

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

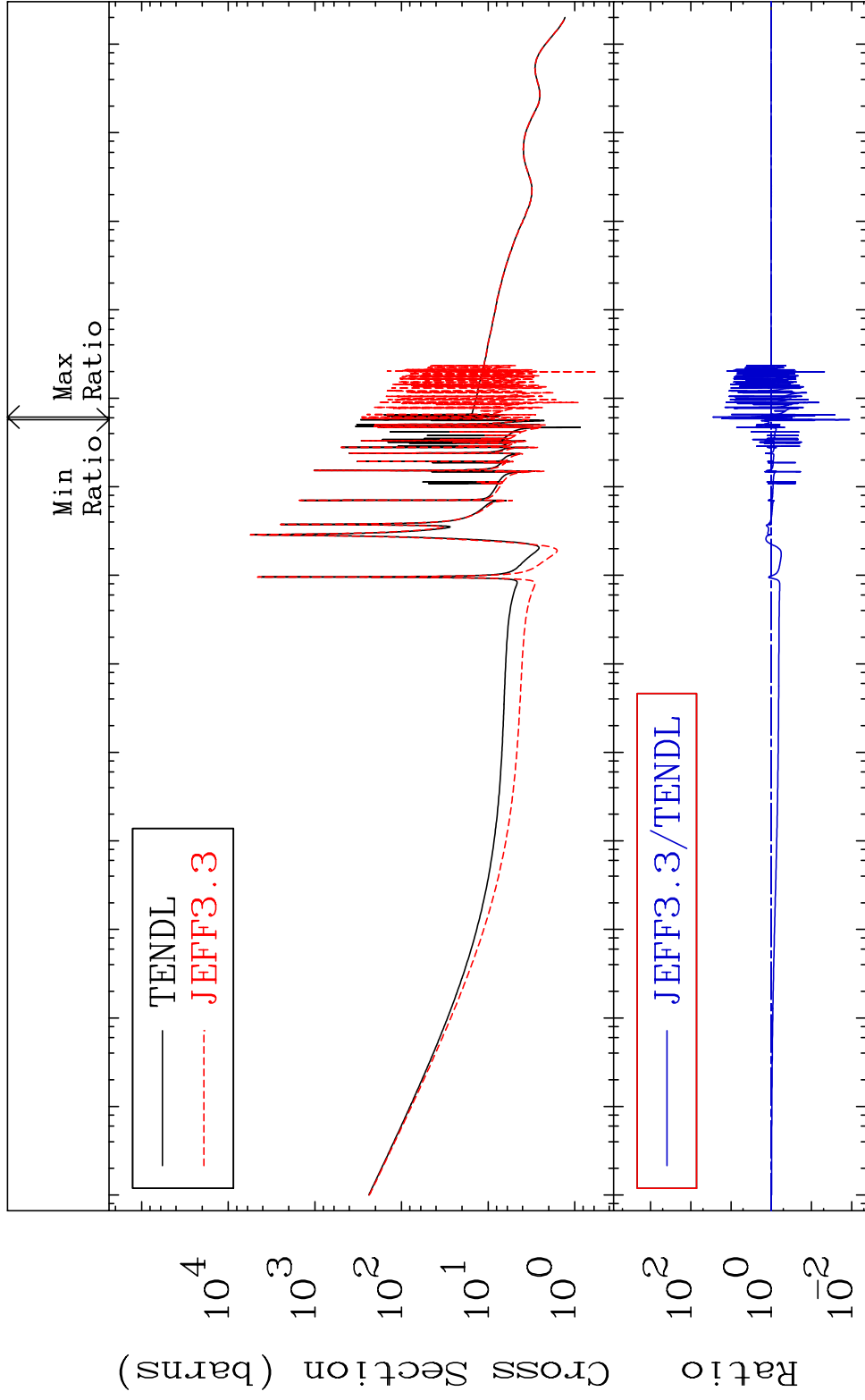
Press Mouse Button to Start

MAT 3131

Total

31-Ga-71

Cross Section -98.85 To 2674. %



1

Incident Energy (eV)

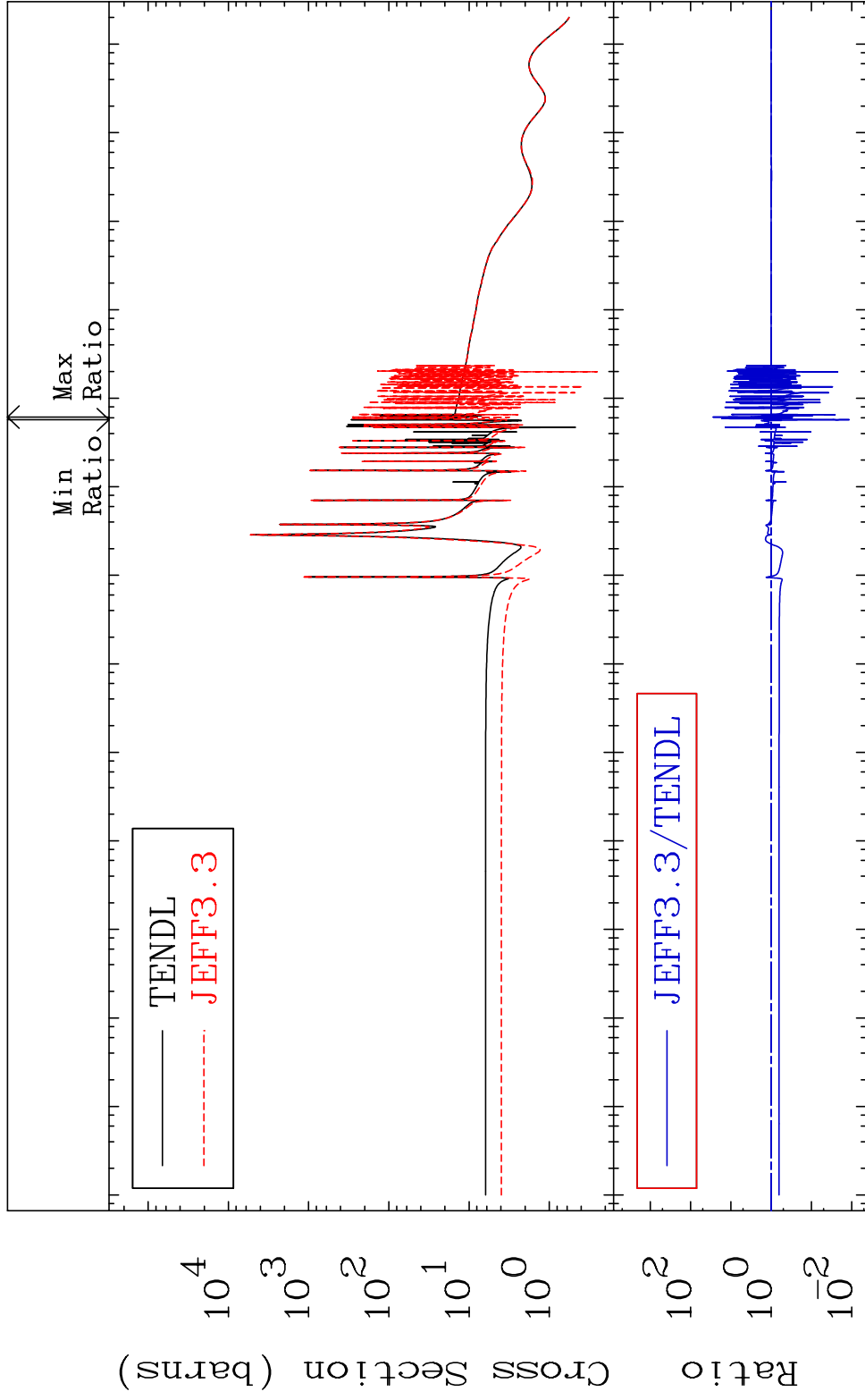
31-Ga-71

MAT 3131

Elastic

31-Ga-71

Cross Section -98.85 To 2649. %



2

Incident Energy (eV)

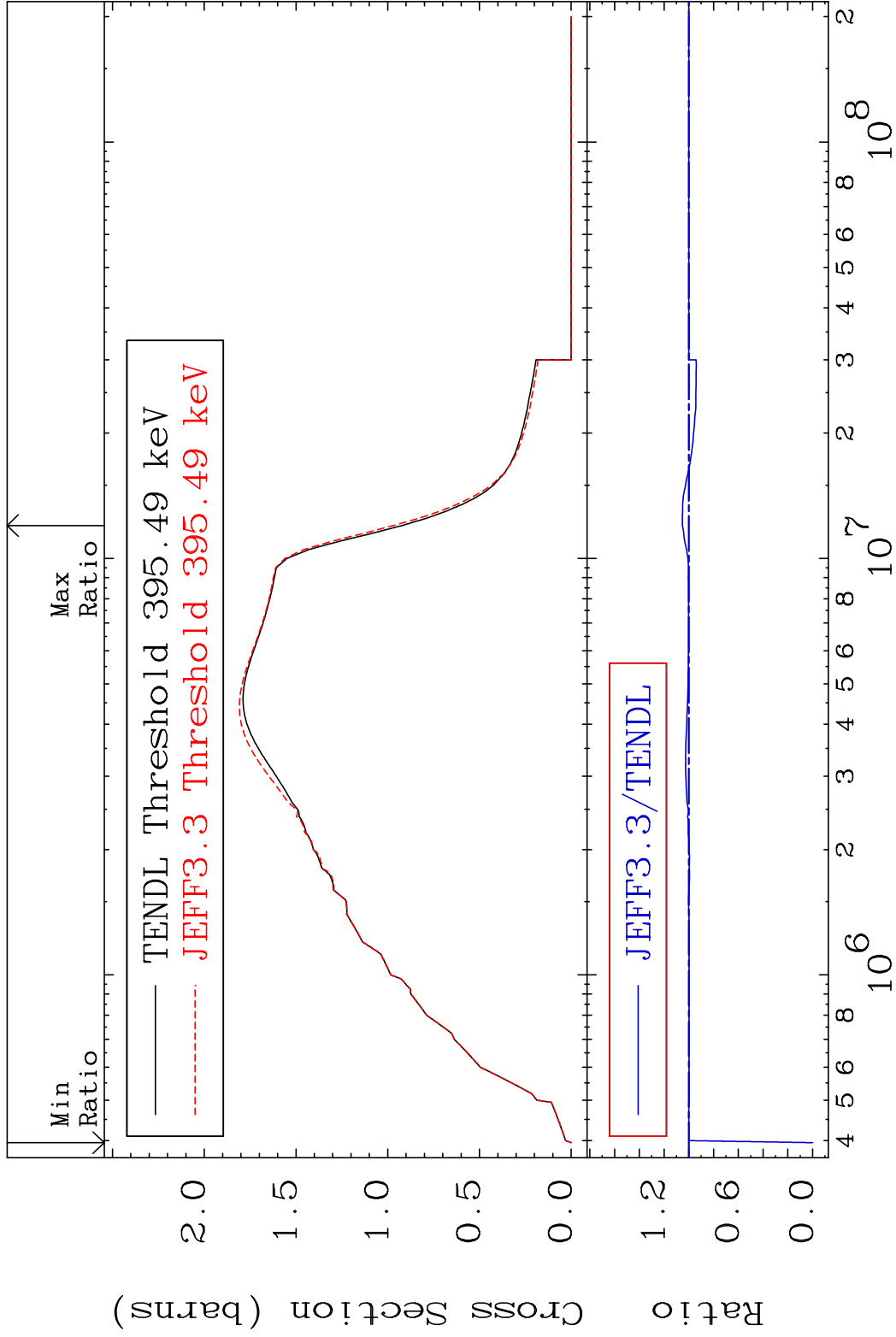
31-Ga-71

MAT 3131

31-Ga-71

Inelastic

Cross Section -100.0 To 5.231 %



3

Incident Energy (eV)

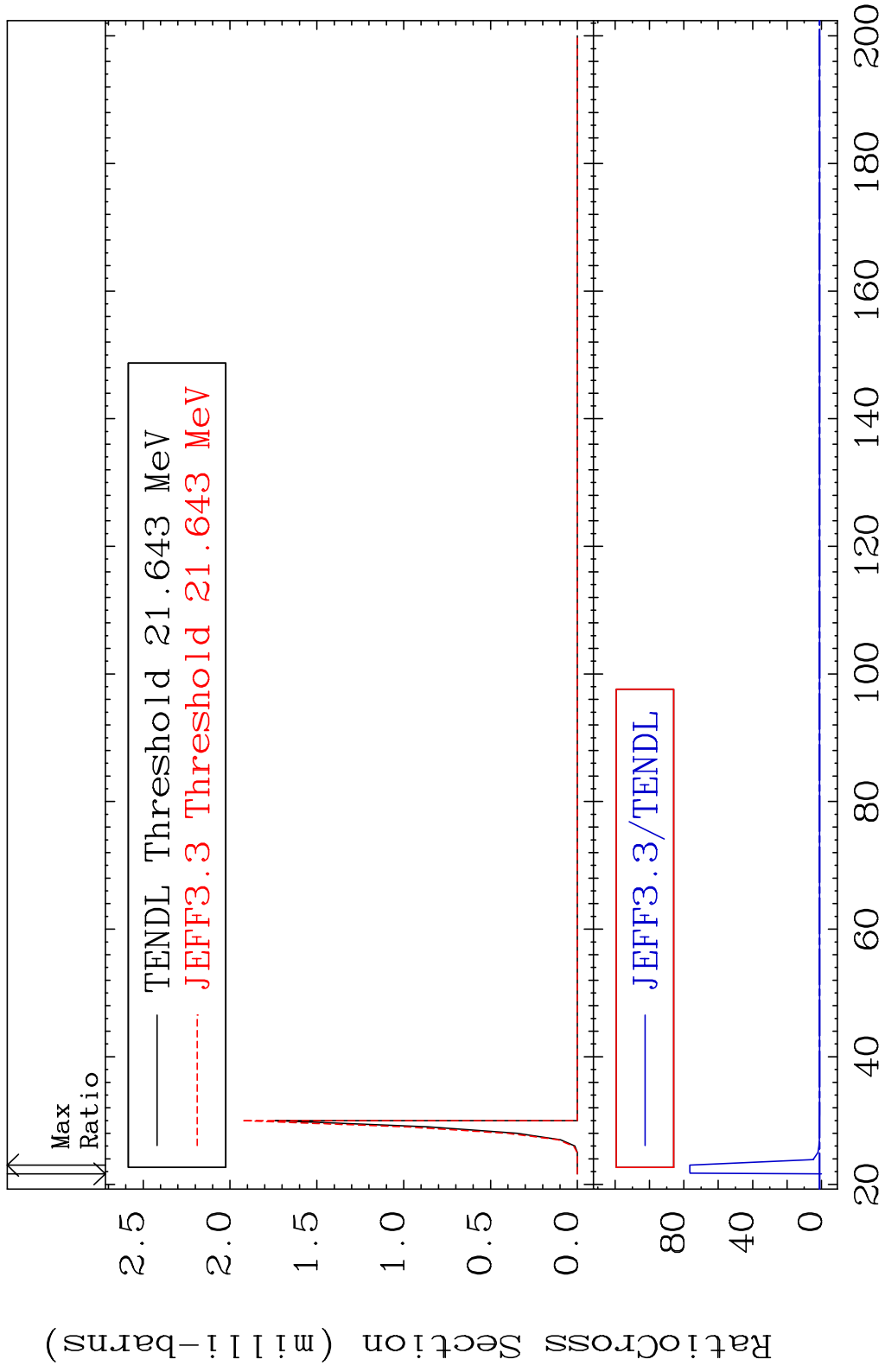
31-Ga-71

MAT 3131

(n,2n) d

31-Ga-71

Cross Section -100.0 To 7557. %



4

Incident Energy (MeV)

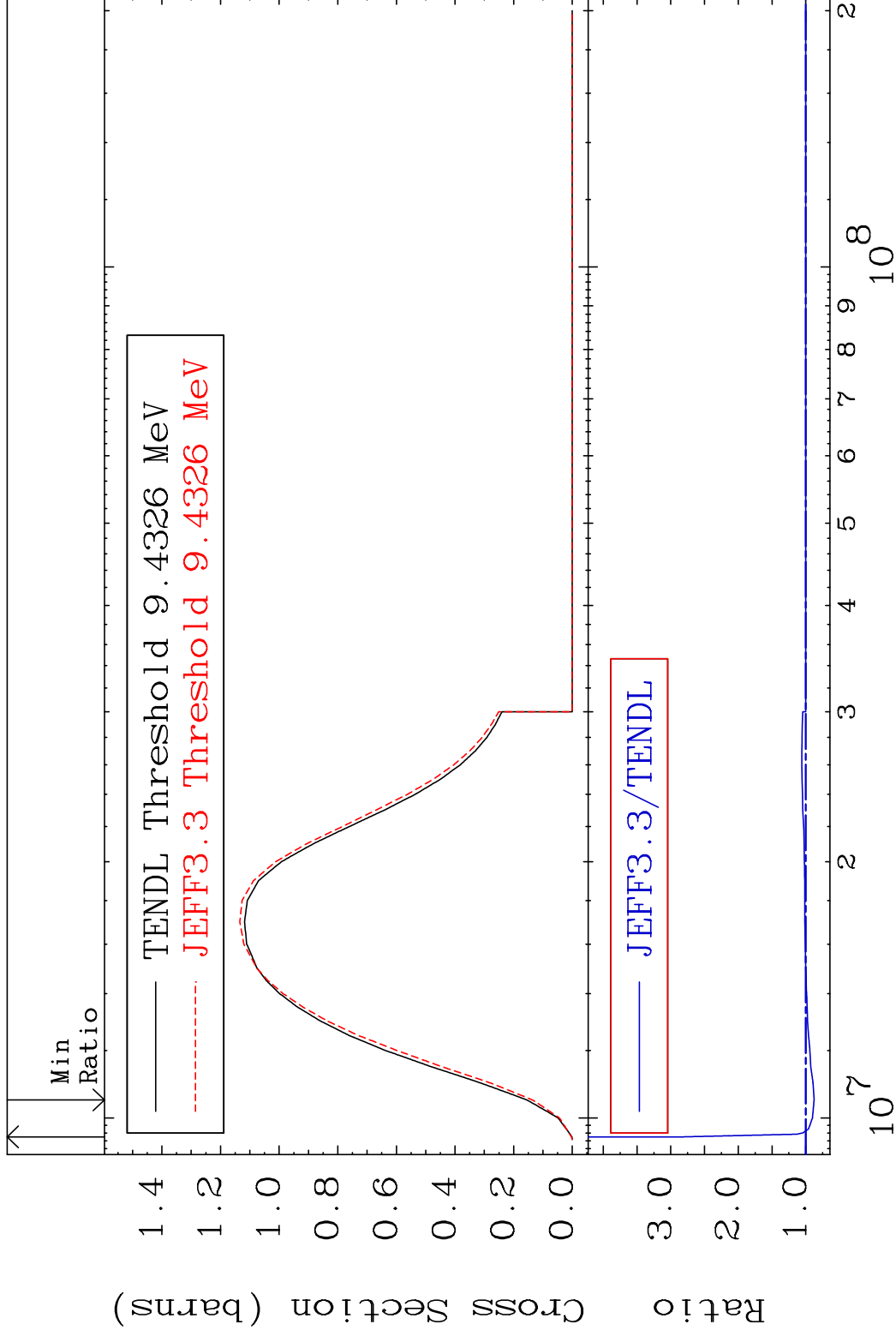
31-Ga-71

MAT 3131

(n,2n)

31-Ga-71

Cross Section -12.33 To 180.9 %



5

Incident Energy (eV)

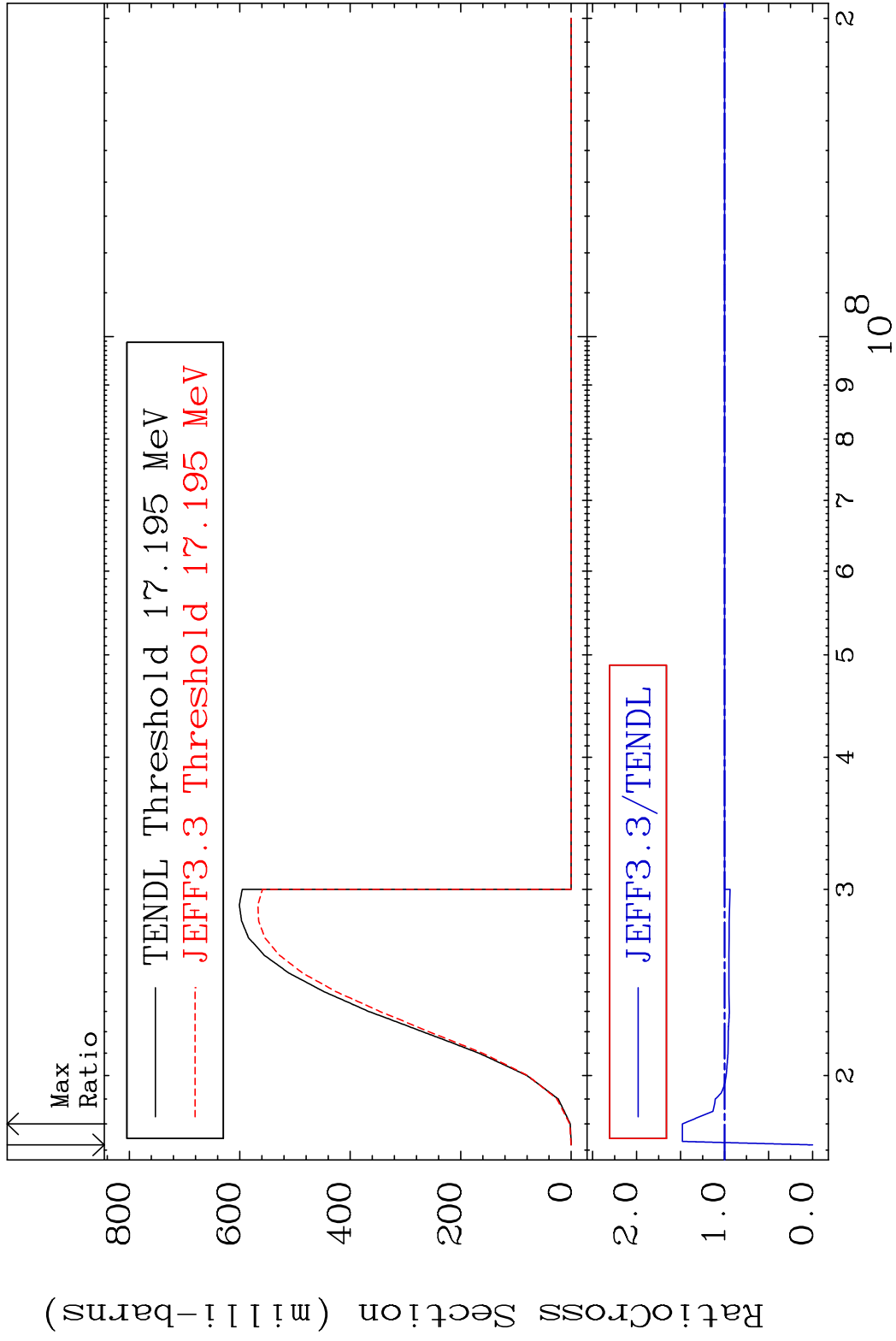
31-Ga-71

MAT 3131

(n,3n)

31-Ga-71

Cross Section -100.0 To 47.98 %

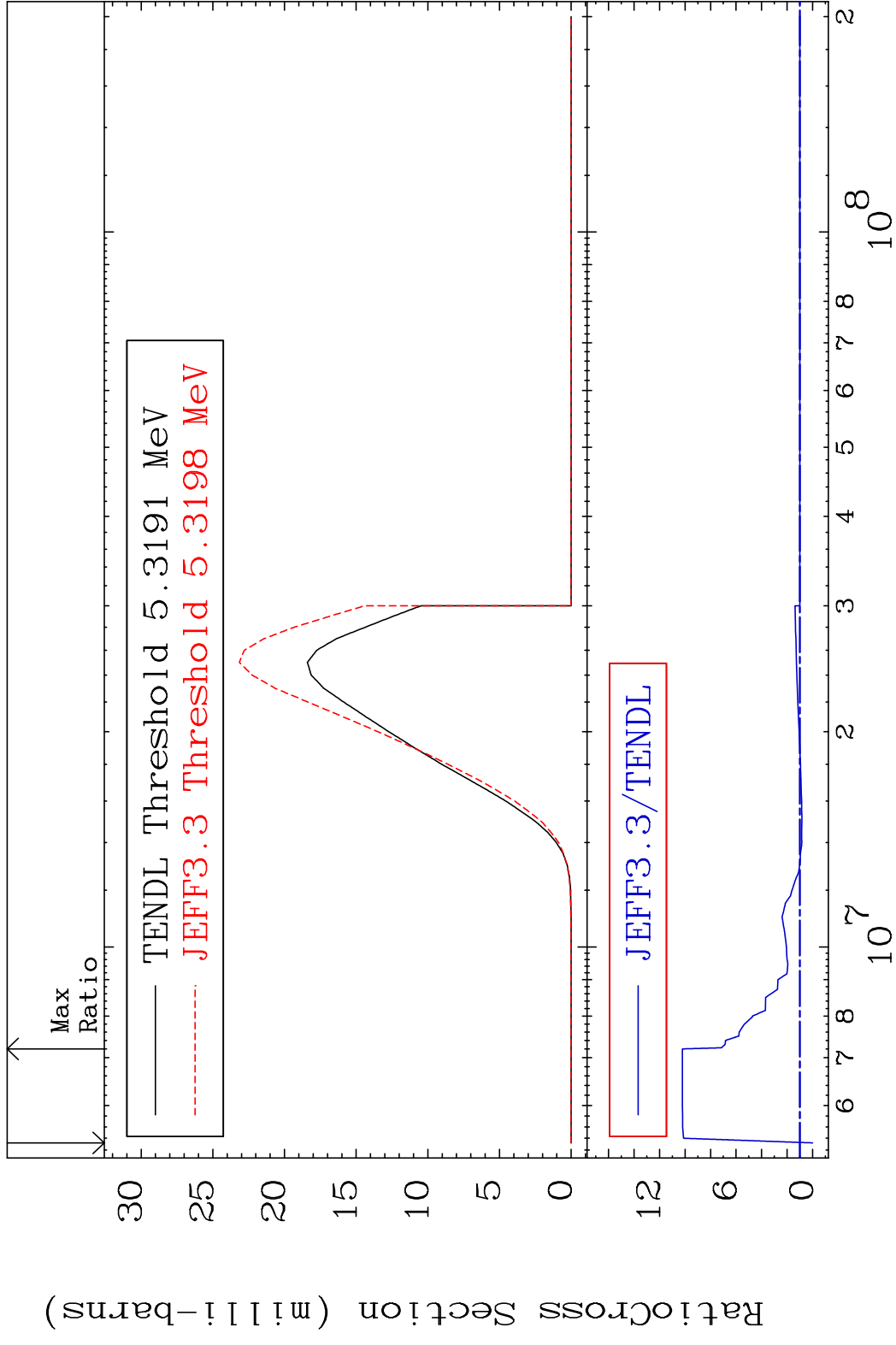


6

Incident Energy (eV)

31-Ga-71

MAT 3131 $(n, n') \alpha$ 31-Ga-71
 Cross Section -100.0 To 921.3 %



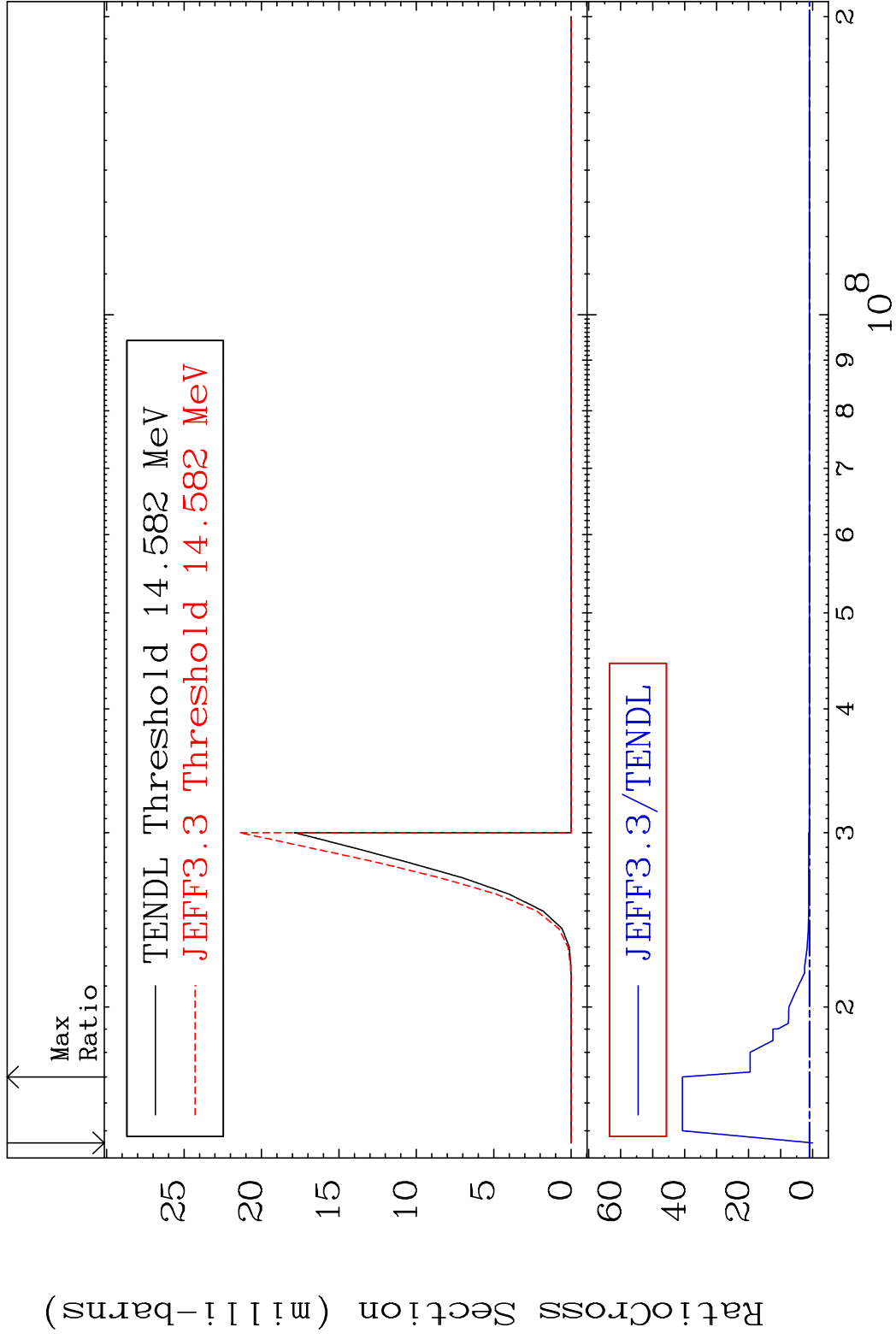
7 31-Ga-71

MAT 3131

(n,2n) α

31-Ga-71

Cross Section -100.0 To 3971. %



8

Incident Energy (eV)

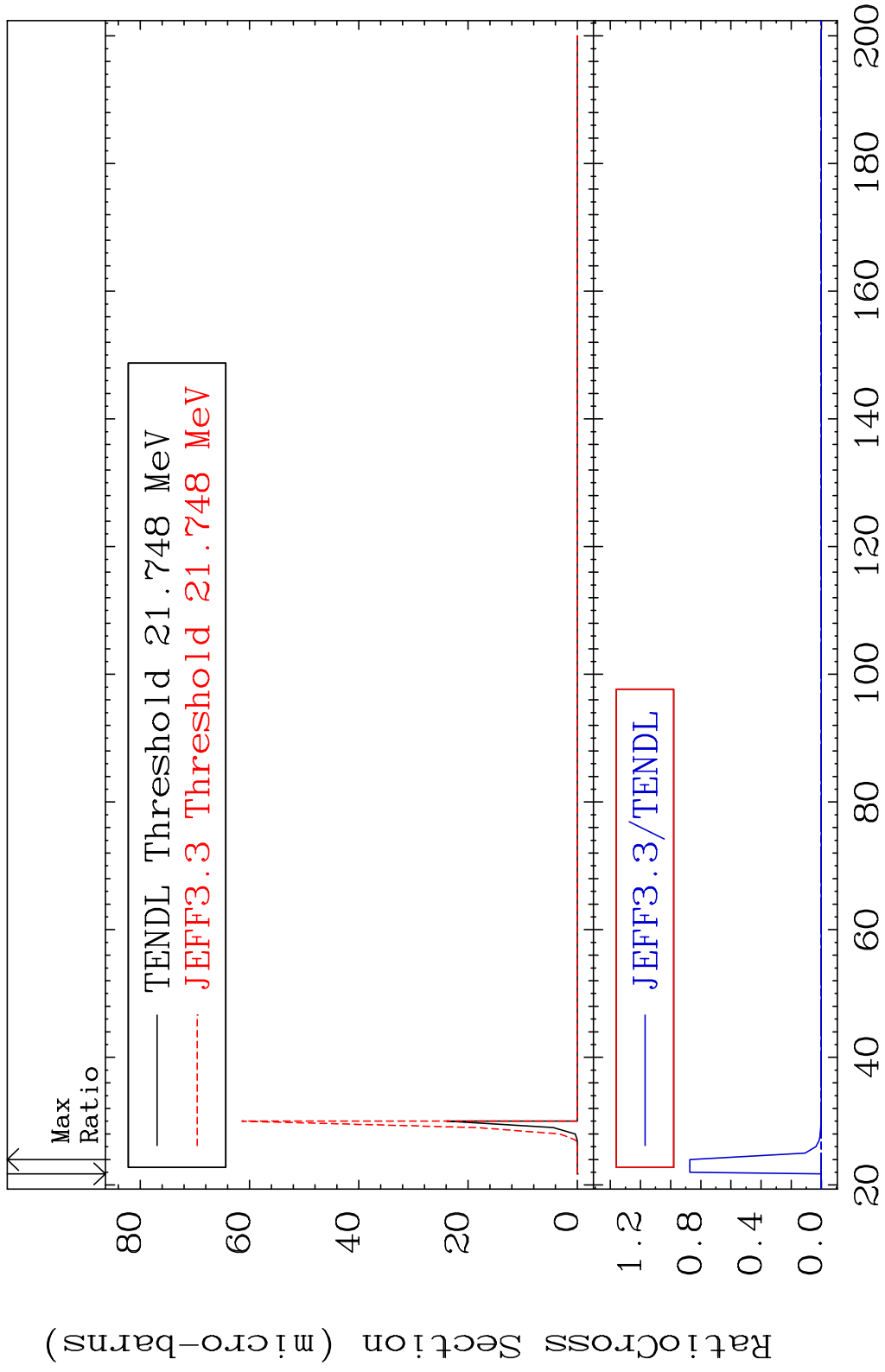
31-Ga-71

MAT 3131

(n,3n) α

31-Ga-71

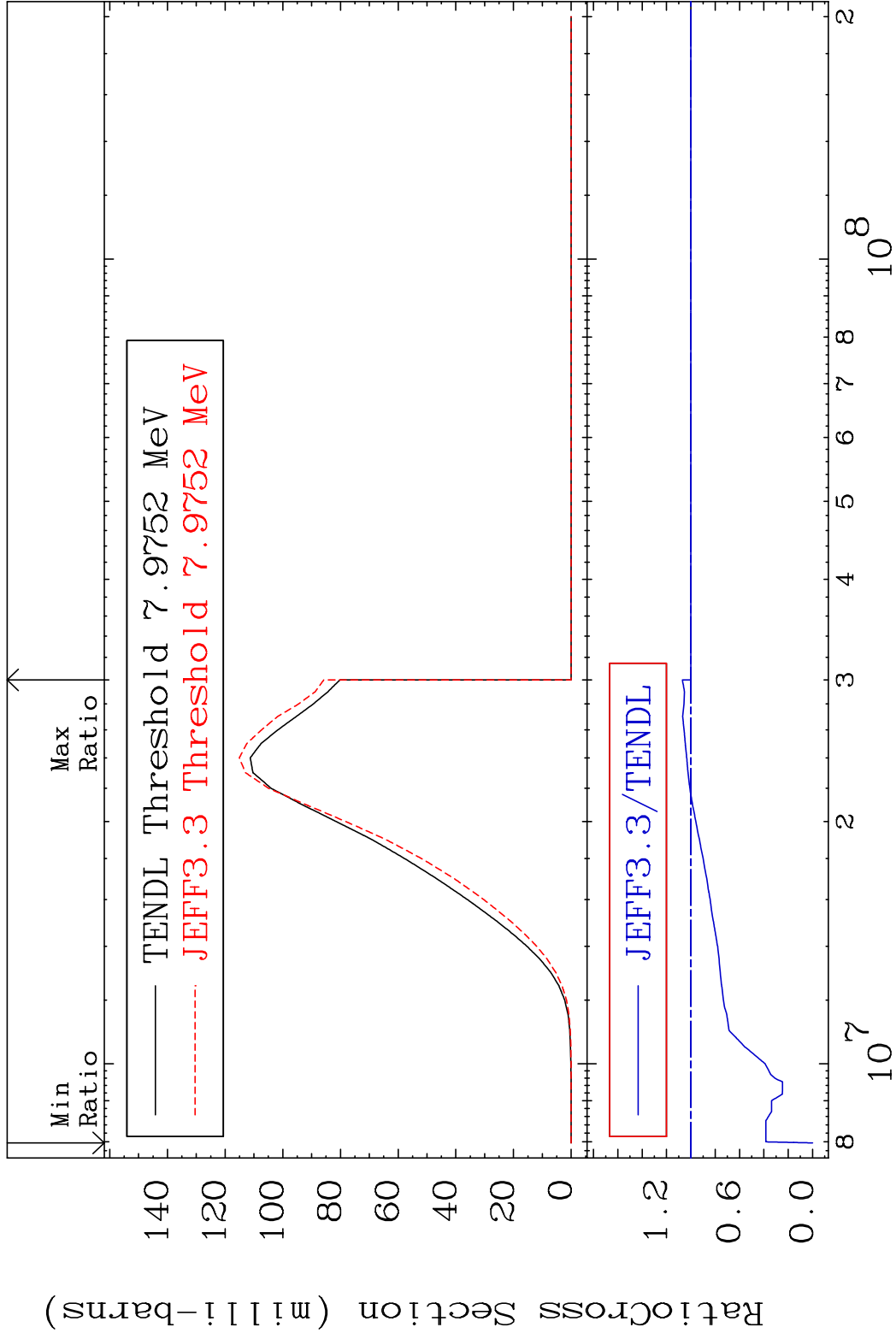
Cross Section -100.0 To 9999. %



MAT 3131

(n, n') p 31-Ga-71

Cross Section -100.0 To 6.990 %



10

Incident Energy (eV)

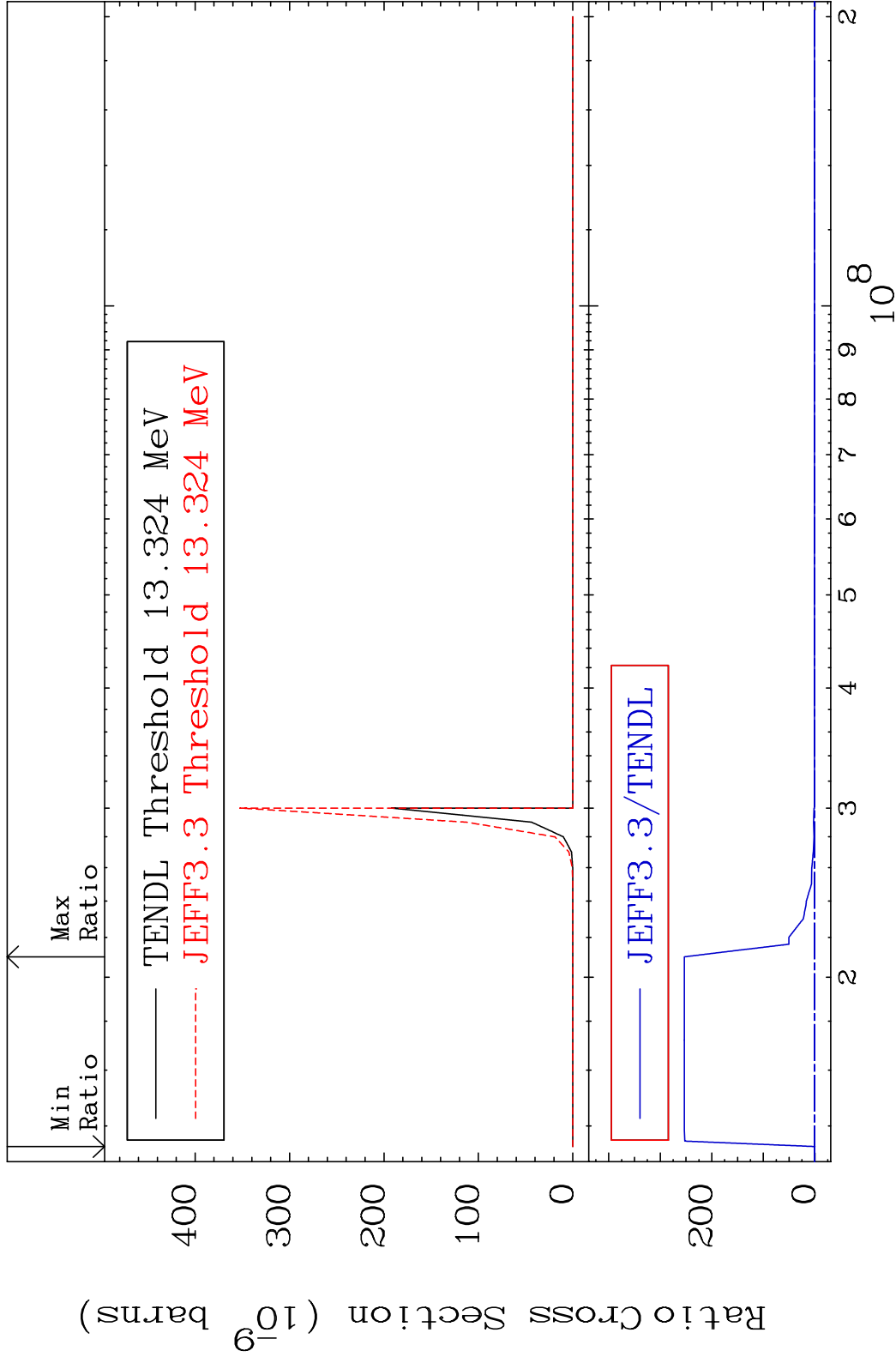
31-Ga-71

MAT 3131

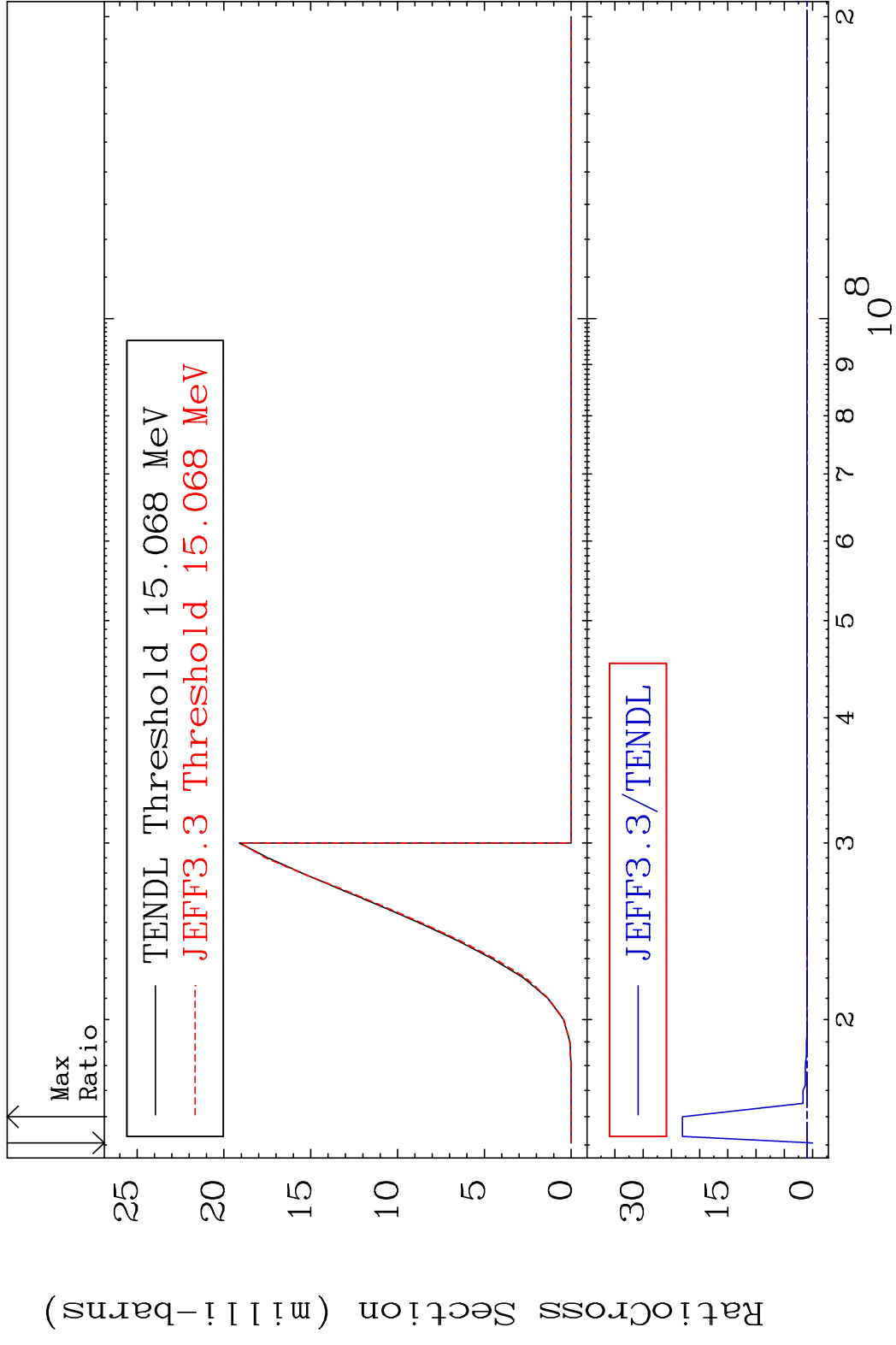
(n, n') 2 α

31-Ga-71

Cross Section -100.0 To 9999. %



MAT 3131 (n, n') d 31-Ga-71
 Cross Section -100.0 To 2207. %

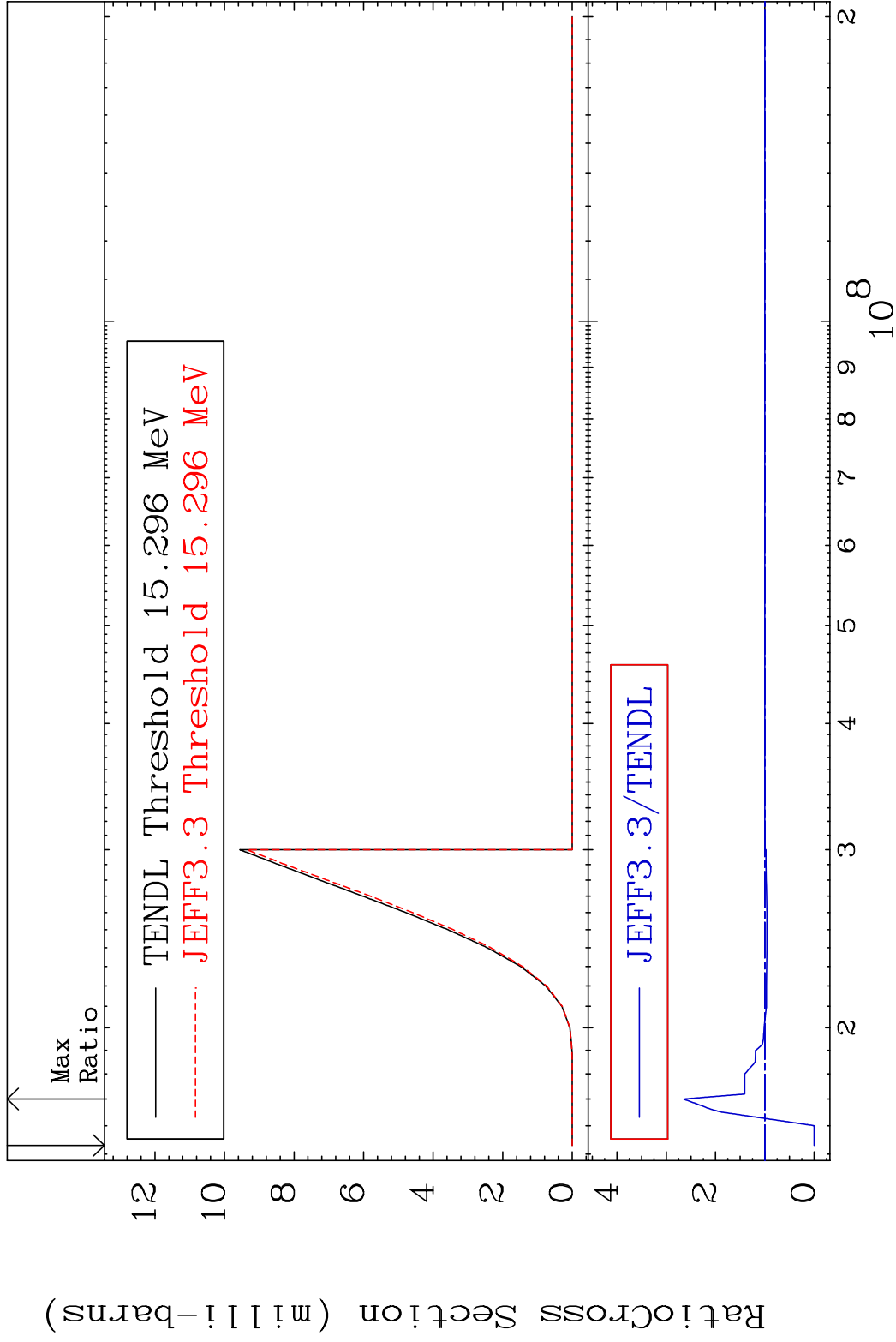


MAT 3131

(n, n') t

31-Ga-71

Cross Section -100.0 To 164.7 %



13

Incident Energy (eV)

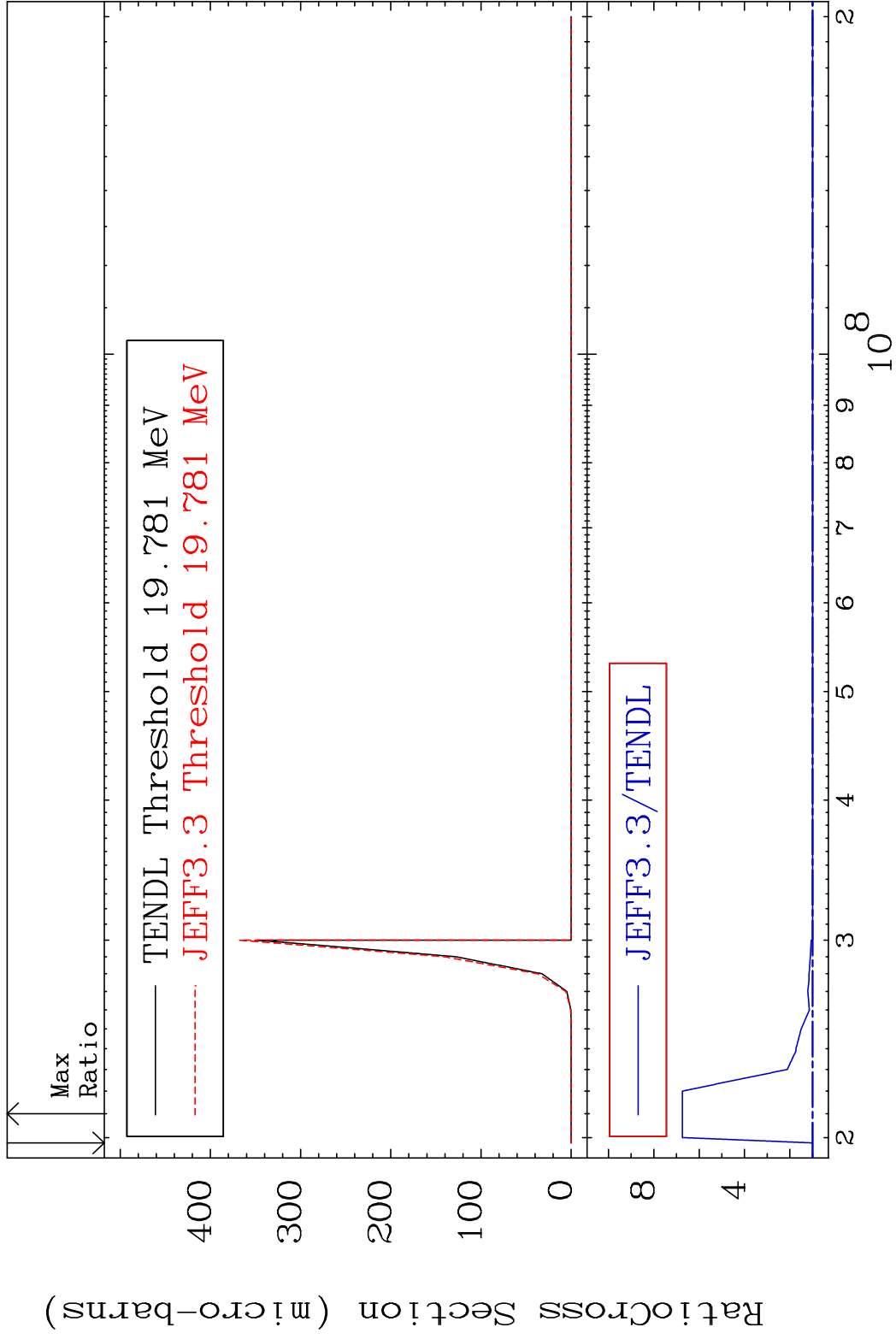
31-Ga-71

MAT 3131

(n,n') He-3

31-Ga-71

Cross Section 0.000 To 574.2 %



14

Incident Energy (eV)

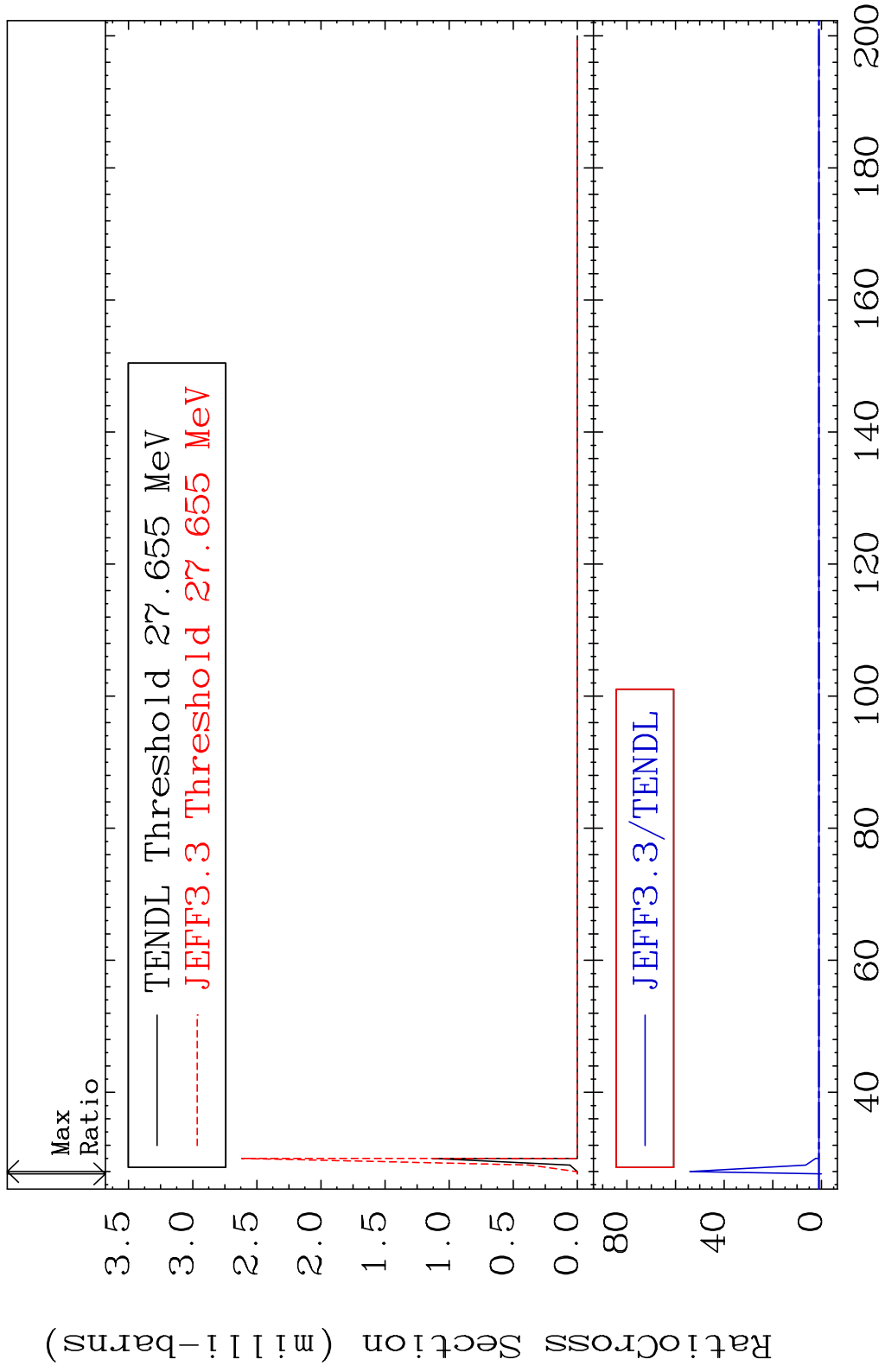
31-Ga-71

MAT 3131

(n,4n)

31-Ga-71

Cross Section -100.0 To 5314. %

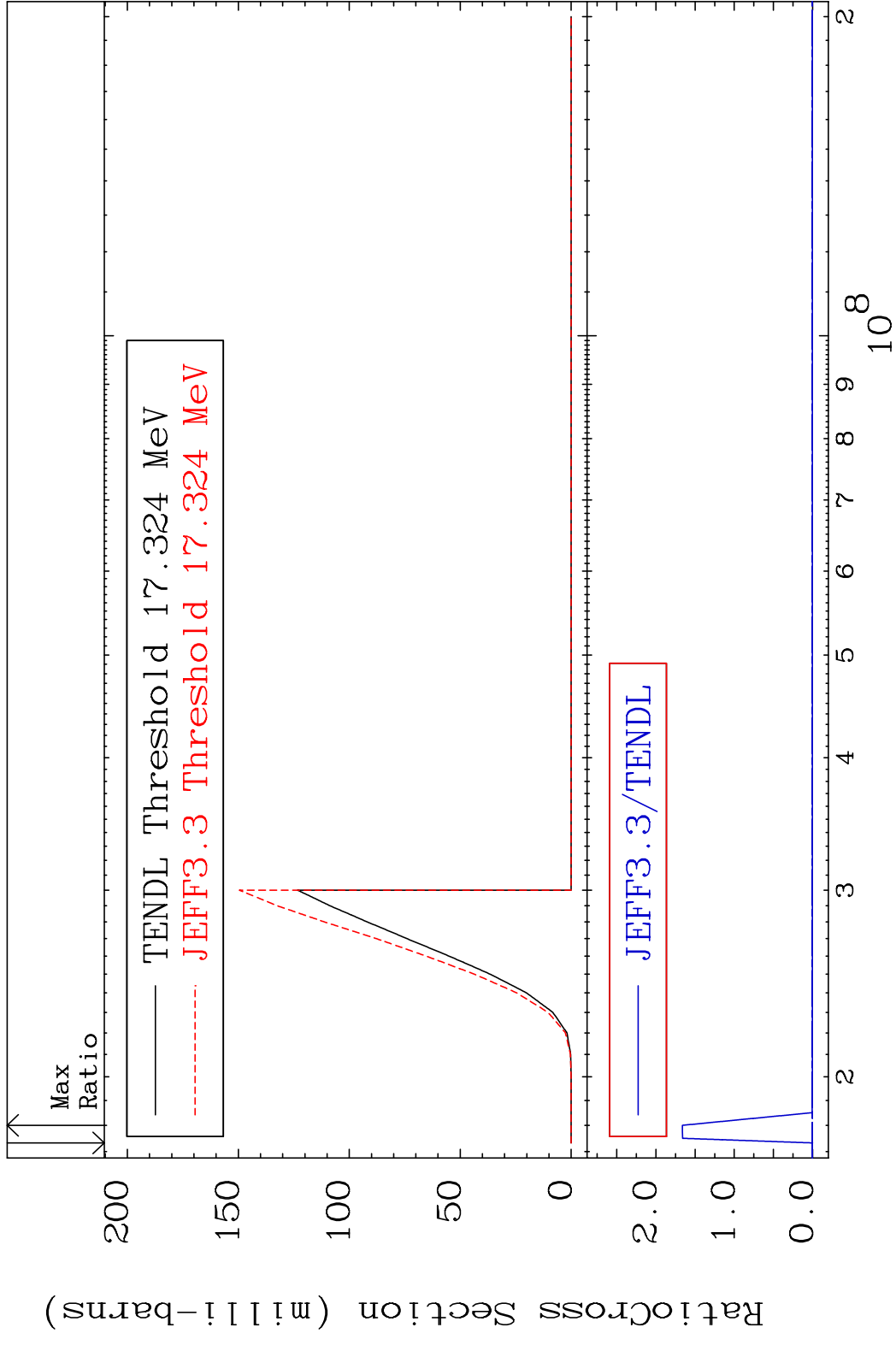


15

Incident Energy (MeV)

31-Ga-71

MAT 3131 (n,2n) p 31-Ga-71
 Cross Section -100.0 To 9999. %

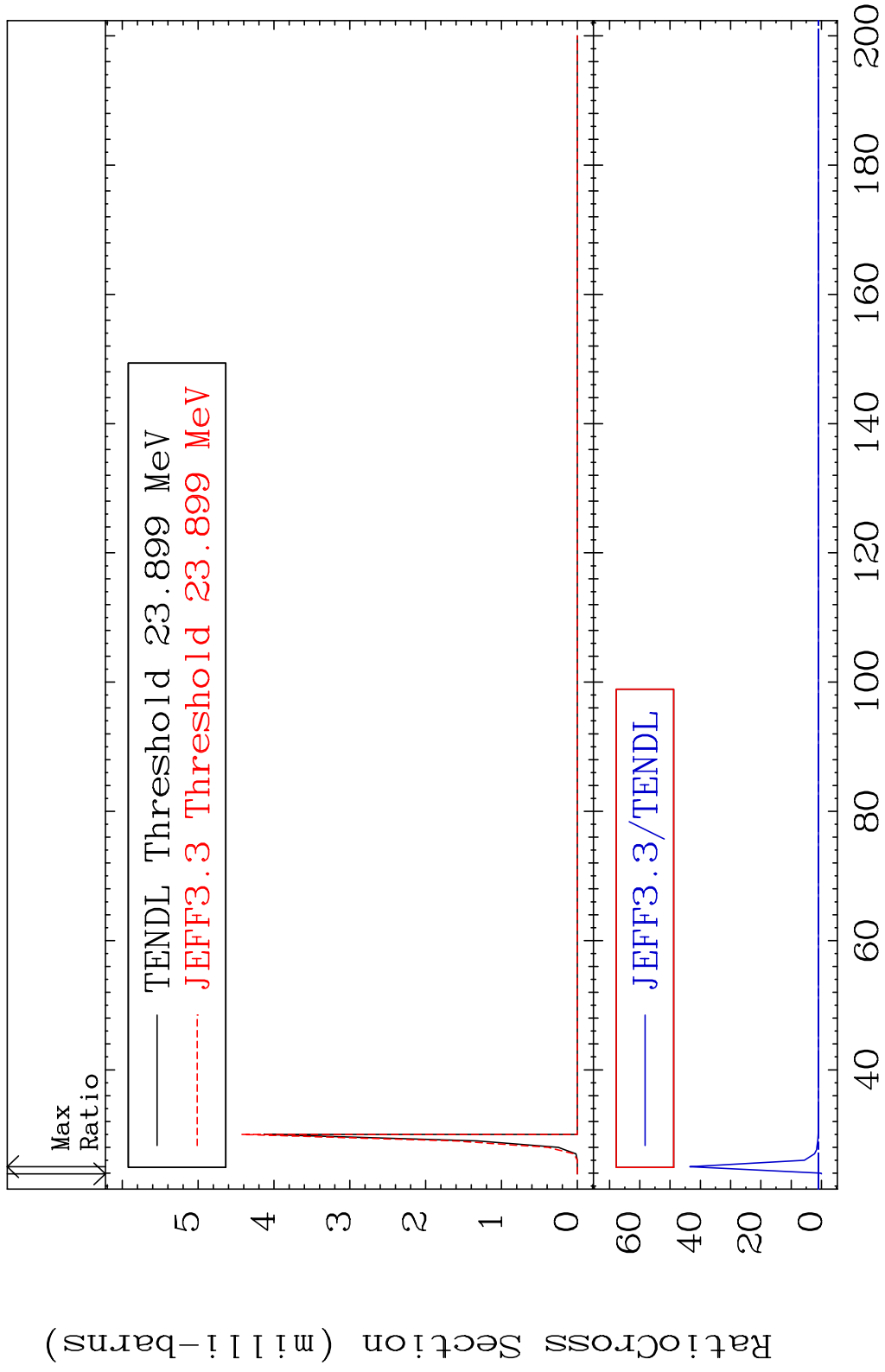


MAT 3131

(n,3n) p

31-Ga-71

Cross Section -100.0 To 4249. %



17

Incident Energy (MeV)

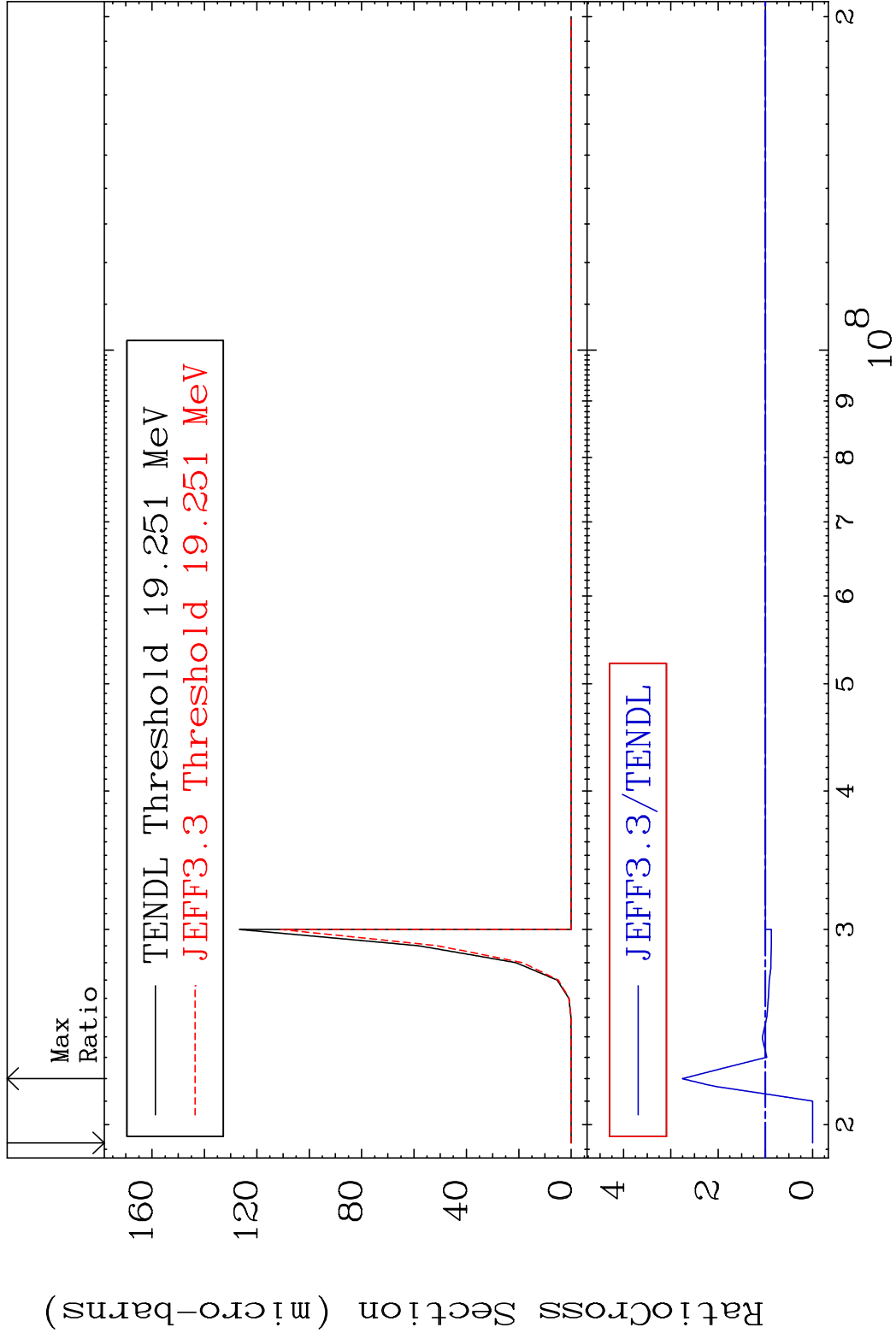
31-Ga-71

MAT 3131

(n,2n) p

31-Ga-71

Cross Section -100.0 To 175.7 %



18

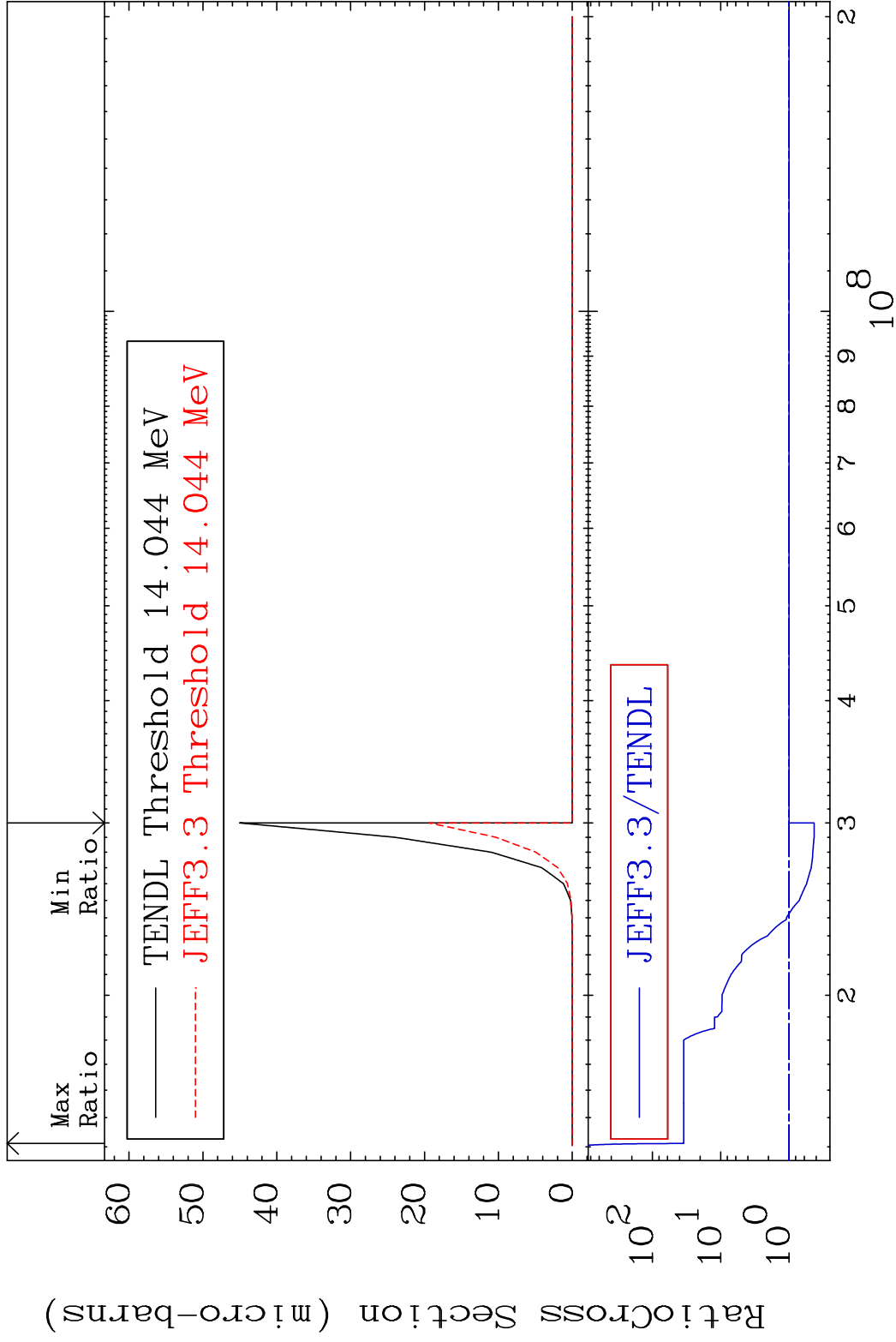
Incident Energy (eV)

31-Ga-71

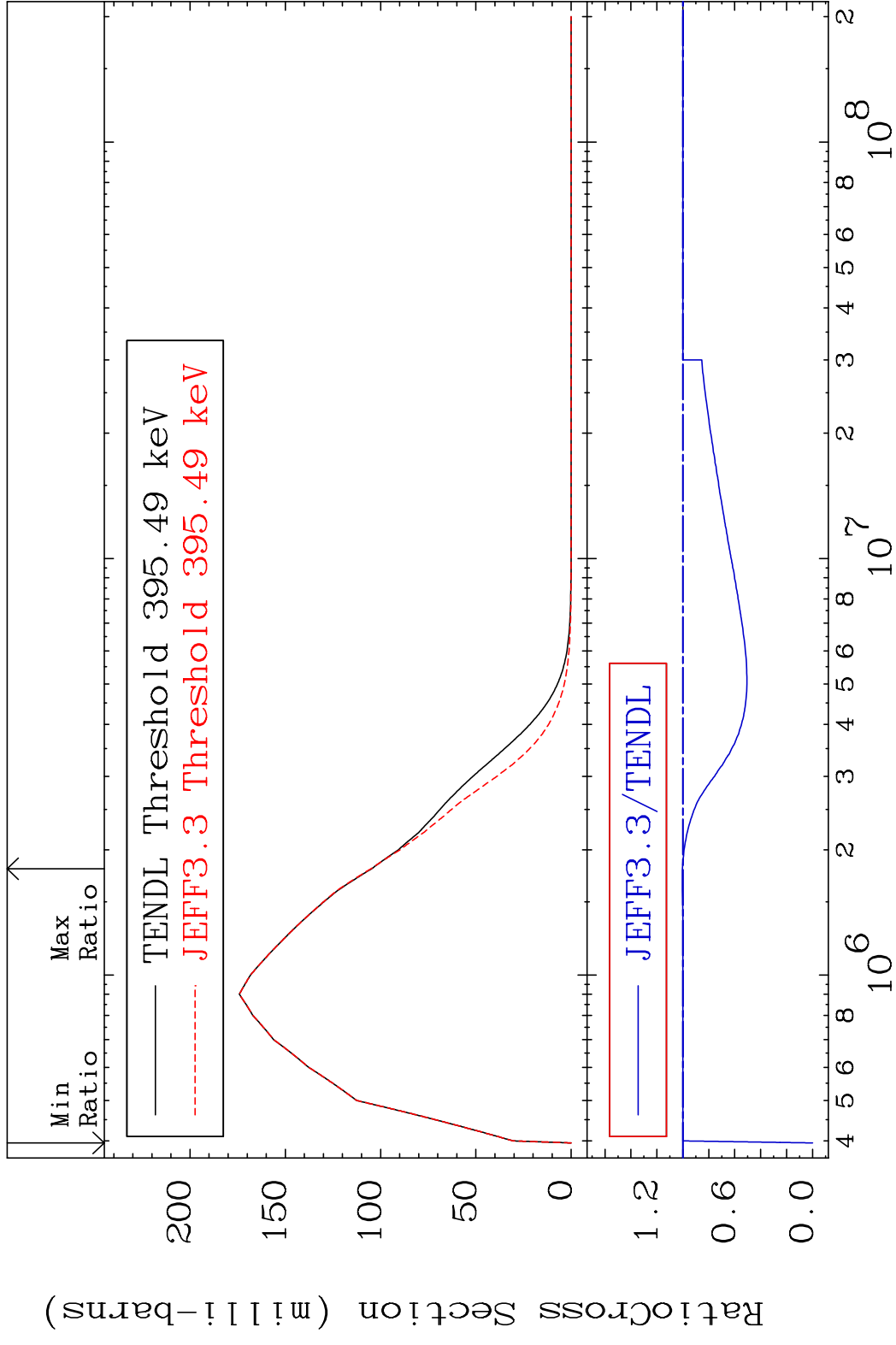
MAT 3131

(n,n') p α 31-Ga-71

Cross Section -56.97 To 3382. %

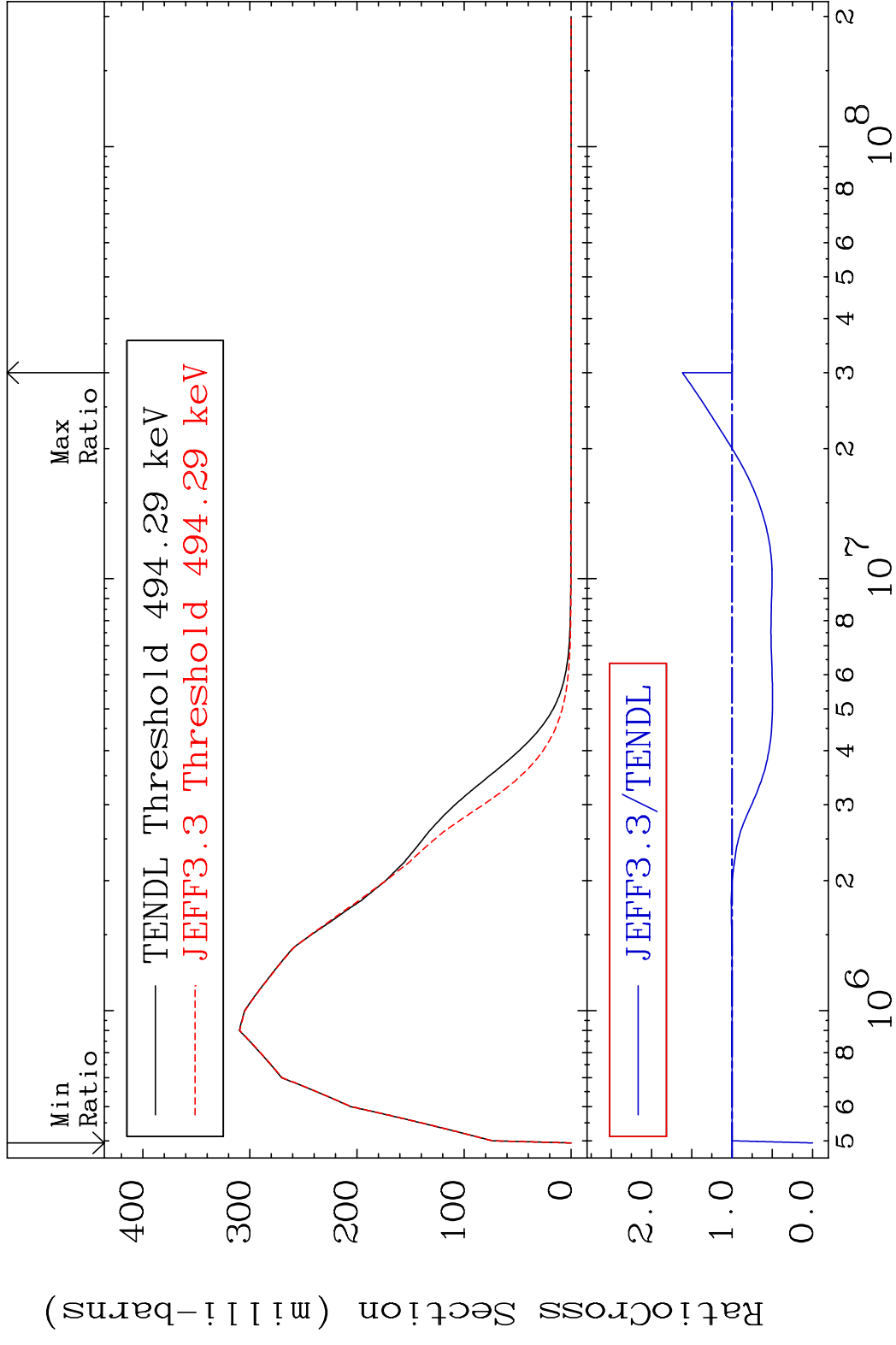


MAT 3131 MT= 51 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 0.371 %

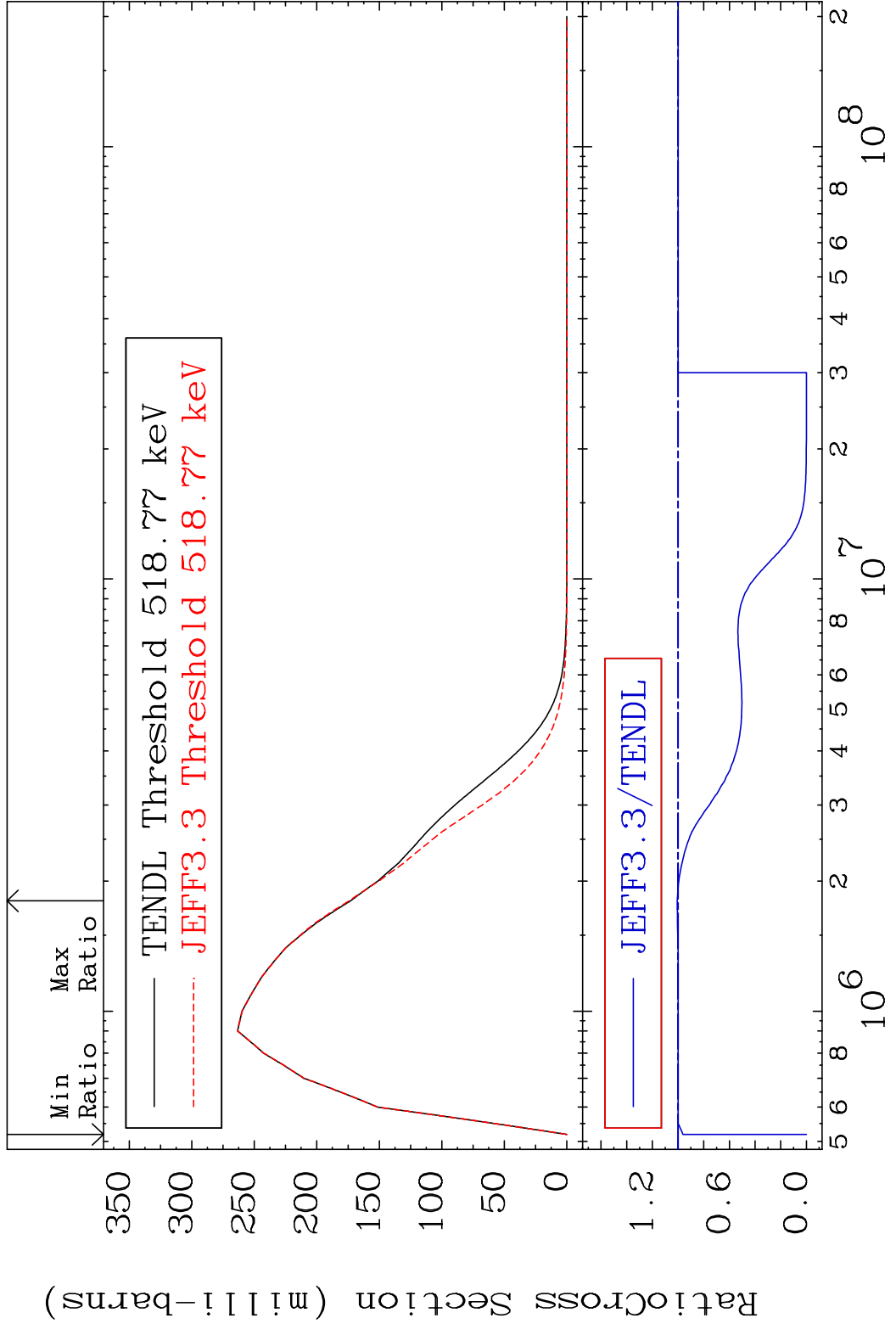


20 31-Ga-71

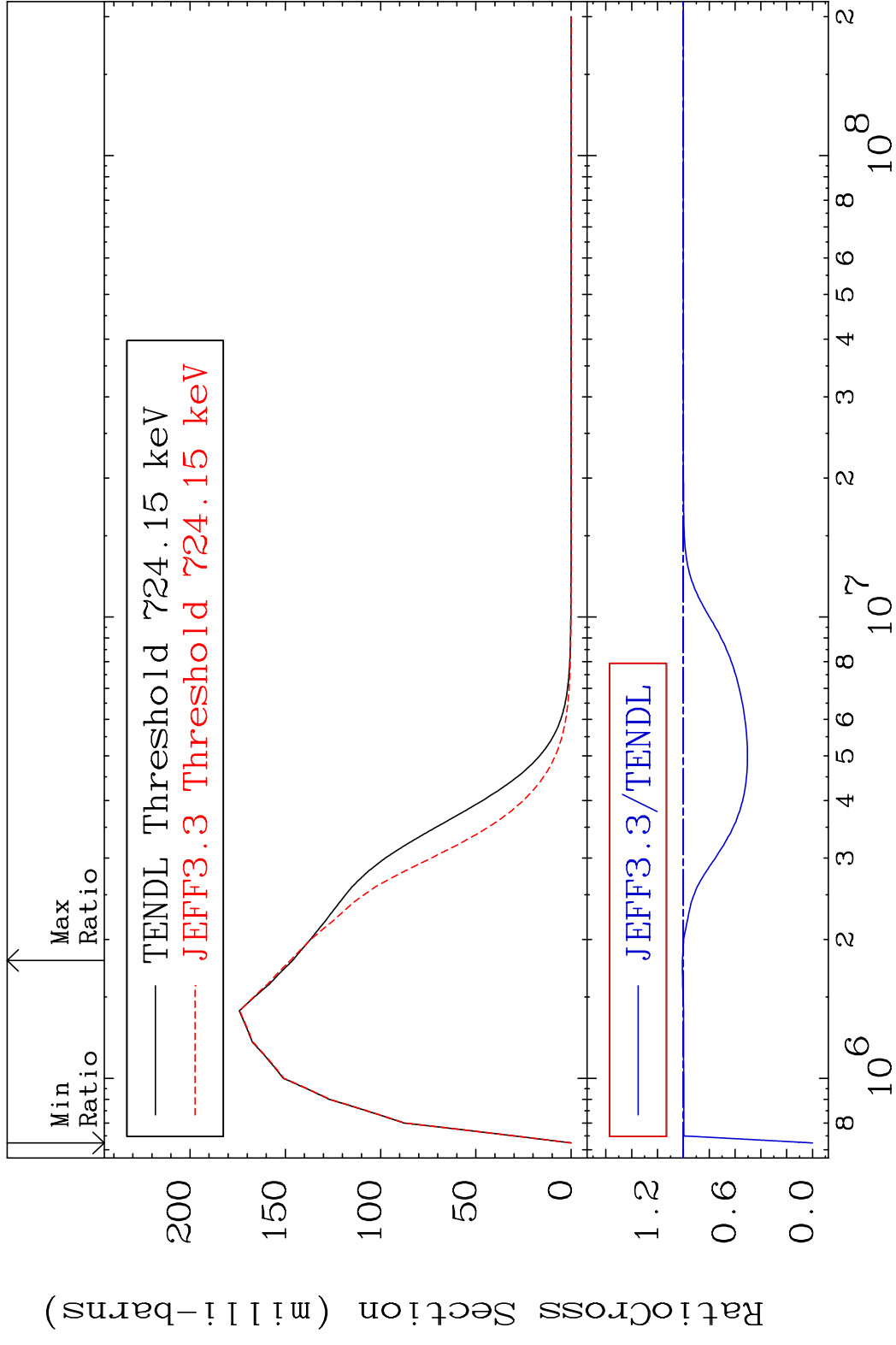
MAT 3131 MT= 52 (n,n') Level 31-Ga-71
 Cross Section -100.0 To 61.69 %



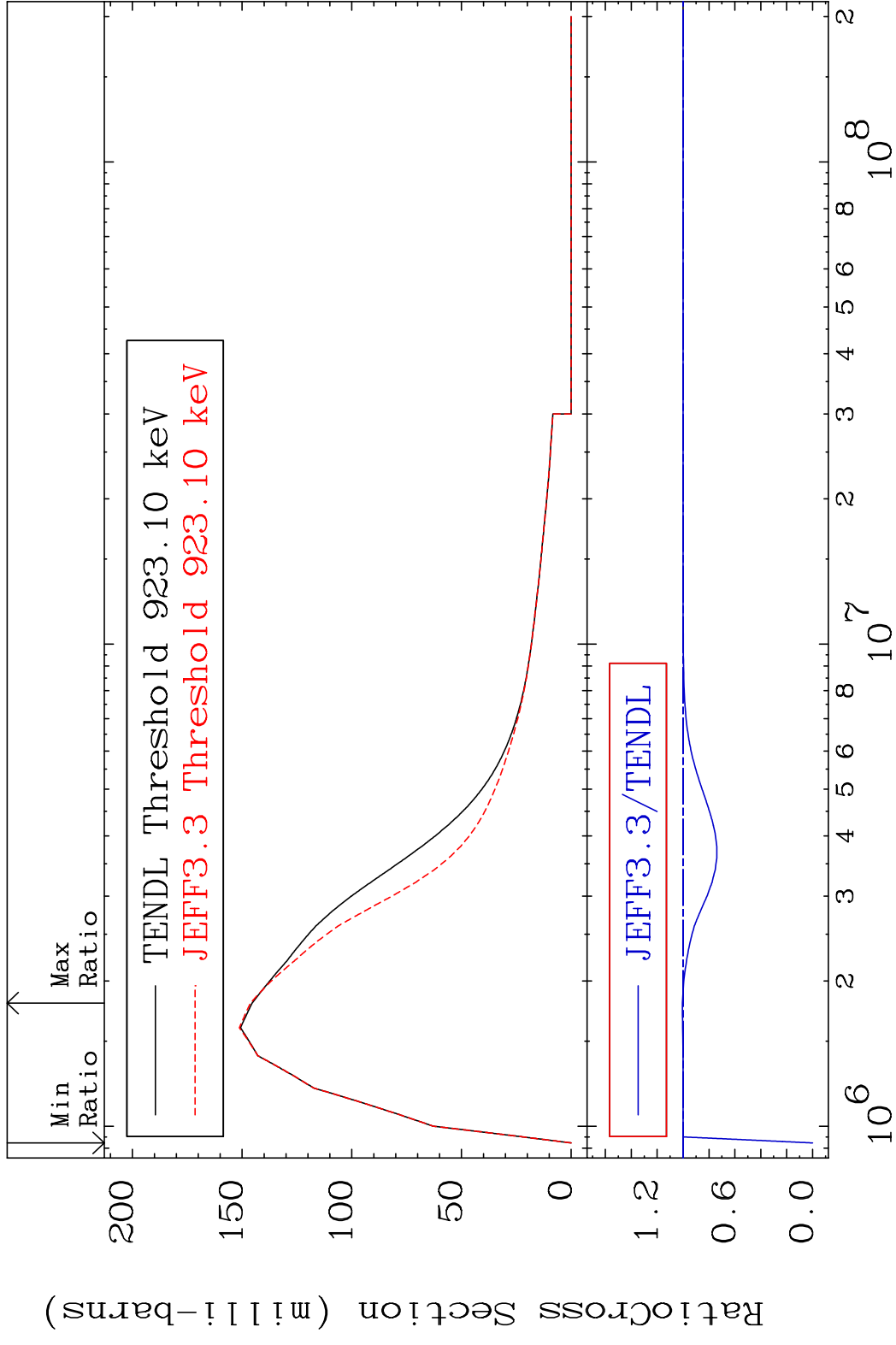
MAT 3131 MT= 53 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 0.677 %



MAT 3131 MT= 54 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 0.790 %

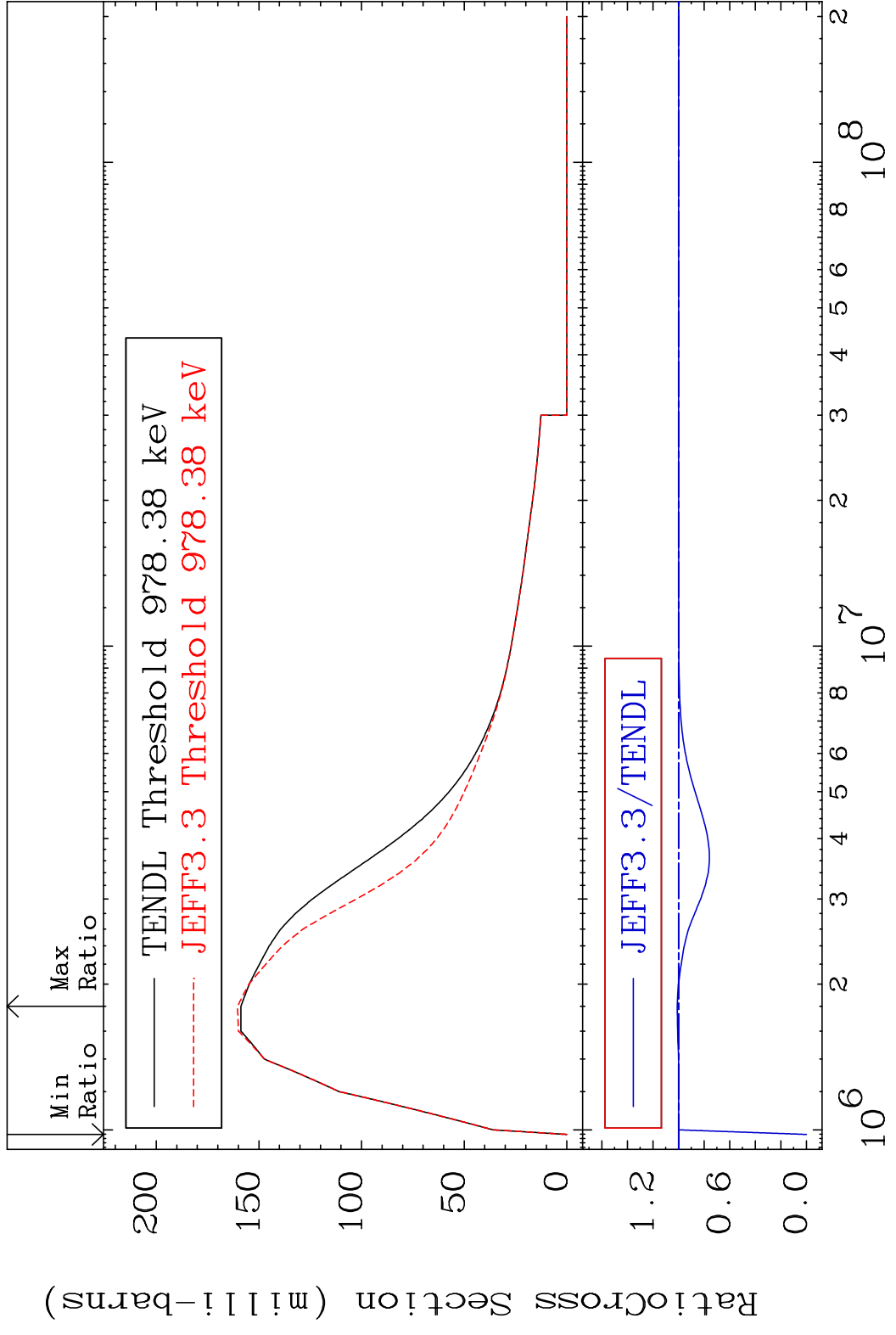


MAT 3131 MT= 55 (n,n') Level 31-Ga-71
 Cross Section -100.0 To 0.554 %



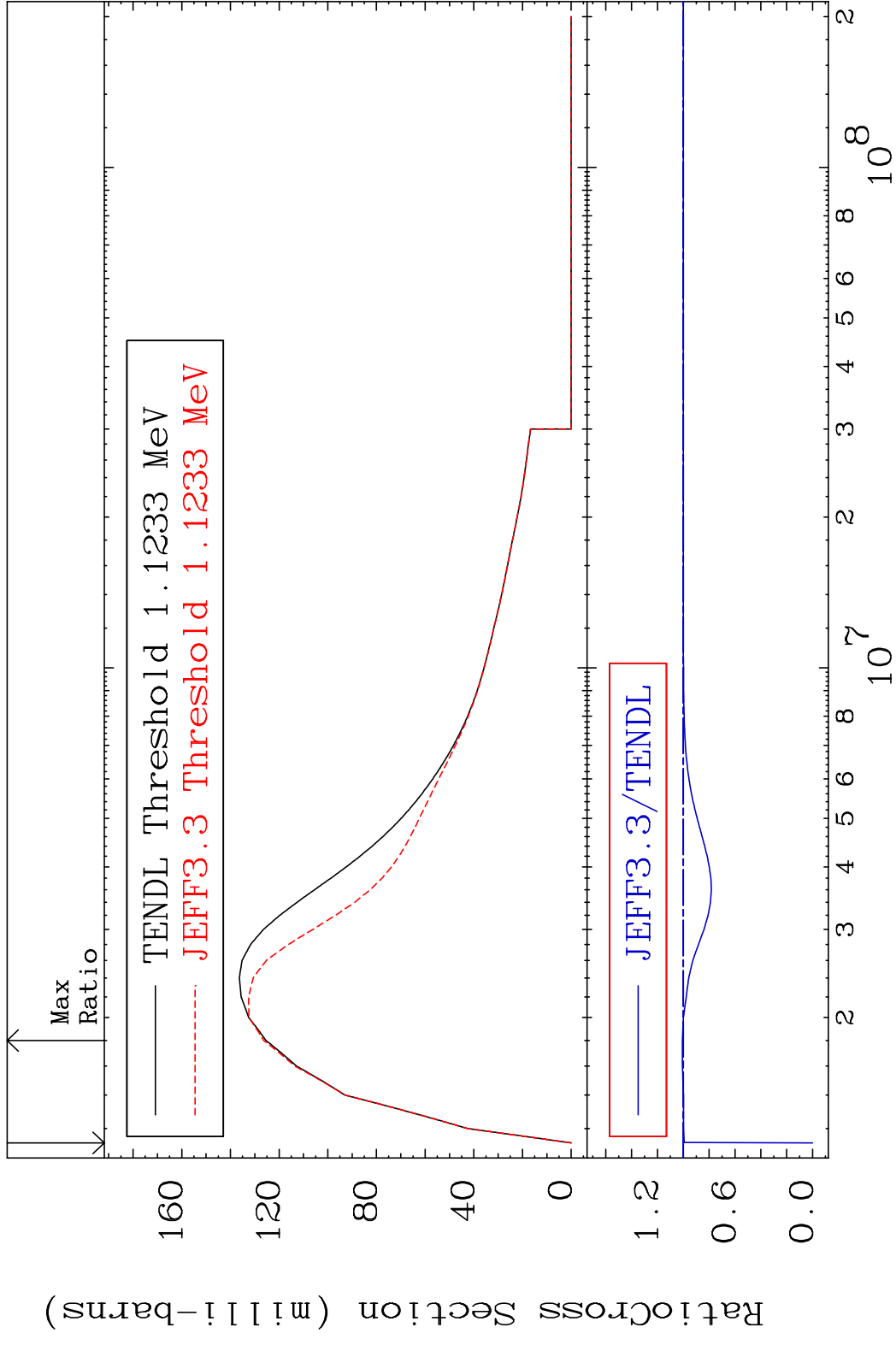
24 31-Ga-71

MAT 3131 MT= 56 (n,n') Level 31-Ga-71
 Cross Section -100.0 To 1.056 %

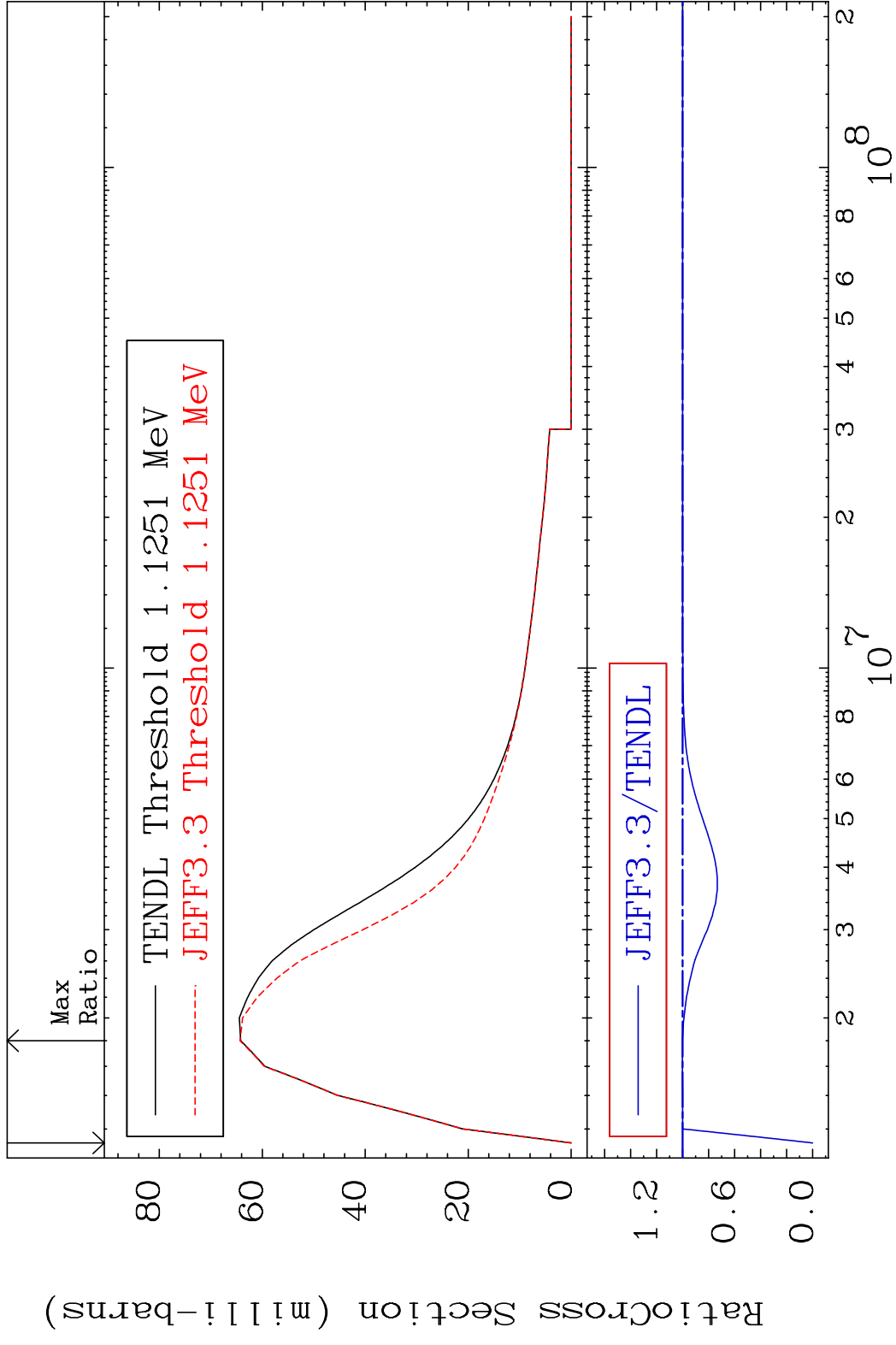


25 31-Ga-71

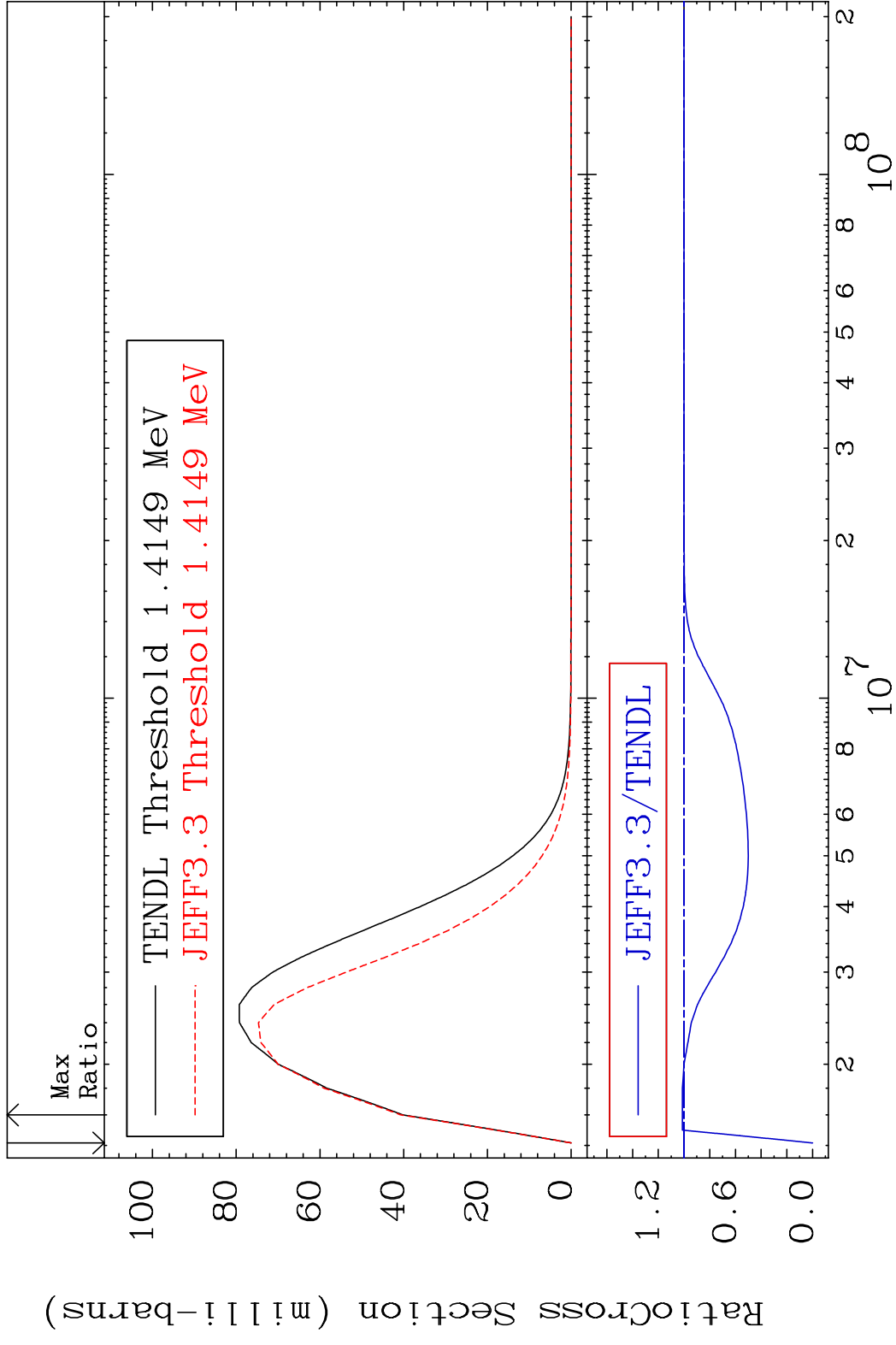
MAT 3131 MT= 57 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 0.729 %



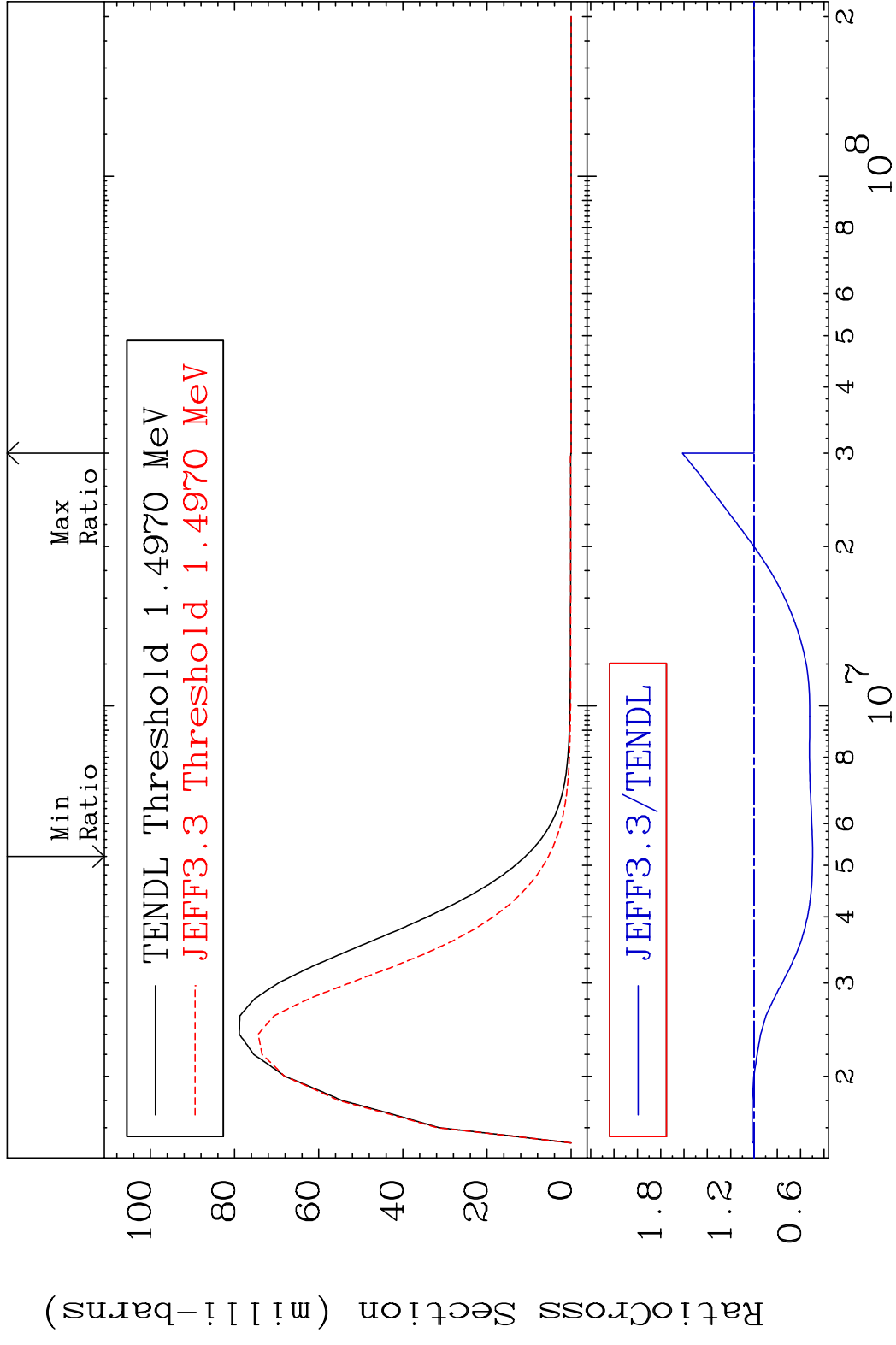
MAT 3131 MT= 58 (n,n') Level 31-Ga-71
 Cross Section -100.0 To 0.197 %



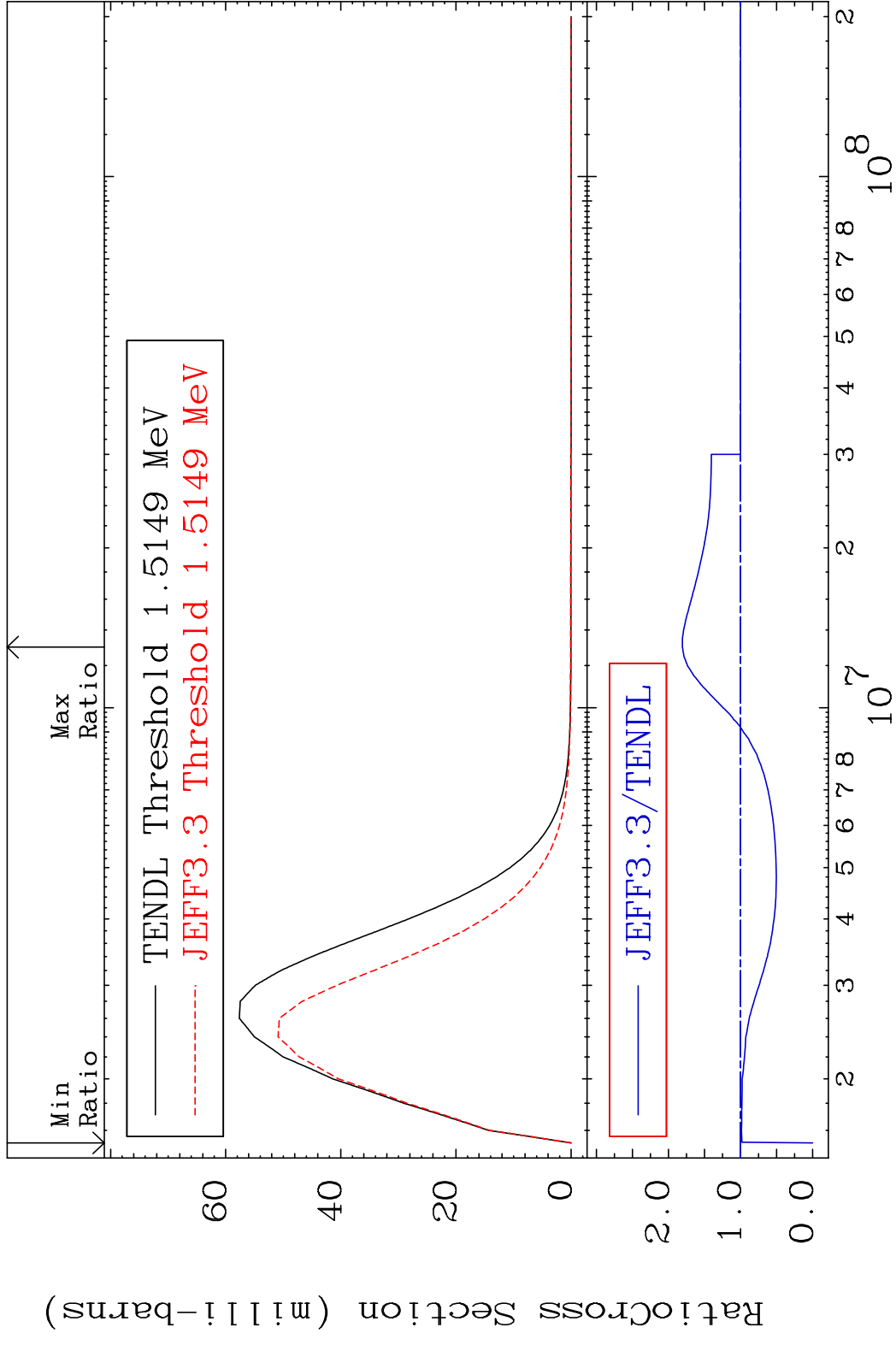
MAT 3131 MT= 59 (n,n') Level 31-Ga-71
 Cross Section -100.0 To 1.281 %



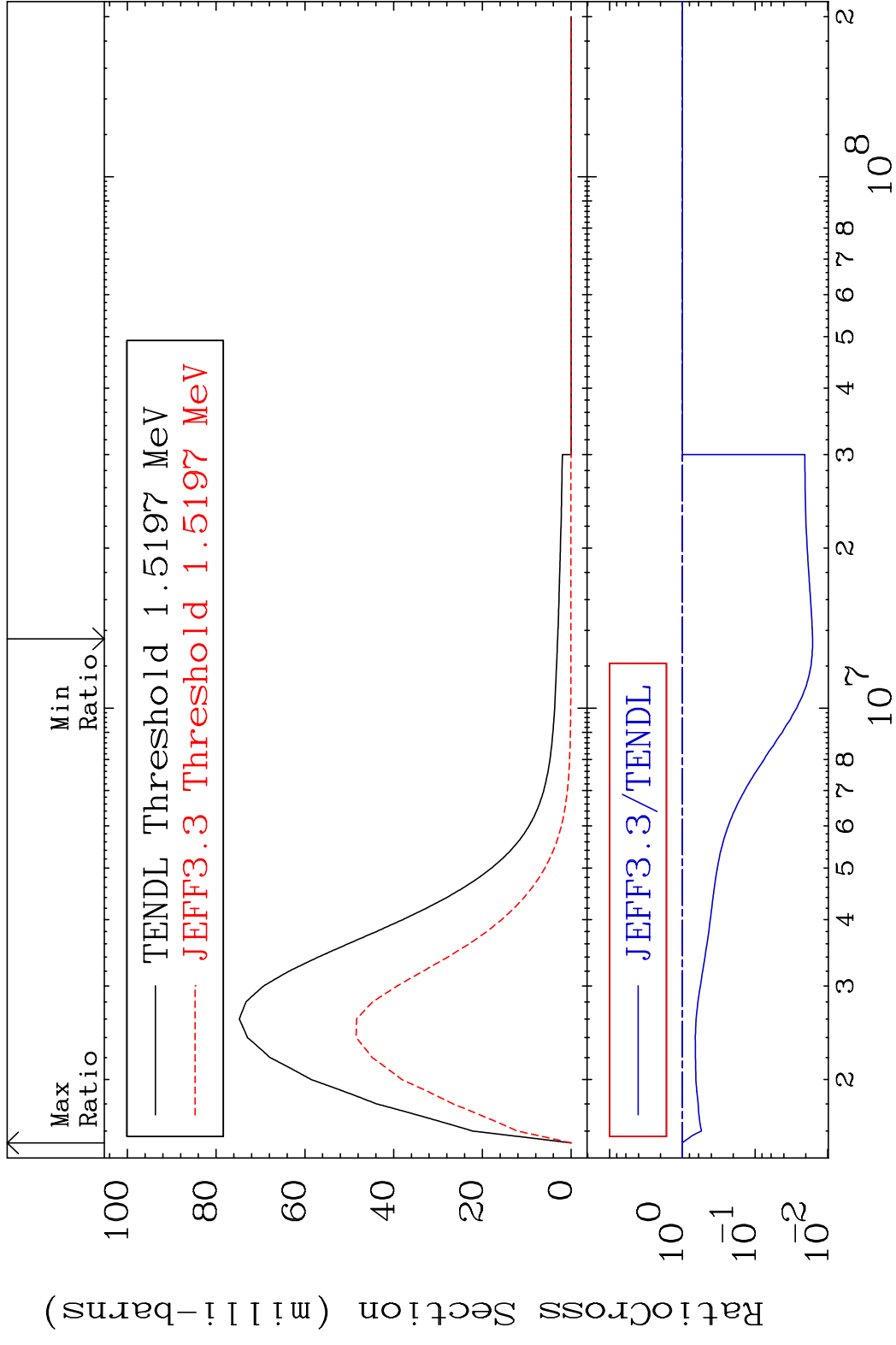
MAT 3131 MT= 60 (n, n') Level 31-Ga-71
 Cross Section -50.24 To 61.42 %



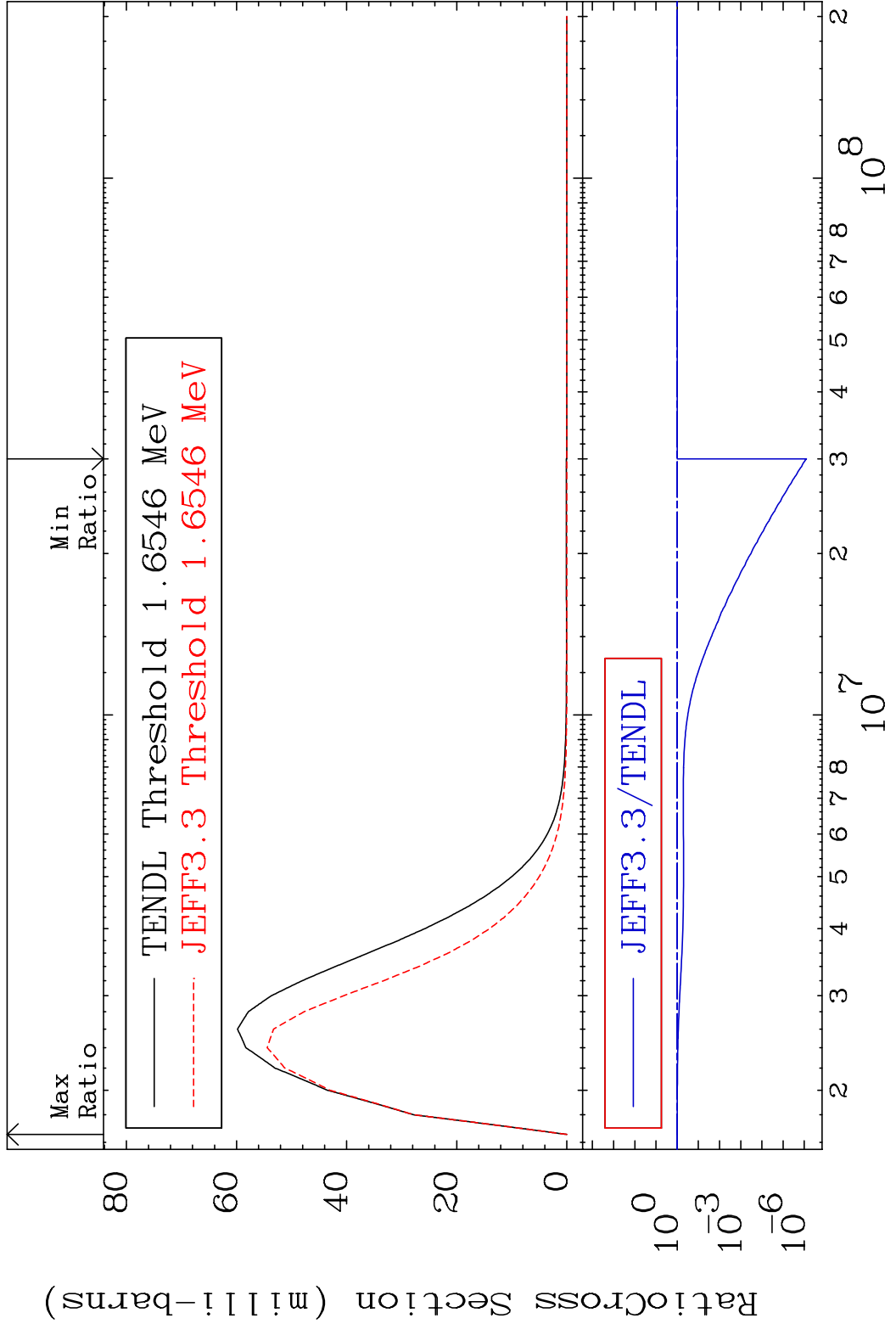
MAT 3131 MT= 61 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 80.69 %



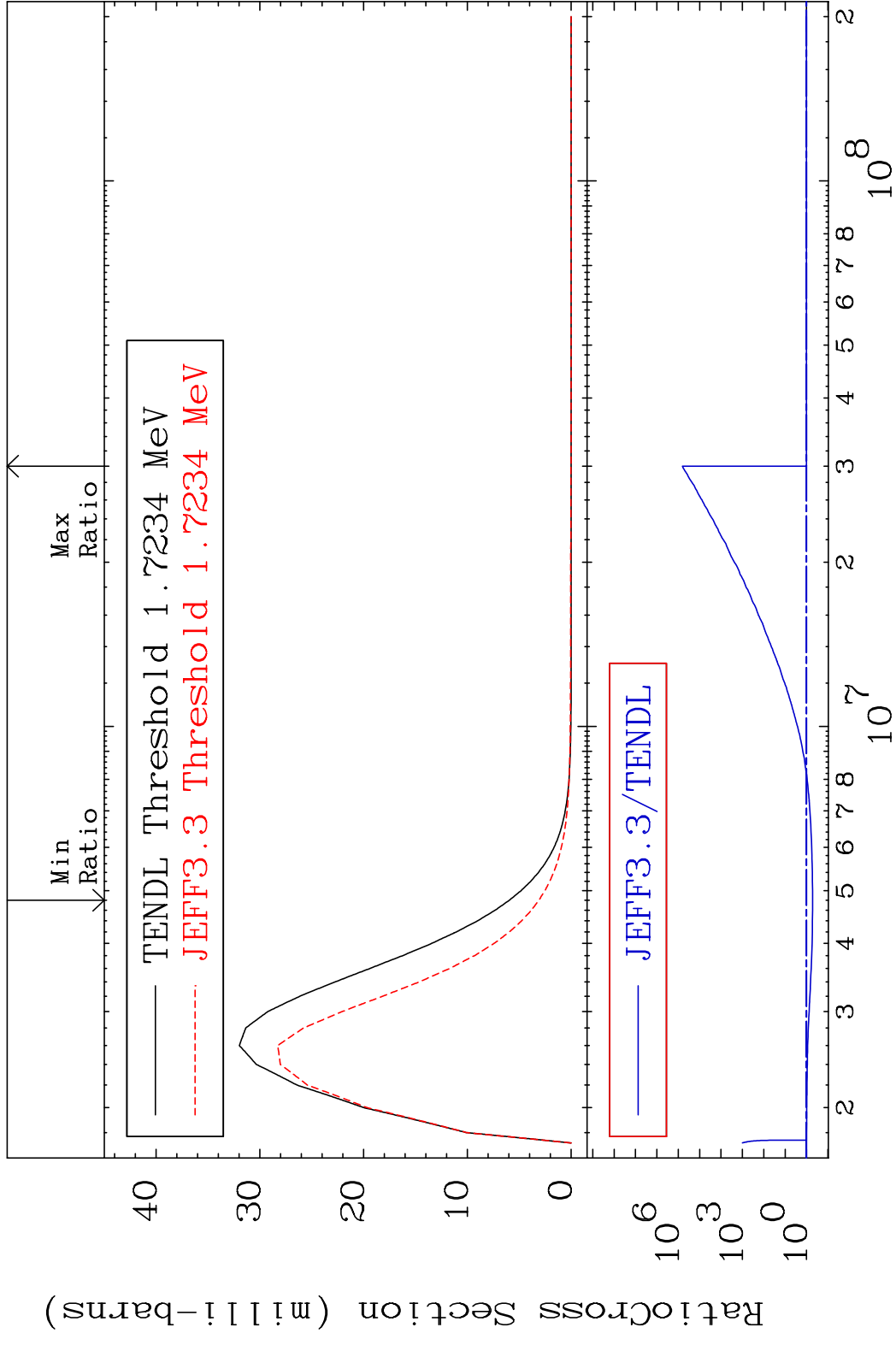
MAT 3131 MT= 62 (n,n') Level 31-Ga-71
 Cross Section -98.38 To 0.000 %



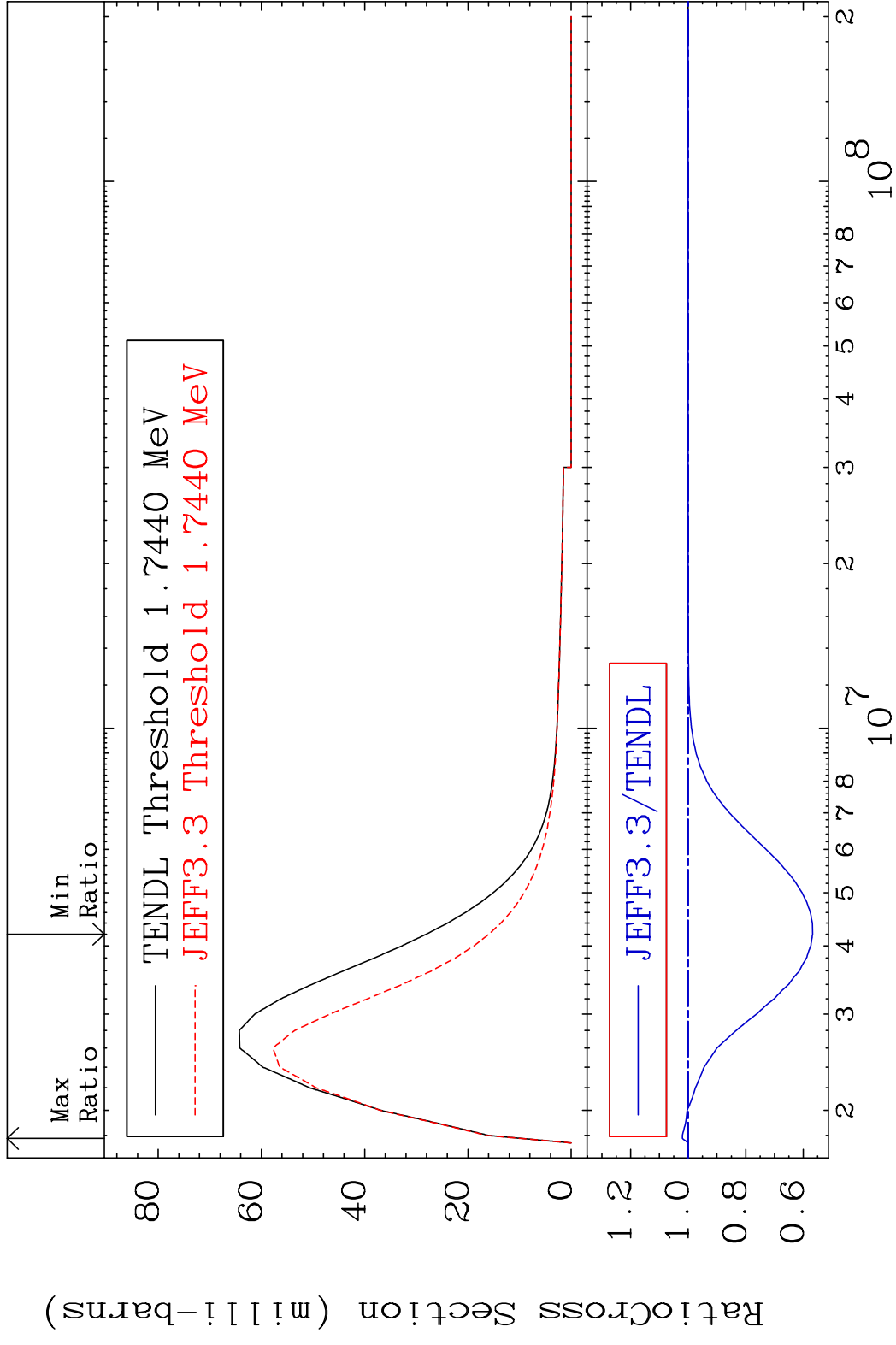
MAT 3131 MT= 63 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 0.000 %



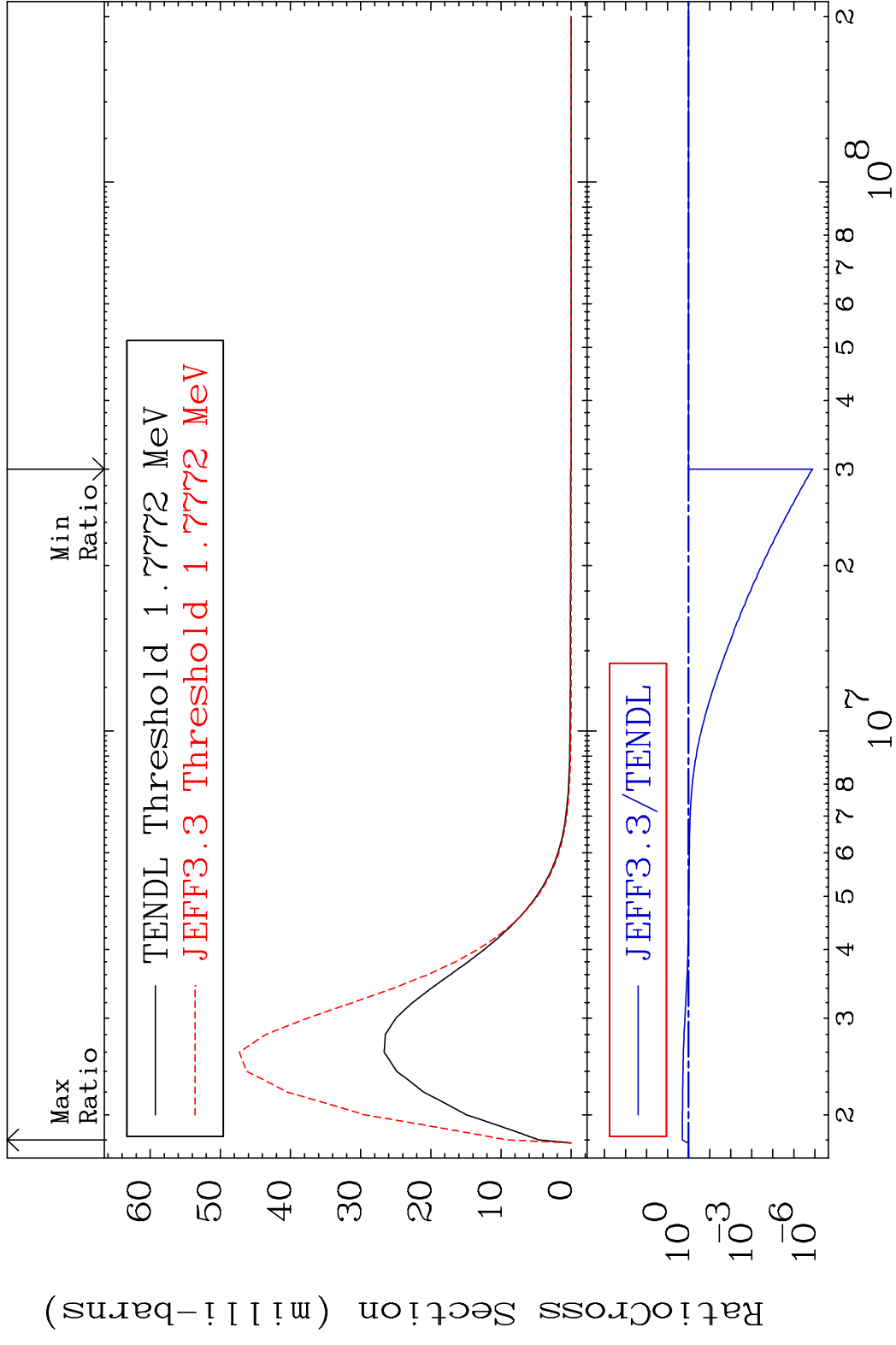
MAT 3131 MT= 64 (n, n') Level 31-Ga-71
 Cross Section -47.79 To 9999. %



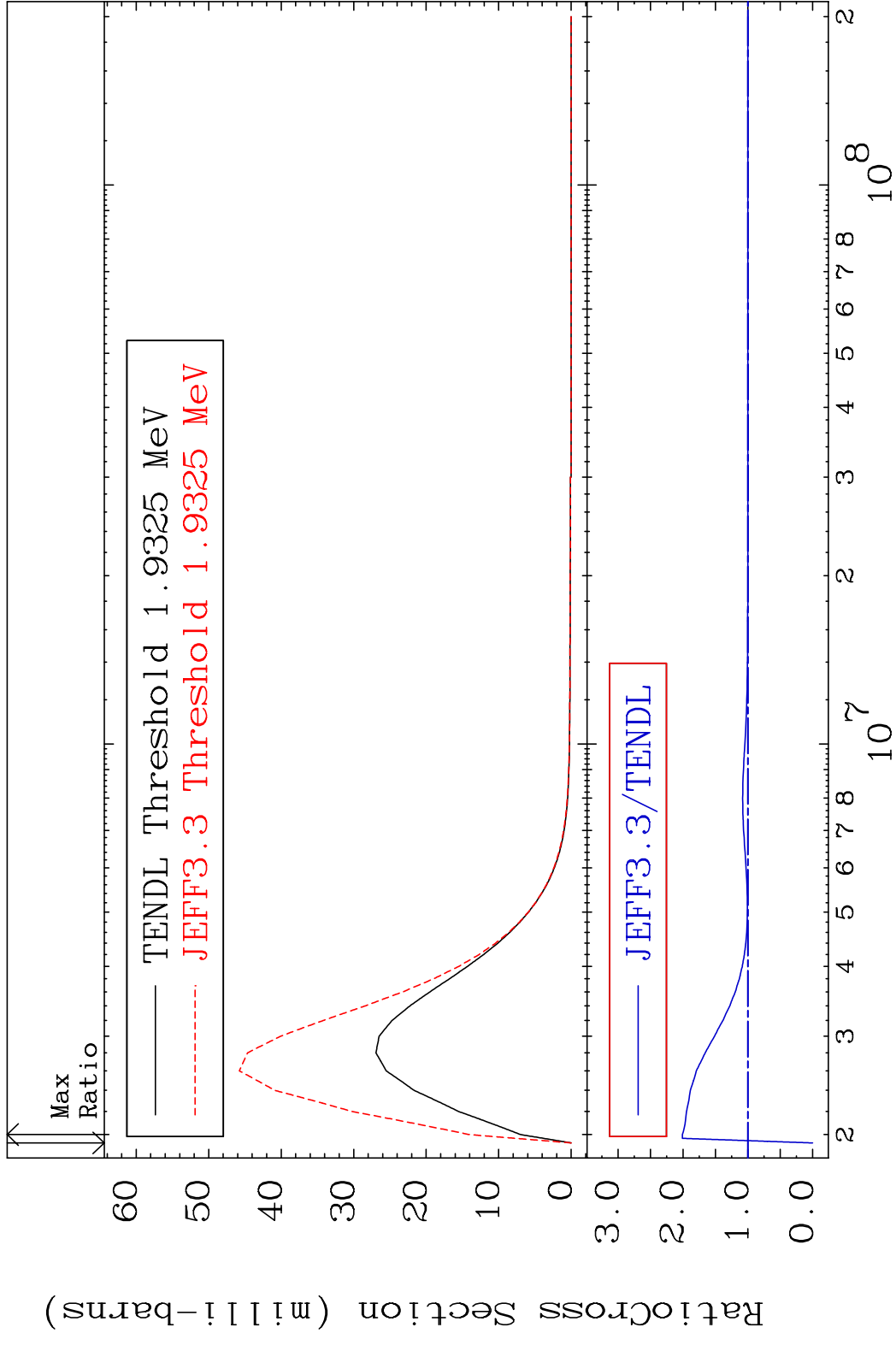
MAT 3131 MT= 65 (n,n') Level 31-Ga-71
 Cross Section -43.23 To 2.019 %



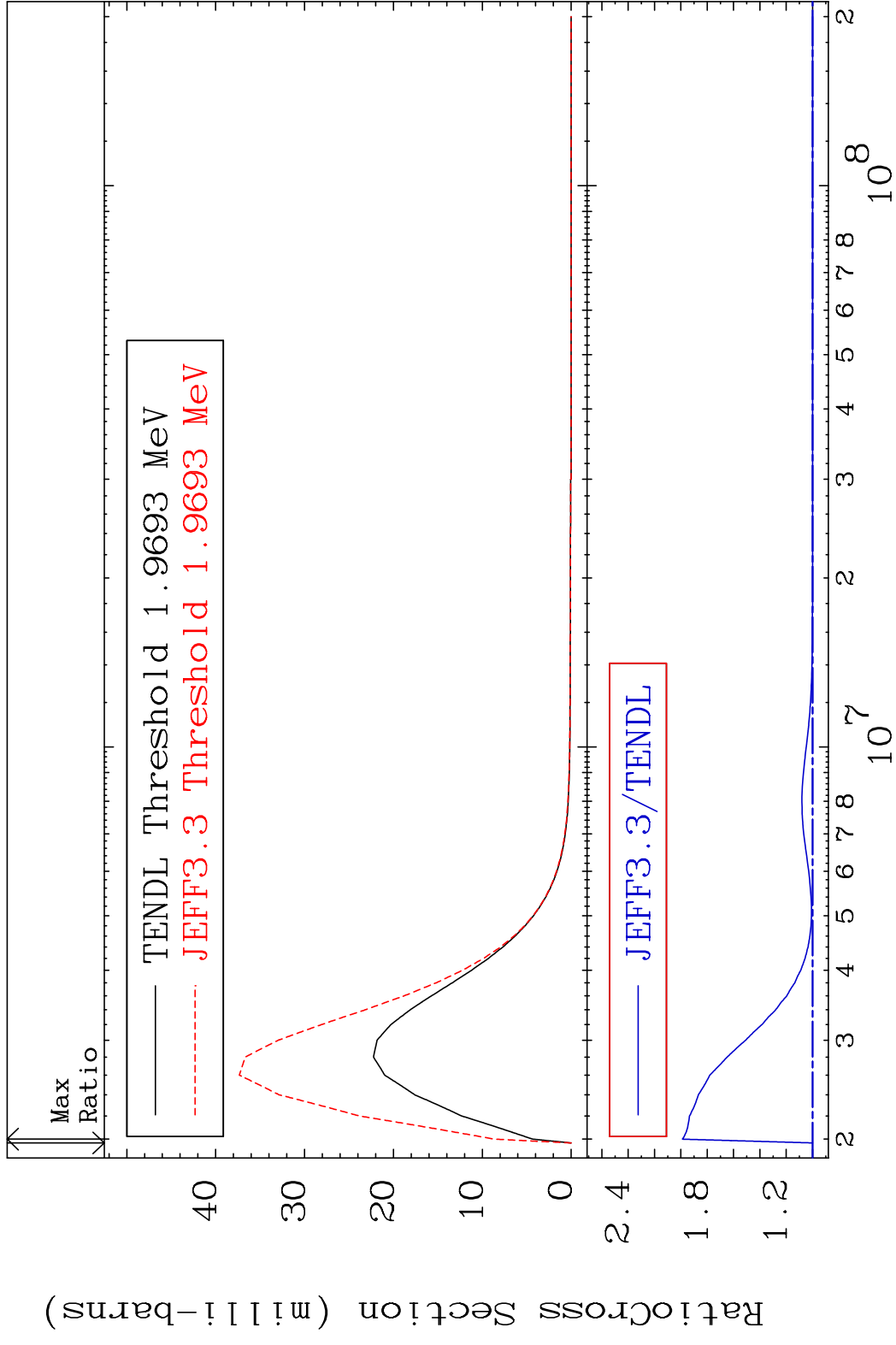
MAT 3131 MT= 66 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 98.88 %



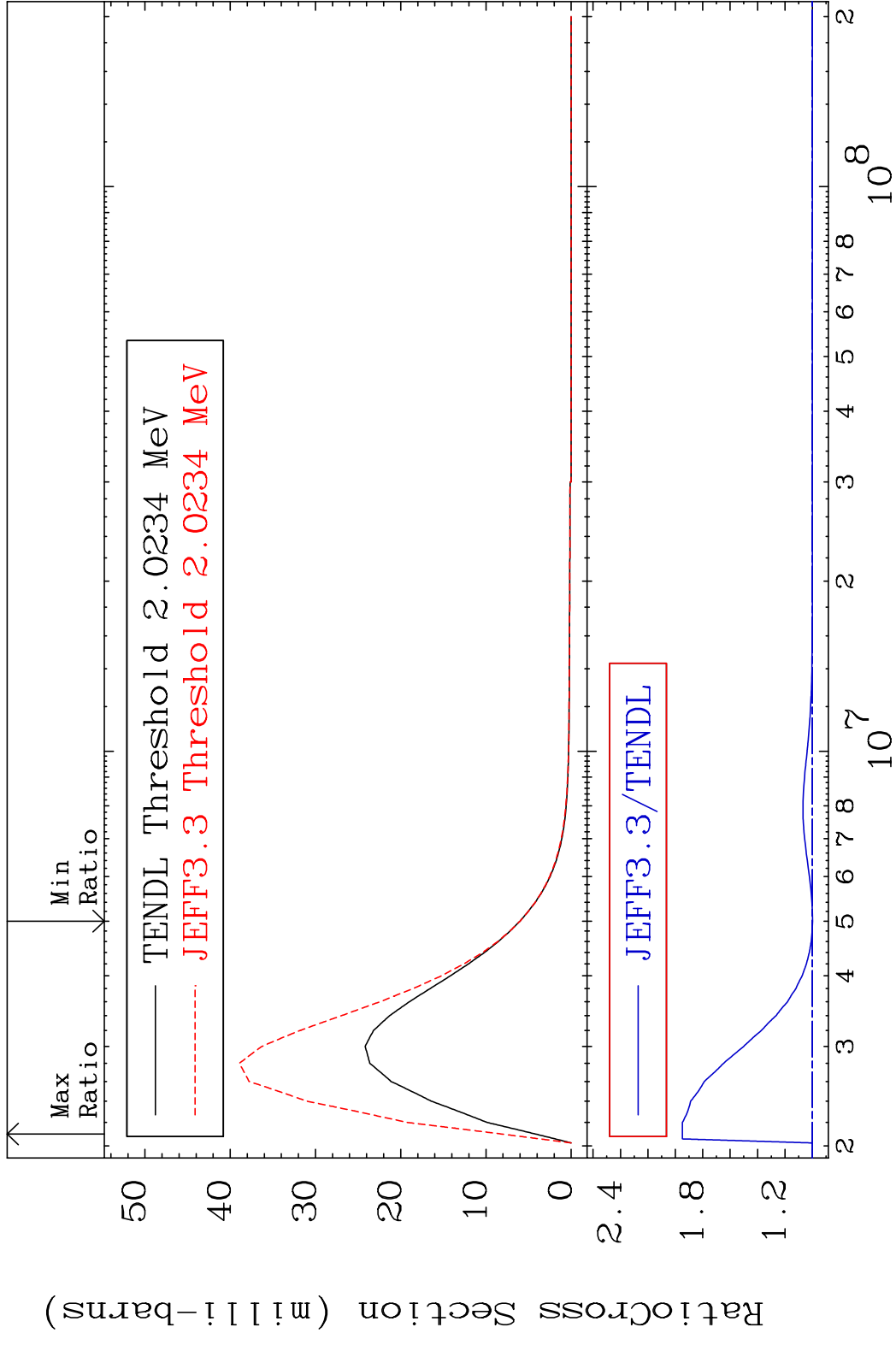
MAT 3131 MT= 67 (n,n') Level 31-Ga-71
 Cross Section -100.0 To 100.9 %



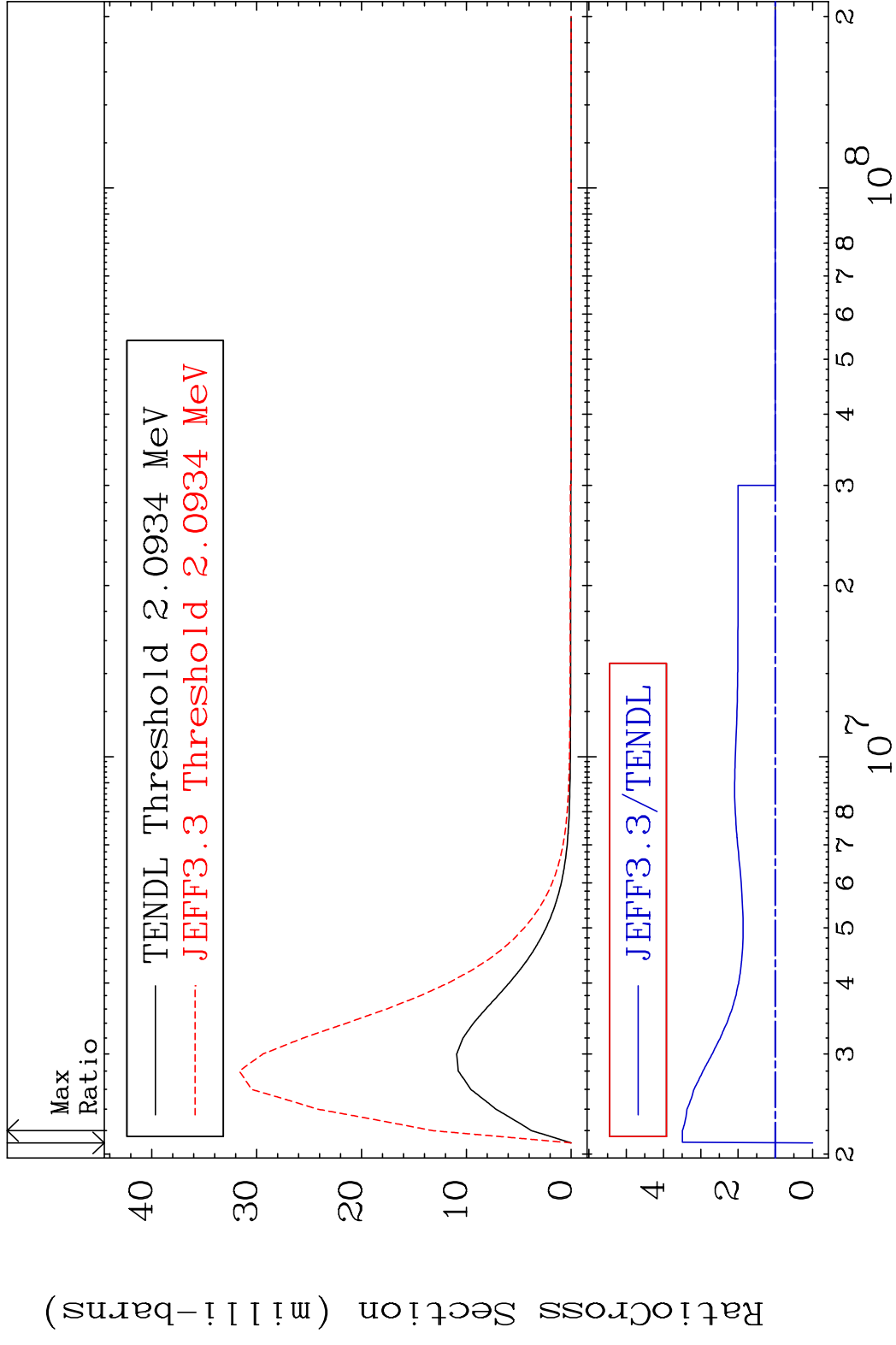
MAT 3131 MT= 68 (n,n') Level 31-Ga-71
 Cross Section 0.000 To 98.87 %



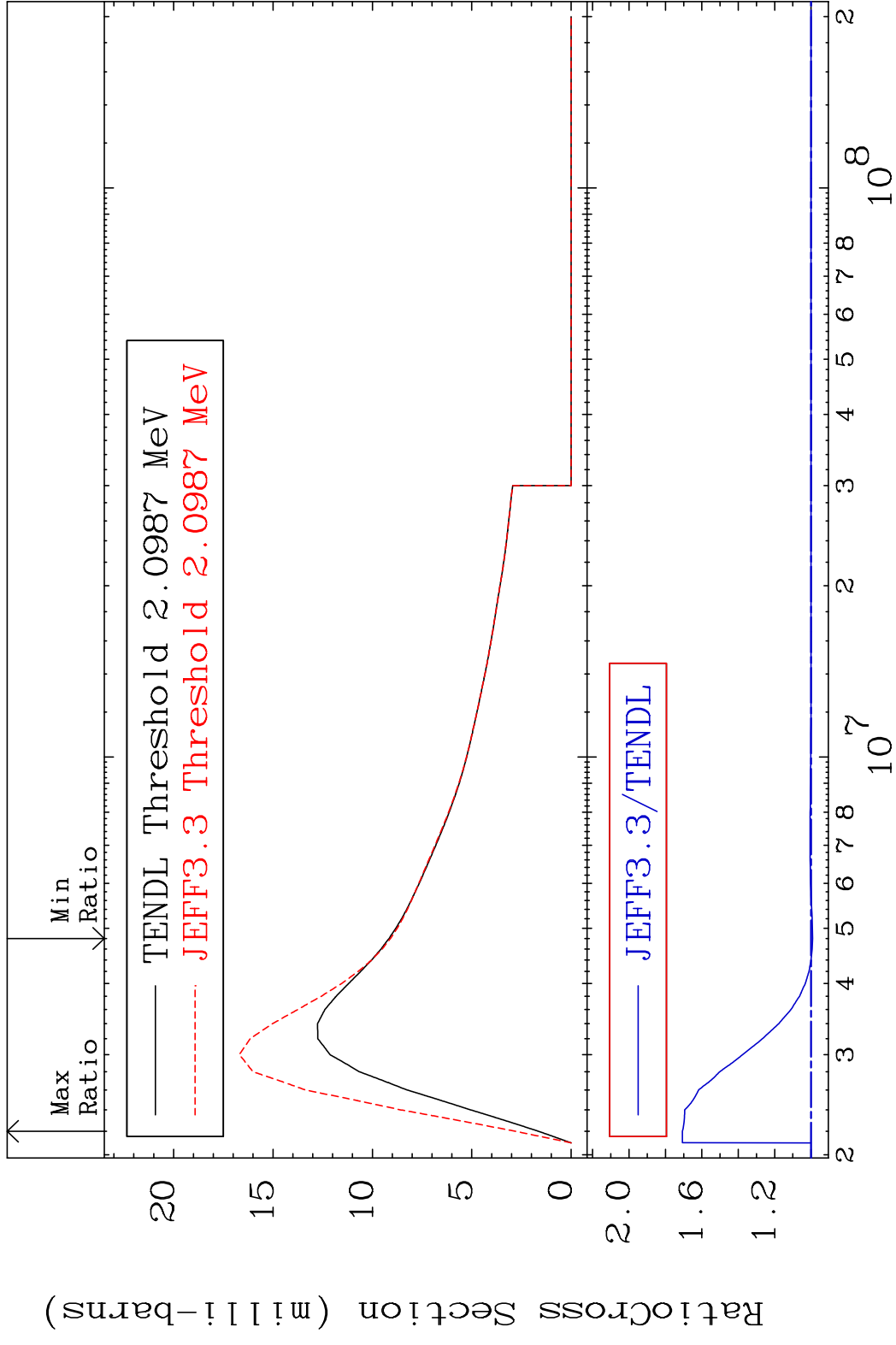
MAT 3131 MT= 69 (n, n') Level 31-Ga-71
 Cross Section -0.142 To 94.86 %



MAT 3131 MT= 70 (n,n') Level 31-Ga-71
 Cross Section -100.0 To 249.4 %

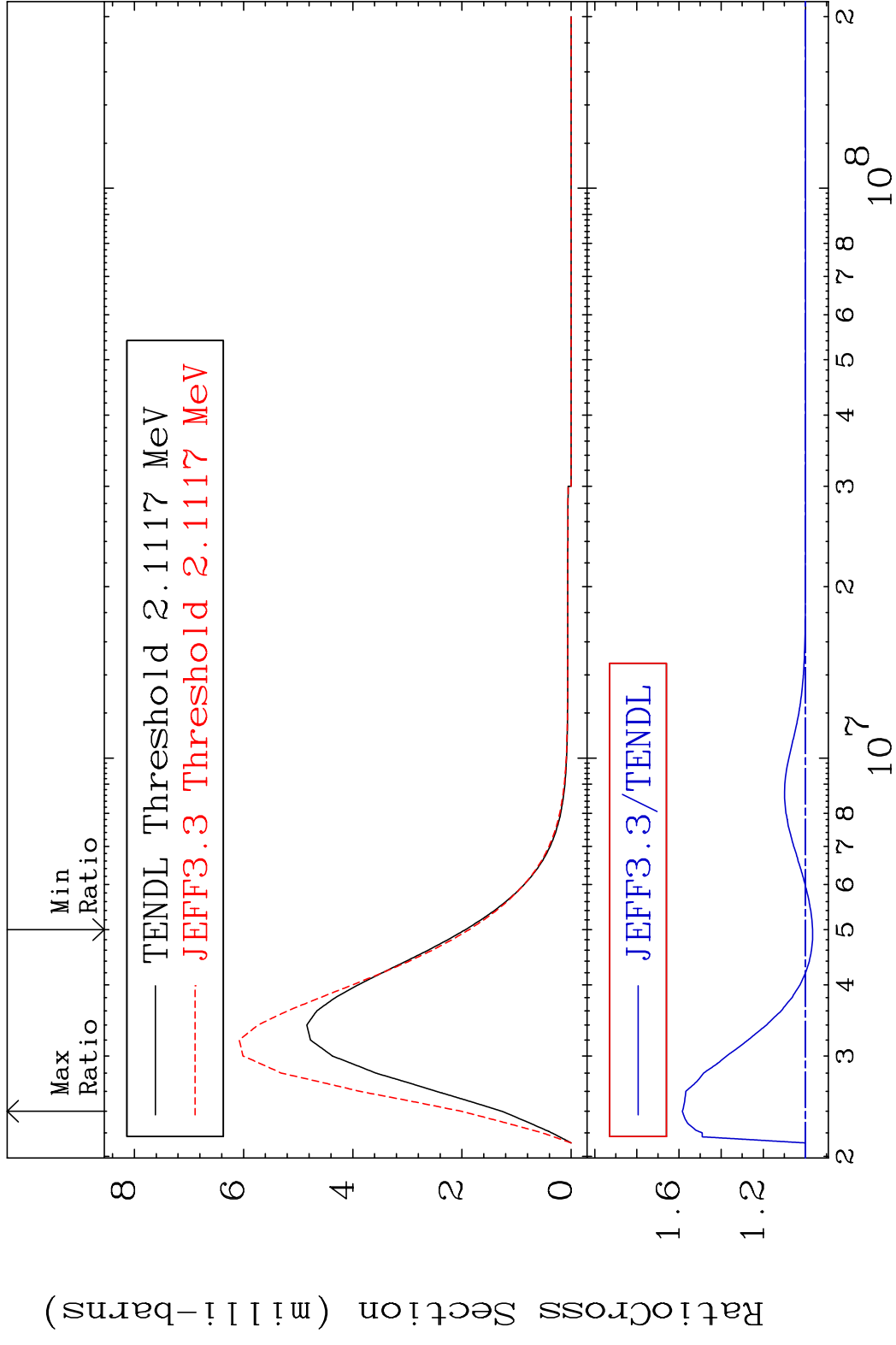


MAT 3131 MT= 71 (n, n') Level 31-Ga-71
 Cross Section -0.818 To 70.71 %

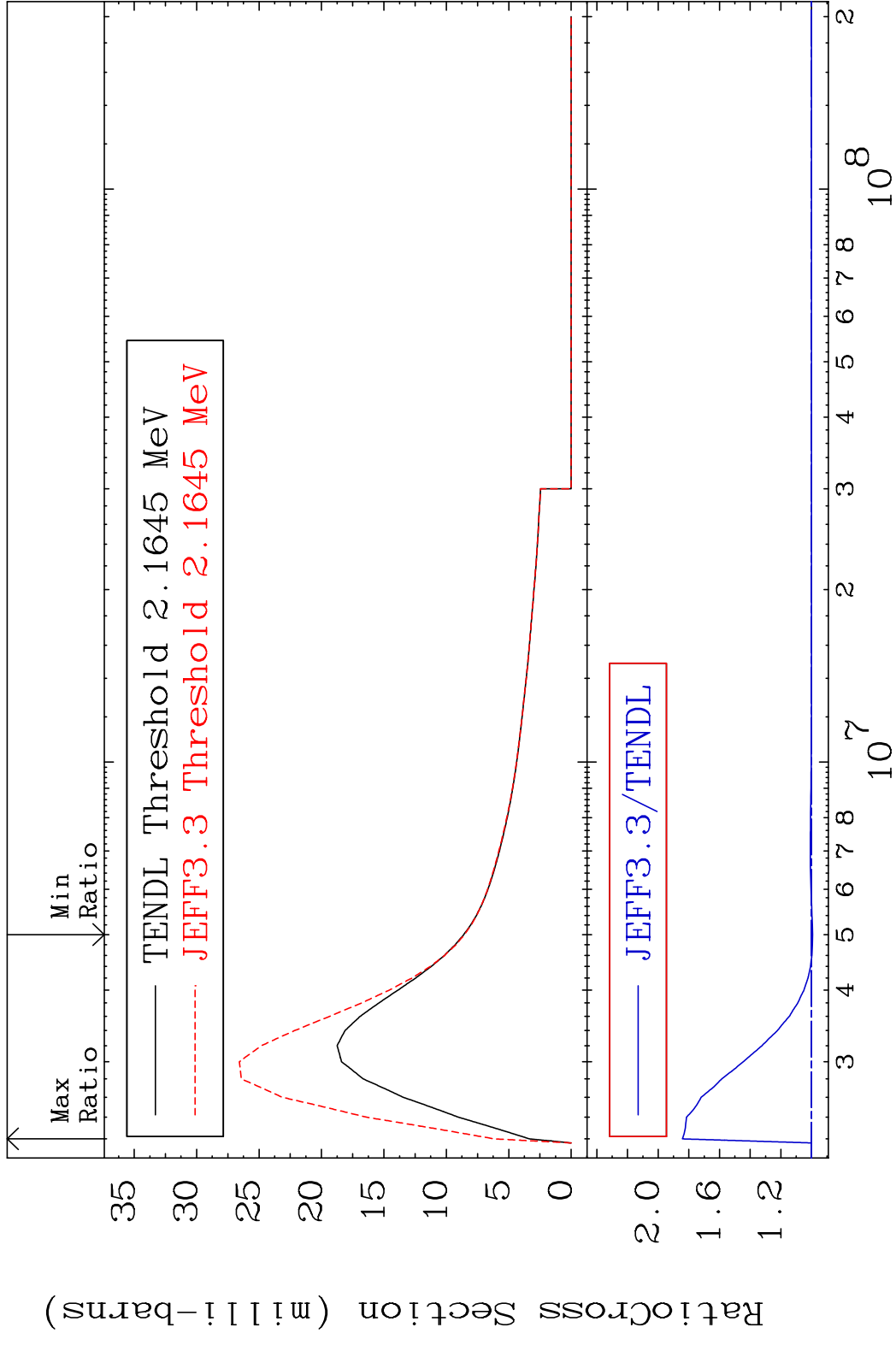


40 Incident Energy (eV) 31-Ga-71

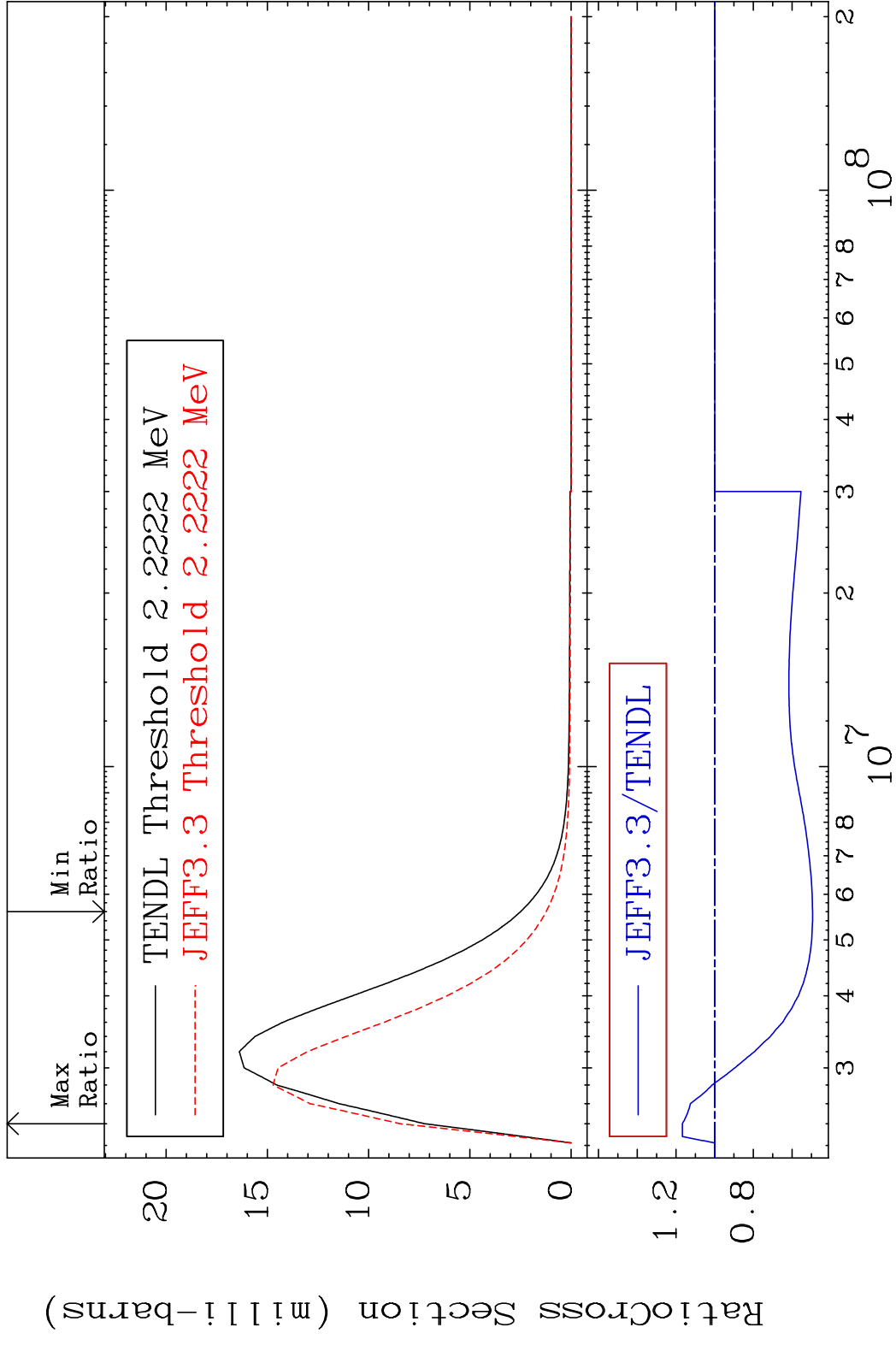
MAT 3131 MT= 72 (n, n') Level 31-Ga-71
 Cross Section -3.378 To 58.41 %



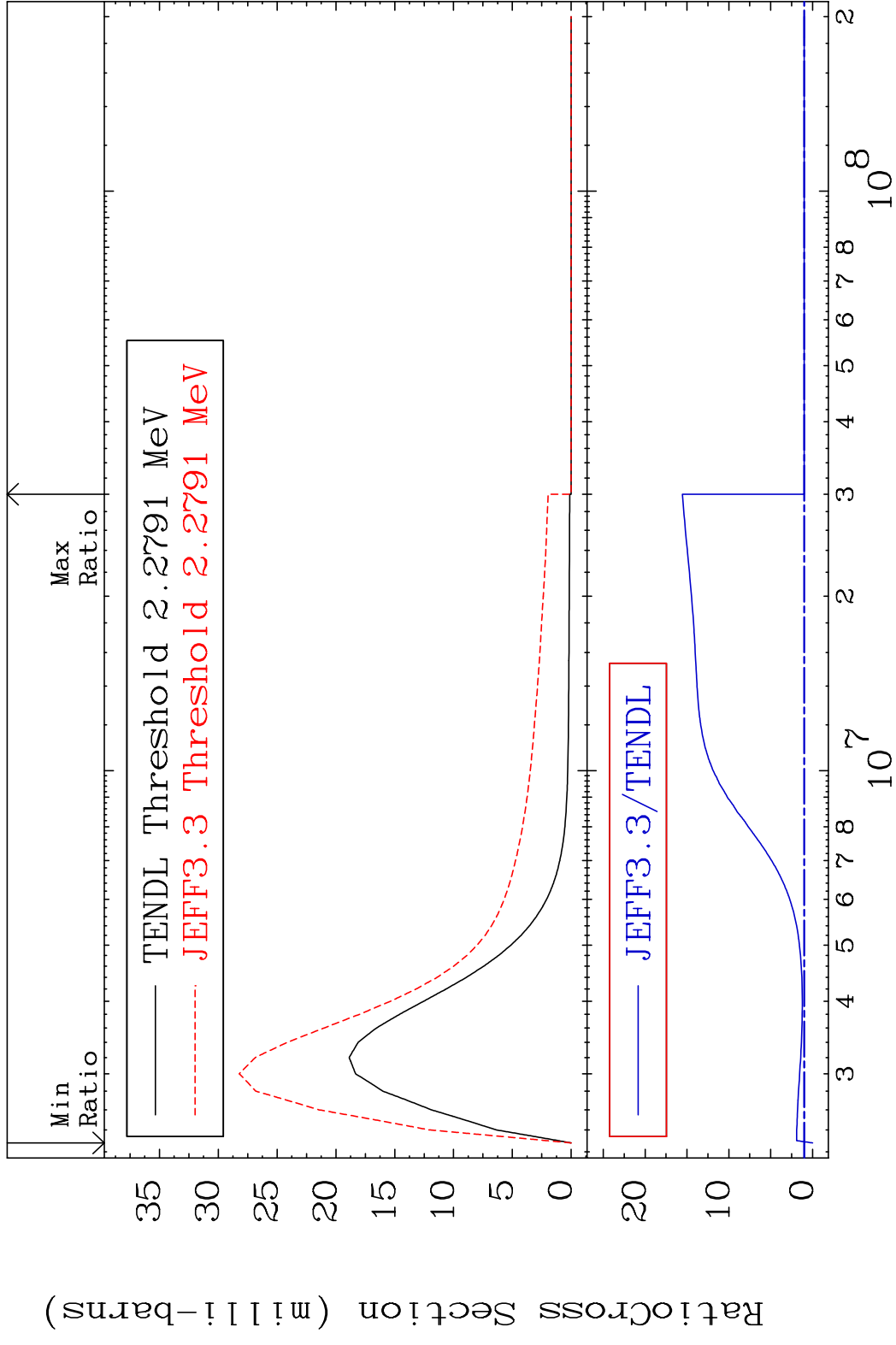
MAT 3131 MT= 73 (n, n') Level 31-Ga-71
 Cross Section -0.648 To 84.25 %



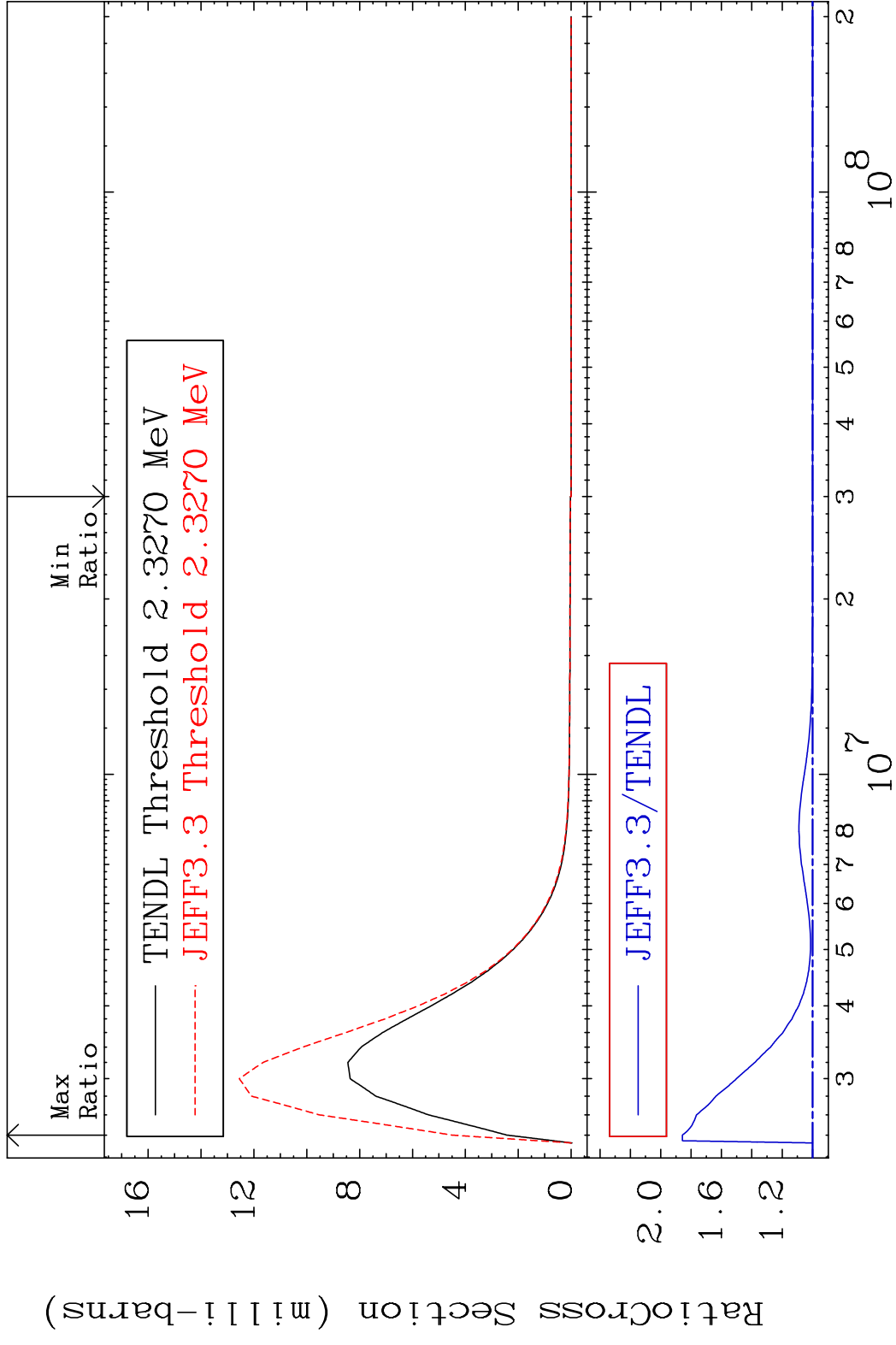
MAT 3131 MT= 74 (n,n') Level 31-Ga-71
 Cross Section -50.57 To 16.69 %



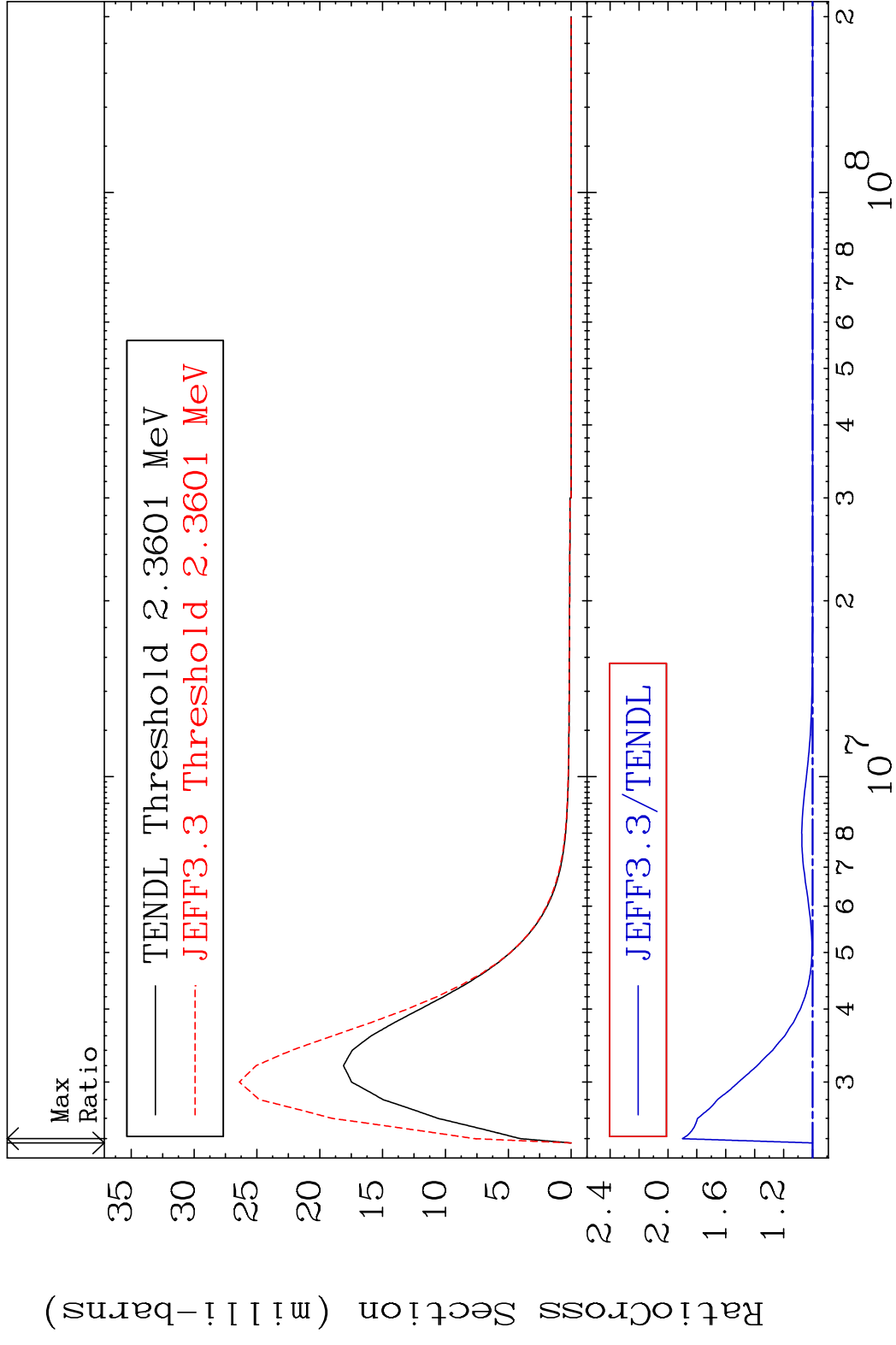
MAT 3131 MT= 75 (n, n') Level 31-Ga-71
 Cross Section -100.0 To 1455. %



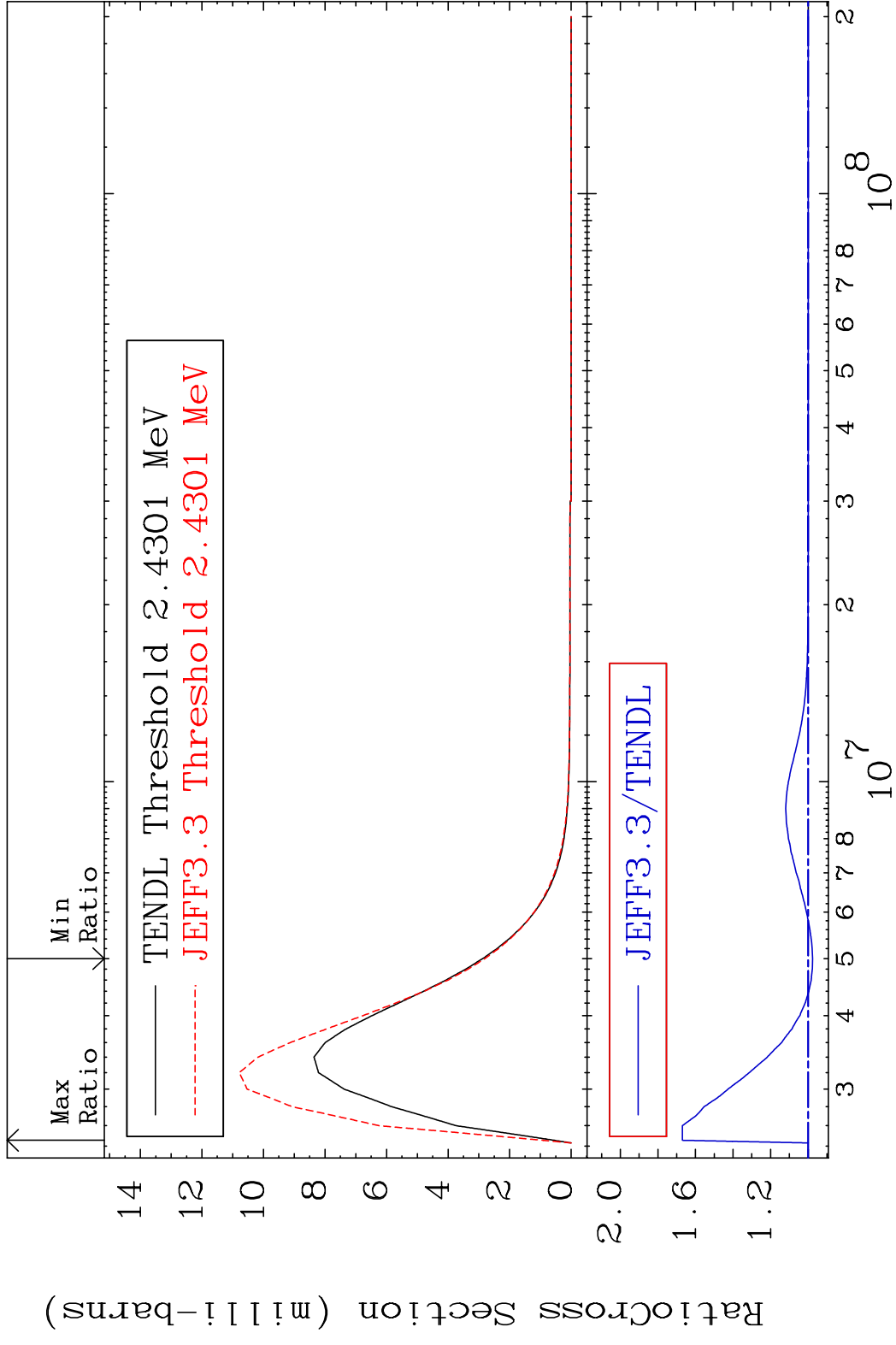
MAT 3131 MT= 76 (n, n') Level 31-Ga-71
 Cross Section 0.000 To 85.75 %



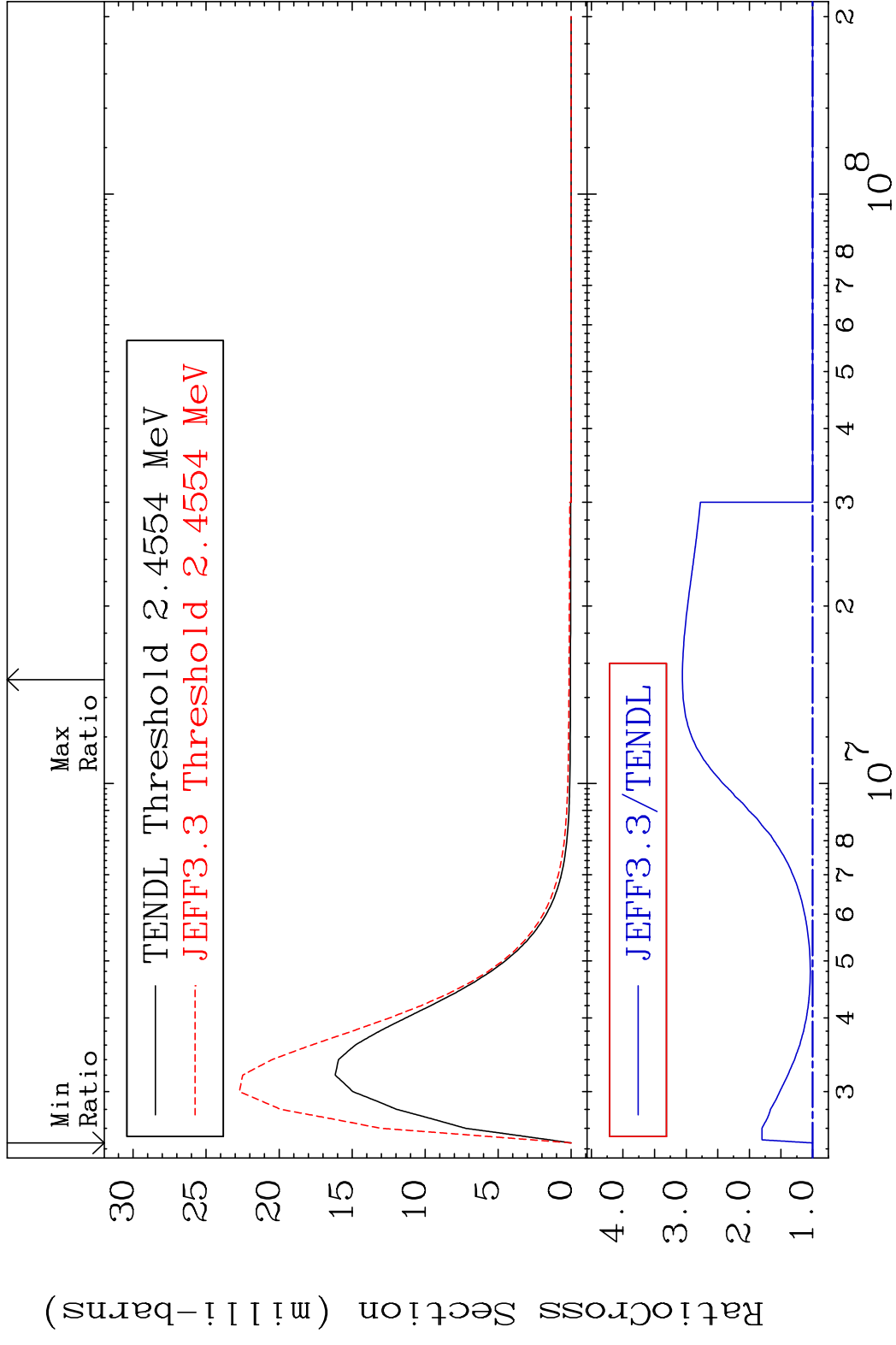
MAT 3131 MT= 77 (n,n') Level 31-Ga-71
 Cross Section 0.000 To 90.02 %



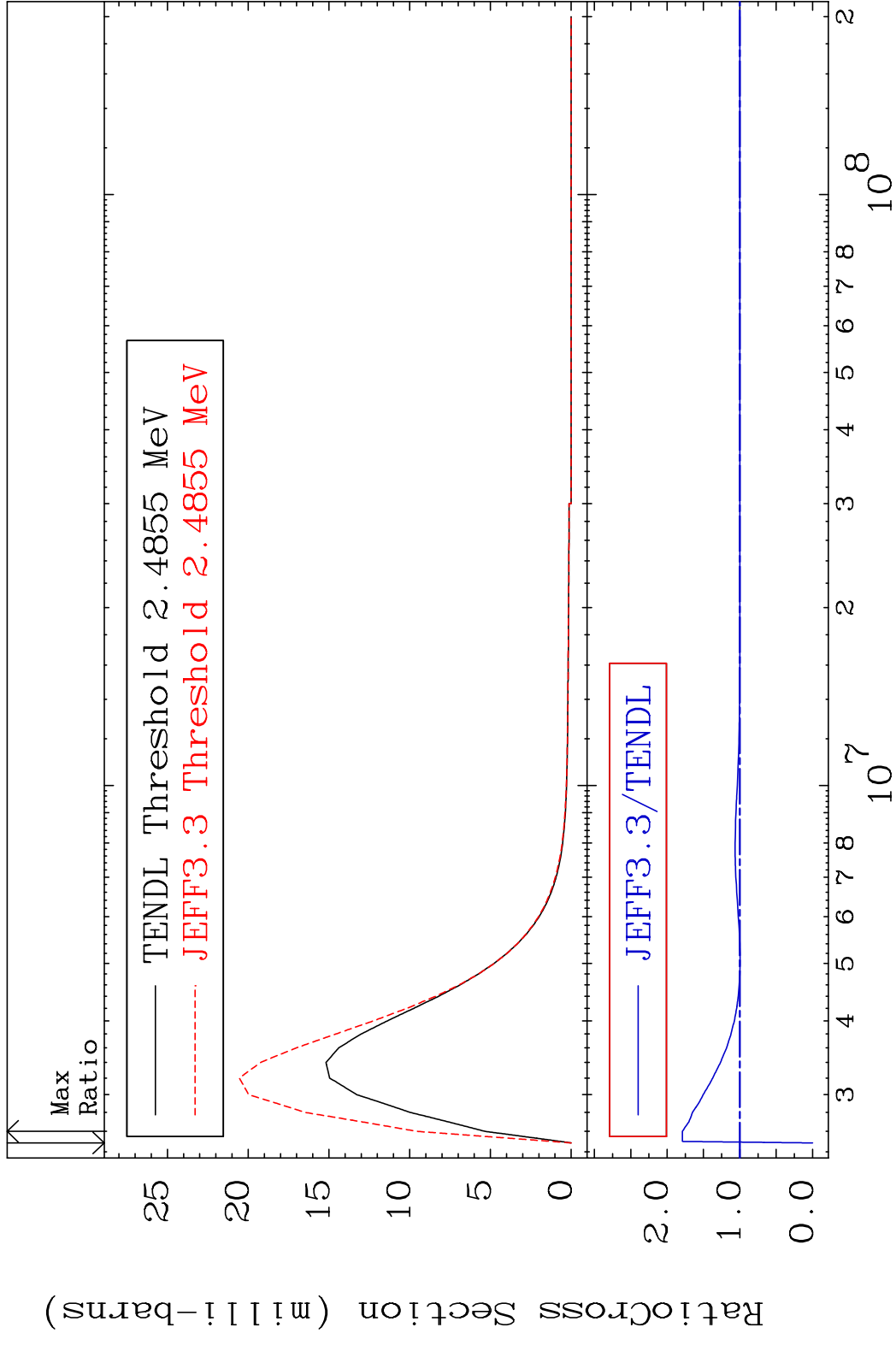
MAT 3131 MT= 78 (n, n') Level 31-Ga-71
 Cross Section -2.336 To 66.99 %



MAT 3131 MT= 79 (n, n') Level 31-Ga-71
 Cross Section 0.000 To 206.0 %



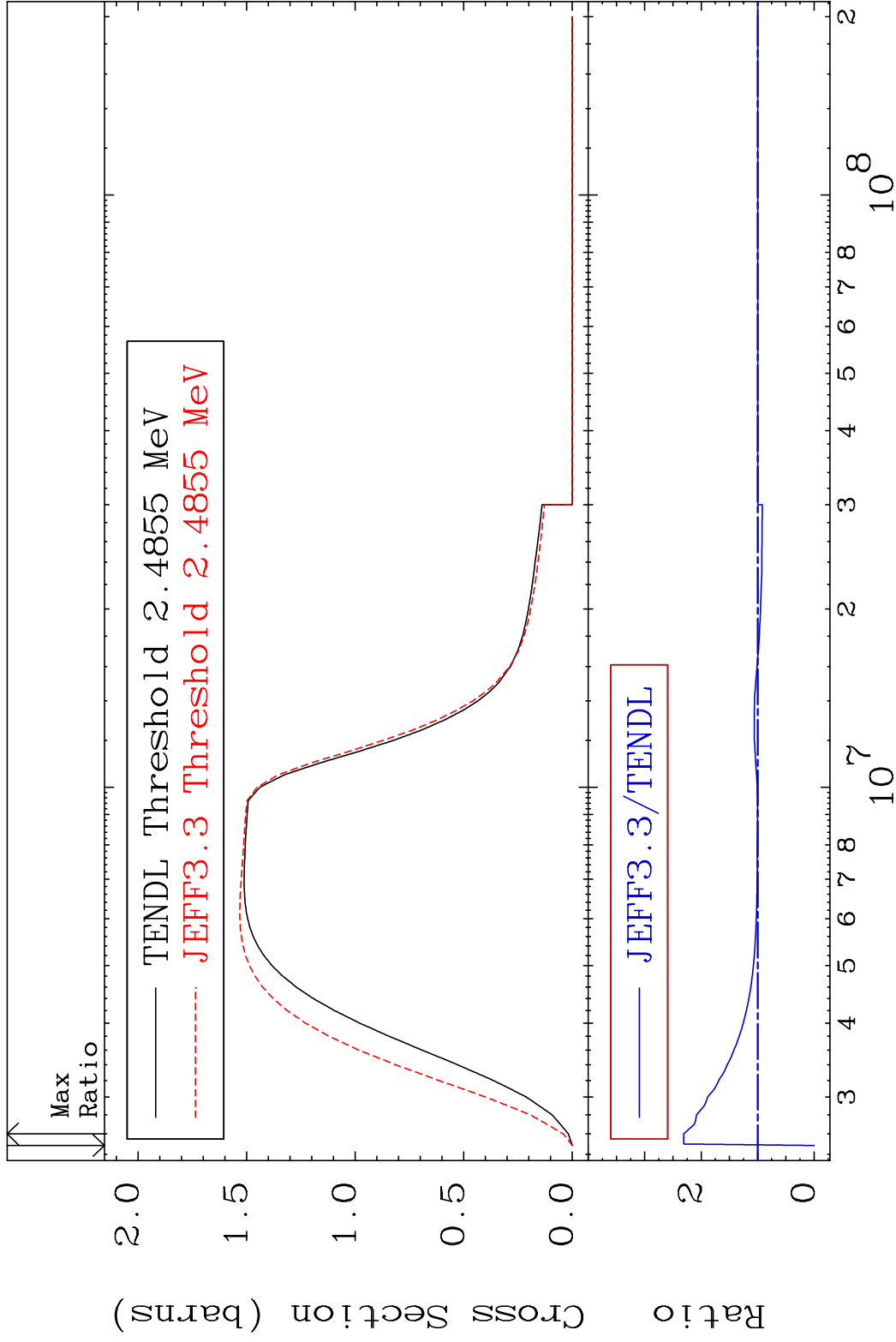
MAT 3131 MT= 80 (n,n') Level 31-Ga-71
 Cross Section -100.0 To 79.05 %



MAT 3131

(n,n') Continuum 31-Ga-71

Cross Section -100.0 To 131.0 %



50

Incident Energy (eV)

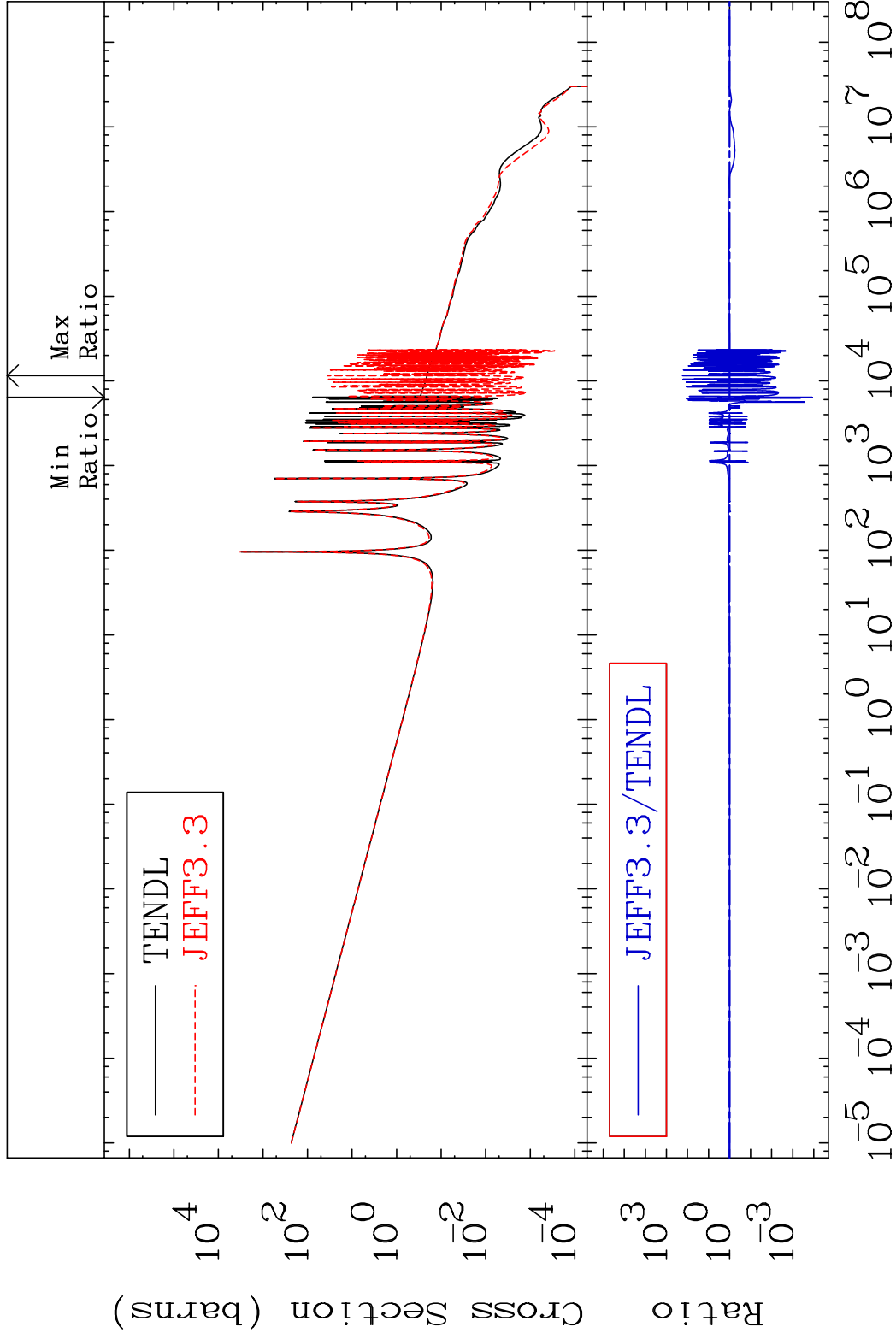
31-Ga-71

MAT 3131

(n, γ)

31-Ga-71

Cross Section -99.99 To 9999. %



51

Incident Energy (eV)

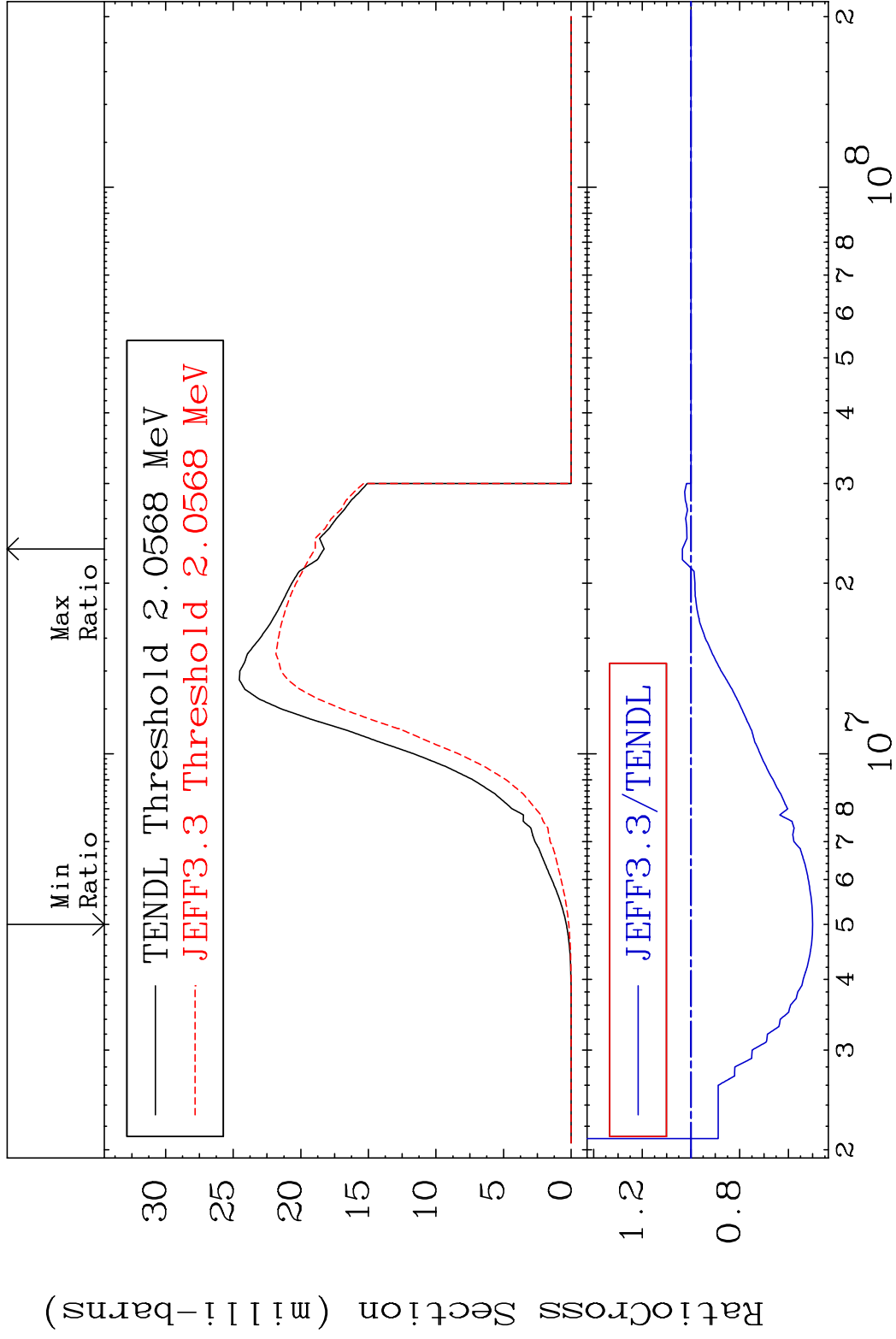
31-Ga-71

MAT 3131

(n, p)

31-Ga-71

Cross Section -49.94 To 3.551 %



52

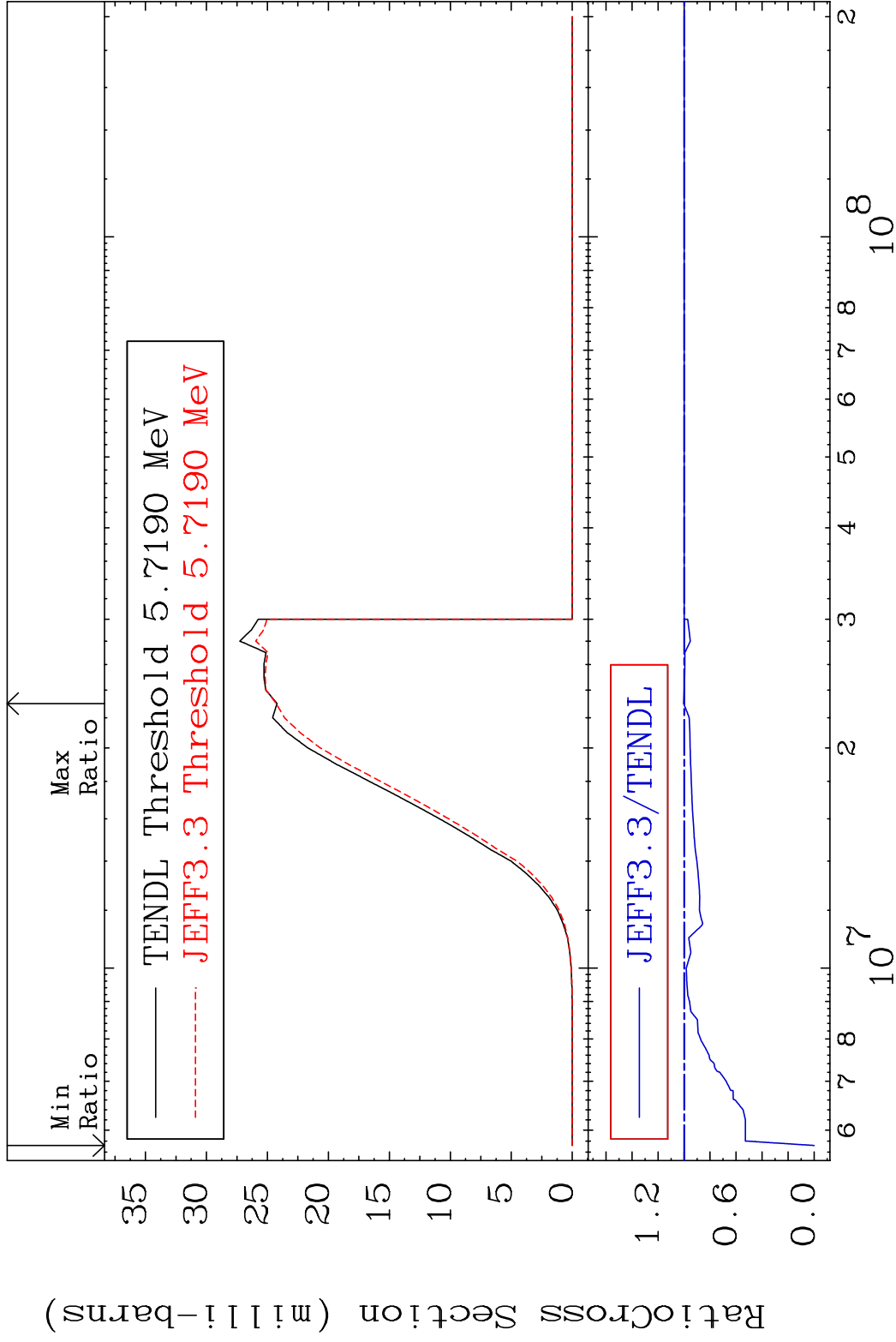
Incident Energy (eV)

31-Ga-71

MAT 3131

(n, d) 31-Ga-71

Cross Section -100.0 To 0.306 %



53

Incident Energy (eV)

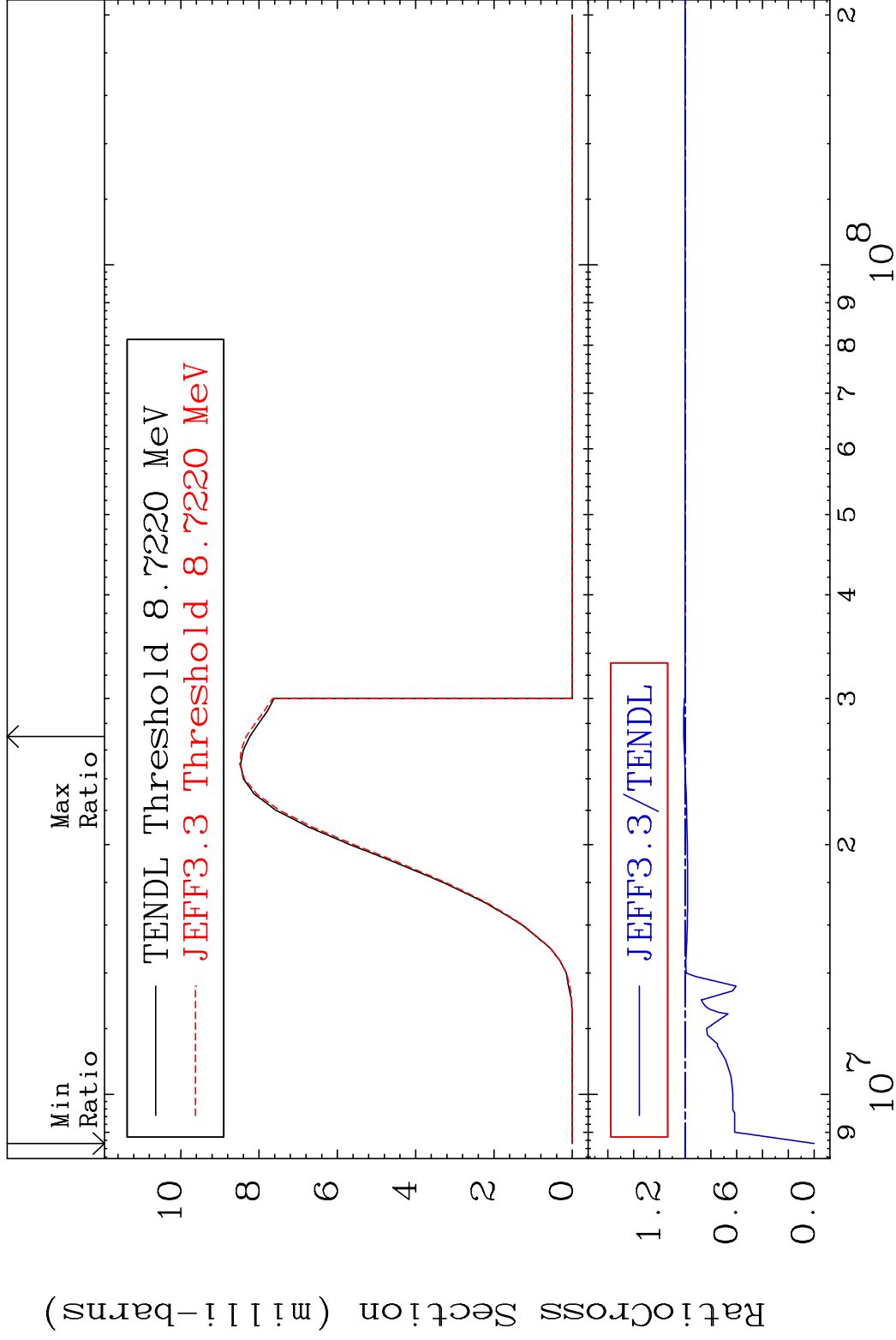
31-Ga-71

MAT 3131

(n, t)

31-Ga-71

Cross Section -100.0 To 1.158 %



54

Incident Energy (eV)

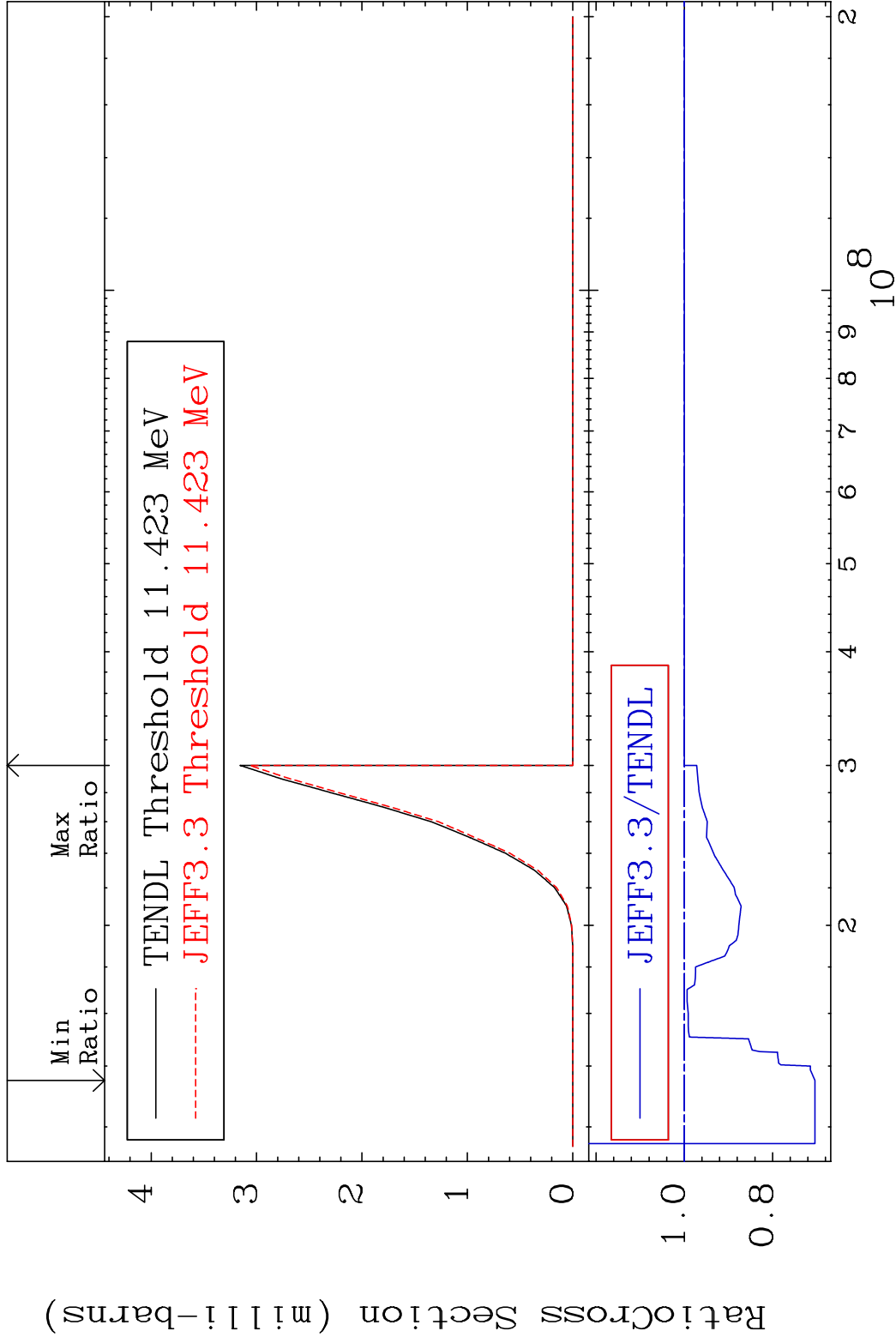
31-Ga-71

MAT 3131

(n, He-3)

31-Ga-71

Cross Section -29.59 To 0.000 %



55

Incident Energy (eV)

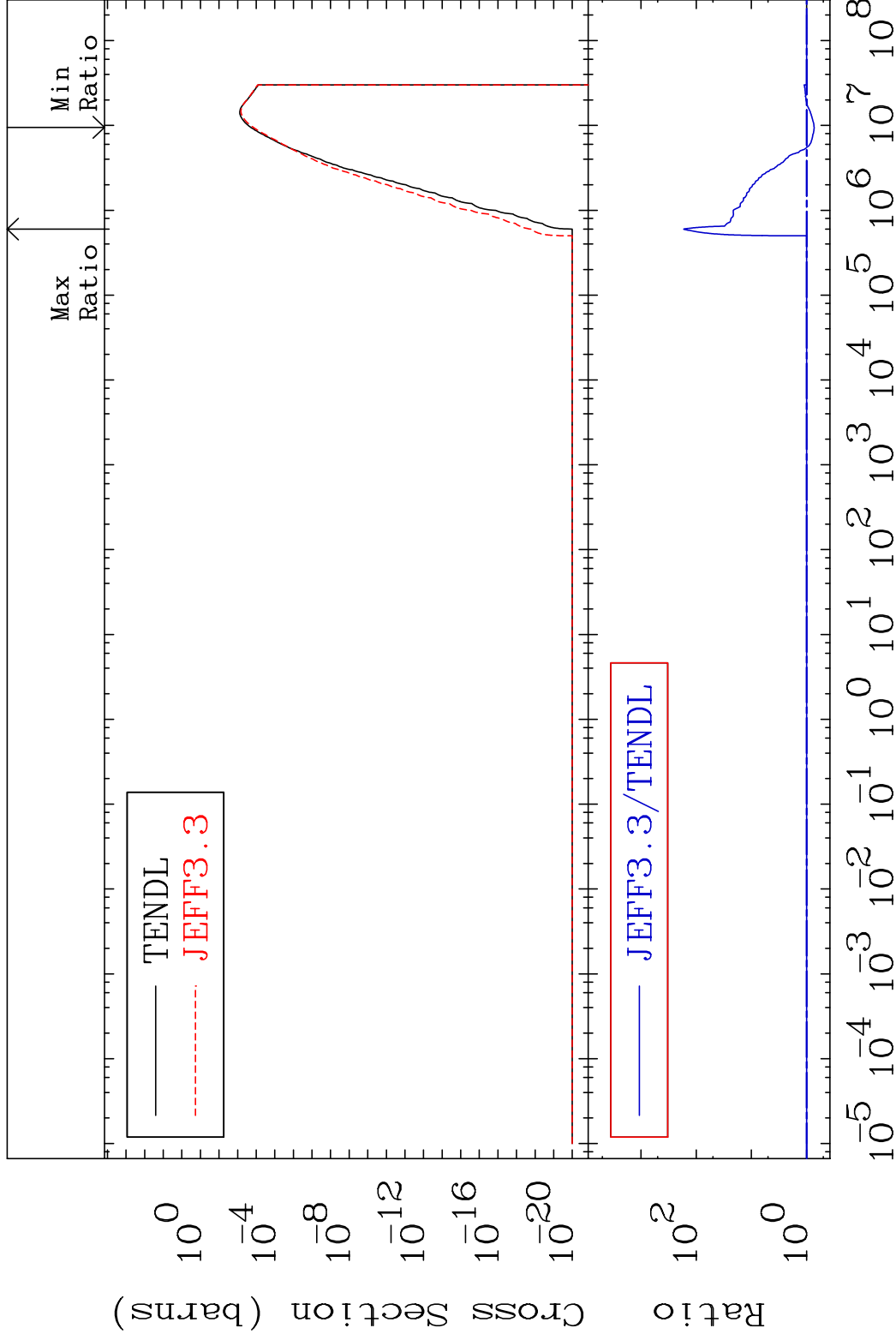
31-Ga-71

MAT 3131

(n, α)

31-Ga-71

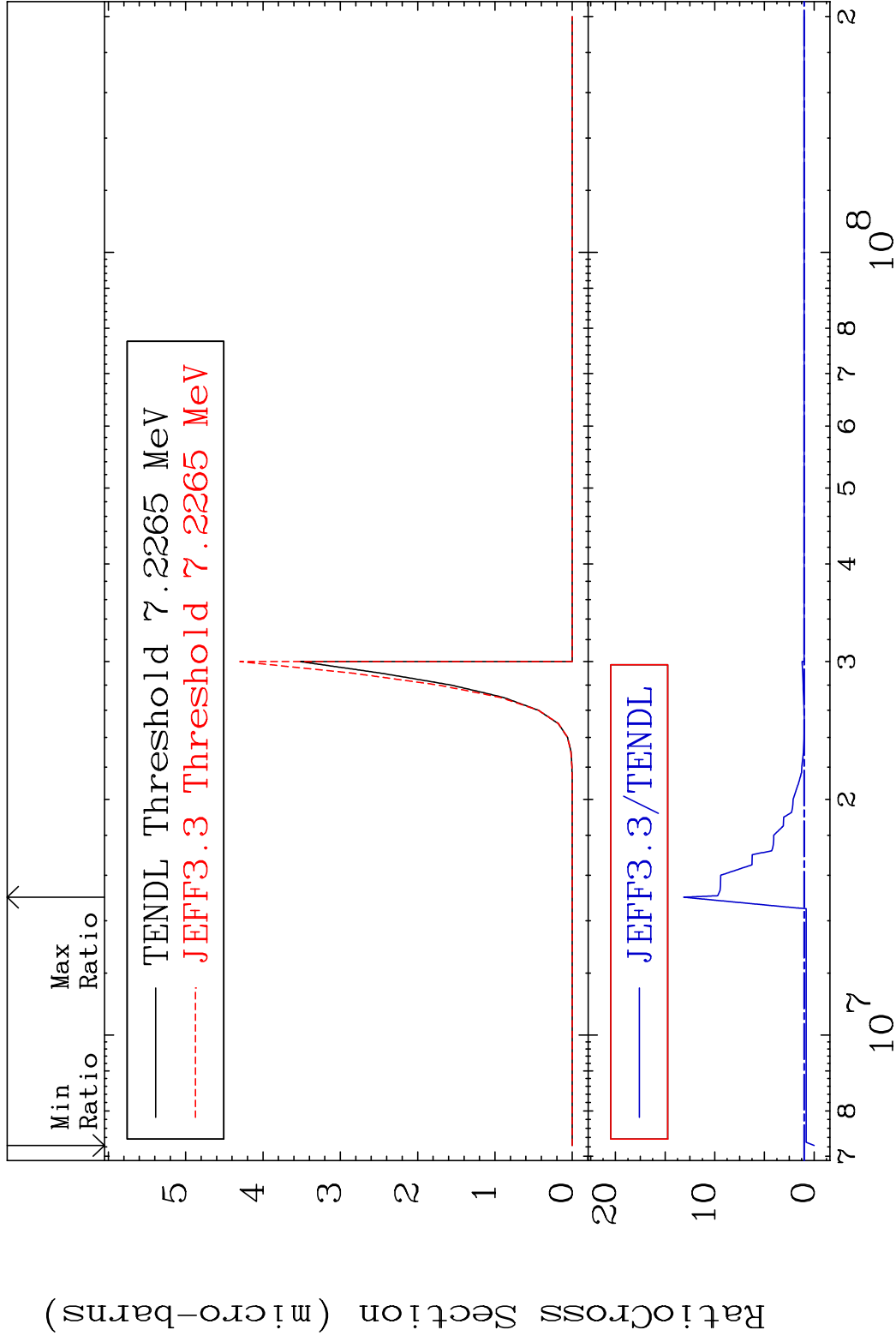
Cross Section -26.70 To 9999. %



MAT 3131

(n,2α) 31-Ga-71

Cross Section -100.0 To 1213. %



57

Incident Energy (eV)

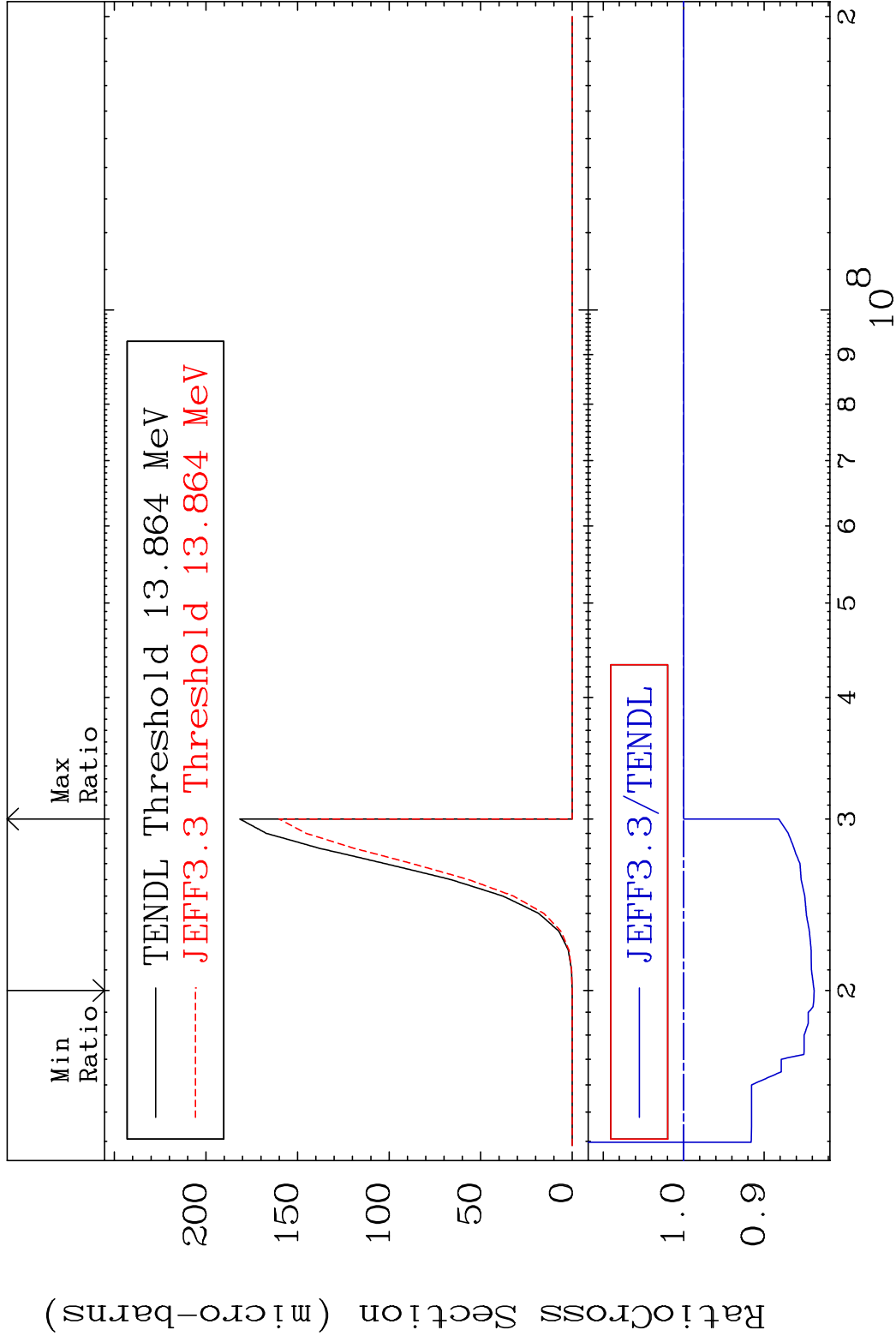
31-Ga-71

MAT 3131

(n,2p)

31-Ga-71

Cross Section -16.22 To 0.000 %



58

Incident Energy (eV)

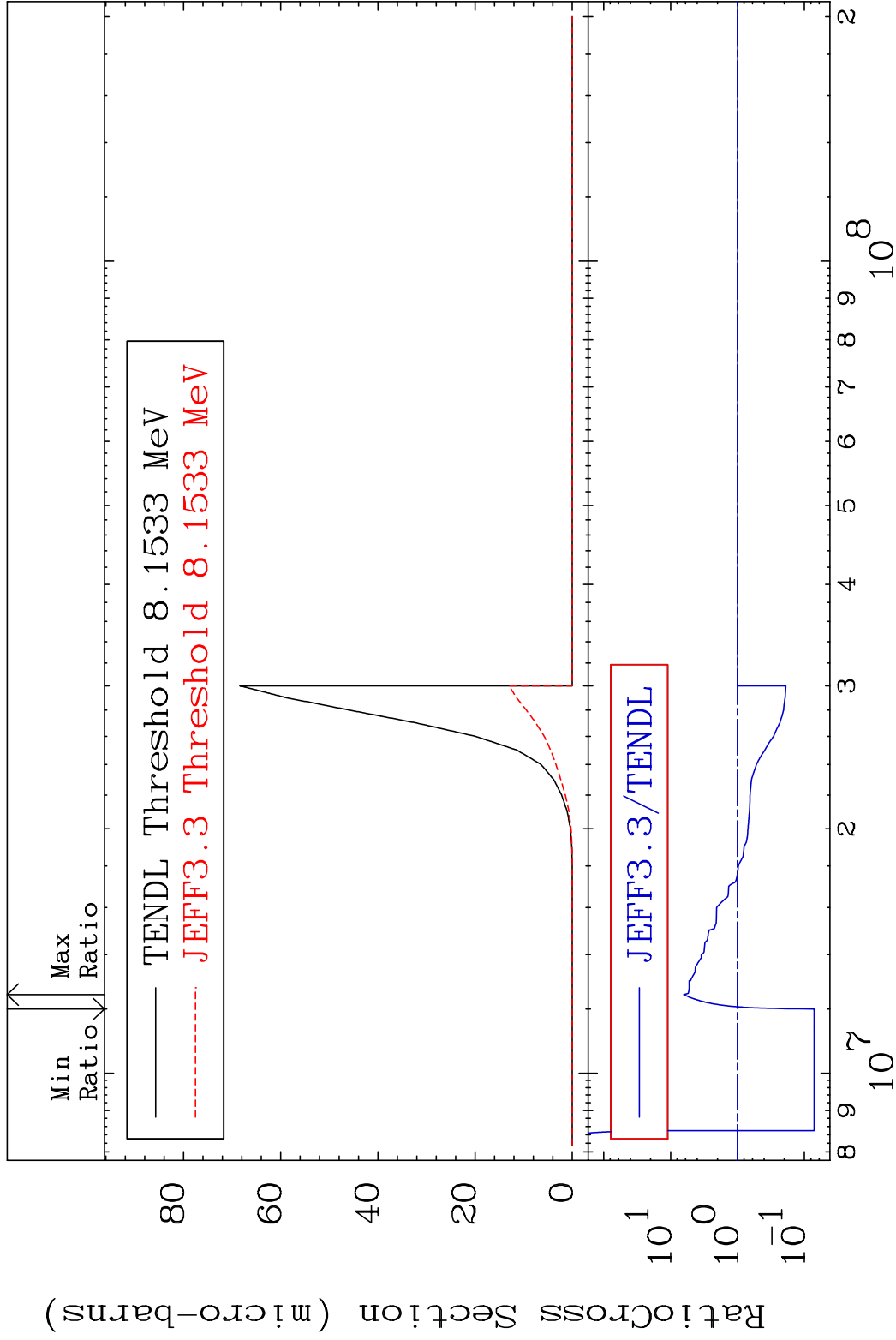
31-Ga-71

MAT 3131

(n,p) α

31-Ga-71

Cross Section -92.83 To 538.7 %



59

Incident Energy (eV)

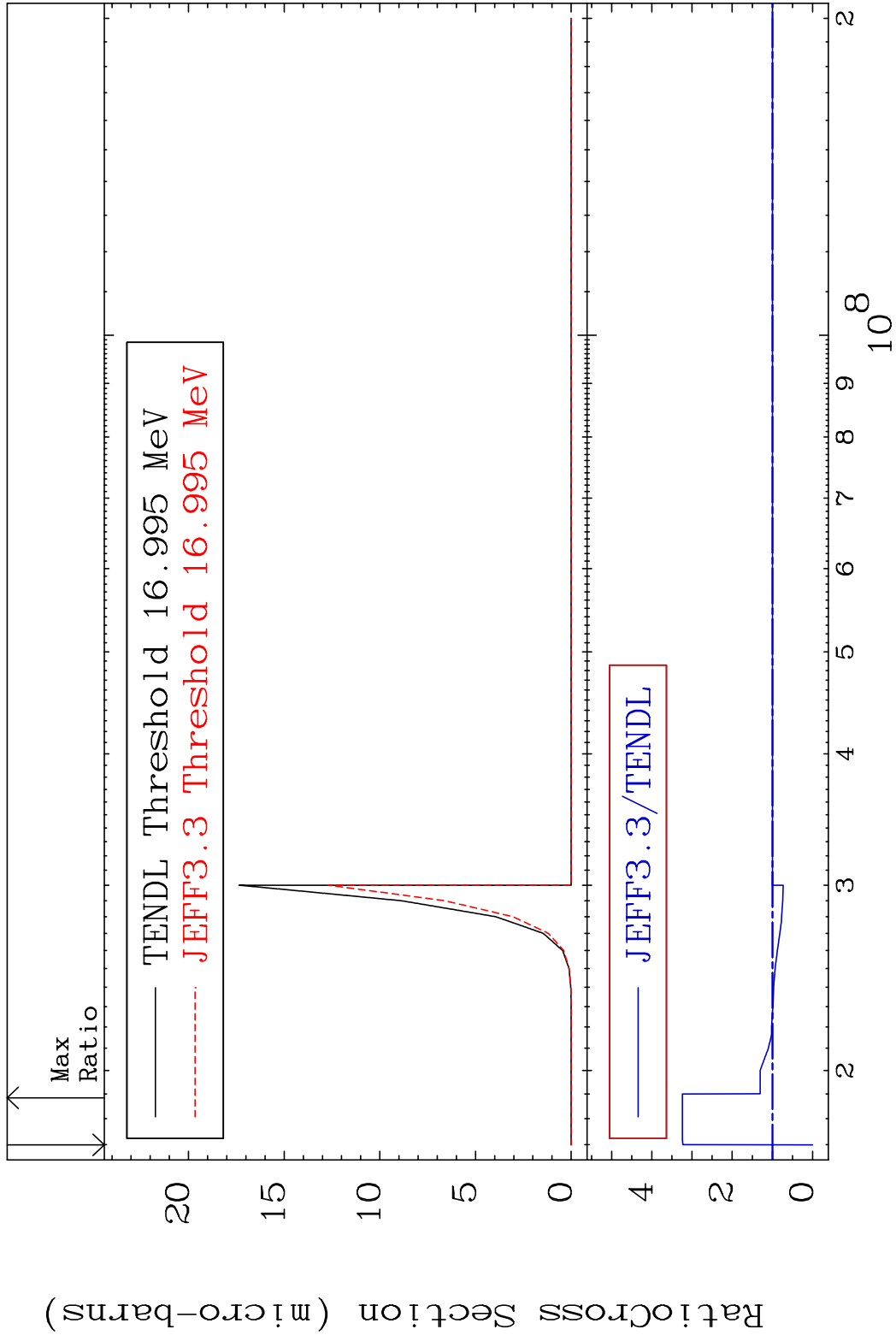
31-Ga-71

MAT 3131

(n,p) d

31-Ga-71

Cross Section -100.0 To 224.1 %

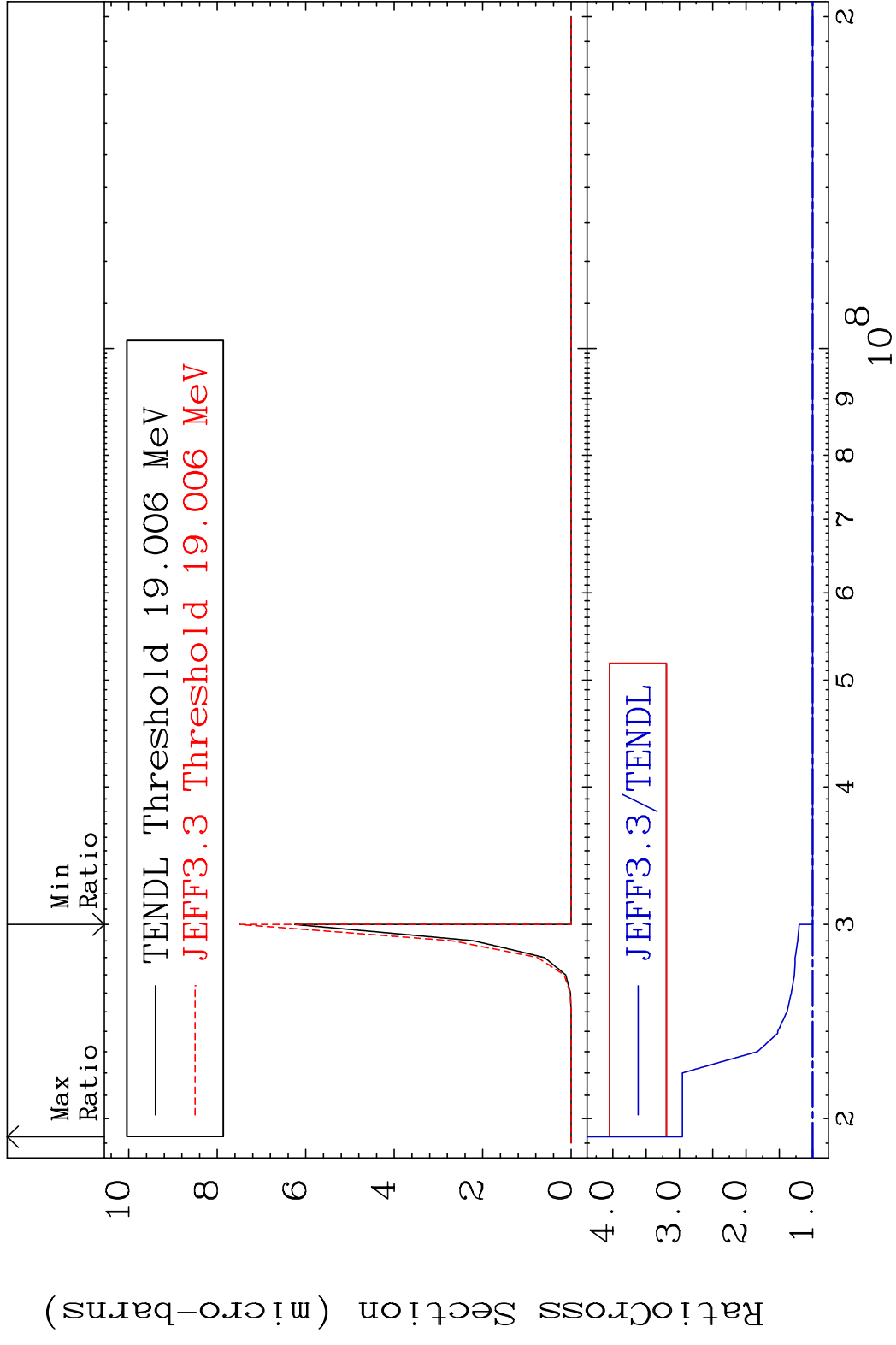


60

Incident Energy (eV)

31-Ga-71

MAT 3131 (n,p) t 31-Ga-71
 Cross Section 0.000 To 195.6 %

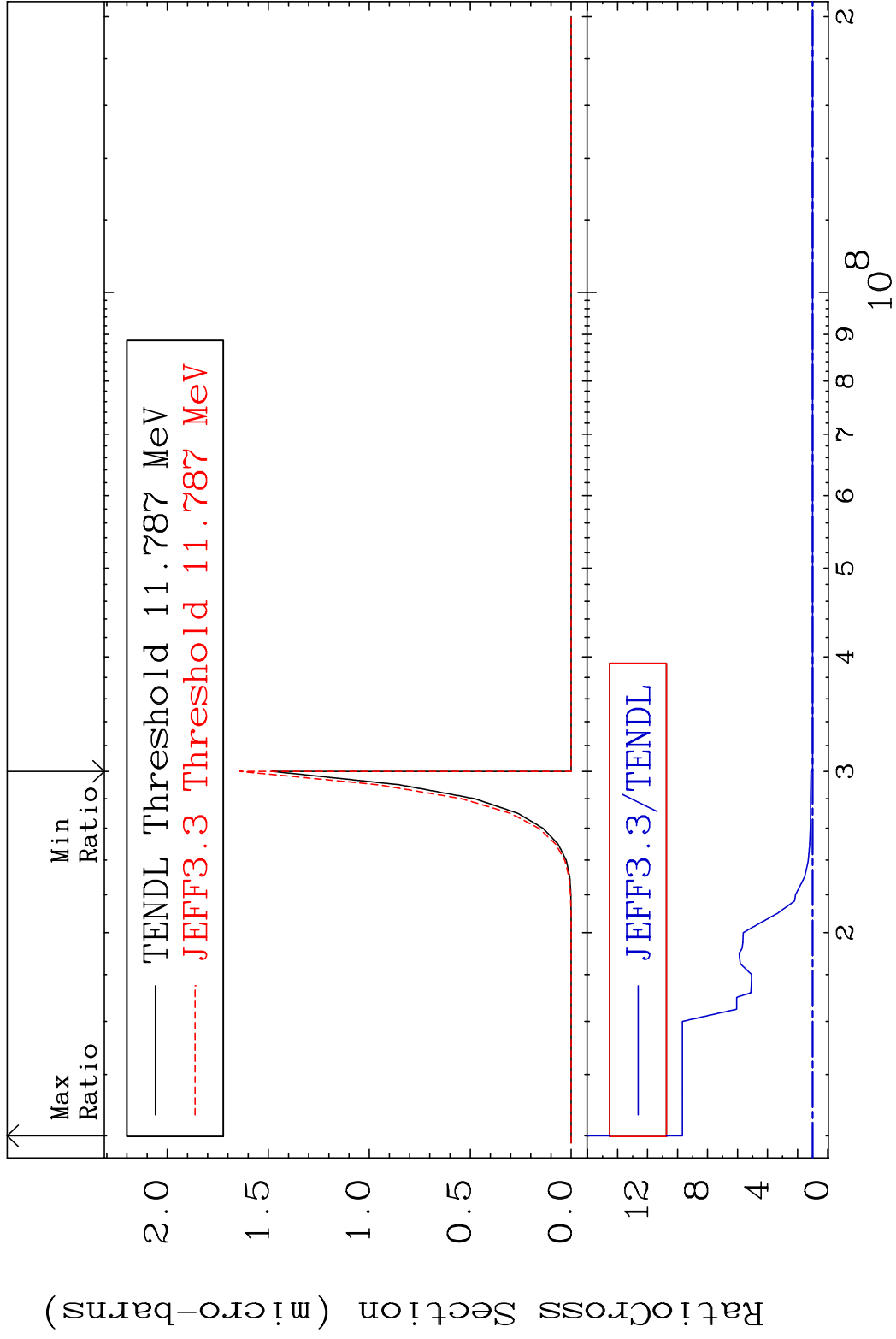


MAT 3131

(n, d) α

31-Ga-71

Cross Section 0.000 To 868.2 %



62

Incident Energy (eV)

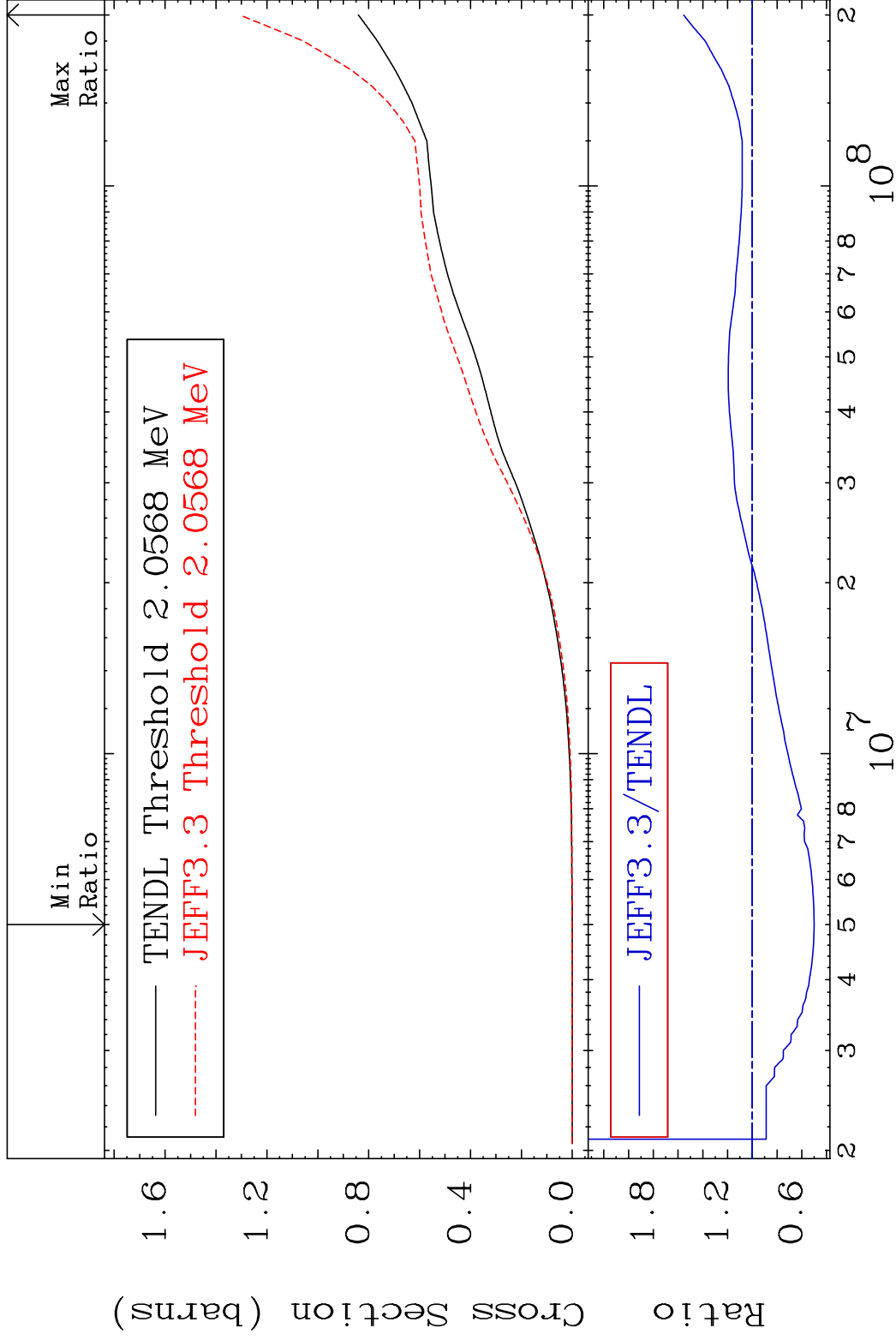
31-Ga-71

MAT 3131

Hydrogen Production

31-Ga-71

Cross Section -49.94 To 55.46 %

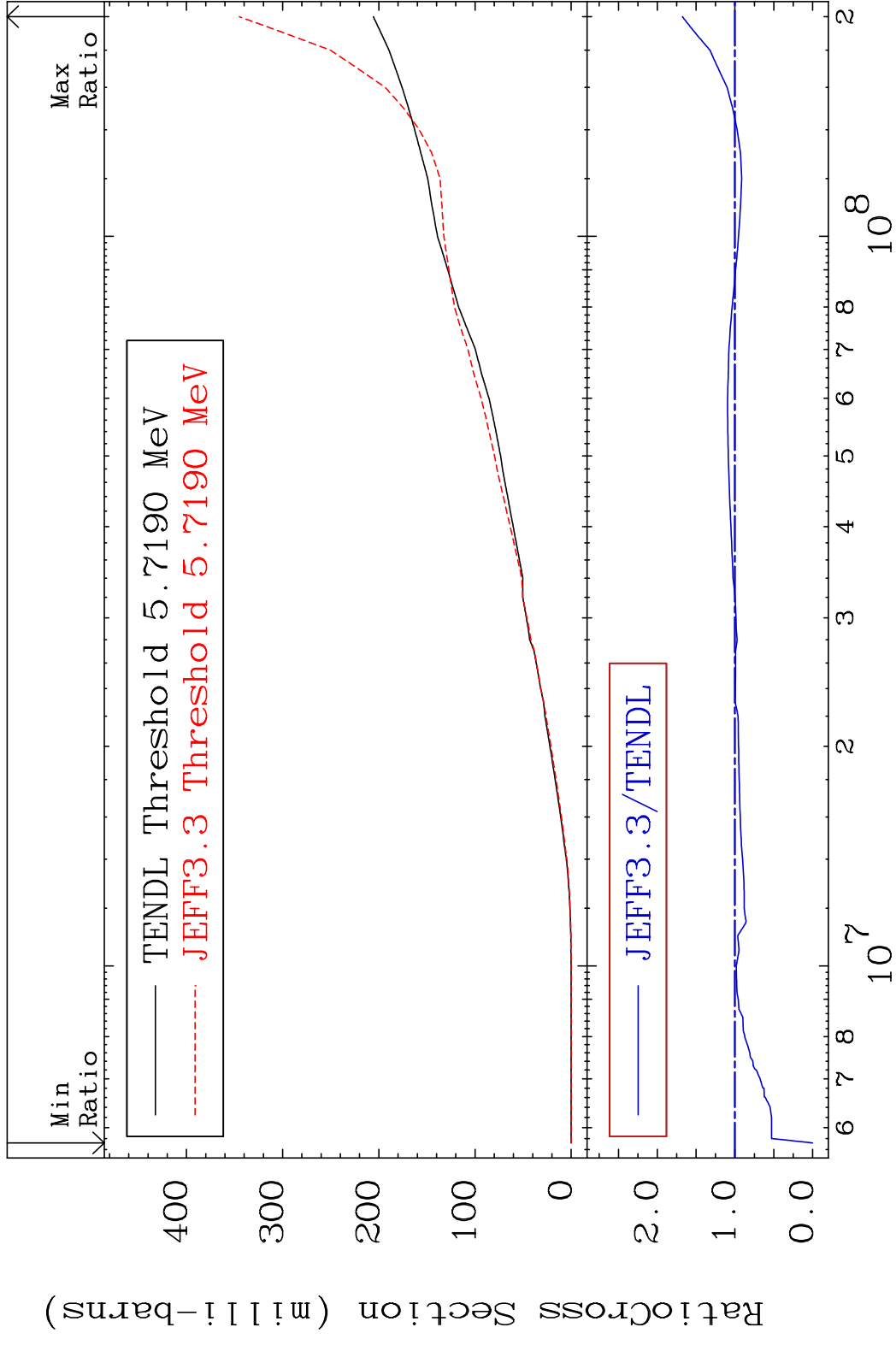


63

Incident Energy (eV)

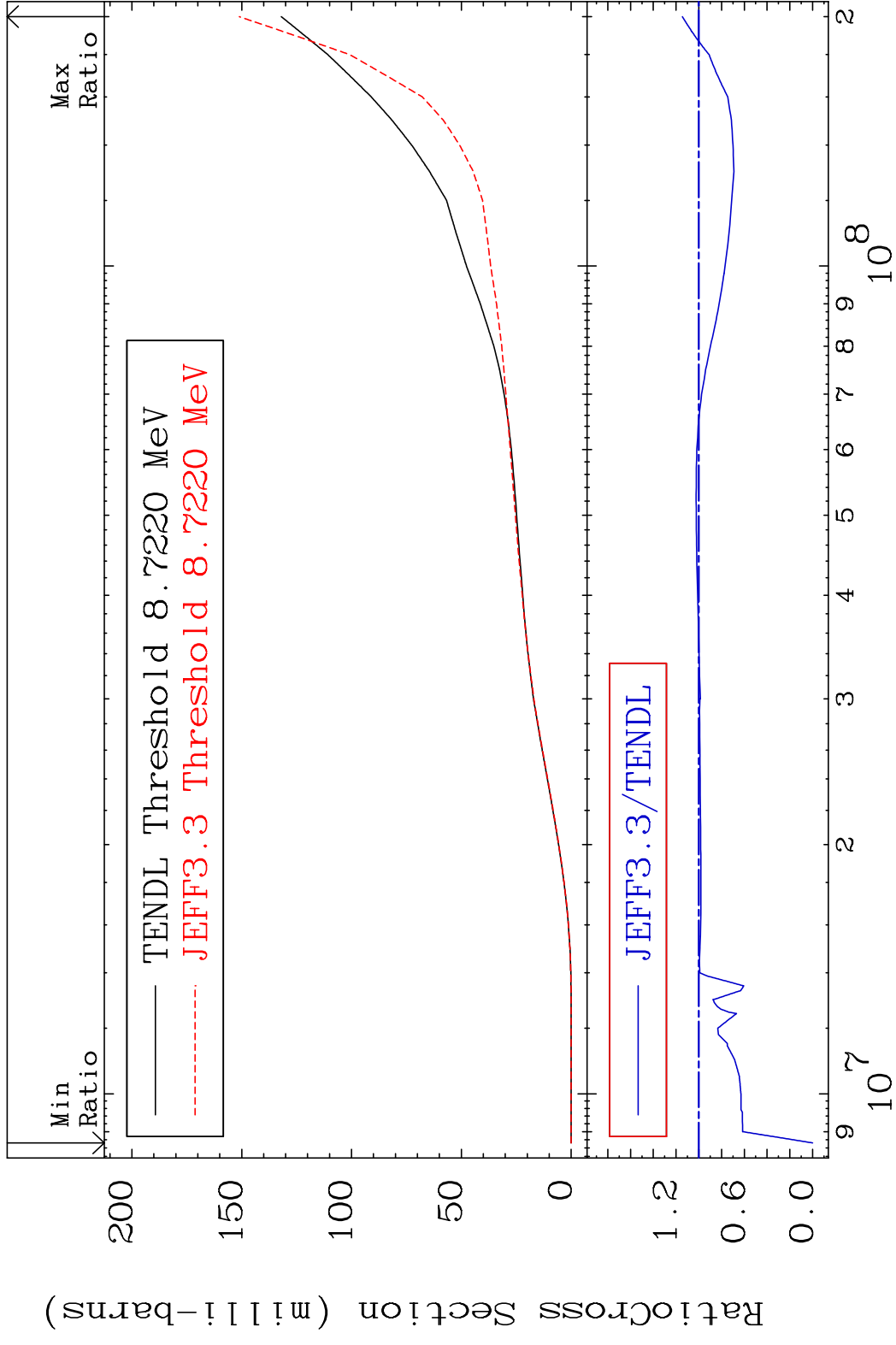
31-Ga-71

MAT 3131 Deuterium Production 31-Ga-71
 Cross Section -100.0 To 67.74 %



64 31-Ga-71

MAT 3131 Tritium Production 31-Ga-71
 Cross Section -100.0 To 14.46 %

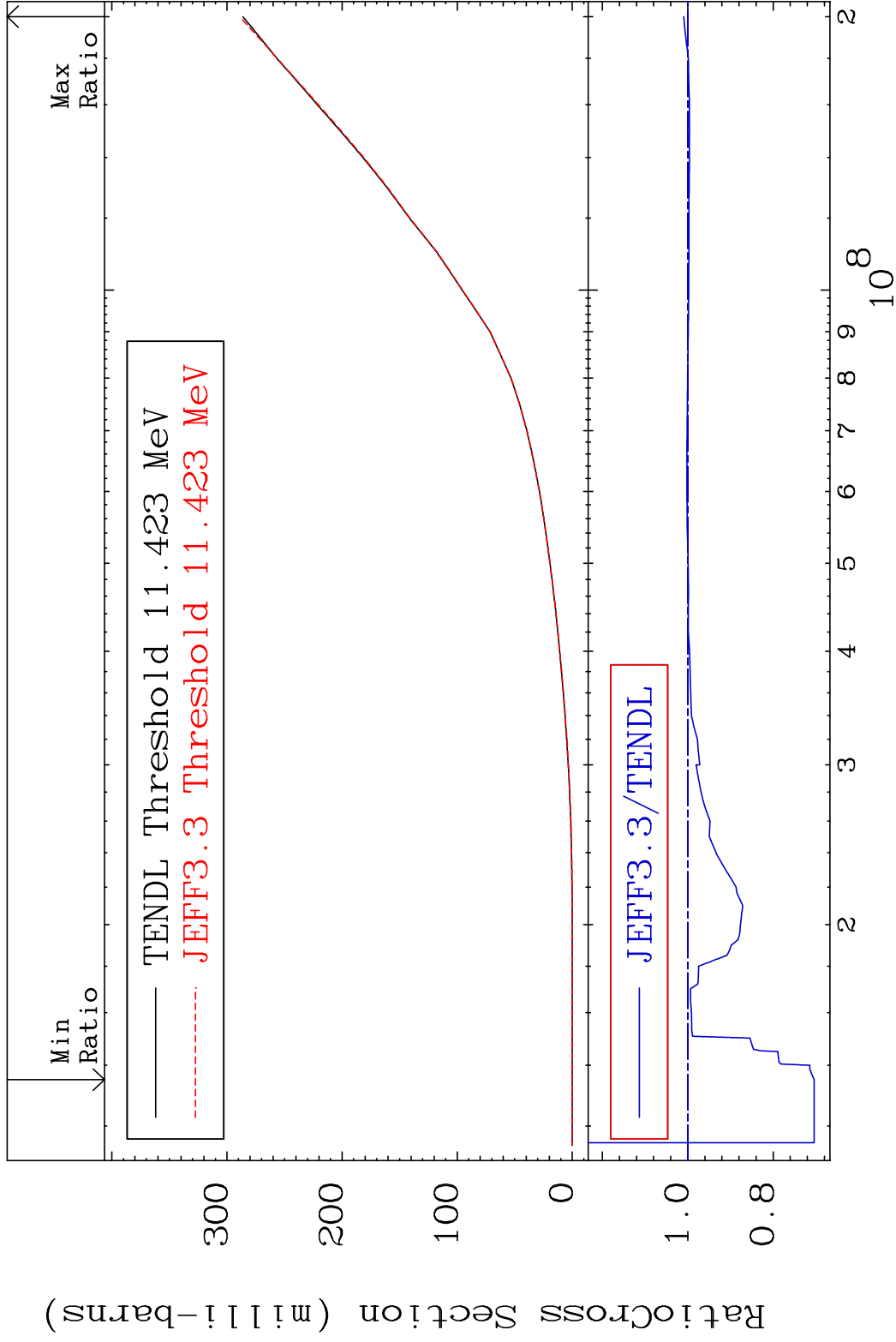


MAT 3131

He-3 Production

31-Ga-71

Cross Section -29.59 To 0.960 %



66

Incident Energy (eV)

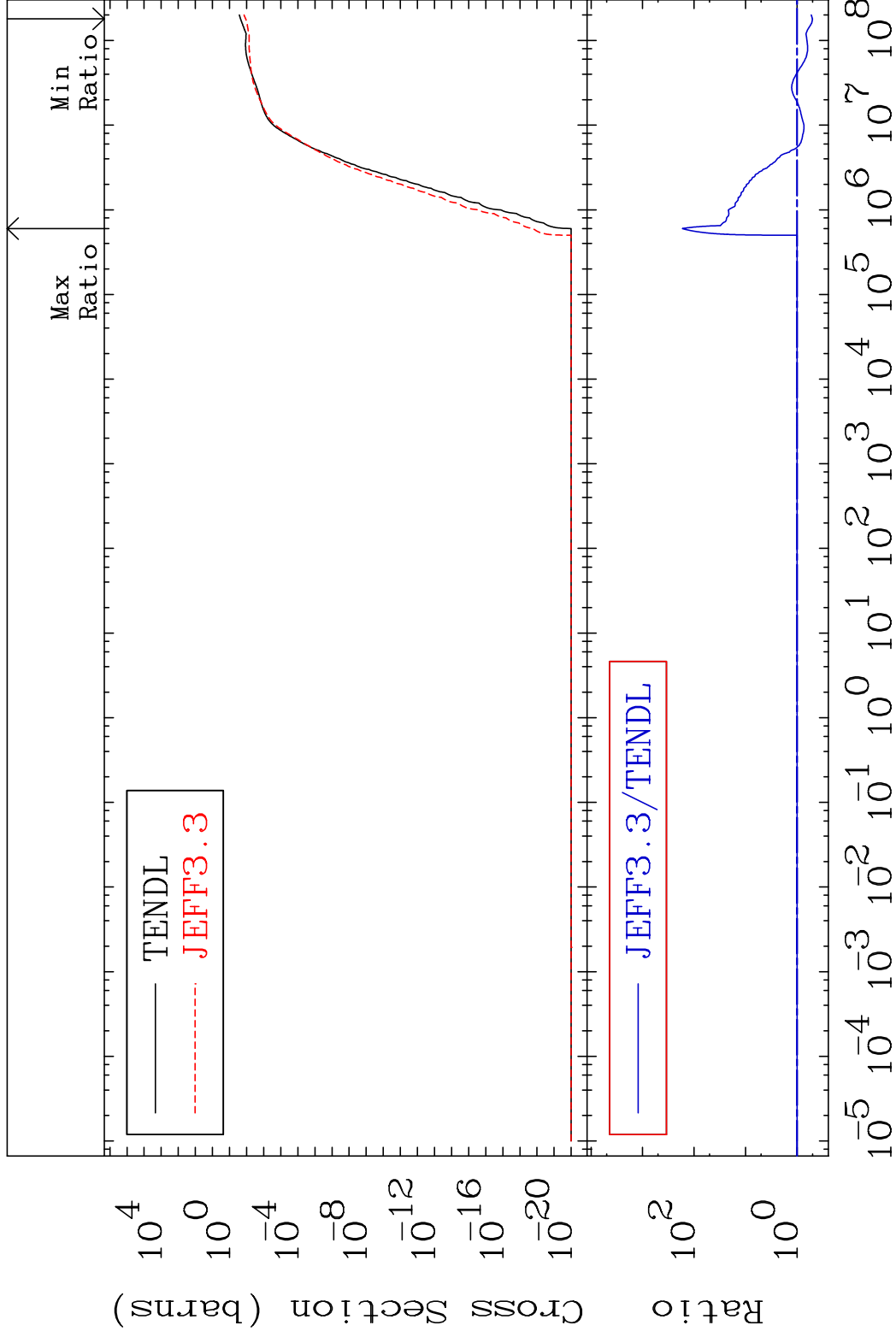
31-Ga-71

MAT 3131

He-4 Production

31-Ga-71

Cross Section -50.01 To 9999. %

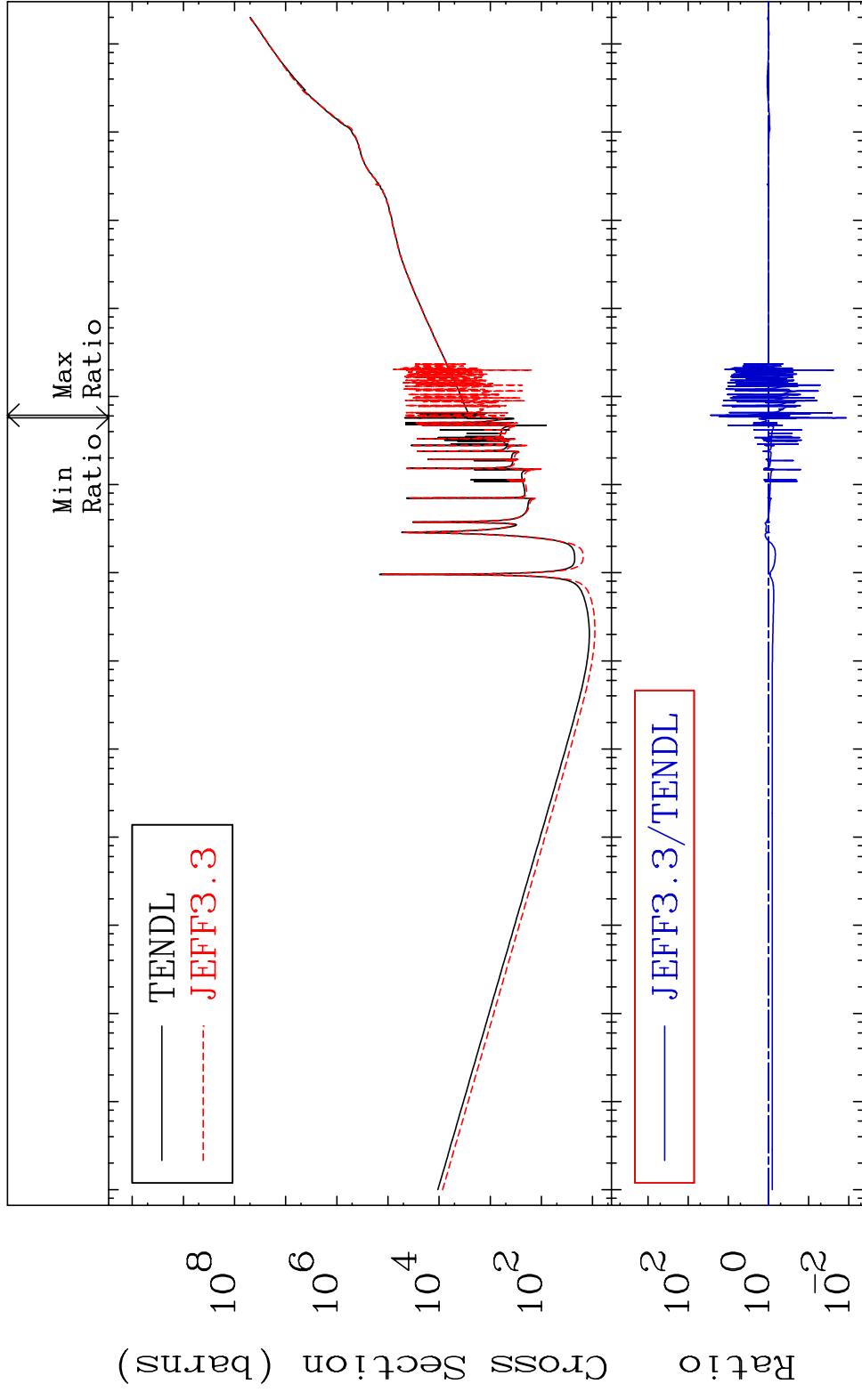


67

Incident Energy (eV)

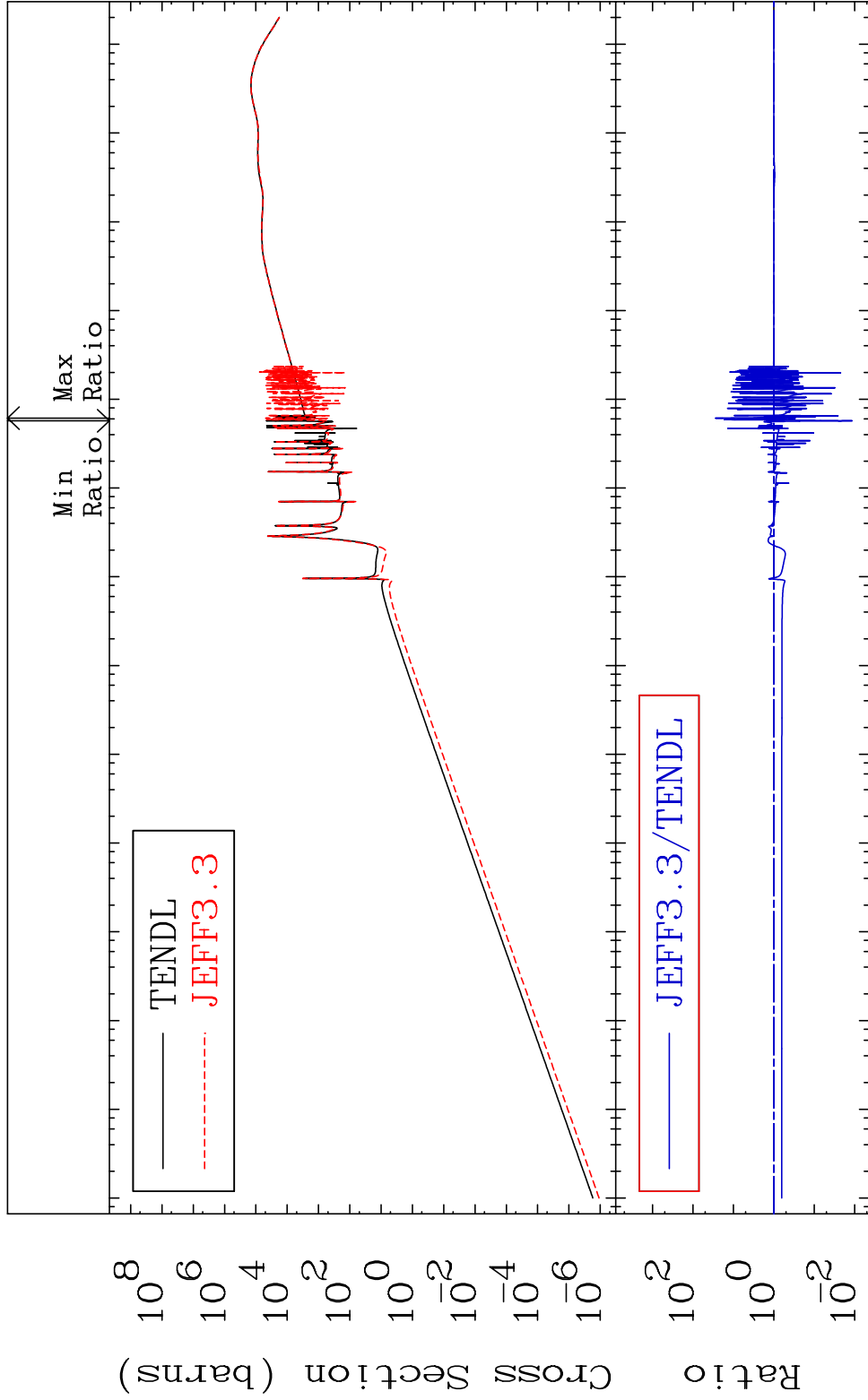
31-Ga-71

MAT 3131 Kerma total (eV-barns) 31-Ga-71
 Cross Section -98.85 To 2654. %



MAT 3131

Kerma elastic Cross Section -98.85 To 2649. %
31-Ga-71

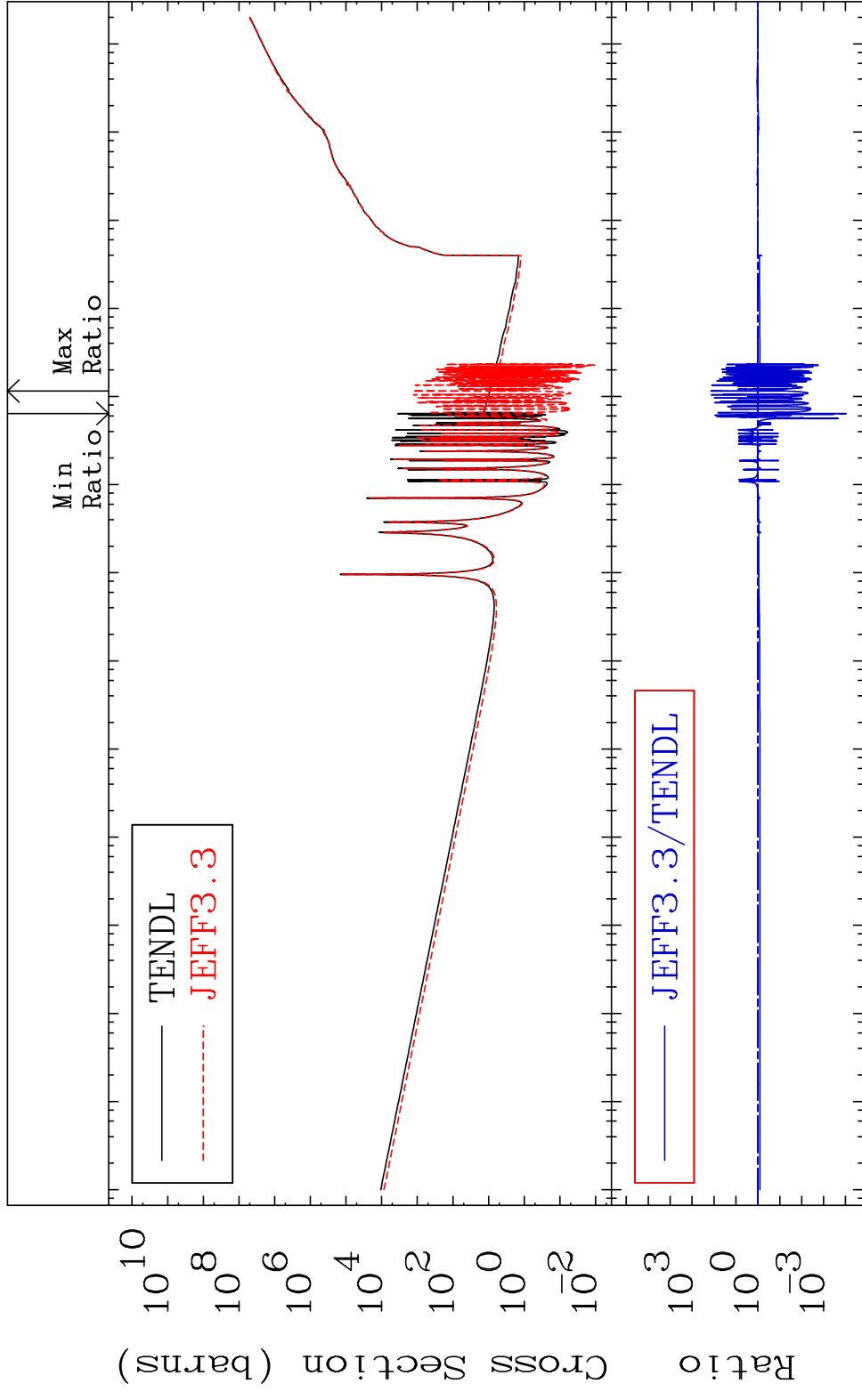


69

Incident Energy (eV)

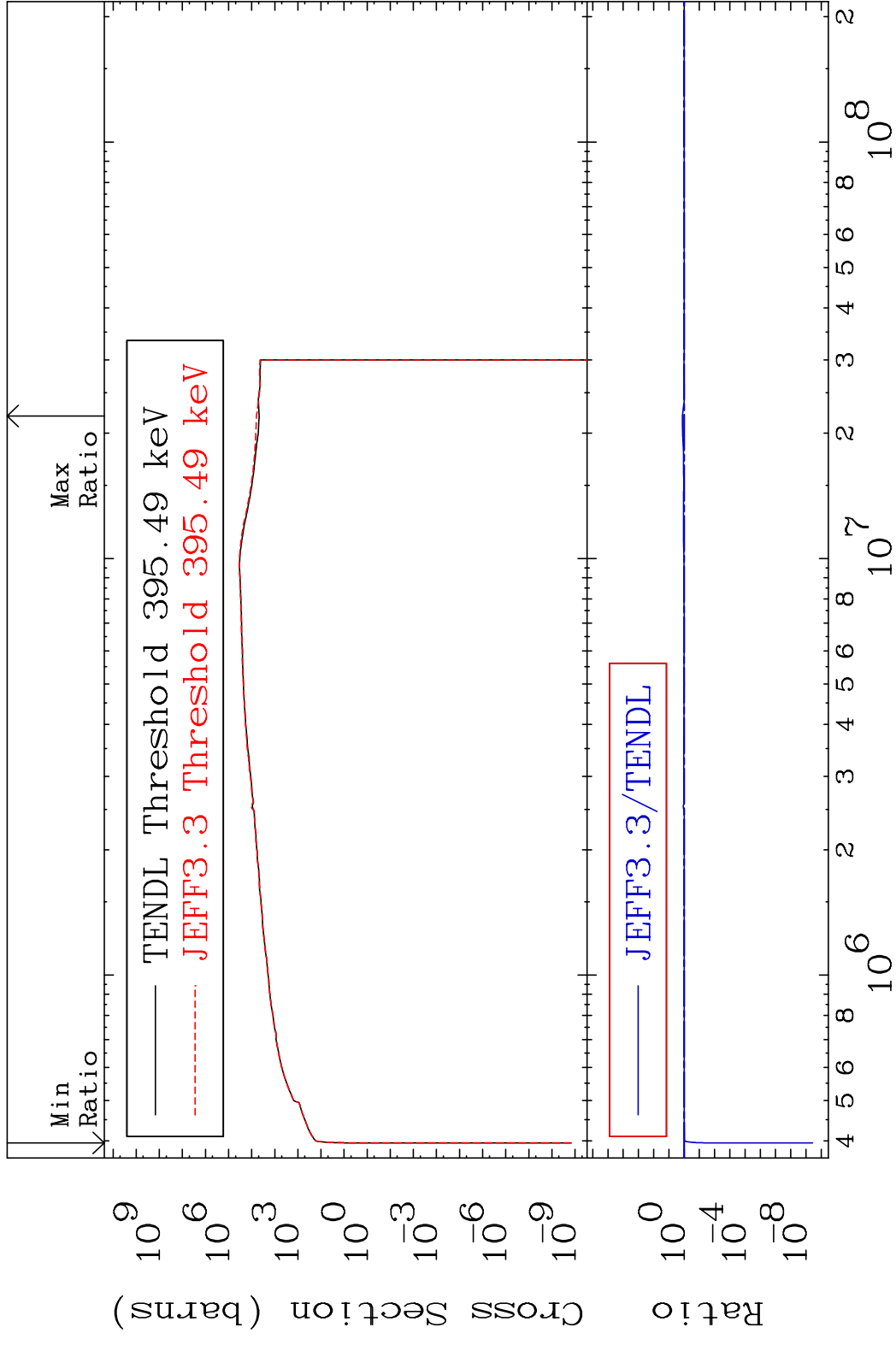
31-Ga-71

MAT 3131 Kerma non-elastic (all but mt2) 31-Ga-71
 Cross Section -99.99 To 9999. %

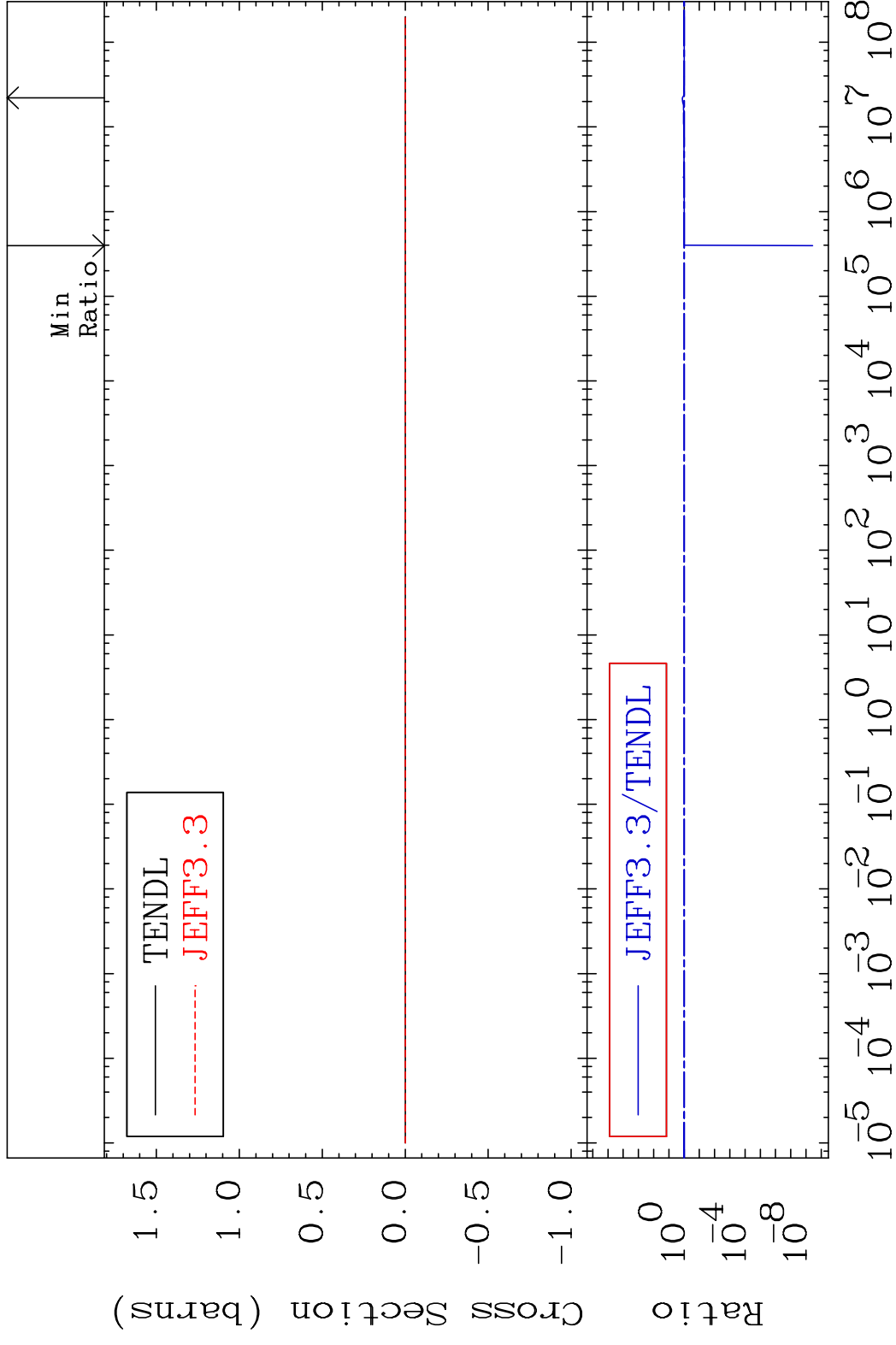


70 Incident Energy (eV) 31-Ga-71

MAT 3131 Kerma inelastic (mt51-91) 31-Ga-71
 Cross Section -100.0 To 30.95 %



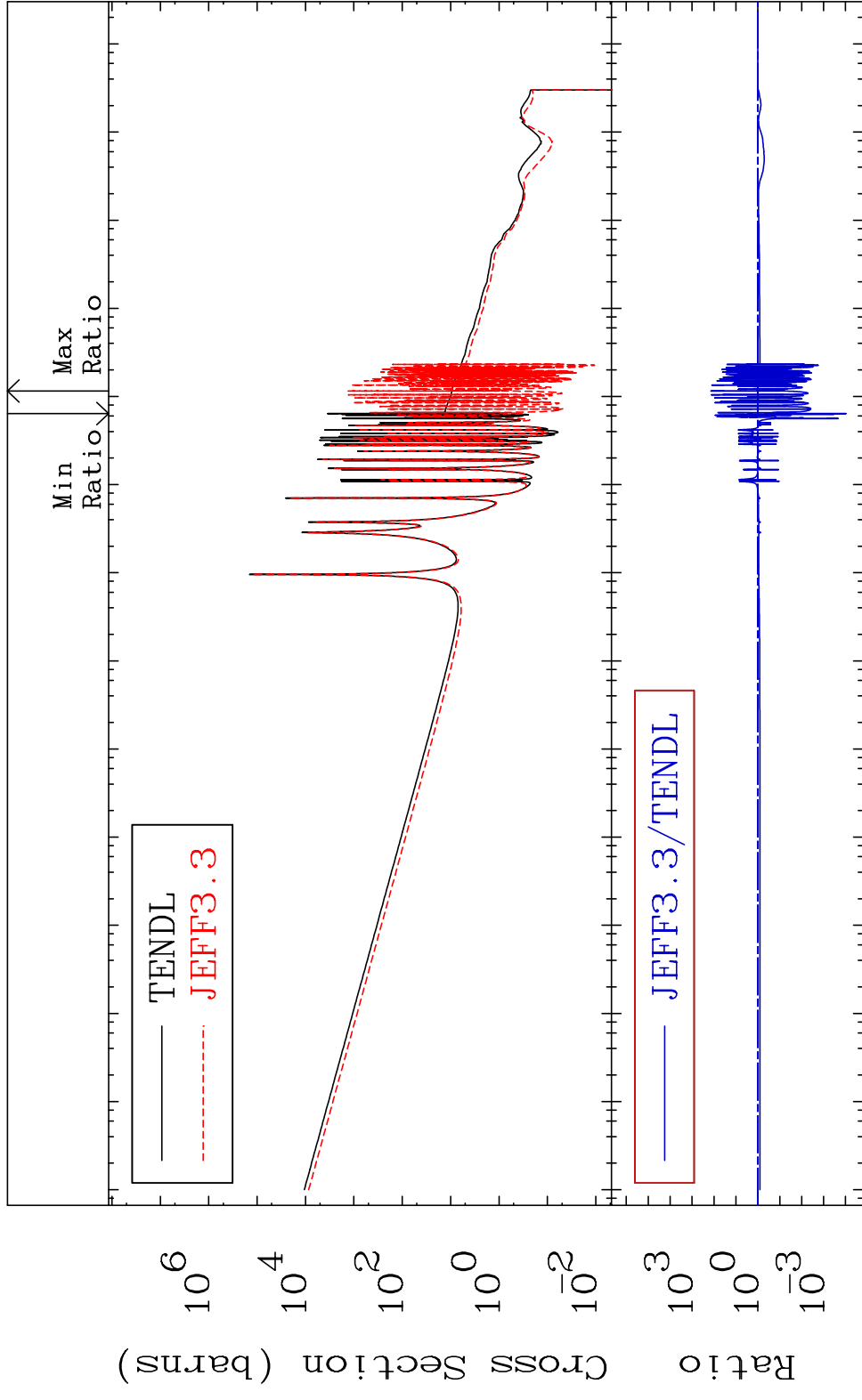
MAT 3131 Kerma fission (mt18 or mt19-20-21-38) 31-Ga-71
 Cross Section -100.0 To 30.95 %



MAT 3131

Kerma capture (mt102) 31-Ga-71

Cross Section -99.99 To 9999. %

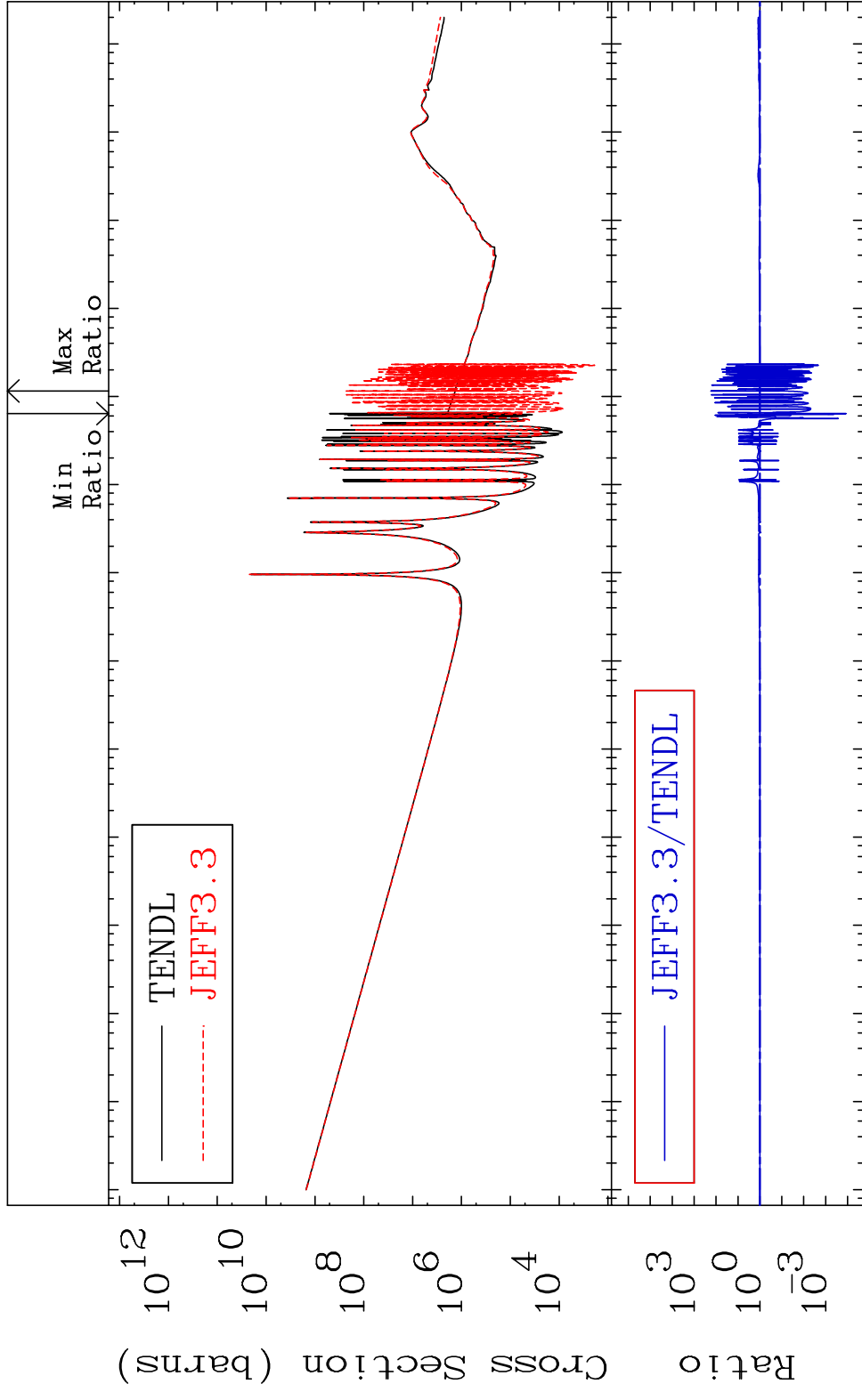


73

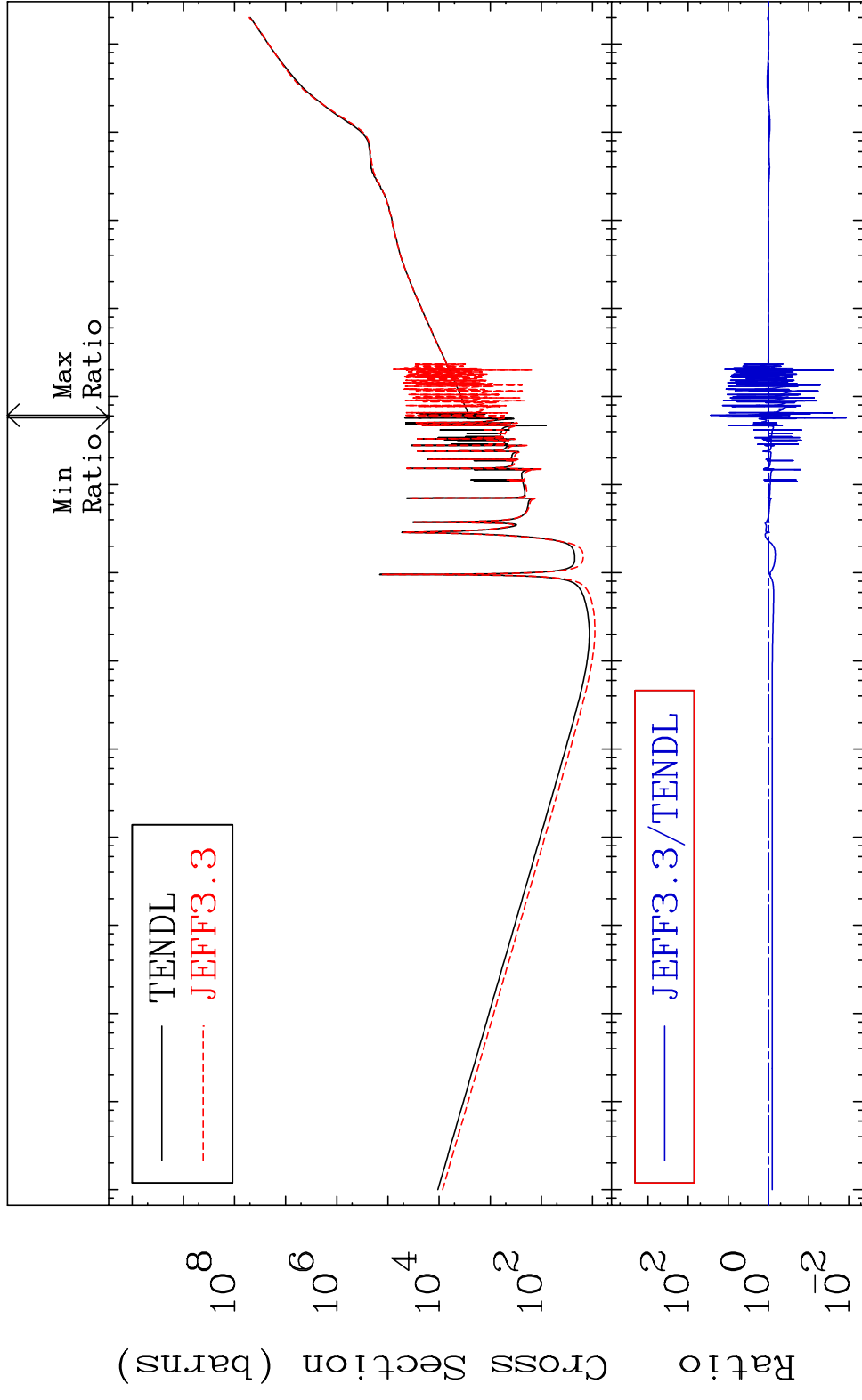
Incident Energy (eV)

31-Ga-71

MAT 3131 Total photon (eV-barns) 31-Ga-71
 Cross Section -99.99 To 9999. %



MAT 3131 Total kinematic kerma (high limit) 31-Ga-71
 Cross Section -98.85 To 2654. %

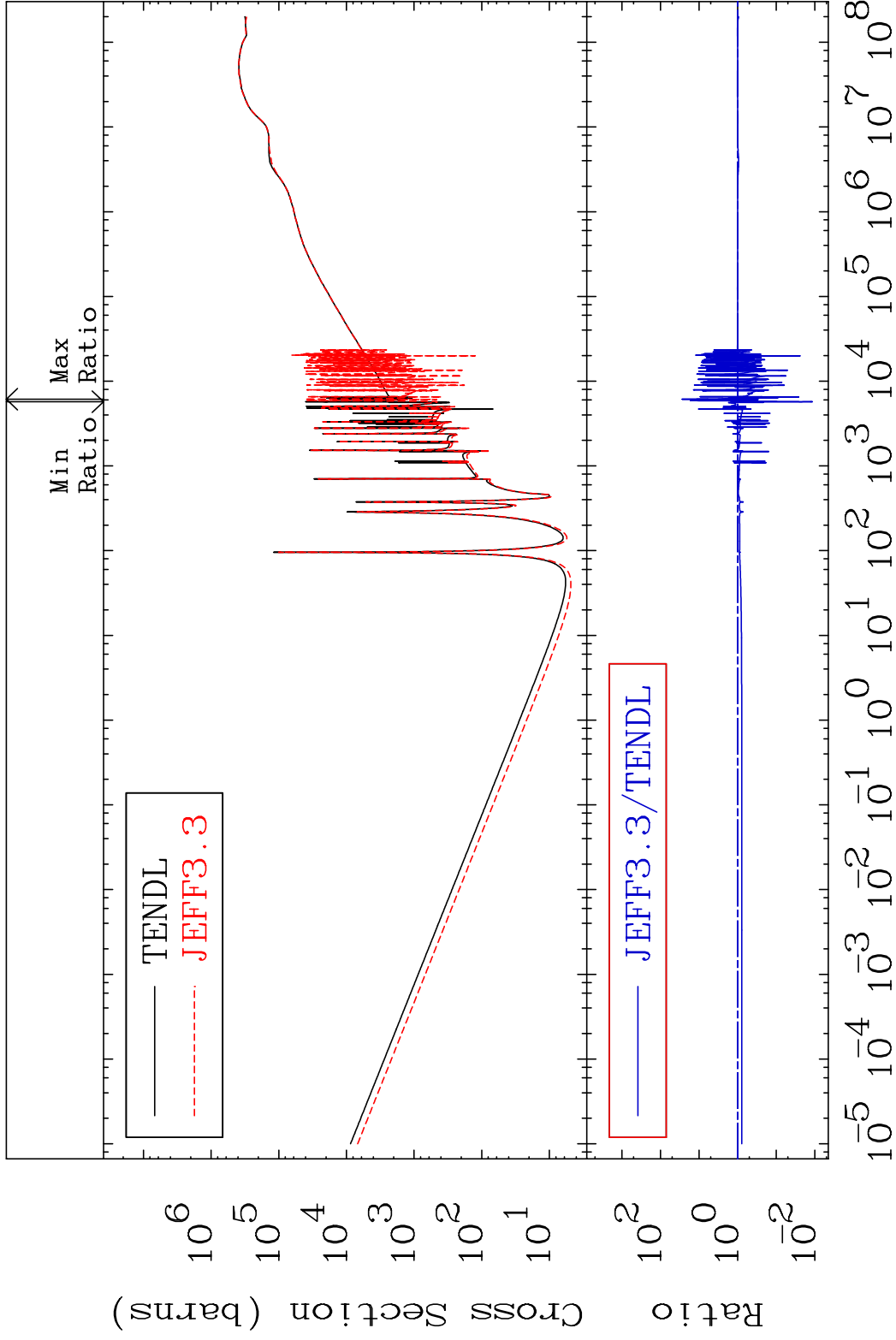


MAT 3131

Dpa total (eV-barns)

31-Ga-71

Cross Section -98.85 To 2654. %



76

Incident Energy (eV)

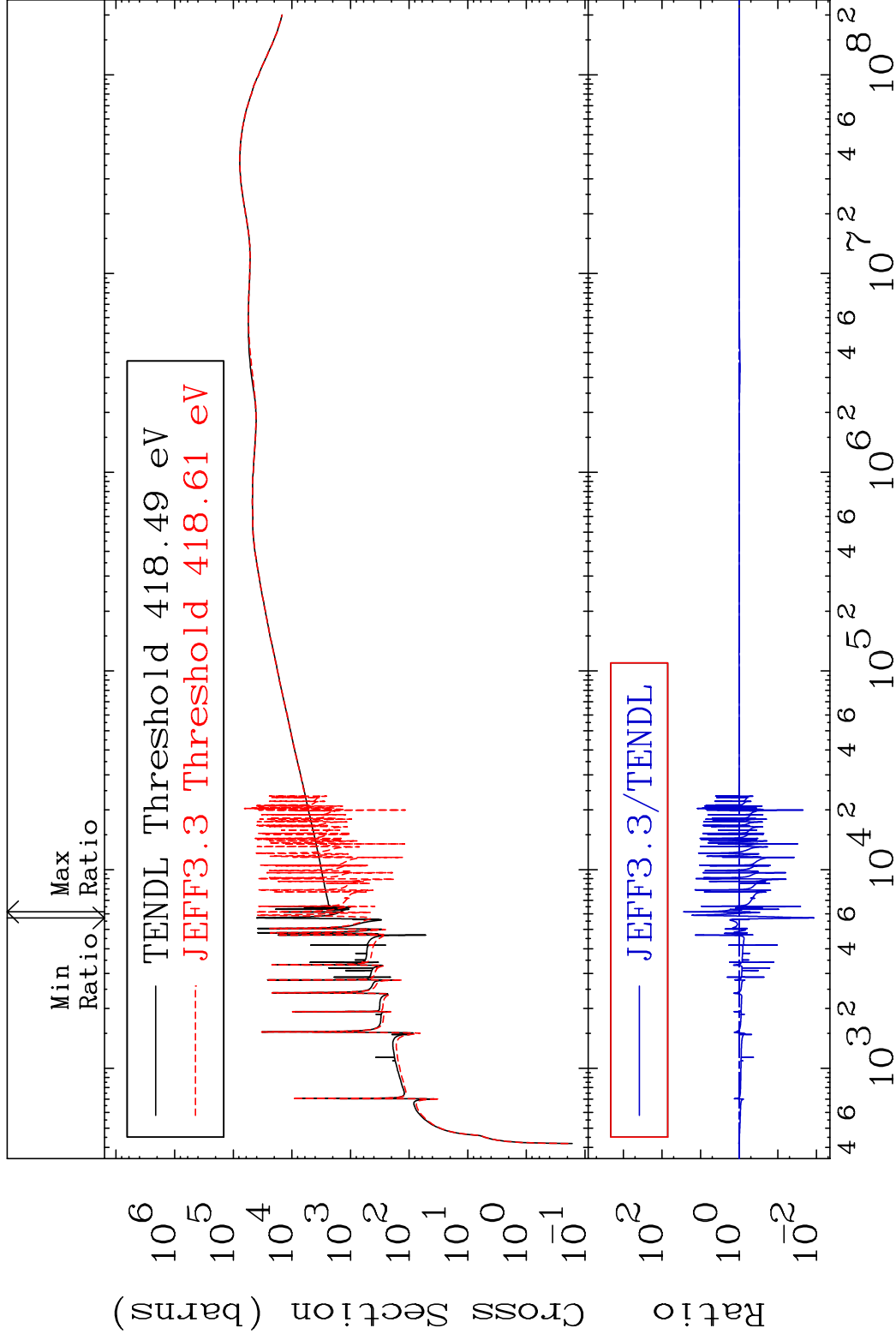
31-Ga-71

MAT 3131

Dpa elastic (mt2)

31-Ga-71

Cross Section -98.85 To 2649. %

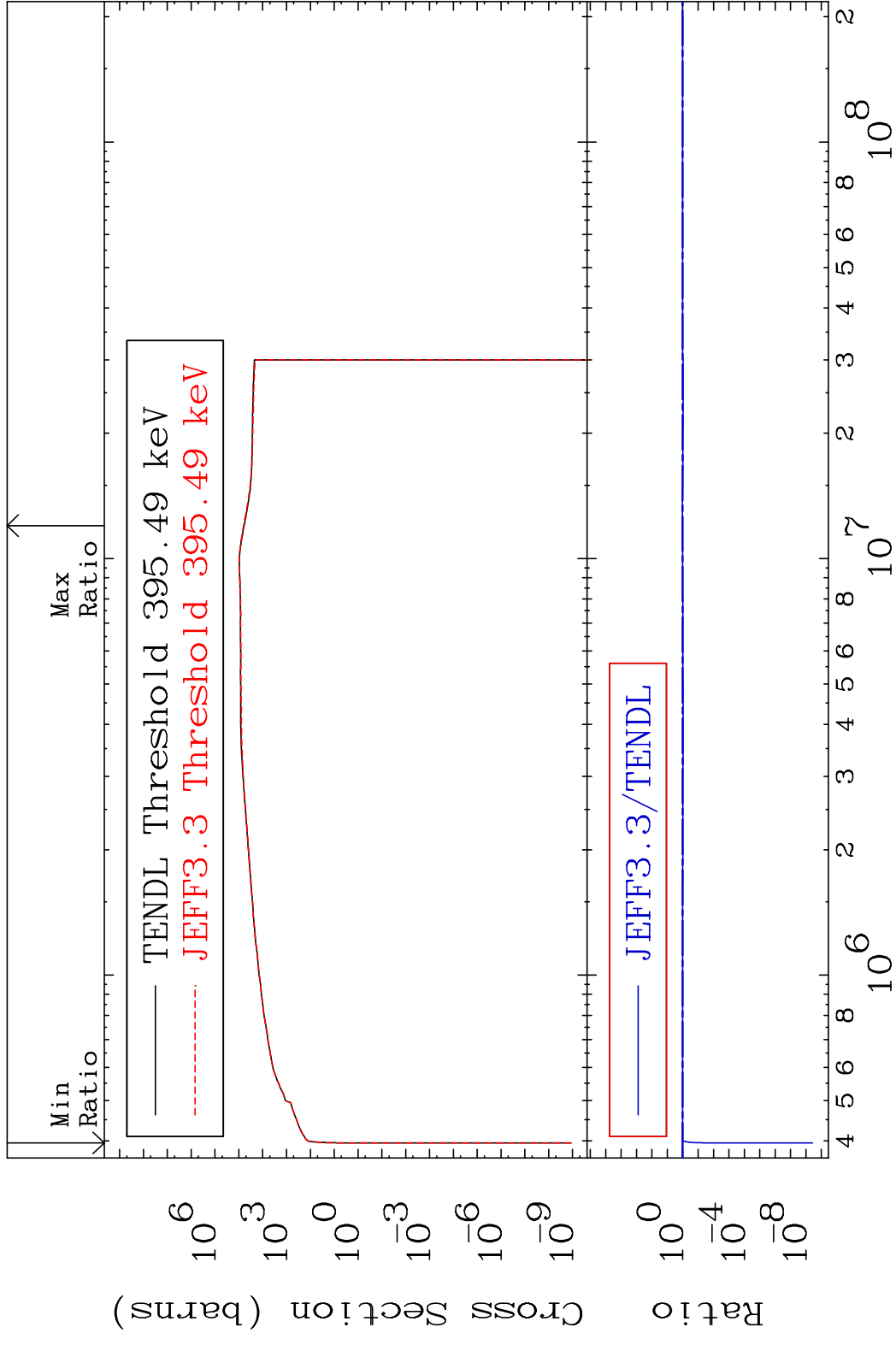


77

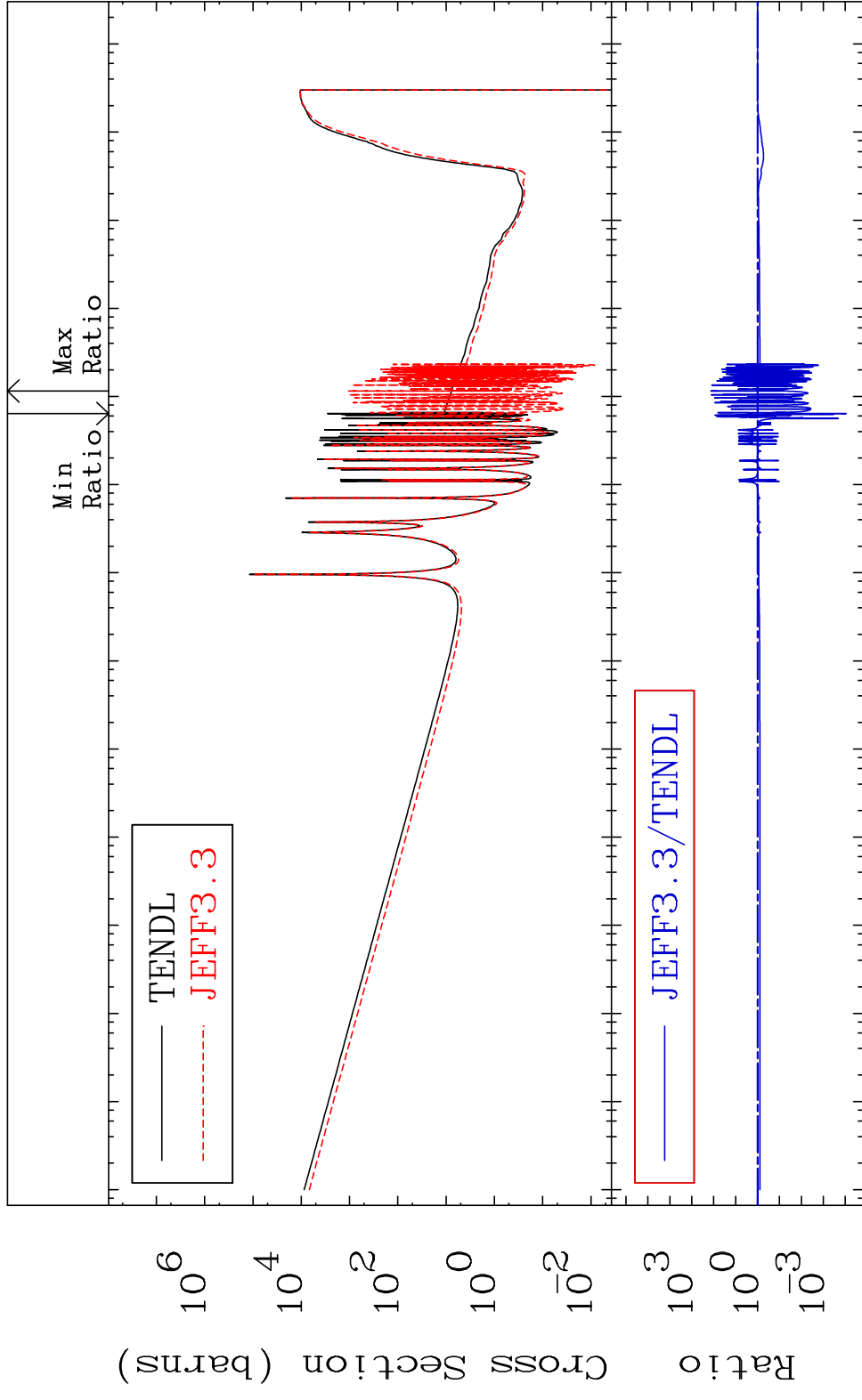
Incident Energy (eV)

31-Ga-71

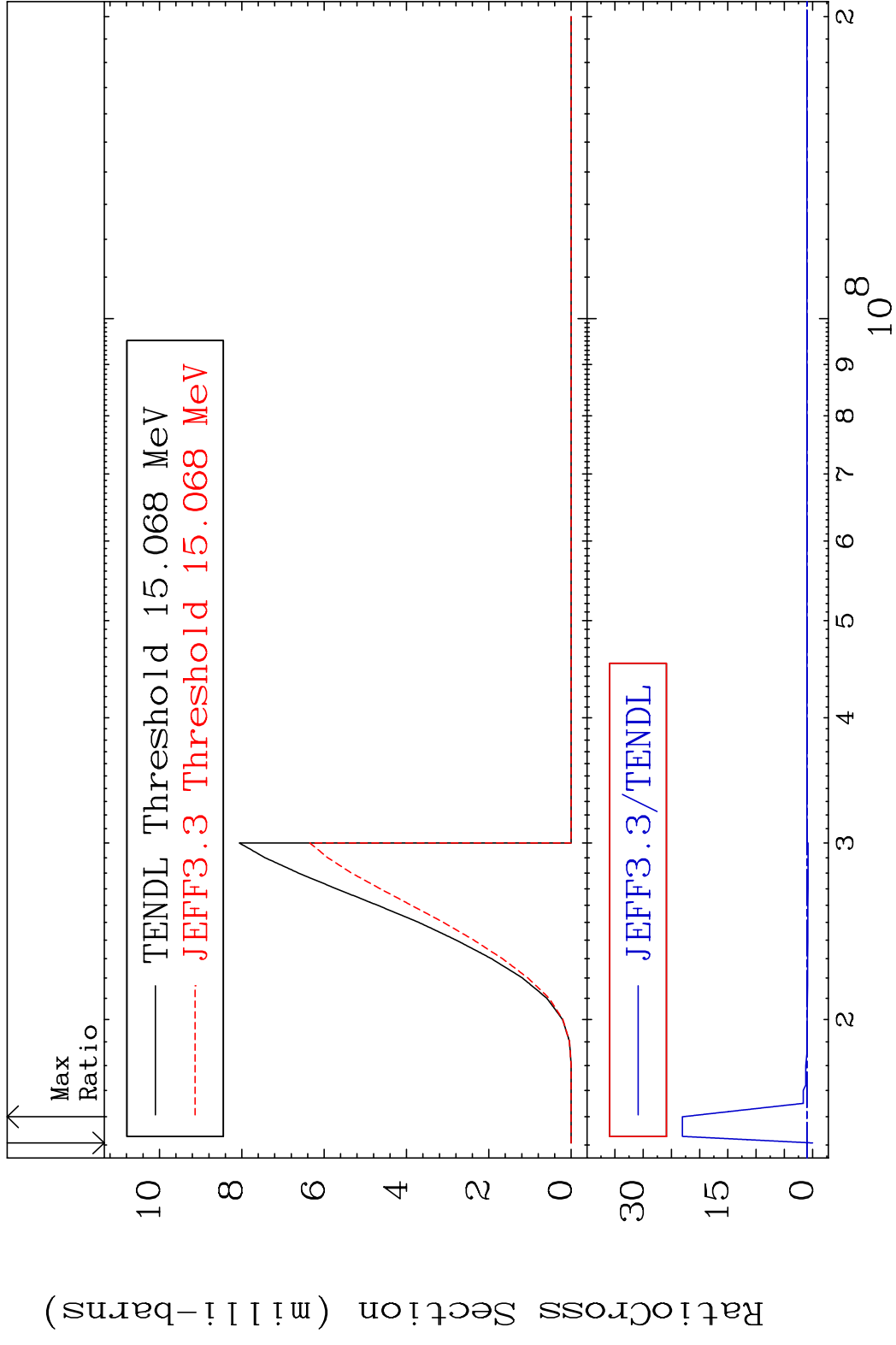
MAT 3131 Dpa inelastic (mt51-91) 31-Ga-71
 Cross Section -100.0 To 5.643 %

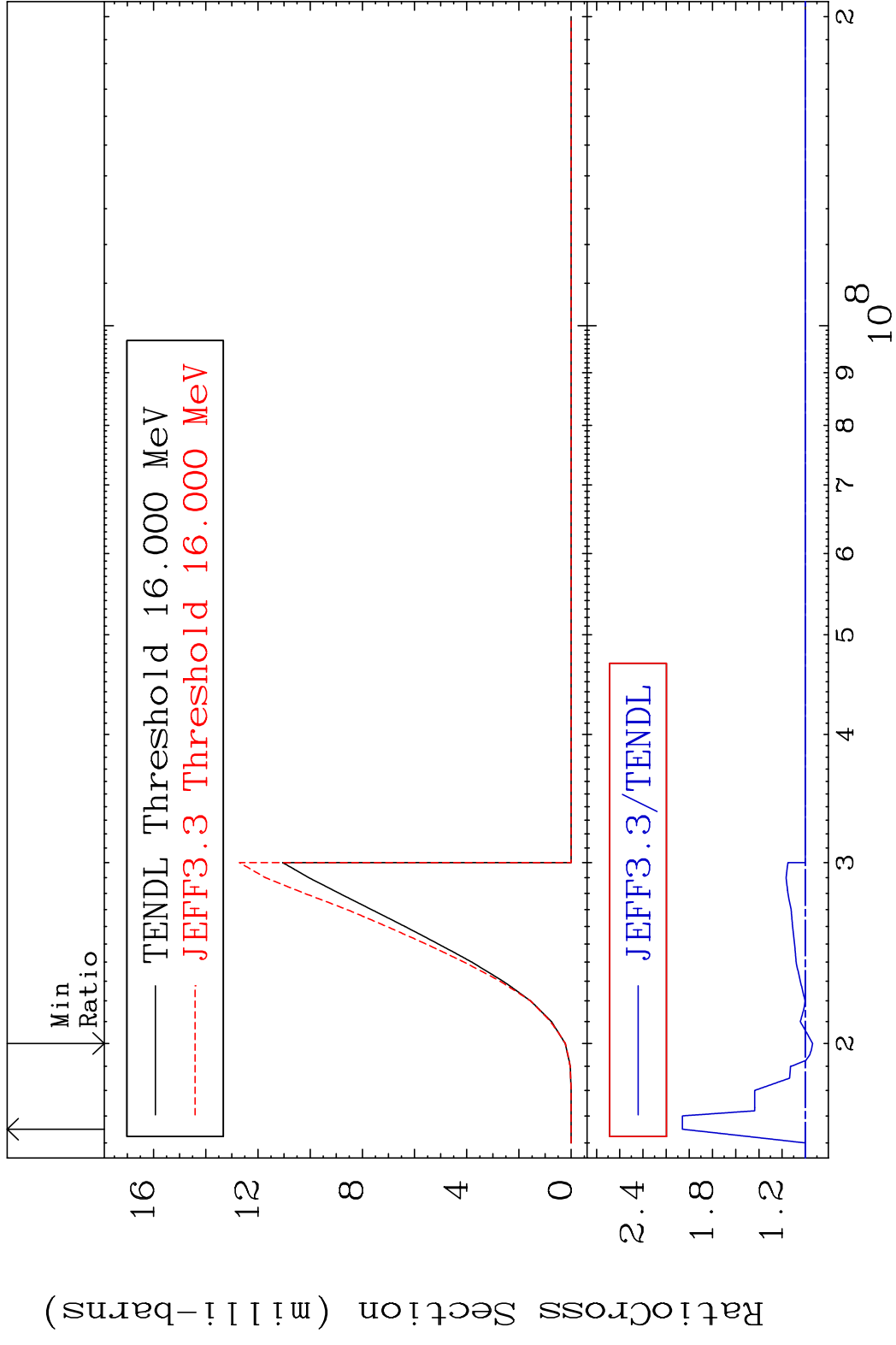


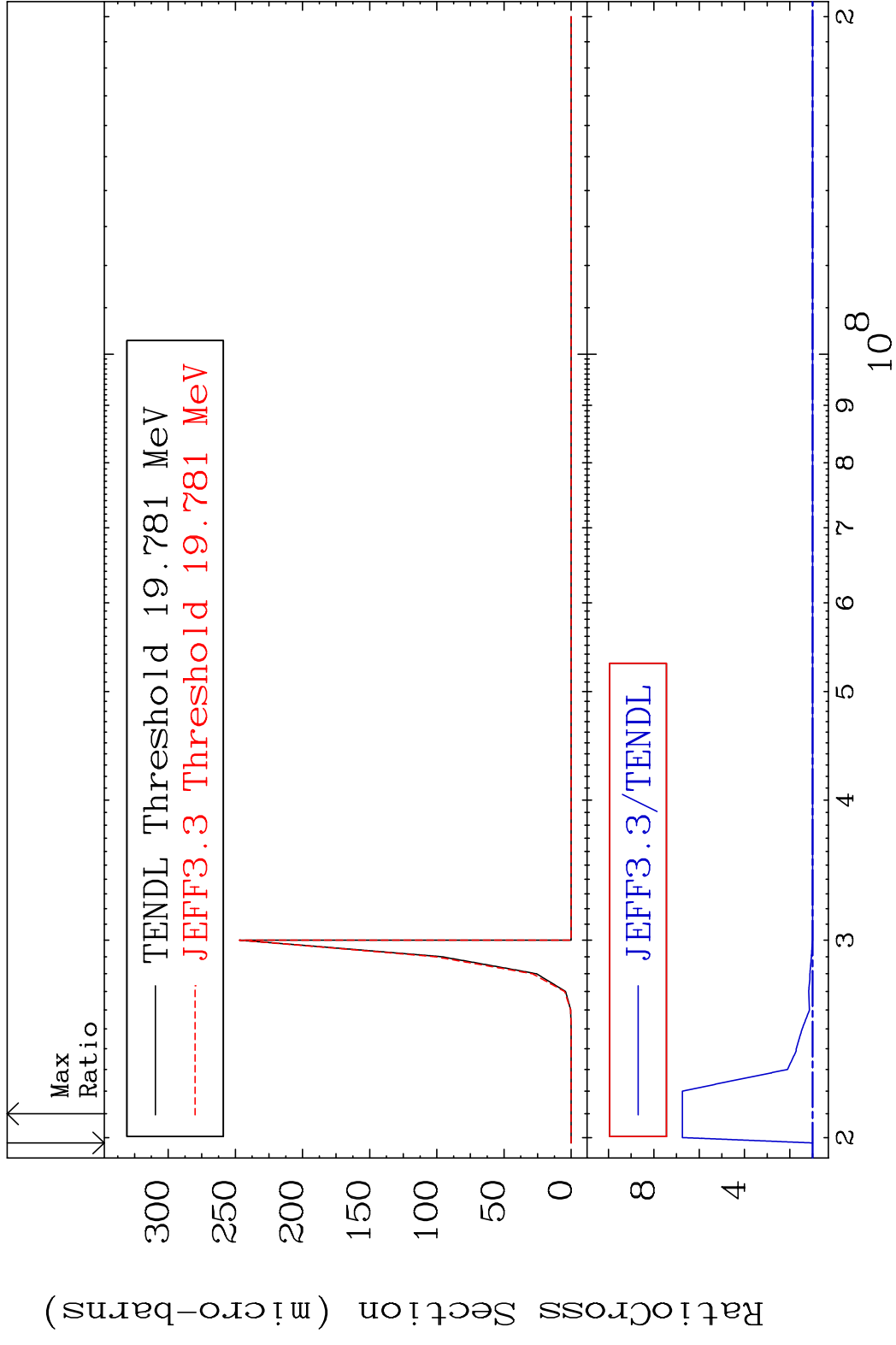
MAT 3131 Dpa disappearance (mt102 -120) 31-Ga-71
 Cross Section -99.99 To 9999. %

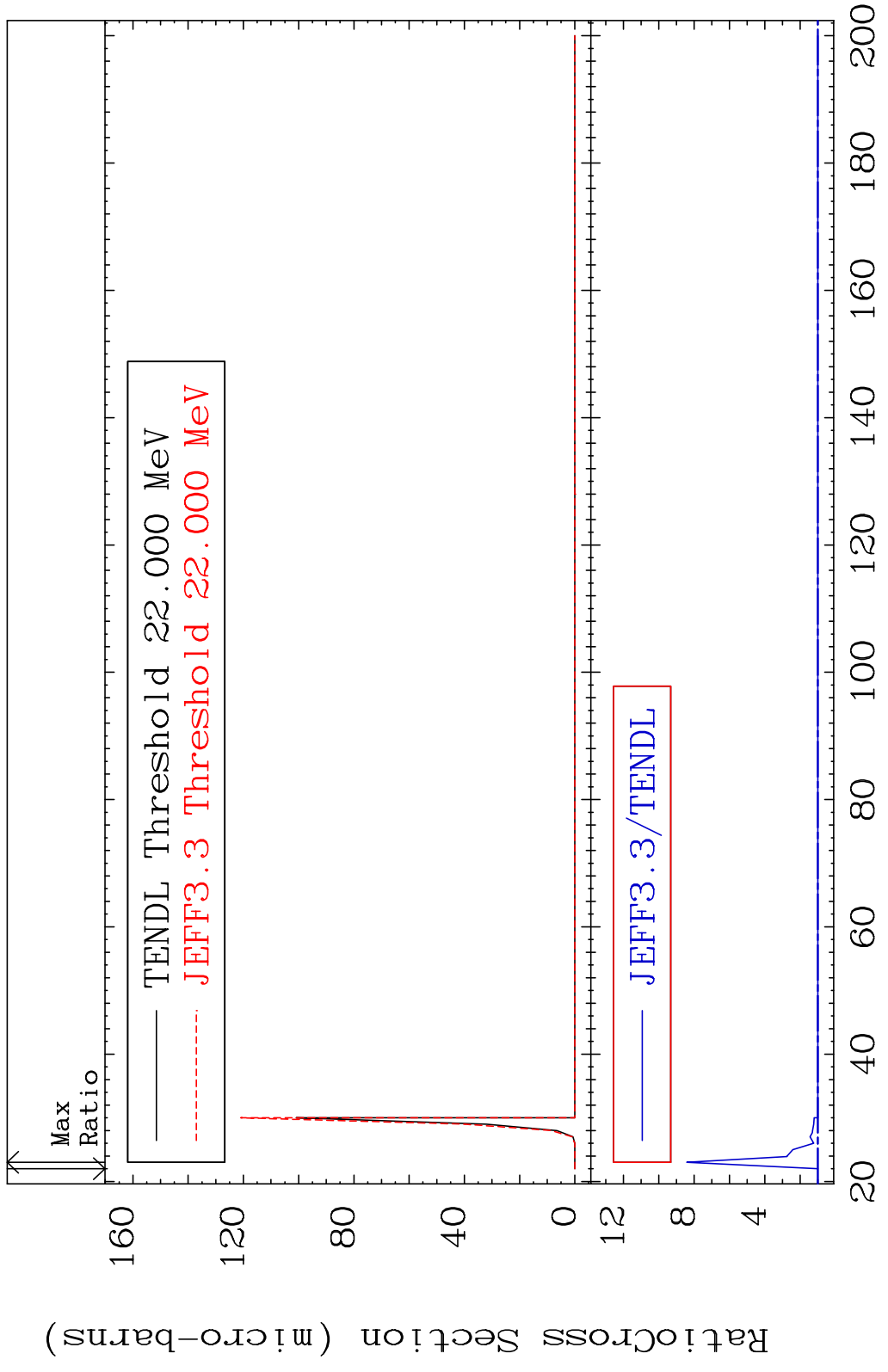


MAT 3131 (n, n') d:30-Zn-69g 31-Ga-71
 Radionuclide Production Cross Section Ratio 2207. %

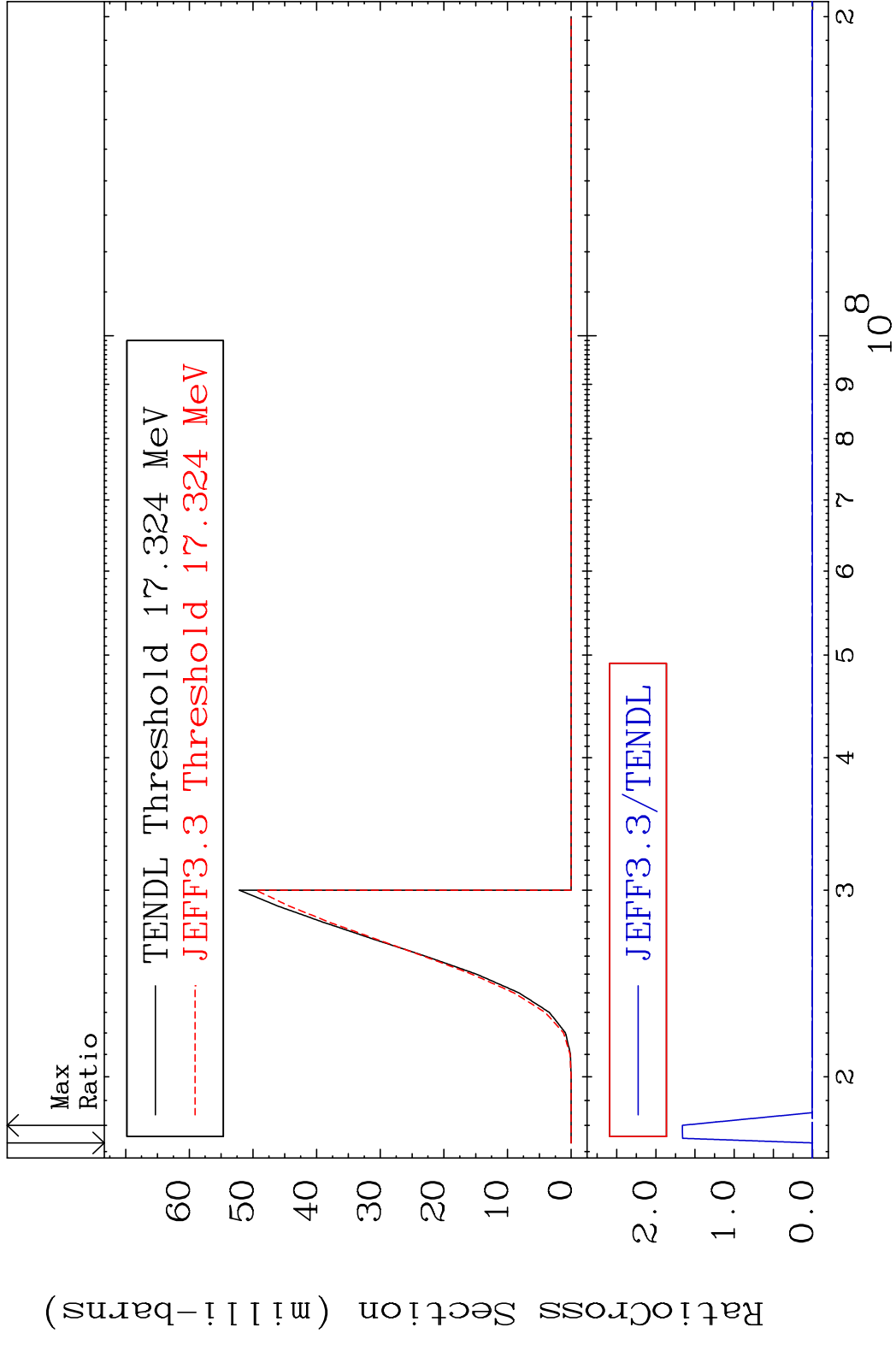


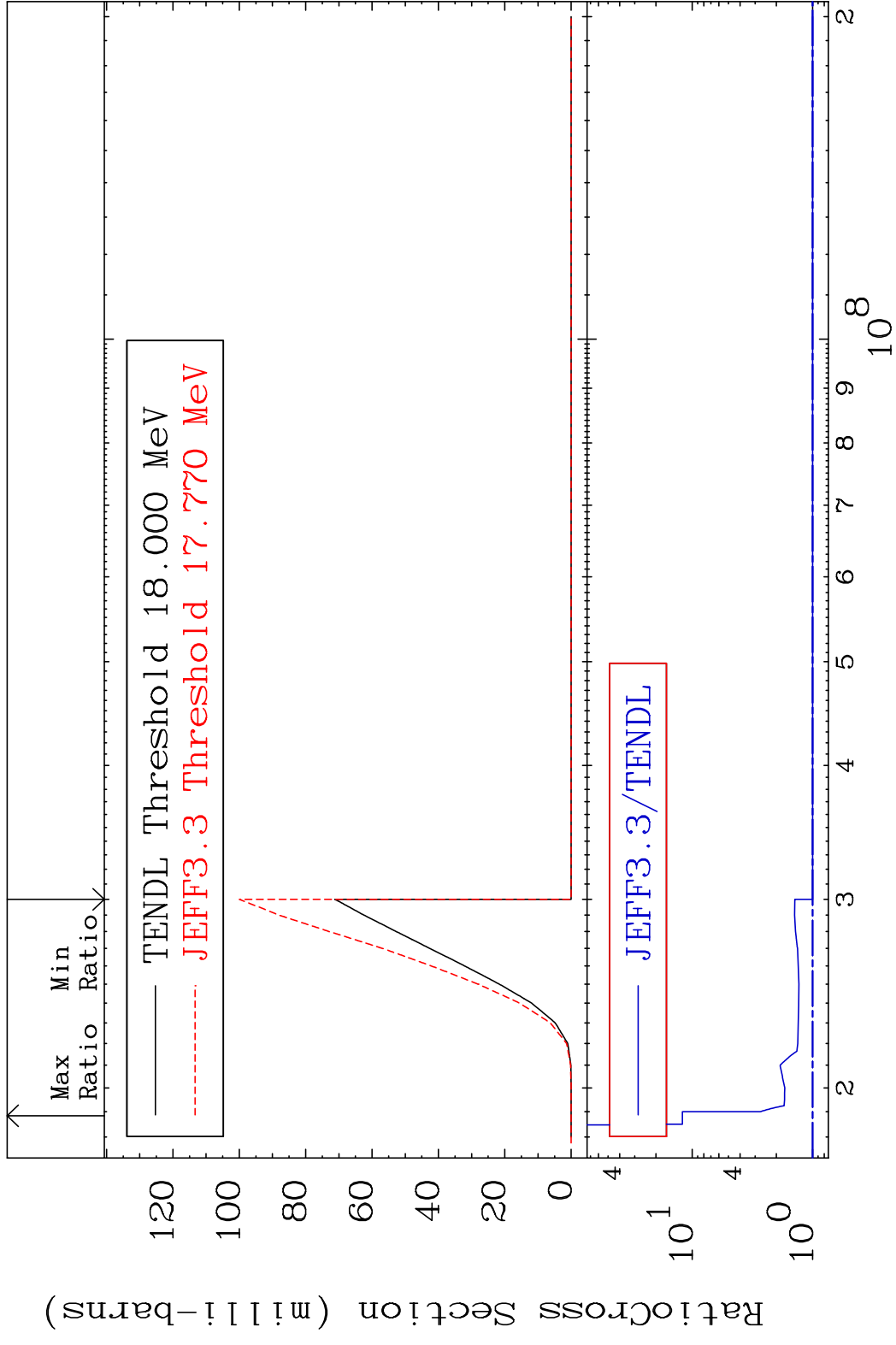




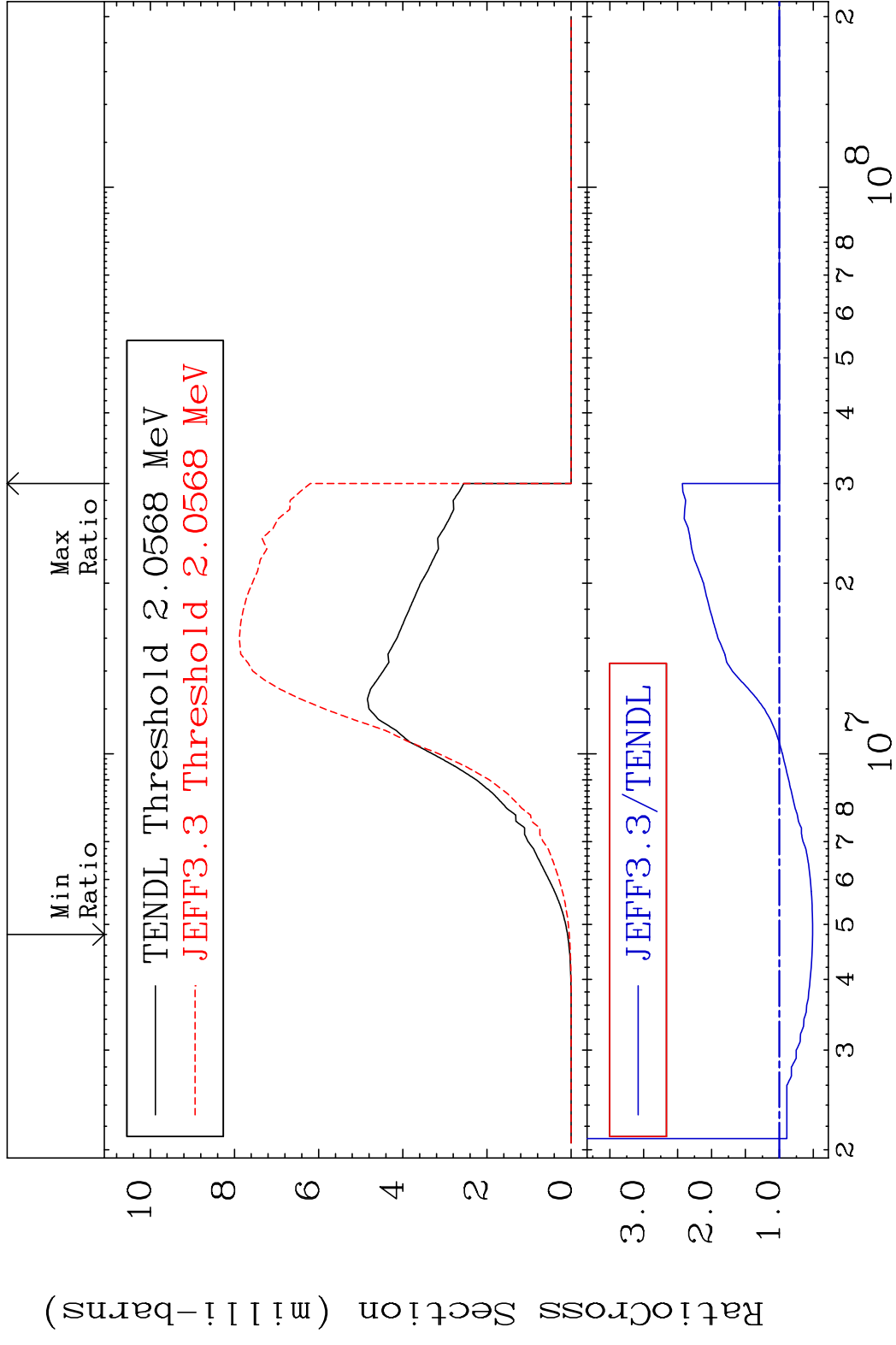


MAT 3131 (n,2n) p:30-Zn-69g 31-Ga-71
 Radionuclide Production Cross Section 100.00 % 9999. %

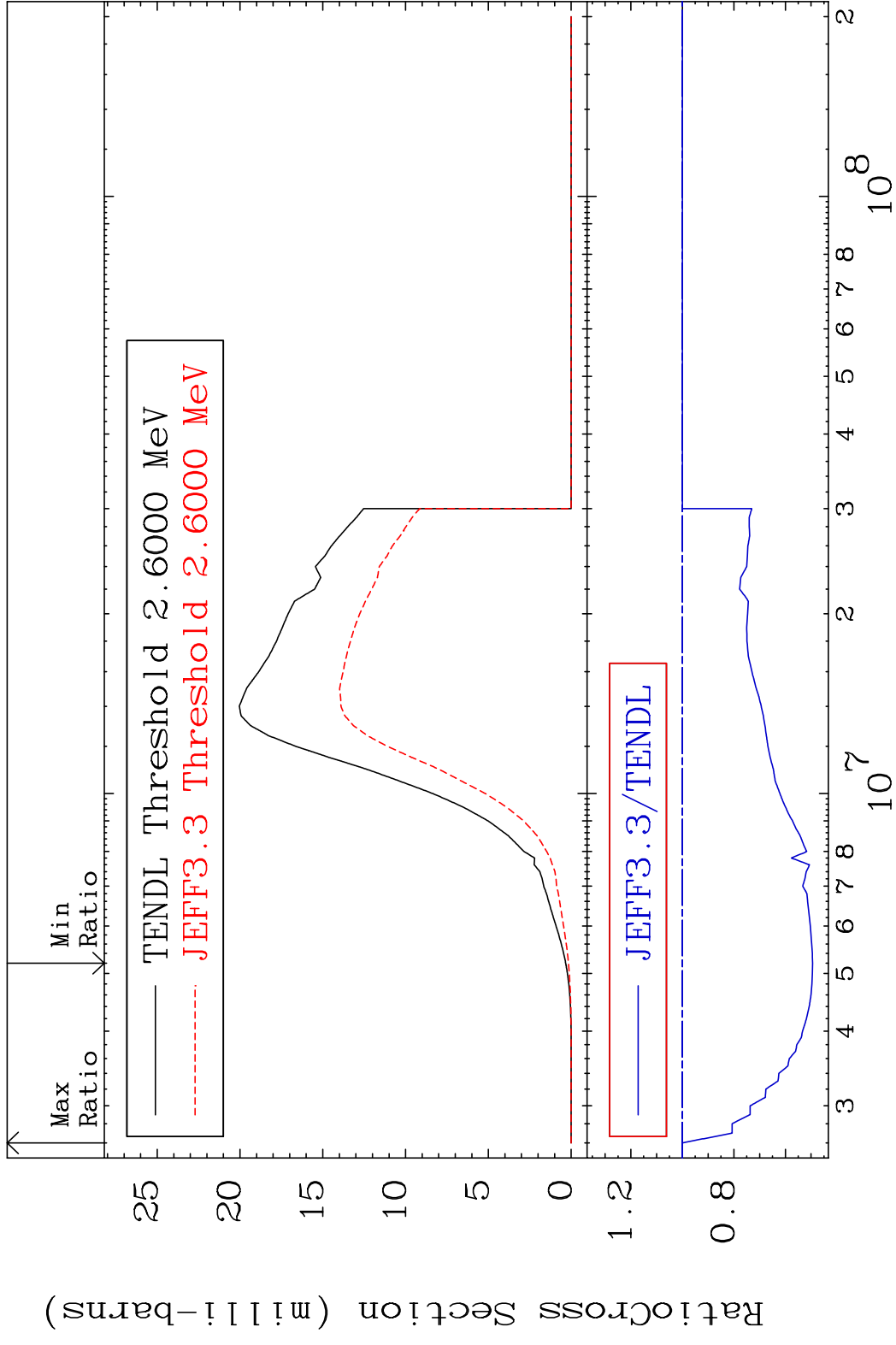




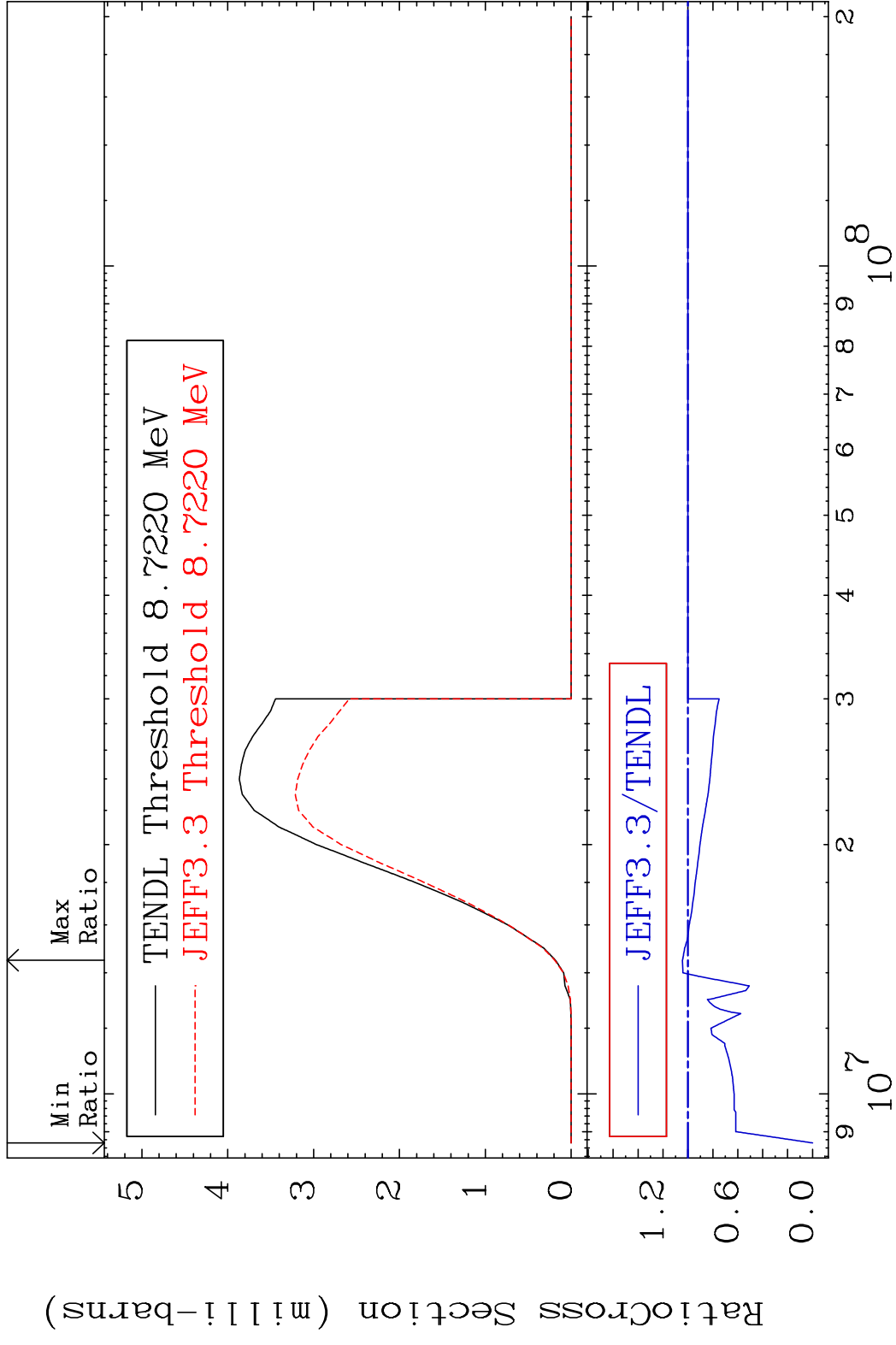
MAT 3131 (n, p):30-Zn-71g 31-Ga-71
 Radionuclide Production Cross Section 143.0 %



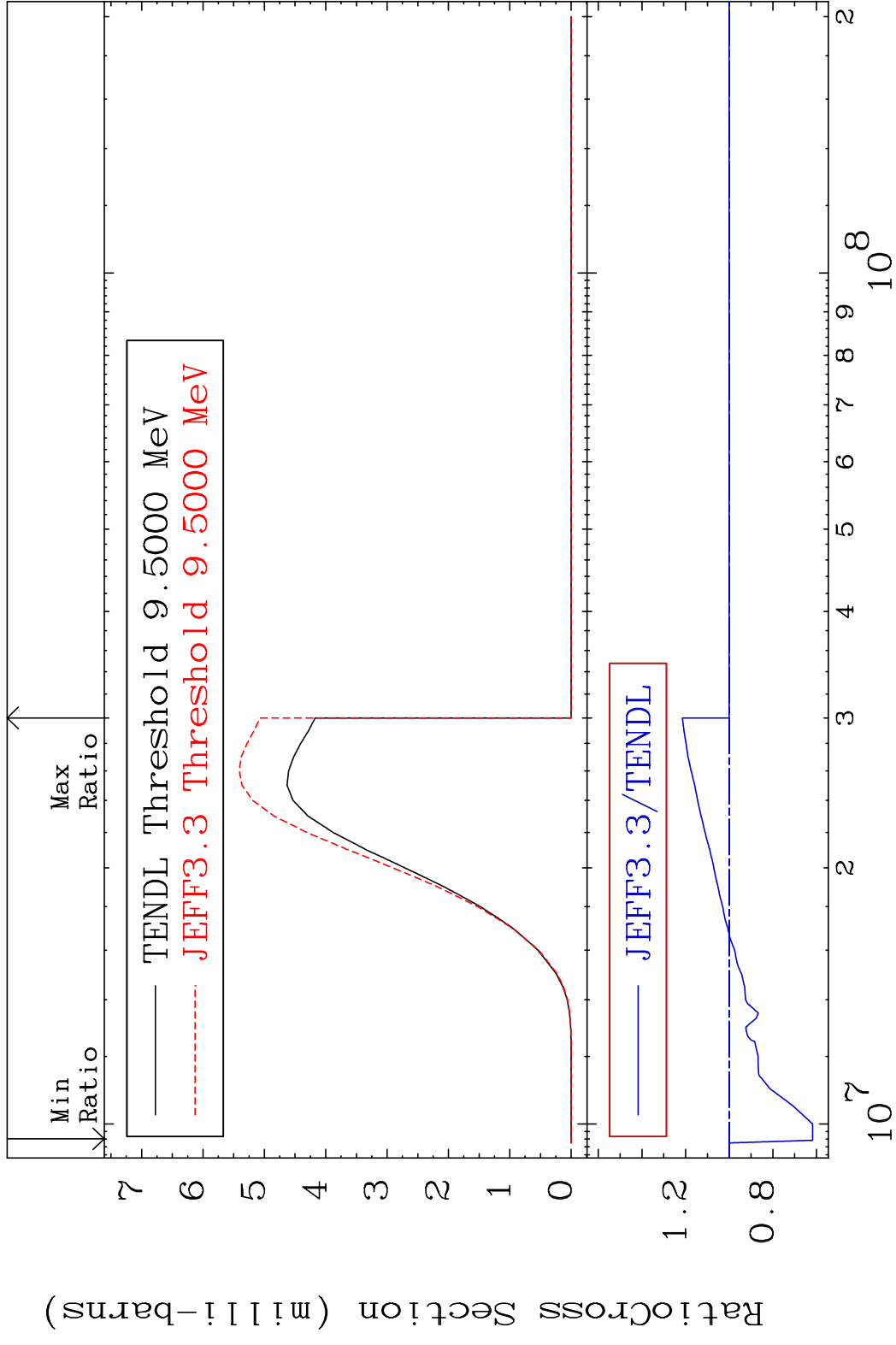
MAT 3131 (n,p):30-Zn-71m1 31-Ga-71
 Radionuclide Production Cross Section 0.000 %



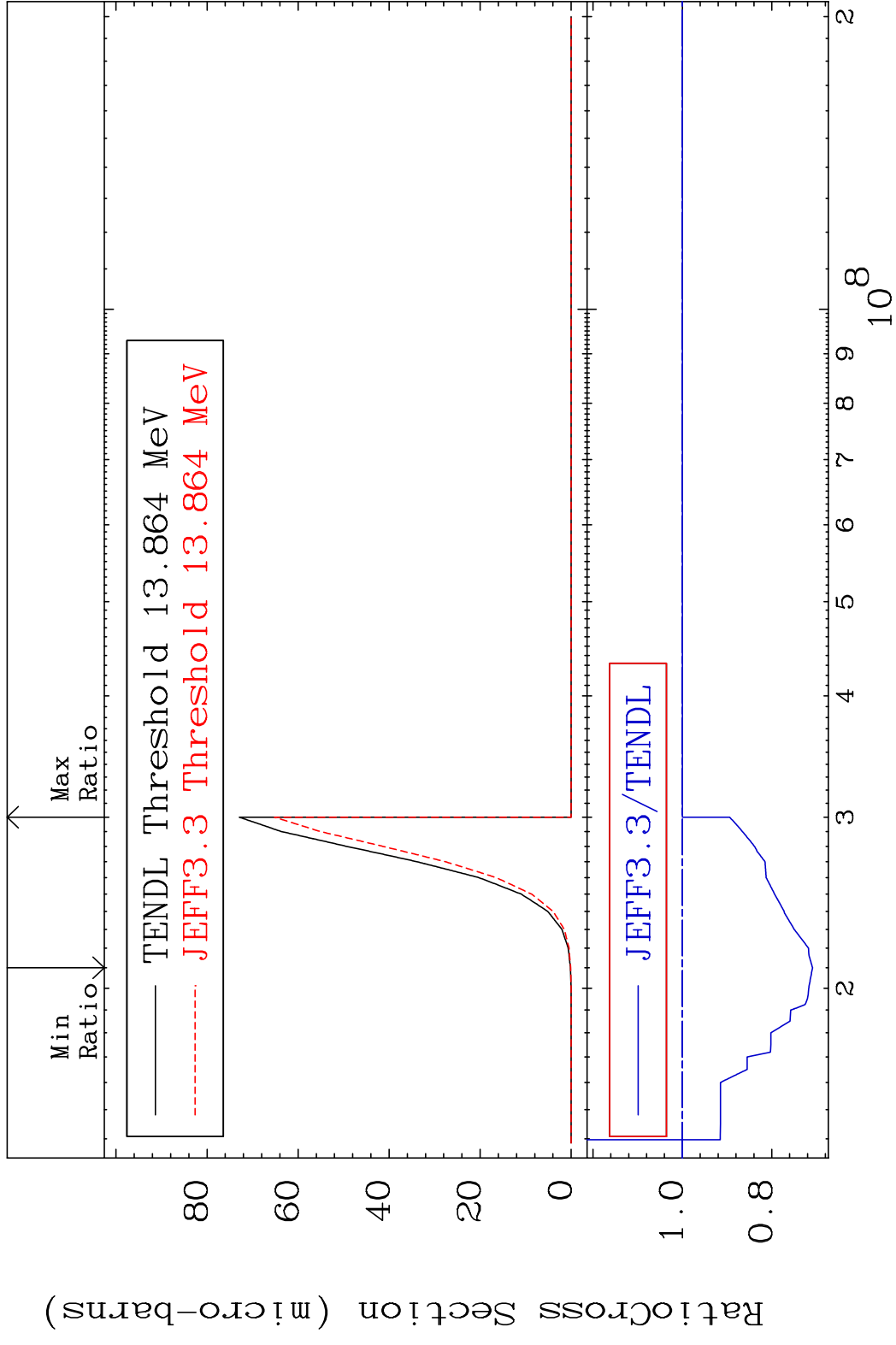
MAT 3131 (n, t):30-Zn-69g 31-Ga-71
 Radionuclide Production Cross Section 180.01 dth 4.467 %



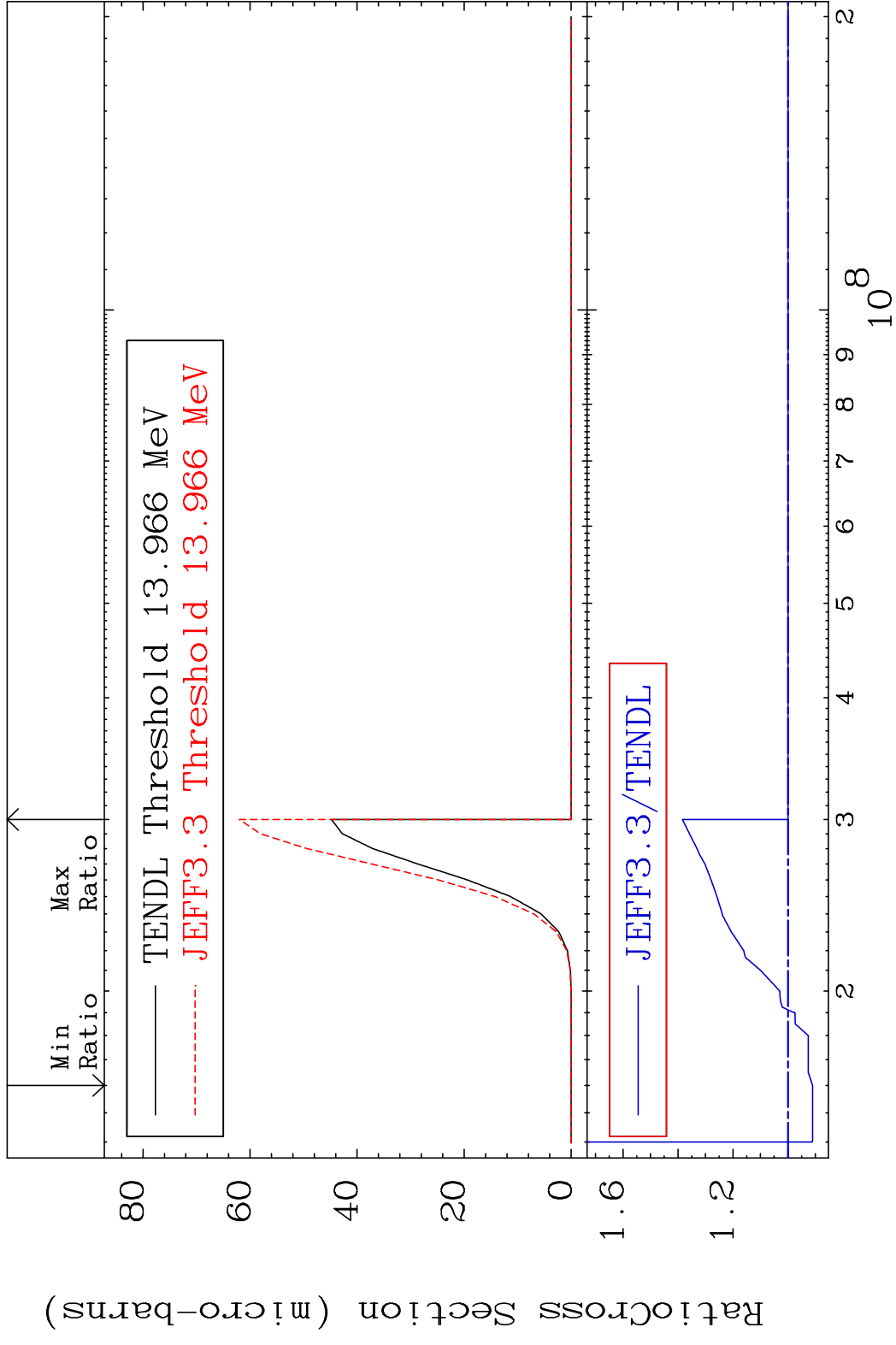
MAT 3131 (n, t):30-Zn-69m1 31-Ga-71
 Radionuclide Production Cross Section Ratio 21.49 %

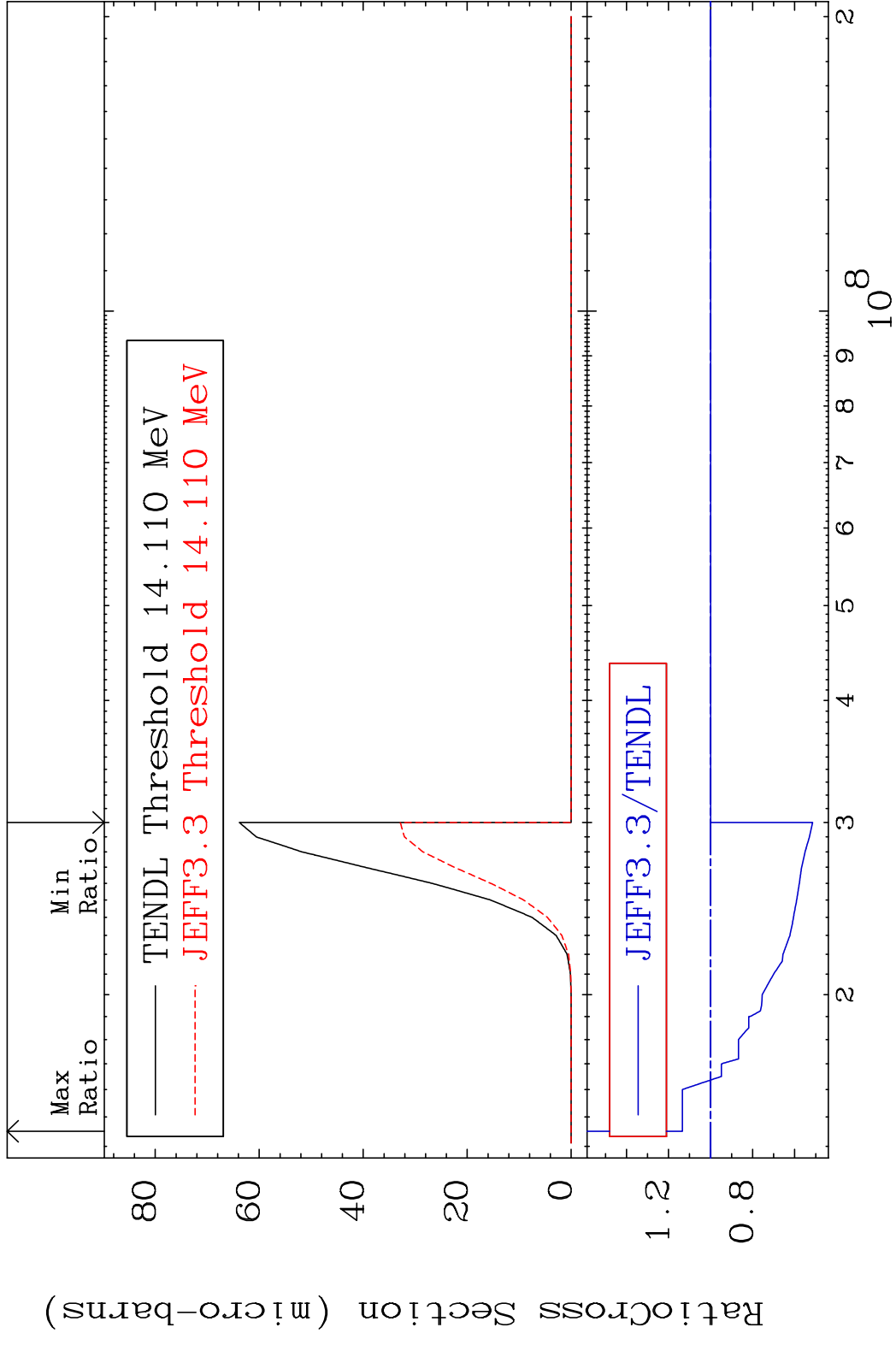


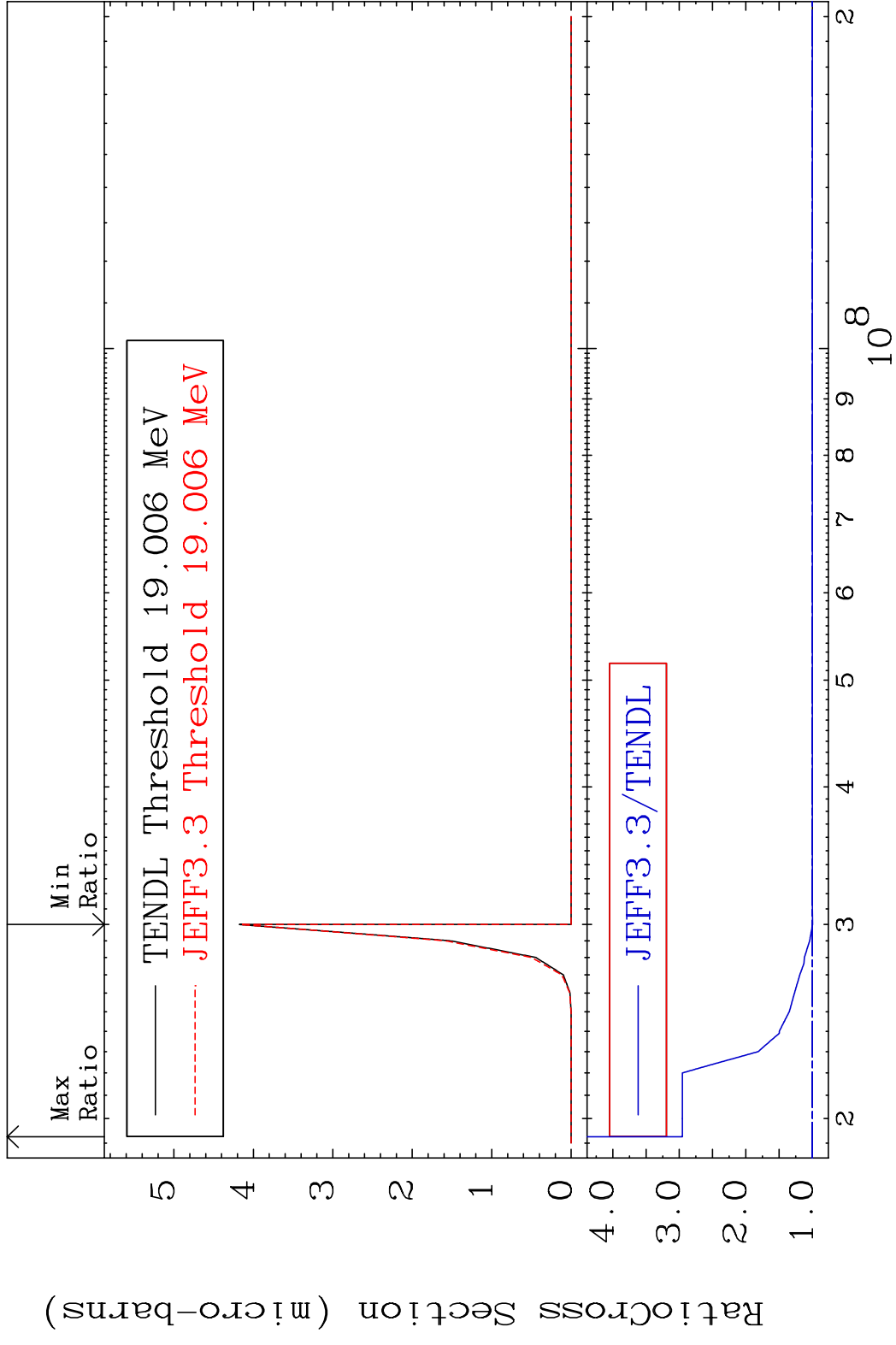
MAT 3131 (n,2p):29-Cu-70g 31-Ga-71
 Radionuclide Production Cross Section 0.000 %



MAT 3131 (n,2p):29-Cu-70m1 31-Ga-71
 Radionuclide Production Cross Section 38.41 %







MAT 3131 (n,p) t:29-Cu-68m3 31-Ga-71
 Radionuclide Production Cross Section 830.7 %

