

Program Complot  
(Version 2021-1)

by

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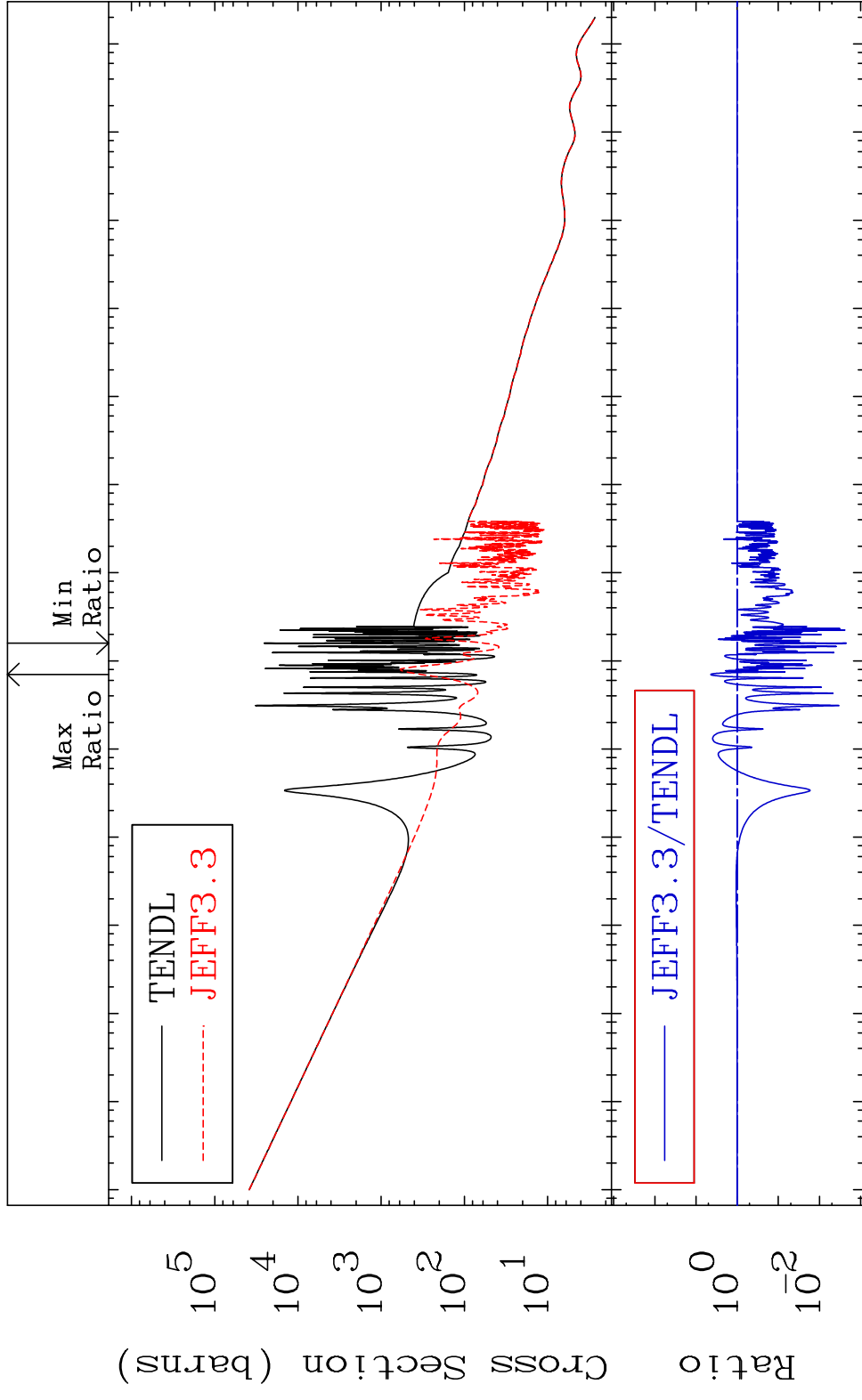
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7322

Total  
Cross Section -99.78 To 338.7 %

73-Ta-179



1

Incident Energy (eV)

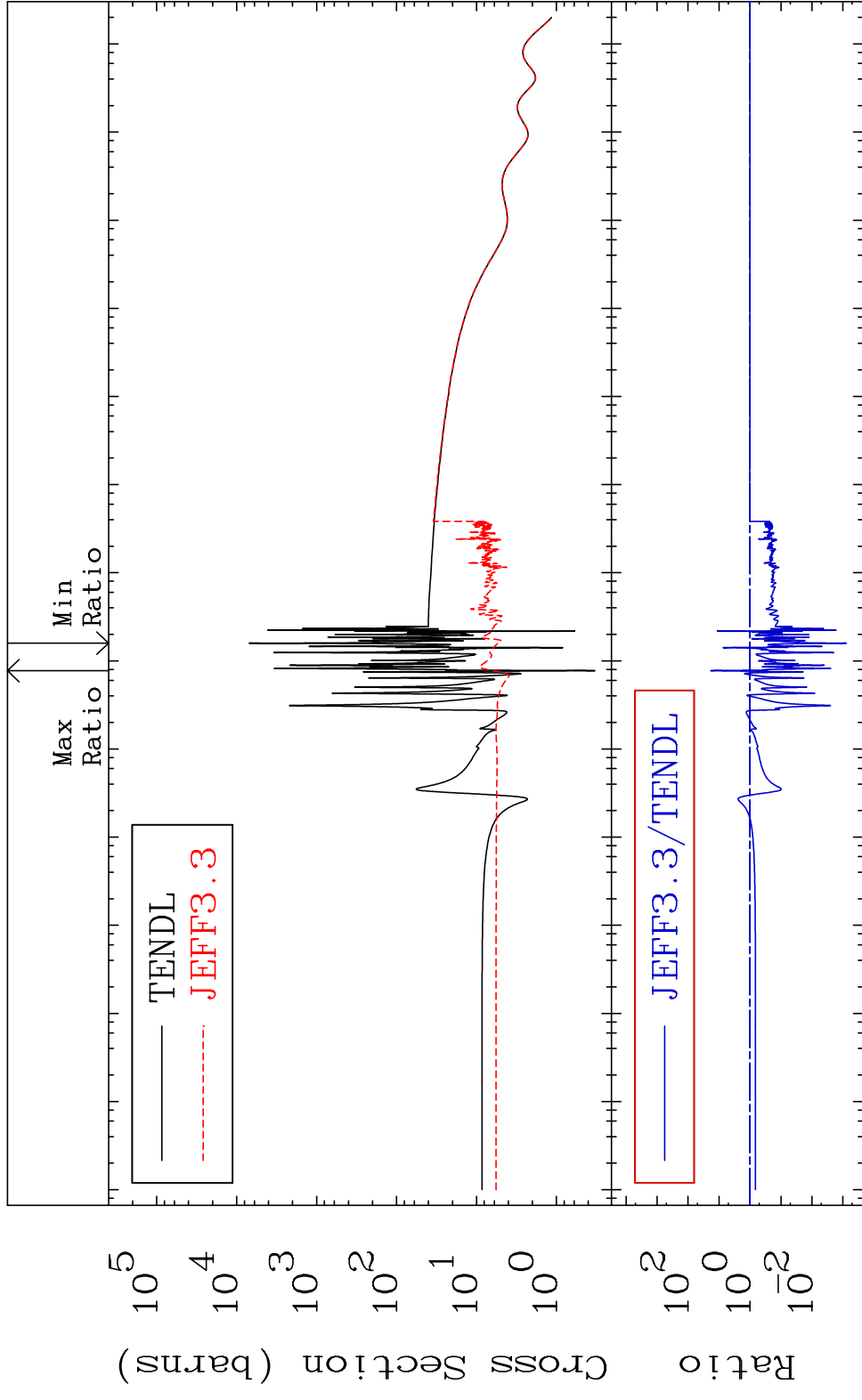
73-Ta-179

MAT 7322

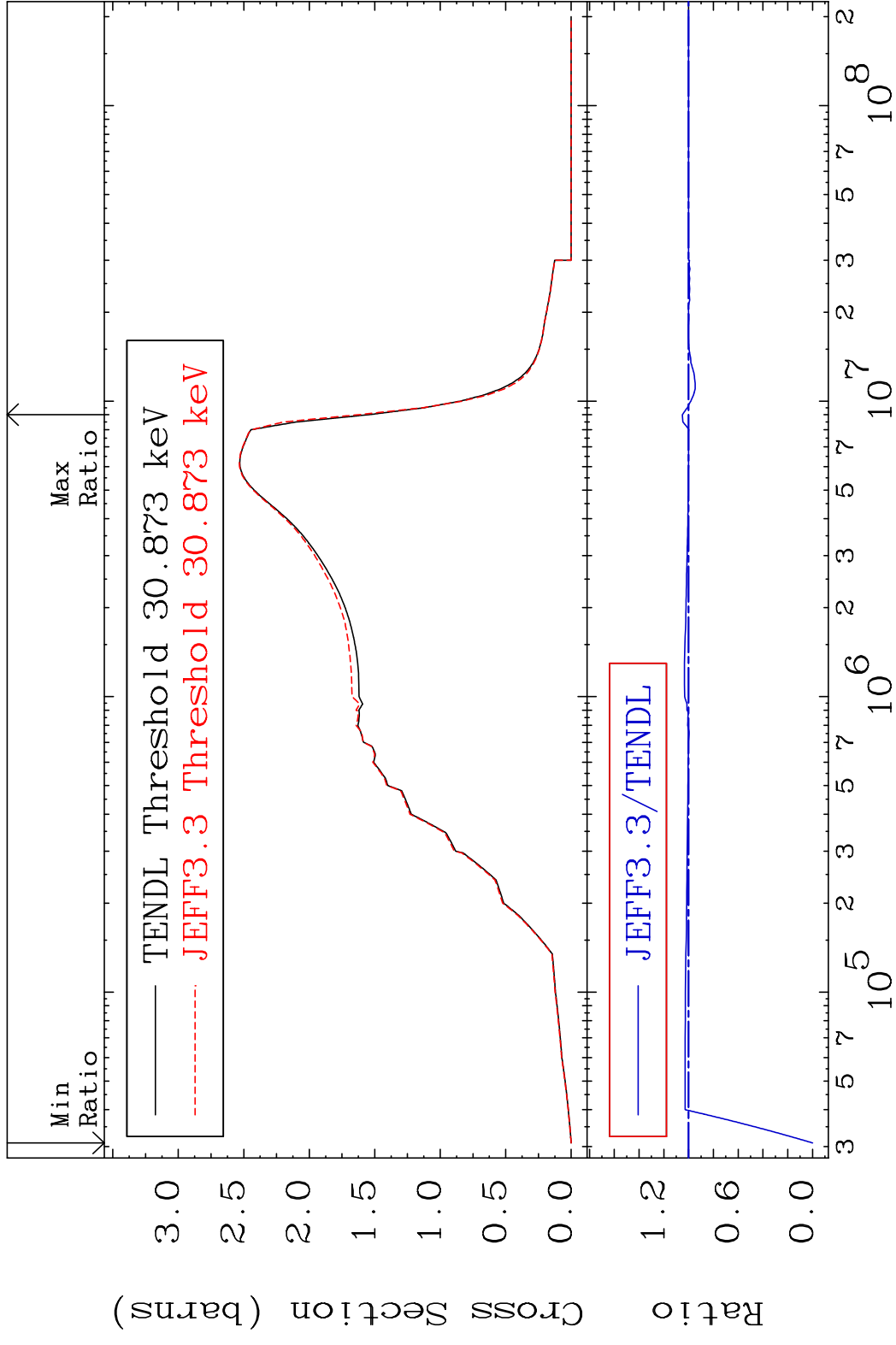
Elastic

73-Ta-179

Cross Section -99.92 To 1756. %



MAT 7322 Inelastic 73-Ta-179  
 Cross Section -100.0 To 5.053 %



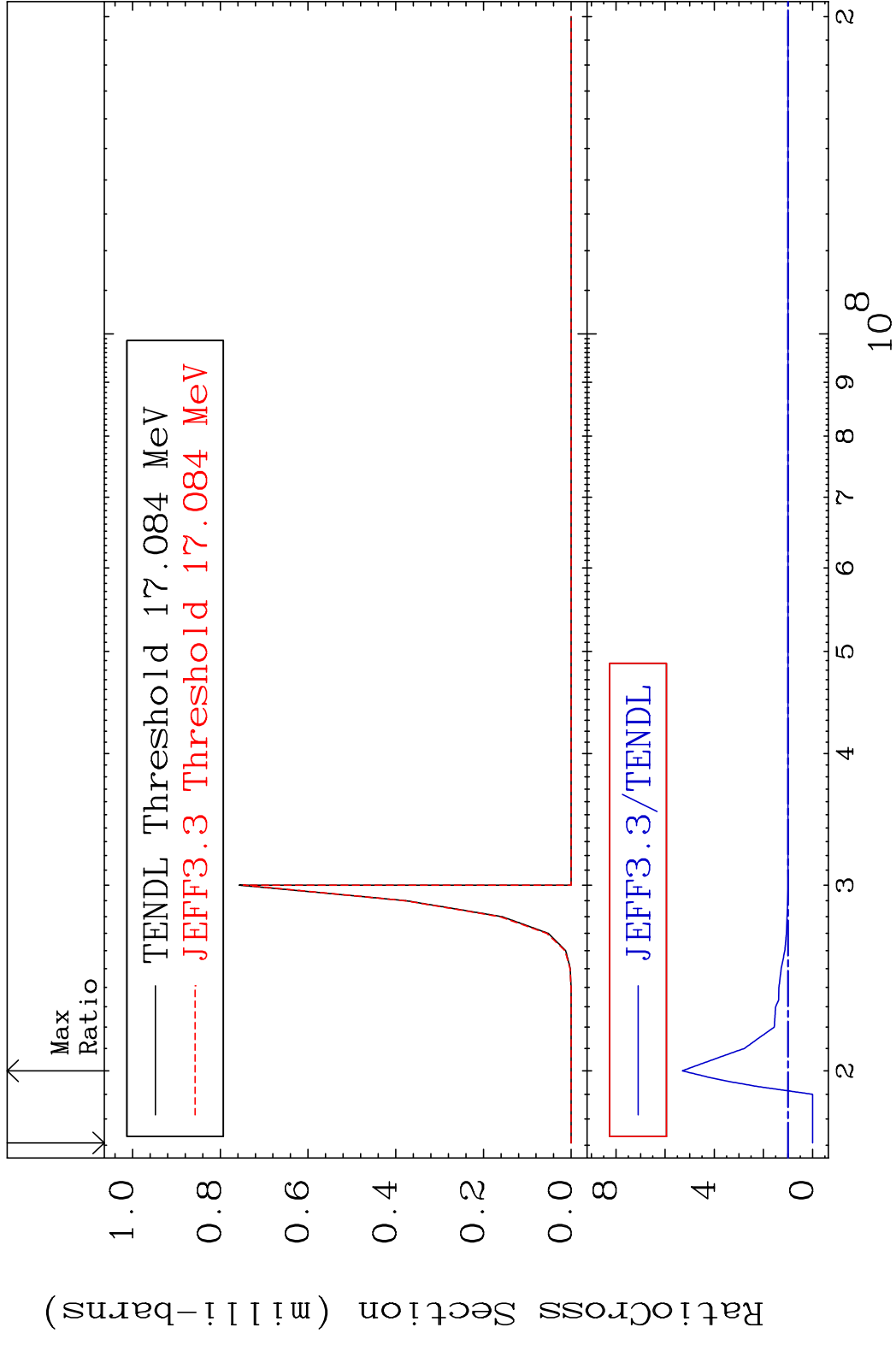
3 Incident Energy (eV) 73-Ta-179

MAT 7322

(n,2n) d

73-Ta-179

Cross Section -100.0 To 429.9 %



4

Incident Energy (eV)

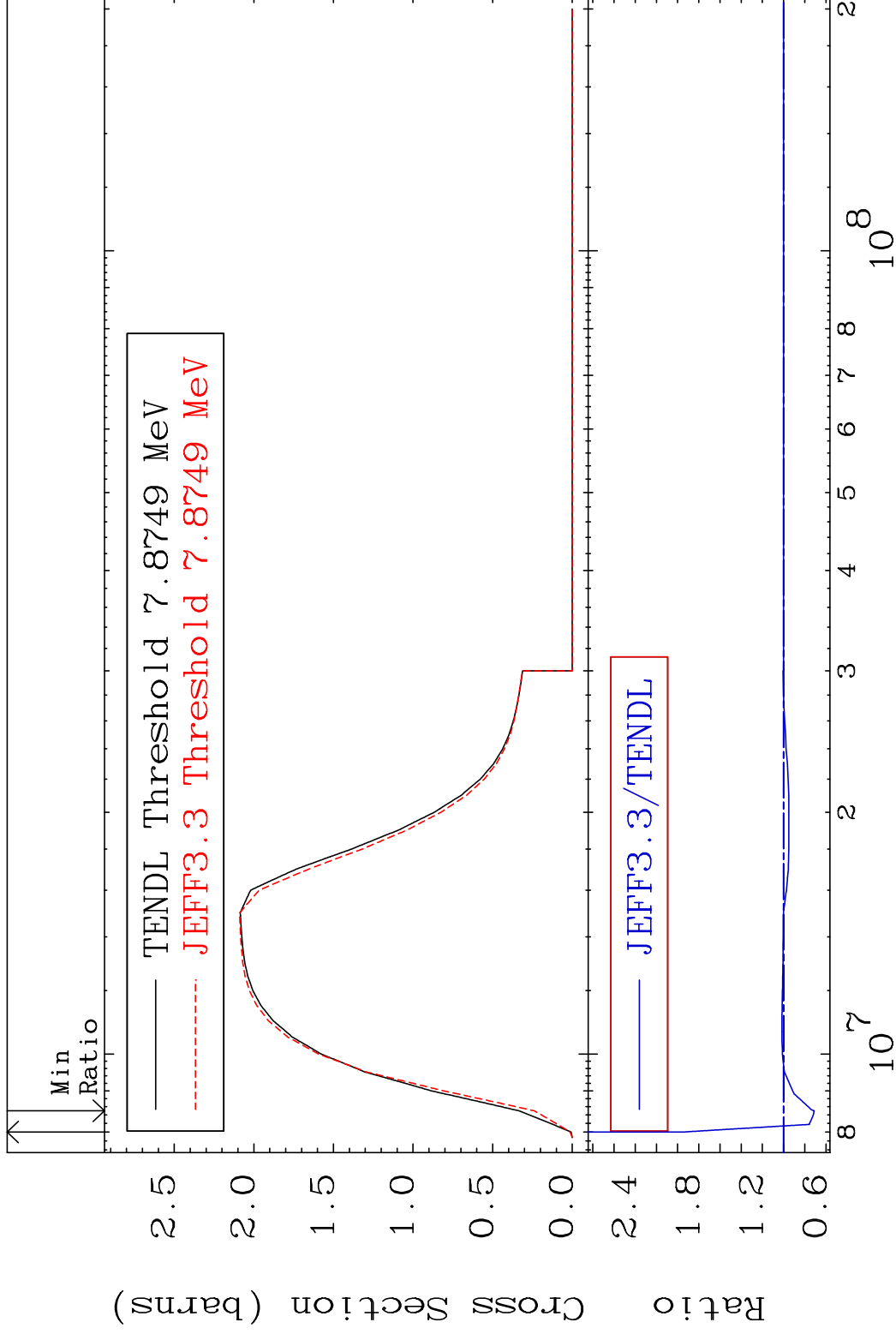
73-Ta-179

MAT 7322

(n,2n)

73-Ta-179

Cross Section -28.78 To 94.28 %



5

Incident Energy (eV)

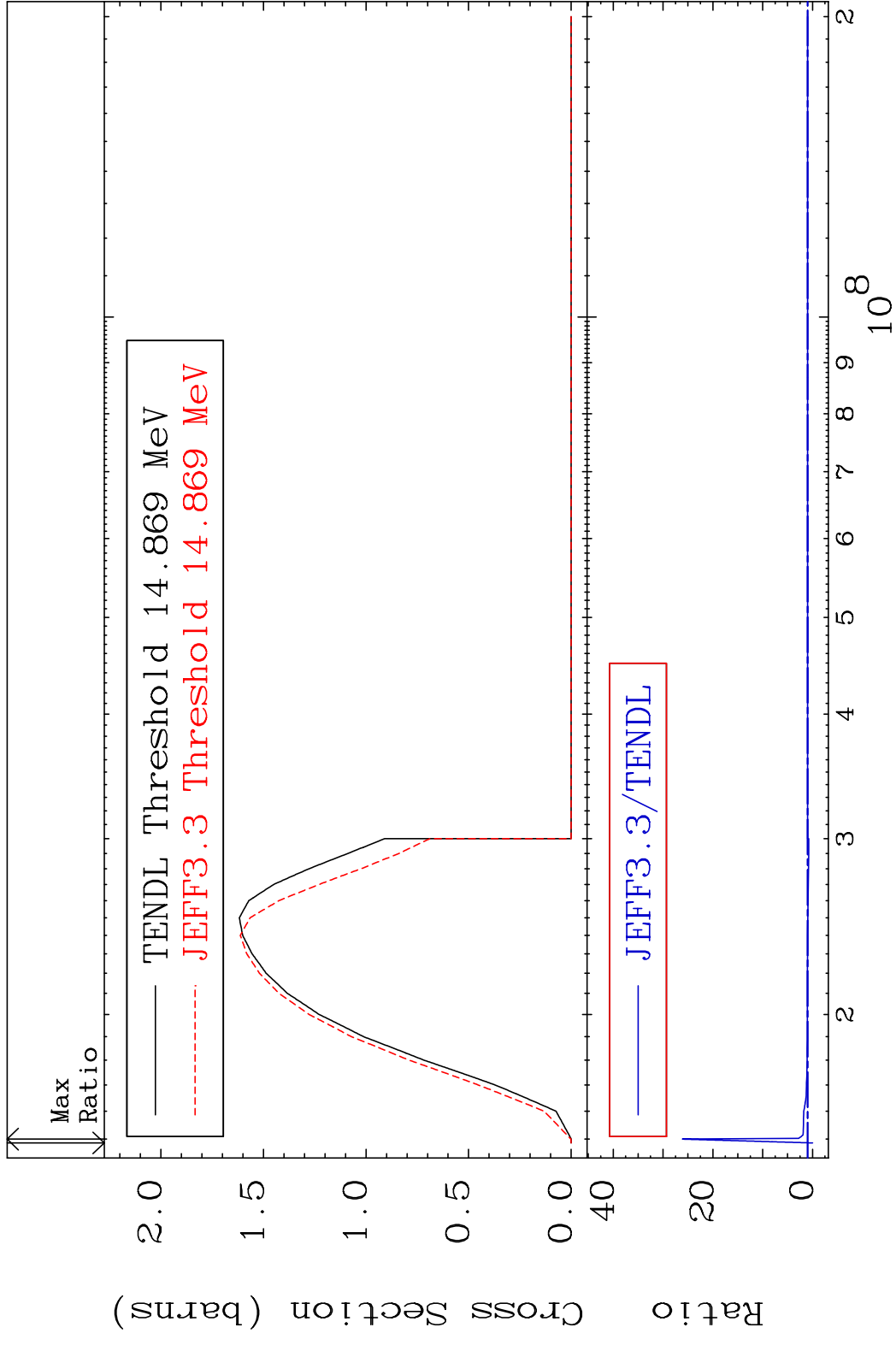
73-Ta-179

MAT 7322

(n,3n)

73-Ta-179

Cross Section -100.0 To 2512. %



6

Incident Energy (eV)

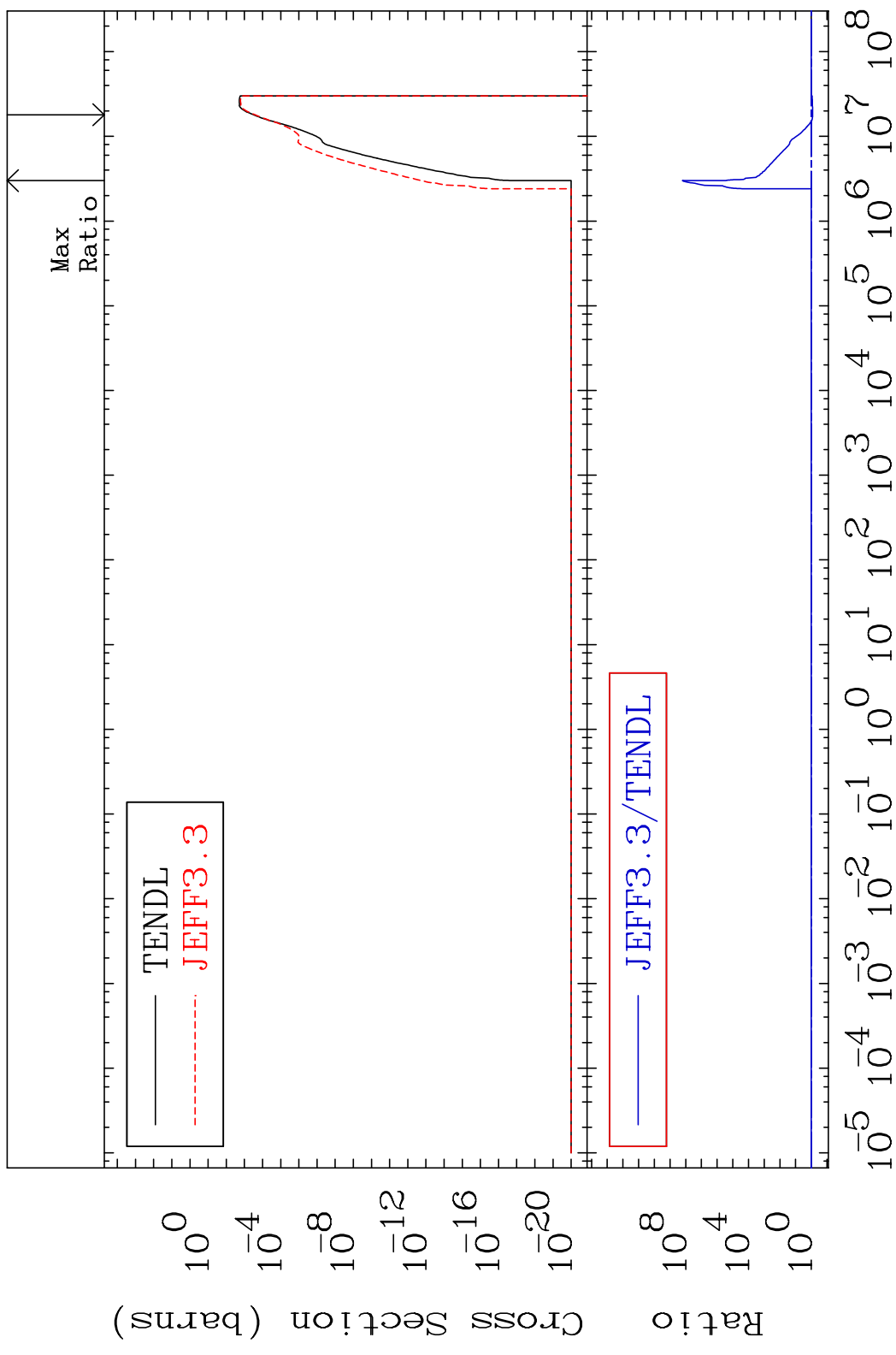
73-Ta-179

MAT 7322

(n, n')  $\alpha$

73-Ta-179

Cross Section -16.94 To 9999. %



7

Incident Energy (eV)

73-Ta-179

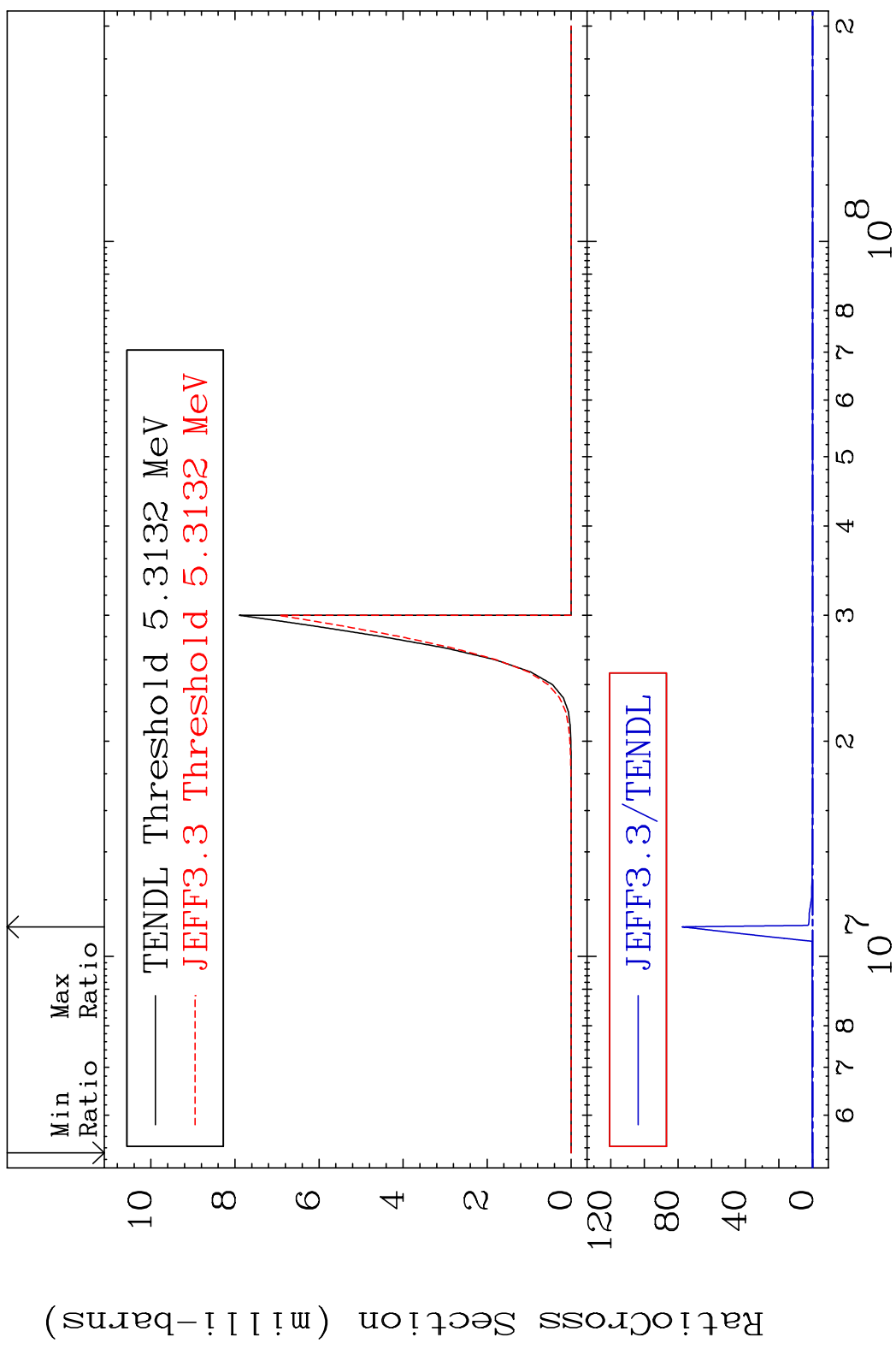


MAT 7322

(n,2n)  $\alpha$

73-Ta-179

Cross Section -100.0 To 9999. %

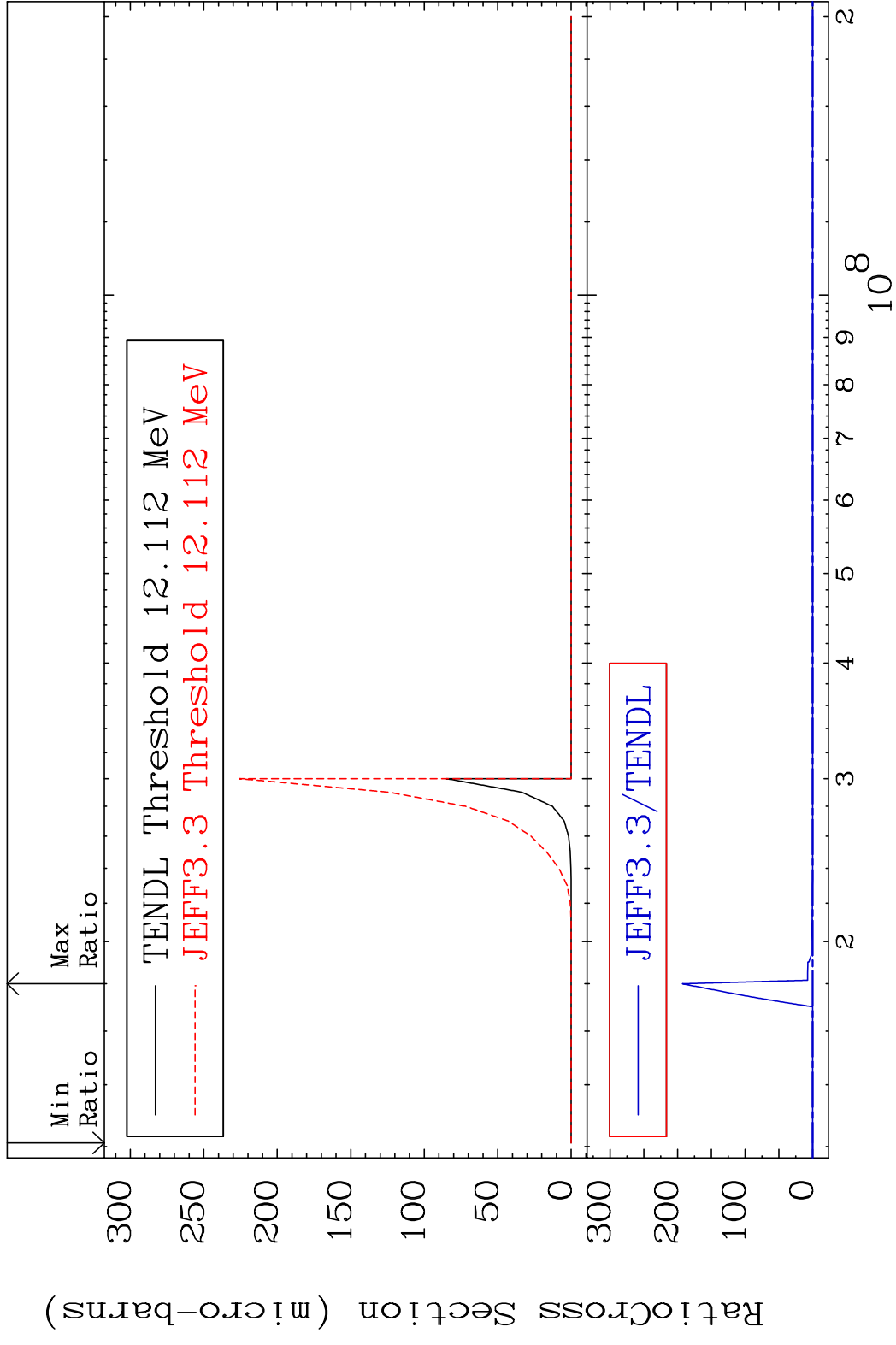


8

Incident Energy (eV)

73-Ta-179

MAT 7322 (n,3n)  $\alpha$  73-Ta-179  
 Cross Section -100.0 To 9999. %

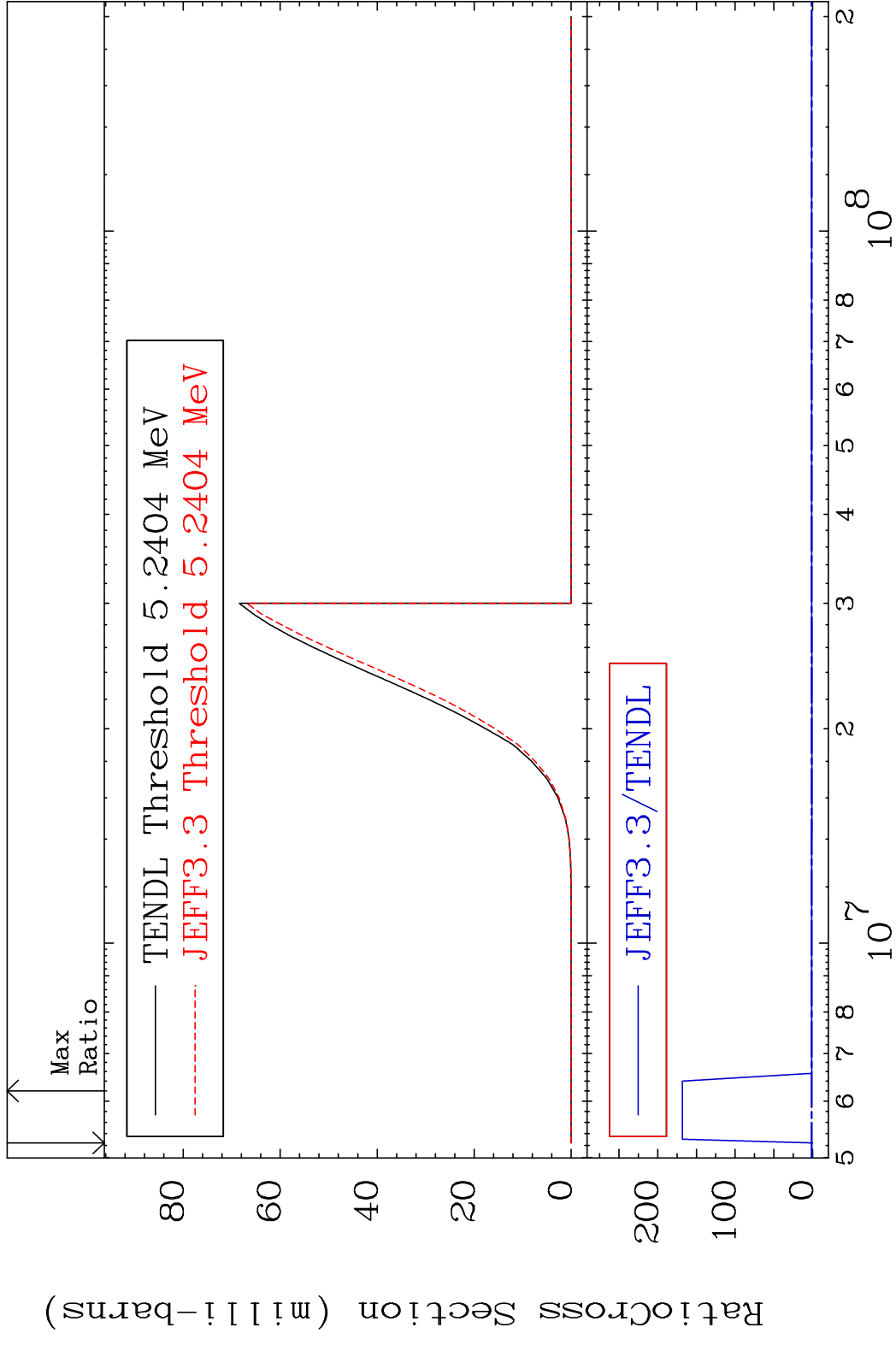


MAT 7322

73-Ta-179

(n, n') p

Cross Section -100.0 To 9999. %



10

Incident Energy (eV)

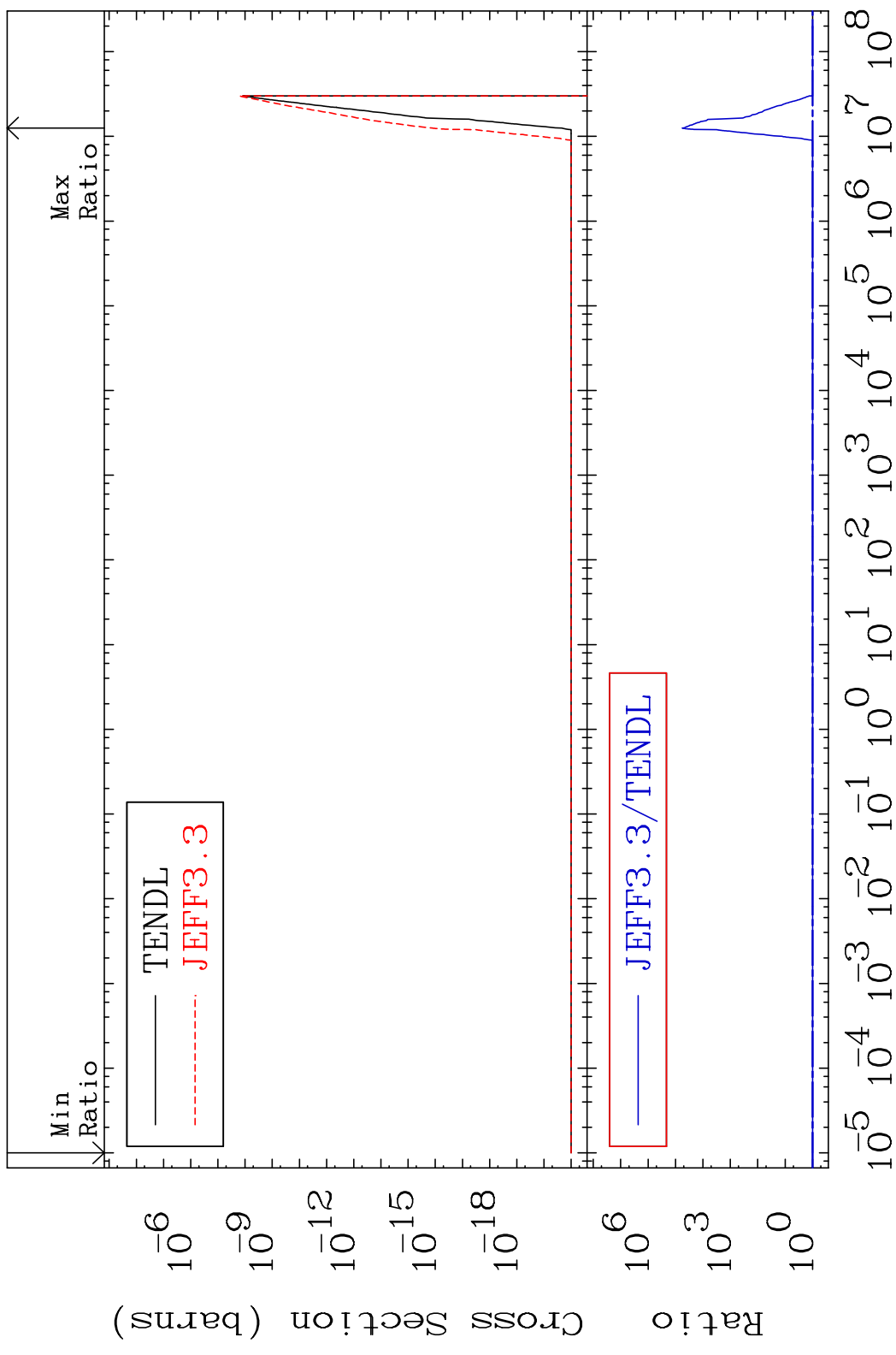
73-Ta-179

MAT 7322

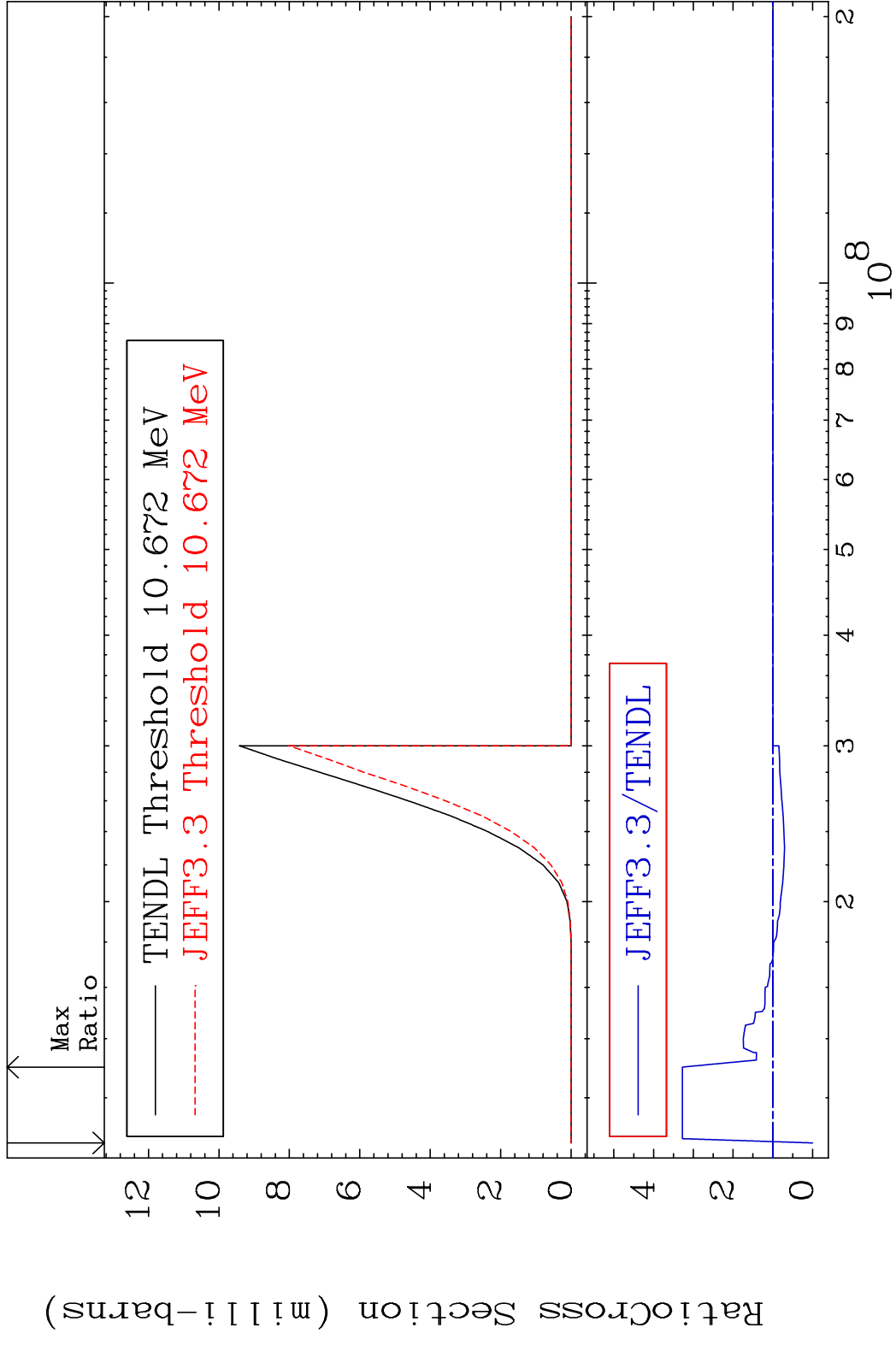
(n, n') 2α

73-Ta-179

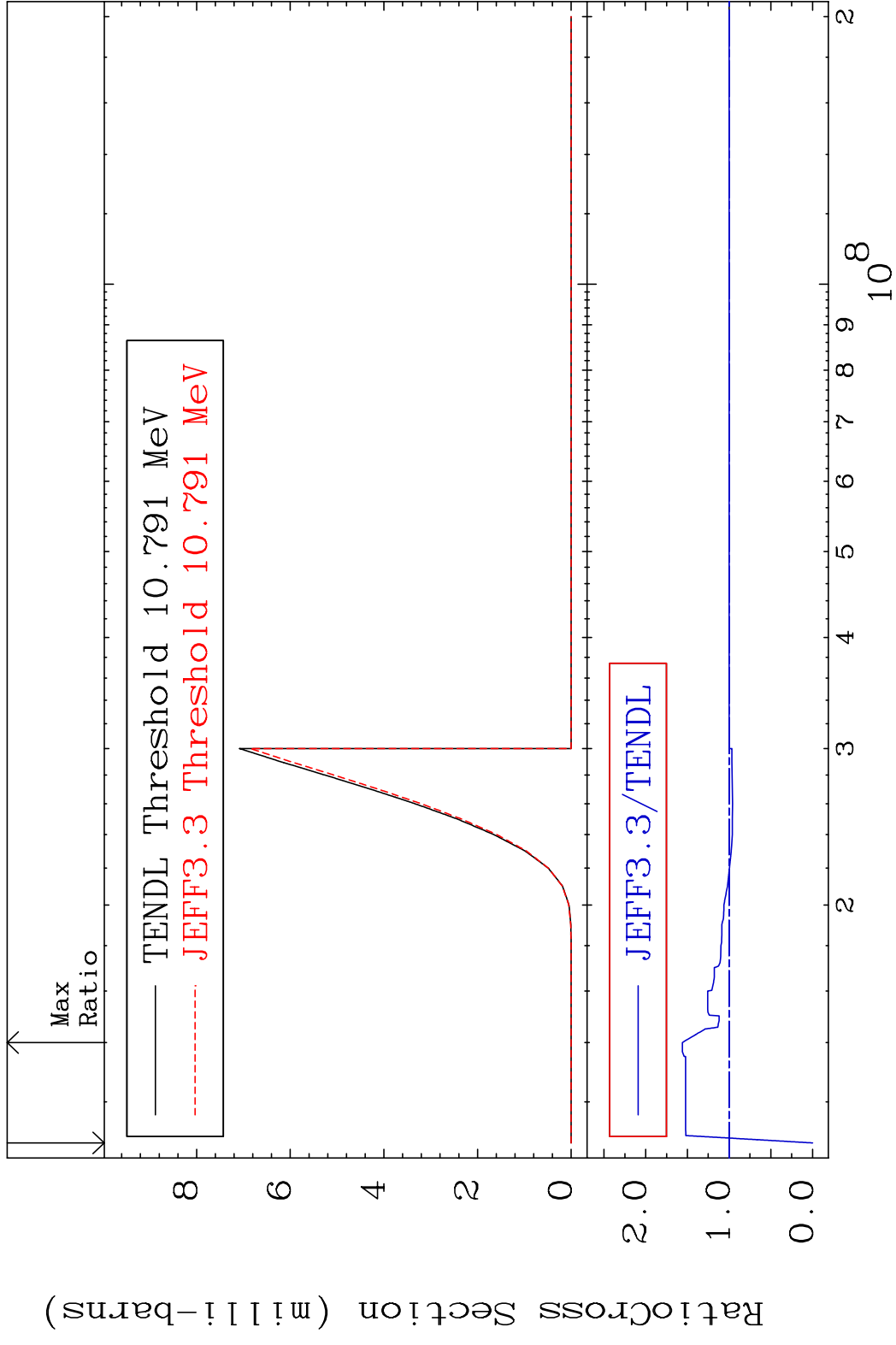
Cross Section 0.000 To 9999. %



MAT 7322 (n, n') d 73-Ta-179  
 Cross Section -100.0 To 227.6 %



MAT 7322 (n, n') t 73-Ta-179  
 Cross Section -100.0 To 56.06 %

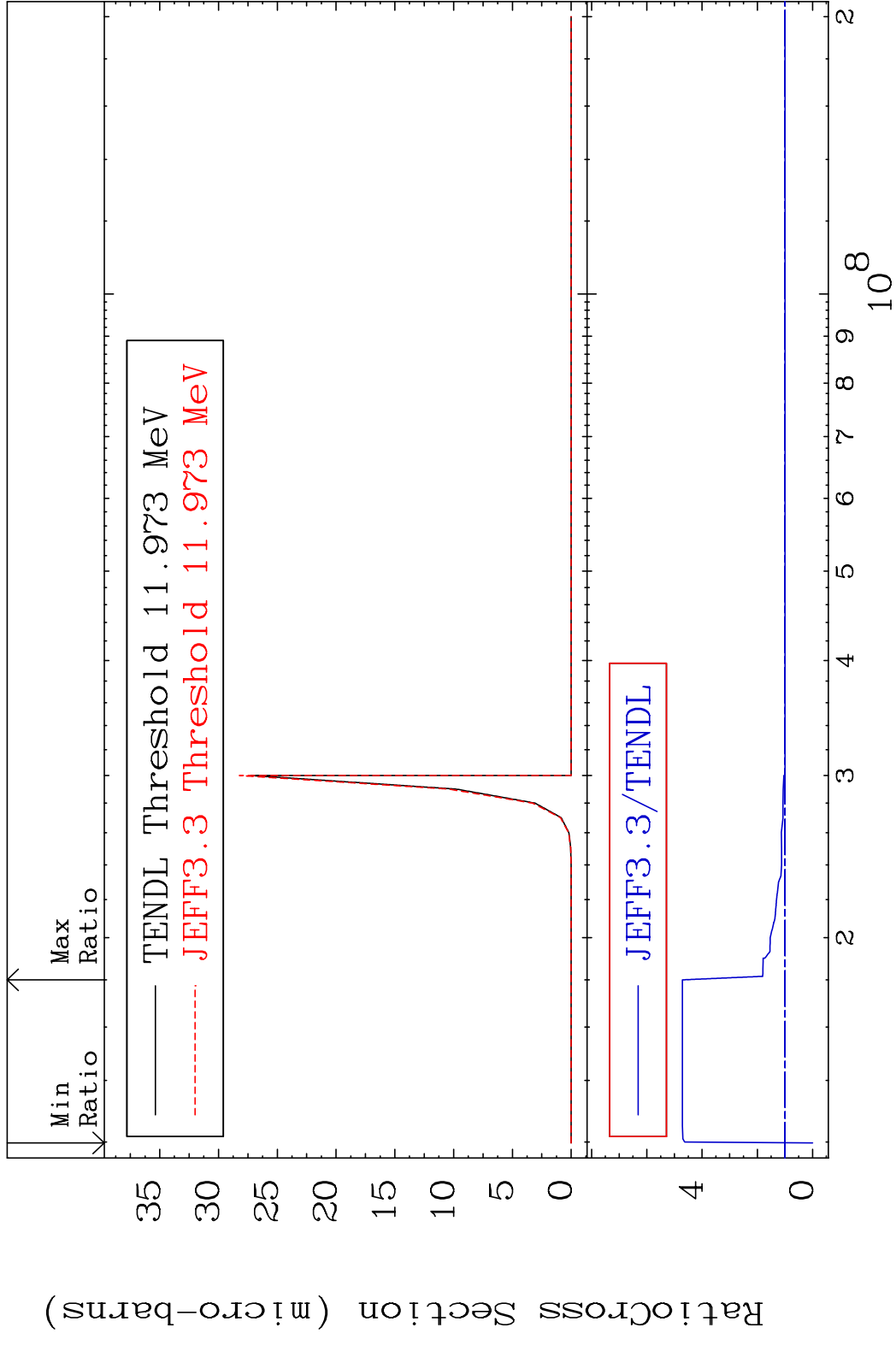


MAT 7322

(n,n') He-3

73-Ta-179

Cross Section -100.0 To 371.4 %

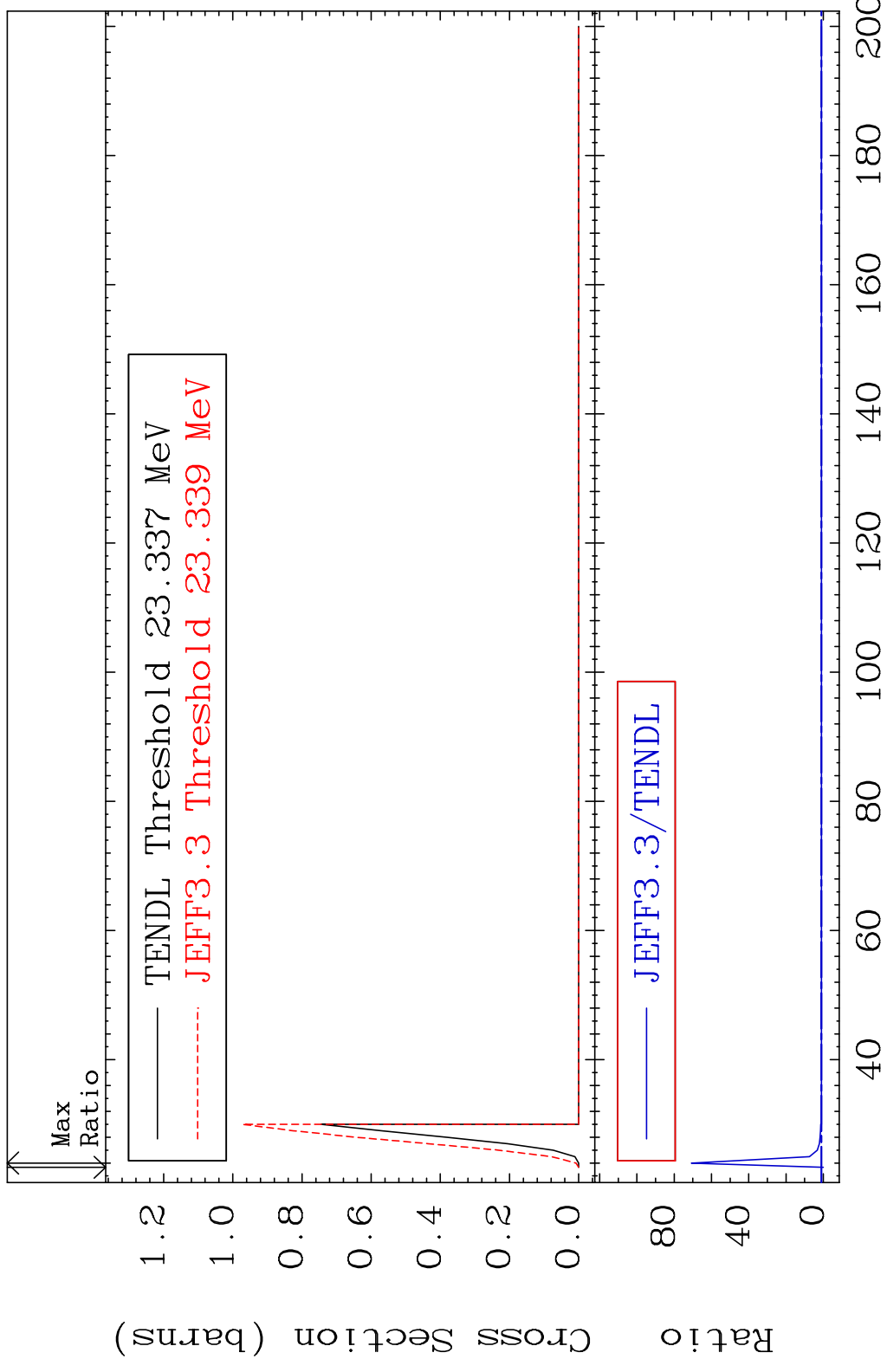


MAT 7322

(n,4n)

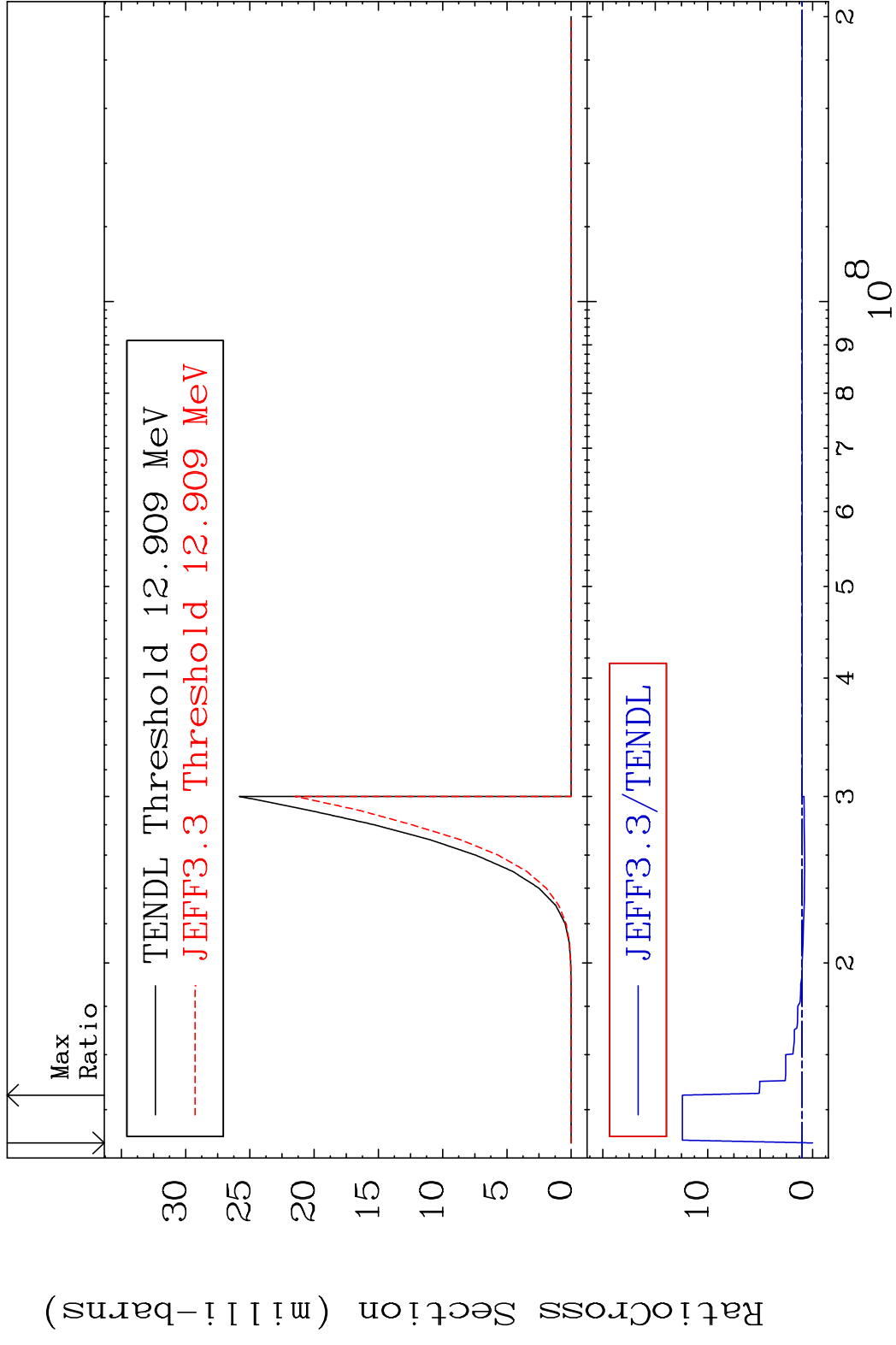
73-Ta-179

Cross Section -100.0 To 6980. %

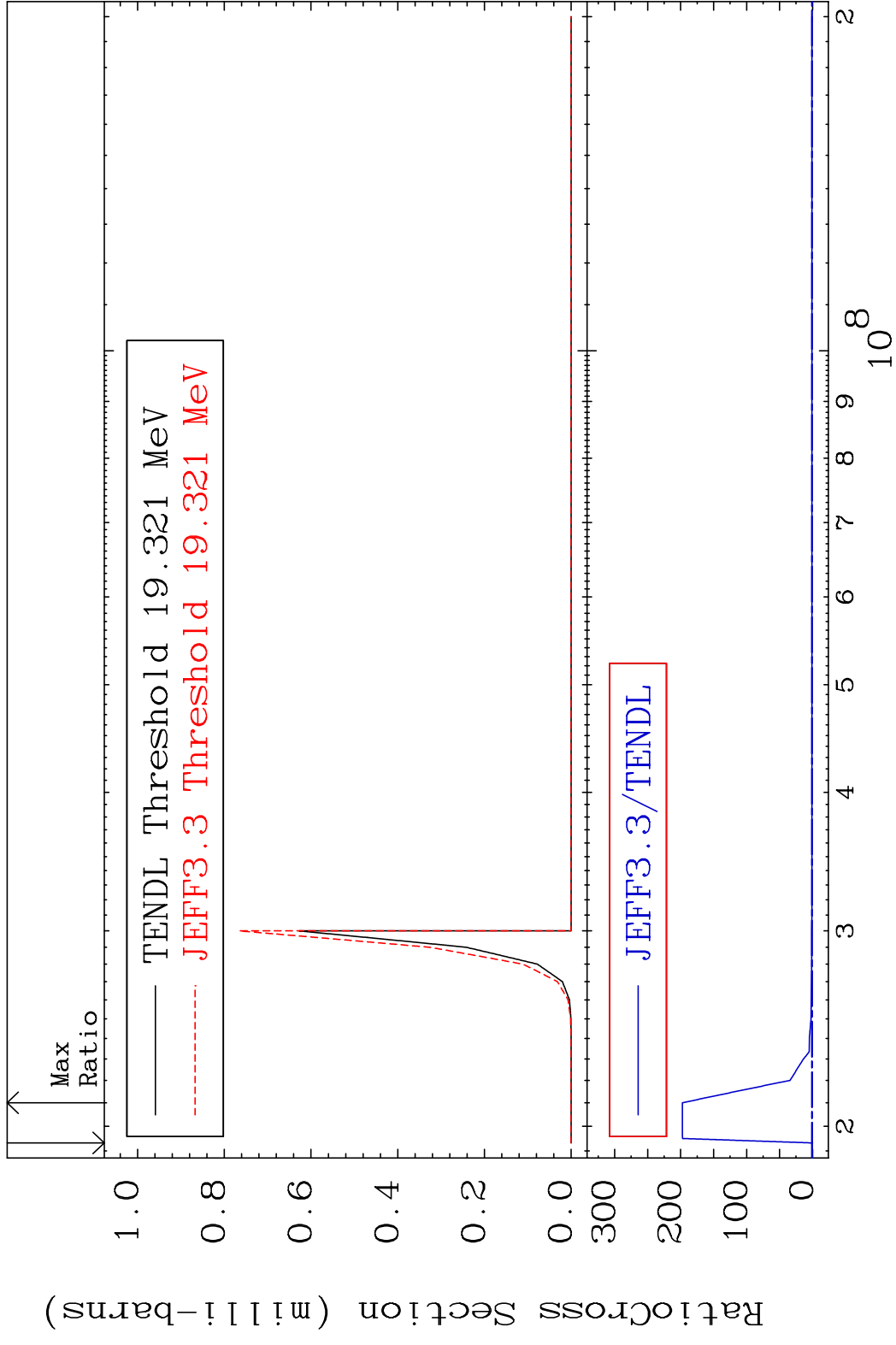




MAT 7322 (n,2n) p 73-Ta-179  
 Cross Section -100.0 To 1142. %

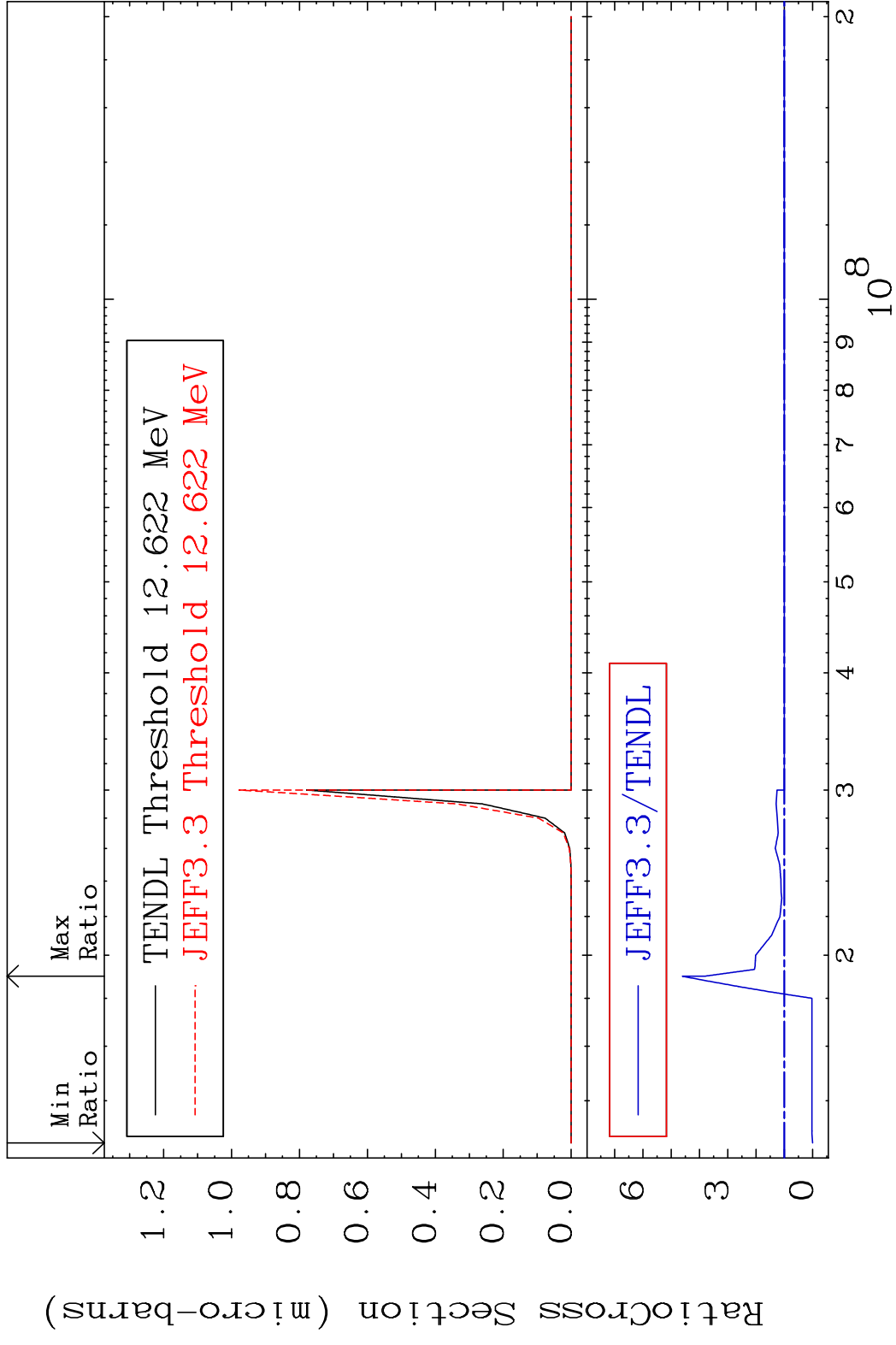


MAT 7322 (n,3n) p 73-Ta-179  
 Cross Section -100.0 To 9999. %



MAT 7322

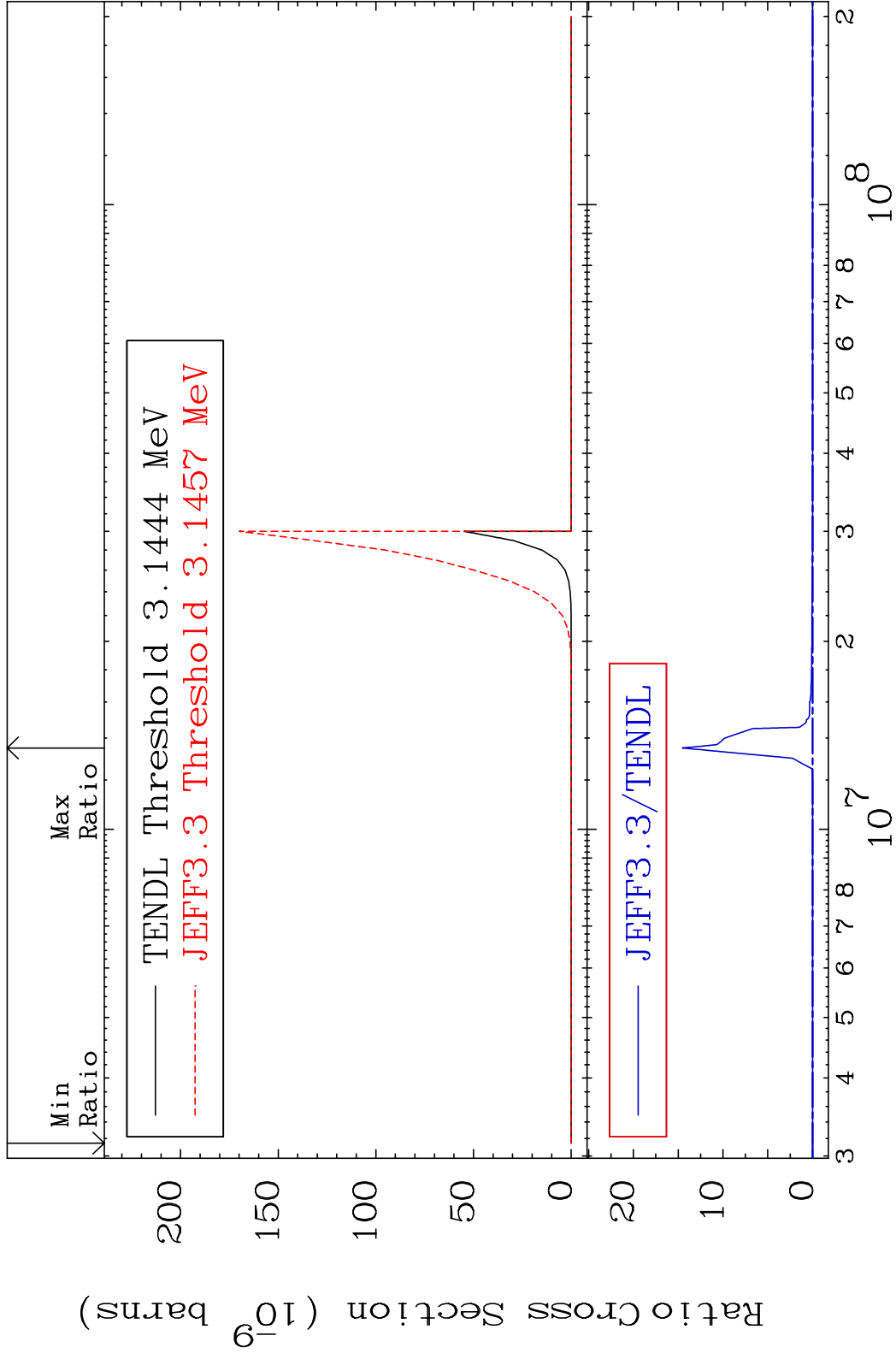
(n,2n) p 73-Ta-179  
Cross Section -100.0 To 360.8 %



MAT 7322

(n,n') p α  
Cross Section -100.0 To 9999. %

73-Ta-179

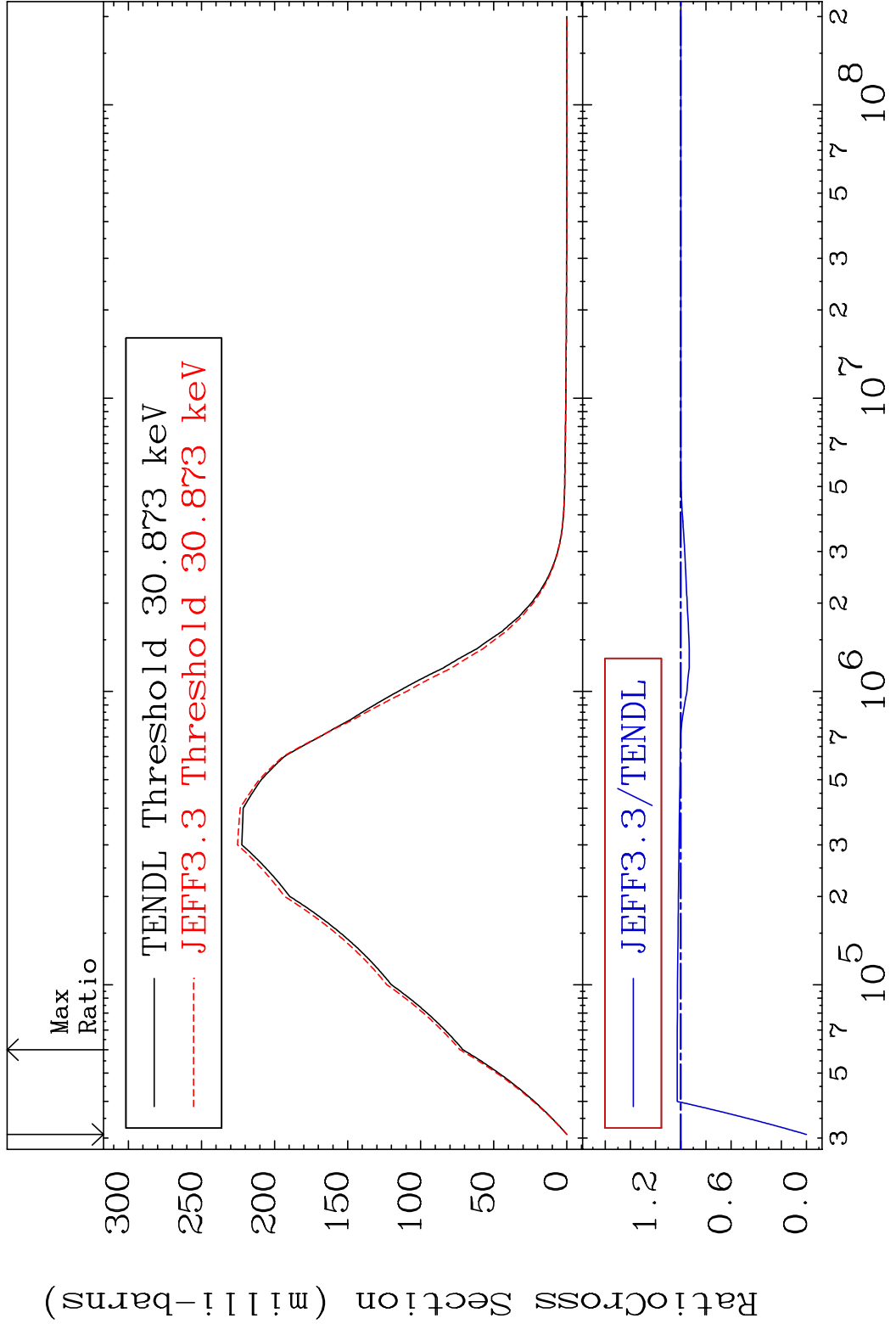


19

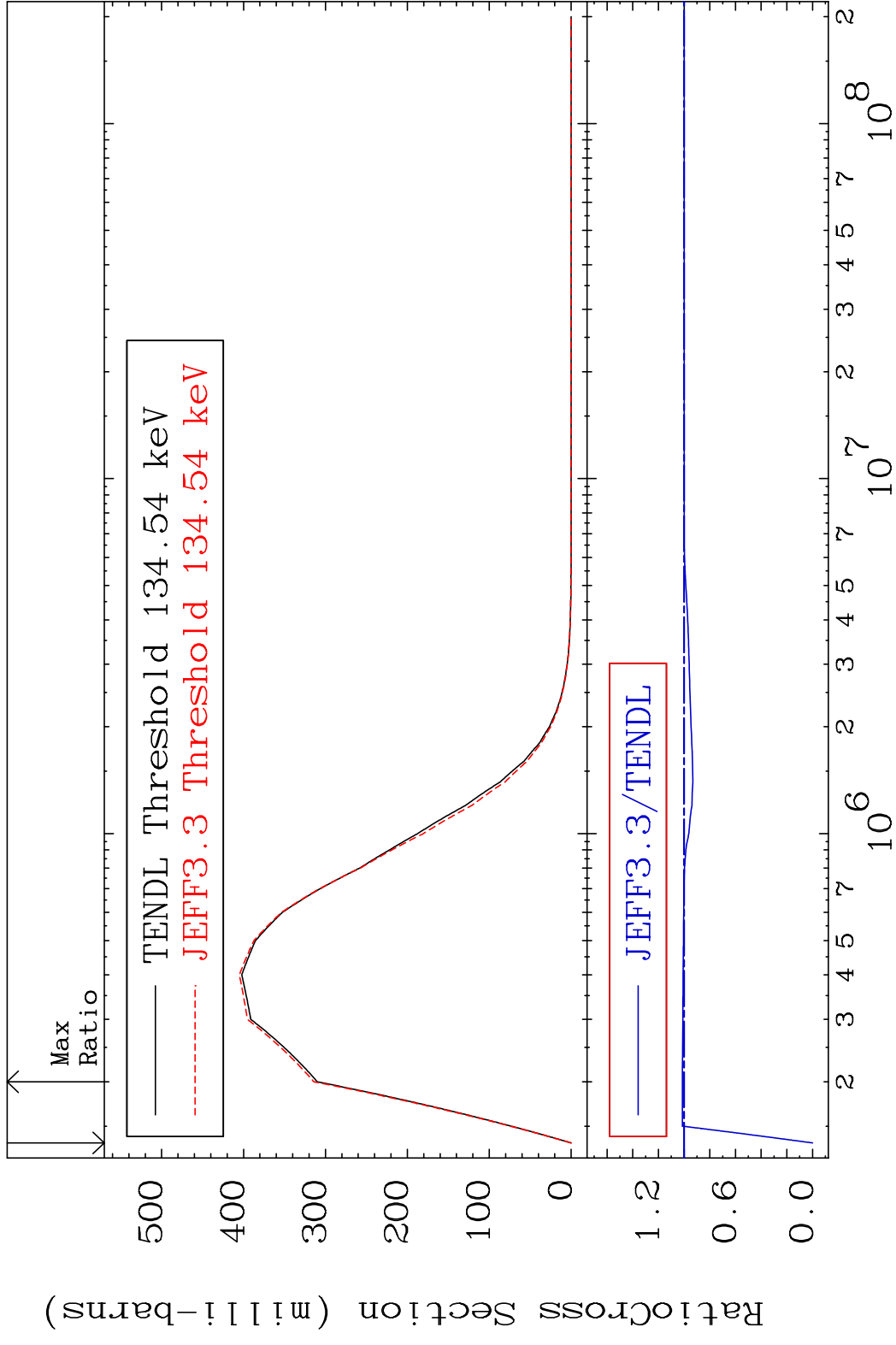
Incident Energy (eV)

73-Ta-179

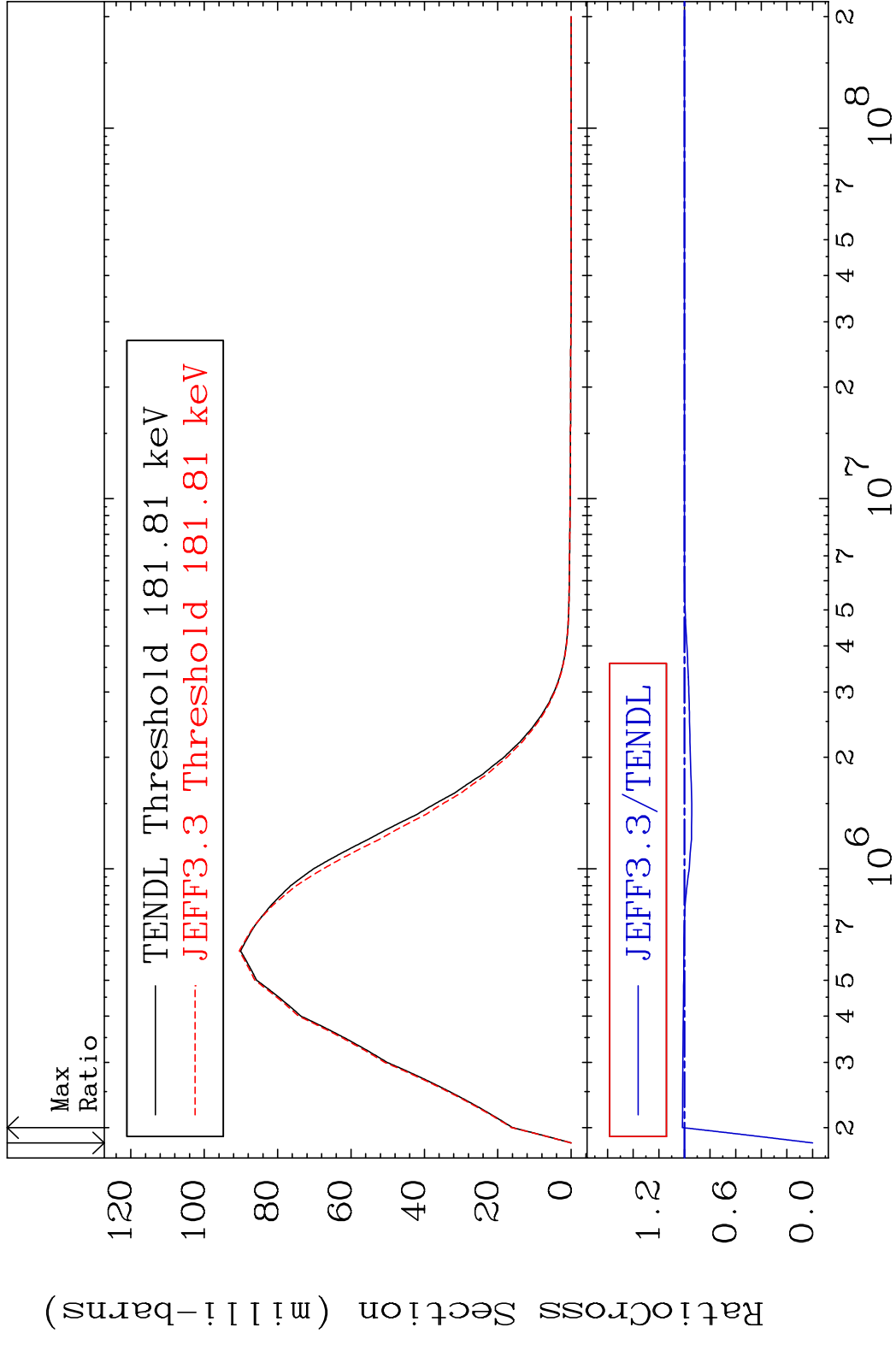
MAT 7322 MT= 51 (n,n') Level 73-Ta-179  
 Cross Section -100.0 To 2.826 %



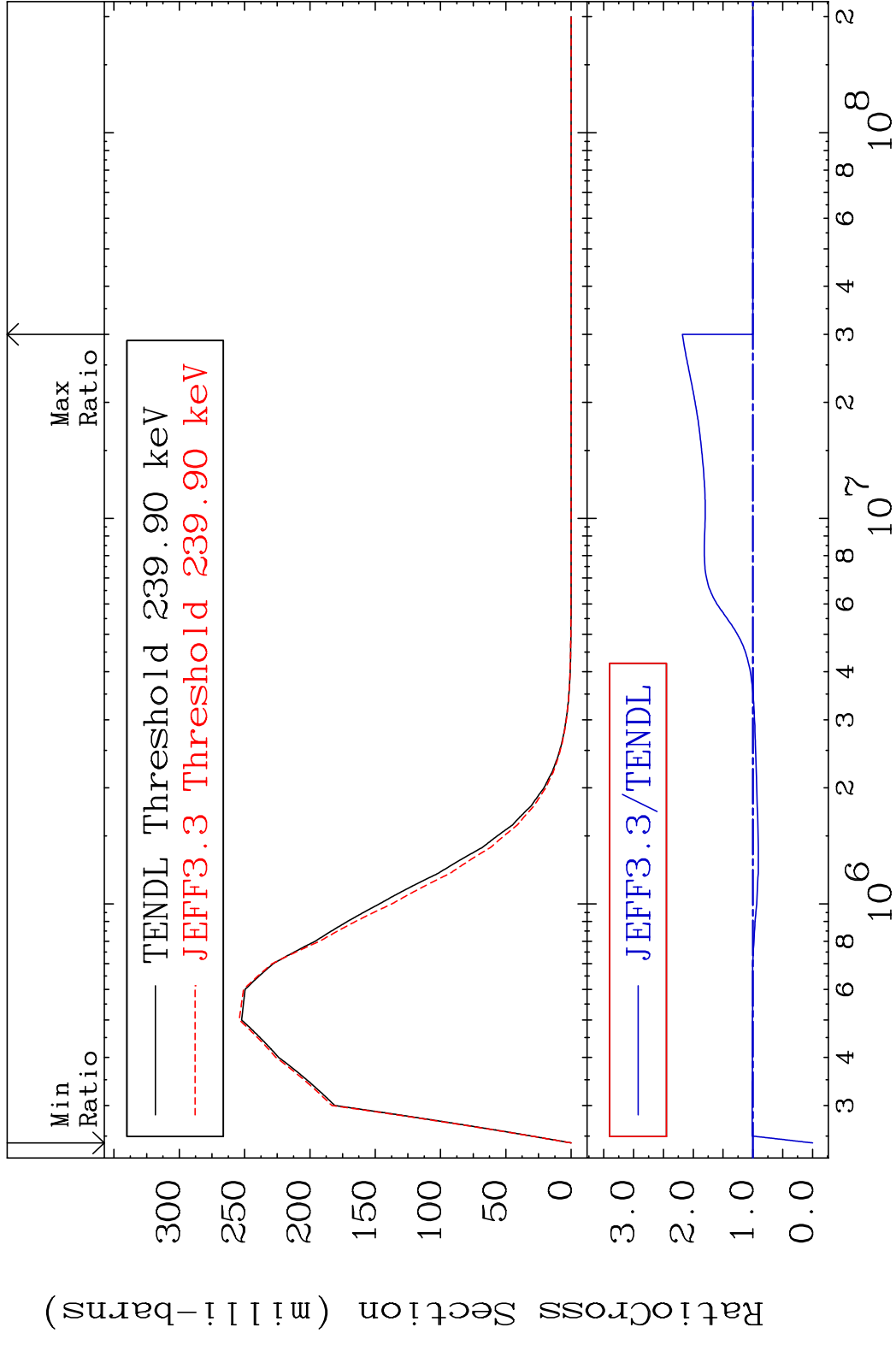
MAT 7322 MT= 52 (n,n') Level 73-Ta-179  
 Cross Section -100.0 To 1.368 %



MAT 7322 MT= 53 (n,n') Level 73-Ta-179  
 Cross Section -100.0 To 1.608 %

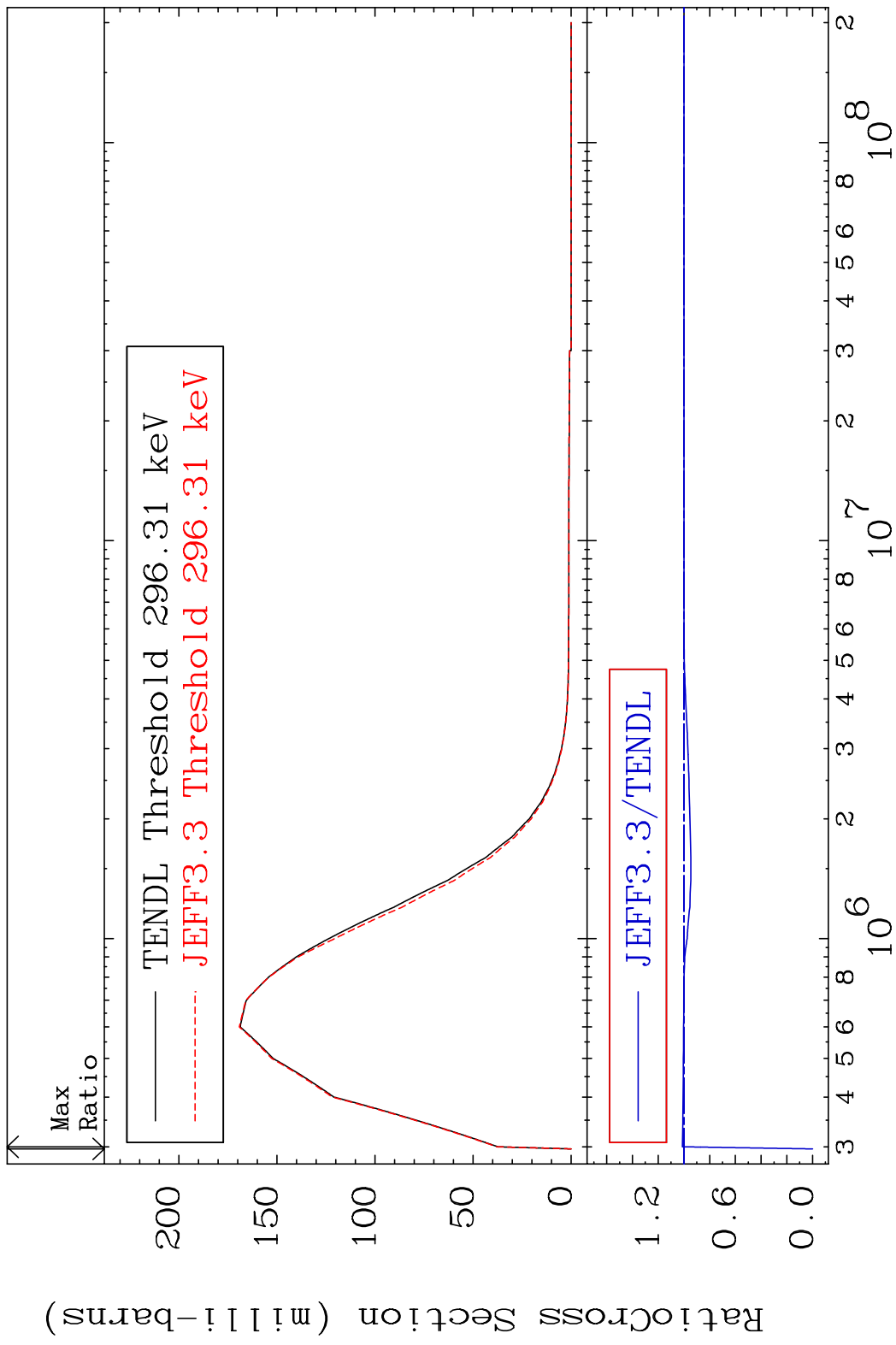


MAT 7322 MT= 54 (n,n') Level 73-Ta-179  
 Cross Section -100.0 To 118.3 %

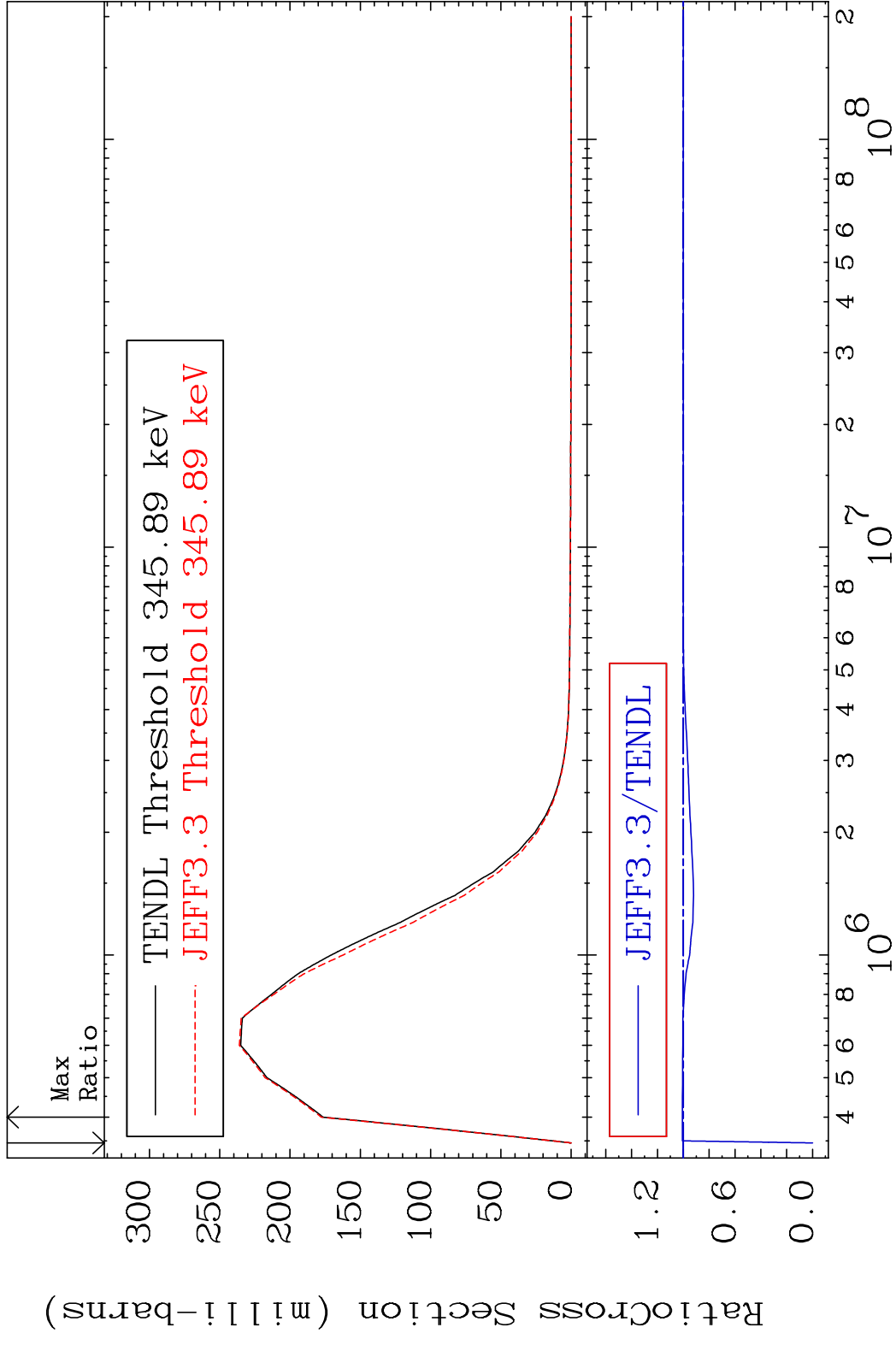




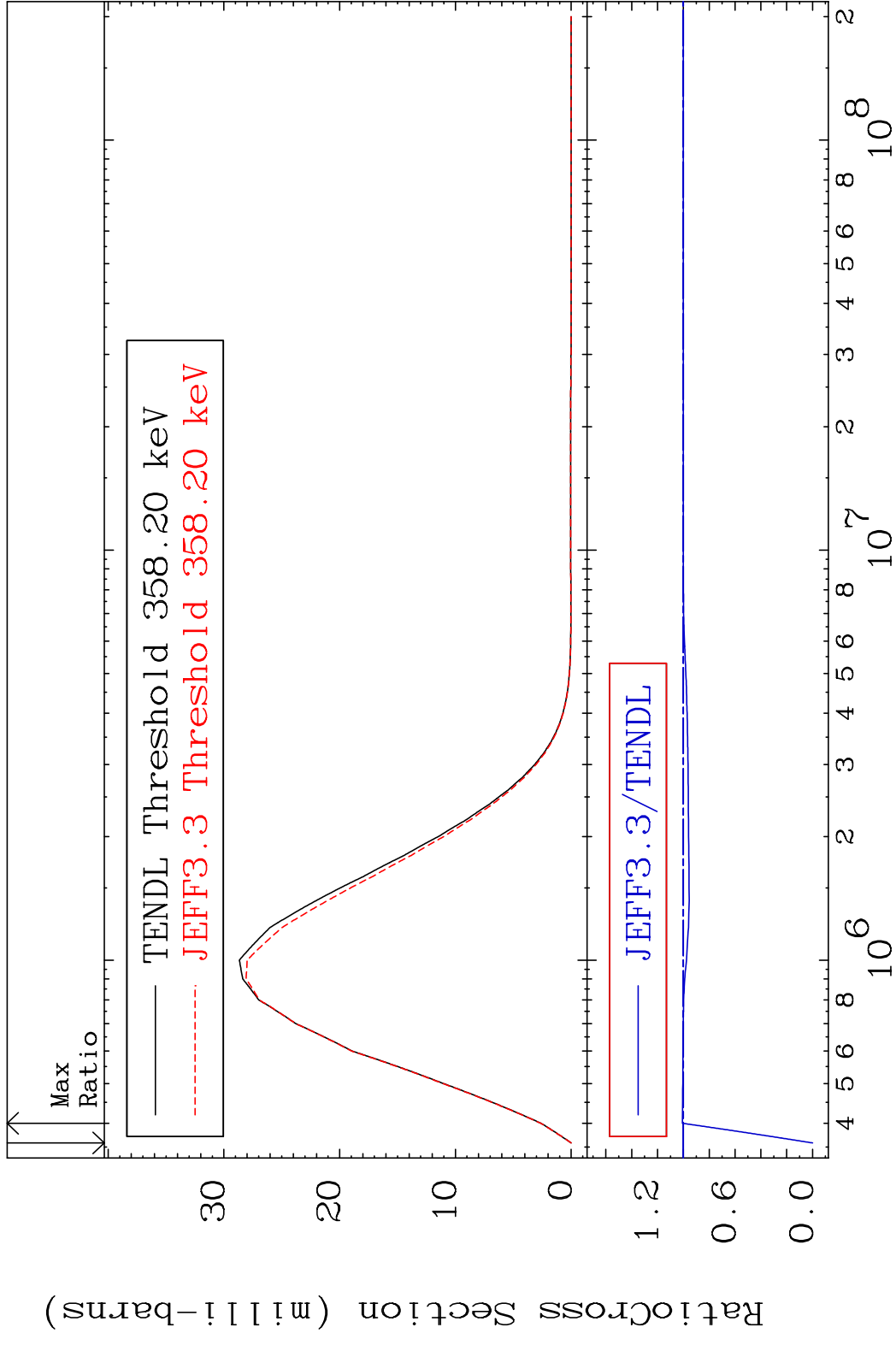
MAT 7322 MT= 55 (n,n') Level 73-Ta-179  
 Cross Section -100.0 To 1.217 %



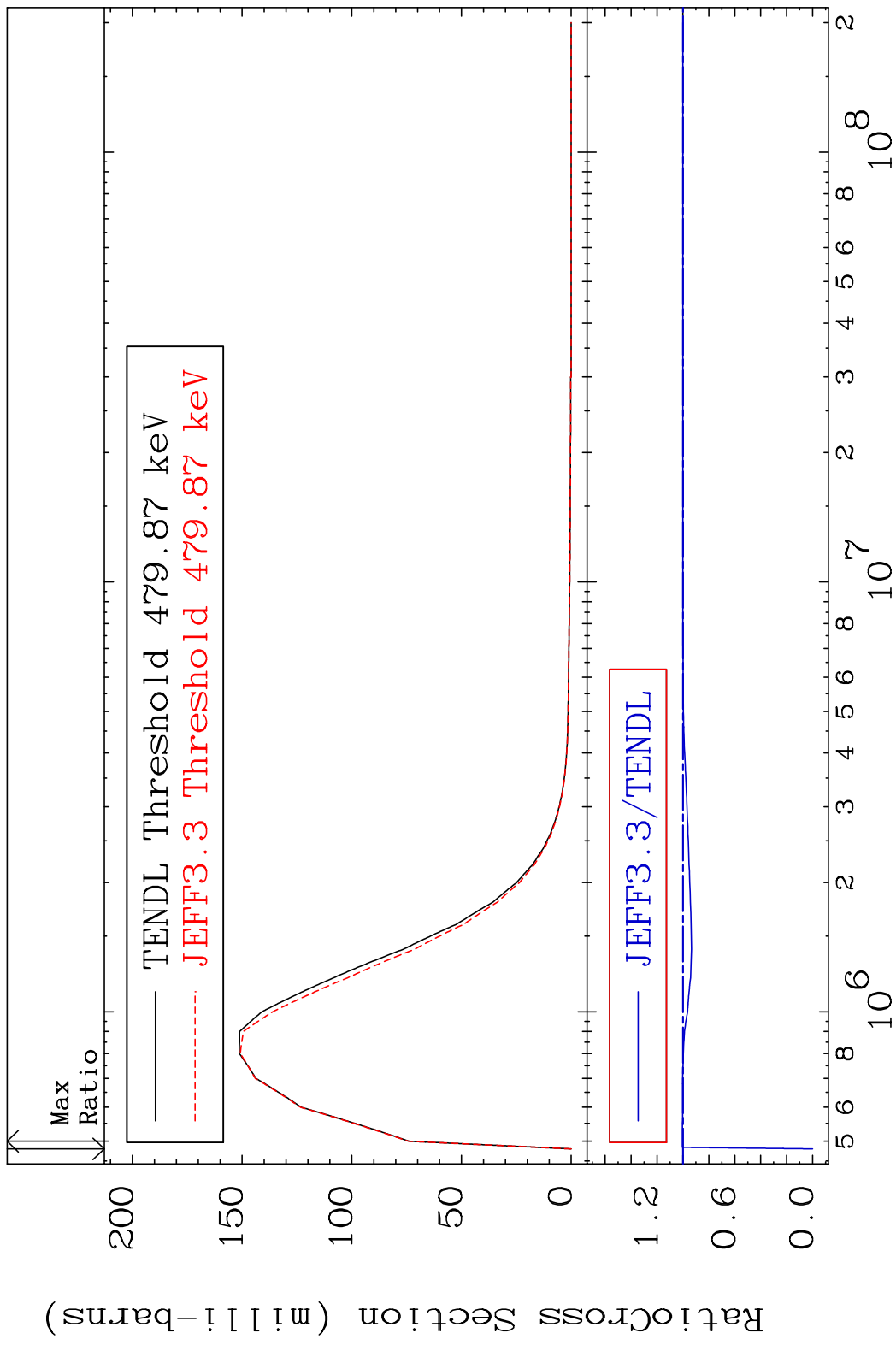
MAT 7322 MT= 56 (n,n') Level 73-Ta-179  
 Cross Section -100.0 To 0.726 %



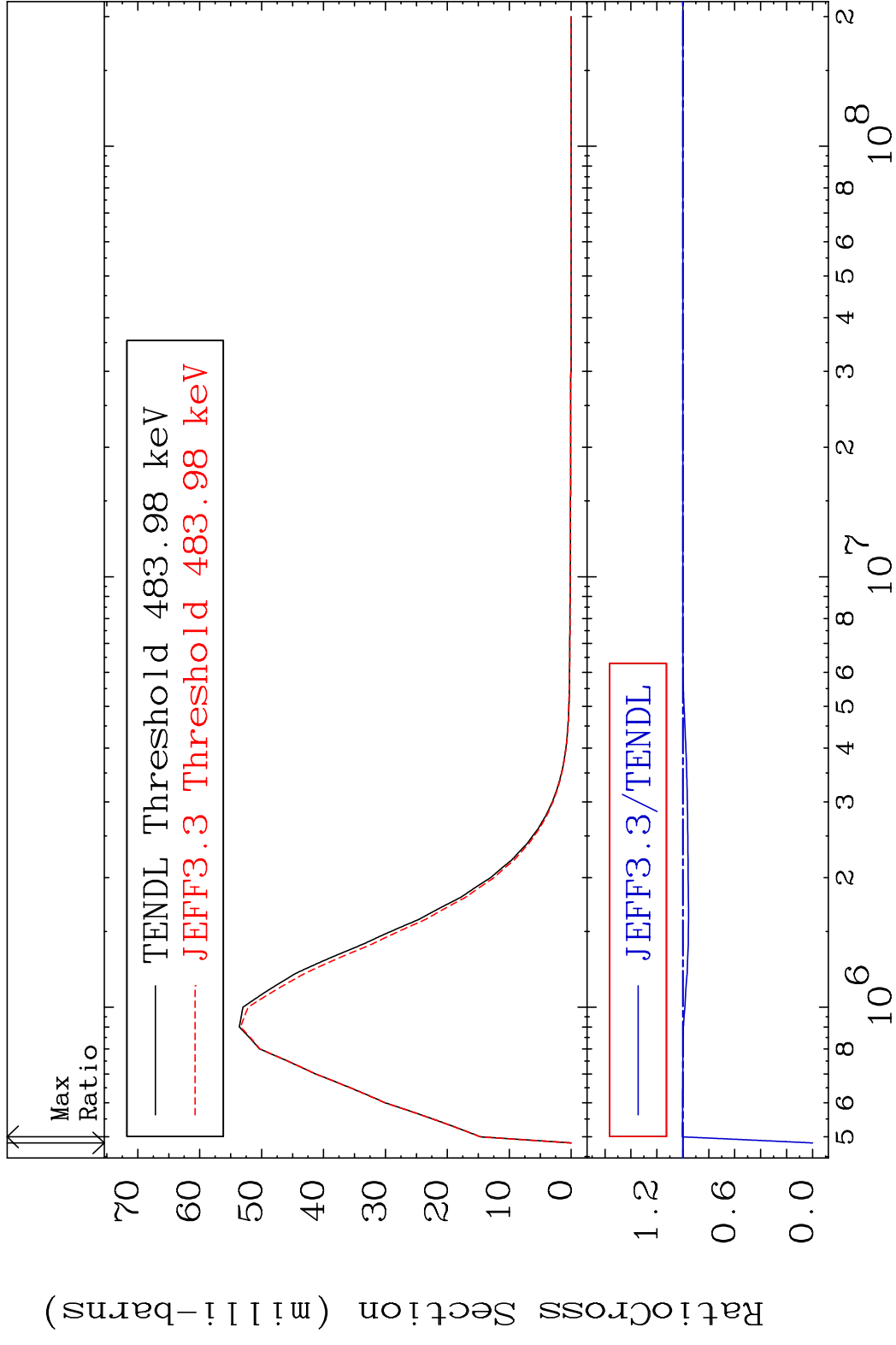
MAT 7322 MT= 57 (n, n') Level 73-Ta-179  
 Cross Section -100.0 To 0.770 %



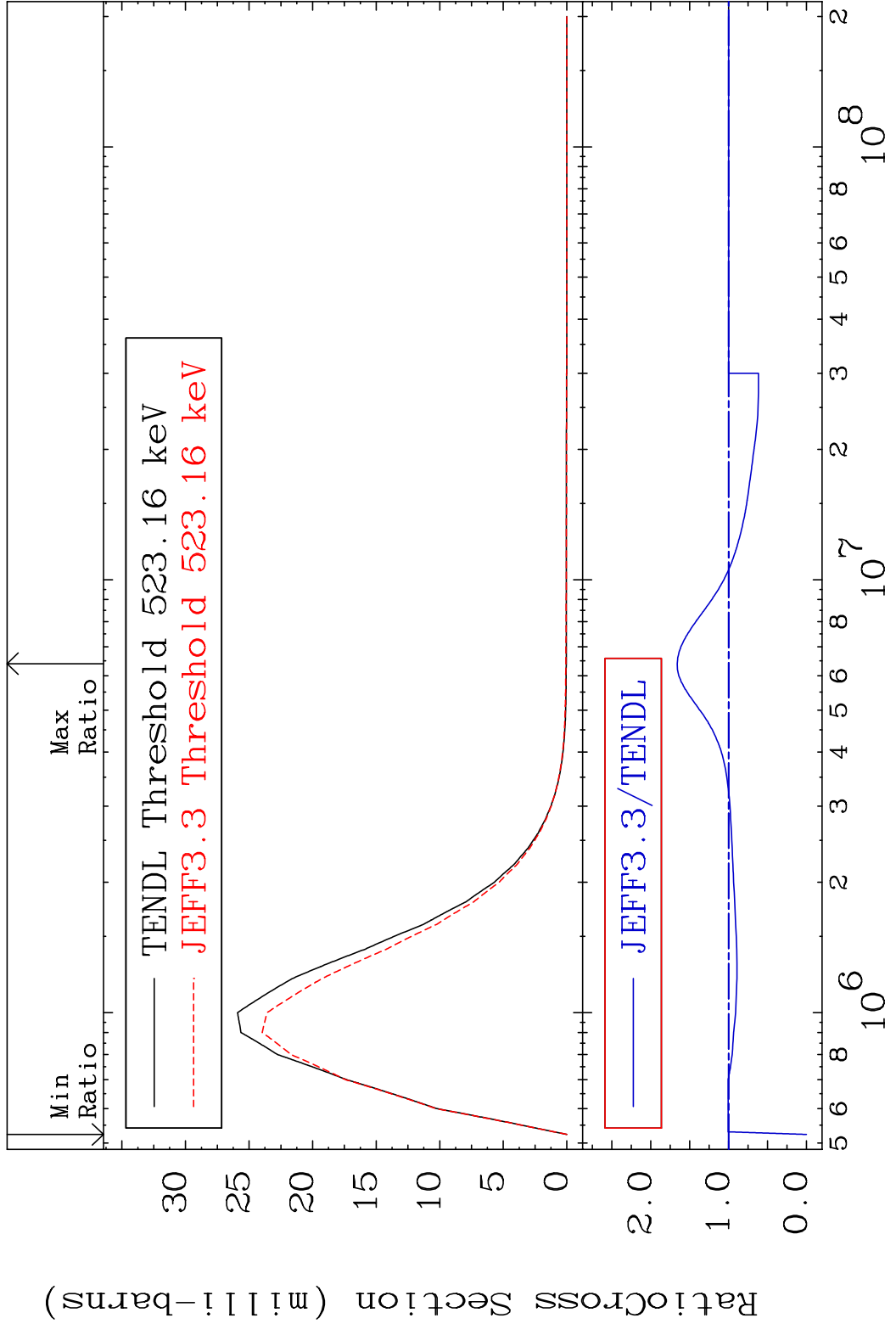
MAT 7322 MT= 58 (n,n') Level 73-Ta-179  
 Cross Section -100.0 To 0.460 %



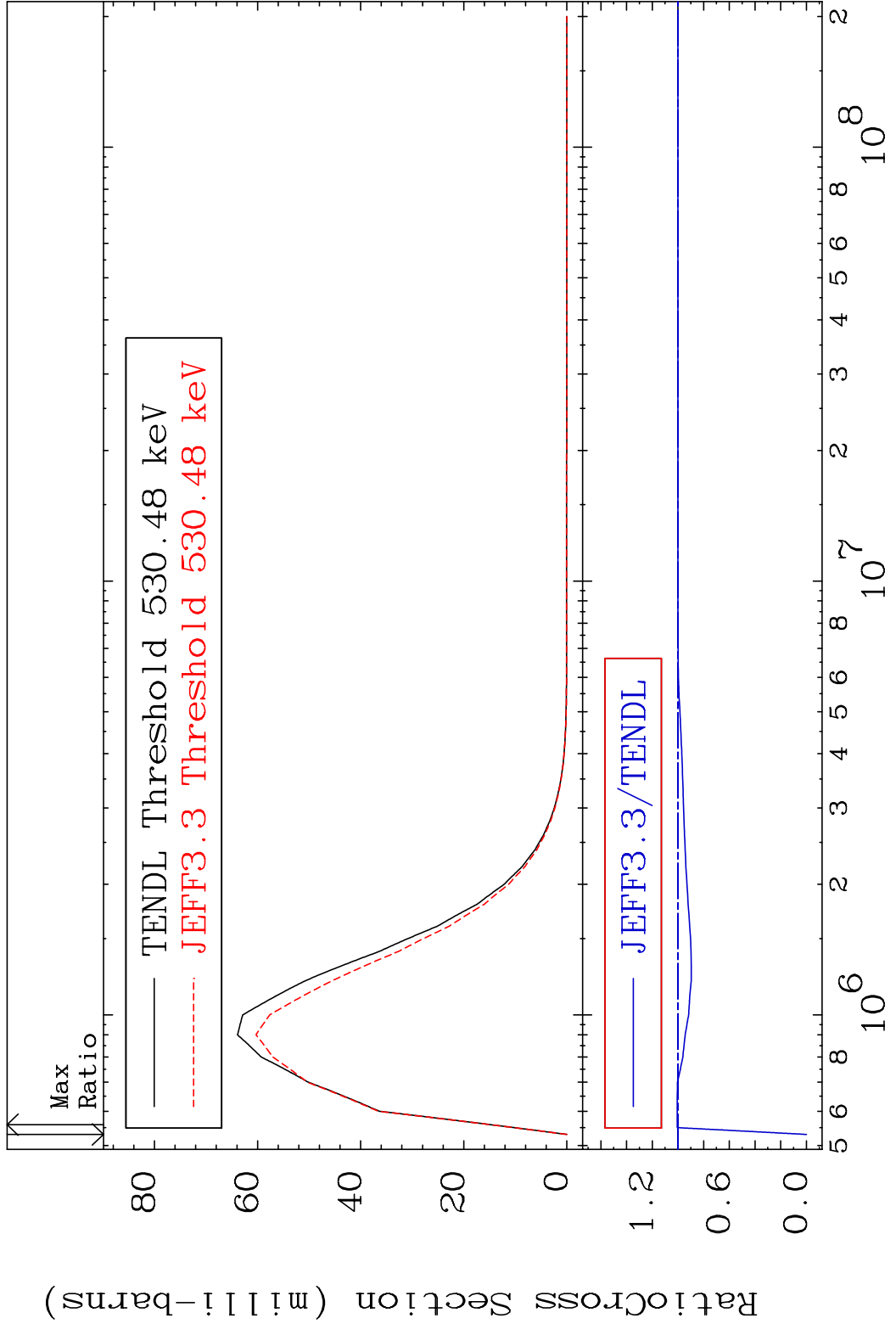
MAT 7322 MT= 59 (n,n') Level 73-Ta-179  
 Cross Section -100.0 To 0.359 %



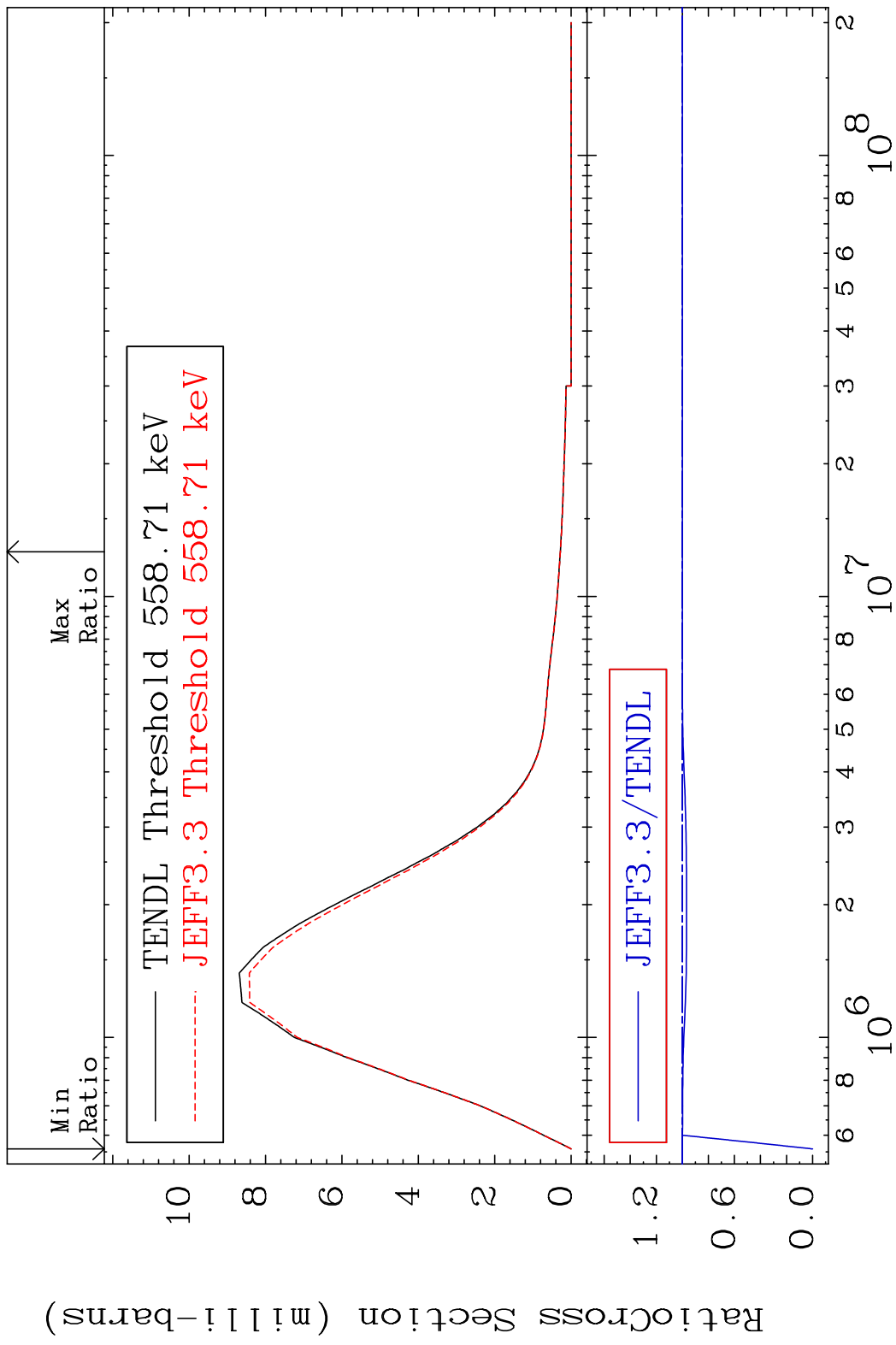
MAT 7322 MT= 60 (n, n') Level 73-Ta-179  
 Cross Section -100.0 To 66.01 %



MAT 7322 MT= 61 (n,n') Level 73-Ta-179  
 Cross Section -100.0 To 0.582 %

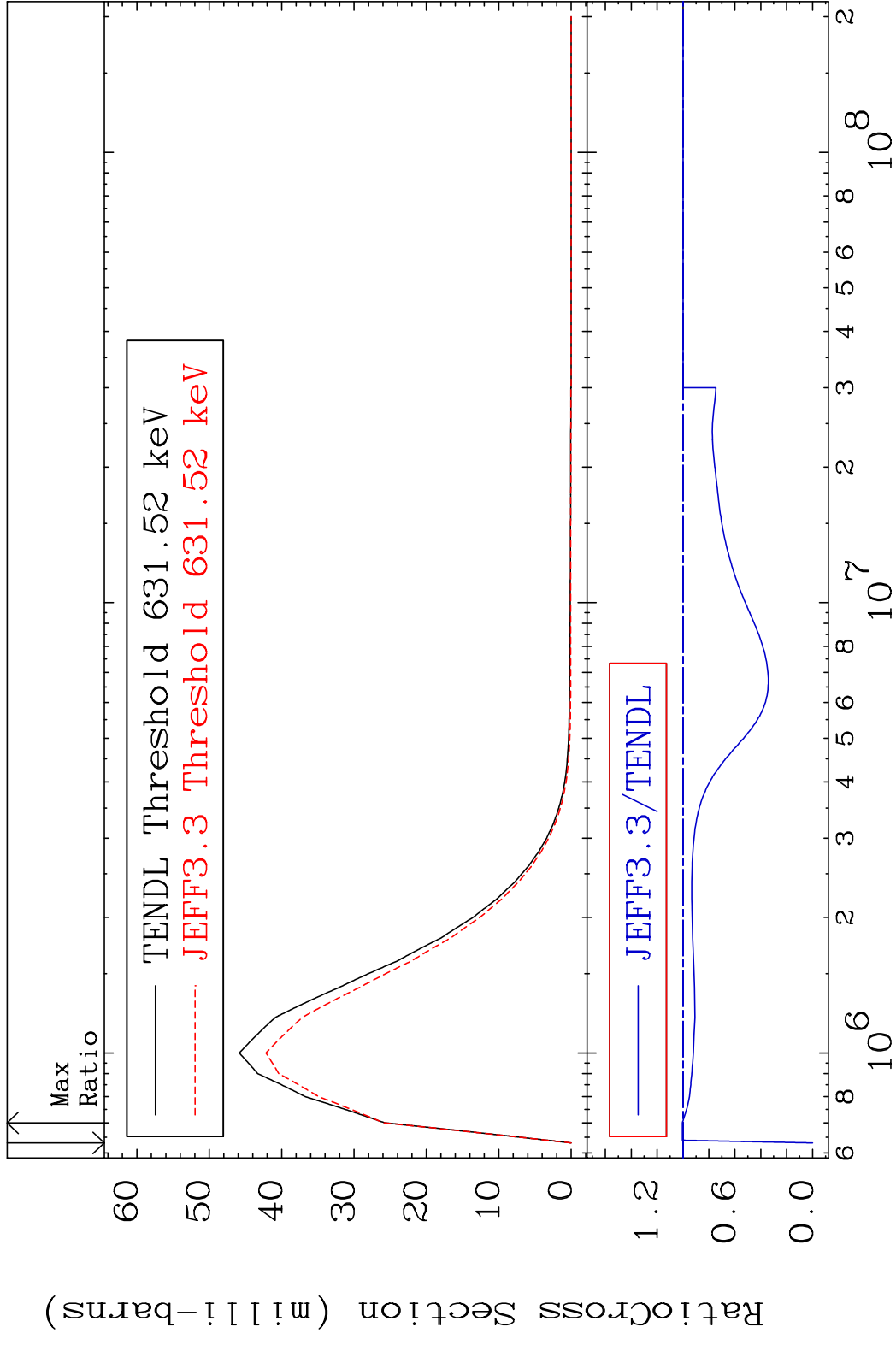


MAT 7322 MT= 62 (n, n') Level 73-Ta-179  
 Cross Section -100.0 To 0.000 %

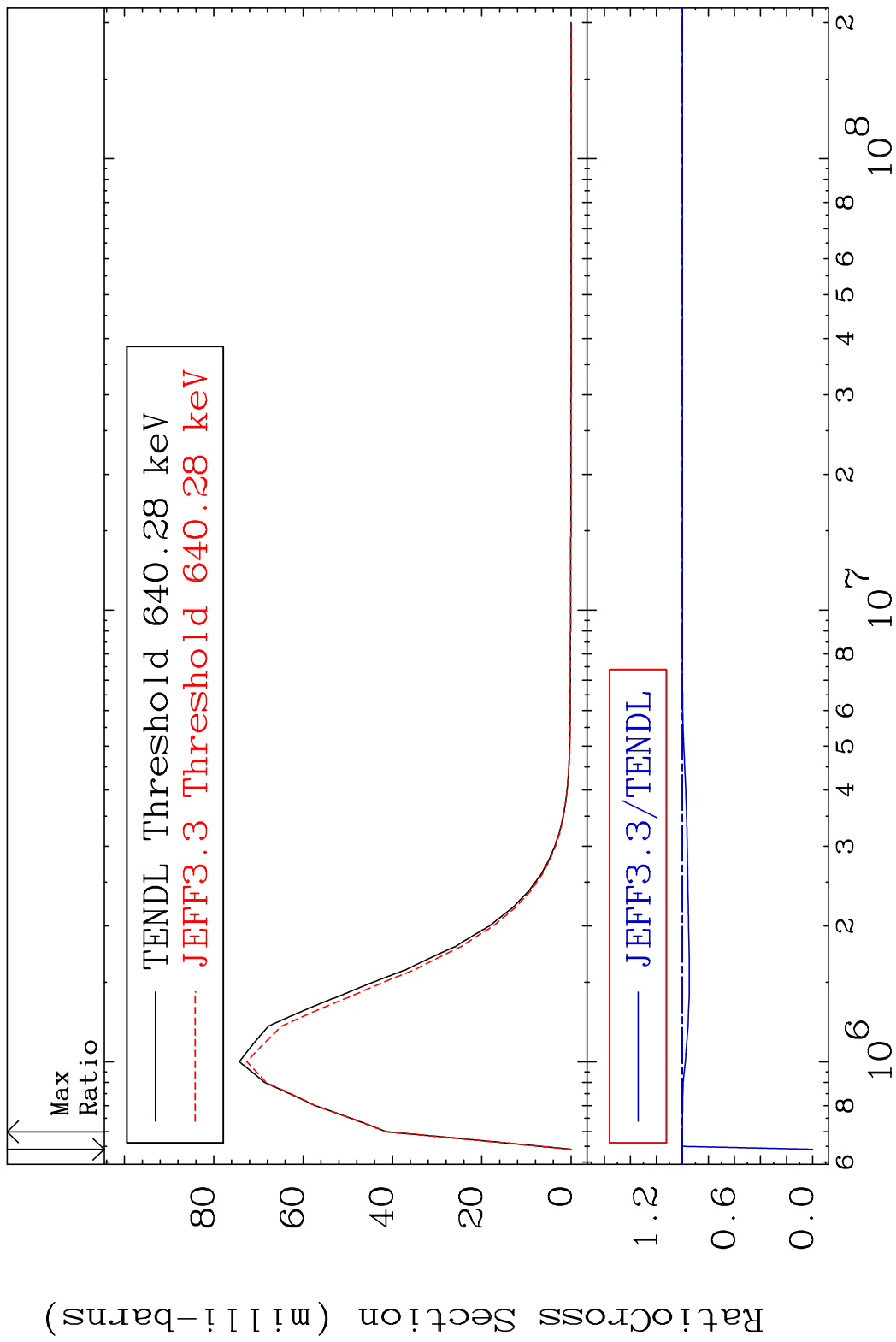




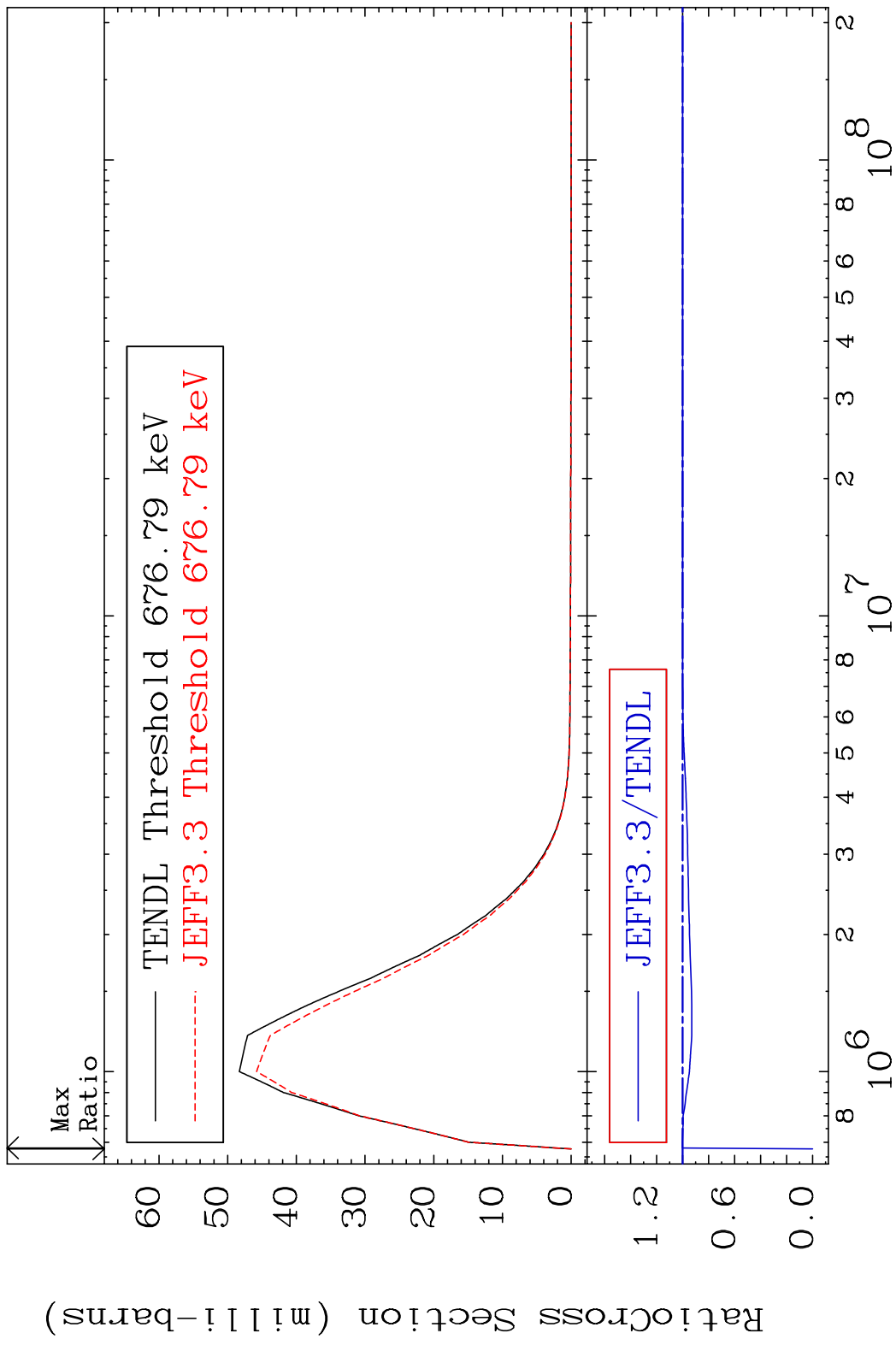
MAT 7322 MT= 63 (n, n') Level 73-Ta-179  
 Cross Section -100.0 To 0.524 %



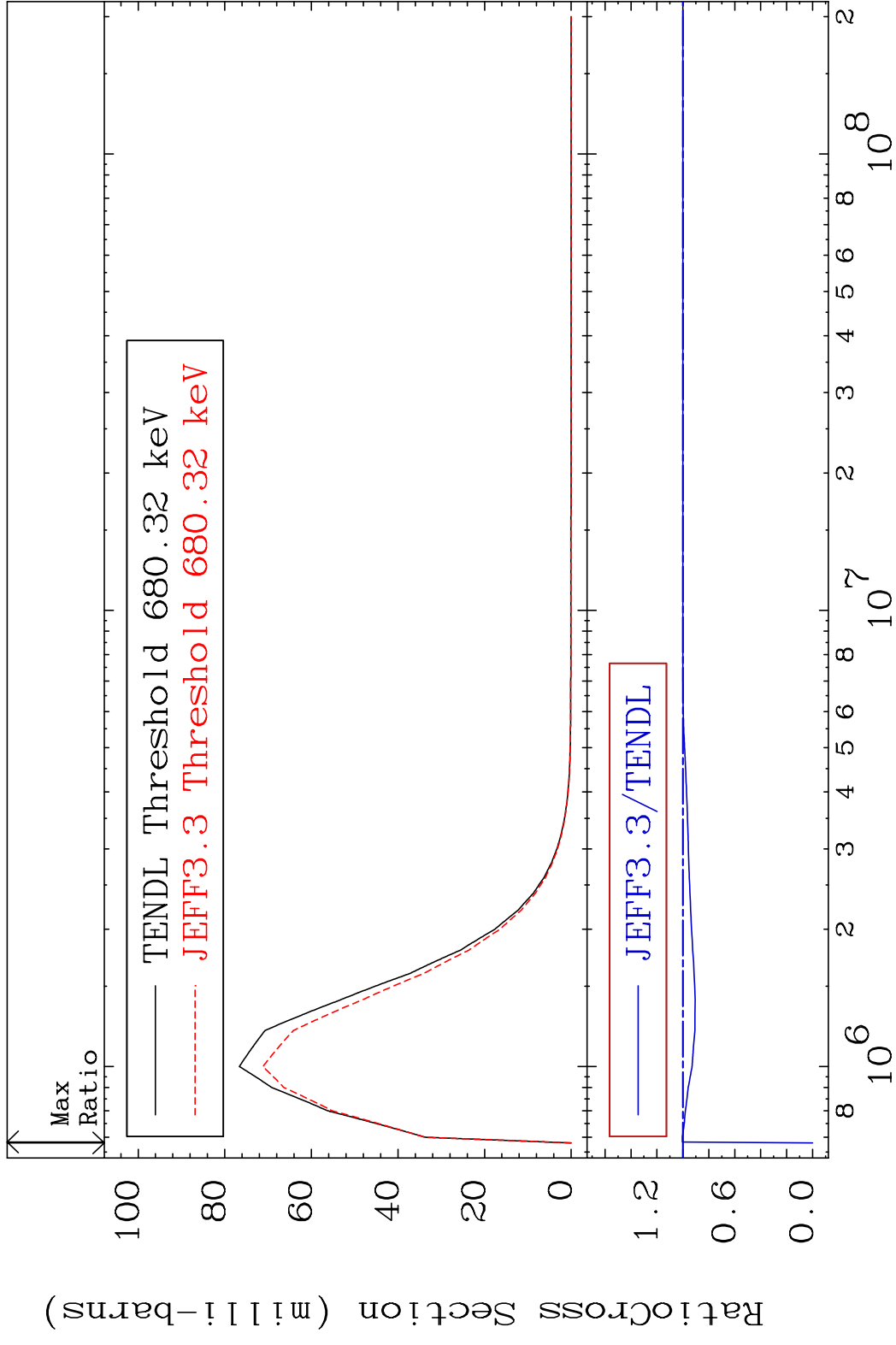
MAT 7322 MT= 64 (n, n') Level 73-Ta-179  
 Cross Section -100.0 To 0.040 %



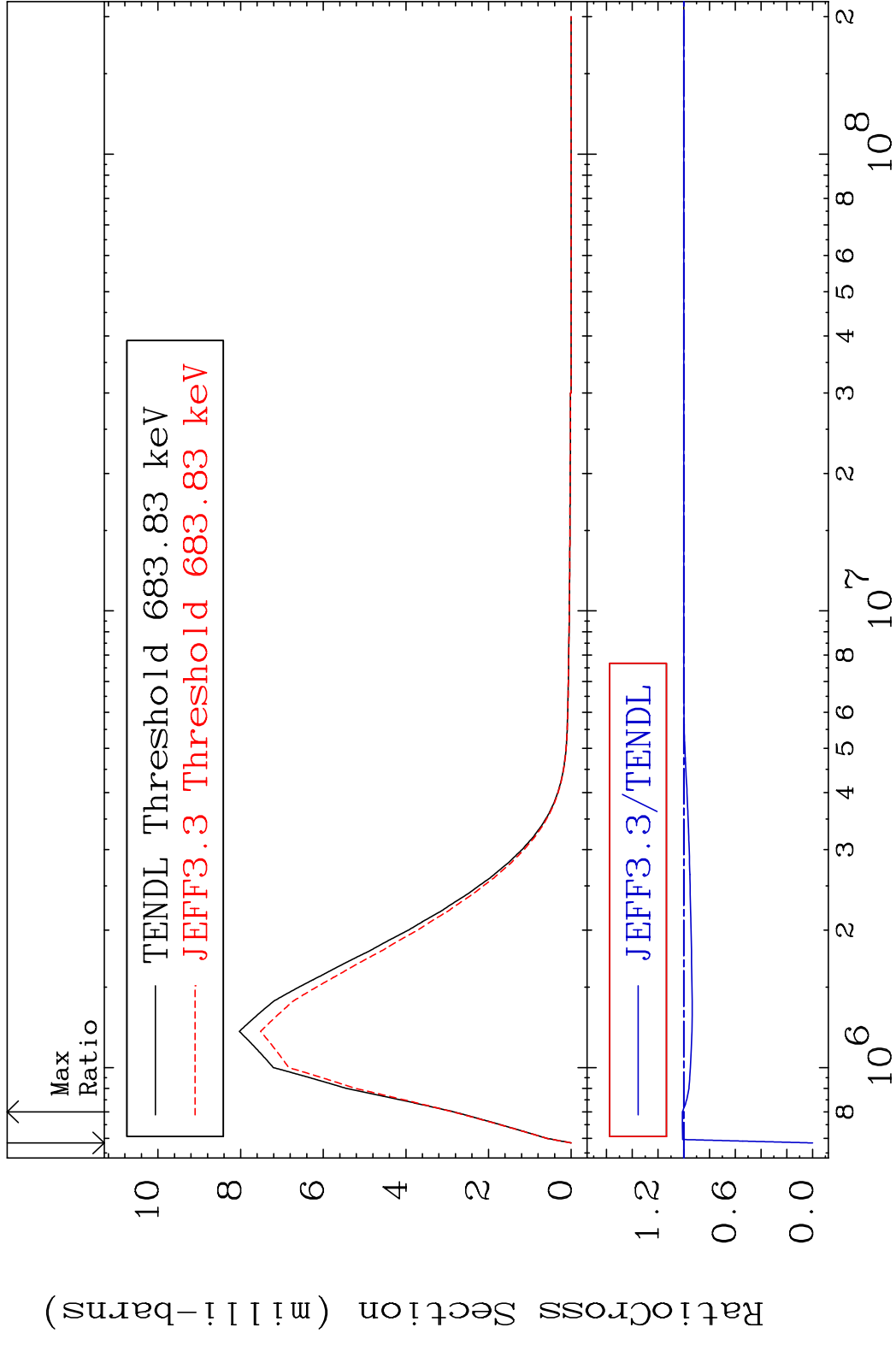
MAT 7322 MT= 65 (n,n') Level 73-Ta-179  
 Cross Section -100.0 To 0.240 %



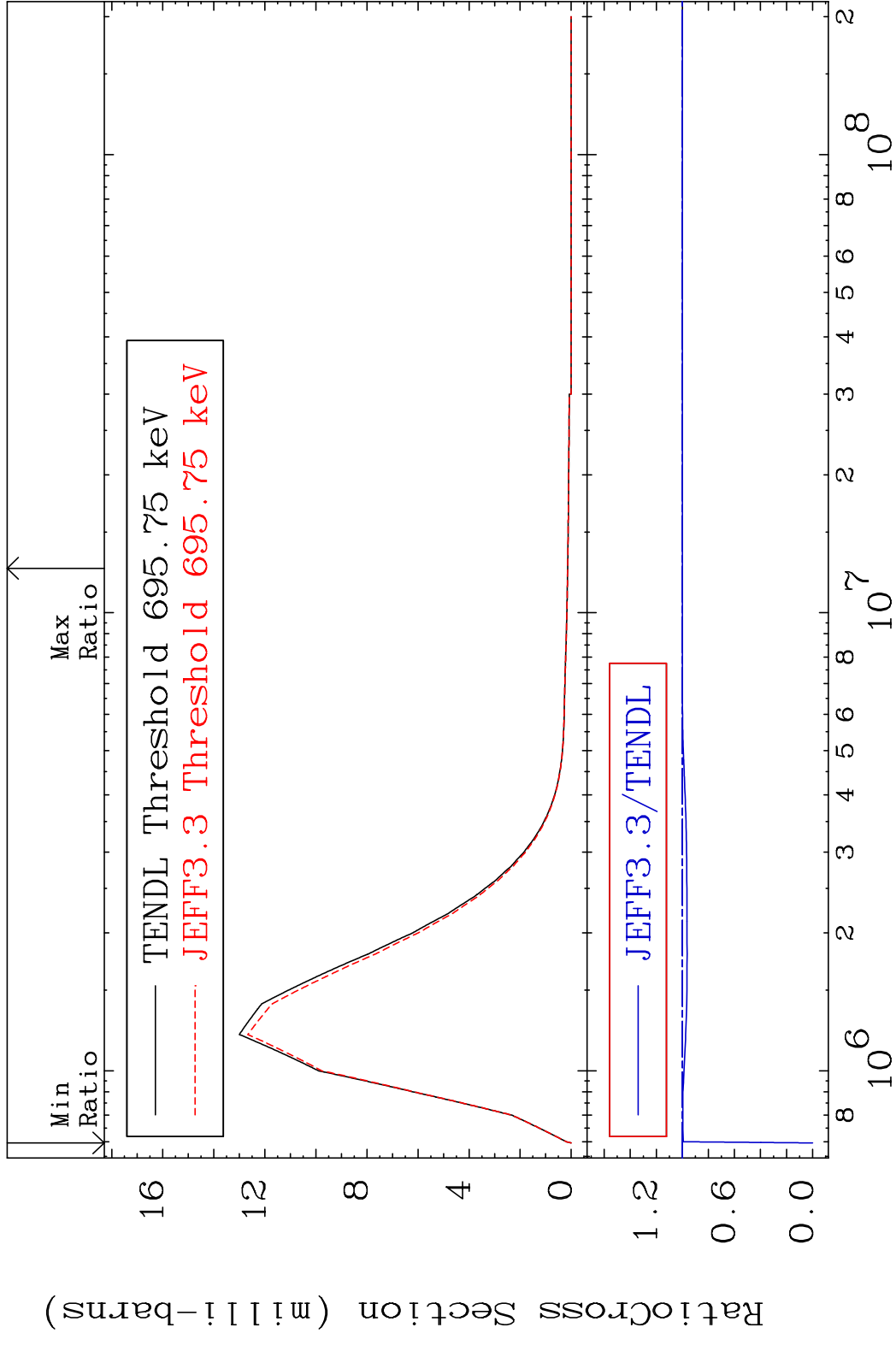
MAT 7322 MT= 66 (n,n') Level 73-Ta-179  
 Cross Section -100.0 To 0.395 %



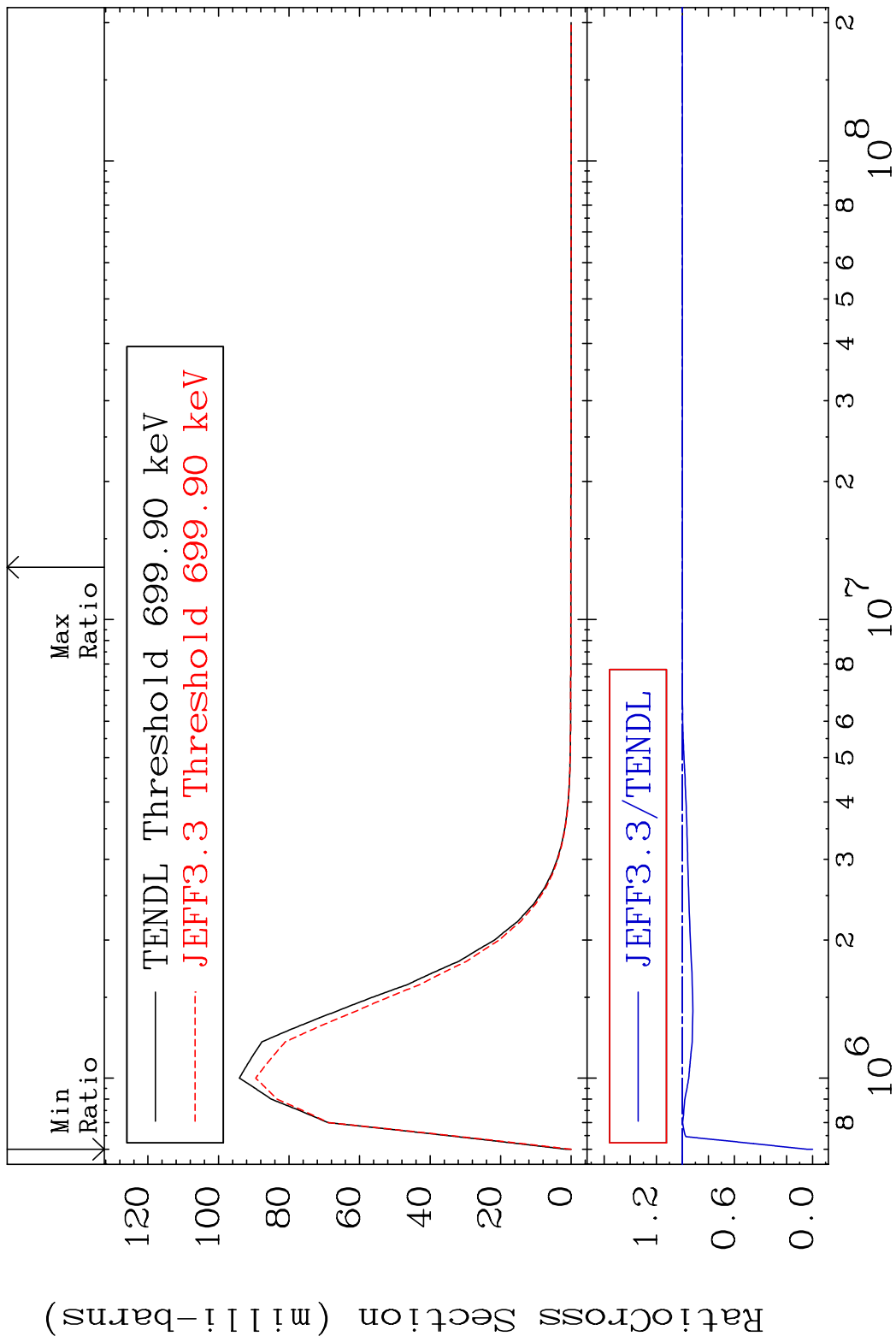
MAT 7322 MT= 67 (n,n') Level 73-Ta-179  
 Cross Section -100.0 To 1.089 %



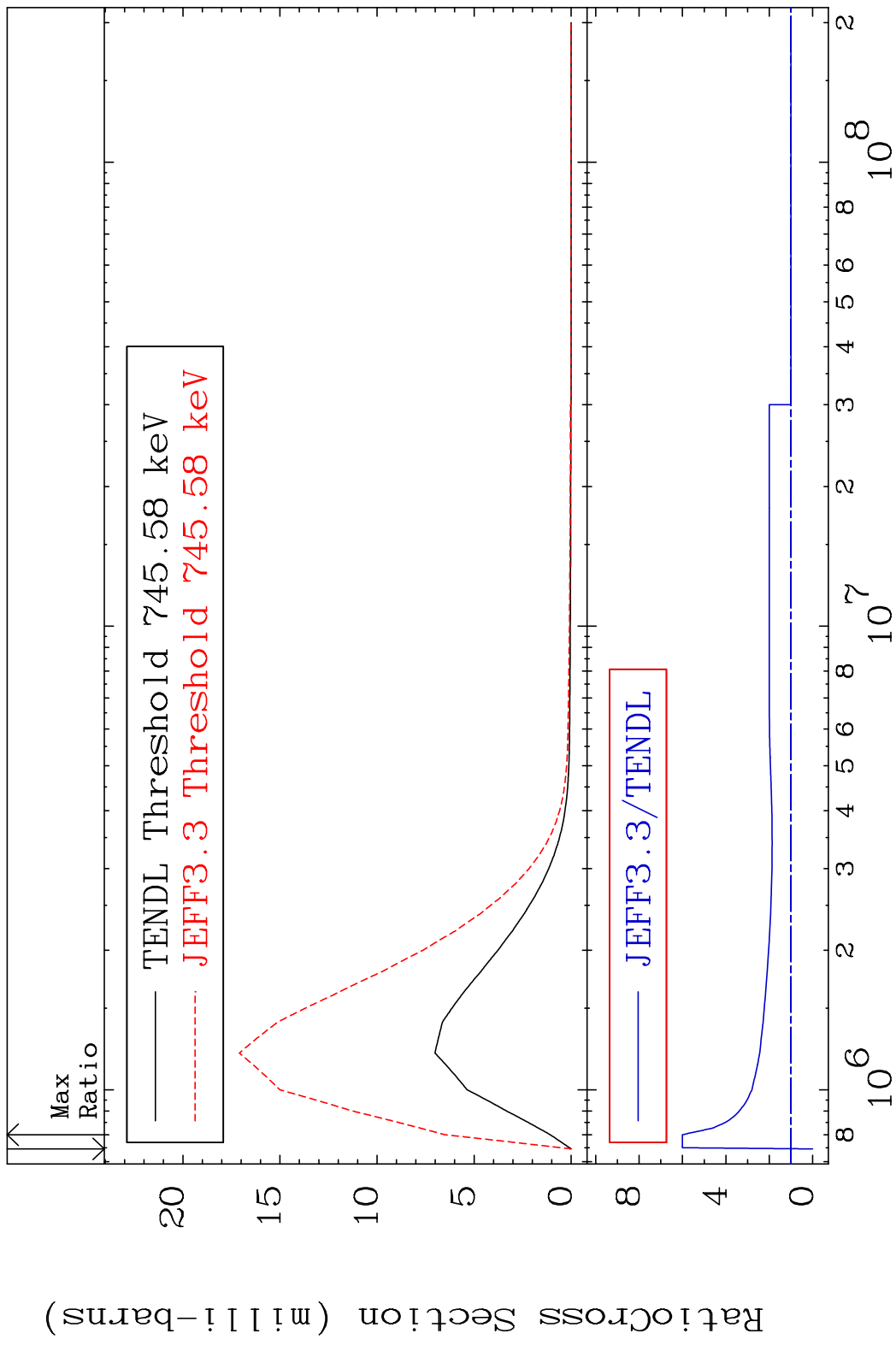
MAT 7322 MT= 68 (n, n') Level 73-Ta-179  
 Cross Section -100.0 To 0.000 %



MAT 7322 MT= 69 (n, n') Level 73-Ta-179  
 Cross Section -100.0 To 0.000 %

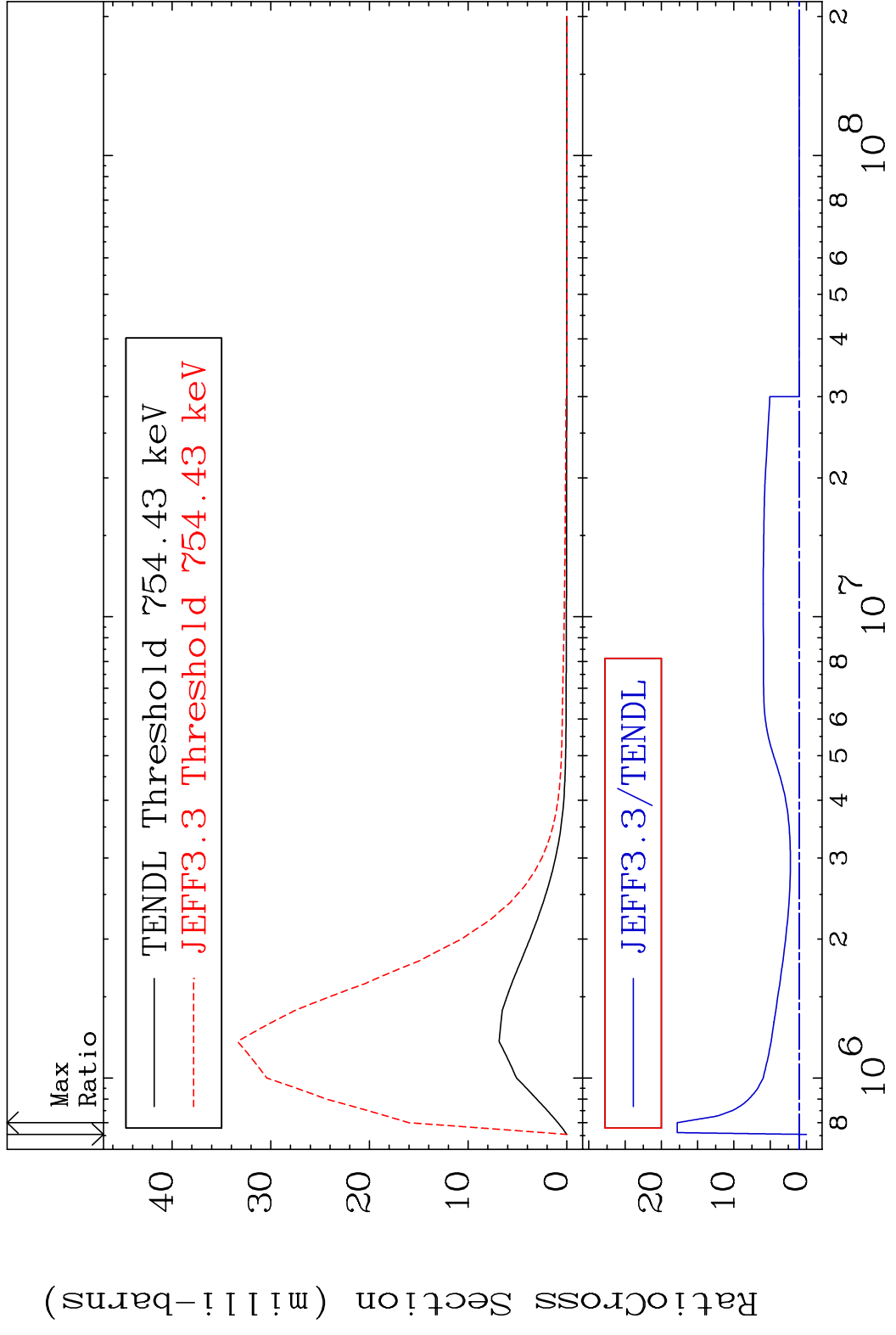


MAT 7322 MT= 70 (n,n') Level 73-Ta-179  
 Cross Section -100.0 To 500.6 %



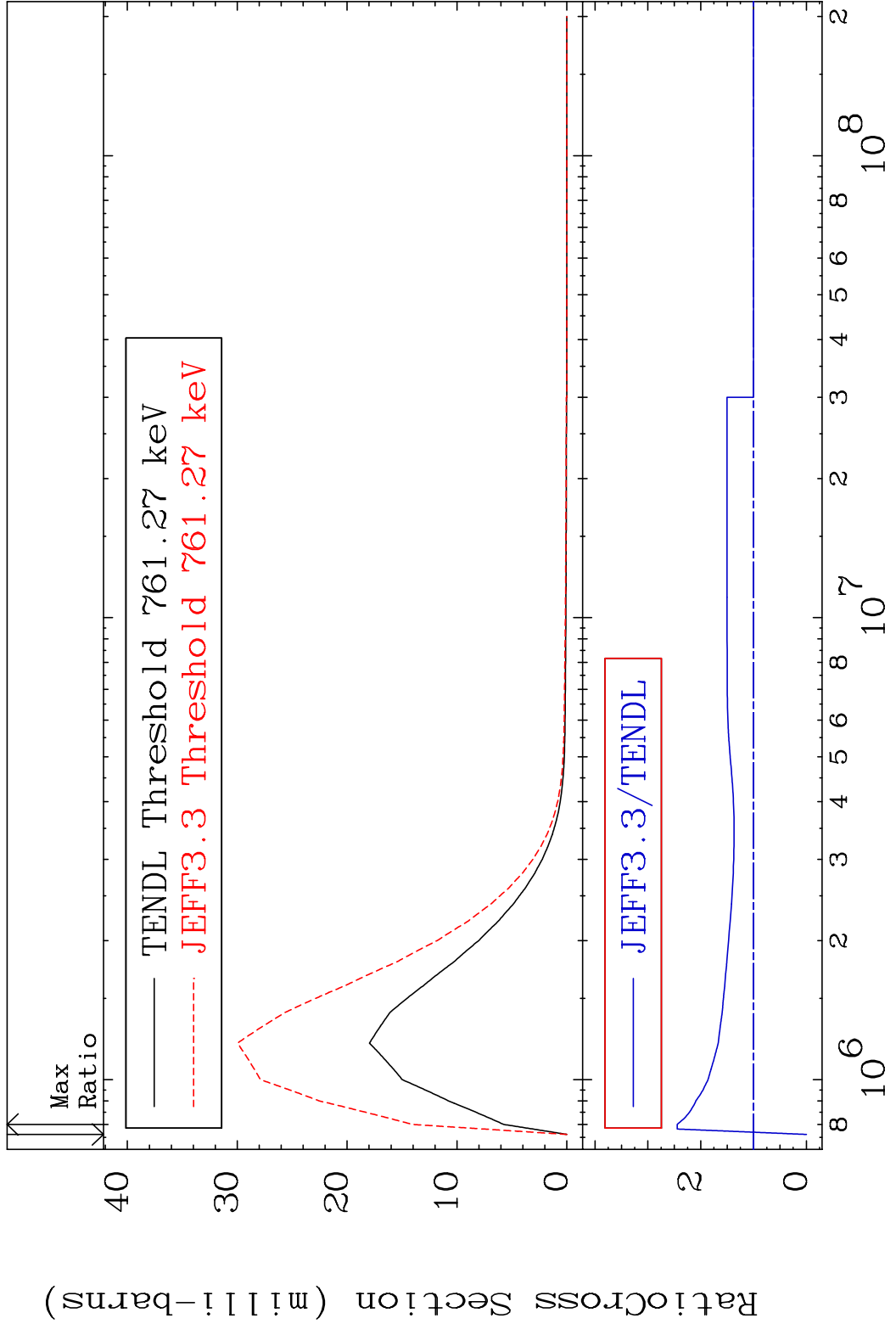


MAT 7322 MT= 71 (n, n') Level 73-Ta-179  
 Cross Section -100.0 To 1682. %

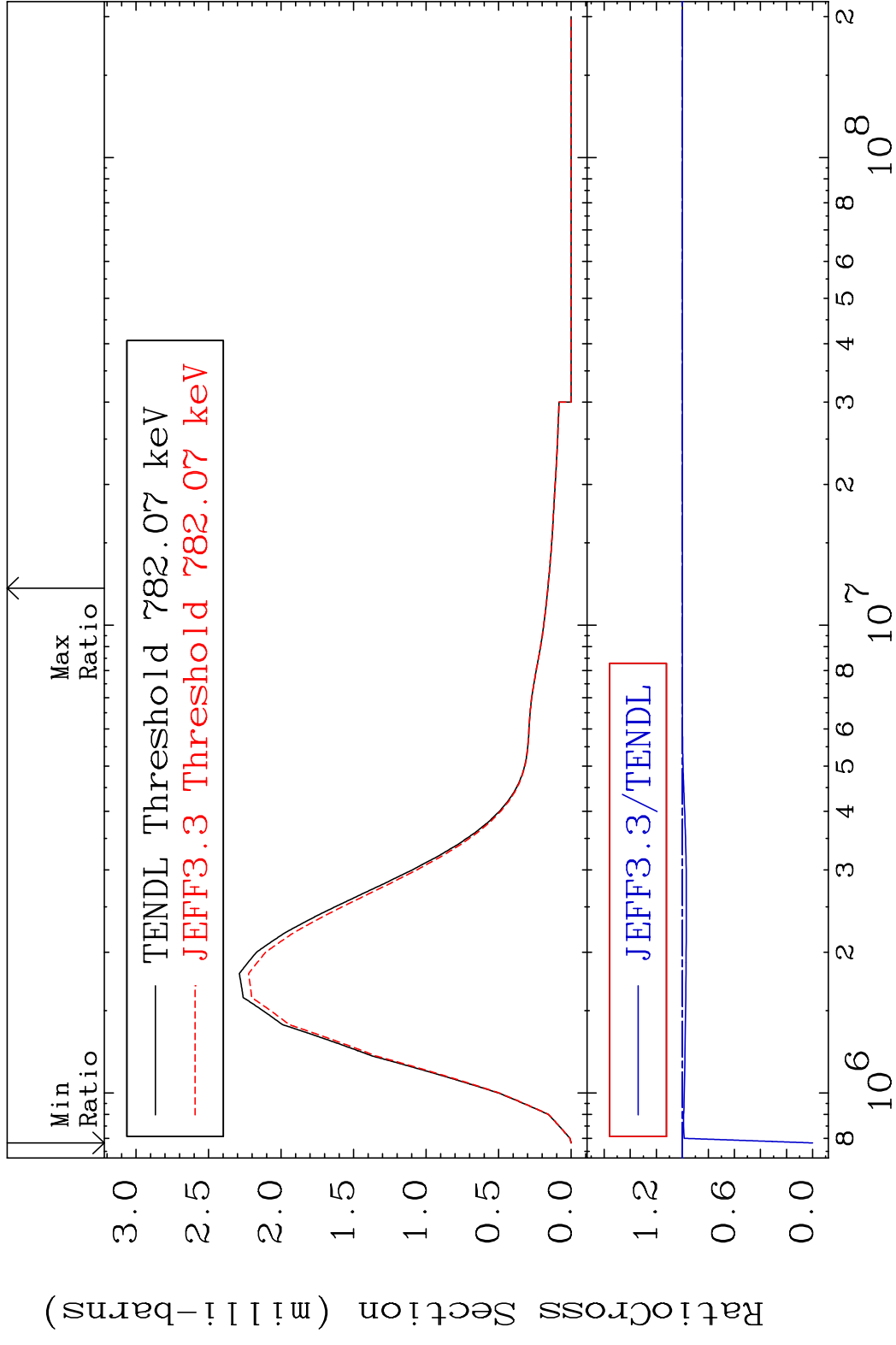


40 20 10 0 0 10 20 30 40 50 60 70 80 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup> 73-Ta-179

MAT 7322 MT= 72 (n,n') Level 73-Ta-179  
 Cross Section -100.0 To 144.6 %



MAT 7322 MT= 73 (n, n') Level 73-Ta-179  
 Cross Section -100.0 To 0.000 %

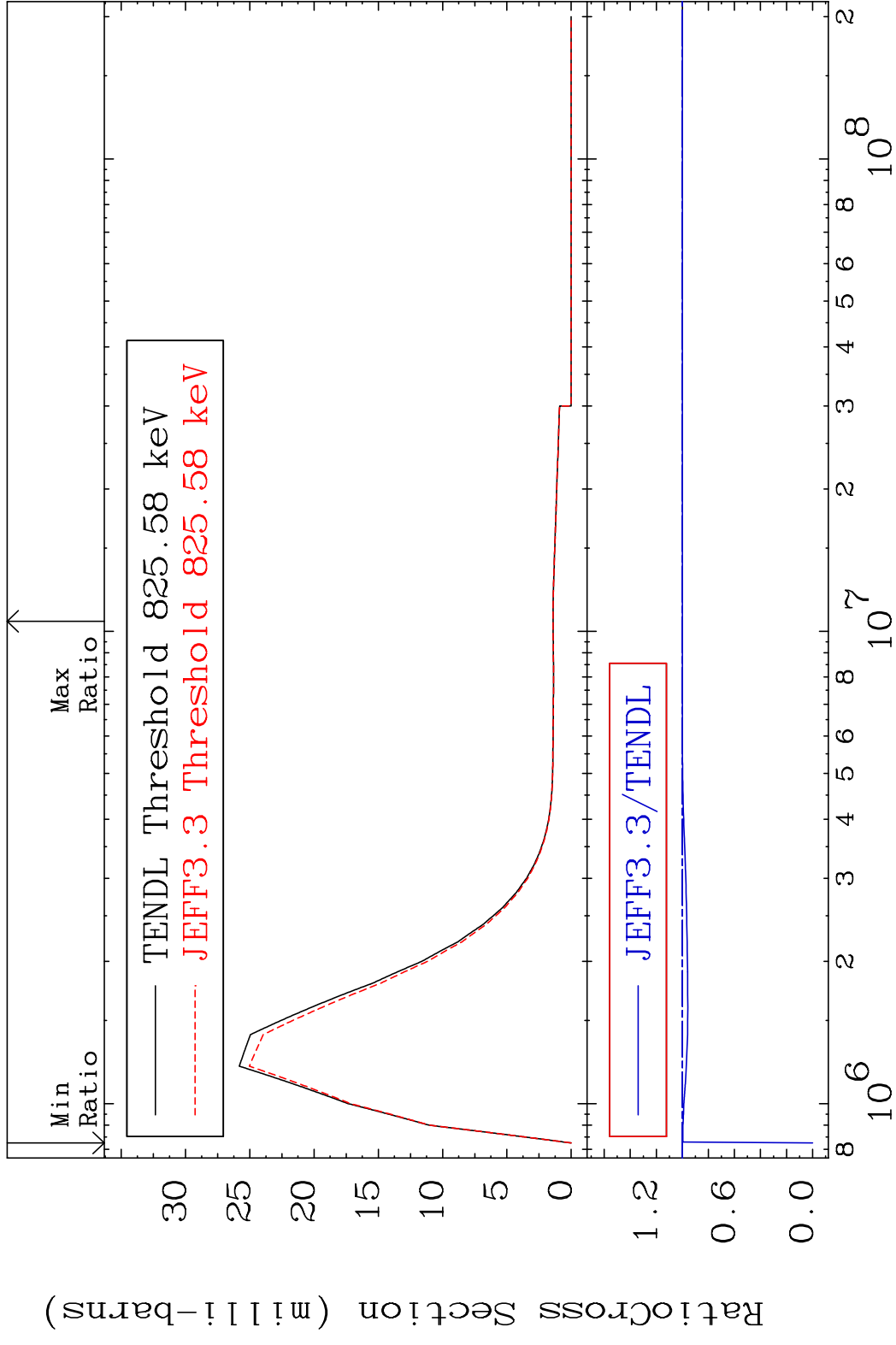


MAT 7322

MT= 74 (n, n') Level

73-Ta-179

Cross Section -100.0 To 0.000 %

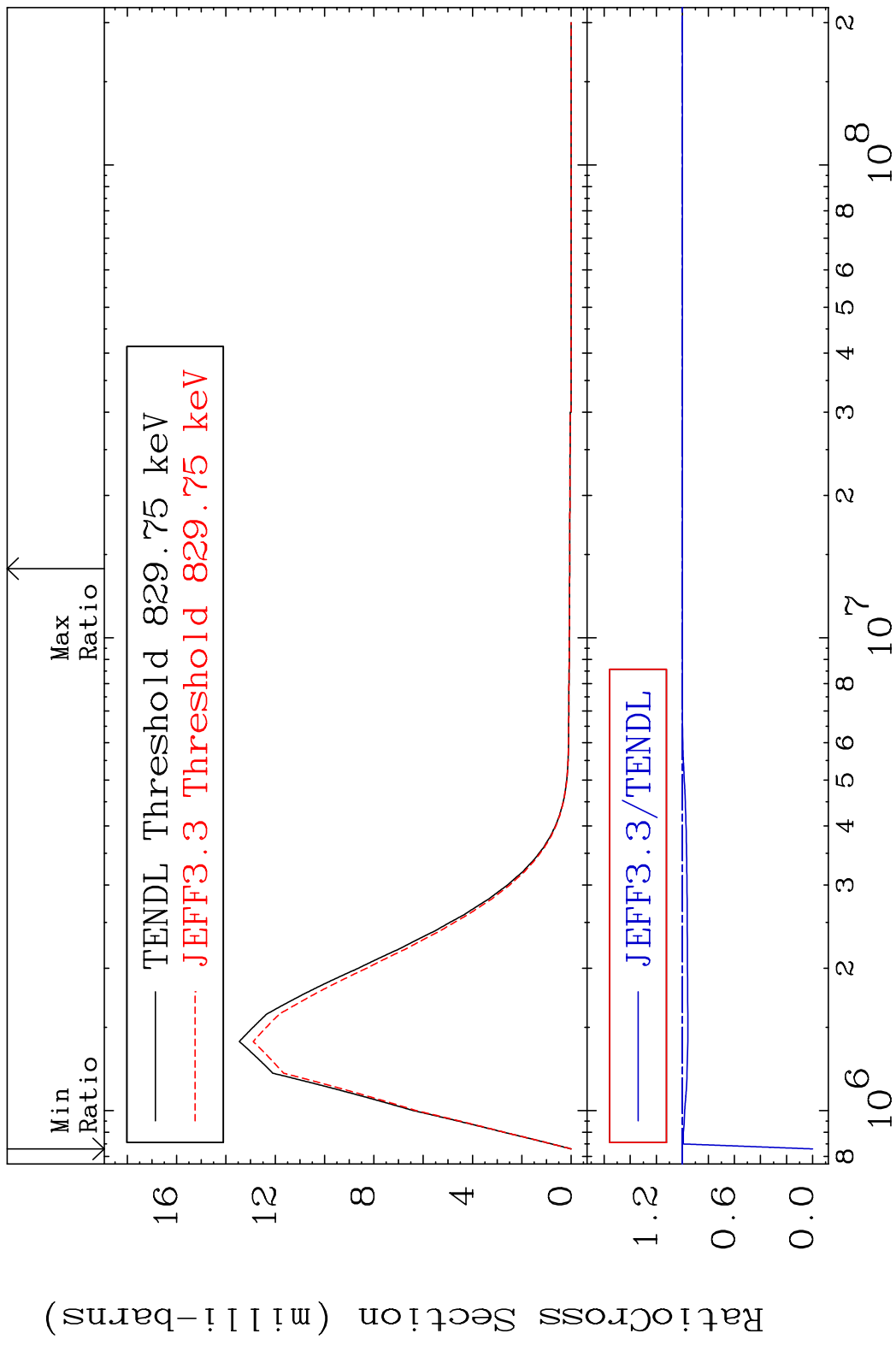


43

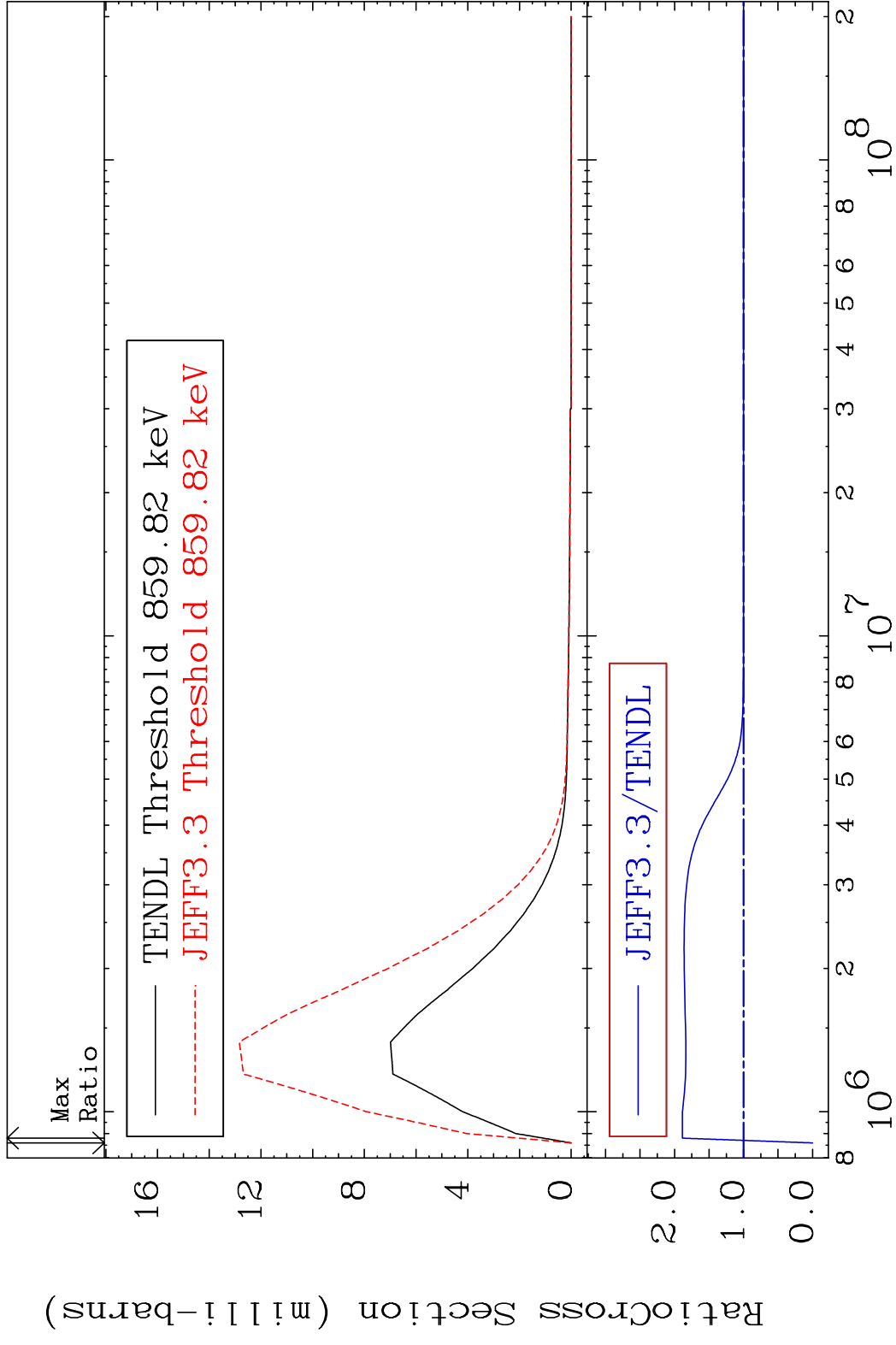
Incident Energy (eV)

73-Ta-179

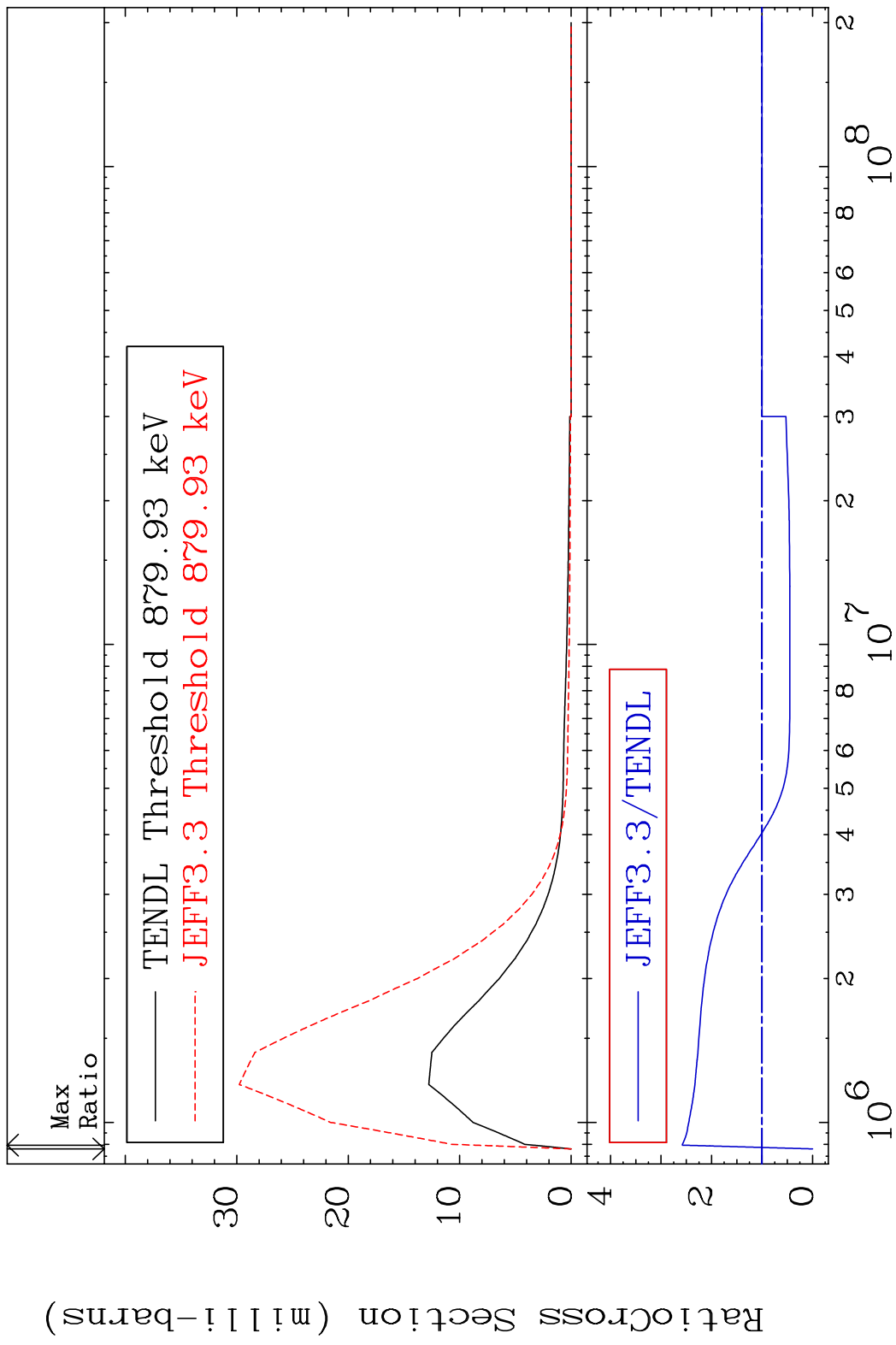
MAT 7322 MT= 75 (n, n') Level 73-Ta-179  
 Cross Section -100.0 To 0.000 %



MAT 7322 MT= 76 (n,n') Level 73-Ta-179  
 Cross Section -100.0 To 88.69 %

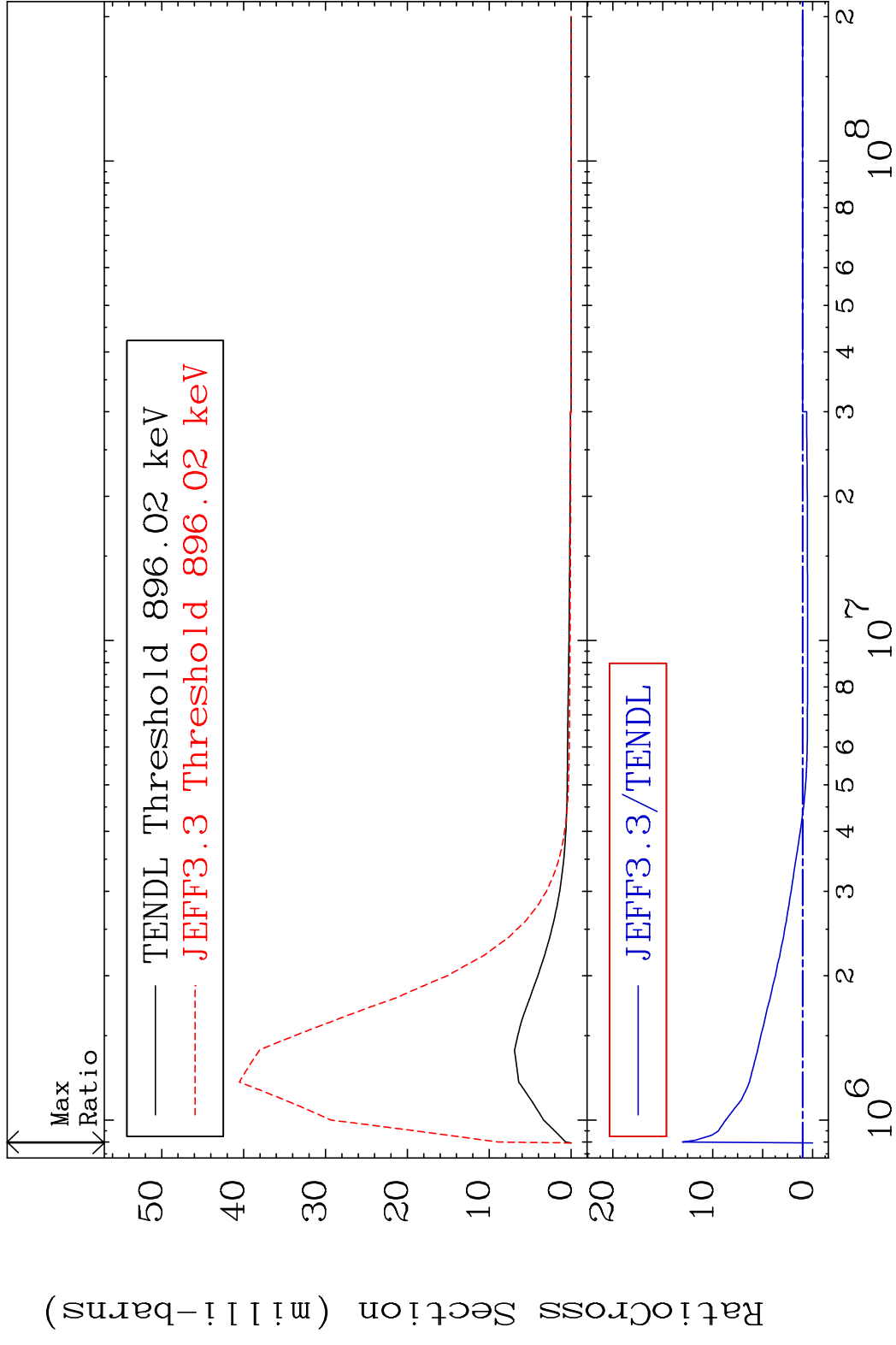


MAT 7322 MT= 77 (n,n') Level 73-Ta-179  
 Cross Section -100.0 To 157.8 %



46 Incident Energy (eV) 73-Ta-179

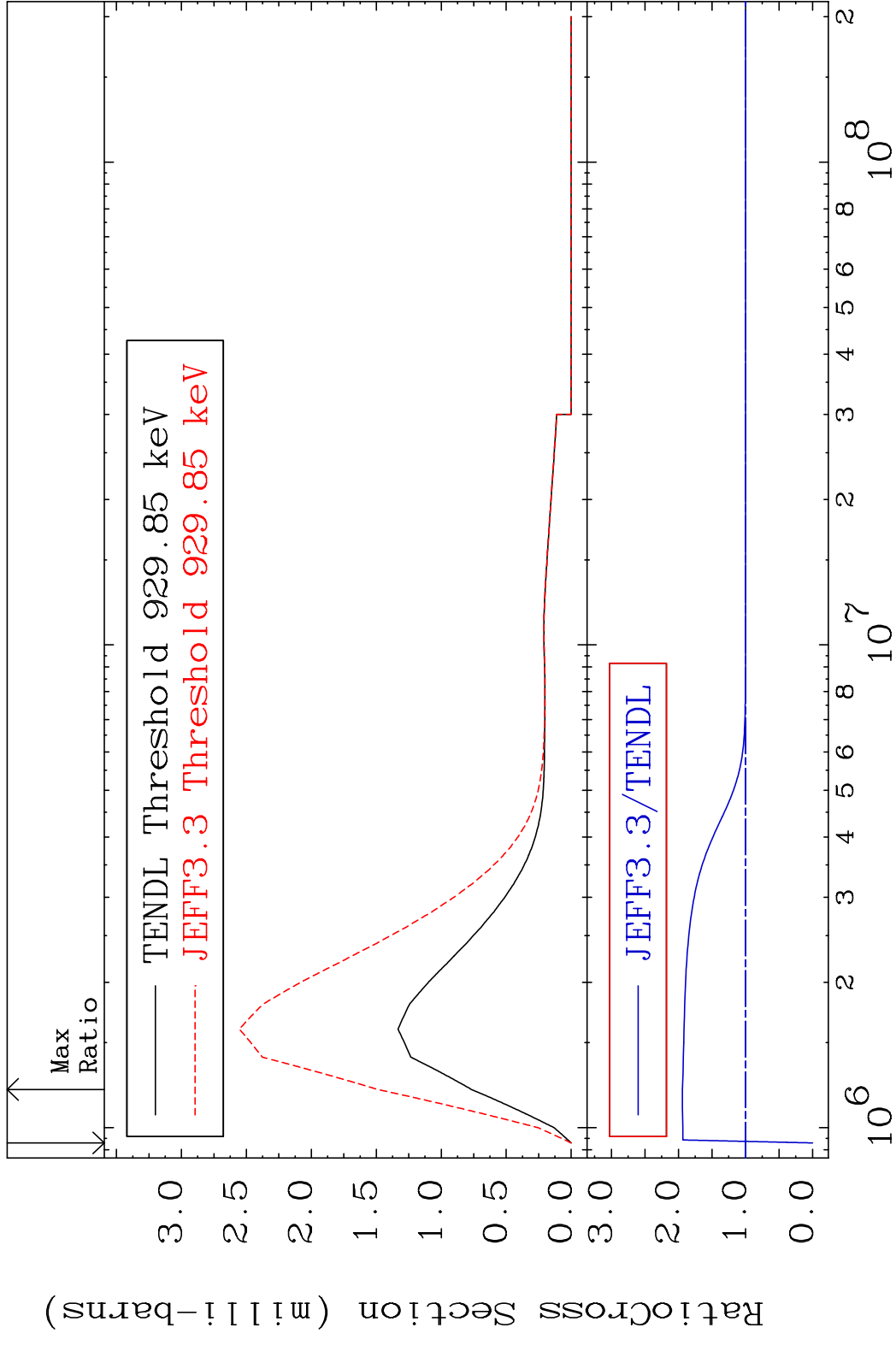
MAT 7322 MT= 78 (n, n') Level 73-Ta-179  
 Cross Section -100.0 To 1203. %



47 Incident Energy (eV) 73-Ta-179

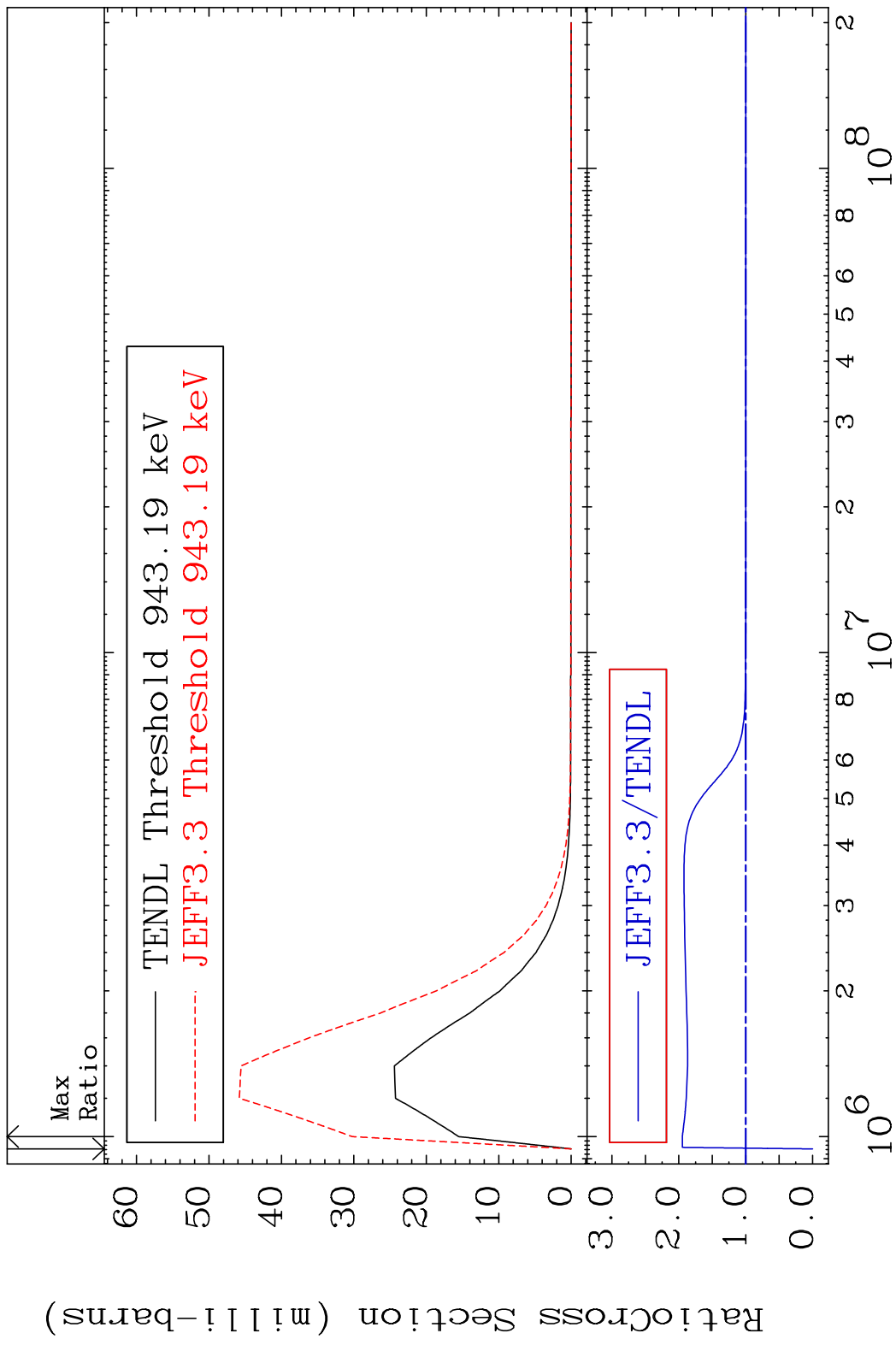


MAT 7322 MT= 79 (n, n') Level 73-Ta-179  
 Cross Section -100.0 To 94.14 %



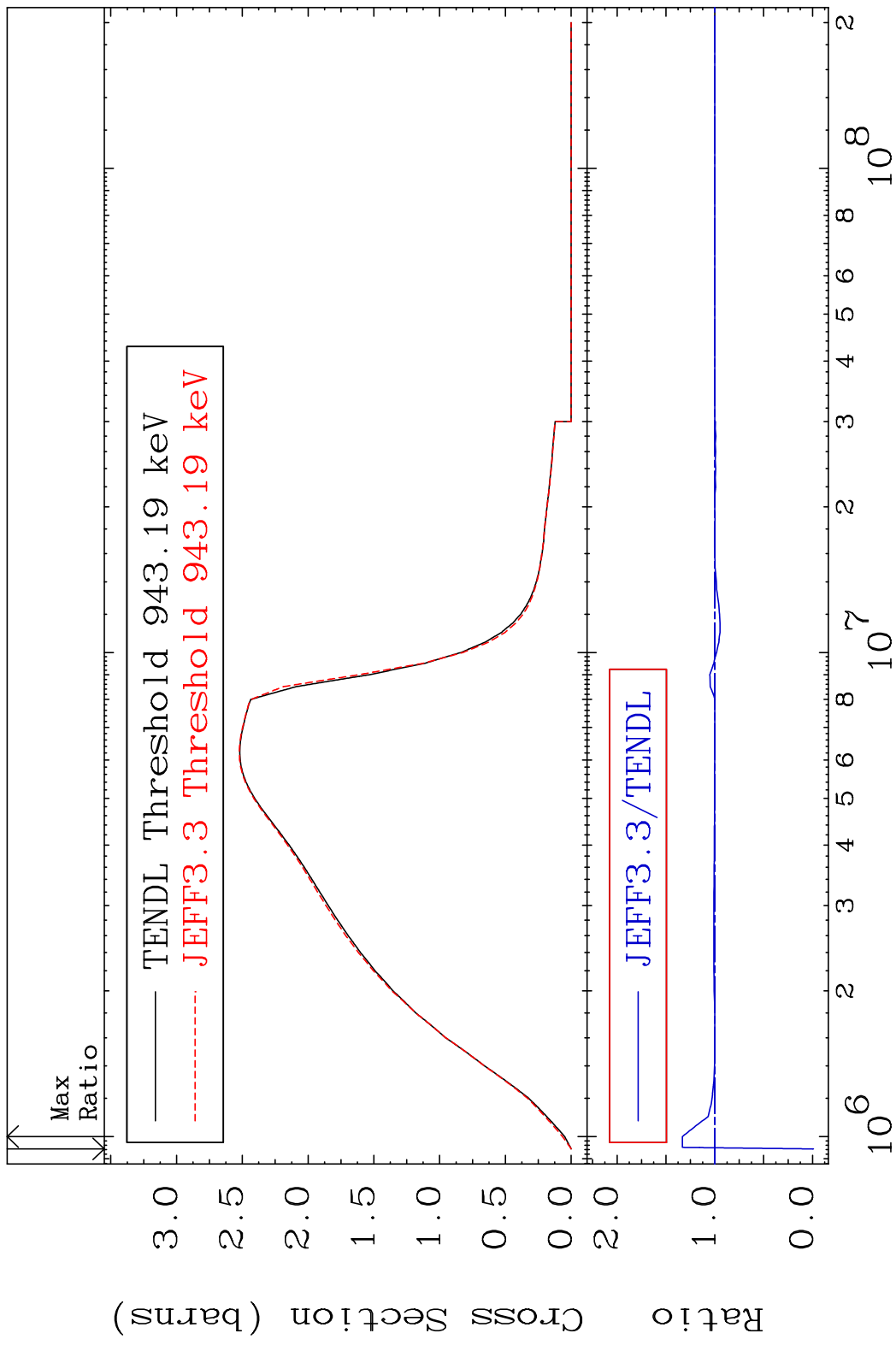
48 Incident Energy (eV) 73-Ta-179

MAT 7322 MT= 80 (n, n') Level 73-Ta-179  
 Cross Section -100.0 To 94.70 %



49 Incident Energy (eV) 73-Ta-179

MAT 7322 (n, n') Continuum 73-Ta-179  
 Cross Section -100.0 To 33.20 %

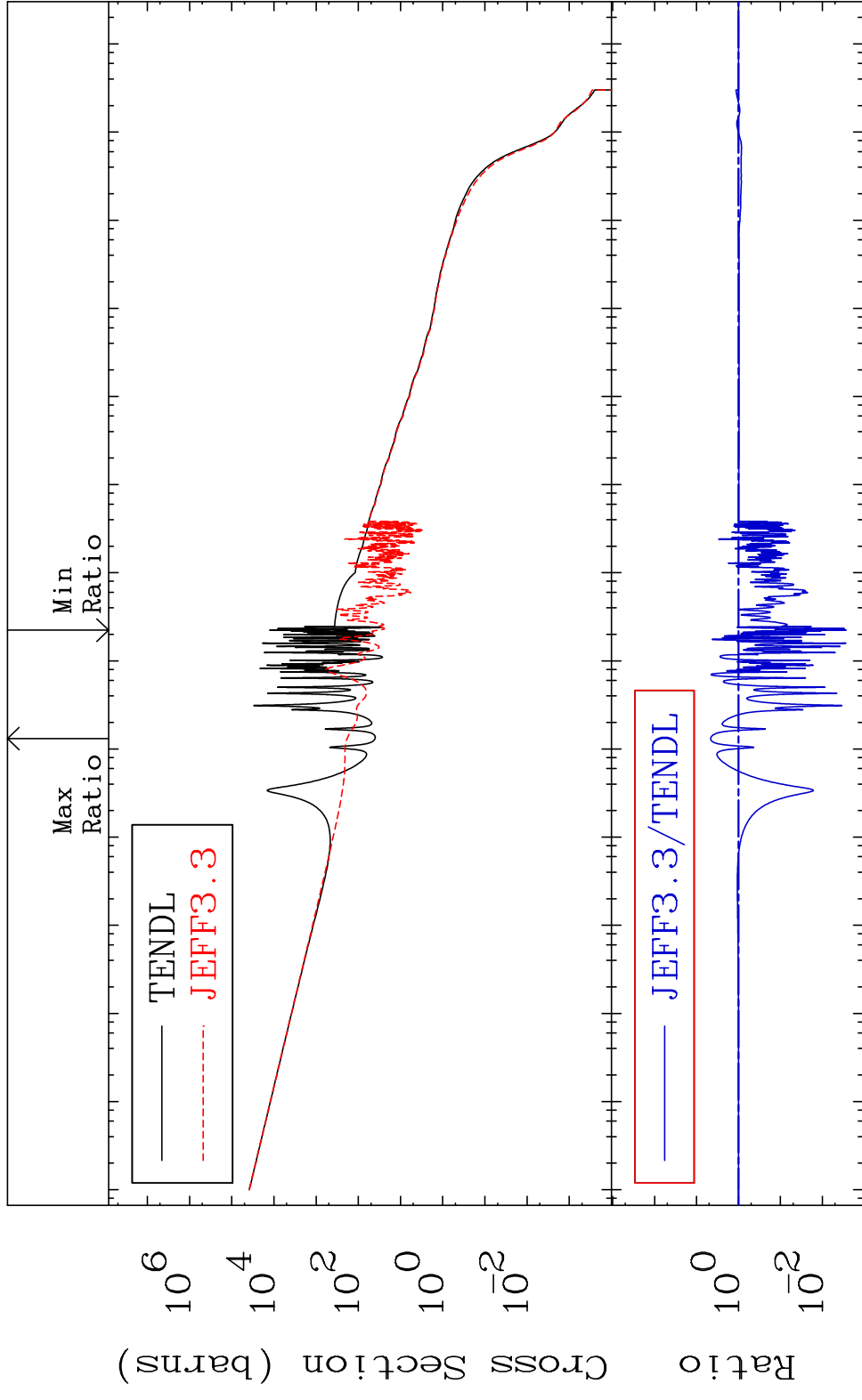


50 Incident Energy (eV) 73-Ta-179

MAT 7322

(n,  $\gamma$ )  
Cross Section -99.73 To 359.8 %

73-Ta-179



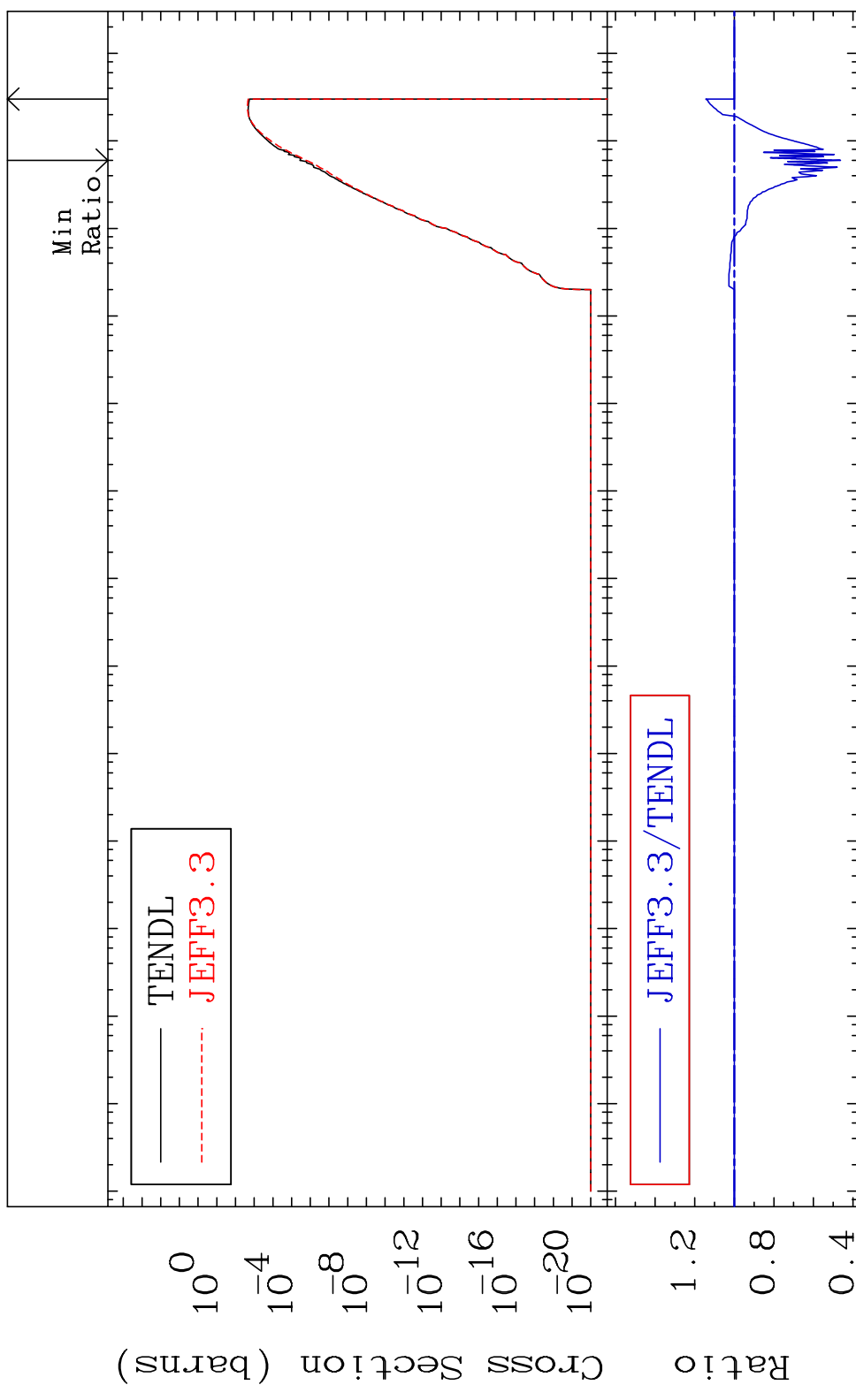
MAT 7322

(n,p)

73-Ta-179

Cross Section

-53.63 To 14.40 %

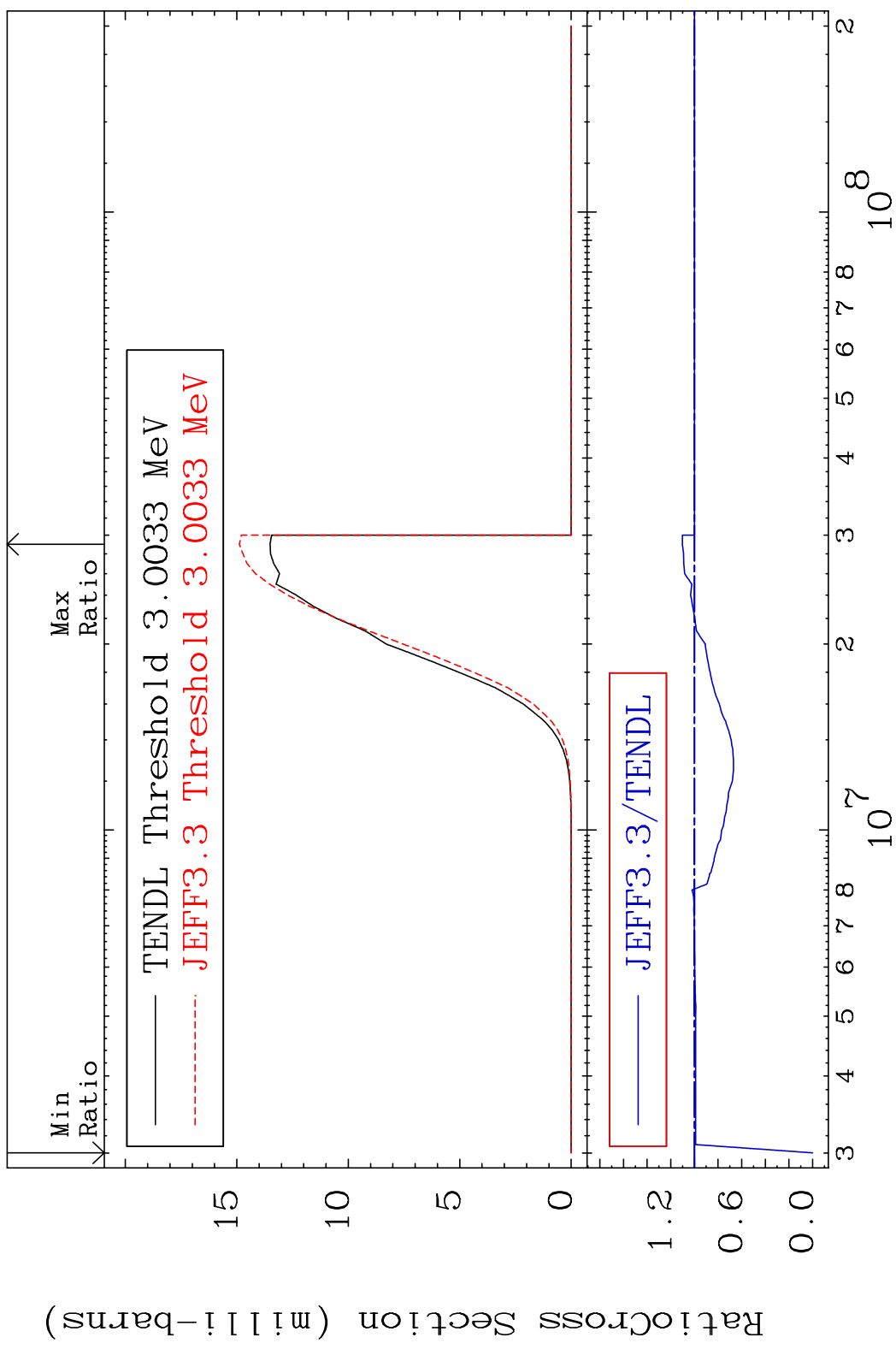


MAT 7322

(n, d)

73-Ta-179

Cross Section -100.0 To 10.20 %

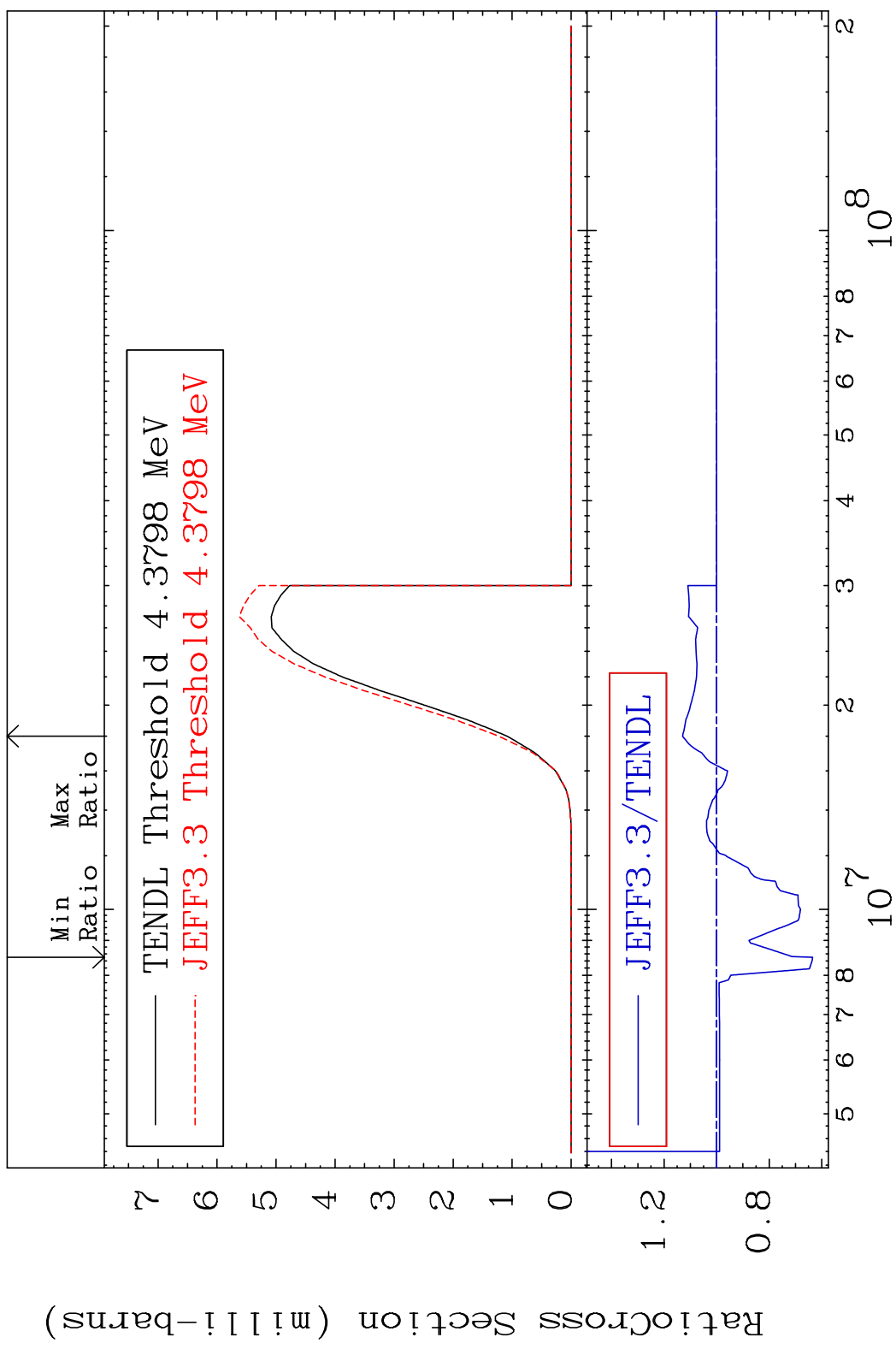


MAT 7322

(n, t)

73-Ta-179

Cross Section -36.52 To 13.05 %

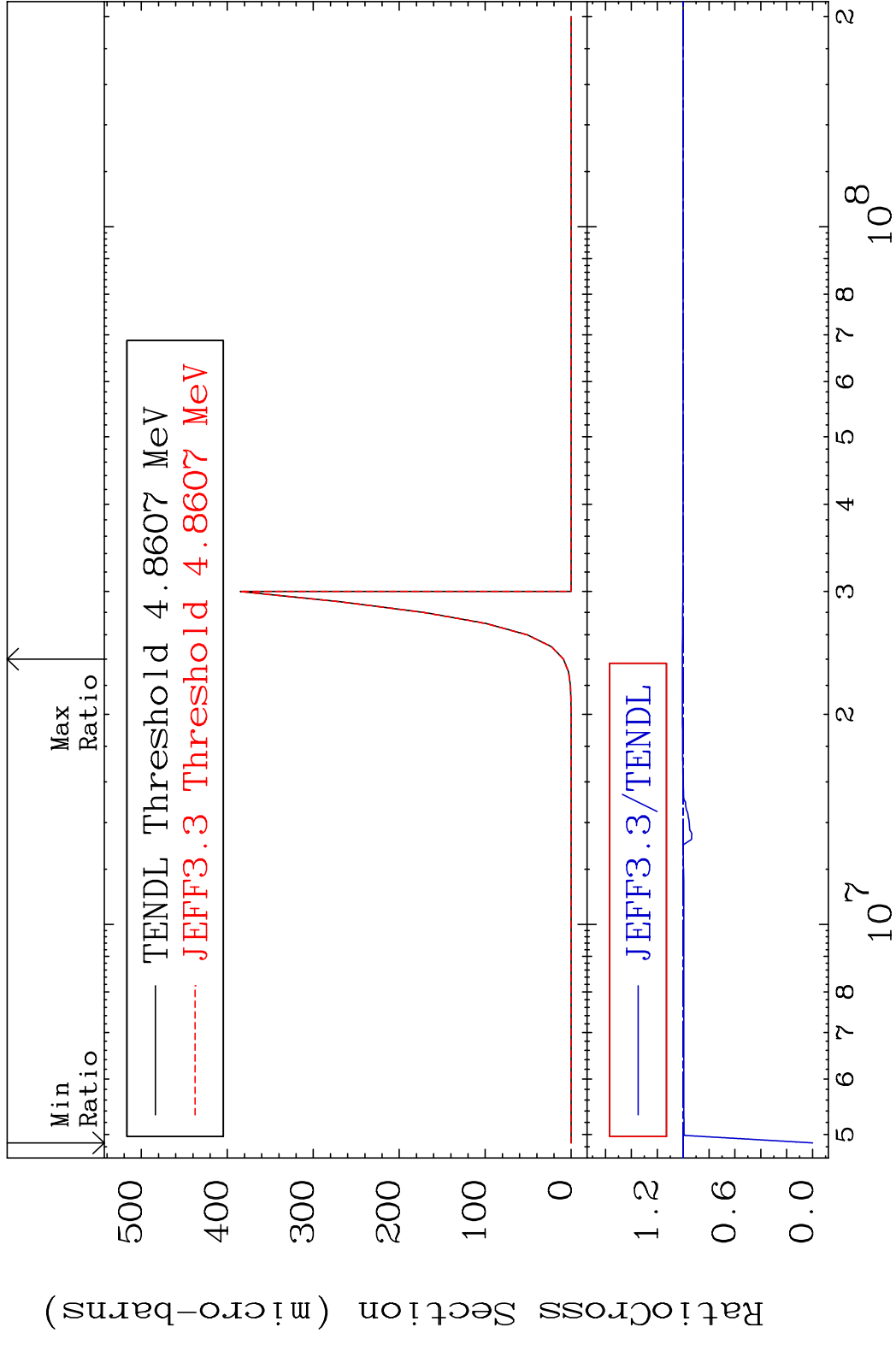


MAT 7322

(n, He-3)

73-Ta-179

Cross Section -100.0 To 0.611 %



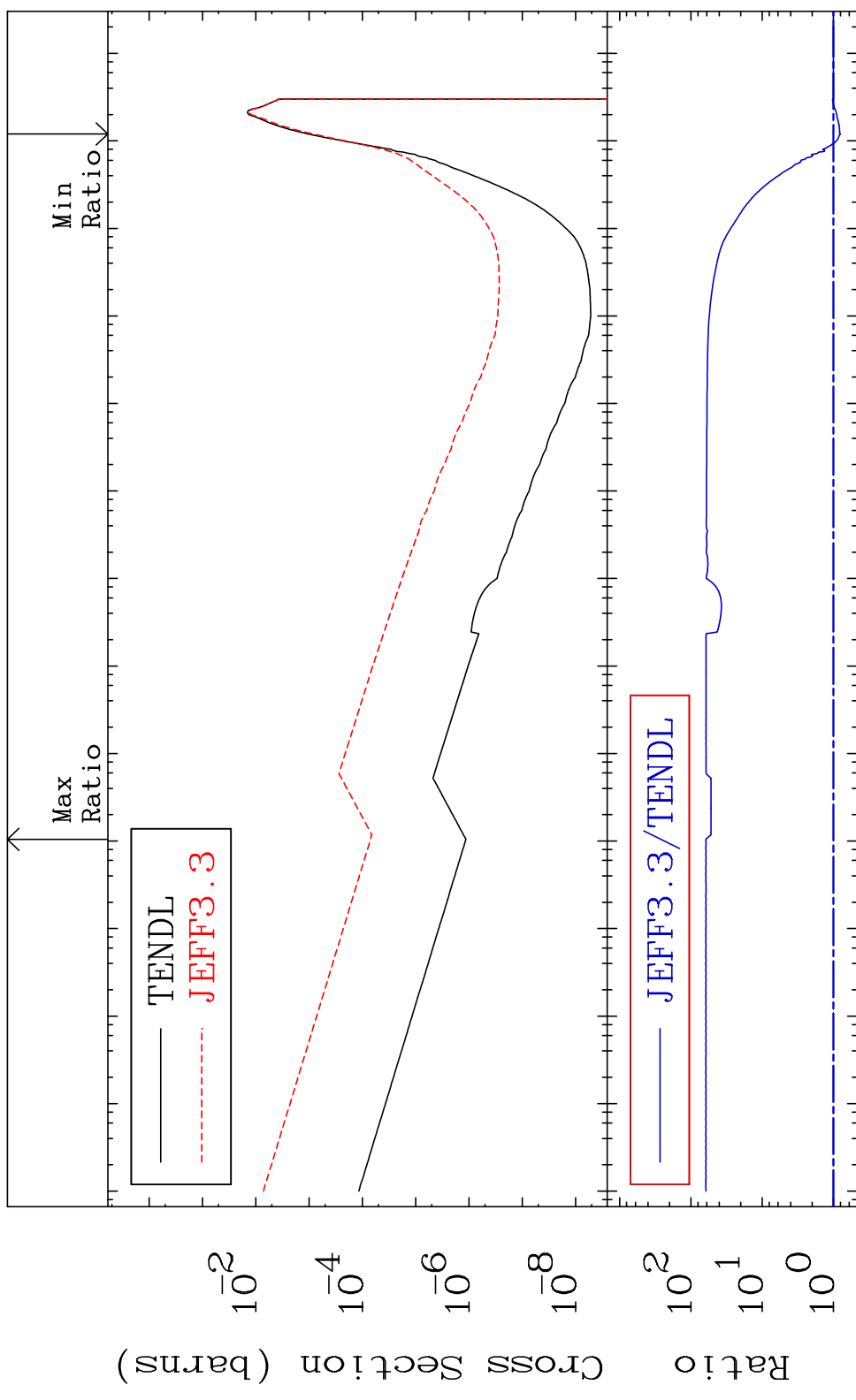


MAT 7322

(n,  $\alpha$ )

73-Ta-179

Cross Section -20.03 To 6107. %



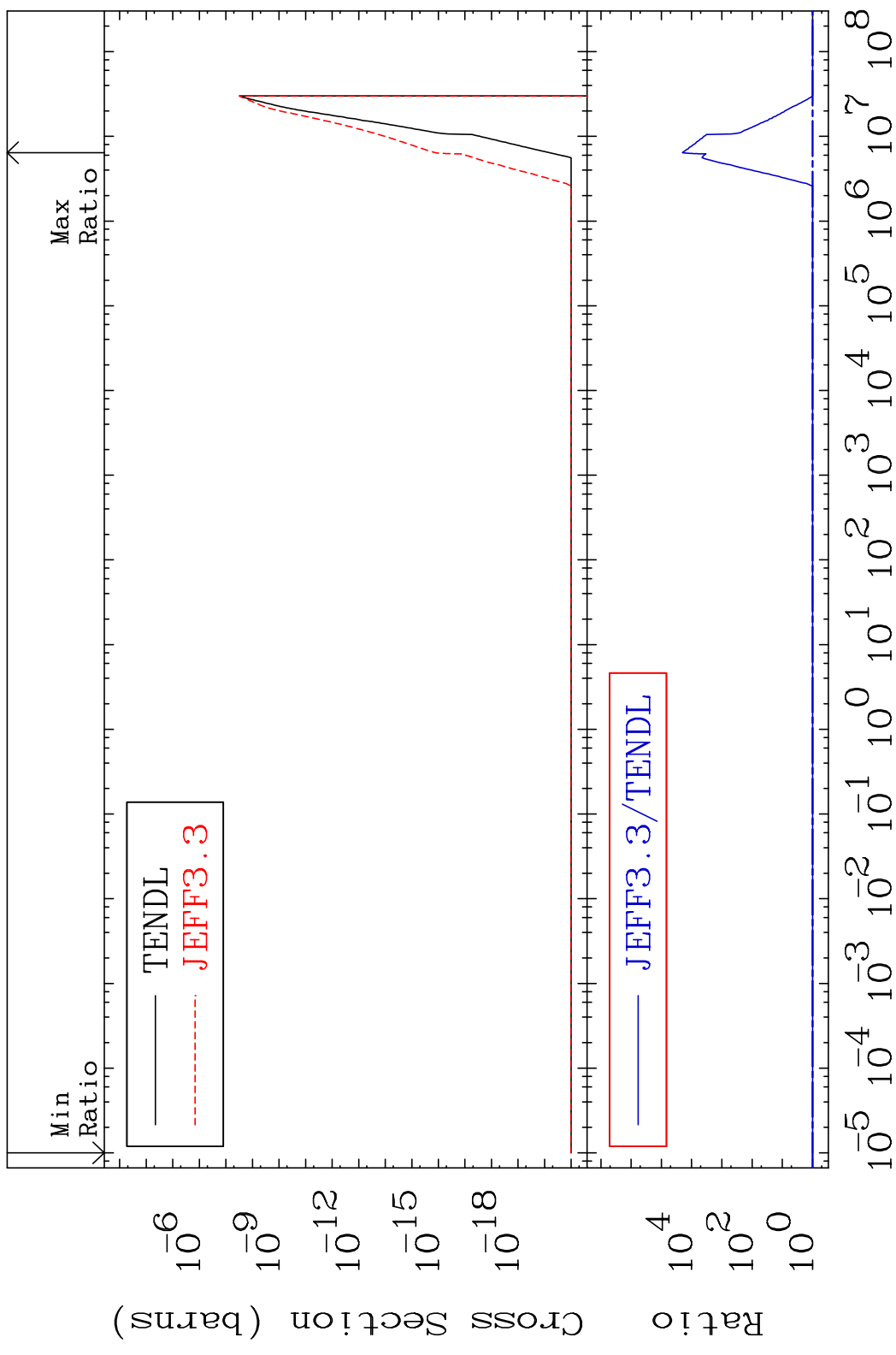
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

MAT 7322

(n,2α)

73-Ta-179

Cross Section 0.000 To 9999. %

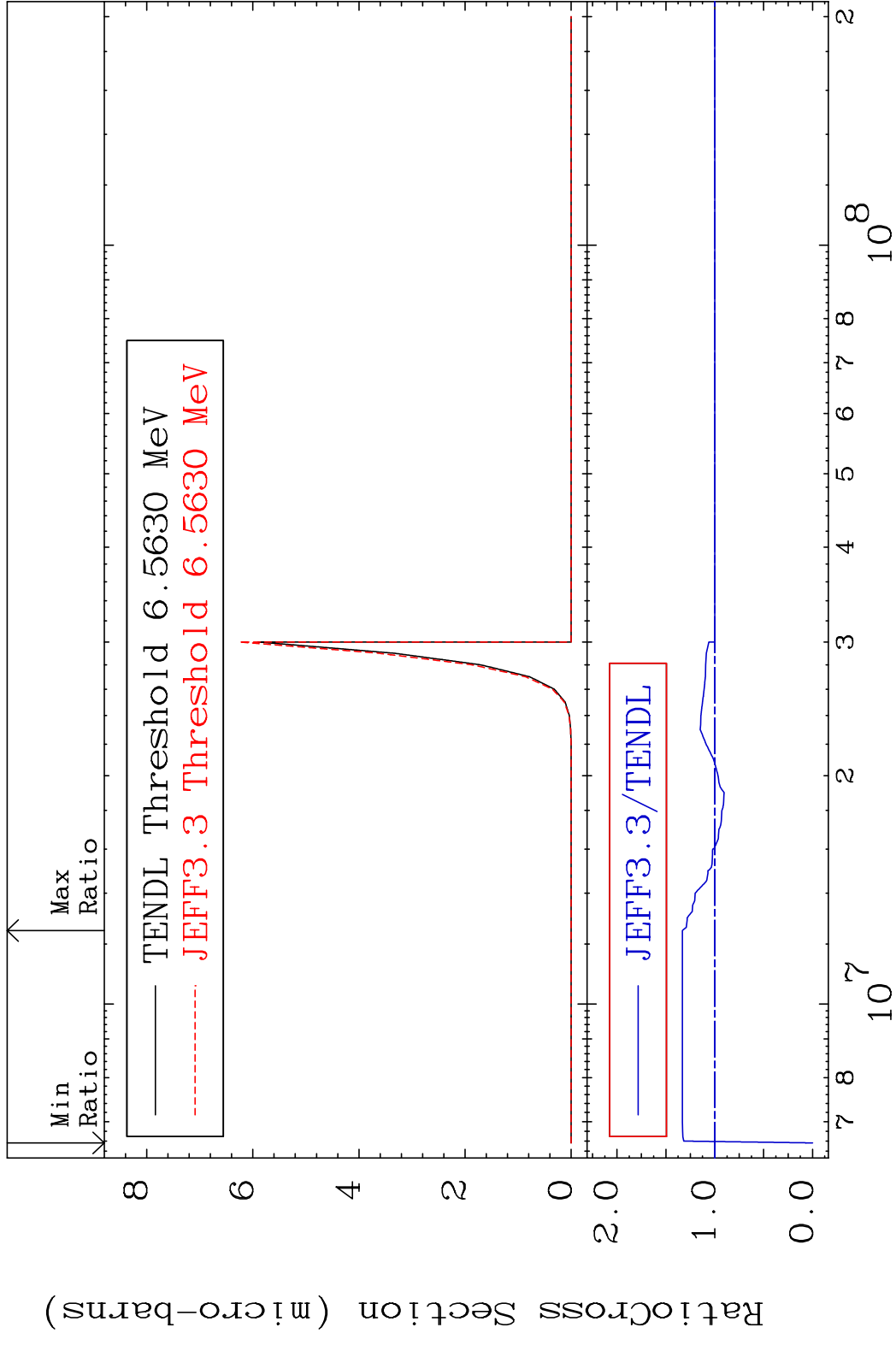


MAT 7322

(n,2p)

73-Ta-179

Cross Section -100.0 To 33.15 %

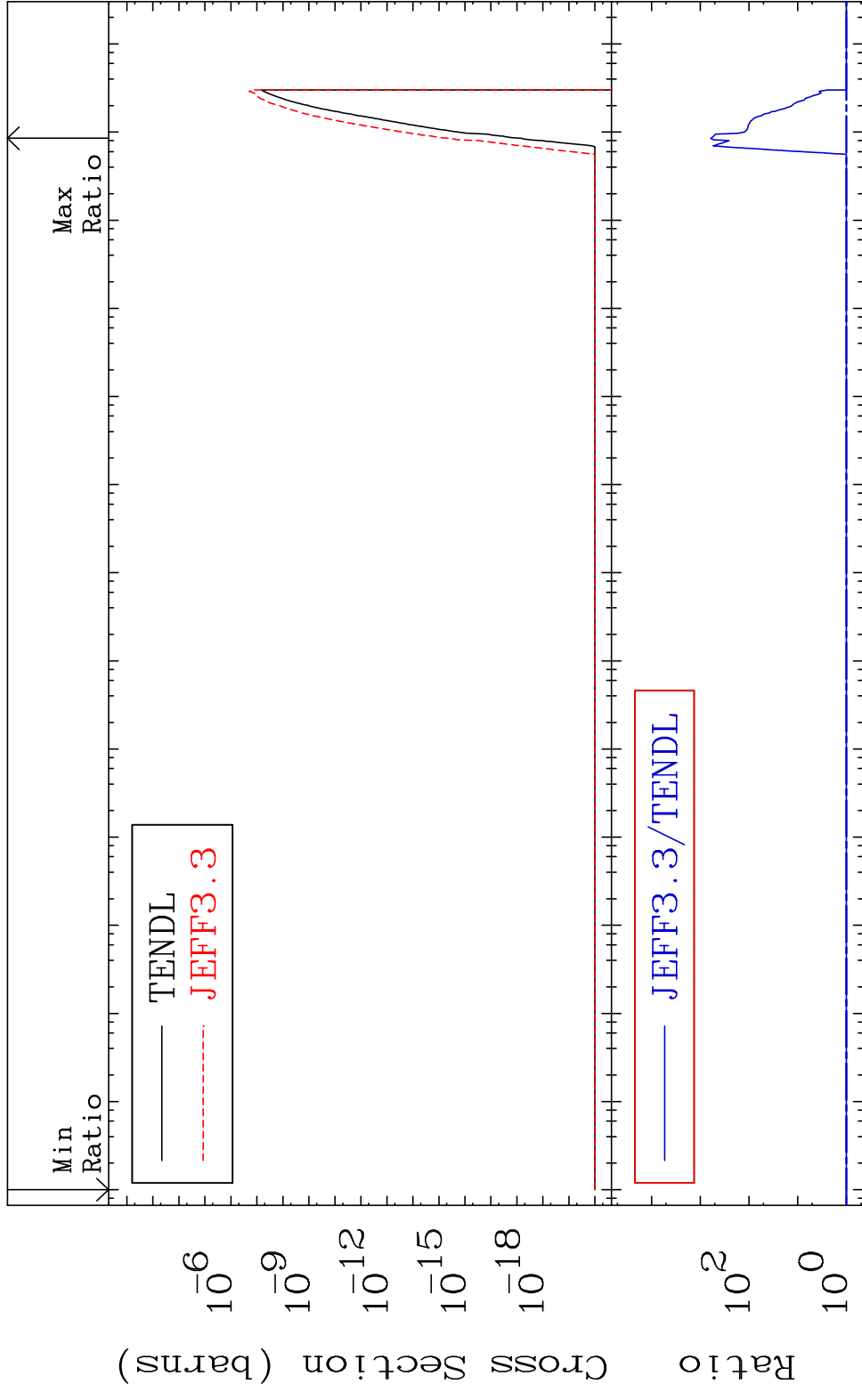


MAT 7322

(n,p)  $\alpha$

73-Ta-179

Cross Section 0.000 To 9999. %

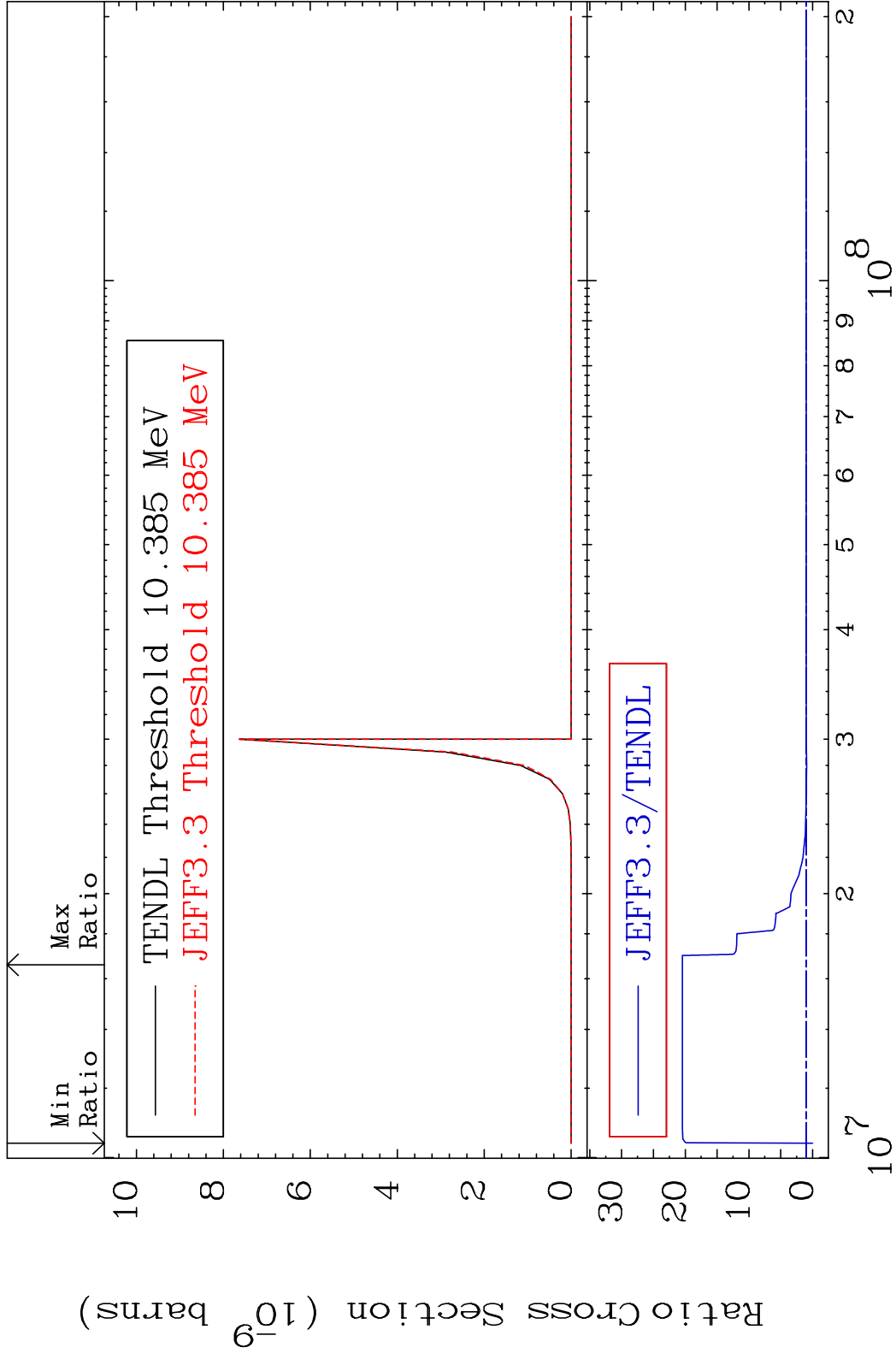


MAT 7322

(n,p) d

73-Ta-179

Cross Section -100.0 To 1946. %

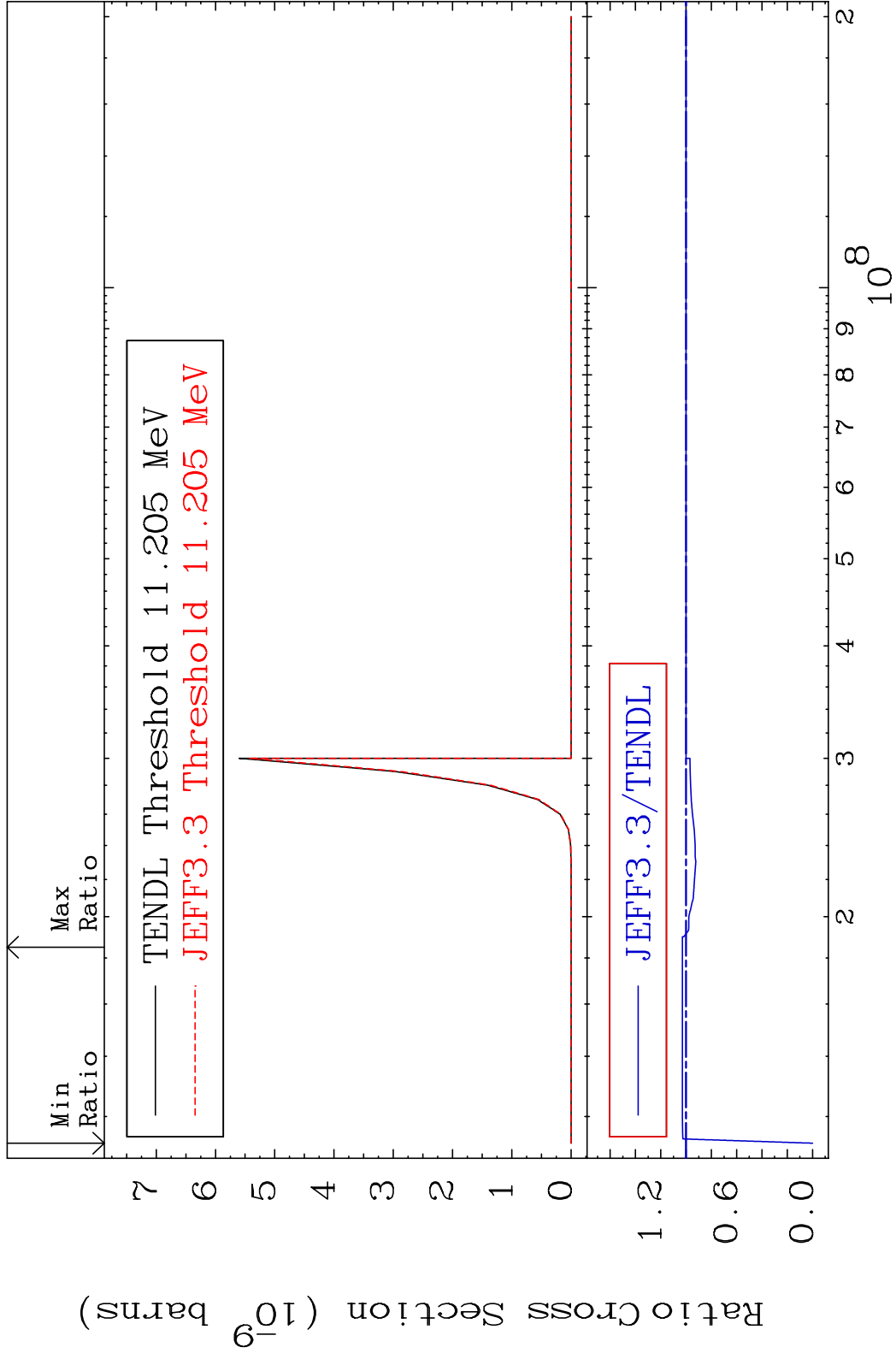


60

Incident Energy (eV)

73-Ta-179

MAT 7322 (n,p) t 73-Ta-179  
 Cross Section -100.0 To 2.950 %

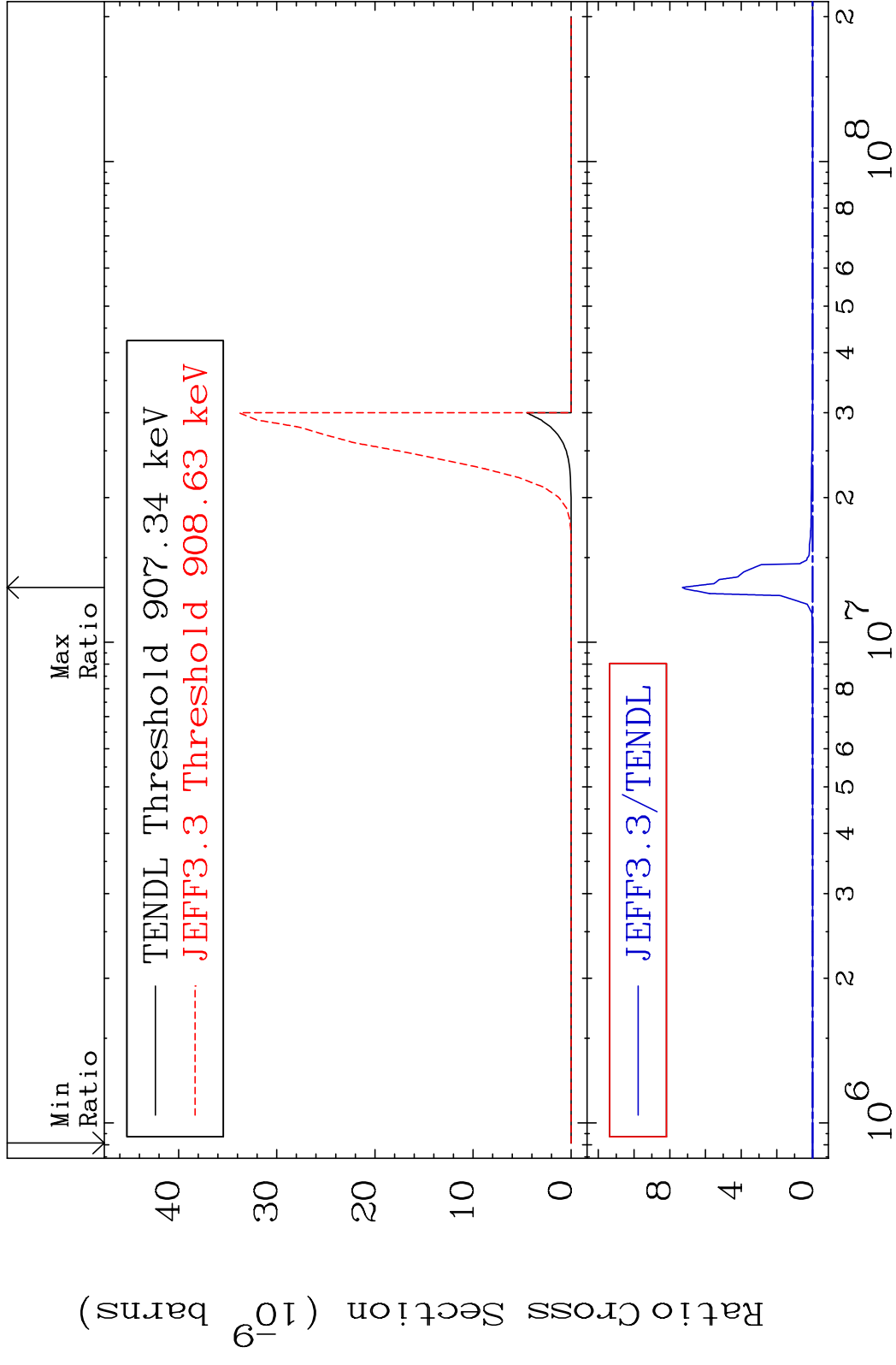


MAT 7322

(n, d)  $\alpha$

73-Ta-179

Cross Section -100.0 To 9999. %



62

Incident Energy (eV)

73-Ta-179

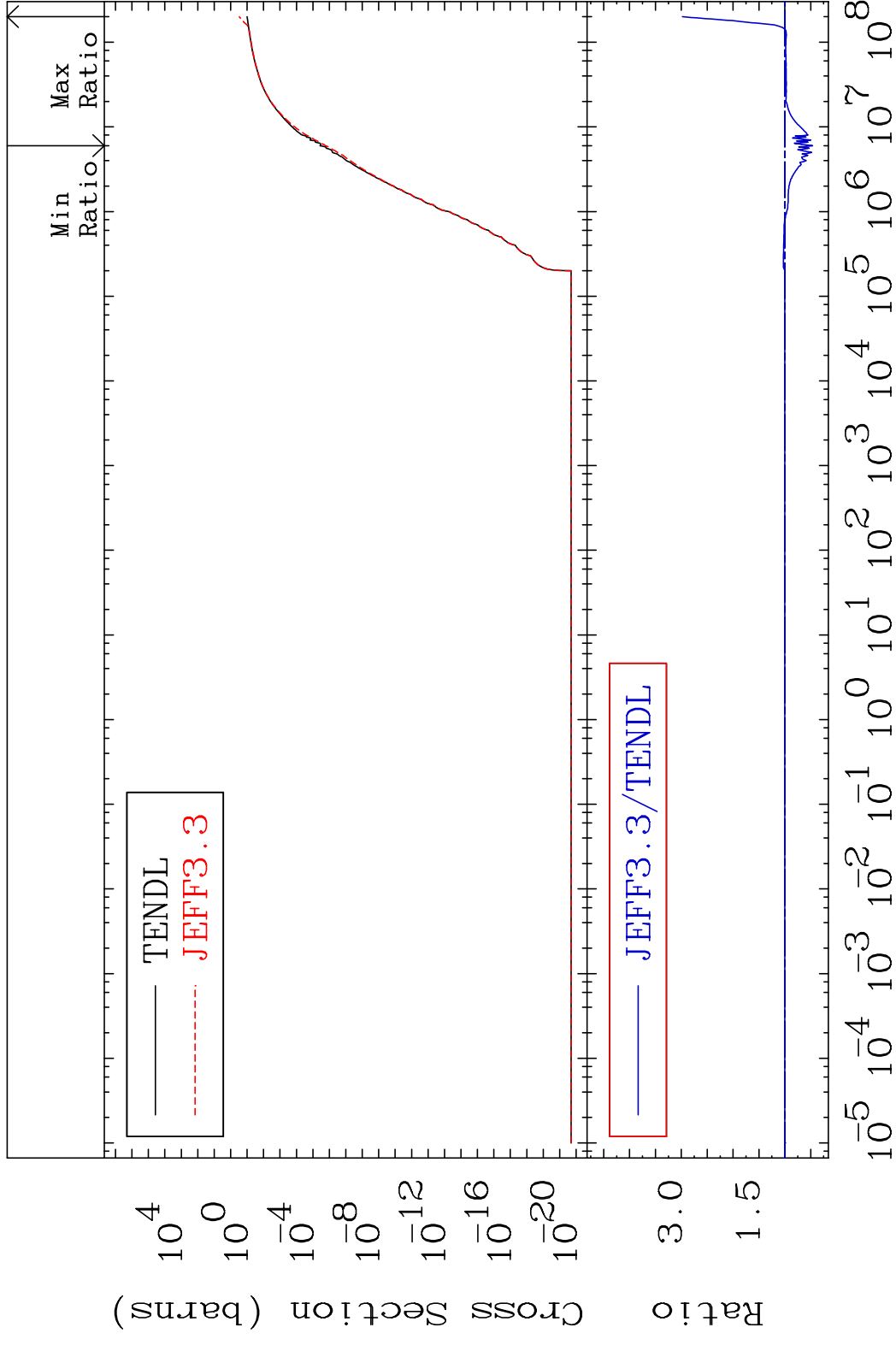
MAT 7322

Hydrogen Production

73-Ta-179

Cross Section

-53.63 To 198.0 %



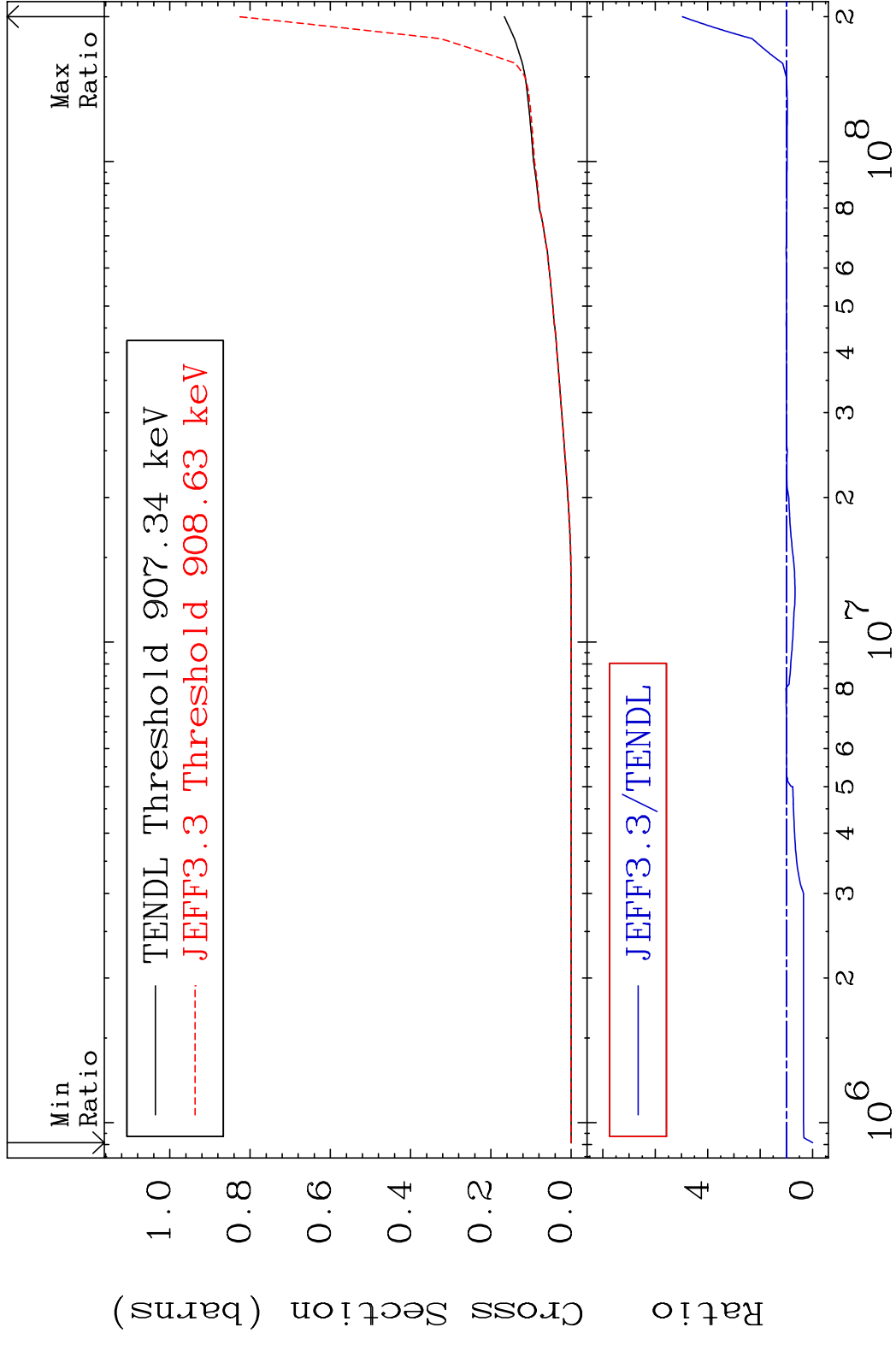


MAT 7322

Deuterium Production

73-Ta-179

Cross Section -100.0 To 396.7 %



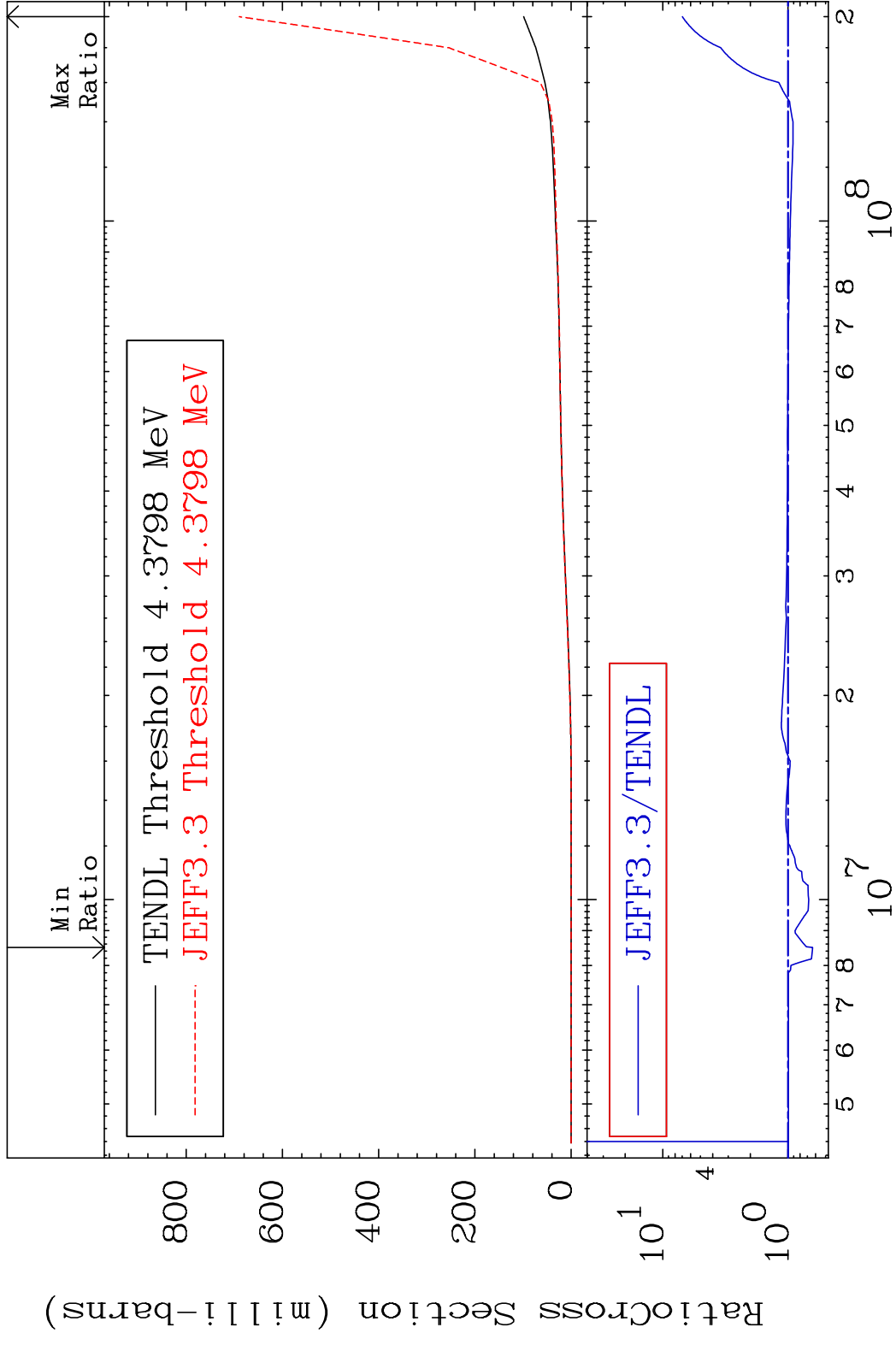
64

Incident Energy (eV)

73-Ta-179

MAT 7322

Tritium Production 73-Ta-179  
Cross Section -36.52 To 598.4 %

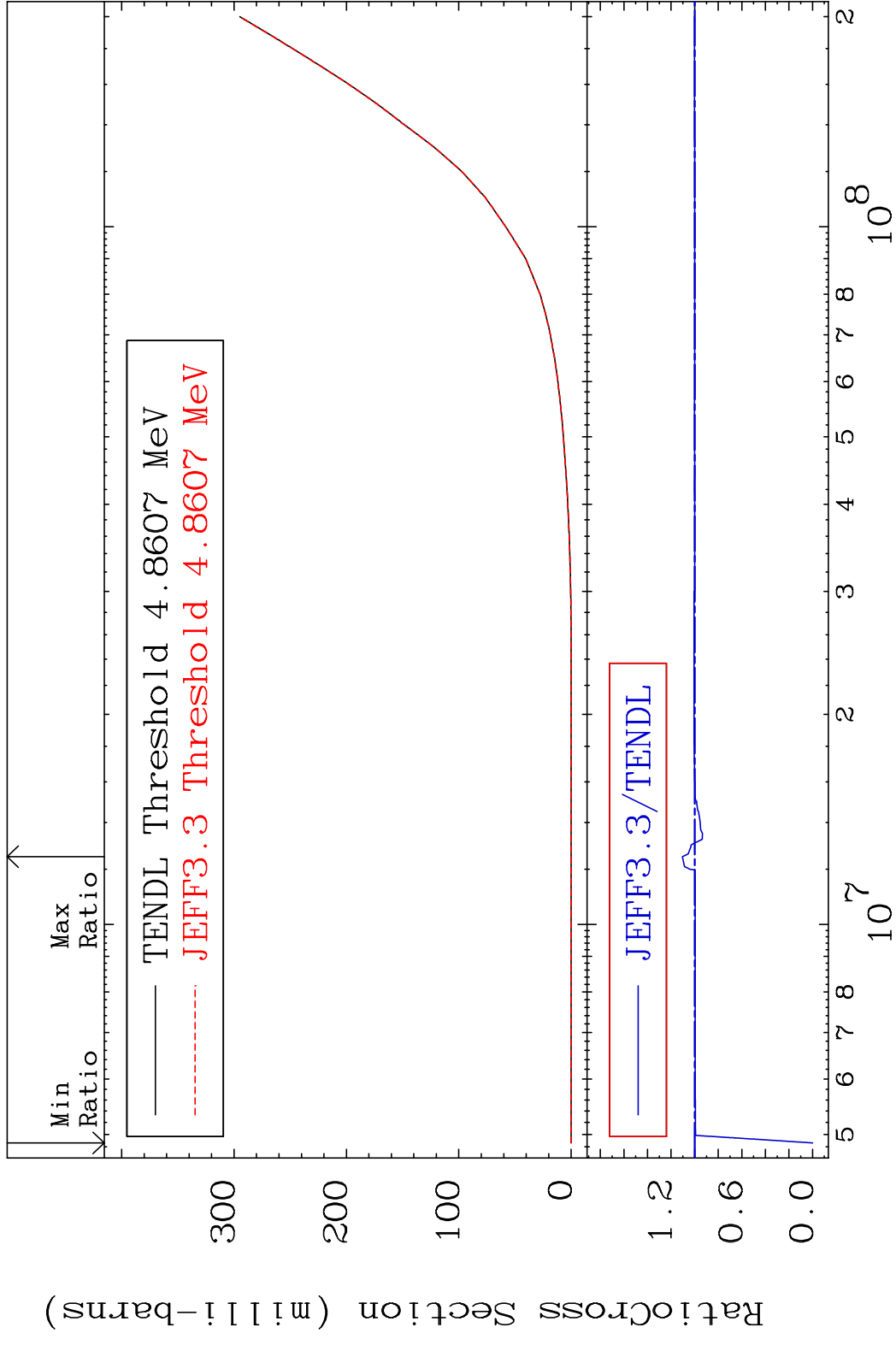


MAT 7322

He-3 Production

73-Ta-179

Cross Section -100.0 To 10.44 %

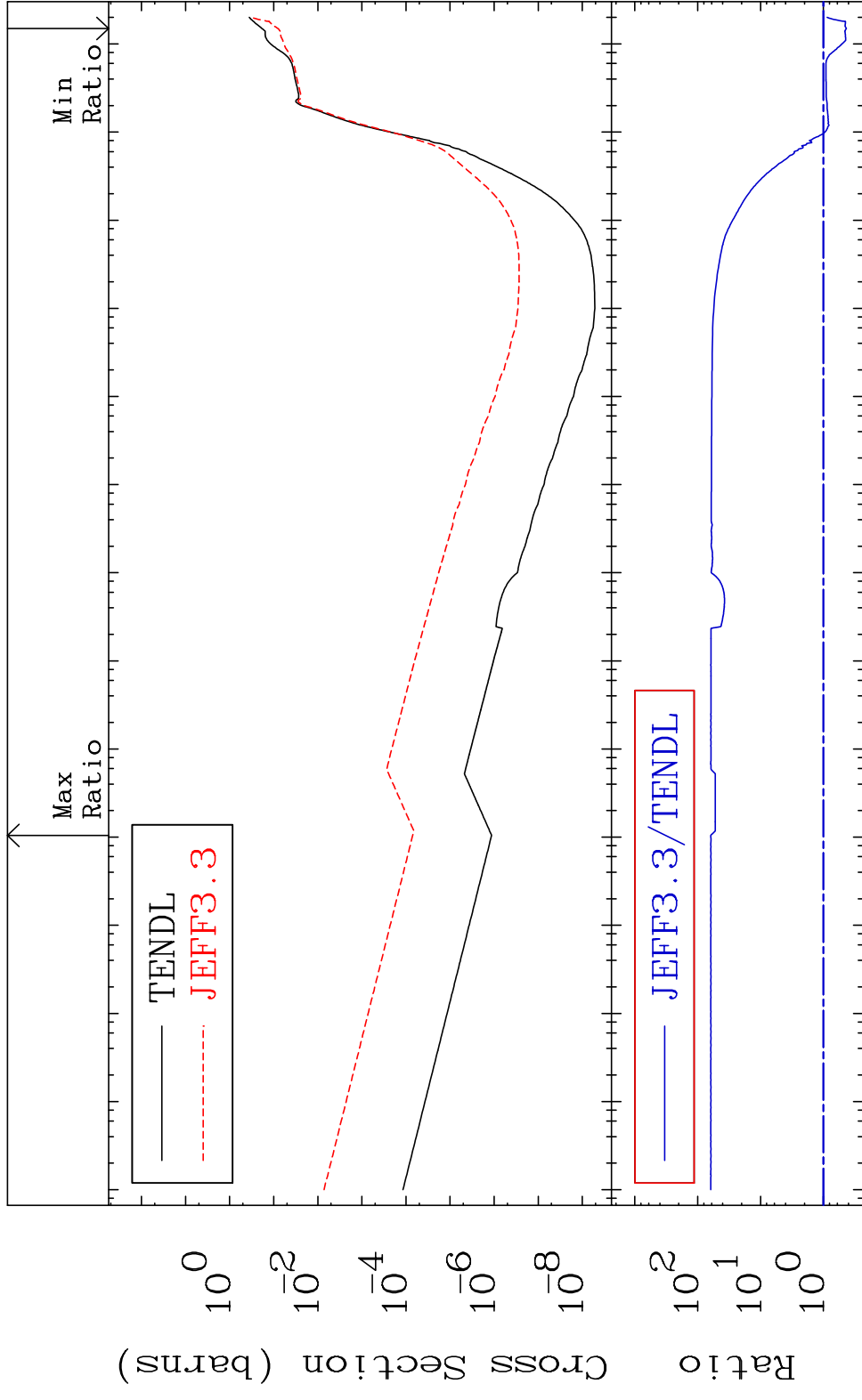


MAT 7322

He-4 Production

73-Ta-179

Cross Section -56.77 To 6107. %



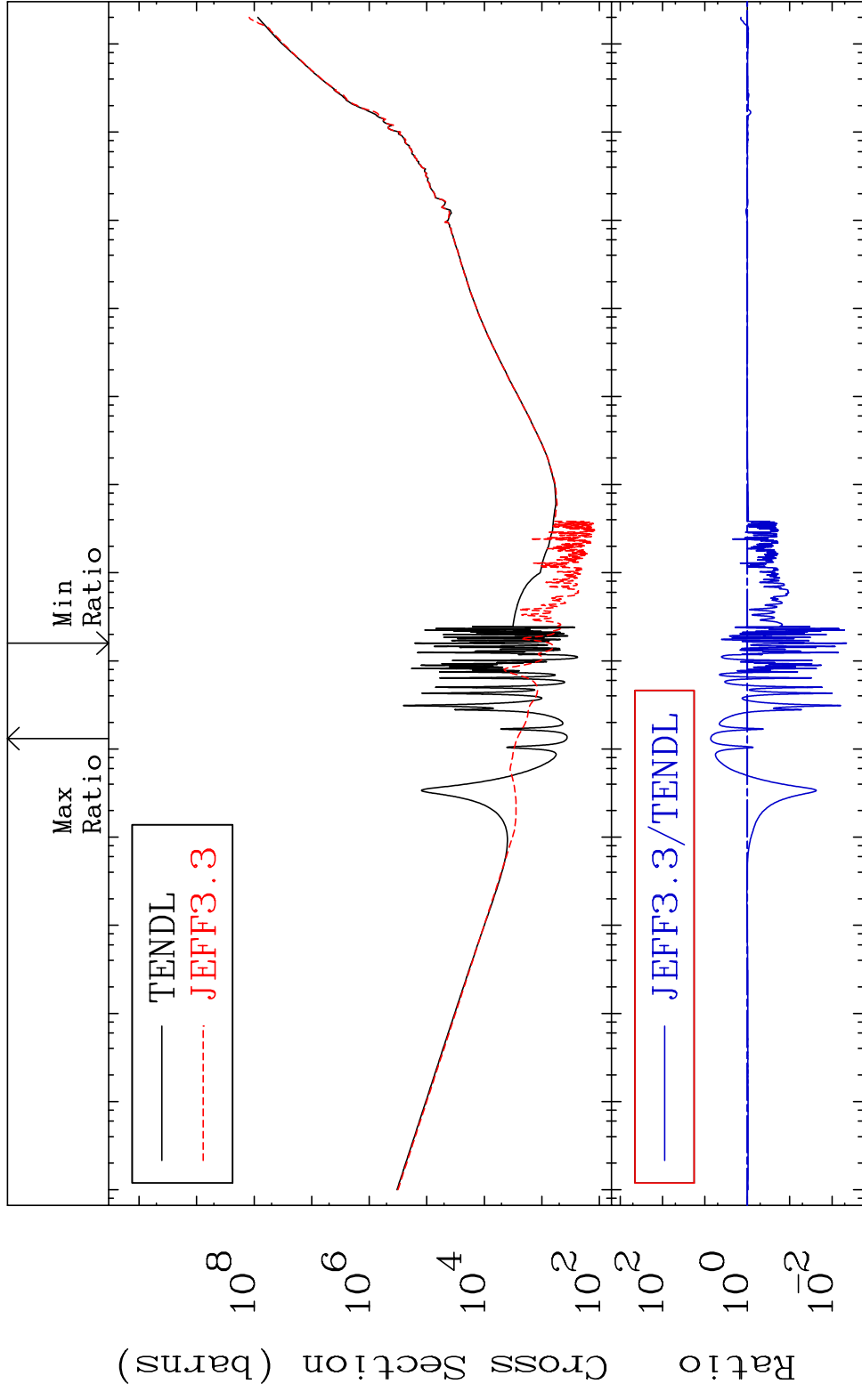
67

Incident Energy (eV)

73-Ta-179

MAT 7322

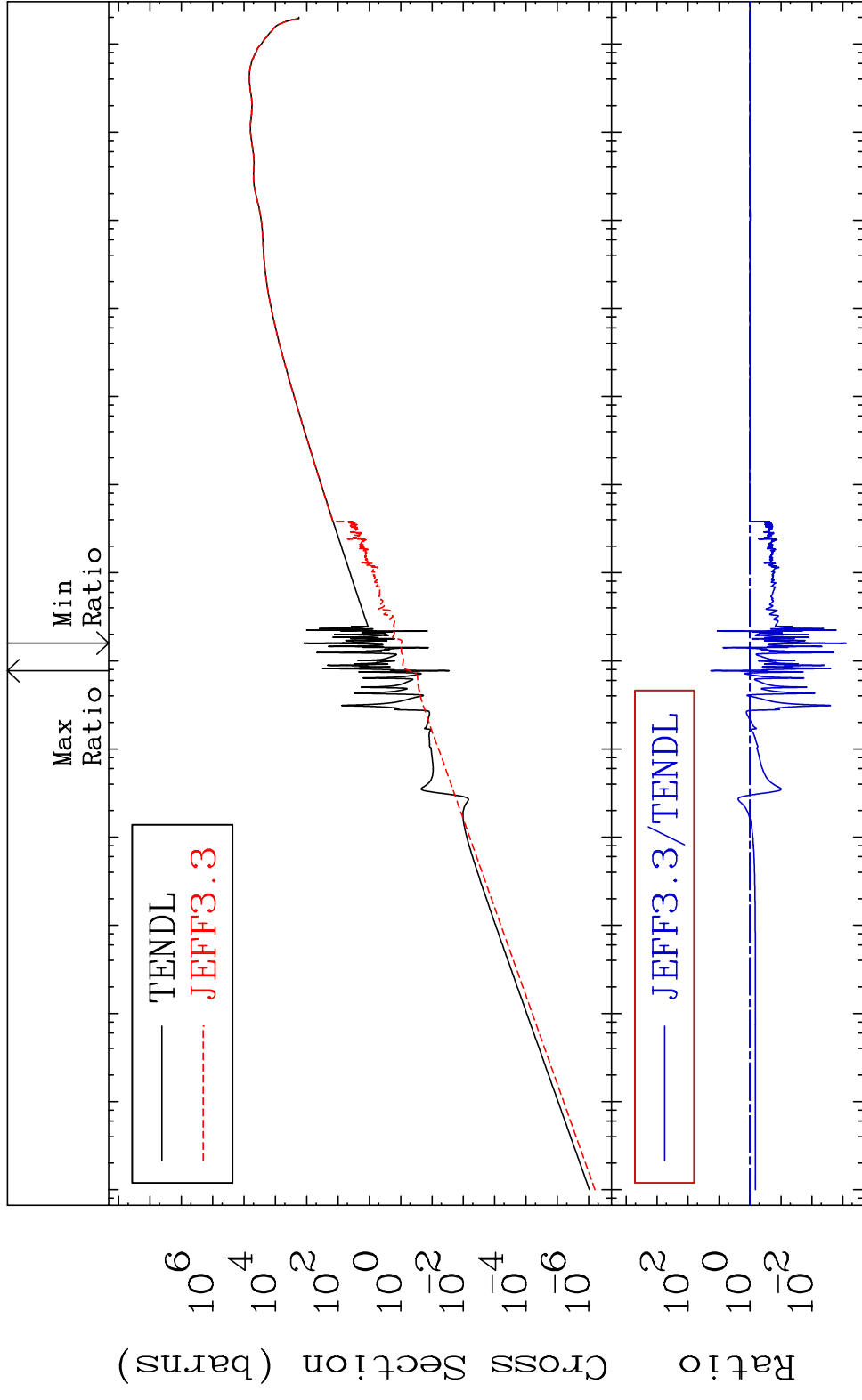
Kerma total (eV-barns) 73-Ta-179  
Cross Section -99.54 To 629.9 %



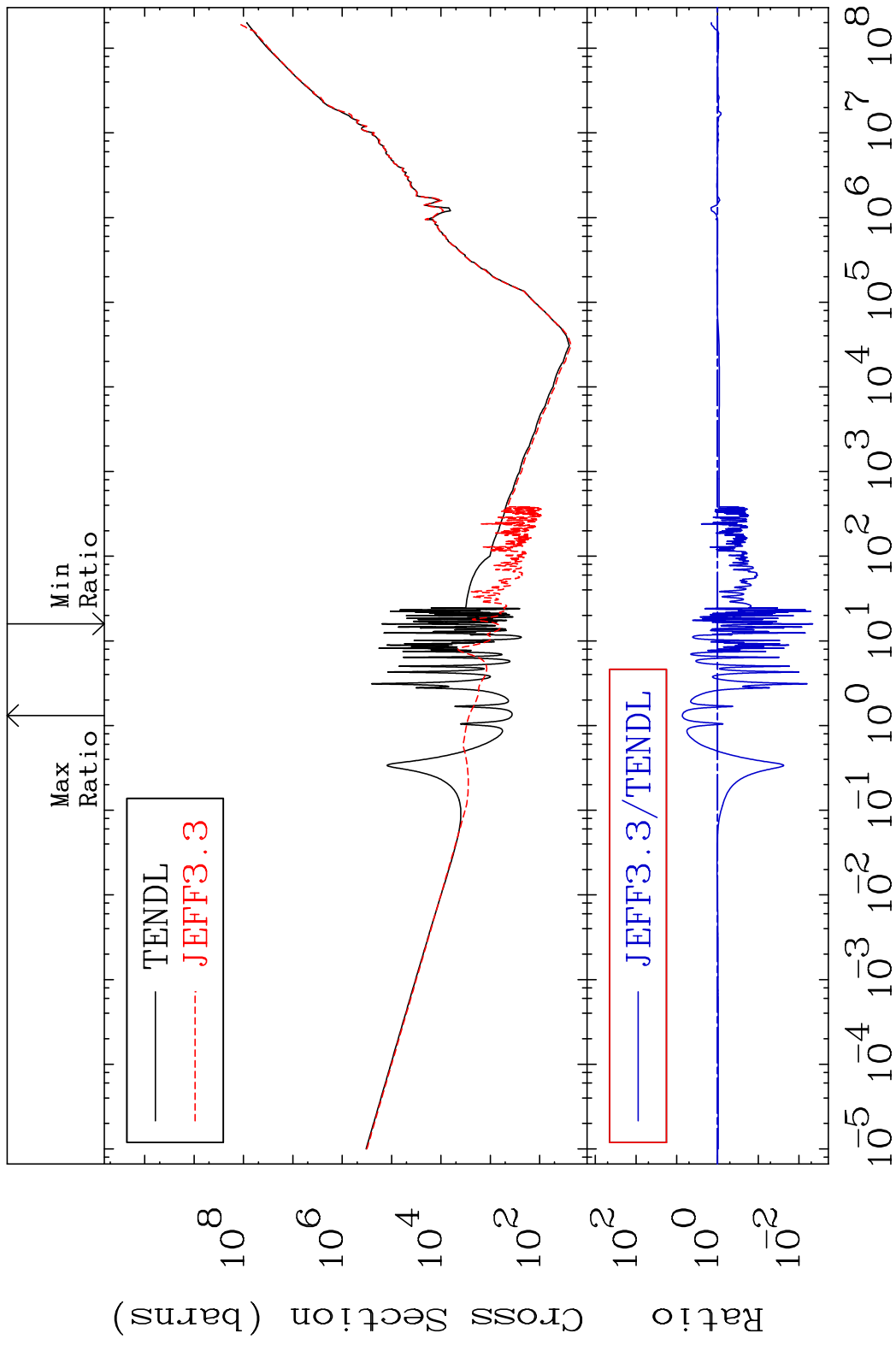
MAT 7322

Kerma elastic  
Cross Section -99.92 To 1755. %

73-Ta-179

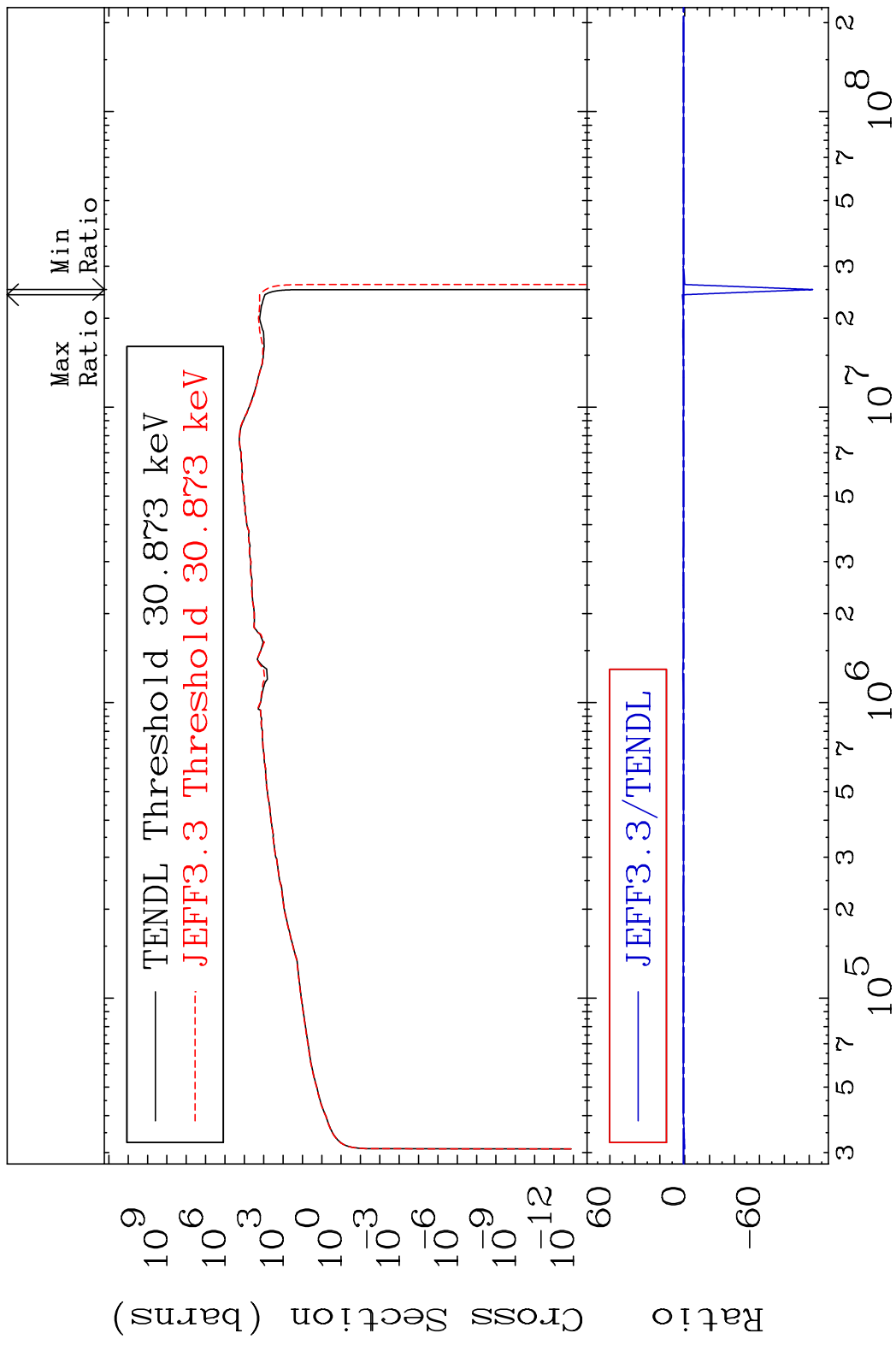


MAT 7322 Kerma non-elastic (all but mt2) 73-Ta-179  
 Cross Section -99.54 To 630.1 %



70 Incident Energy (eV) 73-Ta-179

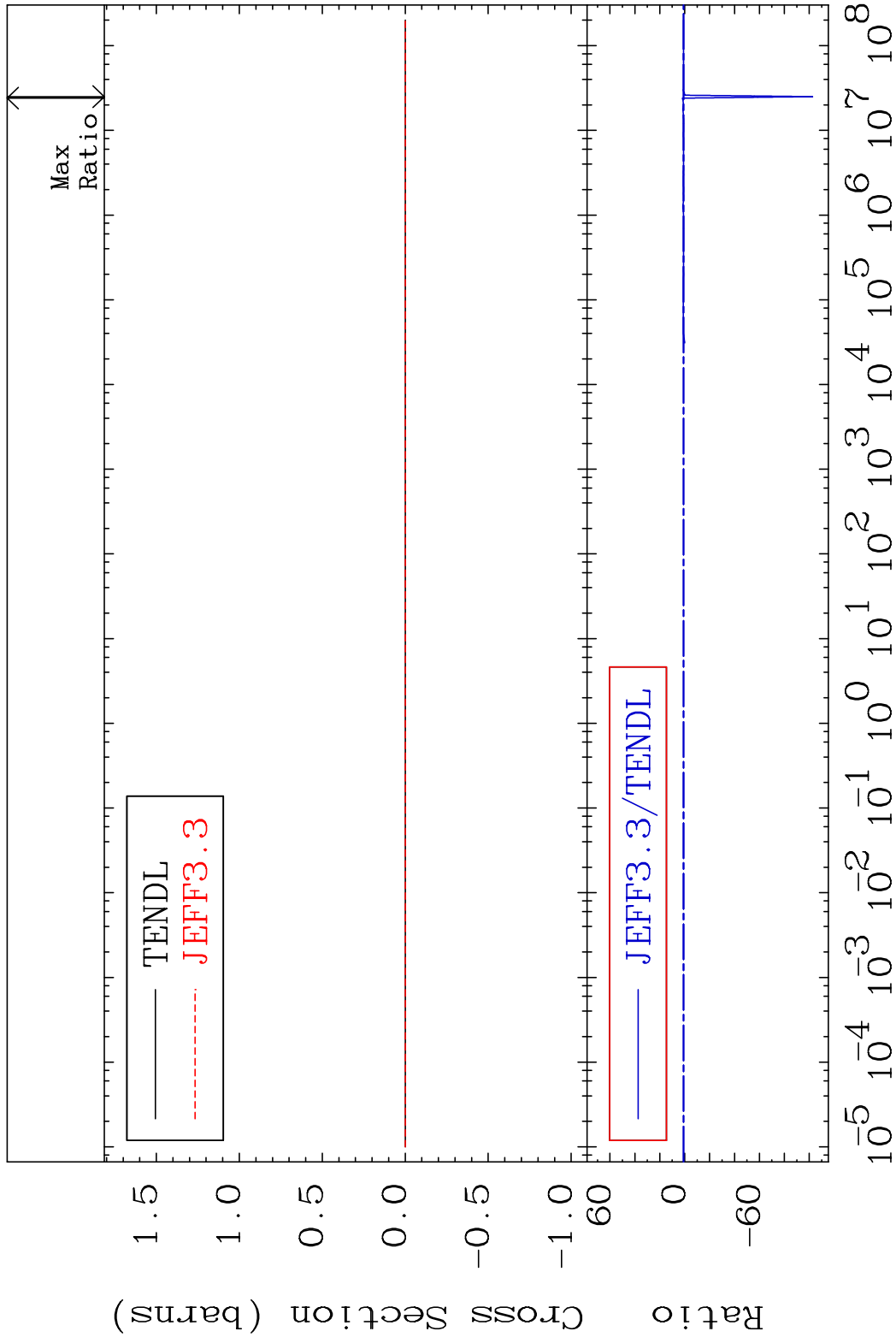
MAT 7322 Kerma inelastic (mt51-91) 73-Ta-179  
 Cross Section -9999. To 86.96 %



71 Incident Energy (eV) 73-Ta-179

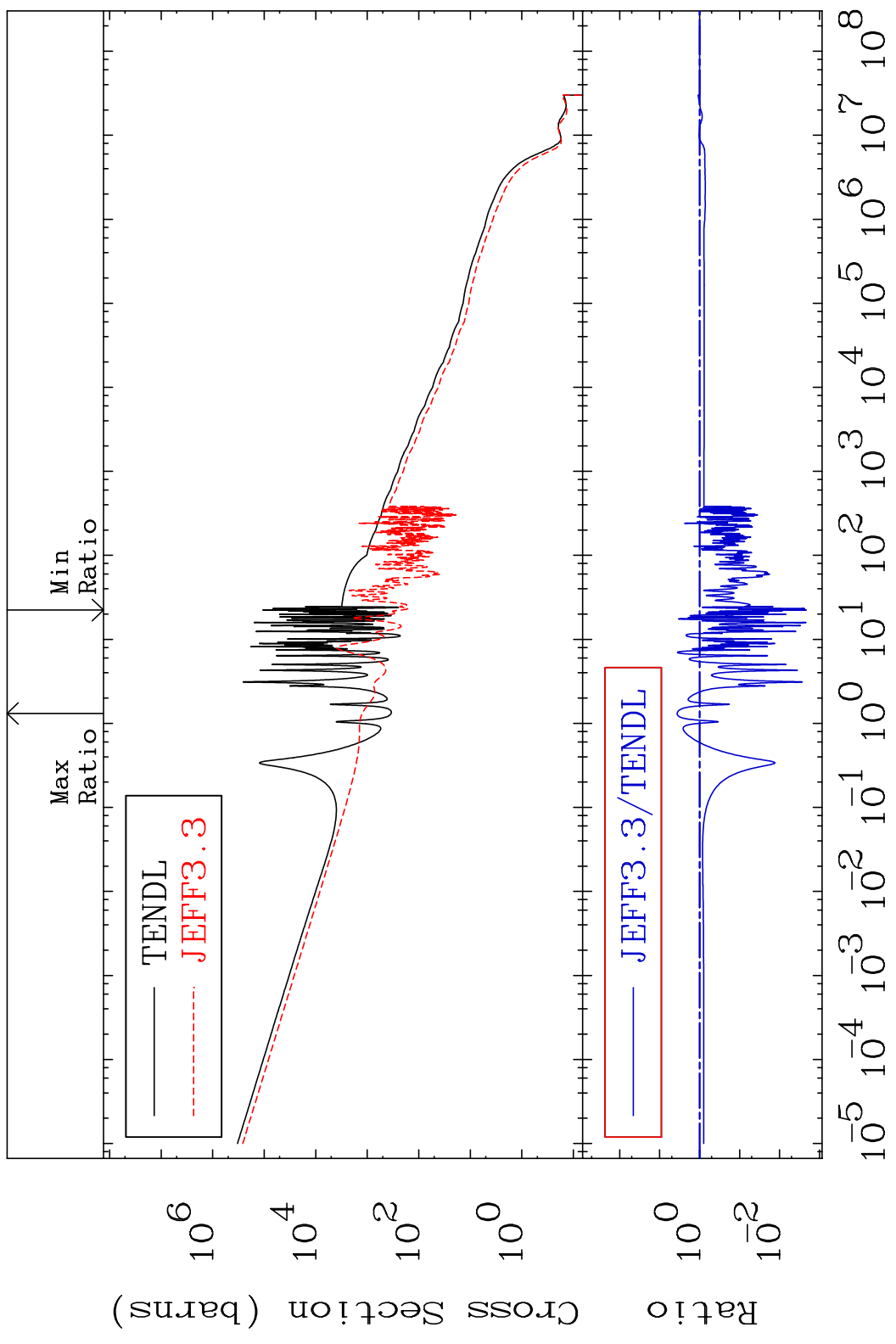


MAT 7322 Kerma fission (mt18 or mt19-20-21-38) 73-Ta-179  
 Cross Section -9999. To 86.96 %



MAT 7322

Kerma capture (mt102) 73-Ta-179  
Cross Section -99.79 To 264.7 %



73

Incident Energy (eV)

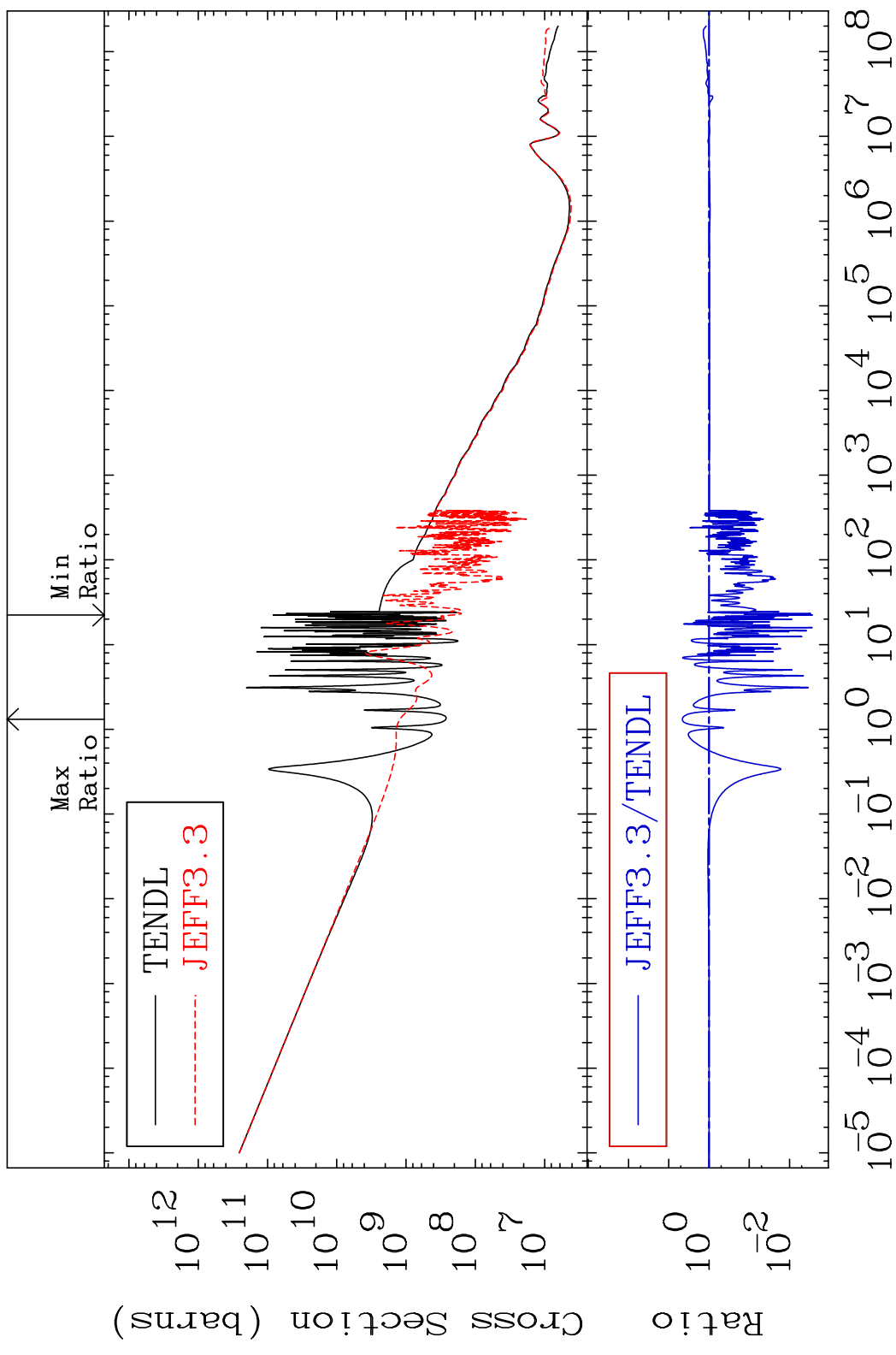
73-Ta-179

MAT 7322

Total photon (eV-barns)

73-Ta-179

Cross Section -99.73 To 359.8 %

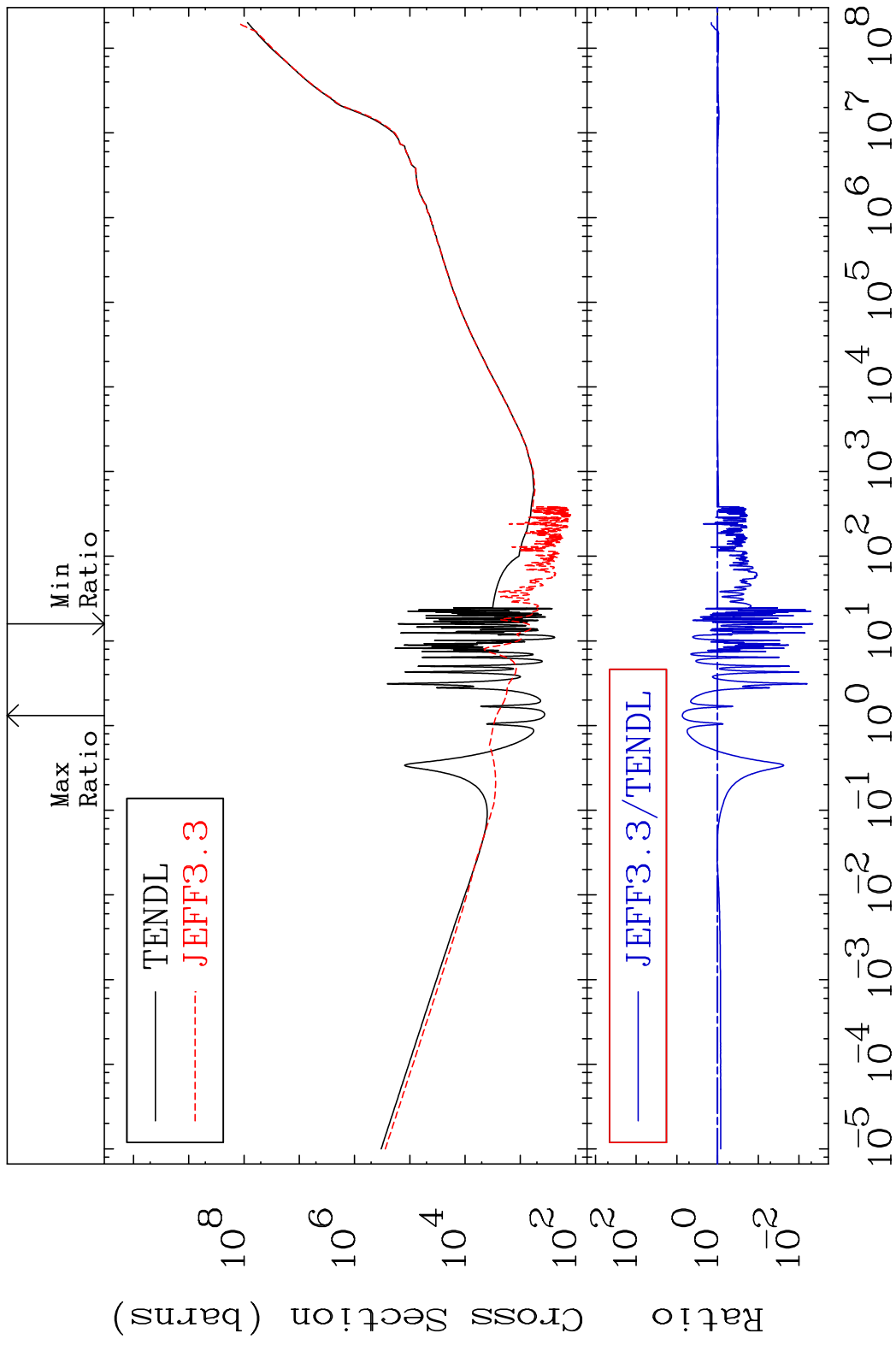


74

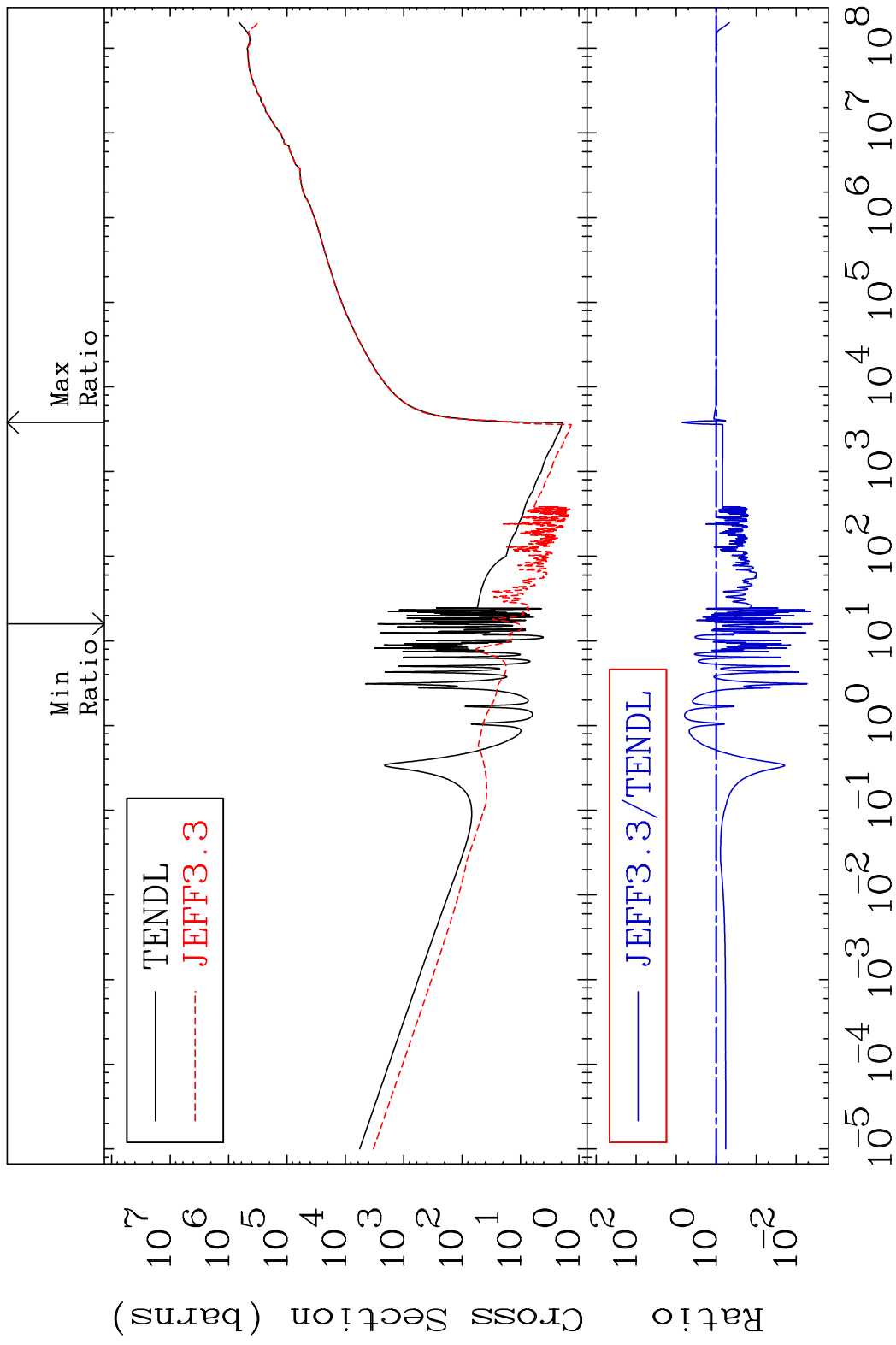
Incident Energy (eV)

73-Ta-179

MAT 7322 Total kinematic kerma (high limit) 73-Ta-179  
 Cross Section -99.54 To 632.9 %



MAT 7322      Dpa total (eV-barns)      73-Ta-179  
 Cross Section      -99.61 To 601.5 %



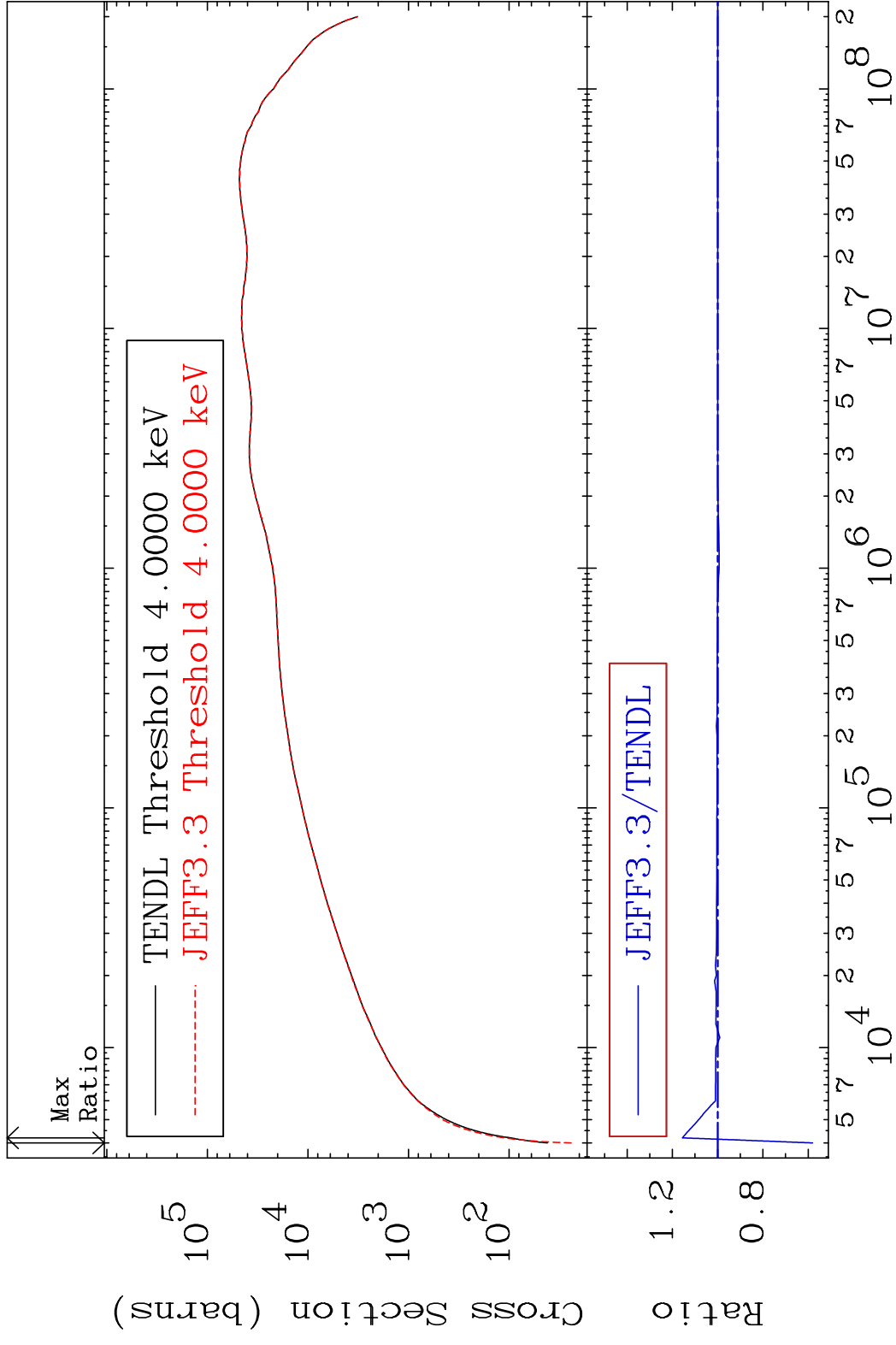
76      Incident Energy (eV)      73-Ta-179

MAT 7322

Dpa elastic (mt2)

73-Ta-179

Cross Section -41.94 To 15.61 %

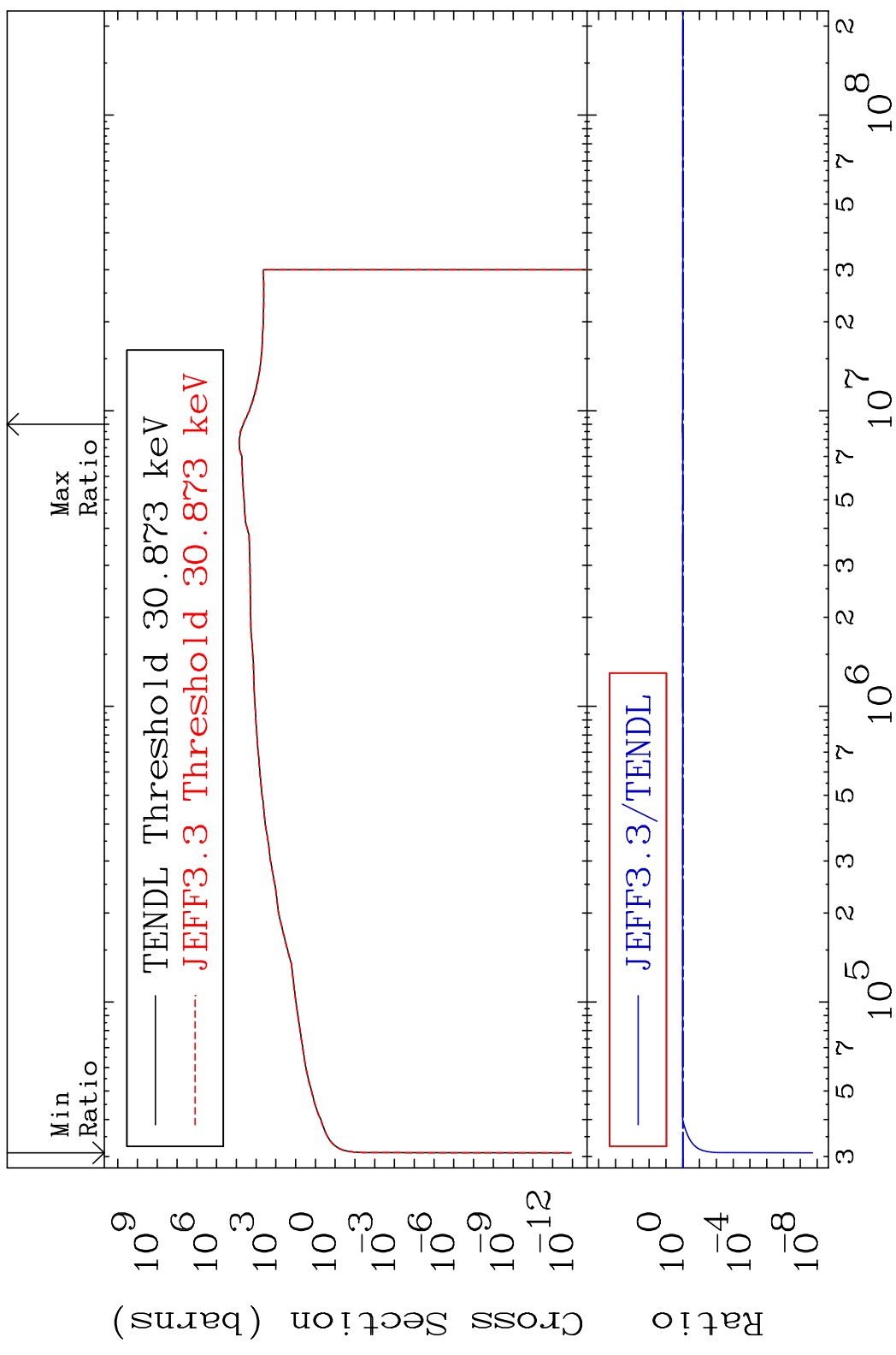


MAT 7322

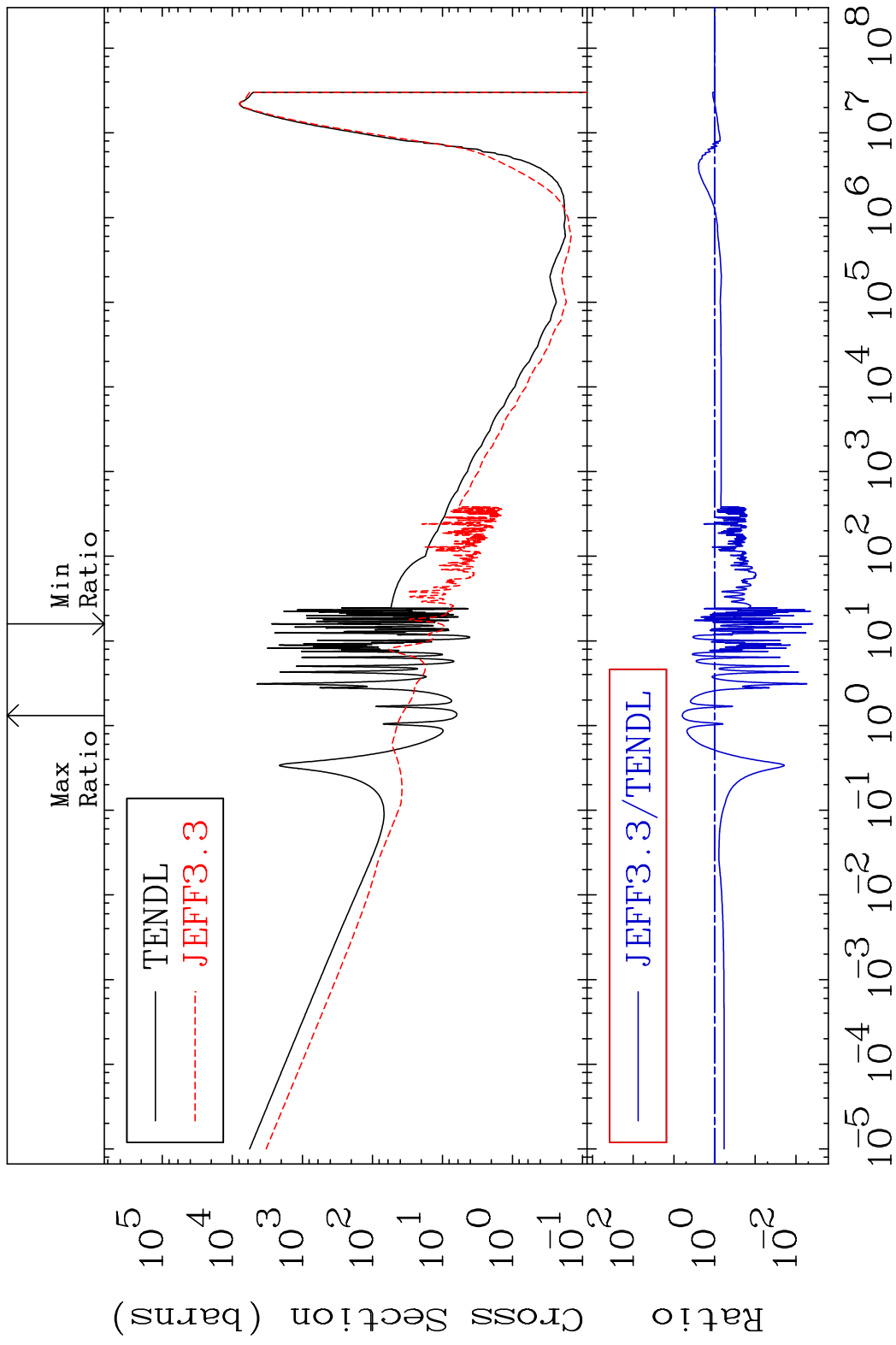
Dpa inelastic (mt51-91)

73-Ta-179

Cross Section -100.0 To 5.646 %



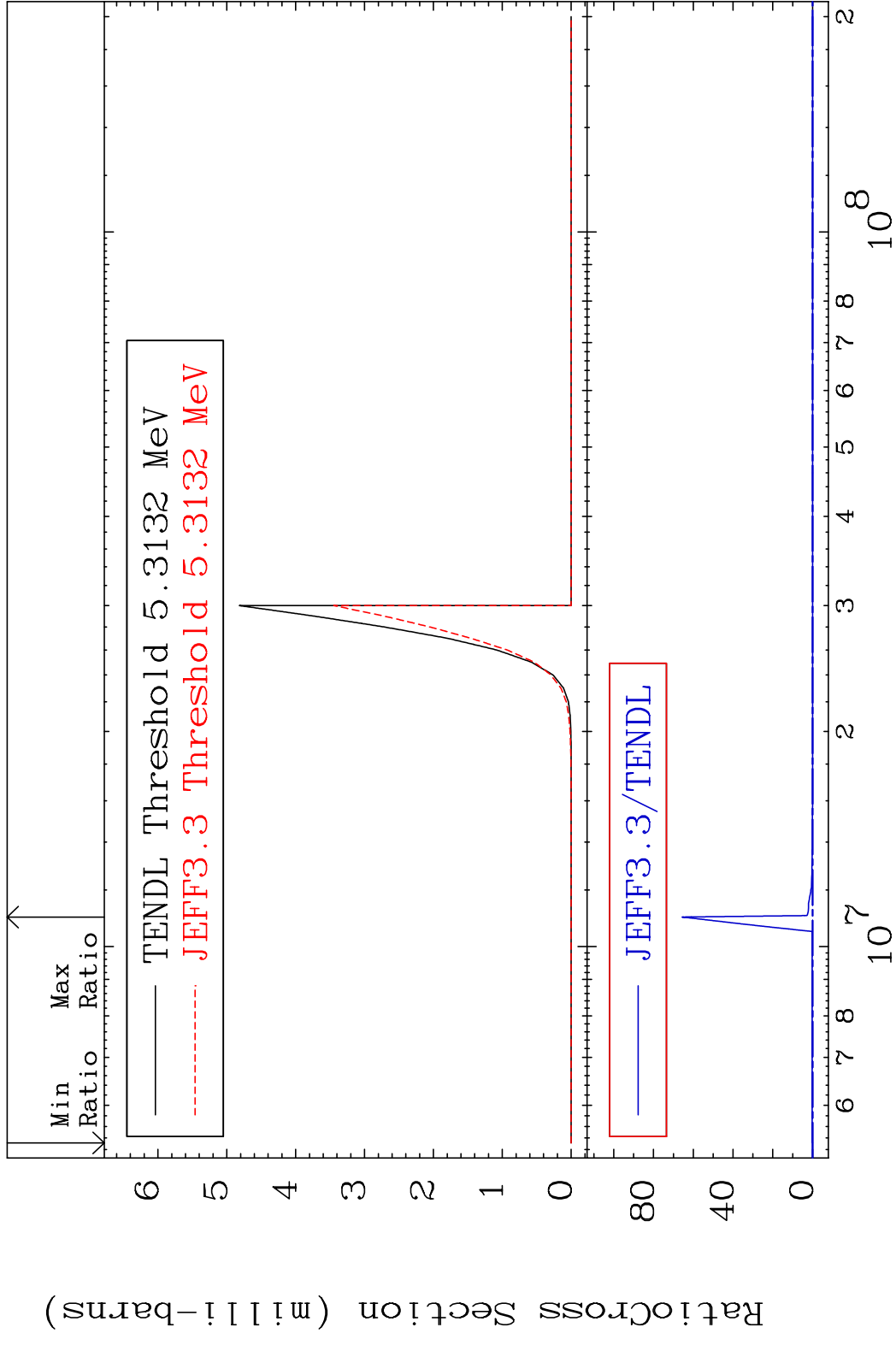
MAT 7322 Dpa disappearance (mt102 -120) 73-Ta-179  
 Cross Section -99.61 To 518.2 %



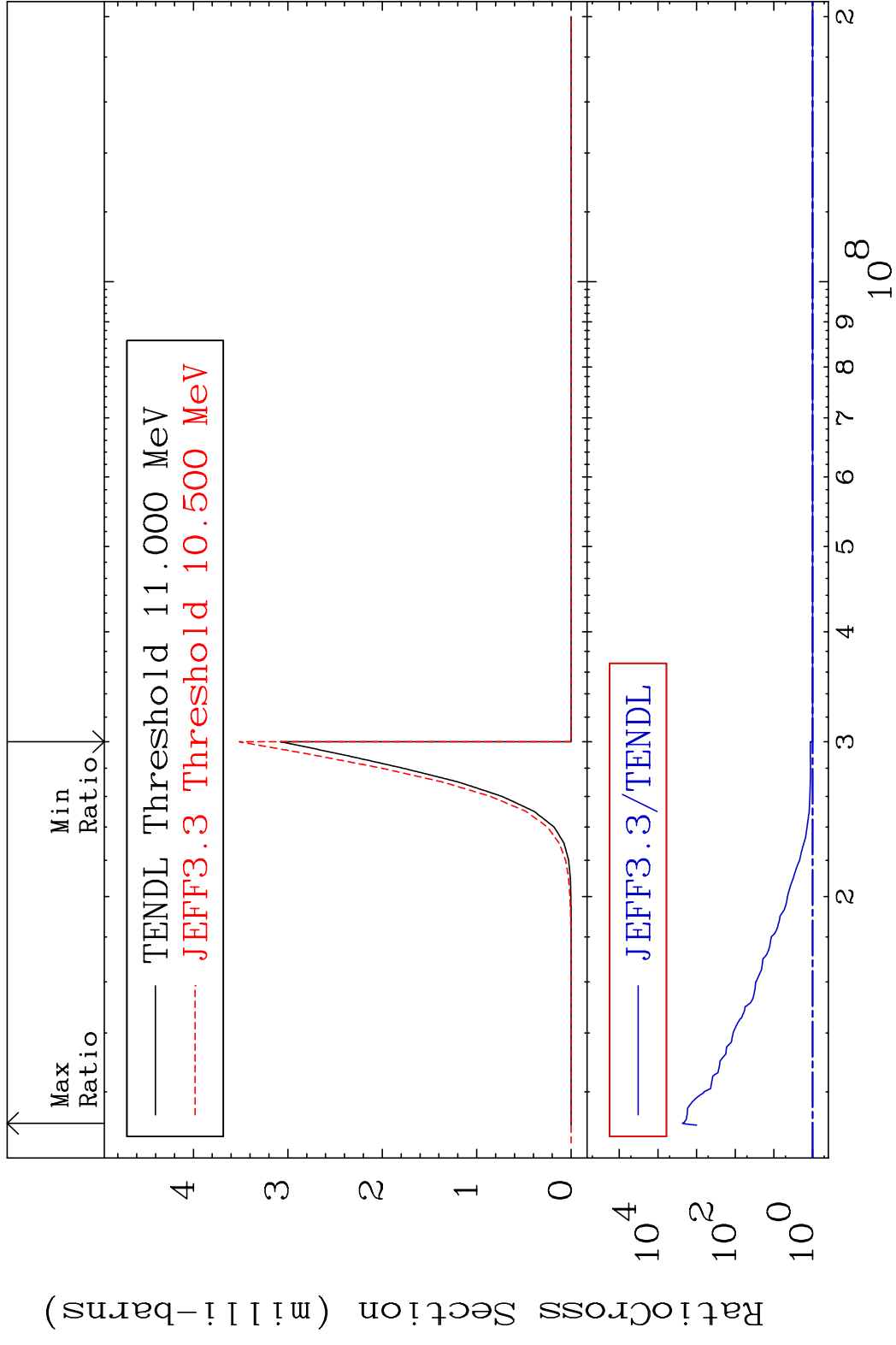
79 Incident Energy (eV) 73-Ta-179

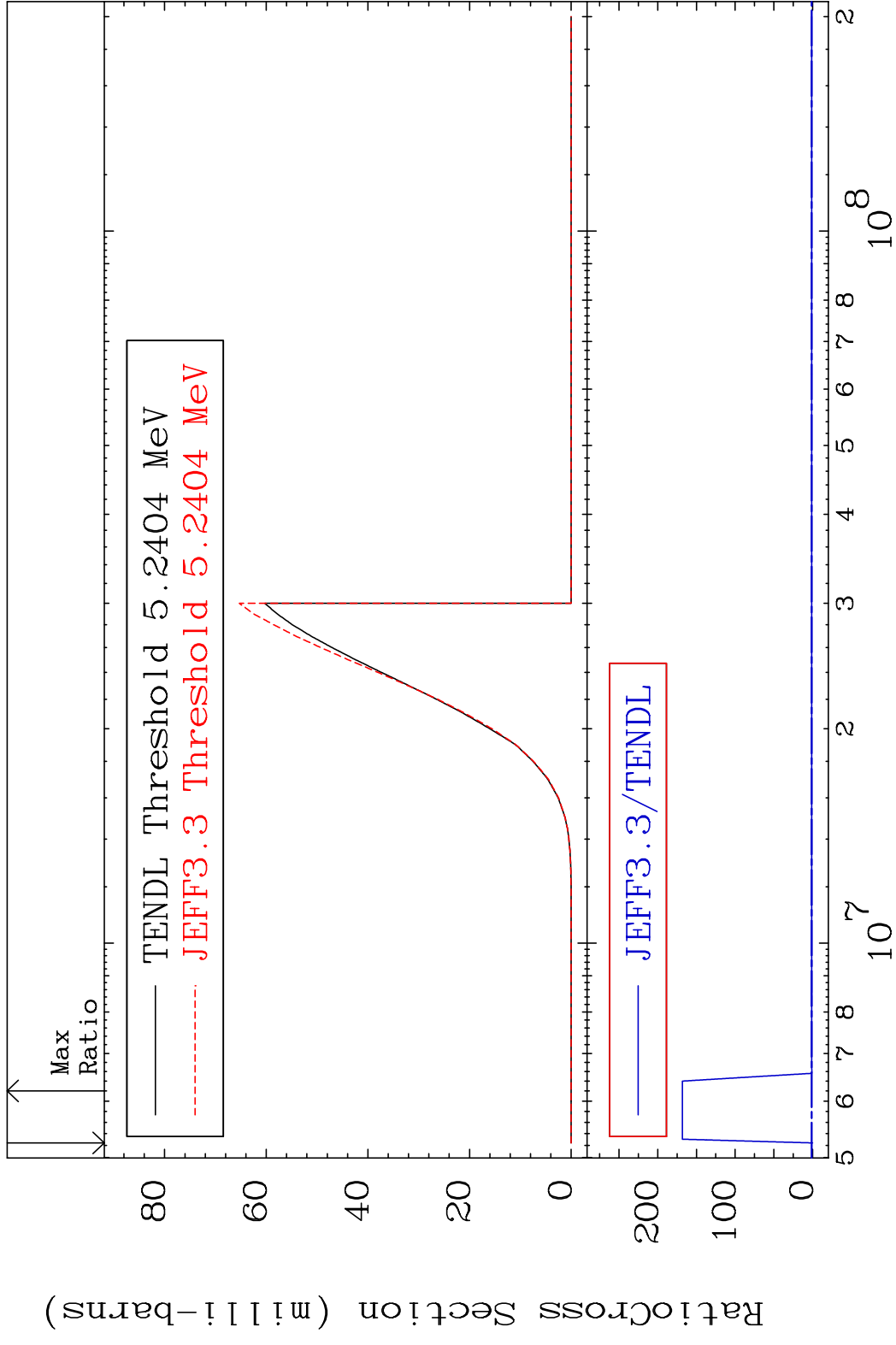


MAT 7322 (n,2n)  $\alpha$ :71-Lu-174g 73-Ta-179  
 Radionuclide Production Cross Section to 9999. %

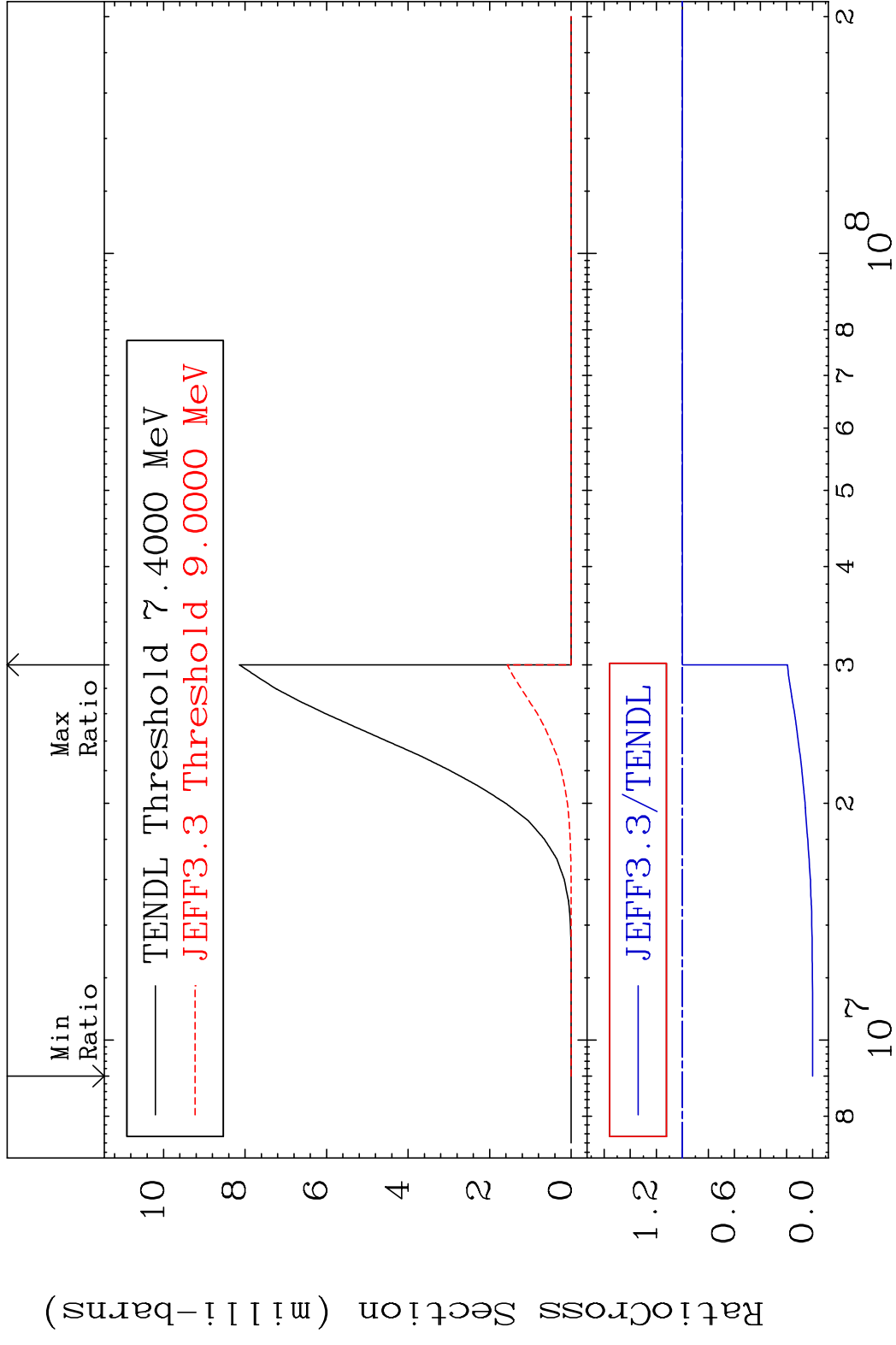


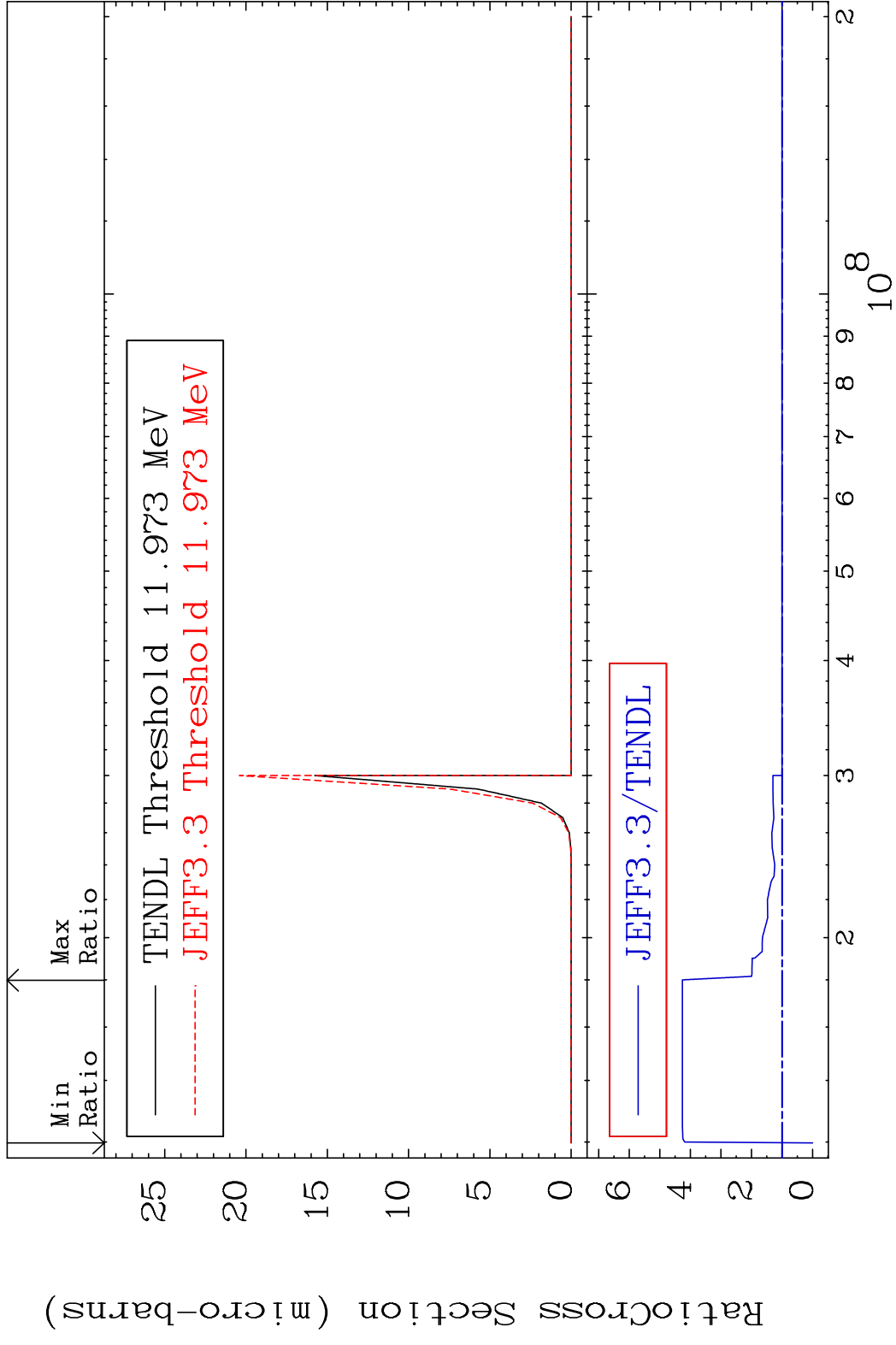
80 Incident Energy (eV) 73-Ta-179

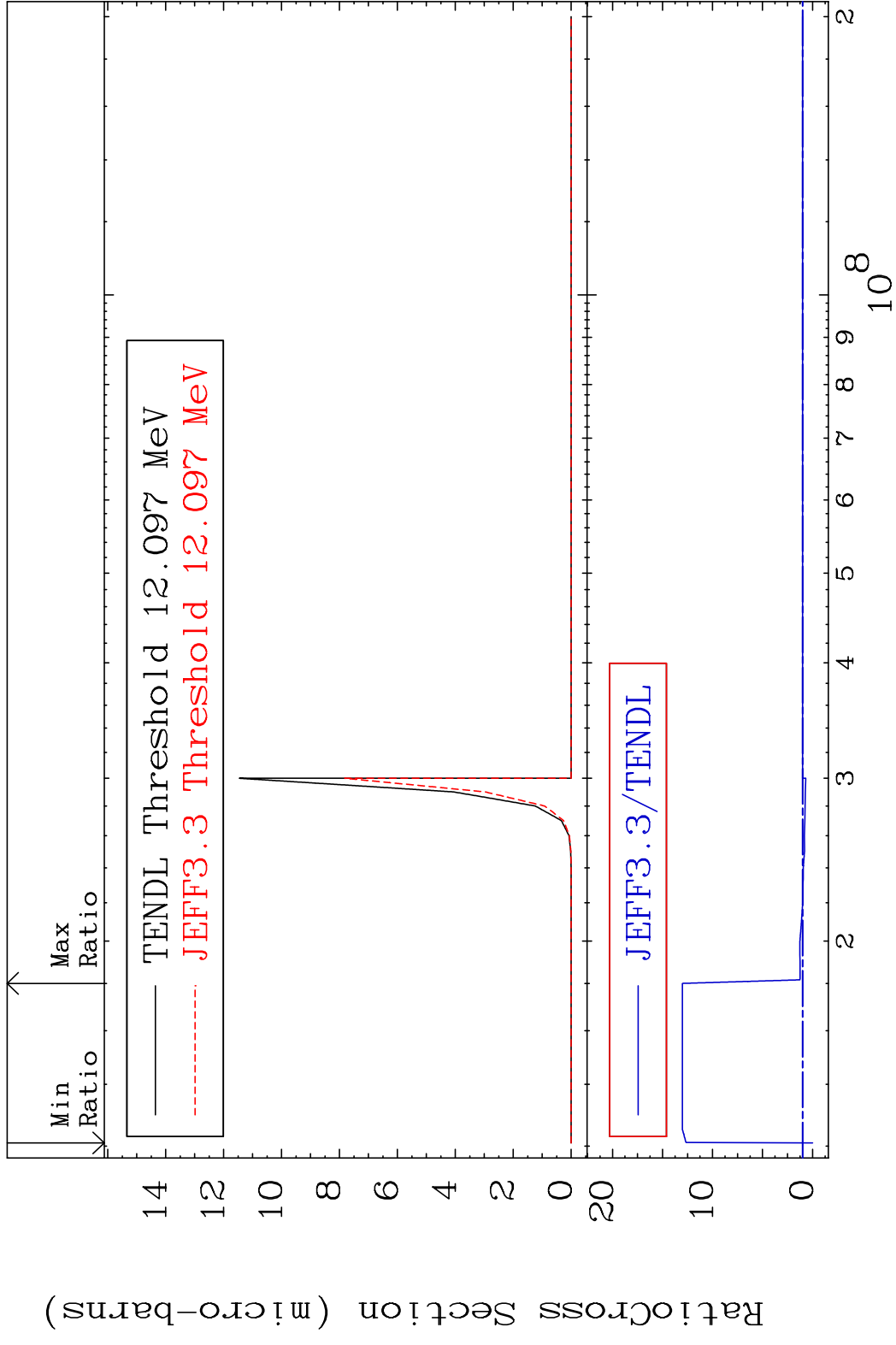




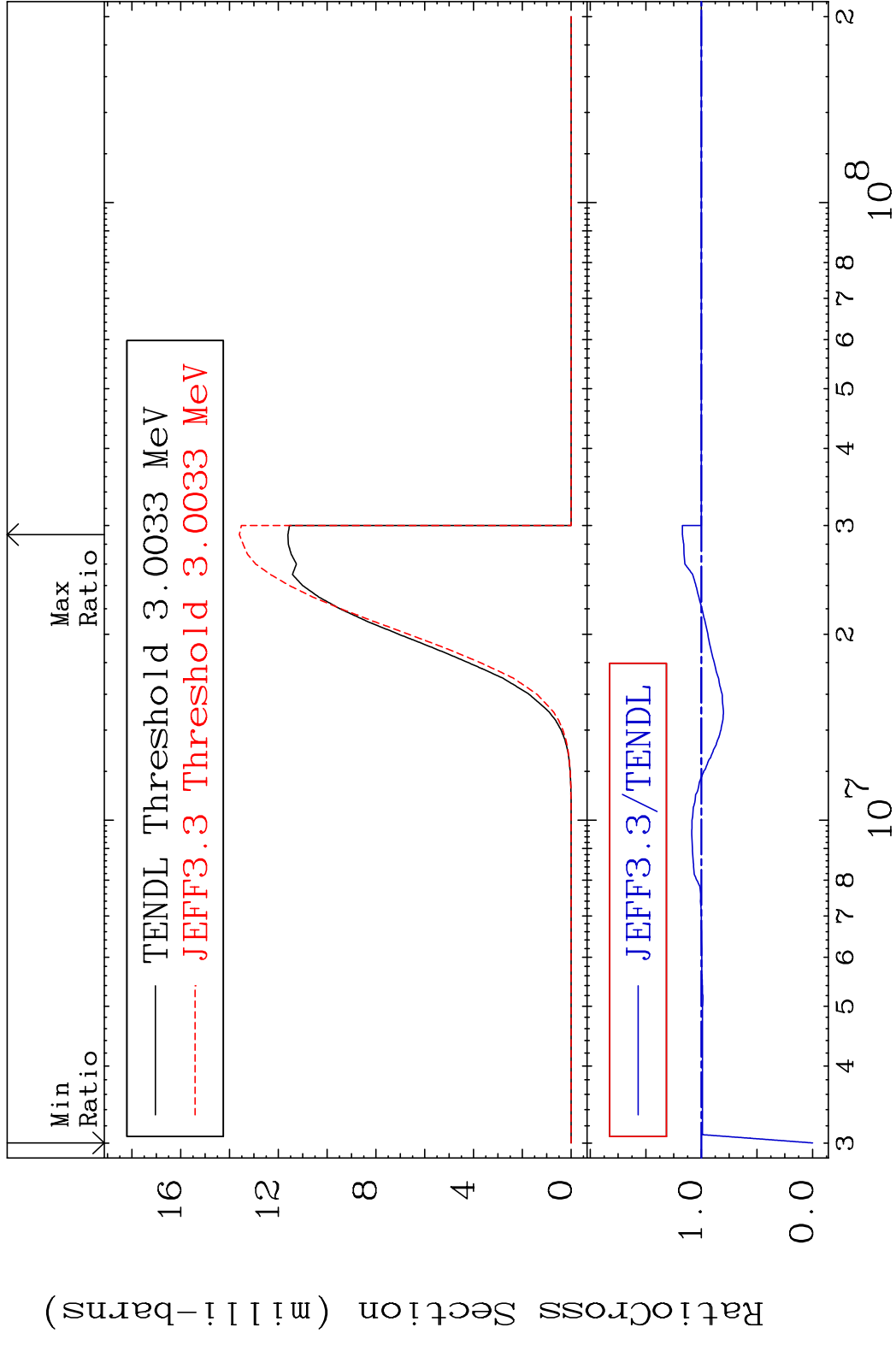
MAT 7322 (n, n') p:72-Hf-178m5 73-Ta-179  
 Radionuclide Production Cross Section 180.01 dth 0.000 %

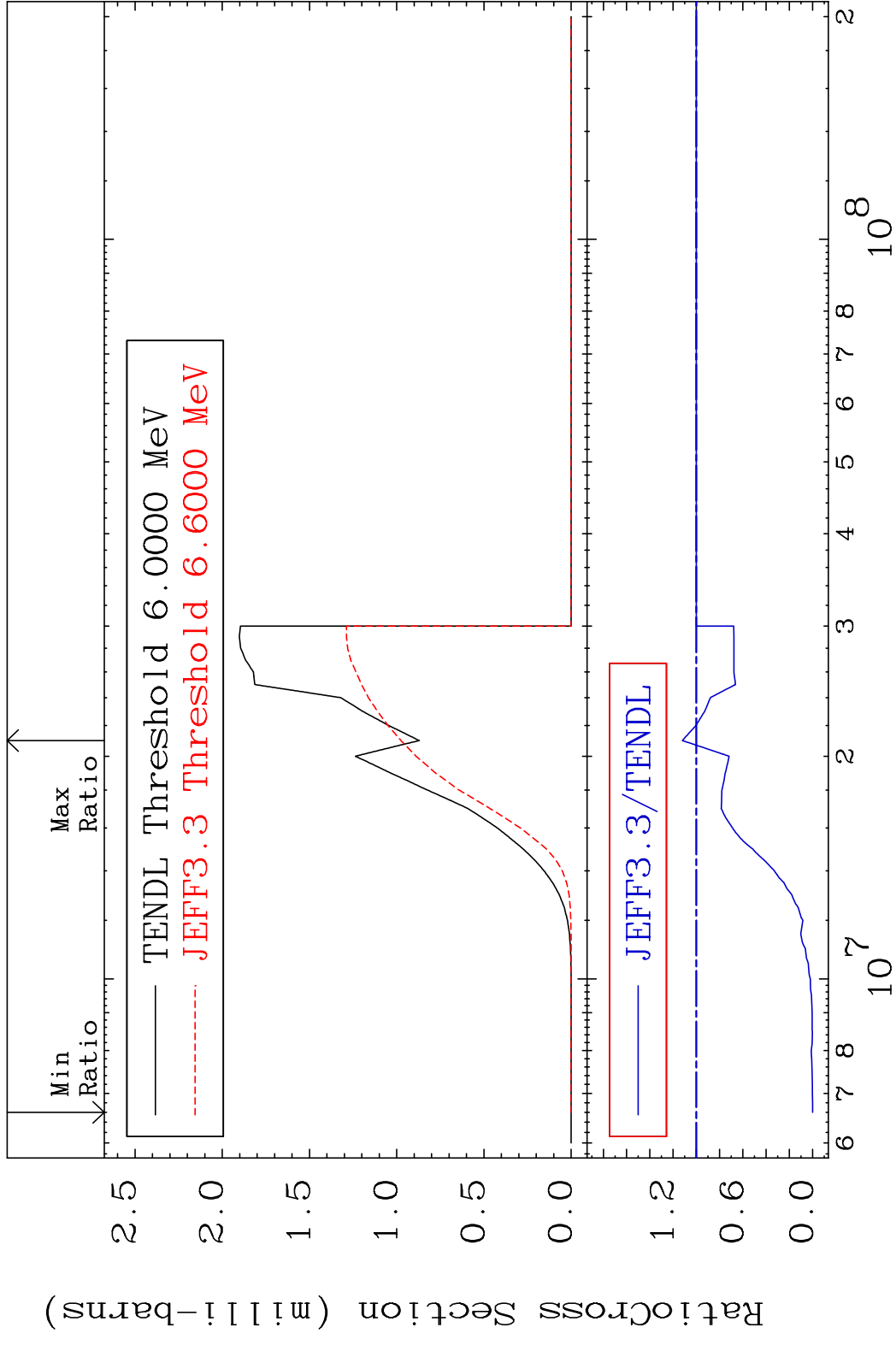






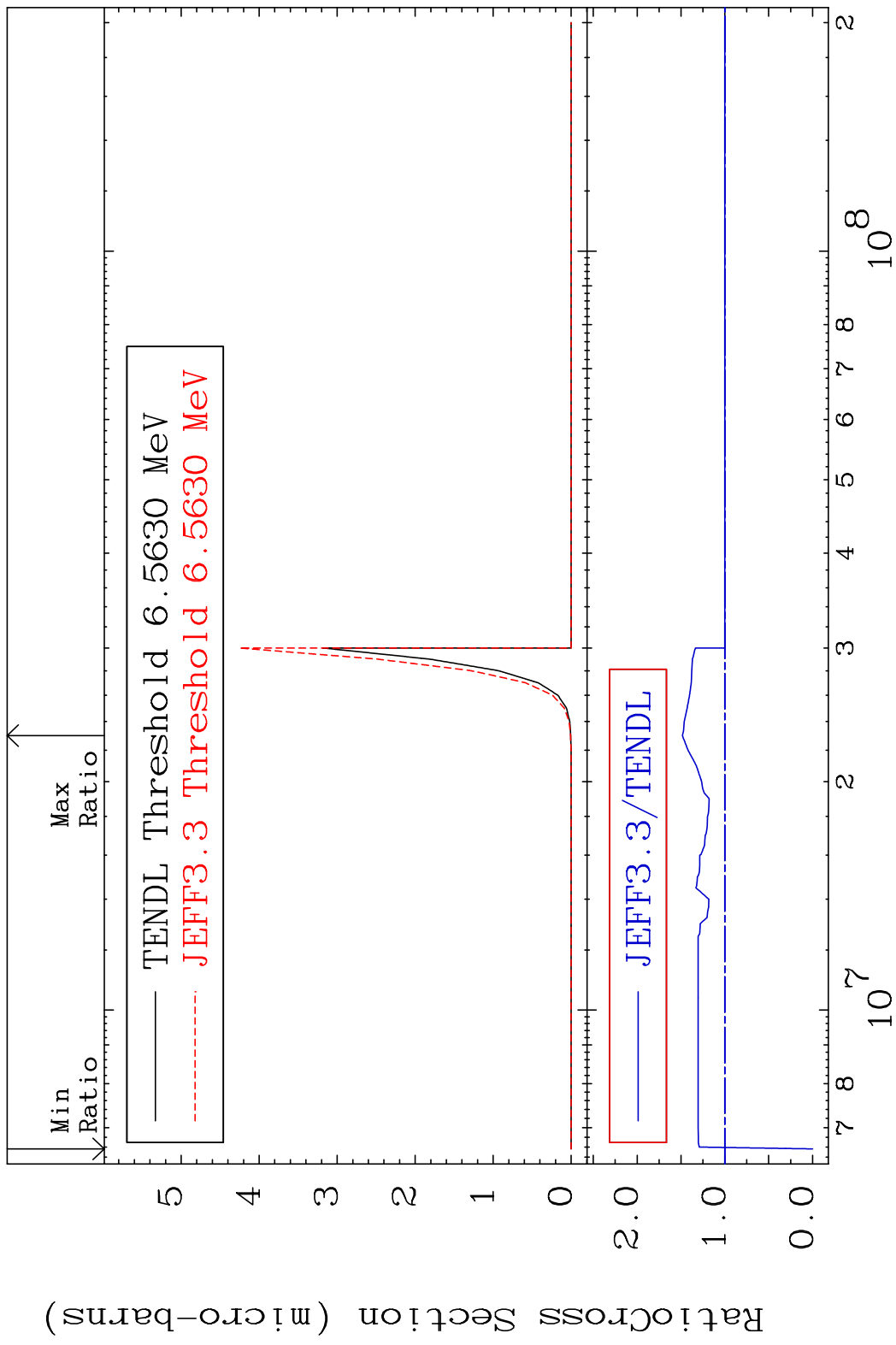
MAT 7322 (n,d):72-Hf-178g 73-Ta-179  
 Radionuclide Production Cross Section 18.00 mb 17.16 %

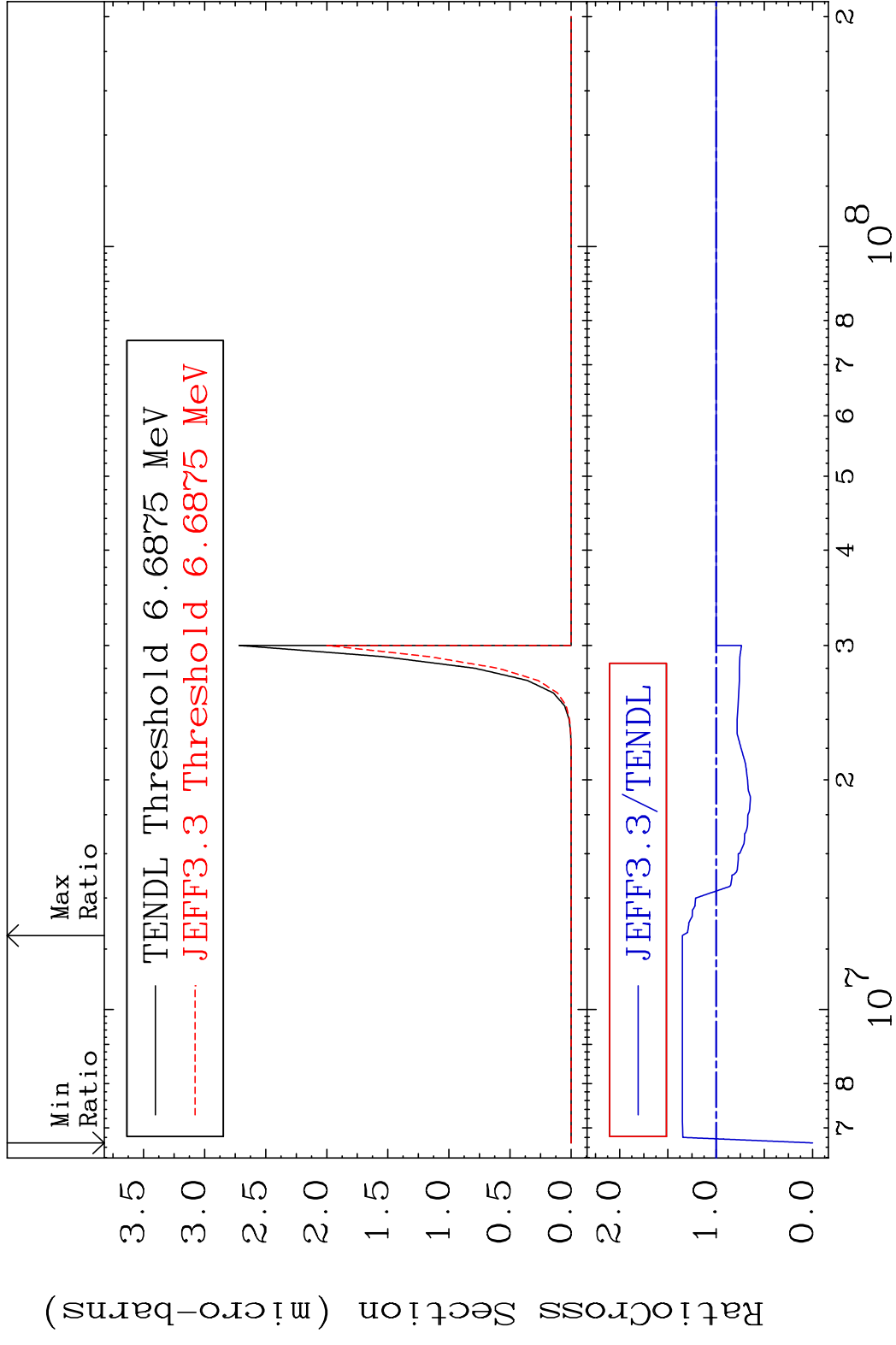




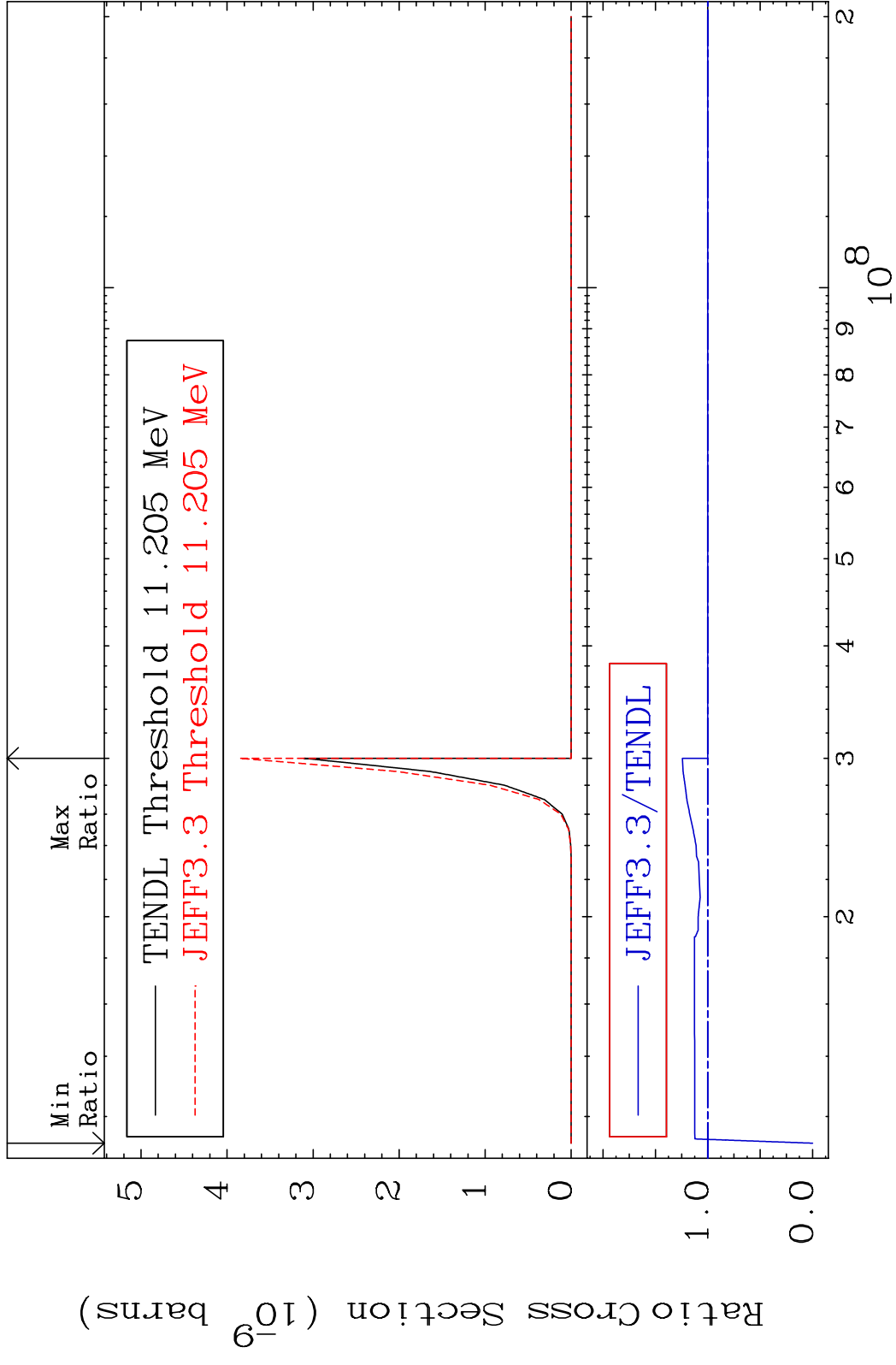


MAT 7322 (n,2p):71-Lu-178g 73-Ta-179  
 Radionuclide Production Cross Section 48.45 %





MAT 7322 (n, p) t:71-Lu-176g 73-Ta-179  
 Radionuclide Production Cross Section Ratio 24.27 %



MAT 7322 (n, p) t:71-Lu-176m1 73-Ta-179  
 Radionuclide Production Cross Section Ratio 0.000 %

