

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

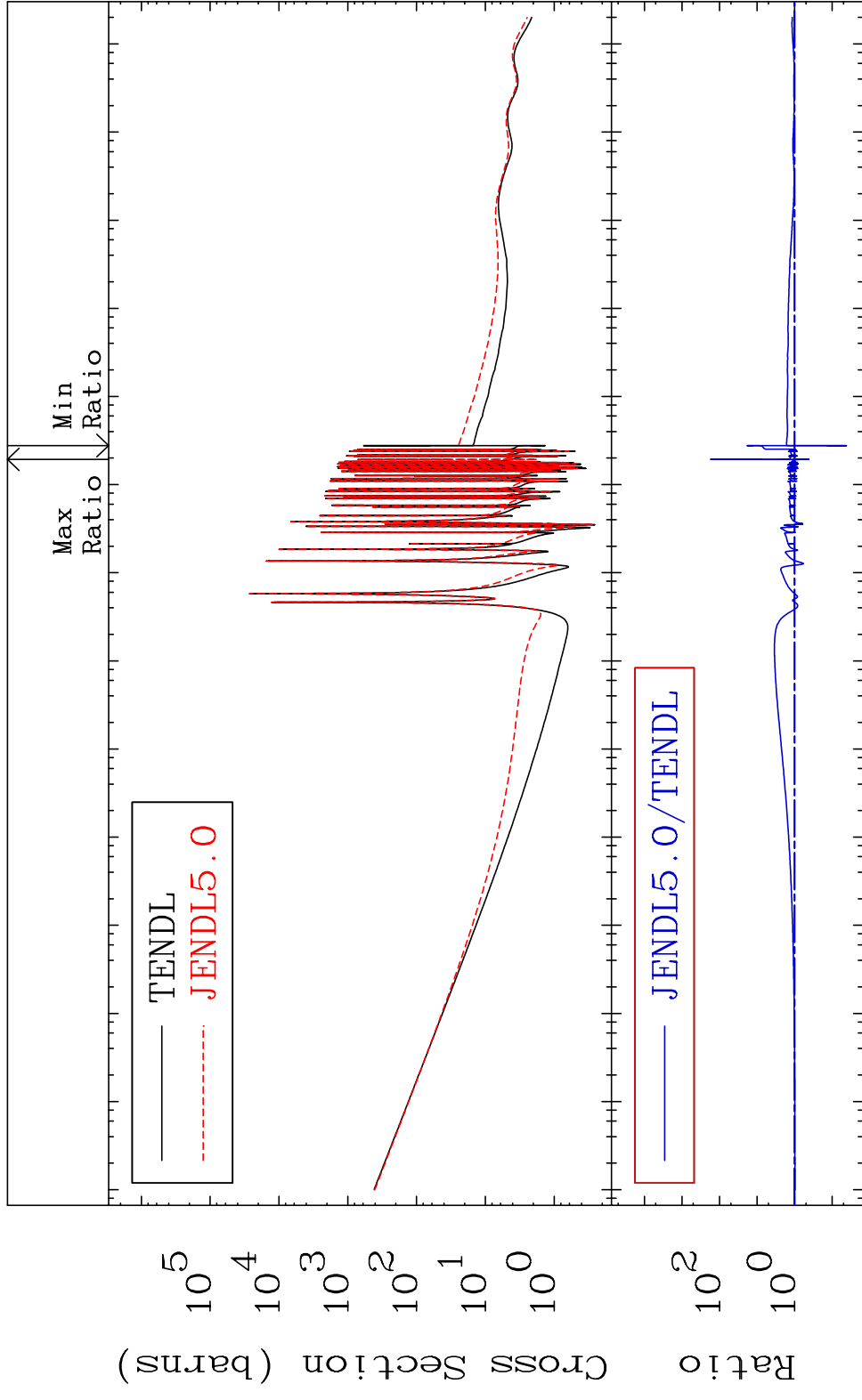
MAT 5625

Total

56-Ba-130

Cross Section

-95.80 To 9999. %



1

Incident Energy (eV)

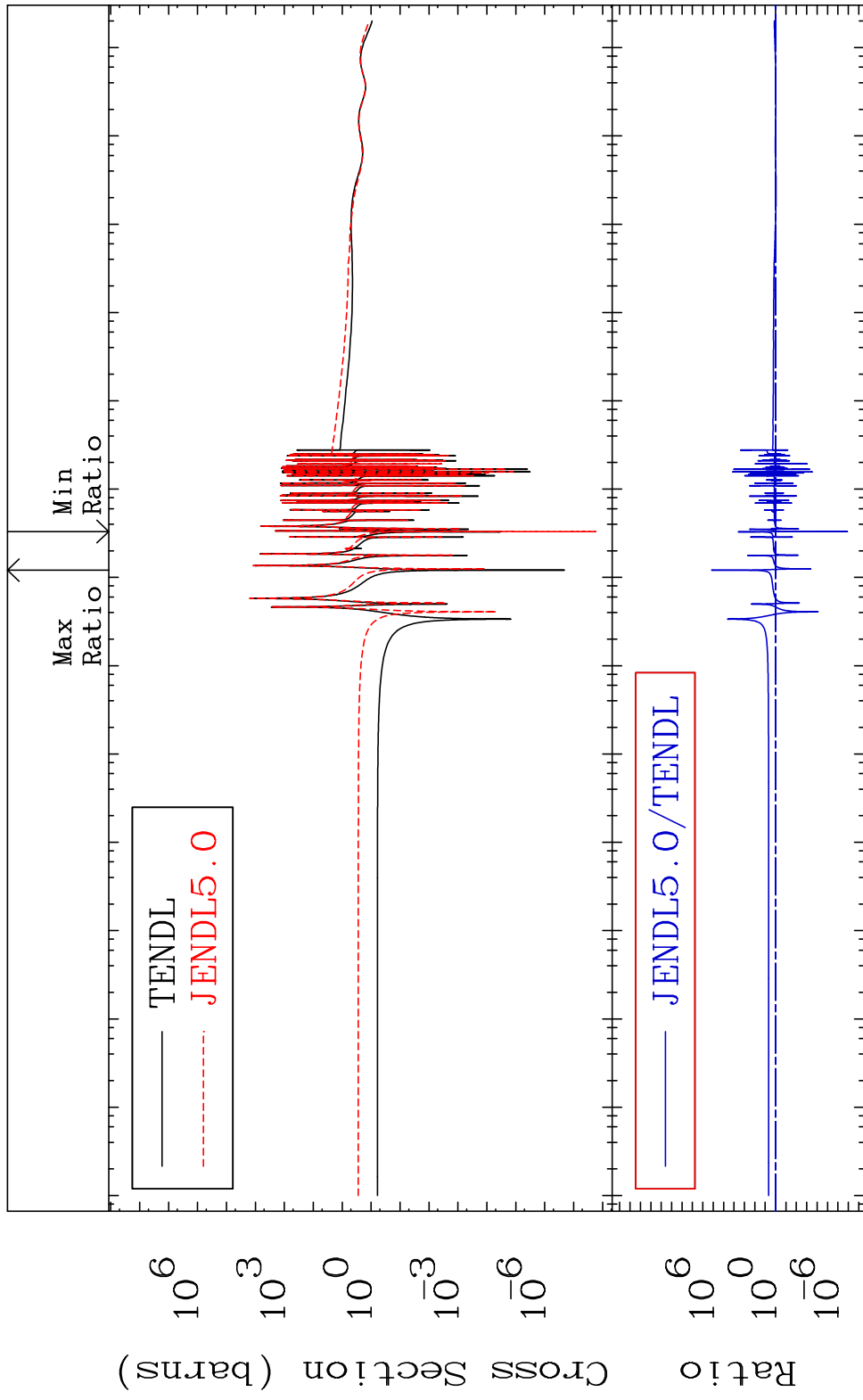
56-Ba-130

MAT 5625

Elastic

56-Ba-130

Cross Section -100.0 To 9999. %

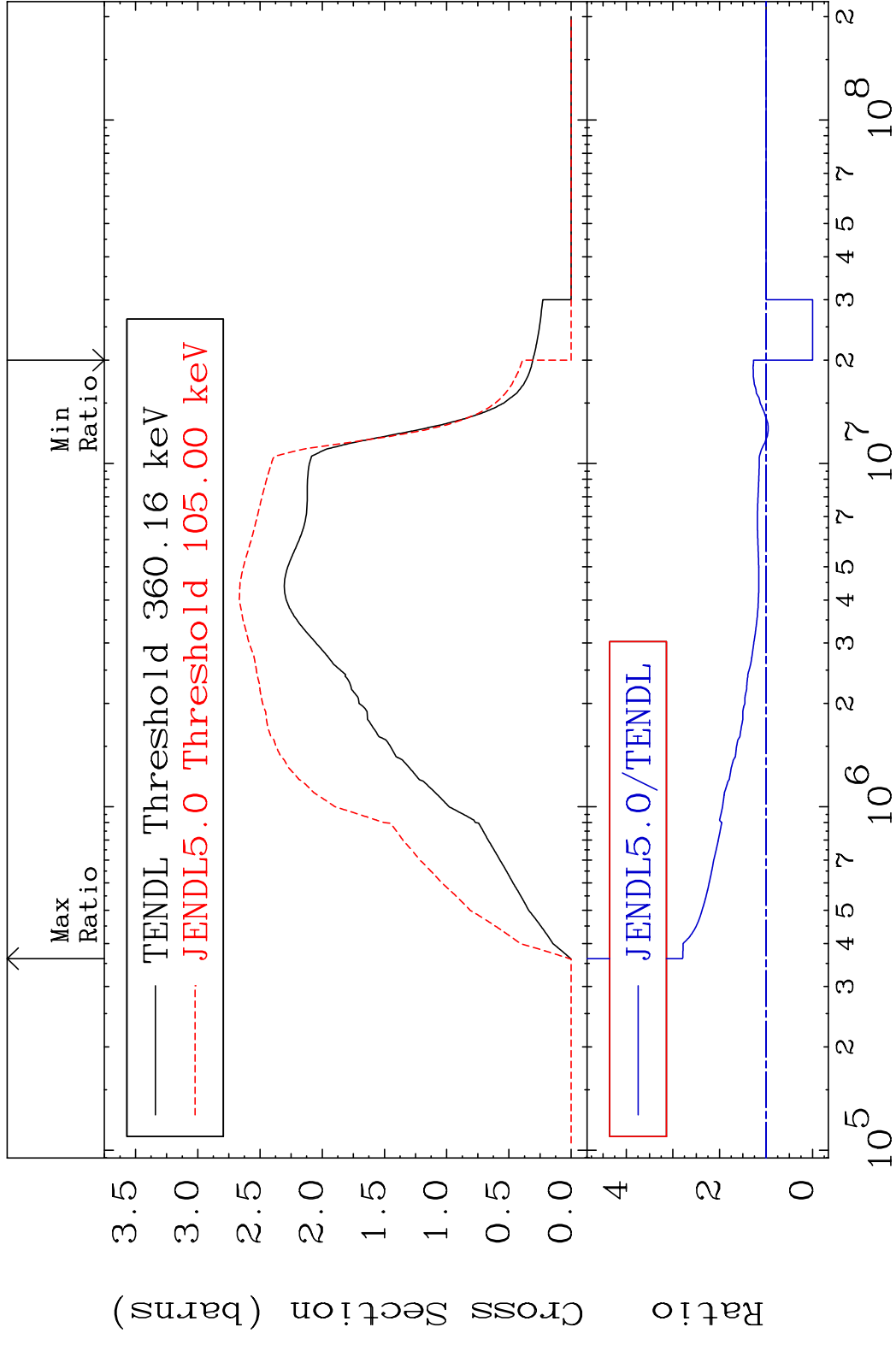


2

Incident Energy (eV)

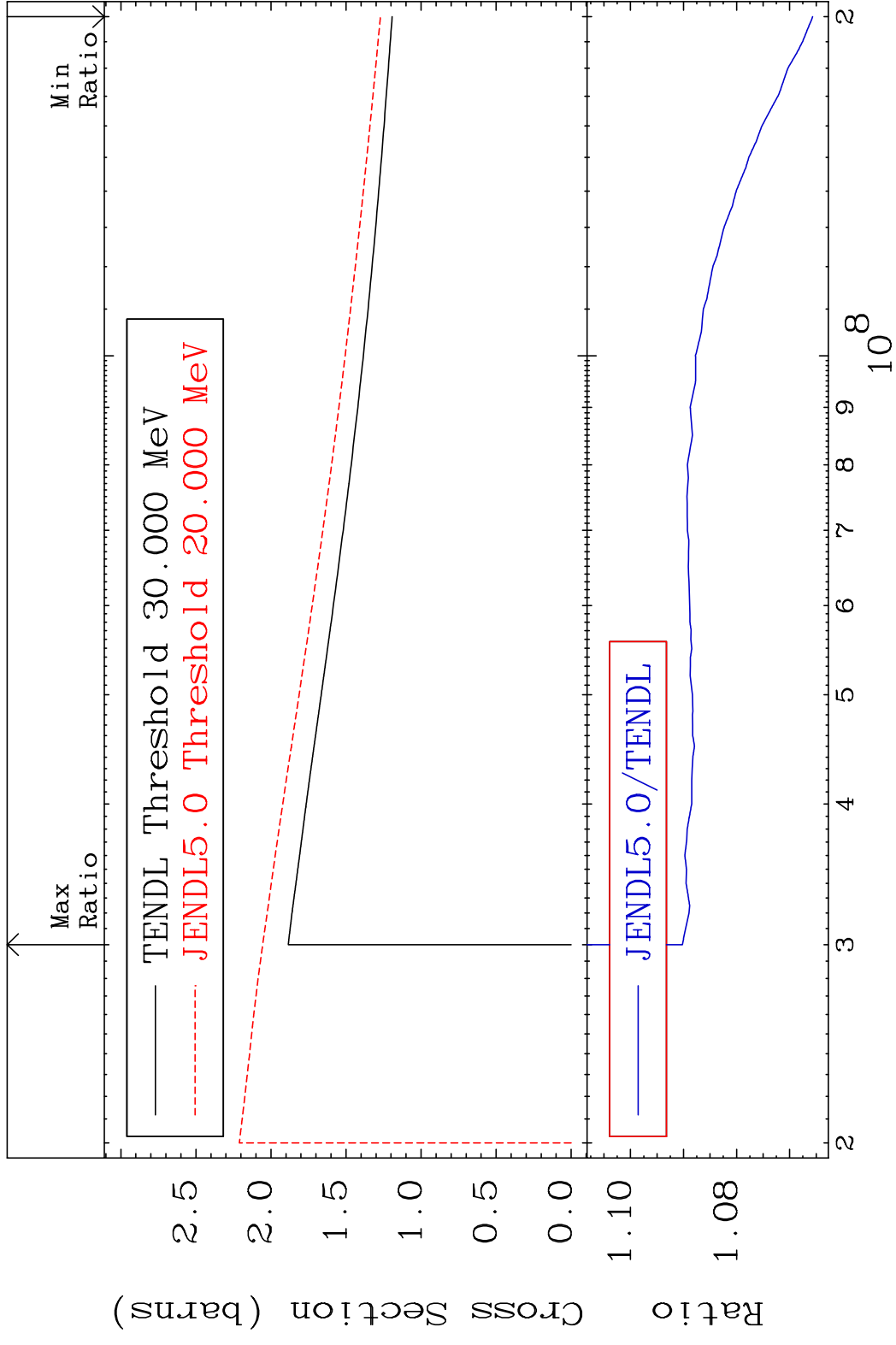
56-Ba-130

MAT 5625 Inelastic 56-Ba-130  
 Cross Section -100.0 To 179.7 %



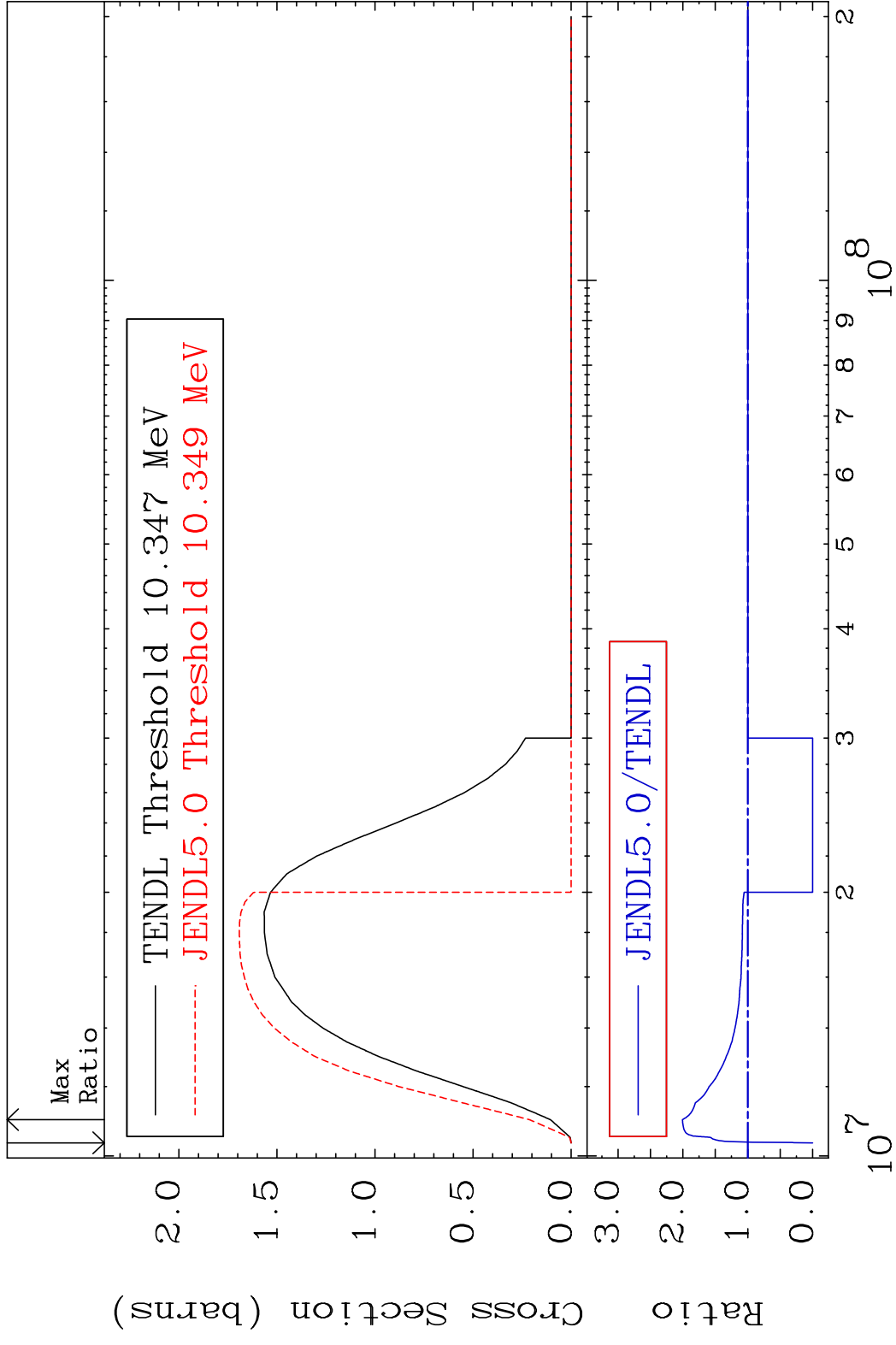
3 2 3 4 5 7 2 3 4 5 7 8 2  
 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>  
 56-Ba-130

MAT 5625 (n, remainder) 56-Ba-130  
 Cross Section 6.568 To 9.022 %



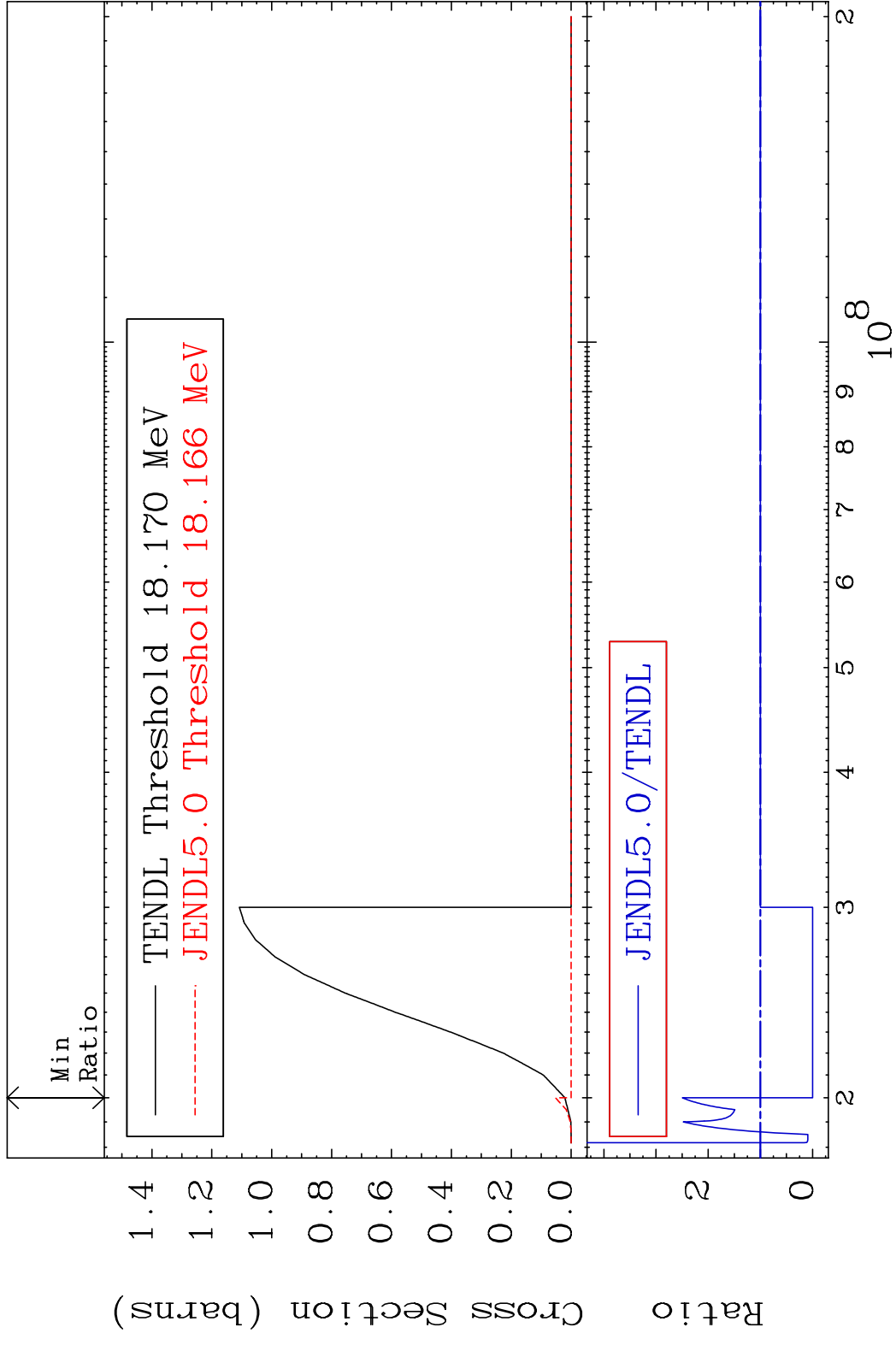
4 Incident Energy (eV) 56-Ba-130

MAT 5625 (n,2n) 56-Ba-130  
 Cross Section -100.0 To 100.8 %

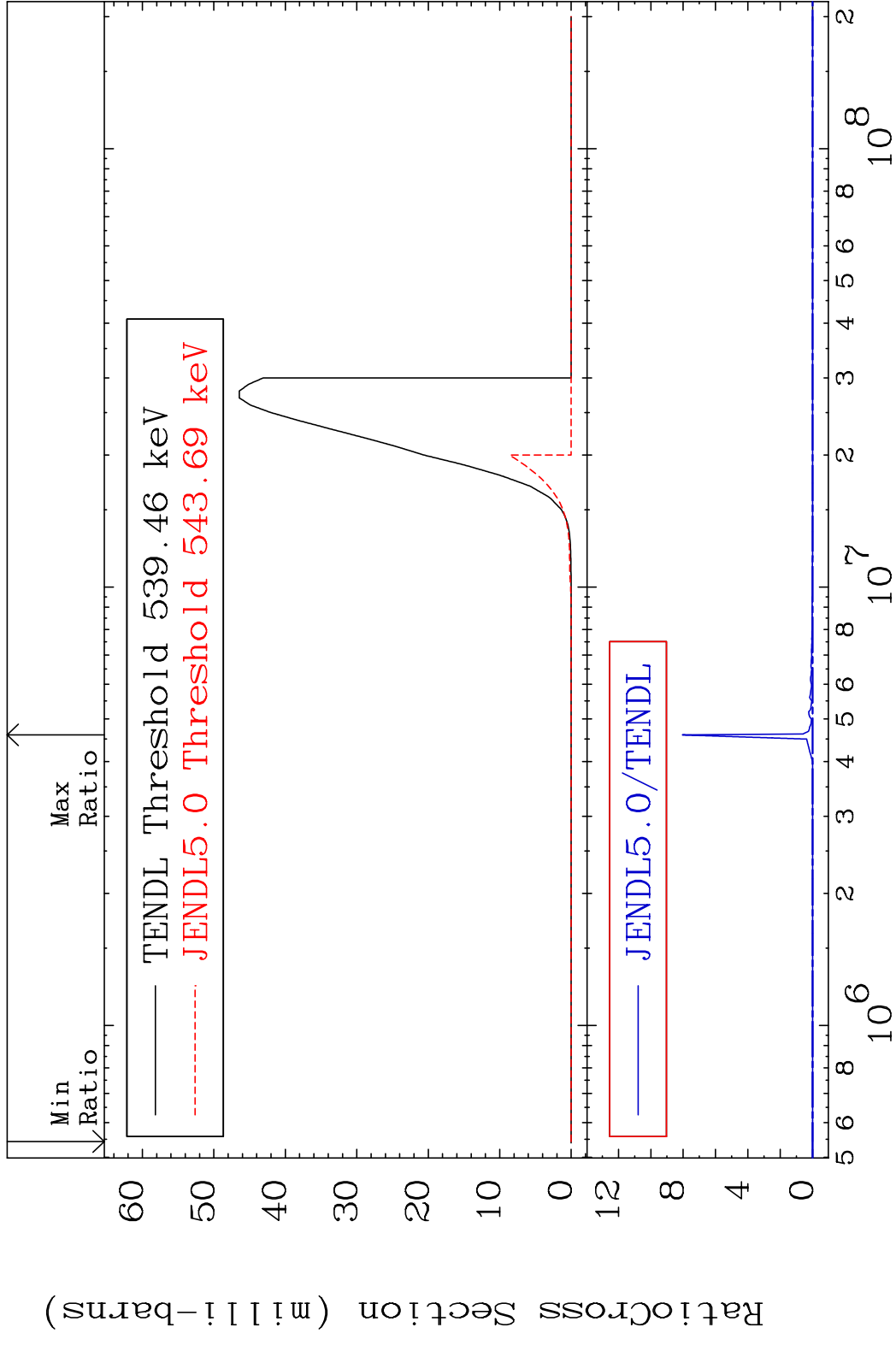


5 Incident Energy (eV) 56-Ba-130

MAT 5625 (n,3n) 56-Ba-130  
 Cross Section -100.0 To 149.5 %



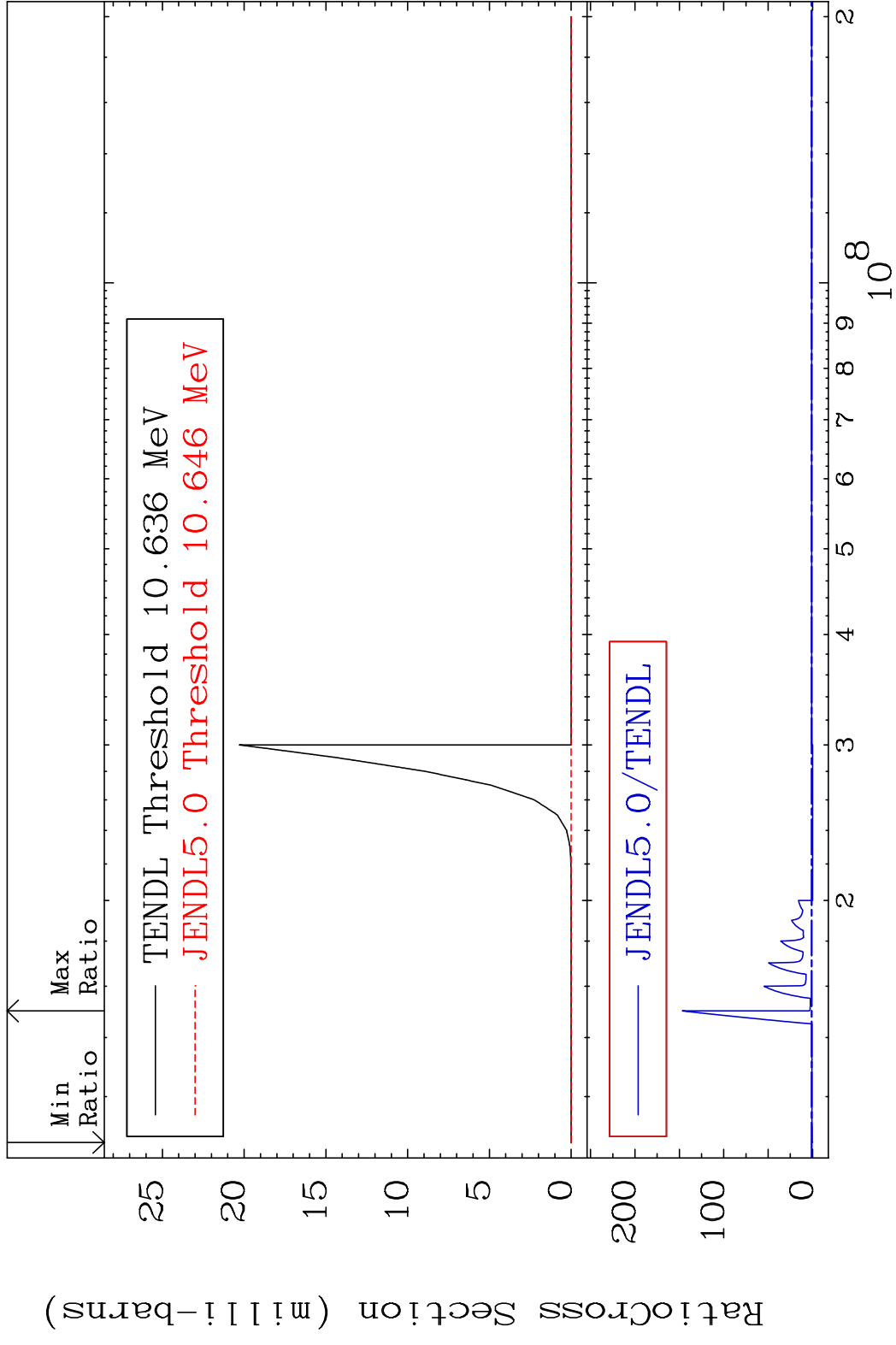
MAT 5625 (n, n')  $\alpha$  56-Ba-130  
 Cross Section -100.0 To 9999. %



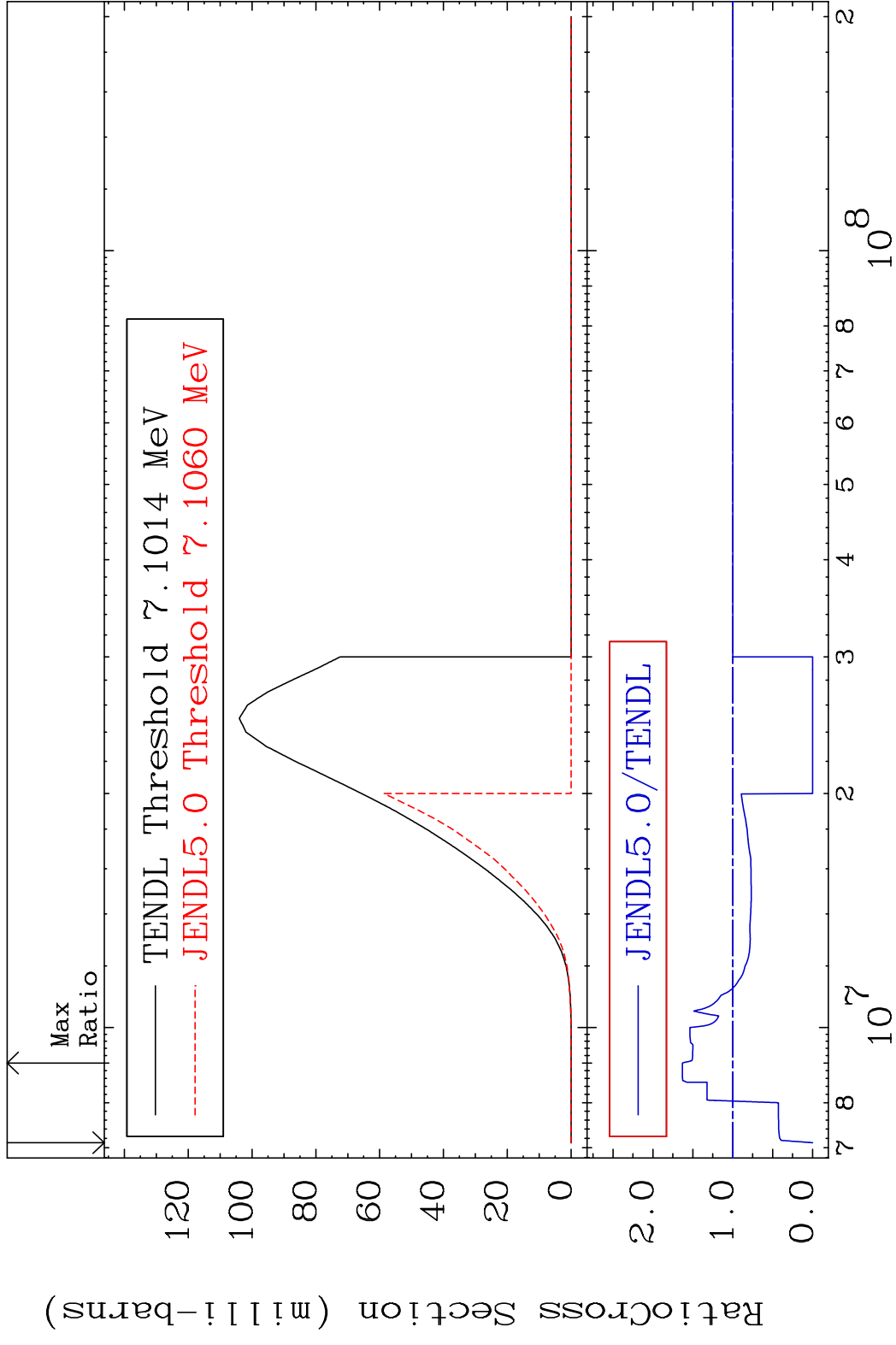
7 Incident Energy (eV) 56-Ba-130



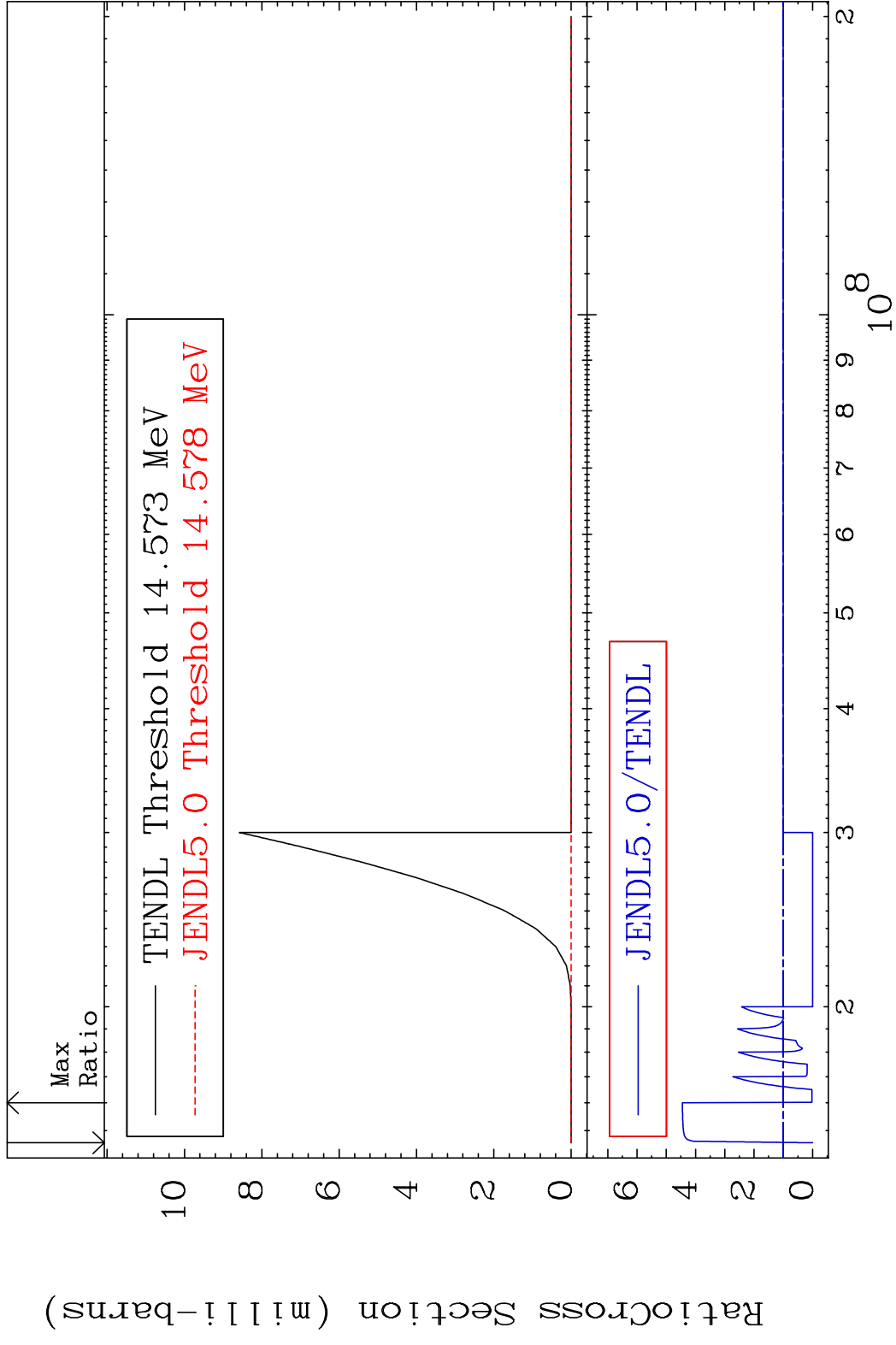
MAT 5625 (n,2n)  $\alpha$  56-Ba-130  
 Cross Section -100.0 To 9999. %



MAT 5625 (n, n') p 56-Ba-130  
 Cross Section -100.0 To 63.09 %

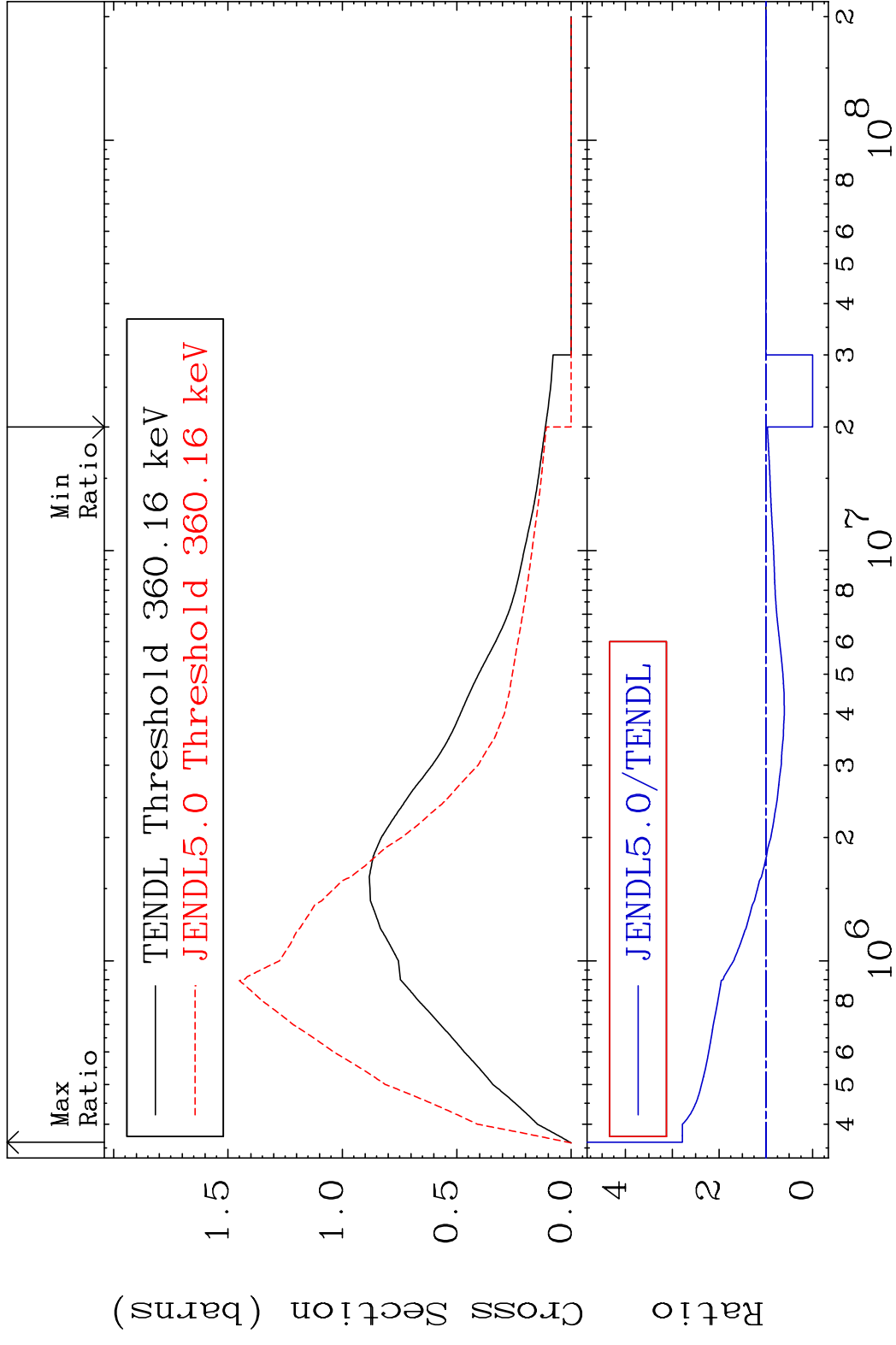


MAT 5625 (n, n') d 56-Ba-130  
 Cross Section -100.0 To 345.0 %

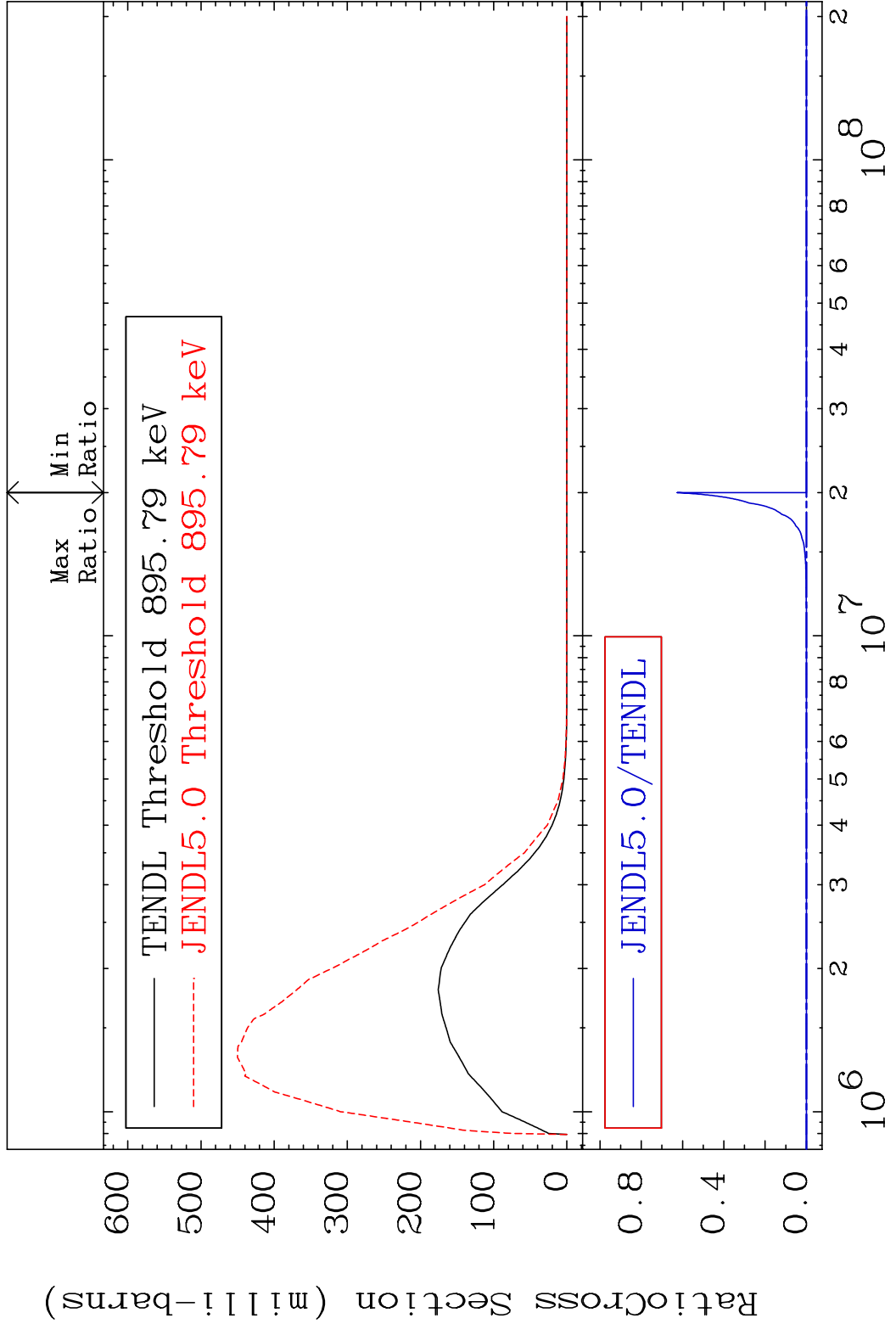


10 56-Ba-130

MAT 5625 MT= 51 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 178.4 %

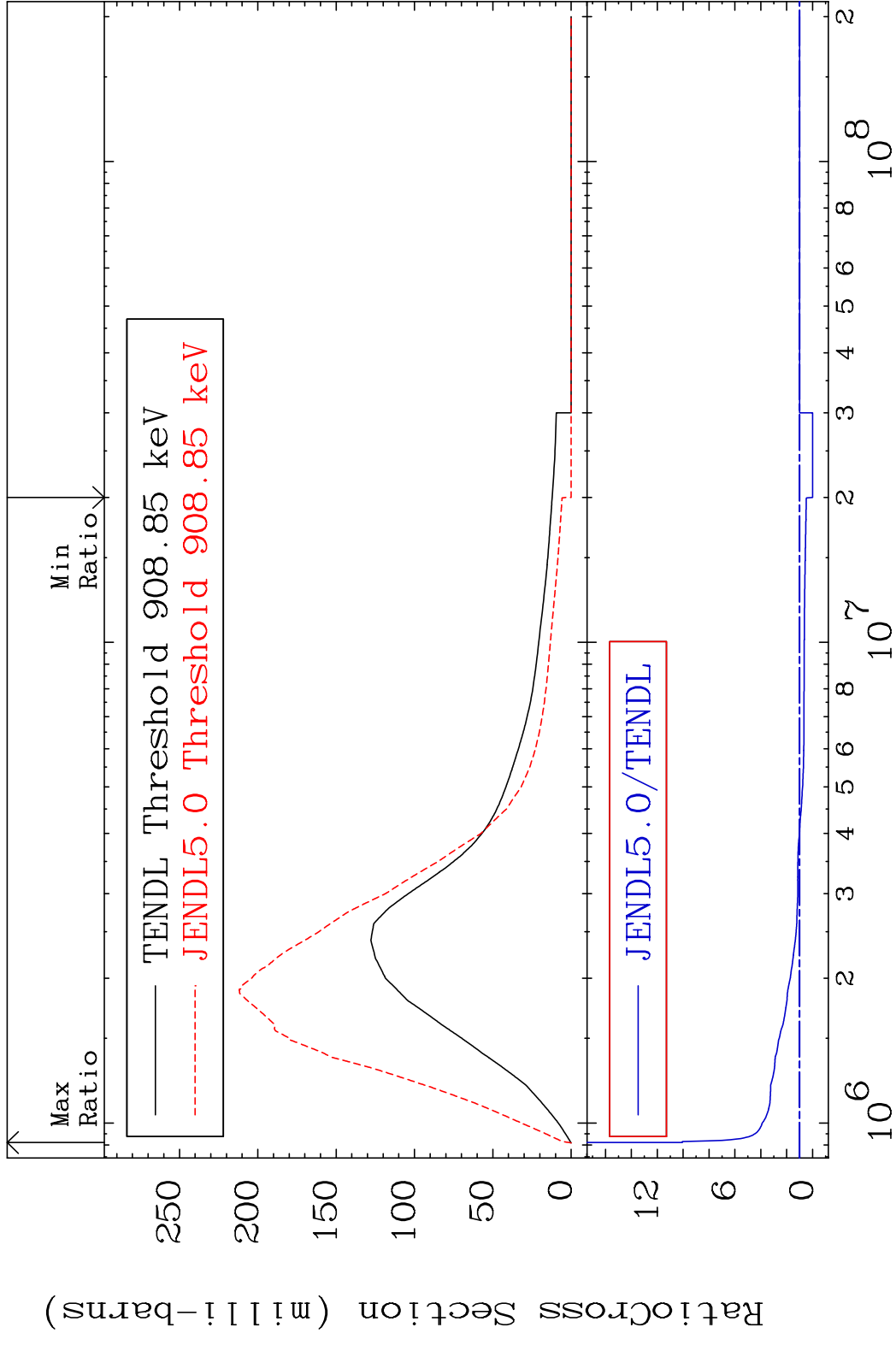


MAT 5625 MT= 52 (n, n') Level 56-Ba-130  
Cross Section -100.0 To 9999. %



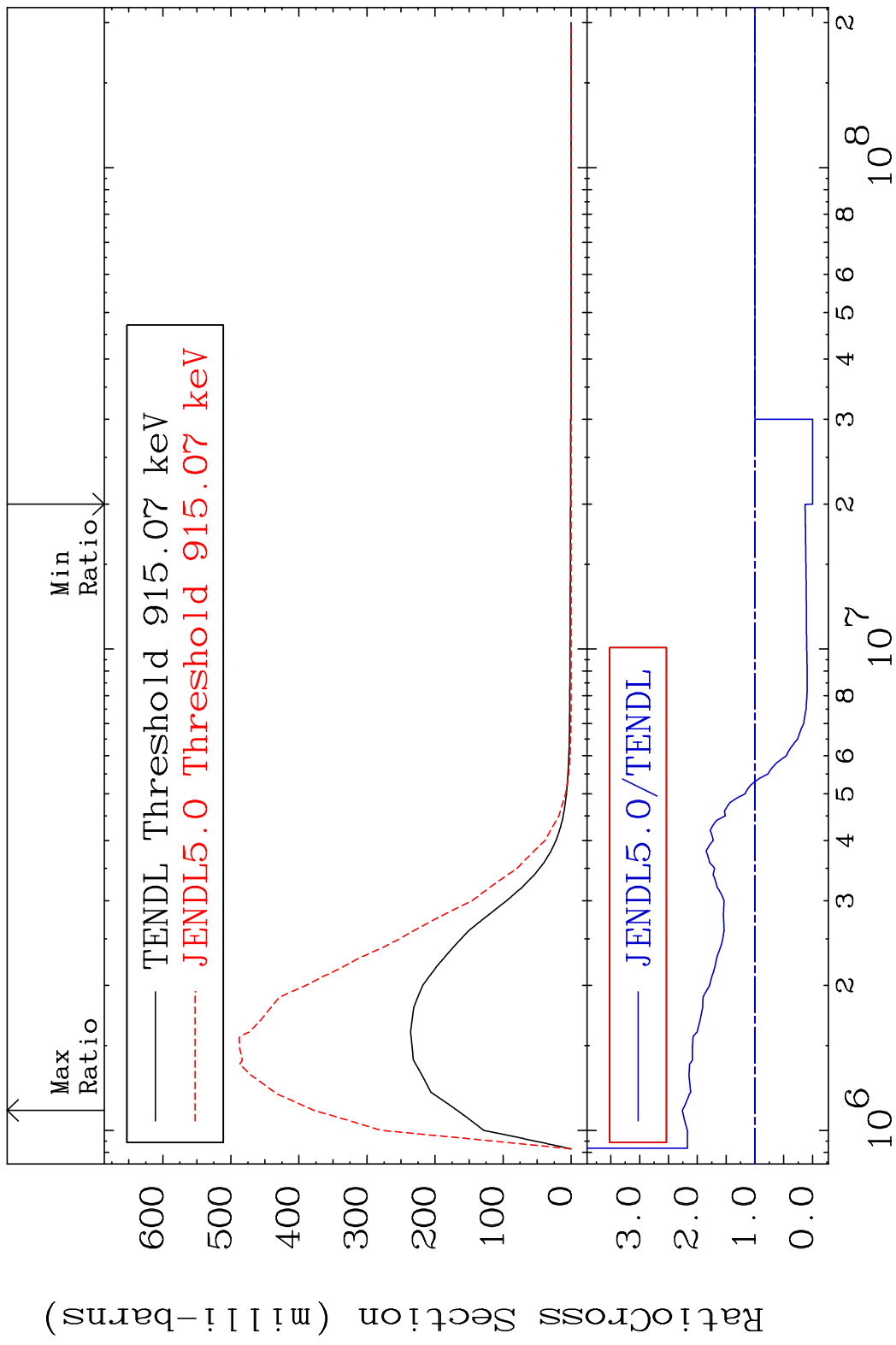
12 Incident Energy (eV) 56-Ba-130

MAT 5625 MT= 53 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 906.1 %



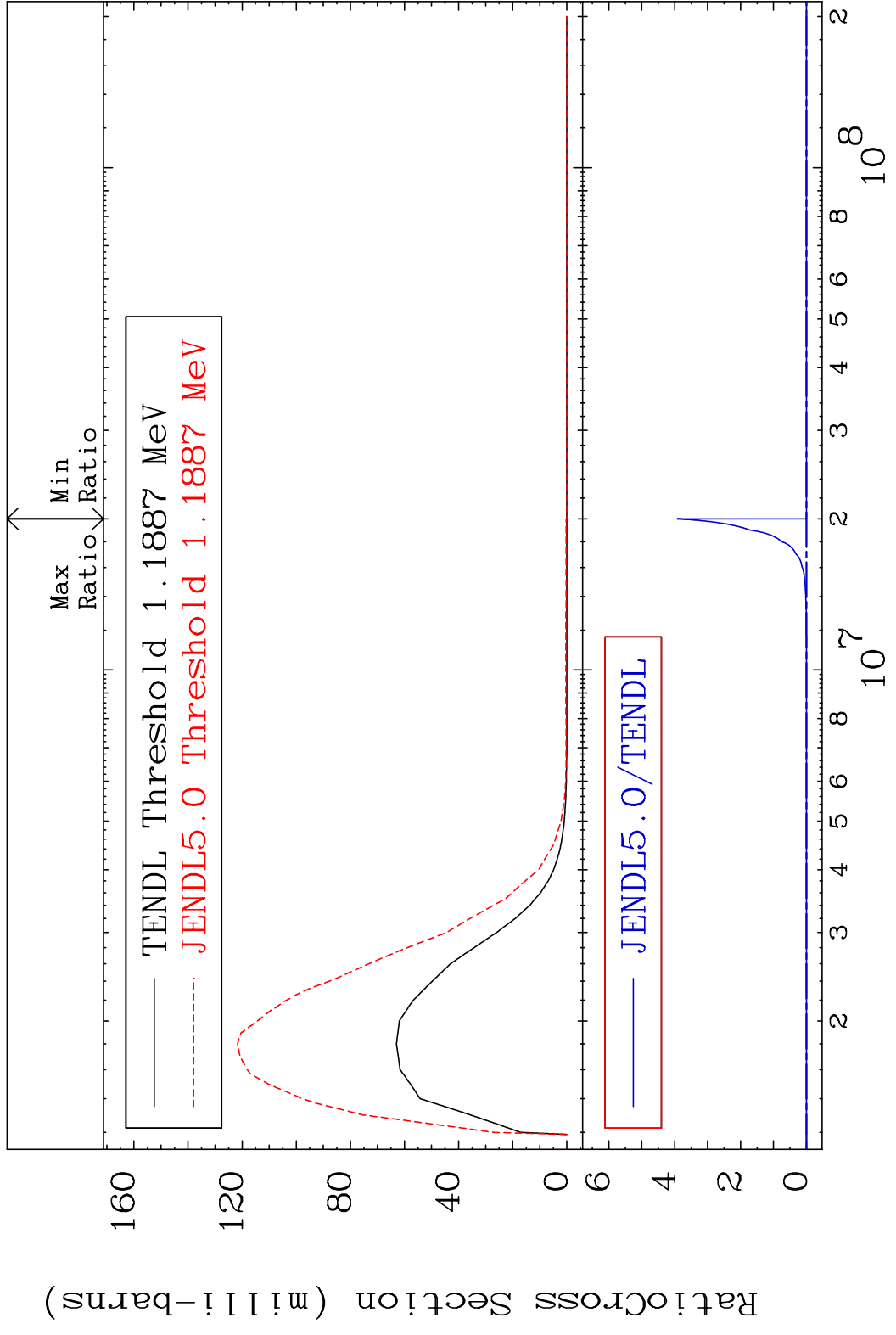
13 56-Ba-130

MAT 5625 MT= 54 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 125.9 %



14 Incident Energy (eV) 56-Ba-130

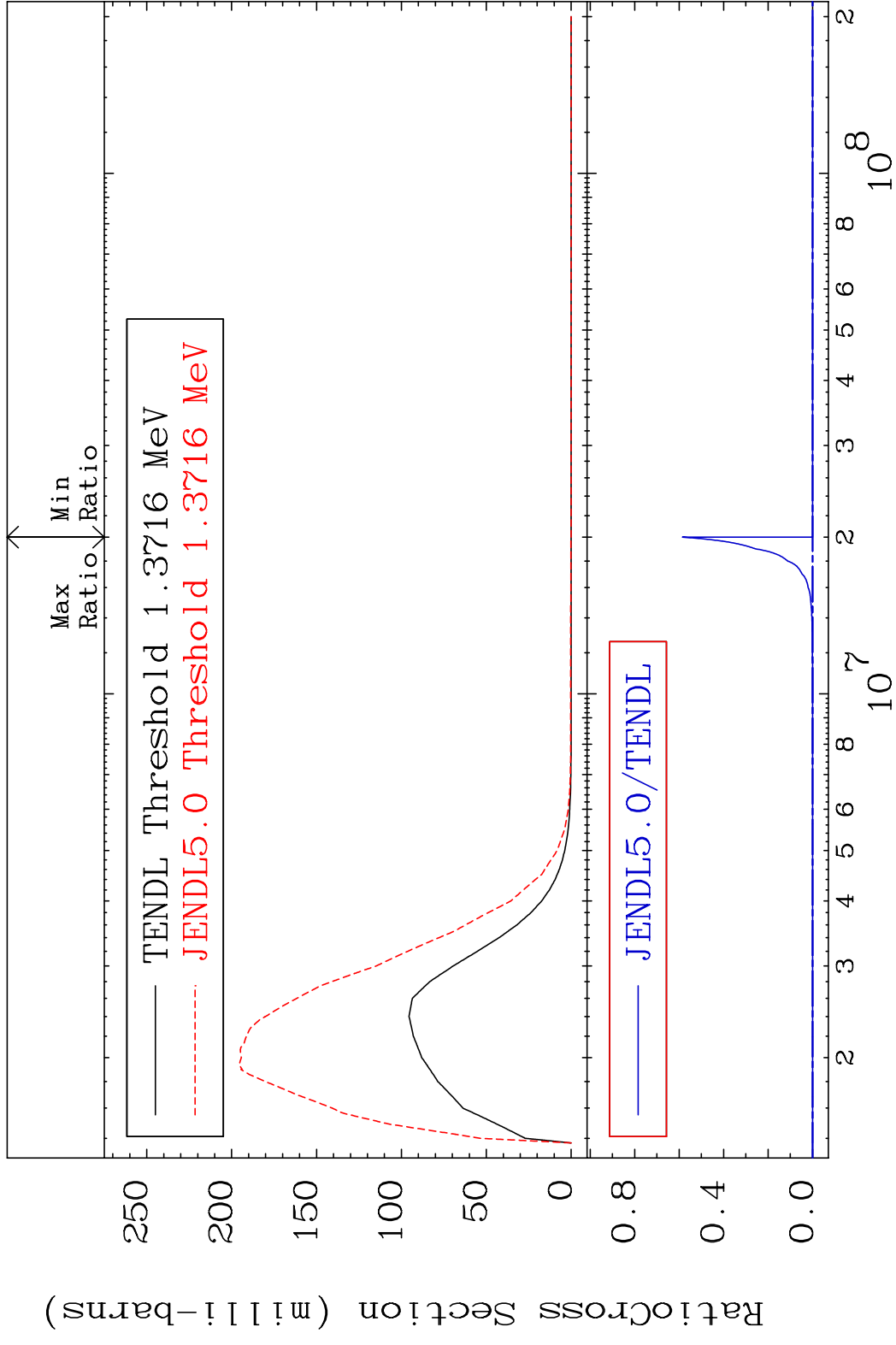
MAT 5625 MT= 55 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 9999. %



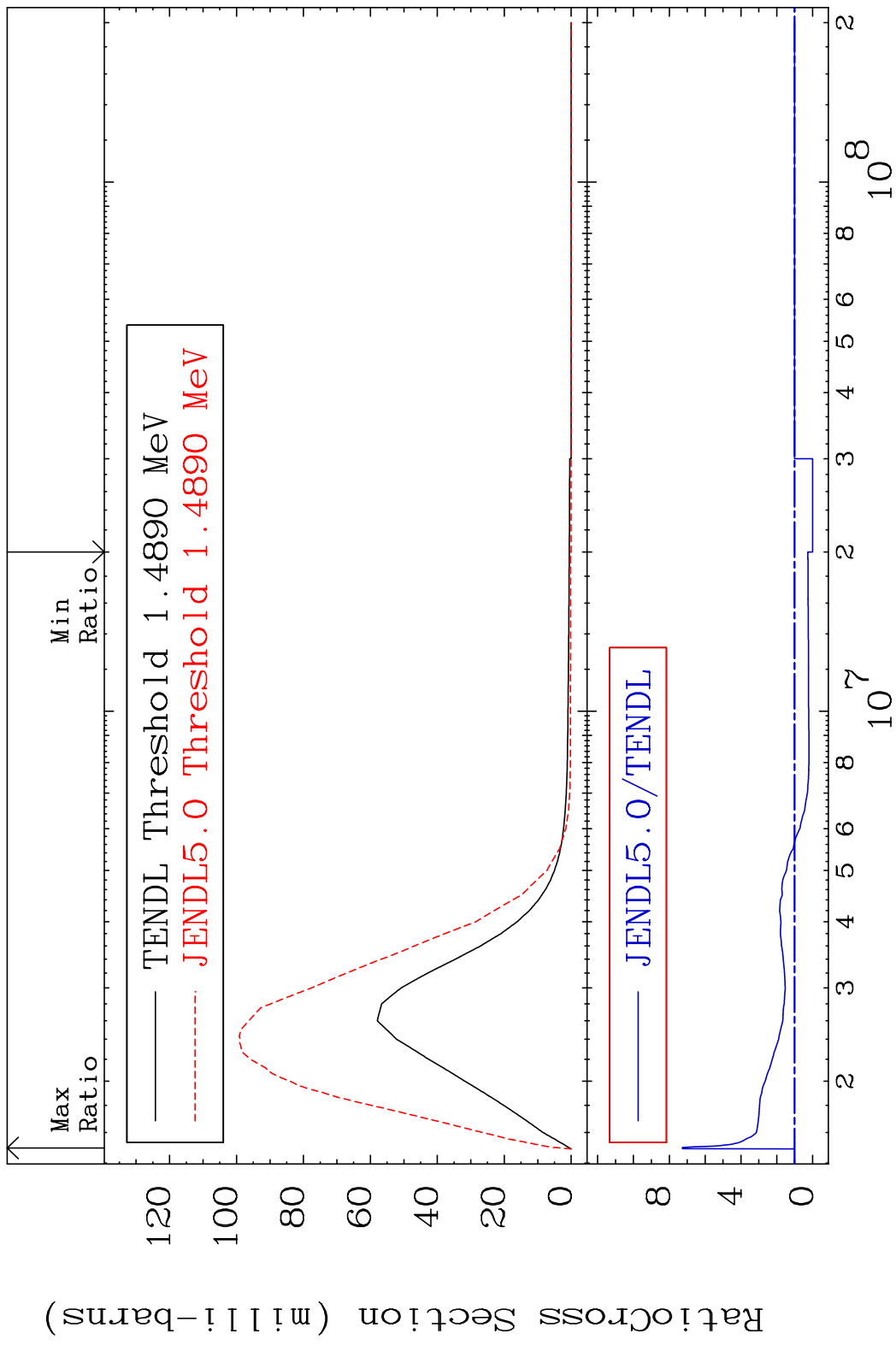
15 Incident Energy (eV) 56-Ba-130



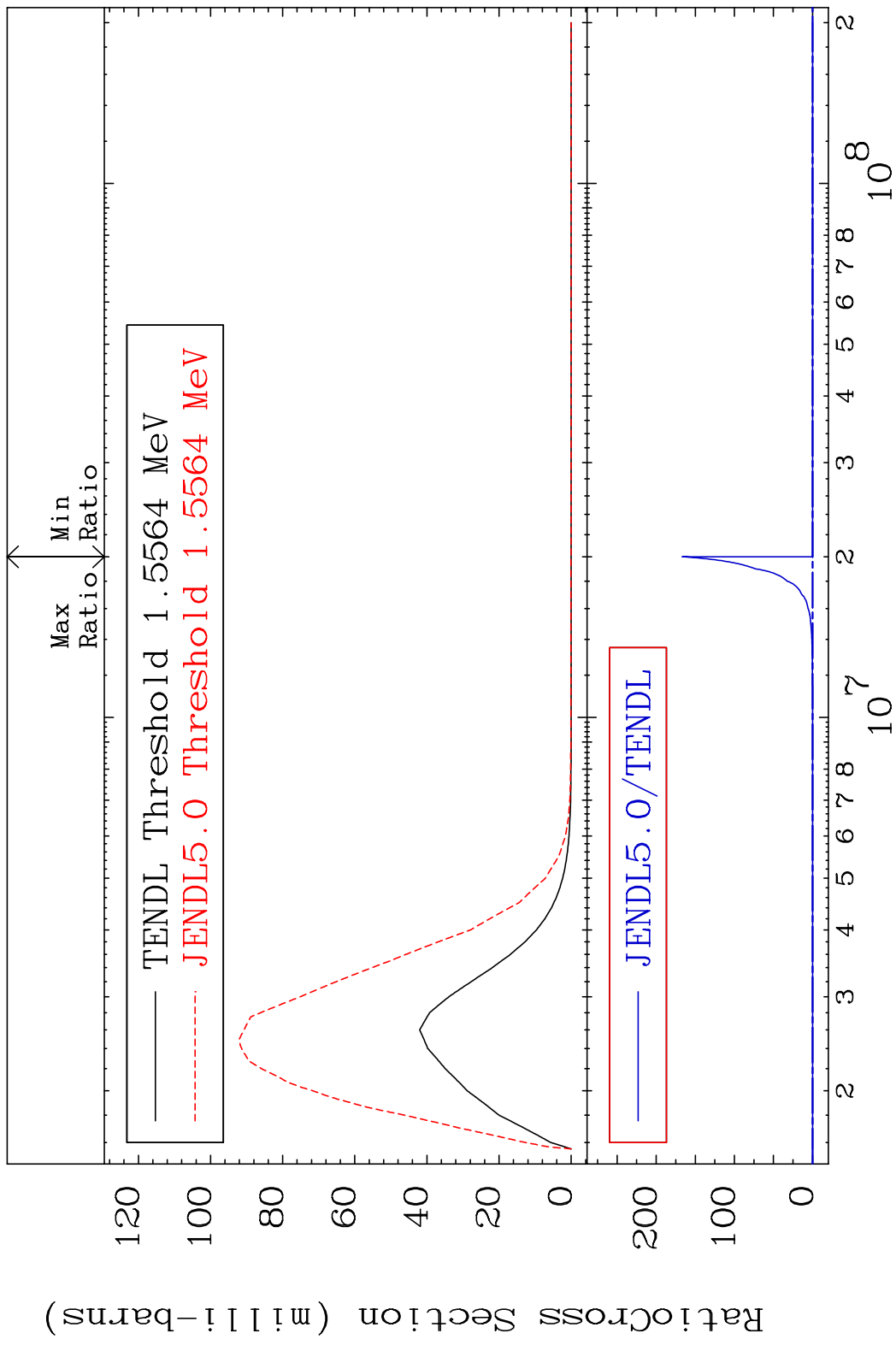
MAT 5625 MT= 56 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 9999. %



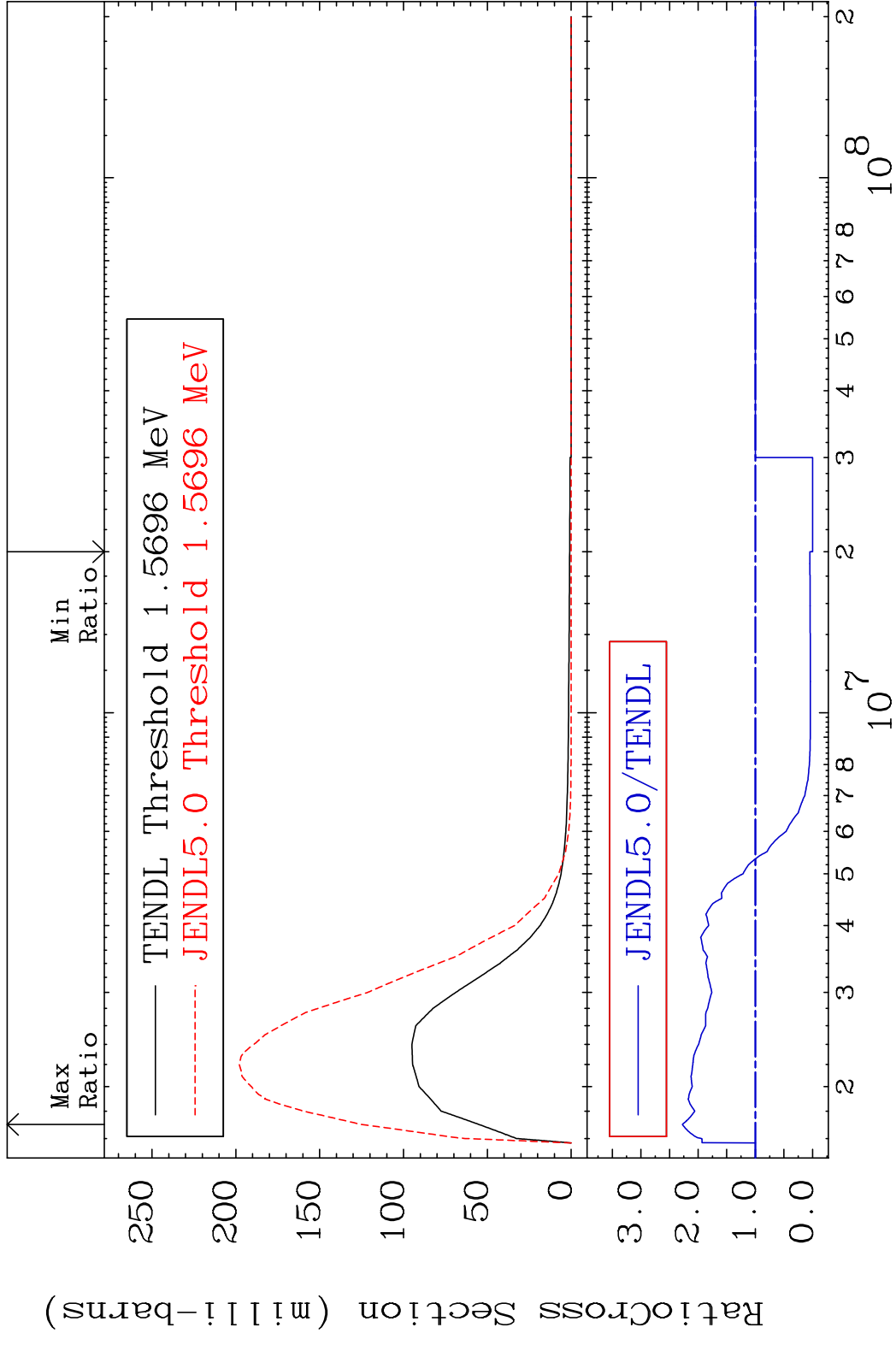
MAT 5625 MT= 57 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 627.0 %



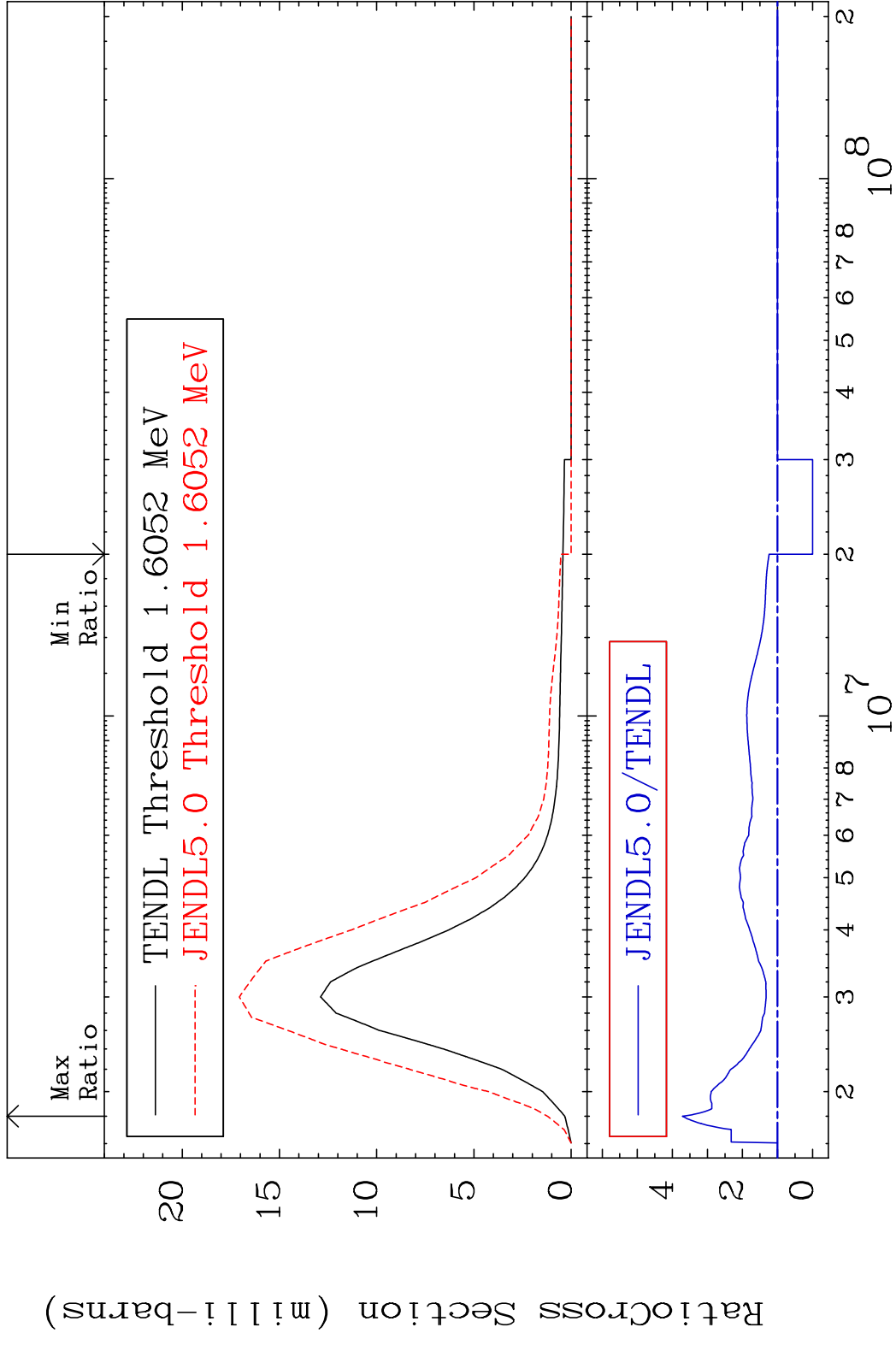
MAT 5625 MT= 58 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 9999. %



MAT 5625 MT= 59 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 127.6 %

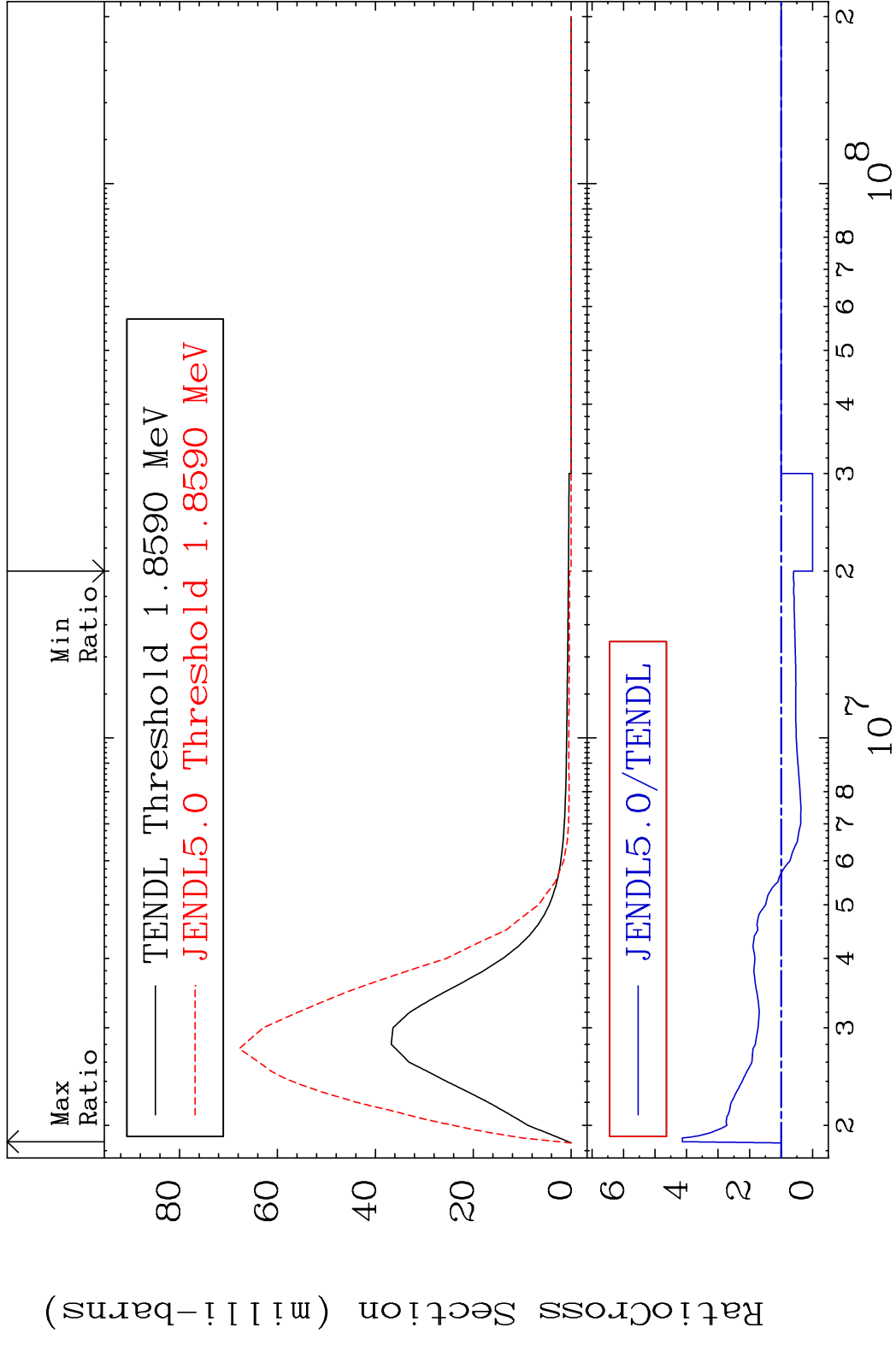


MAT 5625 MT= 60 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 271.5 %

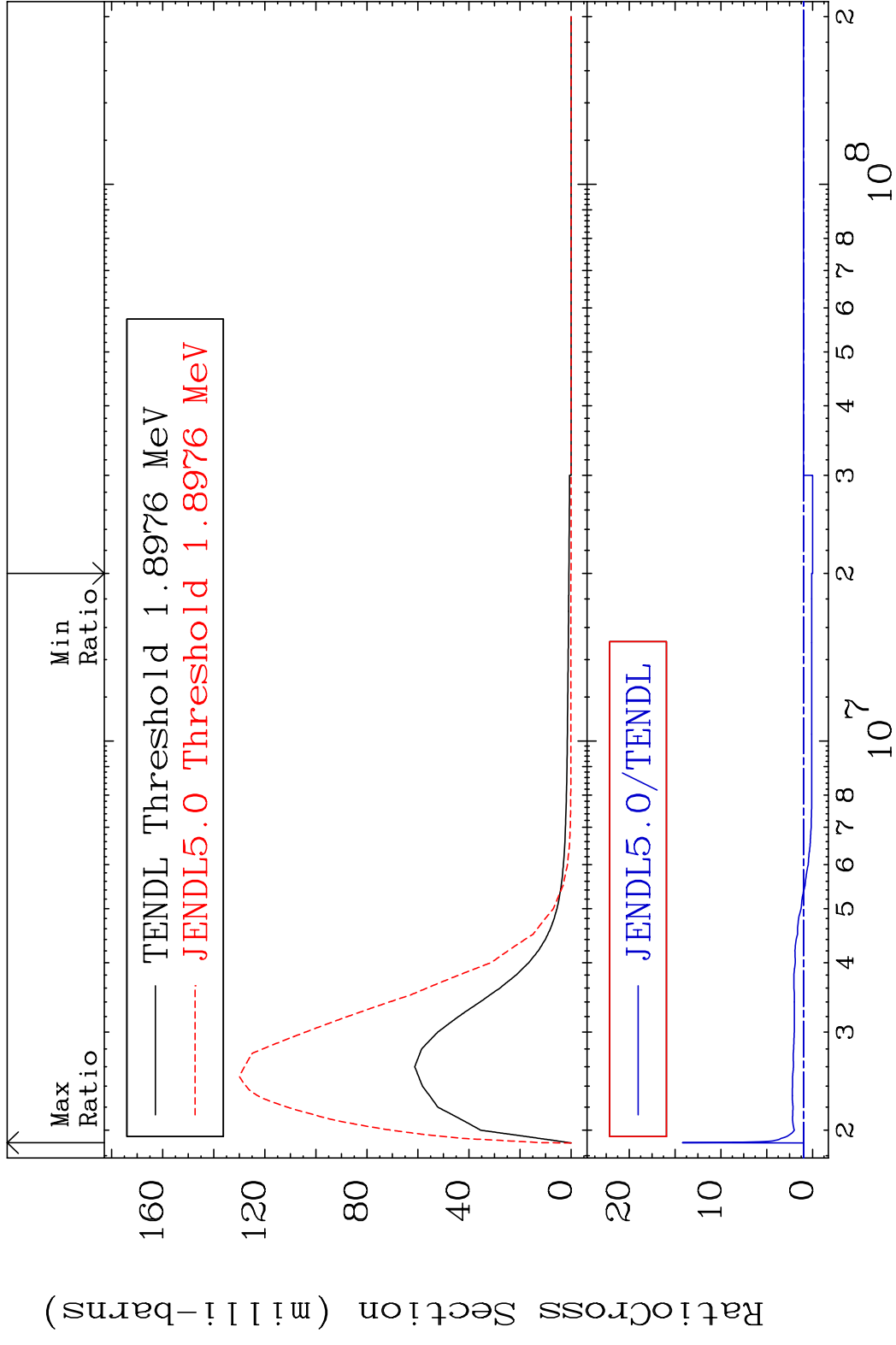


20 56-Ba-130

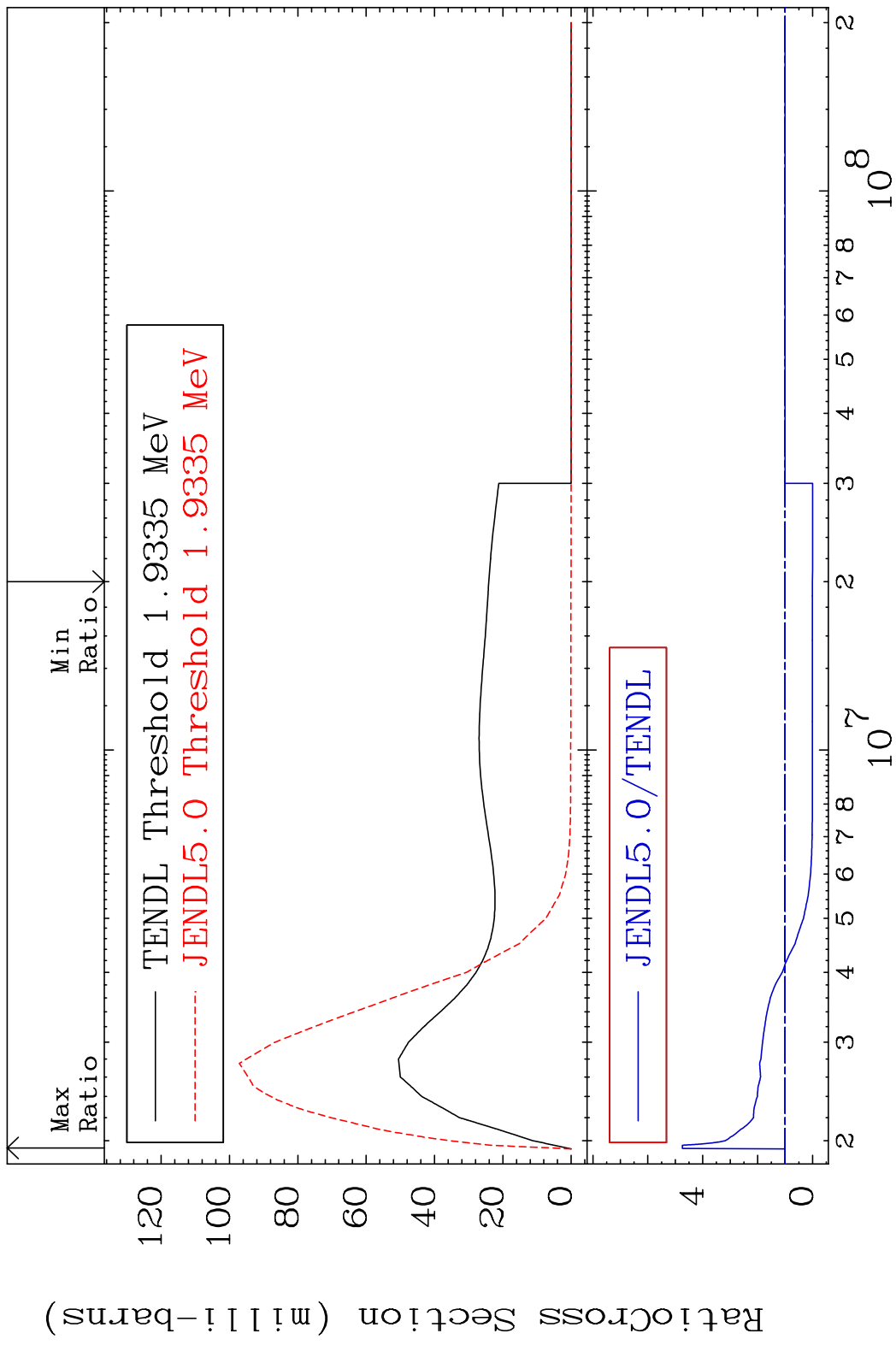
MAT 5625 MT= 61 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 313.4 %



MAT 5625 MT= 62 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 1320. %

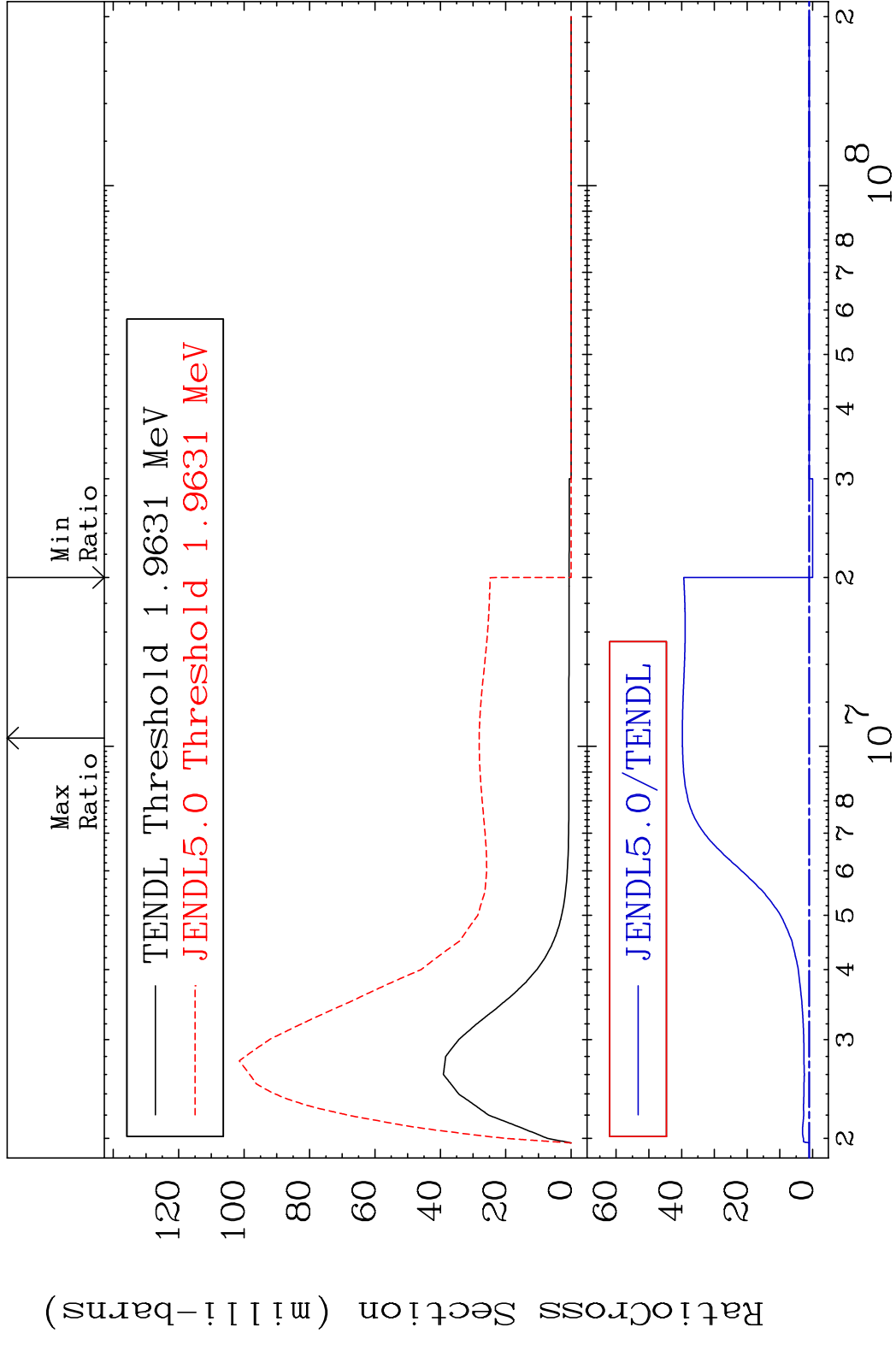


MAT 5625 MT= 63 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 374.2 %

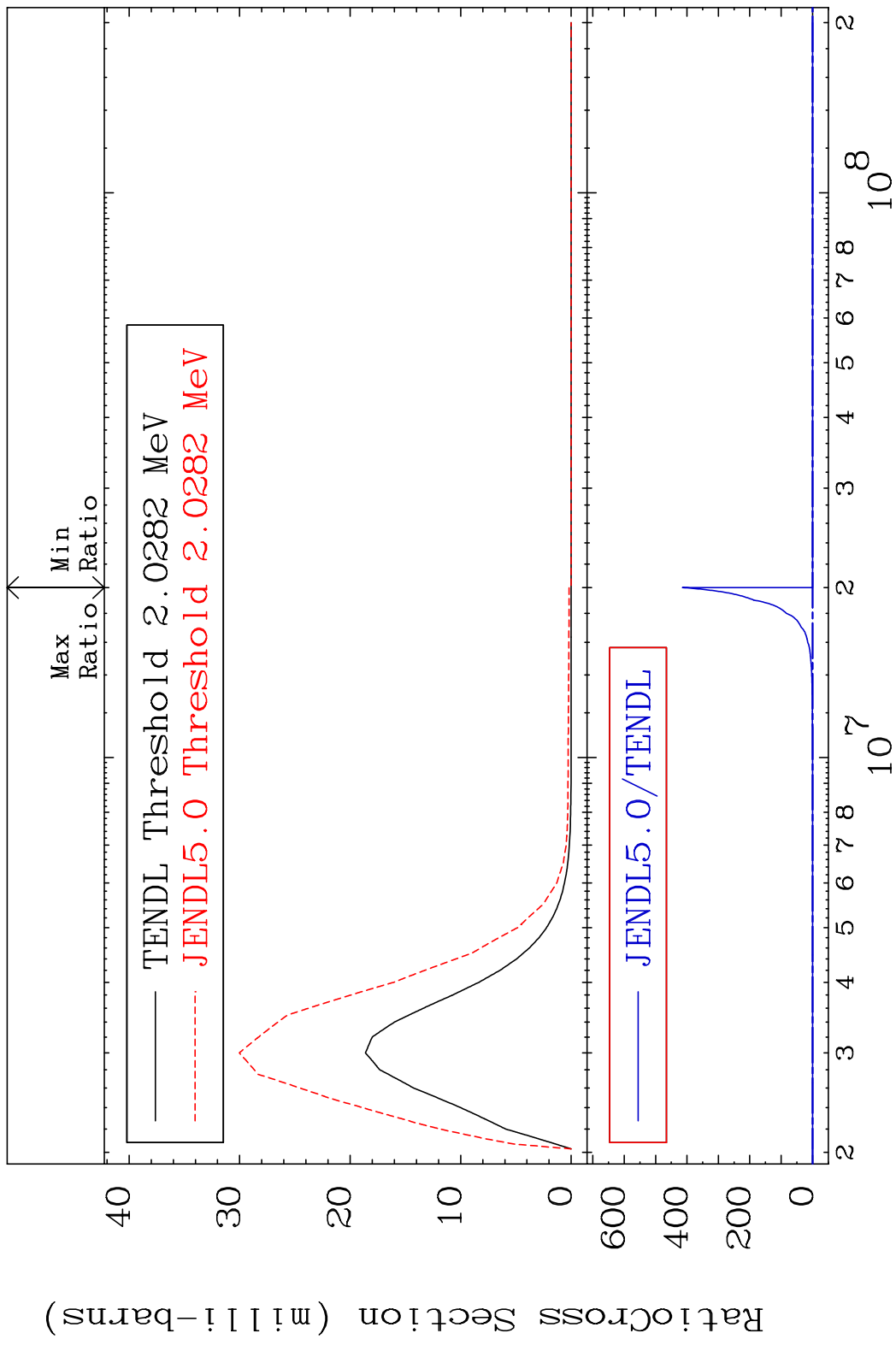




MAT 5625 MT= 64 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 3877. %

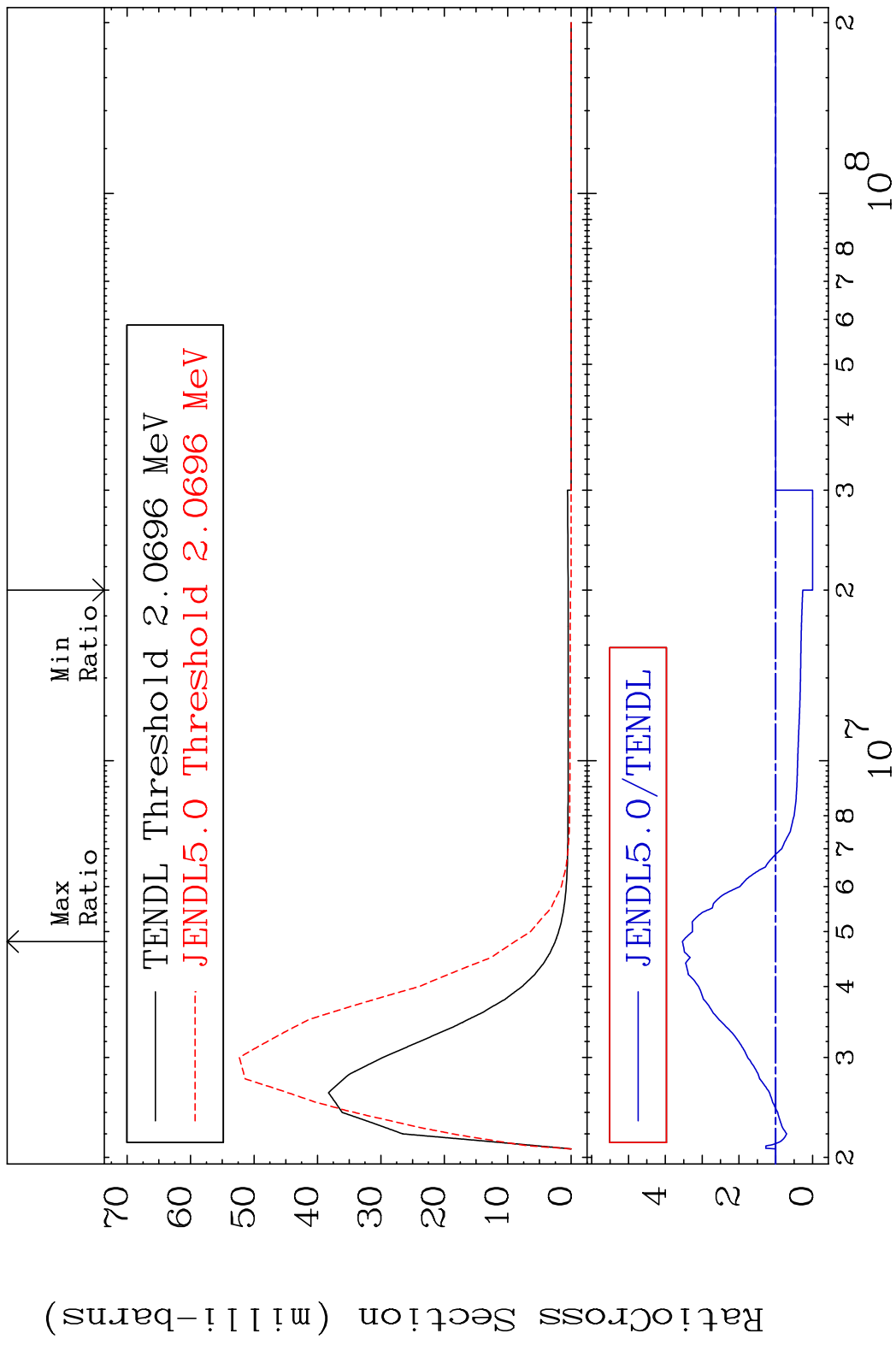


MAT 5625 MT= 65 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 9999. %

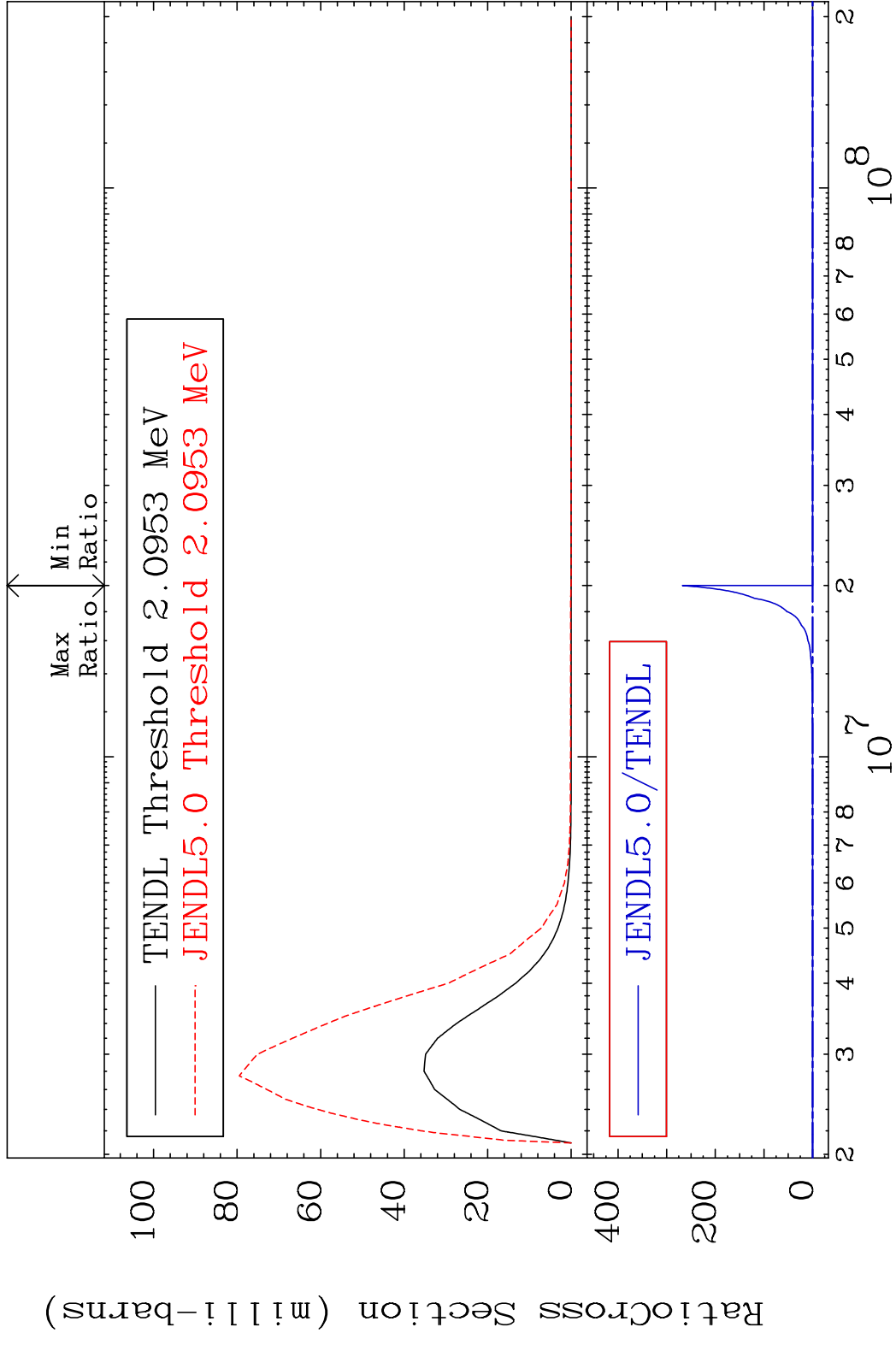


25 56-Ba-130

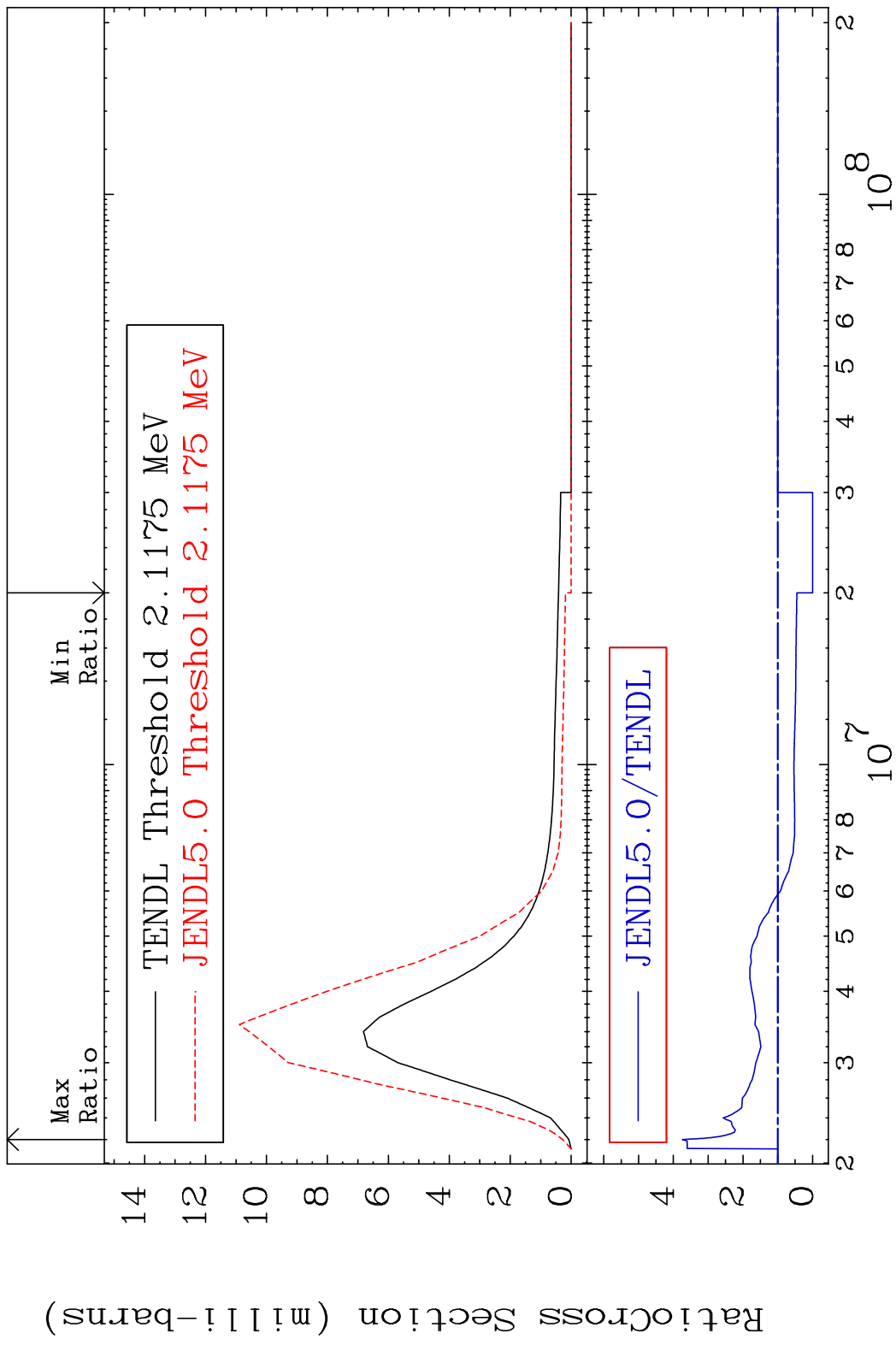
MAT 5625 MT= 66 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 253.7 %



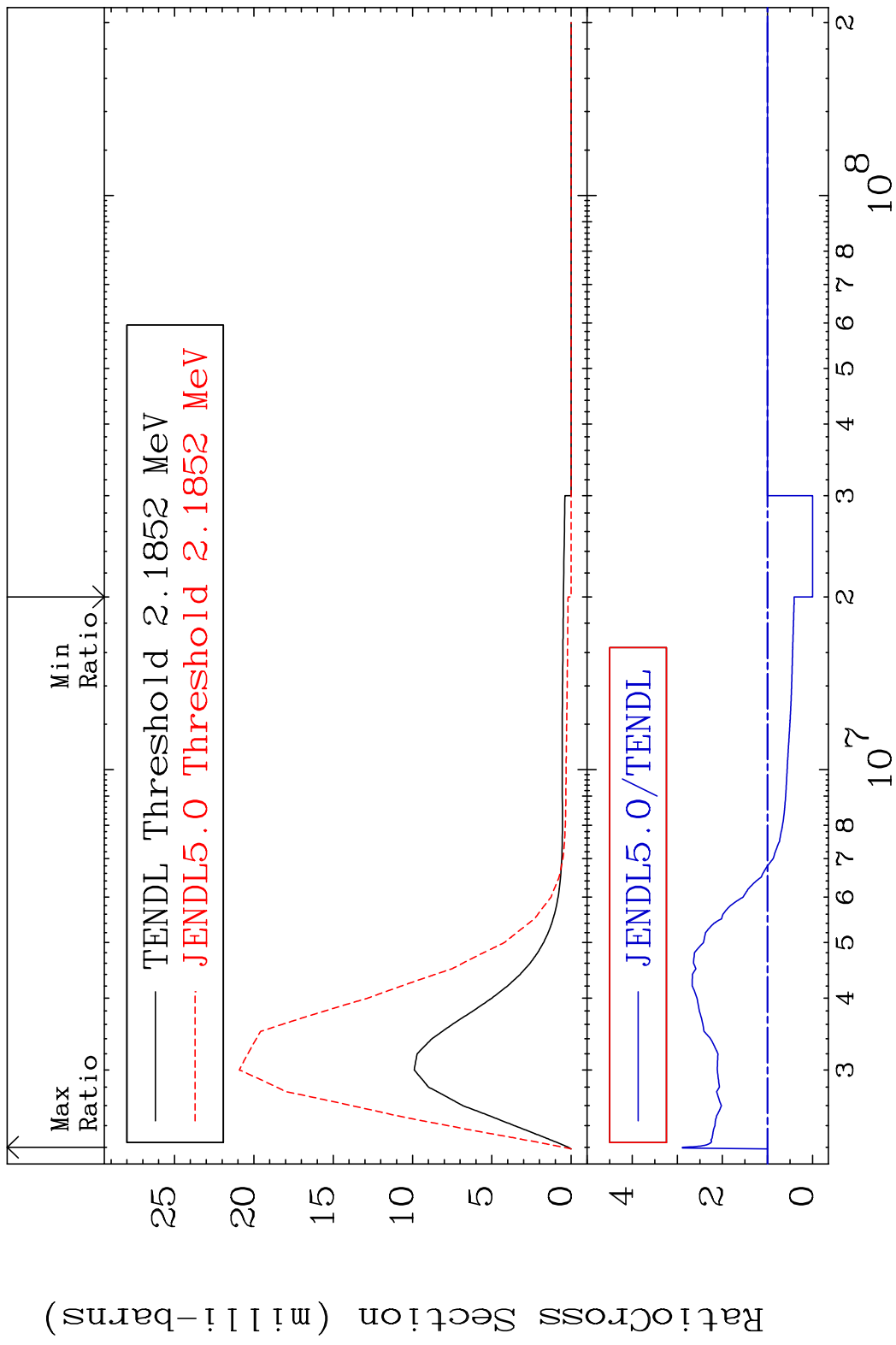
MAT 5625 MT= 67 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 9999. %



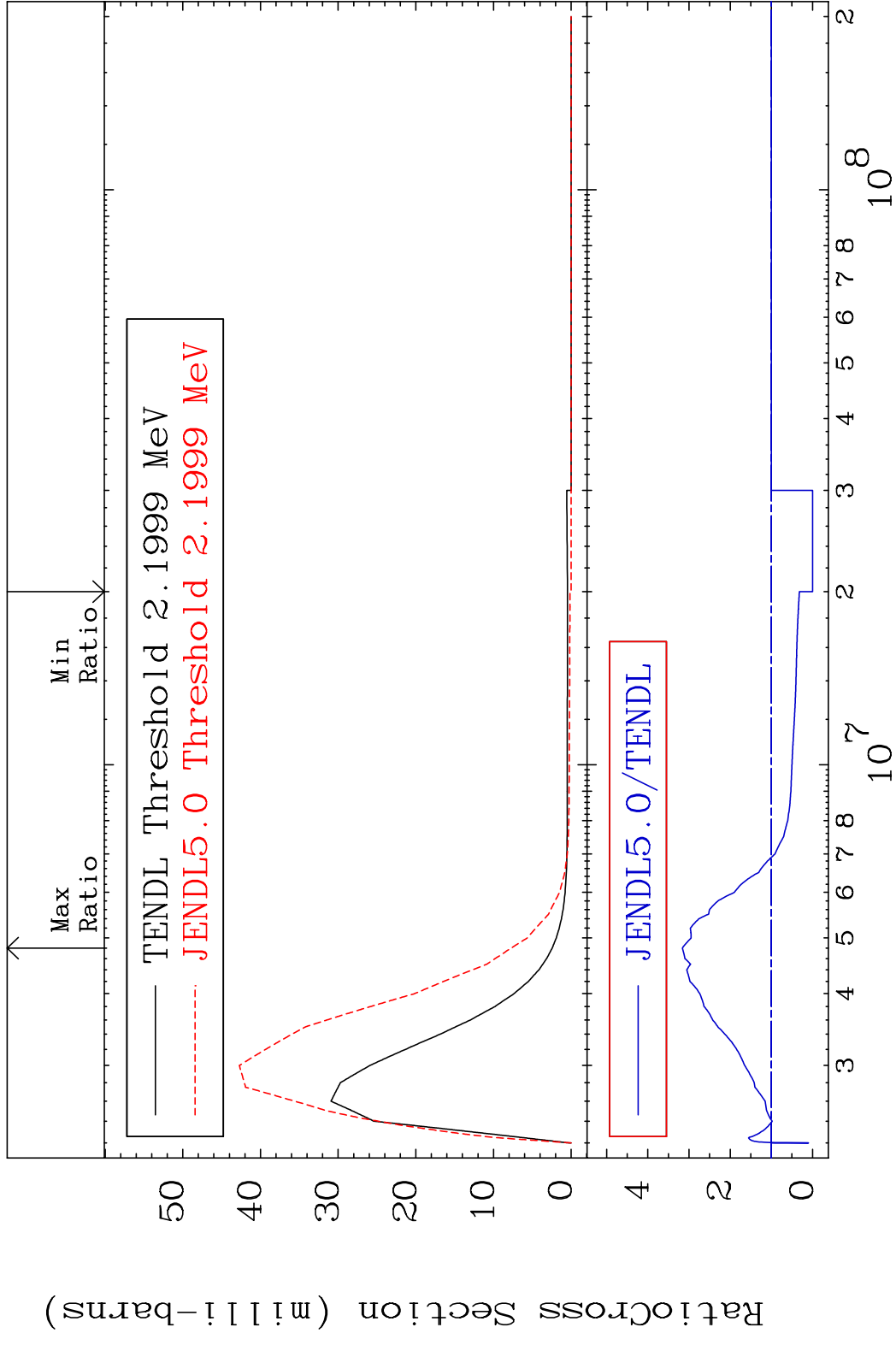
MAT 5625 MT= 68 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 274.2 %



MAT 5625 MT= 69 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 188.8 %

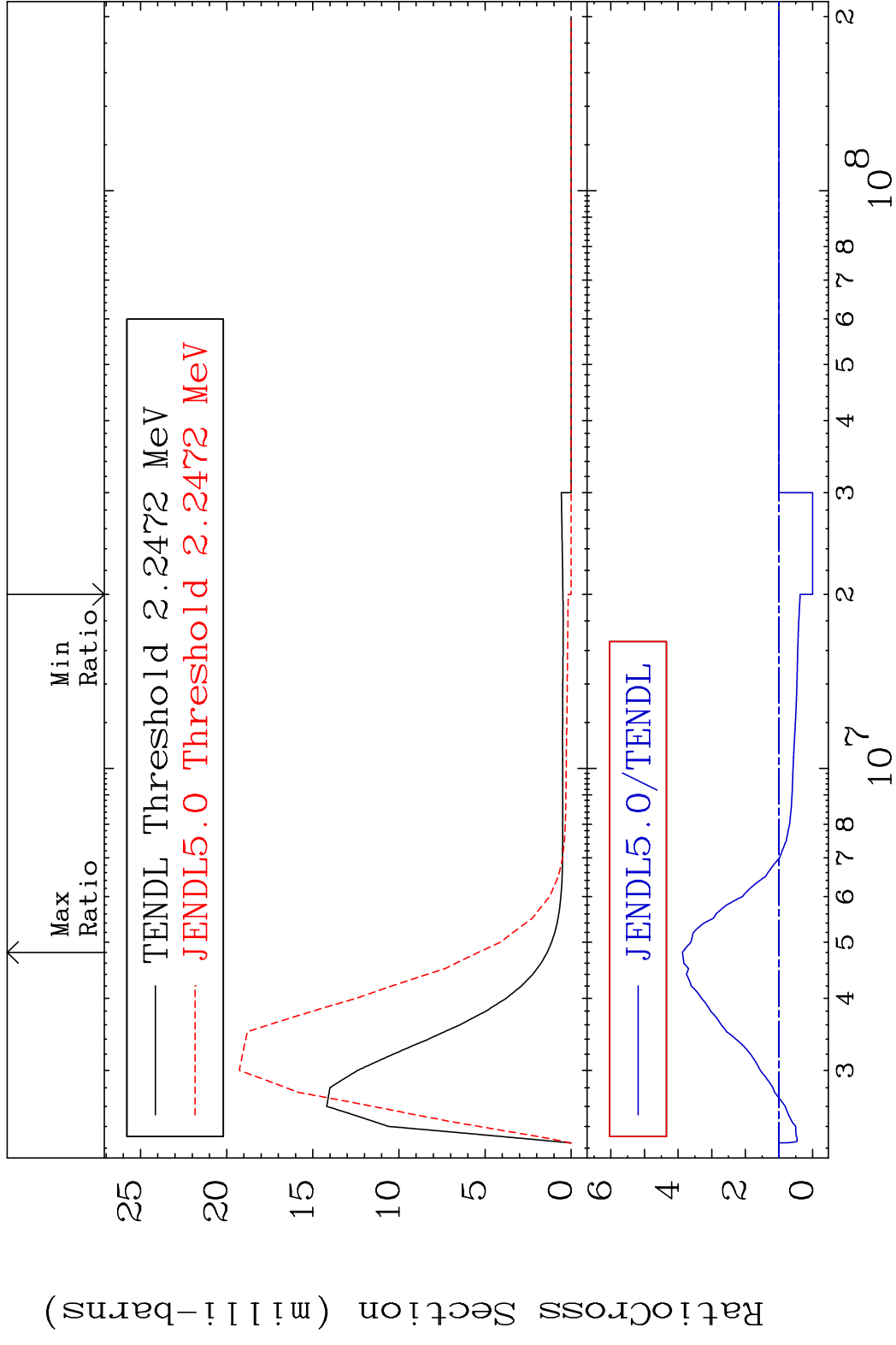


MAT 5625 MT= 70 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 216.1 %



30 56-Ba-130

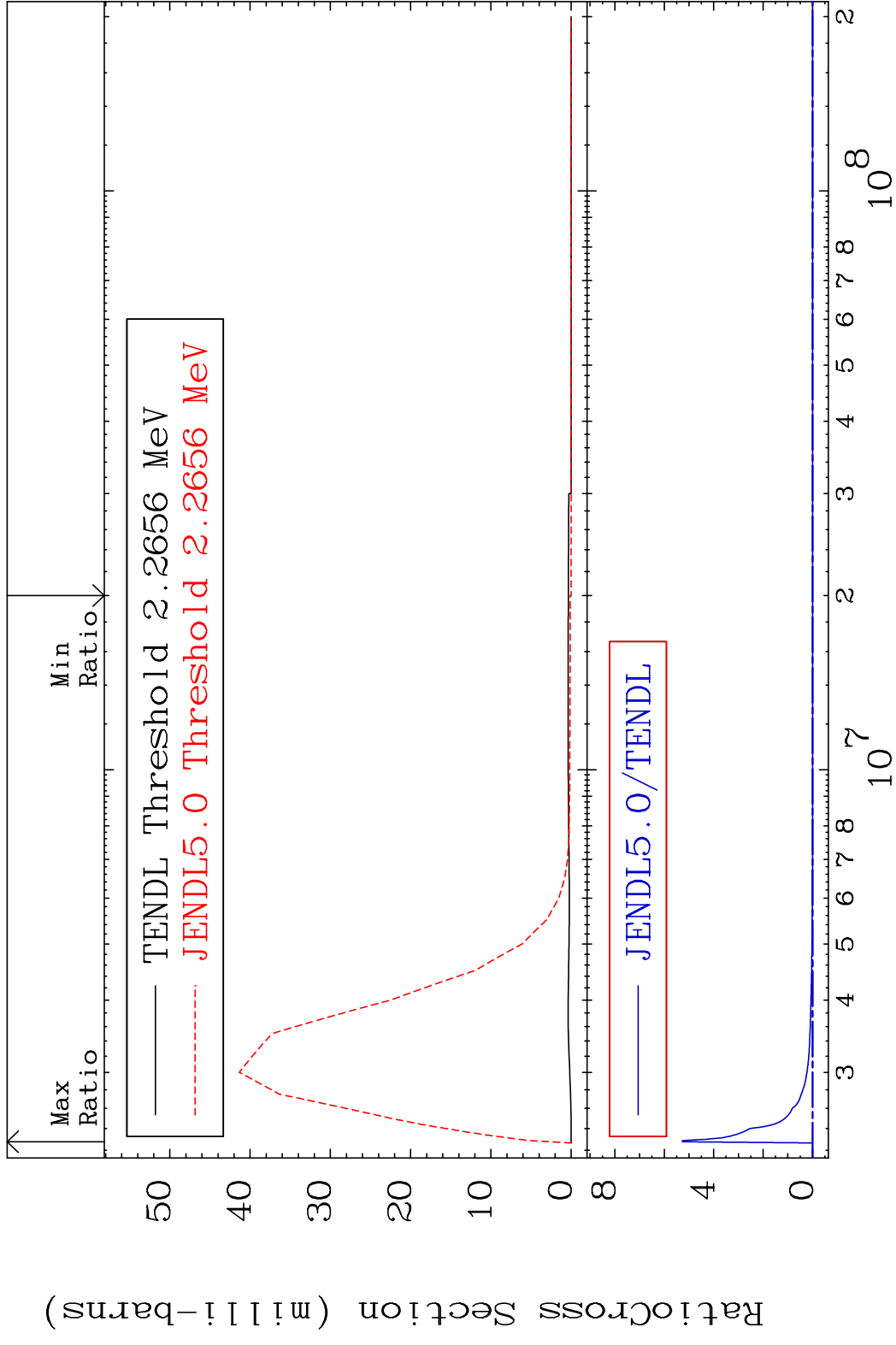
MAT 5625 MT= 71 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 287.4 %



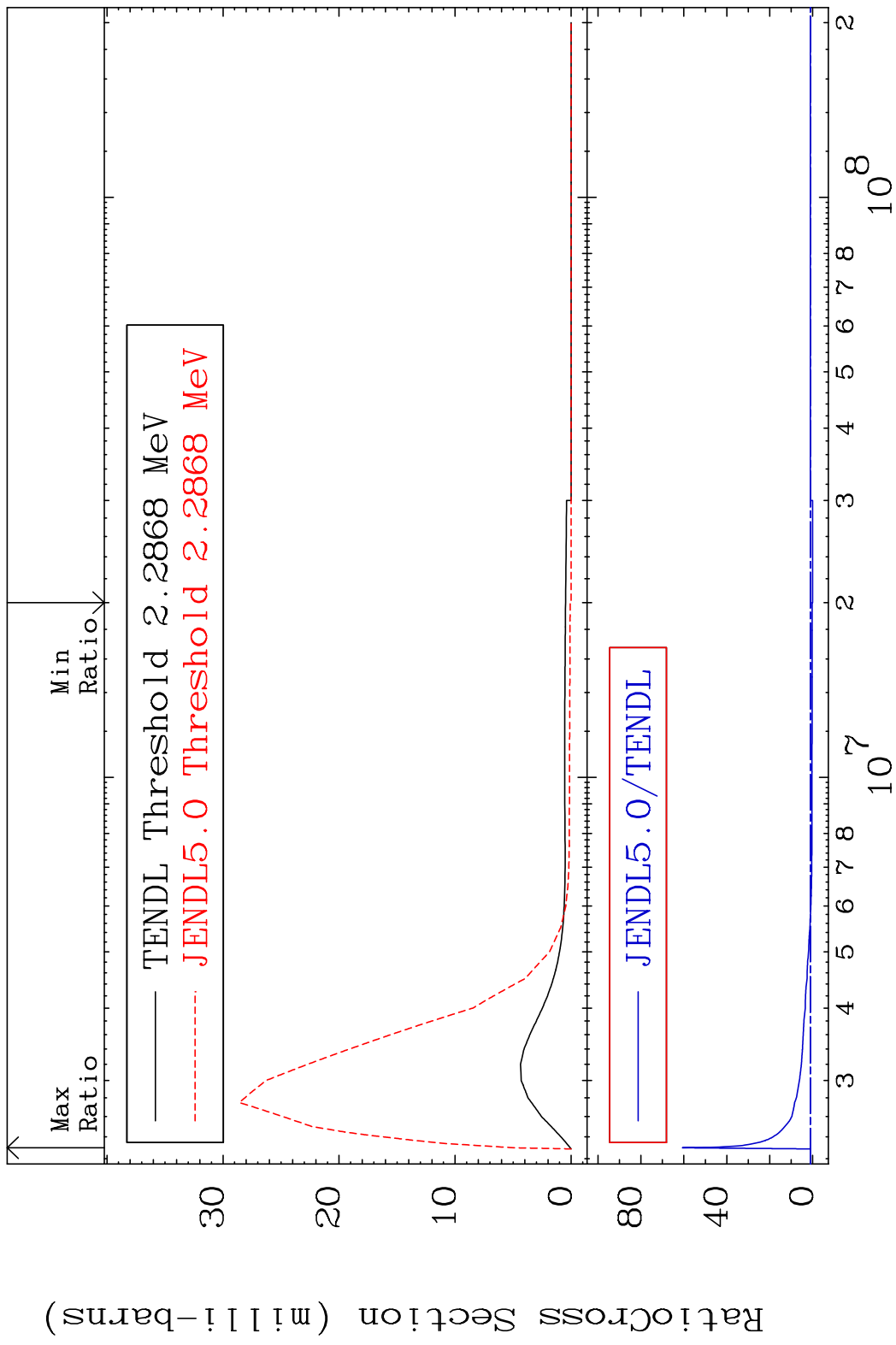
31 Incident Energy (eV) 56-Ba-130



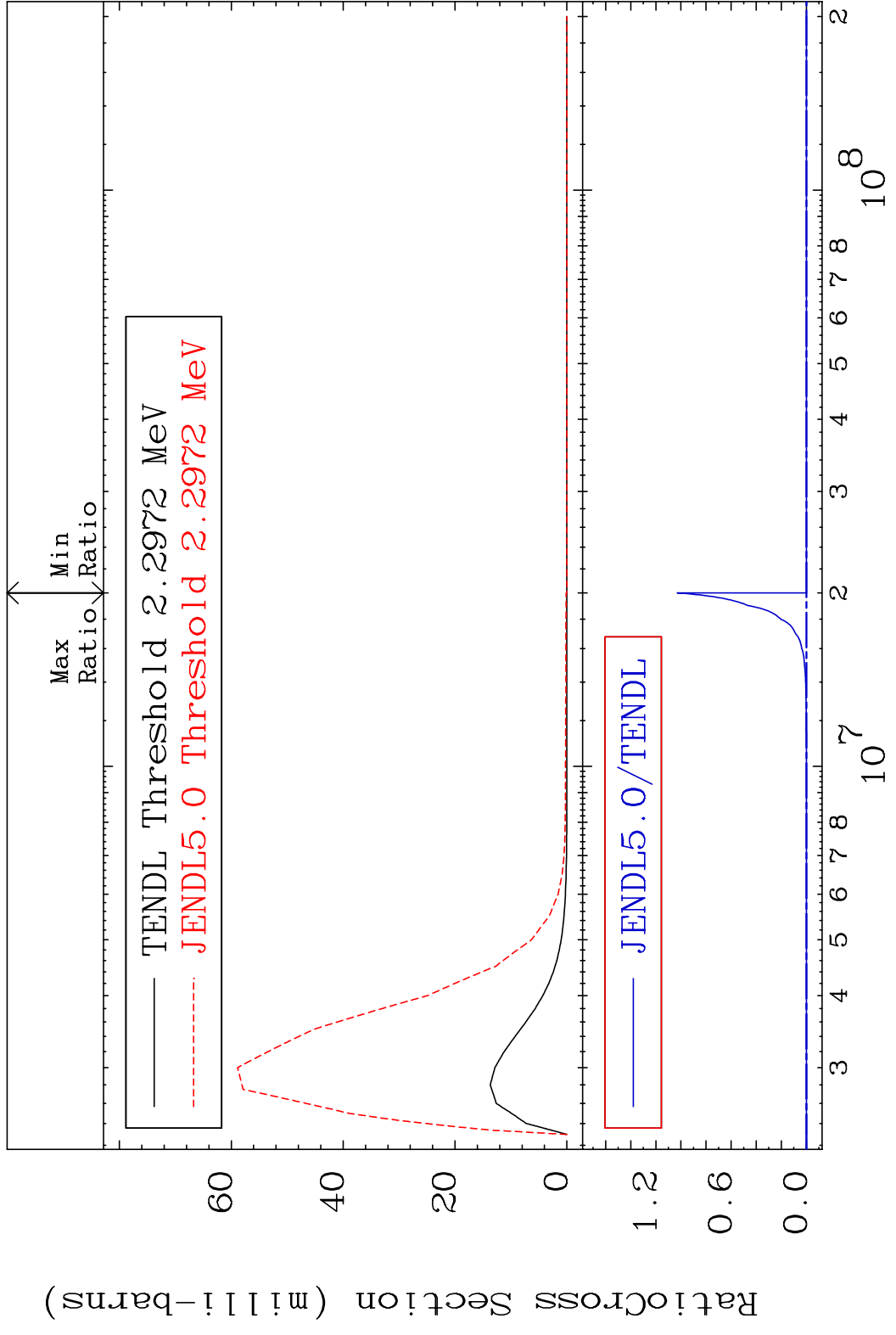
MAT 5625 MT= 72 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 9999. %



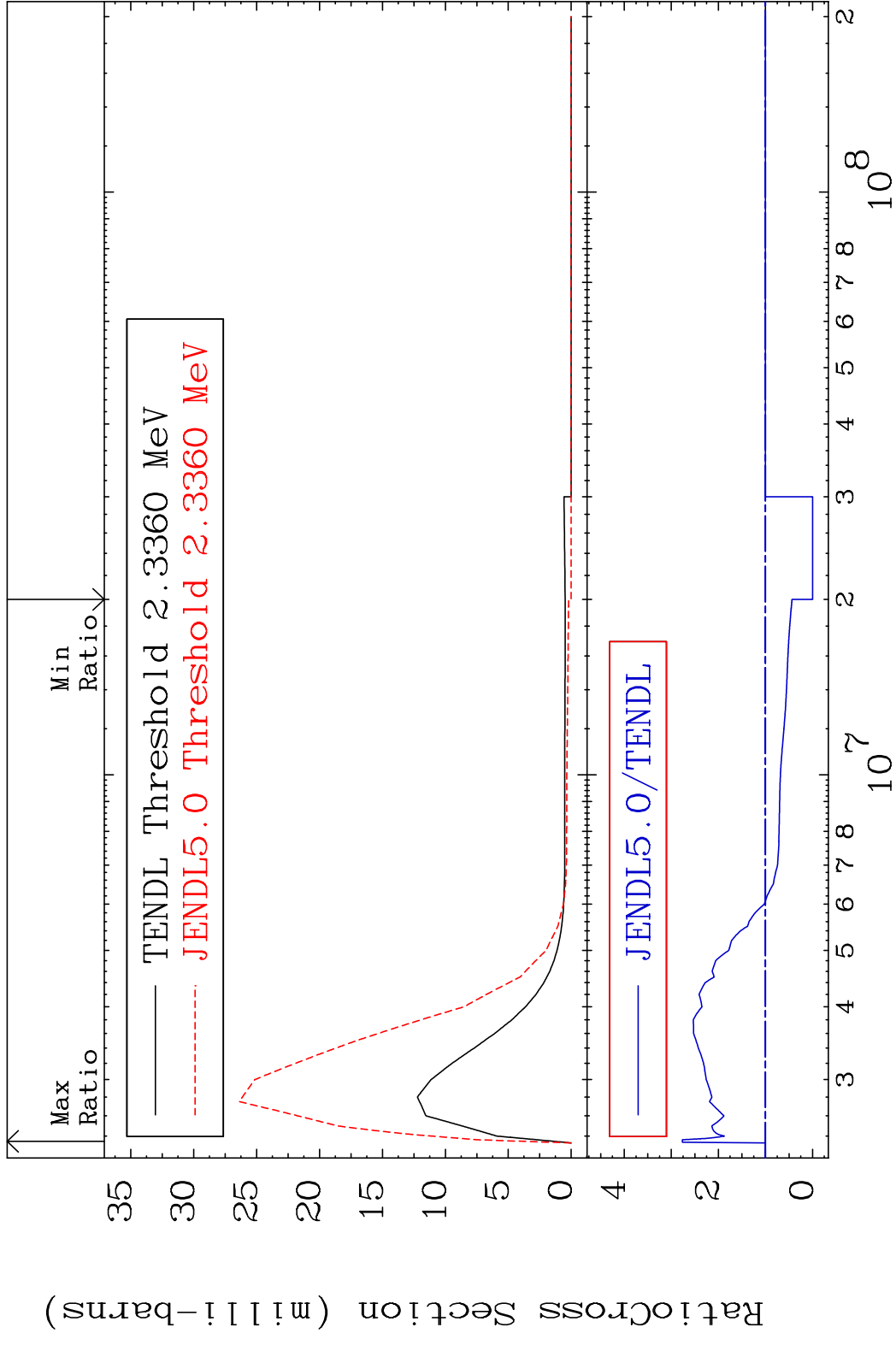
MAT 5625 MT= 73 (n,n') Level 56-Ba-130  
 Cross Section -100.0 To 5970. %



MAT 5625 MT= 74 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 9999. %

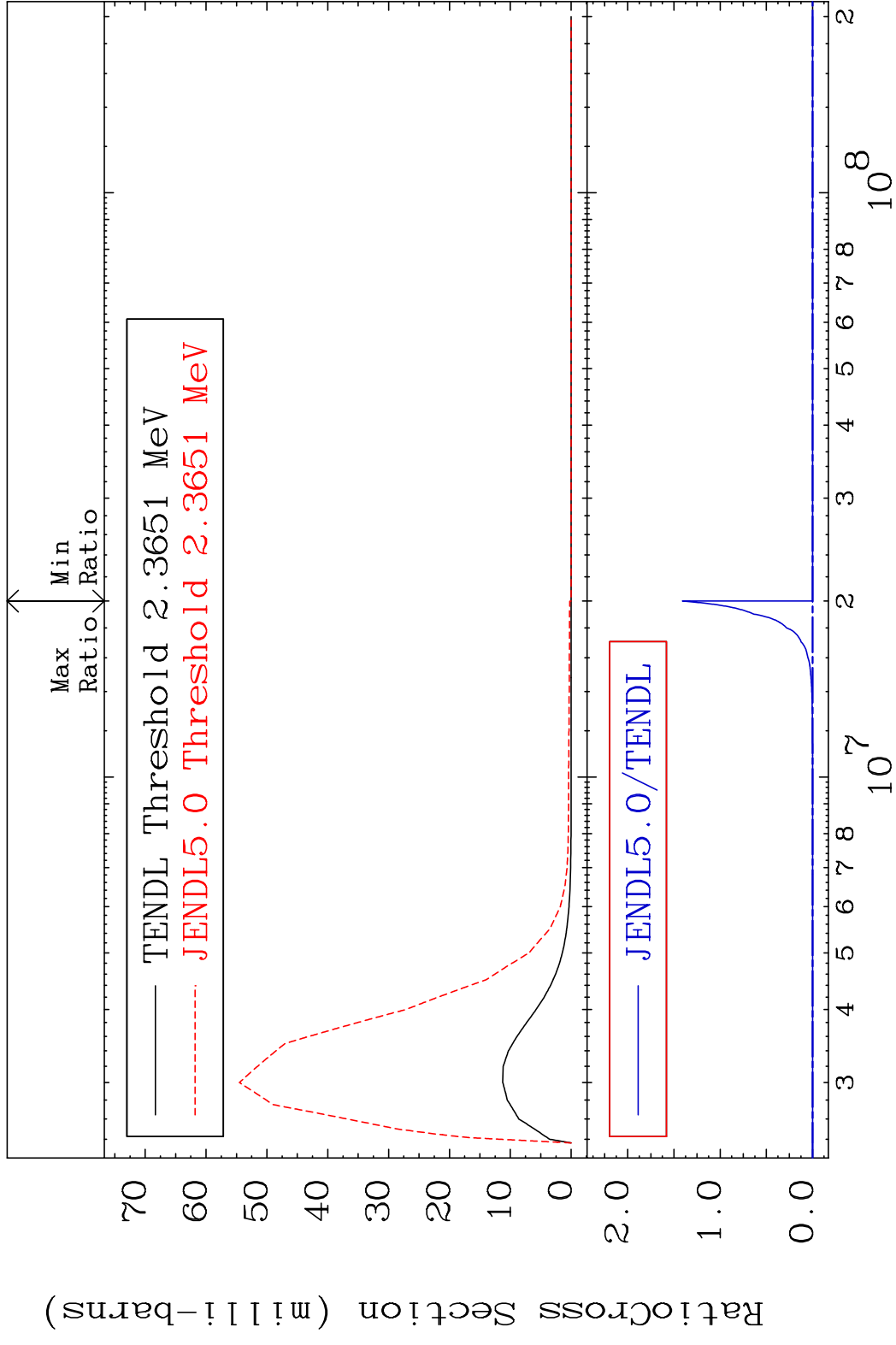


MAT 5625 MT= 75 (n,n') Level 56-Ba-130  
 Cross Section -100.0 To 176.6 %

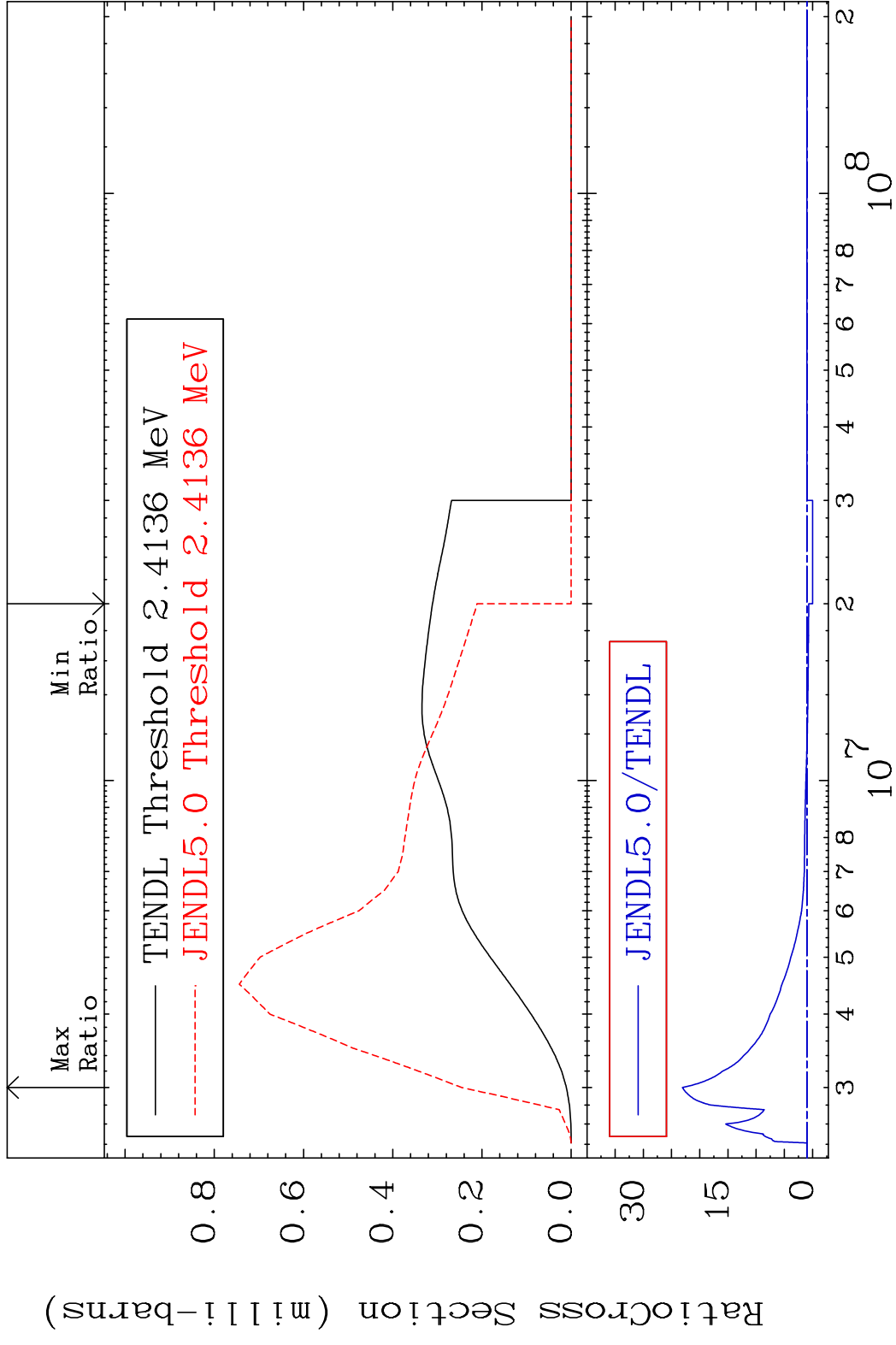


35 Incident Energy (eV) 56-Ba-130

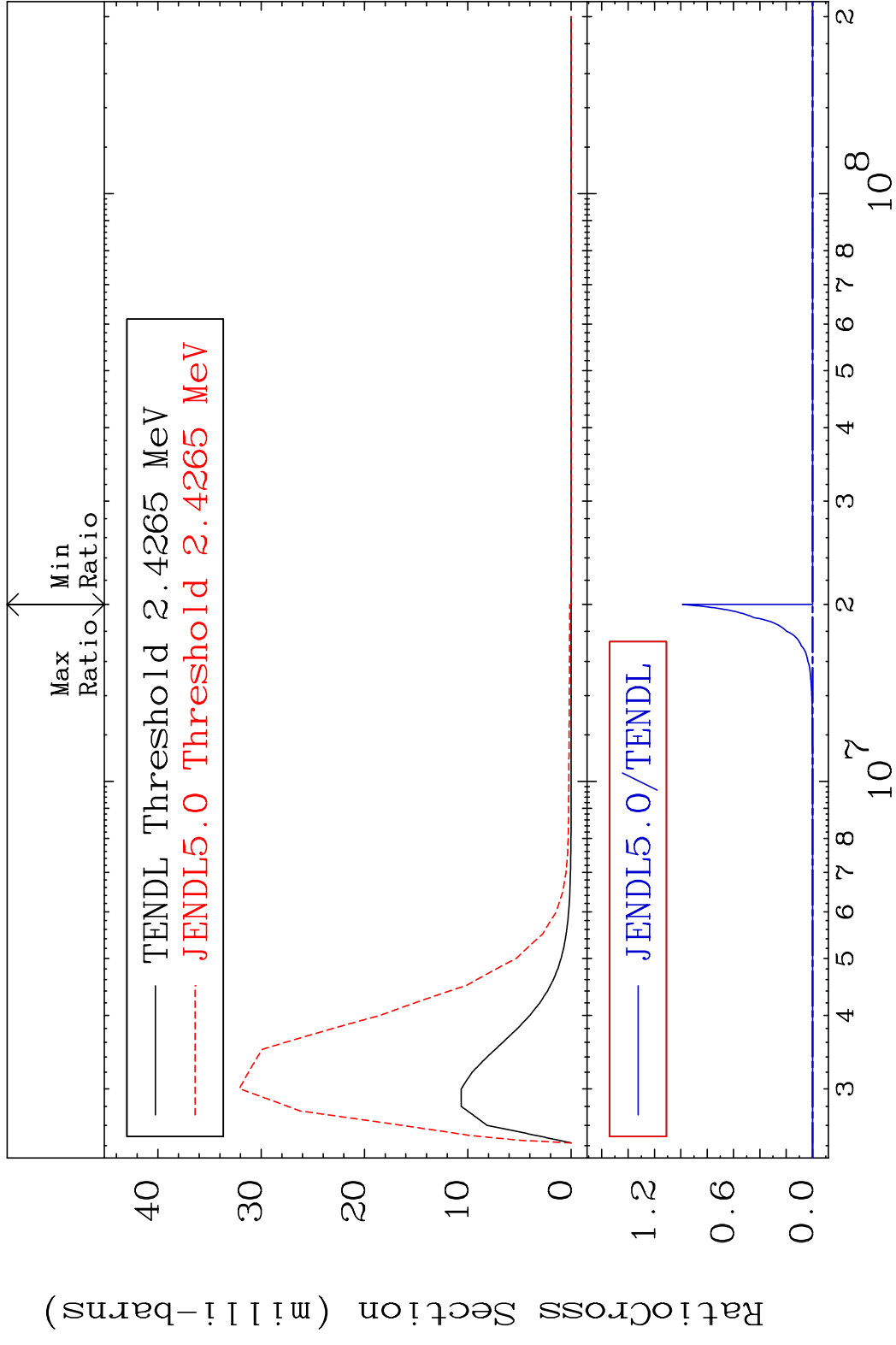
MAT 5625 MT= 76 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 9999. %



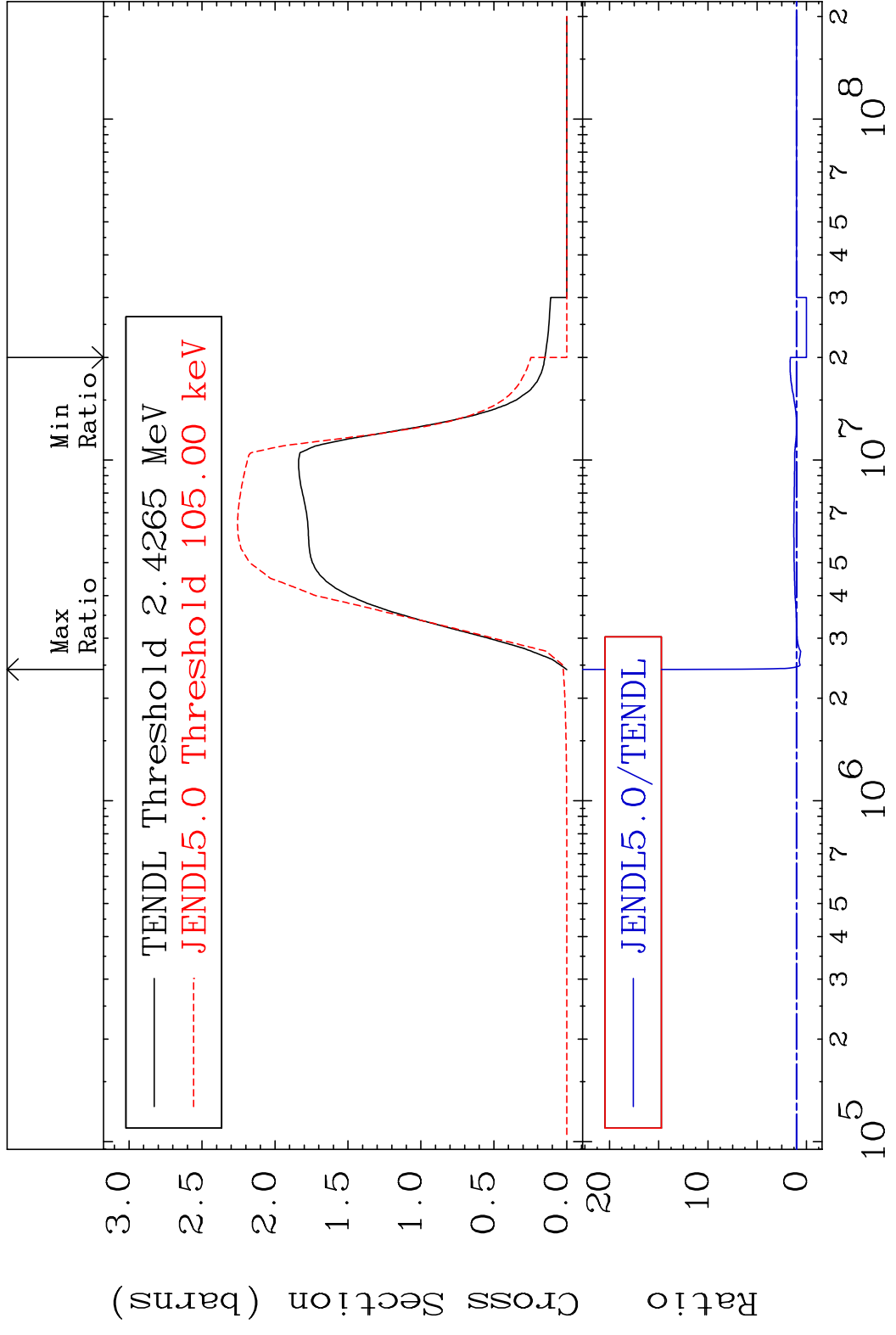
MAT 5625 MT= 77 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 2207. %



MAT 5625 MT= 78 (n, n') Level 56-Ba-130  
 Cross Section -100.0 To 9999. %



MAT 5625 (n, n') Continuum 56-Ba-130  
 Cross Section -100.0 To 1213. %



39 Incident Energy (eV) 56-Ba-130

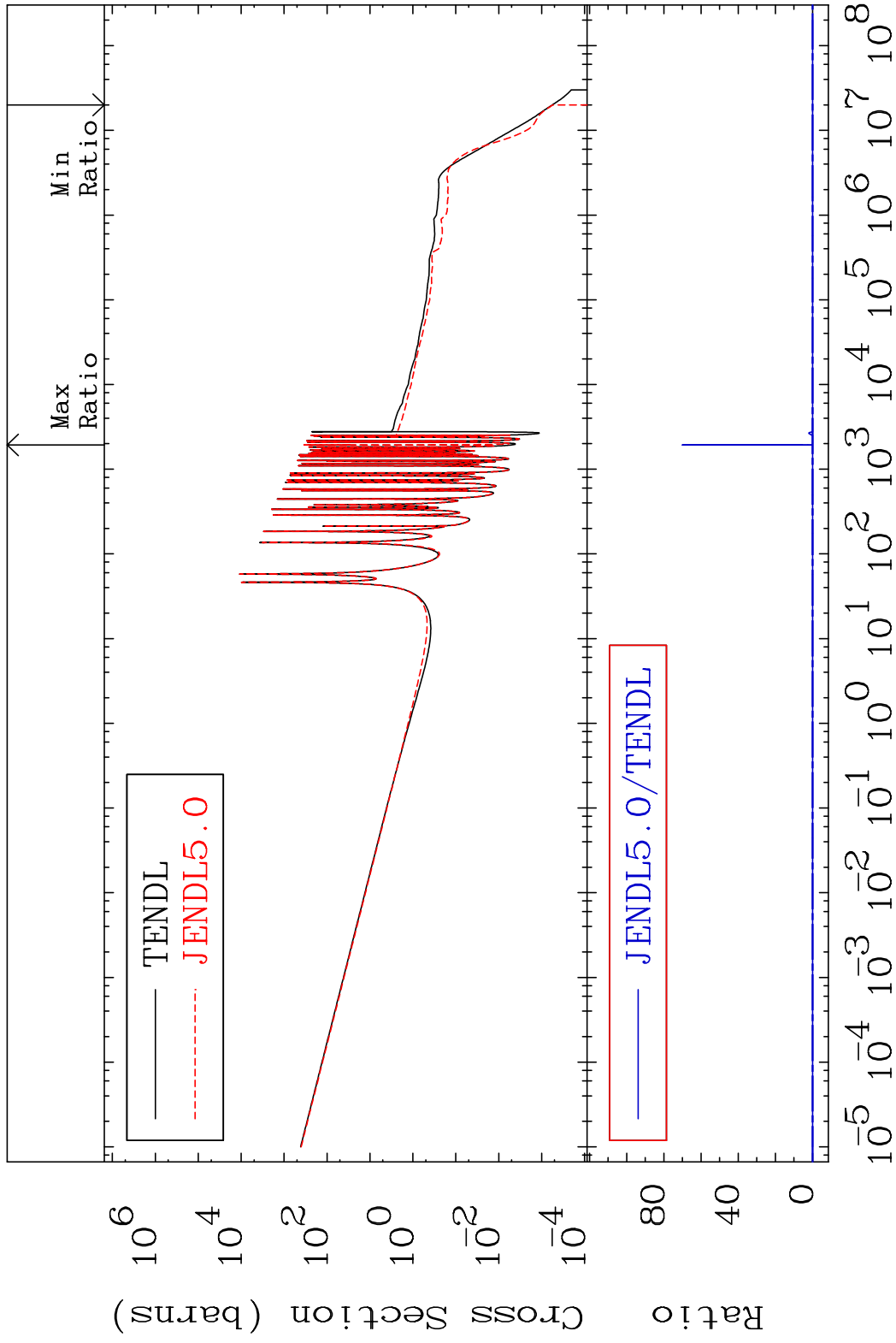


MAT 5625

(n,  $\gamma$ )

56-Ba-130

Cross Section -100.0 To 9999. %



40

Incident Energy (eV)

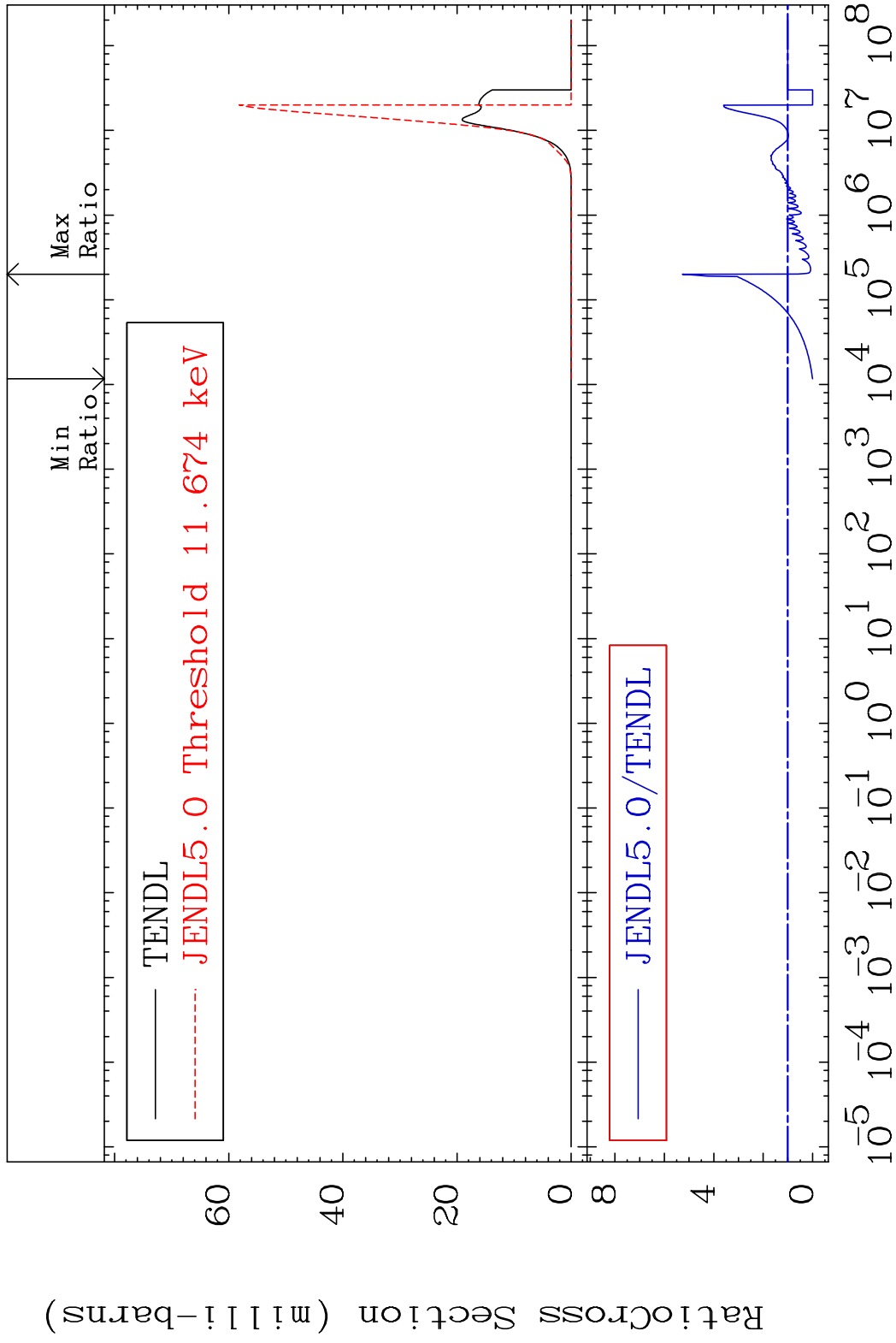
56-Ba-130

MAT 5625

(n, p)

56-Ba-130

Cross Section -100.0 To 427.1 %

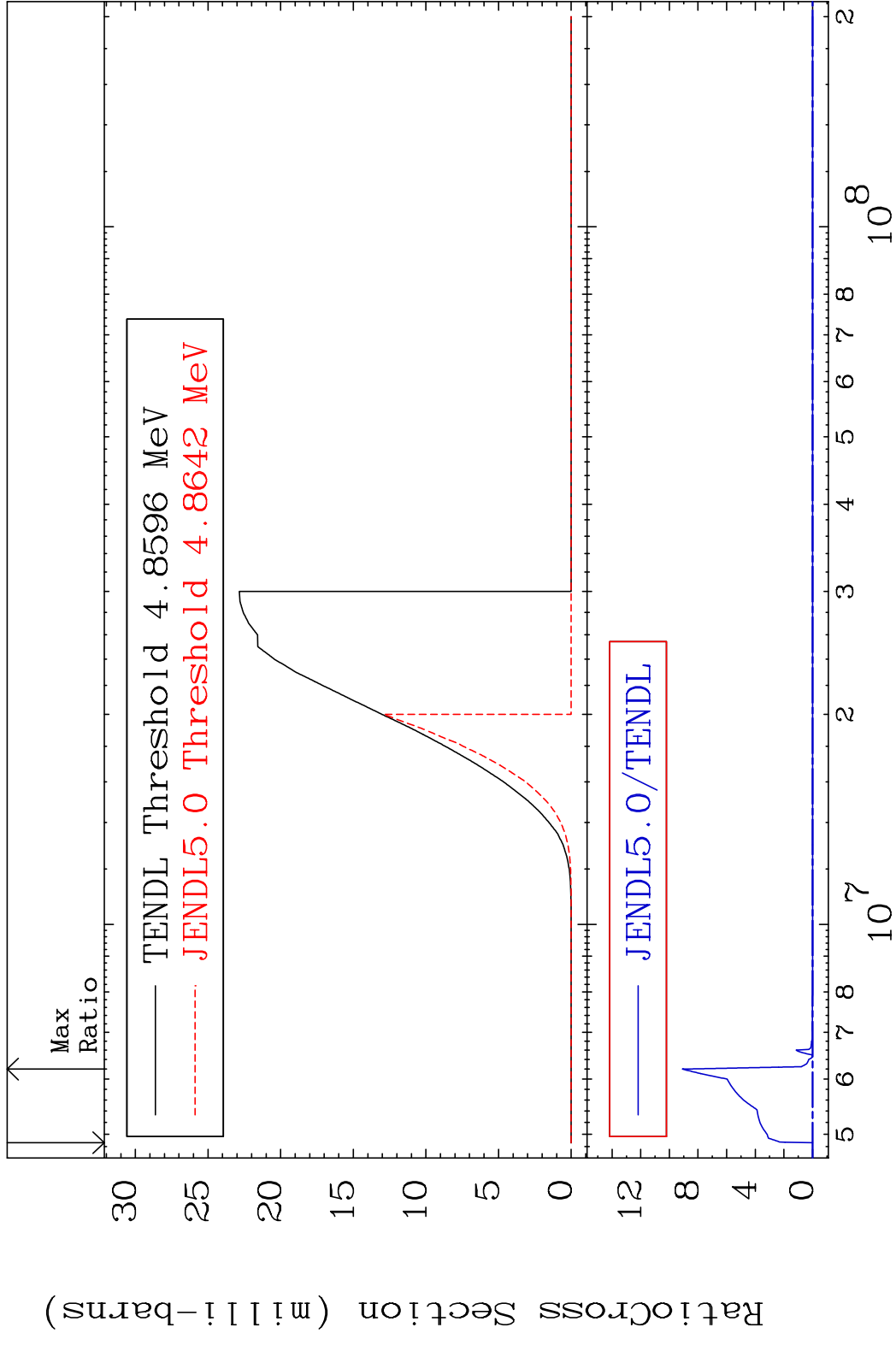


41

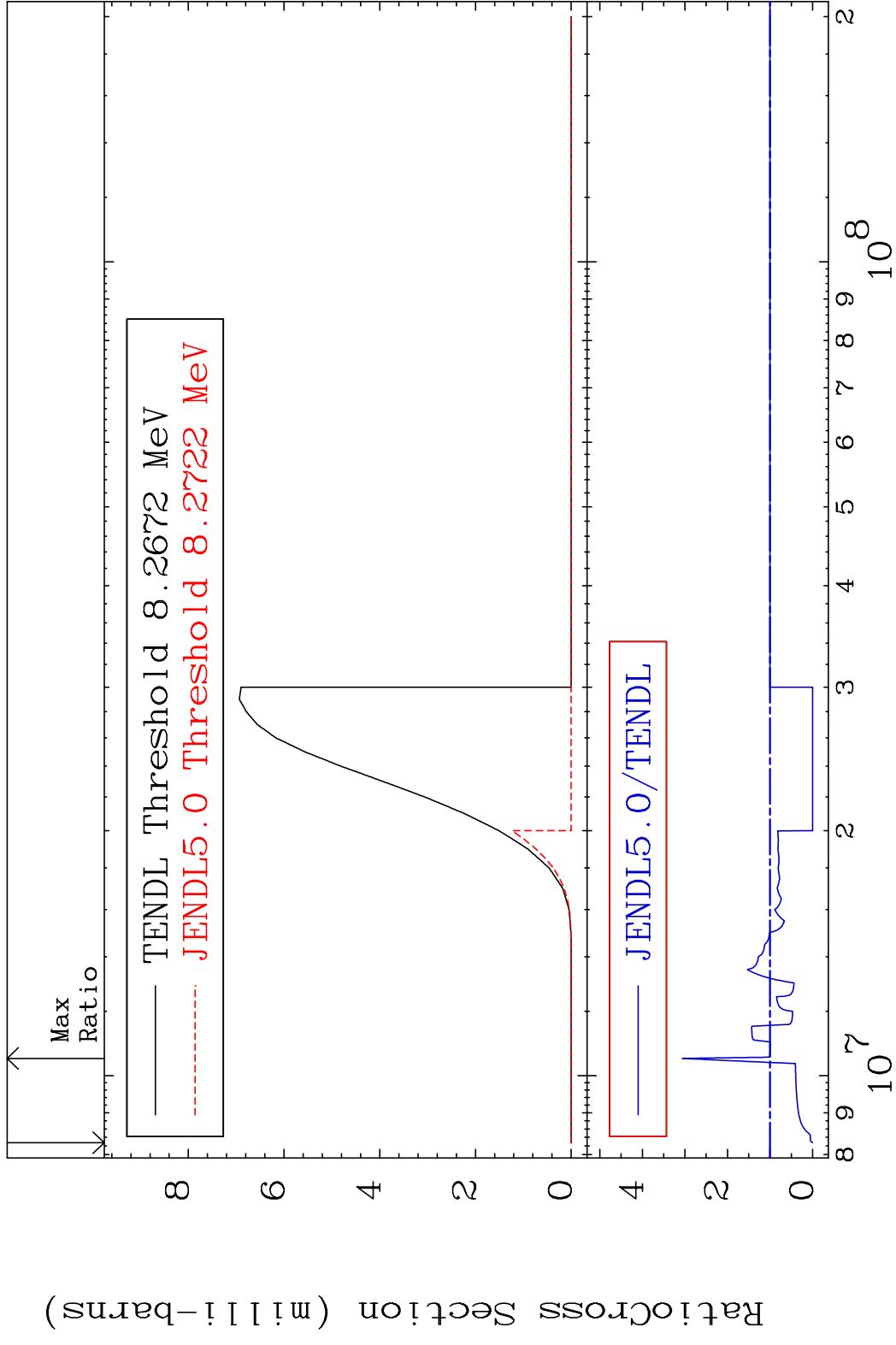
Incident Energy (eV)

56-Ba-130

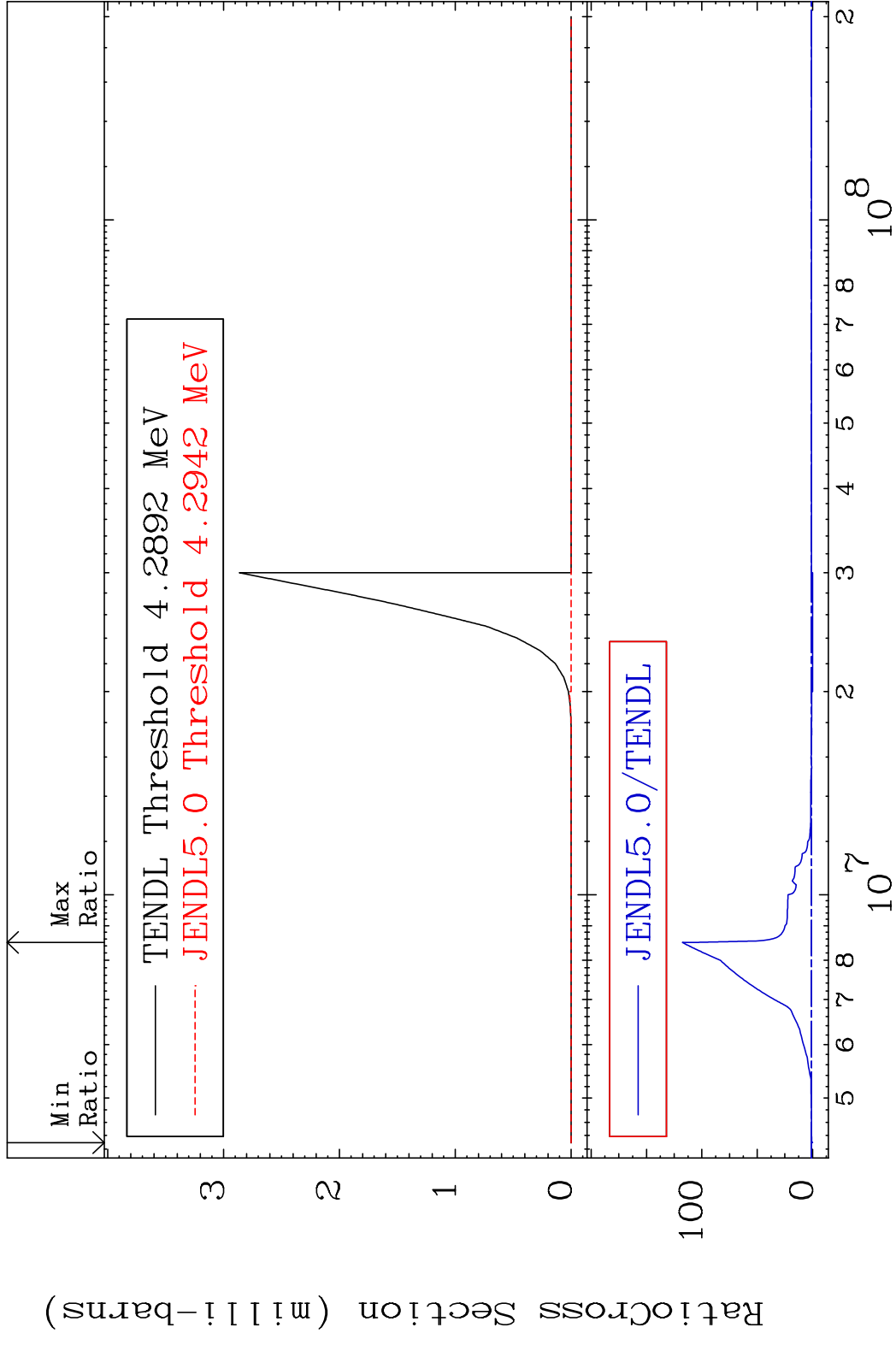
MAT 5625 (n,d) 56-Ba-130  
 Cross Section -100.0 To 9999. %



MAT 5625 (n, t) 56-Ba-130  
 Cross Section -100.0 To 206.1 %



MAT 5625 (n, He-3) 56-Ba-130  
 Cross Section -100.0 To 9999. %

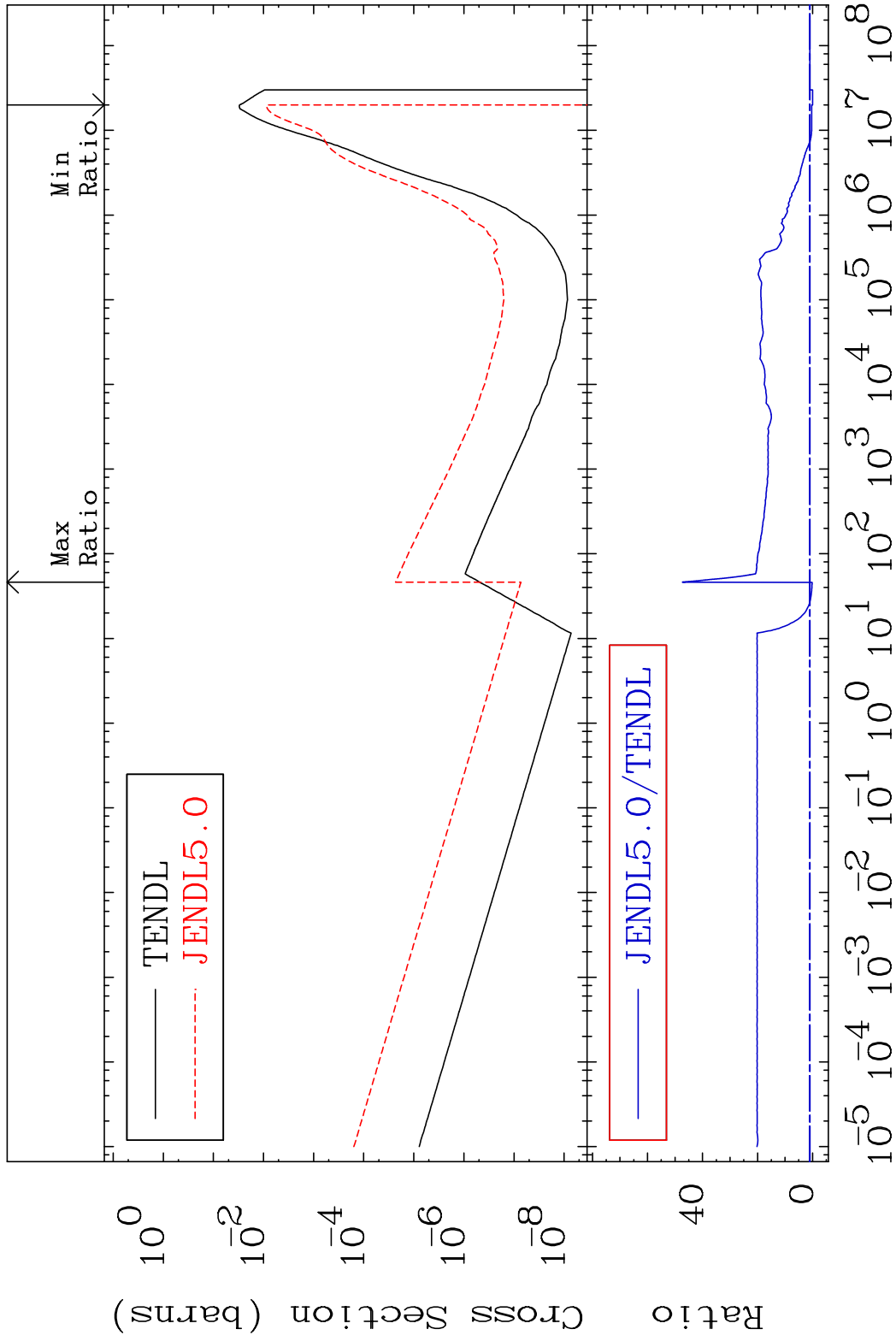


MAT 5625

(n,  $\alpha$ )

56-Ba-130

Cross Section -100.0 To 4633. %

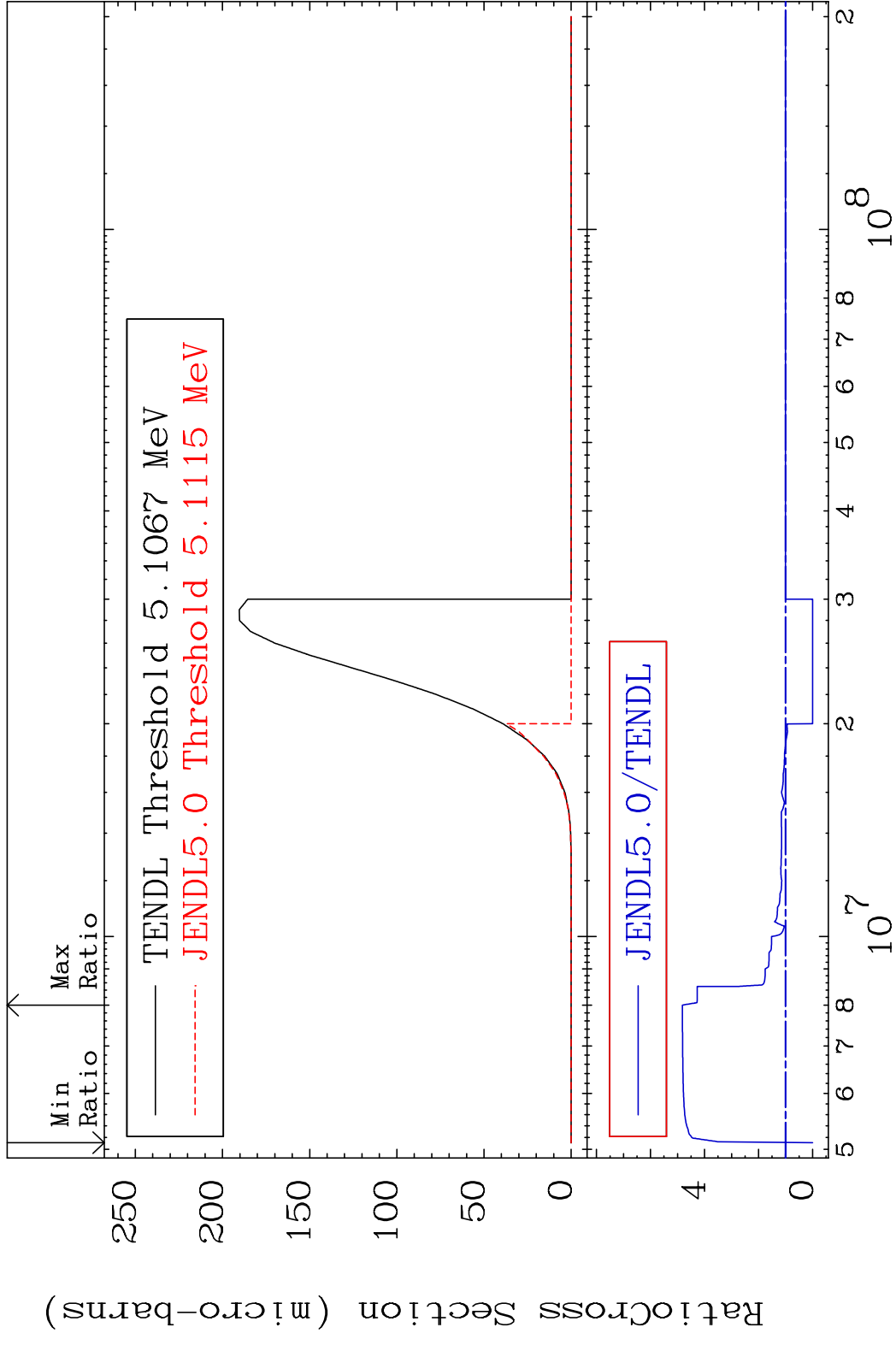


45

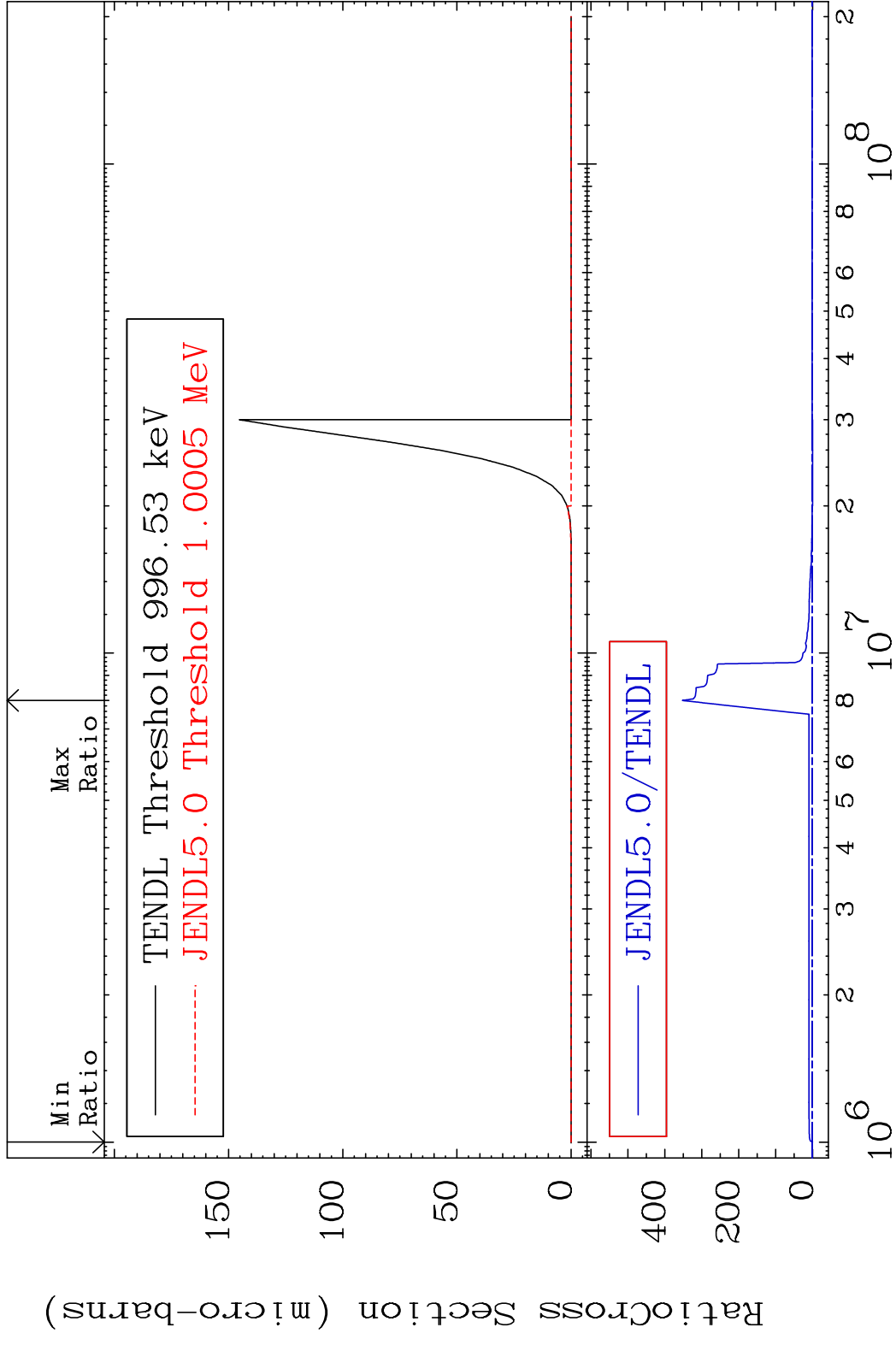
Incident Energy (eV)

56-Ba-130

MAT 5625 (n,2p) 56-Ba-130  
 Cross Section -100.0 To 382.1 %



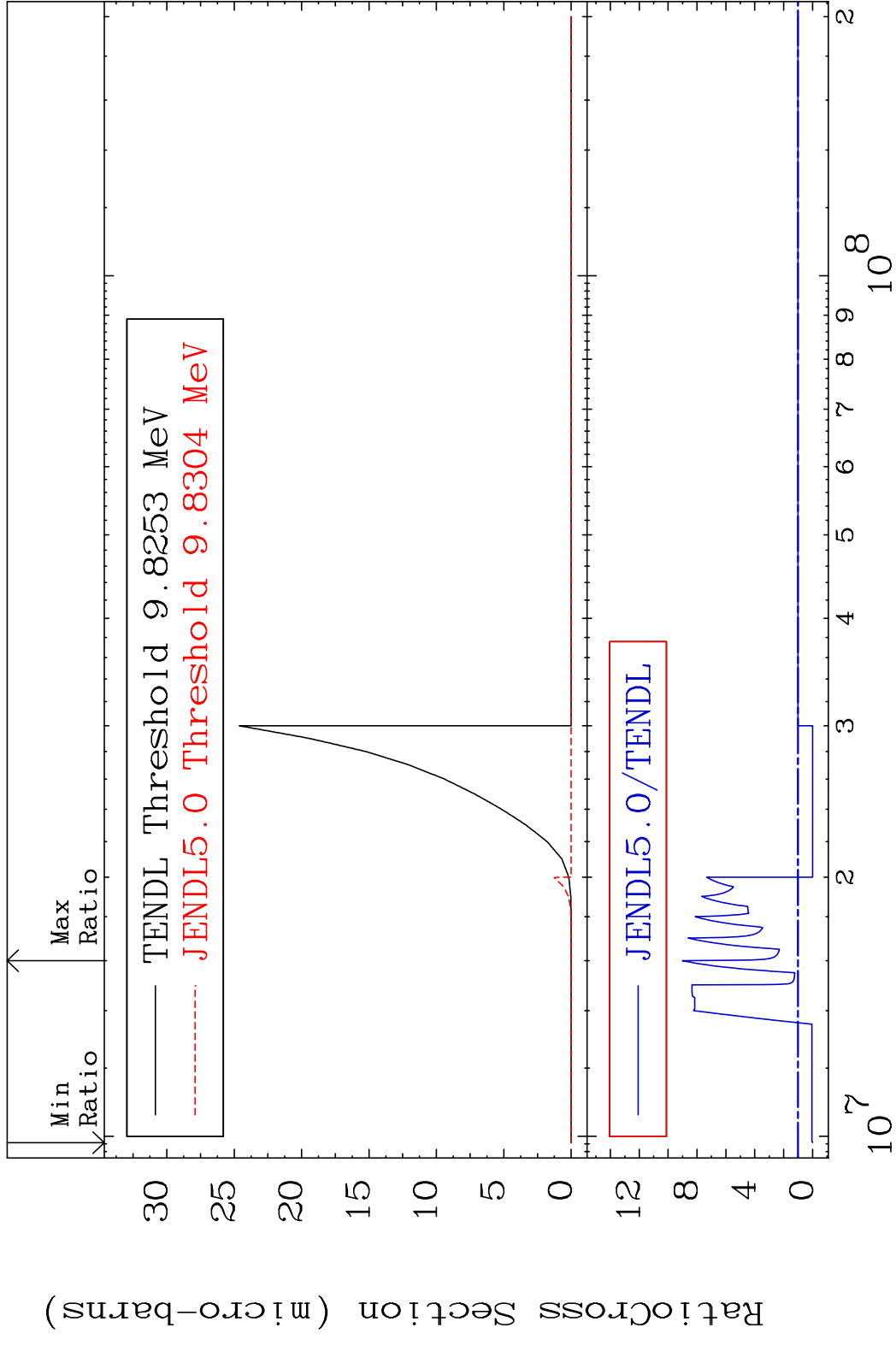
MAT 5625 (n,p)  $\alpha$  56-Ba-130  
 Cross Section -100.0 To 9999. %



47 Incident Energy (eV) 56-Ba-130



MAT 5625 (n,p) d 56-Ba-130  
 Cross Section -100.0 To 801.5 %



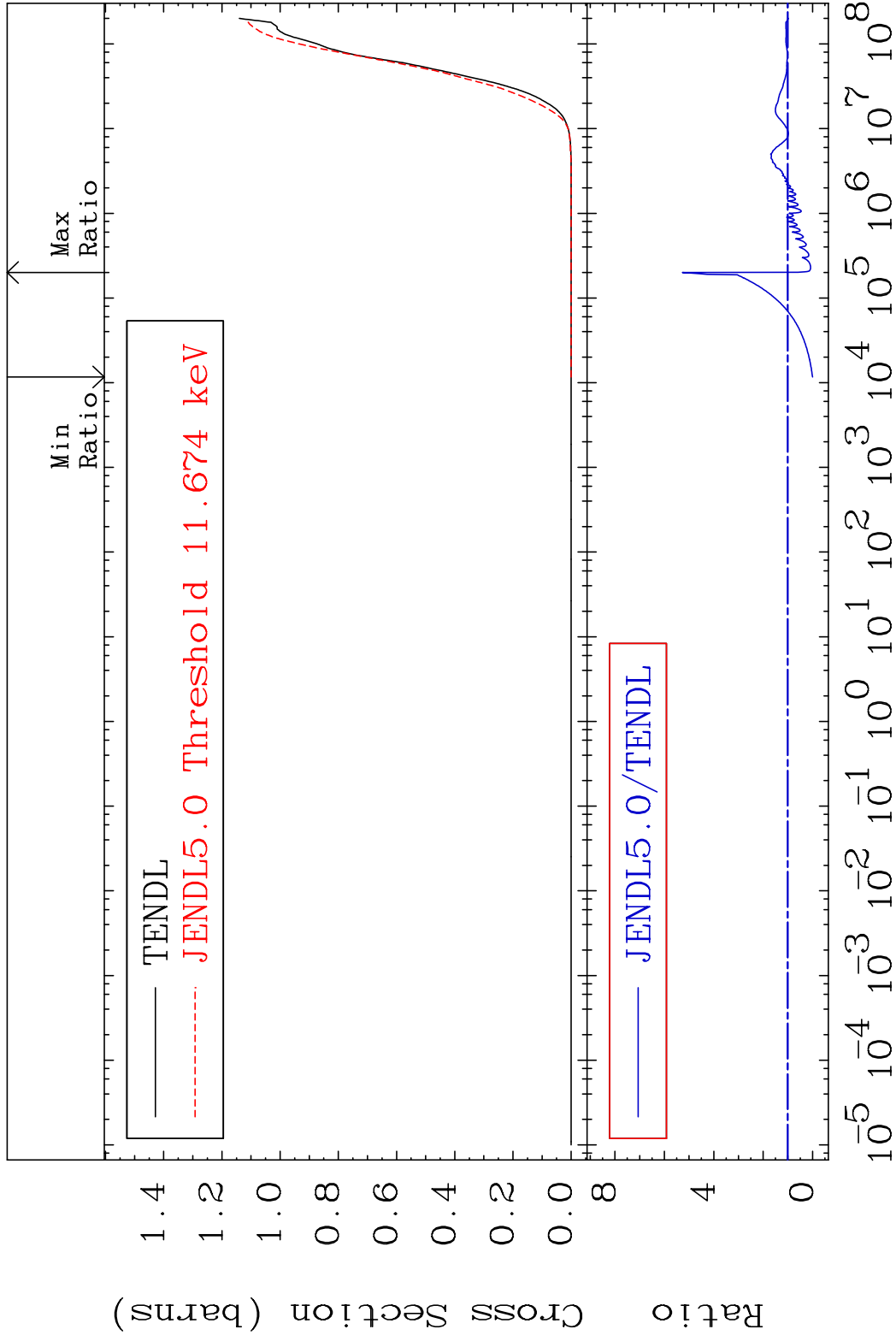
48 56-Ba-130

MAT 5625

Hydrogen Production

56-Ba-130

Cross Section -100.0 To 427.1 %

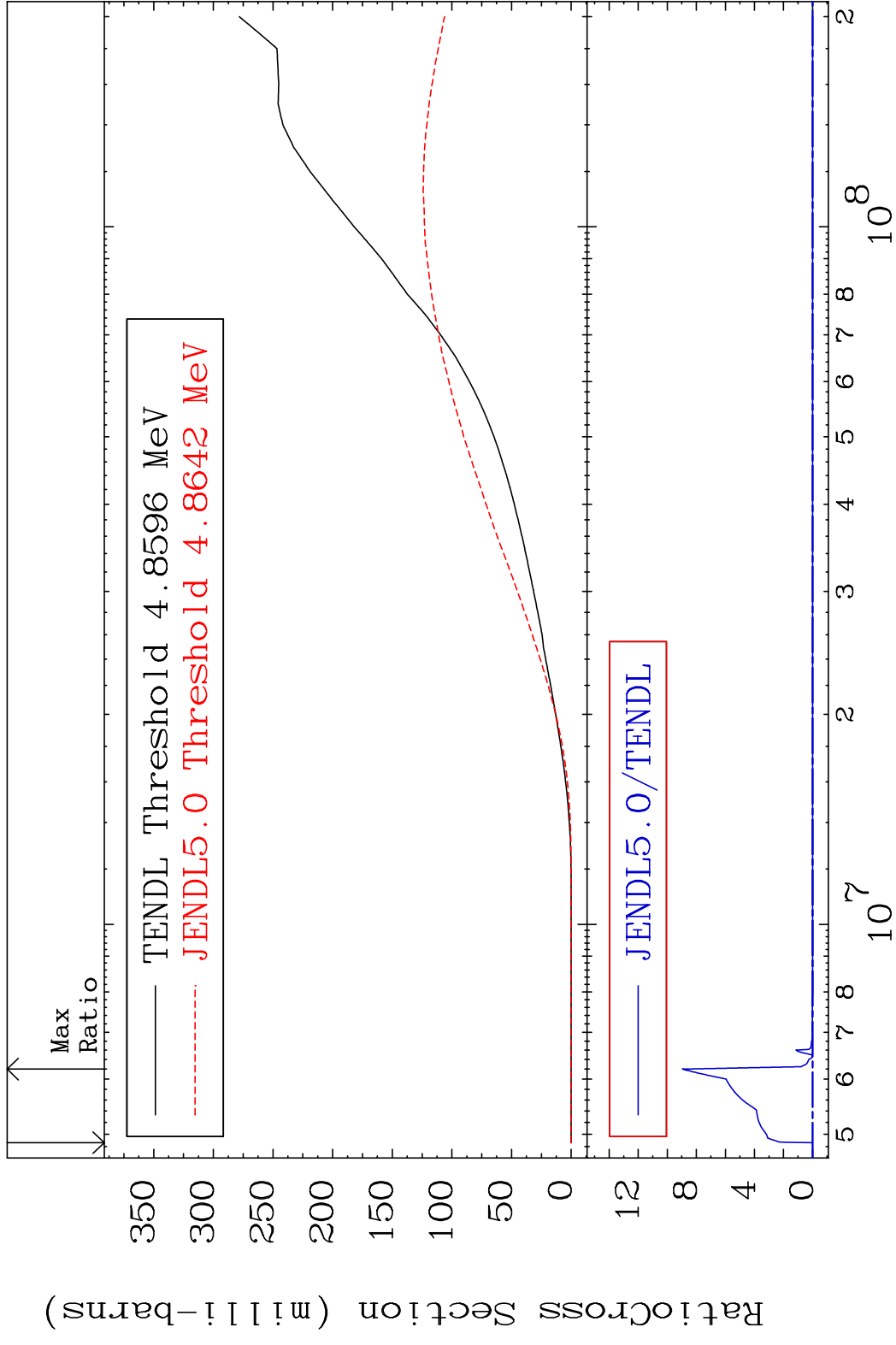


49

Incident Energy (eV)

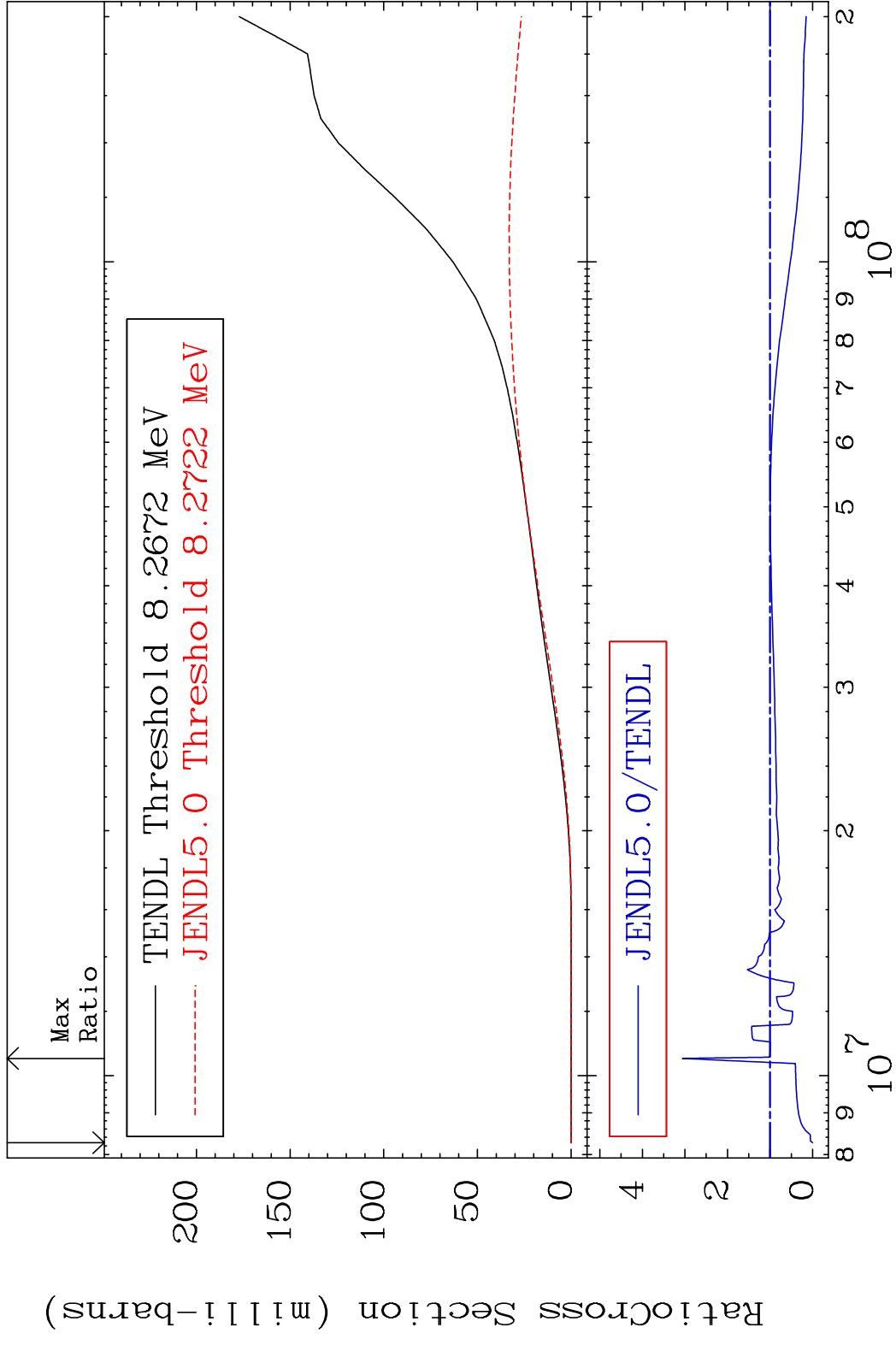
56-Ba-130

MAT 5625 Deuterium Production 56-Ba-130  
 Cross Section -100.0 To 9999. %



50 56-Ba-130

MAT 5625 Tritium Production 56-Ba-130  
 Cross Section -100.0 To 206.1 %

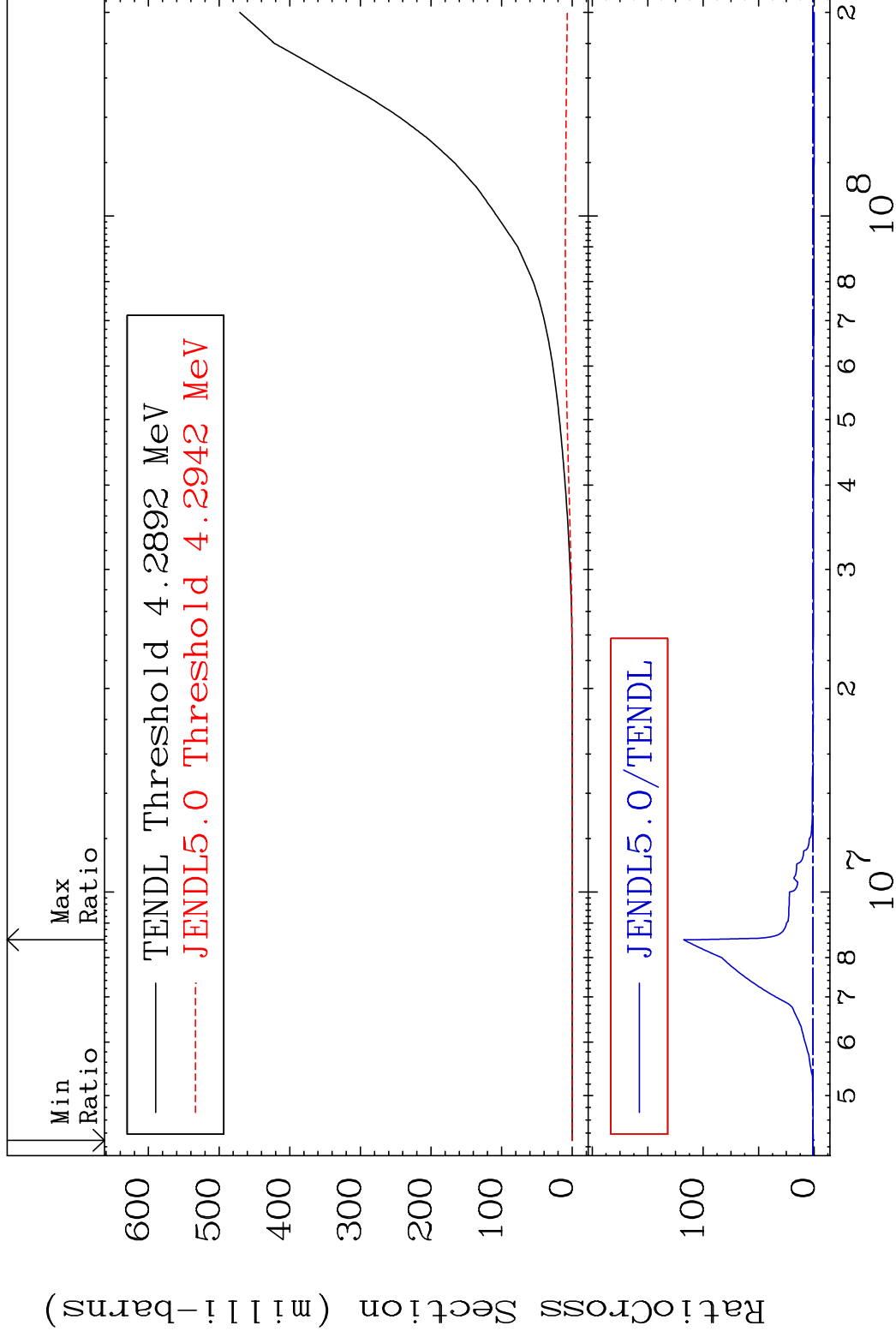


MAT 5625

He-3 Production

56-Ba-130

Cross Section -100.0 To 9999. %

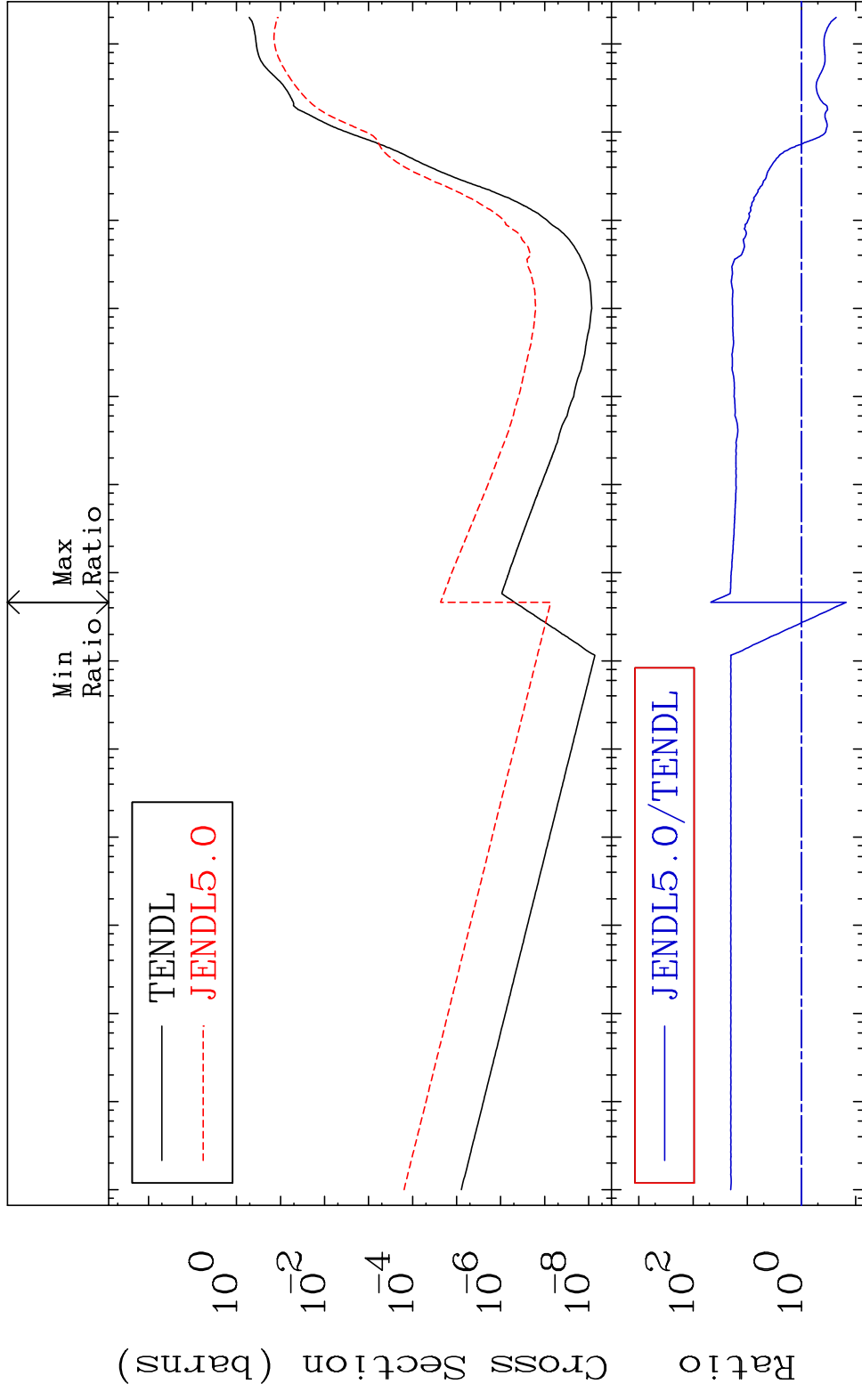


MAT 5625

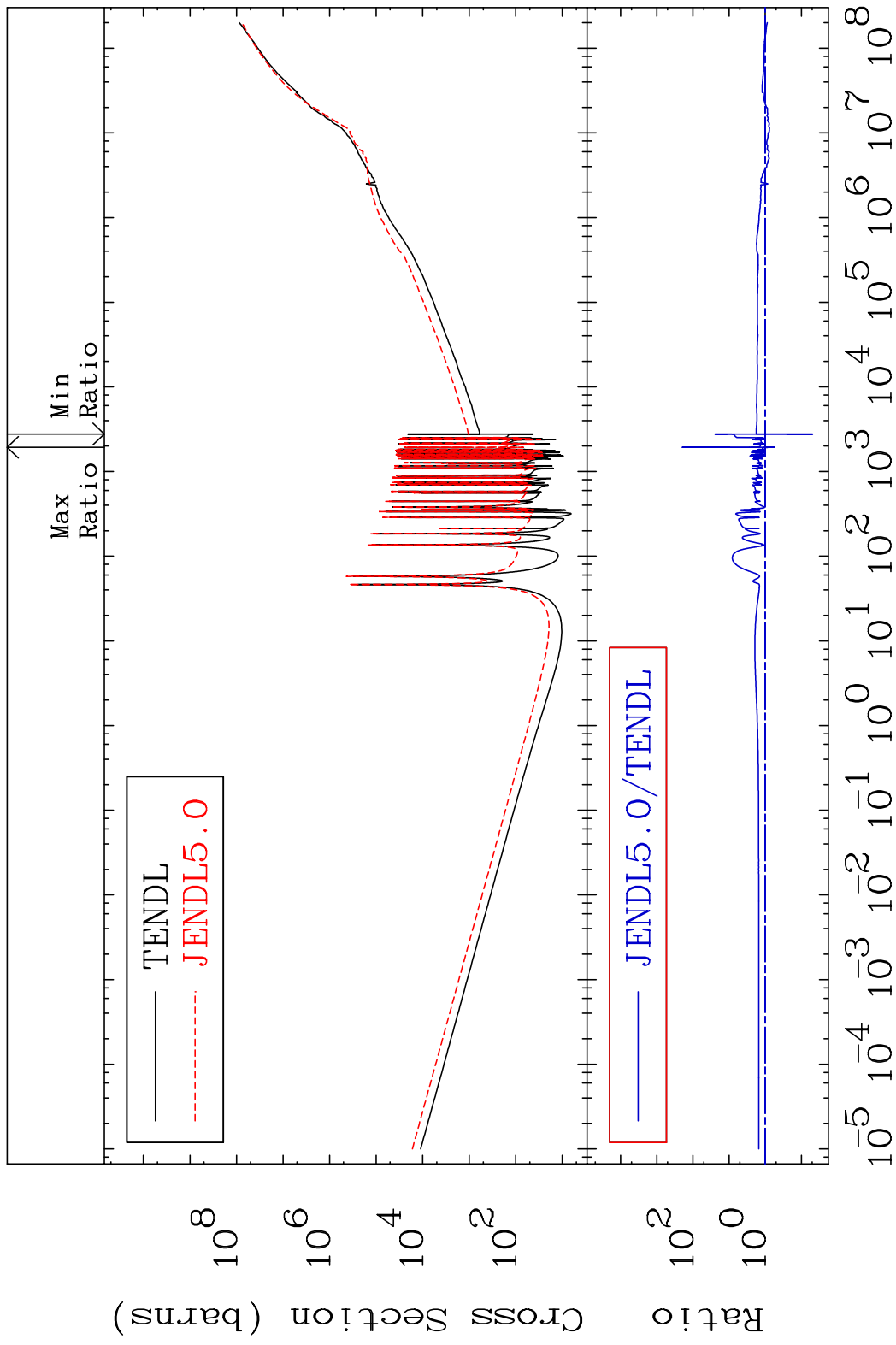
He-4 Production

56-Ba-130

Cross Section -85.08 To 4633. %

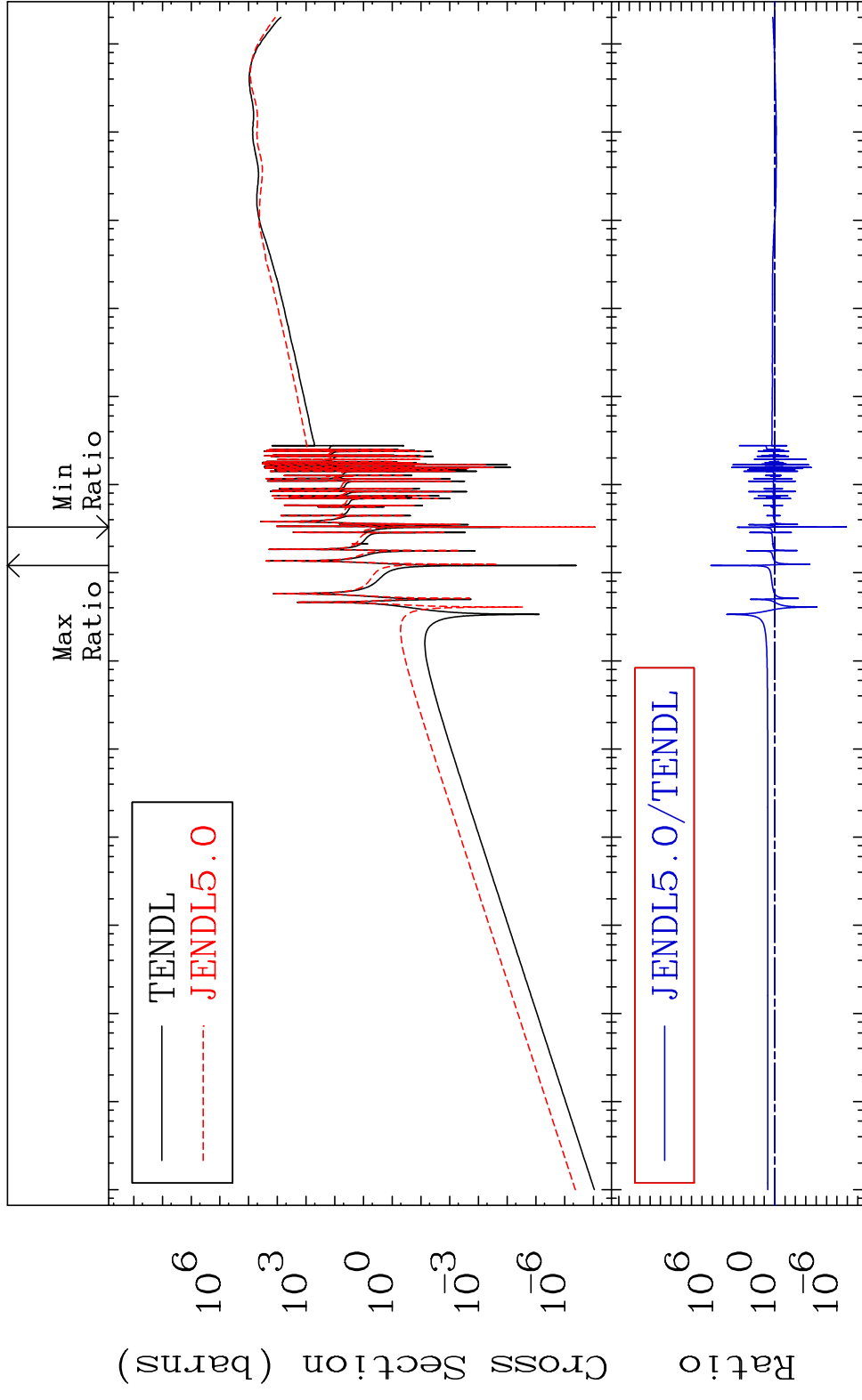


MAT 5625 Kerma total (eV-barns) 56-Ba-130  
 Cross Section -95.11 To 9999. %



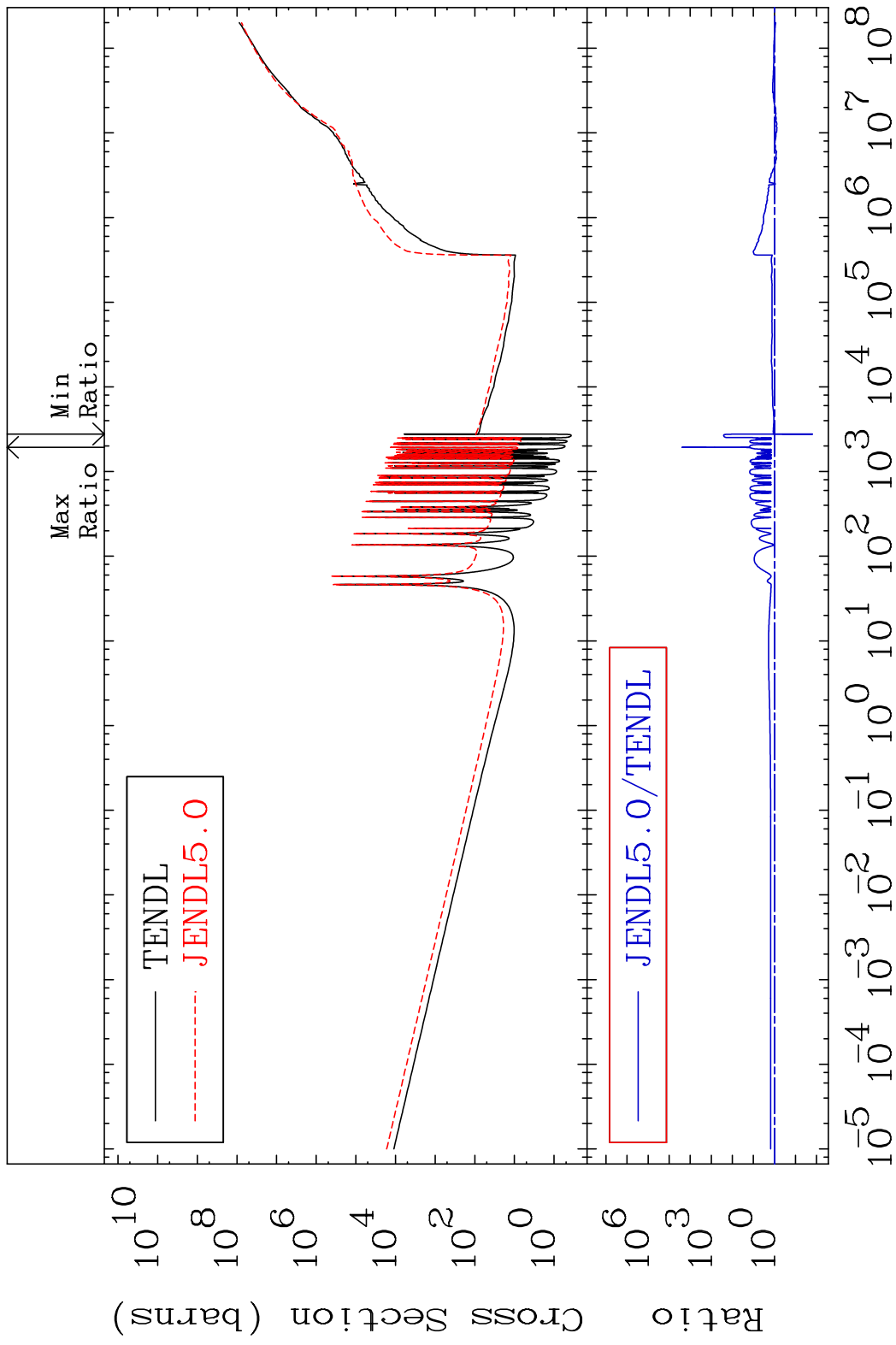
54 Incident Energy (eV) 56-Ba-130

MAT 5625      Kerma elastic      56-Ba-130  
 Cross Section      -100.0 To 9999. %

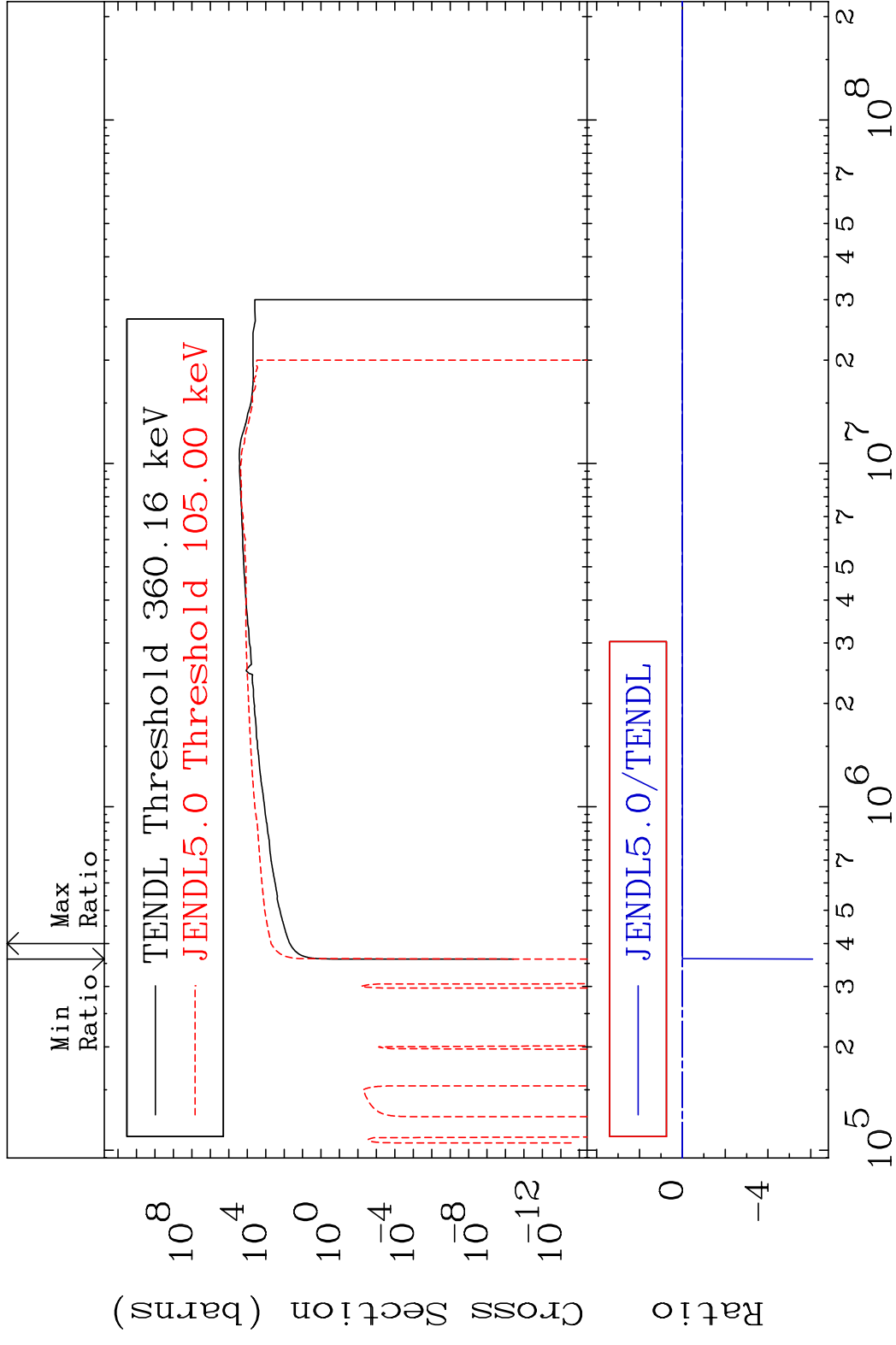




MAT 5625 Kerma non-elastic (all but mt2) 56-Ba-130  
 Cross Section -98.45 To 9999. %

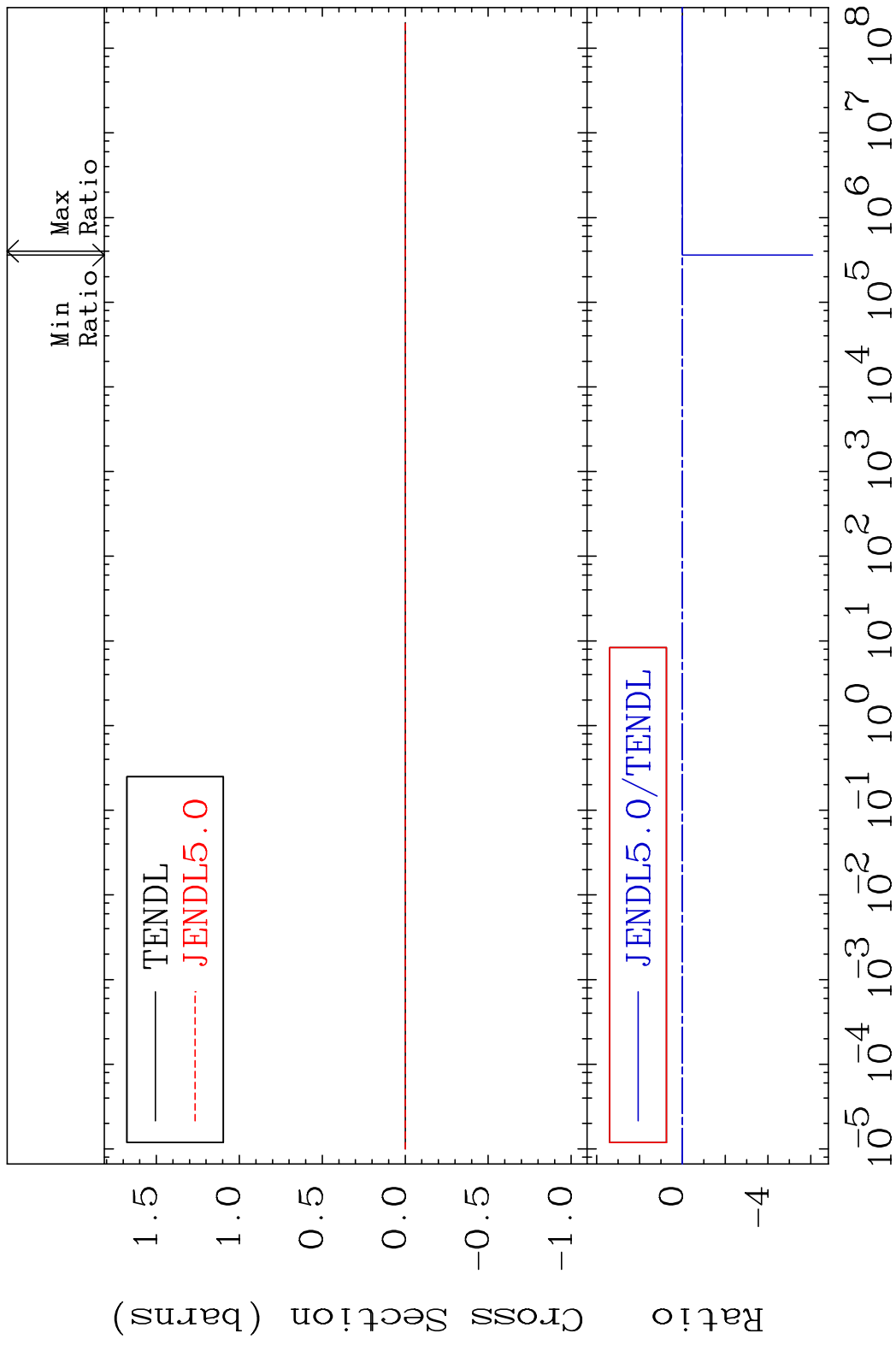


MAT 5625 Kerma inelastic (mt51-91) 56-Ba-130  
 Cross Section -9999. To 930.8 %

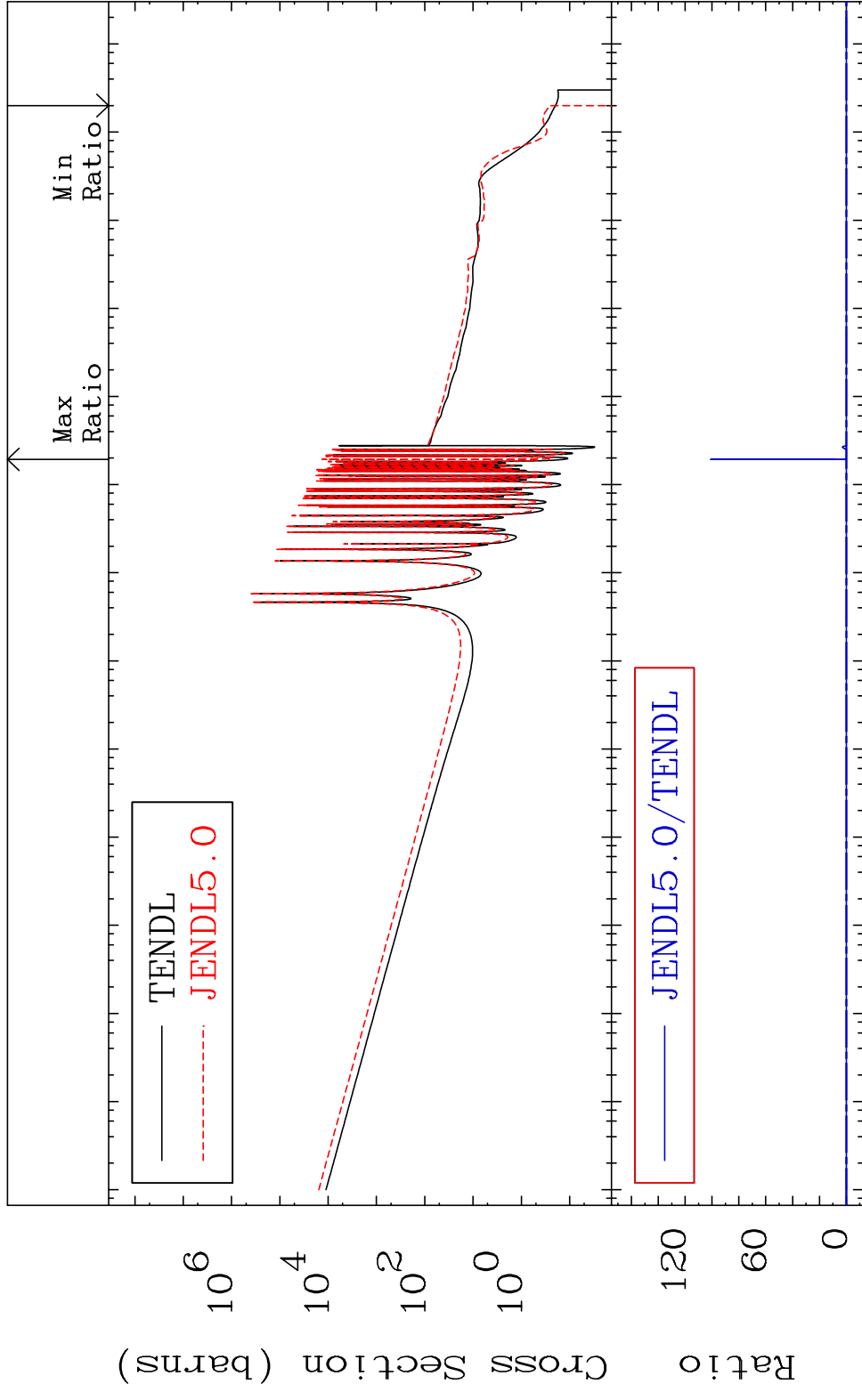


57 Incident Energy (eV) 56-Ba-130

MAT 5625 Kerma fission (mt18 or mt19-20-21-38) 56-Ba-130  
 Cross Section -9999. To 930.8 %

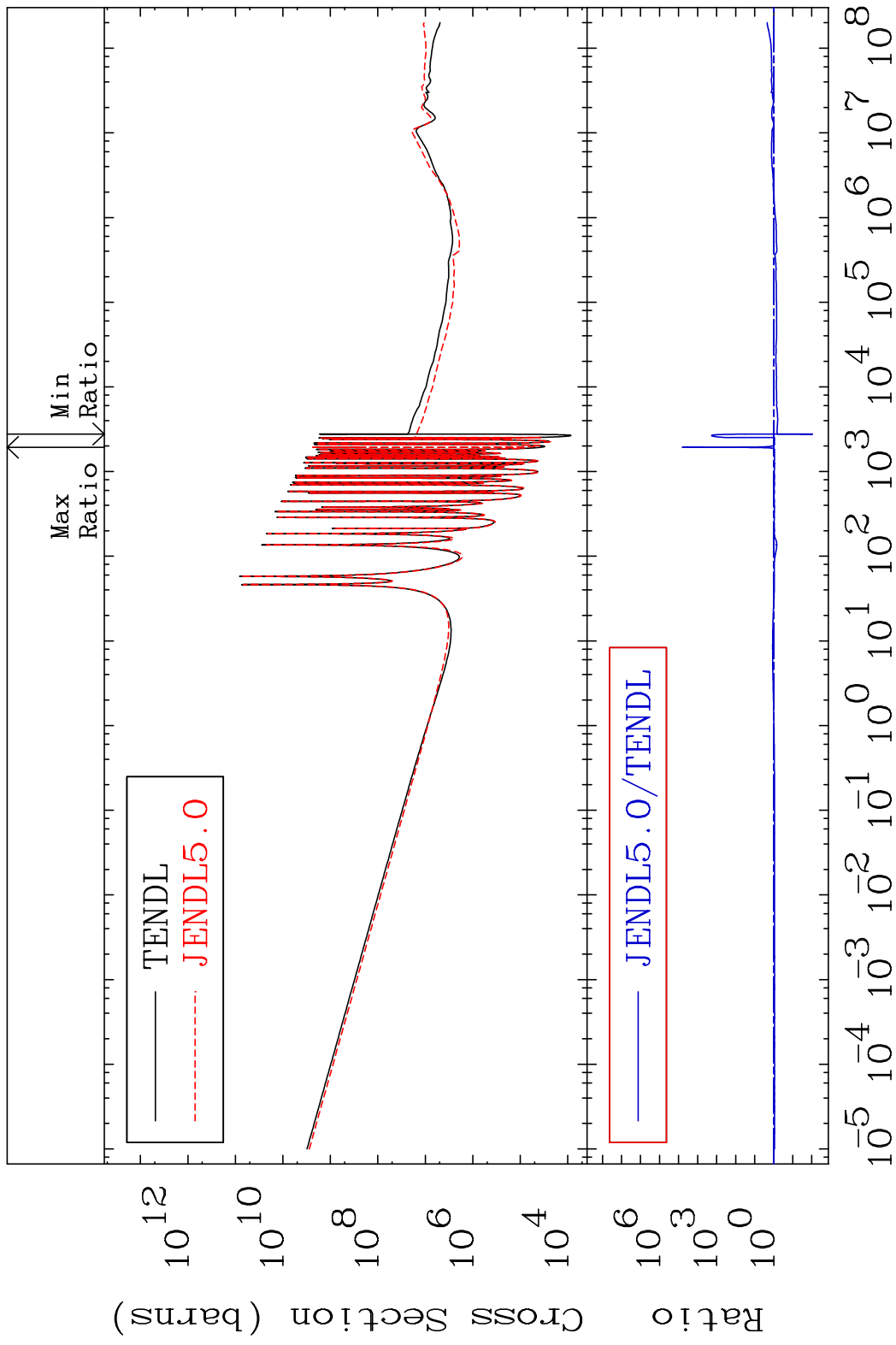


MAT 5625 Kerma capture (mt102) 56-Ba-130  
 Cross Section -100.0 To 9999. %



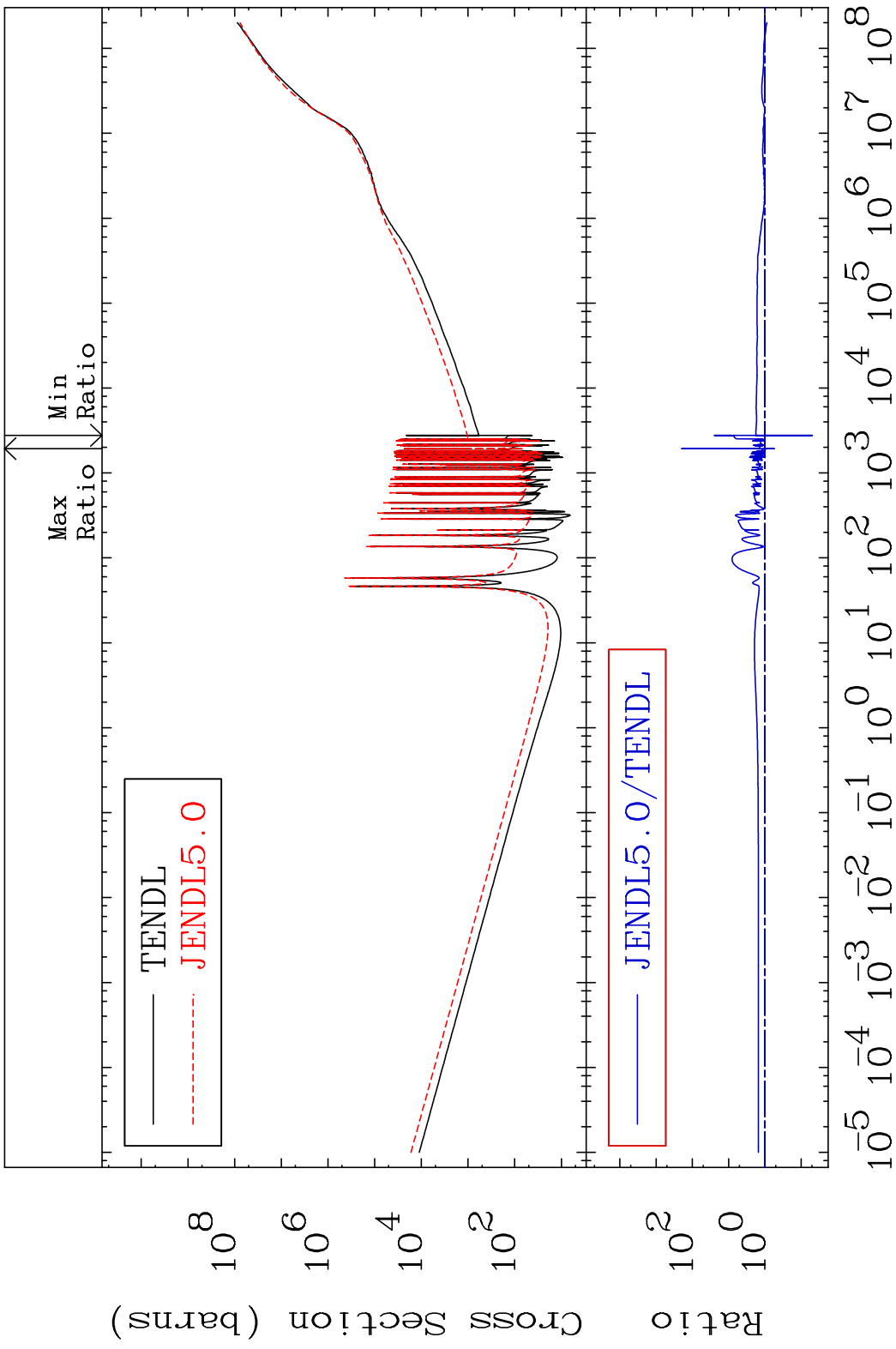
59 Incident Energy (eV) 56-Ba-130

MAT 5625 Total photon (eV-barns) 56-Ba-130  
Cross Section -99.09 To 9999. %

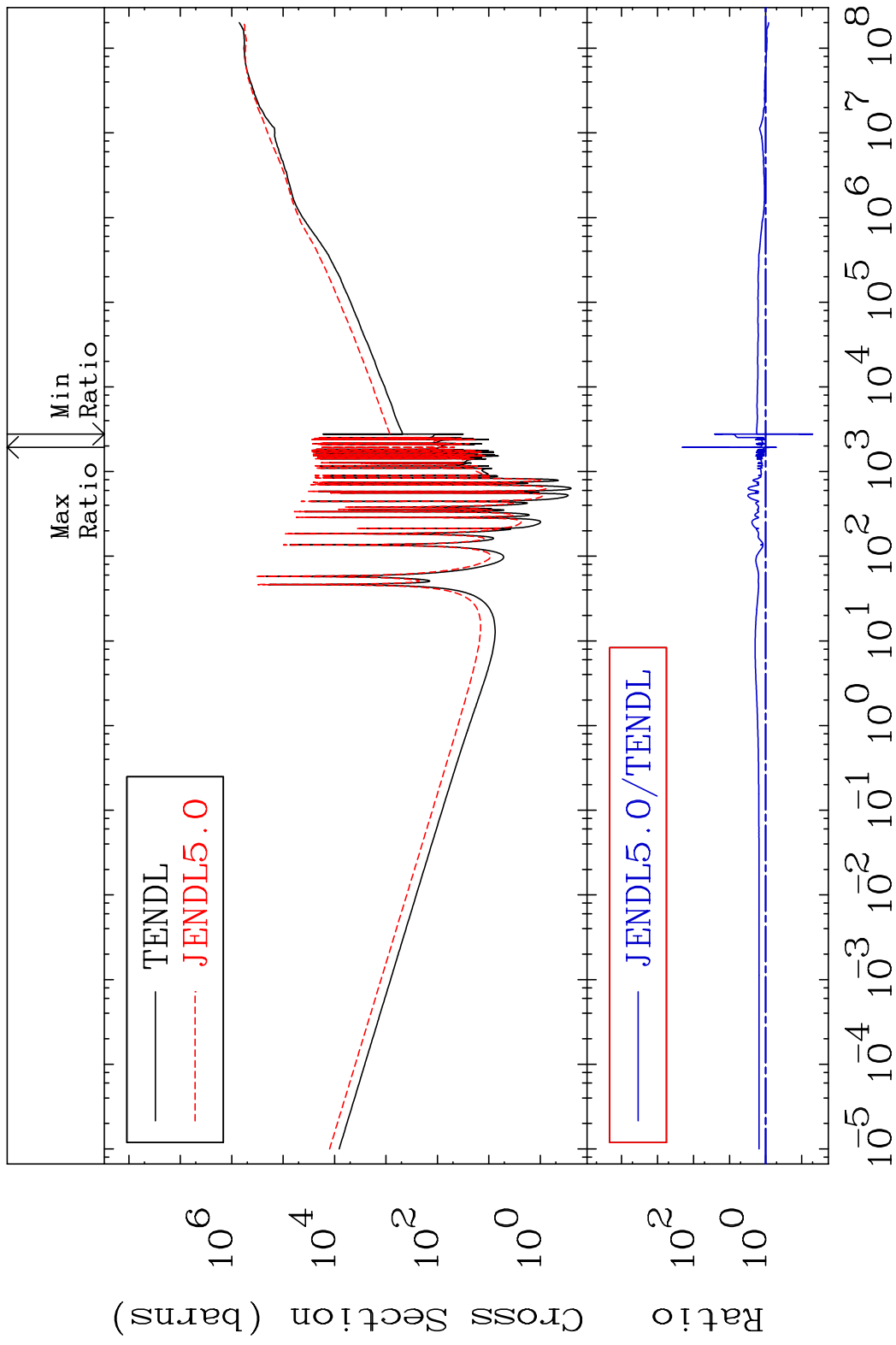


60 Incident Energy (eV) 56-Ba-130

MAT 5625 Total kinematic kerma (high limit) 56-Ba-130  
 Cross Section -95.11 To 9999. %



MAT 5625      Dpa total (eV-barns)      56-Ba-130  
 Cross Section      -95.01 To 9999. %



62      Incident Energy (eV)      56-Ba-130

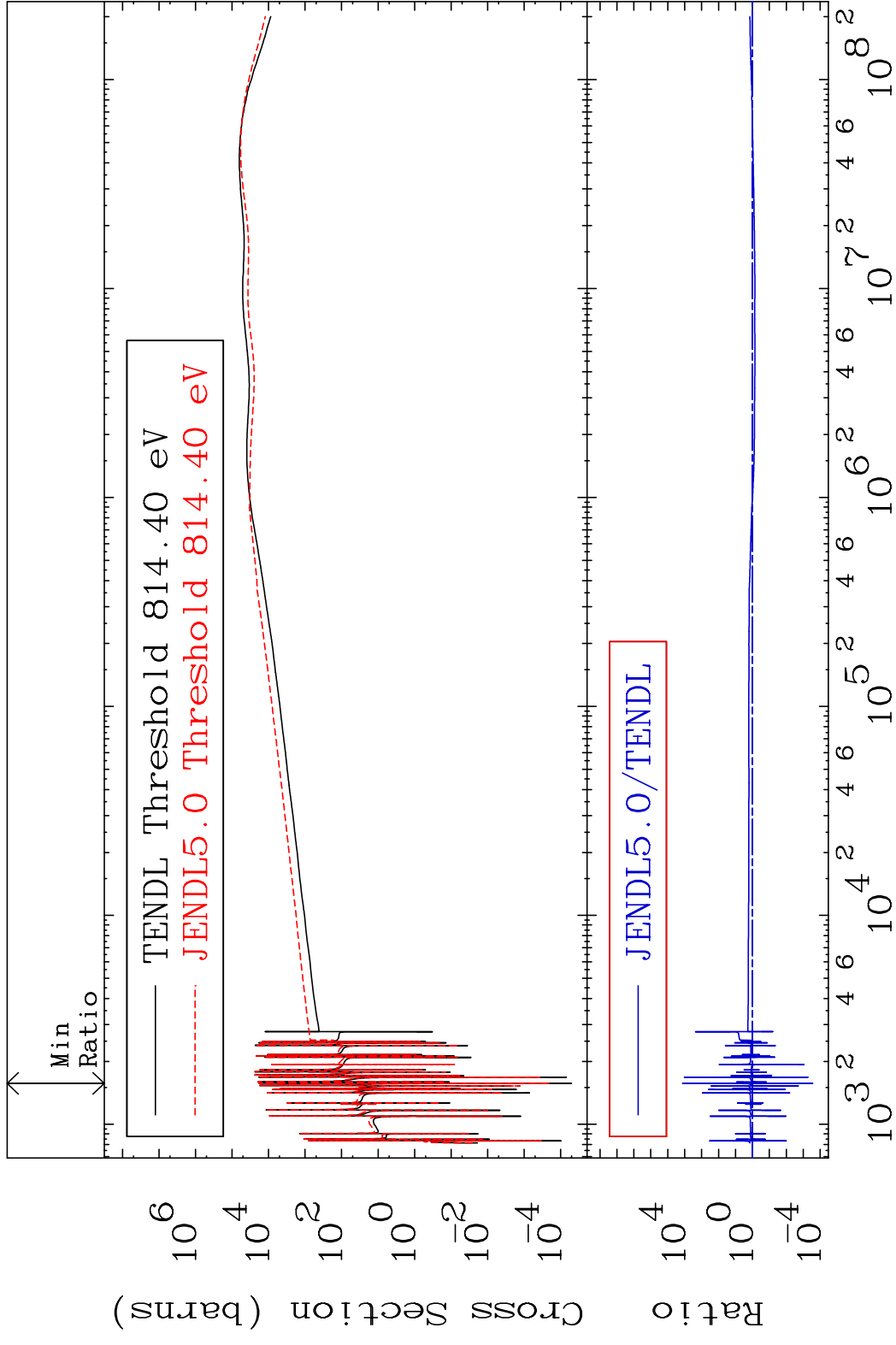
MAT 5625

Dpa elastic (mt2)

56-Ba-130

Cross Section

-99.97 To 9999. %



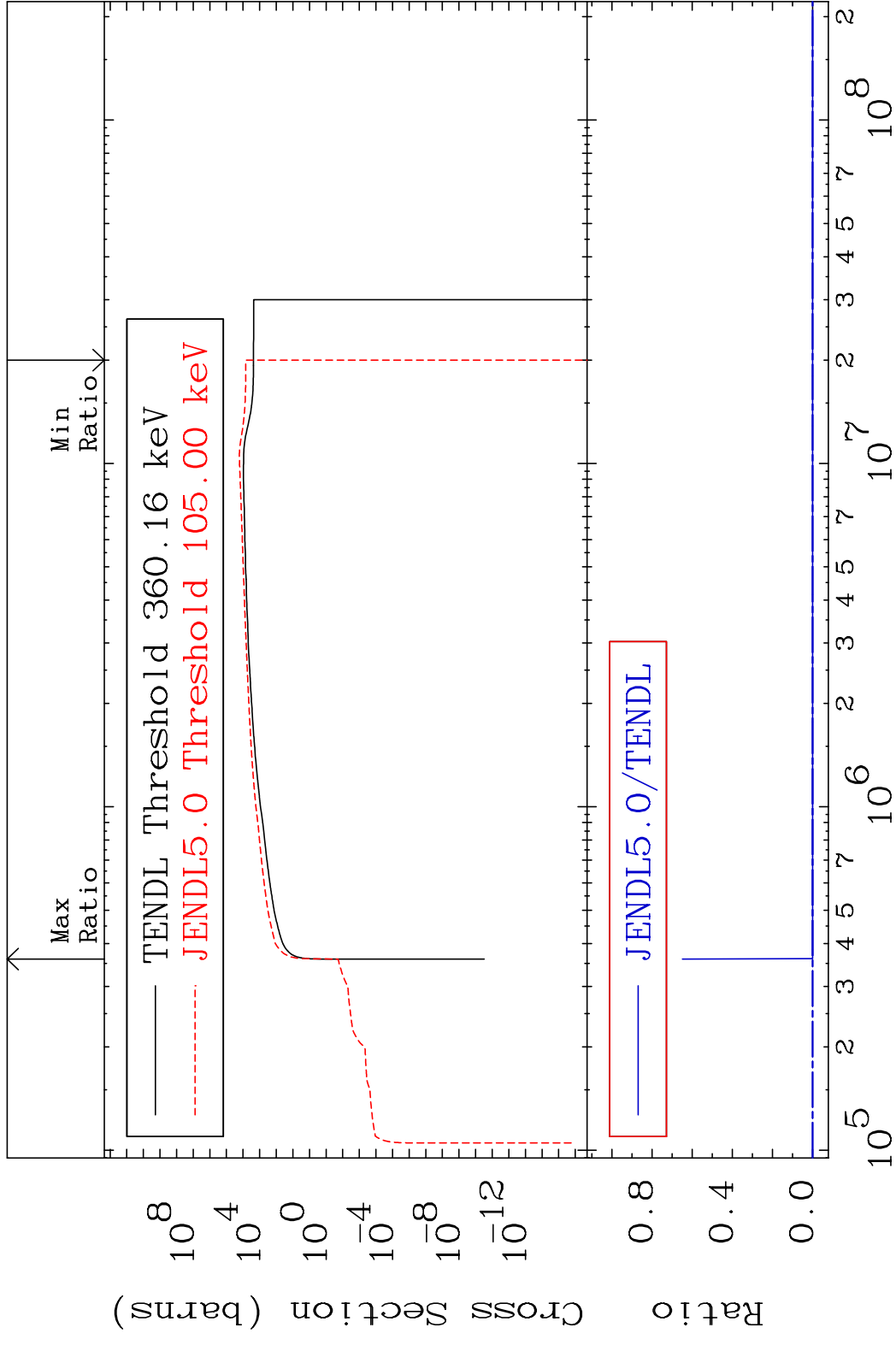
63

Incident Energy (eV)

56-Ba-130

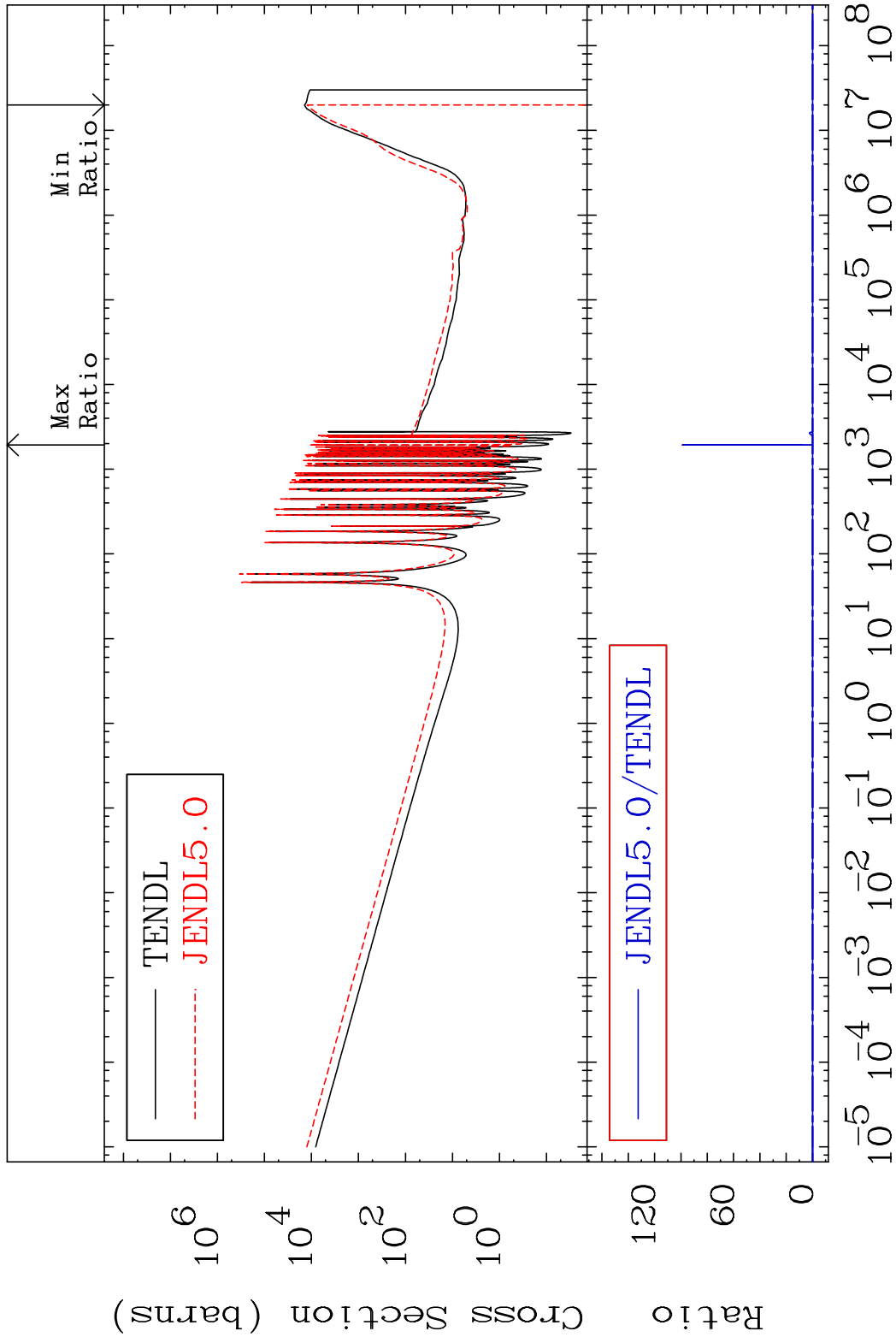


MAT 5625 Dpa inelastic (mt51-91) 56-Ba-130  
 Cross Section -100.0 To 9999. %



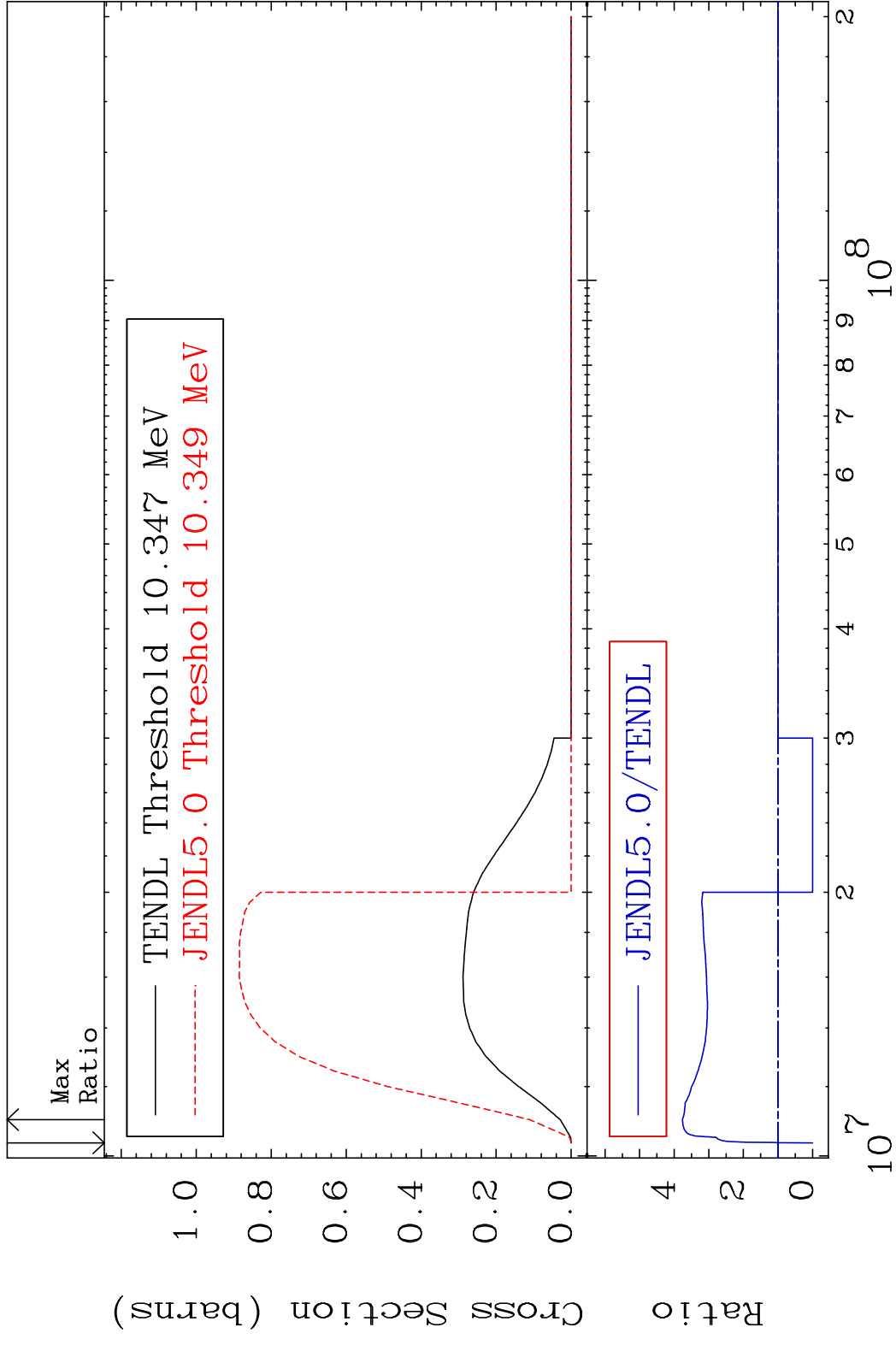
64 Incident Energy (eV) 56-Ba-130

MAT 5625 Dpa disappearance (mt102 -120) 56-Ba-130  
 Cross Section -100.0 To 9999. %

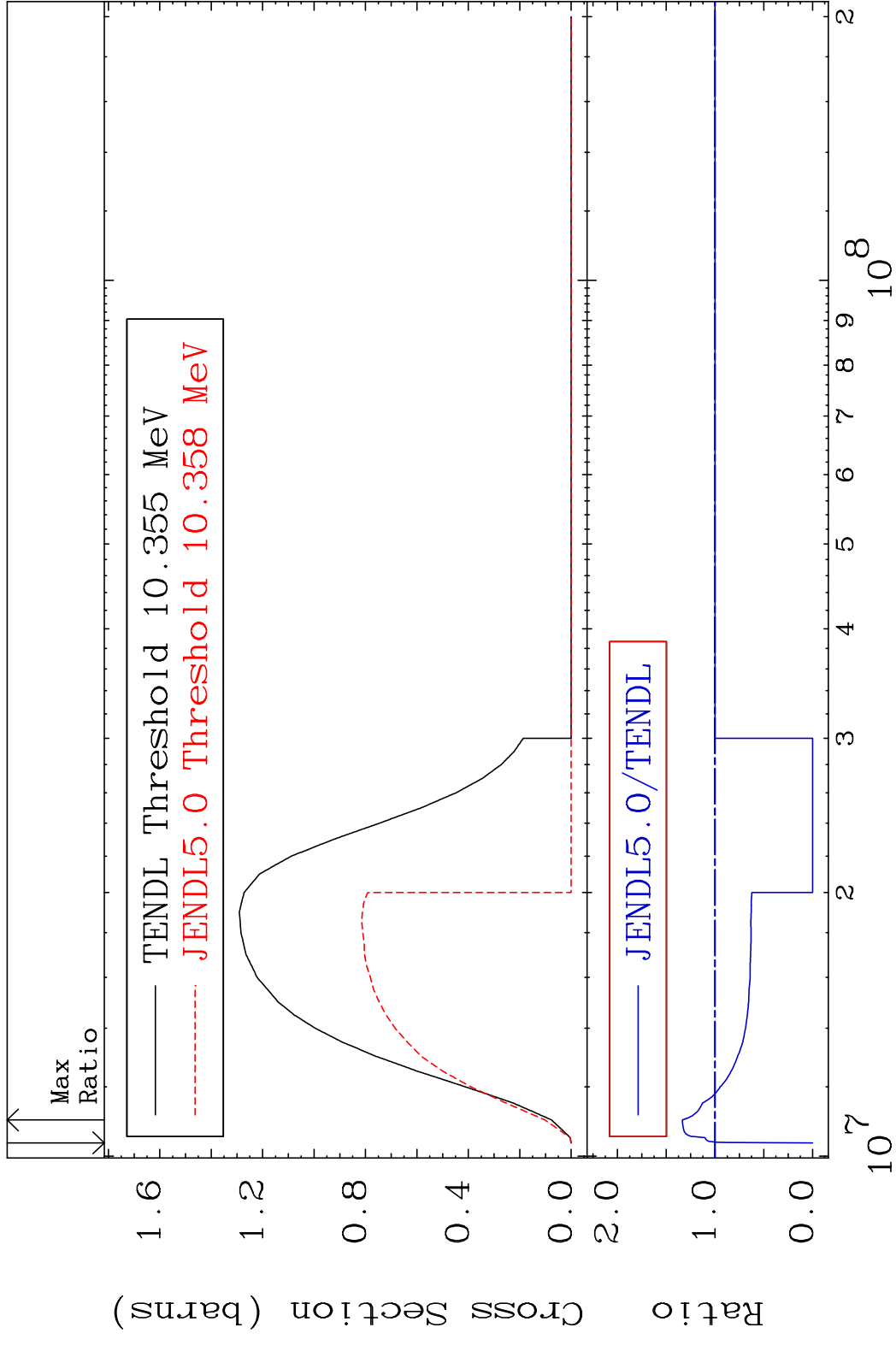


65 Incident Energy (eV) 56-Ba-130

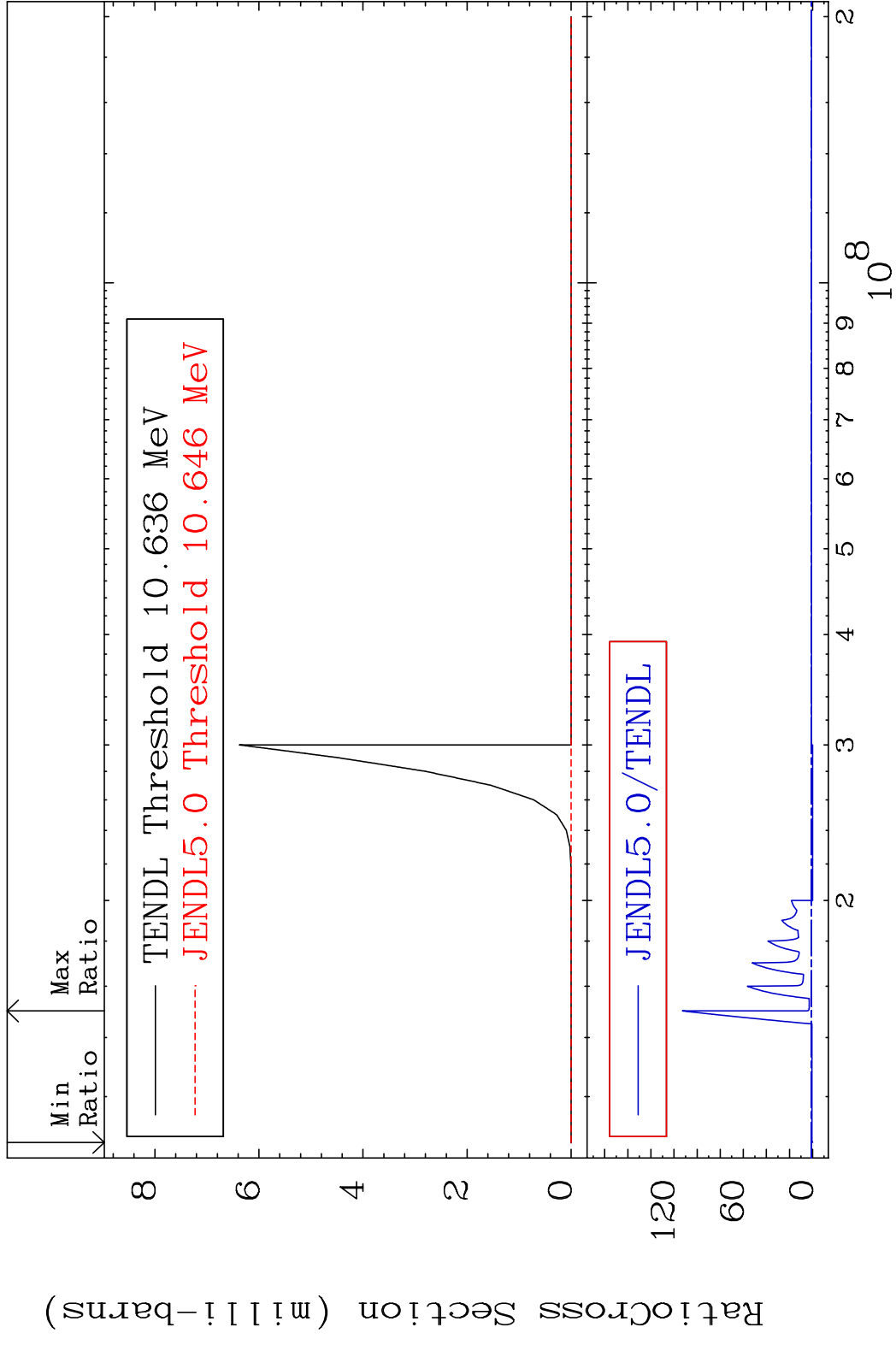
MAT 5625 (n,2n):56-Ba-129g 56-Ba-130  
 Radionuclide Production Cross Section 180.0 dth 276.4 %

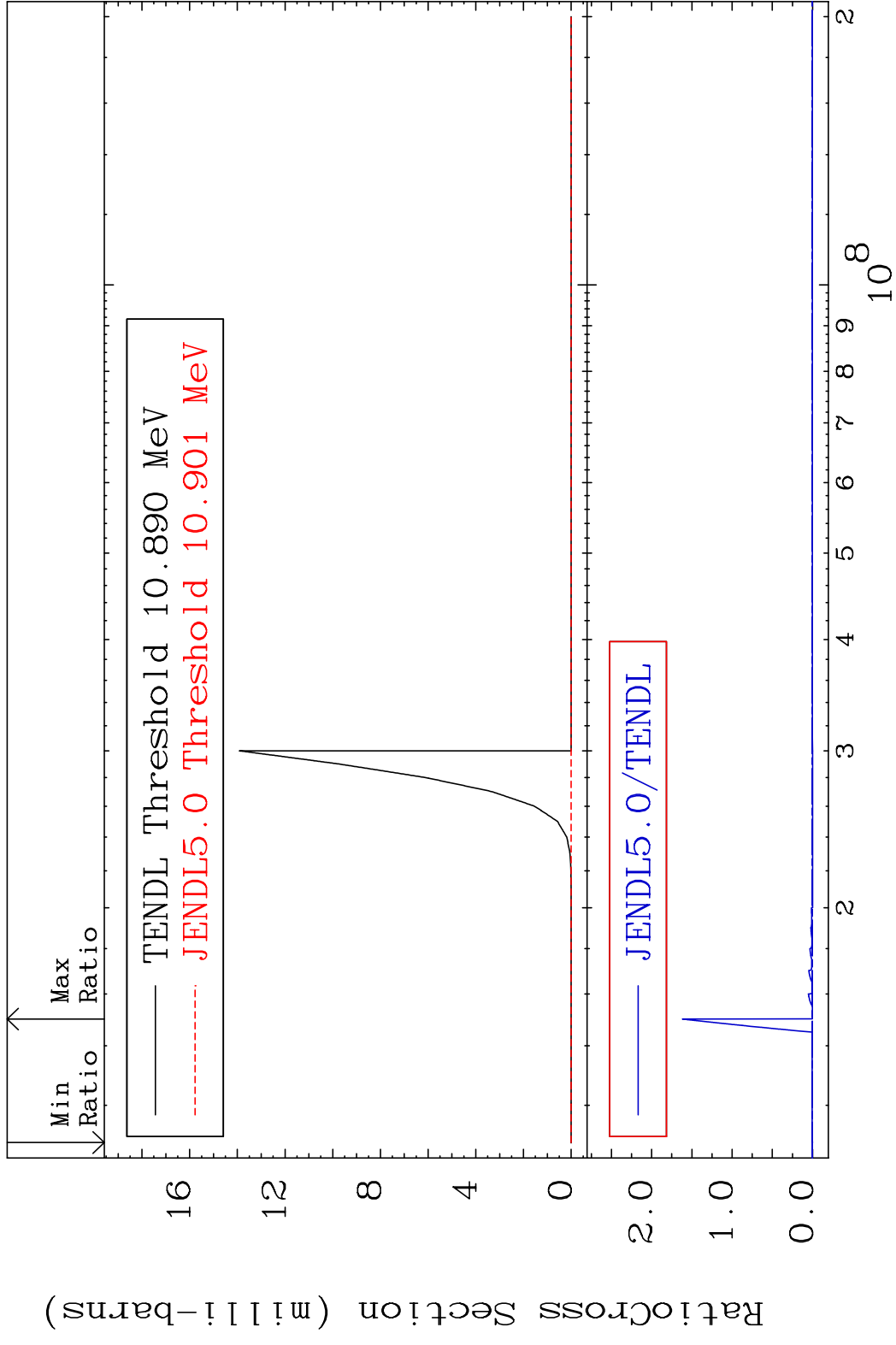


MAT 5625 (n,2n):56-Ba-129m1 56-Ba-130  
 Radionuclide Production Cross Section Ratio 33.48 %

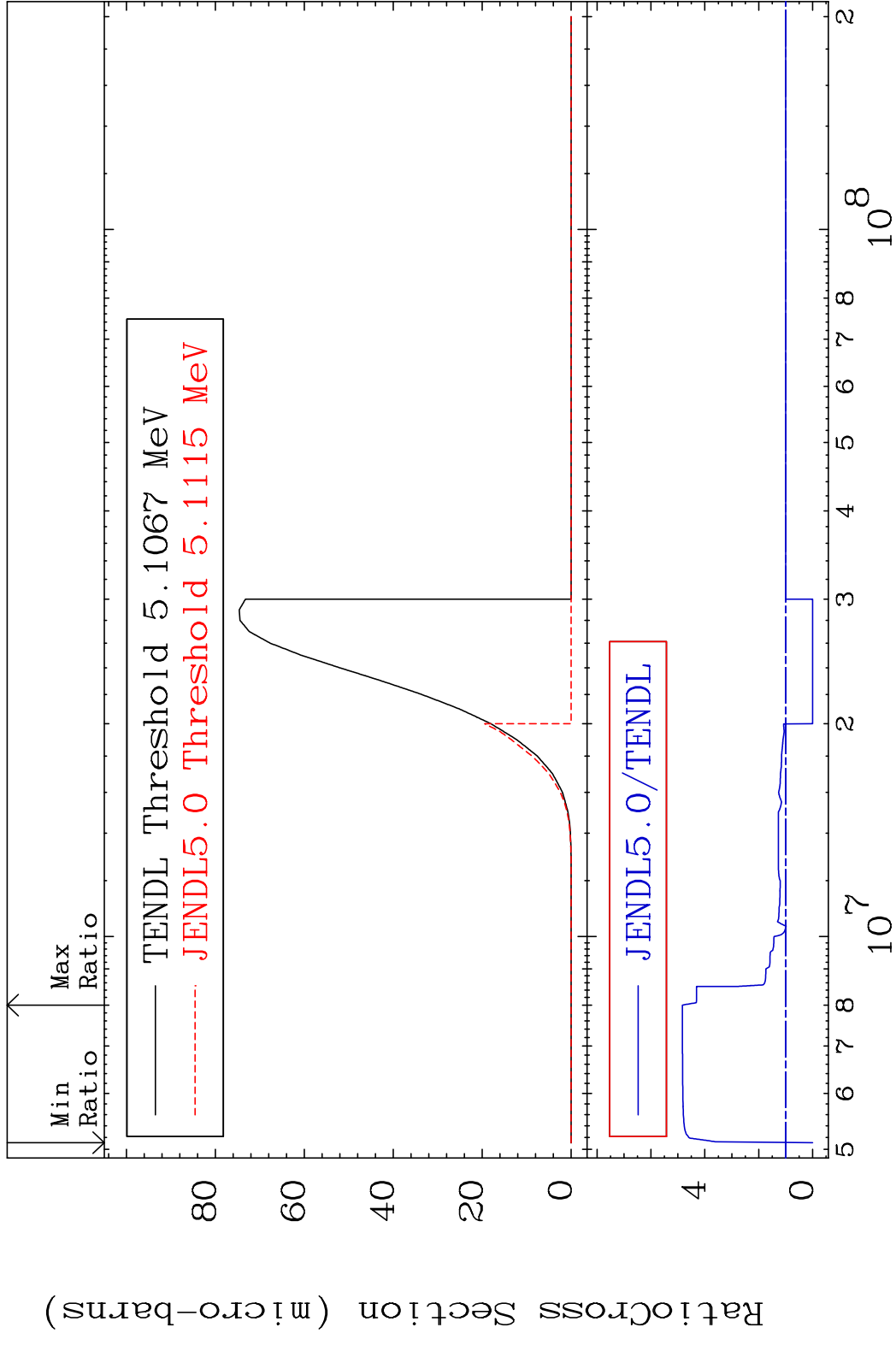


MAT 5625 (n,2n)  $\alpha$ :54-Xe-125g 56-Ba-130  
 Radionuclide Production Cross Section Ratio 9999. %





MAT 5625 (n,2p):54-Xe-129g 56-Ba-130  
 Radionuclide Production Cross Section 1800.0 dth 383.5 %



70 Incident Energy (eV) 56-Ba-130

MAT 5625 (n, 2p) :54-Xe-129m2 56-Ba-130  
 Radionuclide Production Cross Section 180.0 dth 280.4 %

