

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

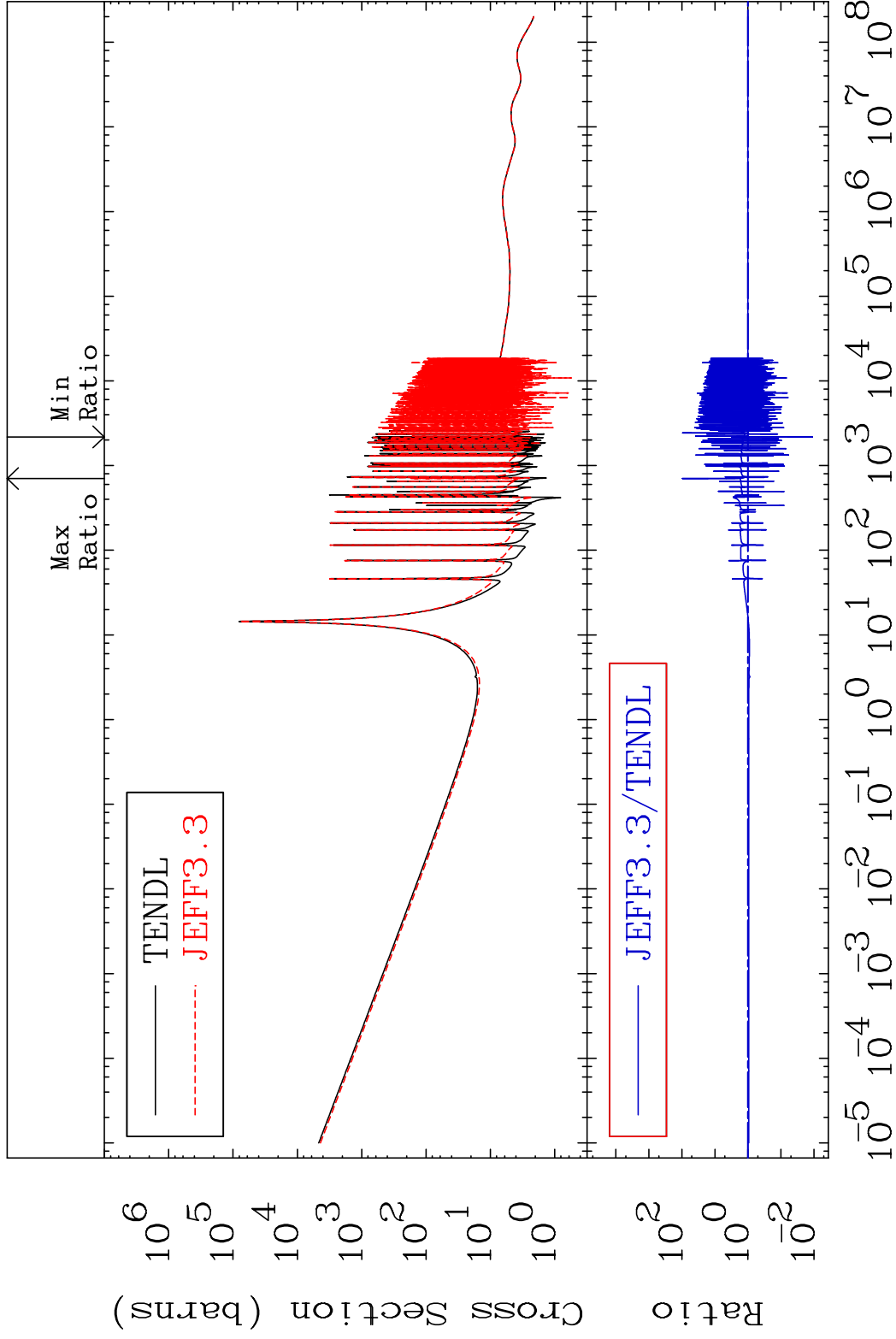
Press Mouse Button to Start

MAT 5446

Total

54-Xe-131

Cross Section -98.90 To 9576. %



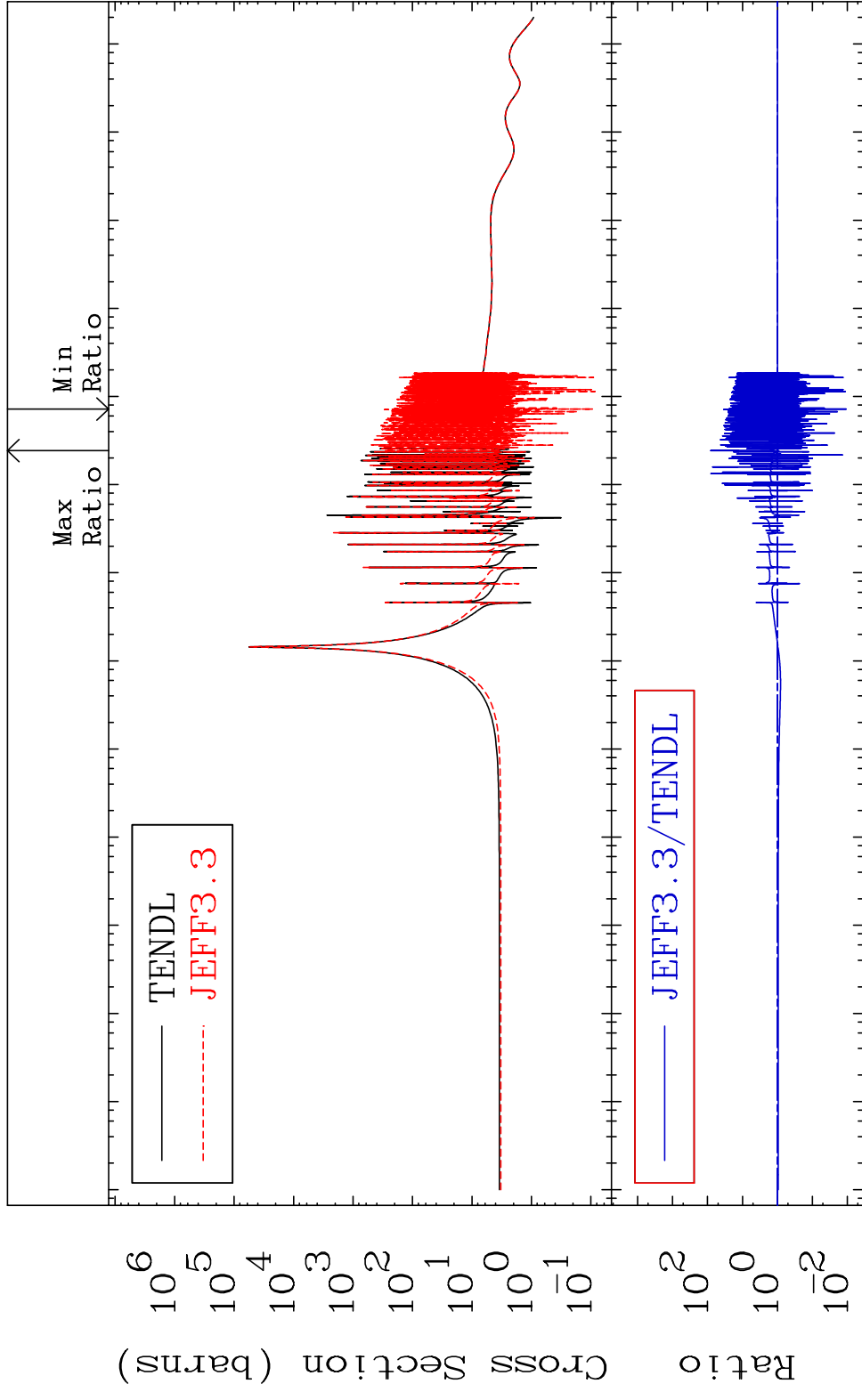
1

Incident Energy (eV)

54-Xe-131

MAT 5446

Elastic Cross Section
54-Xe-131
-98.93 To 8010. %



2

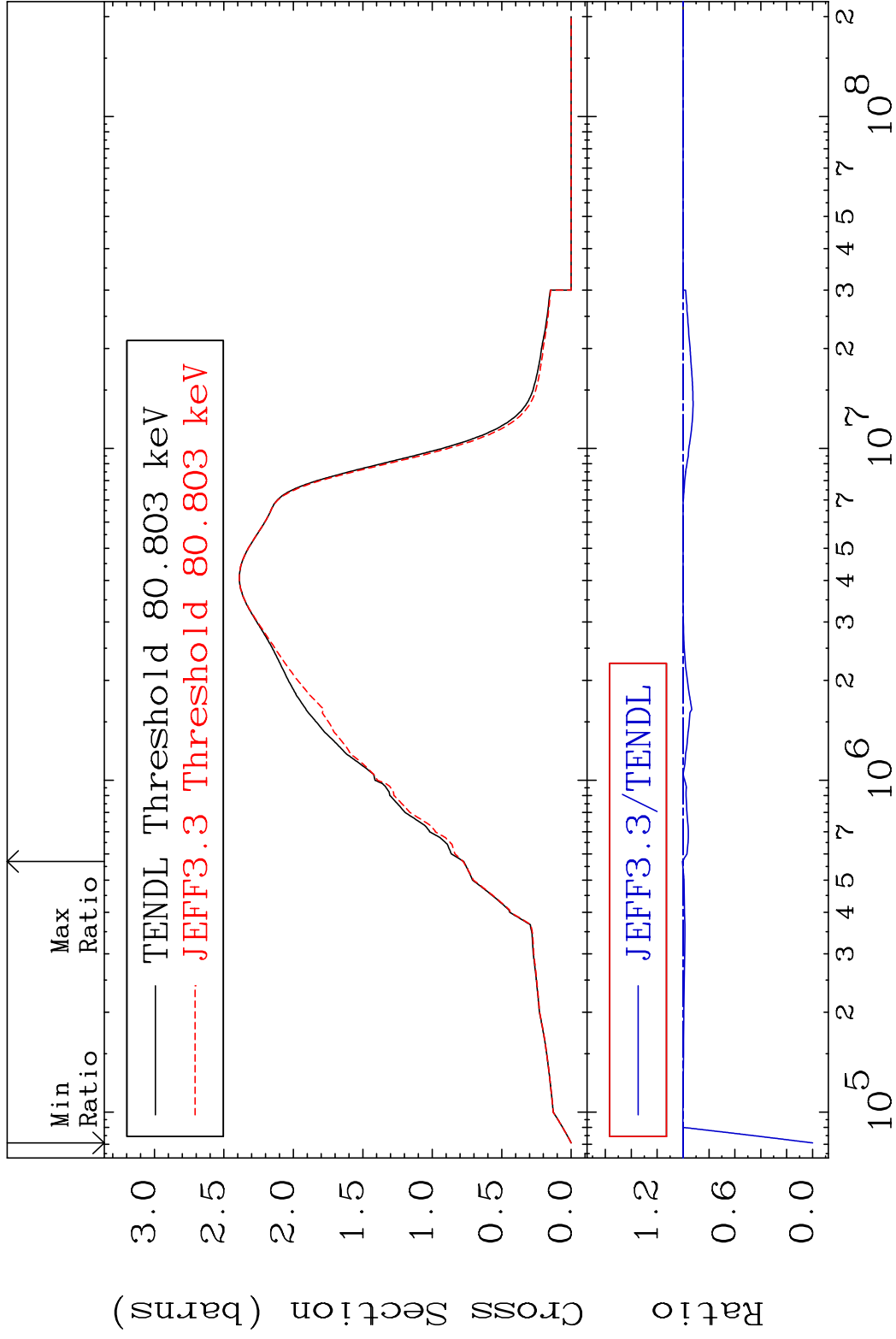
Incident Energy (eV) 54-Xe-131

MAT 5446

Inelastic

54-Xe-131

Cross Section -100.0 To 0.554 %



3

Incident Energy (eV)

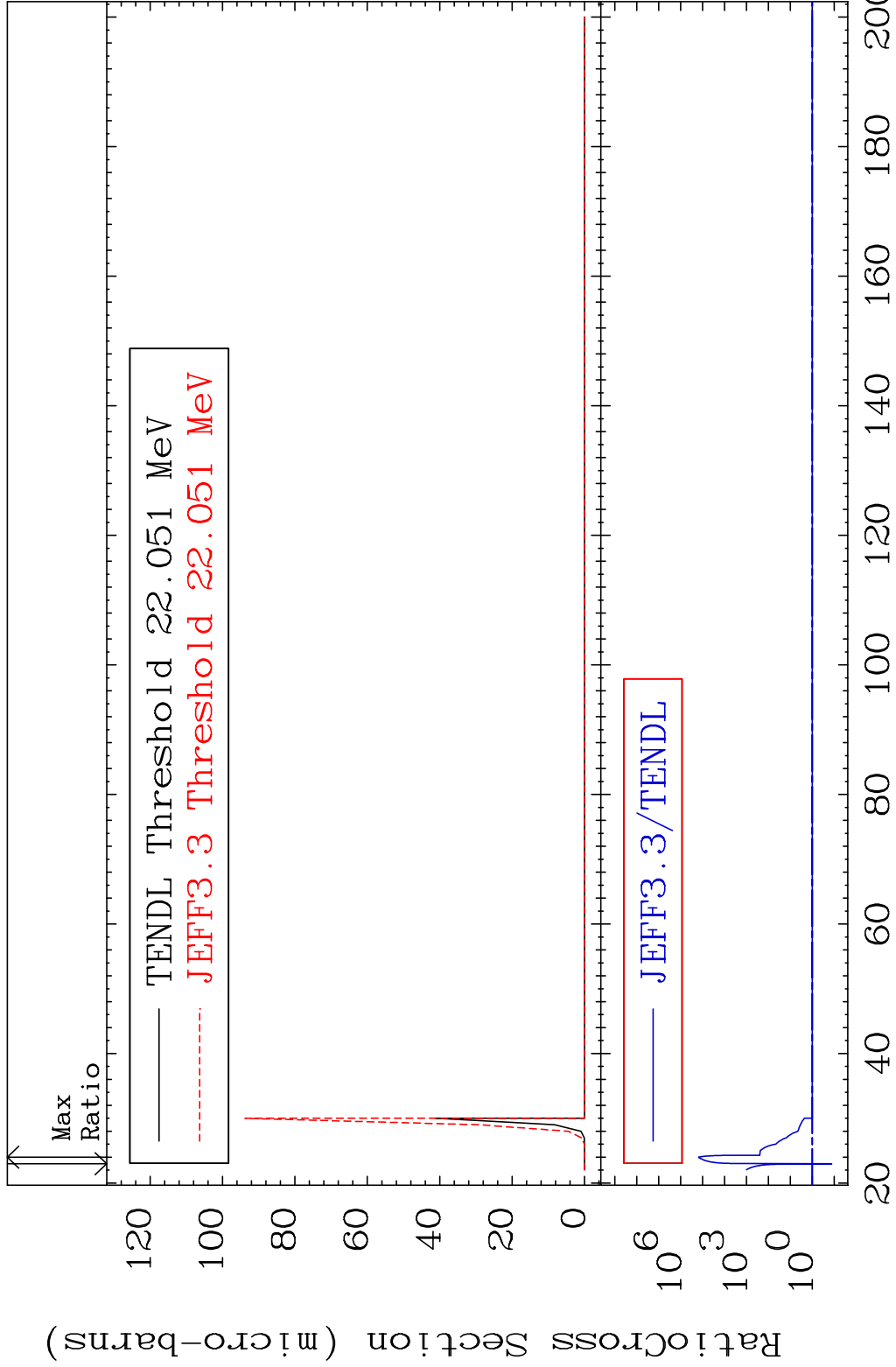
54-Xe-131

MAT 5446

(n,2n) d

54-Xe-131

Cross Section -86.91 To 9999. %

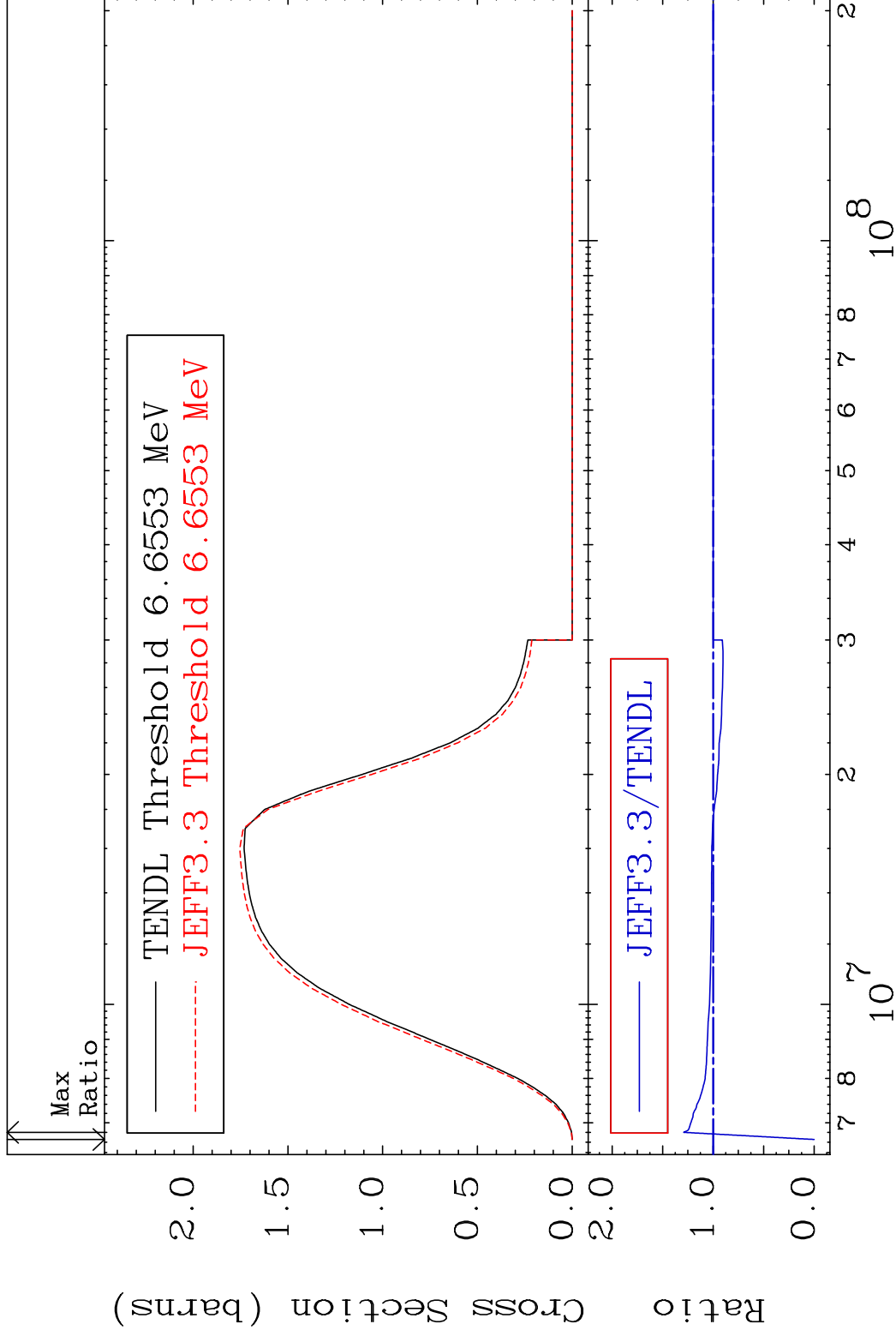


MAT 5446

(n,2n)

54-Xe-131

Cross Section -100.0 To 29.14 %



5

Incident Energy (eV)

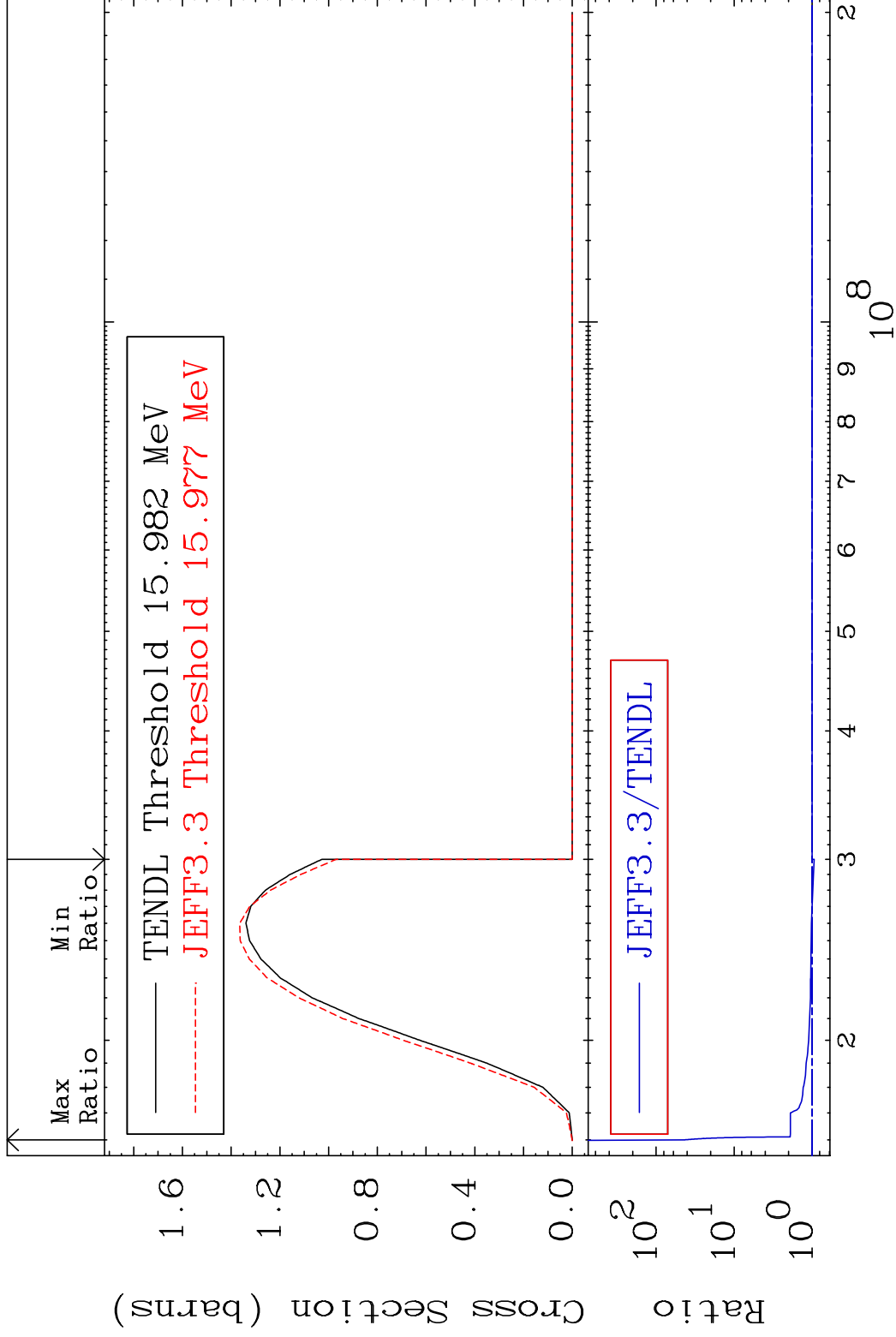
54-Xe-131

MAT 5446

(n,3n)

54-Xe-131

Cross Section -5.710 To 4339. %

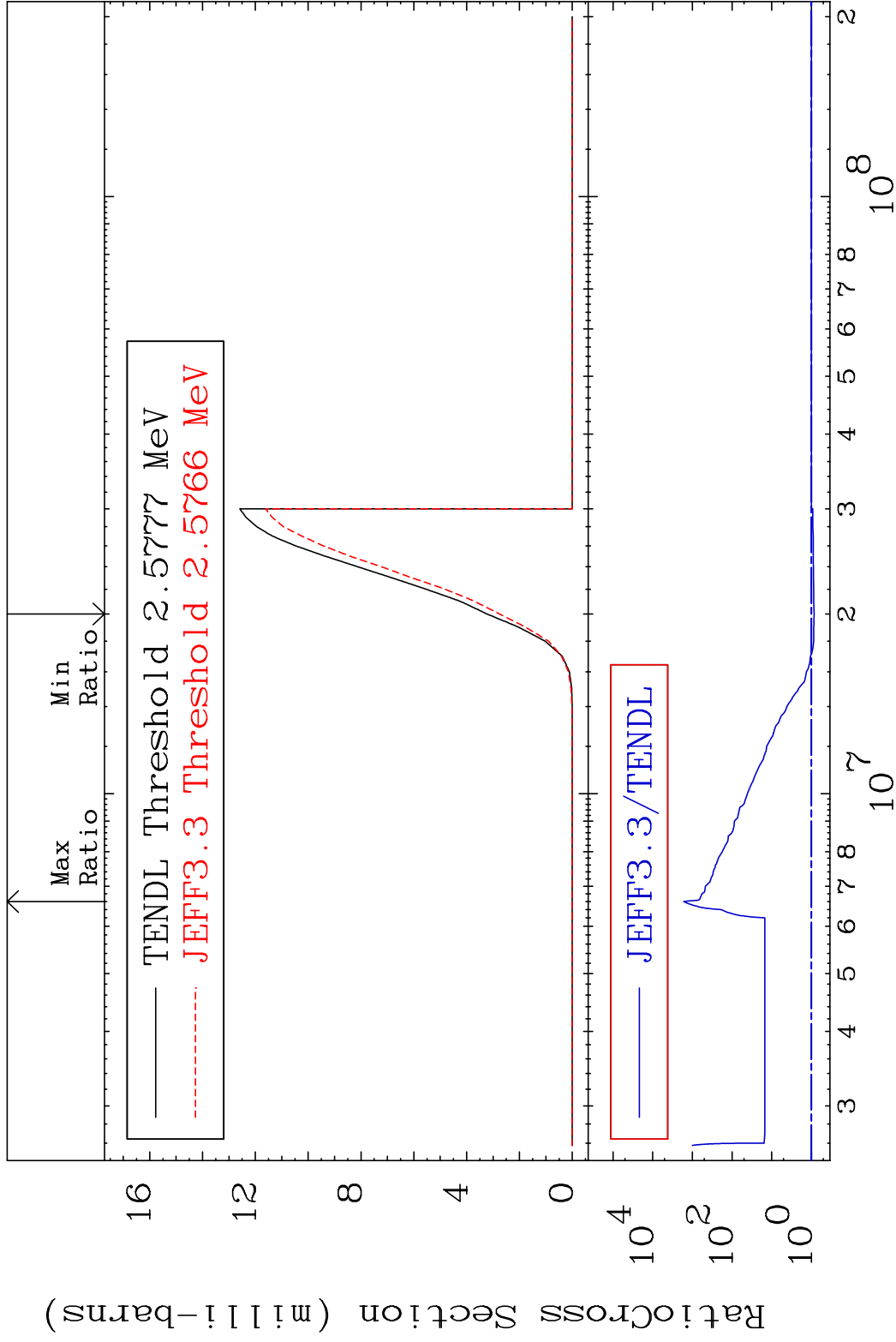


MAT 5446

(n, n') α

54-Xe-131

Cross Section -14.62 To 9999. %



7

Incident Energy (eV)

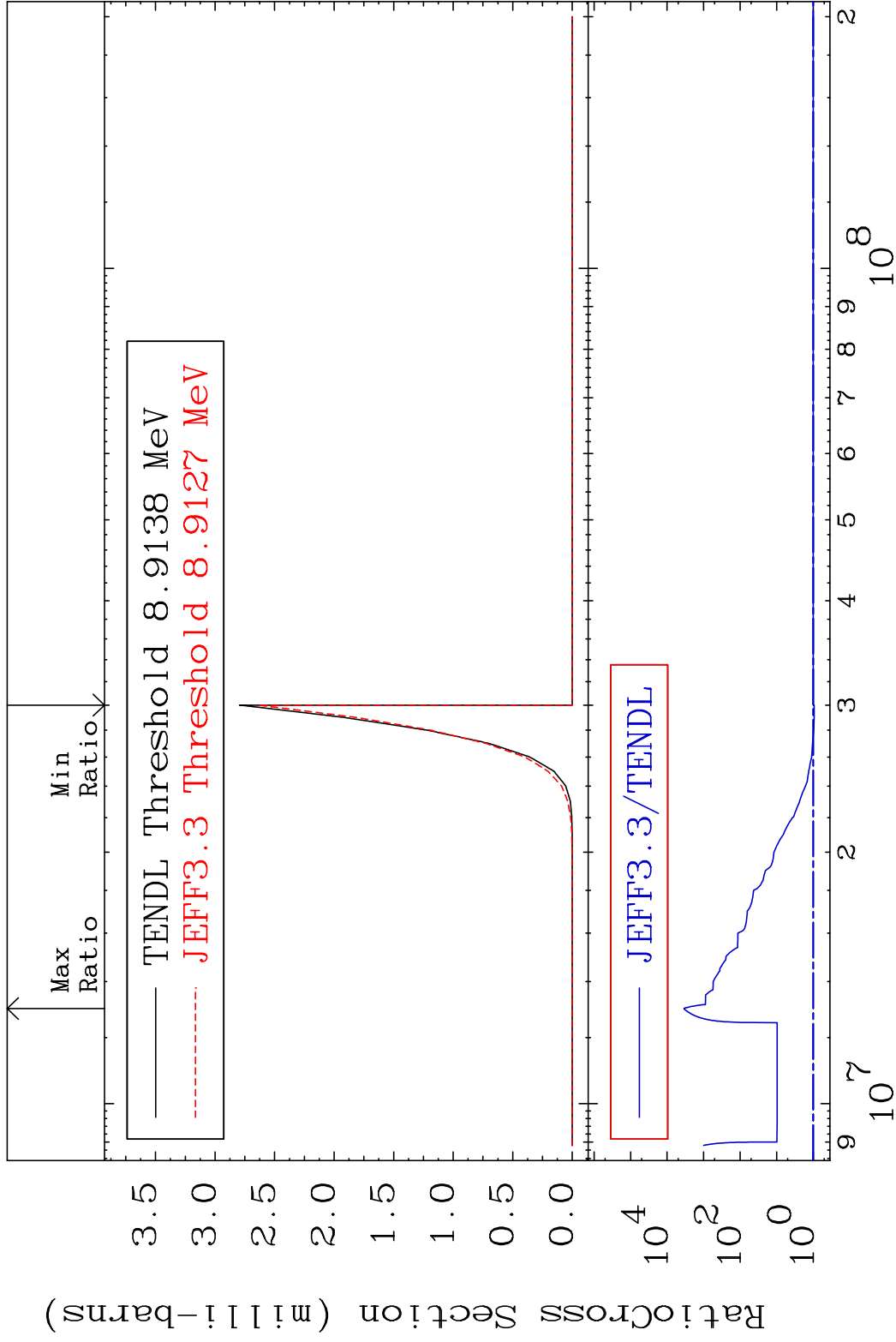
54-Xe-131

MAT 5446

(n,2n) α

54-Xe-131

Cross Section -5.410 To 9999. %



8

Incident Energy (eV)

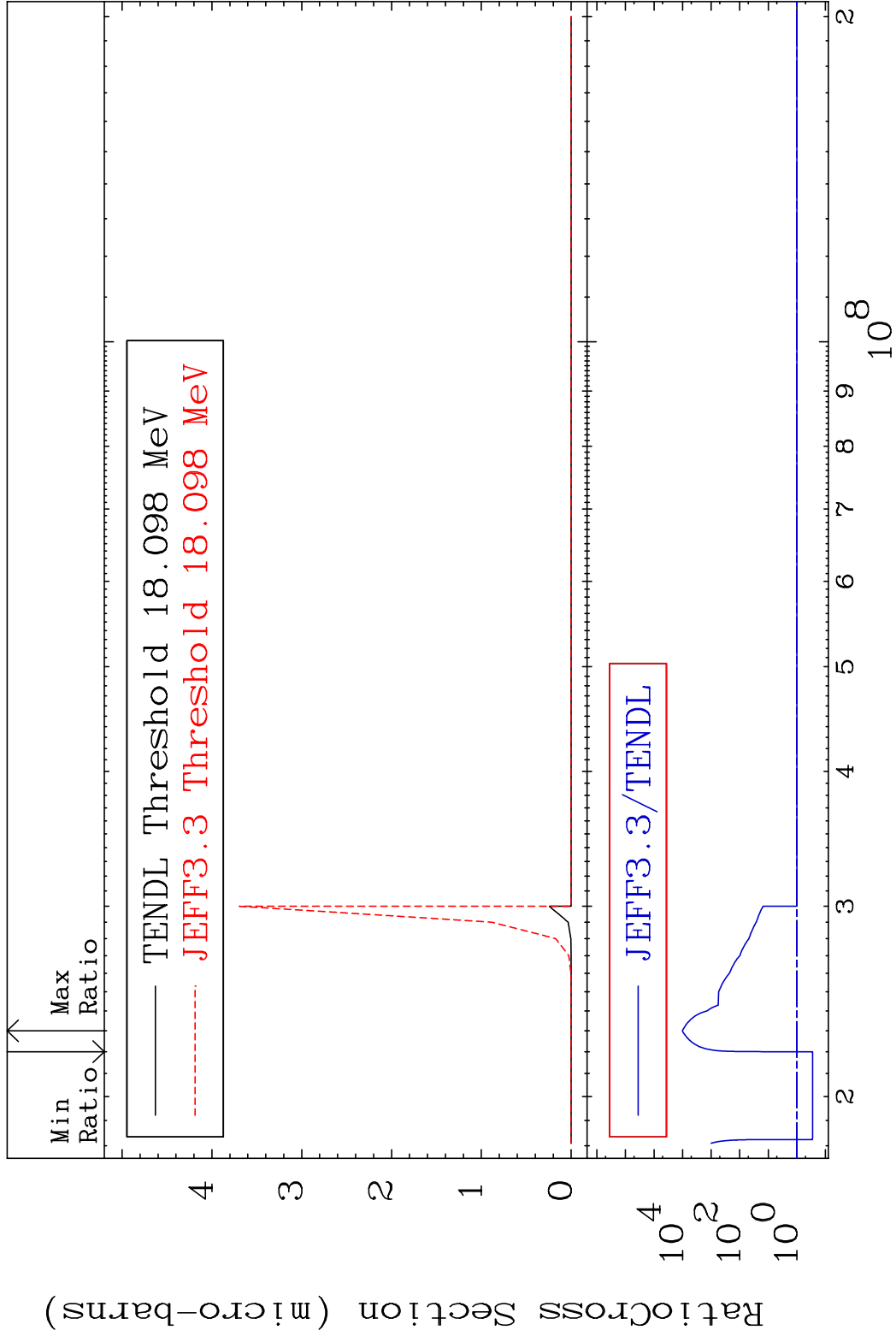
54-Xe-131

MAT 5446

(n,3n) α

54-Xe-131

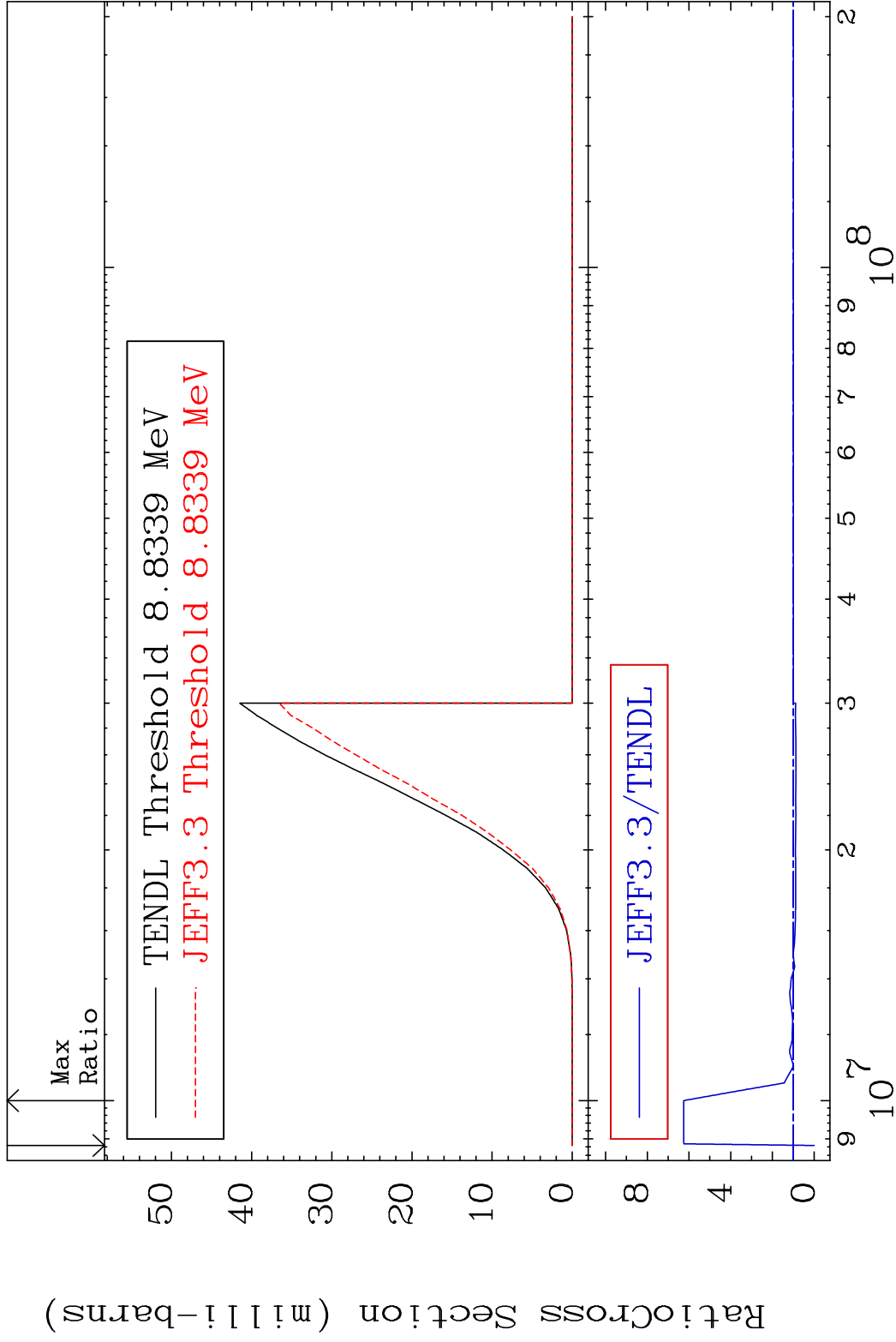
Cross Section -71.73 To 9999. %



MAT 5446

(n, n') p 54-Xe-131

Cross Section -100.0 To 525.5 %



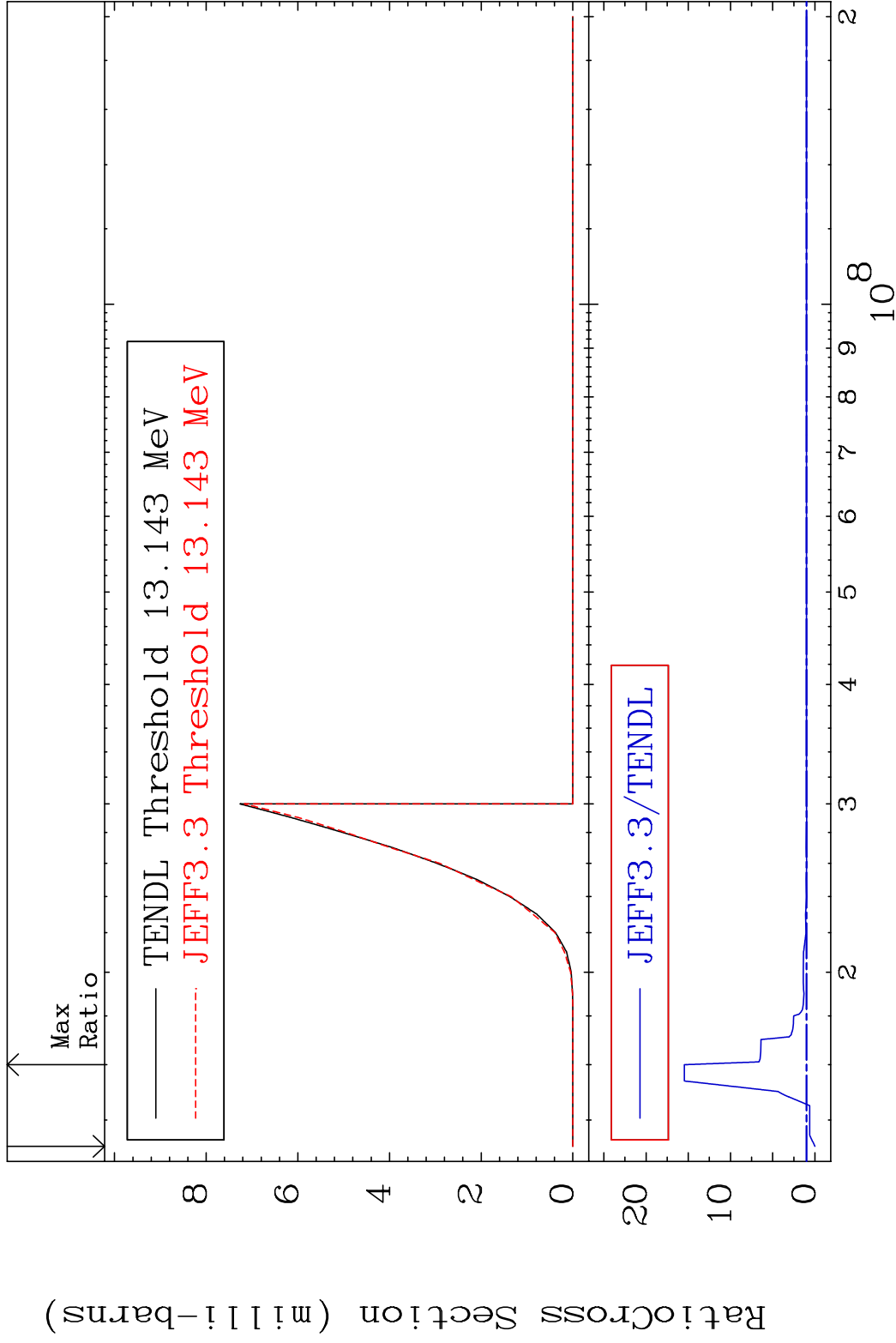
10 Incident Energy (eV) 54-Xe-131

MAT 5446

(n, n') d

54-Xe-131

Cross Section -100.0 To 1447. %

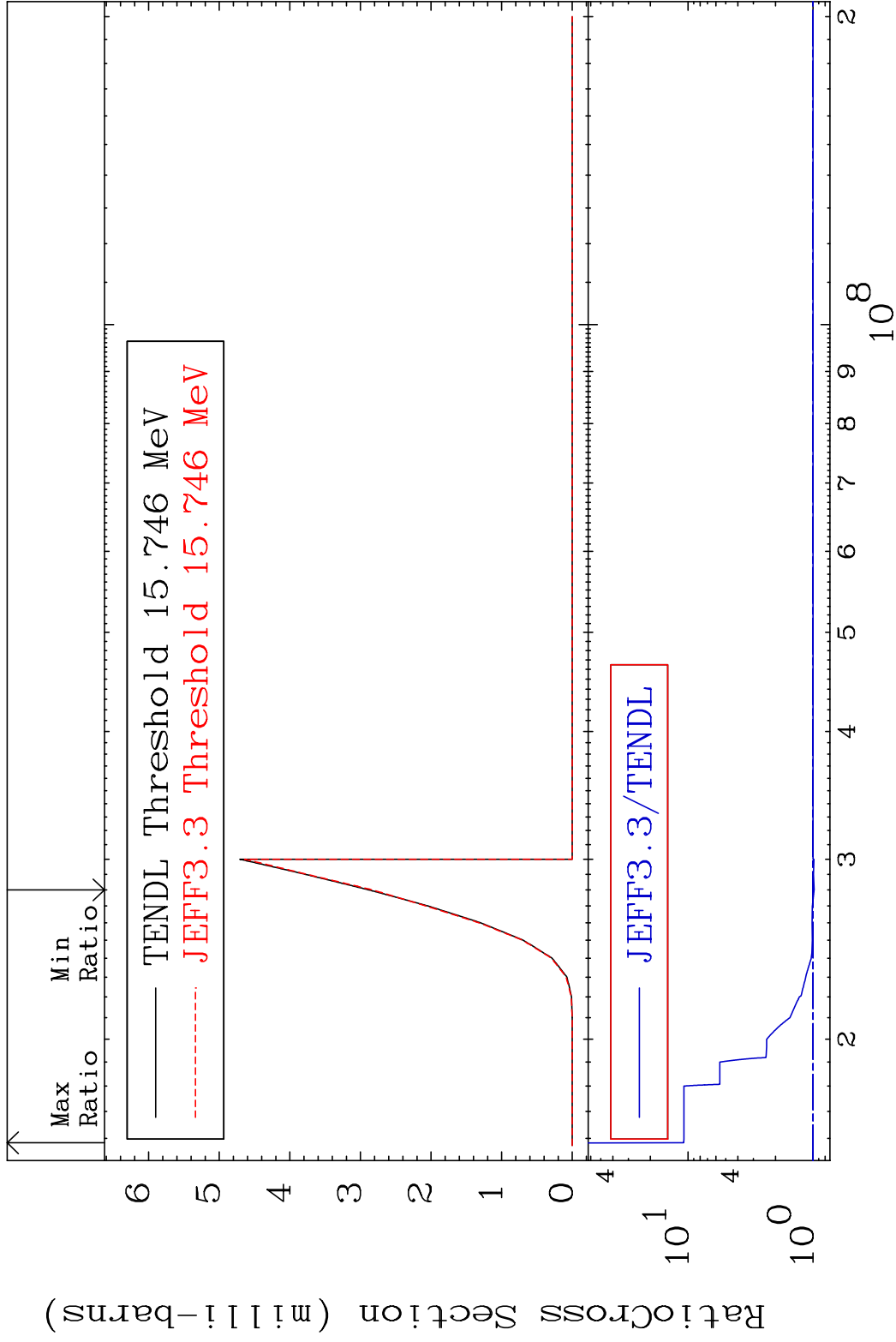


MAT 5446

(n, n') t

54-Xe-131

Cross Section -1.820 To 984.8 %

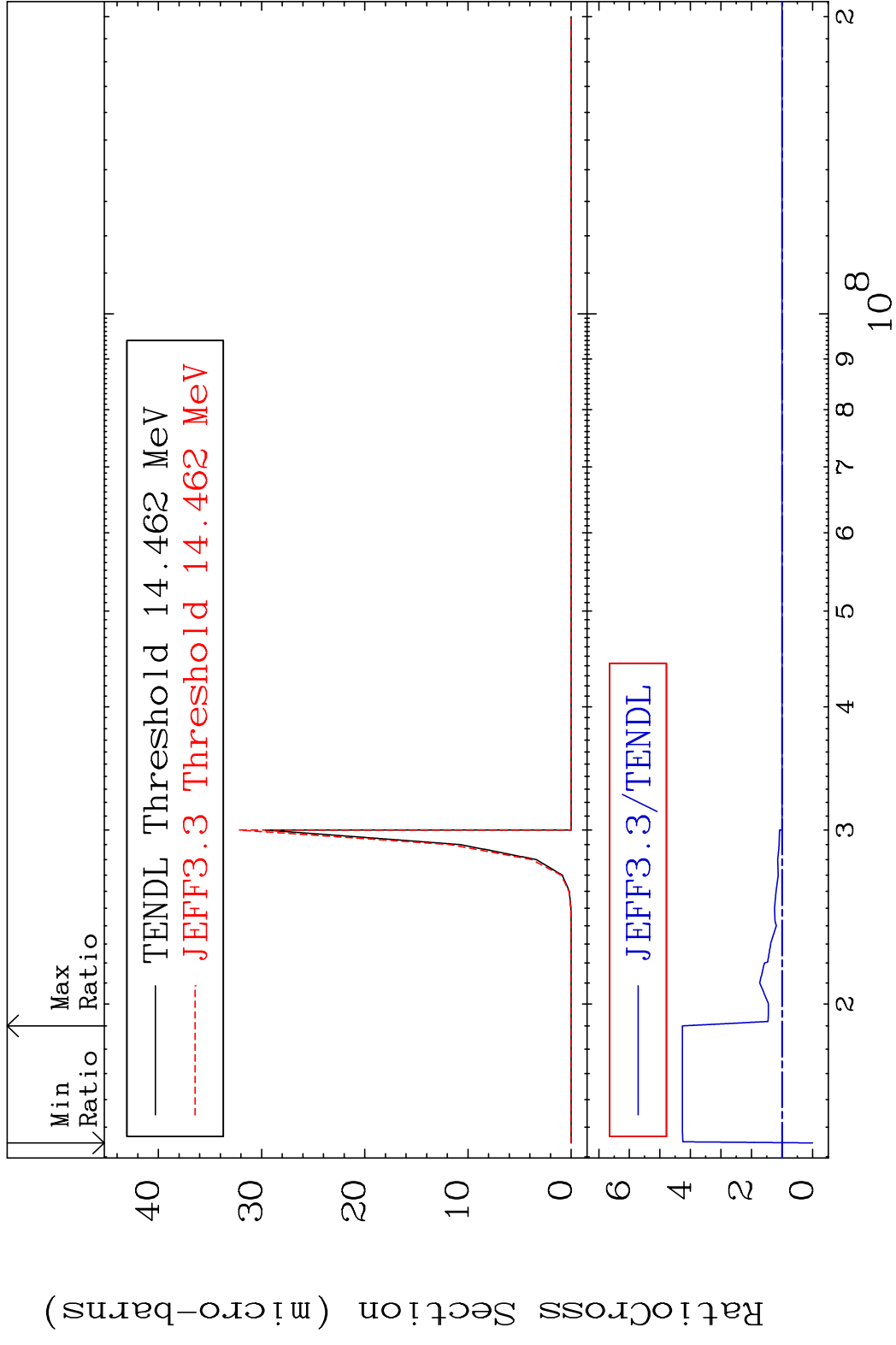


12

Incident Energy (eV)

54-Xe-131

MAT 5446 (n,n') He-3 54-Xe-131
 Cross Section -100.0 To 326.4 %

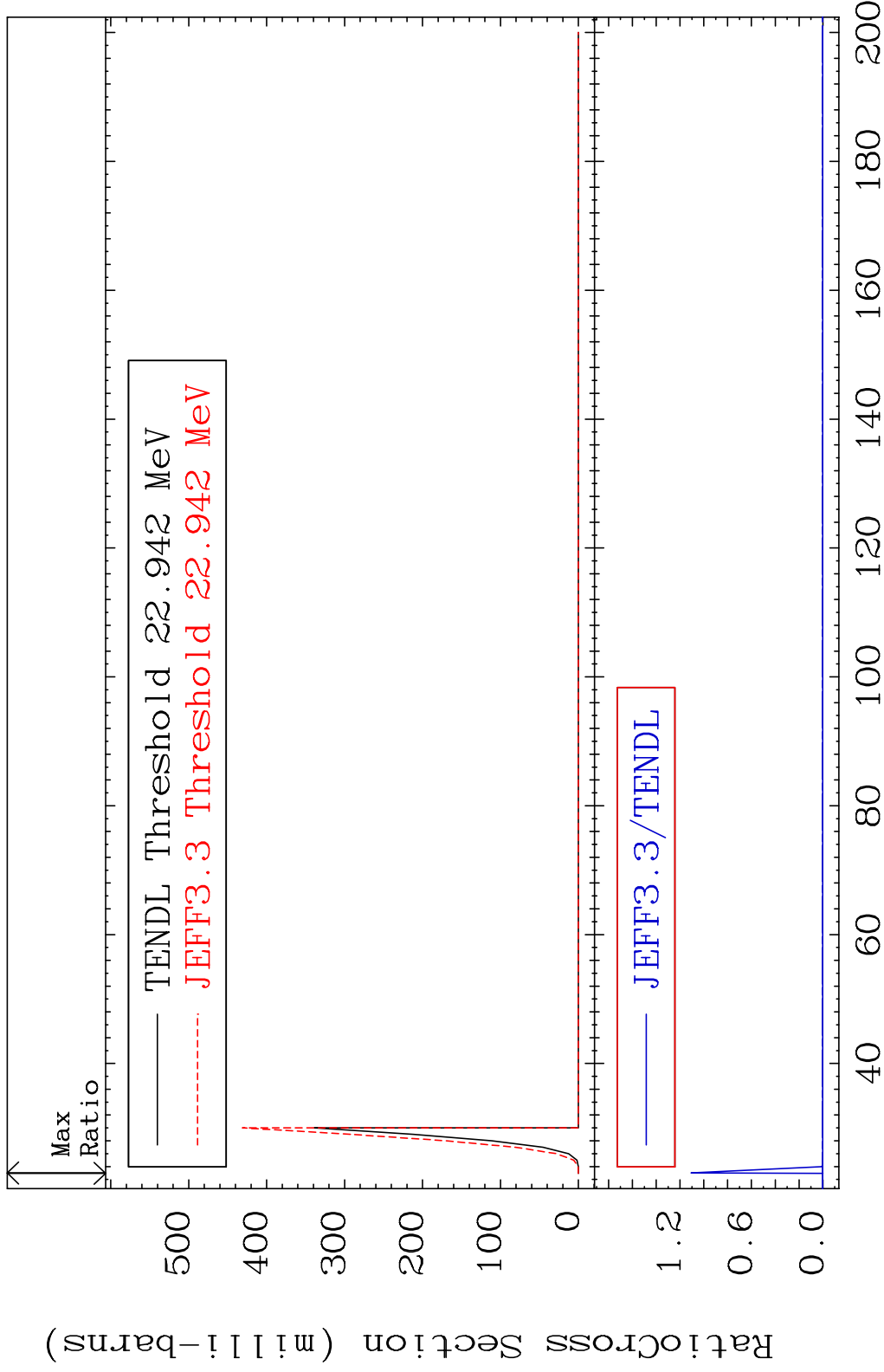


MAT 5446

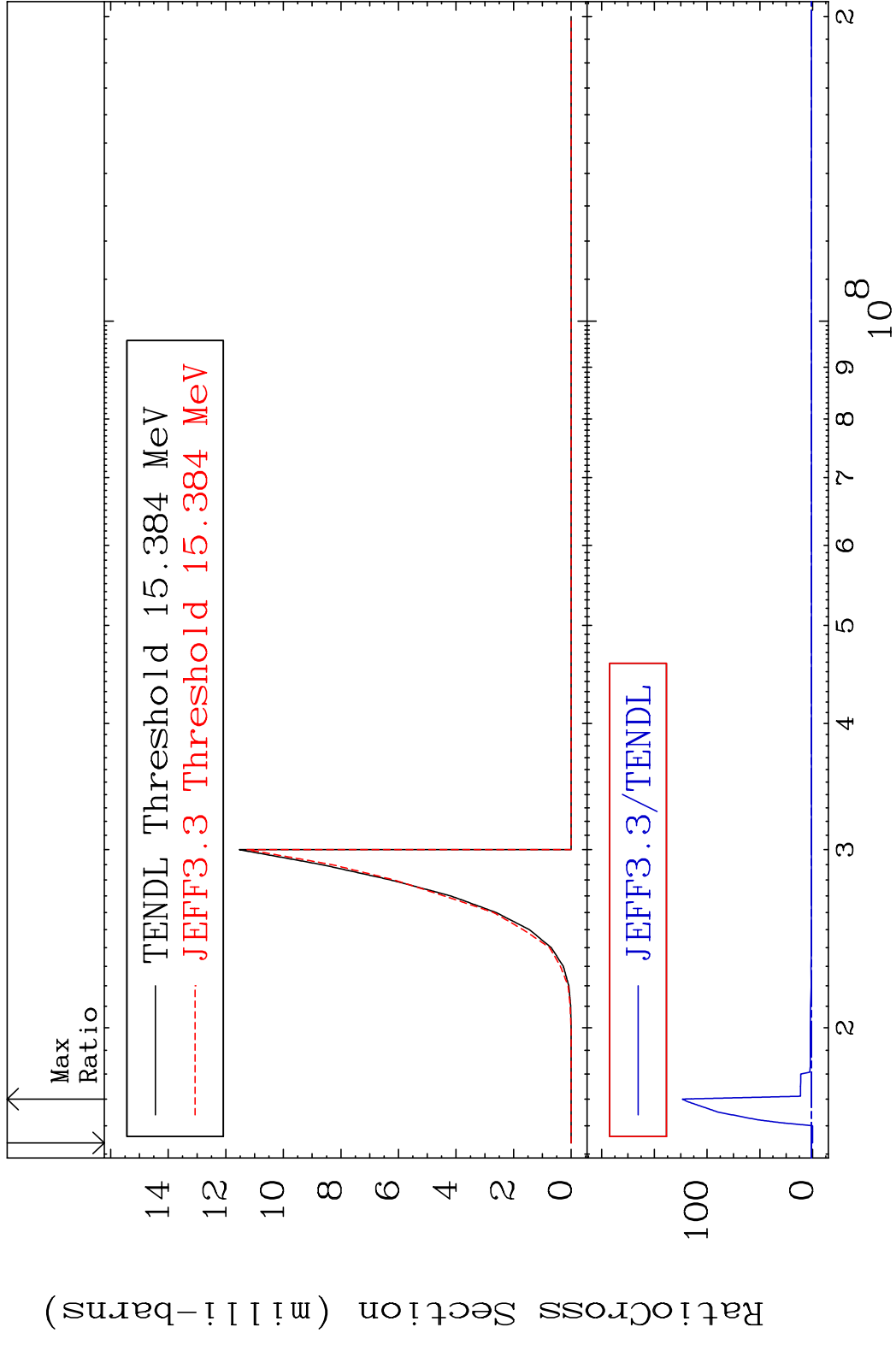
(n,4n)

54-Xe-131

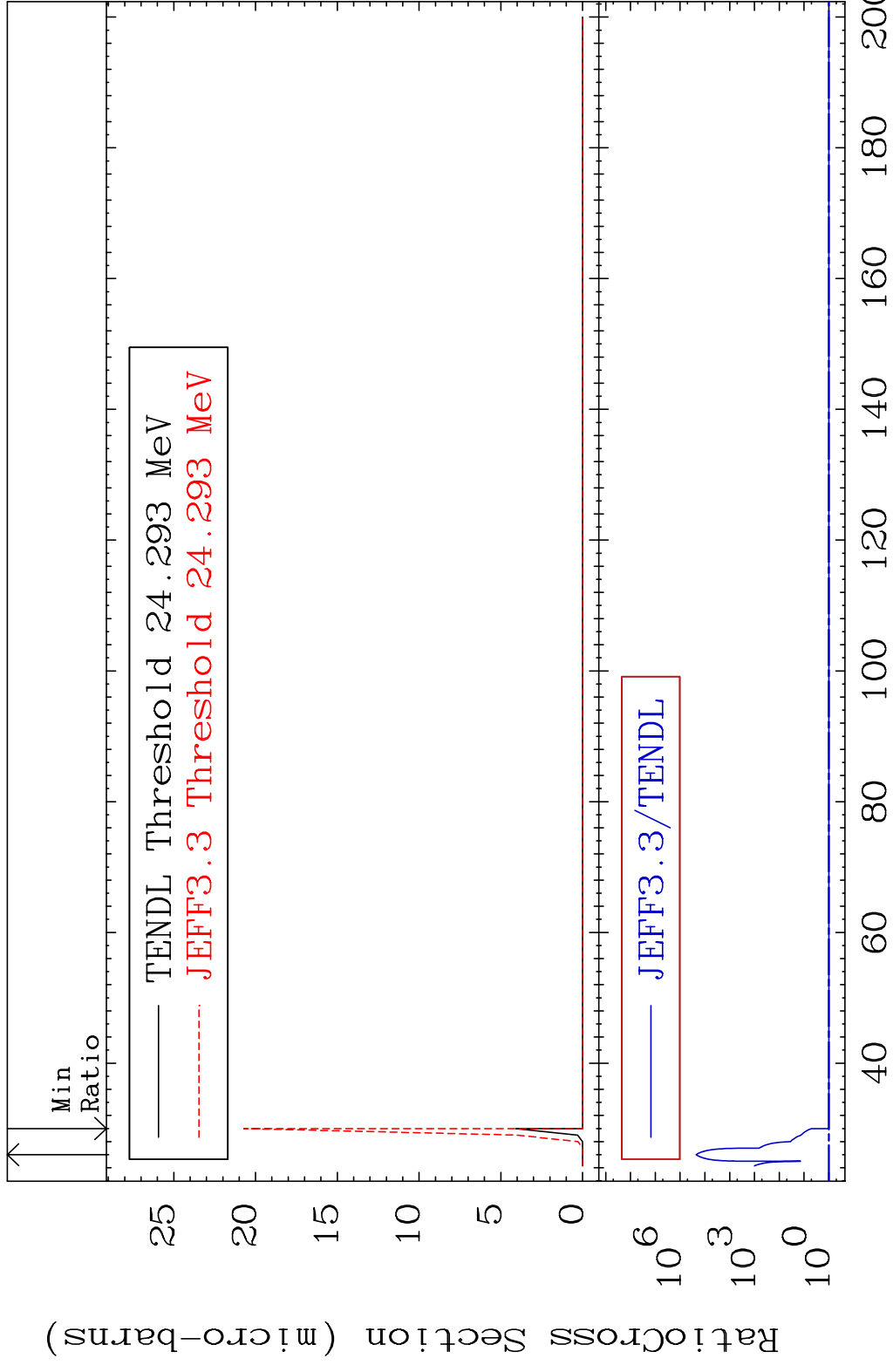
Cross Section -100.0 To 9999. %



MAT 5446 (n,2n) p 54-Xe-131
 Cross Section -100.0 To 9999. %



MAT 5446 (n,3n) p 54-Xe-131
 Cross Section 0.000 To 9999. %

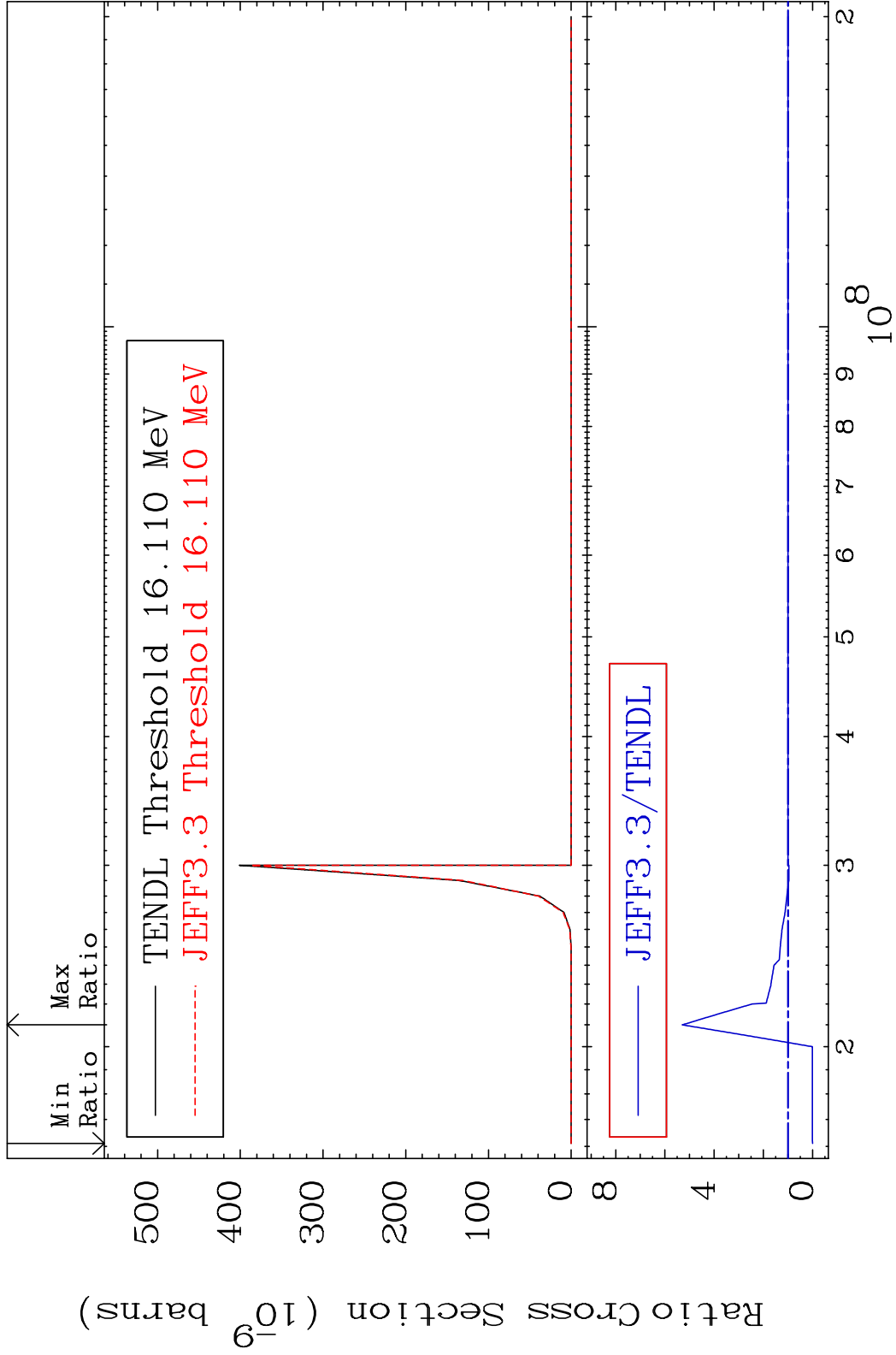


MAT 5446

(n,2n) p

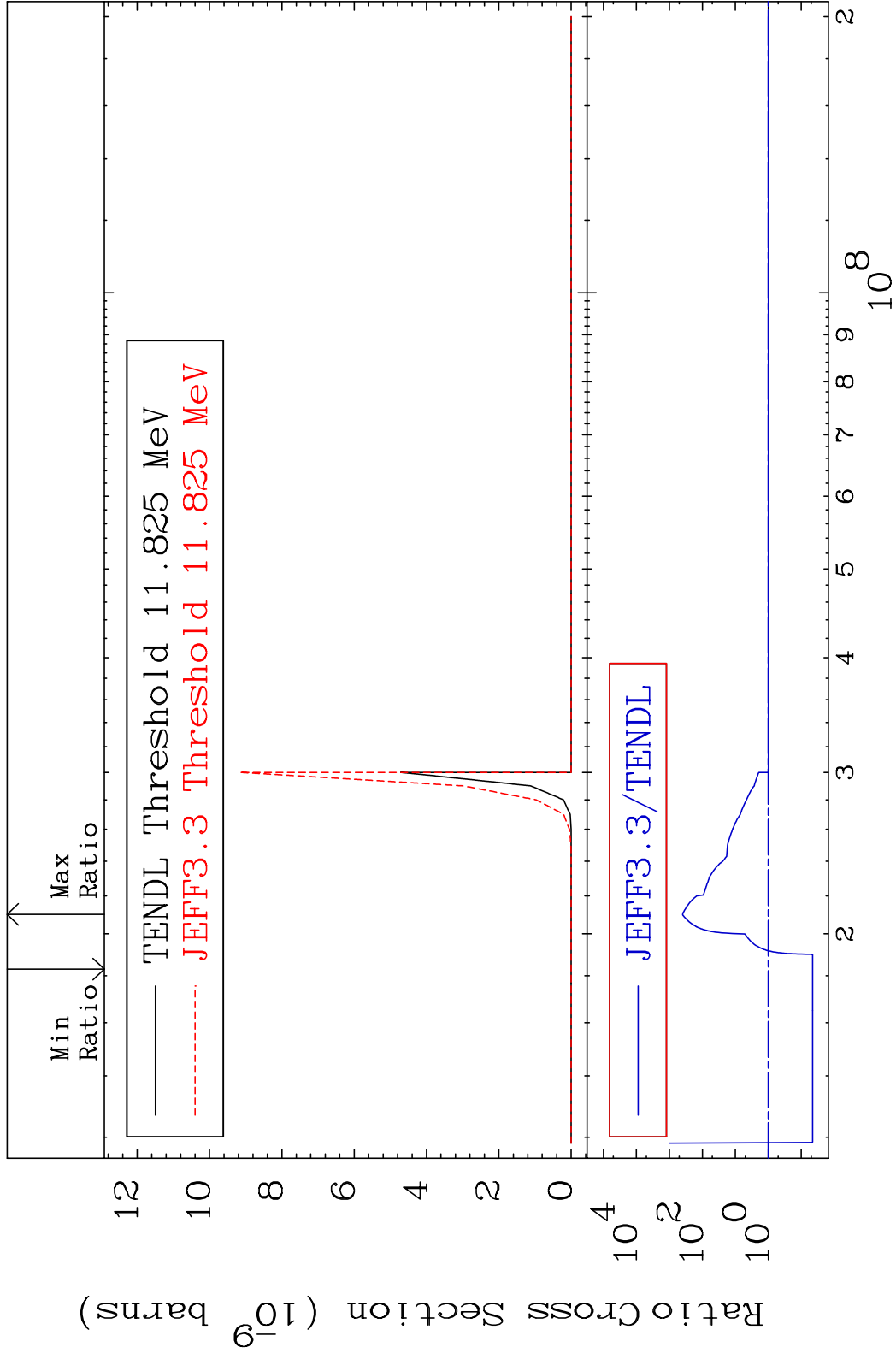
54-Xe-131

Cross Section -100.0 To 429.1 %

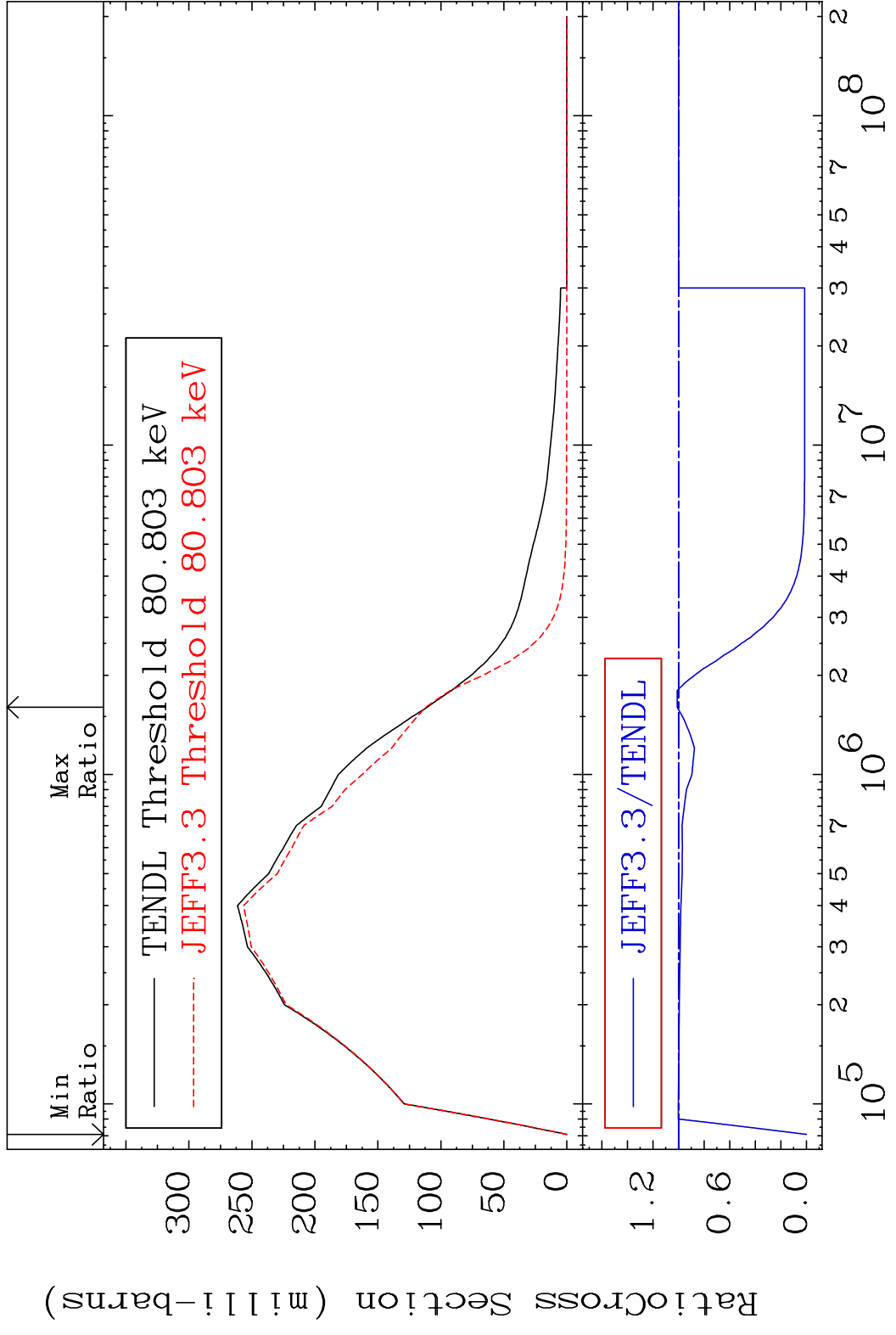


MAT 5446

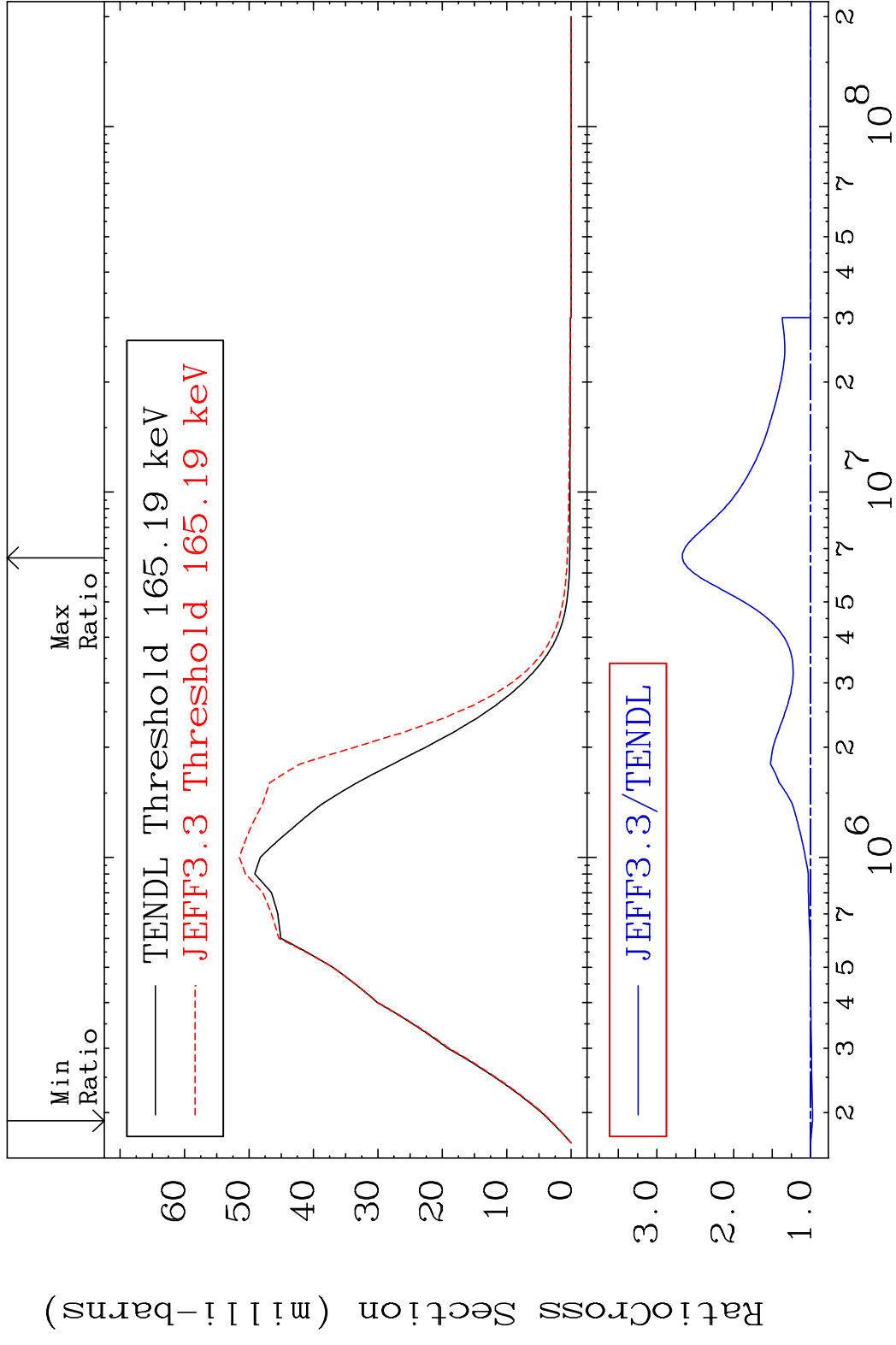
(n,n') p α 54-Xe-131
Cross Section -95.46 To 9999. %



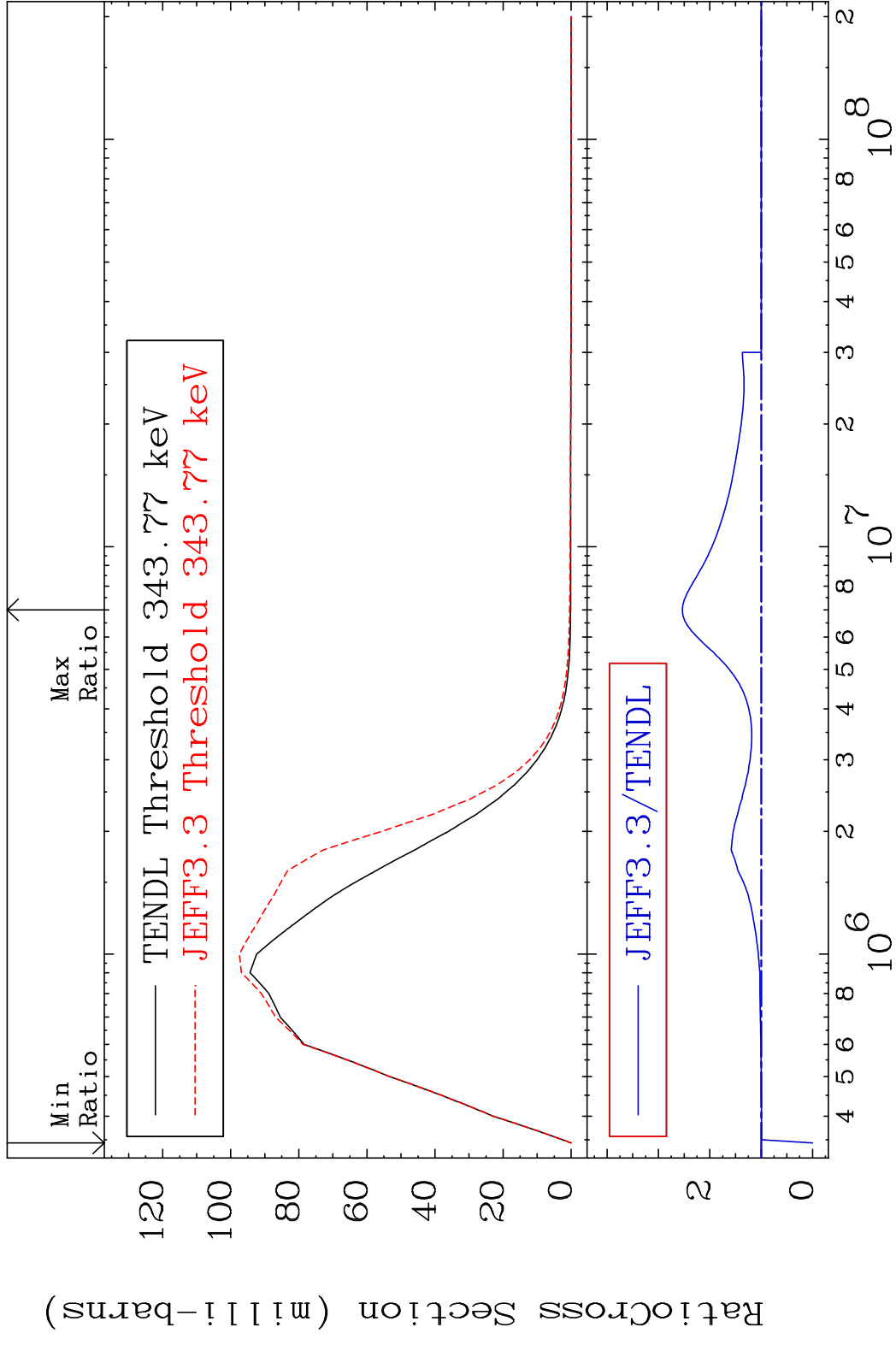
MAT 5446 MT= 51 (n, n') Level 54-Xe-131
 Cross Section -100.0 To 1.078 %



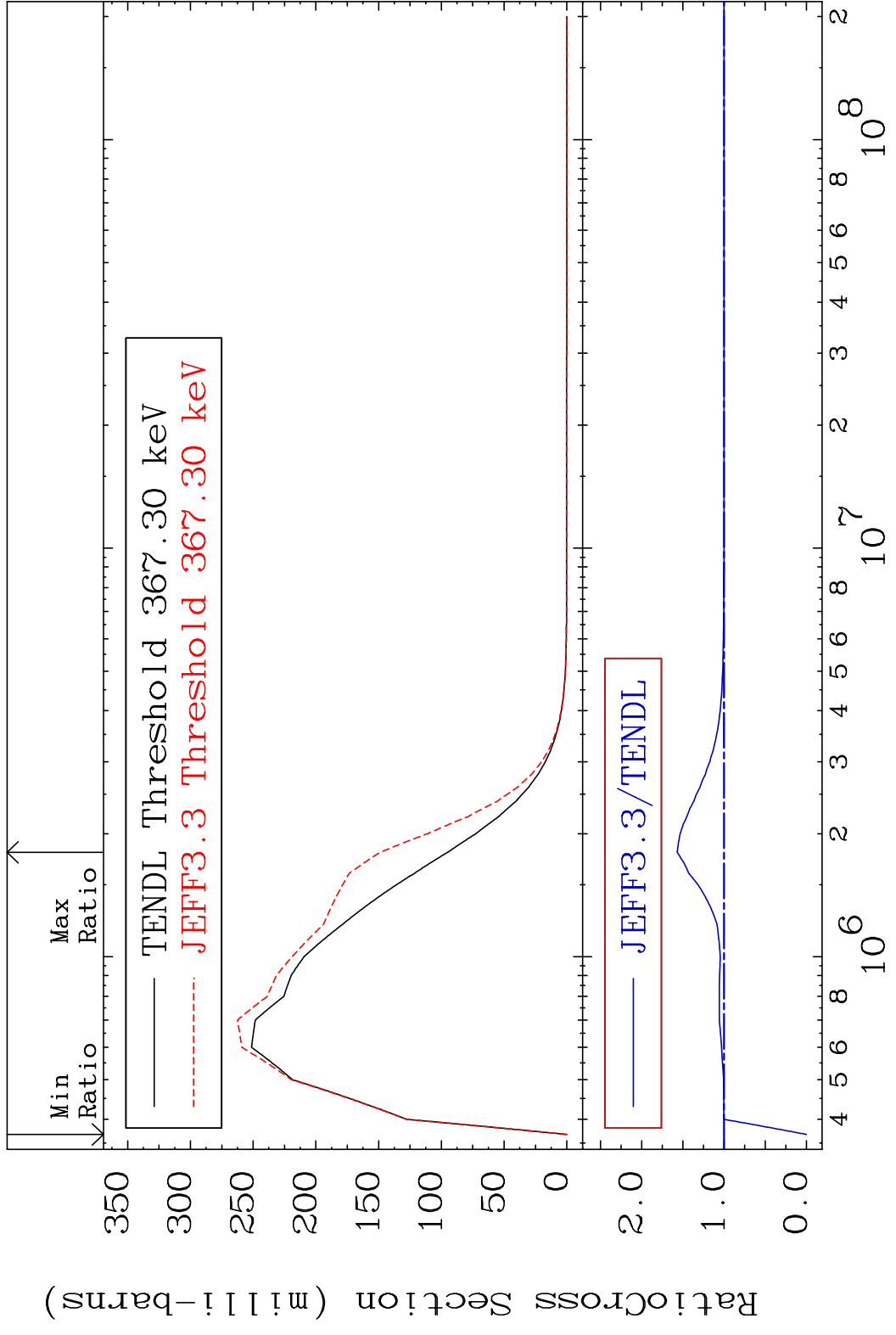
MAT 5446 MT= 52 (n, n') Level 54-Xe-131
 Cross Section -2.543 To 166.8 %



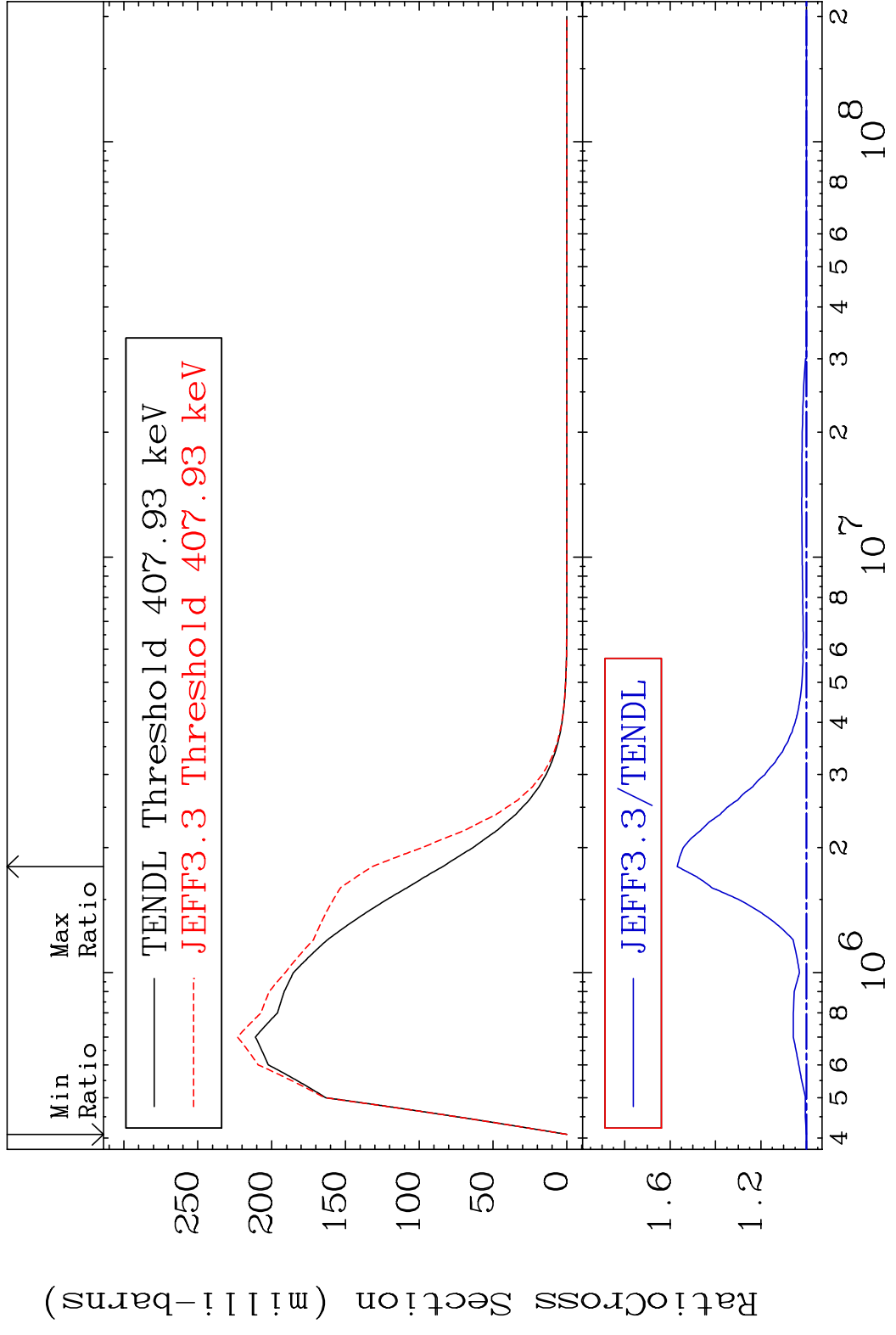
MAT 5446 MT= 53 (n, n') Level 54-Xe-131
 Cross Section -100.0 To 153.5 %



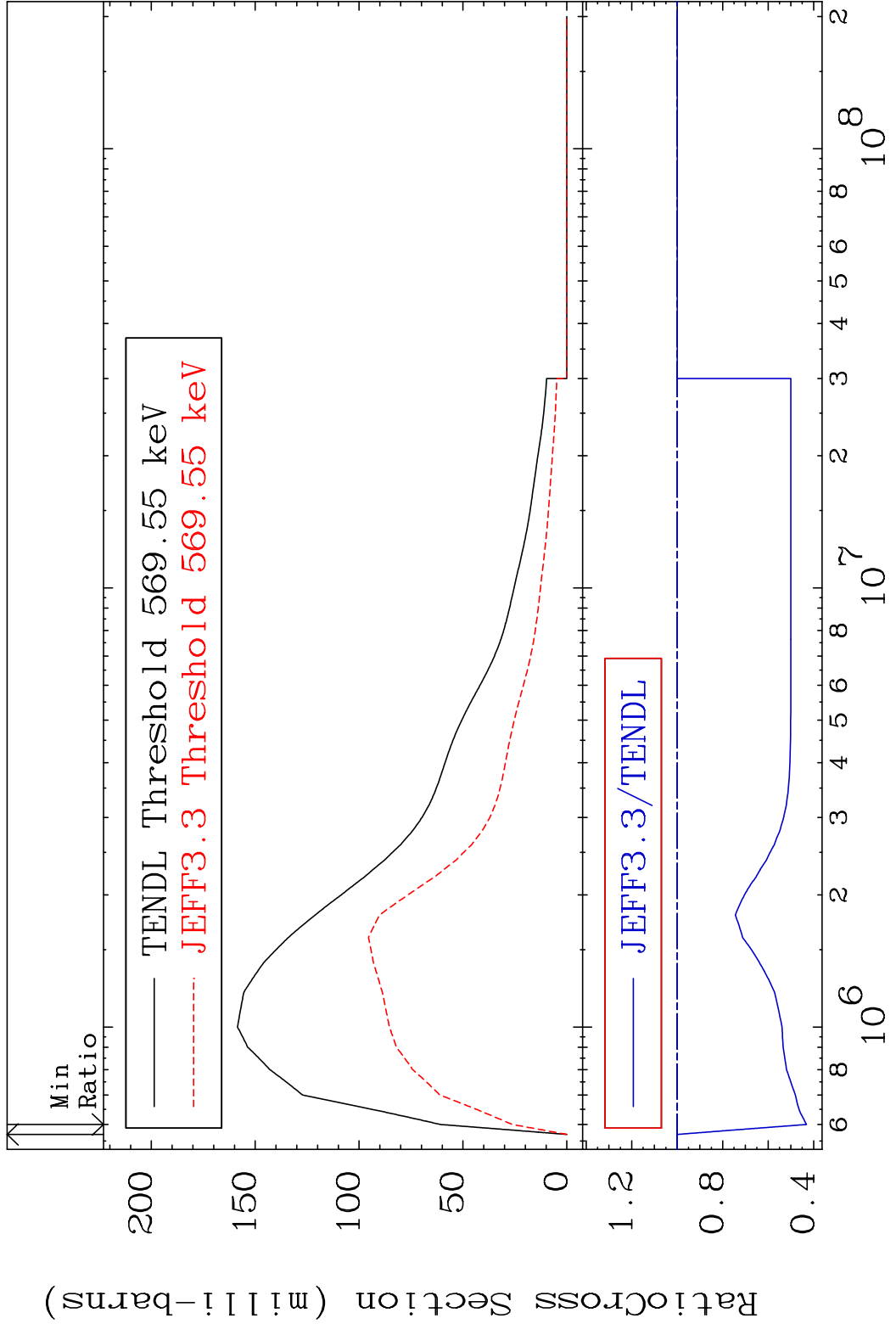
MAT 5446 MT= 54 (n,n') Level 54-Xe-131
 Cross Section -100.0 To 56.83 %



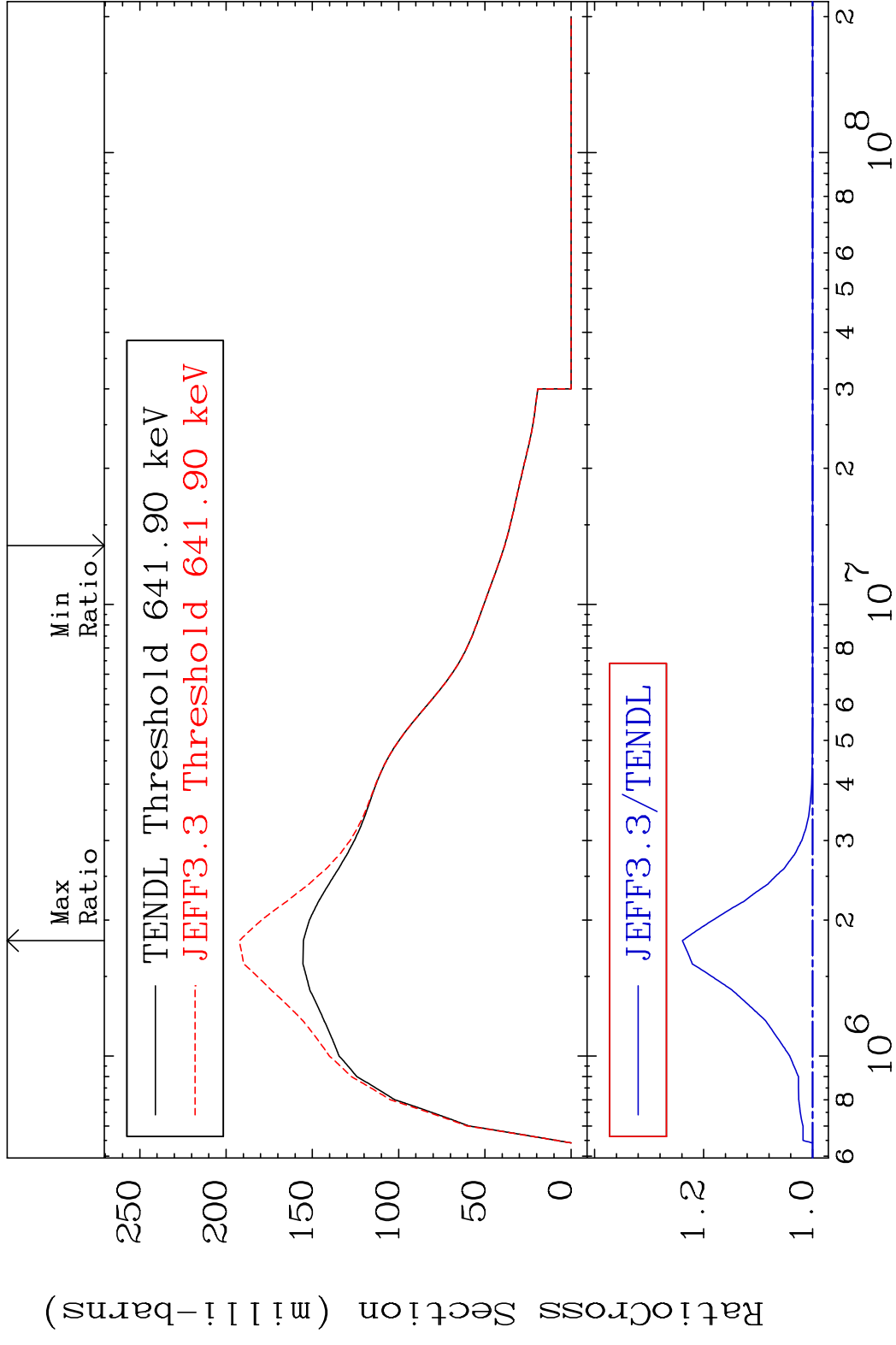
MAT 5446 MT= 55 (n,n') Level 54-Xe-131
 Cross Section 0.000 To 56.89 %



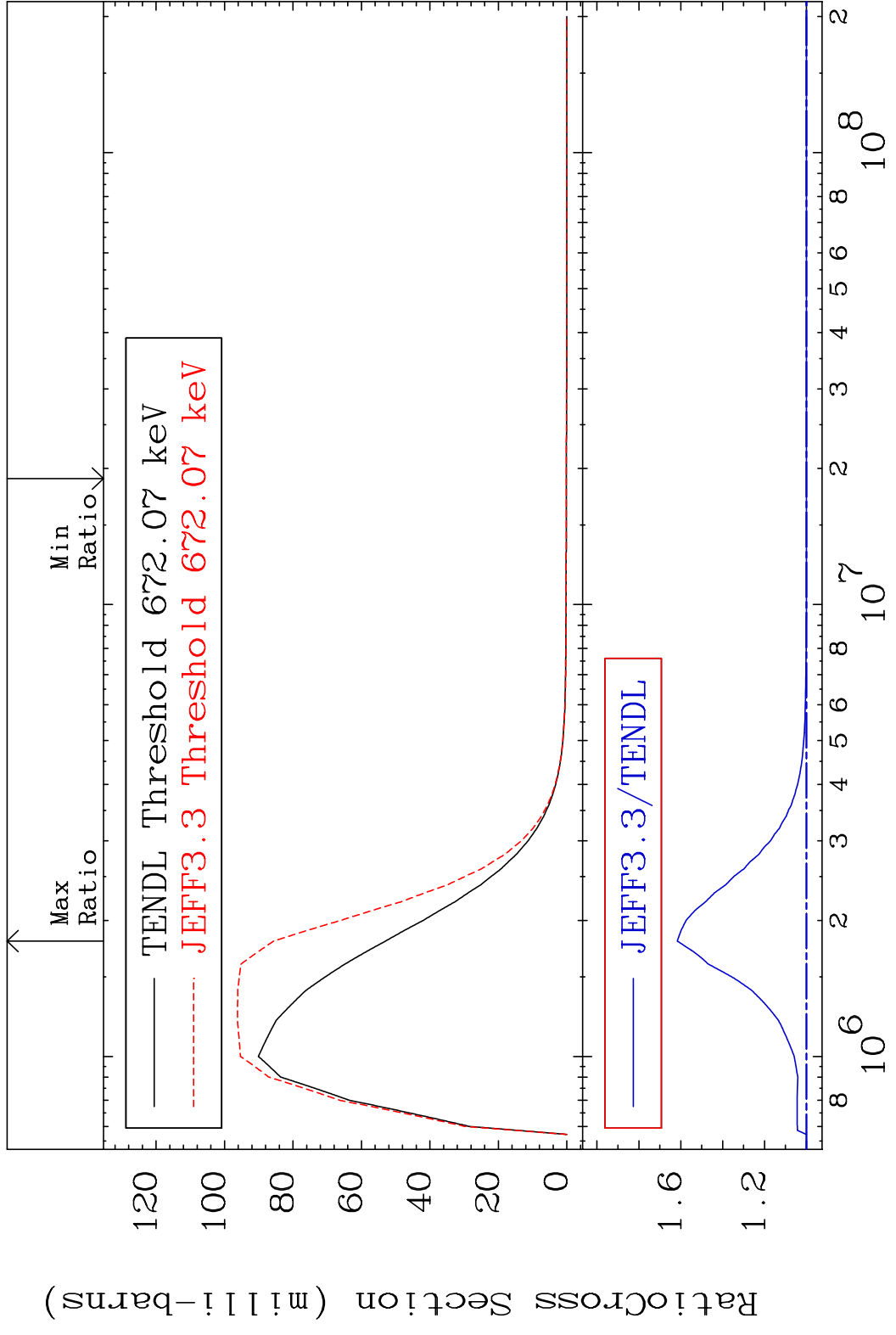
MAT 5446 MT= 56 (n,n') Level 54-Xe-131
 Cross Section -56.82 To 0.000 %



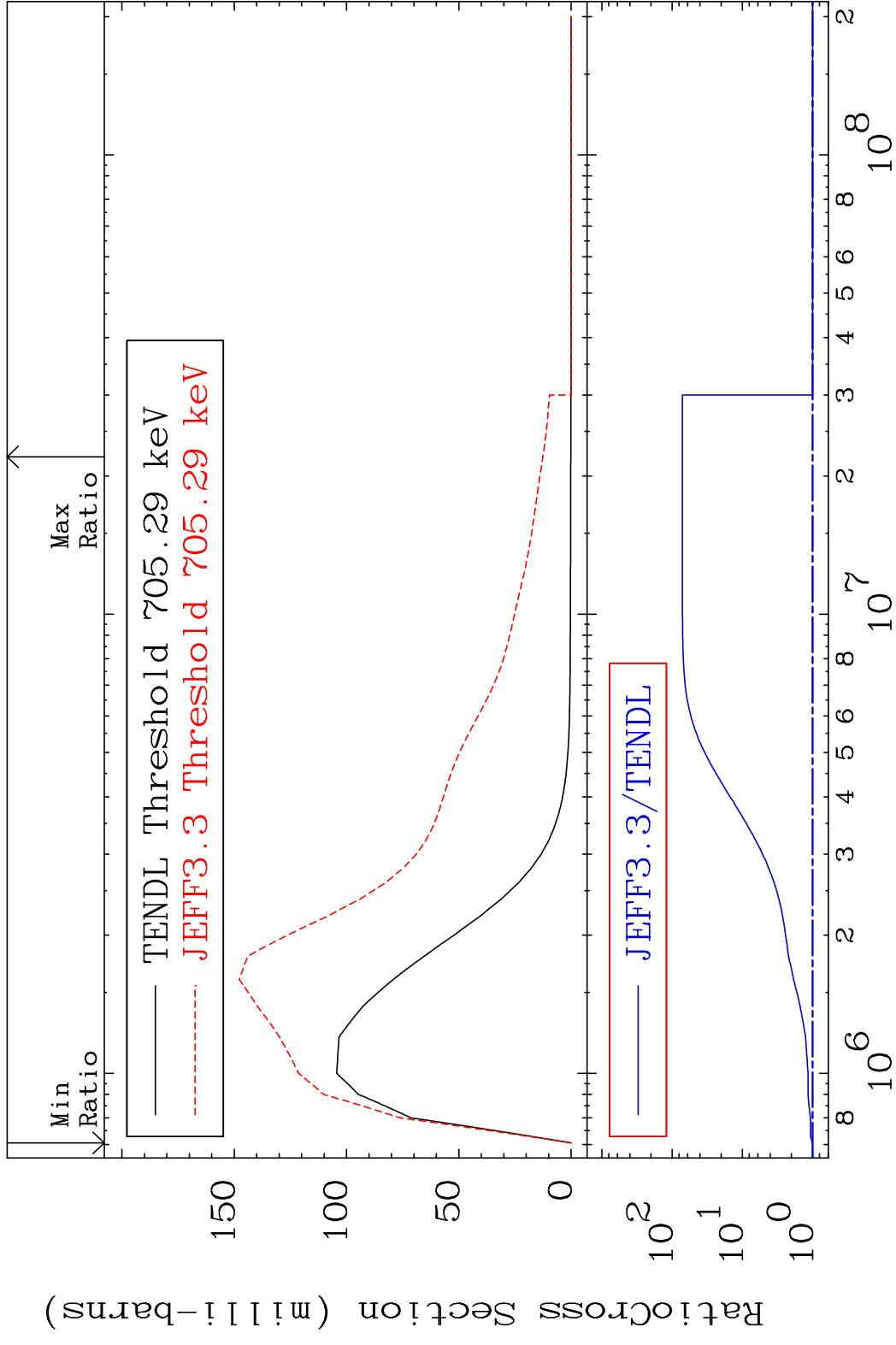
MAT 5446 MT= 57 (n, n') Level 54-Xe-131
 Cross Section 0.000 To 23.90 %



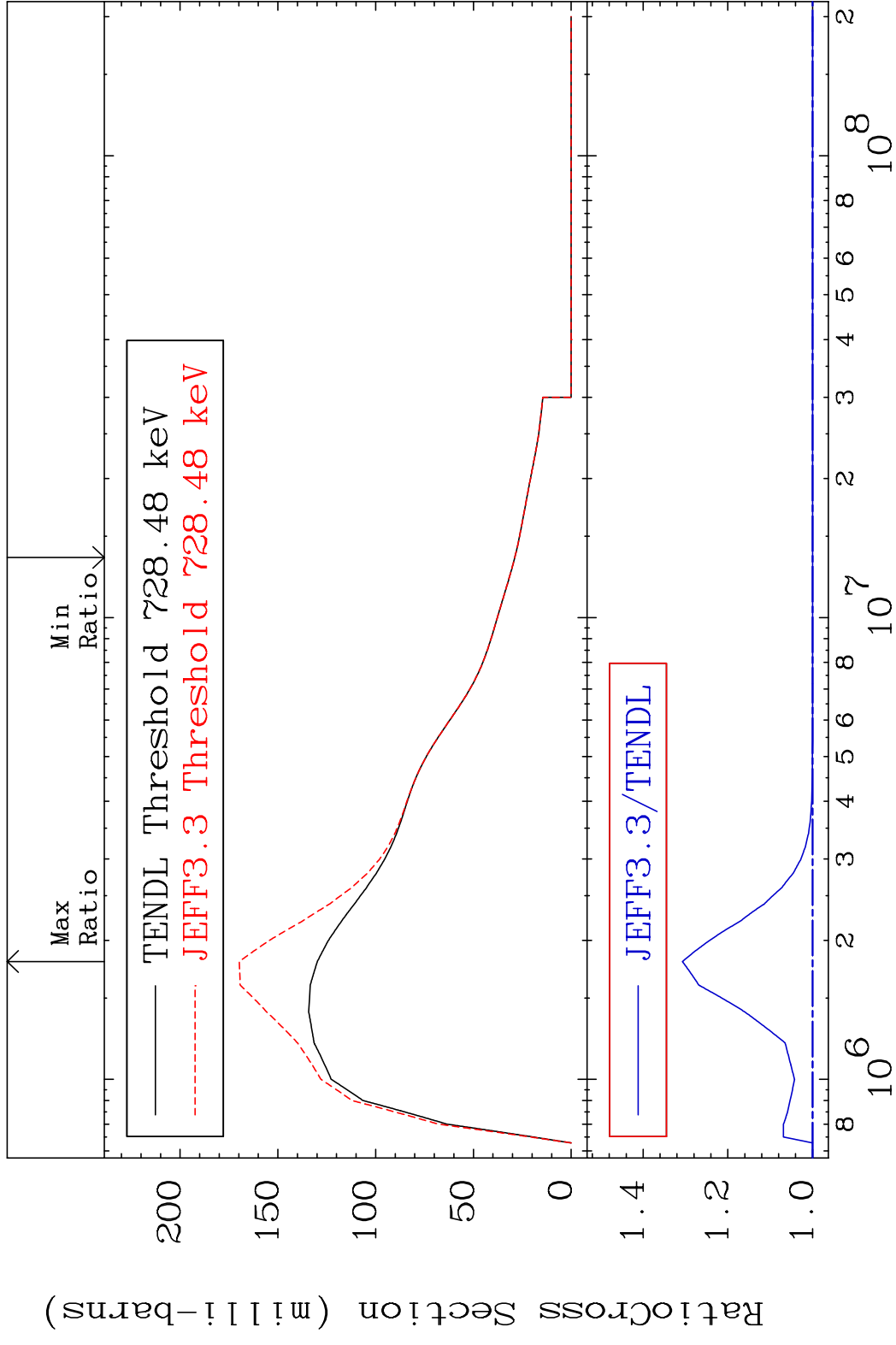
MAT 5446 MT= 58 (n, n') Level 54-Xe-131
 Cross Section 0.000 To 61.70 %



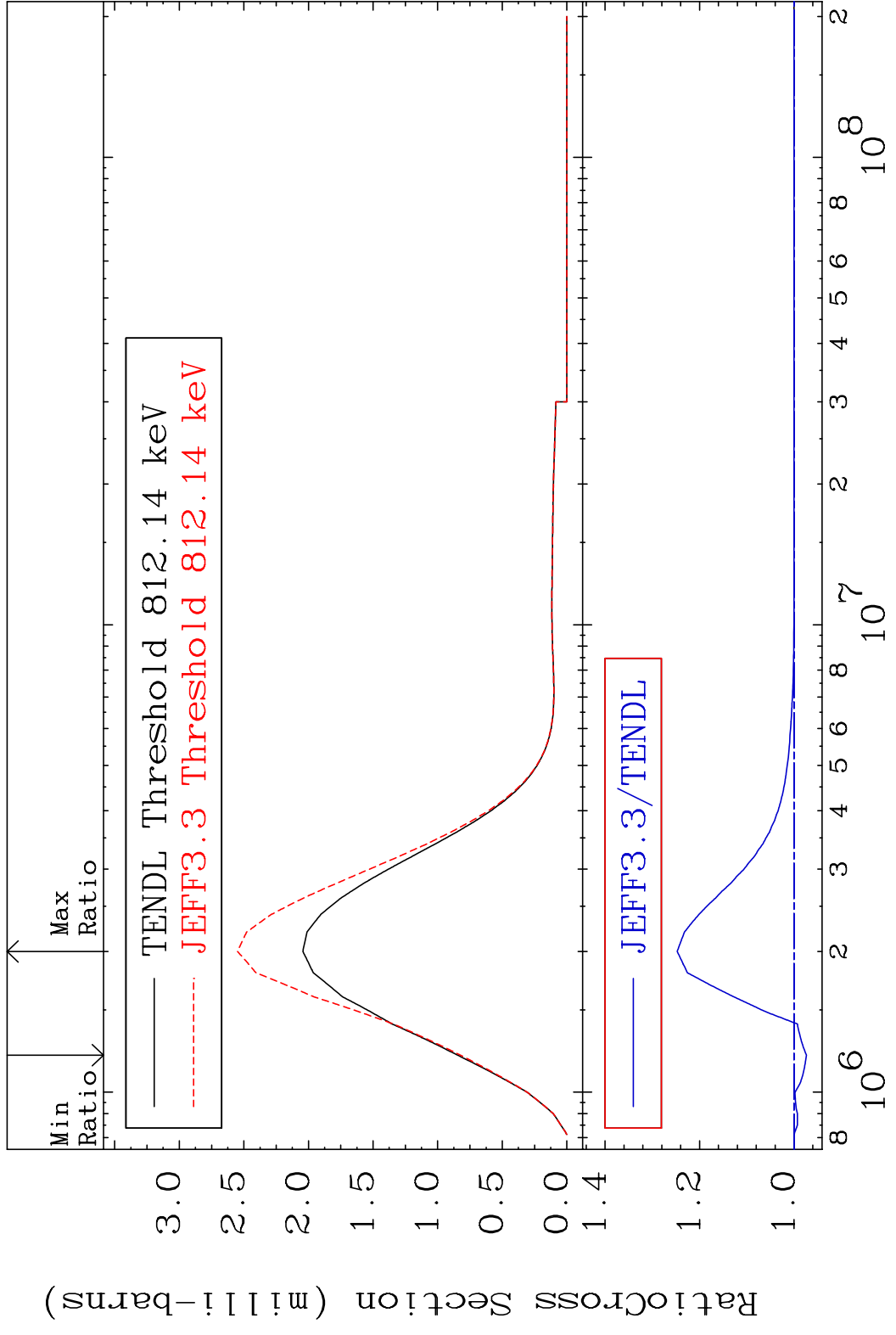
MAT 5446 MT= 59 (n, n') Level 54-Xe-131
 Cross Section 0.000 To 7047. %



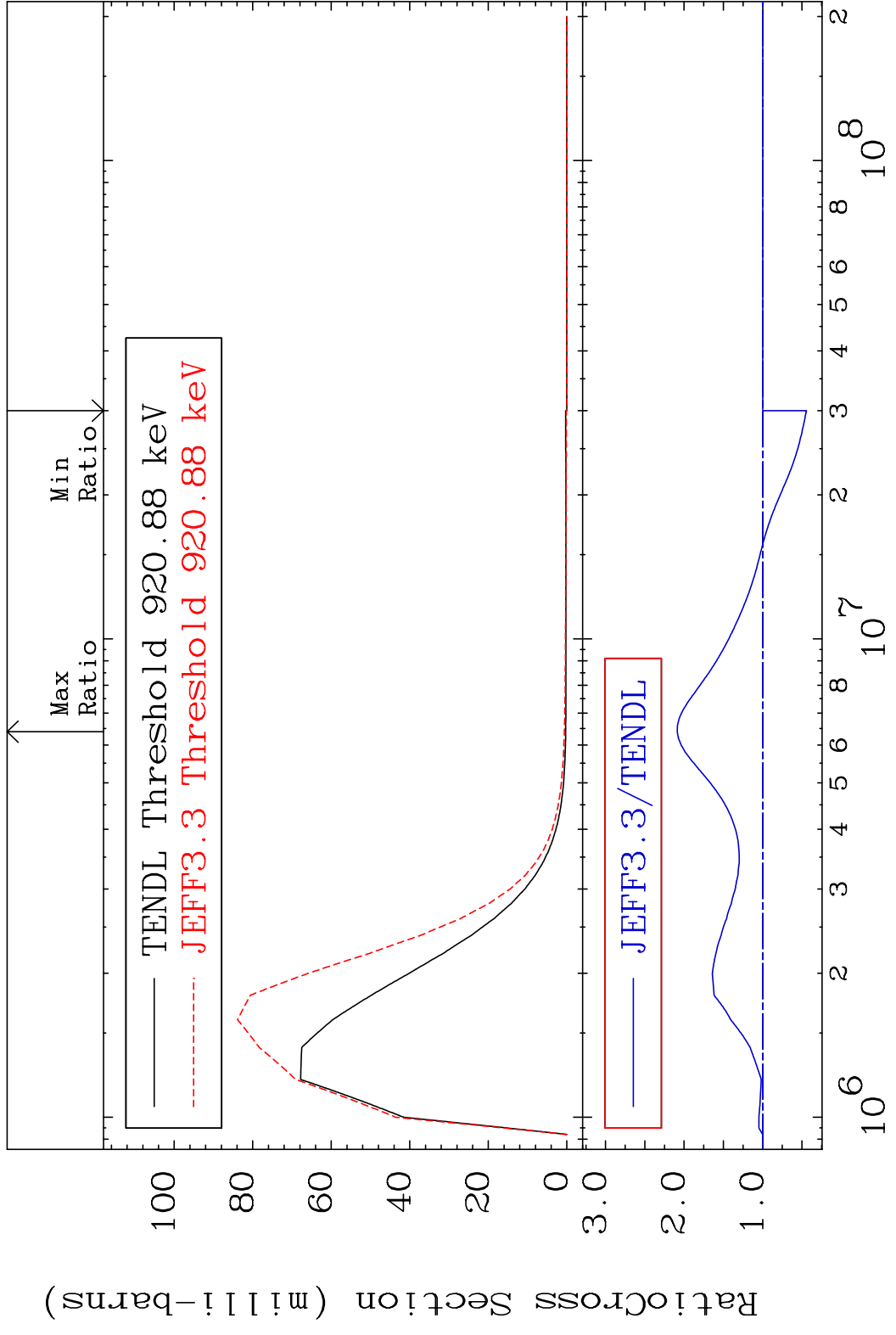
MAT 5446 MT= 60 (n, n') Level 54-Xe-131
 Cross Section 0.000 To 30.74 %



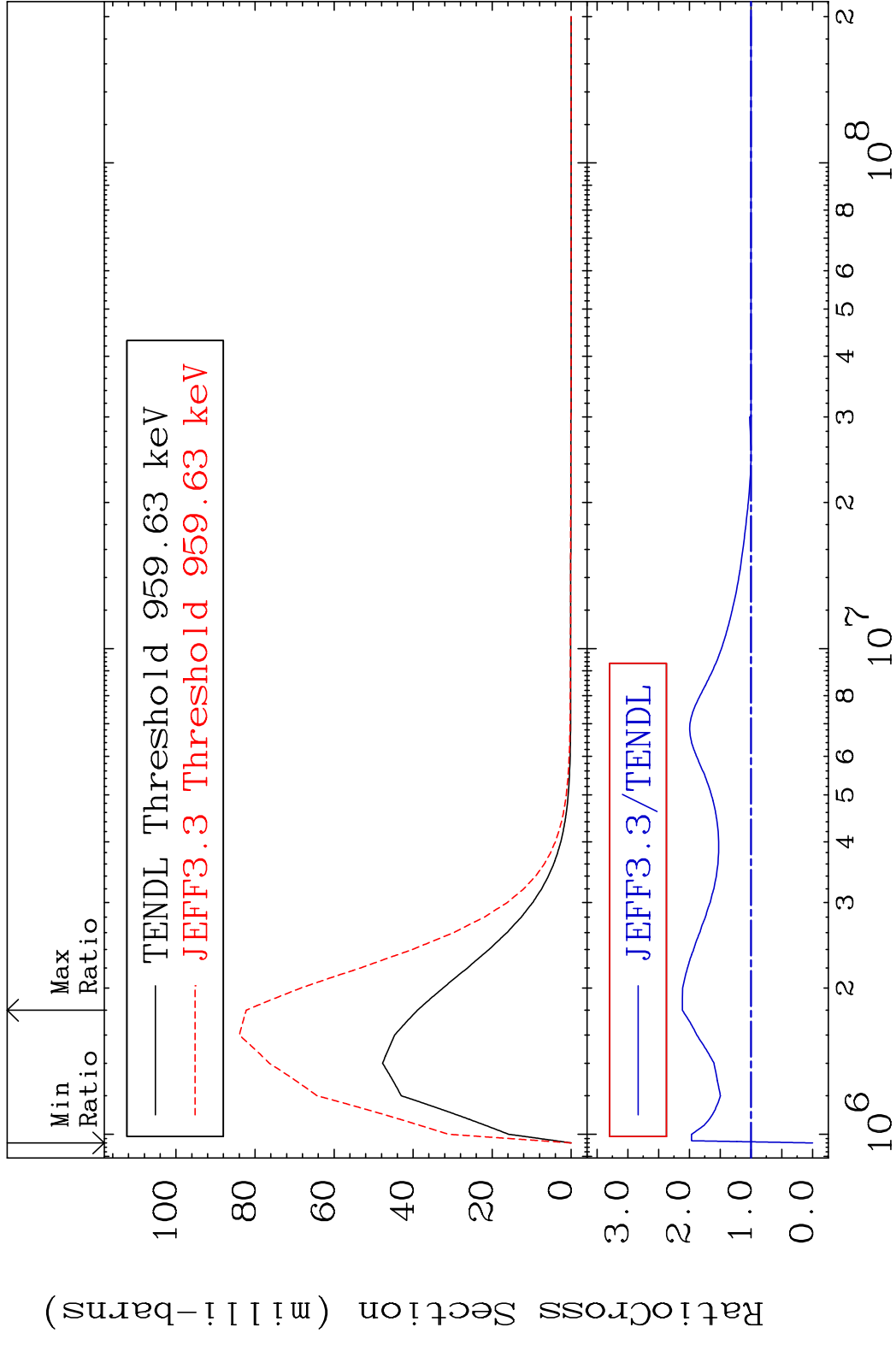
MAT 5446 MT= 61 (n, n') Level 54-Xe-131
 Cross Section -2.625 To 24.74 %



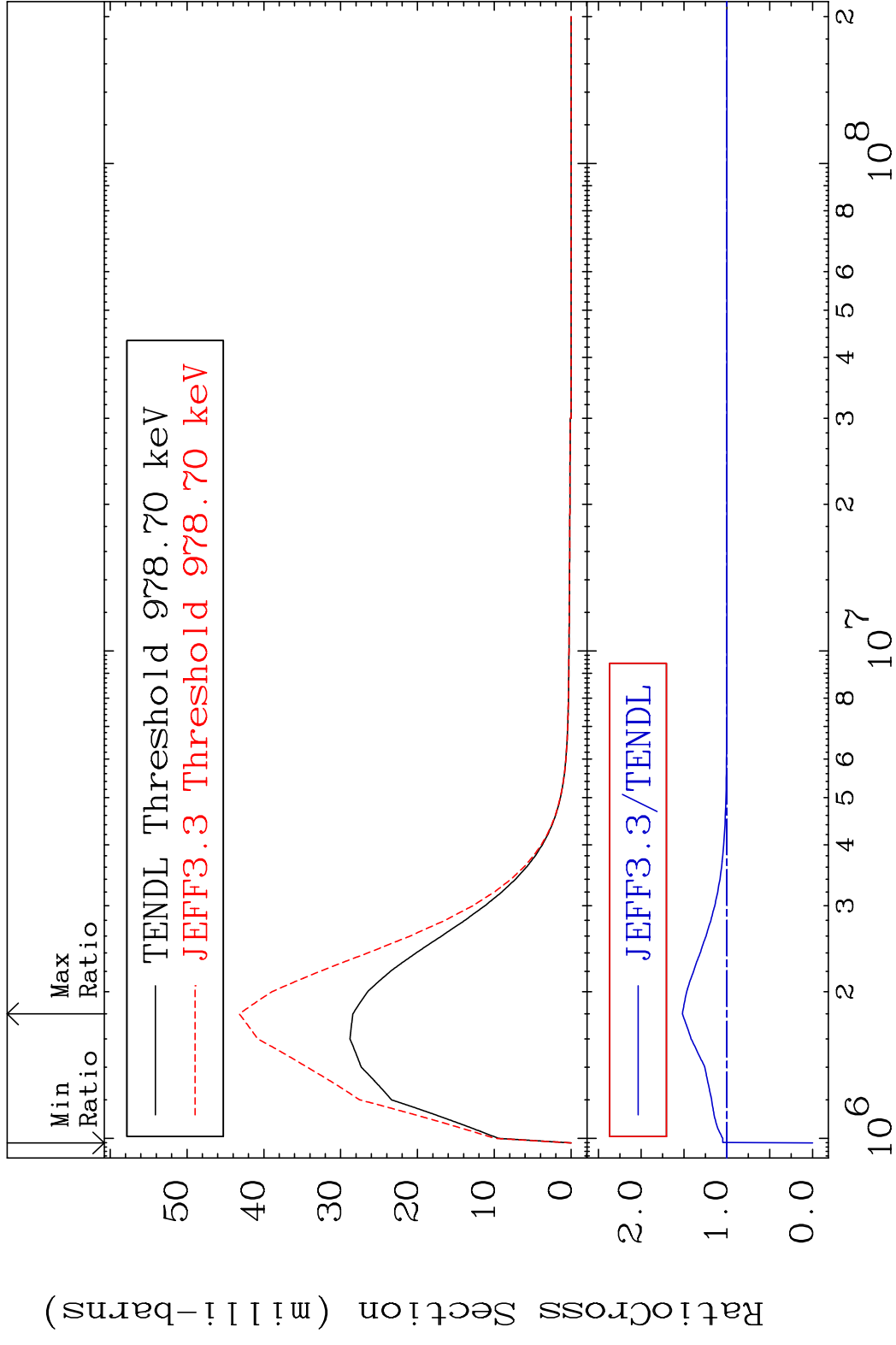
MAT 5446 MT= 62 (n, n') Level 54-Xe-131
 Cross Section -55.64 To 108.8 %



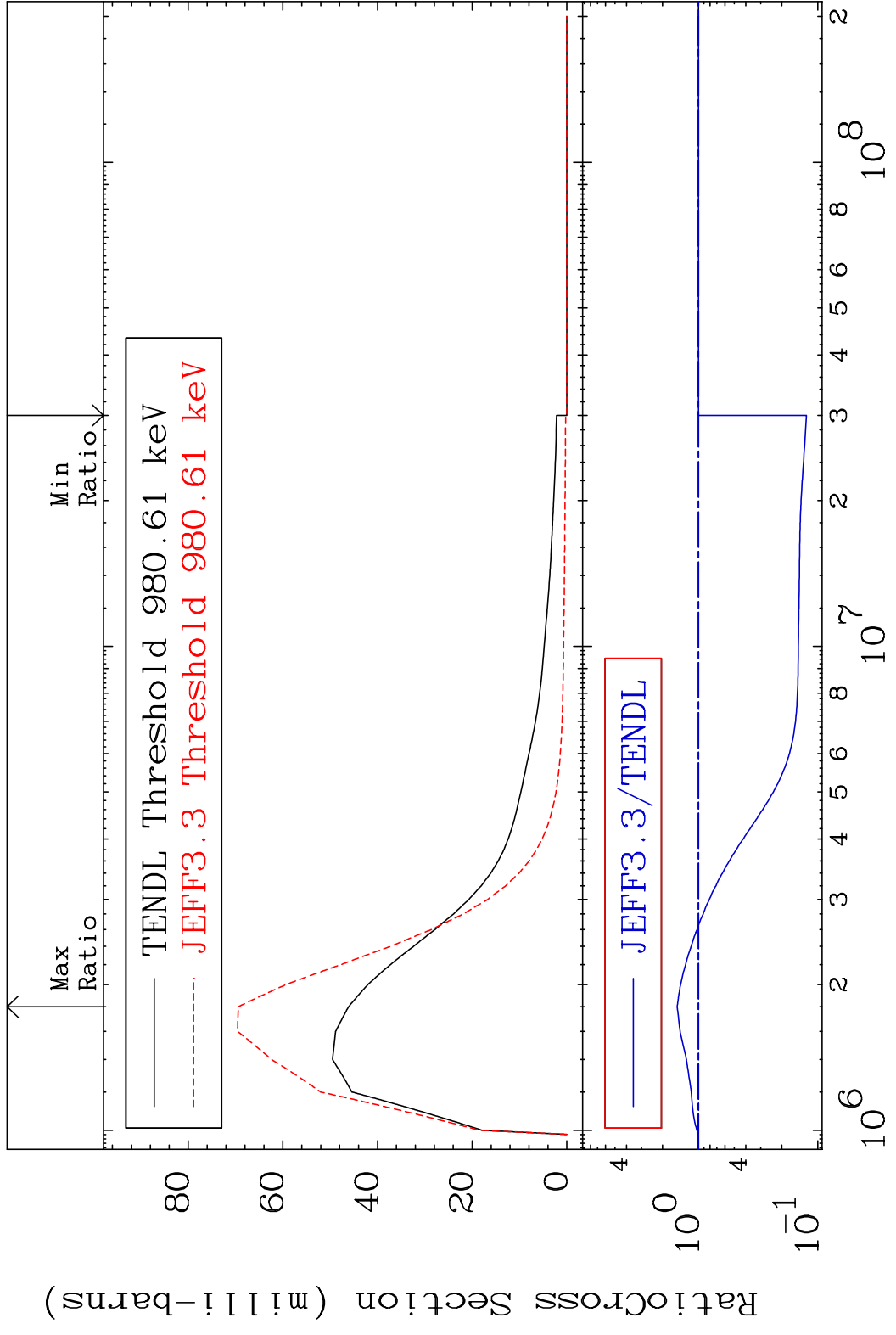
MAT 5446 MT= 63 (n, n') Level 54-Xe-131
 Cross Section -100.0 To 111.4 %



MAT 5446 MT= 64 (n,n') Level 54-Xe-131
 Cross Section -100.0 To 51.99 %

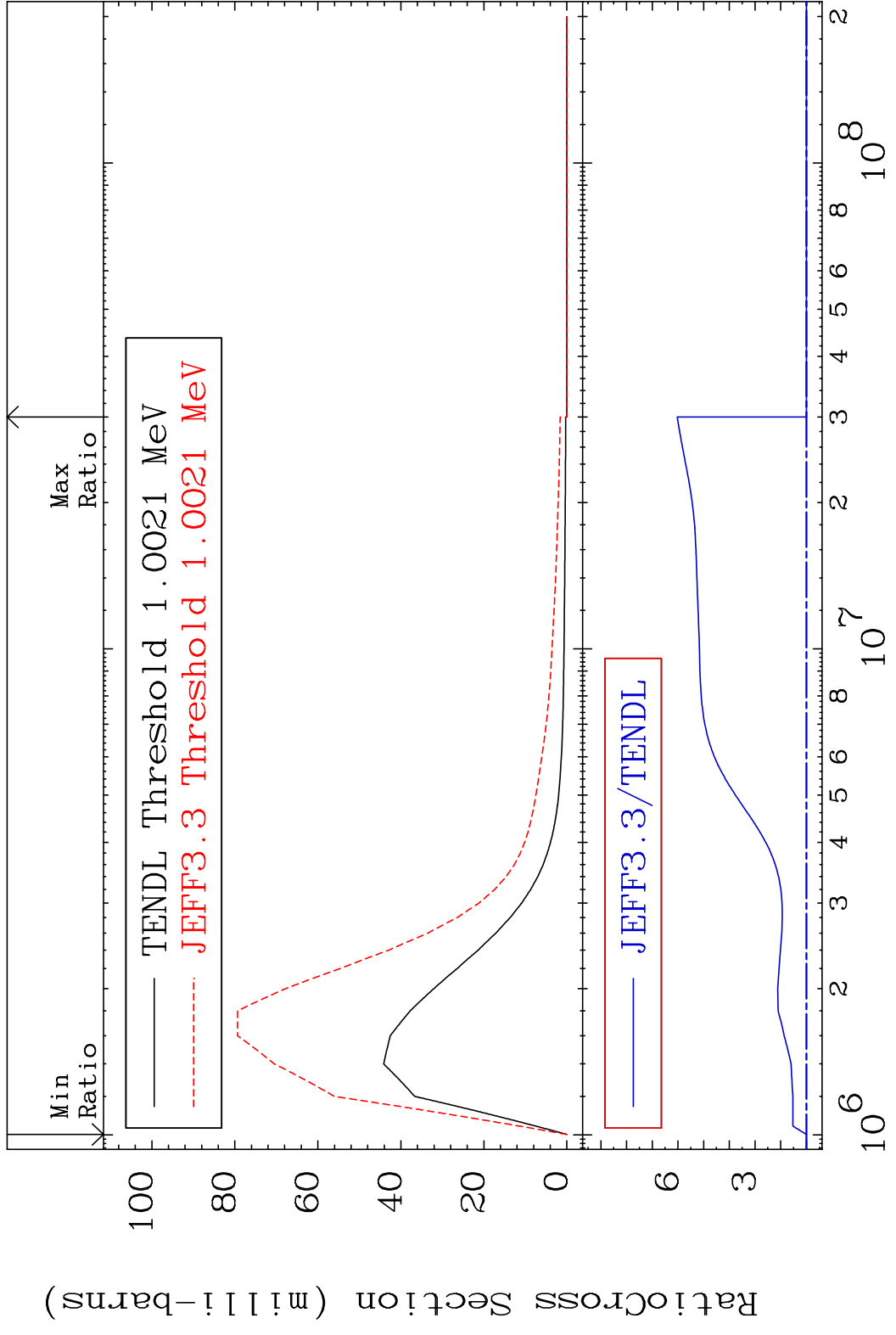


MAT 5446 MT= 65 (n, n') Level 54-Xe-131
 Cross Section -87.56 To 50.56 %



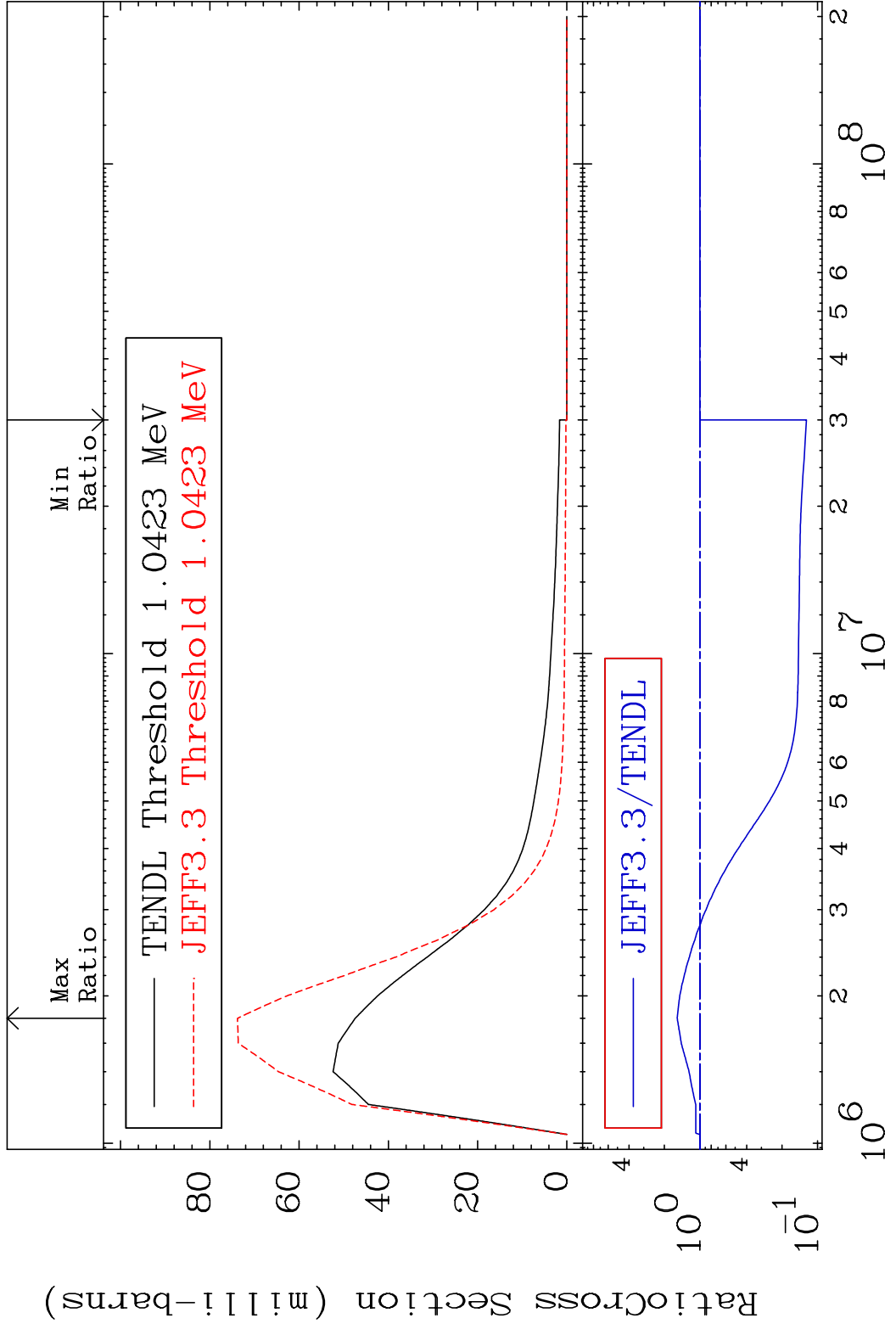
33 Incident Energy (eV) 54-Xe-131

MAT 5446 MT= 66 (n,n') Level 54-Xe-131
 Cross Section 0.000 To 502.9 %



34 Incident Energy (eV) 54-Xe-131

MAT 5446 MT= 67 (n, n') Level 54-Xe-131
 Cross Section -87.57 To 55.67 %

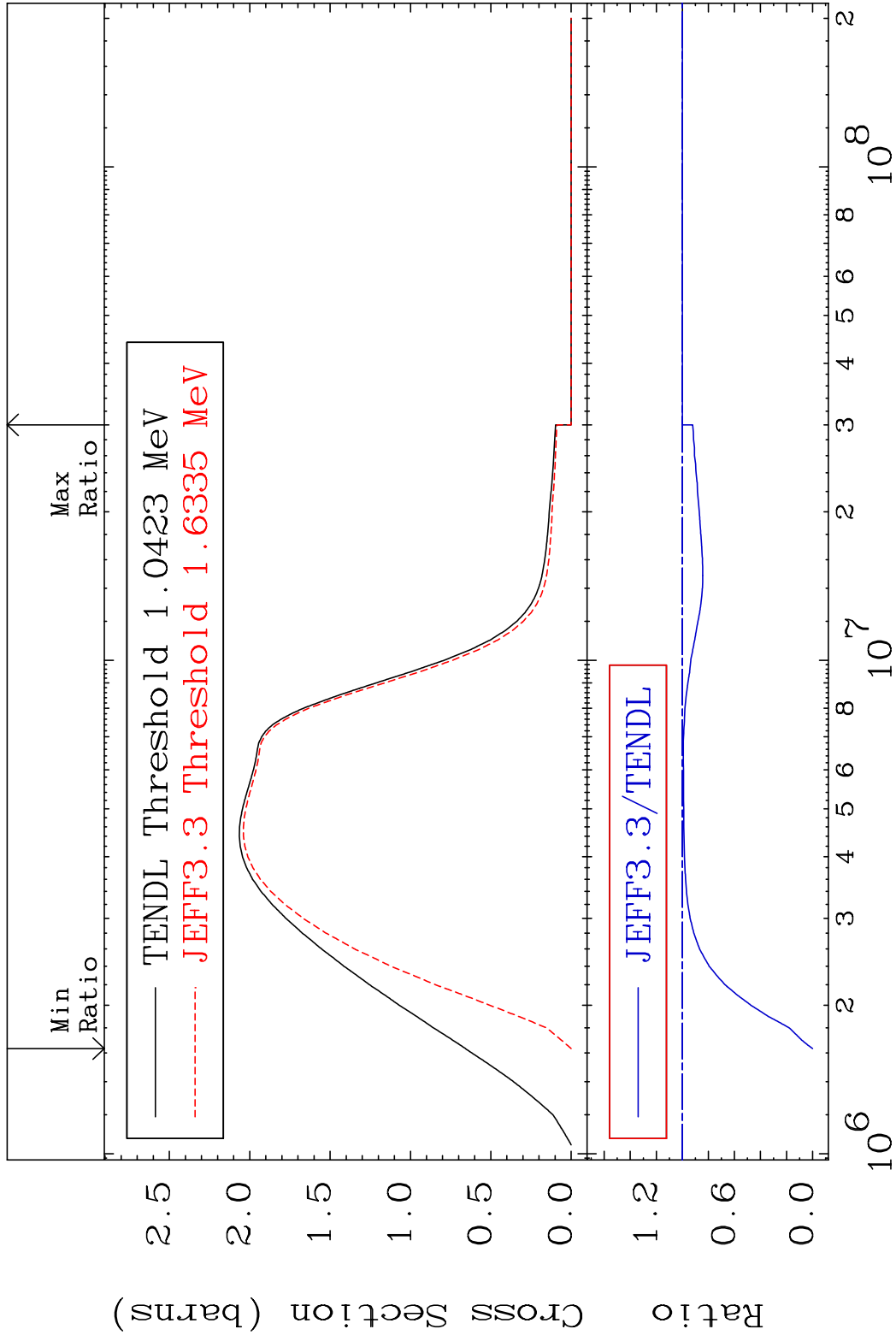


35 Incident Energy (eV) 54-Xe-131

MAT 5446

(n, n') Continuum
Cross Section -100.0 To 0.000 %

54-Xe-131



36

Incident Energy (eV)

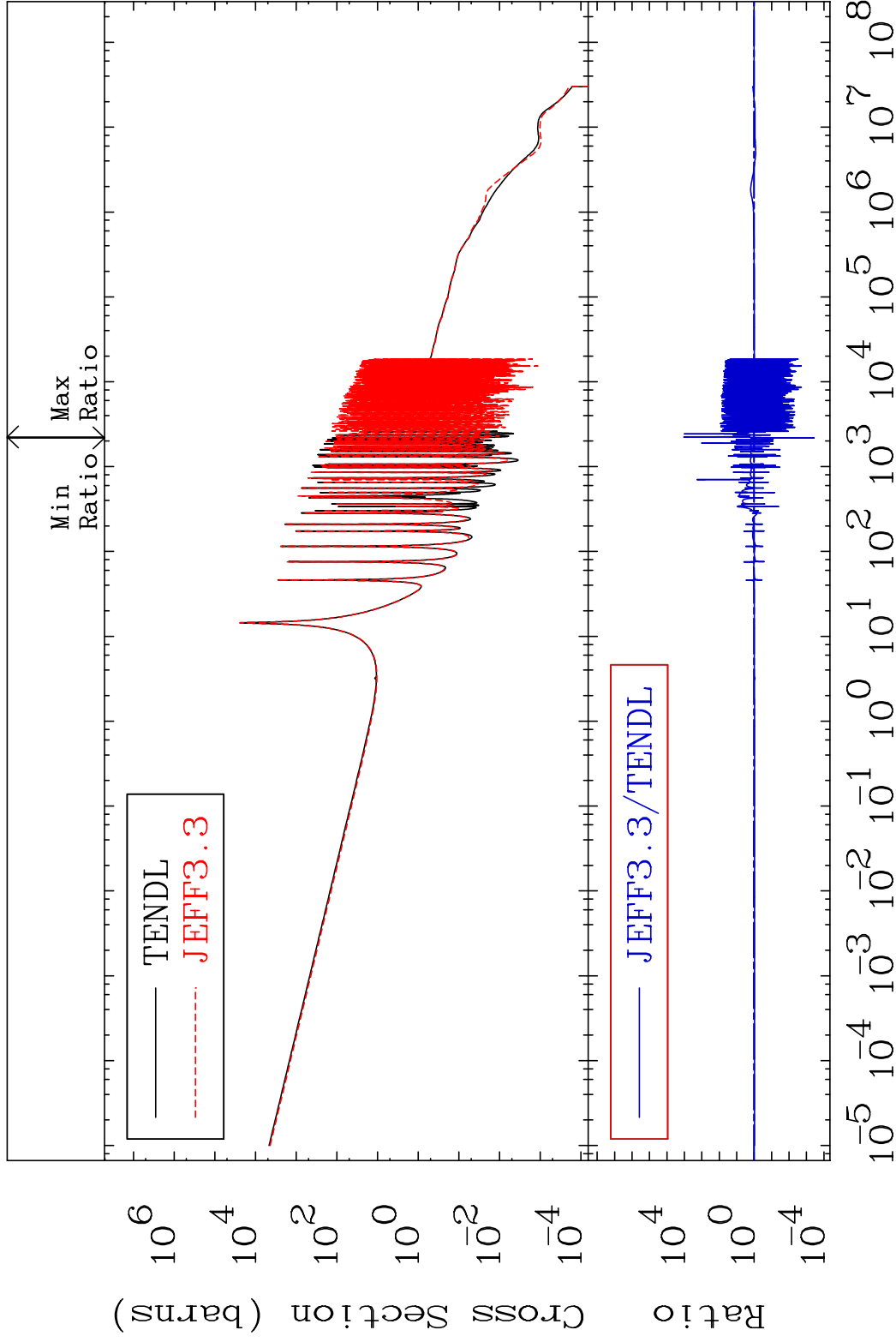
54-Xe-131

MAT 5446

(n, γ)

54-Xe-131

Cross Section -99.96 To 9999. %



37

Incident Energy (eV)

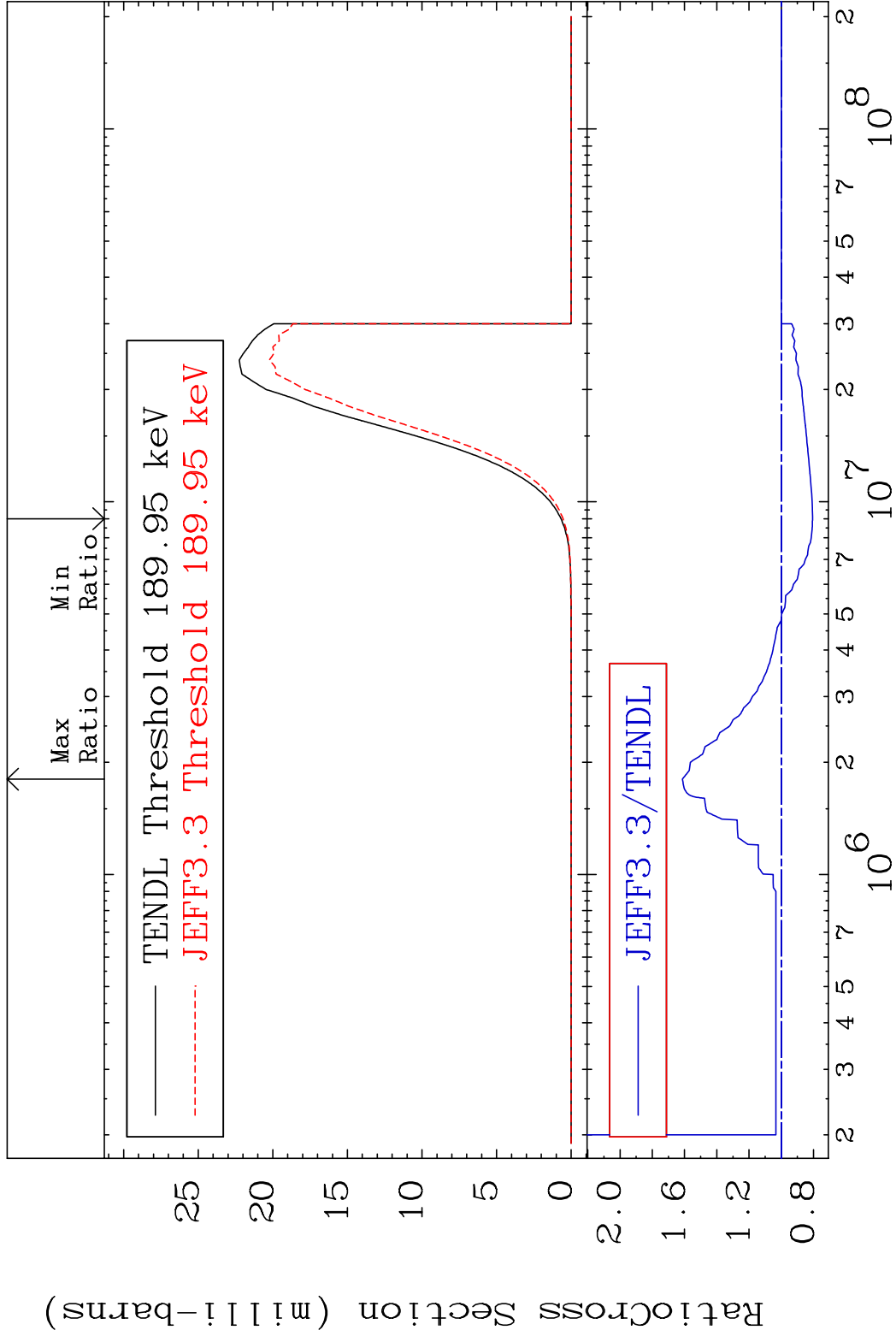
54-Xe-131

MAT 5446

(n, p)

54-Xe-131

Cross Section -19.38 To 61.36 %

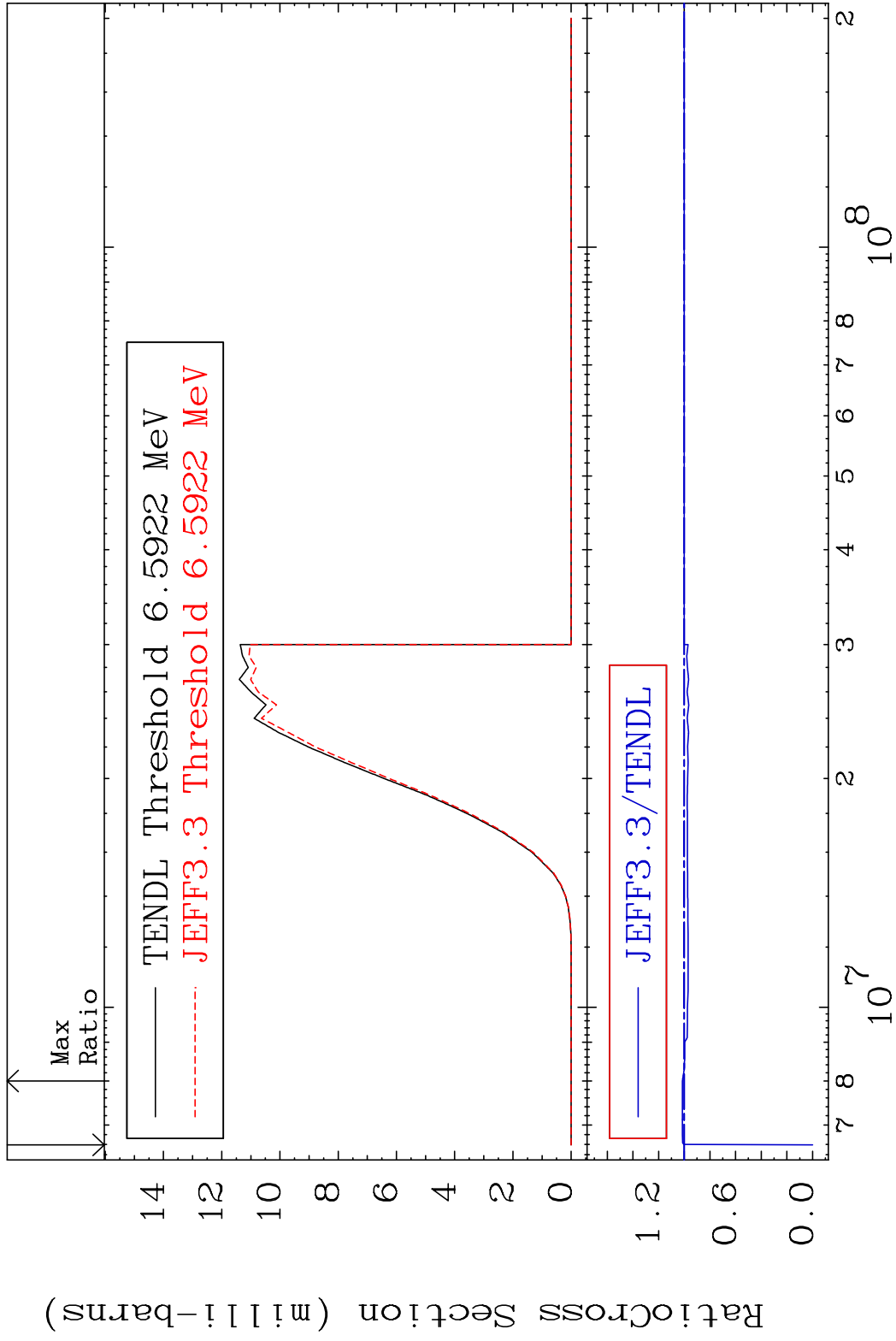


MAT 5446

(n, d)

54-Xe-131

Cross Section -100.0 To 1.474 %



39

Incident Energy (eV)

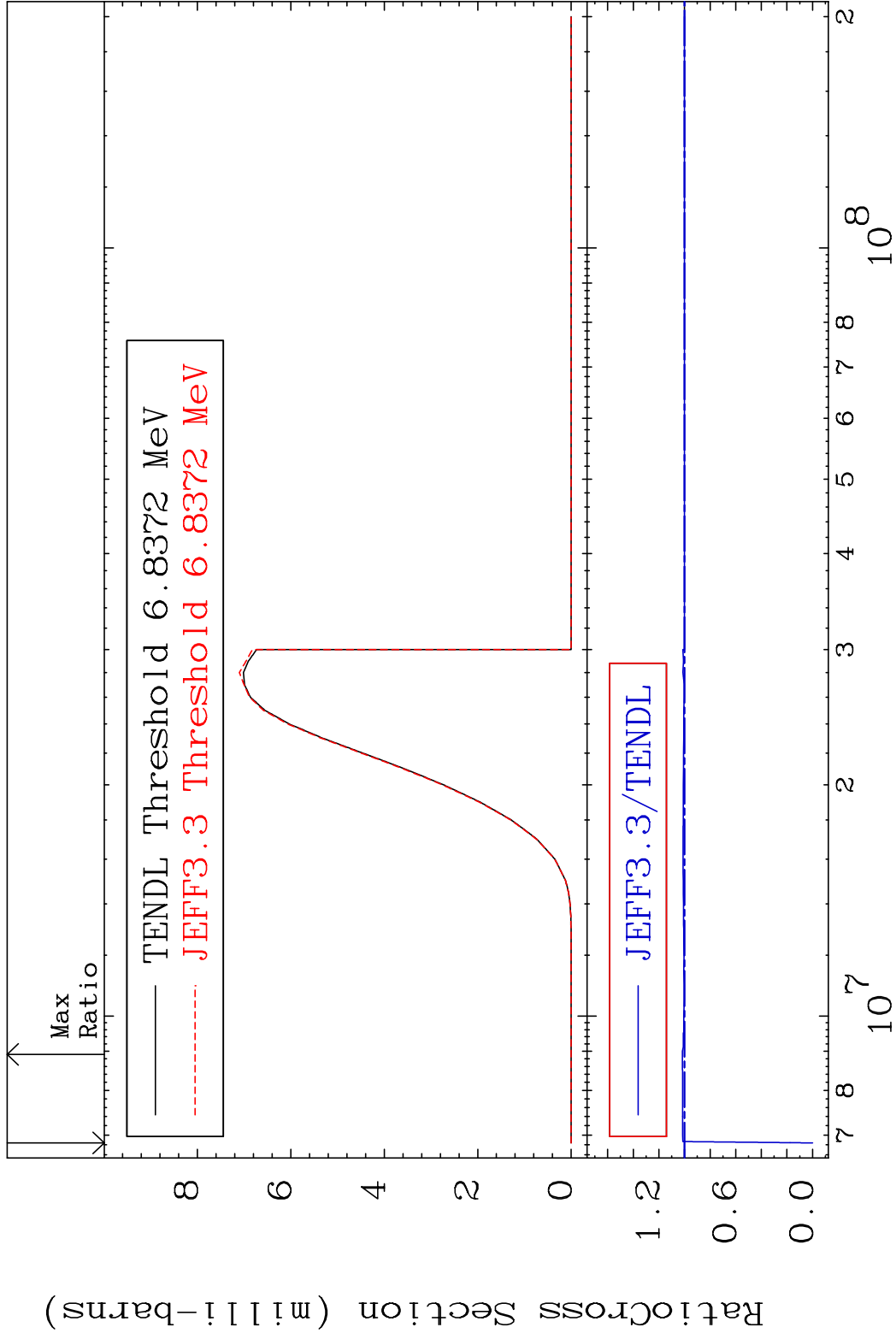
54-Xe-131

MAT 5446

(n, t)

54-Xe-131

Cross Section -100.0 To 1.668 %



40

Incident Energy (eV)

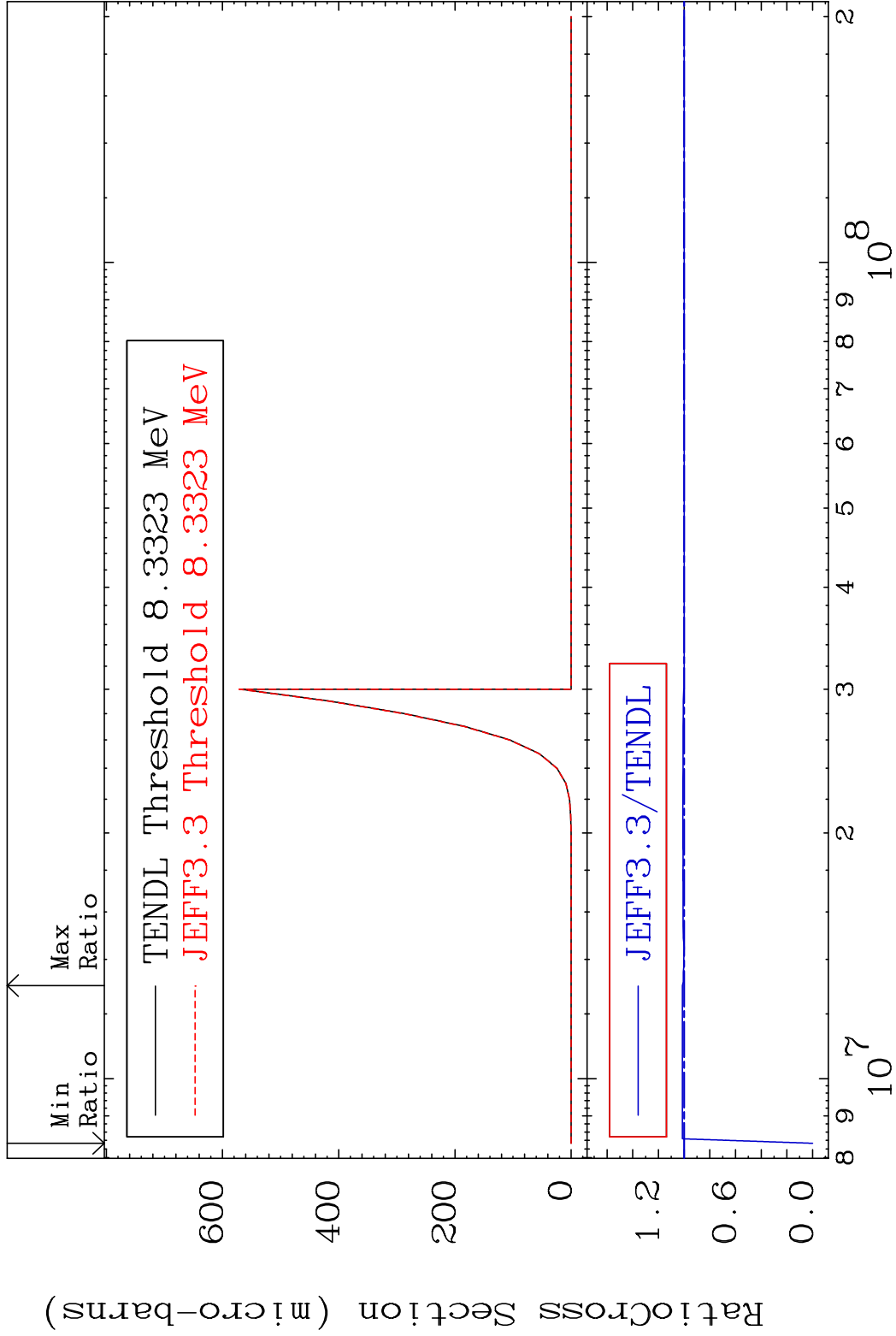
54-Xe-131

MAT 5446

(n, He-3)

54-Xe-131

Cross Section -100.0 To 1.382 %



41

Incident Energy (eV)

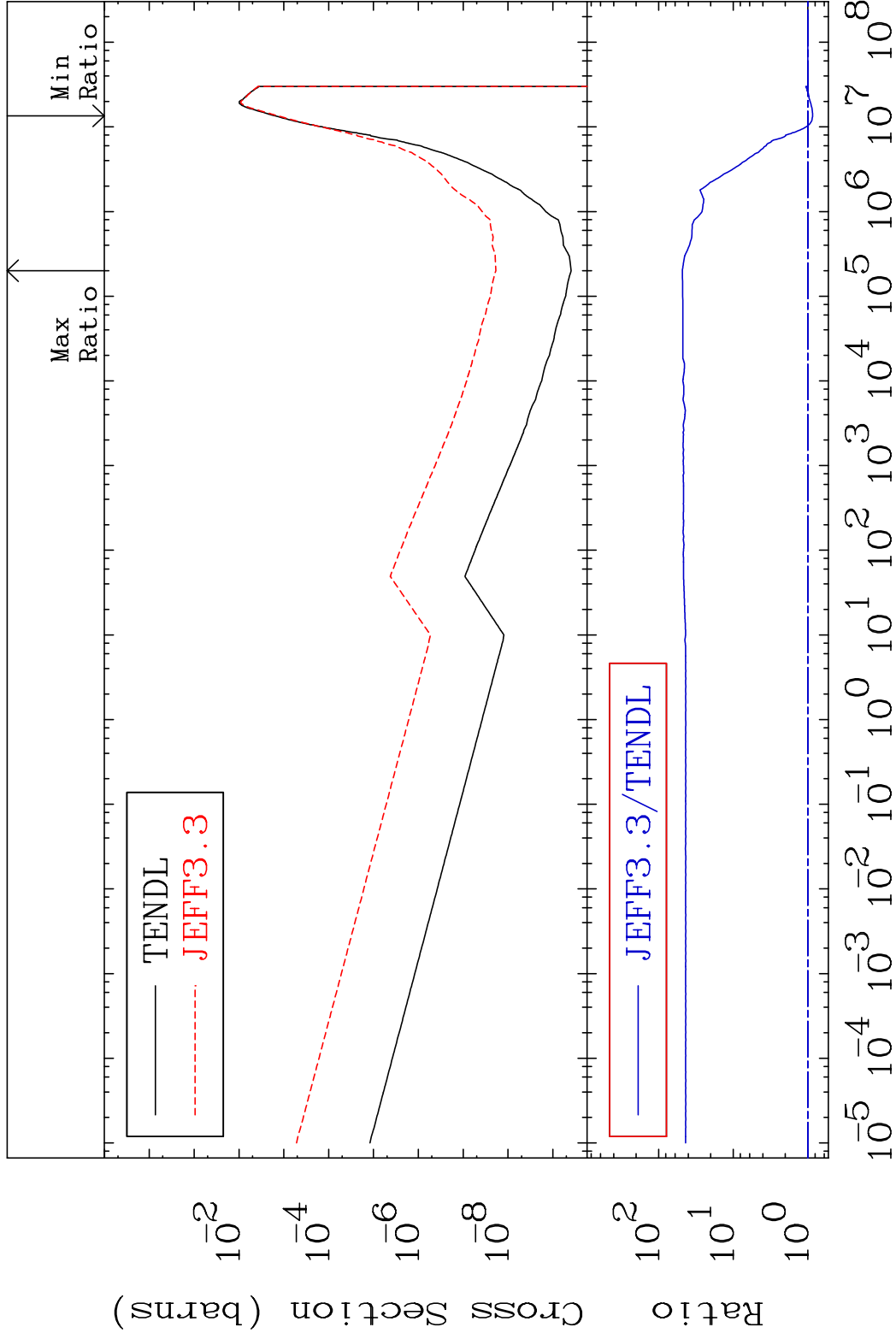
54-Xe-131

MAT 5446

(n, α)

54-Xe-131

Cross Section -13.70 To 4702. %



42

Incident Energy (eV)

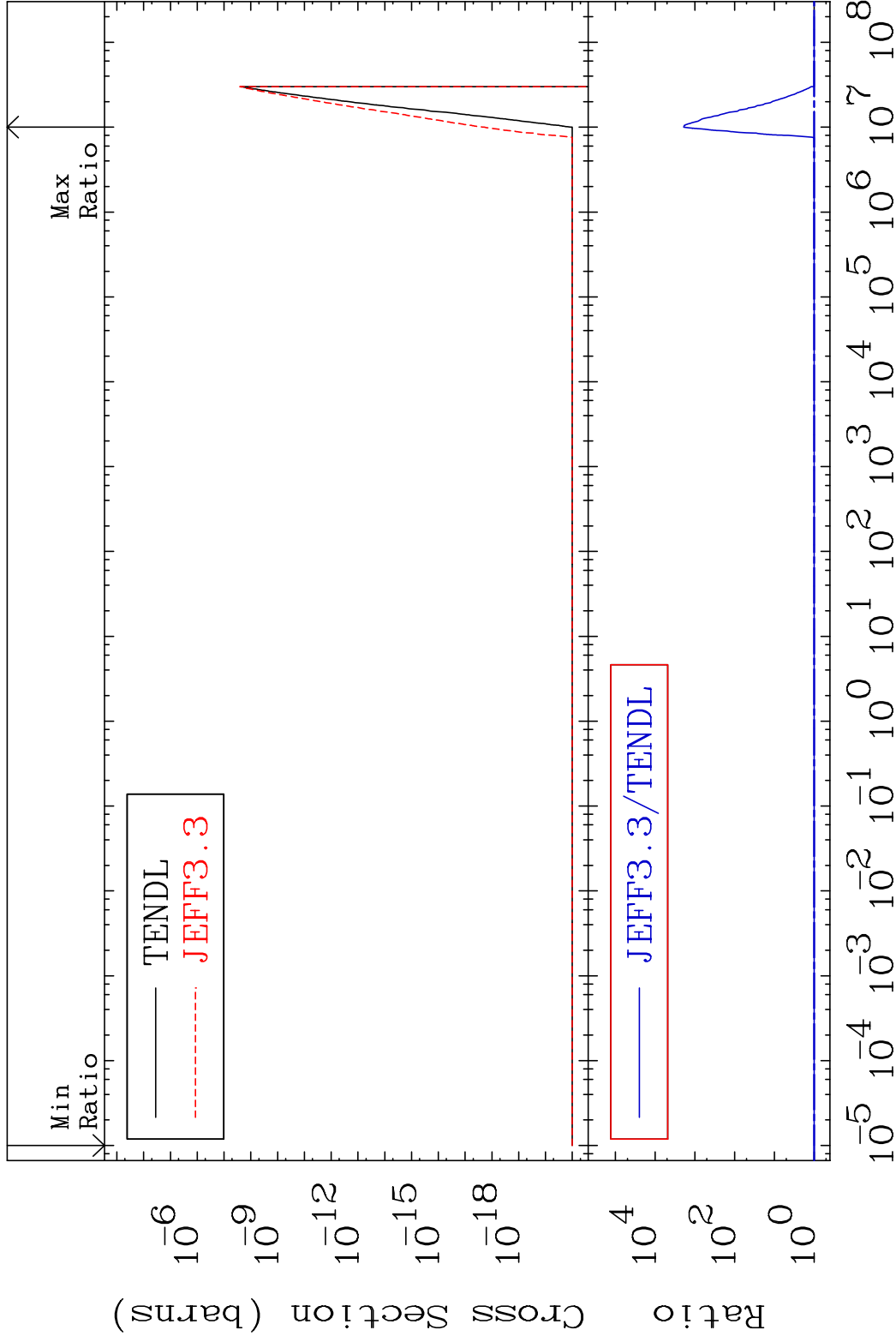
54-Xe-131

MAT 5446

(n,2α)

54-Xe-131

Cross Section 0.000 To 9999. %



43

Incident Energy (eV)

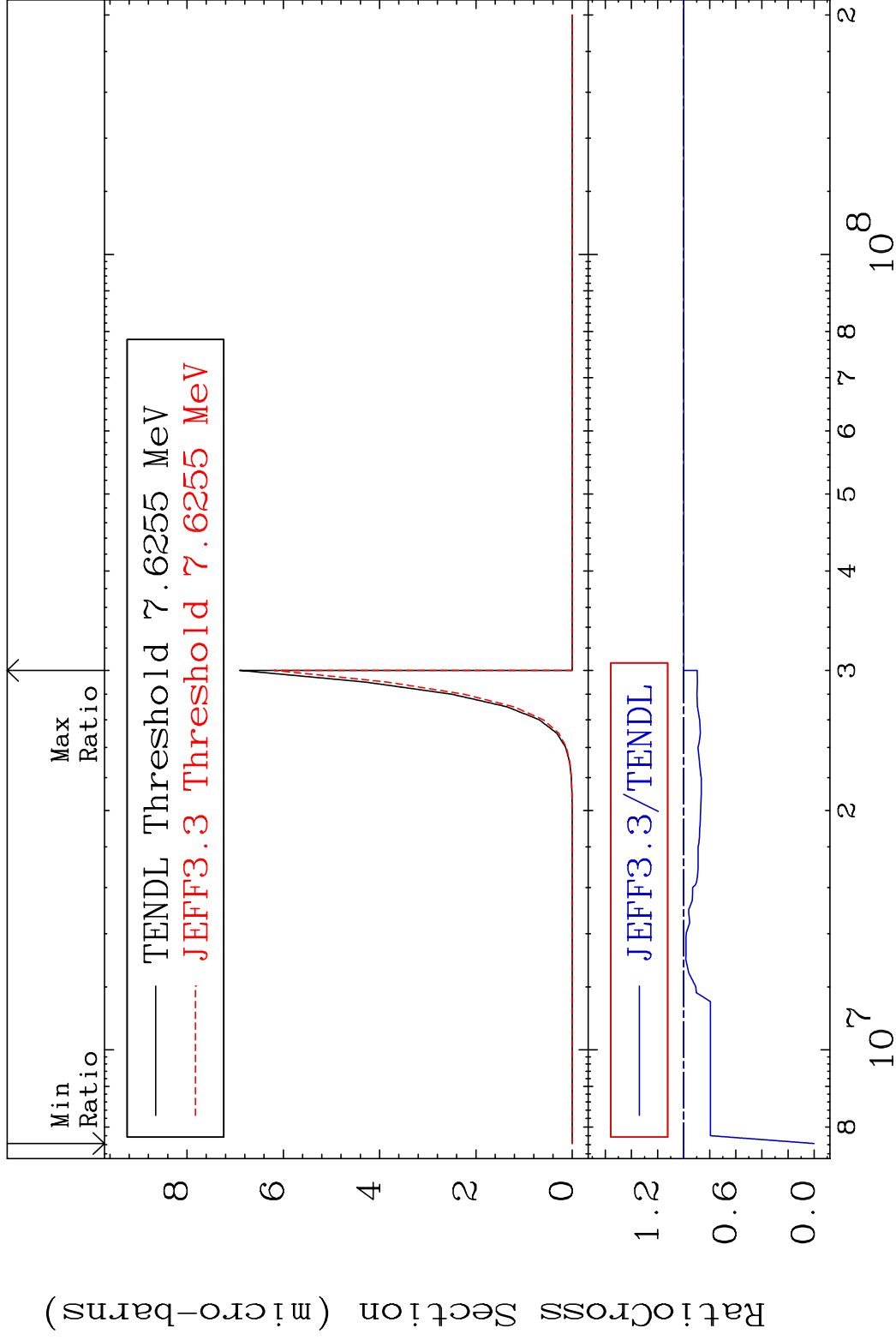
54-Xe-131

MAT 5446

(n,2p)

54-Xe-131

Cross Section -100.0 To 0.000 %



44

Incident Energy (eV)

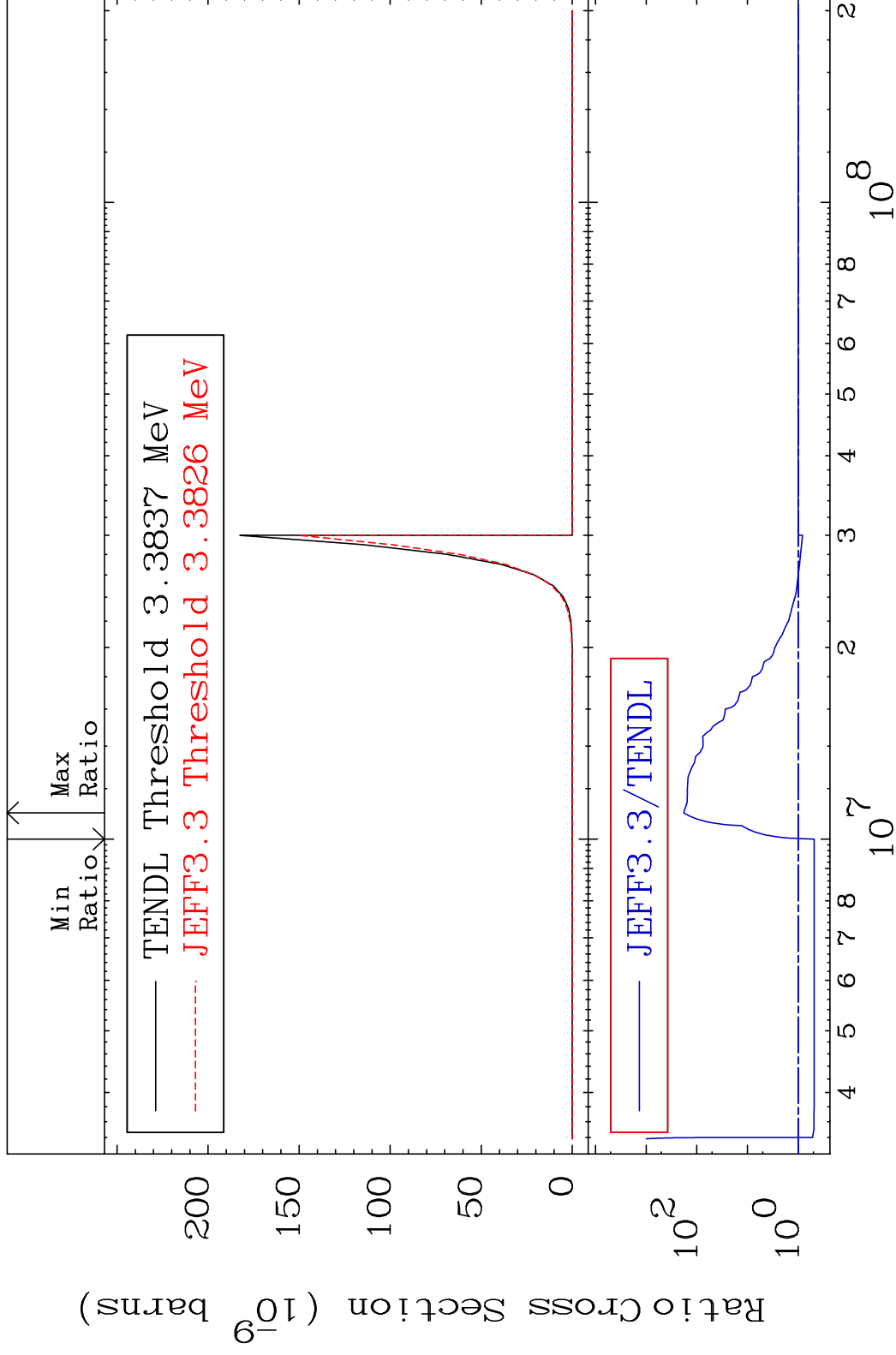
54-Xe-131

MAT 5446

(n,p) α

54-Xe-131

Cross Section -51.34 To 9999. %



45

Incident Energy (eV)

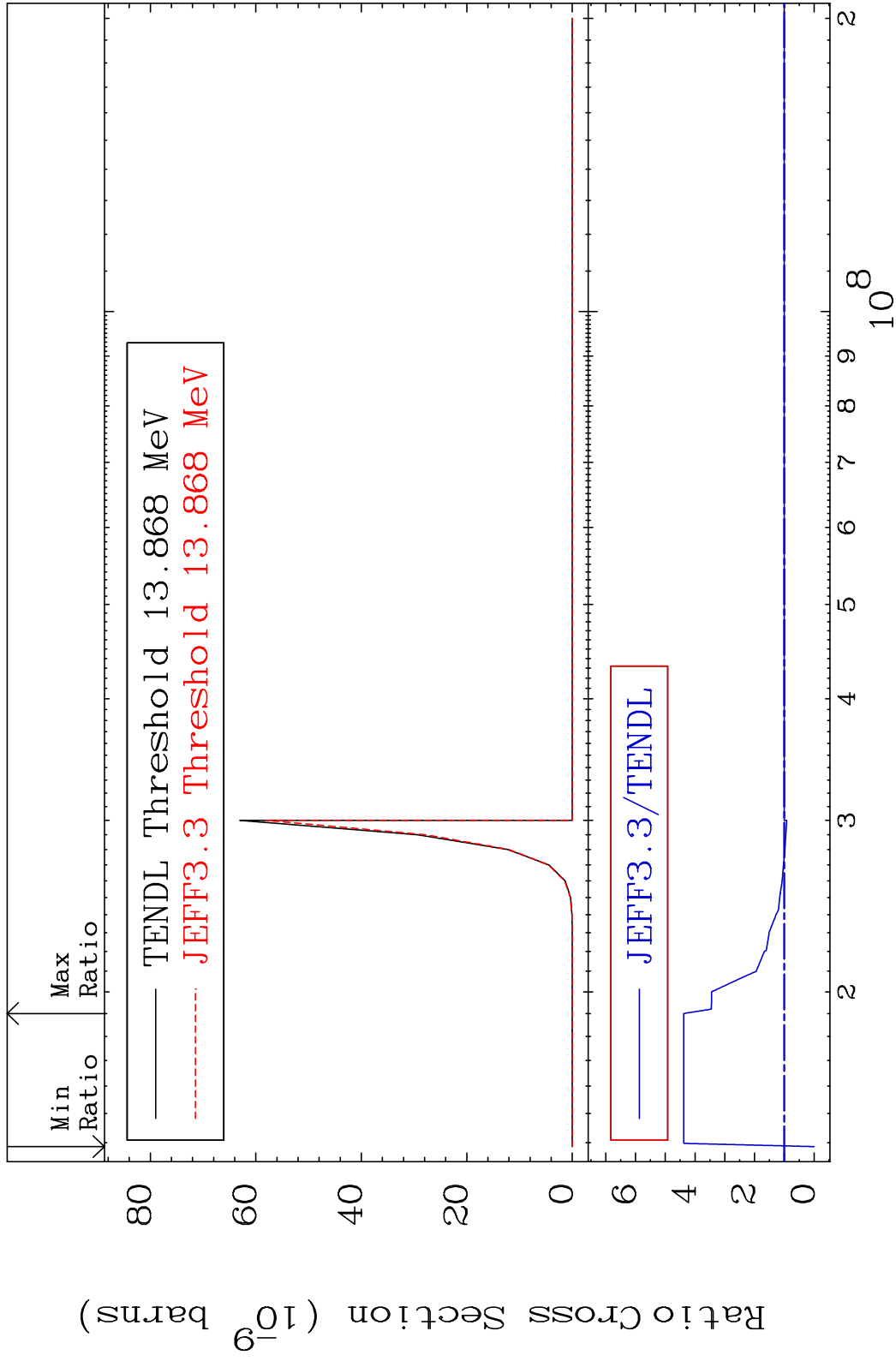
54-Xe-131

MAT 5446

(n,p) d

54-Xe-131

Cross Section -100.0 To 338.2 %



46

Incident Energy (eV)

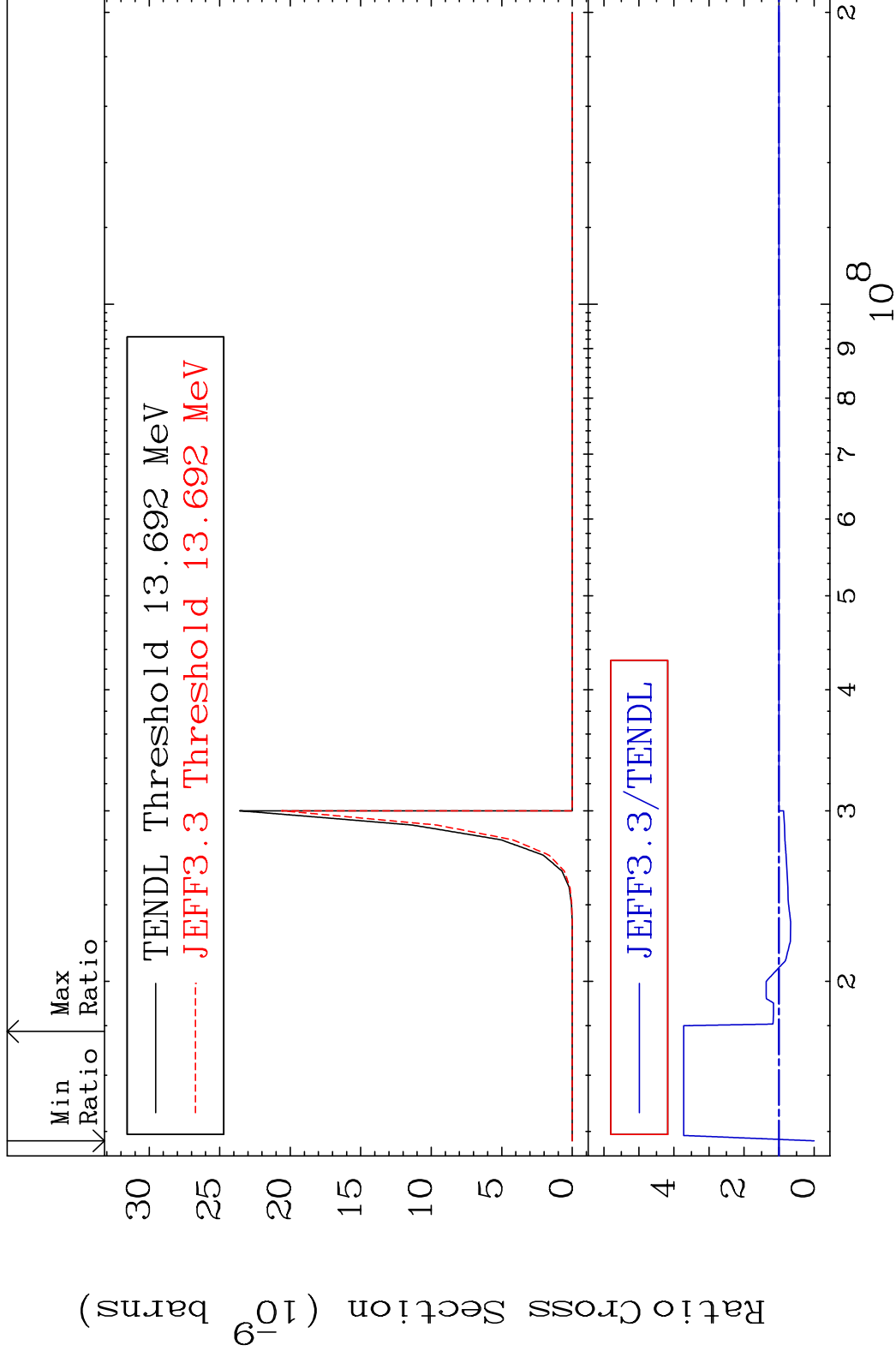
54-Xe-131

MAT 5446

(n,p) t

54-Xe-131

Cross Section -100.0 To 272.3 %



47

Incident Energy (eV)

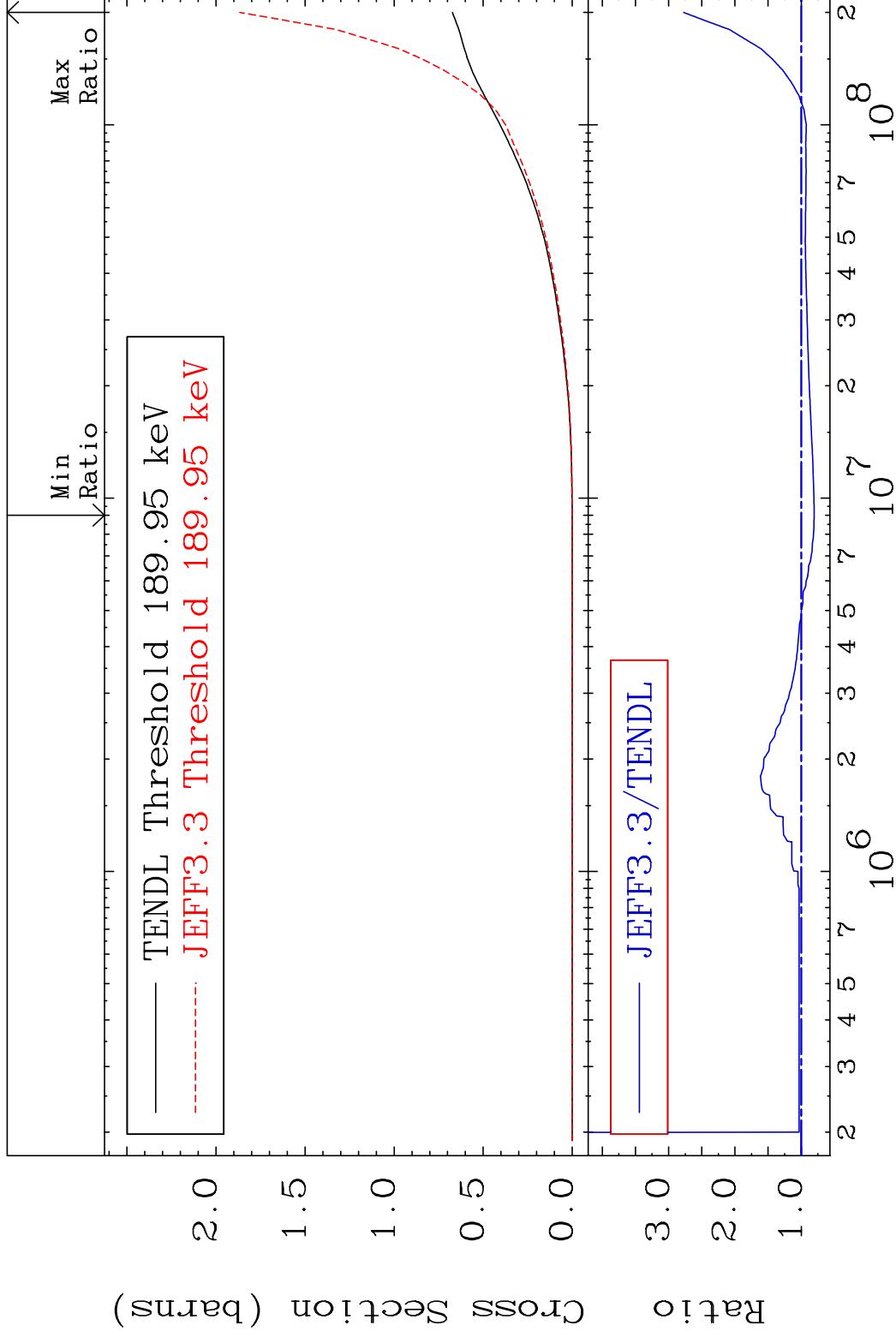
54-Xe-131

MAT 5446

Hydrogen Production

54-Xe-131

Cross Section -19.38 To 177.3 %

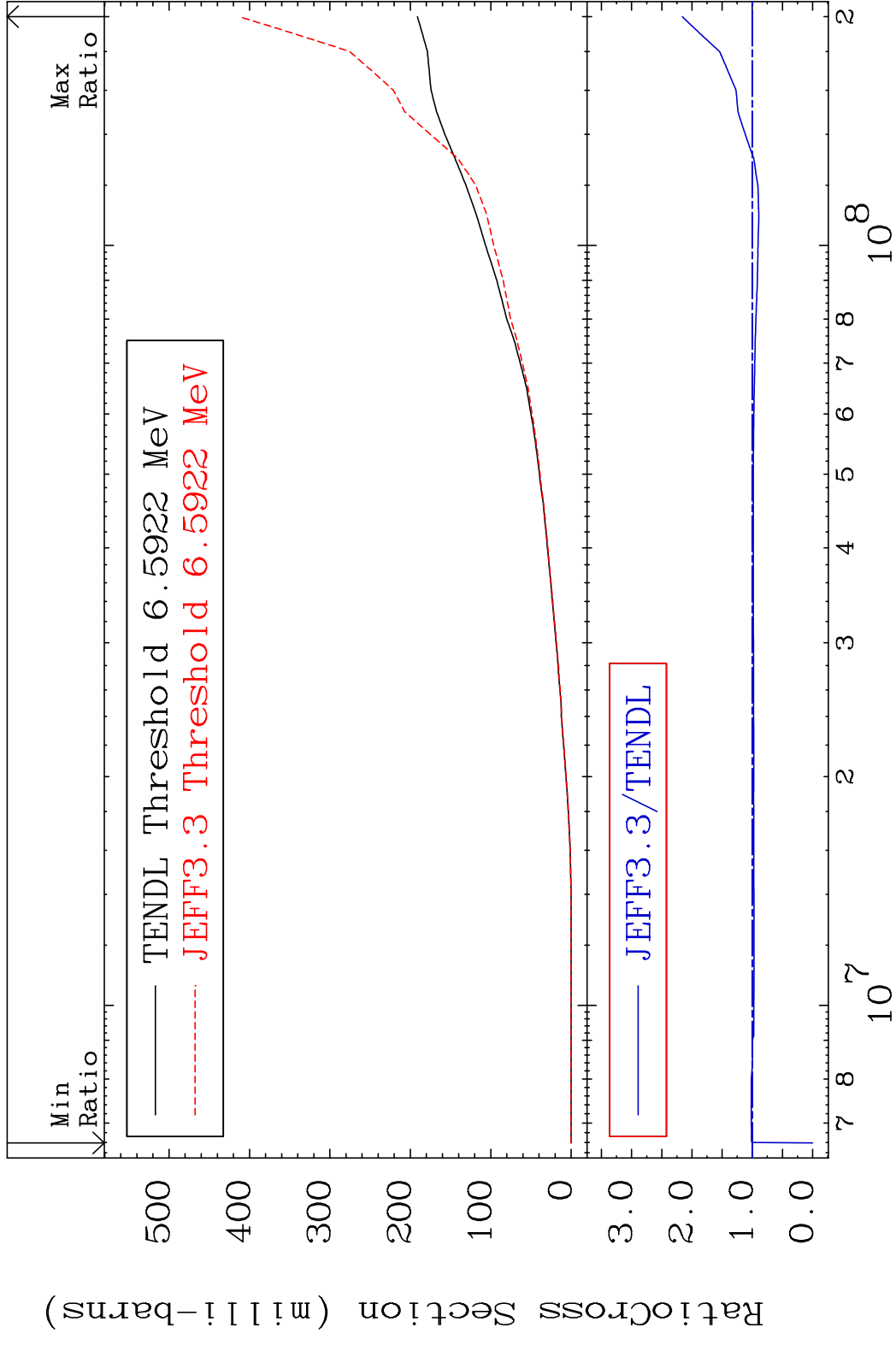


48

Incident Energy (eV)

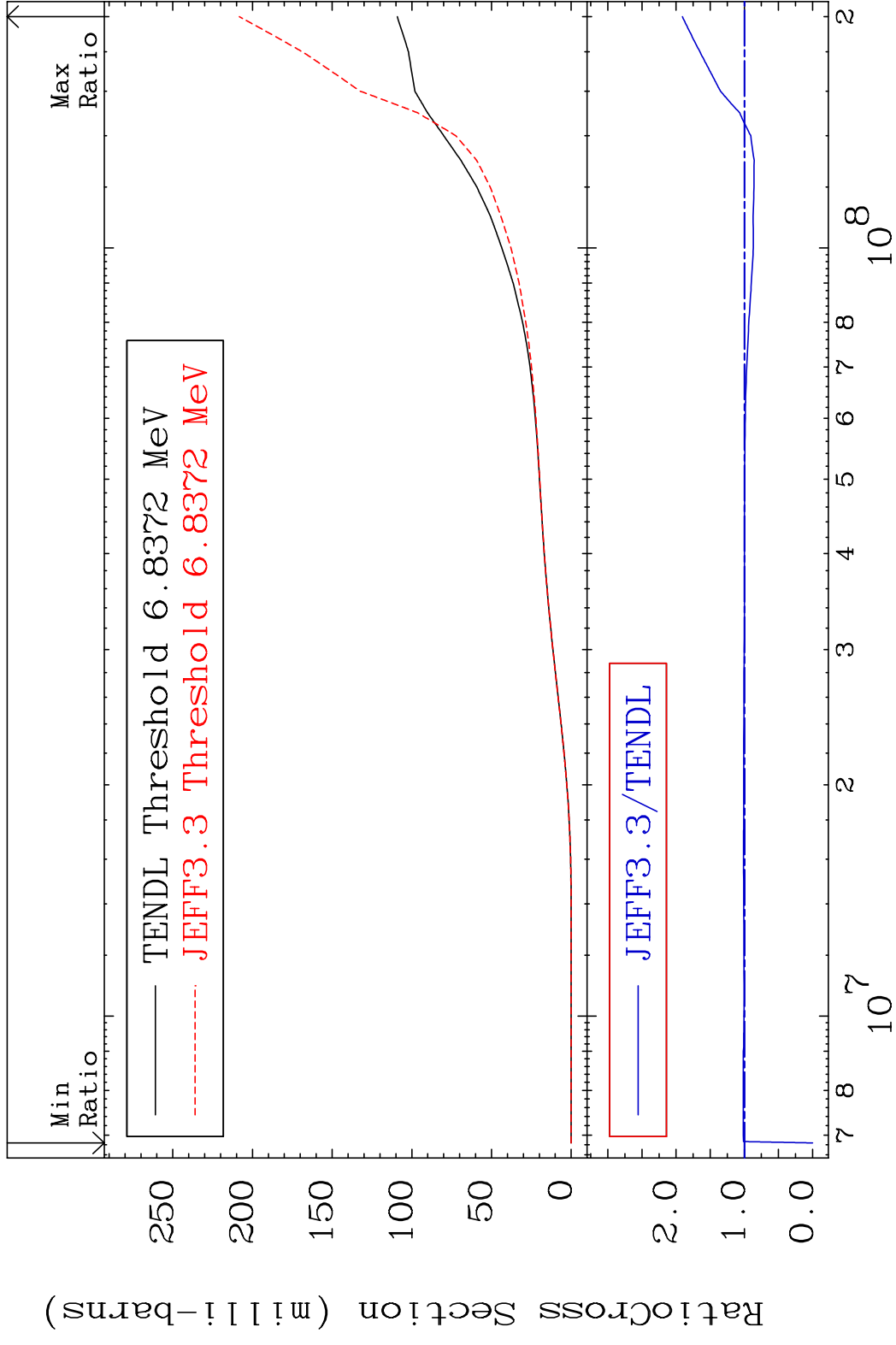
54-Xe-131

MAT 5446 Deuterium Production 54-Xe-131
 Cross Section -100.0 To 115.9 %



49 Incident Energy (eV) 54-Xe-131

MAT 5446 Tritium Production 54-Xe-131
 Cross Section -100.0 To 90.82 %

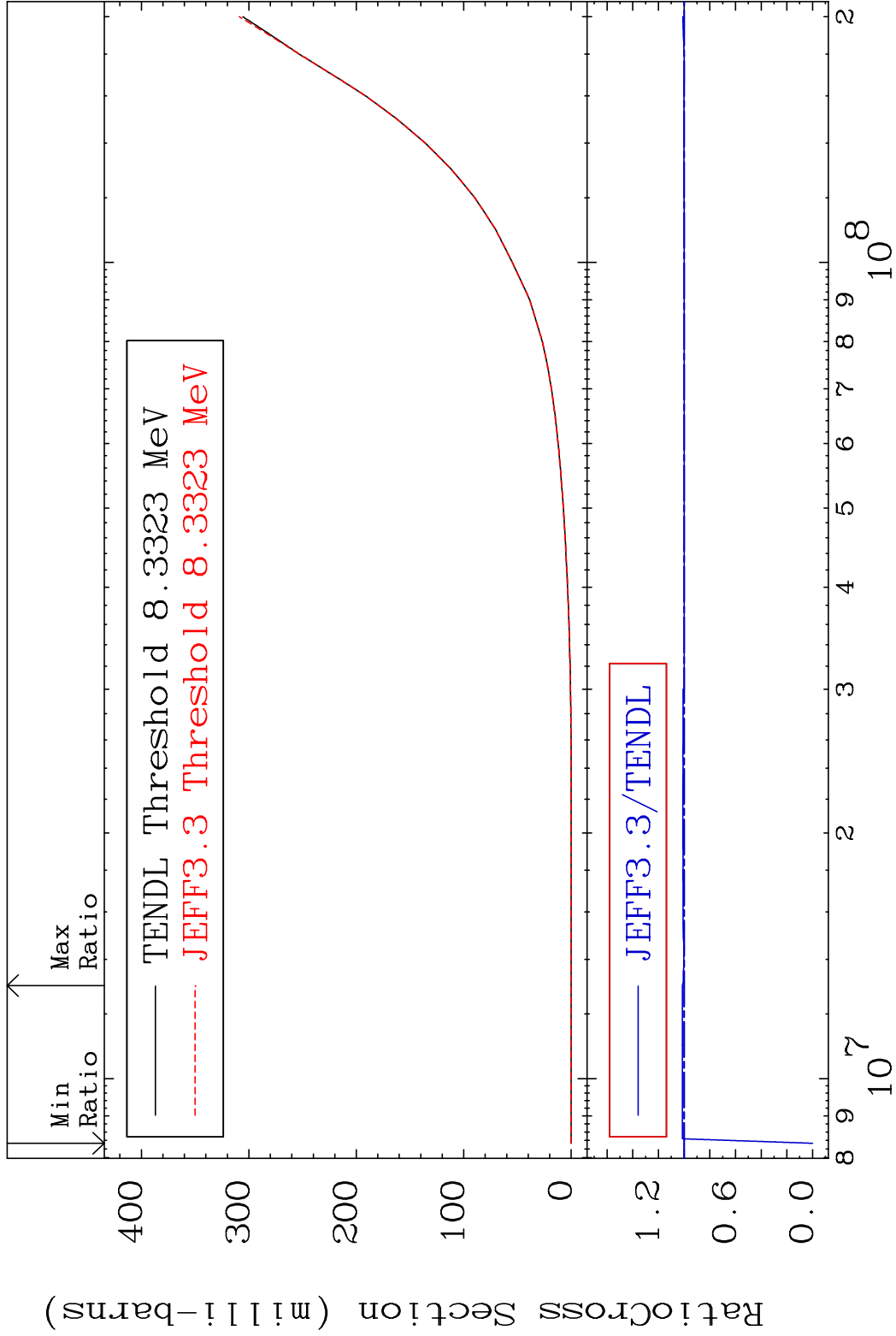


MAT 5446

He-3 Production

54-Xe-131

Cross Section -100.0 To 1.382 %



51

Incident Energy (eV)

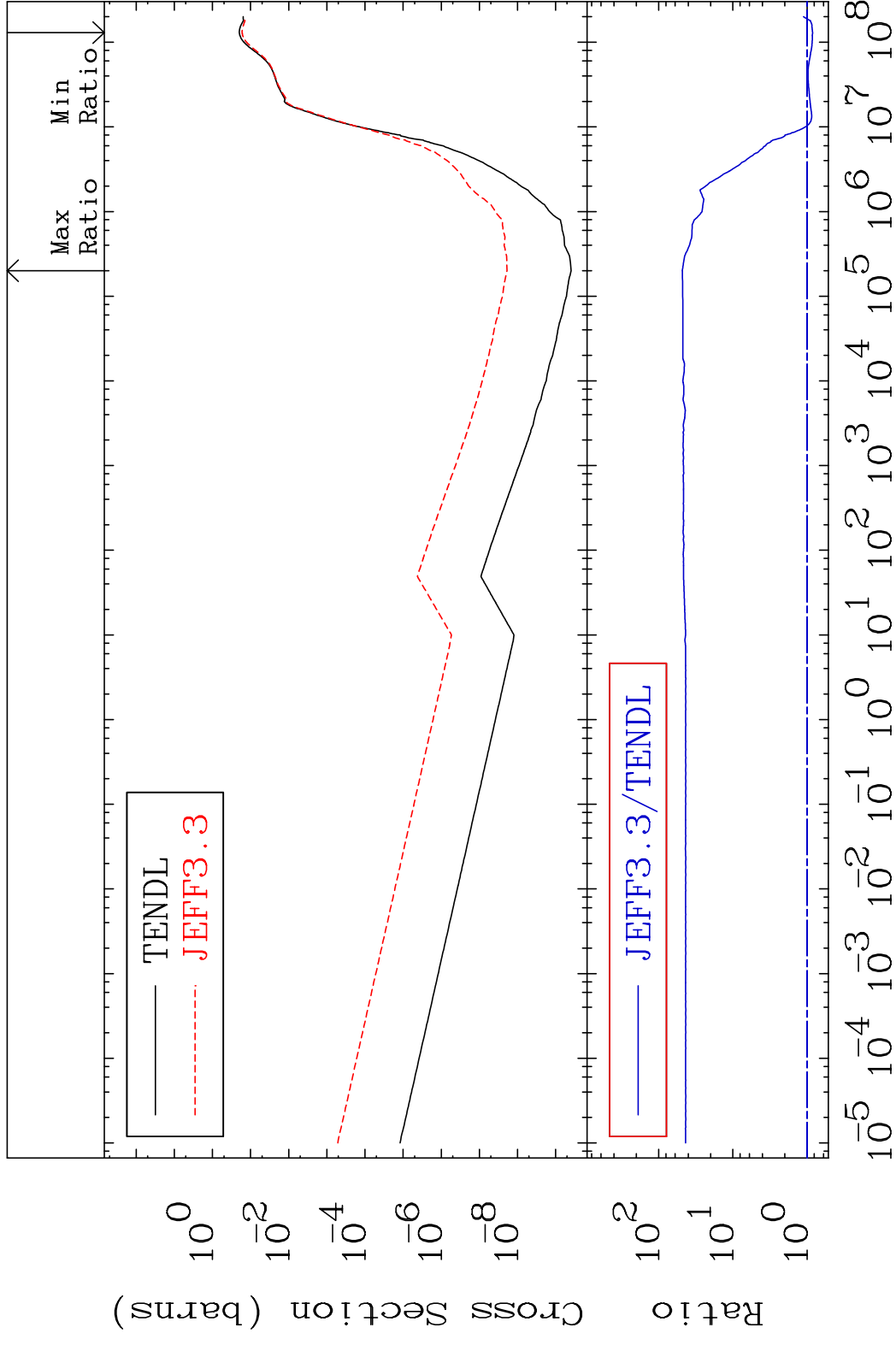
54-Xe-131

MAT 5446

He-4 Production

54-Xe-131

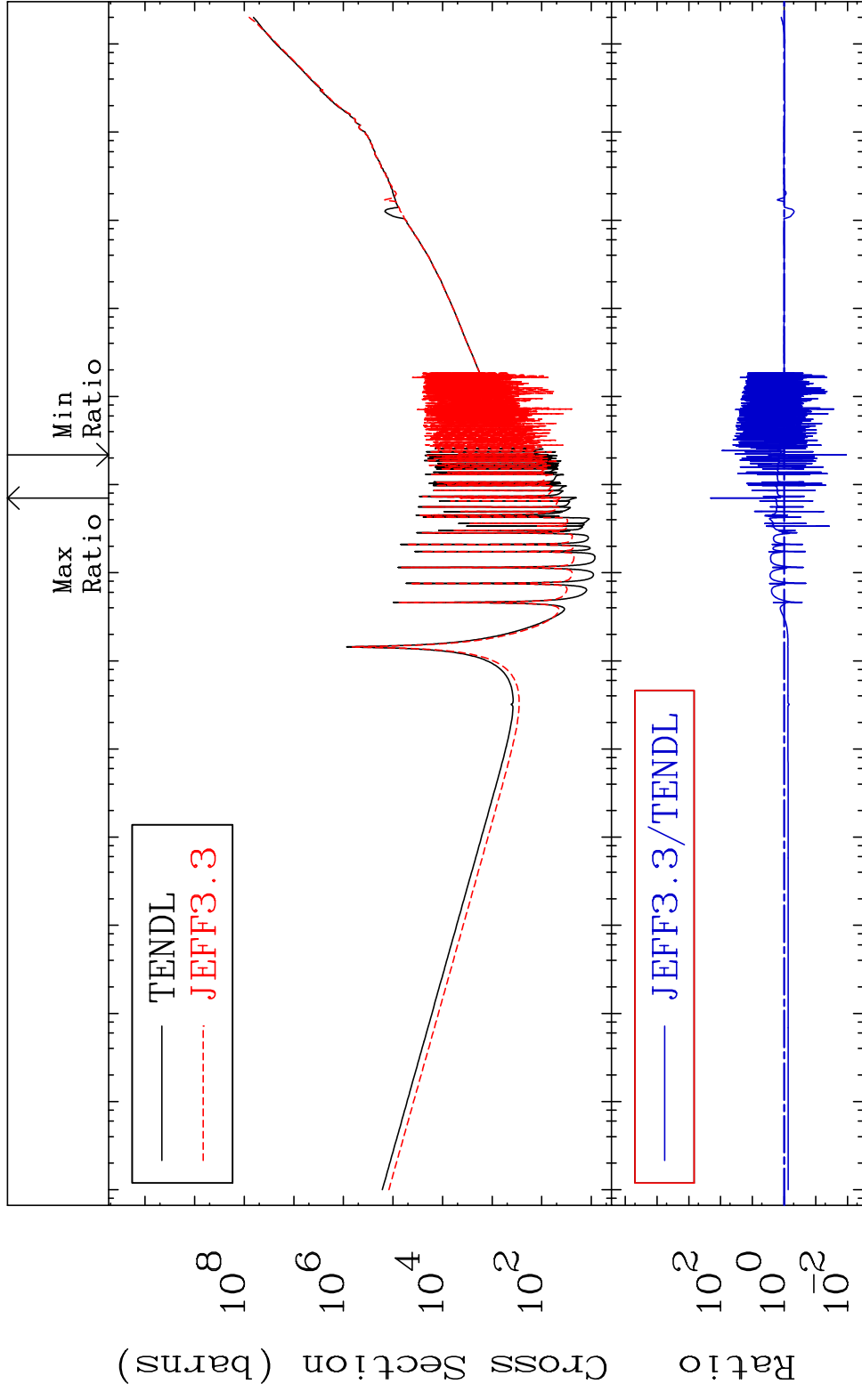
Cross Section -15.66 To 4702. %



MAT 5446

Kerma total (eV-barns) 54-Xe-131

Cross Section -98.91 To 9999. %



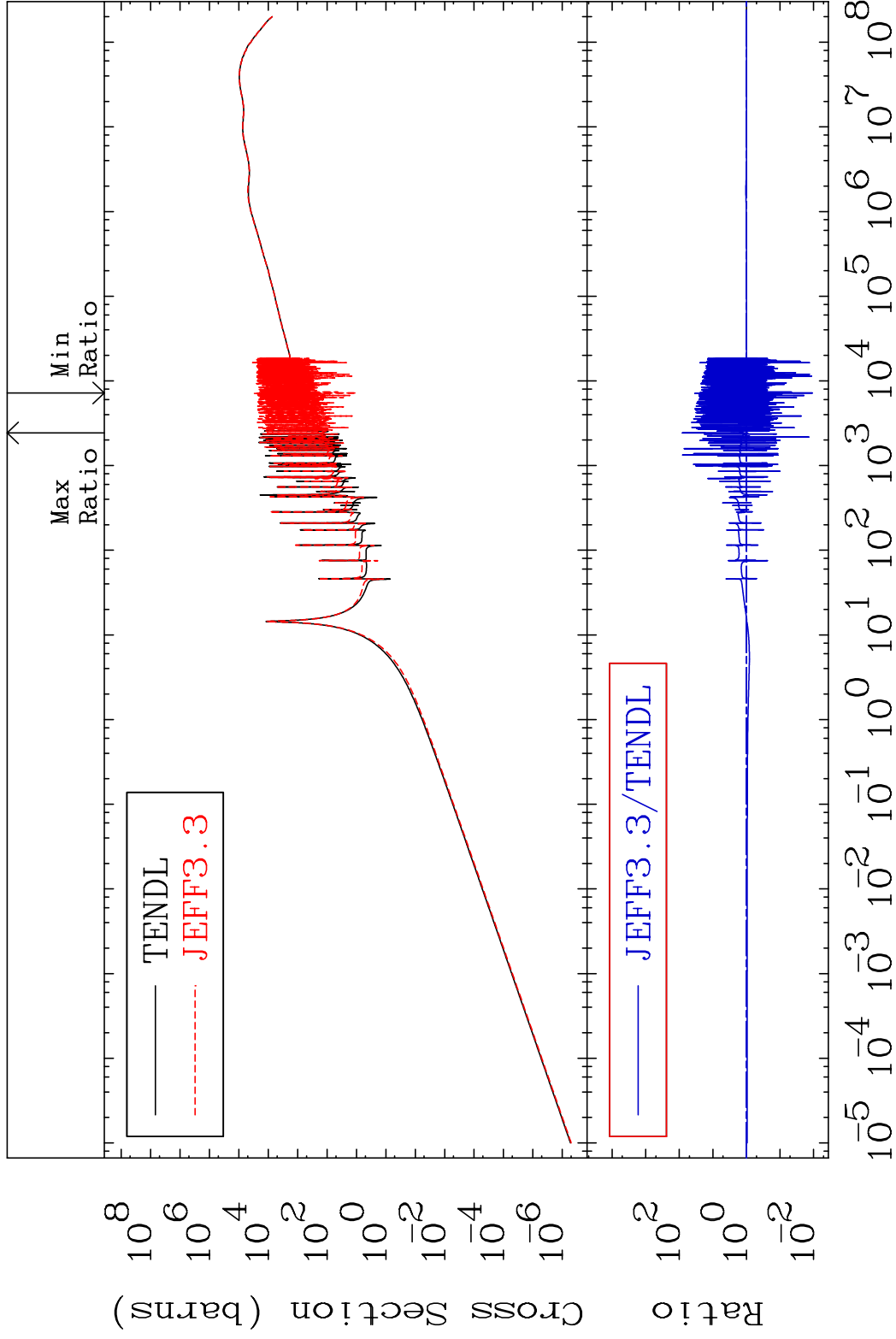
53

Incident Energy (eV)

54-Xe-131

MAT 5446

Kerma elastic Cross Section -98.93 To 8010. %
54-Xe-131

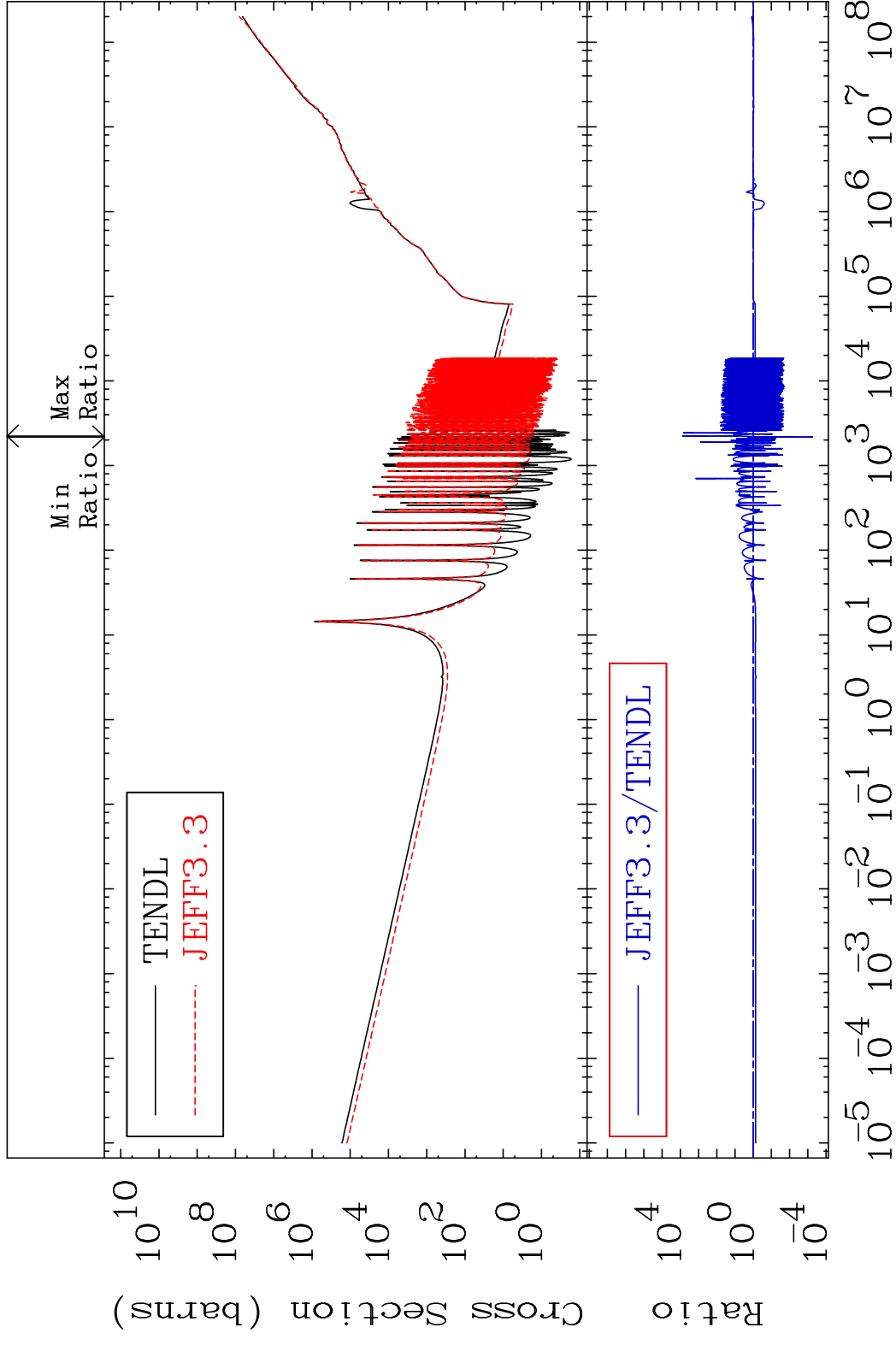


54

Incident Energy (eV)

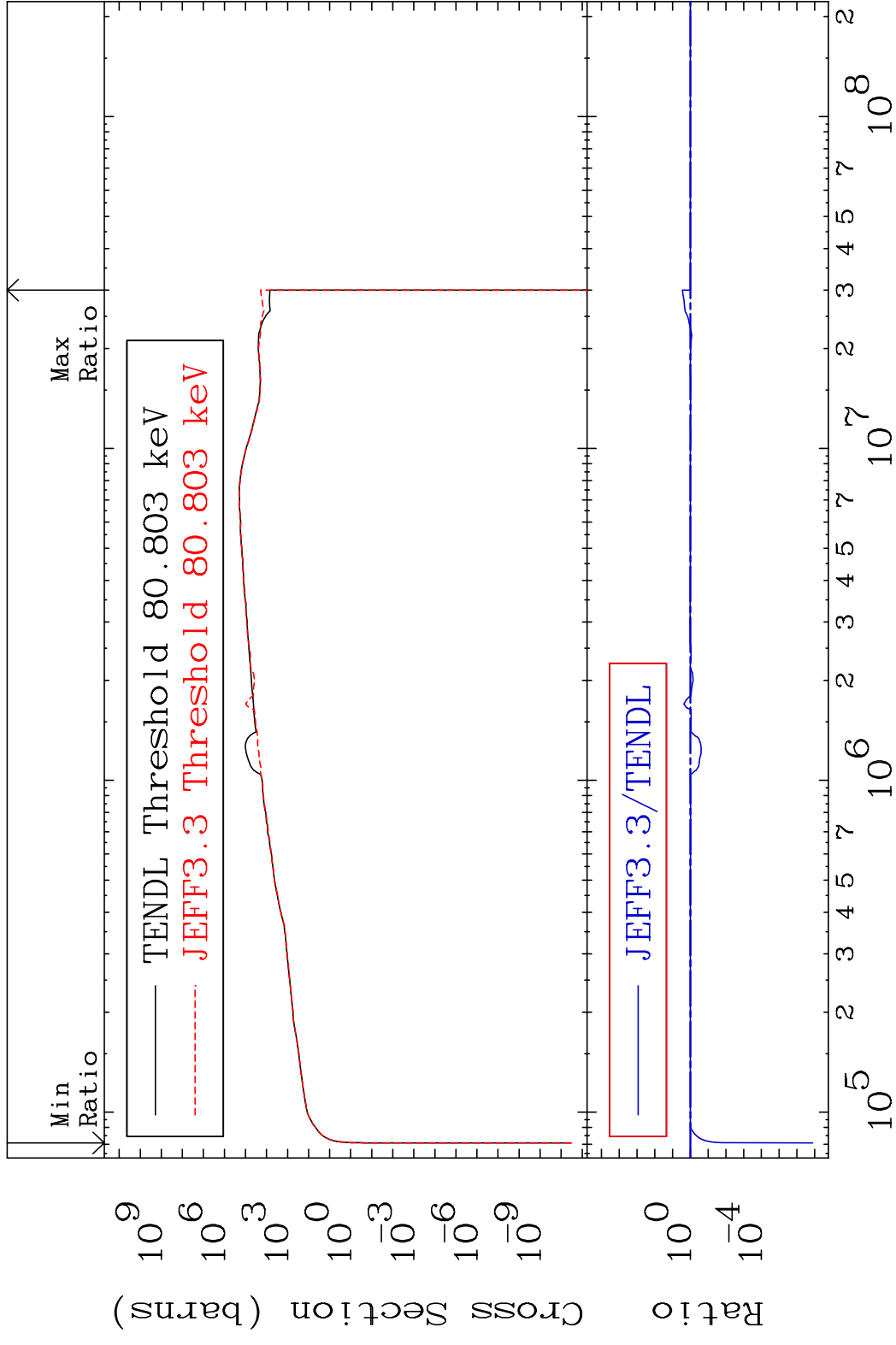
54-Xe-131

MAT 5446 Kerma non-elastic (all but mt2) 54-Xe-131
 Cross Section -99.94 To 9999. %

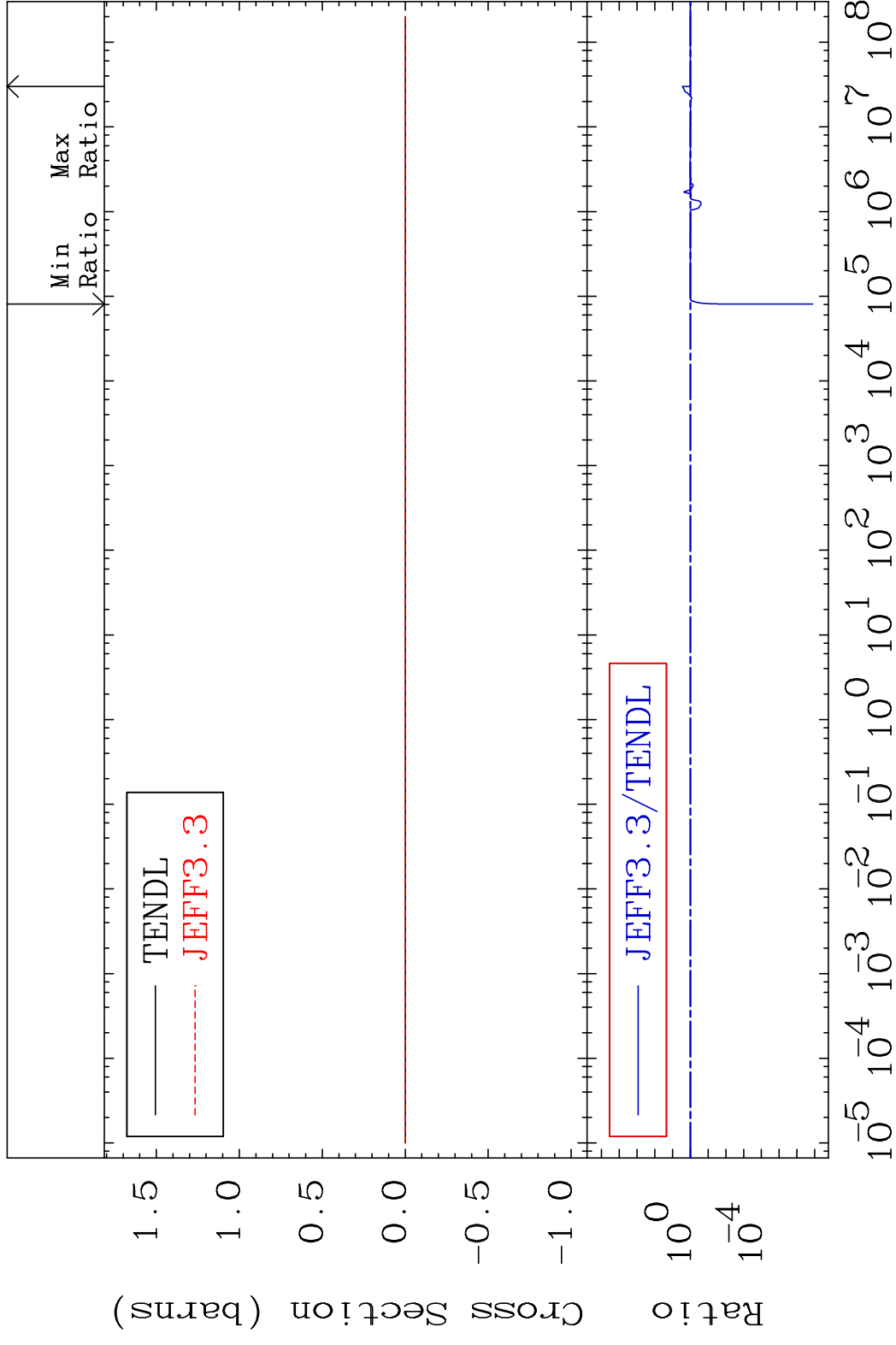


55 Incident Energy (eV) 54-Xe-131

MAT 5446 Kerma inelastic (mt51-91) 54-Xe-131
 Cross Section -100.0 To 181.2 %

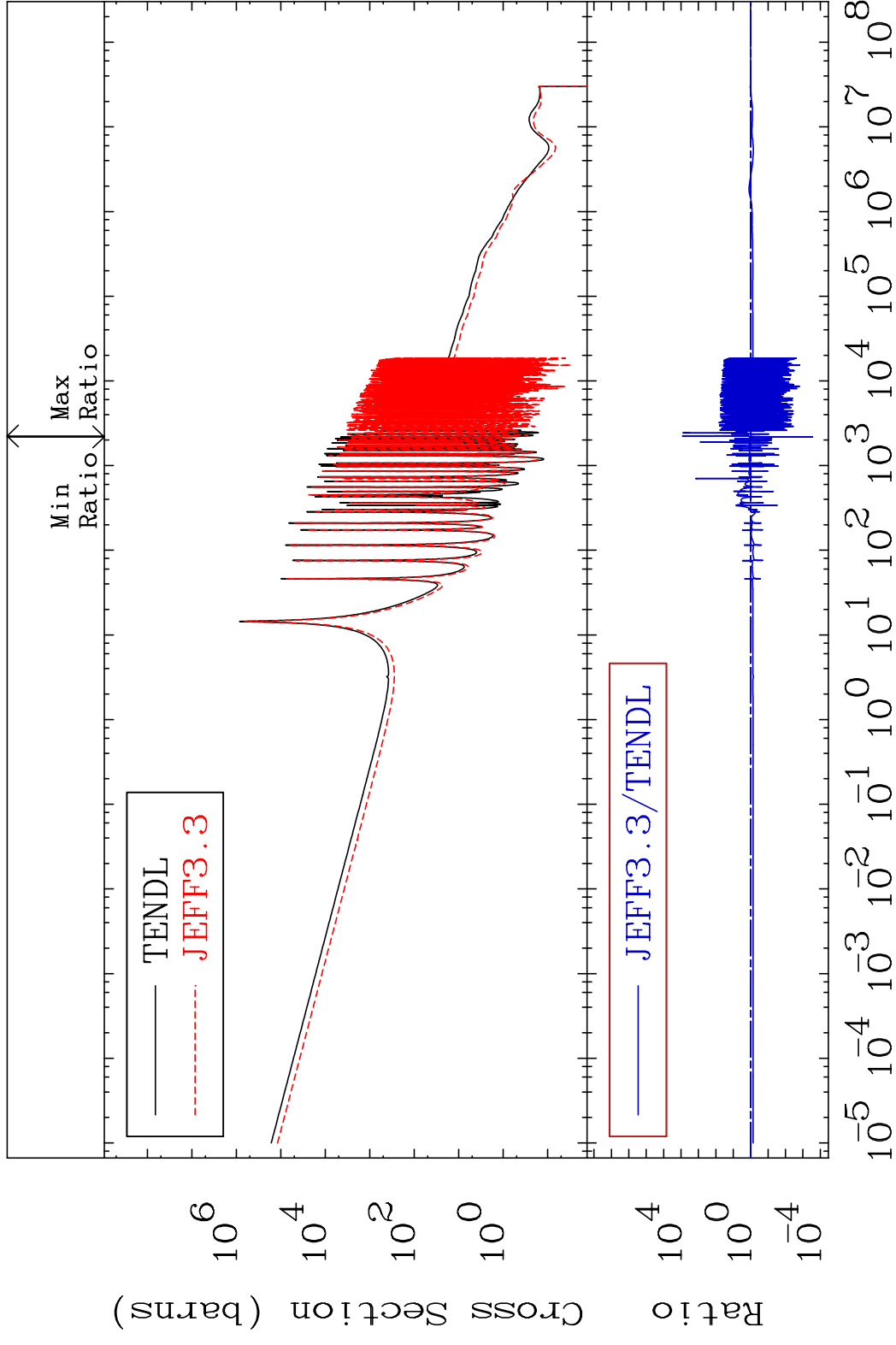


MAT 5446 Kerma fission (mt18 or mt19-20-21-38) 54-Xe-131
 Cross Section -100.0 To 181.2 %



MAT 5446

Kerma capture (mt102) 54-Xe-131
Cross Section -99.97 To 9999. %



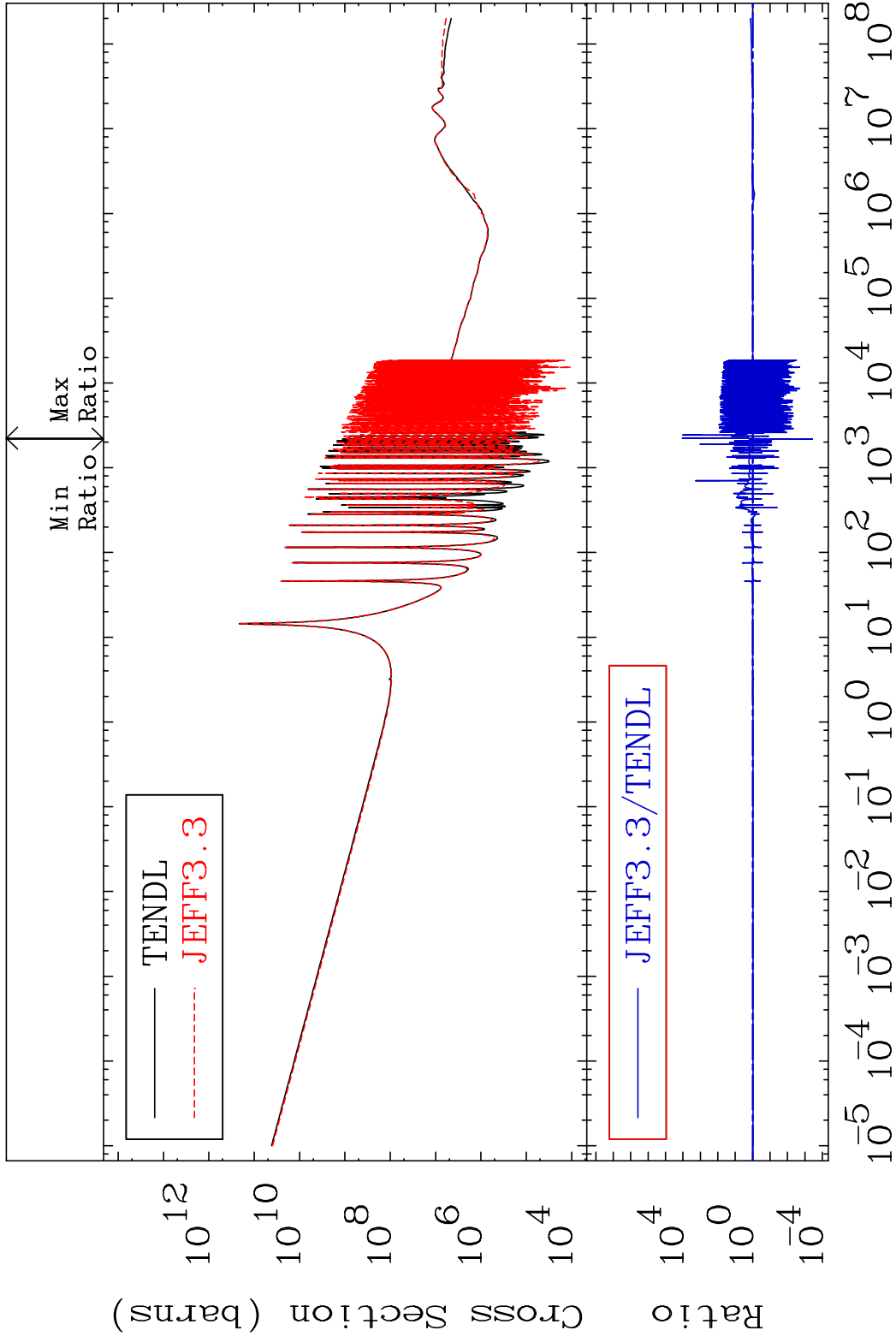
58

Incident Energy (eV)

54-Xe-131

MAT 5446

Total photon (eV-barns) 54-Xe-131
Cross Section -99.96 To 9999. %

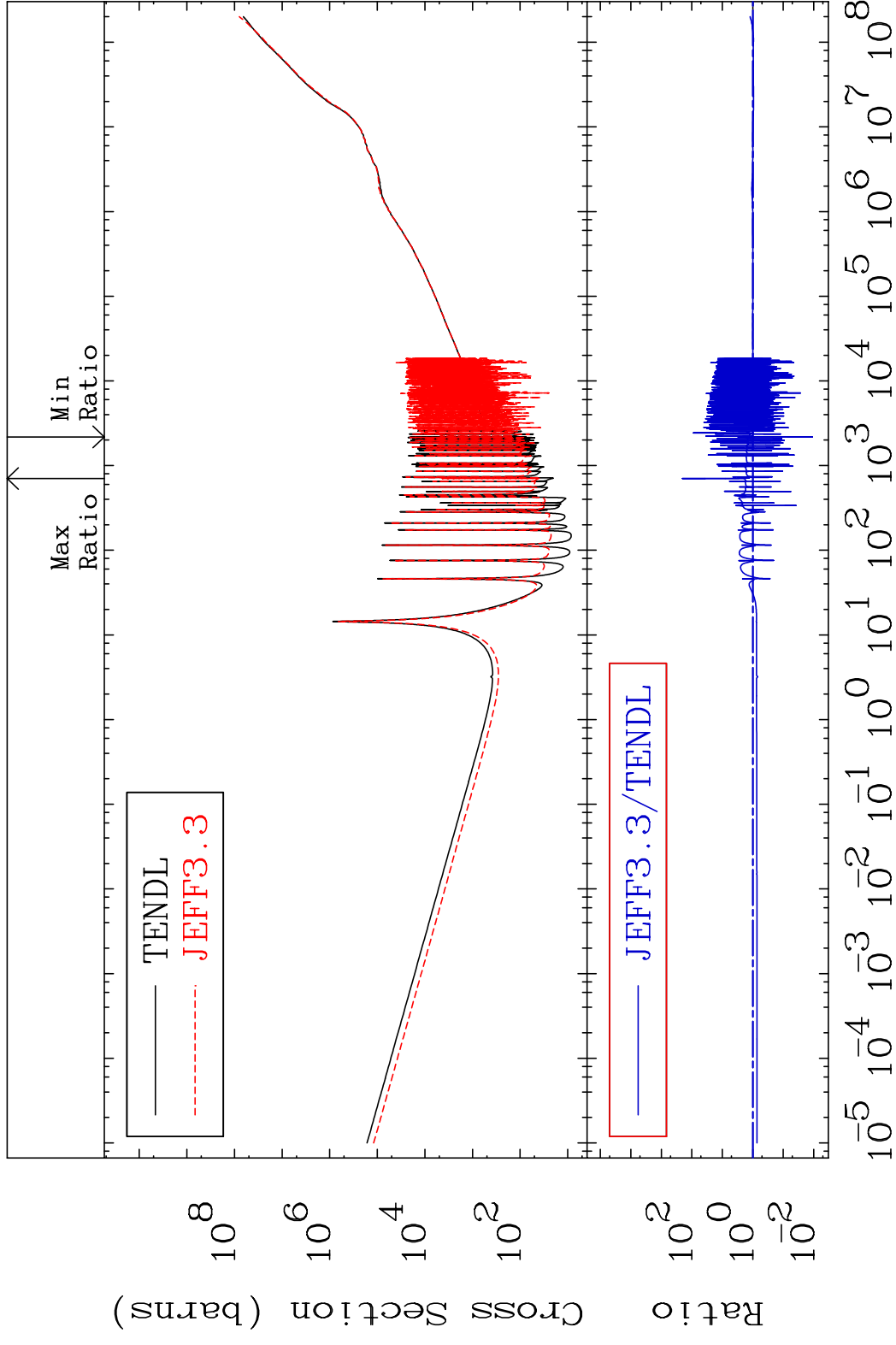


59

Incident Energy (eV)

54-Xe-131

MAT 5446 Total kinematic kerma (high limit) 54-Xe-131
 Cross Section -98.91 To 9999. %

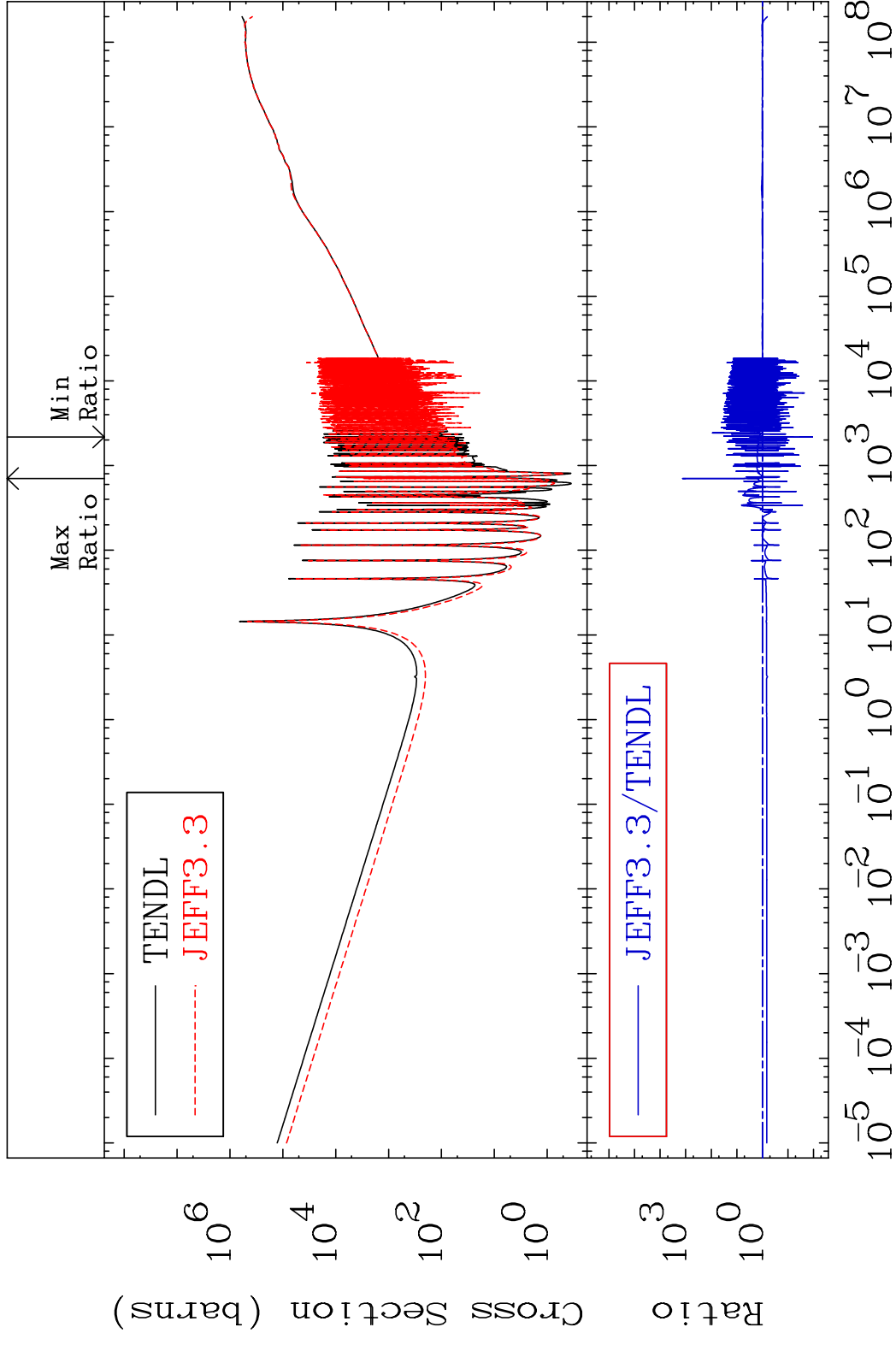


MAT 5446

Dpa total (eV-barns)

54-Xe-131

Cross Section -98.92 To 9999. %



61

Incident Energy (eV)

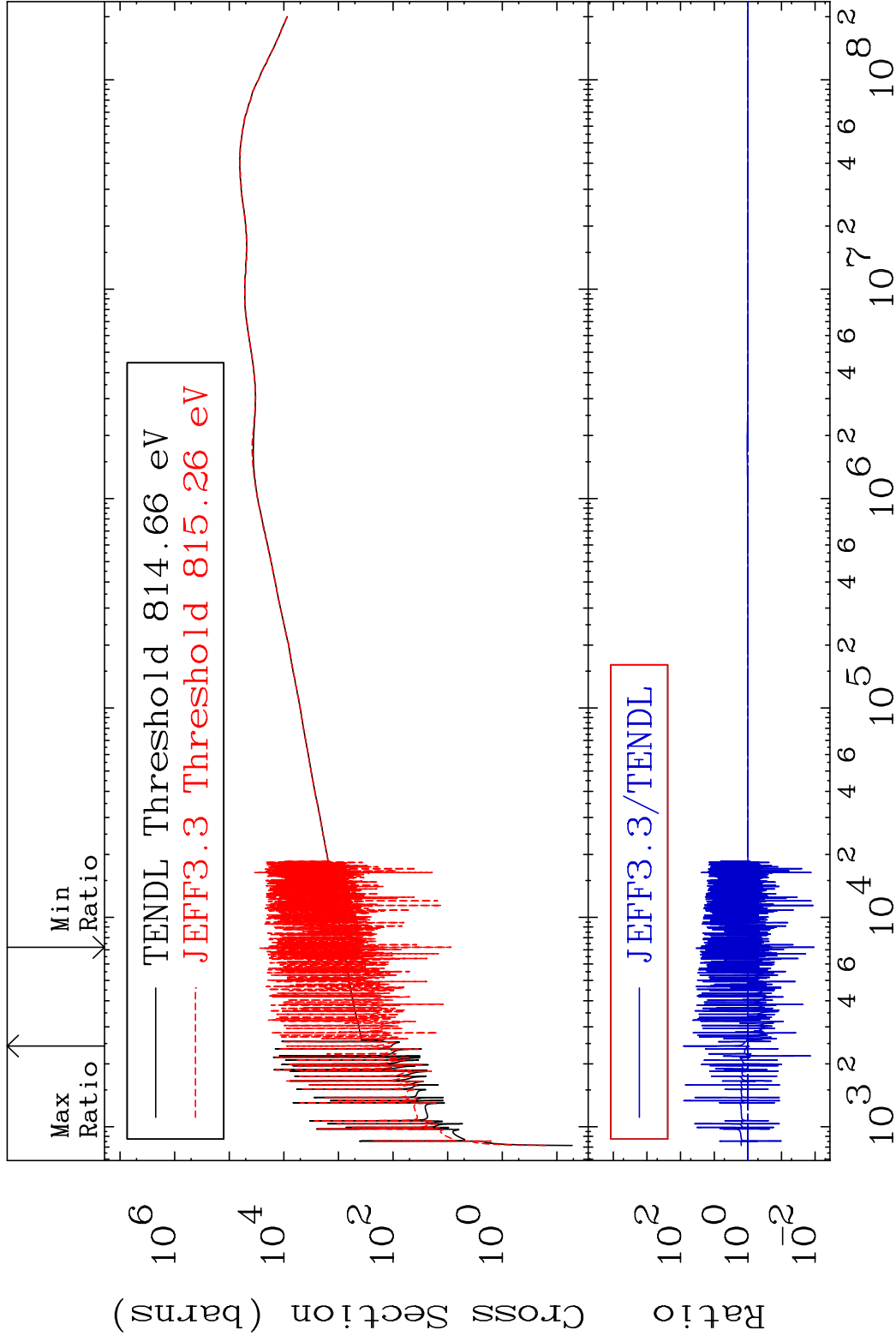
54-Xe-131

MAT 5446

Dpa elastic (mt2)

54-Xe-131

Cross Section -98.93 To 8010. %



62

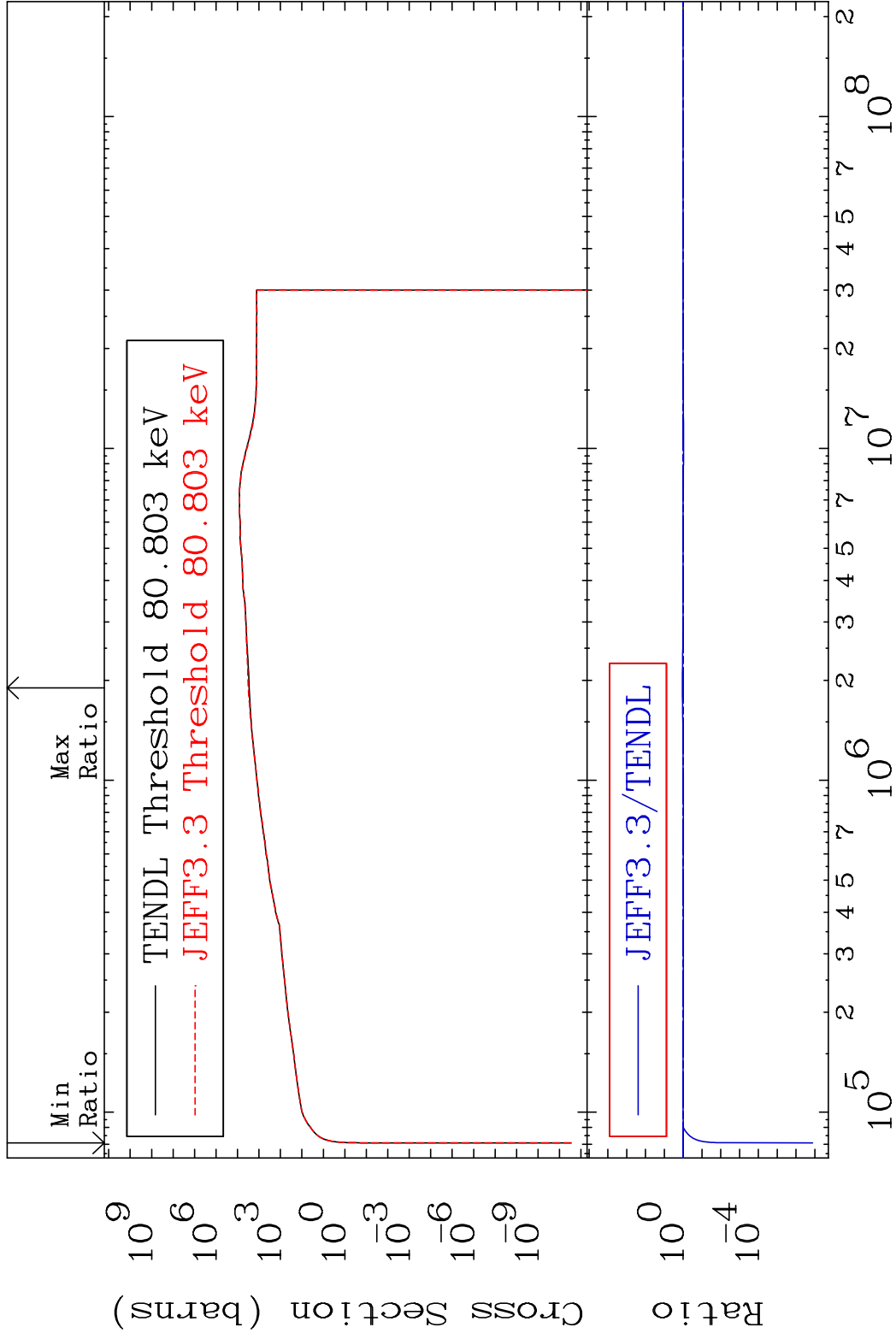
Incident Energy (eV)

54-Xe-131

MAT 5446

Dpa inelastic (mt51-91) 54-Xe-131

Cross Section -100.0 To 10.17 %

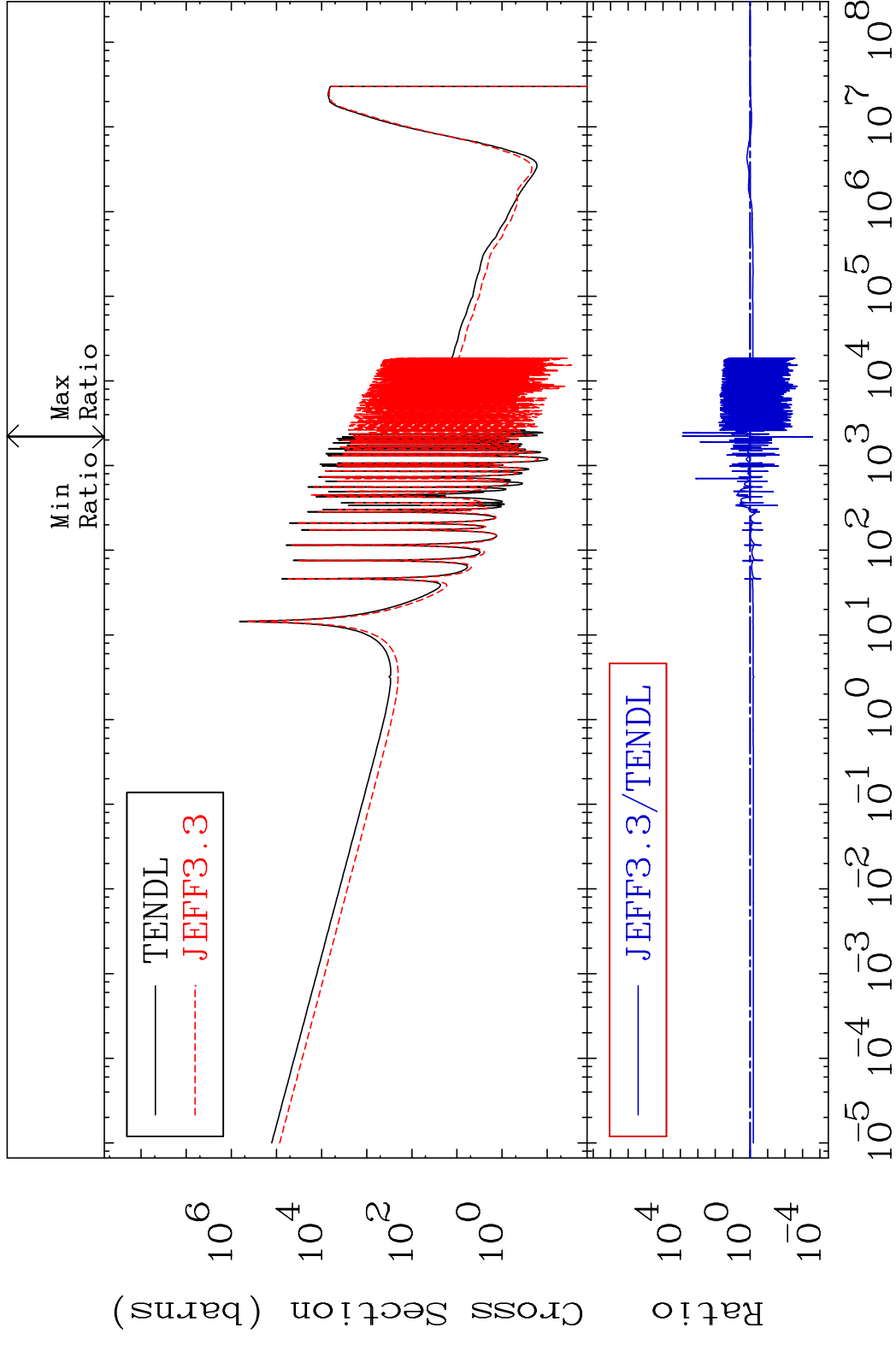


63

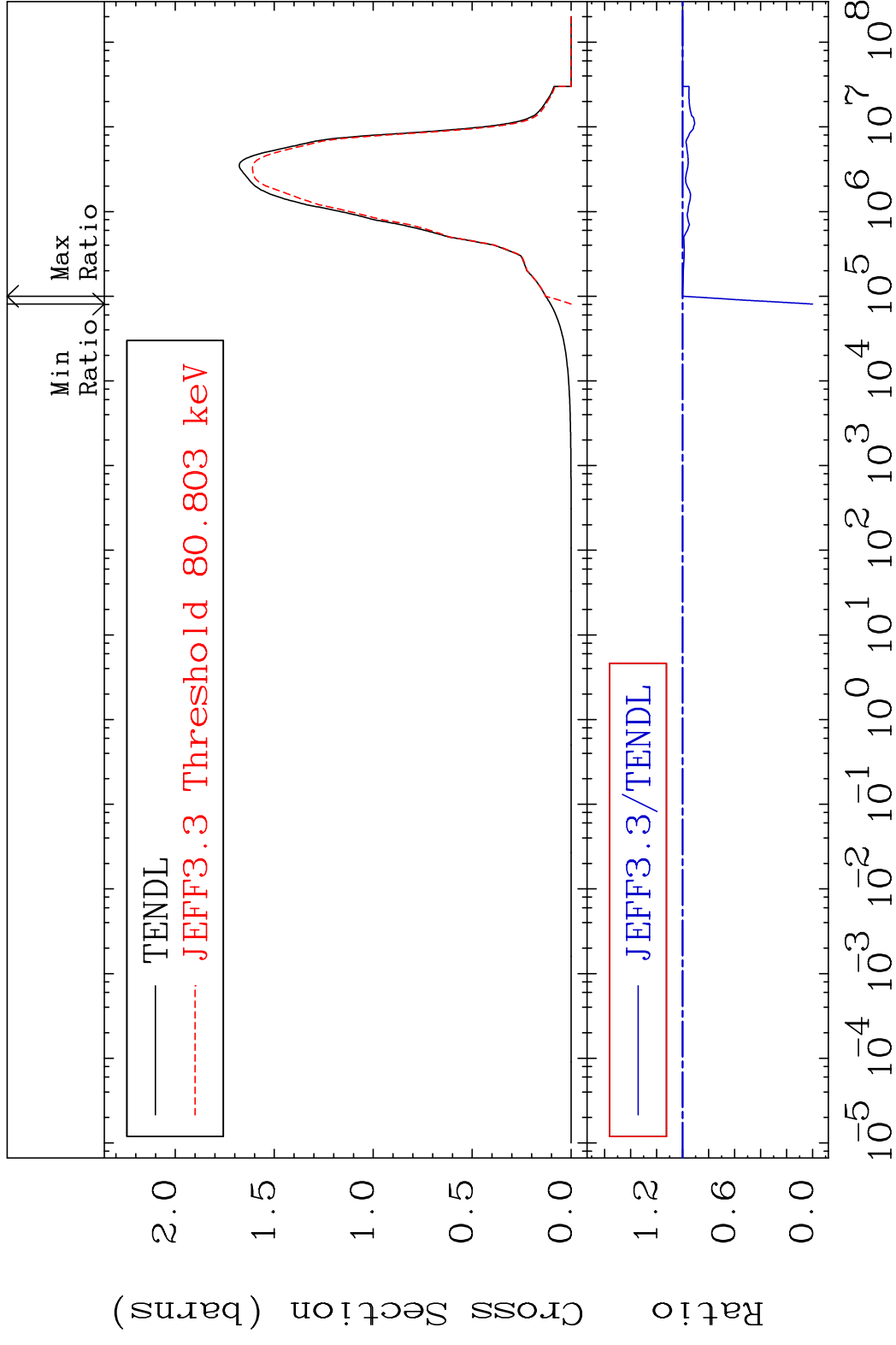
Incident Energy (eV)

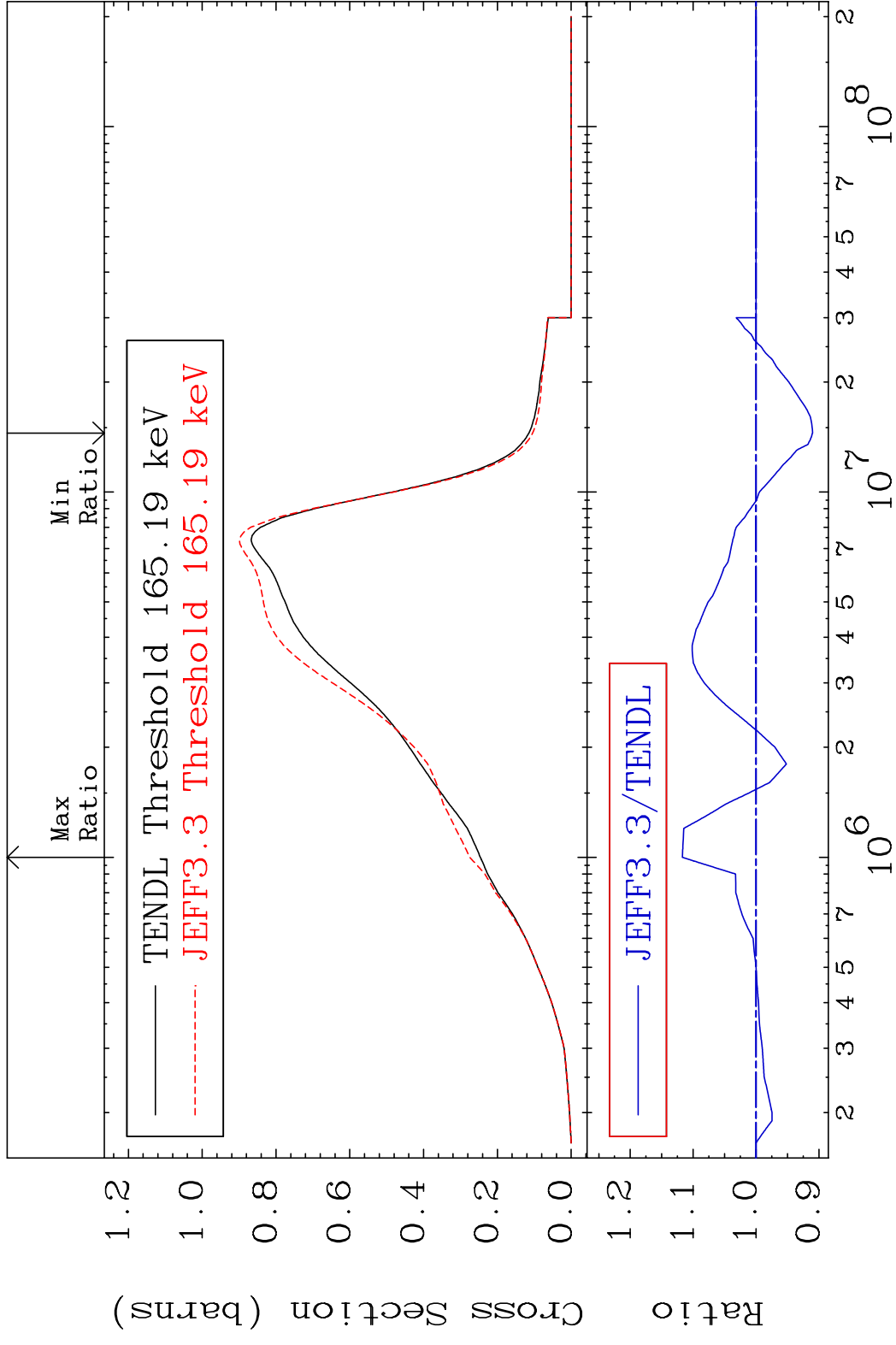
54-Xe-131

MAT 5446 Dpa disappearance (mt102 -120) 54-Xe-131
 Cross Section -99.97 To 9999. %

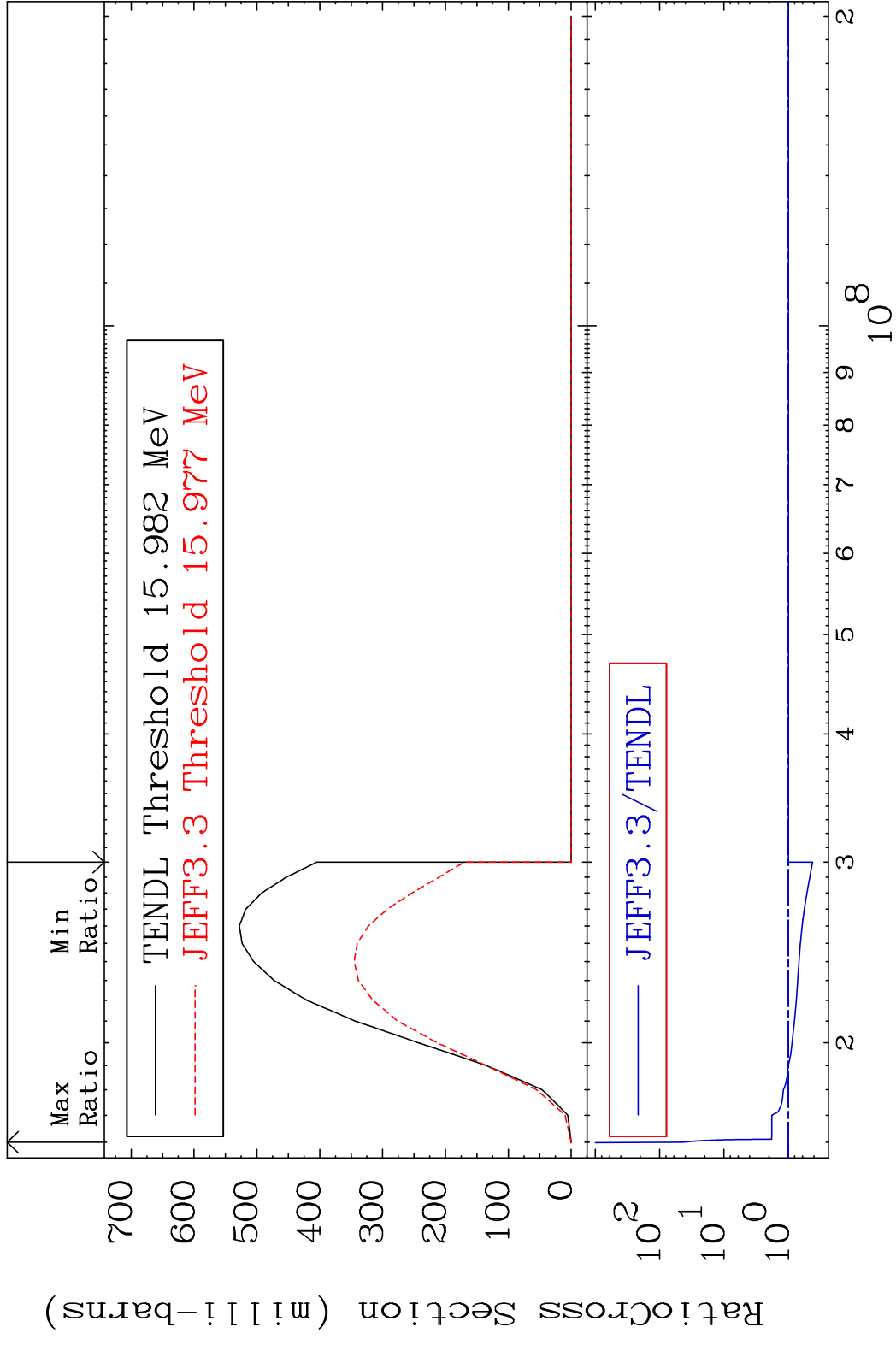


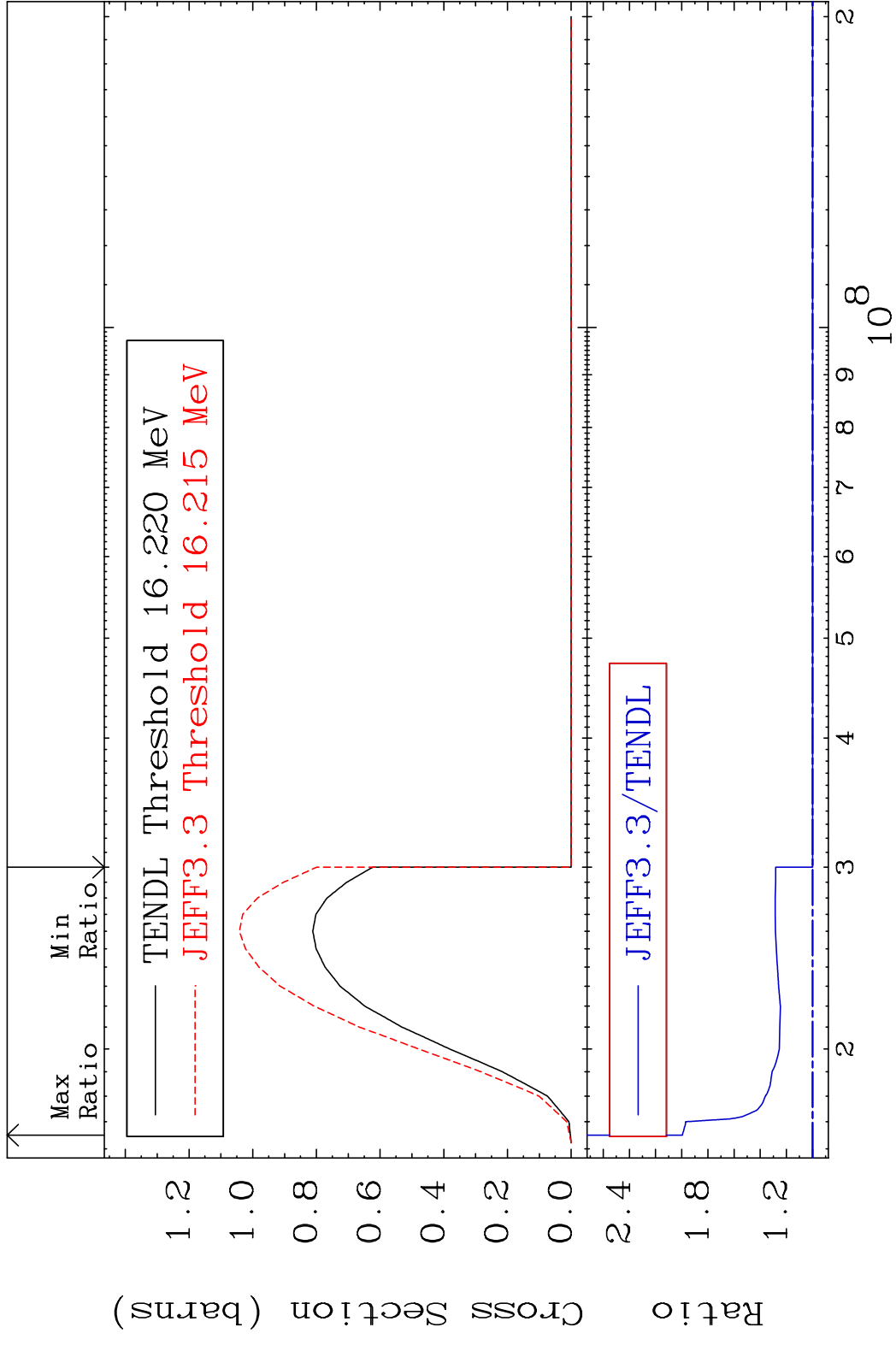
MAT 5446 Inelastic:54-Xe-131g 54-Xe-131
 Radionuclide Production Cross Section 180.01 dth 0.214 %



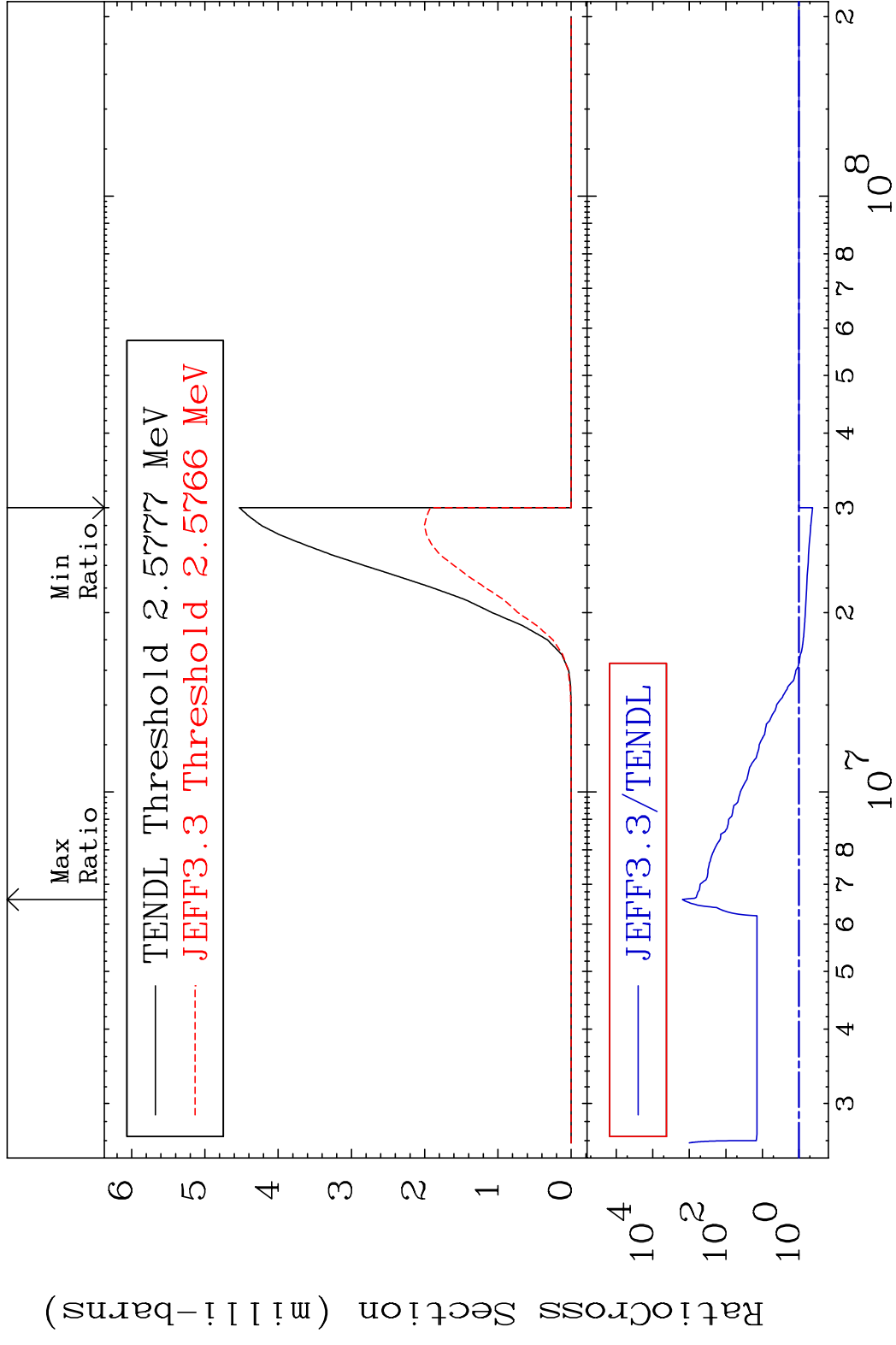


MAT 5446 (n,3n):54-Xe-129g 54-Xe-131
 Radionuclide Production Cross Section 5446 4339. %

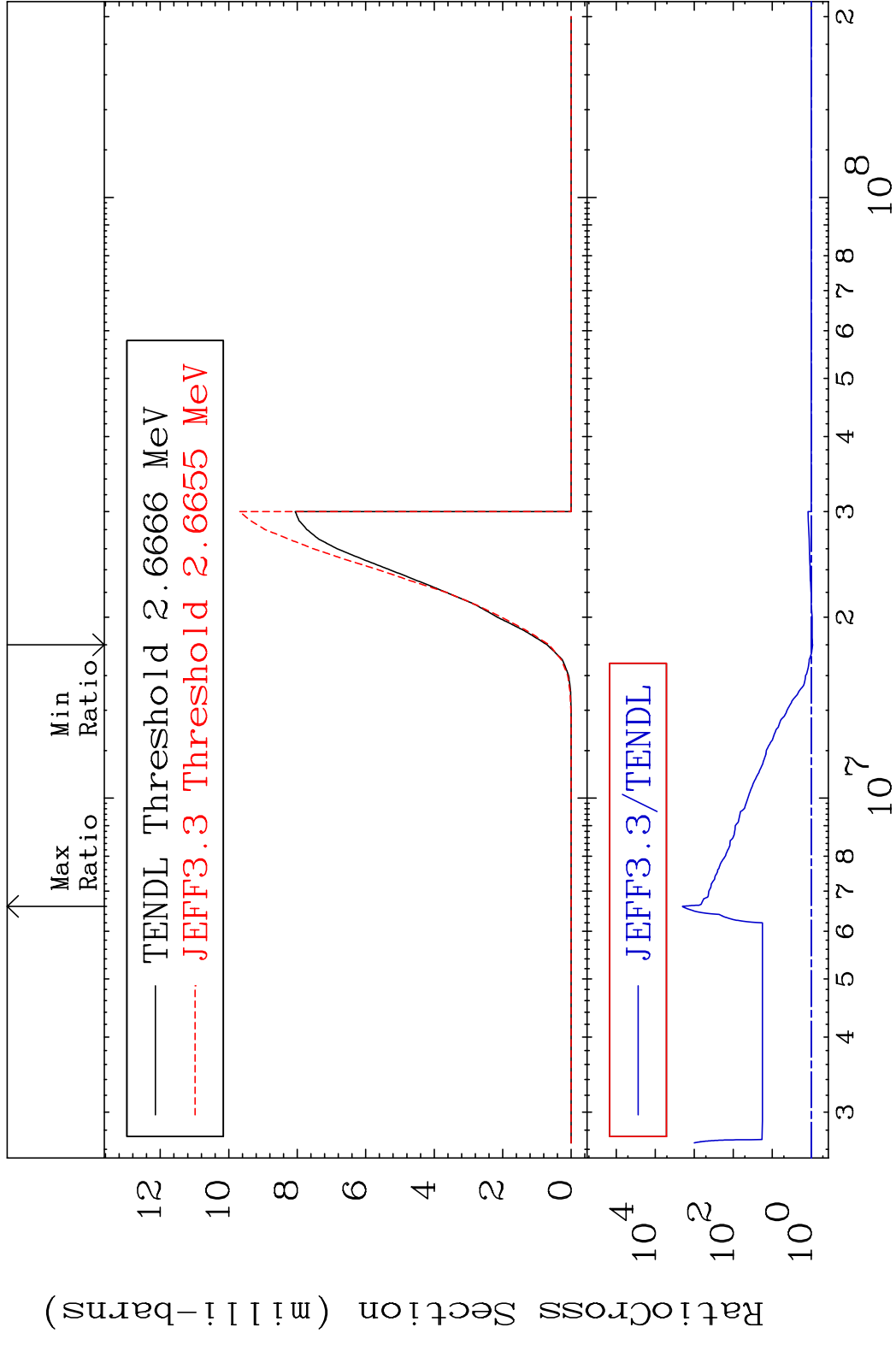




MAT 5446 (n, n') α :52-Te-127g 54-Xe-131
 Radionuclide Production Cross Section 5446 to 9999. %

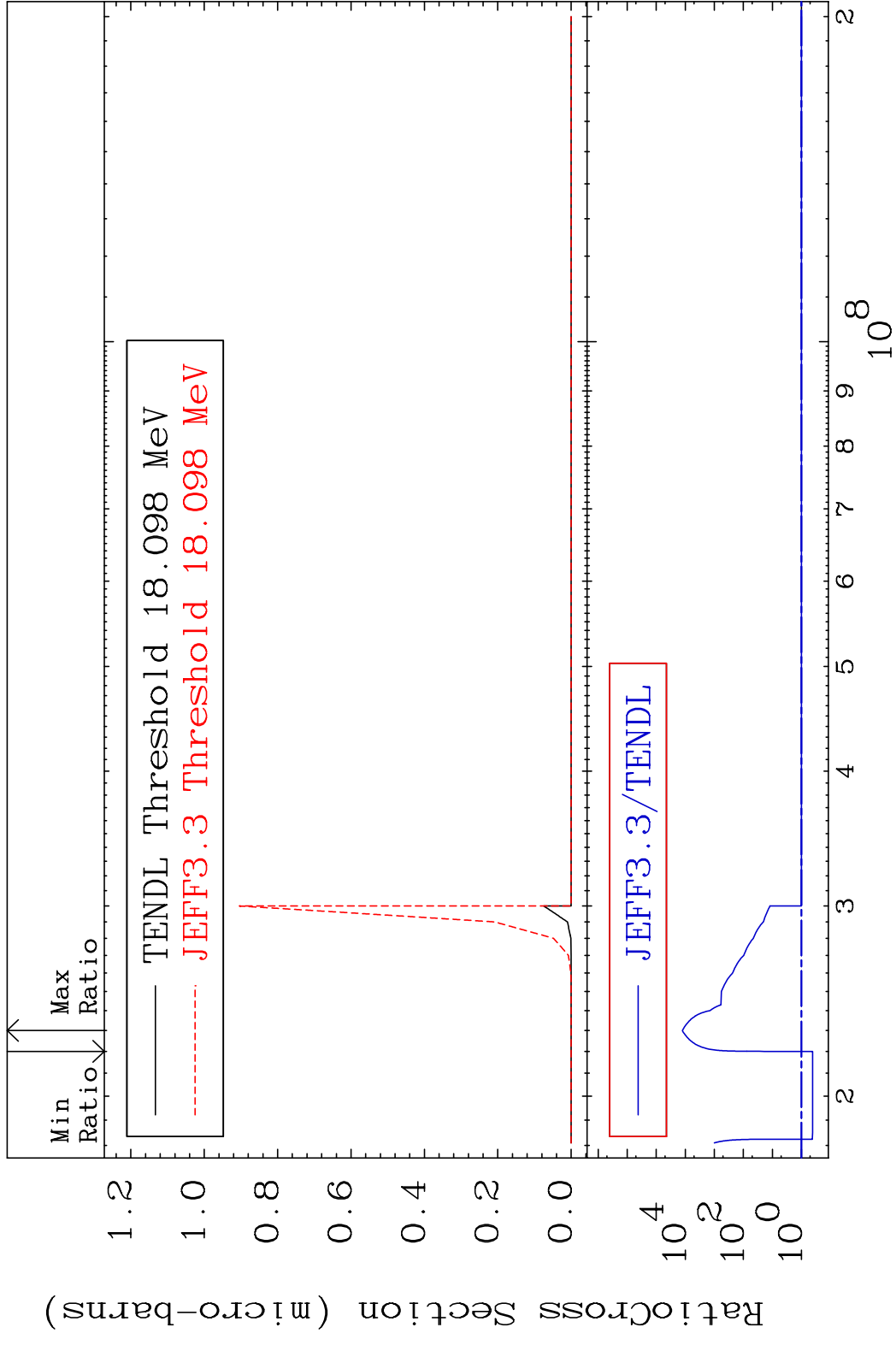


MAT 5446 (n, n') α :52-Te-127m2 54-Xe-131
 Radionuclide Production Cross Section 9999. %

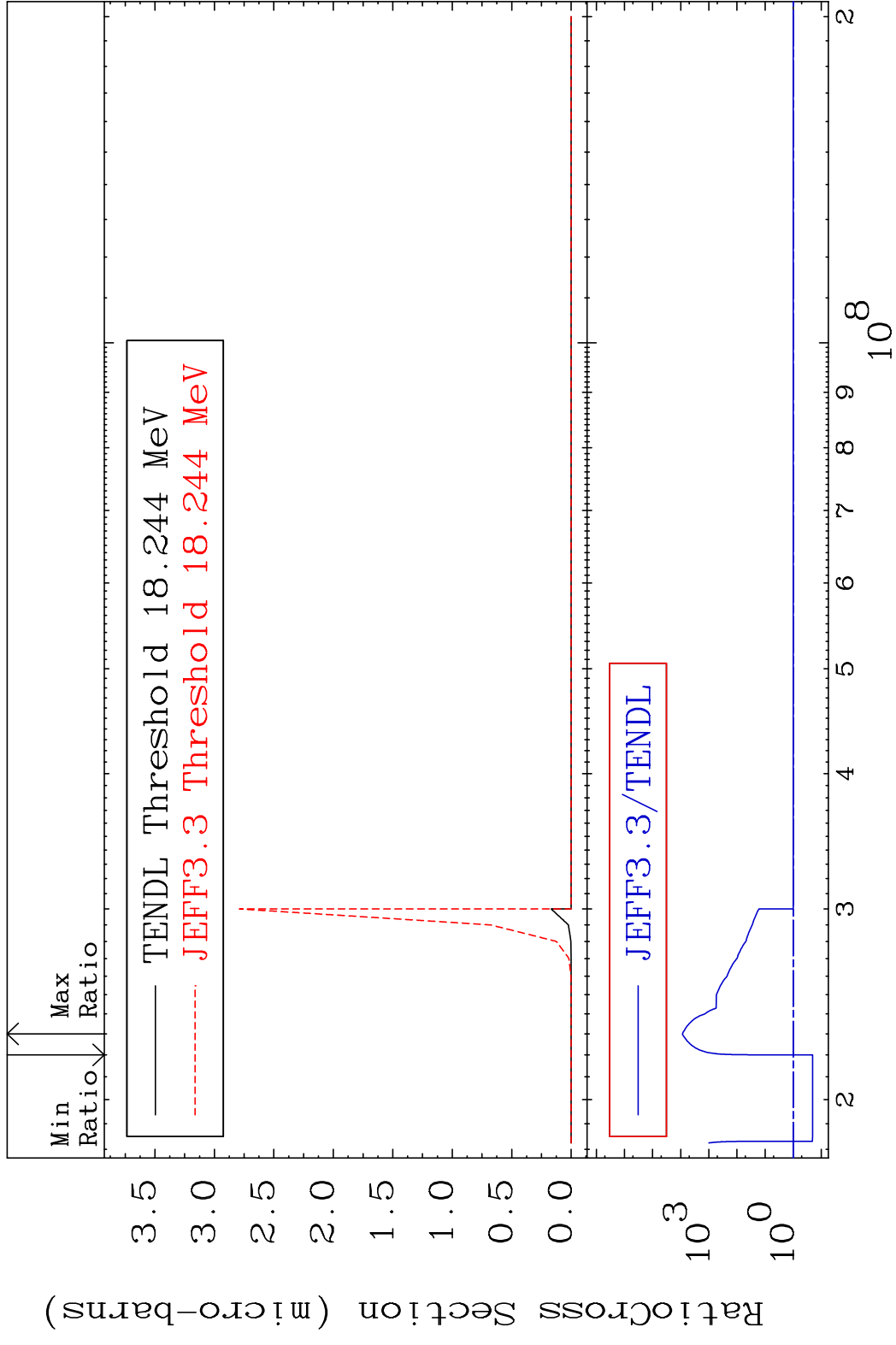


70 Incident Energy (eV) 54-Xe-131

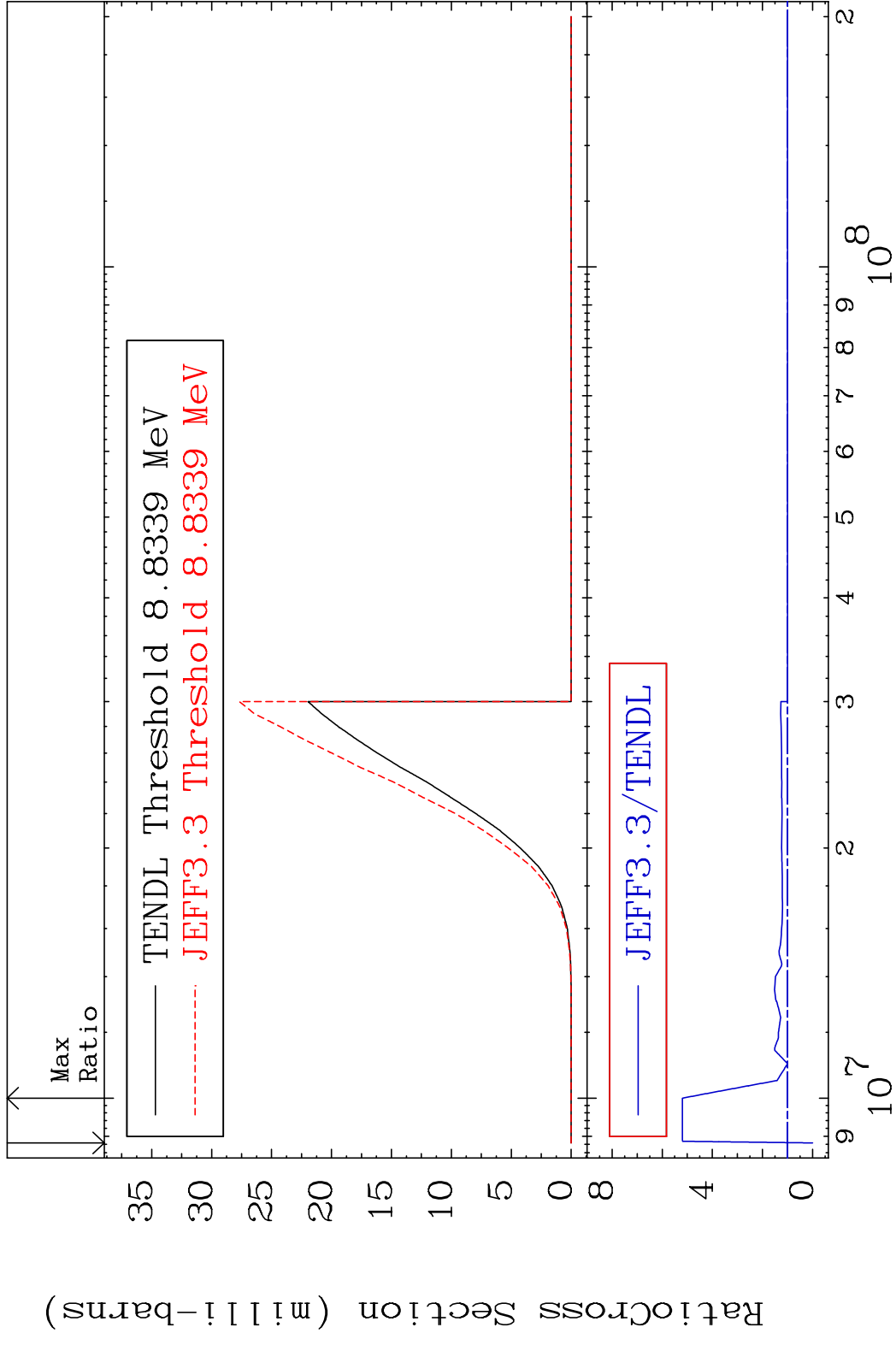
MAT 5446 (n,3n) α :52-Te-125g 54-Xe-131
 Radionuclide Production Cross Section 58668 d10 9999. %



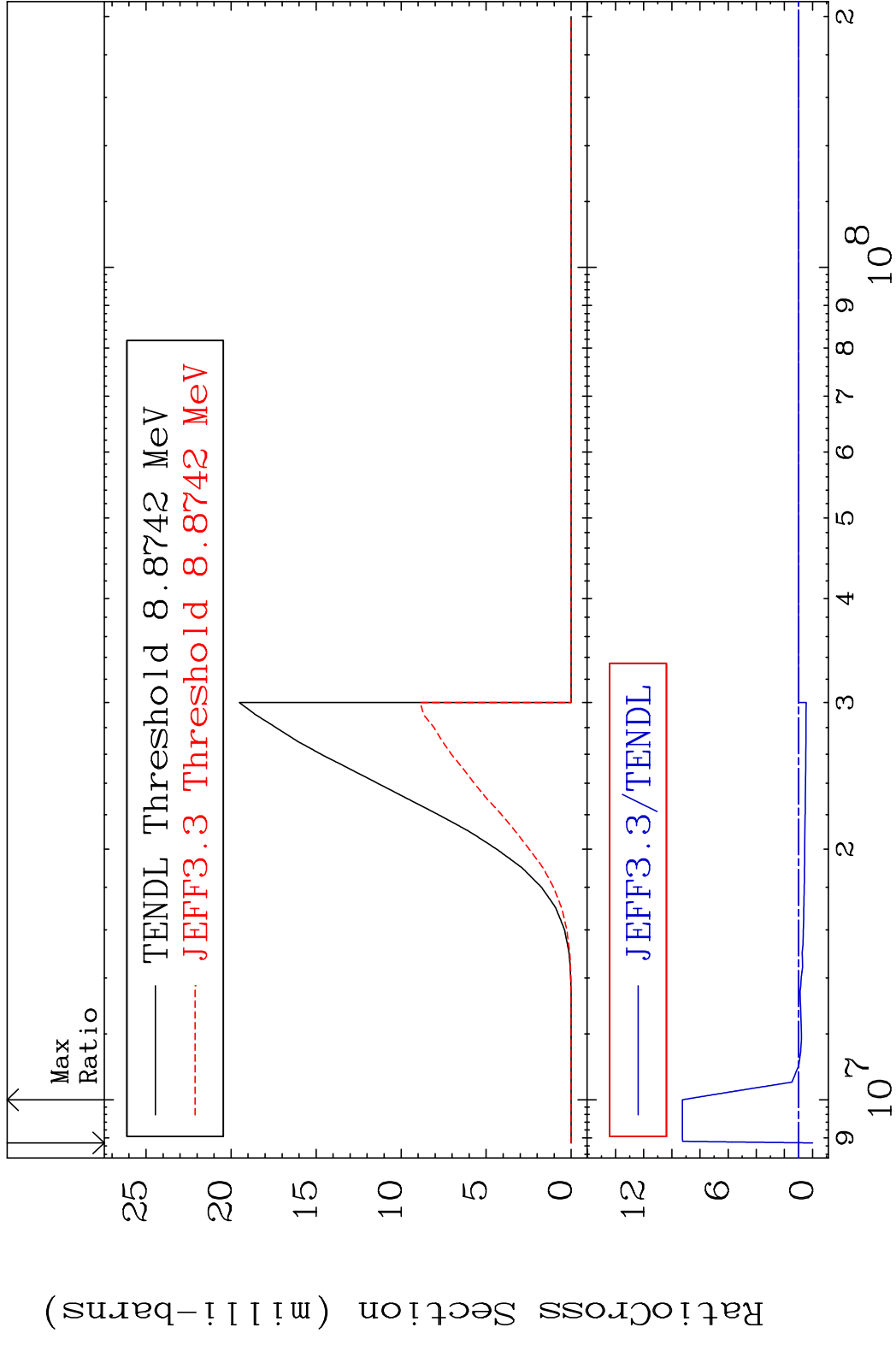
MAT 5446 (n,3n) α :52-Te-125m2 54-Xe-131
 Radionuclide Production Cross Section to 9999. %



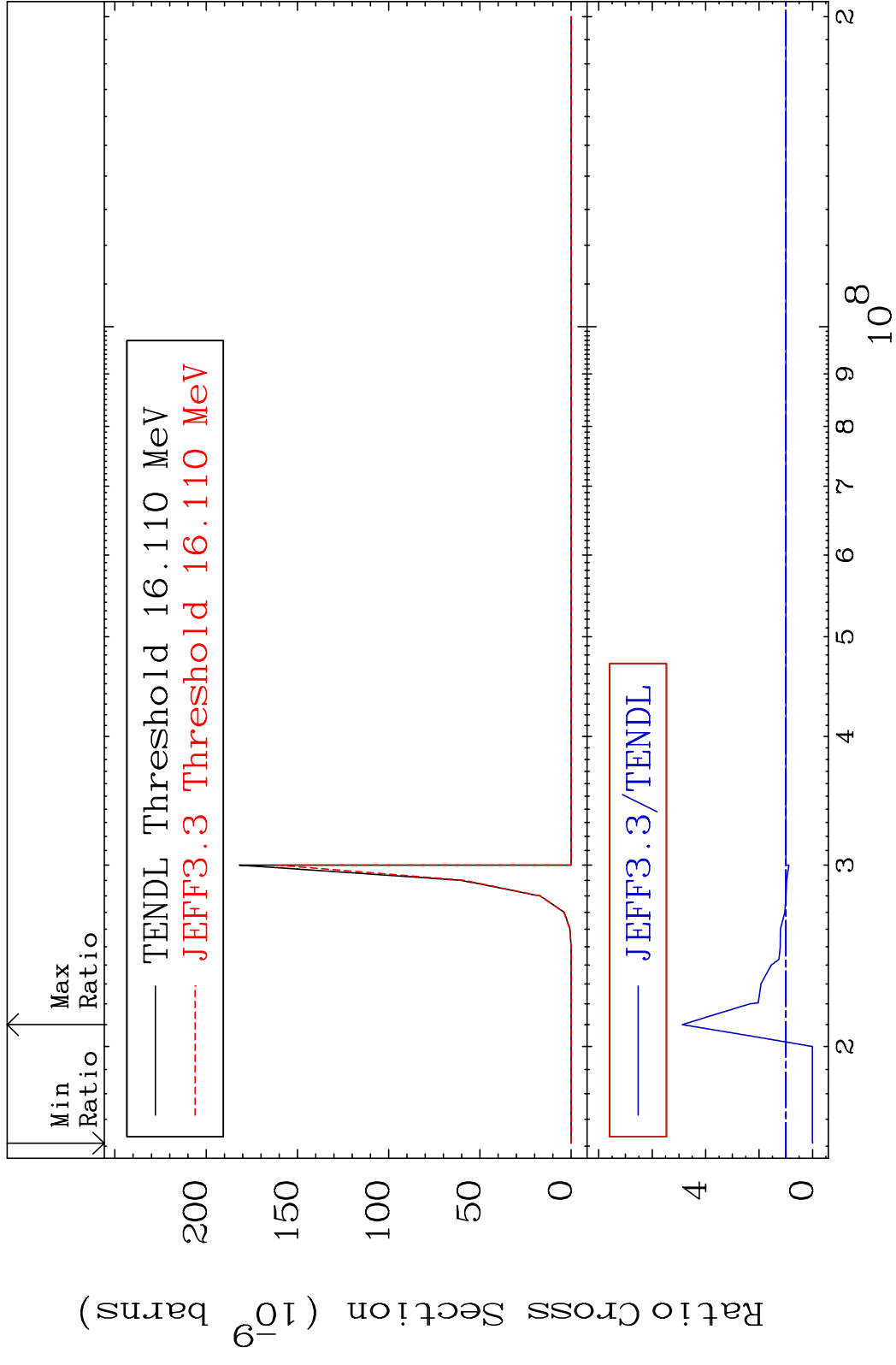
MAT 5446 (n, n') p:53-I -130g 54-Xe-131
 Radionuclide Production Cross Section 180.01 dth 419.6 %



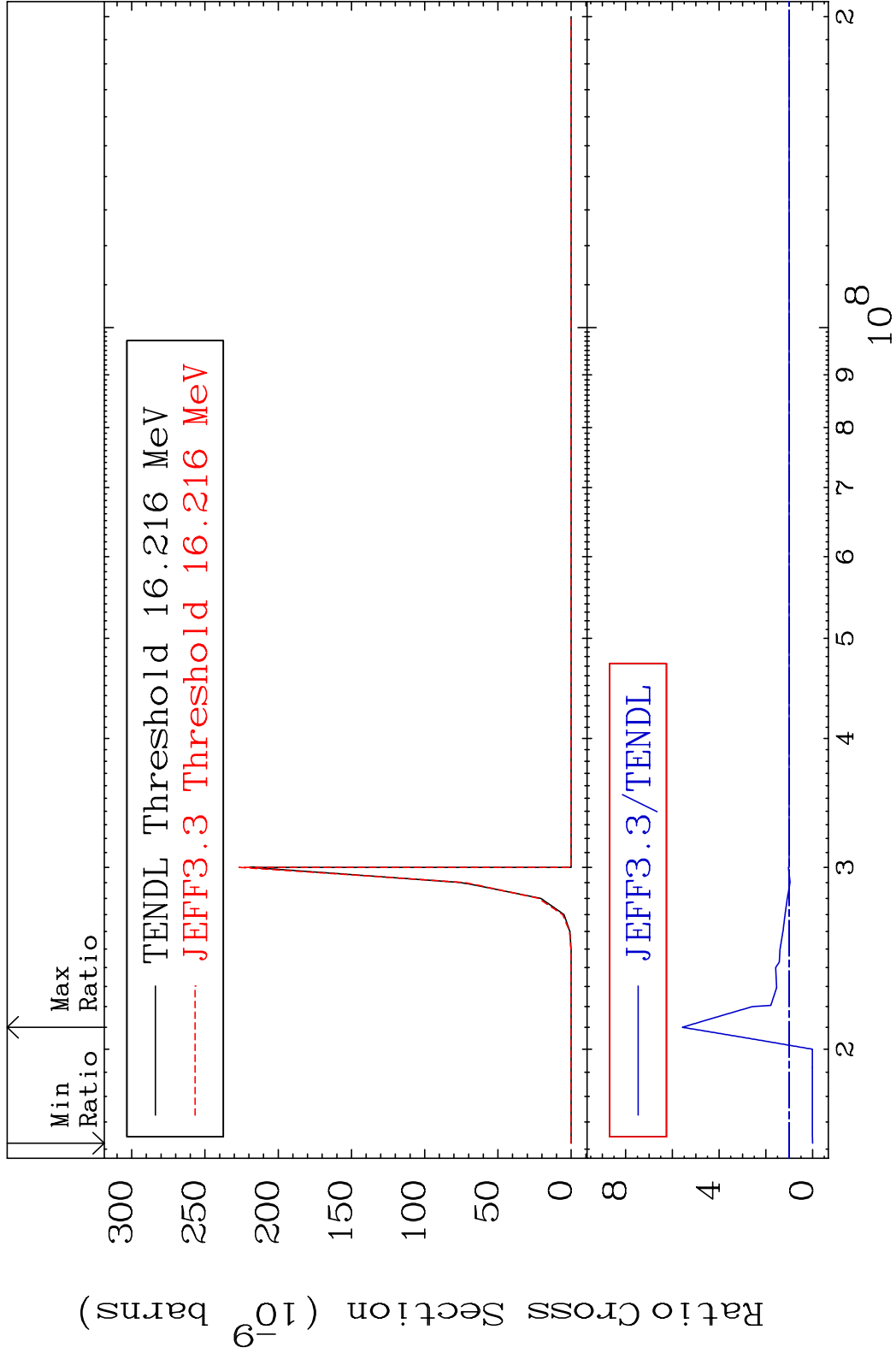
MAT 5446 (n, n') p:53-I -130m1 54-Xe-131
 Radionuclide Production Cross Section 825.4 %

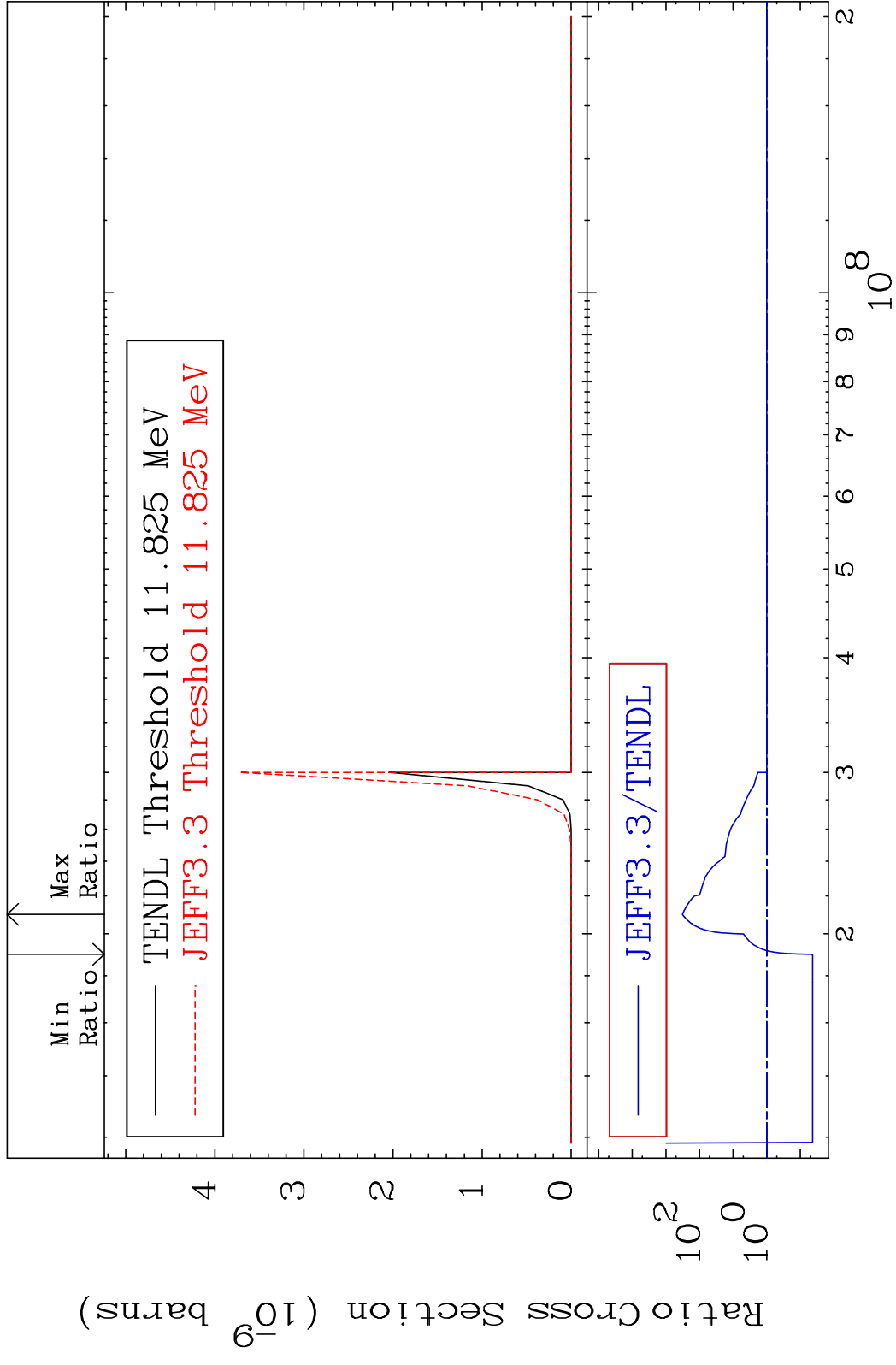


MAT 5446 (n,2n) p:52-Te-129g 54-Xe-131
 Radionuclide Production Cross Section 180.01 dth 387.1 %

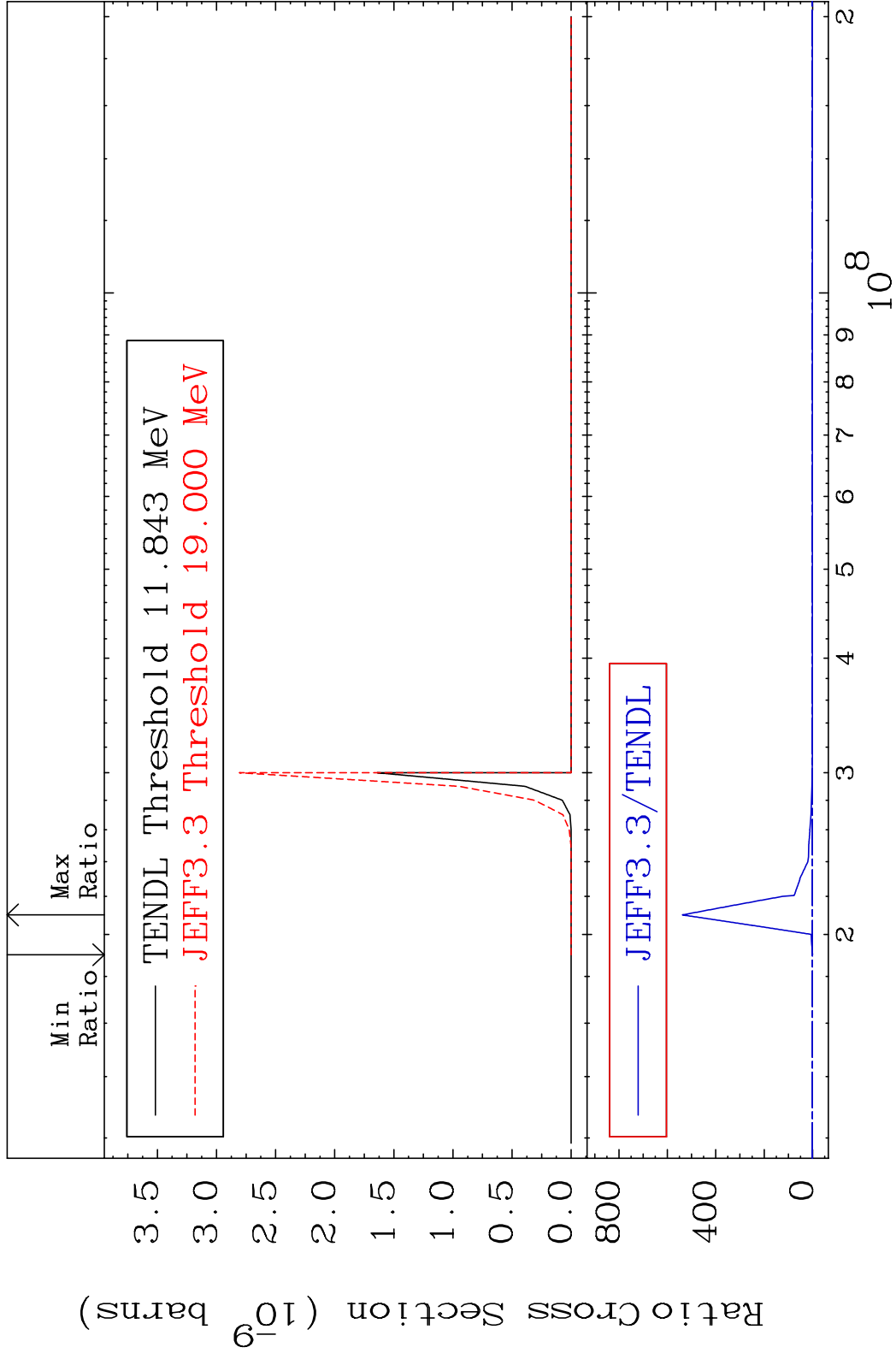


MAT 5446 (n,2n) p:52-Te-129m1 54-Xe-131
 Radionuclide Production Cross Section 180.01 dth 457.5 %

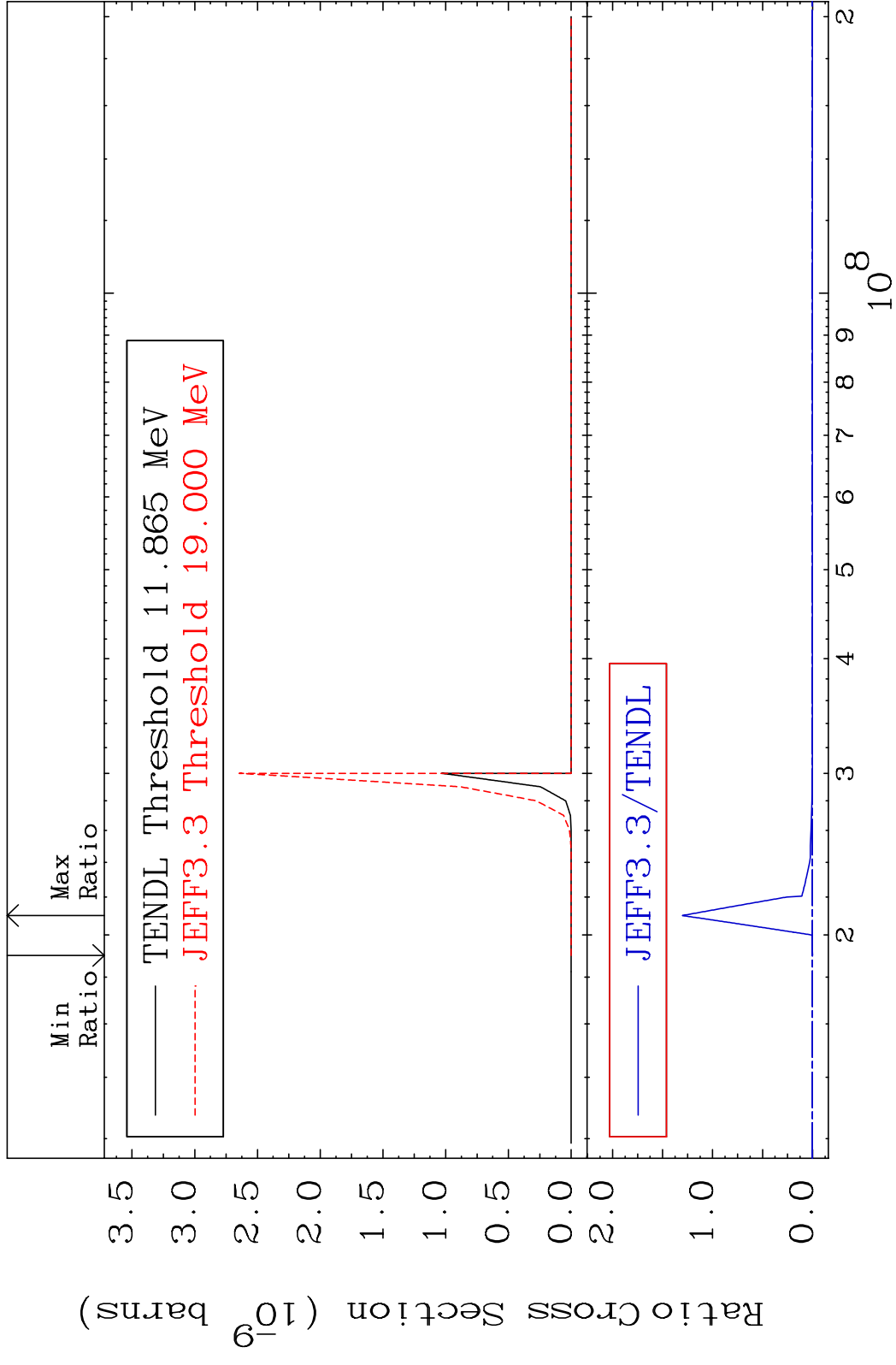




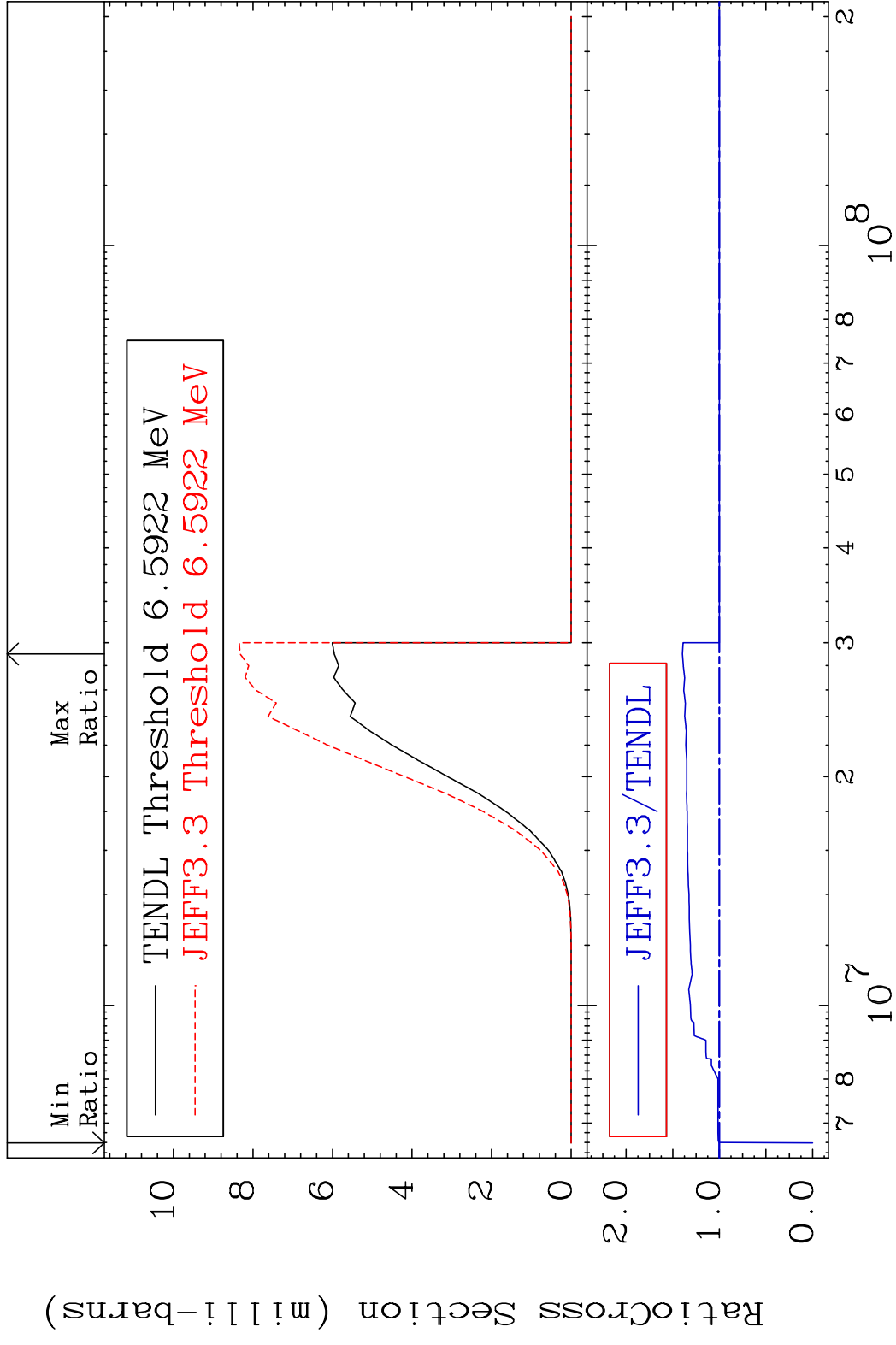
MAT 5446 (n, n') p α :51-Sb-126m1 54-Xe-131
 Radionuclide Production Cross Section Ratio 9999. %



MAT 5446 (n, n') p α :51-Sb-126m2 54-Xe-131
 Radionuclide Production Cross Section 100.00 dth 9999. %

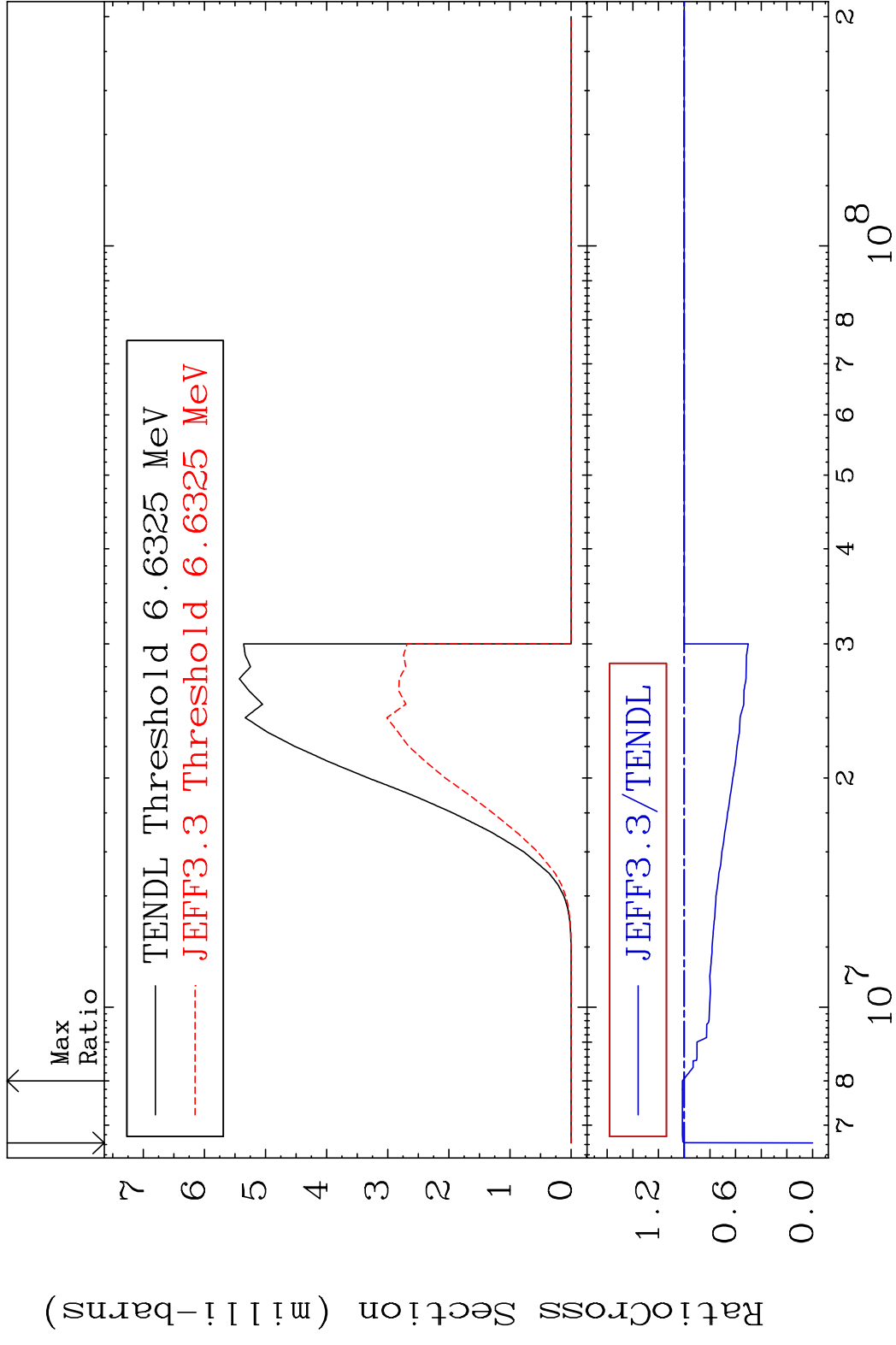


MAT 5446 (n, d):53-I -130g 54-Xe-131
 Radionuclide Production Cross Section 180.01 dth 39.71 %

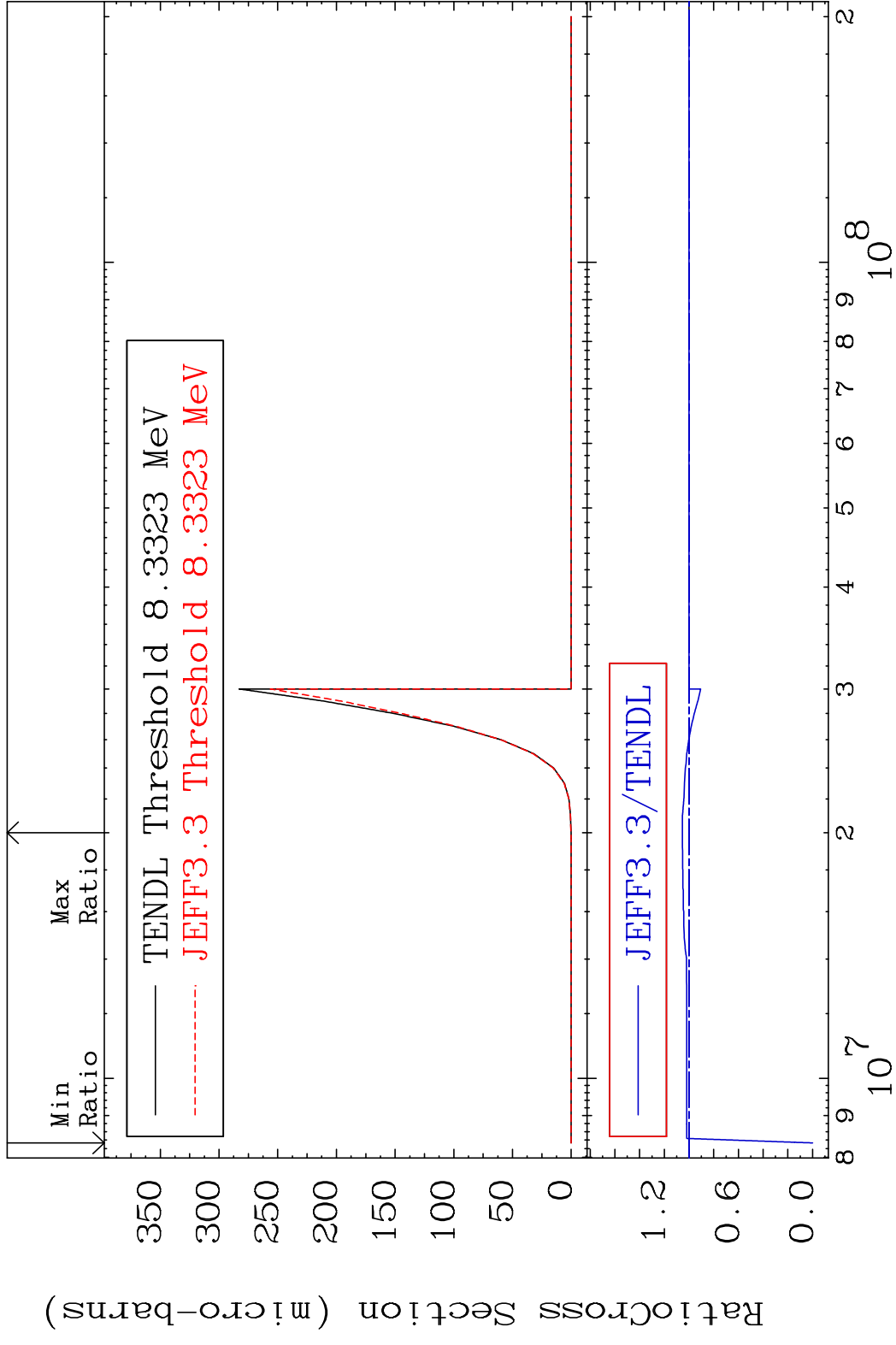


80 Incident Energy (eV) 54-Xe-131

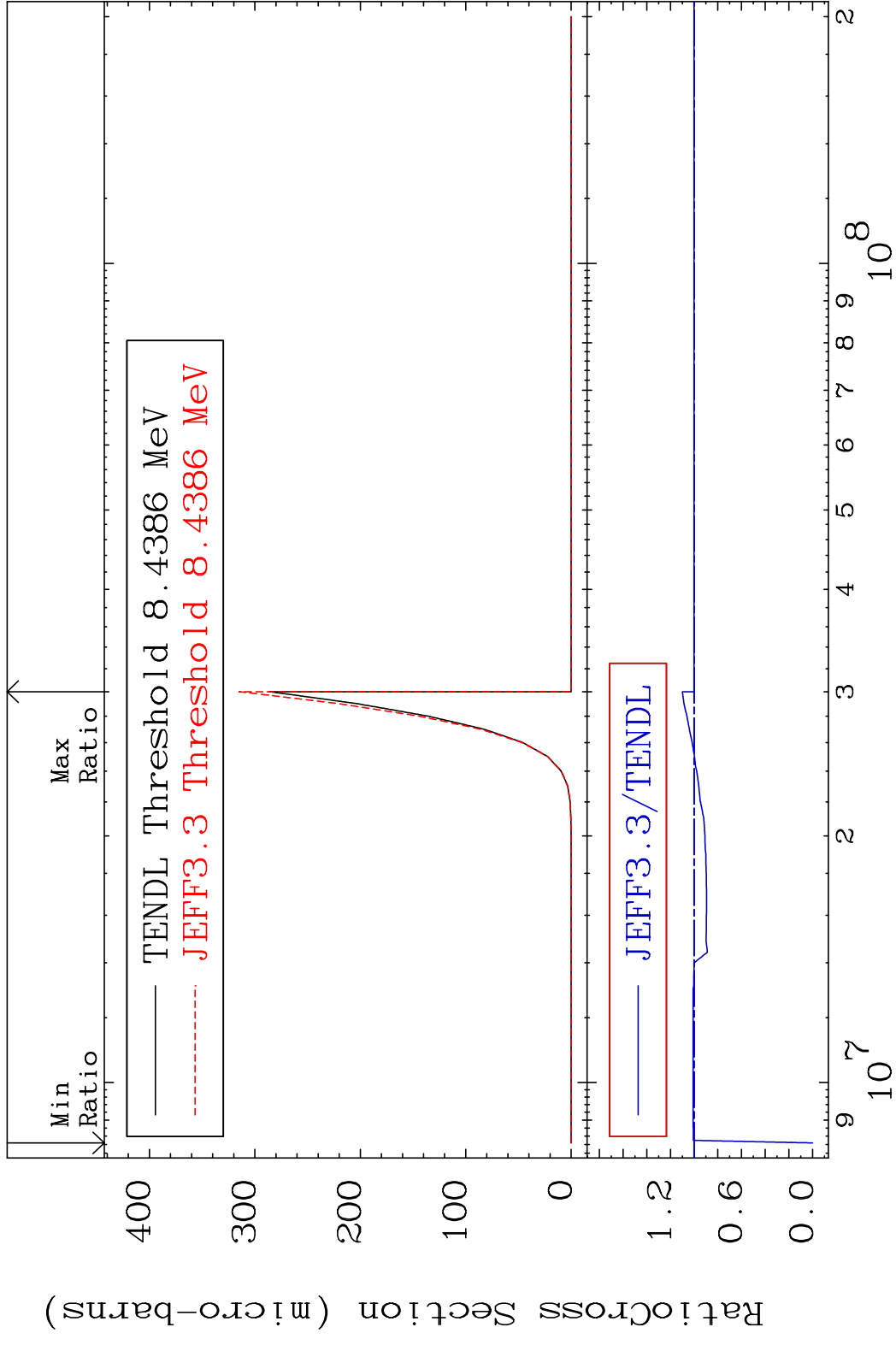
MAT 5446 (n, d):53-I -130m1 54-Xe-131
 Radionuclide Production Cross Section 1.452 %



MAT 5446 (n, He-3): 52-Te-129g 54-Xe-131
 Radionuclide Production Cross Section Ratio 5.394 %



MAT 5446 (n, He-3) : 52-Te-129m1 54-Xe-131
 Radionuclide Production Cross Section Ratio 9.937 %



MAT 5446 (n,p) d:52-Te-129g 54-Xe-131
 Radionuclide Production Cross Section 180.01 dth 361.6 %

