

Program Complot
(Version 2021-1)

by

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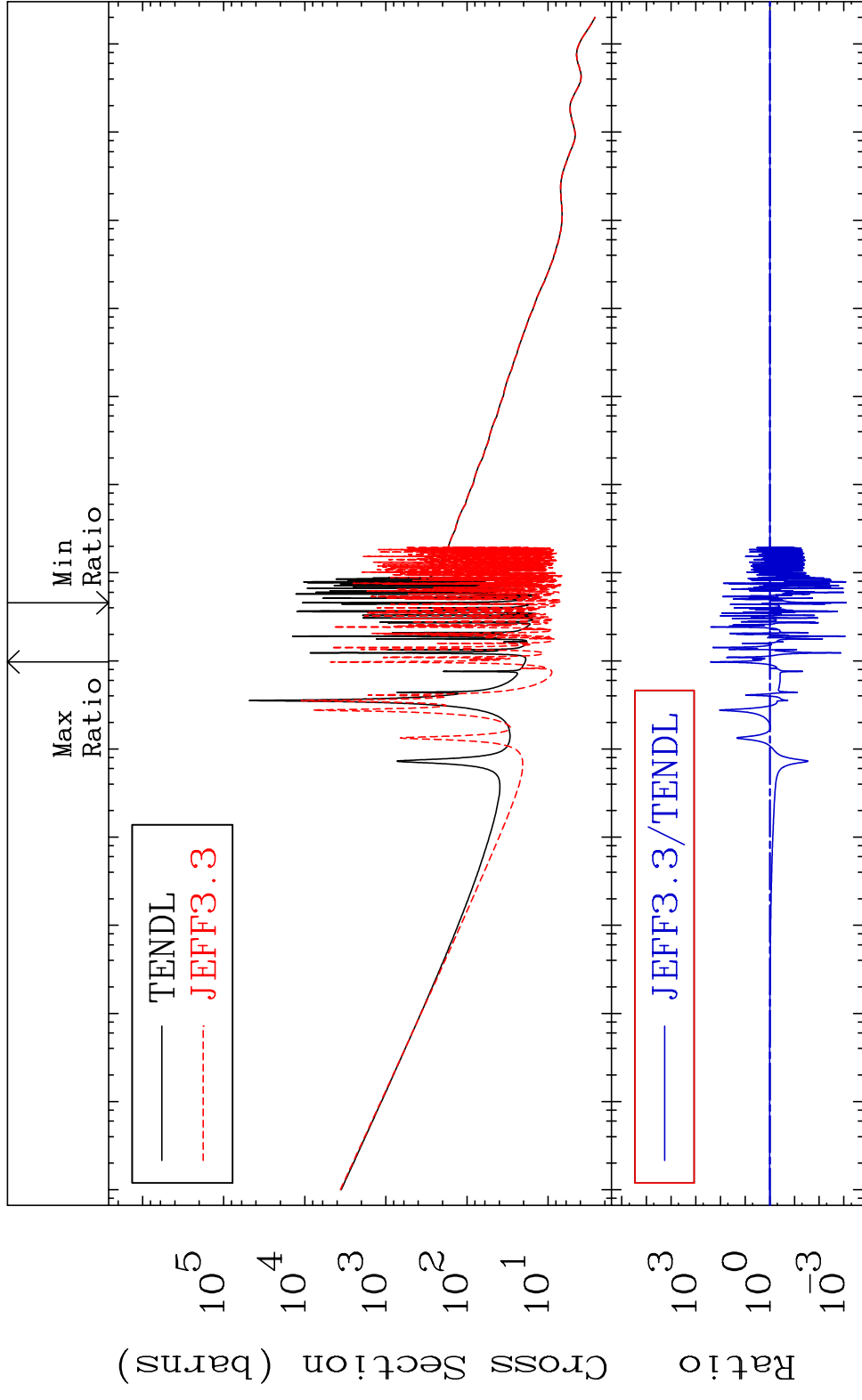
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7122

71-Lu-174

Total Cross Section -99.92 To 9999. %



71-Lu-174

Incident Energy (eV)

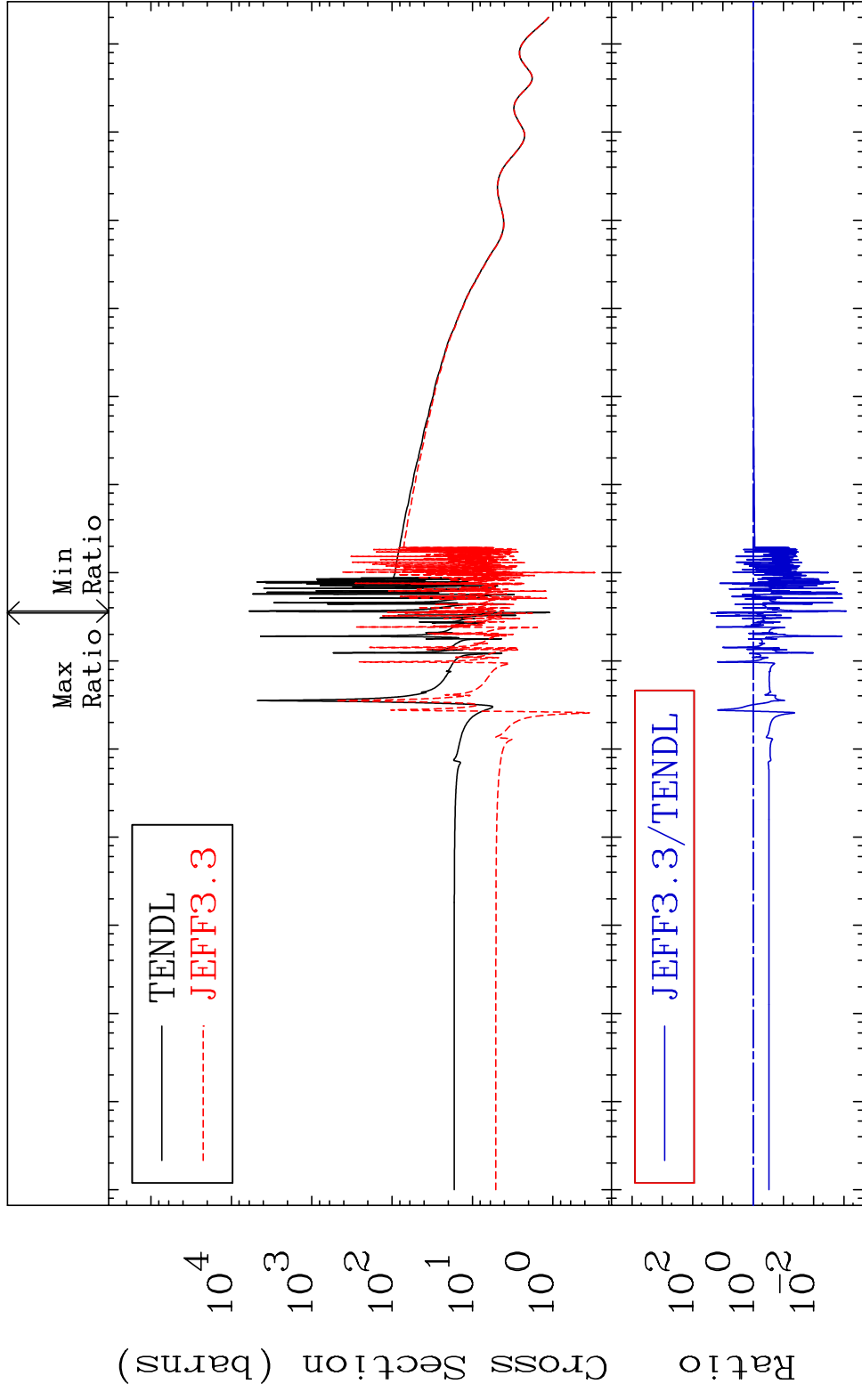
1

MAT 7122

71-Lu-174

Elastic

Cross Section -99.92 To 2426. %



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

2

Incident Energy (eV)

71-Lu-174

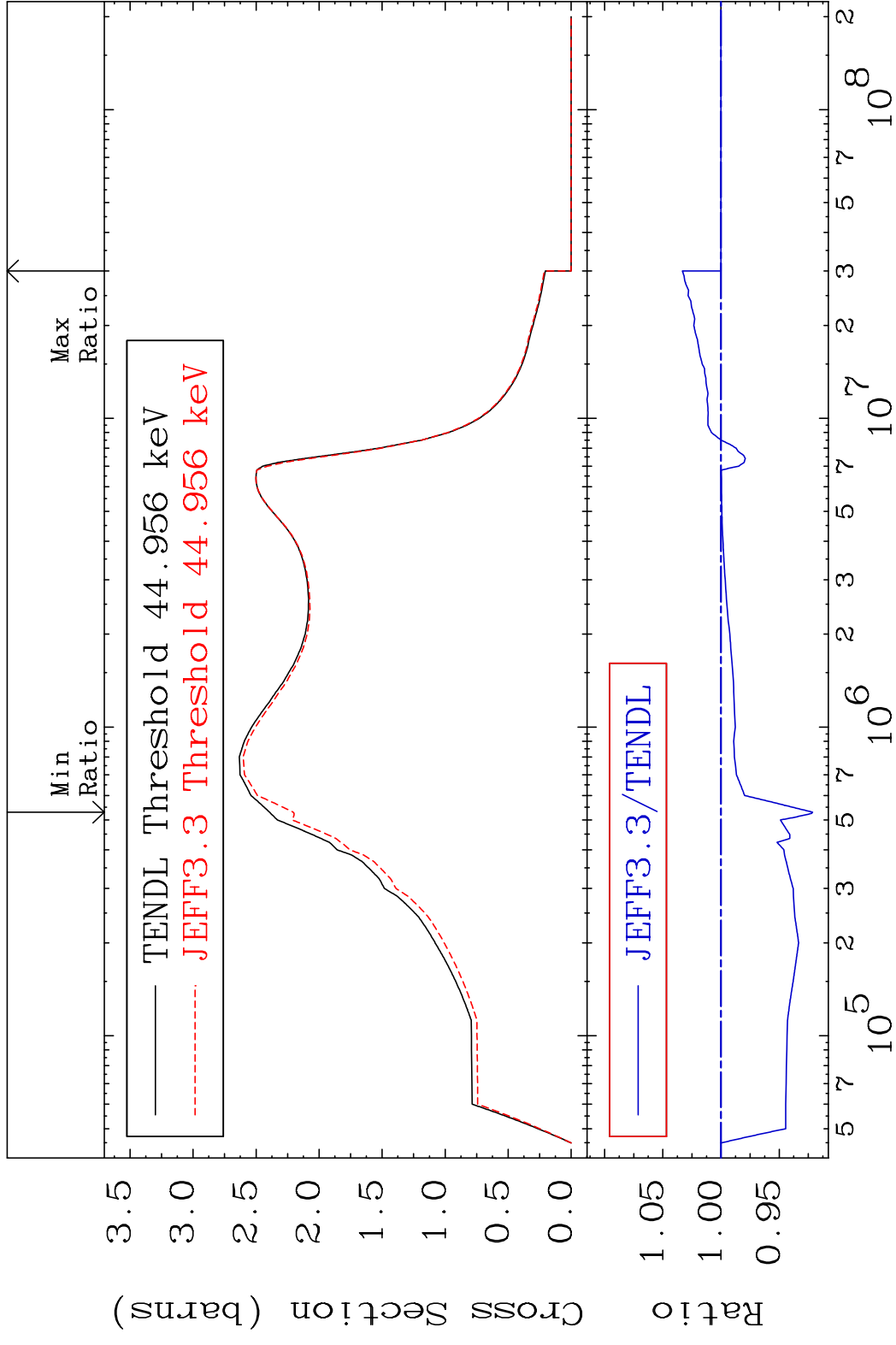
MAT 7122

Inelastic

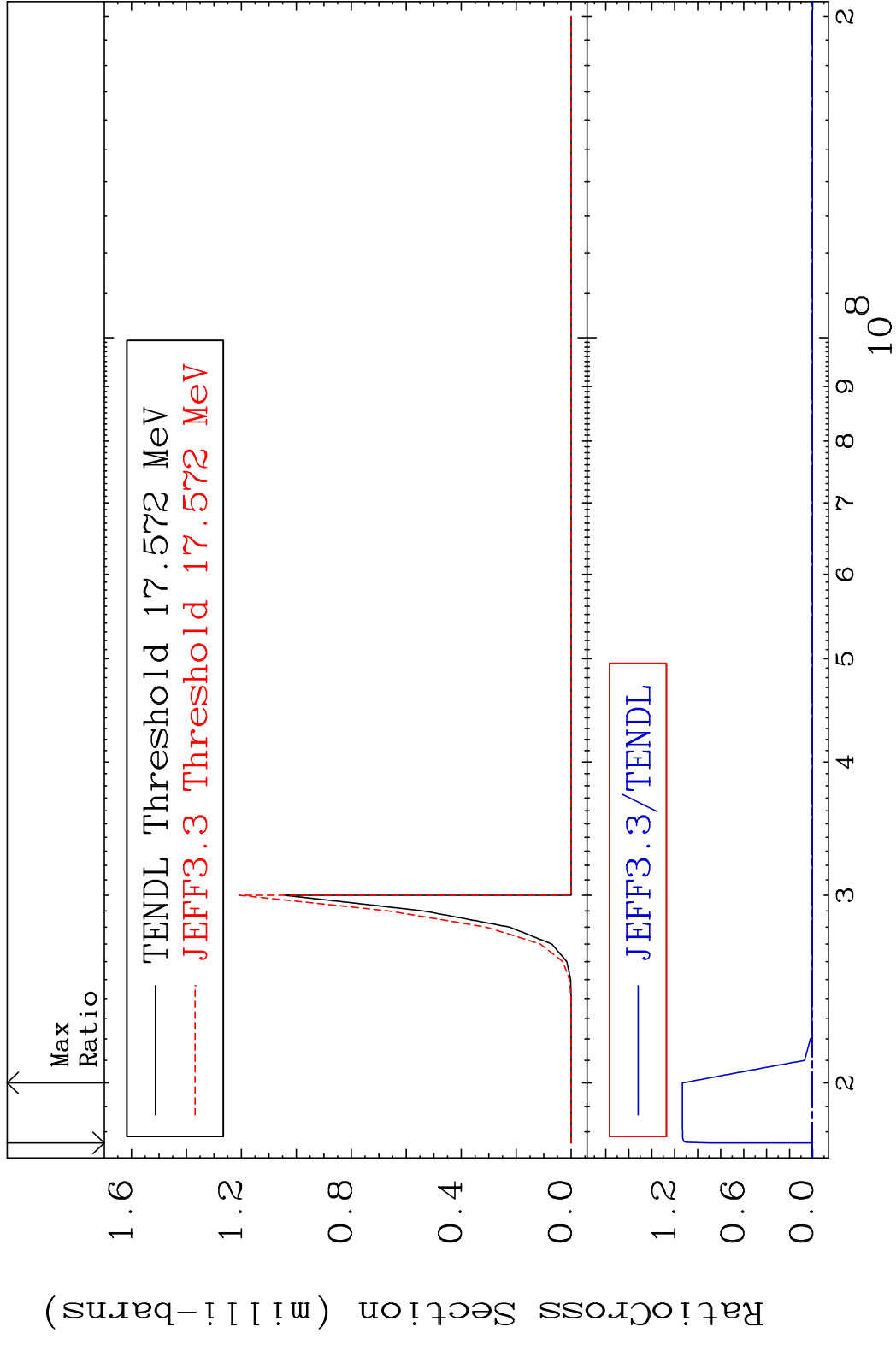
71-Lu-174

Cross Section

-7.866 To 3.320 %



MAT 7122 (n,2n) d 71-Lu-174
 Cross Section -100.0 To 9999. %

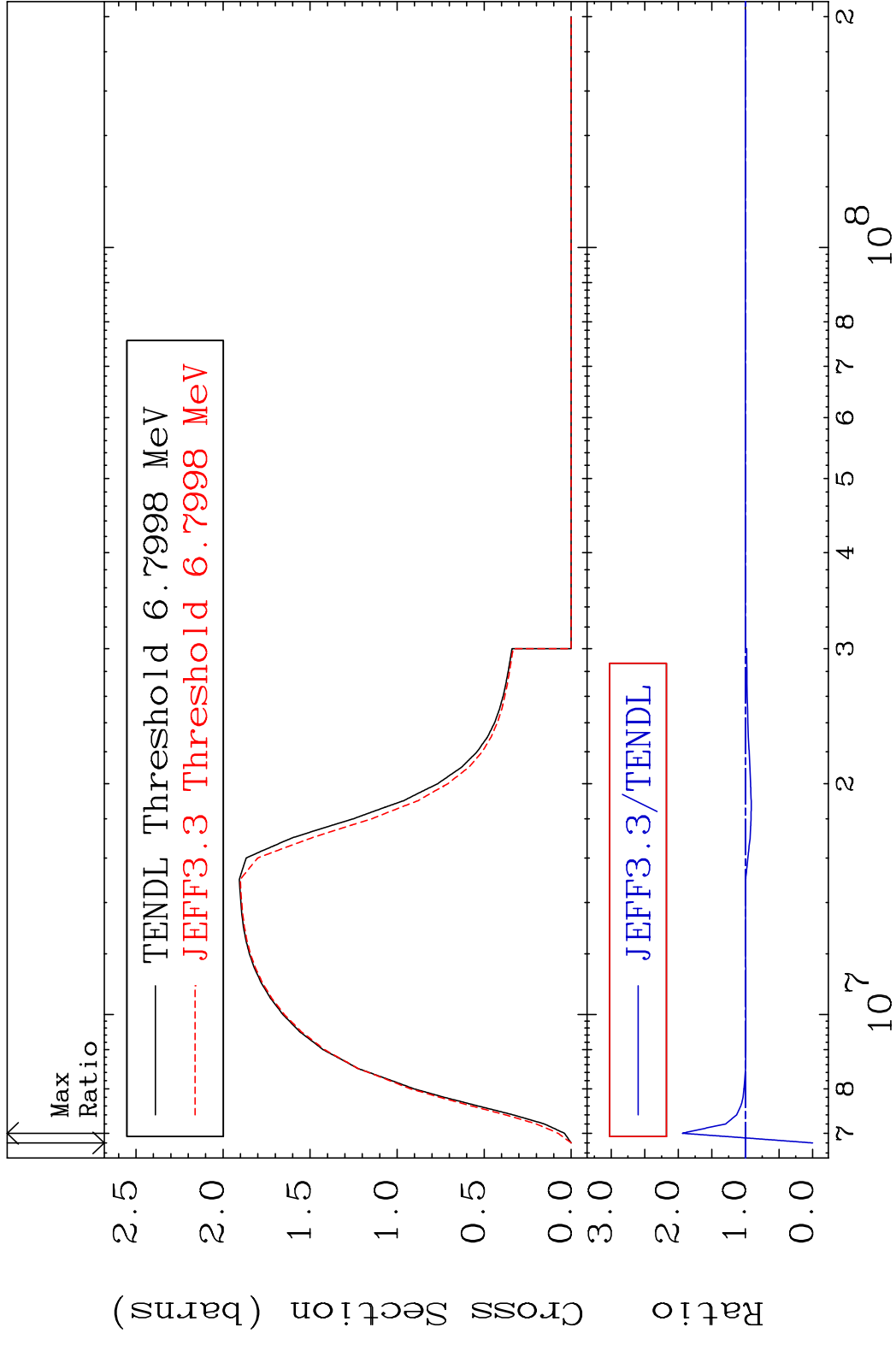


MAT 7122

(n,2n)

71-Lu-174

Cross Section -100.0 To 93.99 %

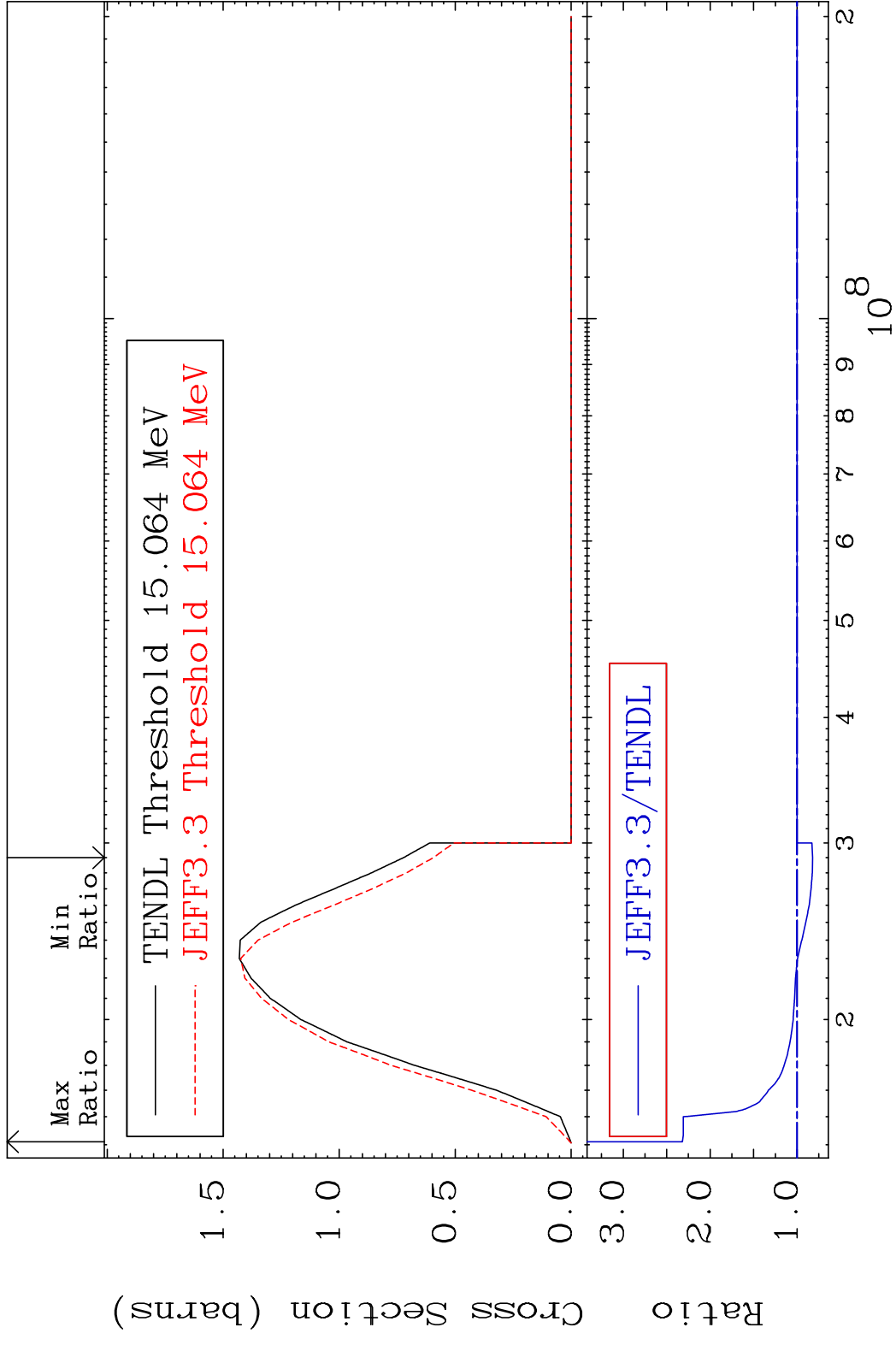


MAT 7122

(n,3n)

71-Lu-174

Cross Section -17.76 To 132.0 %

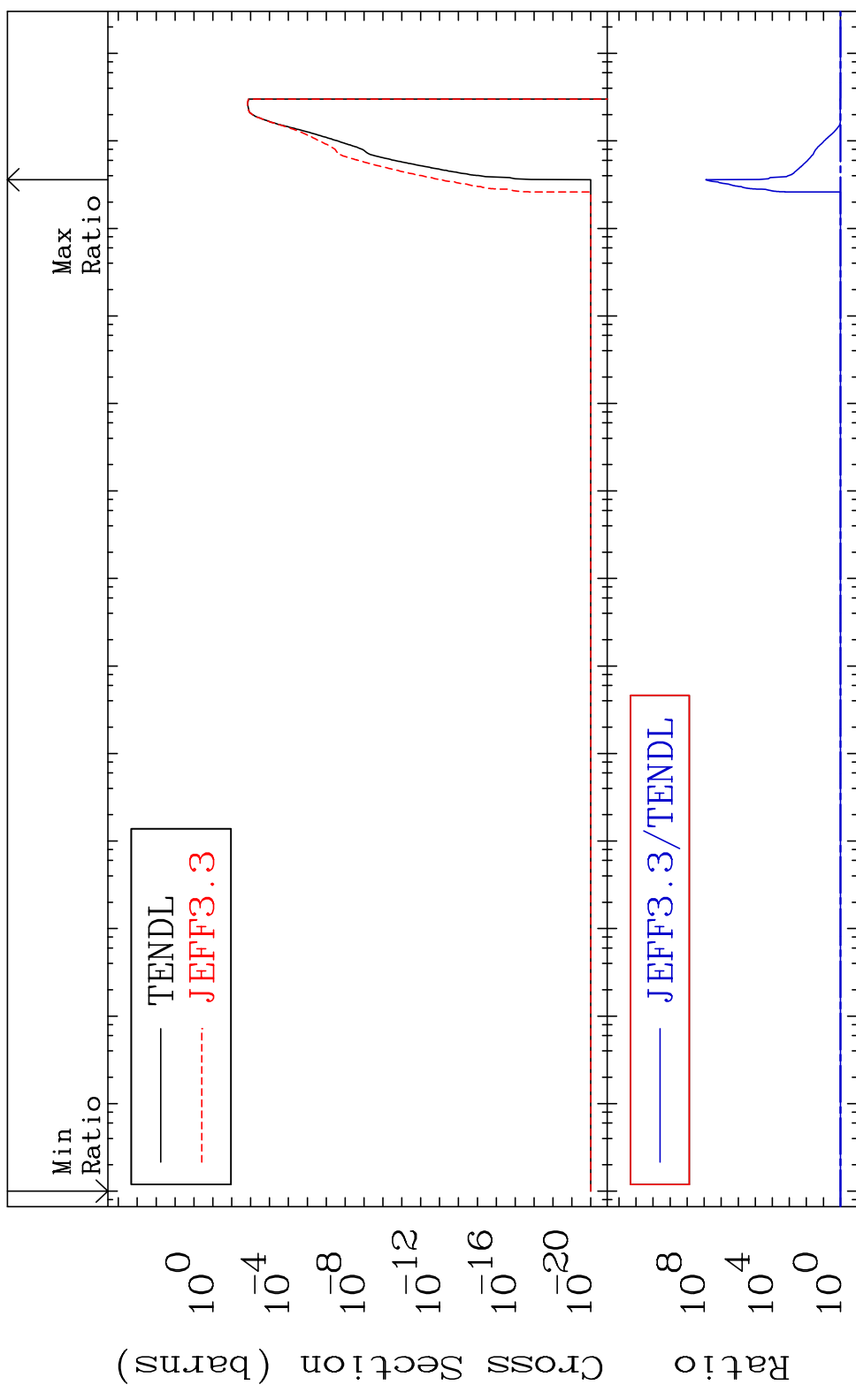


MAT 7122

(n, n') α

71-Lu-174

Cross Section 0.000 To 9999. %



7

Incident Energy (eV)

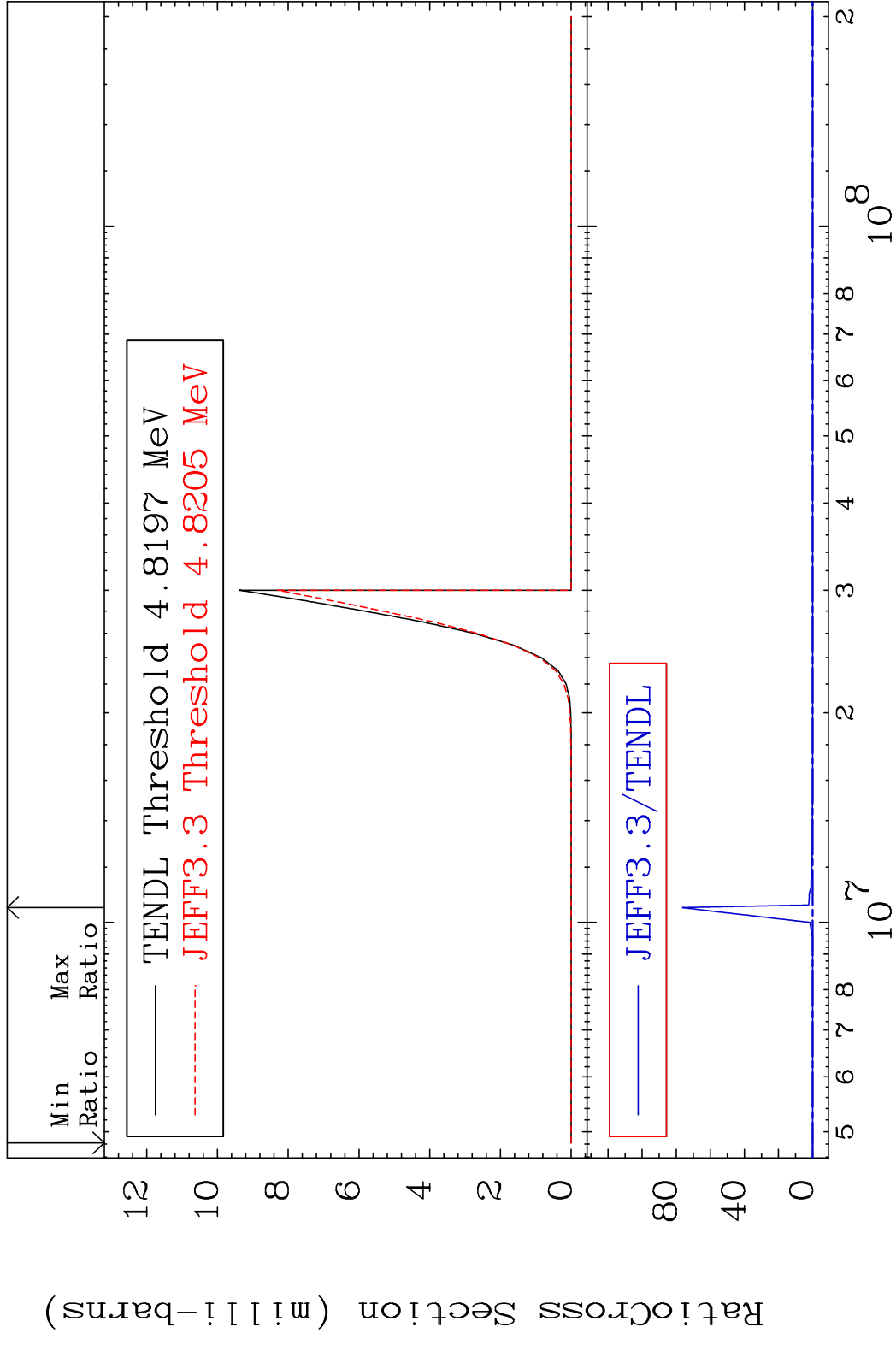
71-Lu-174

MAT 7122

(n,2n) α

71-Lu-174

Cross Section -100.0 To 9999. %



8

Incident Energy (eV)

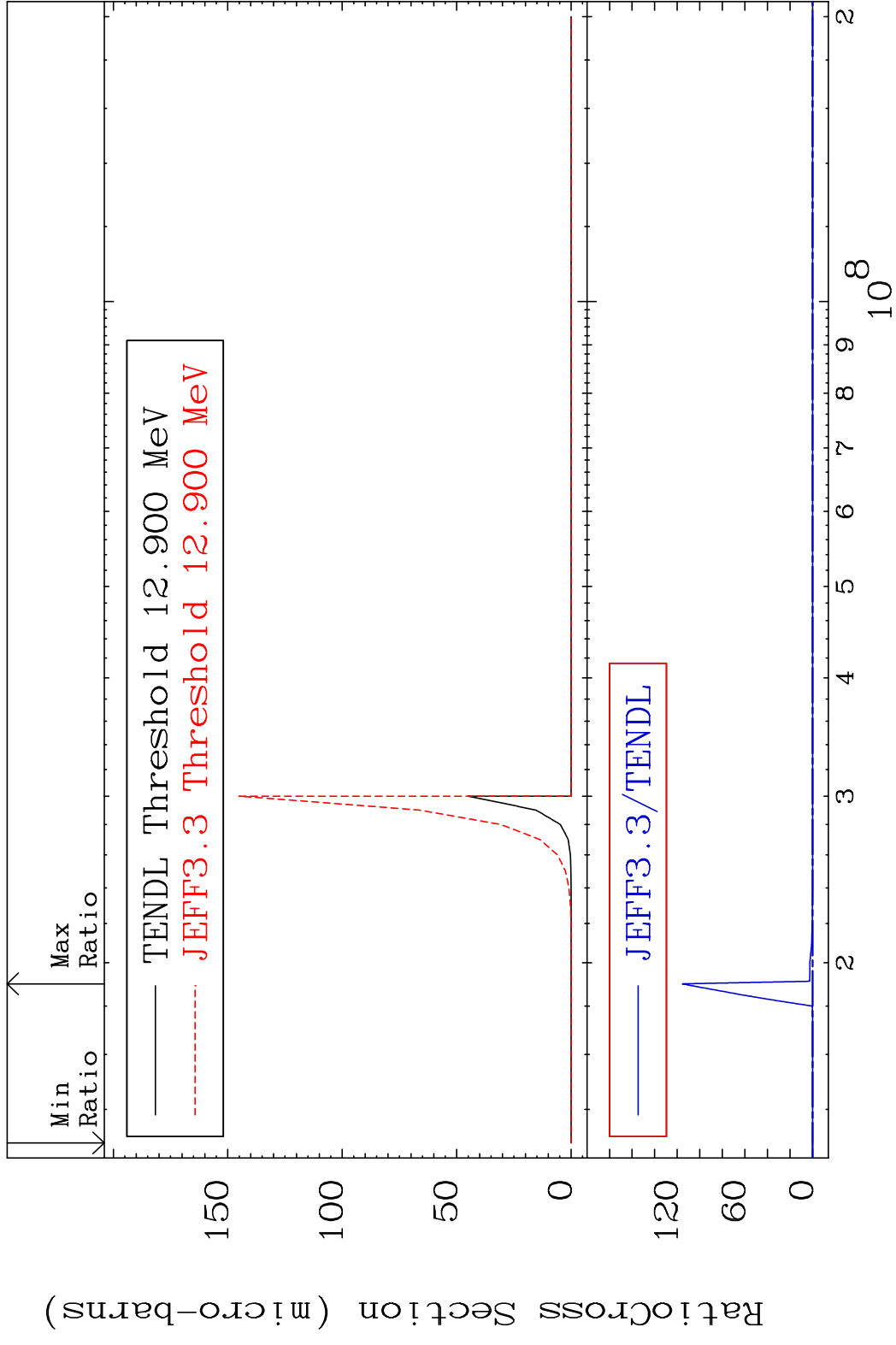
71-Lu-174

MAT 7122

(n,3n) α

71-Lu-174

Cross Section -100.0 To 9999. %

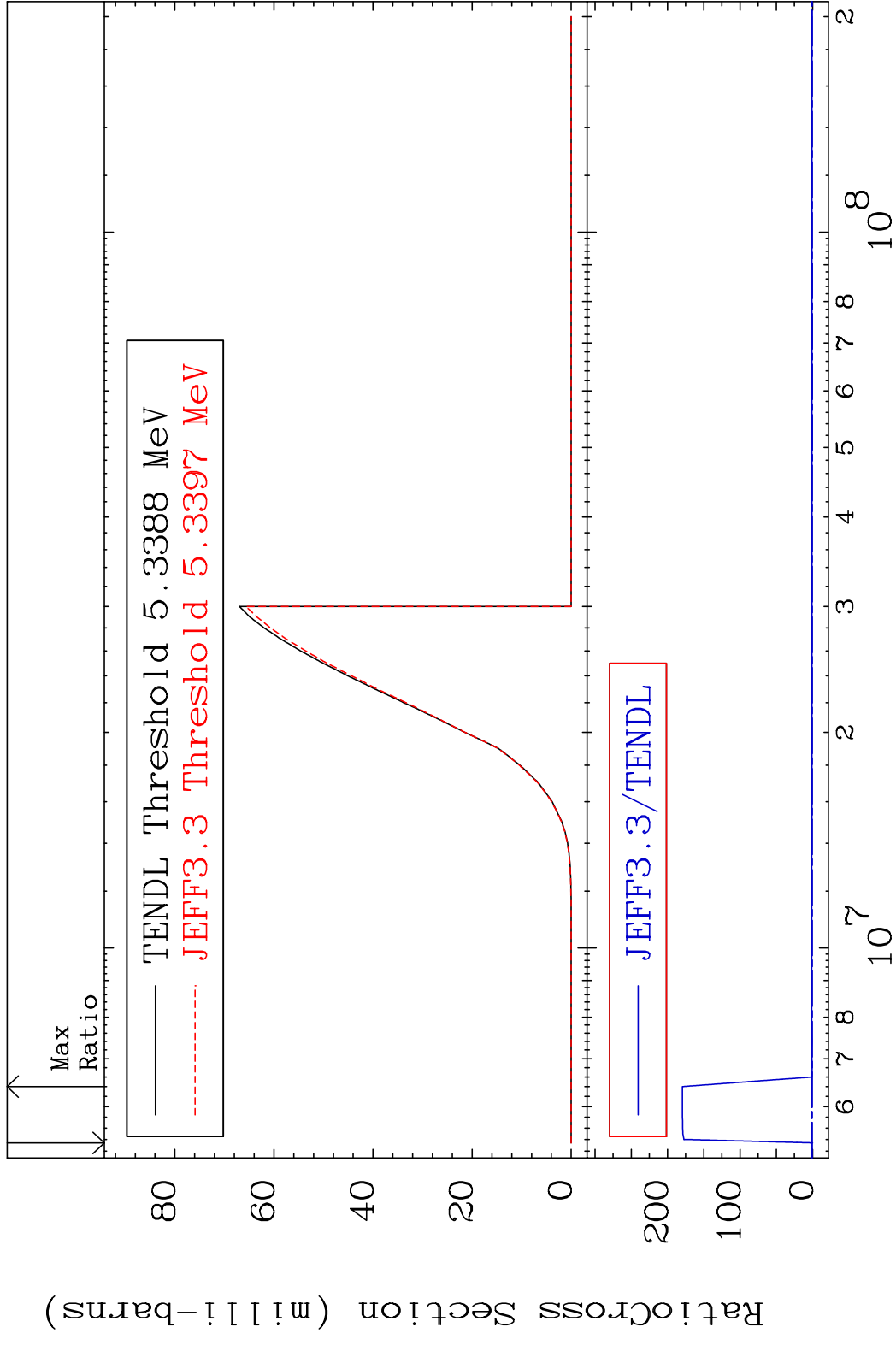


MAT 7122

71-Lu-174

(n, n') p

Cross Section -100.0 To 9999. %

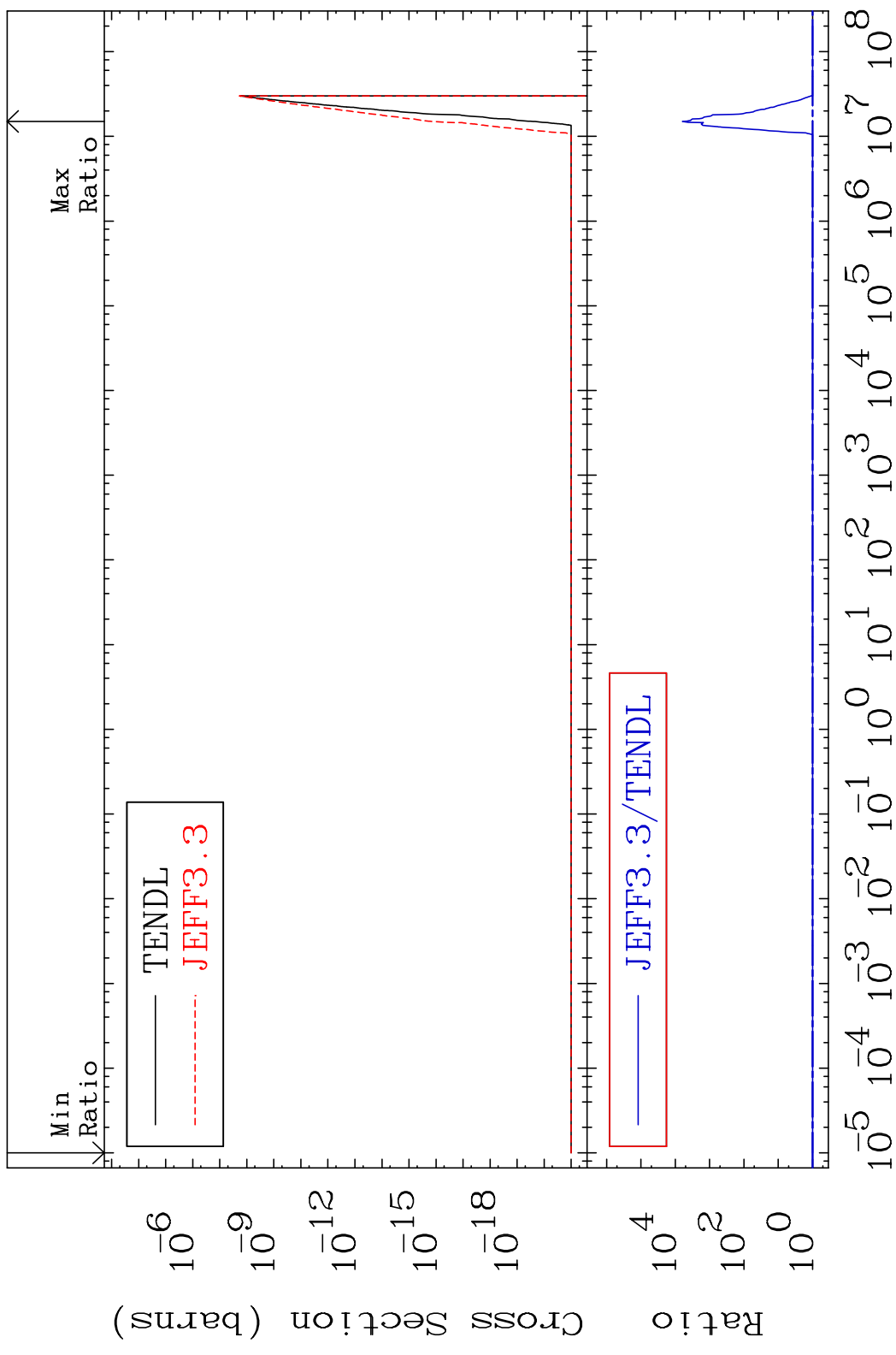


MAT 7122

(n, n') 2α

71-Lu-174

Cross Section 0.000 To 9999. %

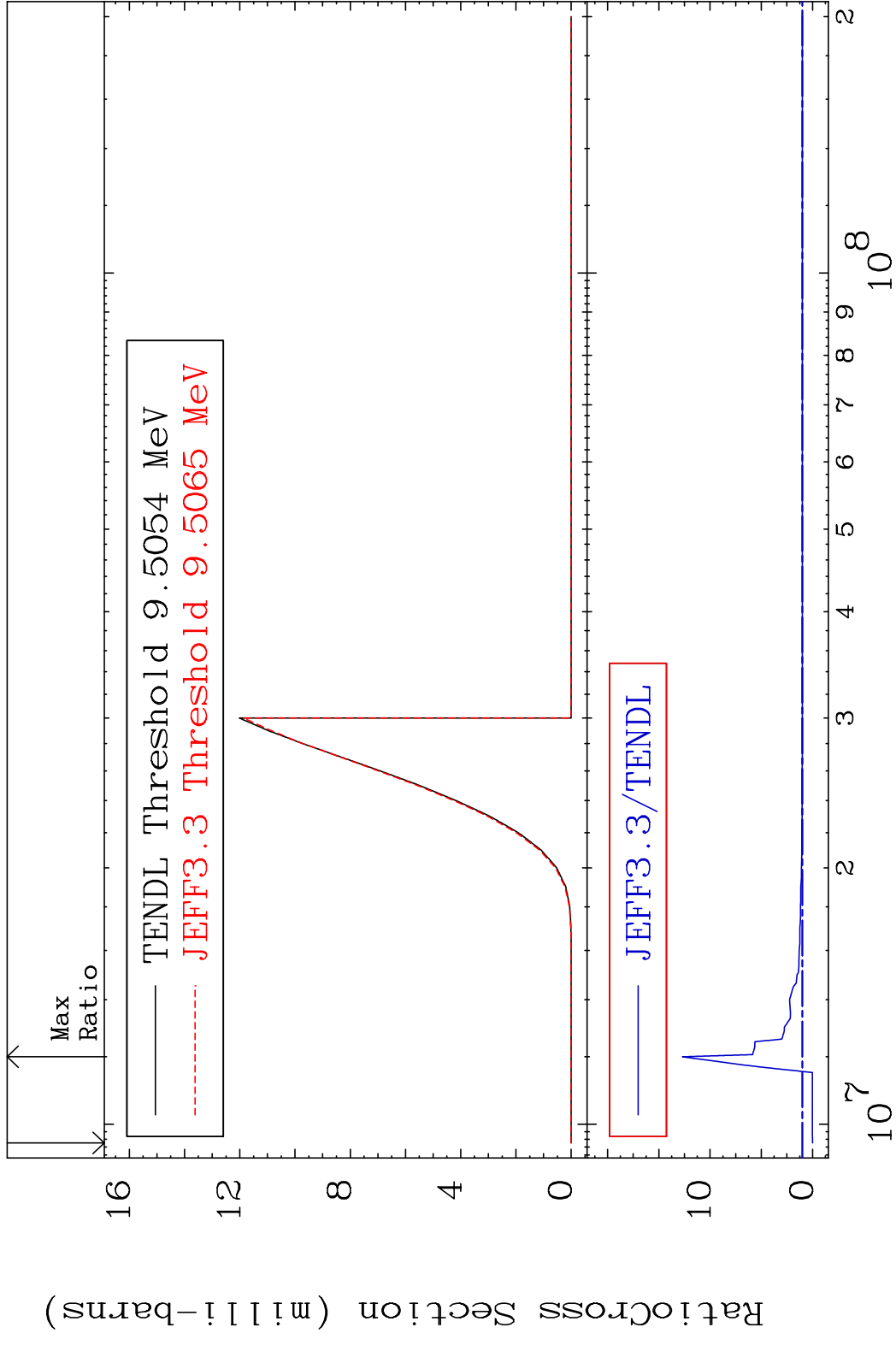


MAT 7122

(n, n') d

71-Lu-174

Cross Section -100.0 To 1171. %

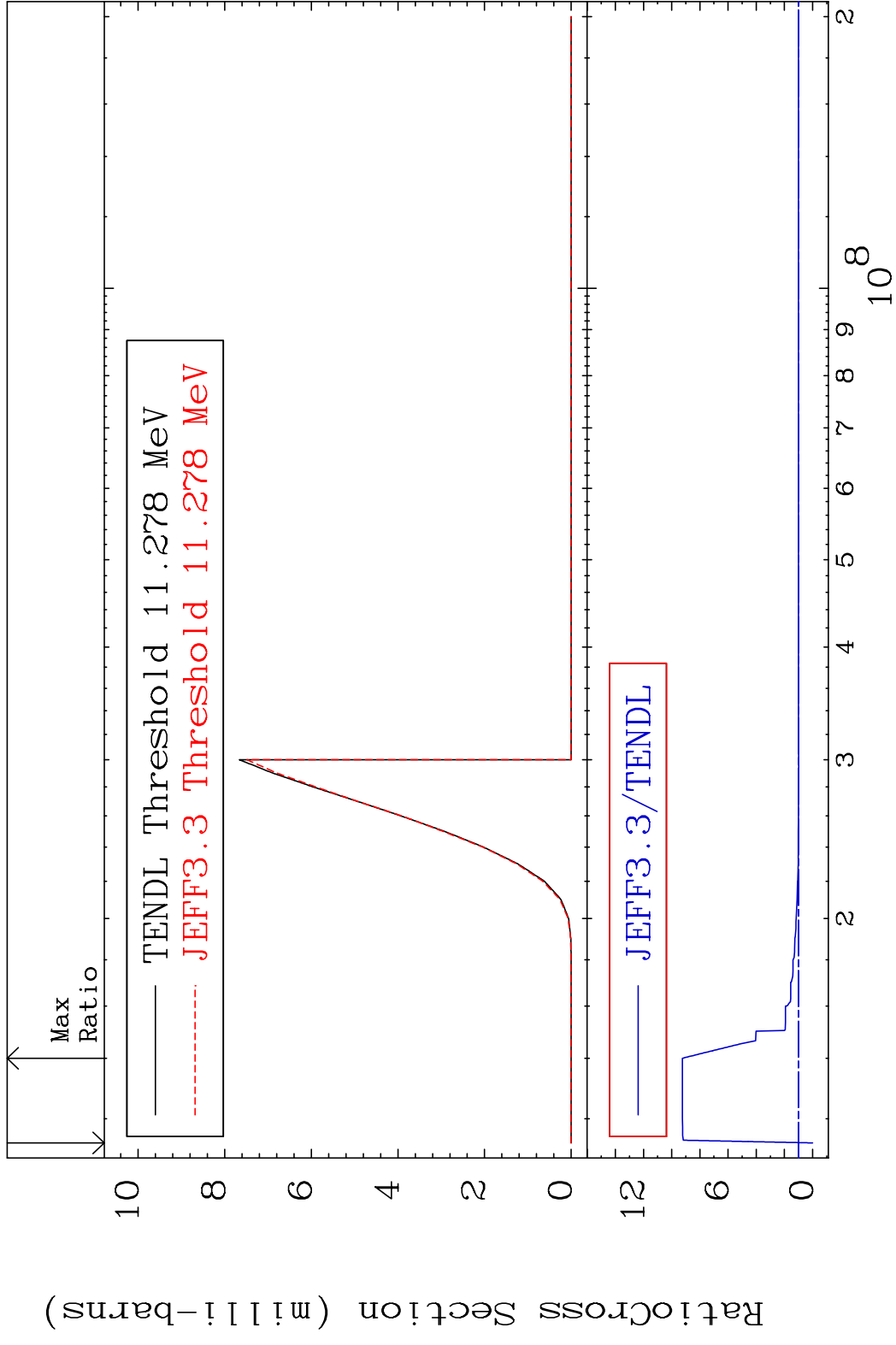


12

Incident Energy (eV)

71-Lu-174

MAT 7122 (n, n') t 71-Lu-174
 Cross Section -100.0 To 824.5 %

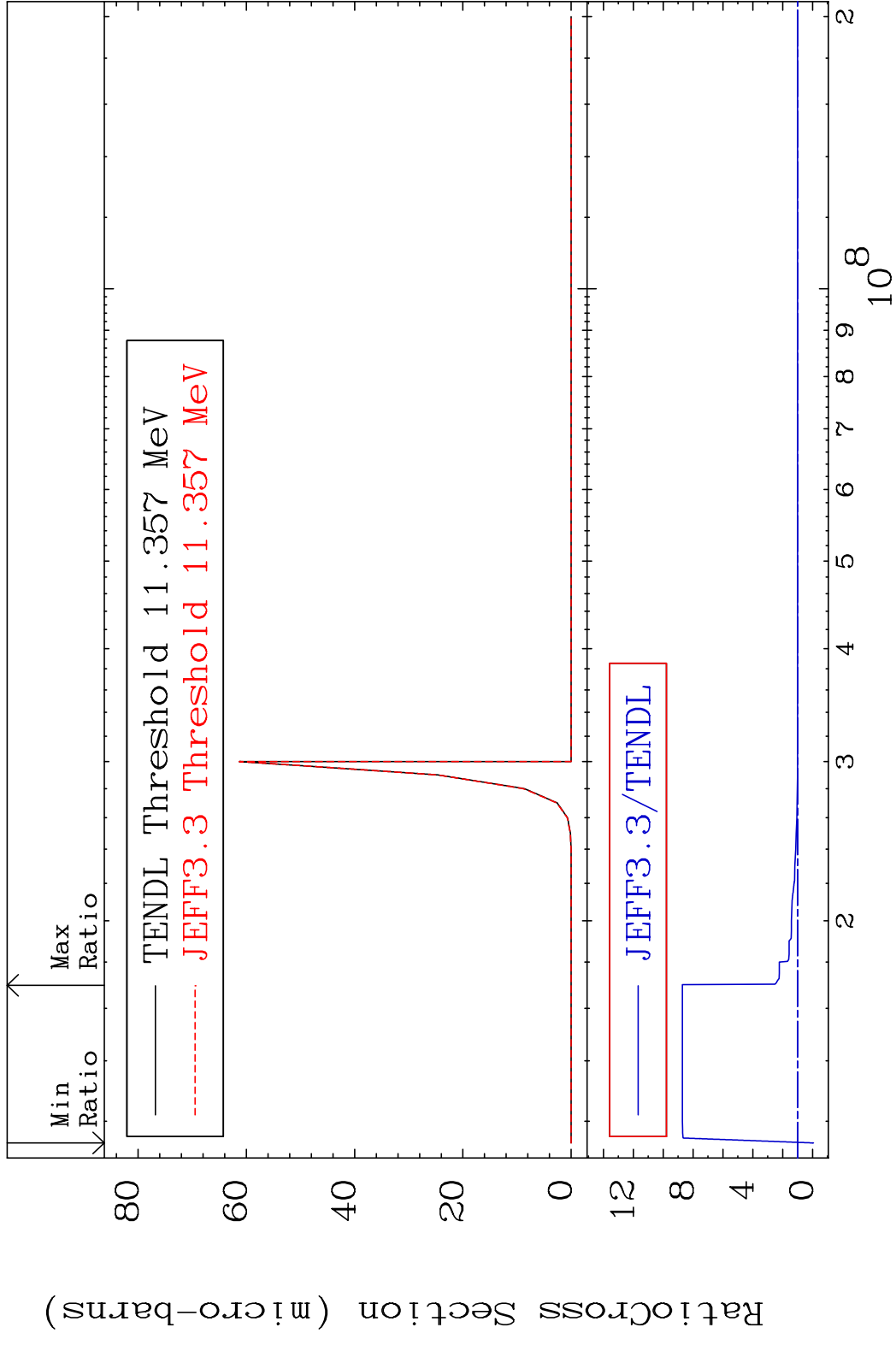


MAT 7122

(n,n') He-3

71-Lu-174

Cross Section -100.0 To 771.6 %

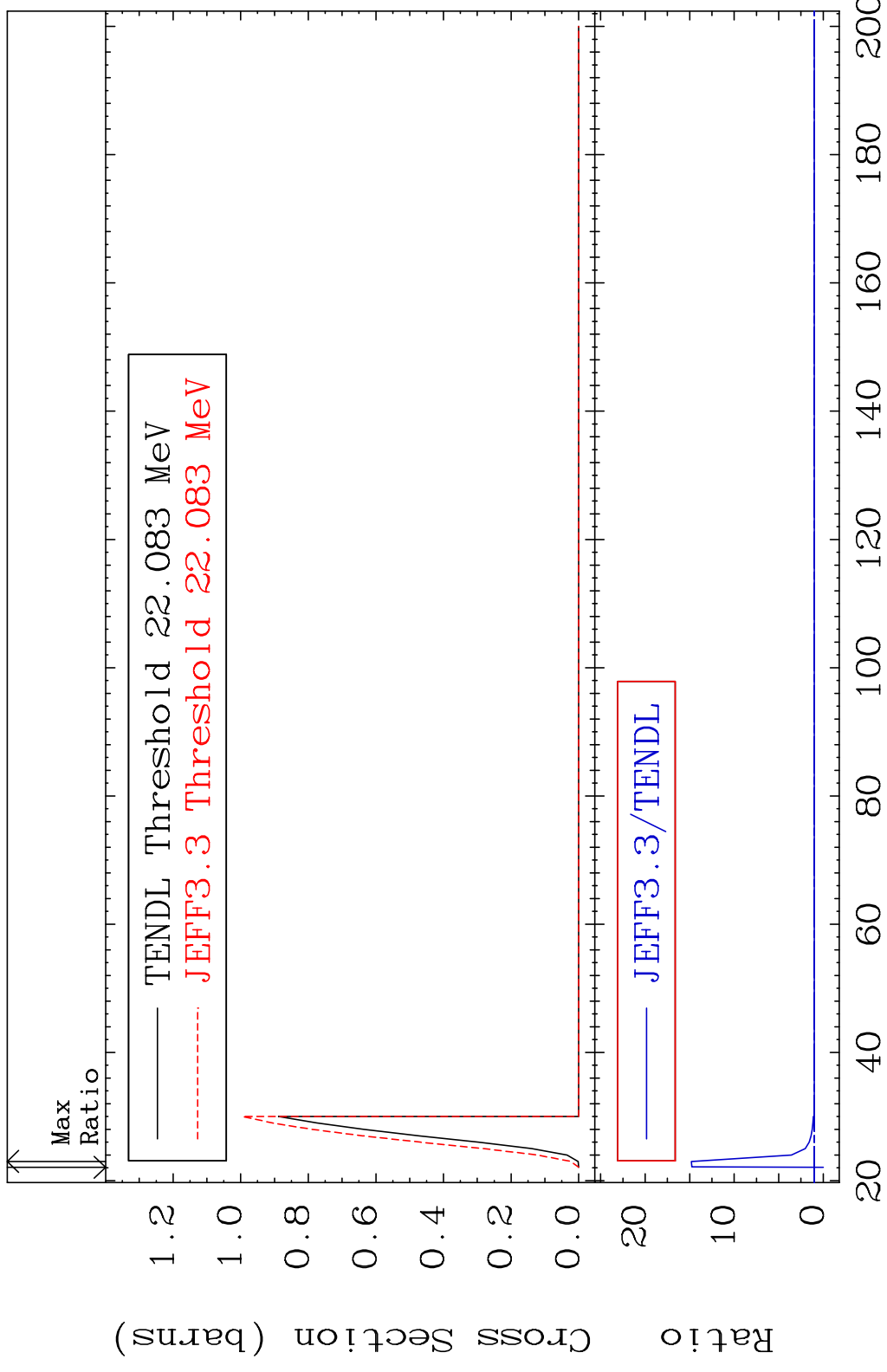


MAT 7122

(n,4n)

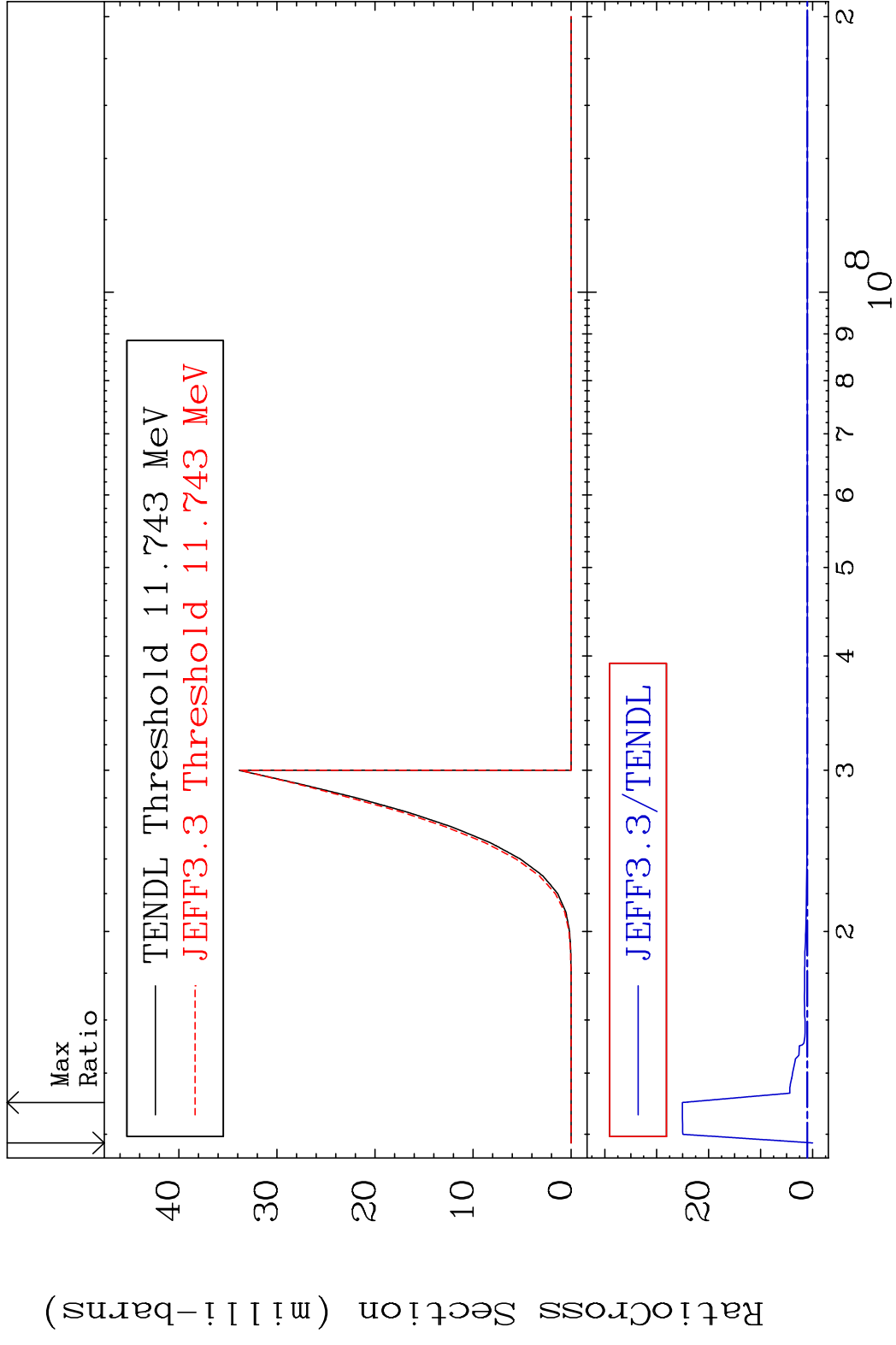
71-Lu-174

Cross Section -100.0 To 1381. %



MAT 7122

(n,2n) p 71-Lu-174
Cross Section -100.0 To 2406. %

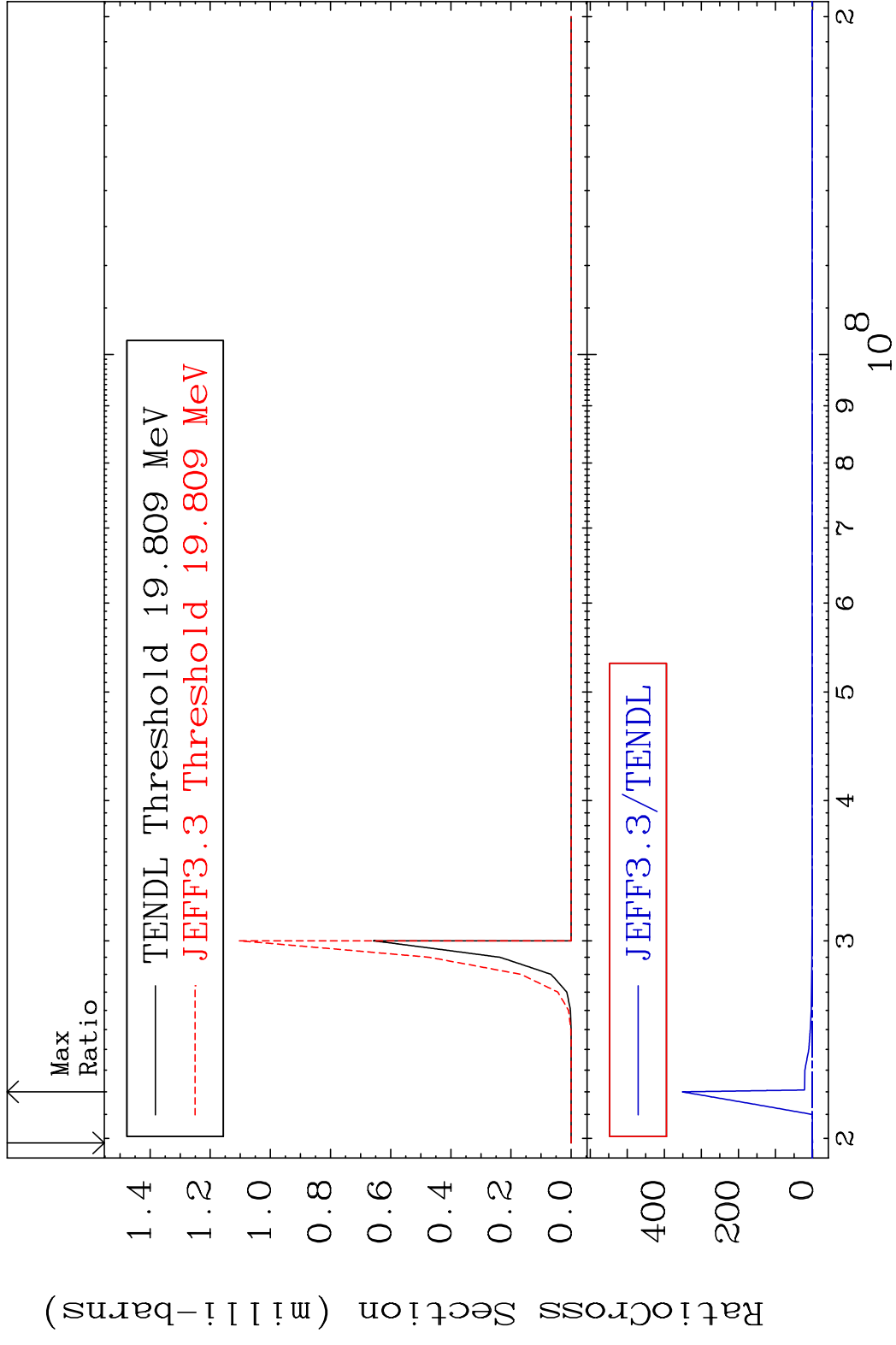


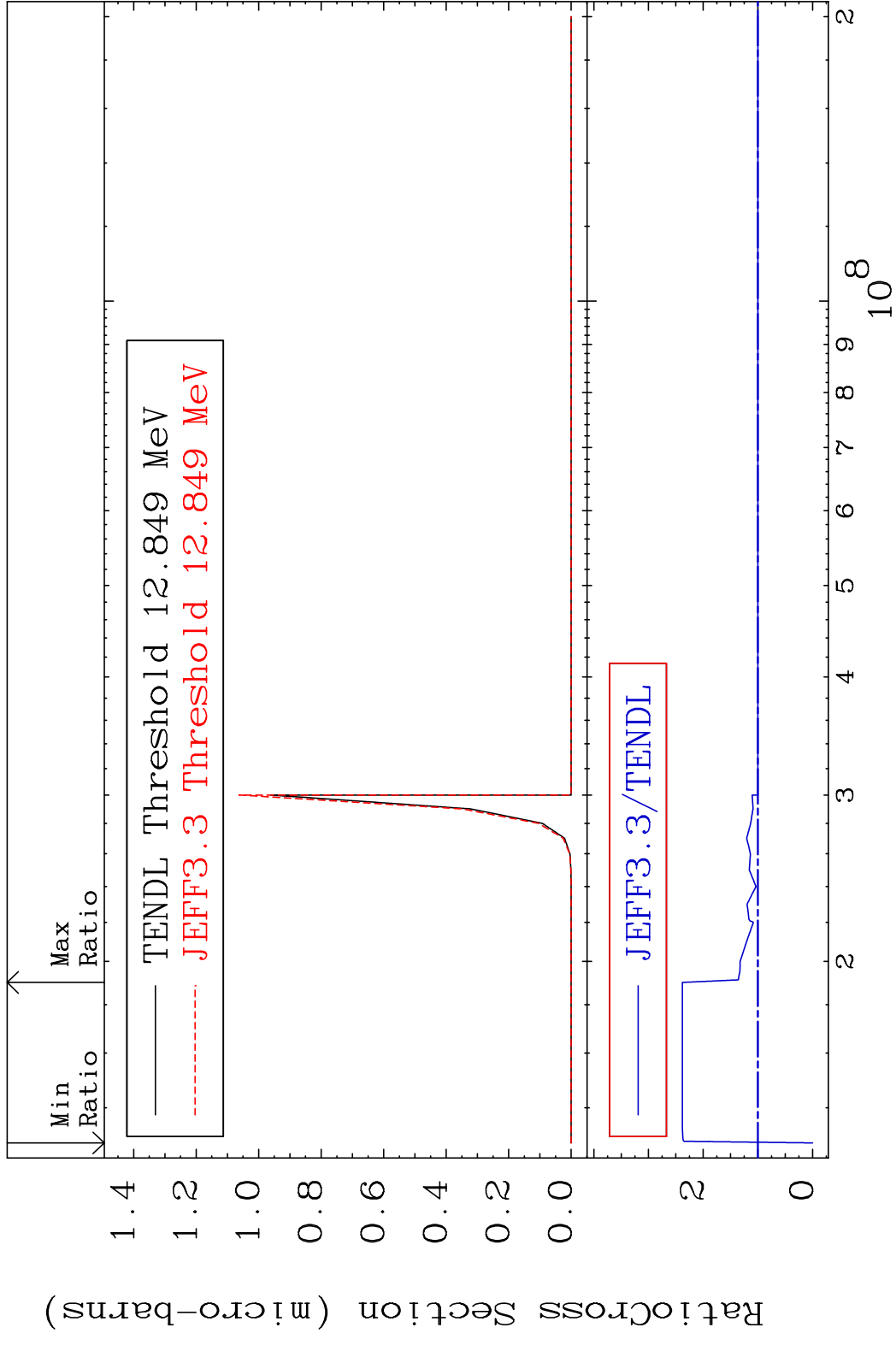
MAT 7122

(n,3n) p

71-Lu-174

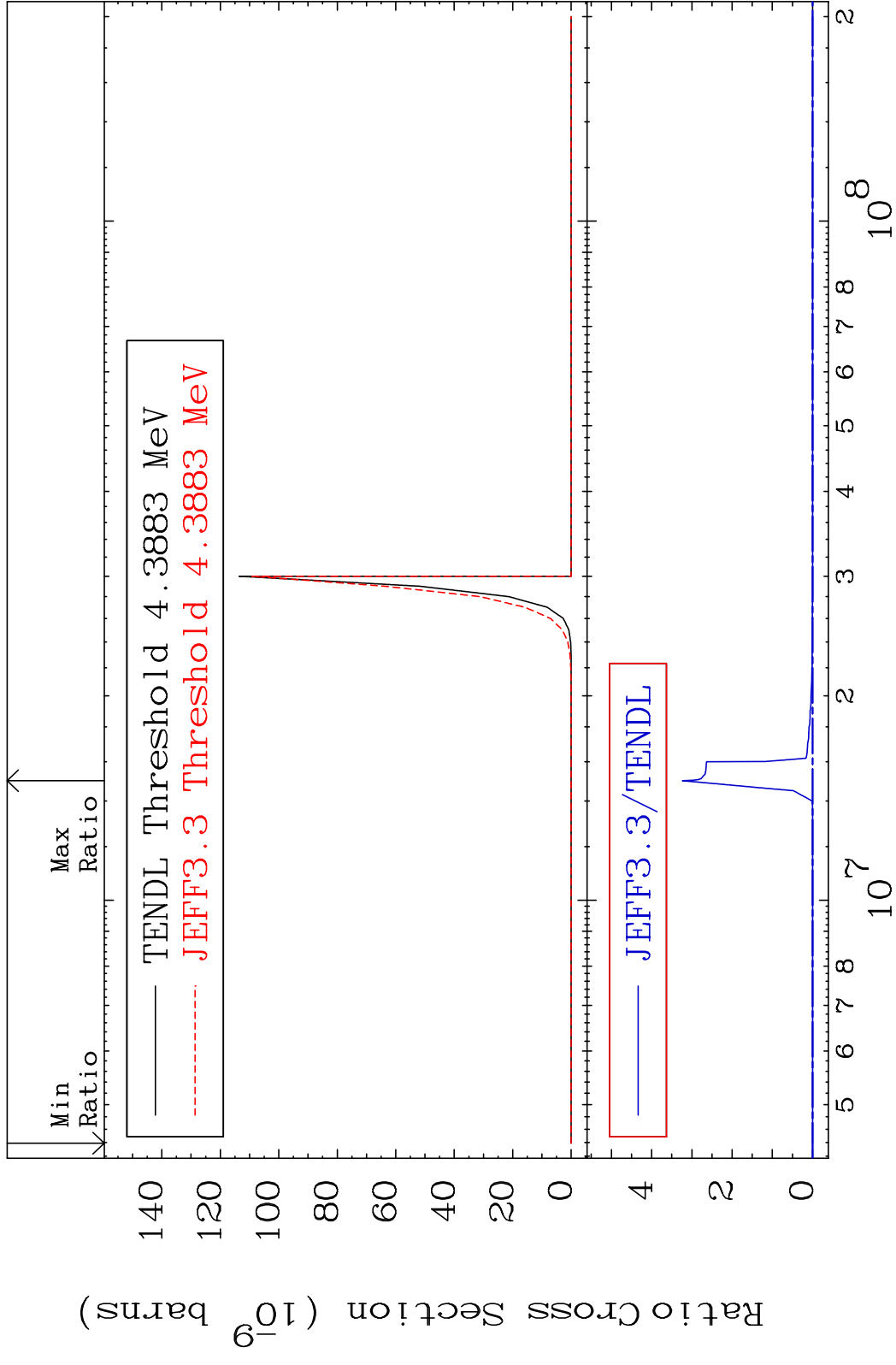
Cross Section -100.0 To 9999. %



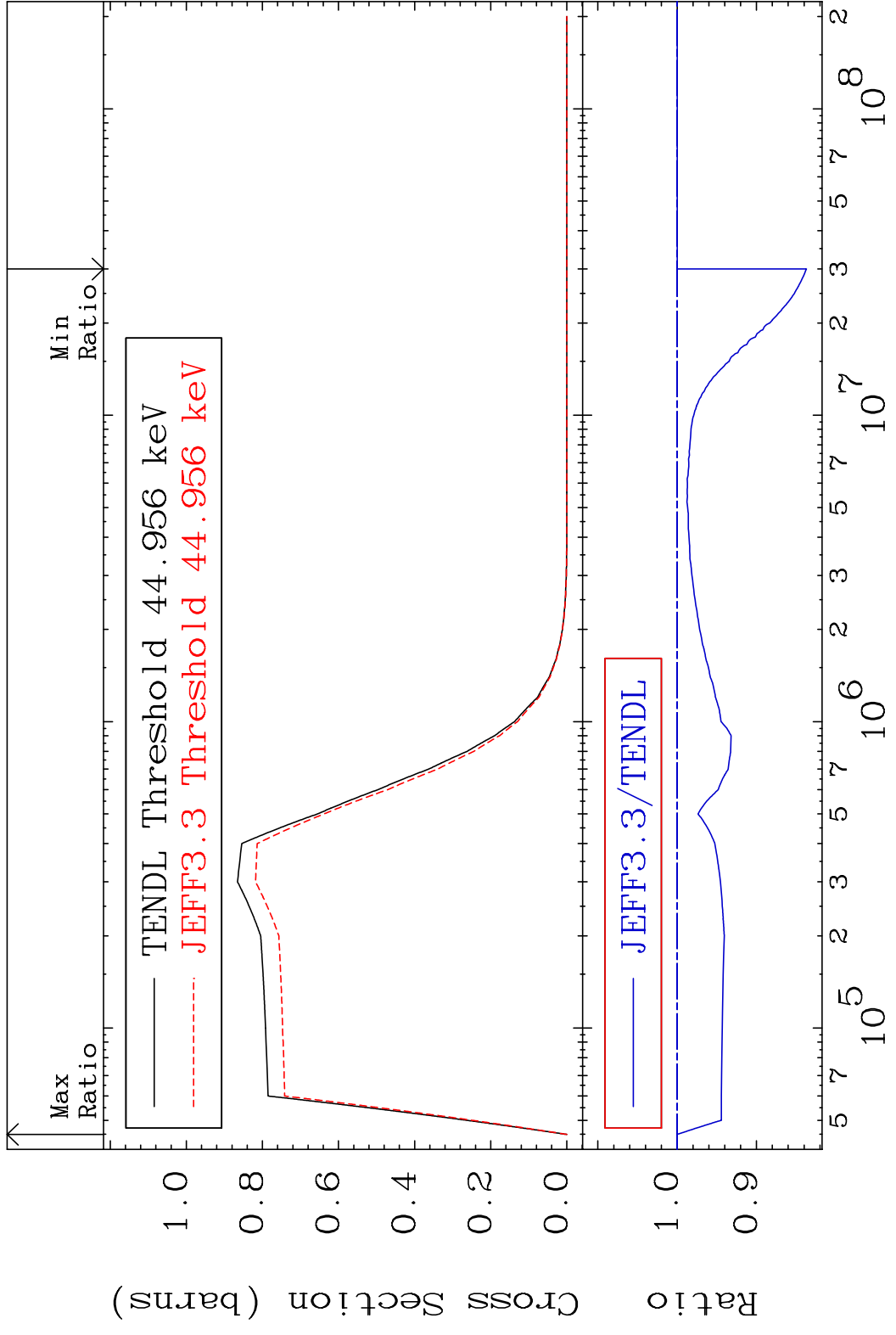


MAT 7122

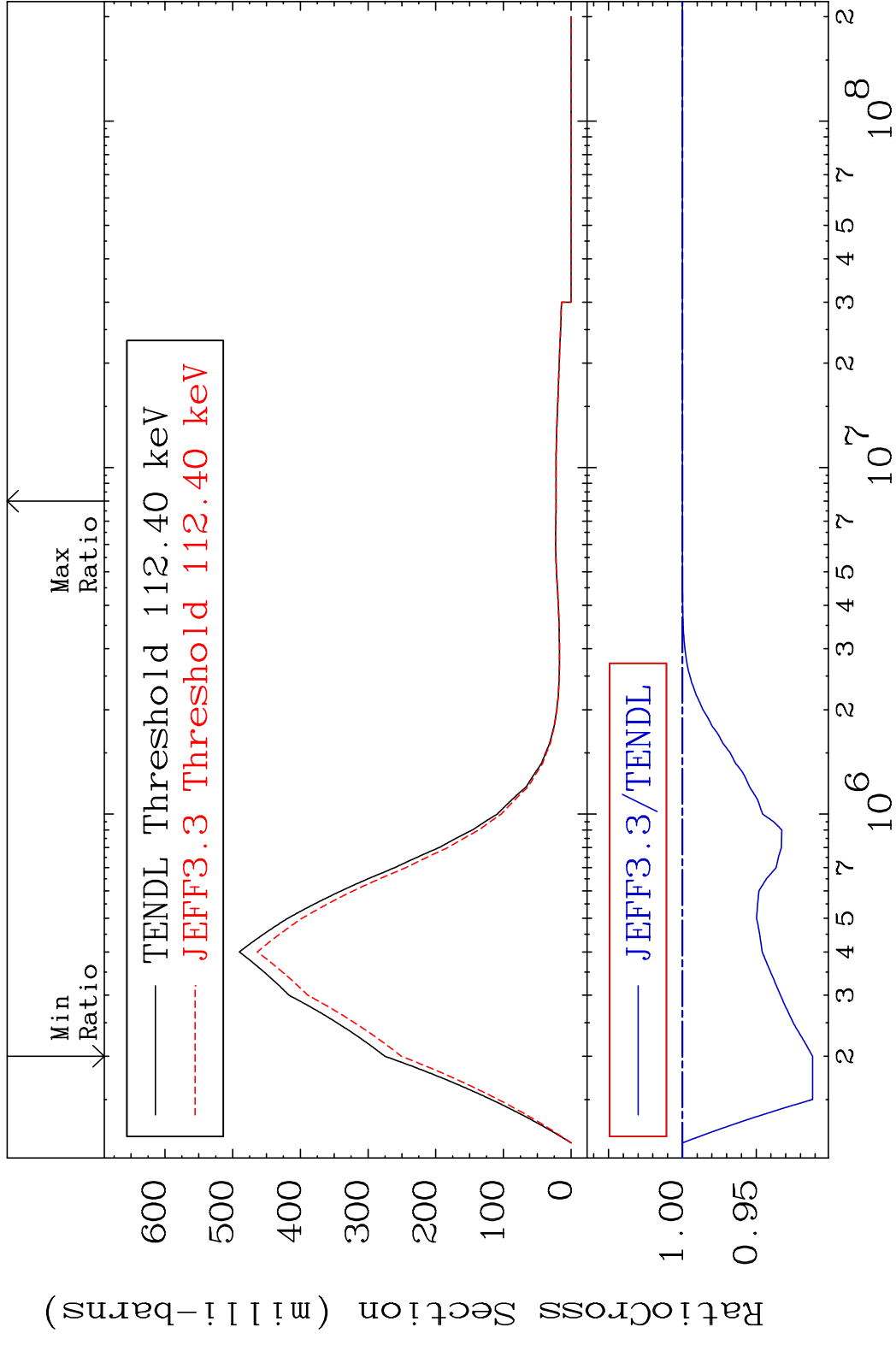
(n,n') p α 71-Lu-174
Cross Section -100.0 To 9999. %



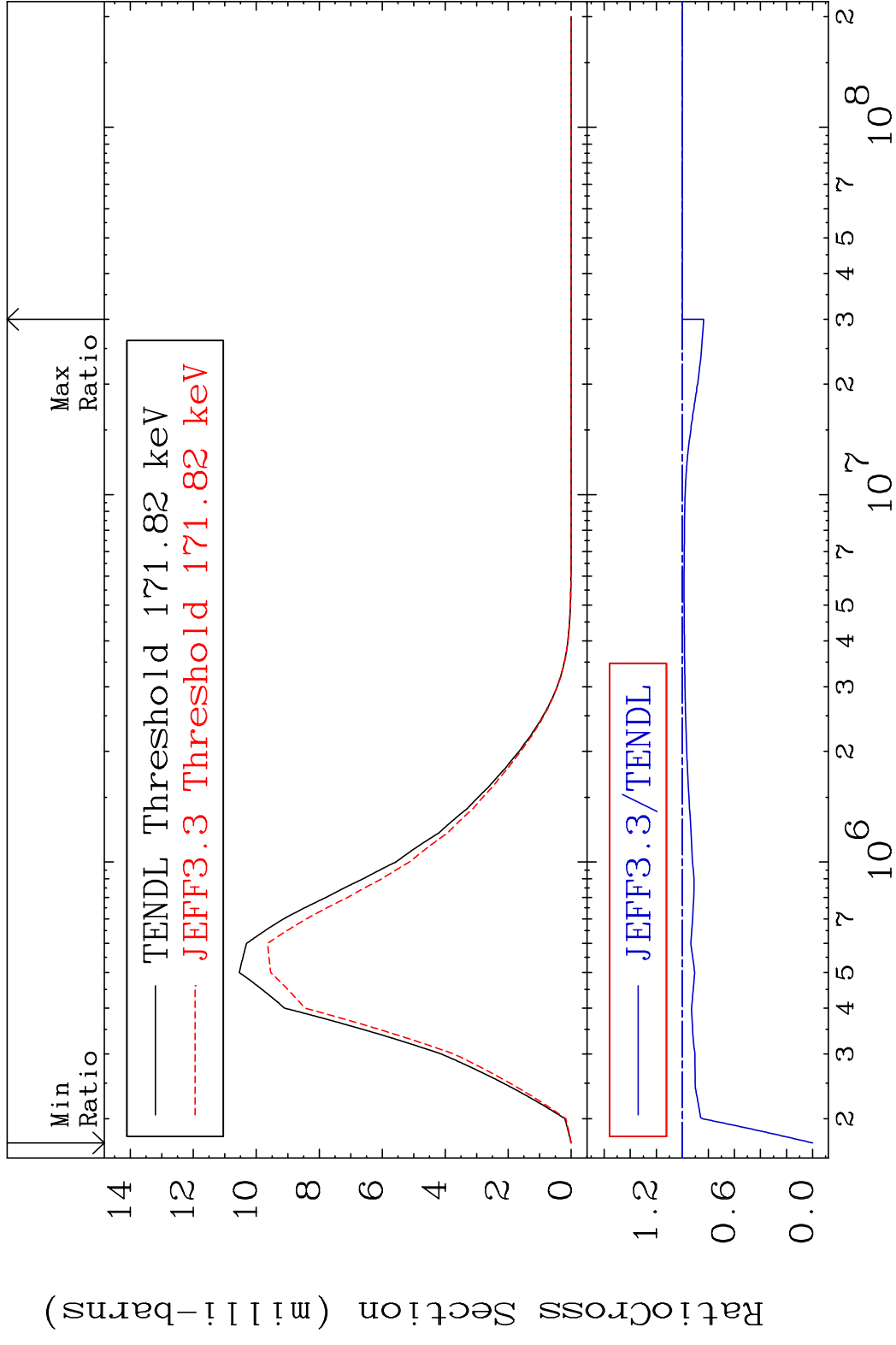
MAT 7122 MT= 51 (n, n') Level 71-Lu-174
 Cross Section -16.29 To 0.000 %



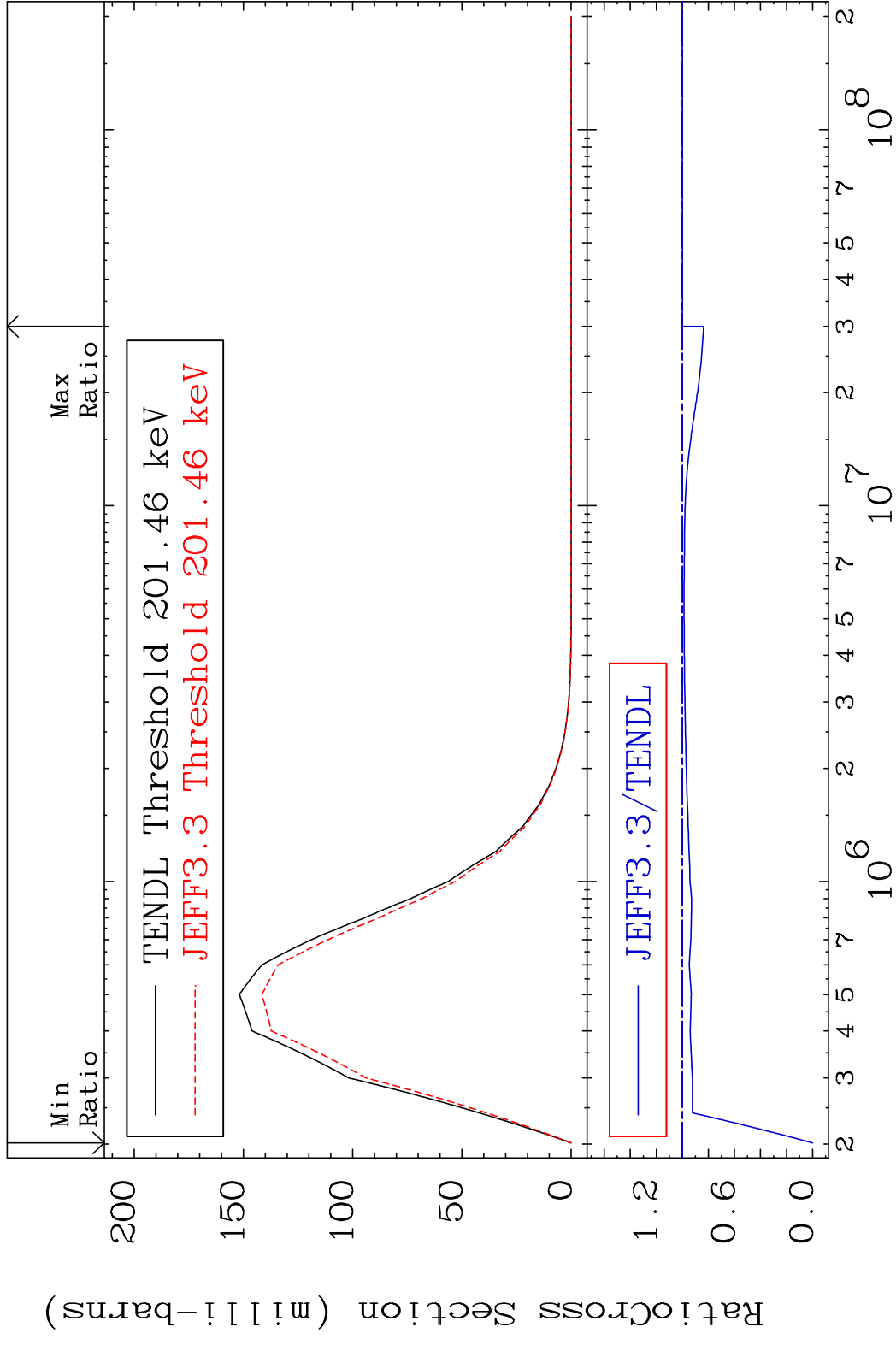
MAT 7122 MT= 52 (n, n') Level 71-Lu-174
 Cross Section -8.819 To 0.000 %



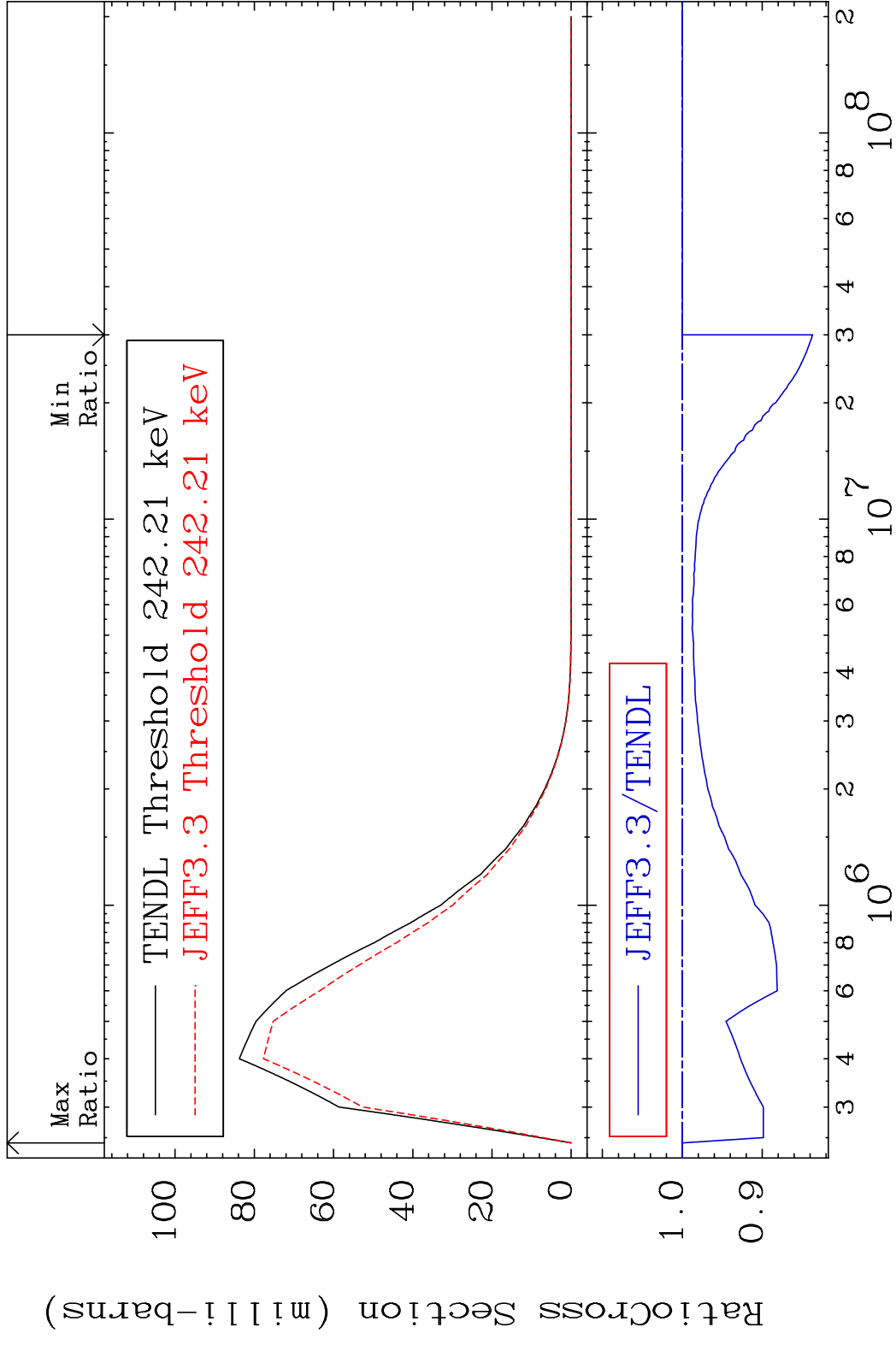
MAT 7122 MT= 53 (n, n') Level 71-Lu-174
 Cross Section -100.0 To 0.000 %



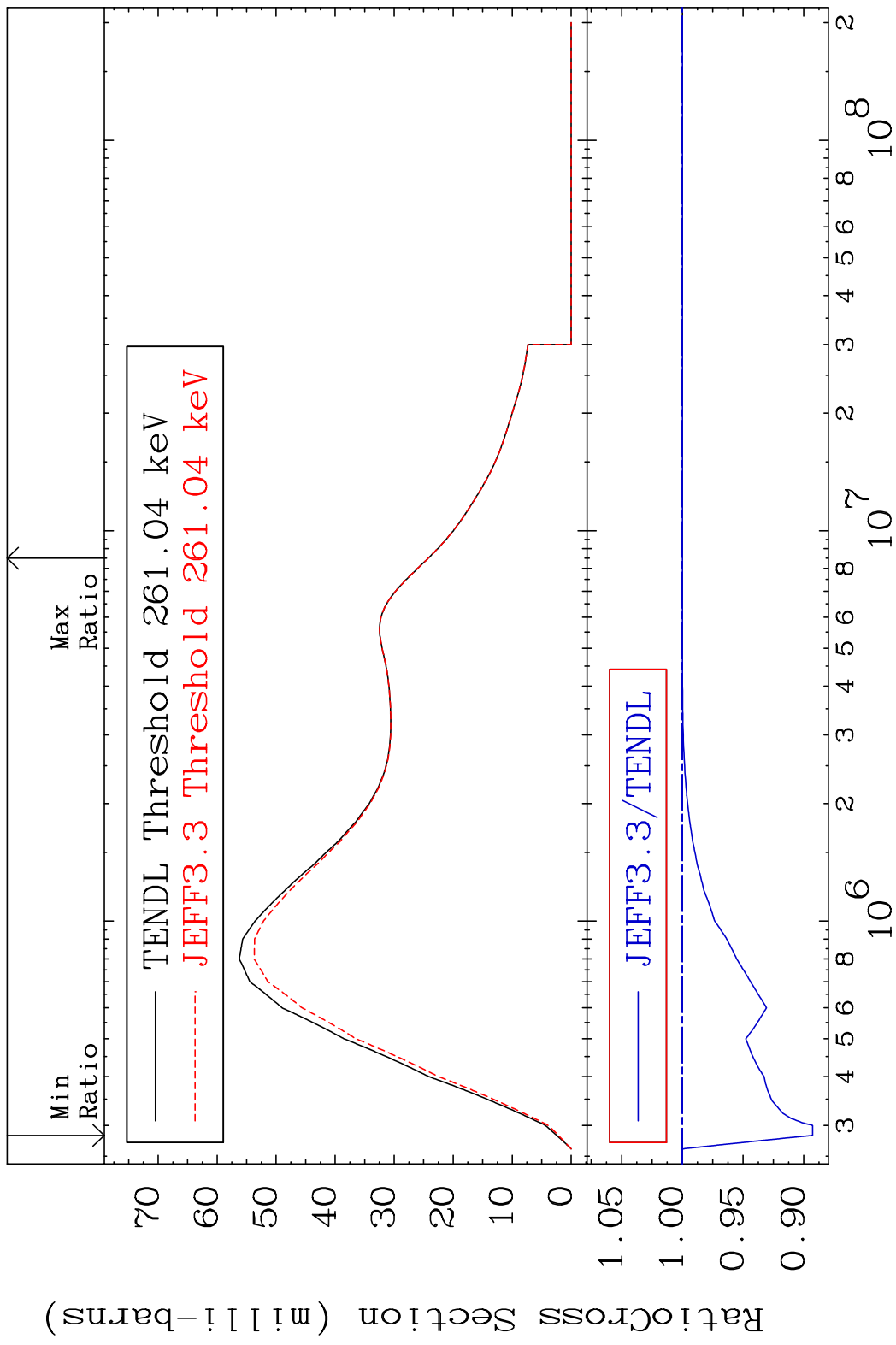
MAT 7122 MT= 54 (n,n') Level 71-Lu-174
 Cross Section -100.0 To 0.000 %



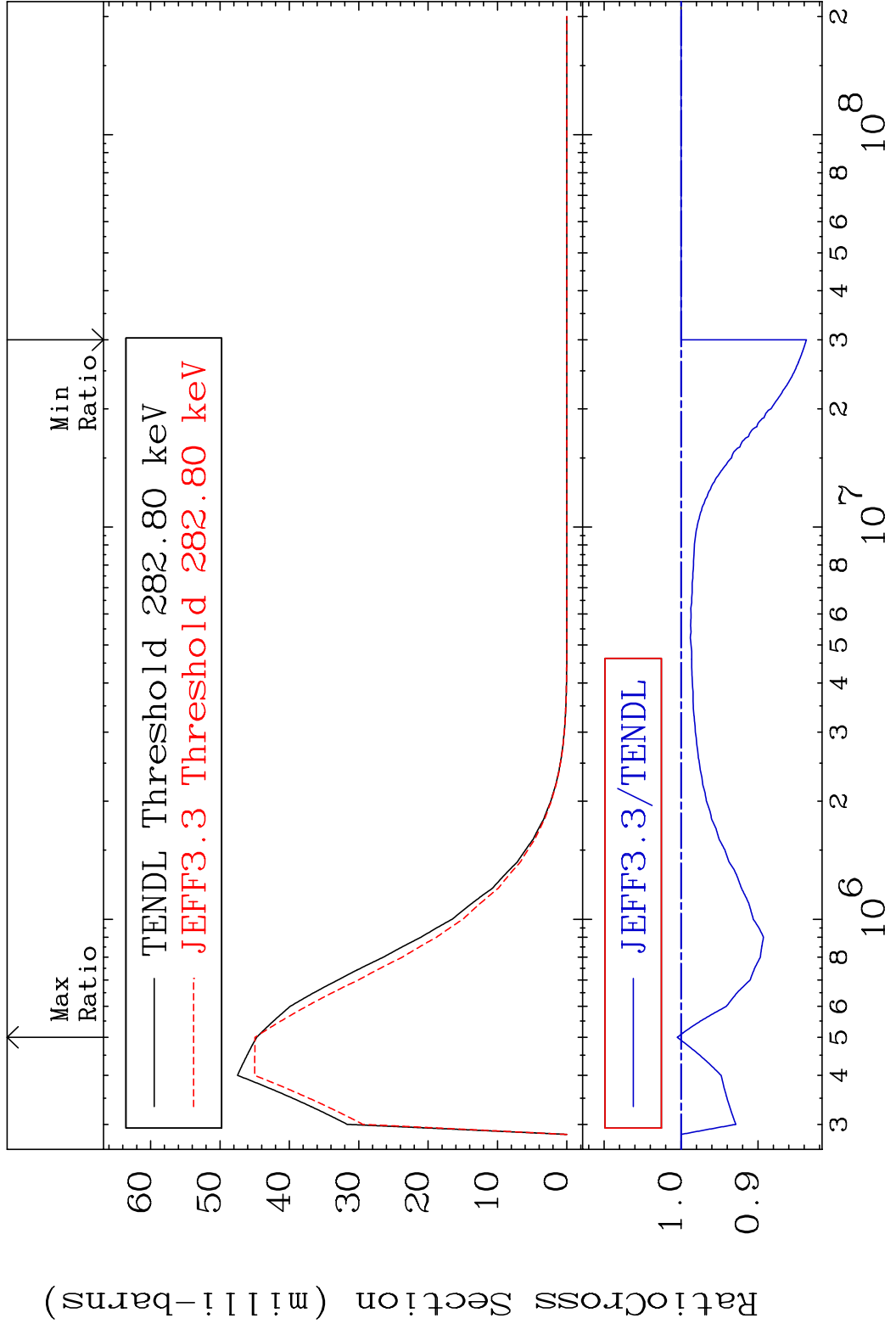
MAT 7122 MT= 55 (n,n') Level 71-Lu-174
 Cross Section -16.30 To 0.000 %



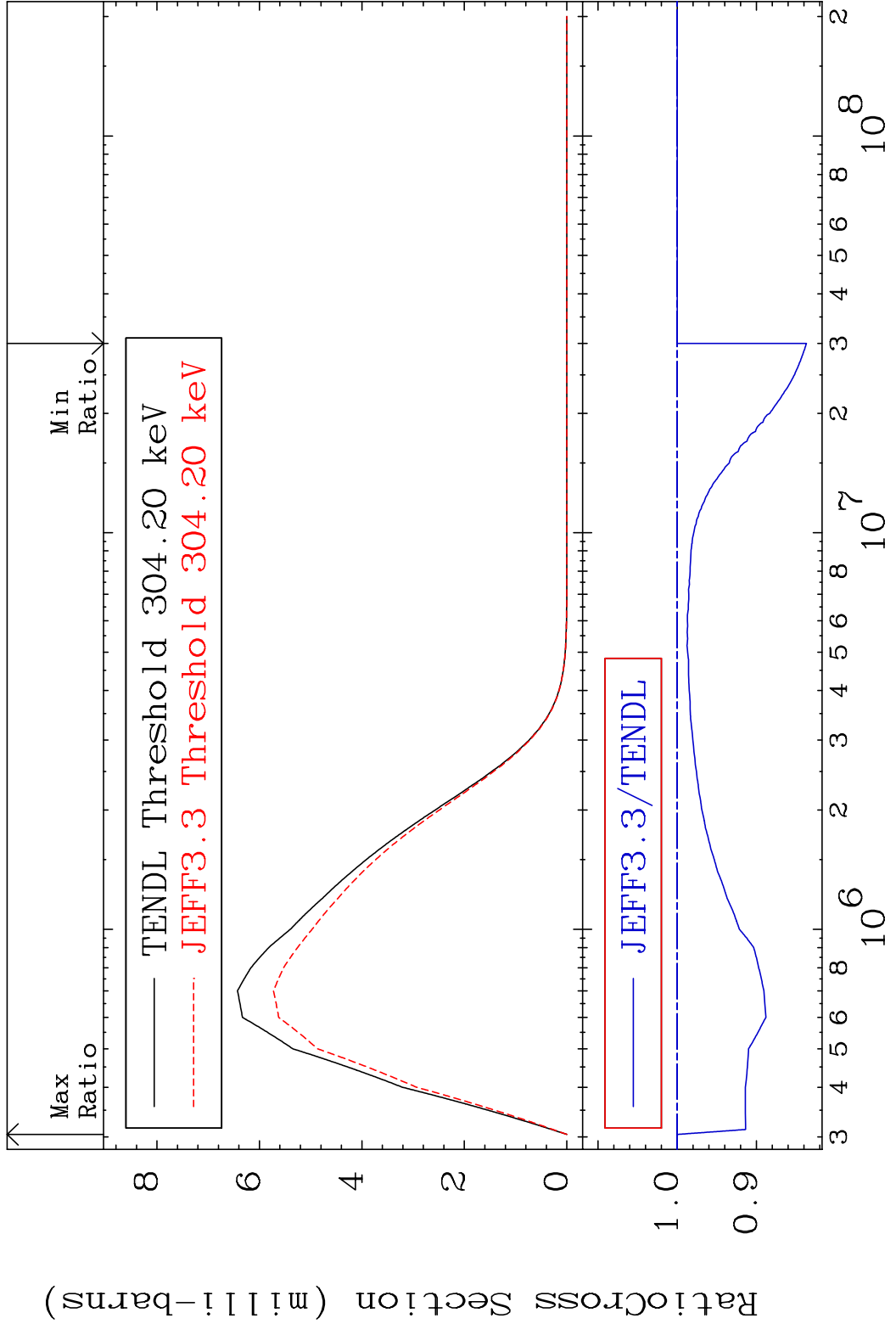
MAT 7122 MT= 56 (n, n') Level 71-Lu-174
 Cross Section -10.72 To 0.000 %



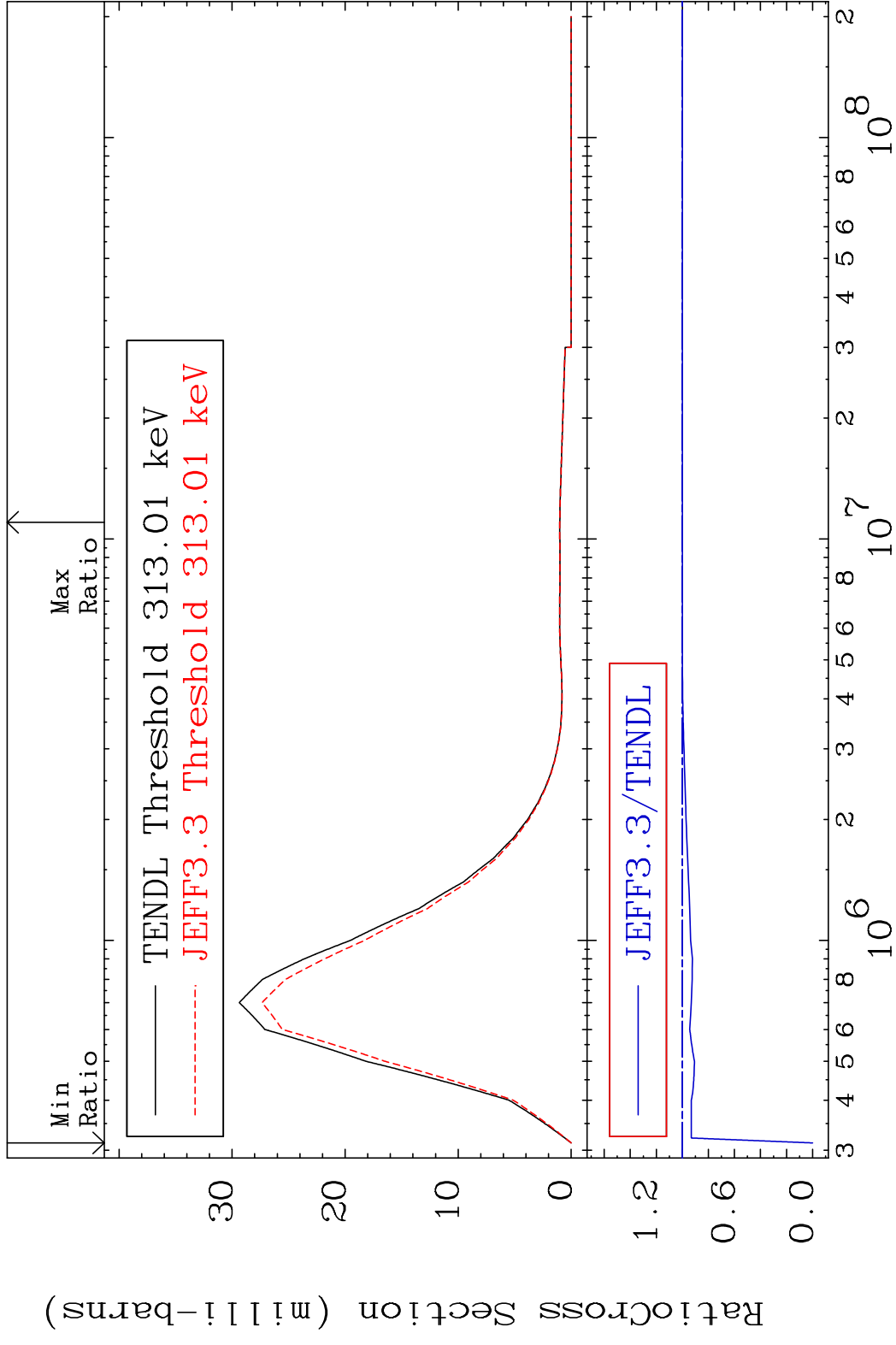
MAT 7122 MT= 57 (n,n') Level 71-Lu-174
 Cross Section -16.29 To 0.506 %



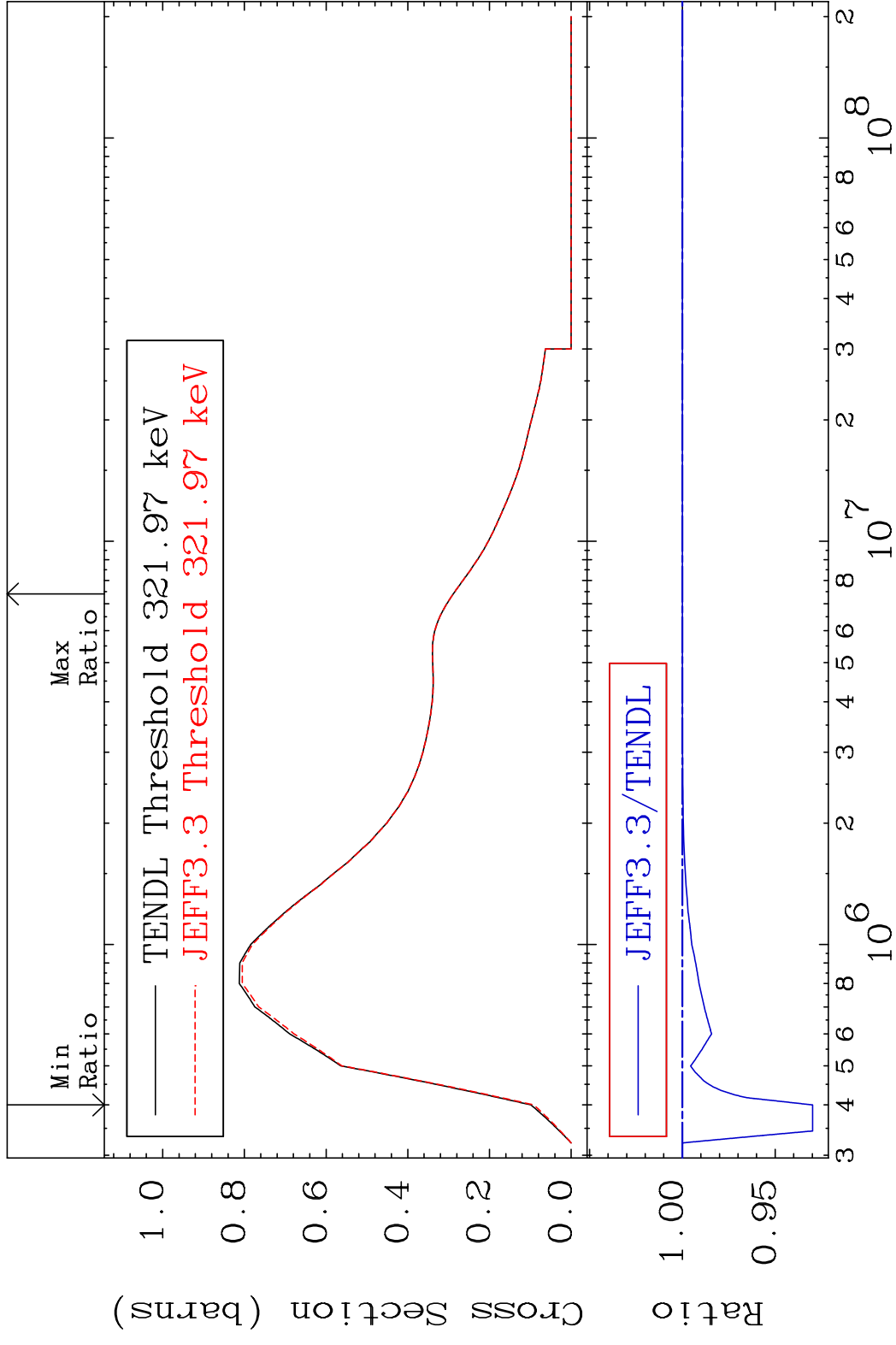
MAT 7122 MT= 58 (n, n') Level 71-Lu-174
 Cross Section -16.30 To 0.000 %



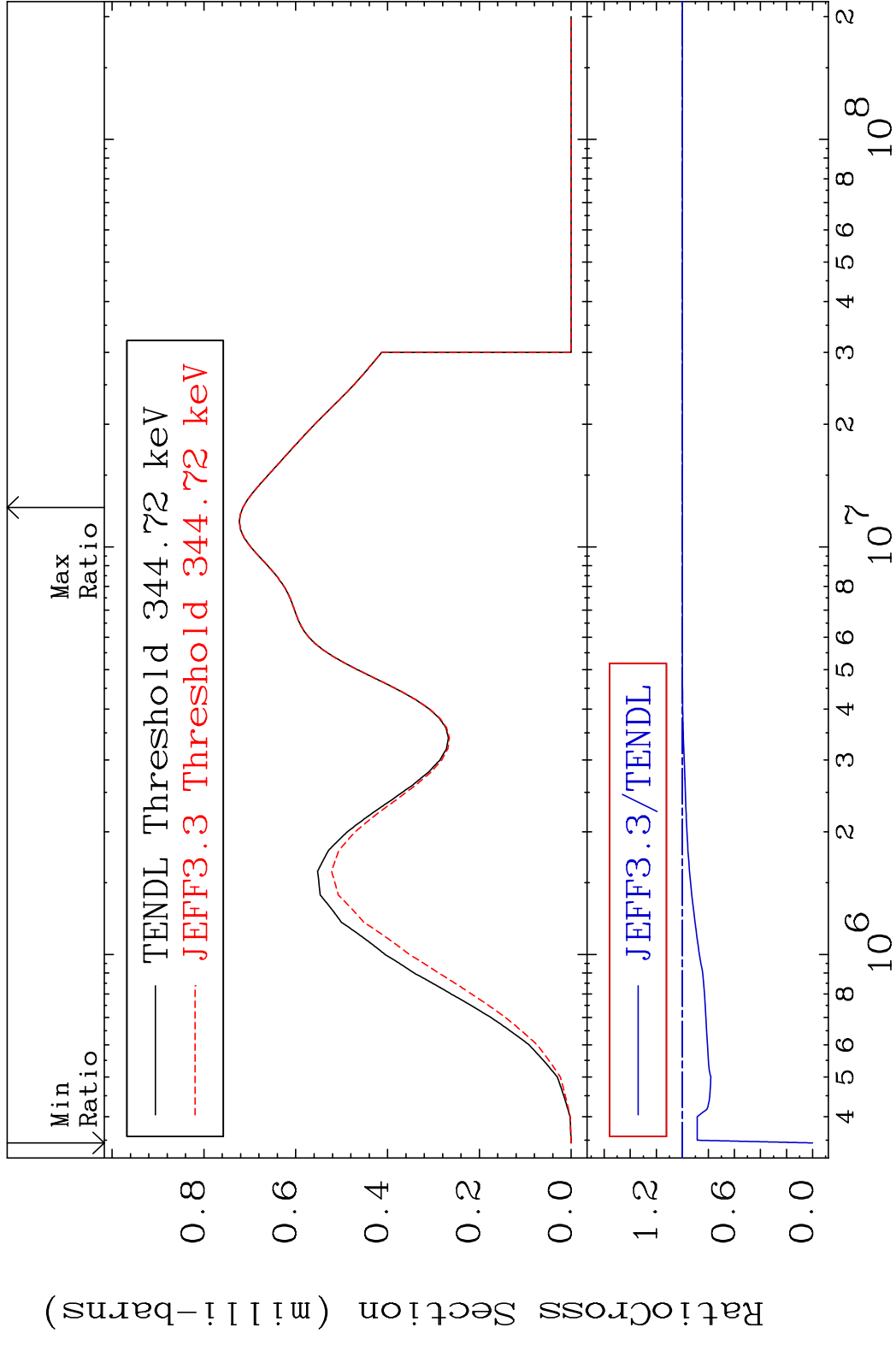
MAT 7122 MT= 59 (n, n') Level 71-Lu-174
 Cross Section -100.0 To 0.000 %



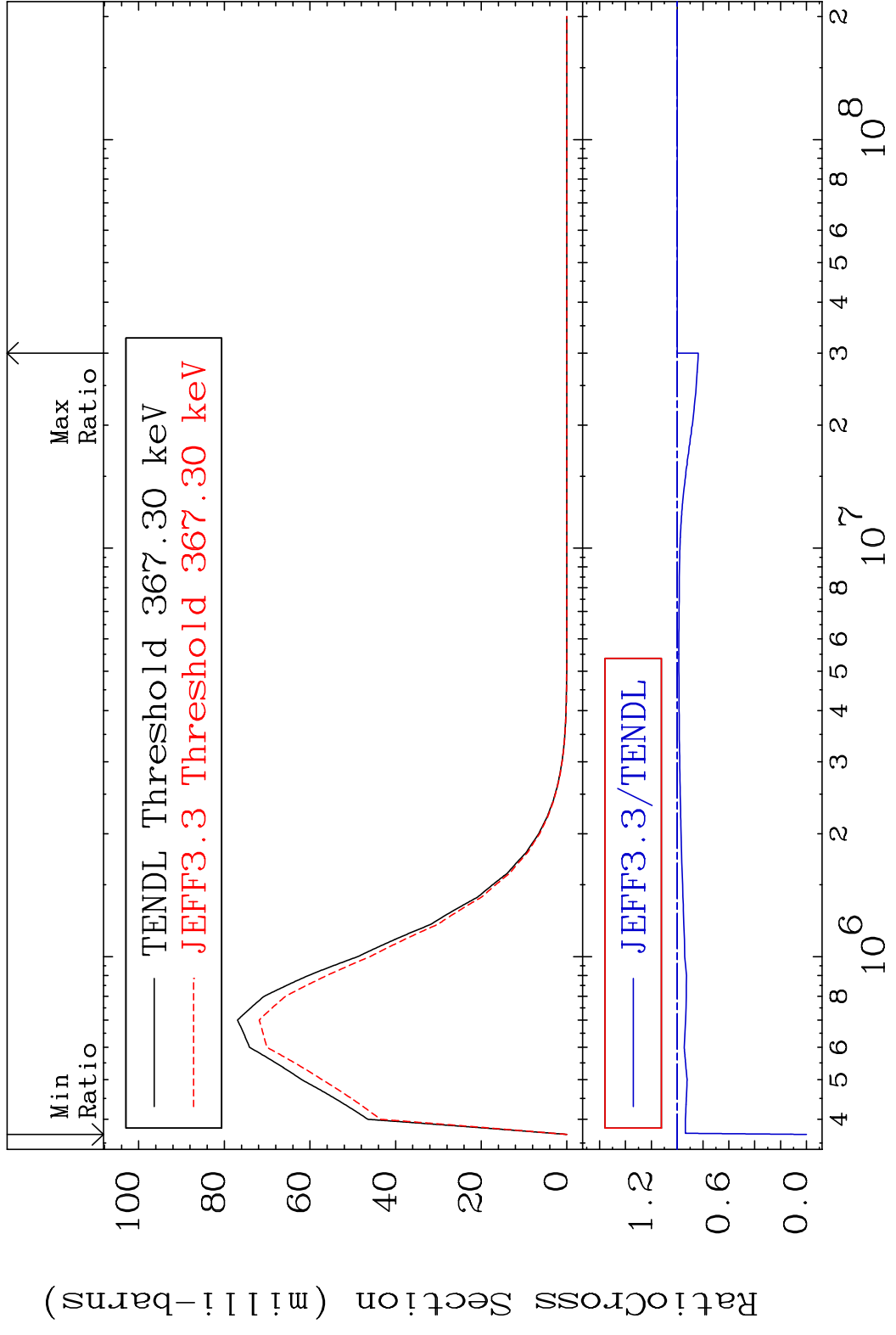
MAT 7122 MT= 60 (n, n') Level 71-Lu-174
 Cross Section -7.014 To 0.000 %



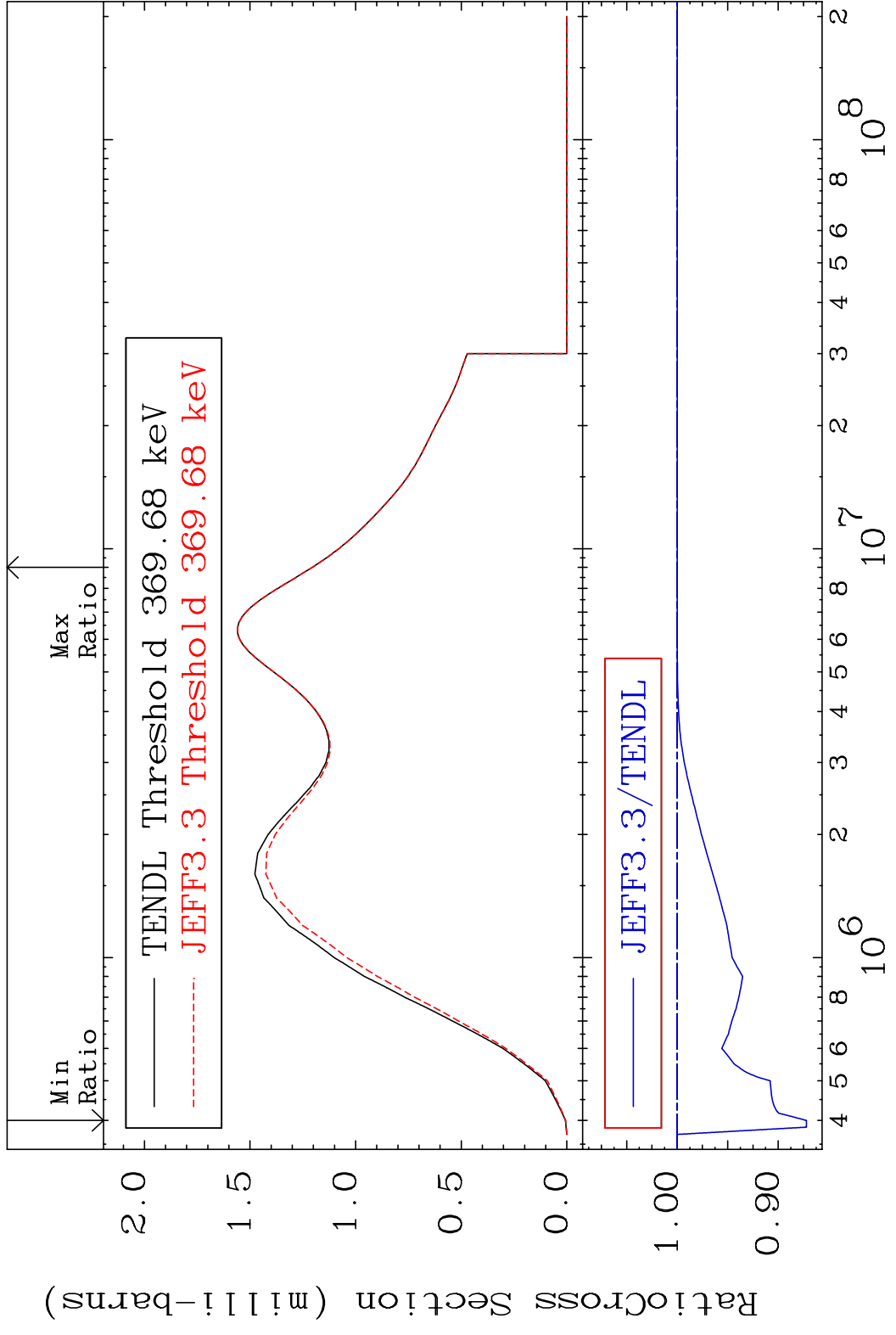
MAT 7122 MT= 61 (n, n') Level 71-Lu-174
 Cross Section -100.0 To 0.000 %



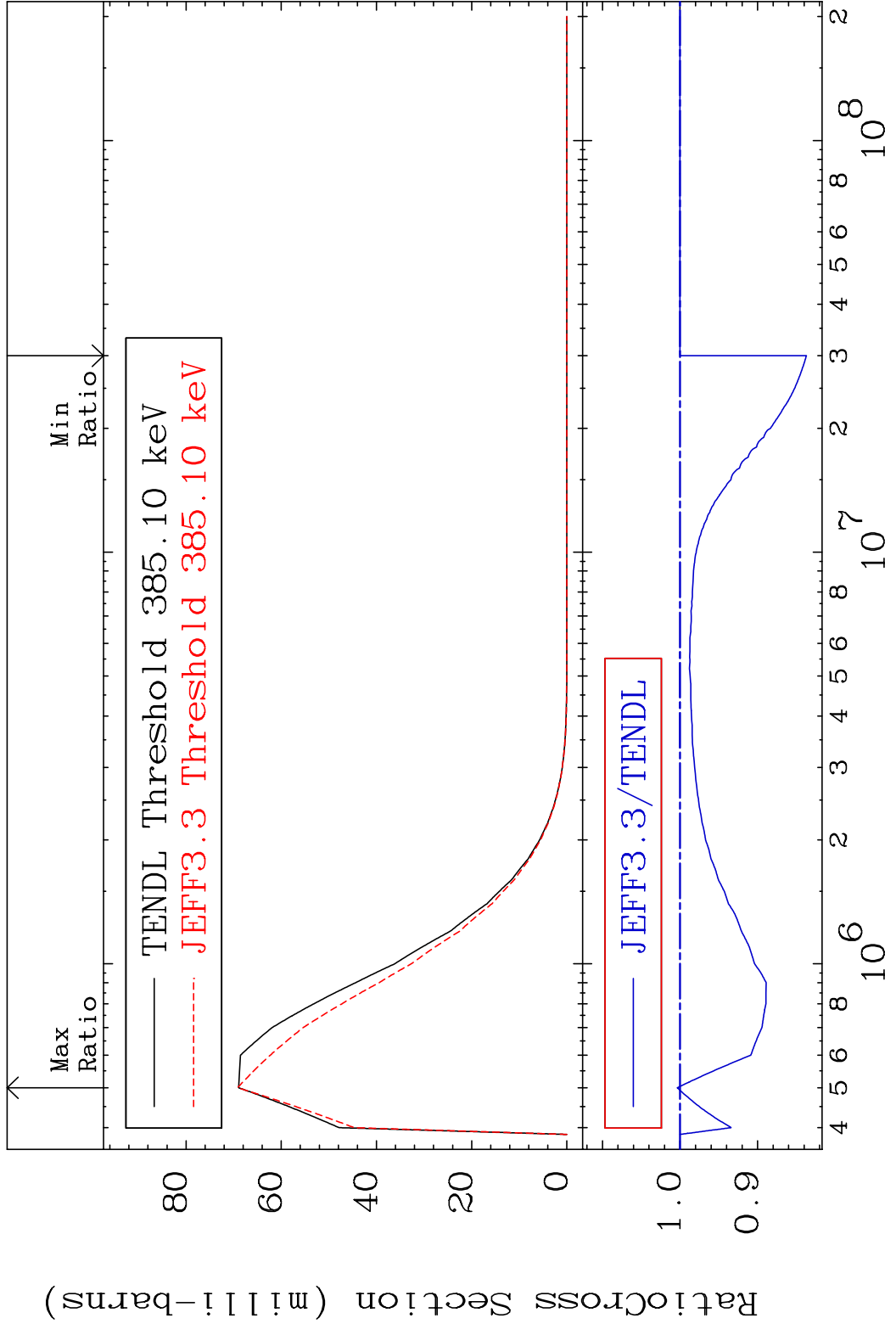
MAT 7122 MT= 62 (n, n') Level 71-Lu-174
 Cross Section -100.0 To 0.000 %



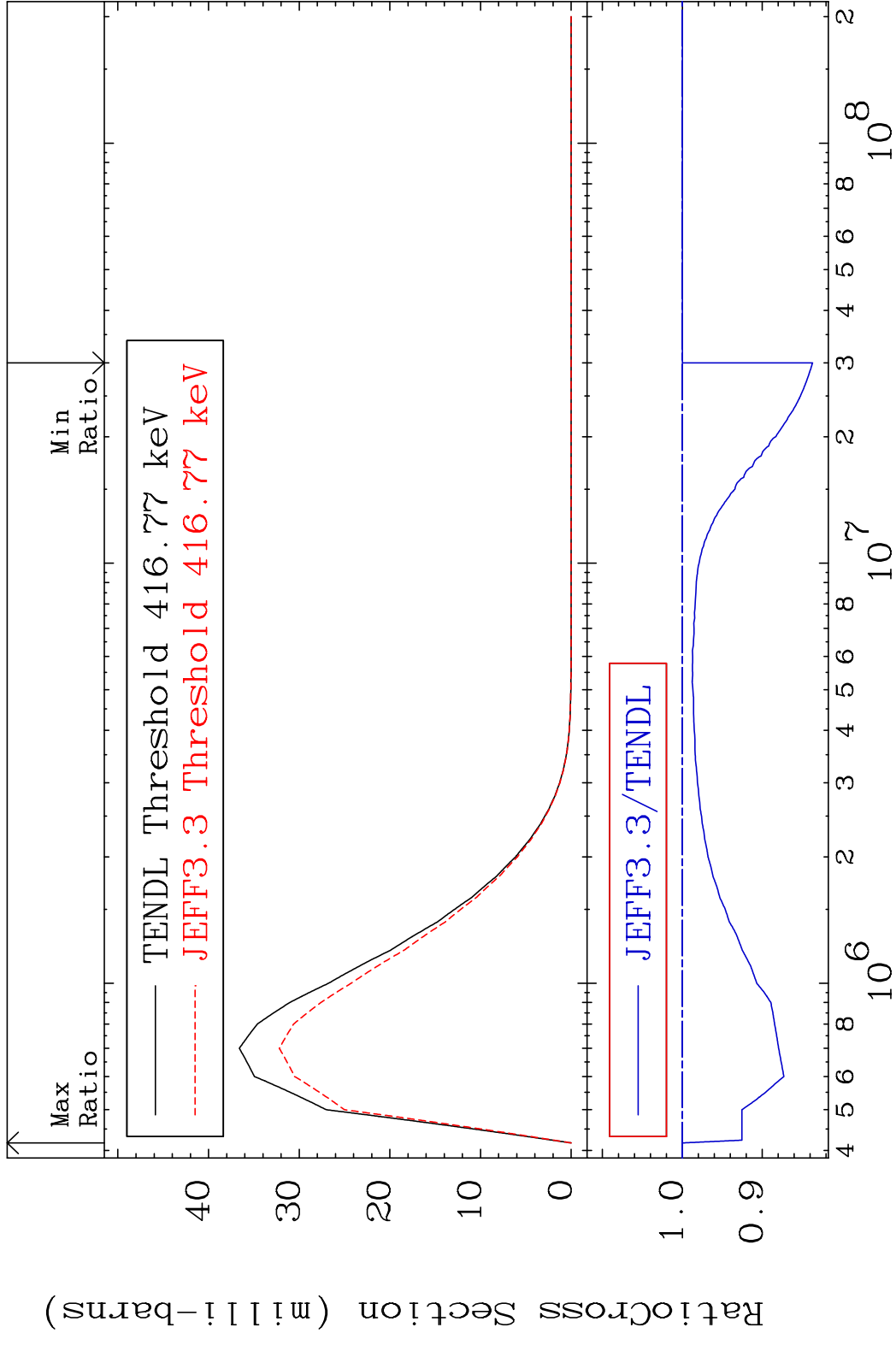
MAT 7122 MT= 63 (n, n') Level 71-Lu-174
 Cross Section -12.79 To 0.000 %



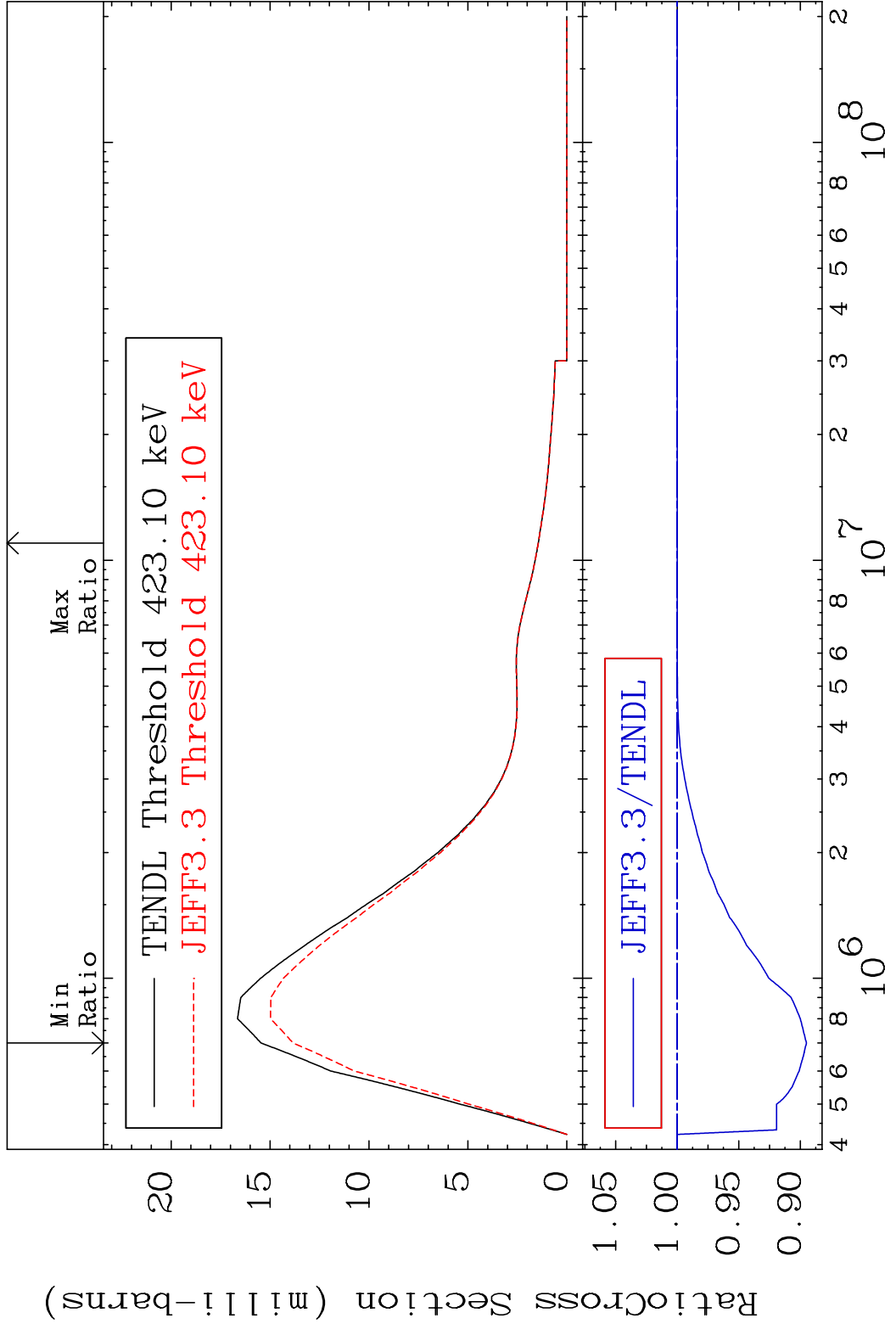
MAT 7122 MT= 64 (n, n') Level 71-Lu-174
 Cross Section -16.29 To 0.367 %



MAT 7122 MT= 65 (n,n') Level 71-Lu-174
 Cross Section -16.30 To 0.000 %



MAT 7122 MT= 66 (n, n') Level 71-Lu-174
 Cross Section -10.49 To 0.000 %

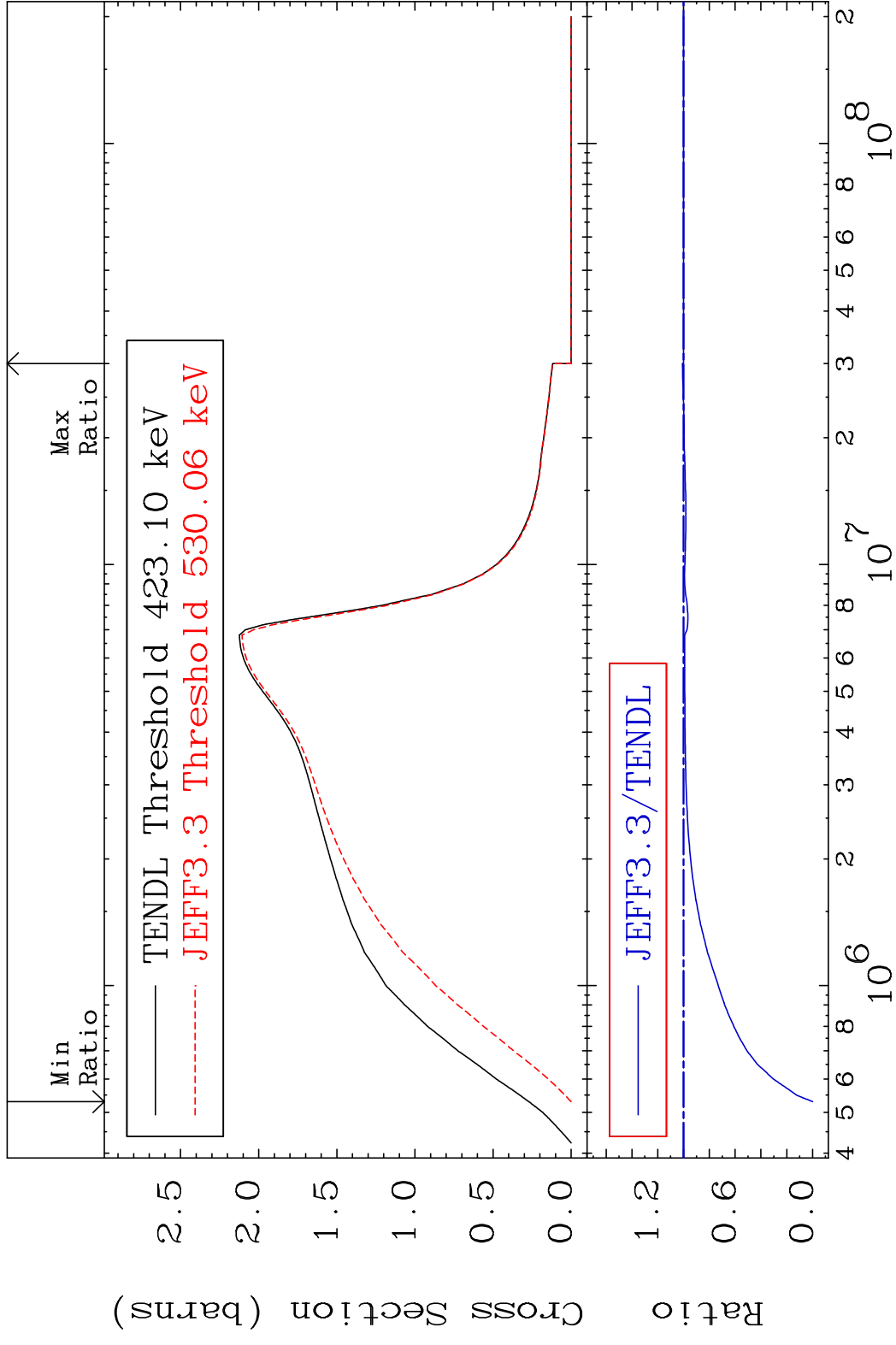


MAT 7122

(n,n') Continuum

71-Lu-174

Cross Section -100.0 To 0.920 %

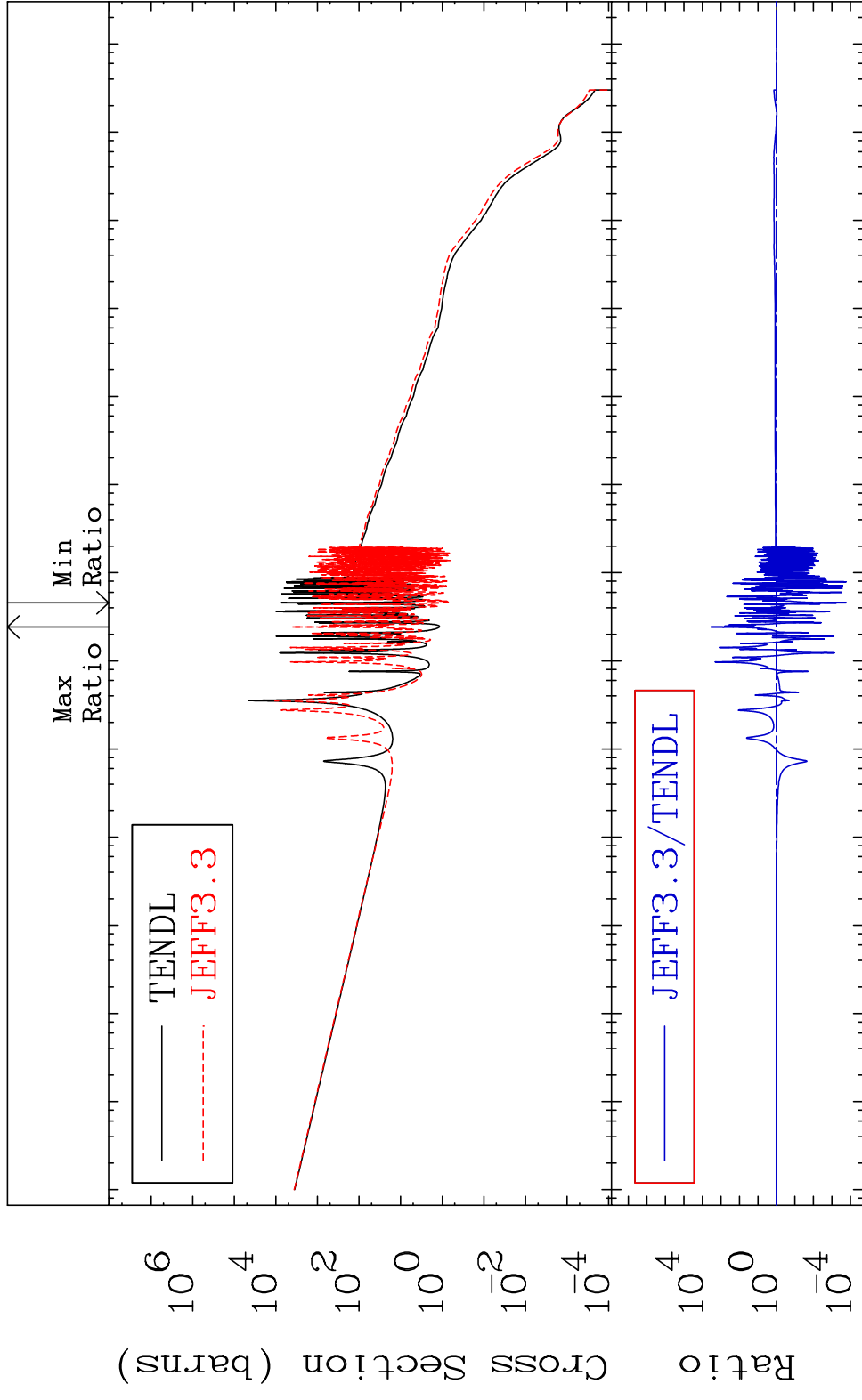


MAT 7122

71-Lu-174

(n, γ)

Cross Section -99.98 To 9999. %

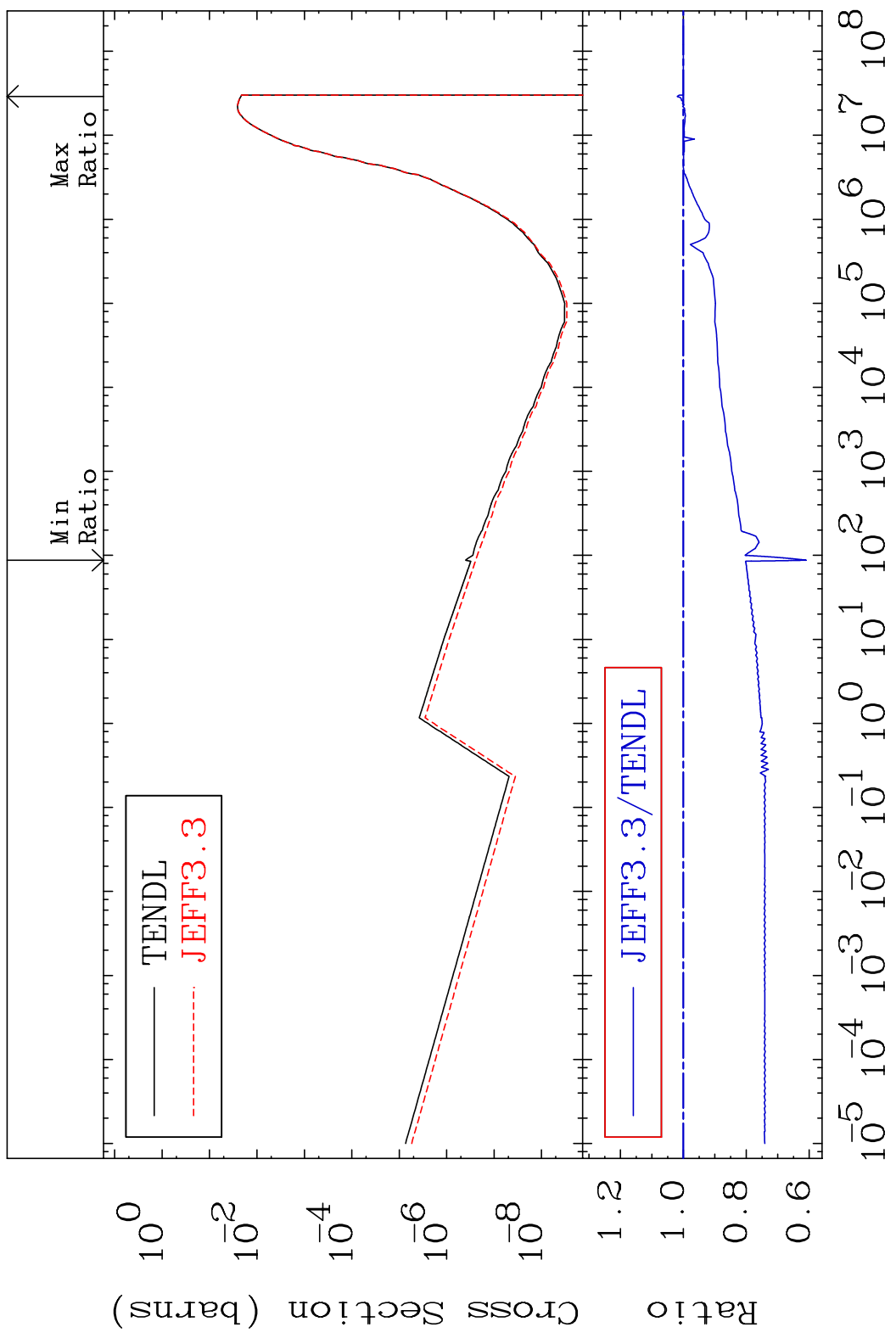


MAT 7122

(n, p)

71-Lu-174

Cross Section -39.09 To 1.965 %

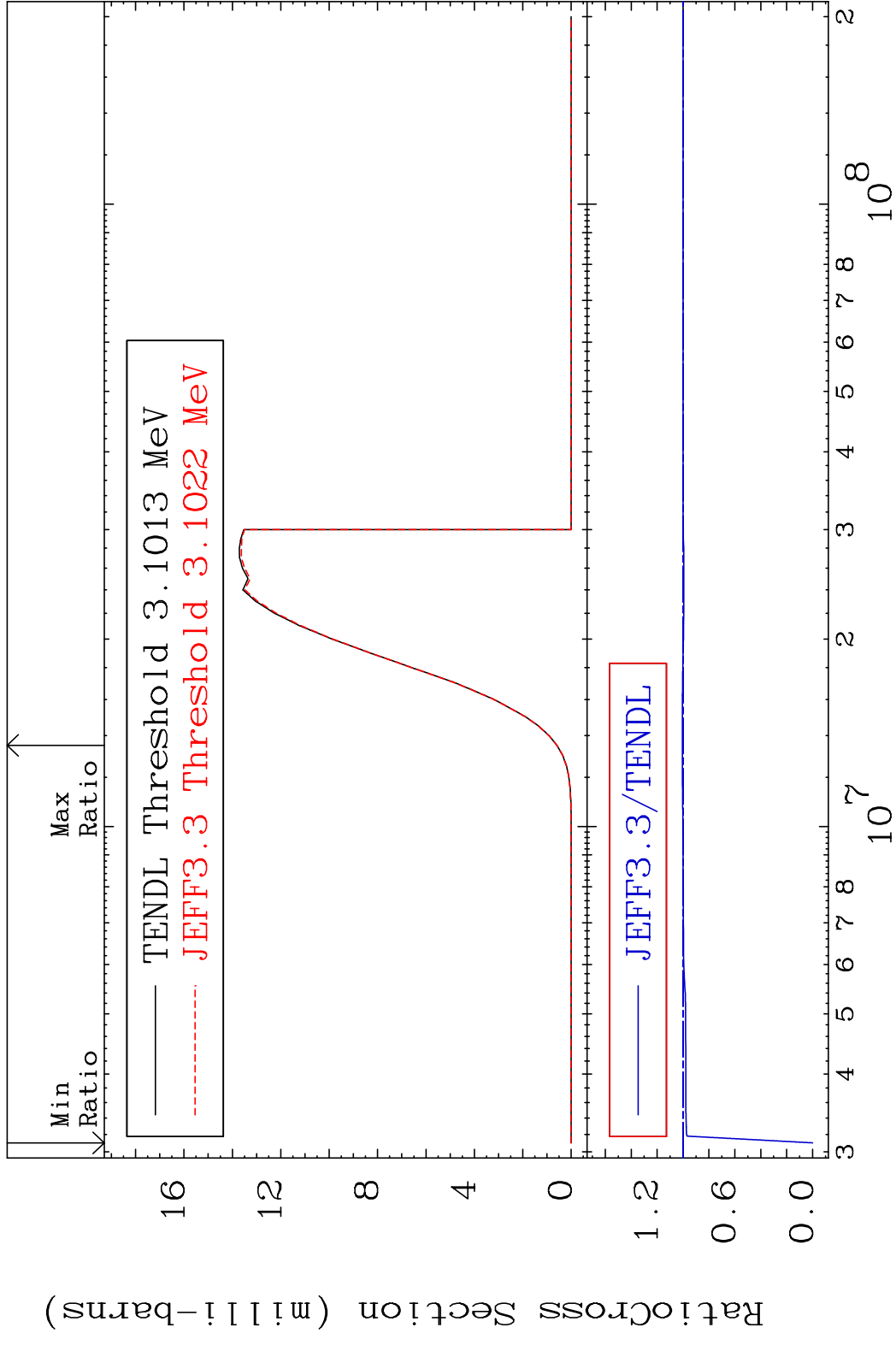


MAT 7122

71-Lu-174

(n,d)

Cross Section -100.0 To 0.512 %

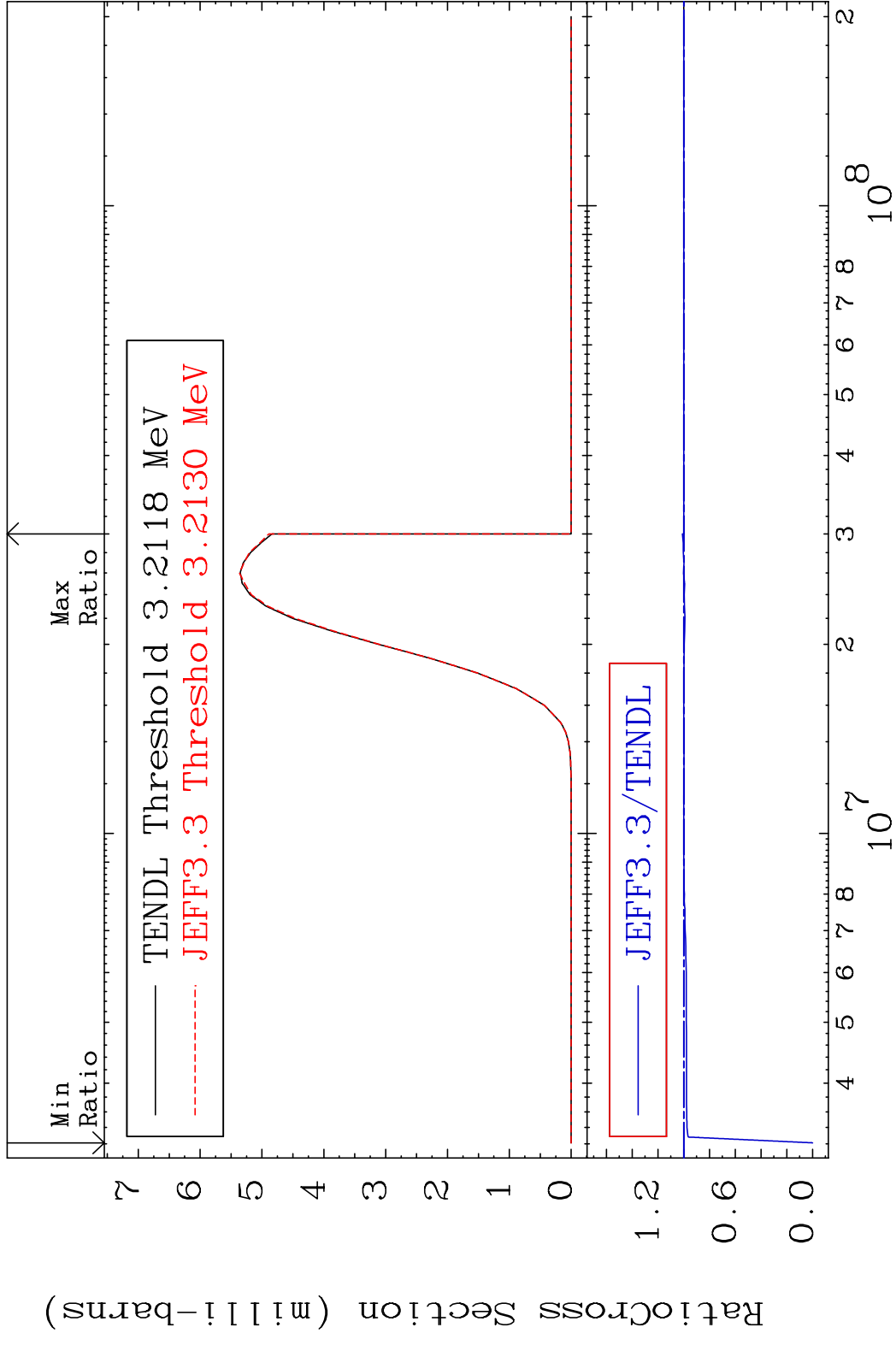


MAT 7122

71-Lu-174

(n, t)

Cross Section -100.0 To 1.074 %



40

Incident Energy (eV)

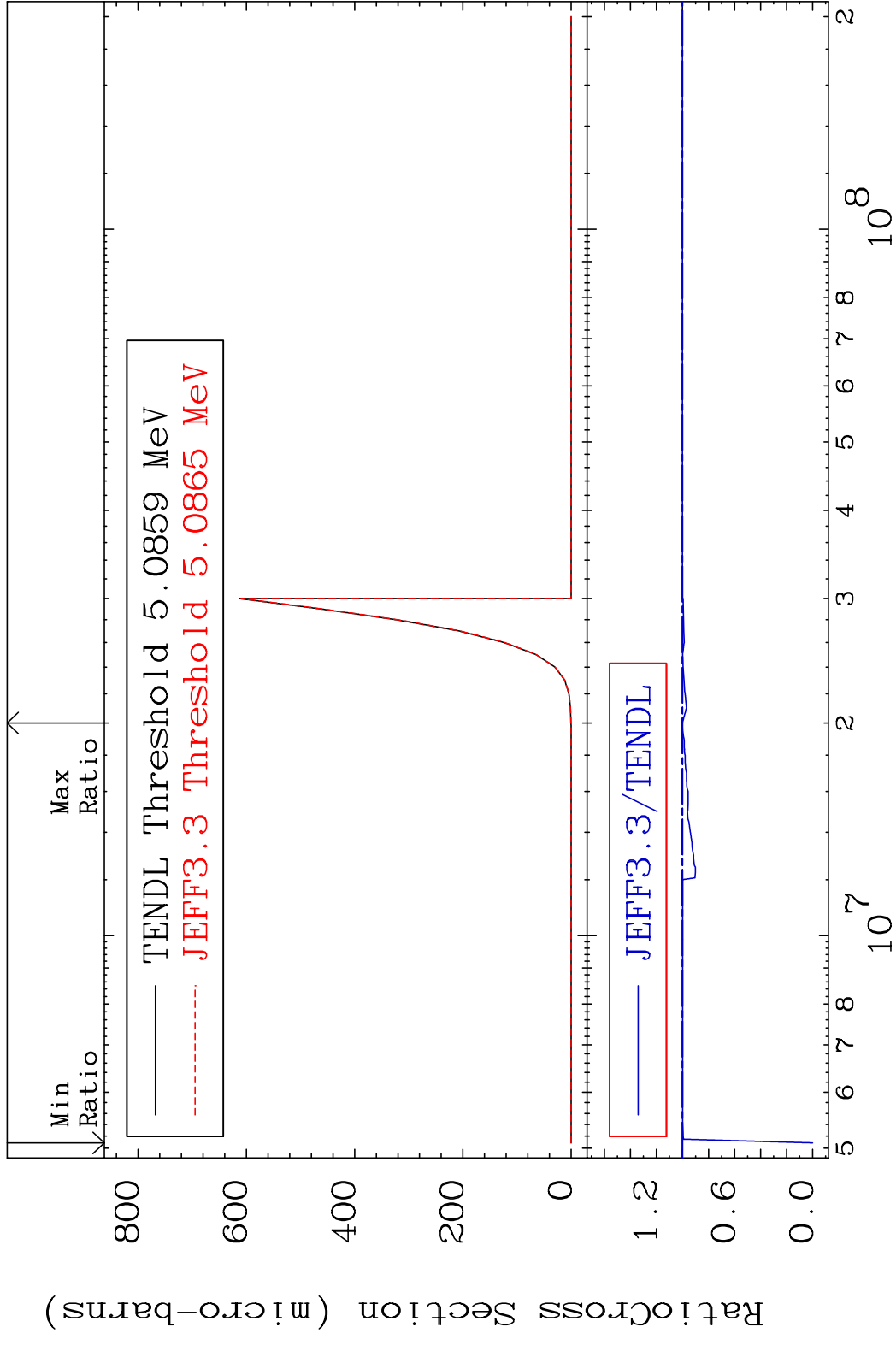
71-Lu-174

MAT 7122

(n, He-3)

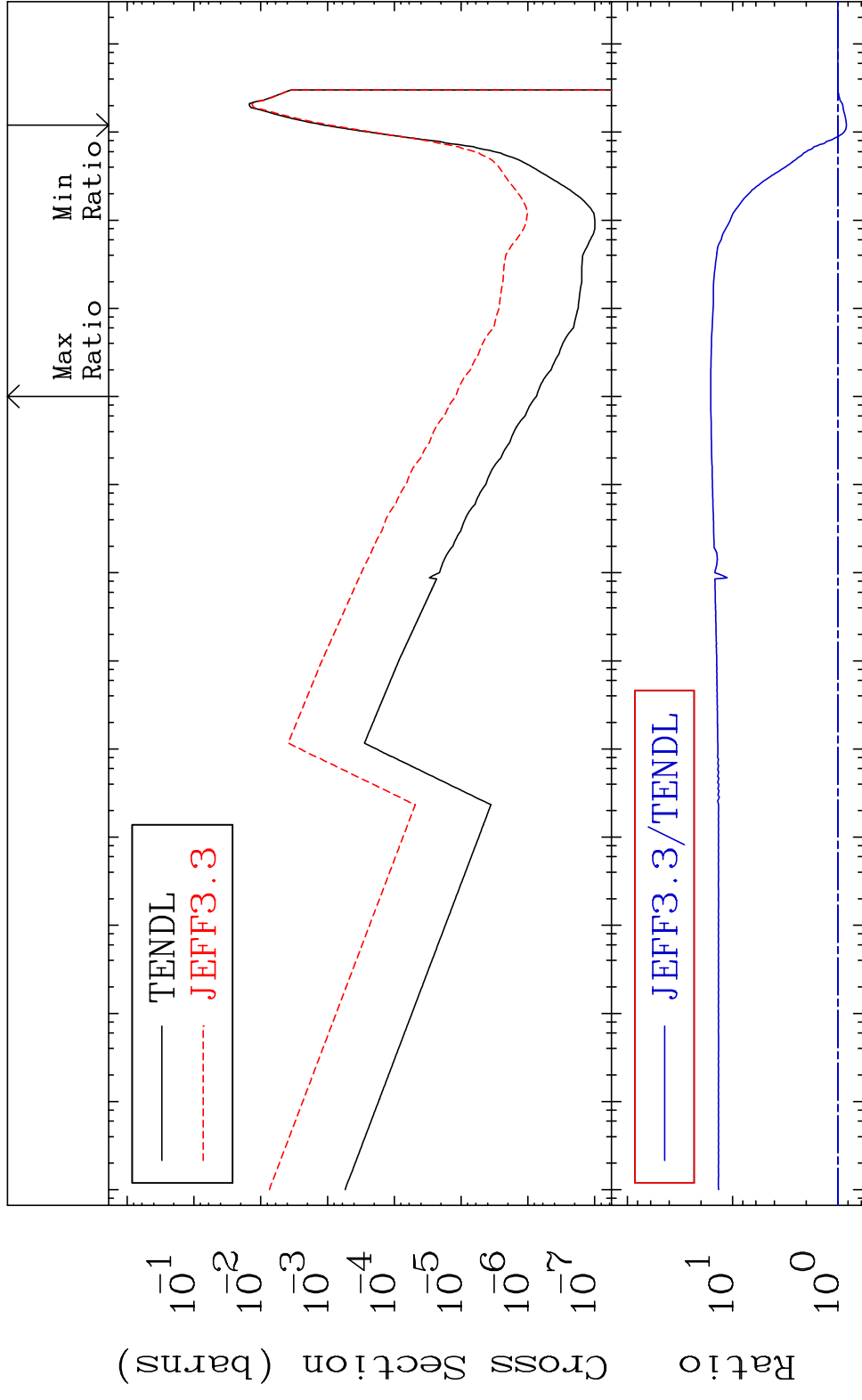
71-Lu-174

Cross Section -100.0 To 0.111 %



MAT 7122

(n, α)
Cross Section -16.75 To 1514. %
71-Lu-174

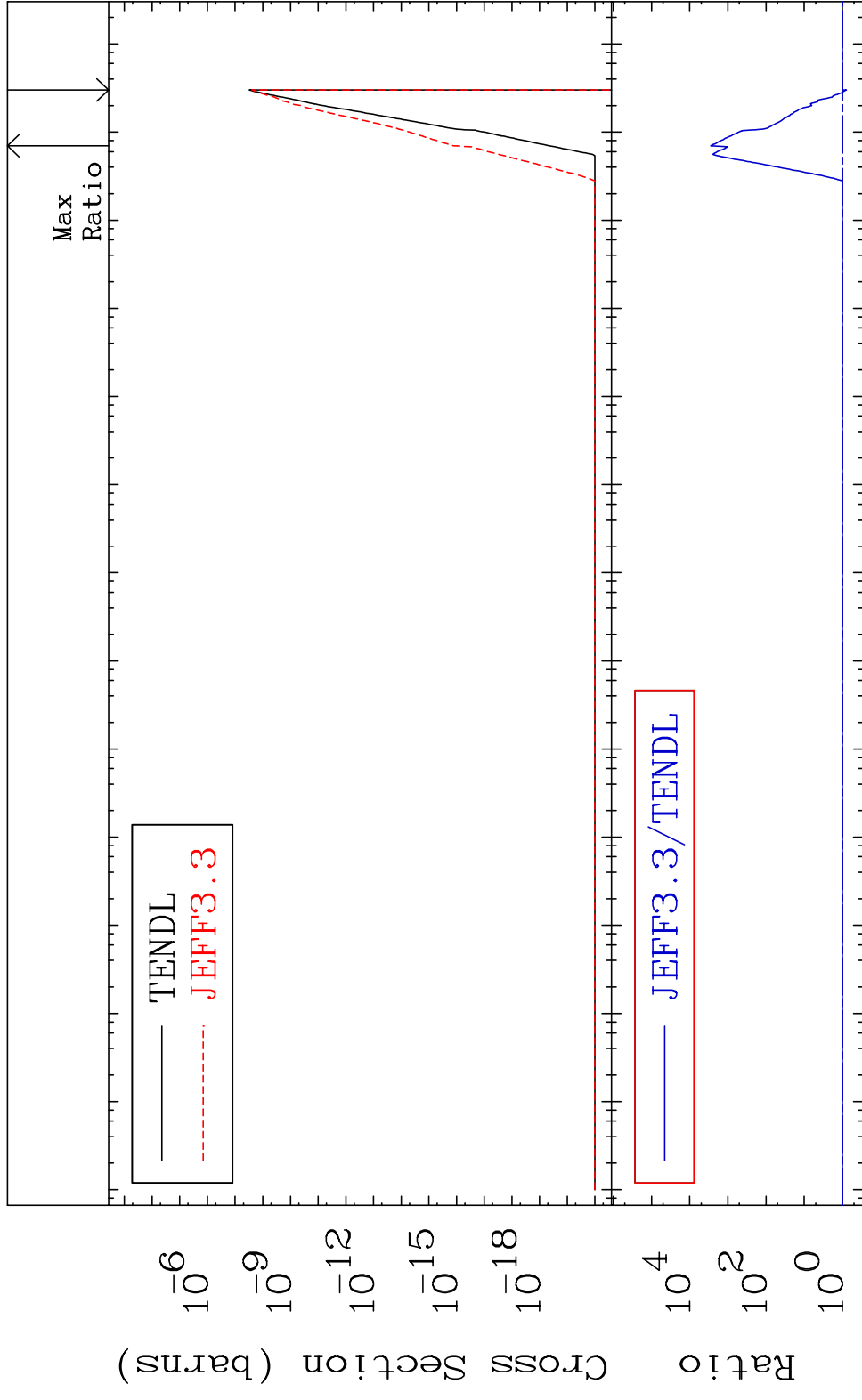


MAT 7122

(n, 2α)

71-Lu-174

Cross Section -21.18 To 9999. %

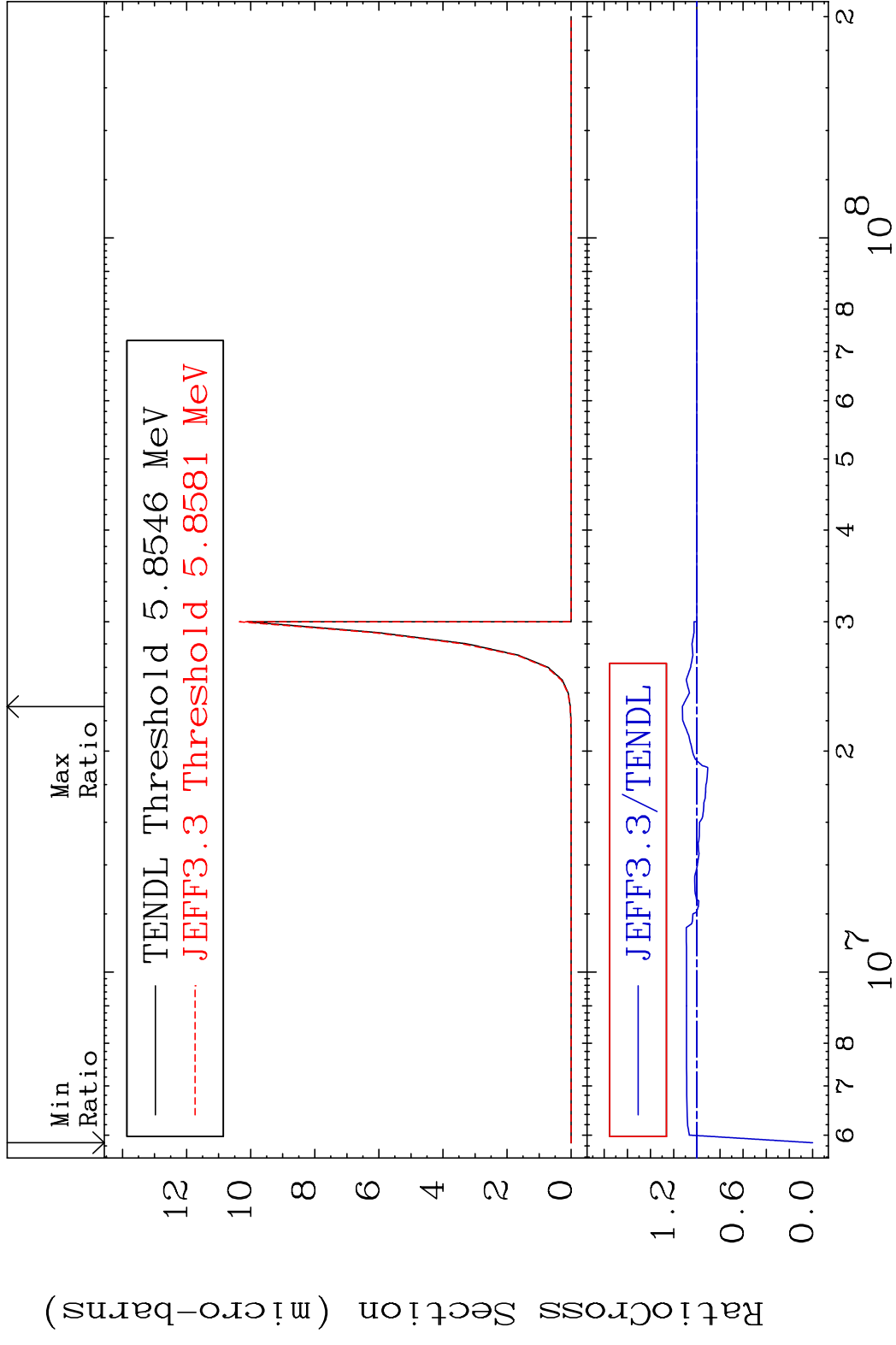


MAT 7122

(n,2p)

71-Lu-174

Cross Section -100.0 To 12.51 %

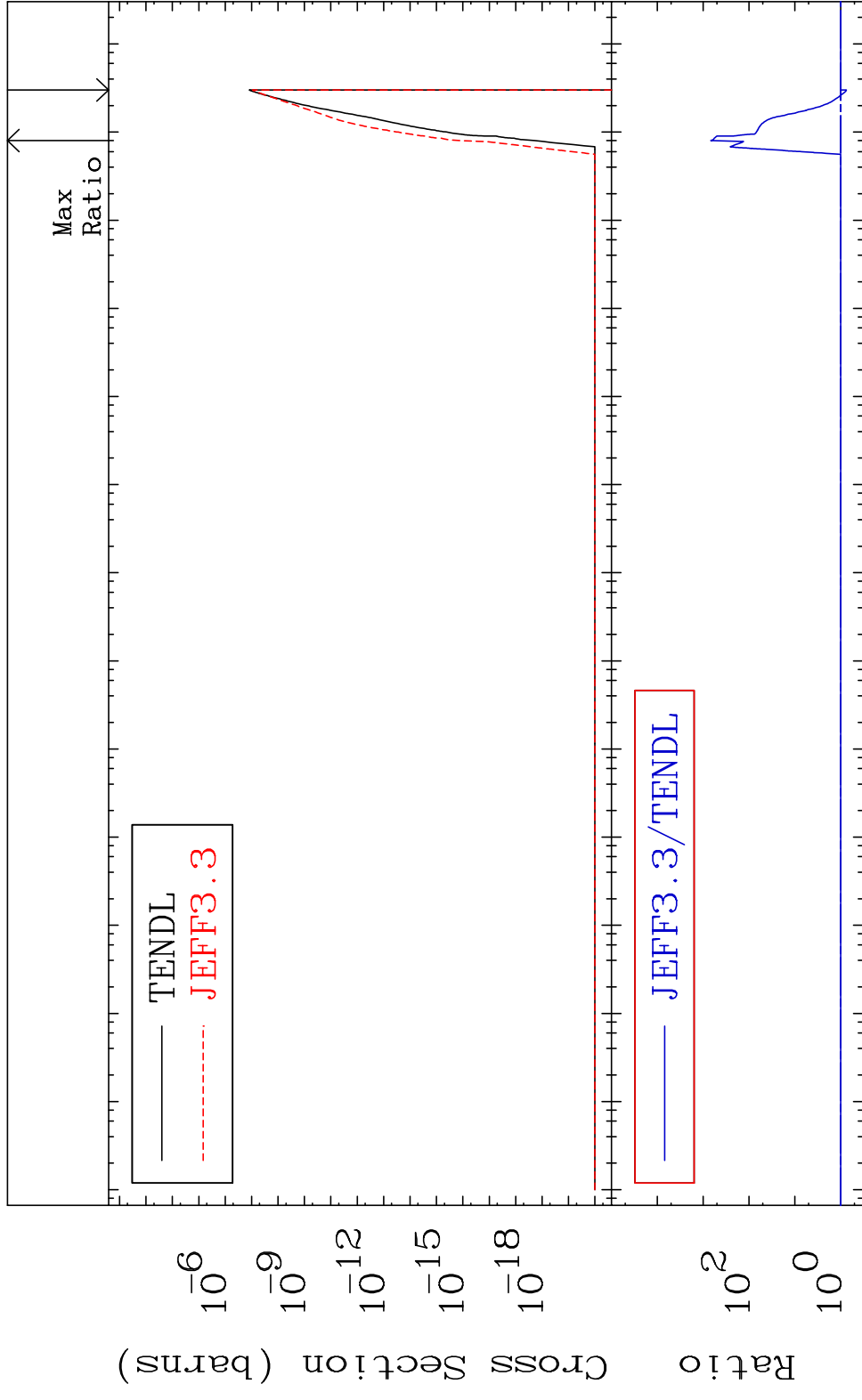


MAT 7122

(n,p) α

71-Lu-174

Cross Section -24.41 To 9999. %

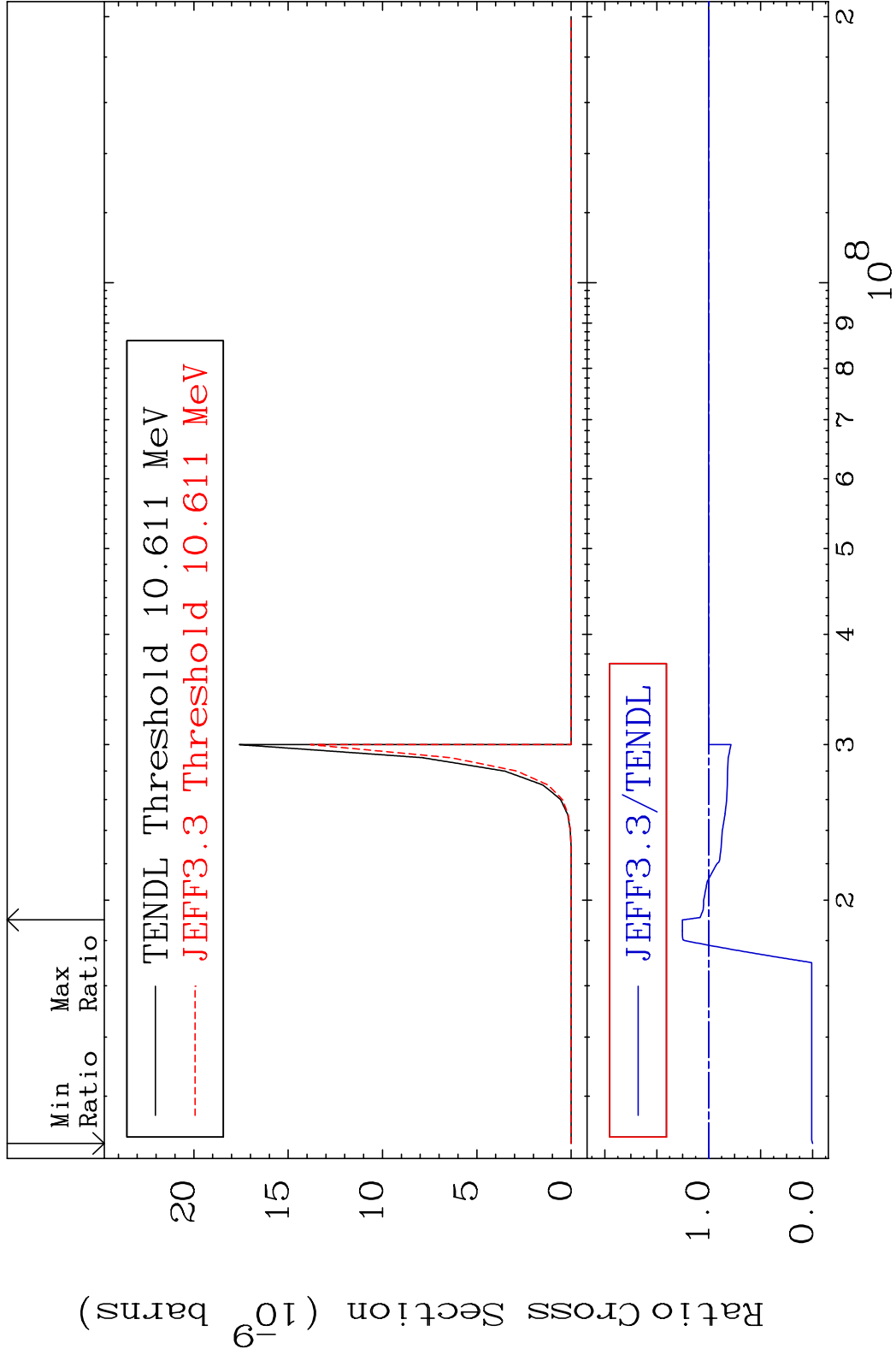


MAT 7122

(n,p) d

71-Lu-174

Cross Section -100.0 To 25.34 %

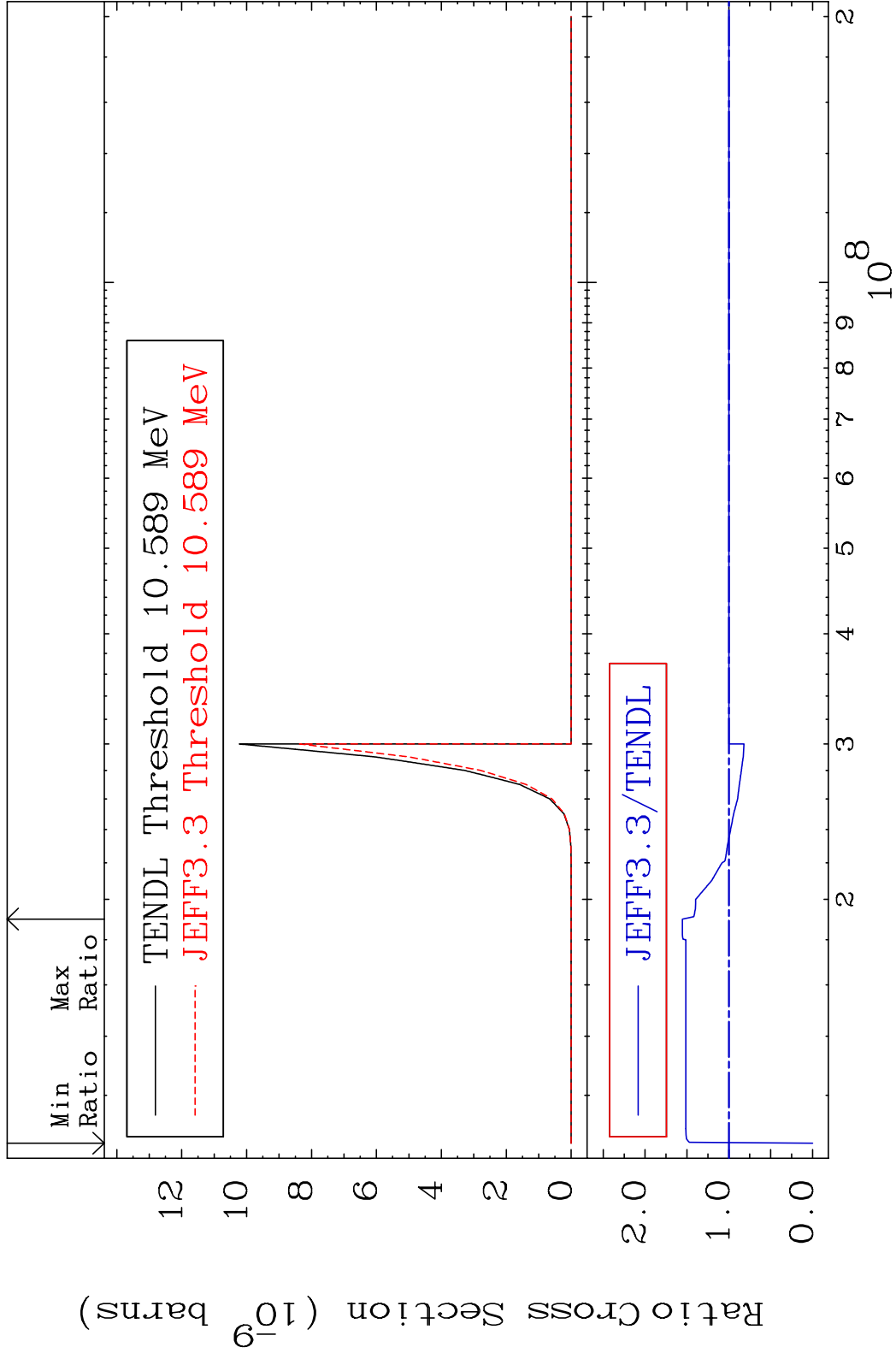


MAT 7122

(n,p) t

71-Lu-174

Cross Section -100.0 To 55.47 %

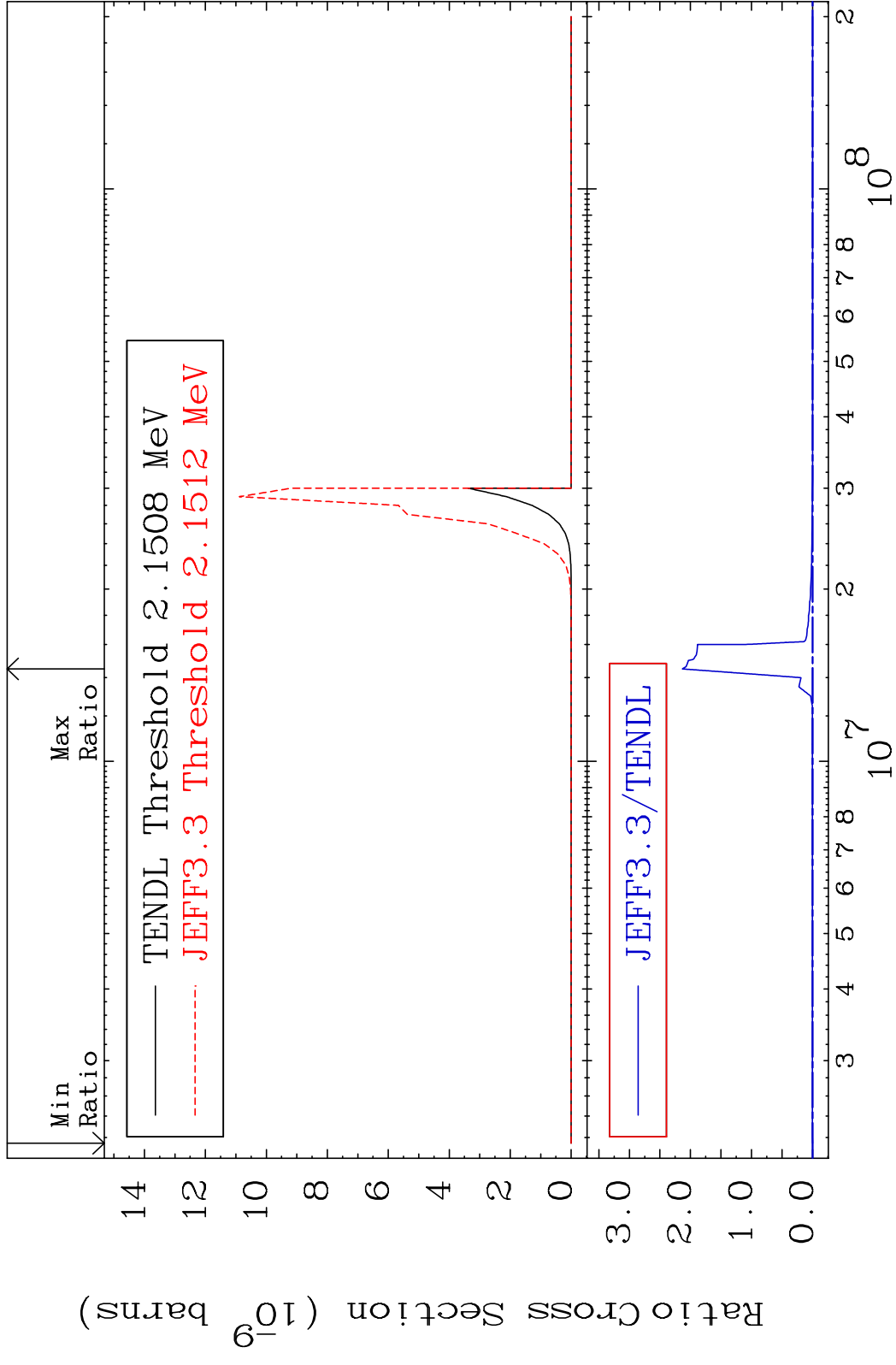


MAT 7122

(n,d) α

71-Lu-174

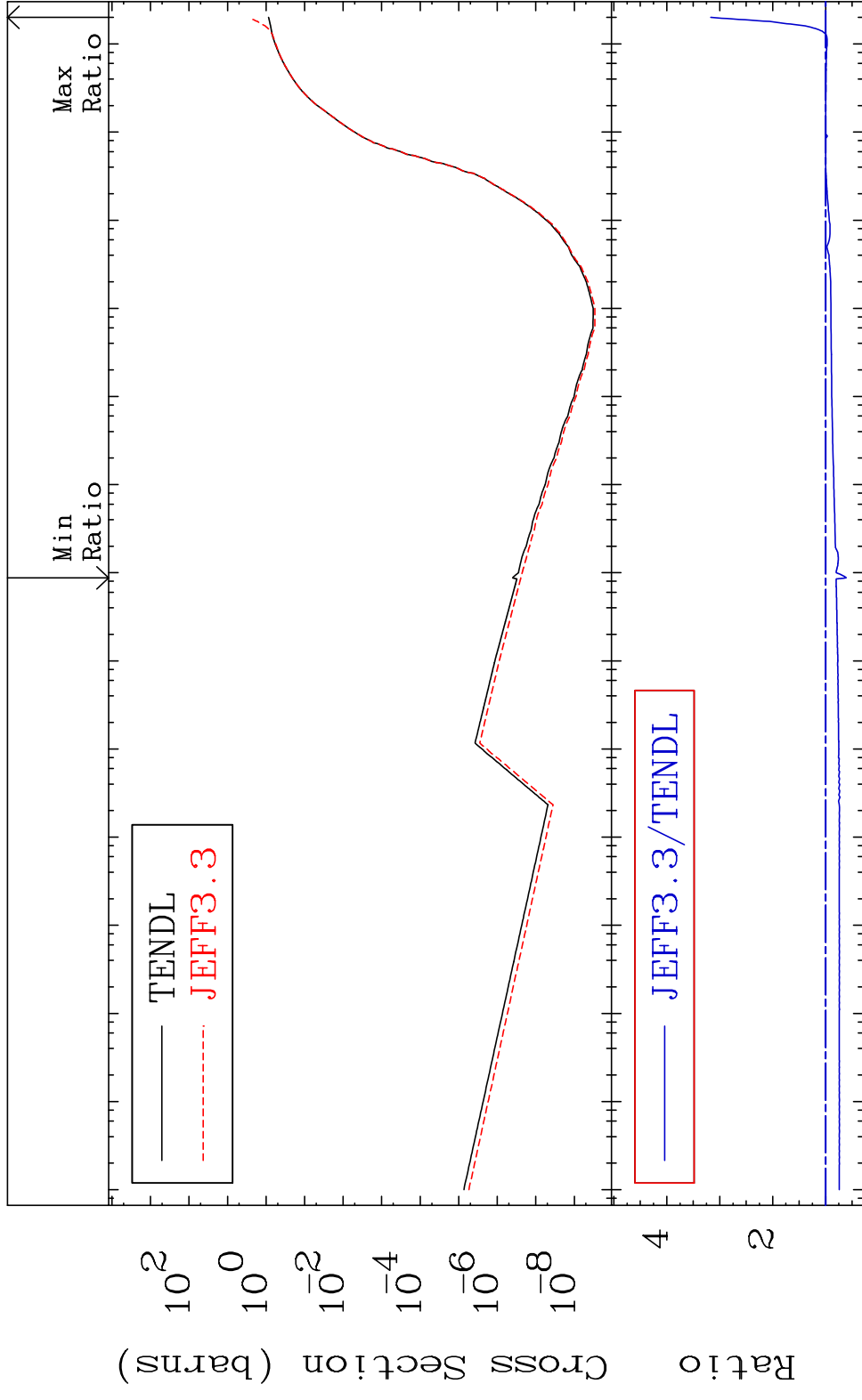
Cross Section -100.0 To 9999. %



MAT 7122

Hydrogen Production
Cross Section -39.09 To 217.0 %

71-Lu-174



49

Incident Energy (eV)

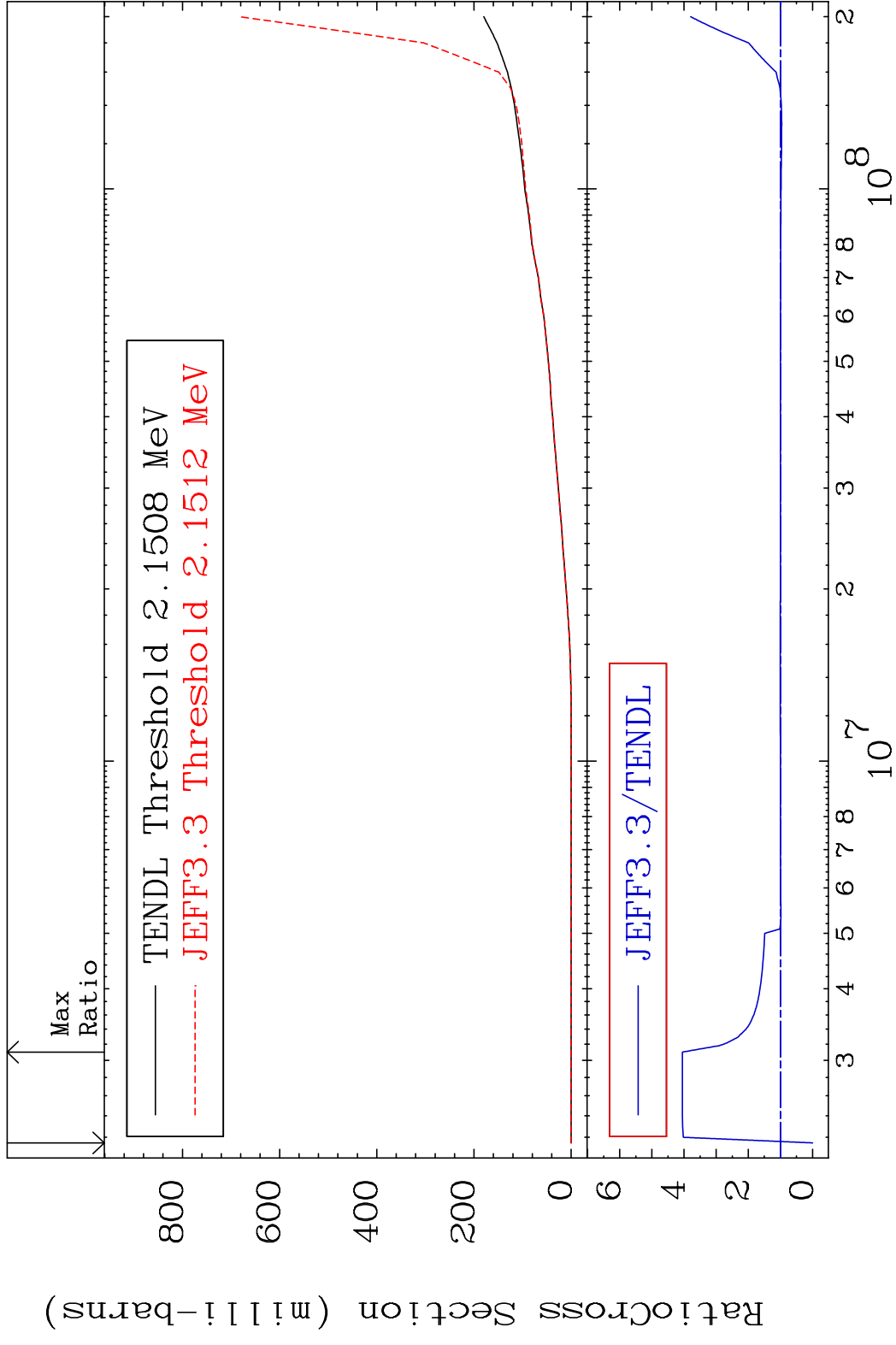
71-Lu-174

MAT 7122

Deuterium Production

71-Lu-174

Cross Section -100.0 To 305.2 %

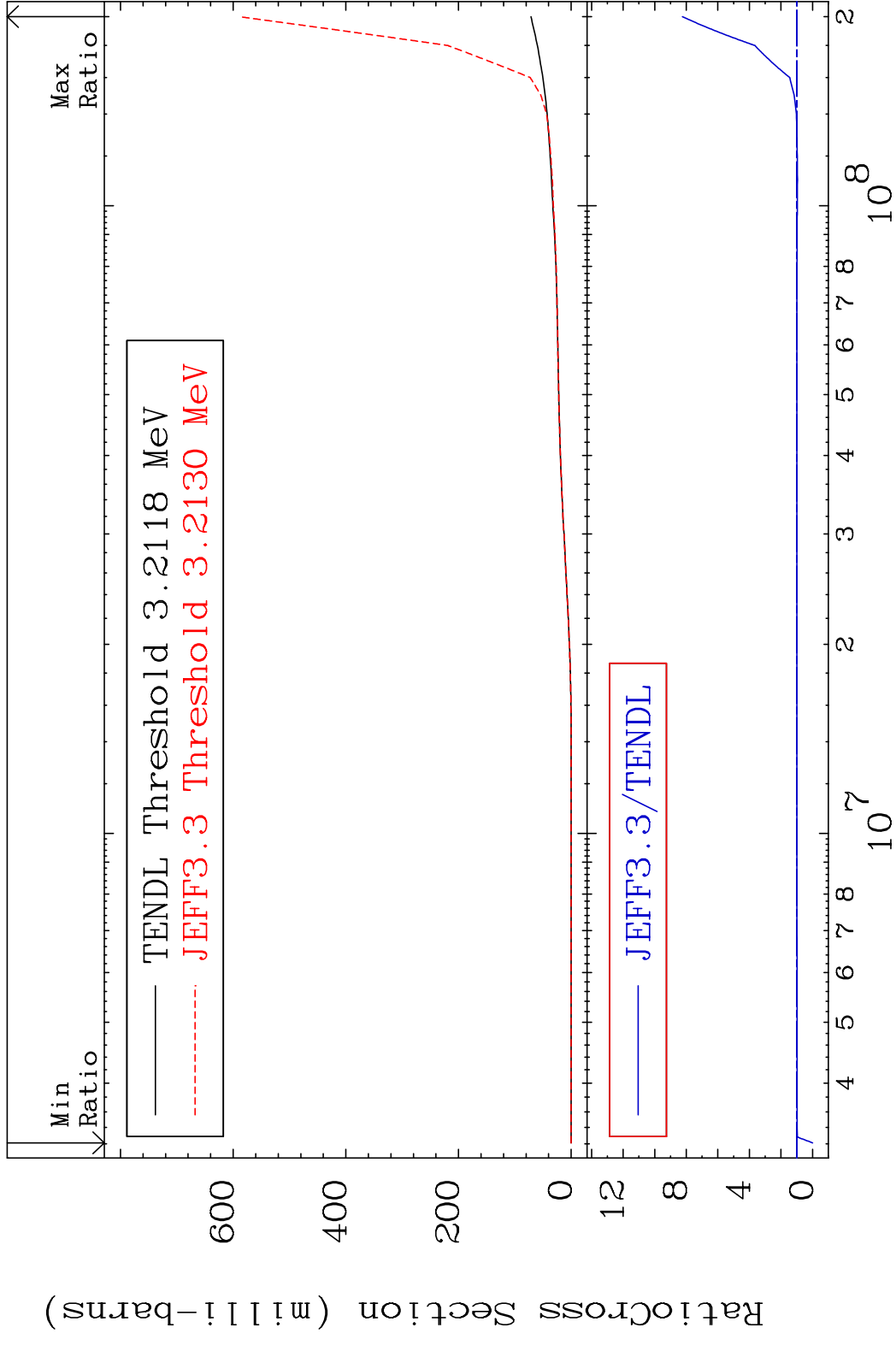


MAT 7122

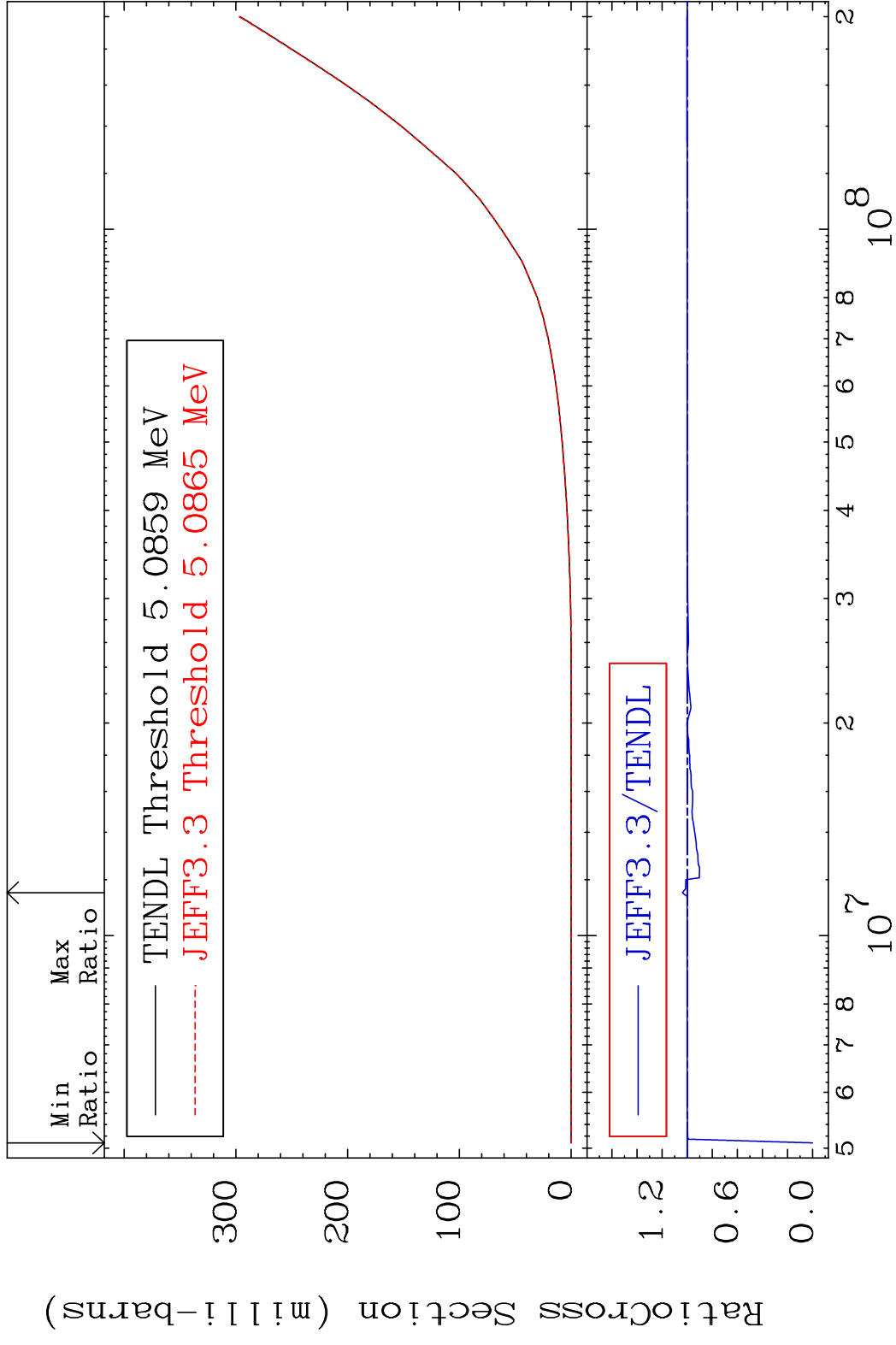
Tritium Production

71-Lu-174

Cross Section -100.0 To 724.8 %



Cross Section -100.0 To 3.805 %

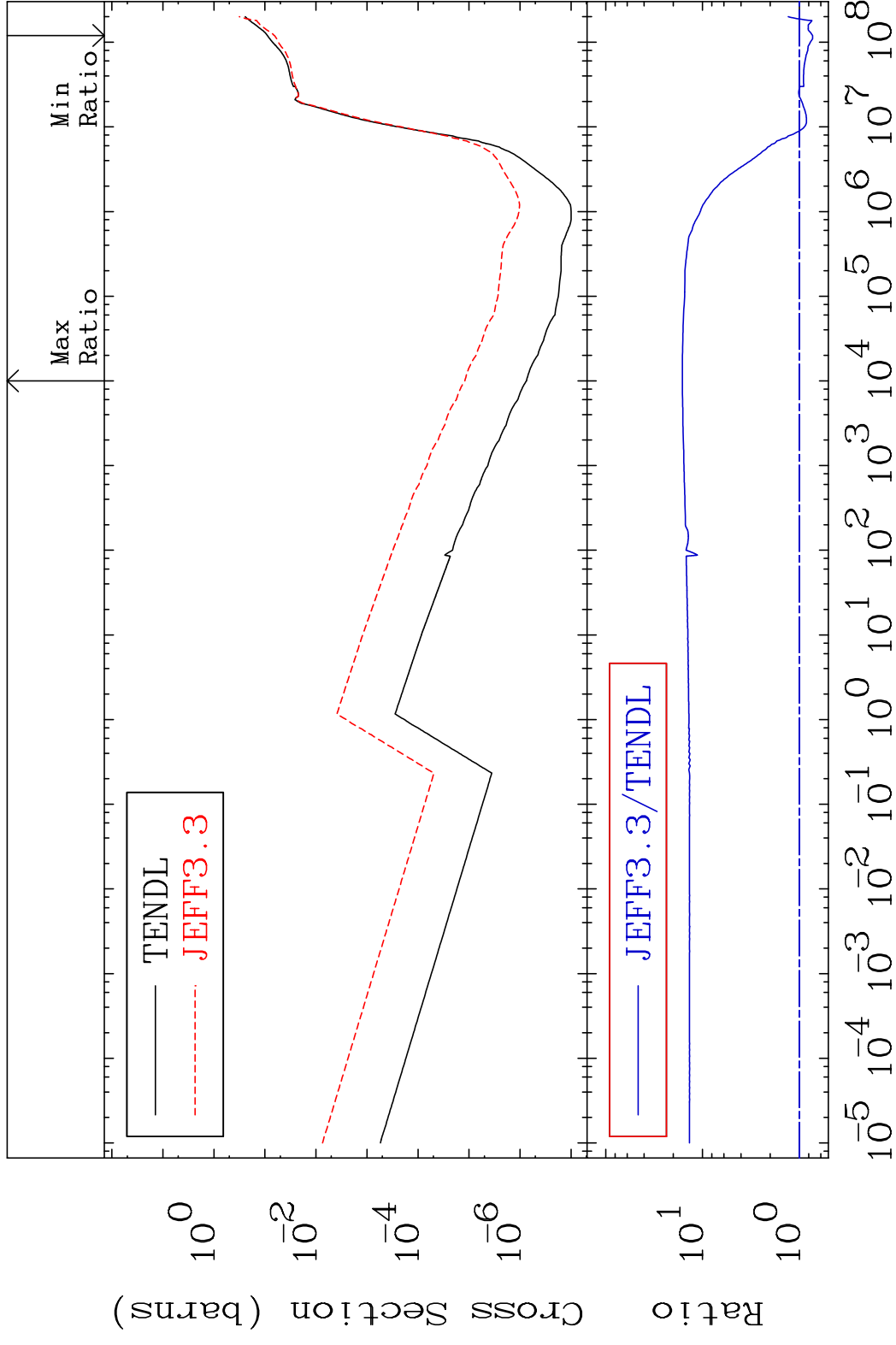


MAT 7122

He-4 Production

71-Lu-174

Cross Section -27.09 To 1514. %

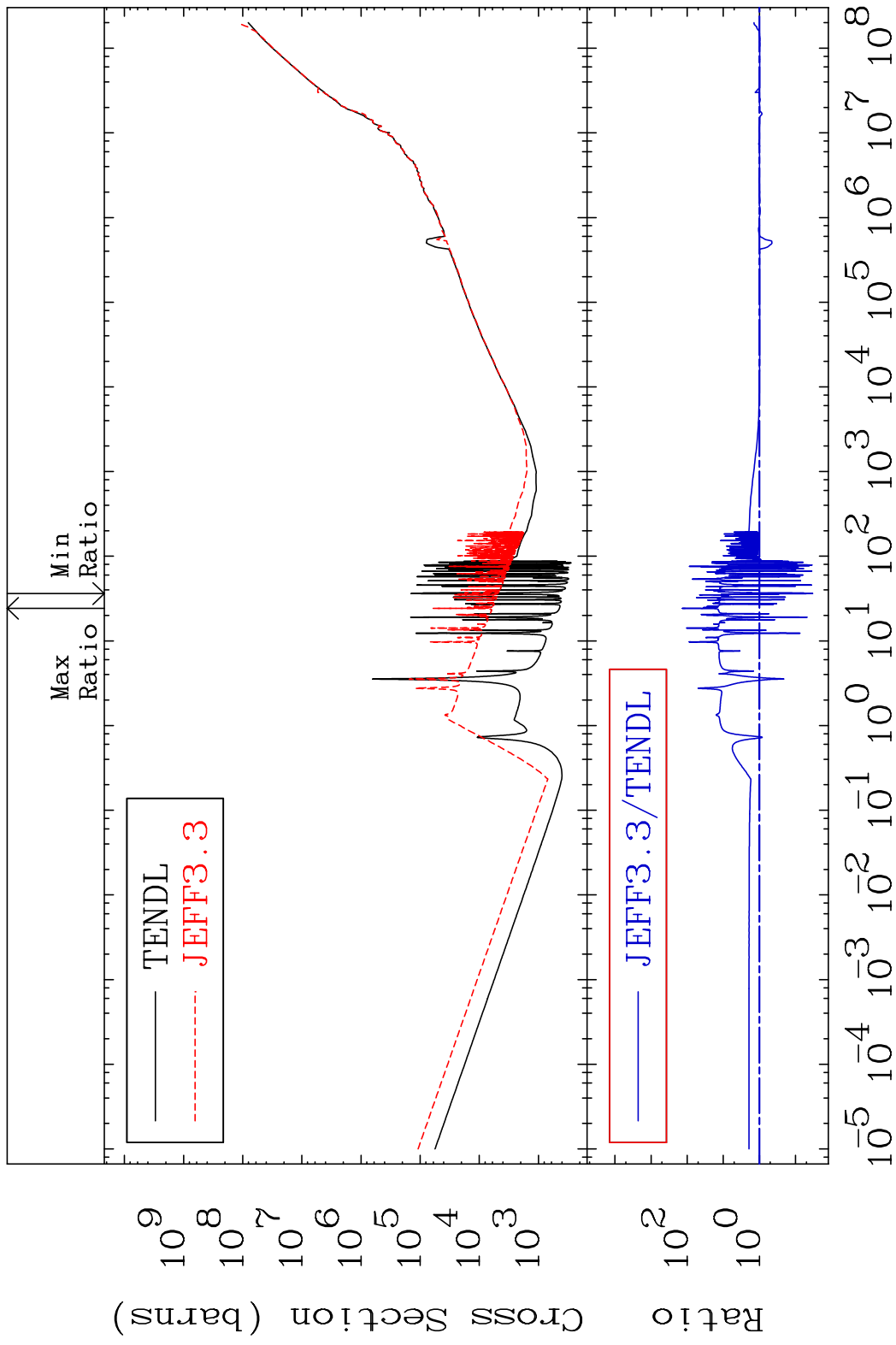


53

Incident Energy (eV)

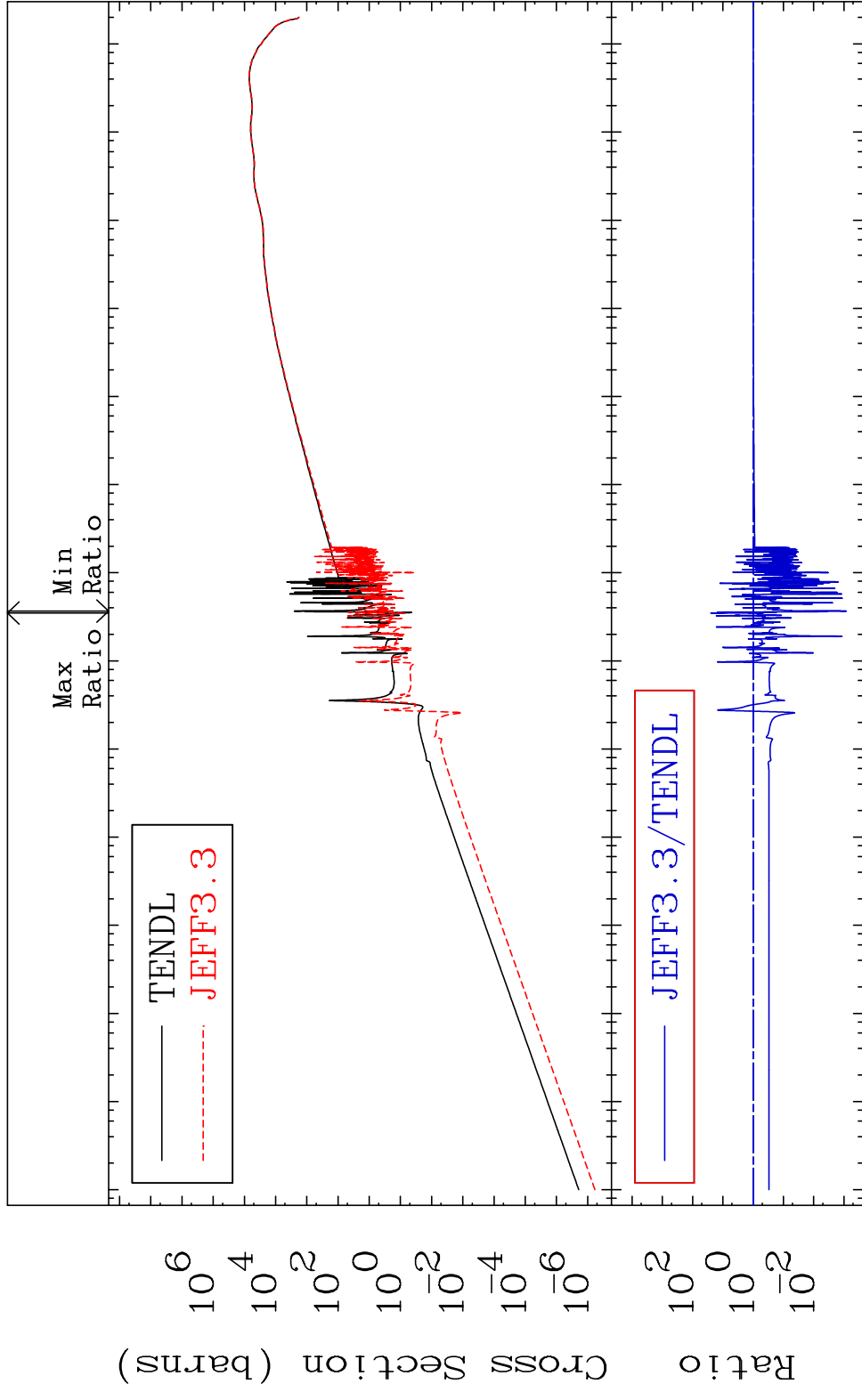
71-Lu-174

MAT 7122 Kerma total (eV-barns) 71-Lu-174
 Cross Section -96.62 To 9999. %



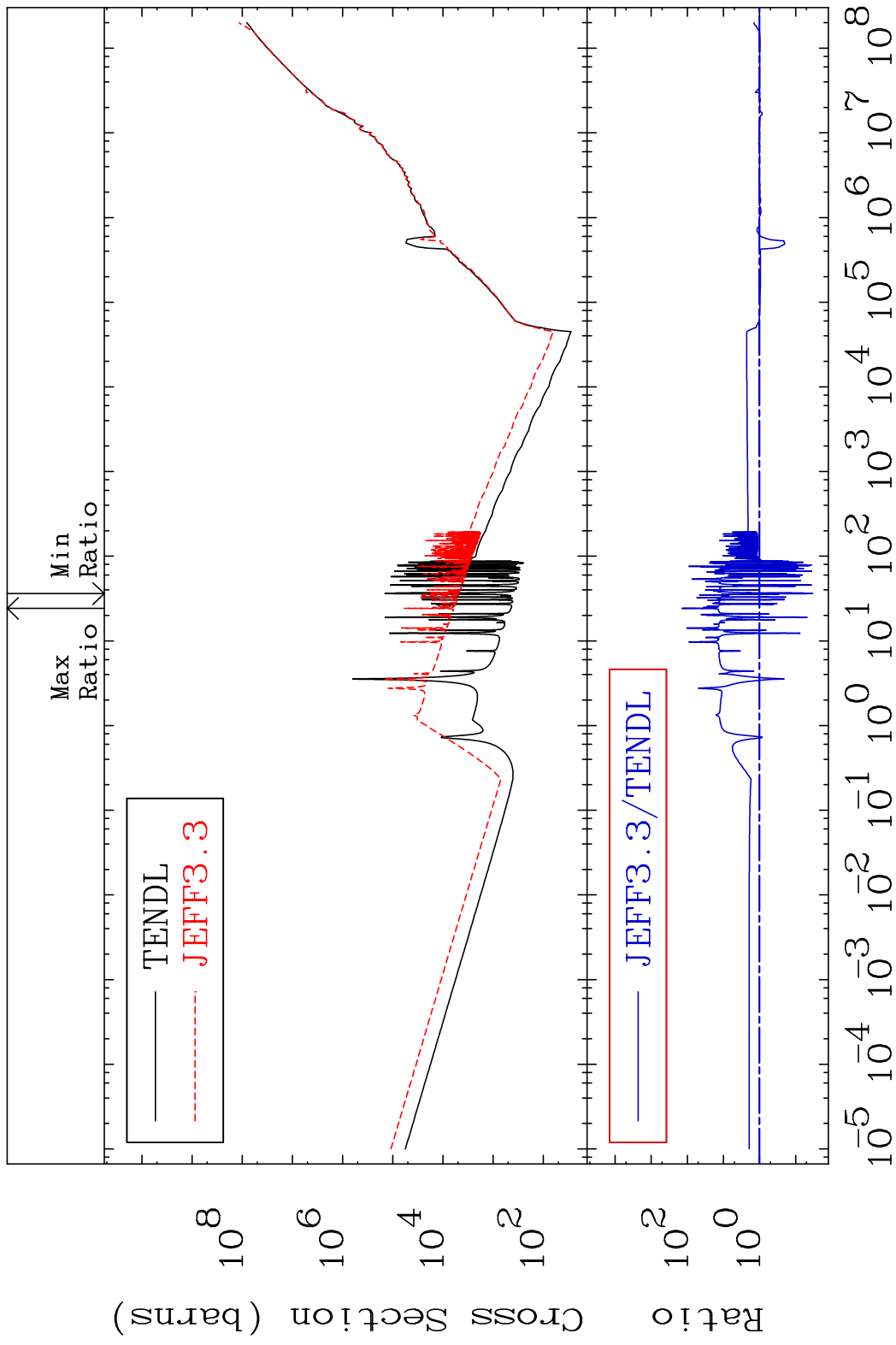
MAT 7122

Kerma elastic
Cross Section -99.92 To 2425. %
71-Lu-174

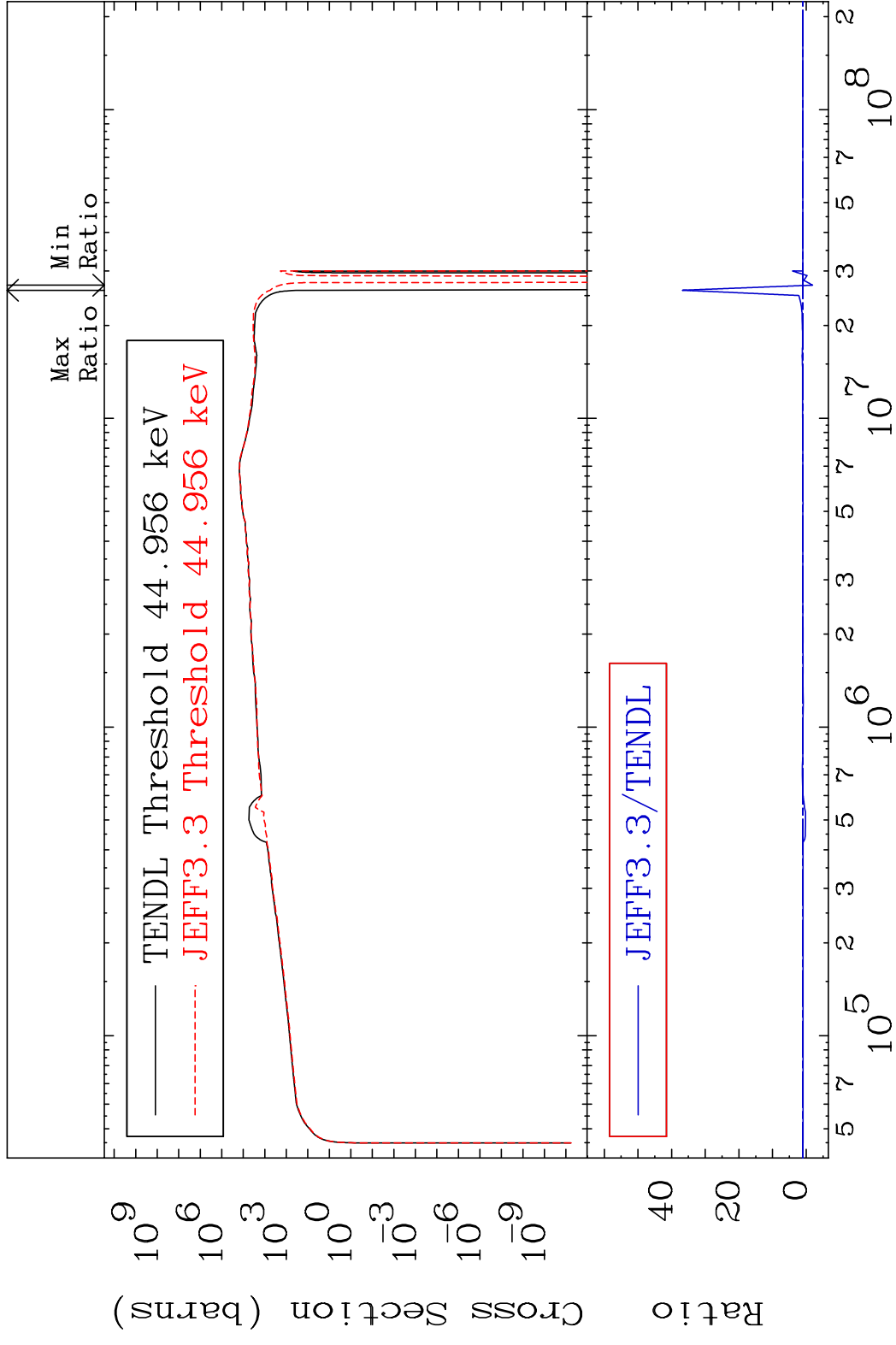


Incident Energy (eV) 71-Lu-174

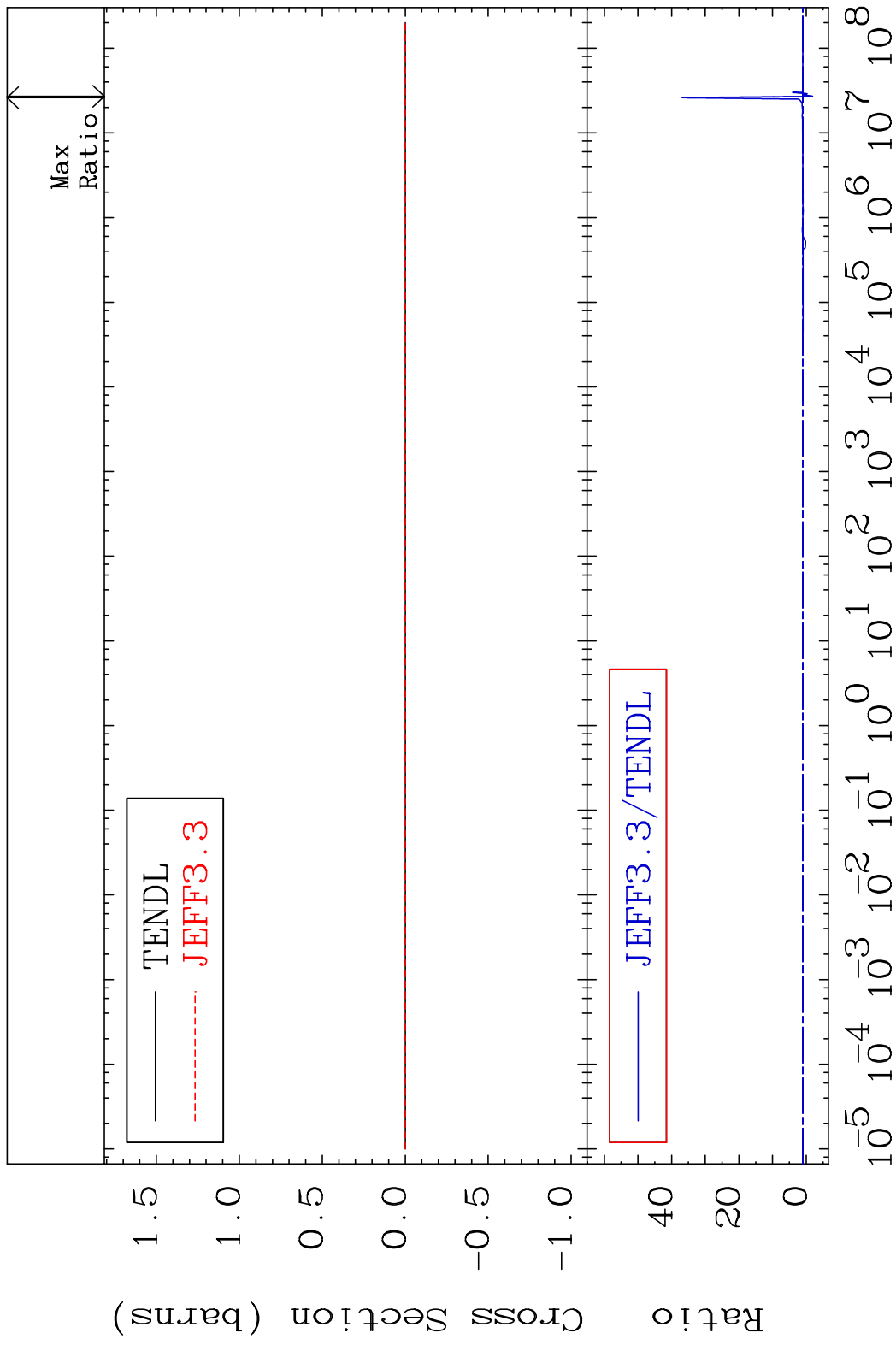
MAT 7122 Kerma non-elastic (all but mt2) 71-Lu-174
 Cross Section -96.59 To 9999. %



MAT 7122 Kerma inelastic (mt51-91) 71-Lu-174
 Cross Section -287.9 To 3581. %

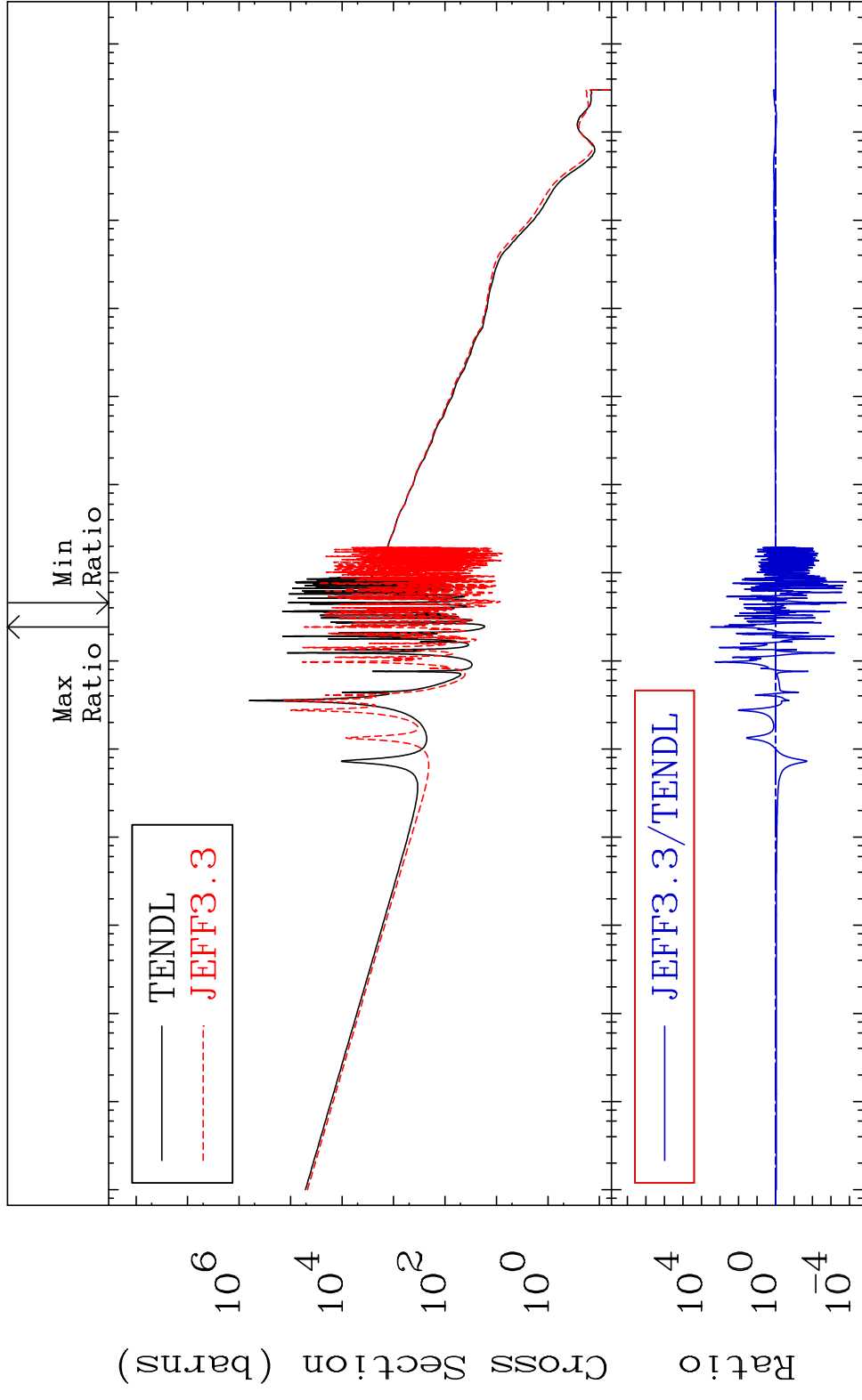


MAT 7122 Kerma fission (mt18 or mt19-20-21-38)71-Lu-174
 Cross Section -287.9 To 3581. %



MAT 7122

Kerma capture (mt102) 71-Lu-174
Cross Section -99.99 To 9999. %



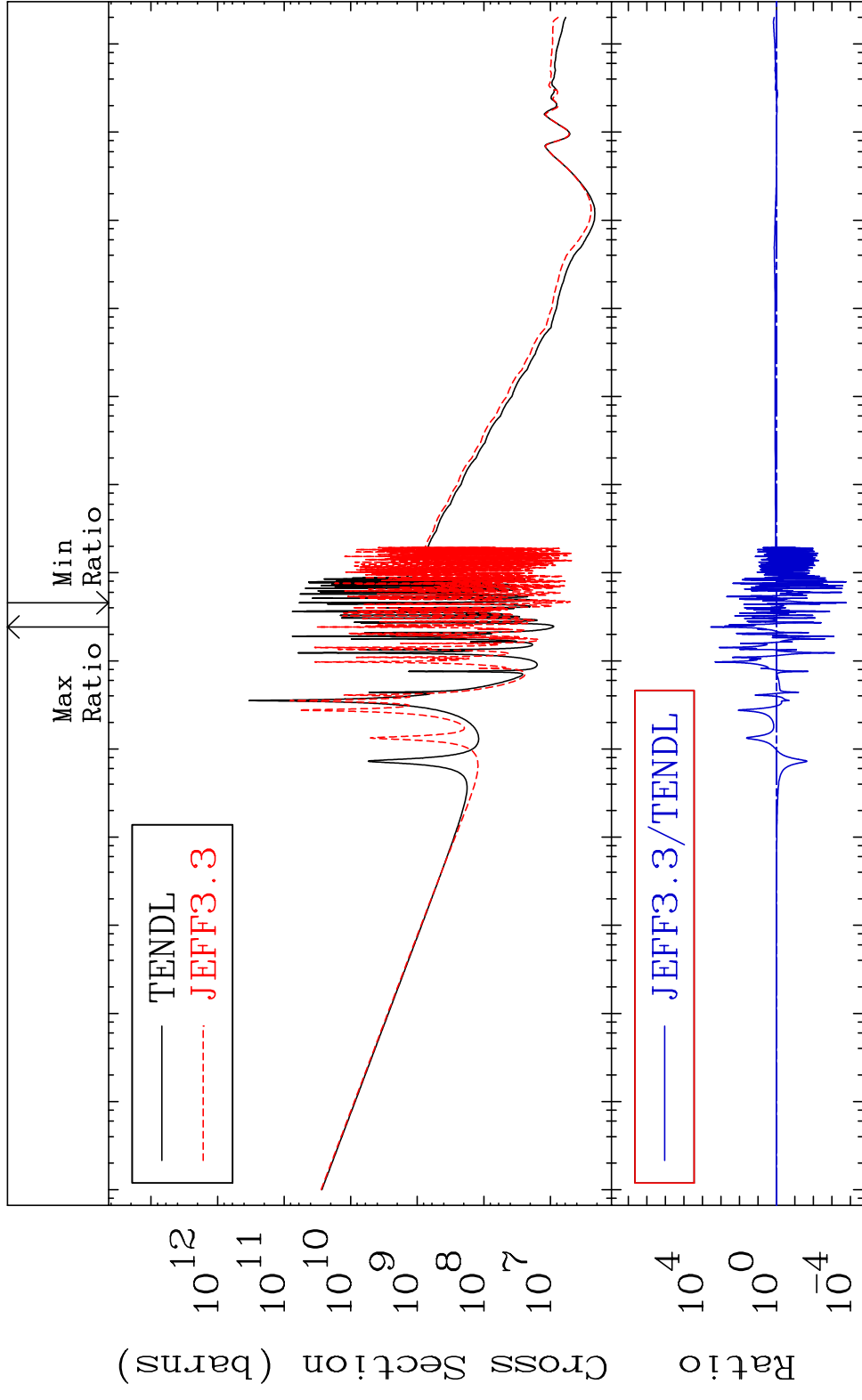
59

Incident Energy (eV)

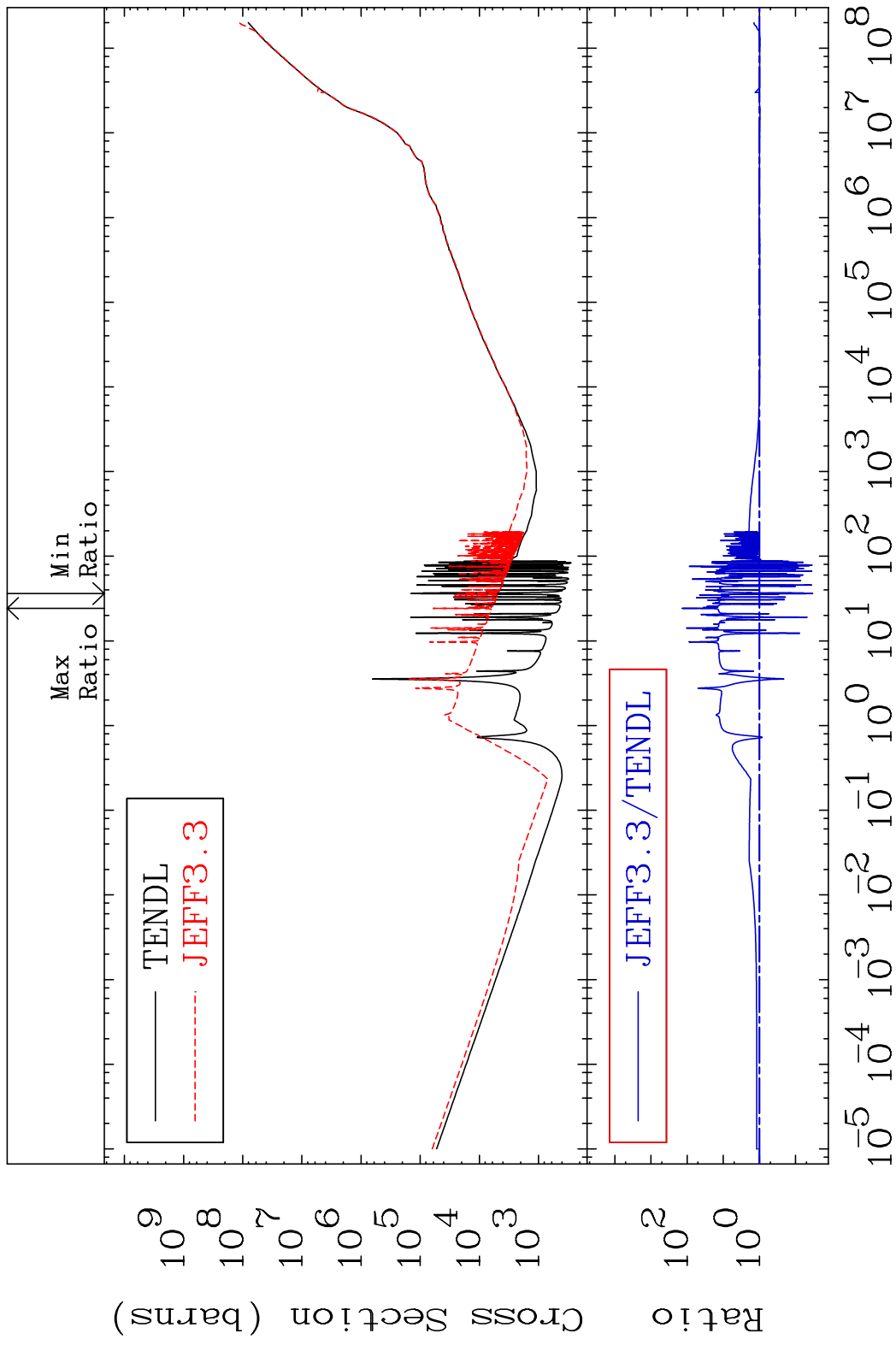
71-Lu-174

MAT 7122

Total photon (eV-barns) 71-Lu-174
Cross Section -99.98 To 9999. %



MAT 7122 Total kinematic kerma (high limit) 71-Lu-174
 Cross Section -96.60 To 9999. %

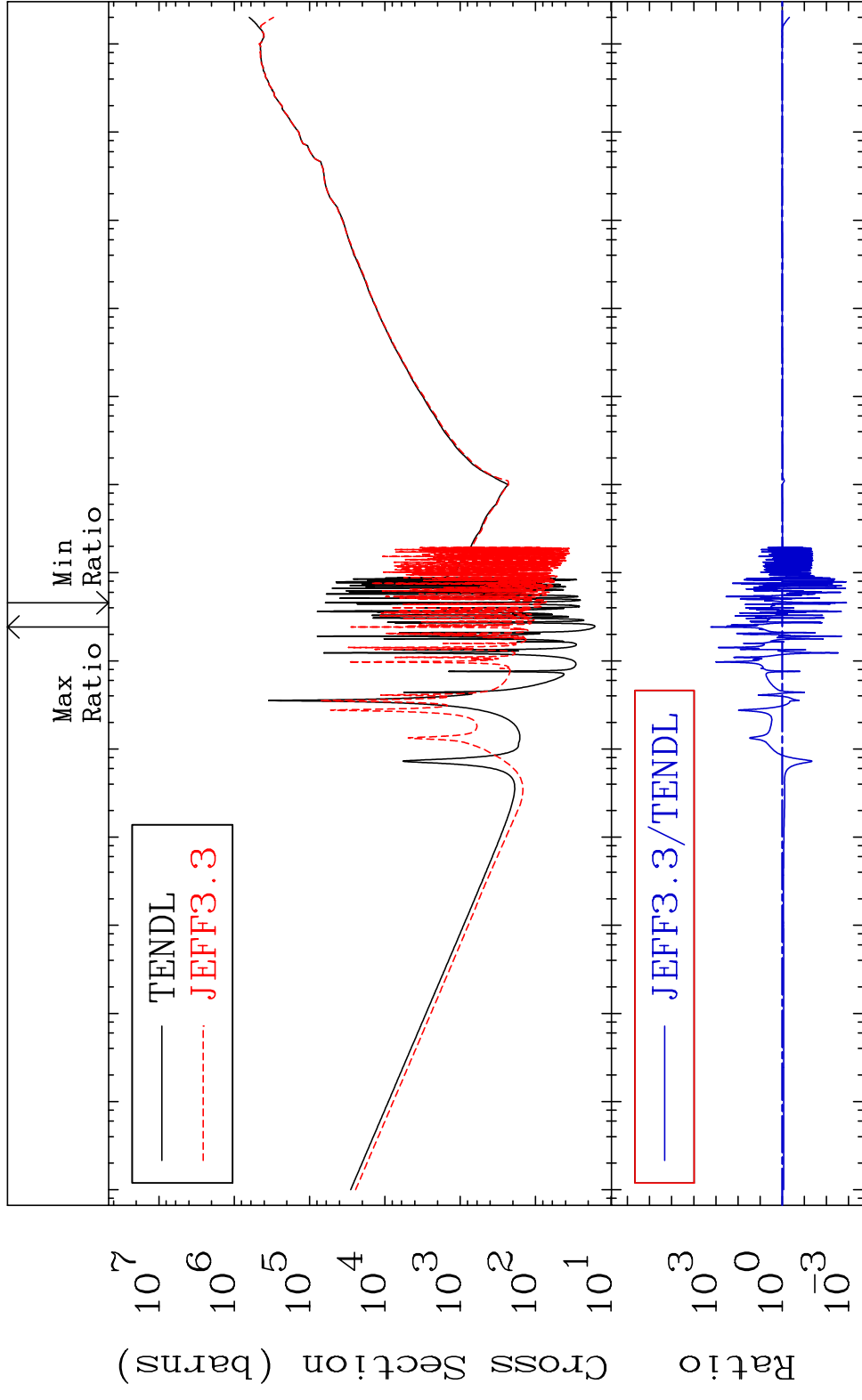


MAT 7122

Dpa total (eV-barns)

71-Lu-174

Cross Section -99.87 To 9999. %

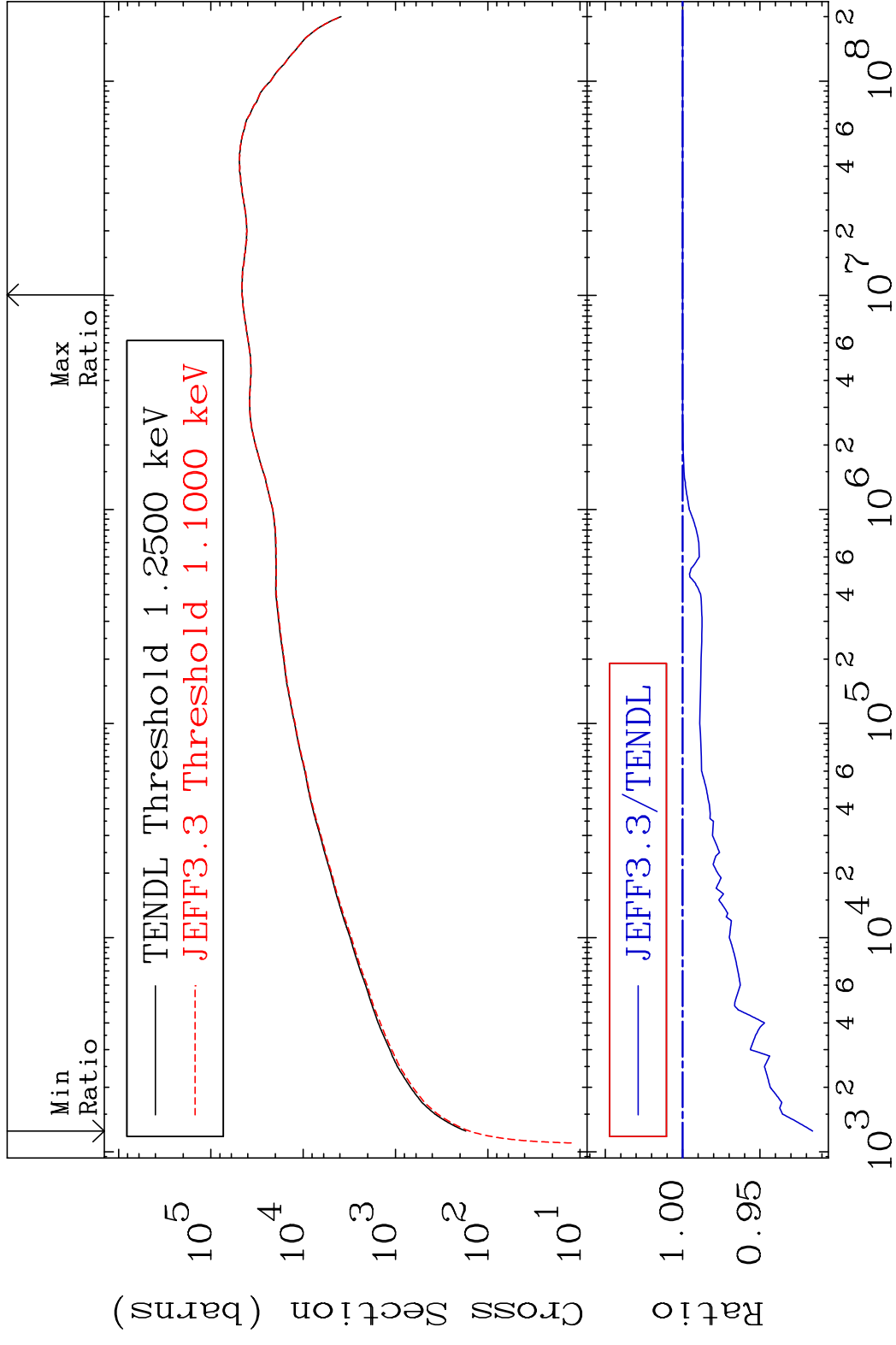


MAT 7122

Dpa elastic (mt2)

71-Lu-174

Cross Section -8.395 To 0.018 %

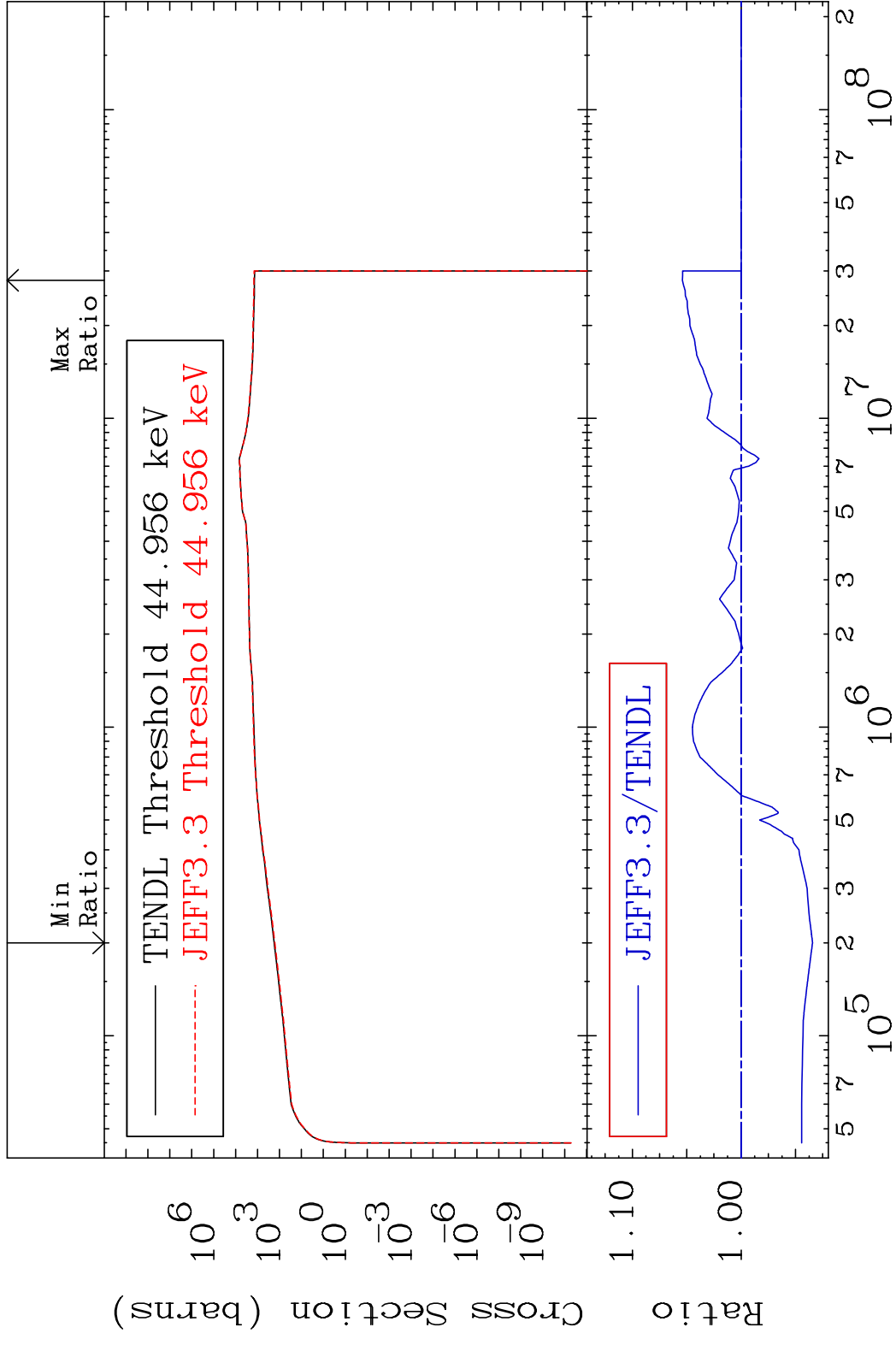


63

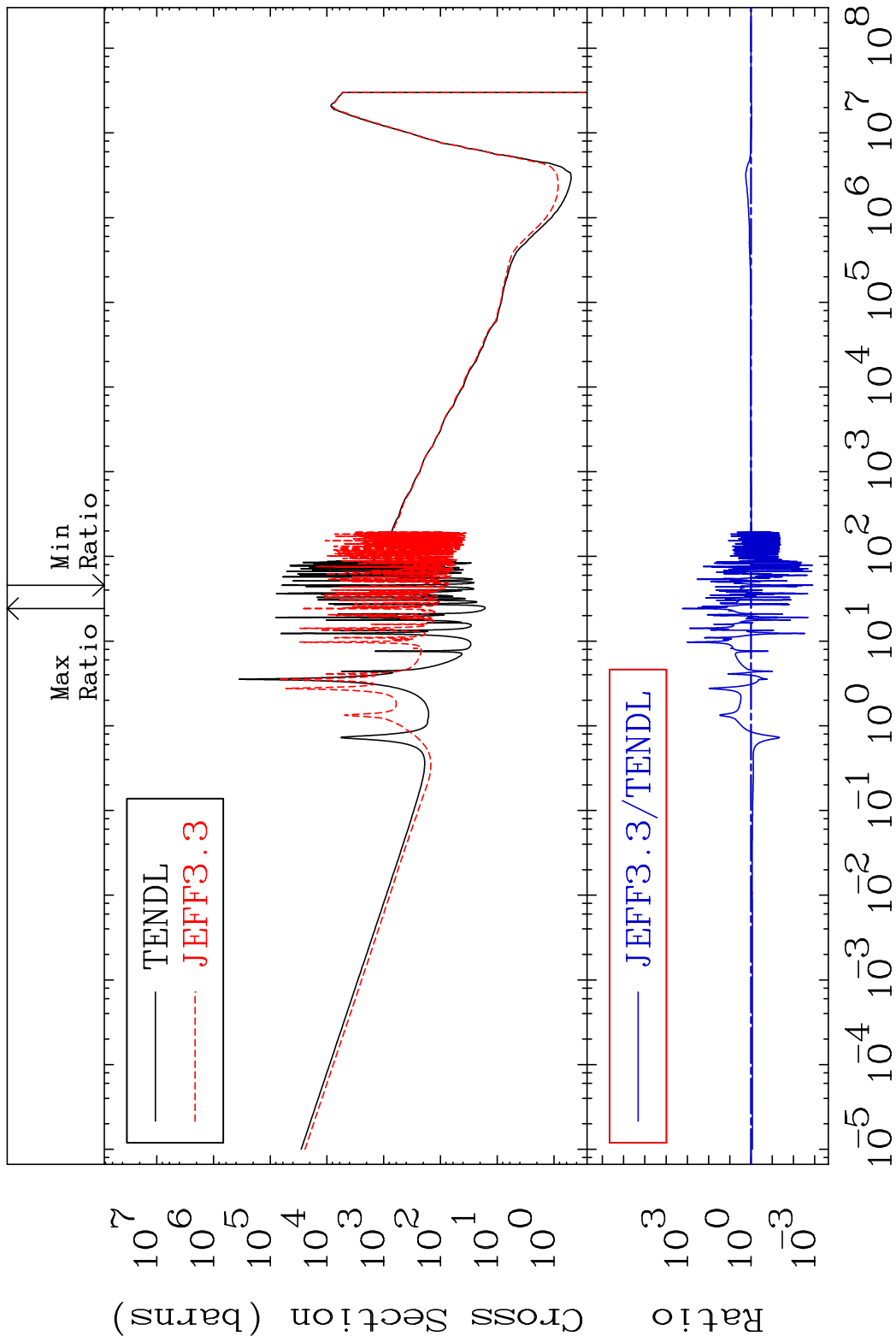
Incident Energy (eV)

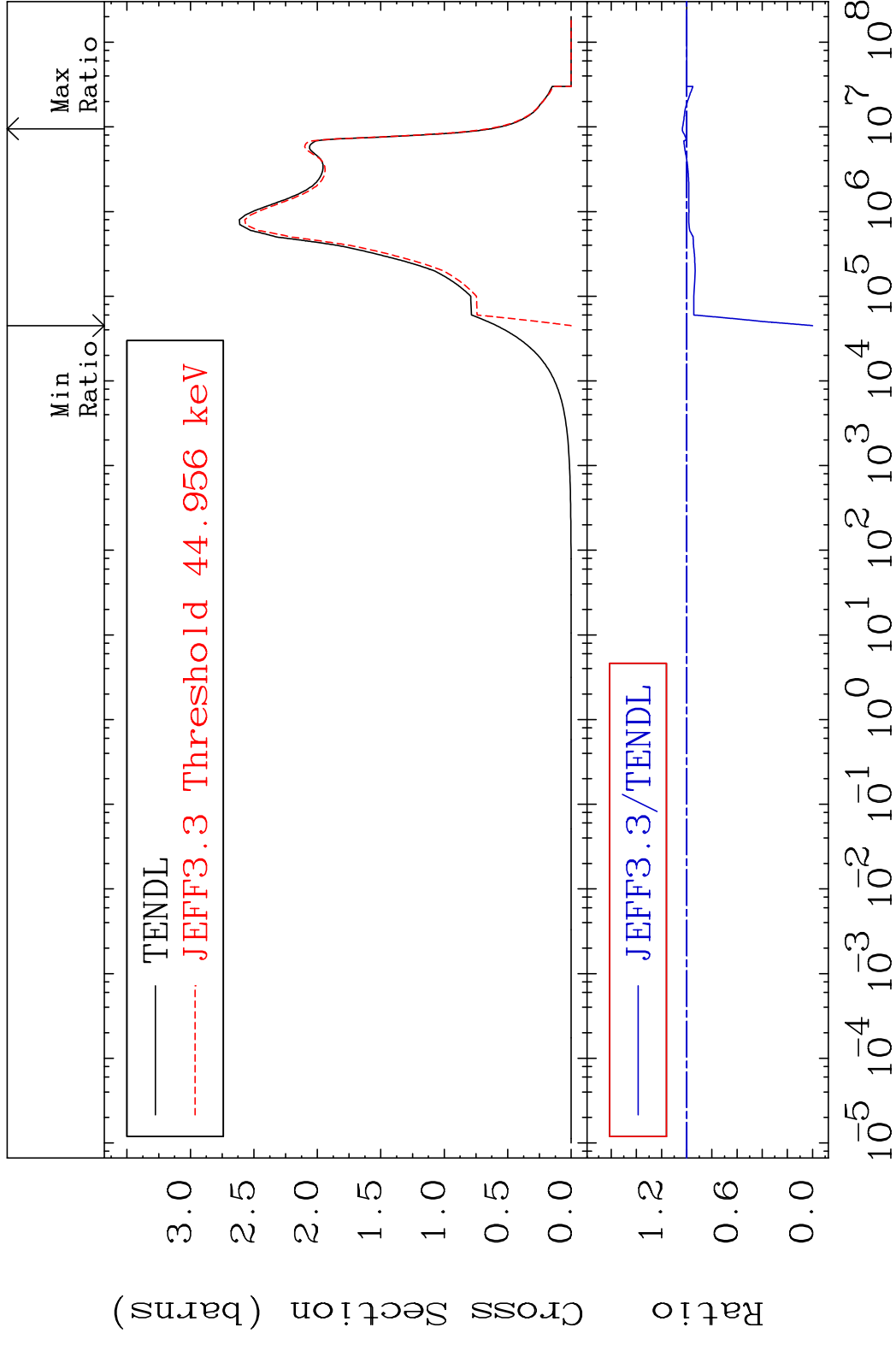
71-Lu-174

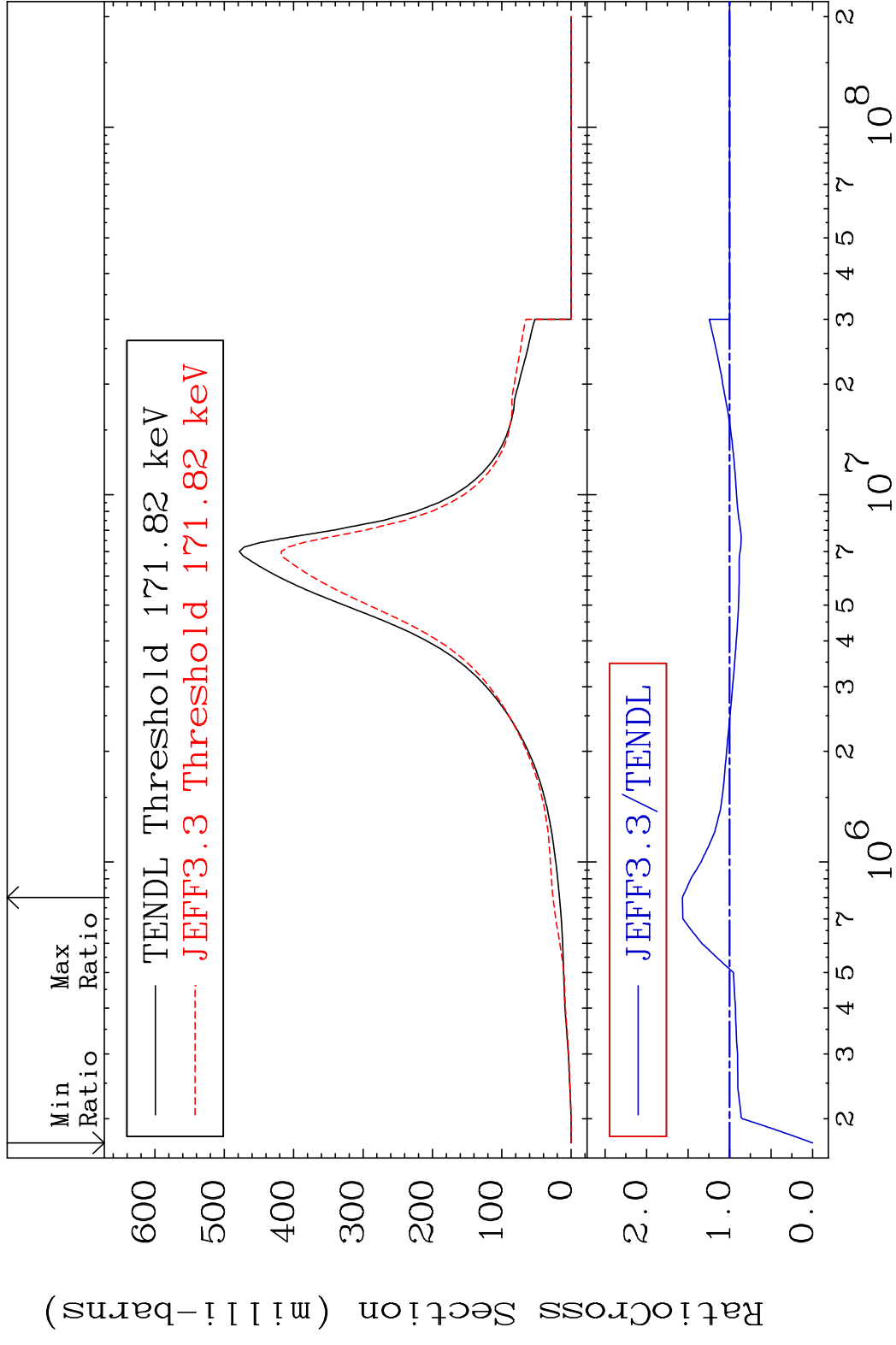
MAT 7122 Dpa inelastic (mt51-91) 71-Lu-174
 Cross Section -6.565 To 5.406 %

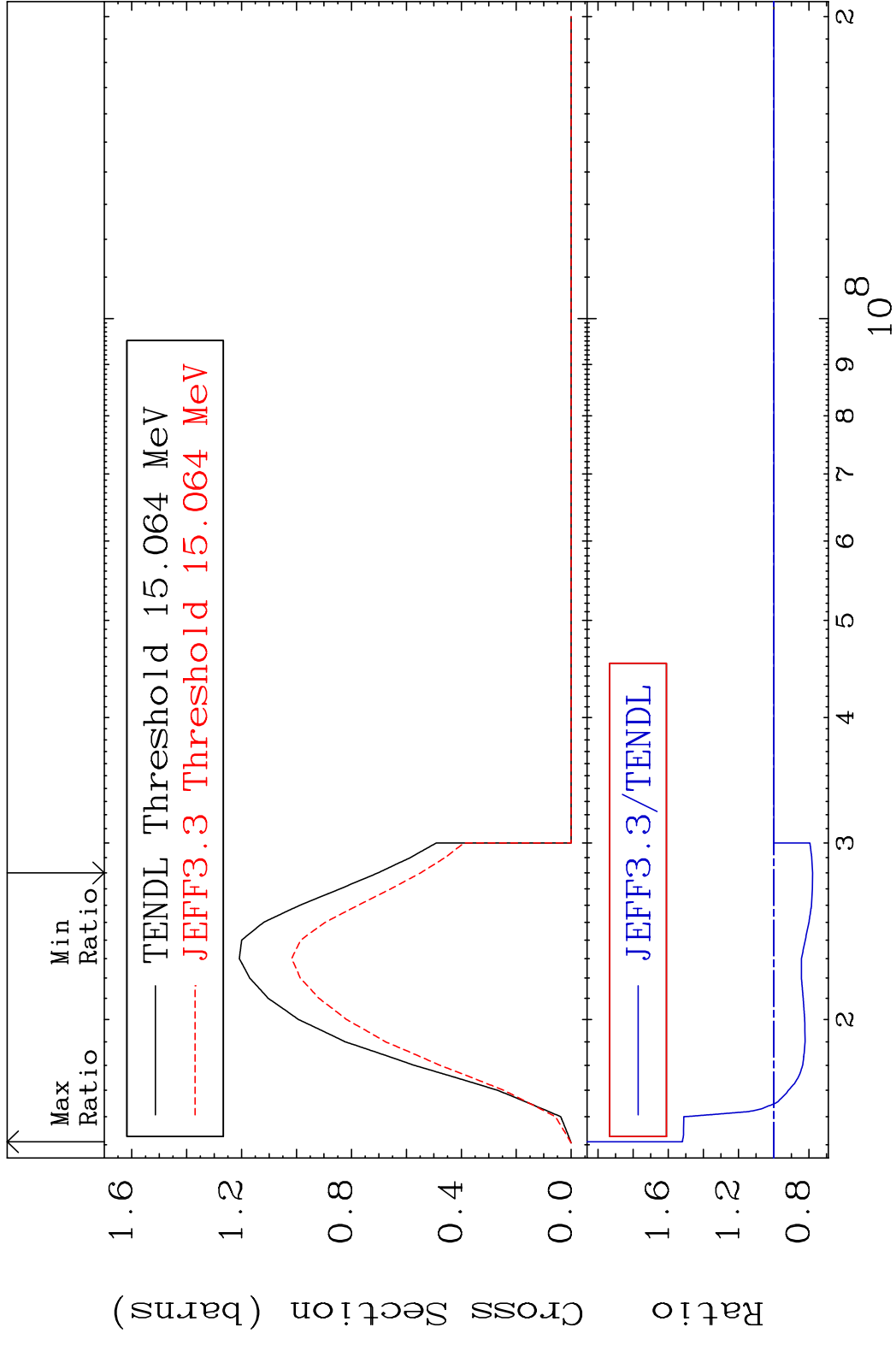


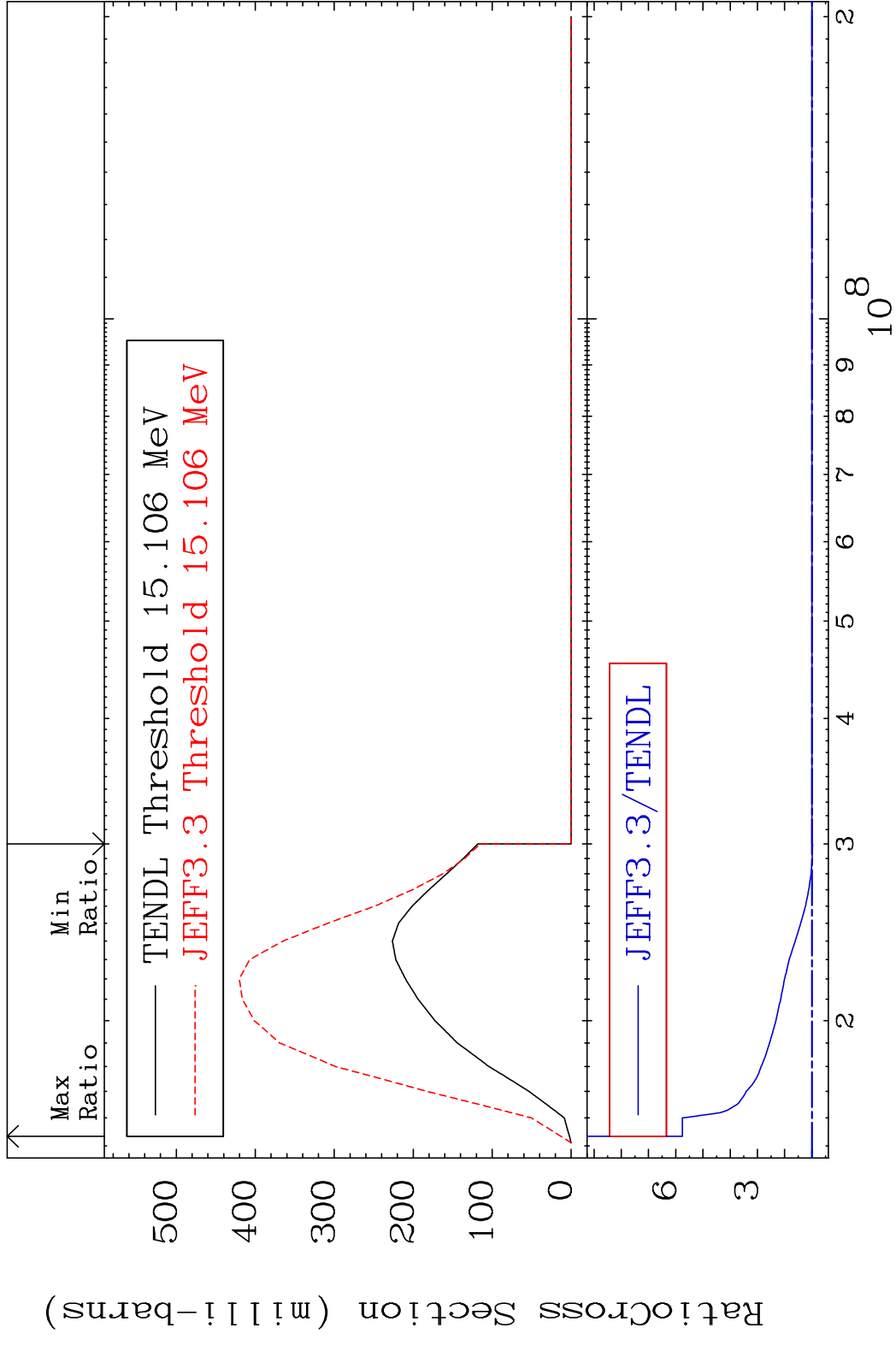
MAT 7122 Dpa disappearance (mt102 -120) 71-Lu-174
 Cross Section -99.87 To 9999. %



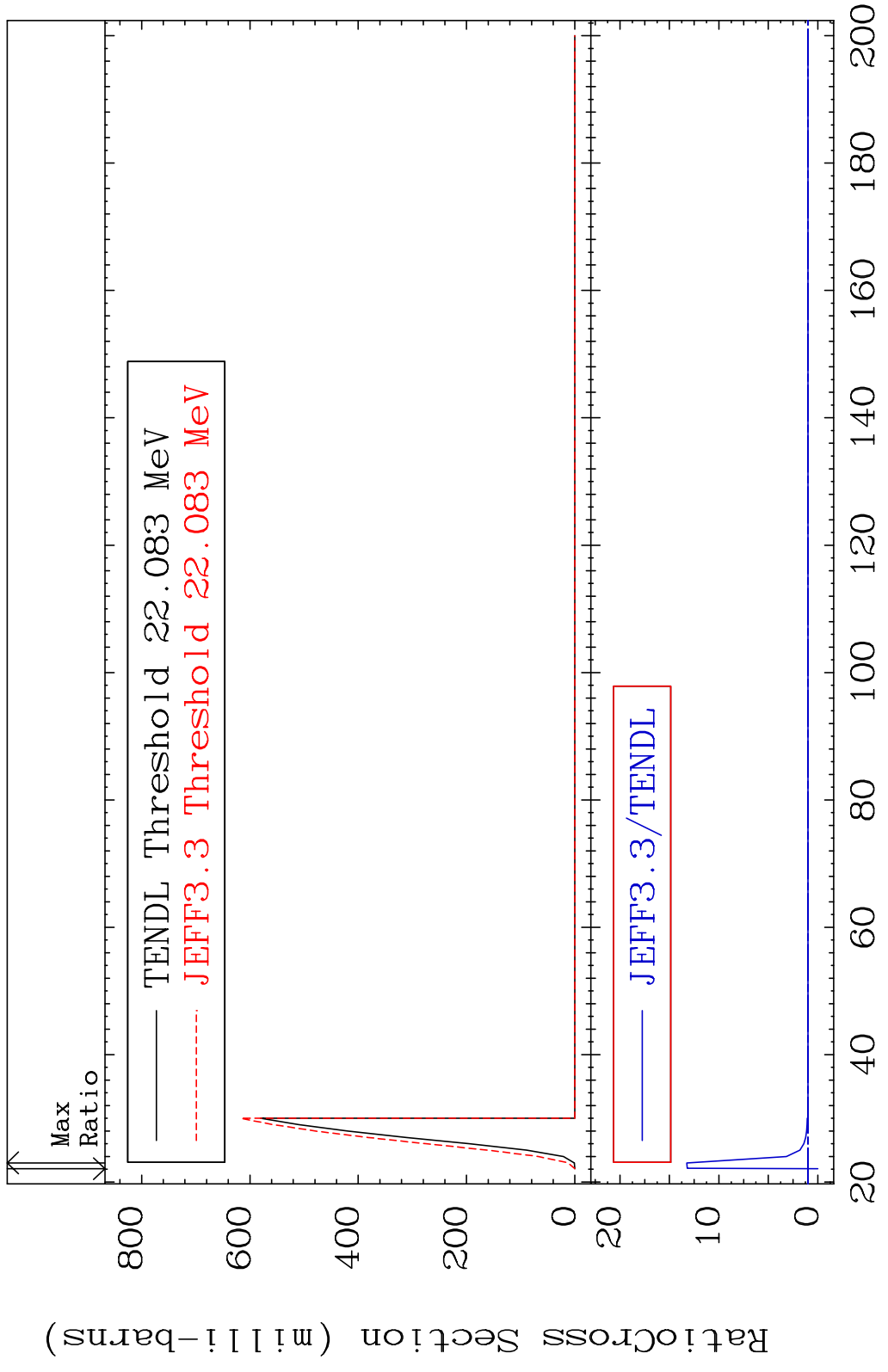








MAT 7122 (n,4n):71-Lu-171g 71-Lu-174
 Radionuclide Production Cross Section 180.01 dth 1225. %



70 Incident Energy (MeV) 71-Lu-174

MAT 7122 (n, 4n):71-Lu-171m1 71-Lu-174
 Radionuclide Production Cross Section 1611. %

