

Program Complot  
(Version 2021-1)

by

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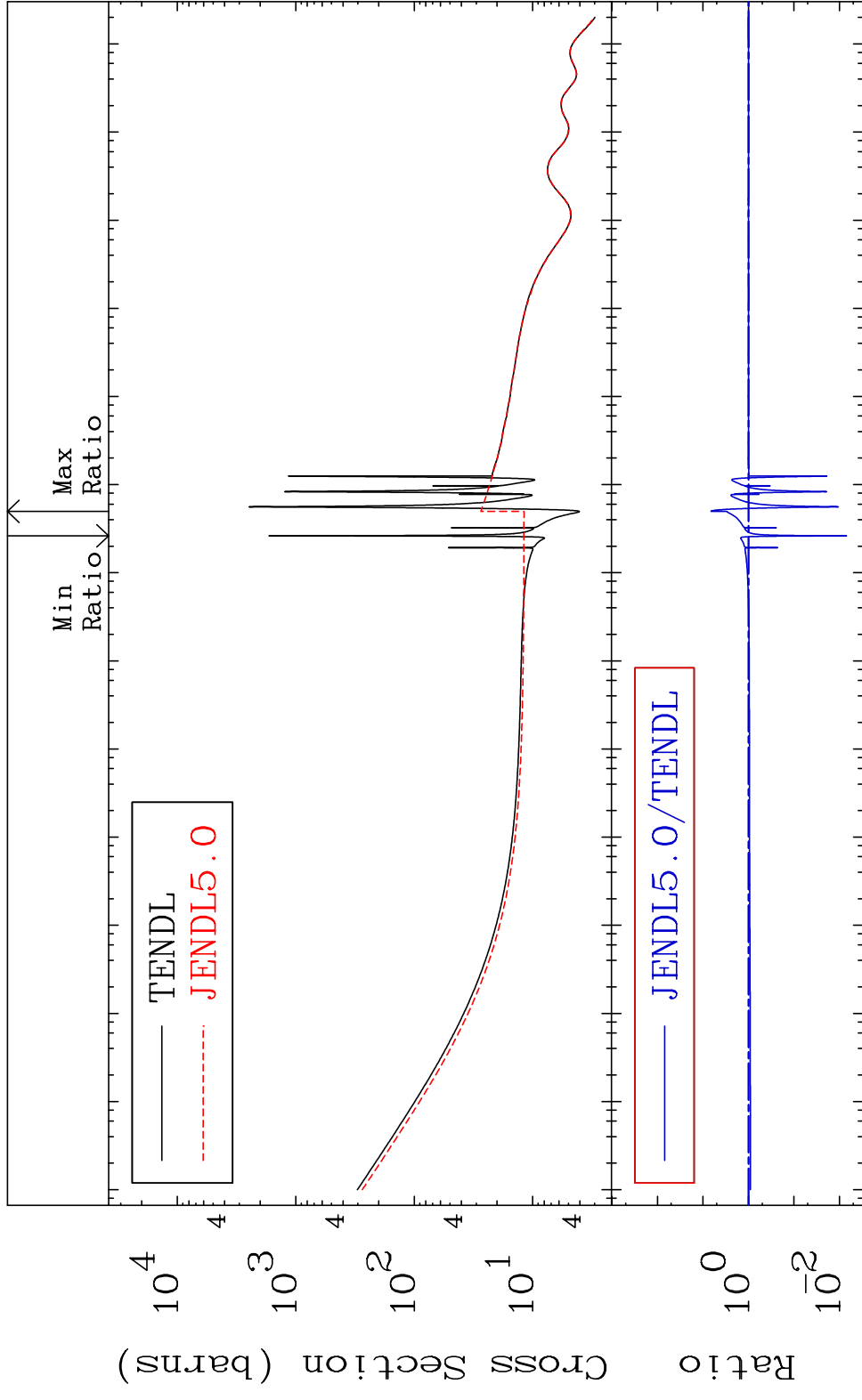
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 8228

Total Cross Section -99.29 To 576.6 %

82-Pb-205



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

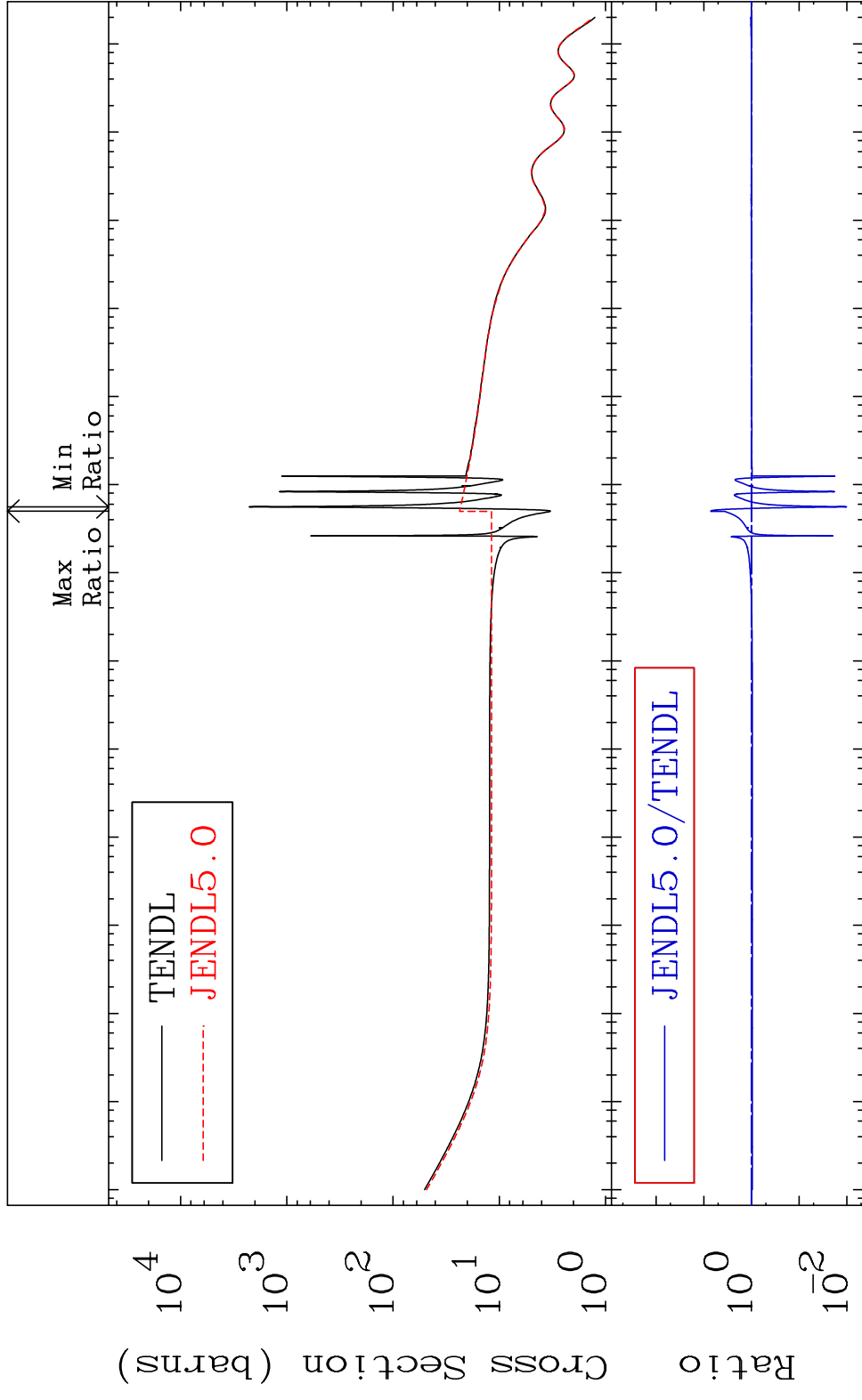
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

1 Incident Energy (eV) 82-Pb-205

MAT 8228

Elastic Cross Section -98.97 To 616.3 %

82-Pb-205

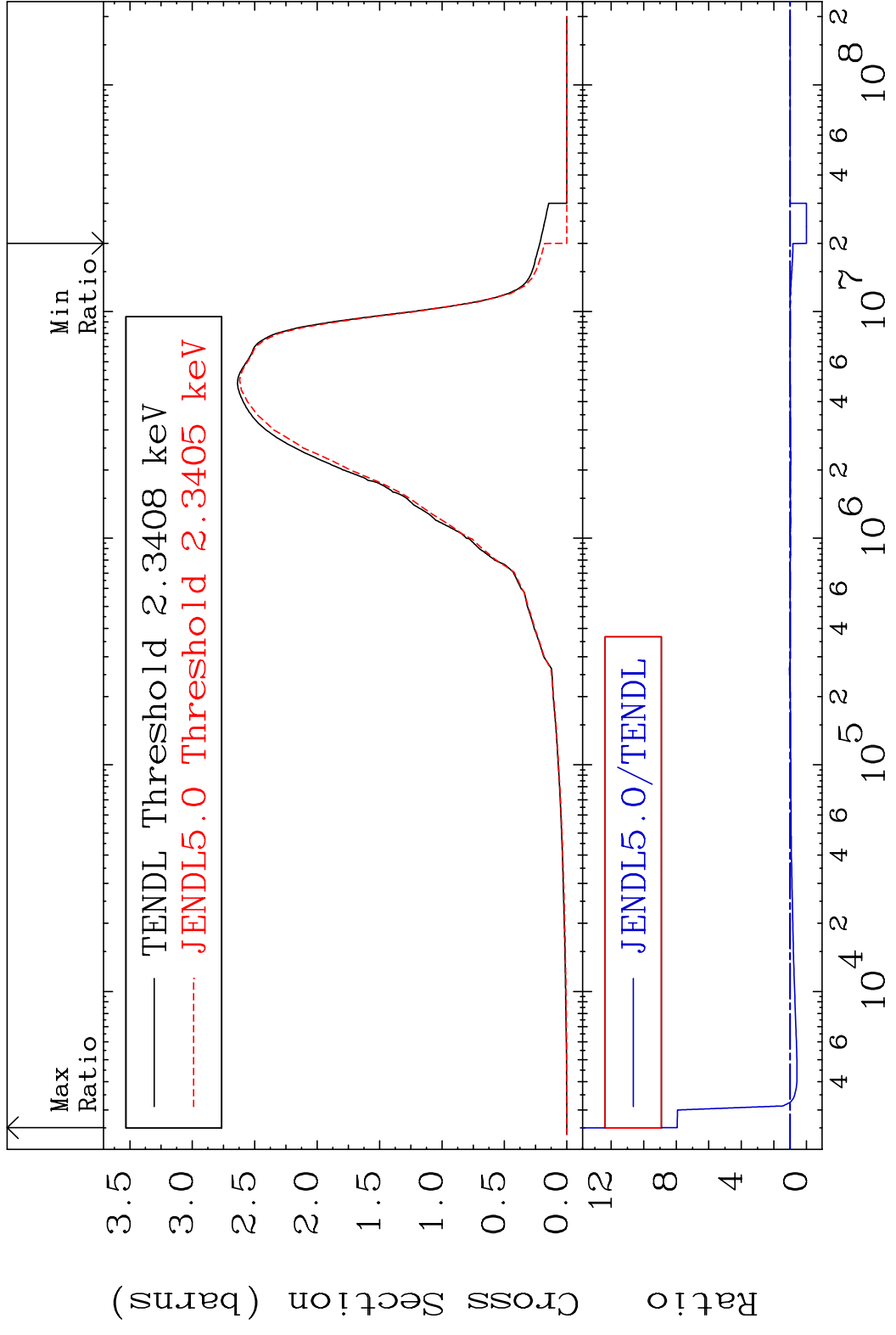


2

Incident Energy (eV)

82-Pb-205

MAT 8228 Inelastic 82-Pb-205  
 Cross Section -100.0 To 694.2 %

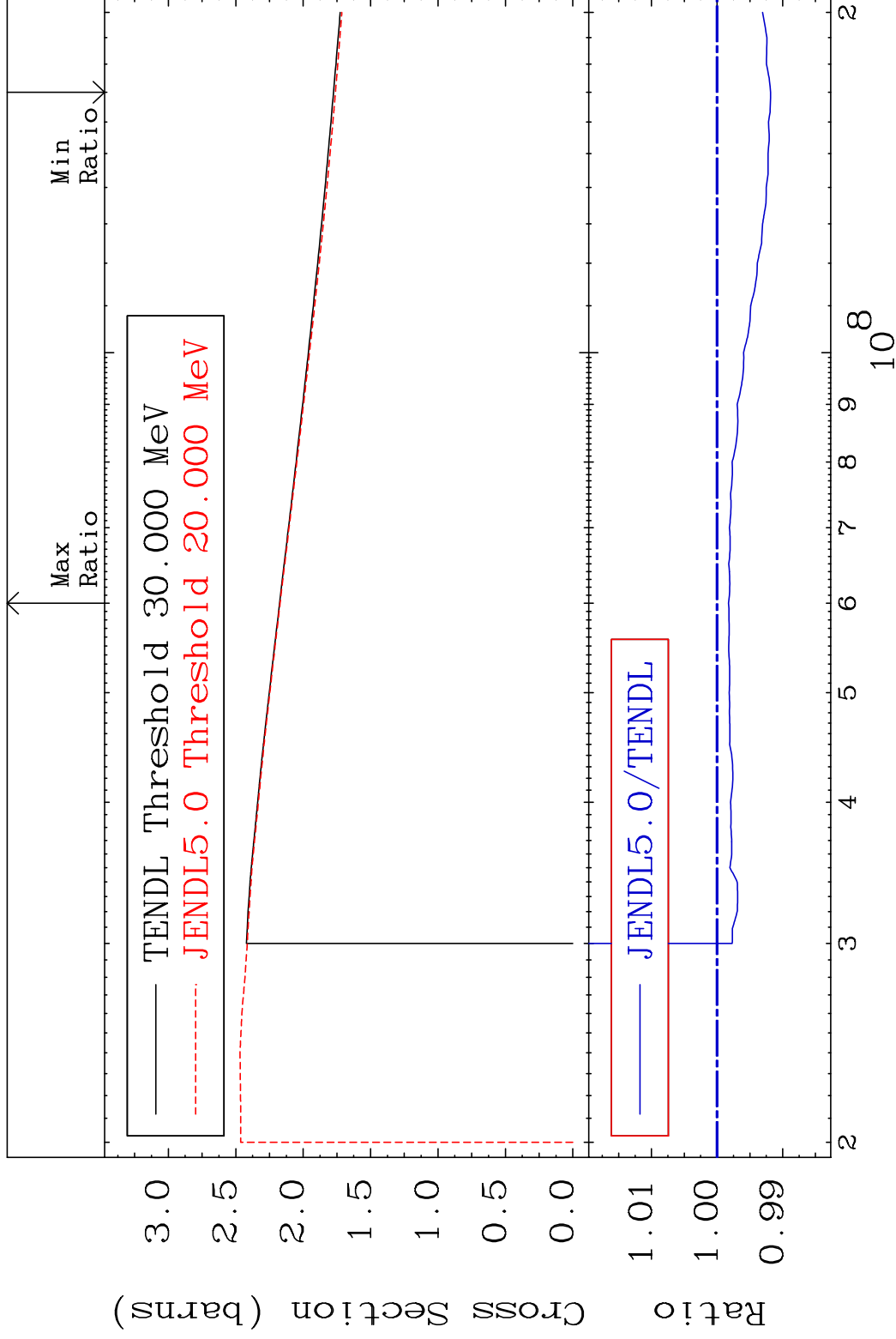


MAT 8228

(n, remainder)

82-Pb-205

Cross Section -0.816 To -0.175%



4

Incident Energy (eV)

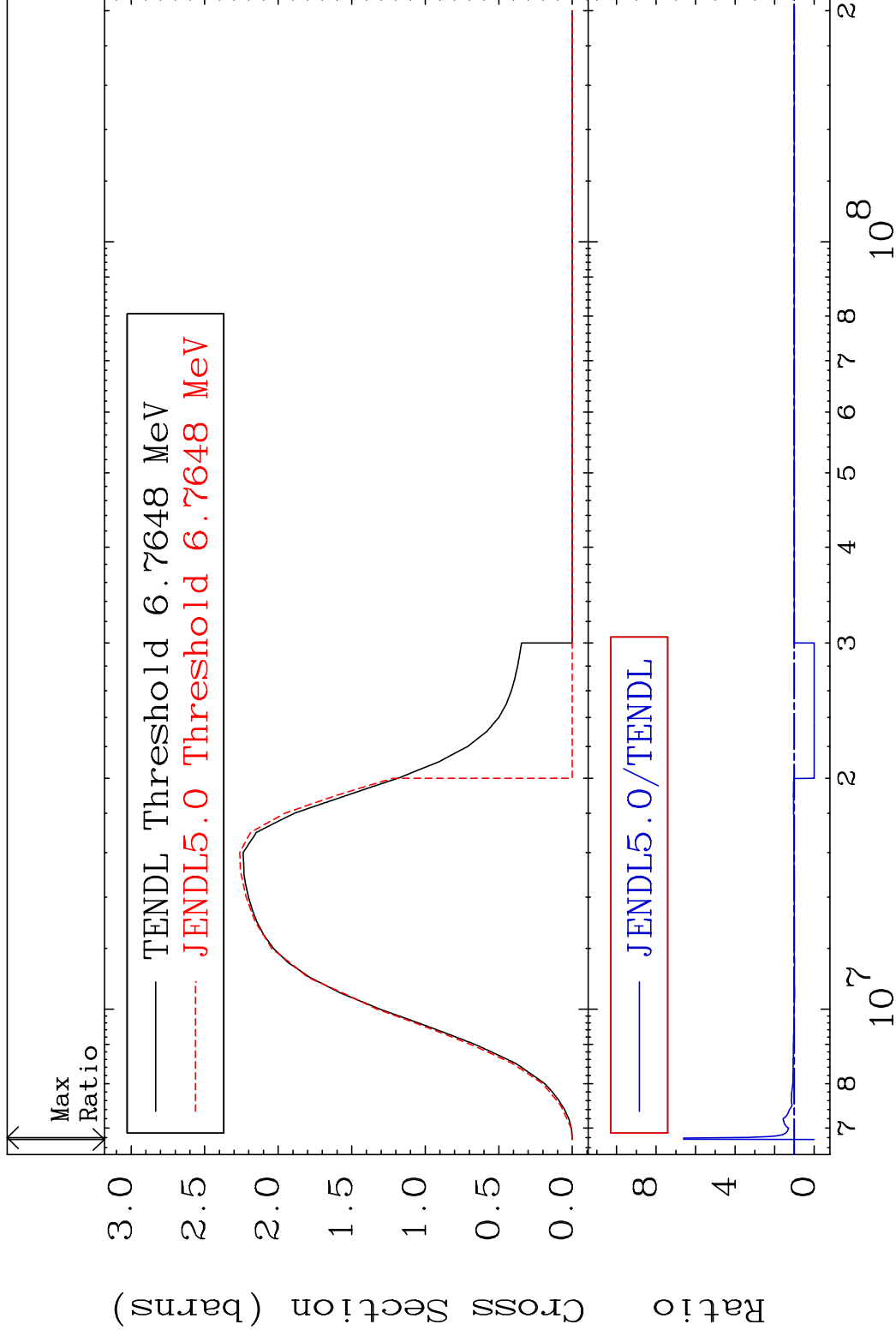
82-Pb-205

MAT 8228

(n,2n)

82-Pb-205

Cross Section -100.0 To 560.3 %



5

Incident Energy (eV)

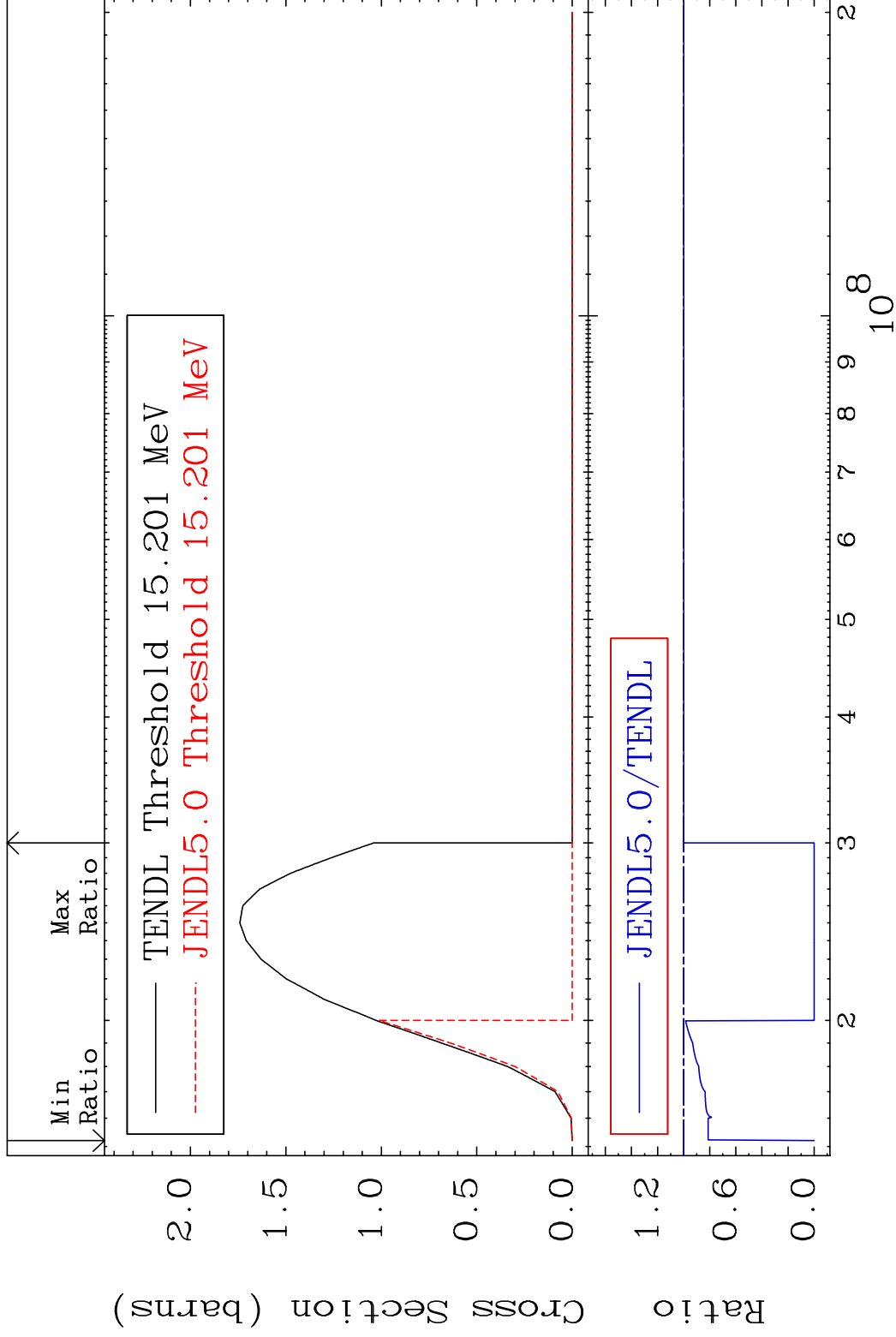
82-Pb-205

MAT 8228

(n,3n)

82-Pb-205

Cross Section -100.0 To 0.000 %



6

Incident Energy (eV)

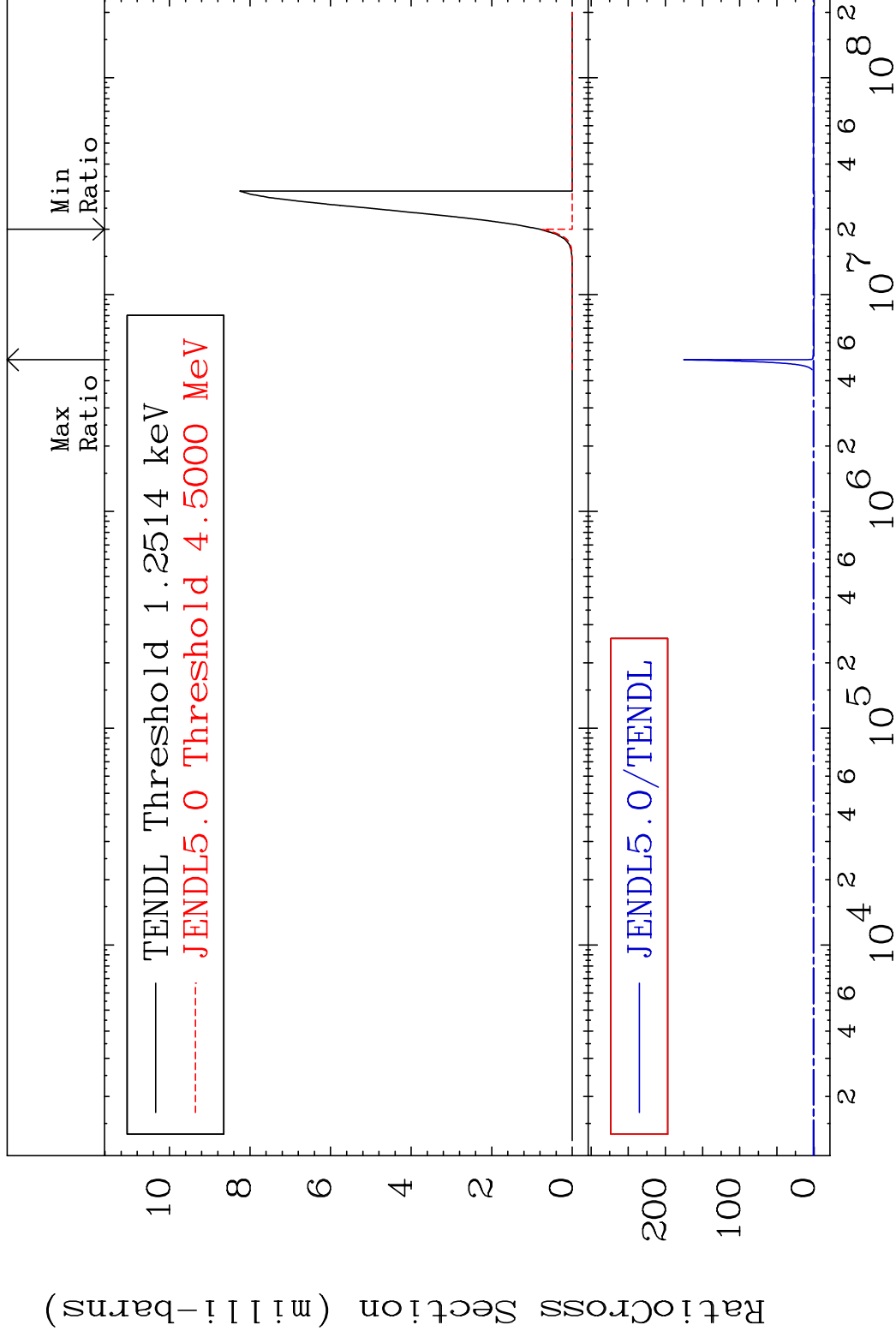
82-Pb-205

MAT 8228

(n, n')  $\alpha$

82-Pb-205

Cross Section -100.0 To 9999. %

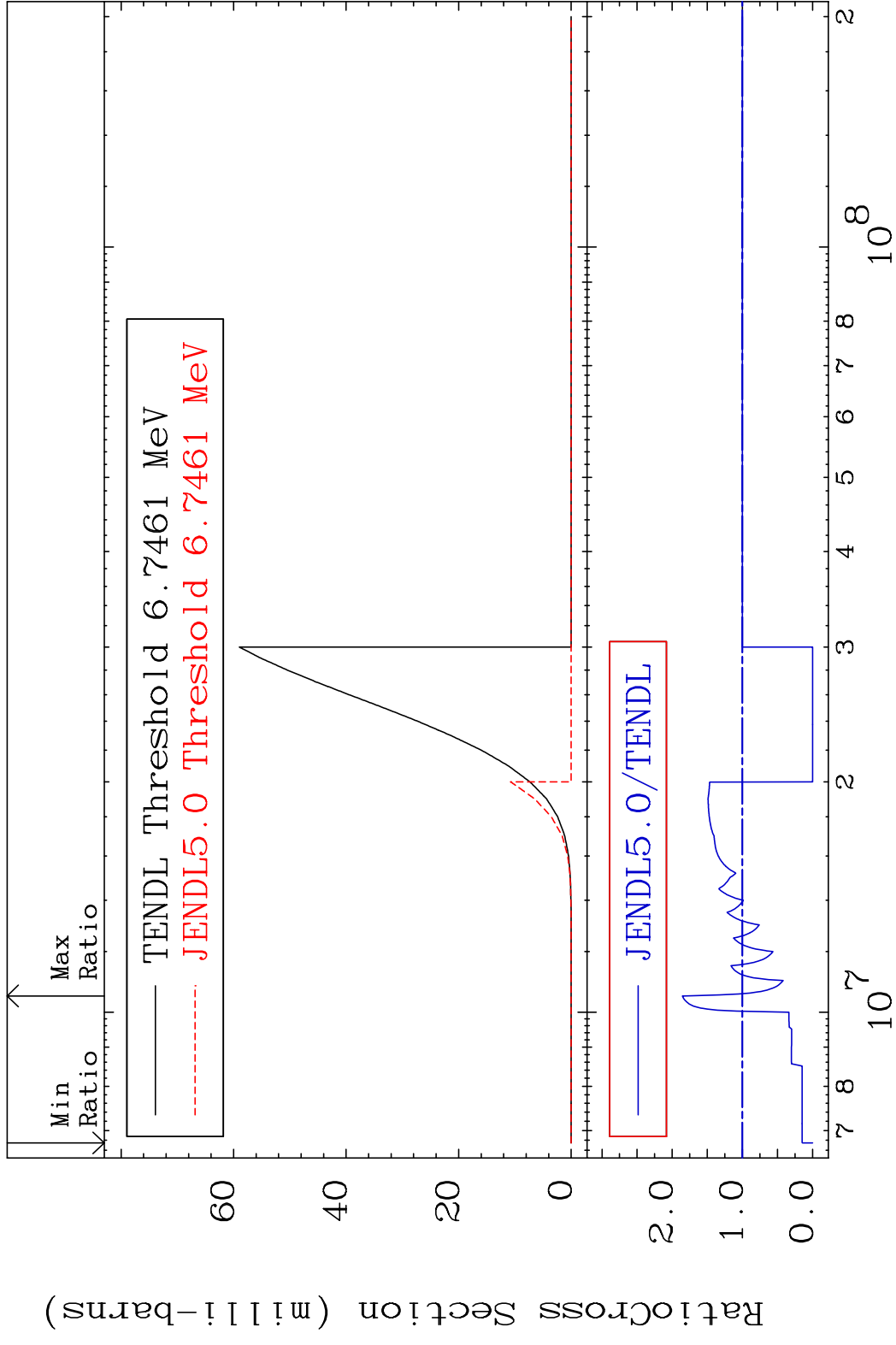


7

Incident Energy (eV)

82-Pb-205

MAT 8228 (n, n') p 82-Pb-205  
 Cross Section -100.0 To 85.52 %



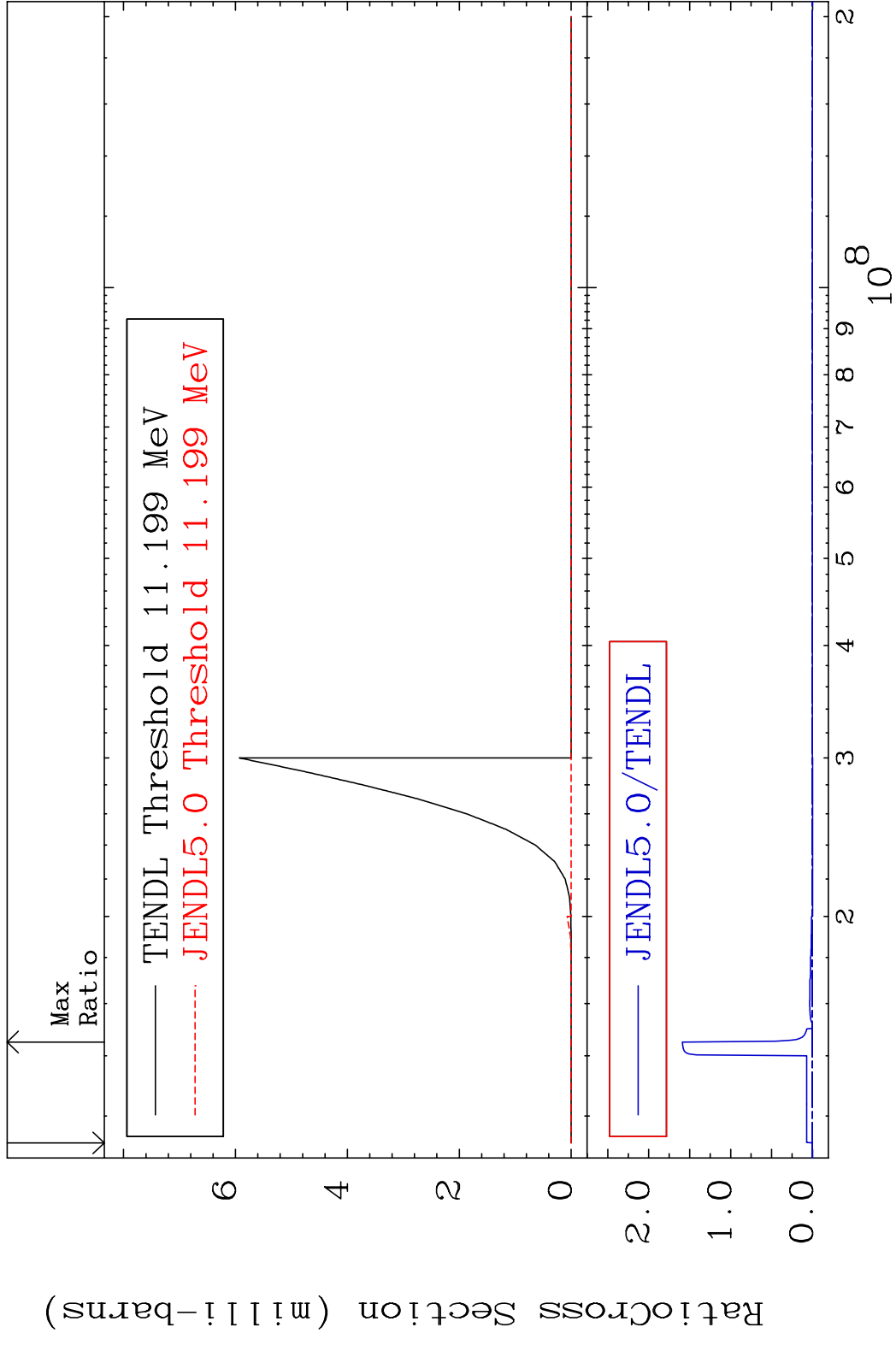
8 8 82-Pb-205

MAT 8228

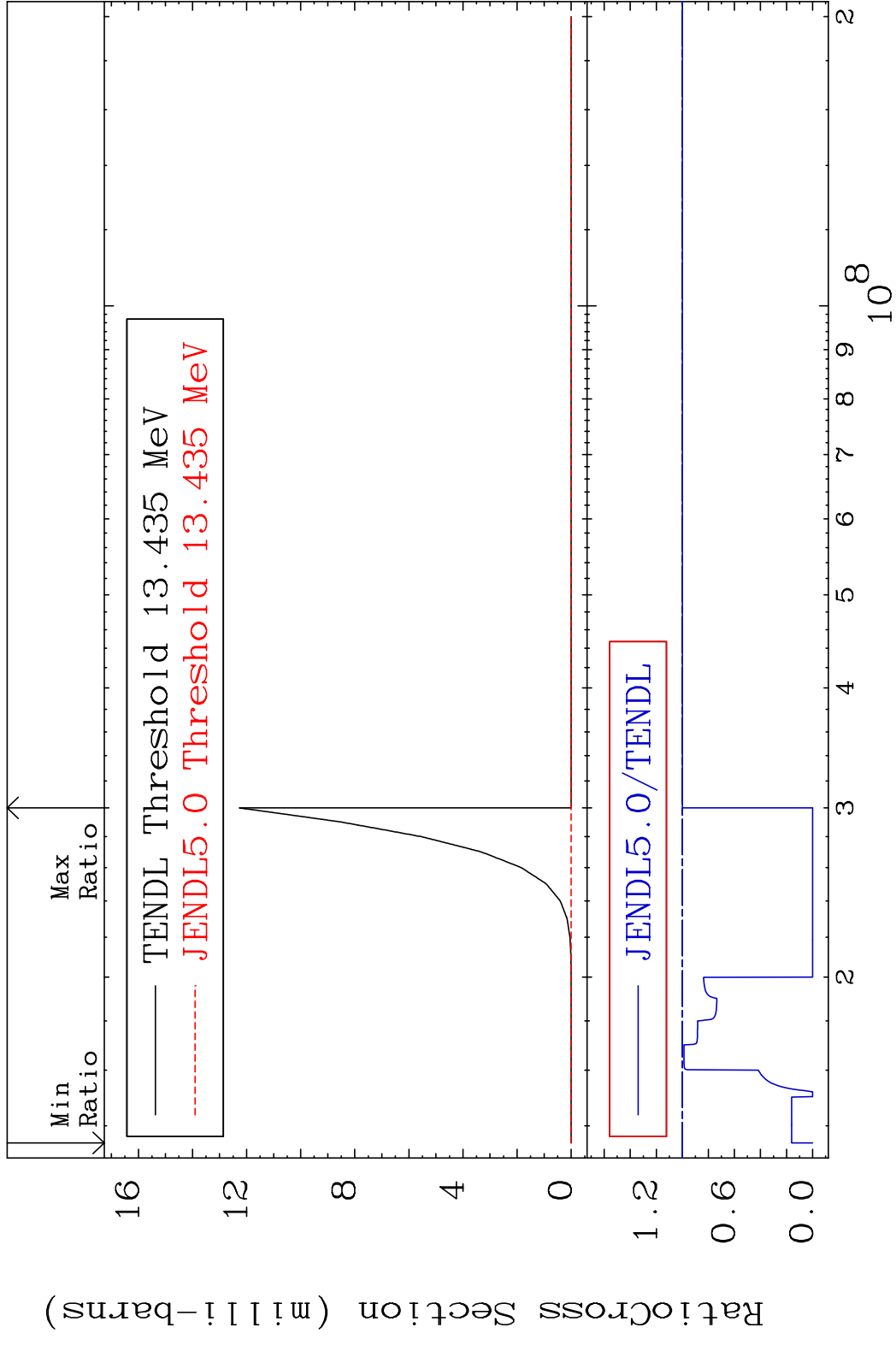
(n, n') d

82-Pb-205

Cross Section -100.0 To 9999. %

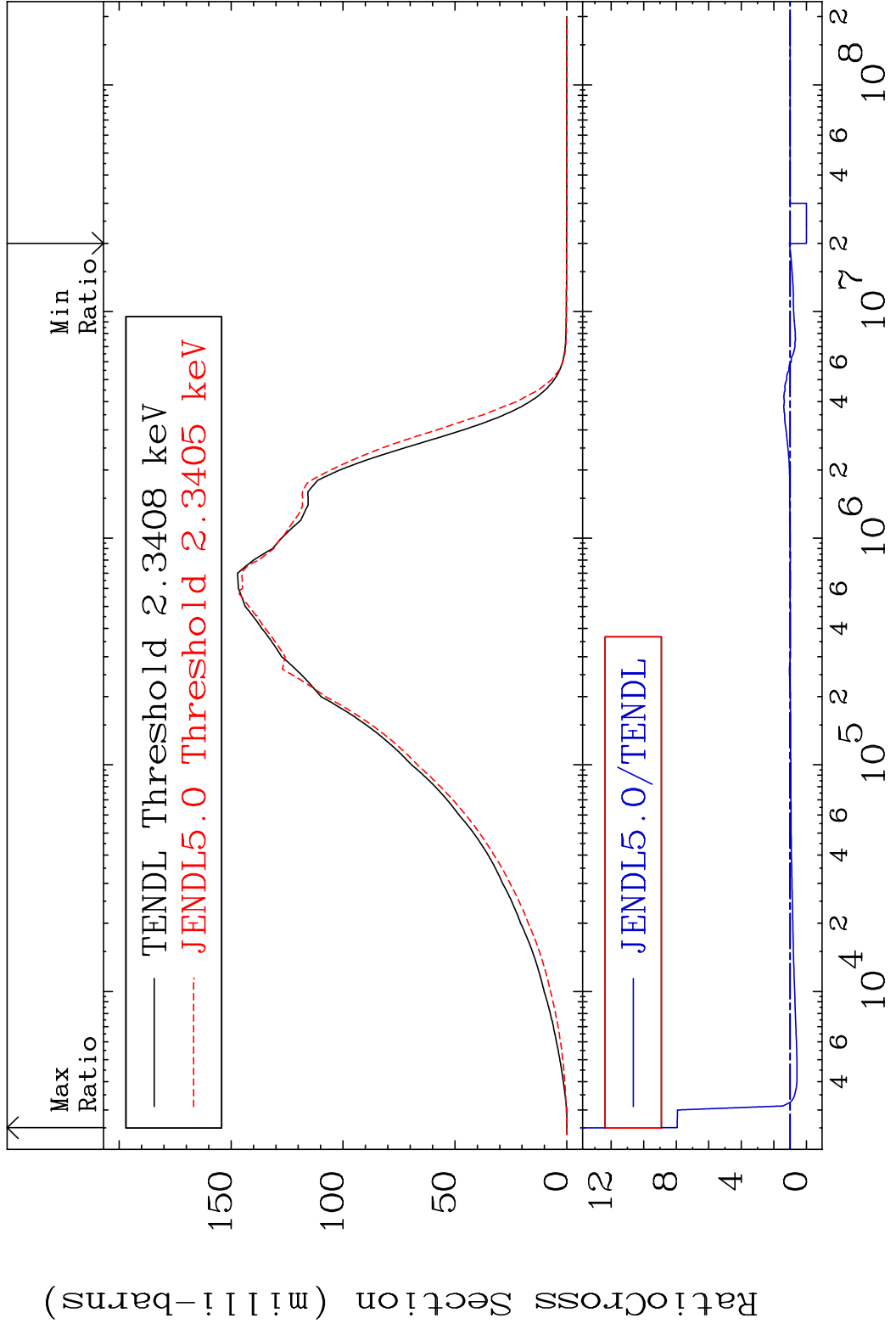


MAT 8228 (n,2n) p 82-Pb-205  
 Cross Section -100.0 To 0.000 %

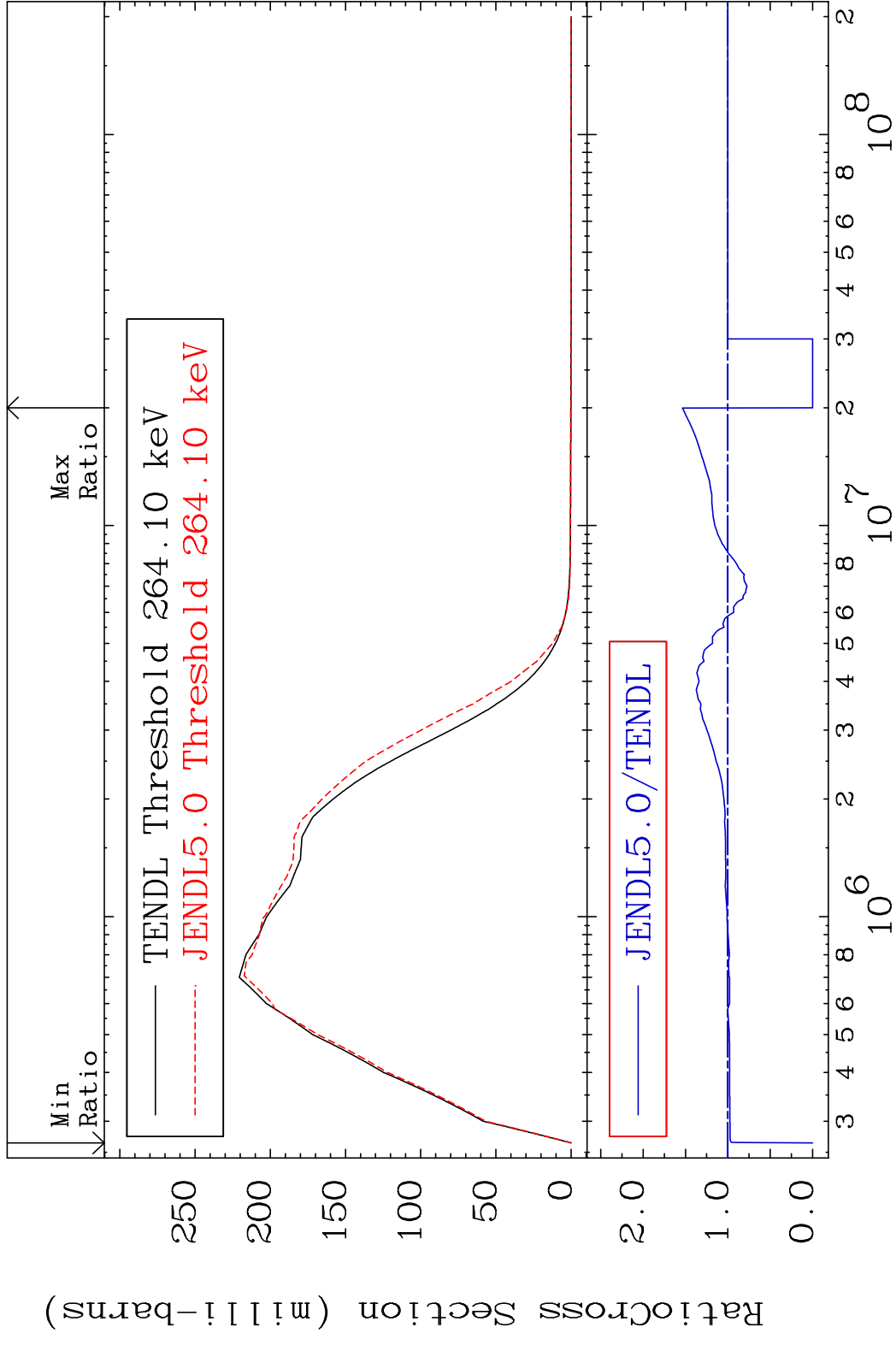


10 Incident Energy (eV) 82-Pb-205

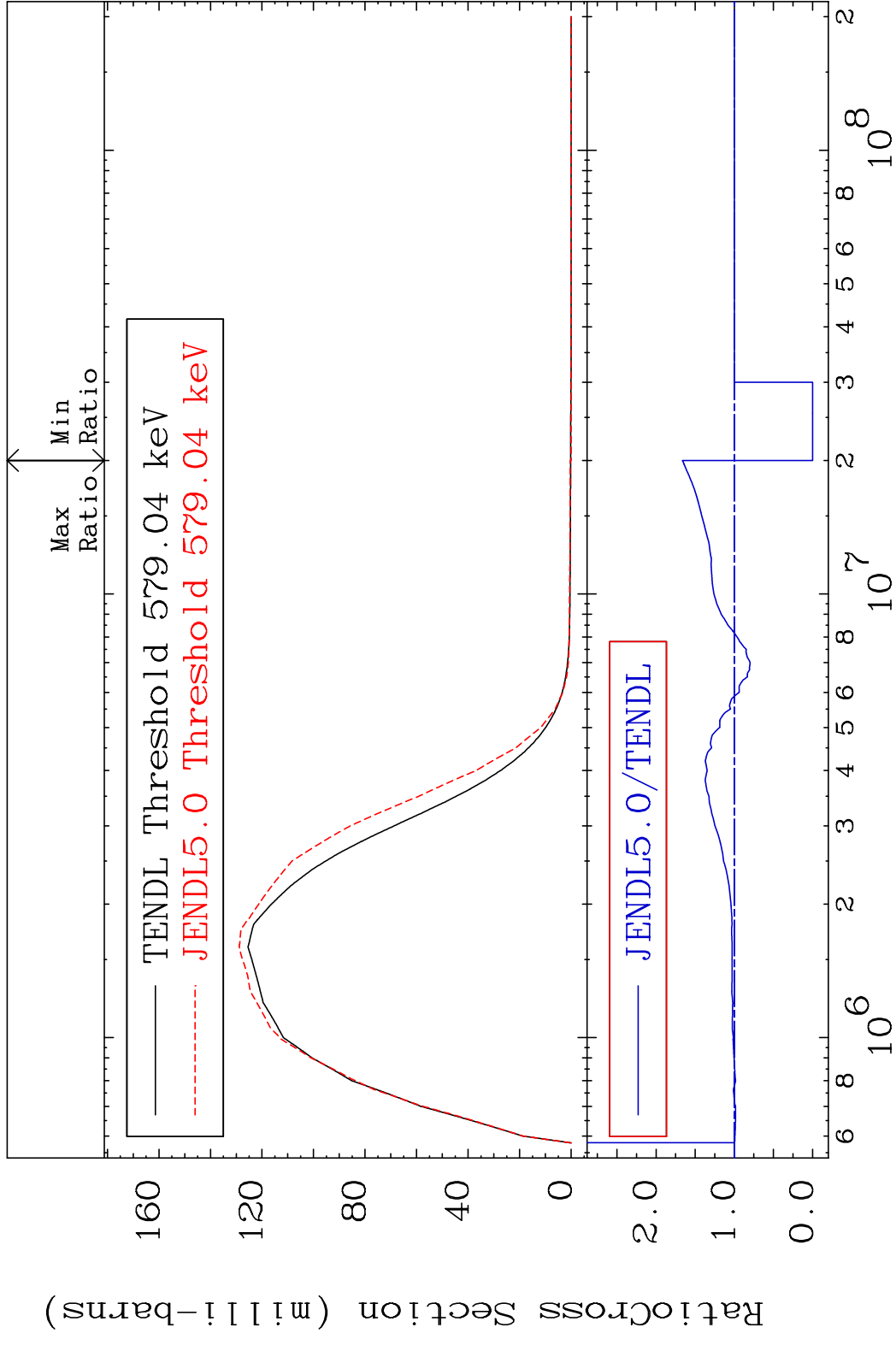
MAT 8228 MT= 51 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 694.2 %



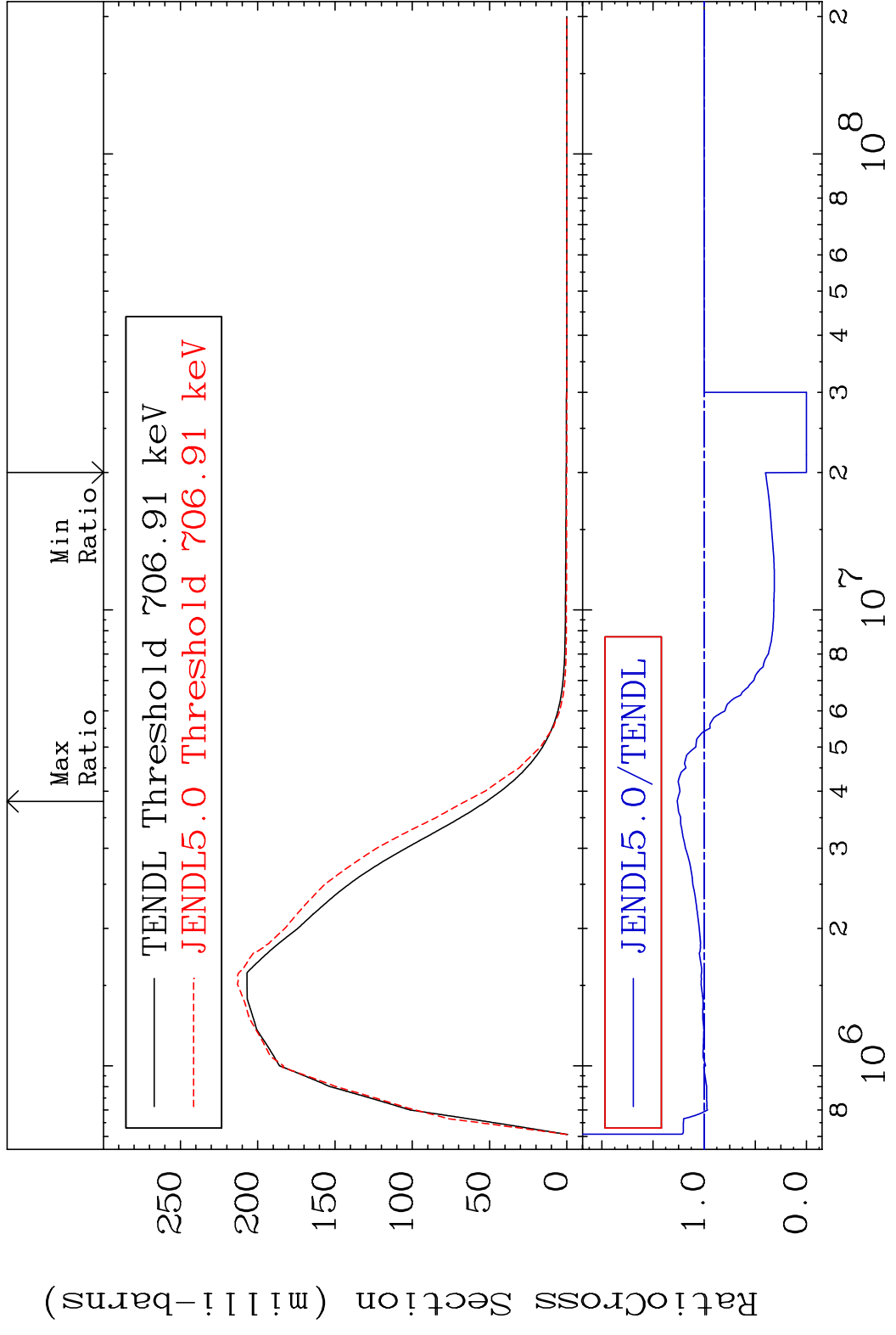
MAT 8228 MT= 52 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 53.68 %



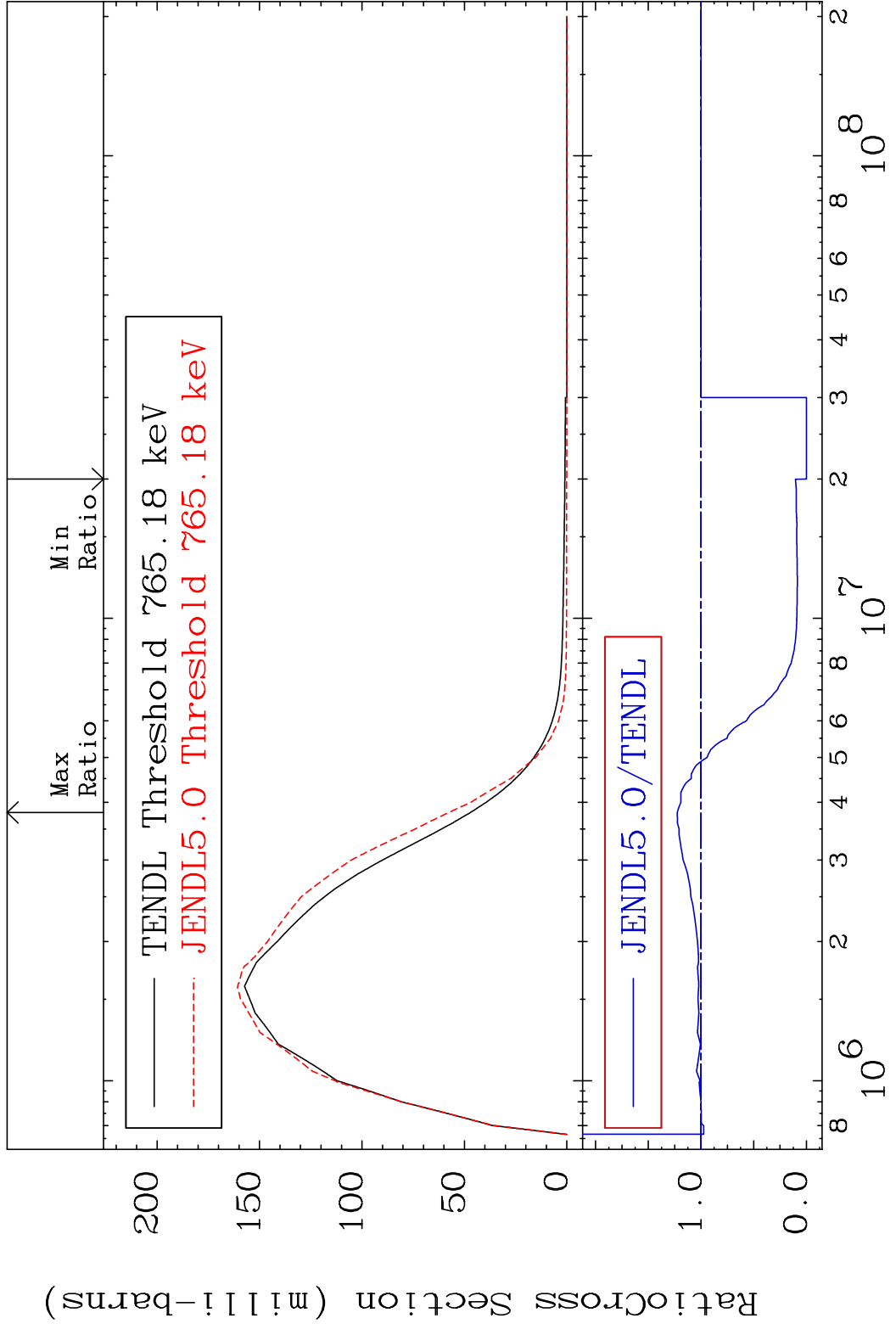
MAT 8228 MT= 53 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 66.40 %



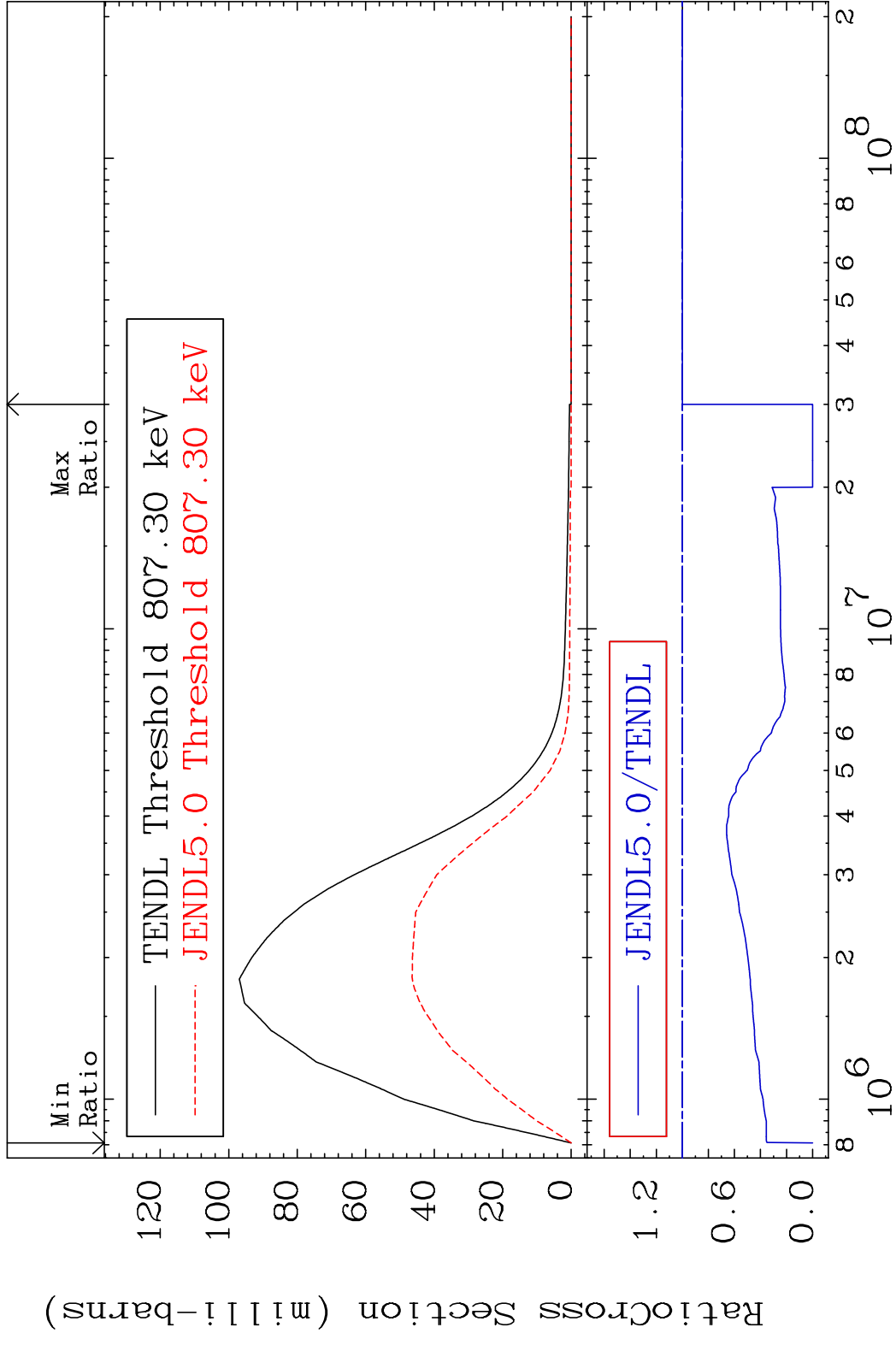
MAT 8228 MT= 54 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 26.35 %



MAT 8228 MT= 55 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 22.61 %

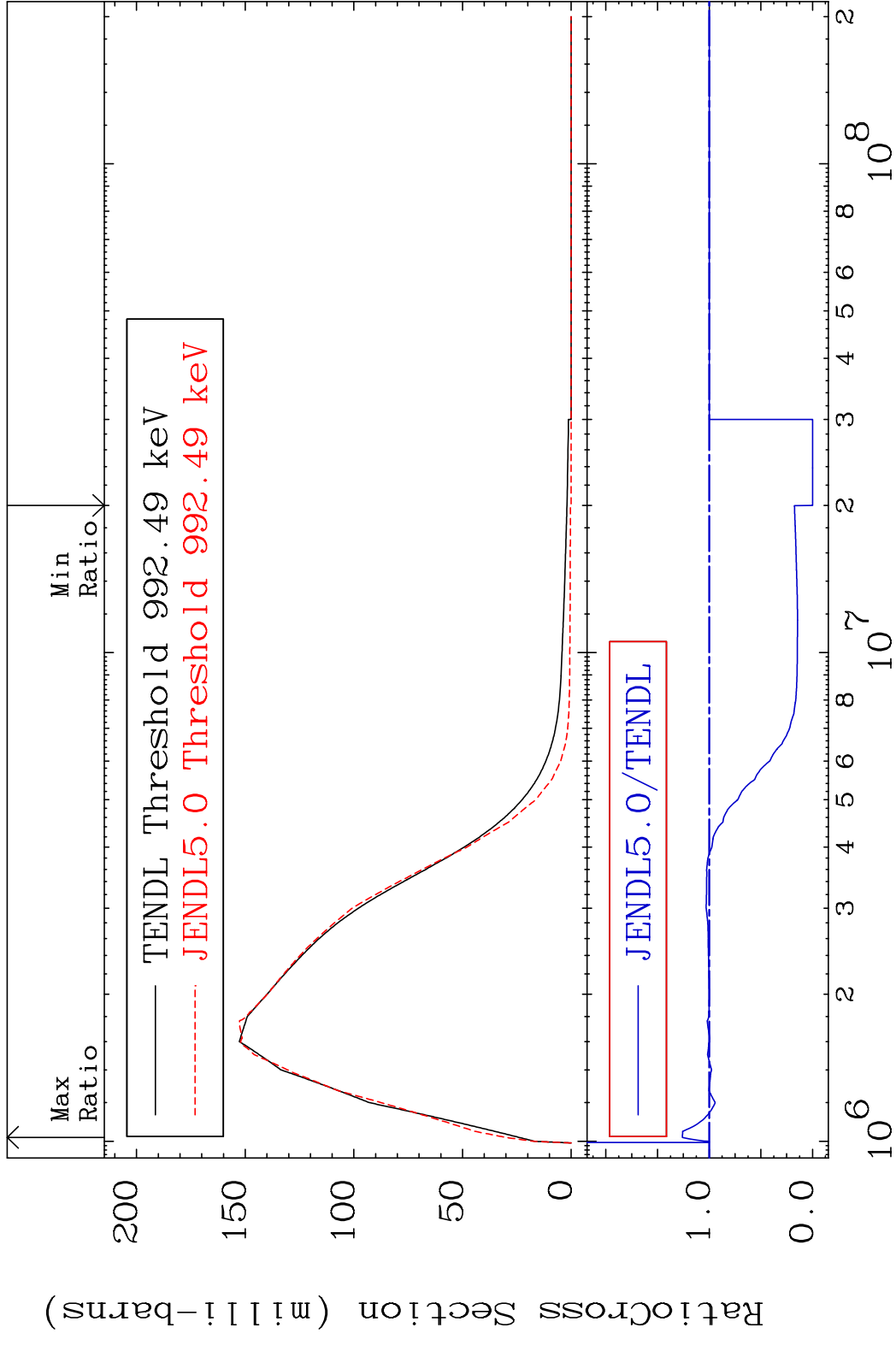


MAT 8228 MT= 56 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 0.000 %



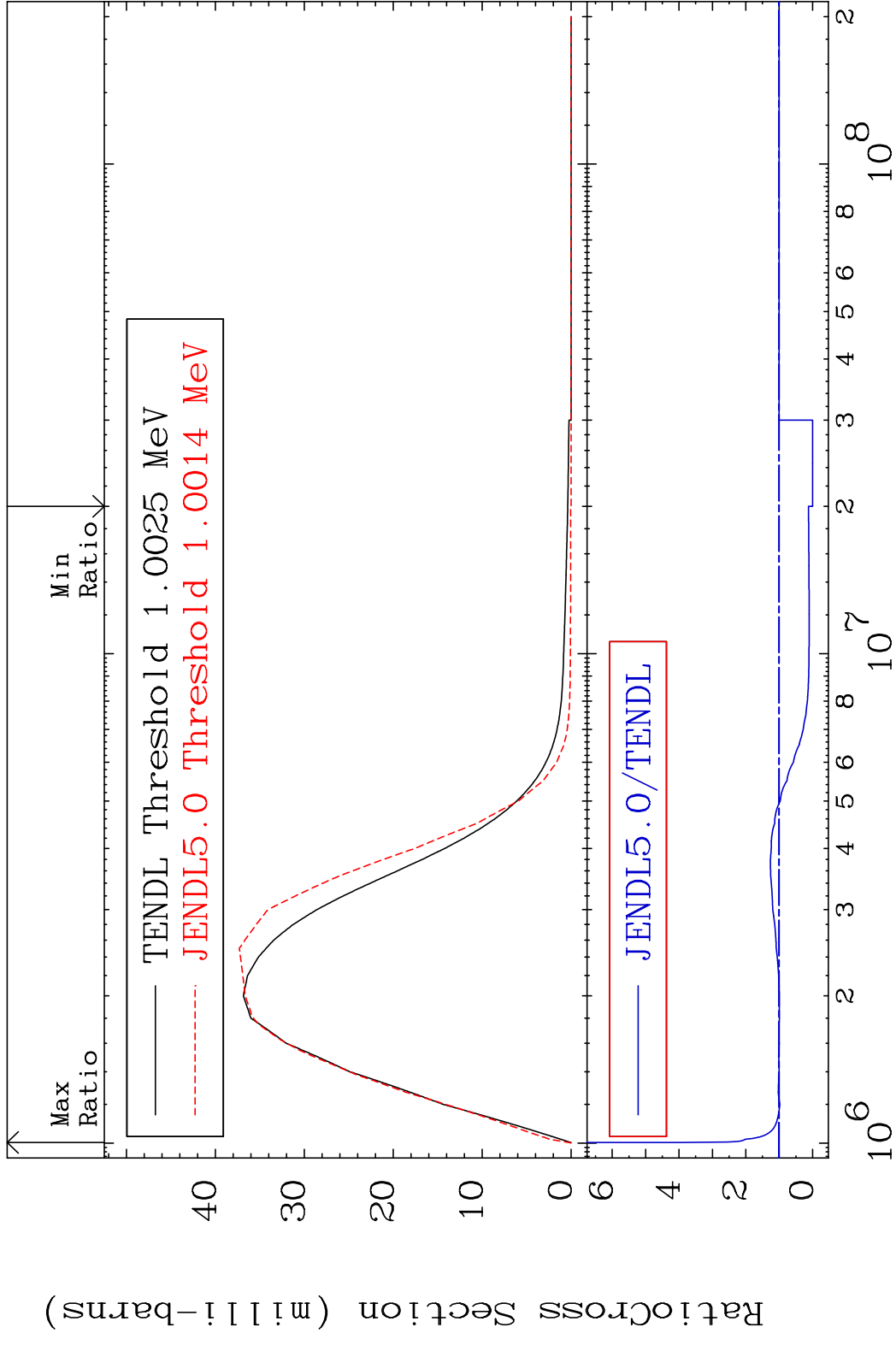
16 Incident Energy (eV) 82-Pb-205

MAT 8228 MT= 57 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 25.97 %



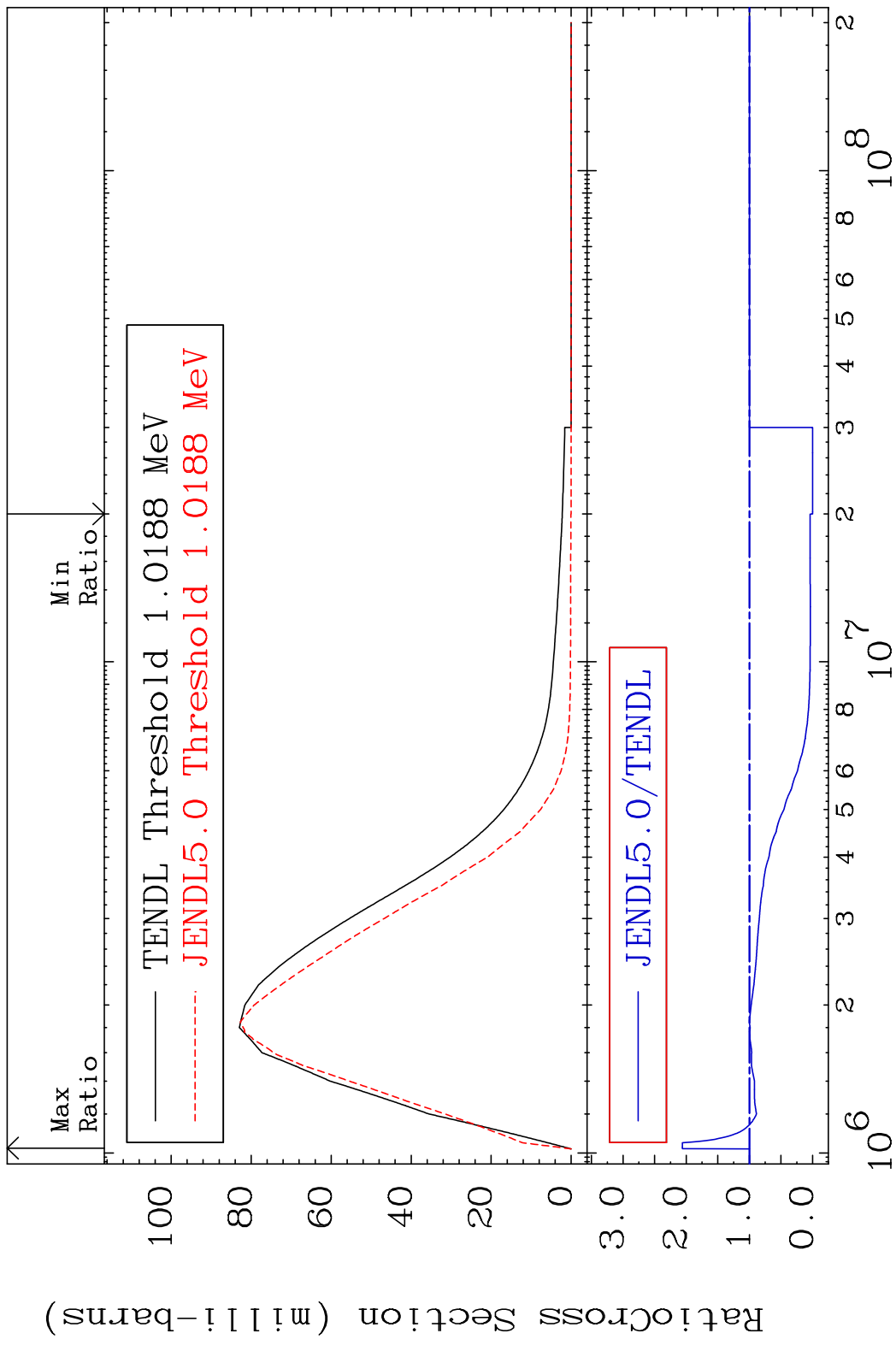
17 Incident Energy (eV) 82-Pb-205

MAT 8228 MT= 58 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 290.0 %



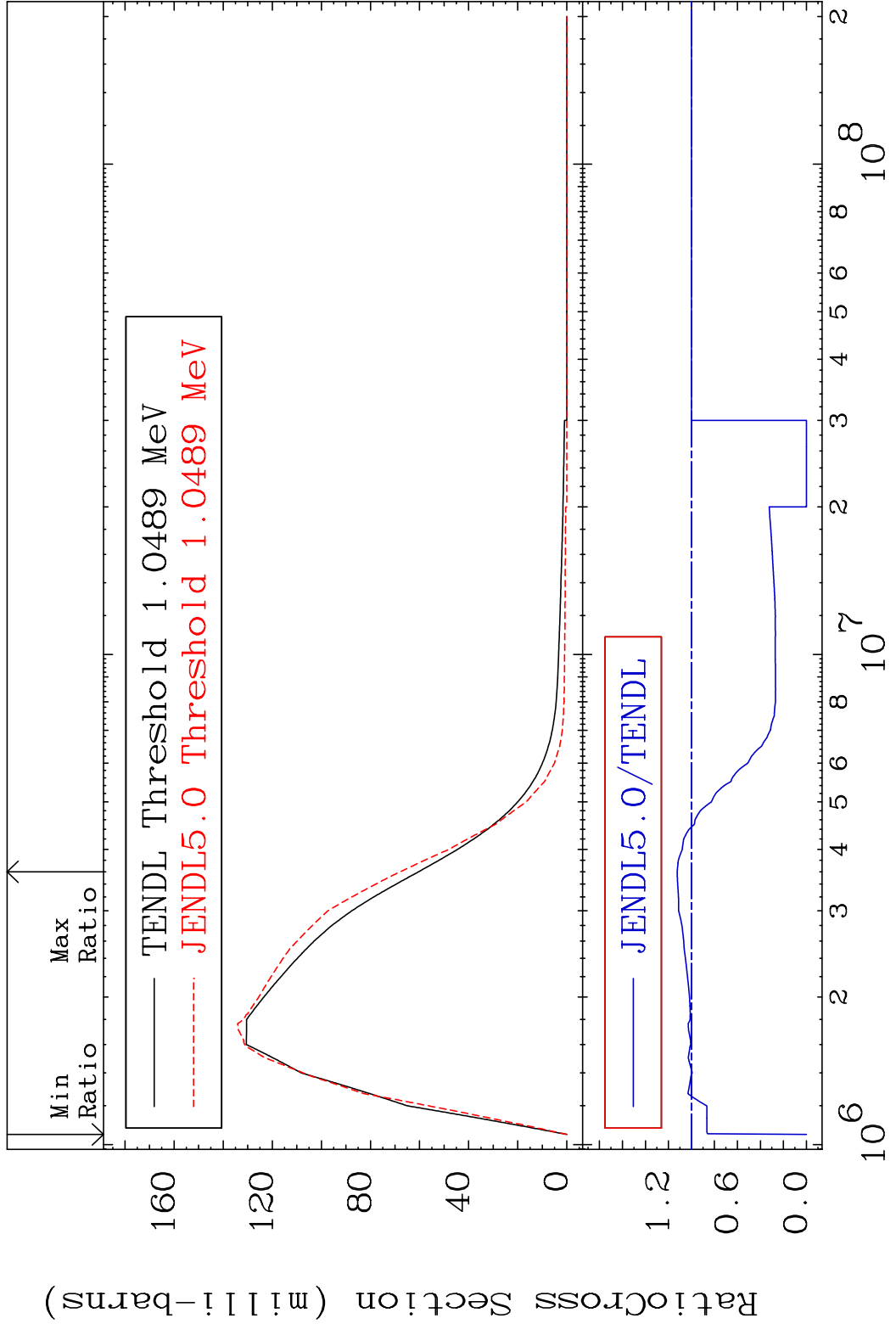
18 Incident Energy (eV) 82-Pb-205

MAT 8228 MT= 59 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 106.1 %



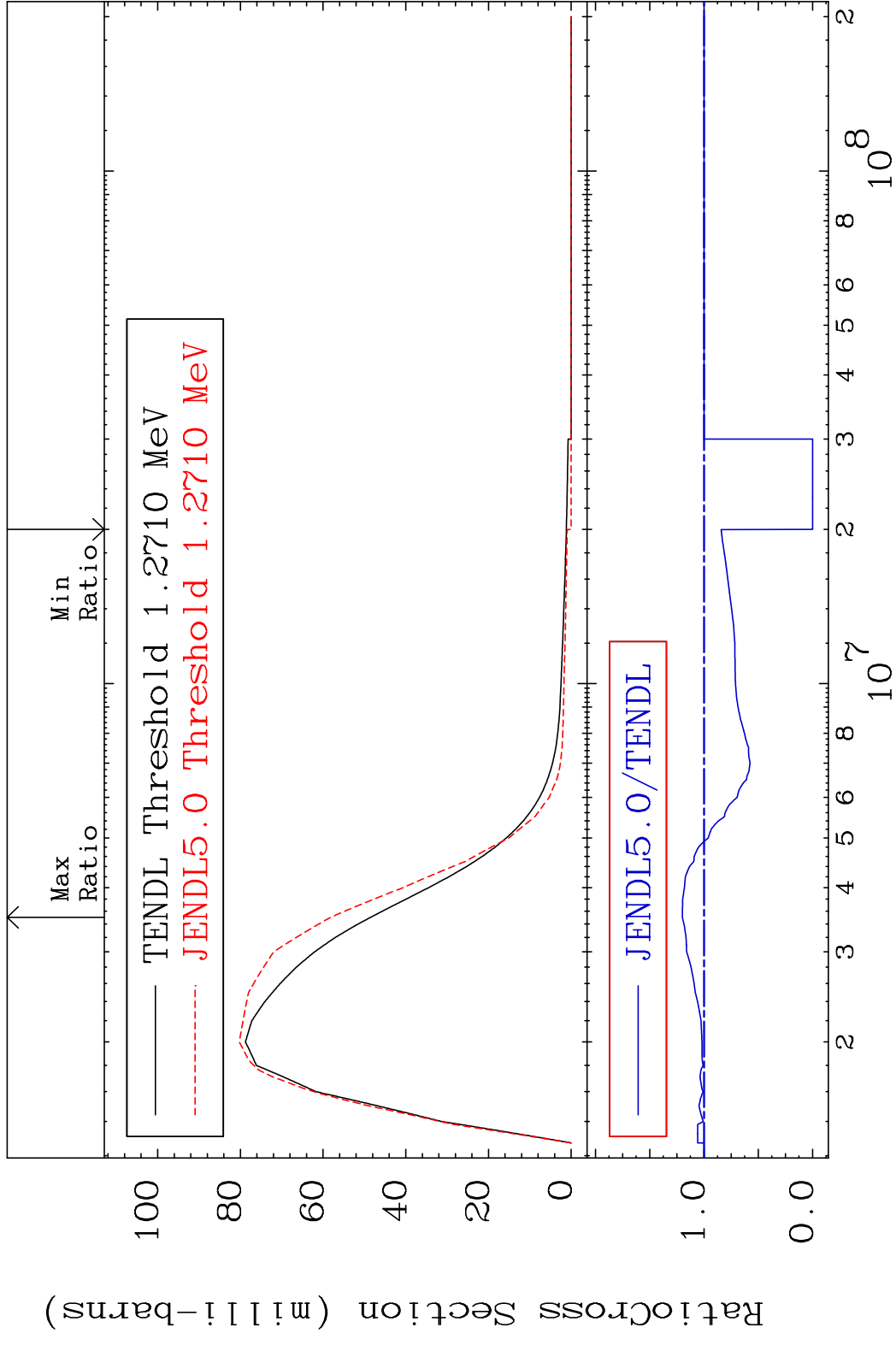
19 Incident Energy (eV) 82-Pb-205

MAT 8228 MT= 60 (n, n') Level 82-Pb-205  
Cross Section -100.0 To 12.40 %

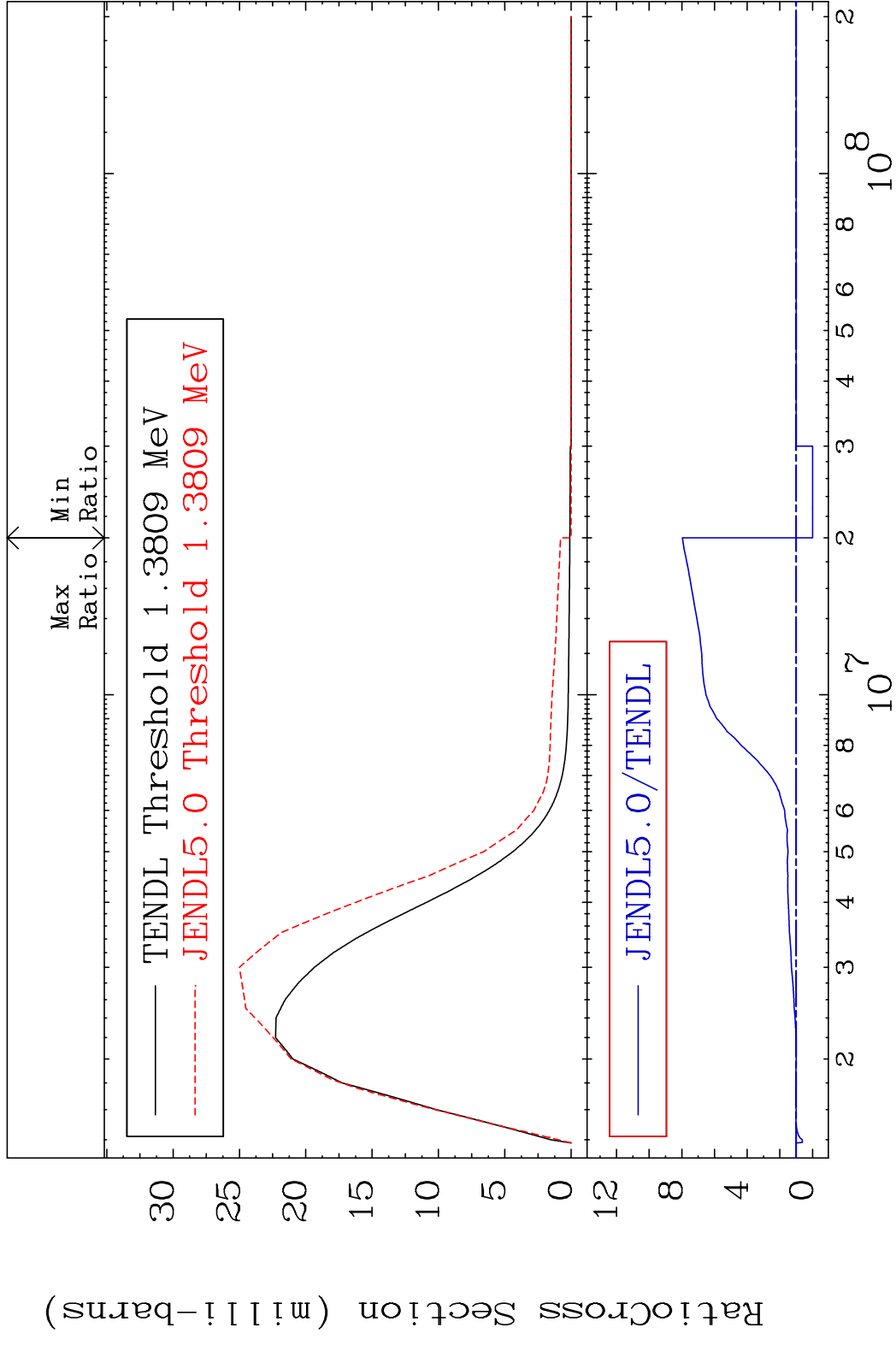


20 Incident Energy (eV) 82-Pb-205

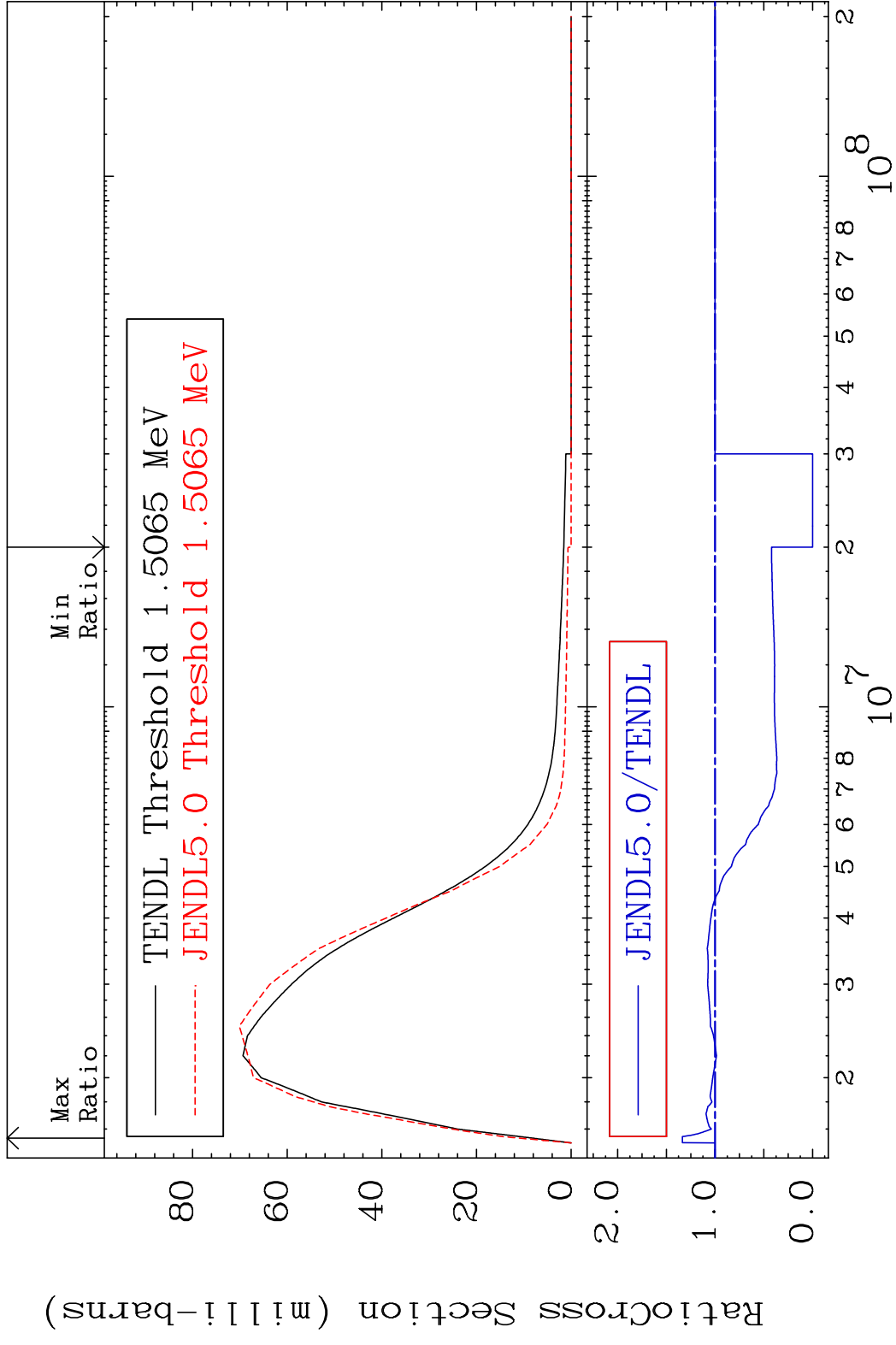
MAT 8228 MT= 61 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 19.94 %



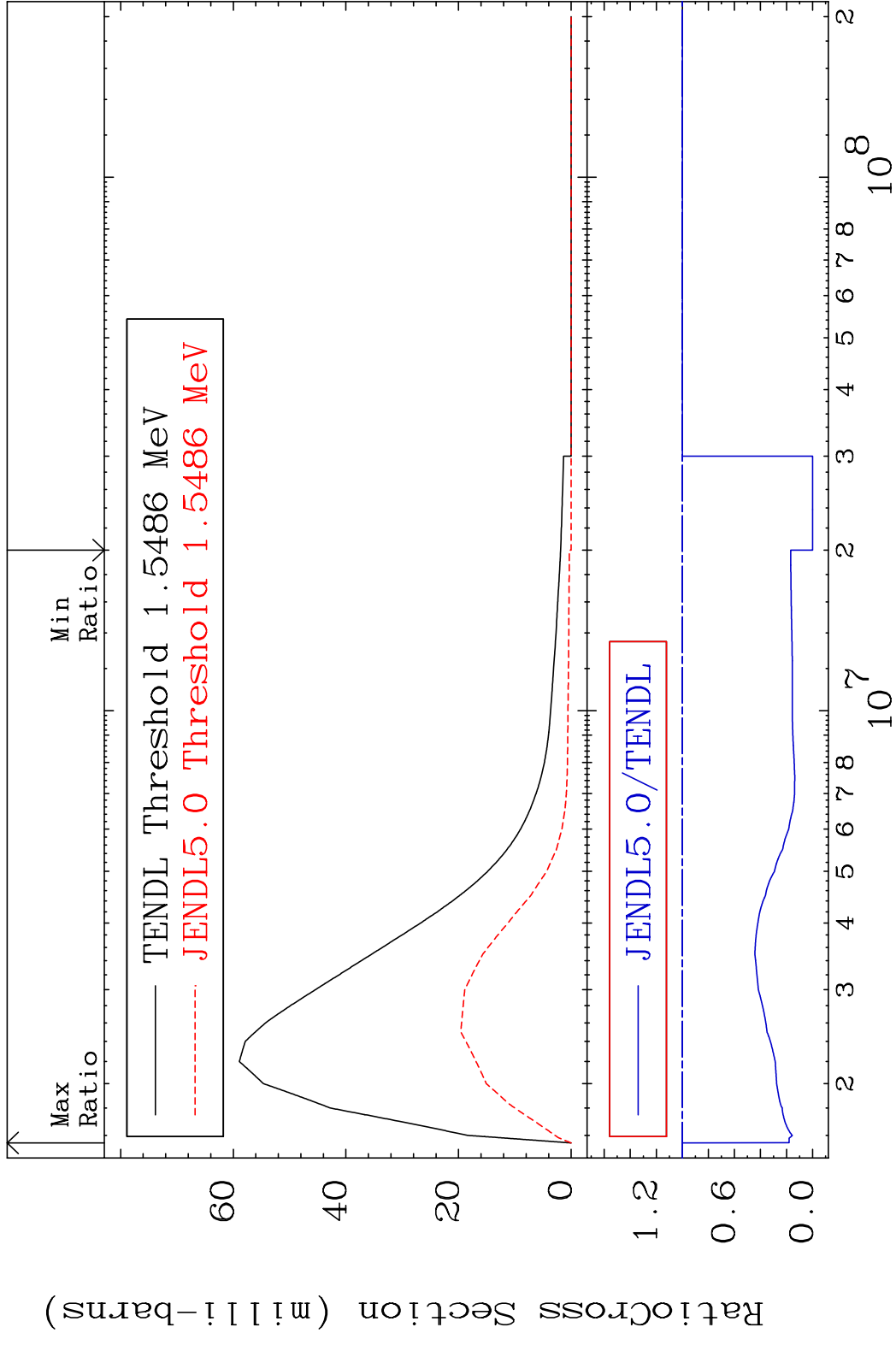
MAT 8228 MT= 62 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 696.9 %



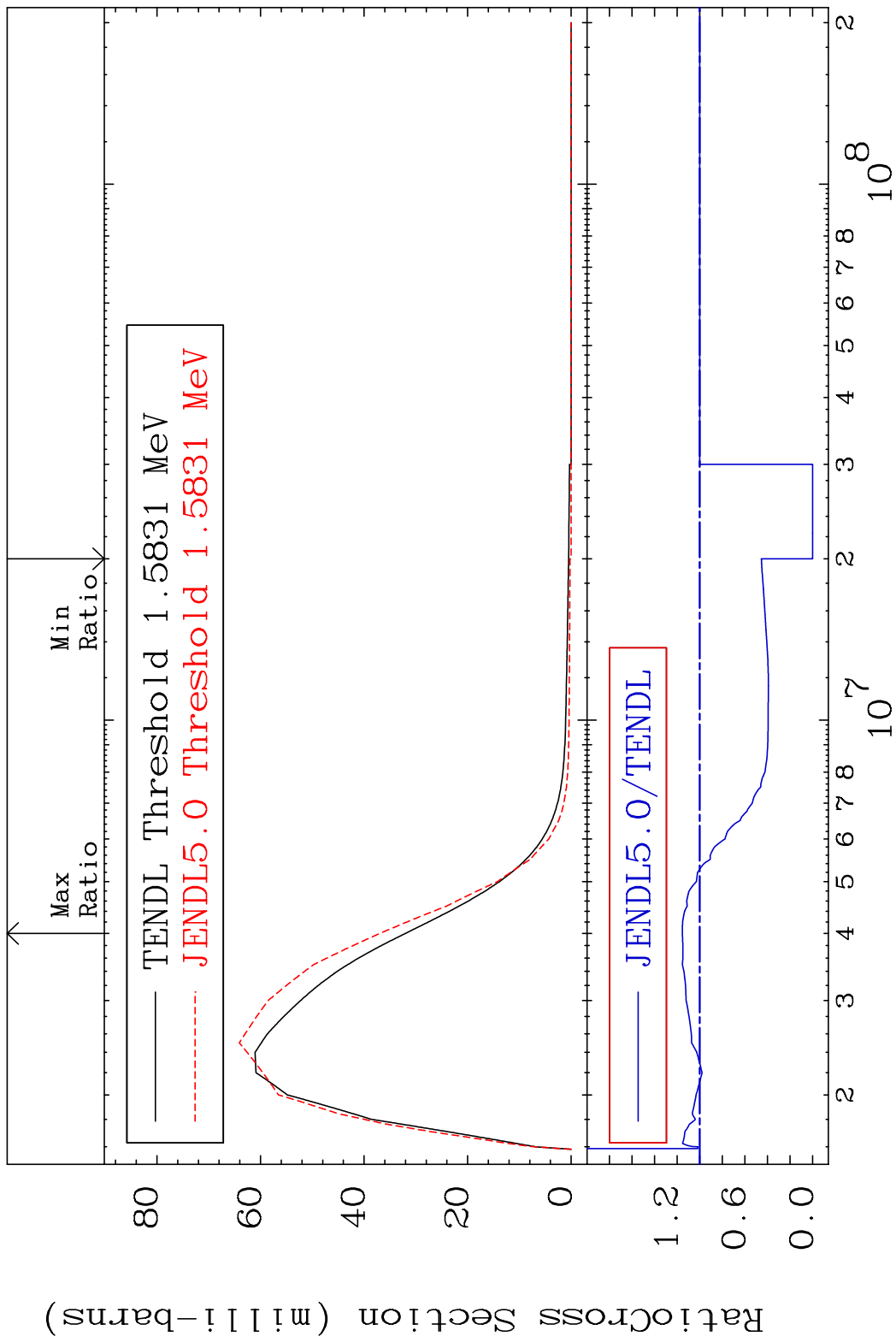
MAT 8228 MT= 63 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 33.61 %



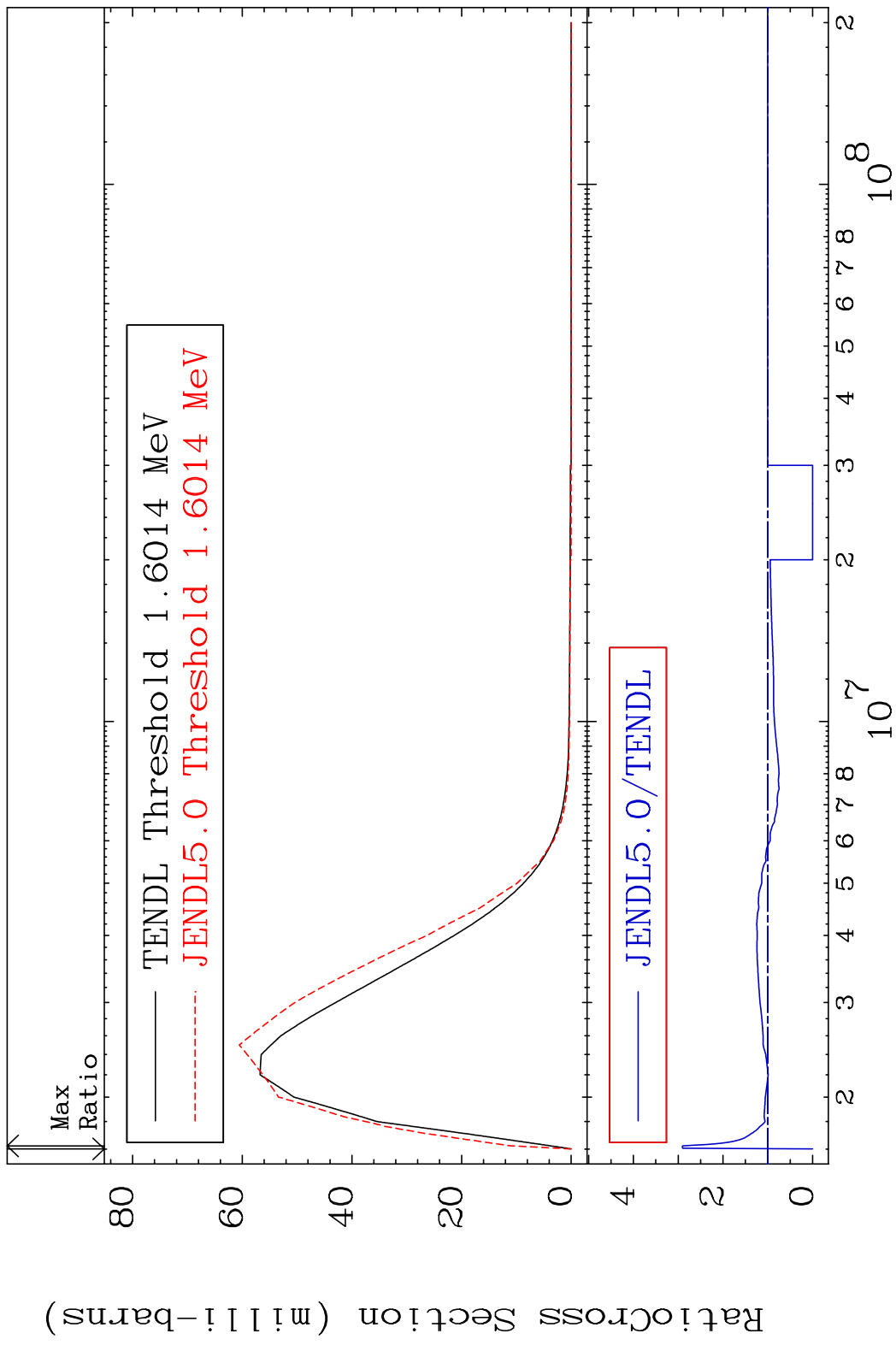
MAT 8228 MT= 64 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 0.000 %



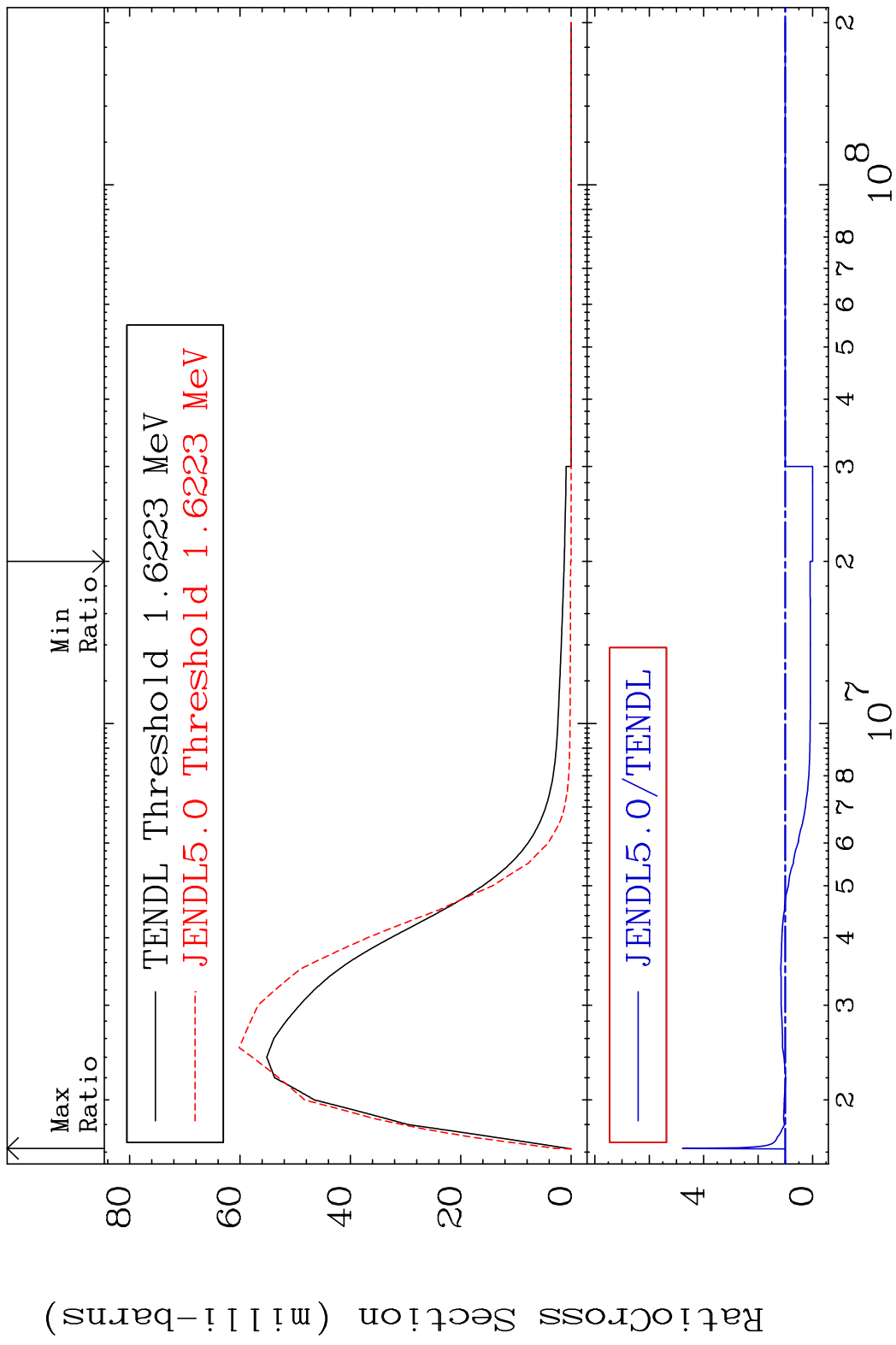
MAT 8228 MT= 65 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 15.32 %



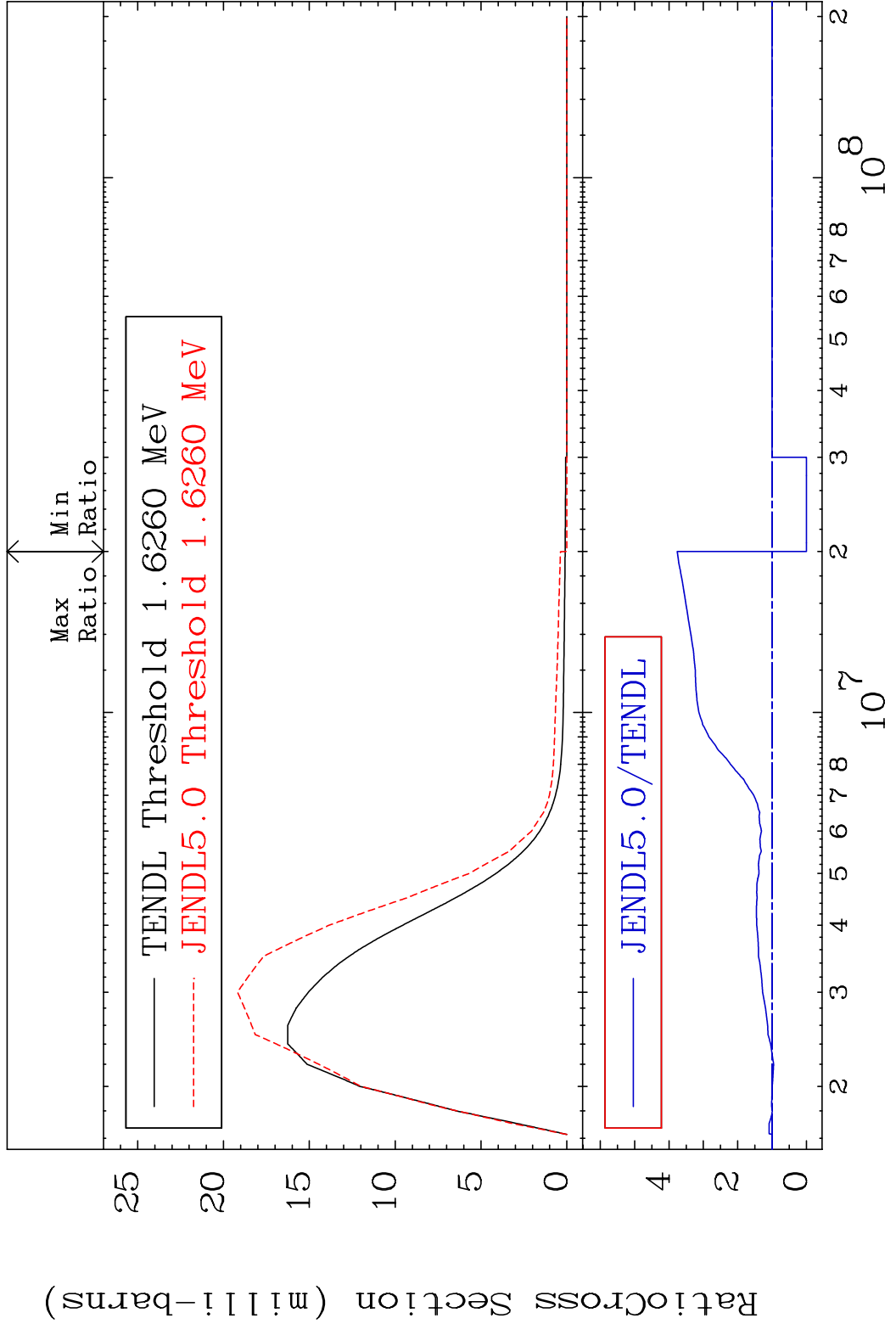
MAT 8228 MT= 66 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 190.7 %



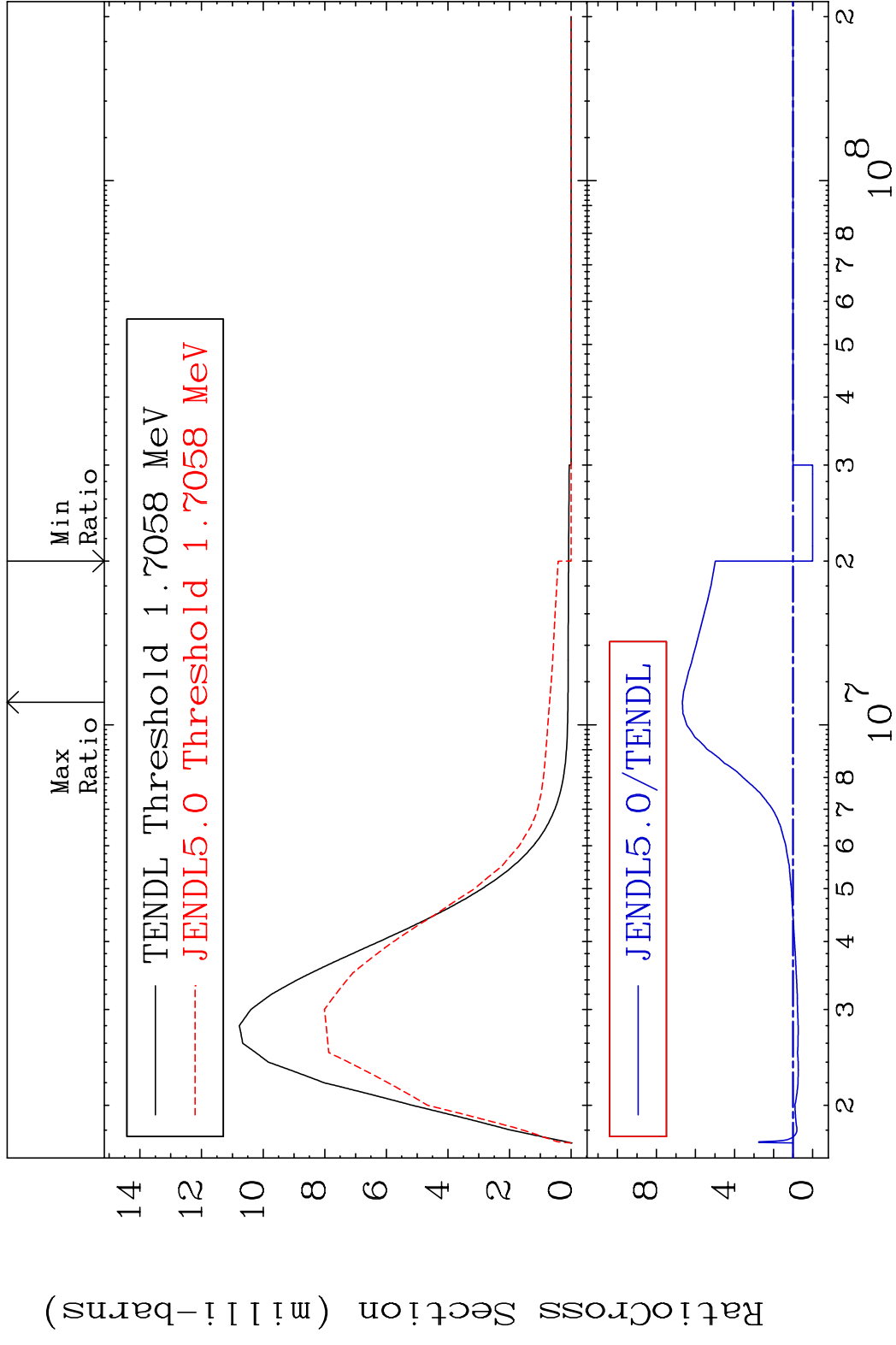
MAT 8228 MT= 67 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 378.3 %



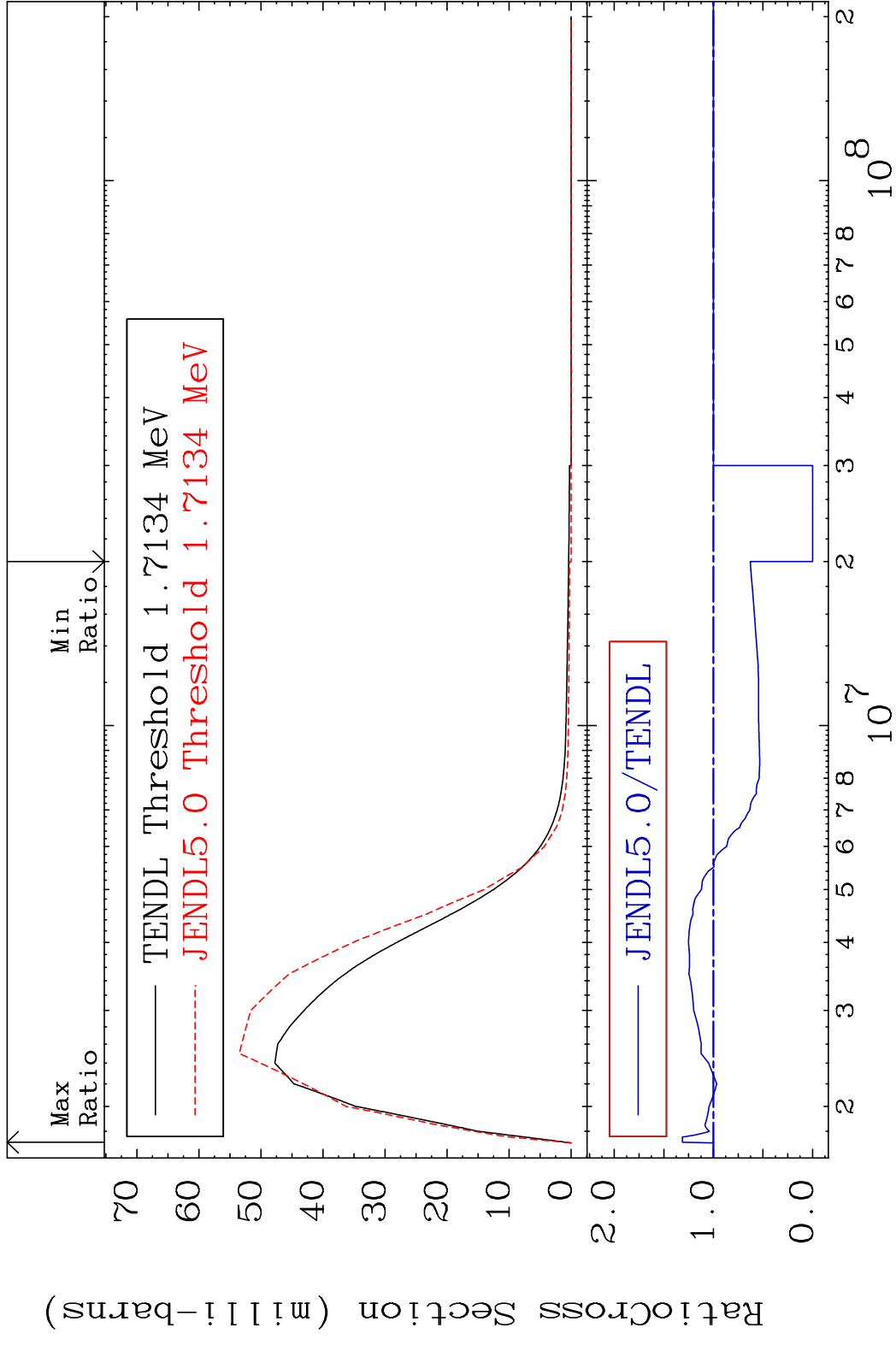
MAT 8228 MT= 68 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 276.2 %



MAT 8228 MT= 69 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 567.3 %

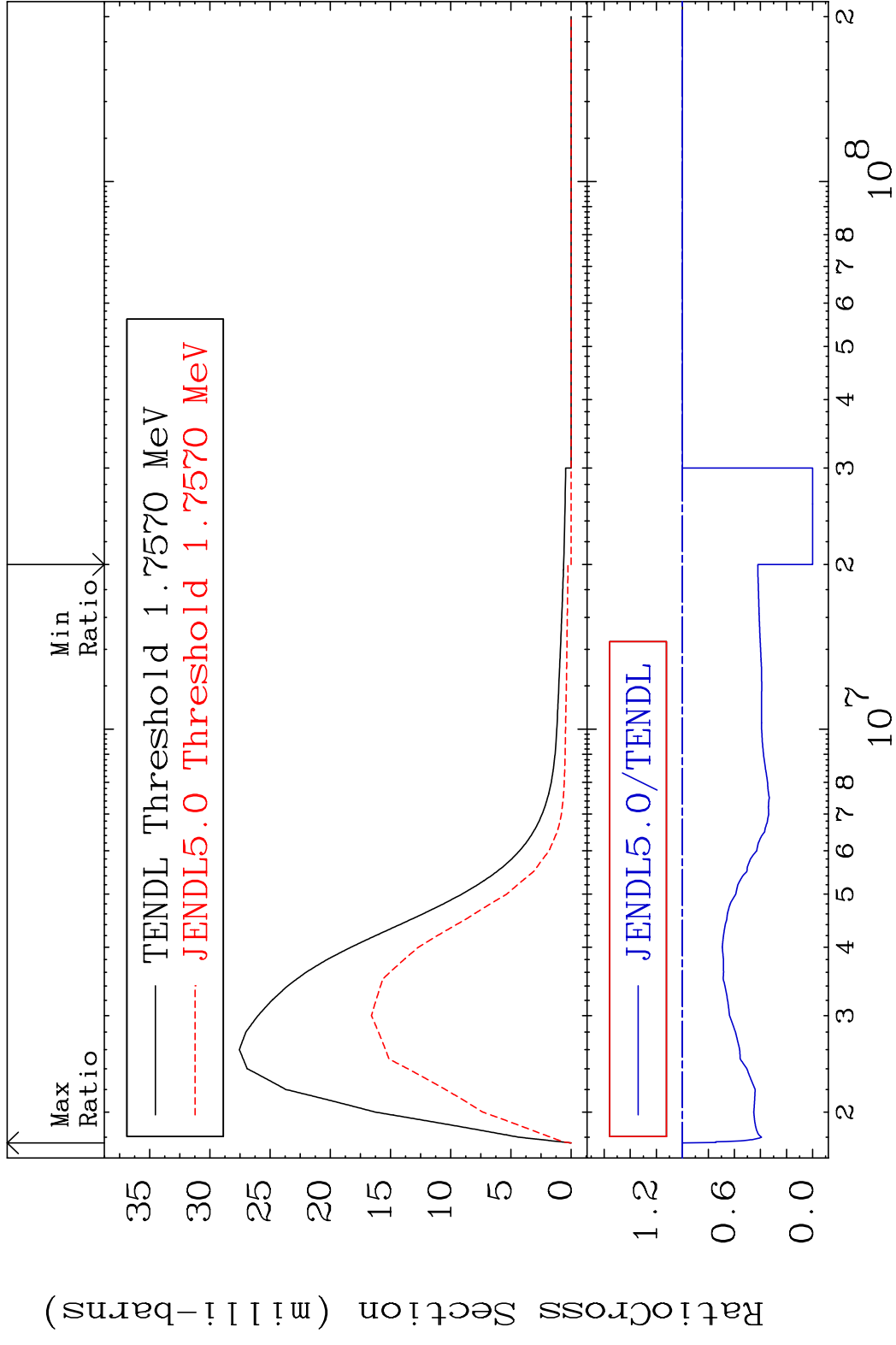


MAT 8228 MT= 70 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 31.33 %

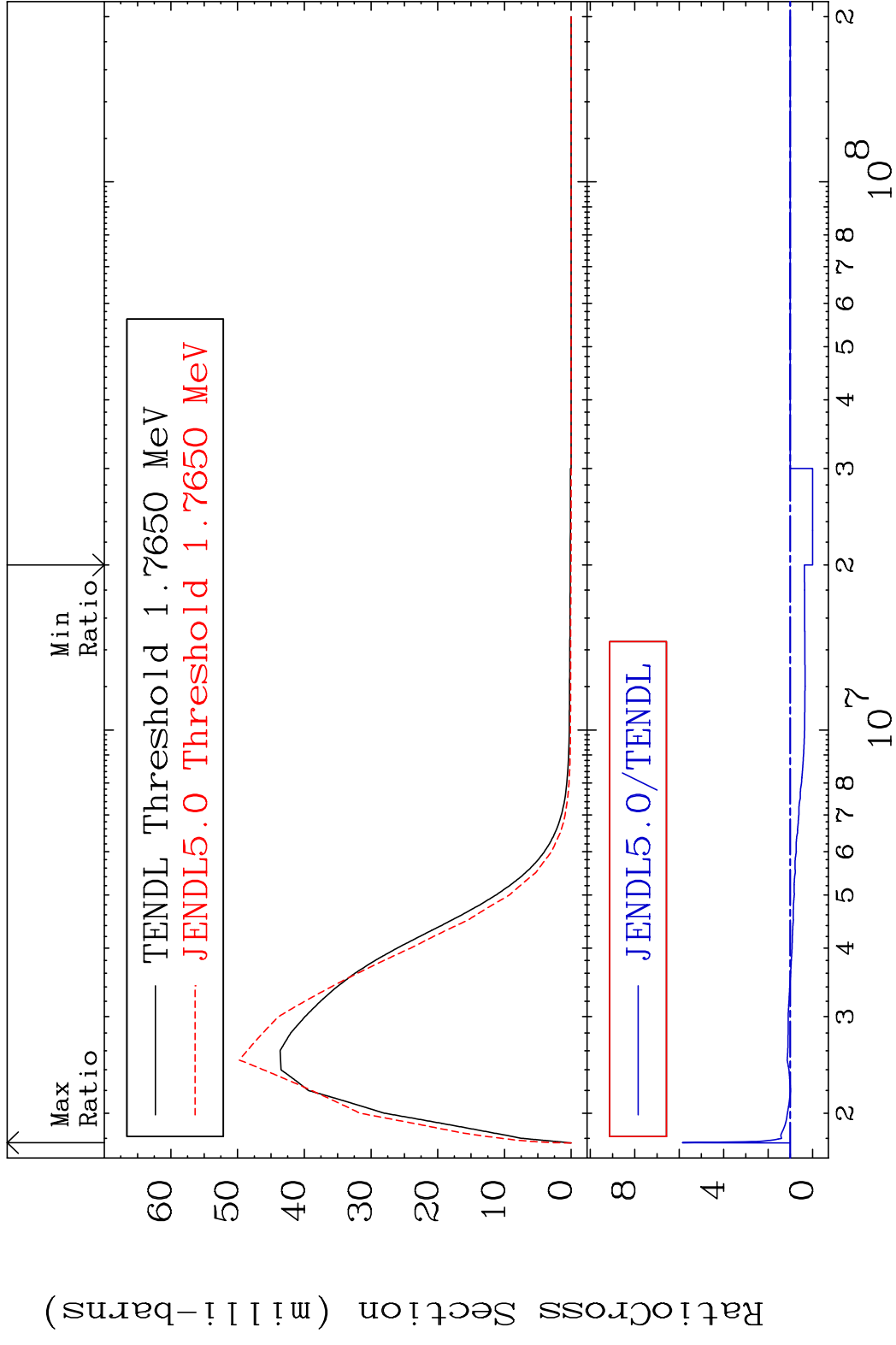


30 Incident Energy (eV) 82-Pb-205

MAT 8228 MT= 71 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 0.000 %

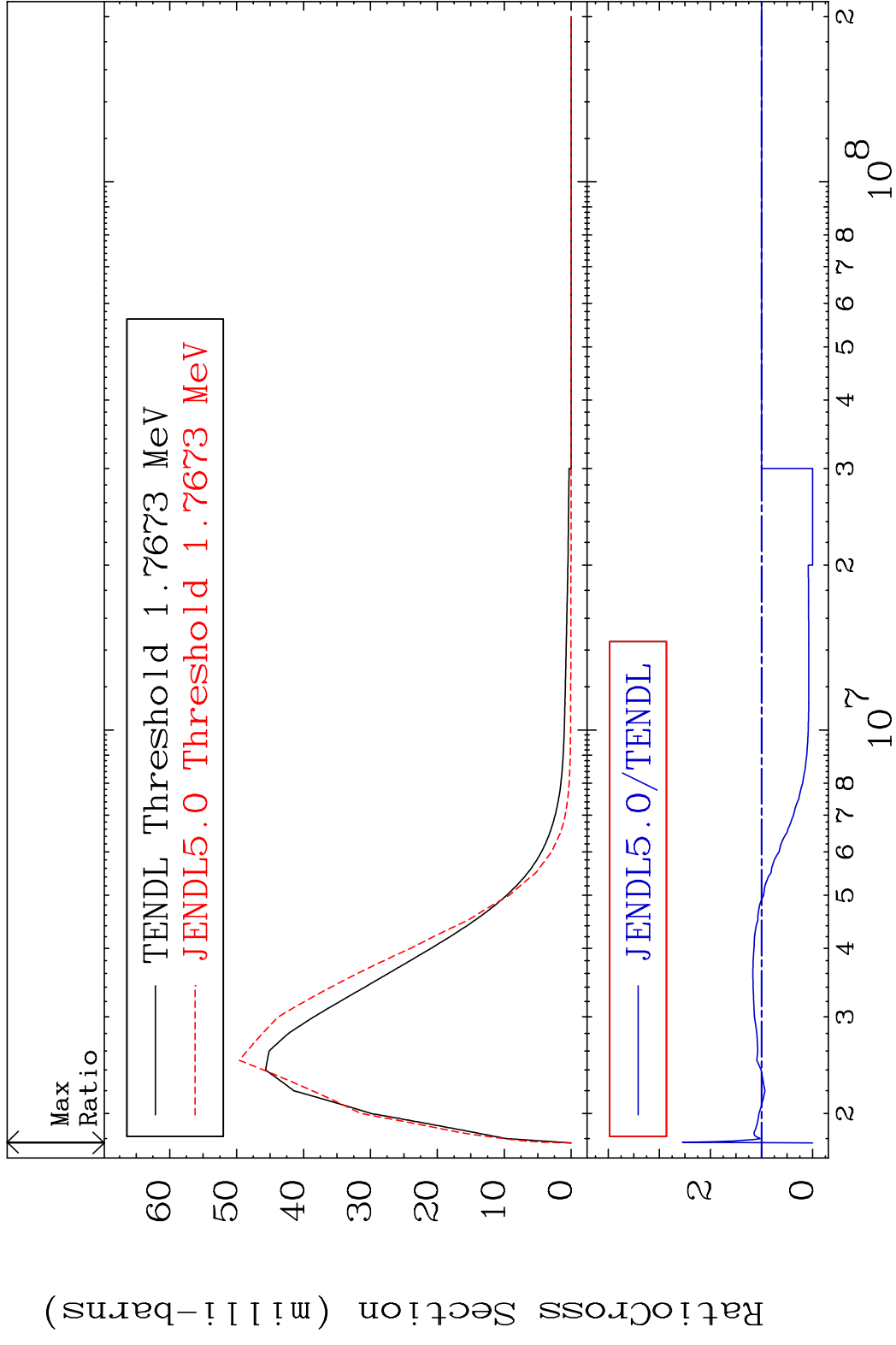


MAT 8228 MT= 72 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 485.8 %

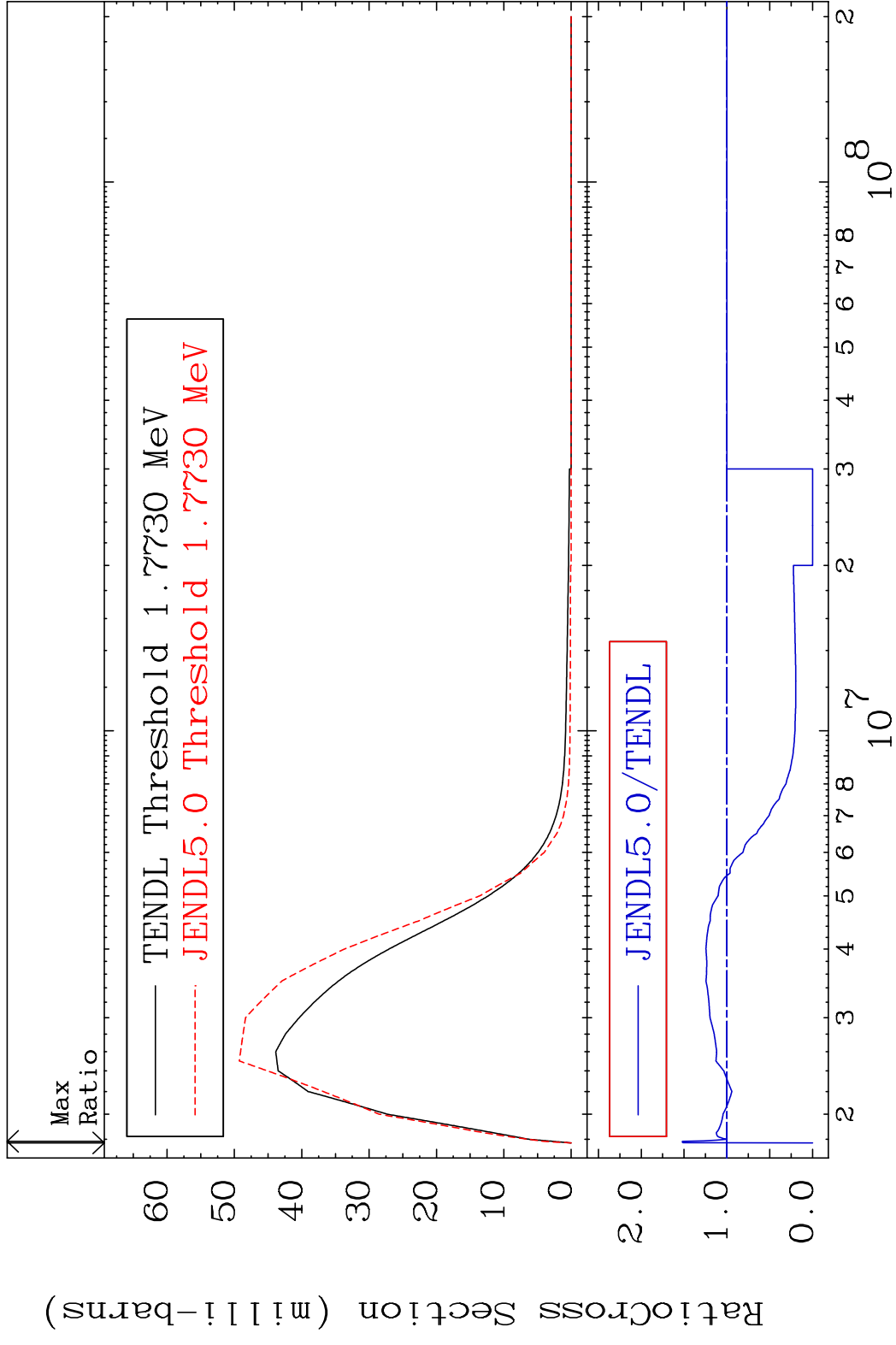


32 Incident Energy (eV) 82-Pb-205

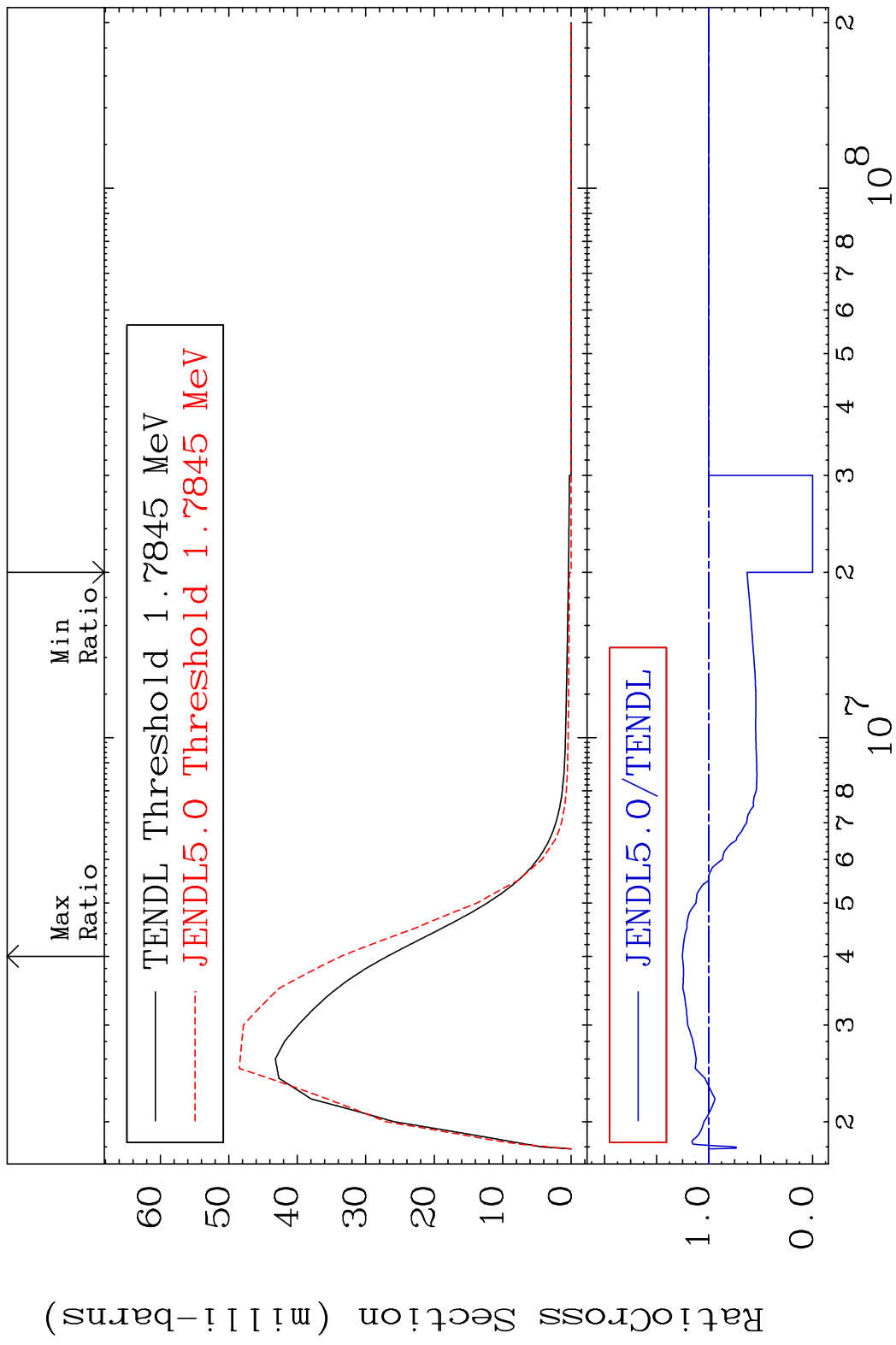
MAT 8228 MT= 73 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 155.0 %



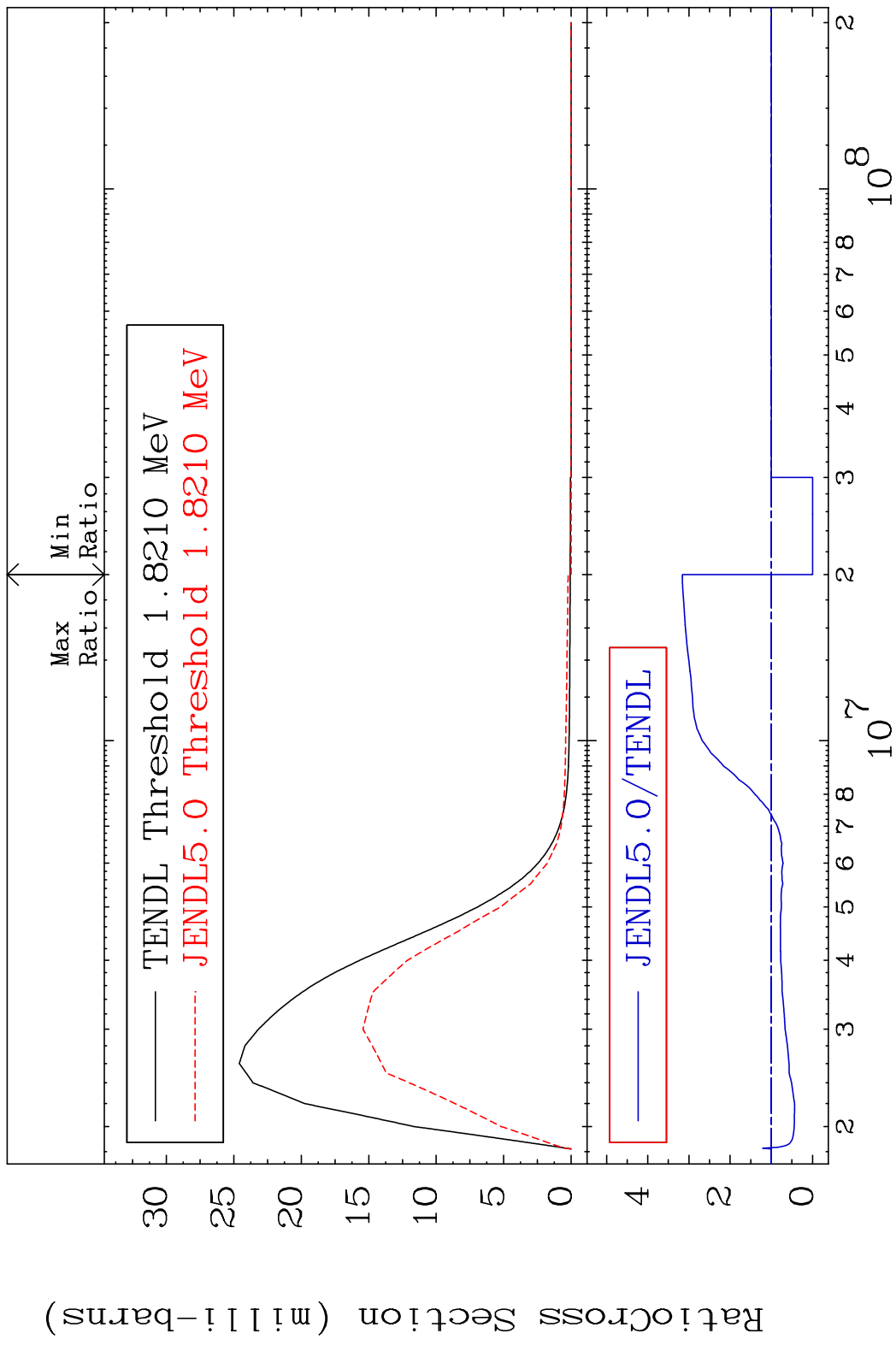
MAT 8228 MT= 74 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 52.01 %



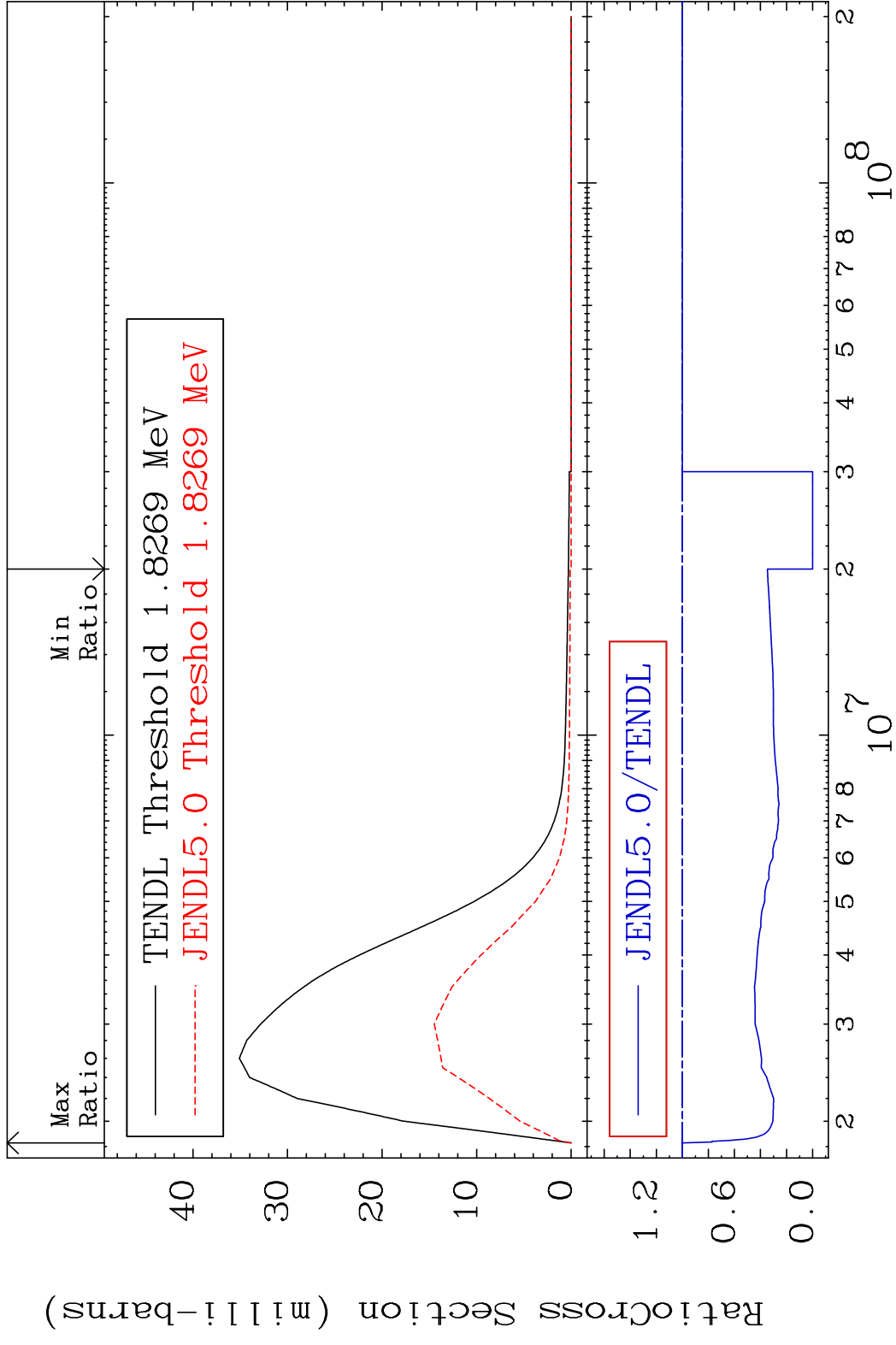
MAT 8228 MT= 75 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 25.20 %



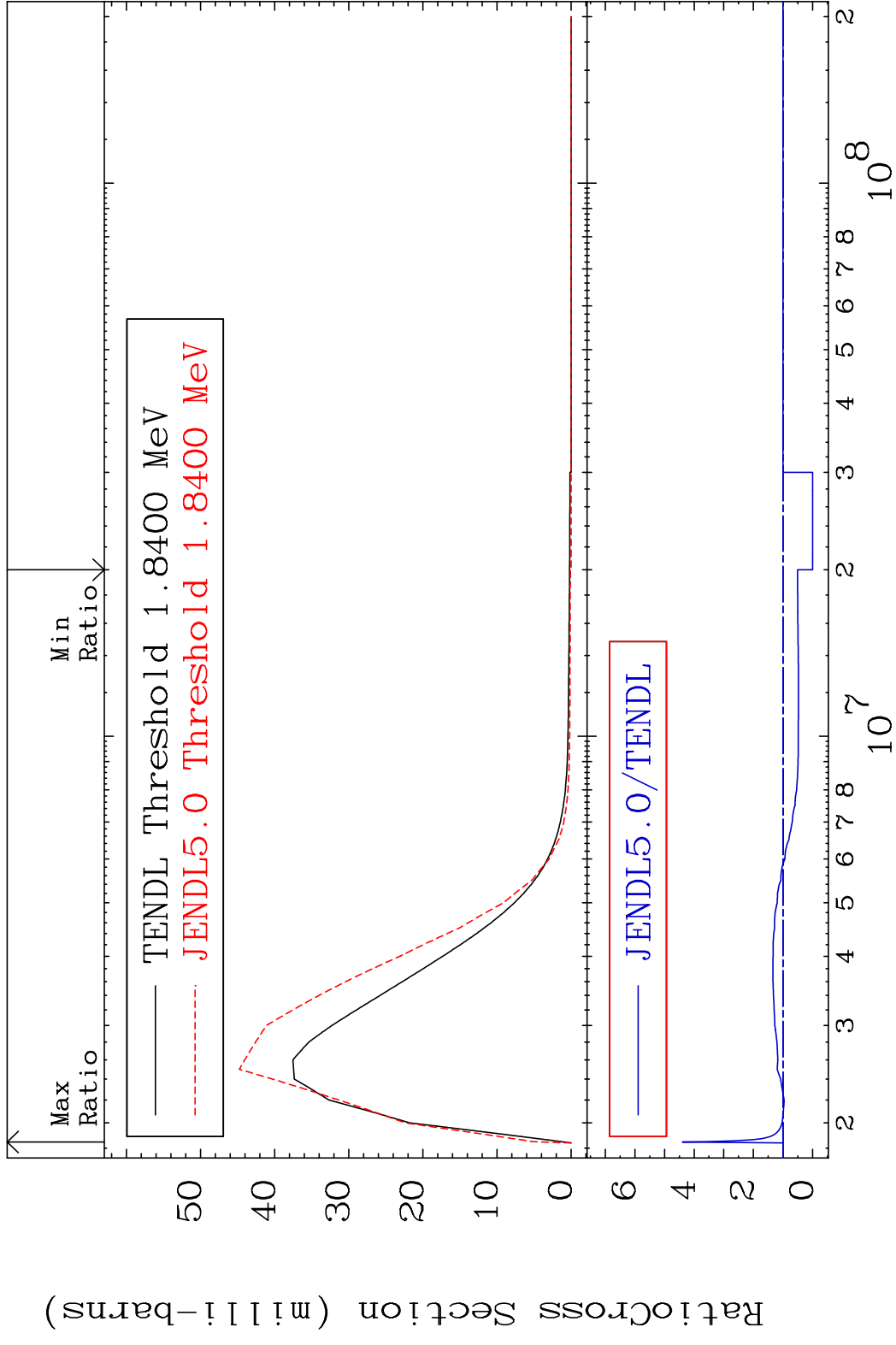
MAT 8228 MT= 76 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 216.0 %



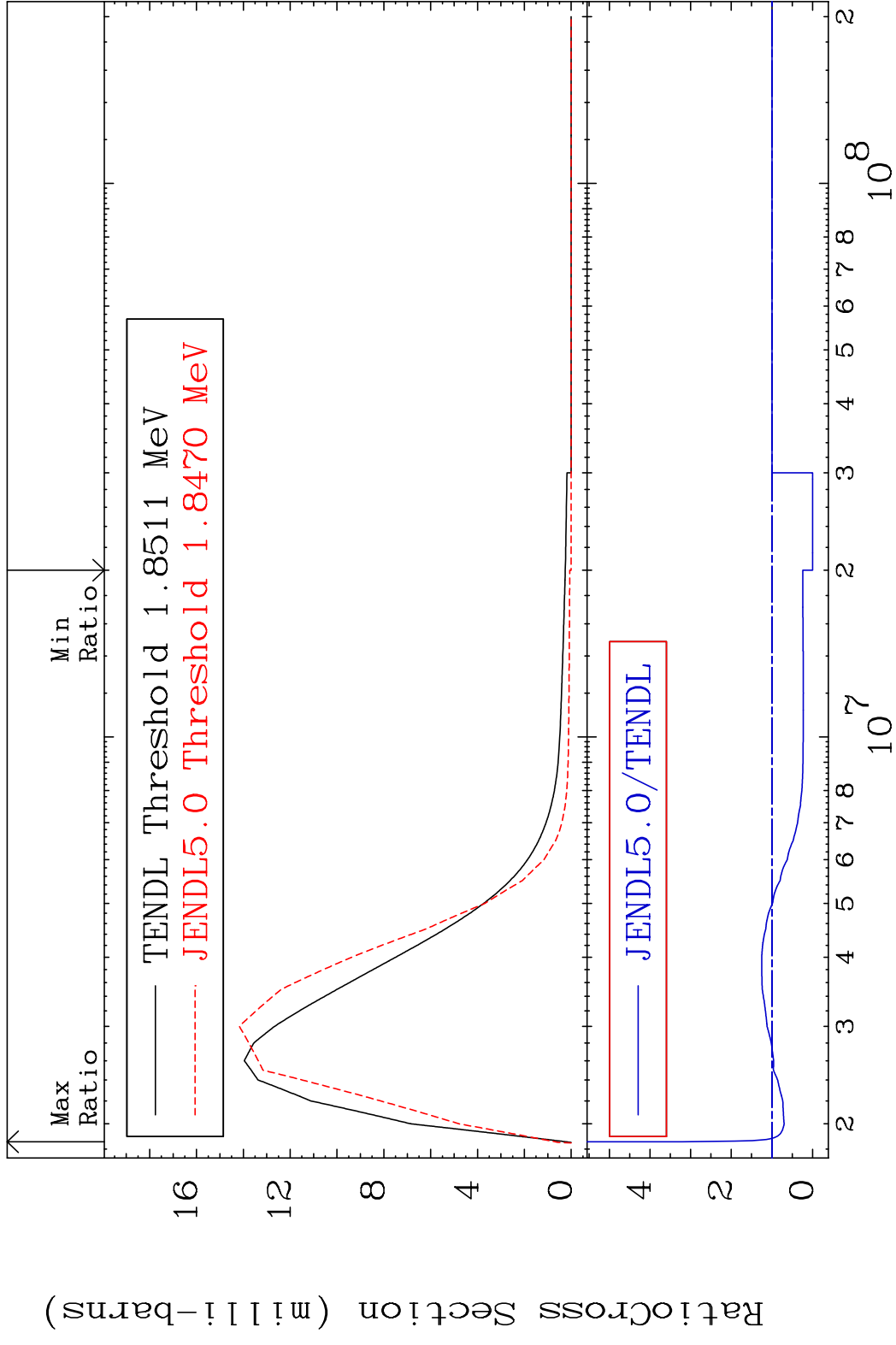
MAT 8228 MT= 77 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 0.000 %



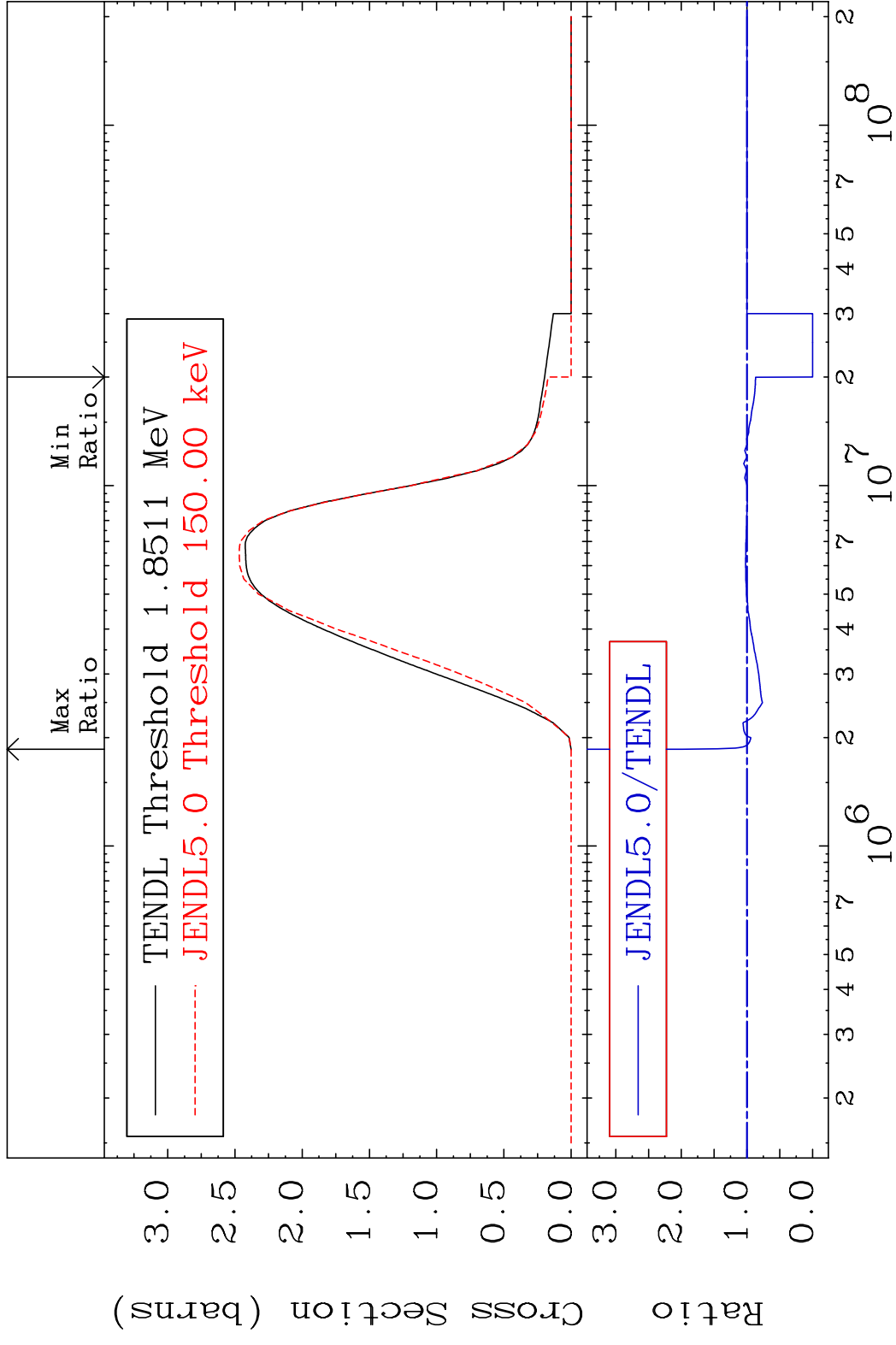
MAT 8228 MT= 78 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 339.9 %



MAT 8228 MT= 79 (n, n') Level 82-Pb-205  
 Cross Section -100.0 To 220.4 %



MAT 8228 (n, n') Continuum 82-Pb-205  
 Cross Section -100.0 To 98.45 %

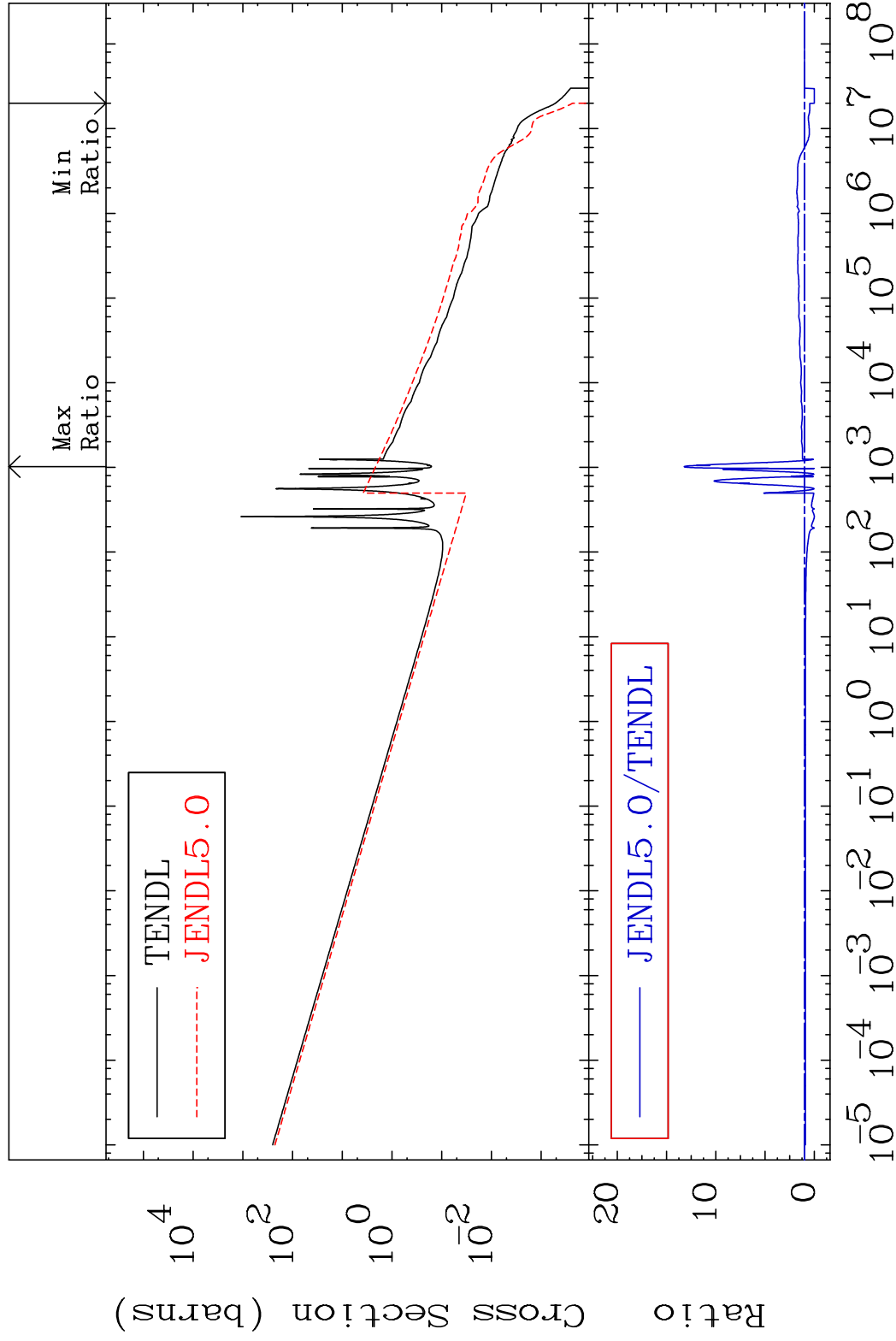


MAT 8228

(n,  $\gamma$ )

82-Pb-205

Cross Section -100.0 To 1221. %

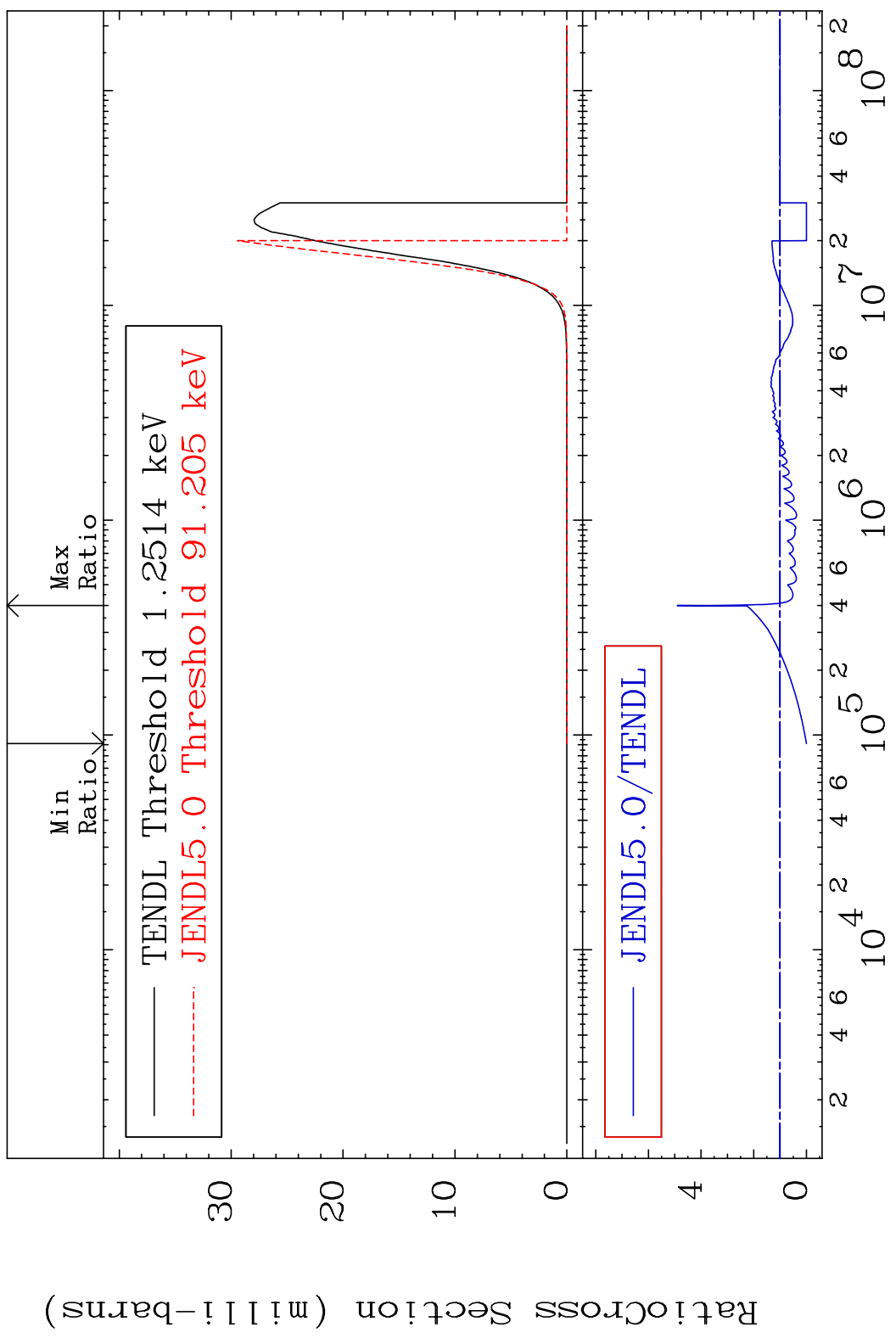


MAT 8228

(n, p)

82-Pb-205

Cross Section -100.0 To 390.6 %



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82-Pb-205

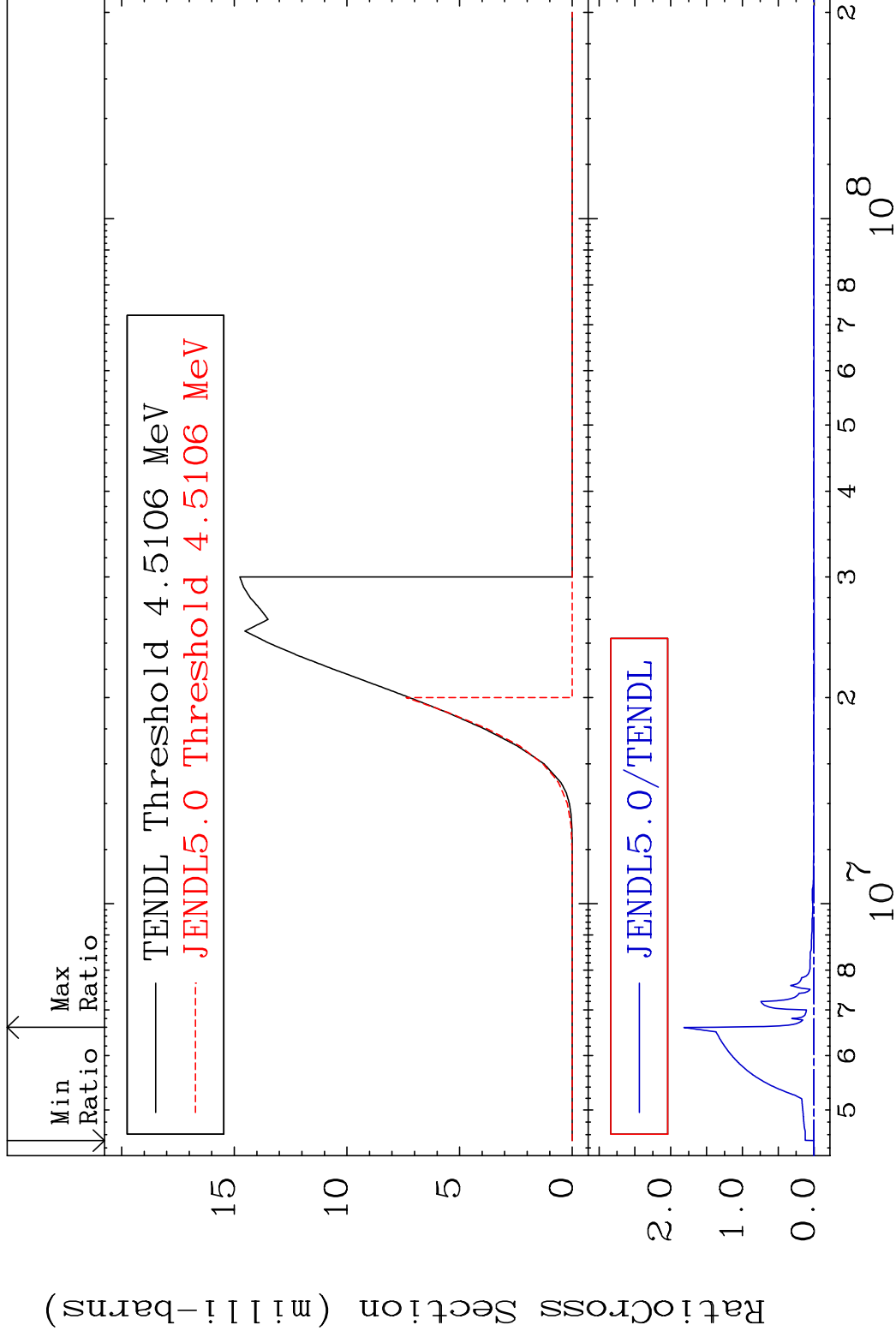
82-Pb-205

MAT 8228

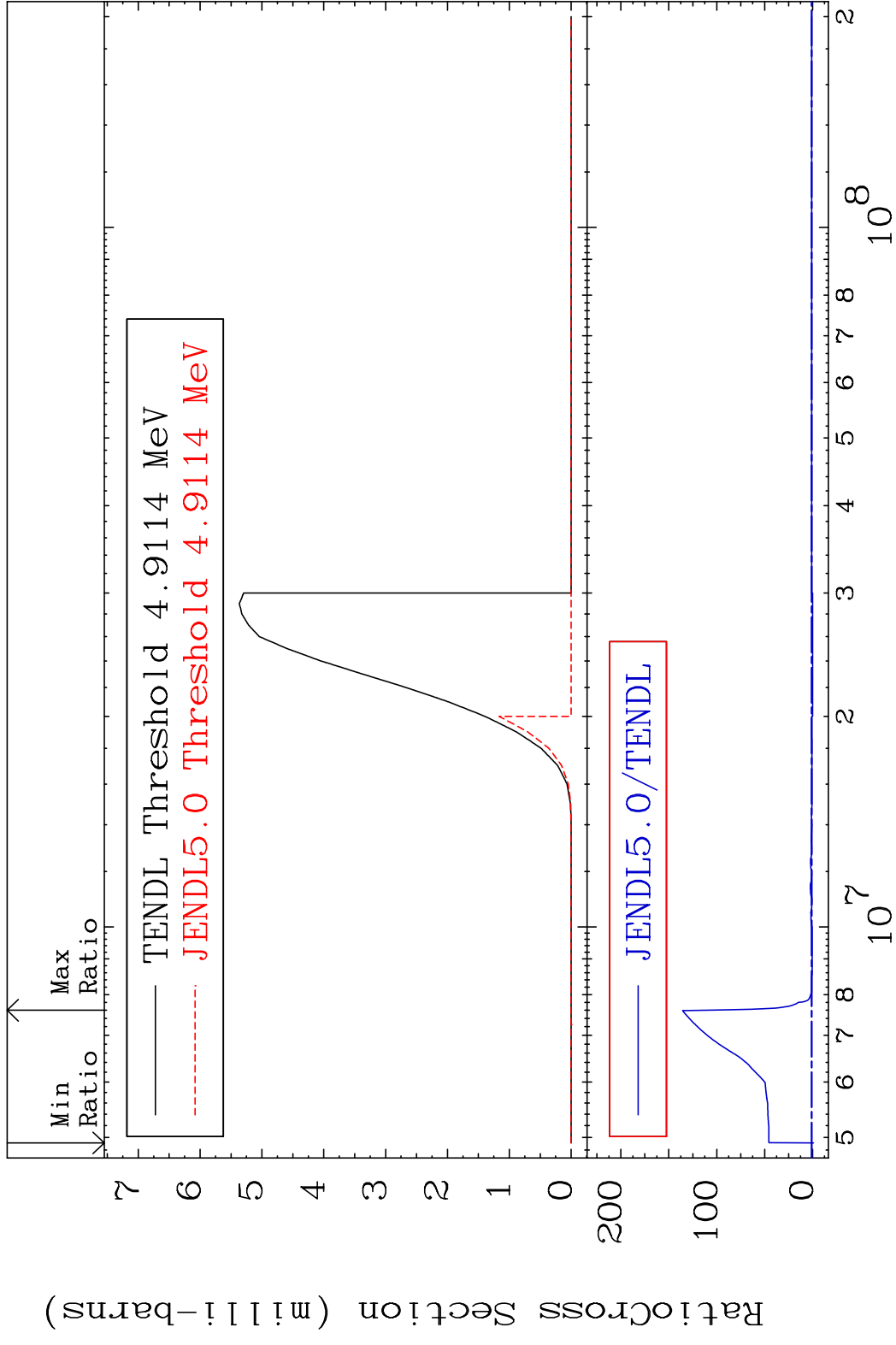
(n,d)

82-Pb-205

Cross Section -100.0 To 9999. %



MAT 8228 (n, t) 82-Pb-205  
 Cross Section -100.0 To 9999. %

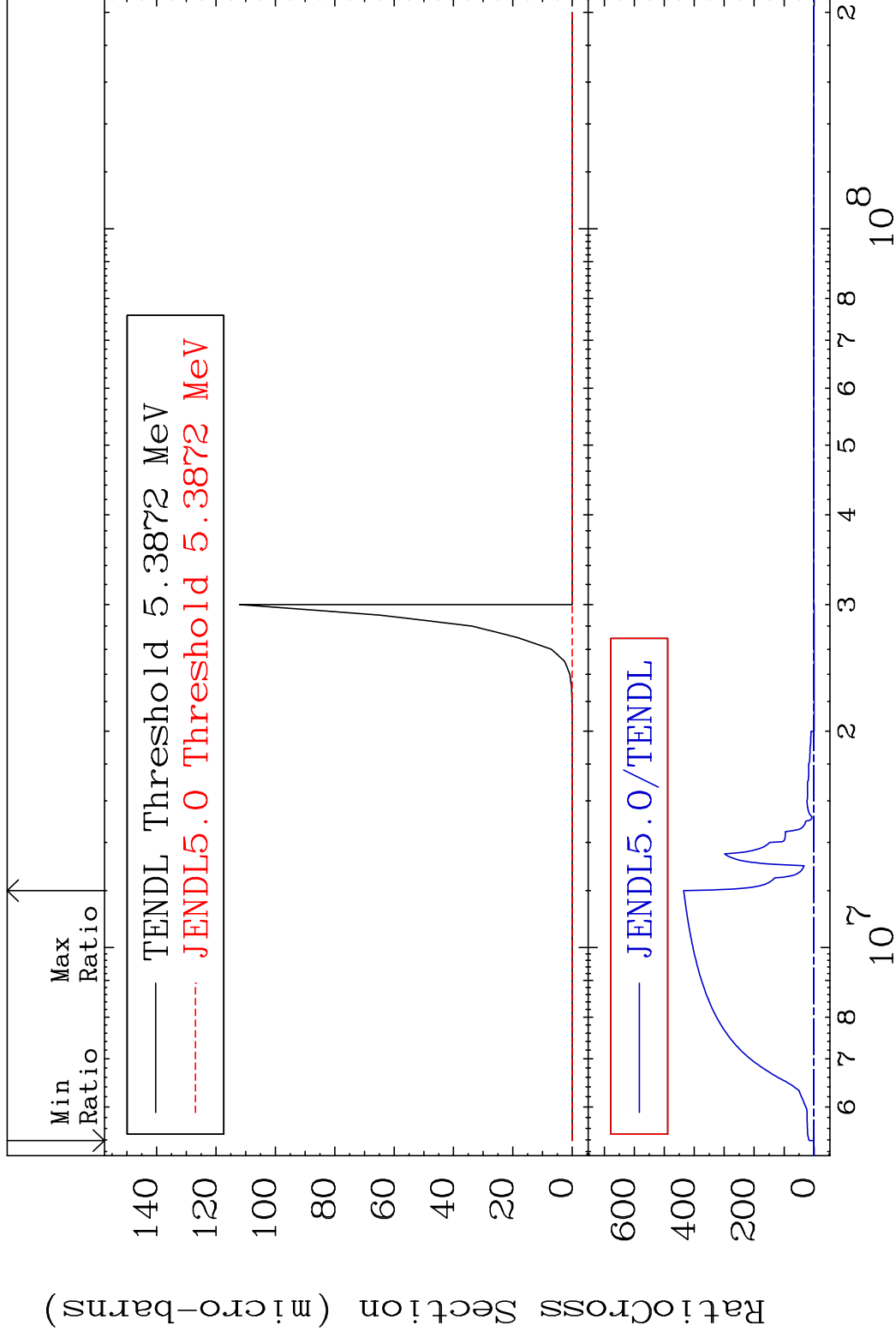


MAT 8228

(n, He-3)

82-Pb-205

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

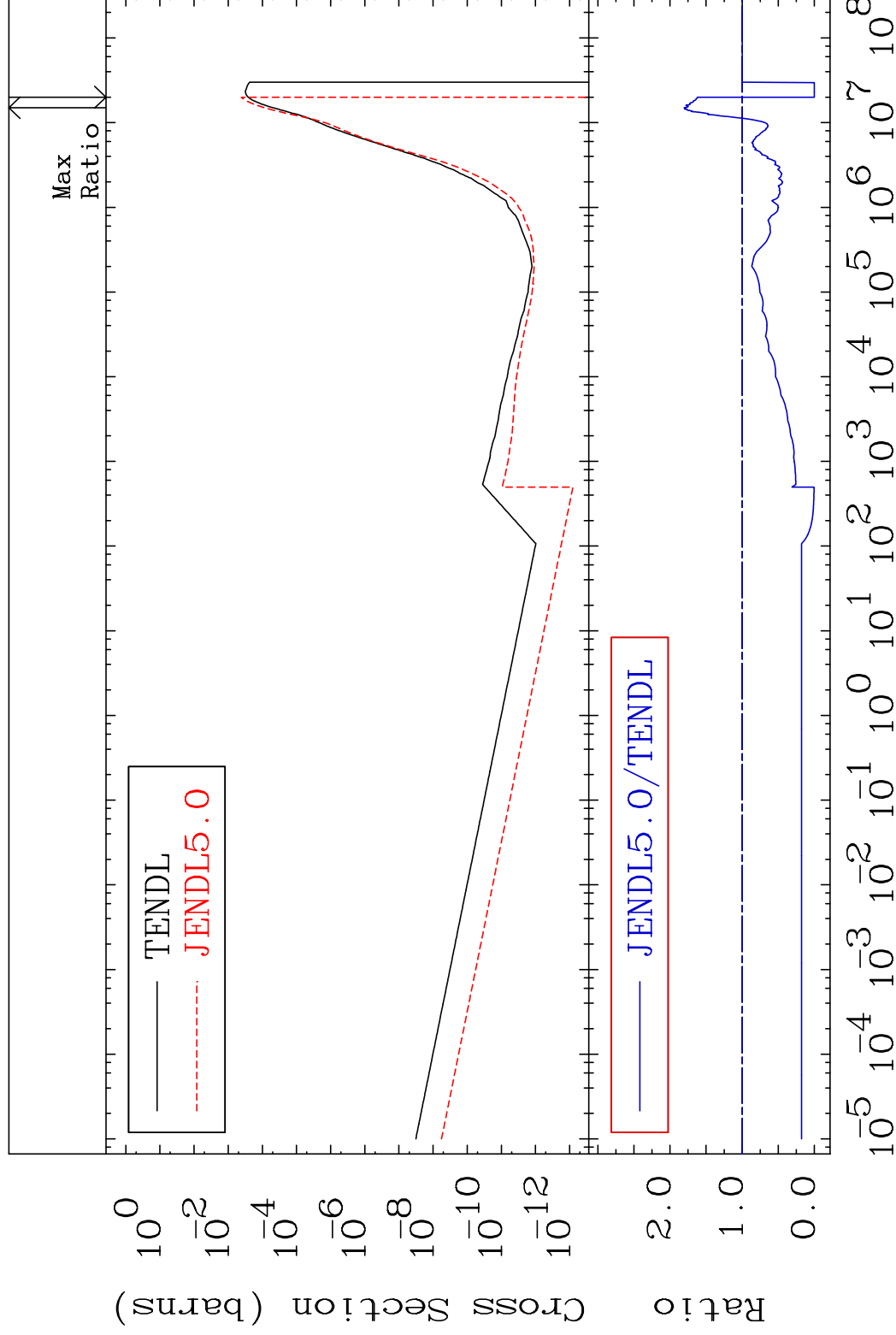
82-Pb-205

MAT 8228

(n,  $\alpha$ )

82-Pb-205

Cross Section -100.0 To 80.55 %



46

Incident Energy (eV)

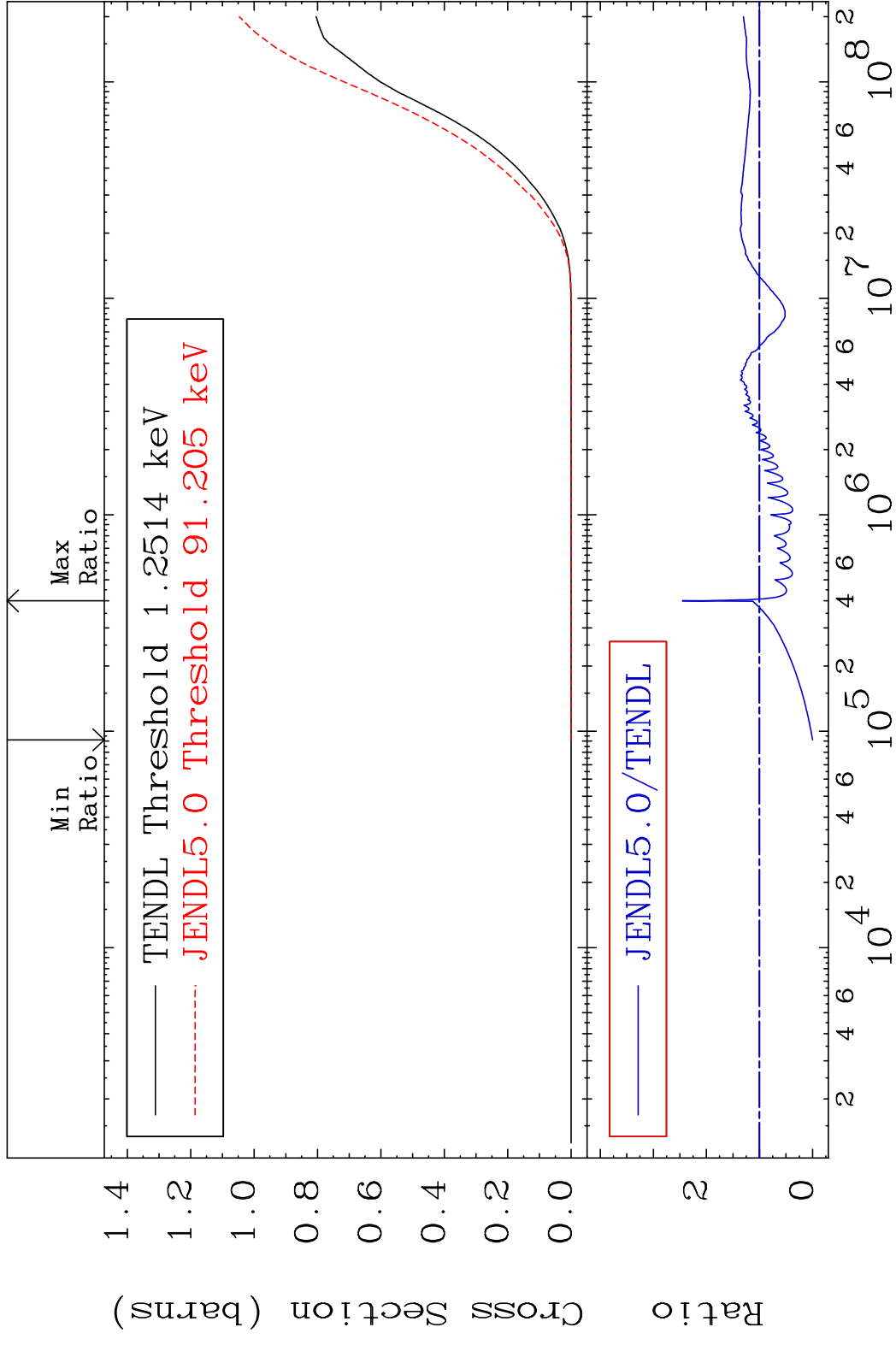
82-Pb-205

MAT 8228

Hydrogen Production

82-Pb-205

Cross Section -100.0 To 145.3 %

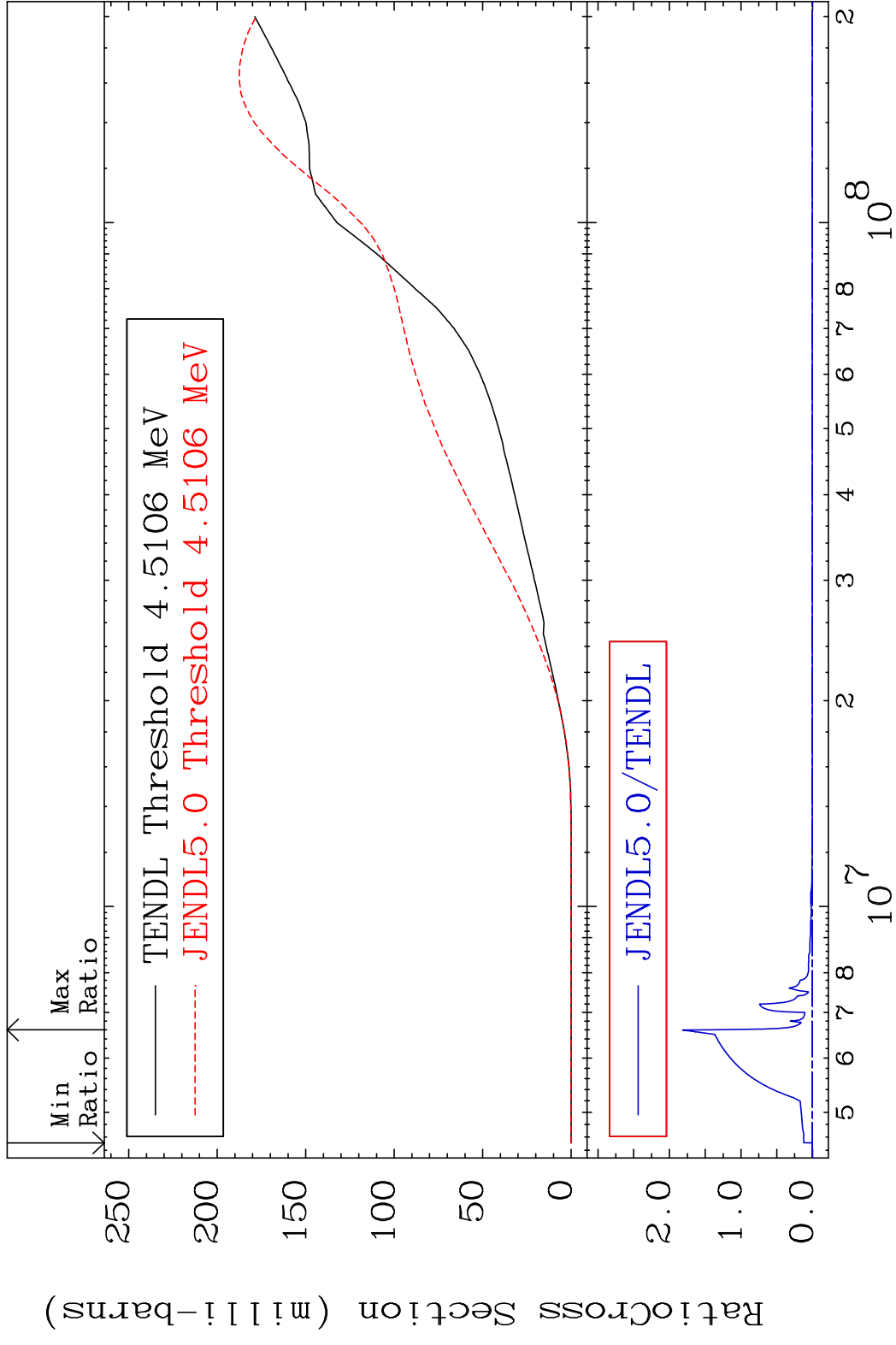


MAT 8228

Deuterium Production

82-Pb-205

Cross Section -100.0 To 9999. %

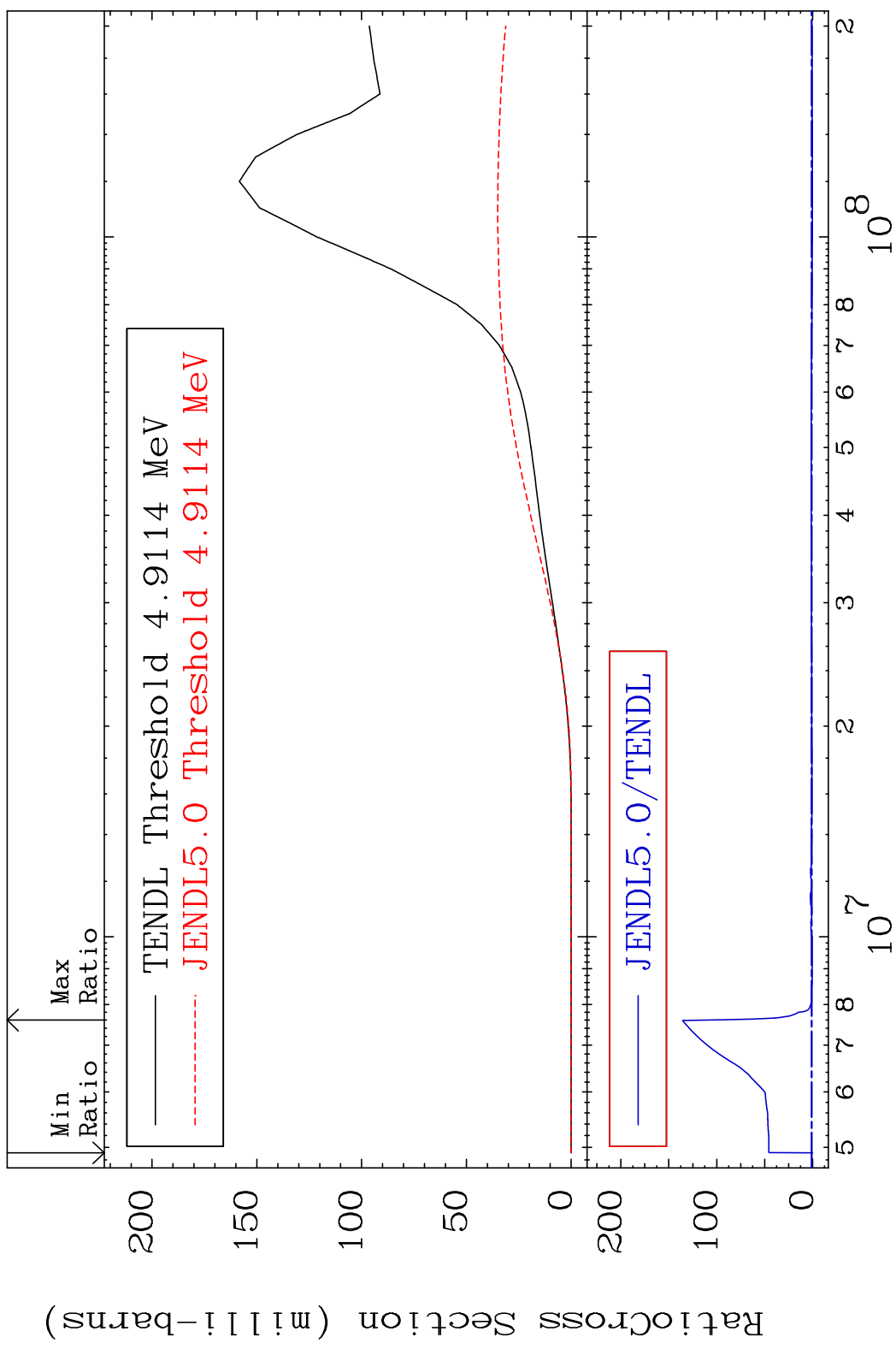


MAT 8228

Tritium Production

82-Pb-205

Cross Section -100.0 To 9999. %

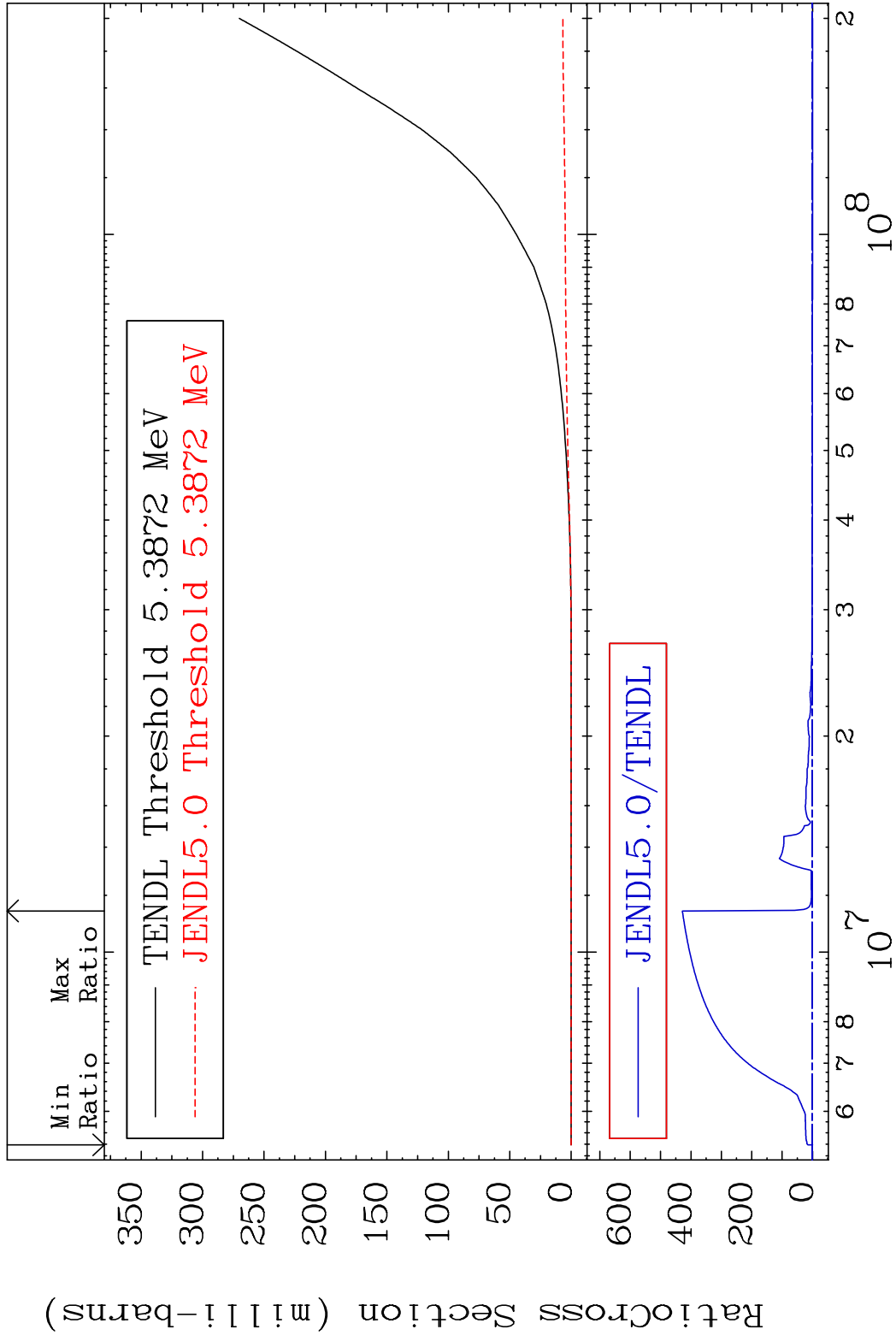


MAT 8228

He-3 Production

82-Pb-205

Cross Section -100.0 To 9999. %



50

Incident Energy (eV)

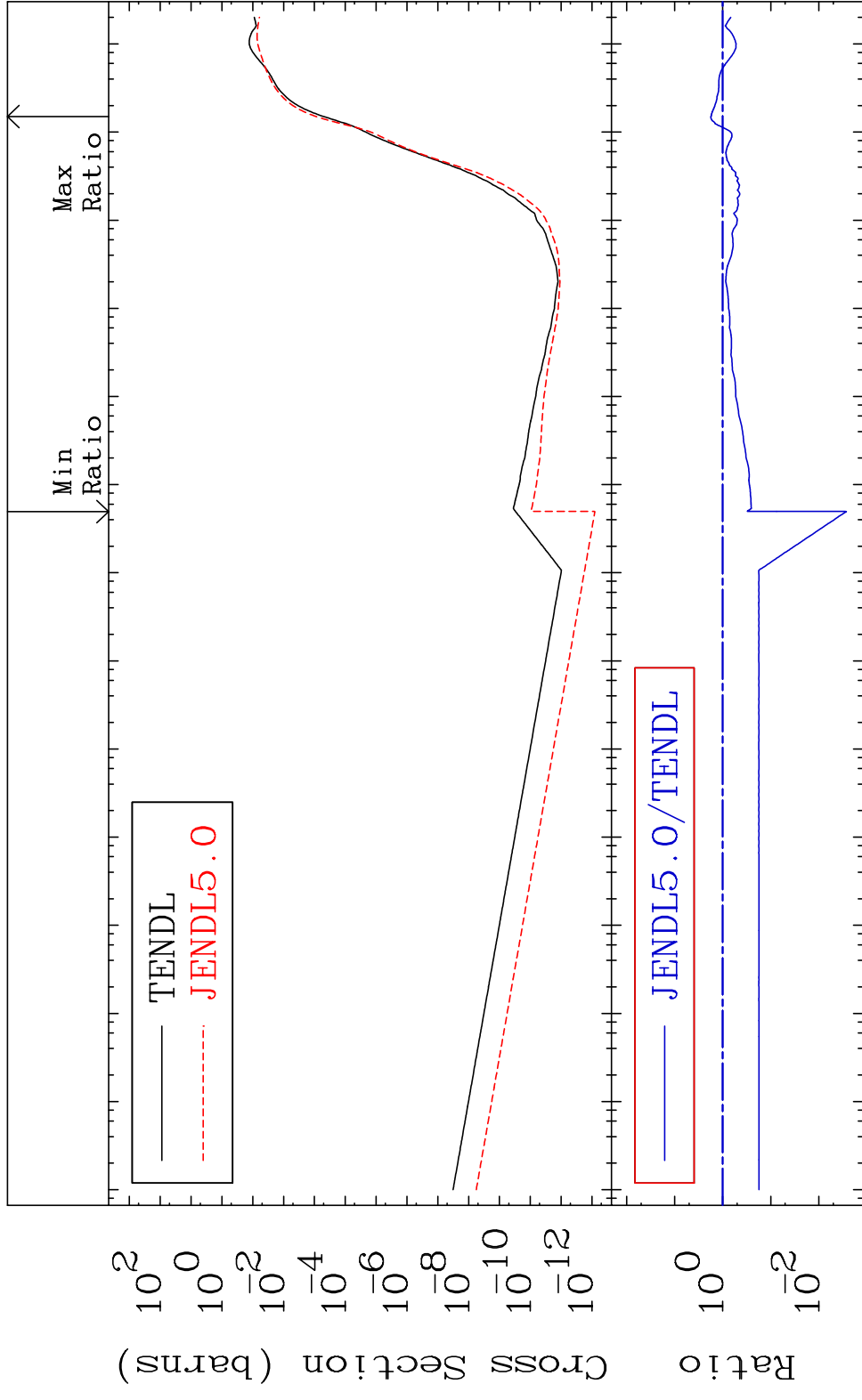
82-Pb-205

MAT 8228

He-4 Production

82-Pb-205

Cross Section -99.73 To 77.77 %

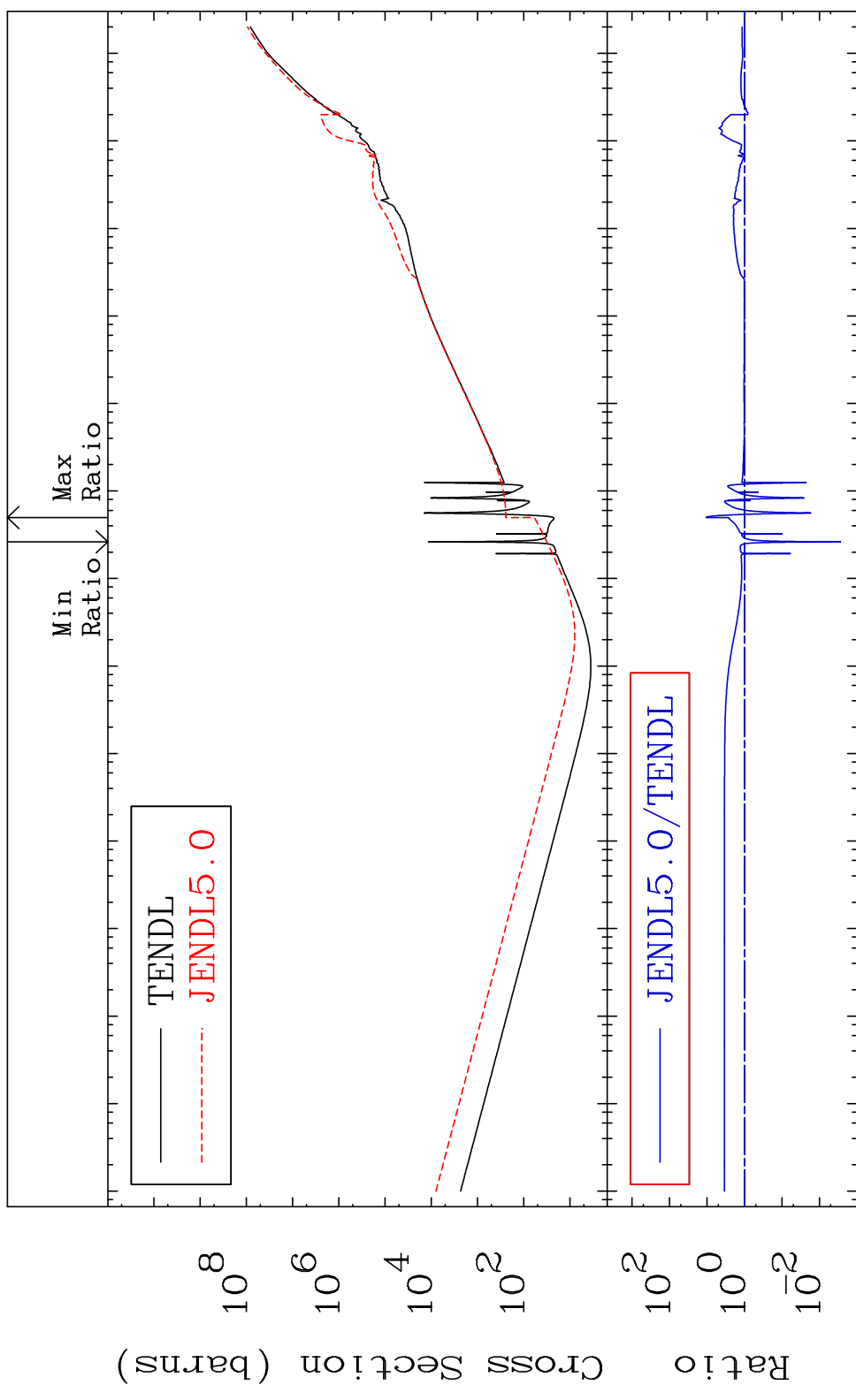


MAT 8228

Kerma total (eV-barns)

82-Pb-205

Cross Section -99.73 To 973.3 %



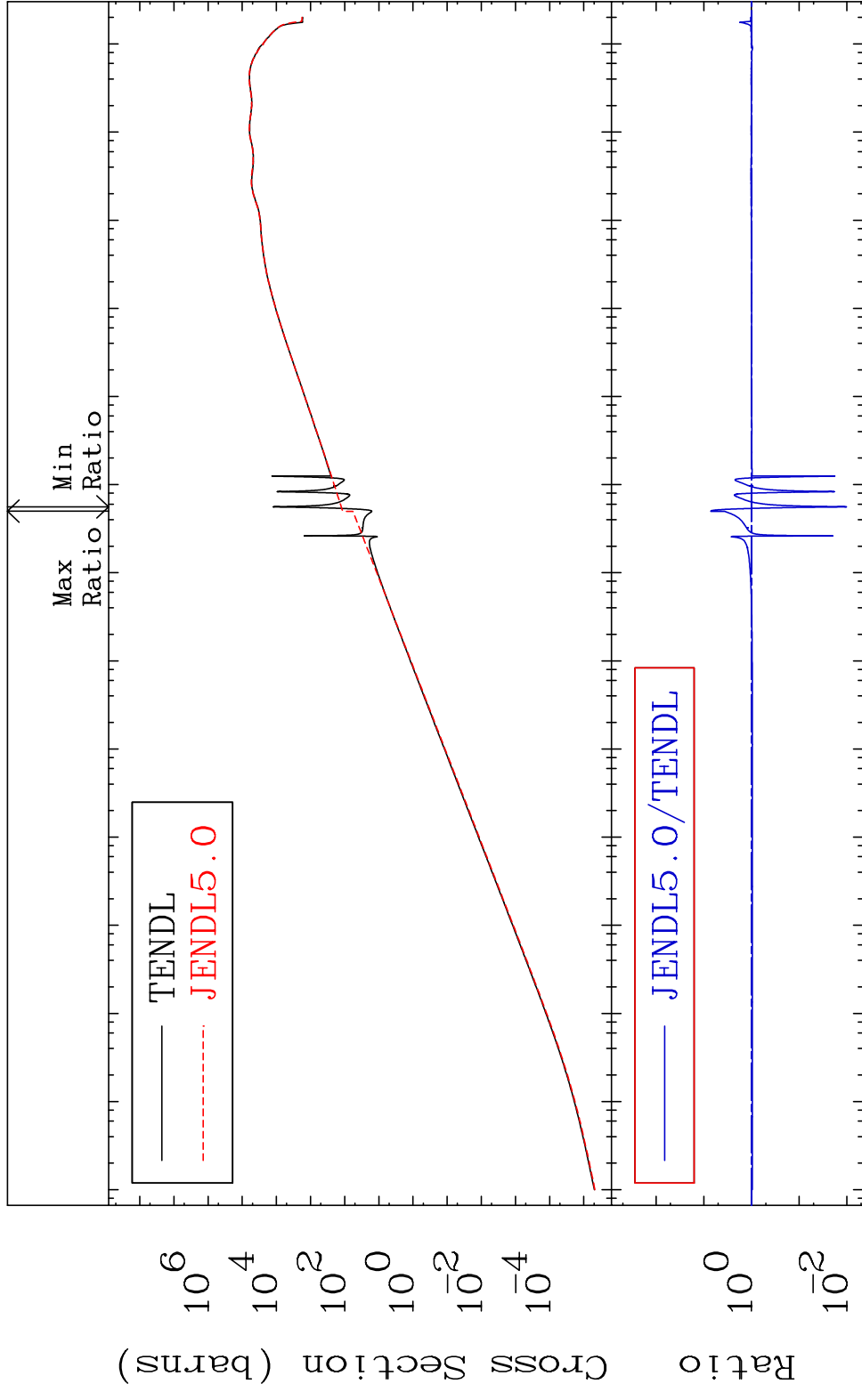
MAT 8228

Kerma elastic

82-Pb-205

Cross Section

-98.97 To 616.3 %



Cross Section (barns)

Ratio

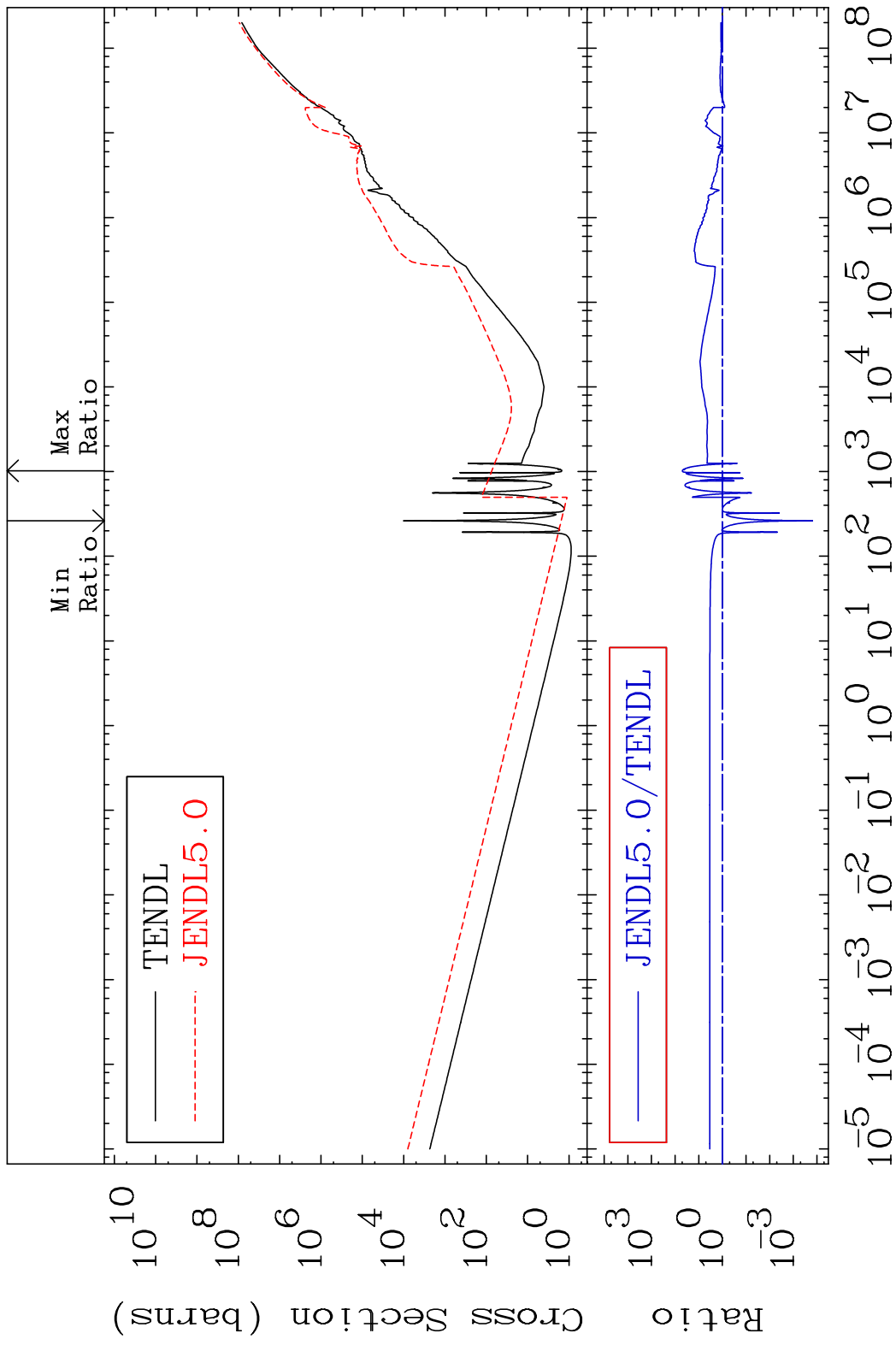
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

53

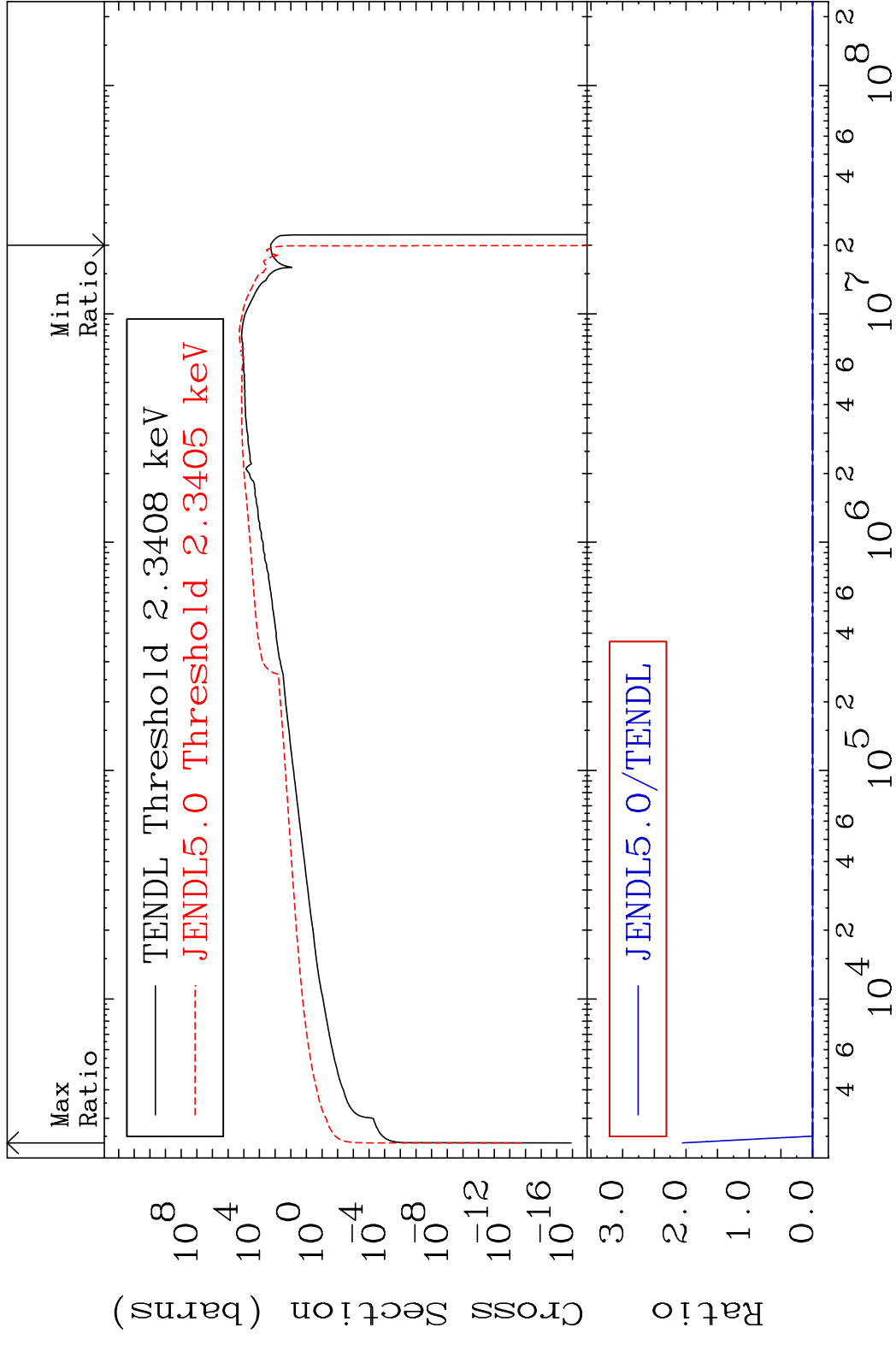
Incident Energy (eV)

82-Pb-205

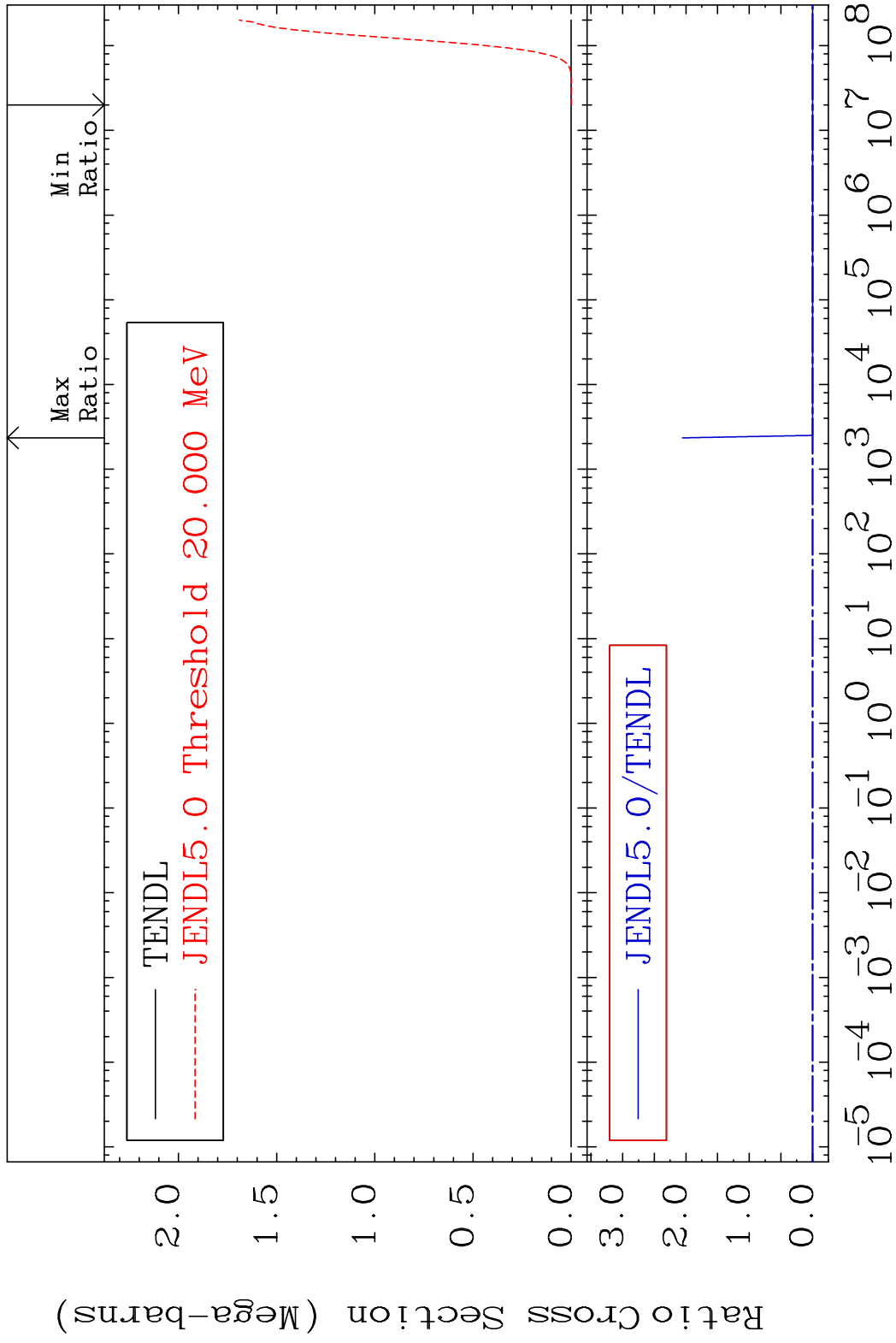
MAT 8228 Kerma non-elastic (all but mt2) 82-Pb-205  
 Cross Section -99.98 To 4825. %



MAT 8228 Kerma inelastic (mt51-91) 82-Pb-205  
 Cross Section -125.9 To 9999. %

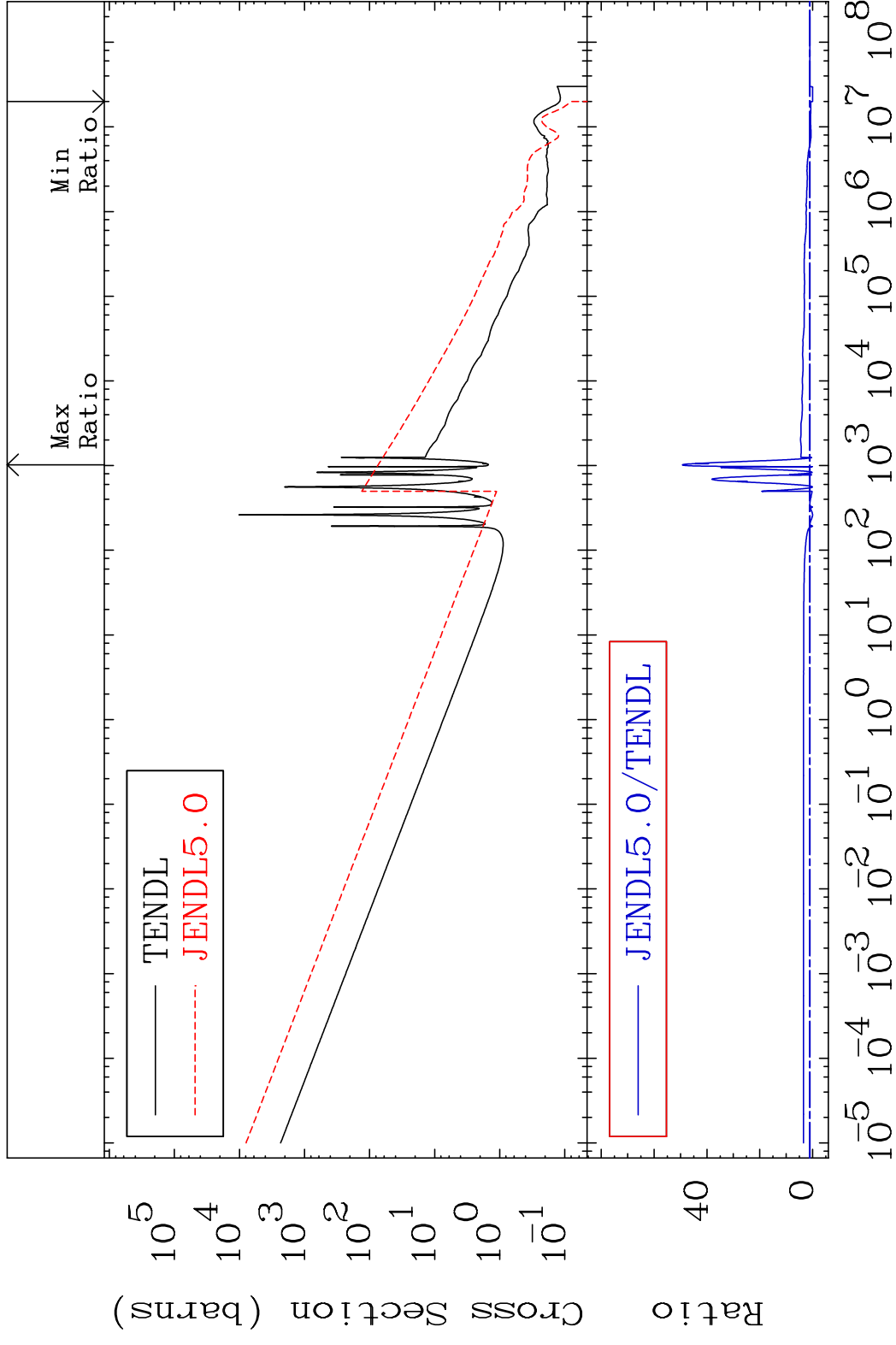


MAT 8228 Kerma fission (mt18 or mt19-20-21-38) 82-Pb-205  
 Cross Section -125.9 To 9999. %



MAT 8228

Kerma capture (mt102) 82-Pb-205  
Cross Section -100.0 To 4831. %

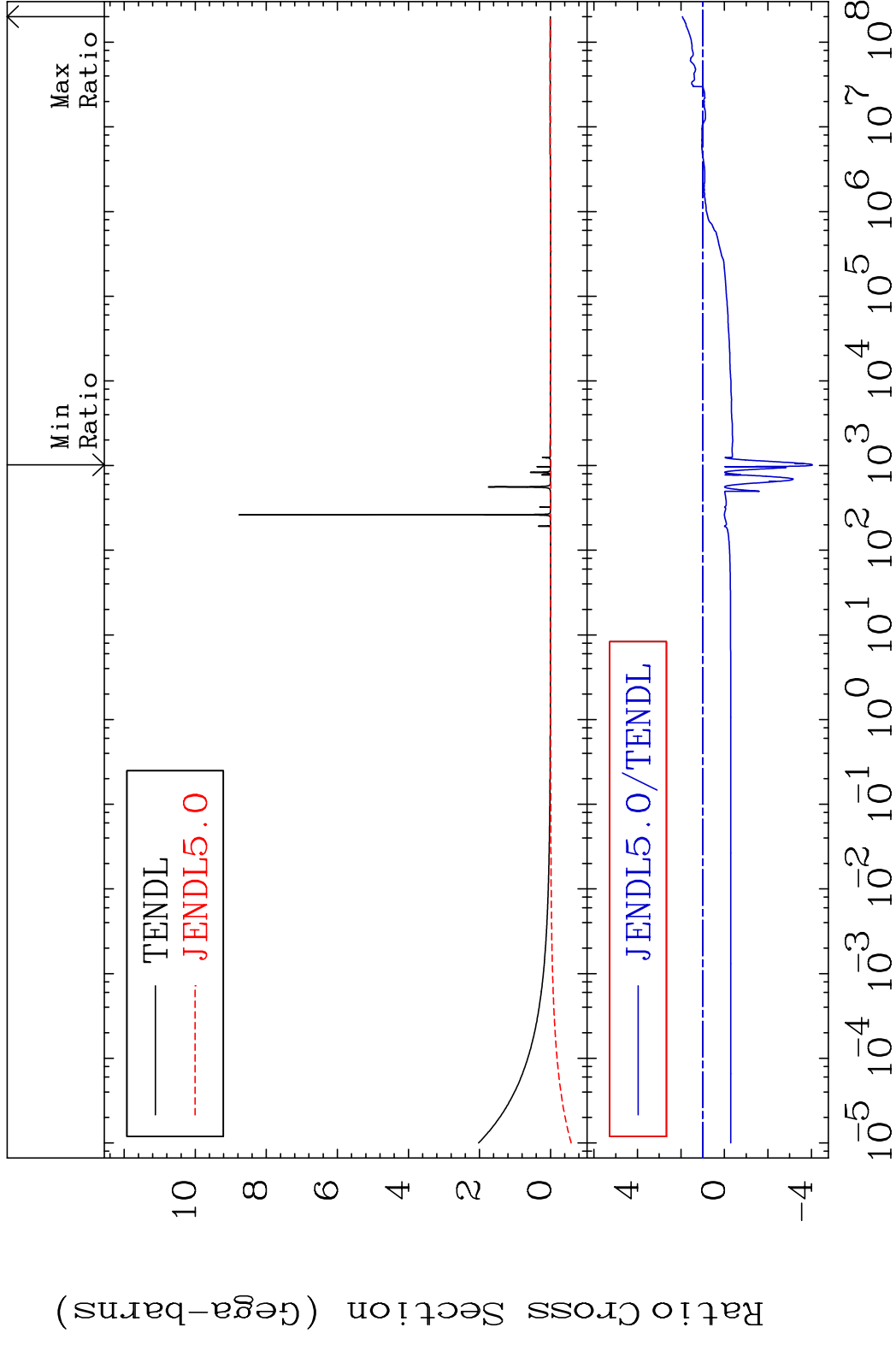


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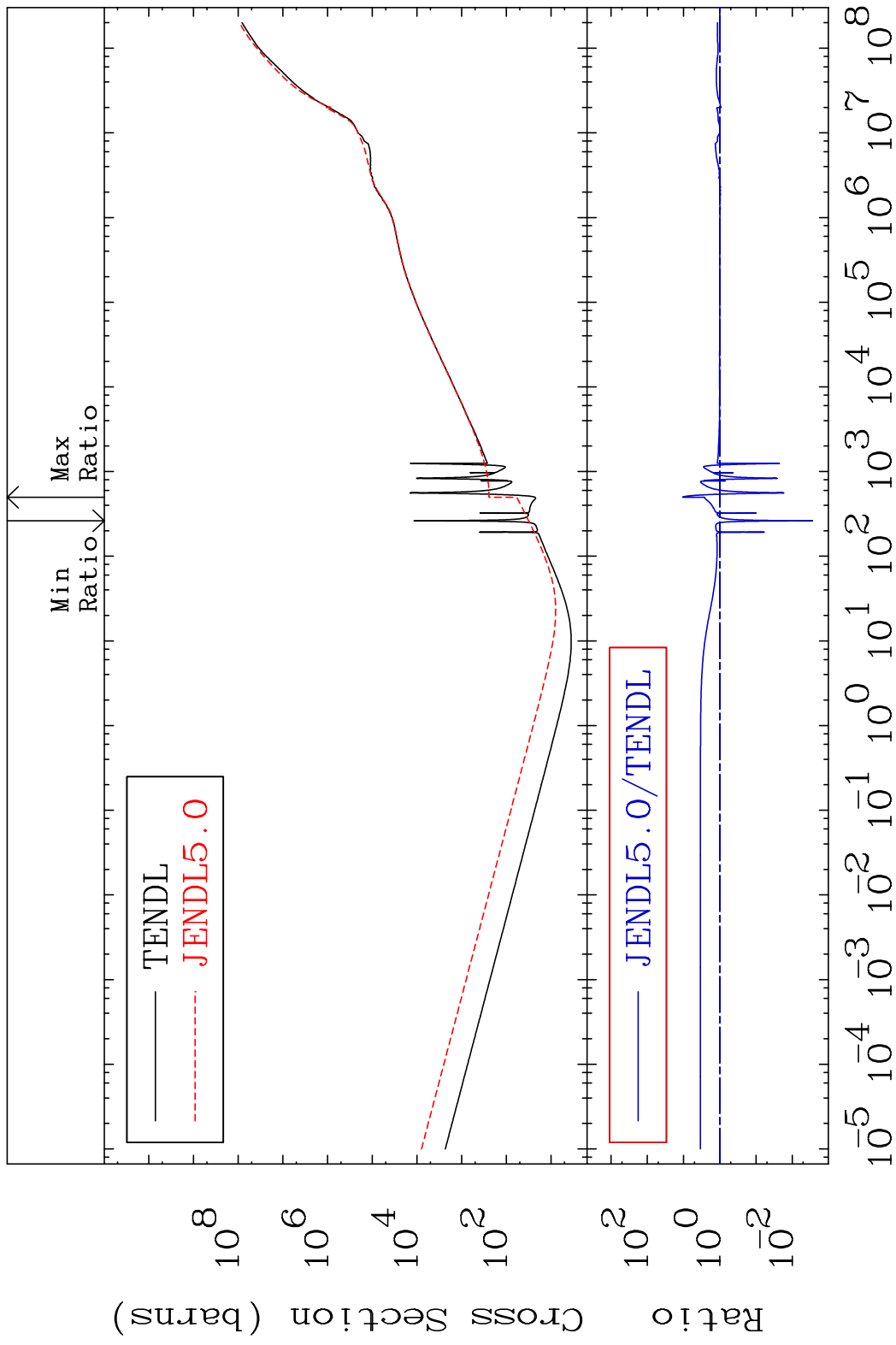
Incident Energy (eV)

82-Pb-205

MAT 8228 Total photon (eV-barns) 82-Pb-205  
Cross Section -505.3 To 93.51 %



MAT 8228 Total kinematic kerma (high limit) 82-Pb-205  
 Cross Section -99.73 To 973.3 %

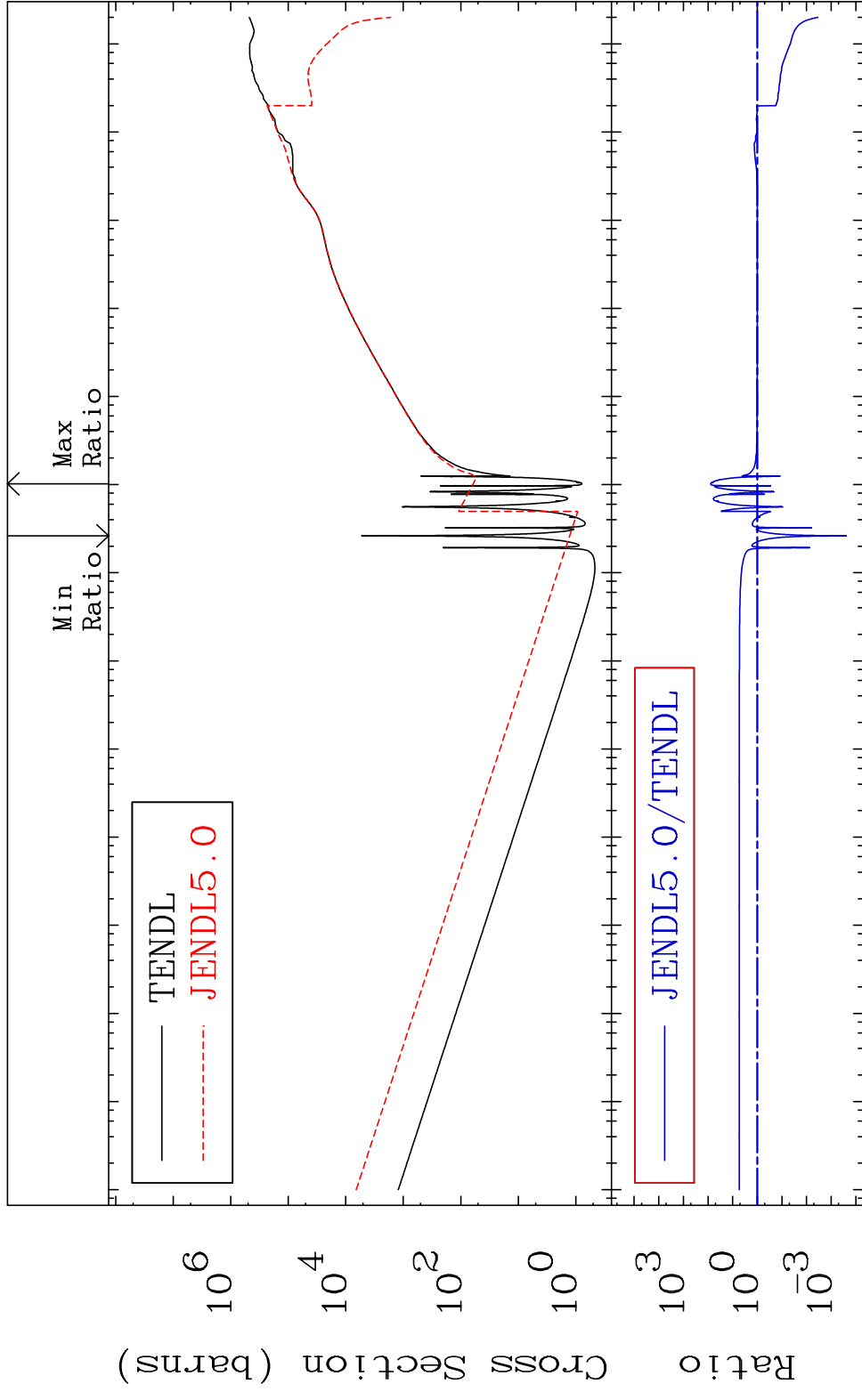


MAT 8228

Dpa total (eV-barns)

82-Pb-205

Cross Section -99.98 To 7679. %



60

Incident Energy (eV)

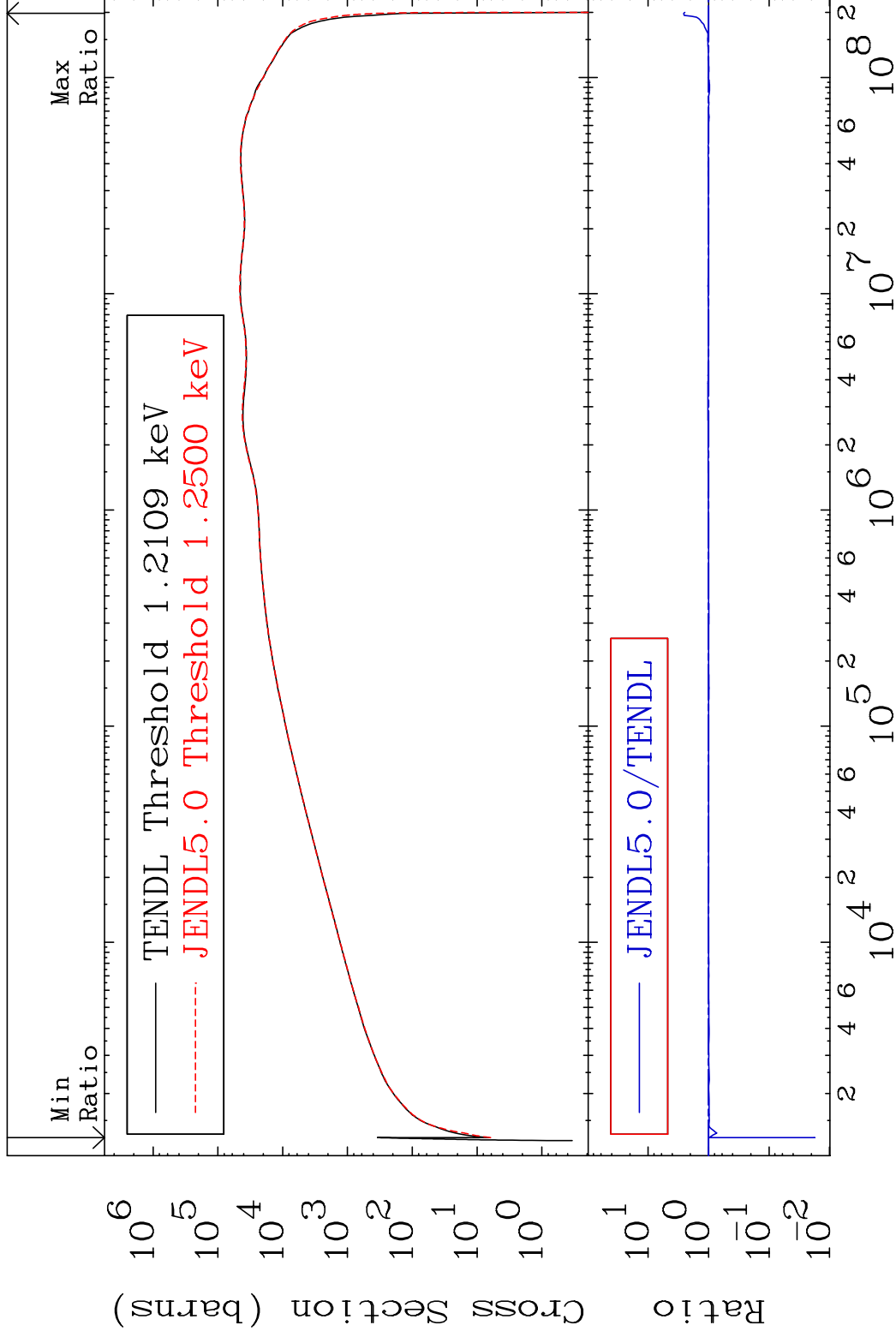
82-Pb-205

MAT 8228

Dpa elastic (mt2)

82-Pb-205

Cross Section -98.20 To 158.2 %

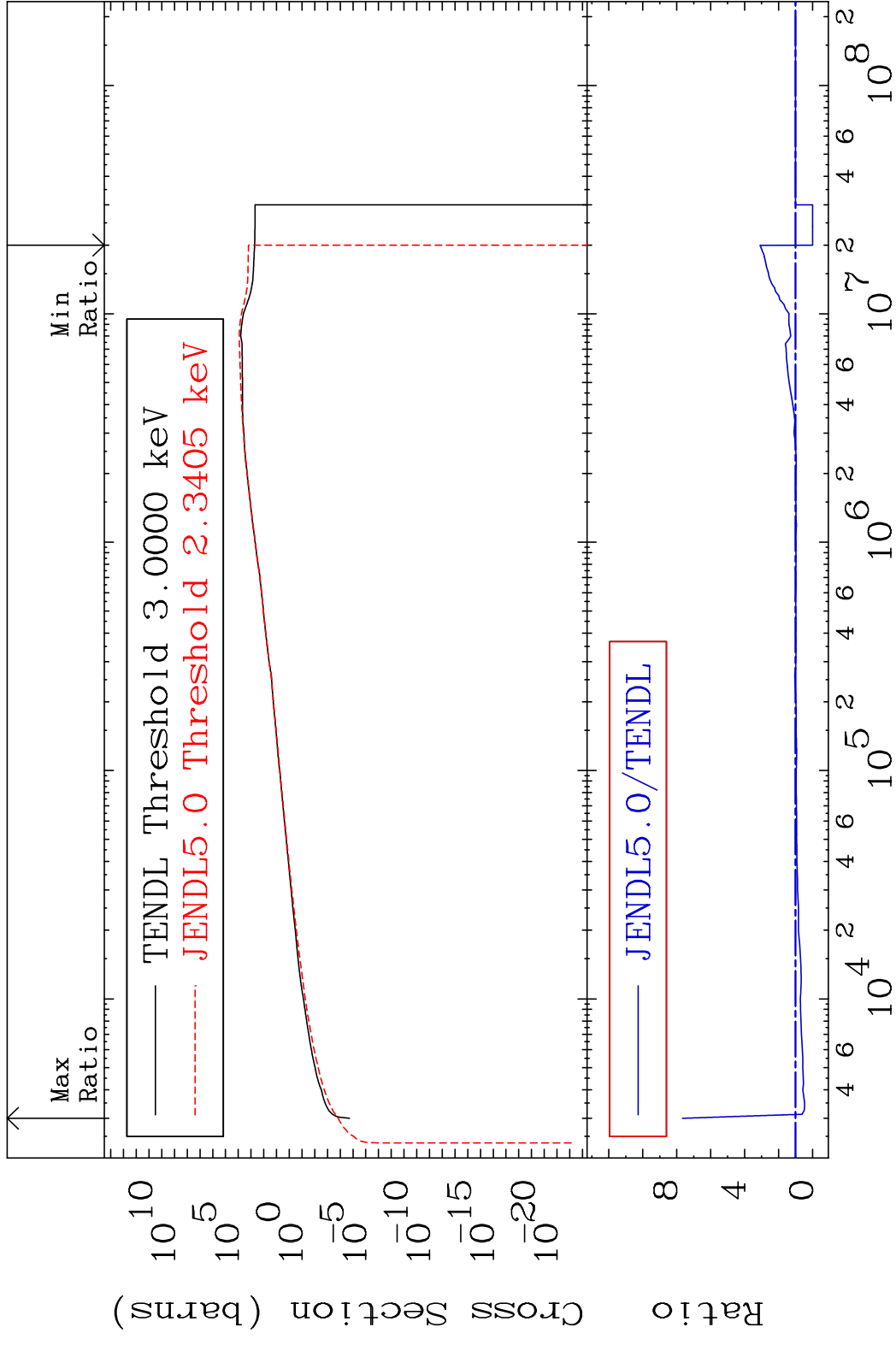


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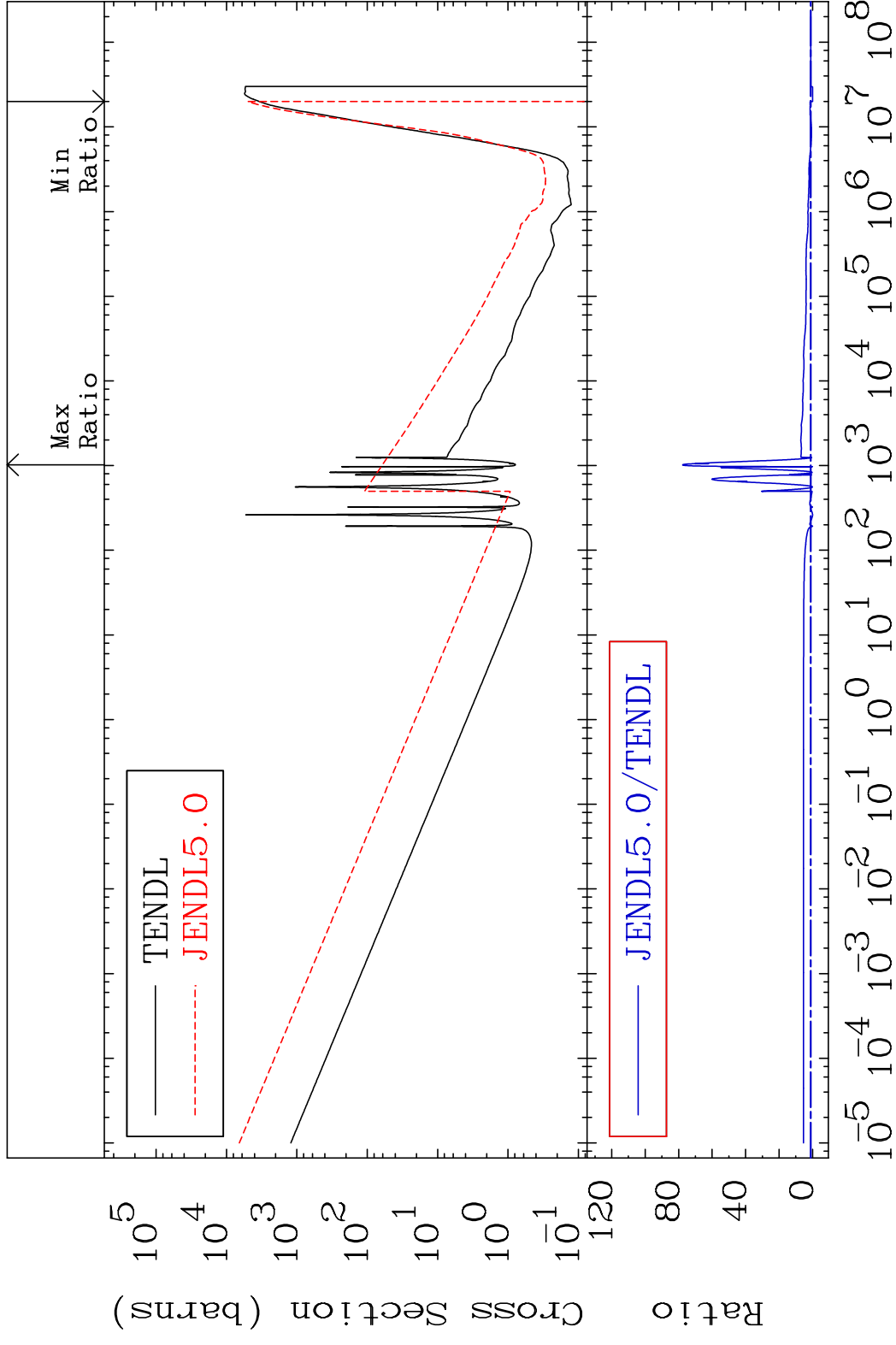
Incident Energy (eV)

82-Pb-205

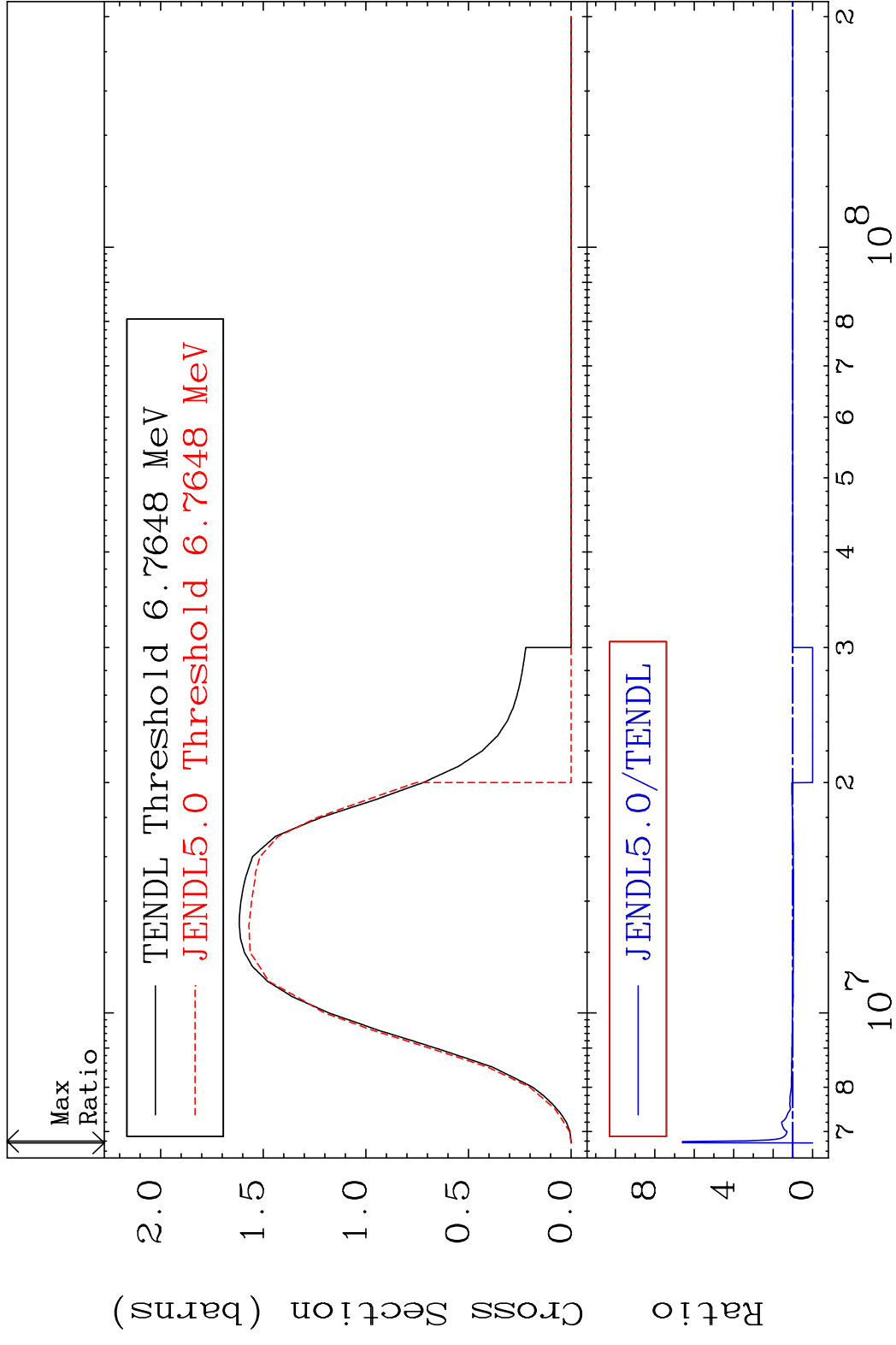
MAT 8228      Dpa inelastic (mt51-91)      82-Pb-205  
 Cross Section      -100.0 To 666.7 %



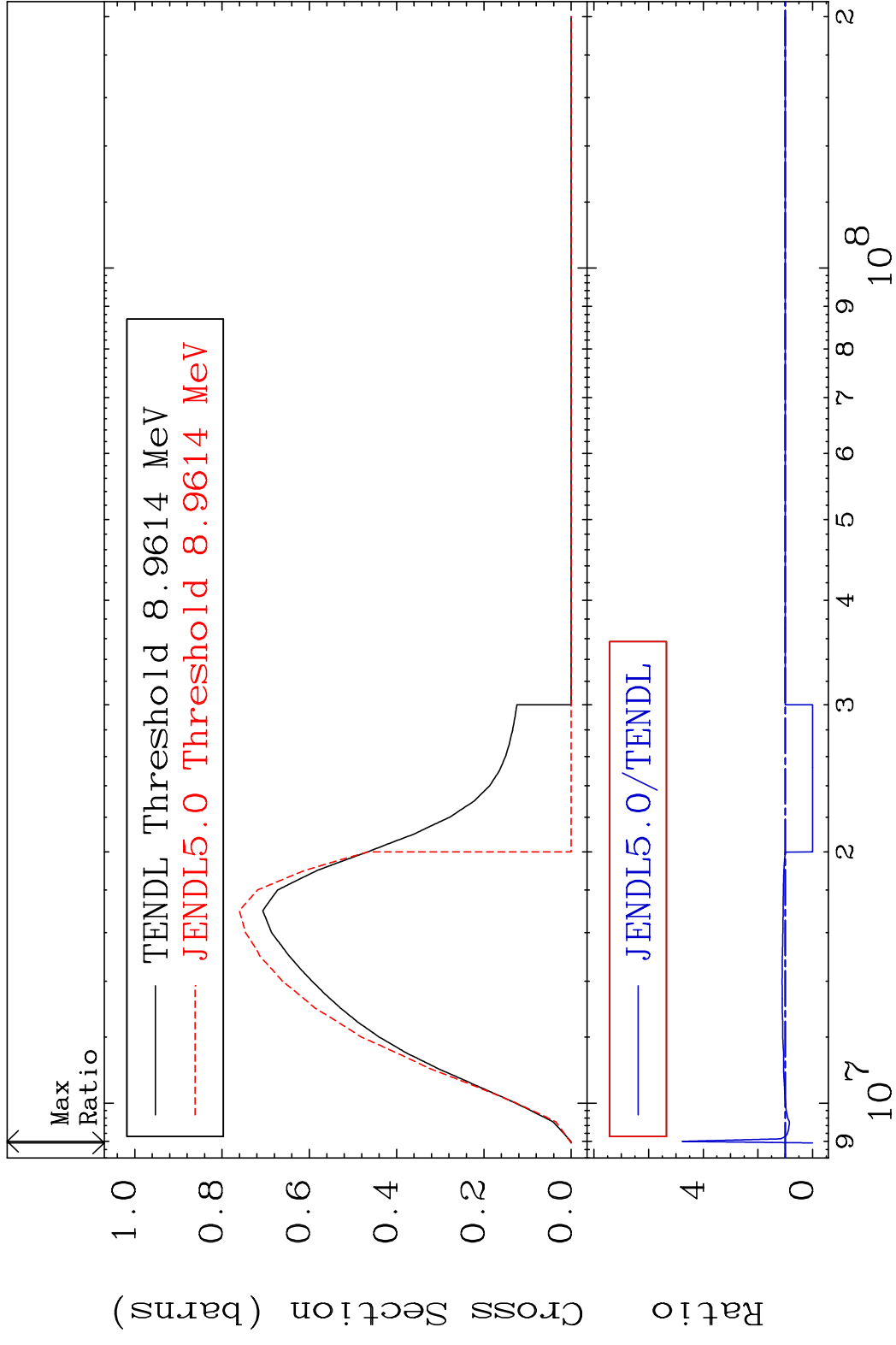
MAT 8228 Dpa disappearance (mt102 -120) 82-Pb-205  
 Cross Section -100.0 To 7679. %



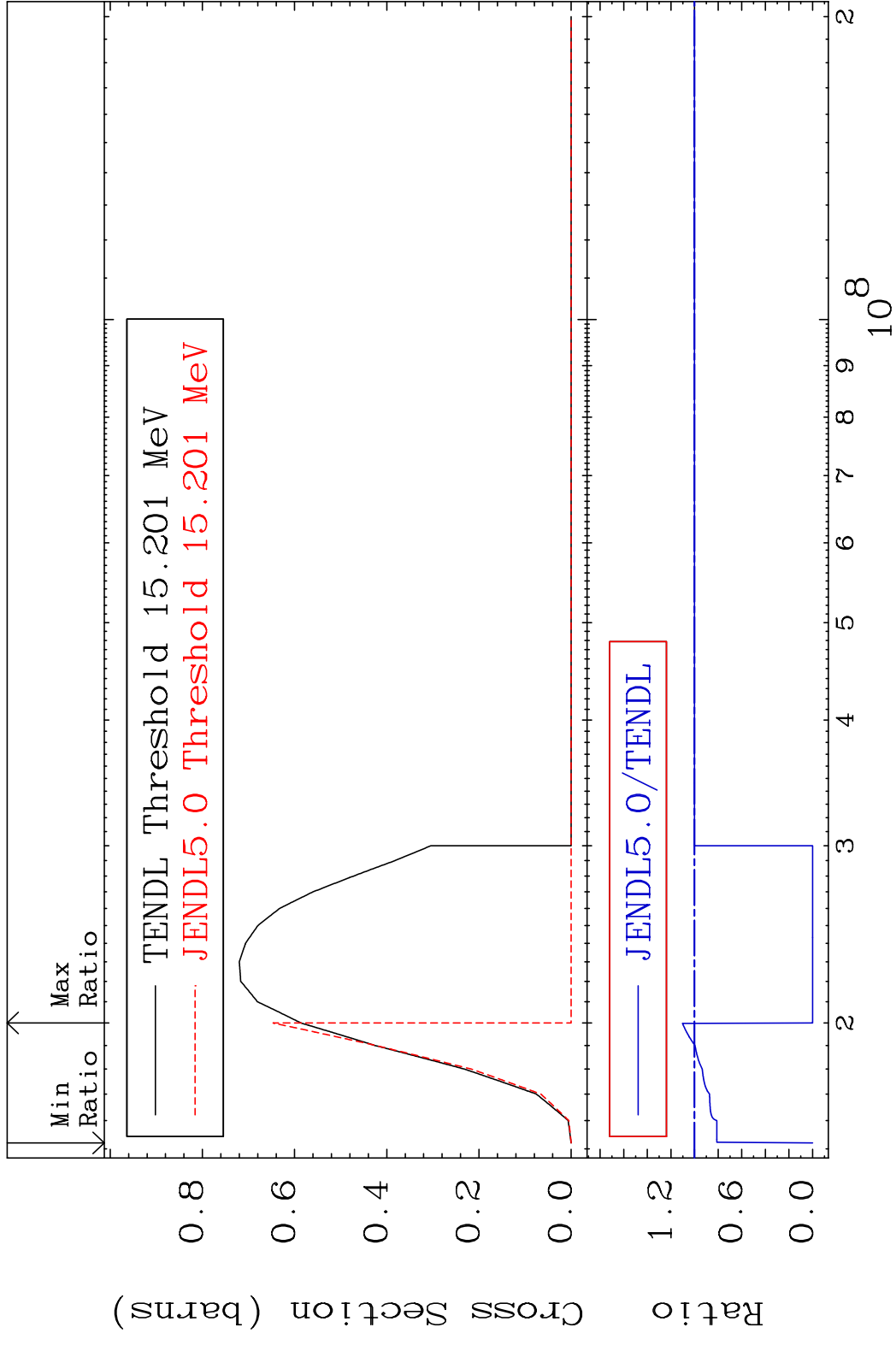
MAT 8228 (n,2n):82-Pb-204g 82-Pb-205  
 Radionuclide Production Cross Section 180.0 dth 560.3 %



MAT 8228 (n,2n):82-Pb-204m21 82-Pb-205  
 Radionuclide Production Cross Section 180.0 dth 376.5 %

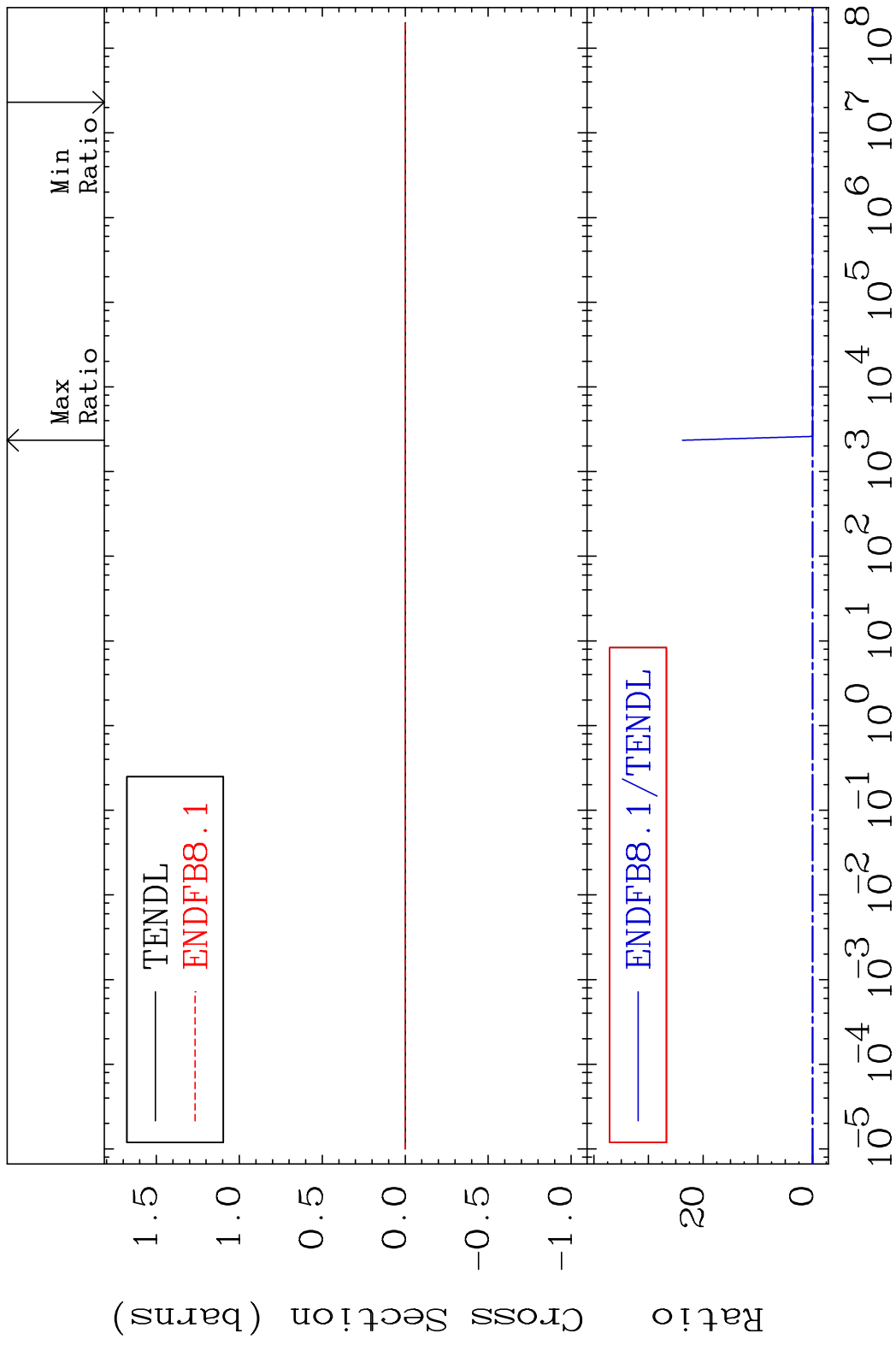


MAT 8228 (n,3n):82-Pb-203g 82-Pb-205  
 Radionuclide Production Cross Section 10.33 %



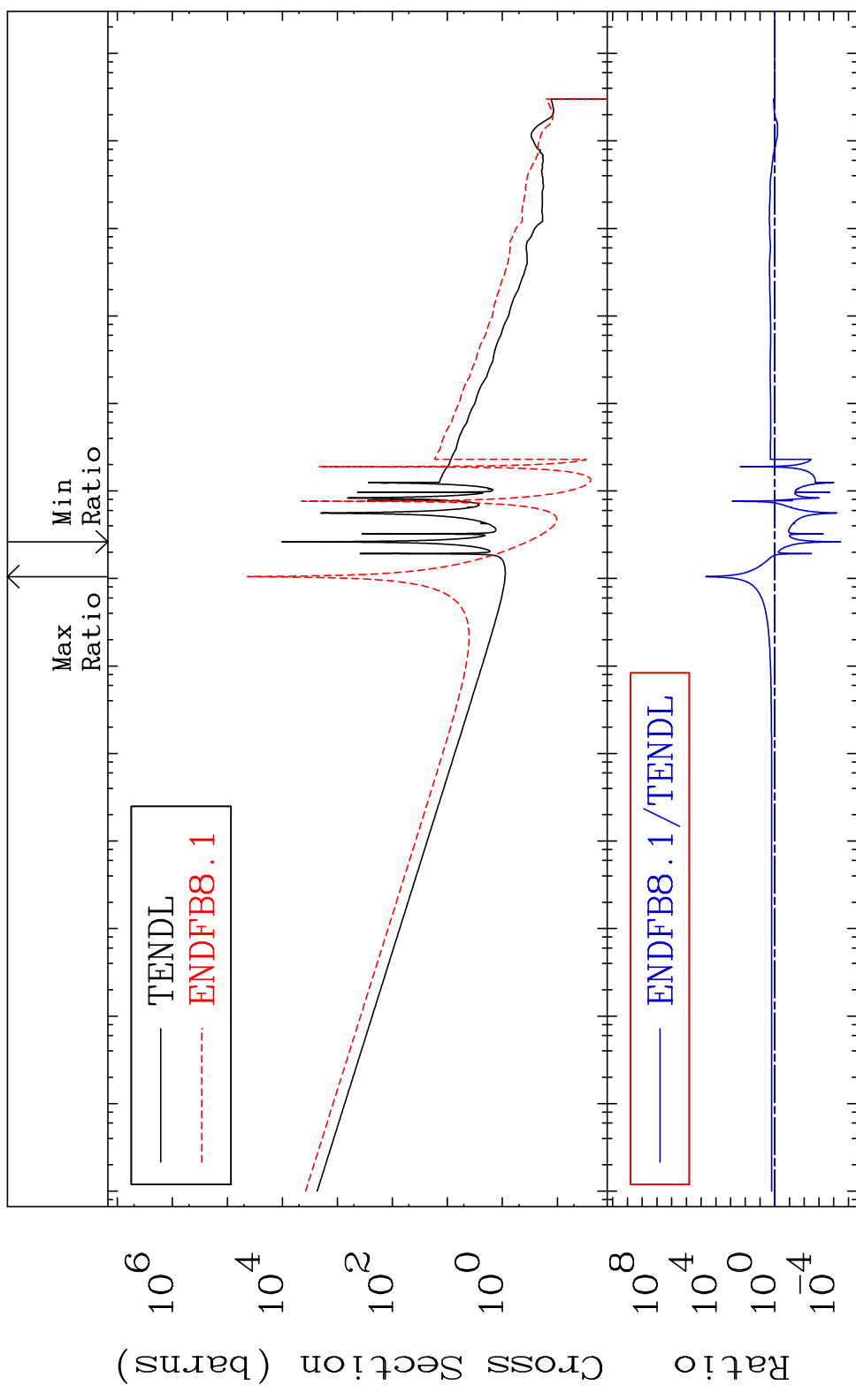


MAT 8228 Kerma fission (mt18 or mt19-20-21-38) 82-Pb-205  
 Cross Section -159.6 To 9999. %



MAT 8228

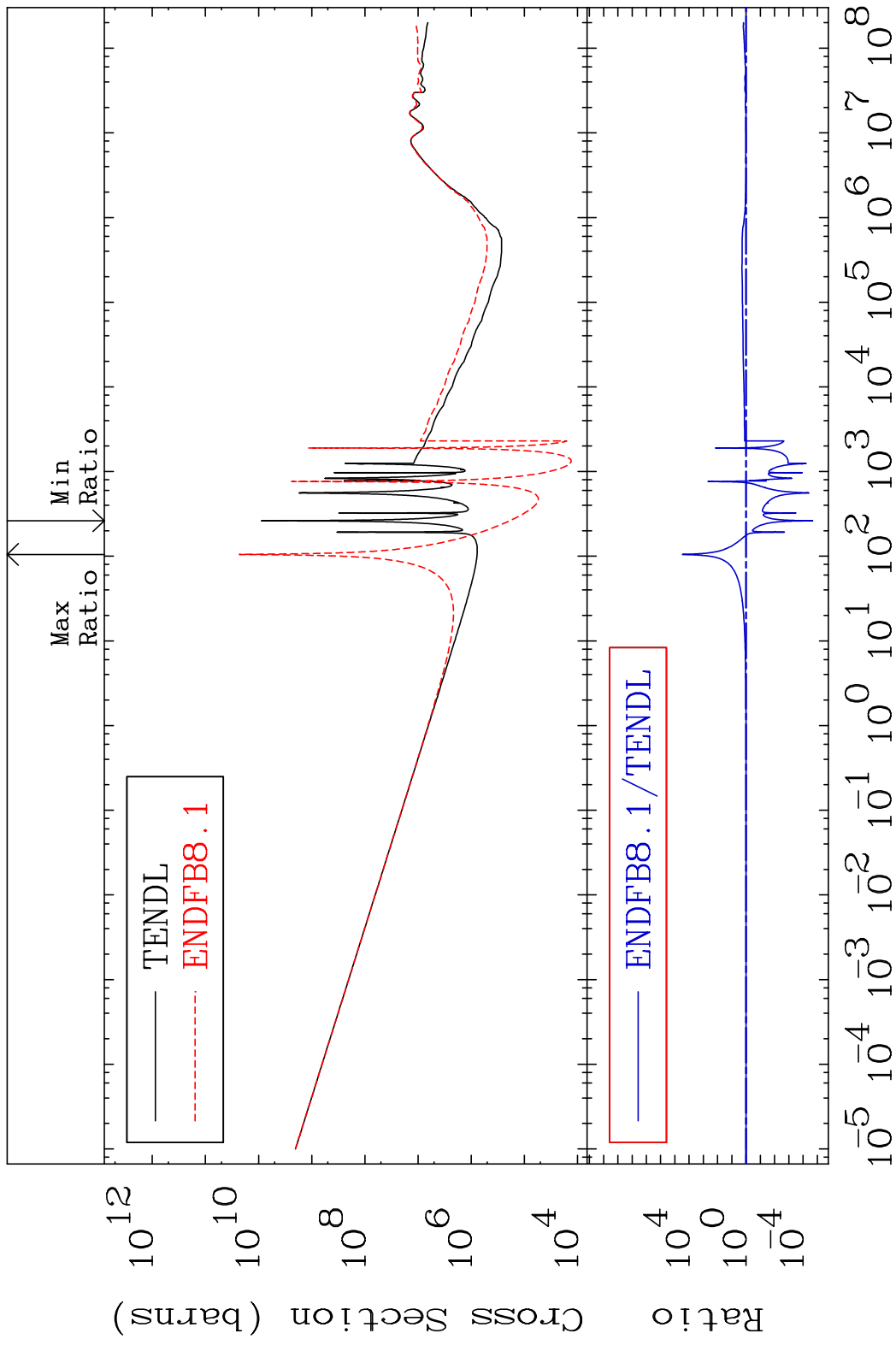
Kerma capture (mt102) 82-Pb-205  
Cross Section -100.0 To 9999. %



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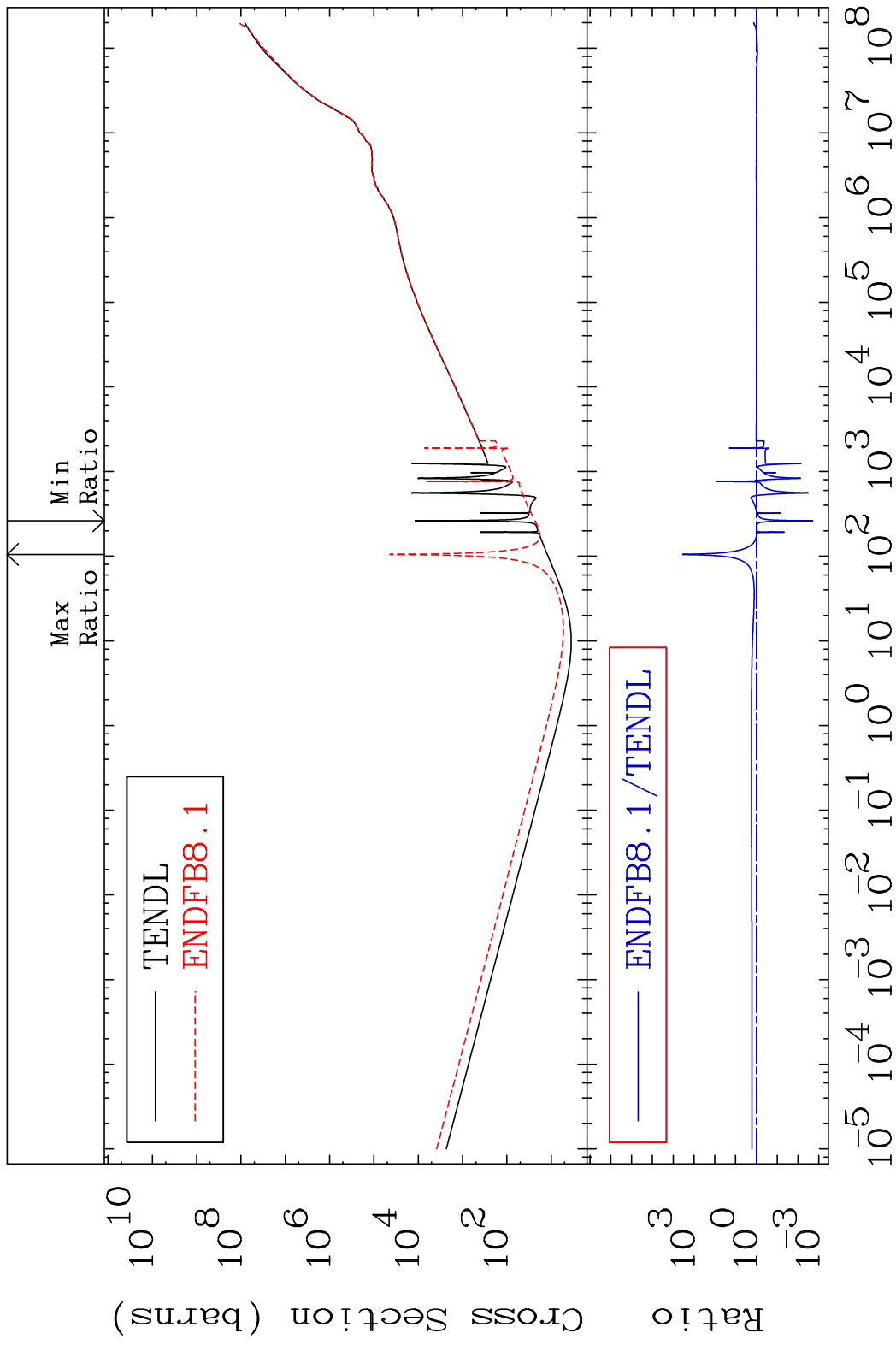
Incident Energy (eV) 82-Pb-205

MAT 8228 Total photon (eV-barns) 82-Pb-205  
 Cross Section -100.0 To 9999. %

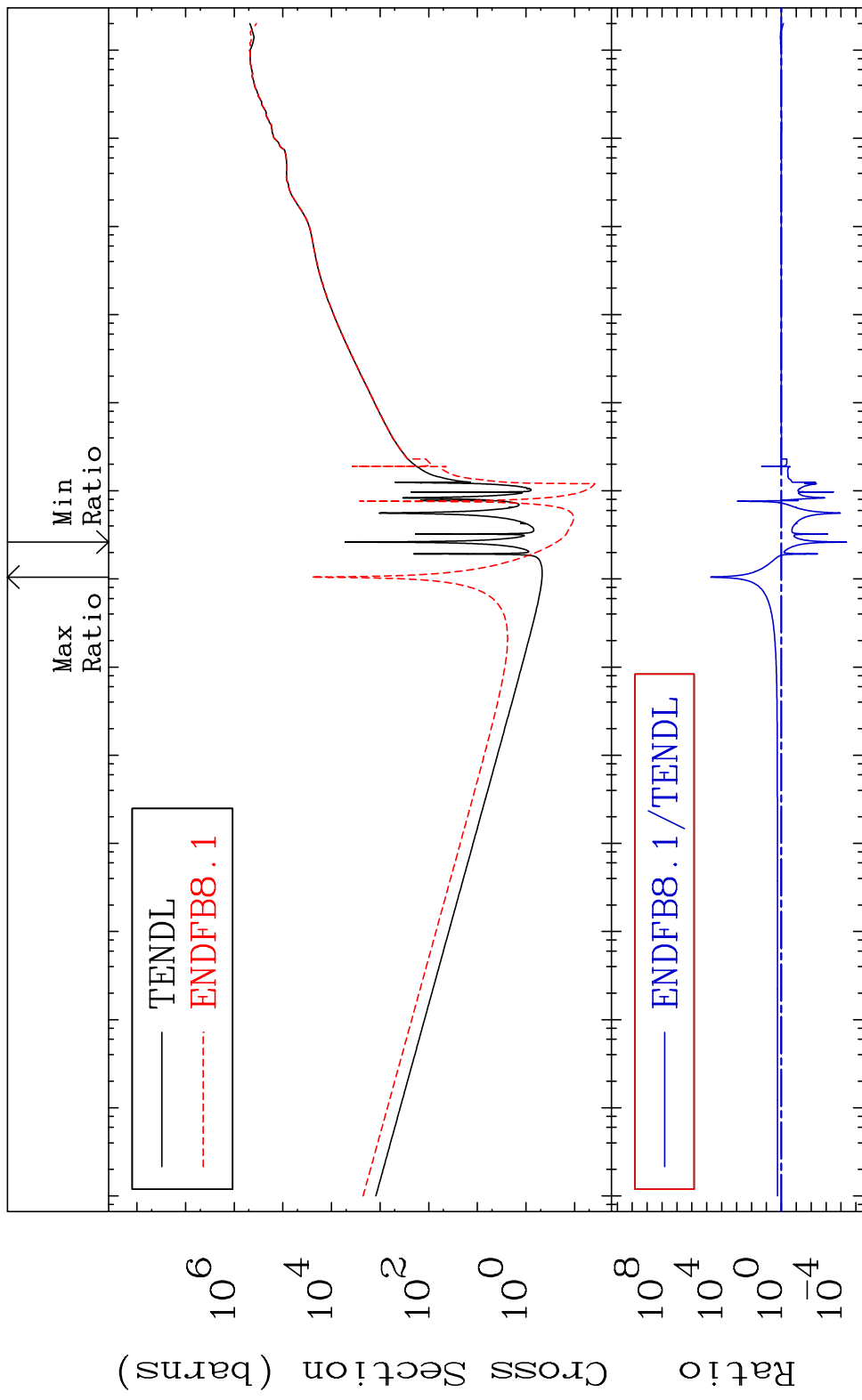


70 Incident Energy (eV) 82-Pb-205

MAT 8228 Total kinematic kerma (high limit) 82-Pb-205  
 Cross Section -99.80 To 9999. %



MAT 8228      Dpa total (eV-barns)      82-Pb-205  
 Cross Section      -100.0 To 9999.      %

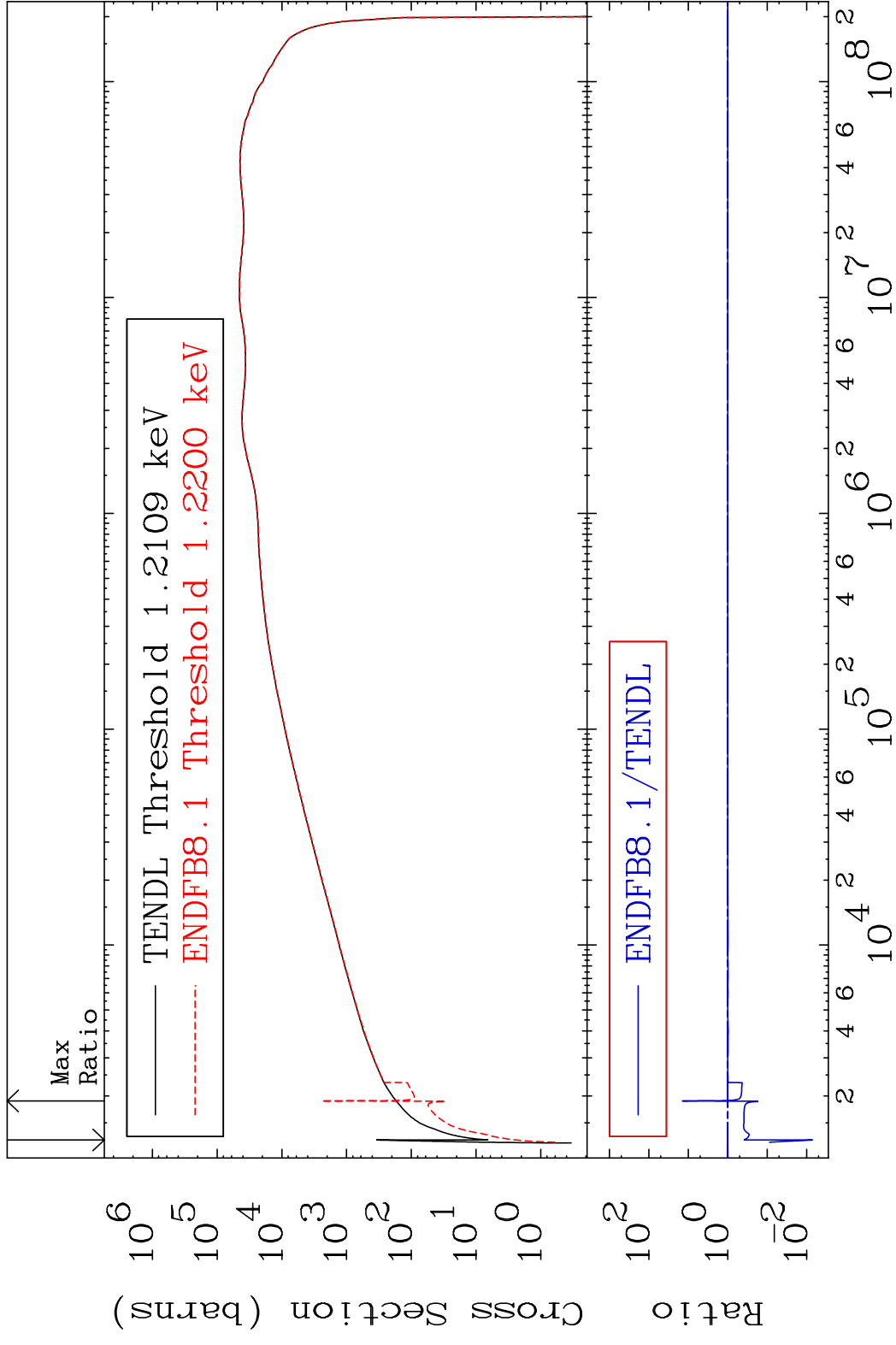


MAT 8228

Dpa elastic (mt2)

82-Pb-205

Cross Section -99.29 To 1317. %

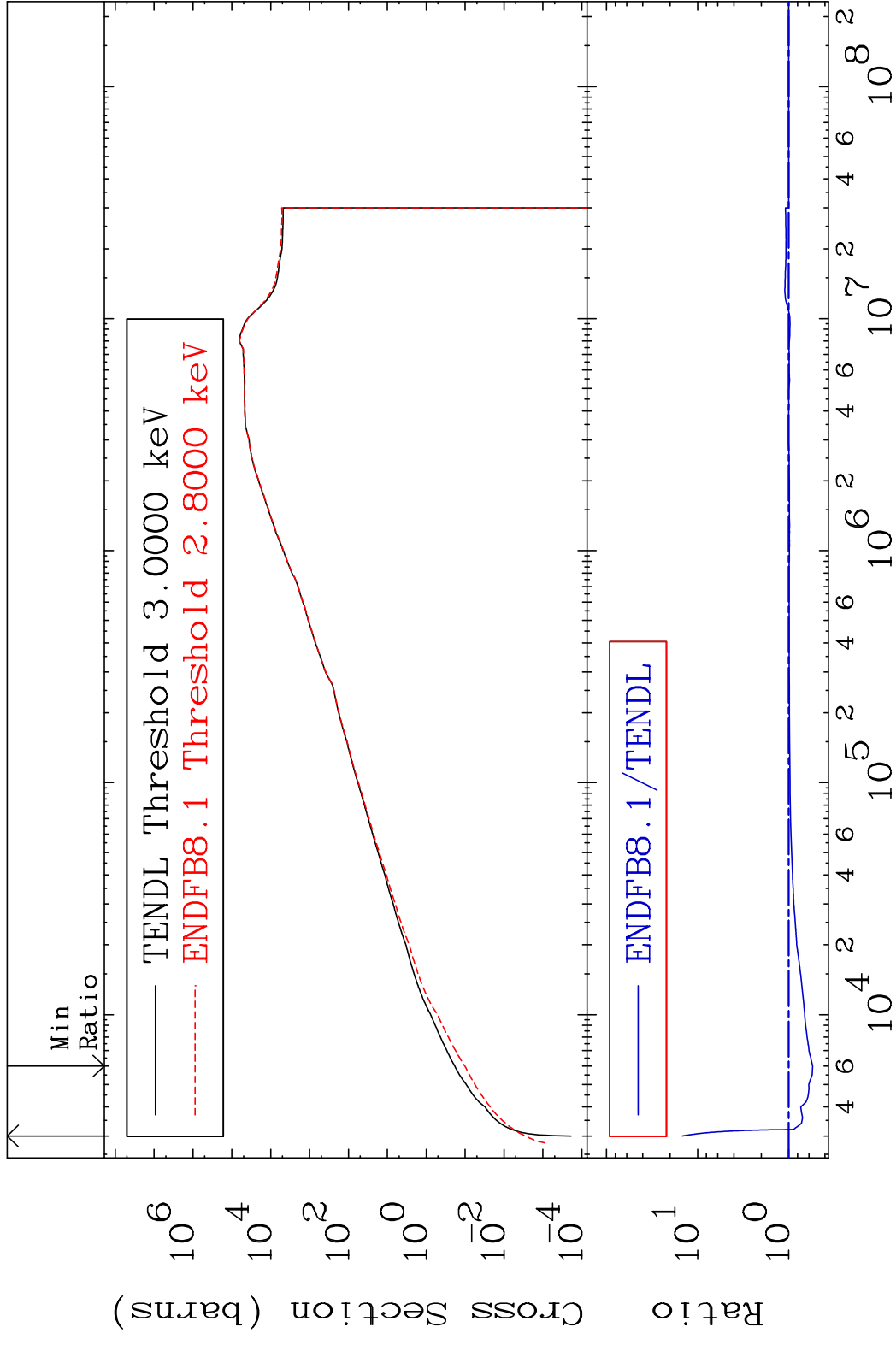


MAT 8228

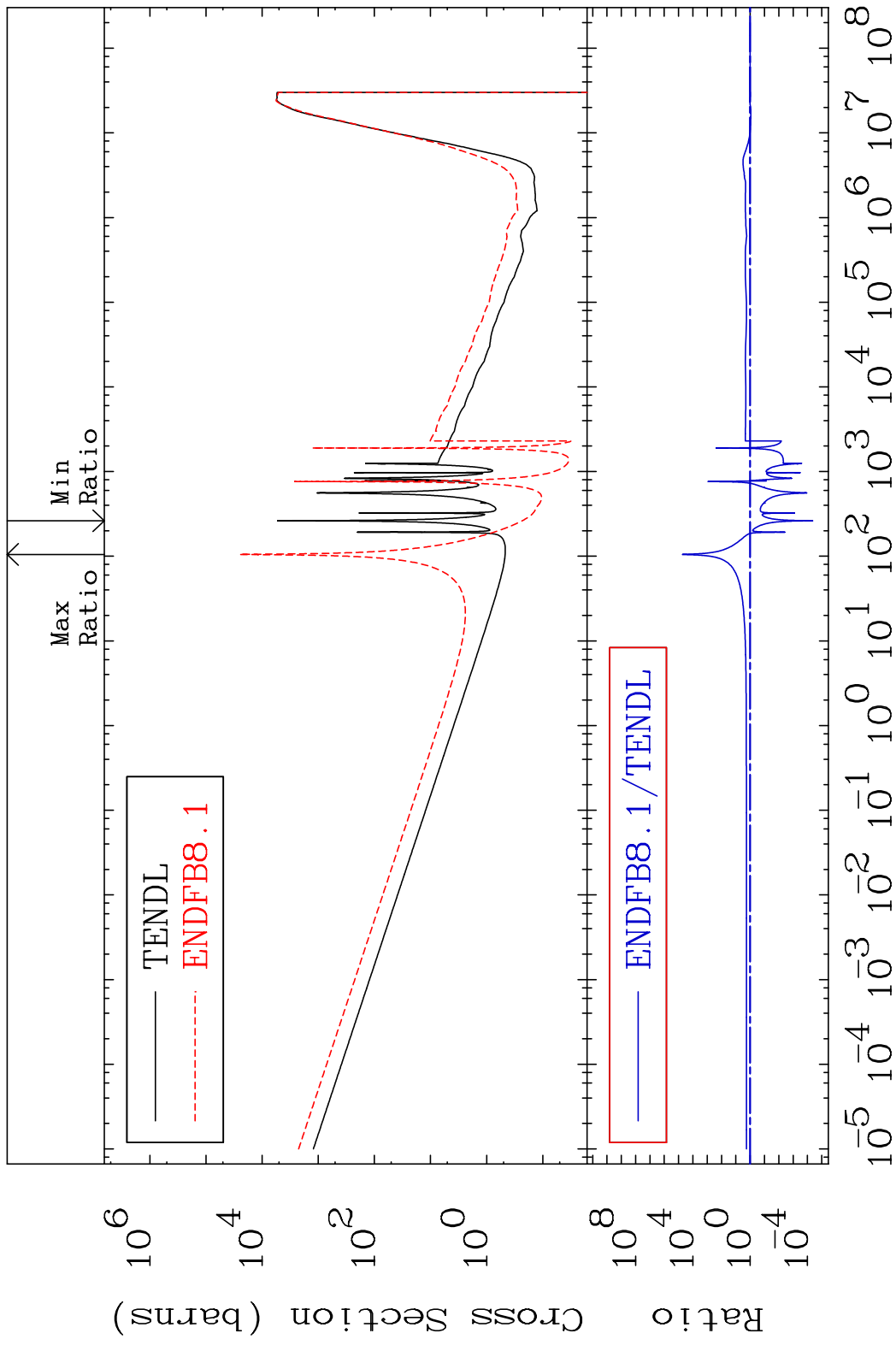
Dpa inelastic (mt51-91)

82-Pb-205

Cross Section -45.27 To 1370. %

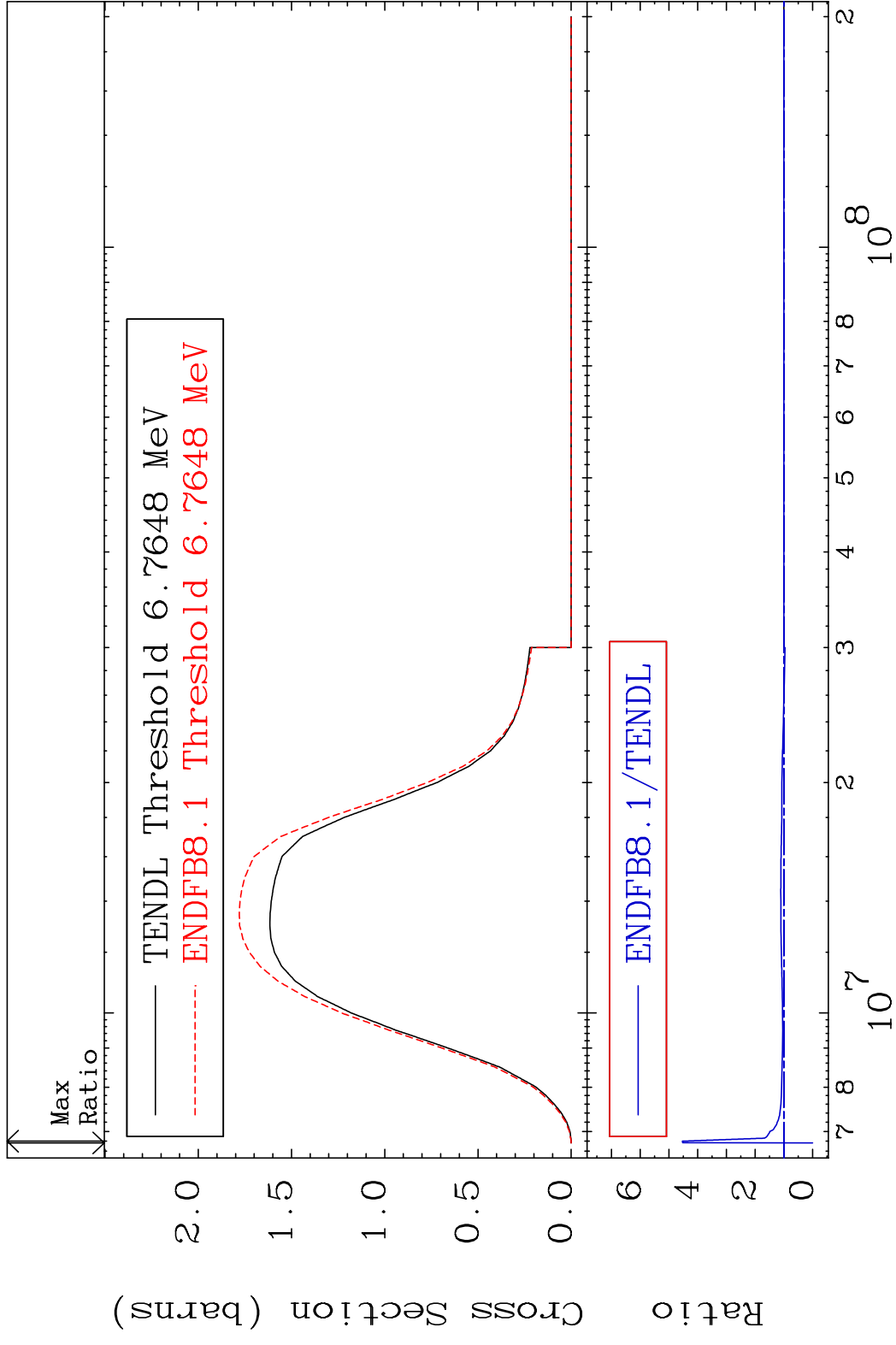


MAT 8228 Dpa disappearance (mt102 -120) 82-Pb-205  
 Cross Section -100.0 To 9999. %

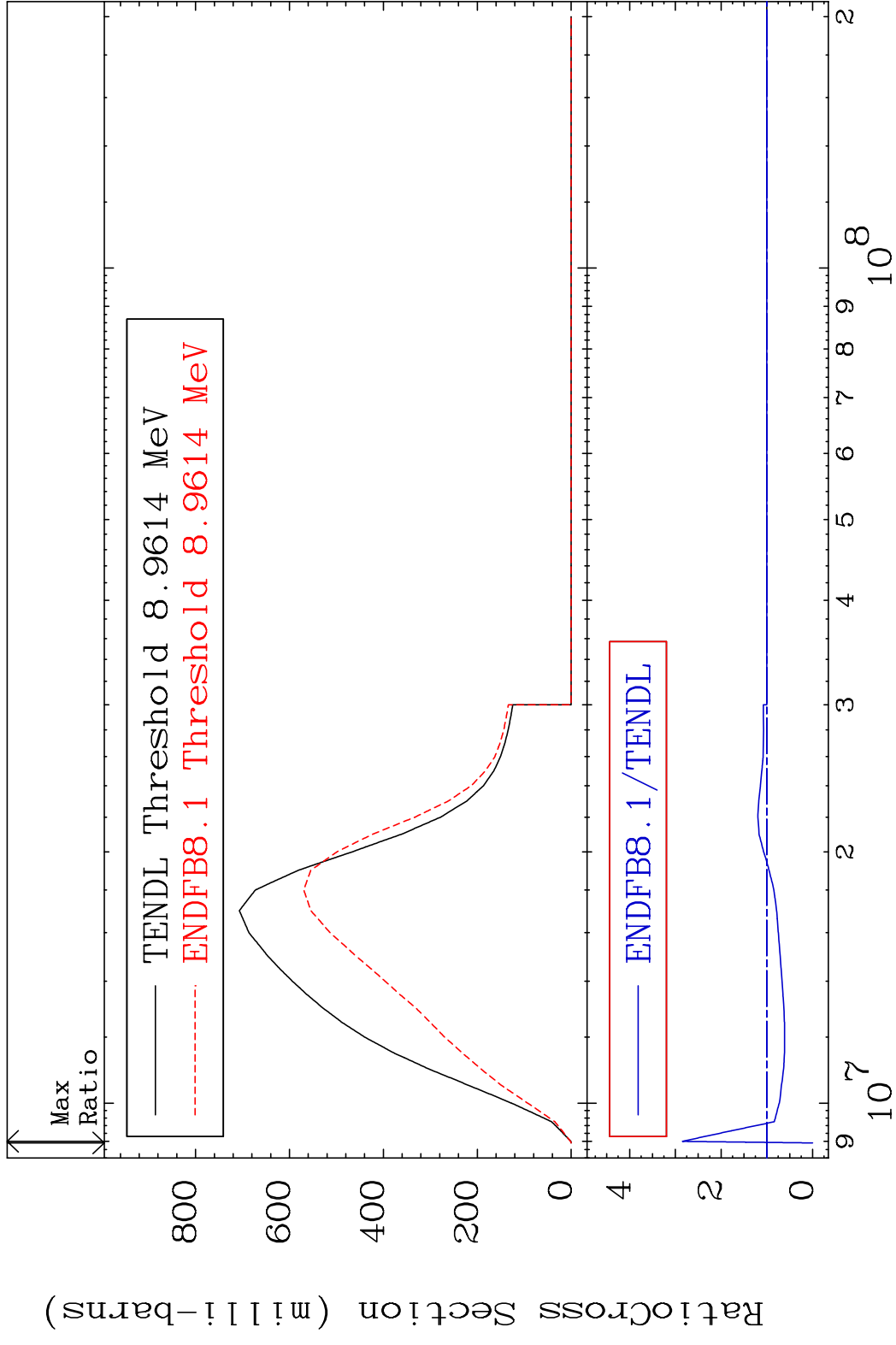


75 Incident Energy (eV) 82-Pb-205

MAT 8228 (n,2n):82-Pb-204g 82-Pb-205  
 Radionuclide Production Cross Section 180.0 dth 353.0 %

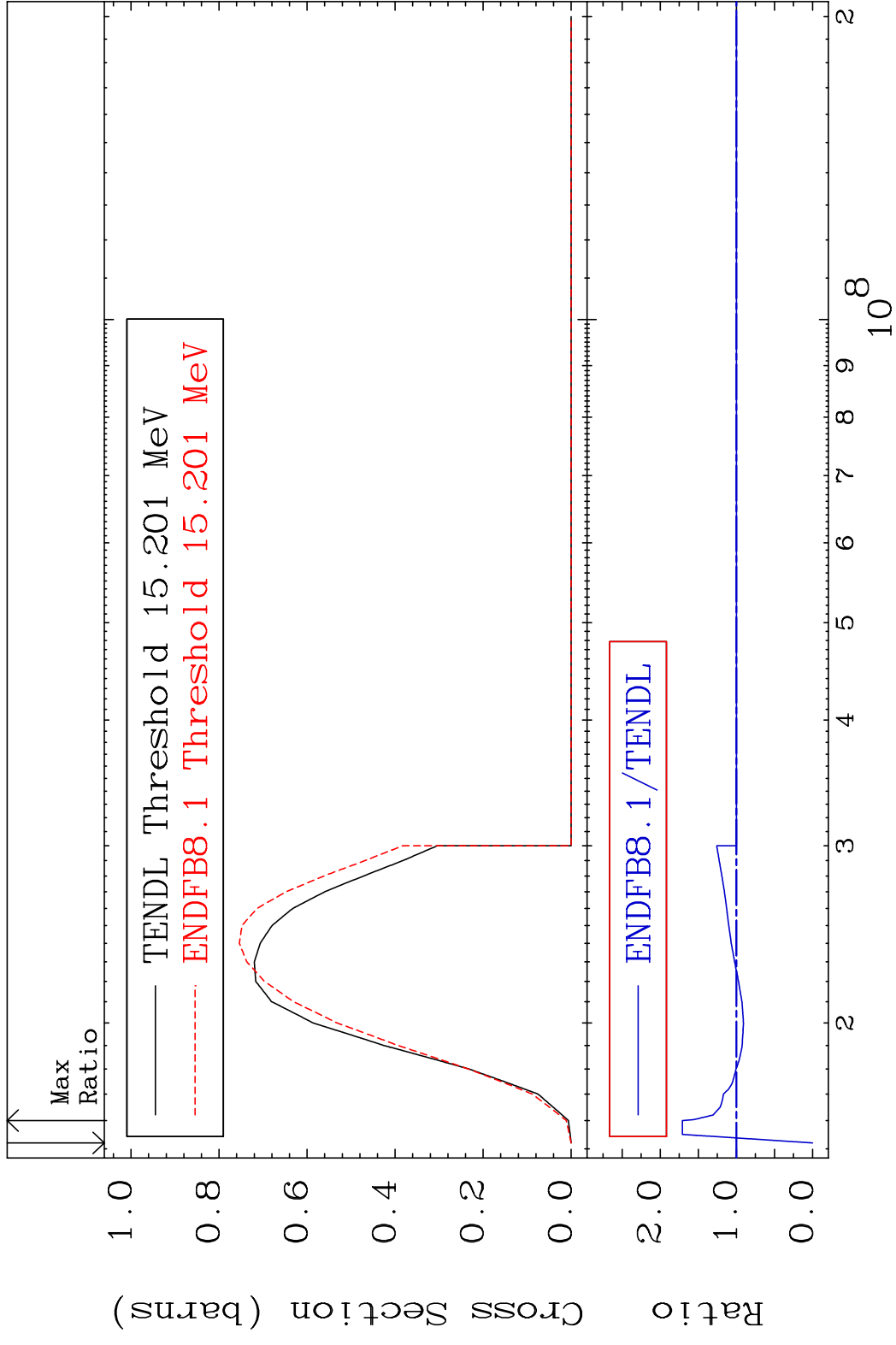


MAT 8228 (n,2n):82-Pb-204m21 82-Pb-205  
 Radionuclide Production Cross Section 184.7 %

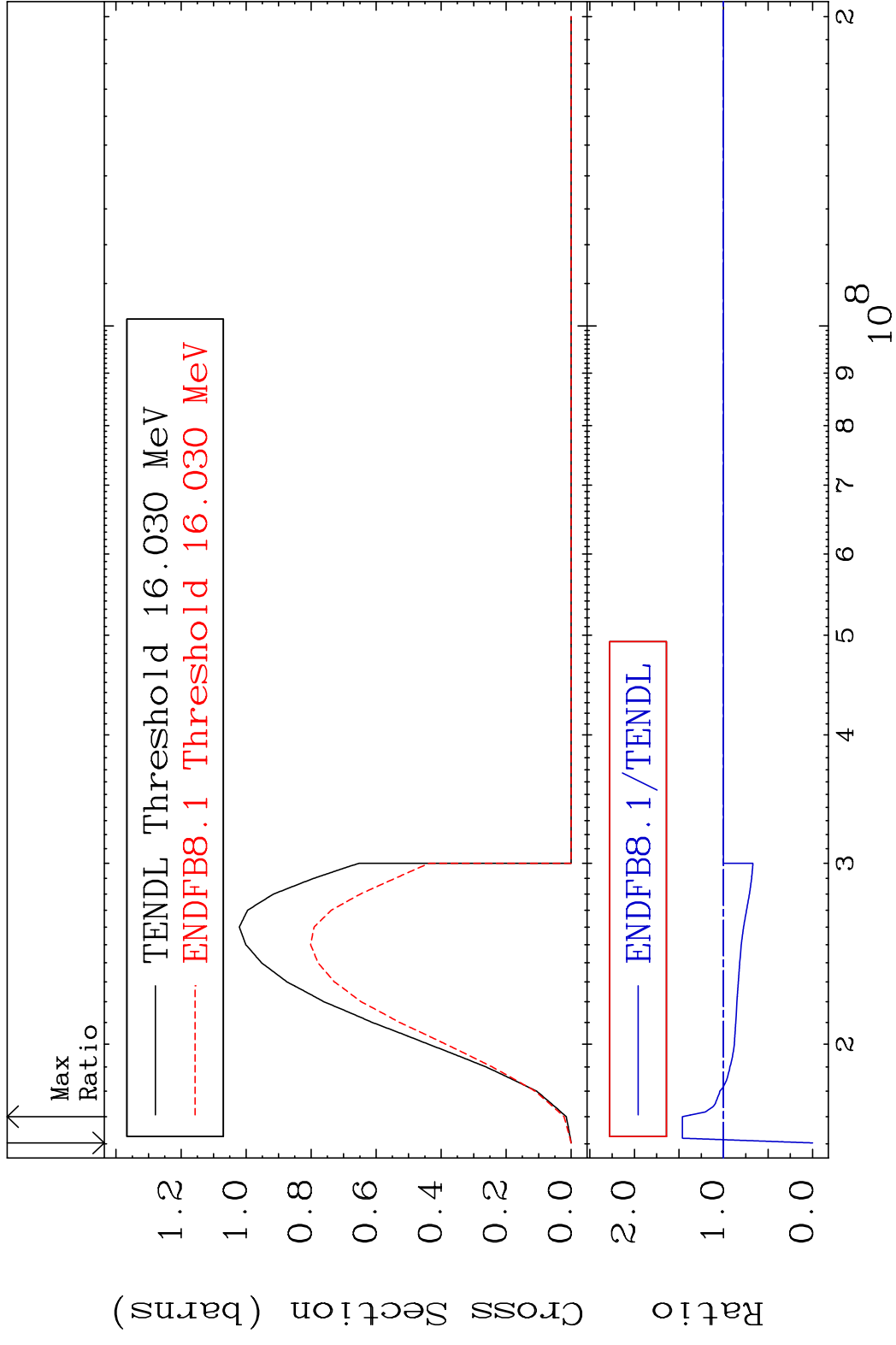


77 Incident Energy (eV) 82-Pb-205

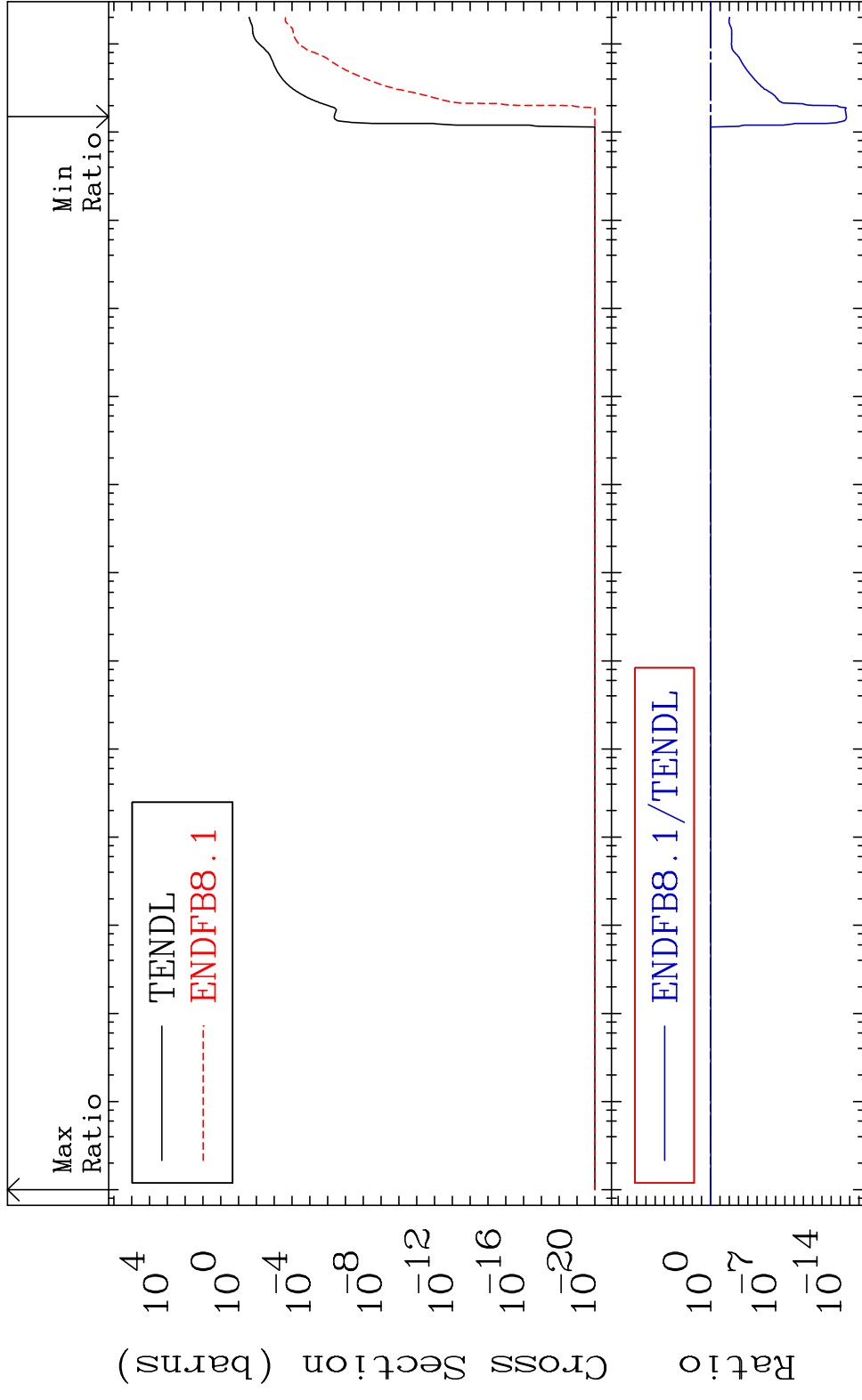
MAT 8228 (n,3n):82-Pb-203g 82-Pb-205  
 Radionuclide Production Cross Section Ratio 70.95 %



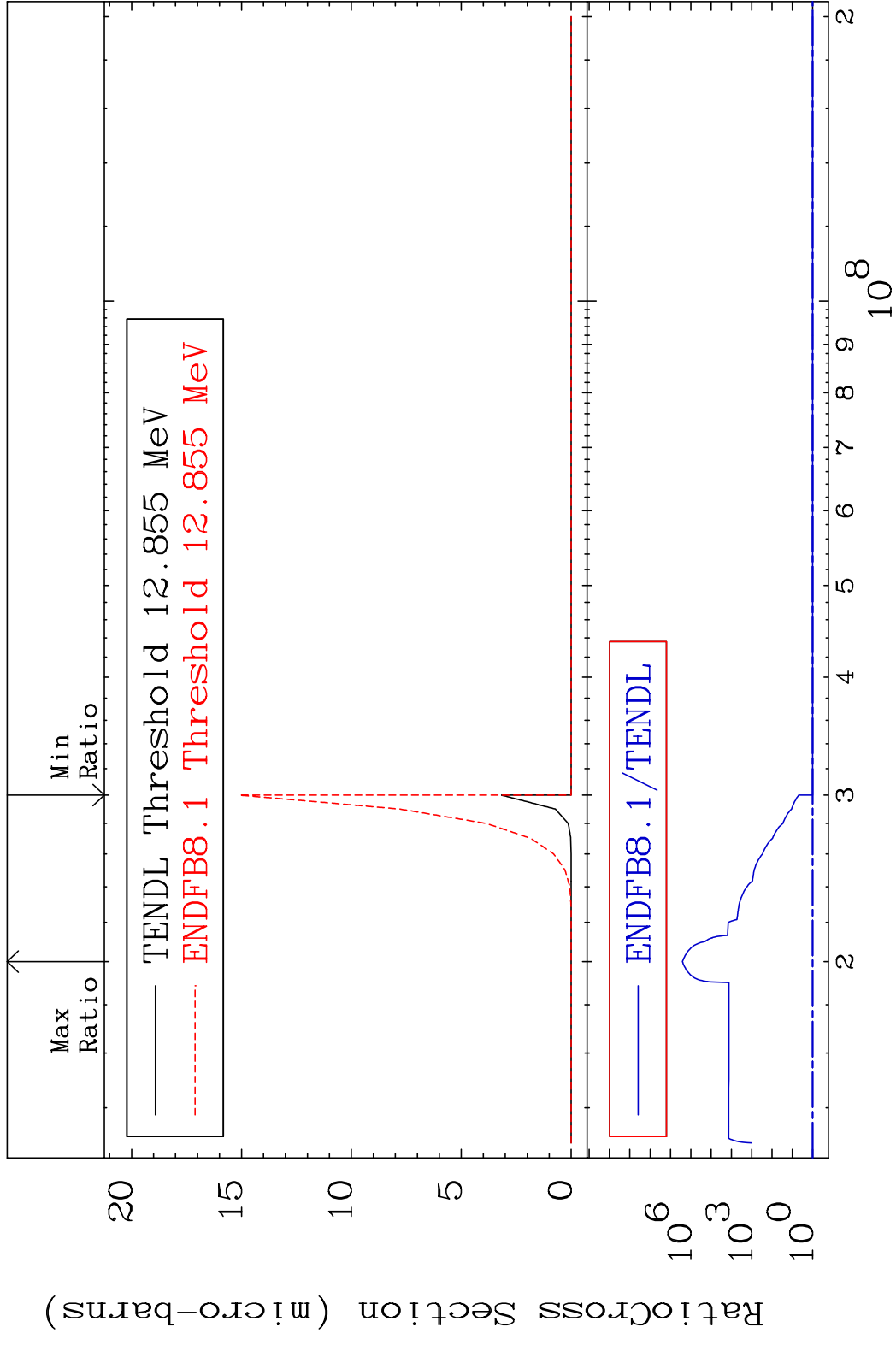
MAT 8228 (n, 3n): 82-Pb-203m6 82-Pb-205  
 Radionuclide Production Cross Section 180.01 dth 46.20 %

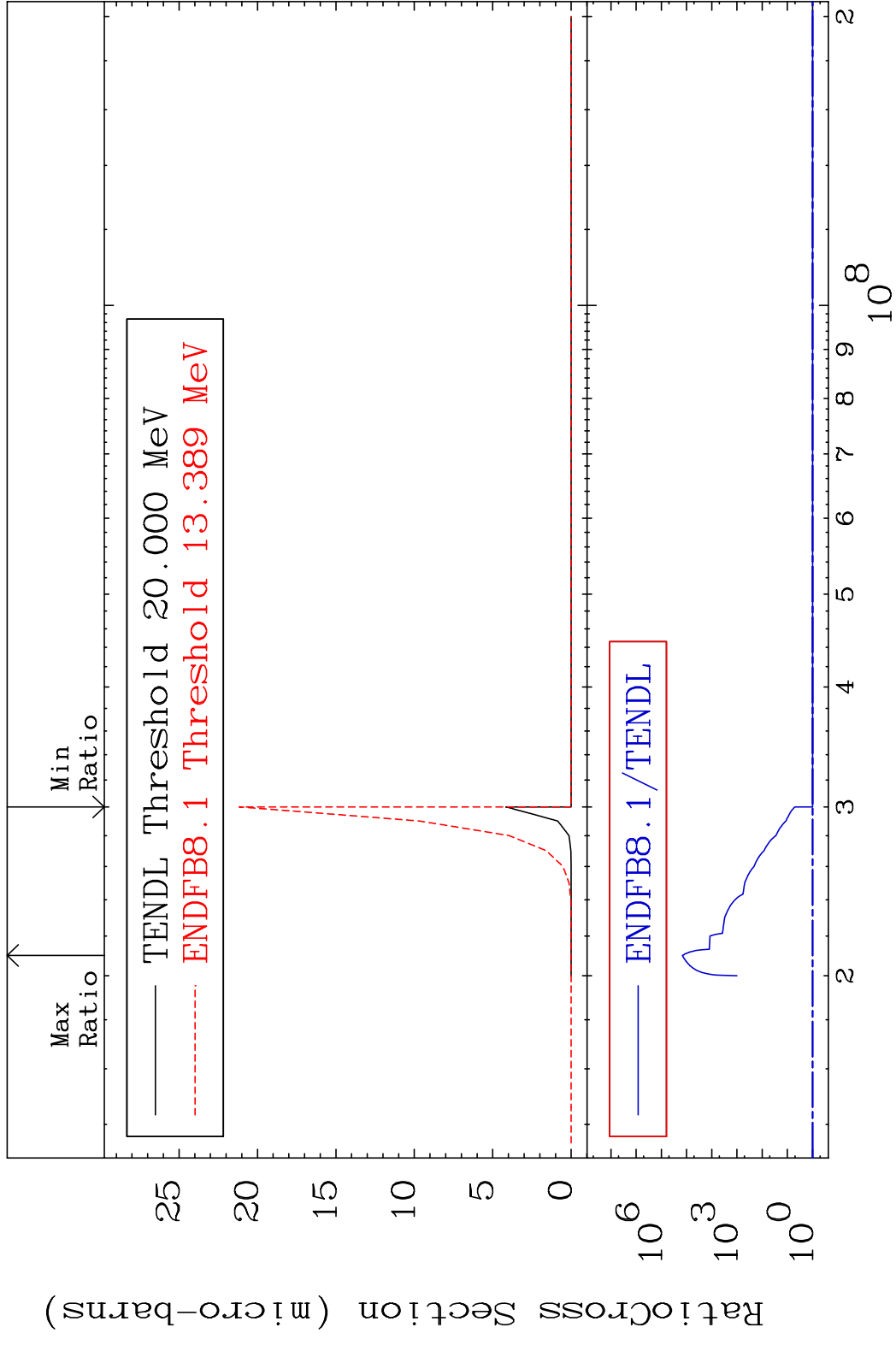


MAT 8228 Fission:0-??-Nat 82-Pb-205  
 Radionuclide Production Cross Section 0.000 %

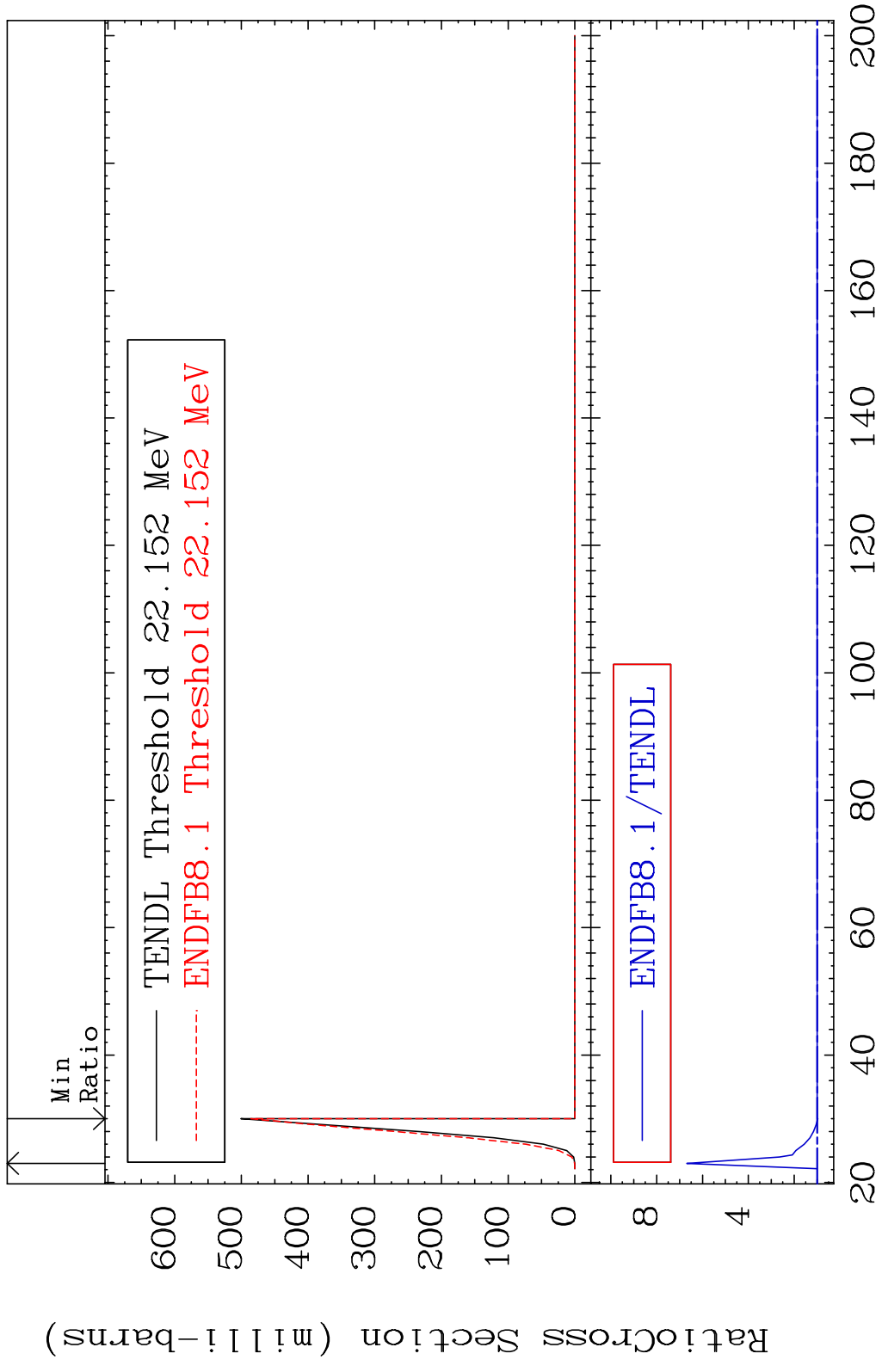


80 Incident Energy (eV) 82-Pb-205





MAT 8228 (n,4n):82-Pb-202g 82-Pb-205  
 Radionuclide Production Cross Section 568.8 %



MAT 8228 (n, 4n): 82-Pb-202m14 82-Pb-205  
 Radionuclide Production Cross Section 803.3 %

