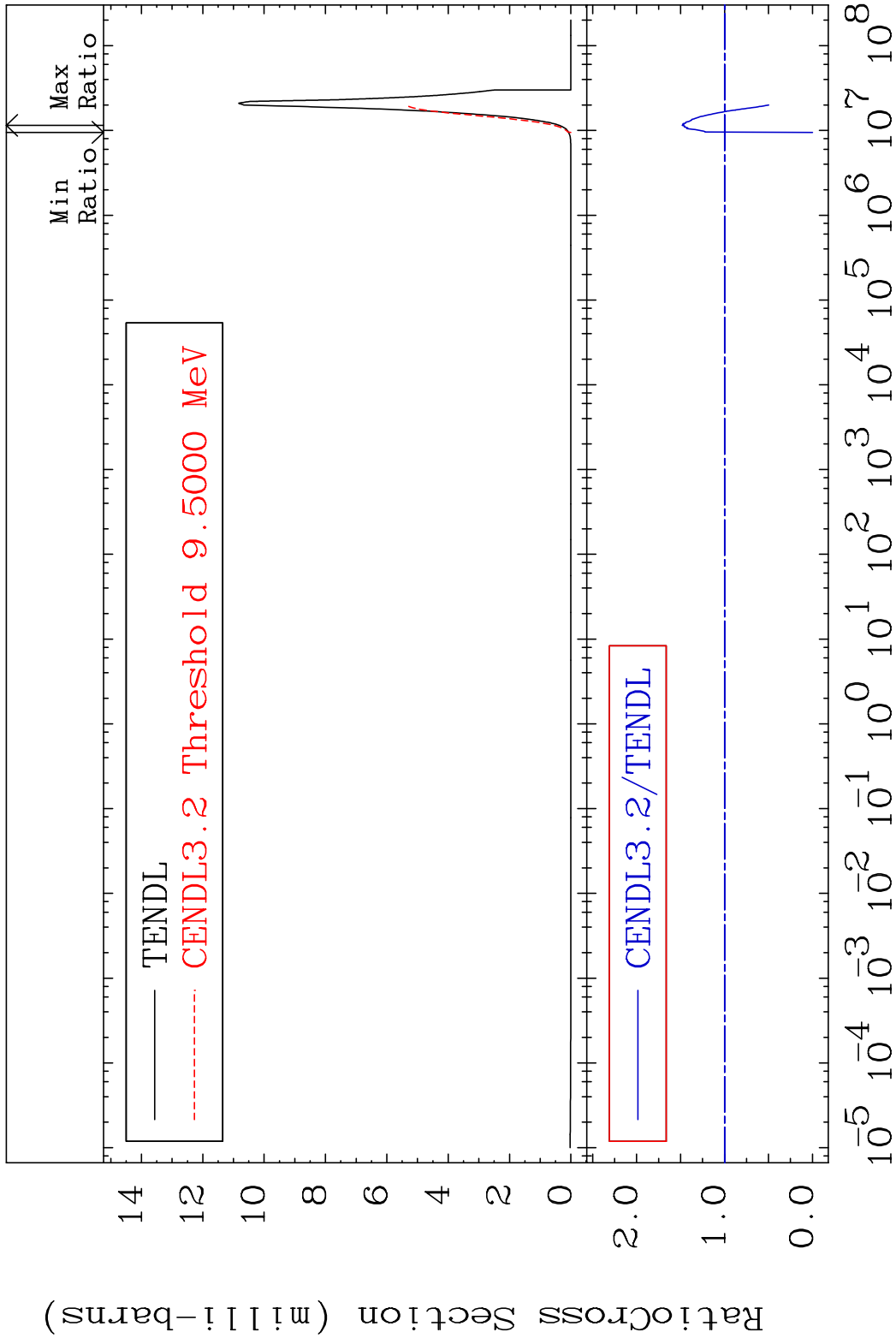


MAT 7240

(n,  $\alpha$ )

72-Hf-179

Cross Section -100.0 To 48.24 %



32

Incident Energy (eV)

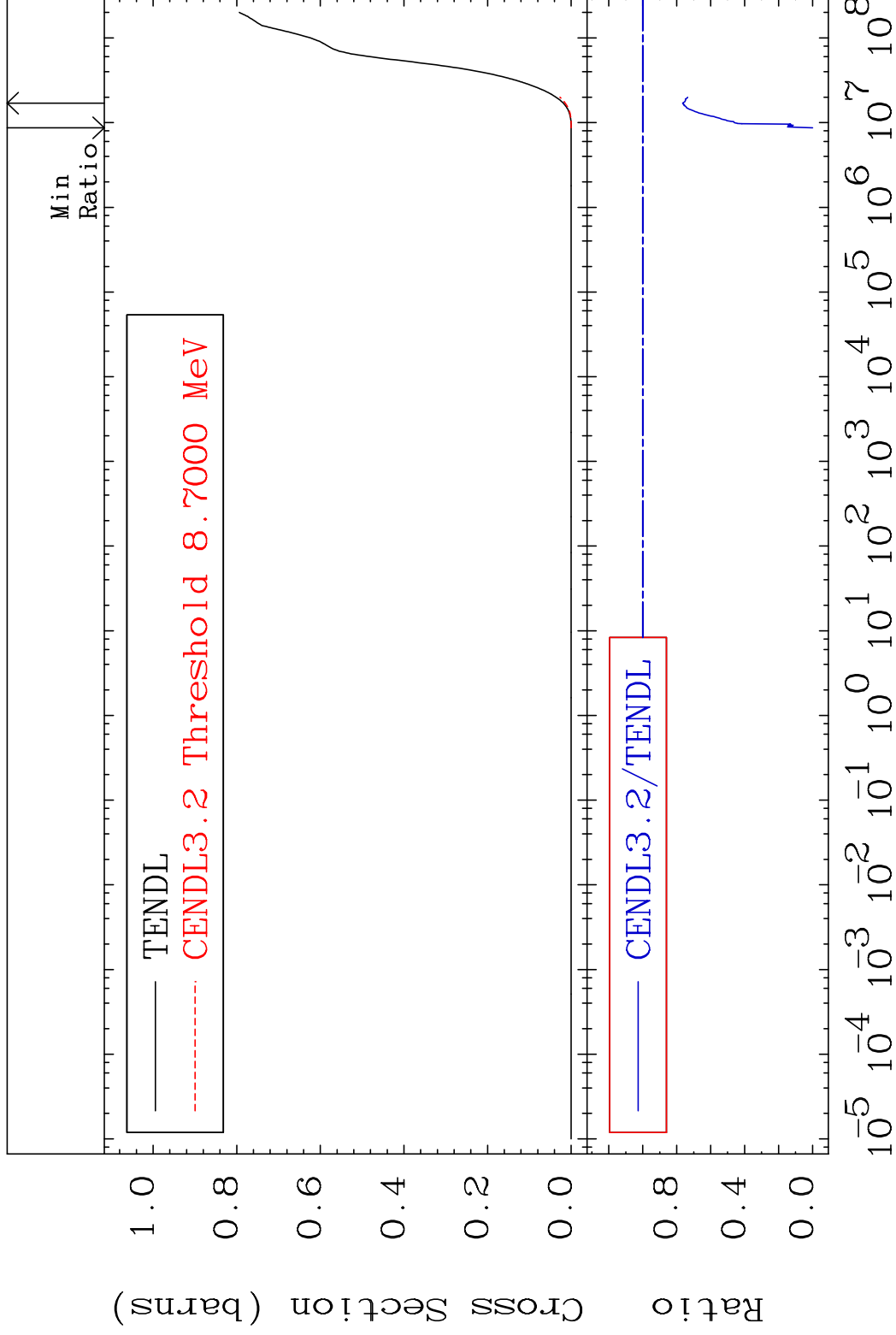
72-Hf-179

MAT 7240

Hydrogen Production

72-Hf-179

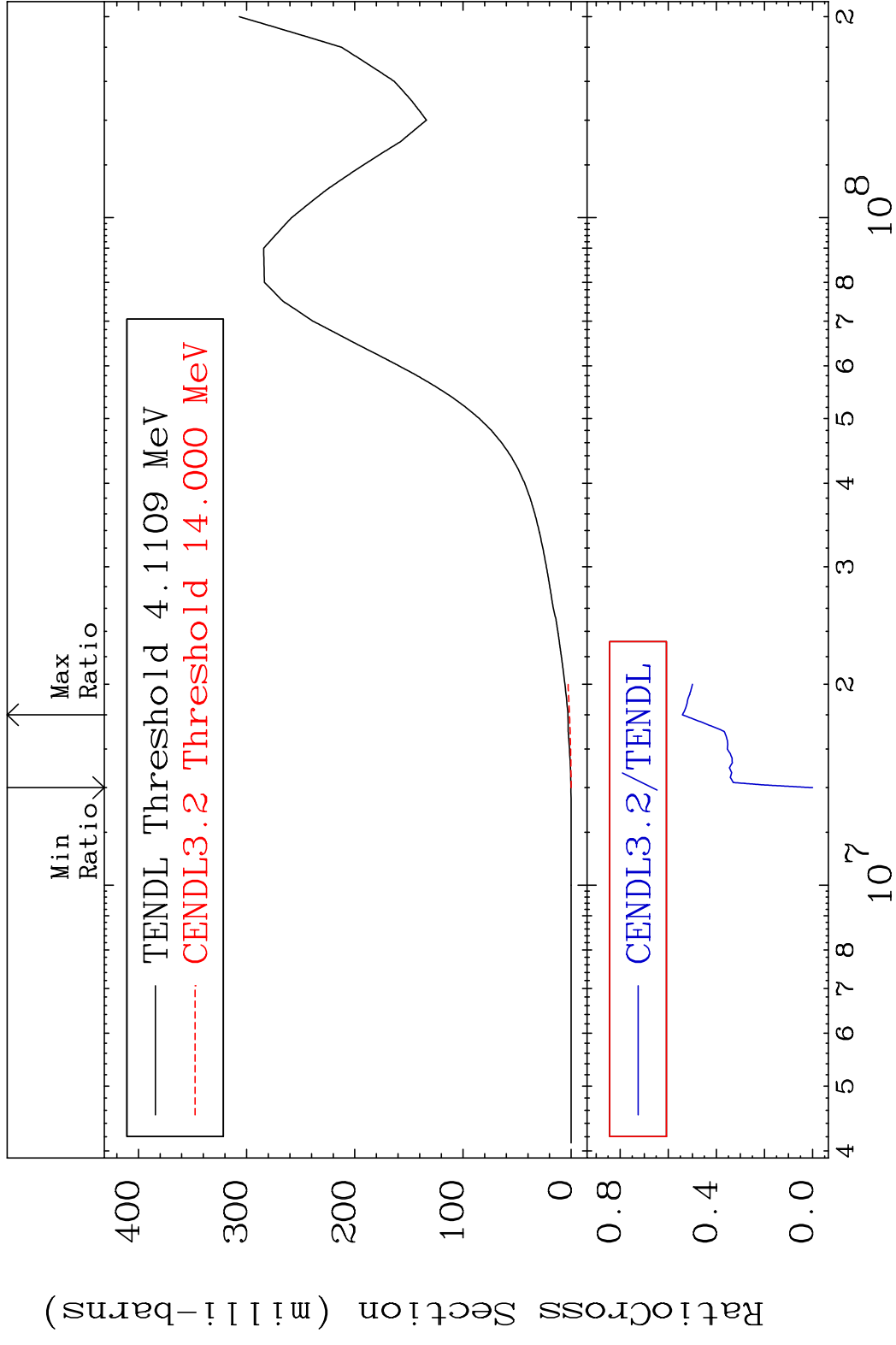
Cross Section -100.0 To -23.33%



33

Incident Energy (eV)

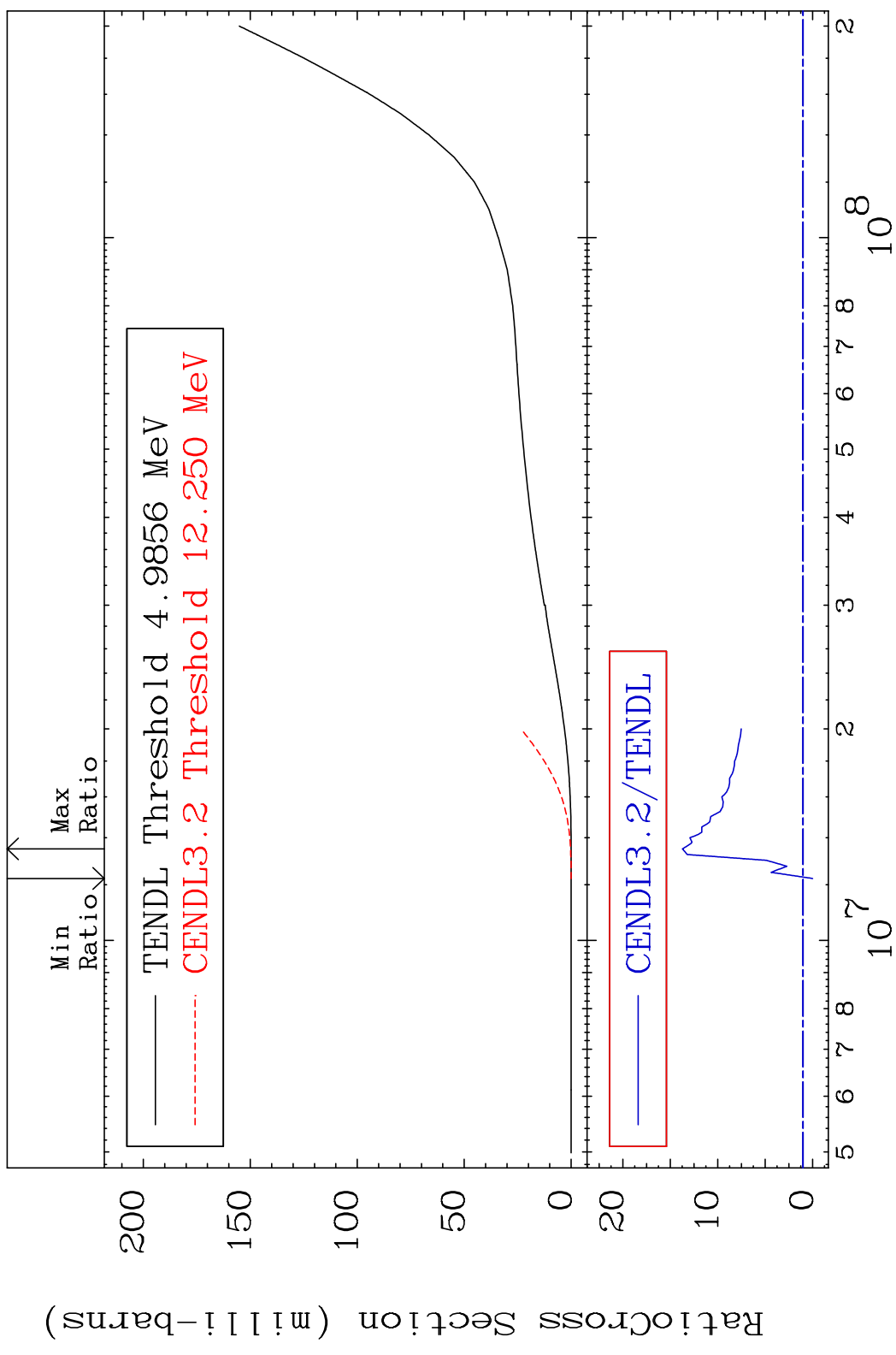
72-Hf-179



MAT 7240

Tritium Production  
Cross Section -100.0 To 1272. %

72-Hf-179



35

Incident Energy (eV)

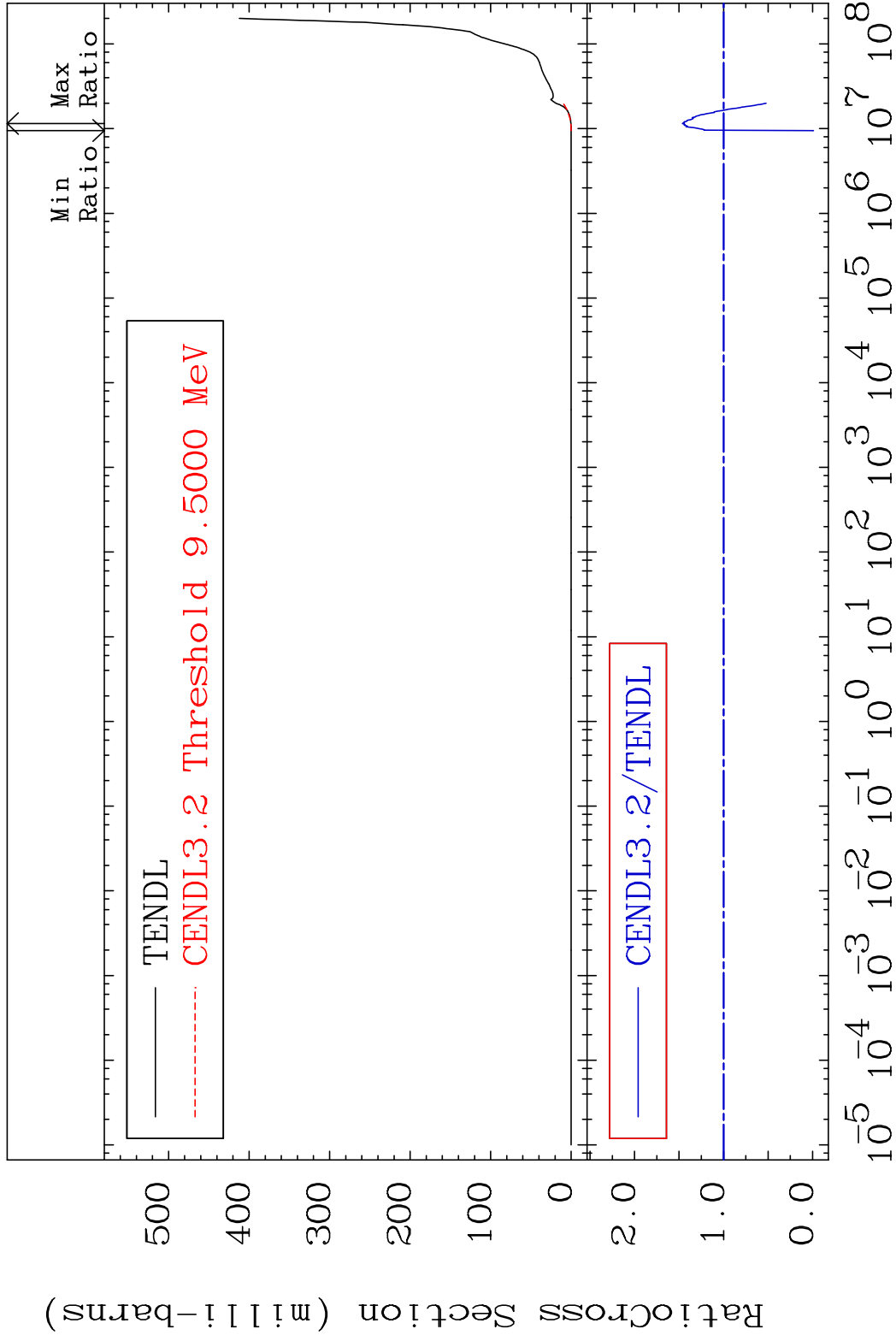
72-Hf-179

MAT 7240

He-4 Production

72-Hf-179

Cross Section -100.0 To 46.32 %

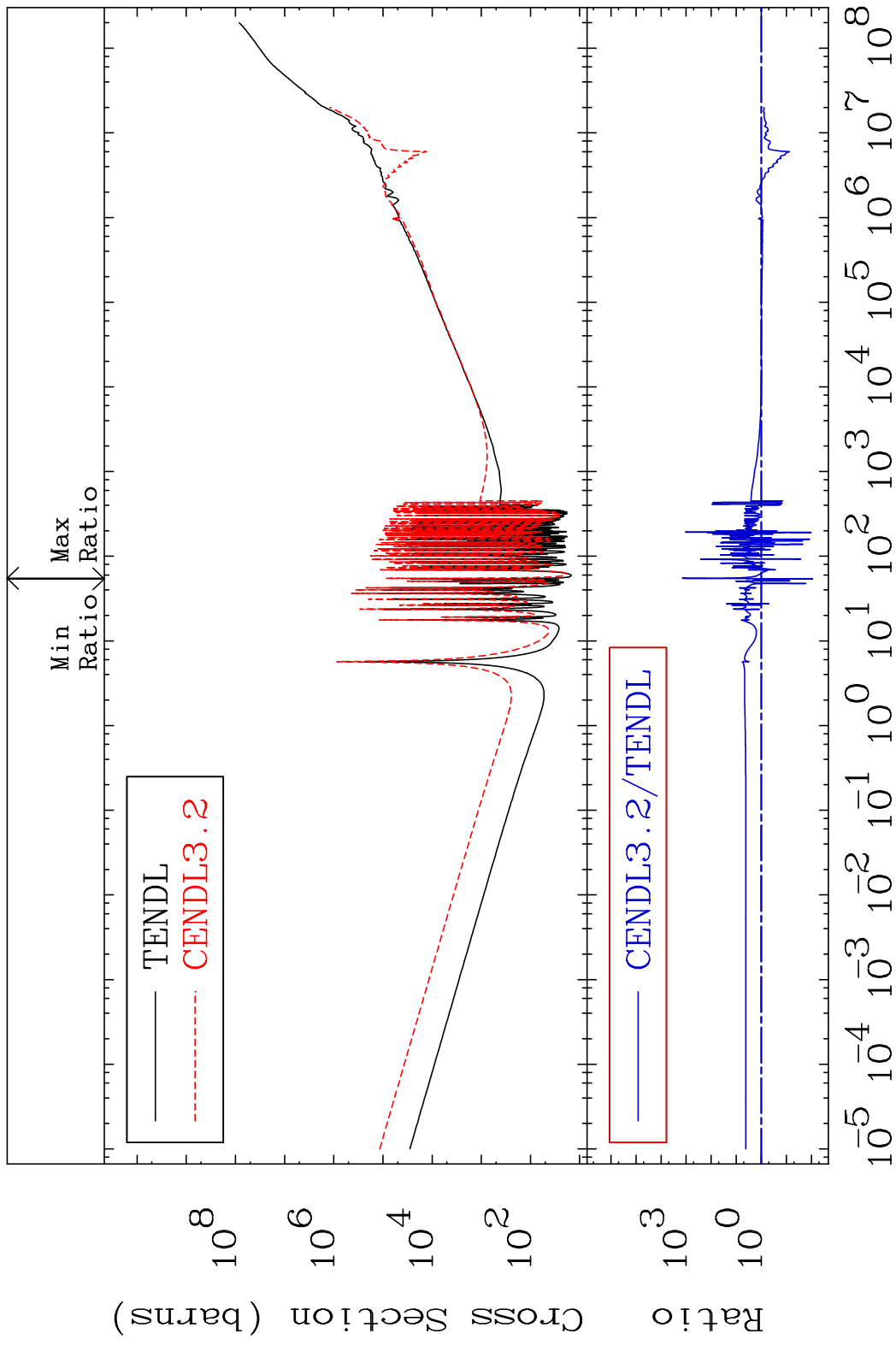


36

Incident Energy (eV)

72-Hf-179

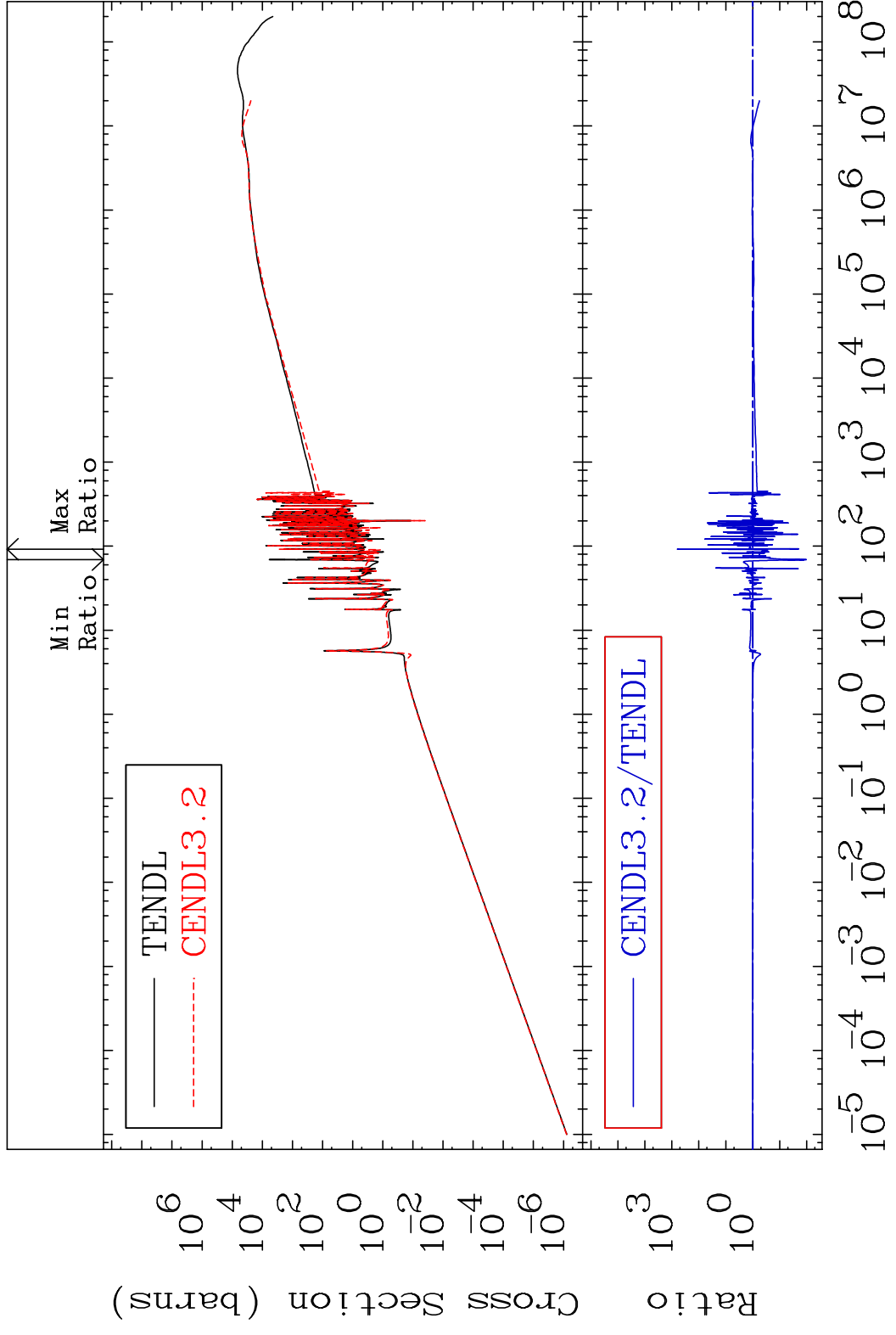
MAT 7240 Kerma total (eV-barns) 72-Hf-179  
 Cross Section -99.10 To 9999. %



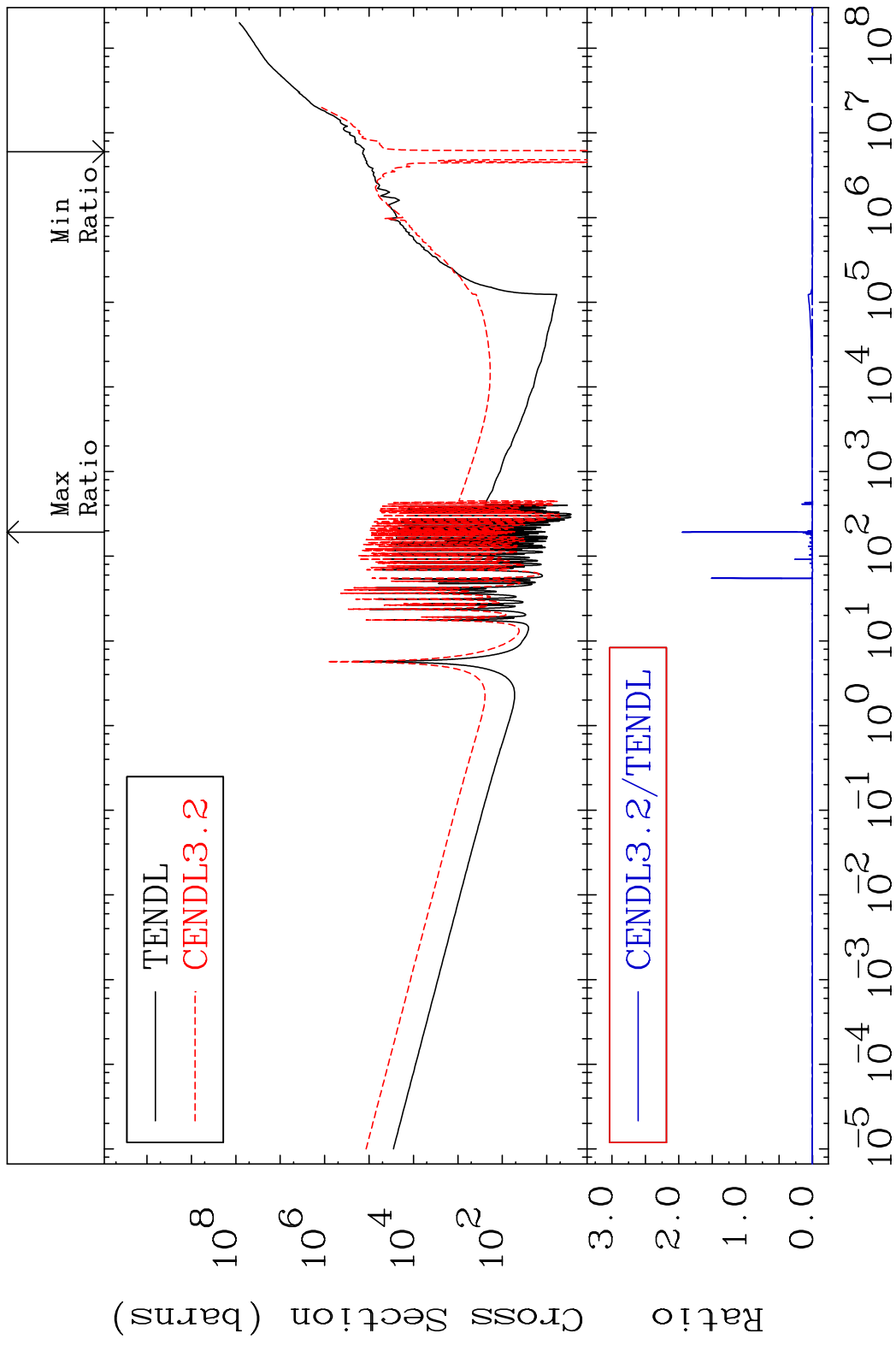
MAT 7240

Kerma elastic  
Cross Section

72-Hf-179  
-98.97 To 9999. %

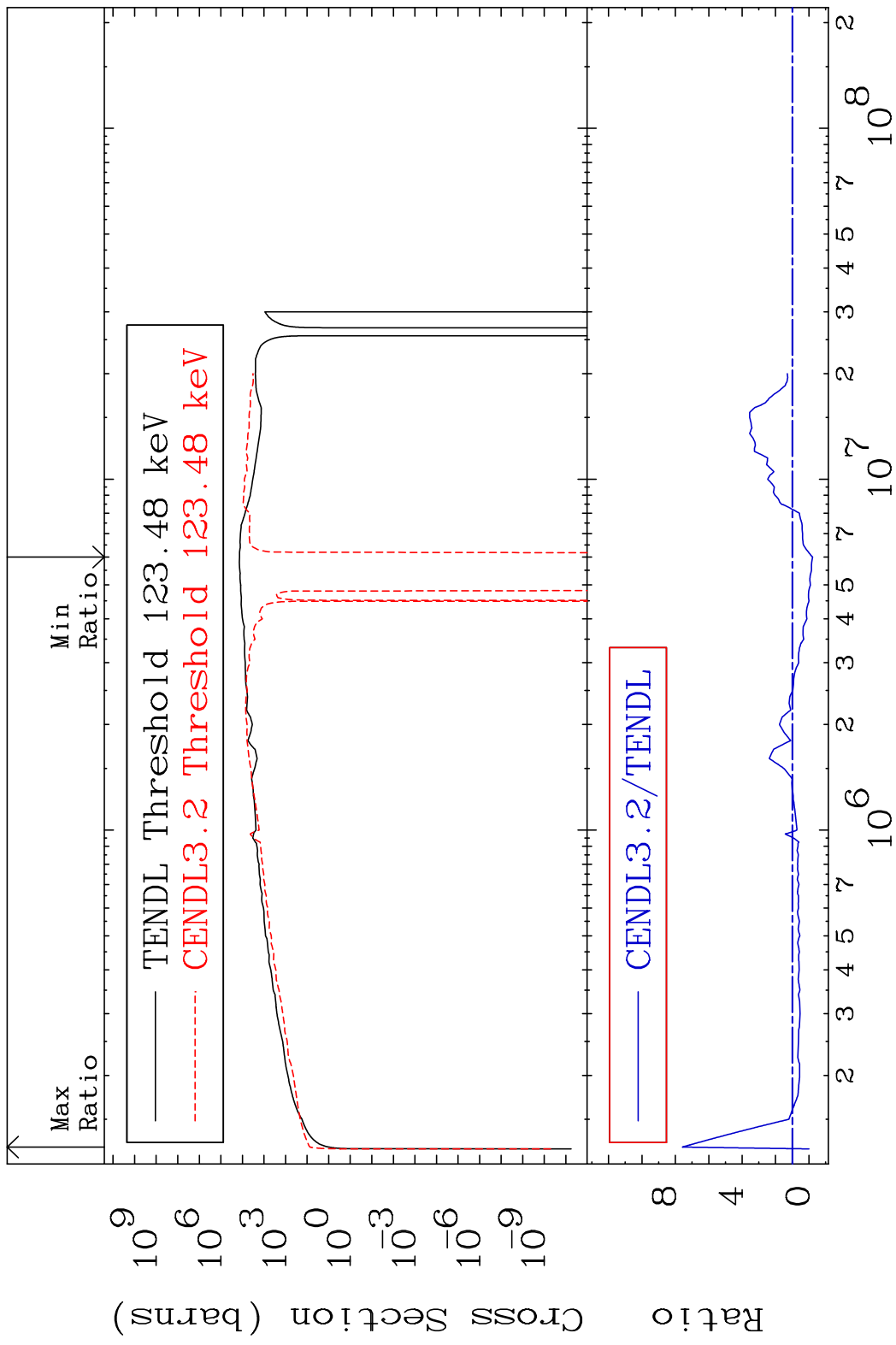


MAT 7240 Kerma non-elastic (all but mt2) 72-Hf-179  
 Cross Section -121.8 To 9999. %



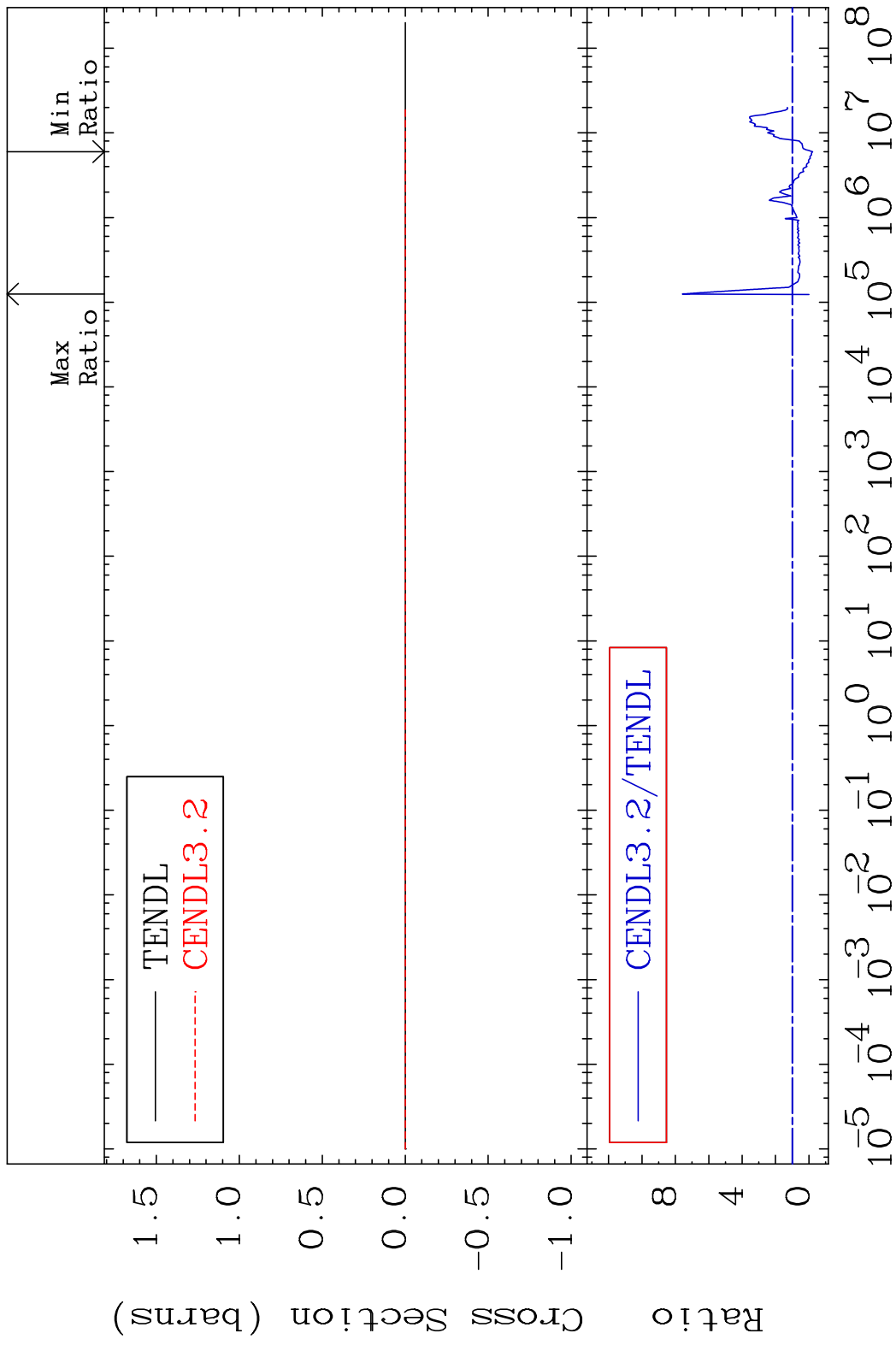


MAT 7240 Kerma inelastic (mt51-91) 72-Hf-179  
 Cross Section -121.8 To 658.0 %



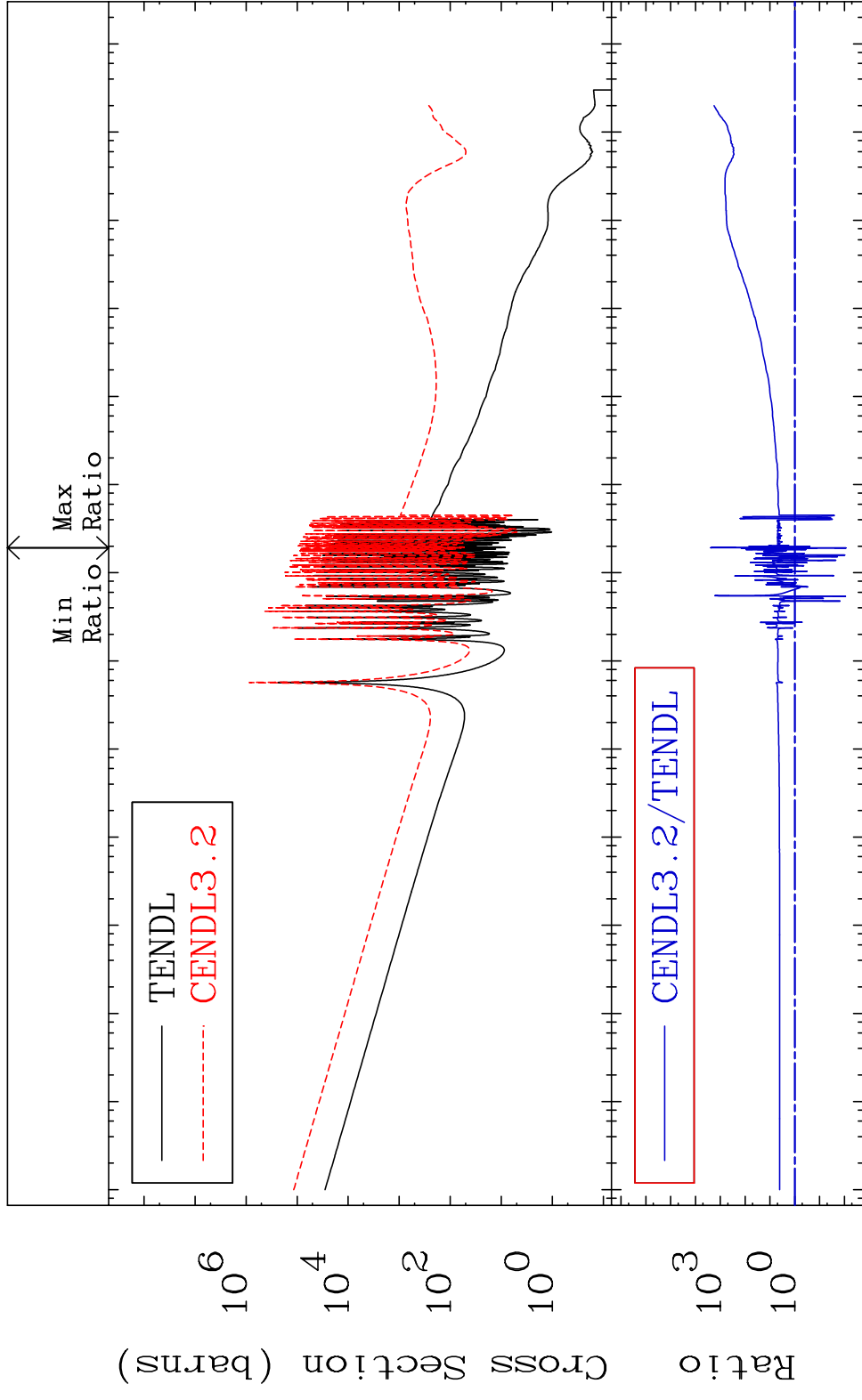
40 Incident Energy (eV) 72-Hf-179

MAT 7240 Kerma fission (mt18 or mt19-20-21-38)72-Hf-179  
 Cross Section -121.8 To 658.0 %



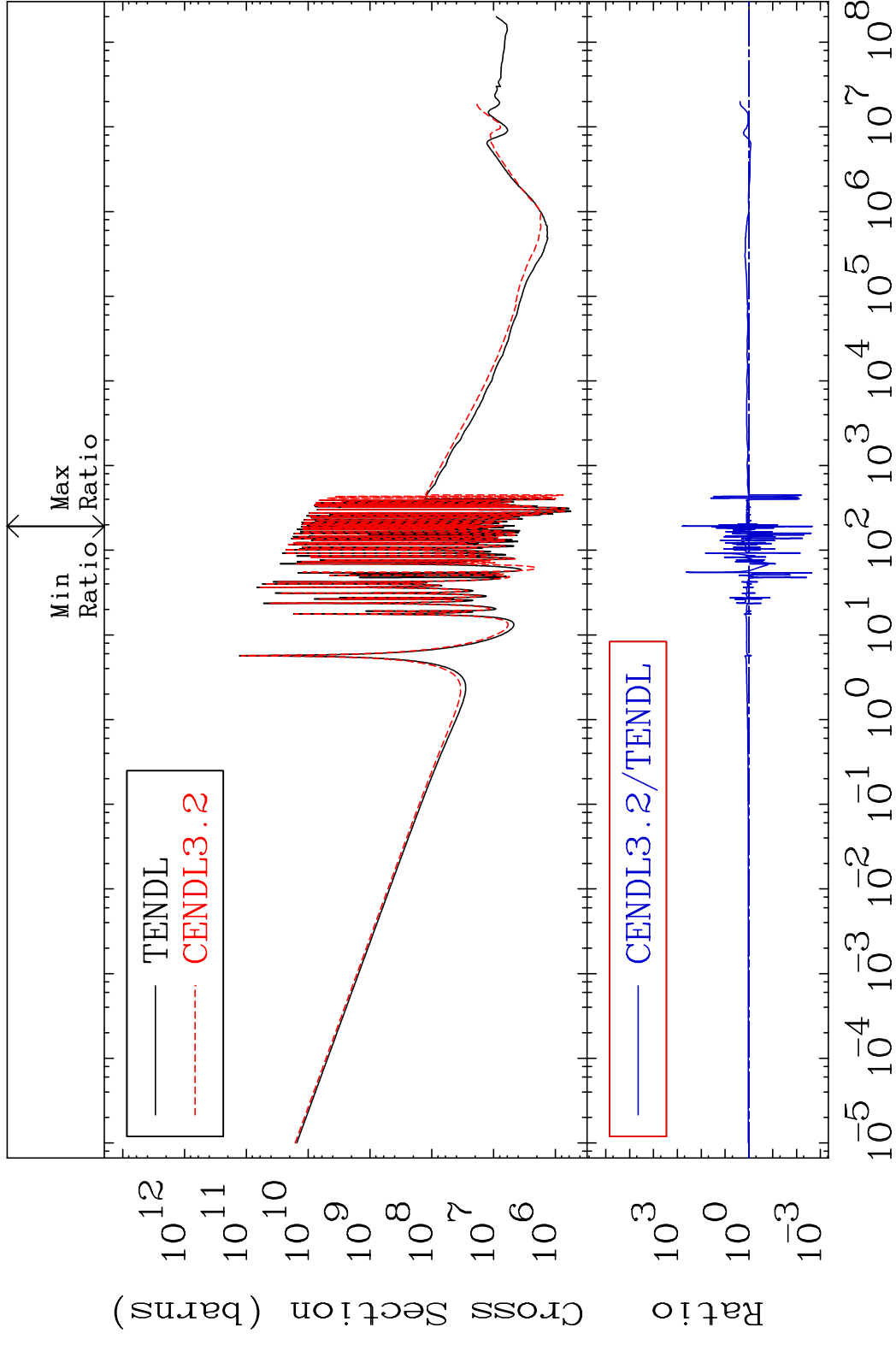
MAT 7240

Kerma capture (mt102) 72-Hf-179  
Cross Section -99.16 To 9999. %



MAT 7240

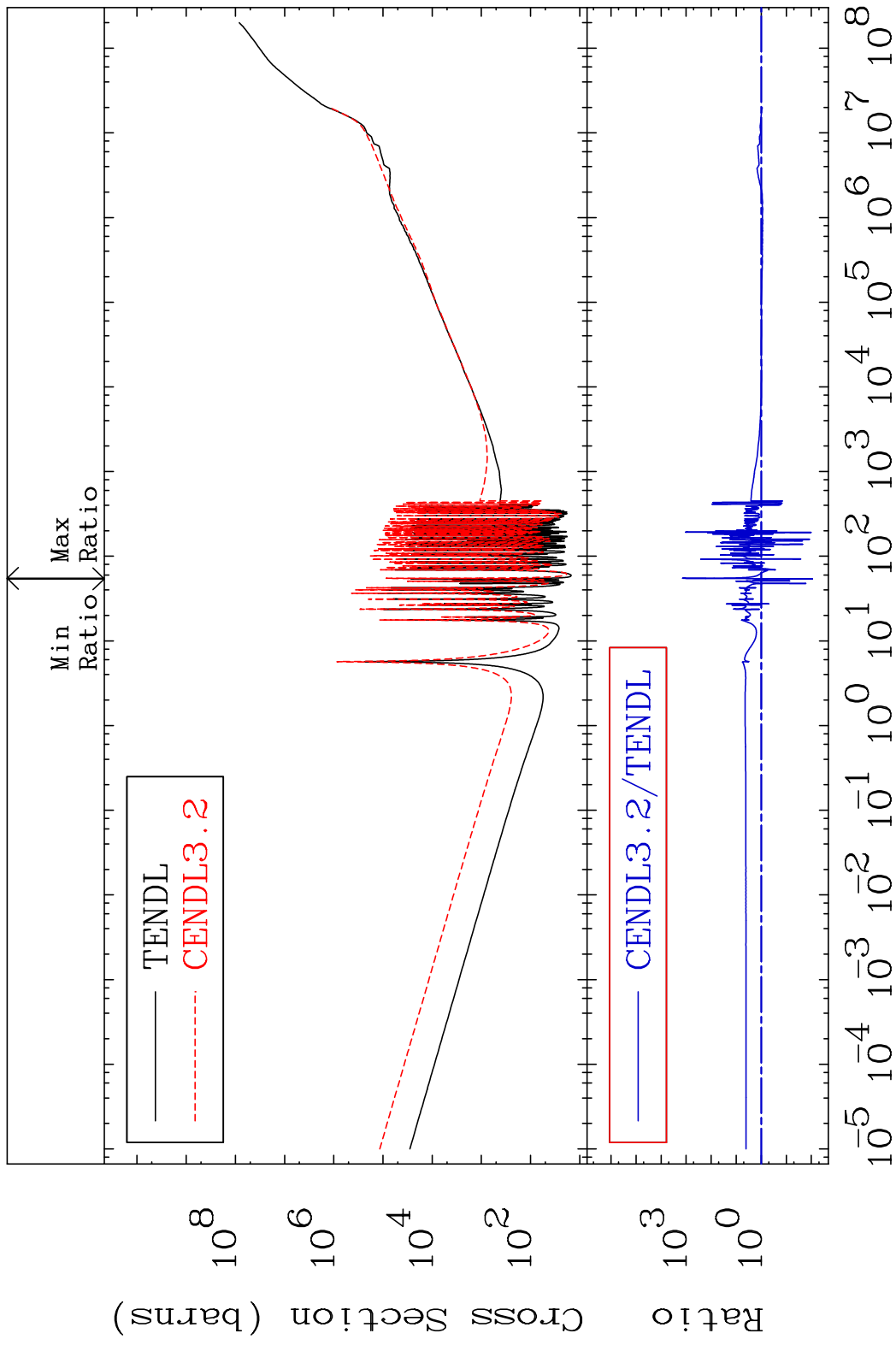
Total photon (eV-barns) 72-Hf-179  
Cross Section -99.79 To 9999. %



43

Incident Energy (eV) 72-Hf-179

MAT 7240 Total kinematic kerma (high limit) 72-Hf-179  
 Cross Section -99.10 To 9999. %

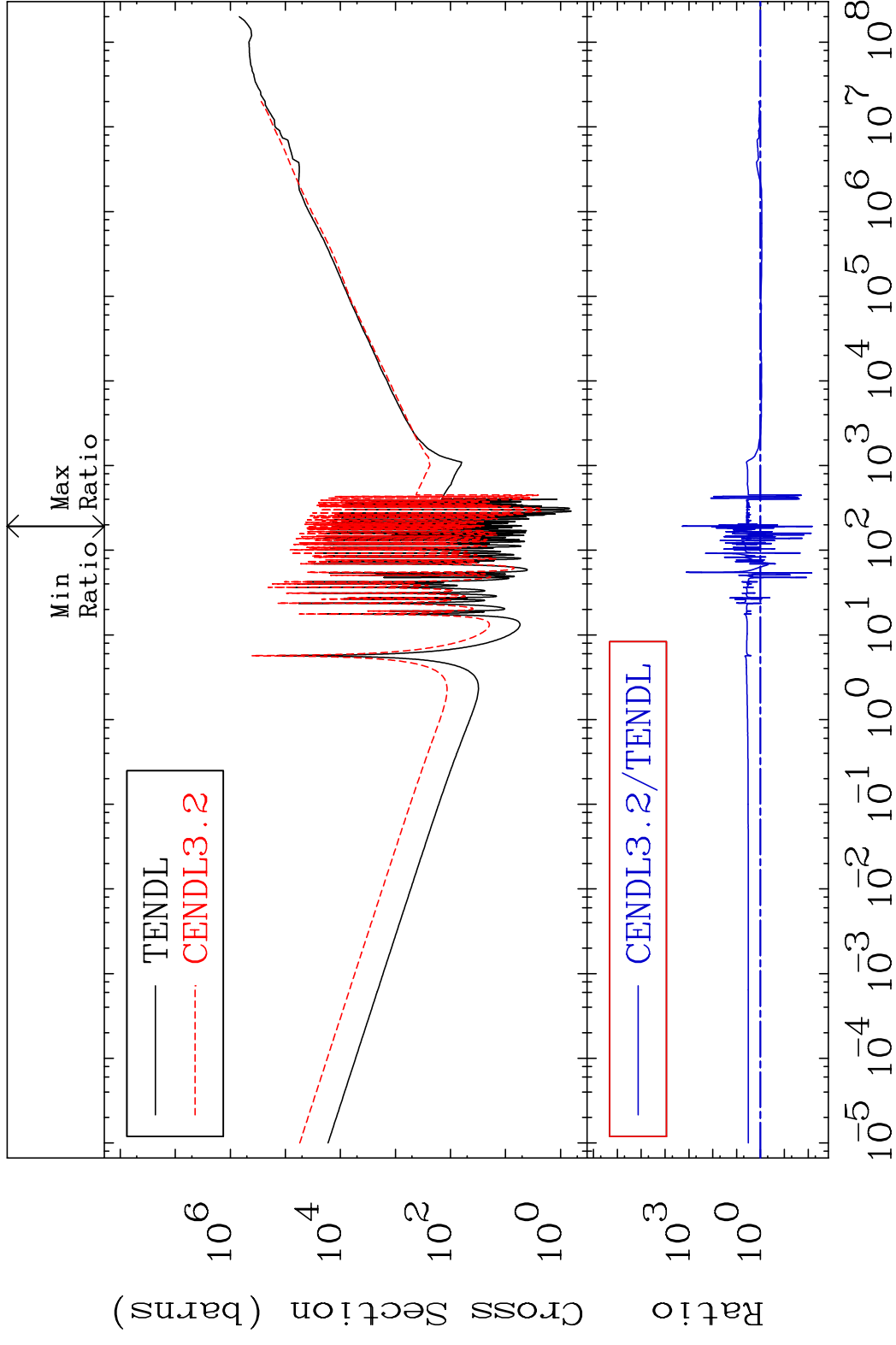


MAT 7240

Dpa total (eV-barns)

72-Hf-179

Cross Section -99.34 To 9999. %



45

Incident Energy (eV)

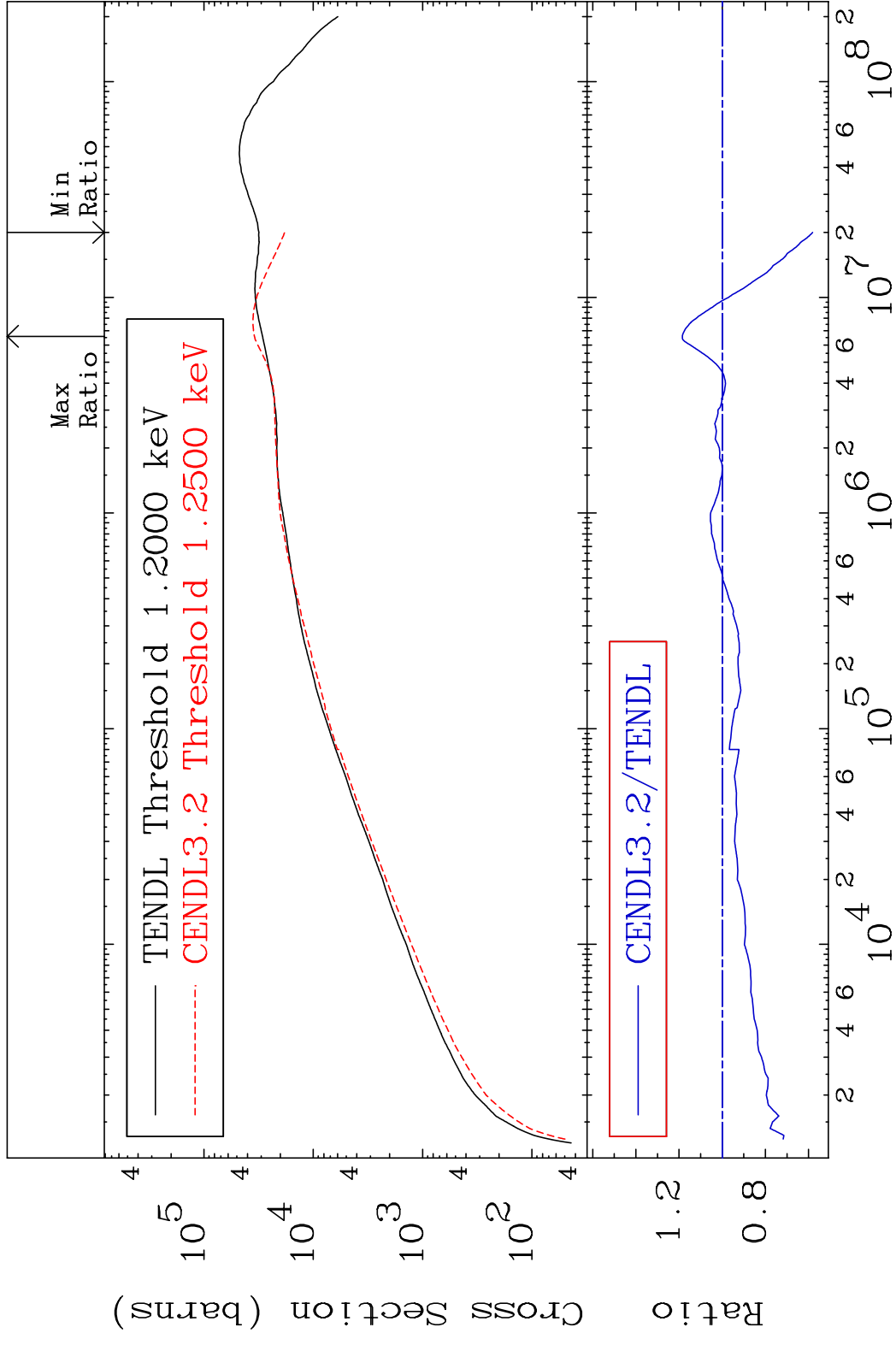
72-Hf-179

MAT 7240

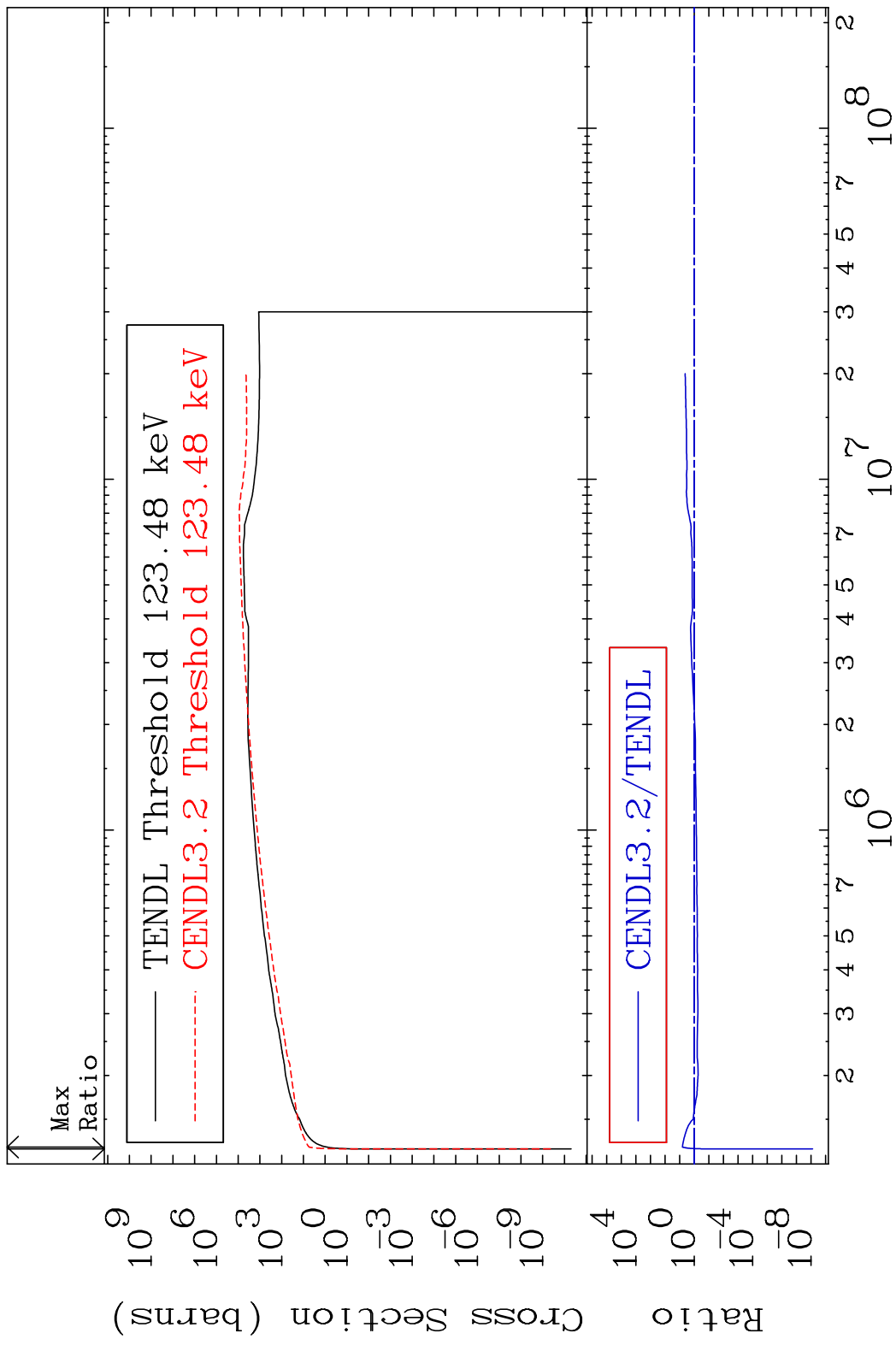
Dpa elastic (mt2)

72-Hf-179

Cross Section -41.83 To 18.47 %

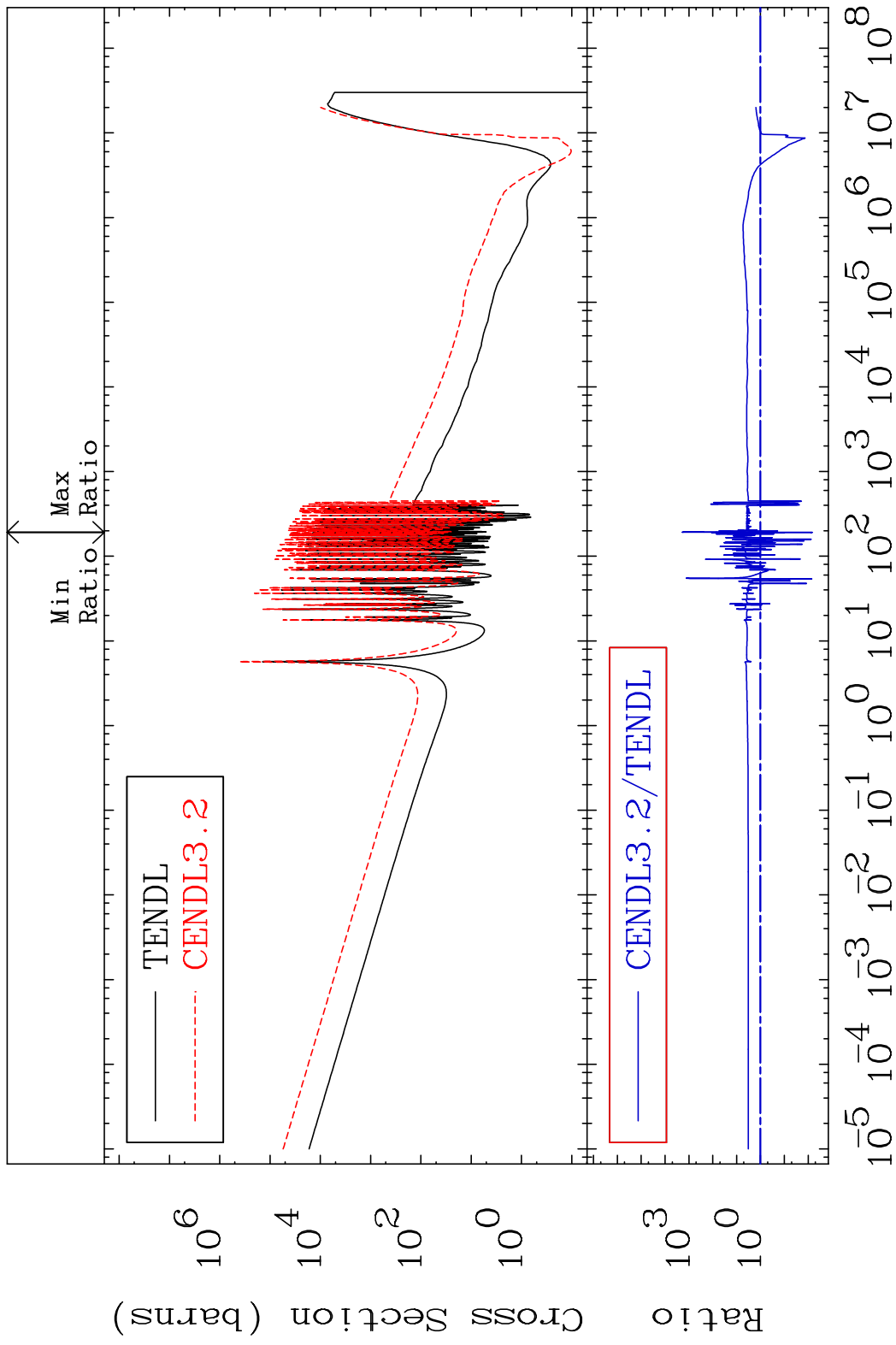


MAT 7240 Dpa inelastic (mt51-91) 72-Hf-179  
 Cross Section -100.0 To 555.6 %





MAT 7240 Dpa disappearance (mt102 -120) 72-Hf-179  
 Cross Section -99.34 To 9999. %

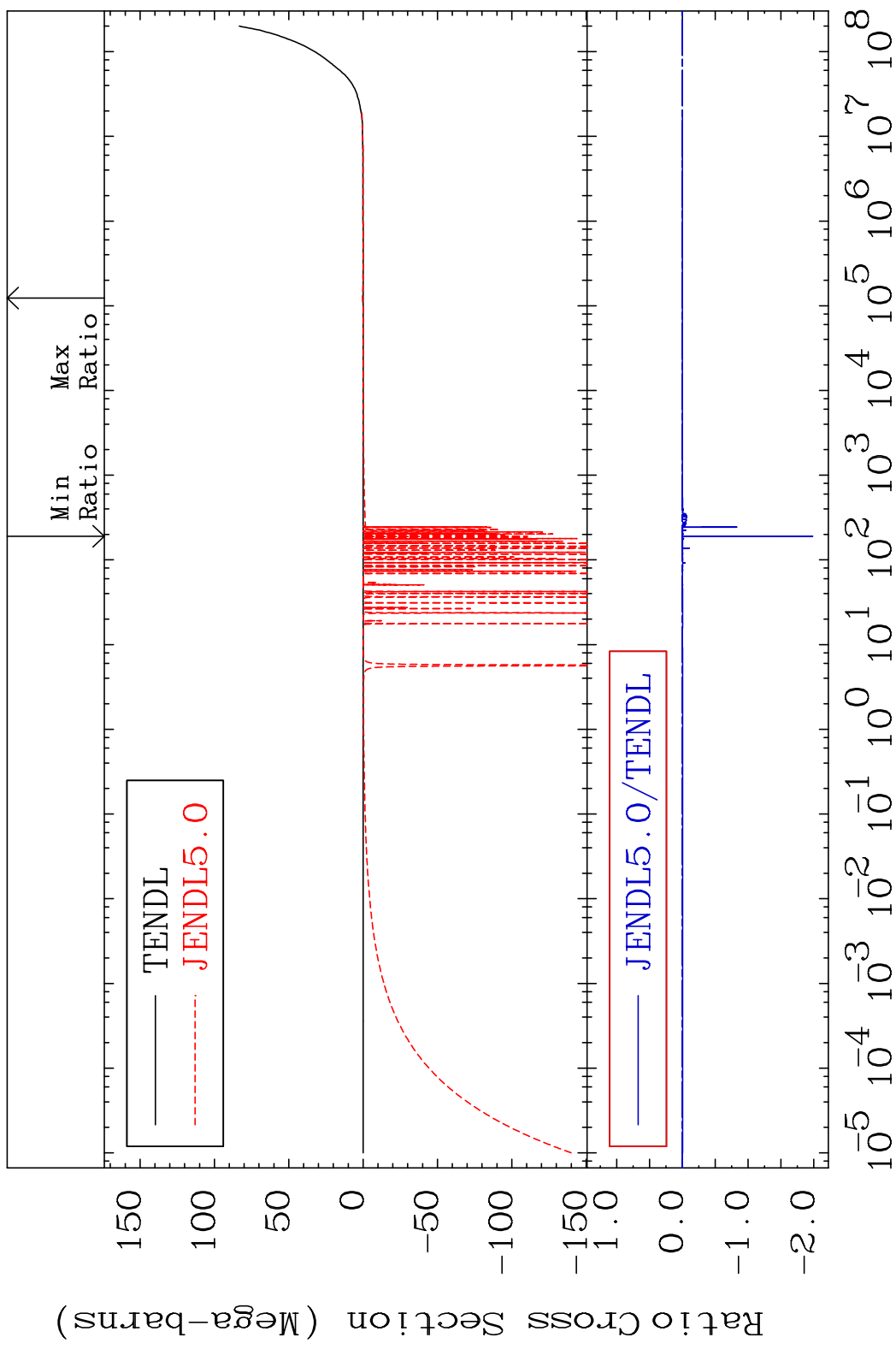


MAT 7240

Kerma total (eV-barns)

72-Hf-179

Cross Section -9999. To 4925. %

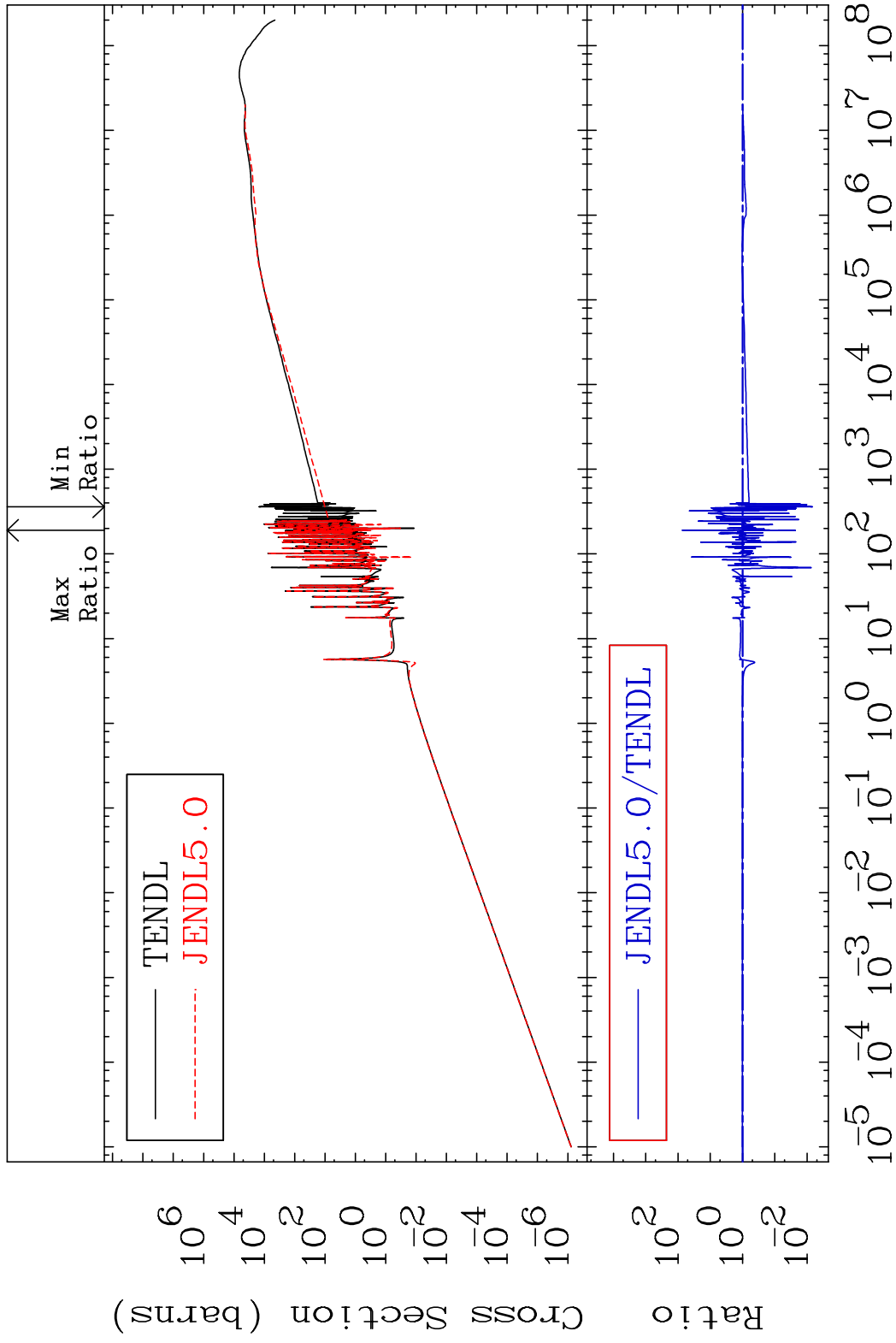


MAT 7240

Kerma elastic

72-Hf-179

Cross Section -99.32 To 7244. %

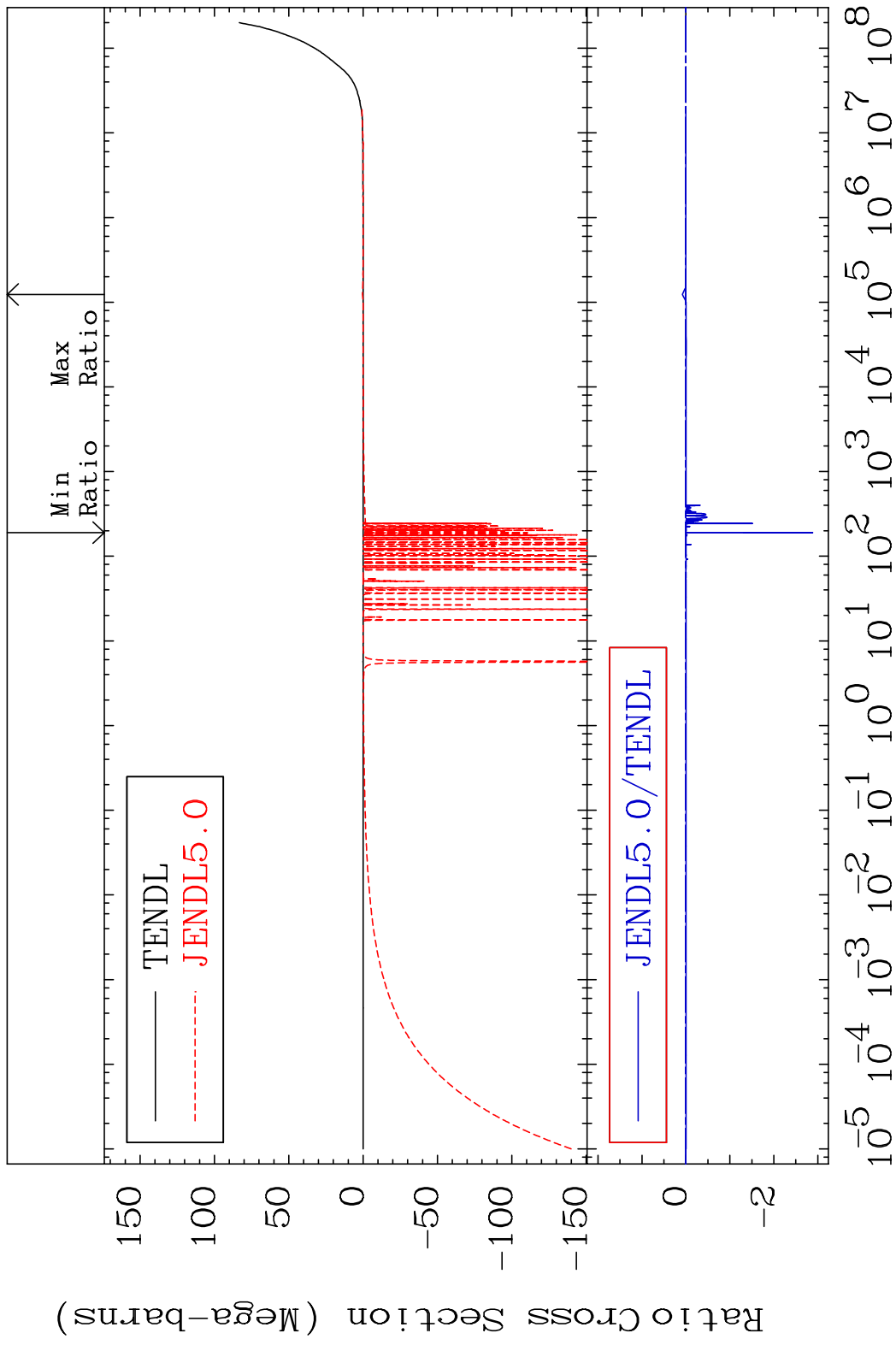


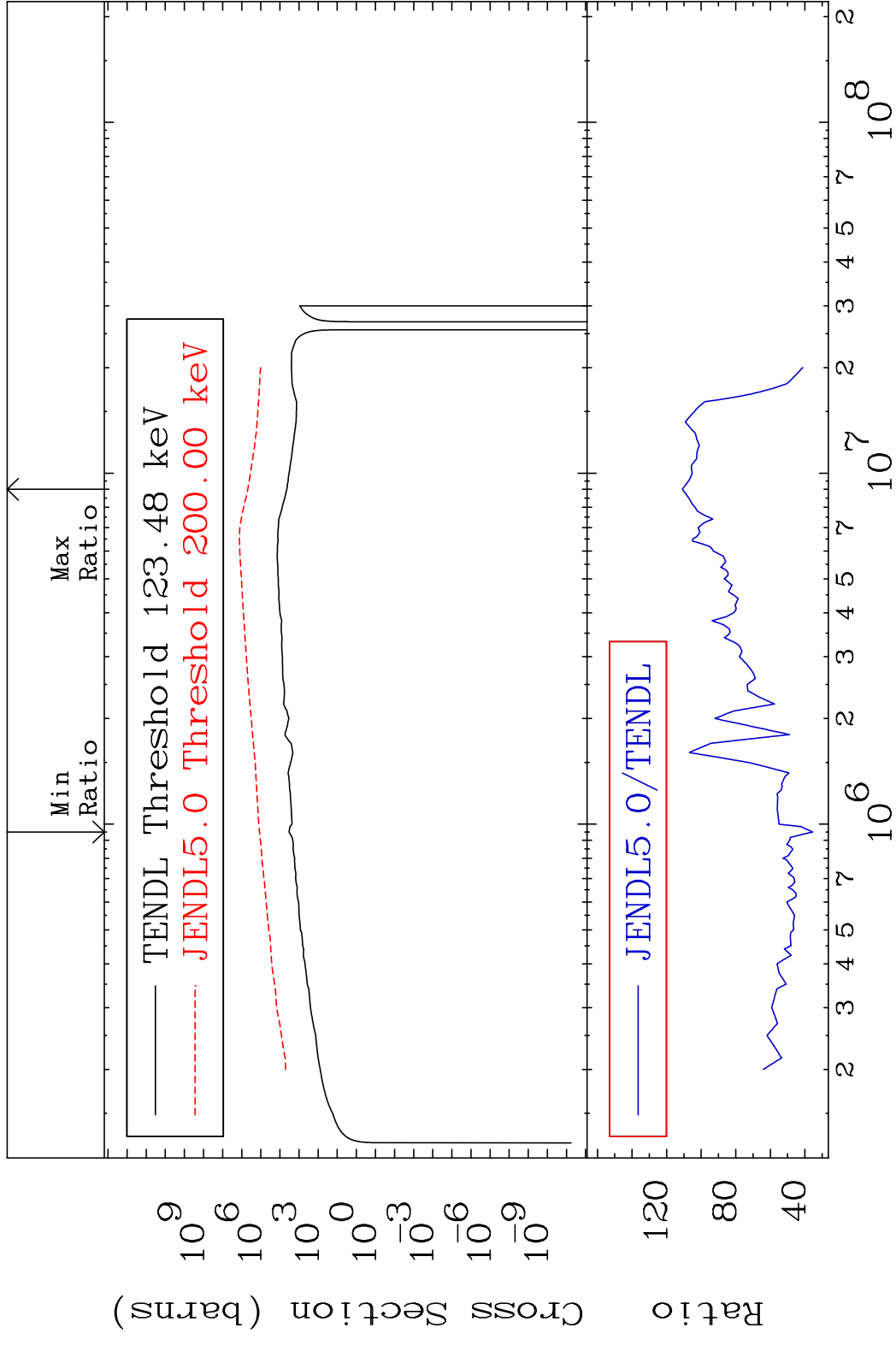
50

Incident Energy (eV)

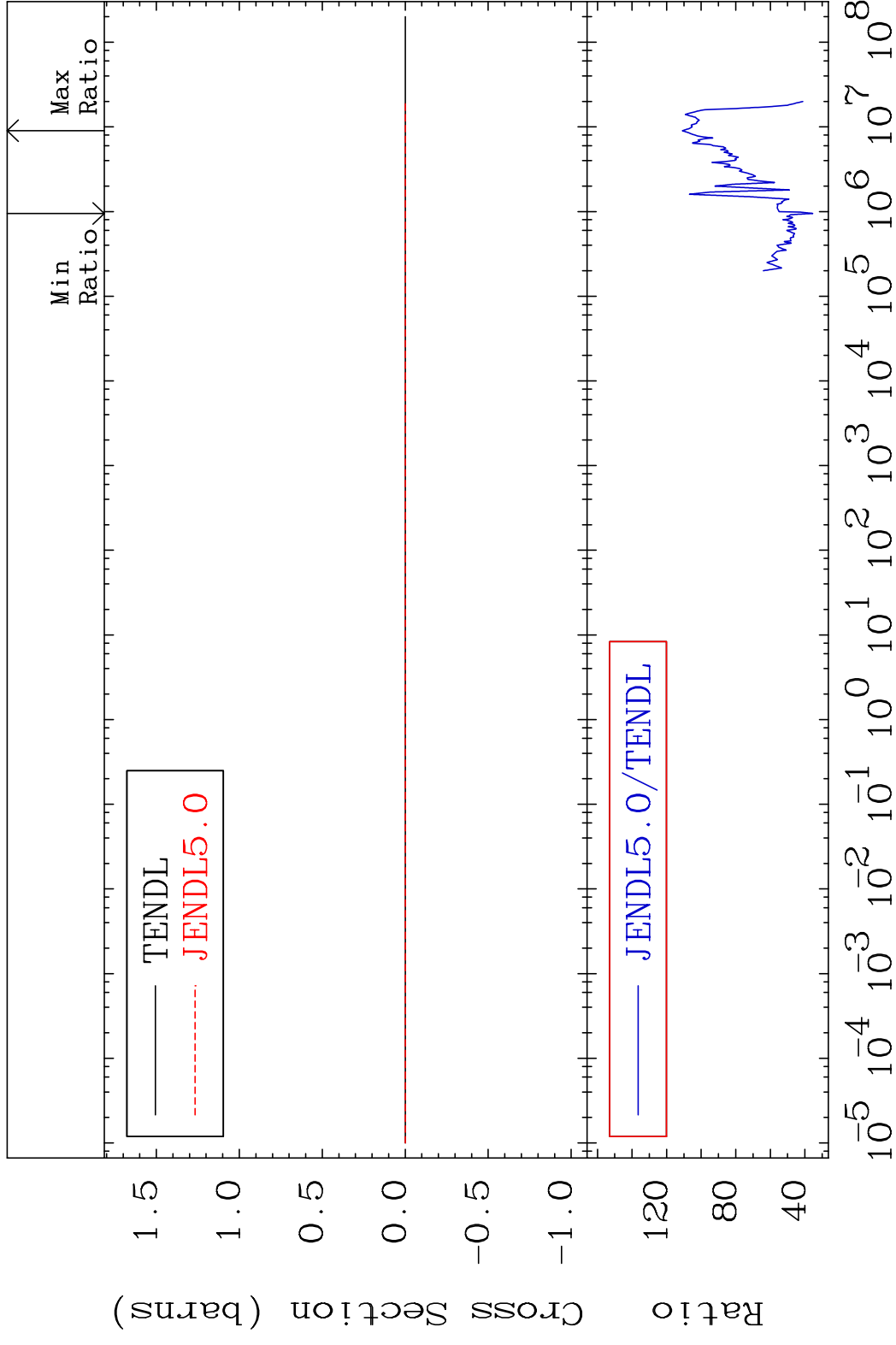
72-Hf-179

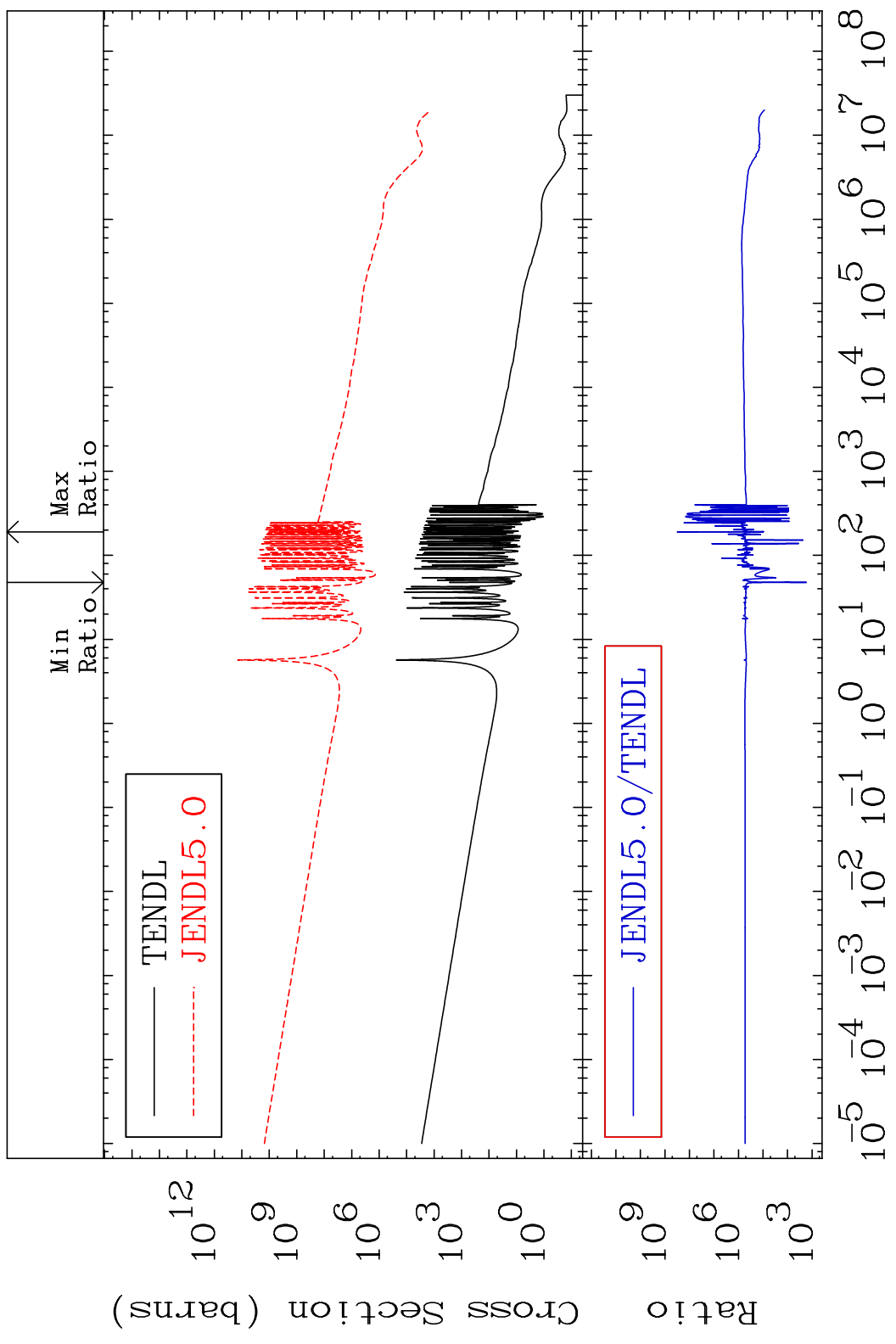
MAT 7240 Kerma non-elastic (all but mt2) 72-Hf-179  
 Cross Section -9999. To 9999. %





MAT 7240 Kerma fission (mt18 or mt19-20-21-38) 72-Hf-179  
 Cross Section 3458. To 9999. %



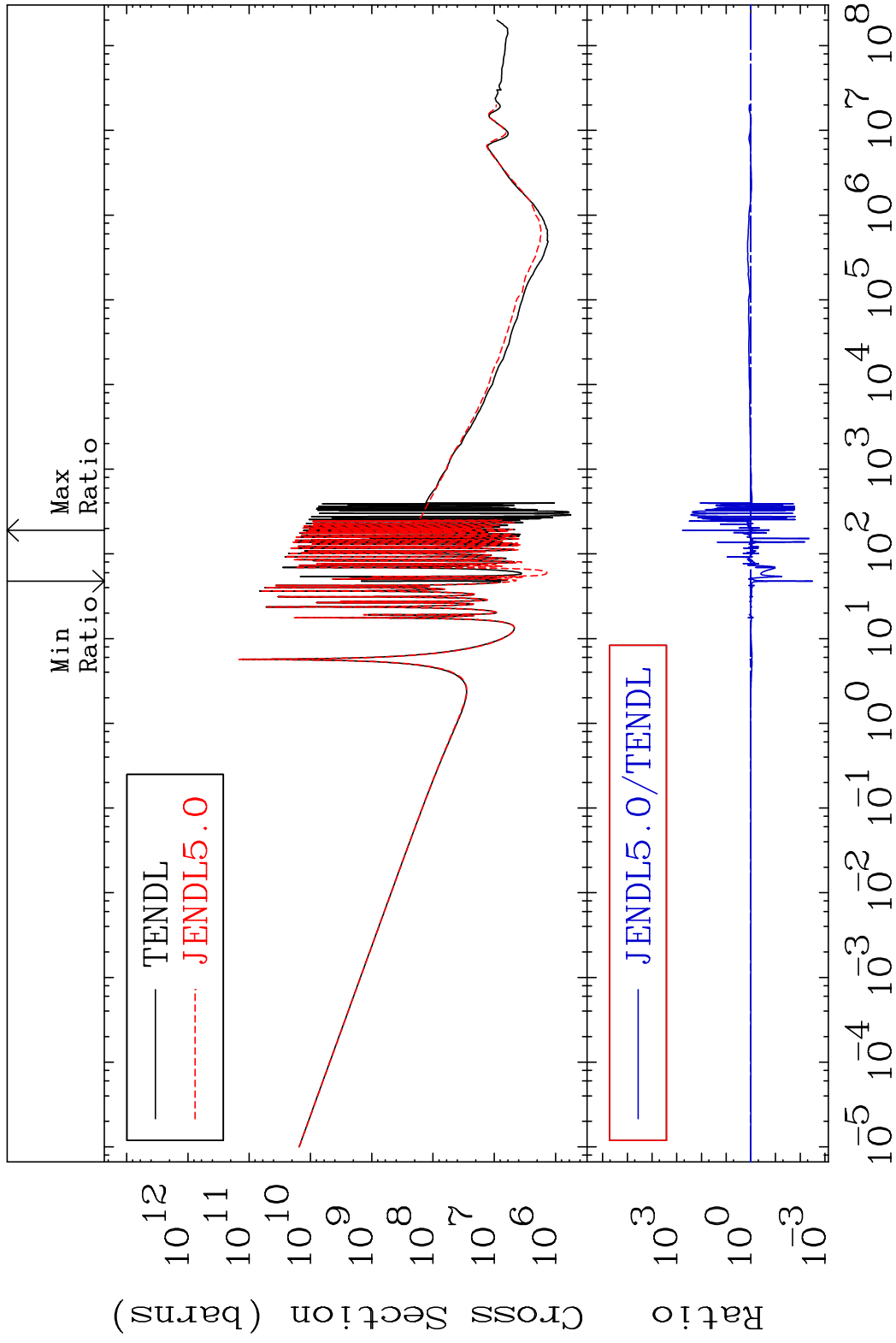


MAT 7240

Total photon (eV-barns)

72-Hf-179

Cross Section -99.68 To 9999. %



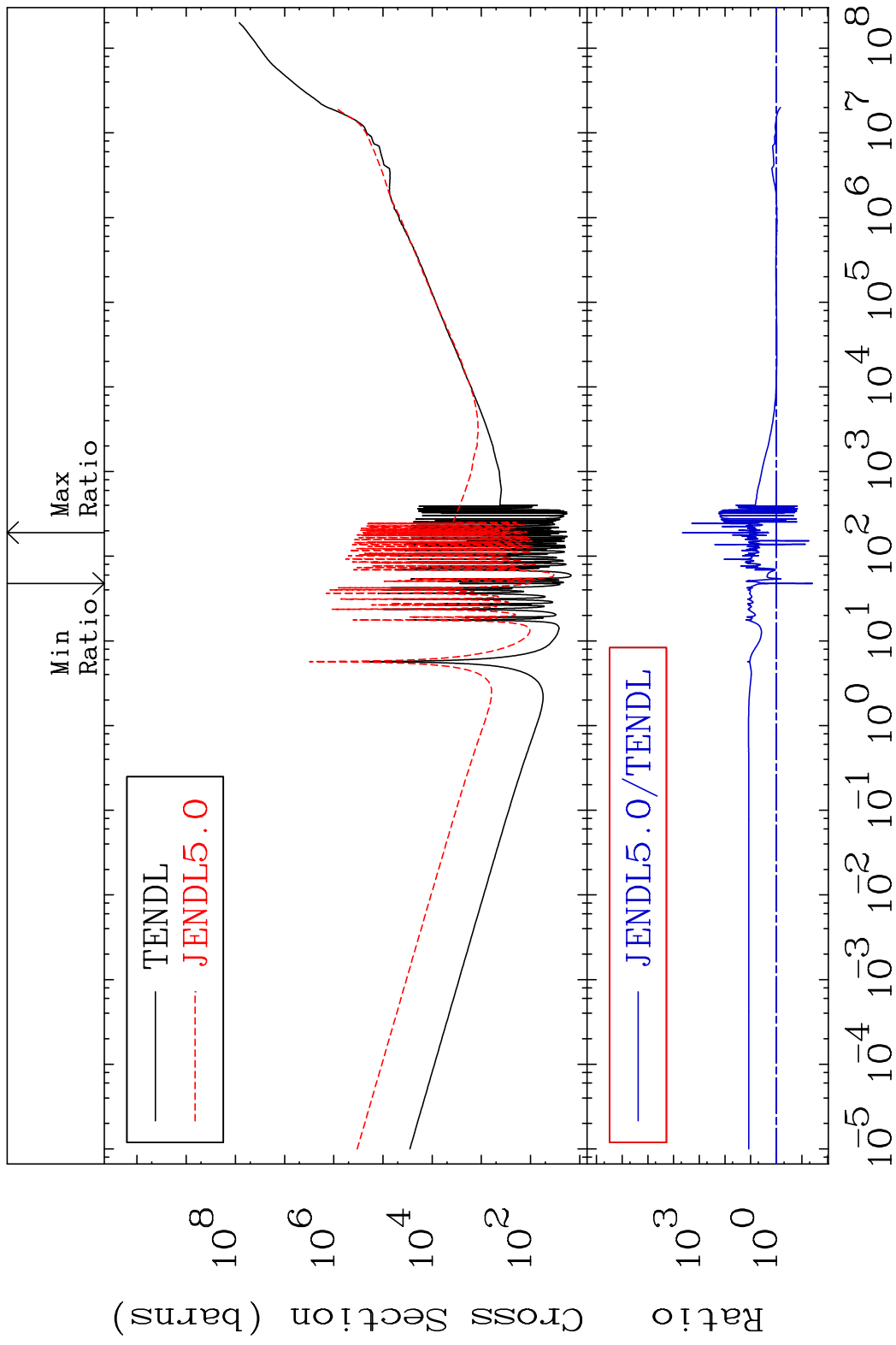
55

Incident Energy (eV)

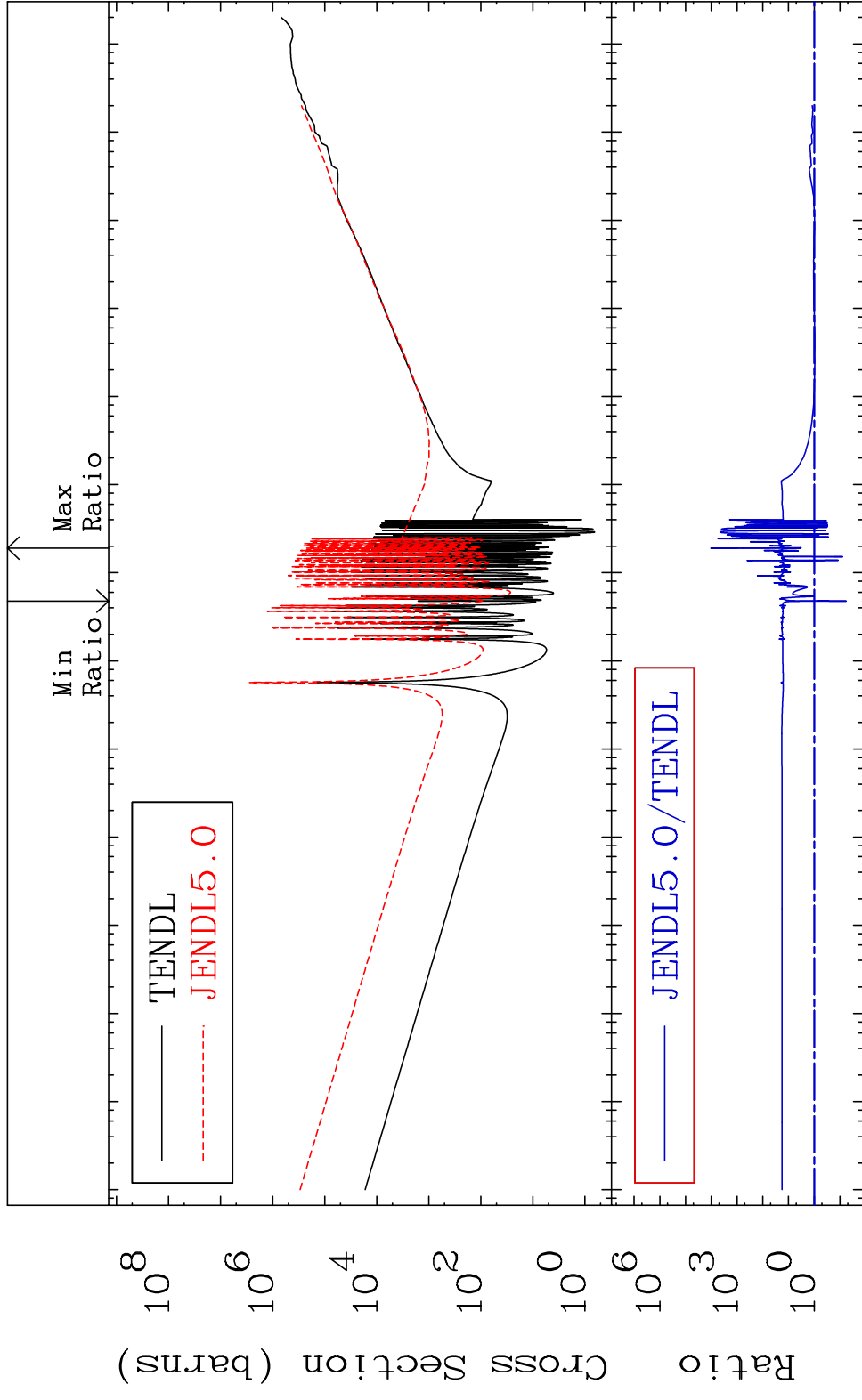
72-Hf-179



MAT 7240 Total kinematic kerma (high limit) 72-Hf-179  
 Cross Section -96.12 To 9999. %



MAT 7240      Dpa total (eV-barns)      72-Hf-179  
 Cross Section      -94.35 To 9999. %

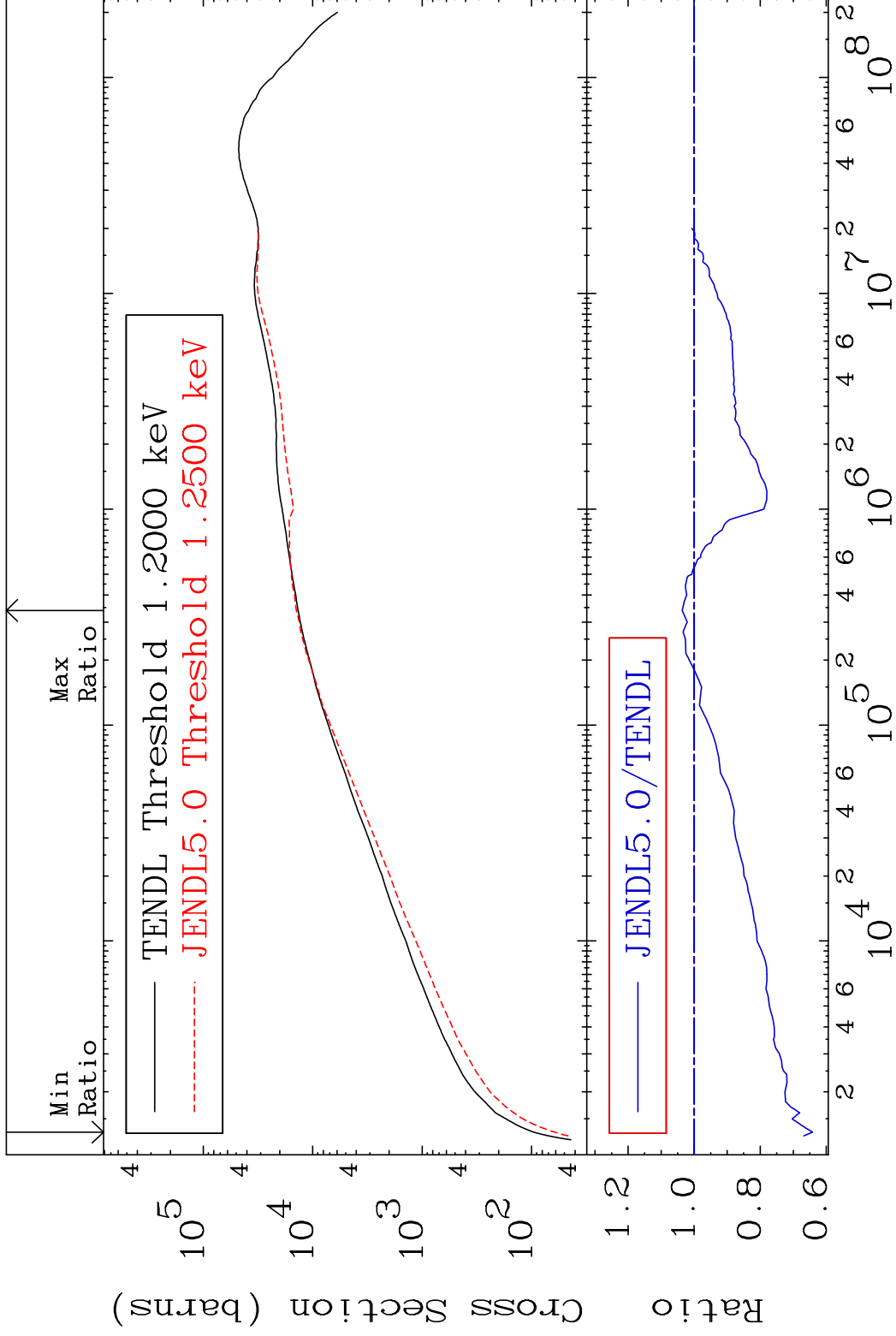


MAT 7240

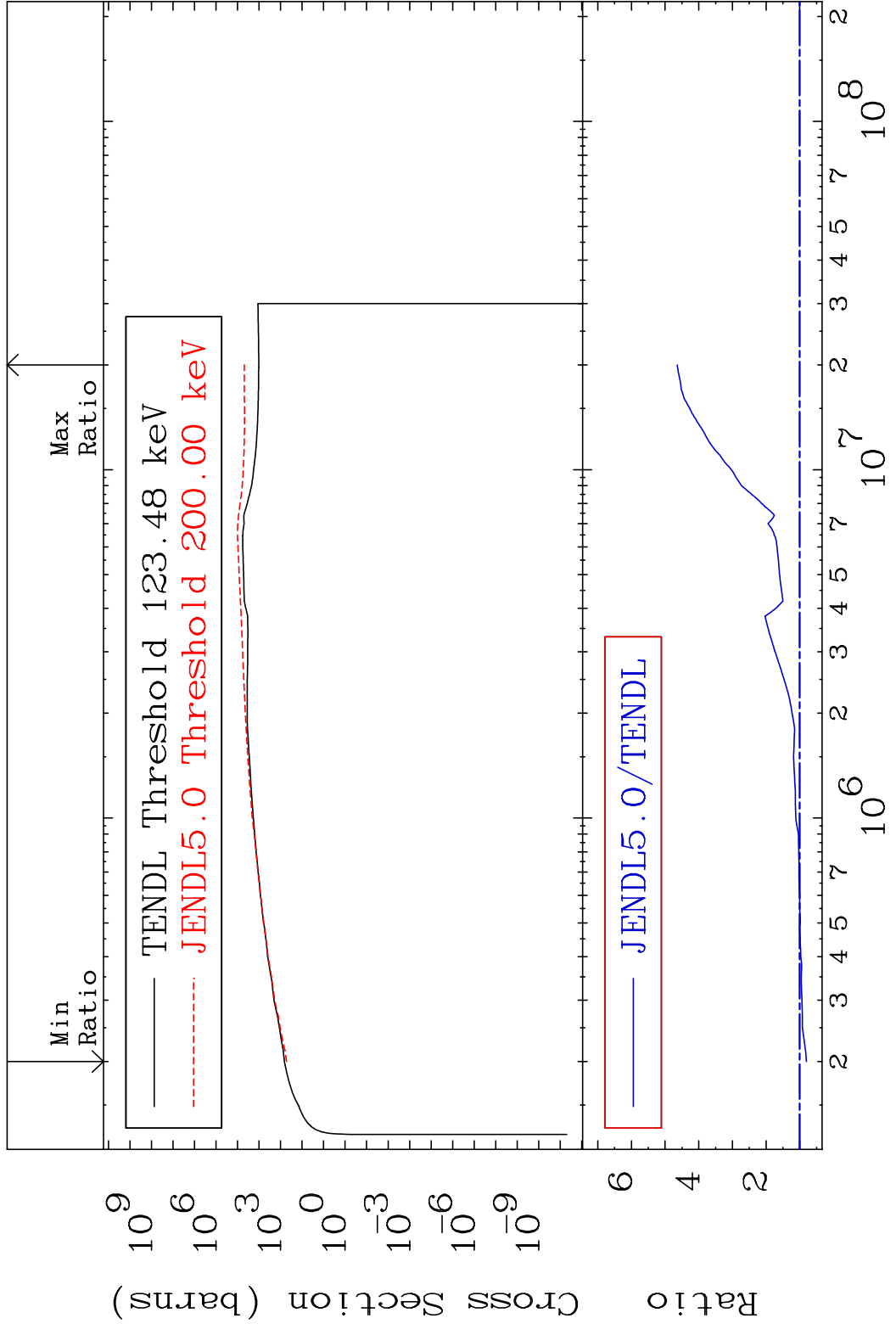
Dpa elastic (mt2)

72-Hf-179

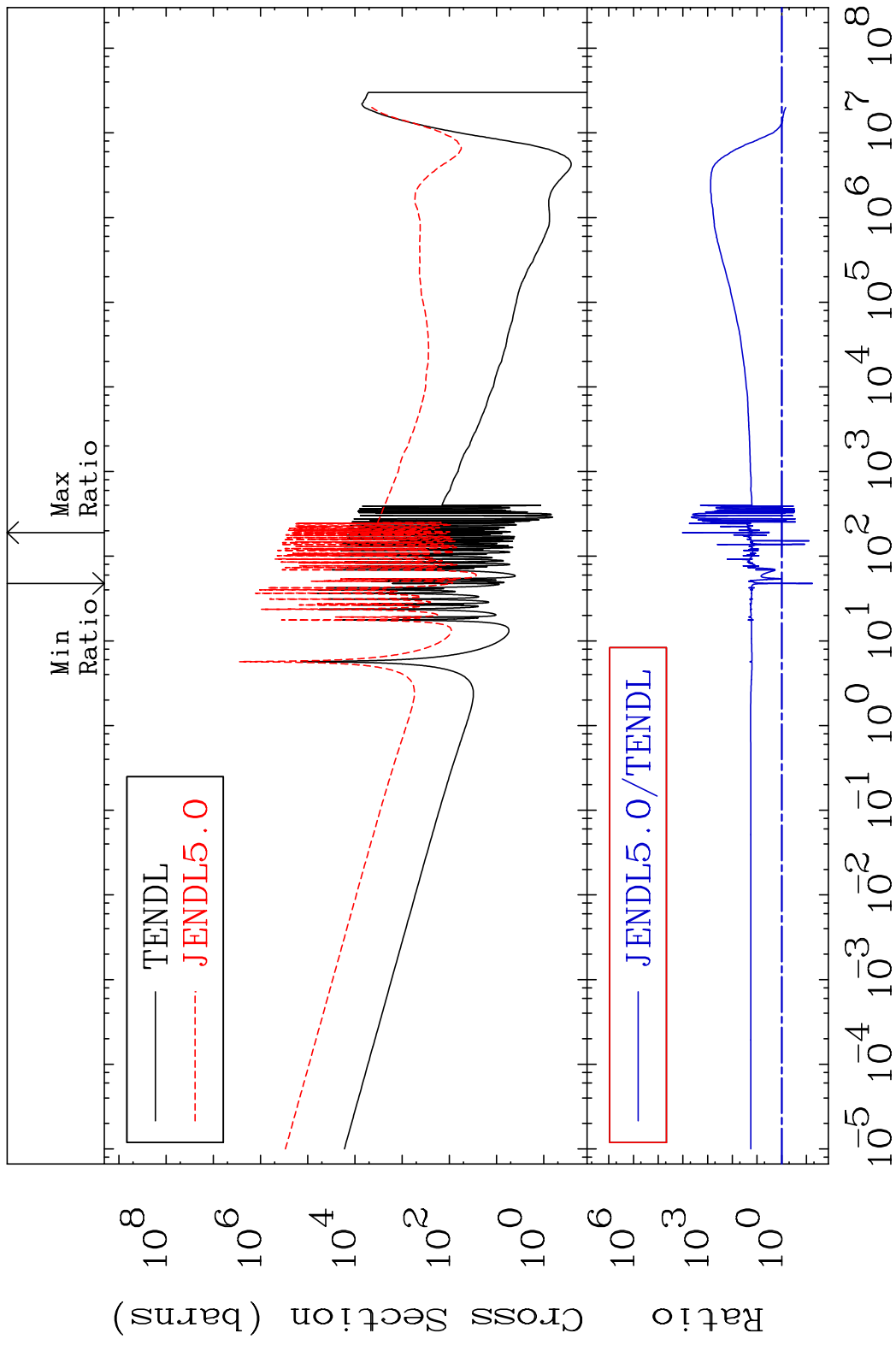
Cross Section -35.82 To 3.632 %



MAT 7240 Dpa inelastic (mt51-91) 72-Hf-179  
 Cross Section -19.82 To 364.1 %

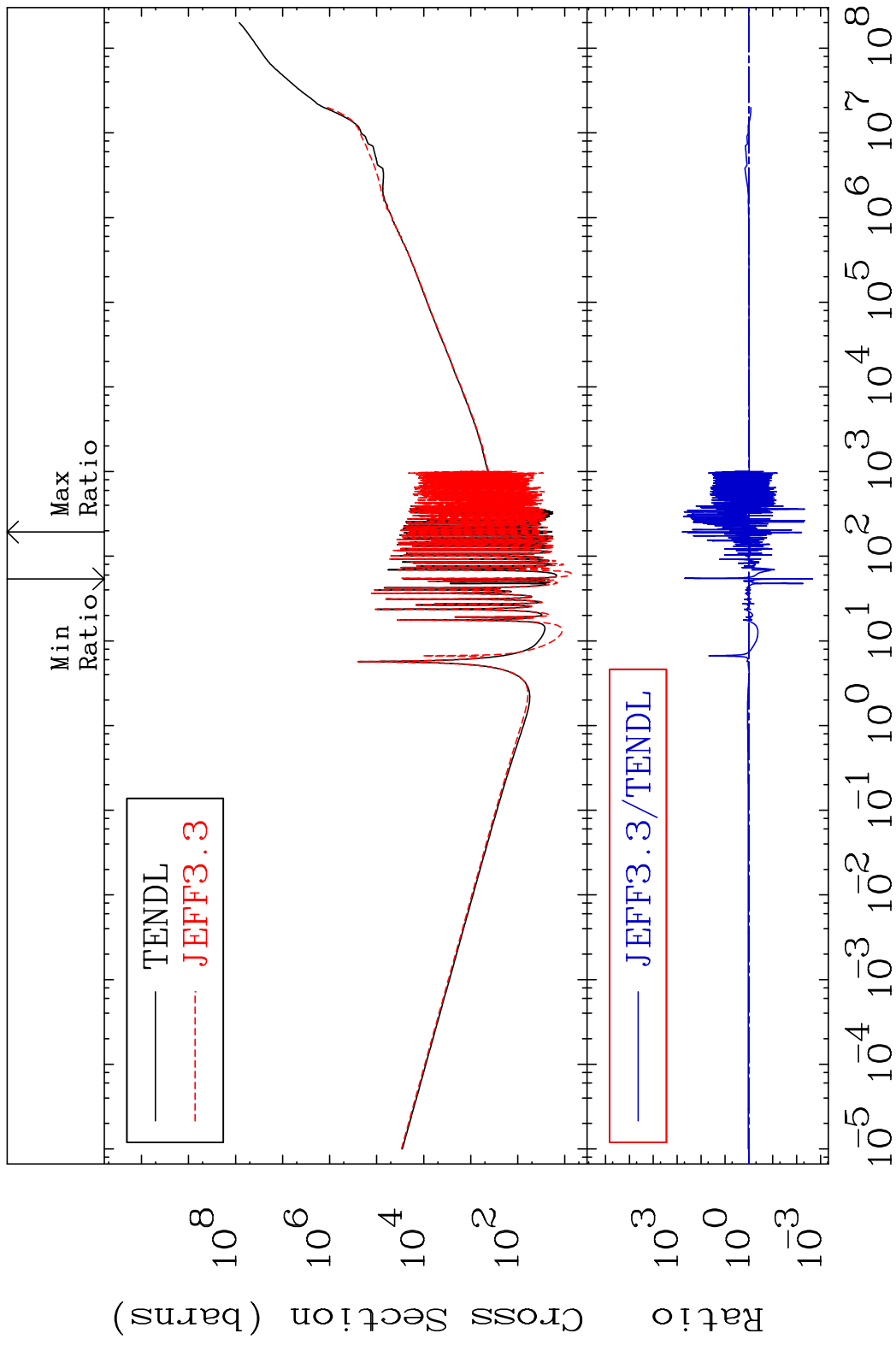


MAT 7240 Dpa disappearance (mt102 -120) 72-Hf-179  
 Cross Section -94.35 To 9999. %



60 Incident Energy (eV) 72-Hf-179

MAT 7240 Total kinematic kerma (high limit) 72-Hf-179  
 Cross Section -99.78 To 9999. %

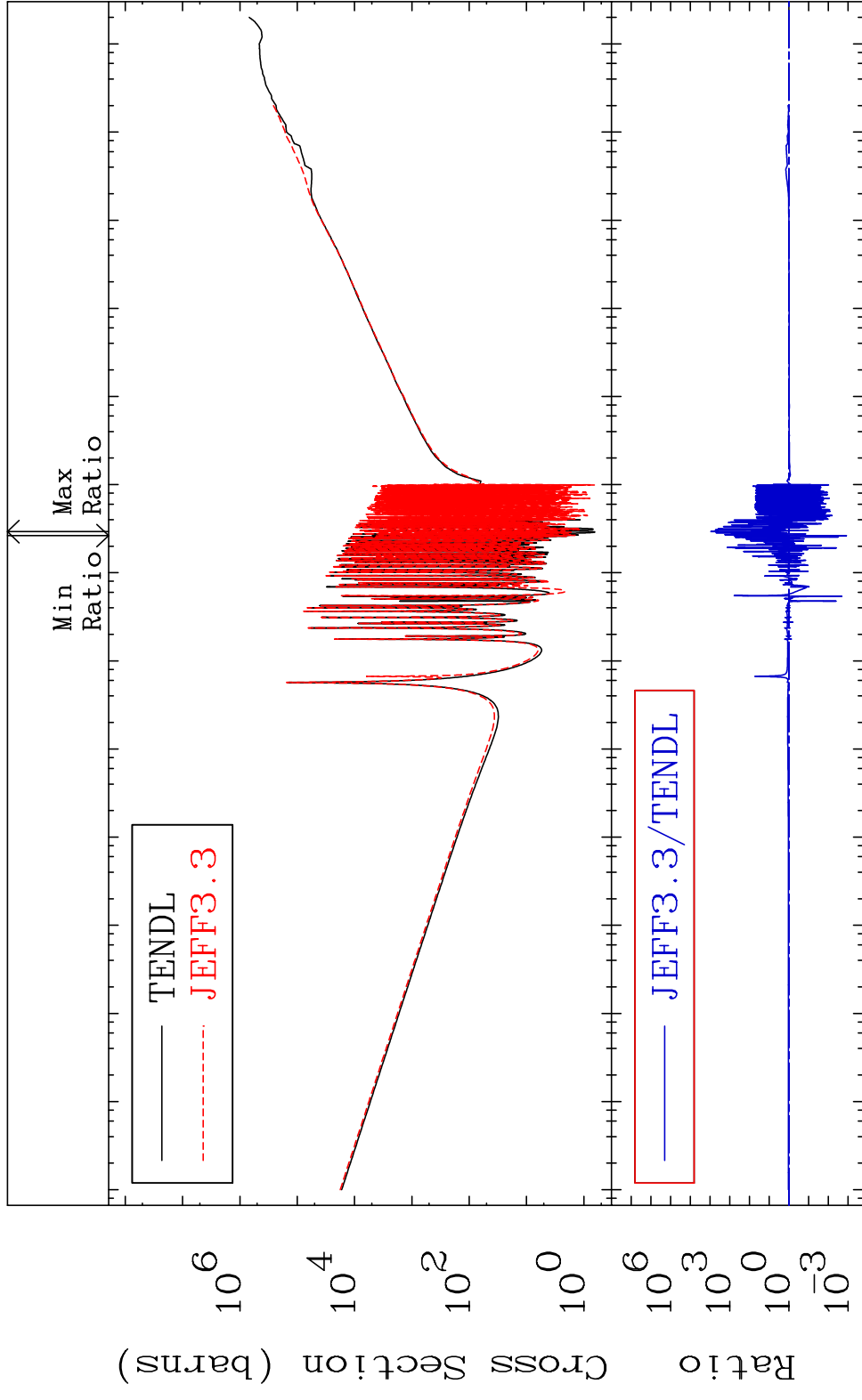


MAT 7240

Dpa total (eV-barns)

72-Hf-179

Cross Section -99.88 To 9999. %



62

Incident Energy (eV)

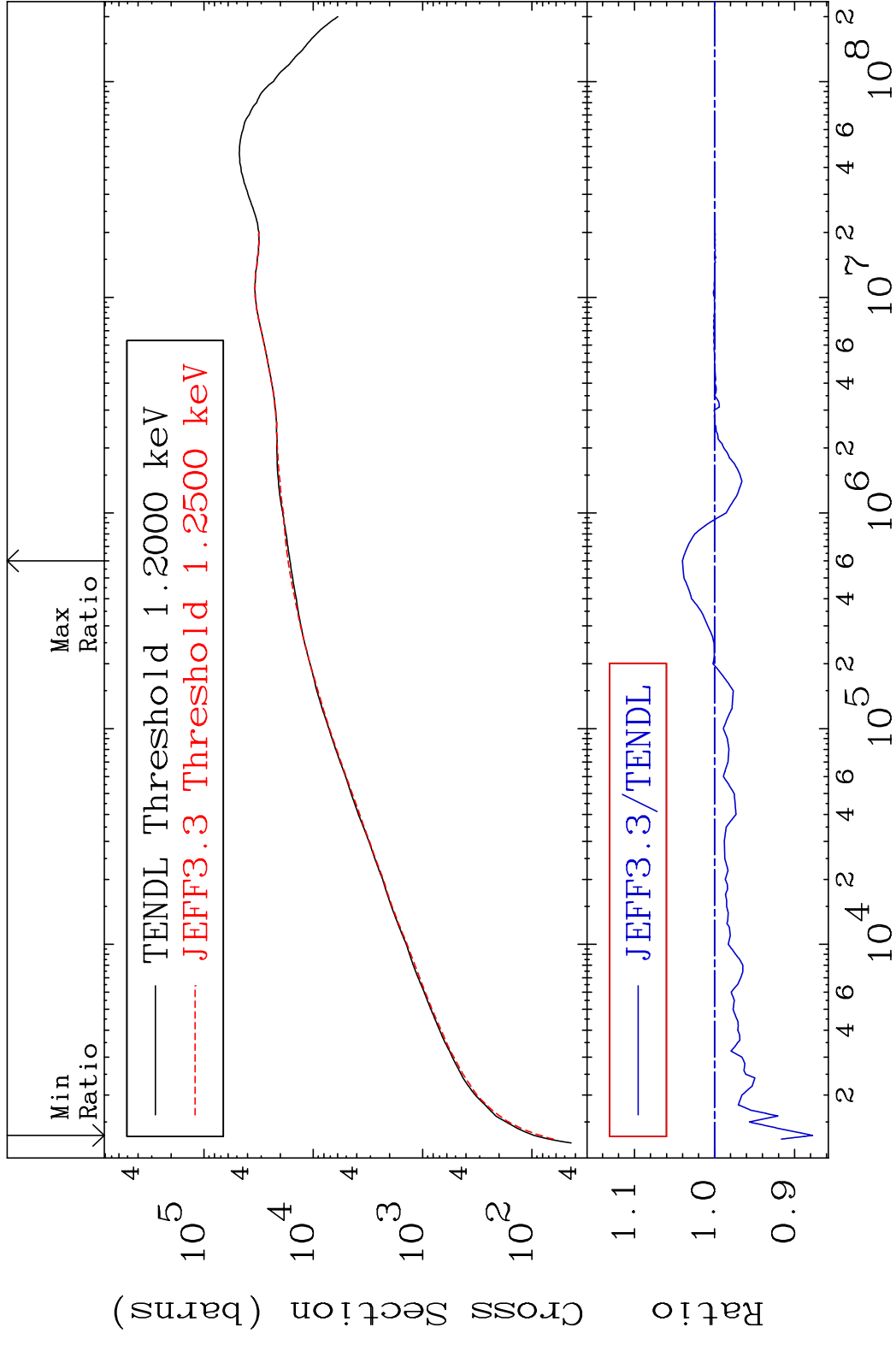
72-Hf-179

MAT 7240

Dpa elastic (mt2)

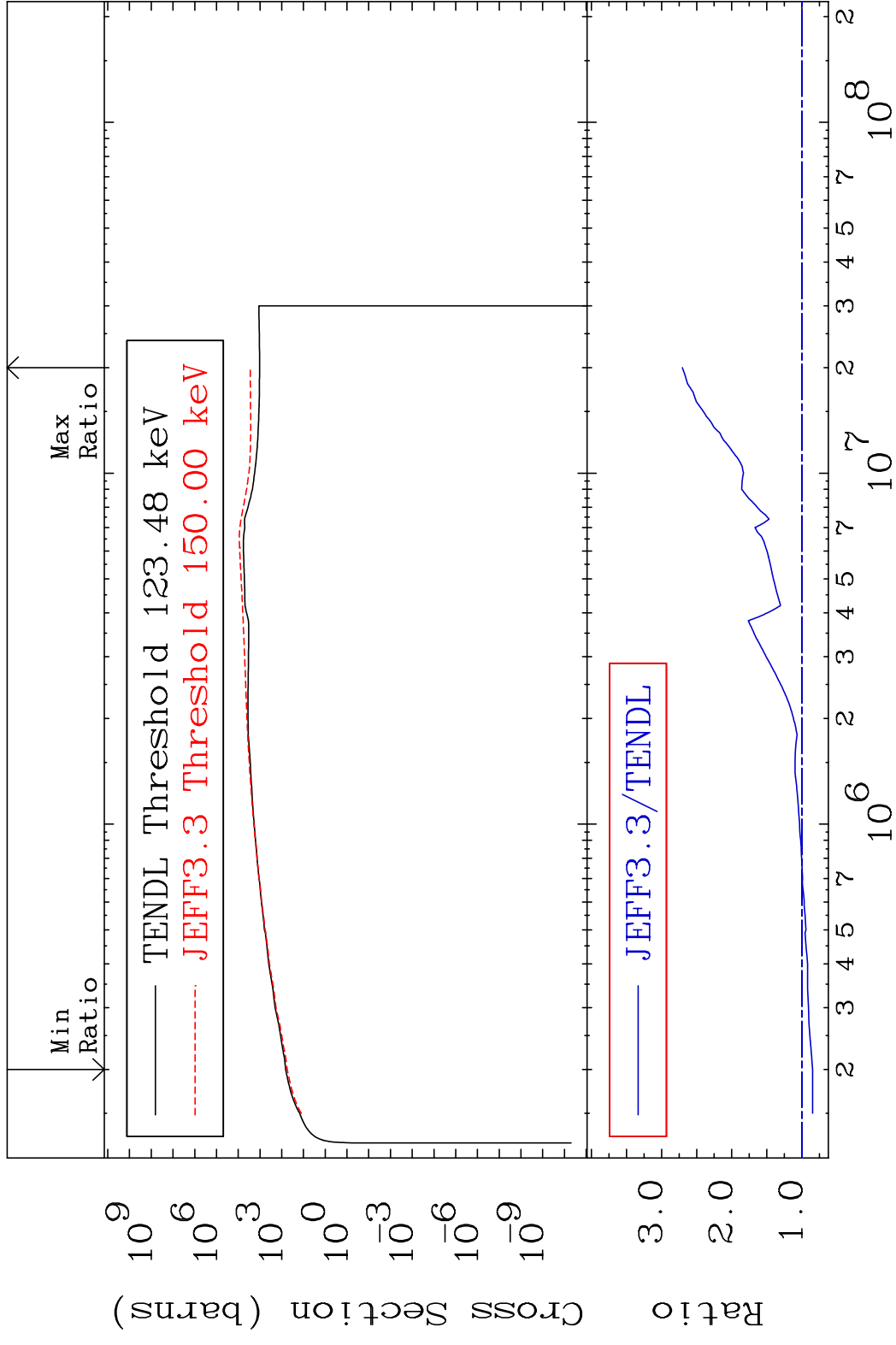
72-Hf-179

Cross Section -12.26 To 4.025 %

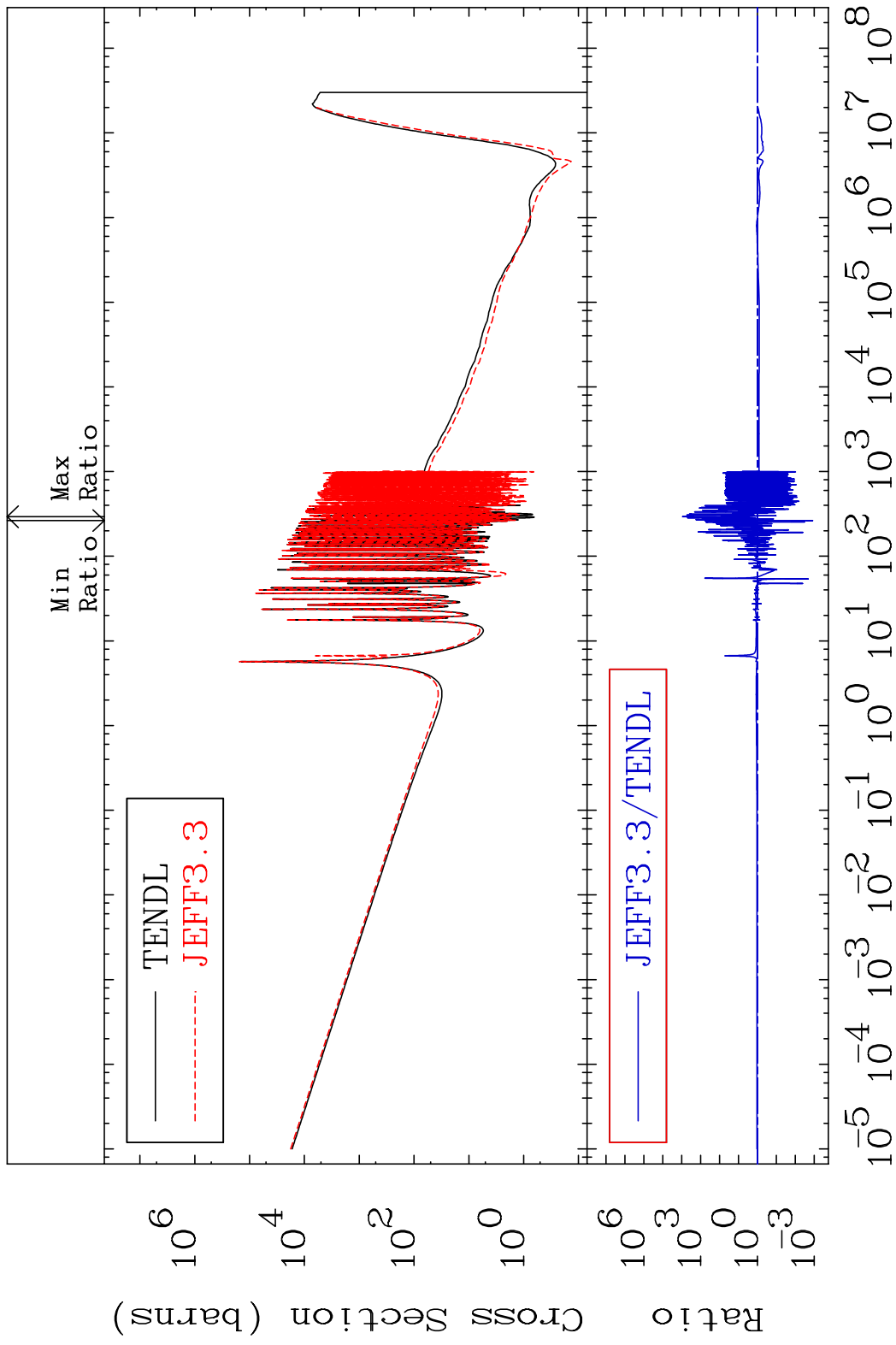




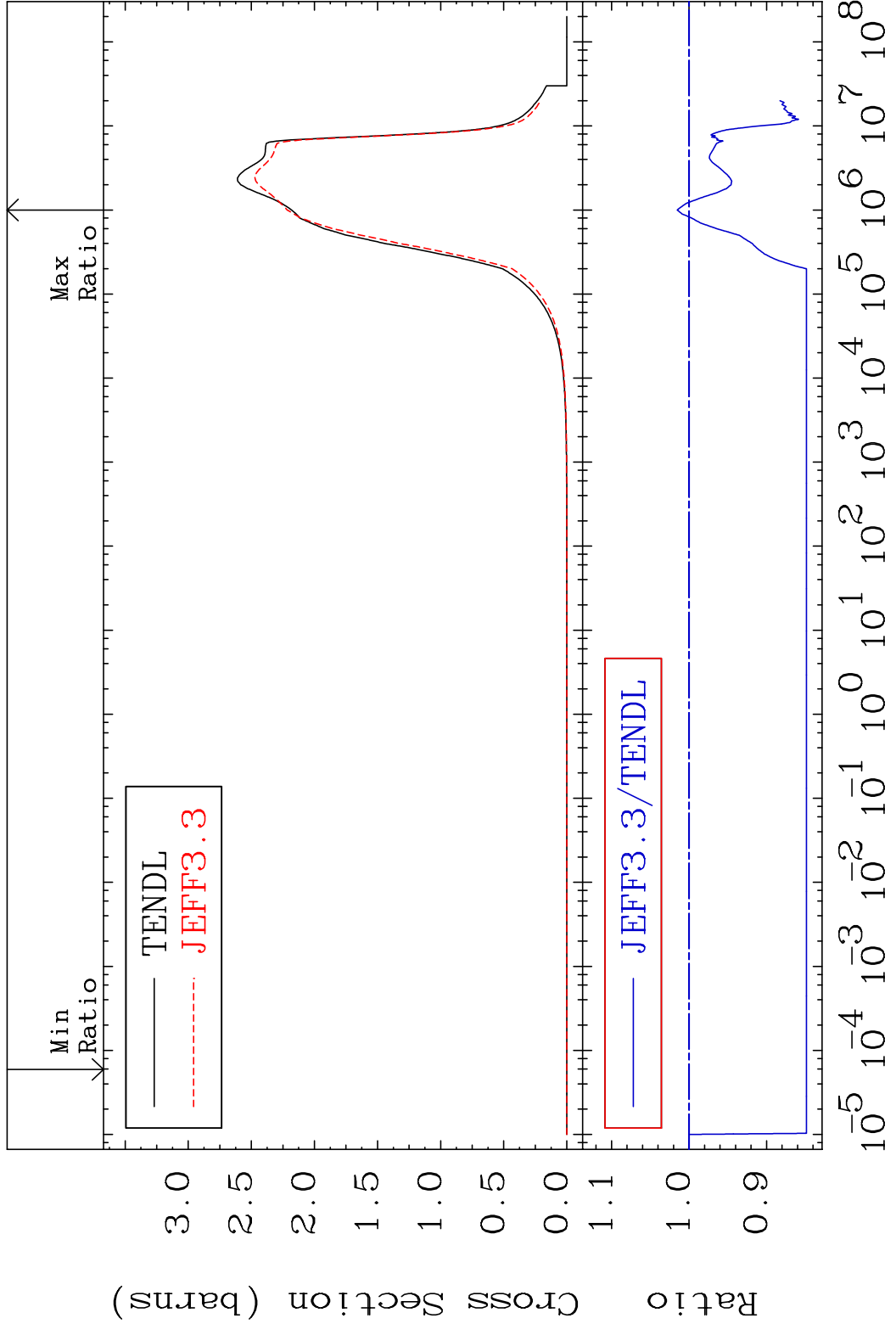
MAT 7240 Dpa inelastic (mt51-91) 72-Hf-179  
 Cross Section -15.22 To 170.4 %

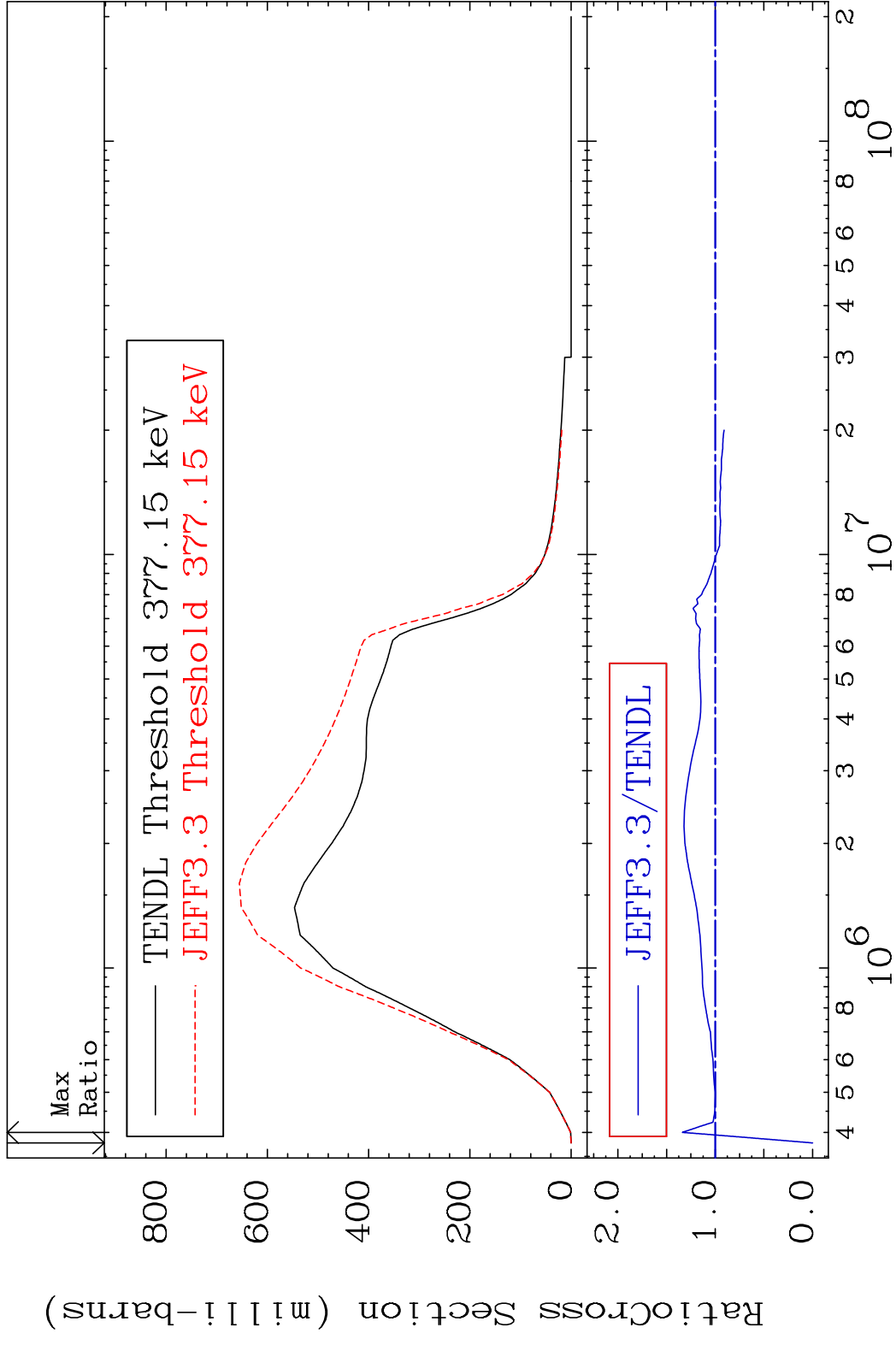


MAT 7240 Dpa disappearance (mt102 -120) 72-Hf-179  
 Cross Section -99.88 To 9999. %

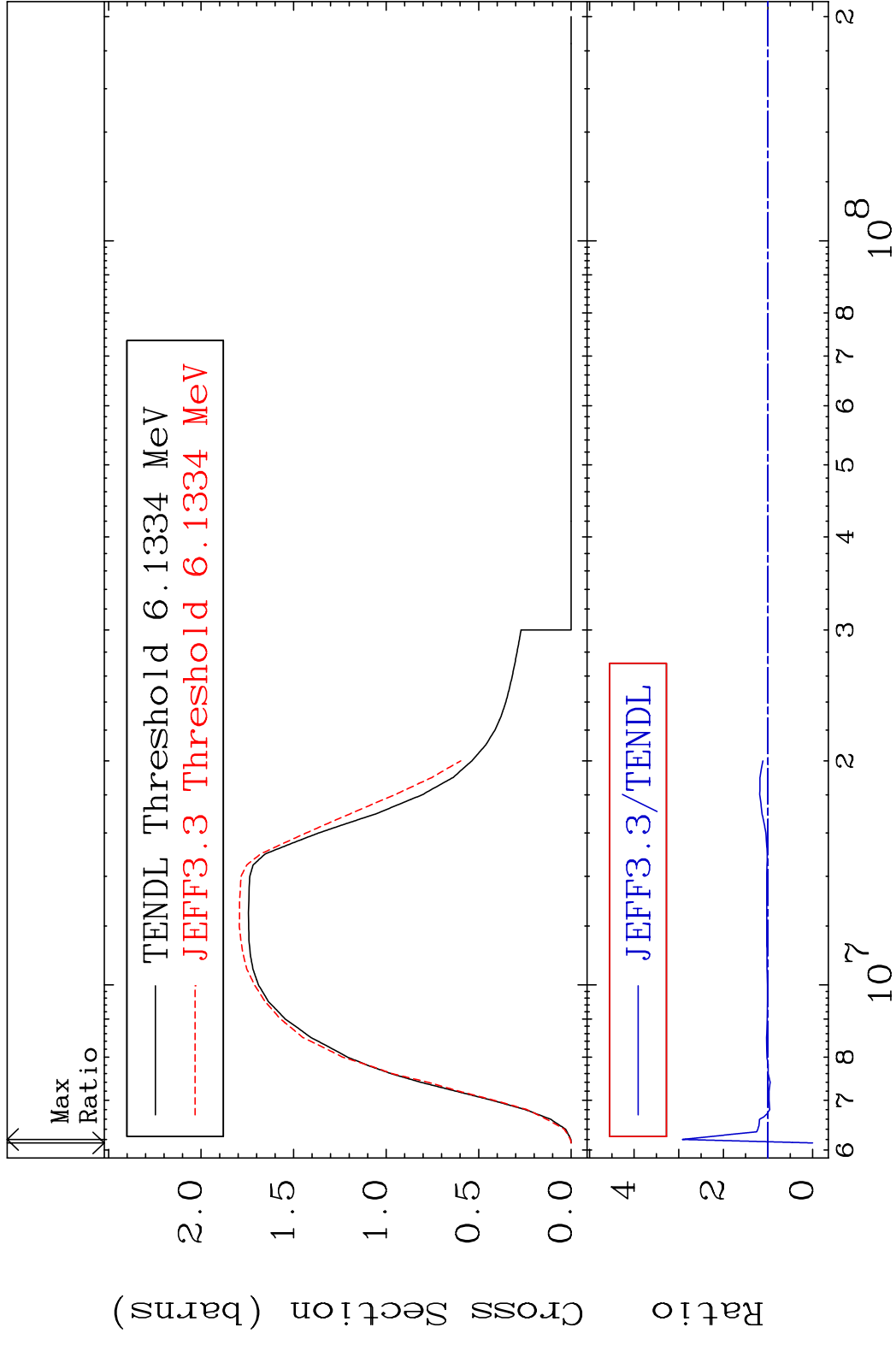


65 Incident Energy (eV) 72-Hf-179

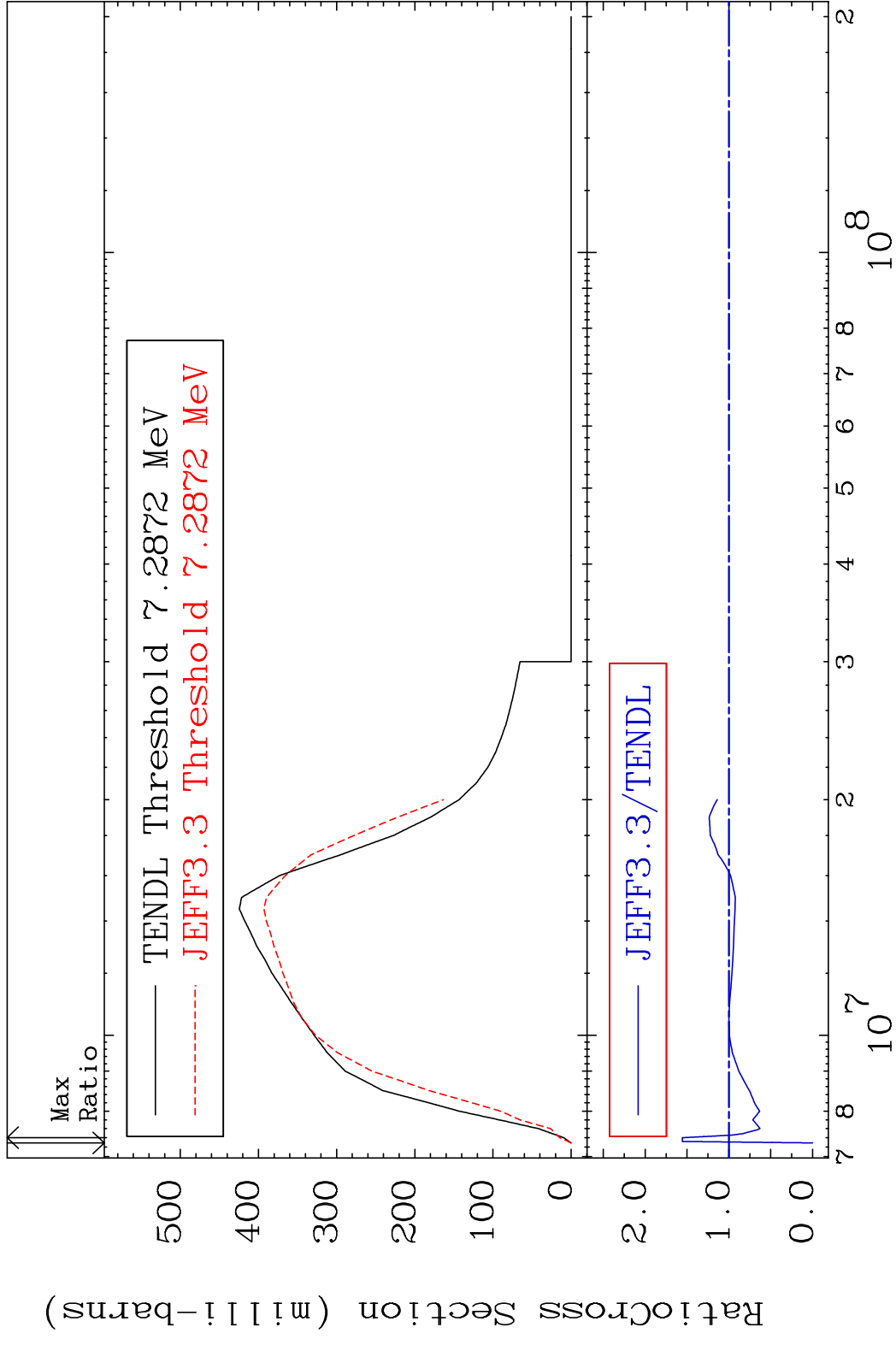




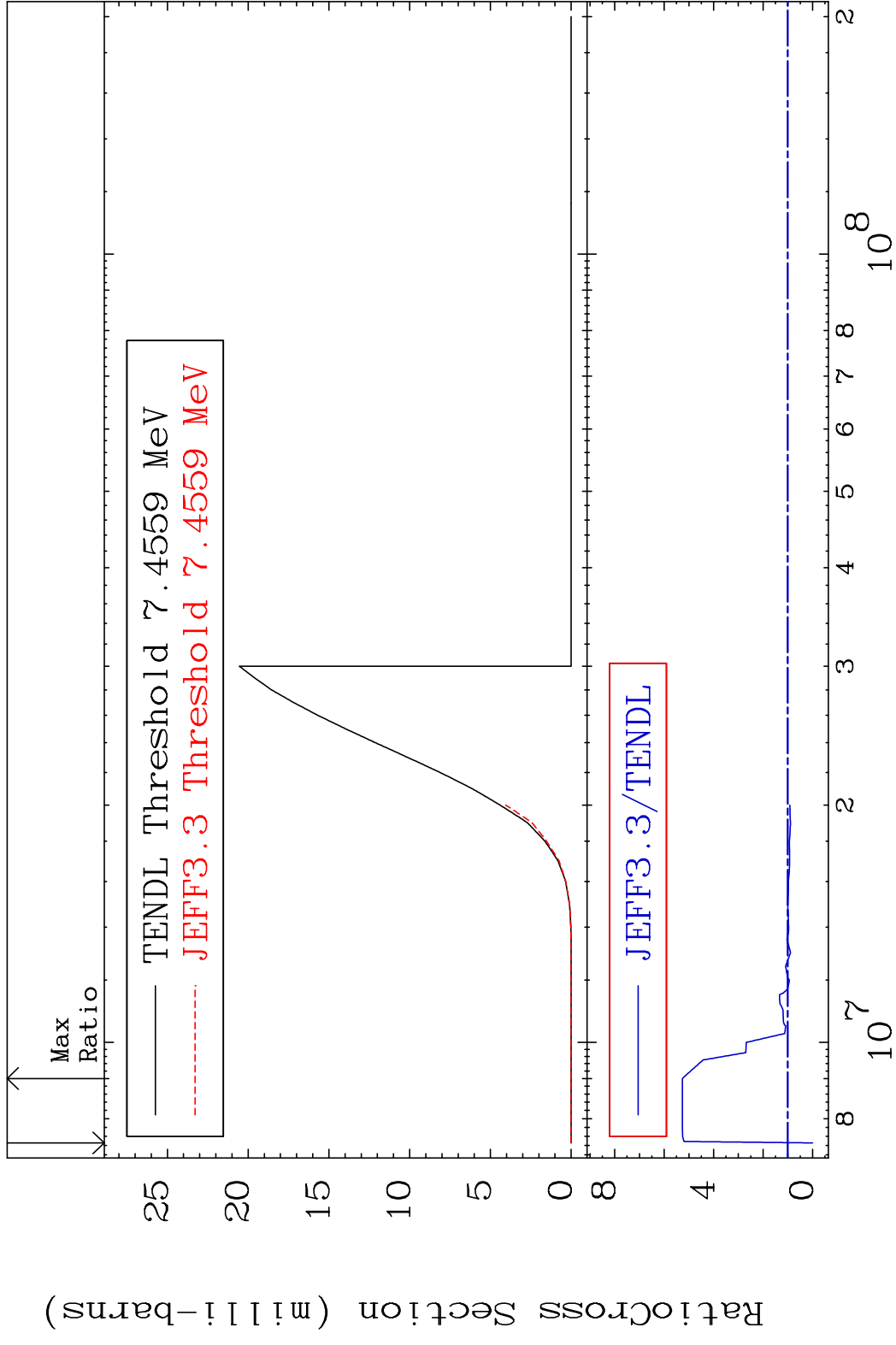
MAT 7240 (n,2n):72-Hf-178g 72-Hf-179  
 Radionuclide Production Cross Section 180.01 dth 191.9 %



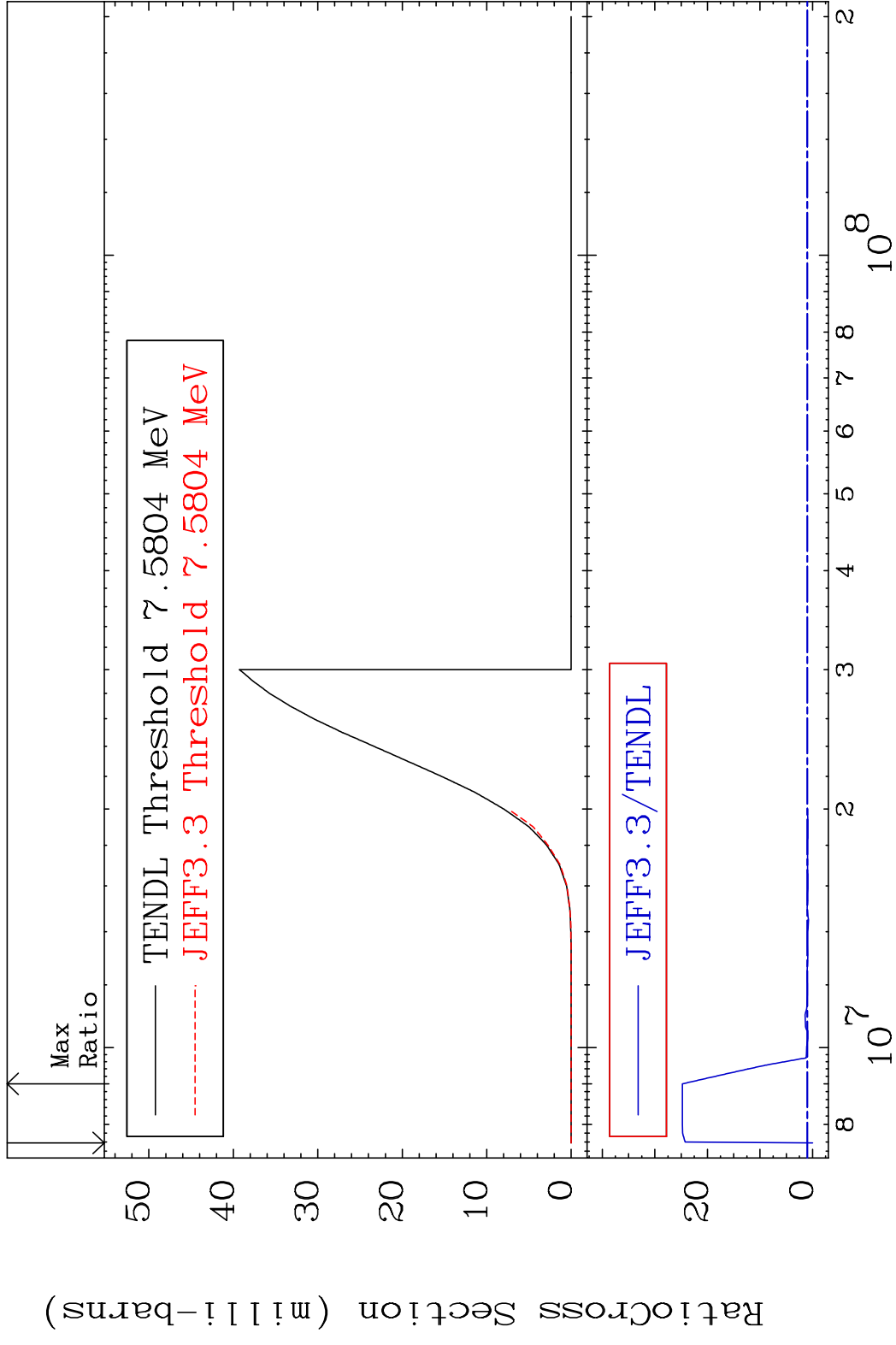
MAT 7240 (n,2n):72-Hf-178m5 72-Hf-179  
 Radionuclide Production Cross Section 180.01 dth 55.58 %



MAT 7240 (n, n') p:71-Lu-178g 72-Hf-179  
 Radionuclide Production Cross Section Ratio 426.4 %

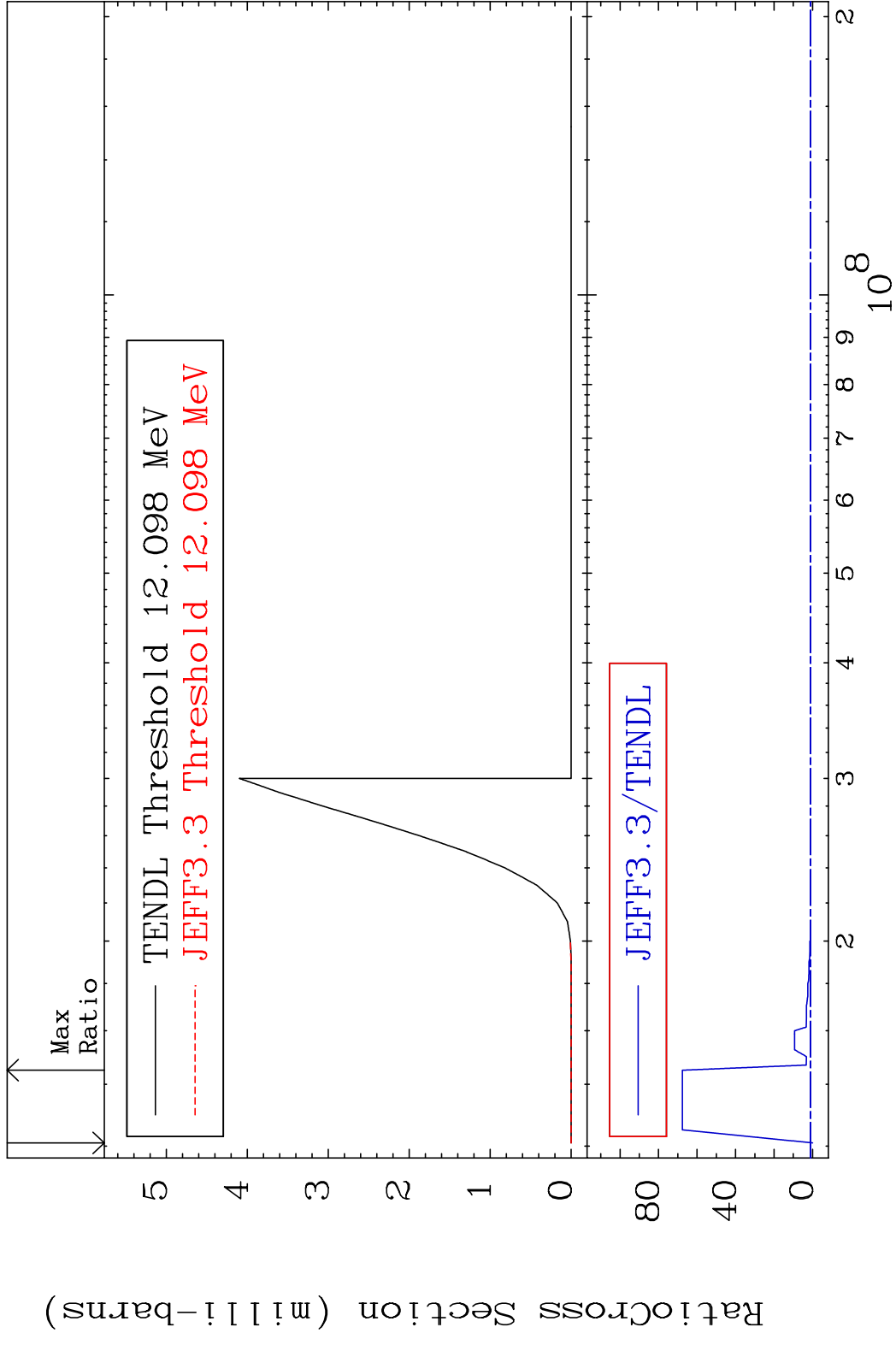


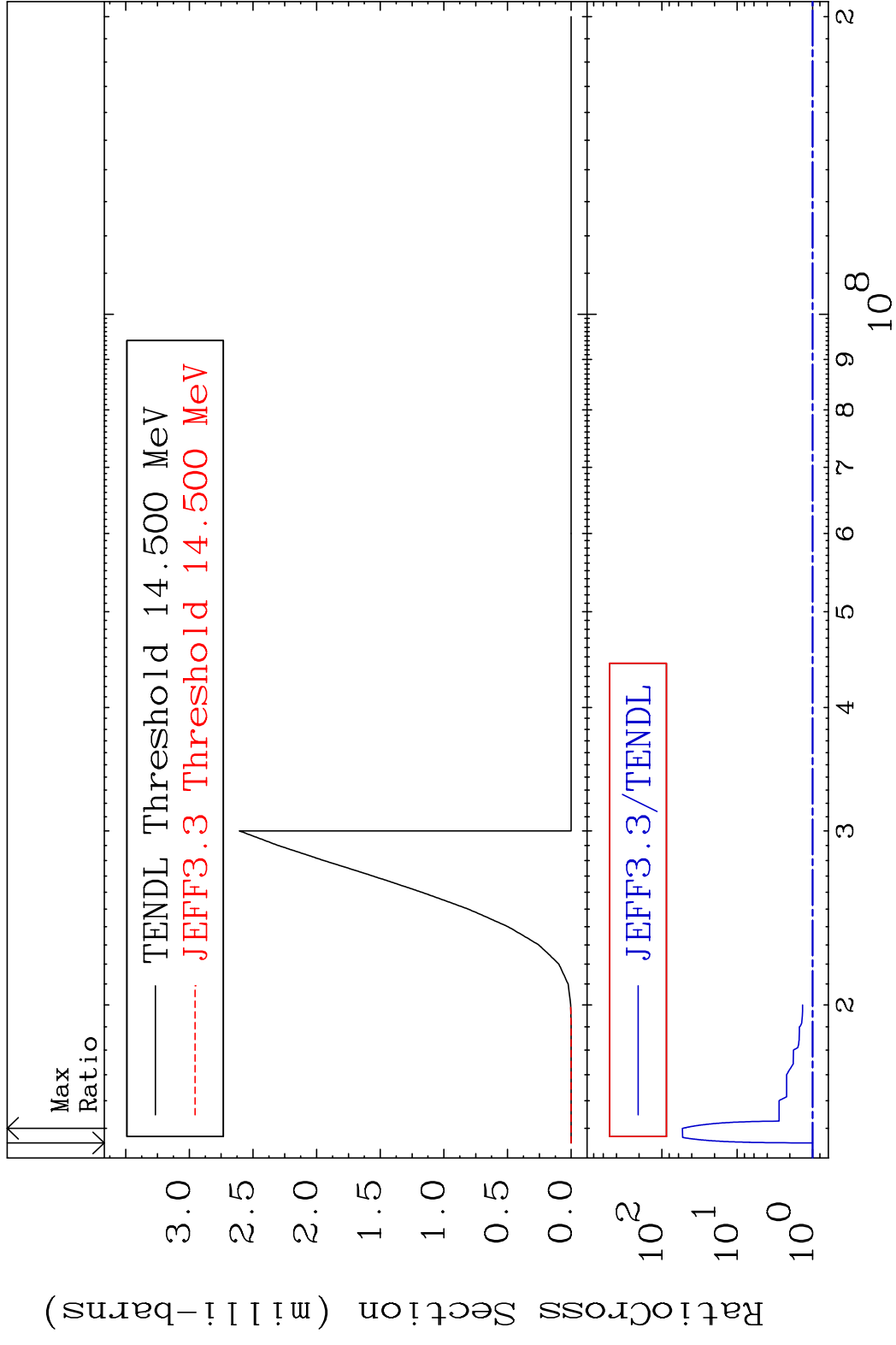
70 Incident Energy (eV) 72-Hf-179



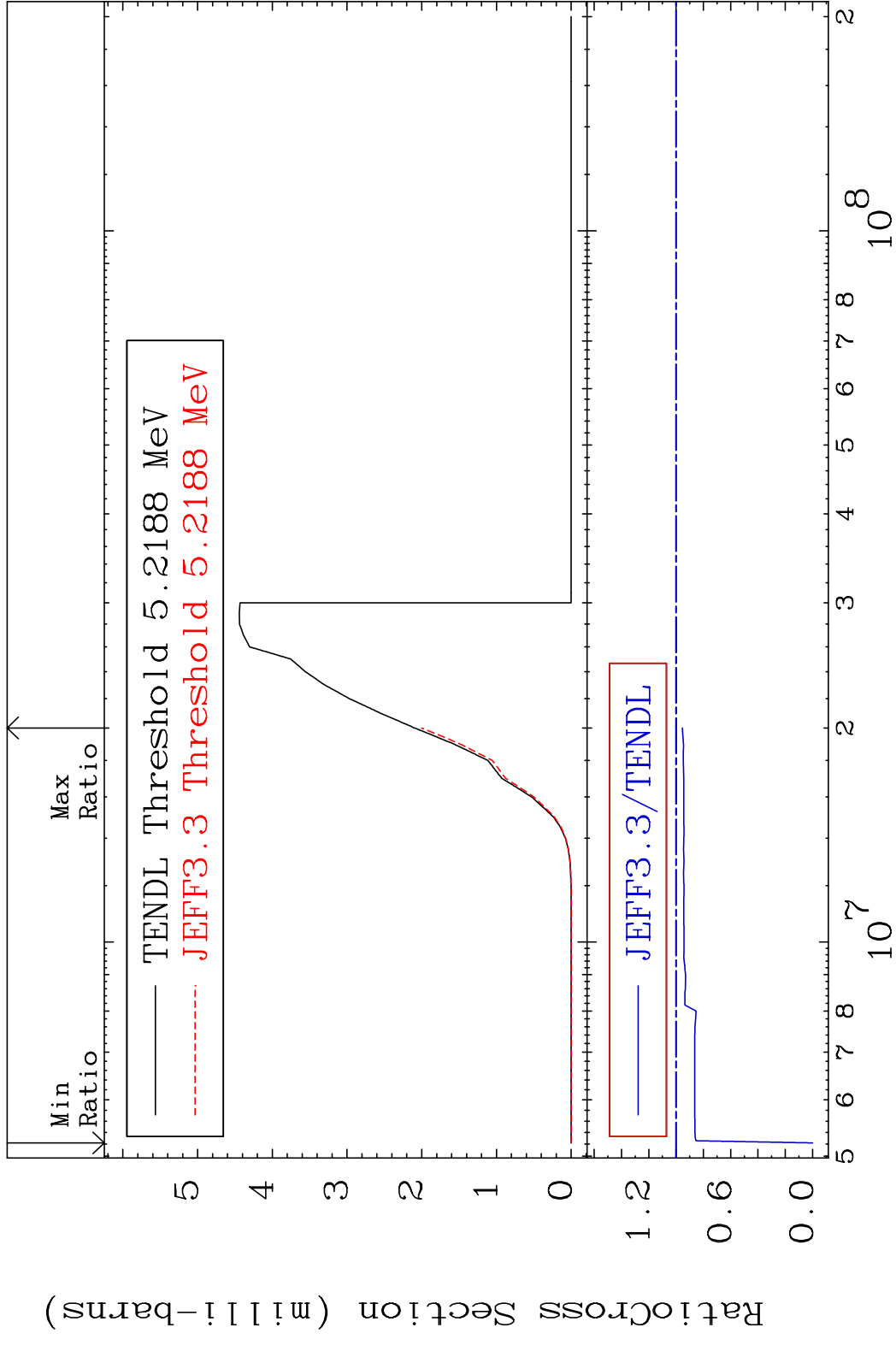


MAT 7240 (n, n') t:71-Lu-176g 72-Hf-179  
 Radionuclide Production Cross Section Ratio 6663. %

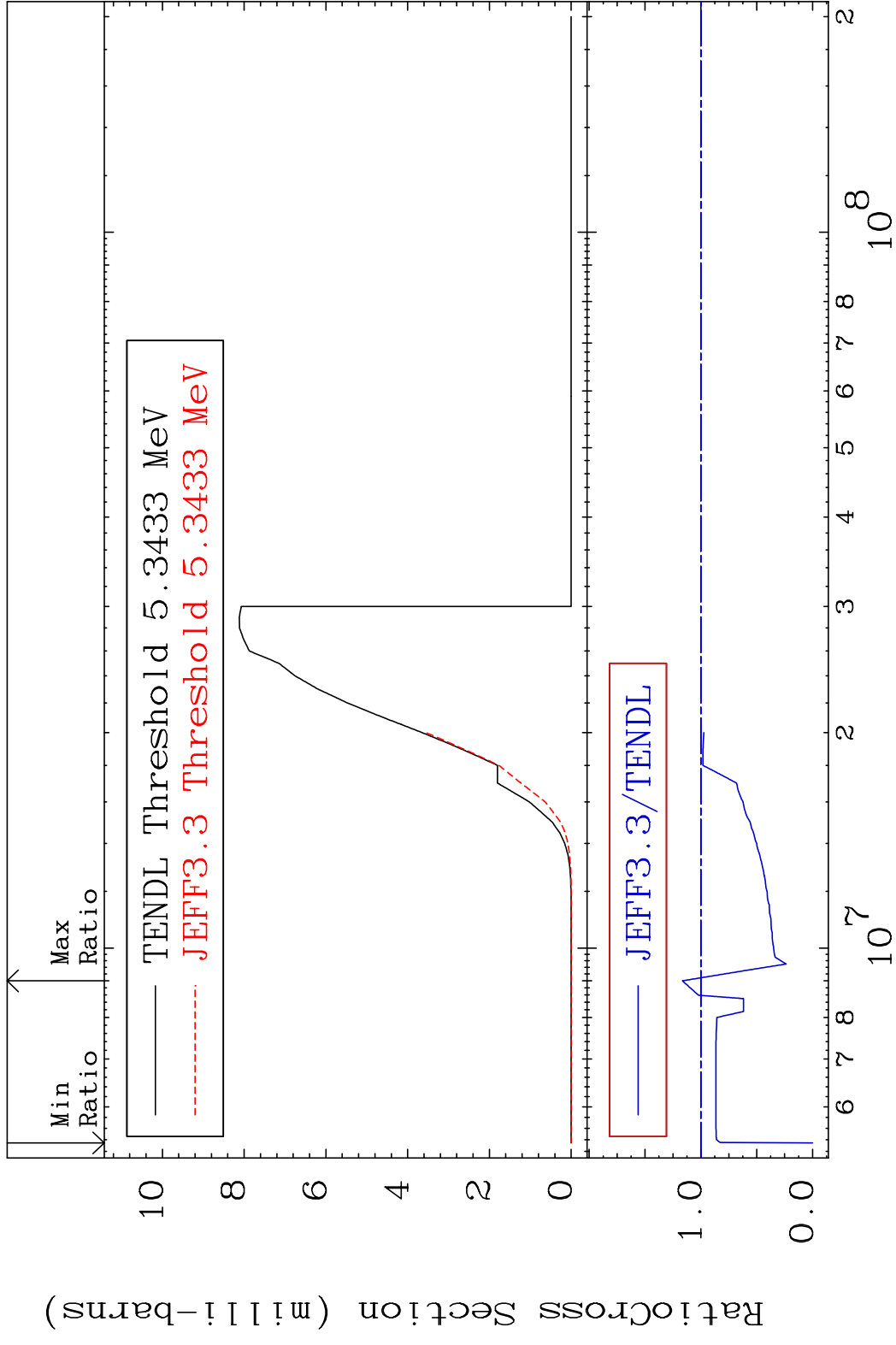




MAT 7240 (n, d):71-Lu-178g 72-Hf-179  
 Radionuclide Production Cross Section Ratio



MAT 7240 (n, d):71-Lu-178m3 72-Hf-179  
 Radionuclide Production Cross Section 180.01 dth 16.59 %



75 Incident Energy (eV) 72-Hf-179