

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

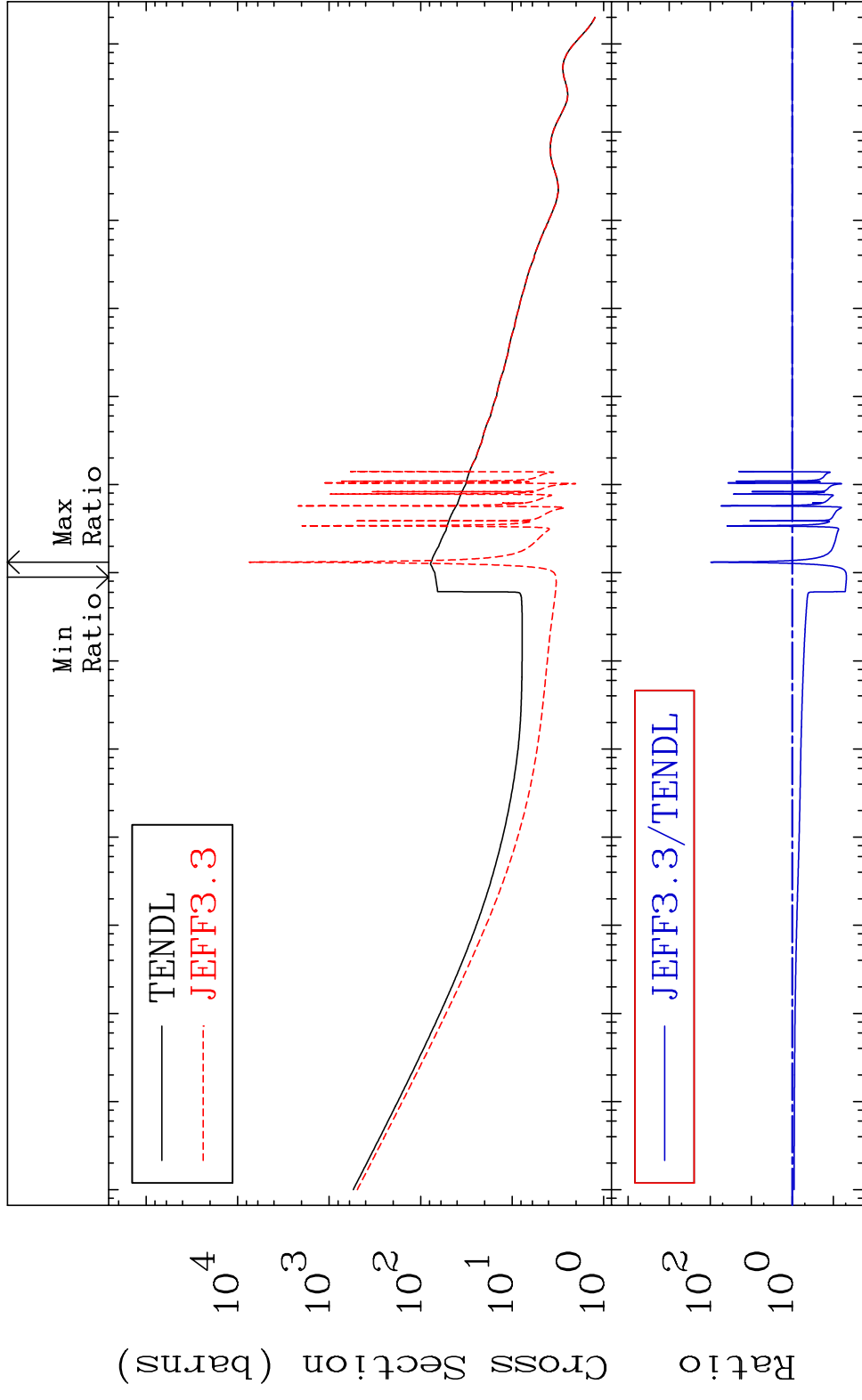
Press Mouse Button to Start

MAT 3119

31-Ga-67

Total

Cross Section -95.15 To 9604. %



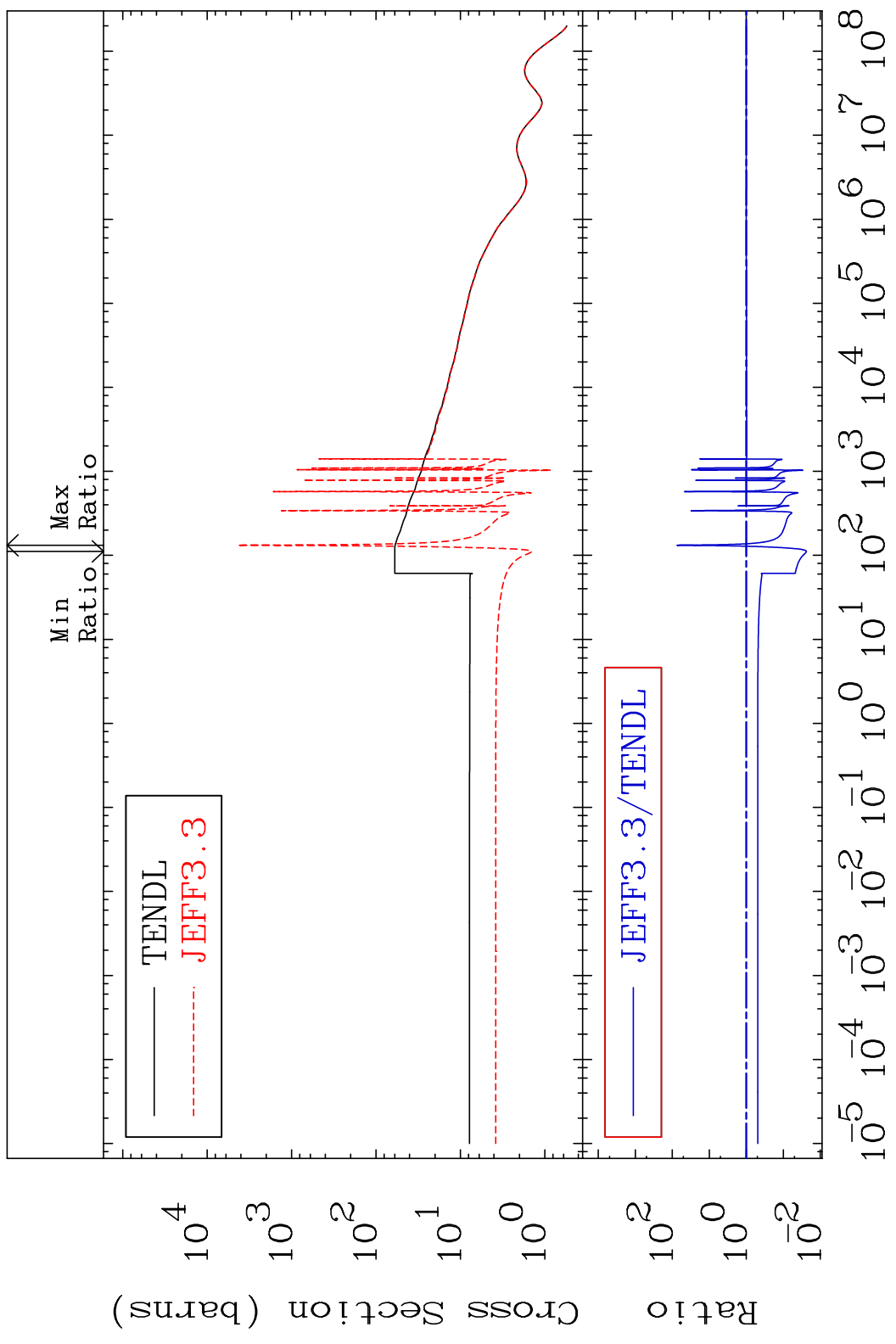
1

Incident Energy (eV)

31-Ga-67

MAT 3119

Elastic Cross Section -97.63 To 7275. %
31-Ga-67

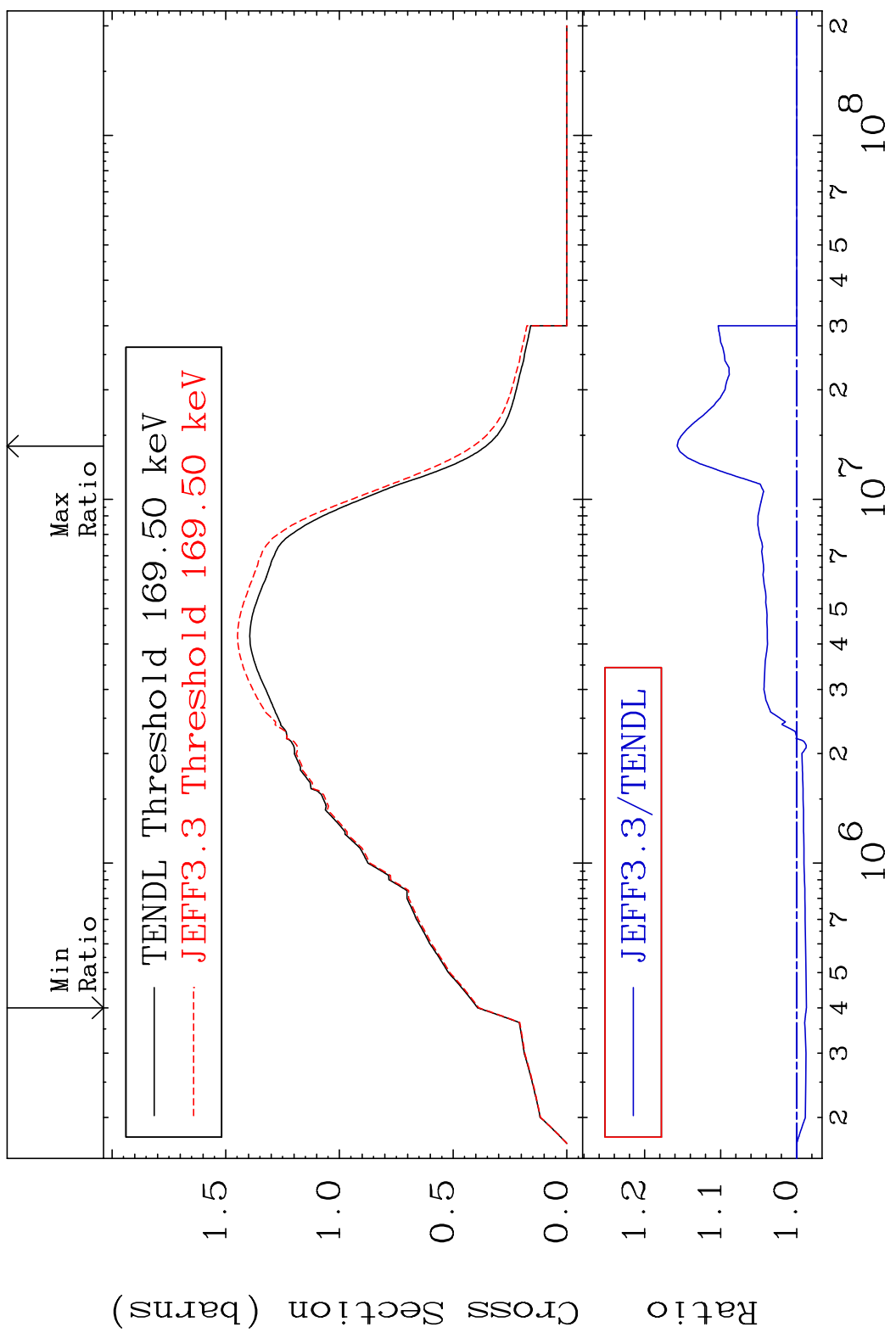


MAT 3119

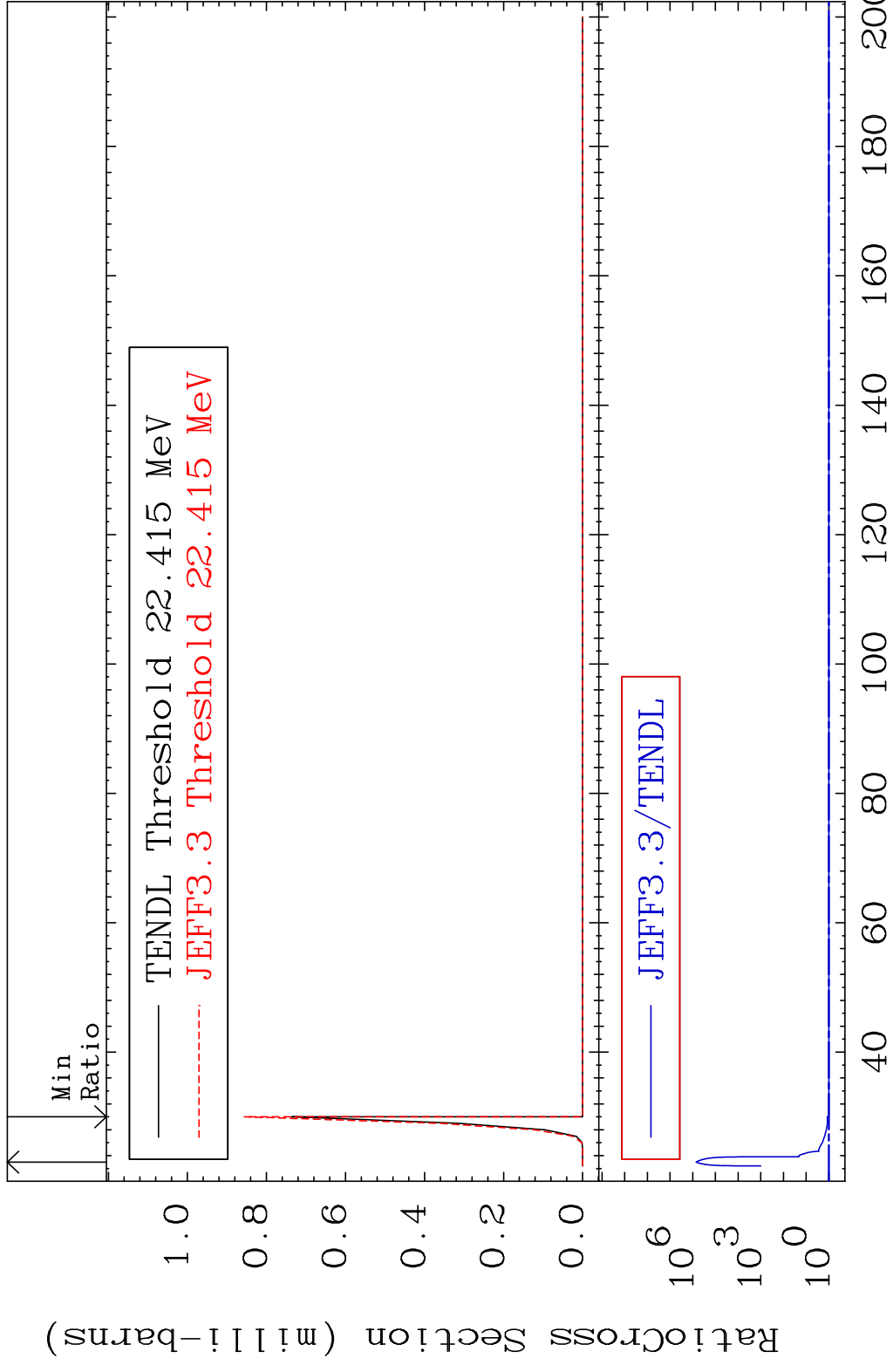
Inelastic

31-Ga-67

Cross Section -1.285 To 15.72 %



MAT 3119 (n,2n) d 31-Ga-67
 Cross Section 0.000 To 9999. %

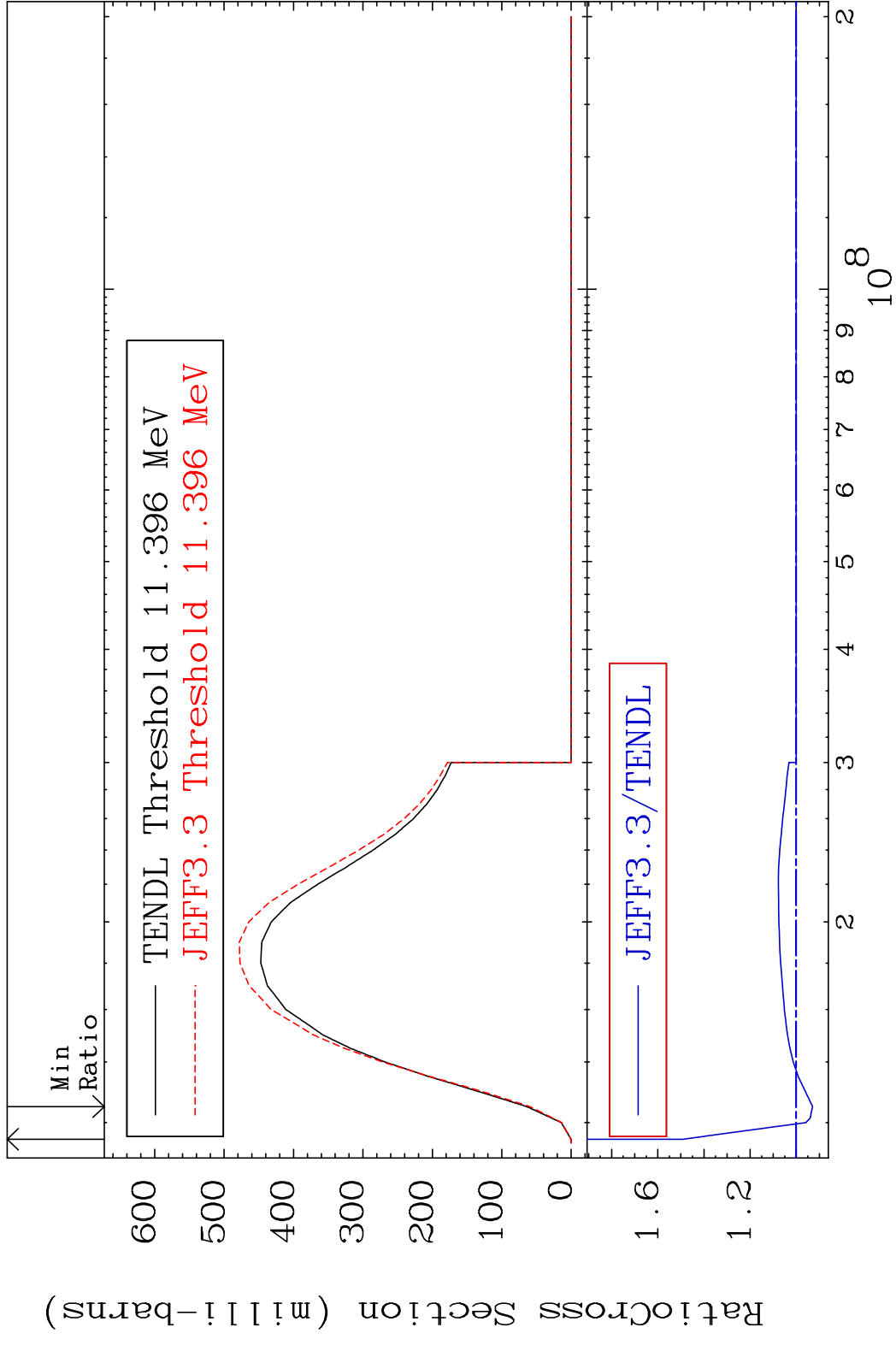


MAT 3119

(n,2n)

31-Ga-67

Cross Section -7.063 To 49.35 %

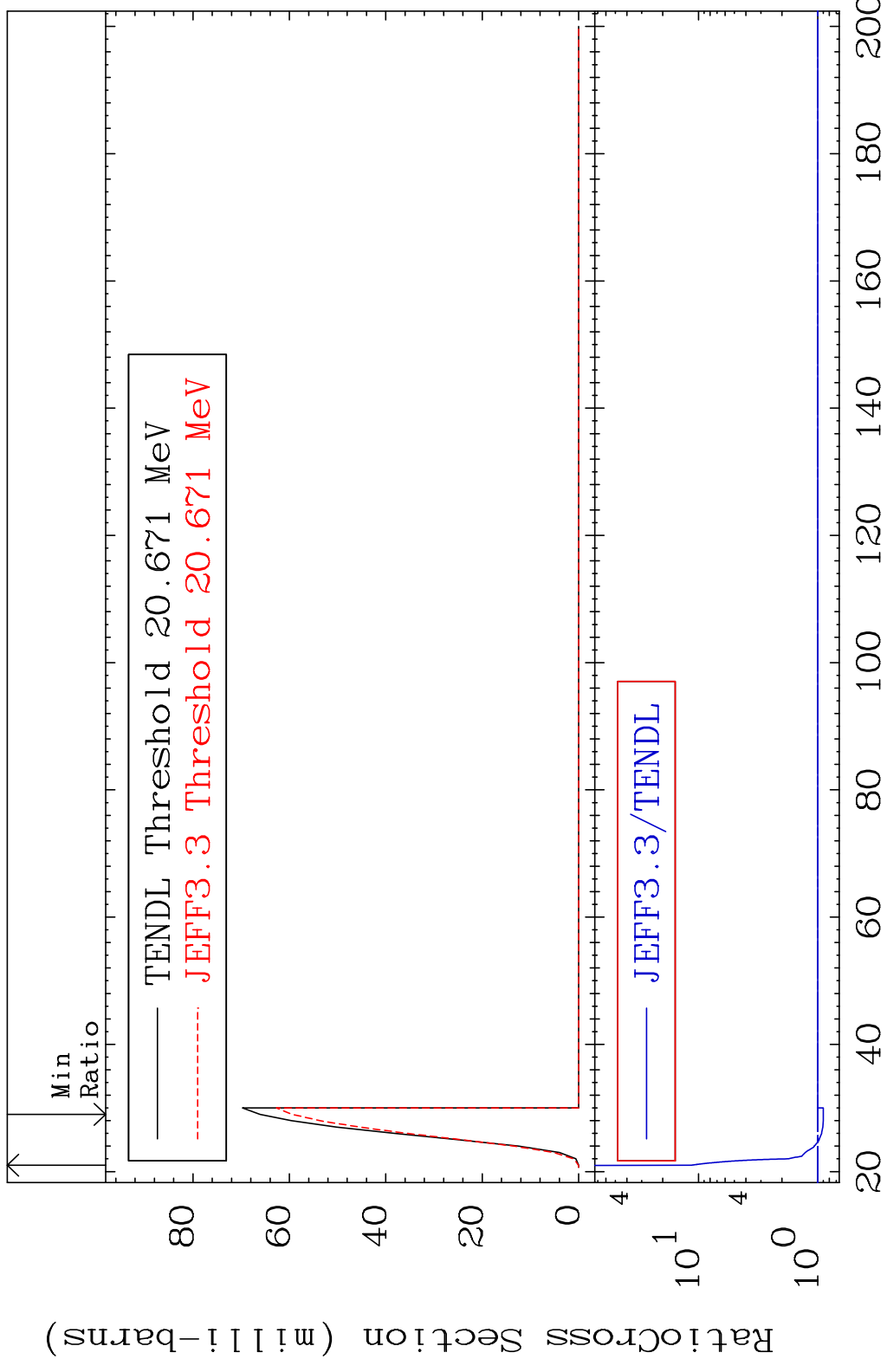


MAT 3119

(n,3n)

31-Ga-67

Cross Section -10.10 To 1050. %

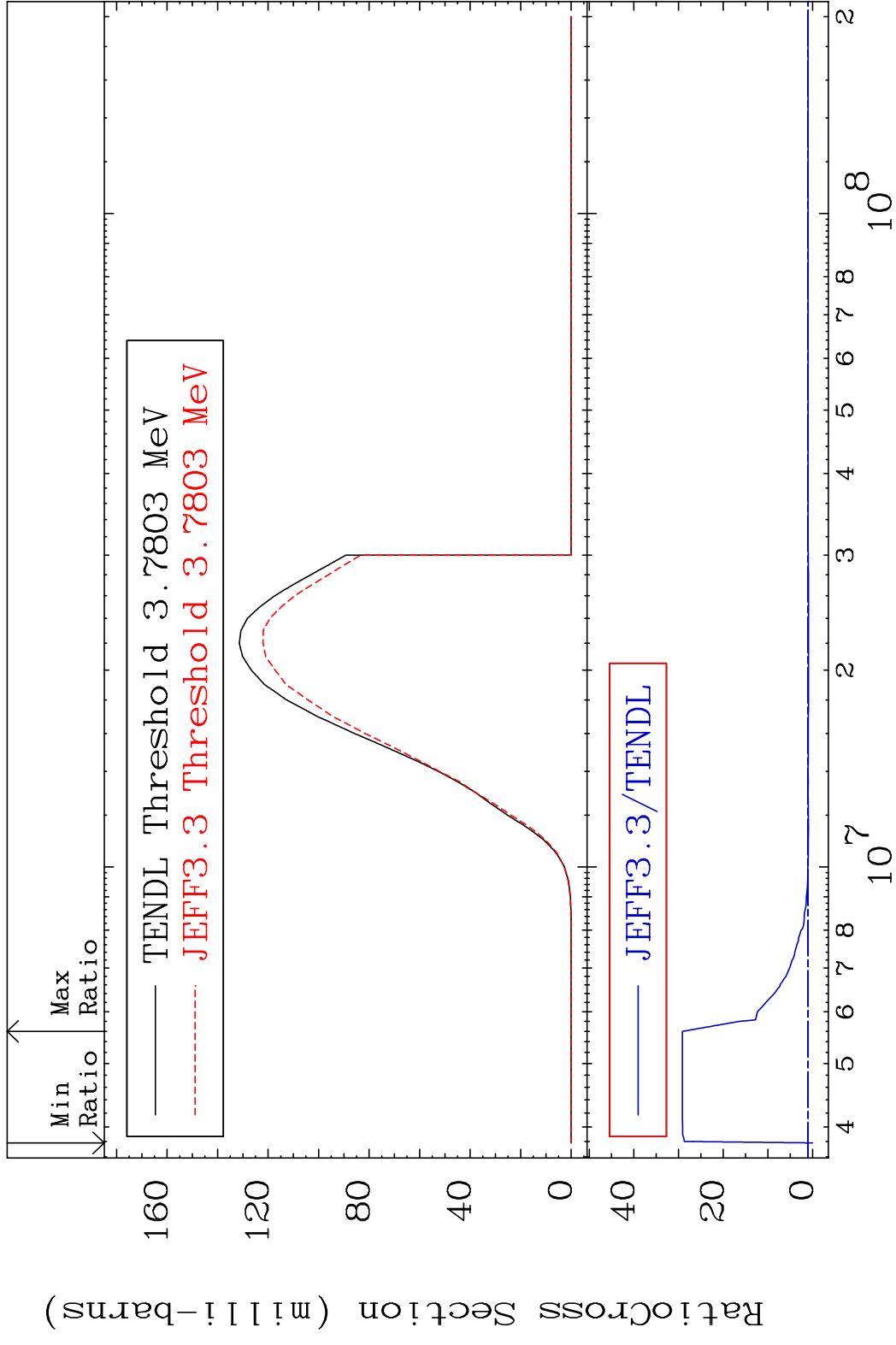


MAT 3119

(n, n') α

31-Ga-67

Cross Section -100.0 To 2815. %



7

Incident Energy (eV)

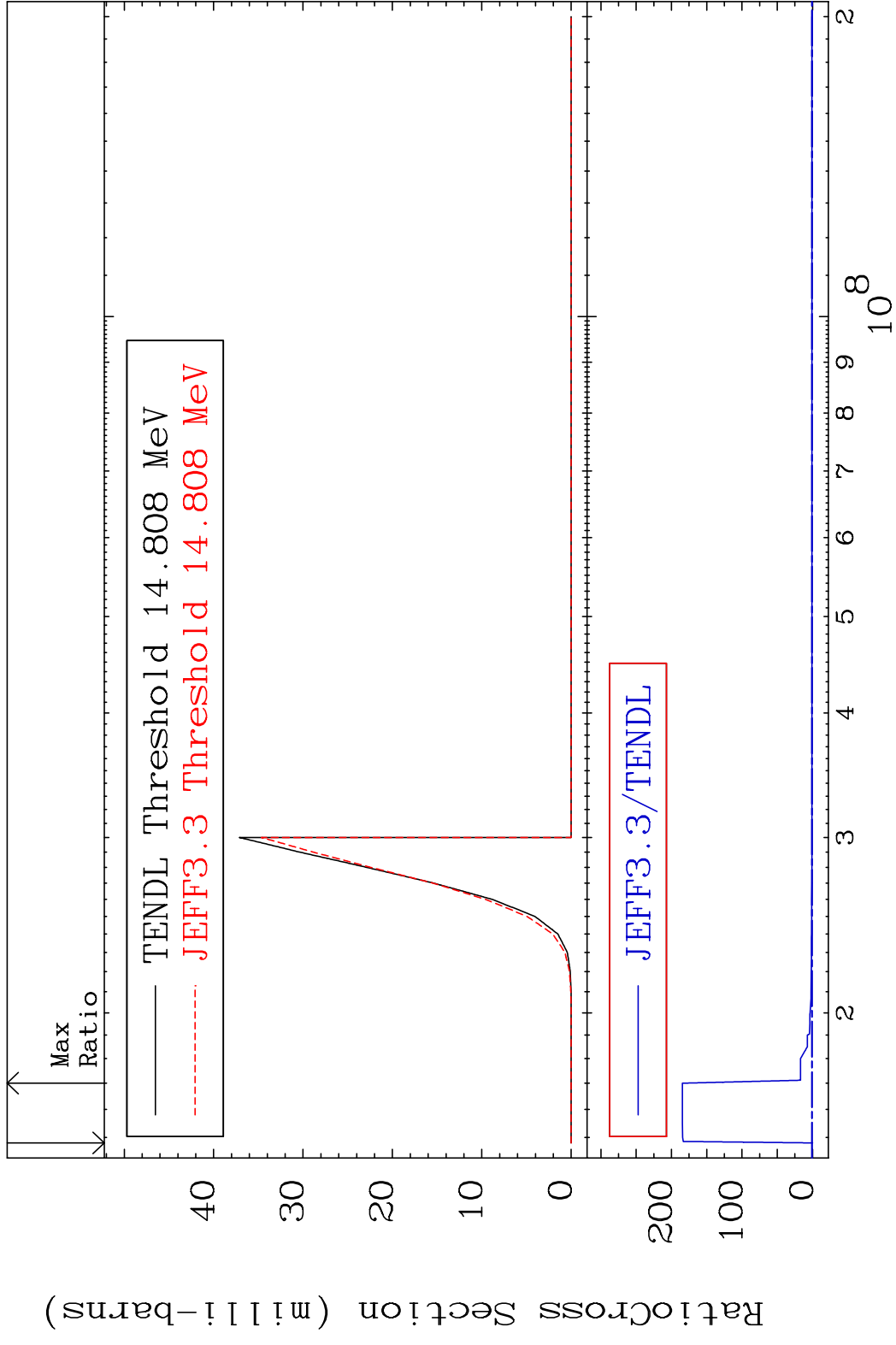
31-Ga-67

MAT 3119

(n,2n) α

31-Ga-67

Cross Section -100.0 To 9999. %

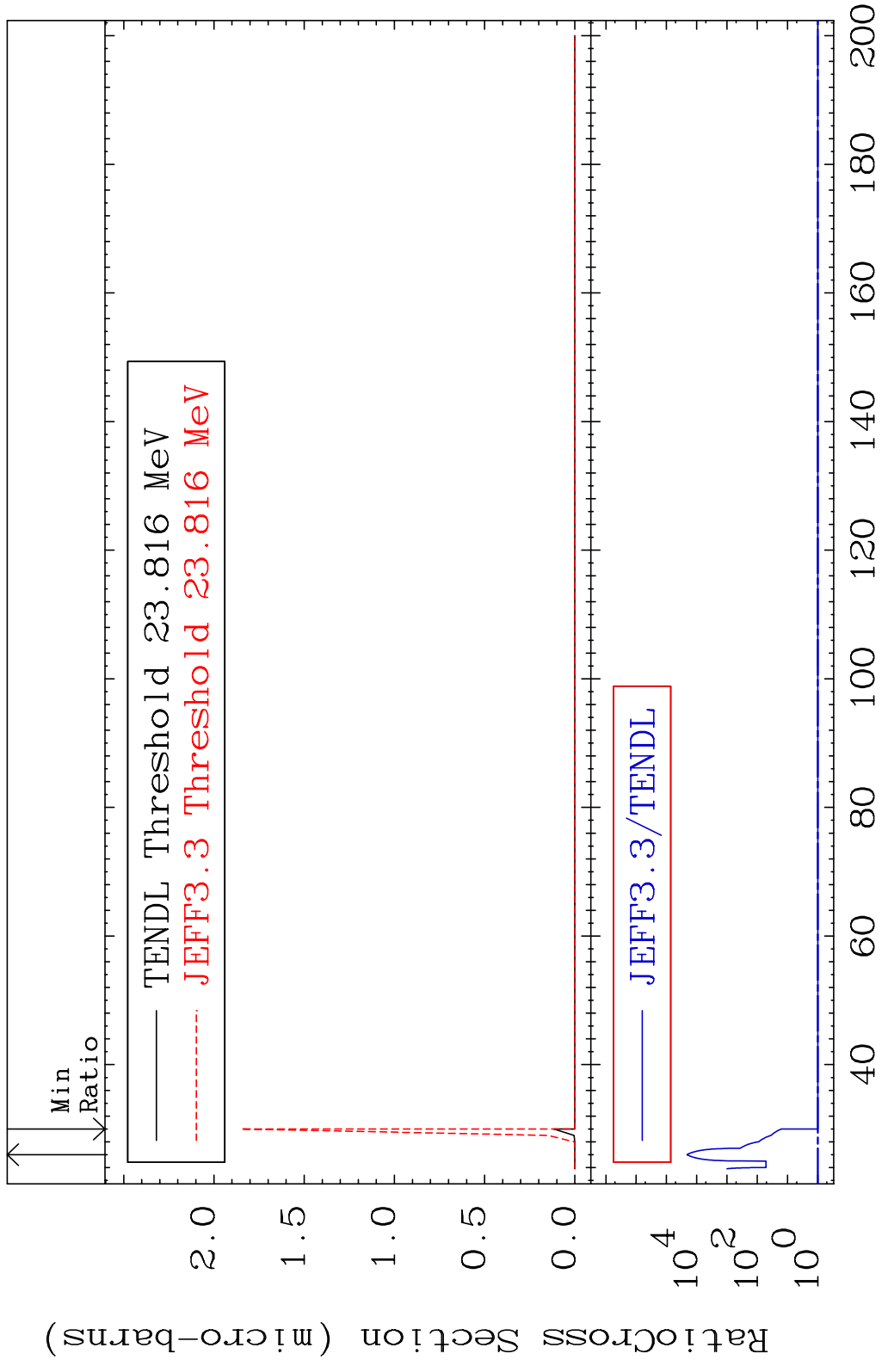


8

Incident Energy (eV)

31-Ga-67

MAT 3119 (n,3n) α 31-Ga-67
 Cross Section 0.000 To 9999. %

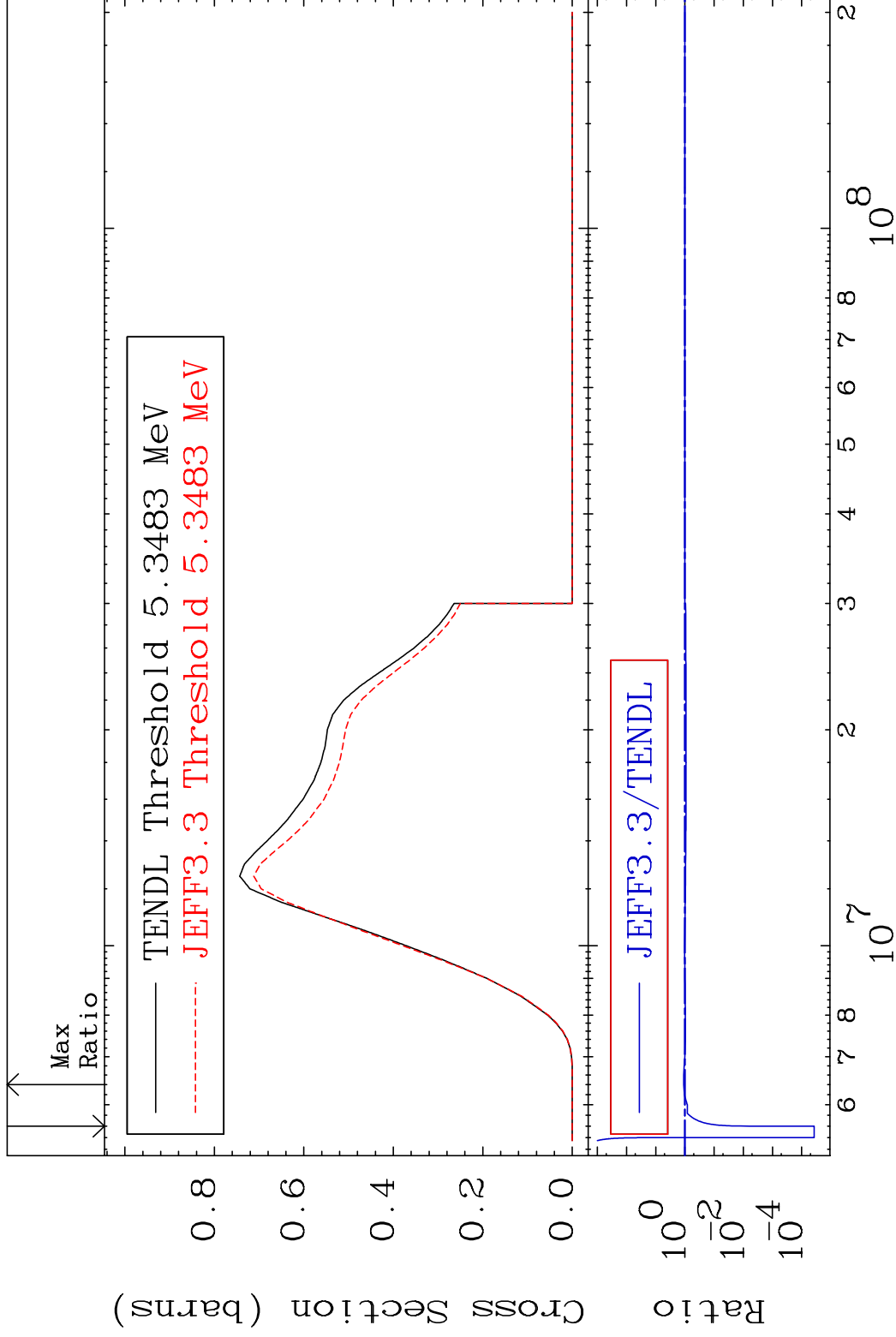


MAT 3119

(n, n') p

31-Ga-67

Cross Section -100.0 To 10.61 %



10

Incident Energy (eV)

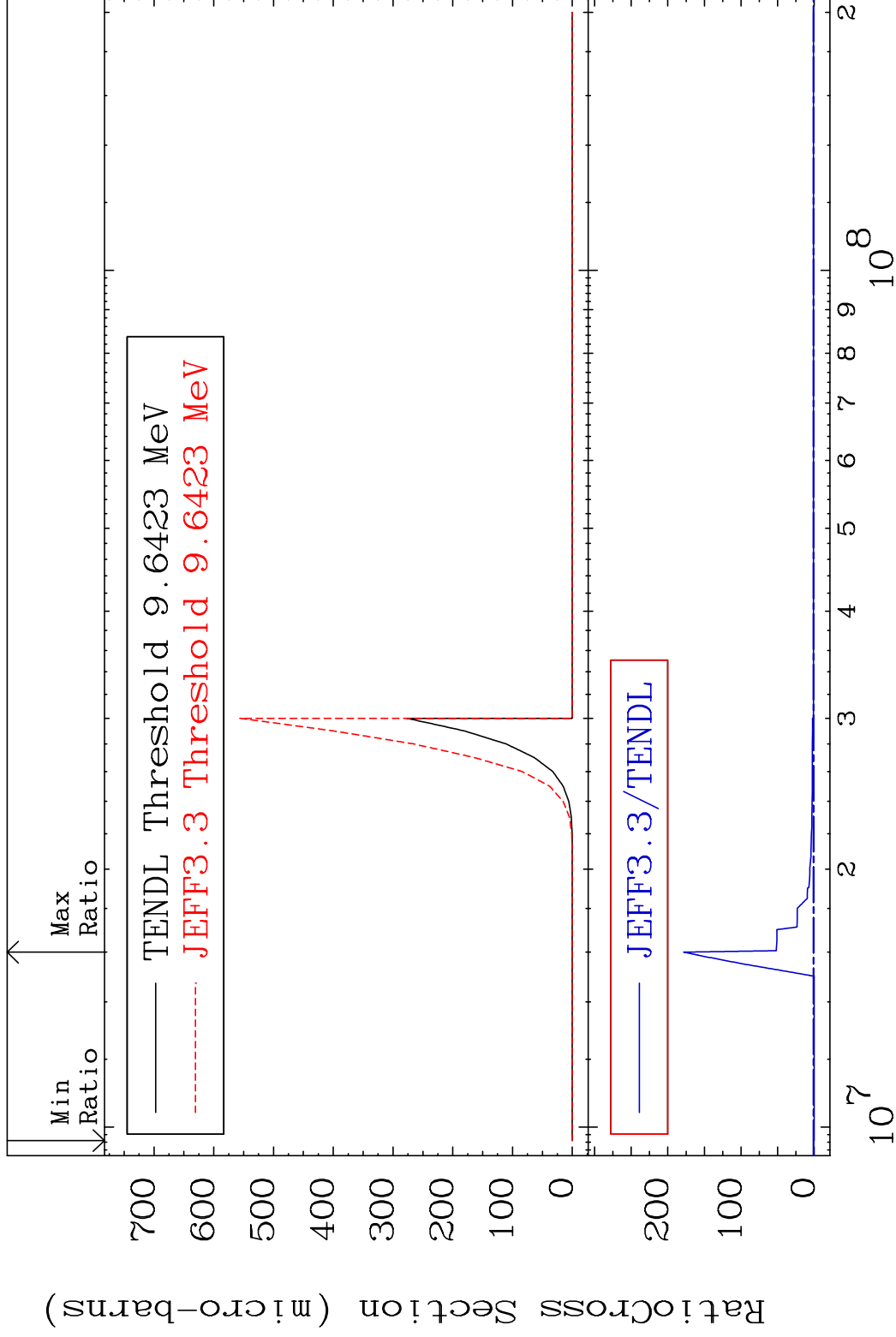
31-Ga-67

MAT 3119

(n, n') 2 α

31-Ga-67

Cross Section -100.0 To 9999. %

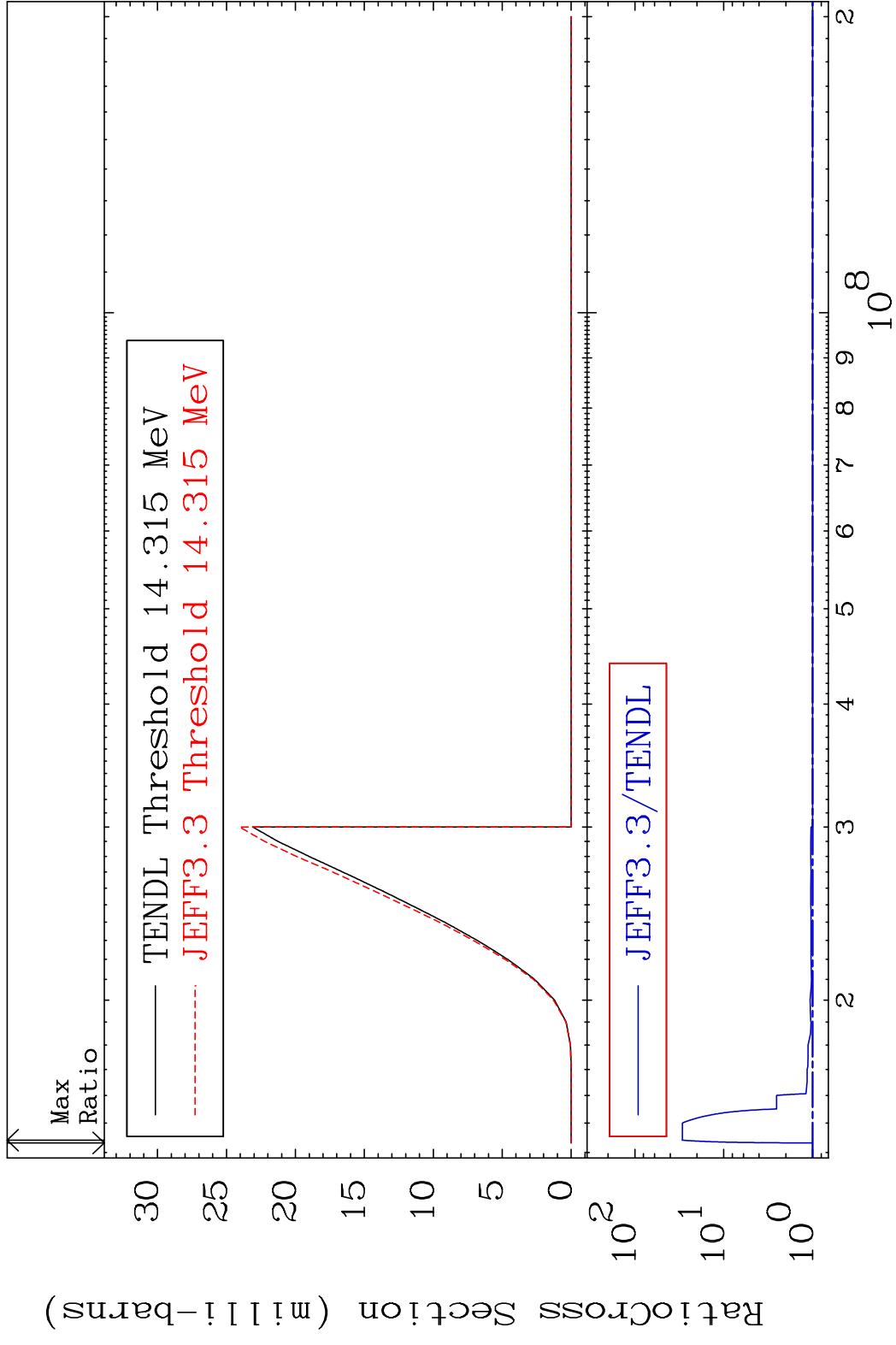


11

Incident Energy (eV)

31-Ga-67

MAT 3119 (n, n') d 31-Ga-67
 Cross Section 0.000 To 2822. %

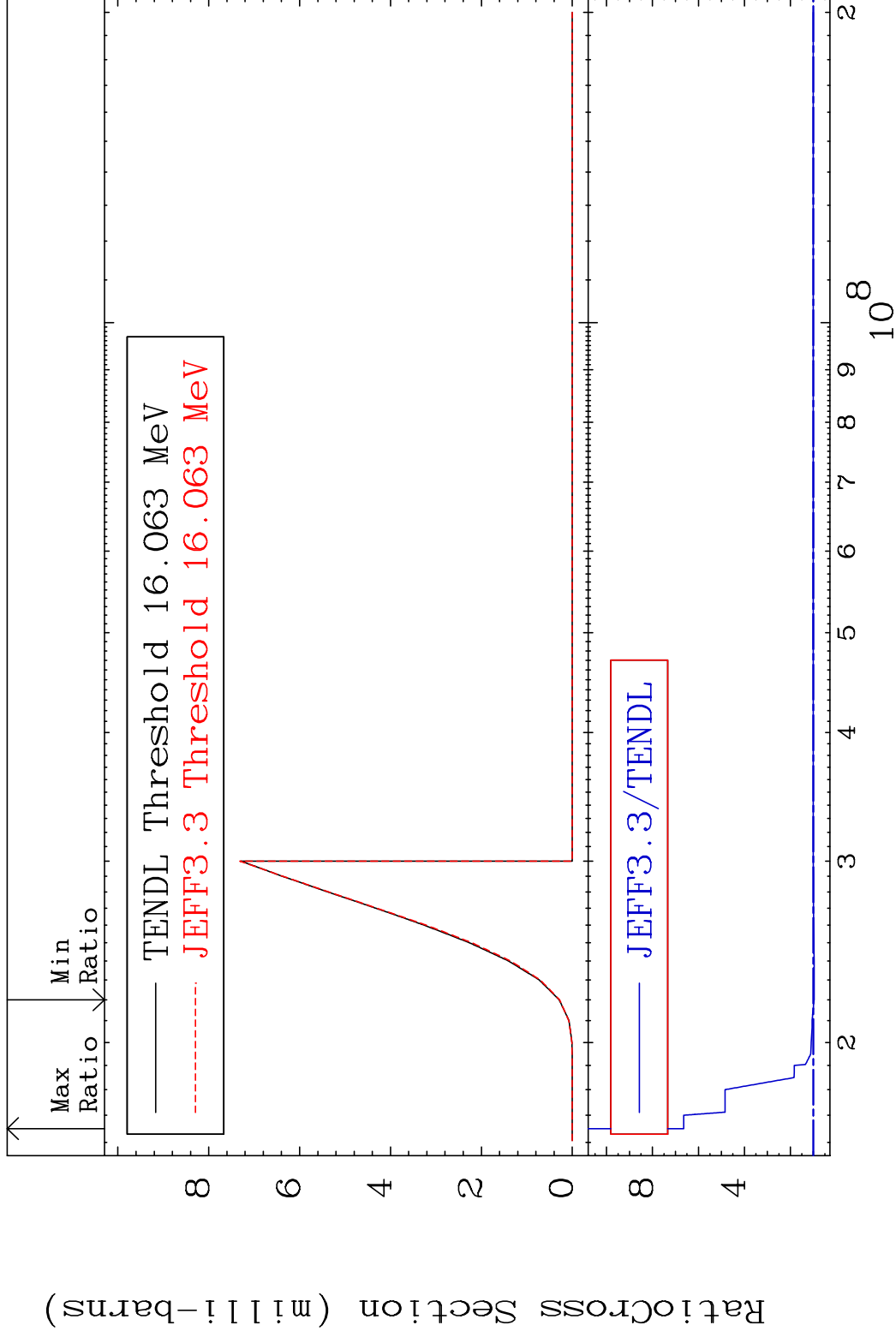


MAT 3119

(n, n') t

31-Ga-67

Cross Section -3.263 To 564.4 %

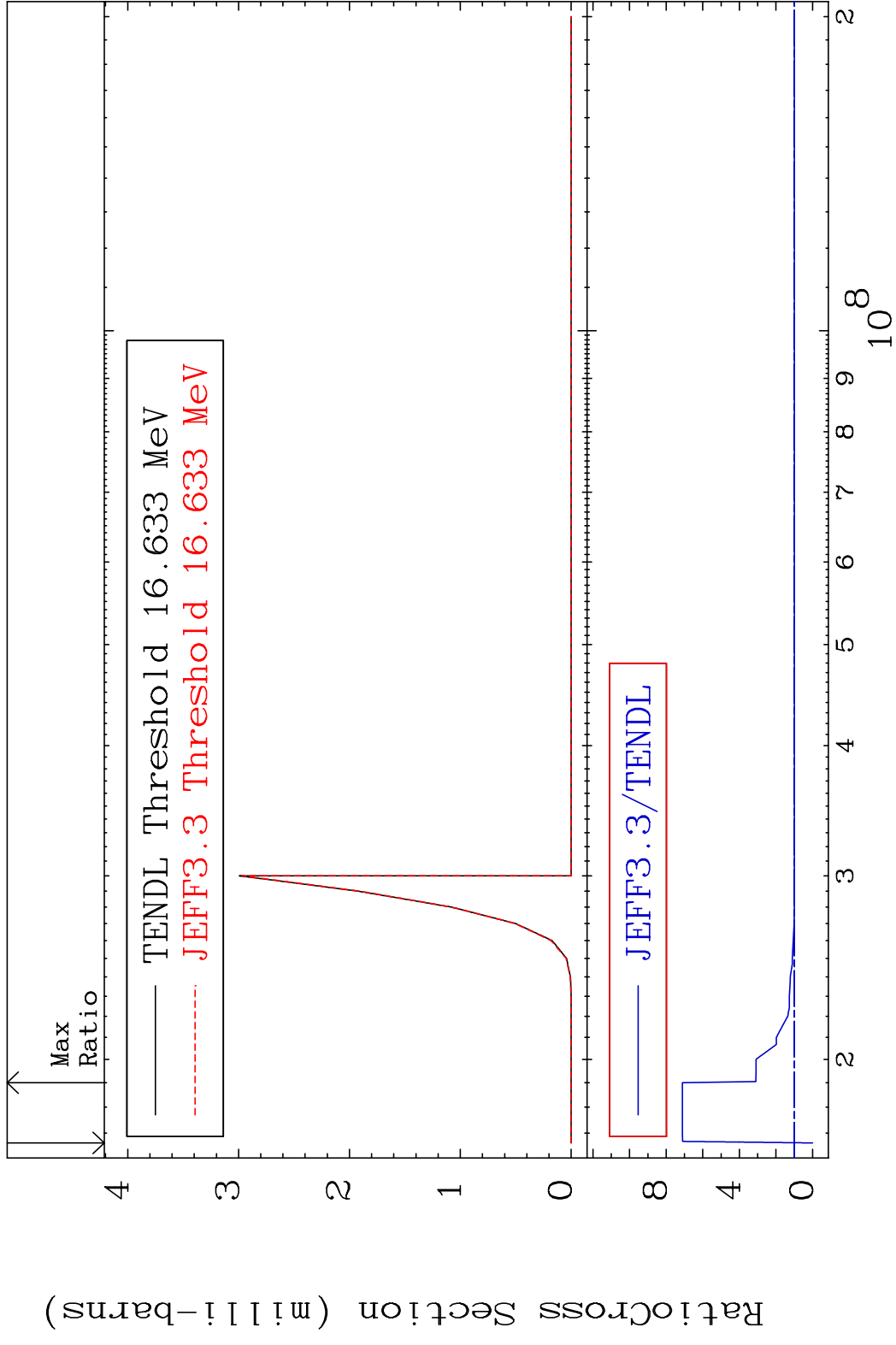


13

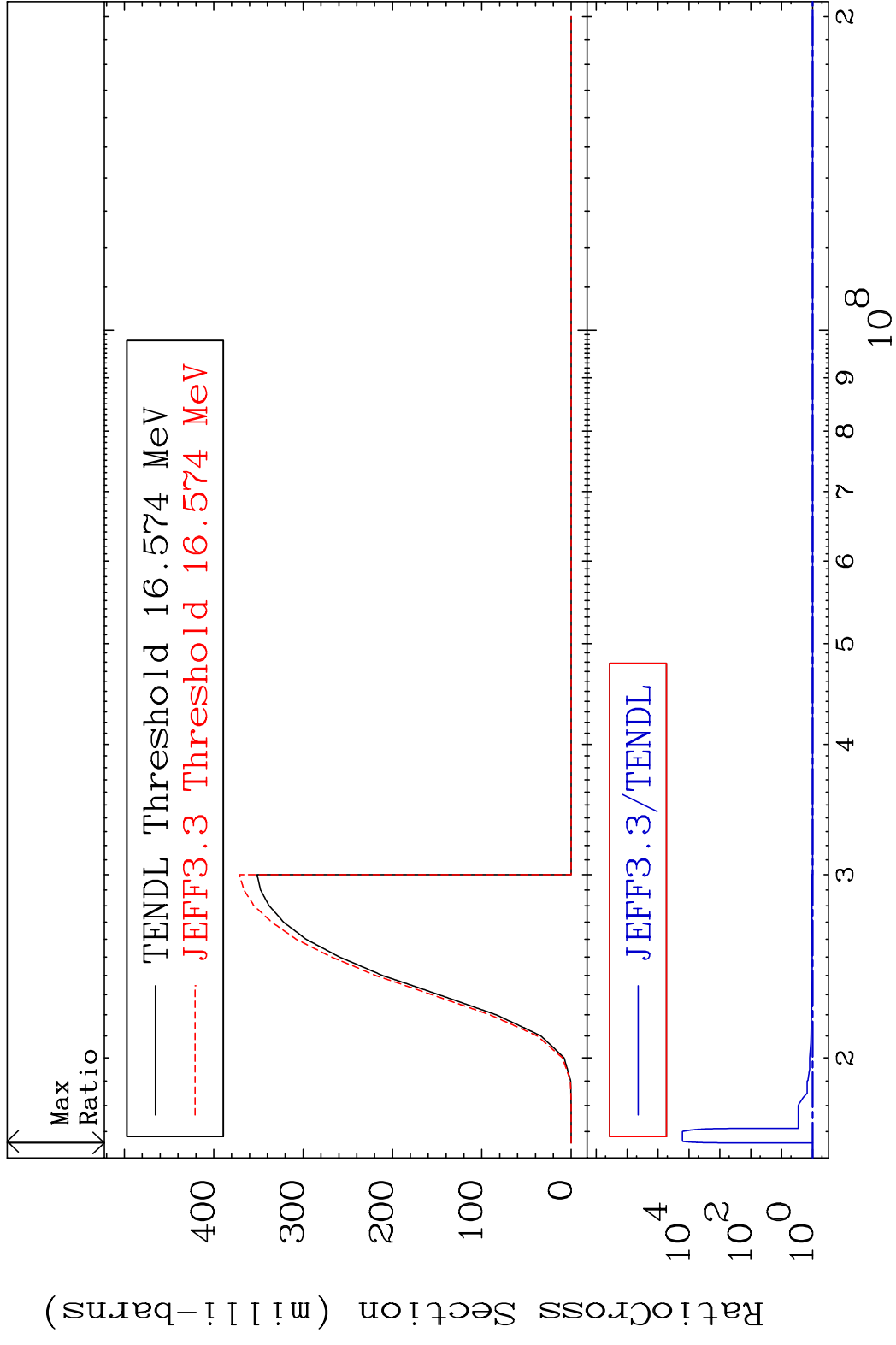
Incident Energy (eV)

31-Ga-67

MAT 3119 (n,n') He-3 31-Ga-67
 Cross Section -100.0 To 611.6 %



MAT 3119 (n,2n) p 31-Ga-67
 Cross Section 0.000 To 9999. %

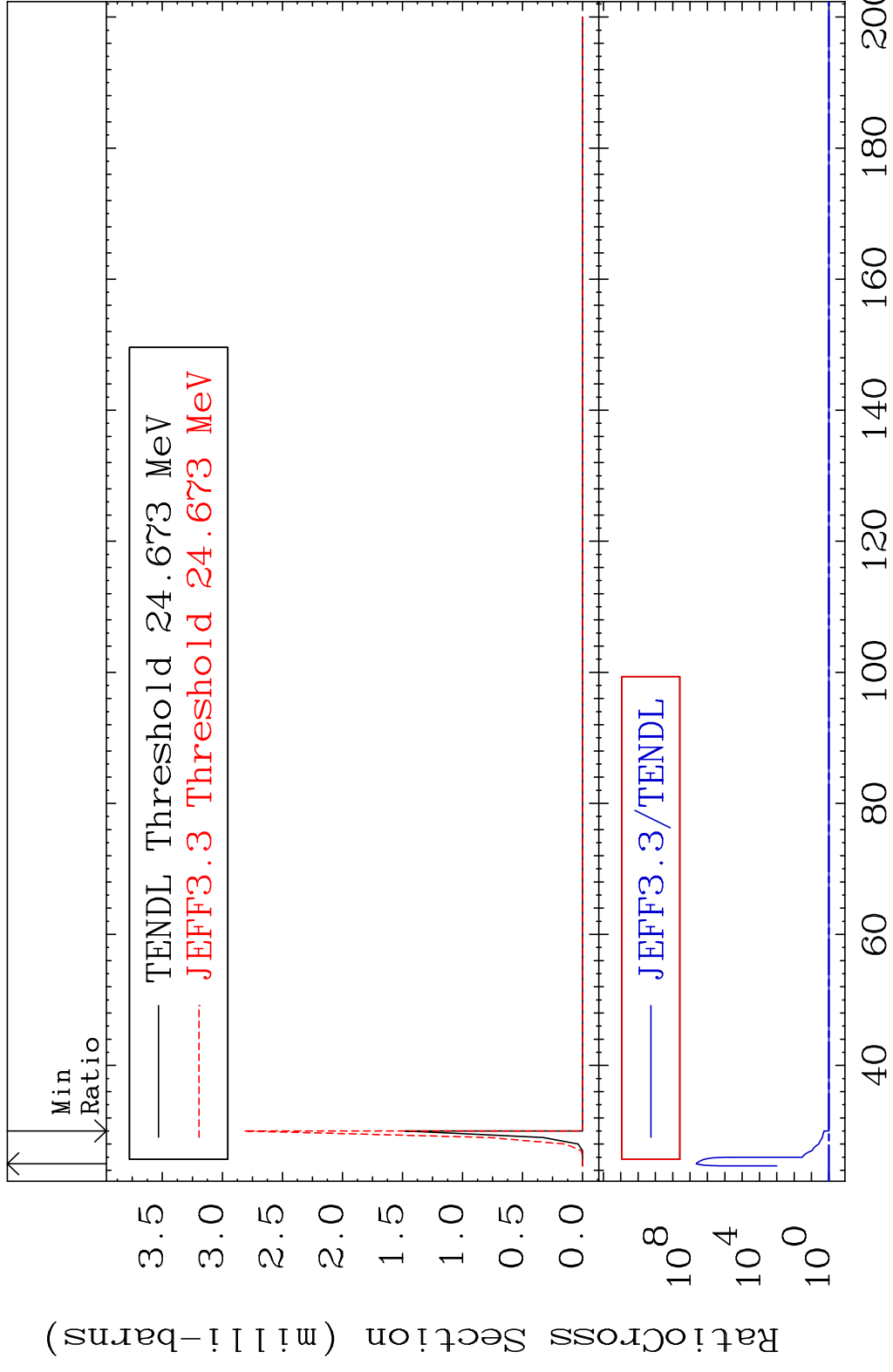


MAT 3119

(n,3n) p

31-Ga-67

Cross Section 0.000 To 9999. %

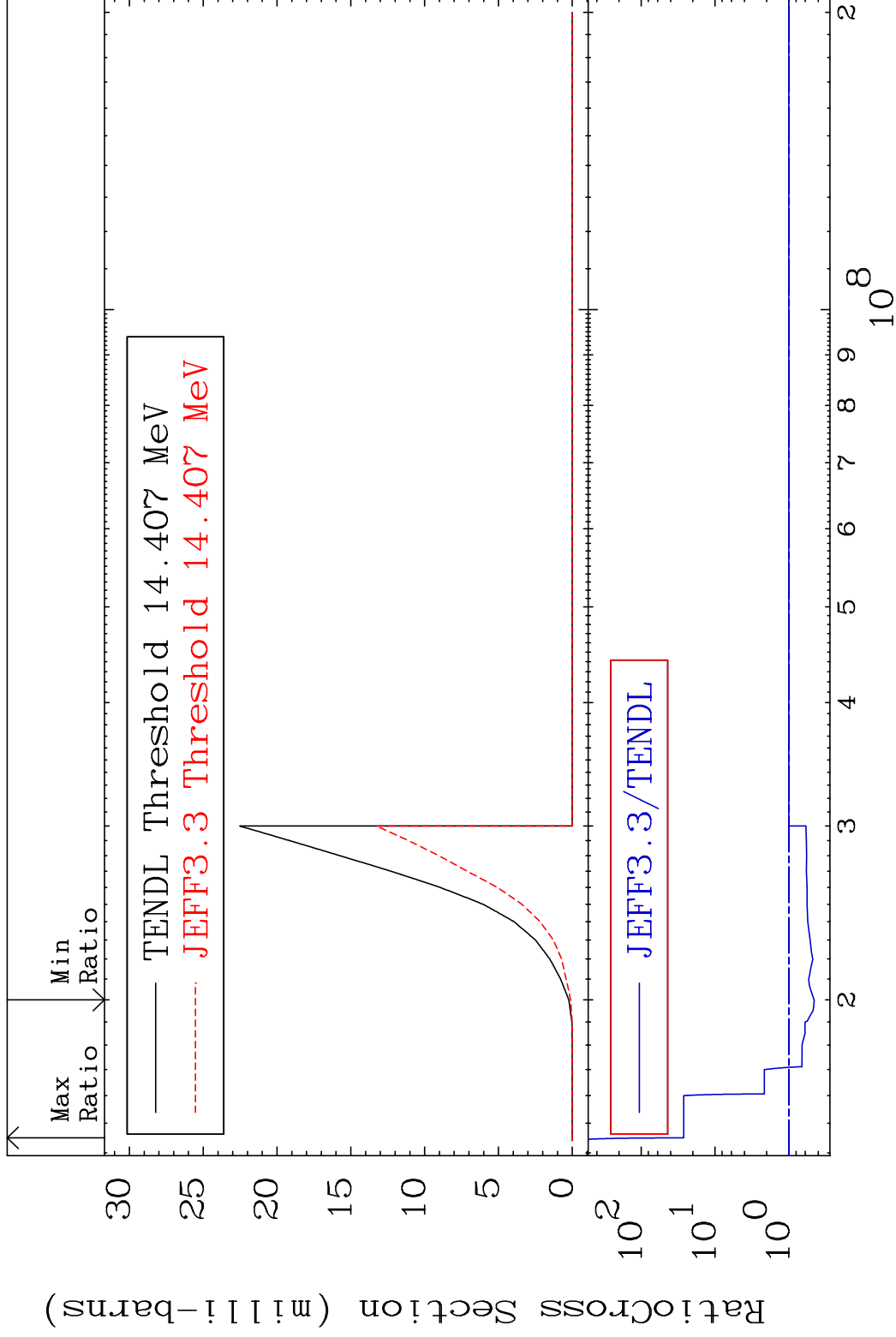


MAT 3119

(n,2n) p

31-Ga-67

Cross Section -54.51 To 2560. %



17

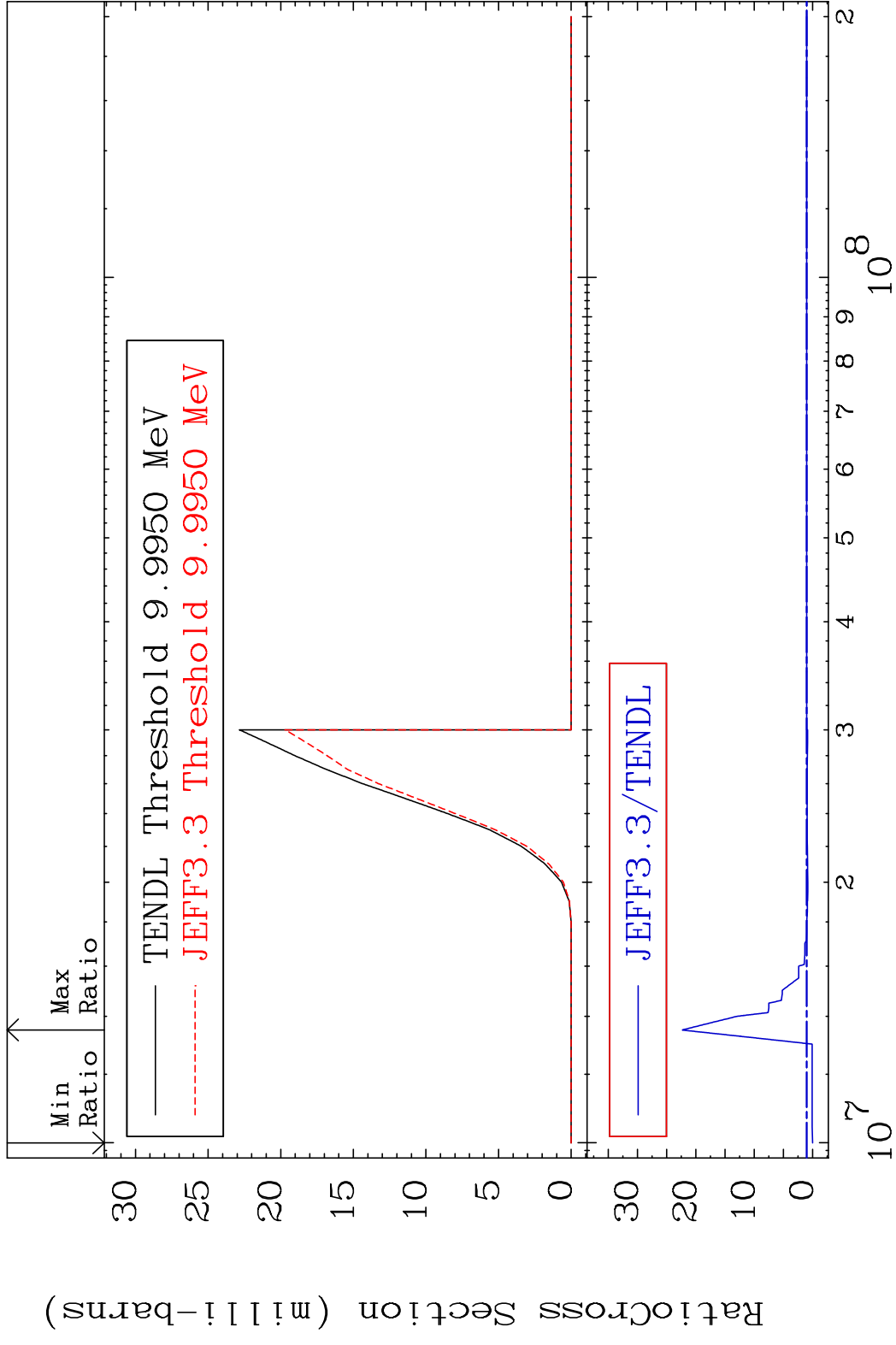
Incident Energy (eV)

31-Ga-67

MAT 3119

(n,n') p α 31-Ga-67

Cross Section -100.0 To 2131. %

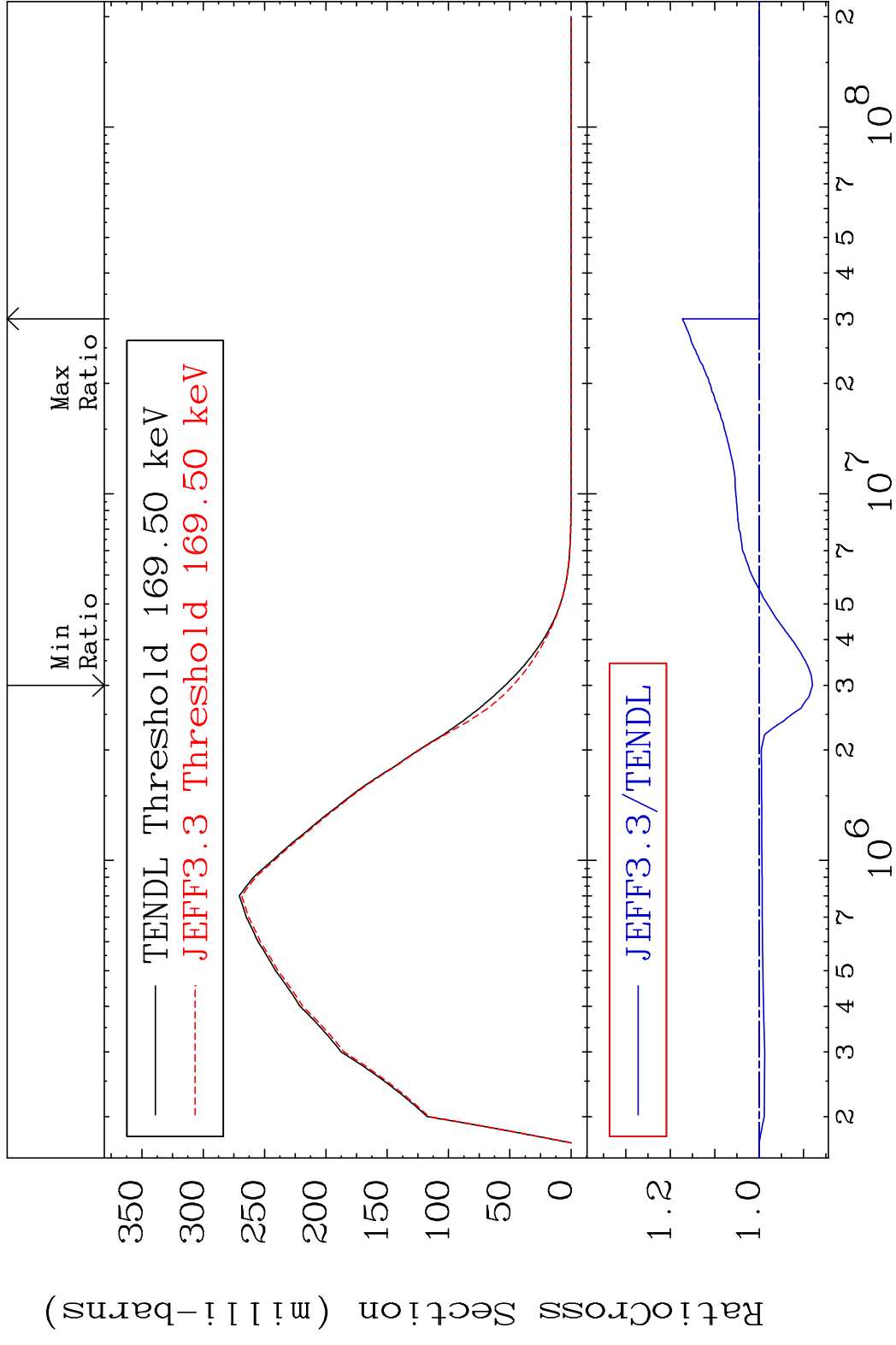


18

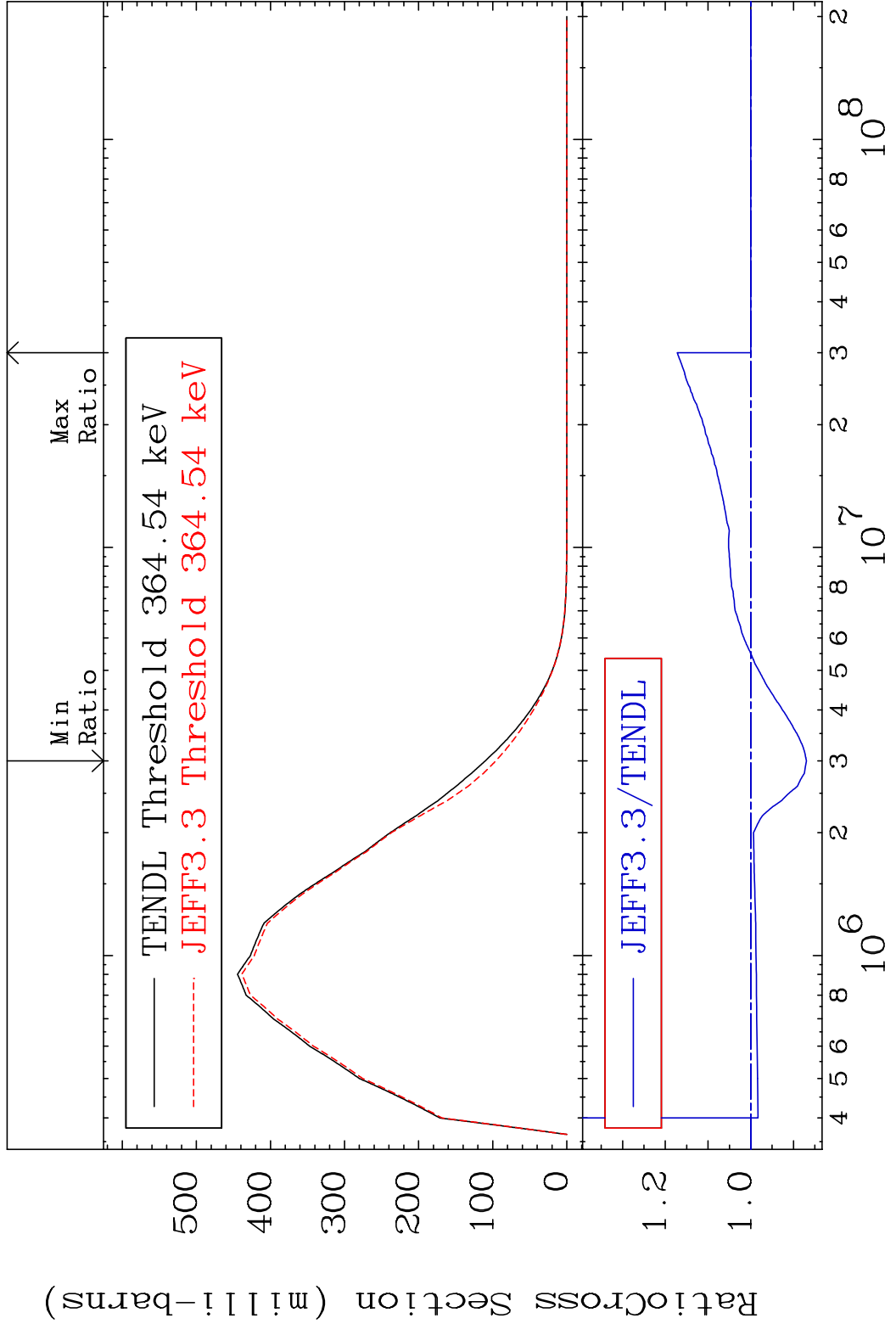
Incident Energy (eV)

31-Ga-67

MAT 3119 MT= 51 (n,n') Level 31-Ga-67
 Cross Section -12.02 To 17.28 %

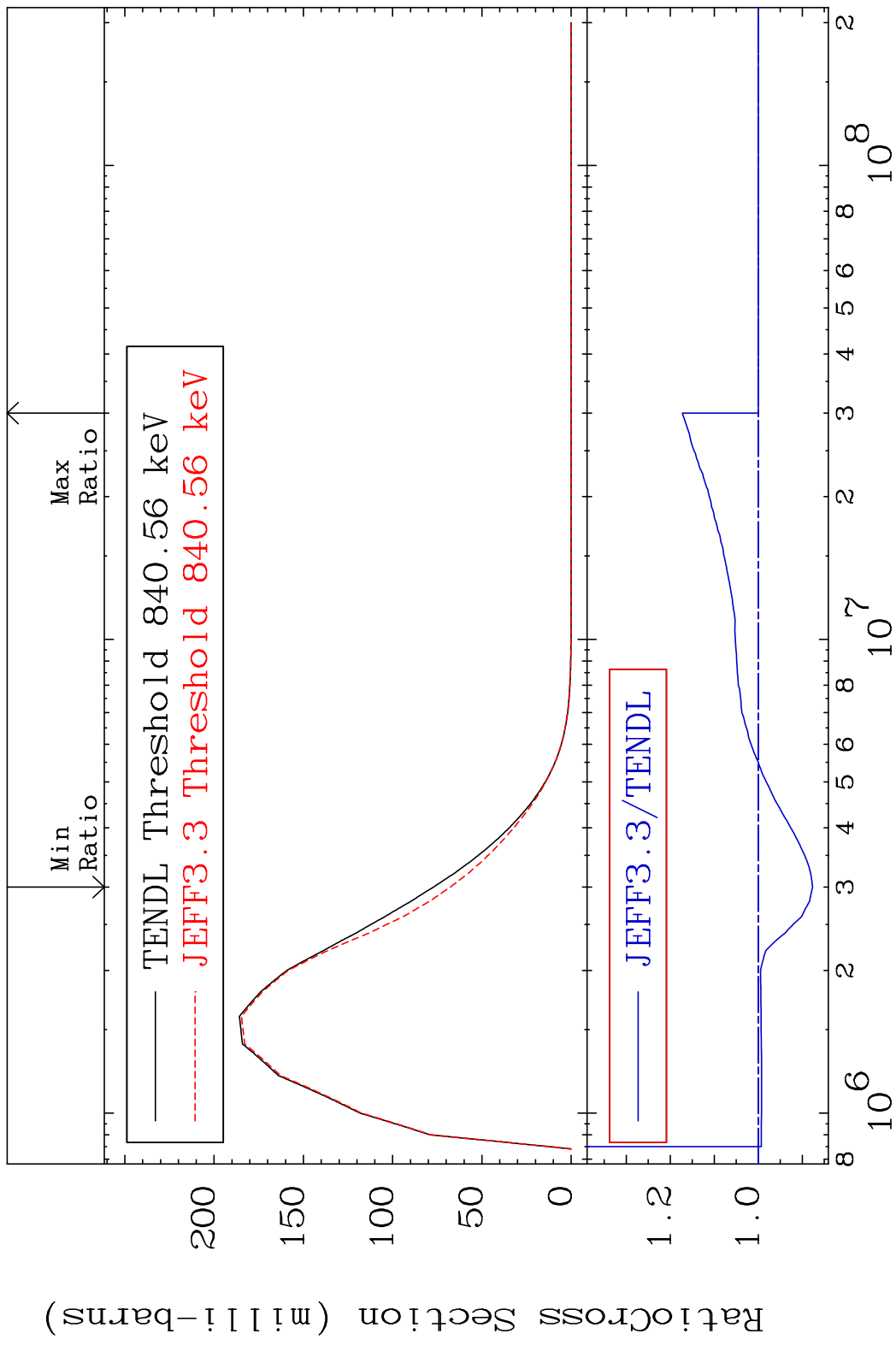


MAT 3119 MT= 52 (n,n') Level 31-Ga-67
 Cross Section -13.03 To 17.22 %

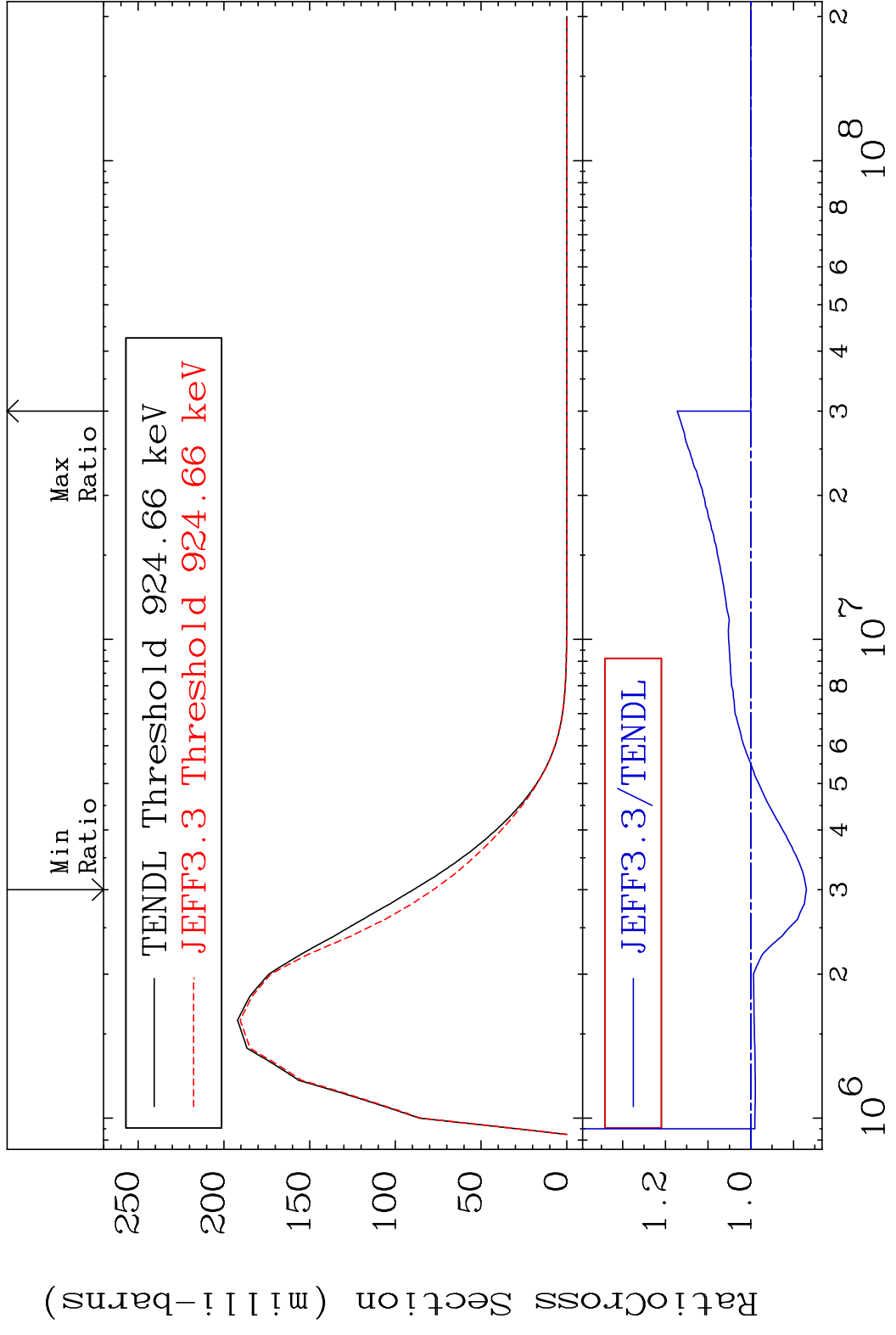


20 Incident Energy (eV) 31-Ga-67

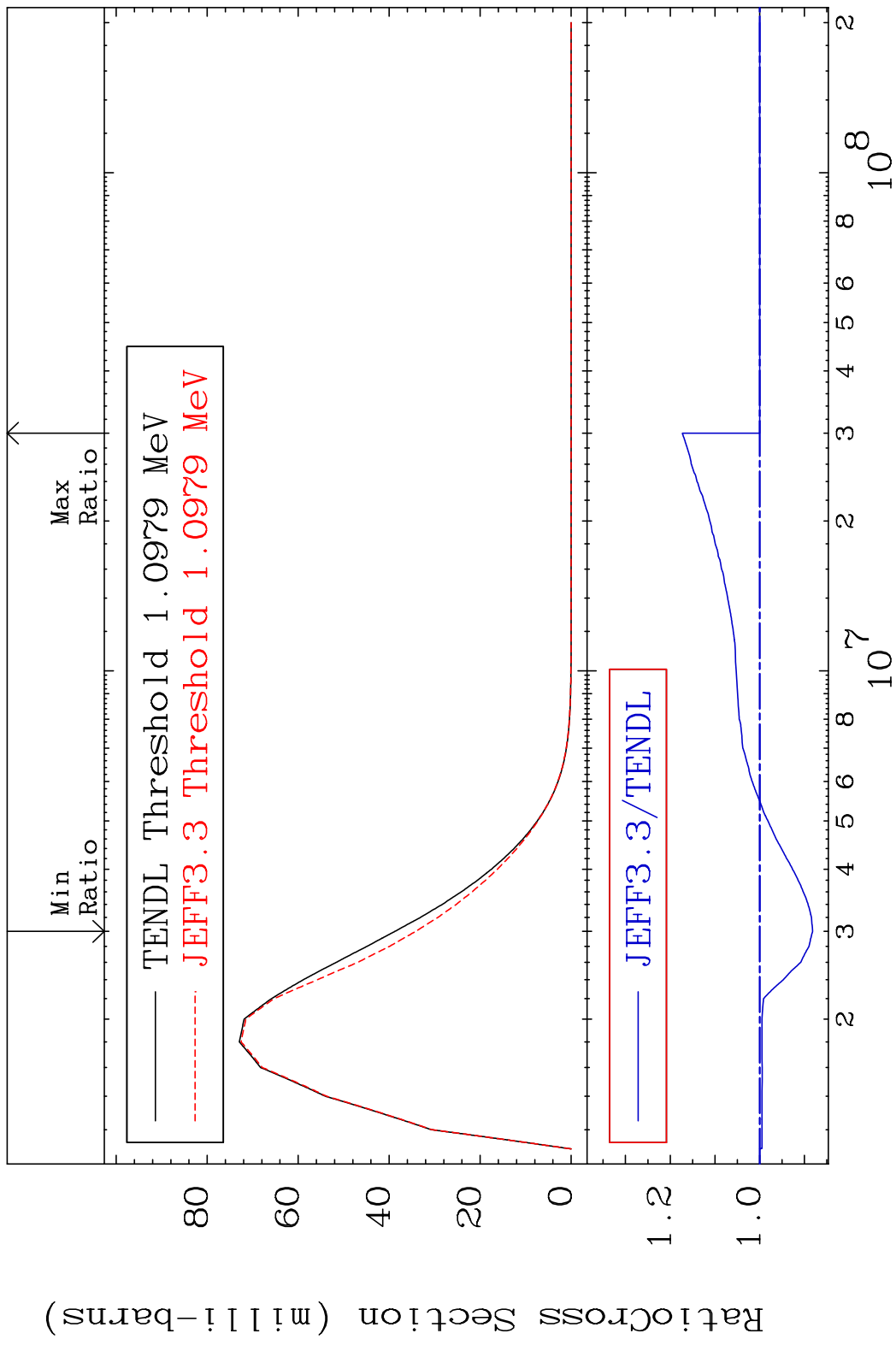
MAT 3119 MT= 53 (n, n') Level 31-Ga-67
 Cross Section -12.33 To 17.26 %



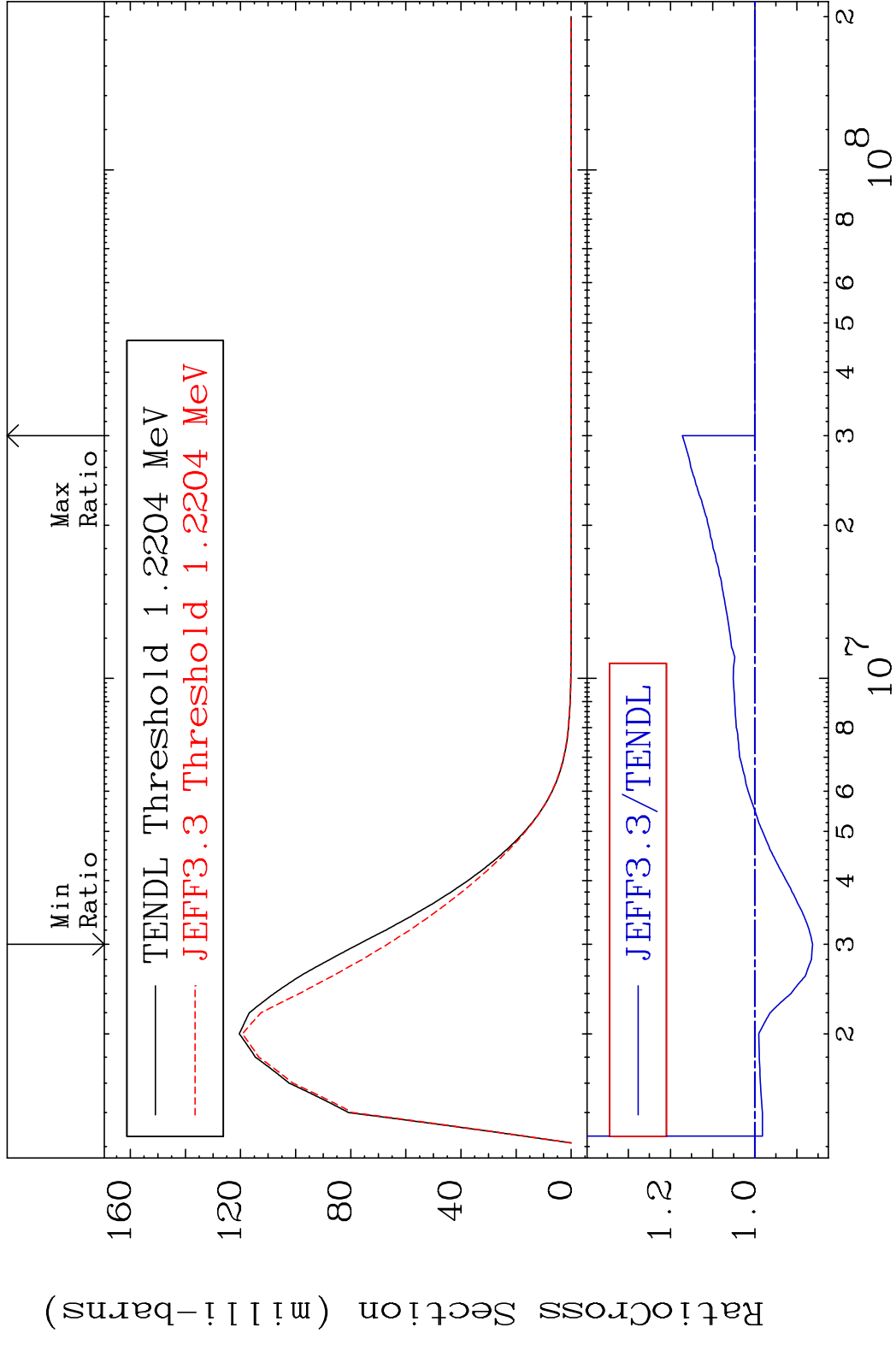
MAT 3119 MT= 54 (n, n') Level 31-Ga-67
 Cross Section -13.04 To 17.23 %



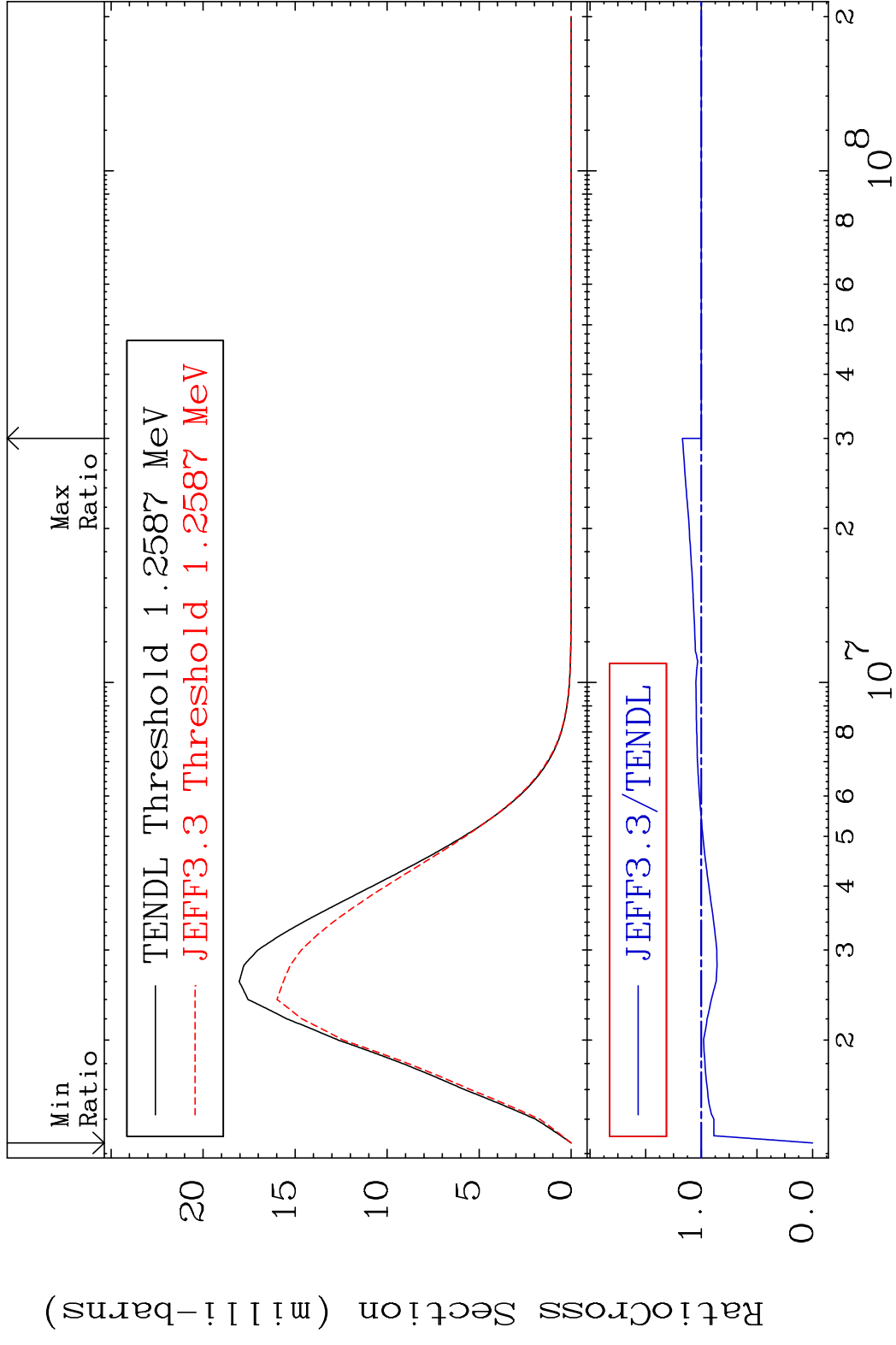
MAT 3119 MT= 55 (n,n') Level 31-Ga-67
 Cross Section -11.82 To 17.28 %



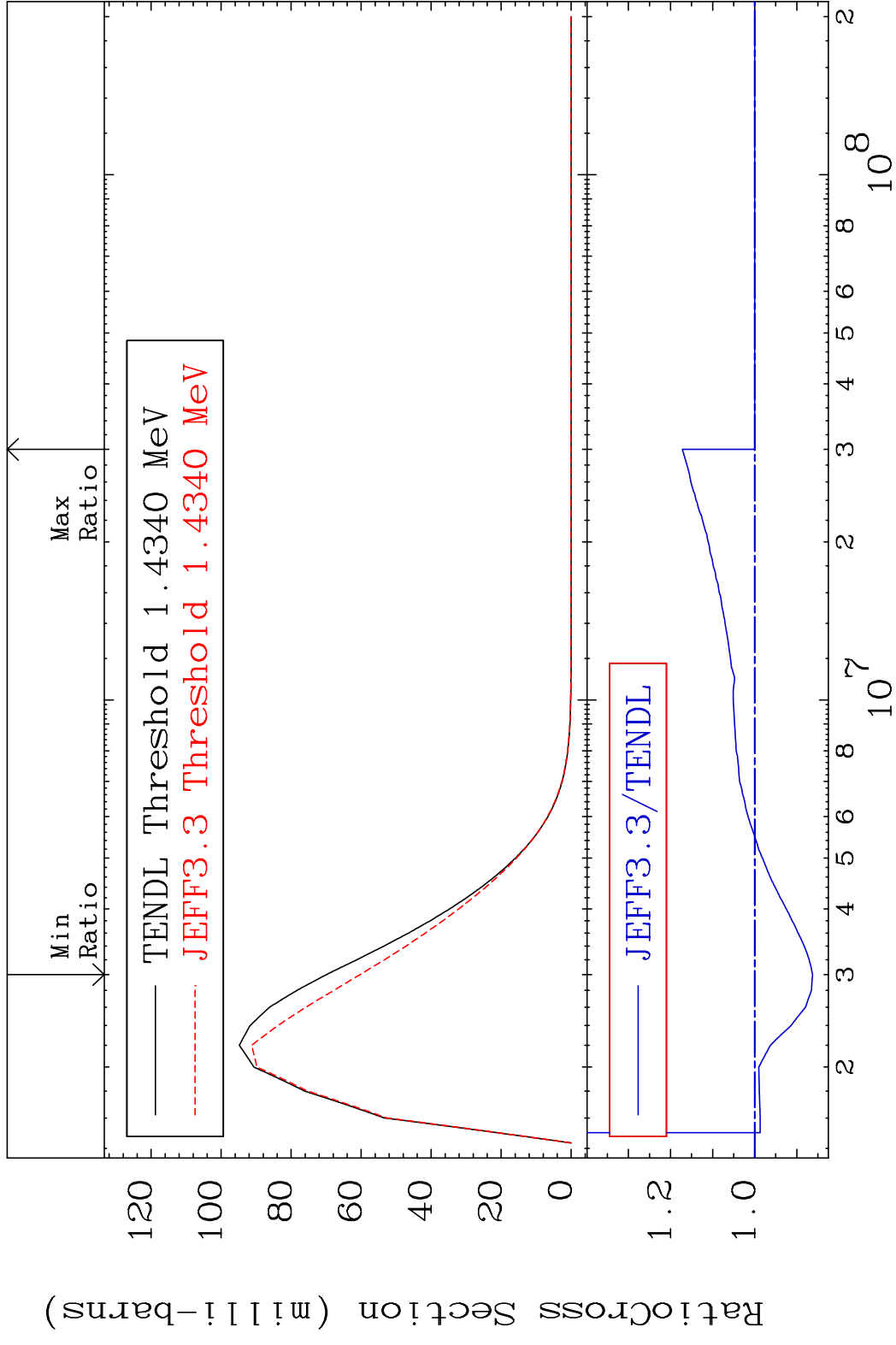
MAT 3119 MT= 56 (n,n') Level 31-Ga-67
 Cross Section -13.70 To 17.19 %



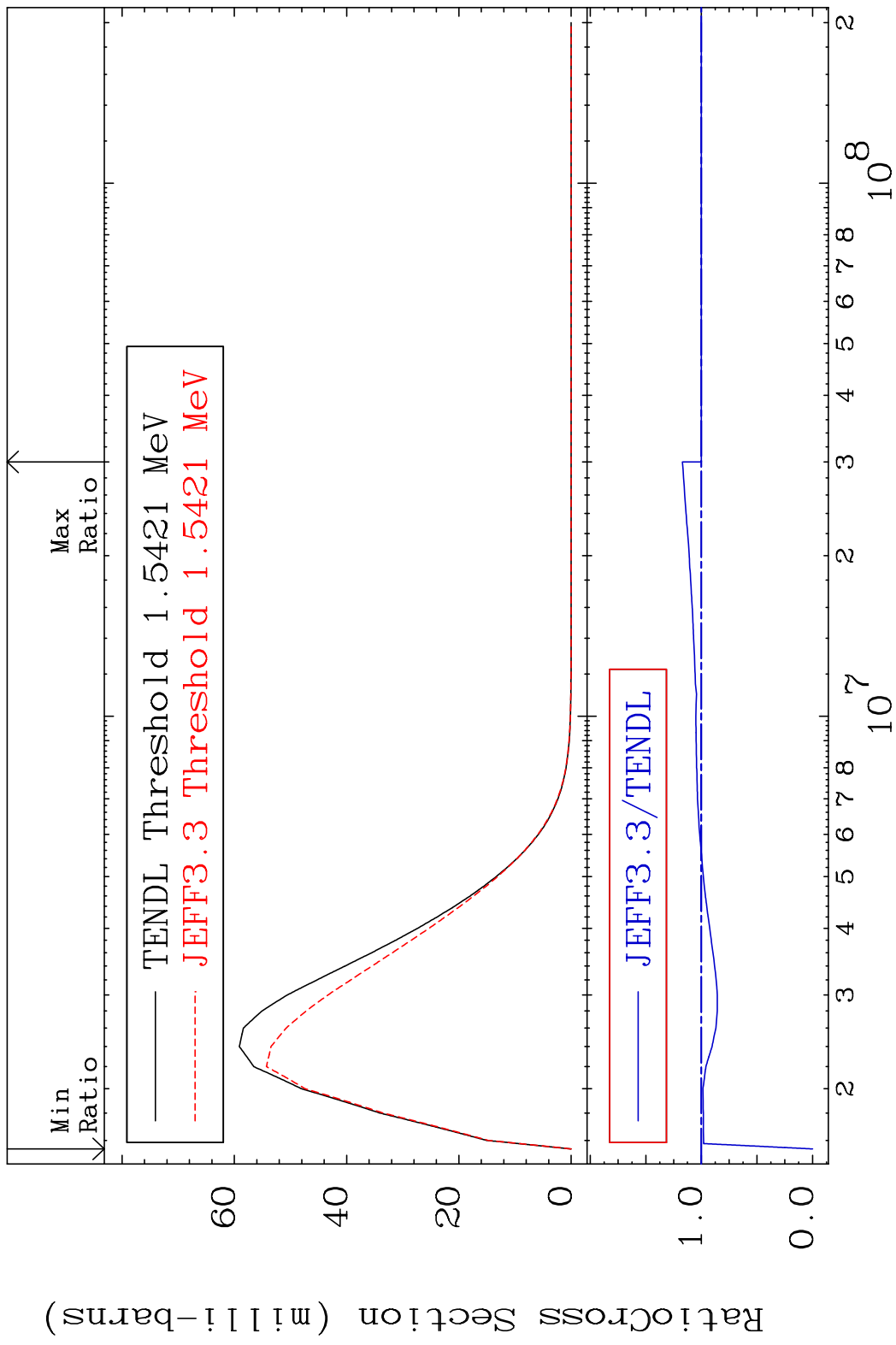
MAT 3119 MT= 57 (n,n') Level 31-Ga-67
 Cross Section -100.0 To 17.04 %



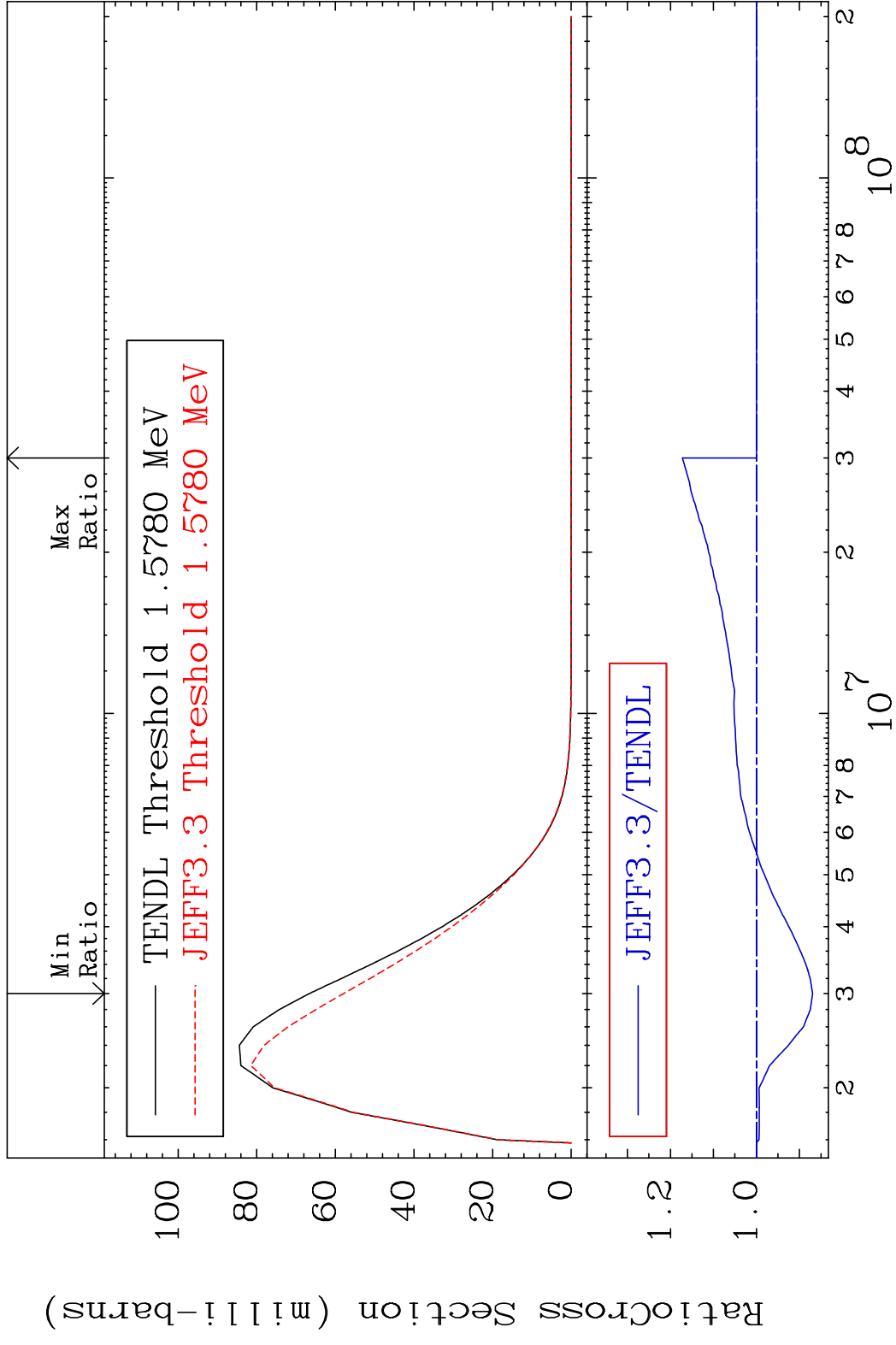
MAT 3119 MT= 58 (n,n') Level 31-Ga-67
 Cross Section -13.74 To 17.19 %



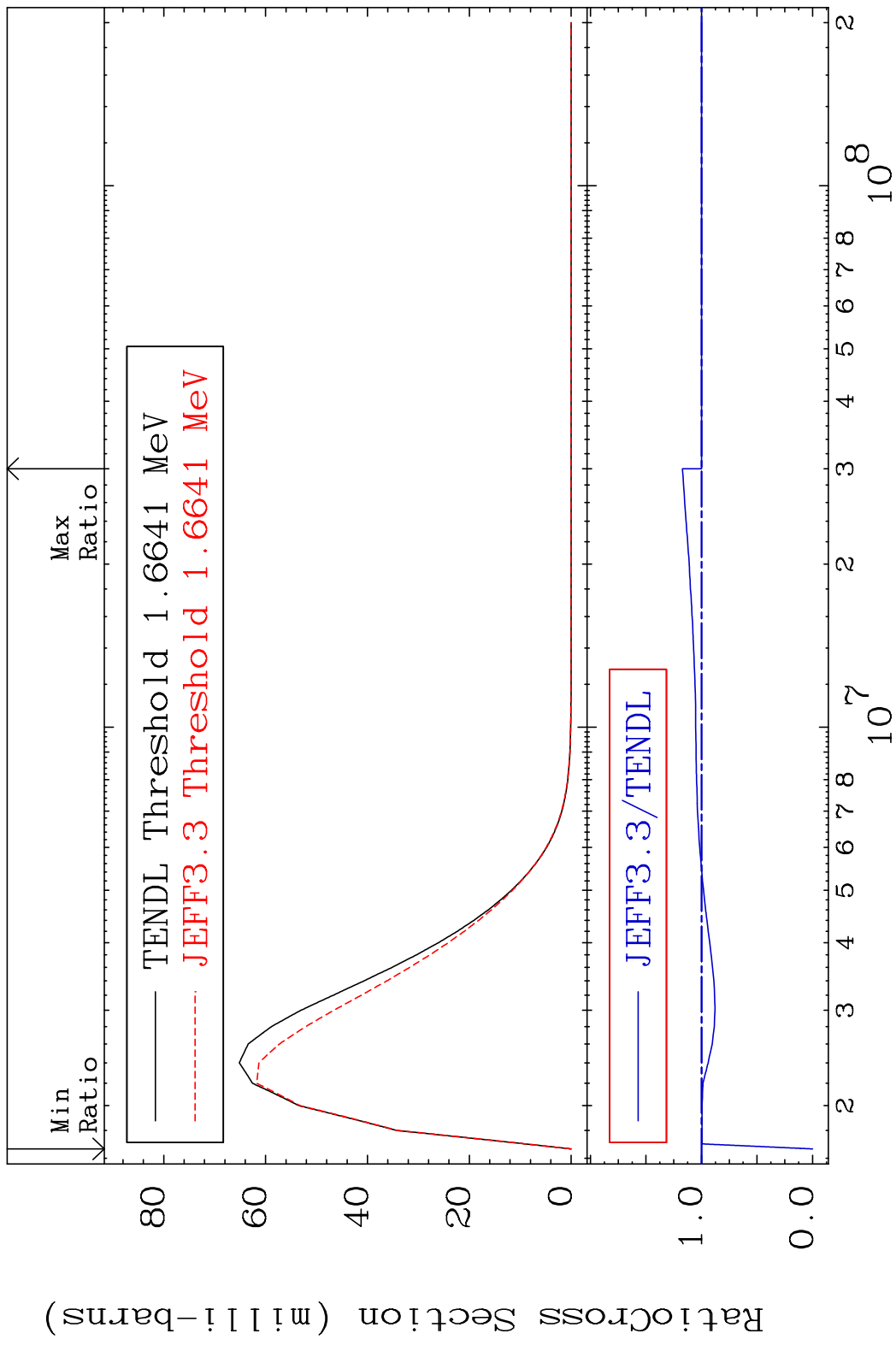
MAT 3119 MT= 59 (n, n') Level 31-Ga-67
 Cross Section -100.0 To 17.14 %



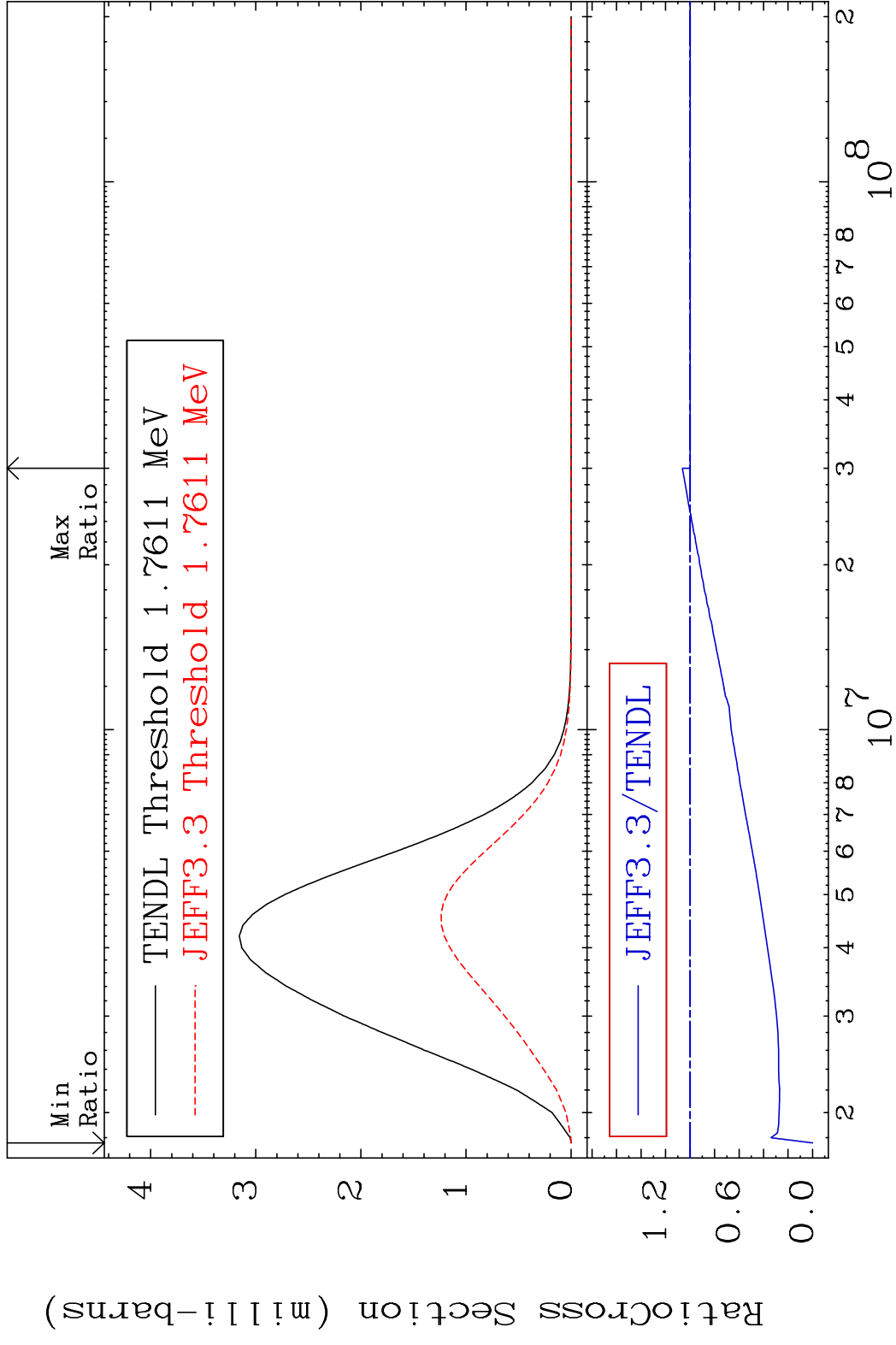
MAT 3119 MT= 60 (n,n') Level 31-Ga-67
 Cross Section -13.05 To 17.23 %



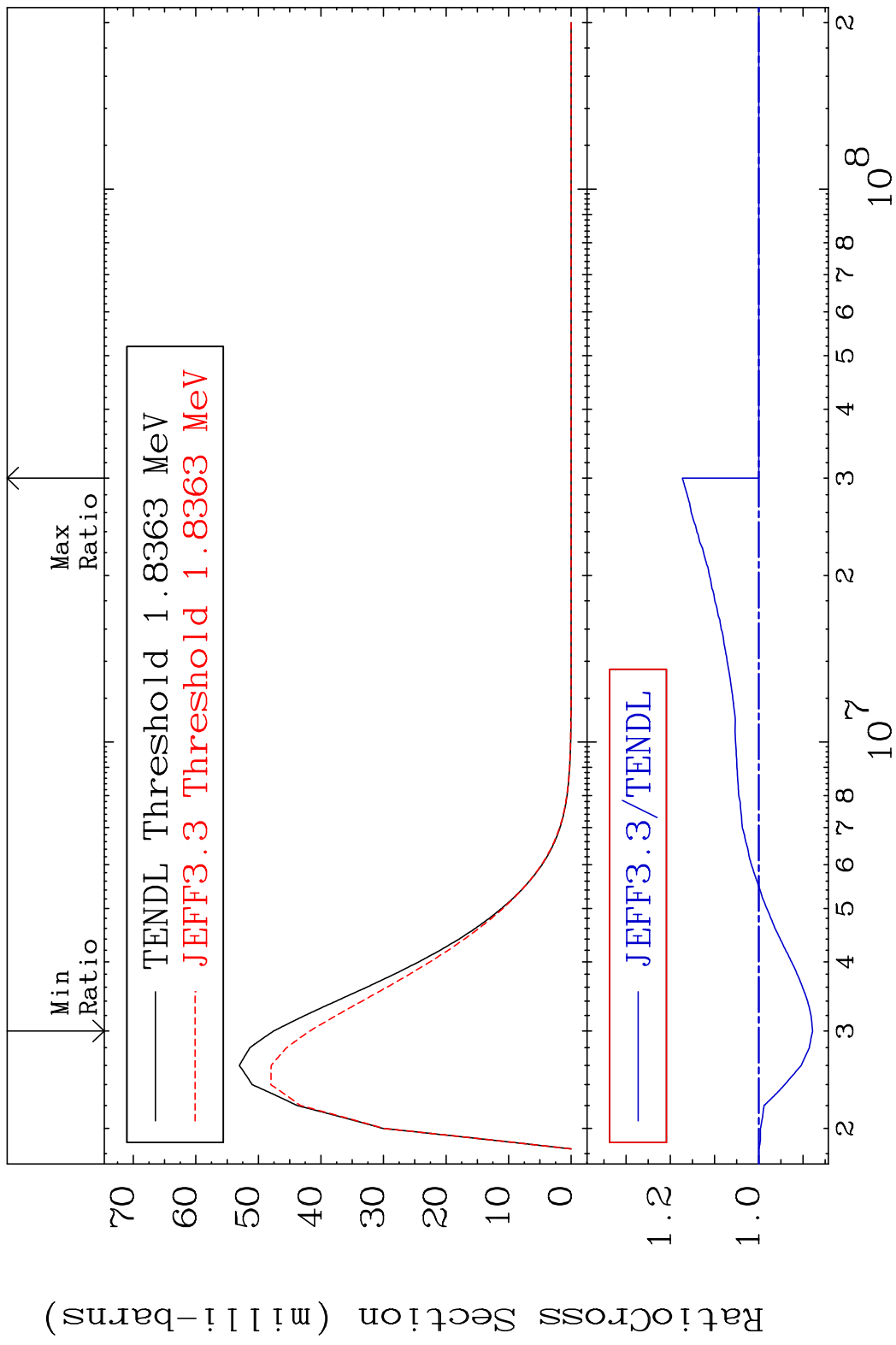
MAT 3119 MT= 61 (n, n') Level 31-Ga-67
 Cross Section -100.0 To 17.26 %



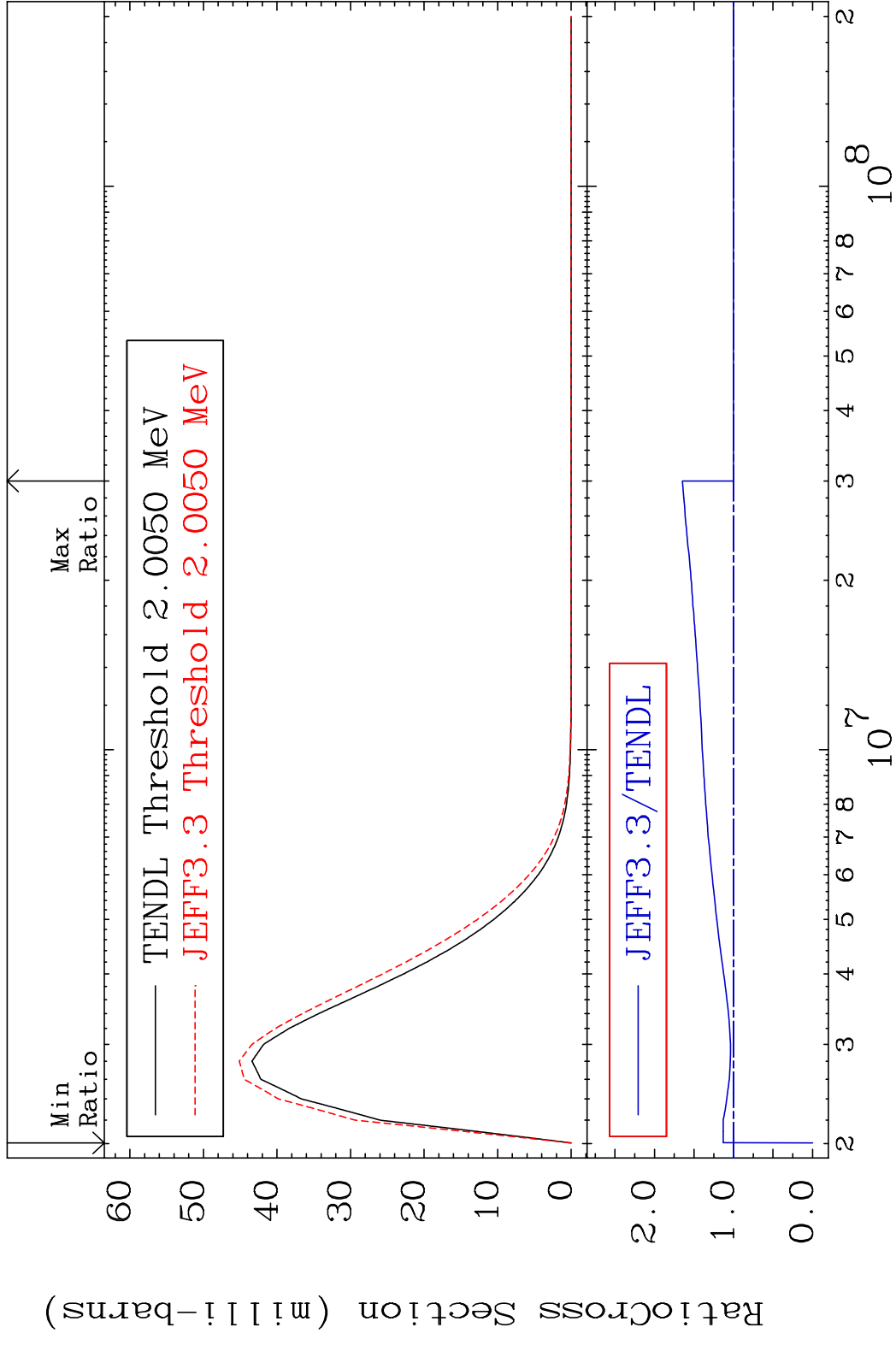
MAT 3119 MT= 62 (n, n') Level 31-Ga-67
 Cross Section -100.0 To 6.293 %



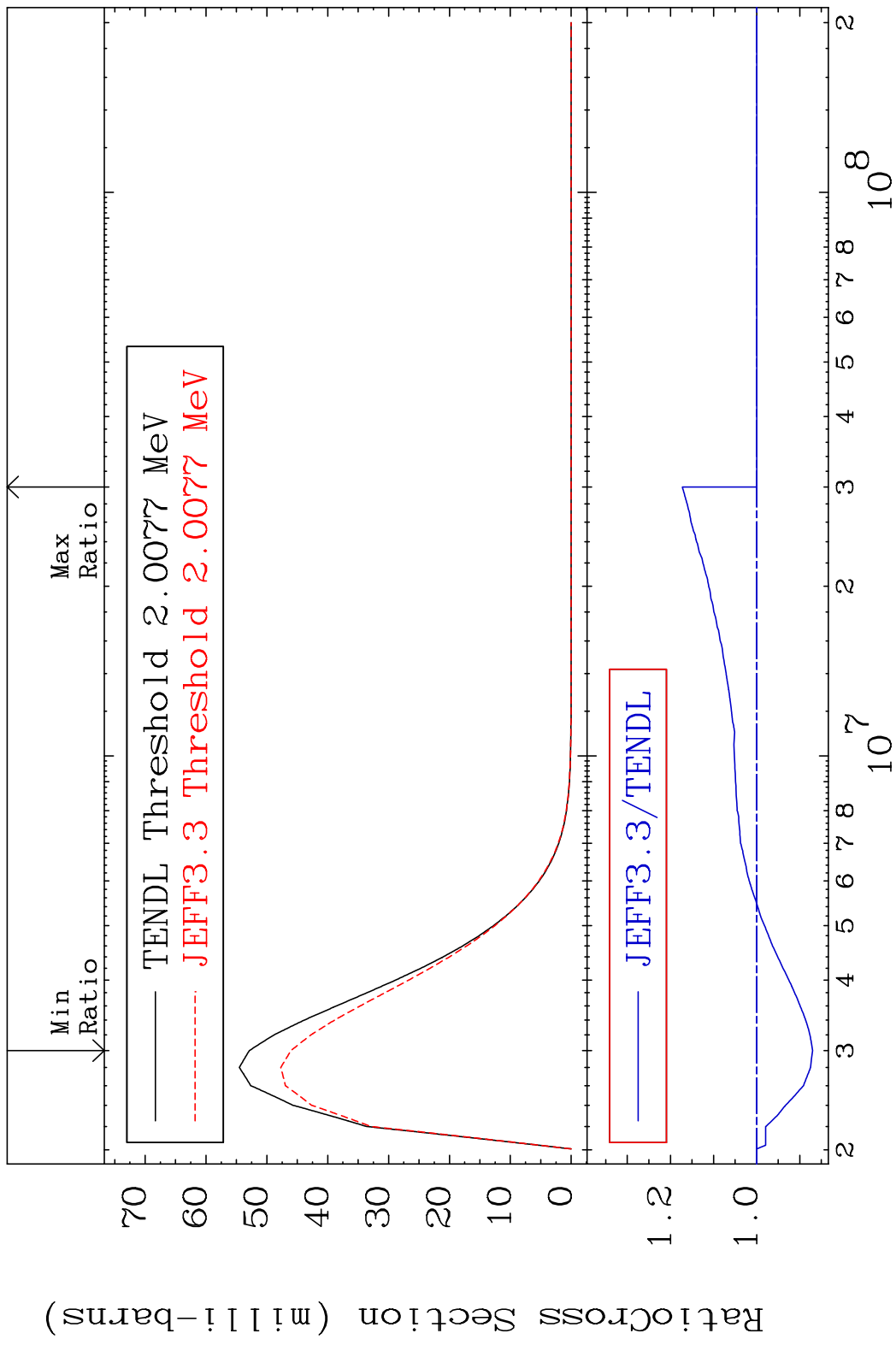
MAT 3119 MT= 63 (n, n') Level 31-Ga-67
 Cross Section -12.14 To 17.26 %



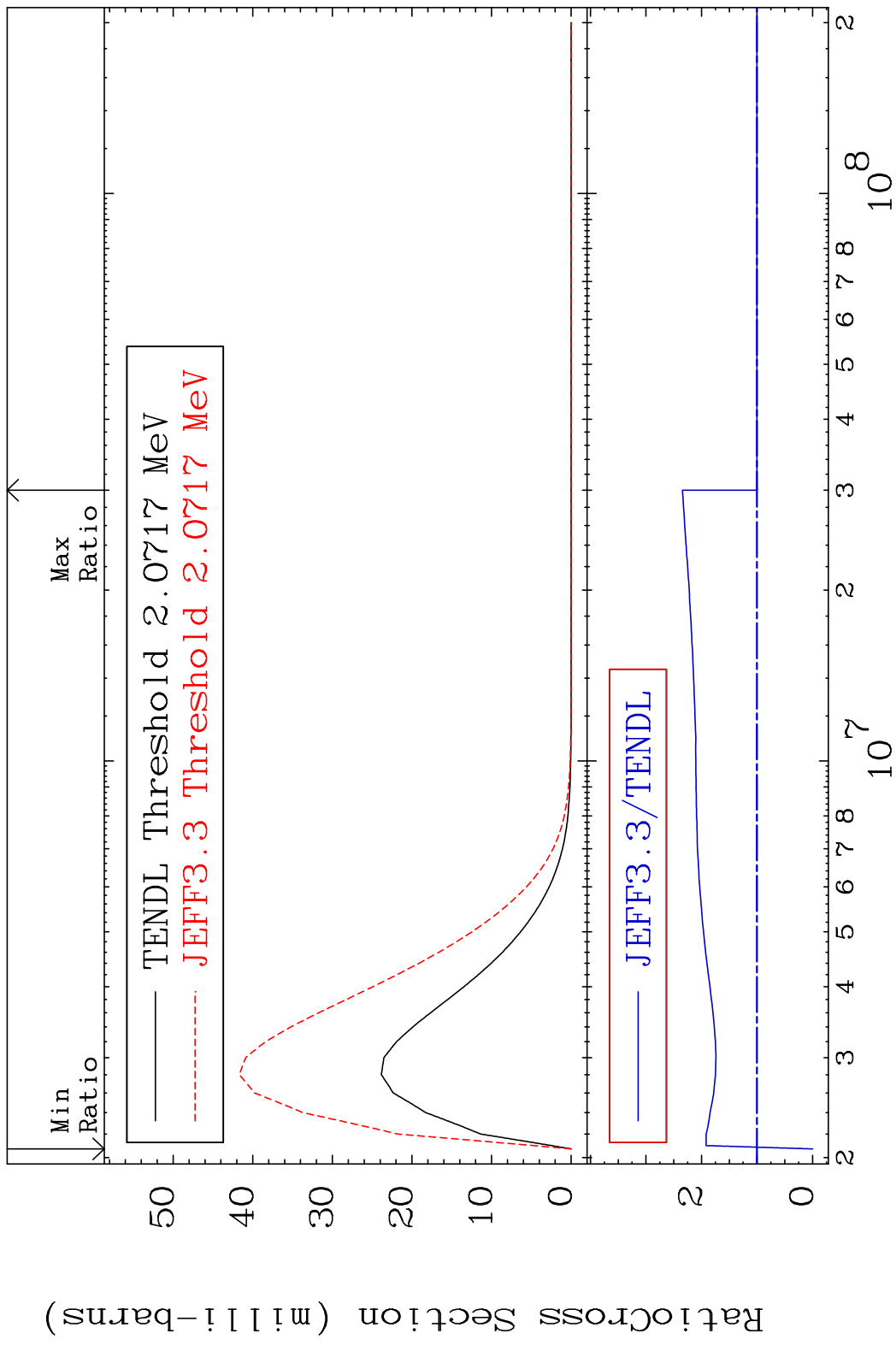
MAT 3119 MT= 64 (n, n') Level 31-Ga-67
 Cross Section -100.0 To 64.73 %



MAT 3119 MT= 65 (n, n') Level 31-Ga-67
 Cross Section -12.96 To 17.24 %

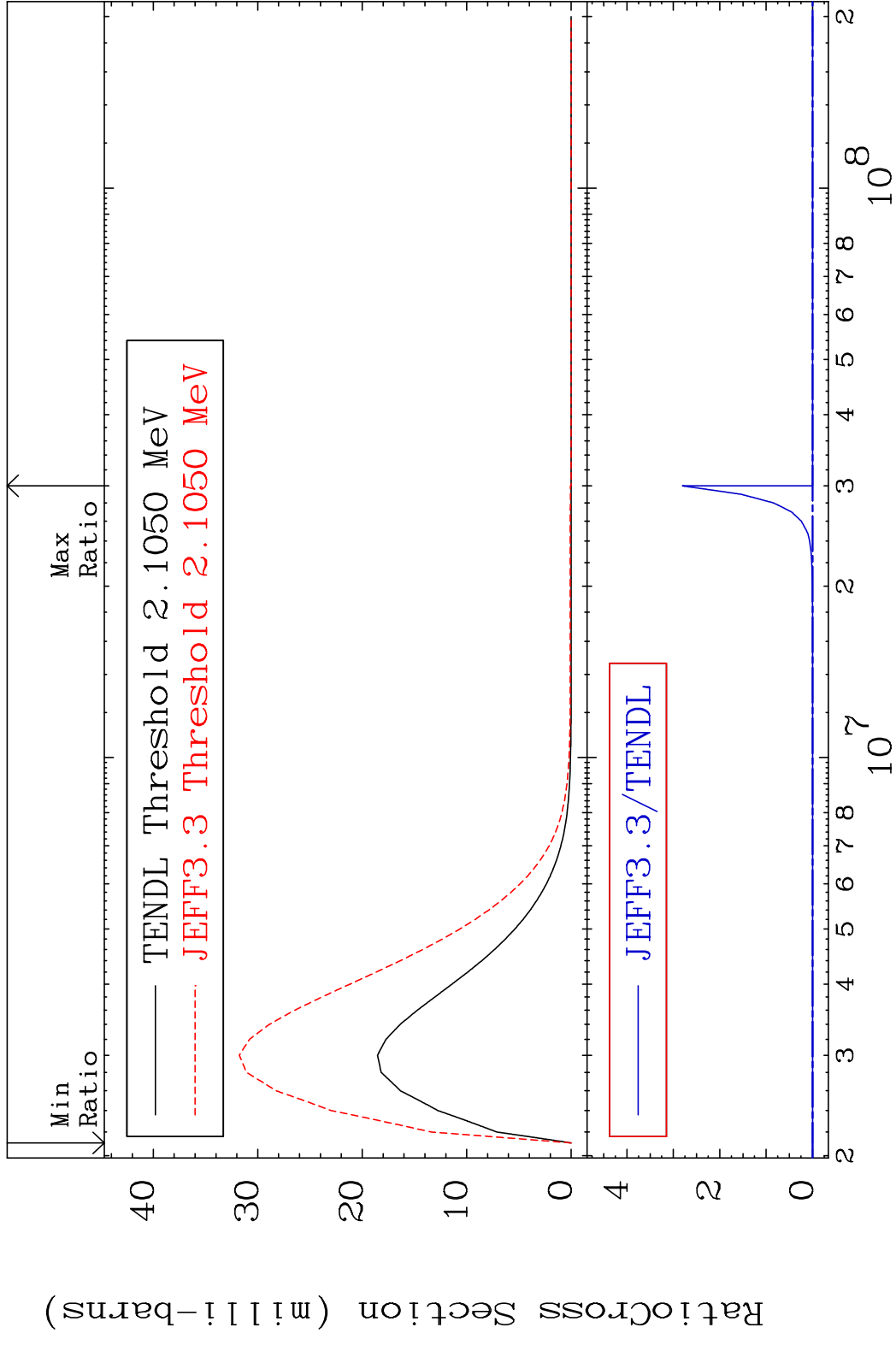


MAT 3119 MT= 66 (n, n') Level 31-Ga-67
 Cross Section -100.0 To 134.5 %

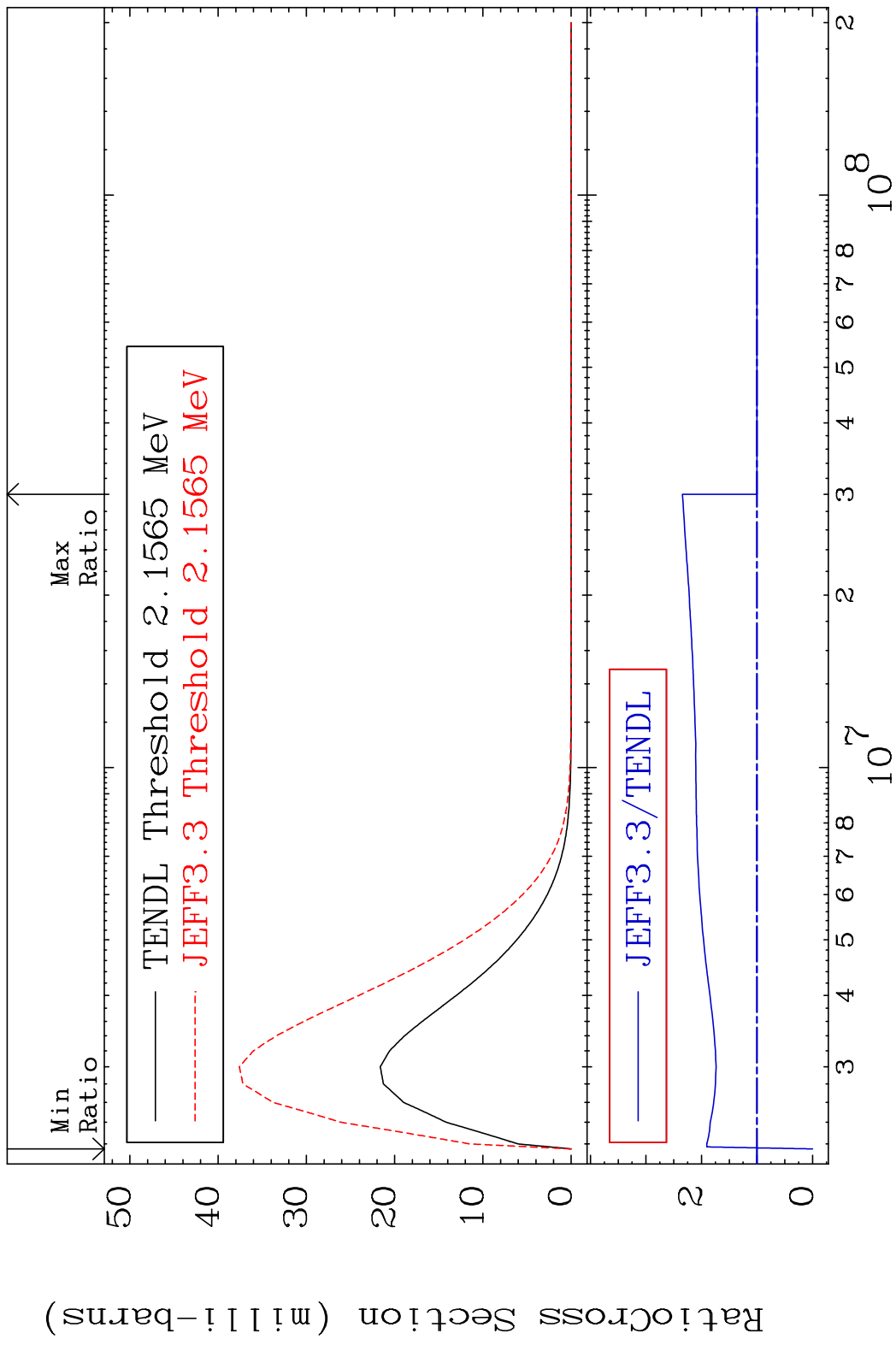


34 Incident Energy (eV) 31-Ga-67

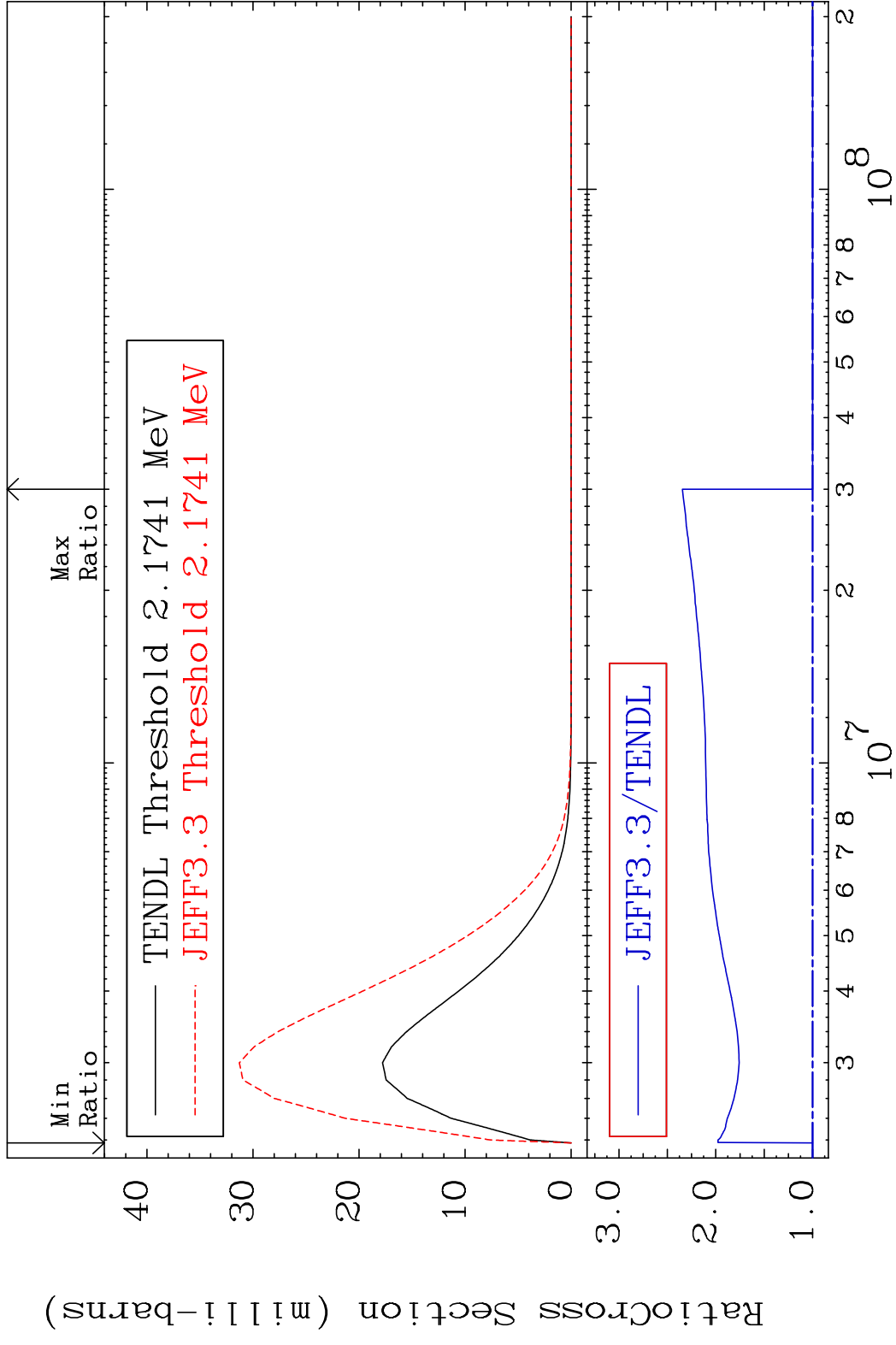
MAT 3119 MT= 67 (n, n') Level 31-Ga-67
 Cross Section -100.0 To 9999. %



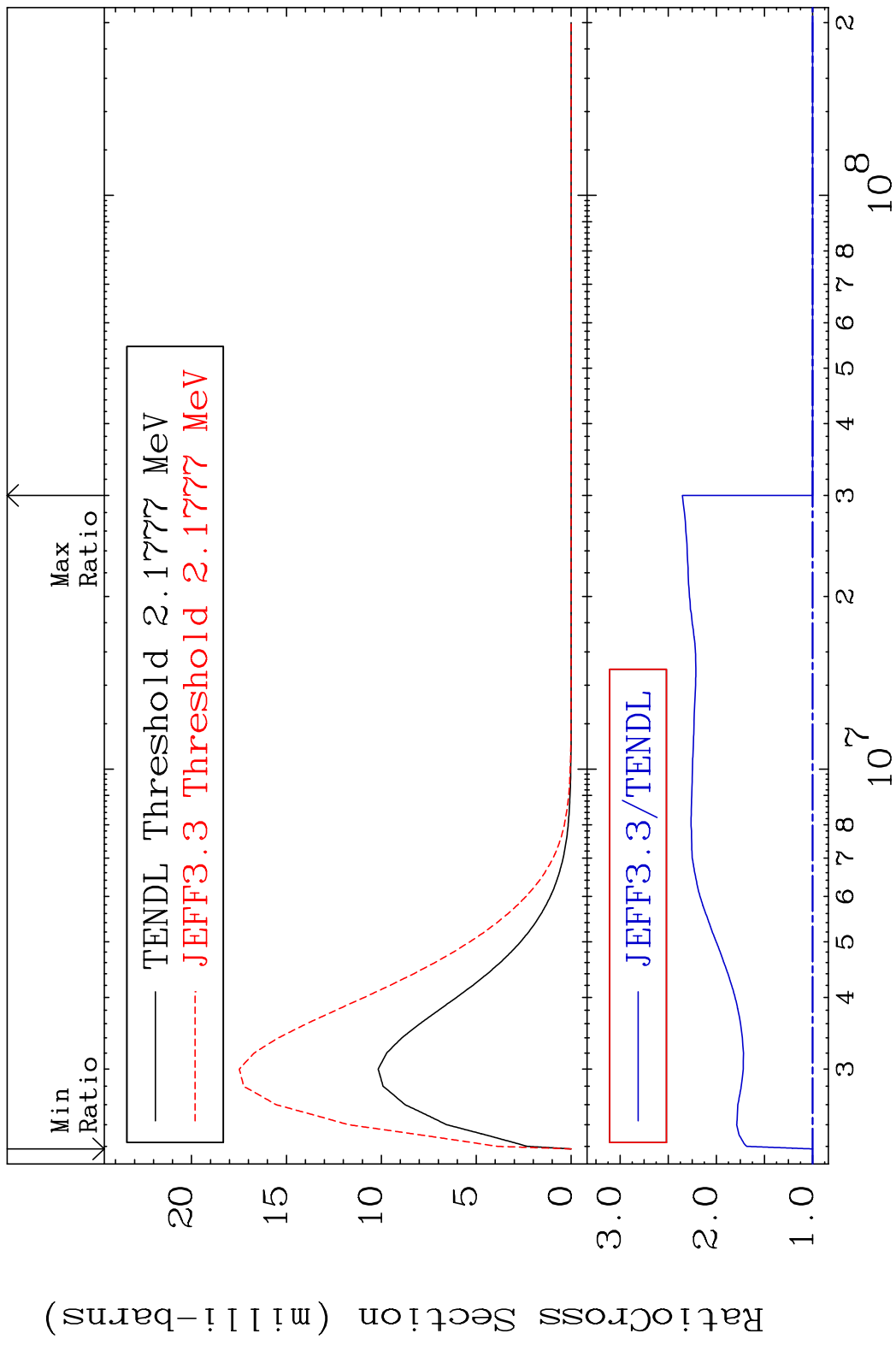
MAT 3119 MT= 68 (n, n') Level 31-Ga-67
 Cross Section -100.0 To 134.5 %



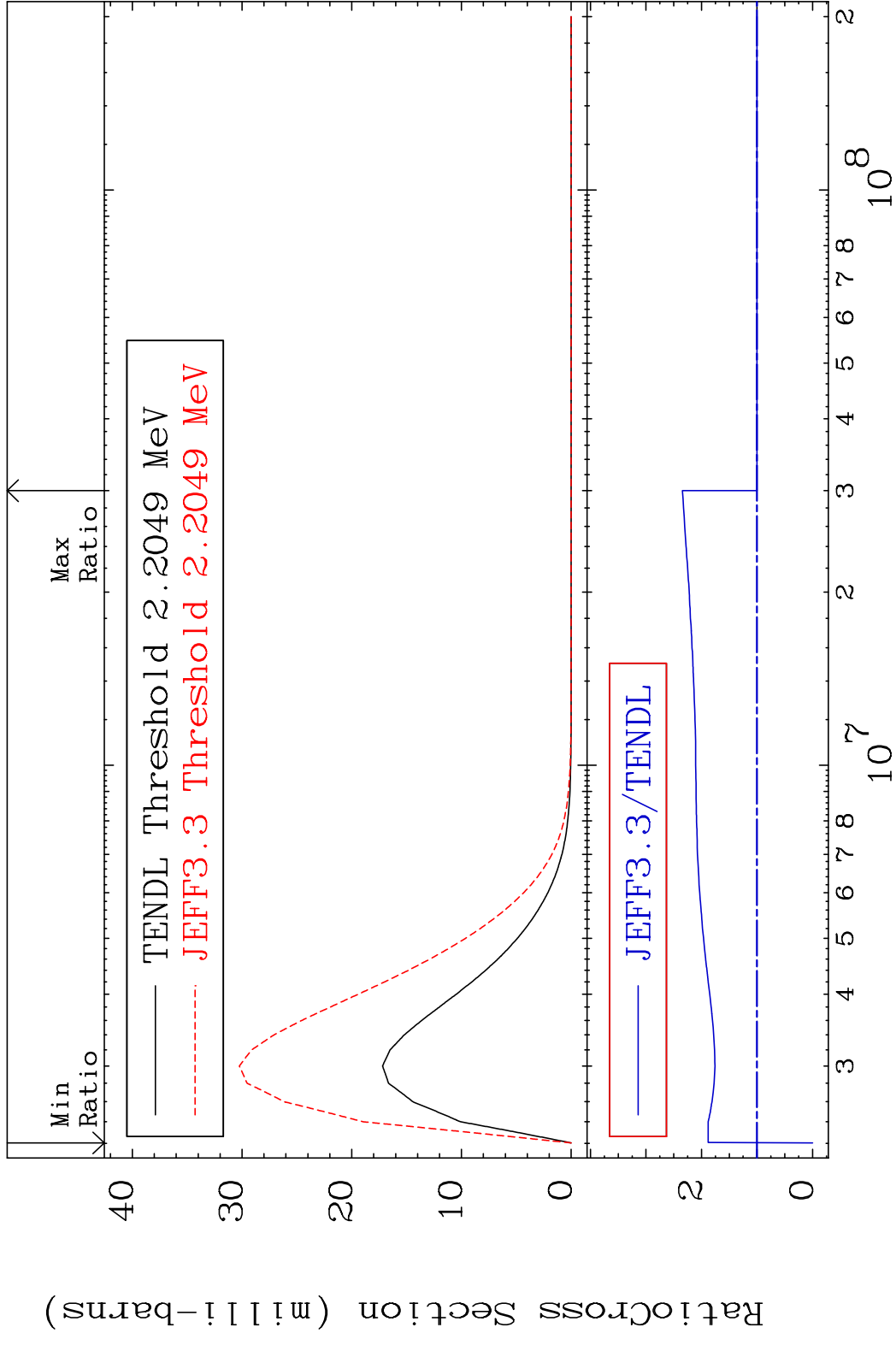
MAT 3119 MT= 69 (n, n') Level 31-Ga-67
 Cross Section 0.000 To 134.5 %



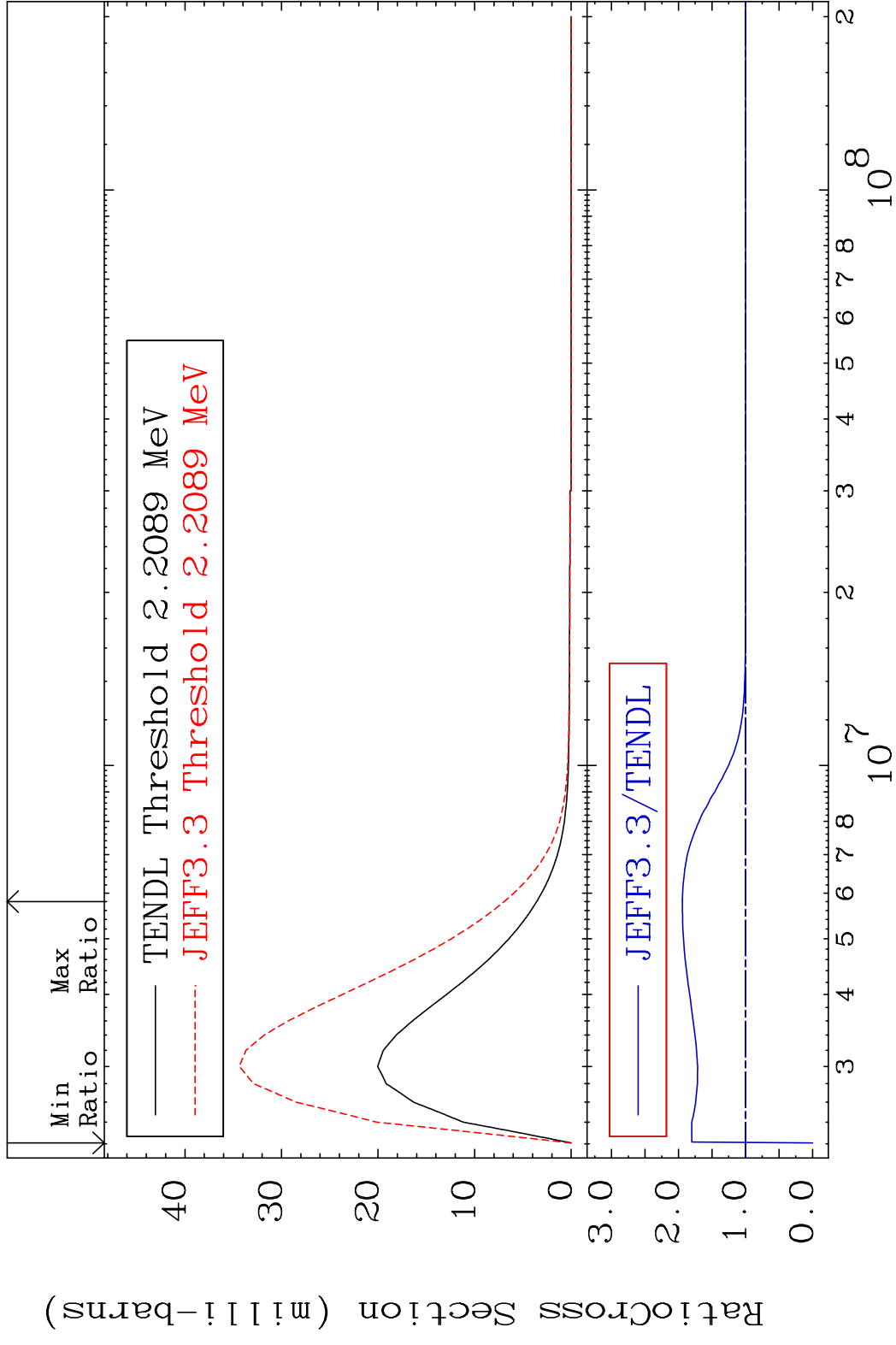
MAT 3119 MT= 70 (n, n') Level 31-Ga-67
 Cross Section 0.000 To 135.3 %



MAT 3119 MT= 71 (n, n') Level 31-Ga-67
 Cross Section -100.0 To 134.5 %

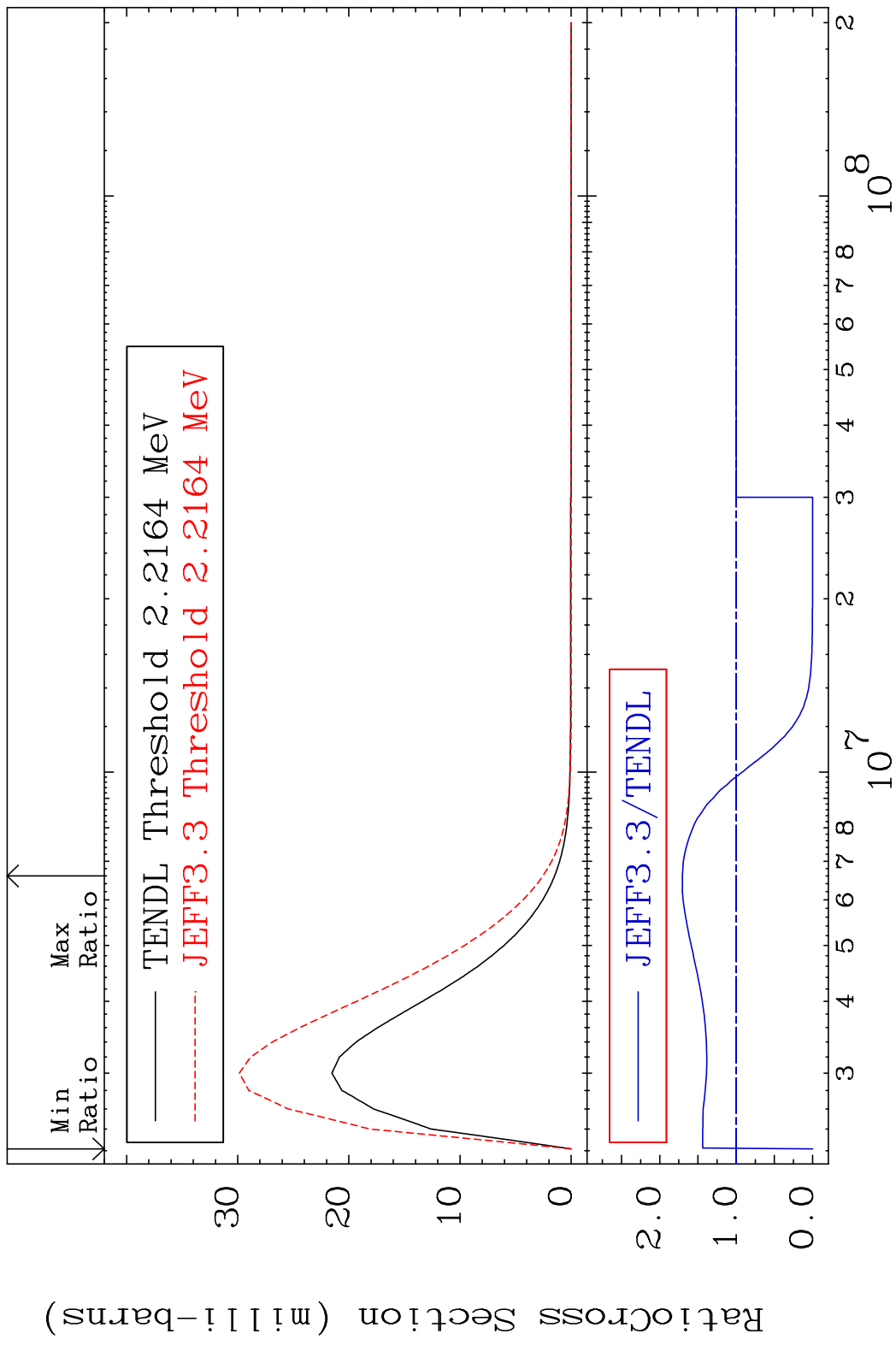


MAT 3119 MT= 72 (n, n') Level 31-Ga-67
 Cross Section -100.0 To 94.26 %

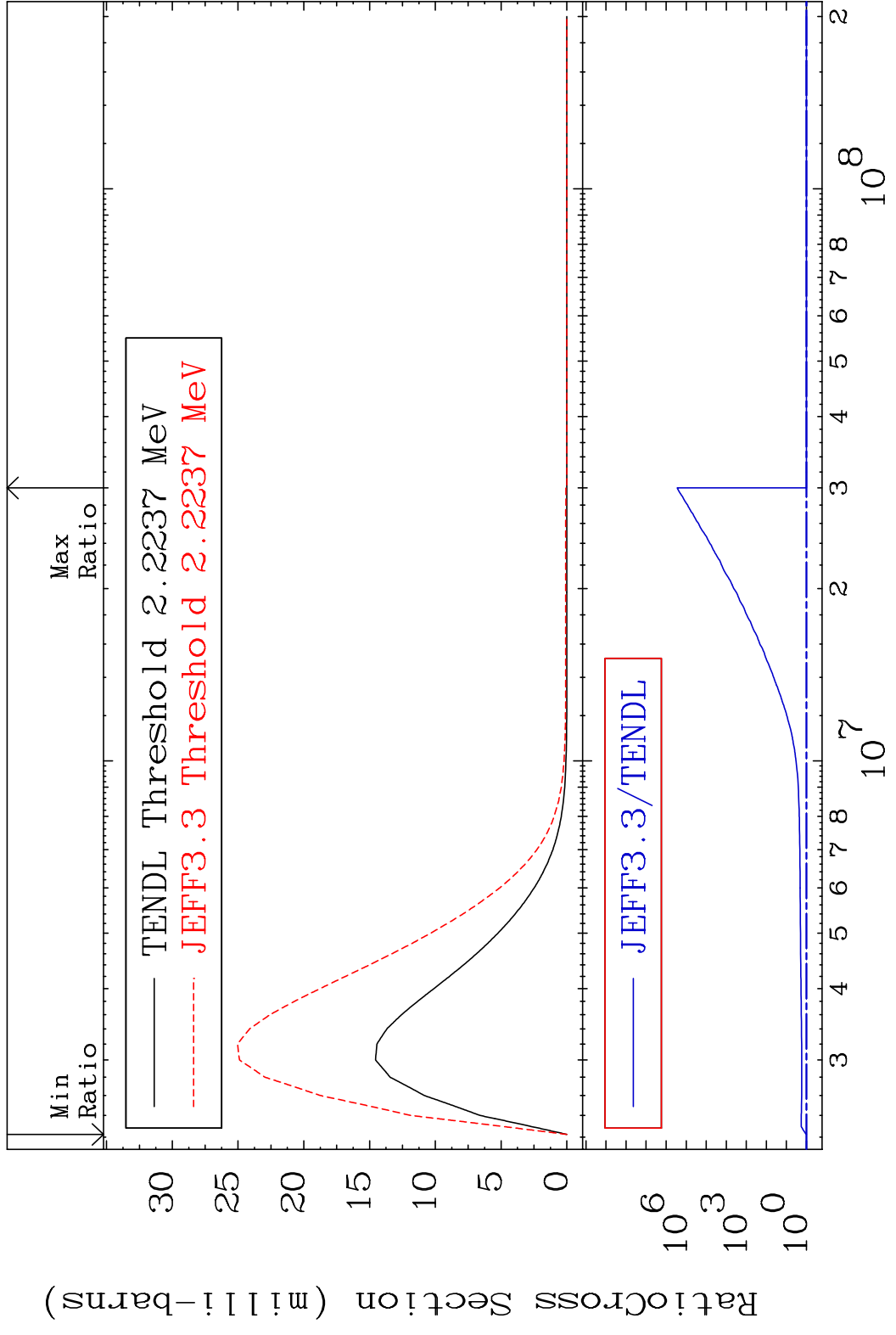


40 31-Ga-67

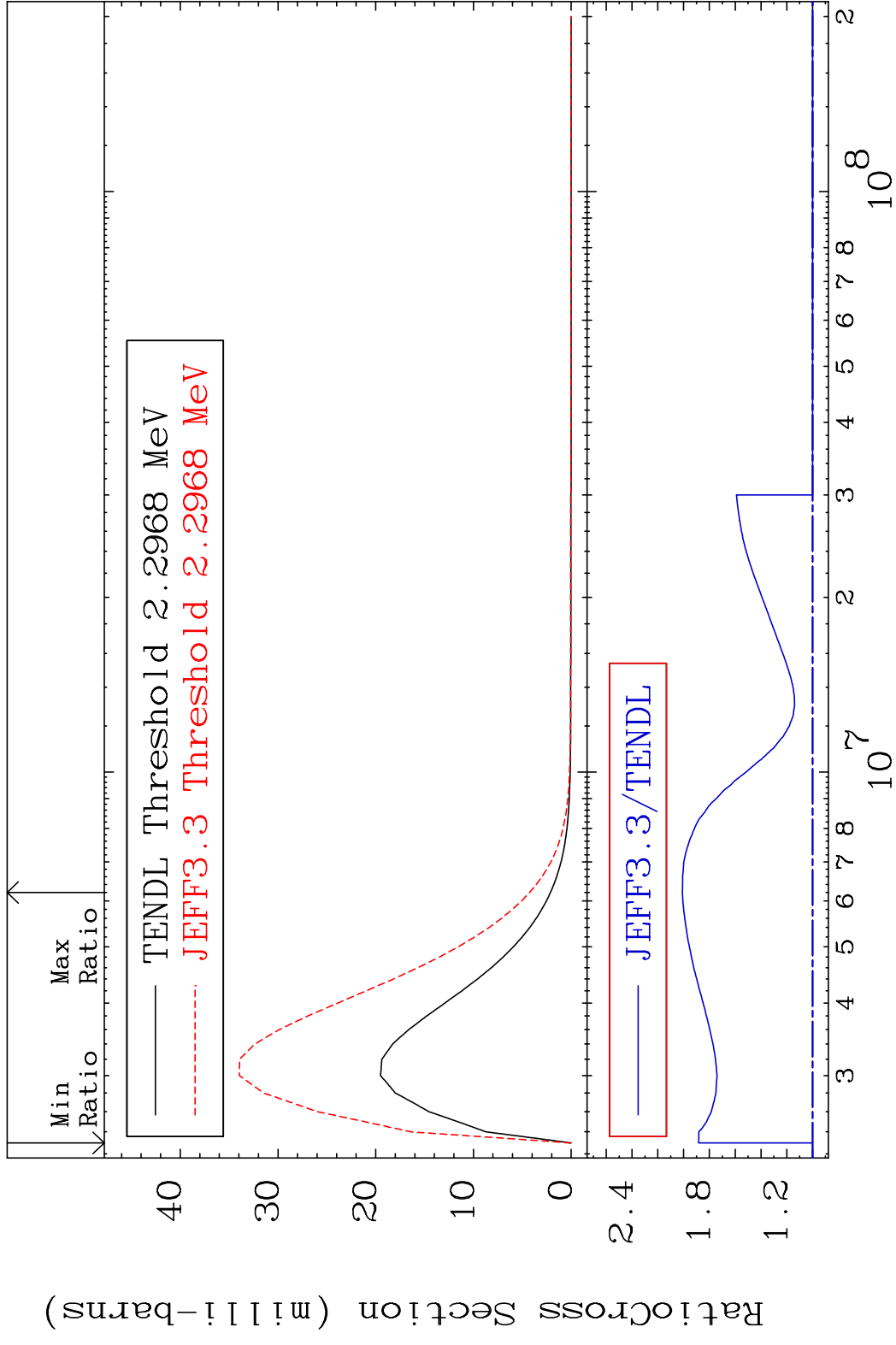
MAT 3119 MT= 73 (n, n') Level 31-Ga-67
 Cross Section -100.0 To 70.41 %



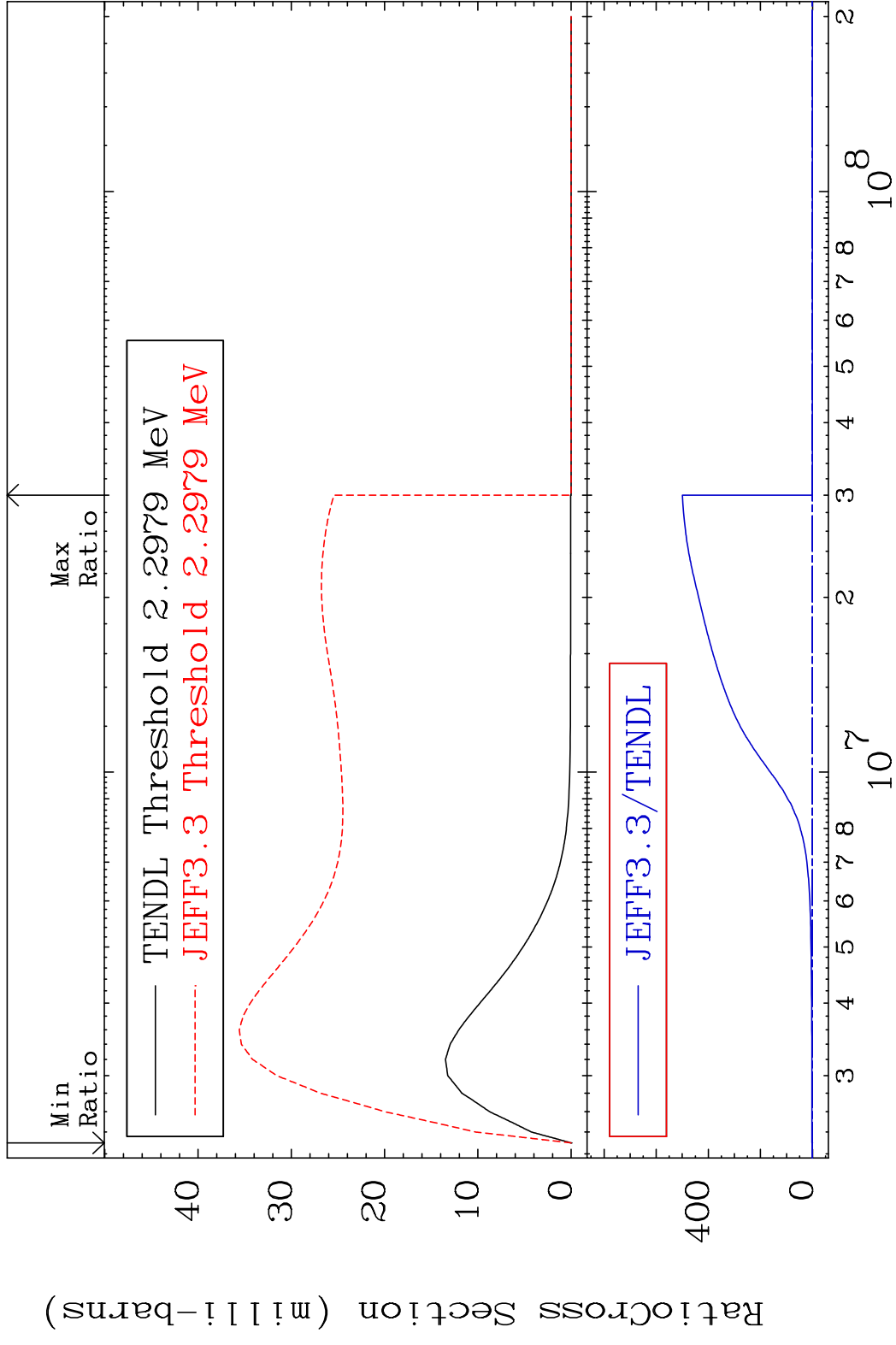
MAT 3119 MT= 74 (n, n') Level 31-Ga-67
 Cross Section 0.000 To 9999. %



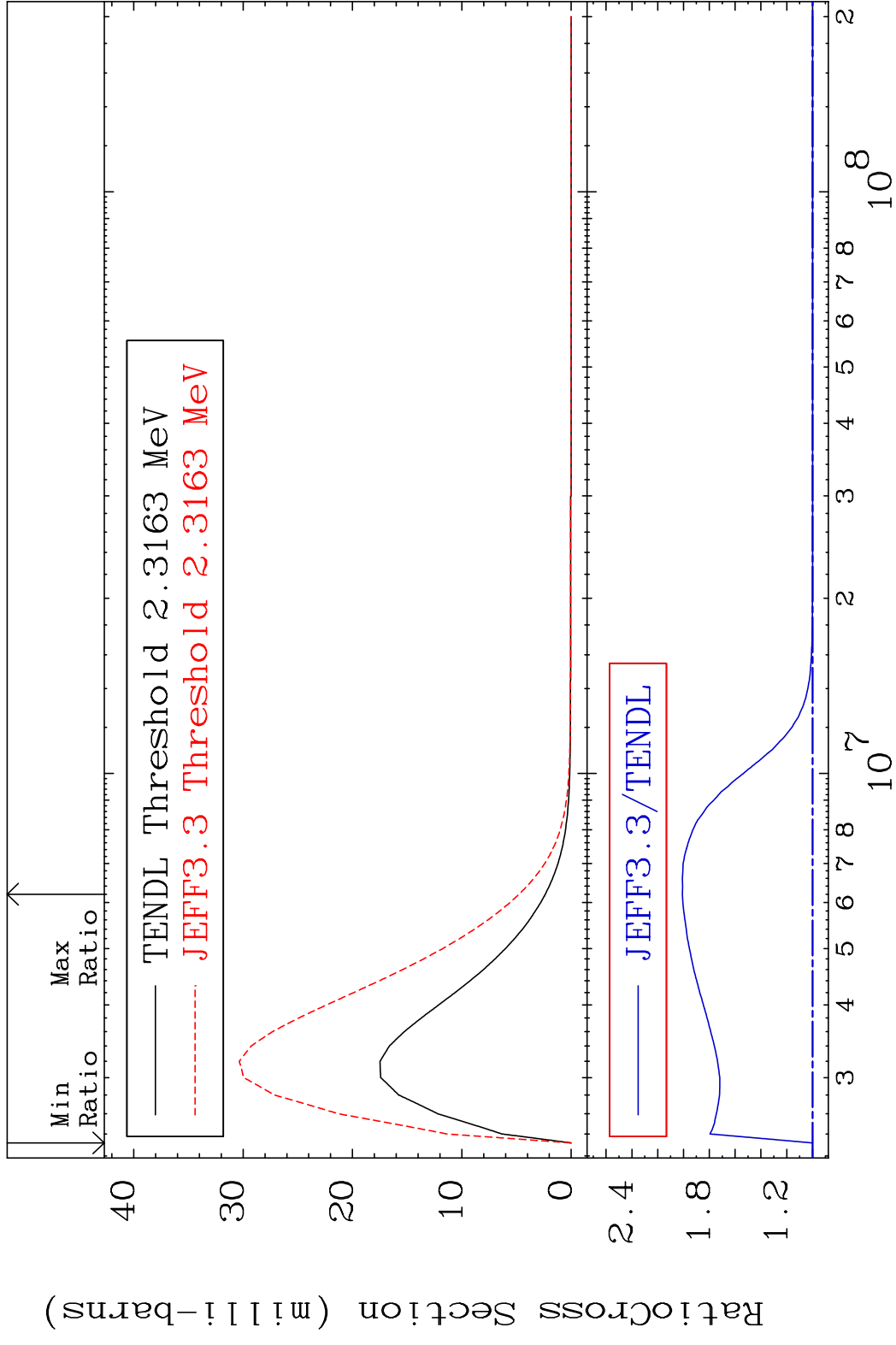
MAT 3119 MT= 75 (n,n') Level 31-Ga-67
 Cross Section 0.000 To 101.0 %



MAT 3119 MT= 76 (n, n') Level 31-Ga-67
 Cross Section -100.0 To 9999. %

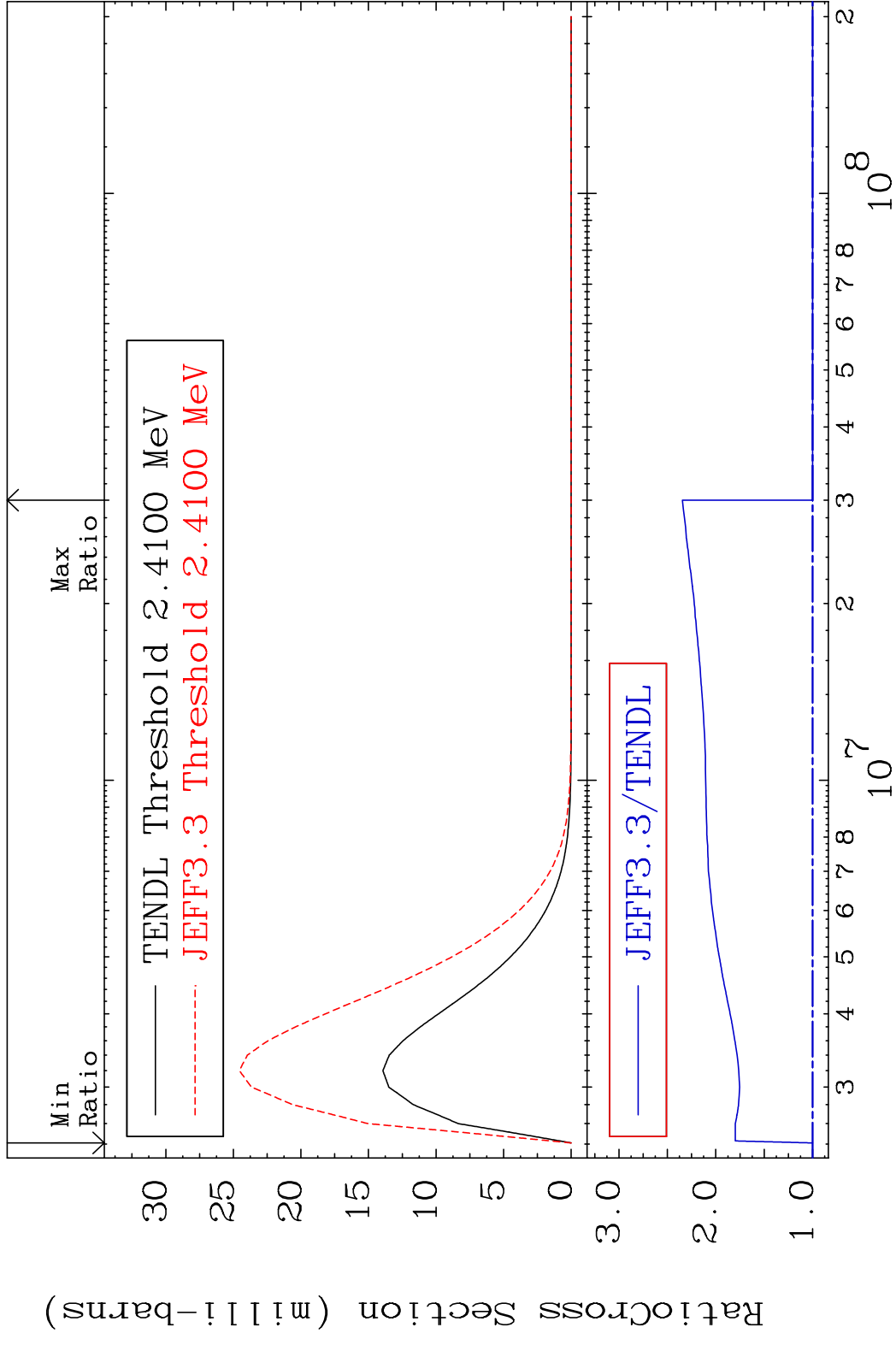


MAT 3119 MT= 77 (n, n') Level 31-Ga-67
 Cross Section 0.000 To 100.9 %

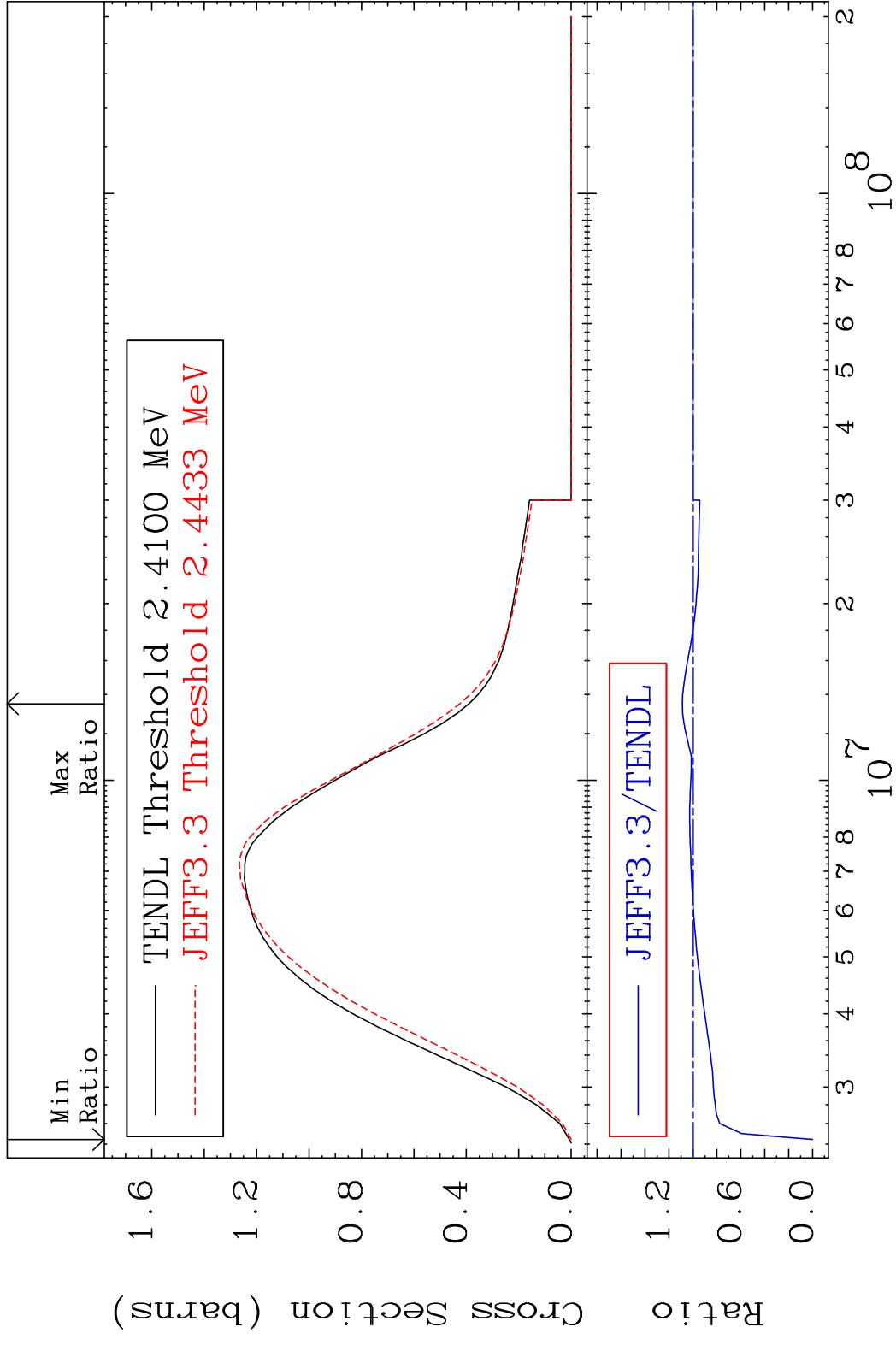


45 Incident Energy (eV) 31-Ga-67

MAT 3119 MT= 78 (n, n') Level 31-Ga-67
 Cross Section 0.000 To 134.6 %



MAT 3119 (n, n') Continuum 31-Ga-67
 Cross Section -100.0 To 8.805 %

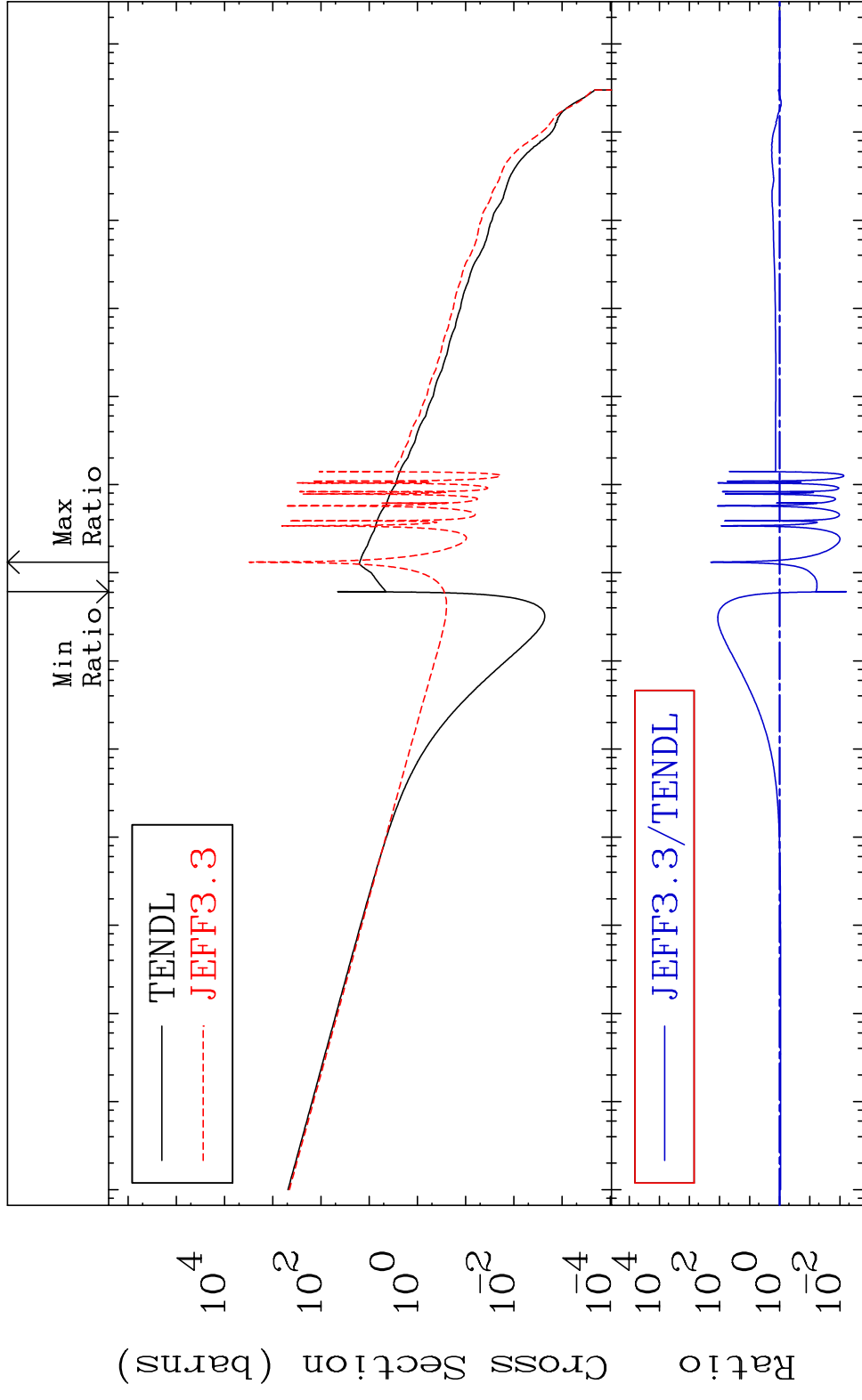


MAT 3119

31-Ga-67

(n, γ)

Cross Section -99.39 To 9999. %

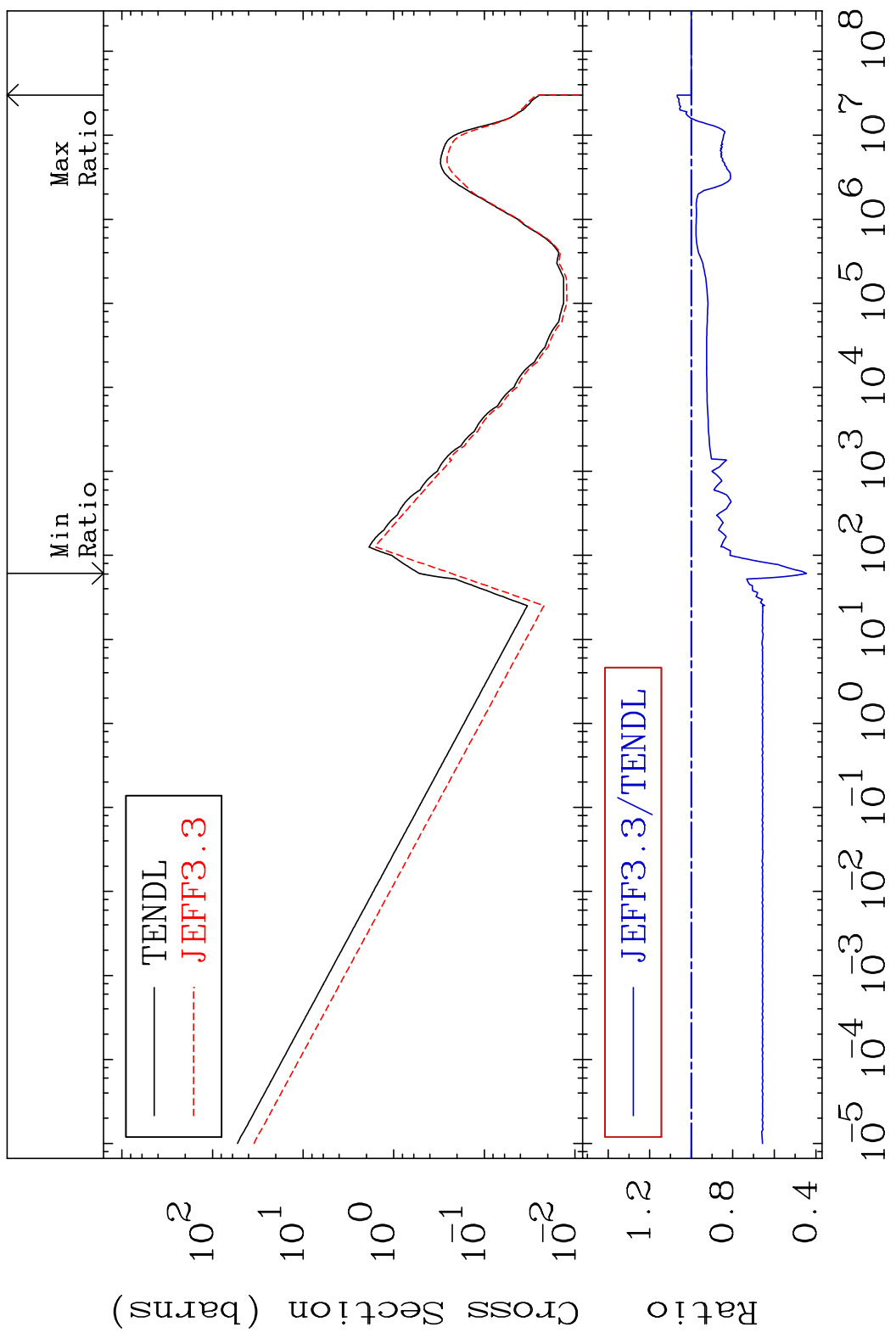


MAT 3119

(n, p)

31-Ga-67

Cross Section -55.44 To 6.759 %

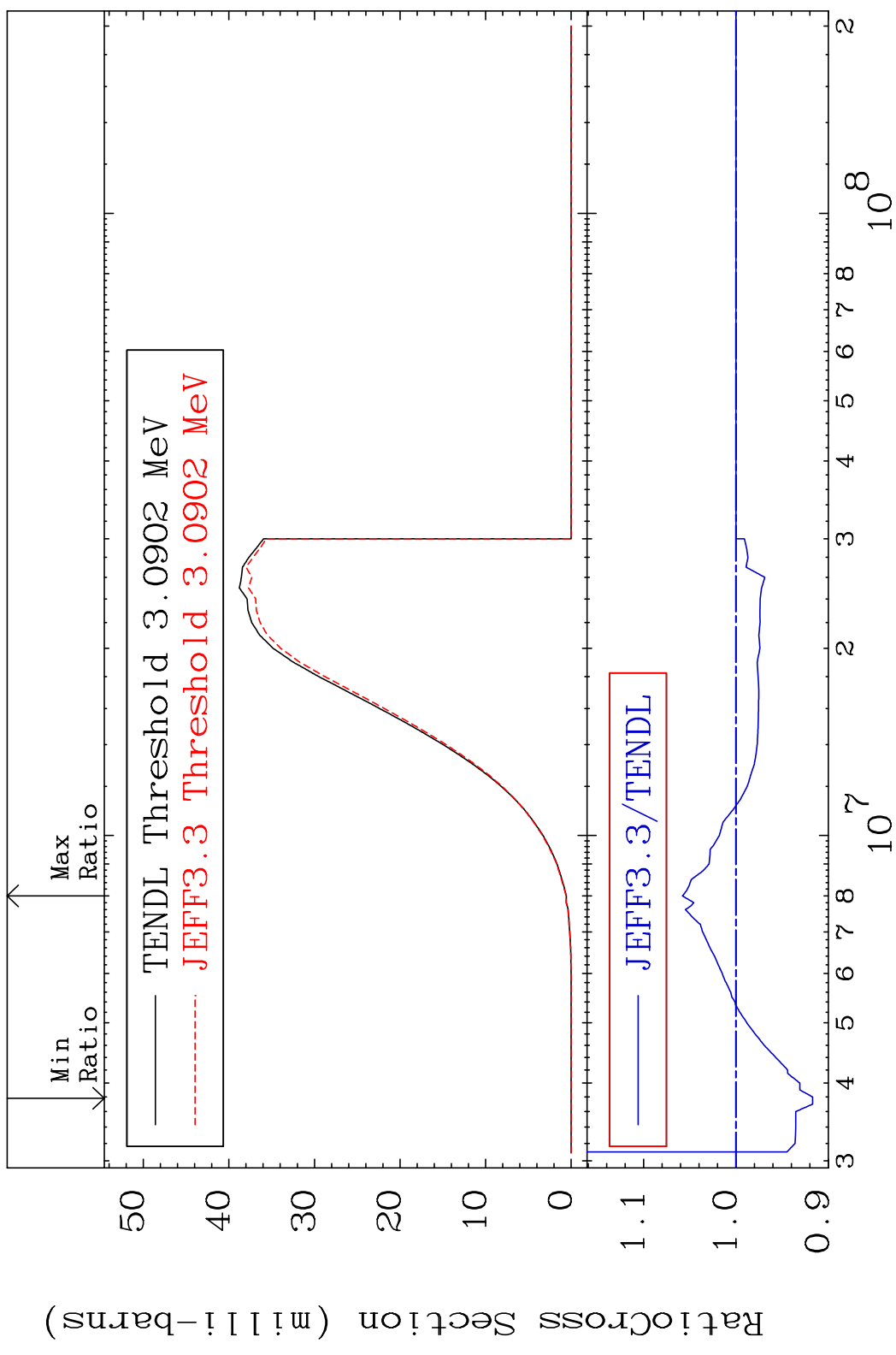


MAT 3119

(n, d)

31-Ga-67

Cross Section -8.293 To 5.800 %

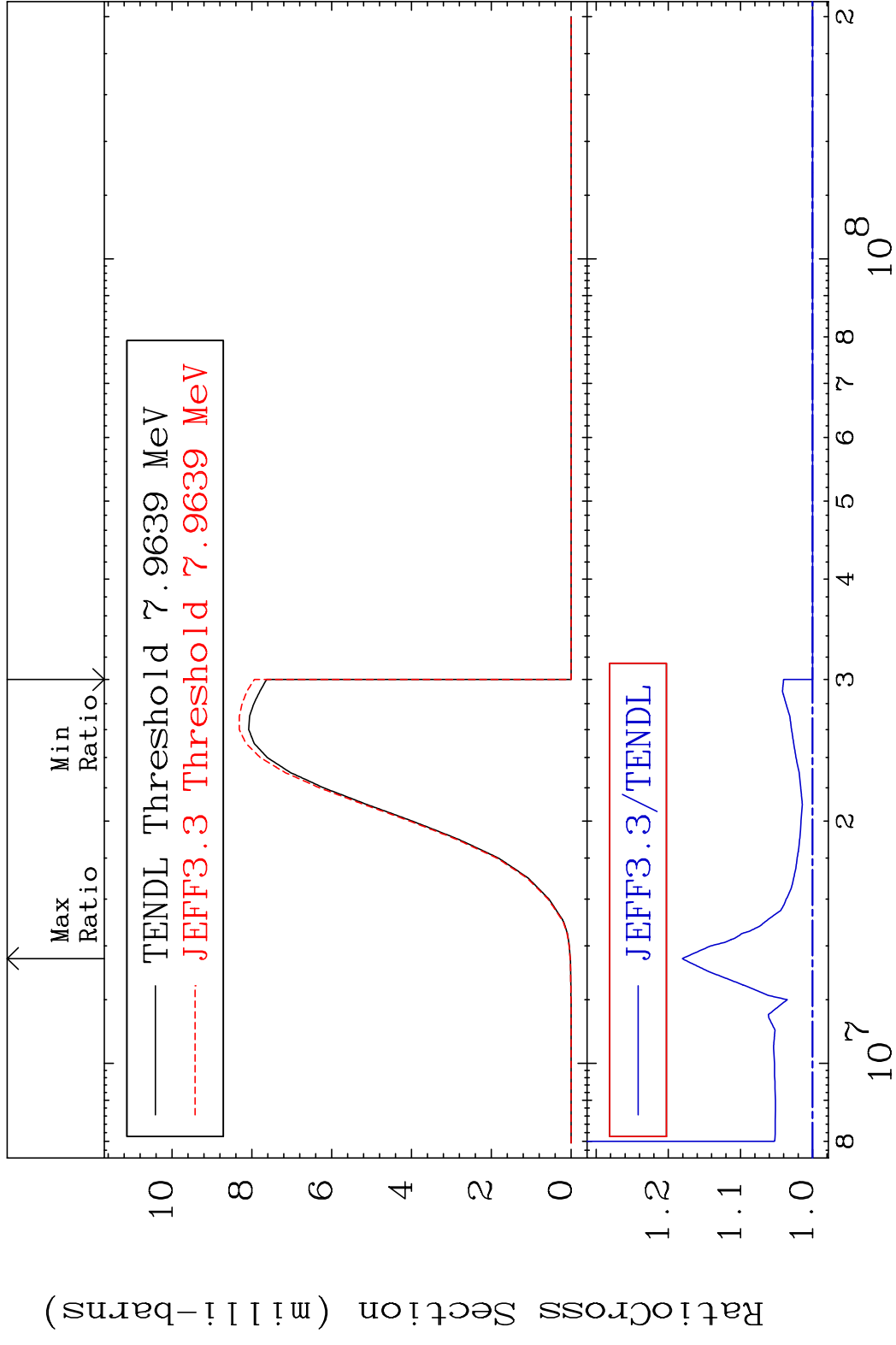


50

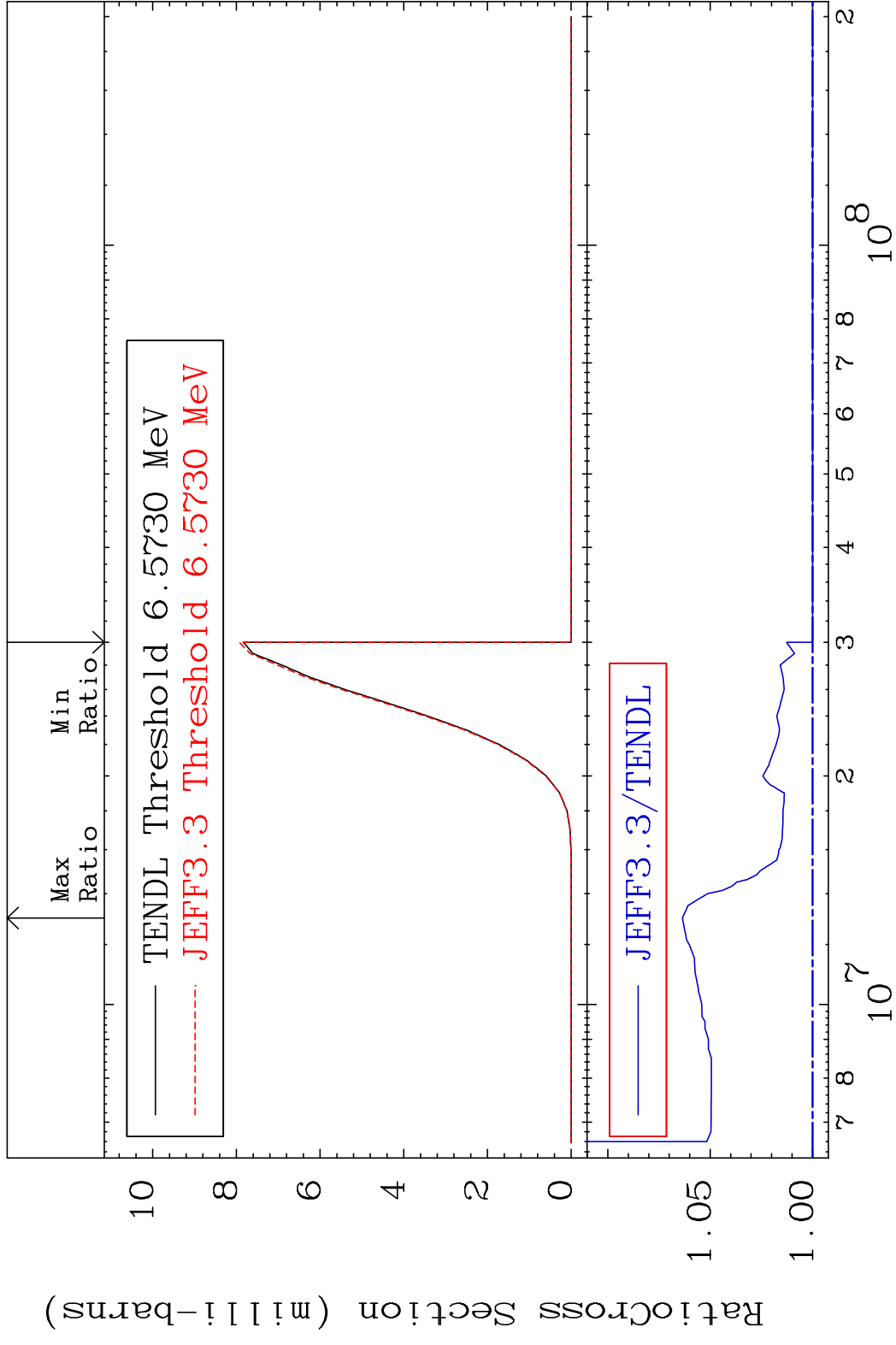
Incident Energy (eV)

31-Ga-67

Cross Section 0.000 To 18.05 %



MAT 3119 (n, He-3) 31-Ga-67
 Cross Section 0.000 To 6.360 %

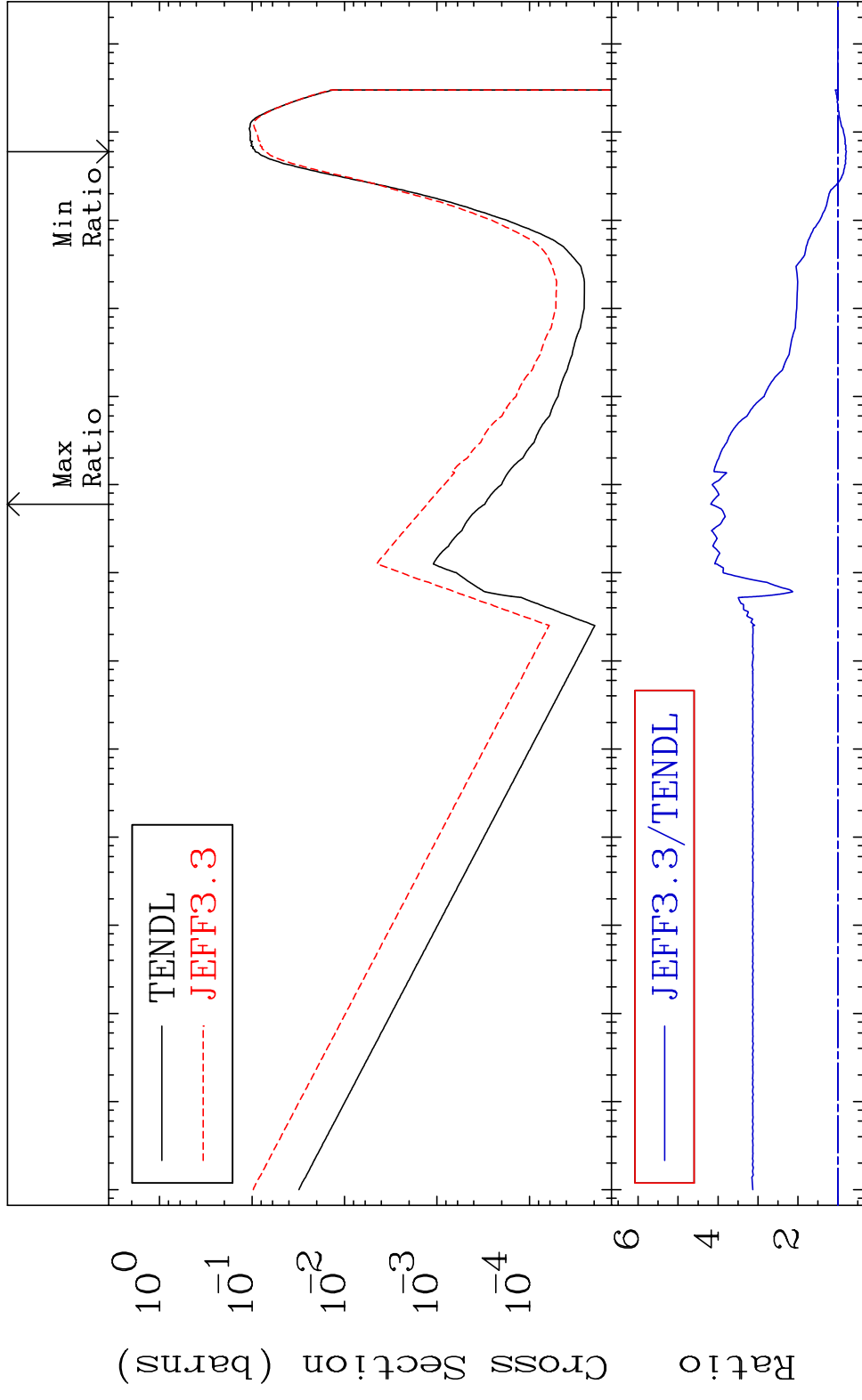


MAT 3119

31-Ga-67

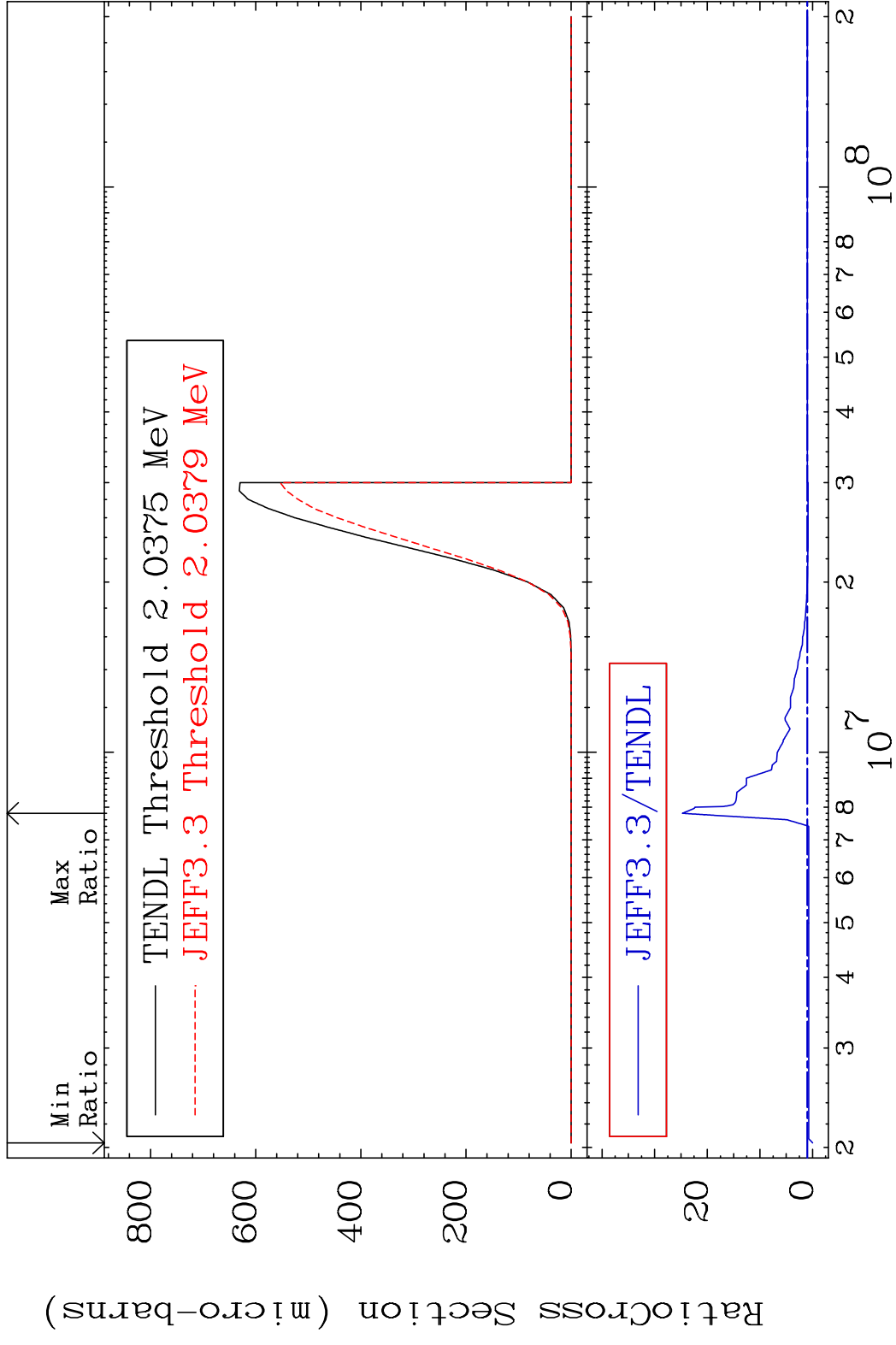
(n, α)

Cross Section -21.51 To 318.3 %



Incident Energy (eV)

MAT 3119 (n,2α) 31-Ga-67
 Cross Section -100.0 To 2374. %

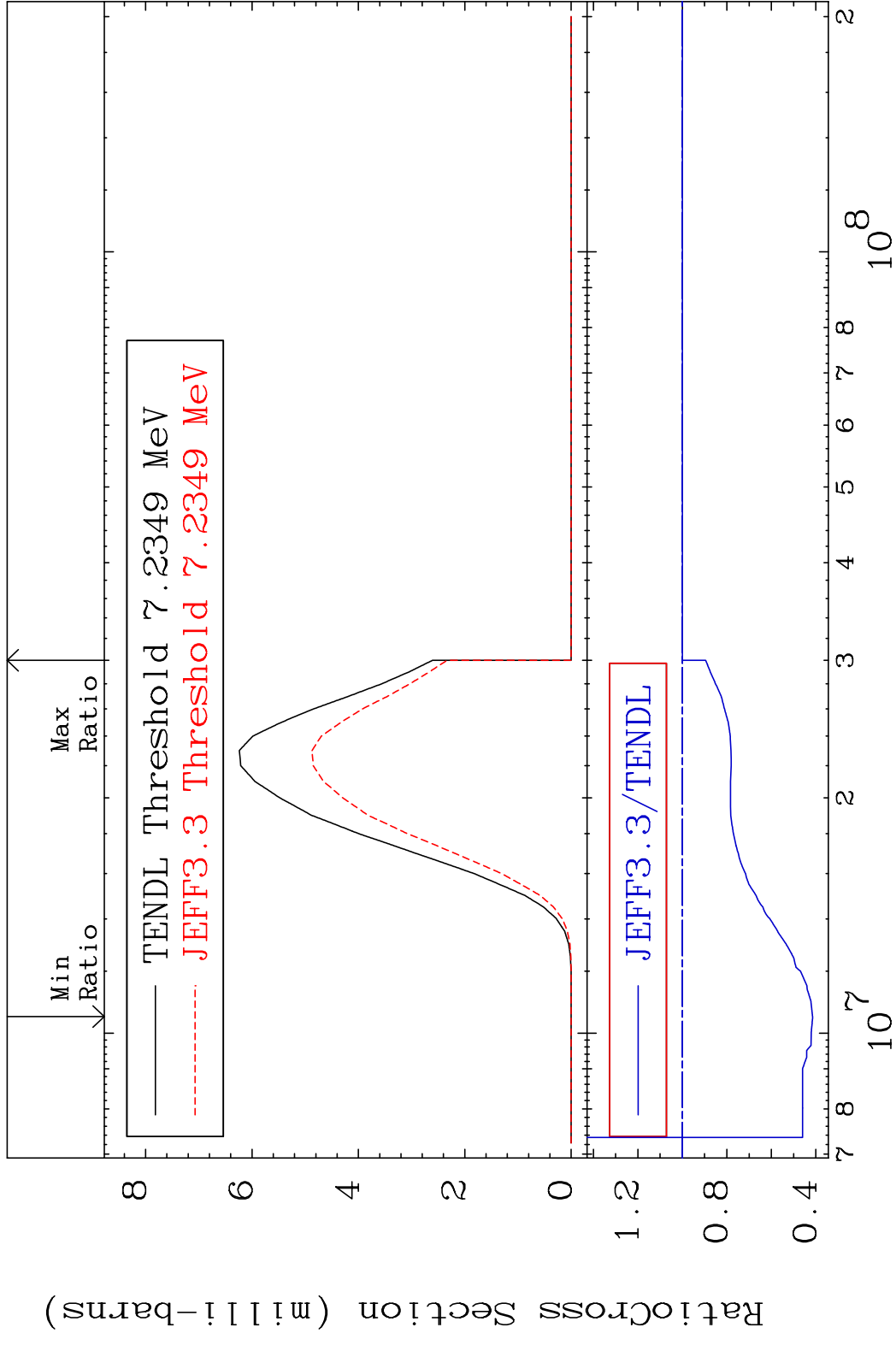


MAT 3119

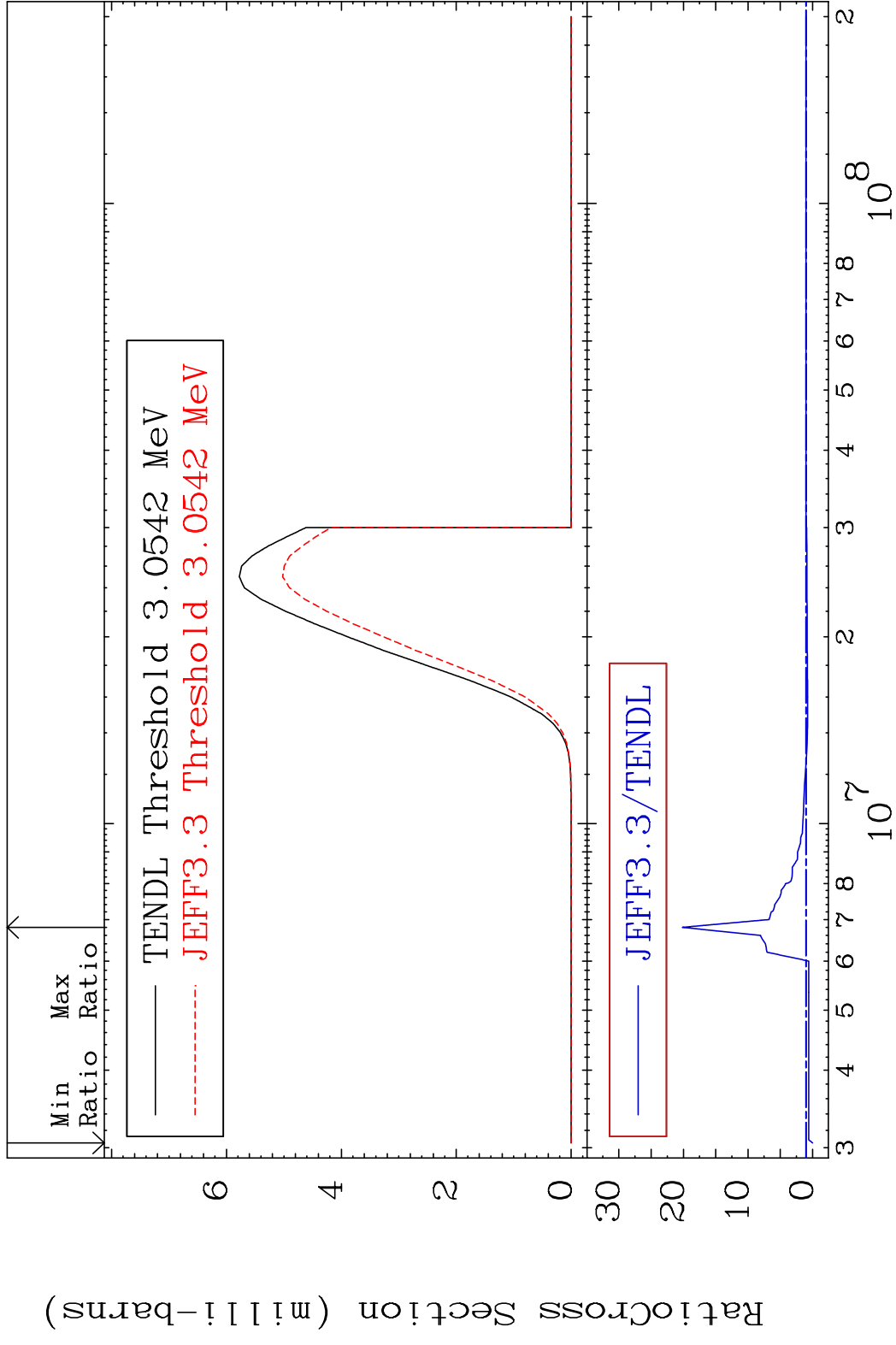
(n,2p)

31-Ga-67

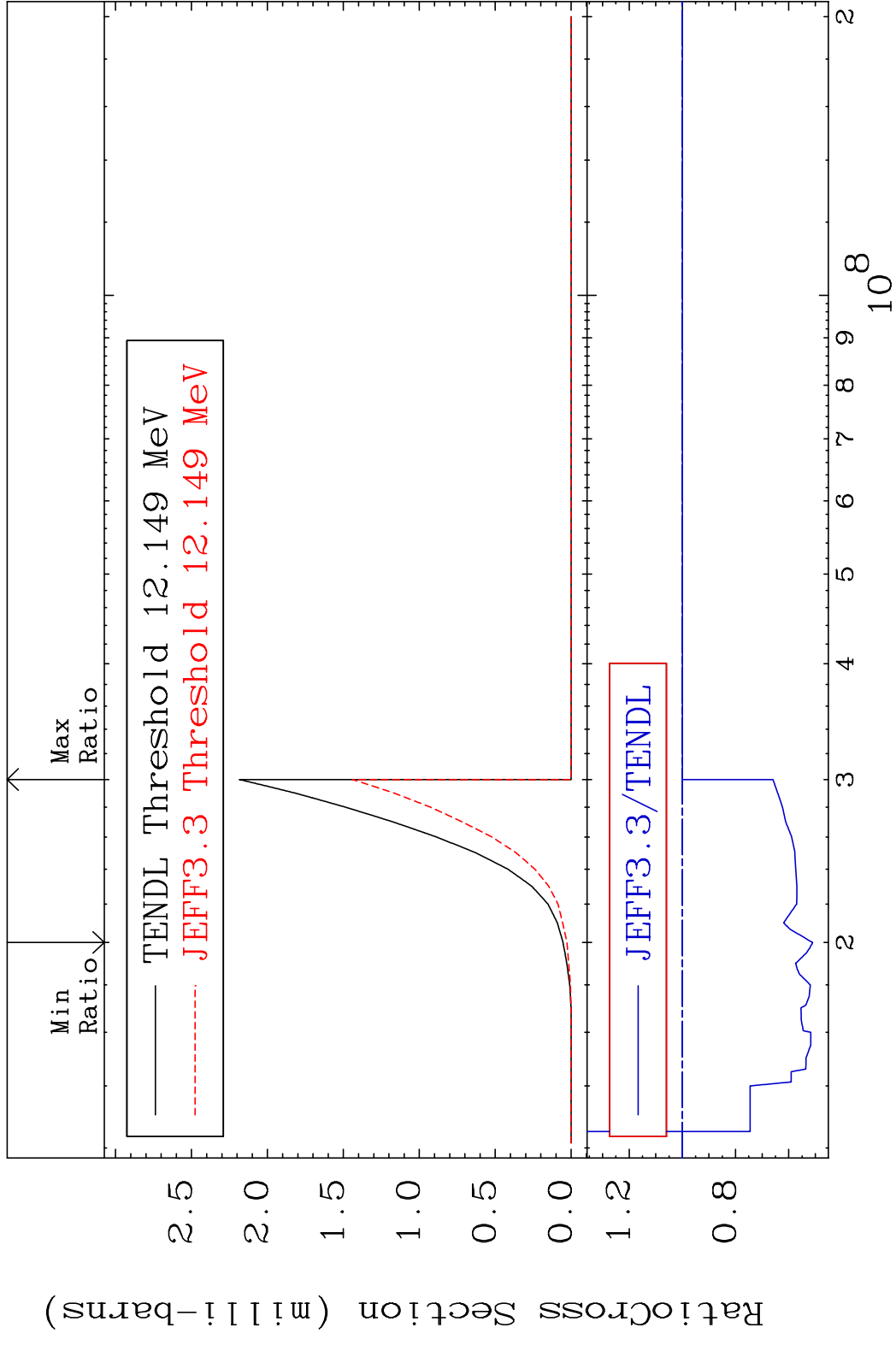
Cross Section -58.51 To 0.000 %



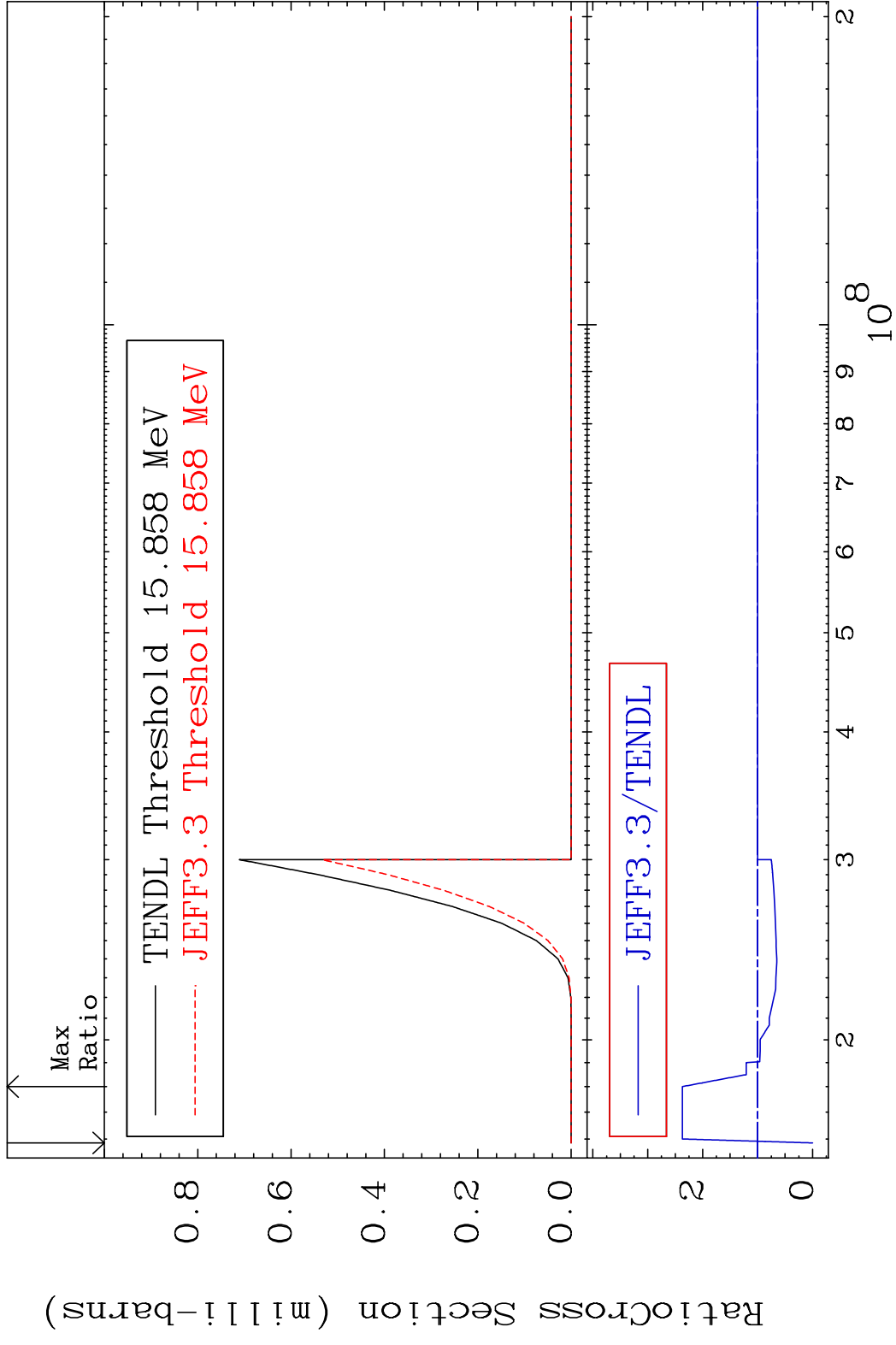
MAT 3119 (n,p) α 31-Ga-67
 Cross Section -100.0 To 1917. %



MAT 3119 (n,p) d 31-Ga-67
 Cross Section -48.96 To 0.000 %



MAT 3119 (n,p) t 31-Ga-67
 Cross Section -100.0 To 137.0 %

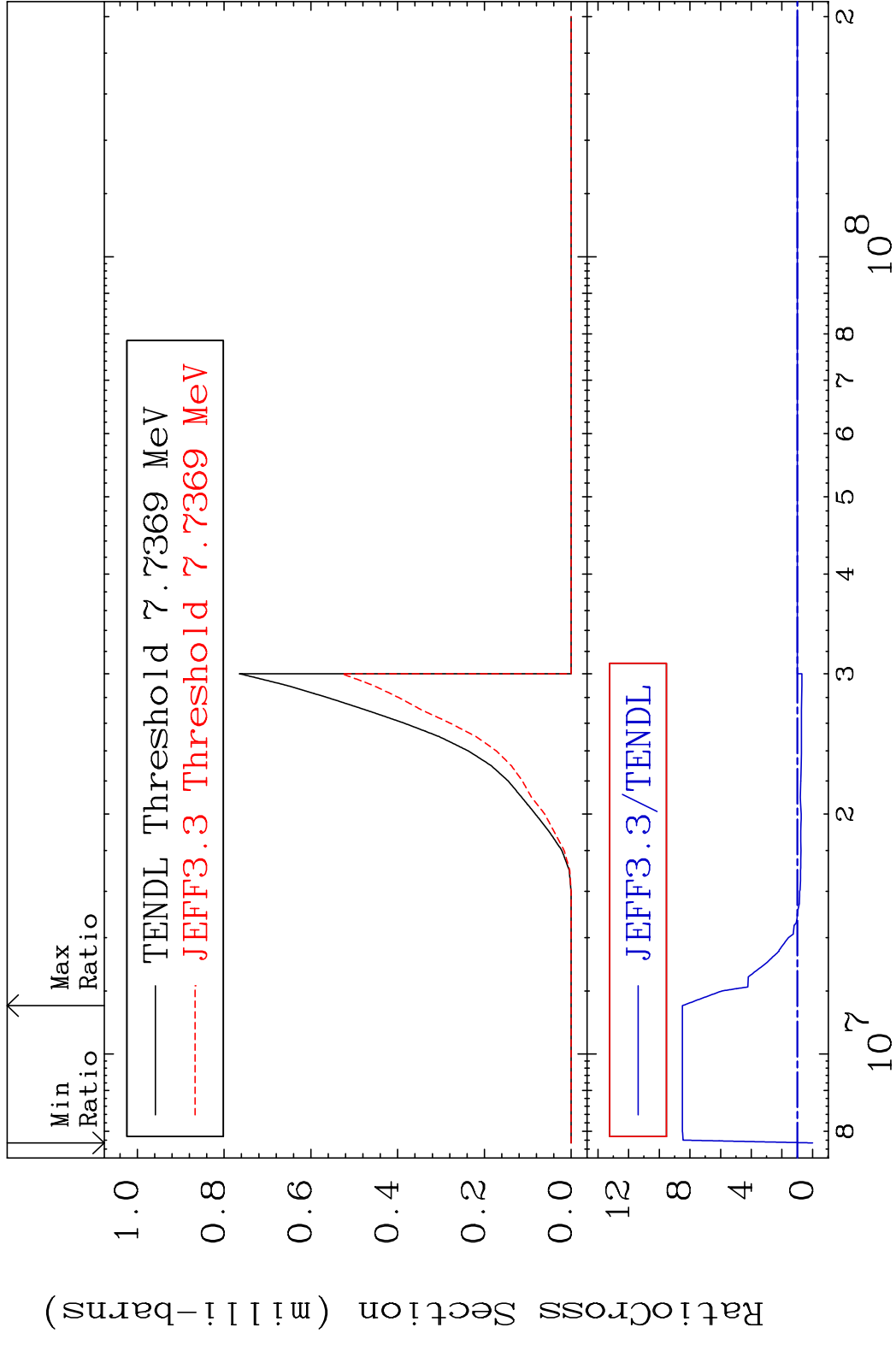


MAT 3119

(n,d) α

31-Ga-67

Cross Section -100.0 To 749.5 %

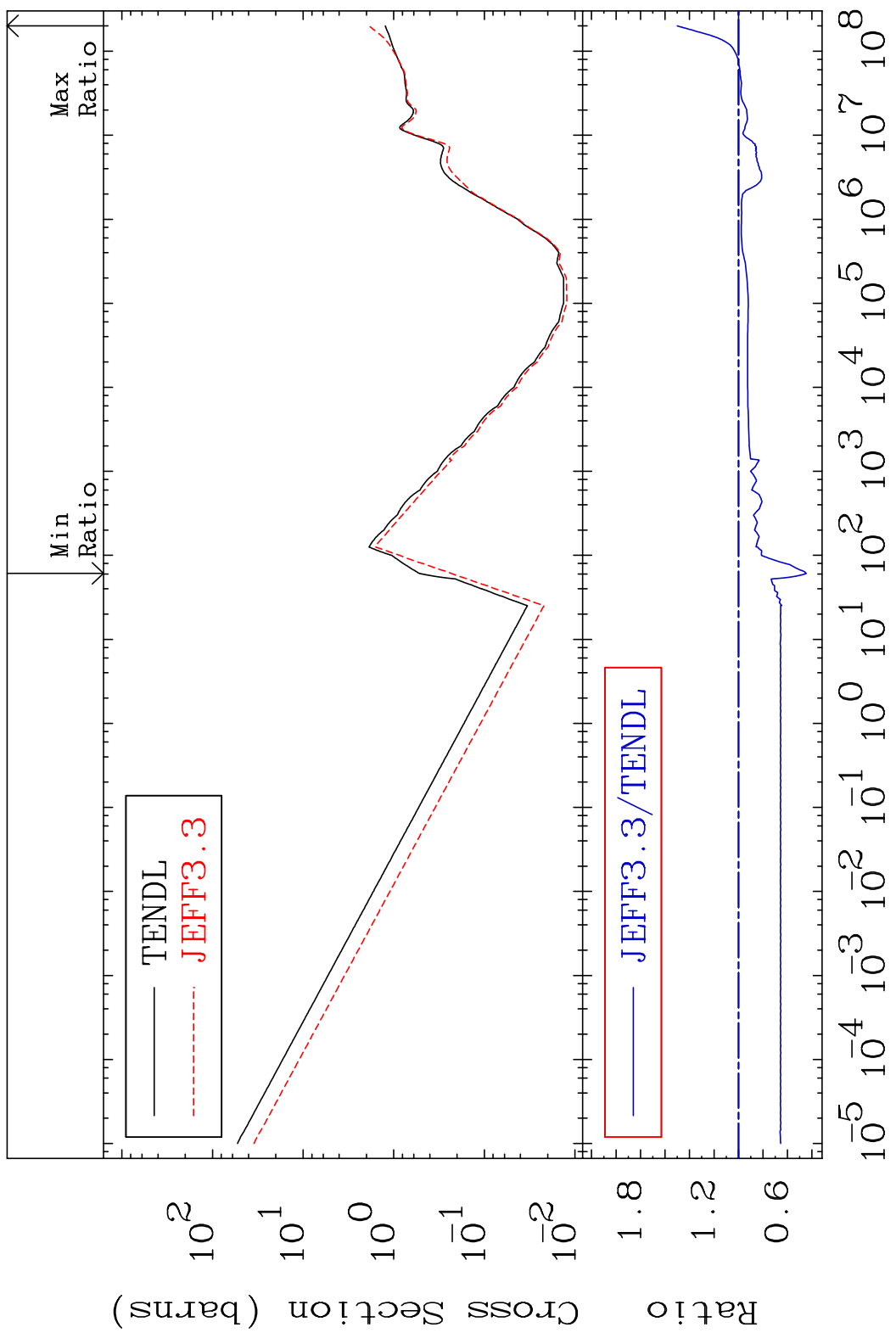


MAT 3119

Hydrogen Production

31-Ga-67

Cross Section -55.44 To 50.07 %



60

Incident Energy (eV)

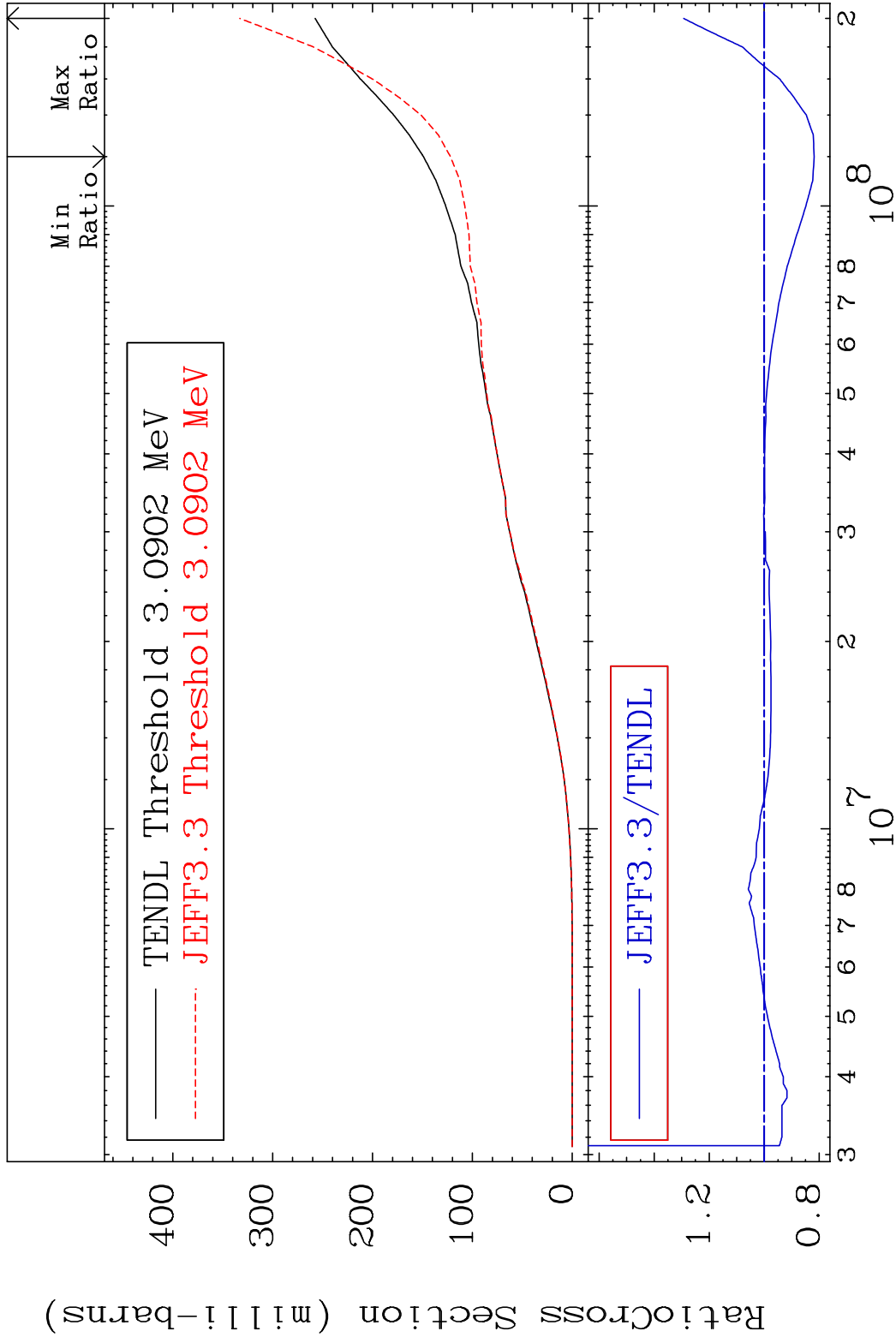
31-Ga-67

MAT 3119

Deuterium Production

31-Ga-67

Cross Section -18.13 To 29.28 %



61

Incident Energy (eV)

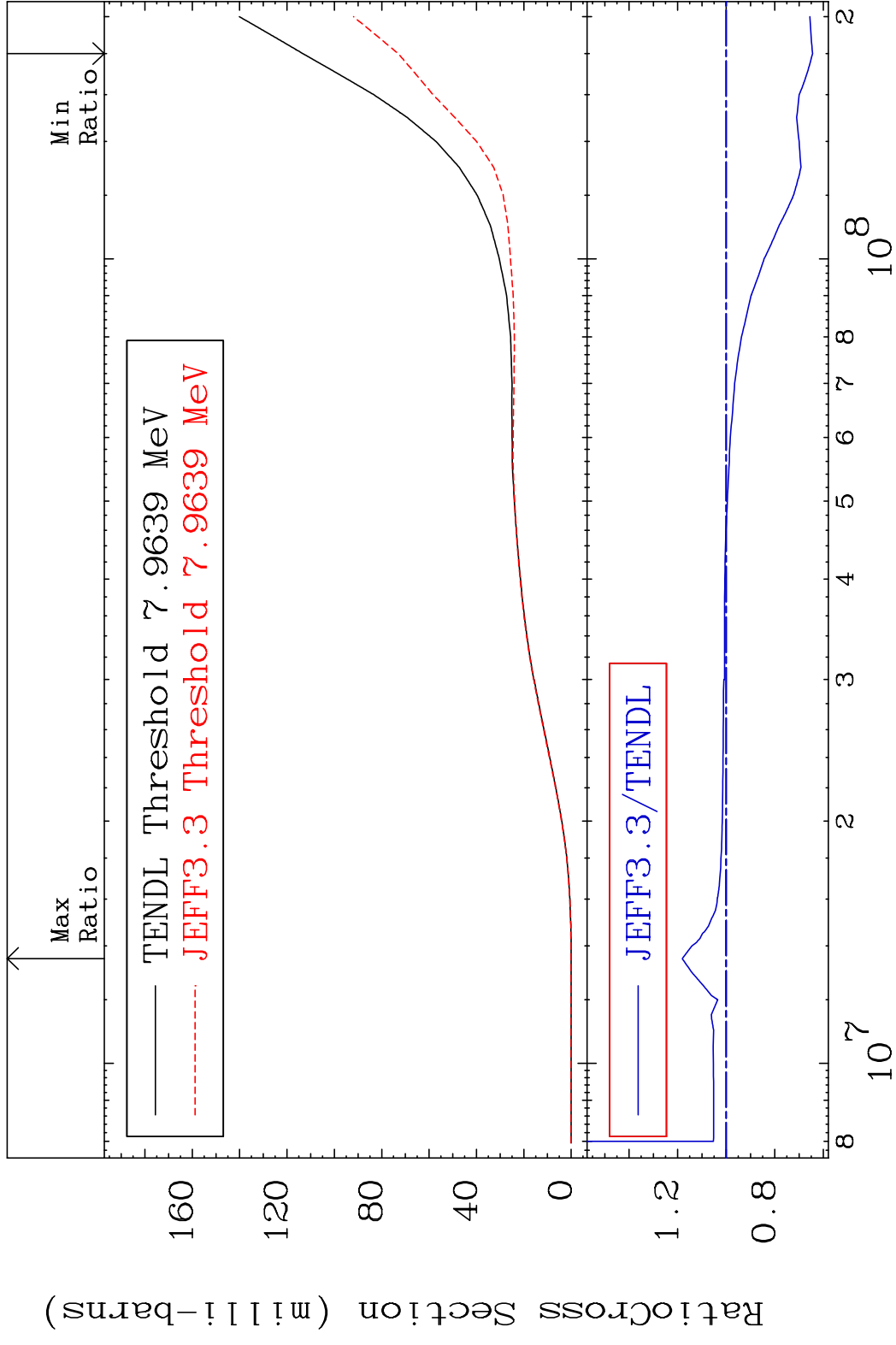
31-Ga-67

MAT 3119

Tritium Production

31-Ga-67

Cross Section -35.54 To 18.05 %



62

Incident Energy (eV)

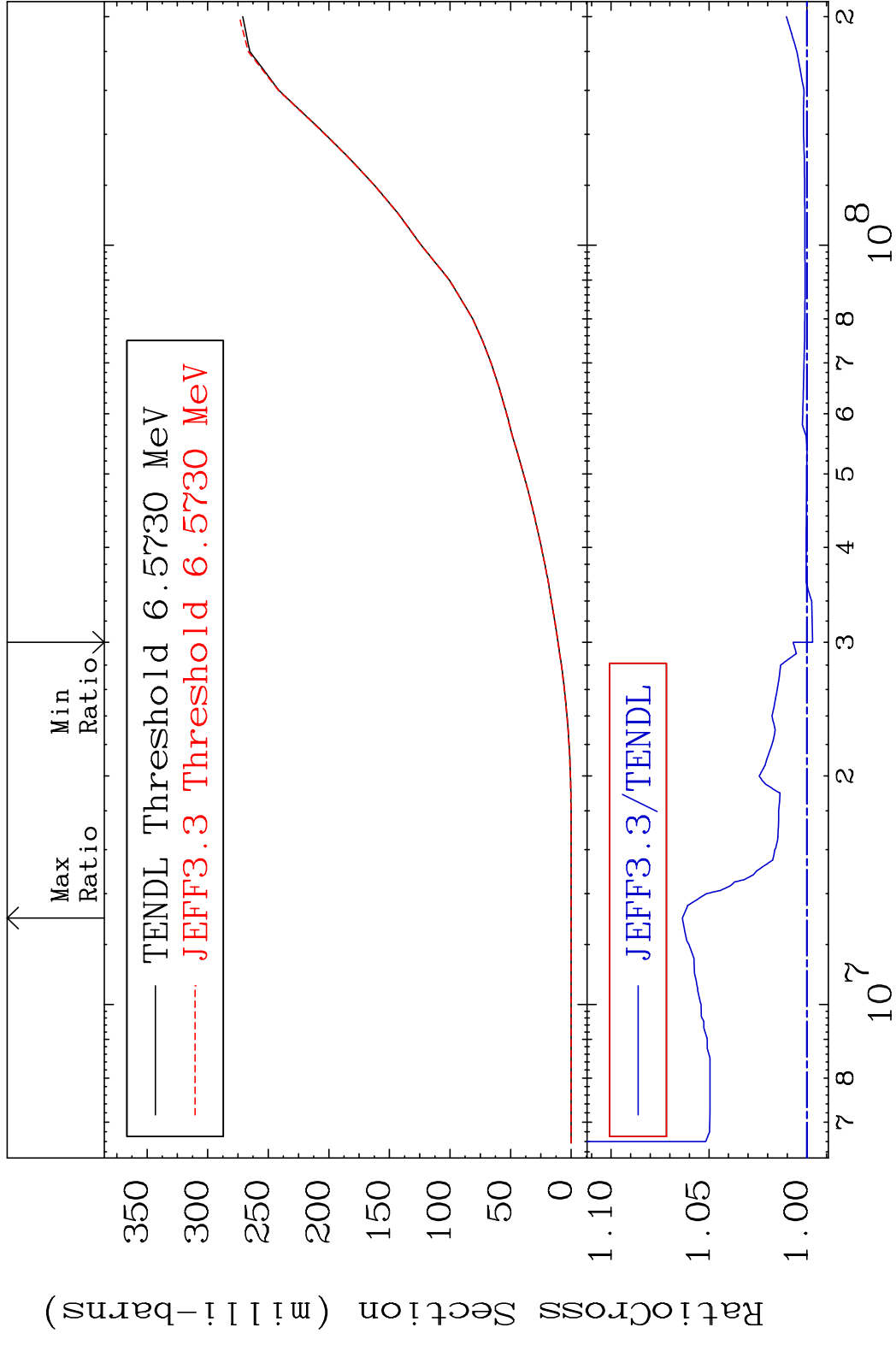
31-Ga-67

MAT 3119

He-3 Production

31-Ga-67

Cross Section -0.290 To 6.360 %



63

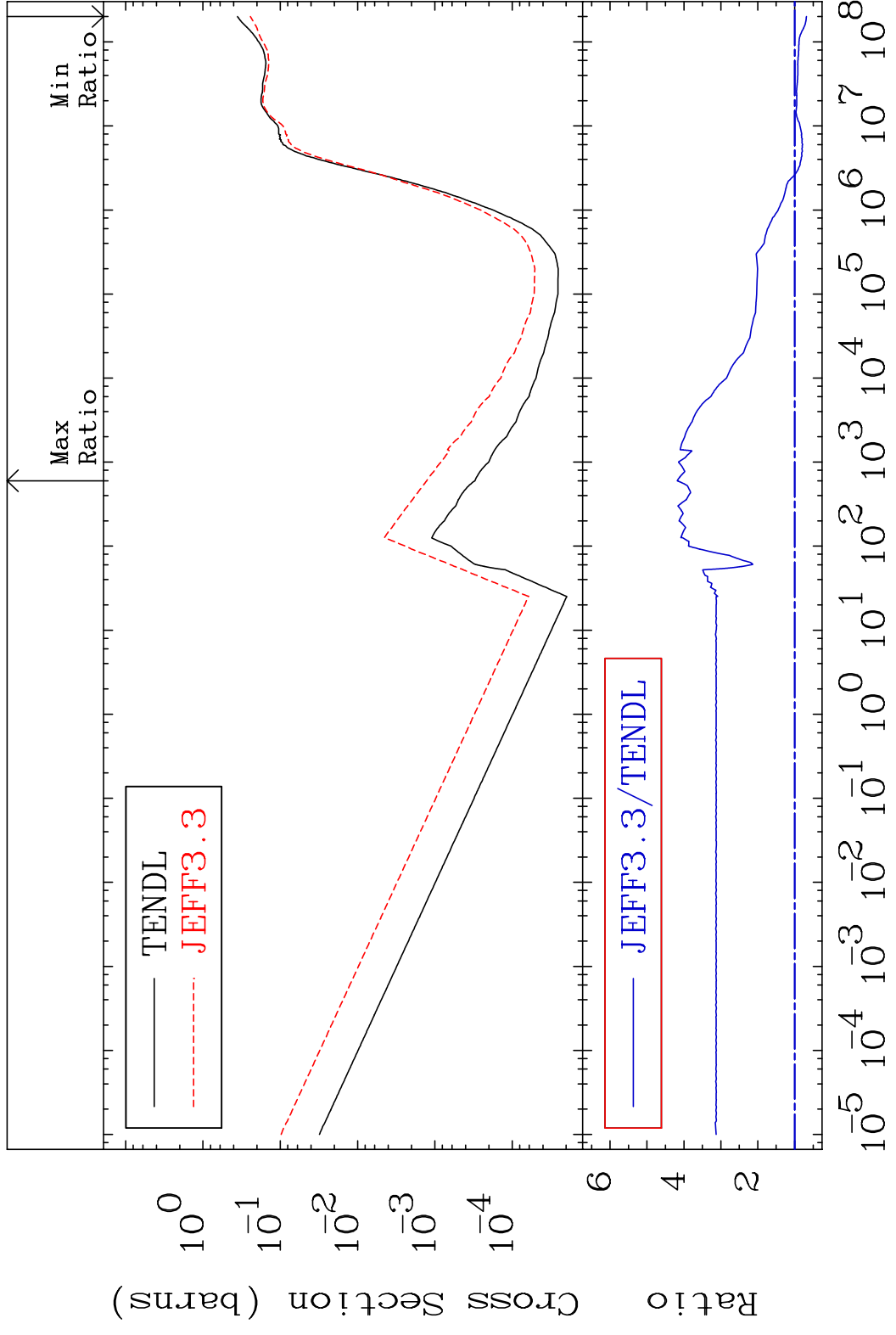
Incident Energy (eV)

31-Ga-67

MAT 3119

He-4 Production
Cross Section

31-Ga-67
-31.70 To 318.3 %

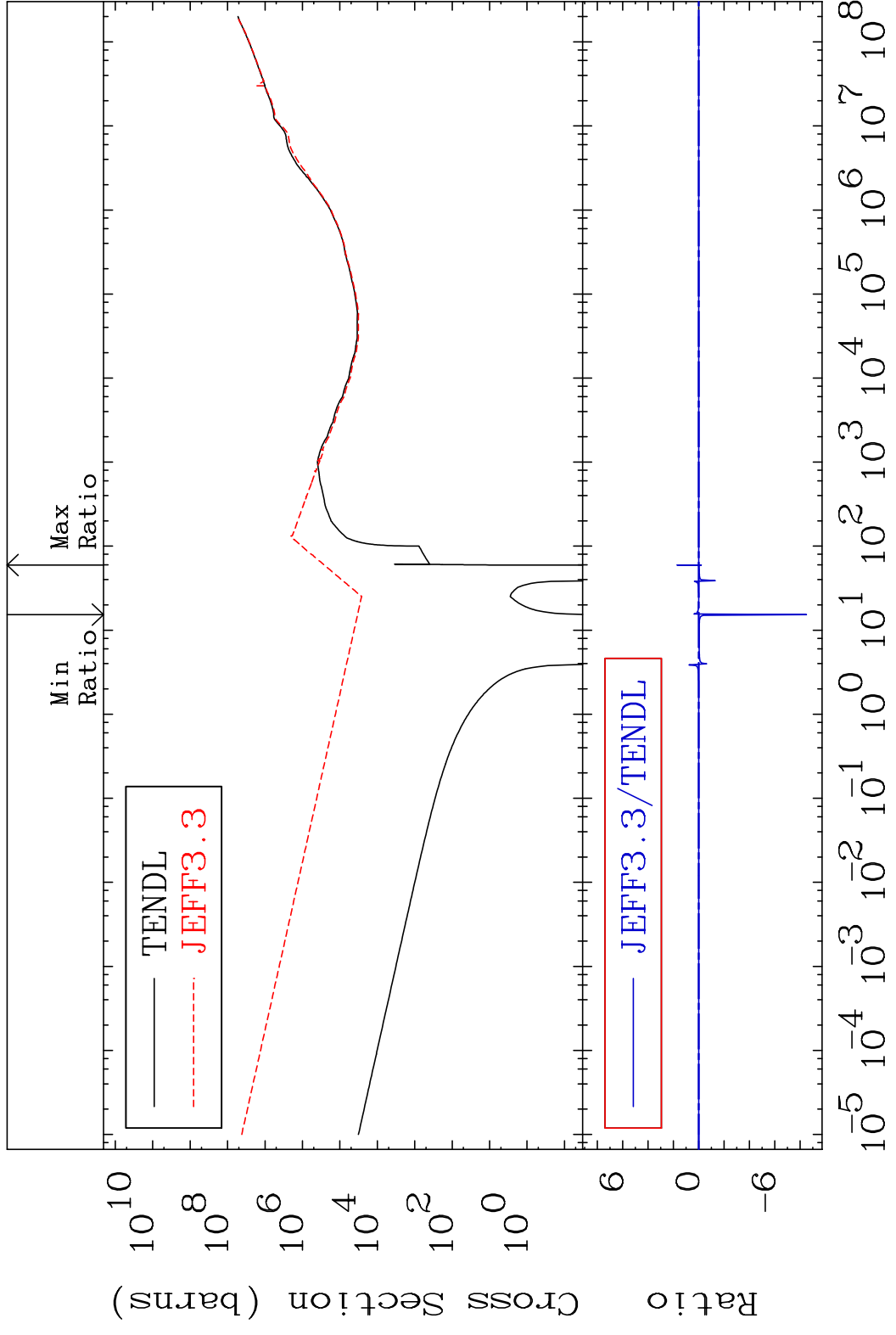


64

Incident Energy (eV)

31-Ga-67

MAT 3119 Kerma total (eV-barns) 31-Ga-67
 Cross Section -9999. To 9999. %

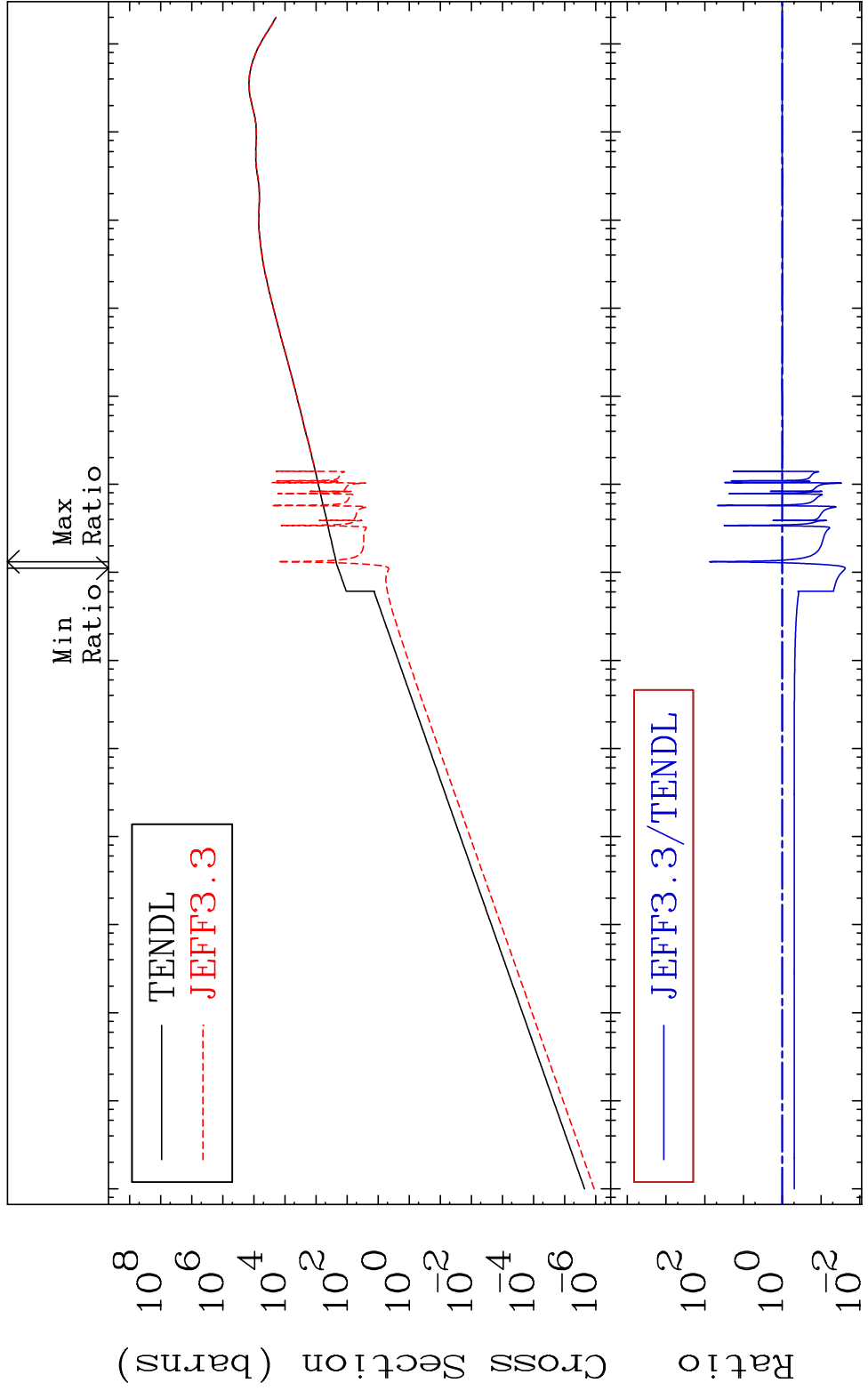


65 Incident Energy (eV) 31-Ga-67

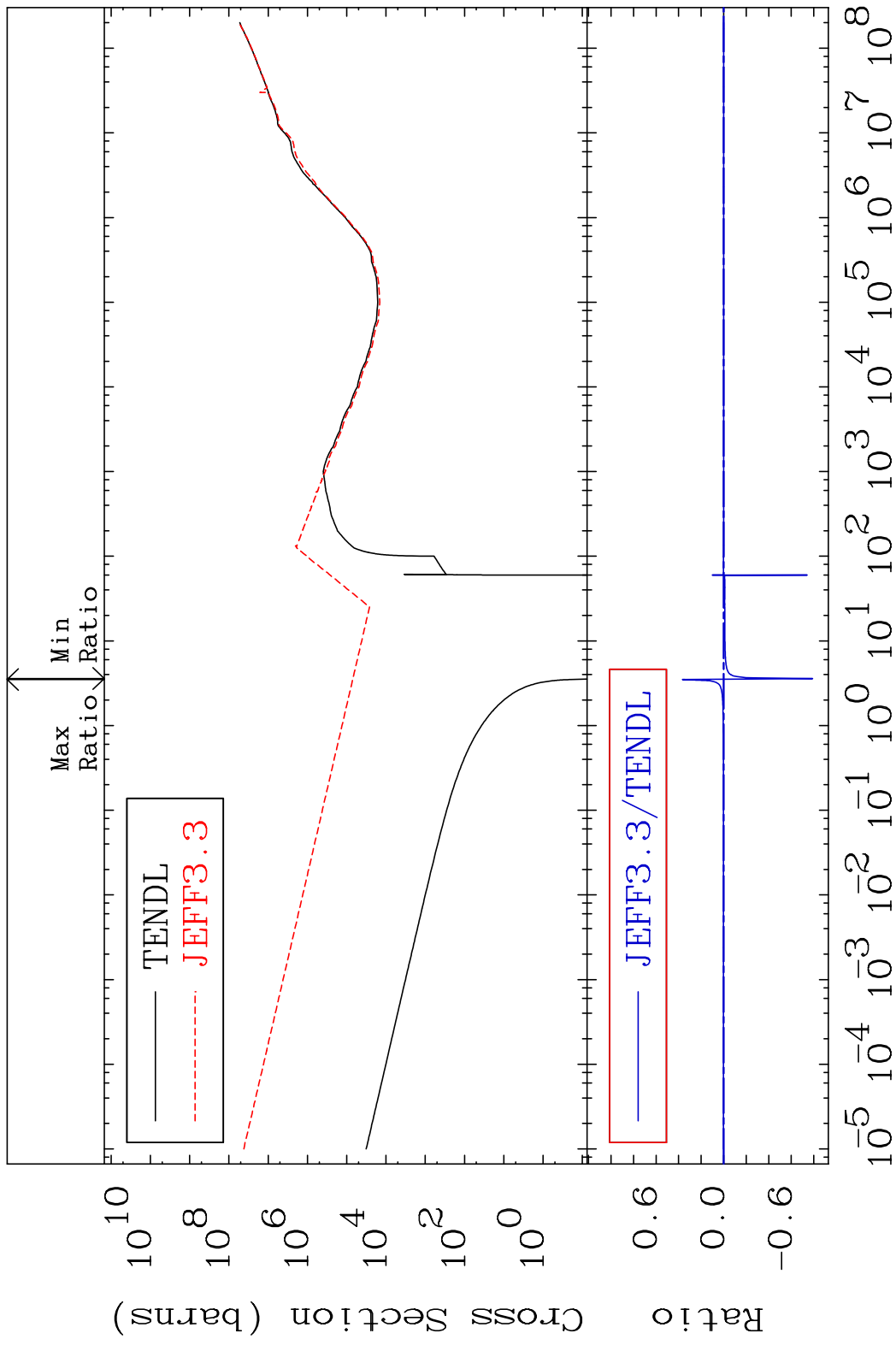
MAT 3119

Kerma elastic
Cross Section

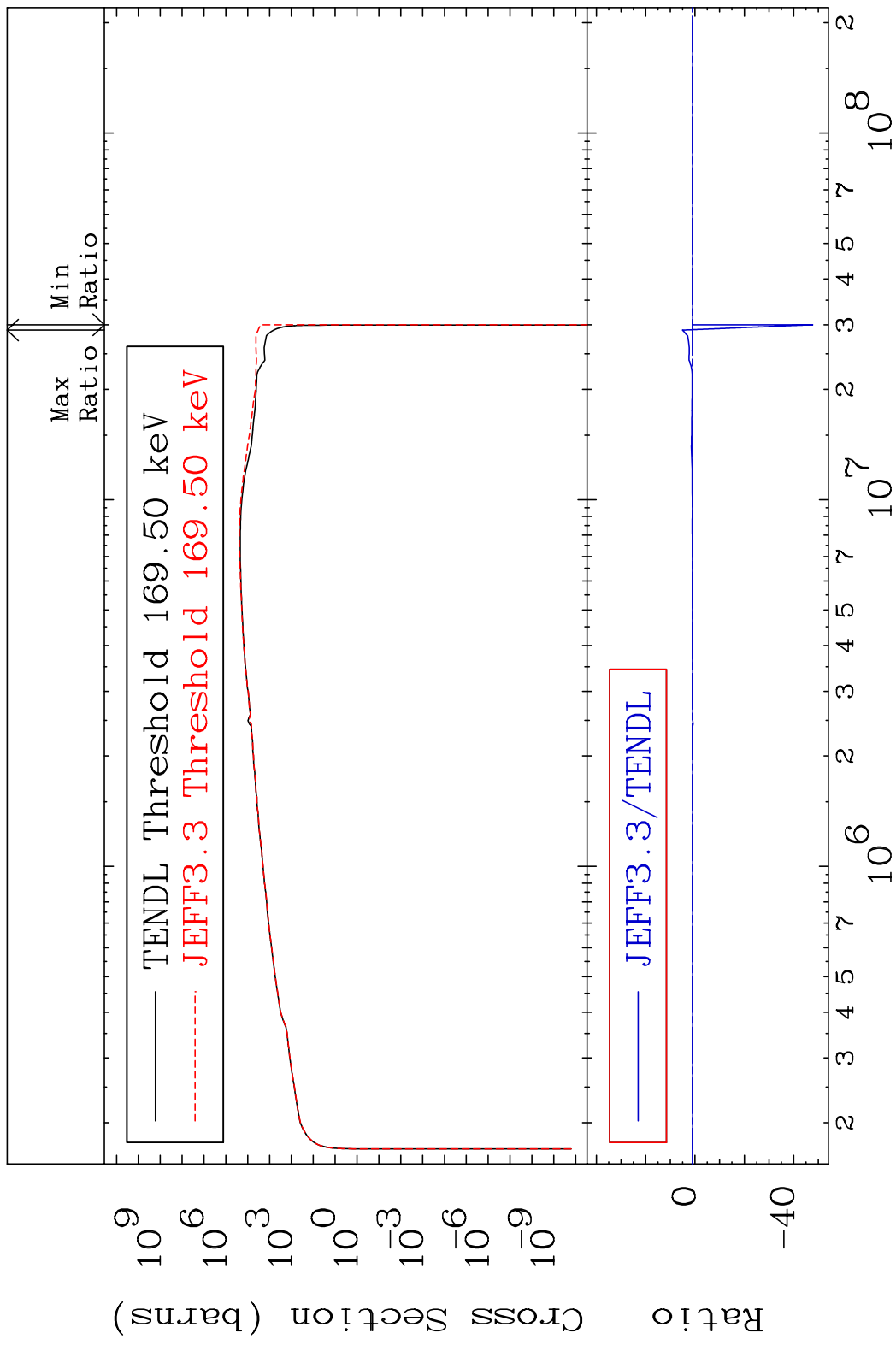
31-Ga-67
-97.63 To 7324. %



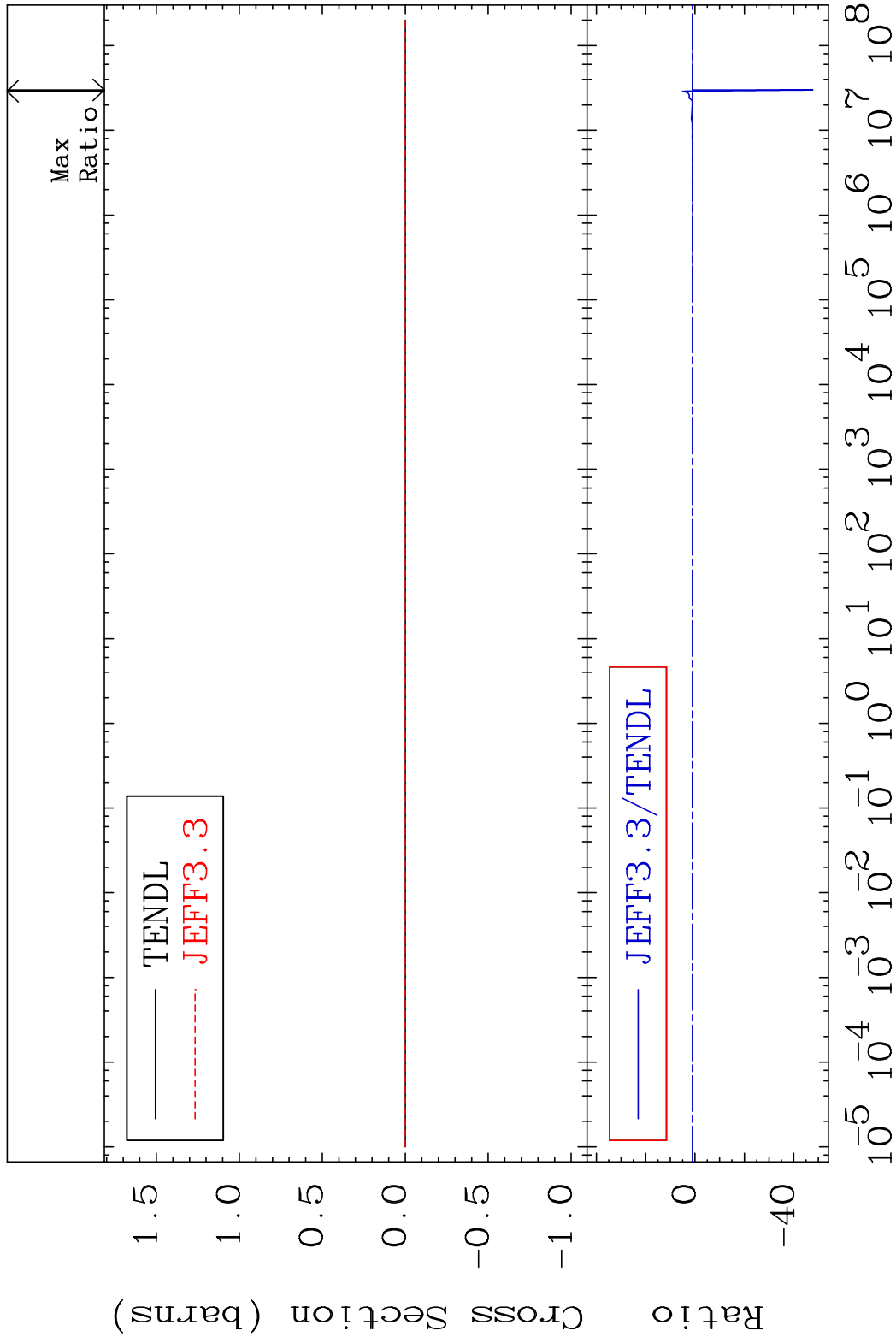
MAT 3119 Kerma non-elastic (all but mt2) 31-Ga-67
 Cross Section -9999. To 9999. %



MAT 3119 Kerma inelastic (mt51-91) 31-Ga-67
 Cross Section -4869. To 413.9 %



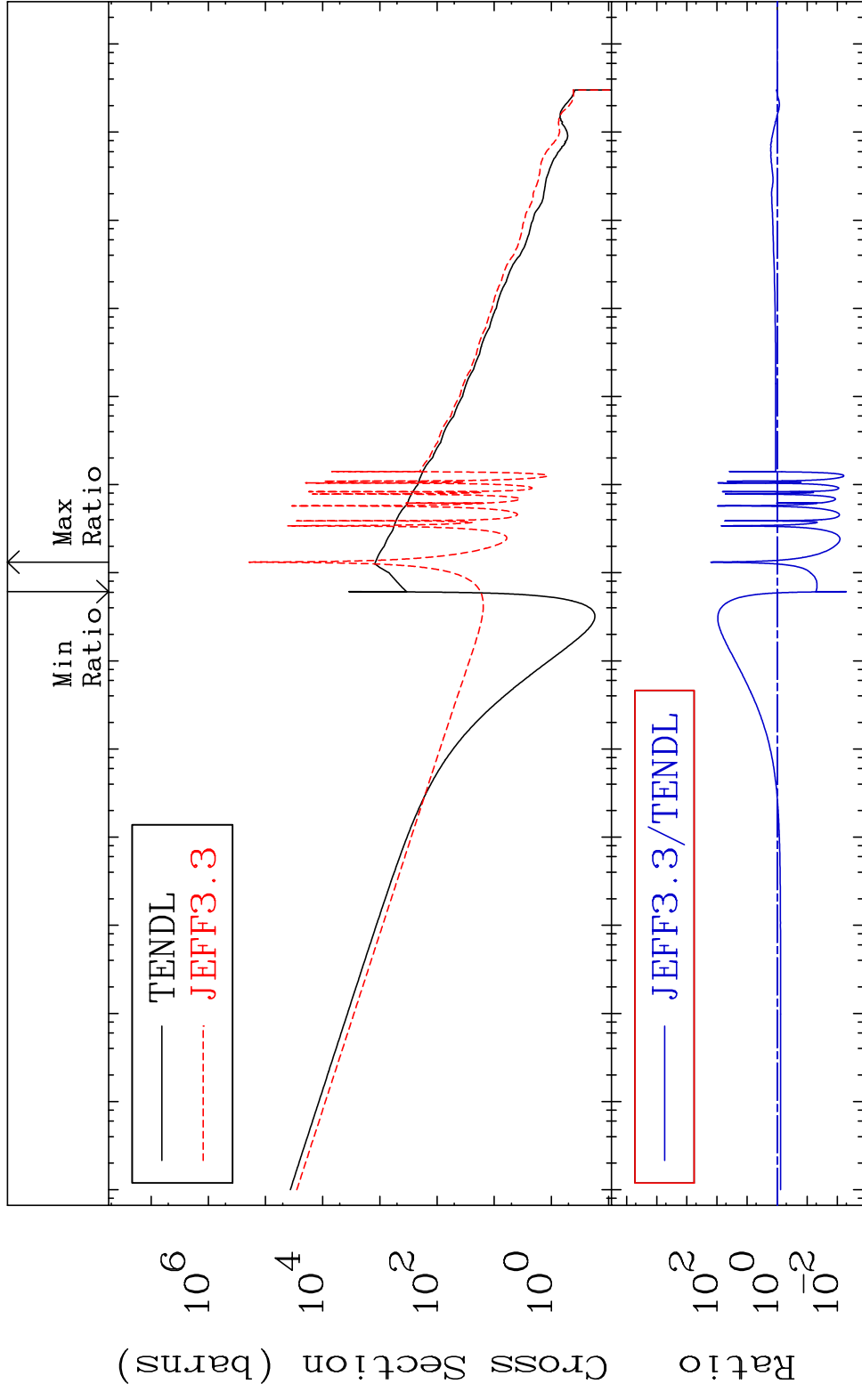
MAT 3119 Kerma fission (mt18 or mt19-20-21-38) 31-Ga-67
 Cross Section -4869. To 413.9 %



MAT 3119

Kerma capture (mt102) 31-Ga-67

Cross Section -99.50 To 9999. %



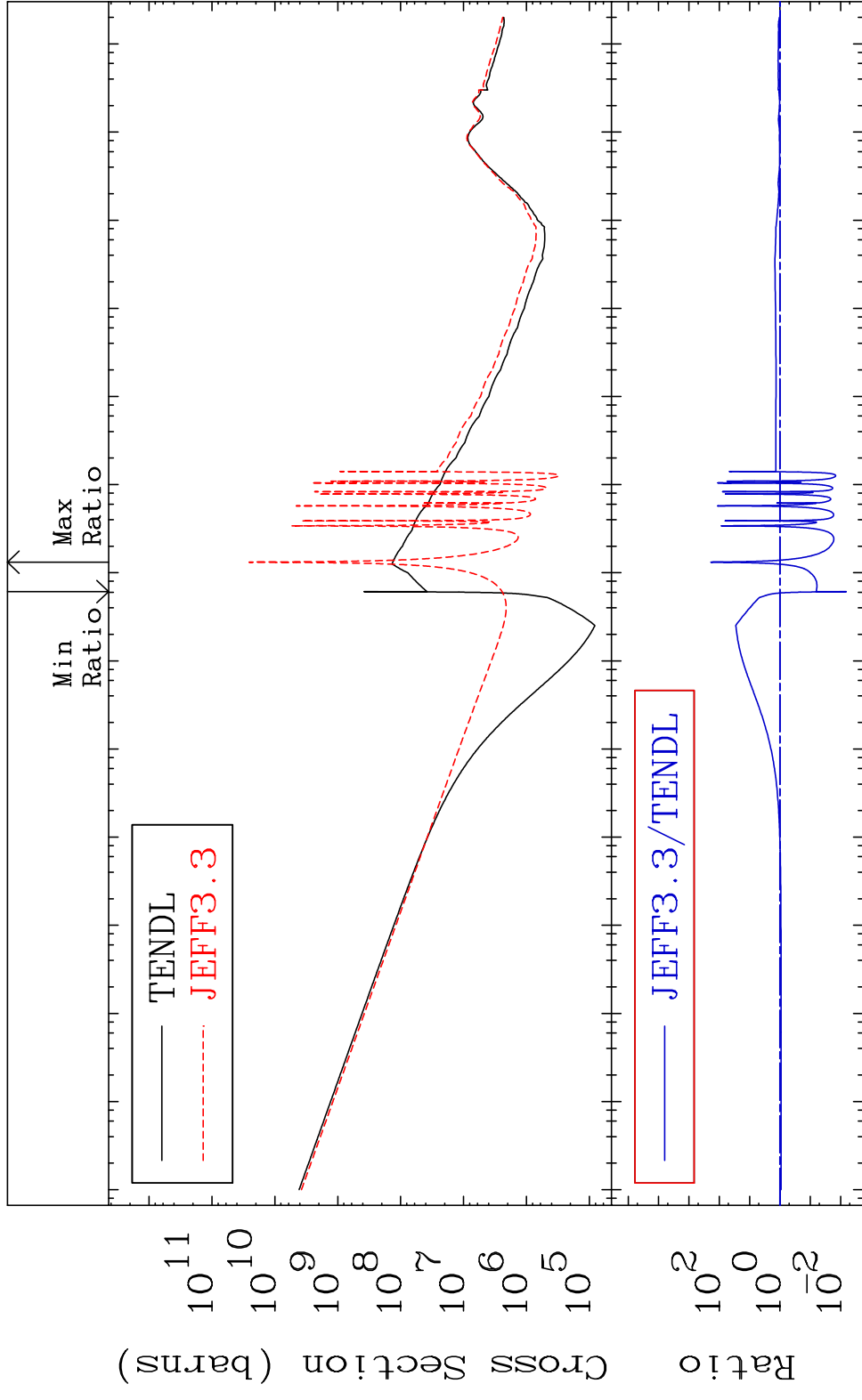
Ratio
10⁶
10⁴
10²
10⁰
10⁻²
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

70

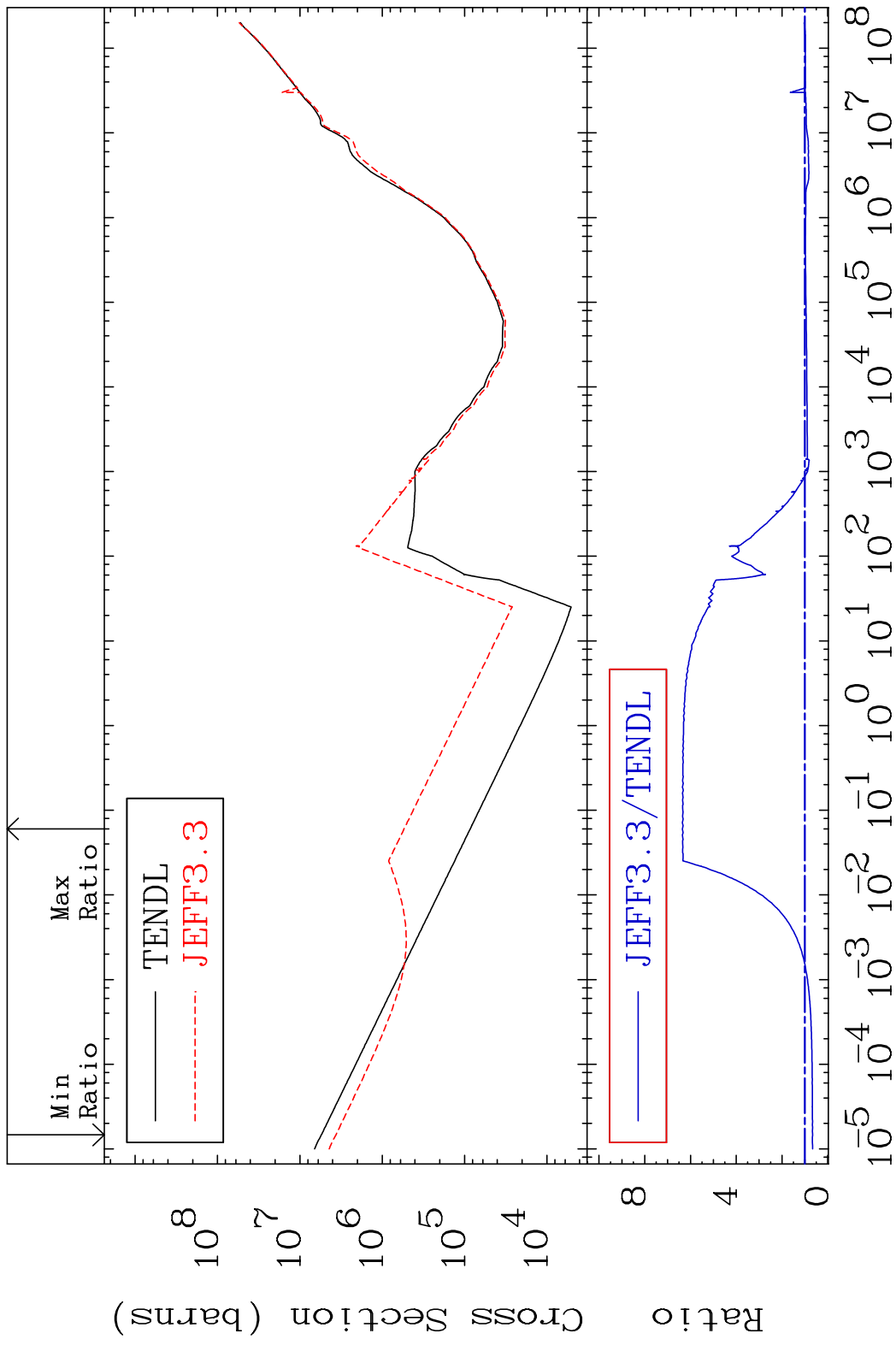
Incident Energy (eV)

31-Ga-67

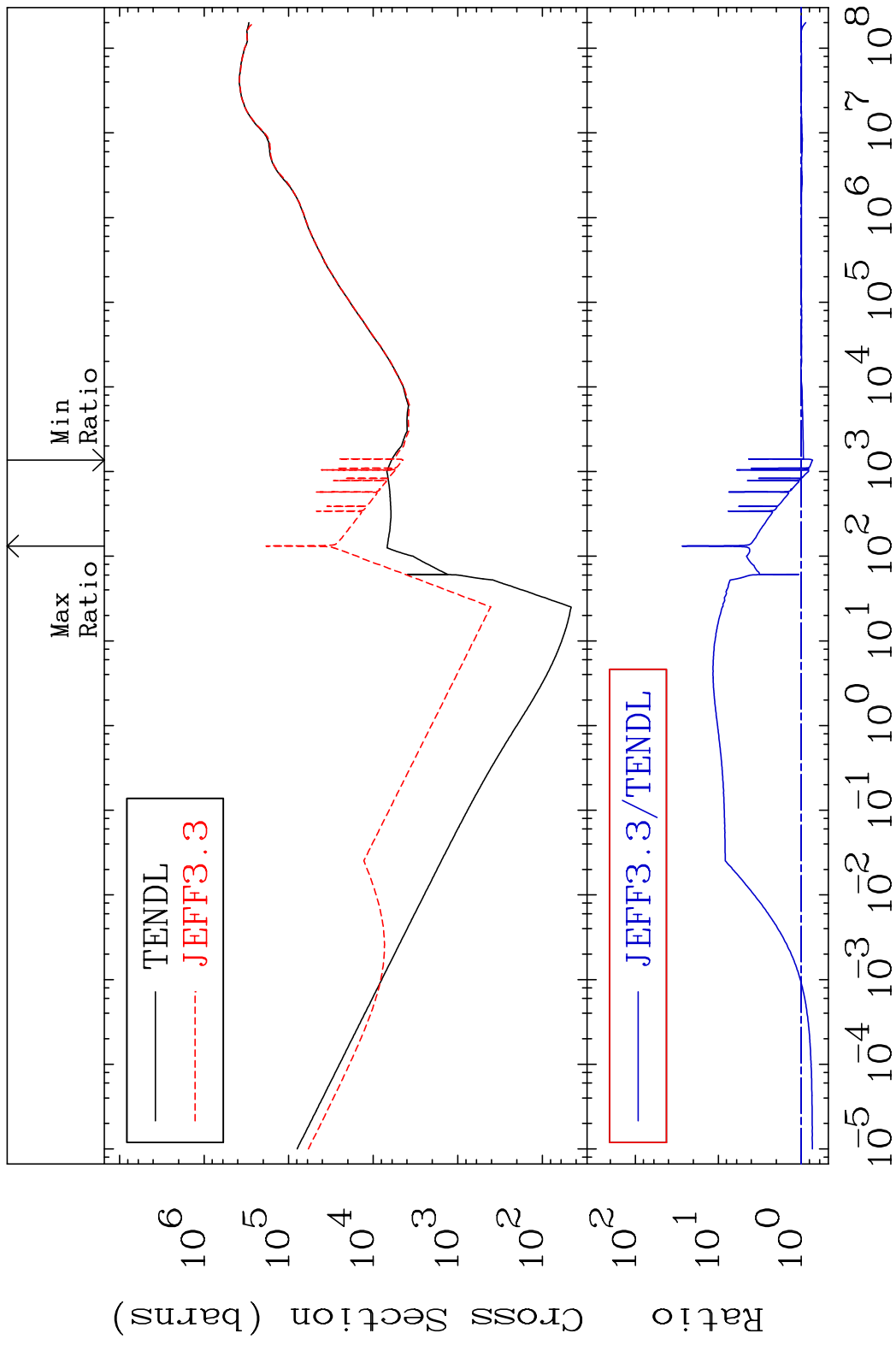
MAT 3119 Total photon (eV-barns) 31-Ga-67
 Cross Section -99.35 To 9999. %



MAT 3119 Total kinematic kerma (high limit) 31-Ga-67
 Cross Section -33.58 To 535.6 %



MAT 3119 Dpa total (eV-barns) 31-Ga-67
 Cross Section -26.87 To 2615. %



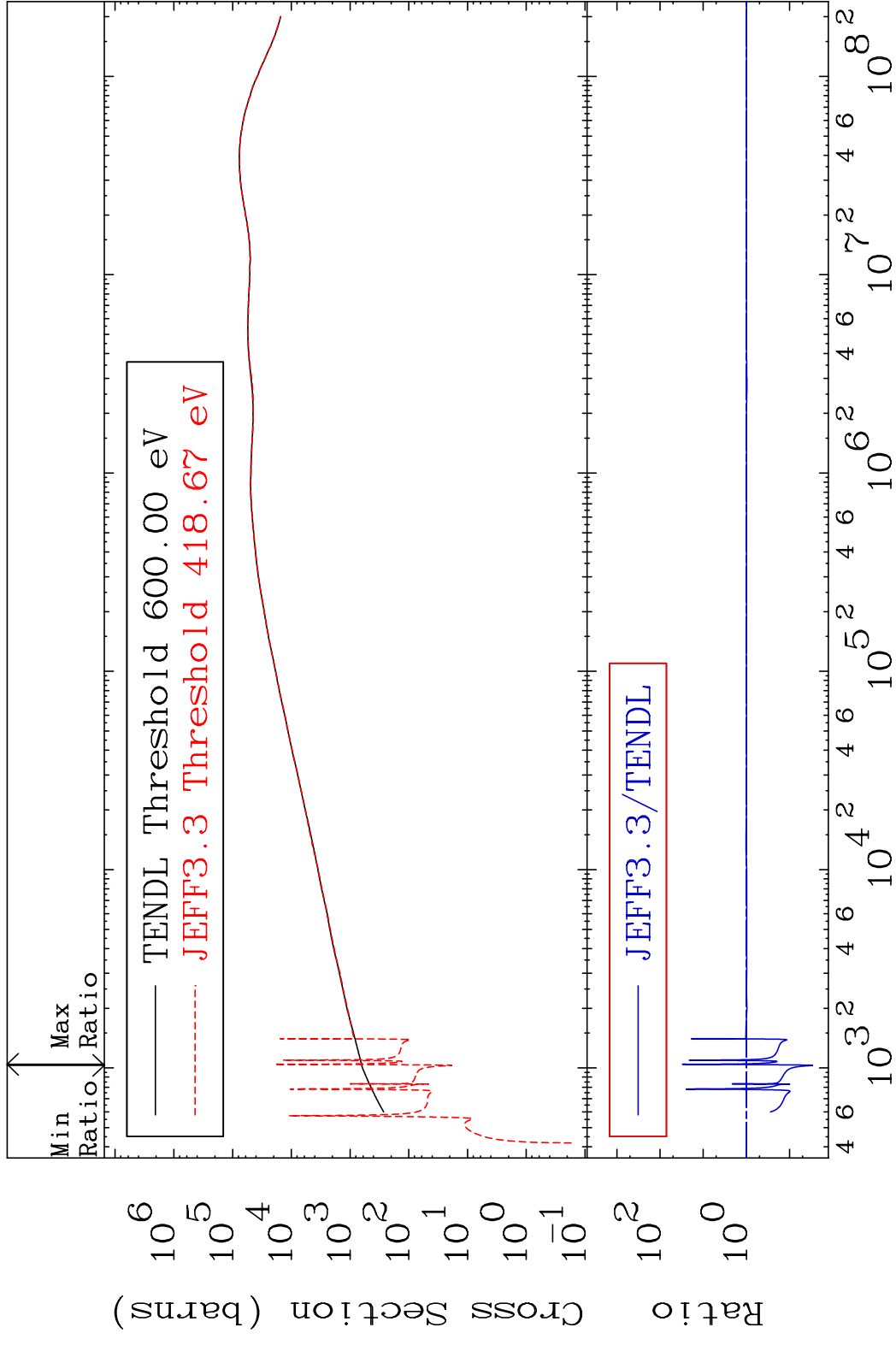
73 Incident Energy (eV) 31-Ga-67

MAT 3119

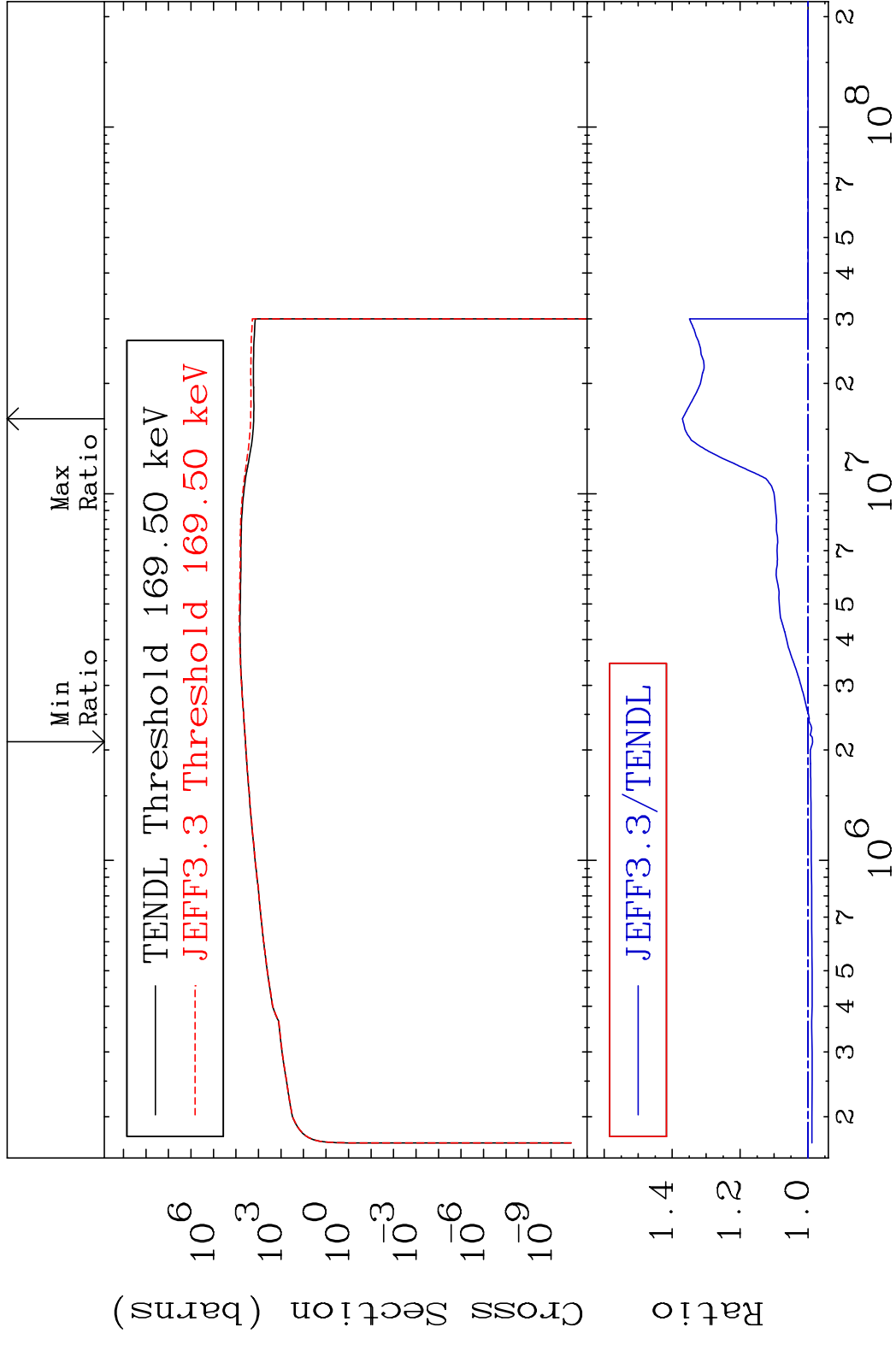
Dpa elastic (mt2)

31-Ga-67

Cross Section -97.06 To 2943. %



MAT 3119 Dpa inelastic (mt51-91) 31-Ga-67
 Cross Section -1.334 To 37.00 %



MAT 3119 Dpa disappearance (mt102 -120) 31-Ga-67
 Cross Section -26.51 To 2615. %

