

Program Complot
(Version 2021-1)

by

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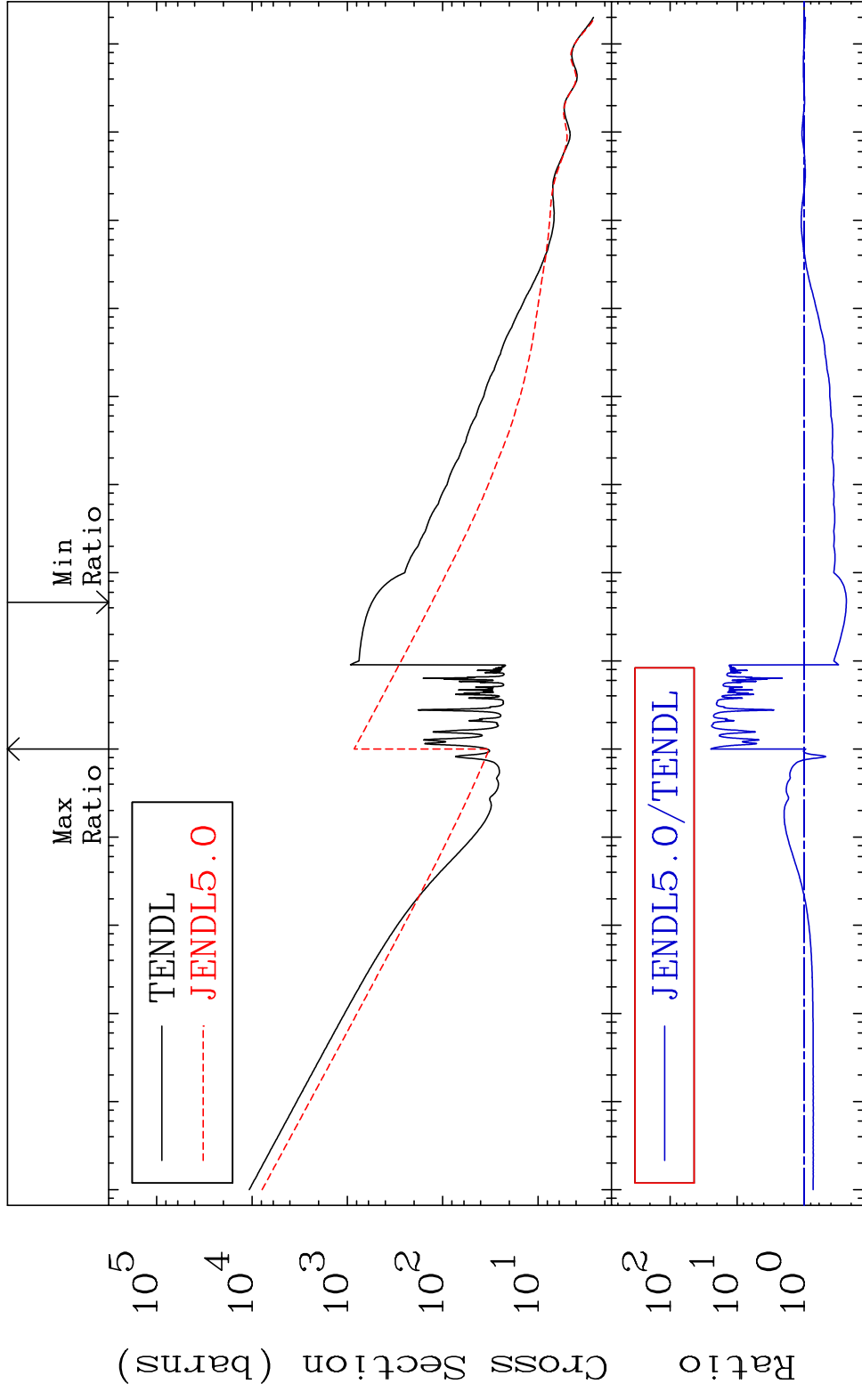
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7116

Total
Cross Section -76.47 To 2378. %

71-Lu-172



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

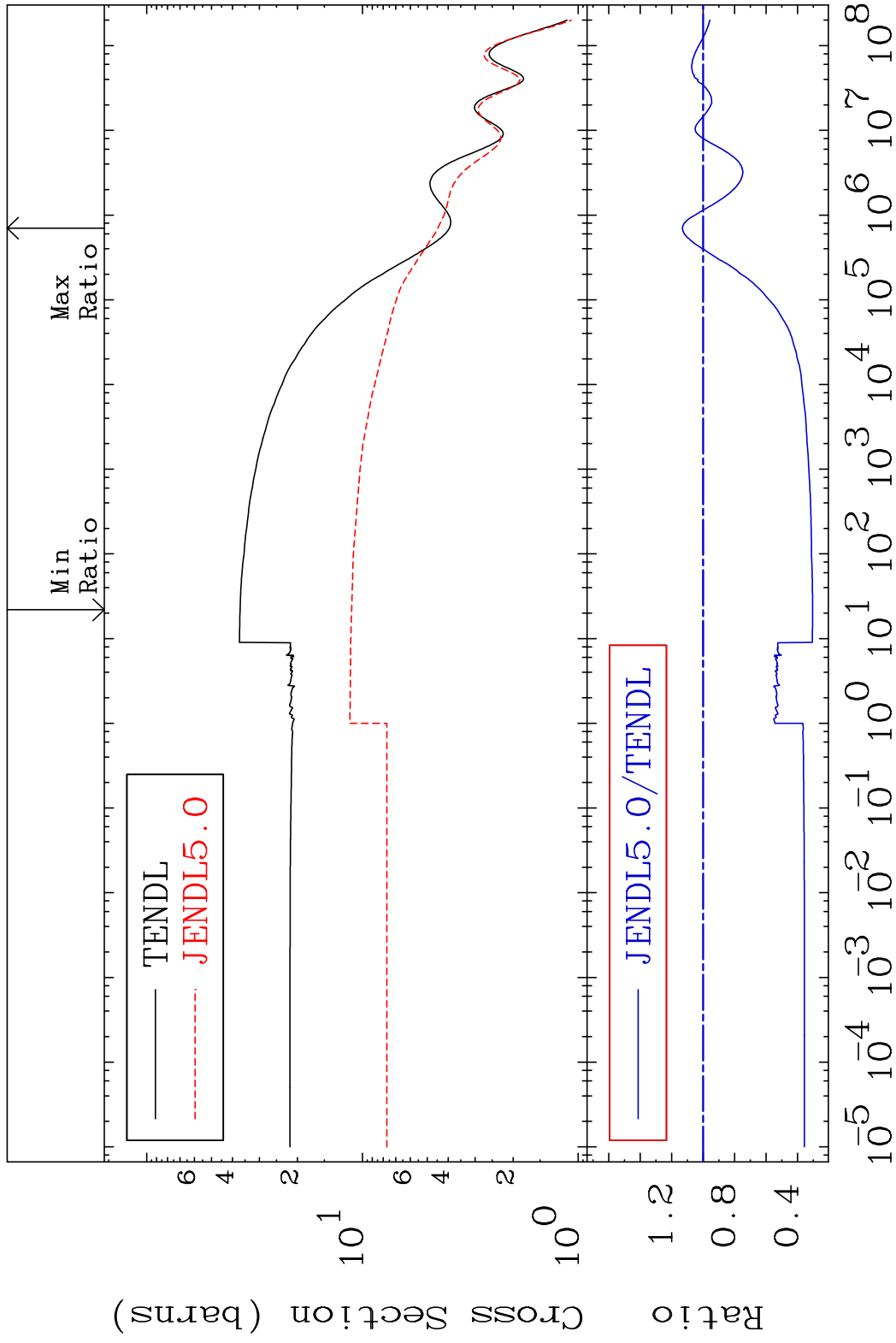
1 Incident Energy (eV) 71-Lu-172

MAT 7116

Elastic

71-Lu-172

Cross Section -69.59 To 13.17 %

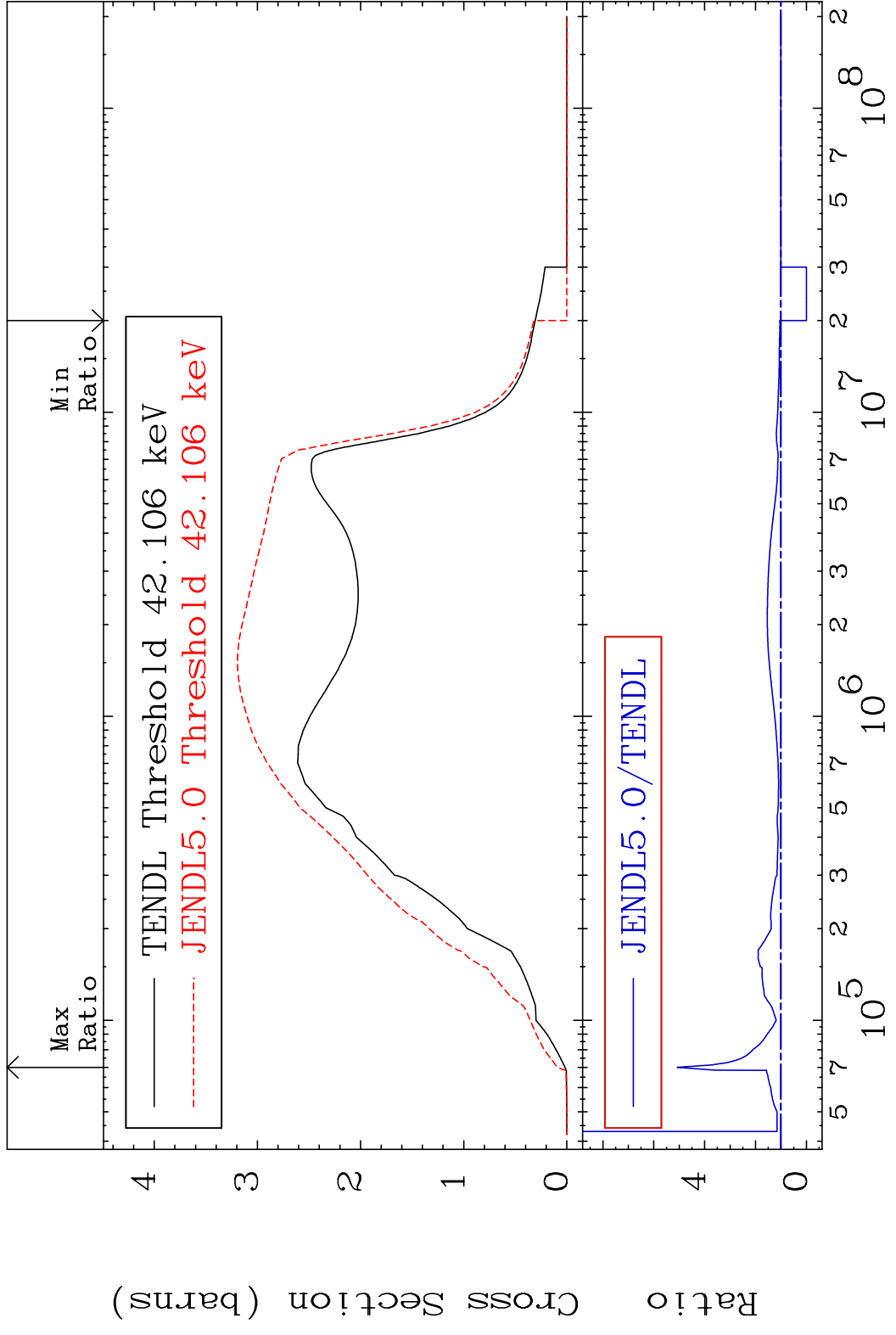


2

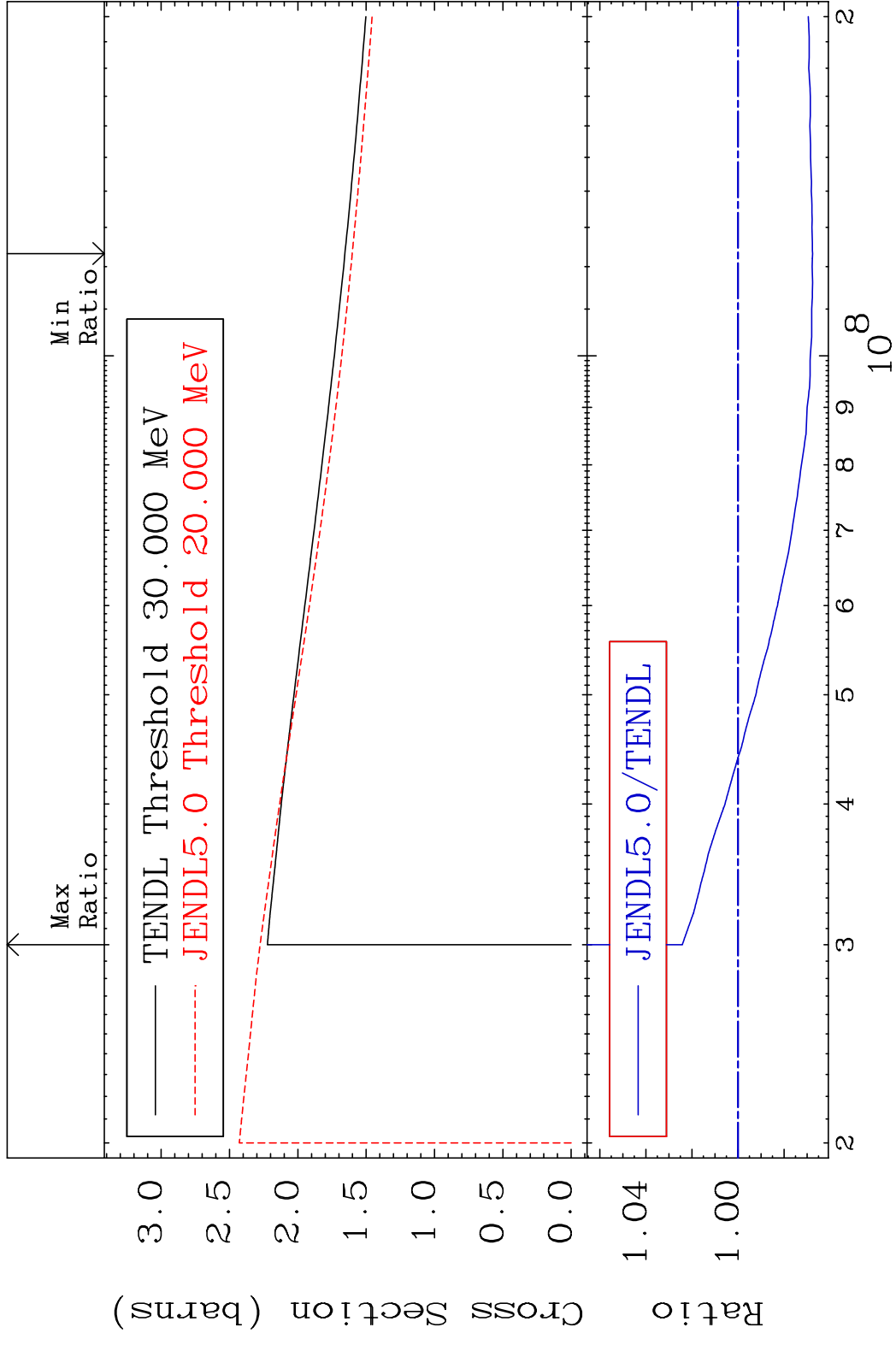
Incident Energy (eV)

71-Lu-172

MAT 7116 Inelastic 71-Lu-172
 Cross Section -100.0 To 407.9 %



MAT 7116 (n, remainder) 71-Lu-172
 Cross Section -3.239 To 2.416 %



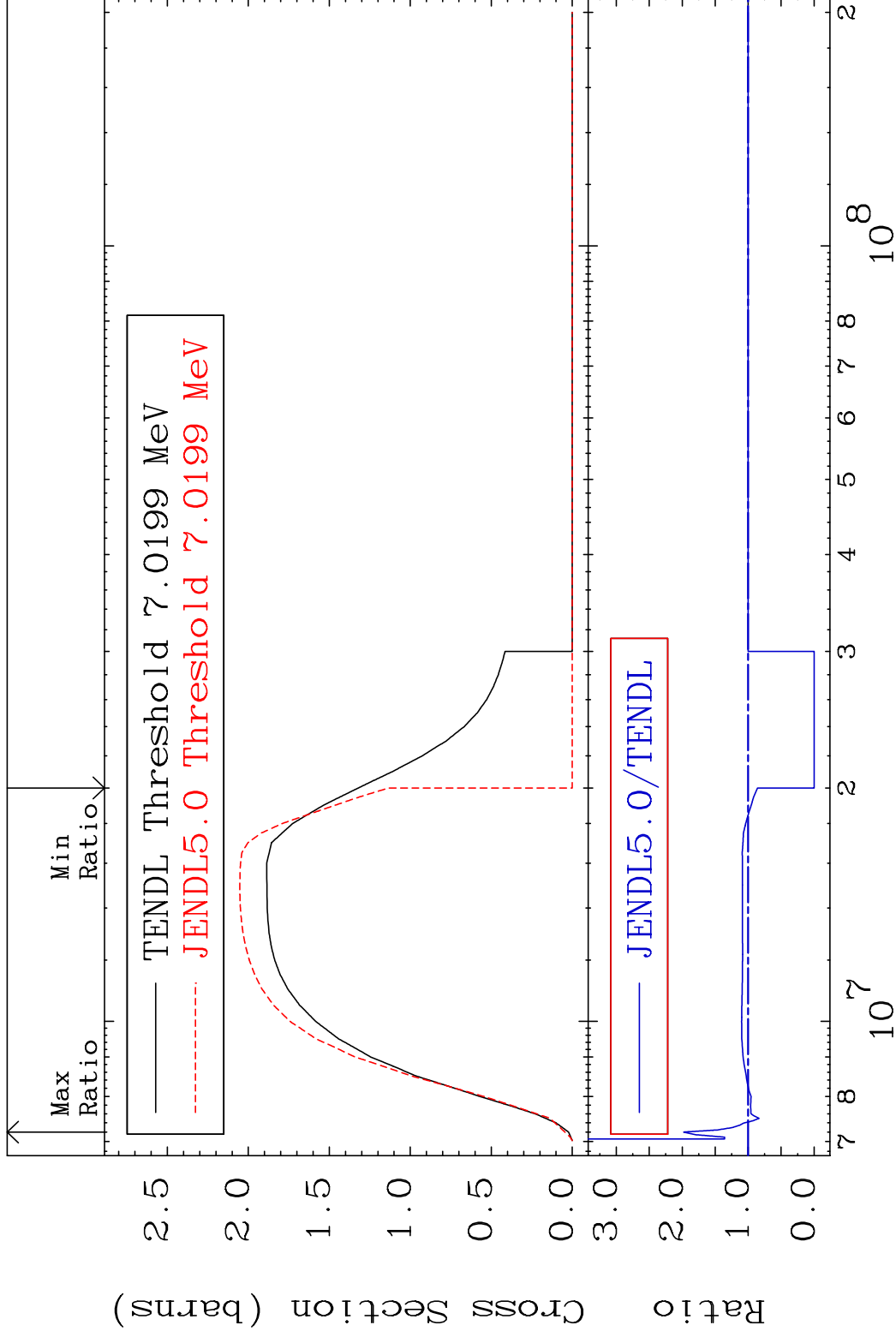
4 Incident Energy (eV) 71-Lu-172

MAT 7116

(n,2n)

71-Lu-172

Cross Section -100.0 To 97.84 %



5

Incident Energy (eV)

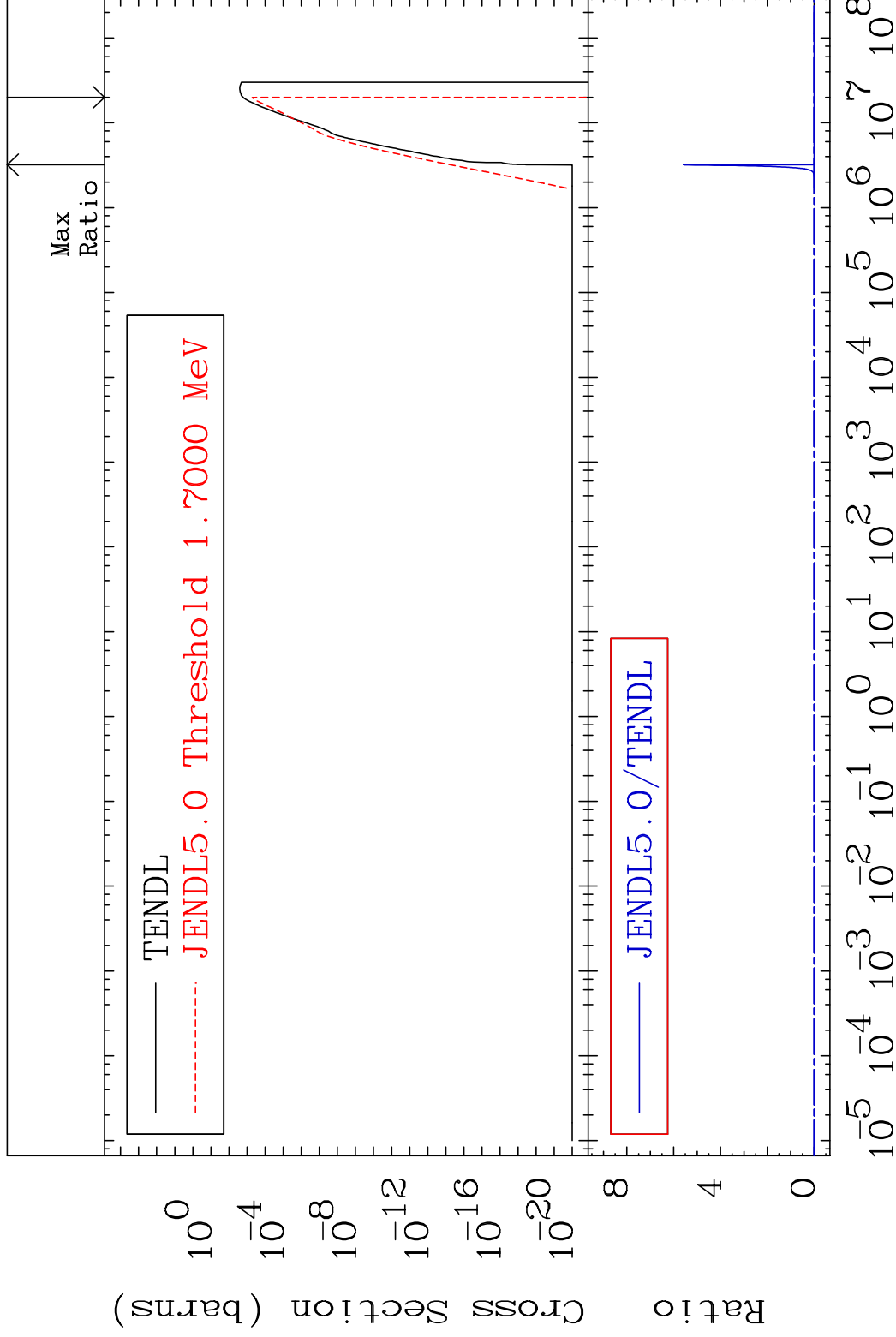
71-Lu-172

MAT 7116

(n, n') α

71-Lu-172

Cross Section -100.0 To 9999. %

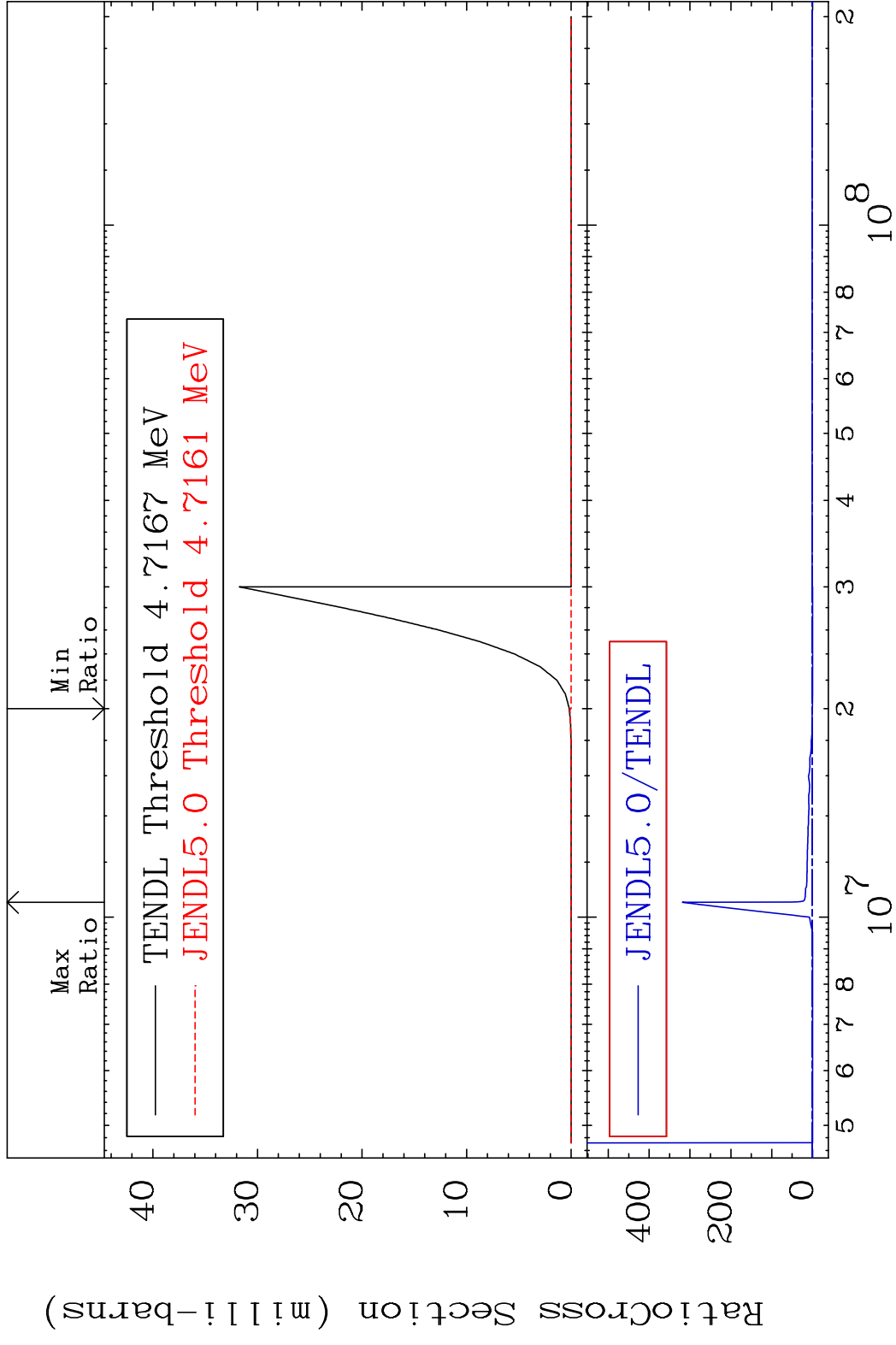


7

Incident Energy (eV)

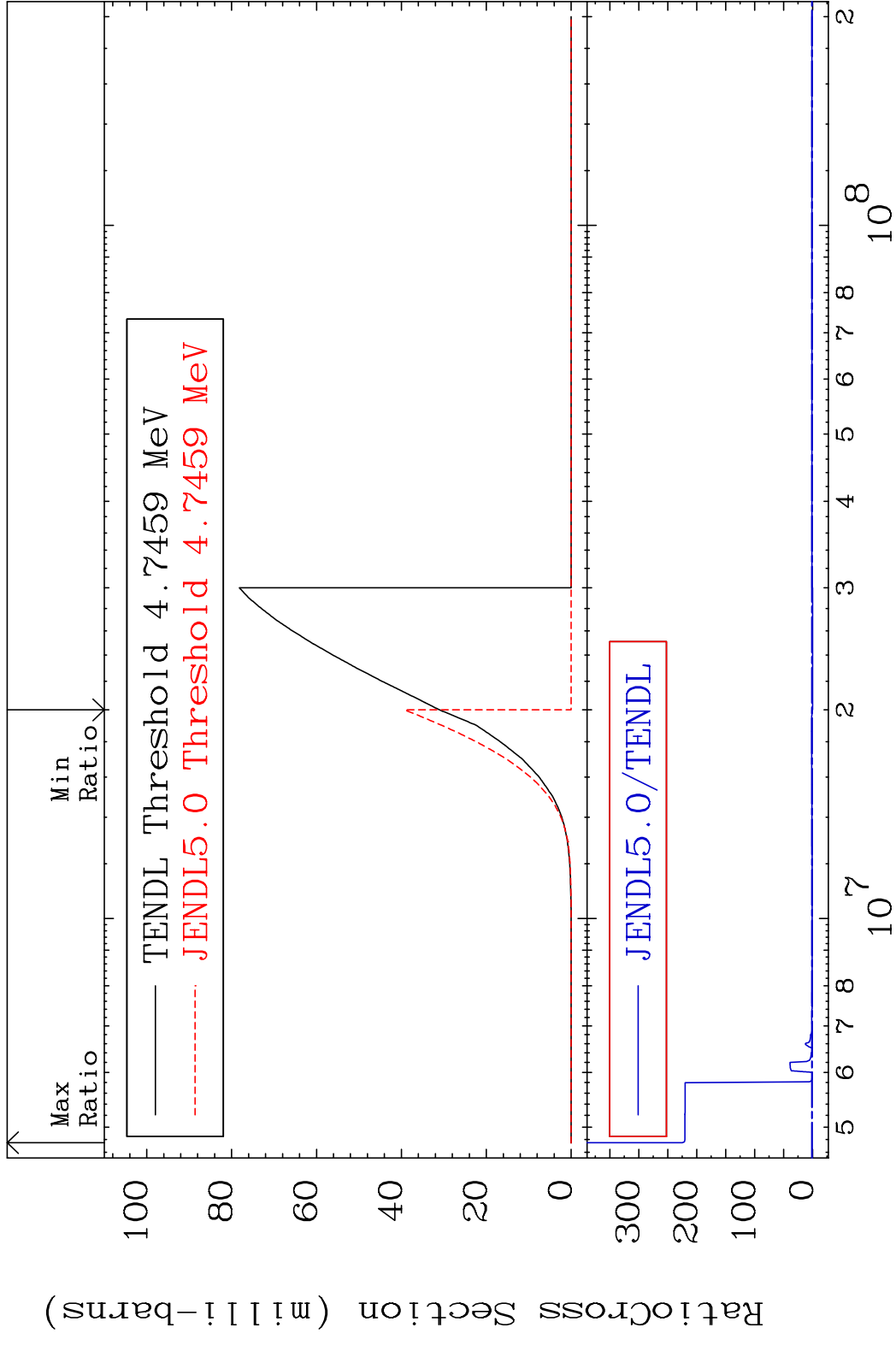
71-Lu-172

MAT 7116 (n,2n) α 71-Lu-172
 Cross Section -100.0 To 9999. %



8 8 71-Lu-172

MAT 7116 (n, n') p 71-Lu-172
 Cross Section -100.0 To 9999. %

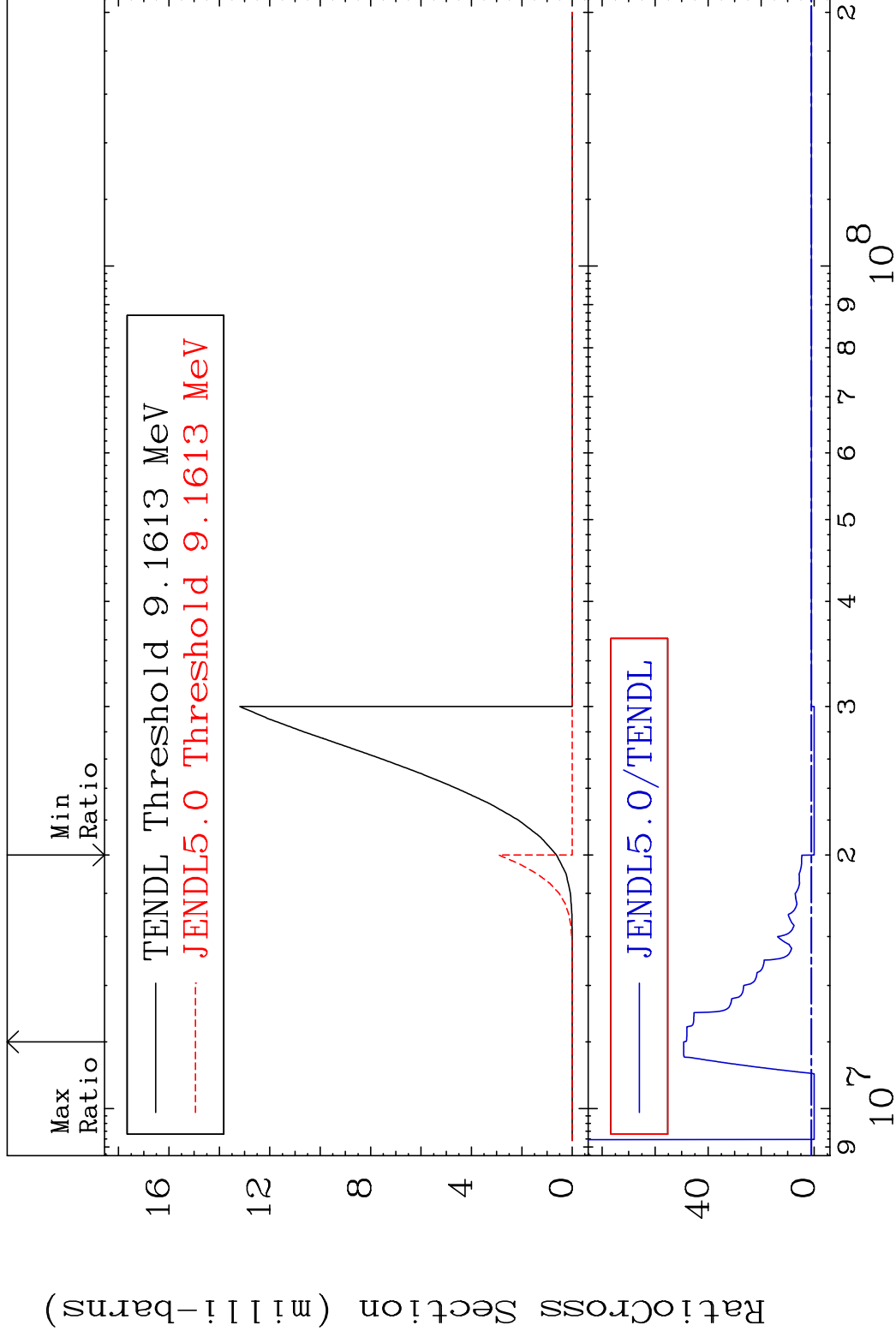


MAT 71116

(n, n') d

71-Lu-172

Cross Section -100.0 To 4825. %



10

Incident Energy (eV)

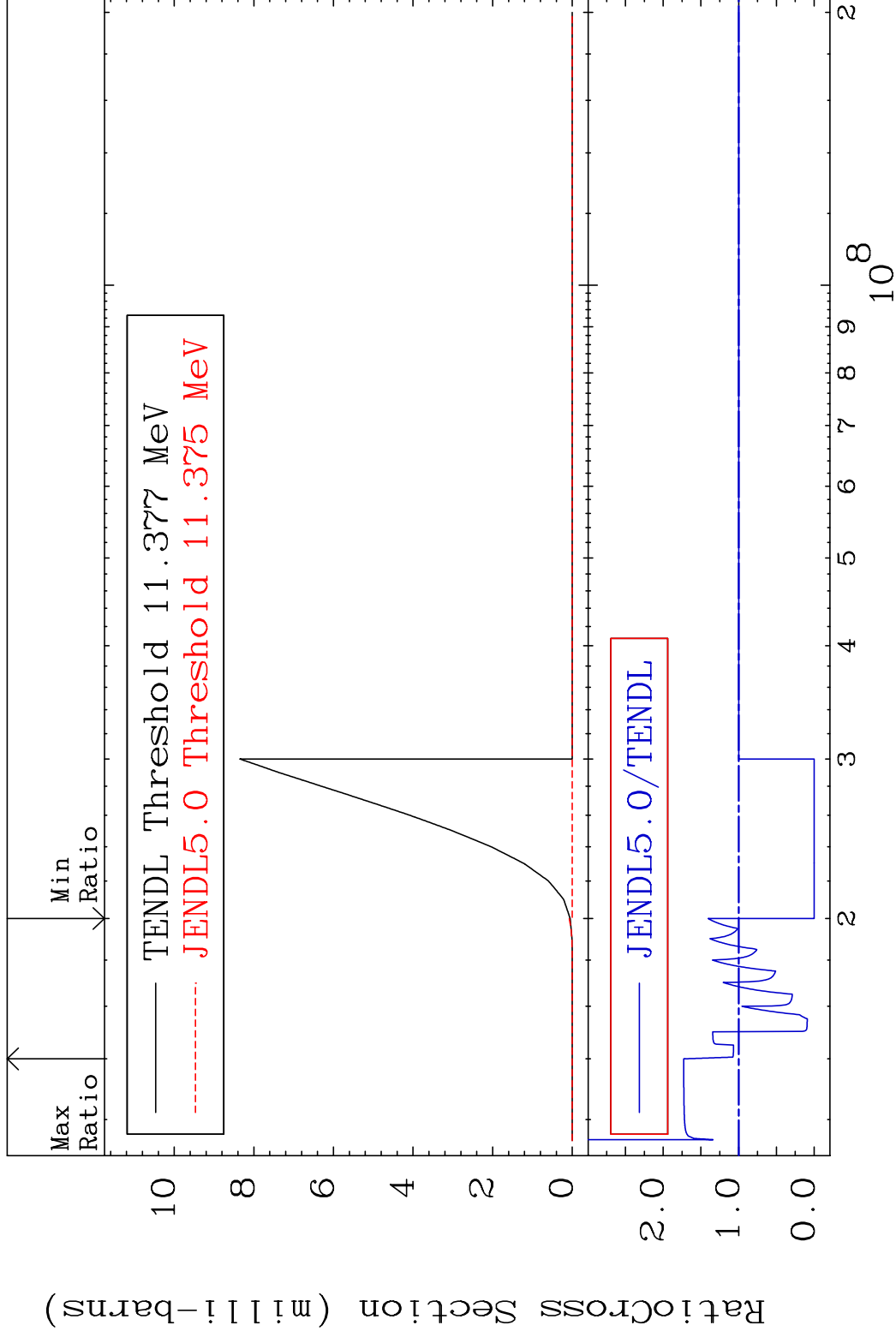
71-Lu-172

MAT 7116

(n, n') t

71-Lu-172

Cross Section -100.0 To 72.90 %

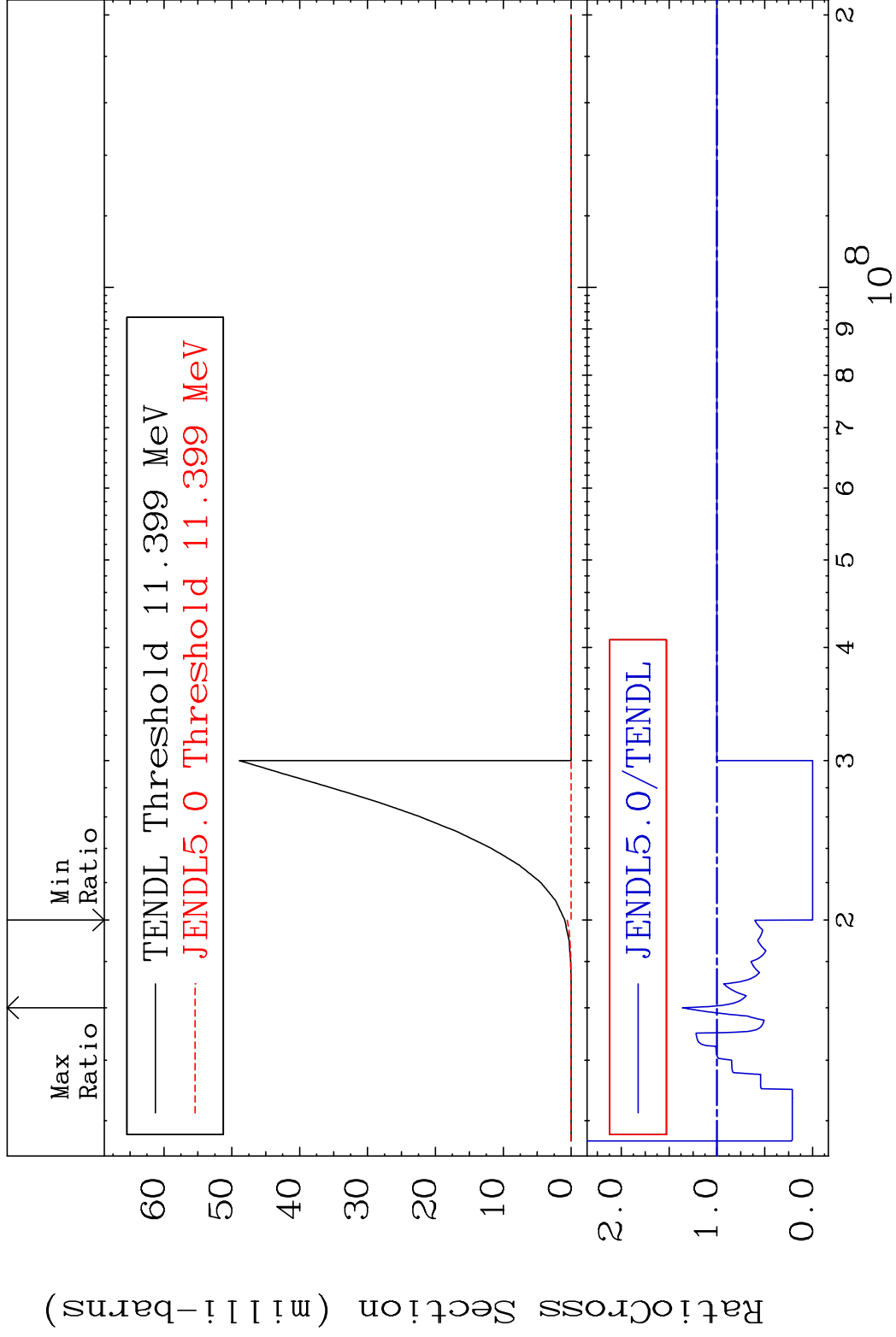


MAT 7116

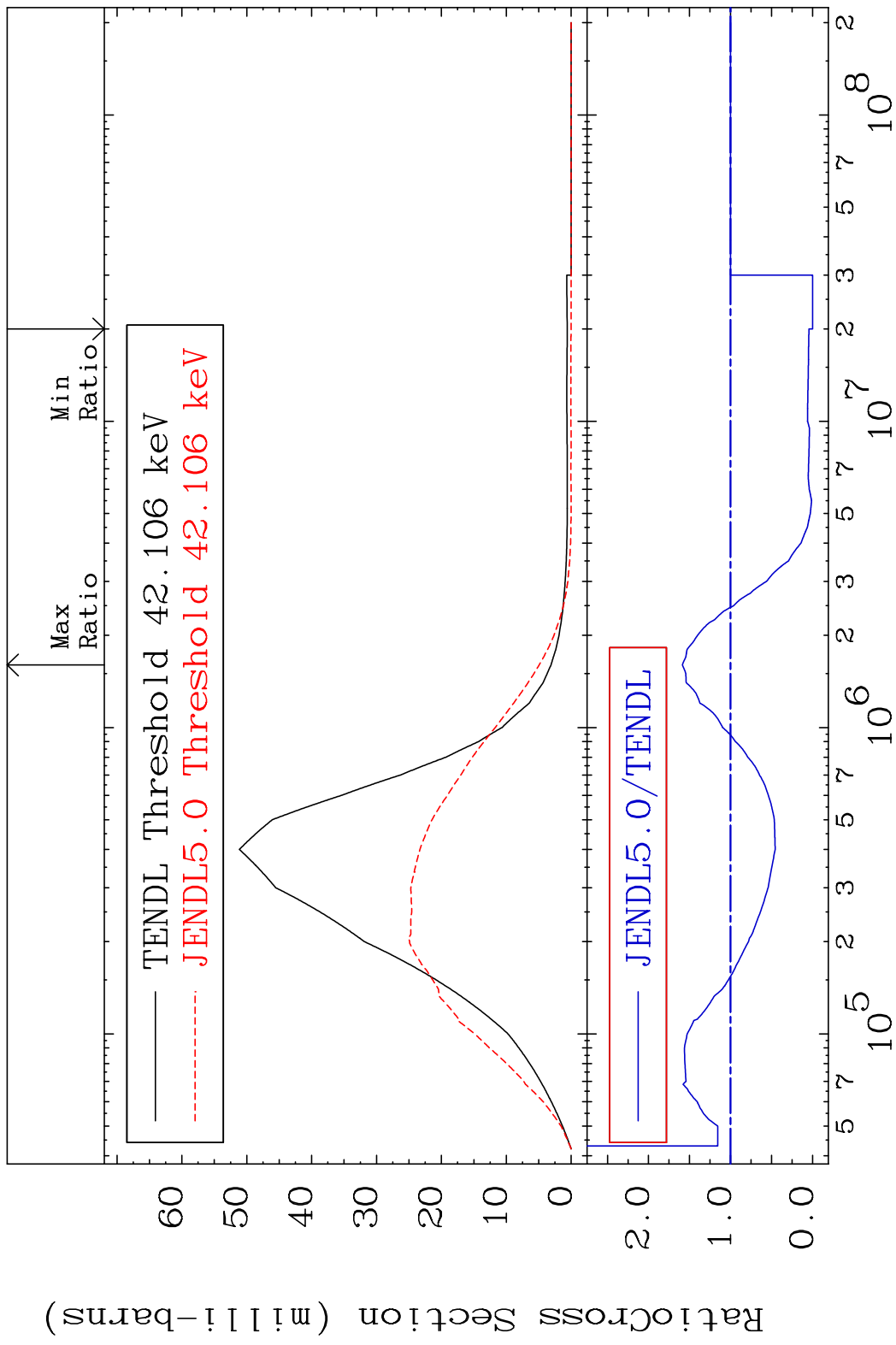
(n,2n) p

71-Lu-172

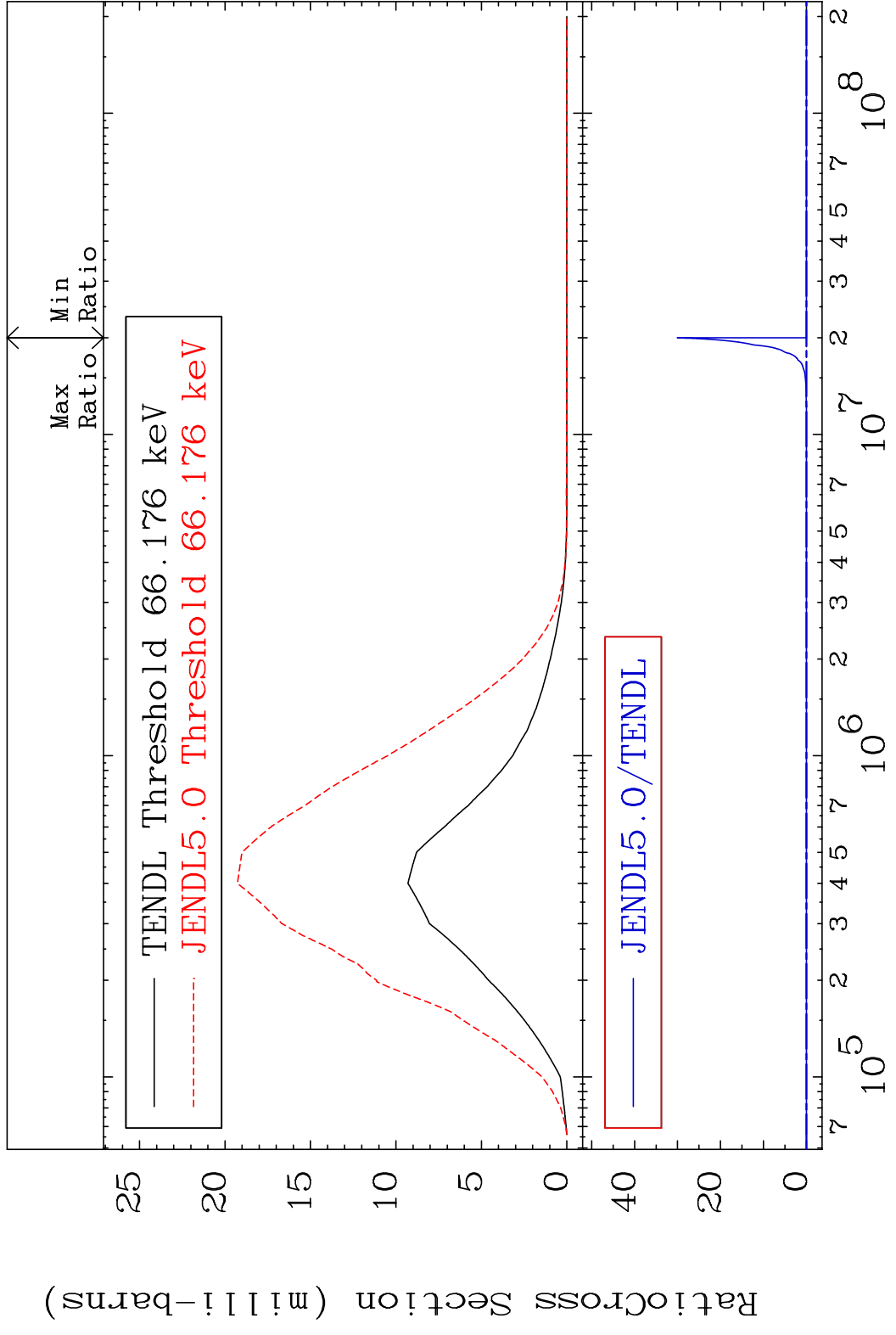
Cross Section -100.0 To 36.16 %



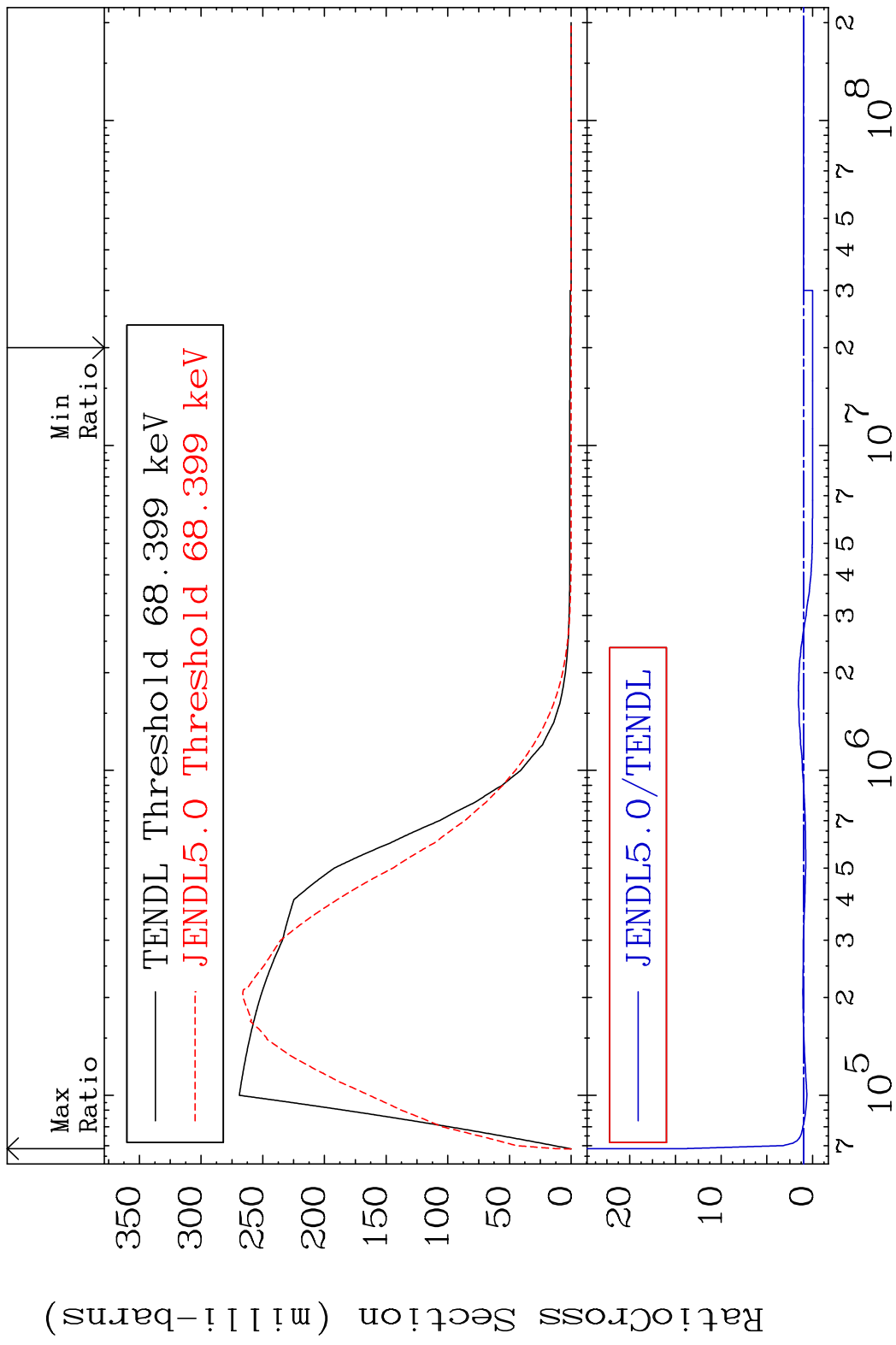
MAT 71116 MT= 51 (n, n') Level 71-Lu-172
 Cross Section -100.0 To 58.74 %



MAT 71116 MT= 52 (n, n') Level 71-Lu-172
 Cross Section -100.0 To 9999. %

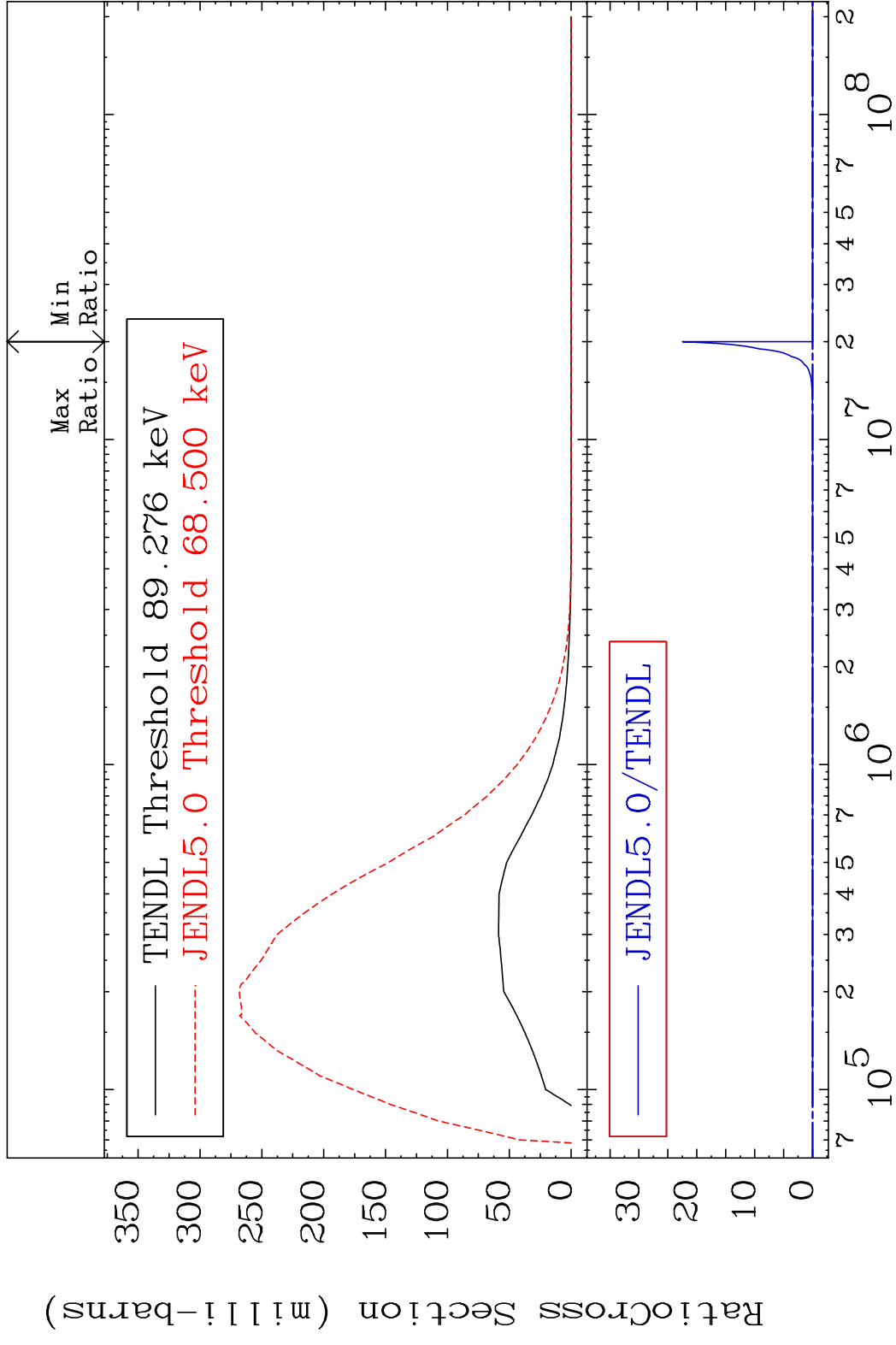


MAT 7116 MT= 53 (n, n') Level 71-Lu-172
 Cross Section -100.0 To 1324. %



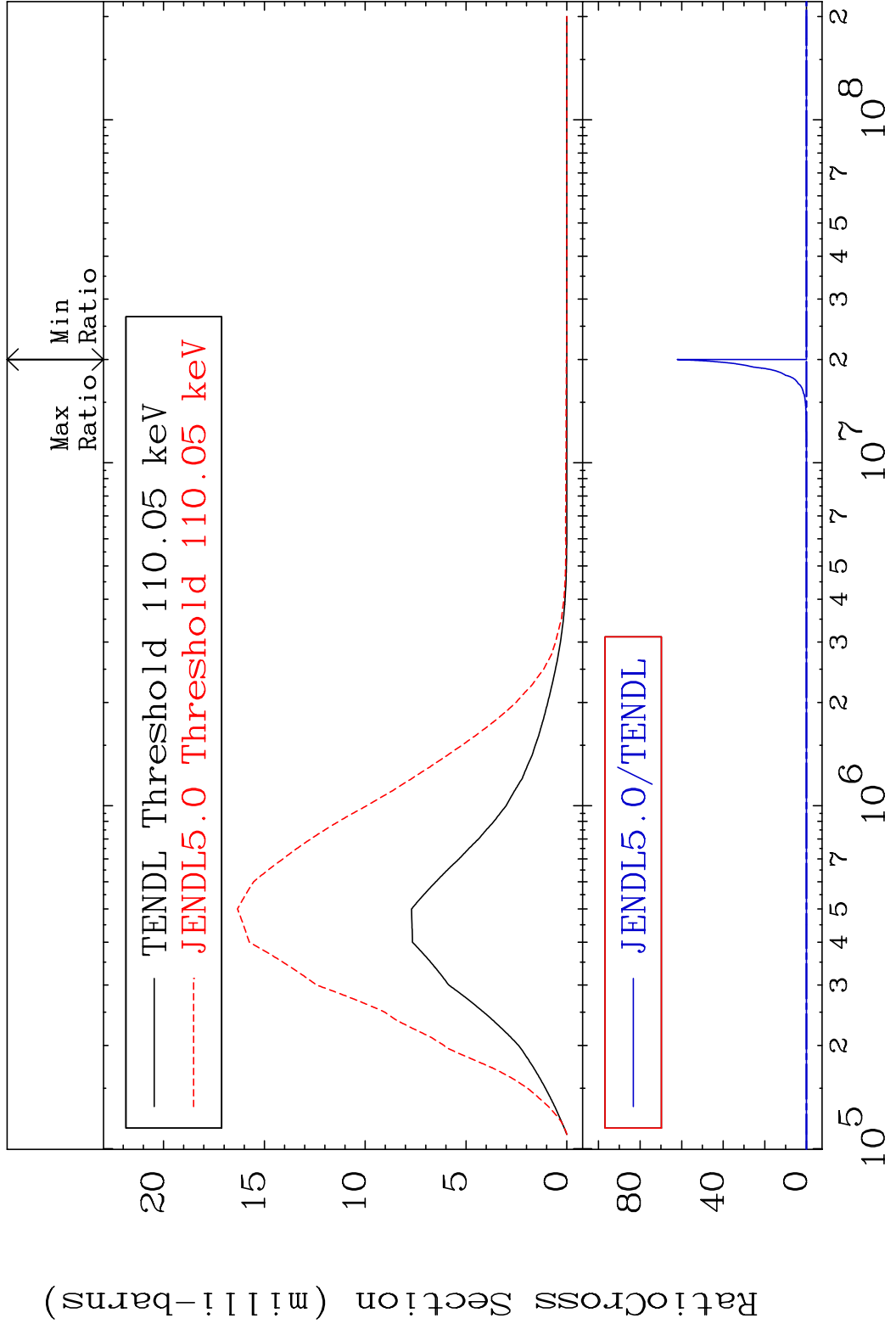
15 Incident Energy (eV) 71-Lu-172

MAT 71116 MT= 54 (n,n') Level 71-Lu-172
 Cross Section -100.0 To 9999. %



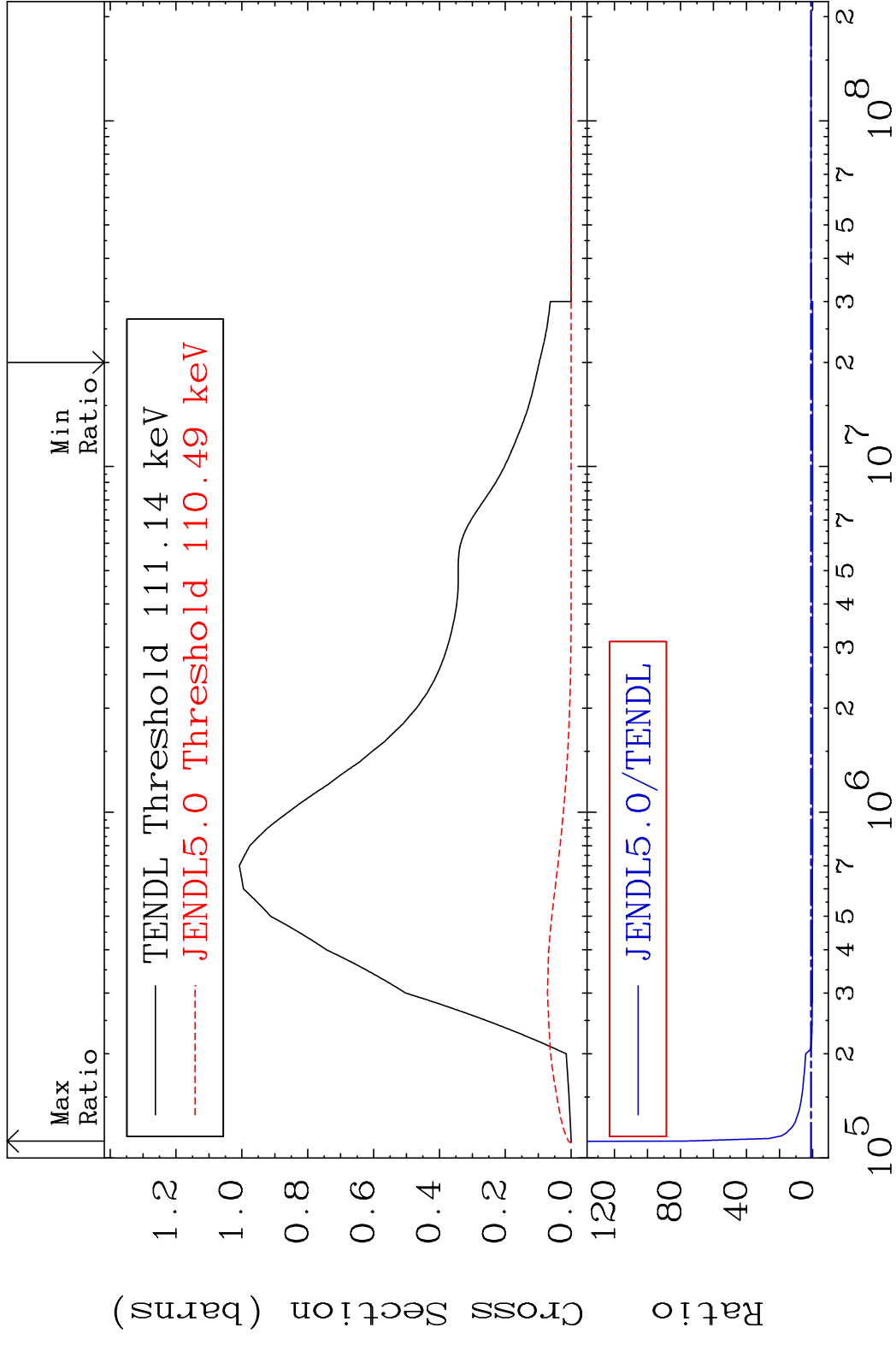
16 Incident Energy (eV) 71-Lu-172

MAT 7116 MT= 55 (n,n') Level 71-Lu-172
 Cross Section -100.0 To 9999. %

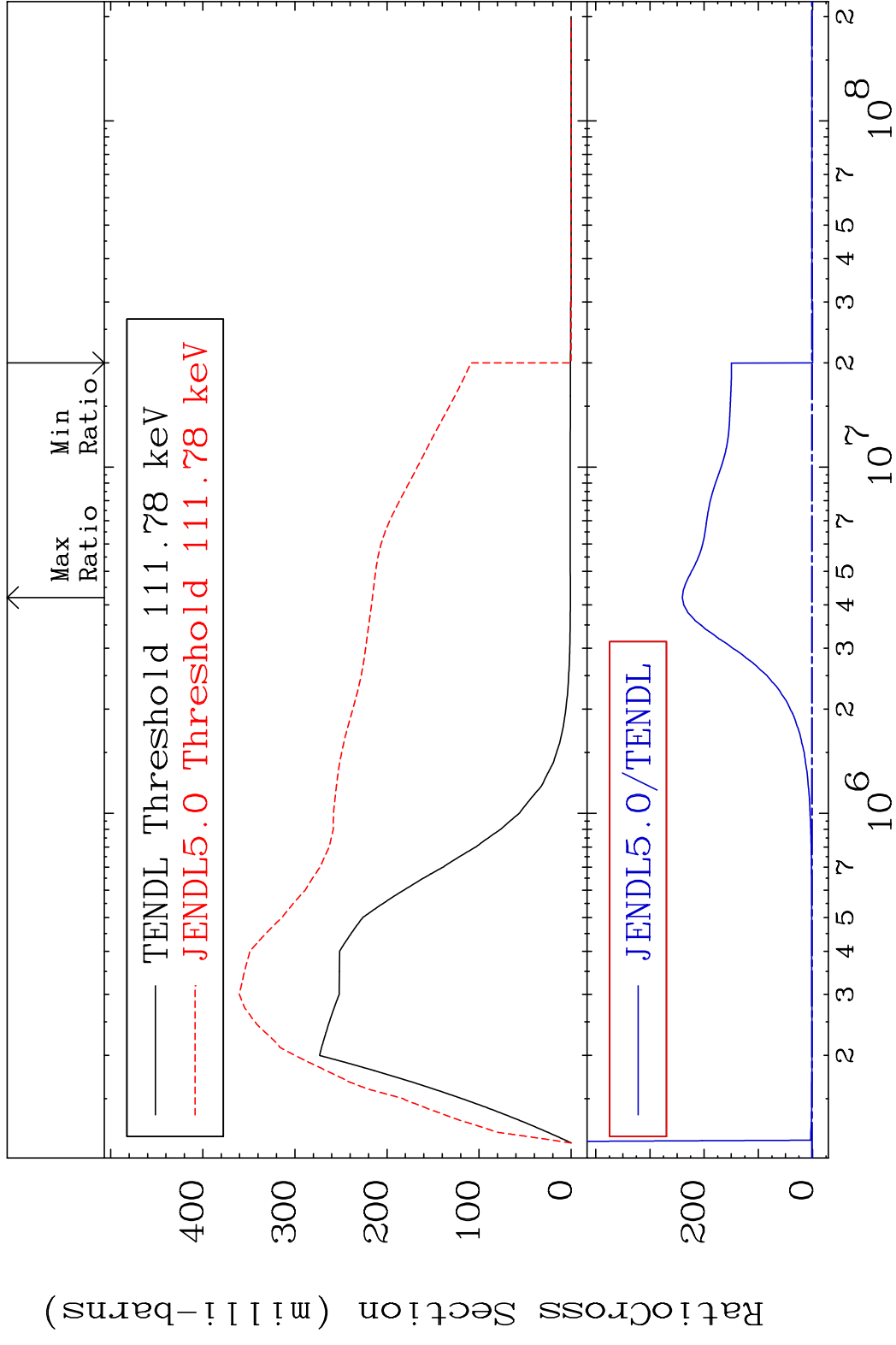


17 Incident Energy (eV) 71-Lu-172

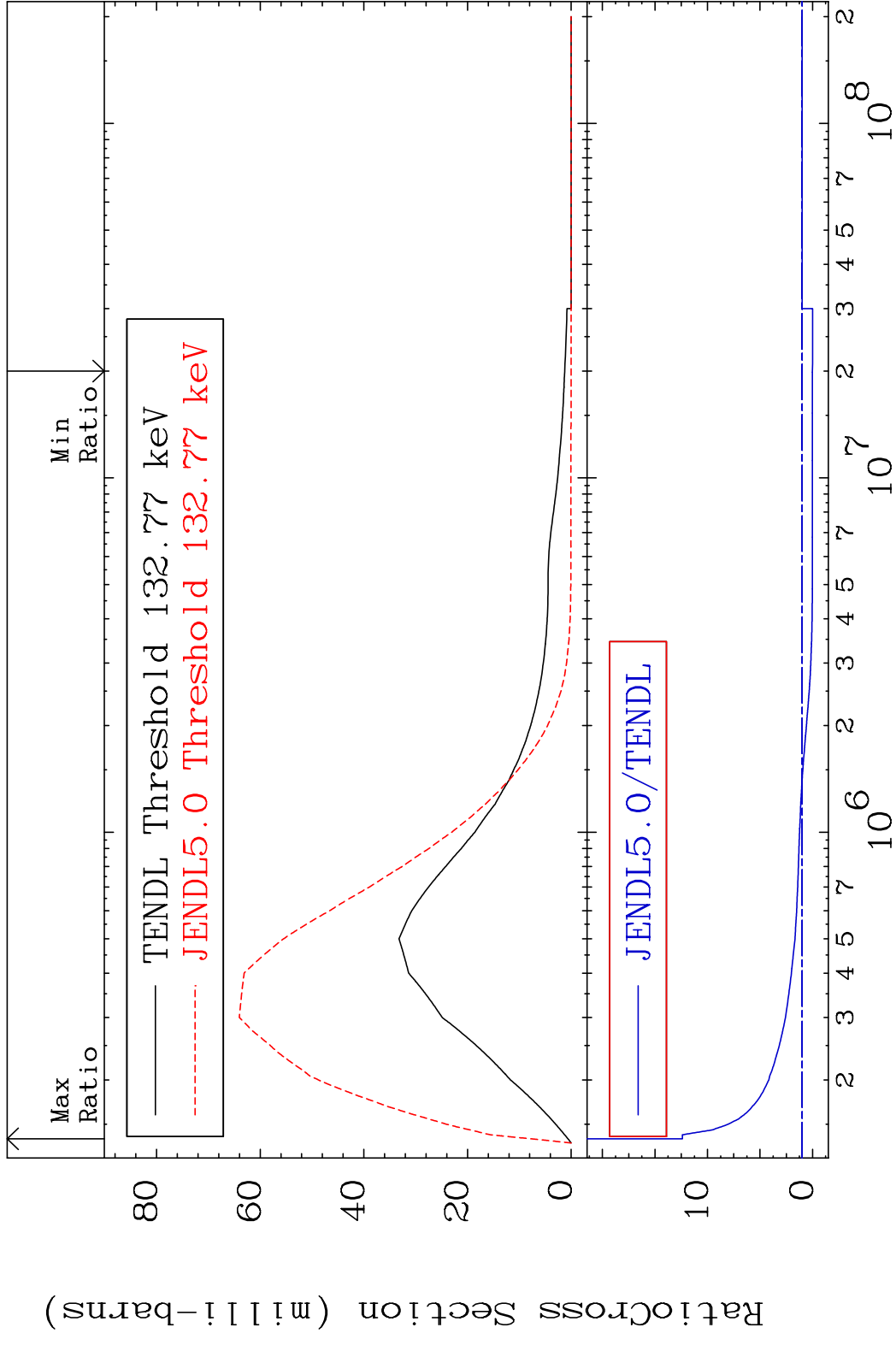
MAT 71116 MT= 56 (n,n') Level 71-Lu-172
 Cross Section -100.0 To 7786. %



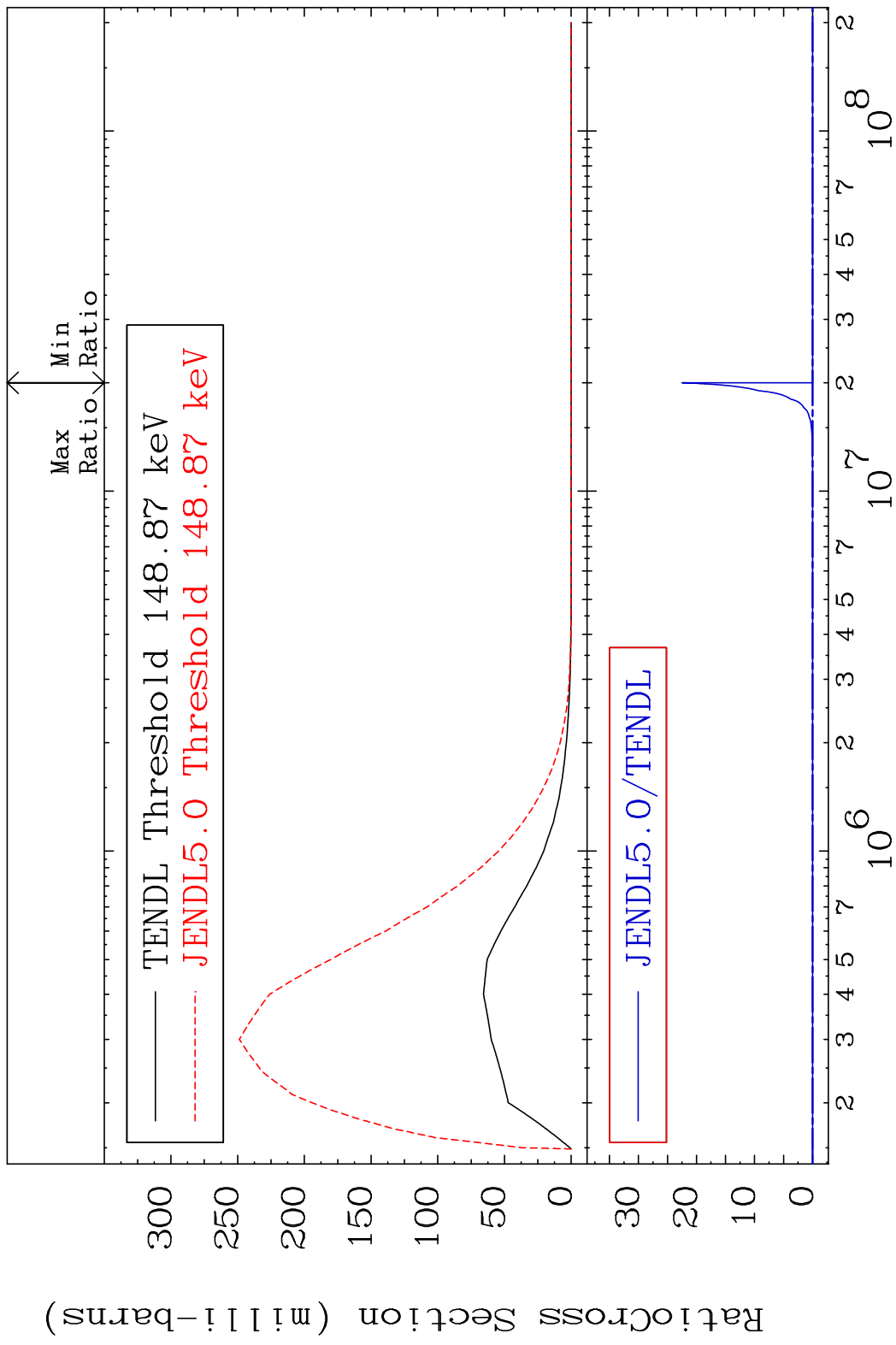
MAT 7116 MT= 57 (n, n') Level 71-Lu-172
 Cross Section -100.0 To 9999. %



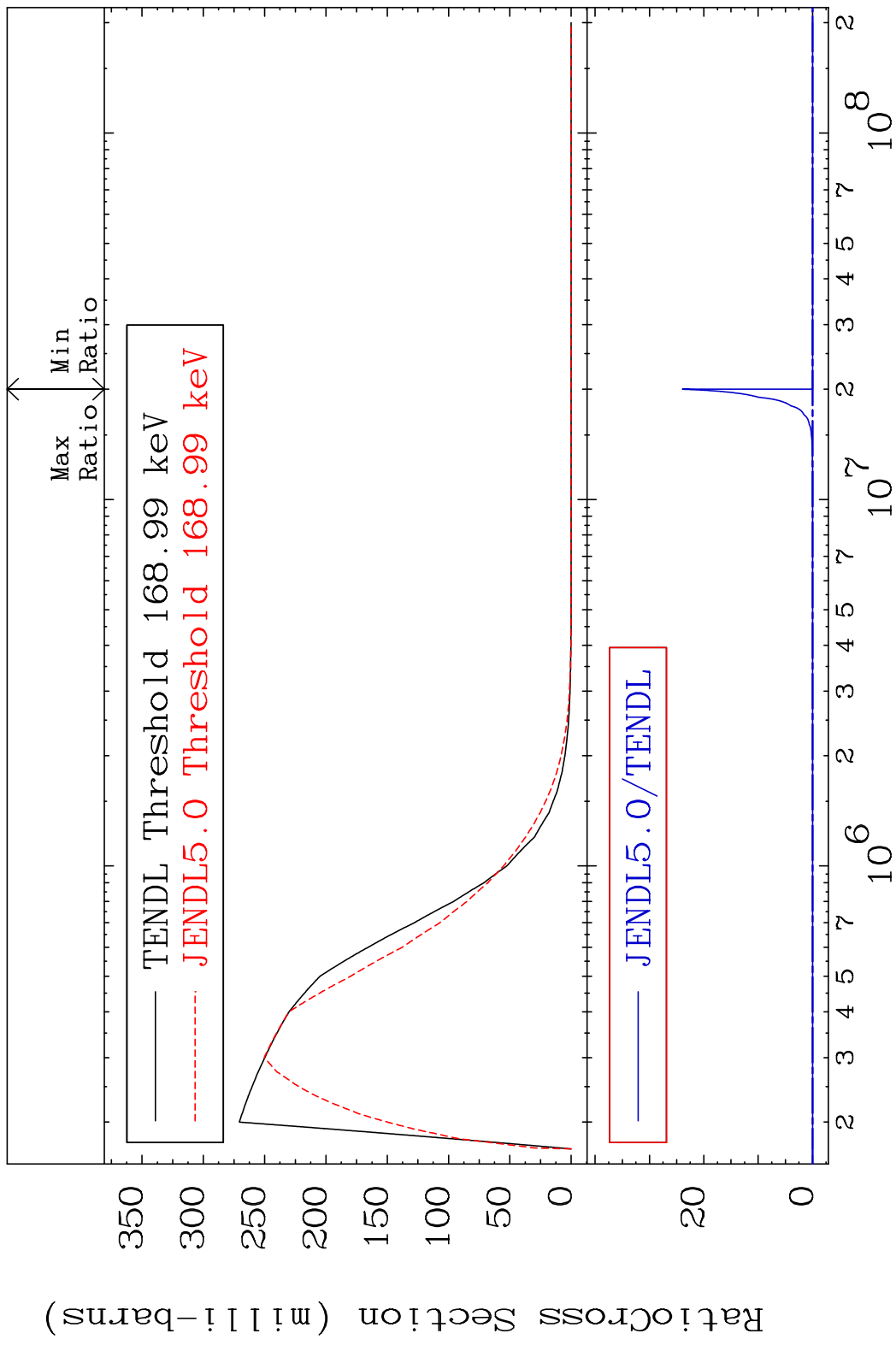
MAT 7116 MT= 58 (n,n') Level 71-Lu-172
 Cross Section -100.0 To 1139. %



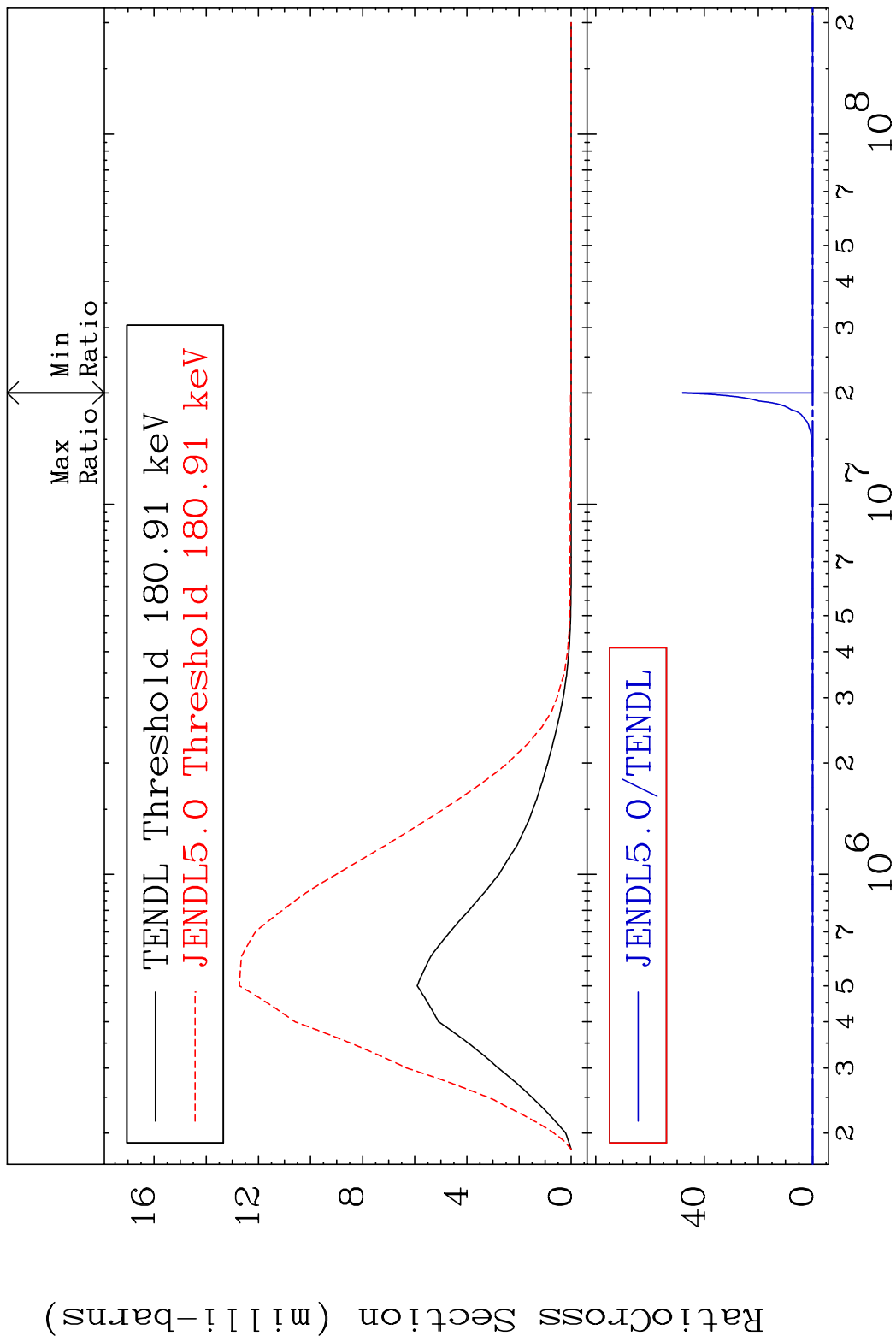
MAT 7116 MT= 59 (n, n') Level 71-Lu-172
 Cross Section -100.0 To 9999. %



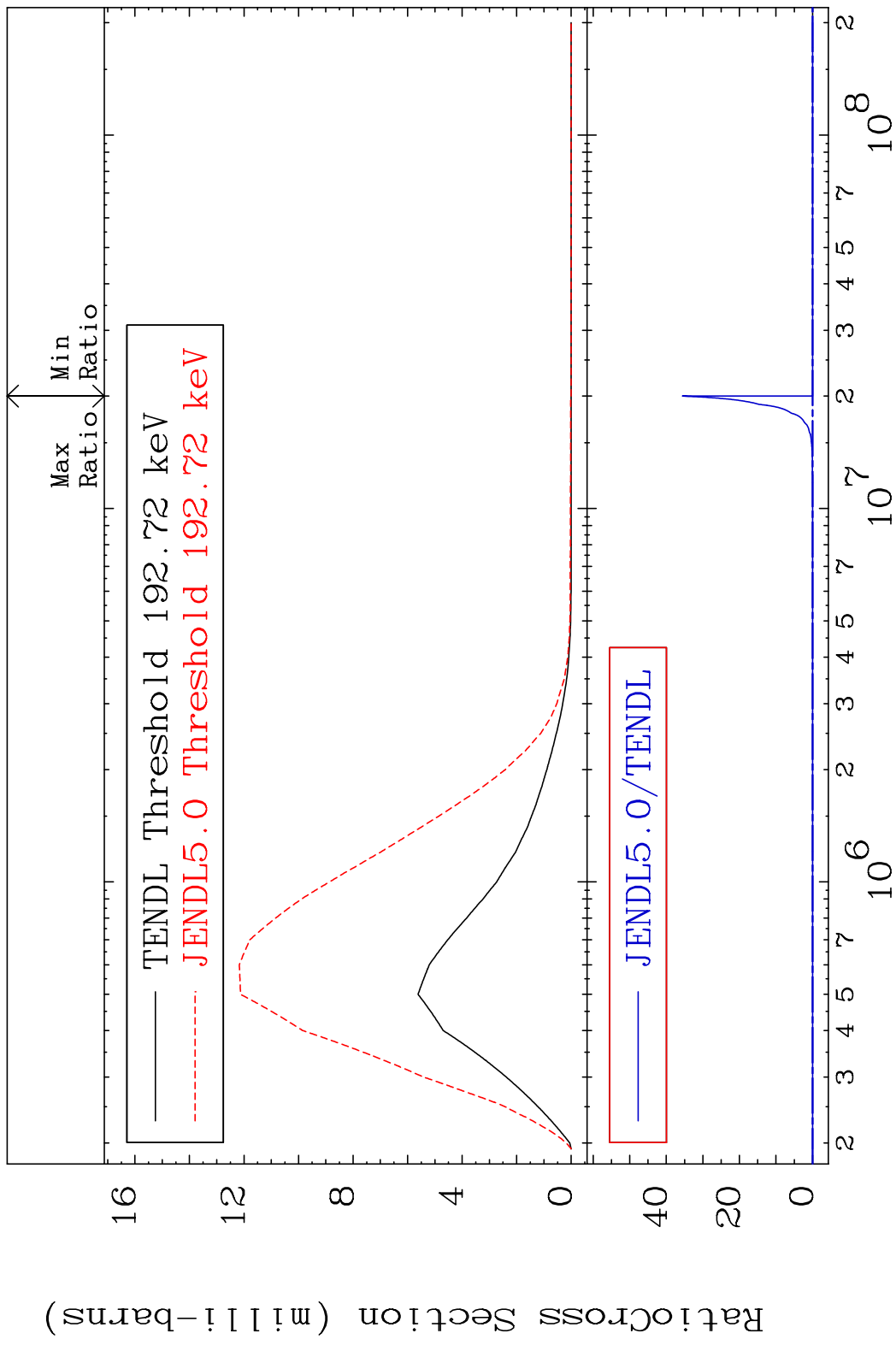
MAT 7116 MT= 60 (n,n') Level 71-Lu-172
 Cross Section -100.0 To 9999. %



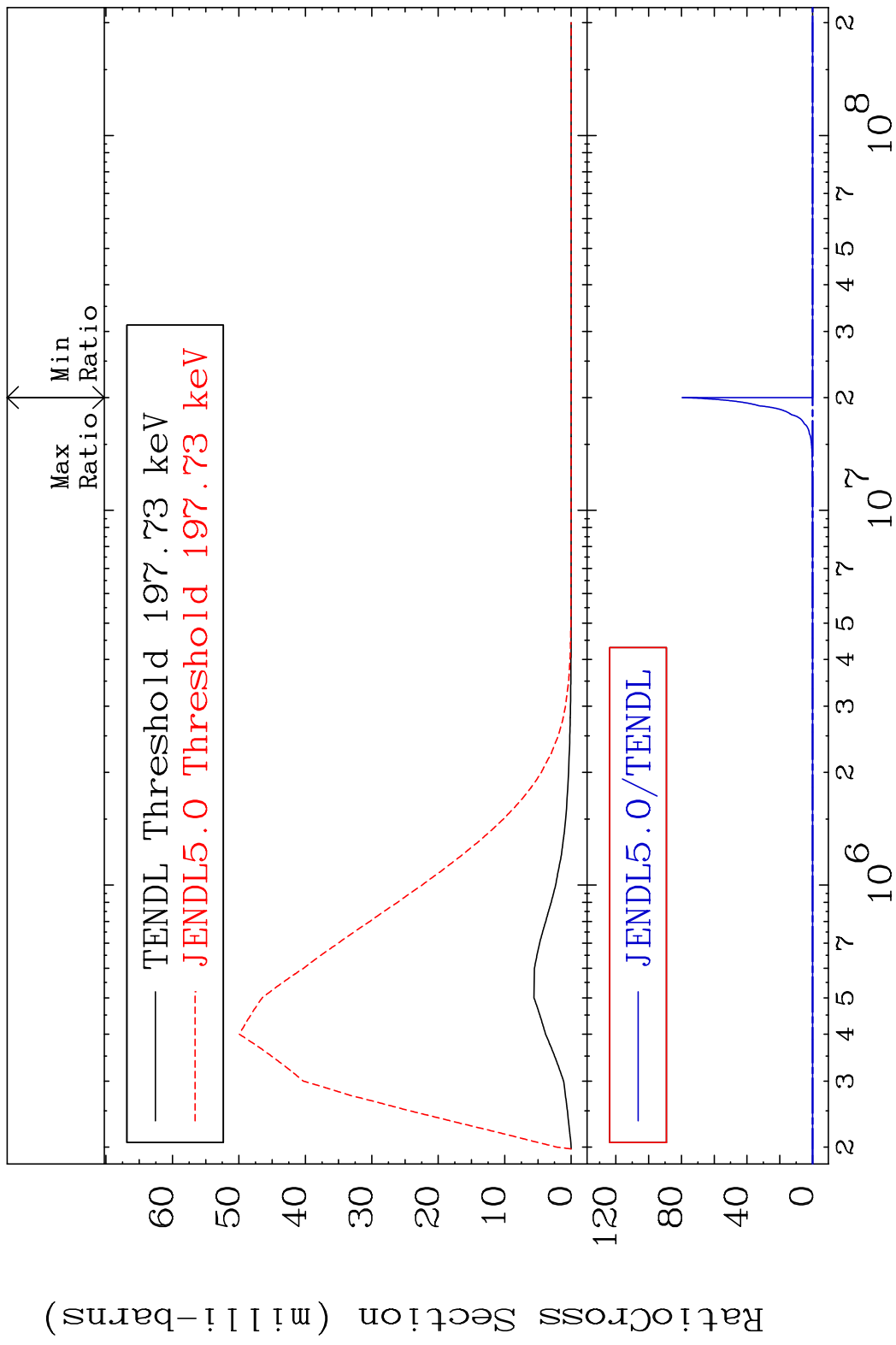
MAT 7116 MT= 61 (n, n') Level 71-Lu-172
 Cross Section -100.0 To 9999. %



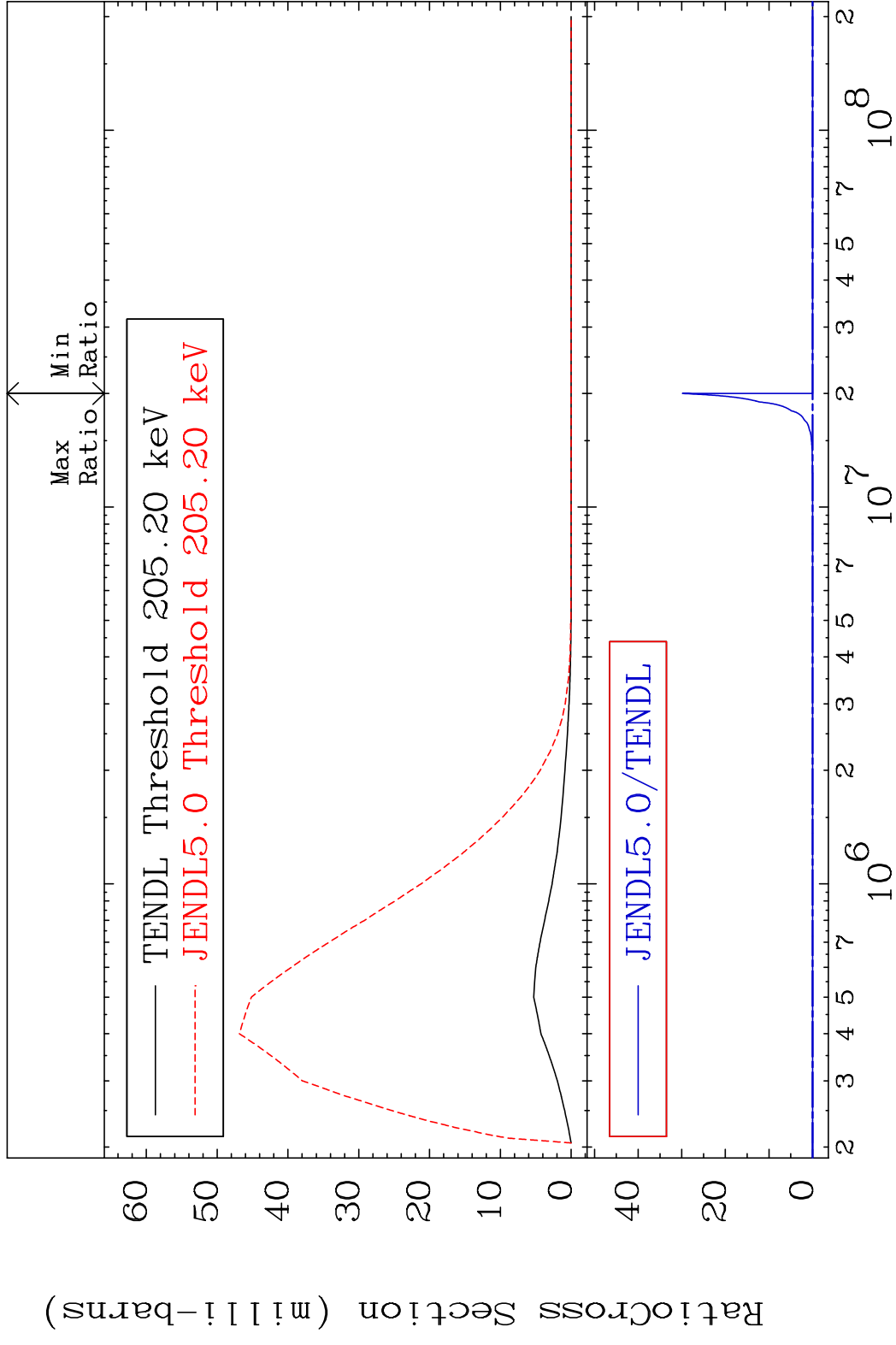
MAT 7116 MT= 62 (n, n') Level 71-Lu-172
 Cross Section -100.0 To 9999. %



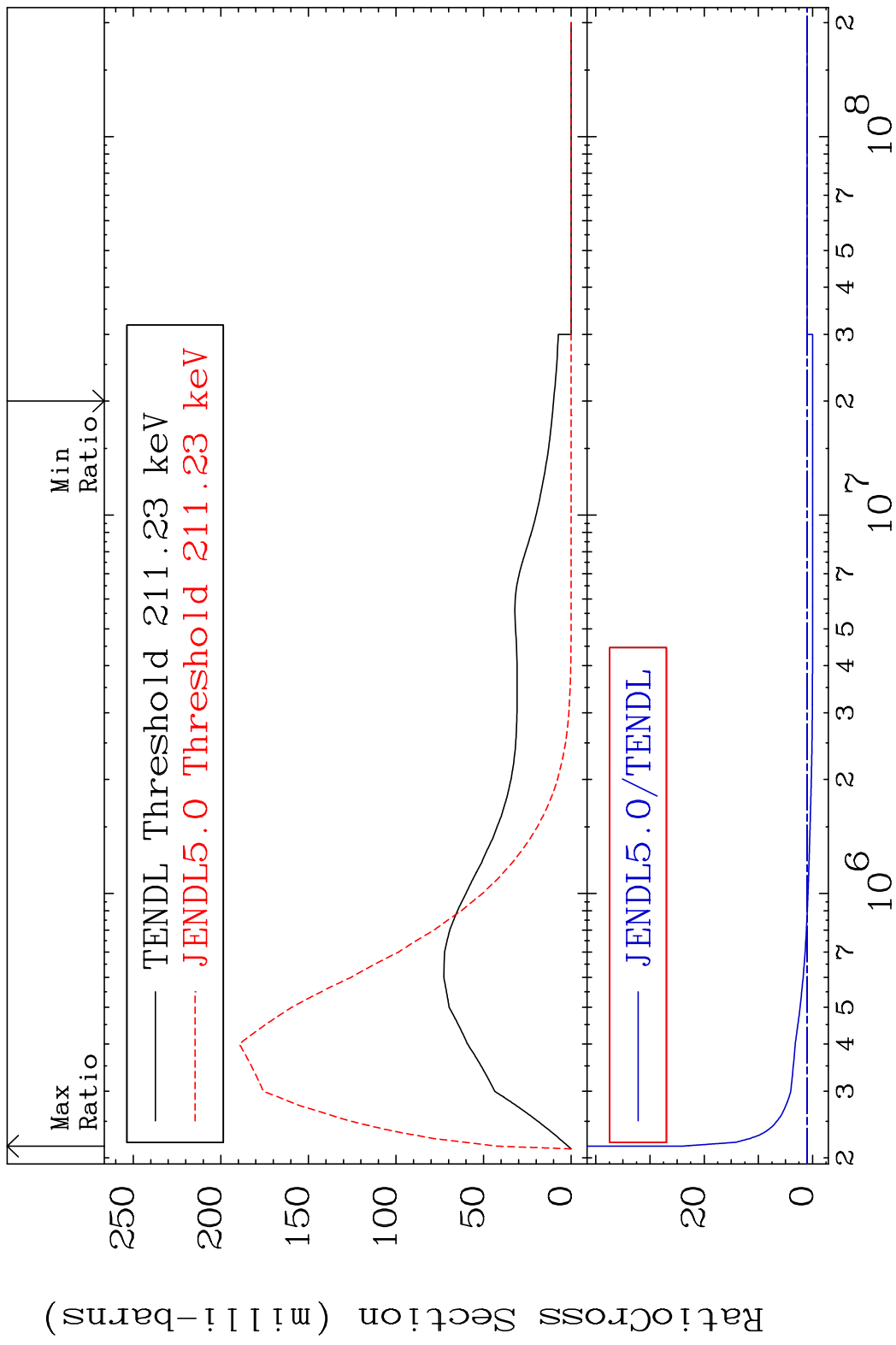
MAT 7116 MT= 63 (n, n') Level 71-Lu-172
 Cross Section -100.0 To 9999. %



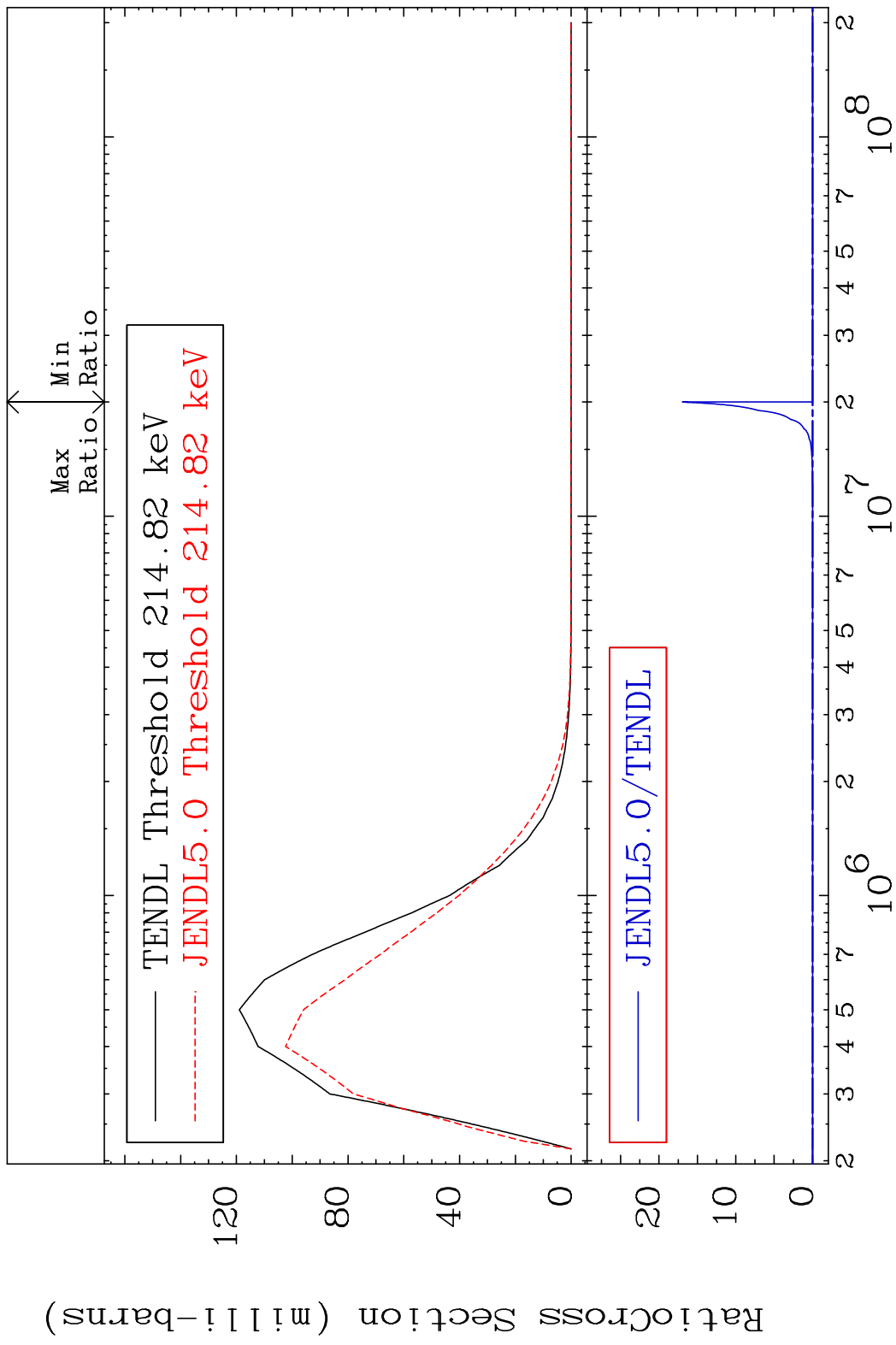
MAT 7116 MT= 64 (n, n') Level 71-Lu-172
 Cross Section -100.0 To 9999. %



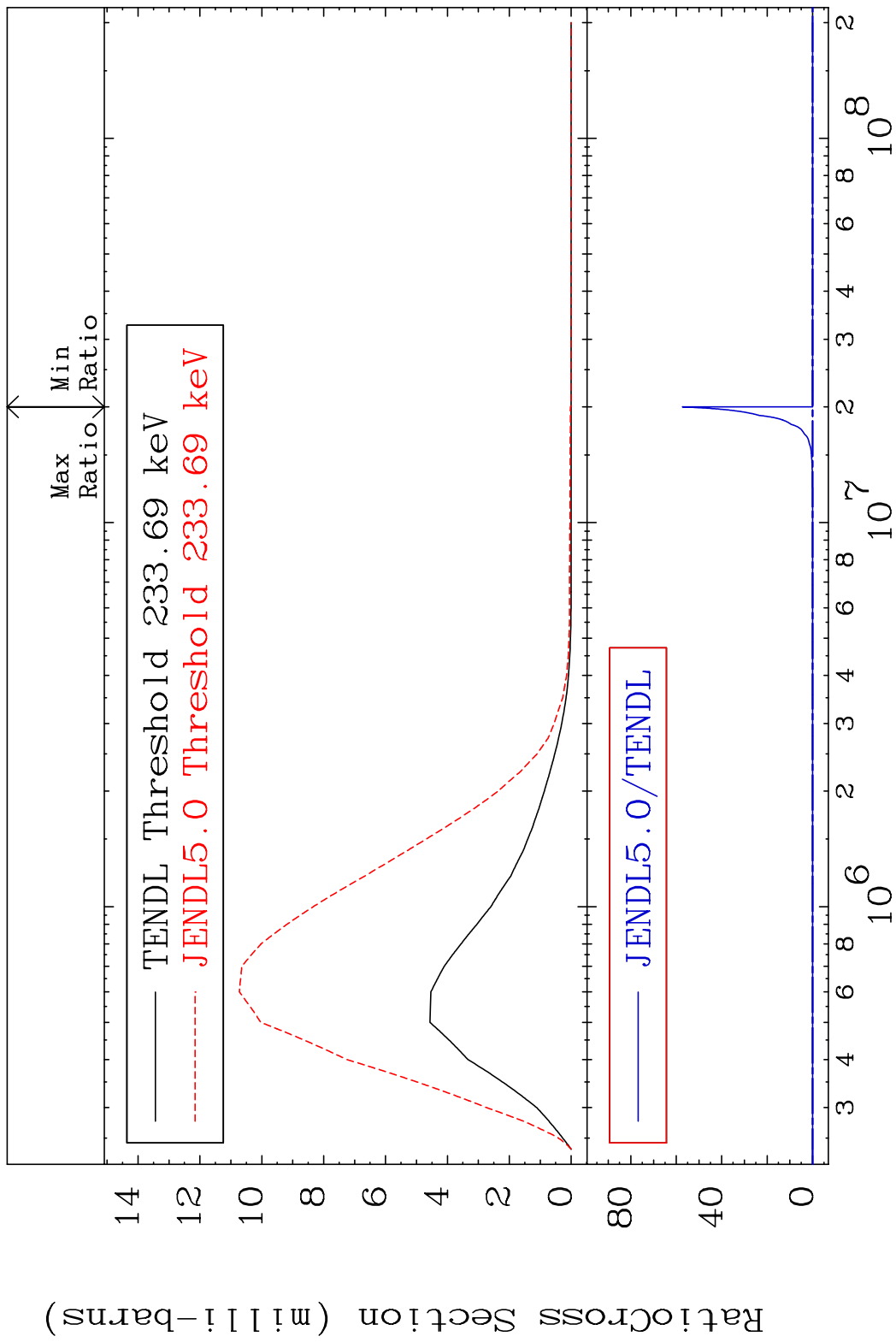
MAT 7116 MT= 65 (n,n') Level 71-Lu-172
 Cross Section -100.0 To 2303. %



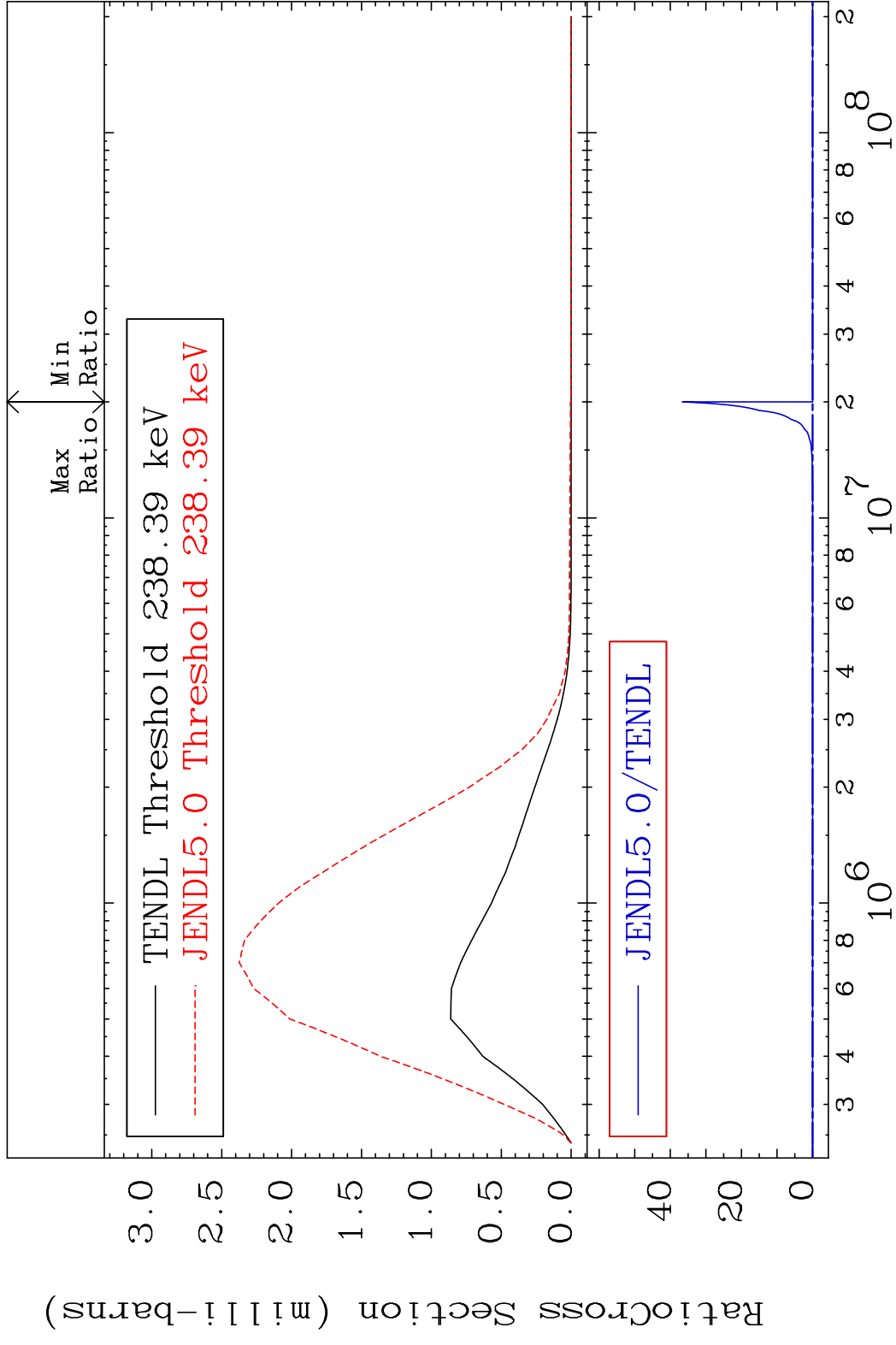
MAT 7116 MT= 66 (n,n') Level 71-Lu-172
 Cross Section -100.0 To 9999. %



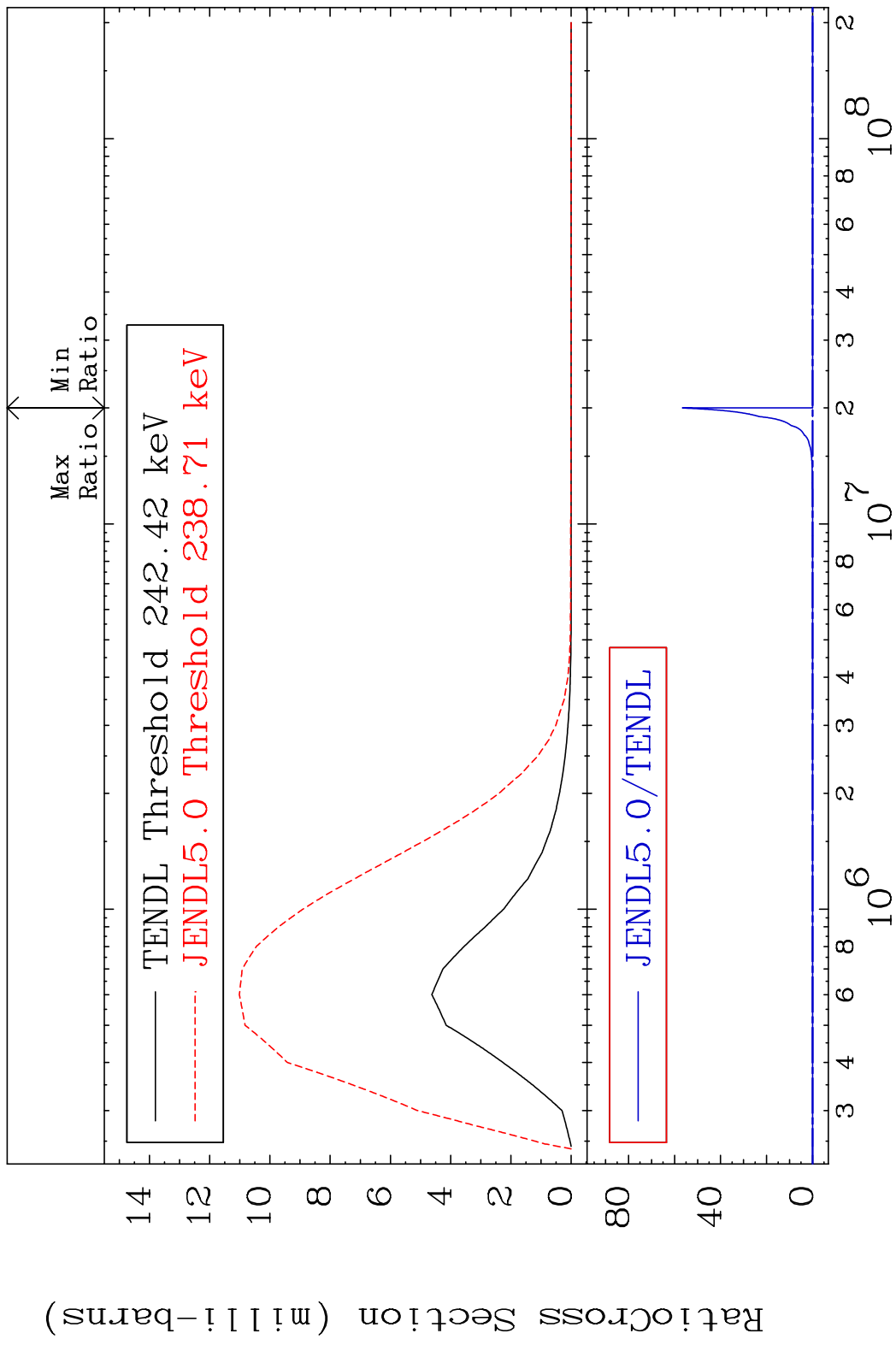
MAT 7116 MT= 67 (n, n') Level 71-Lu-172
 Cross Section -100.0 To 9999. %



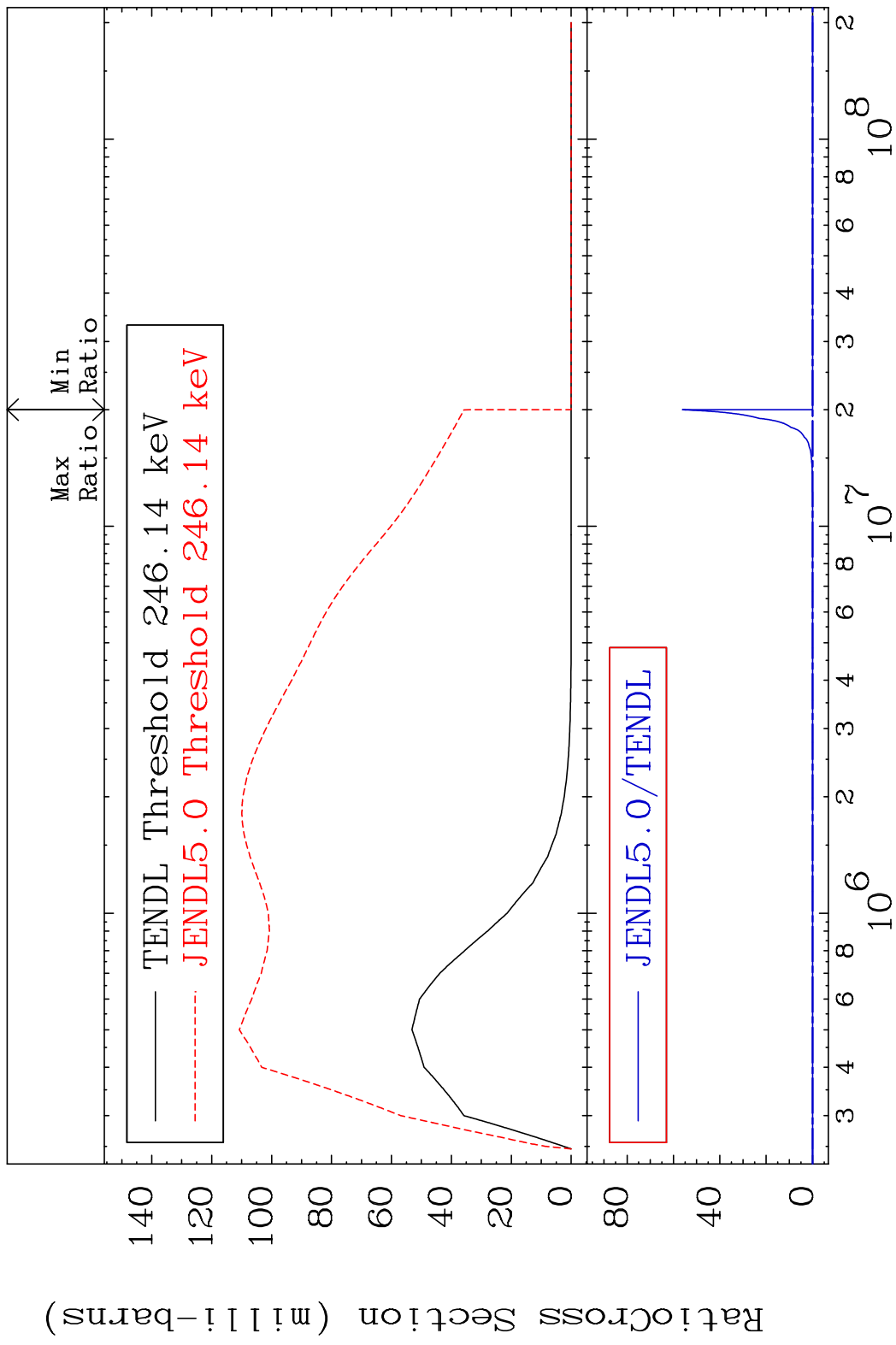
MAT 7116 MT= 68 (n, n') Level 71-Lu-172
 Cross Section -100.0 To 9999. %



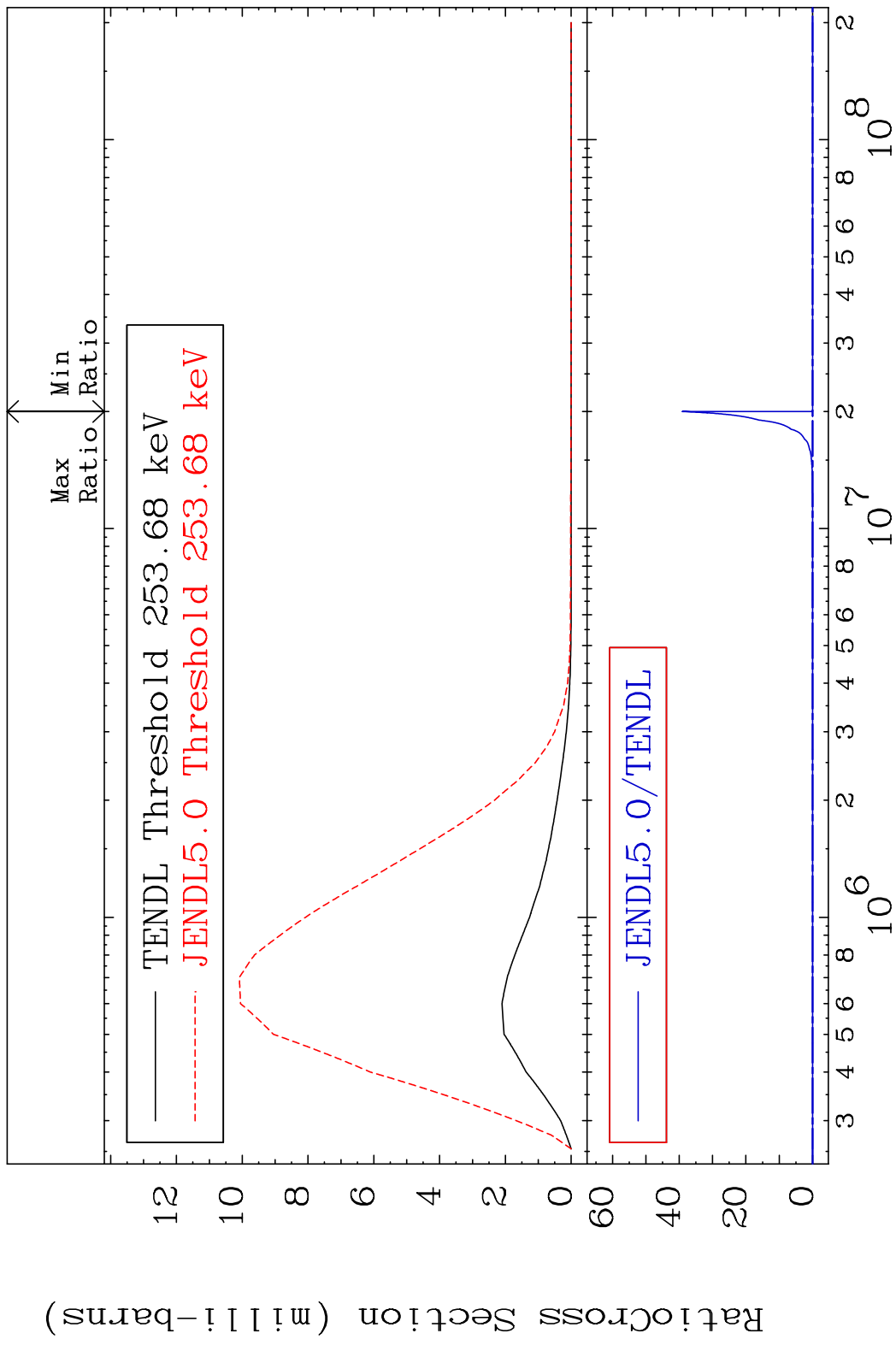
MAT 7116 MT= 69 (n, n') Level 71-Lu-172
 Cross Section -100.0 To 9999. %



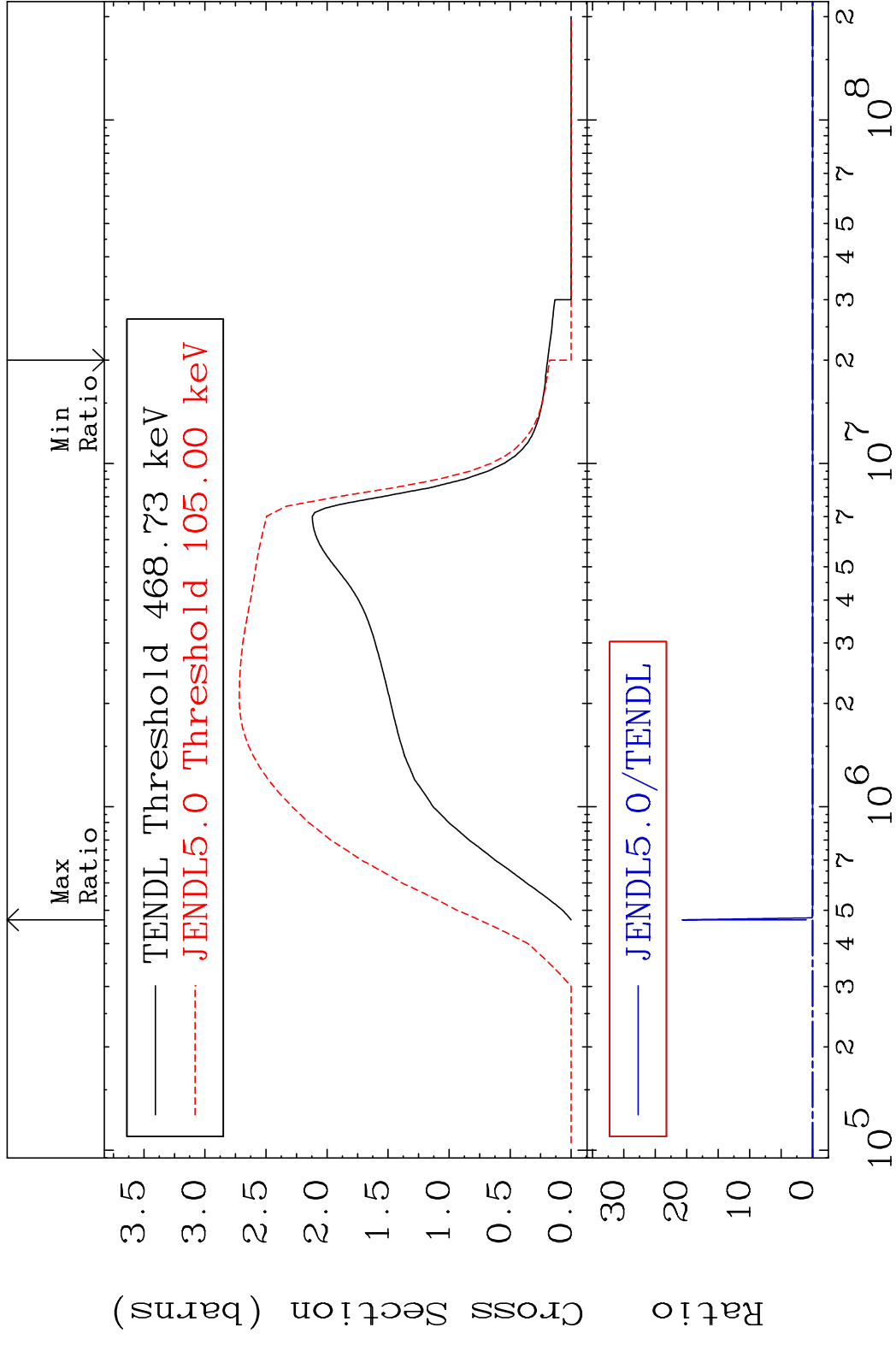
MAT 7116 MT= 70 (n, n') Level 71-Lu-172
 Cross Section -100.0 To 9999. %



MAT 7116 MT= 71 (n,n') Level 71-Lu-172
 Cross Section -100.0 To 9999. %



MAT 7116 (n,n') Continuum 71-Lu-172
 Cross Section -100.0 To 9999. %

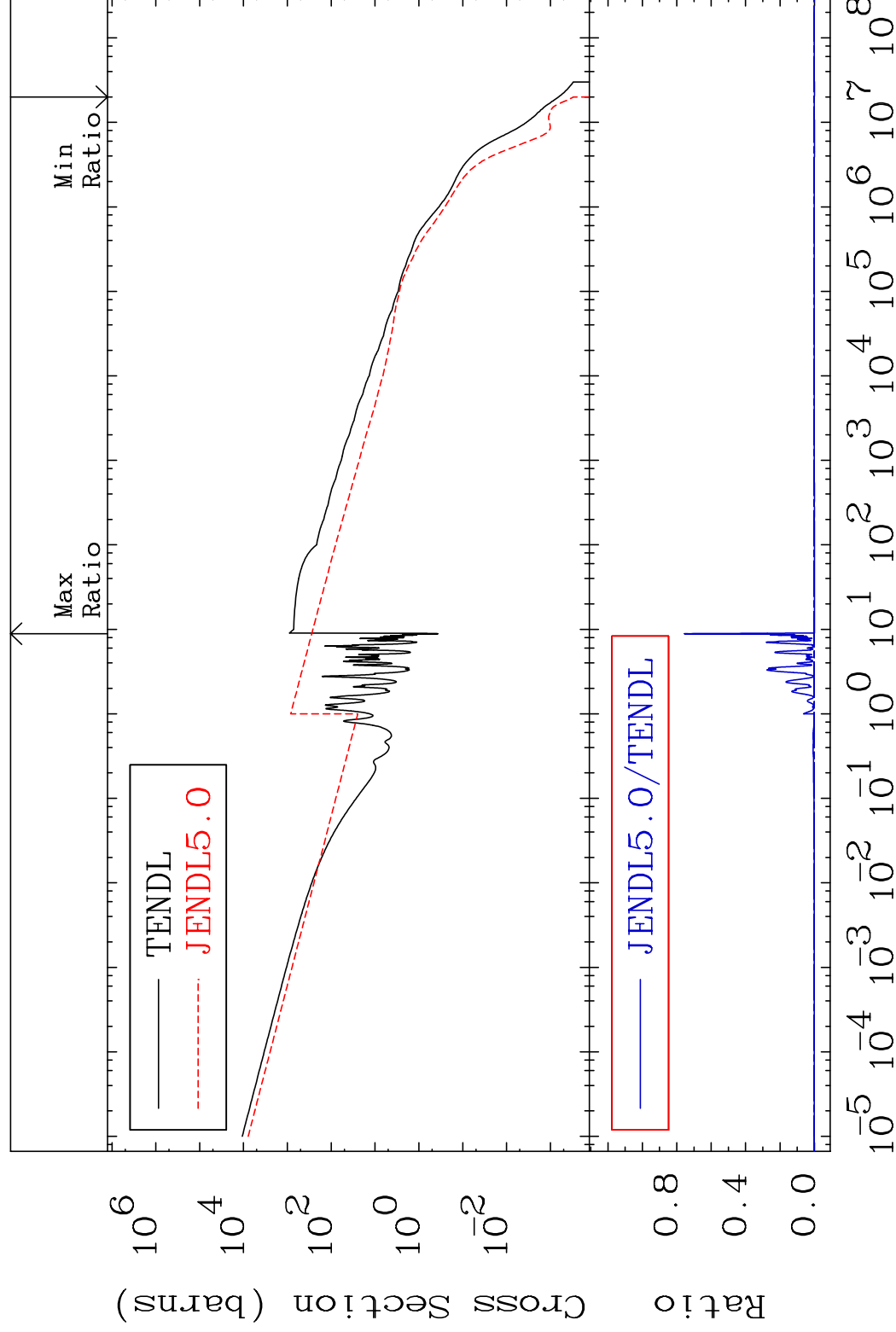


MAT 7116

(n, γ)

71-Lu-172

Cross Section -100.0 To 9999. %



35

Incident Energy (eV)

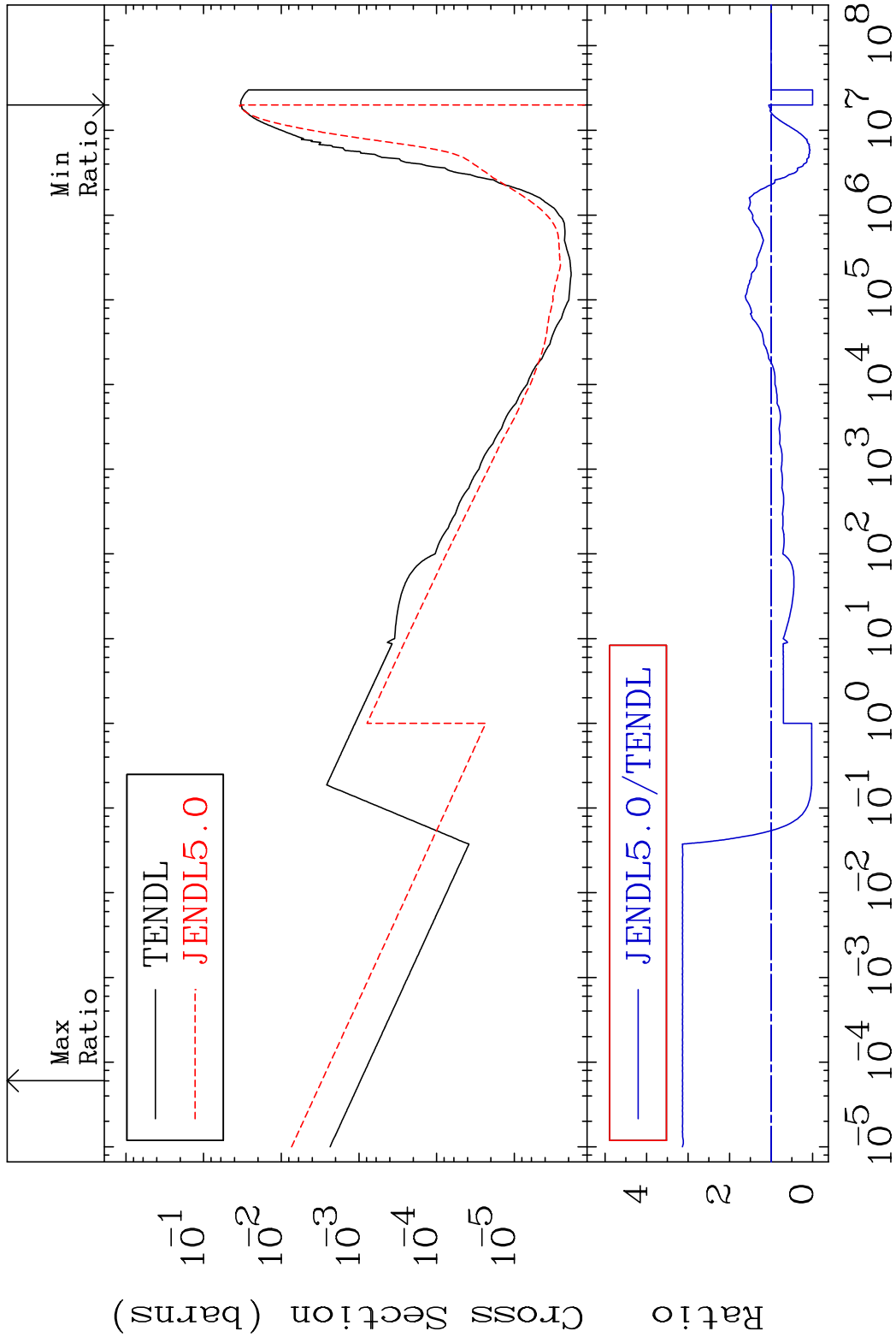
71-Lu-172

MAT 7116

(n, p)

71-Lu-172

Cross Section -100.0 To 213.9 %



36

Incident Energy (eV)

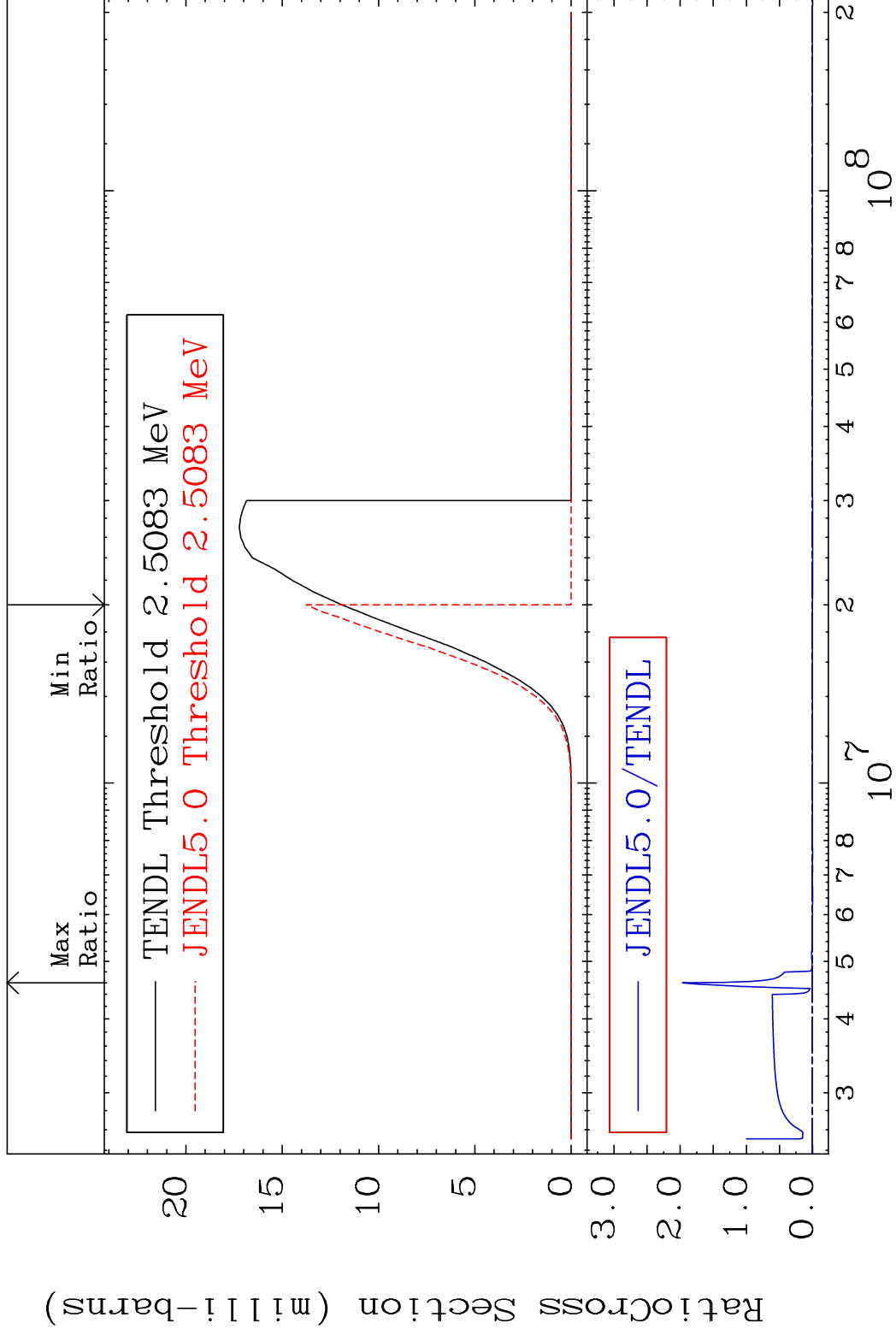
71-Lu-172

MAT 7116

(n, d)

71-Lu-172

Cross Section -100.0 To 9999. %



37

Incident Energy (eV)

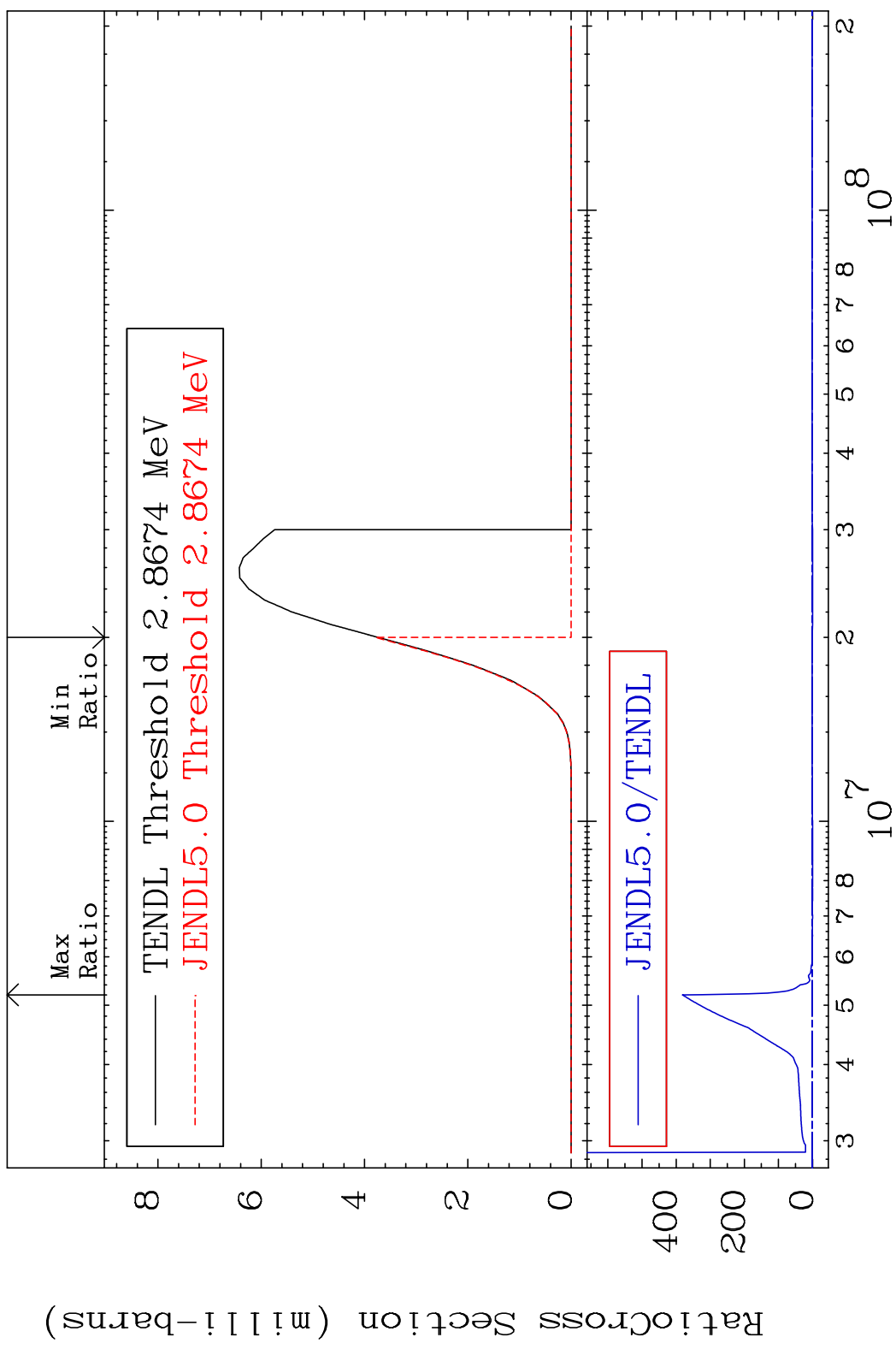
71-Lu-172

MAT 7116

(n, t)

71-Lu-172

Cross Section -100.0 To 9999. %

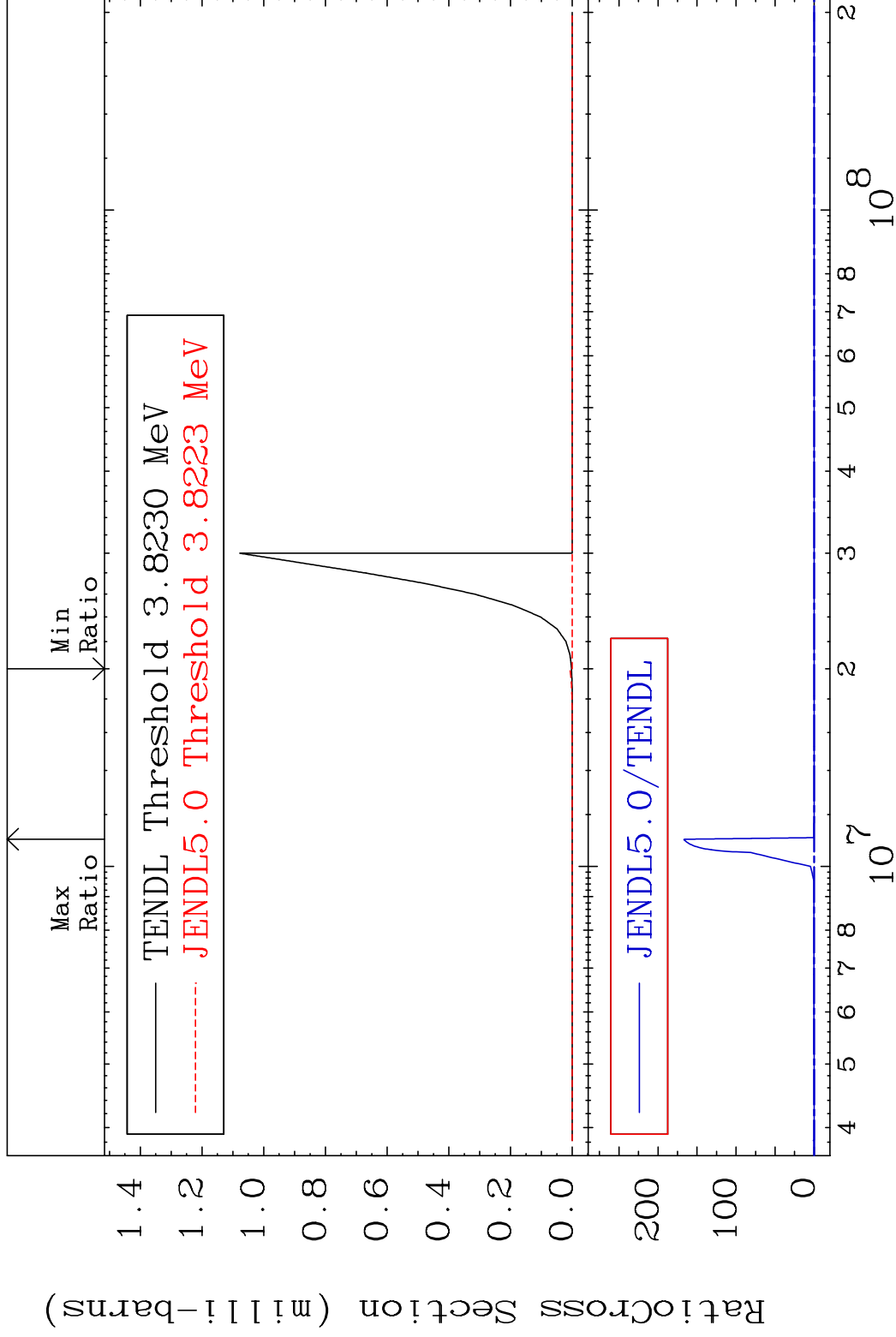


MAT 7116

(n, He-3)

71-Lu-172

Cross Section -100.0 To 9999. %



39

Incident Energy (eV)

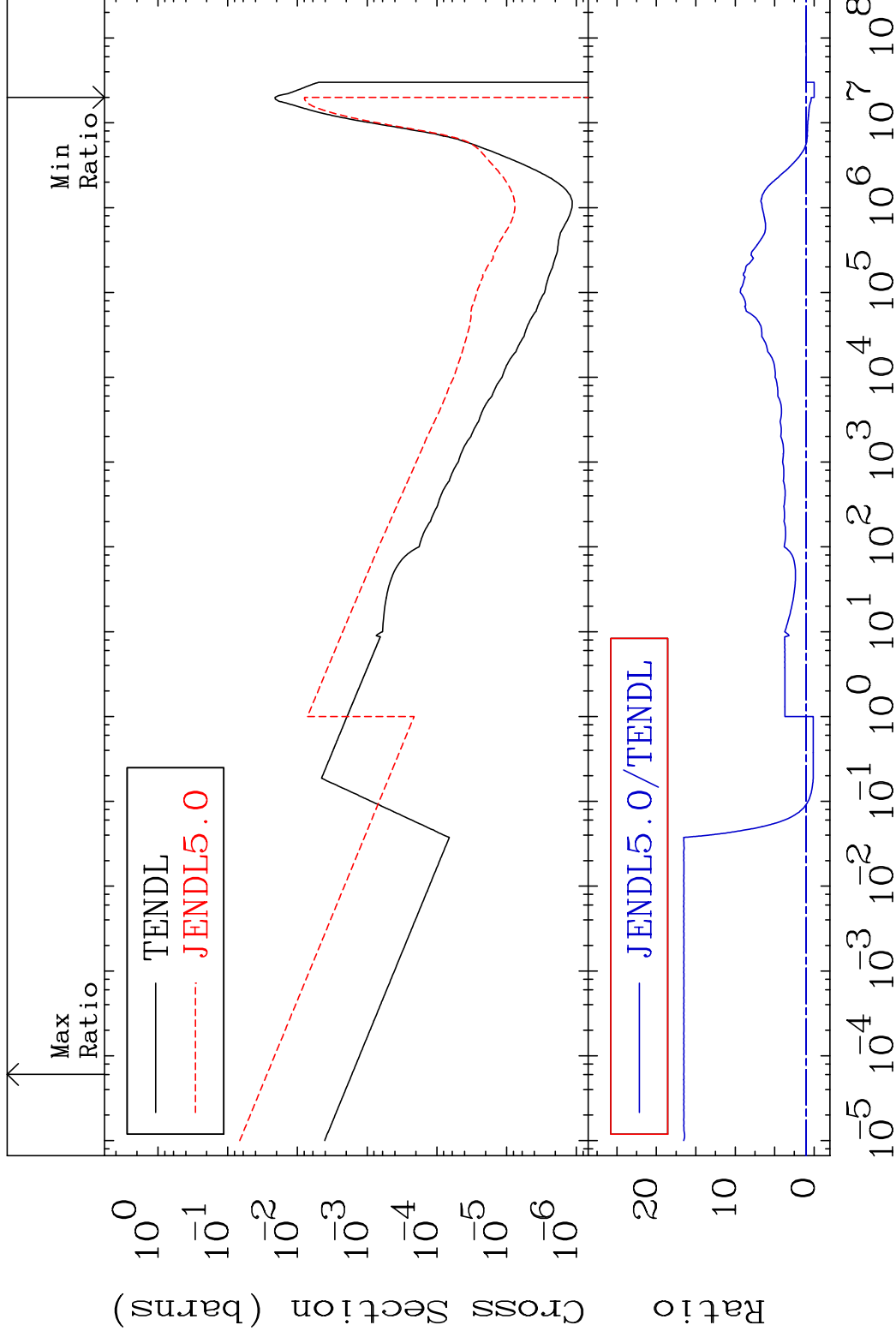
71-Lu-172

MAT 7116

(n, α)

71-Lu-172

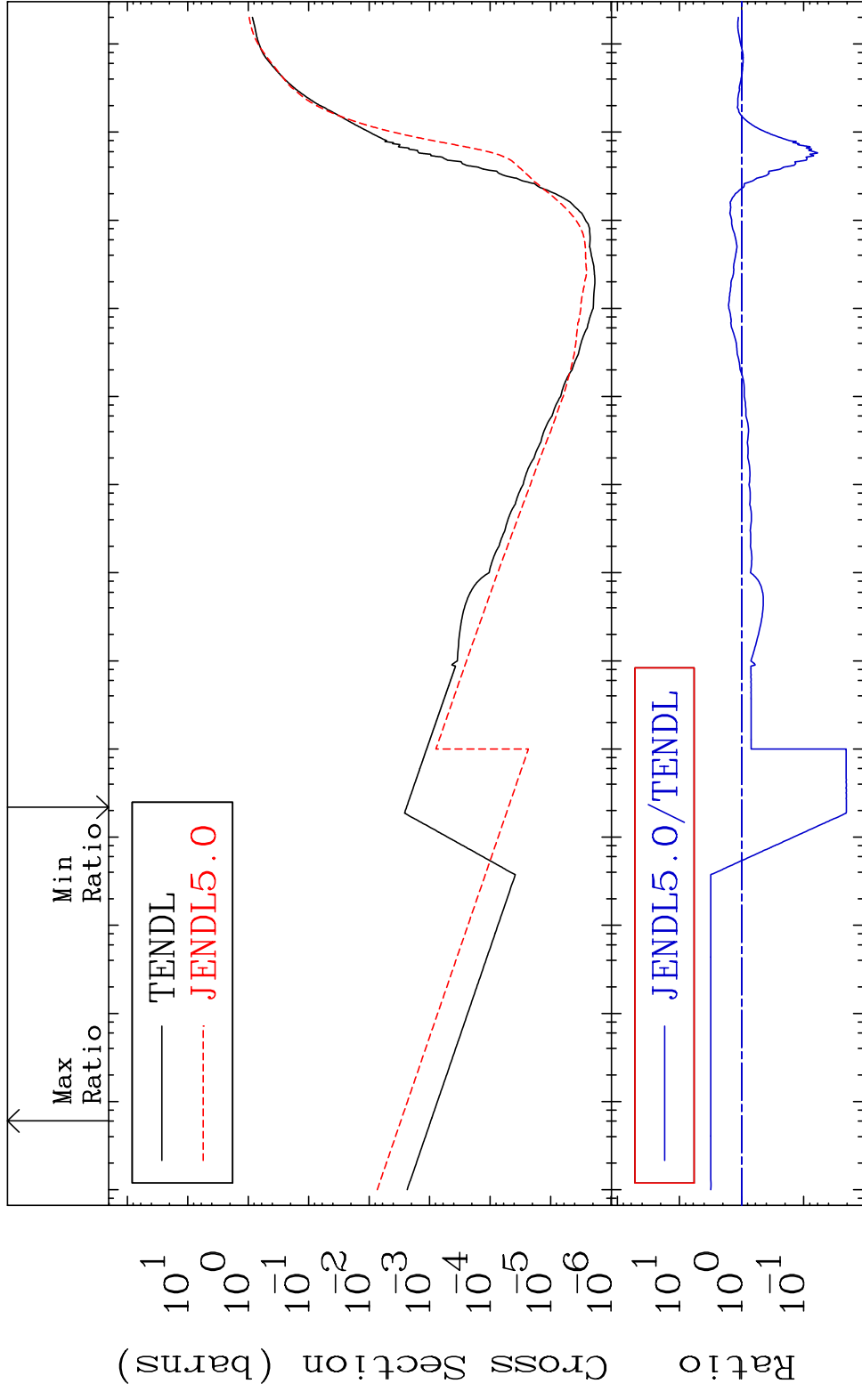
Cross Section -100.0 To 1554. %



MAT 7116

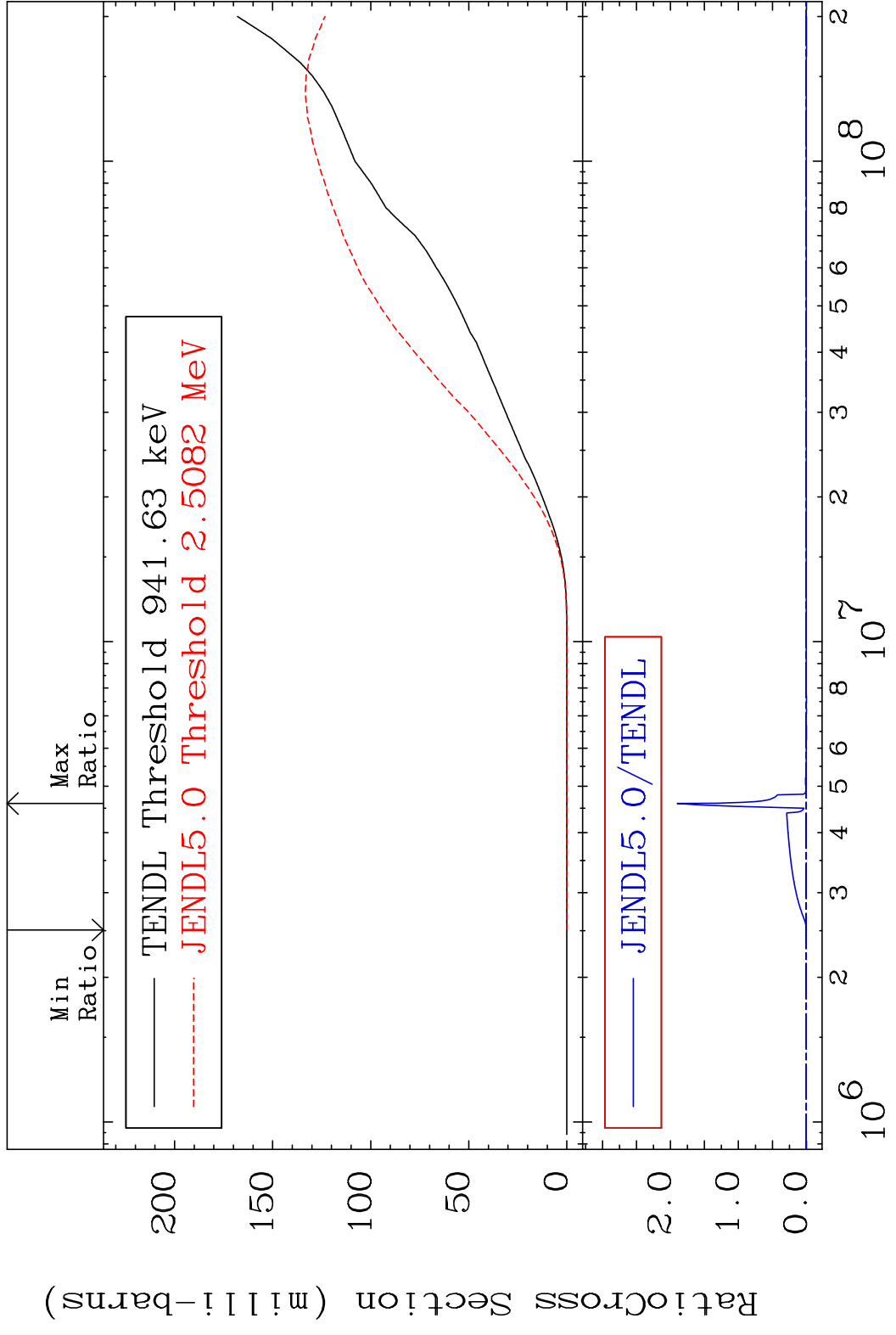
Hydrogen Production
Cross Section -97.94 To 213.9 %

71-Lu-172



MAT 7116

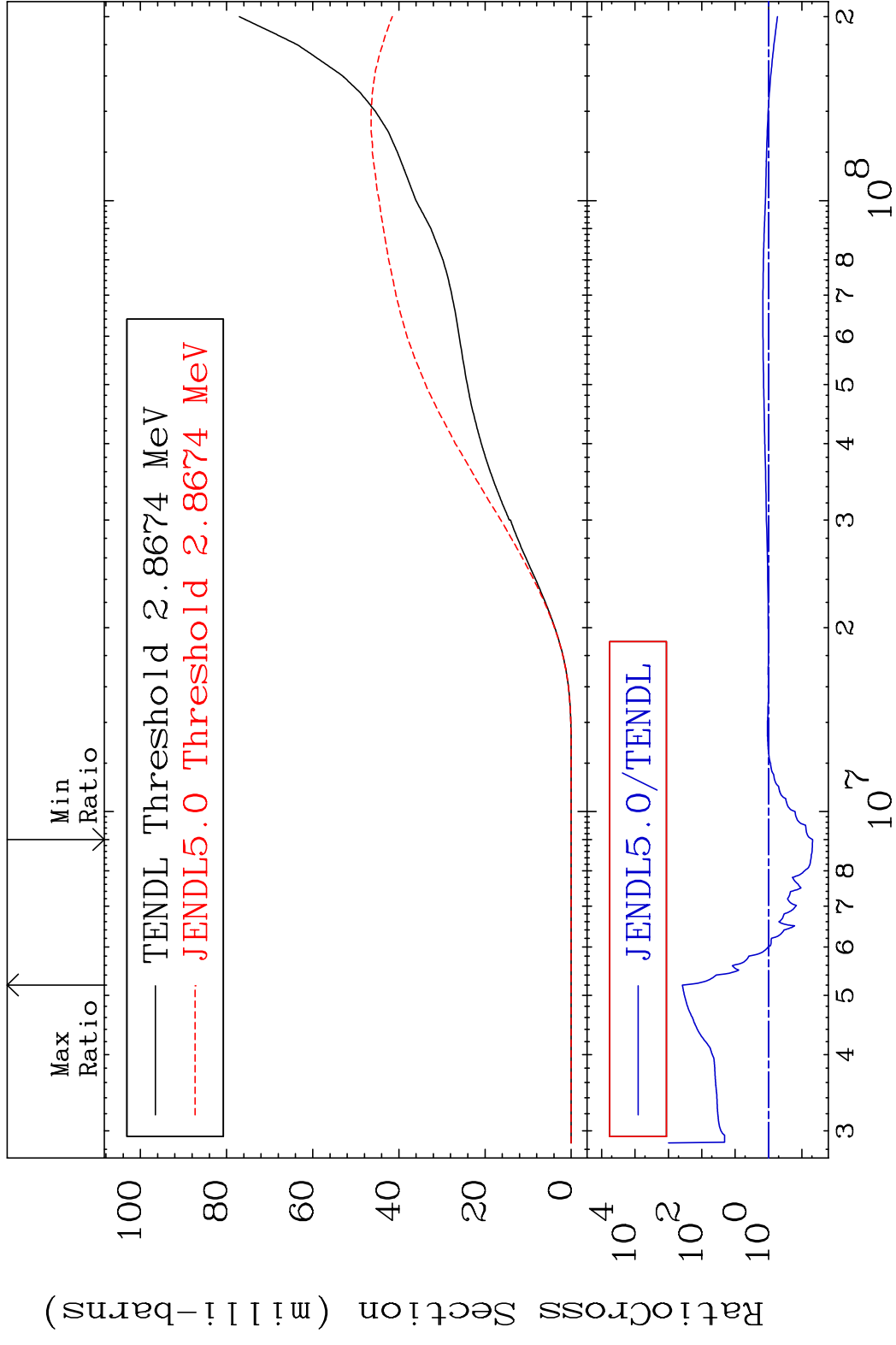
Deuterium Production 71-Lu-172
Cross Section -100.0 To 9999. %



42

Incident Energy (eV)

71-Lu-172

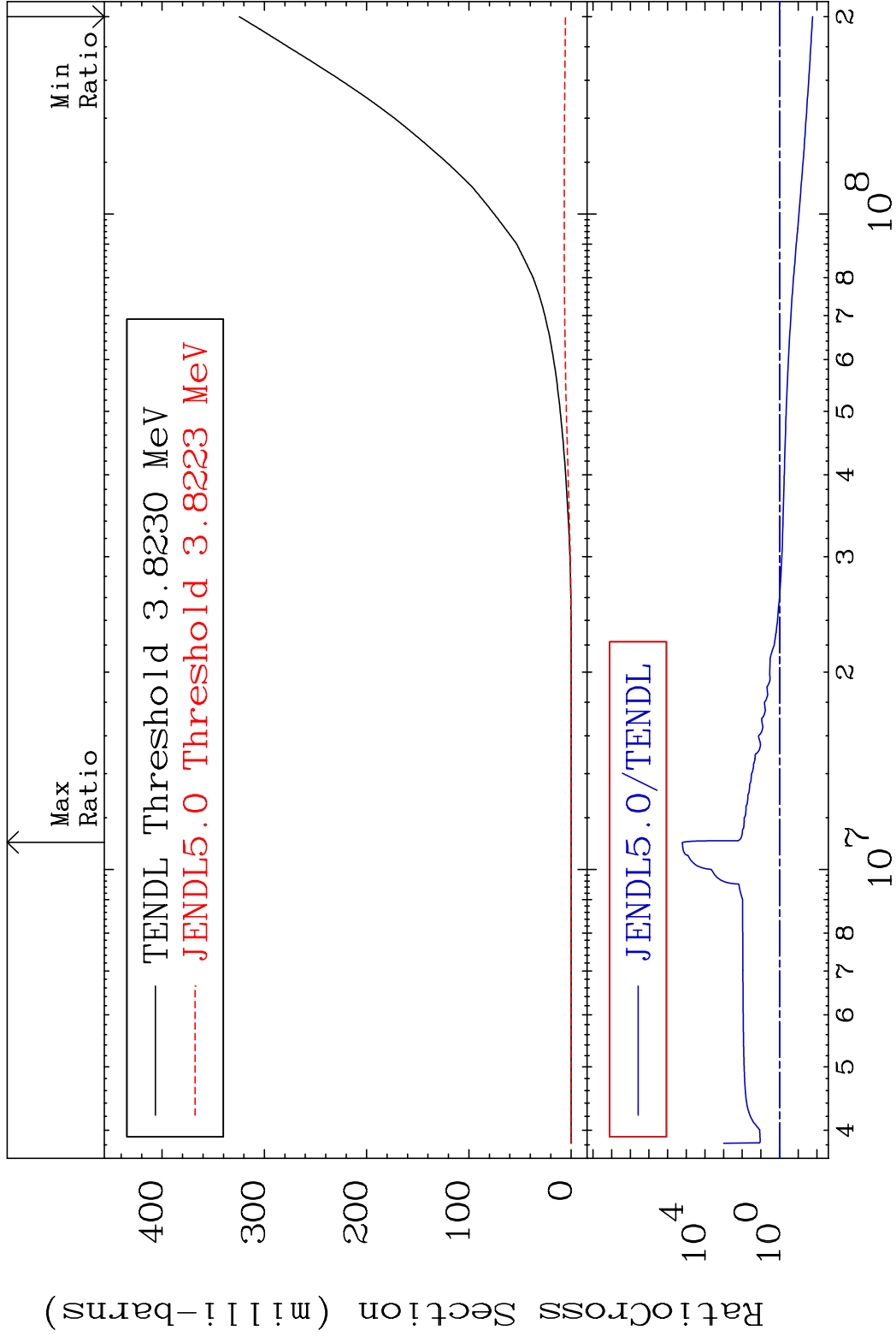


MAT 7116

He-3 Production

71-Lu-172

Cross Section -98.30 To 9999. %



44

Incident Energy (eV)

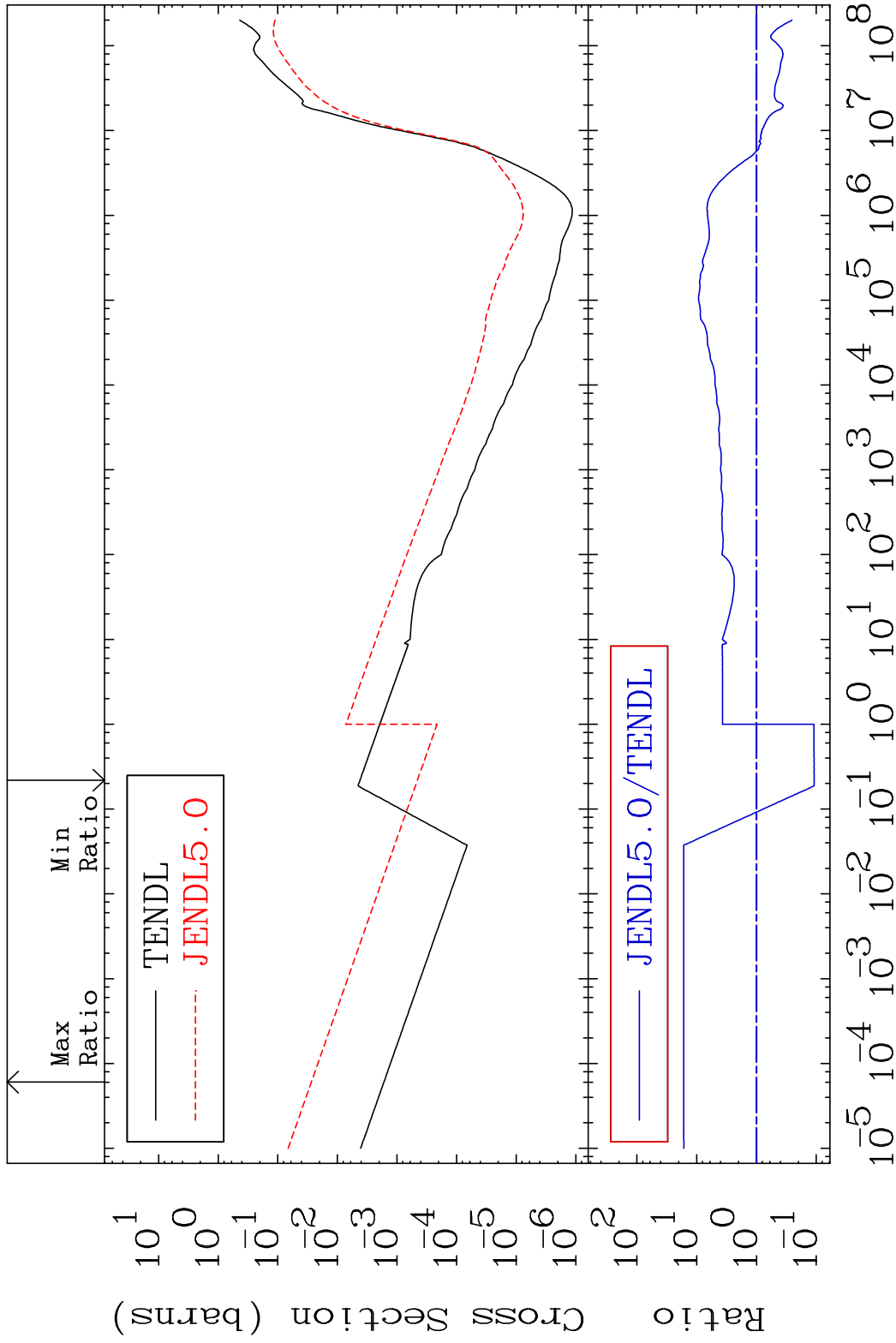
71-Lu-172

MAT 7116

He-4 Production

71-Lu-172

Cross Section -89.12 To 1554. %

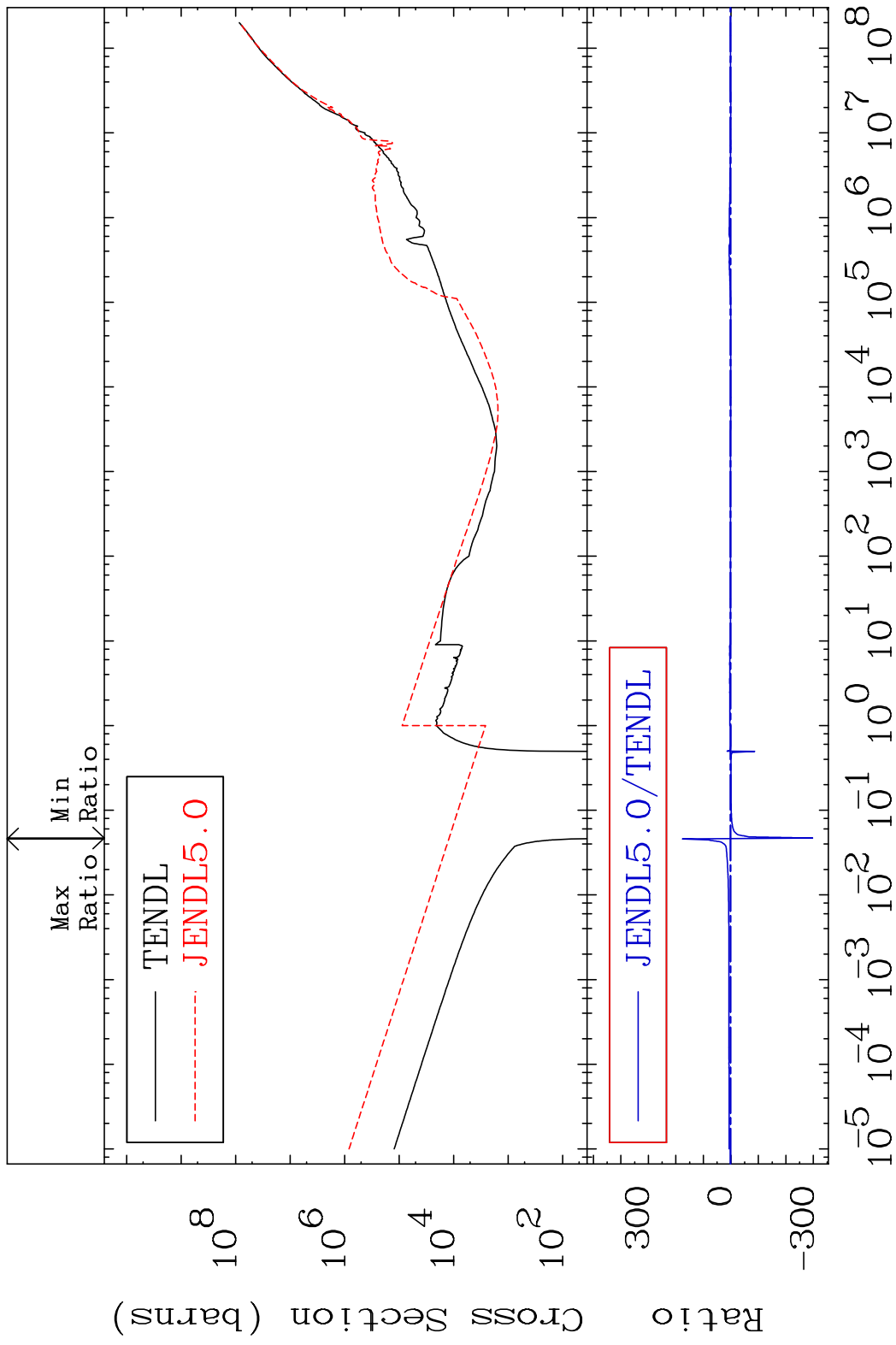


45

Incident Energy (eV)

71-Lu-172

MAT 71116 Kerma total (eV-barns) 71-Lu-172
Cross Section -9999. To 9999. %

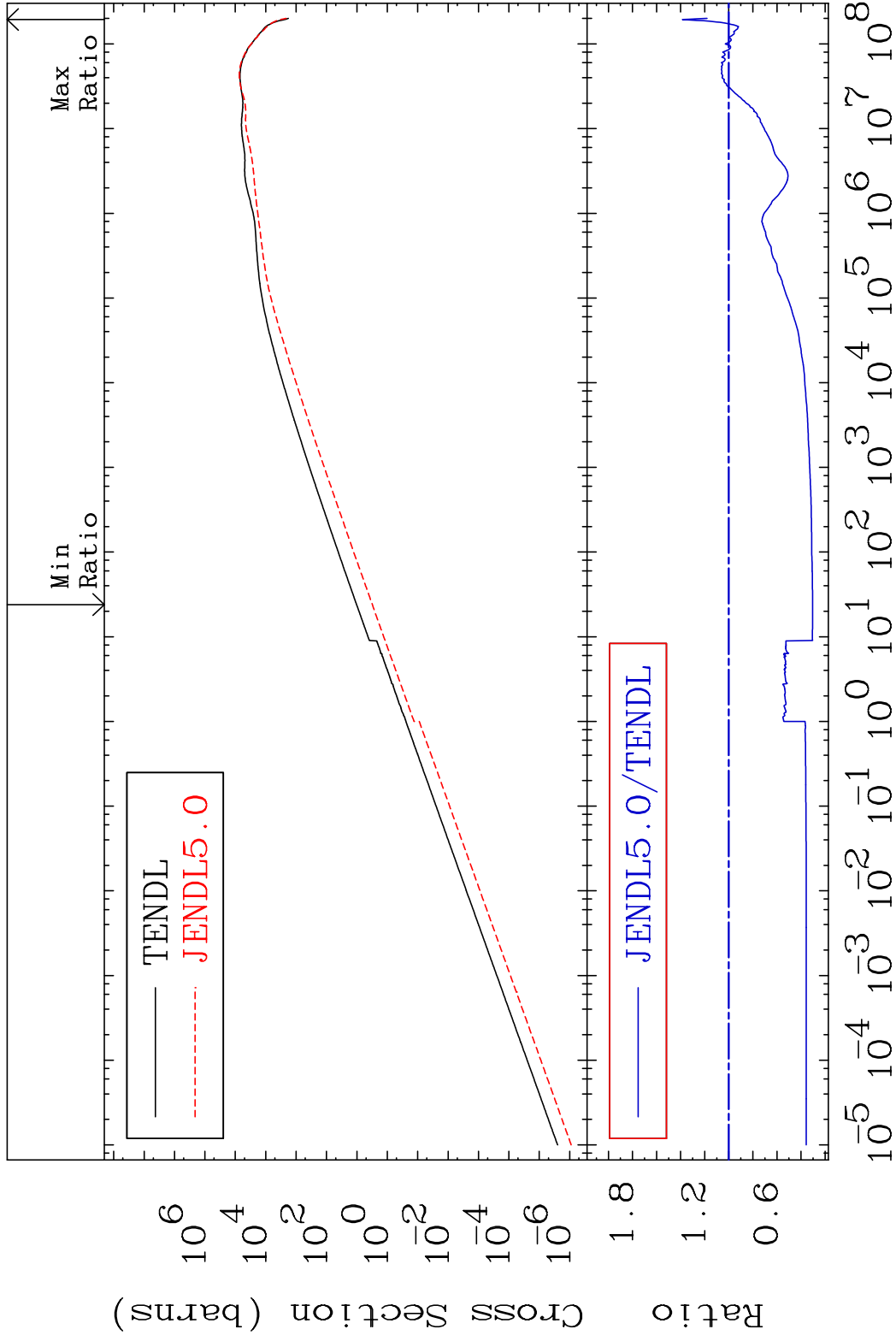


MAT 71116

Kerma elastic

71-Lu-172

Cross Section -69.59 To 38.58 %

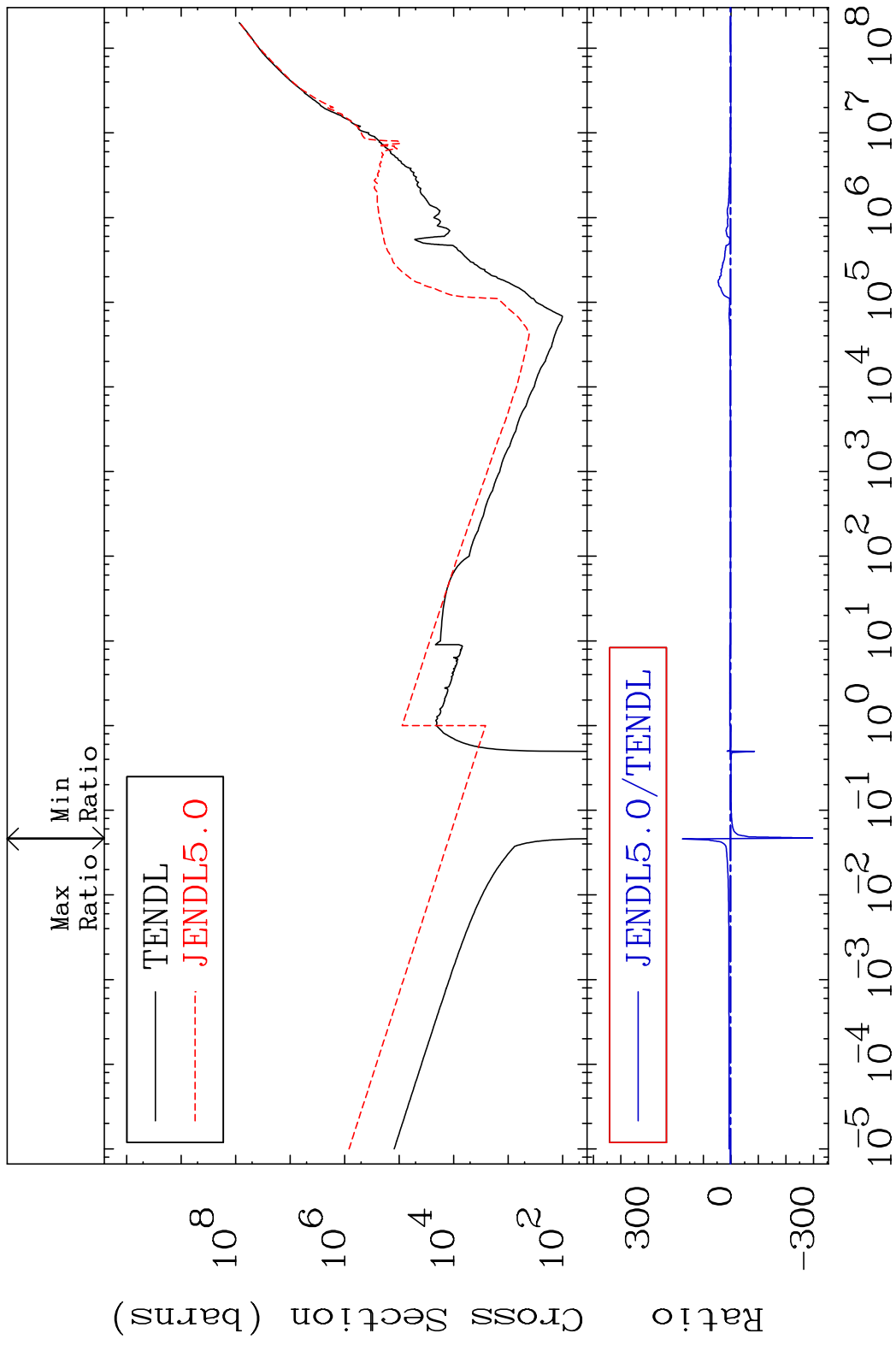


47

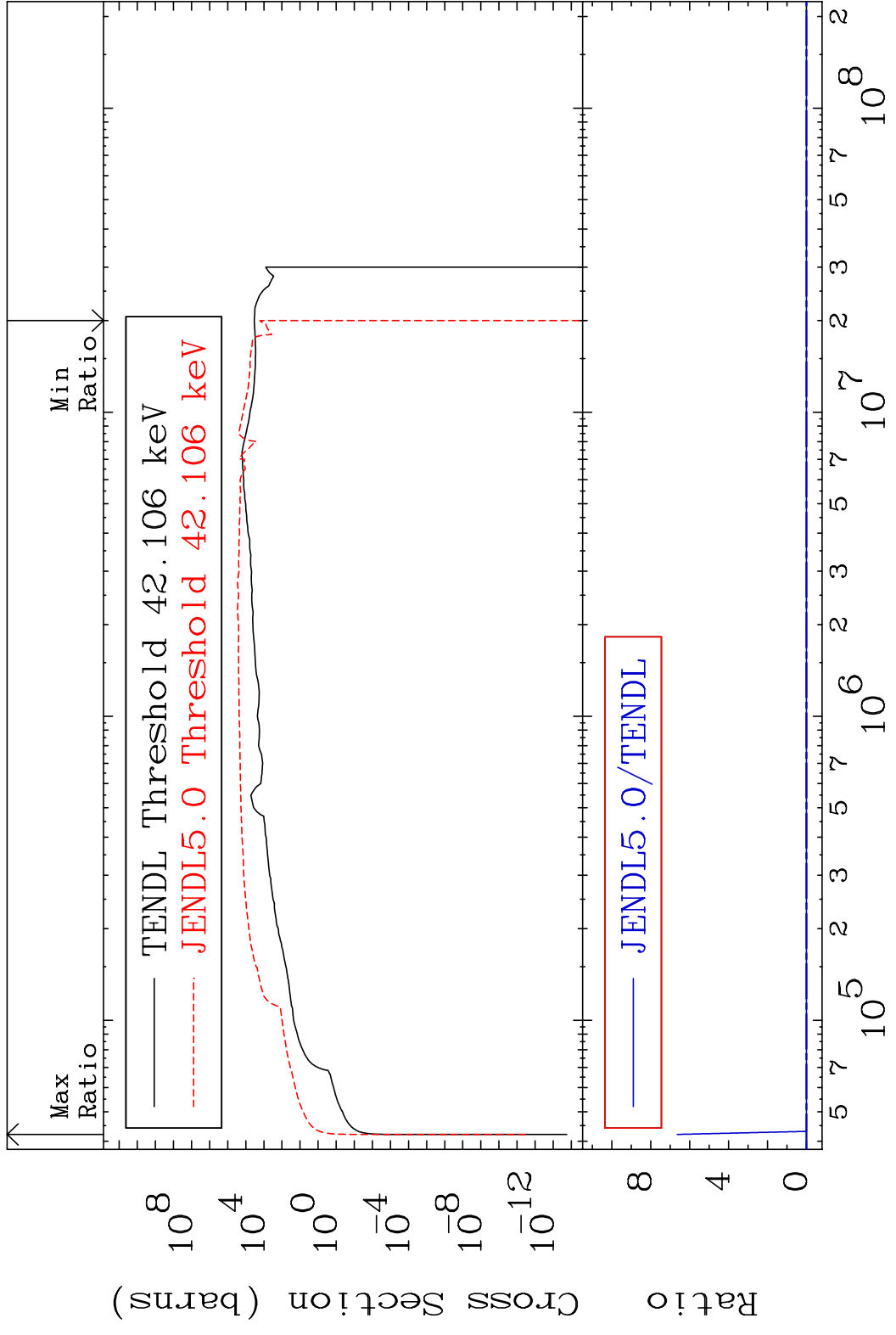
Incident Energy (eV)

71-Lu-172

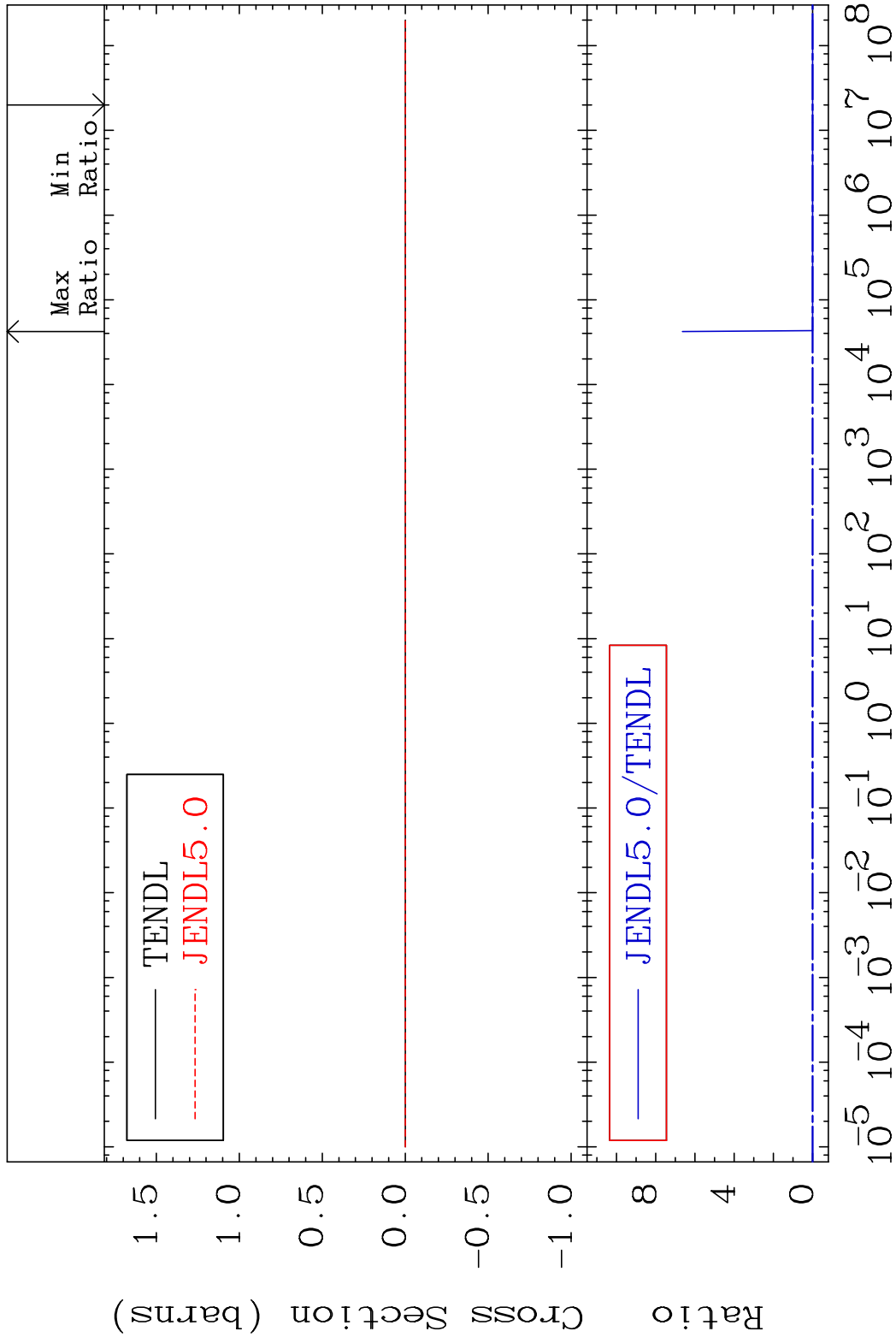
MAT 7116 Kerma non-elastic (all but mt2) 71-Lu-172
 Cross Section -9999. To 9999. %



MAT 7116 Kerma inelastic (mt51-91) 71-Lu-172
 Cross Section -100.0 To 9999. %



MAT 71116 Kerma fission (mt18 or mt19-20-21-38) 71-Lu-172
 Cross Section -100.0 To 9999. %

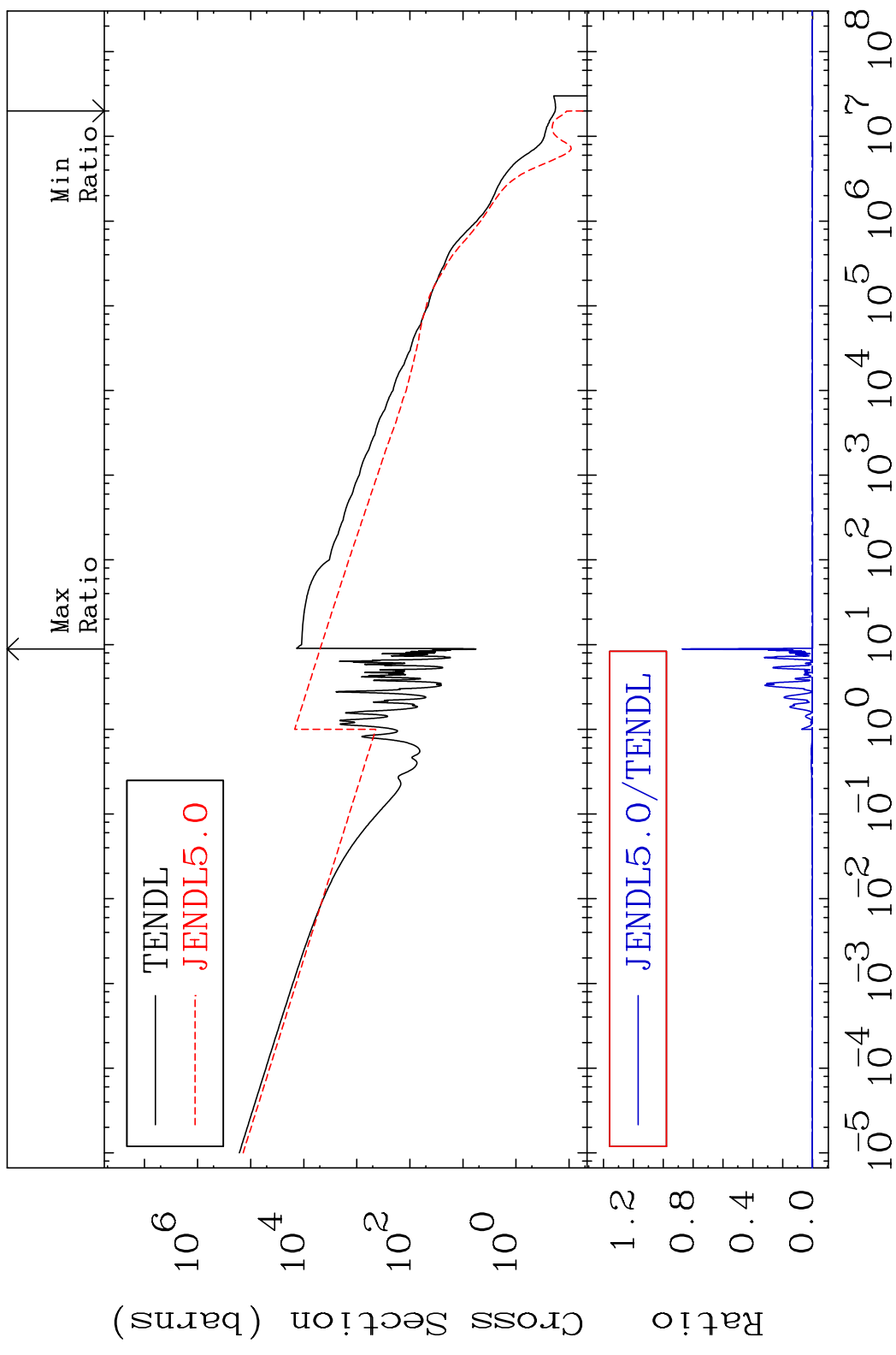


MAT 7116

Kerma capture (mt102)

71-Lu-172

Cross Section -100.0 To 9999. %

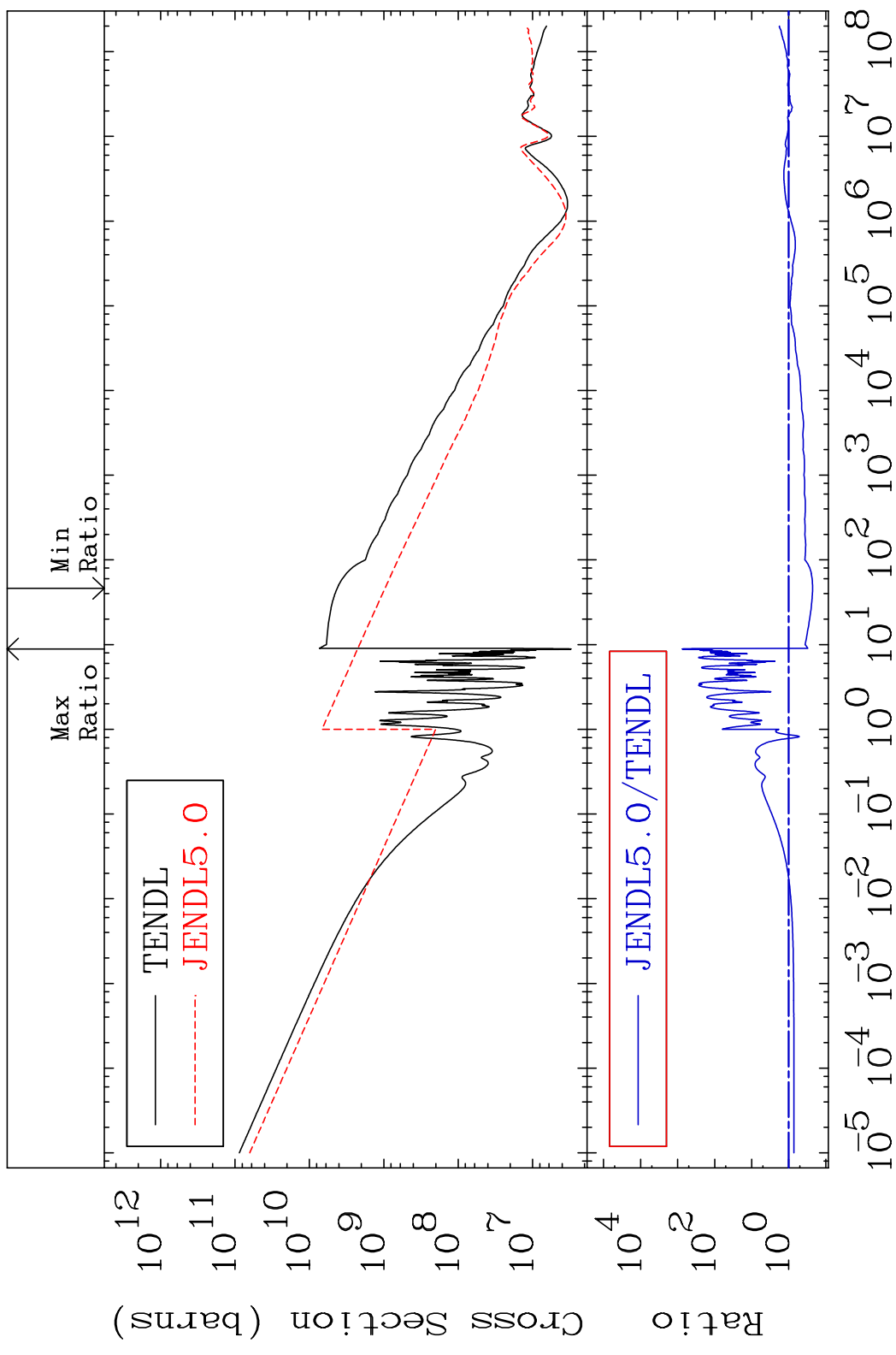


MAT 7116

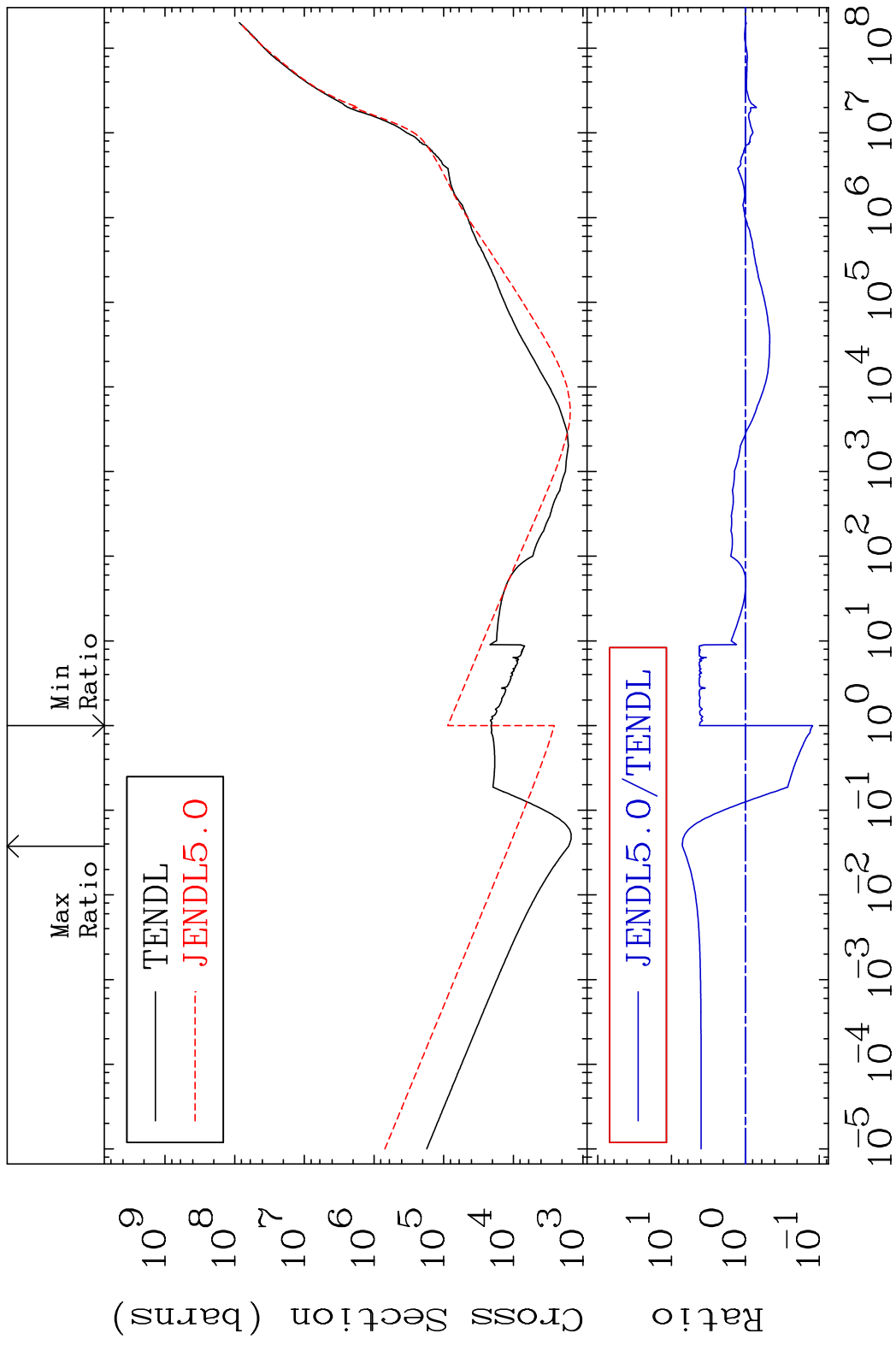
Total photon (eV-barns)

71-Lu-172

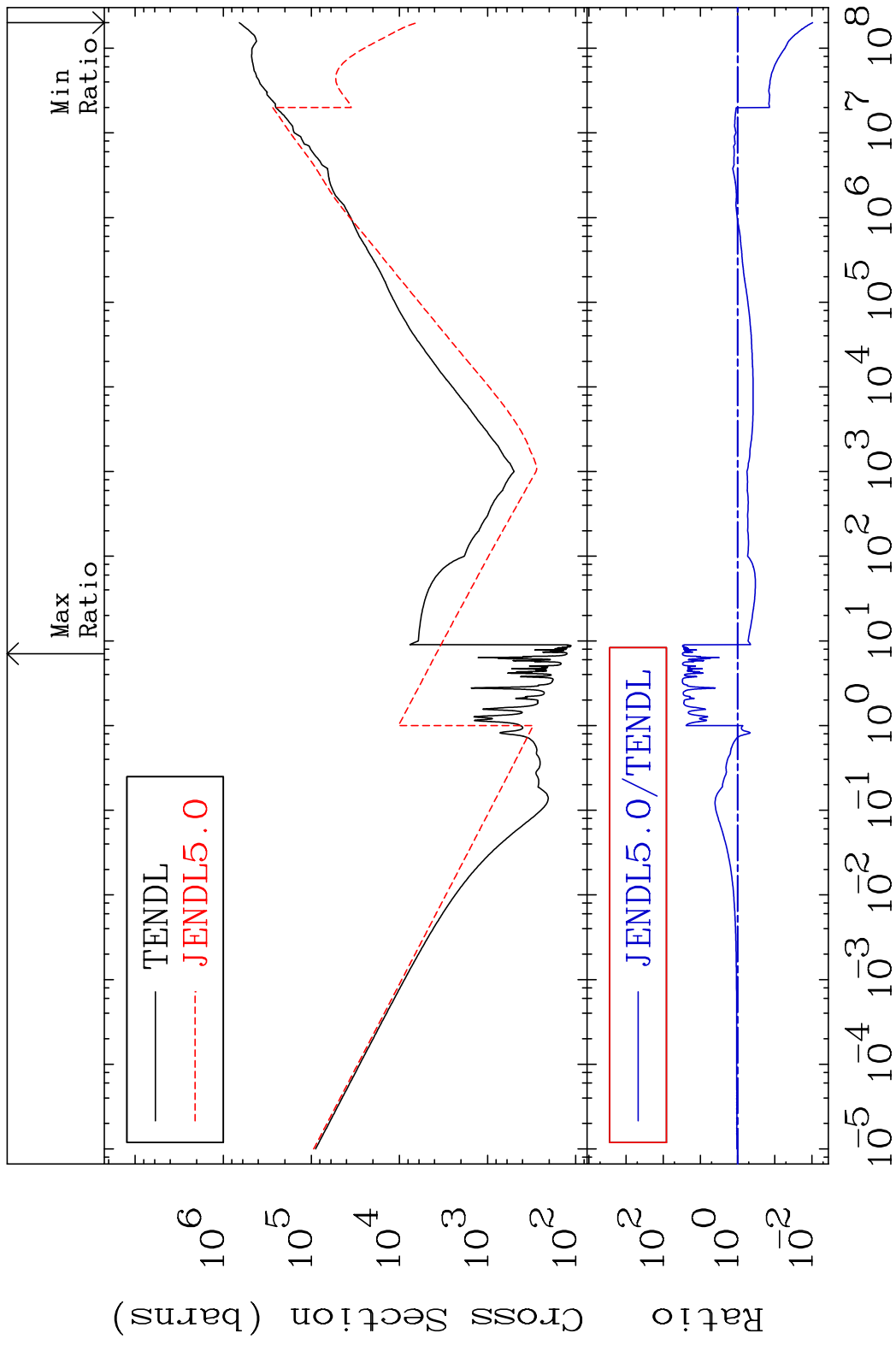
Cross Section -77.26 To 9999. %



MAT 71116 Total kinematic kerma (high limit) 71-Lu-172
 Cross Section -87.65 To 614.1 %



MAT 7116 Dpa total (eV-barns) 71-Lu-172
 Cross Section -99.04 To 2958. %

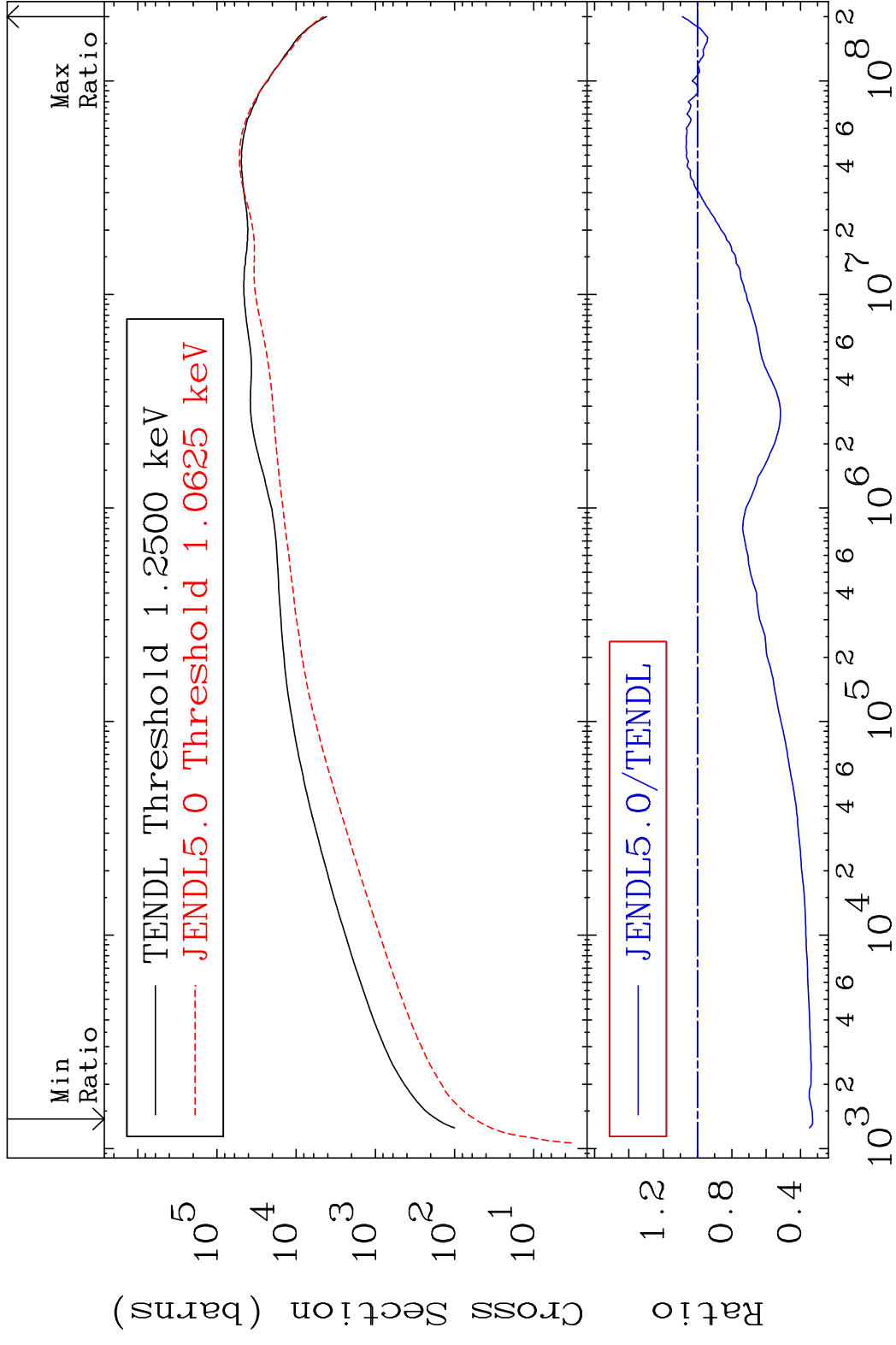


MAT 7116

Dpa elastic (mt2)

71-Lu-172

Cross Section -67.04 To 8.813 %

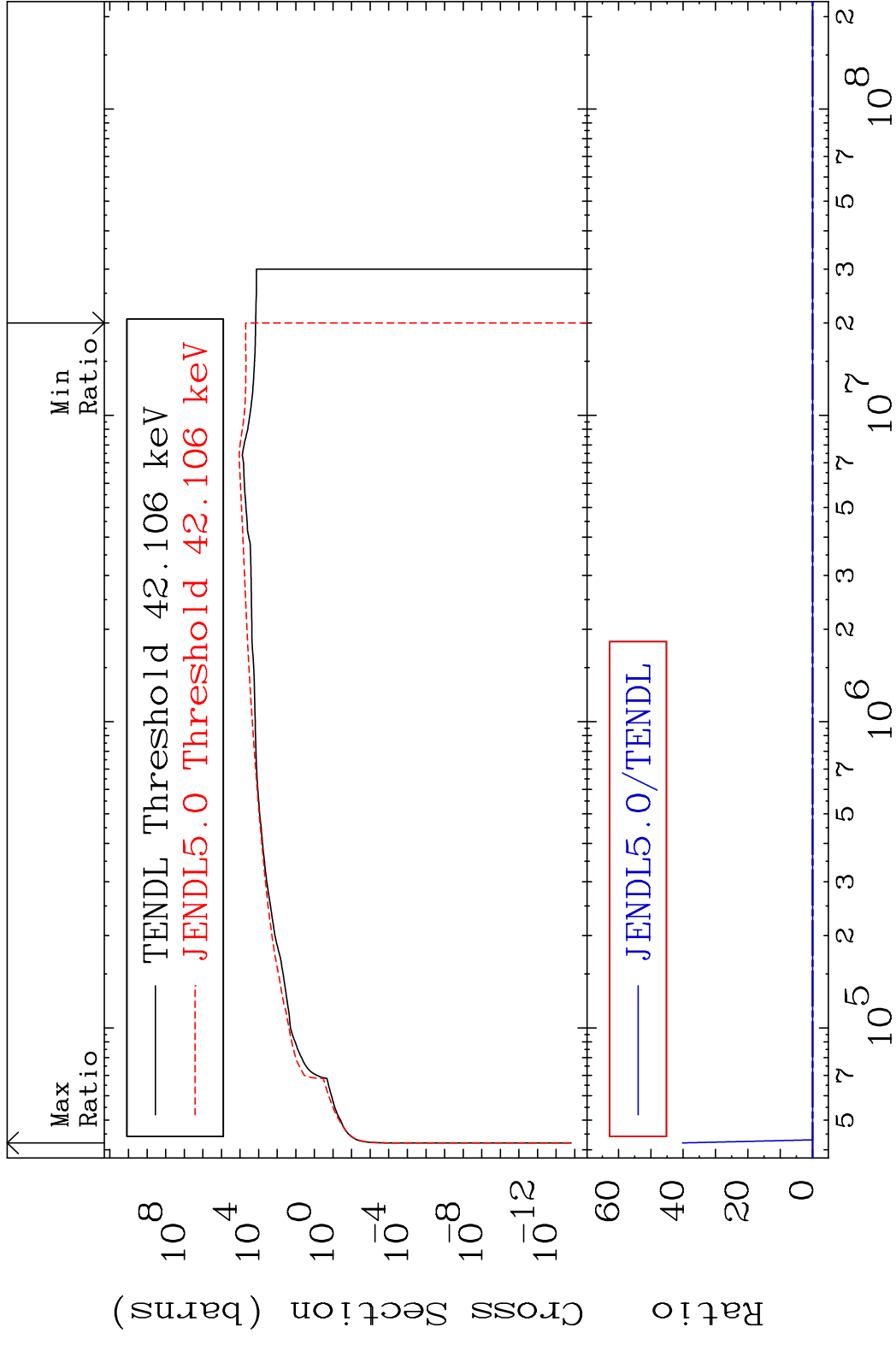


55

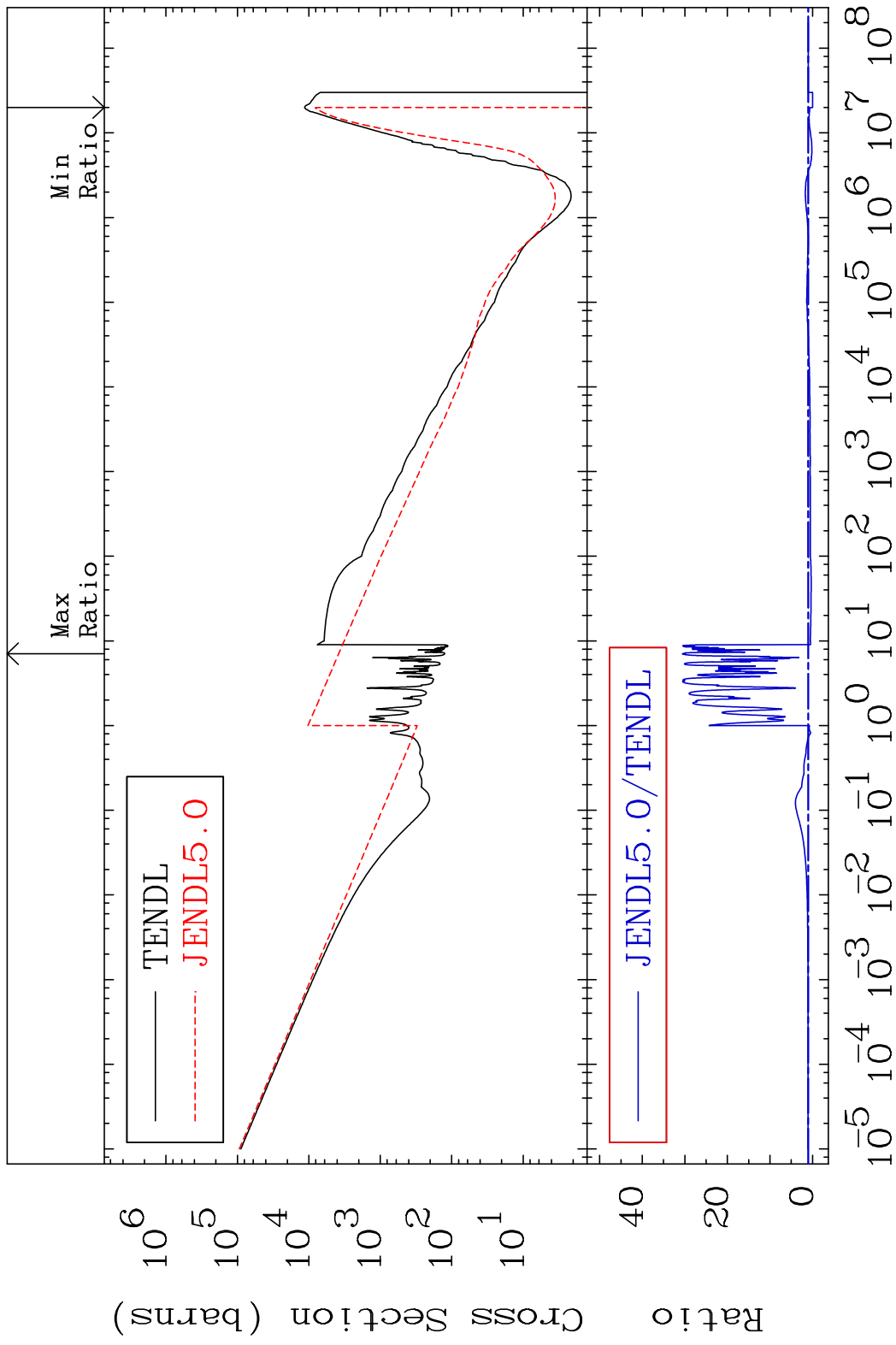
Incident Energy (eV)

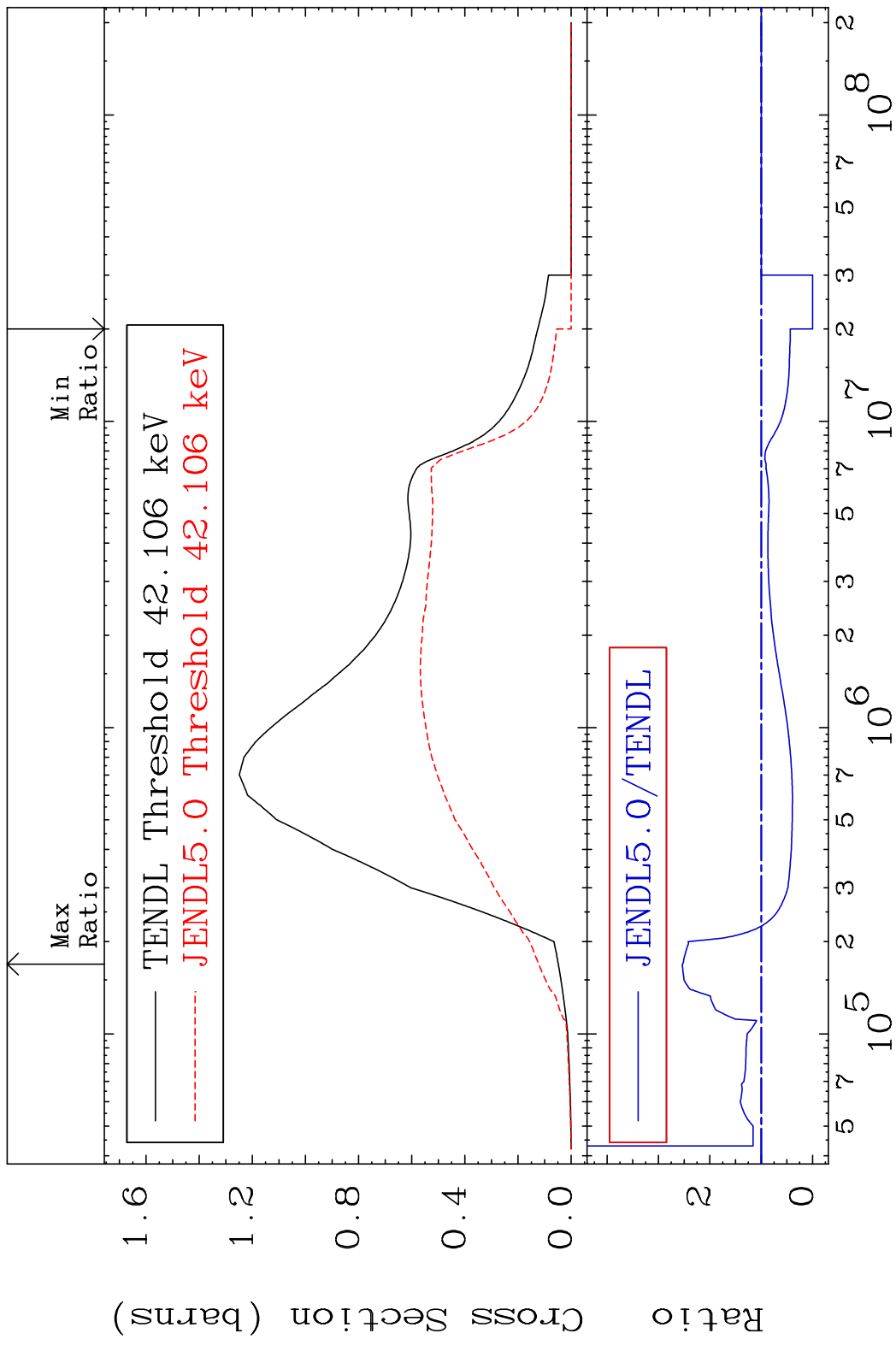
71-Lu-172

MAT 7116 Dpa inelastic (mt51-91) 71-Lu-172
 Cross Section -100.0 To 9999. %

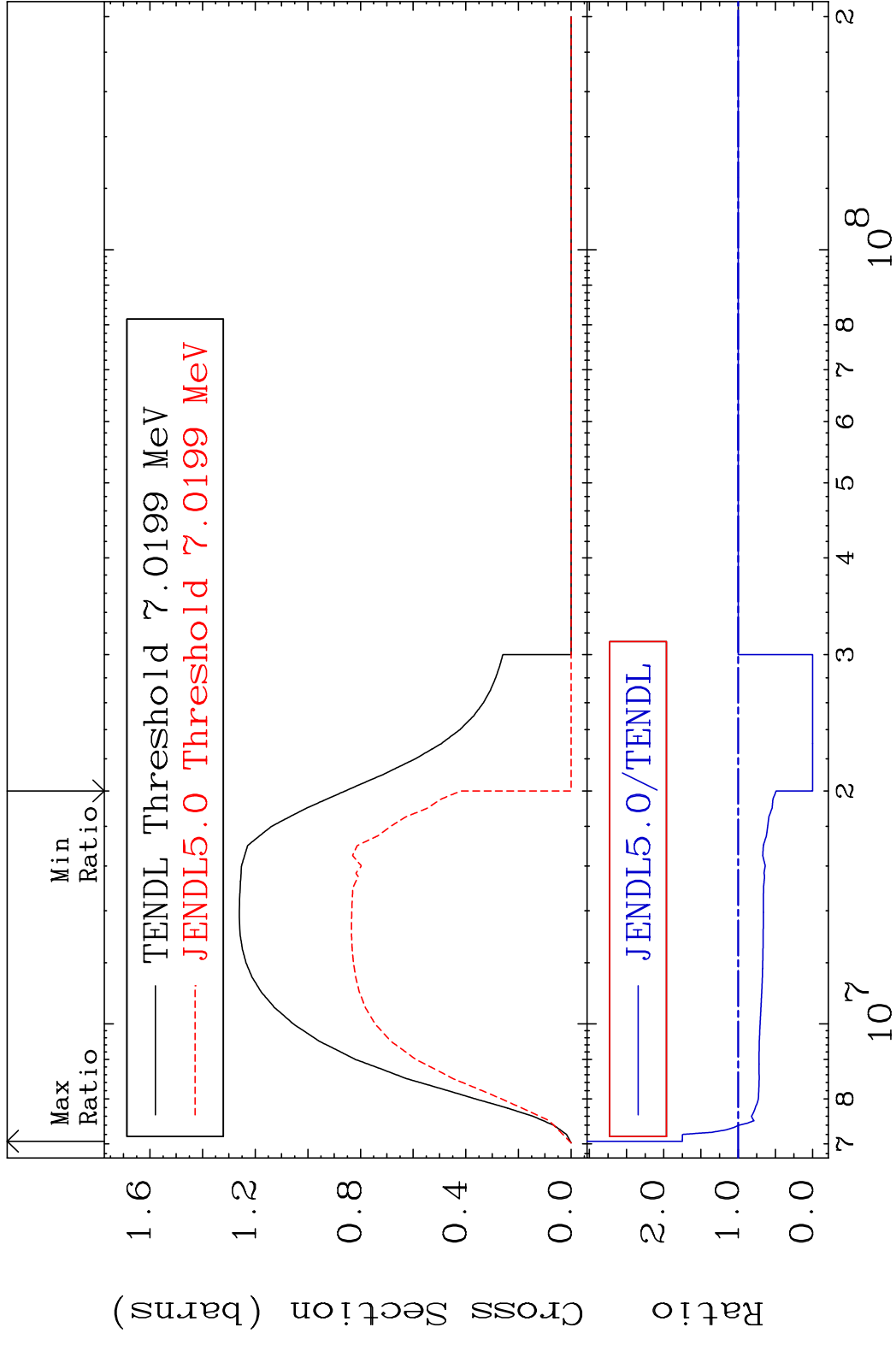


MAT 7116 Dpa disappearance (mt102 -120) 71-Lu-172
 Cross Section -100.0 To 2958. %

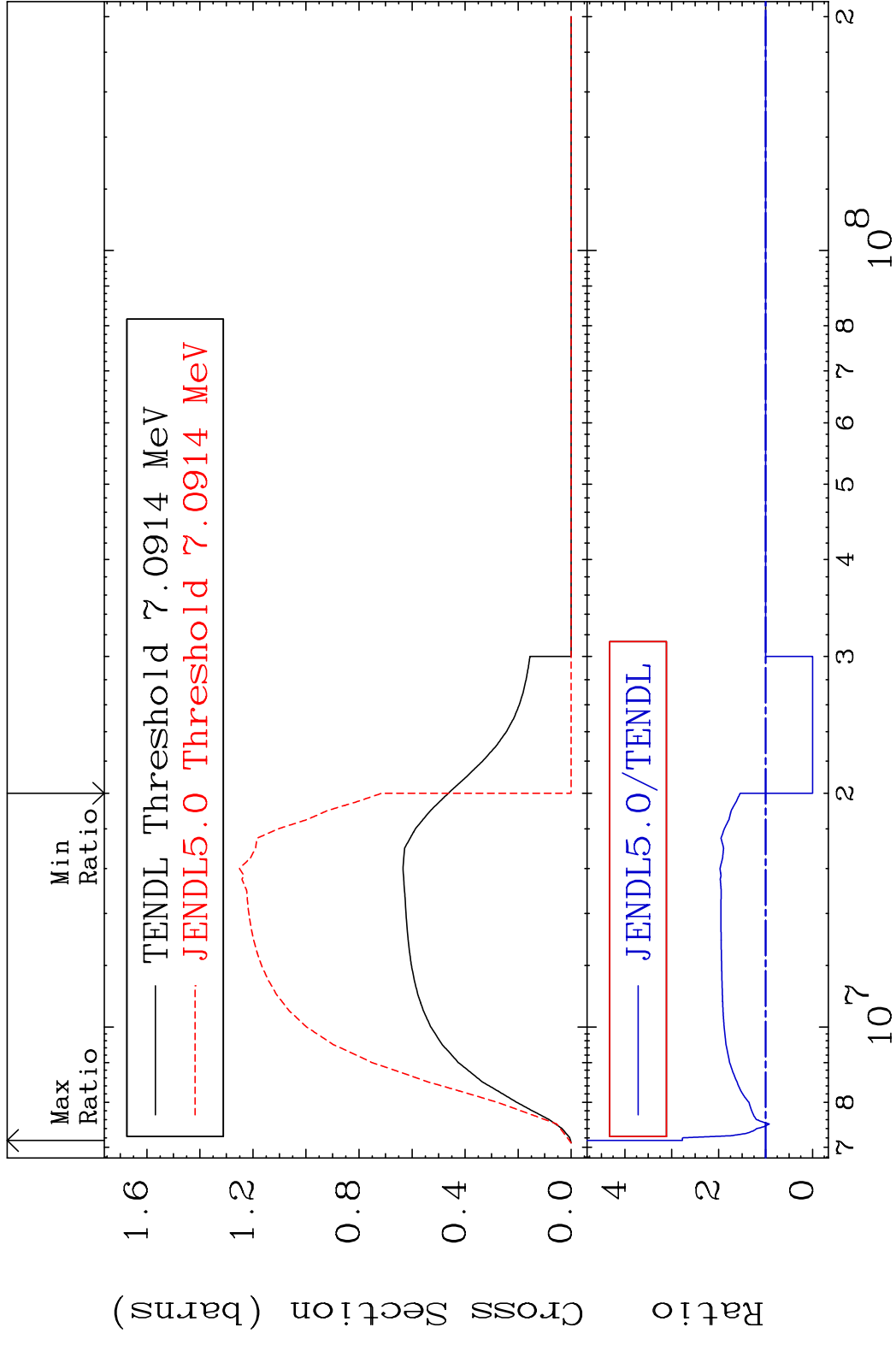




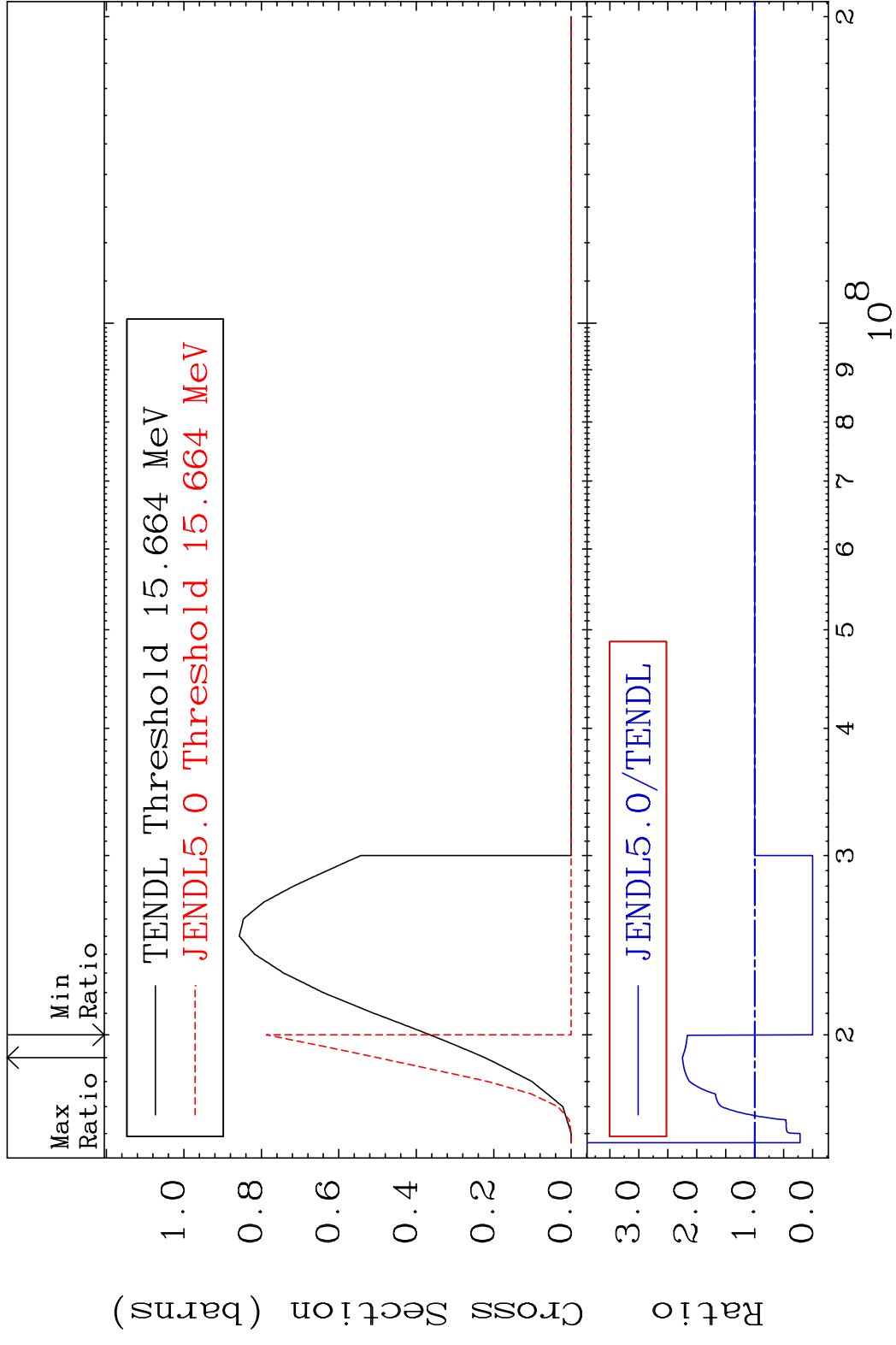
MAT 7116 (n,2n):71-Lu-171g 71-Lu-172
 Radionuclide Production Cross Section 180.01 dth 75.00 %

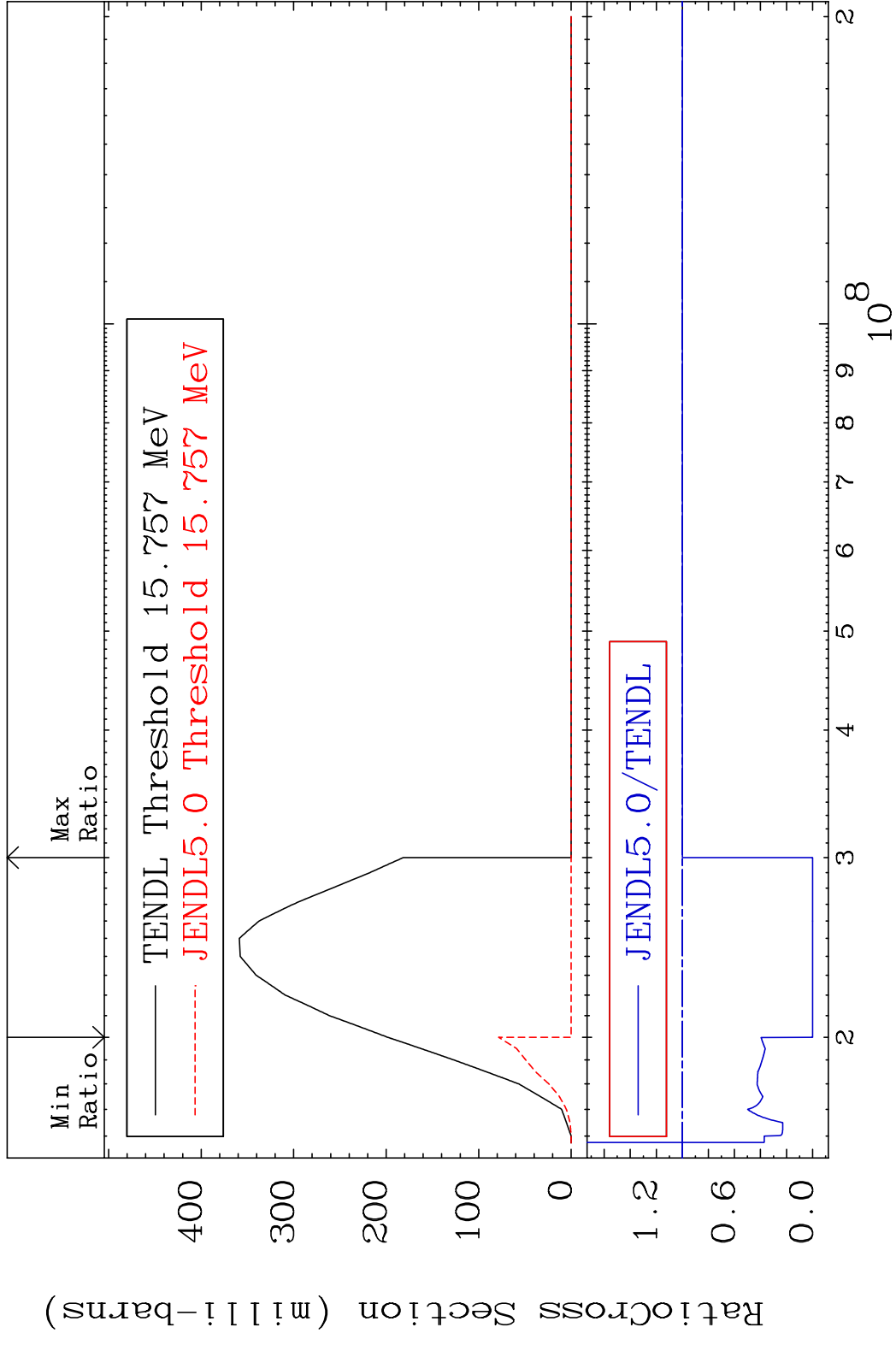


MAT 7116 (n,2n):71-Lu-171m1 71-Lu-172
 Radionuclide Production Cross Section 180.0 dpo 177.4 %

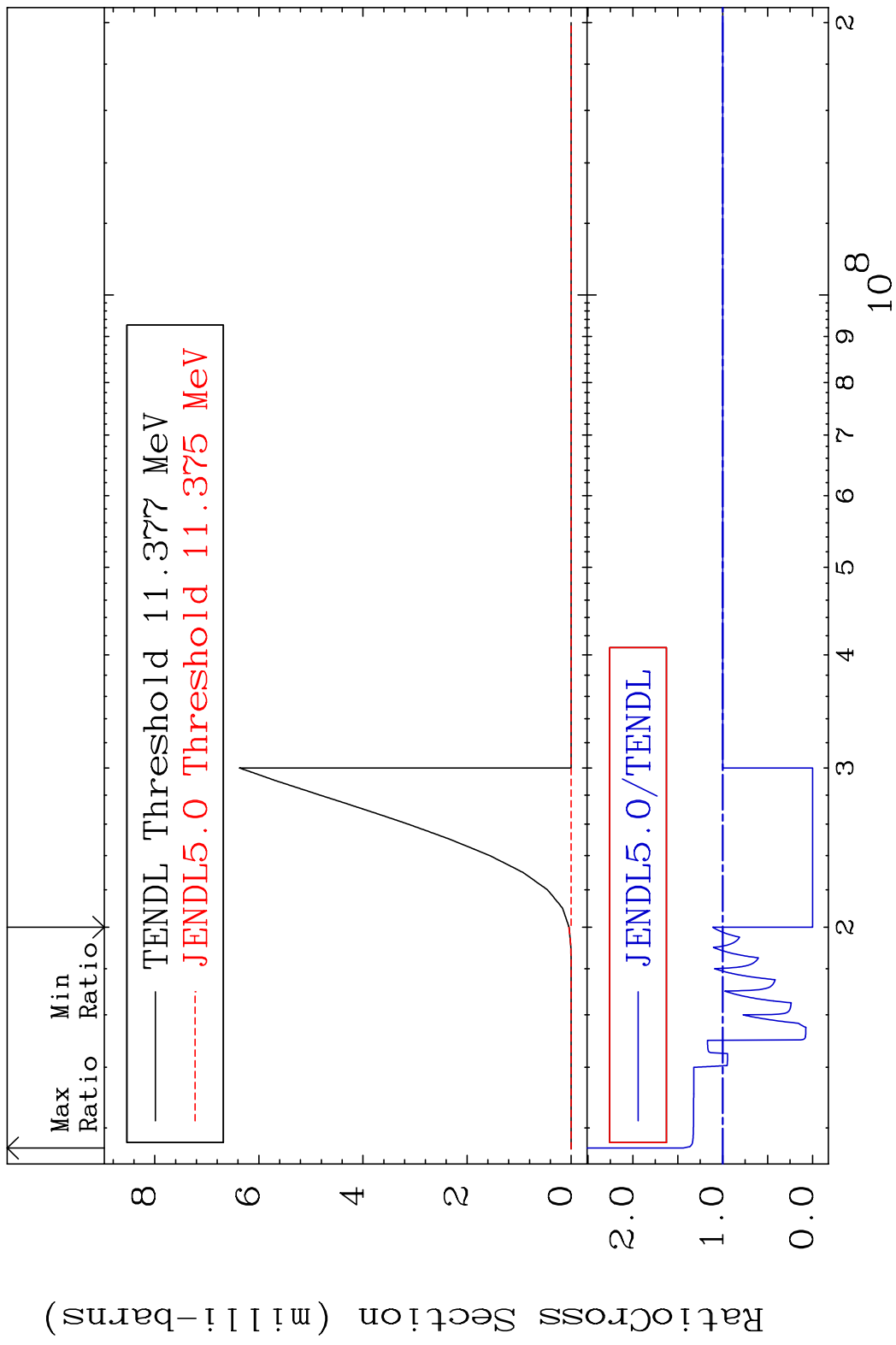


MAT 7116 (n,3n):71-Lu-170g 71-Lu-172
 Radionuclide Production Cross Section 180.0 dth 124.8 %





MAT 7116 (n, n') t:70-Yb-169g 71-Lu-172
 Radionuclide Production Cross Section Ratio



MAT 7116 (n, n') t:70-Yb-169m1 71-Lu-172
 Radionuclide Production Cross Section 180.0 dth 609.0 %

