

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

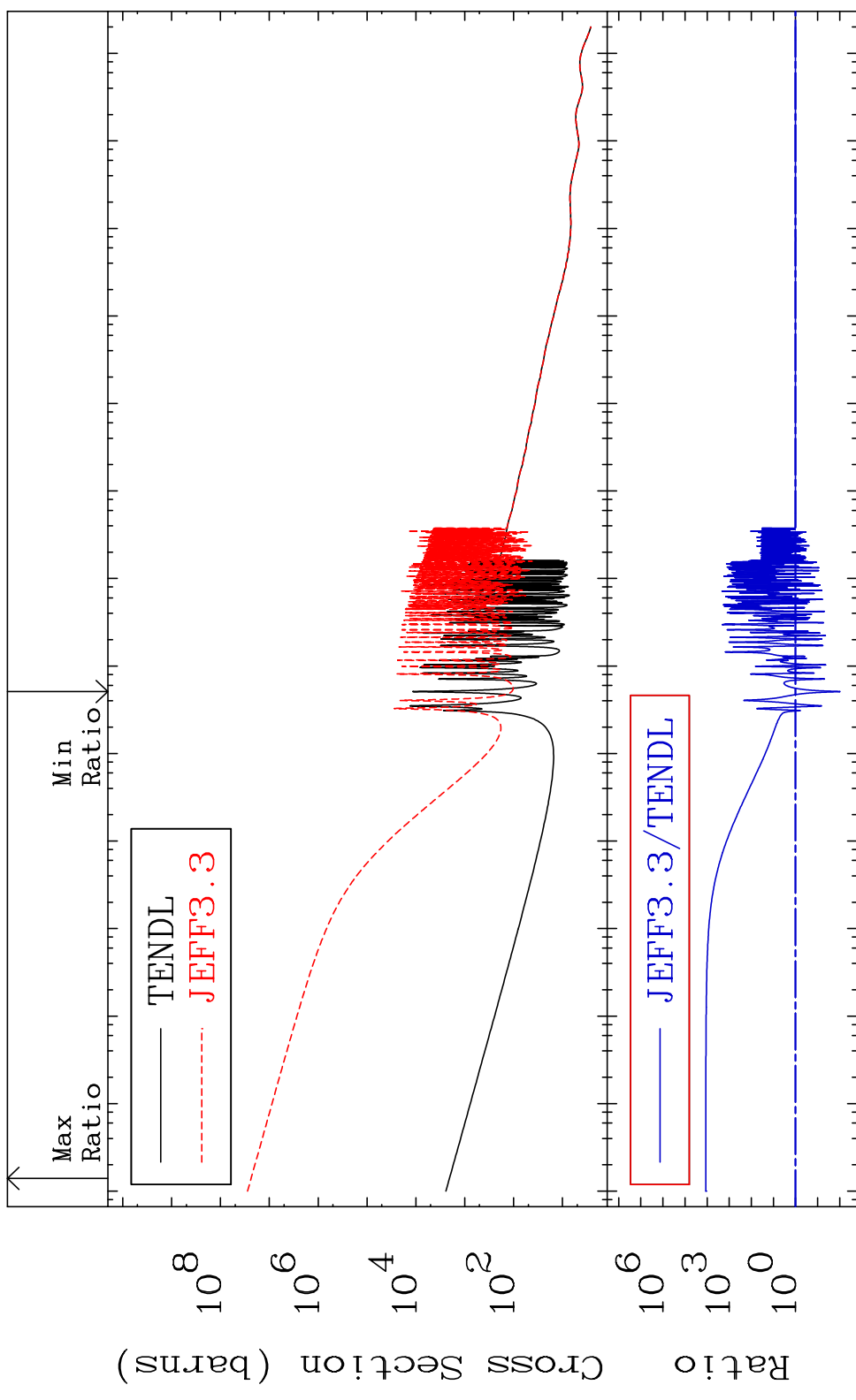
Press Mouse Button to Start

MAT 7119

Total

71-Lu-173

Cross Section -99.07 To 9999. %



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

1

Incident Energy (eV)

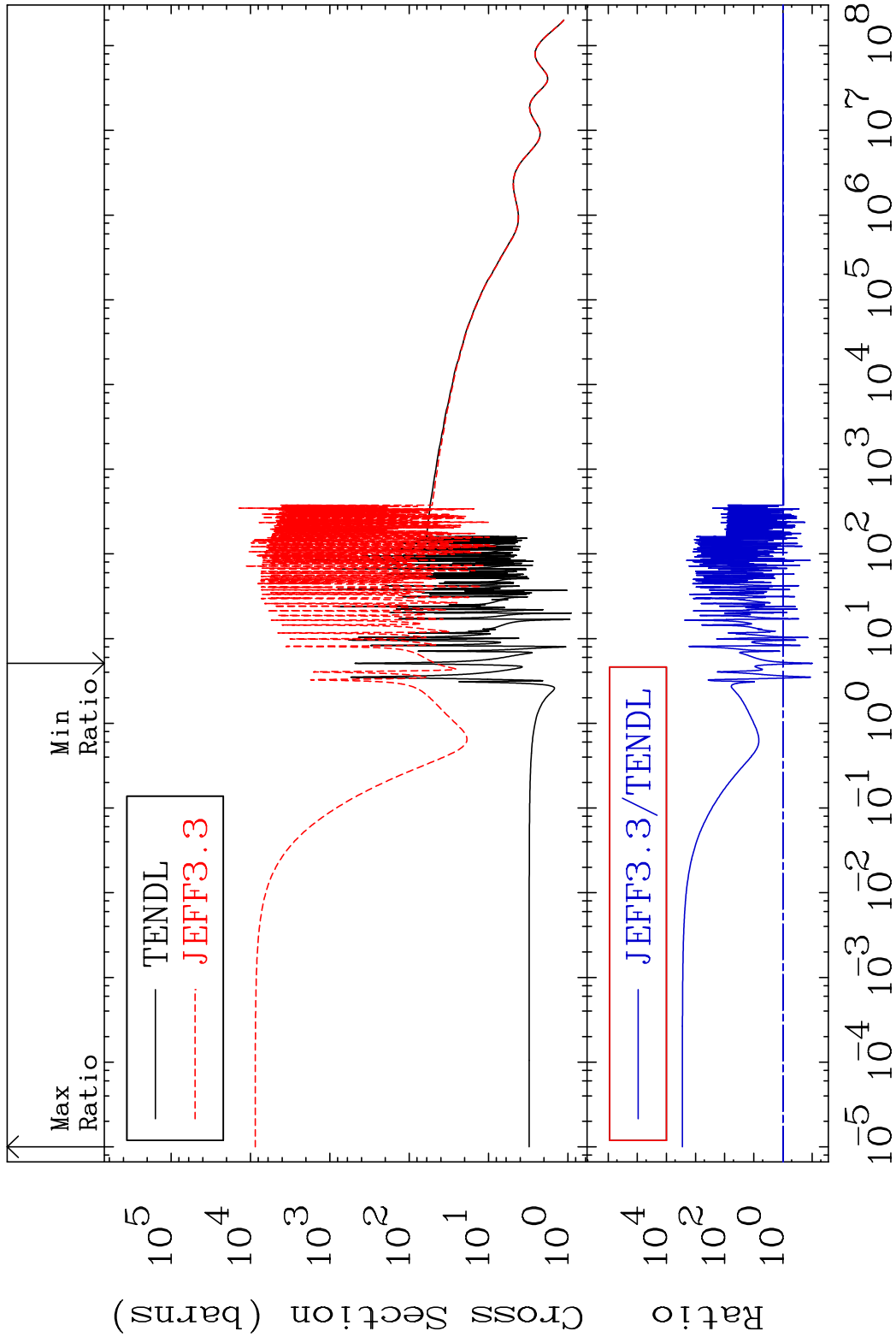
71-Lu-173

MAT 7119

Elastic

71-Lu-173

Cross Section -90.38 To 9999. %



2

Incident Energy (eV)

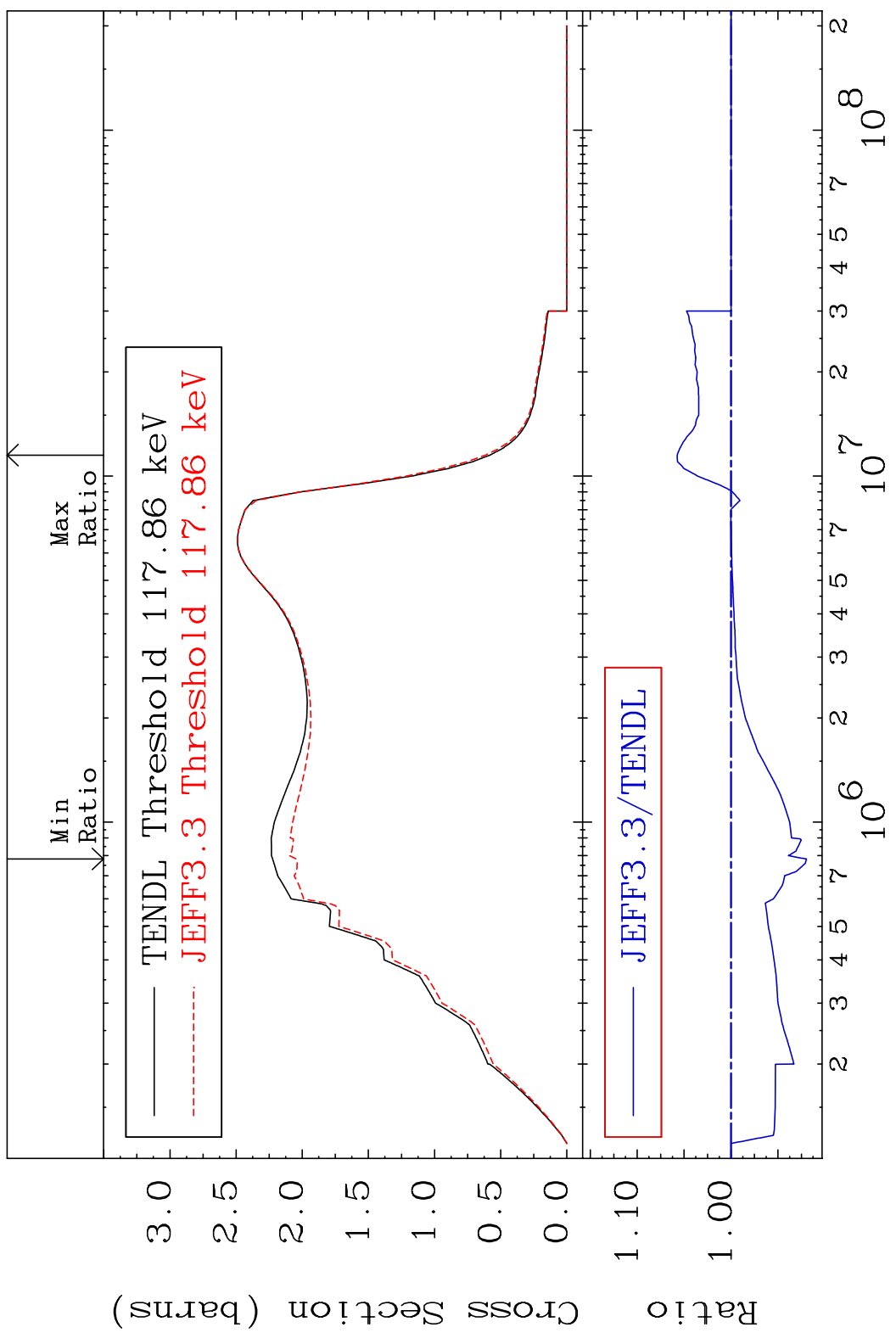
71-Lu-173

MAT 7119

Inelastic

71-Lu-173

Cross Section -8.035 To 5.739 %

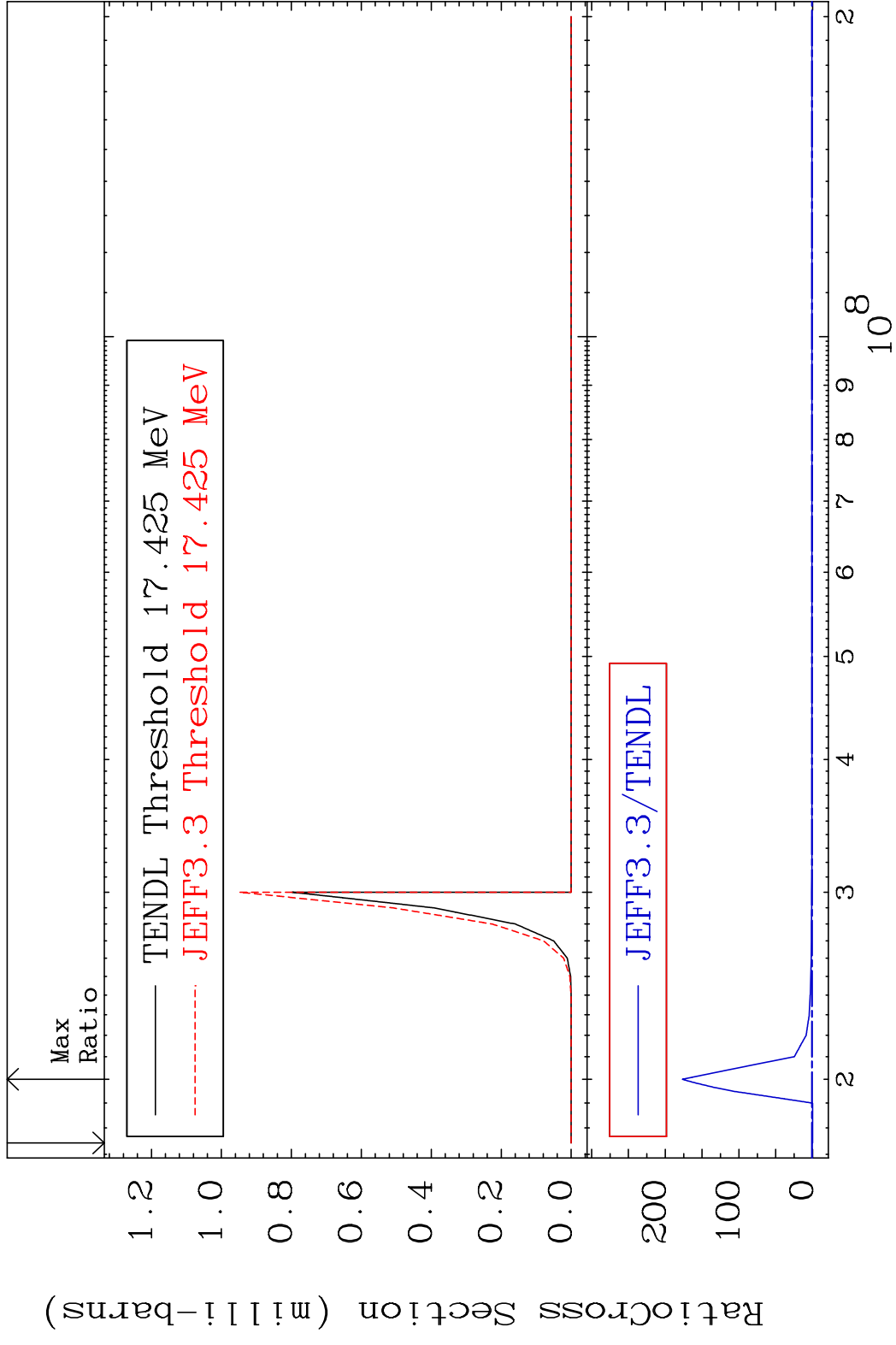


MAT 7119

(n,2n) d

71-Lu-173

Cross Section -100.0 To 9999. %

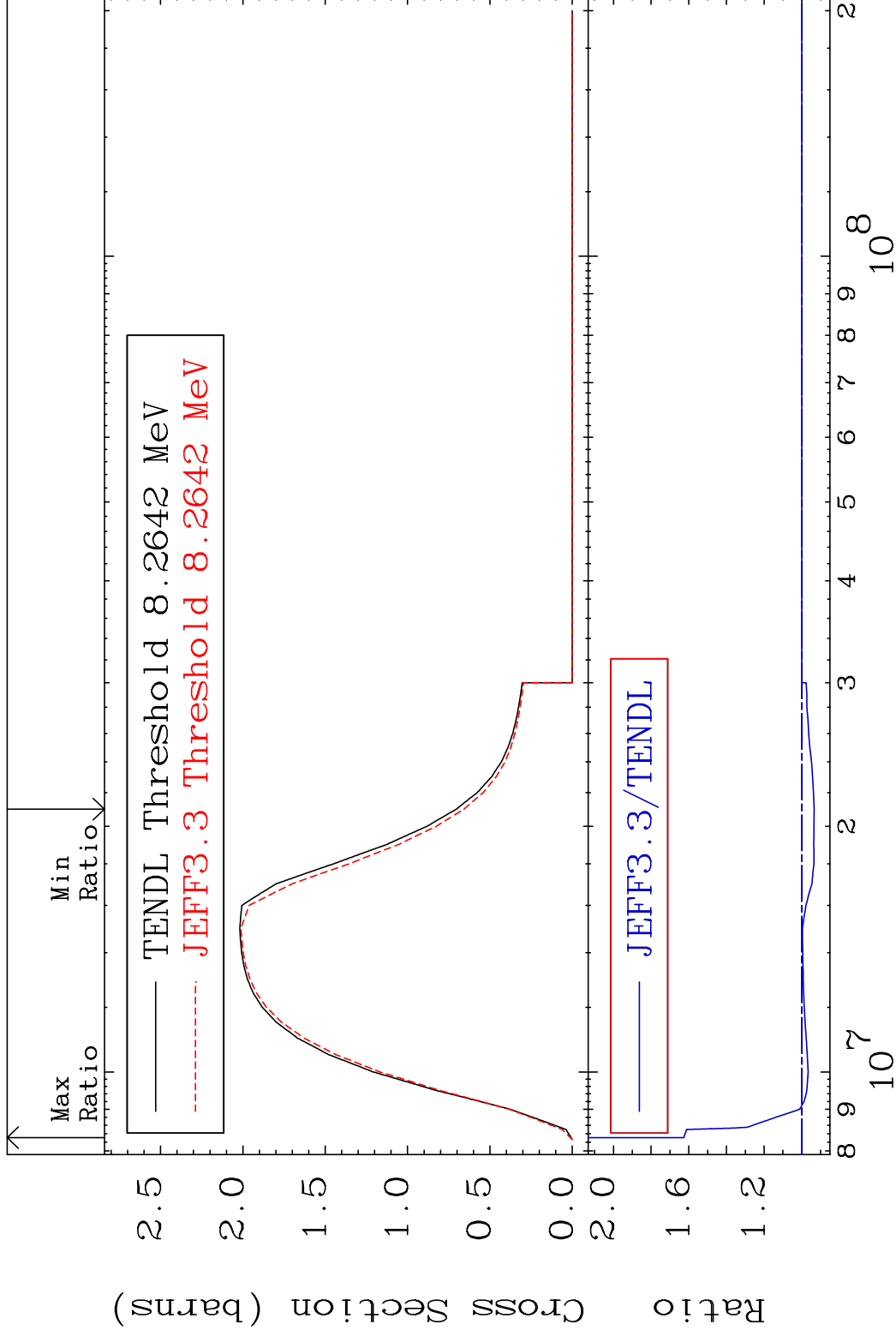


MAT 7119

(n,2n)

71-Lu-173

Cross Section -6.541 To 62.73 %



5

Incident Energy (eV)

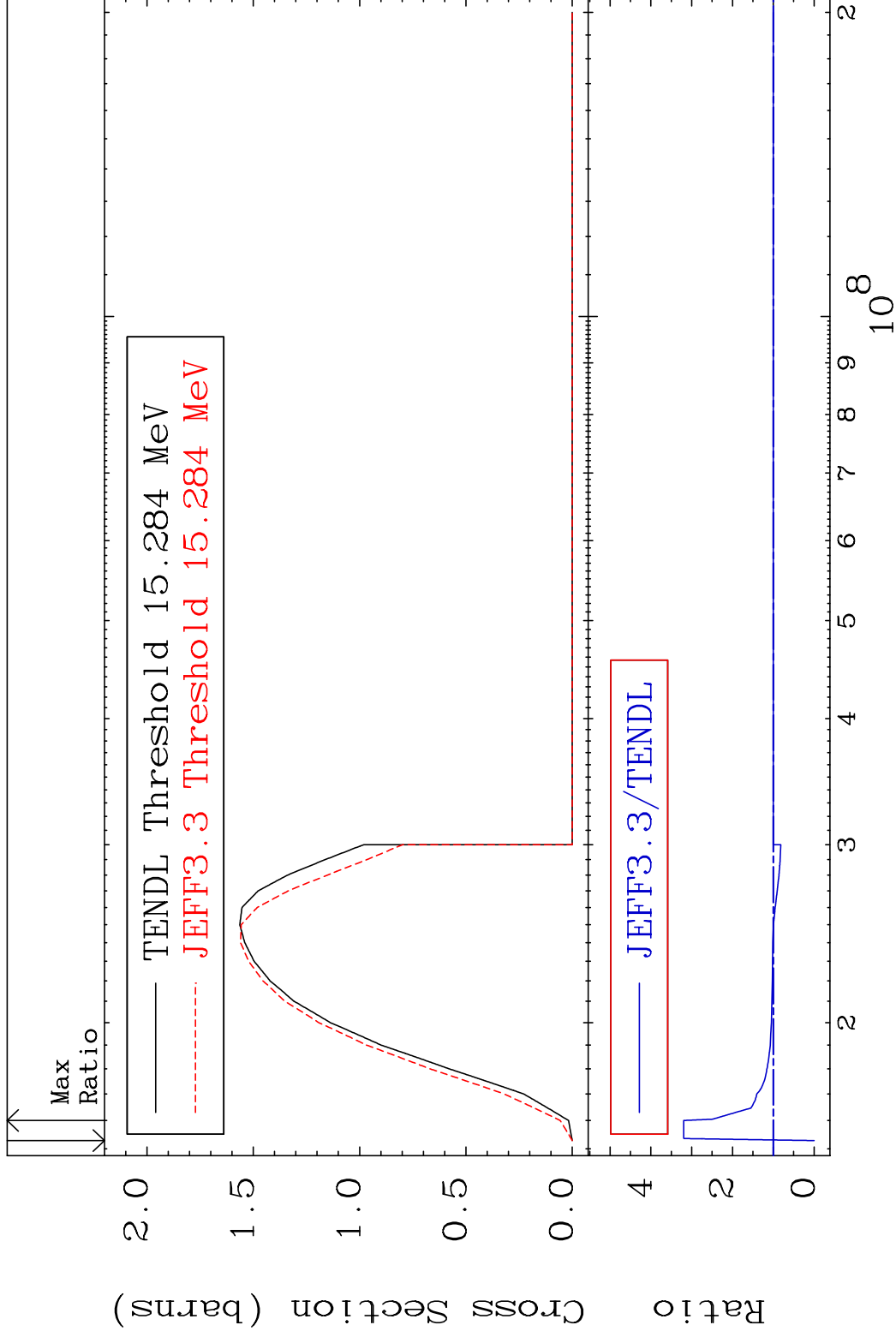
71-Lu-173

MAT 7119

(n,3n)

71-Lu-173

Cross Section -100.0 To 219.7 %



6

Incident Energy (eV)

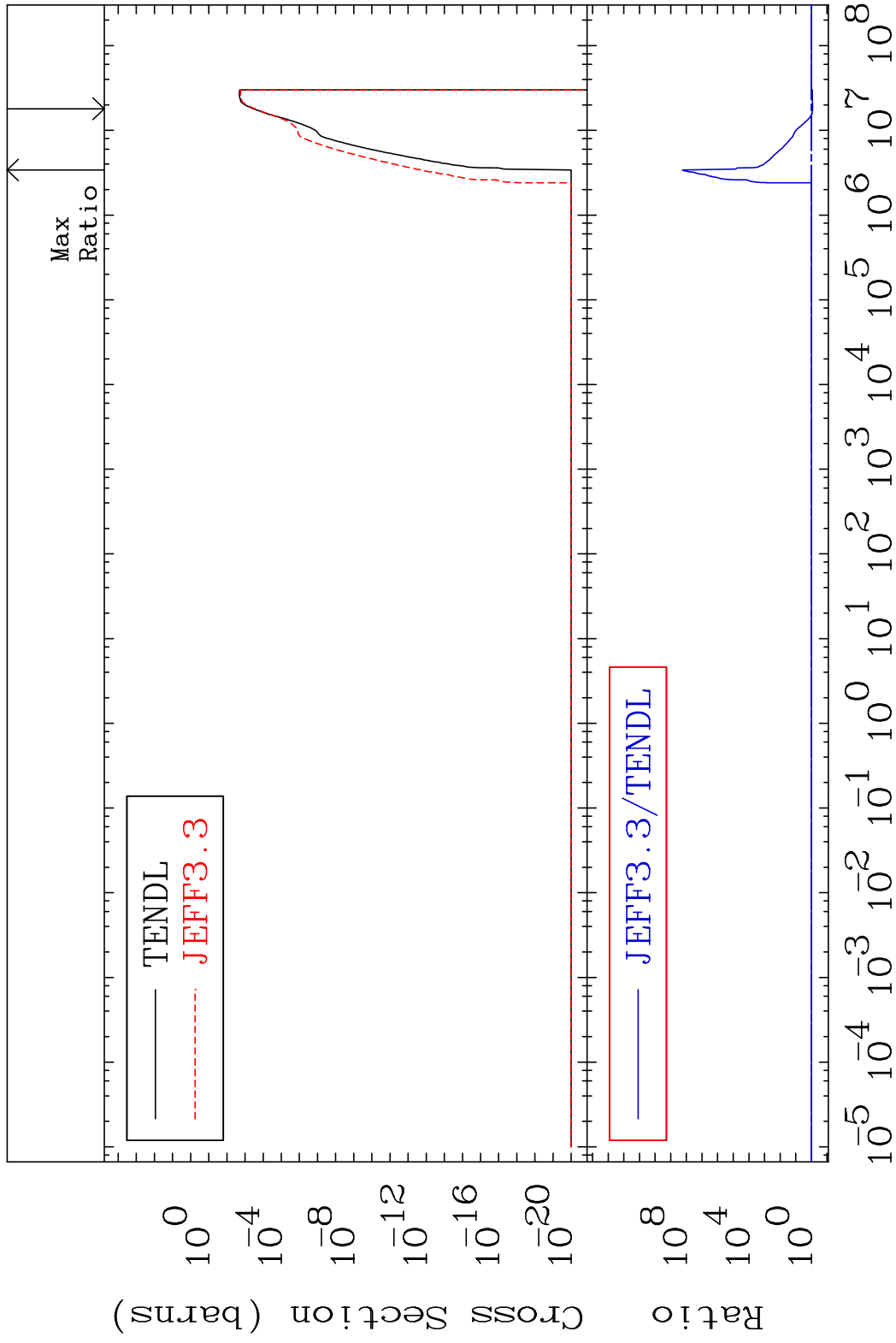
71-Lu-173

MAT 7119

(n, n') α

71-Lu-173

Cross Section -16.12 To 9999. %



7

Incident Energy (eV)

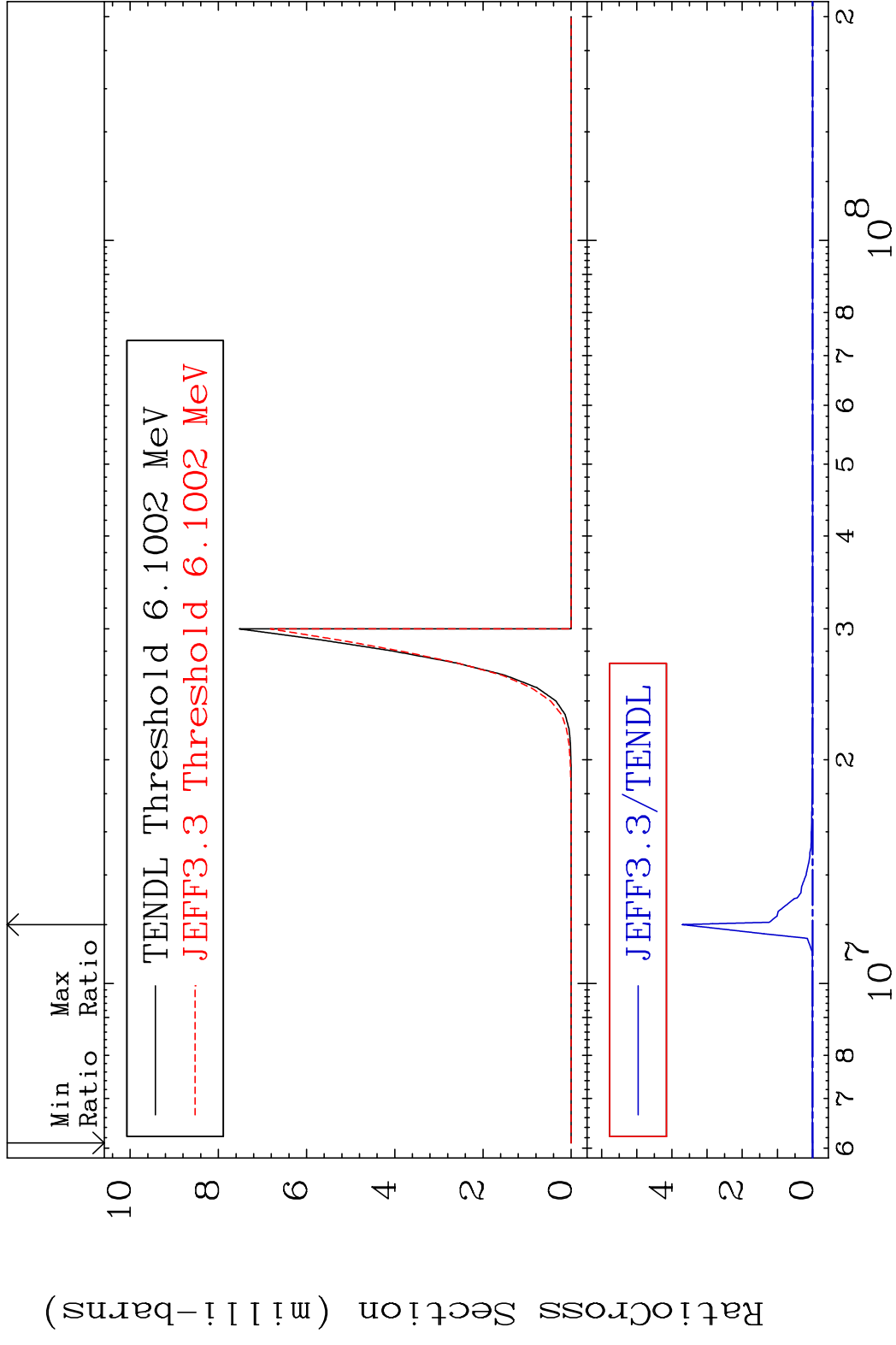
71-Lu-173

MAT 7119

71-Lu-173

(n,2n) α

Cross Section -100.0 To 9999. %



8

Incident Energy (eV)

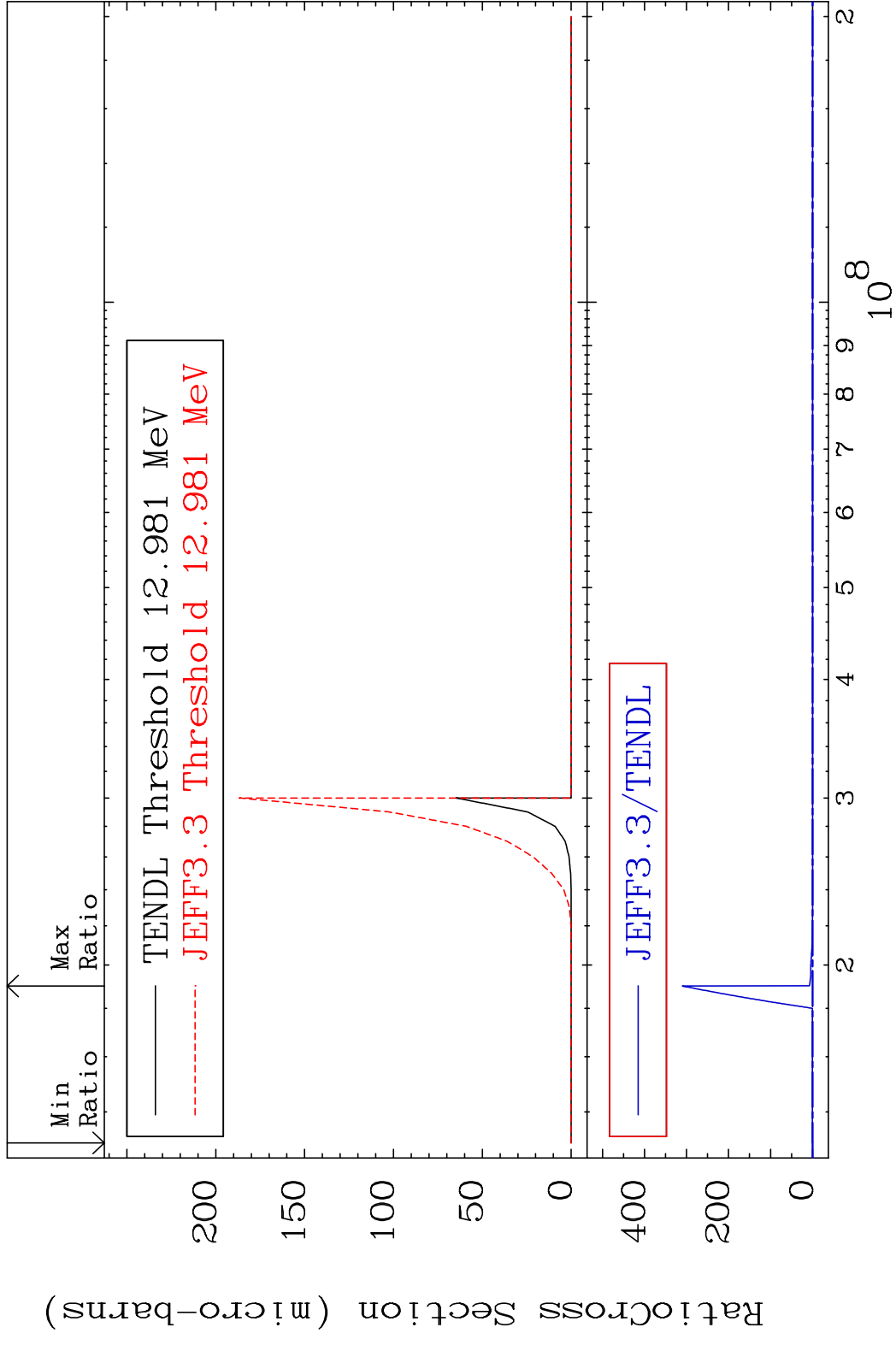
71-Lu-173

MAT 7119

(n,3n) α

71-Lu-173

Cross Section -100.0 To 9999. %

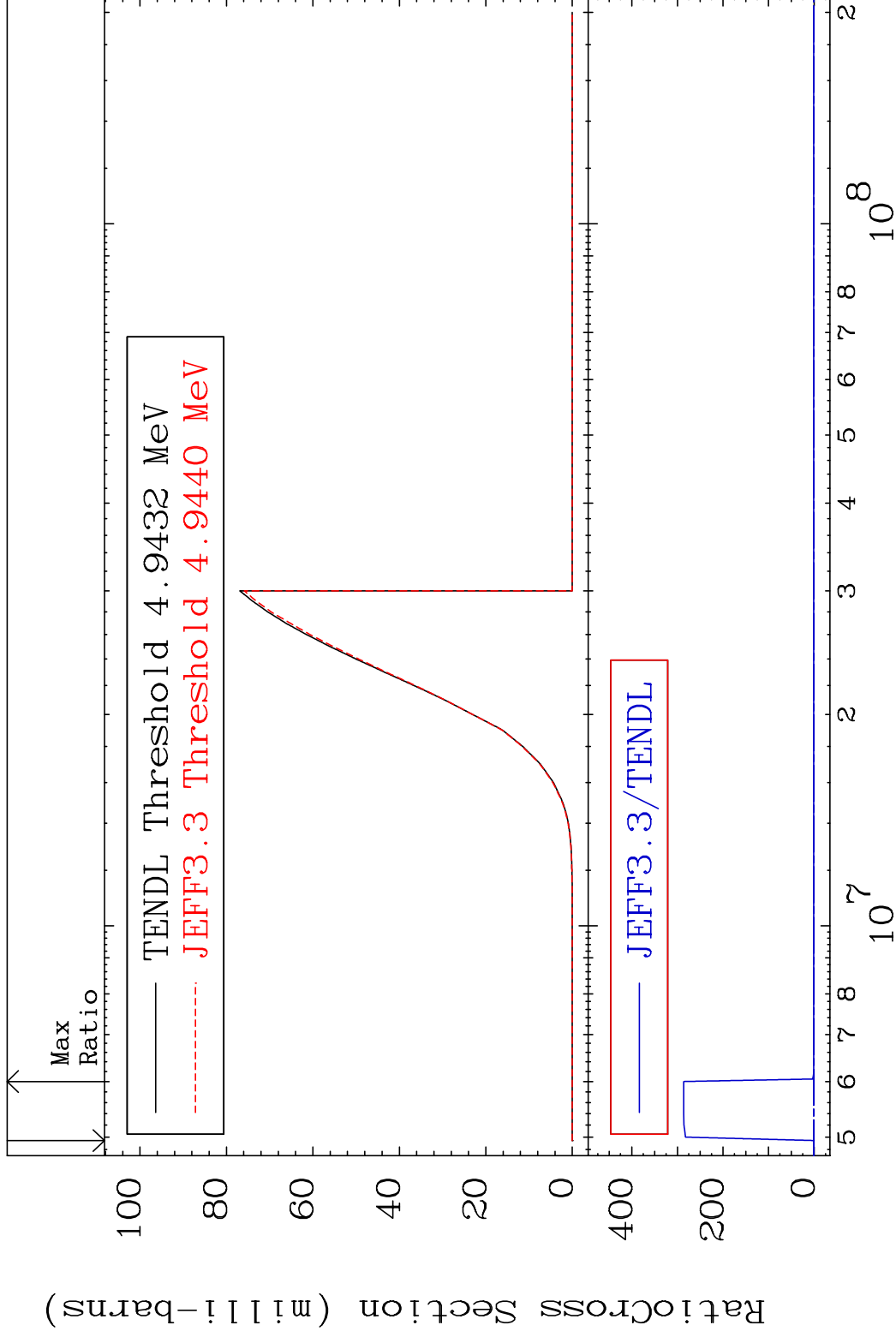


MAT 7119

(n, n') p

71-Lu-173

Cross Section -100.0 To 9999. %



10

Incident Energy (eV)

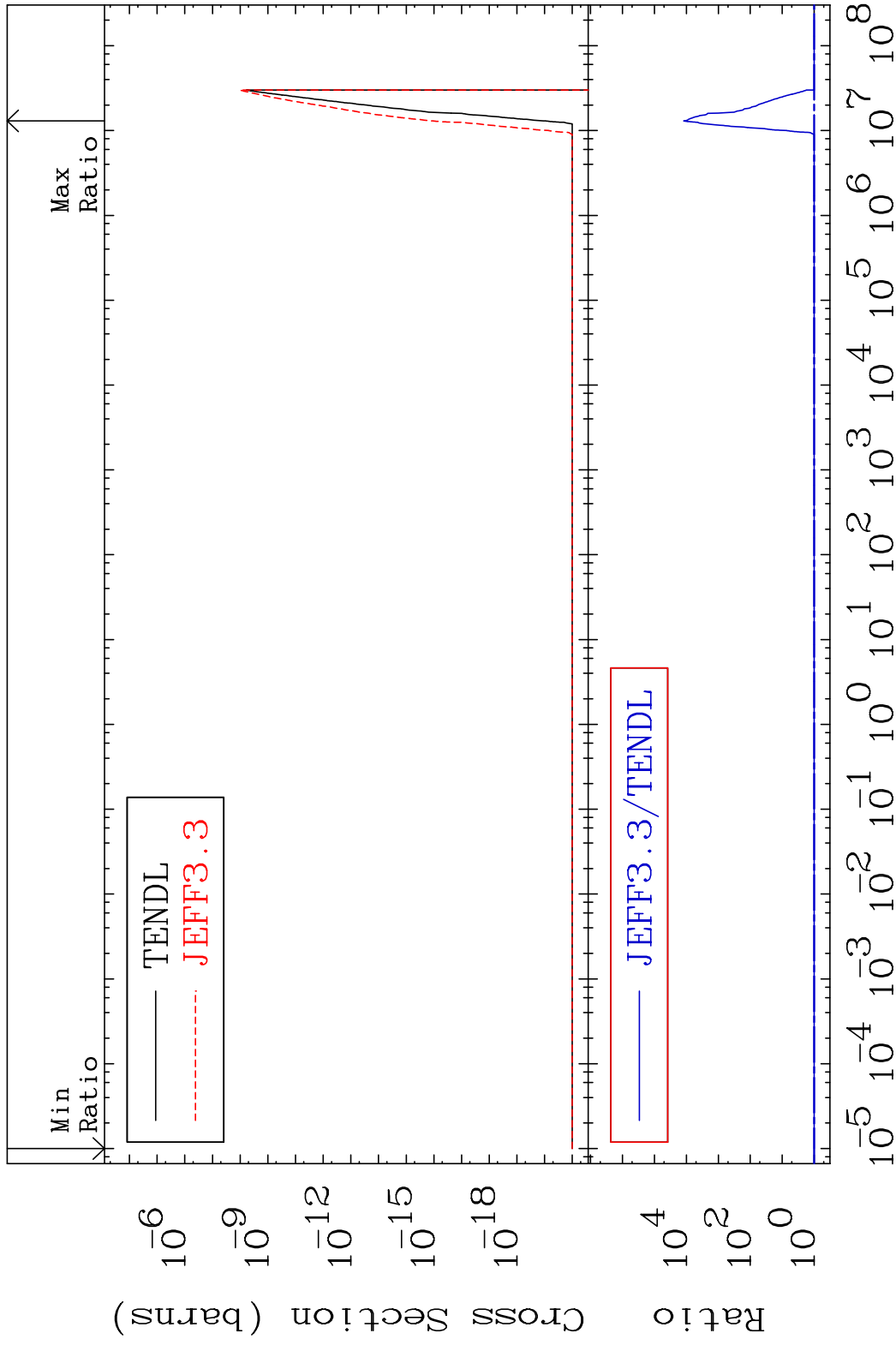
71-Lu-173

MAT 7119

(n, n') 2α

71-Lu-173

Cross Section 0.000 To 9999. %

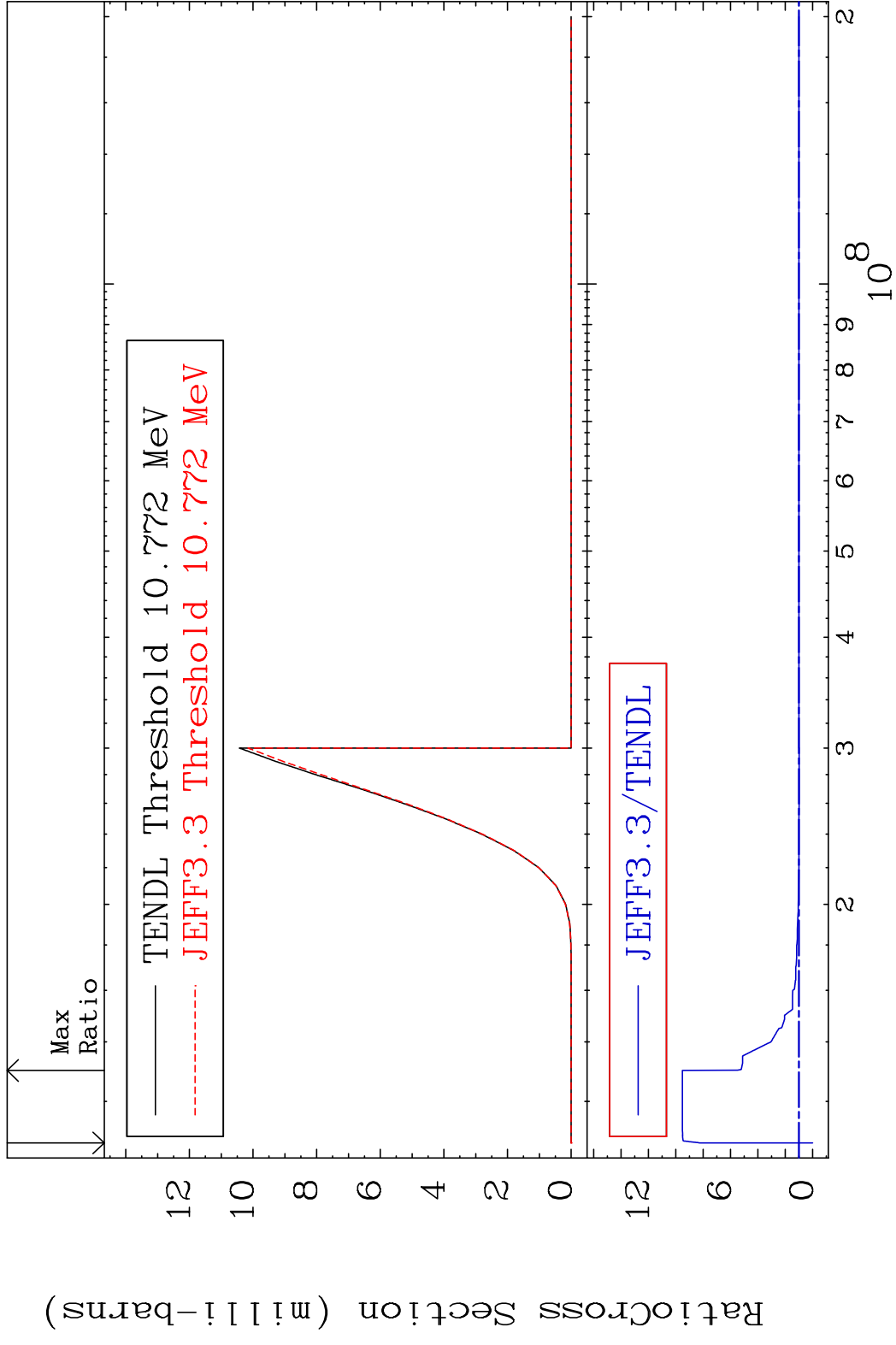


MAT 7119

(n, n') d

71-Lu-173

Cross Section -100.0 To 852.1 %

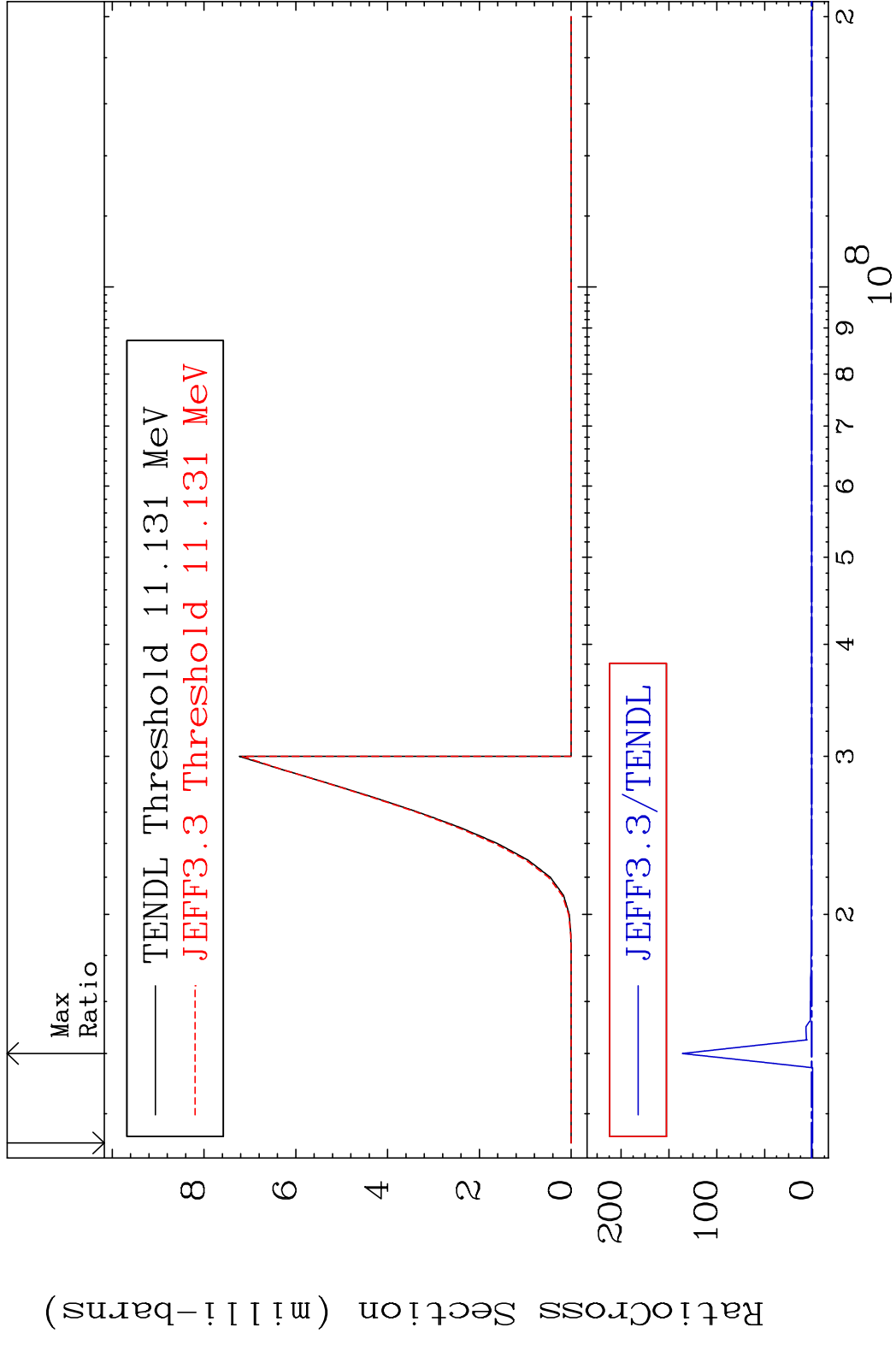


MAT 7119

(n, n') t

71-Lu-173

Cross Section -100.0 To 9999. %

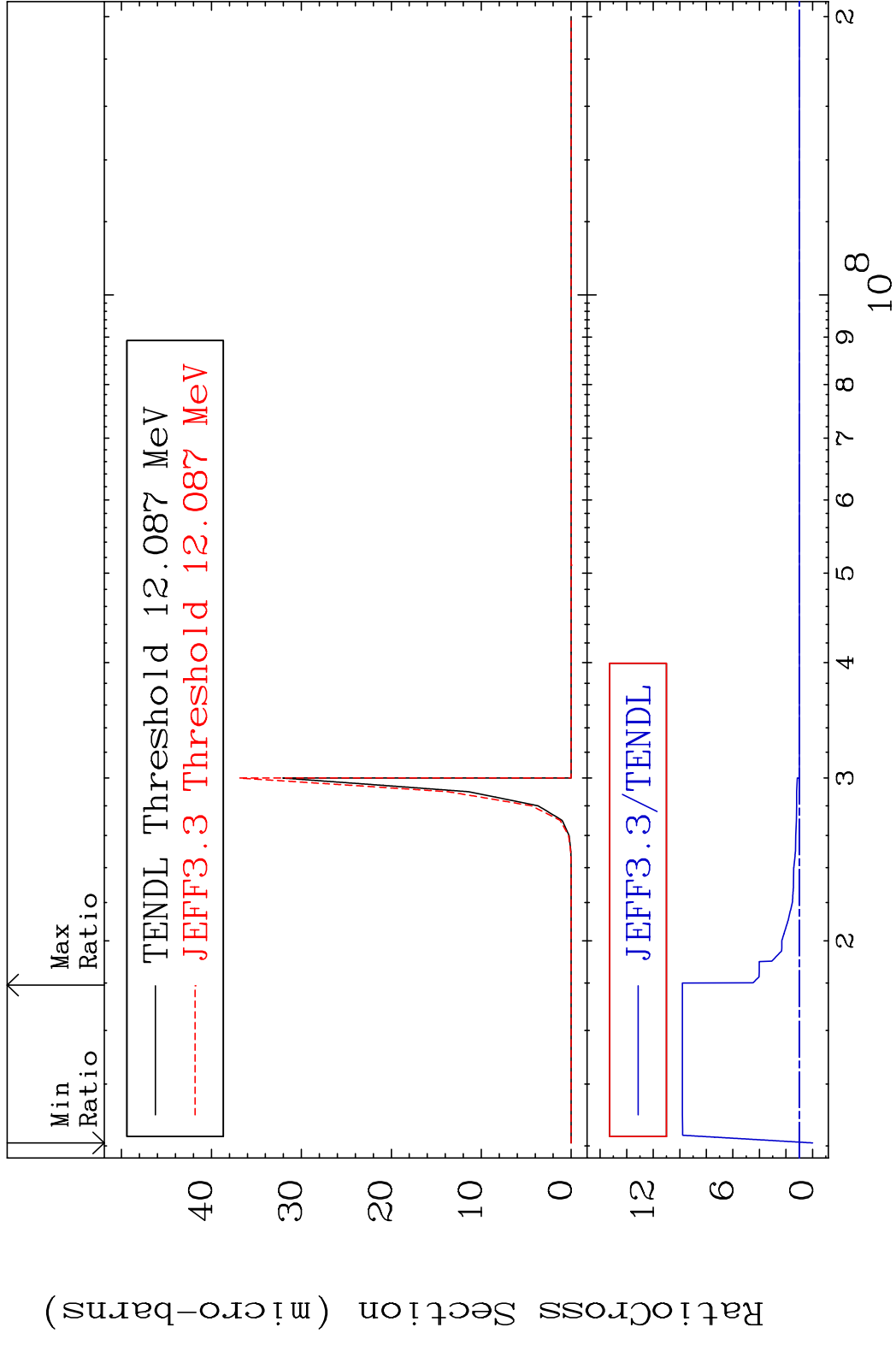


MAT 7119

(n,n') He-3

71-Lu-173

Cross Section -100.0 To 880.6 %

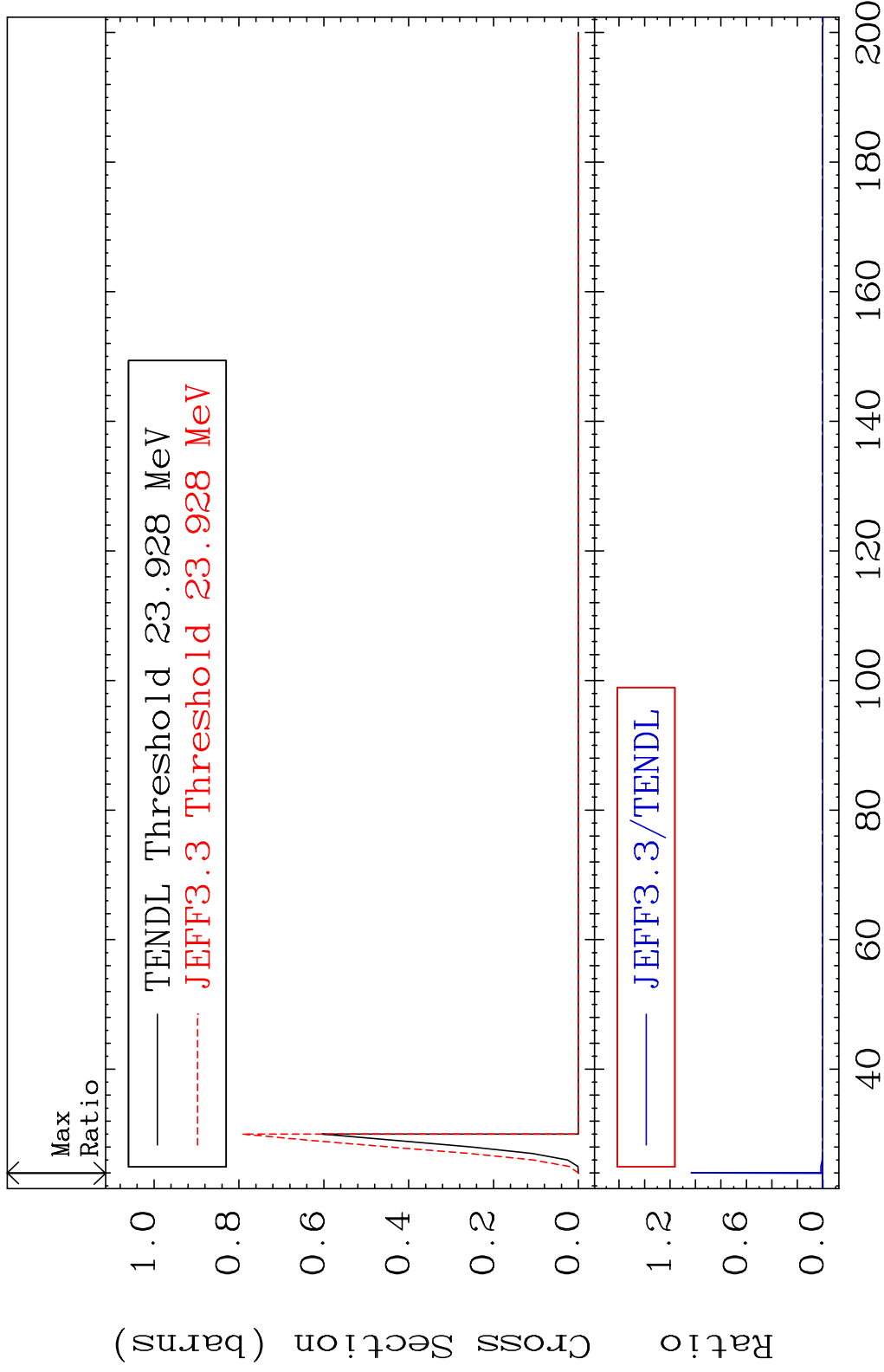


MAT 7119

(n,4n)

71-Lu-173

Cross Section -100.0 To 9999. %



15

Incident Energy (MeV)

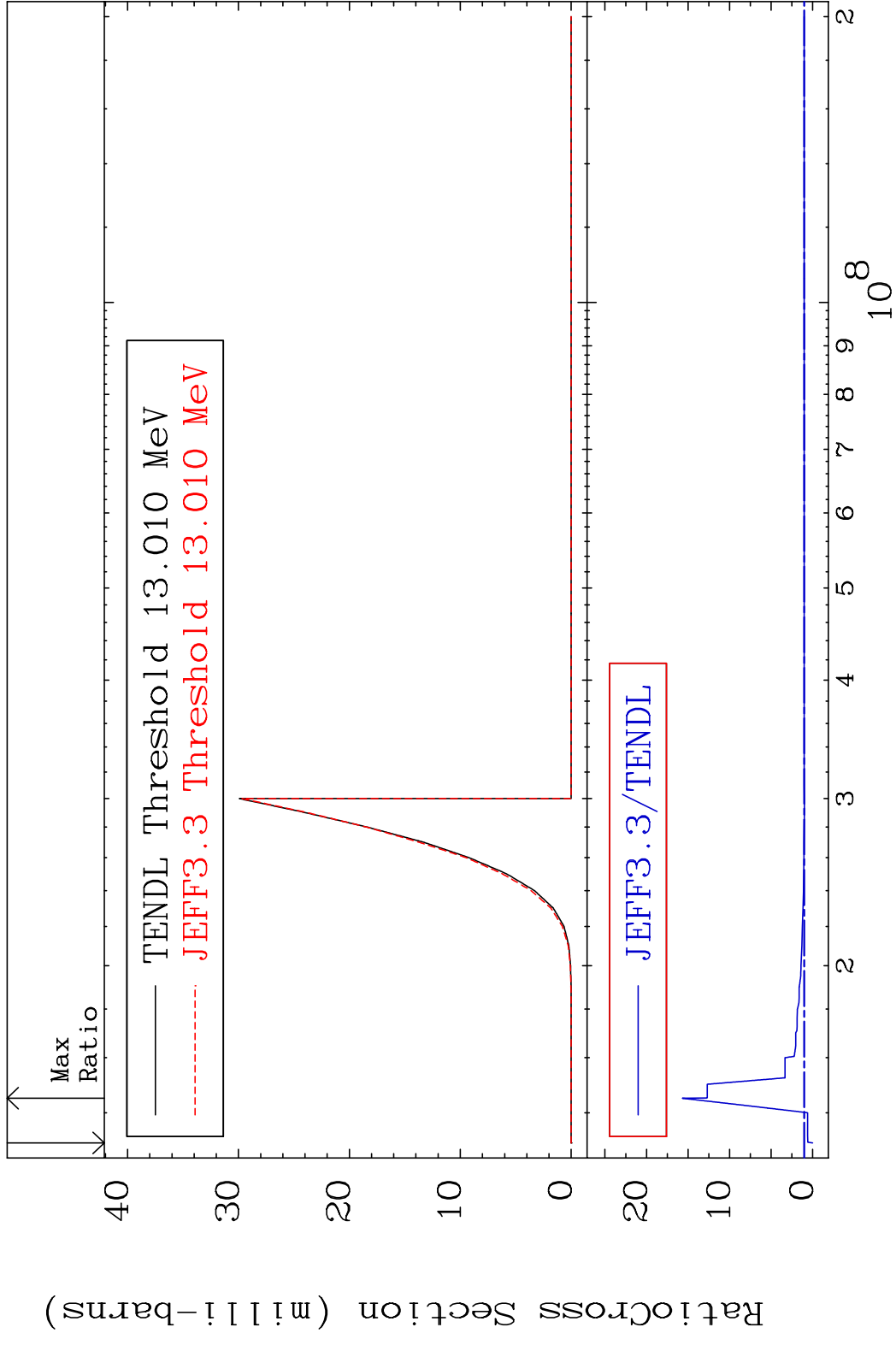
71-Lu-173

MAT 7119

(n,2n) p

71-Lu-173

Cross Section -100.0 To 1468. %

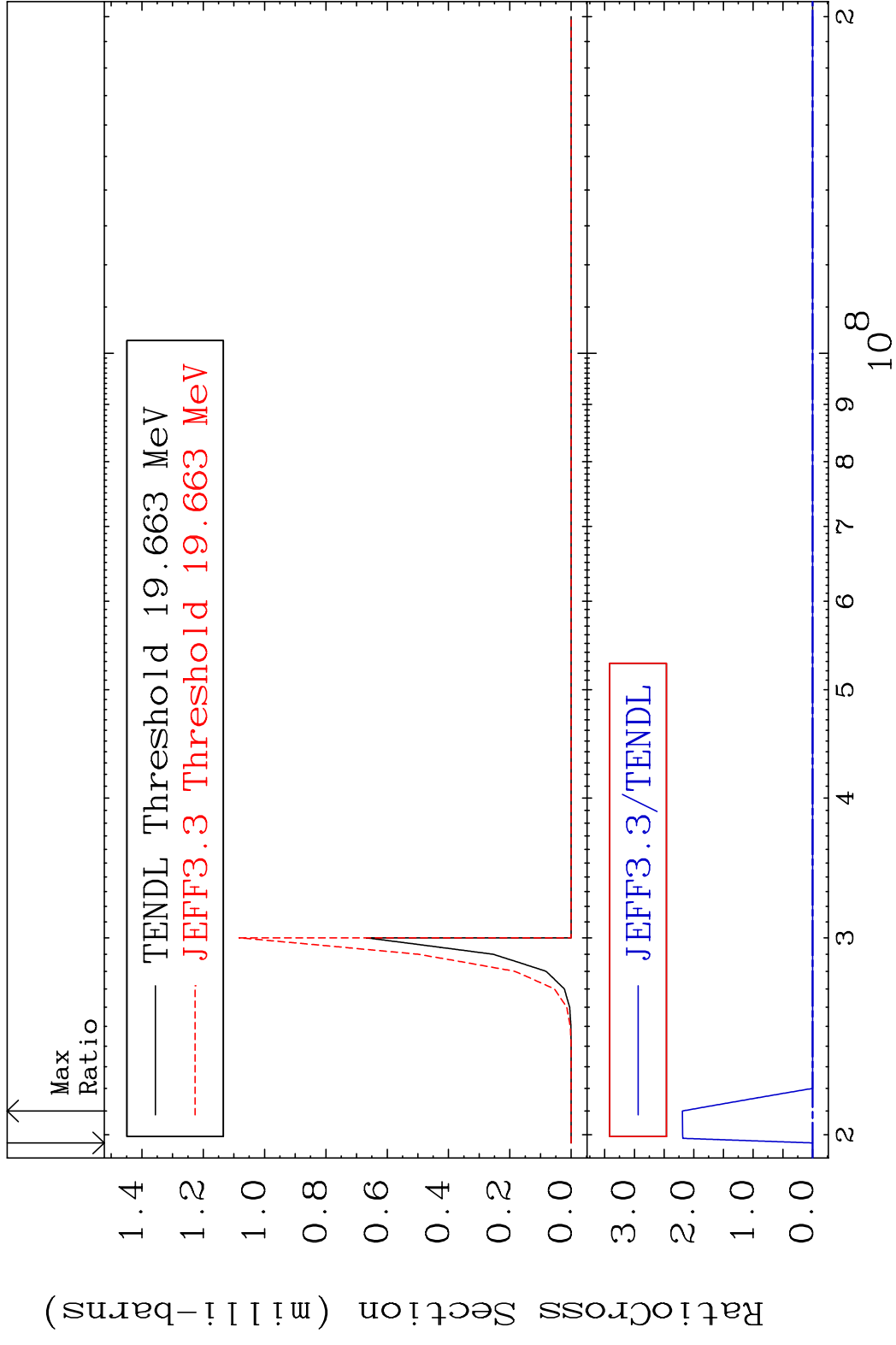


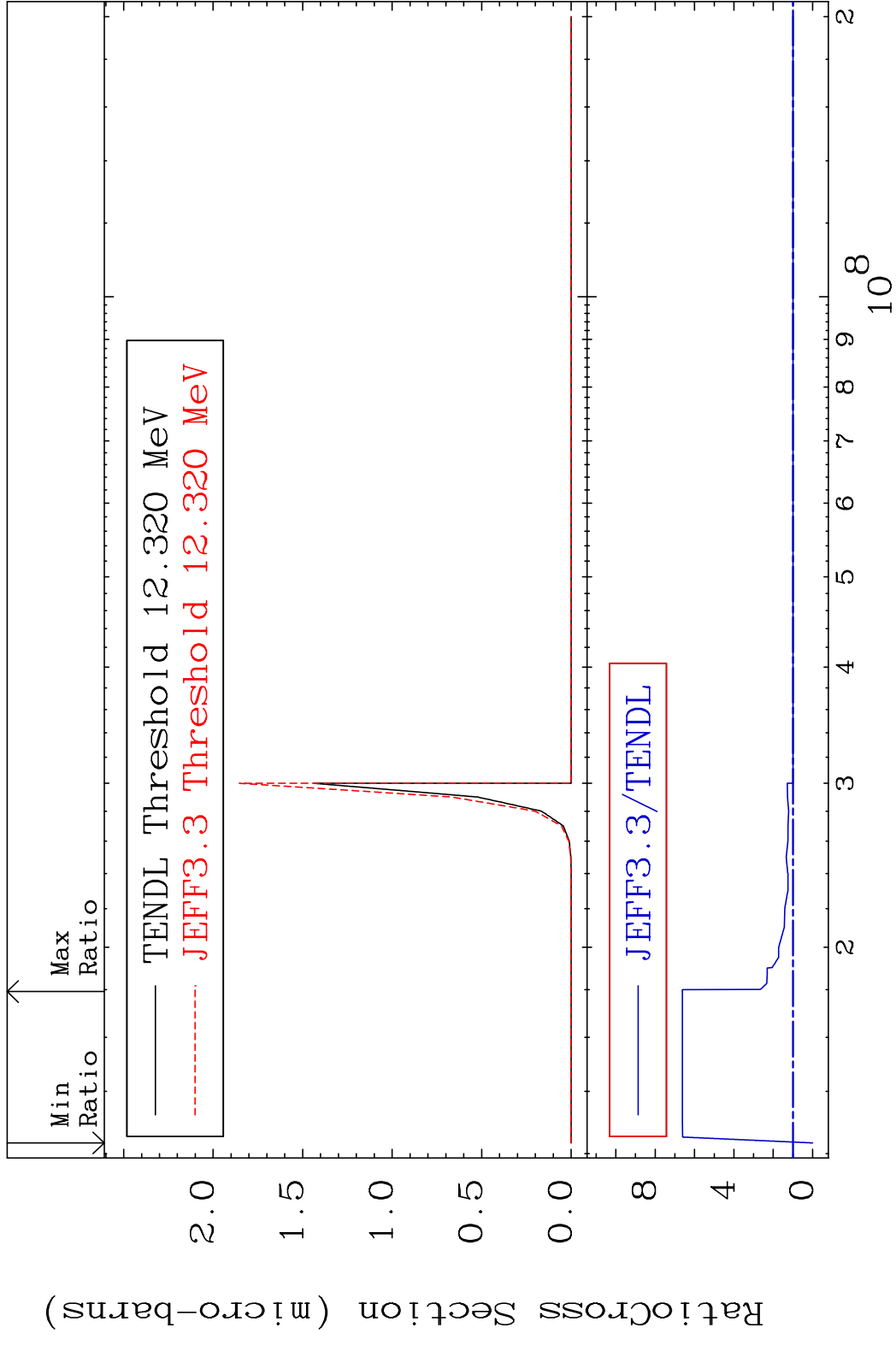
MAT 7119

(n,3n) p

71-Lu-173

Cross Section -100.0 To 9999. %

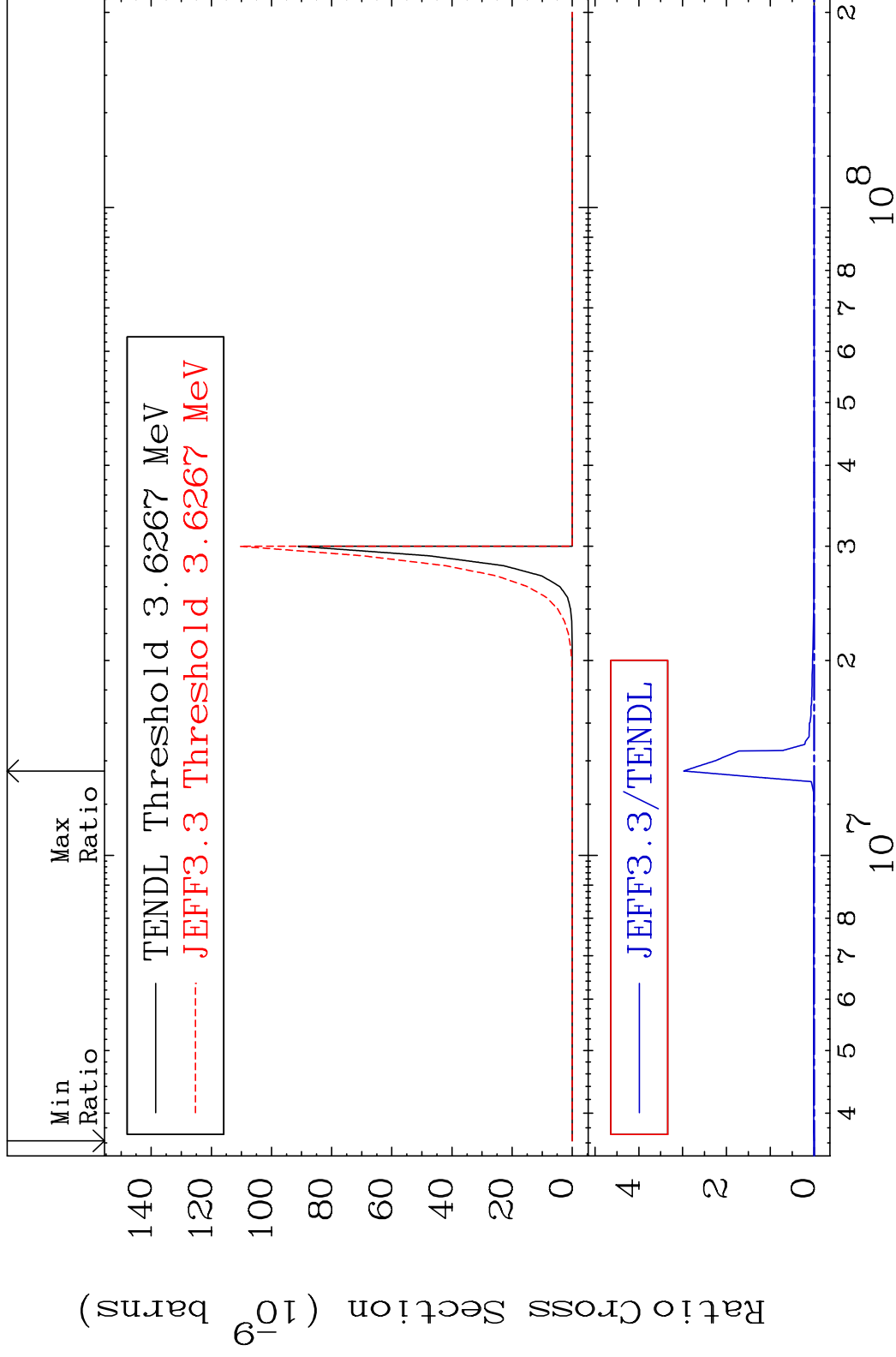




MAT 7119

(n,n') p α 71-Lu-173

Cross Section -100.0 To 9999. %

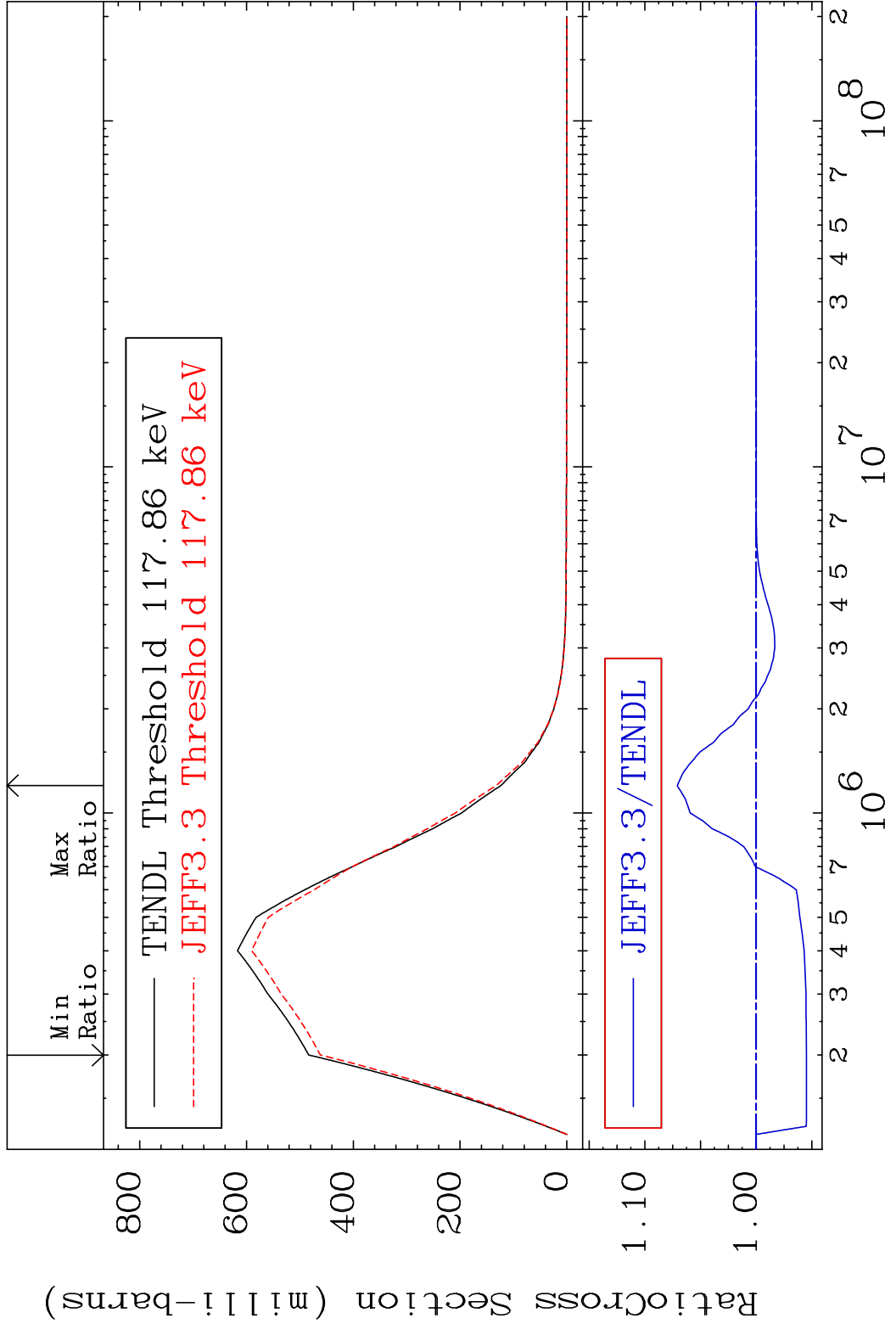


19

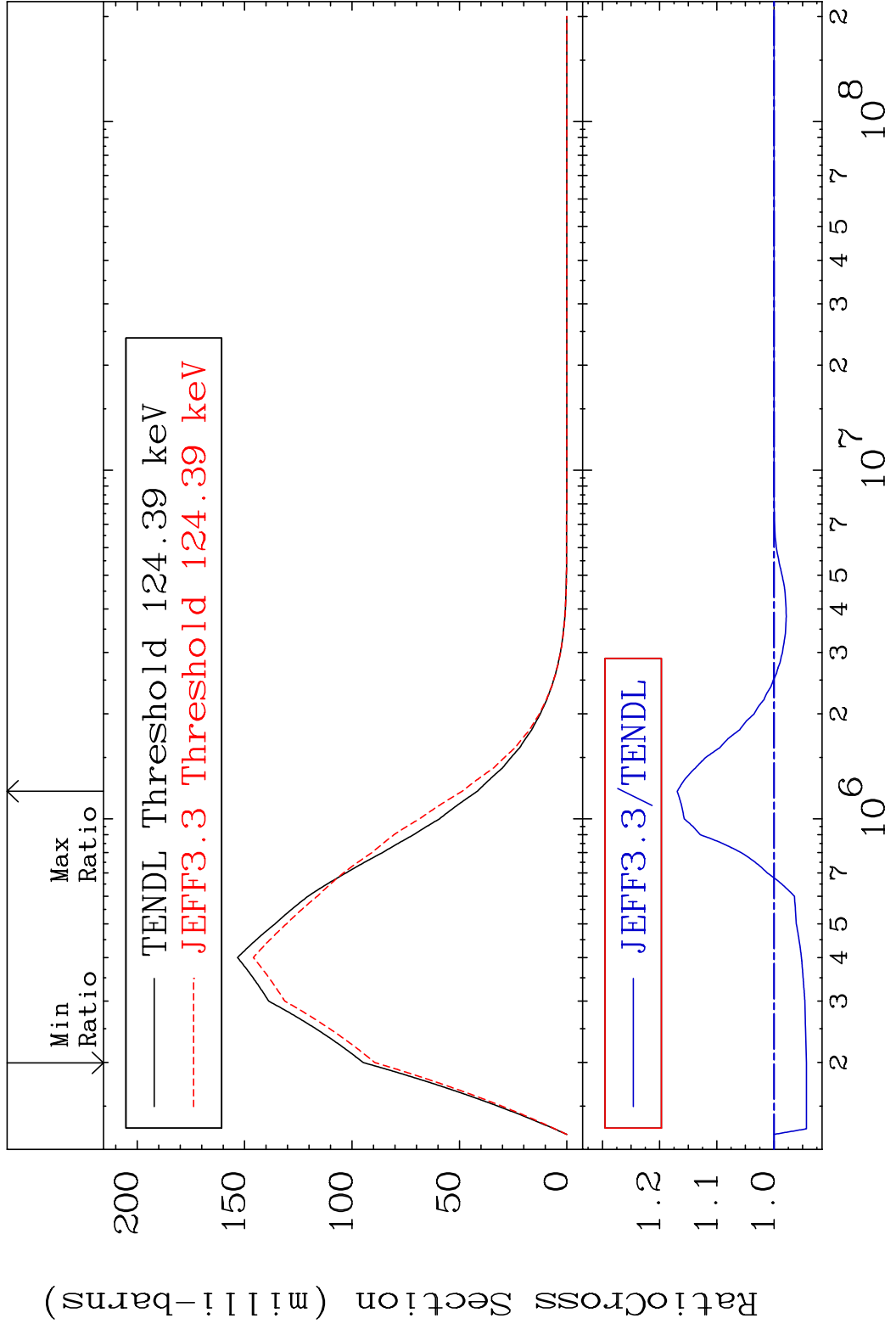
Incident Energy (eV)

71-Lu-173

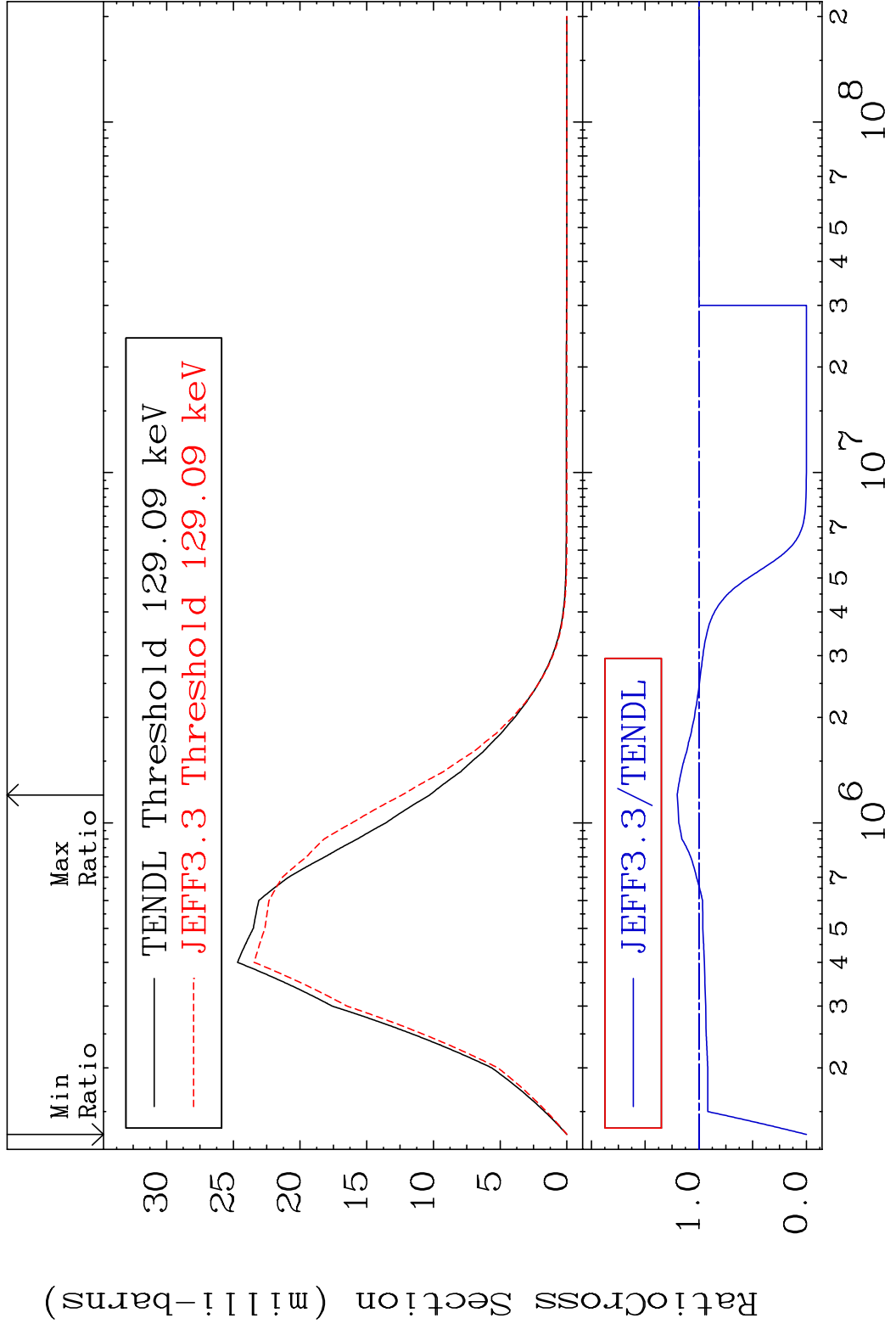
MAT 7119 MT= 51 (n,n') Level 71-Lu-173
 Cross Section -4.518 To 7.092 %



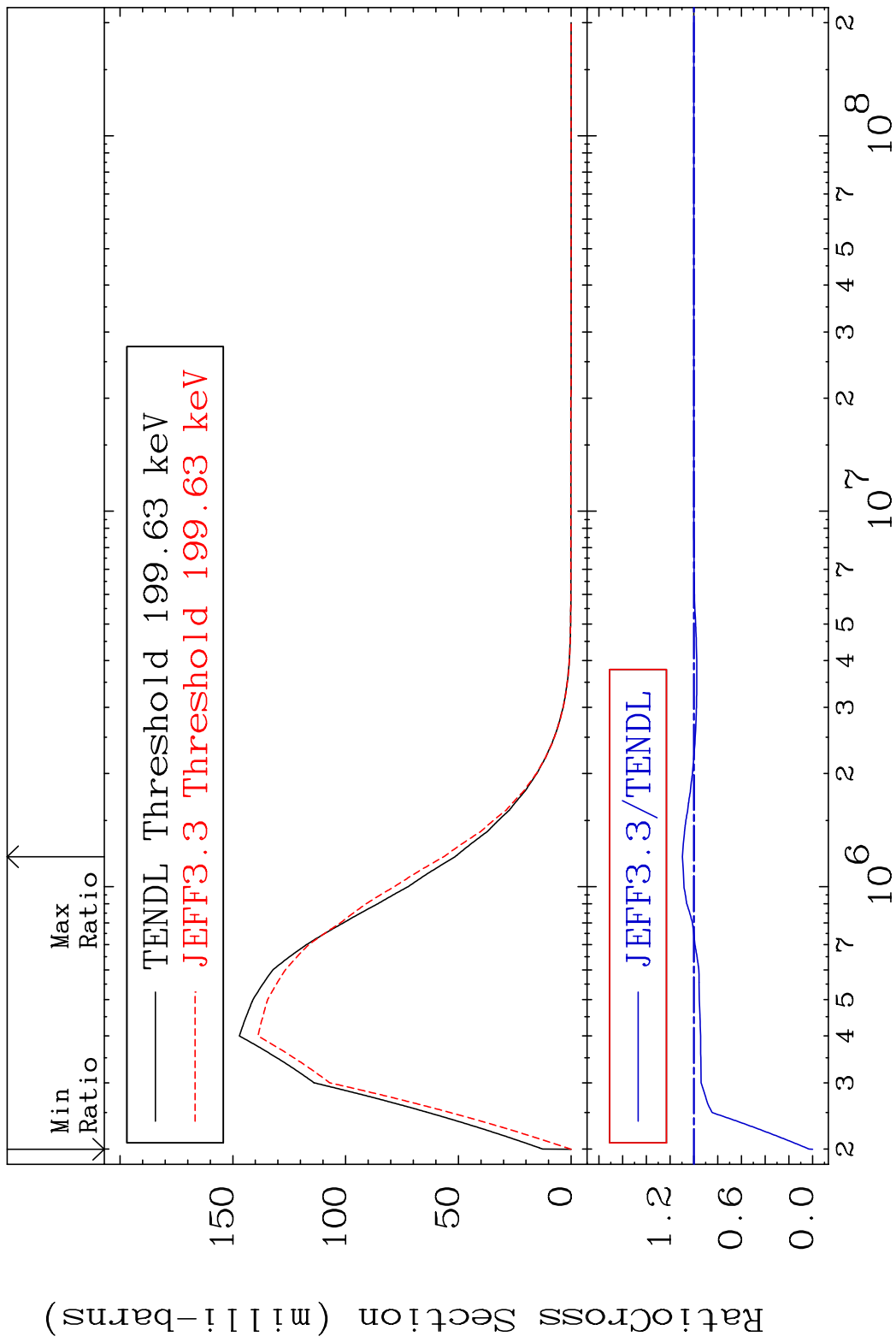
MAT 7119 MT= 52 (n, n') Level 71-Lu-173
 Cross Section -5.659 To 16.93 %



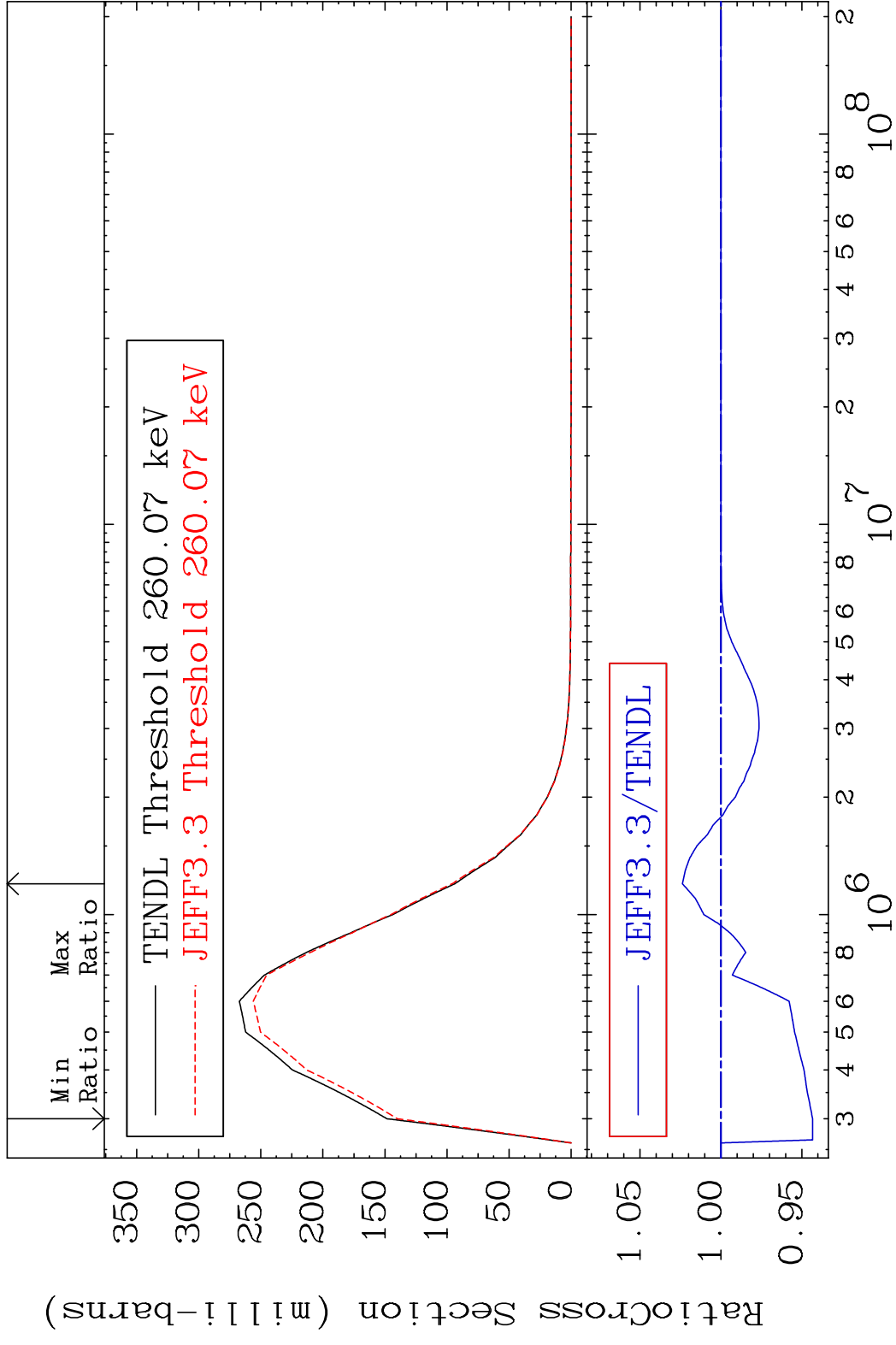
MAT 7119 MT= 53 (n, n') Level 71-Lu-173
 Cross Section -100.0 To 20.20 %



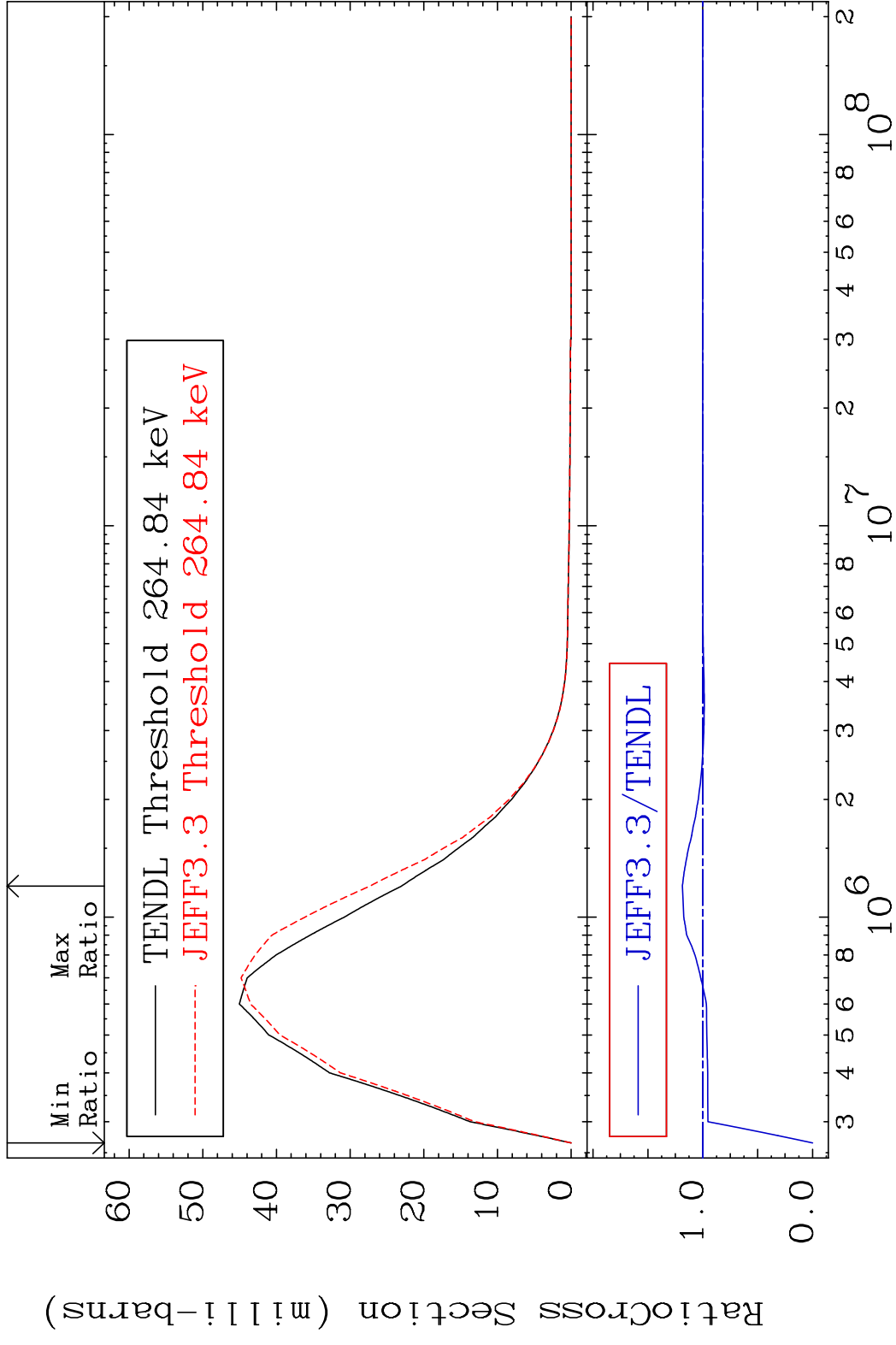
MAT 7119 MT= 54 (n,n') Level 71-Lu-173
 Cross Section -100.0 To 9.725 %



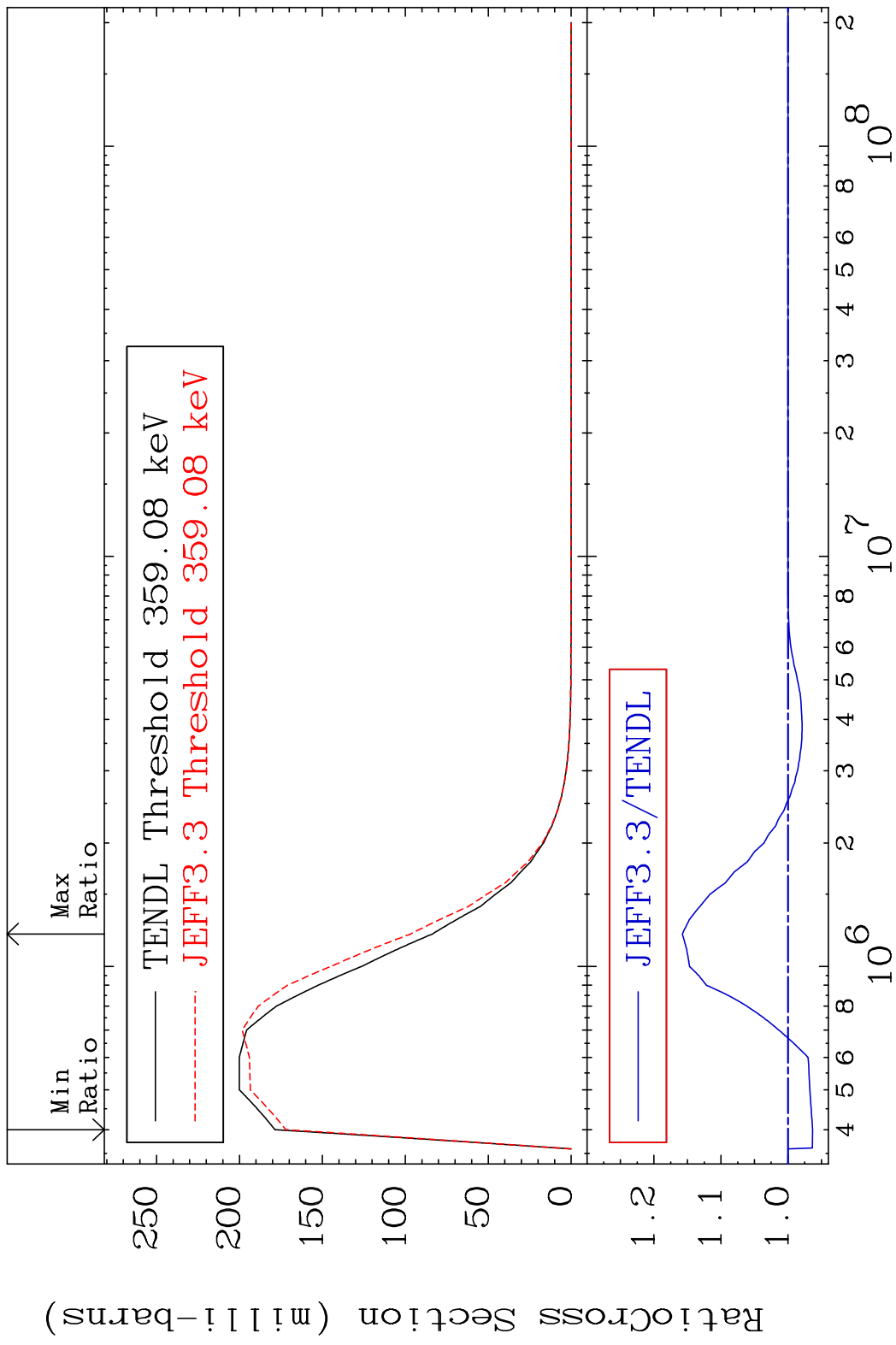
MAT 7119 MT= 55 (n,n') Level 71-Lu-173
 Cross Section -5.666 To 2.382 %



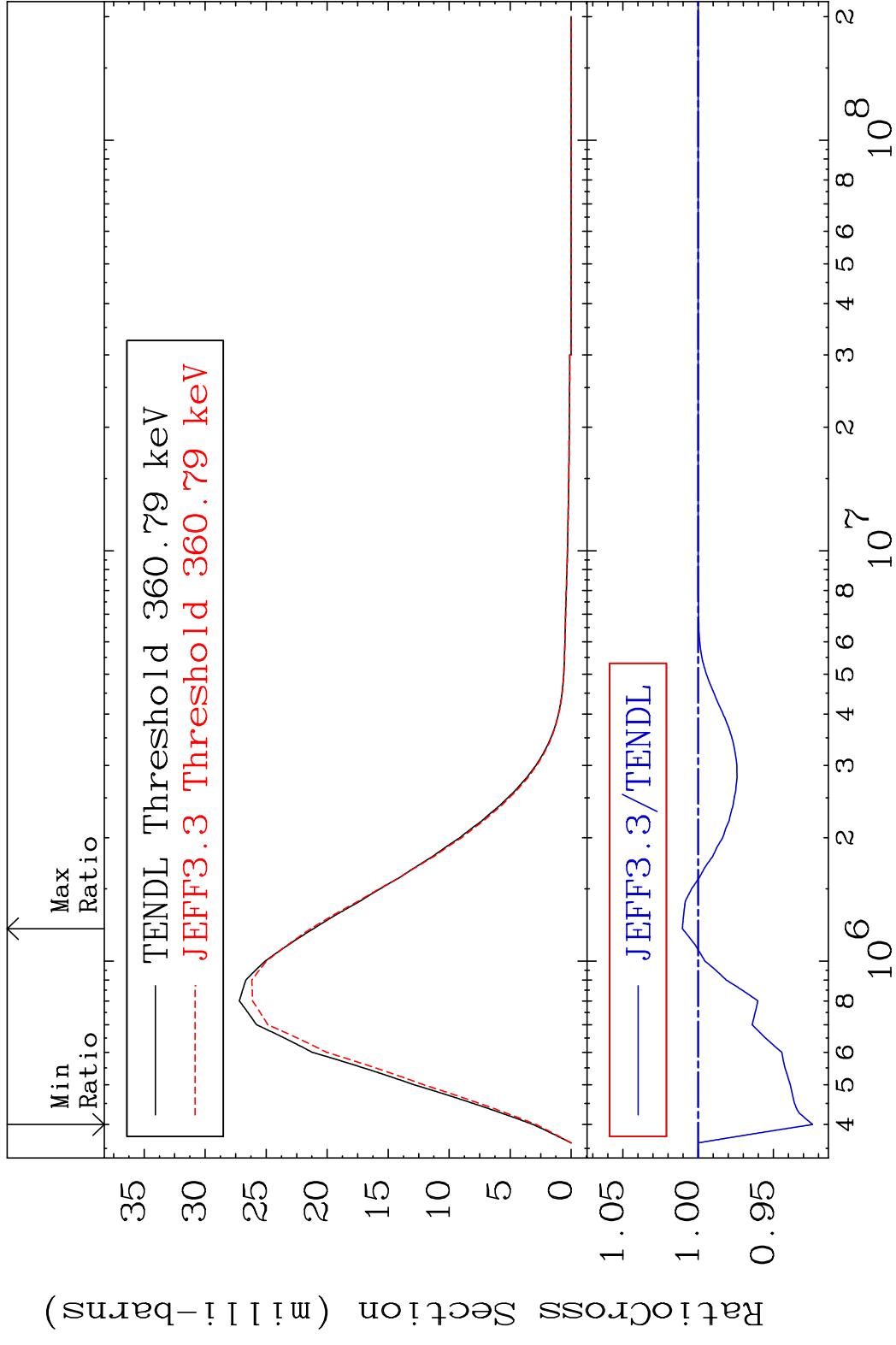
MAT 7119 MT= 56 (n,n') Level 71-Lu-173
 Cross Section -100.0 To 18.60 %



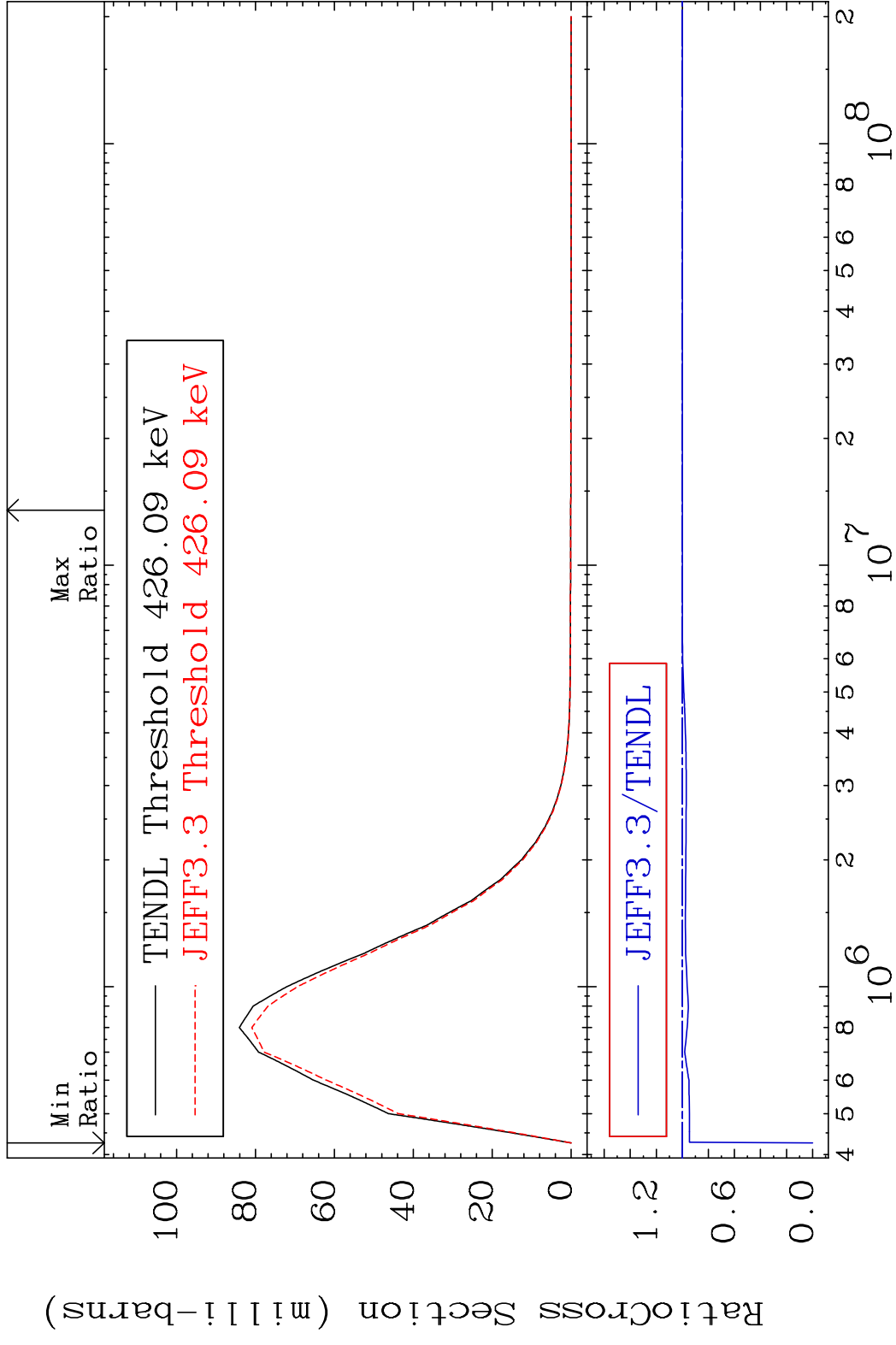
MAT 71119 MT= 57 (n,n') Level 71-Lu-173
 Cross Section -3.672 To 15.76 %



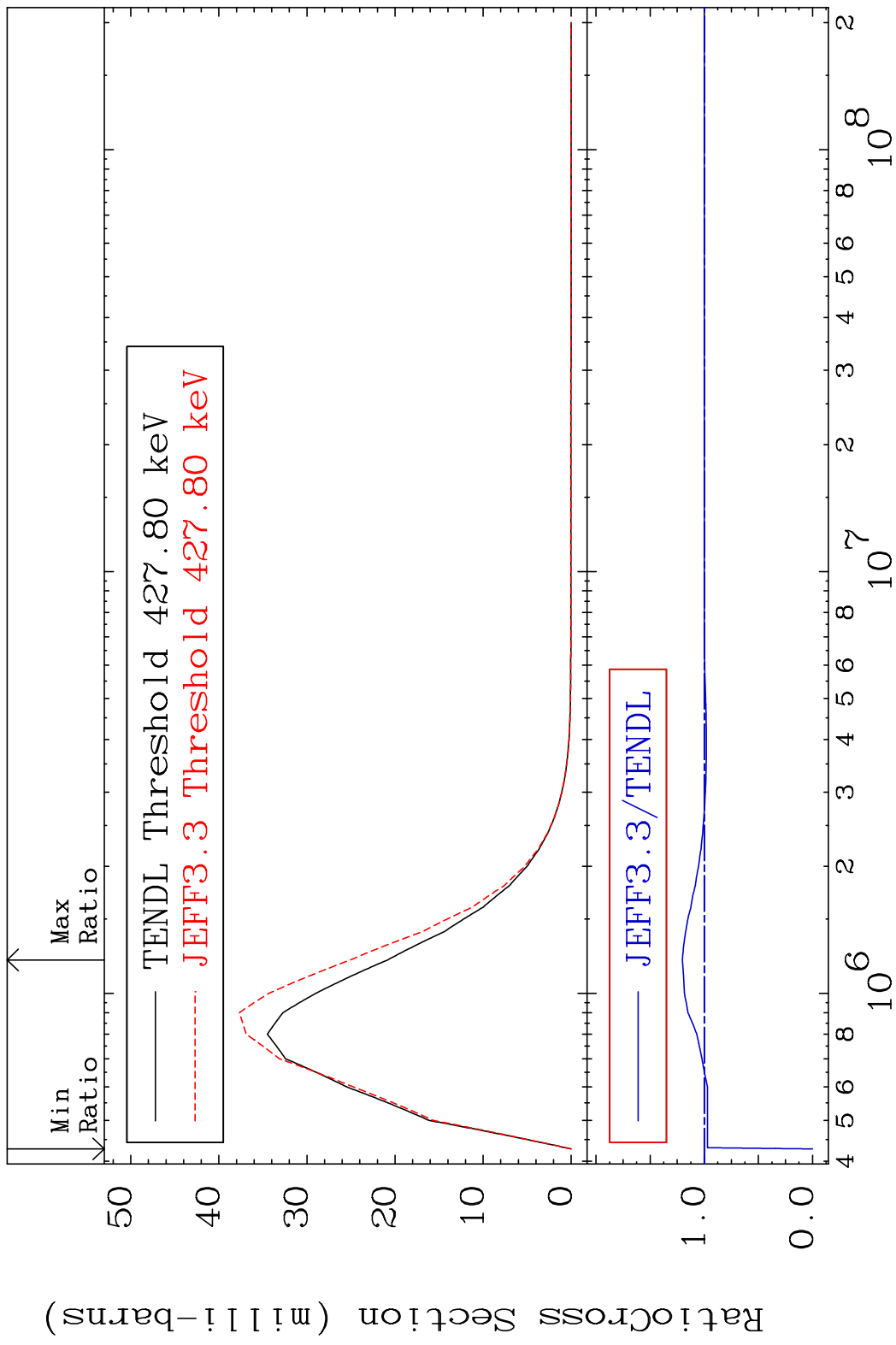
MAT 7119 MT= 58 (n,n') Level 71-Lu-173
 Cross Section -7.601 To 1.048 %



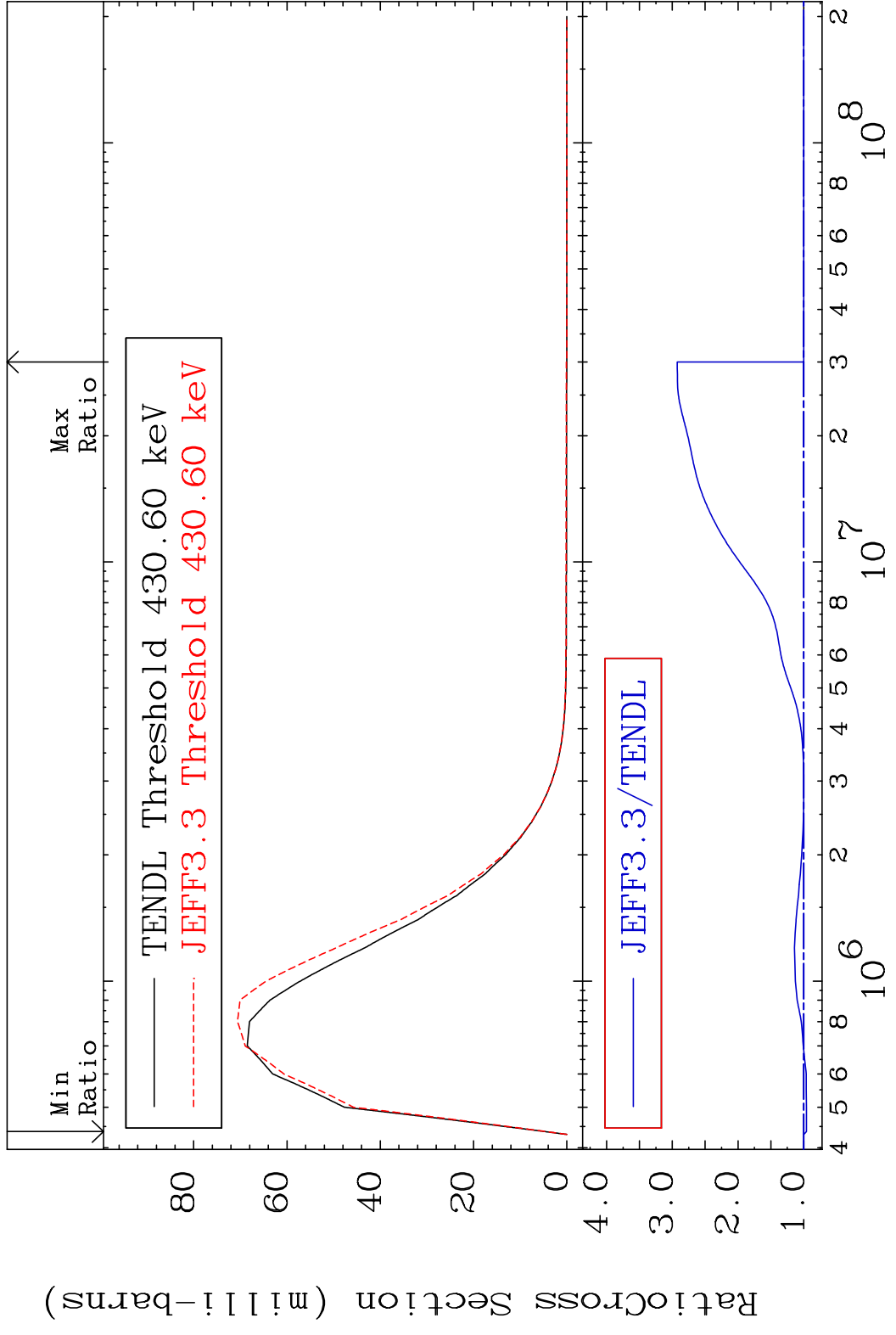
MAT 7119 MT= 59 (n, n') Level 71-Lu-173
 Cross Section -100.0 To 0.000 %



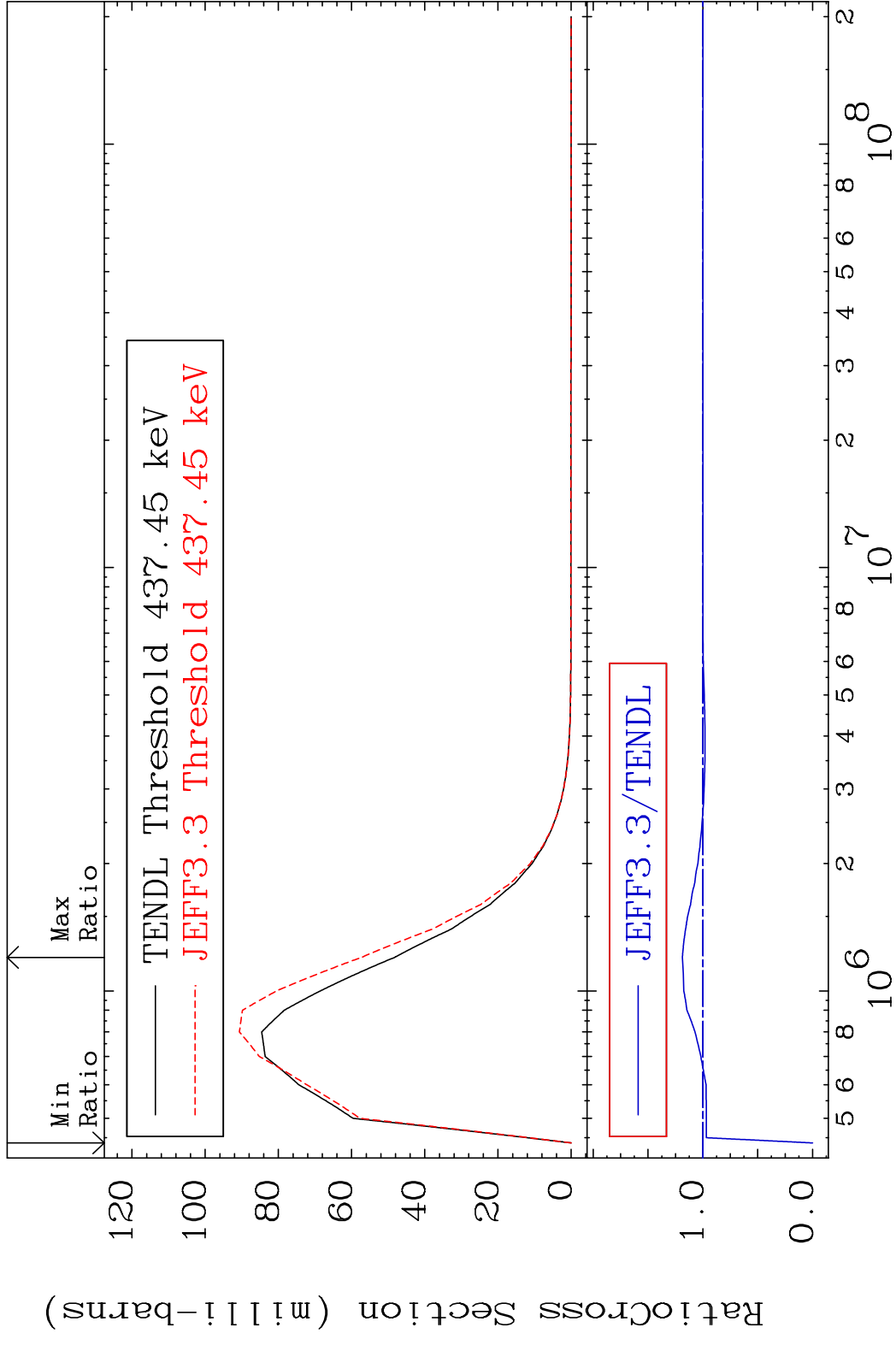
MAT 7119 MT= 60 (n, n') Level 71-Lu-173
 Cross Section -100.0 To 20.27 %



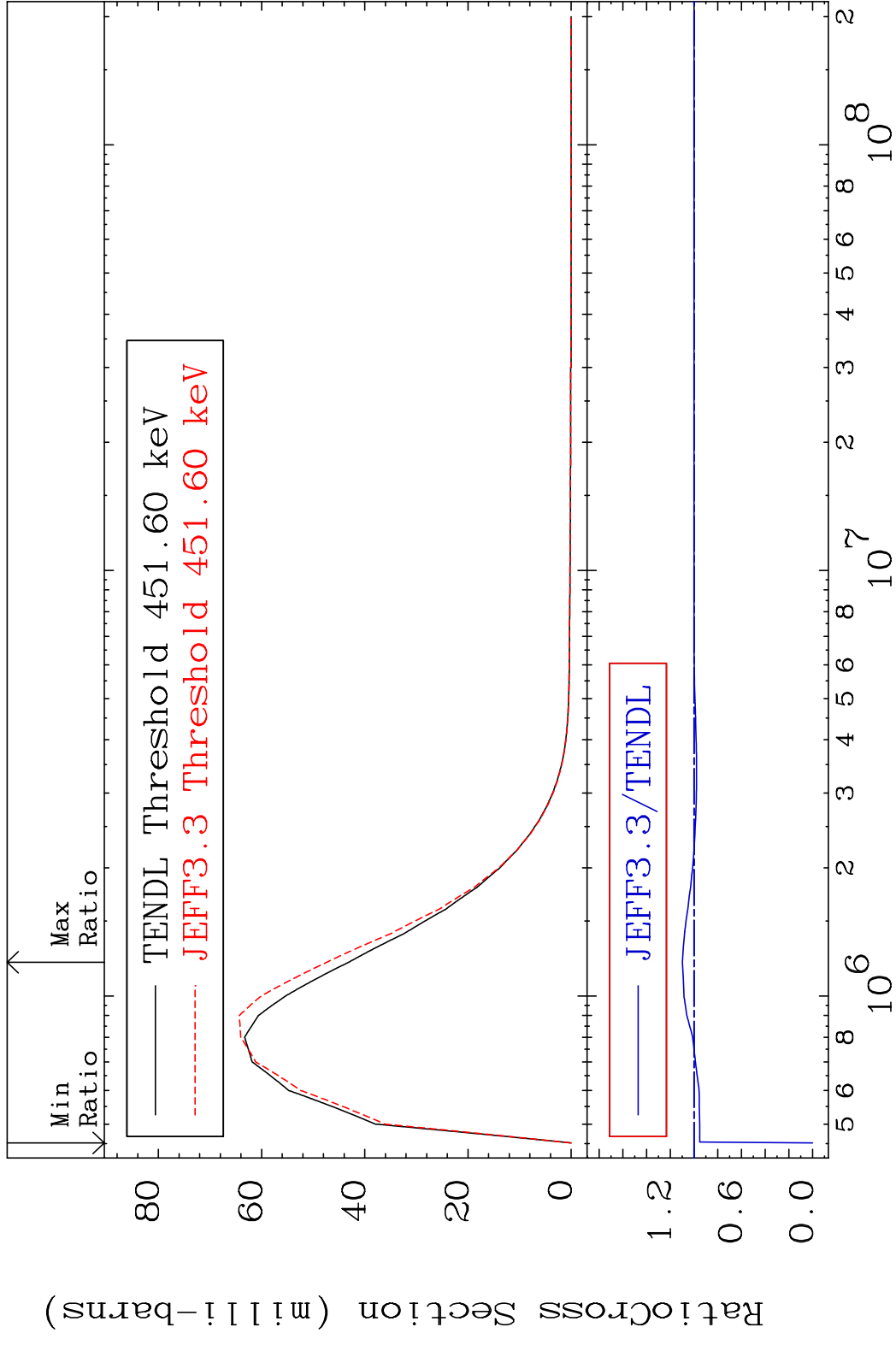
MAT 7119 MT= 61 (n, n') Level 71-Lu-173
 Cross Section -4.079 To 192.6 %



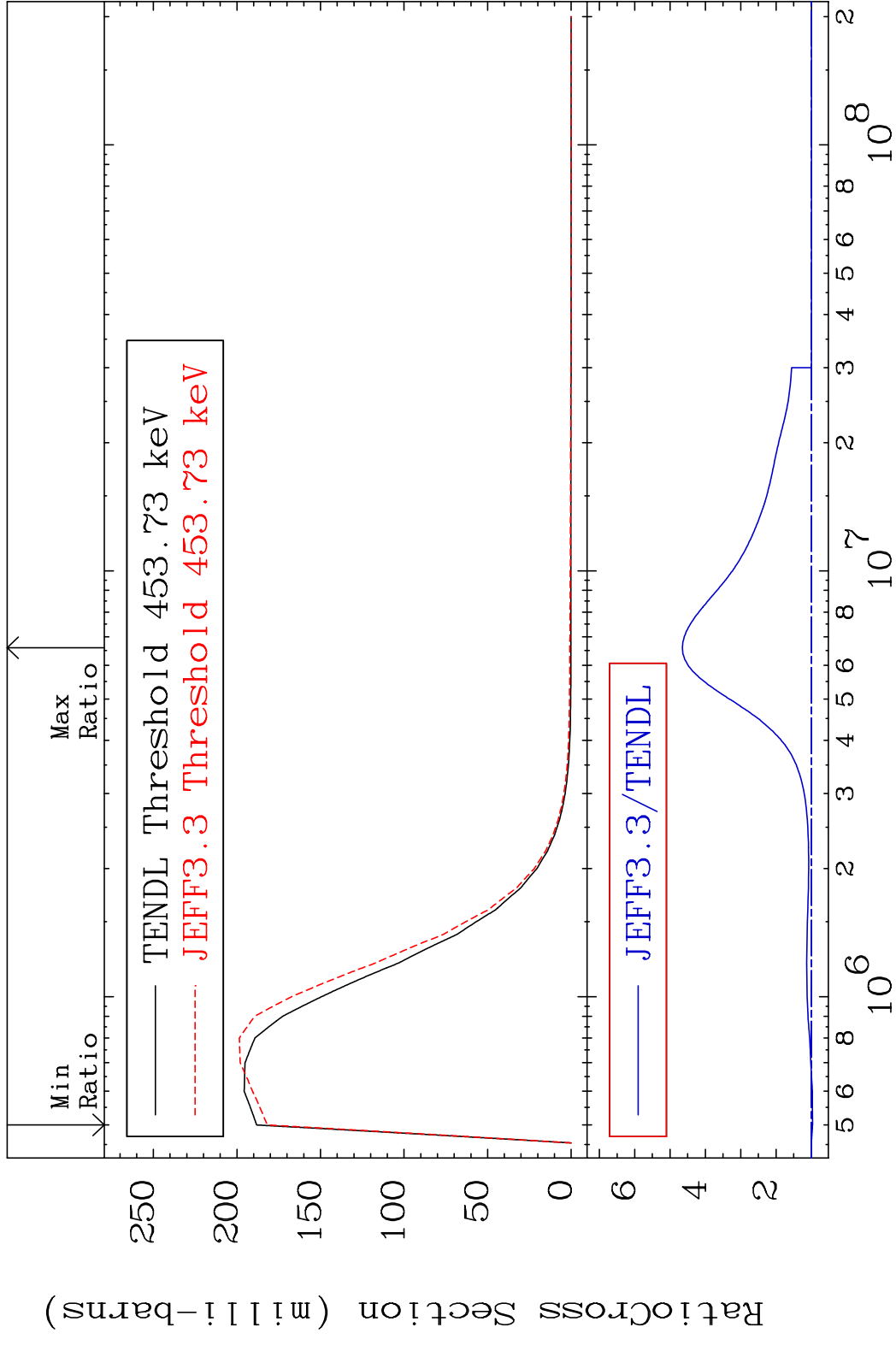
MAT 7119 MT= 62 (n, n') Level 71-Lu-173
 Cross Section -100.0 To 18.73 %



MAT 7119 MT= 63 (n, n') Level 71-Lu-173
 Cross Section -100.0 To 9.852 %



MAT 7119 MT= 64 (n, n') Level 71-Lu-173
 Cross Section -3.377 To 365.2 %

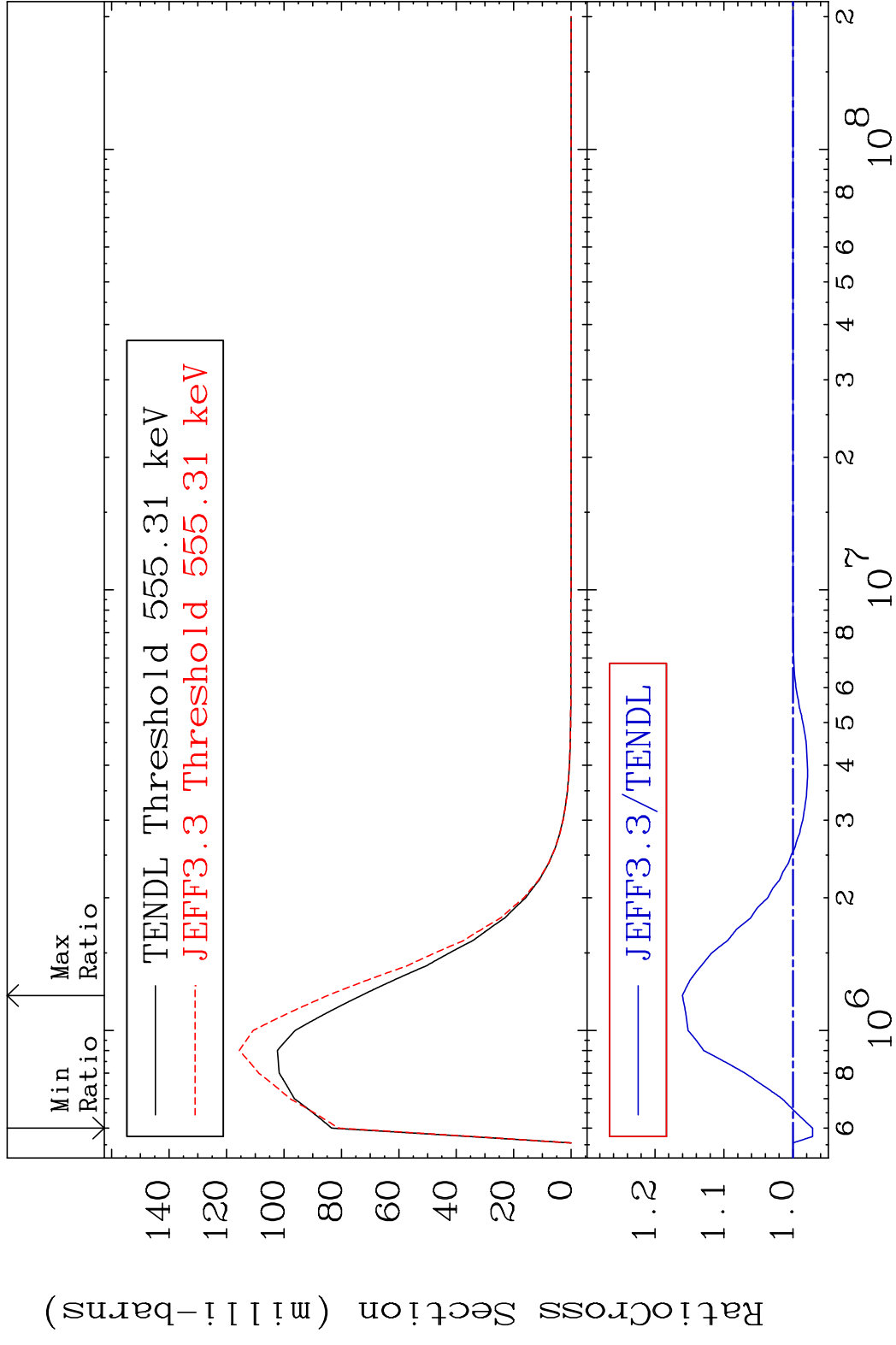


MAT 7119

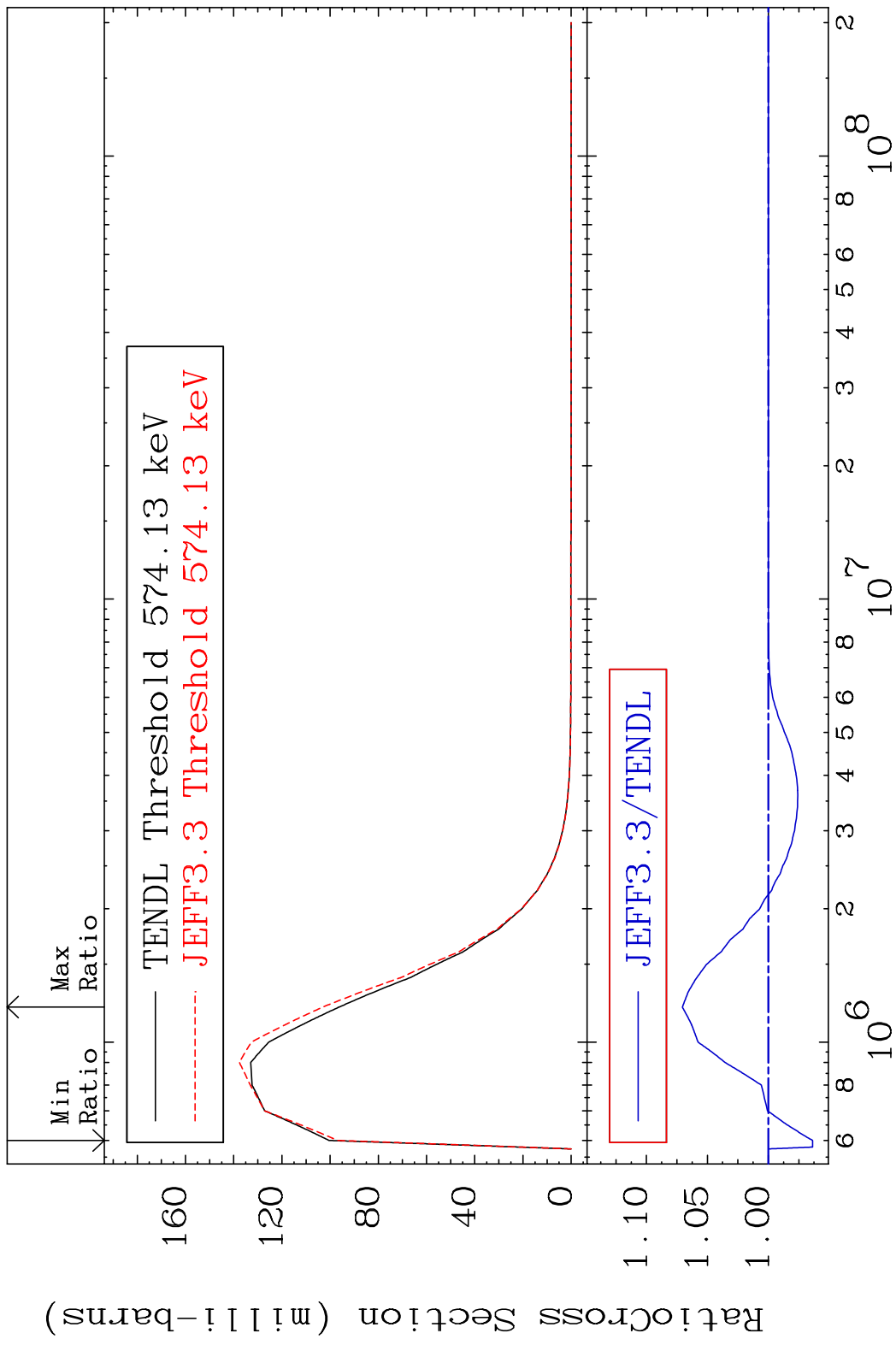
MT= 65 (n, n') Level

71-Lu-173

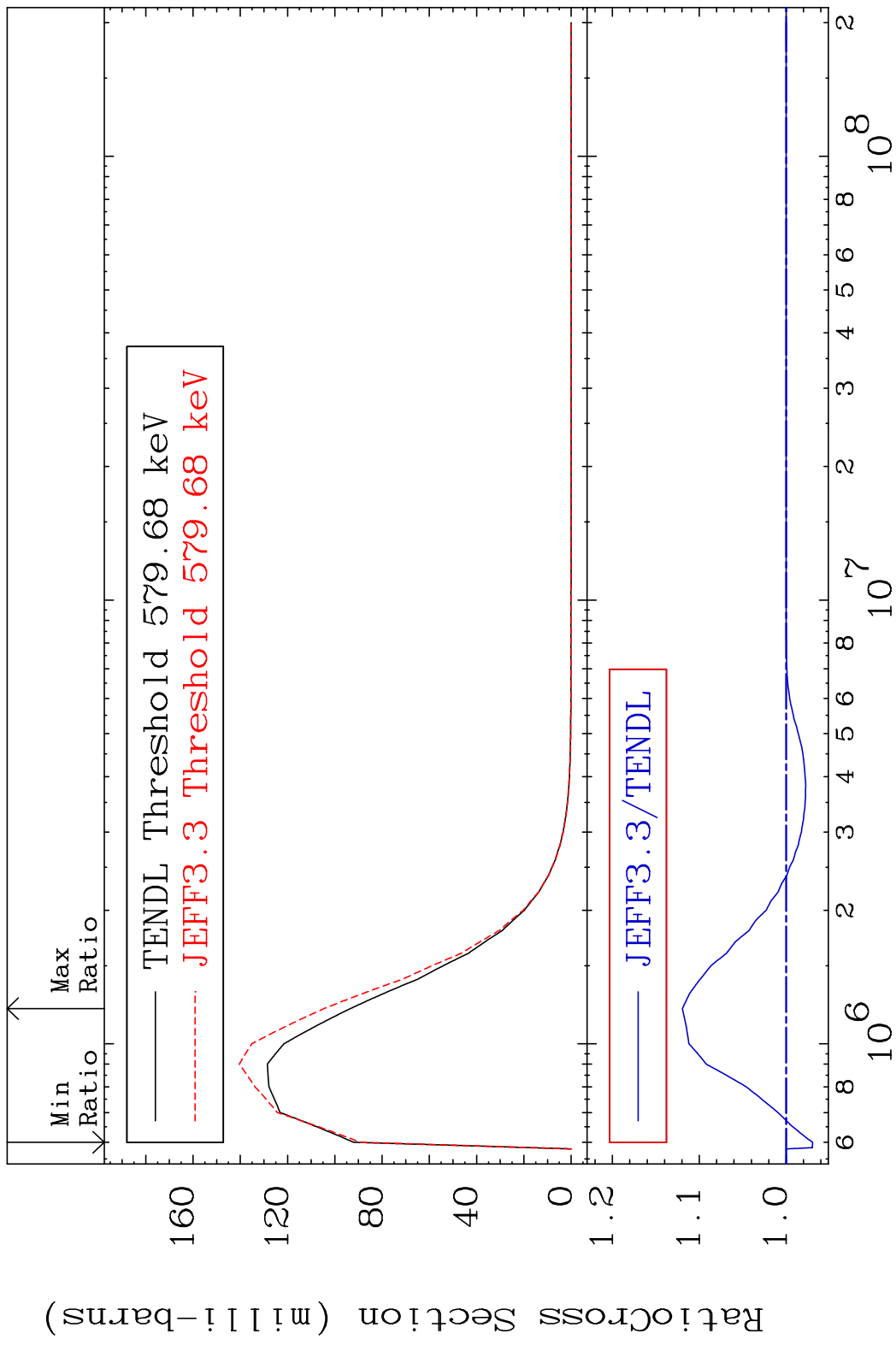
Cross Section -2.836 To 16.03 %



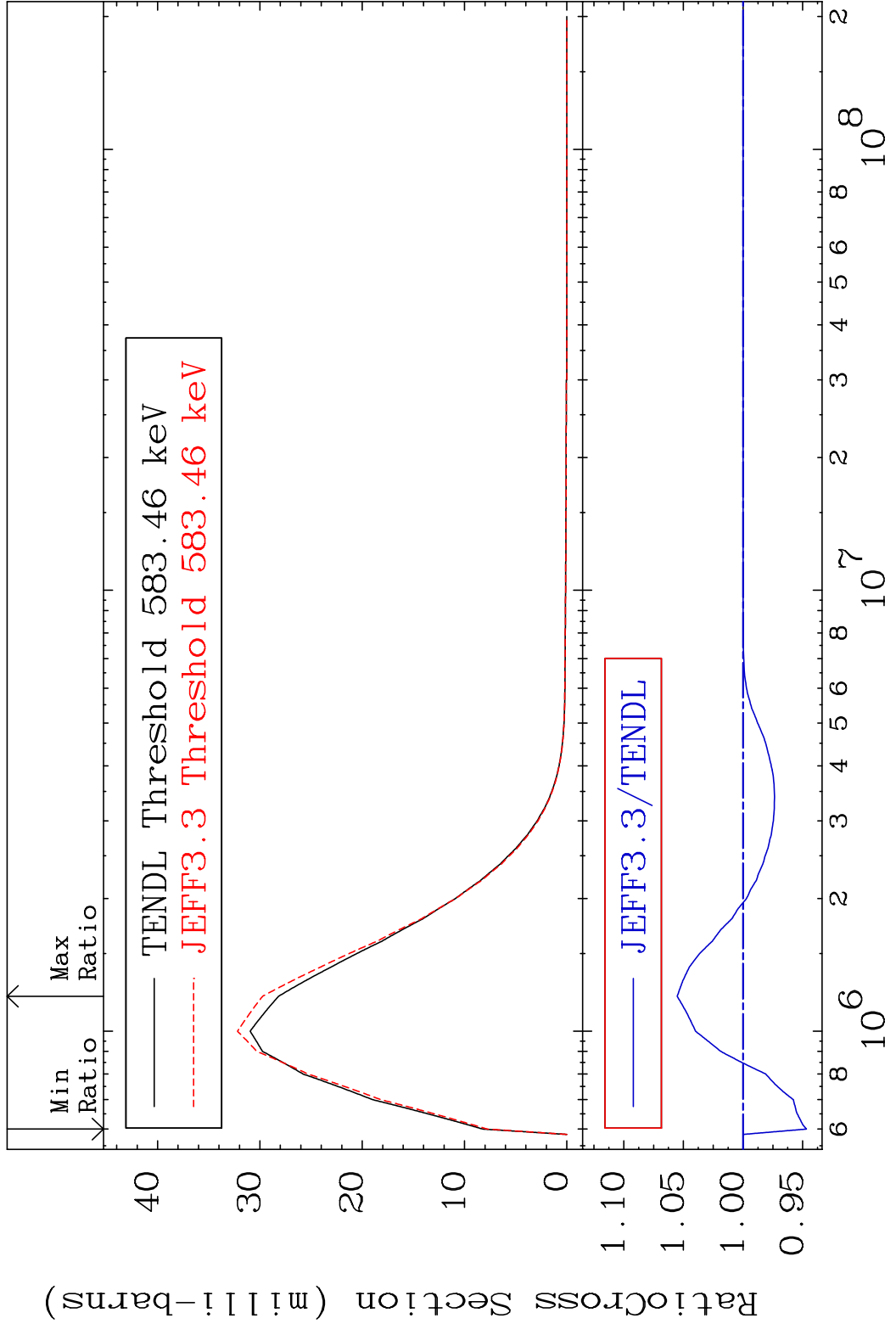
MAT 7119 MT= 66 (n, n') Level 71-Lu-173
 Cross Section -3.626 To 7.054 %

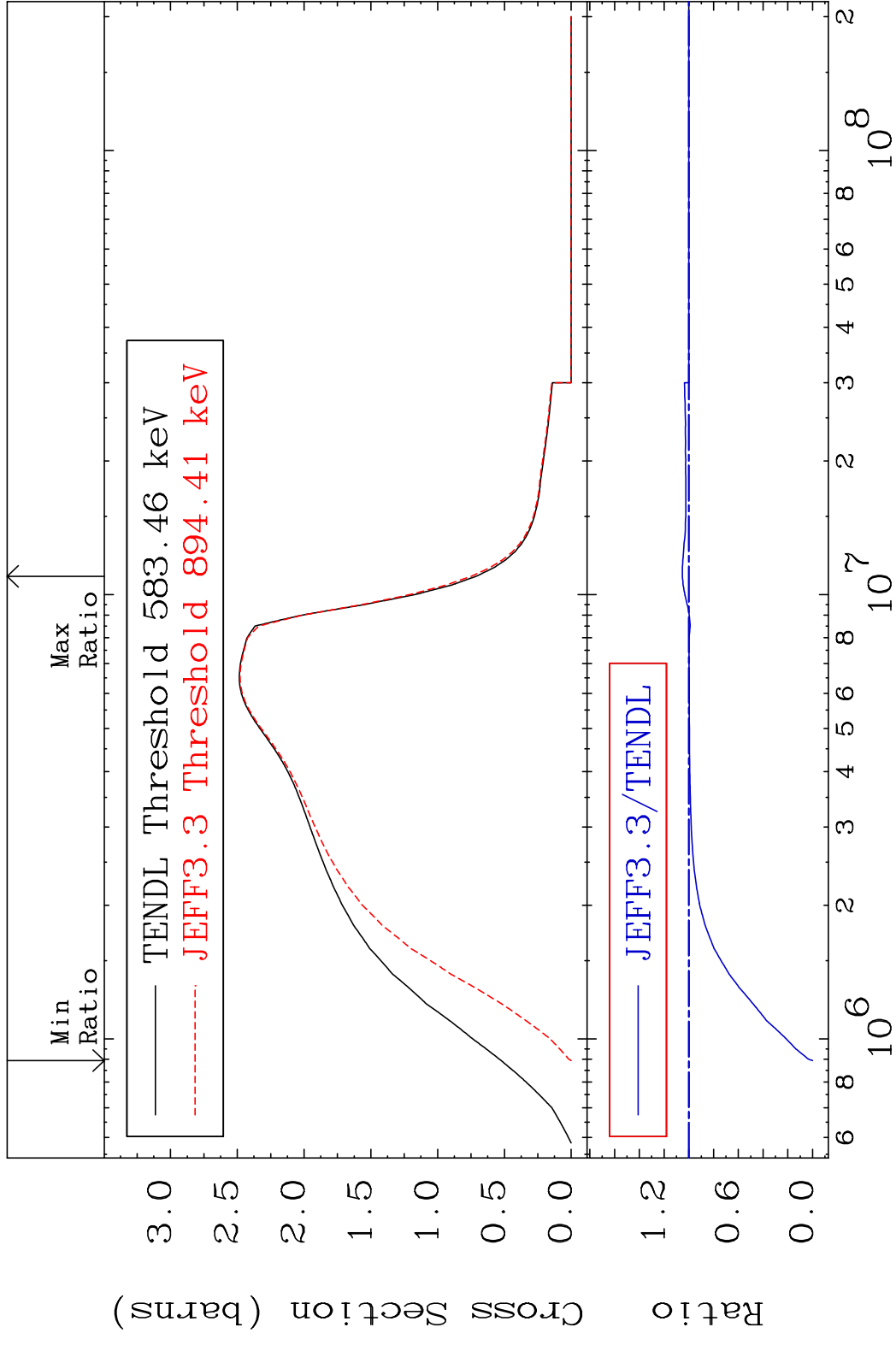


MAT 7119 MT= 67 (n, n') Level 71-Lu-173
 Cross Section -3.042 To 11.95 %



MAT 7119 MT= 68 (n,n') Level 71-Lu-173
 Cross Section -5.313 To 5.520 %



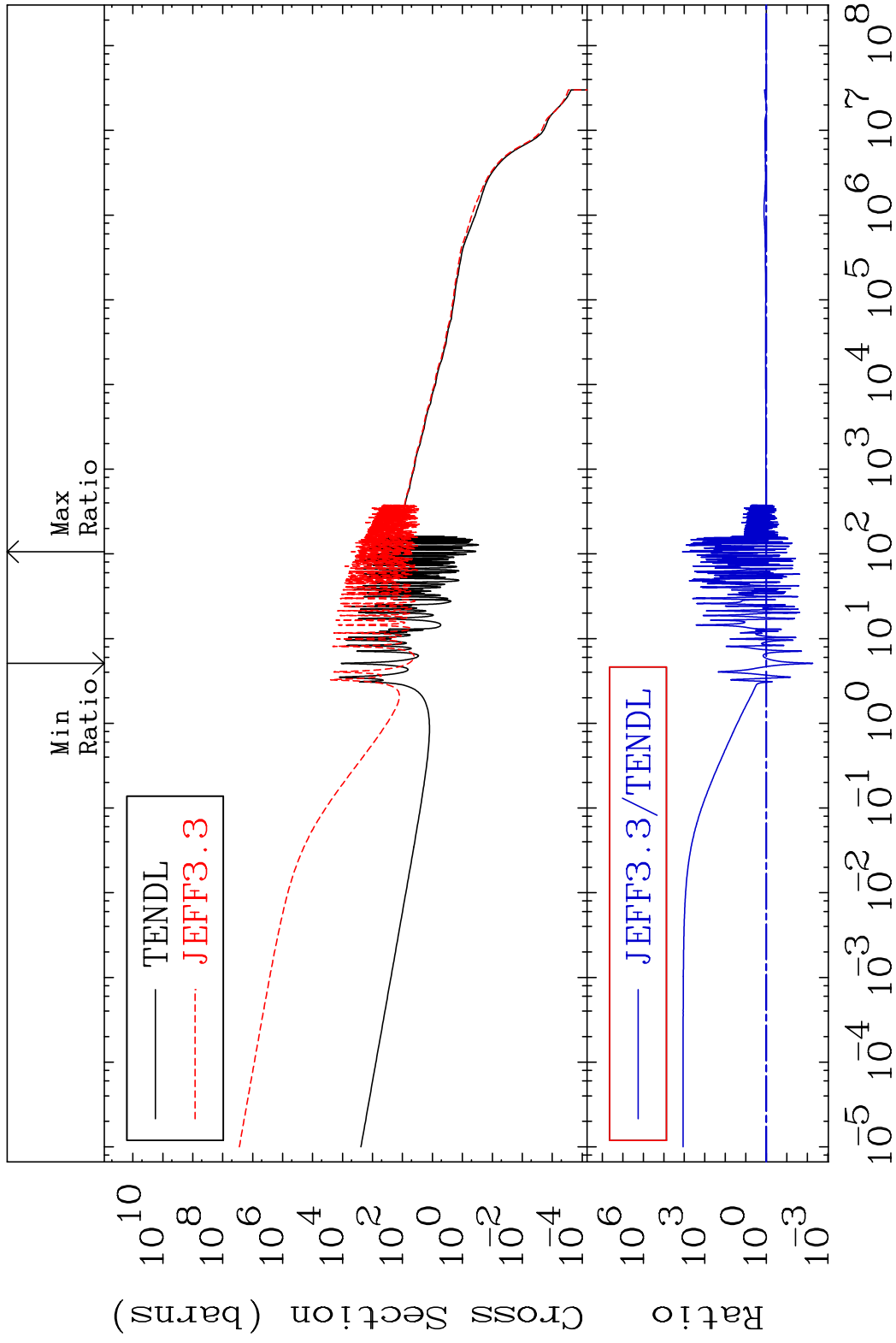


MAT 7119

(n, γ)

71-Lu-173

Cross Section -99.44 To 9999. %



39

Incident Energy (eV)

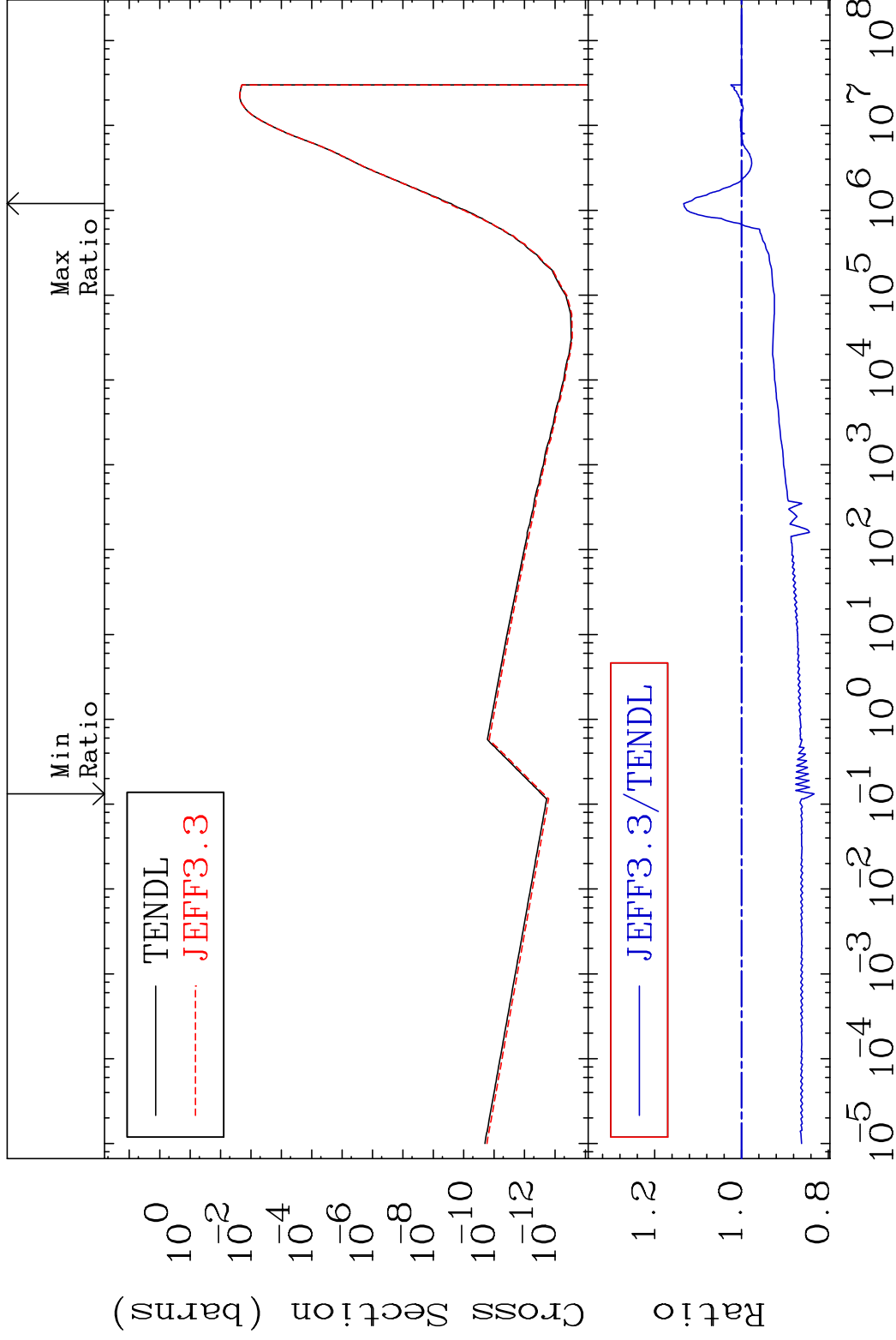
71-Lu-173

MAT 7119

(n, p)

71-Lu-173

Cross Section -16.72 To 13.33 %



40

Incident Energy (eV)

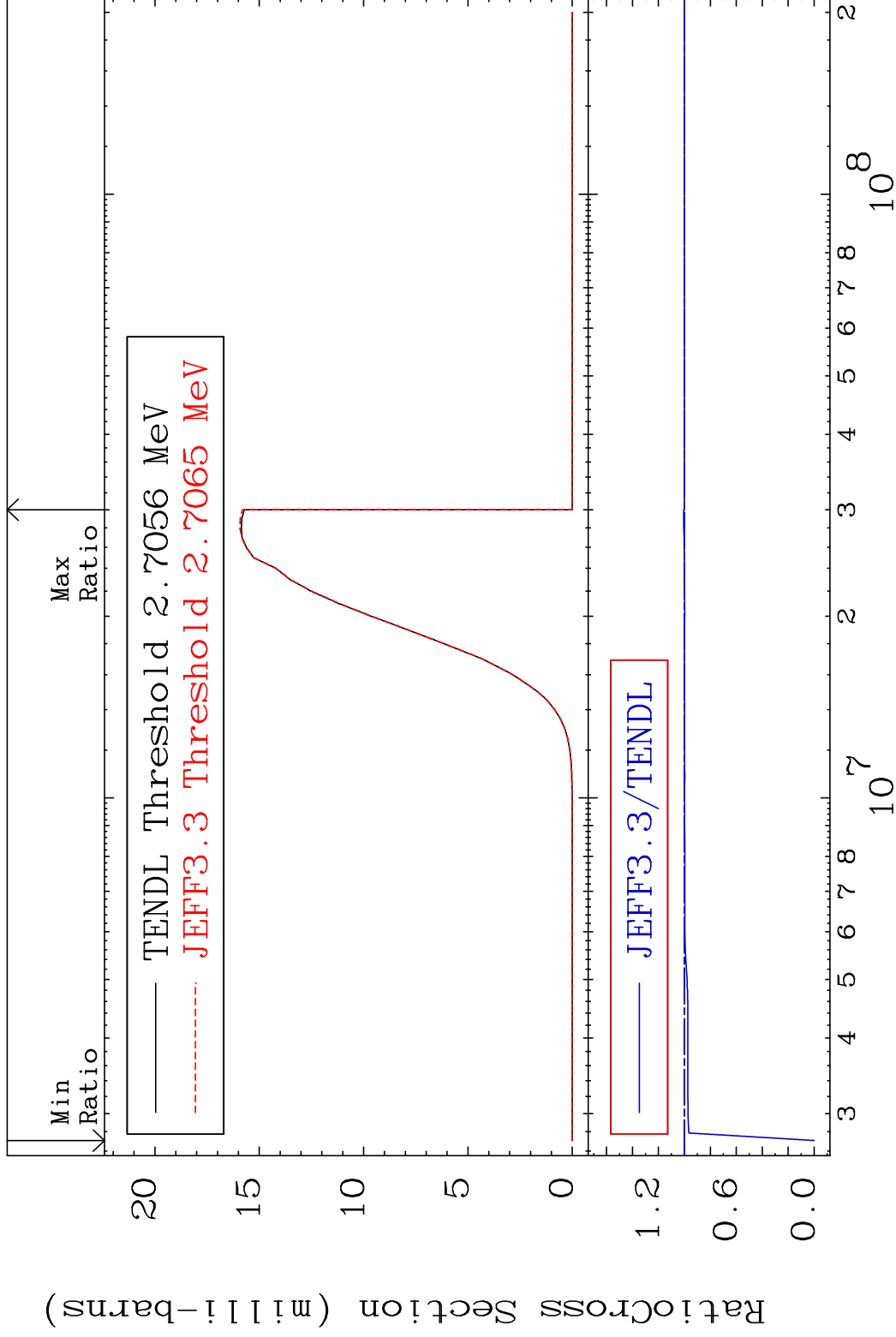
71-Lu-173

MAT 7119

(n, d)

71-Lu-173

Cross Section -100.0 To 0.557 %



41

Incident Energy (eV)

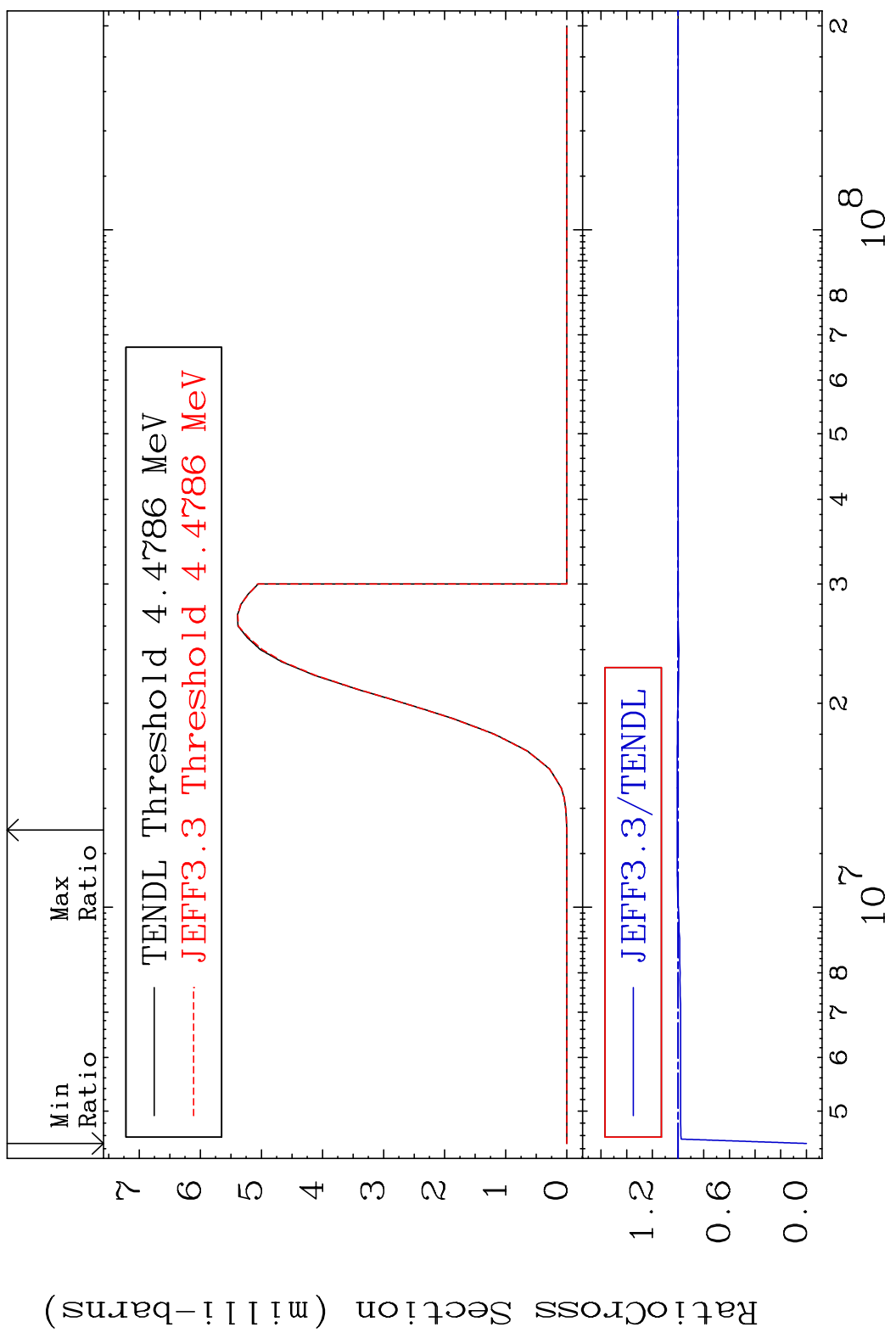
71-Lu-173

MAT 7119

(n, t)

71-Lu-173

Cross Section -100.0 To 0.683 %

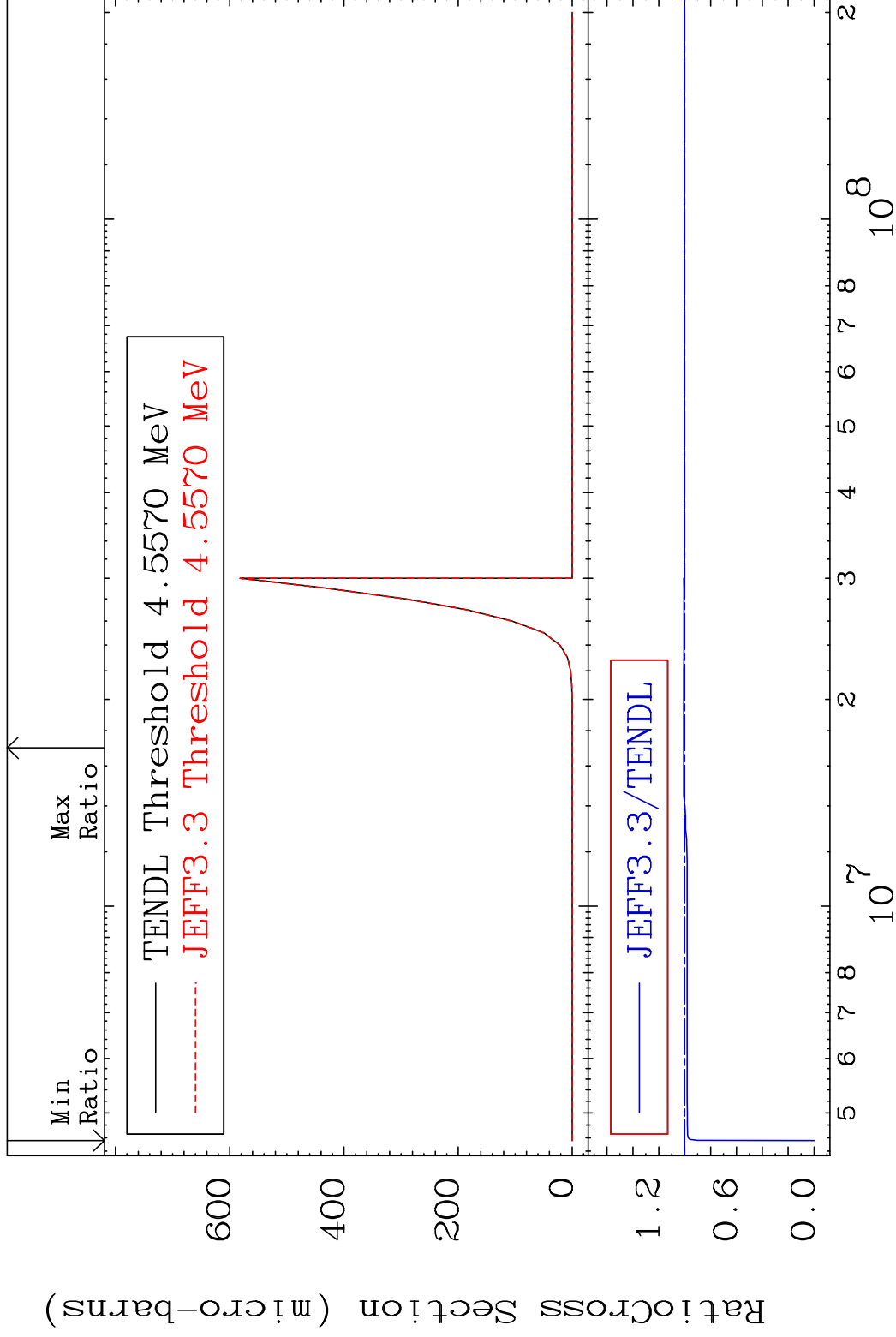


MAT 7119

(n, He-3)

71-Lu-173

Cross Section -100.0 To 0.786 %



43

Incident Energy (eV)

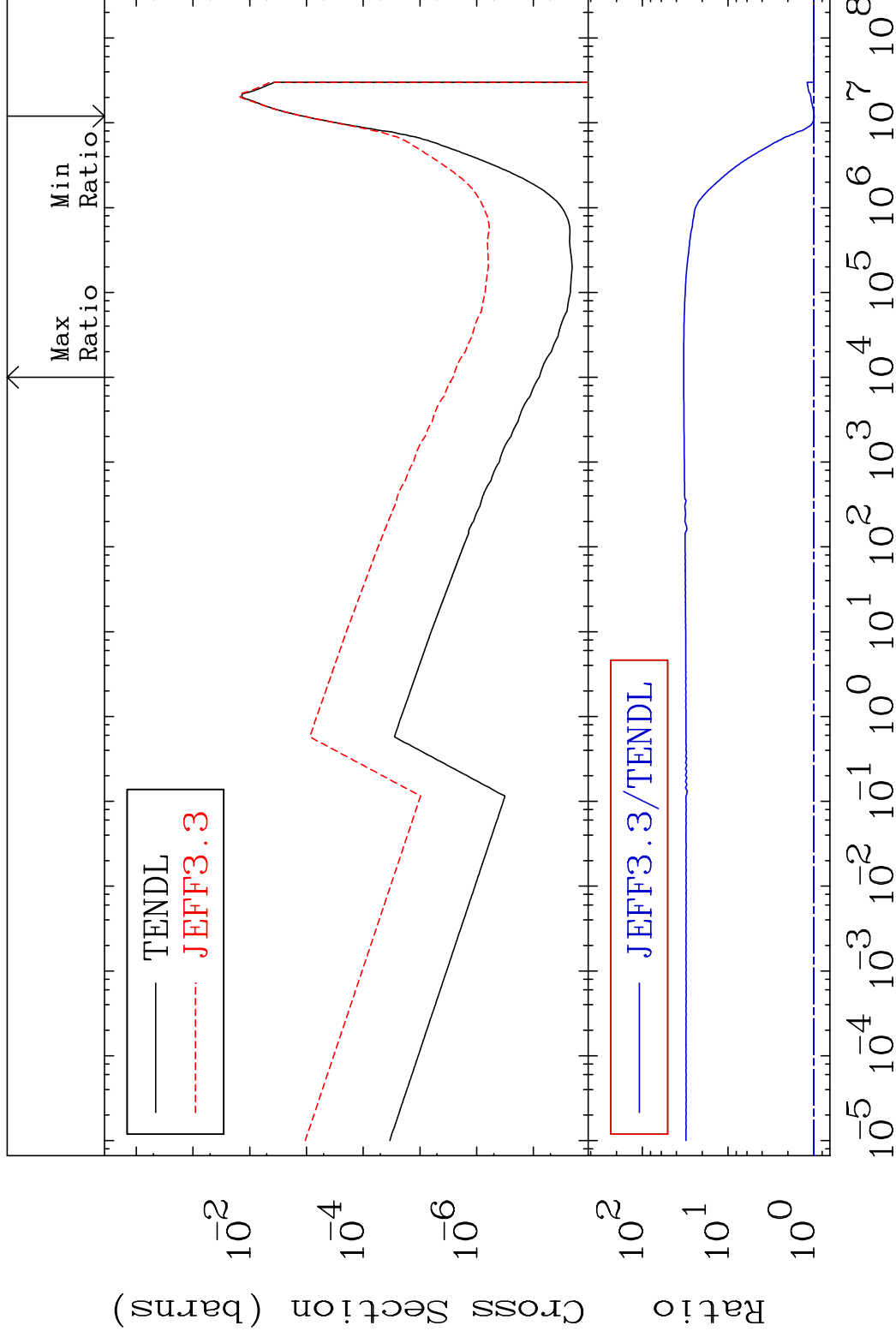
71-Lu-173

MAT 7119

71-Lu-173

(n, α)

Cross Section -1.000 To 3190. %



44

Incident Energy (eV)

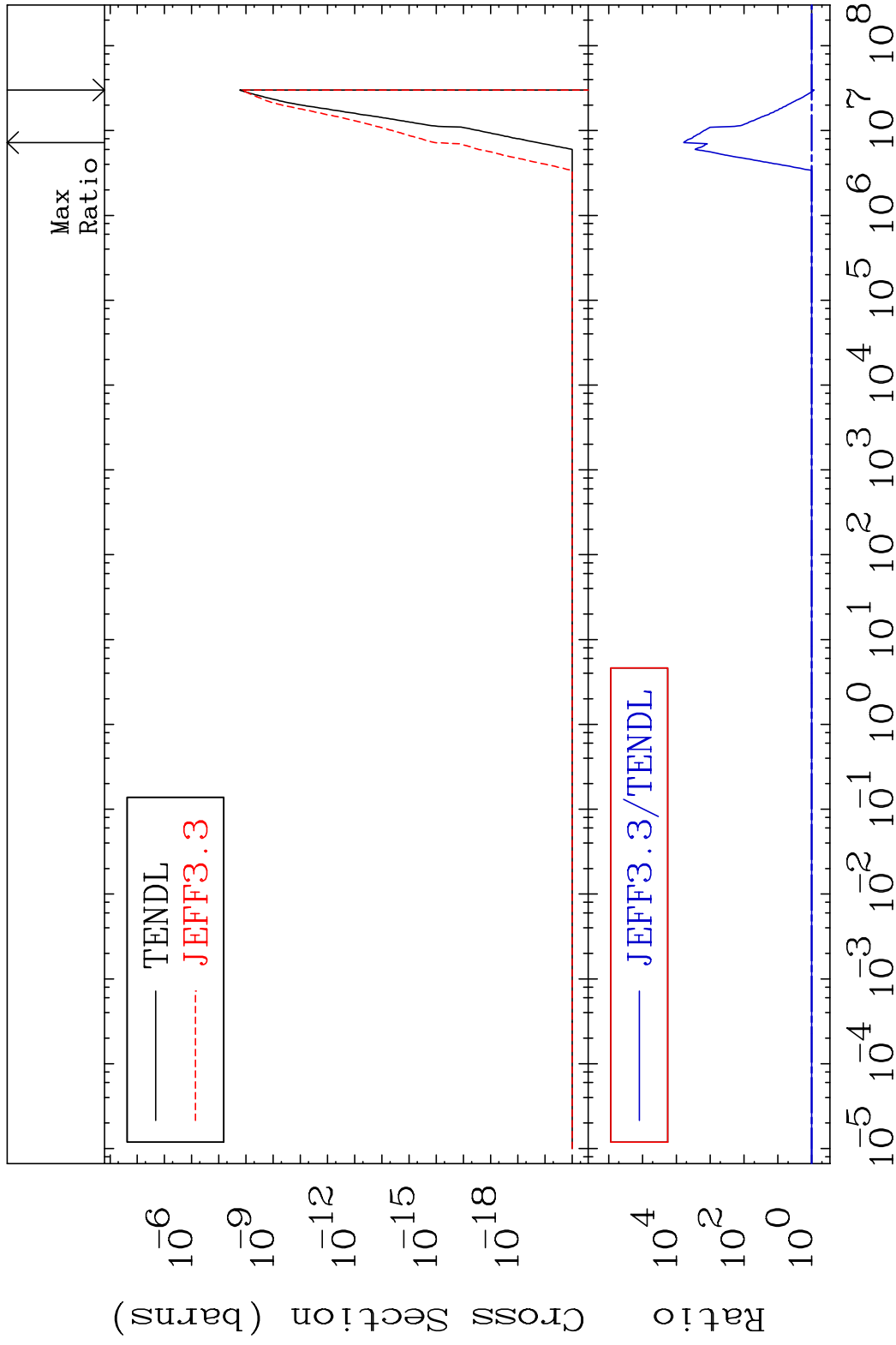
71-Lu-173

MAT 7119

(n,2α)

71-Lu-173

Cross Section -15.13 To 9999. %



45

Incident Energy (eV)

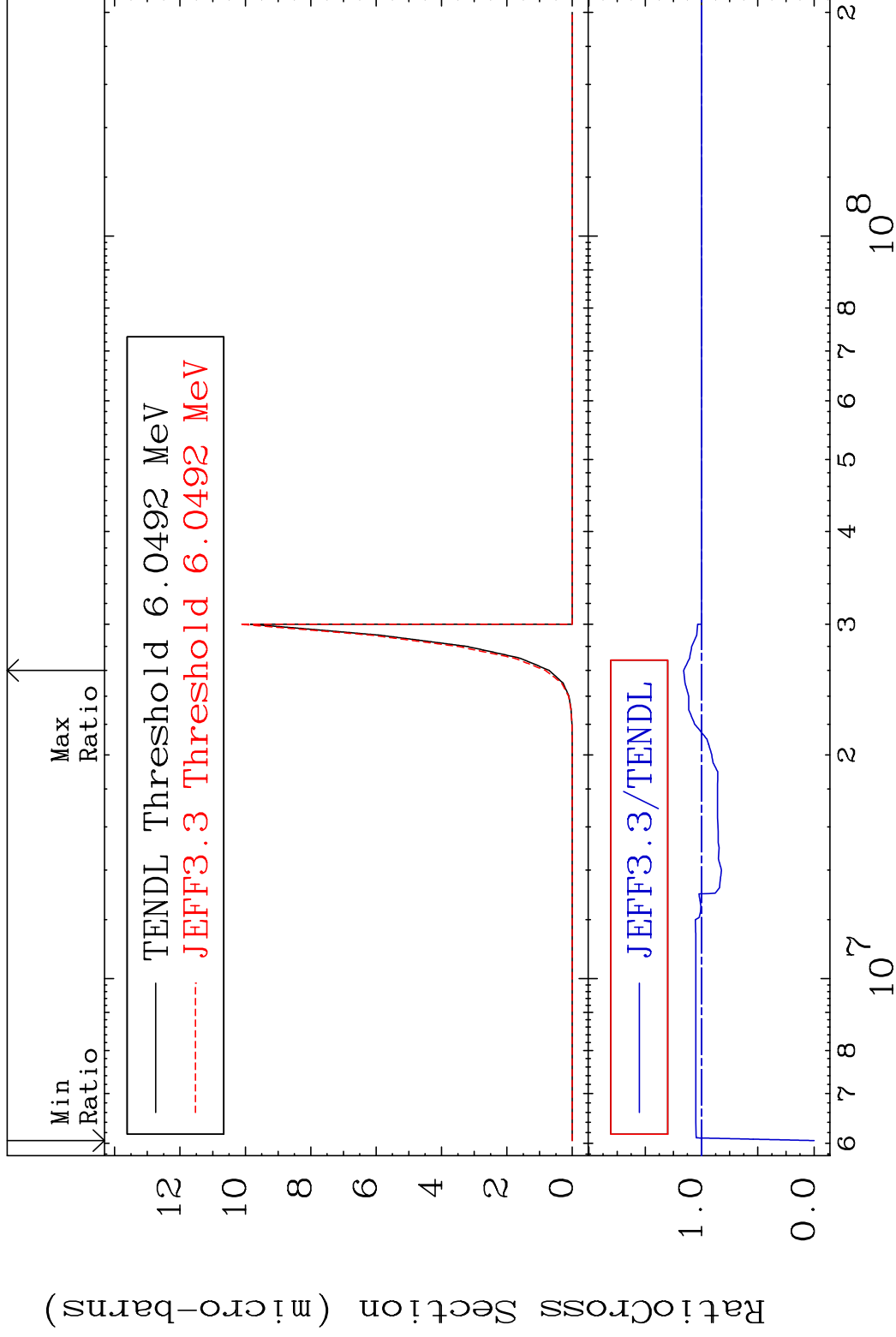
71-Lu-173

MAT 7119

(n,2p)

71-Lu-173

Cross Section -100.0 To 15.88 %



46

Incident Energy (eV)

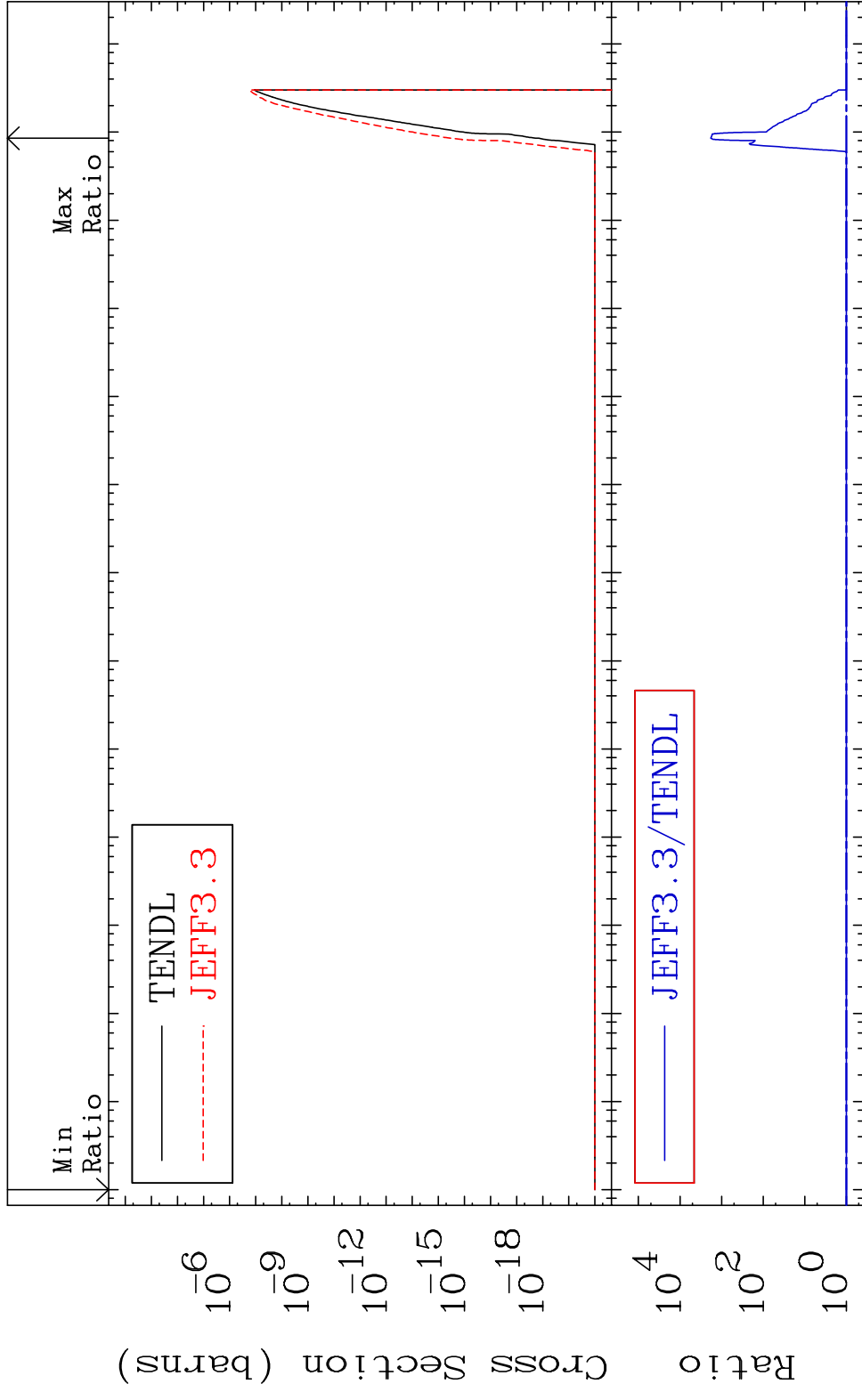
71-Lu-173

MAT 7119

(n,p) α

71-Lu-173

Cross Section 0.000 To 9999. %



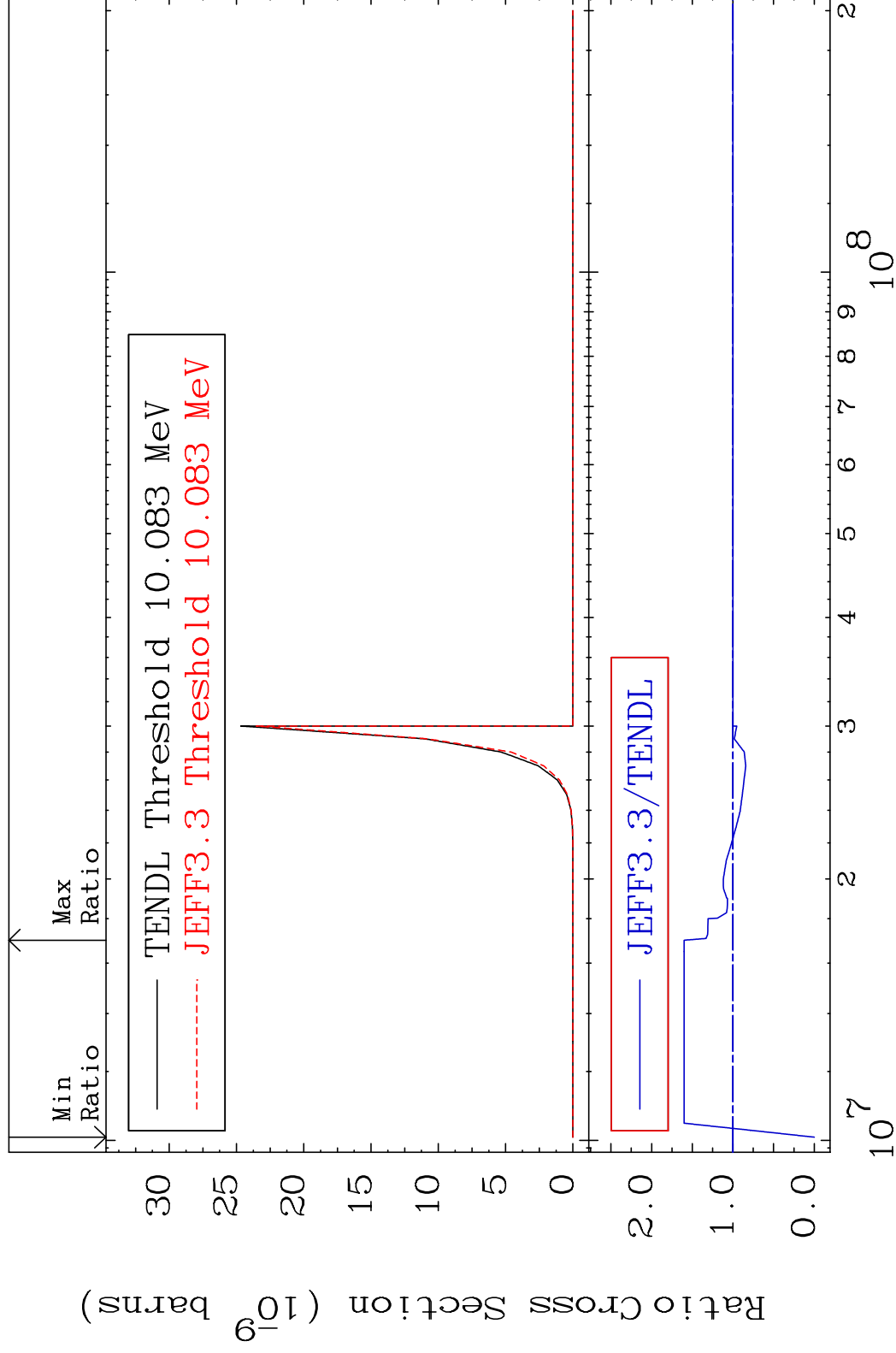
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

MAT 7119

(n,p) d

71-Lu-173

Cross Section -100.0 To 60.10 %



48

Incident Energy (eV)

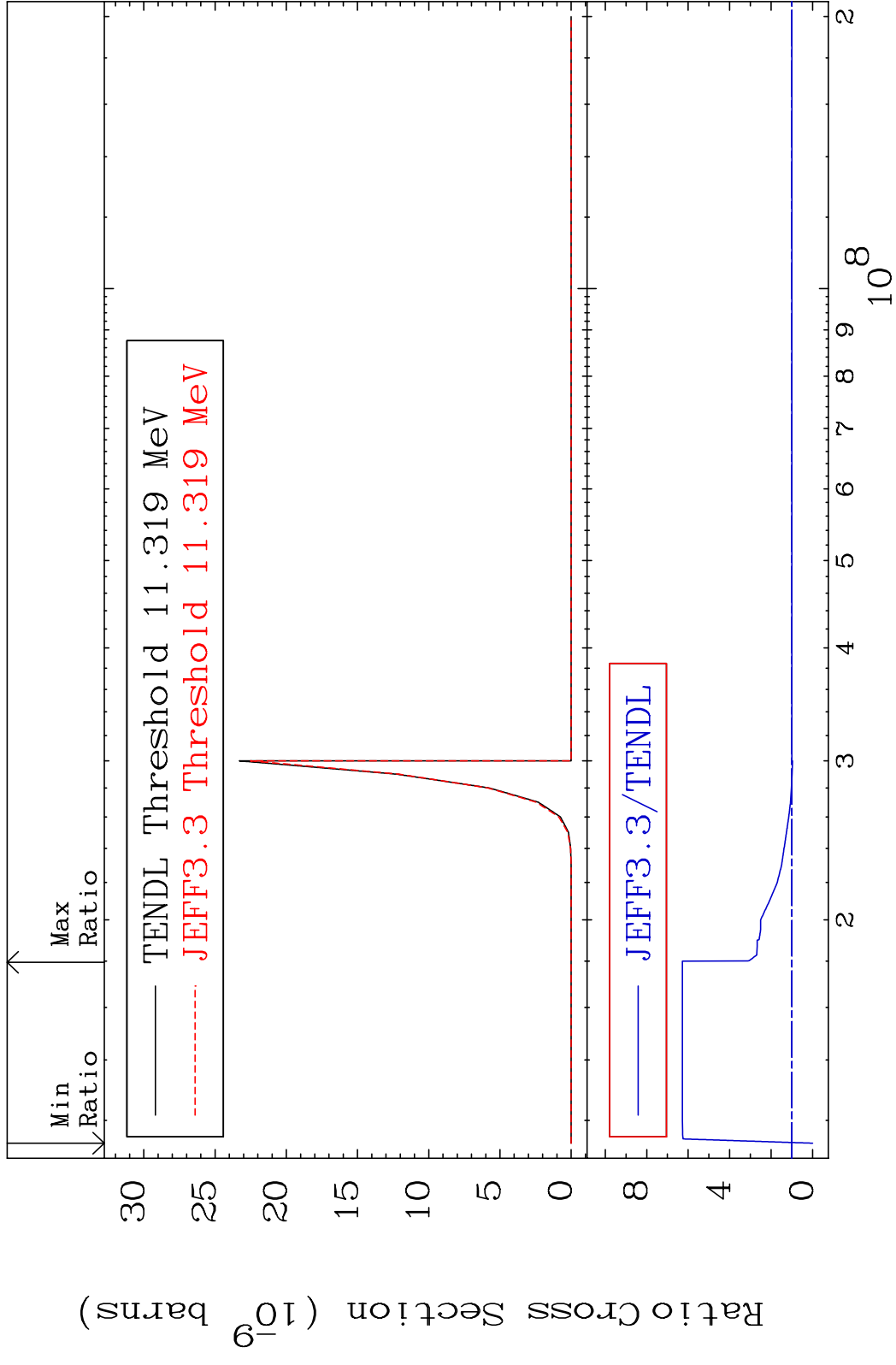
71-Lu-173

MAT 7119

(n,p) t

71-Lu-173

Cross Section -100.0 To 528.0 %

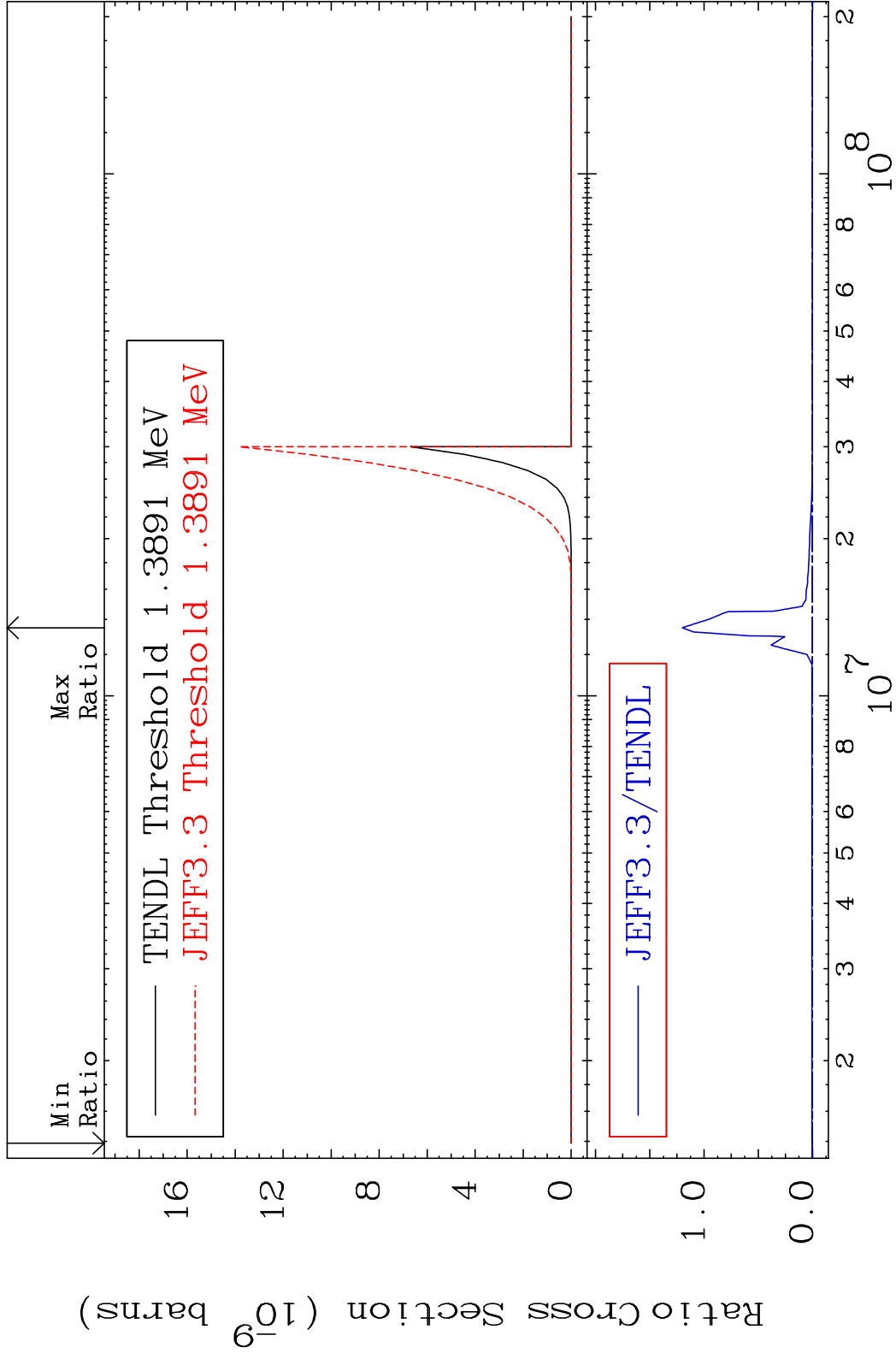


MAT 7119

(n,d) α

71-Lu-173

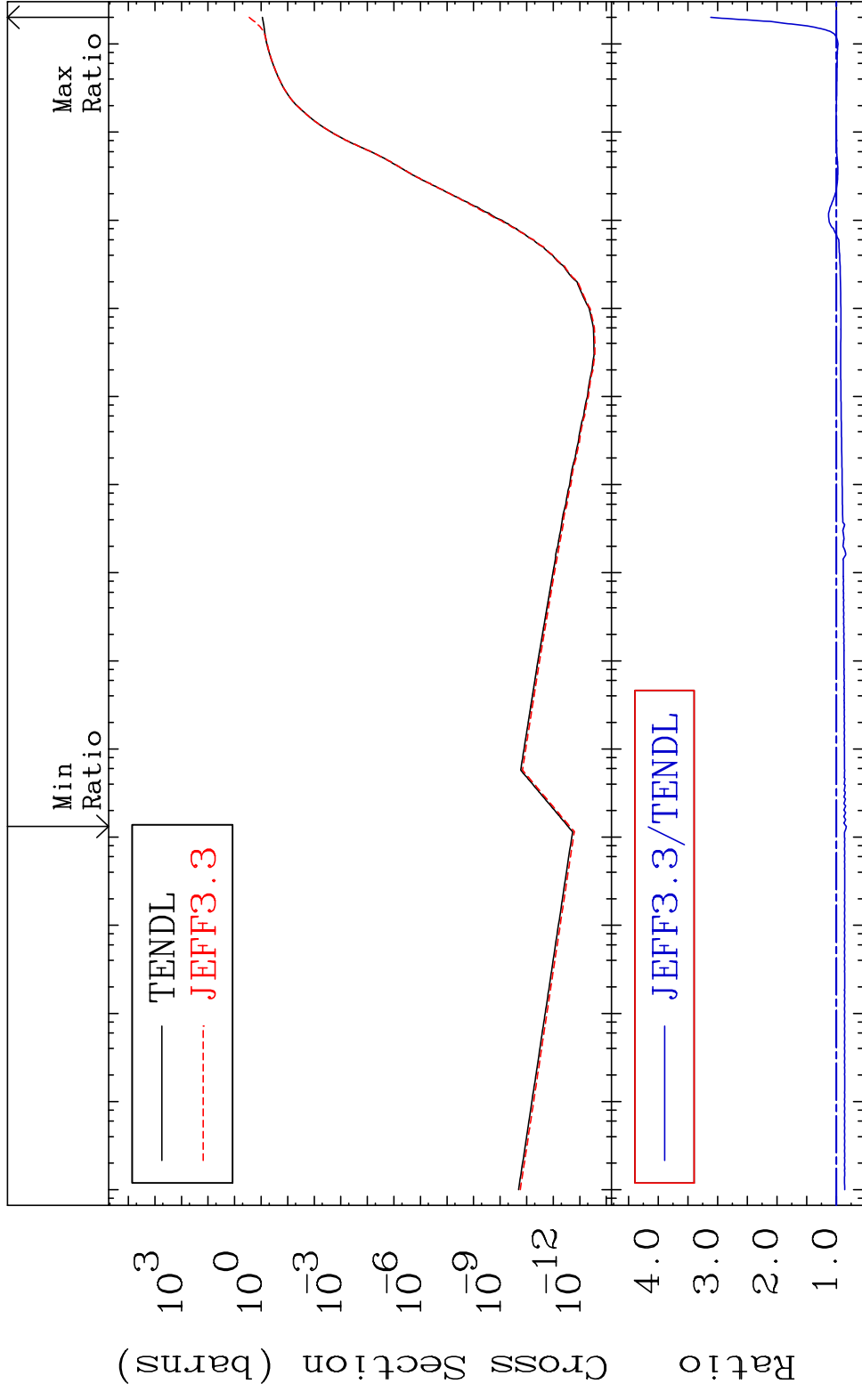
Cross Section -100.0 To 9999. %

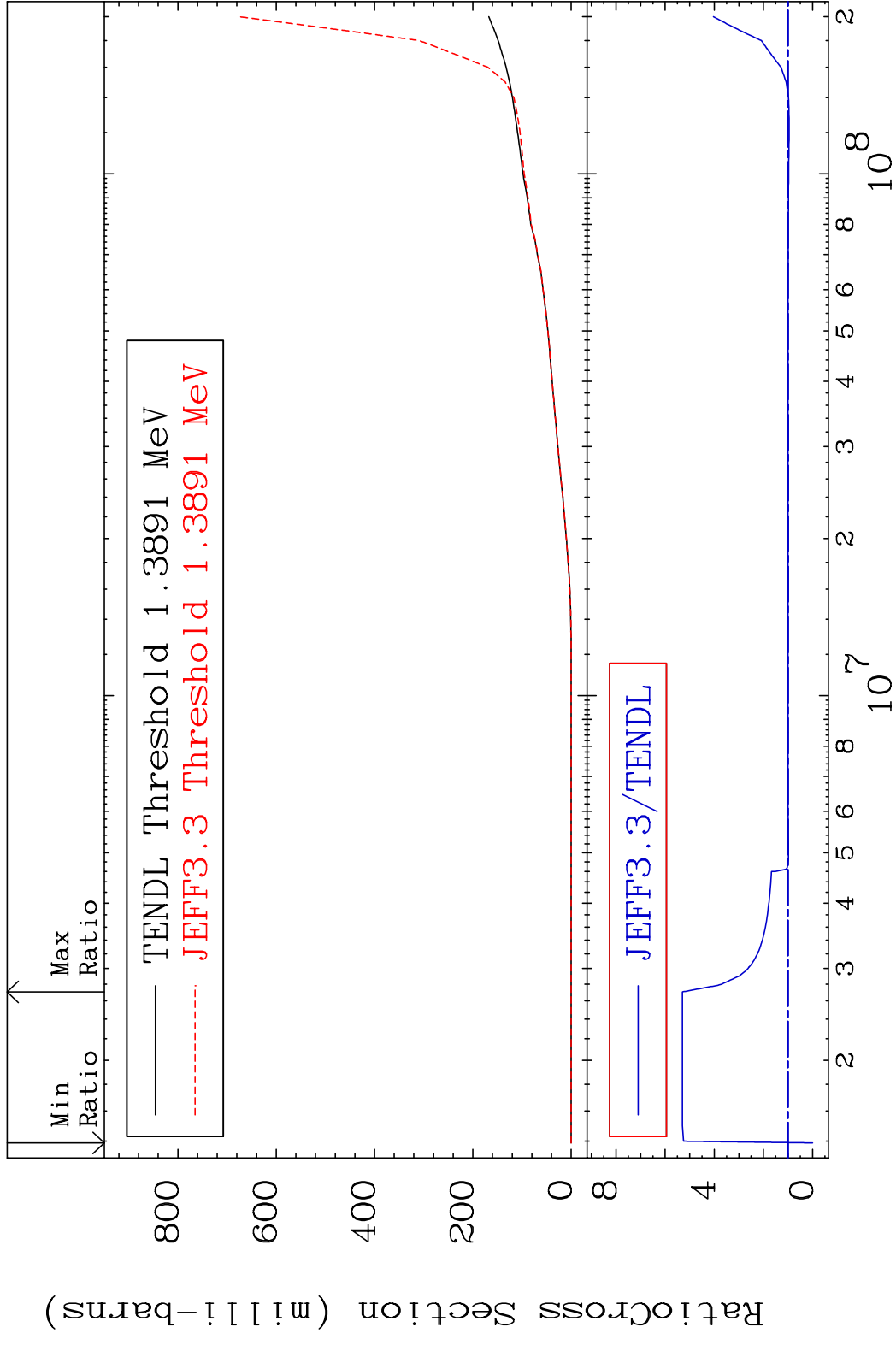


MAT 7119

Hydrogen Production
Cross Section -16.72 To 211.6 %

71-Lu-173



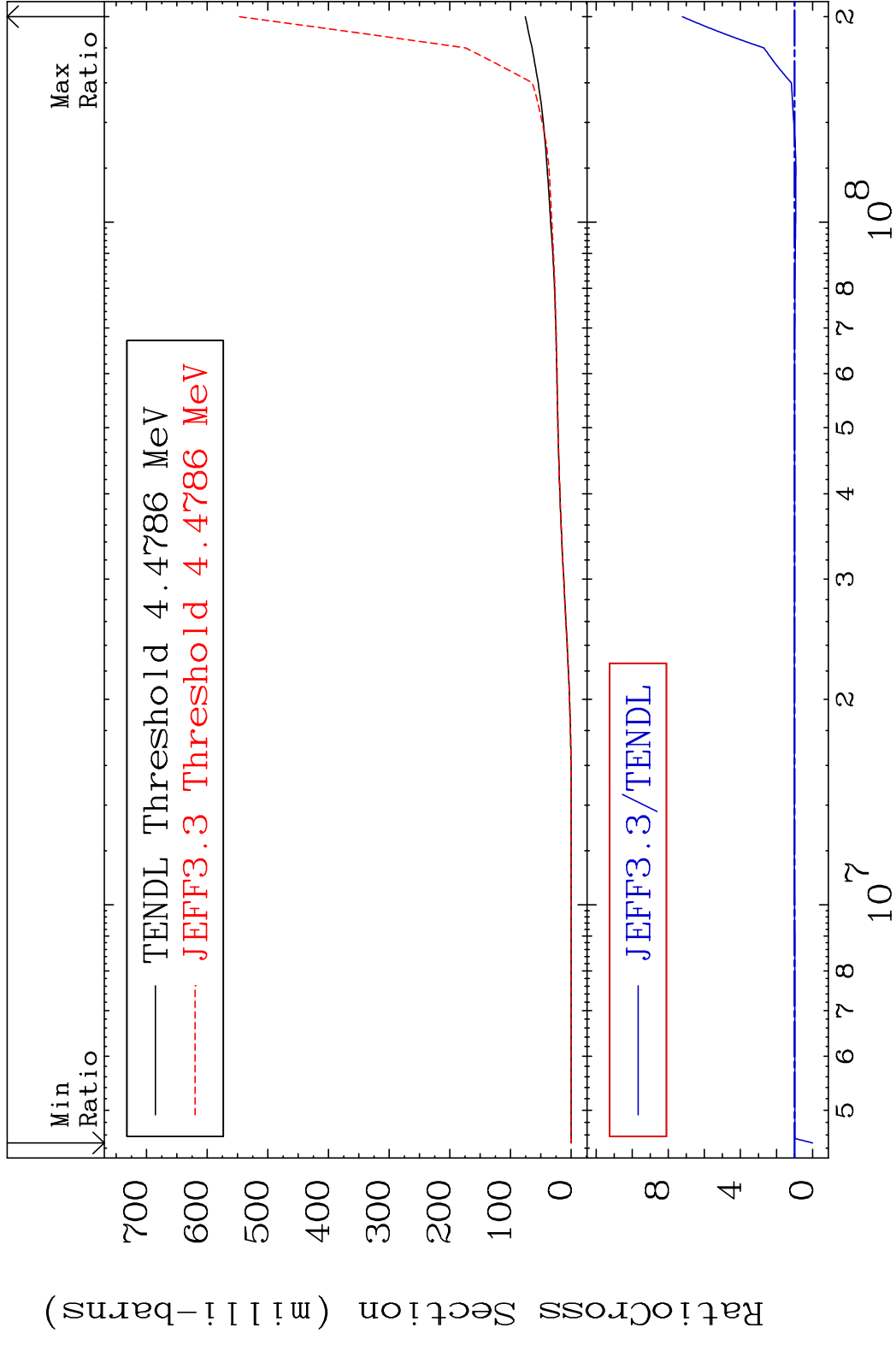


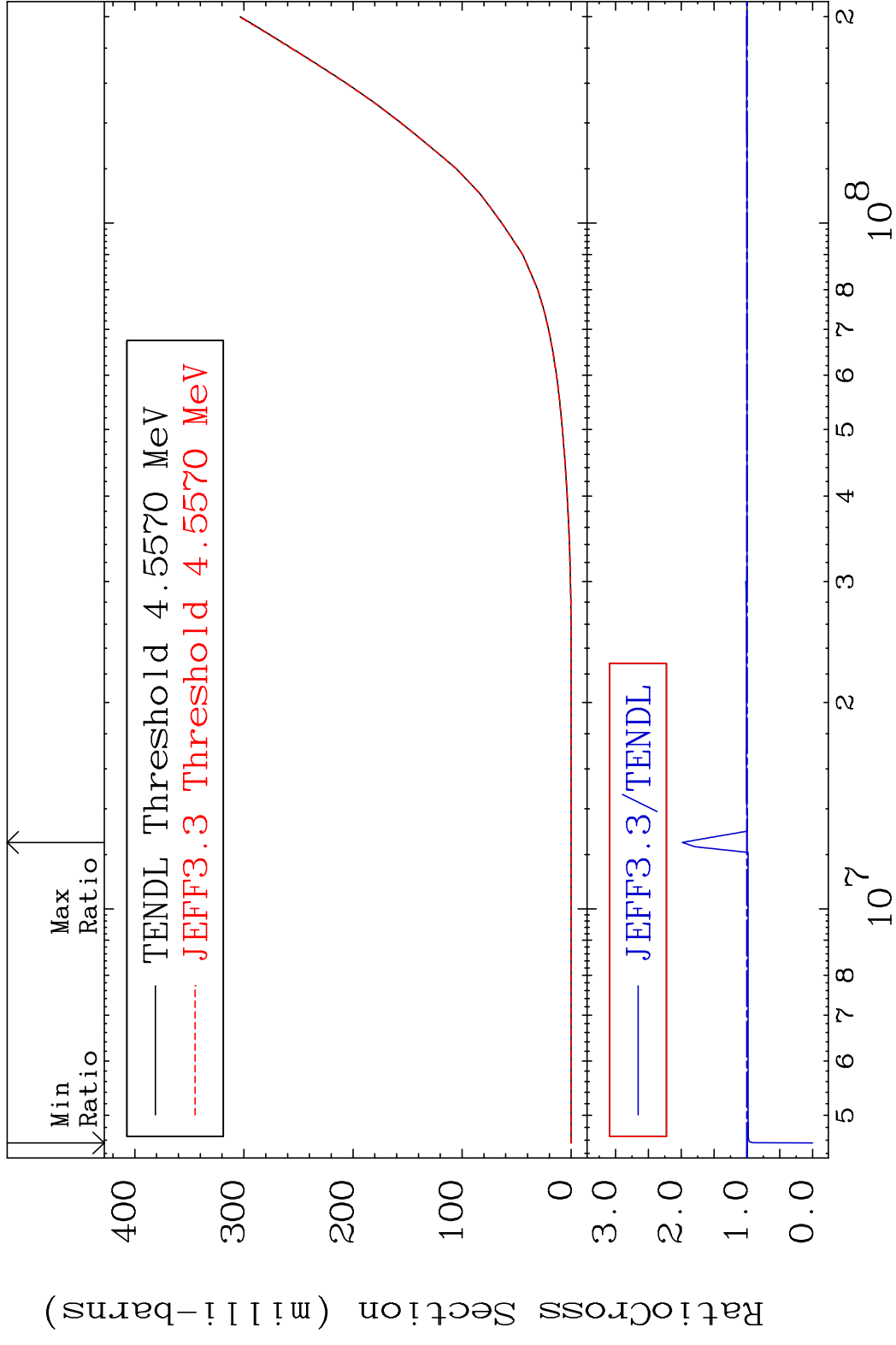
MAT 7119

Tritium Production

71-Lu-173

Cross Section -100.0 To 621.8 %



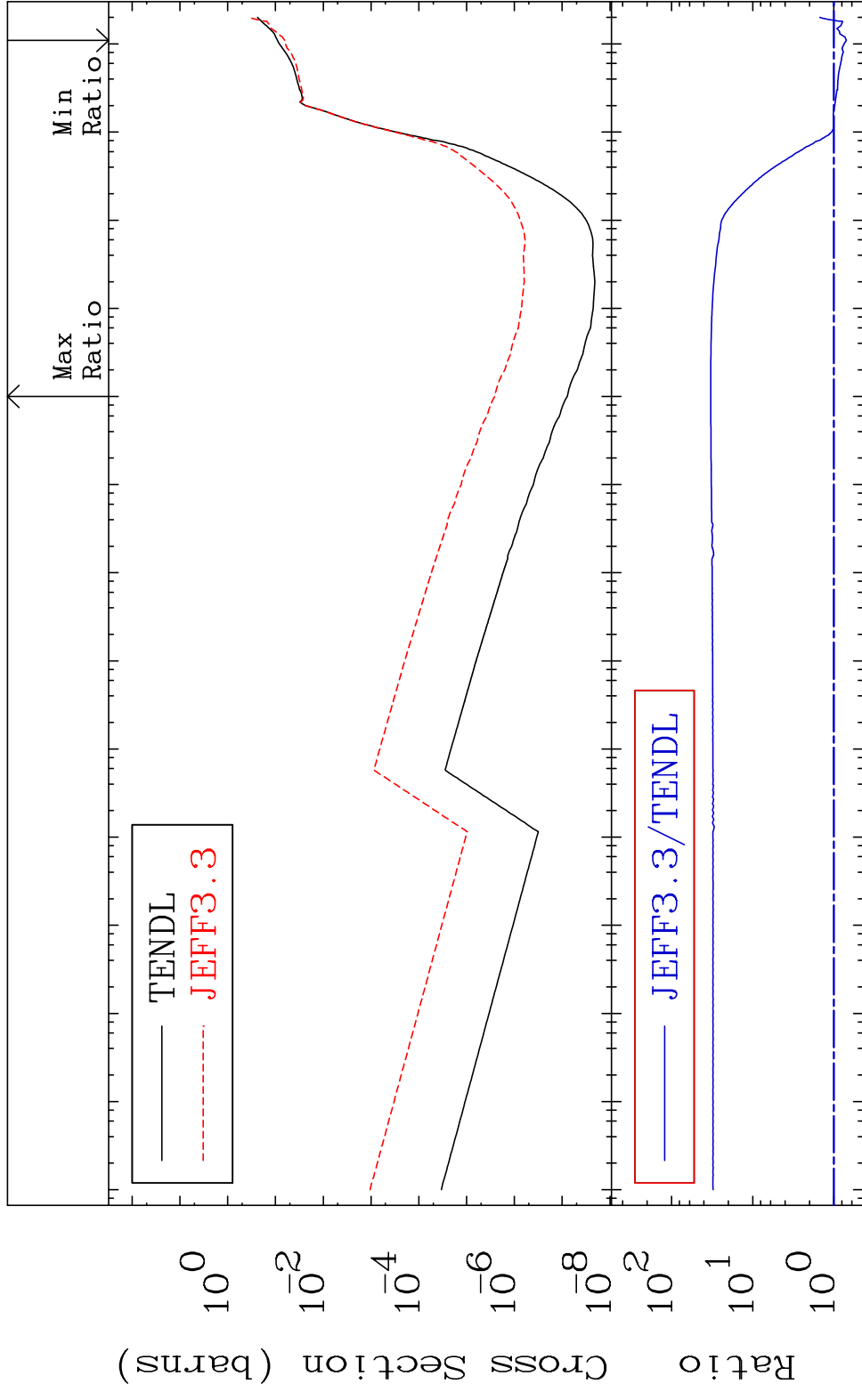


MAT 7119

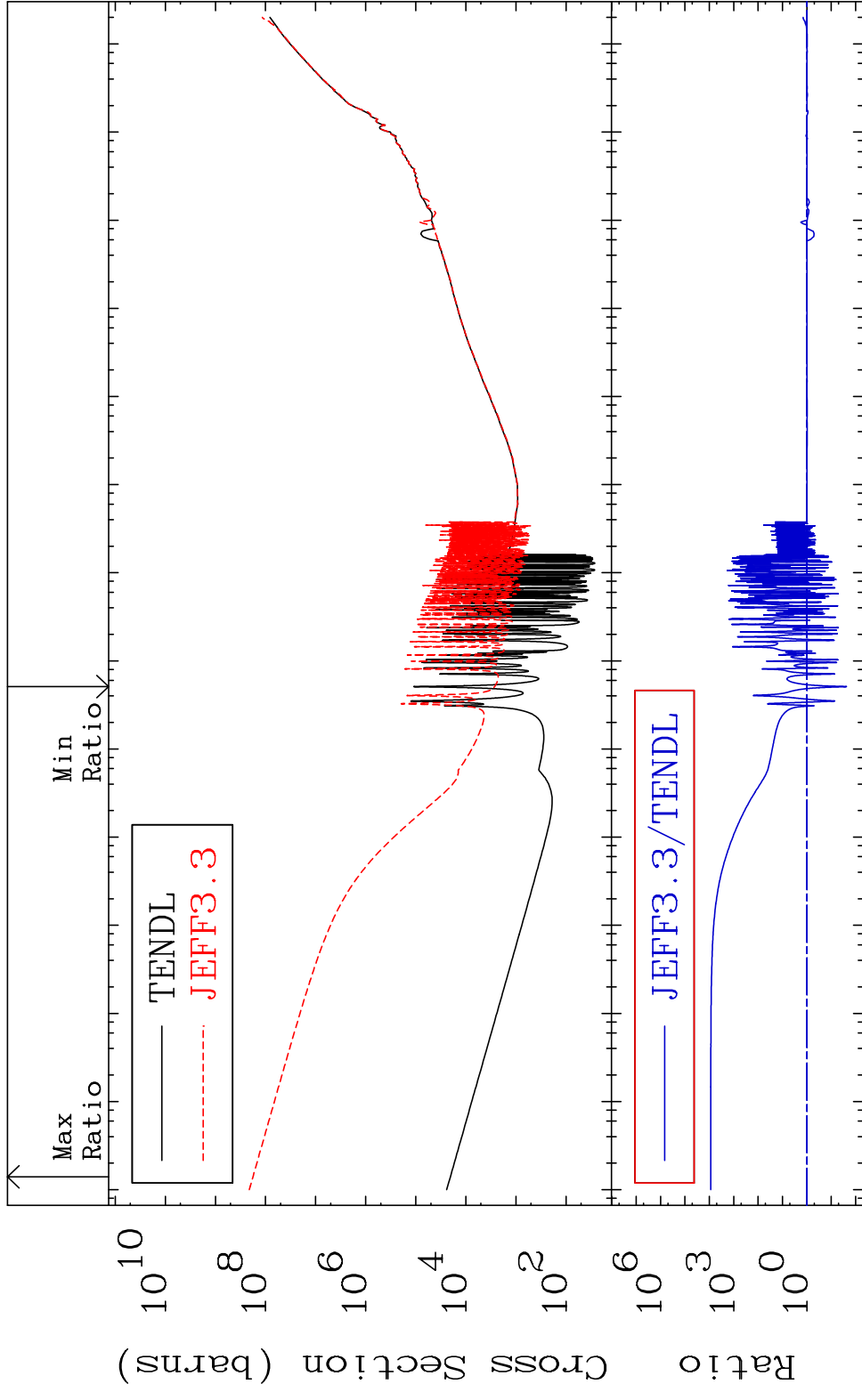
He-4 Production

71-Lu-173

Cross Section -29.69 To 3190. %



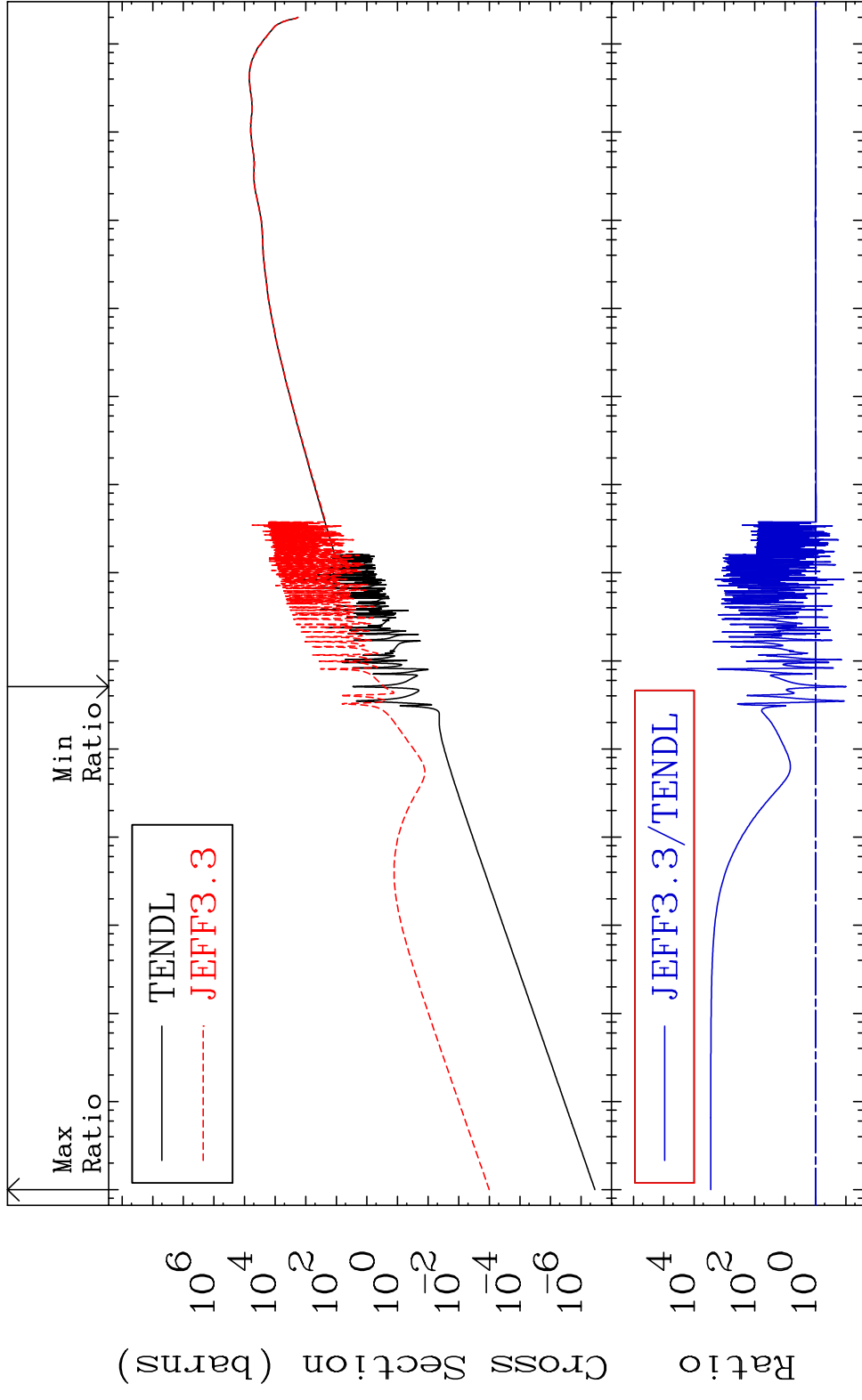
MAT 7119 Kerma total (eV-barns) 71-Lu-173
 Cross Section -97.59 To 9999. %



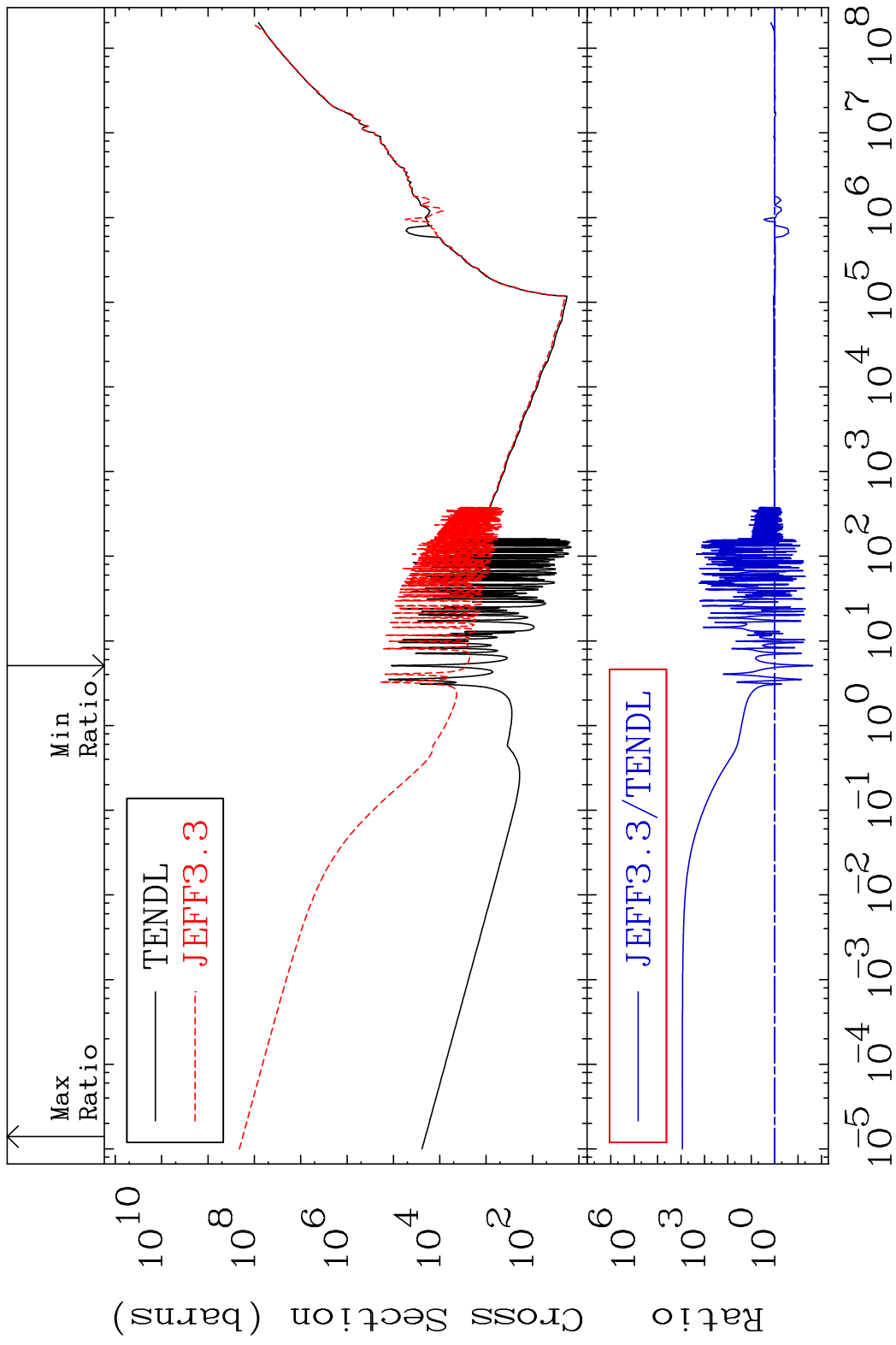
MAT 7119

Kerma elastic
Cross Section -90.38 To 9999. %

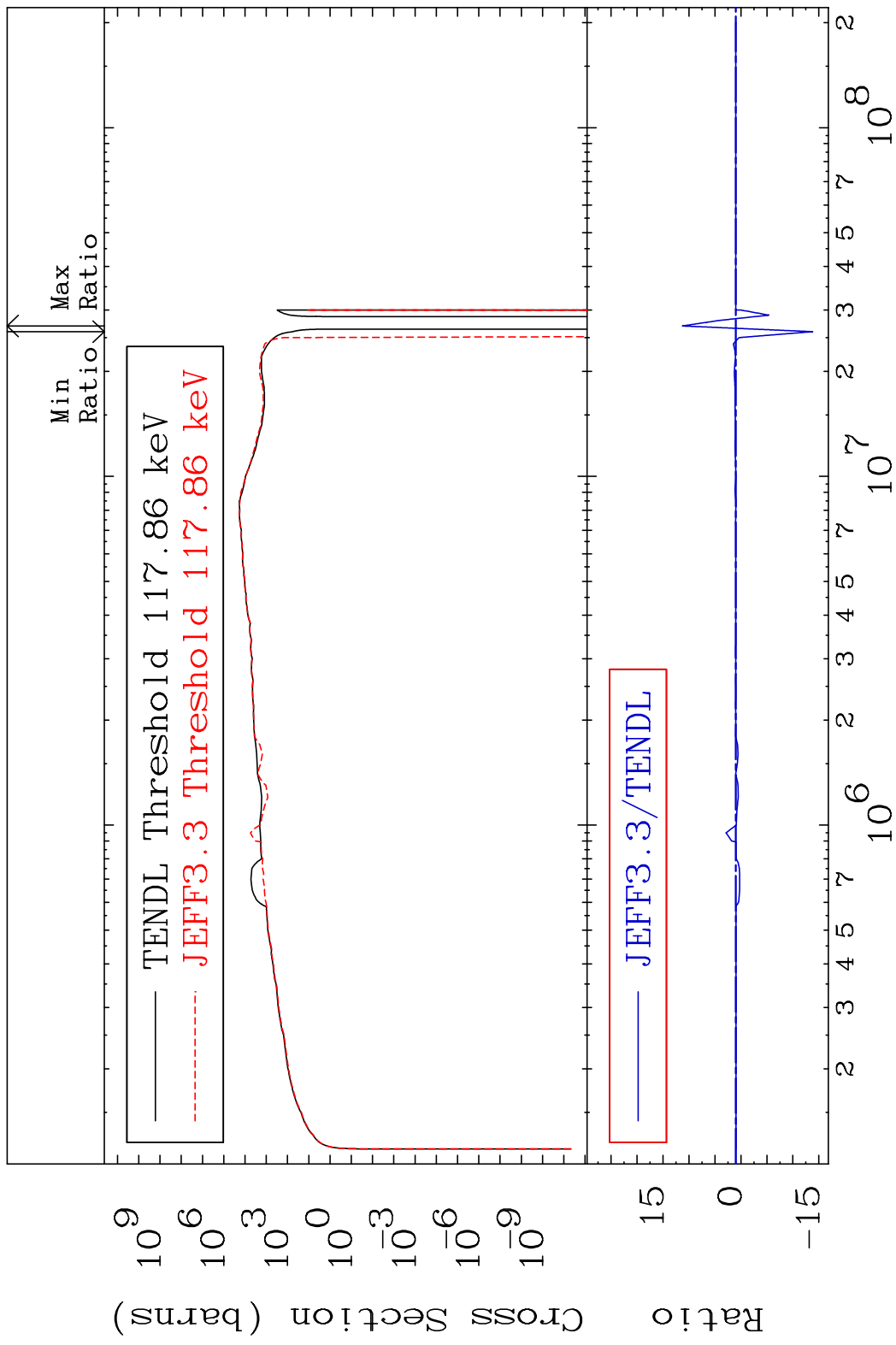
71-Lu-173



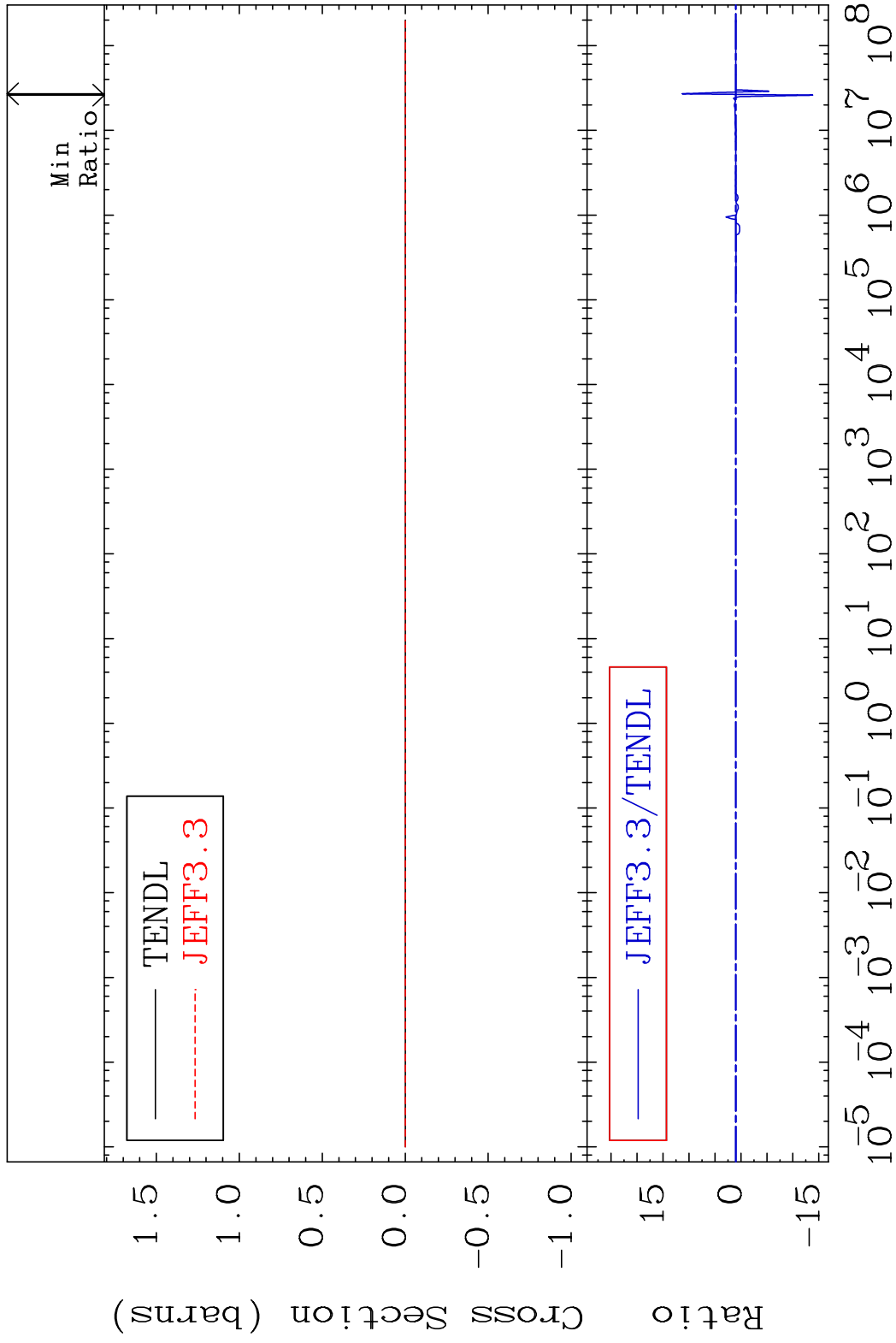
MAT 7119 Kerma non-elastic (all but mt2) 71-Lu-173
 Cross Section -97.59 To 9999. %



MAT 7119 Kerma inelastic (mt51-91) 71-Lu-173
 Cross Section -1479. To 1027. %

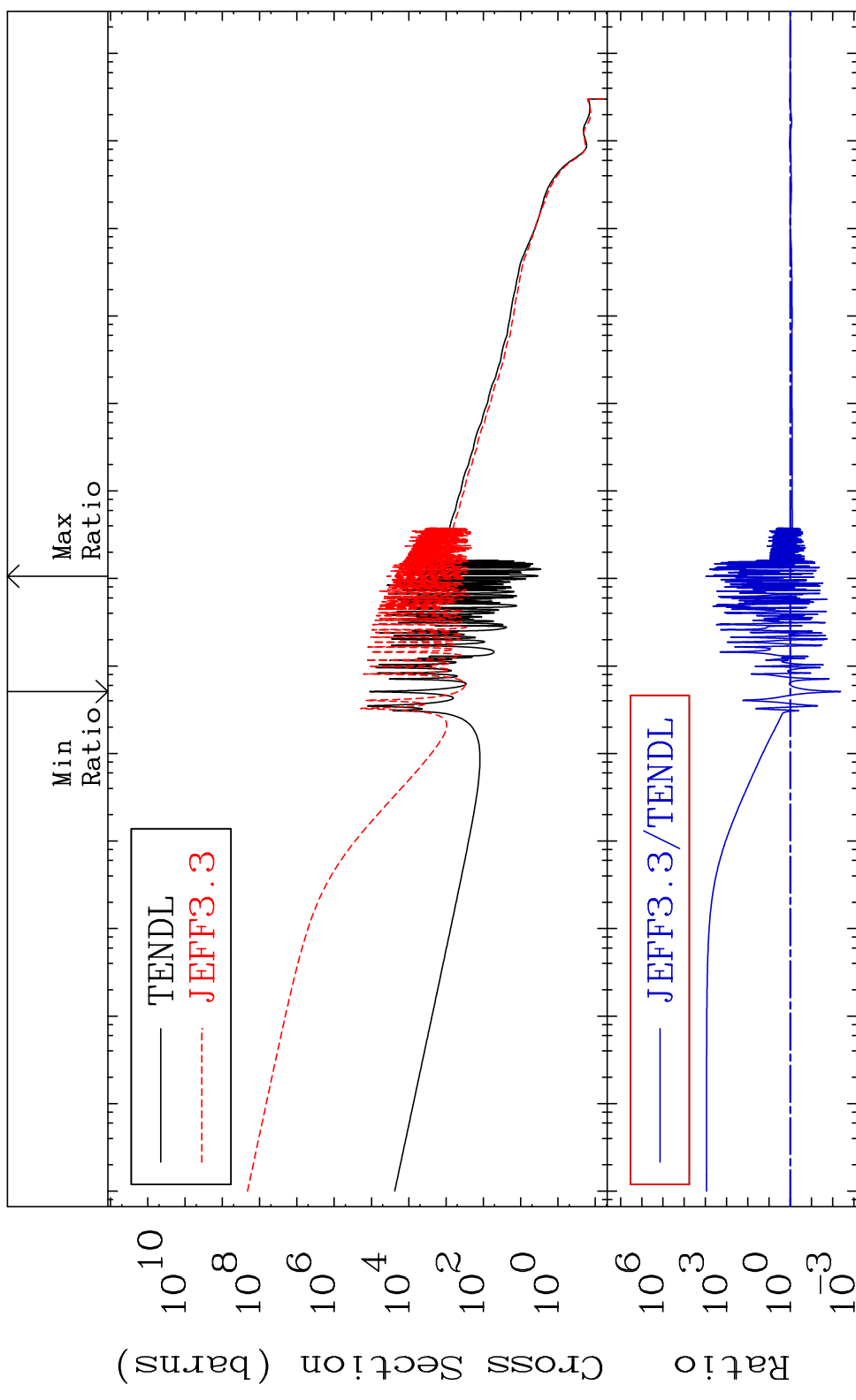


MAT 7119 Kerma fission (mt18 or mt19-20-21-38) 71-Lu-173
 Cross Section -1479. To 1027. %



MAT 7119

Kerma capture (mt102) 71-Lu-173
Cross Section -99.57 To 9999. %



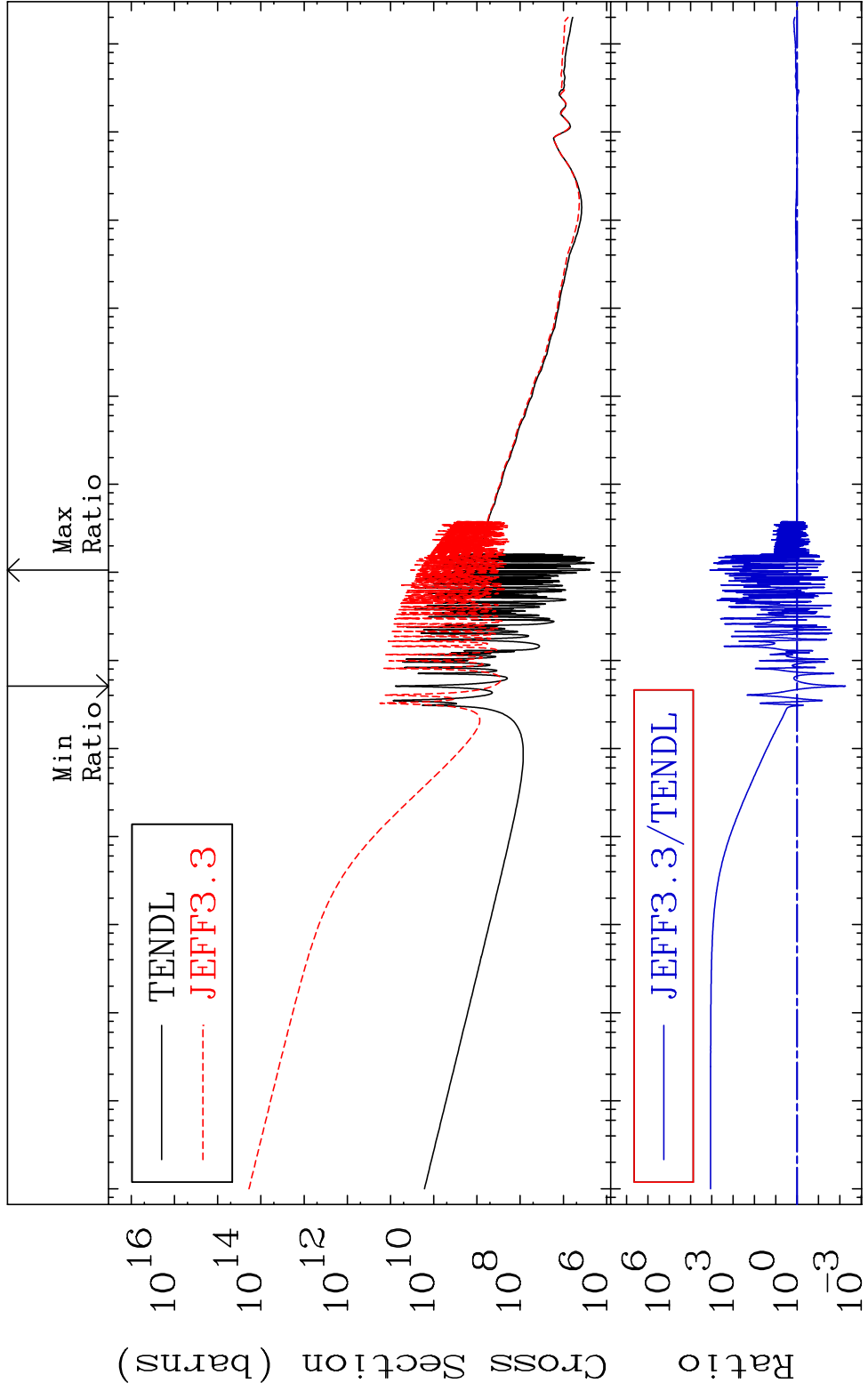
Ratio
Cross Section (barns)

61

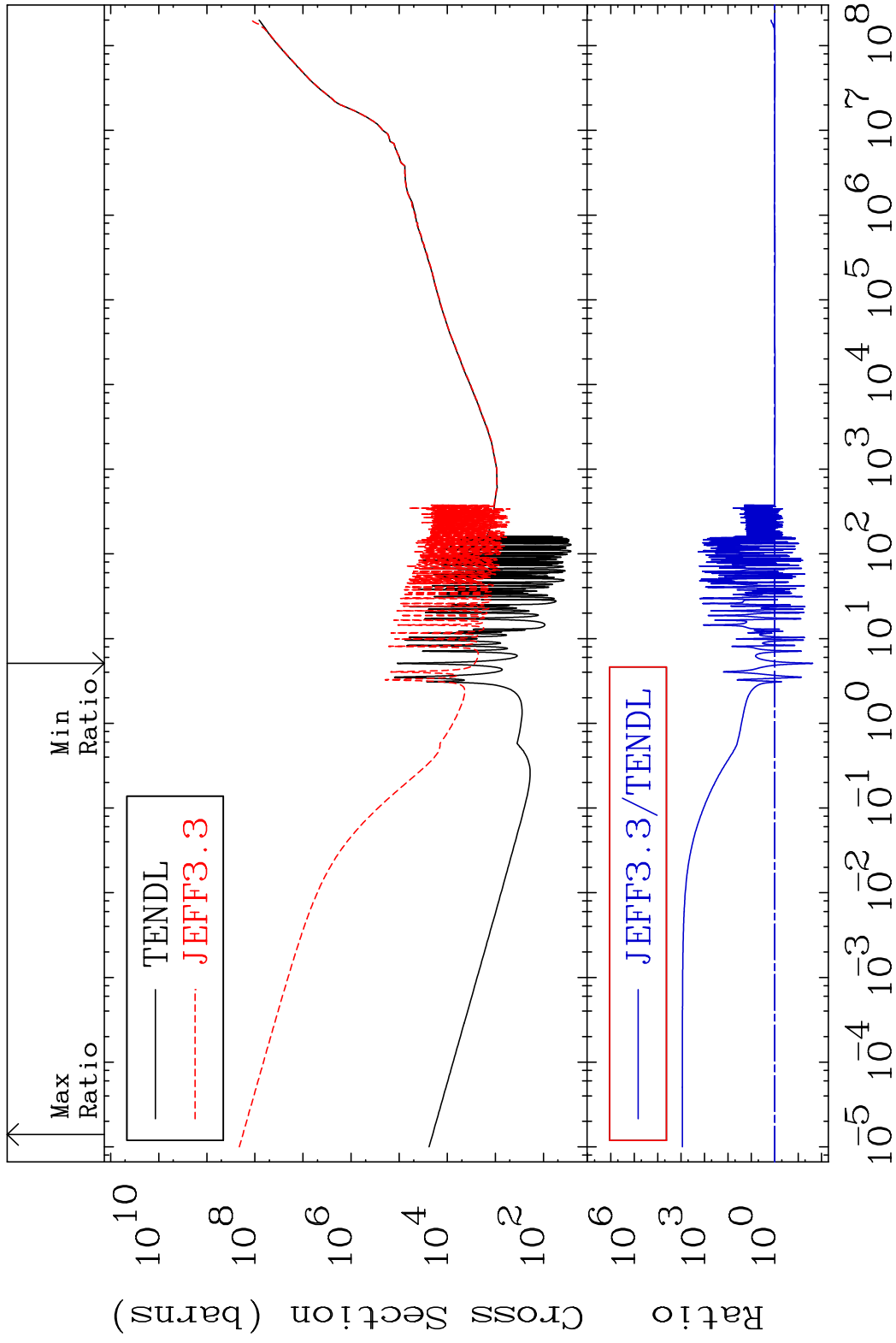
Incident Energy (eV)

71-Lu-173

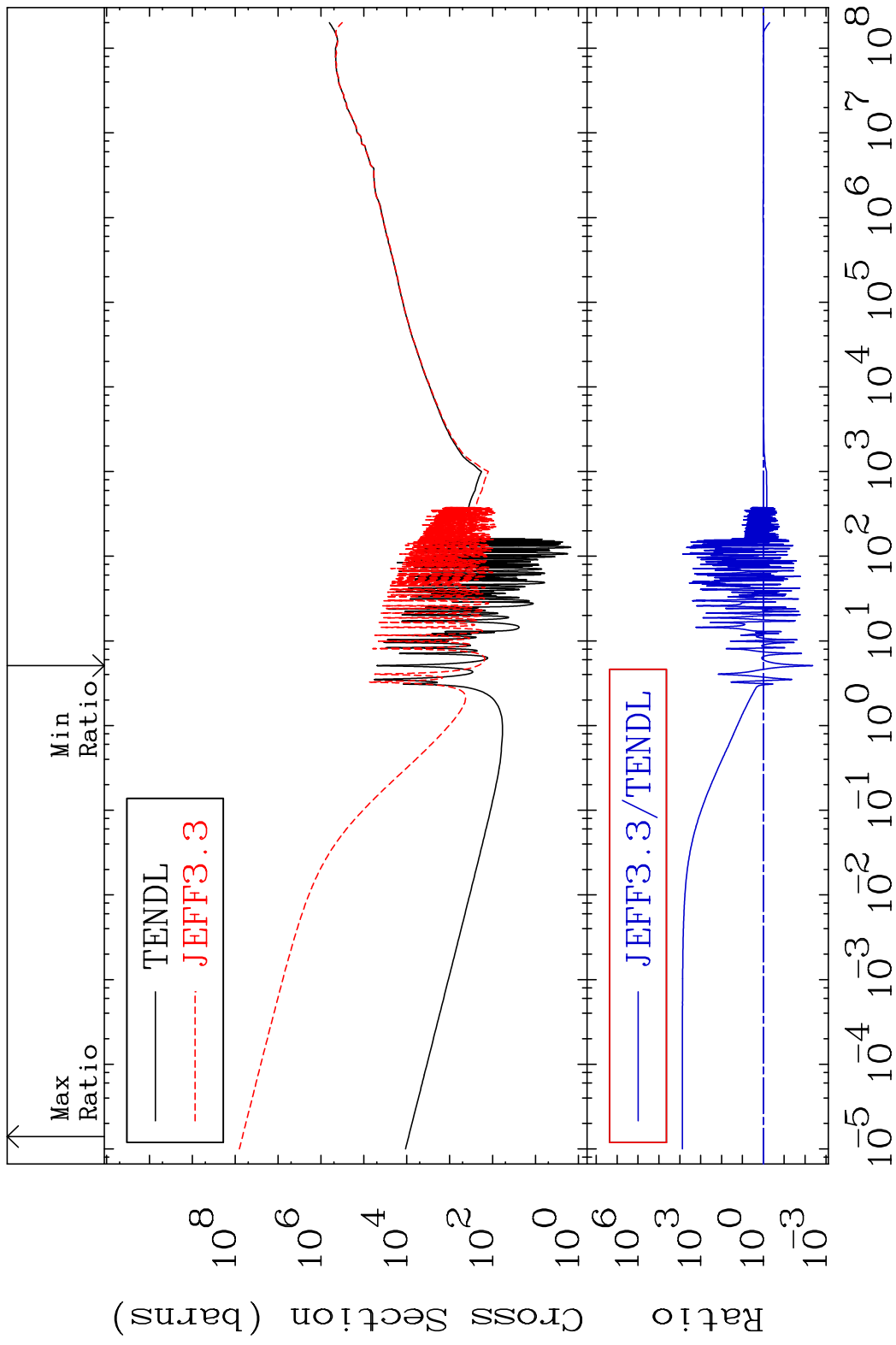
MAT 71119 Total photon (eV-barns) 71-Lu-173
 Cross Section -99.44 To 9999. %



MAT 7119 Total kinematic kerma (high limit) 71-Lu-173
 Cross Section -97.58 To 9999. %



MAT 7119 Dpa total (eV-barns) 71-Lu-173
 Cross Section -99.56 To 9999. %

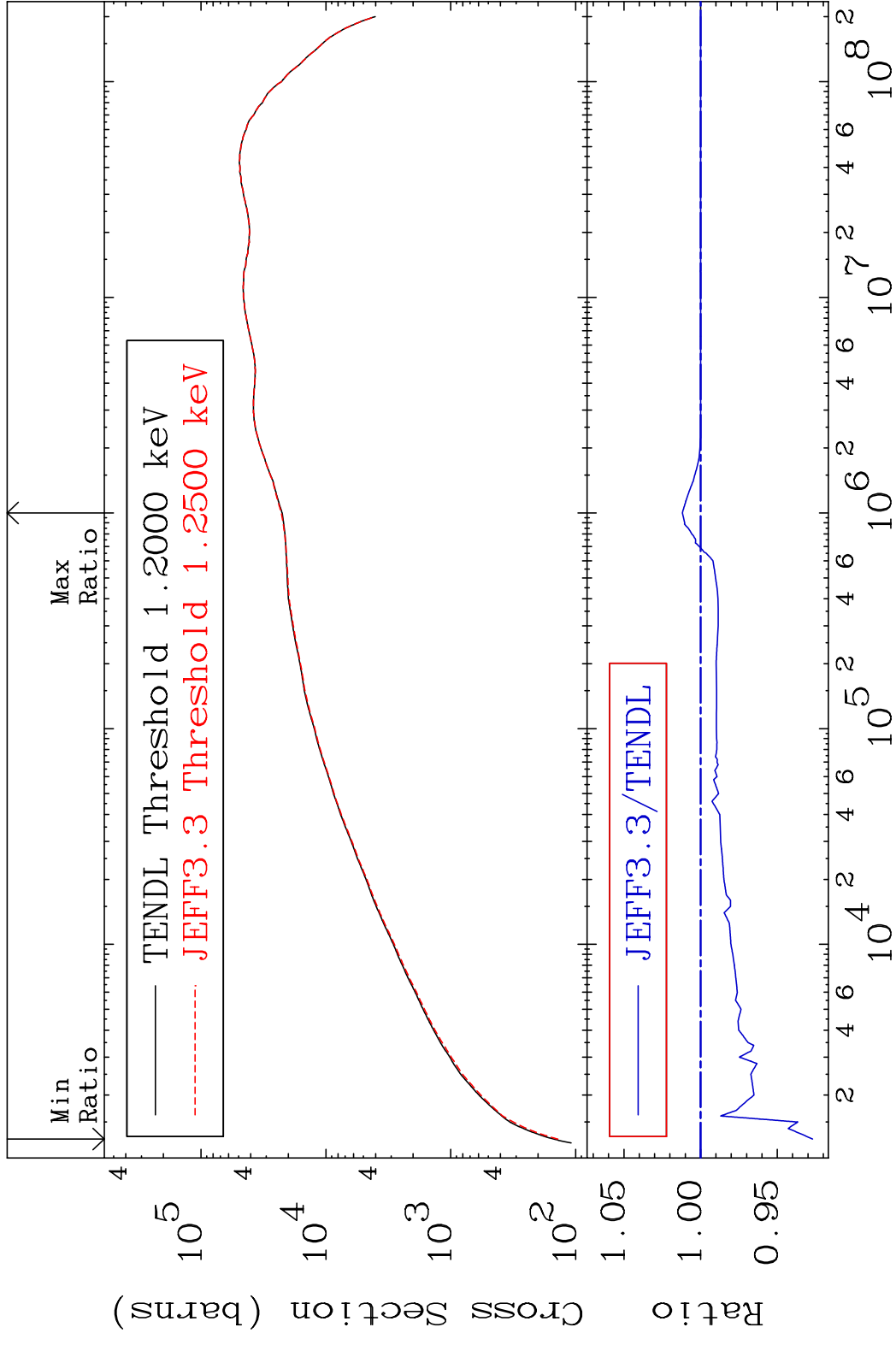


MAT 7119

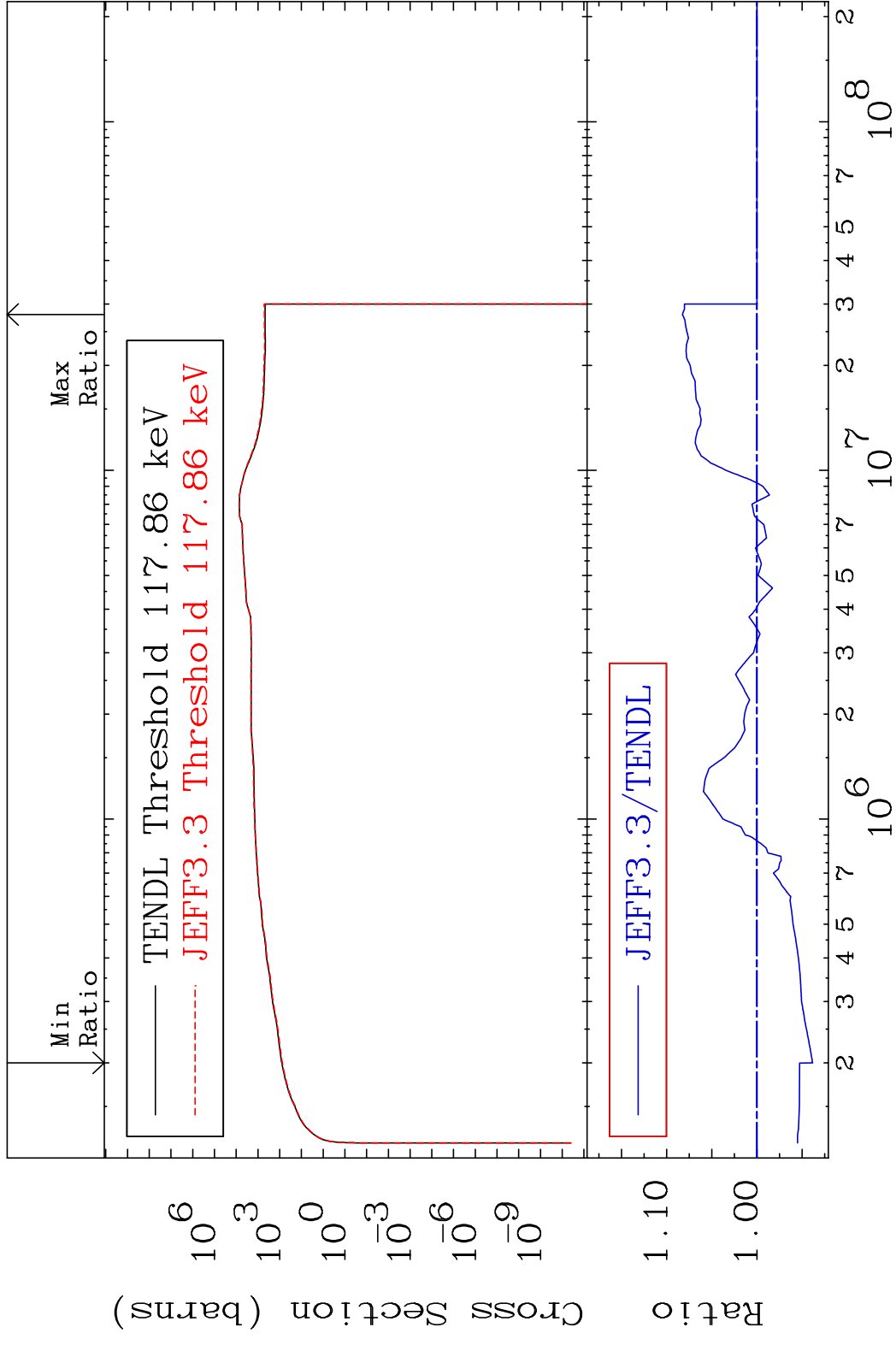
Dpa elastic (mt2)

71-Lu-173

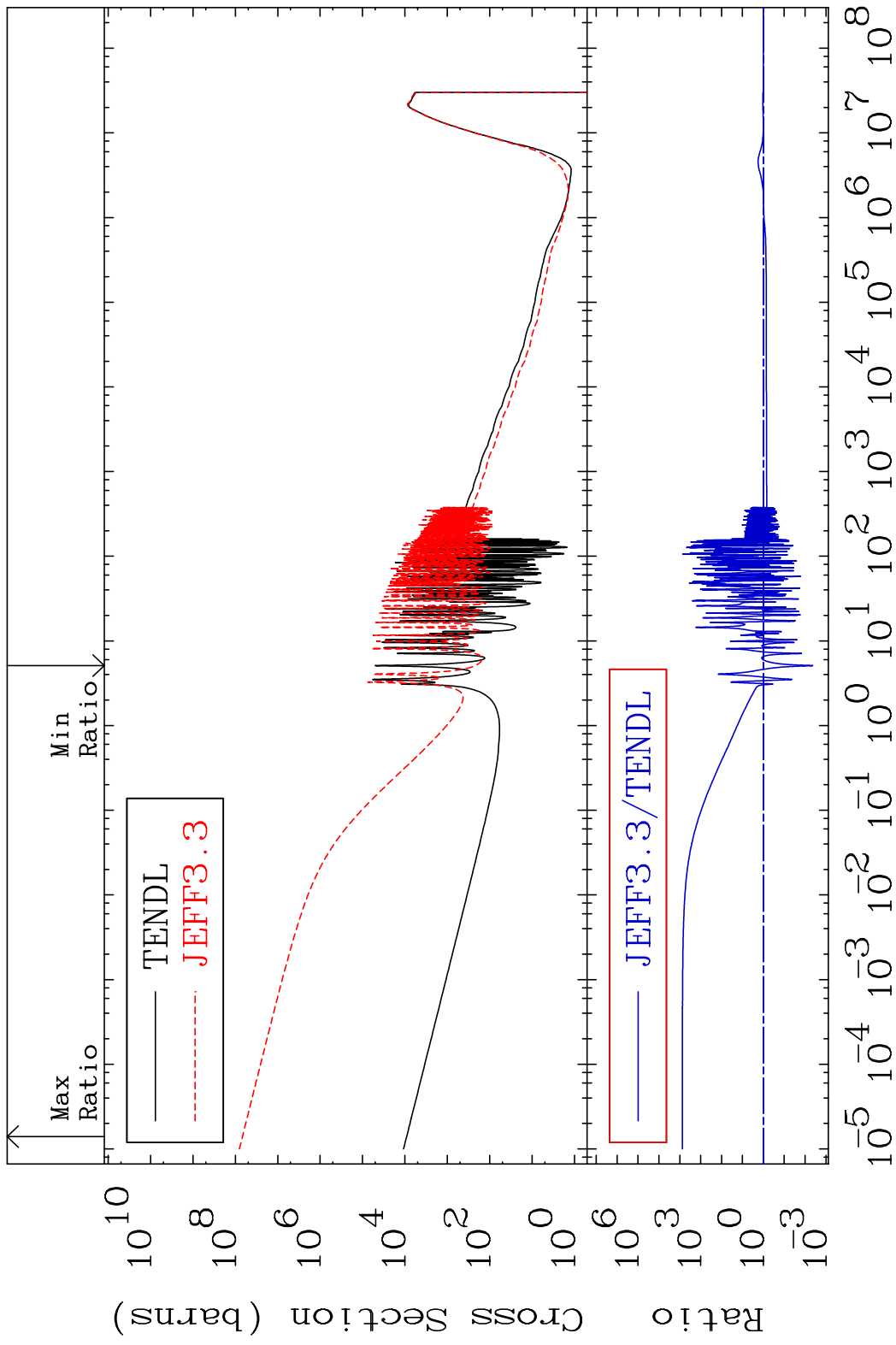
Cross Section -7.298 To 1.191 %



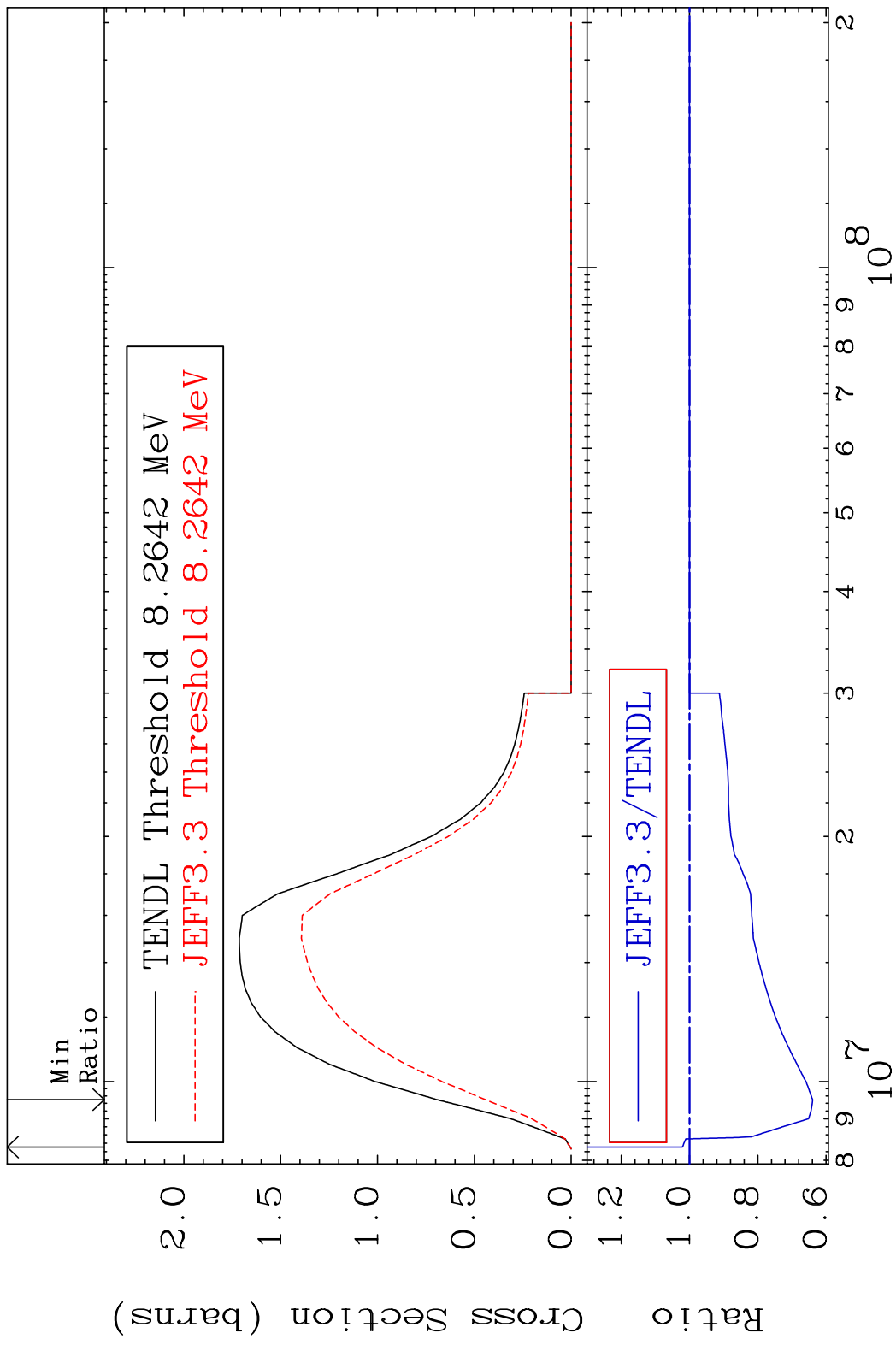
MAT 7119 Dpa inelastic (mt51-91) 71-Lu-173
 Cross Section -6.161 To 8.254 %



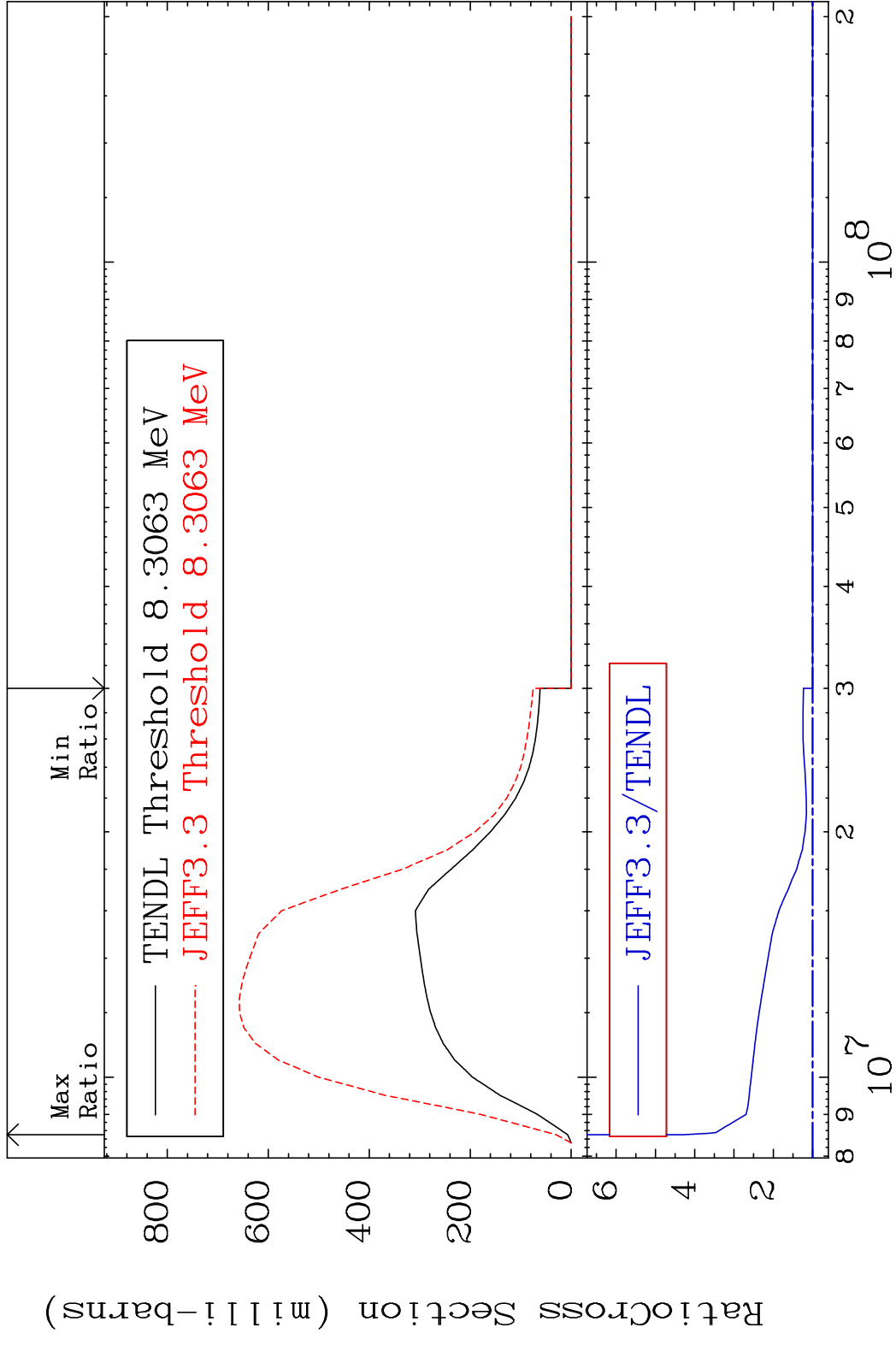
MAT 7119 Dpa disappearance (mt102 -120) 71-Lu-173
 Cross Section -99.56 To 9999. %



MAT 7119 (n,2n):71-Lu-172g 71-Lu-173
 Radionuclide Production Cross Section 36.05 dpo 2.109 %

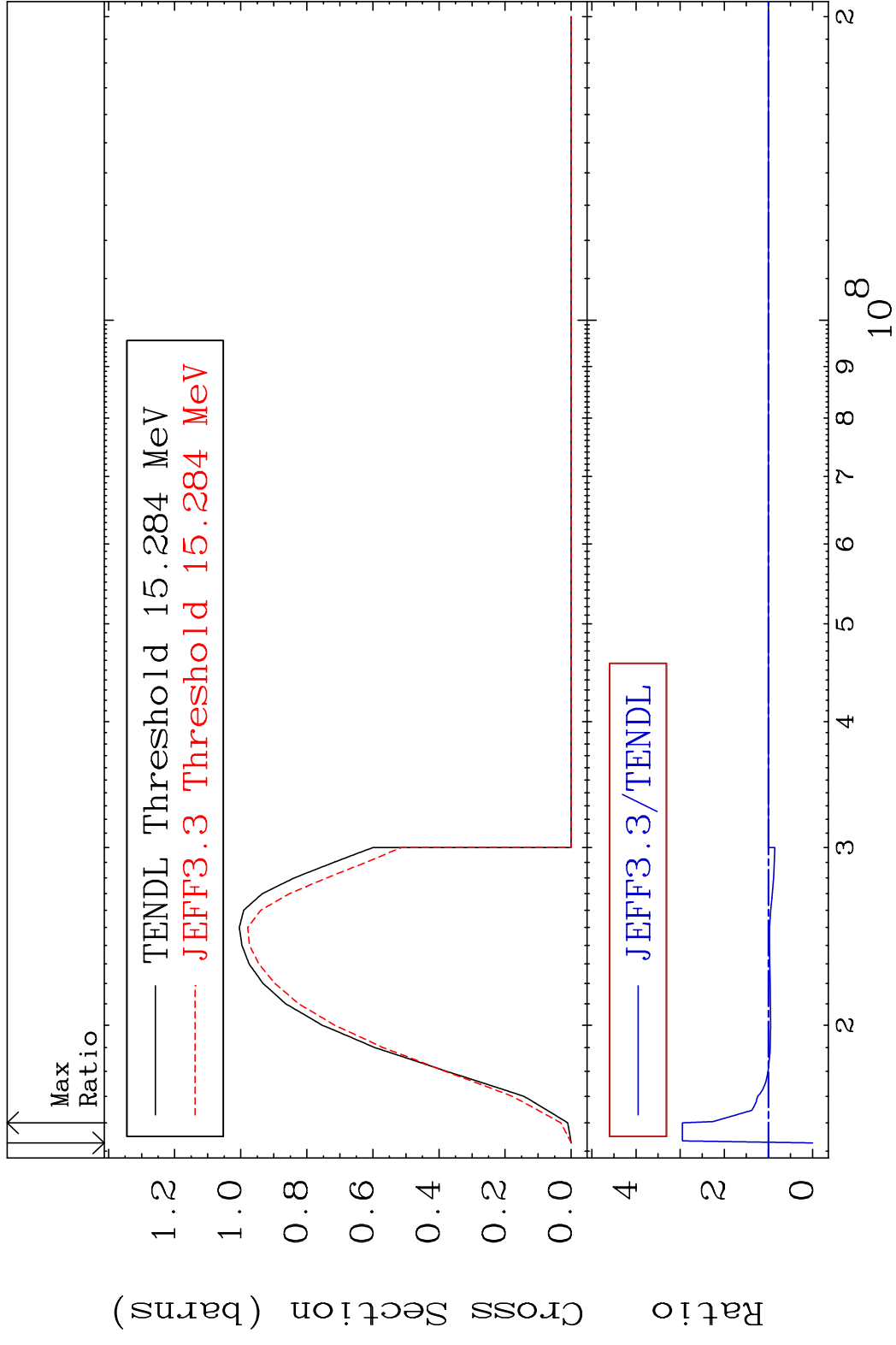


MAT 7119 (n,2n):71-Lu-172m1 71-Lu-173
 Radionuclide Production Cross Section 331.4 %

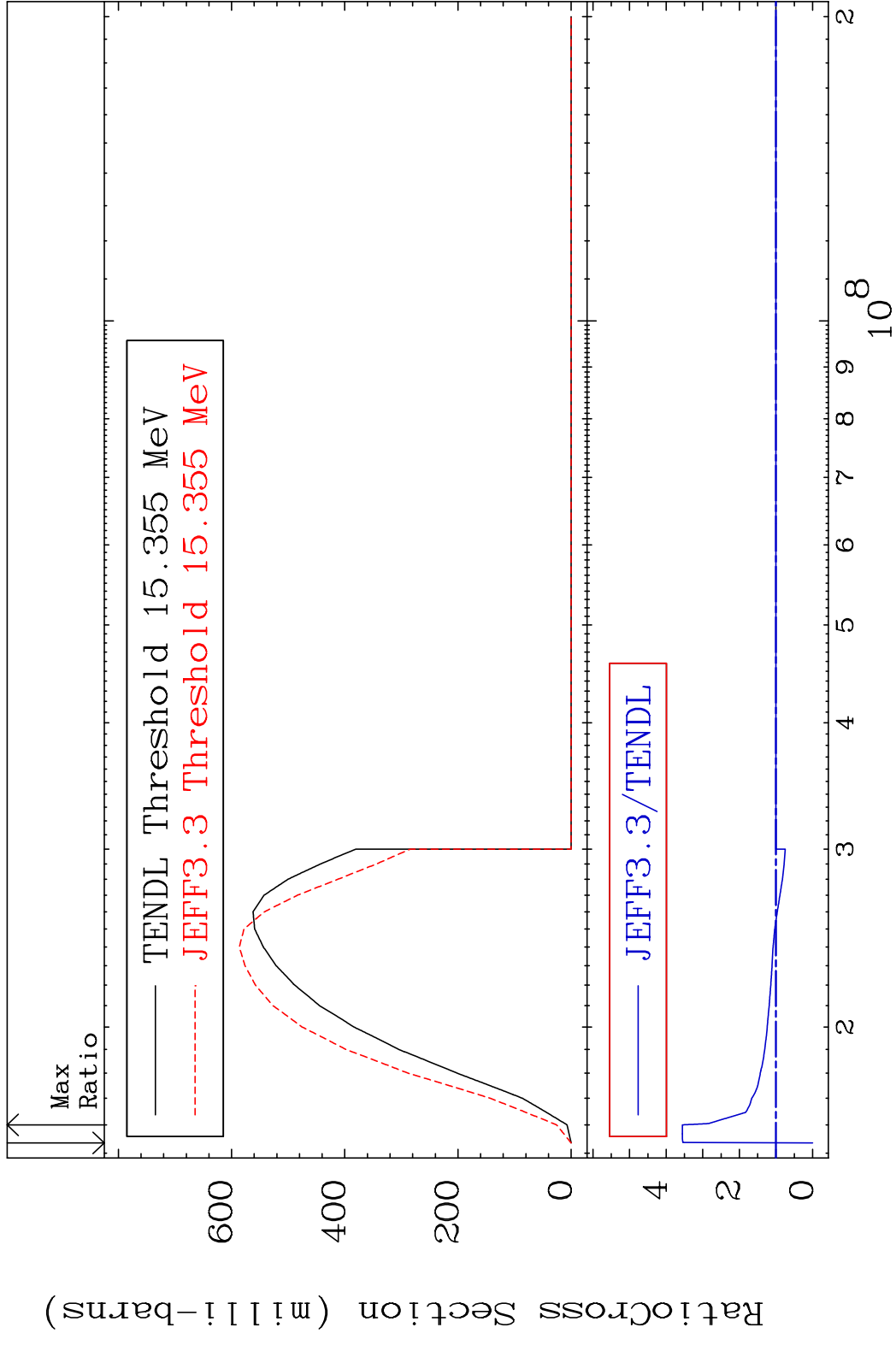


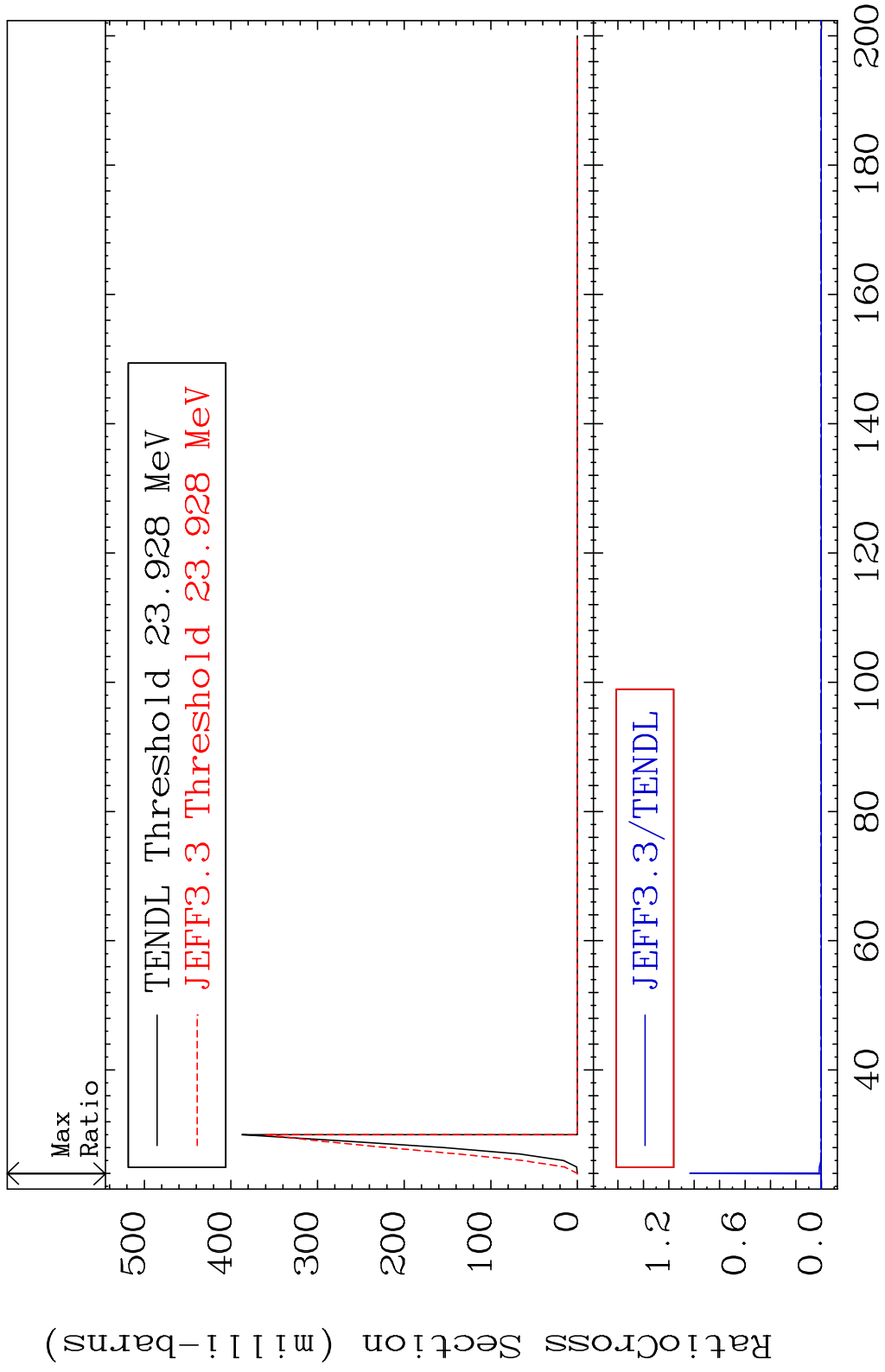
69 Incident Energy (eV) 71-Lu-173

MAT 7119 (n,3n):71-Lu-171g 71-Lu-173
 Radionuclide Production Cross Section 195.0 %



MAT 7119 (n, 3n): 71-Lu-171m1 71-Lu-173
 Radionuclide Production Cross Section to 255.7 %





MAT 7119 (n, 4n): 71-Lu-170m2 71-Lu-173
 Radionuclide Production Cross Section 1562. %

