

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

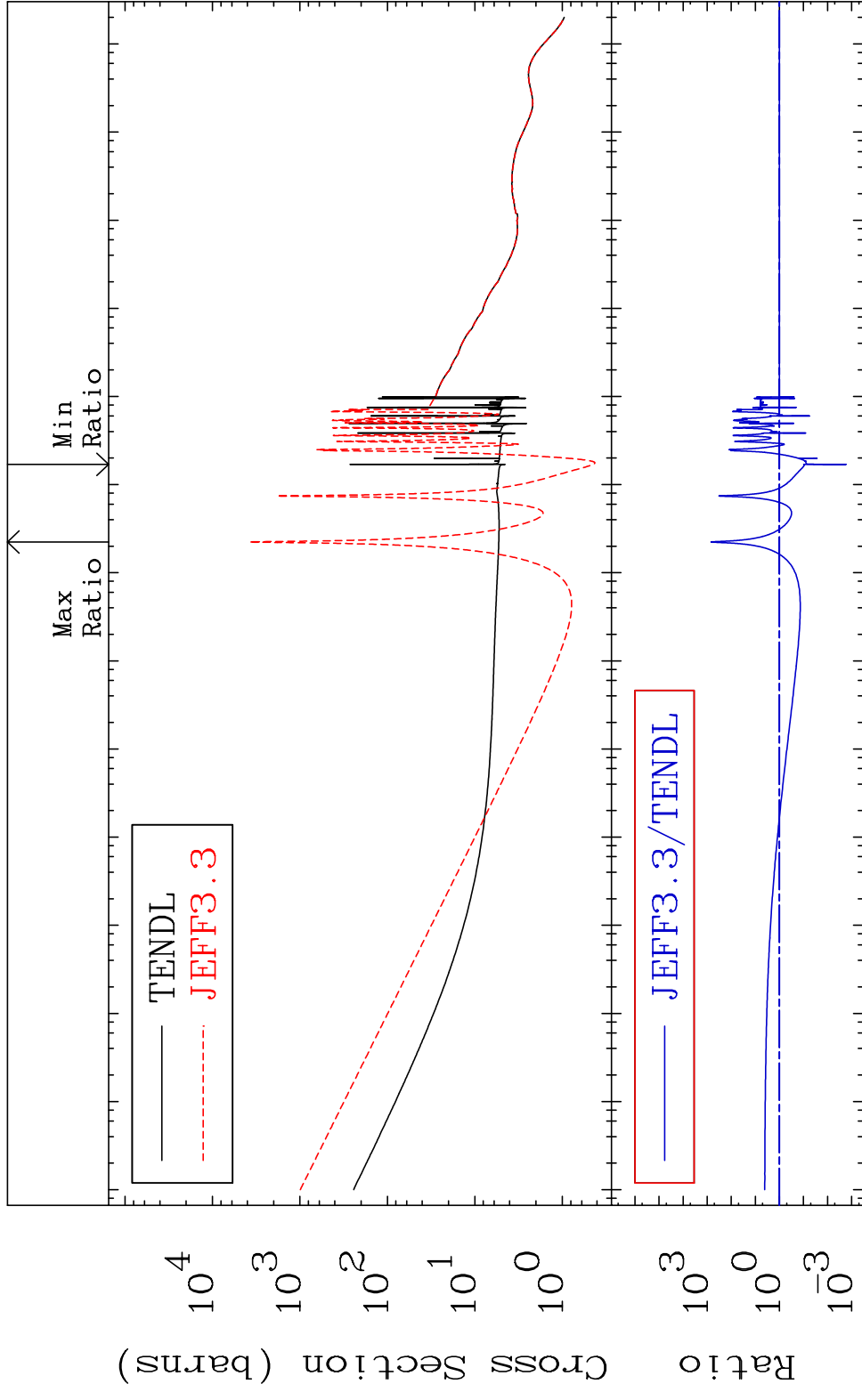
Press Mouse Button to Start

MAT 2322

23-V -49

Total

Cross Section -99.83 To 9999. %



1

Incident Energy (eV)

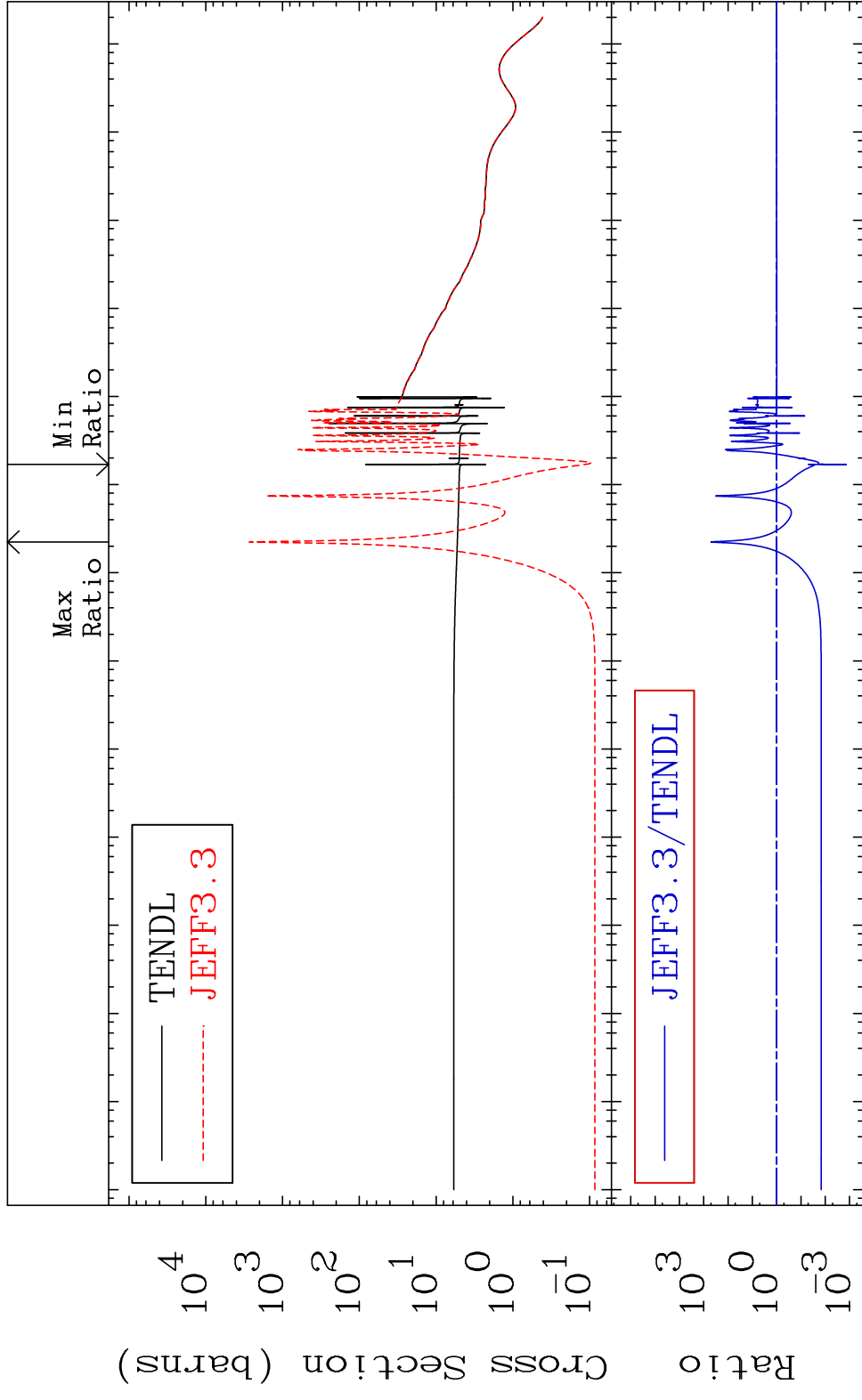
23-V -49

MAT 2322

23-V -49

Elastic

Cross Section -99.86 To 9999. %



2

Incident Energy (eV)

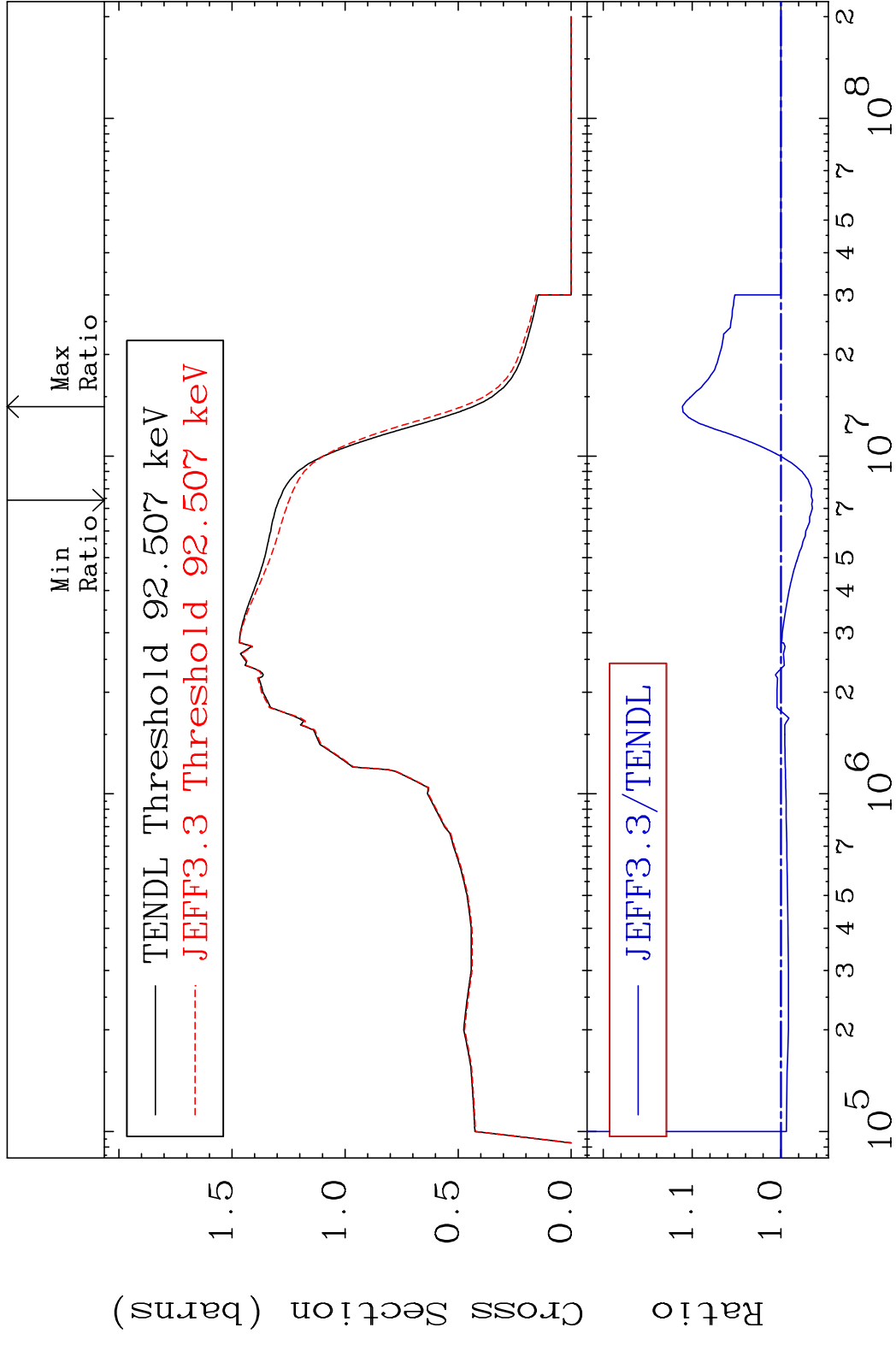
23-V -49

MAT 2322

Inelastic

23-V -49

Cross Section -3.551 To 11.10 %

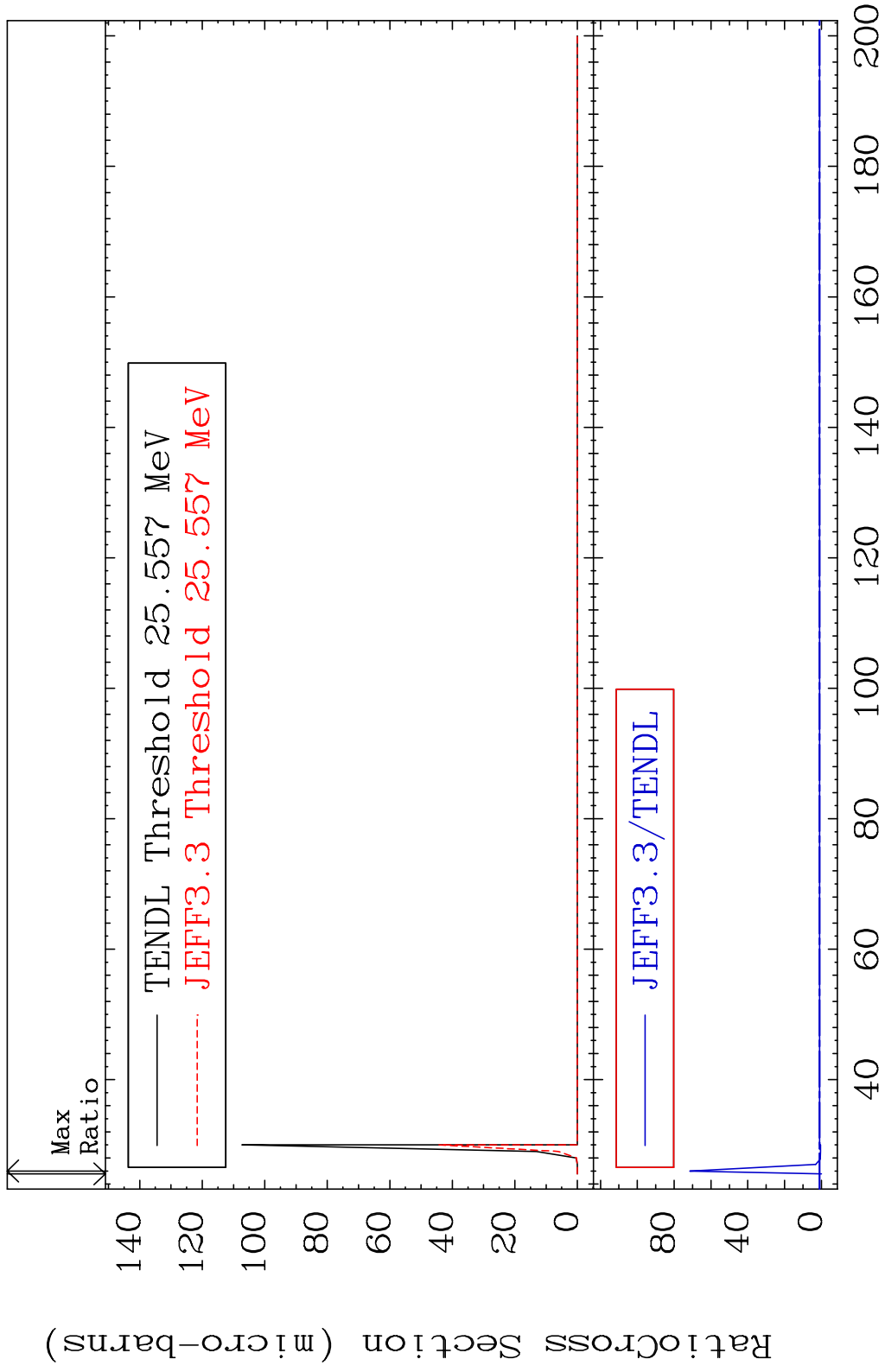


3

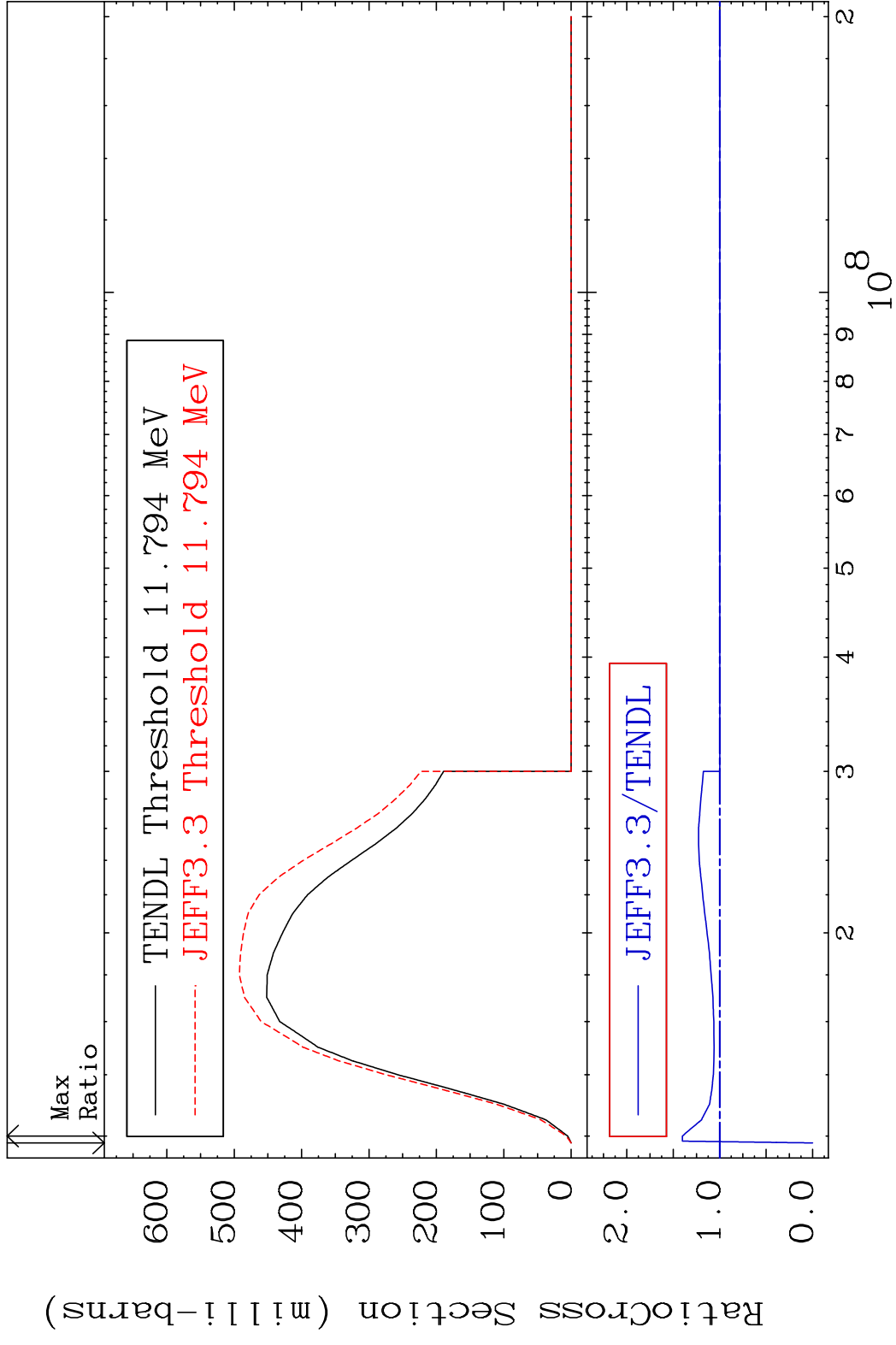
Incident Energy (eV)

23-V -49

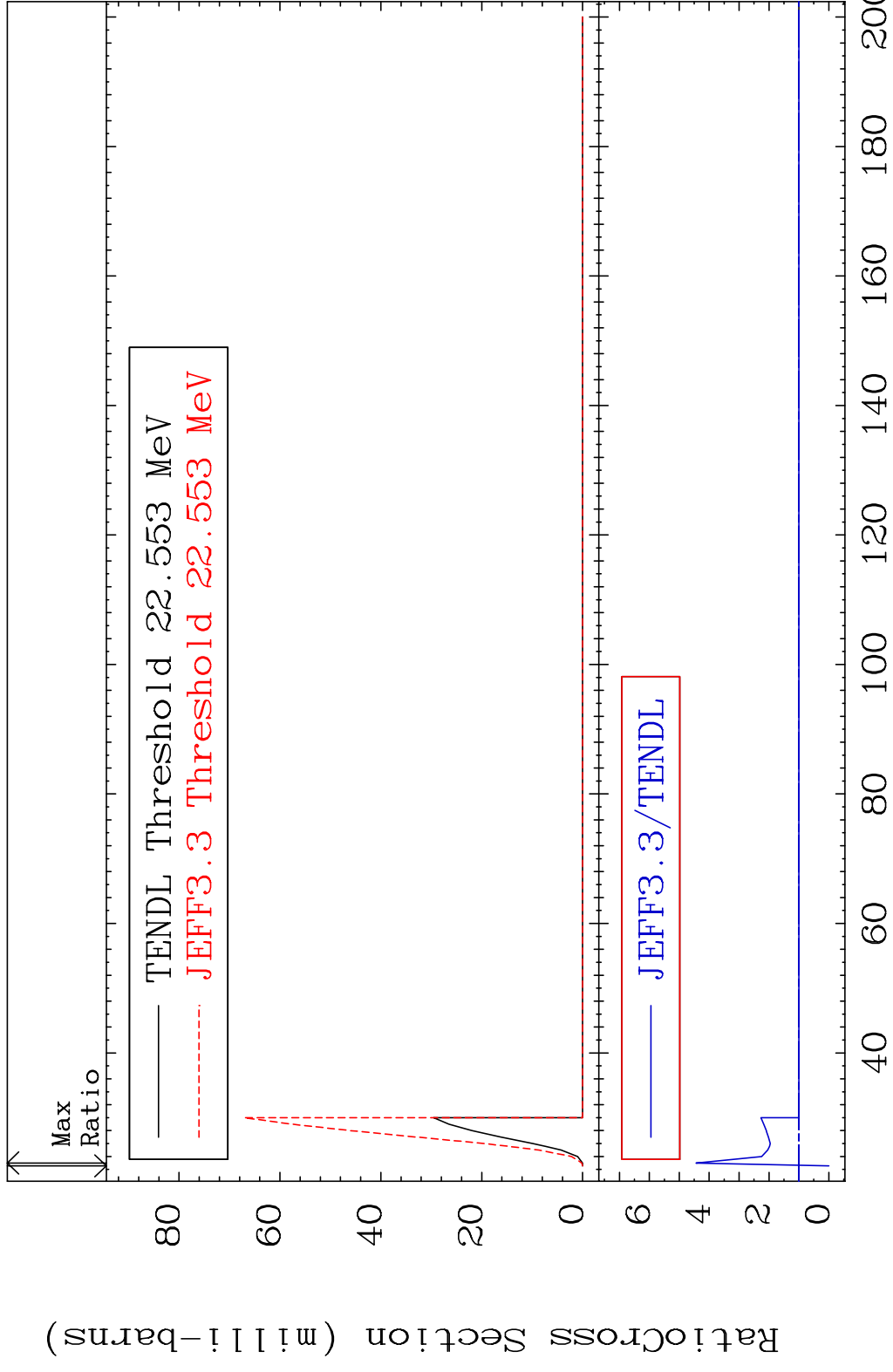
MAT 2322 (n,2n) d 23-V -49
Cross Section -100.0 To 7050. %



MAT 2322 (n,2n) 23-V -49
 Cross Section -100.0 To 40.18 %



MAT 2322 (n,3n) 23-V -49
 Cross Section -100.0 To 344.0 %

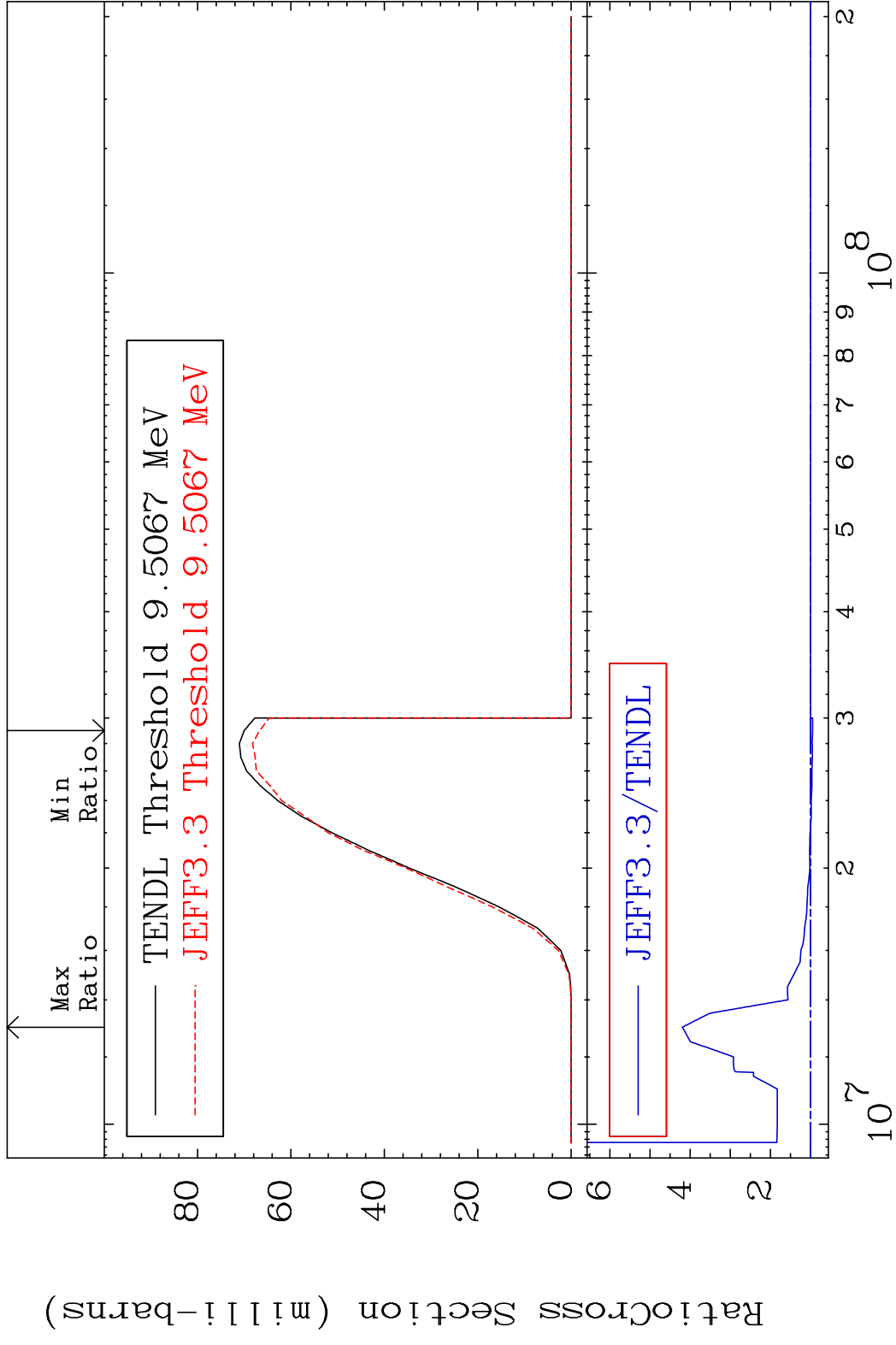


MAT 2322

(n, n') α

23-V -49

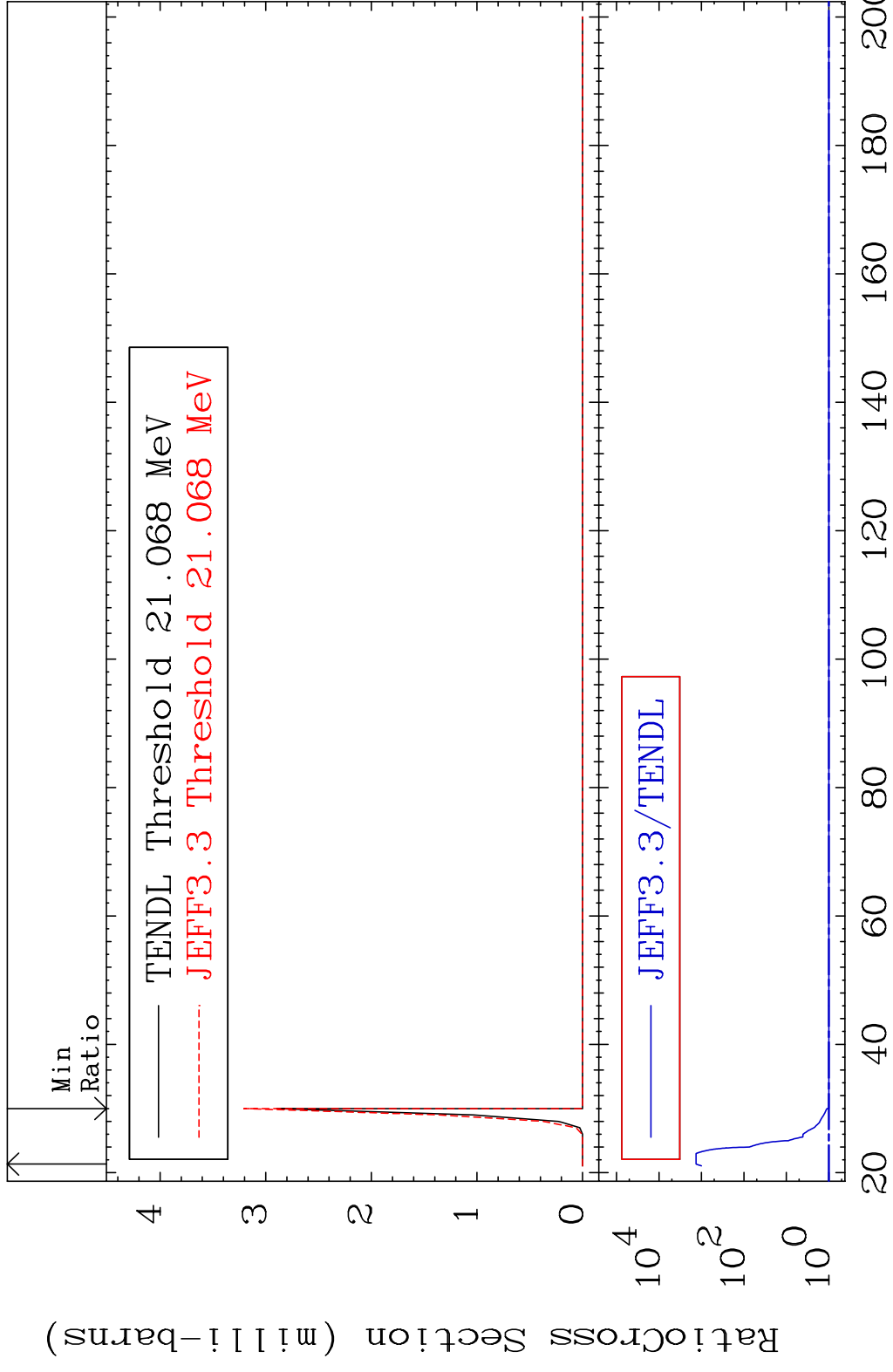
Cross Section -4.725 To 319.4 %



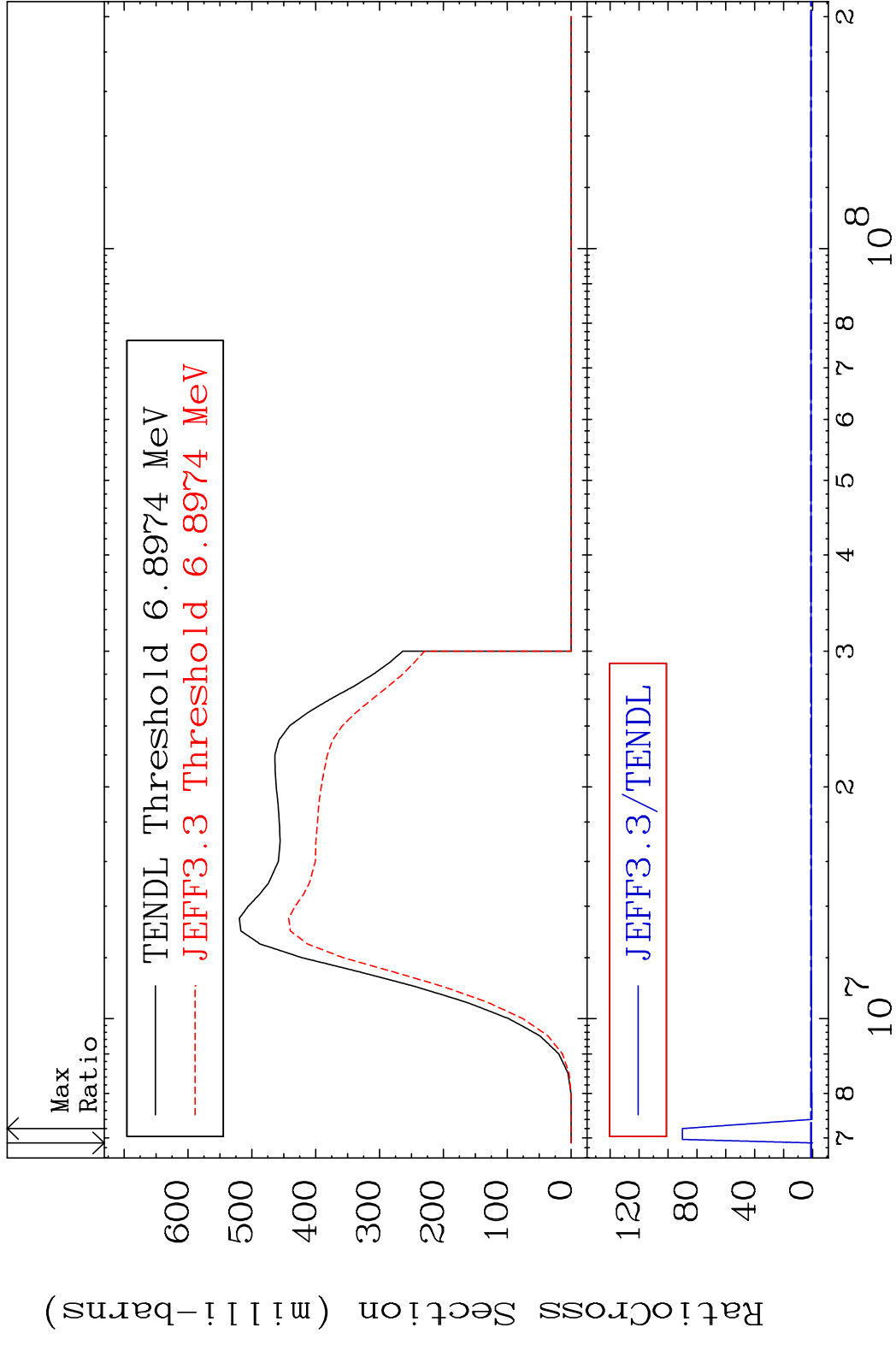
Incident Energy (eV)

23-V -49

MAT 2322 (n,2n) α 23-V -49
 Cross Section 0.000 To 9999. %



MAT 2322 (n, n') p 23-V -49
 Cross Section -100.0 To 8906. %

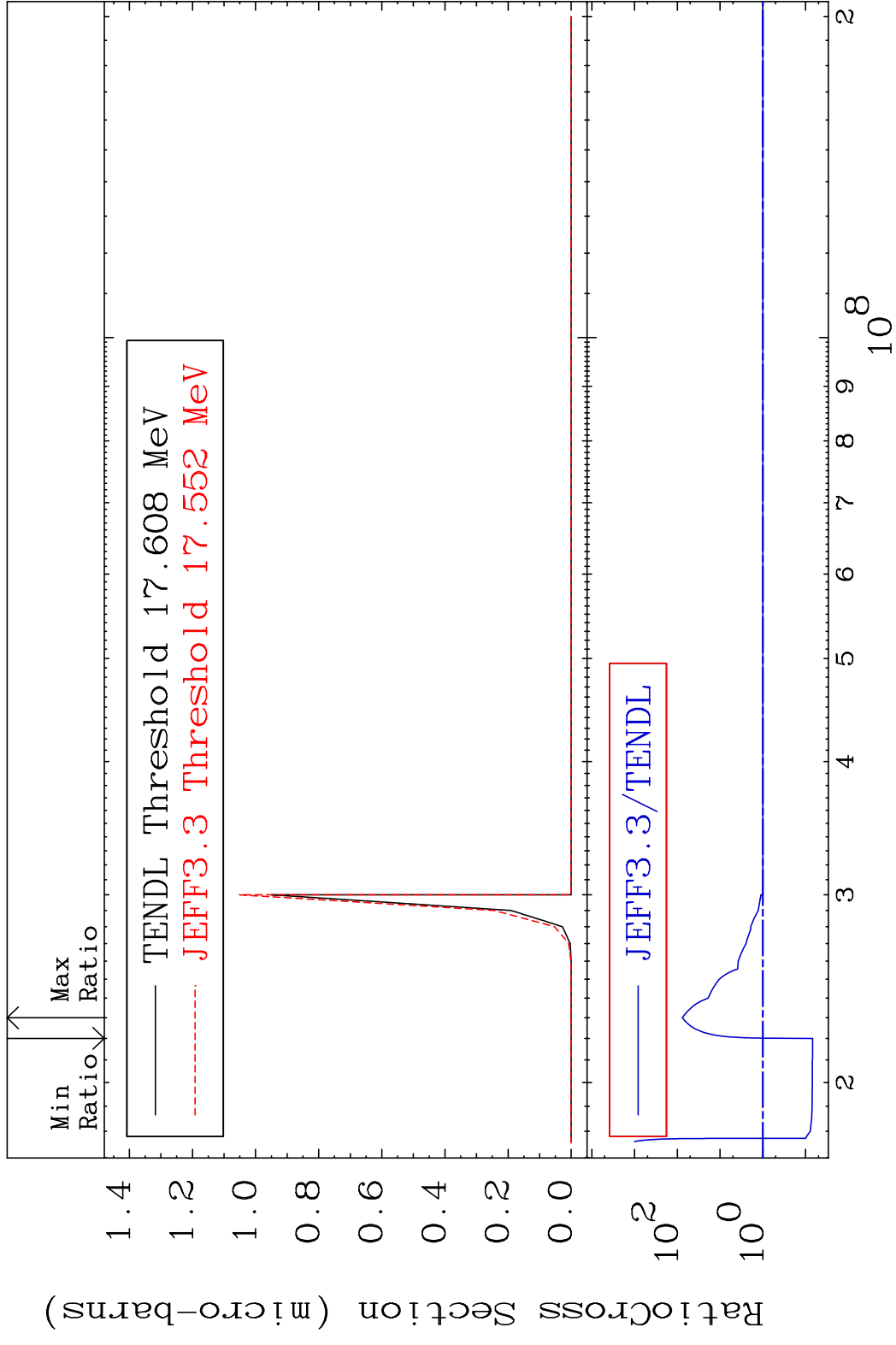


MAT 2322

(n, n') 2α

23-V -49

Cross Section -93.14 To 7519. %

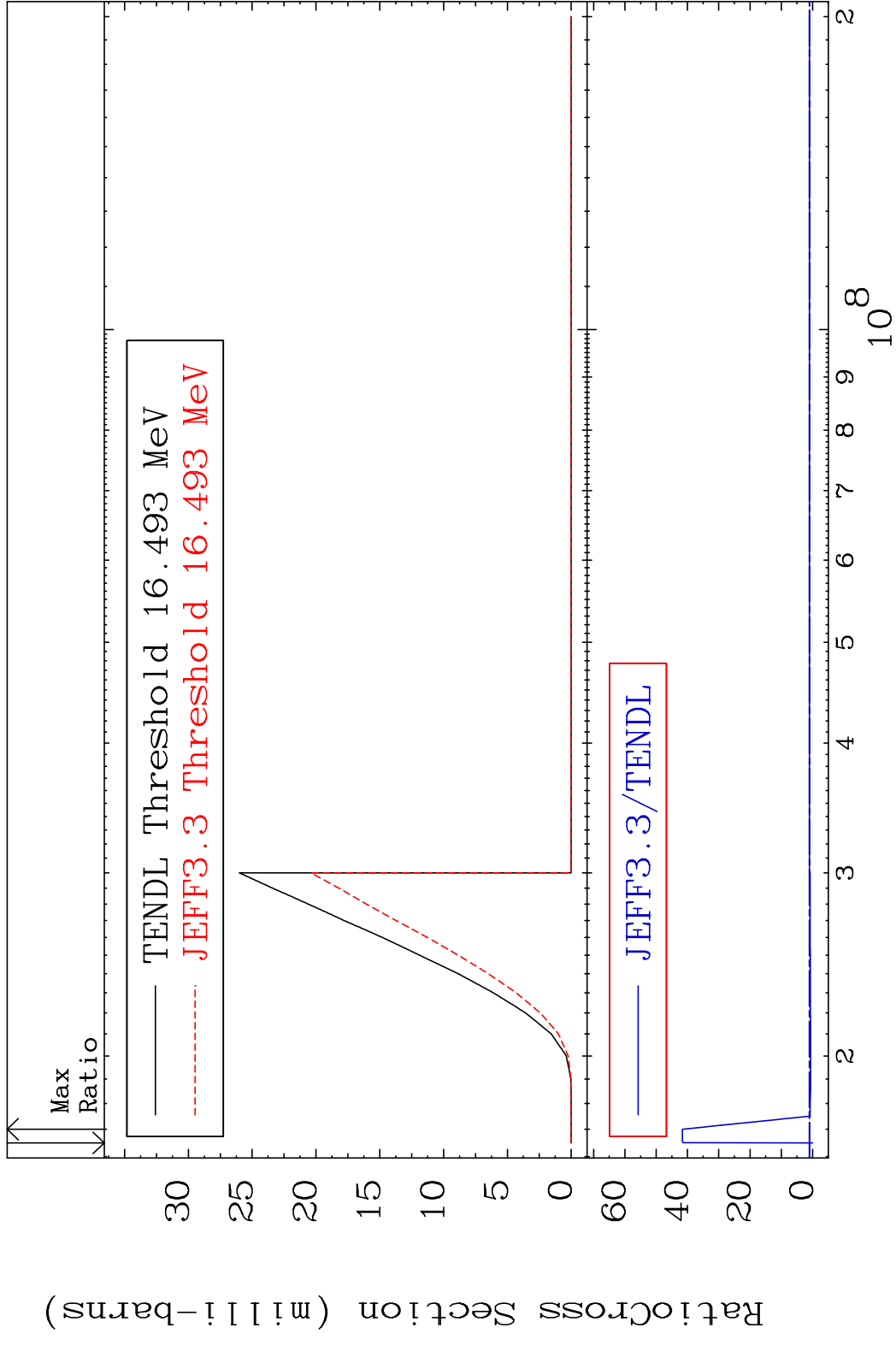


10

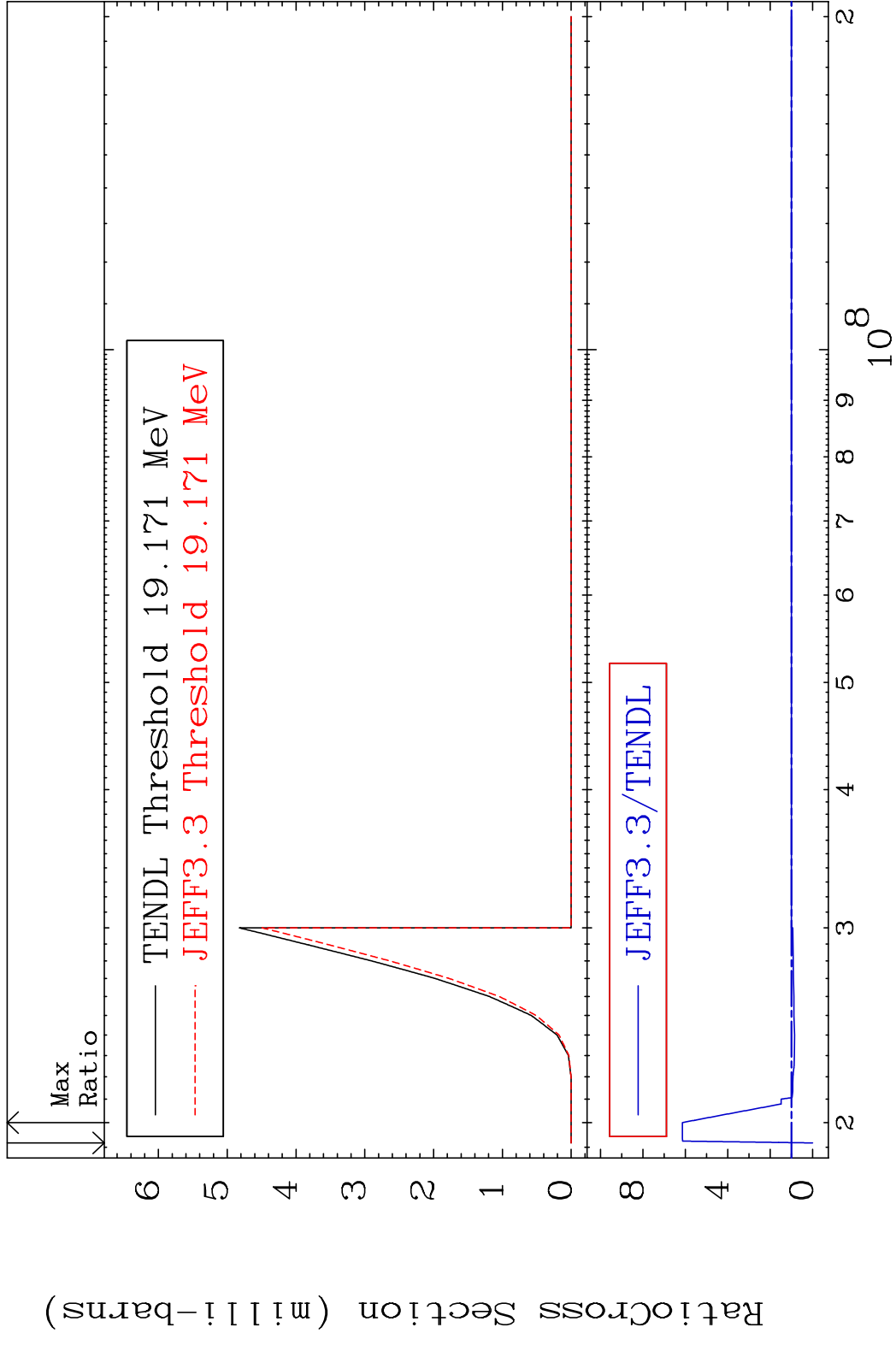
Incident Energy (eV)

23-V -49

MAT 2322 (n, n') d 23-V -49
 Cross Section -100.0 To 4063. %



MAT 2322 (n, n') t 23-V -49
 Cross Section -100.0 To 514.3 %

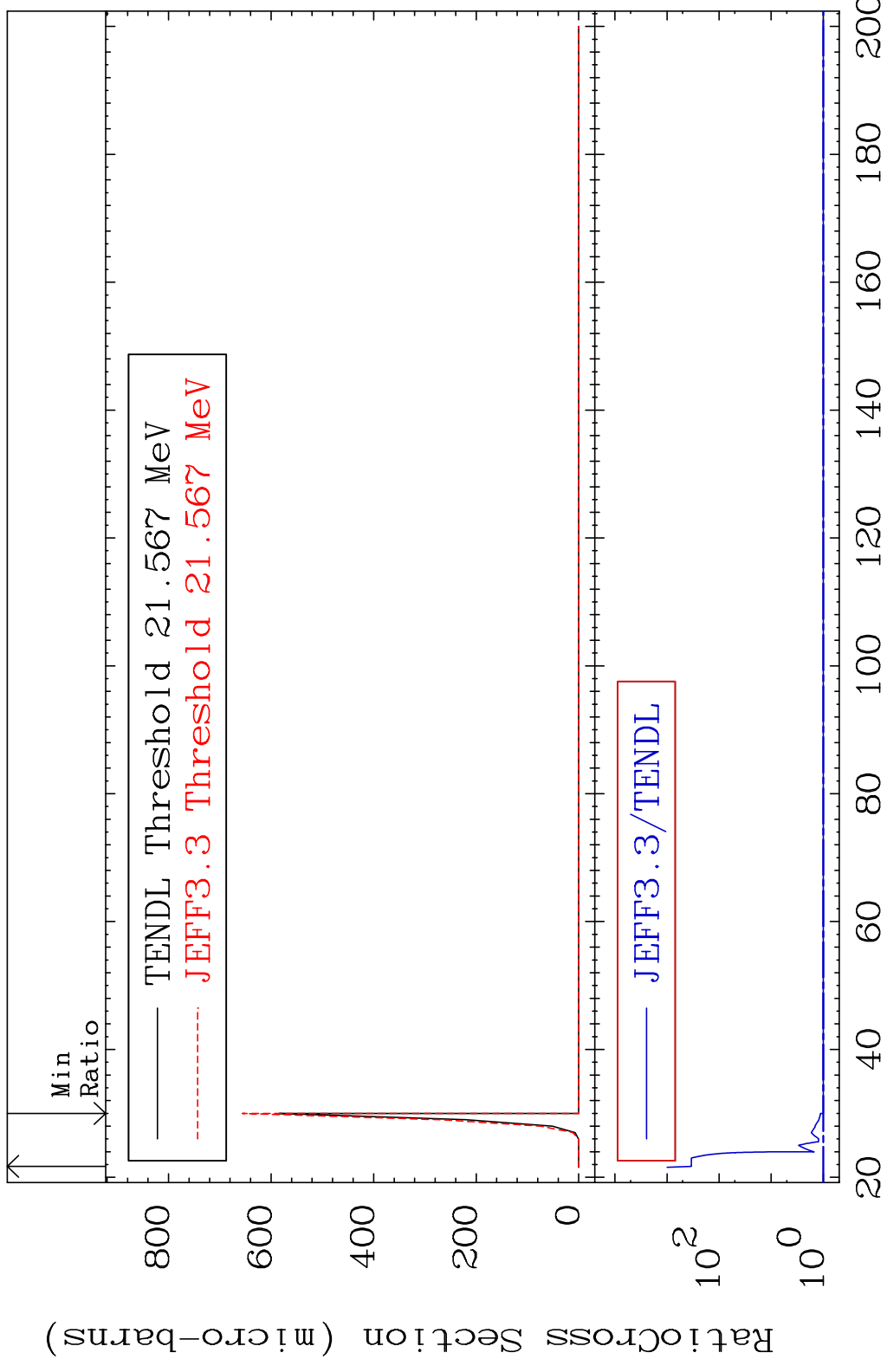


MAT 2322

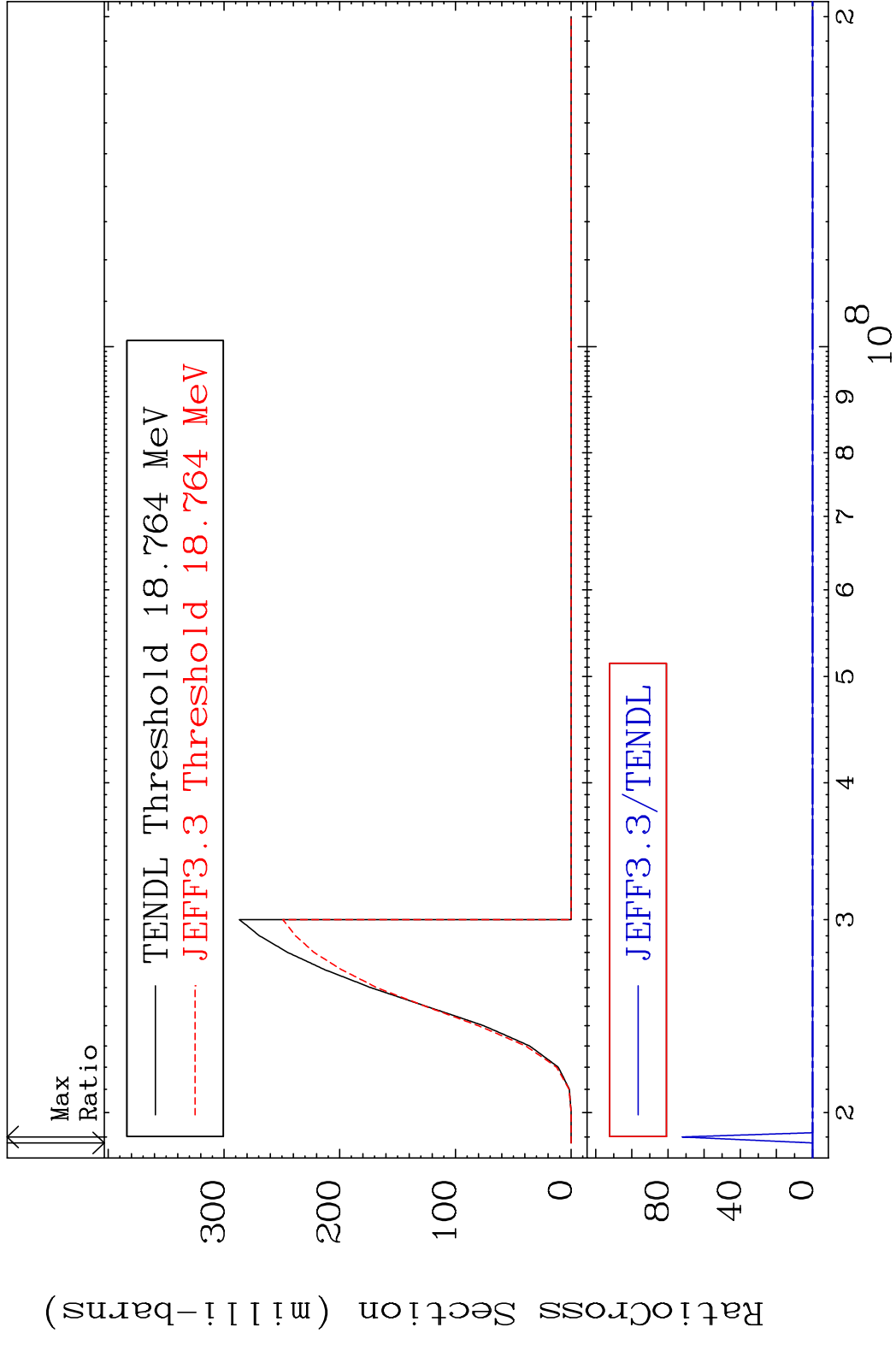
(n,n') He-3

23-V -49

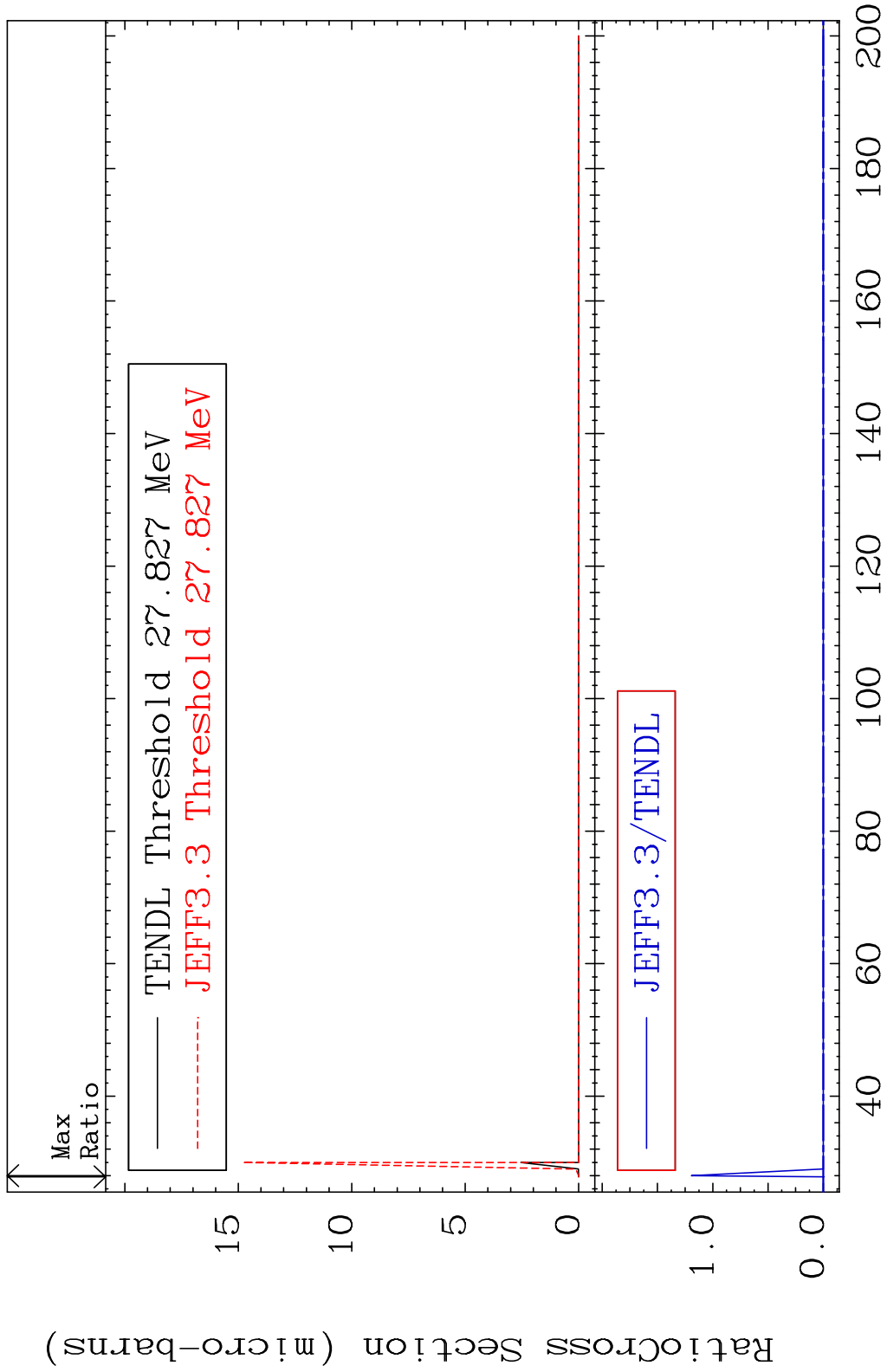
Cross Section 0.000 To 9999. %



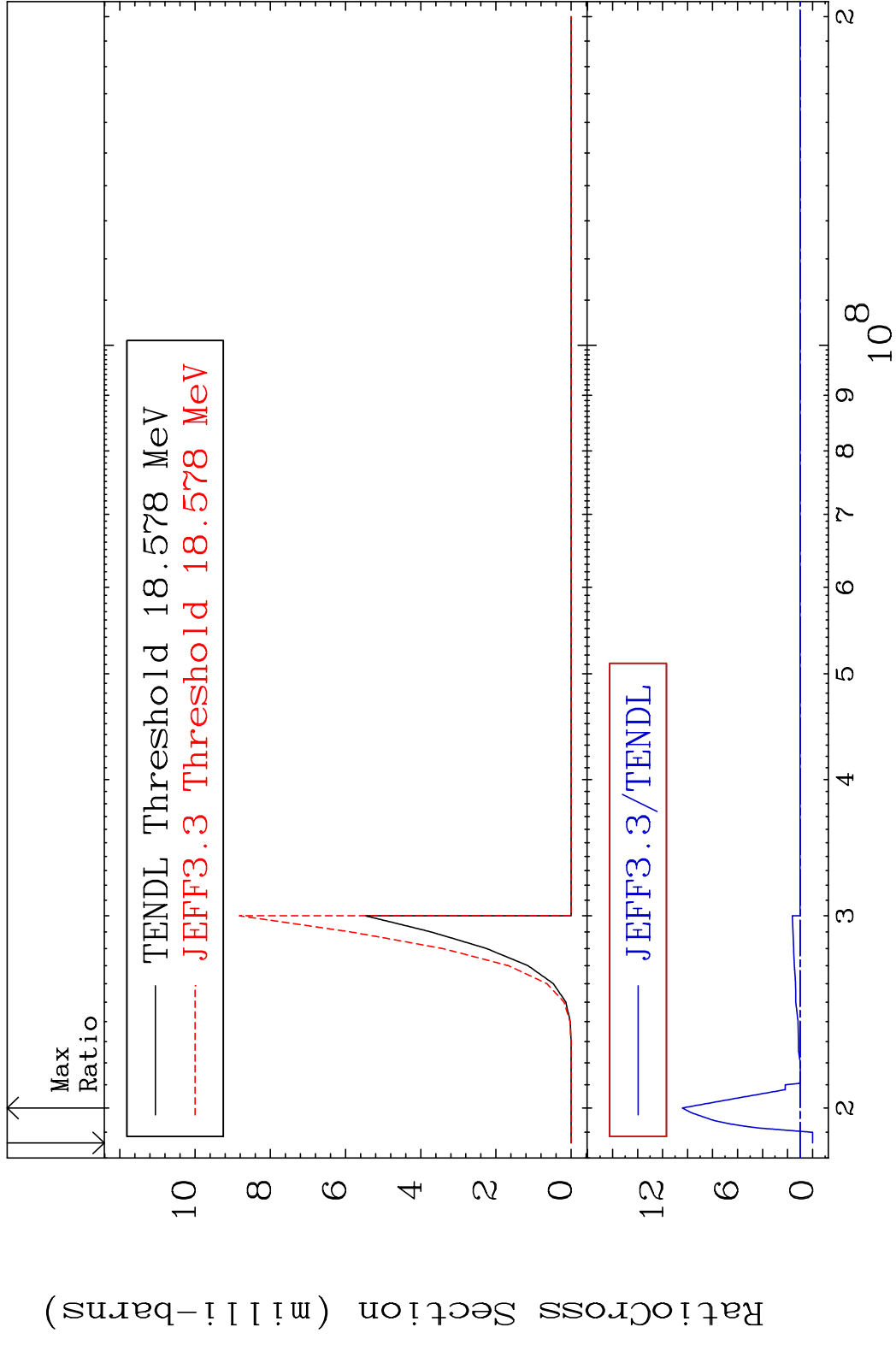
MAT 2322 (n,2n) p 23-V -49
 Cross Section -100.0 To 9999. %



MAT 2322 (n,3n) p 23-V -49
 Cross Section -100.0 To 9999. %



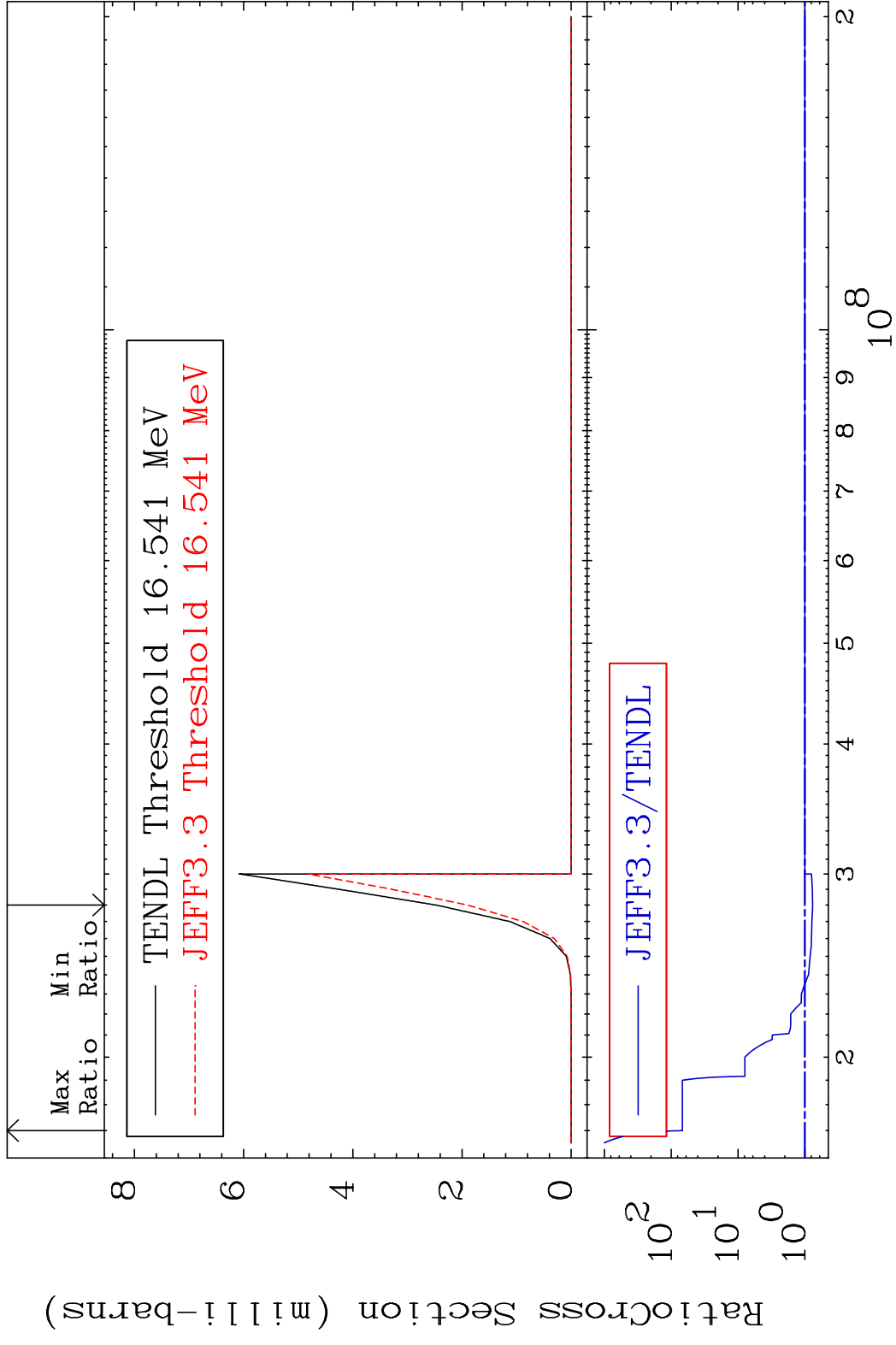
MAT 2322 (n,2n) p 23-V -49
 Cross Section -100.0 To 941.8 %



16 Incident Energy (eV) 23-V -49

MAT 2322

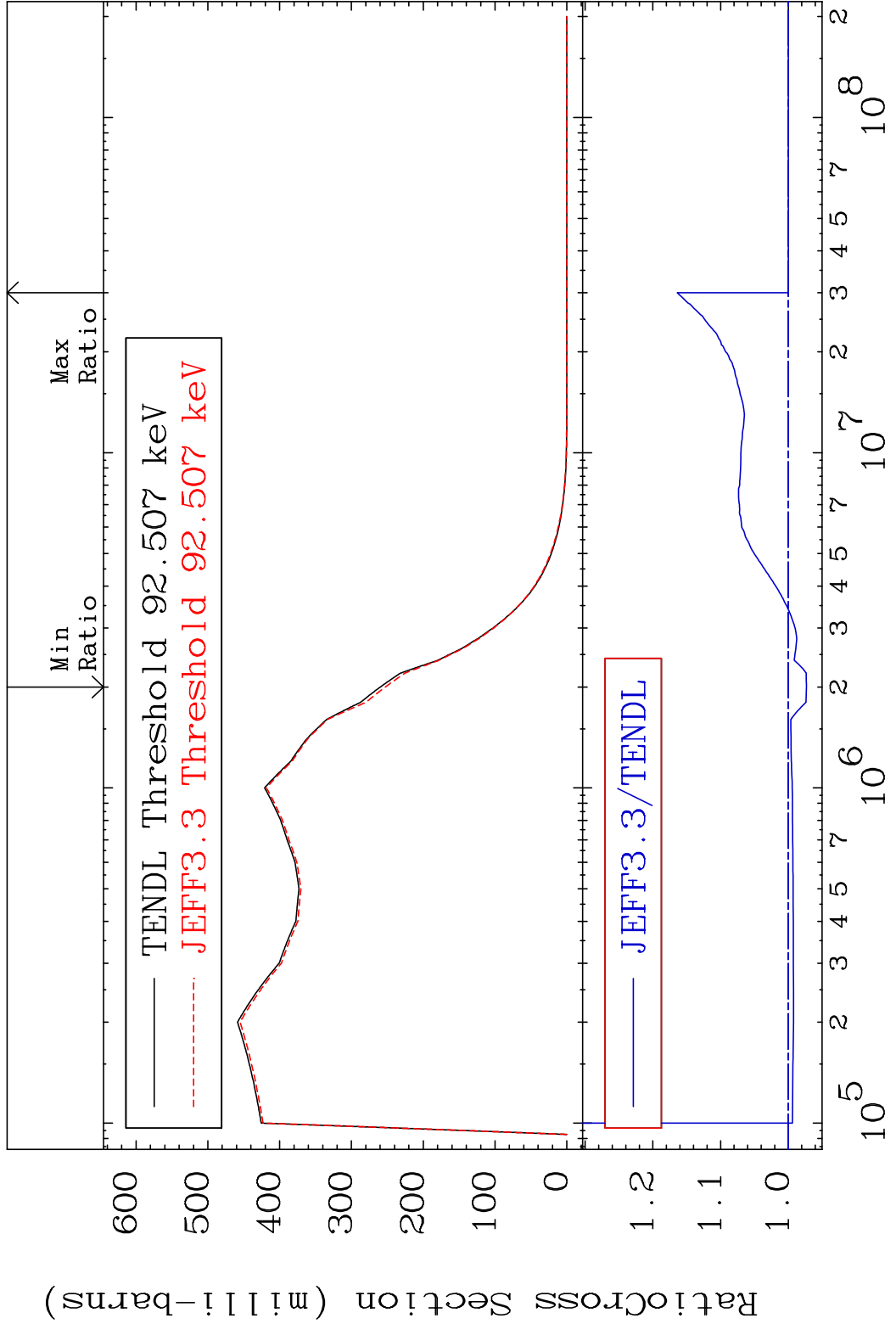
(n,n') p α 23-V -49
Cross Section -23.30 To 6699. %



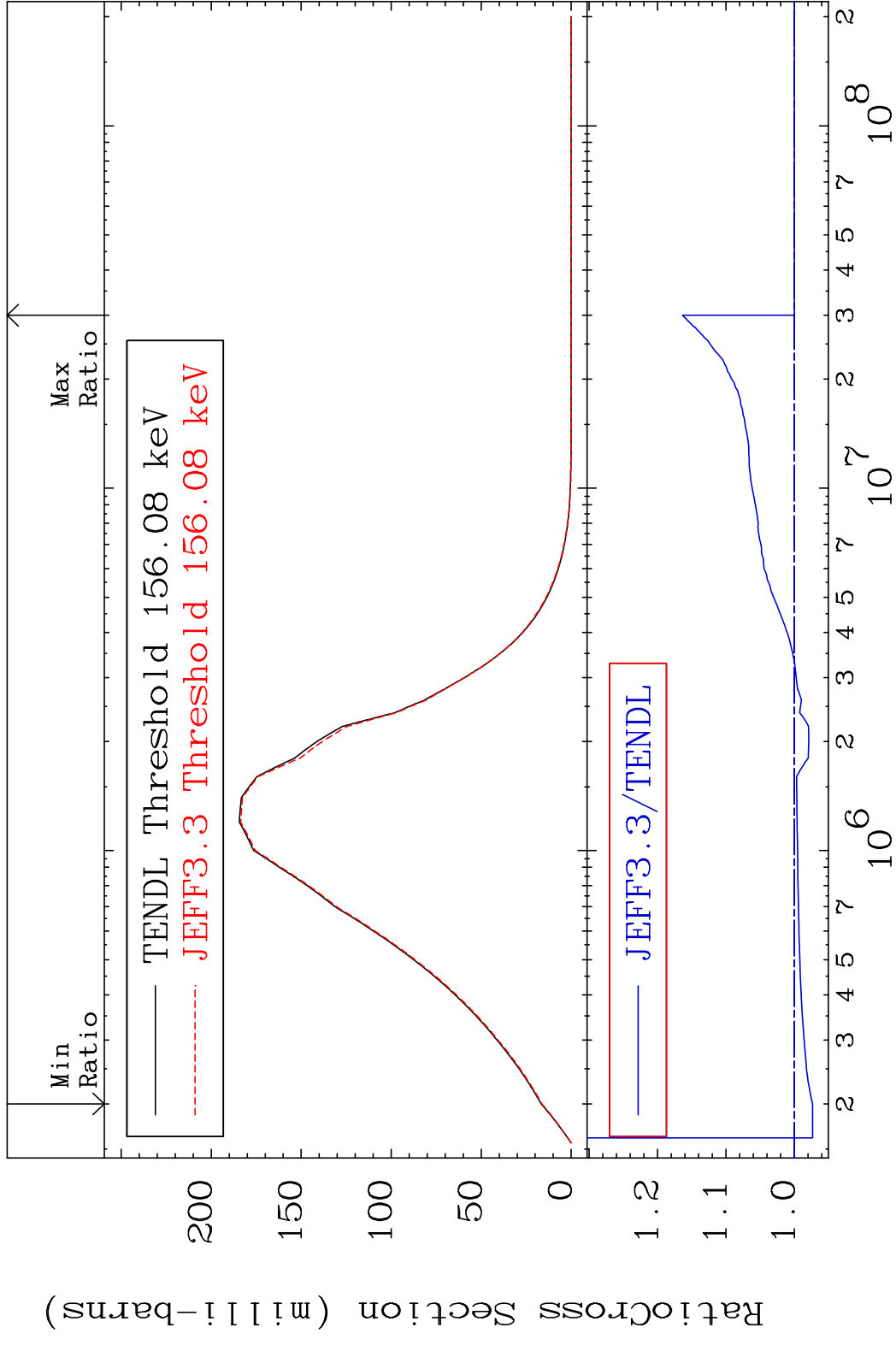
17

Incident Energy (eV) 23-V -49

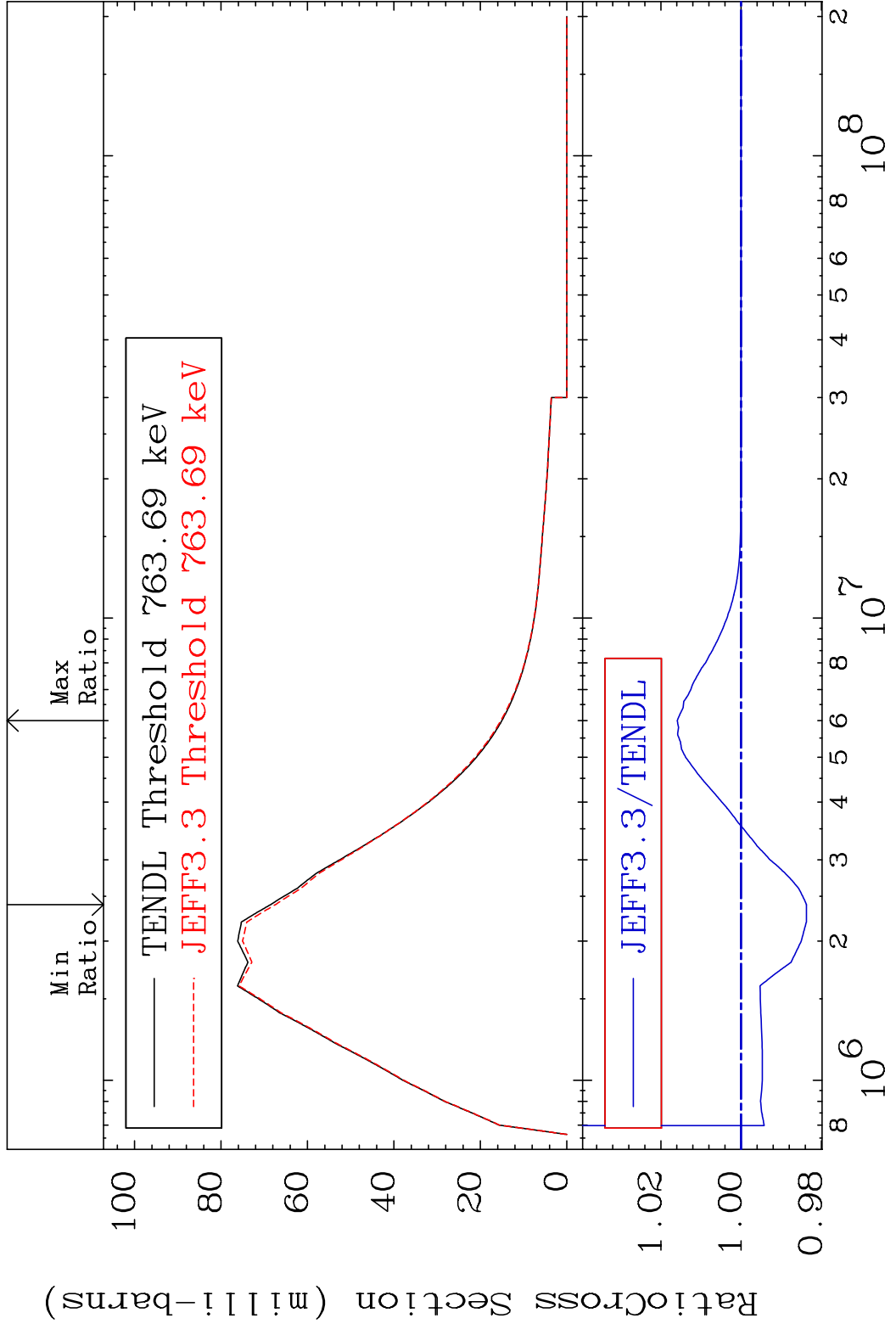
MAT 2322 MT= 51 (n,n') Level 23-V -49
 Cross Section -2.680 To 16.41 %



MAT 2322 MT= 52 (n,n') Level 23-V -49
 Cross Section -2.665 To 16.37 %

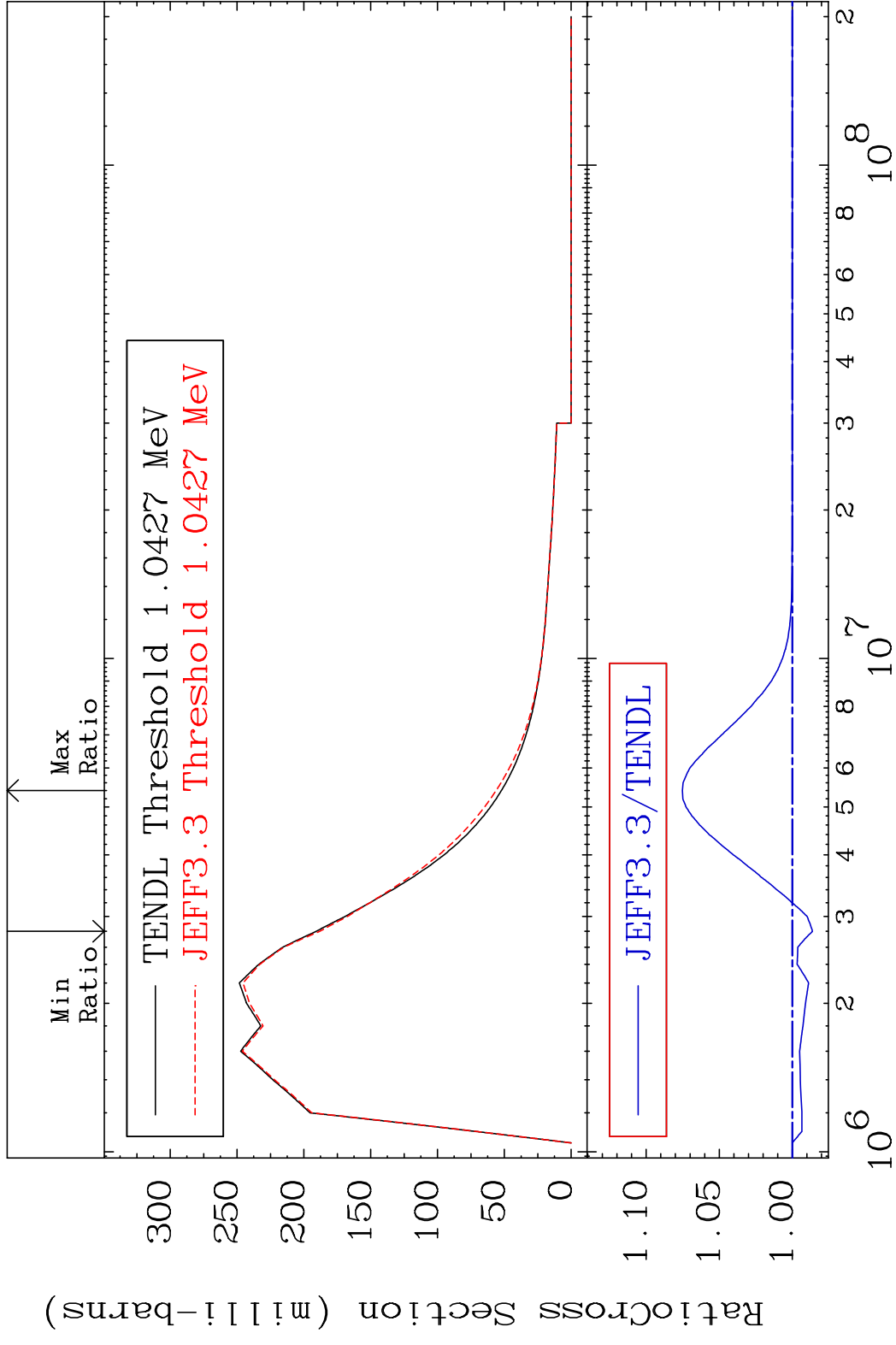


MAT 2322 MT= 53 (n, n') Level 23-V -49
 Cross Section -1.628 To 1.592 %

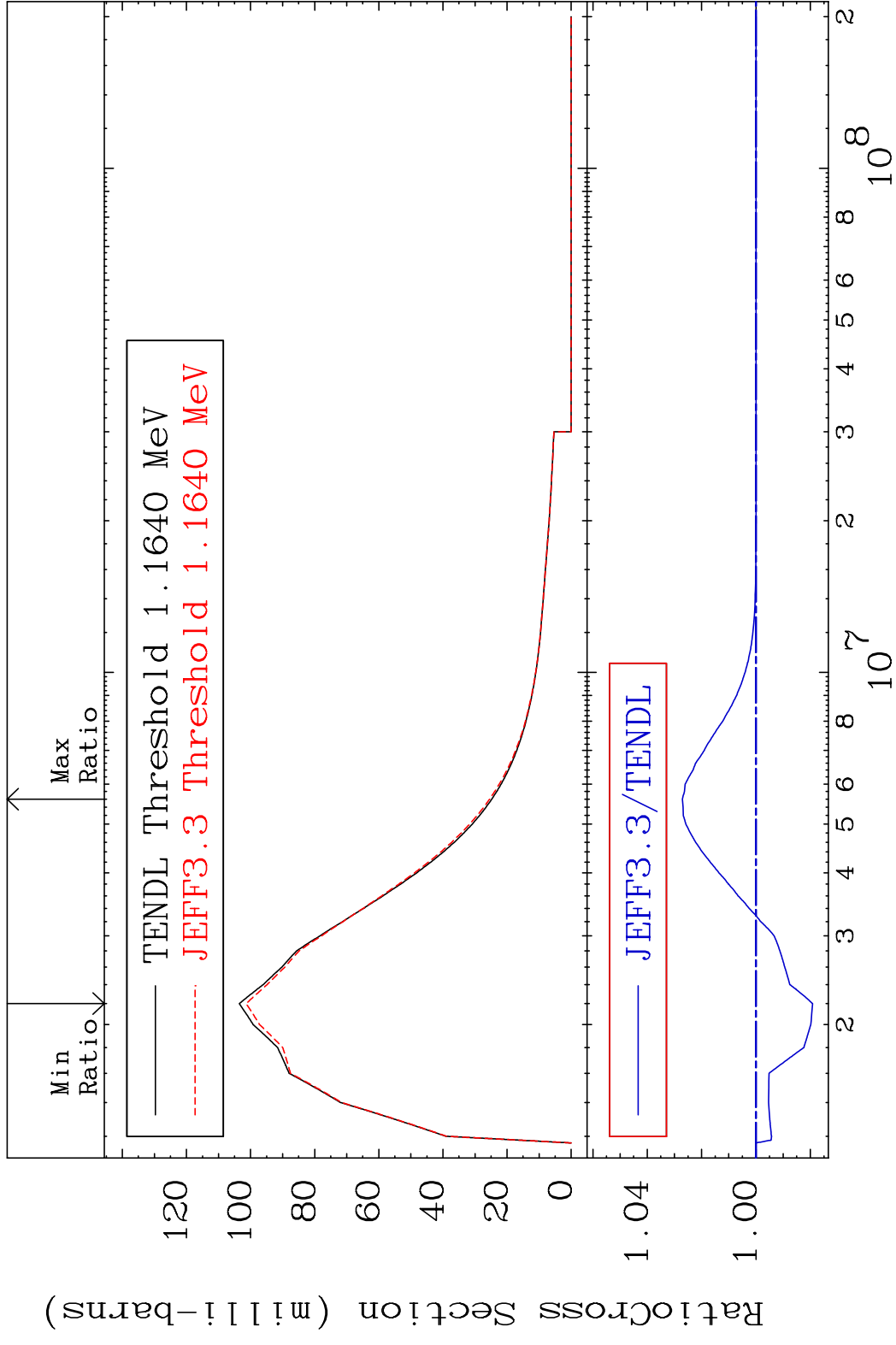


20 Incident Energy (eV) 23-V -49

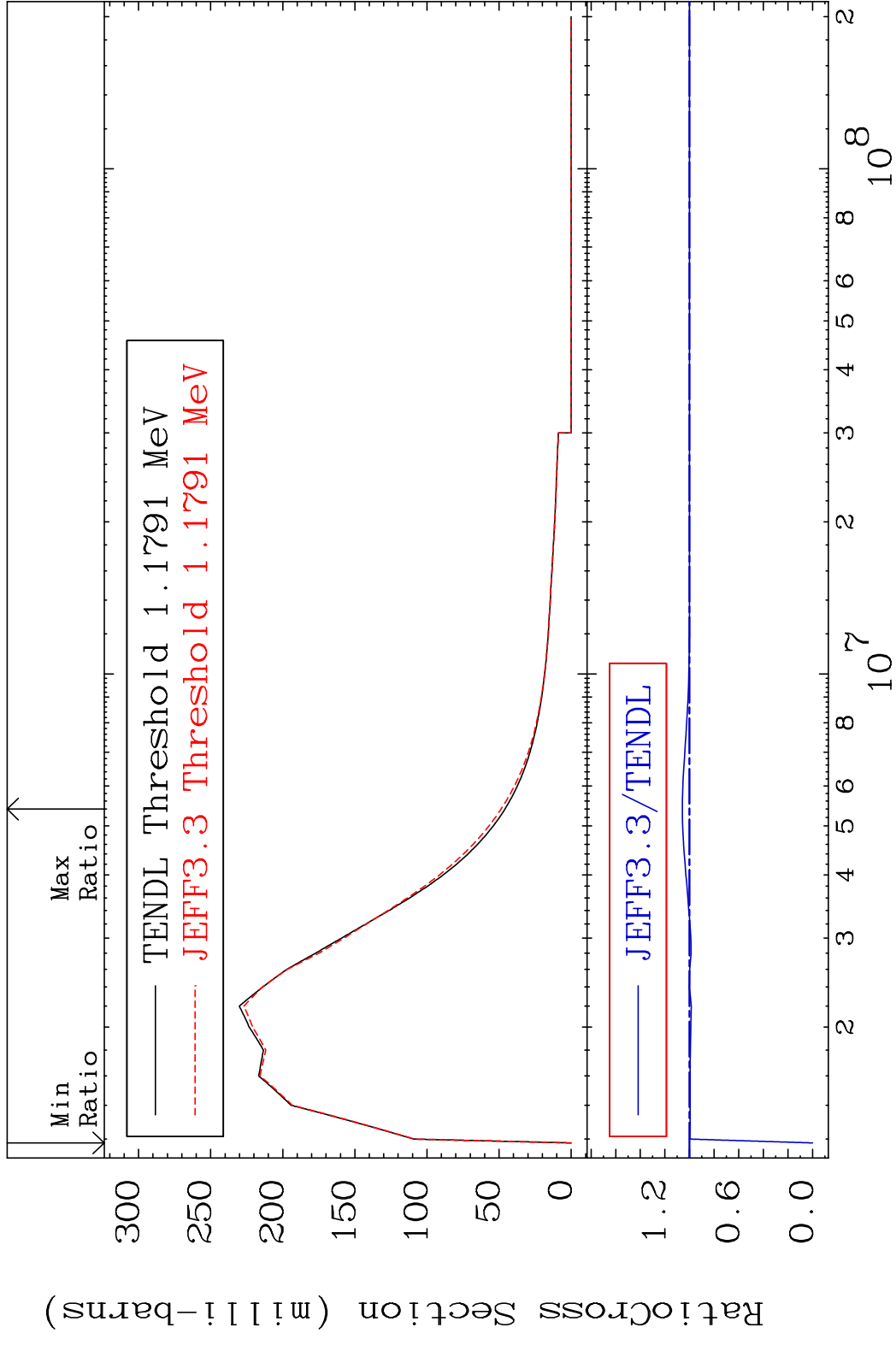
MAT 2322 MT= 54 (n,n') Level 23-V -49
 Cross Section -1.385 To 7.526 %



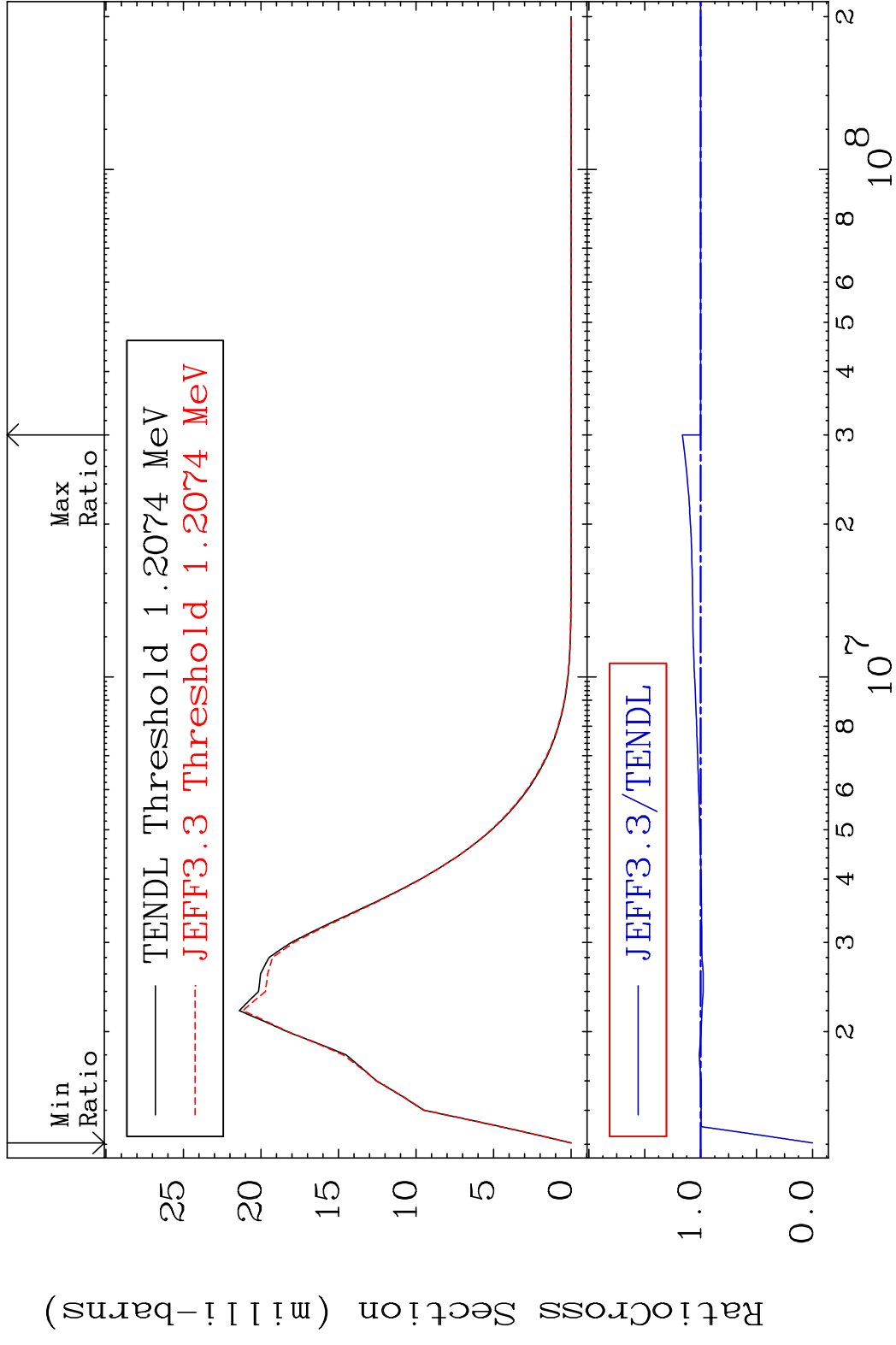
MAT 2322 MT= 55 (n, n') Level 23-V -49
 Cross Section -2.082 To 2.708 %



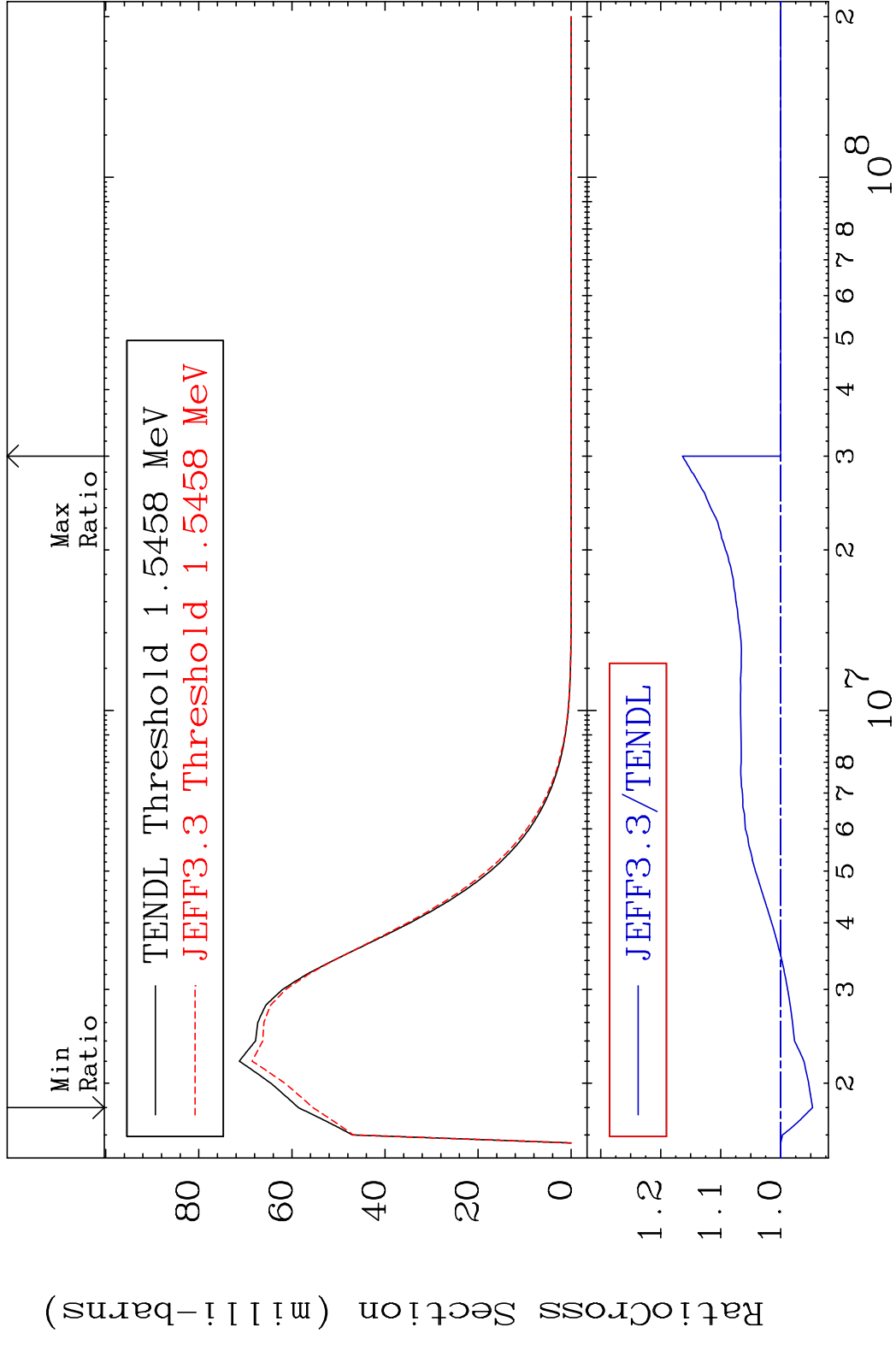
MAT 2322 MT= 56 (n,n') Level 23-V -49
 Cross Section -100.0 To 5.825 %



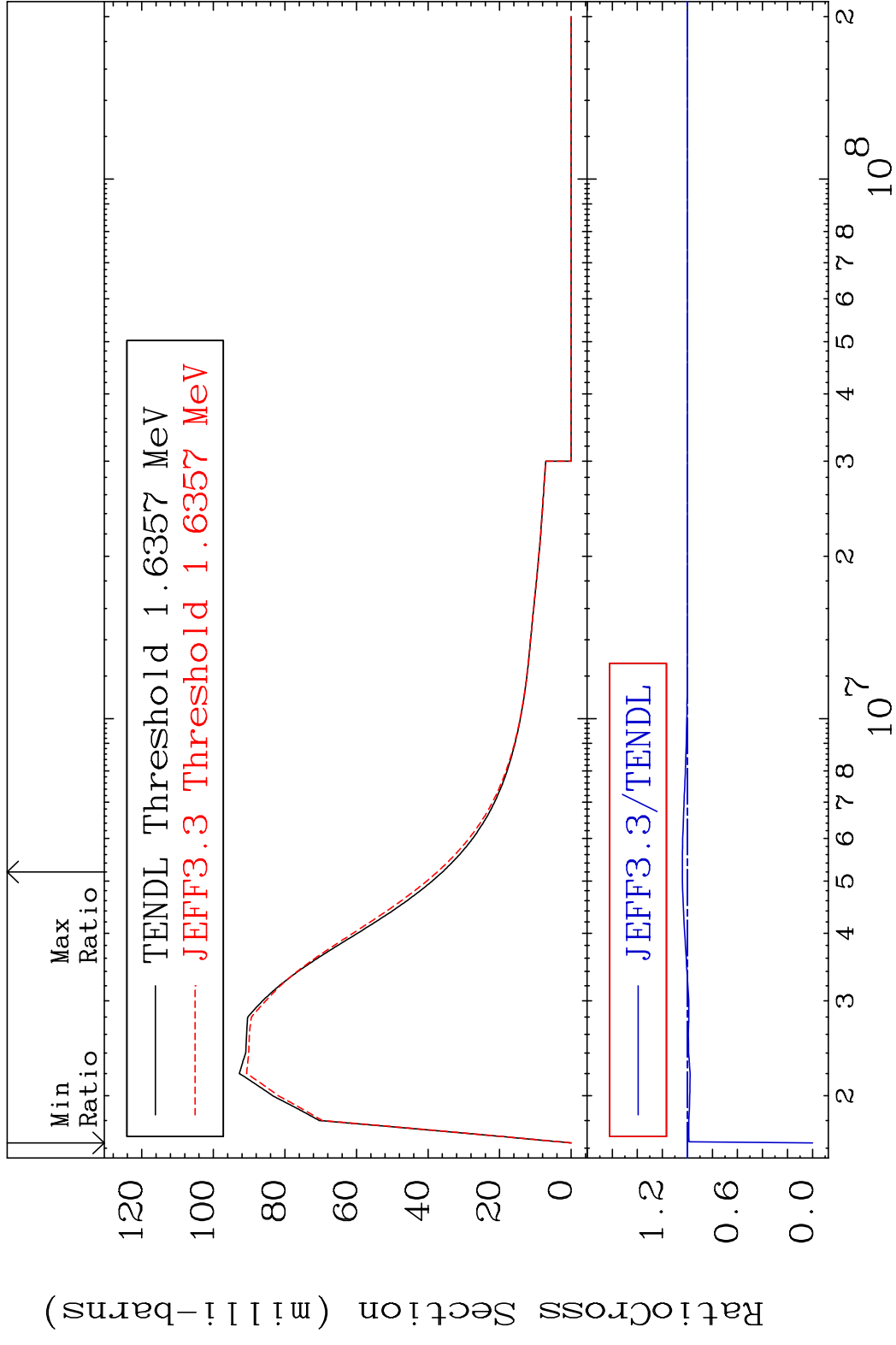
MAT 2322 MT= 57 (n, n') Level 23-V -49
 Cross Section -100.0 To 16.38 %



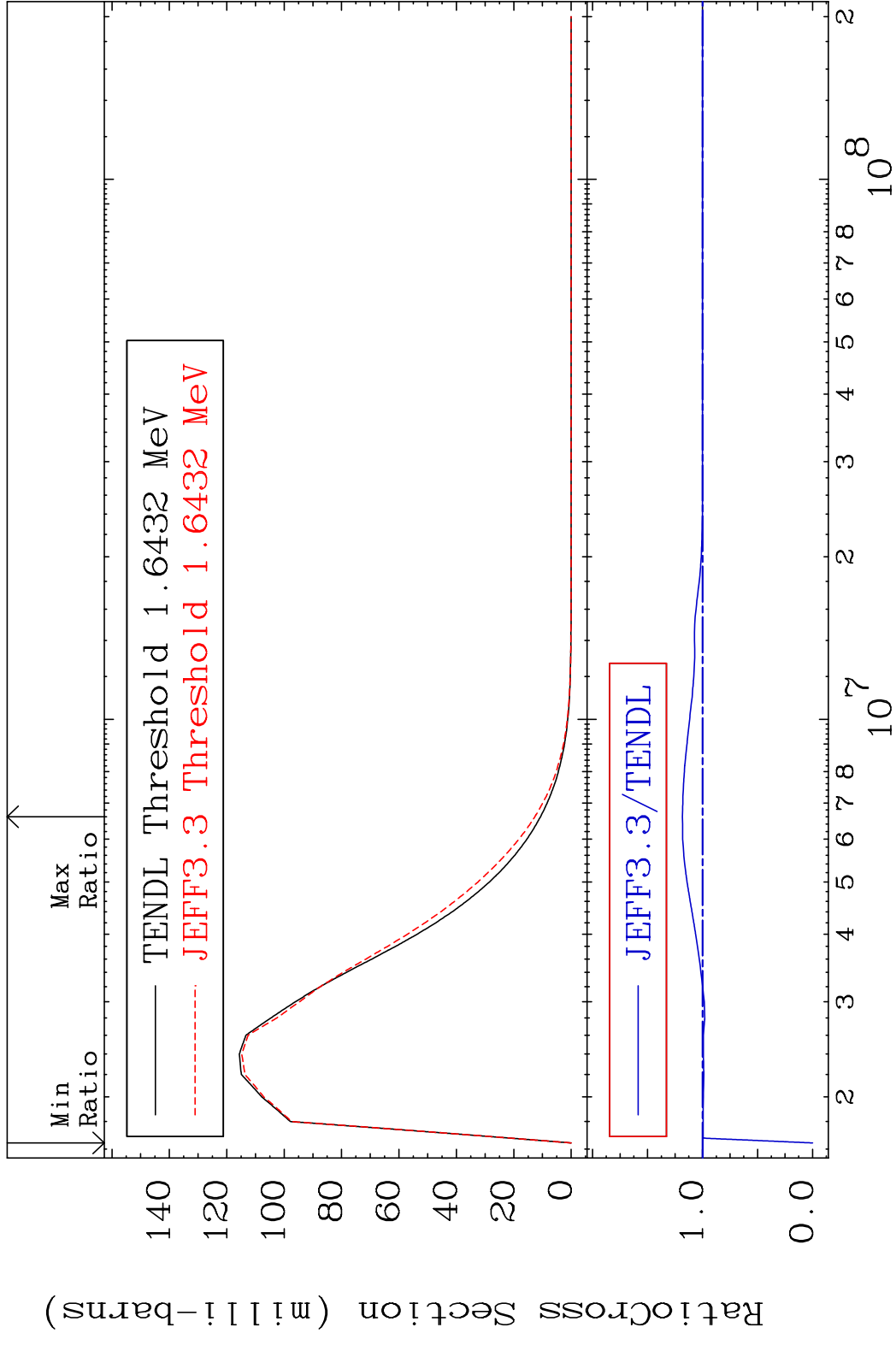
MAT 2322 MT= 58 (n, n') Level 23-V -49
 Cross Section -5.306 To 16.39 %



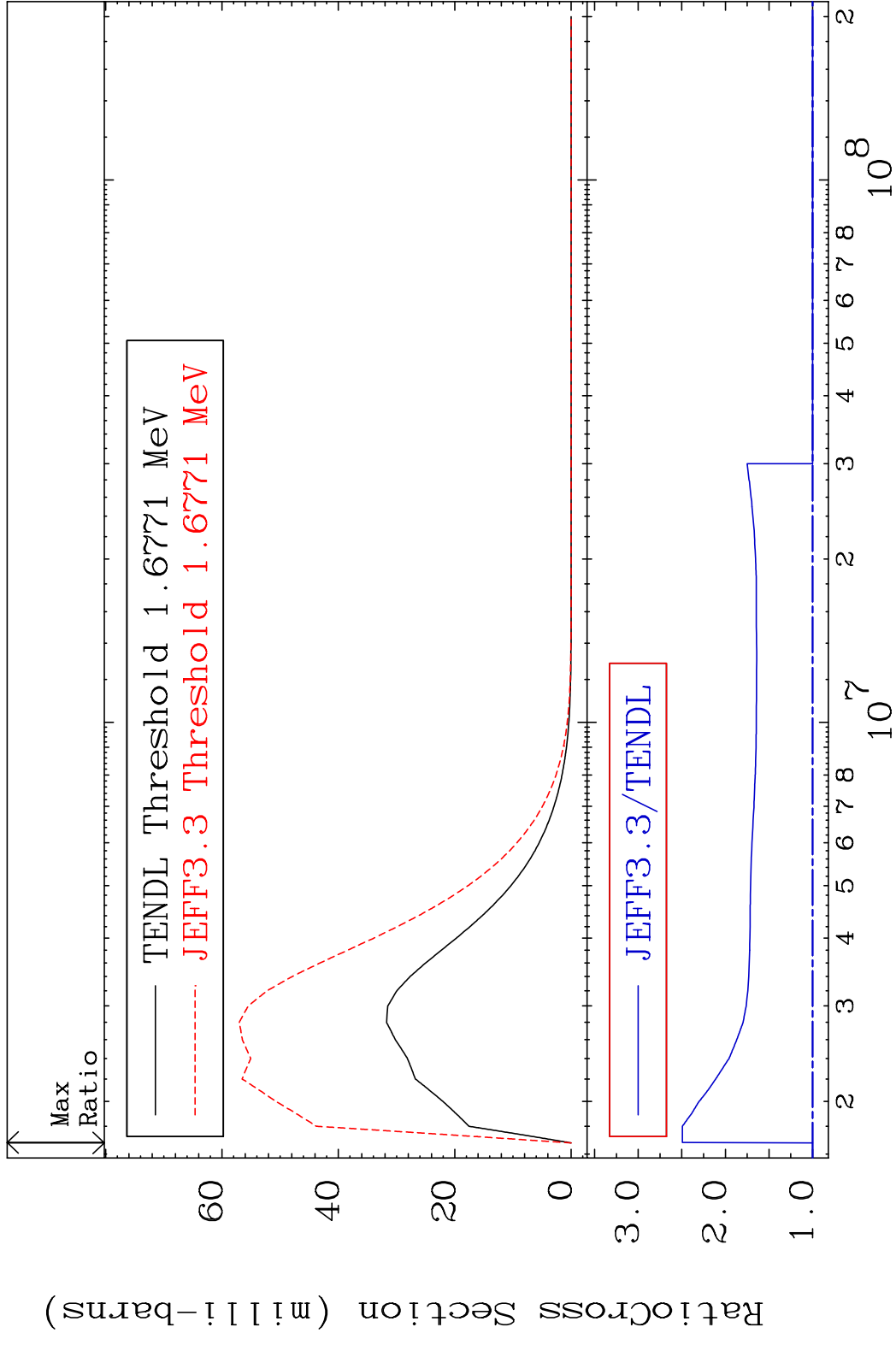
MAT 2322 MT= 59 (n,n') Level 23-V -49
 Cross Section -100.0 To 4.023 %



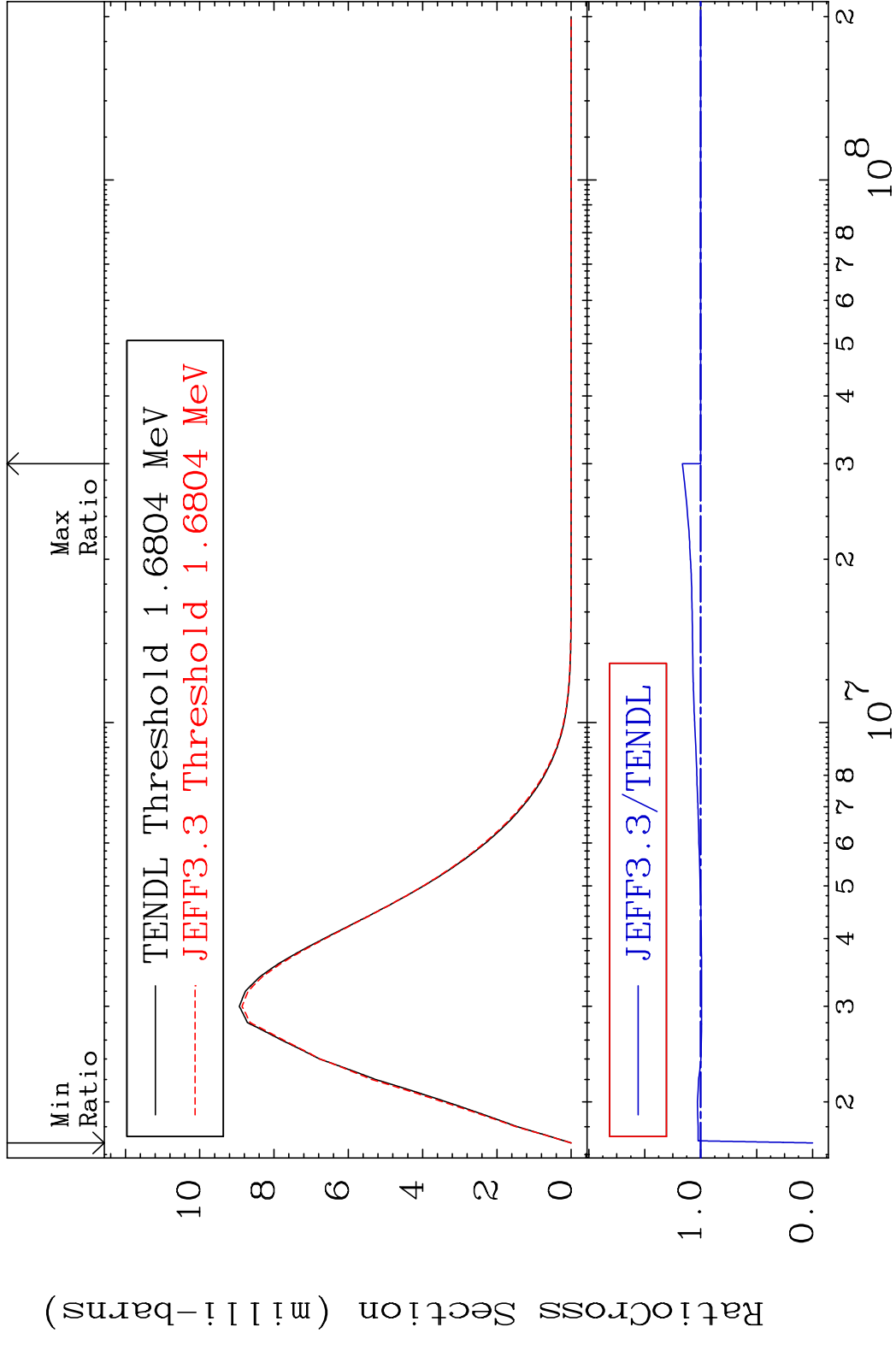
MAT 2322 MT= 60 (n,n') Level 23-V -49
 Cross Section -100.0 To 18.37 %



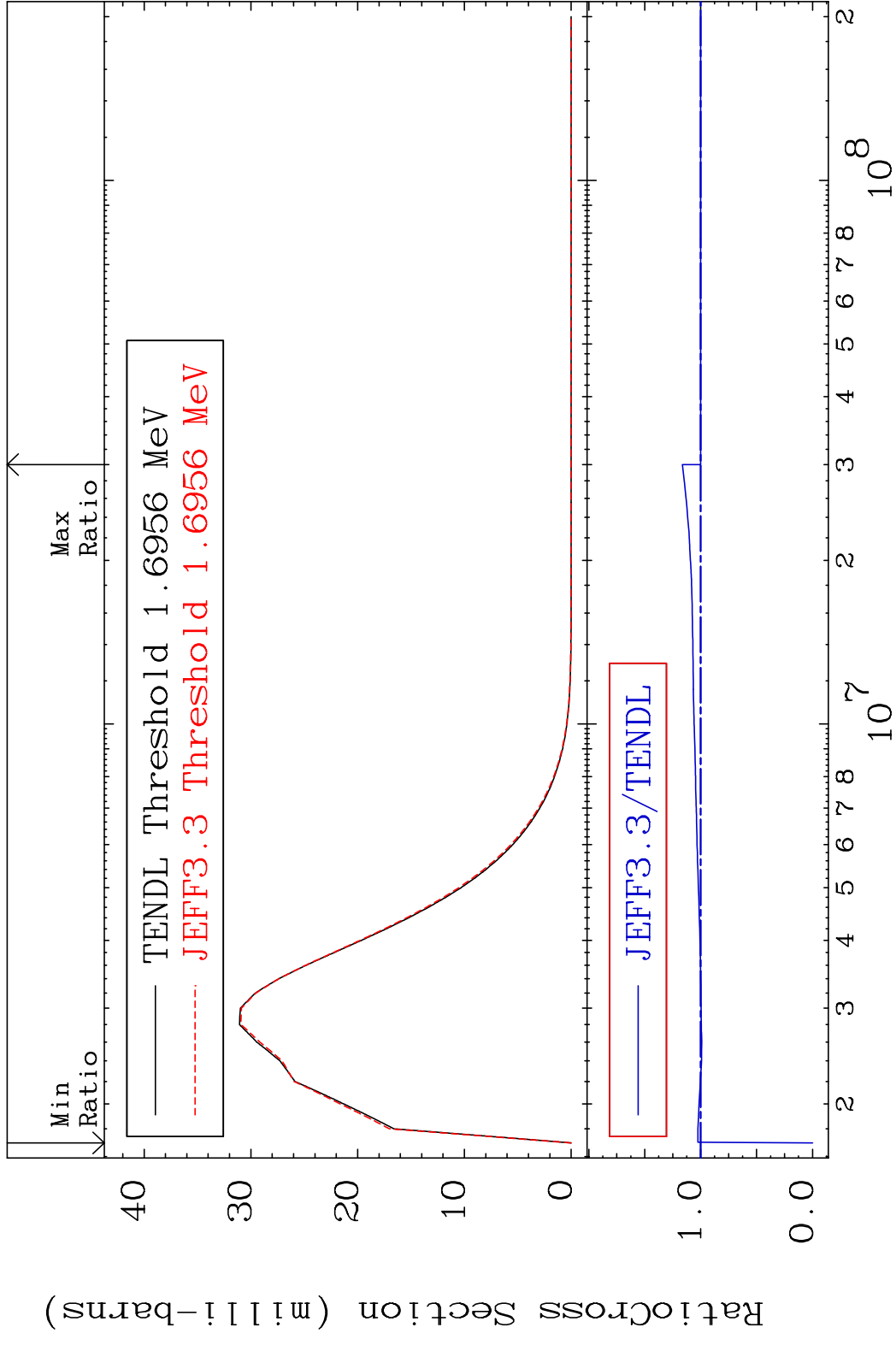
MAT 2322 MT= 61 (n, n') Level 23-V -49
 Cross Section 0.000 To 149.4 %



MAT 2322 MT= 62 (n, n') Level 23-V -49
 Cross Section -100.0 To 16.39 %

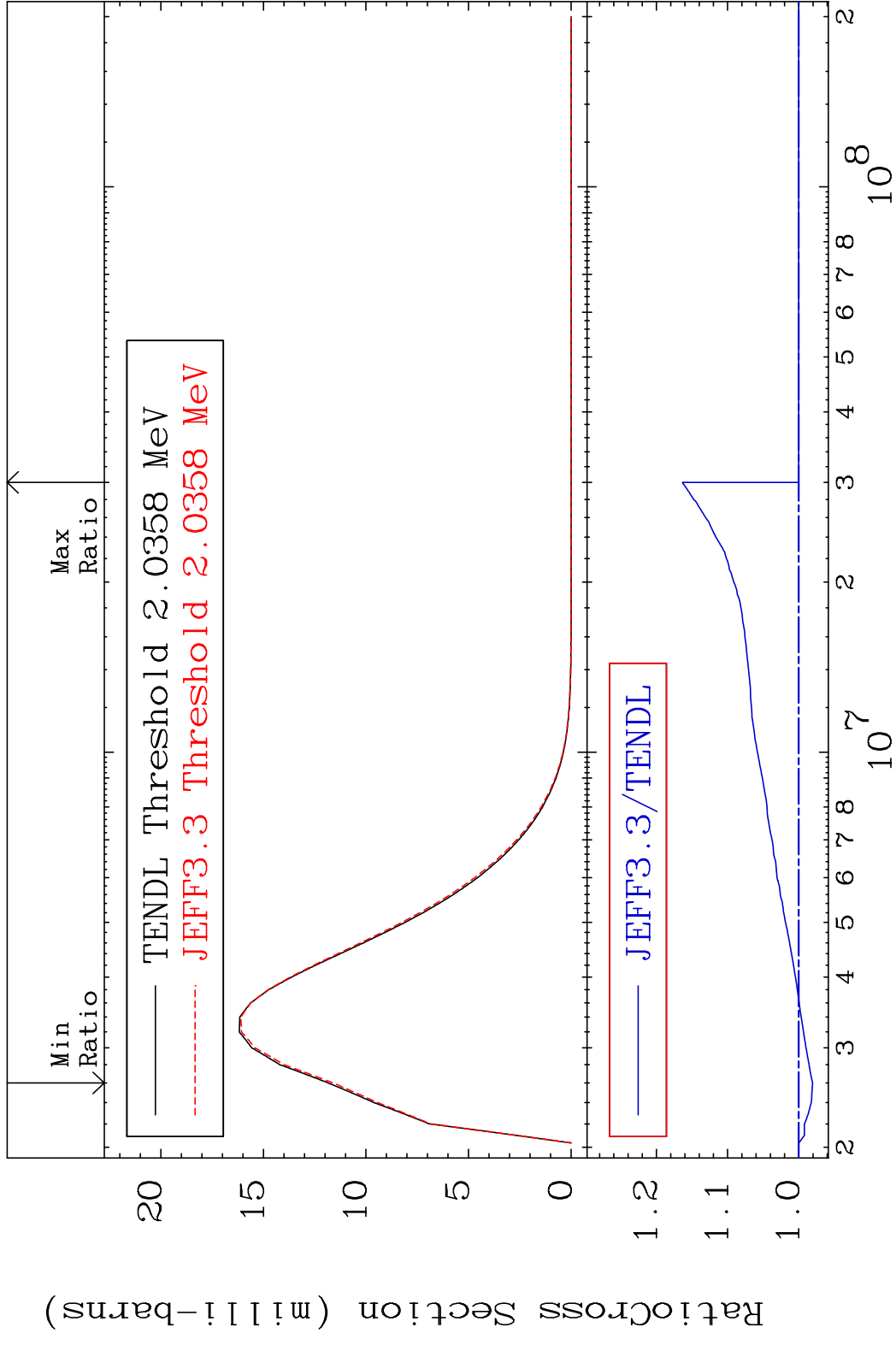


MAT 2322 MT= 63 (n, n') Level 23-V -49
 Cross Section -100.0 To 16.37 %

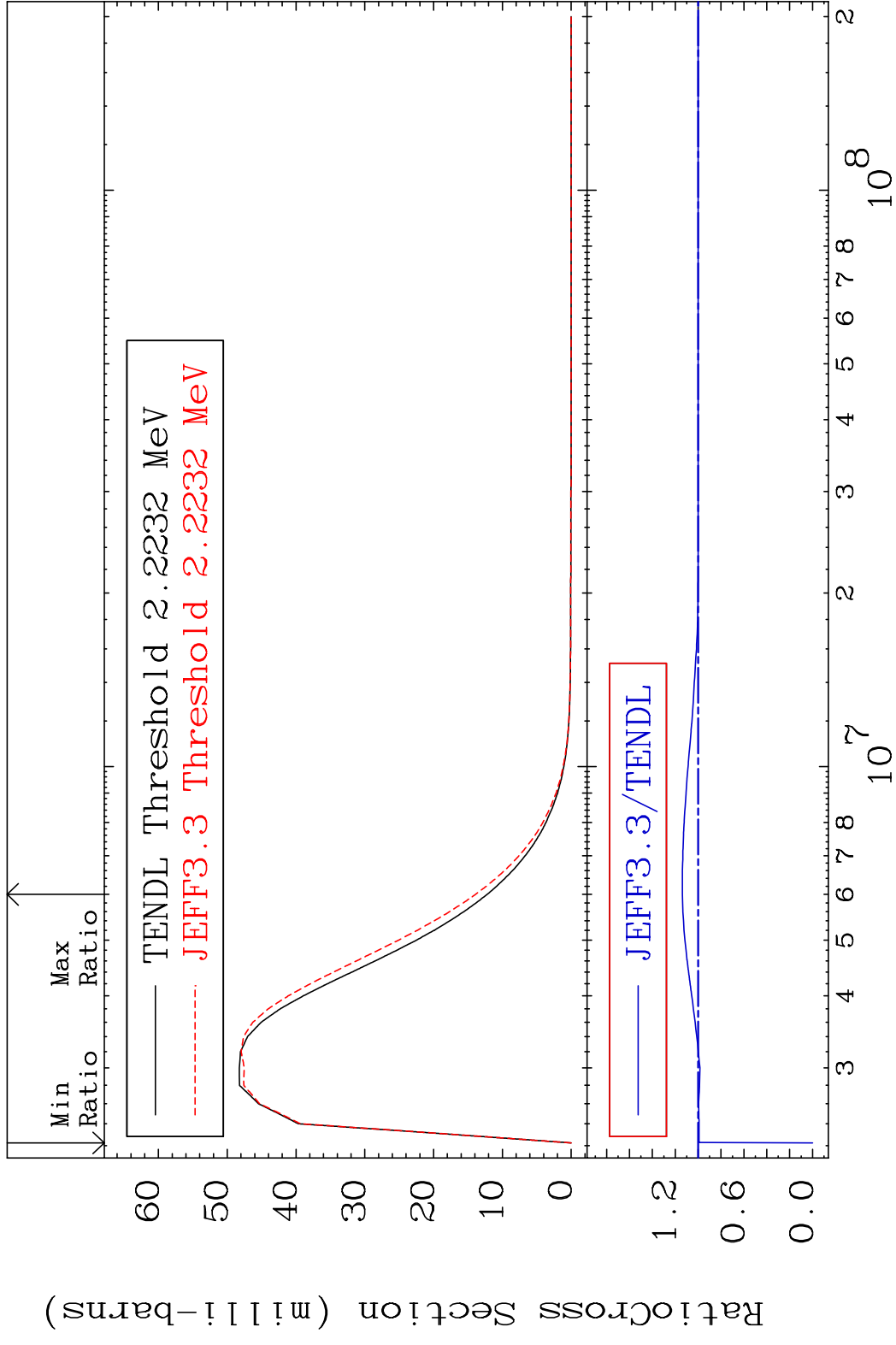


30 Incident Energy (eV) 23-V -49

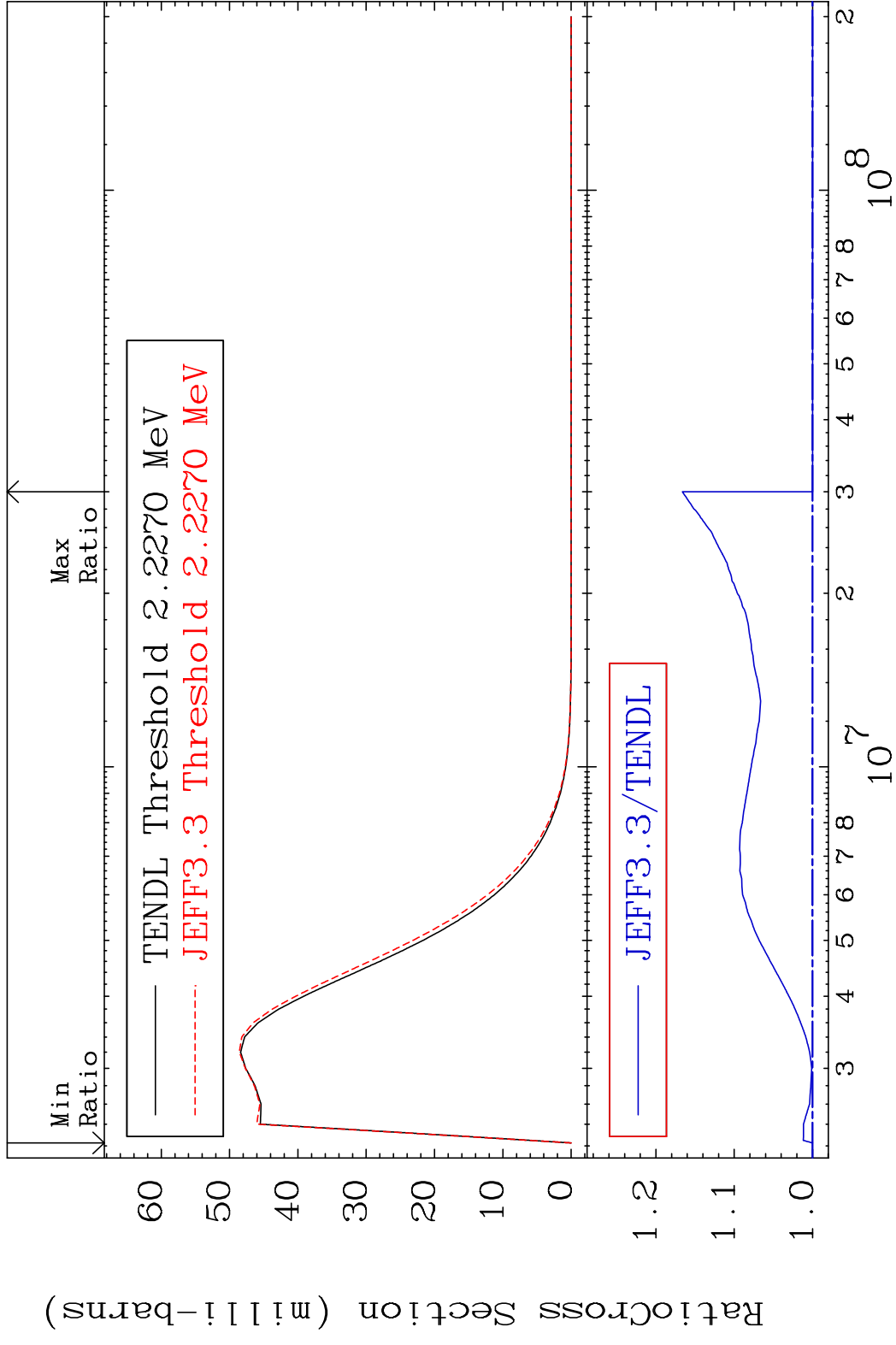
MAT 2322 MT= 64 (n, n') Level 23-V -49
 Cross Section -1.933 To 16.36 %



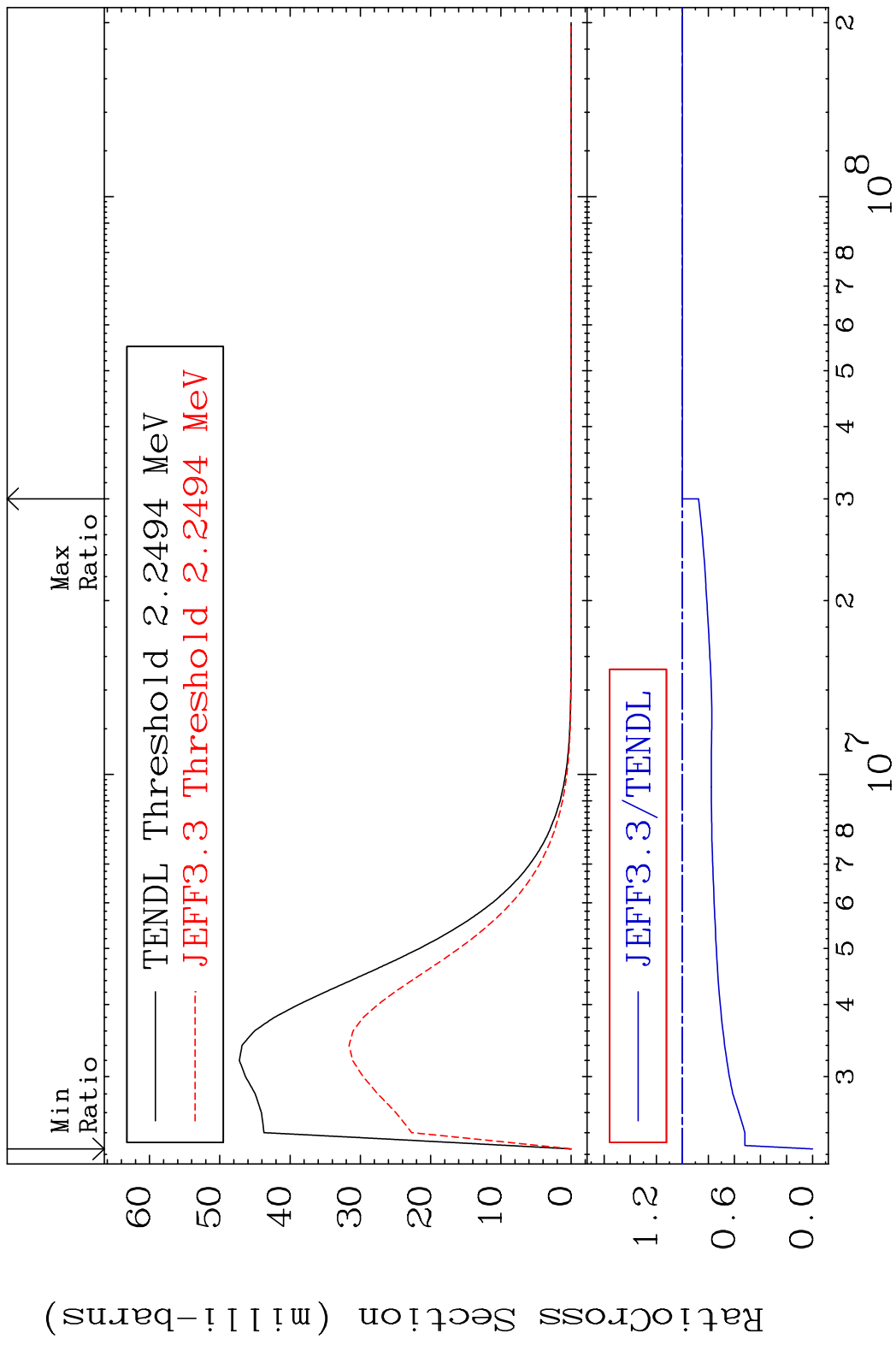
MAT 2322 MT= 65 (n, n') Level 23-V -49
 Cross Section -100.0 To 13.80 %



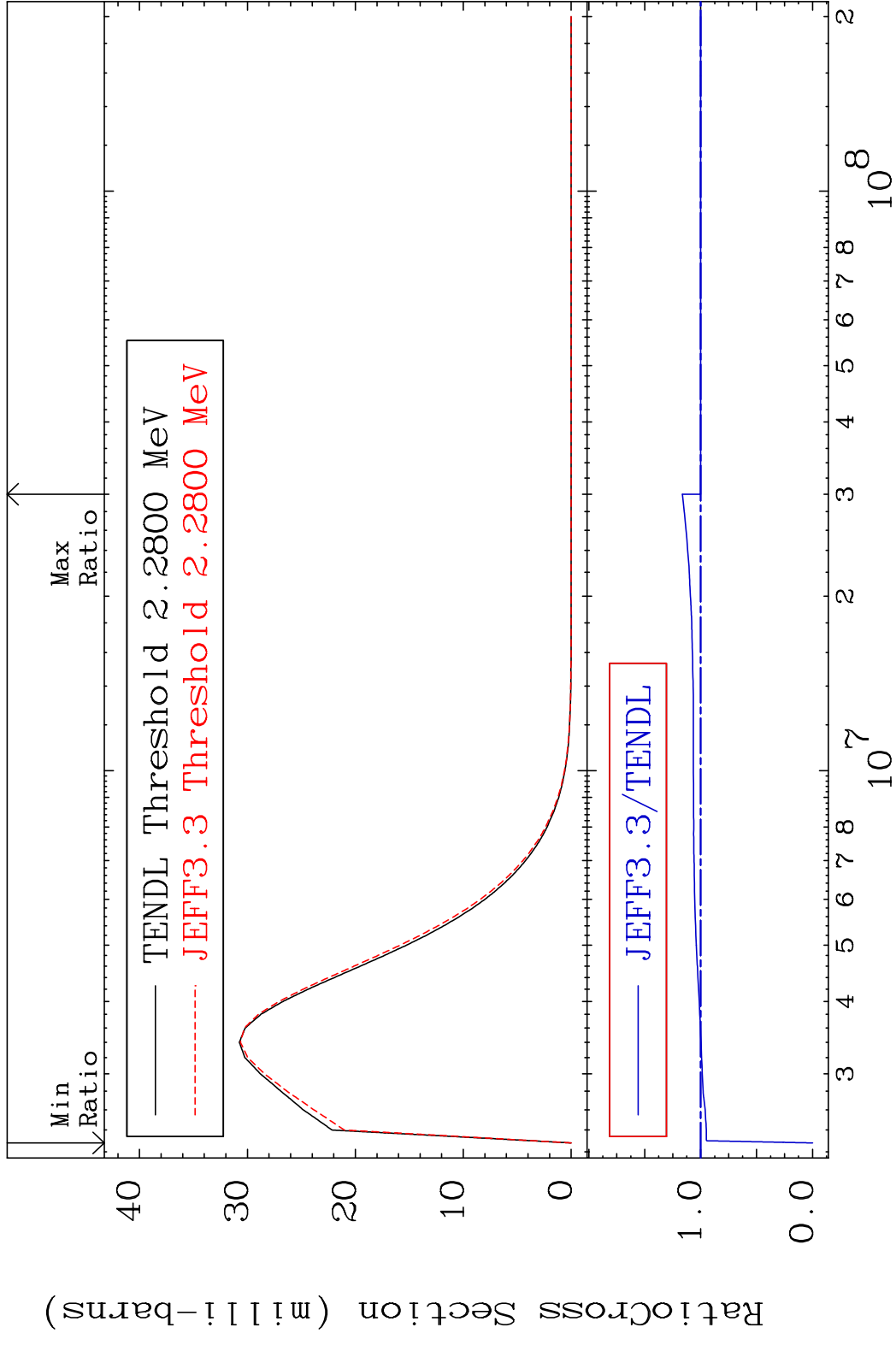
MAT 2322 MT= 66 (n, n') Level 23-V -49
 Cross Section 0.000 To 16.62 %



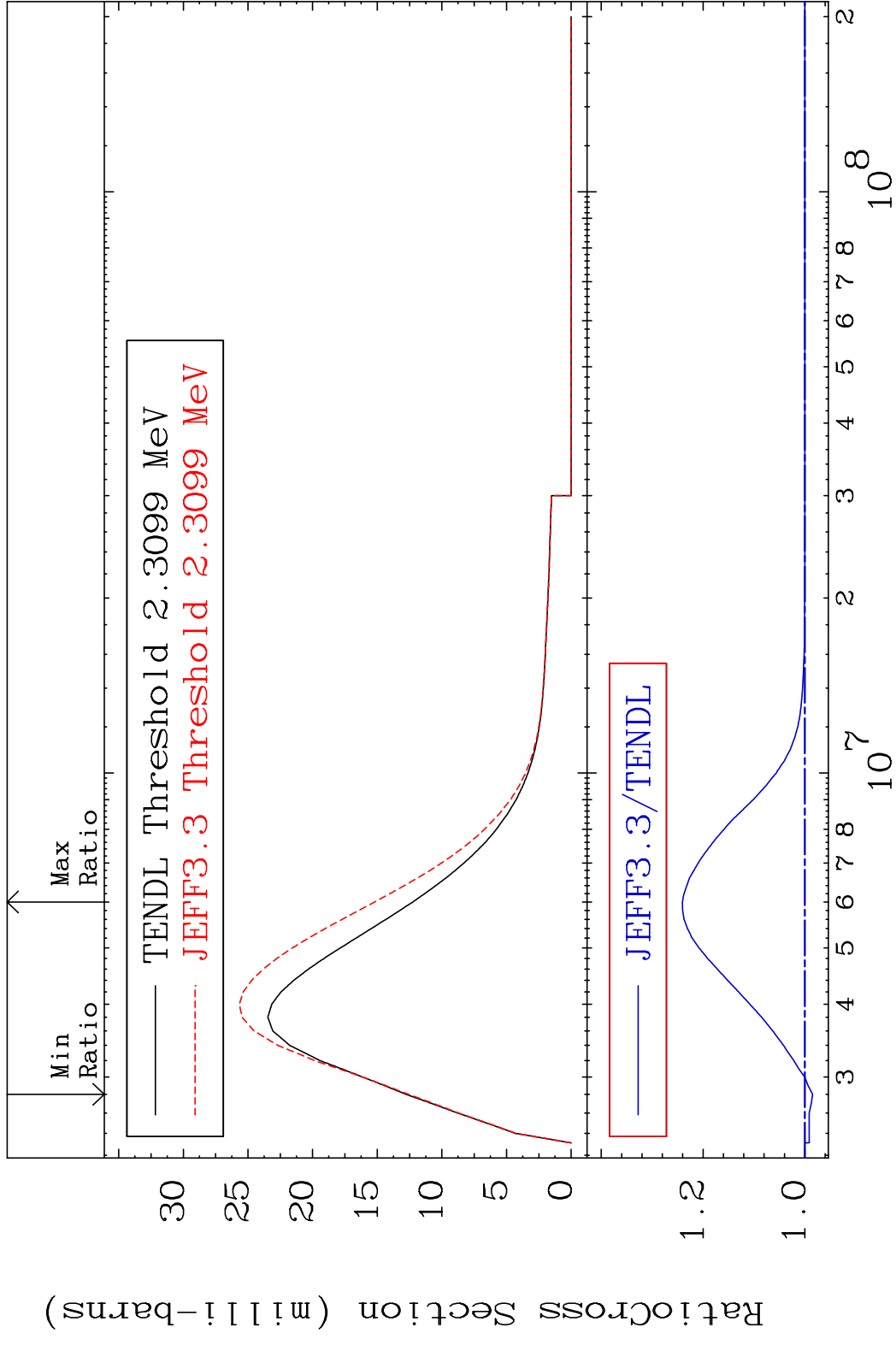
MAT 2322 MT= 67 (n, n') Level 23-V -49
 Cross Section -100.0 To 0.000 %



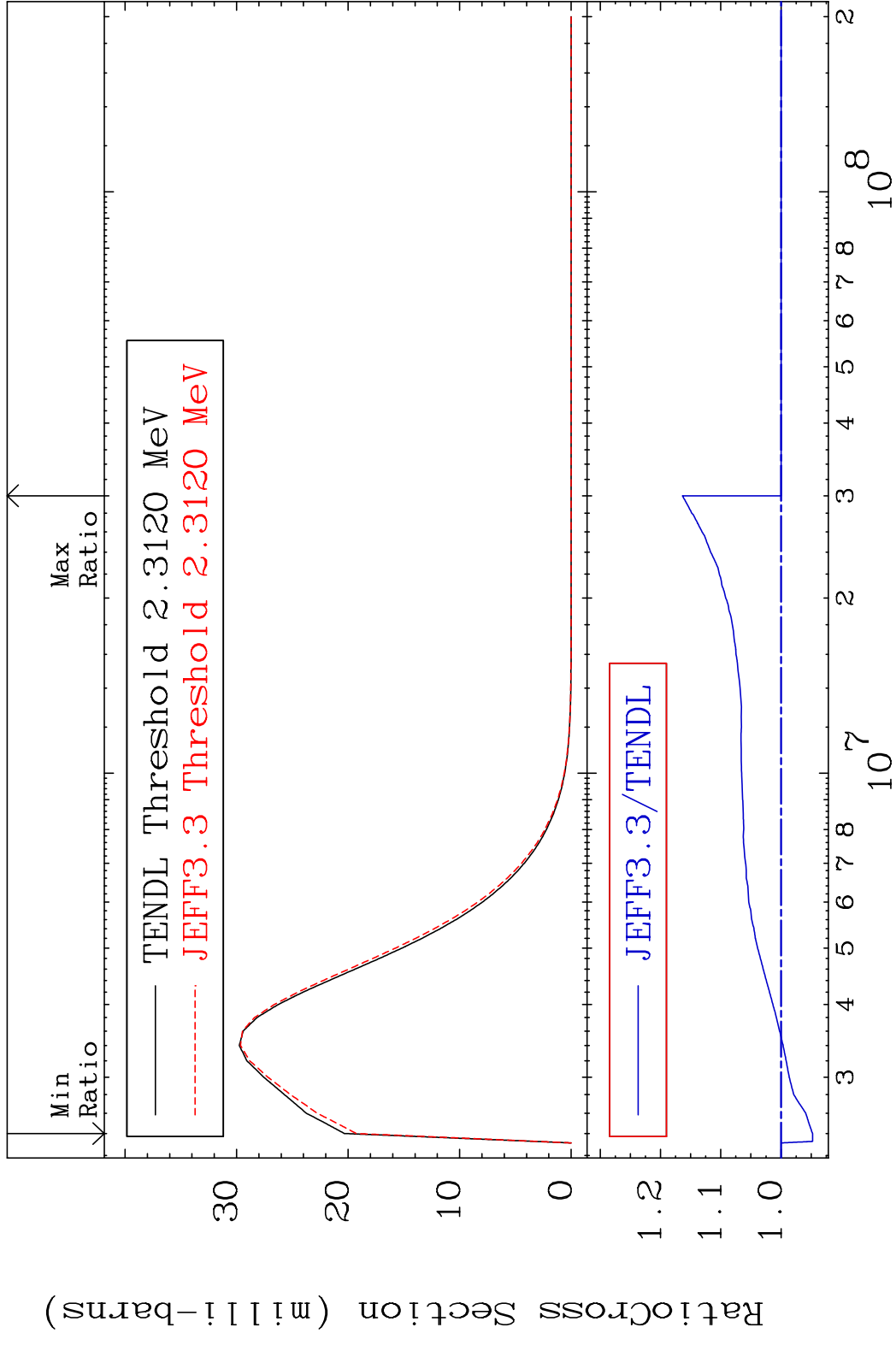
MAT 2322 MT= 68 (n, n') Level 23-V -49
 Cross Section -100.0 To 16.38 %



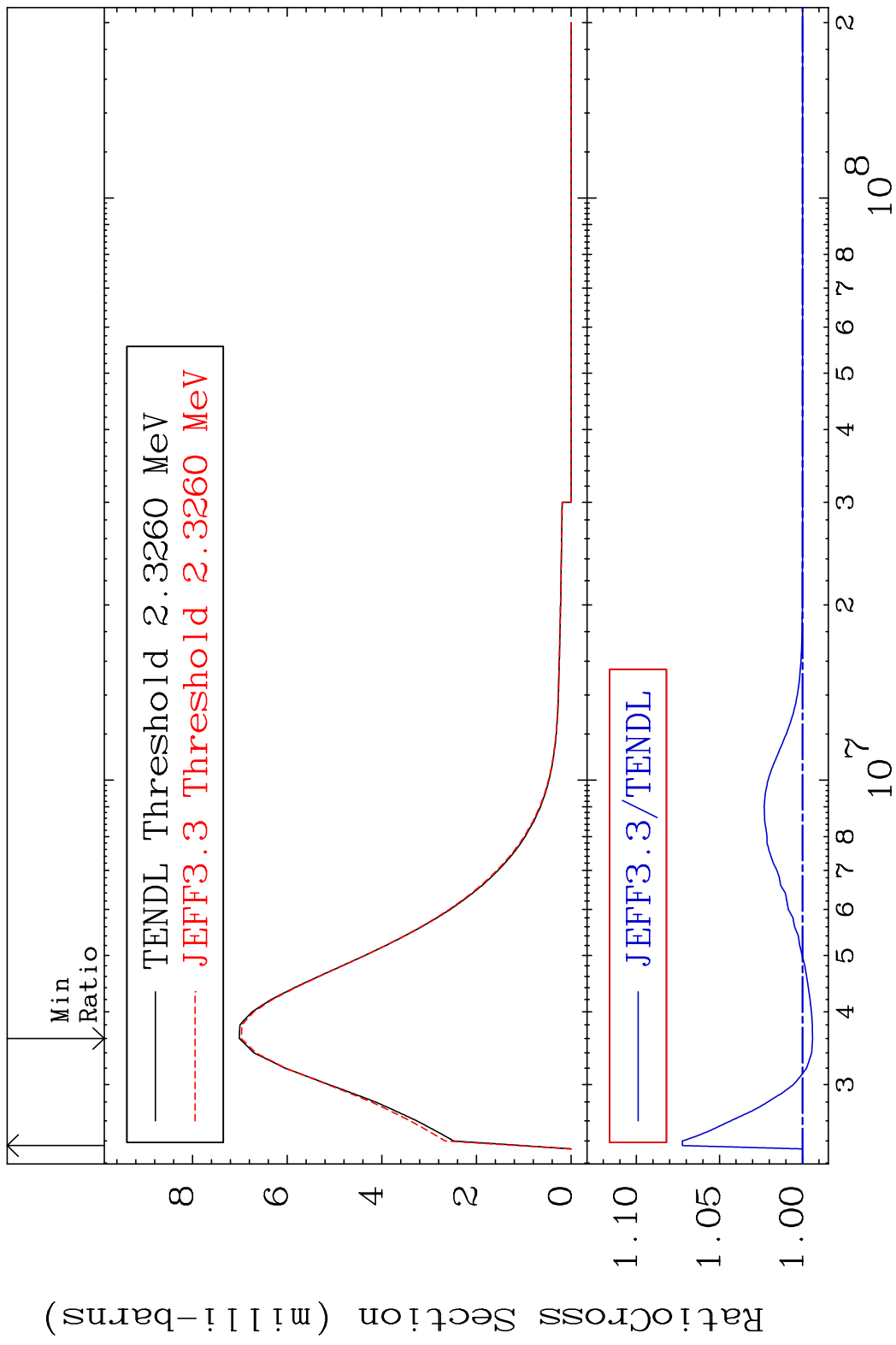
MAT 2322 MT= 69 (n, n') Level 23-V -49
 Cross Section -1.519 To 24.07 %



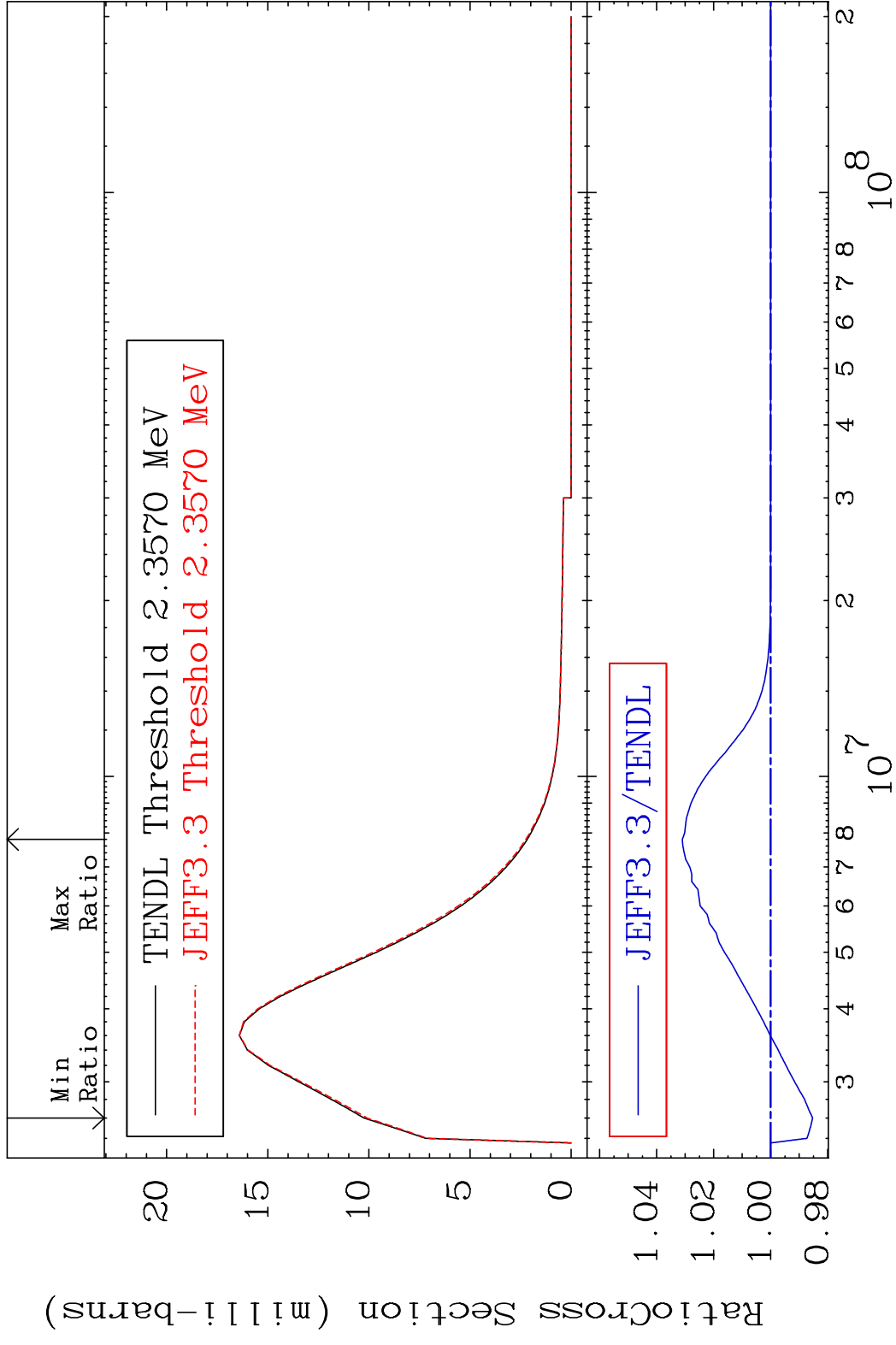
MAT 2322 MT= 70 (n, n') Level 23-V -49
 Cross Section -5.235 To 16.38 %



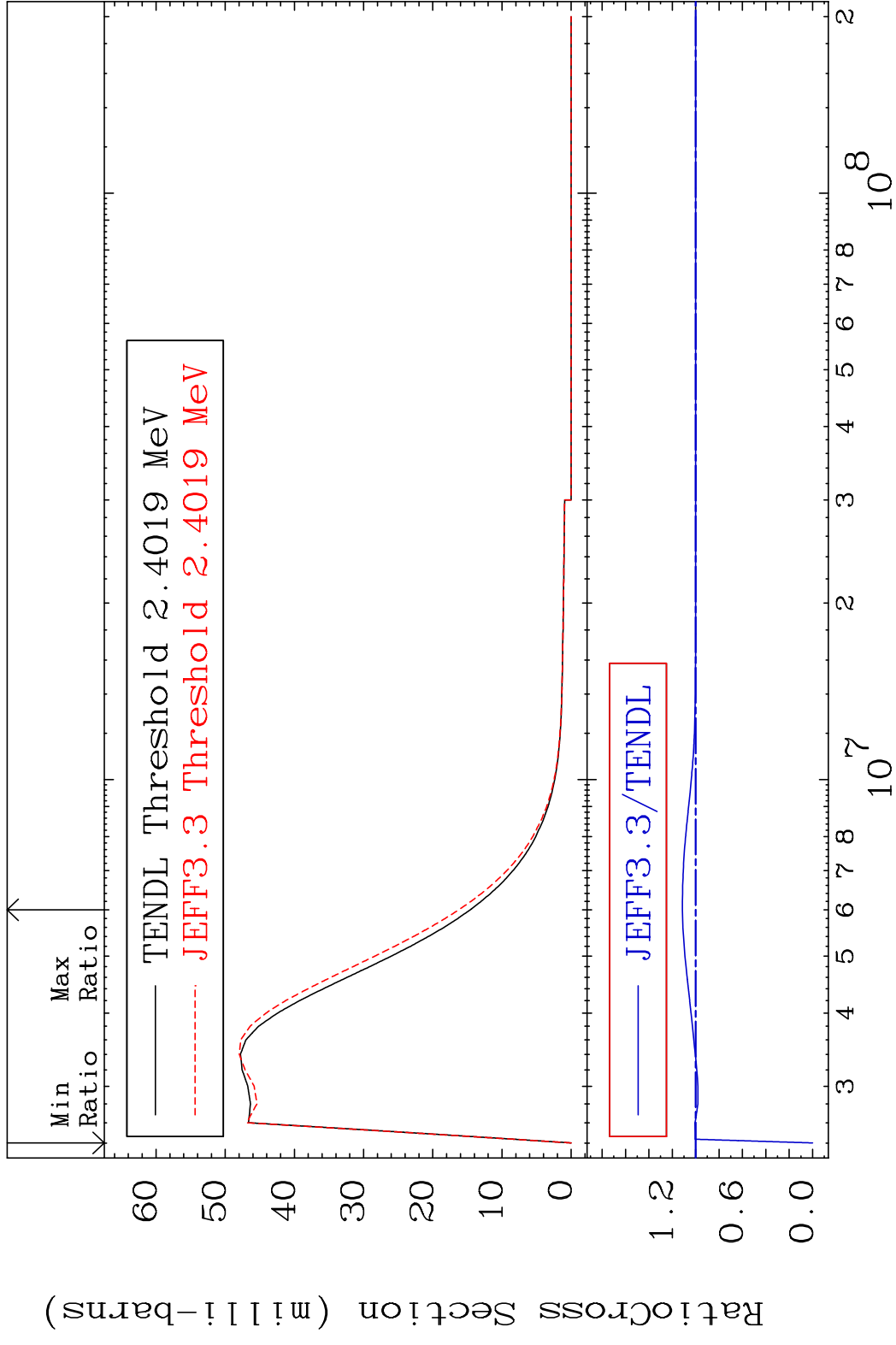
MAT 2322 MT= 71 (n,n') Level 23-V -49
 Cross Section -0.607 To 7.234 %



MAT 2322 MT= 72 (n, n') Level 23-V -49
 Cross Section -1.469 To 3.099 %

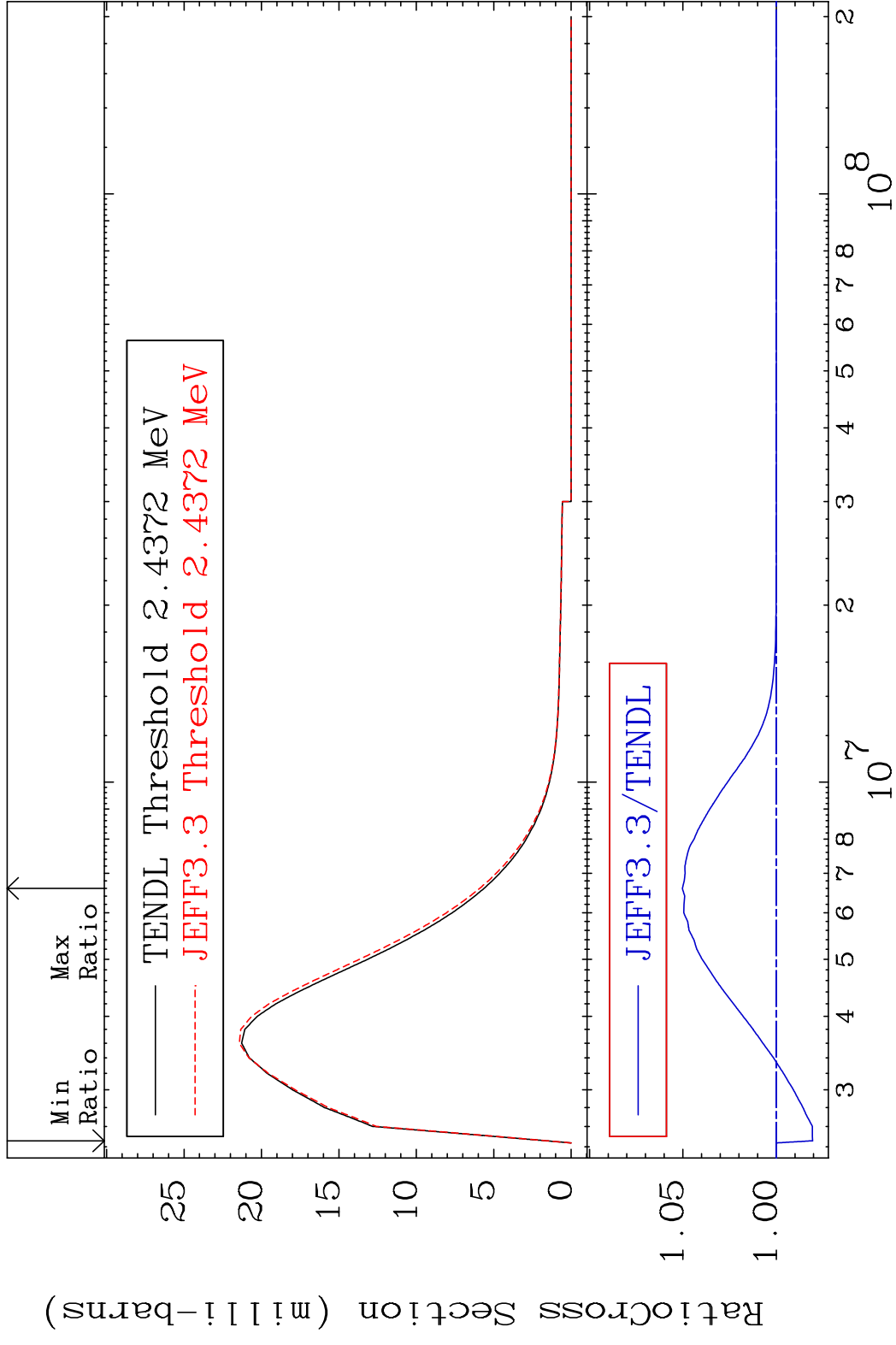


MAT 2322 MT= 73 (n, n') Level 23-V -49
 Cross Section -100.0 To 11.39 %

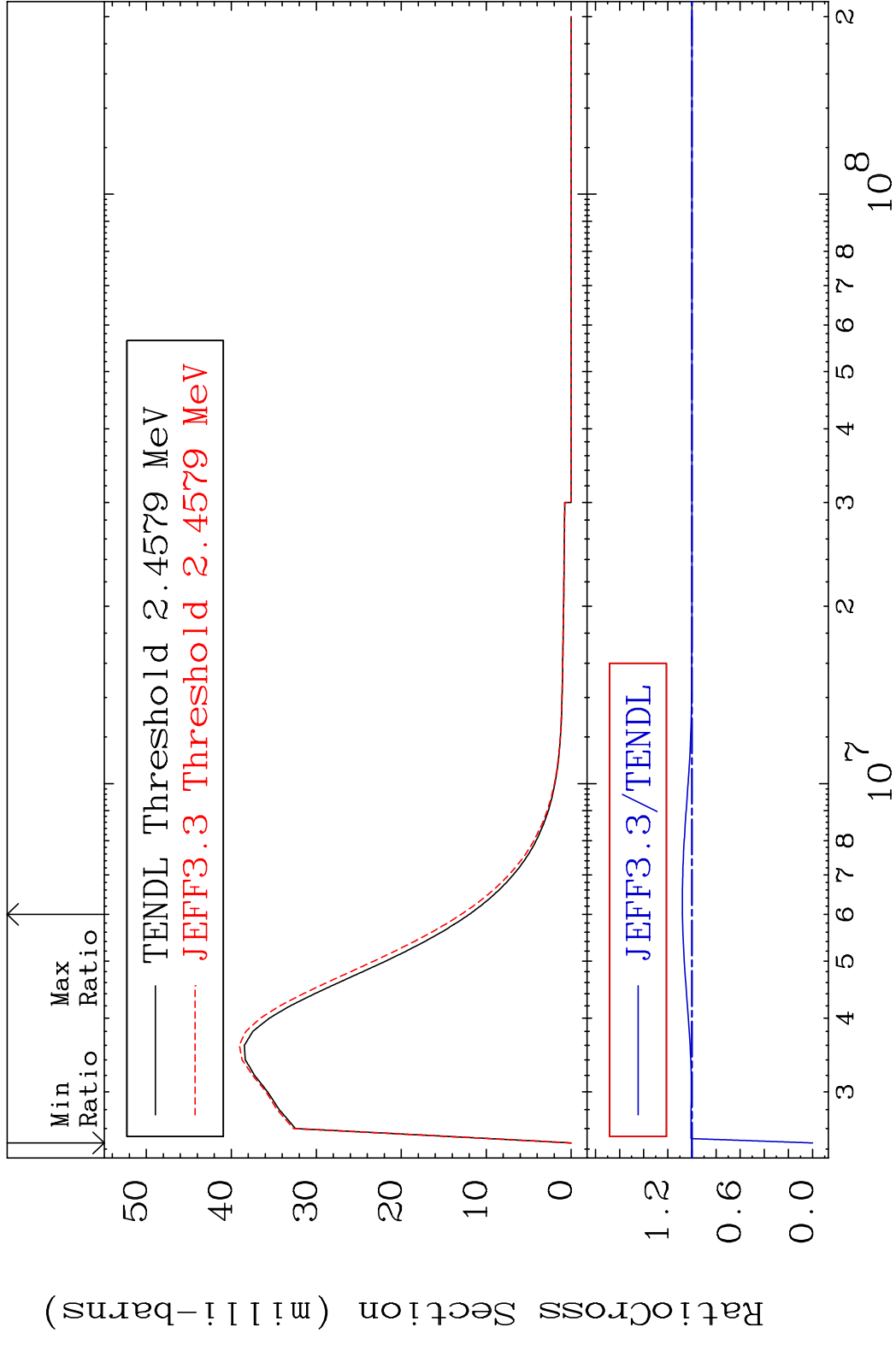


40 Incident Energy (eV) 23-V -49

MAT 2322 MT= 74 (n,n') Level 23-V -49
 Cross Section -1.943 To 5.028 %



MAT 2322 MT= 75 (n, n') Level 23-V -49
 Cross Section -100.0 To 7.948 %

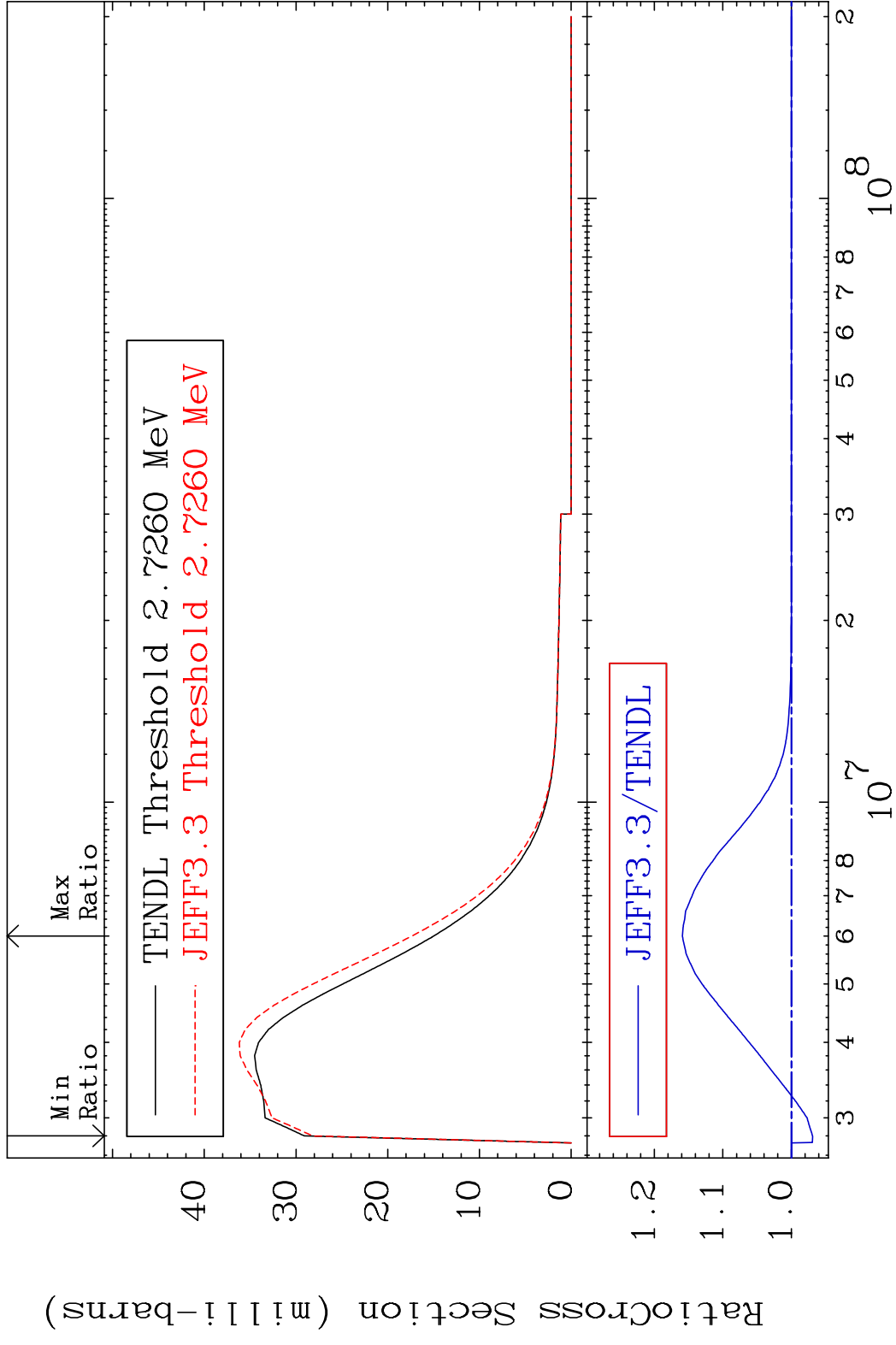


MAT 2322

MT= 76 (n, n') Level

23-V -49

Cross Section -3.090 To 15.91 %

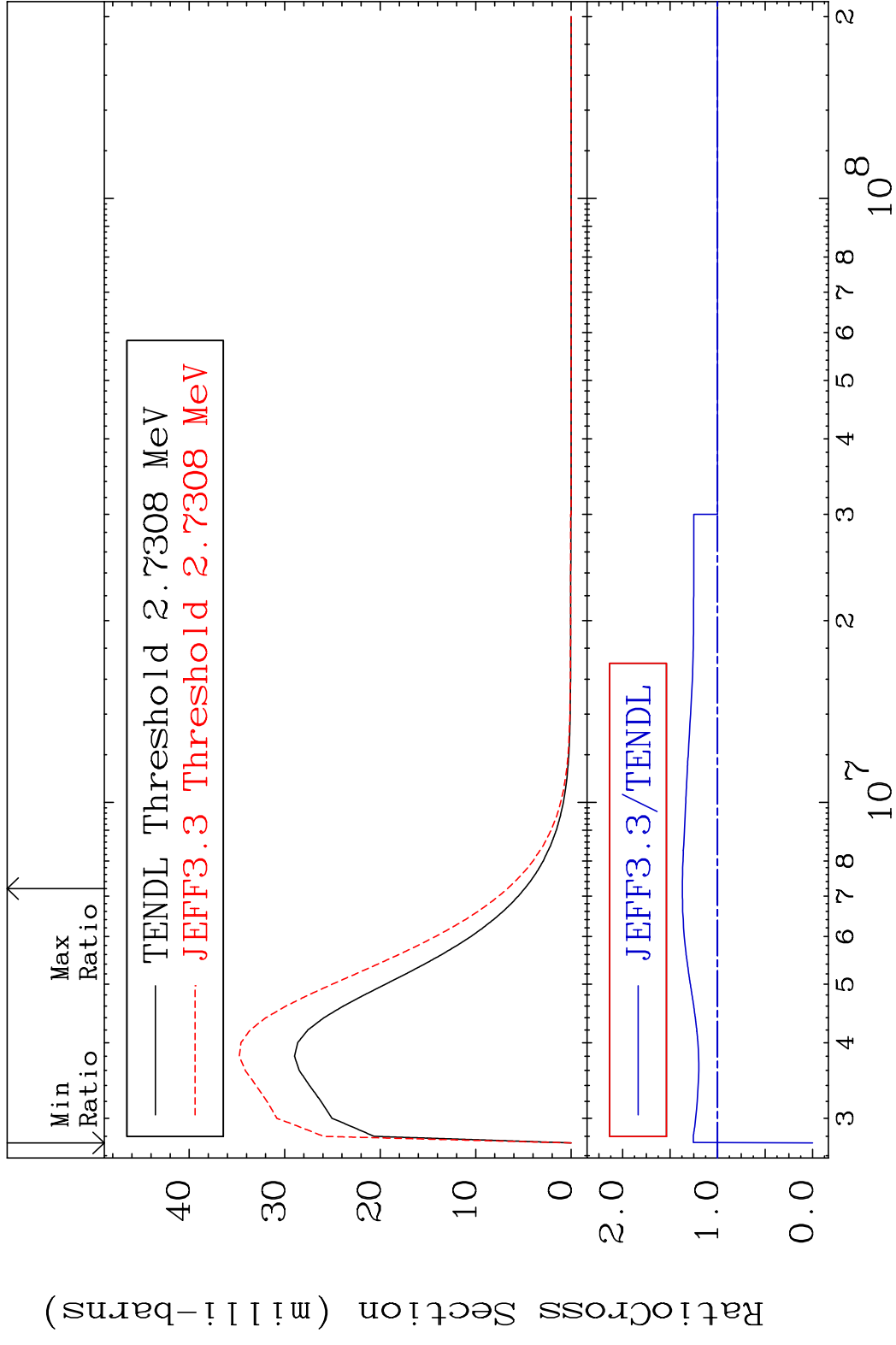


43

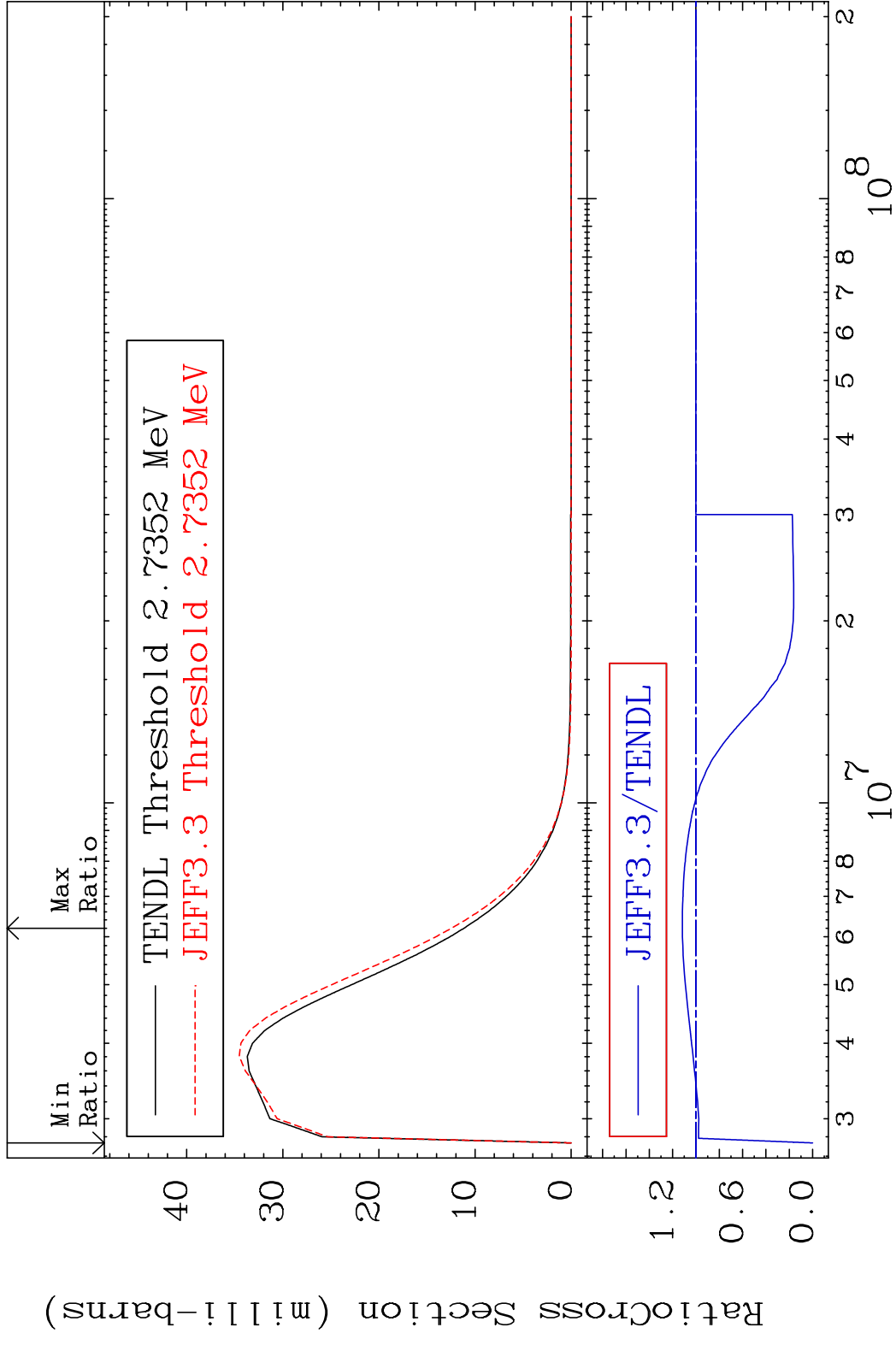
Incident Energy (eV)

23-V -49

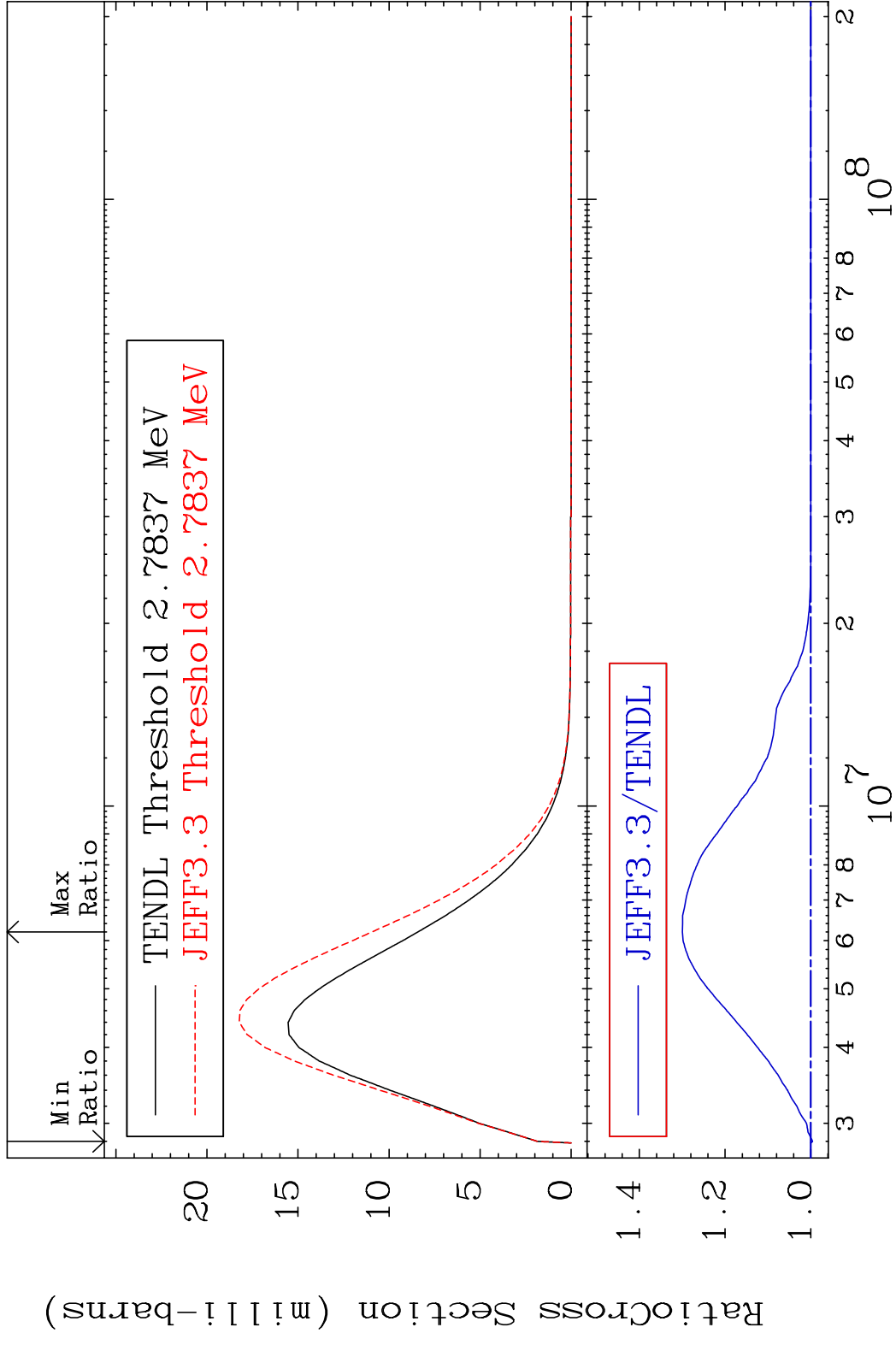
MAT 2322 MT= 77 (n, n') Level 23-V -49
 Cross Section -100.0 To 37.10 %



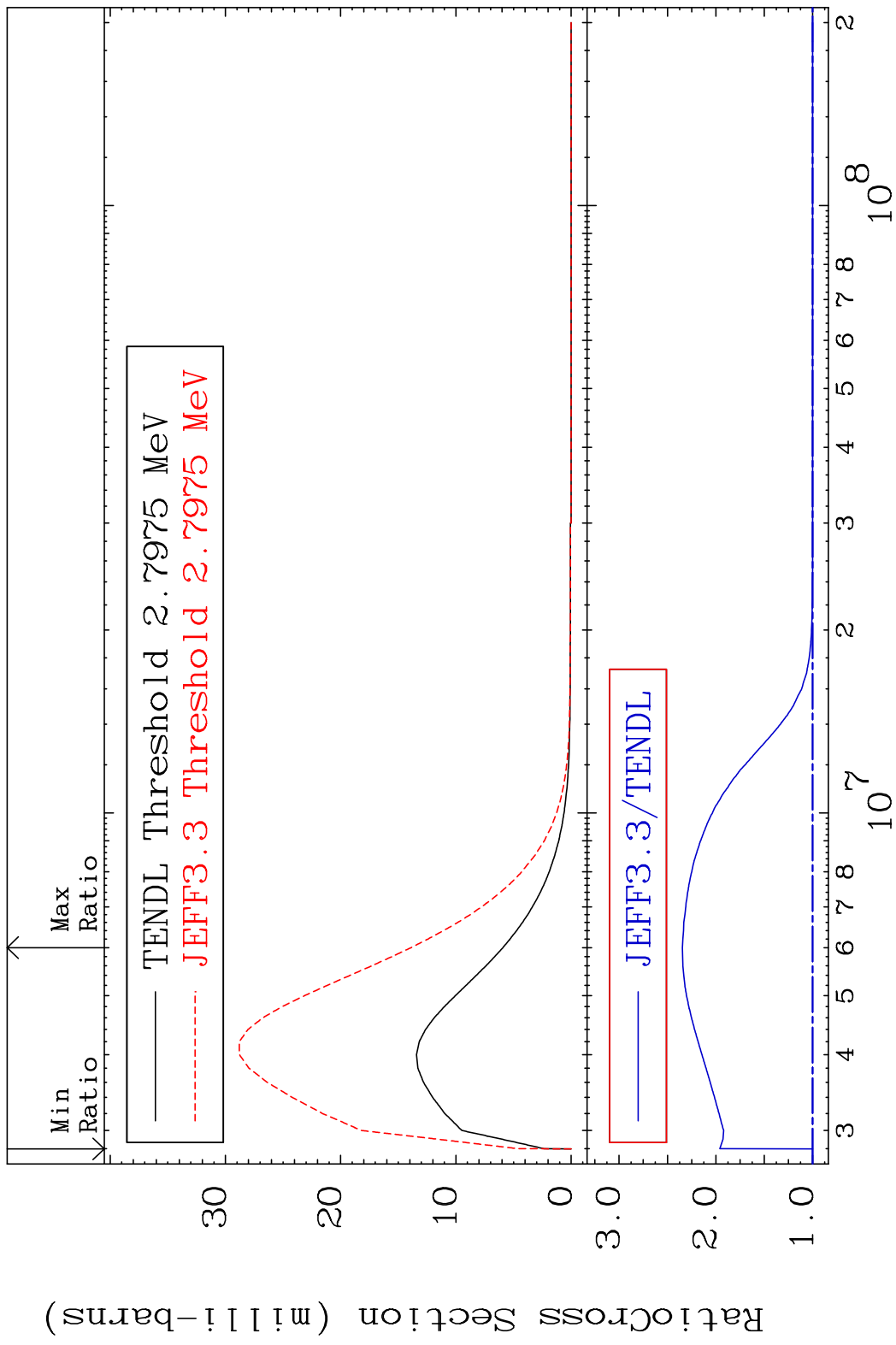
MAT 2322 MT= 78 (n, n') Level 23-V -49
 Cross Section -100.0 To 11.65 %



MAT 2322 MT= 79 (n, n') Level 23-V -49
 Cross Section -0.398 To 29.98 %



MAT 2322 MT= 80 (n,n') Level 23-V -49
 Cross Section 0.000 To 134.6 %

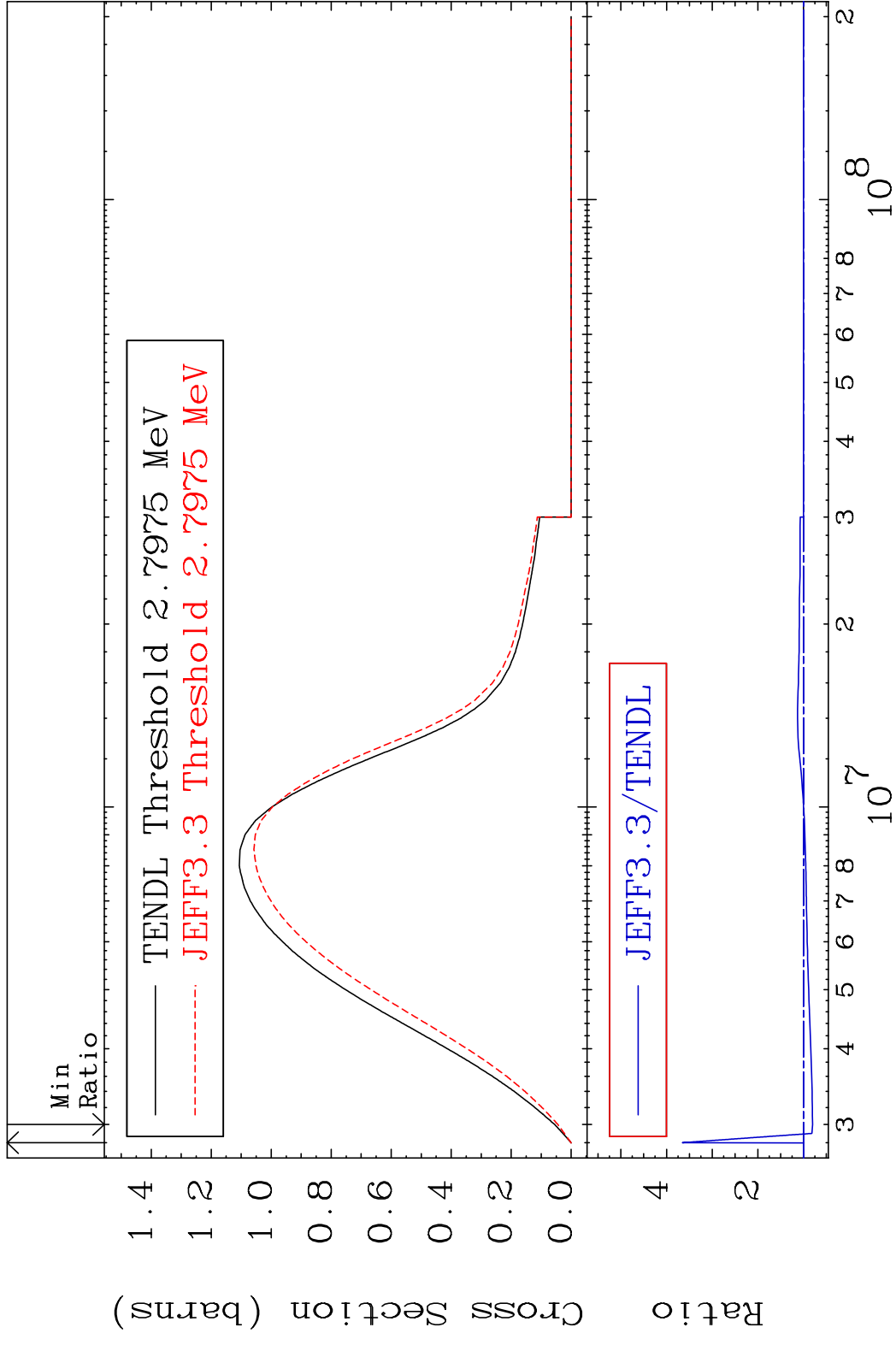


MAT 2322

(n,n') Continuum

23-V -49

Cross Section -19.83 To 265.4 %



48

Incident Energy (eV)

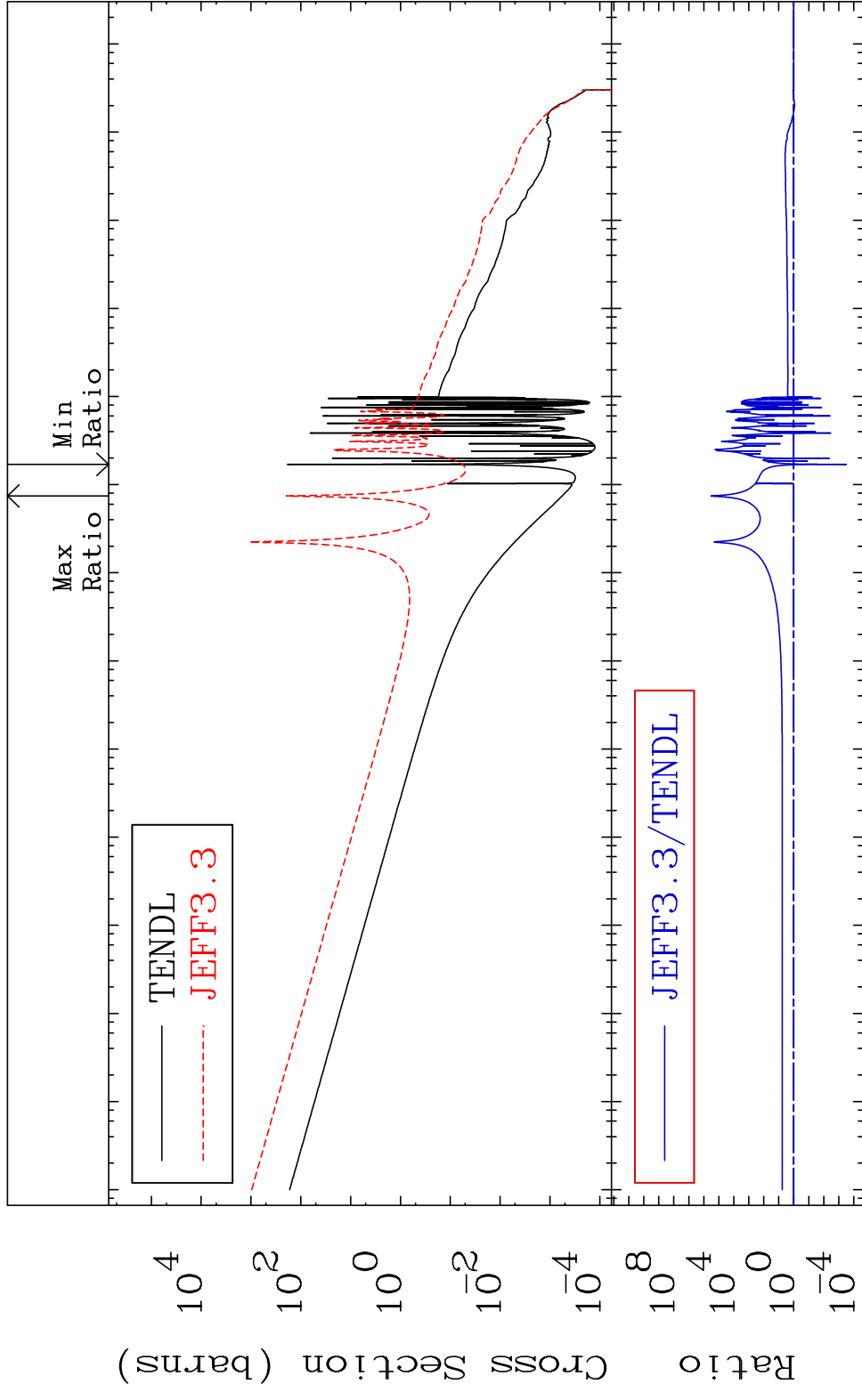
23-V -49

MAT 2322

(n, γ)

23-V -49

Cross Section -99.97 To 9999. %



49

Incident Energy (eV)

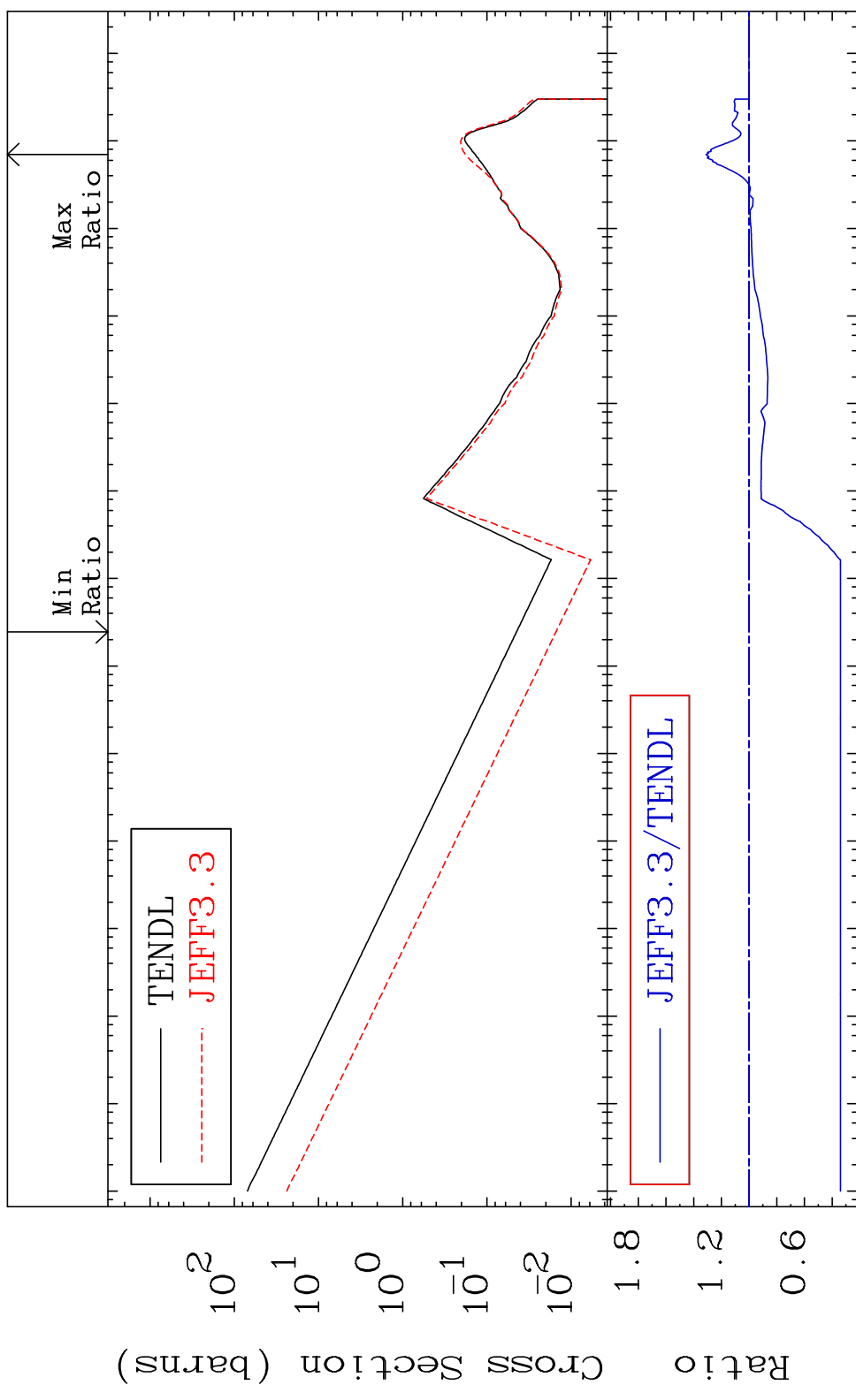
23-V -49

MAT 2322

(n, p)

23-V -49

Cross Section -65.98 To 31.27 %



10² 10¹ 10⁰ 10⁻¹ 10⁻² 1.8 1.2 0.6

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

50

Incident Energy (eV)

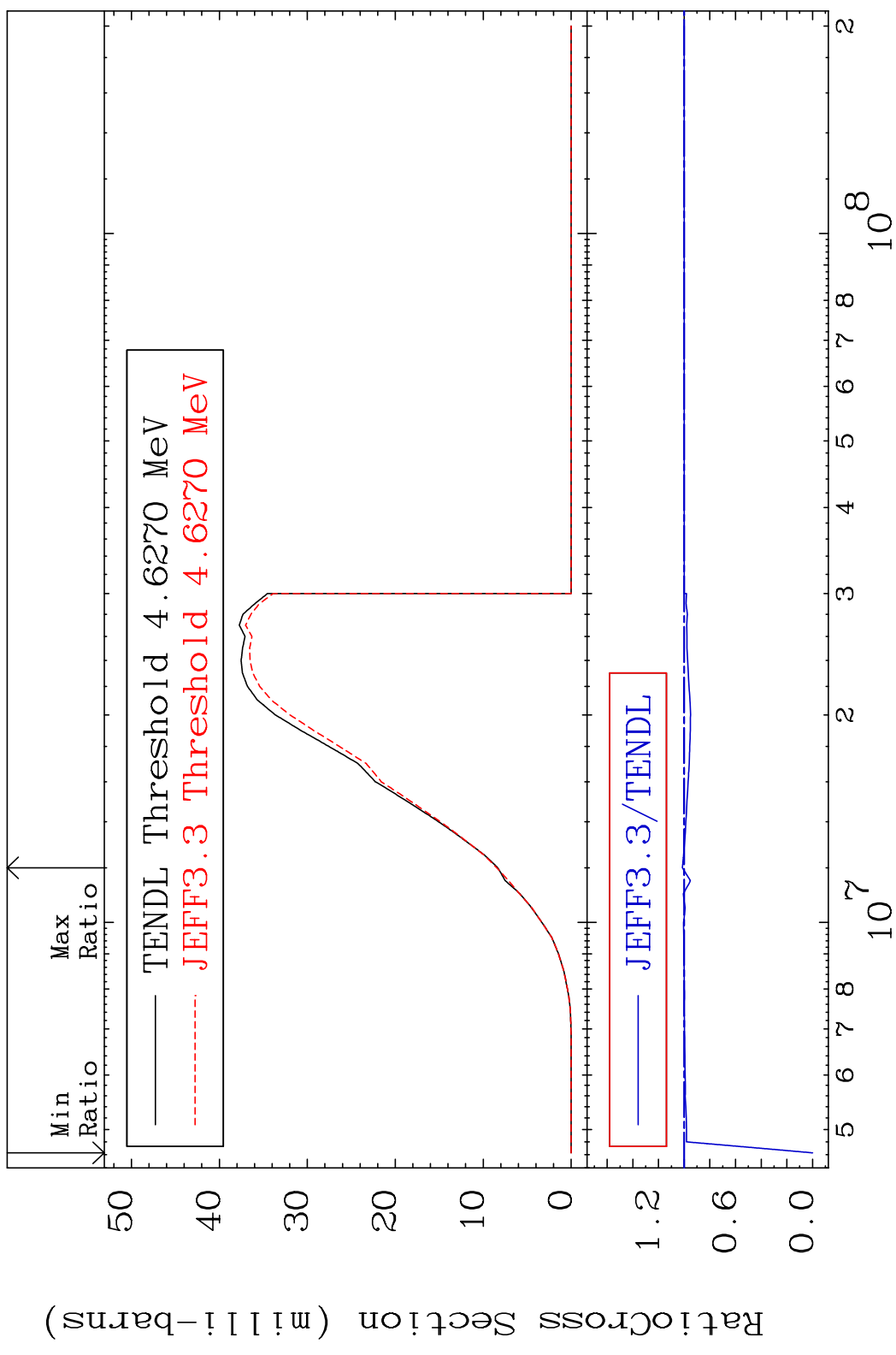
23-V -49

MAT 2322

(n, d)

23-V -49

Cross Section -100.0 To 1.436 %

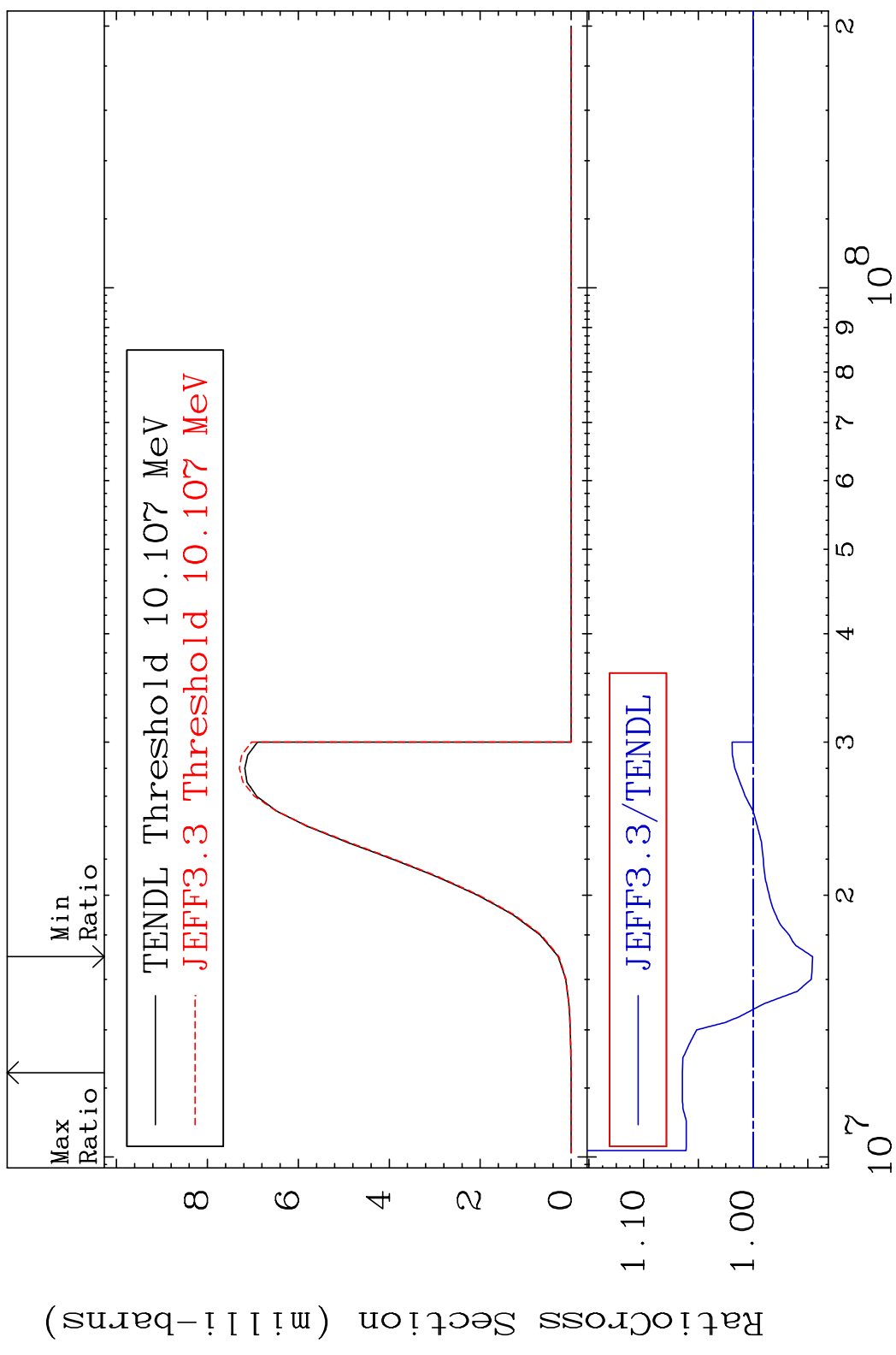


MAT 2322

(n, t)

23-V -49

Cross Section -5.425 To 6.467 %



52

Incident Energy (eV)

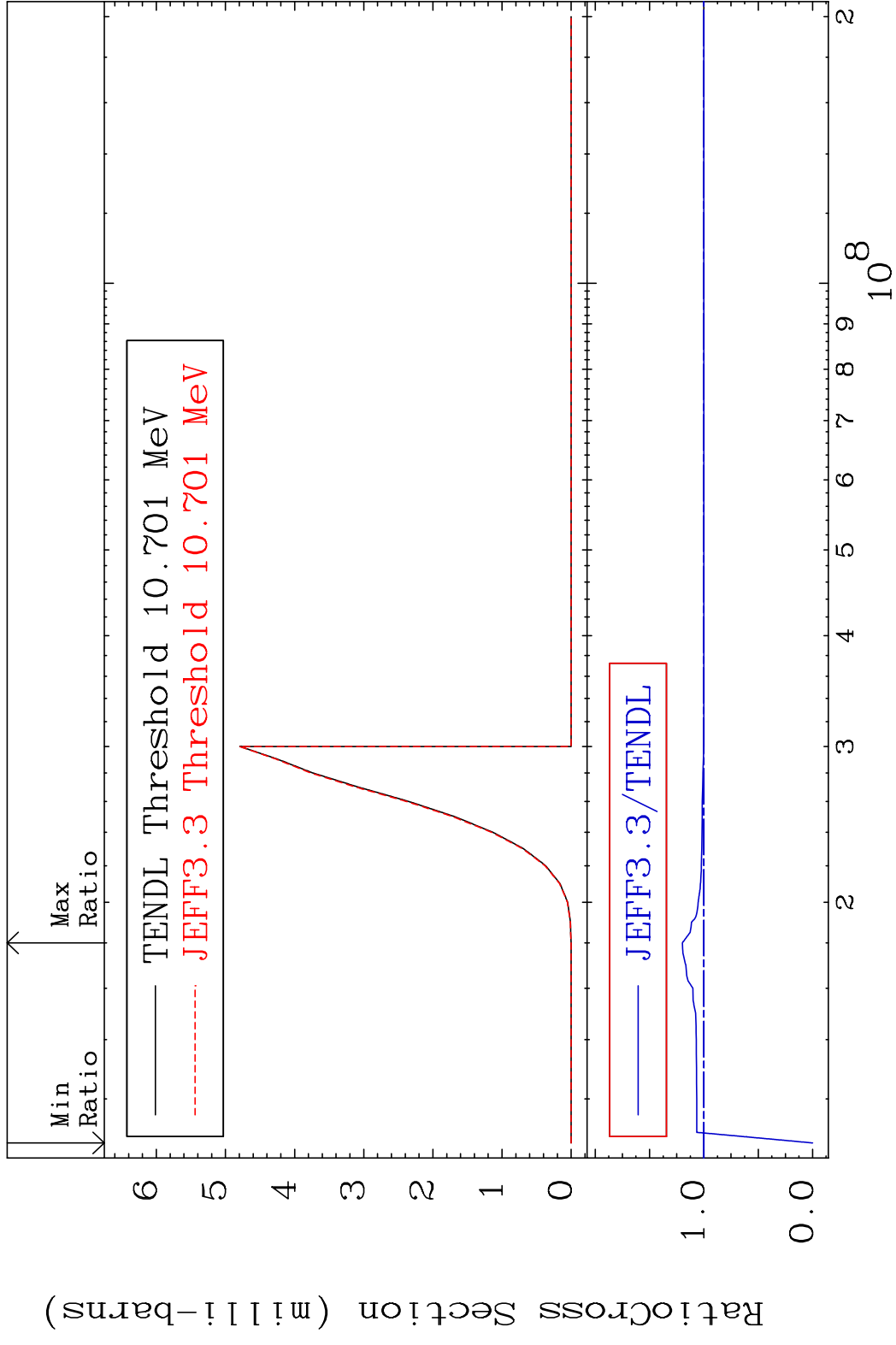
23-V -49

MAT 2322

(n, He-3)

23-V -49

Cross Section -100.0 To 19.81 %

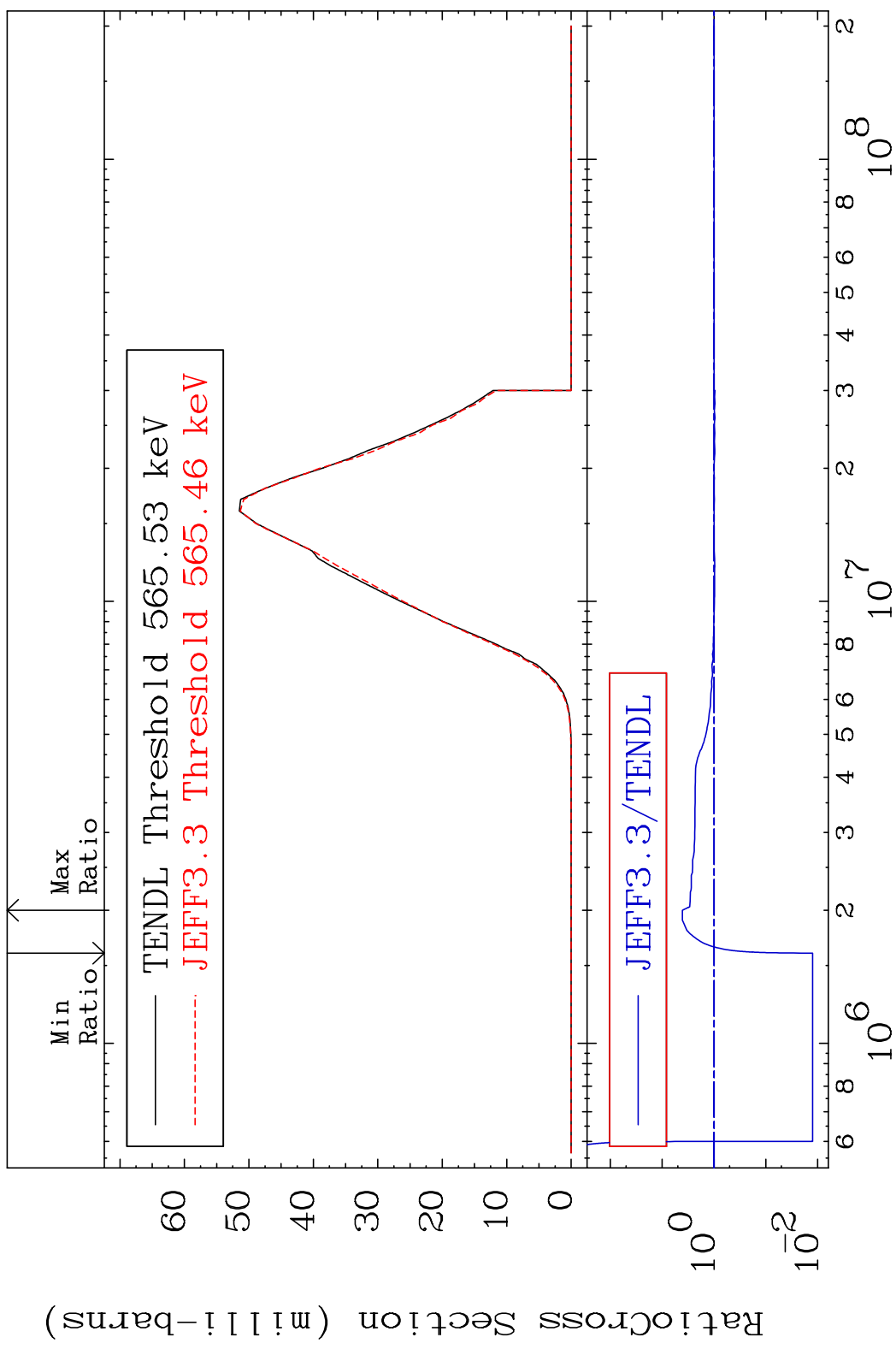


MAT 2322

(n, α)

23-V -49

Cross Section -98.74 To 308.5 %

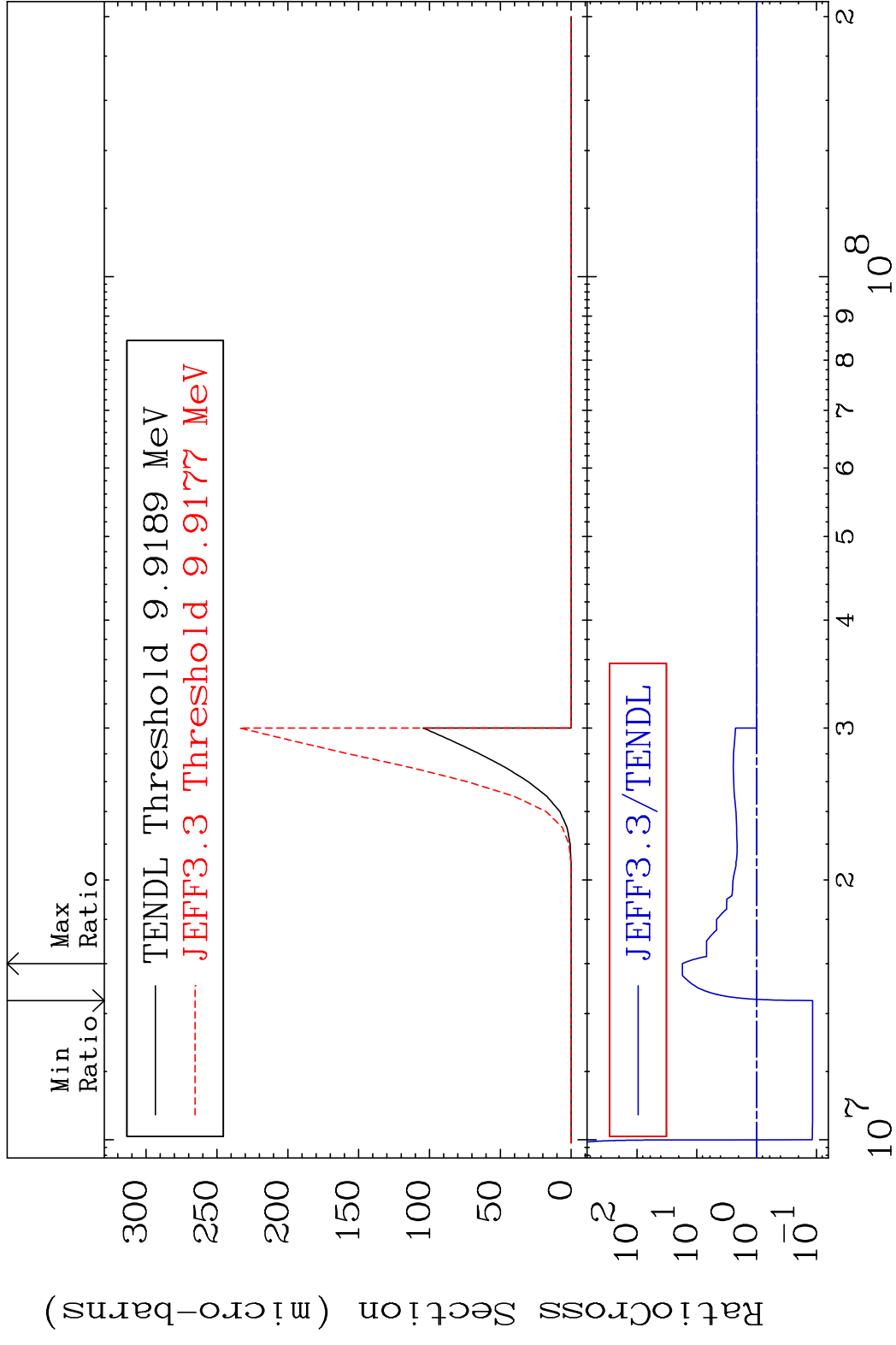


MAT 2322

(n,2α)

23-V -49

Cross Section -88.41 To 1640. %



55

Incident Energy (eV)

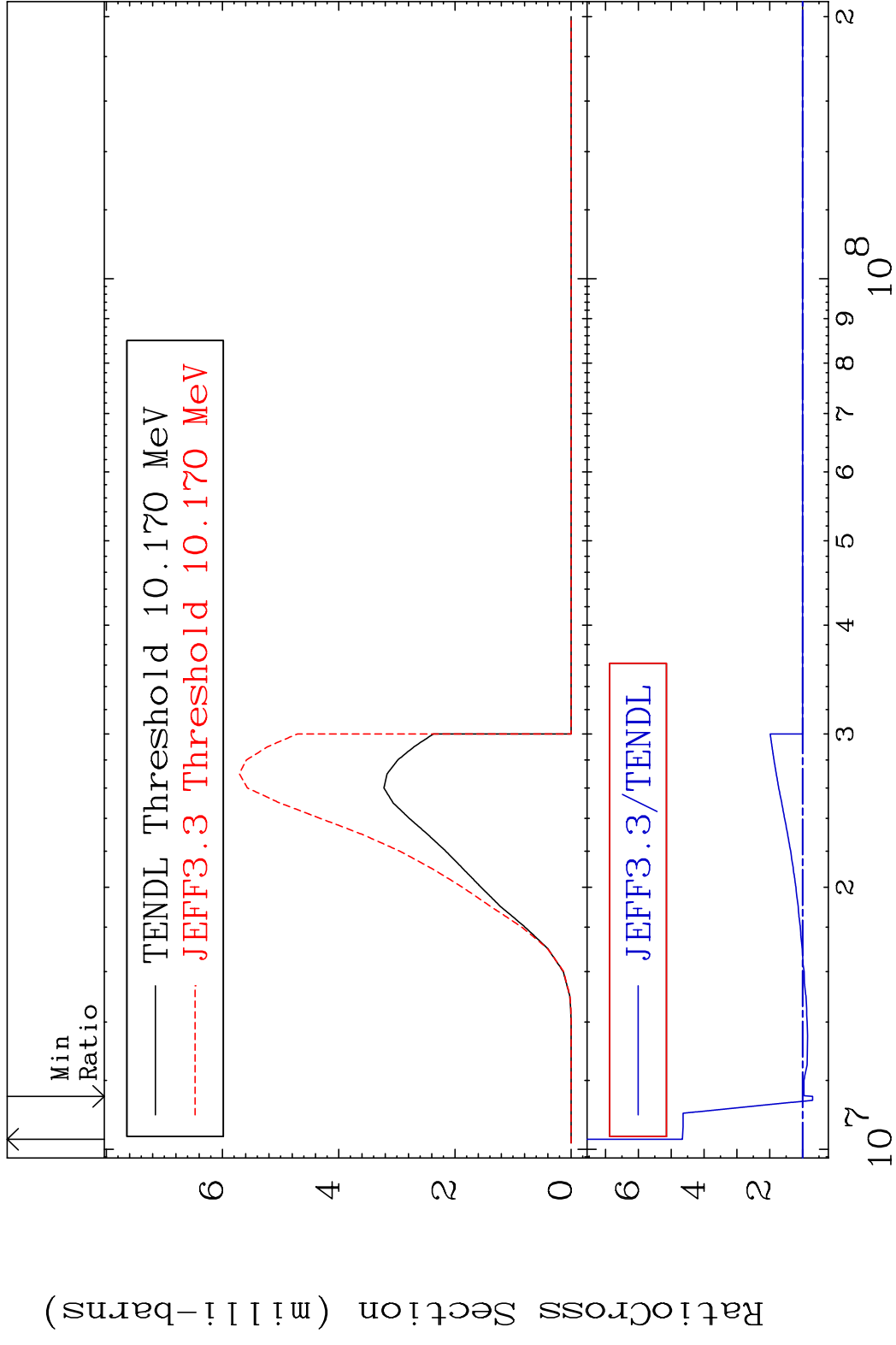
23-V -49

MAT 2322

(n,2p)

23-V -49

Cross Section -30.10 To 366.3 %



56

Incident Energy (eV)

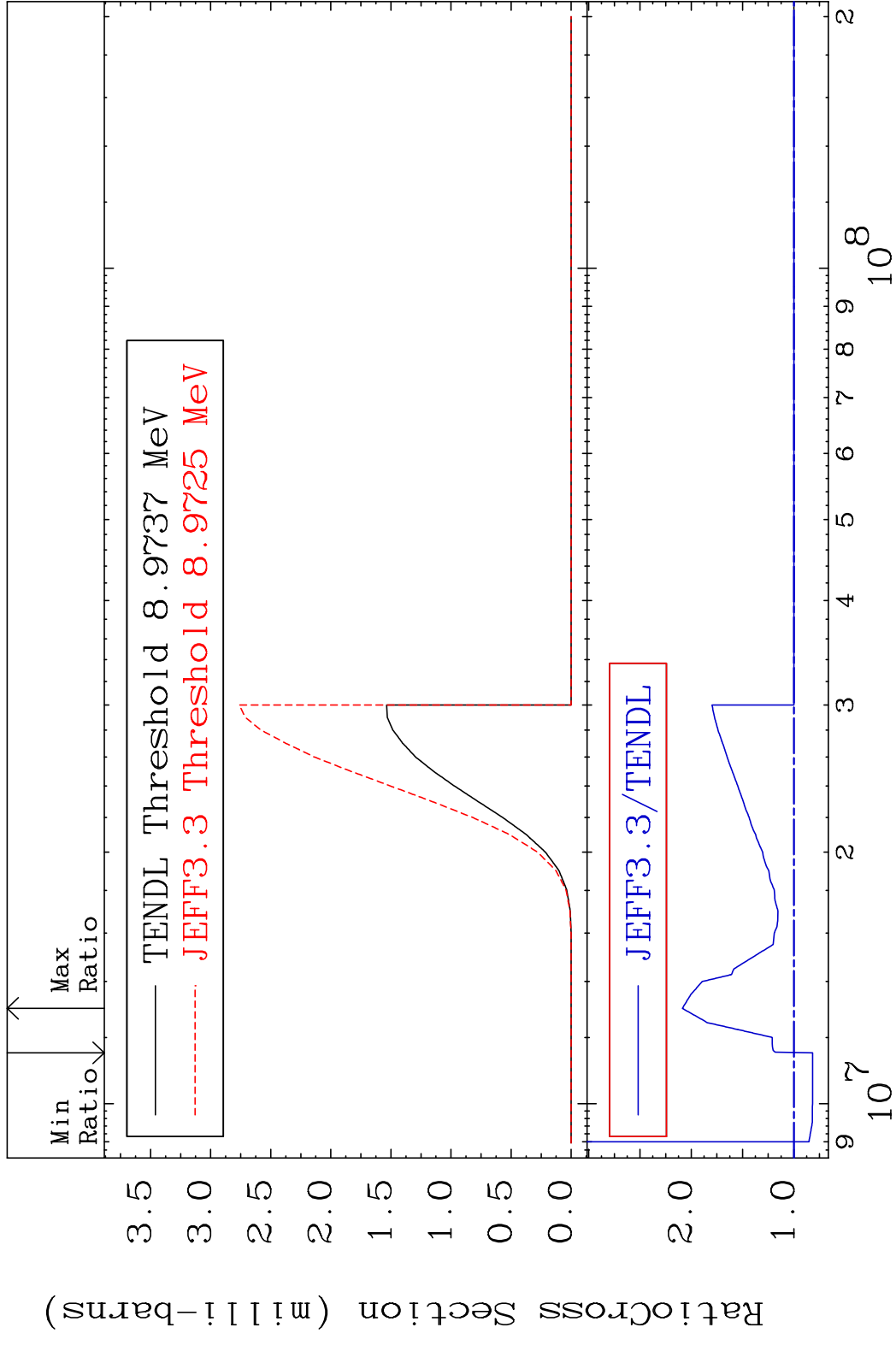
23-V -49

MAT 2322

(n,p) α

23-V -49

Cross Section -18.24 To 108.7 %

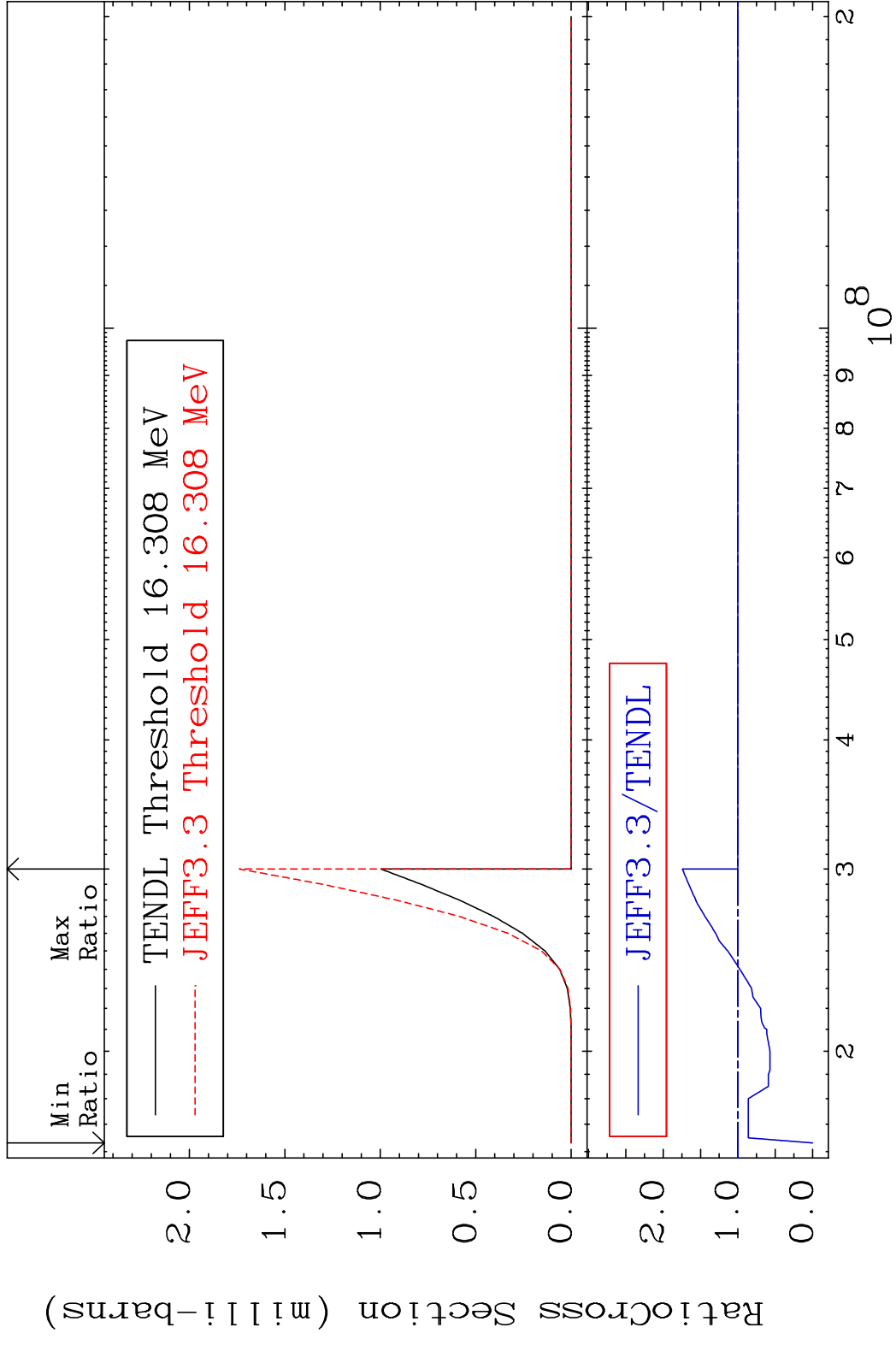


57

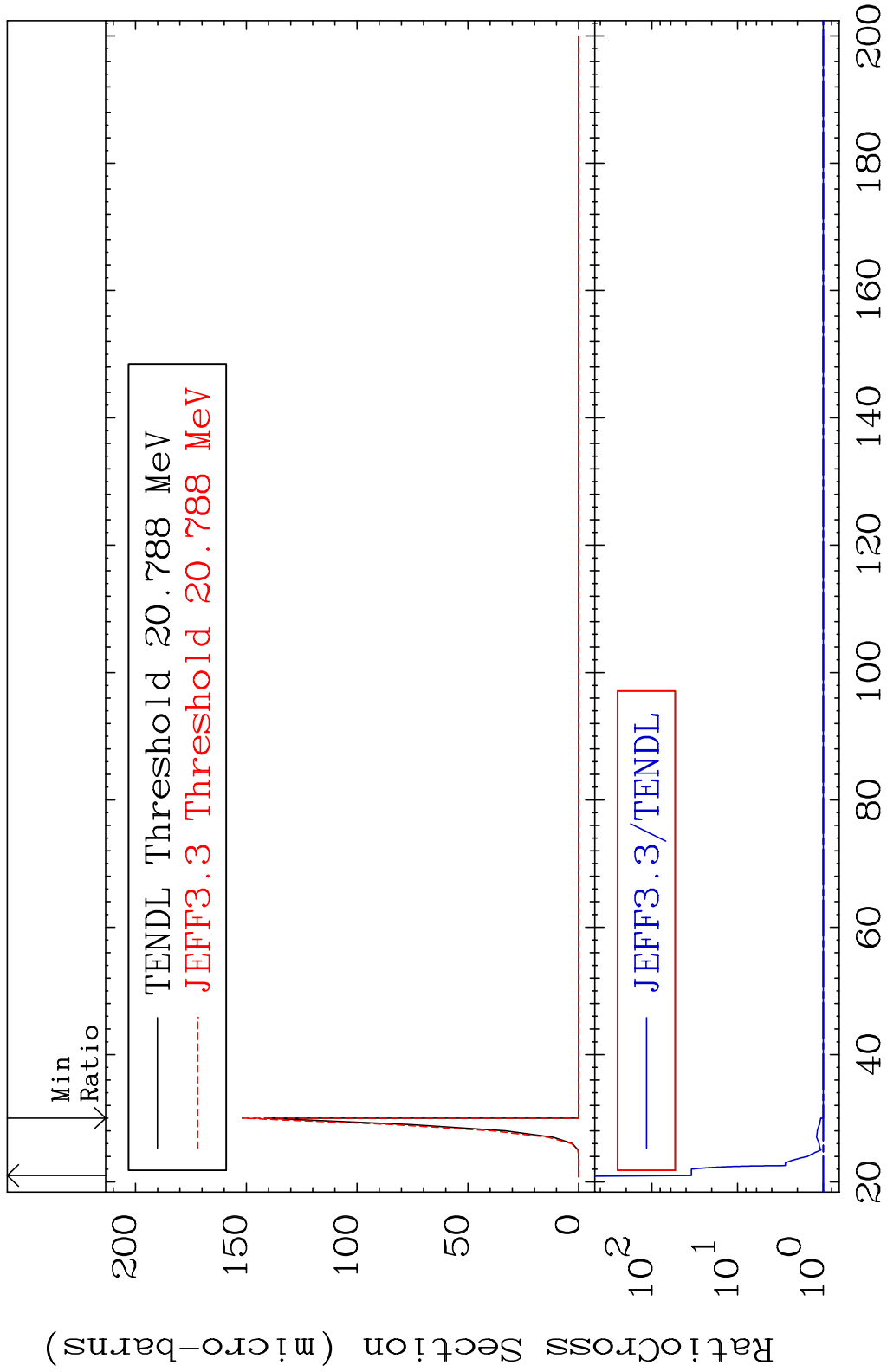
Incident Energy (eV)

23-V -49

MAT 2322 (n,p) d 23-V -49
 Cross Section -100.0 To 74.37 %

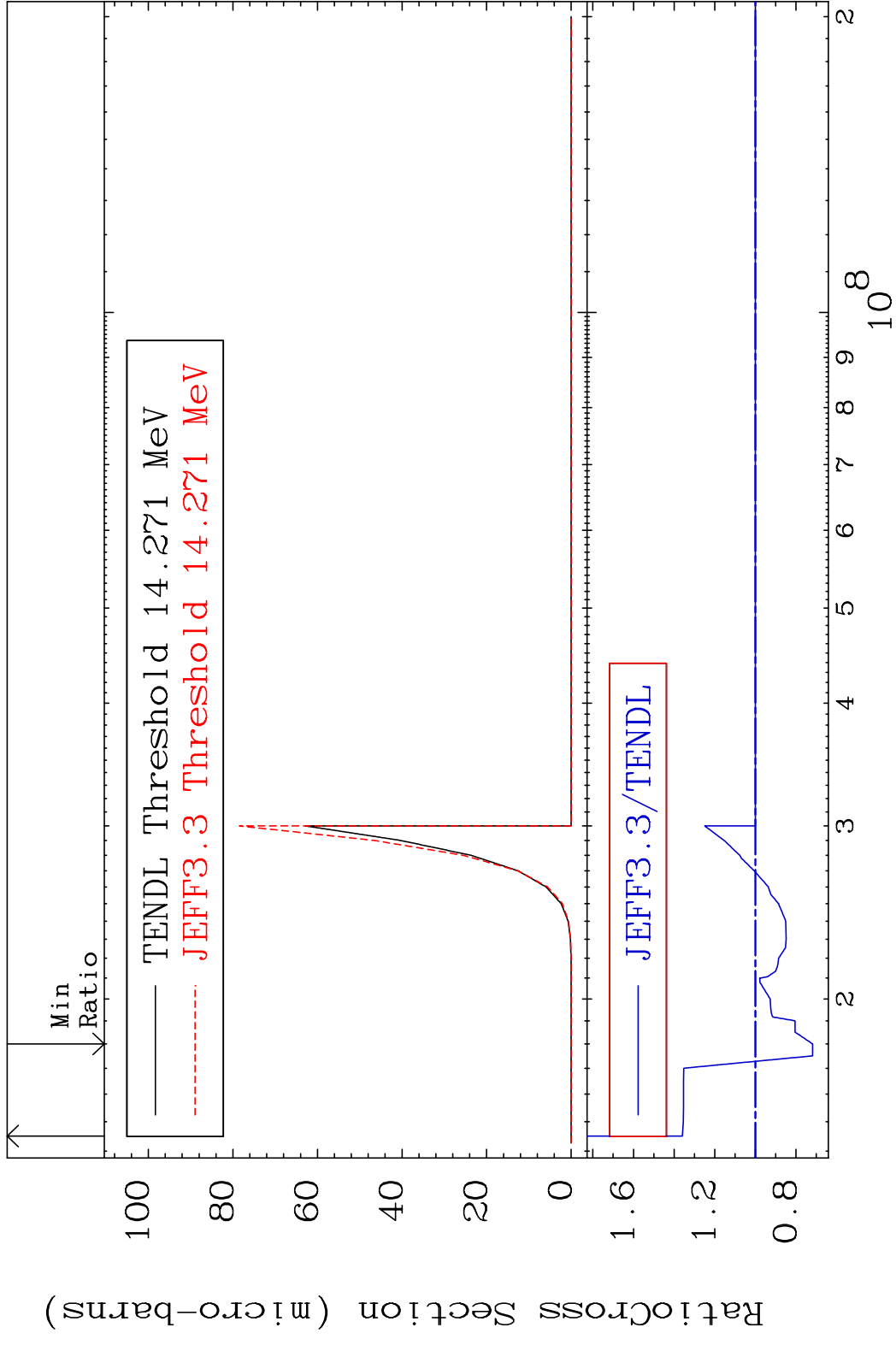


MAT 2322 (n,p) t 23-V -49
 Cross Section 0.000 To 3365. %



59 Incident Energy (MeV) 23-V -49

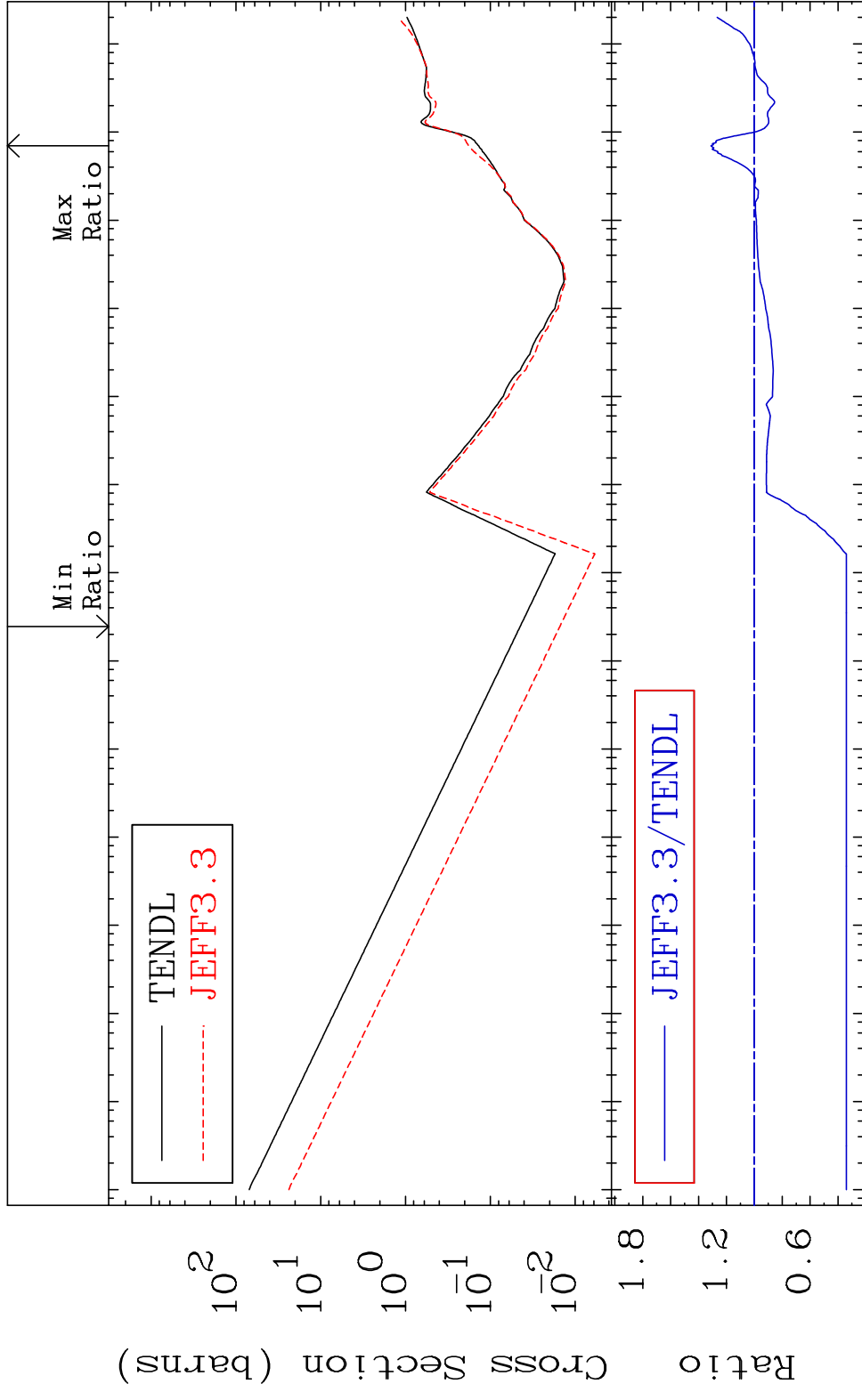
MAT 2322 (n,d) α 23-V -49
 Cross Section -28.13 To 35.95 %



MAT 2322

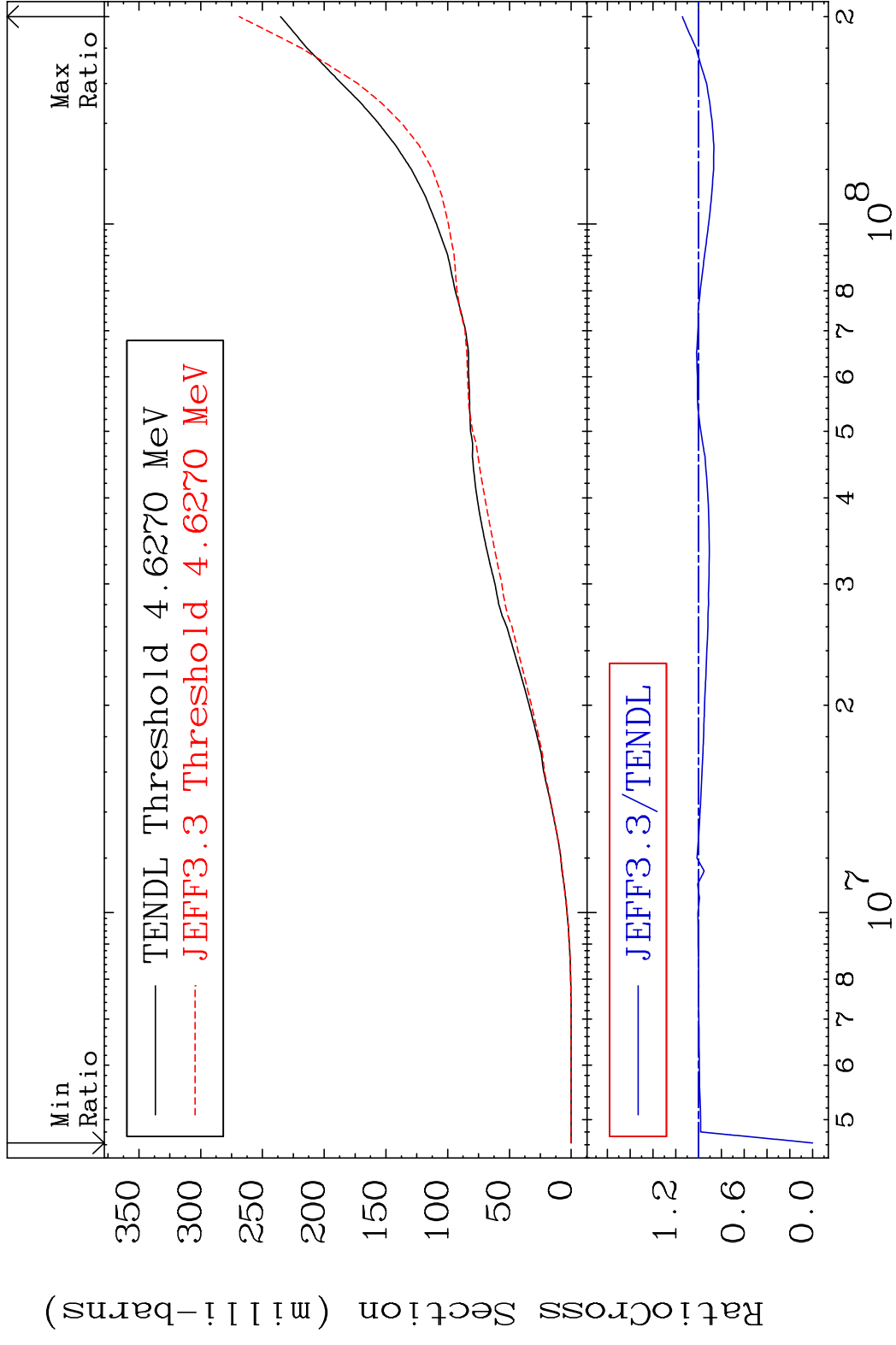
Hydrogen Production Cross Section -65.98 To 31.27 %

23-V -49



61 Incident Energy (eV) 23-V -49

MAT 2322 Deuterium Production 23-V -49
 Cross Section -100.0 To 14.23 %

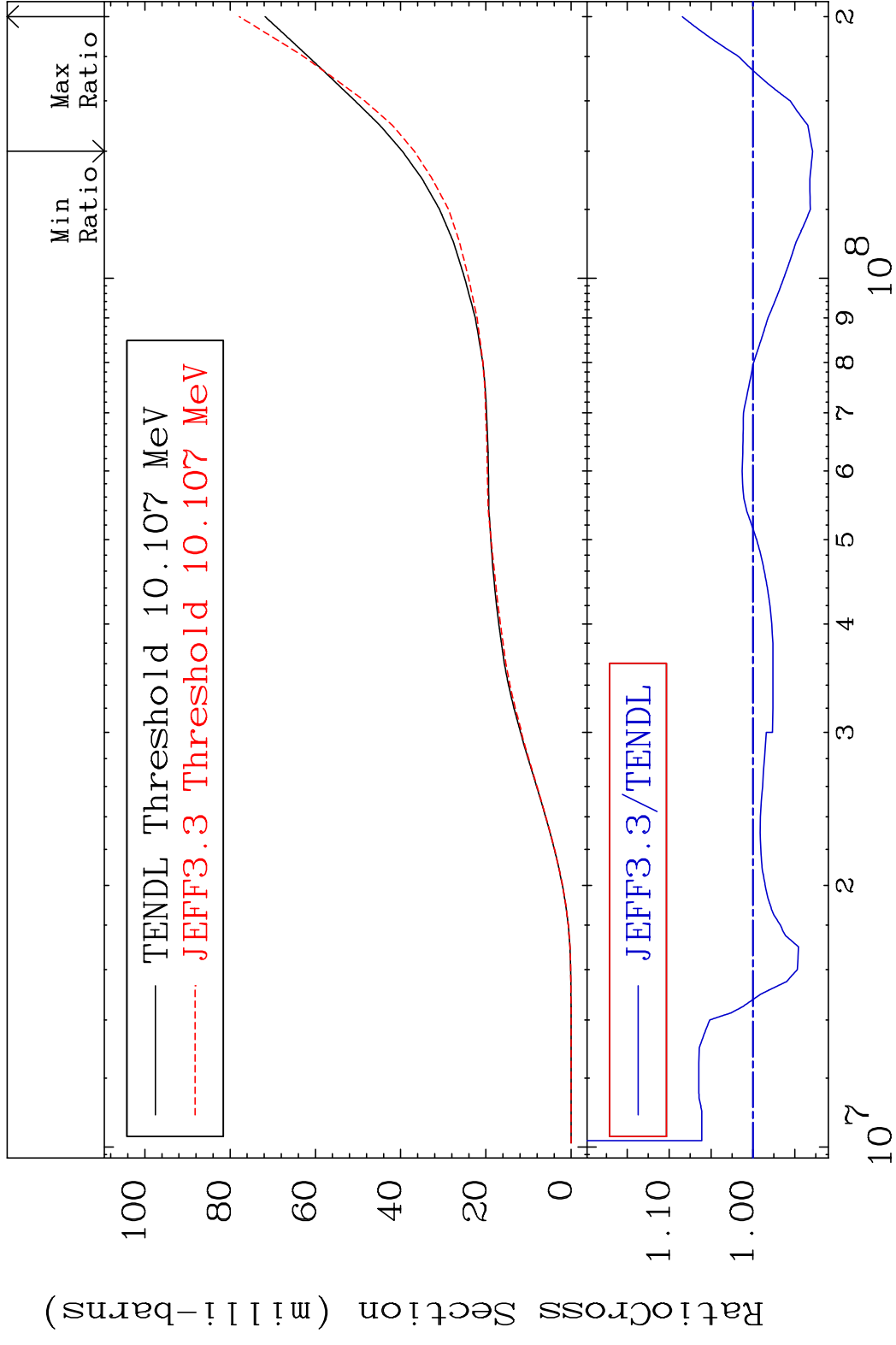


MAT 2322

Tritium Production

23-V -49

Cross Section -7.116 To 8.428 %



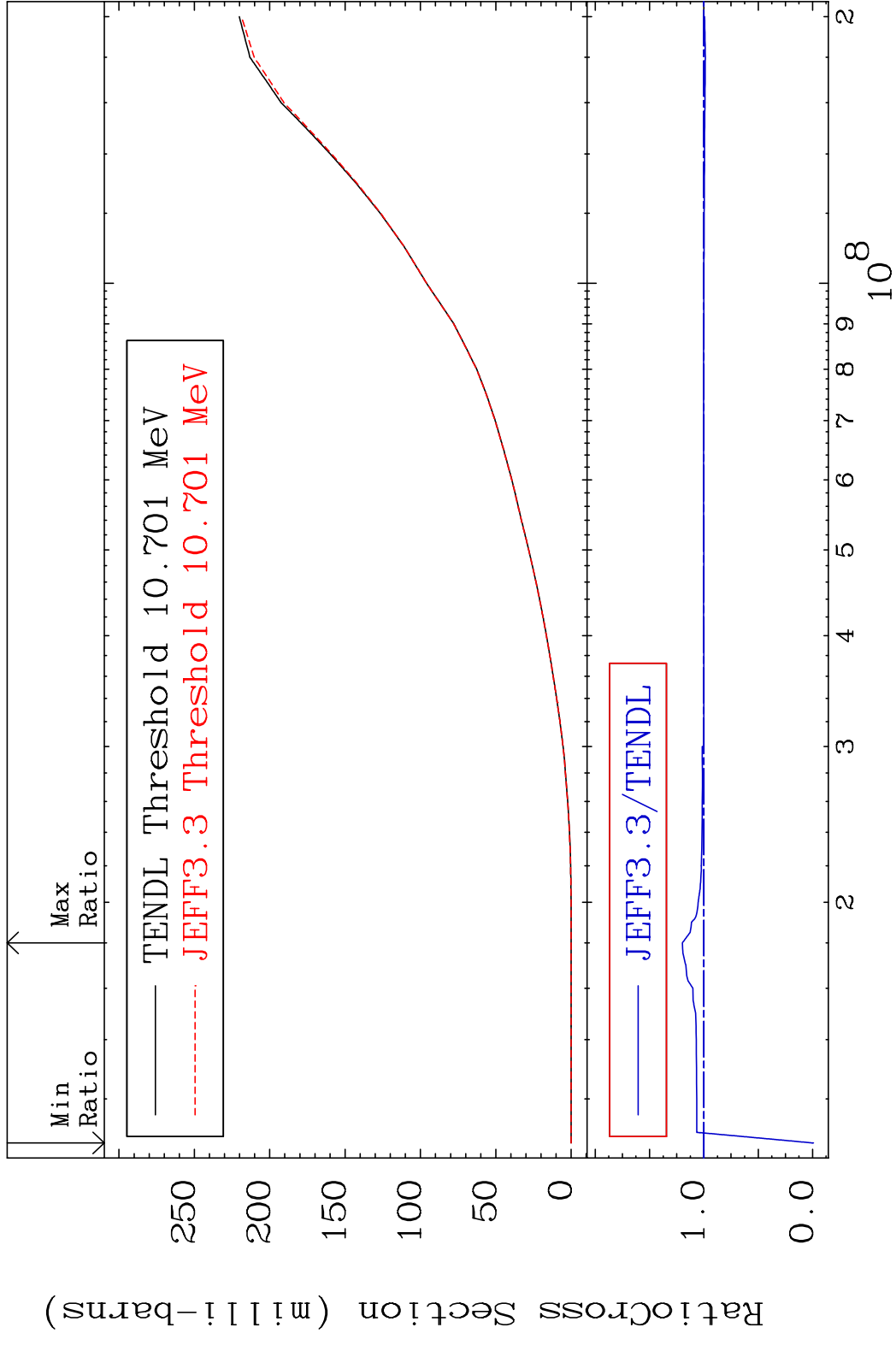
63

MAT 2322

He-3 Production

23-V -49

Cross Section -100.0 To 19.81 %

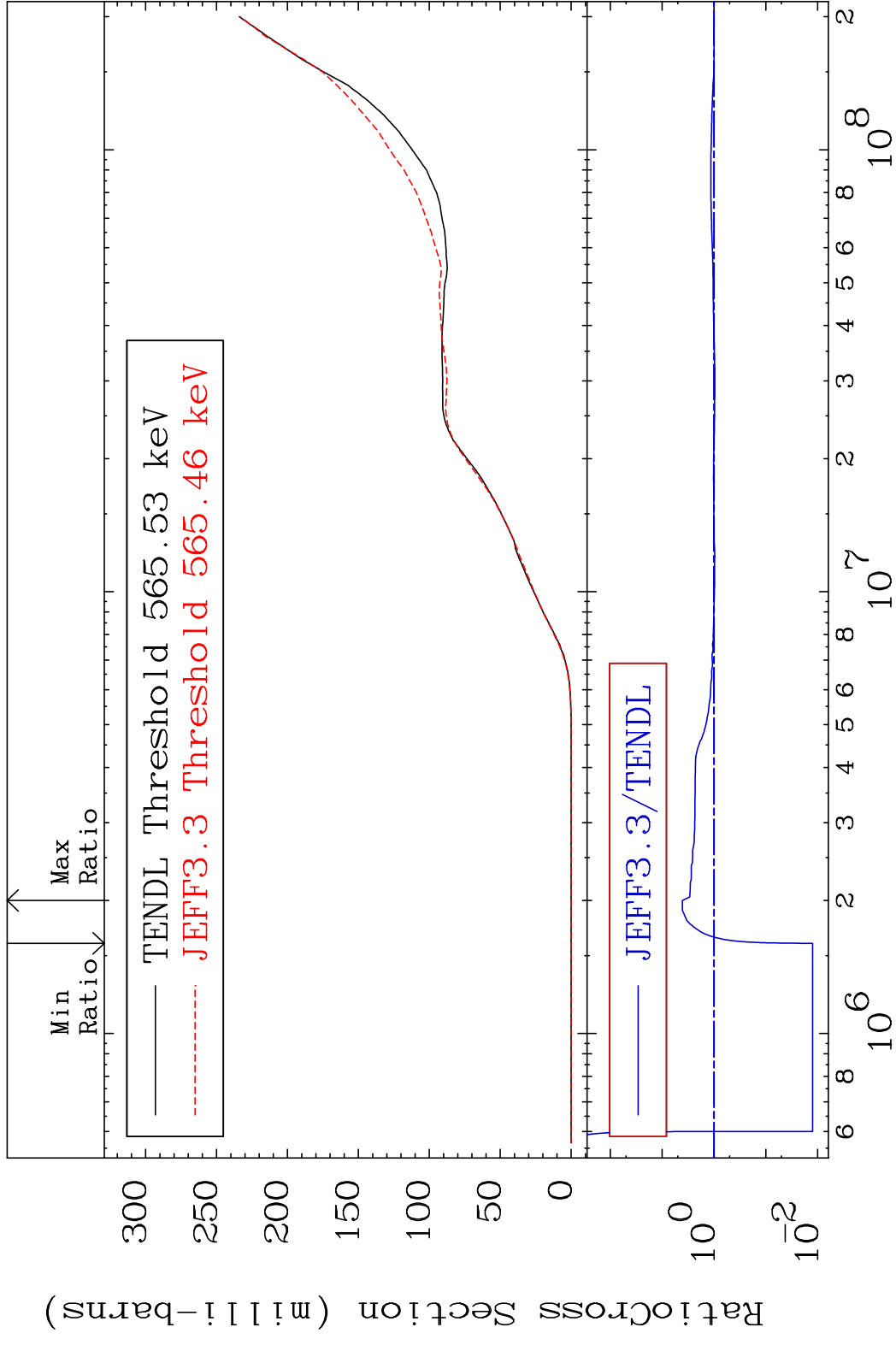


MAT 2322

He-4 Production

23-V -49

Cross Section -98.74 To 308.5 %



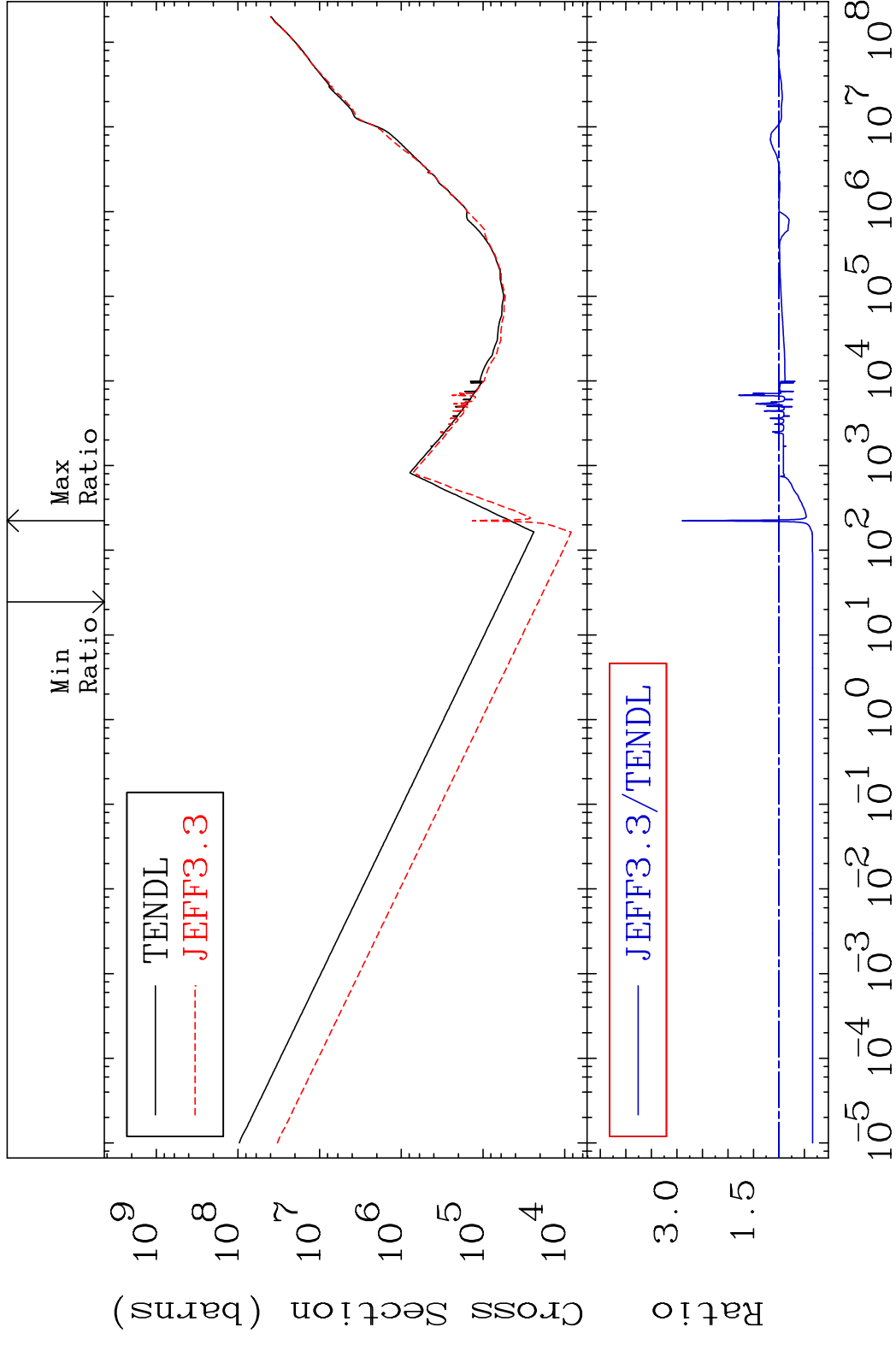
65

Incident Energy (eV)

23-V -49

MAT 2322

Kerma total (eV-barns) 23-V -49
Cross Section -65.88 To 189.3 %



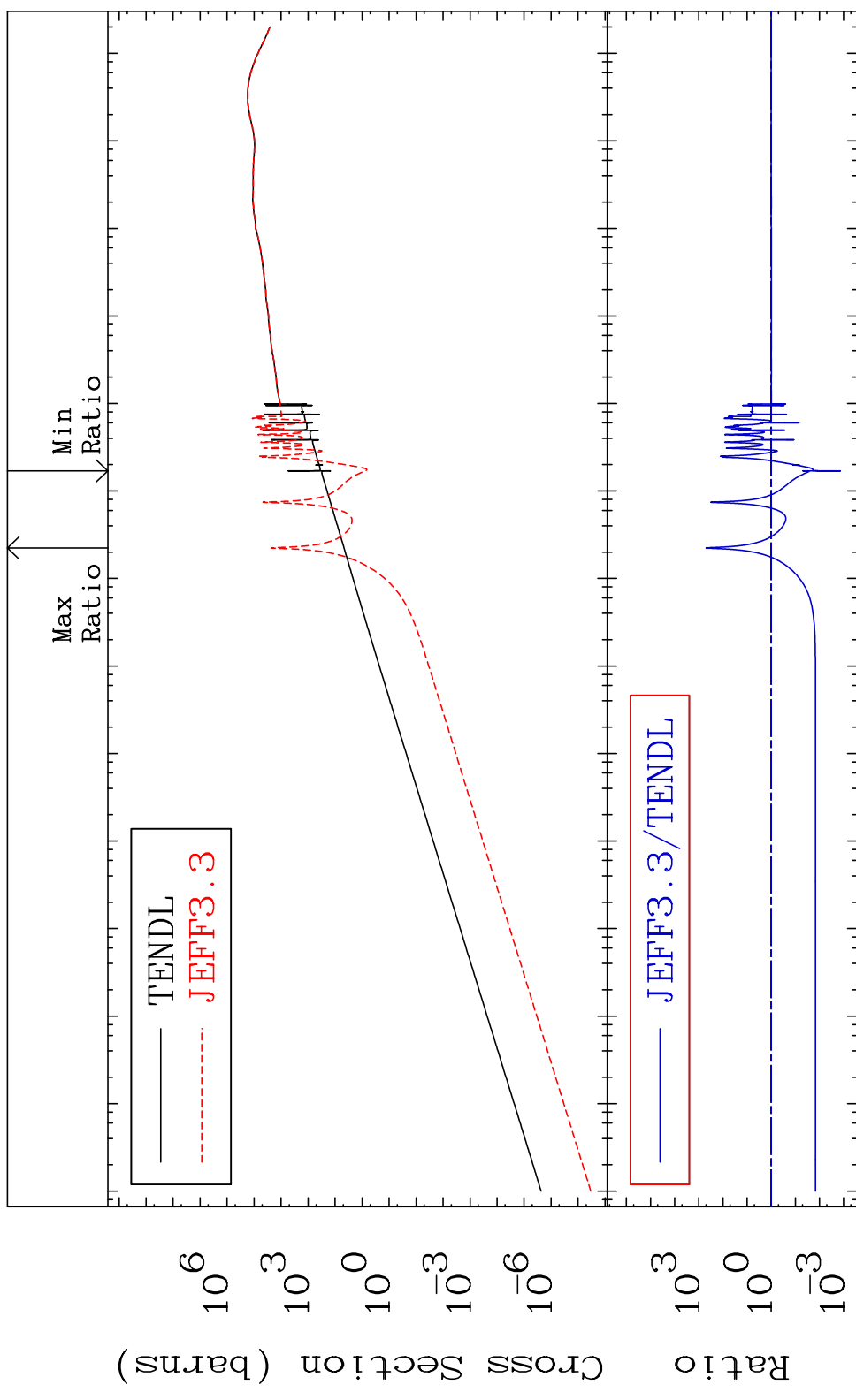
66

Incident Energy (eV) 23-V -49

MAT 2322

Kerma elastic Cross Section -99.86 To 9999. %

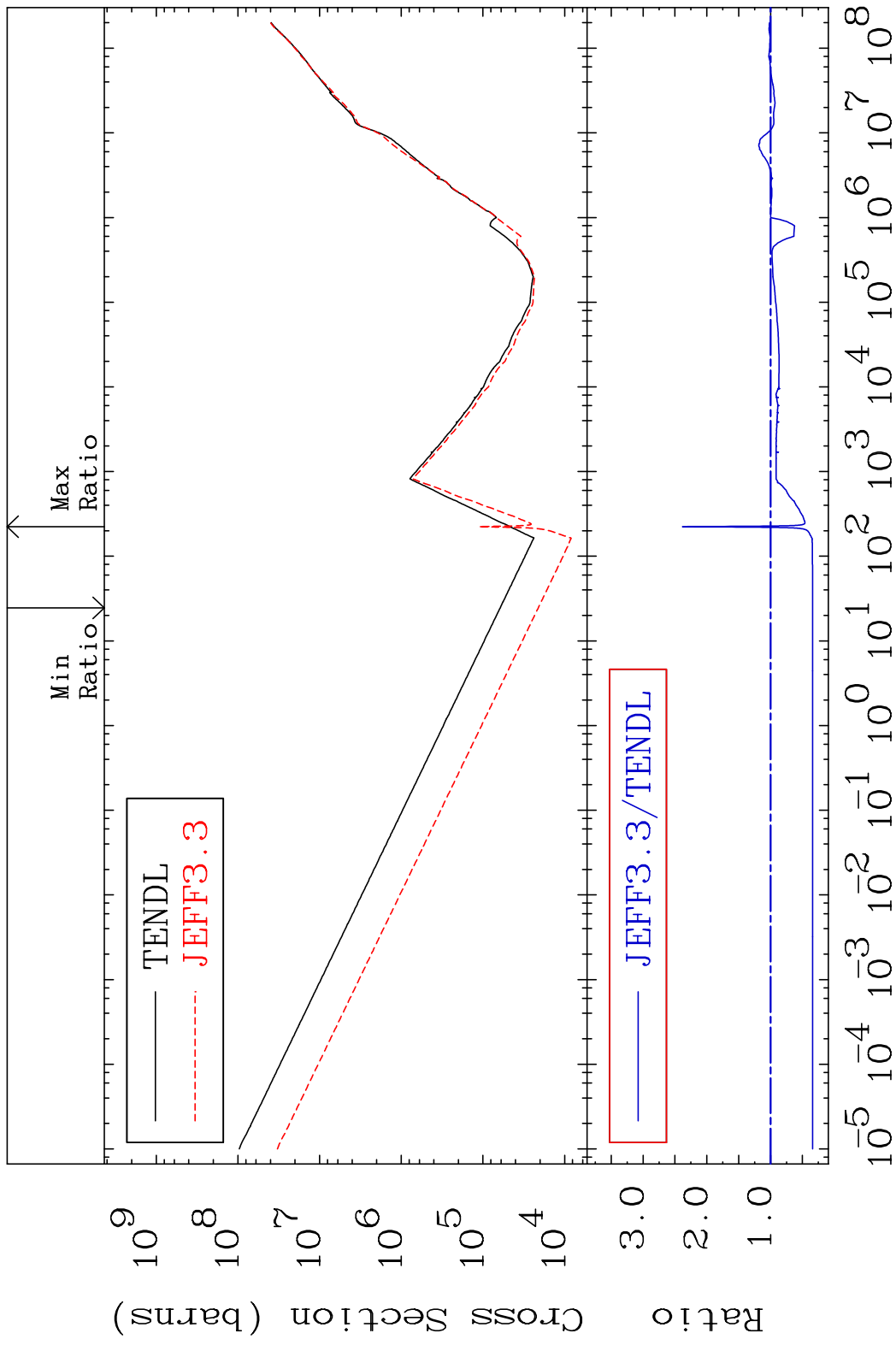
23-V -49



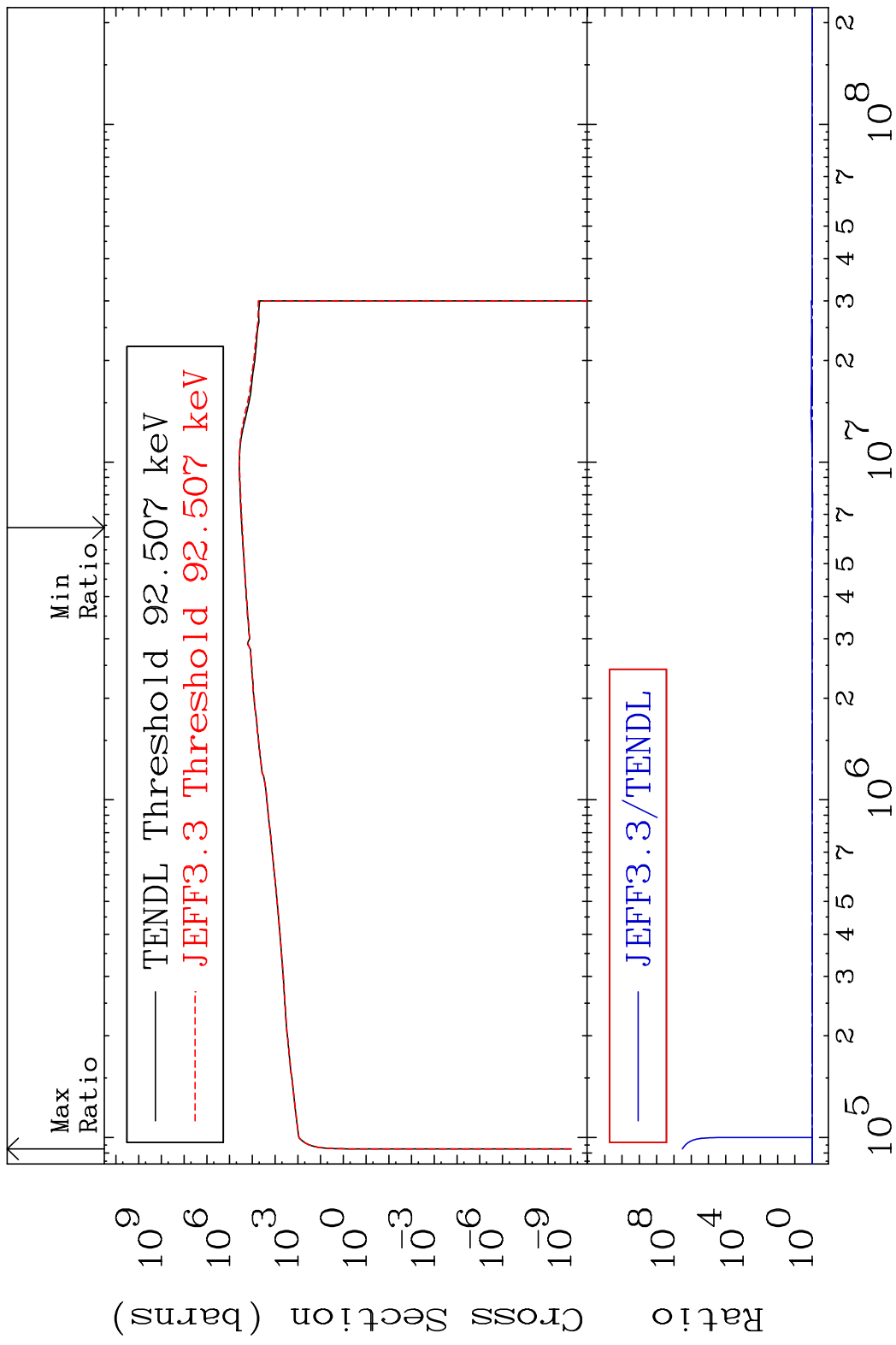
67

Incident Energy (eV) 23-V -49

MAT 2322 Kerma non-elastic (all but mt2) 23-V -49
 Cross Section -65.88 To 138.4 %

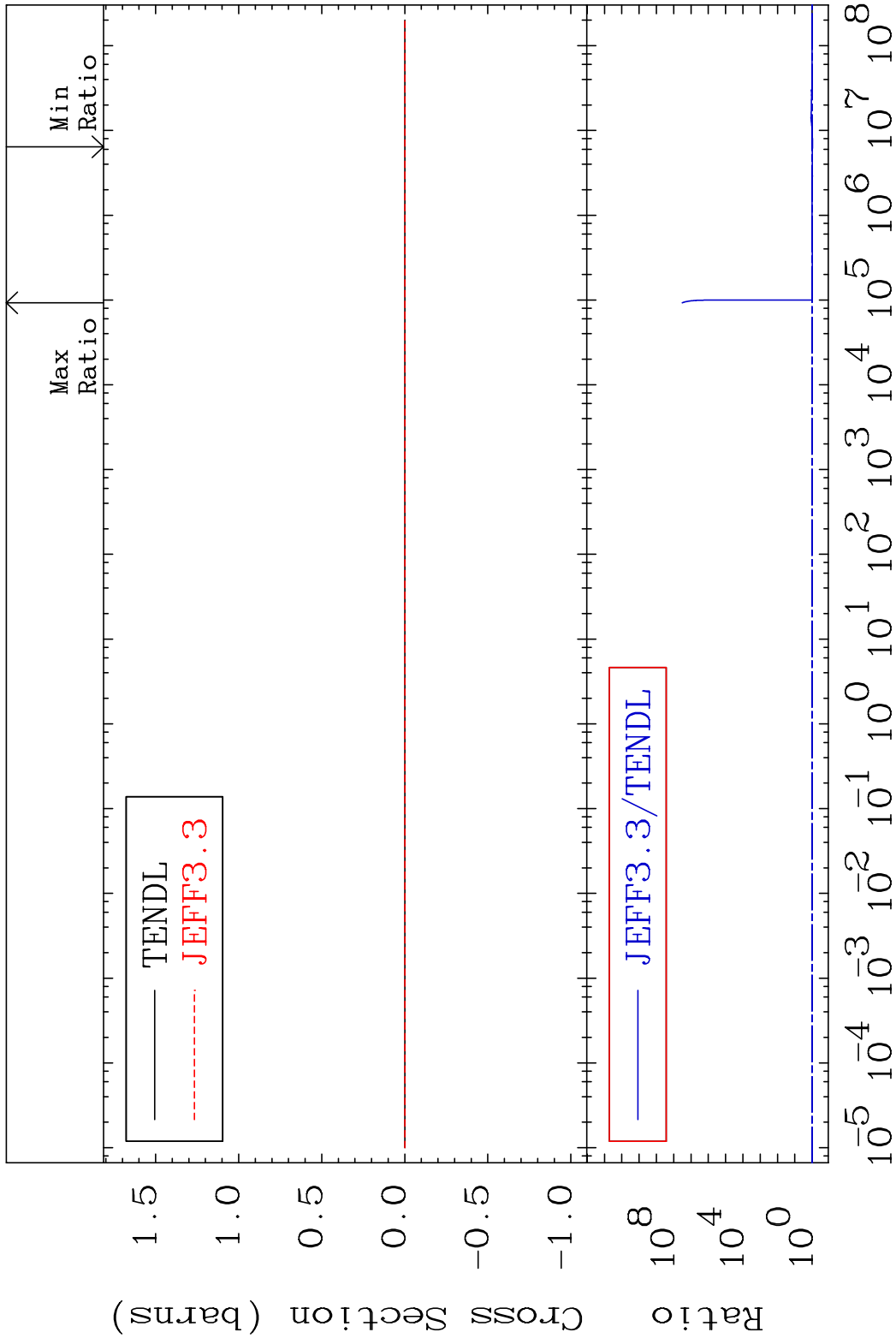


MAT 2322 Kerma inelastic (mt51-91) 23-V -49
 Cross Section -4.448 To 9999. %



69 Incident Energy (eV) 23-V -49

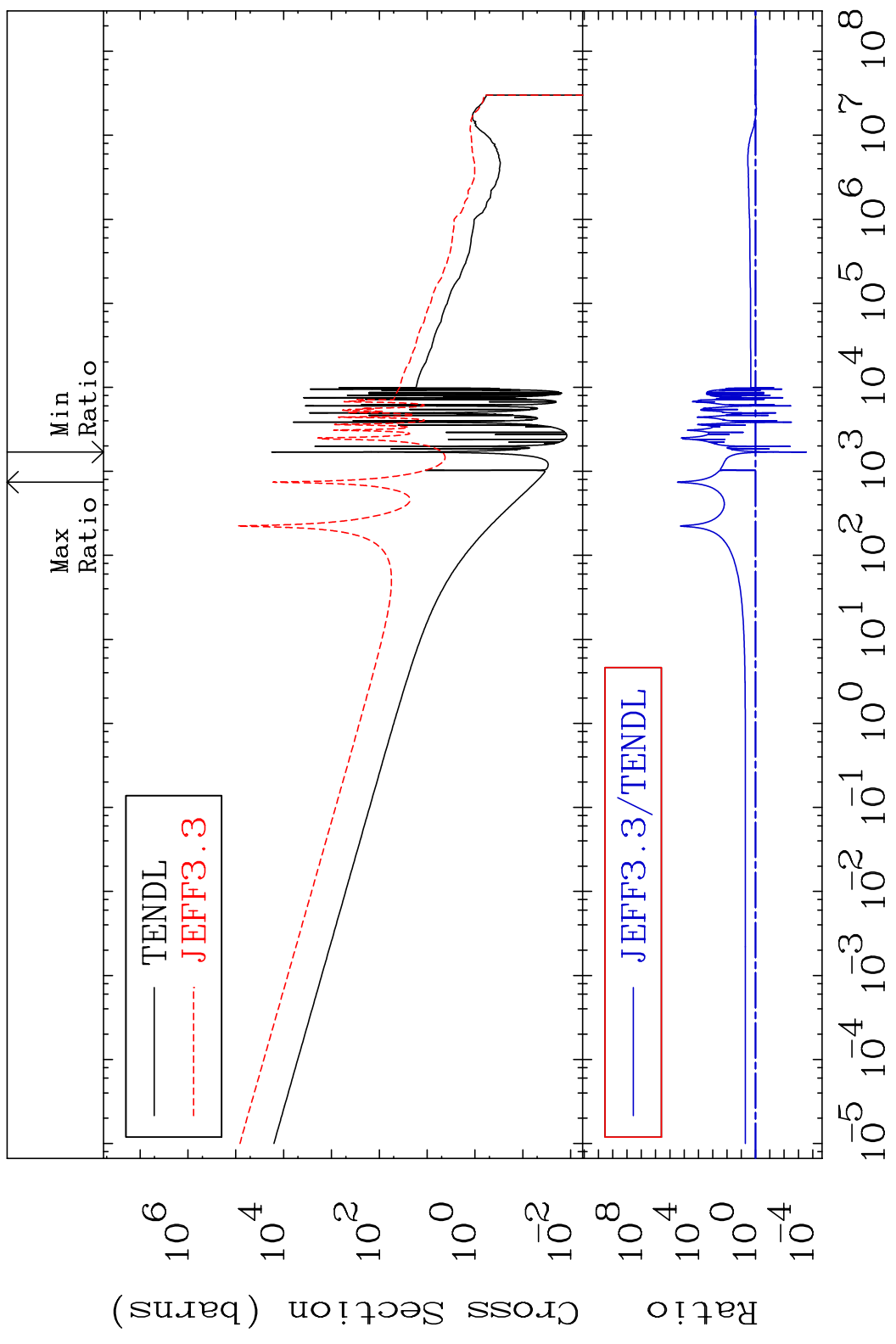
MAT 2322 Kerma fission (mt18 or mt19-20-21-38) 23-V -49
 Cross Section -4.448 To 9999. %



70 Incident Energy (eV) 23-V -49

MAT 2322

Kerma capture (mt102) 23-V -49
Cross Section -99.97 To 9999. %

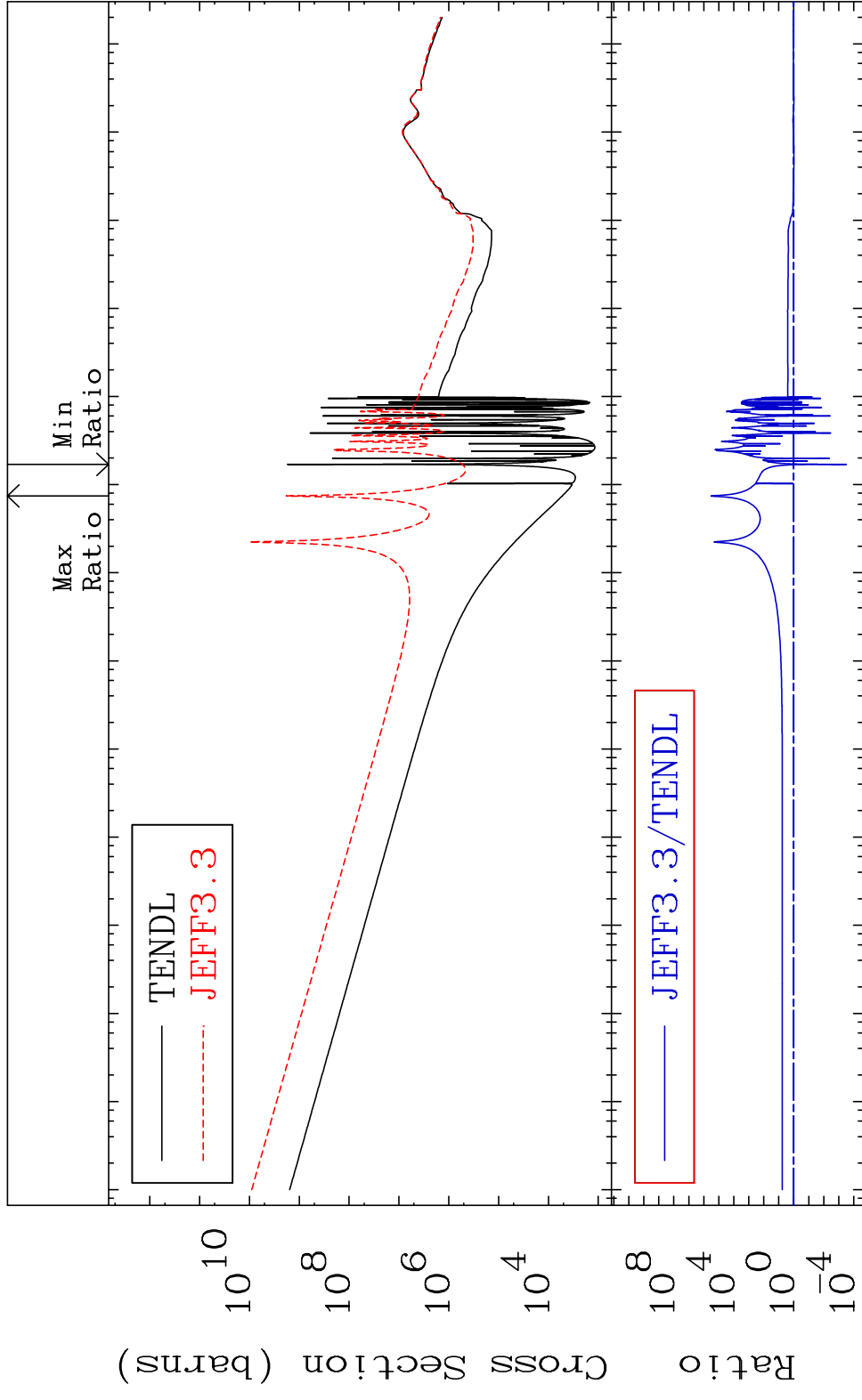


71

Incident Energy (eV) 23-V -49

MAT 2322

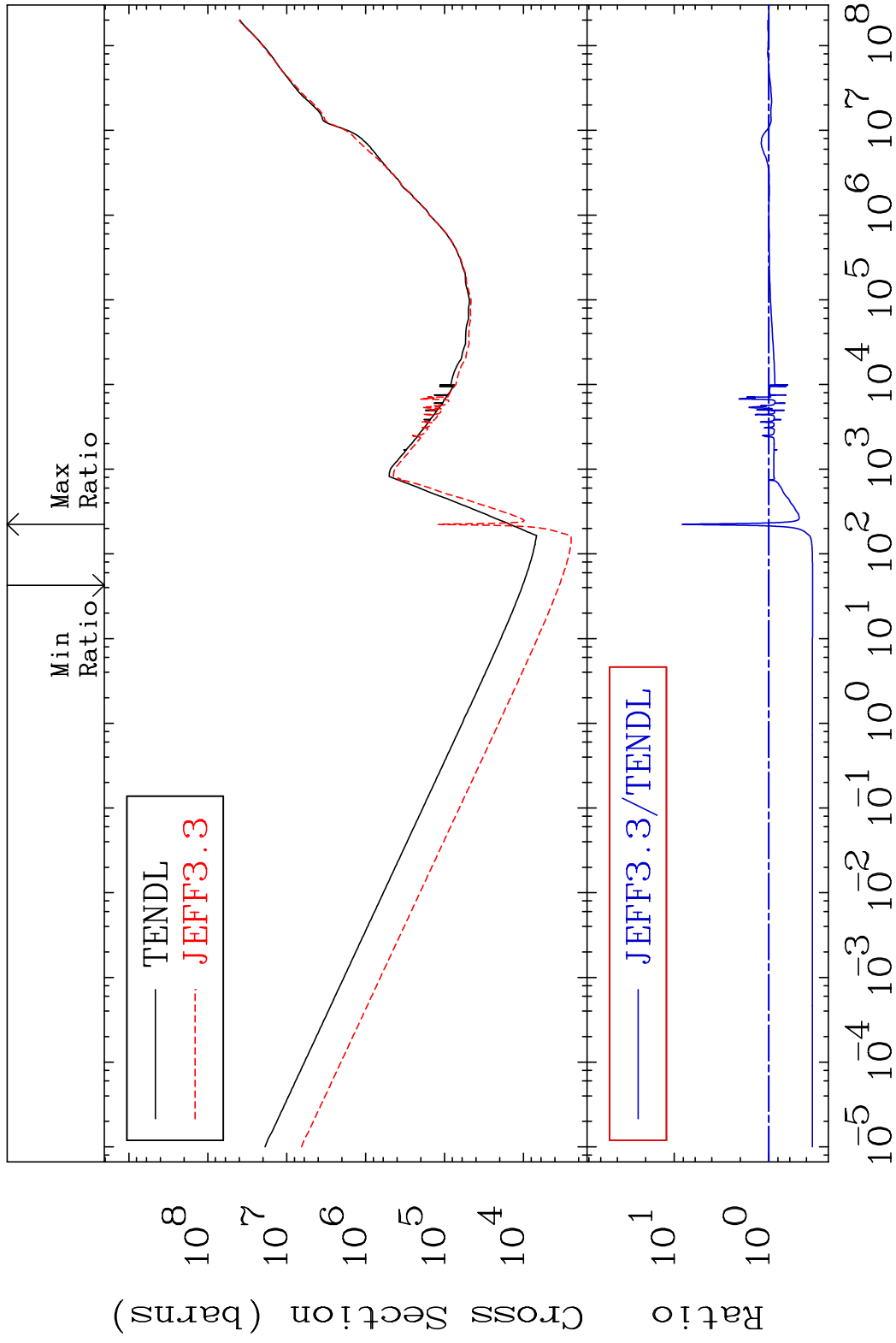
Total photon (eV-barns) 23-V -49
Cross Section -99.97 To 9999. %



72

Incident Energy (eV) 23-V -49

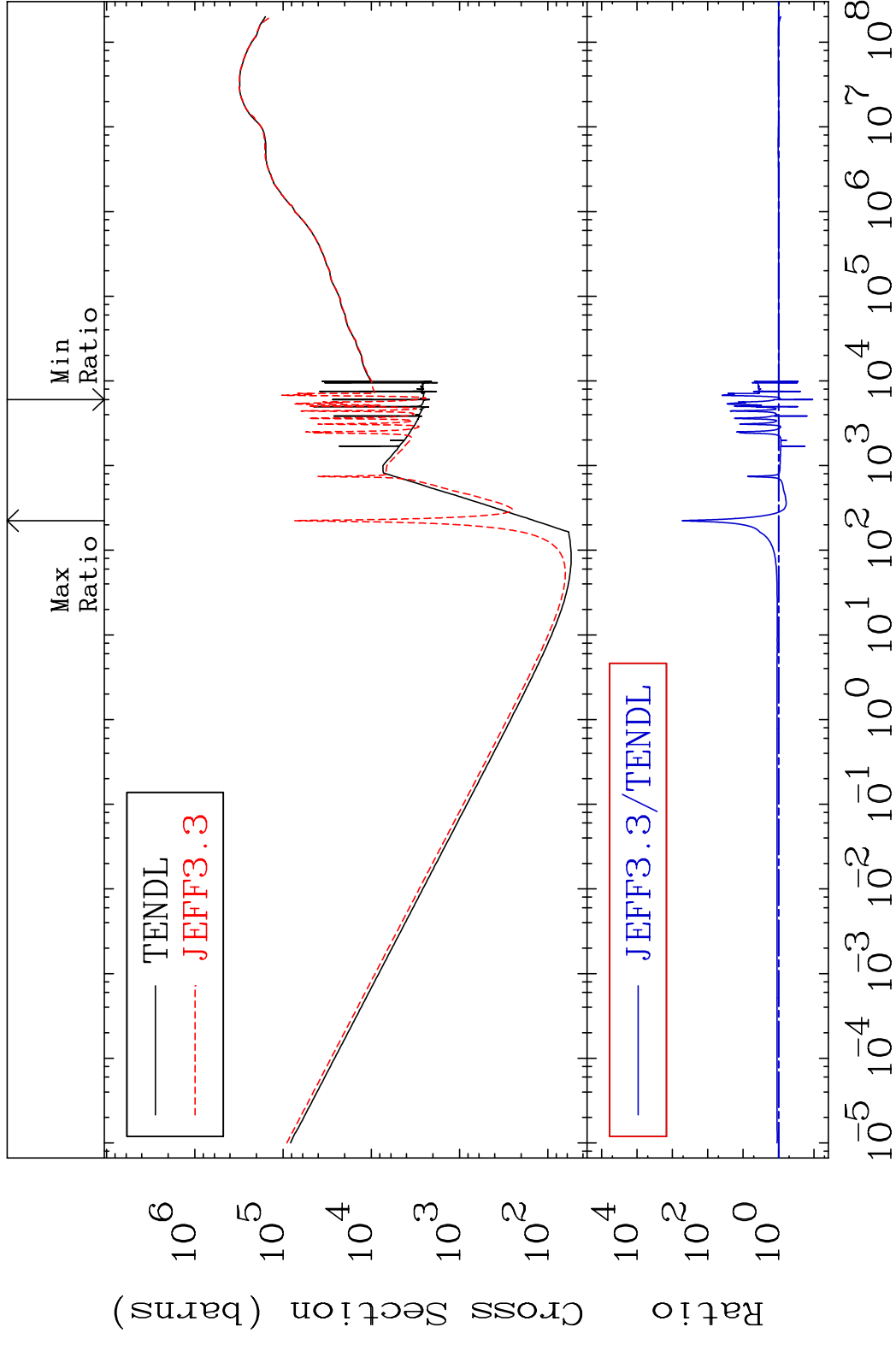
MAT 2322 Total kinematic kerma (high limit) 23-V -49
 Cross Section -65.61 To 720.1 %



73 Incident Energy (eV) 23-V -49

MAT 2322

Dpa total (eV-barns) 23-V -49
Cross Section -89.07 To 9999. %



74

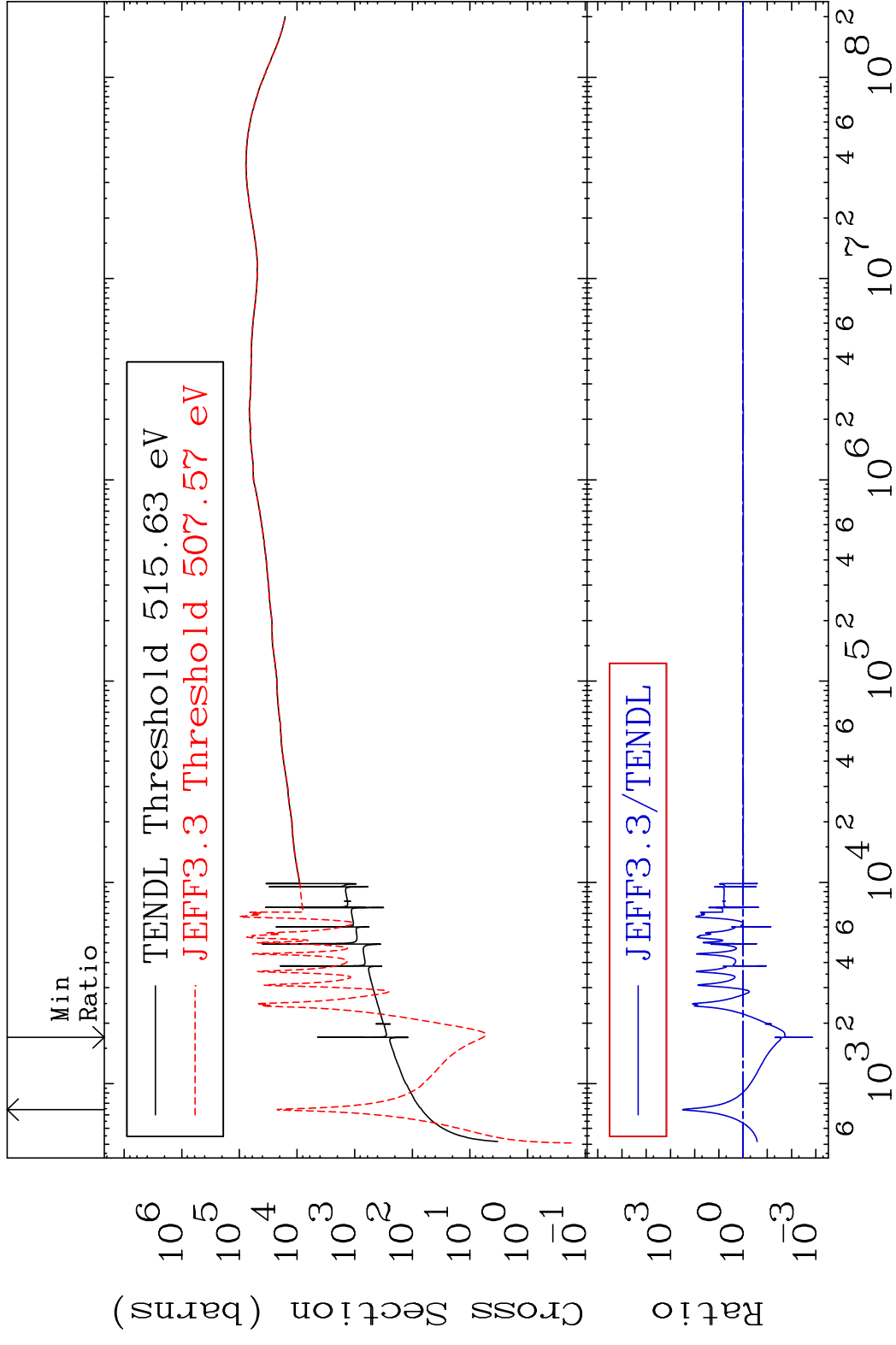
Incident Energy (eV) 23-V -49

MAT 2322

Dpa elastic (mt2)

23-V -49

Cross Section -99.86 To 9999. %

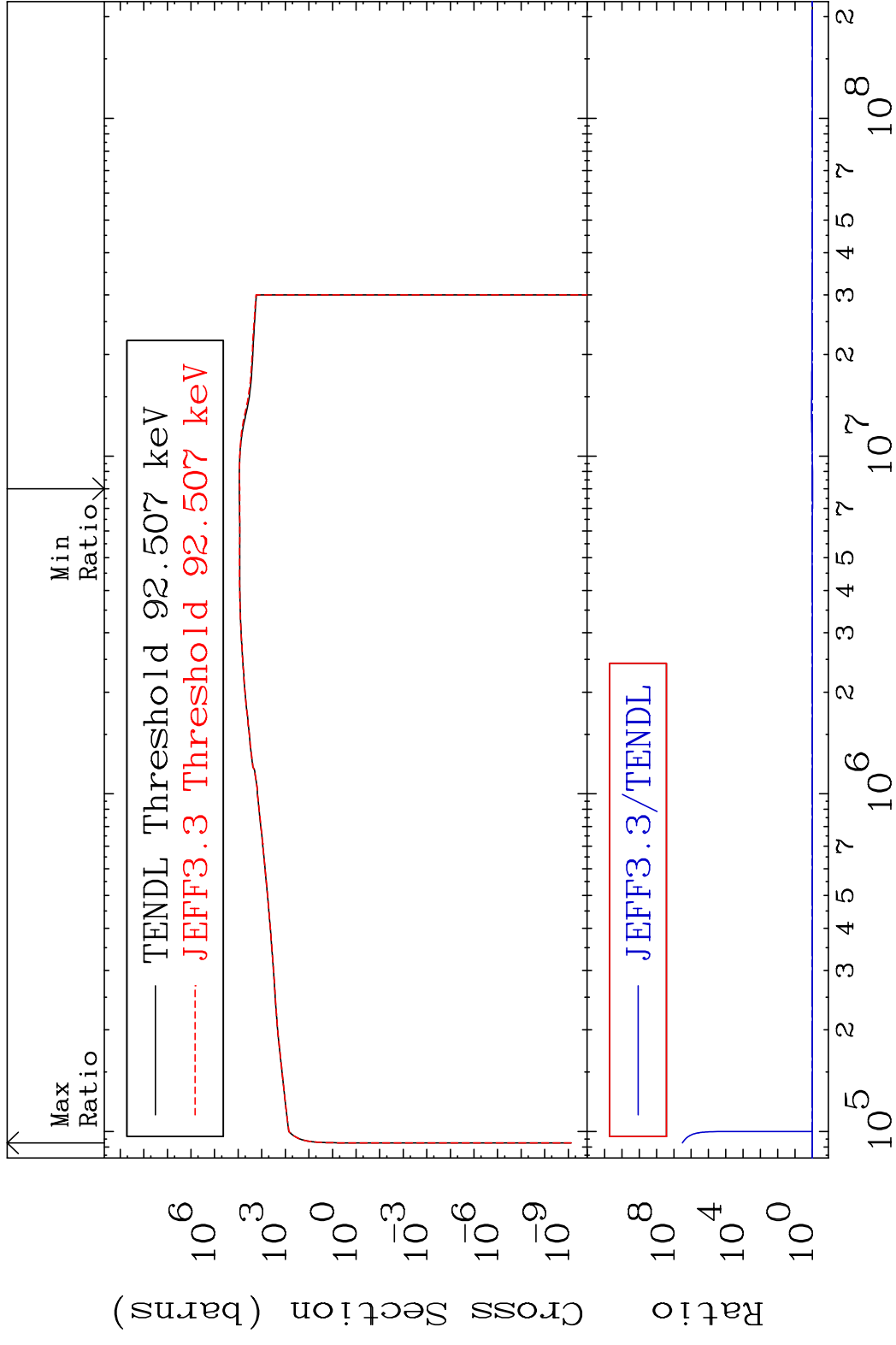


75

Incident Energy (eV)

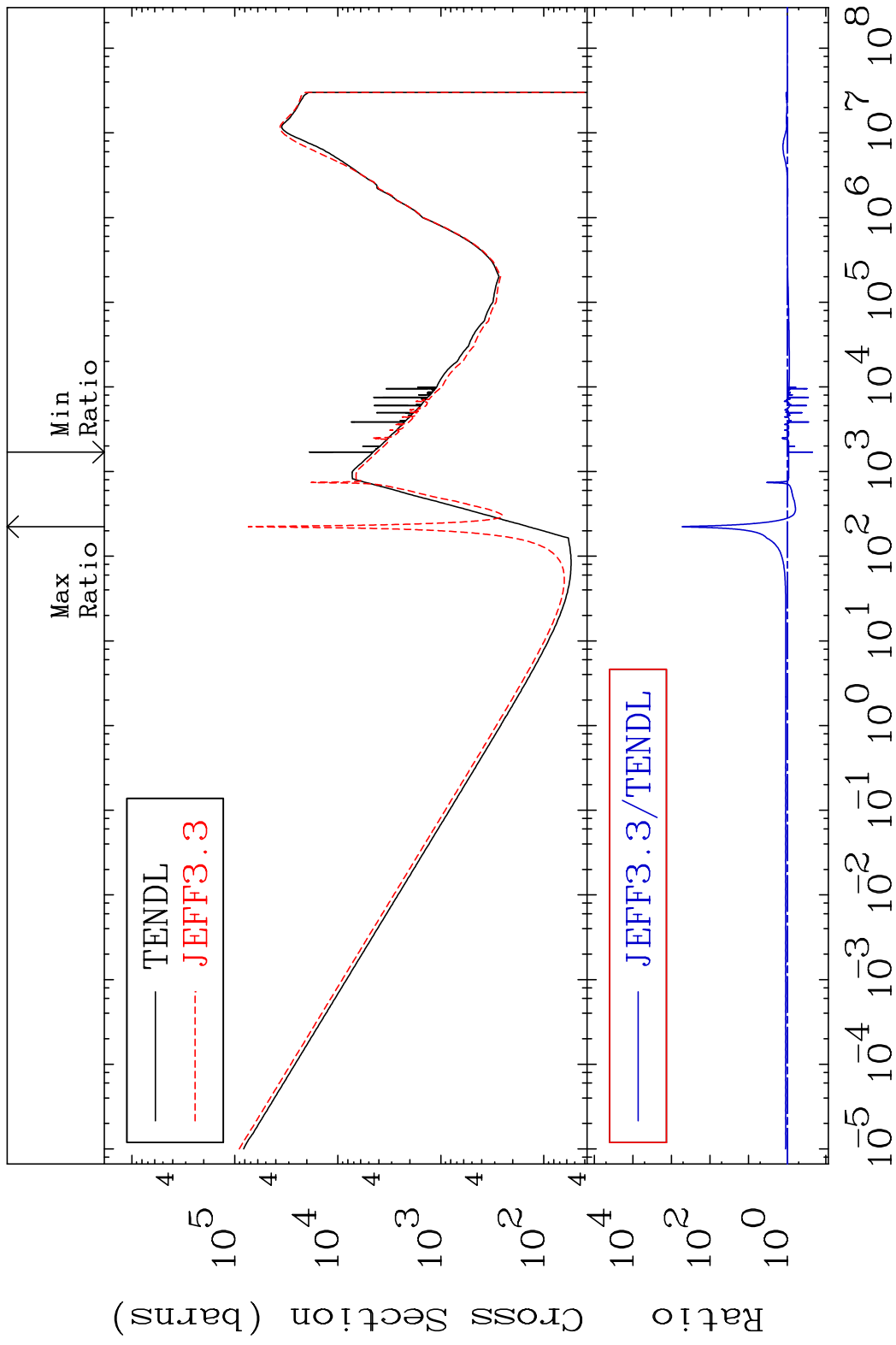
23-V -49

MAT 2322 Dpa inelastic (mt51-91) 23-V -49
 Cross Section -3.073 To 9999. %

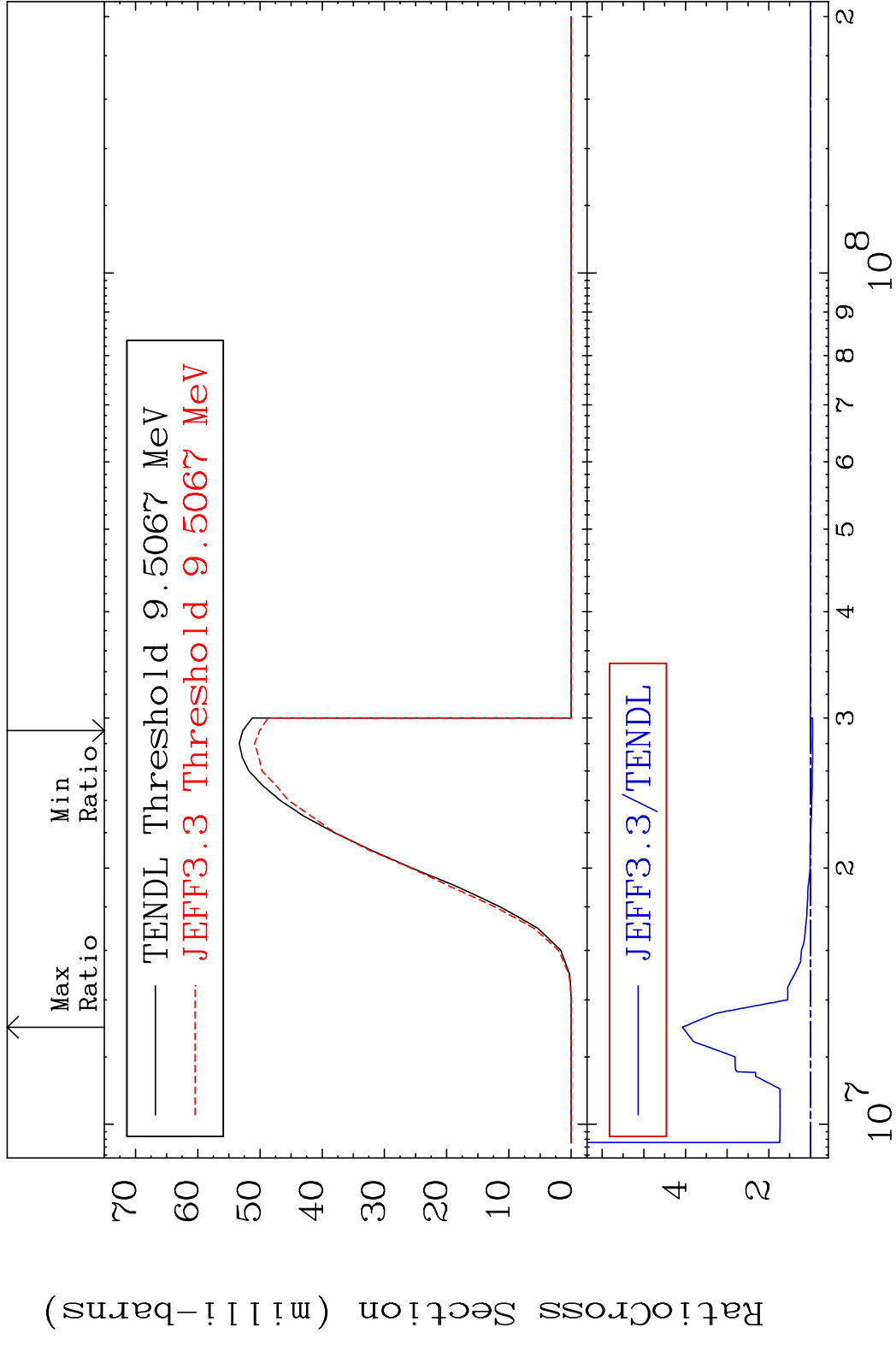


76 Incident Energy (eV) 23-V -49

MAT 2322 Dpa disappearance (mt102 -120) 23-V -49
 Cross Section -78.01 To 9999. %

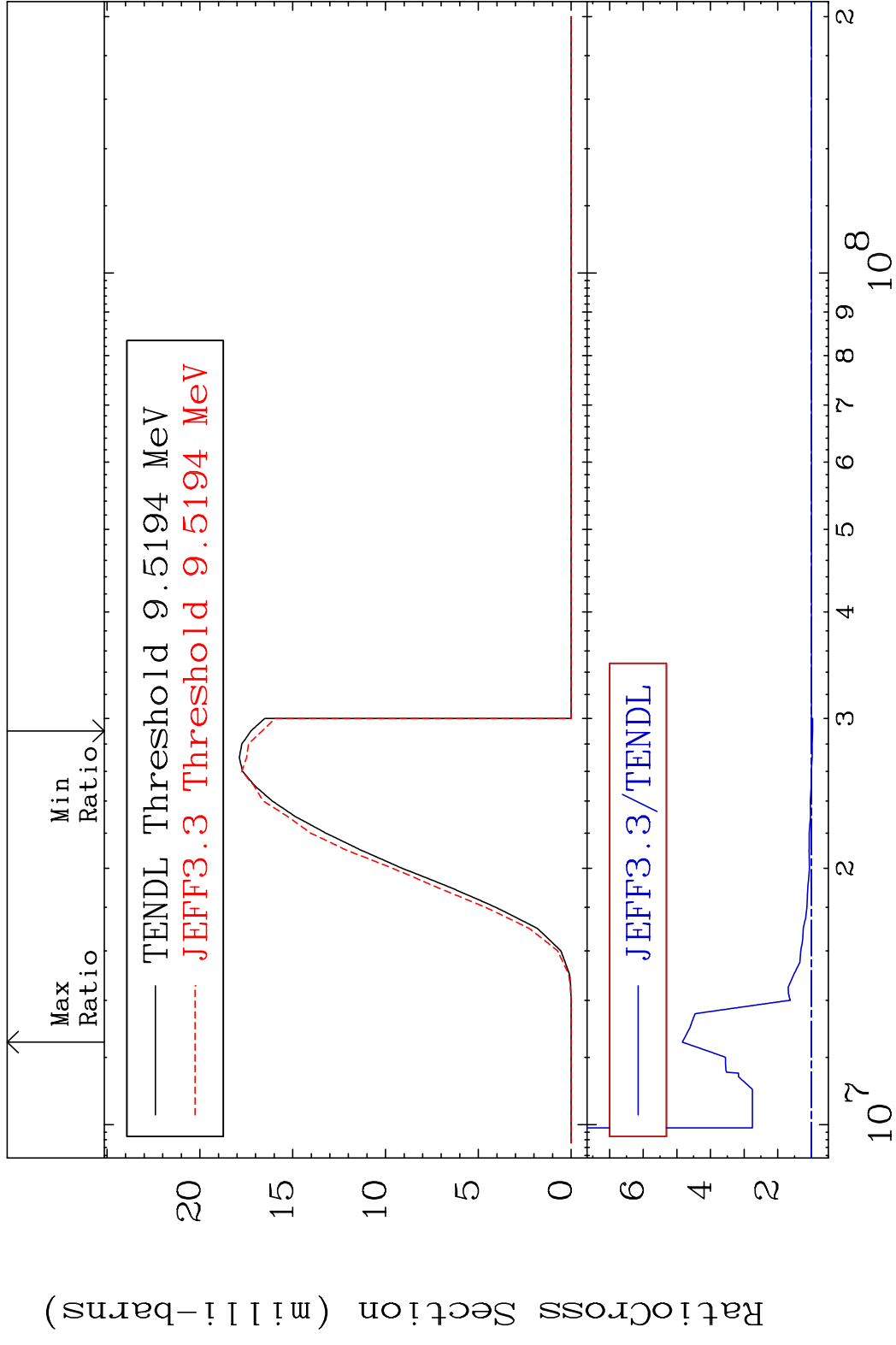


MAT 2322 (n, n') α :21-Sc-45g 23-V -49
 Radionuclide Production Cross-Section 307.6 %



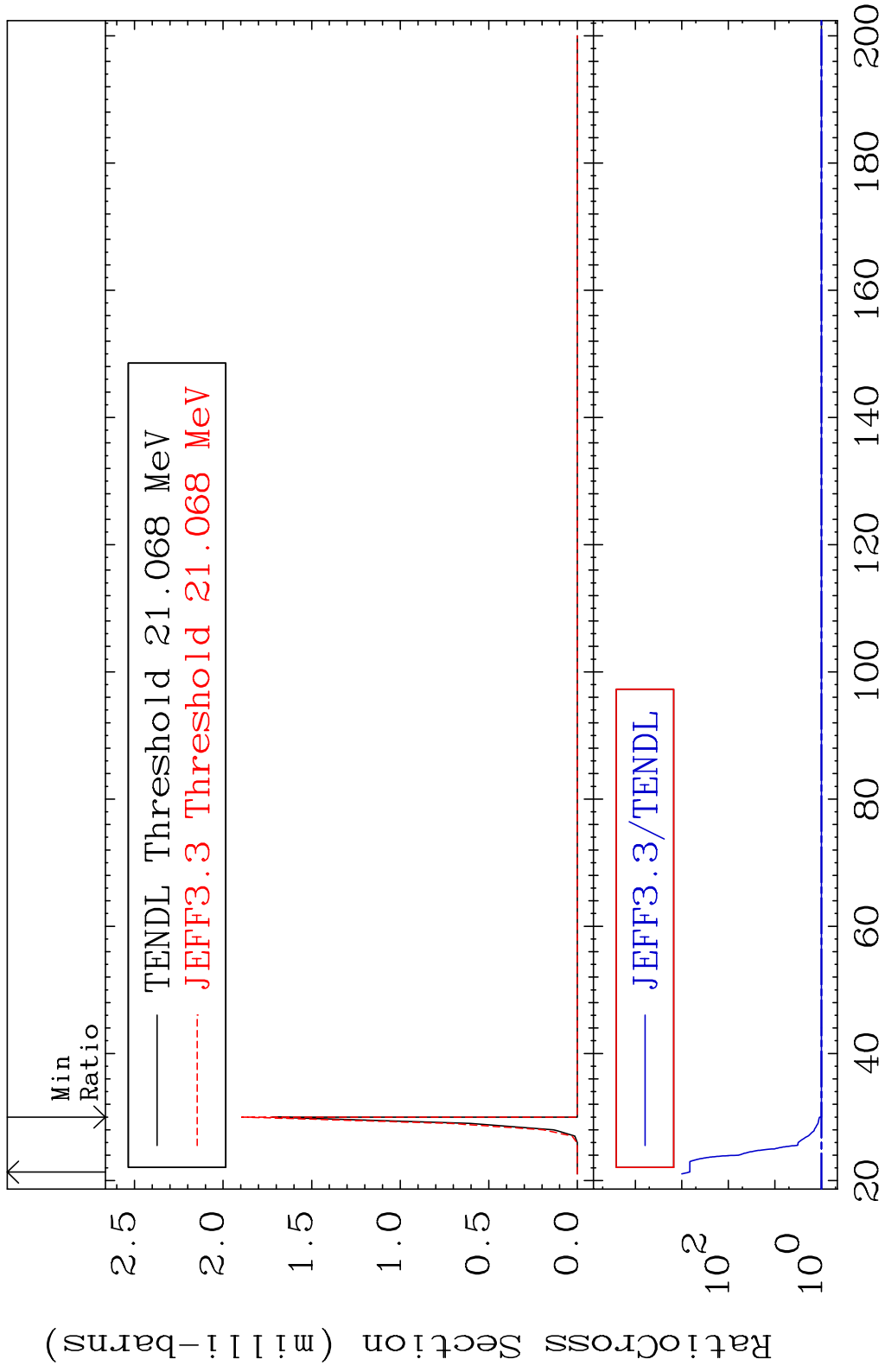
78 Incident Energy (eV) 23-V -49

MAT 2322 (n, n') α :21-Sc-45m1 23-V -49
 Radionuclide Production Cross Section 383.7 %

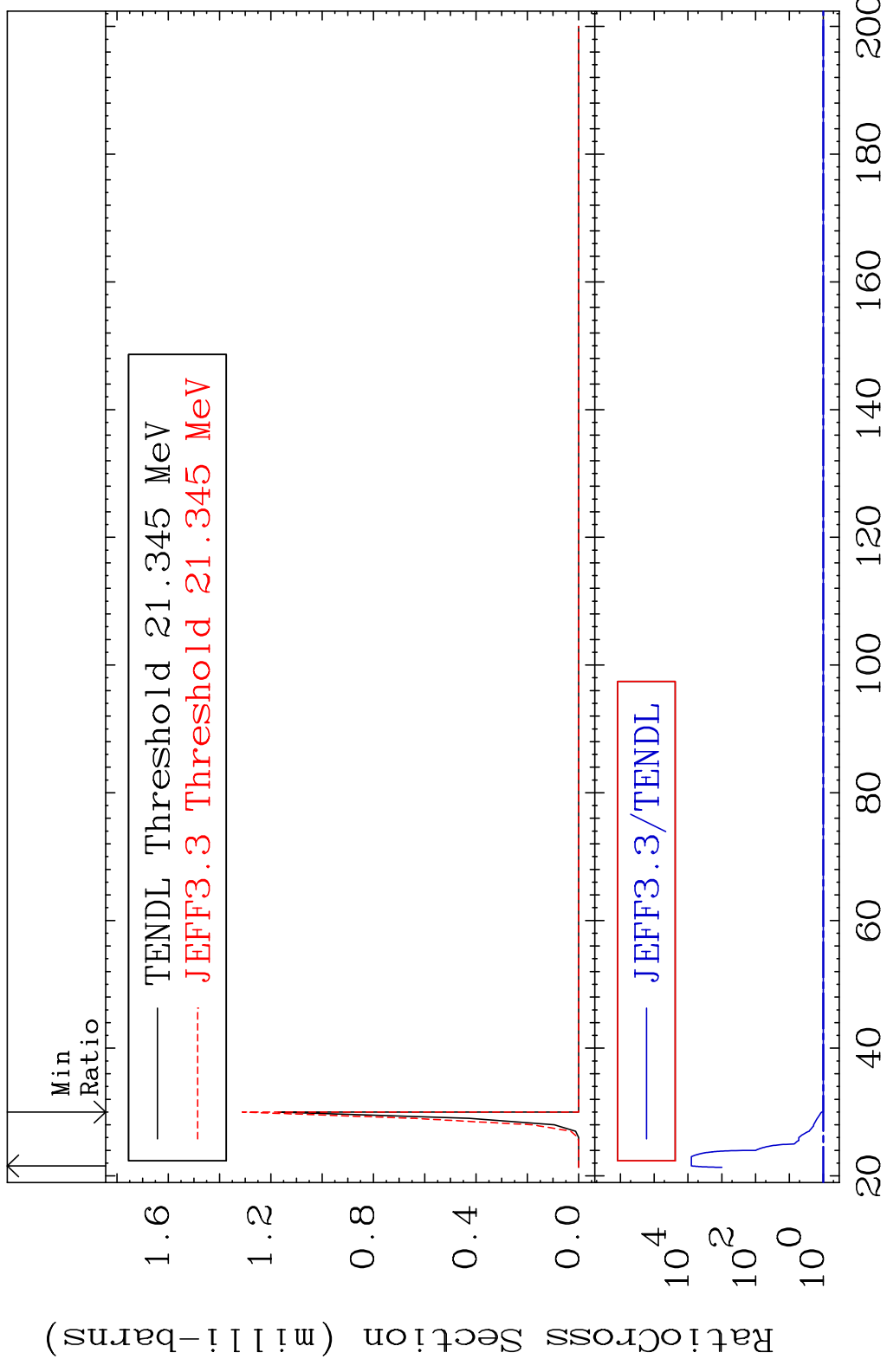


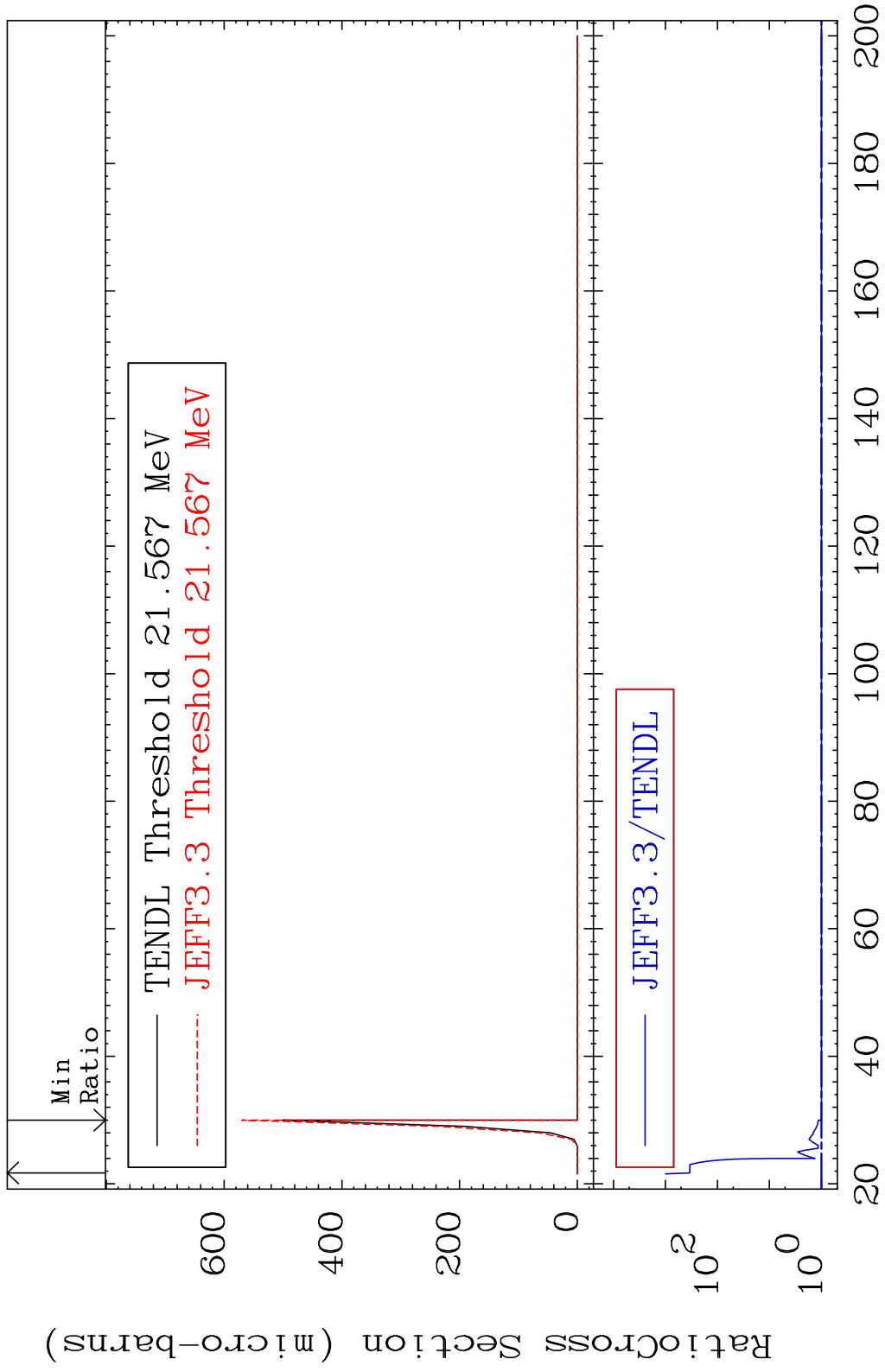
79 Incident Energy (eV) 23-V -49

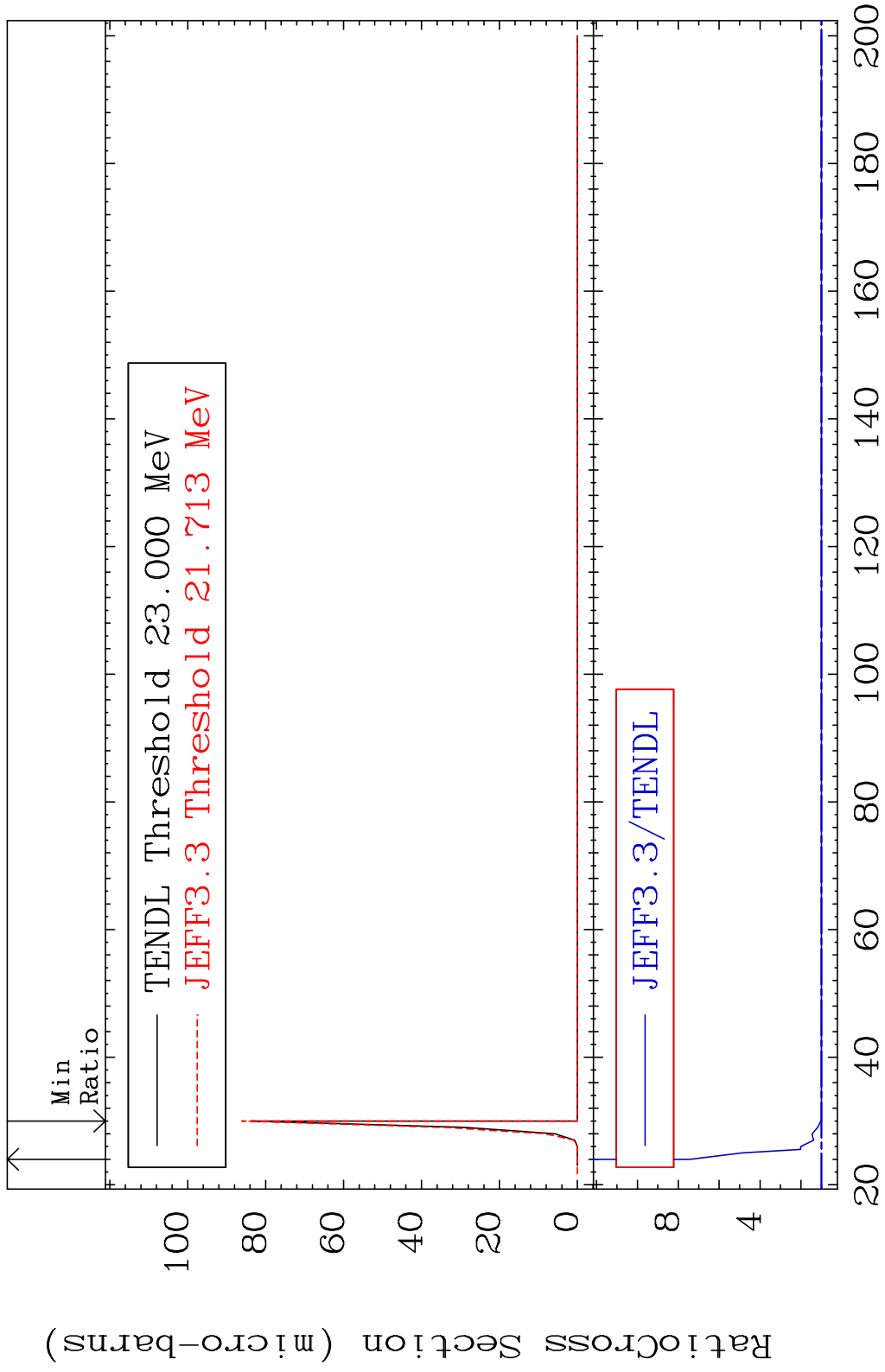
MAT 2322 (n,2n) α :21-Sc-44g 23-V -49
 Radionuclide Production Cross Section 9999. %

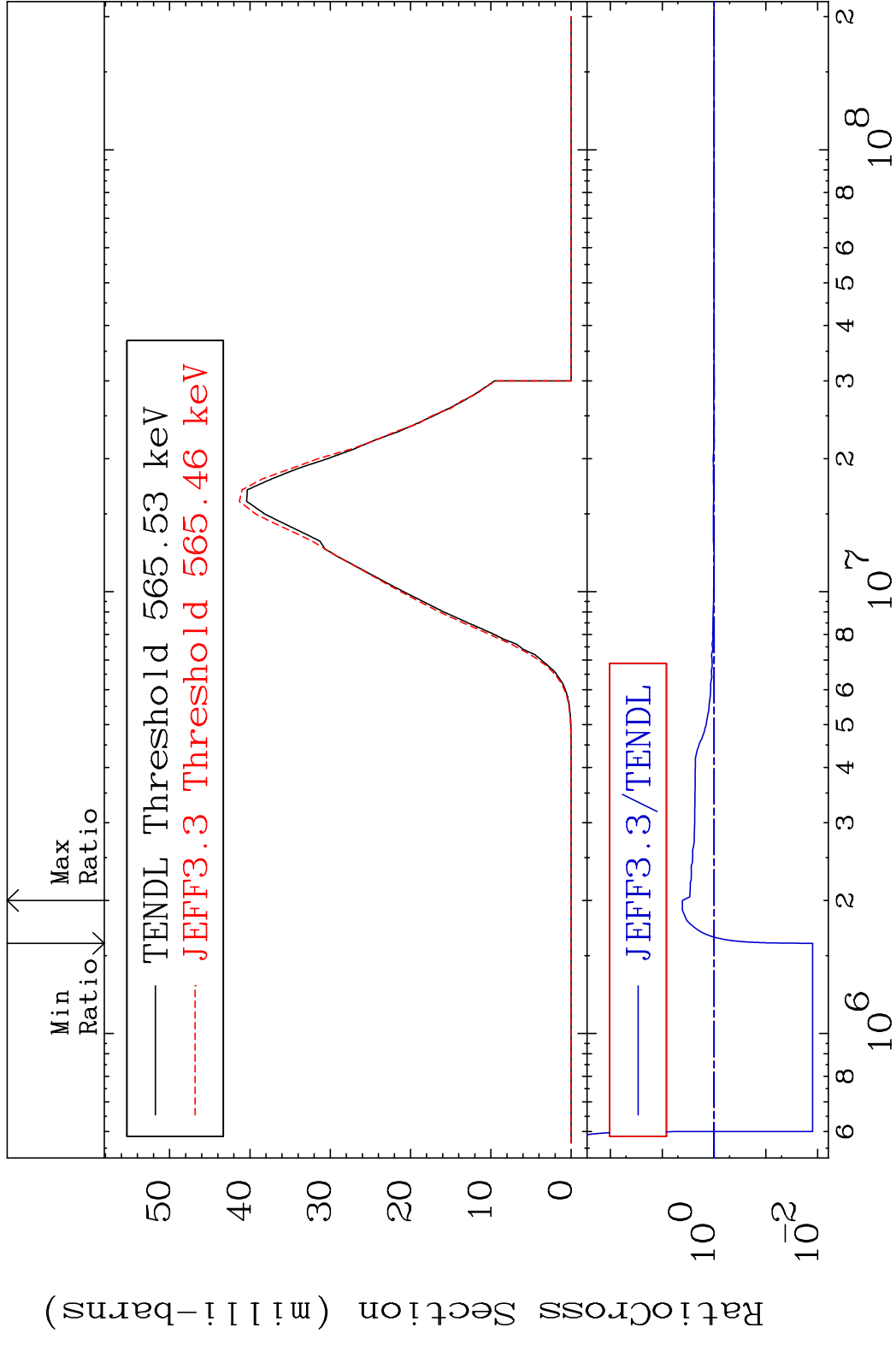


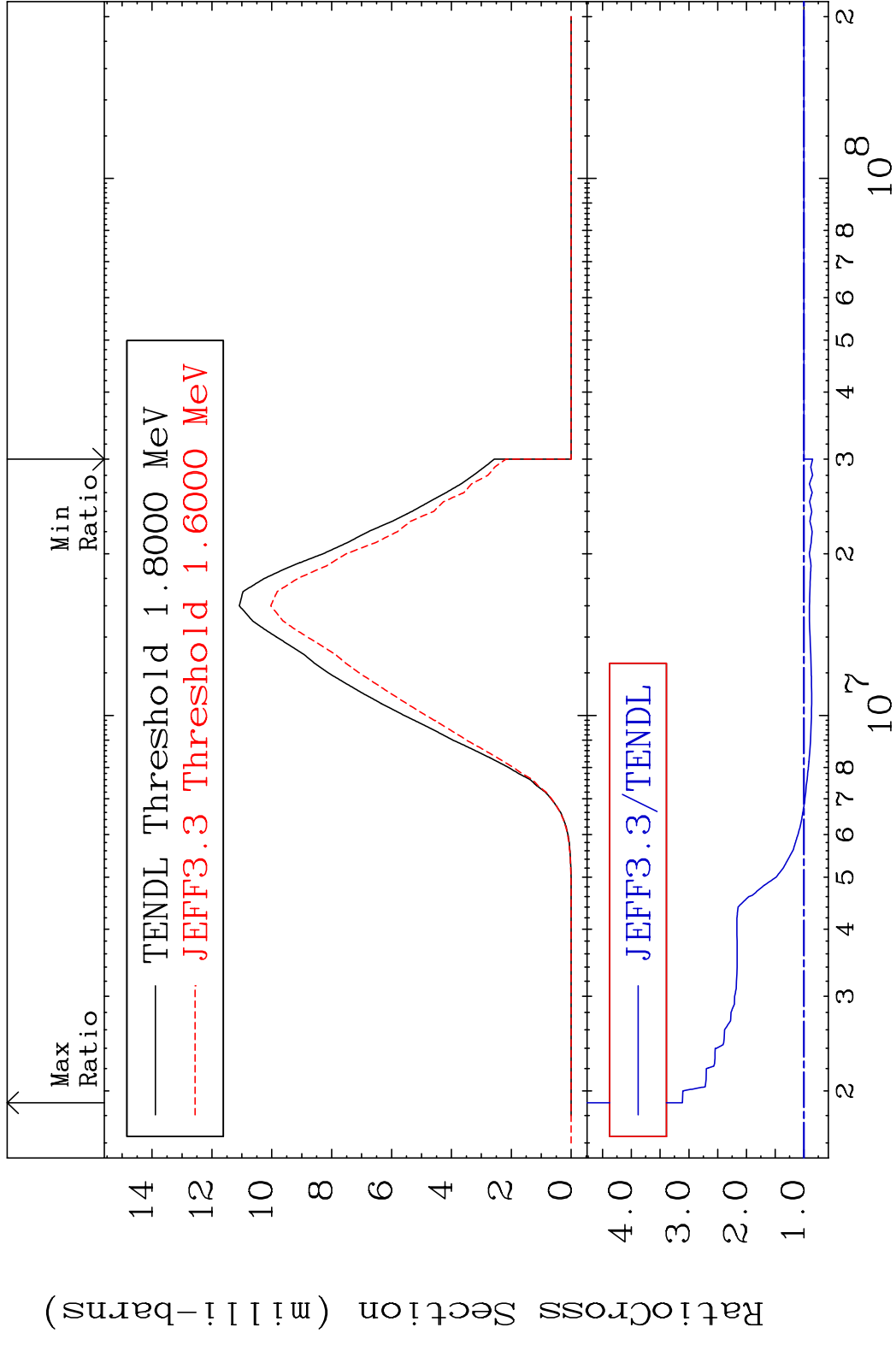
80 Incident Energy (MeV) 23-V -49

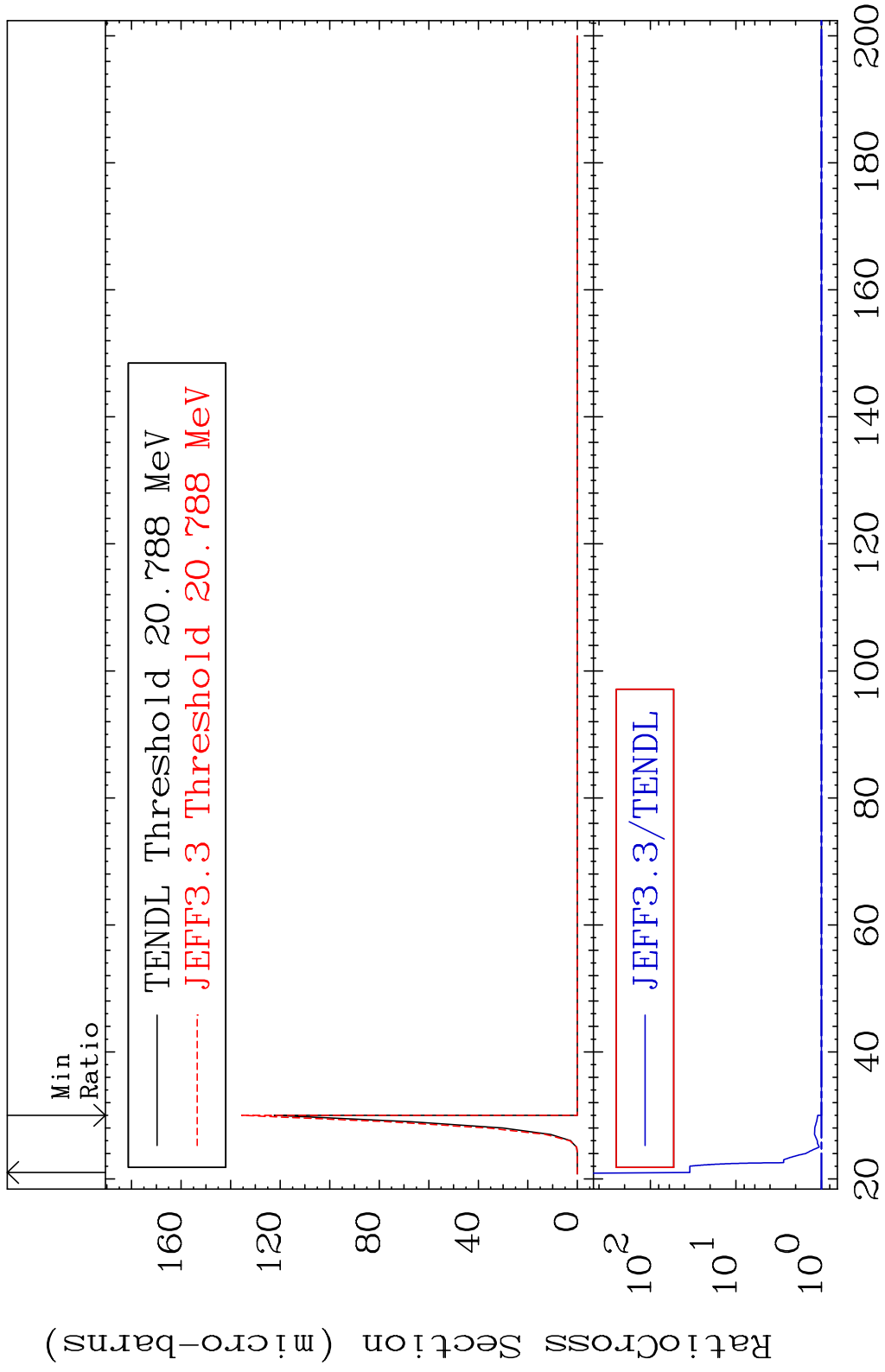












MAT 2322 (n,p) t:21-Sc-46m2 23-V -49
 Radionuclide Production Cross Section 263.3 %

