

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

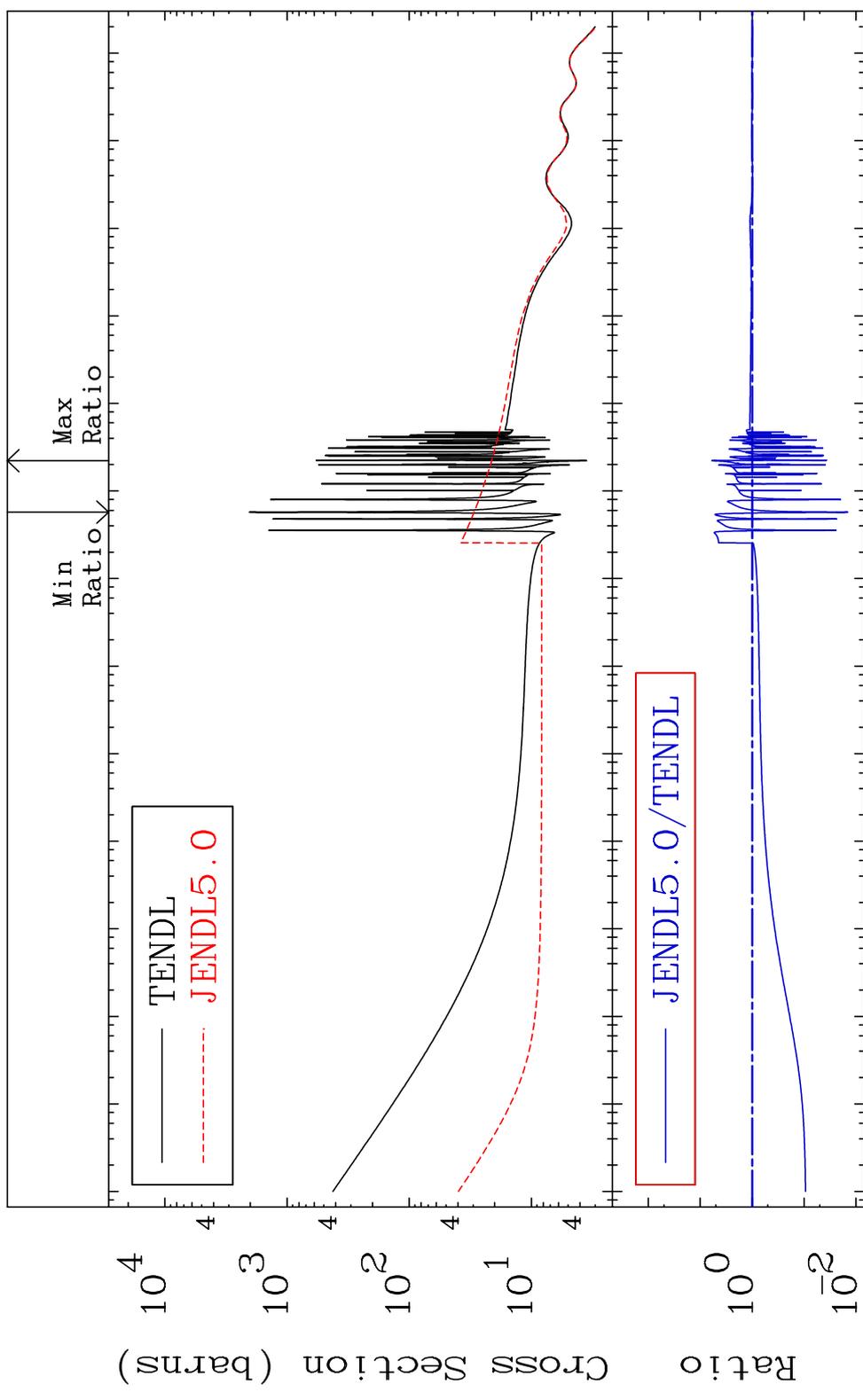
MAT 8322

Total

83-Bi-208

Cross Section

-98.55 To 499.6 %



1

Incident Energy (eV)

83-Bi-208

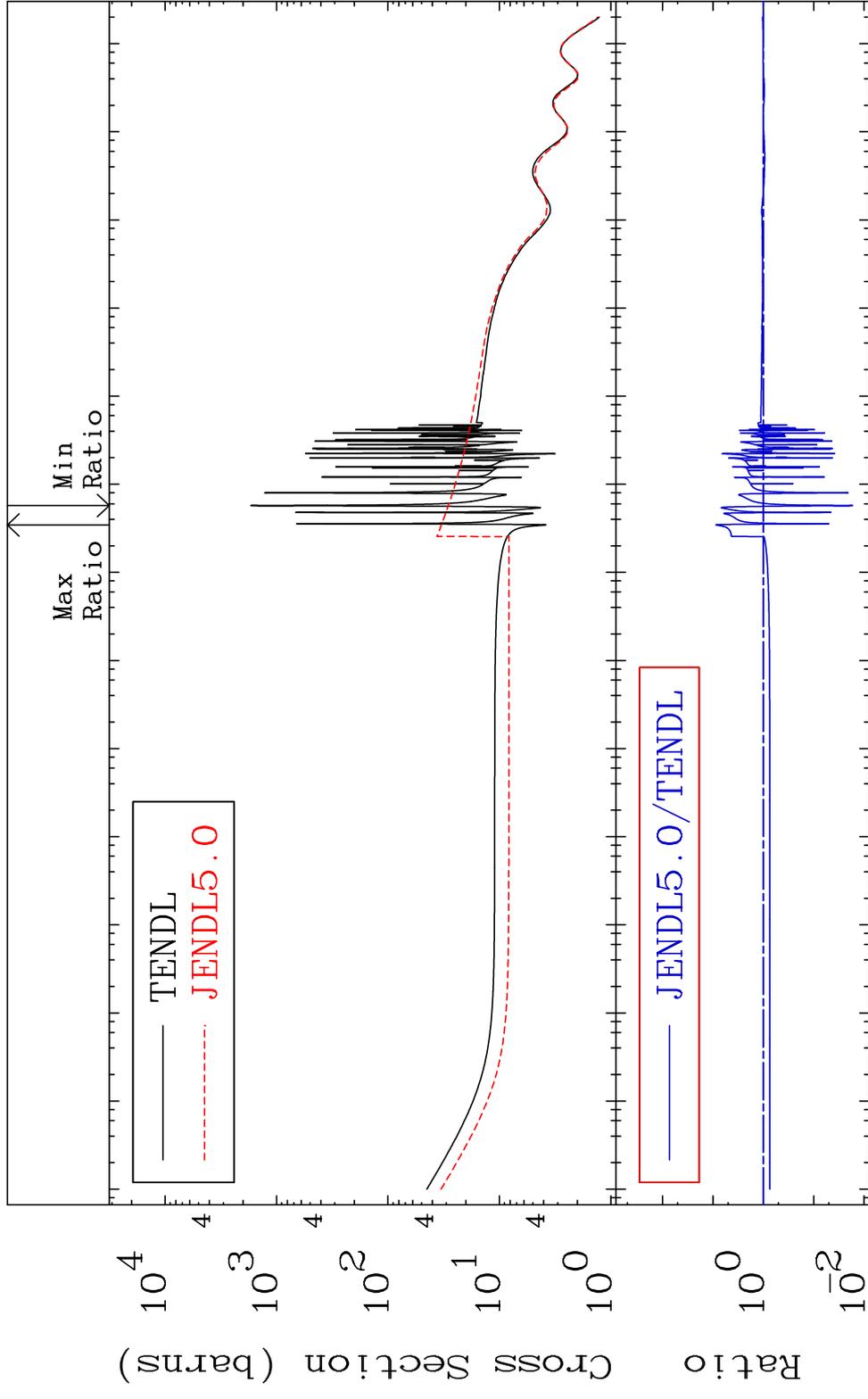
MAT 8322

Elastic

83-Bi-208

Cross Section

-98.30 To 774.4 %



10⁴ 10³ 10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵

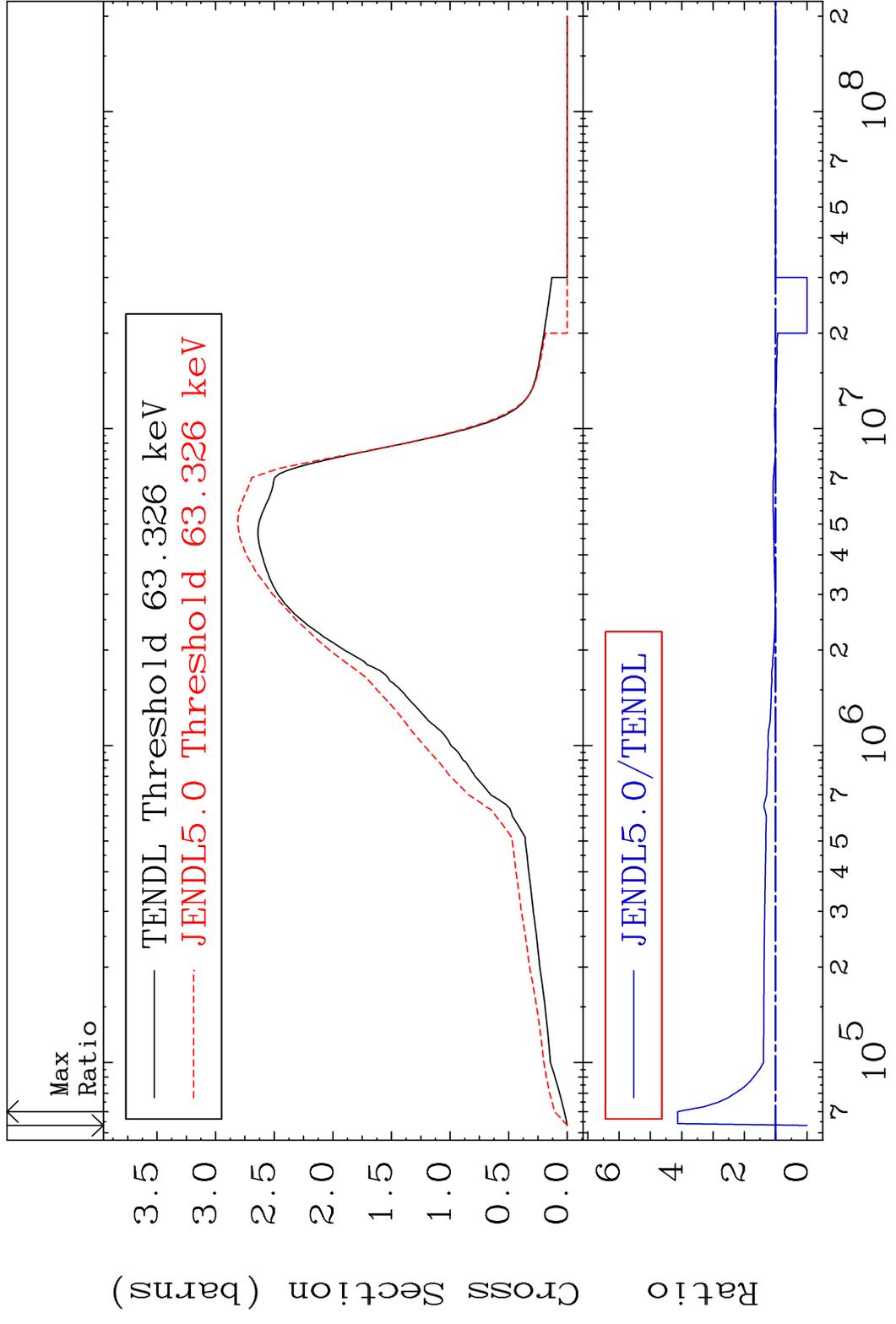
10⁸ 10⁷ 10⁶ 10⁵ 10⁴ 10³ 10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵

2

Incident Energy (eV)

83-Bi-208

MAT 8322 Inelastic 83-Bi-208
 Cross Section -100.0 To 312.8 %



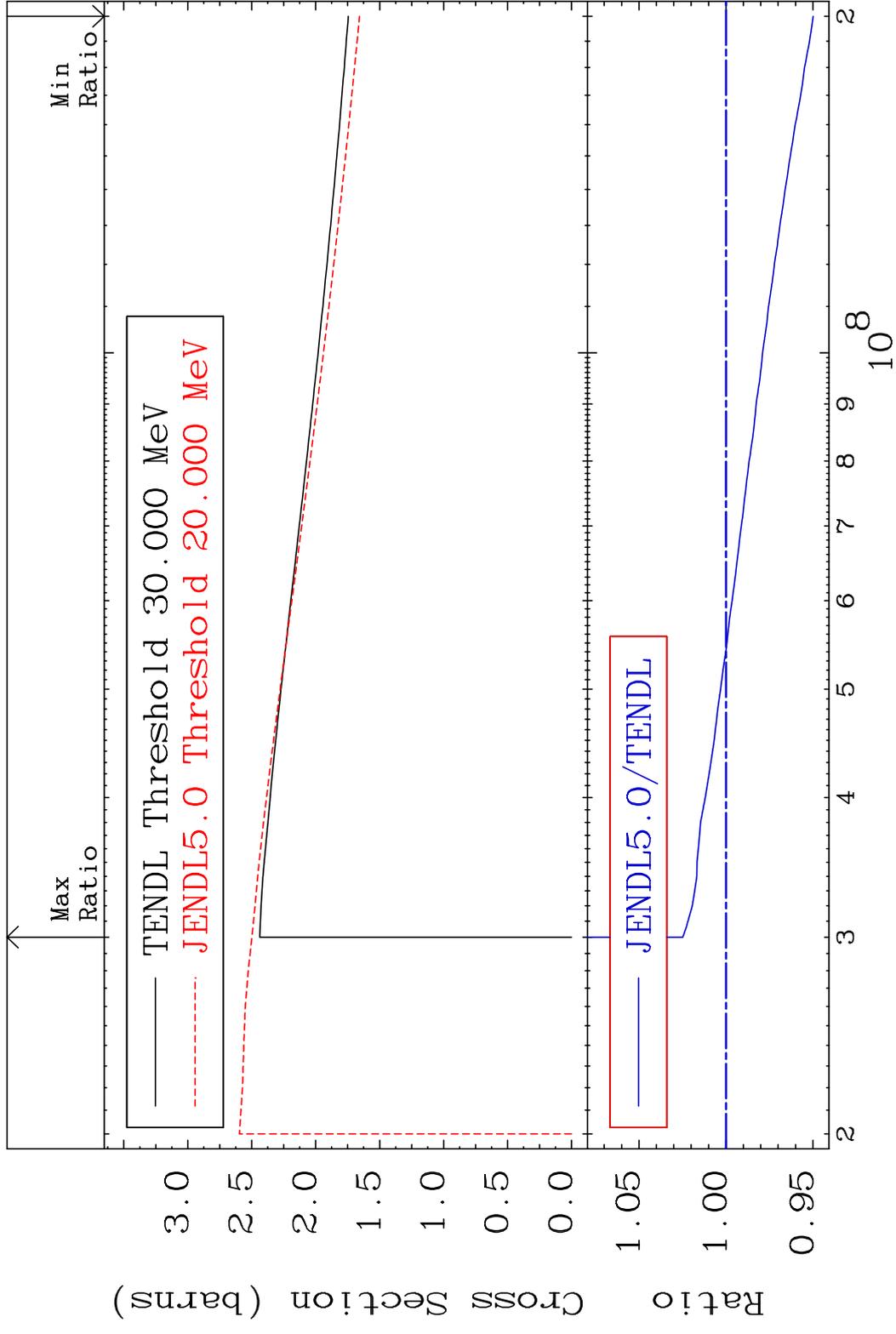
3 Incident Energy (eV) 83-Bi-208

MAT 8322

(n, remainder)

83-Bi-208

Cross Section -5.012 To 2.481 %

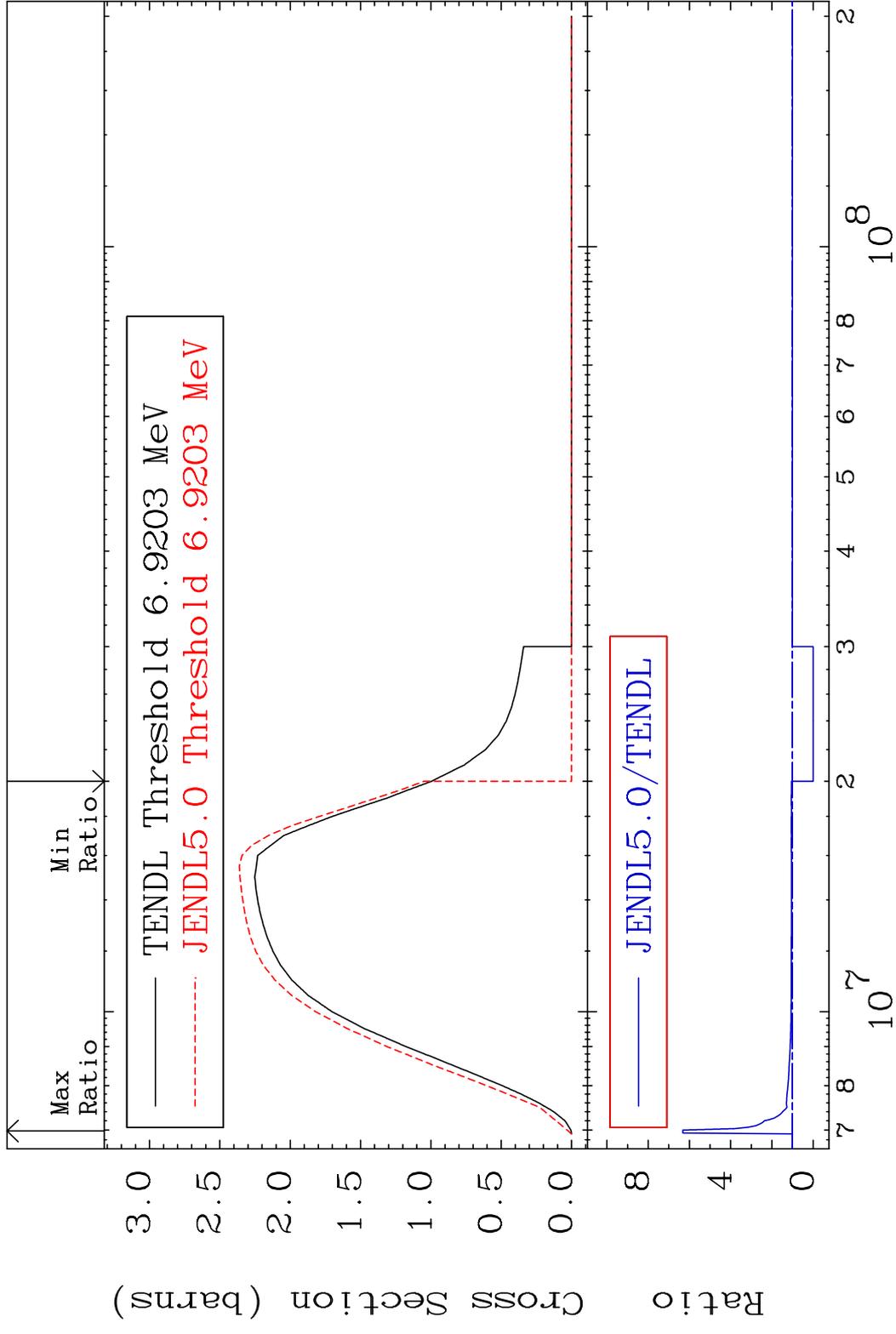


4

Incident Energy (eV)

83-Bi-208

MAT 8322 (n,2n) 83-Bi-208
 Cross Section -100.0 To 531.9 %



5 Incident Energy (eV) 83-Bi-208

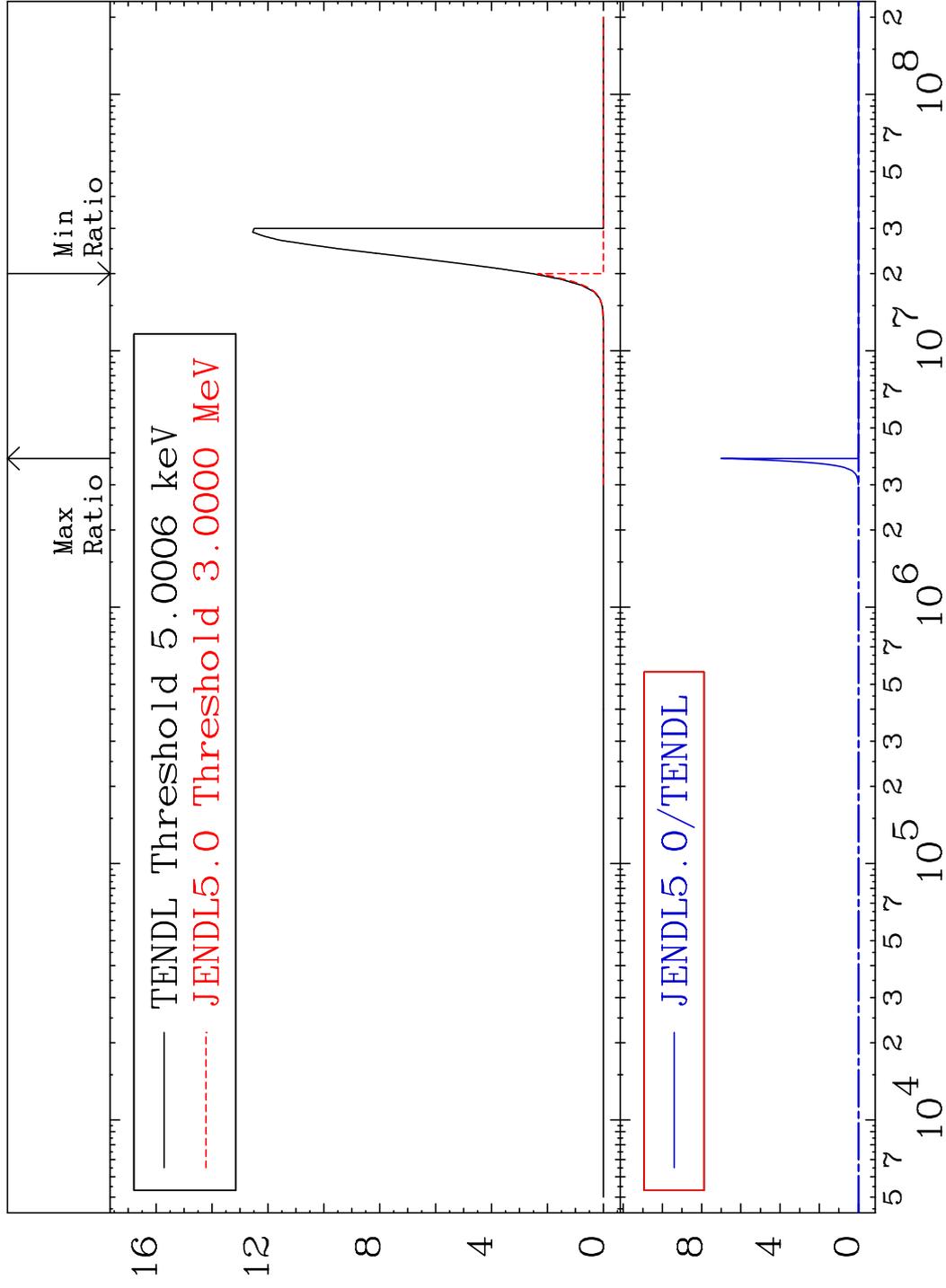
MAT 8322

(n, n') α

83-Bi-208

Cross Section -100.0 To 9999. %

RatioCross Section (milli-barns)

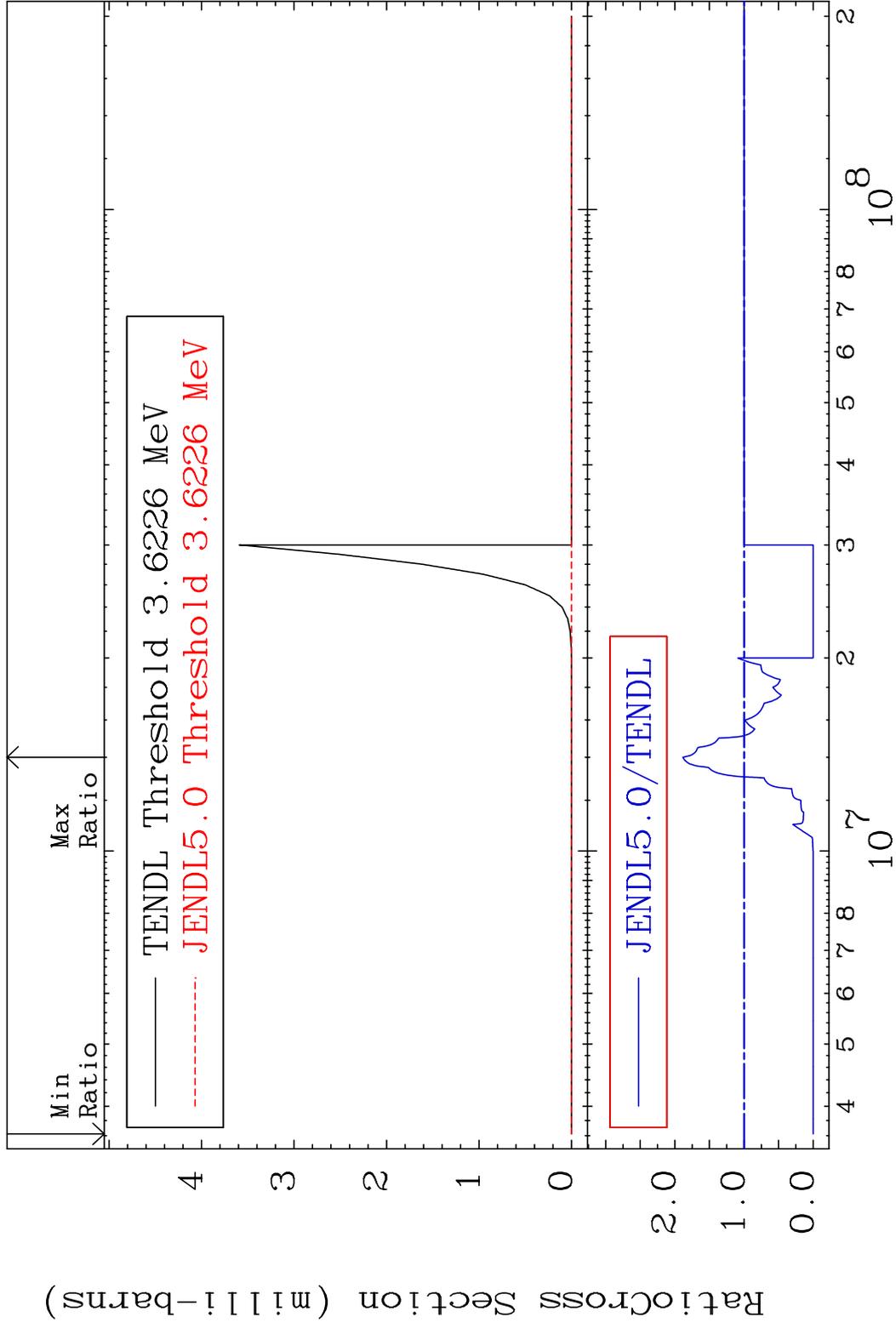


7

Incident Energy (eV)

83-Bi-208

MAT 8322 (n,2n) α 83-Bi-208
 Cross Section -100.0 To 88.44 %

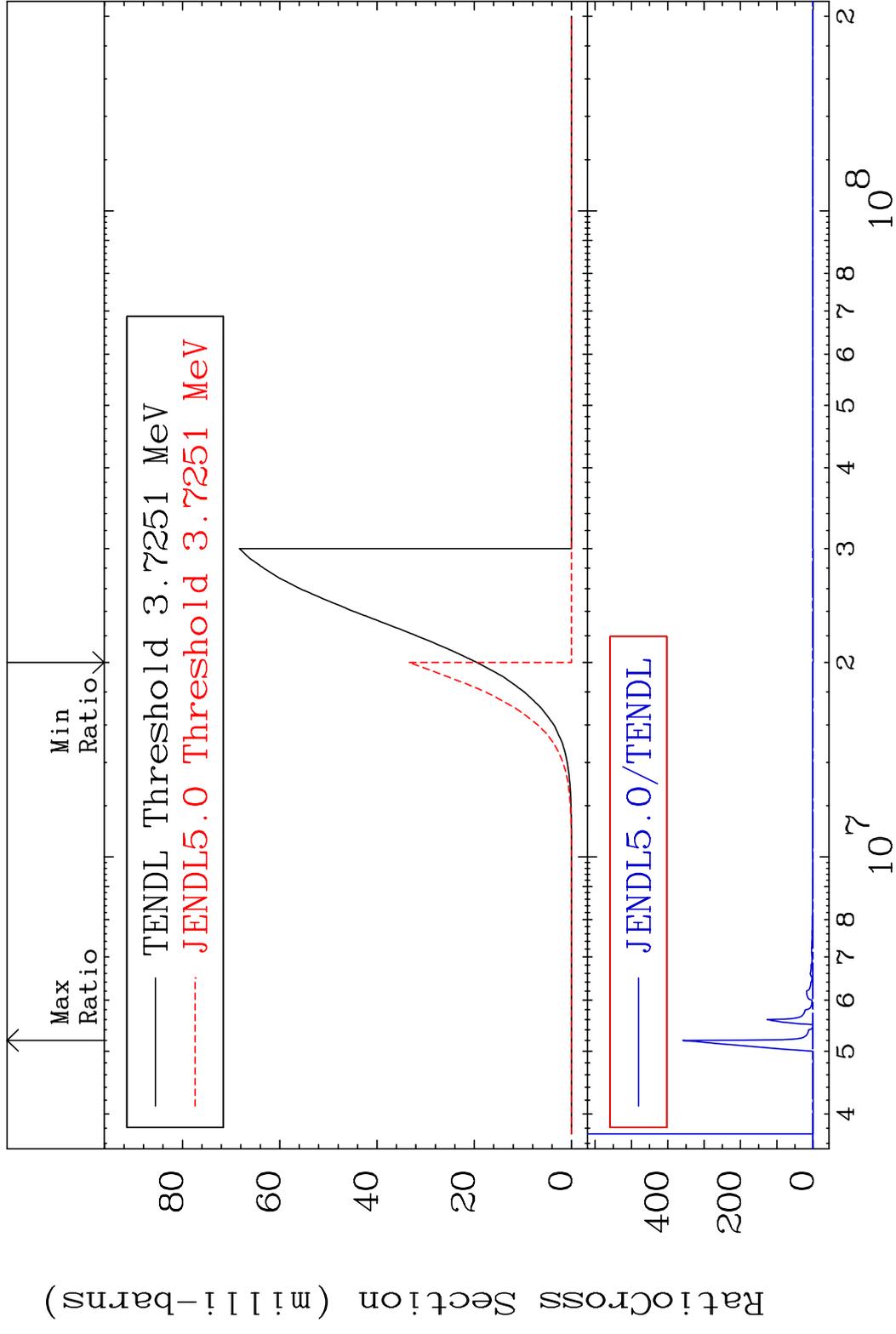


MAT 8322

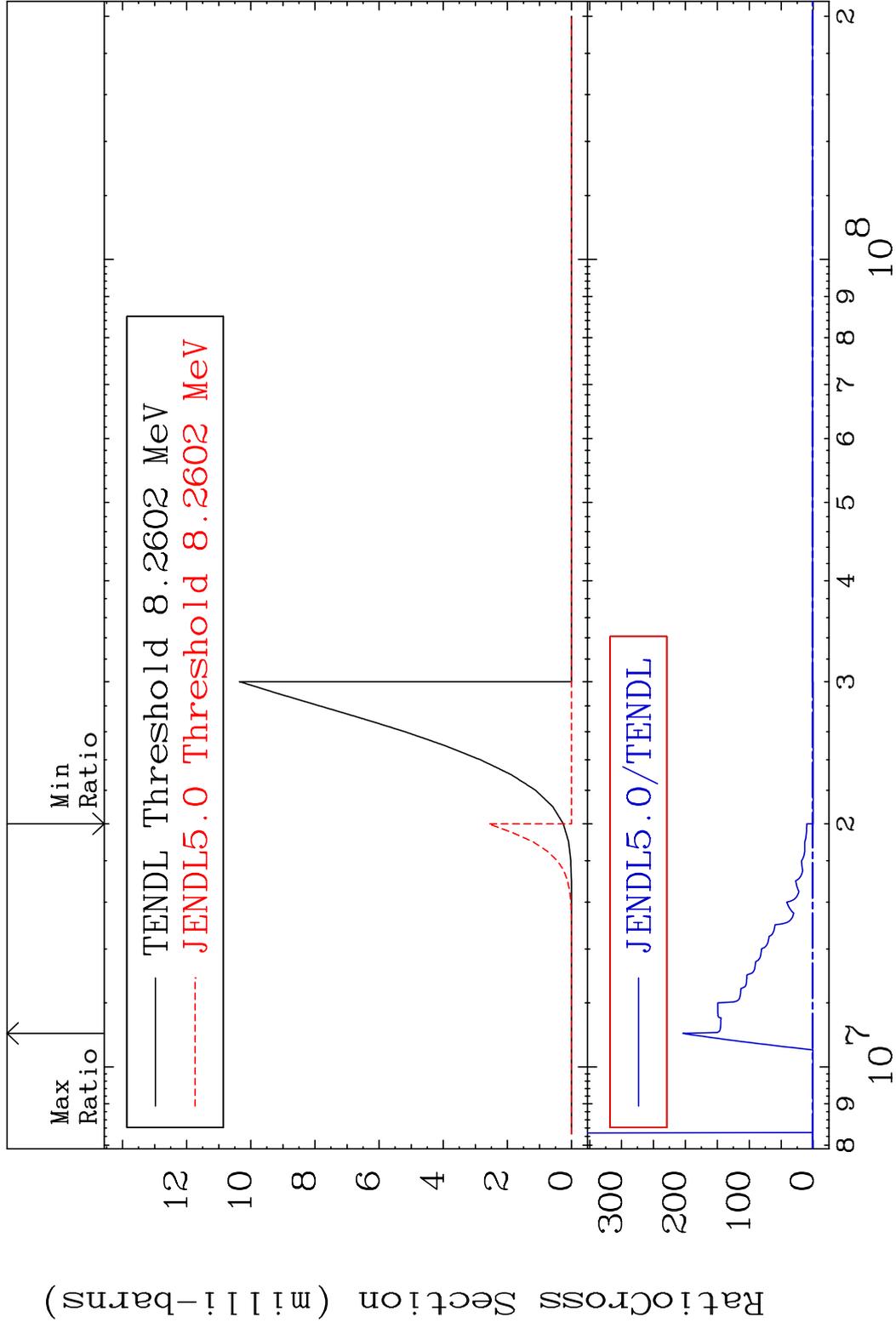
(n, n') p

83-Bi-208

Cross Section -100.0 To 9999. %

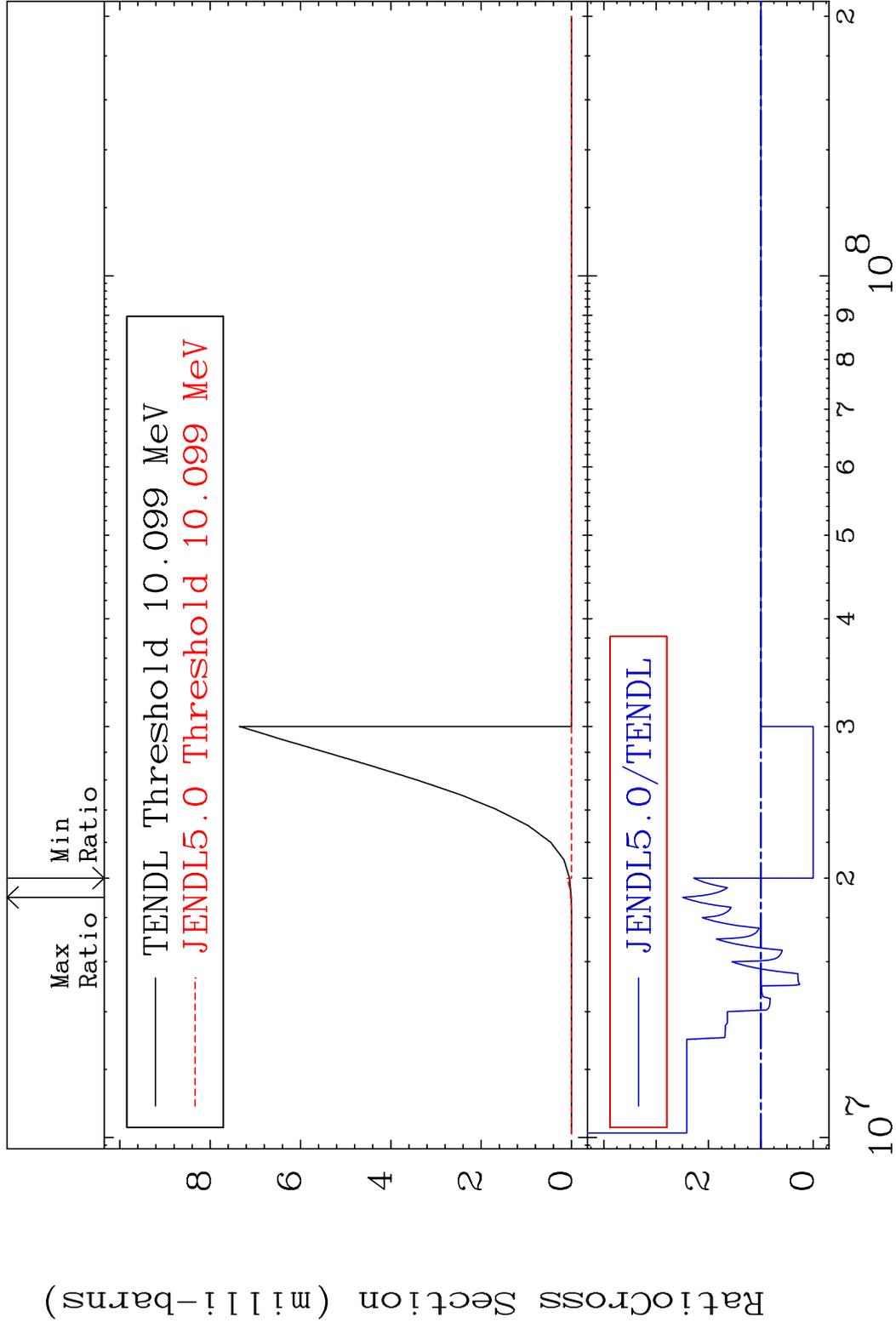


MAT 8322 (n, n') d 83-Bi-208
 Cross Section -100.0 To 9999. %



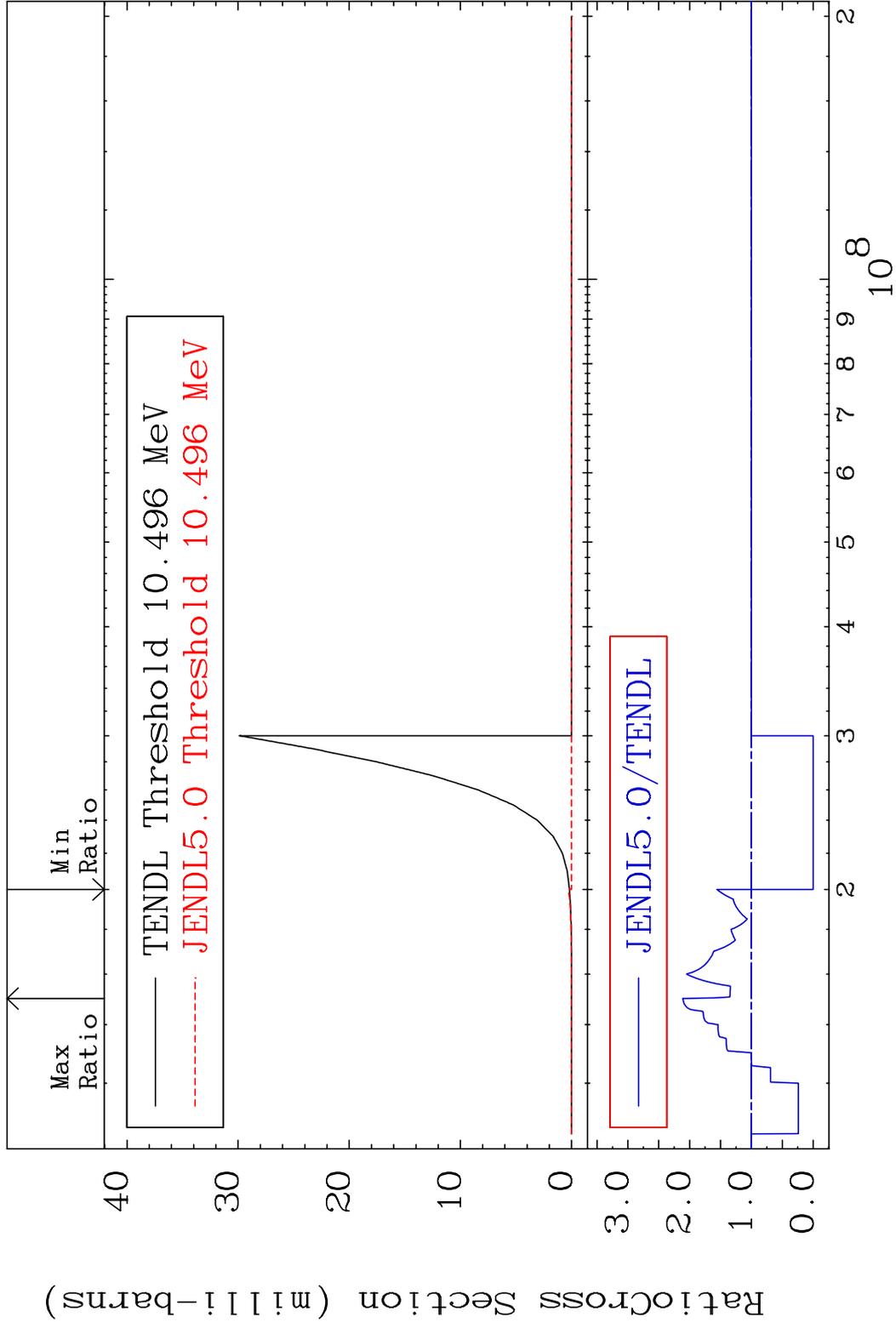
10 10 Incident Energy (eV) 83-Bi-208

MAT 8322 (n, n') t 83-Bi-208
 Cross Section -100.0 To 149.1 %

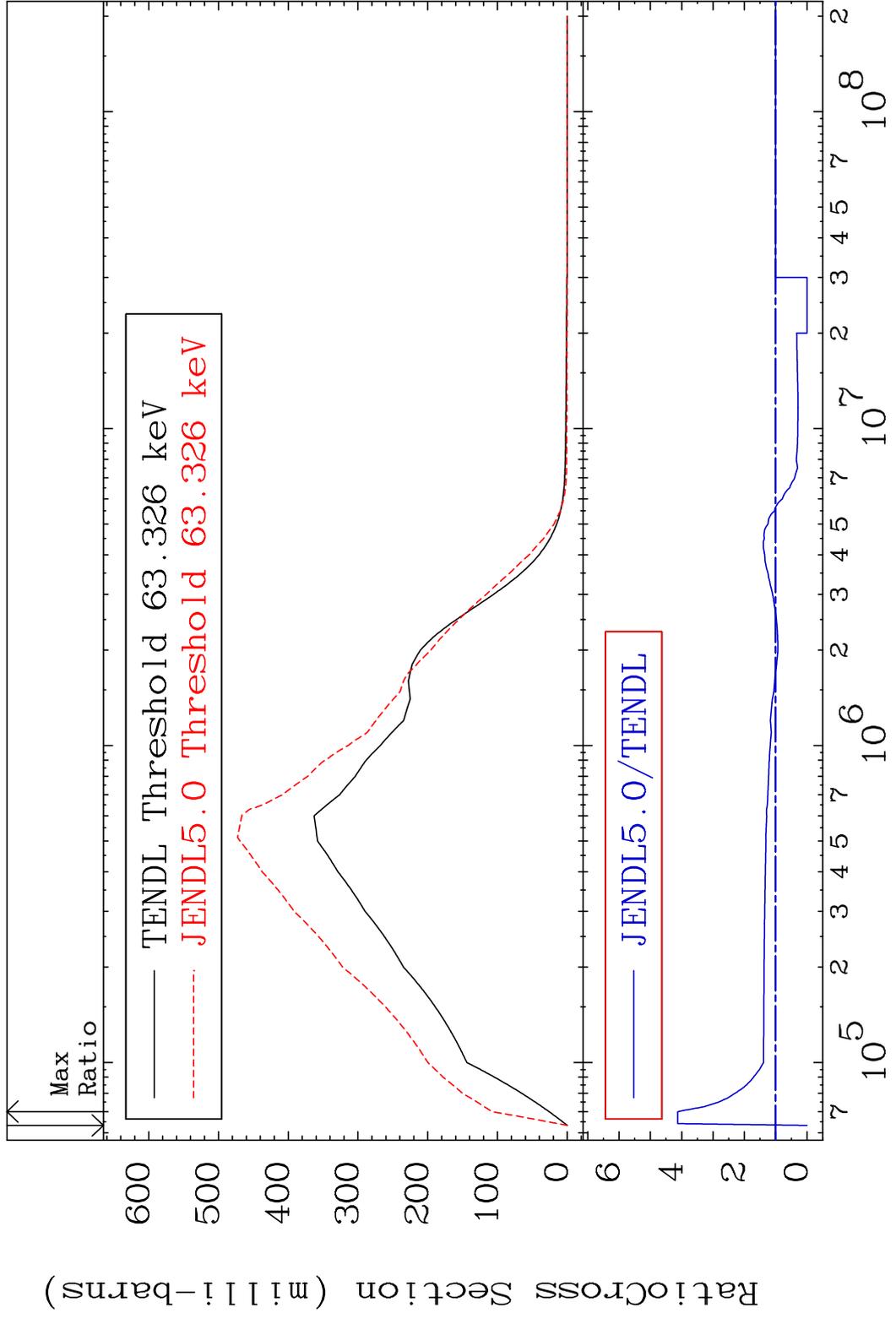


11 Incident Energy (eV) 83-Bi-208

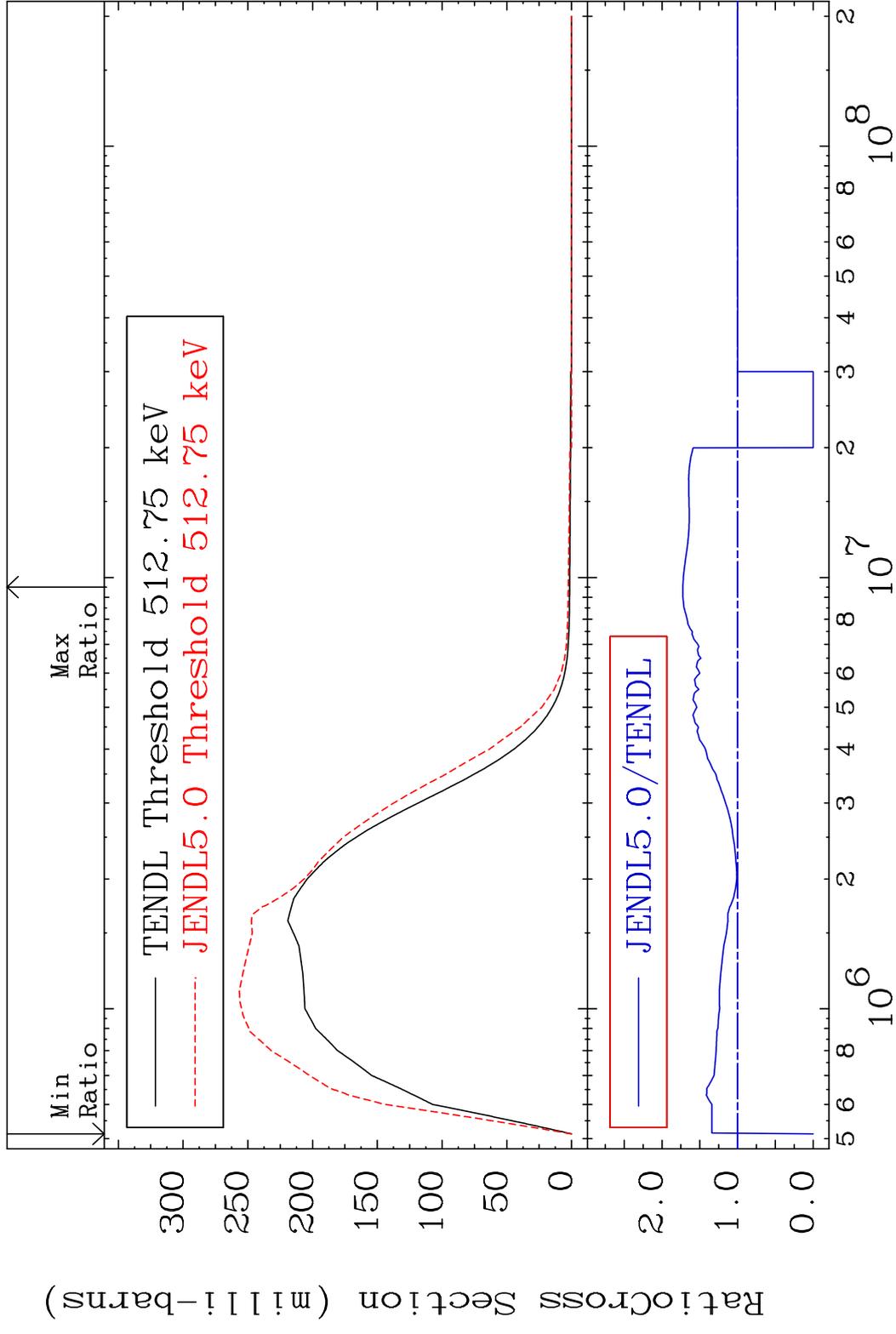
MAT 8322 (n,2n) p 83-Bi-208
 Cross Section -100.0 To 111.1 %



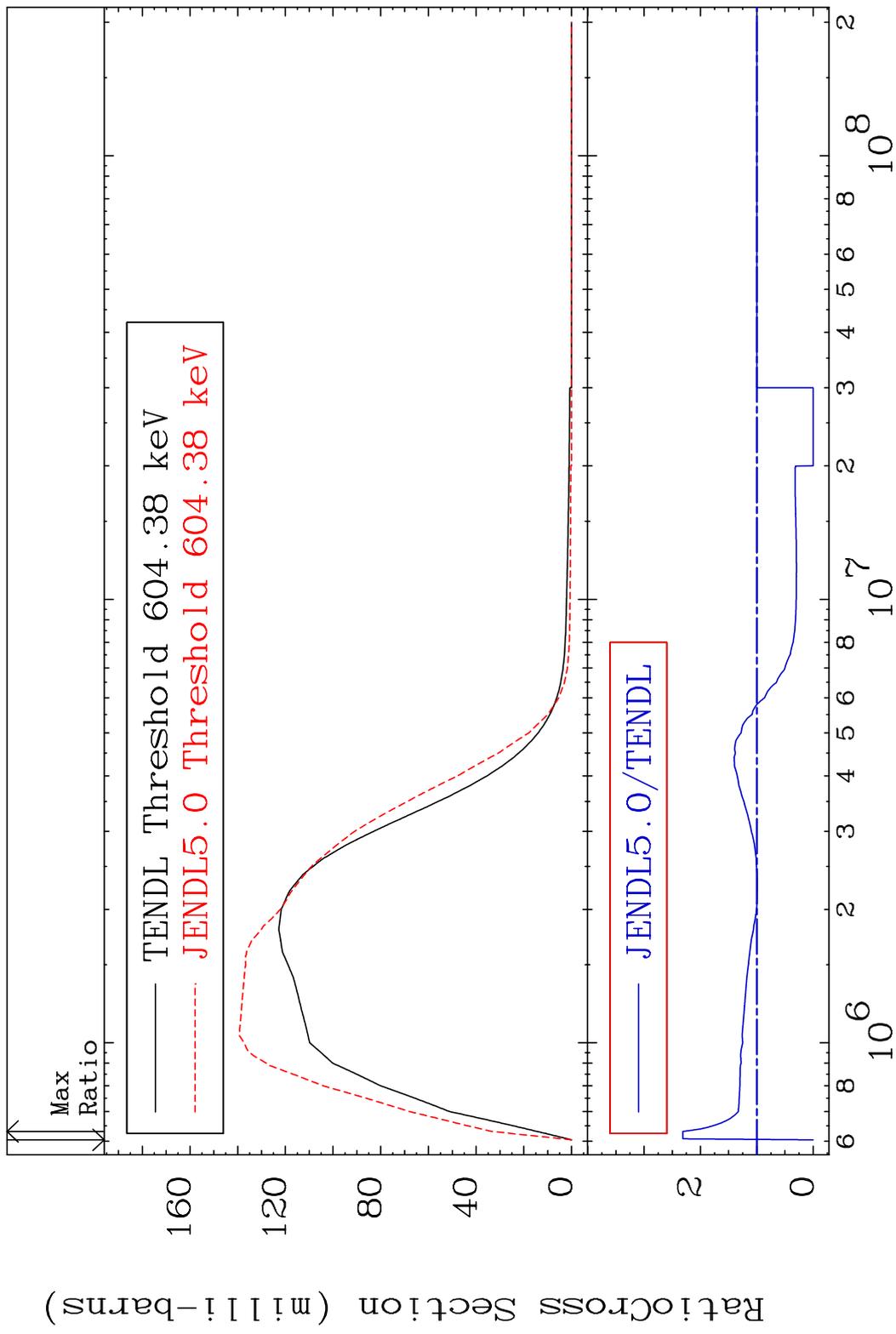
MAT 8322 MT= 51 (n,n') Level 83-Bi-208
 Cross Section -100.0 To 312.8 %



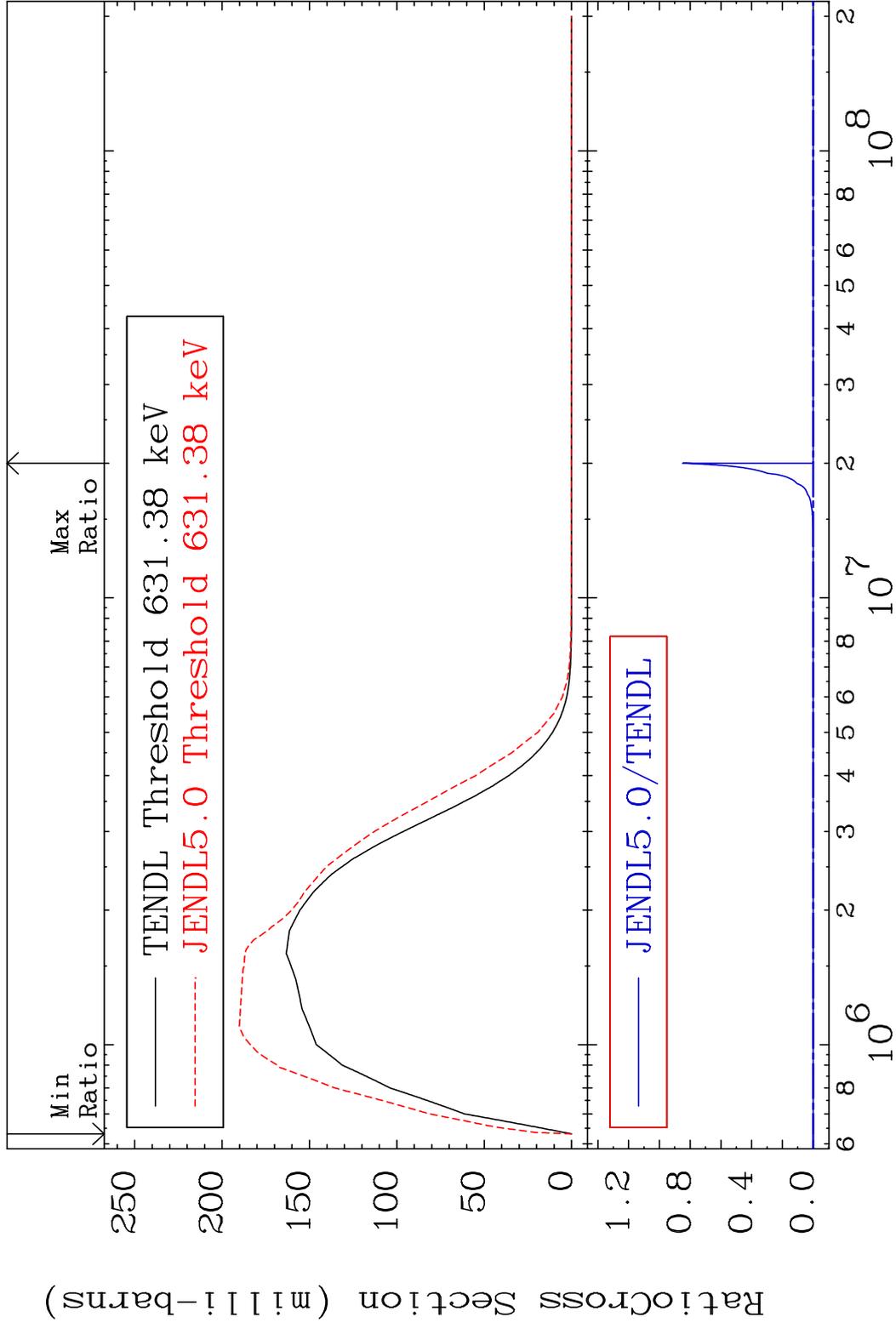
MAT 8322 MT= 52 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 72.43 %



MAT 8322 MT= 53 (n,n') Level 83-Bi-208
 Cross Section -100.0 To 131.3 %

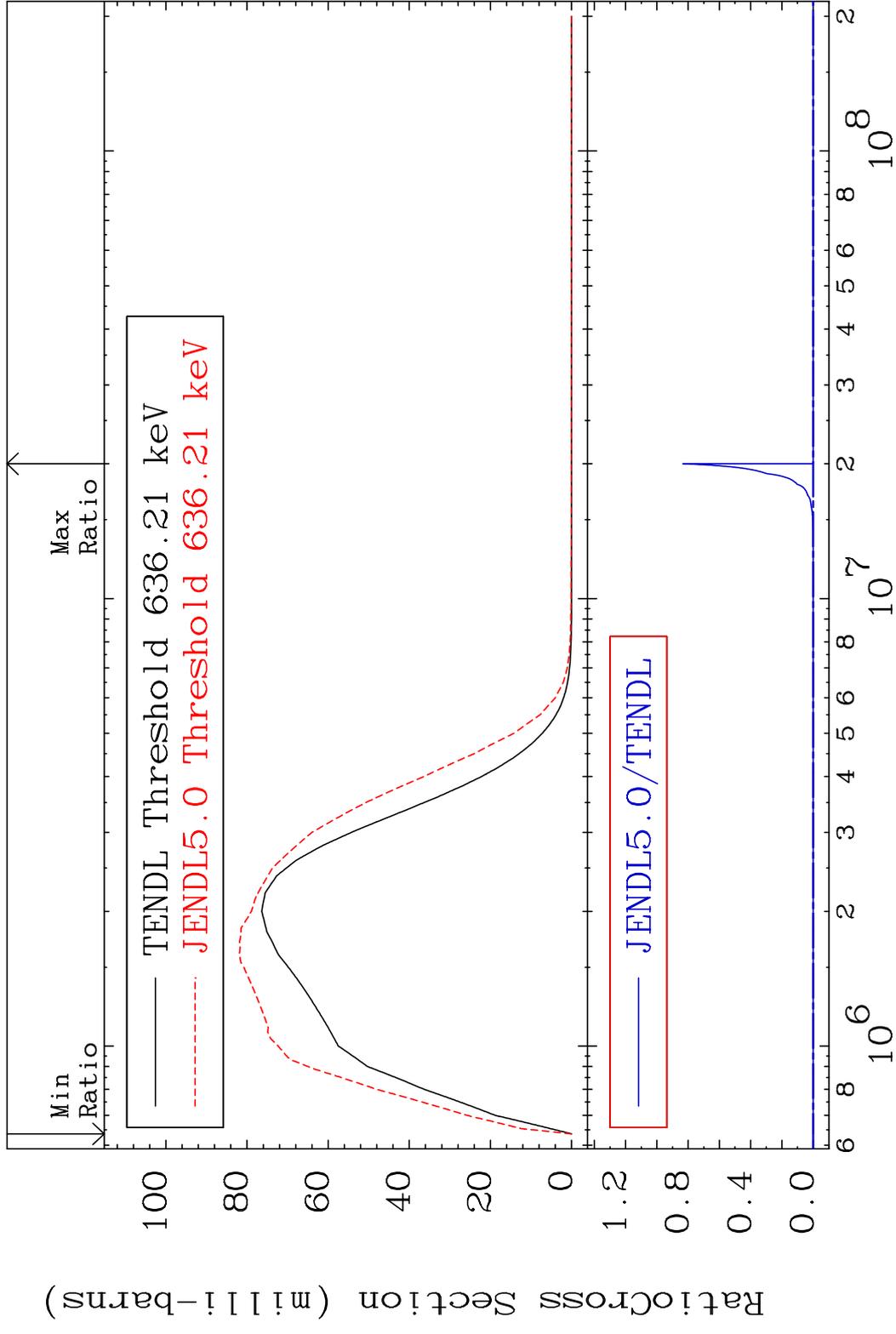


MAT 8322 MT= 54 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 9999. %

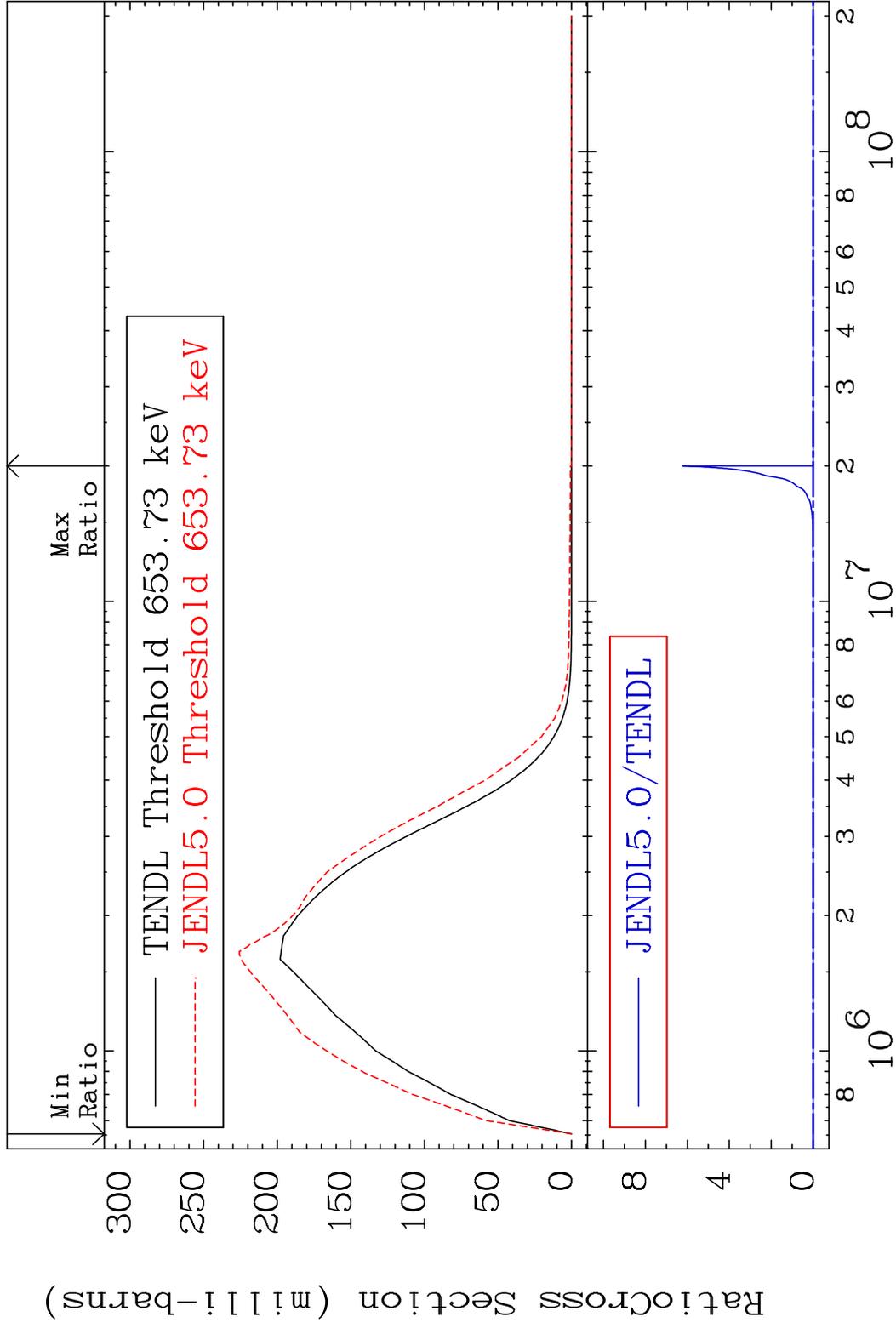


16 Incident Energy (eV) 83-Bi-208

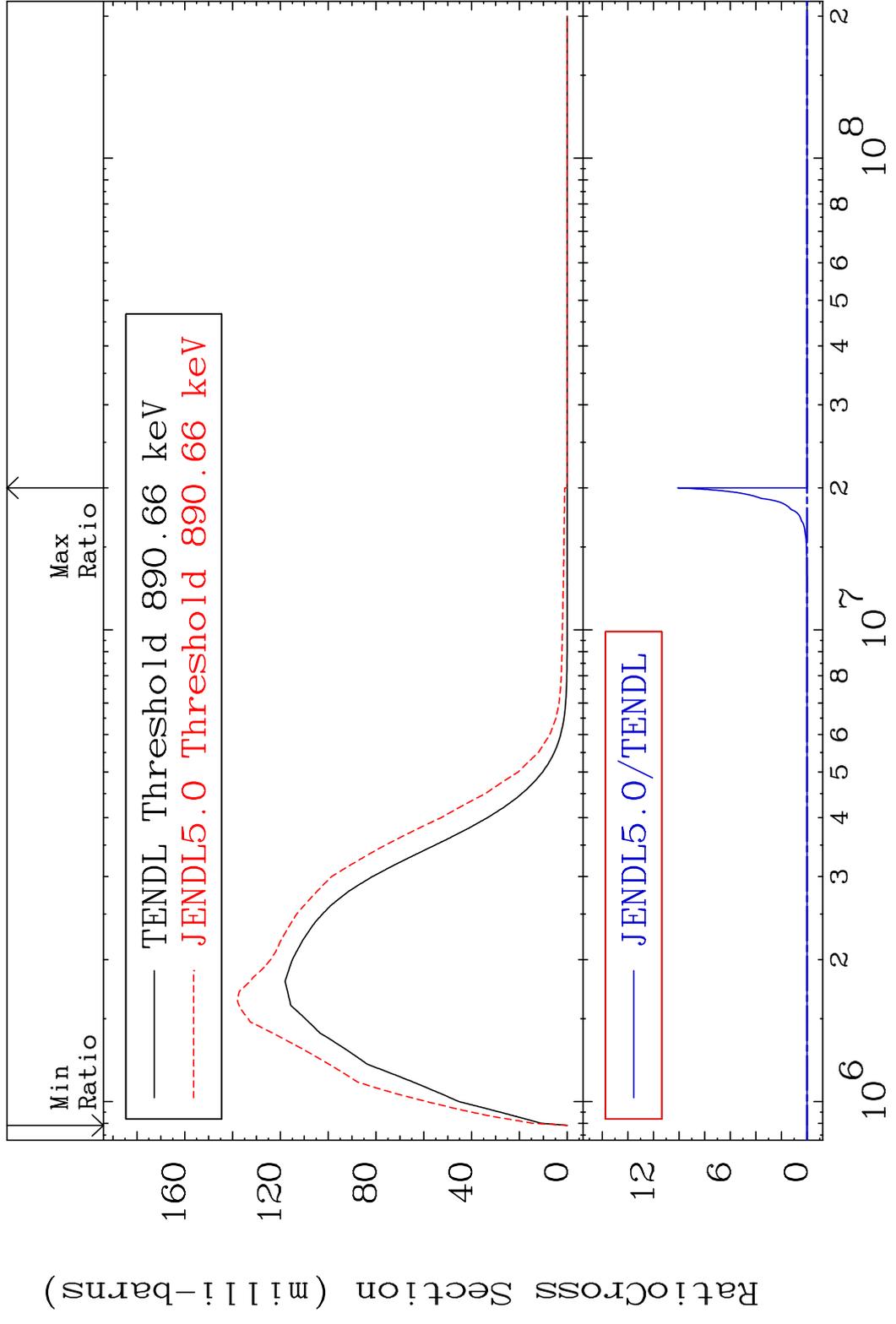
MAT 8322 MT= 55 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 9999. %



MAT 8322 MT= 56 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 9999. %

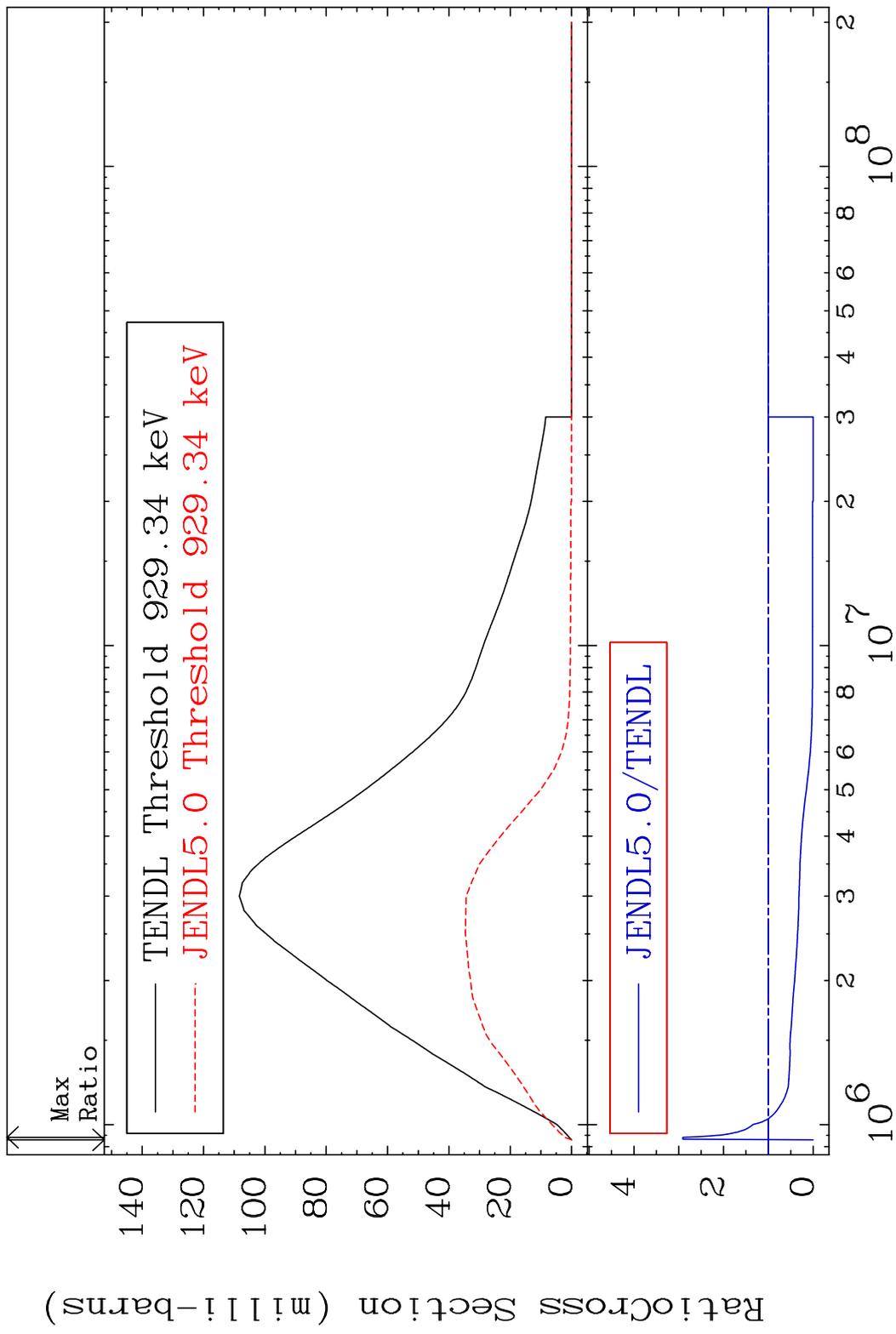


MAT 8322 MT= 57 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 9999. %



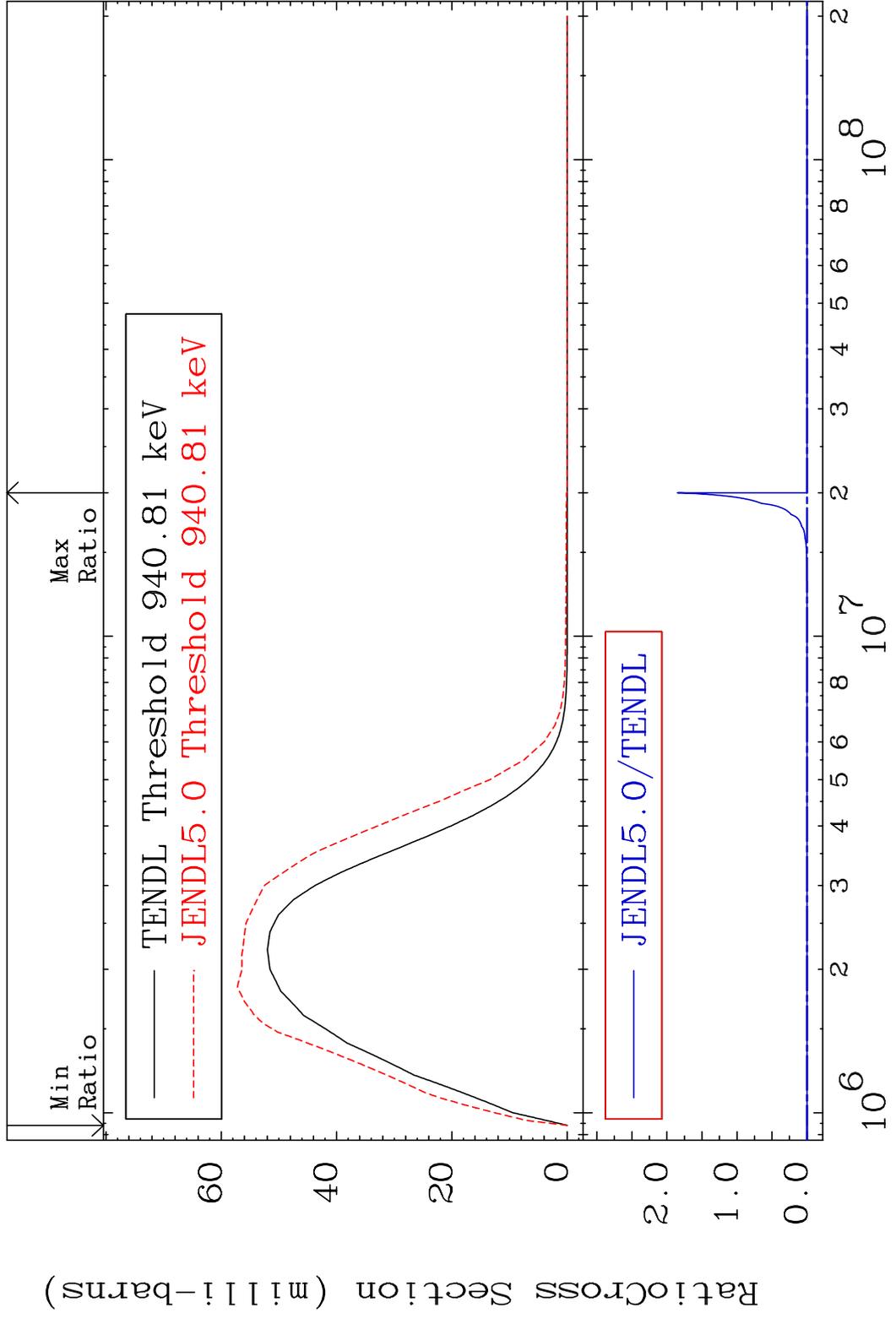
19 Incident Energy (eV) 83-Bi-208

MAT 8322 MT= 58 (n,n') Level 83-Bi-208
 Cross Section -100.0 To 190.8 %



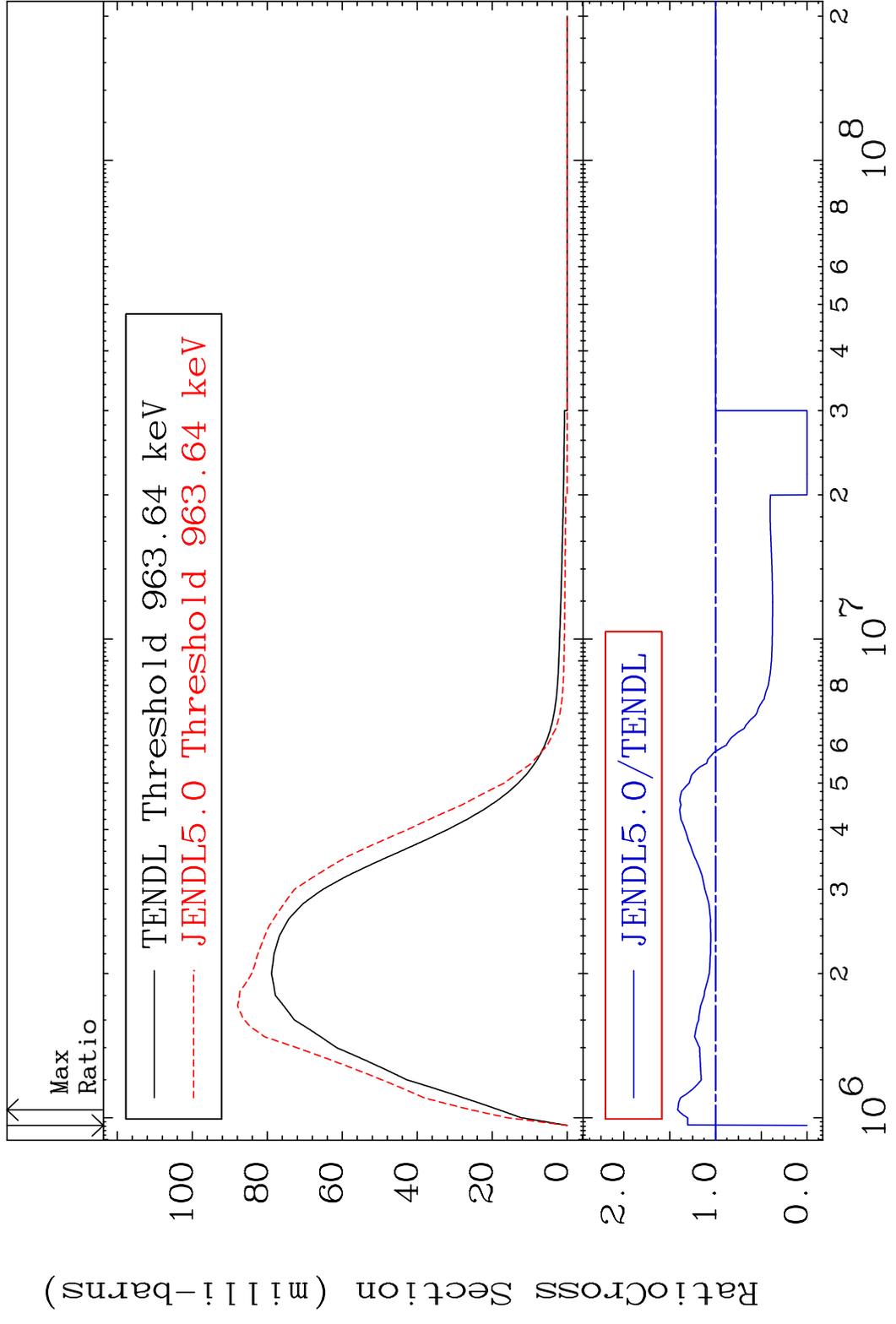
20 Incident Energy (eV) 83-Bi-208

MAT 8322 MT= 59 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 9999. %

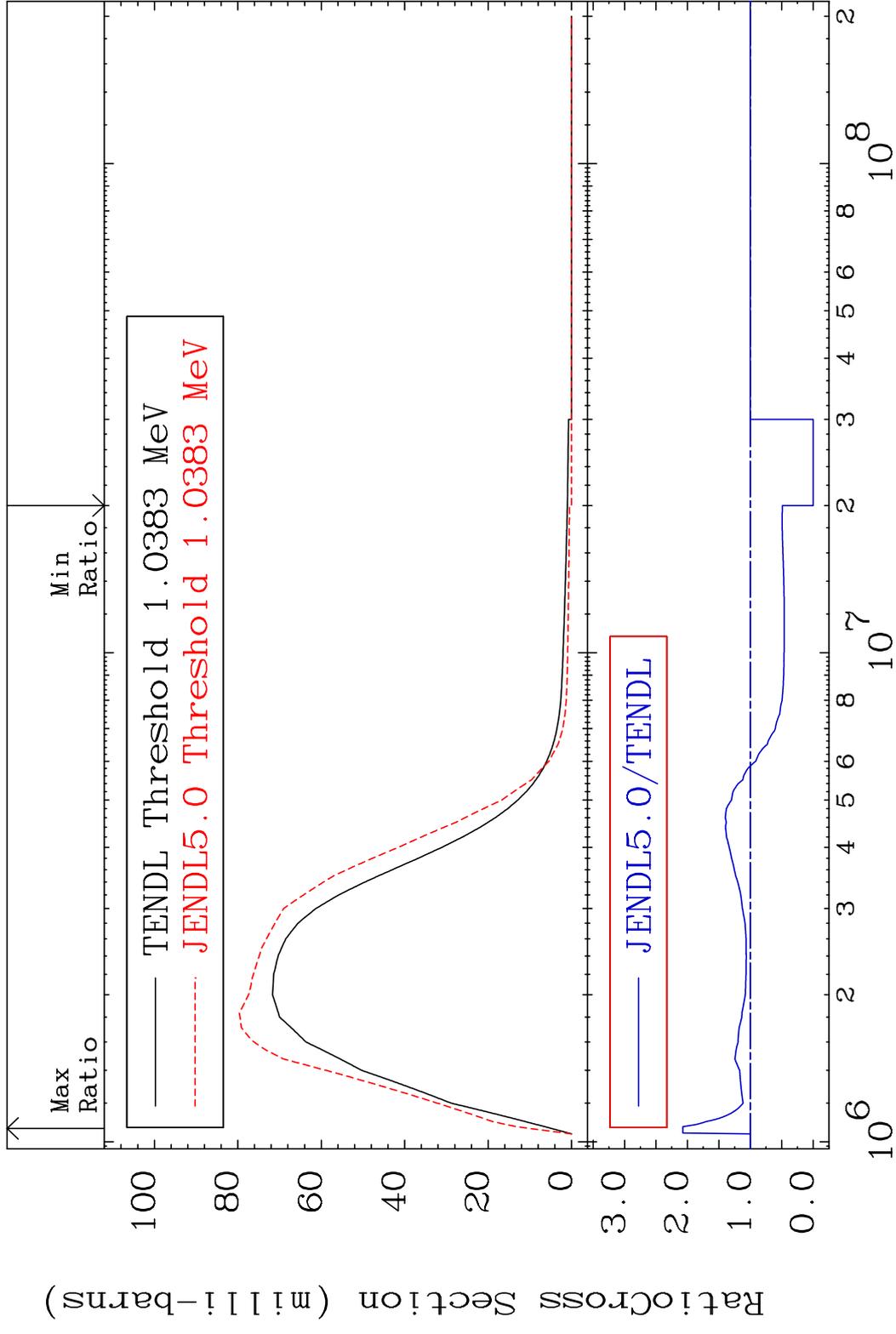


21 Incident Energy (eV) 83-Bi-208

MAT 8322 MT= 60 (n,n') Level 83-Bi-208
 Cross Section -100.0 To 41.27 %

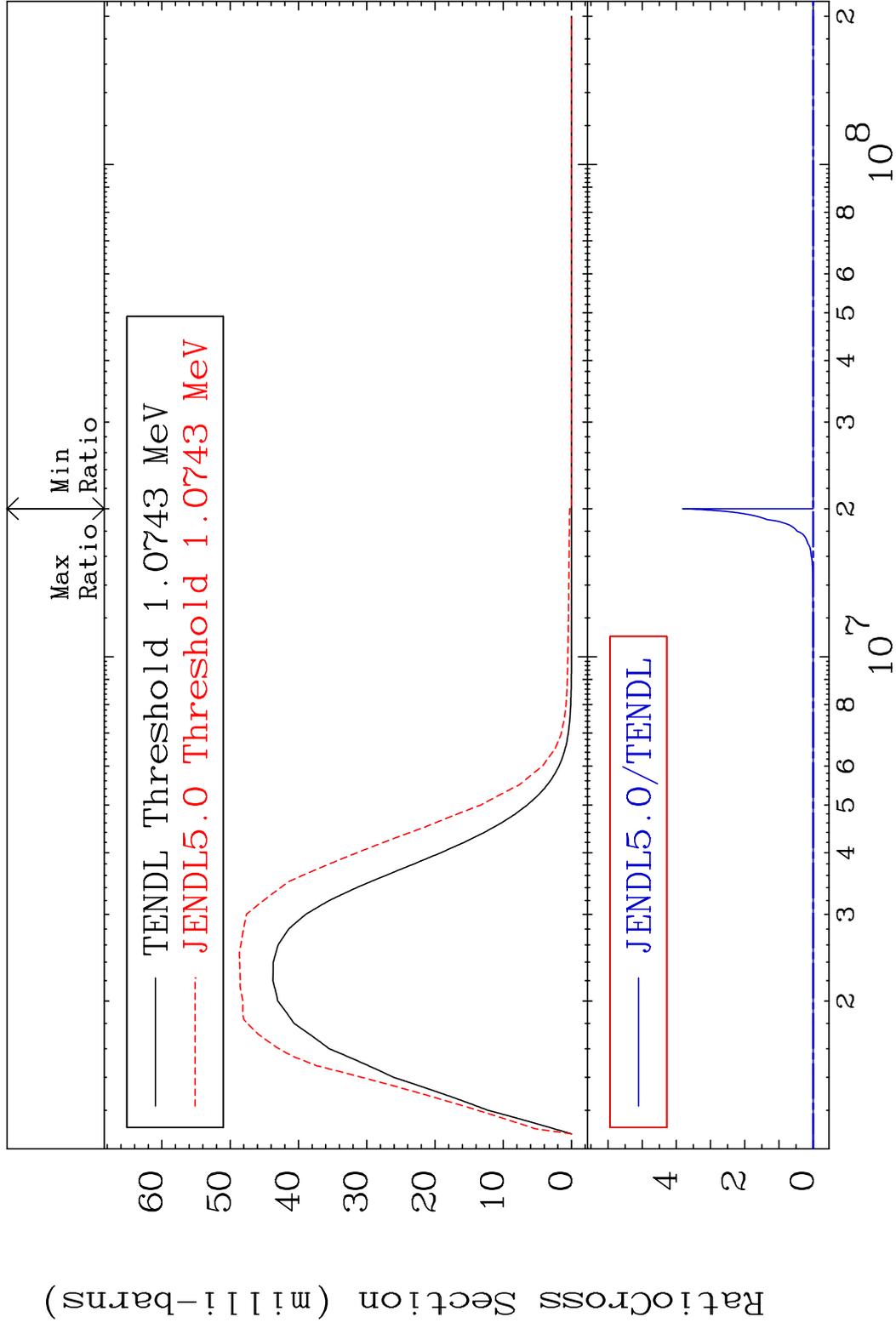


MAT 8322 MT= 61 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 107.3 %

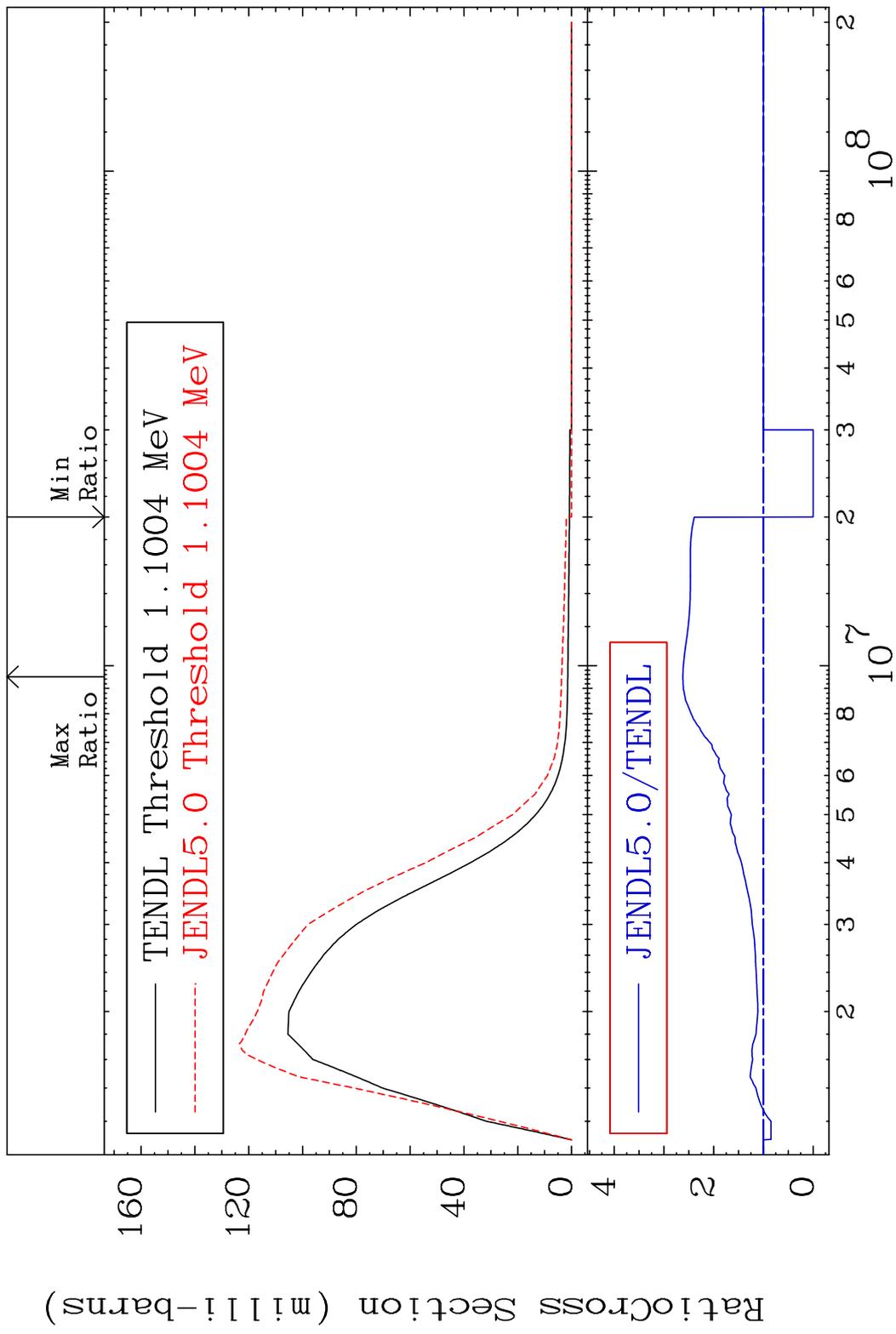


23 Incident Energy (eV) 83-Bi-208

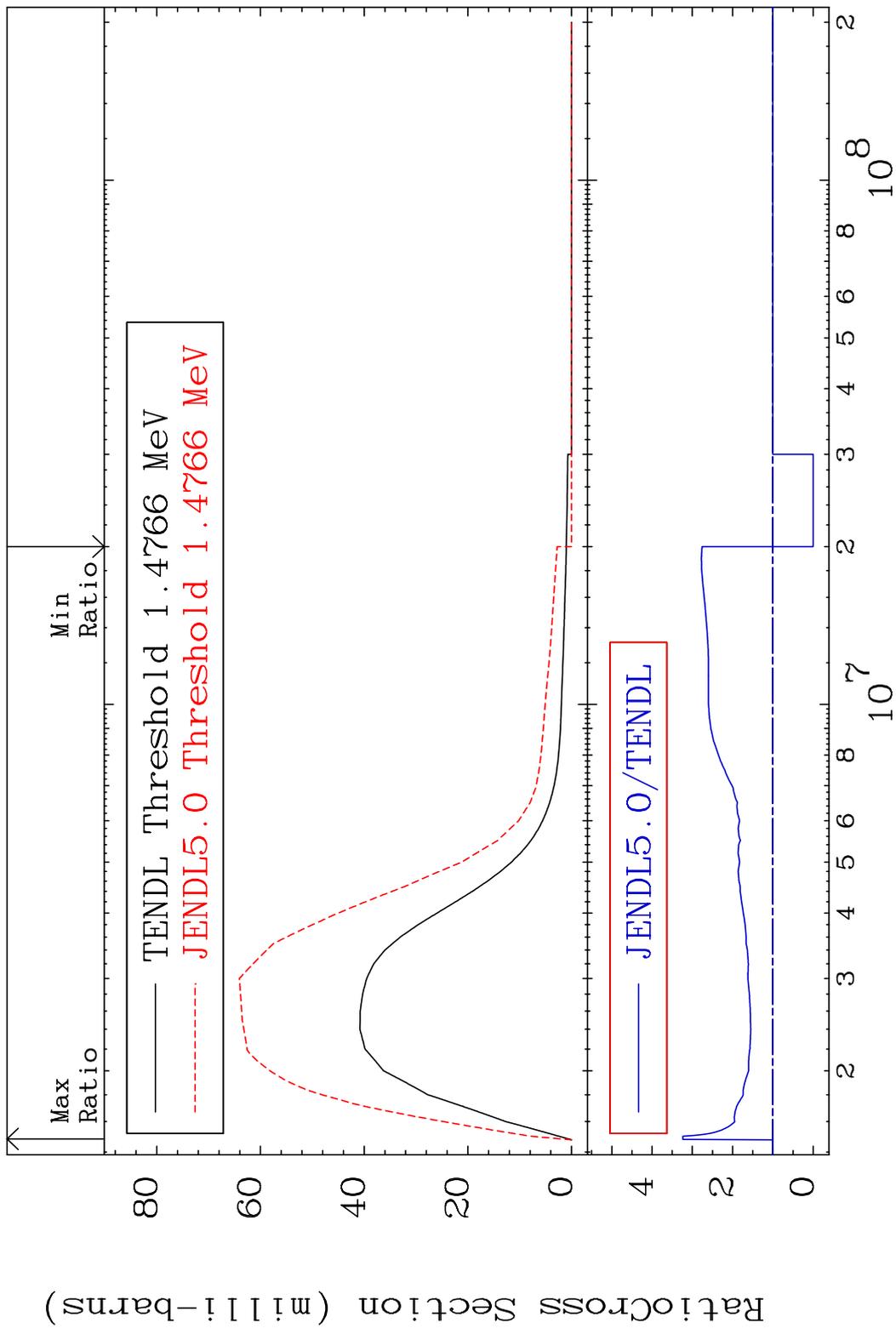
MAT 8322 MT= 62 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 9999. %



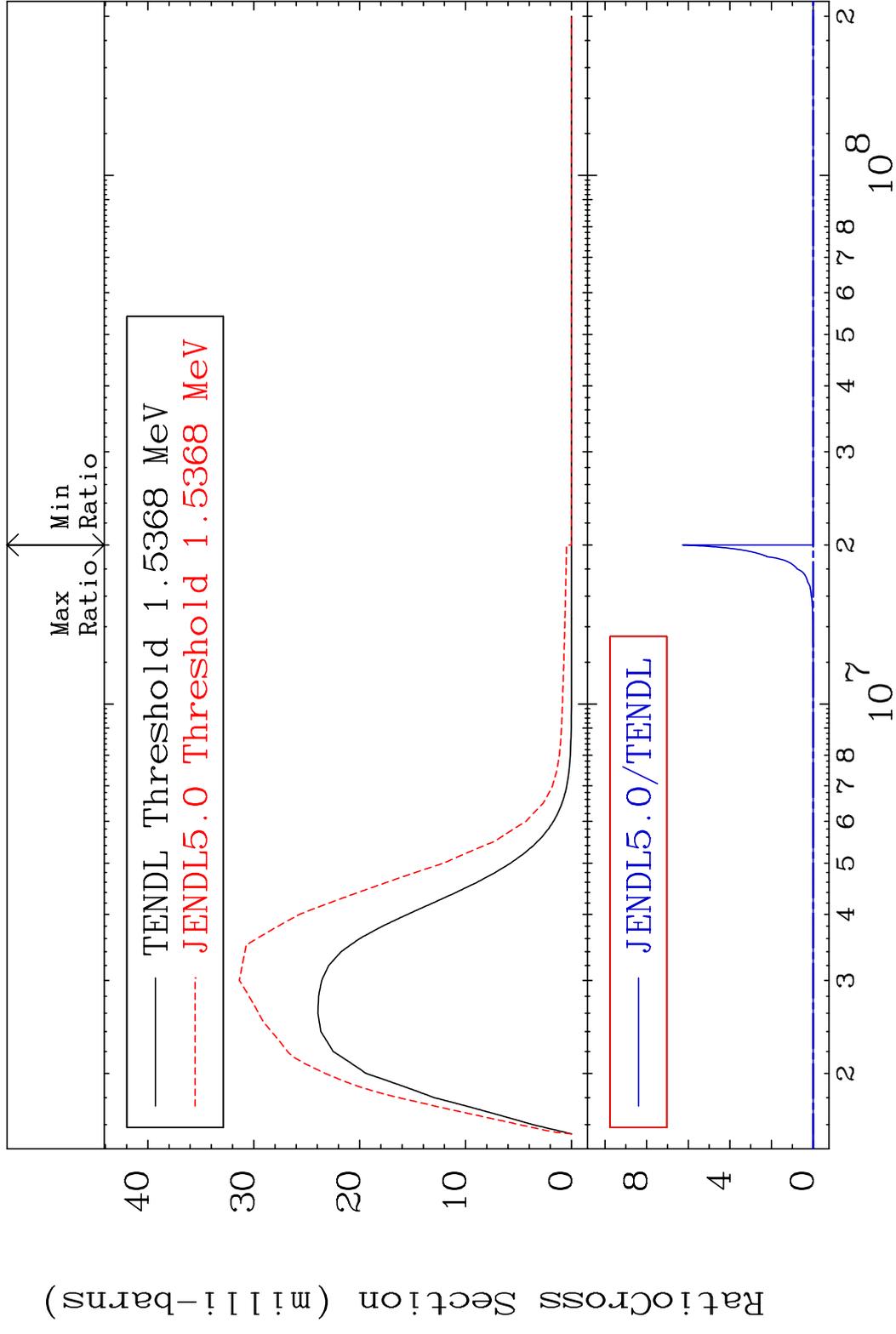
MAT 8322 MT= 63 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 162.1 %



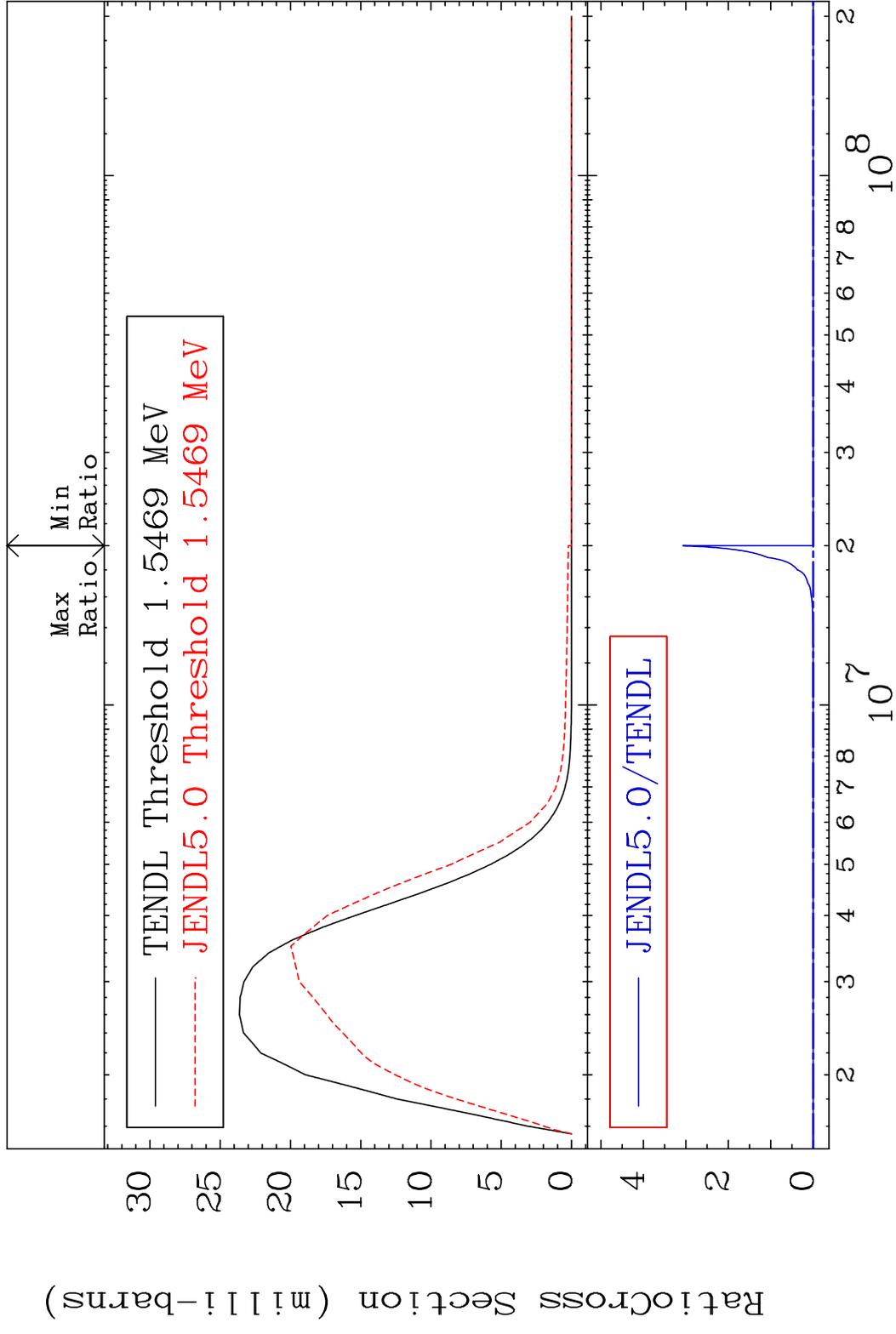
MAT 8322 MT= 64 (n,n') Level 83-Bi-208
 Cross Section -100.0 To 223.6 %



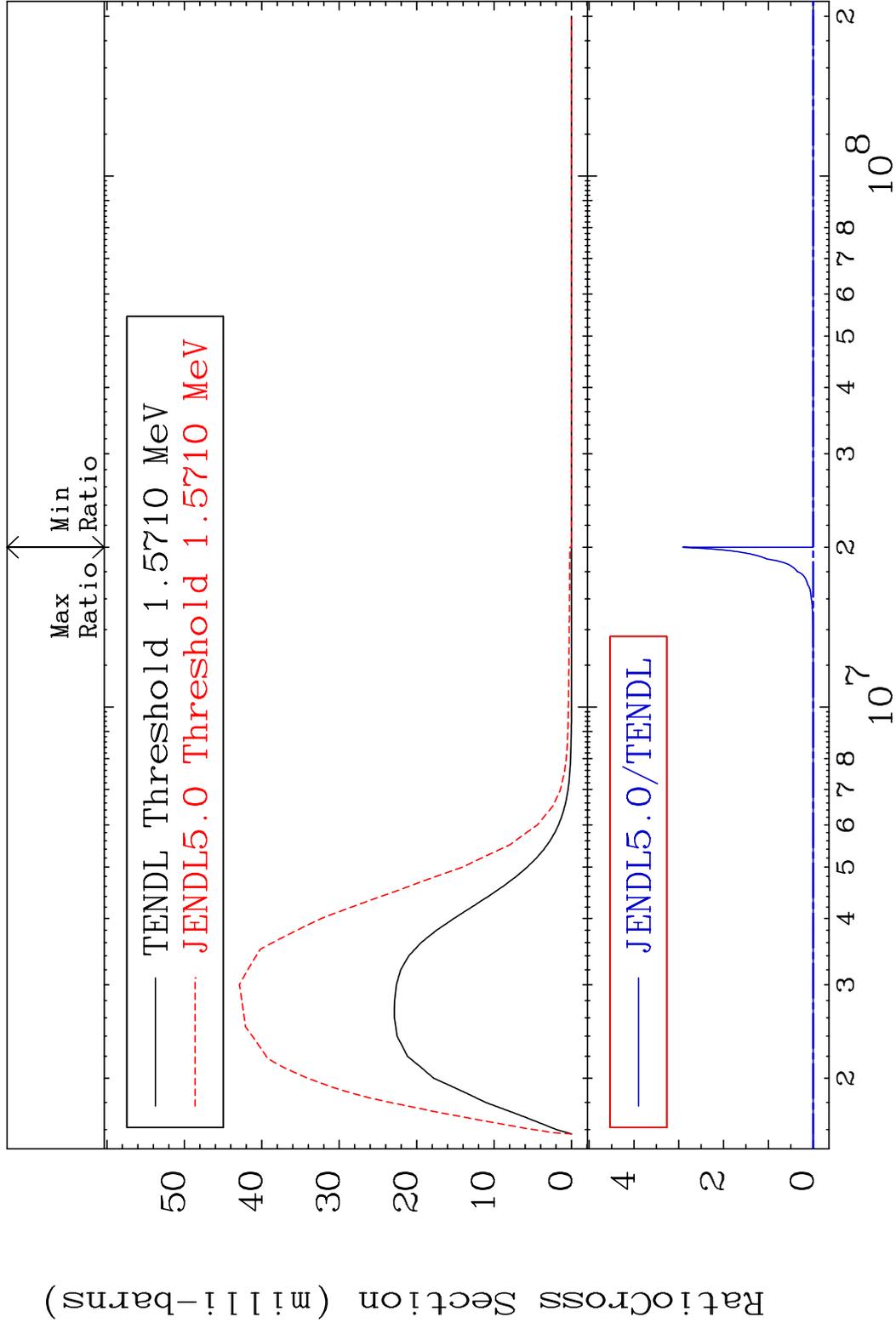
MAT 8322 MT= 65 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 9999. %



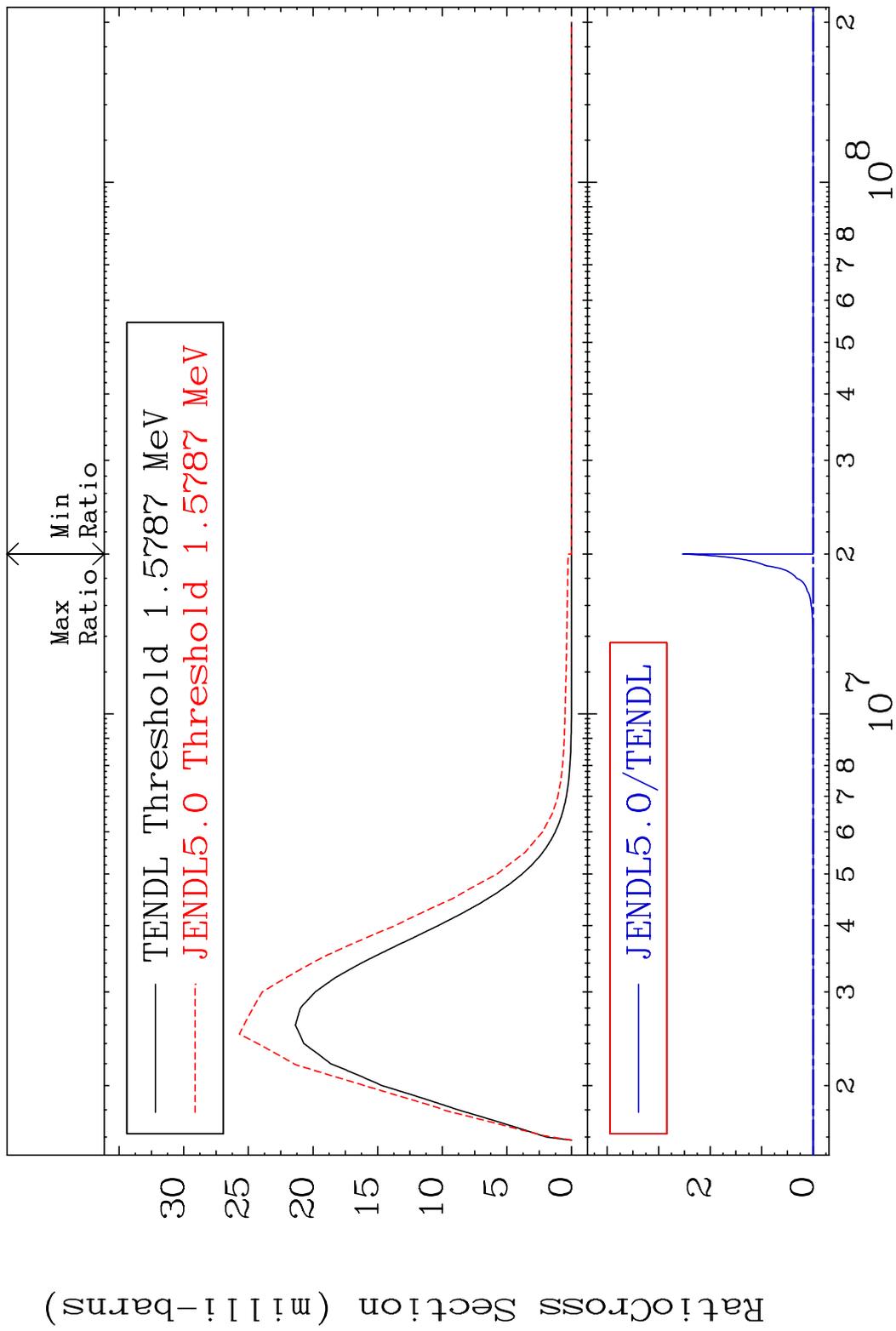
MAT 8322 MT= 66 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 9999. %



MAT 8322 MT= 67 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 9999. %

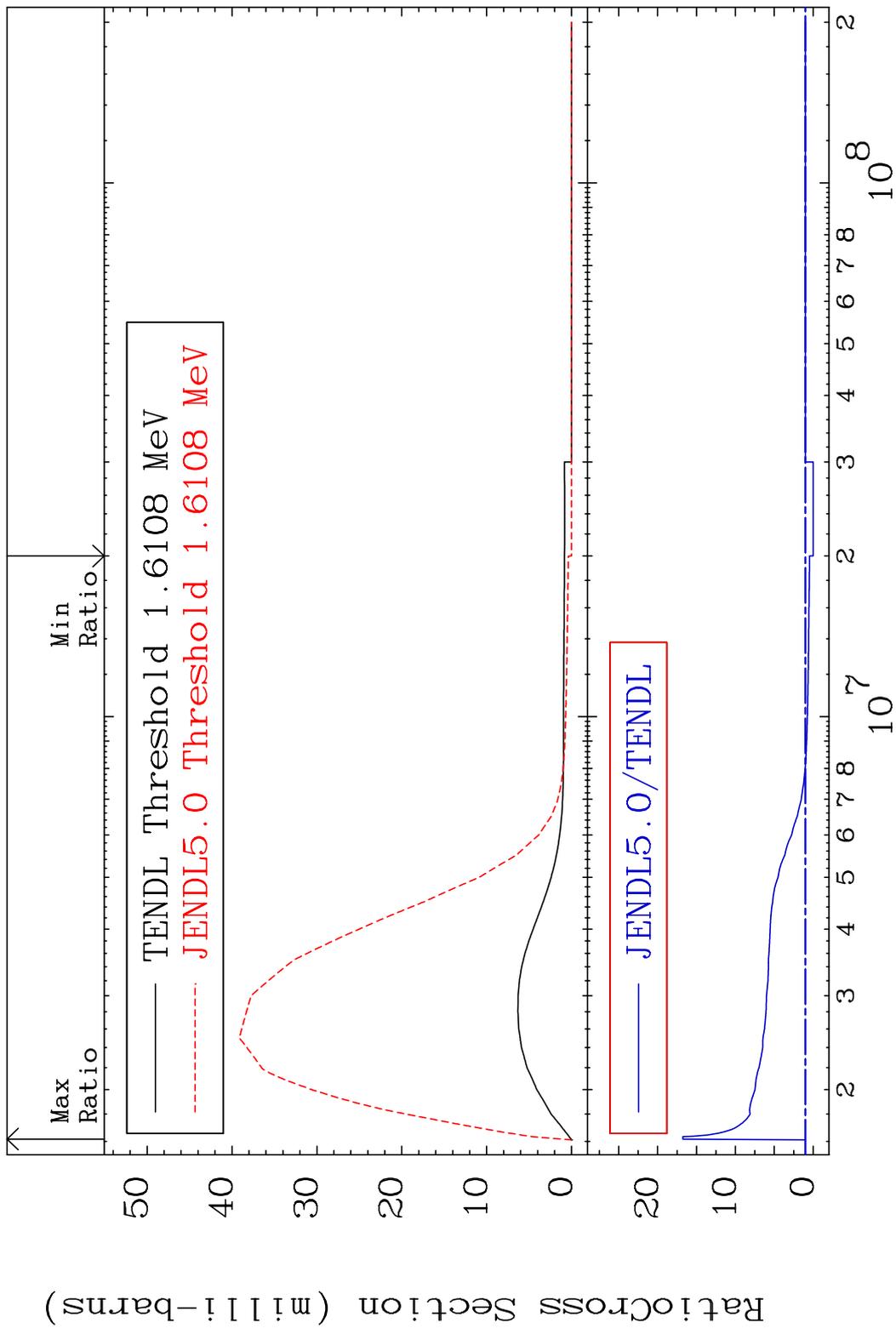


MAT 8322 MT= 68 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 9999. %

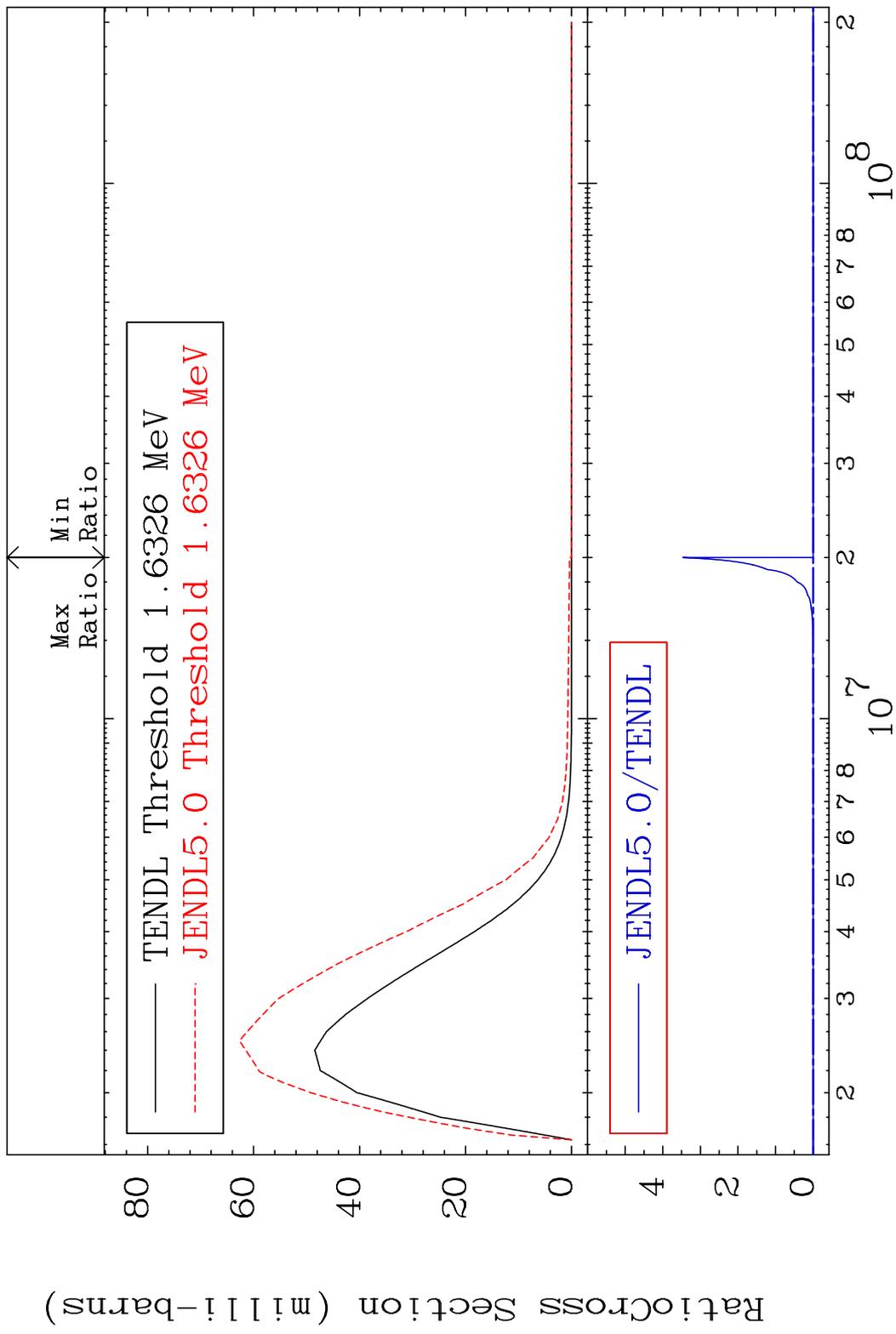


30 Incident Energy (eV) 83-Bi-208

MAT 8322 MT= 69 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 1576. %

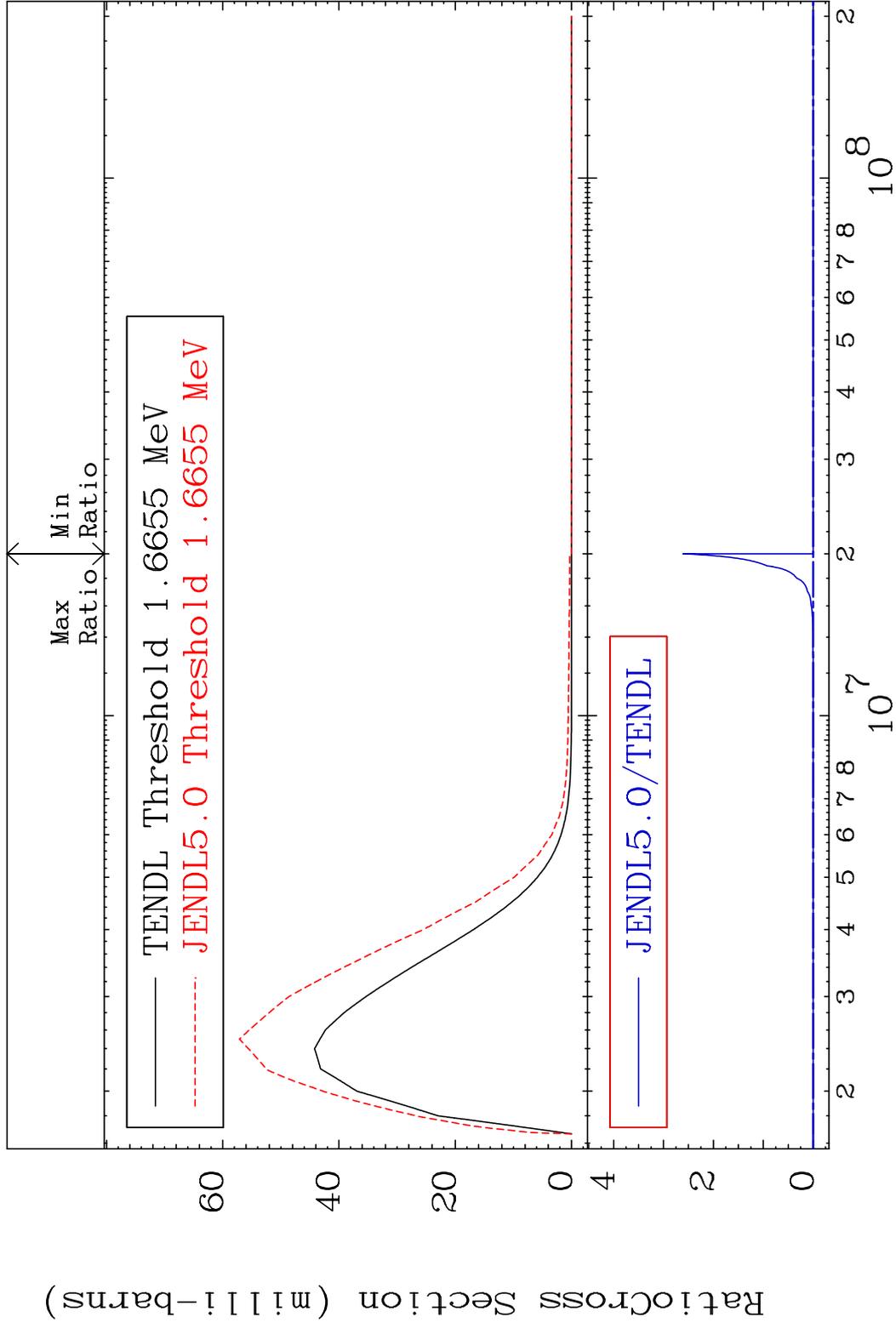


MAT 8322 MT= 70 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 9999. %

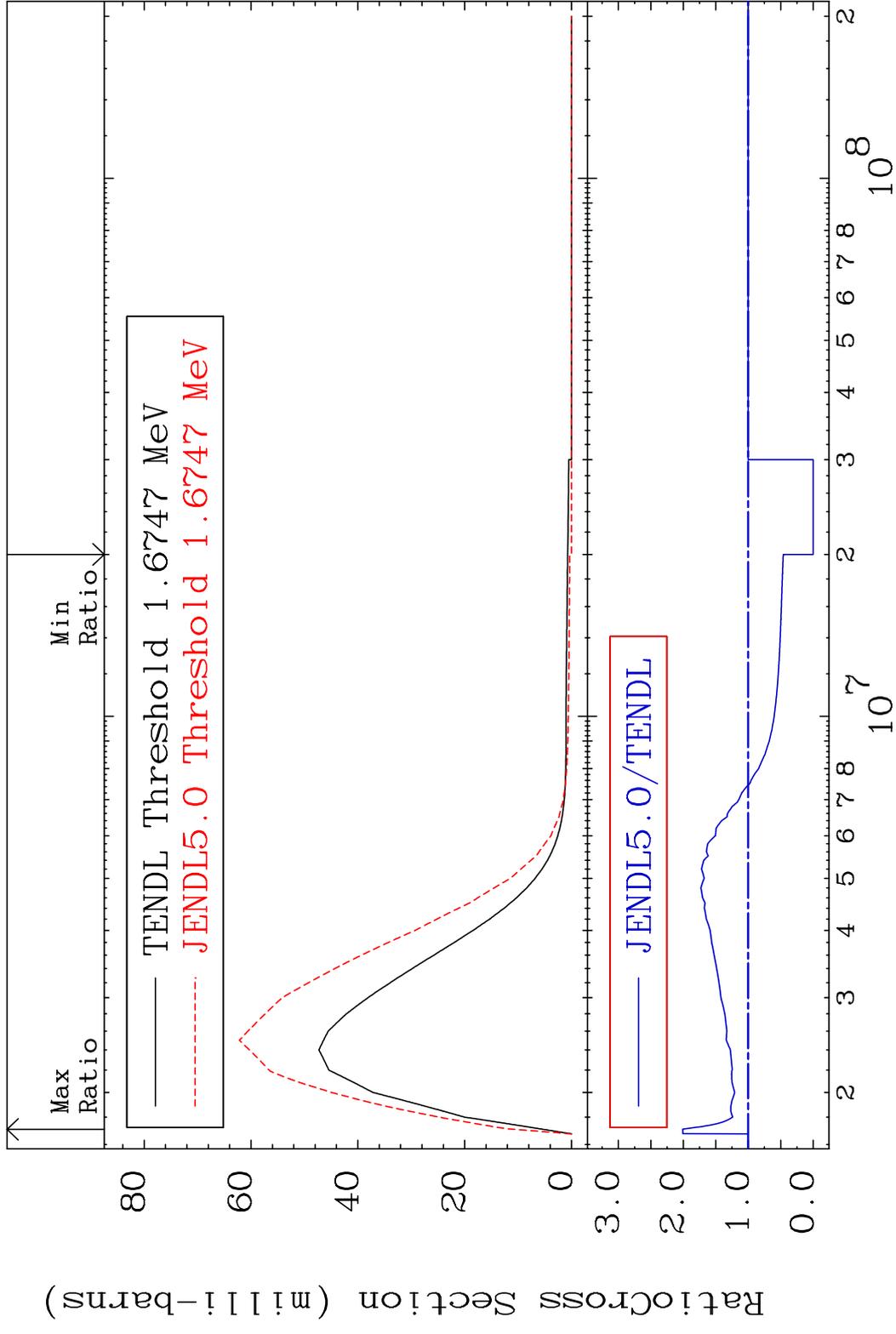


32 Incident Energy (eV) 83-Bi-208

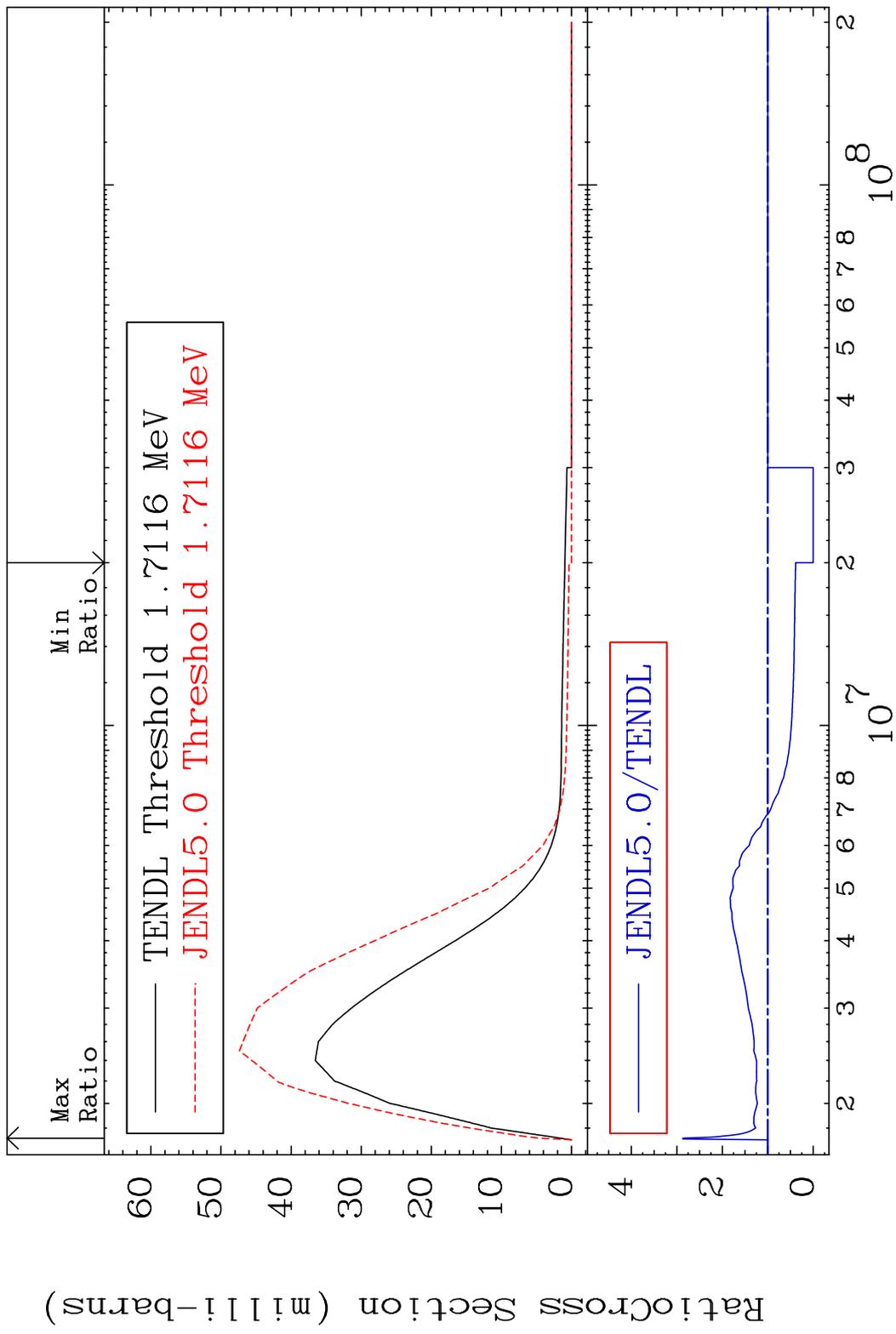
MAT 8322 MT= 71 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 9999. %



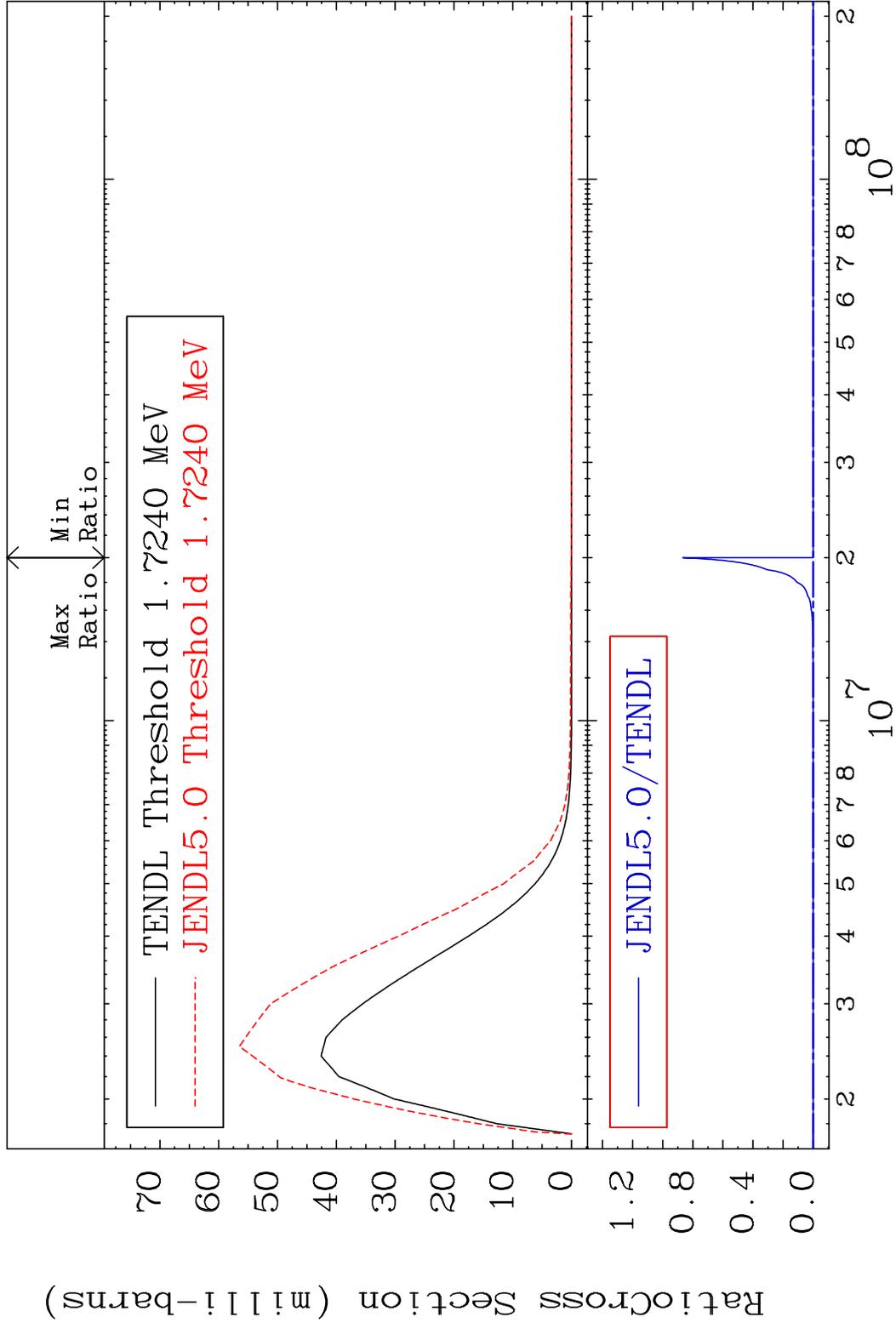
MAT 8322 MT= 72 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 100.7 %



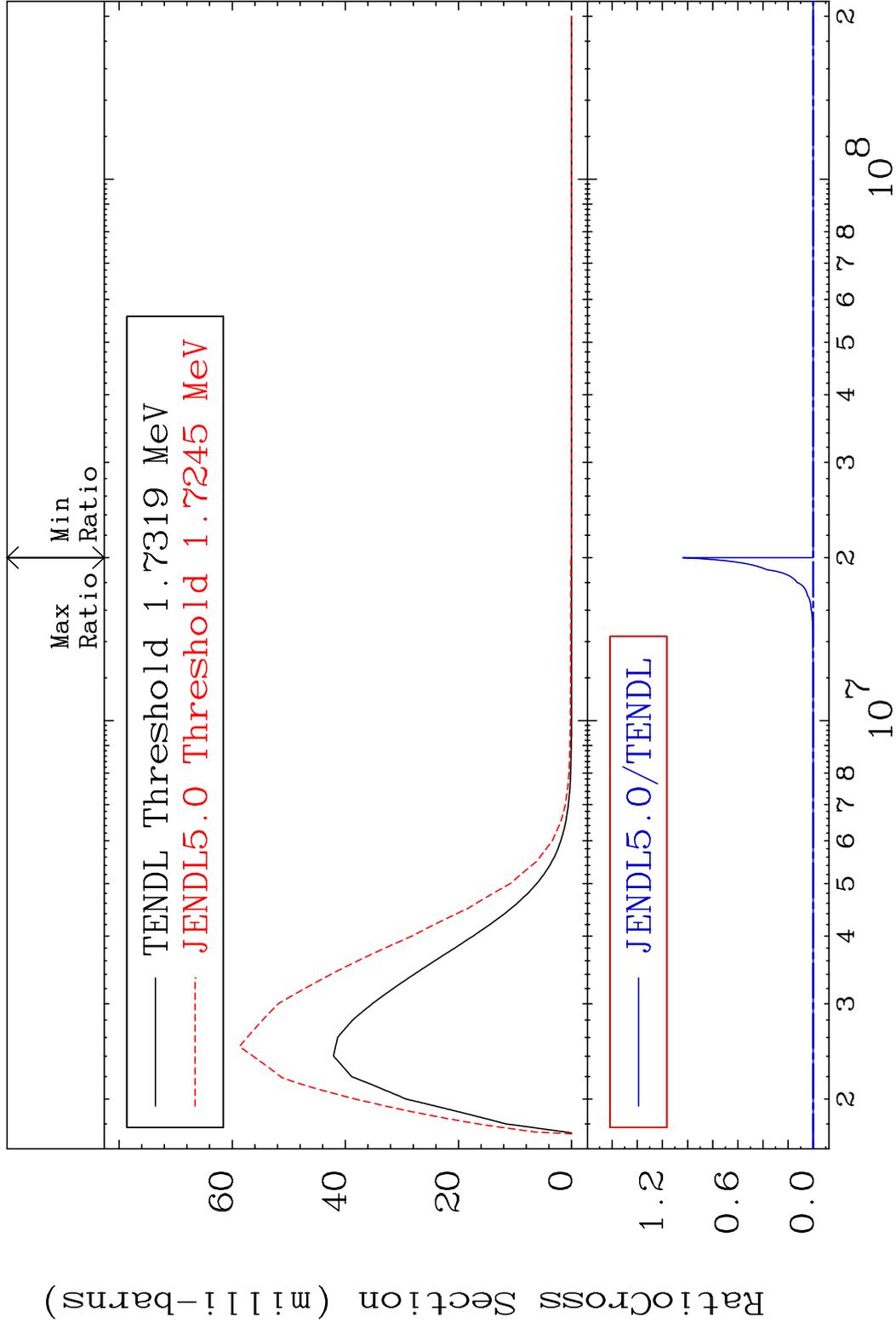
MAT 8322 MT= 73 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 186.8 %



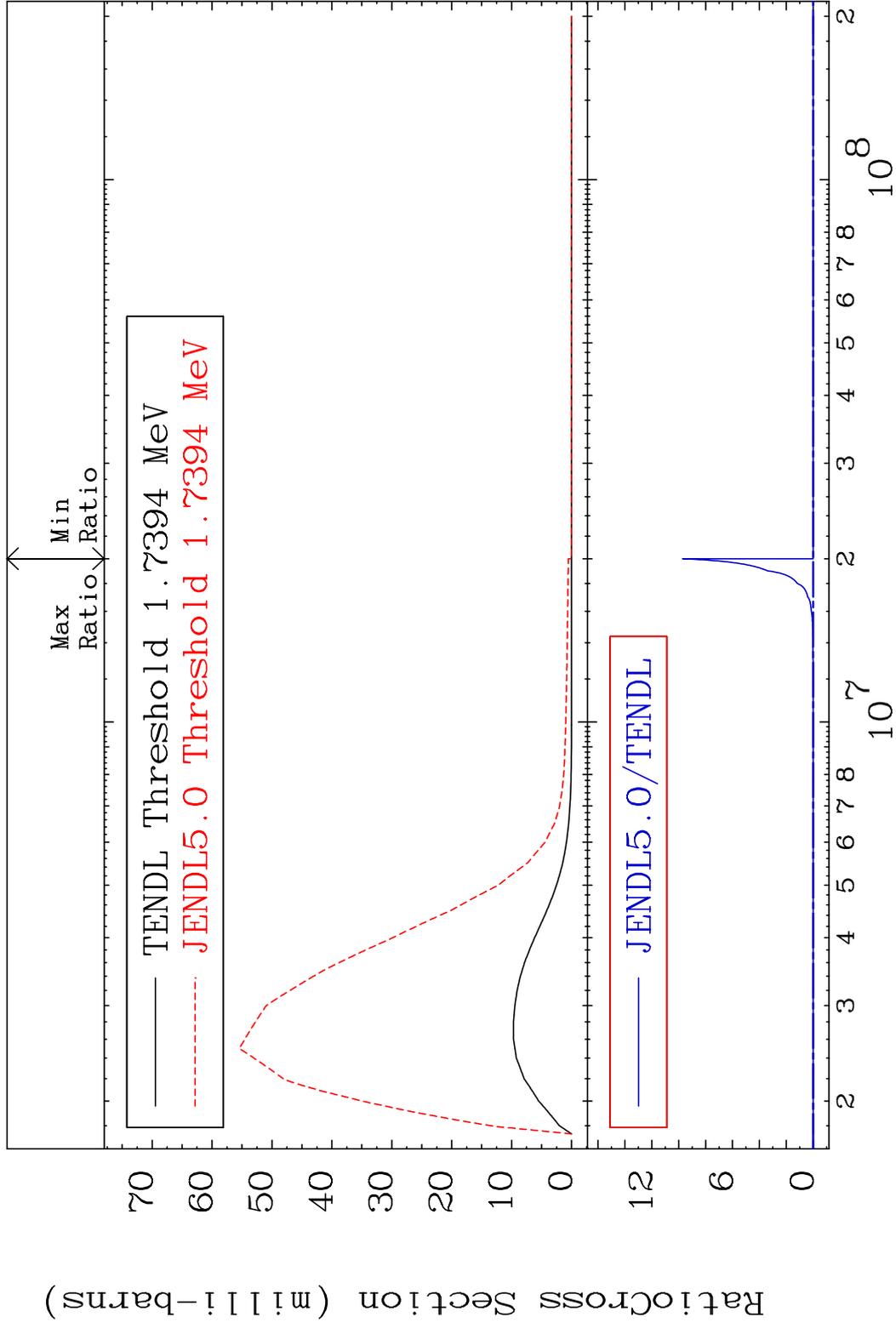
MAT 8322 MT= 74 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 9999. %



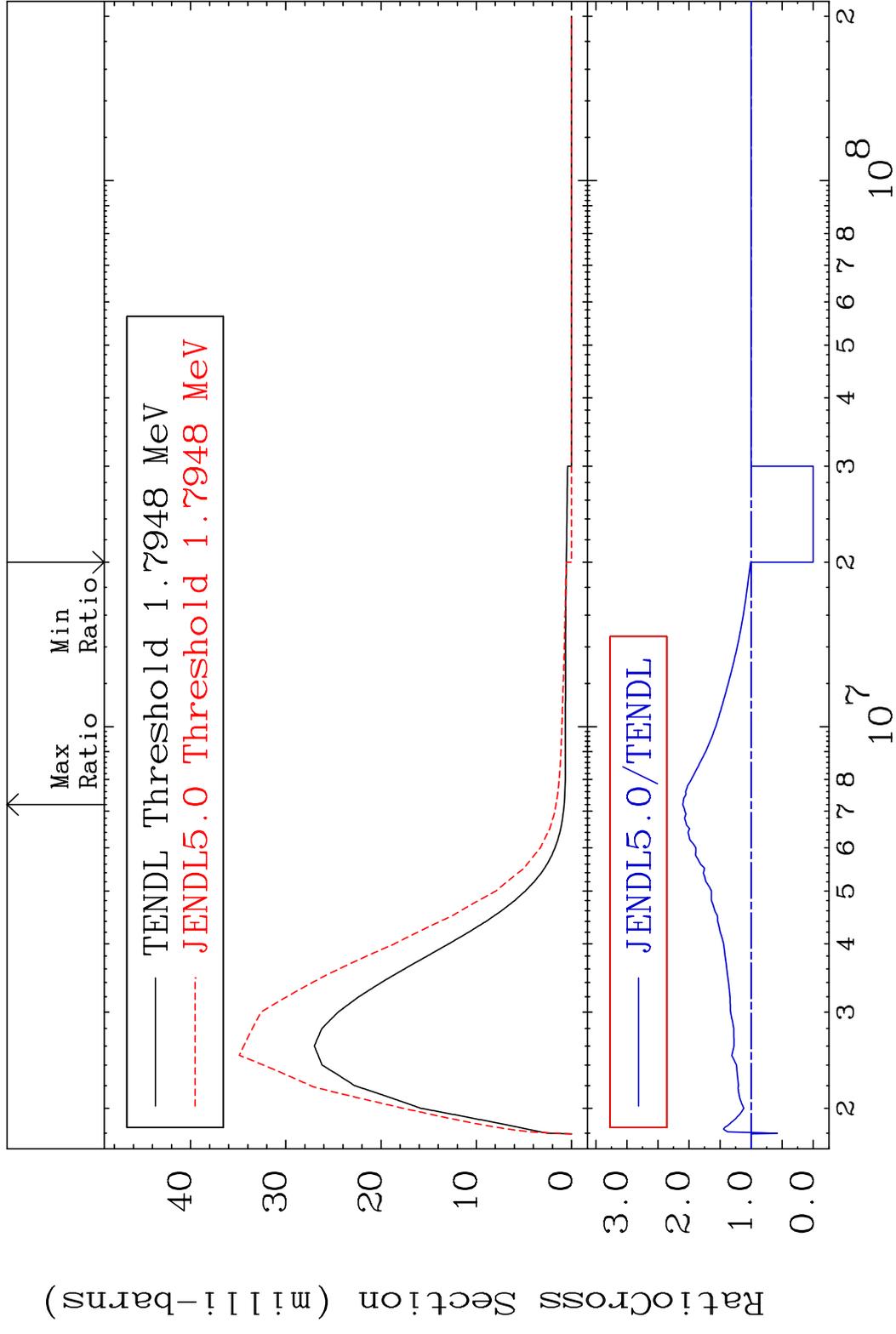
MAT 8322 MT= 75 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 9999. %



MAT 8322 MT= 76 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 9999. %

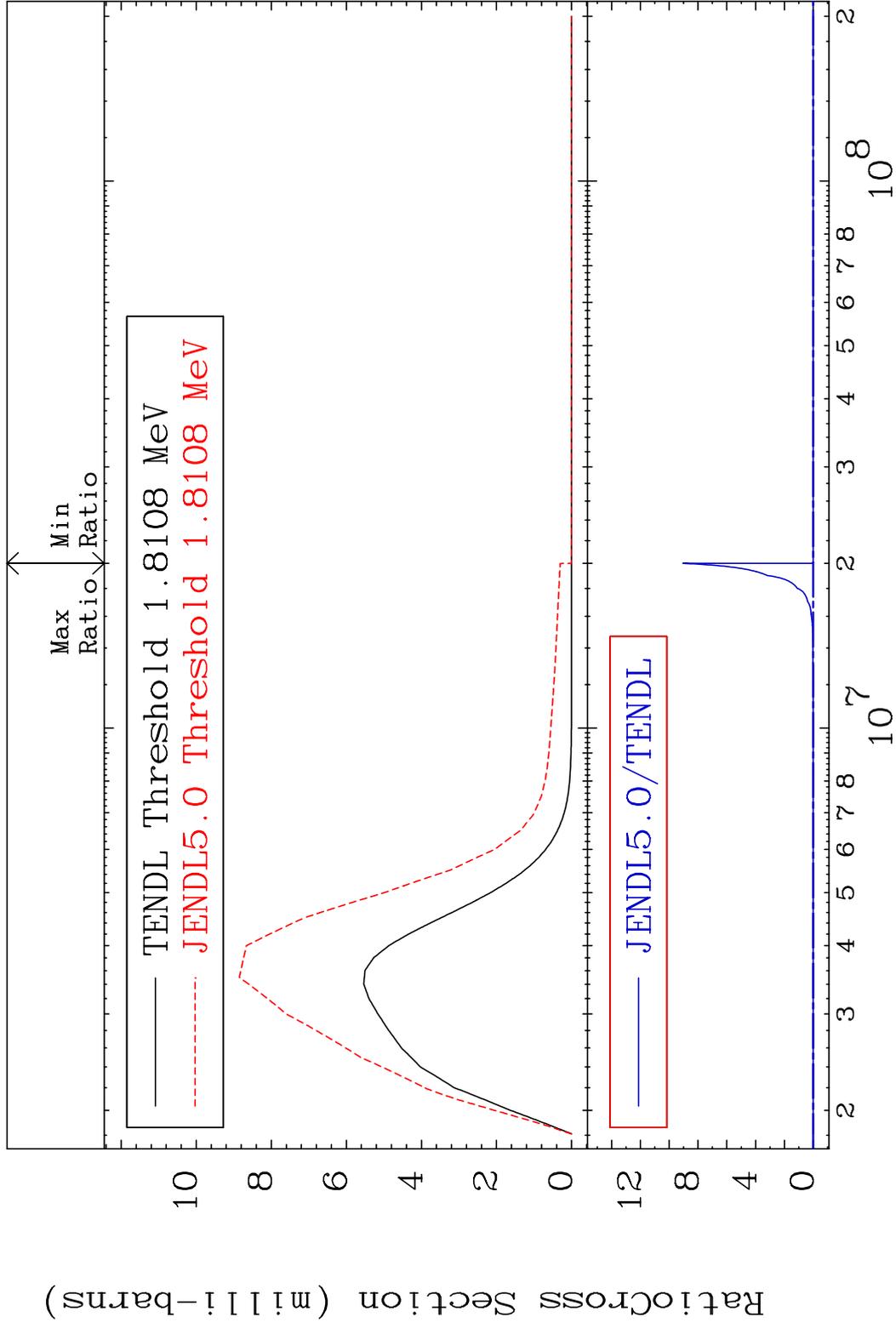


MAT 8322 MT= 77 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 109.8 %



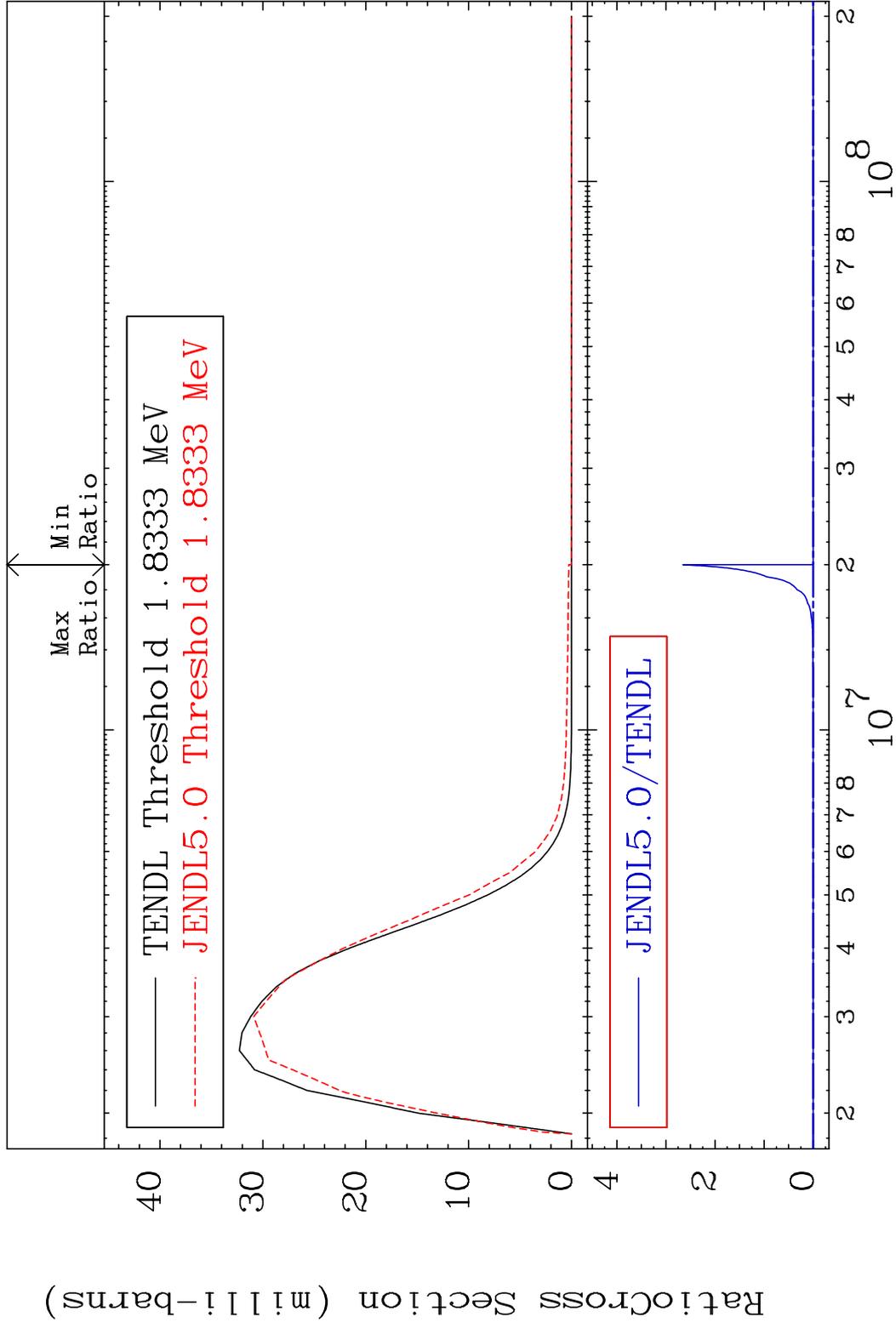
39 Incident Energy (eV) 83-Bi-208

MAT 8322 MT= 78 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 9999. %

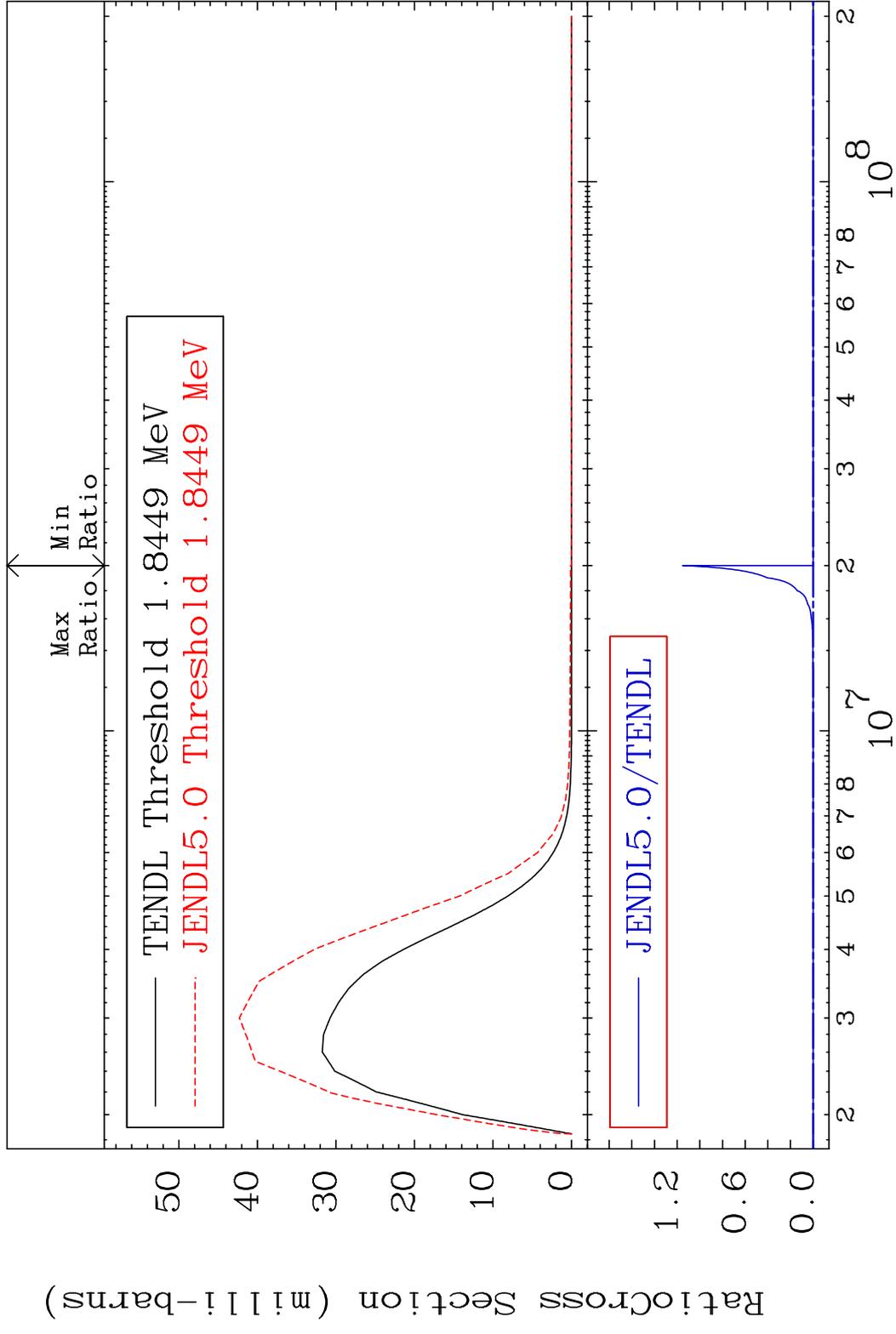


40 Incident Energy (eV) 83-Bi-208

MAT 8322 MT= 79 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 9999. %



MAT 8322 MT= 80 (n, n') Level 83-Bi-208
 Cross Section -100.0 To 9999. %



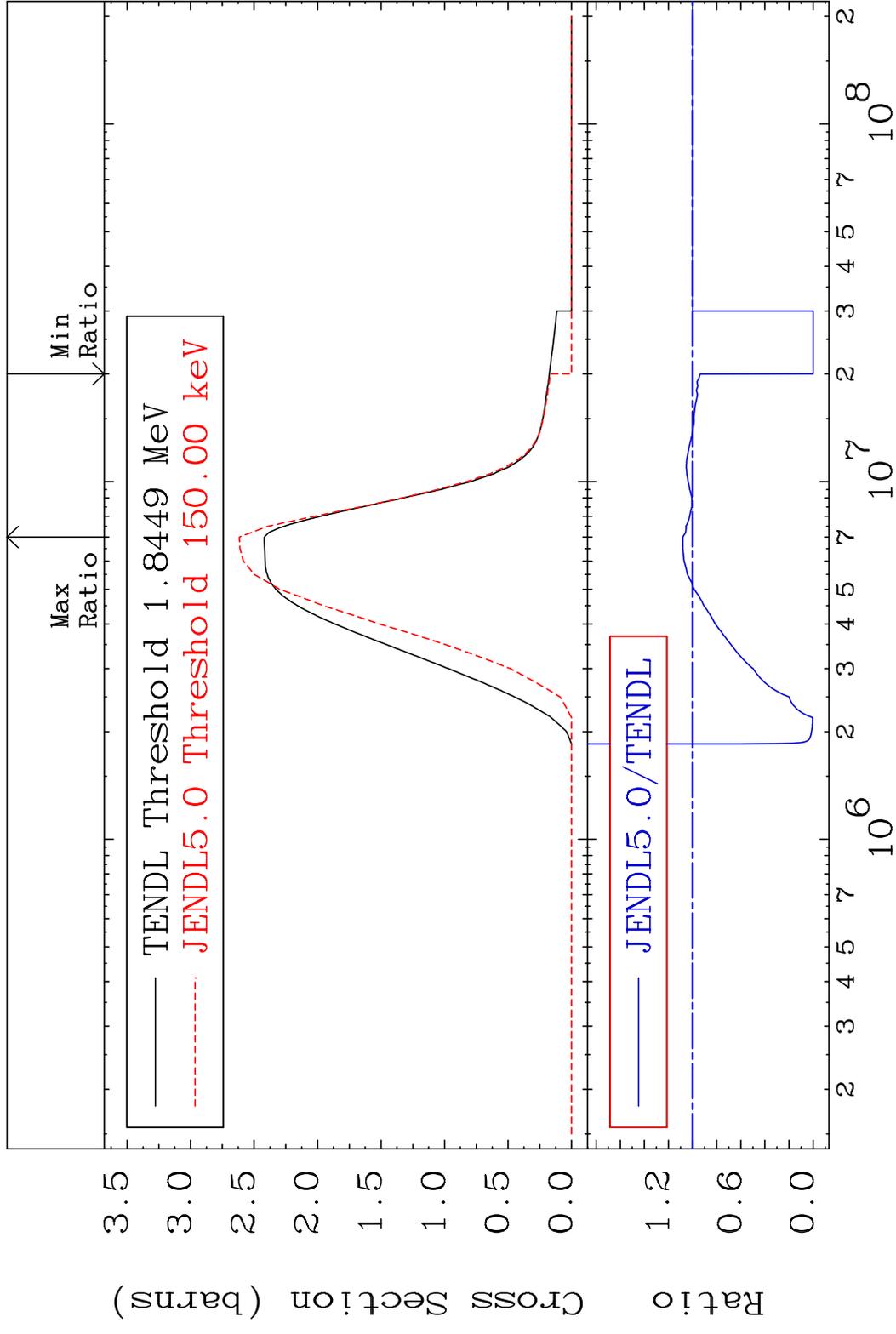
42 Incident Energy (eV) 83-Bi-208

MAT 8322

(n,n') Continuum

83-Bi-208

Cross Section -100.0 To 8.079 %

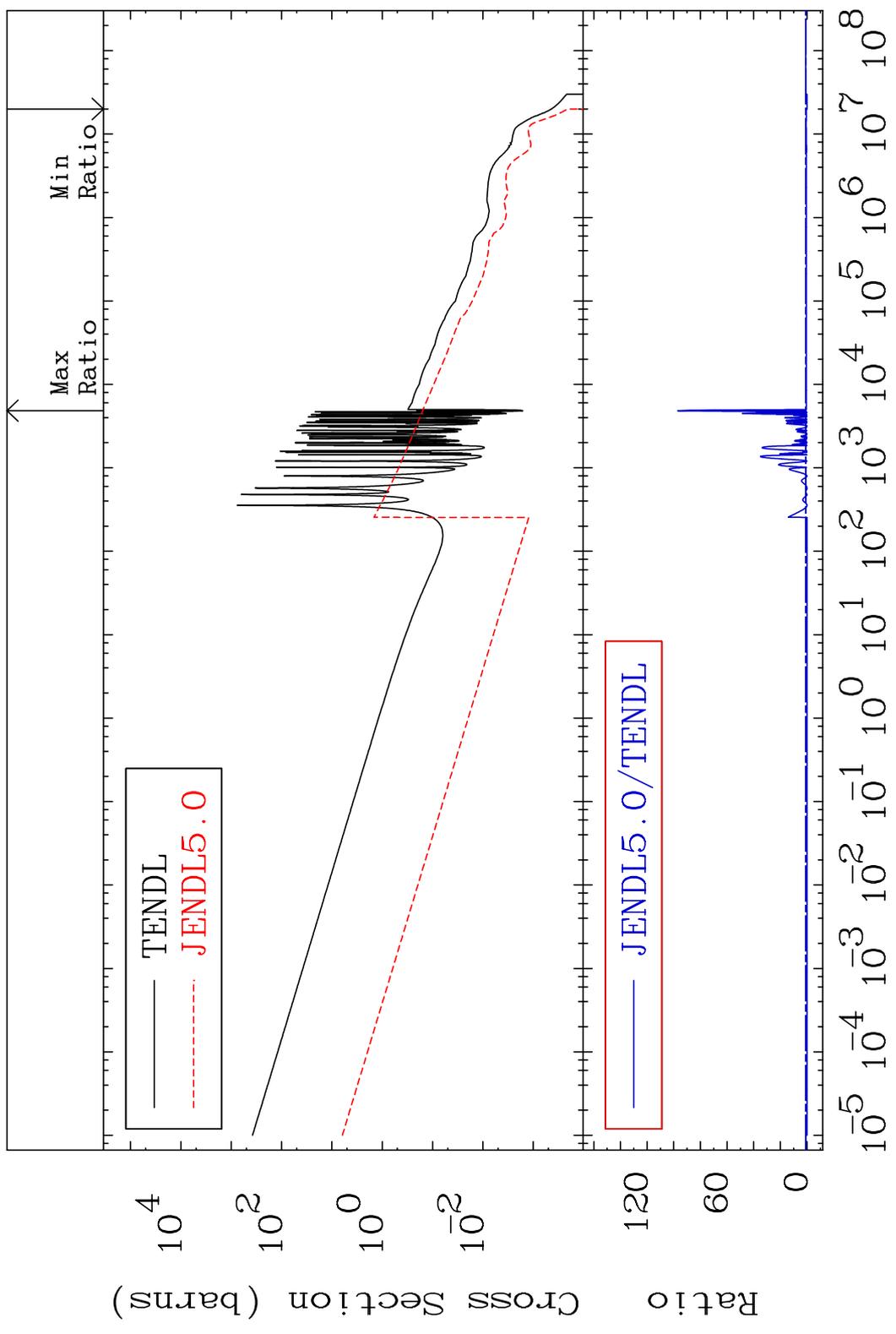


MAT 8322

(n, γ)

83-Bi-208

Cross Section -100.0 To 9605. %



44

Incident Energy (eV)

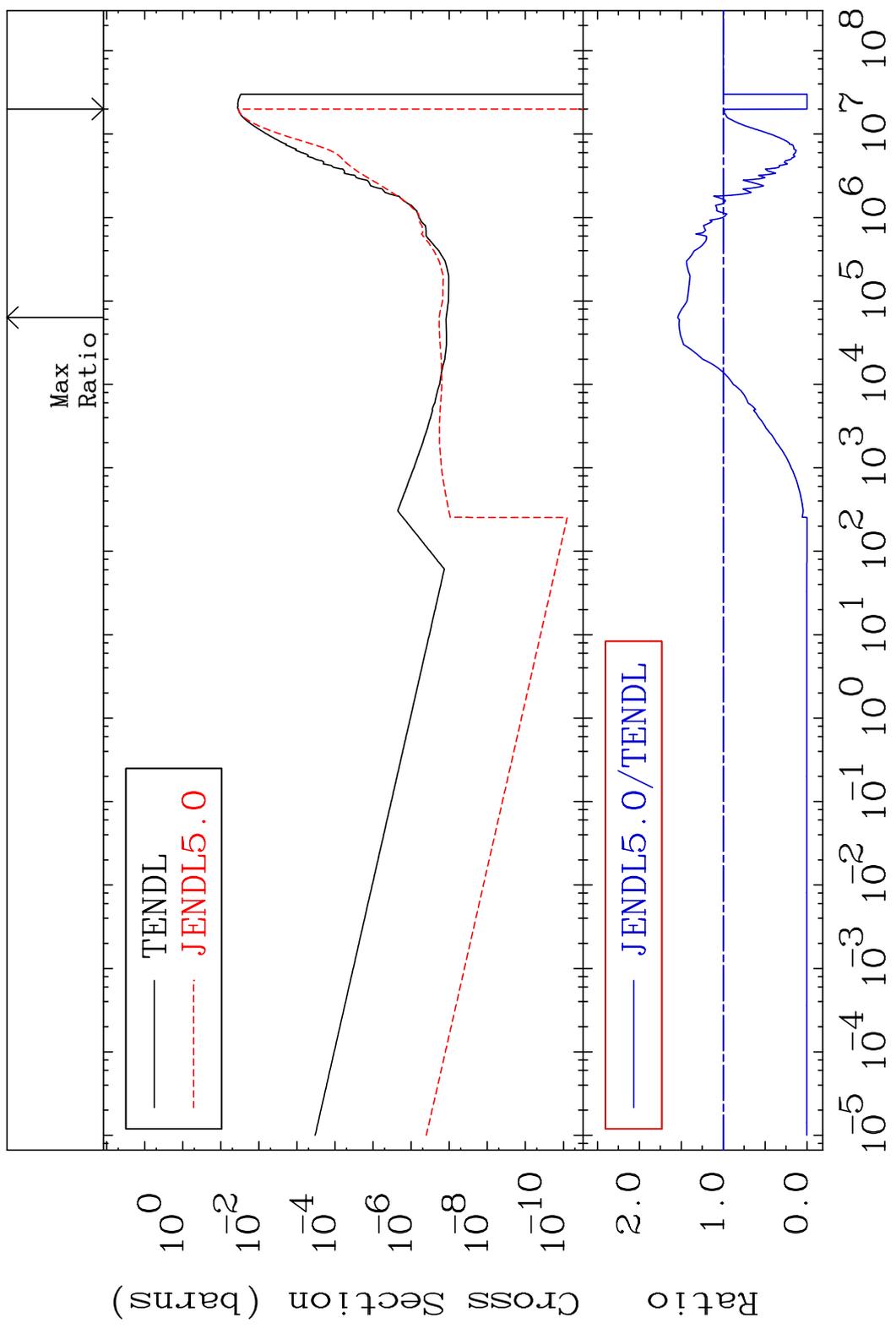
83-Bi-208

MAT 8322

(n, p)

83-Bi-208

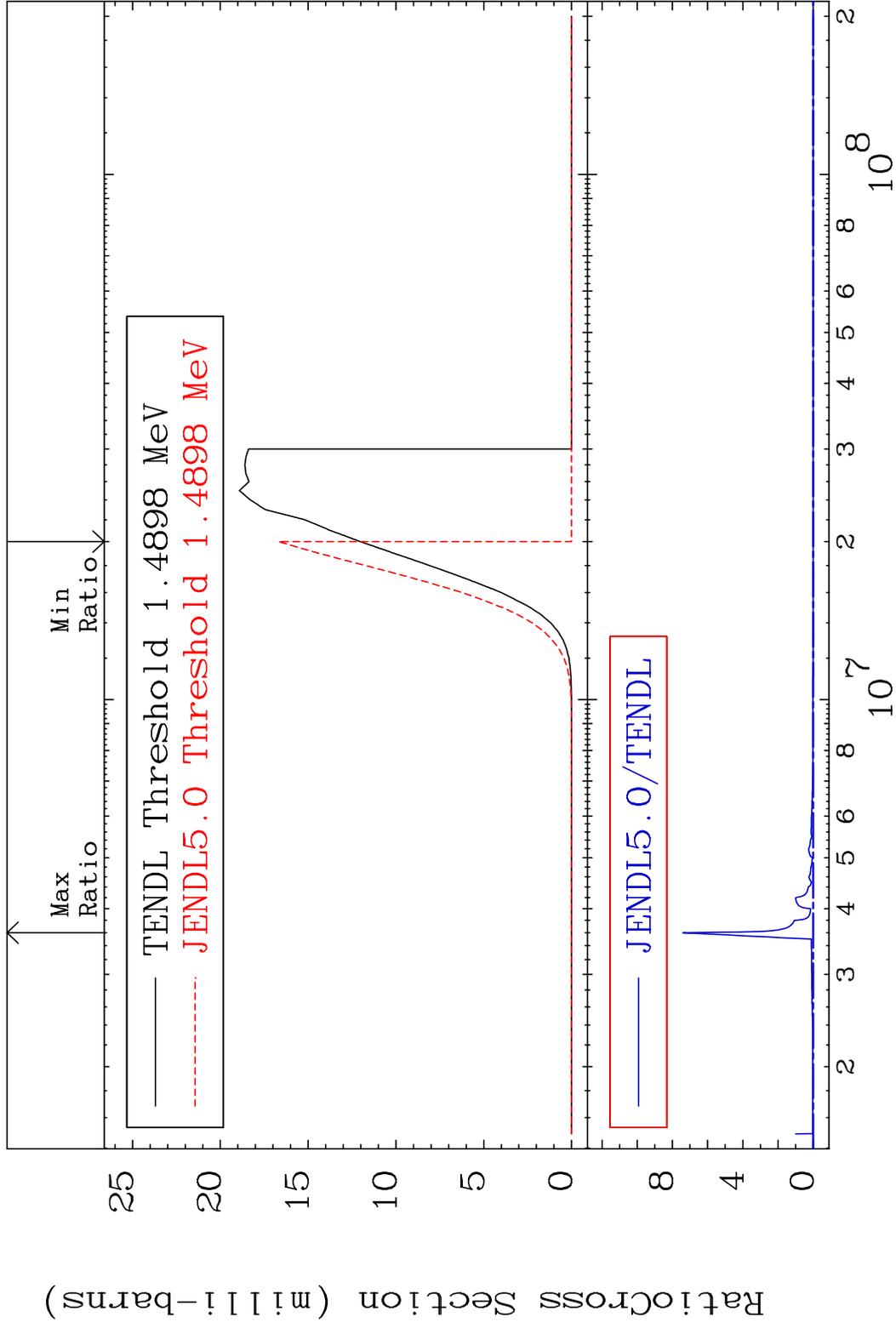
Cross Section -100.0 To 54.30 %



45

Incident Energy (eV)

83-Bi-208

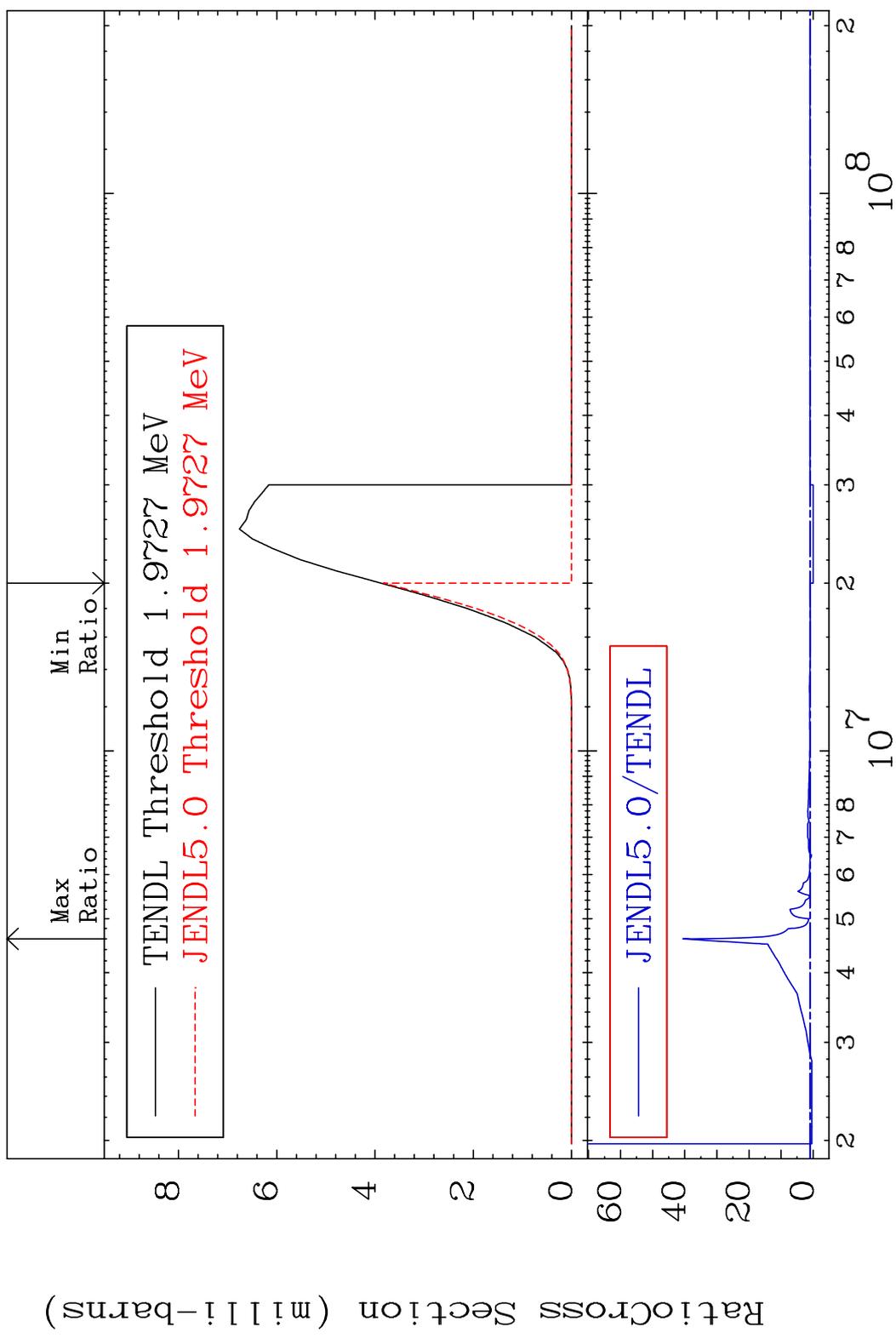


MAT 8322

(n, t)

83-Bi-208

Cross Section -100.0 To 3960. %

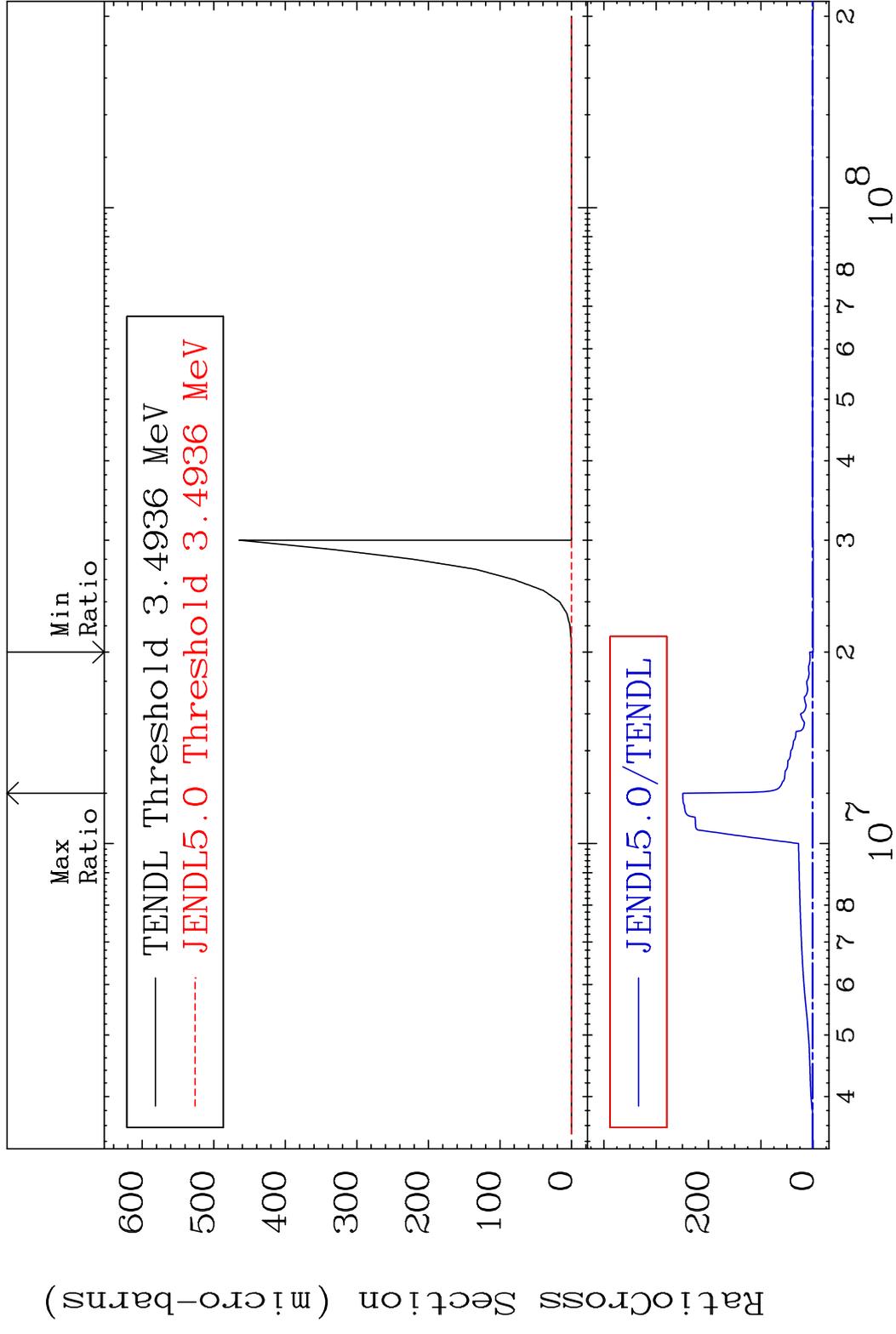


MAT 8322

(n, He-3)

83-Bi-208

Cross Section -100.0 To 9999. %

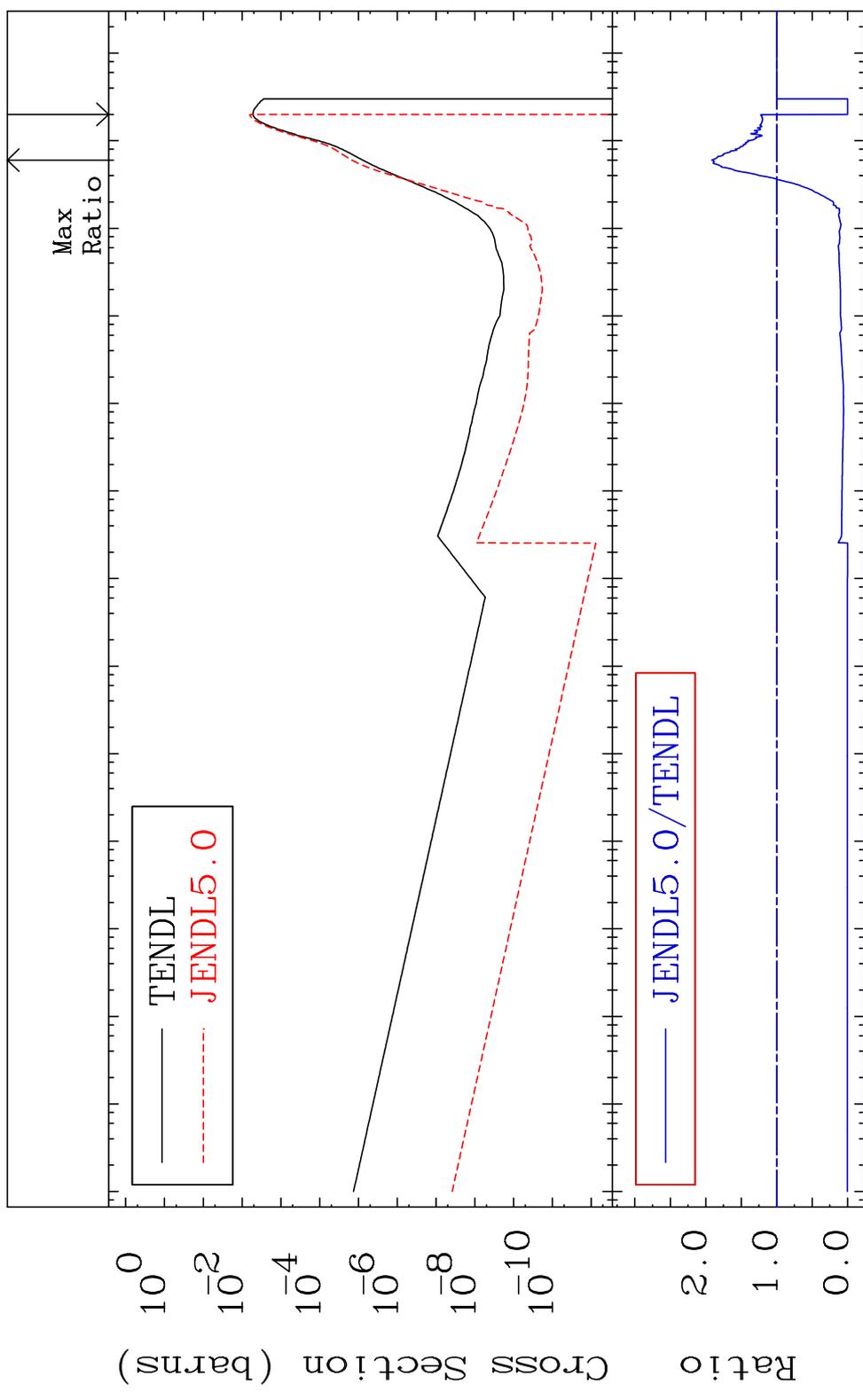


MAT 8322

(n, α)

83-Bi-208

Cross Section -100.0 To 91.53 %



49

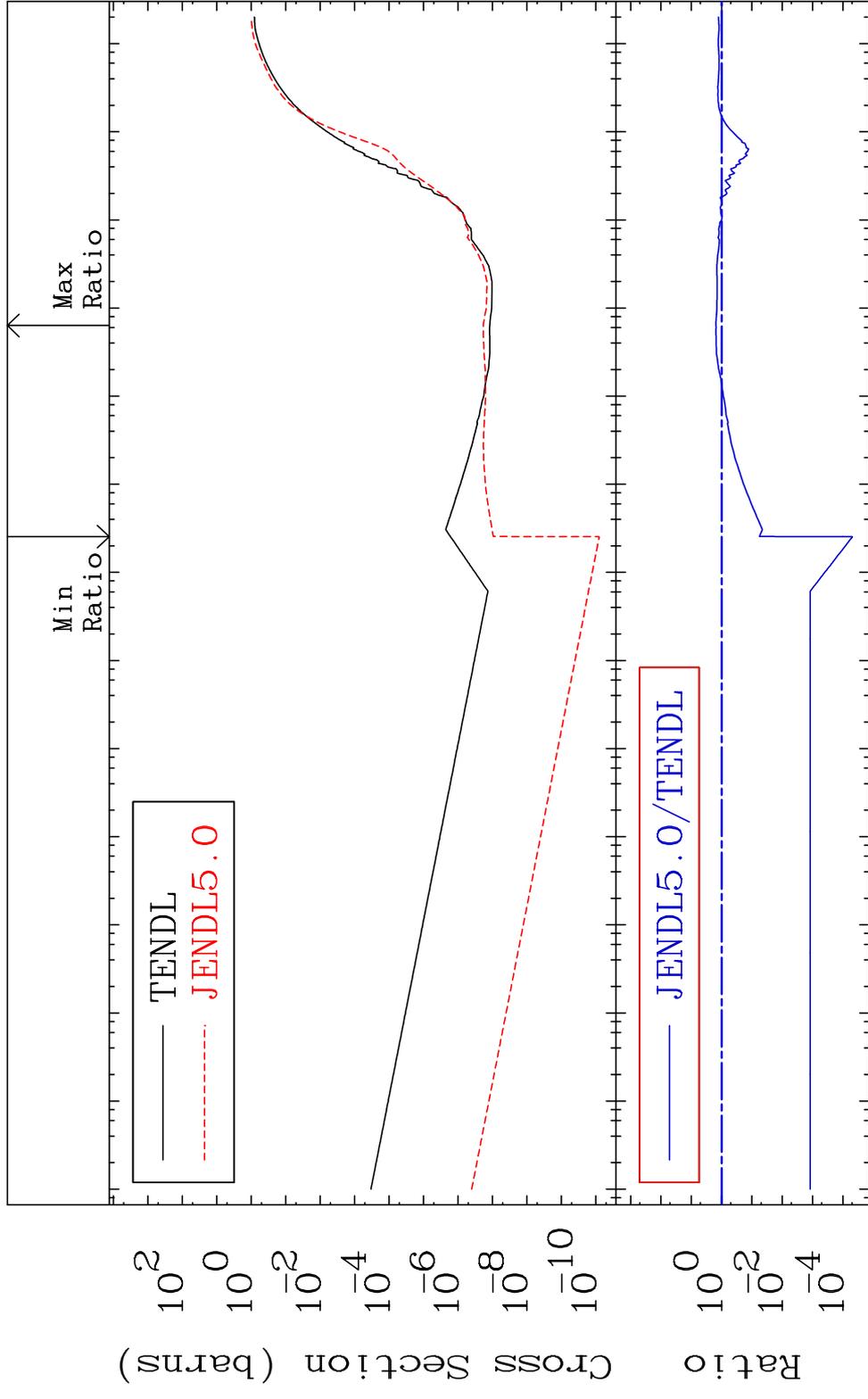
Incident Energy (eV)

83-Bi-208

MAT 8322

Hydrogen Production
Cross Section -100.0 To 54.30 %

83-Bi-208

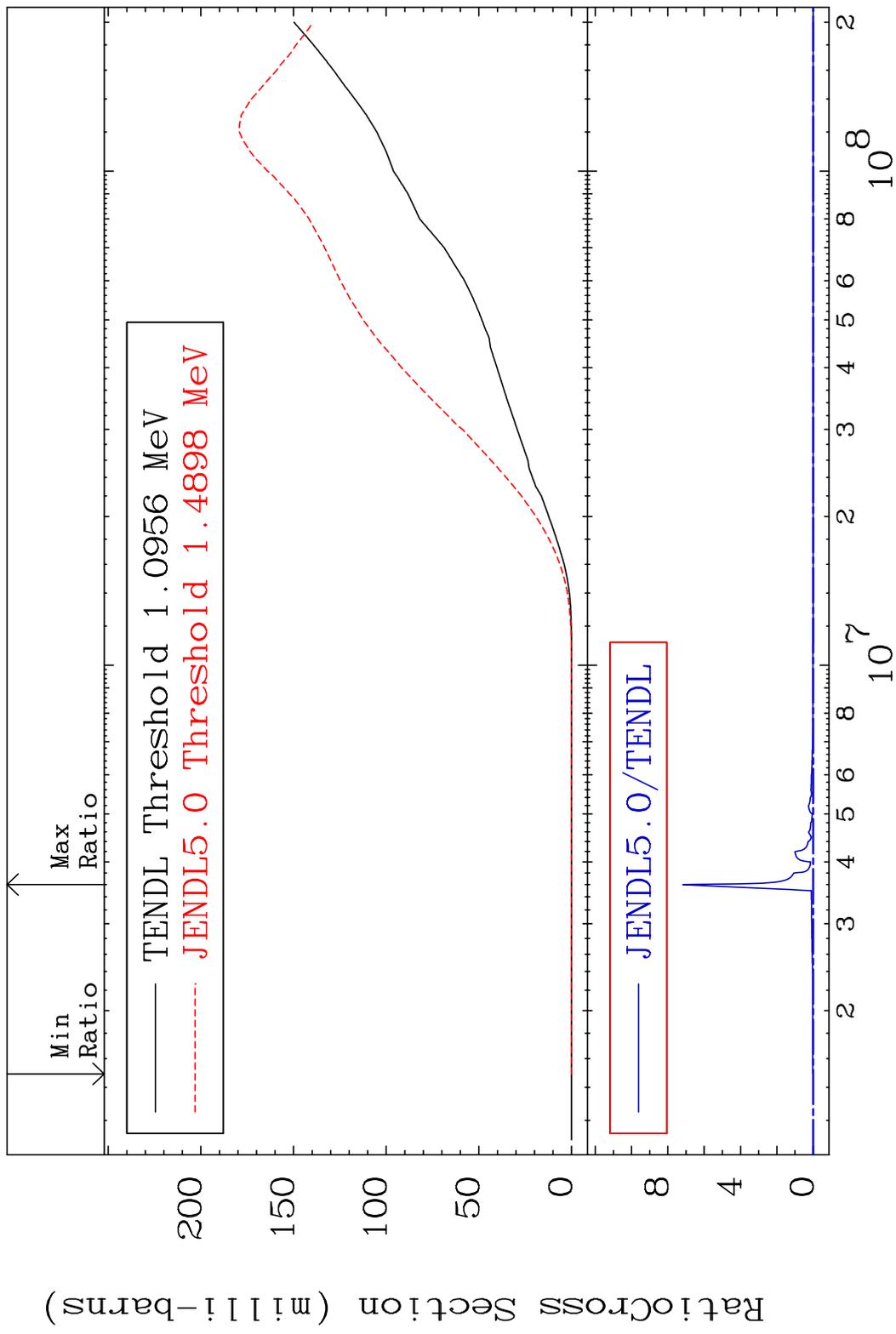


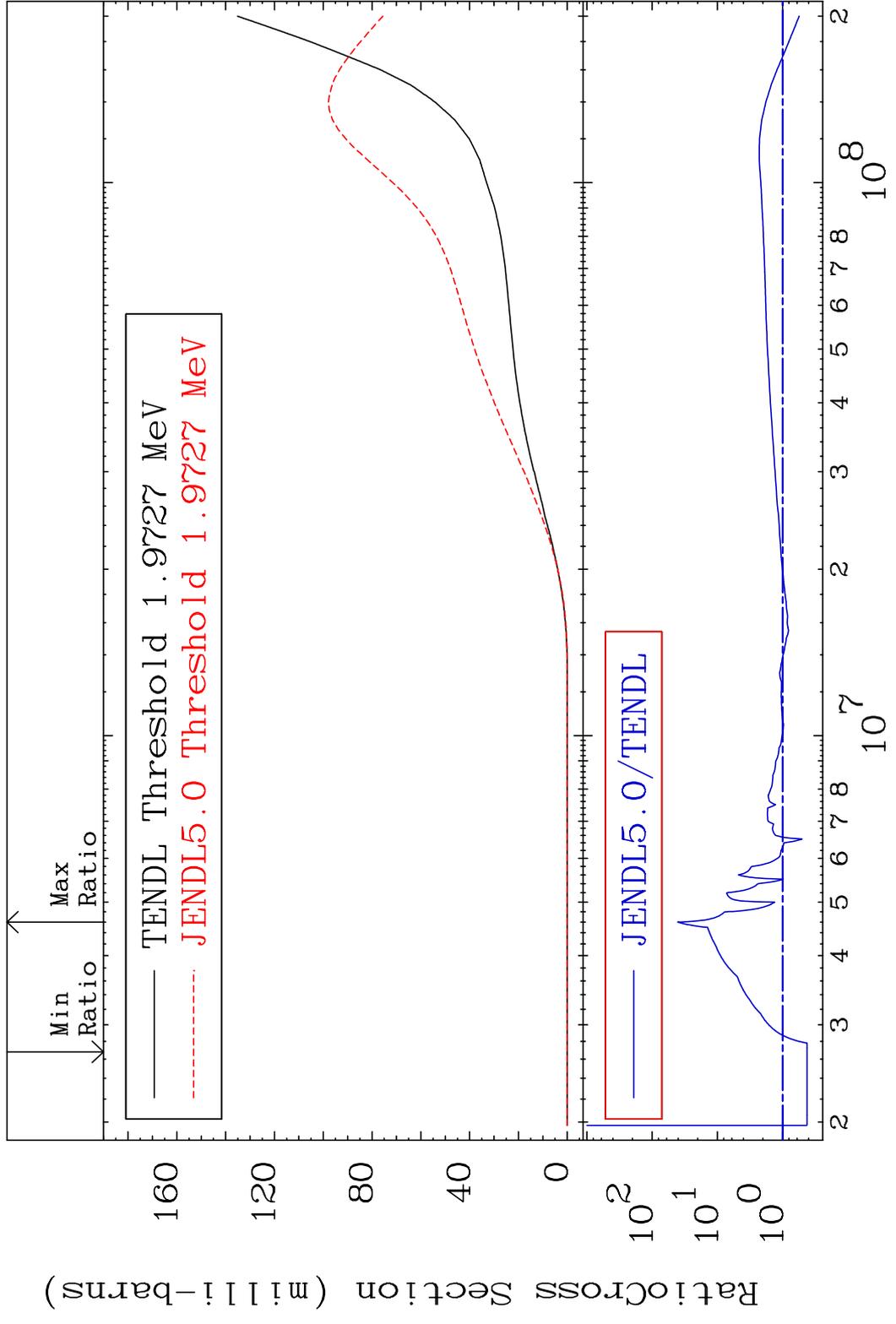
Incident Energy (eV)

50

83-Bi-208

MAT 8322 Deuterium Production 83-Bi-208
 Cross Section -100.0 To 9999. %



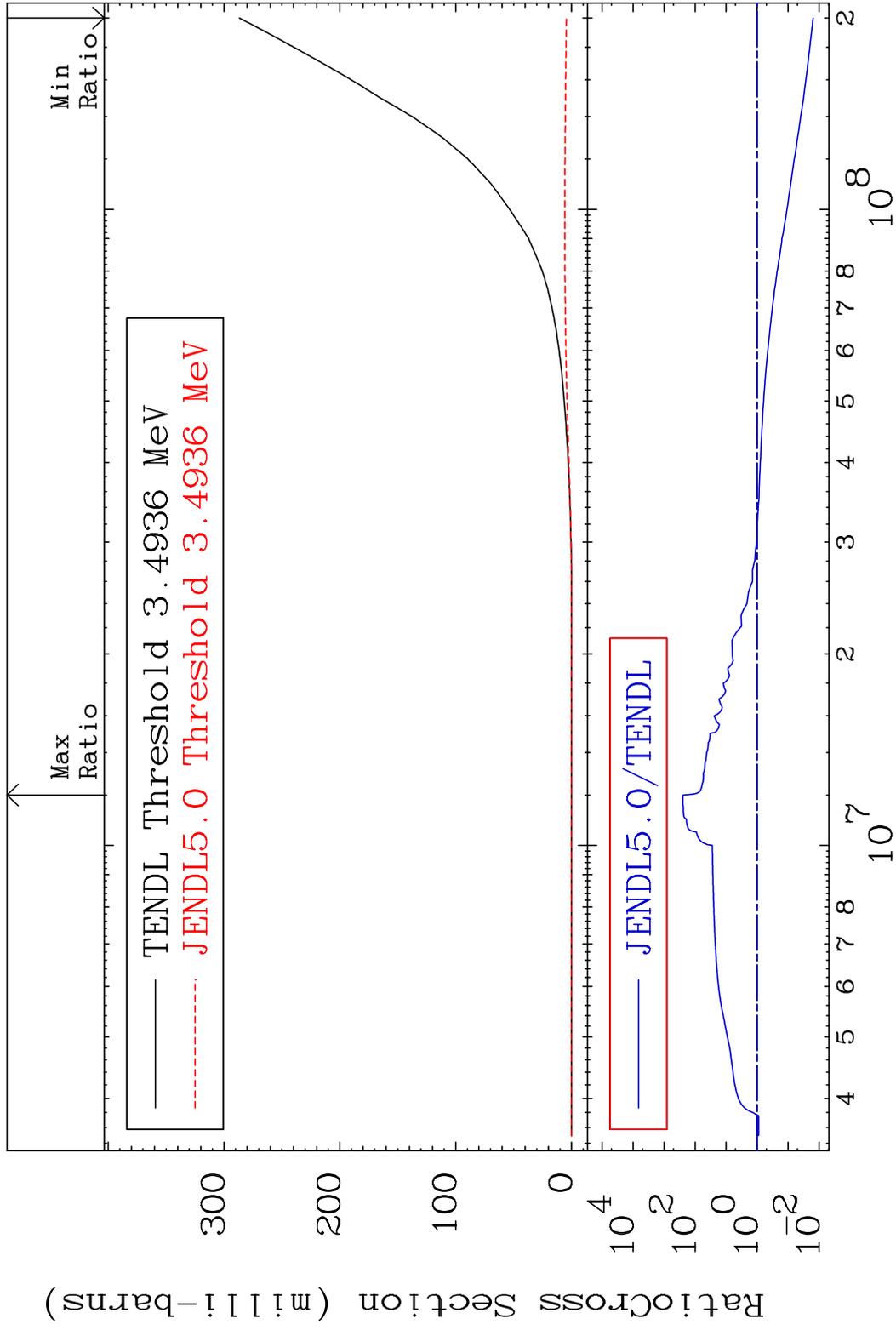


MAT 8322

He-3 Production

83-Bi-208

Cross Section -98.44 To 9999. %



53

Incident Energy (eV)

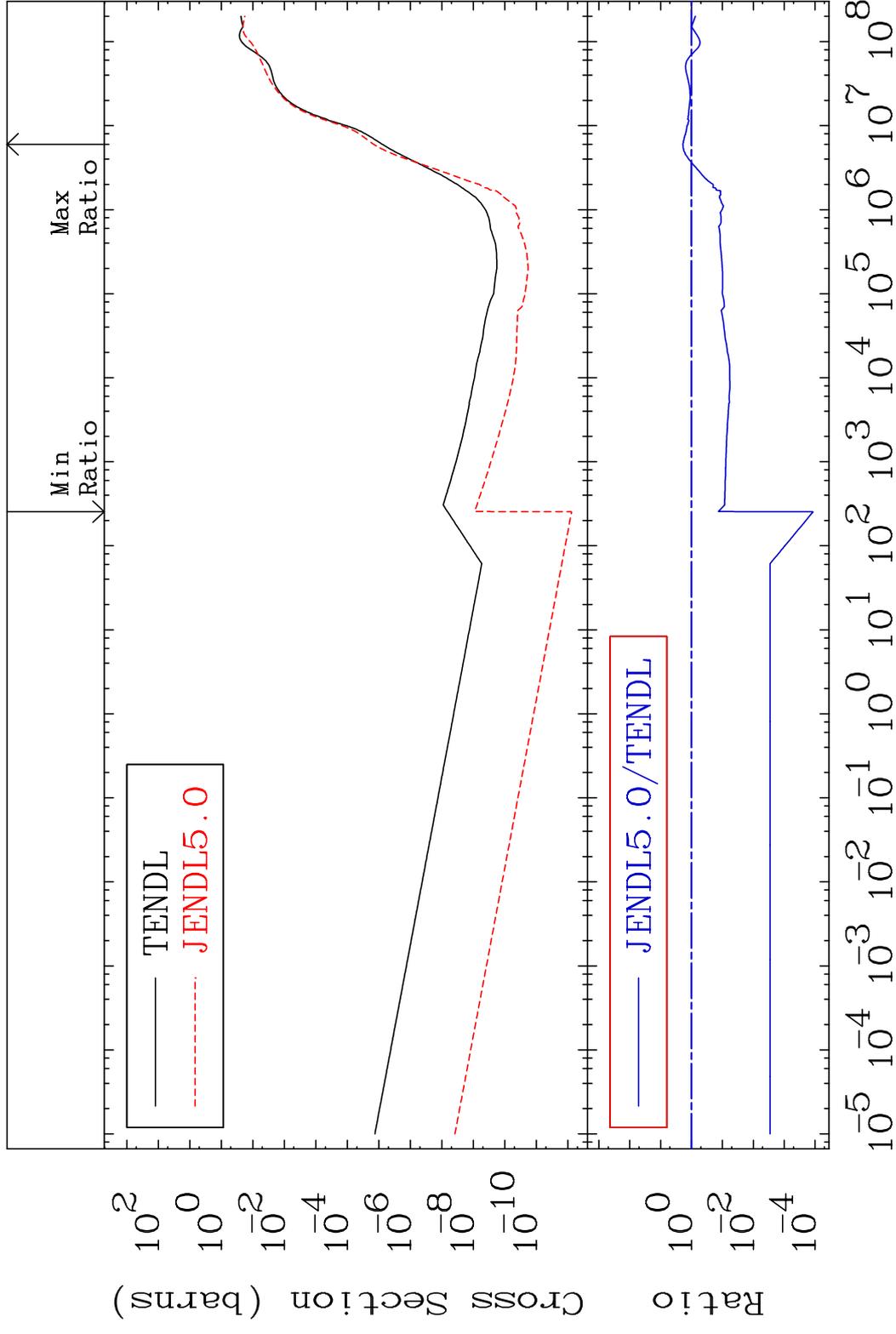
83-Bi-208

MAT 8322

He-4 Production

83-Bi-208

Cross Section -99.99 To 91.53 %

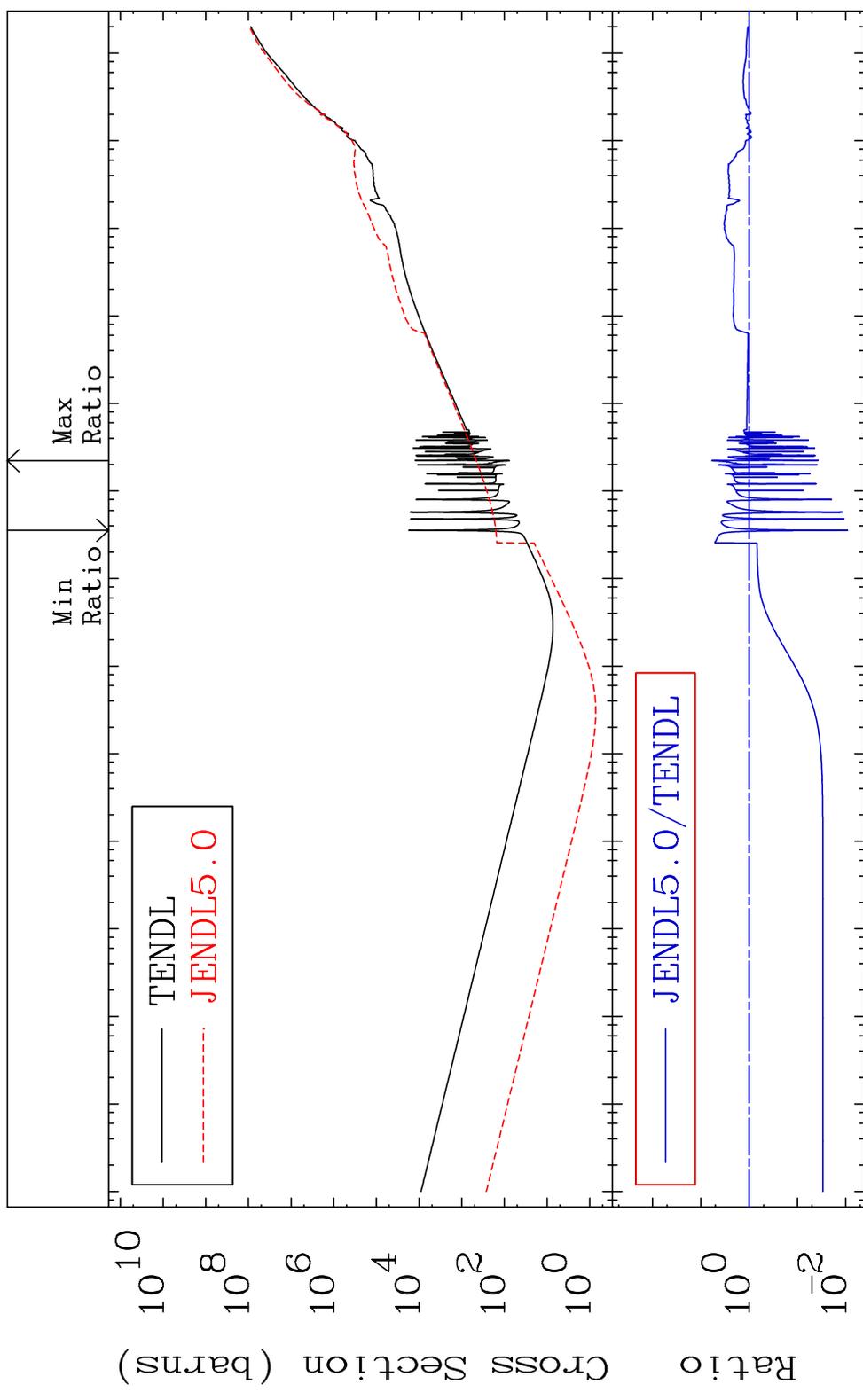


MAT 8322

Kerma total (eV-barns)

83-Bi-208

Cross Section -99.09 To 493.3 %



55

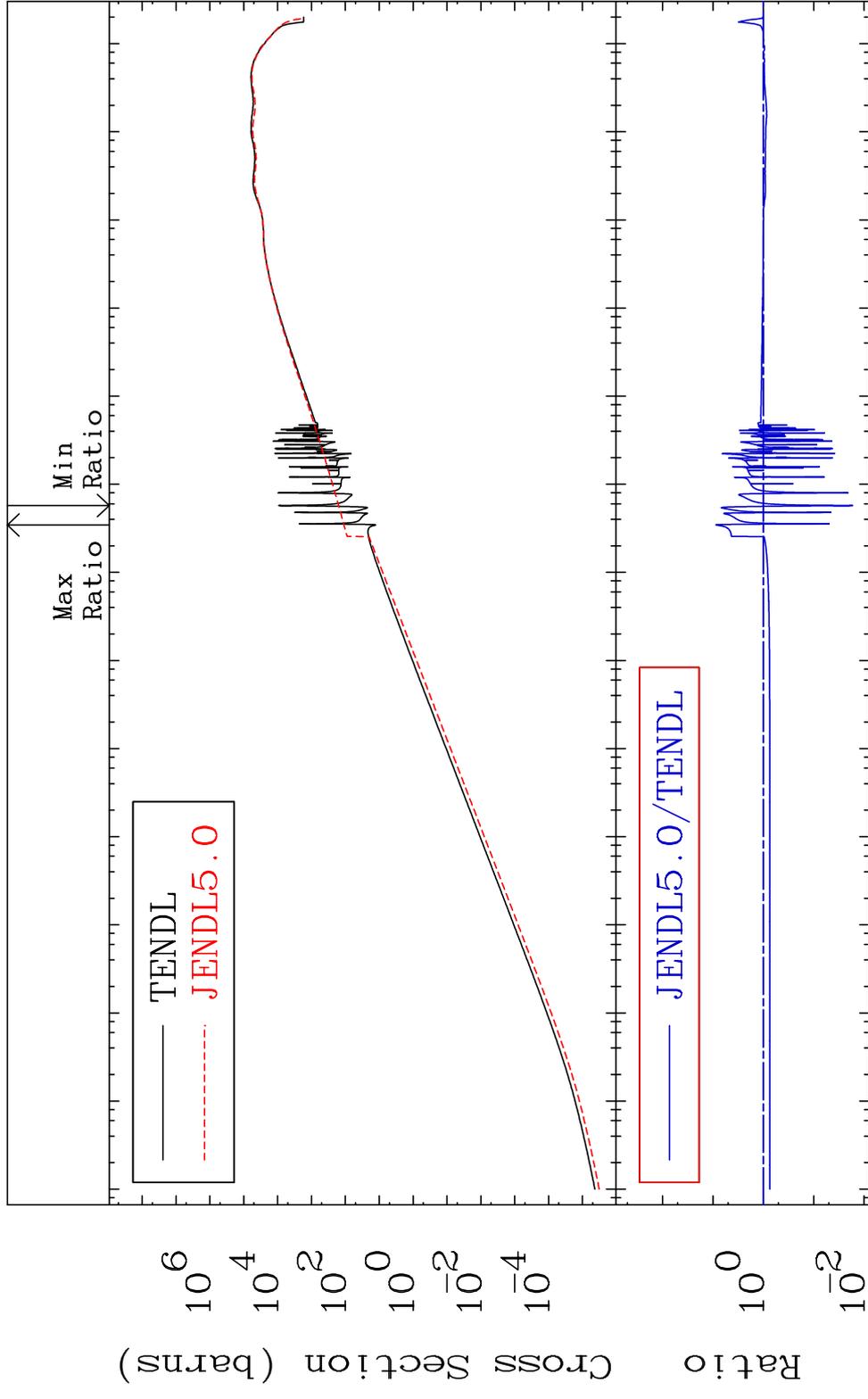
Incident Energy (eV)

83-Bi-208

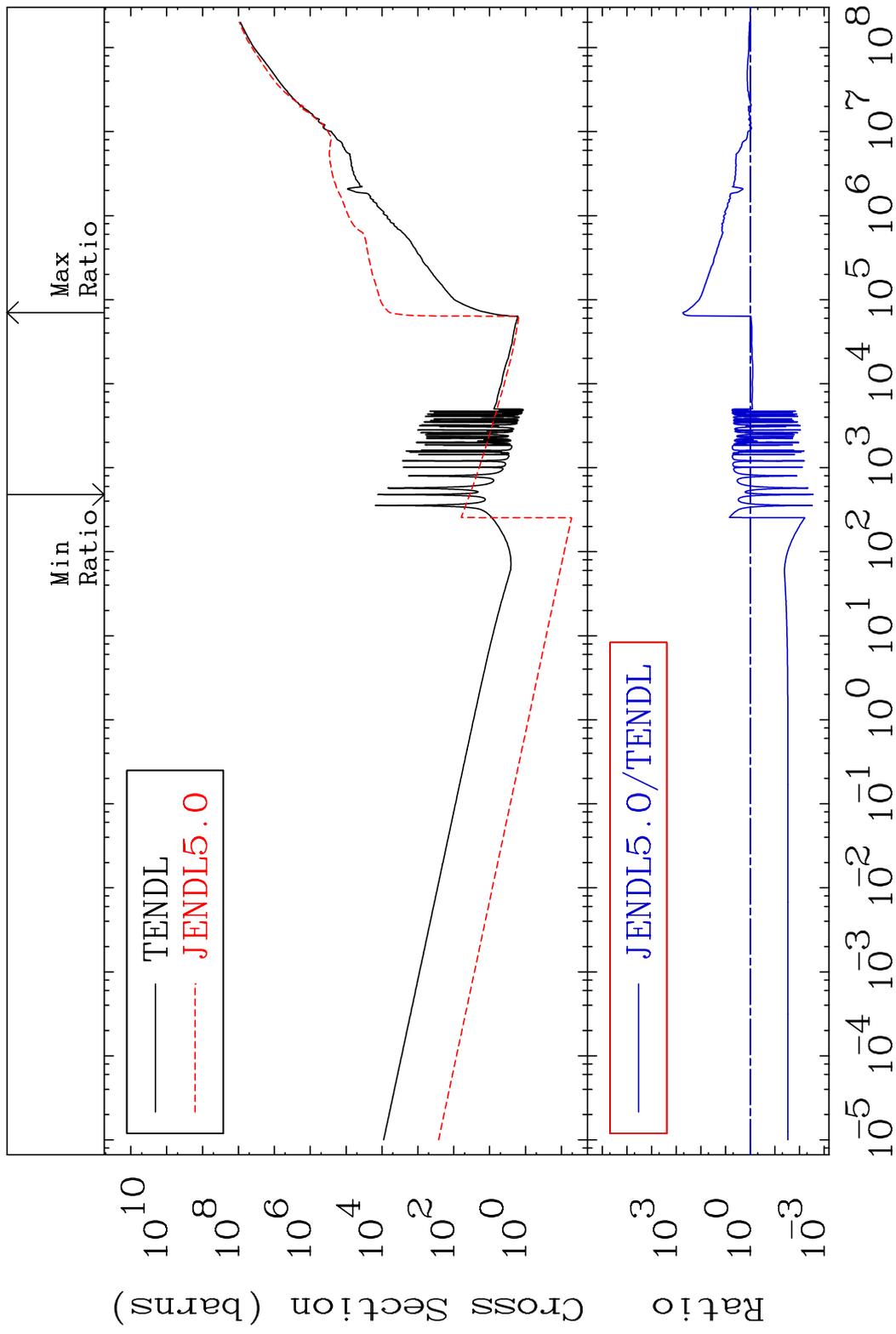
MAT 8322

Kerma elastic Cross Section -98.30 To 774.3 %

83-Bi-208

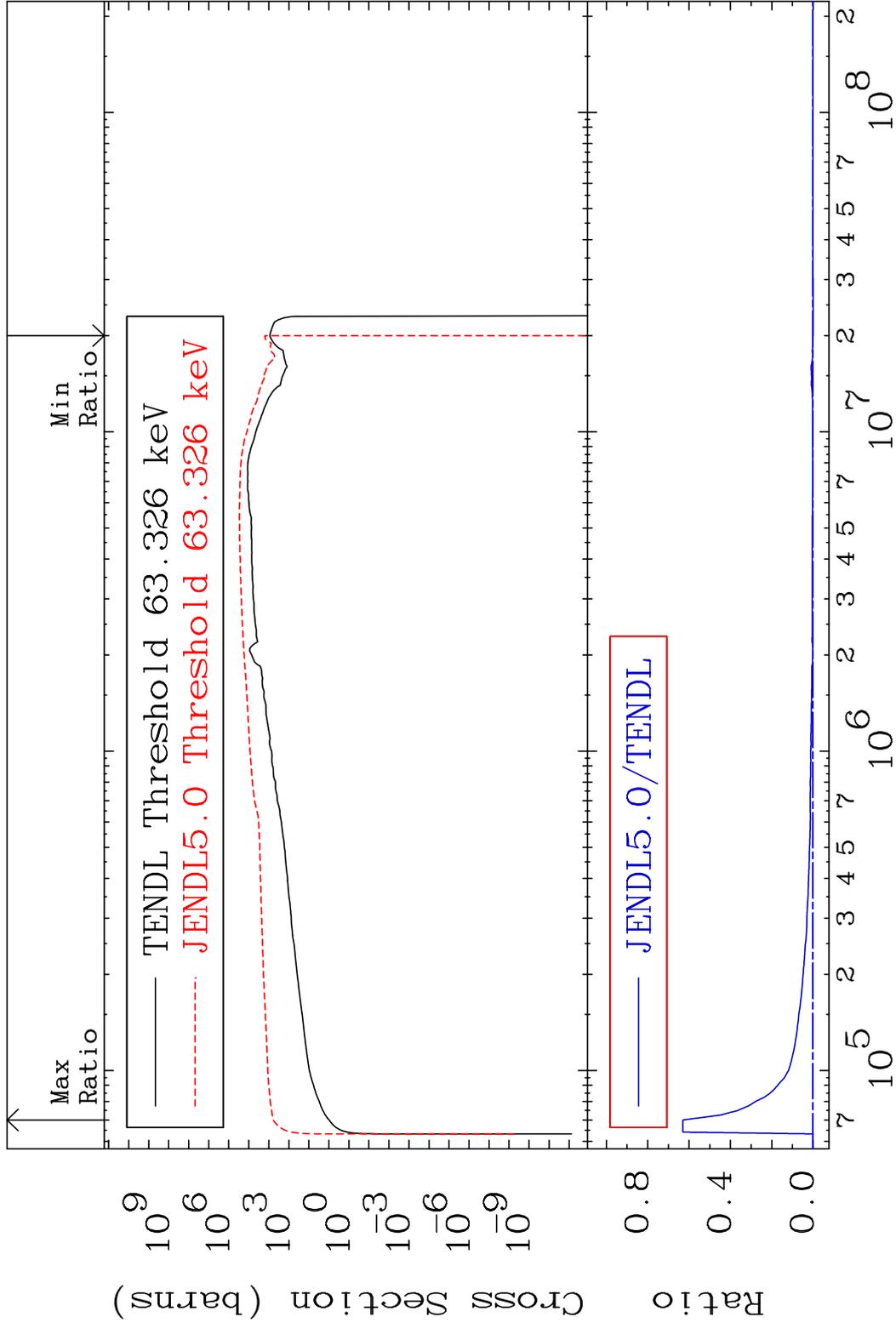


MAT 8322 Kerma non-elastic (all but mt2) 83-Bi-208
 Cross Section -99.72 To 9999. %

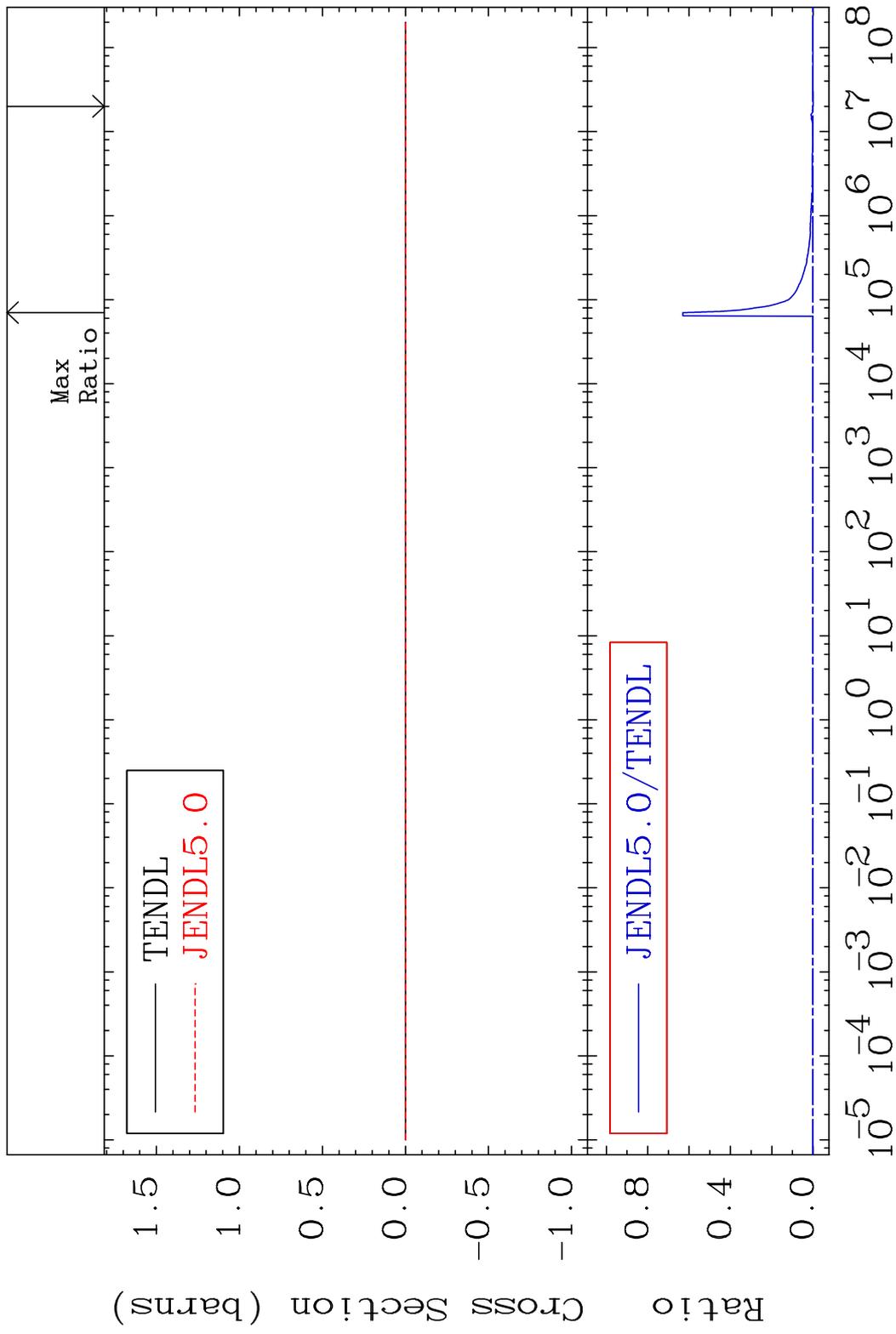


57 Incident Energy (eV) 83-Bi-208

MAT 8322 Kerma inelastic (mt51-91) 83-Bi-208
 Cross Section -100.0 To 9999. %



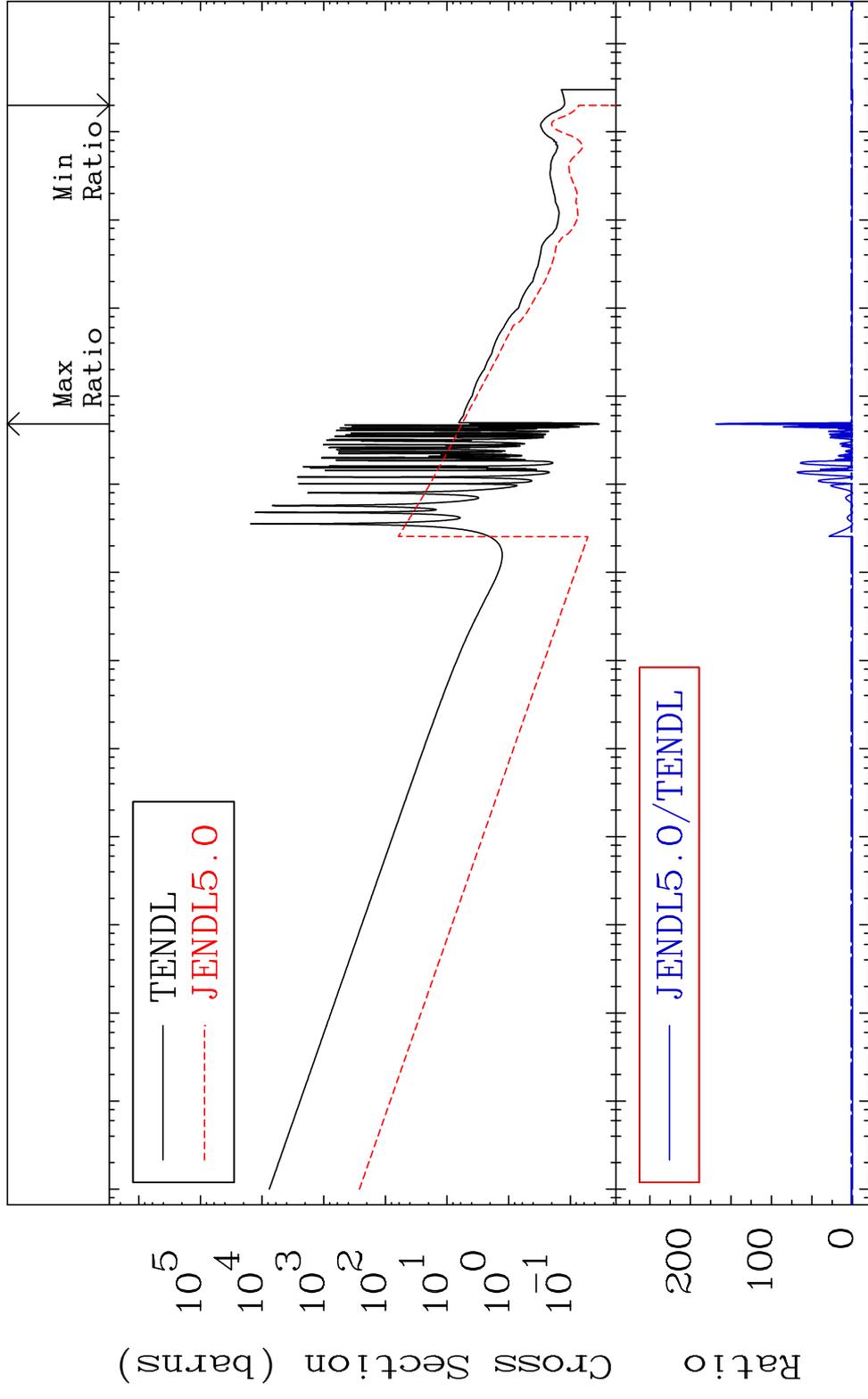
MAT 8322 Kerma fission (mt18 or mt19-20-21-38) β 3-Bi-208
 Cross Section -100.0 To 9999. %



MAT 8322

Kerma capture (mt102) 83-Bi-208

Cross Section -100.0 To 9999. %

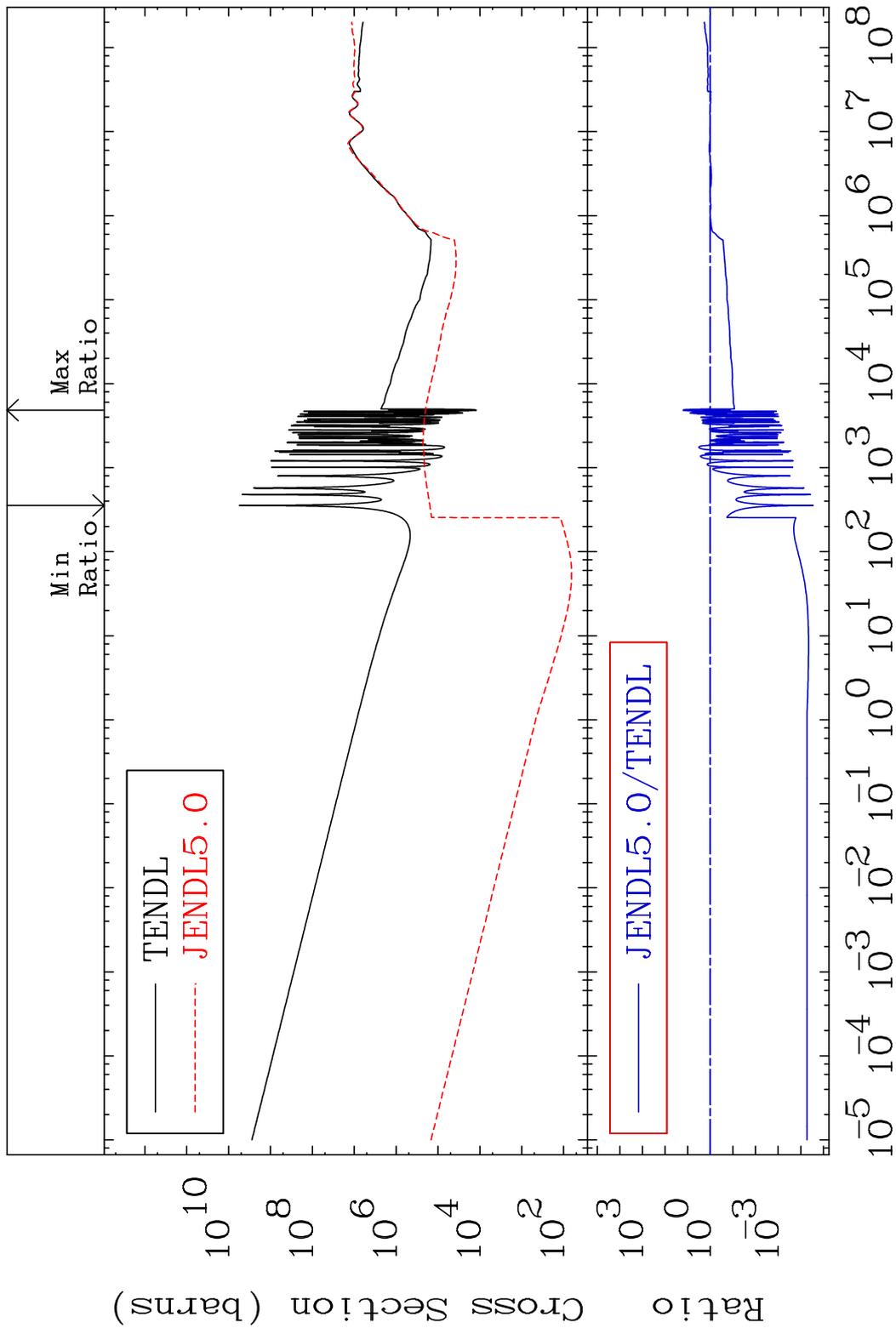


60

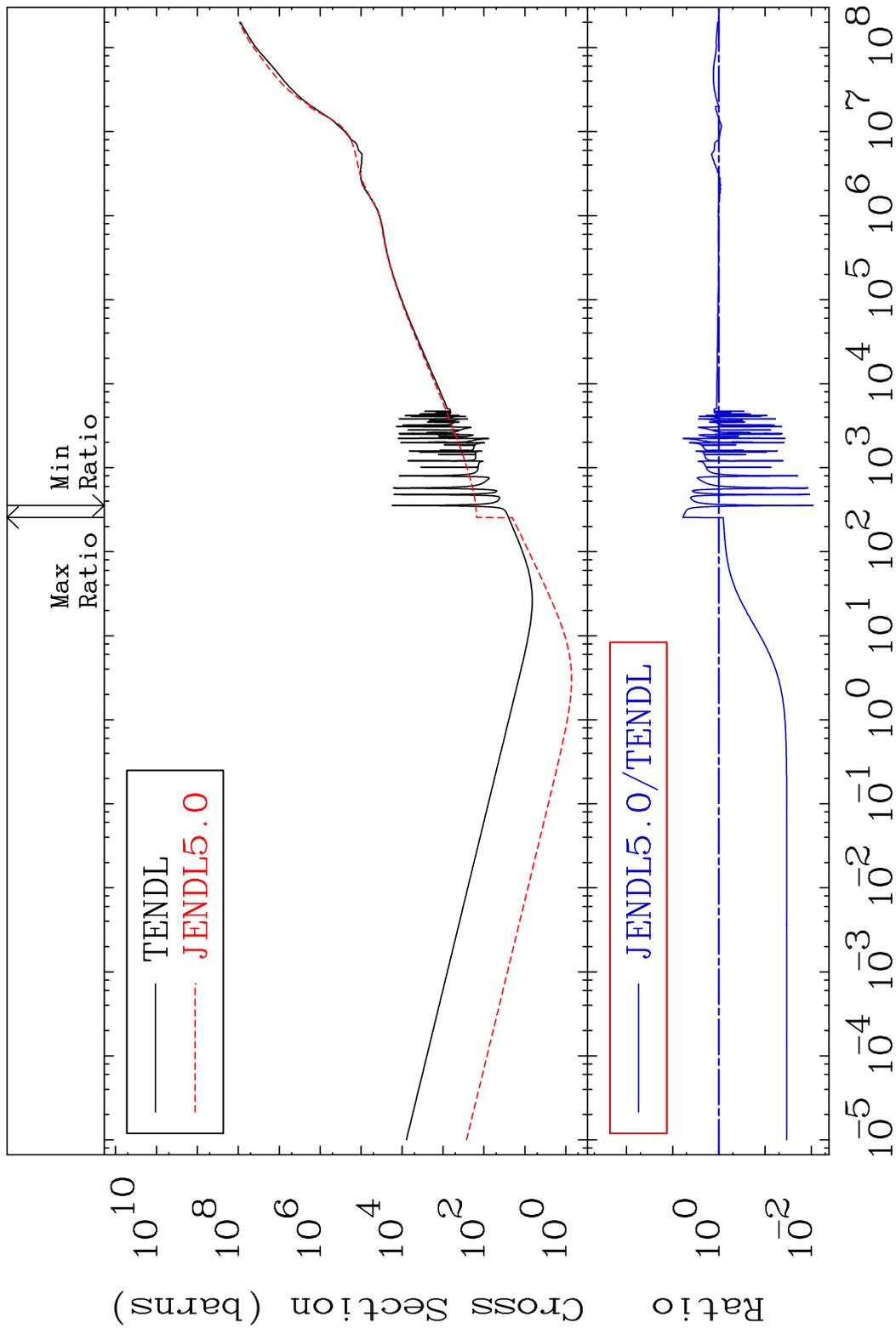
Incident Energy (eV)

83-Bi-208

MAT 8322 Total photon (eV-barns) 83-Bi-208
 Cross Section -100.0 To 1539. %



MAT 8322 Total kinematic kerma (high limit) 83-Bi-208
 Cross Section -99.09 To 503.8 %



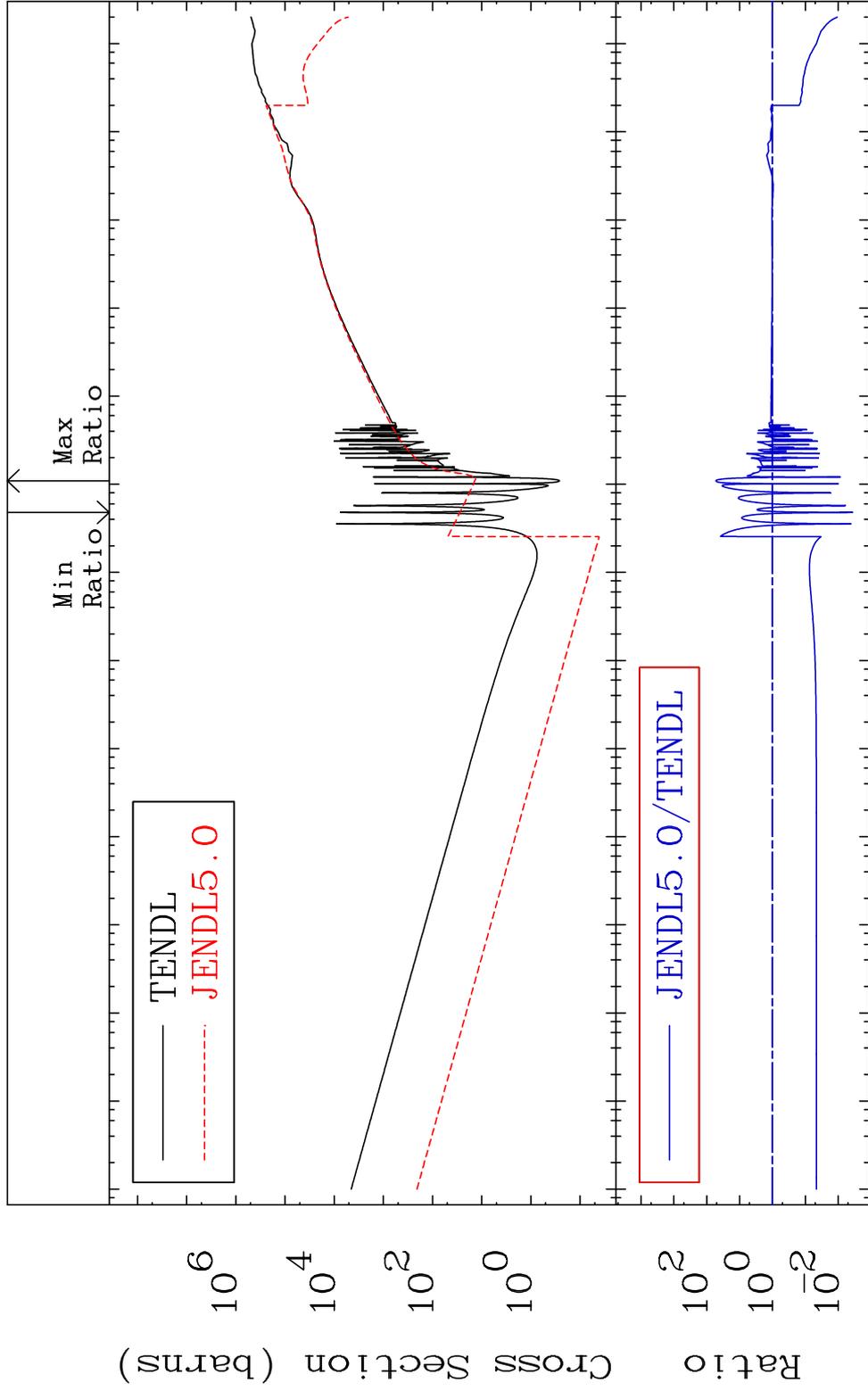
62 Incident Energy (eV) 83-Bi-208

MAT 8322

Dpa total (eV-barns)

83-Bi-208

Cross Section -99.63 To 5185. %



63

Incident Energy (eV)

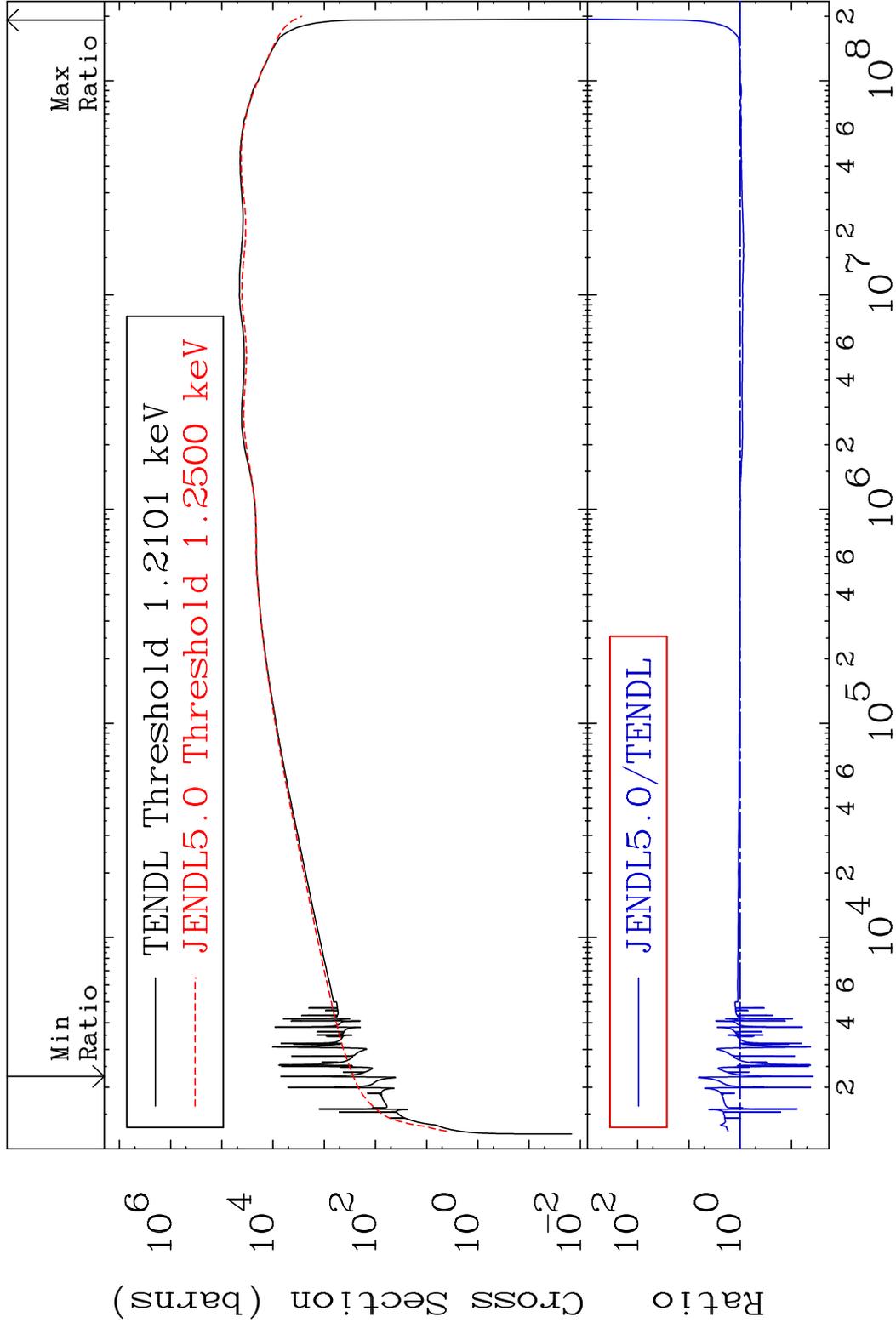
83-Bi-208

MAT 8322

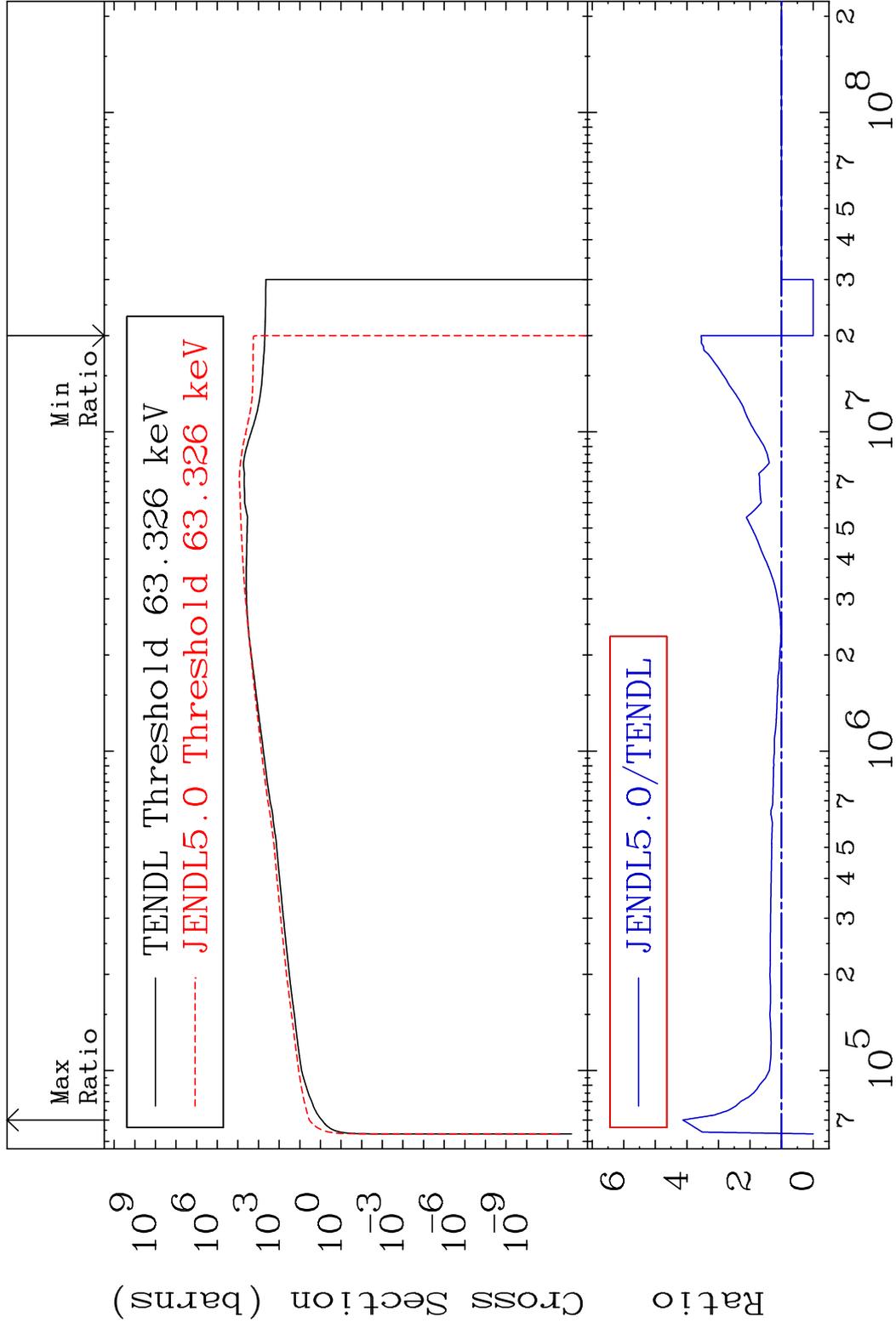
Dpa elastic (mt2)

83-Bi-208

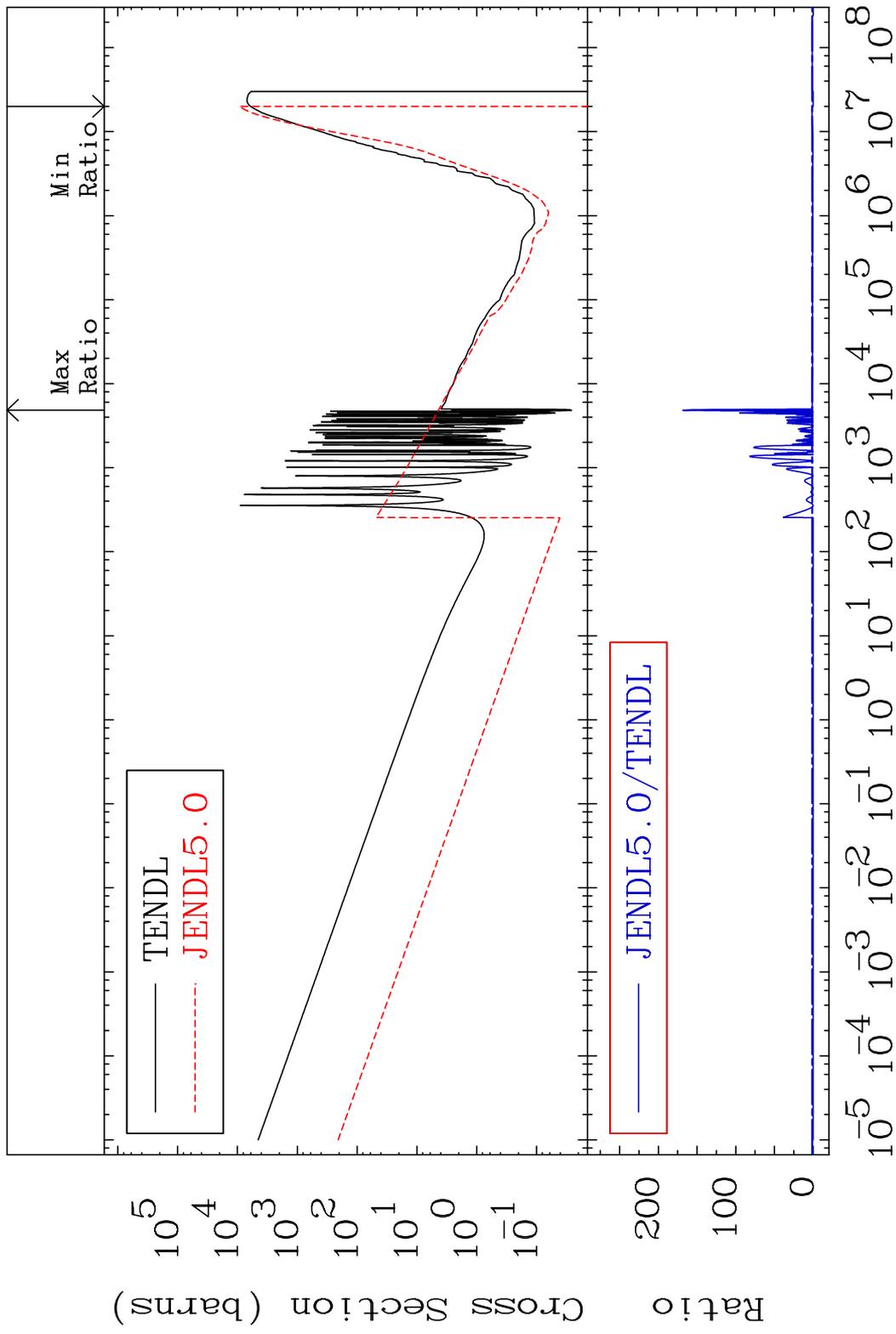
Cross Section -96.20 To 1215. %



MAT 8322 Dpa inelastic (mt51-91) 83-Bi-208
 Cross Section -100.0 To 312.8 %



MAT 8322 Dpa disappearance (mt102 -120) 83-Bi-208
 Cross Section -100.0 To 9999. %



66 Incident Energy (eV) 83-Bi-208

