

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

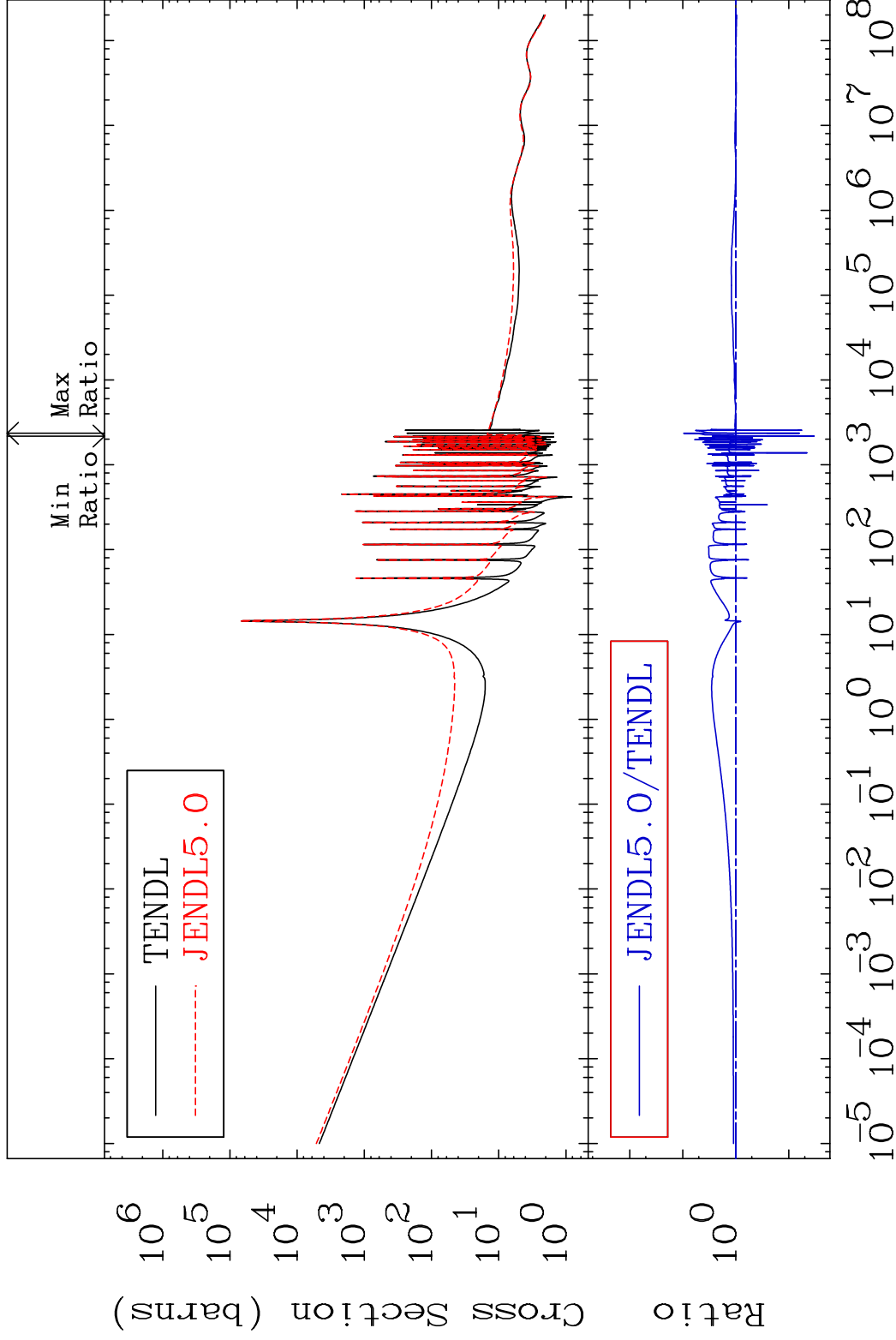
Press Mouse Button to Start

MAT 5446

Total

54-Xe-131

Cross Section -96.66 To 861.1 %



1

Incident Energy (eV)

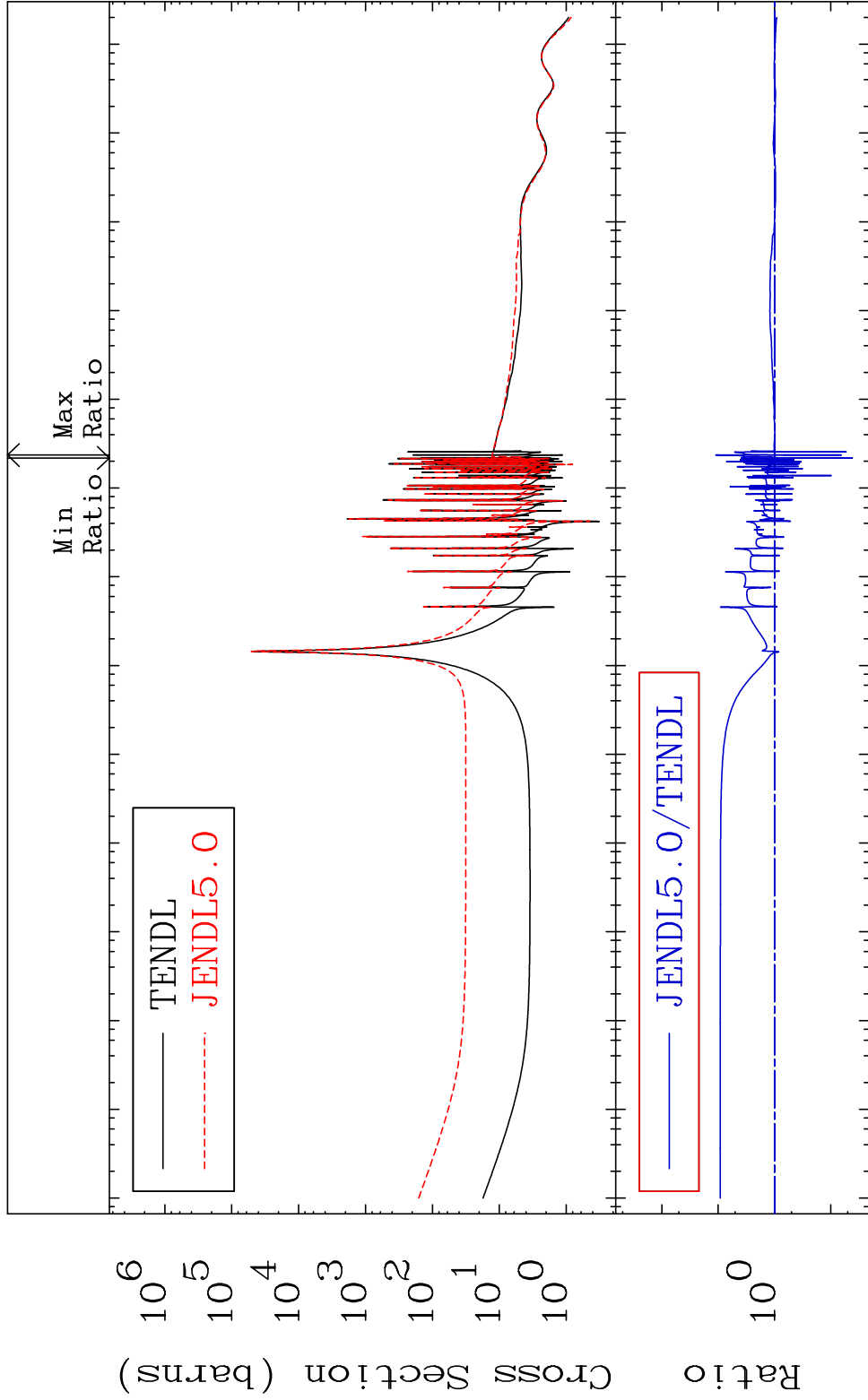
54-Xe-131

MAT 5446

Elastic

54-Xe-131

Cross Section -95.83 To 1010. %



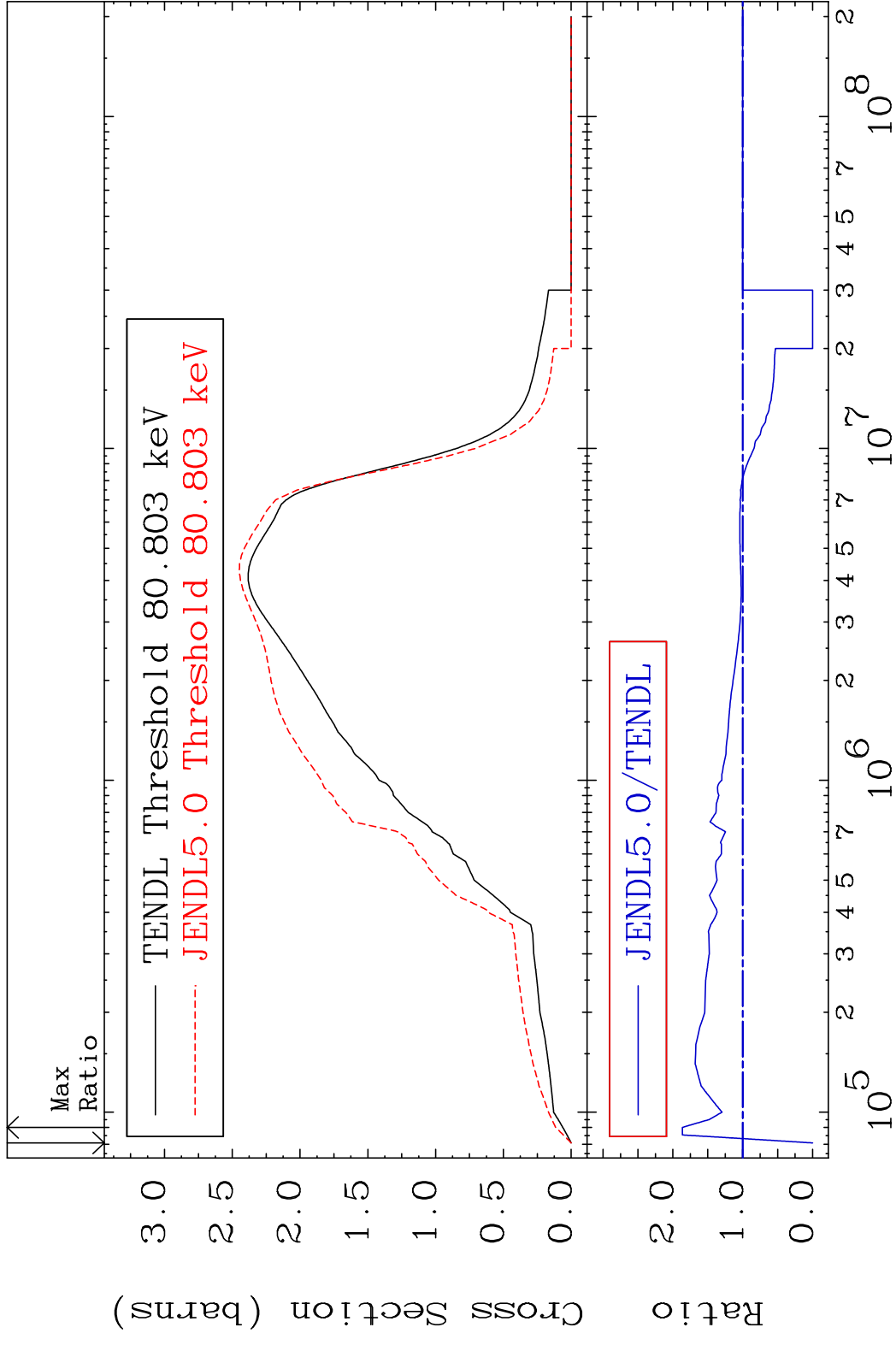
10⁶
10⁵
10⁴
10³
10²
10¹
10⁰
10⁰
10⁰
10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

2

Incident Energy (eV)

54-Xe-131

MAT 5446 Inelastic 54-Xe-131
 Cross Section -100.0 To 86.41 %

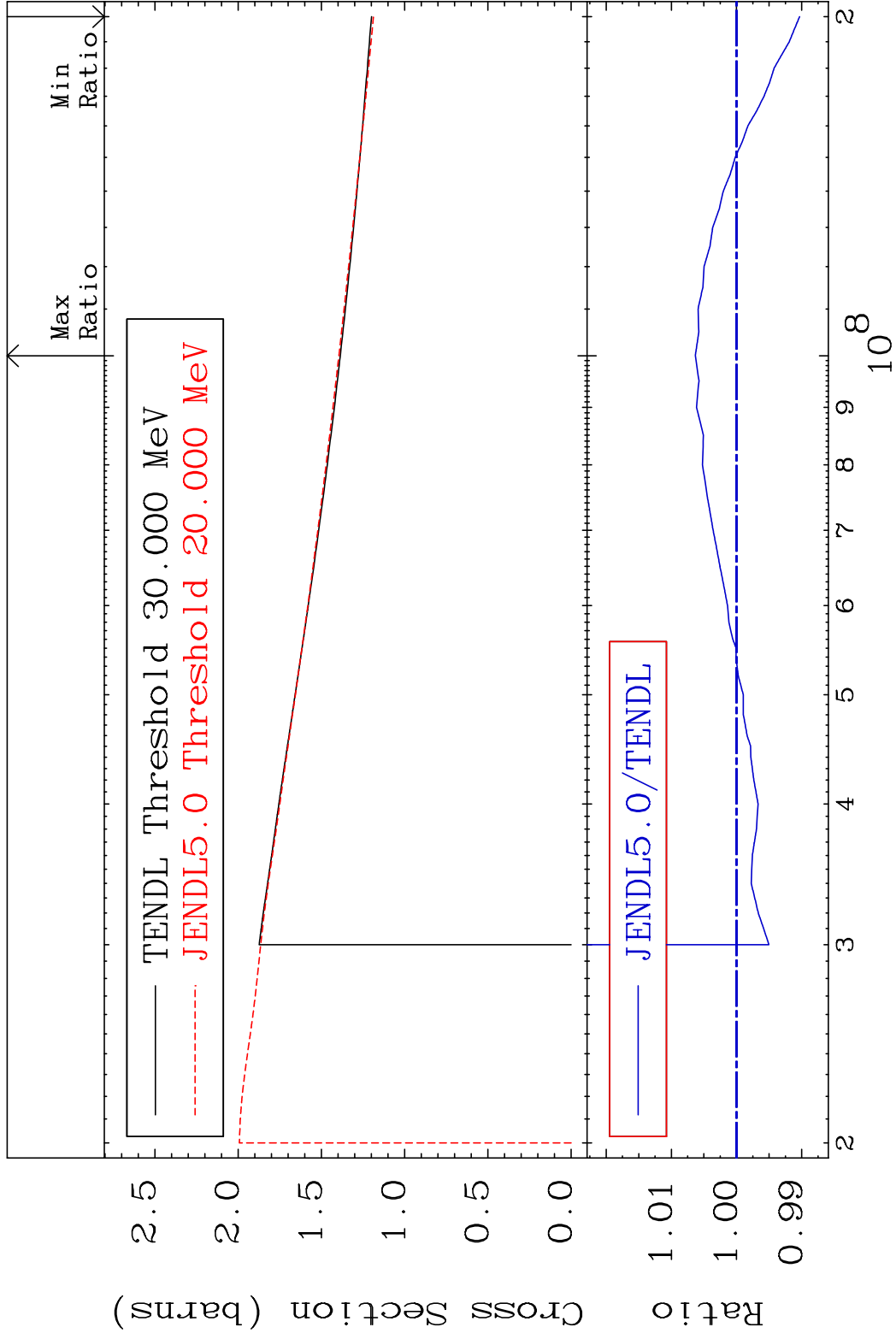


MAT 5446

(n, remainder)

54-Xe-131

Cross Section -0.967 To 0.632 %



4

Incident Energy (eV)

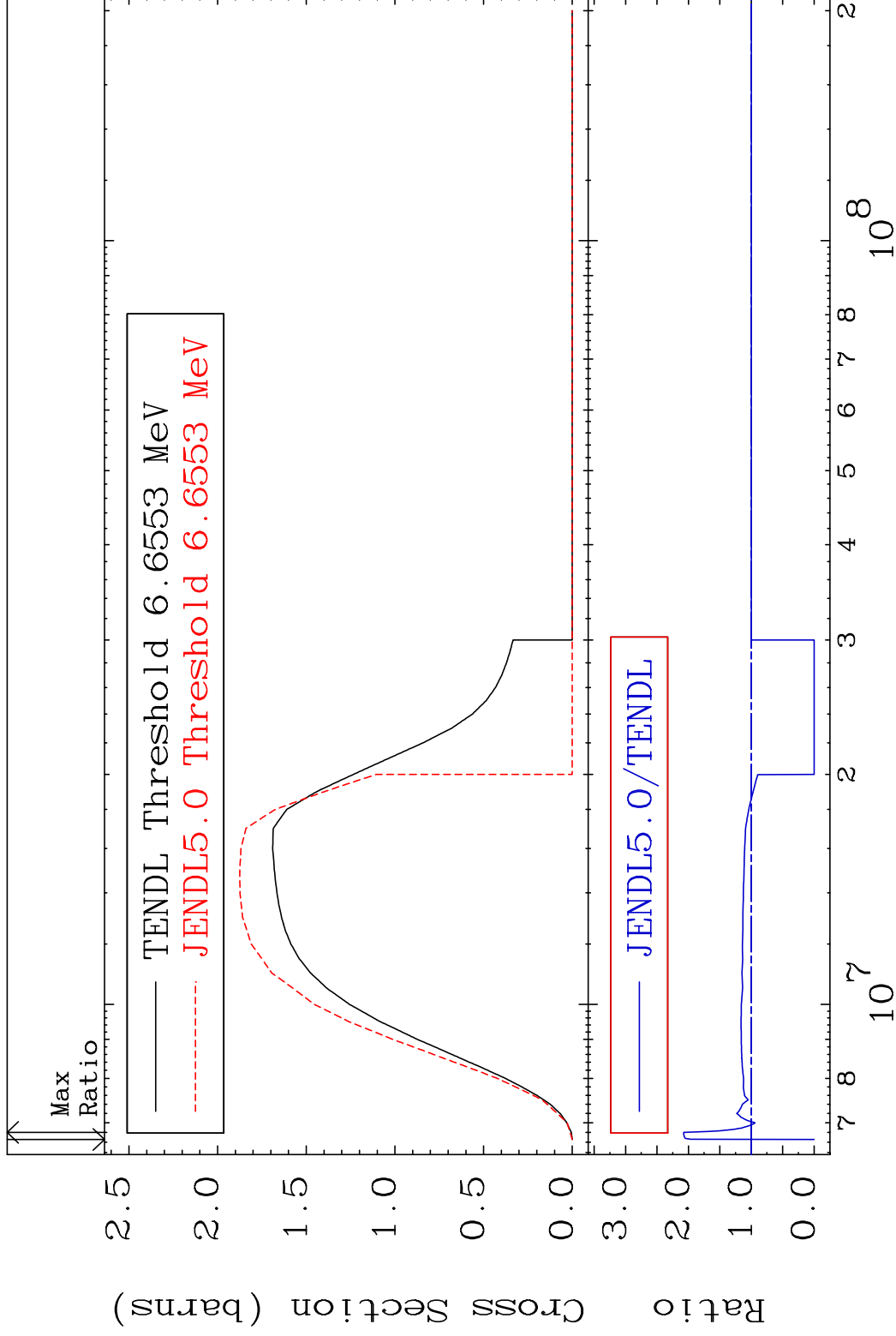
54-Xe-131

MAT 5446

(n,2n)

54-Xe-131

Cross Section -100.0 To 107.6 %

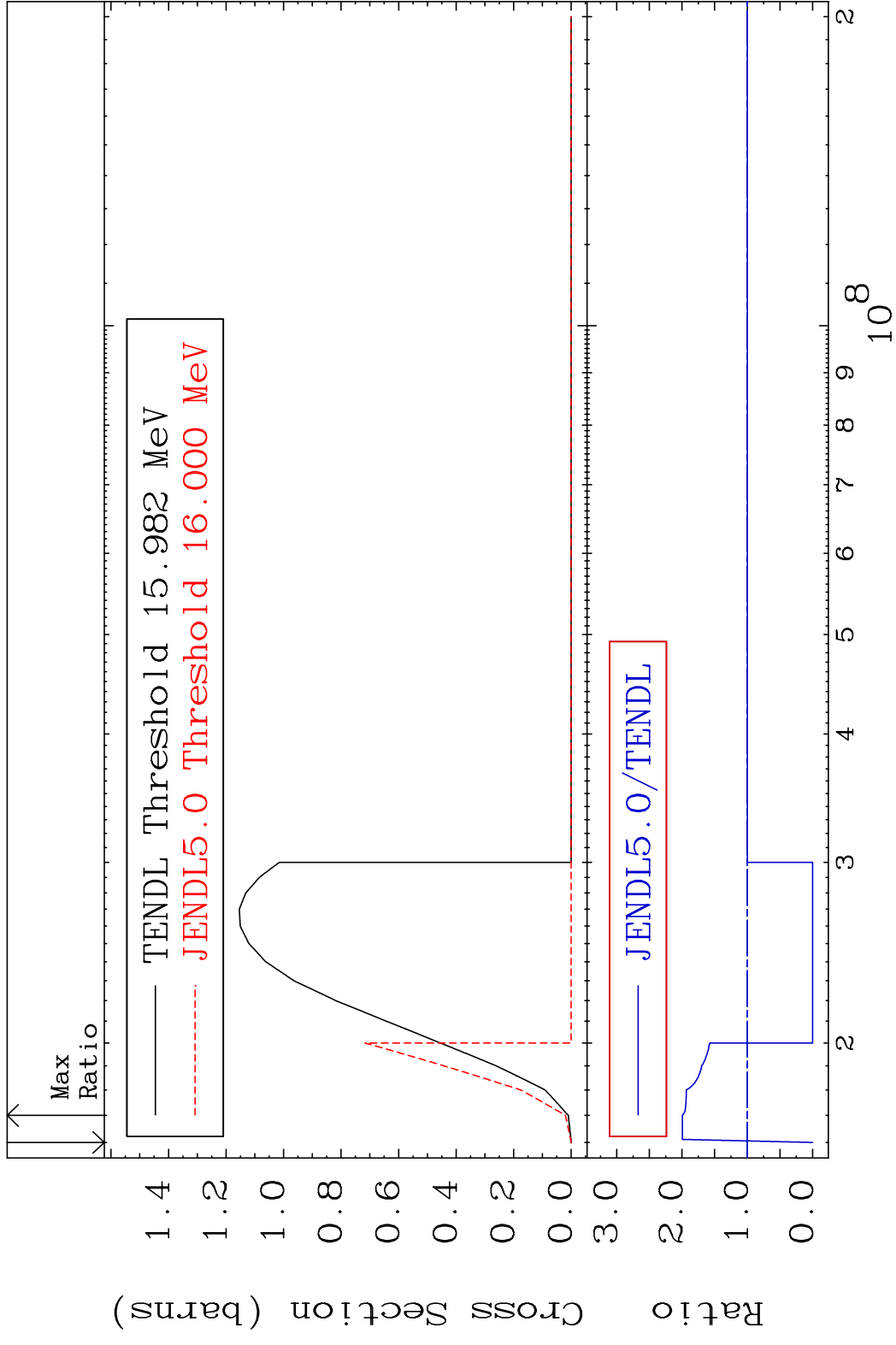


5

Incident Energy (eV)

54-Xe-131

MAT 5446 (n,3n) 54-Xe-131
 Cross Section -100.0 To 99.47 %

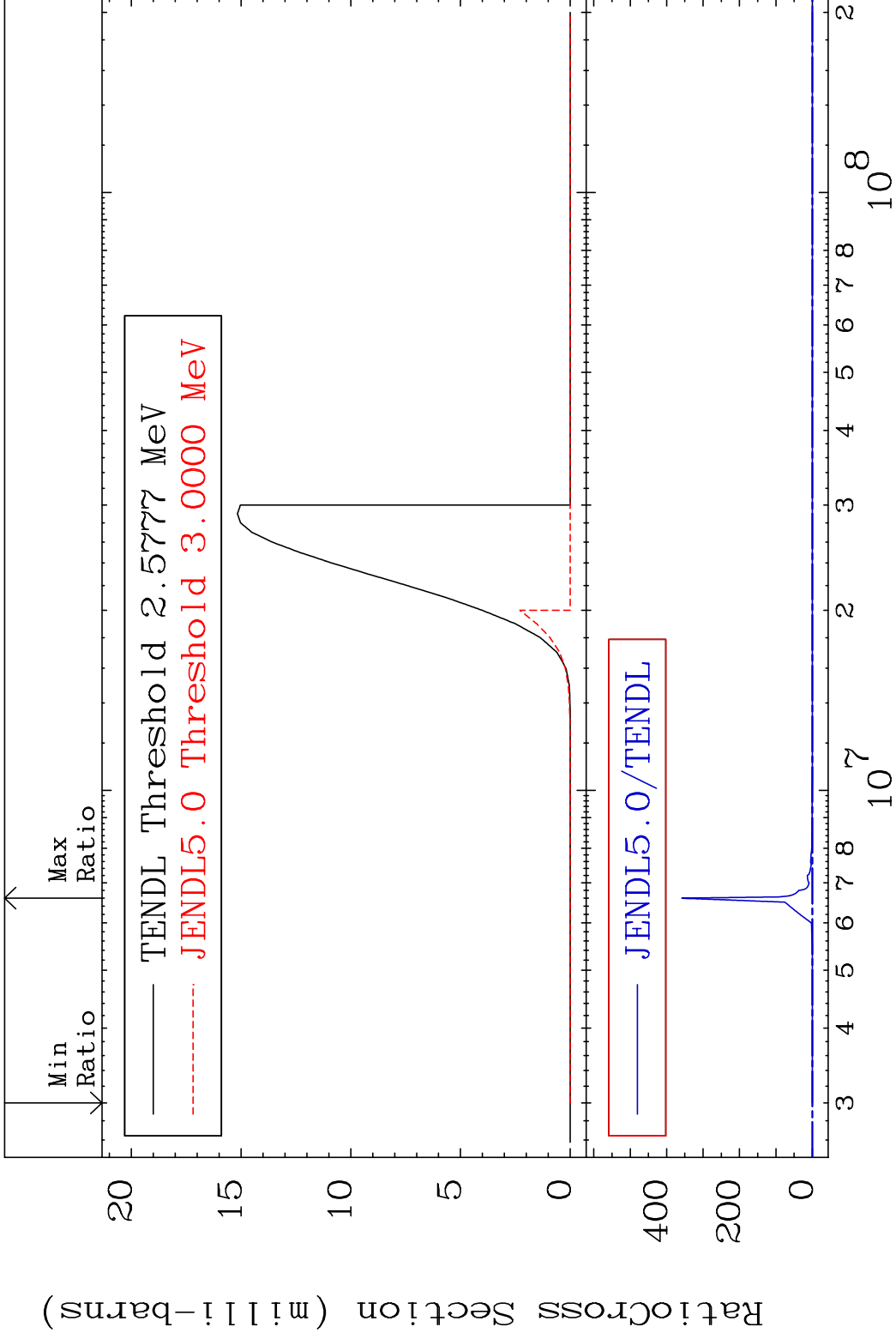


MAT 5446

(n, n') α

54-Xe-131

Cross Section -100.0 To 9999. %



7

Incident Energy (eV)

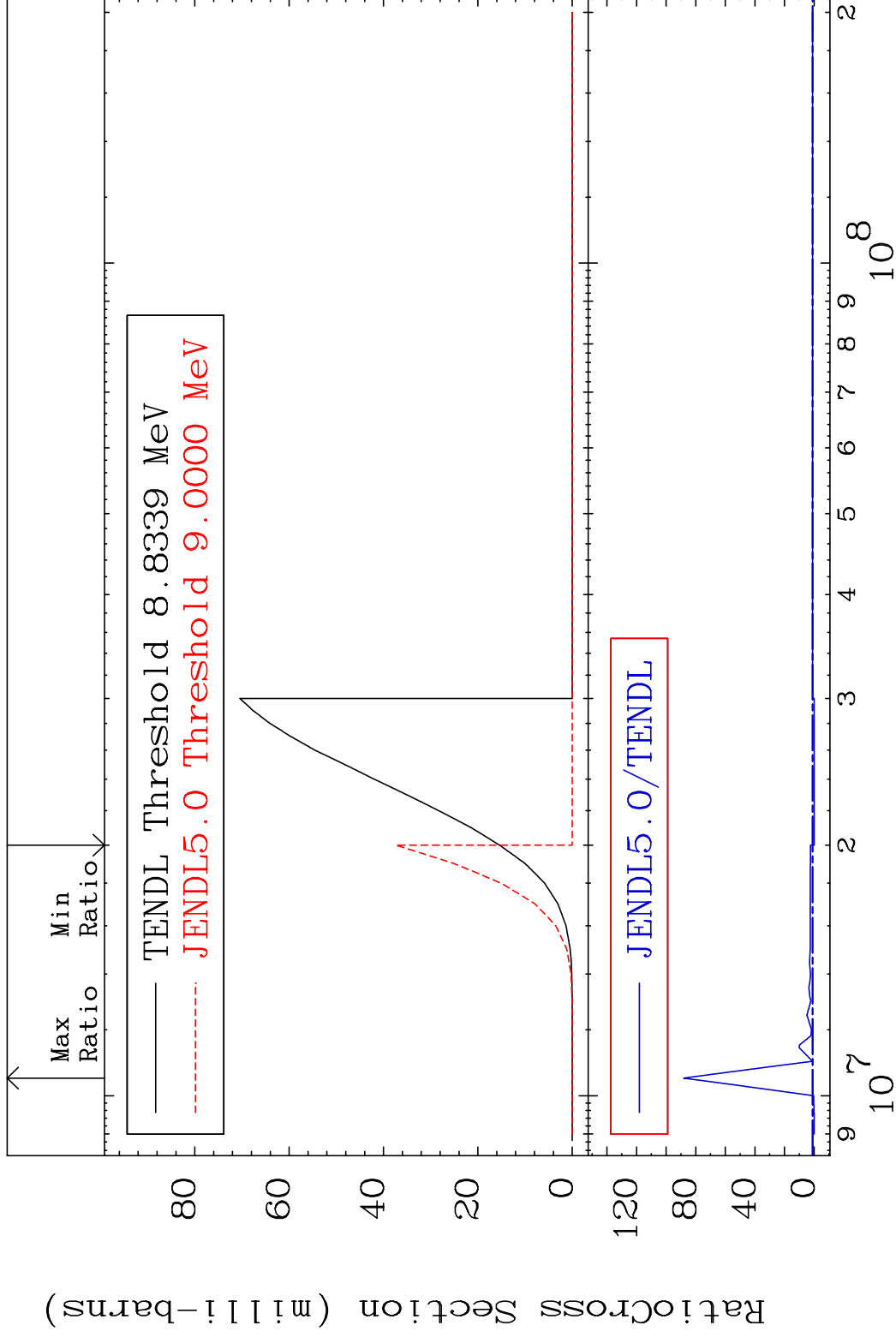
54-Xe-131

MAT 5446

(n, n') p

54-Xe-131

Cross Section -100.0 To 8715. %



8

Incident Energy (eV)

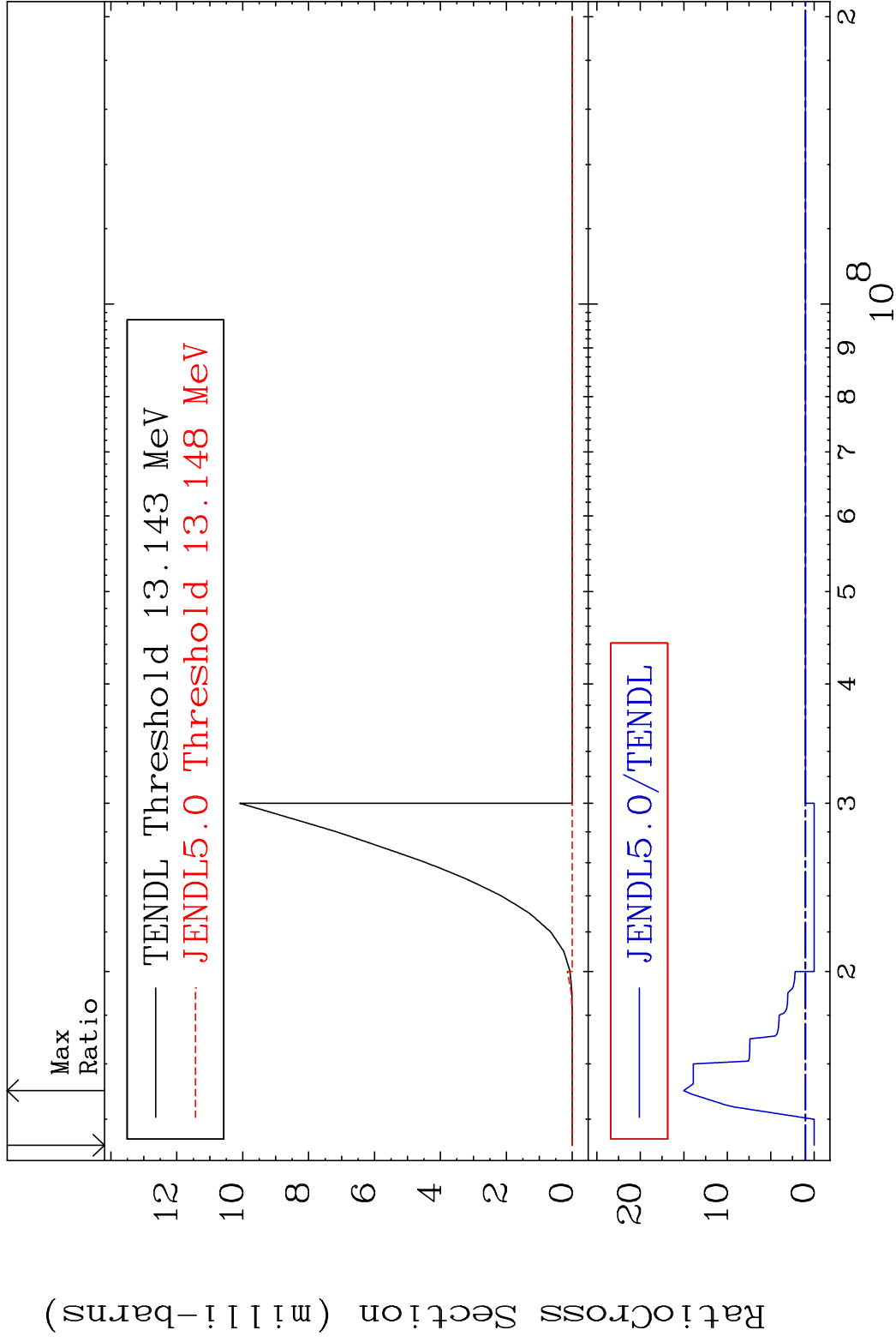
54-Xe-131

MAT 5446

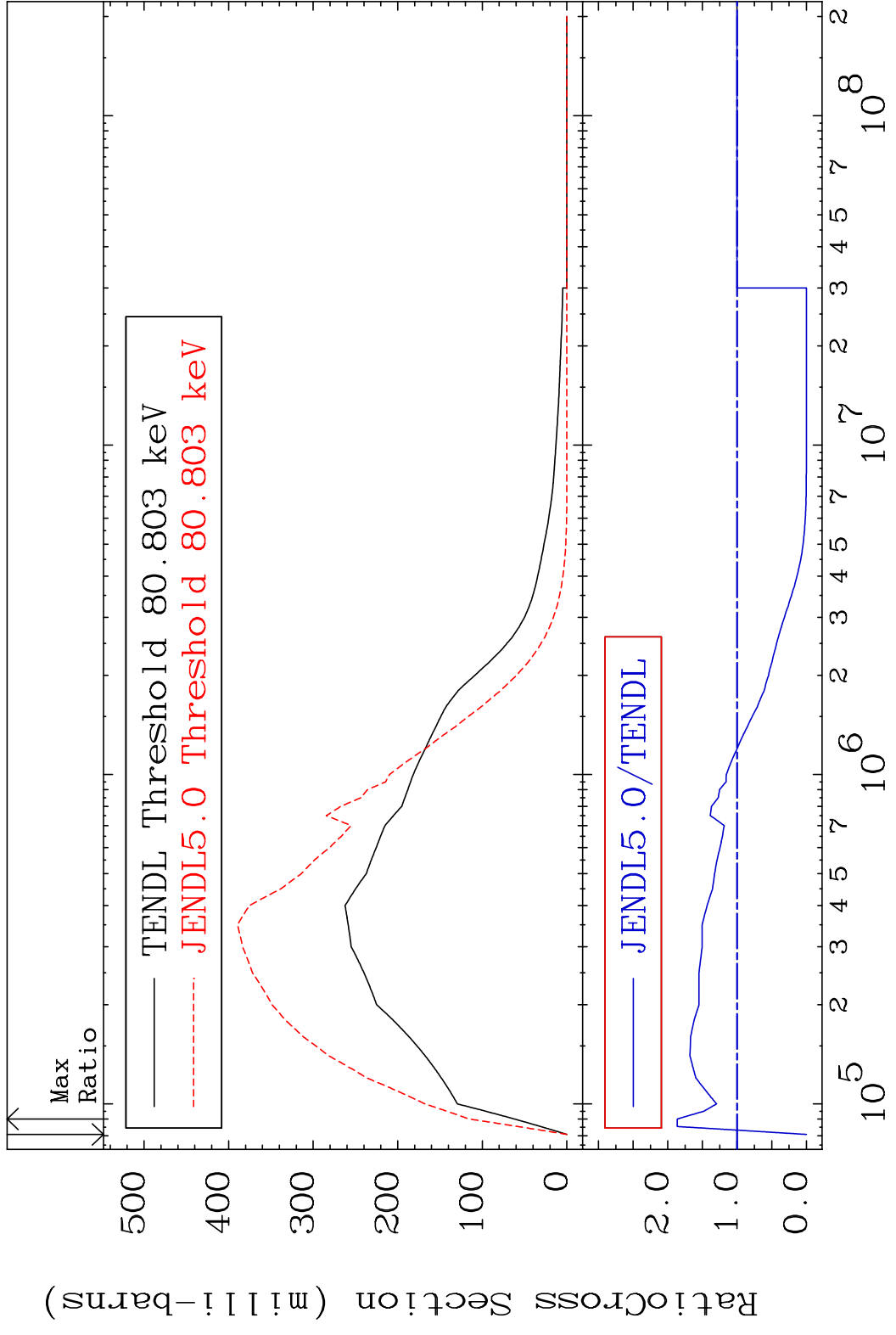
(n, n') d

54-Xe-131

Cross Section -100.0 To 1402. %

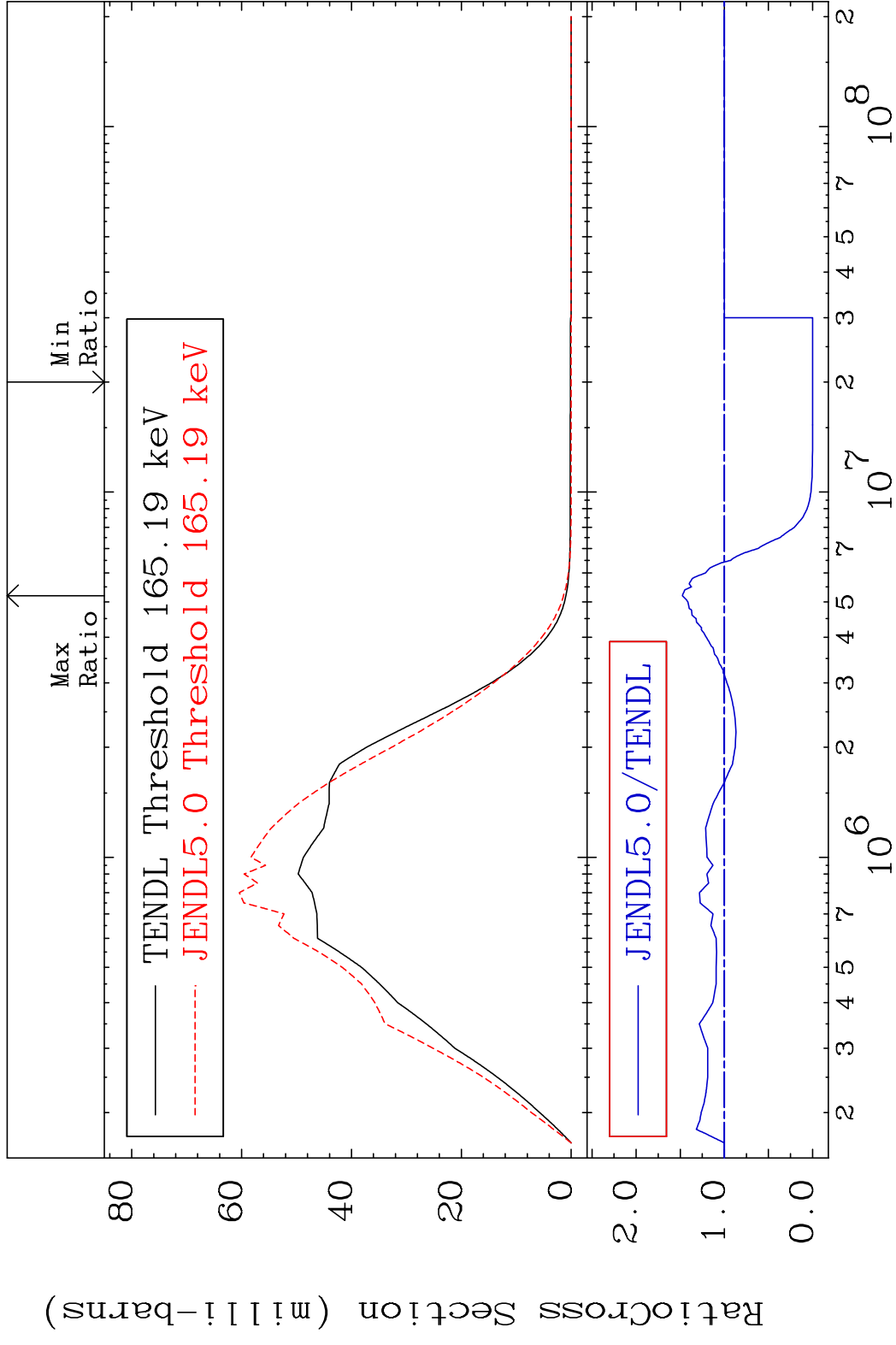


MAT 5446 MT= 51 (n, n') Level 54-Xe-131
 Cross Section -100.0 To 86.41 %

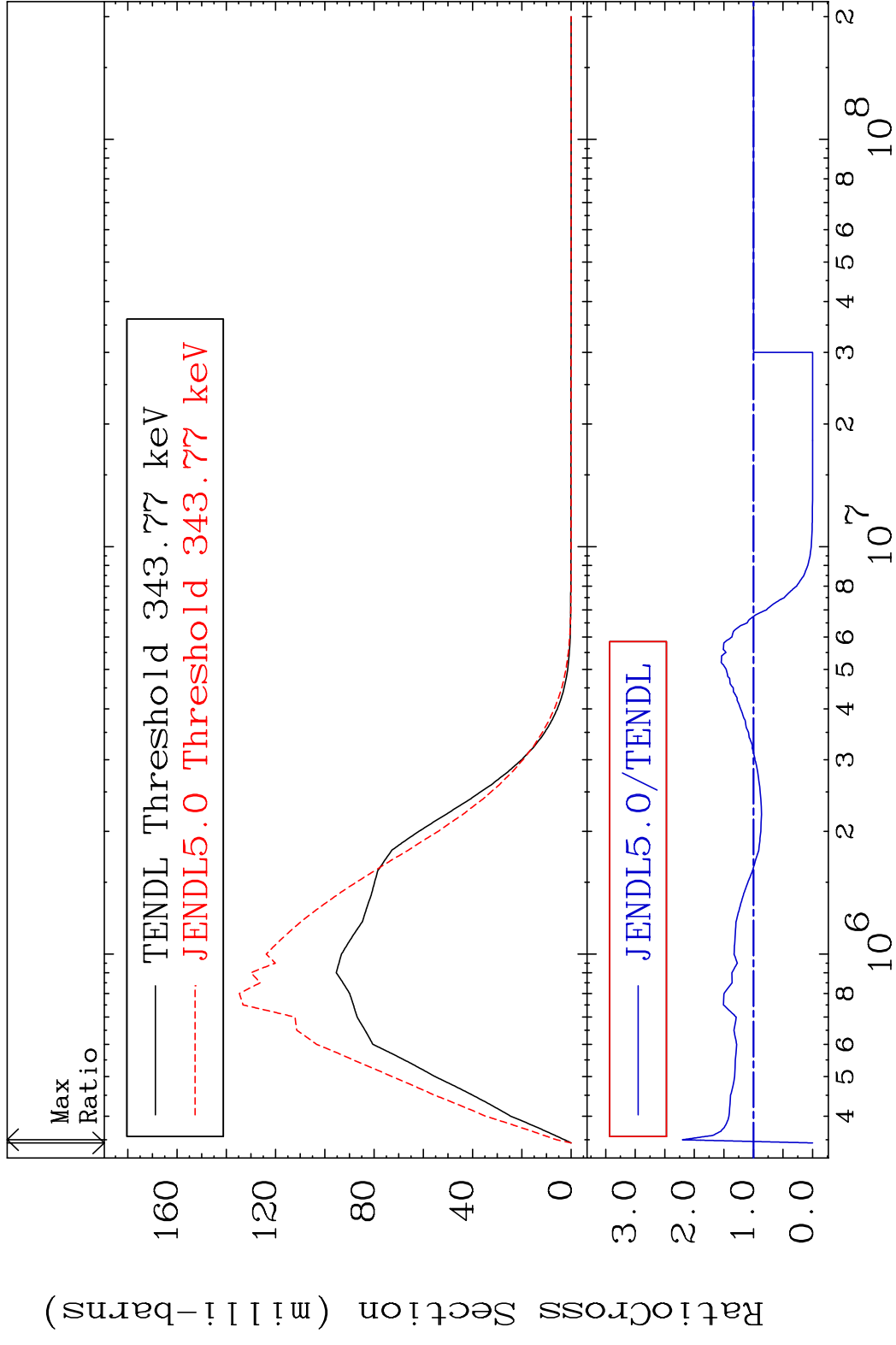


54-Xe-131

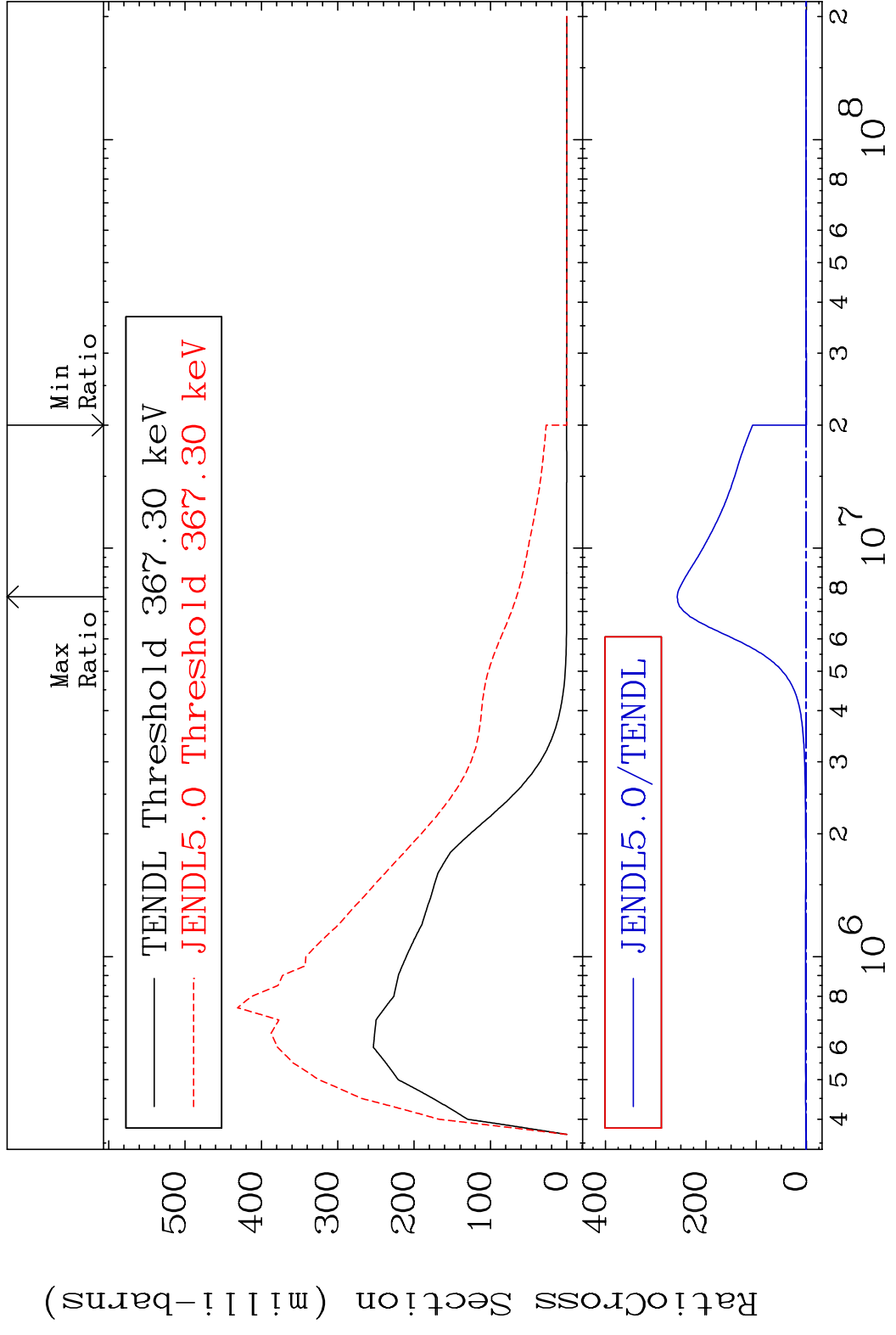
MAT 5446 MT= 52 (n, n') Level 54-Xe-131
 Cross Section -100.0 To 47.61 %



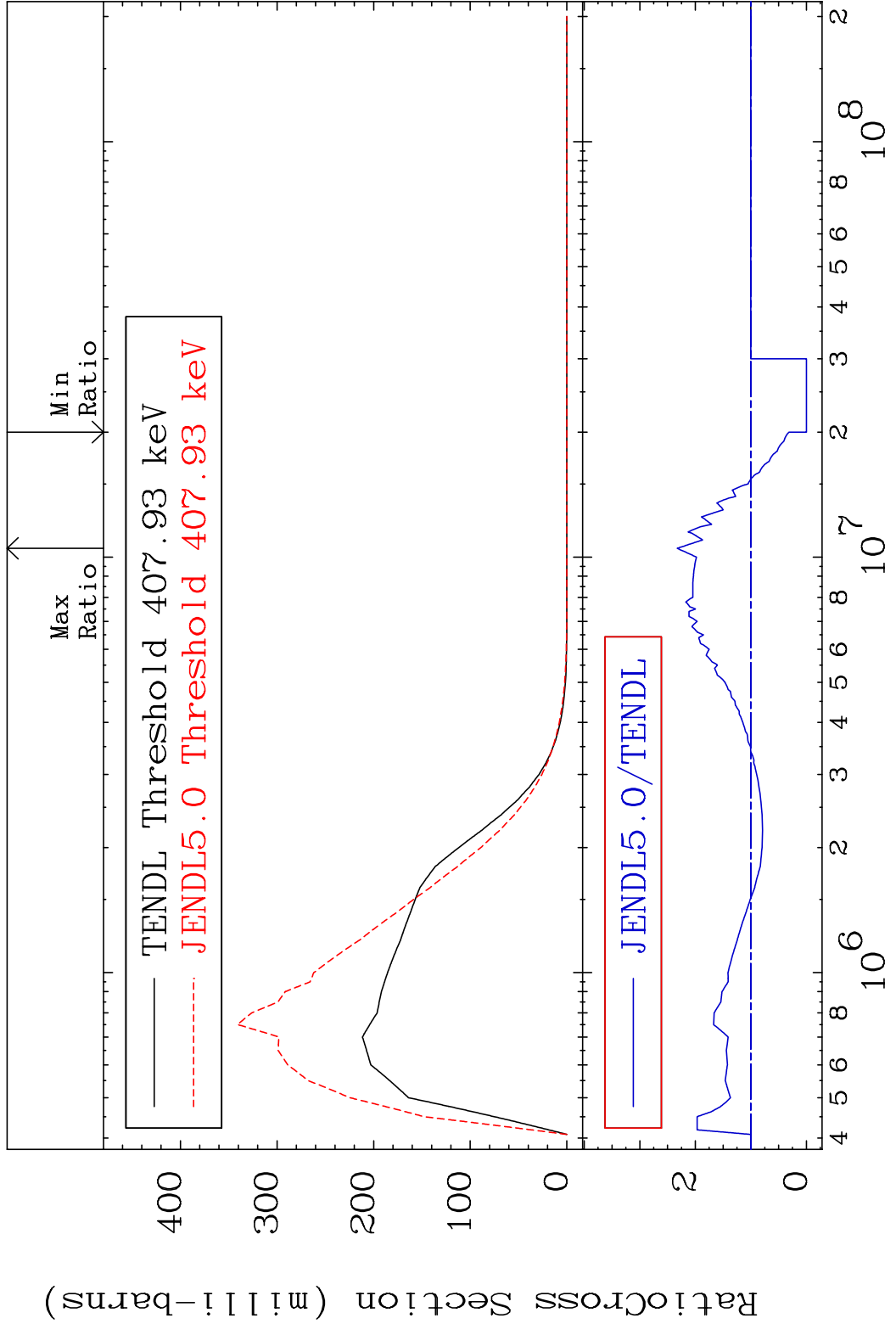
MAT 5446 MT= 53 (n,n') Level 54-Xe-131
 Cross Section -100.0 To 120.3 %



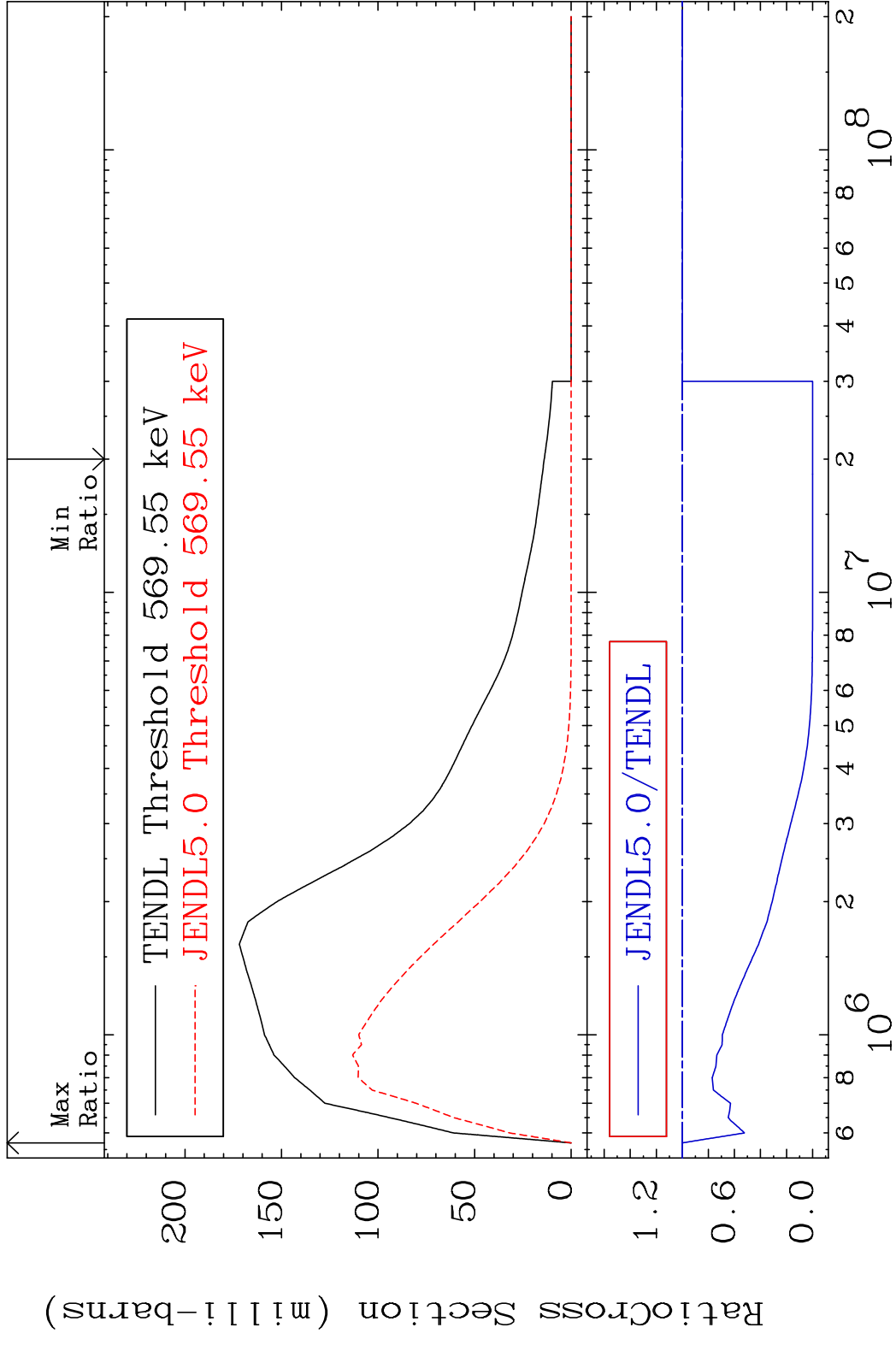
MAT 5446 MT= 54 (n, n') Level 54-Xe-131
 Cross Section -100.0 To 9999. %



MAT 5446 MT= 55 (n, n') Level 54-Xe-131
 Cross Section -100.0 To 132.6 %

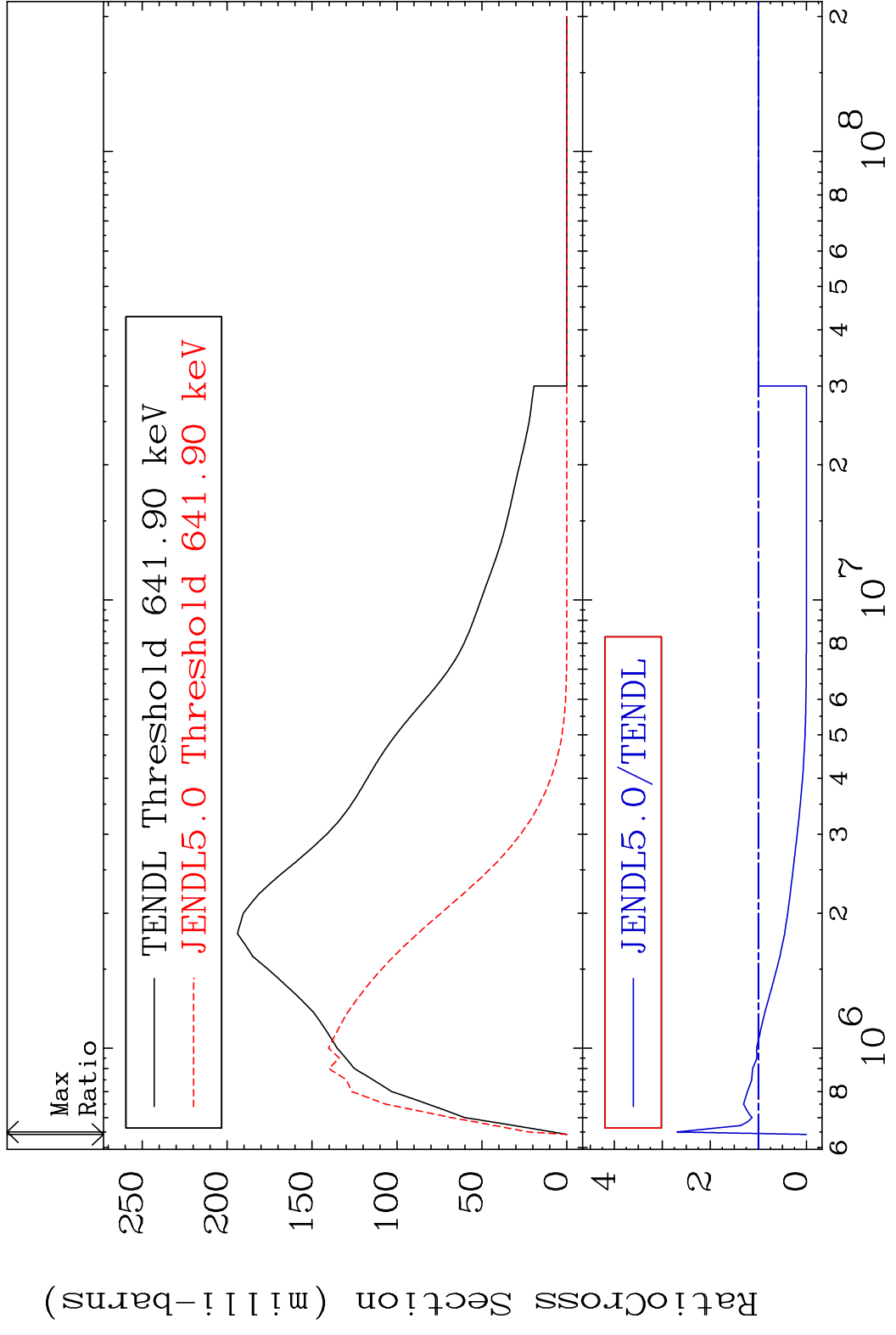


MAT 5446 MT= 56 (n, n') Level 54-Xe-131
 Cross Section -100.0 To 0.000 %

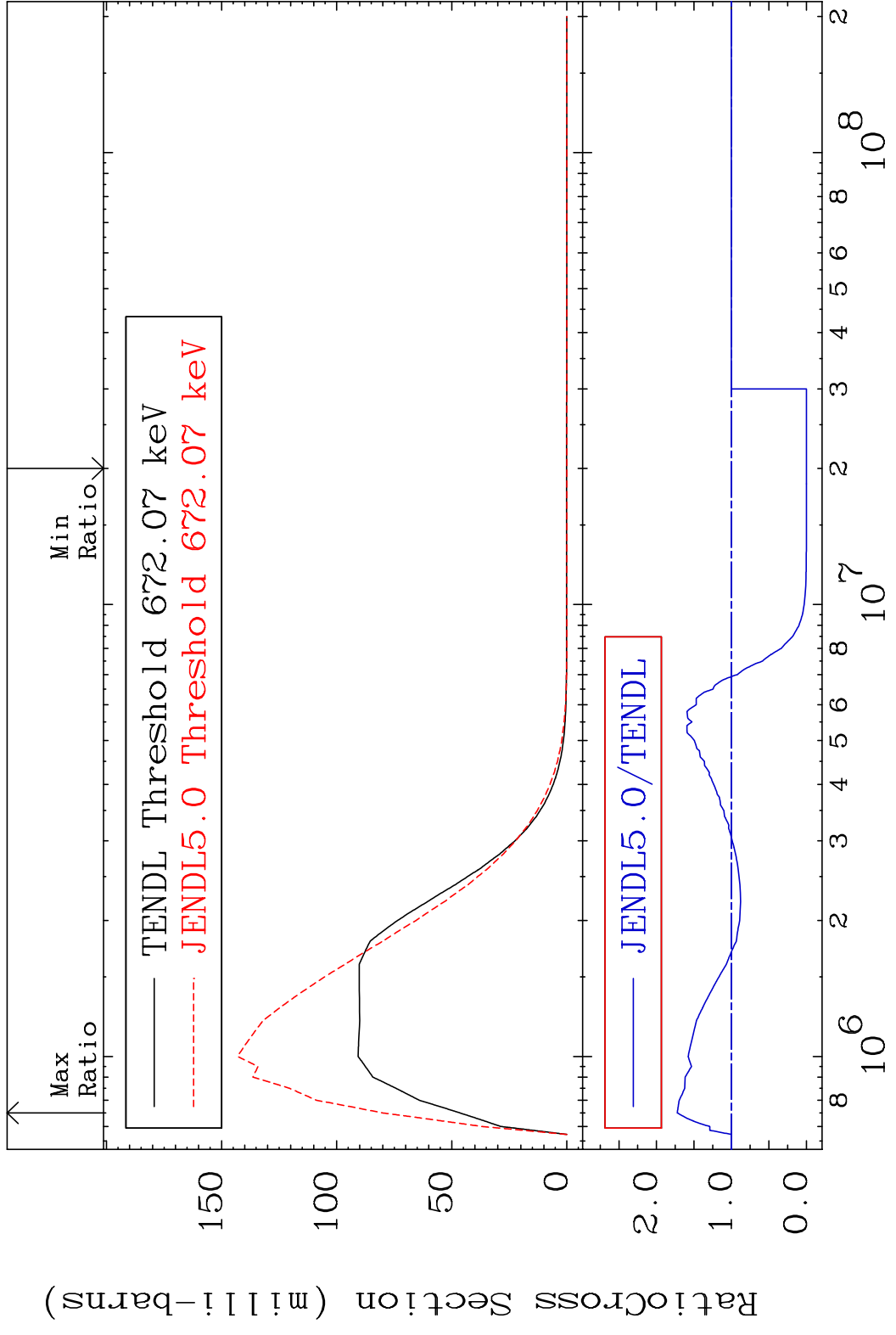


15 Incident Energy (eV) 54-Xe-131

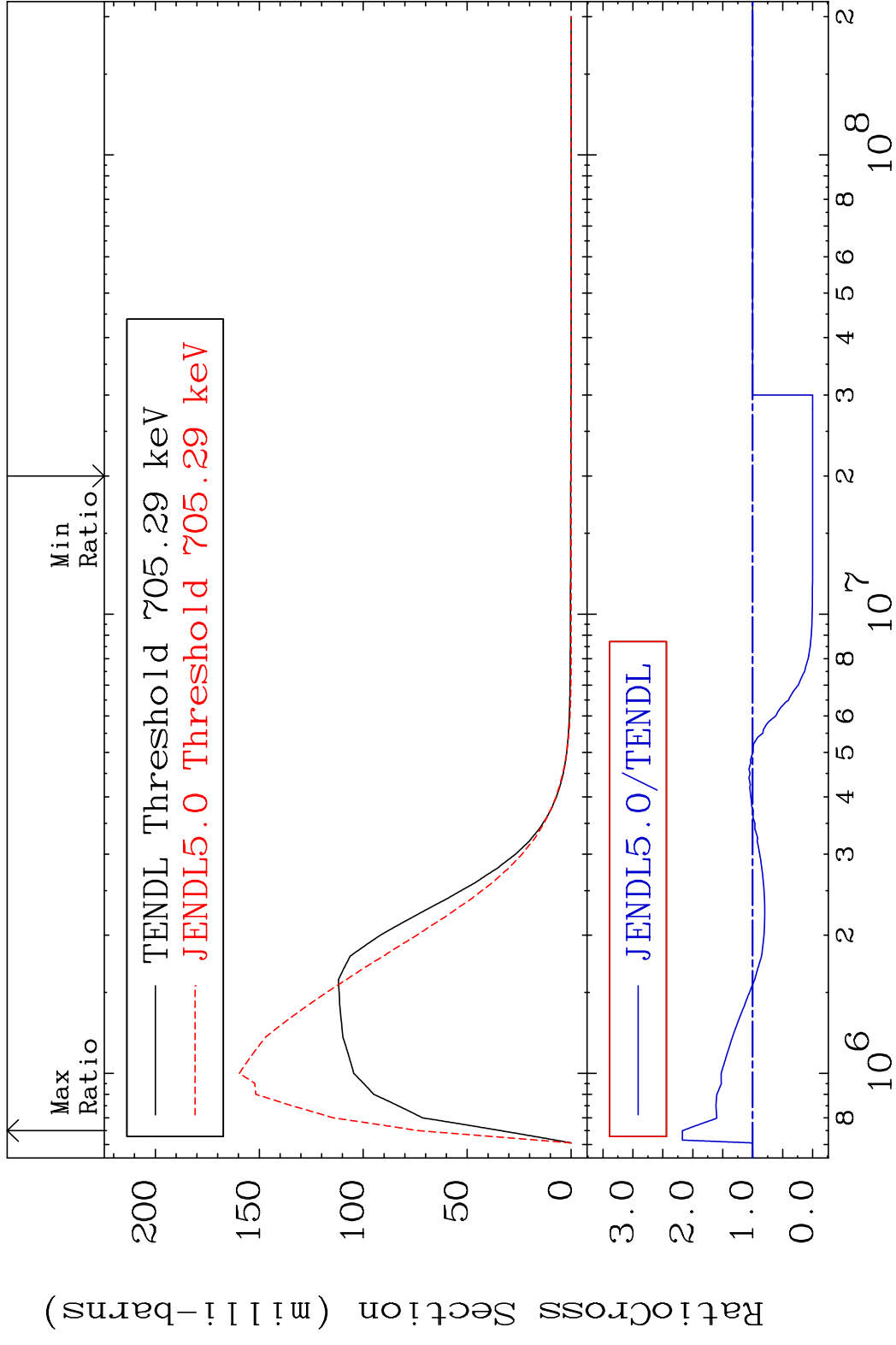
MAT 5446 MT= 57 (n, n') Level 54-Xe-131
 Cross Section -100.0 To 169.0 %



MAT 5446 MT= 58 (n, n') Level 54-Xe-131
 Cross Section -100.0 To 72.33 %

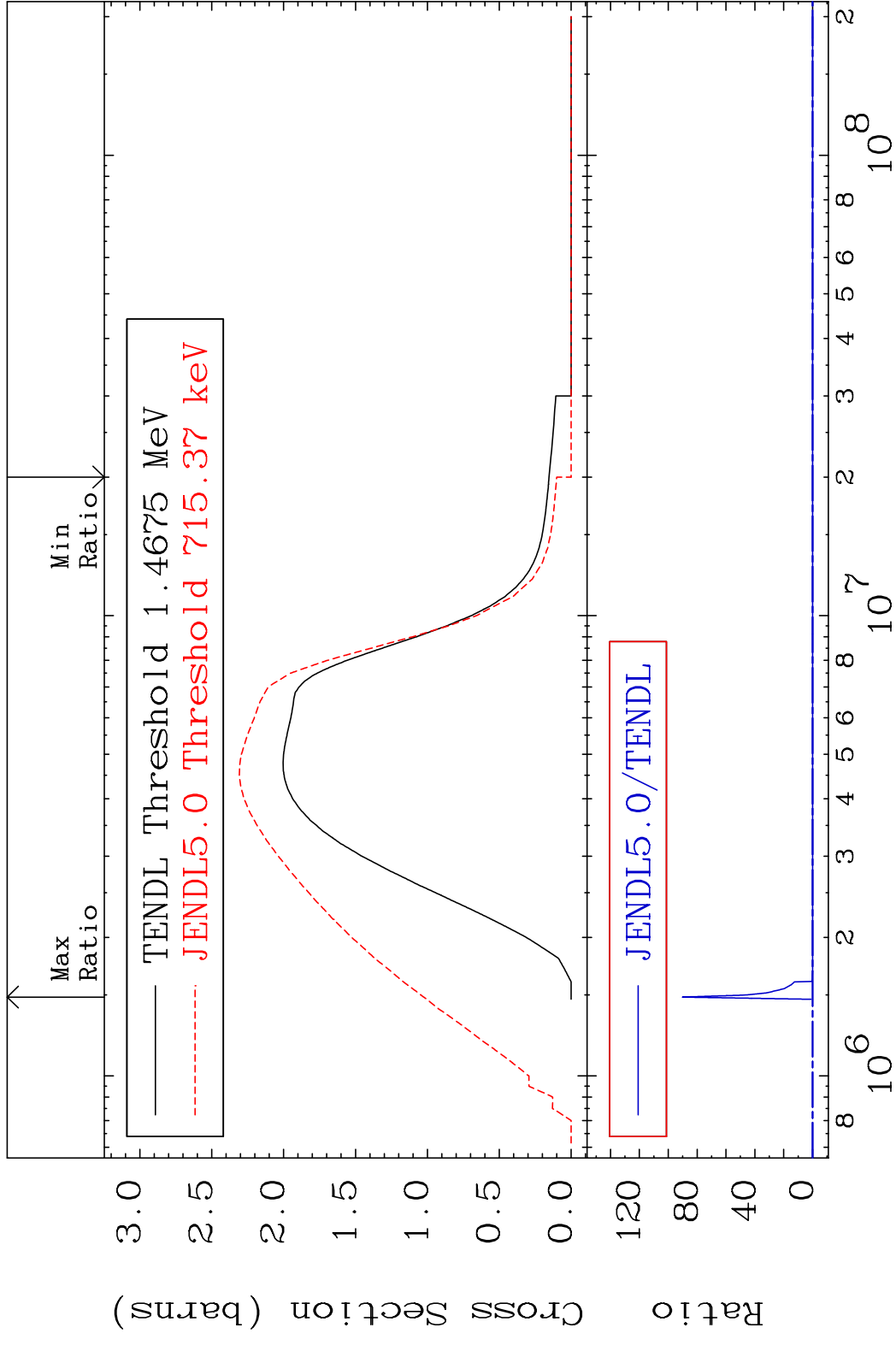


MAT 5446 MT= 59 (n, n') Level 54-Xe-131
 Cross Section -100.0 To 117.5 %



18 Incident Energy (eV) 54-Xe-131

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

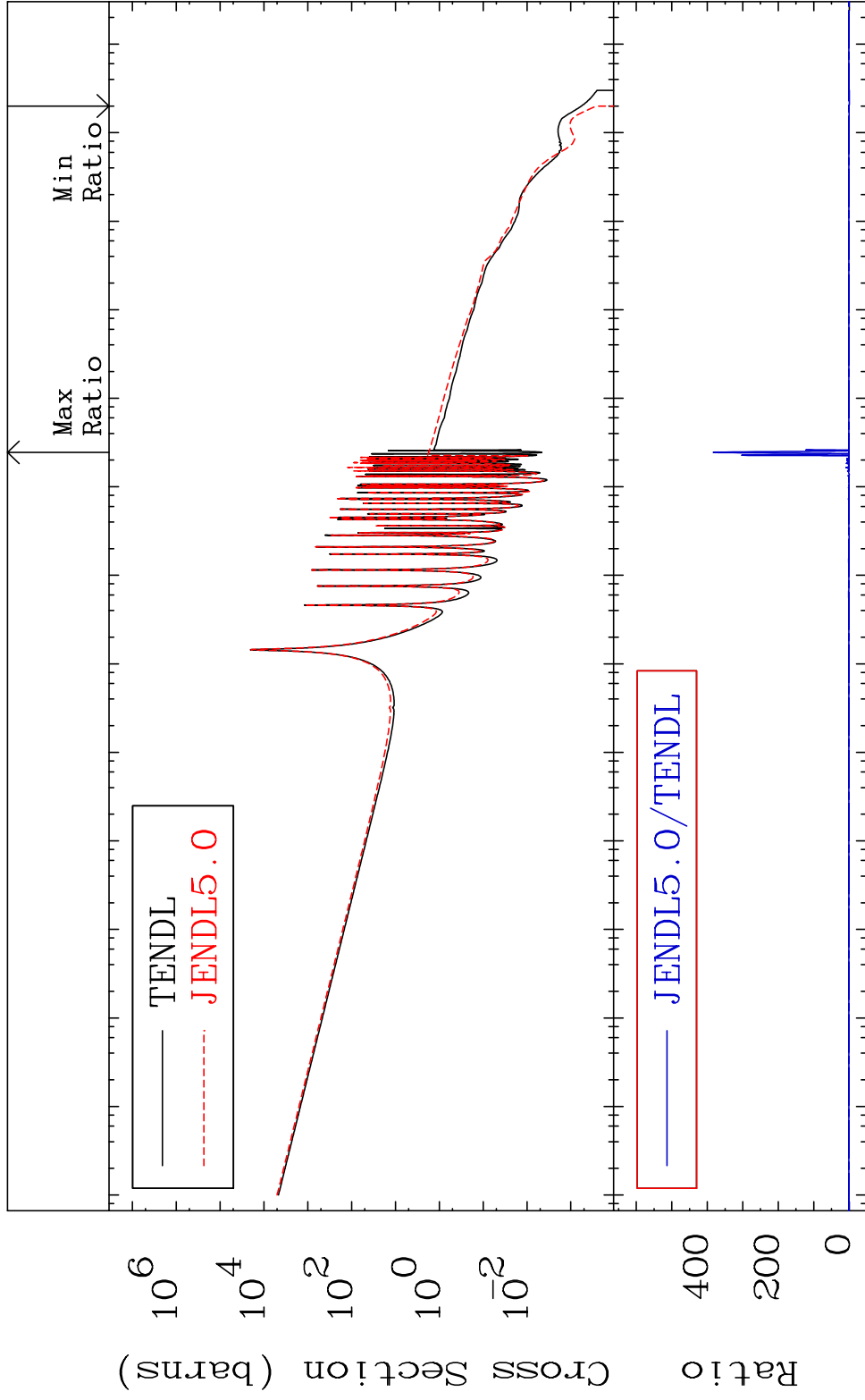


MAT 5446

(n, γ)

54-Xe-131

Cross Section -100.0 To 9999. %

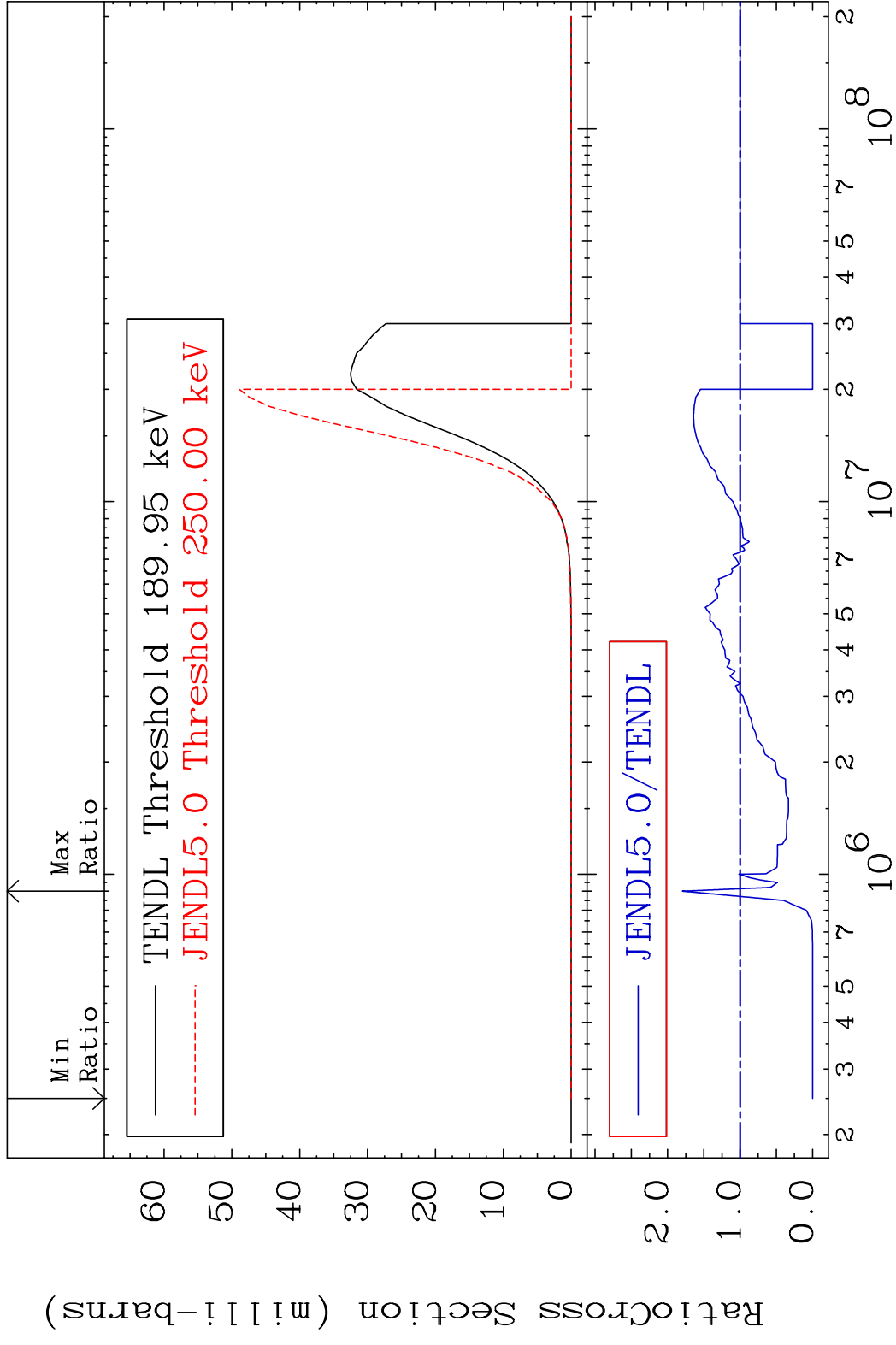


20

Incident Energy (eV)

54-Xe-131

MAT 5446 (n,p) 54-Xe-131
 Cross Section -100.0 To 79.64 %

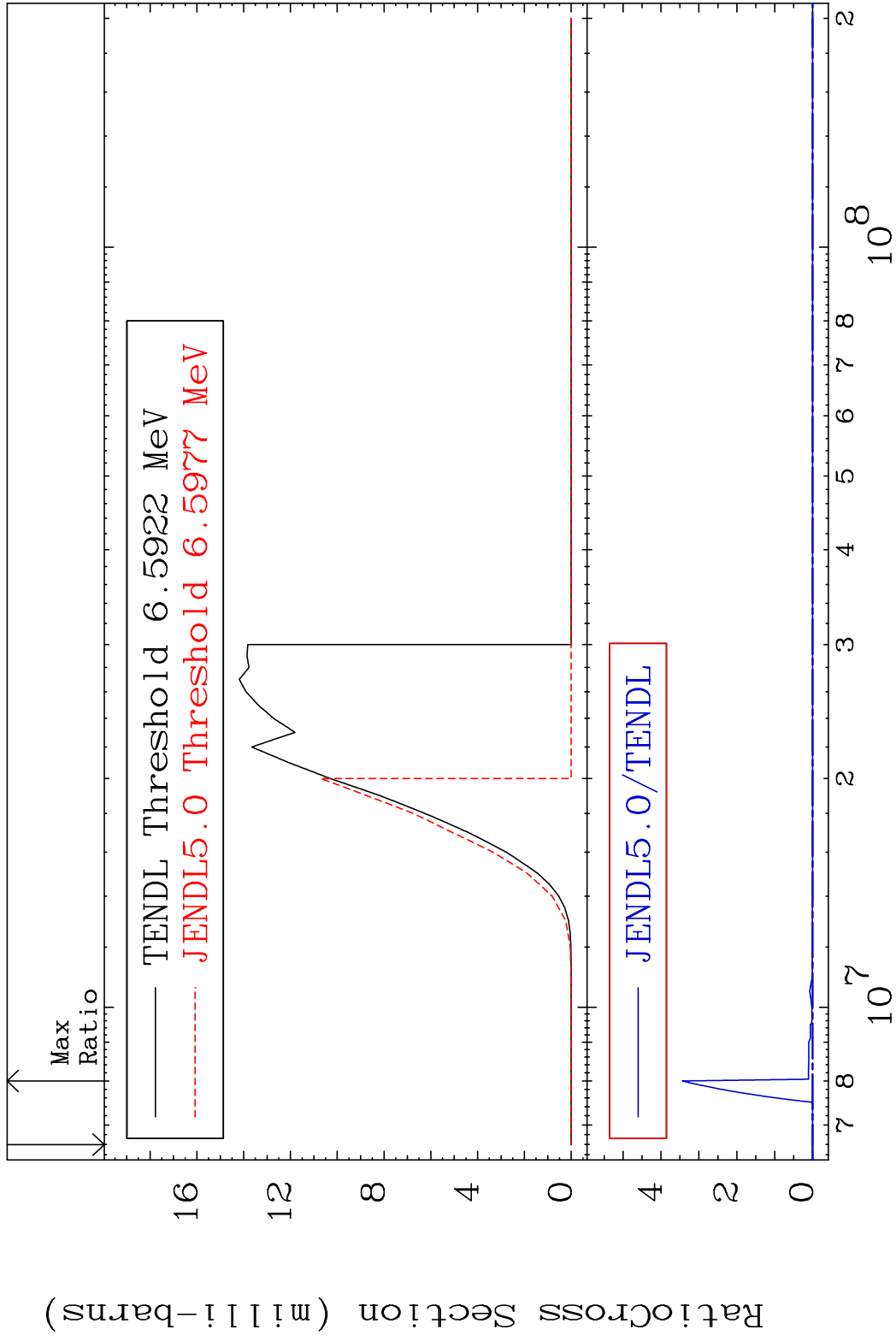


MAT 5446

(n,d)

54-Xe-131

Cross Section -100.0 To 9999. %

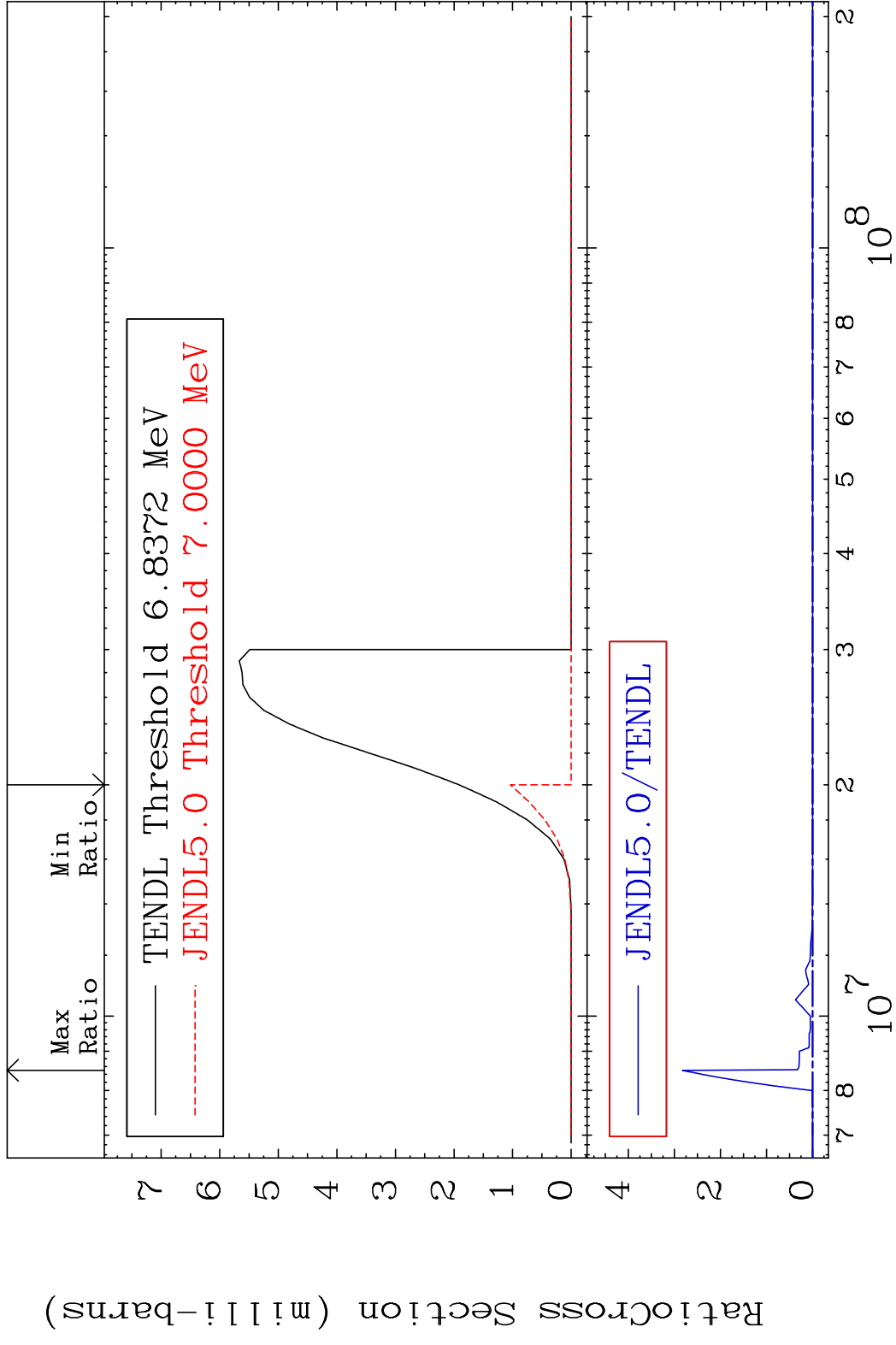


22

Incident Energy (eV)

54-Xe-131

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

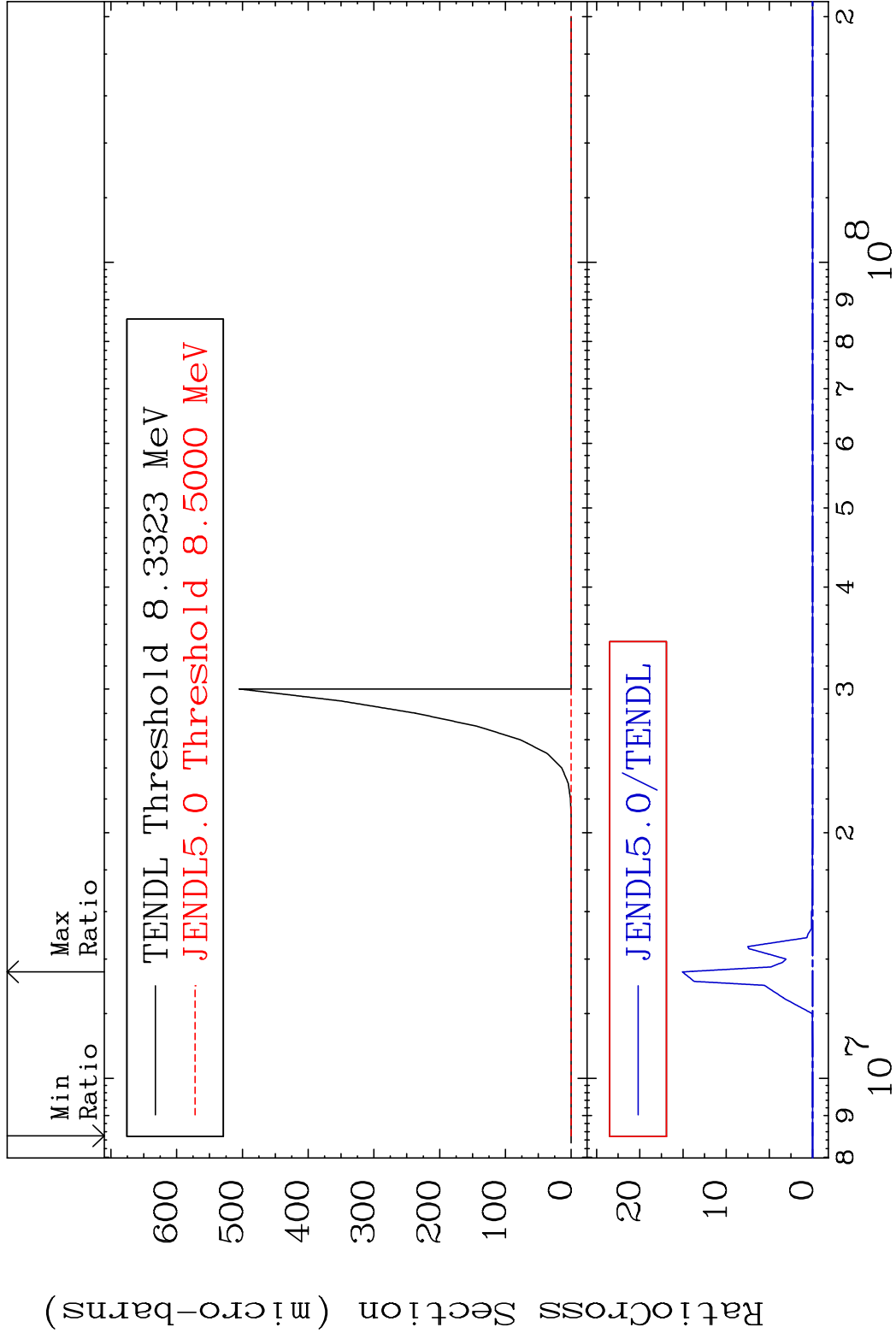


MAT 5446

(n, He-3)

54-Xe-131

Cross Section -100.0 To 9999. %



24

Incident Energy (eV)

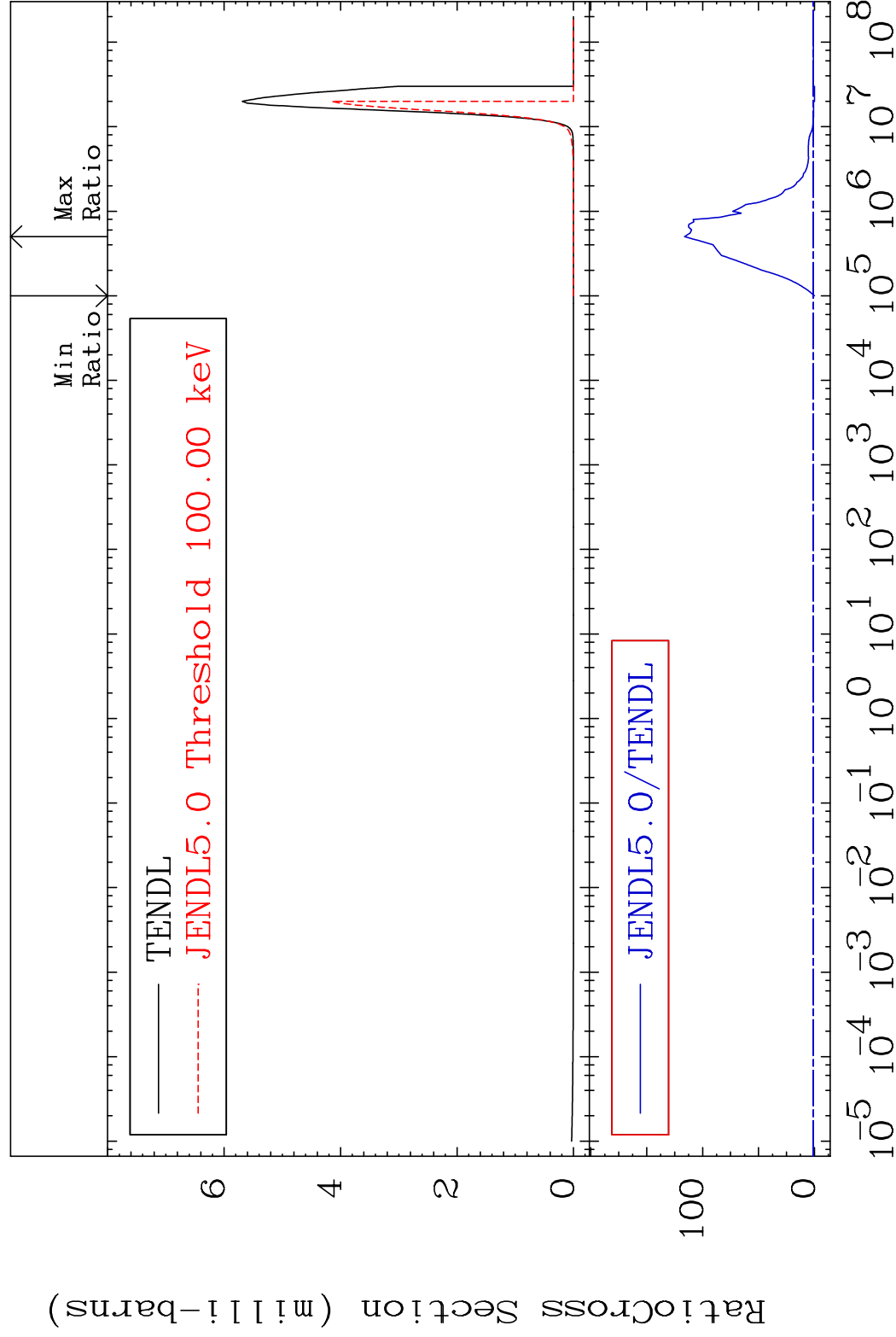
54-Xe-131

MAT 5446

(n, α)

54-Xe-131

Cross Section -100.0 To 9999. %

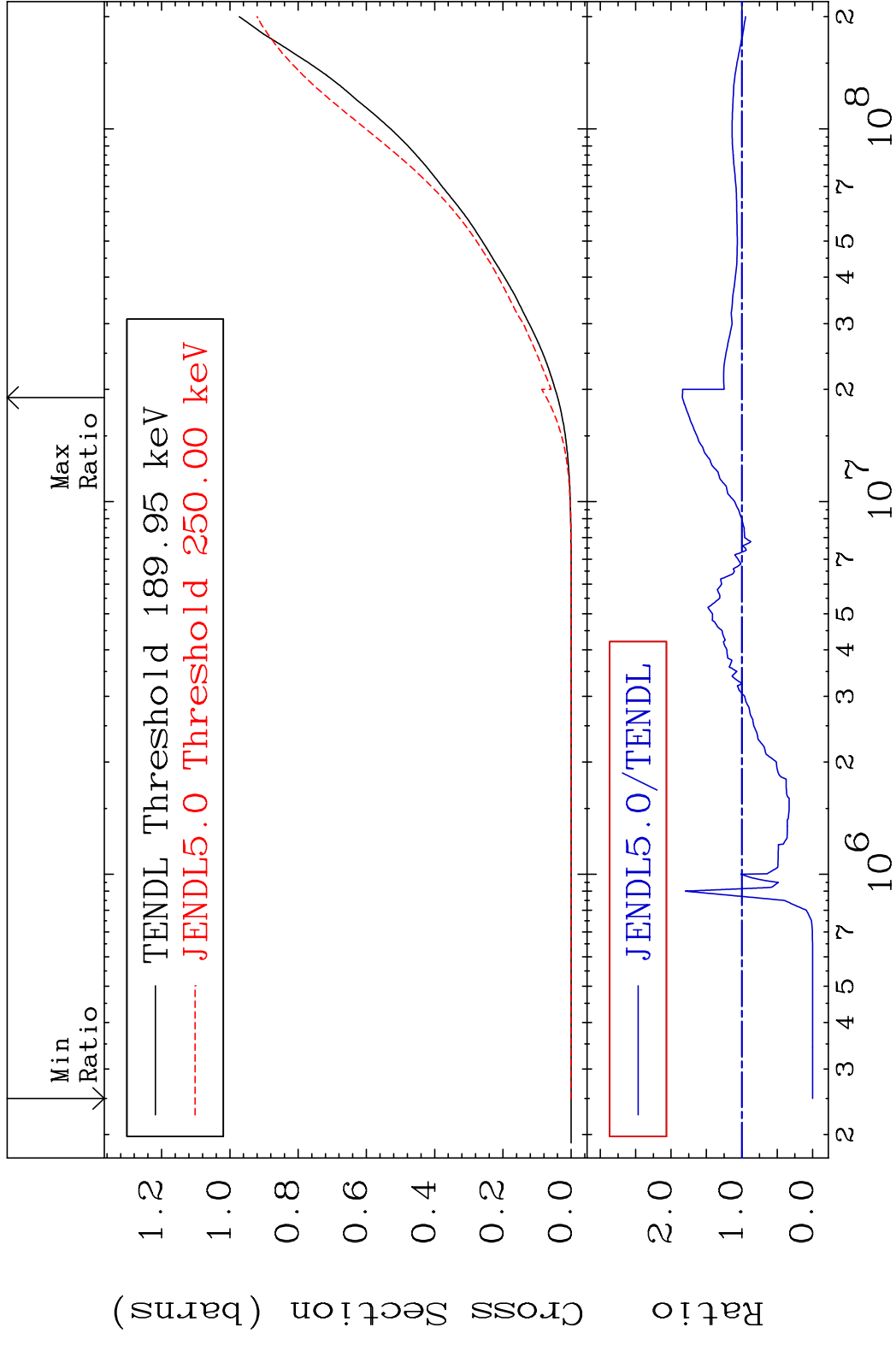


25

Incident Energy (eV)

54-Xe-131

MAT 5446 Hydrogen Production 54-Xe-131
 Cross Section -100.0 To 84.02 %

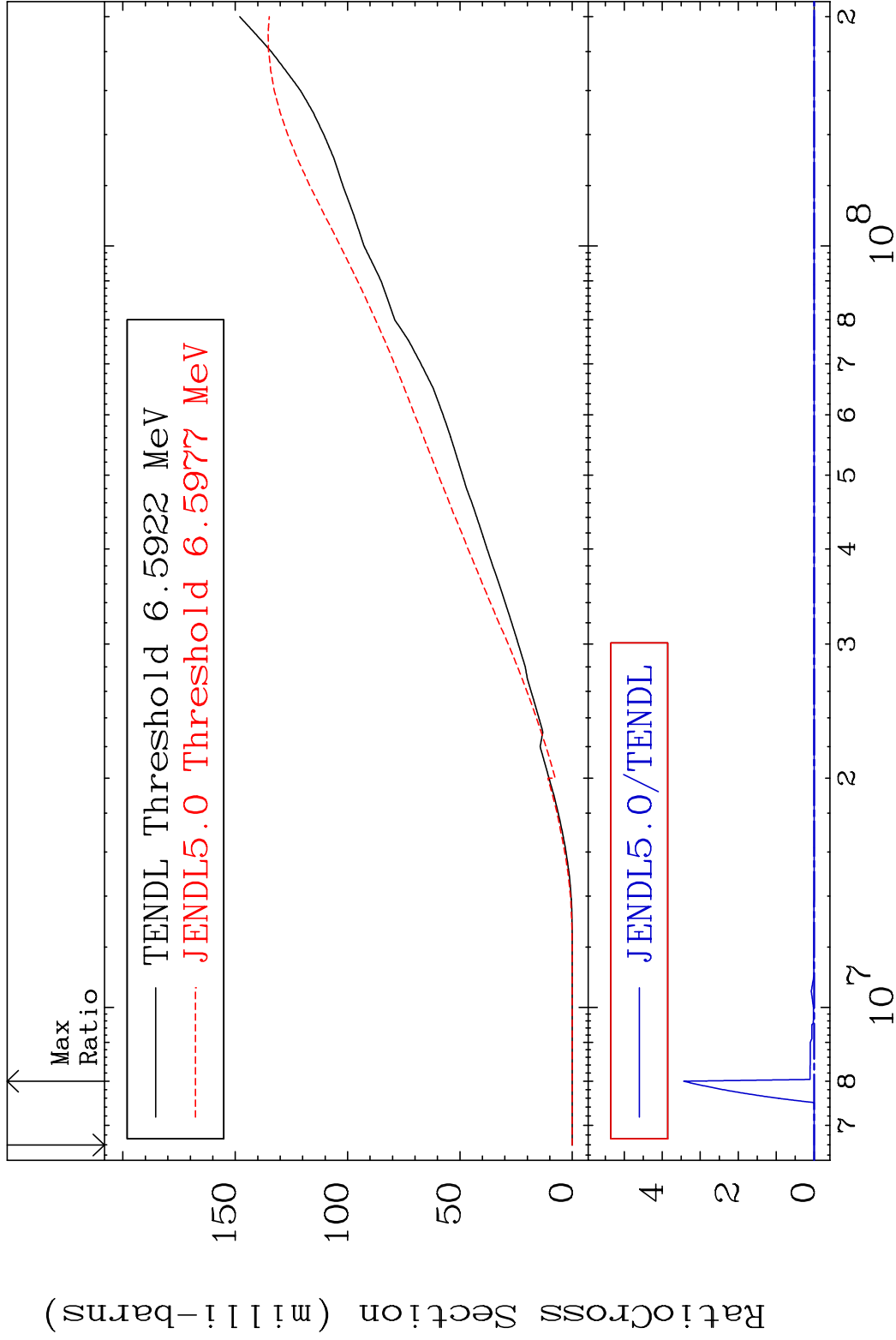


MAT 5446

Deuterium Production

54-Xe-131

Cross Section -100.0 To 9999. %

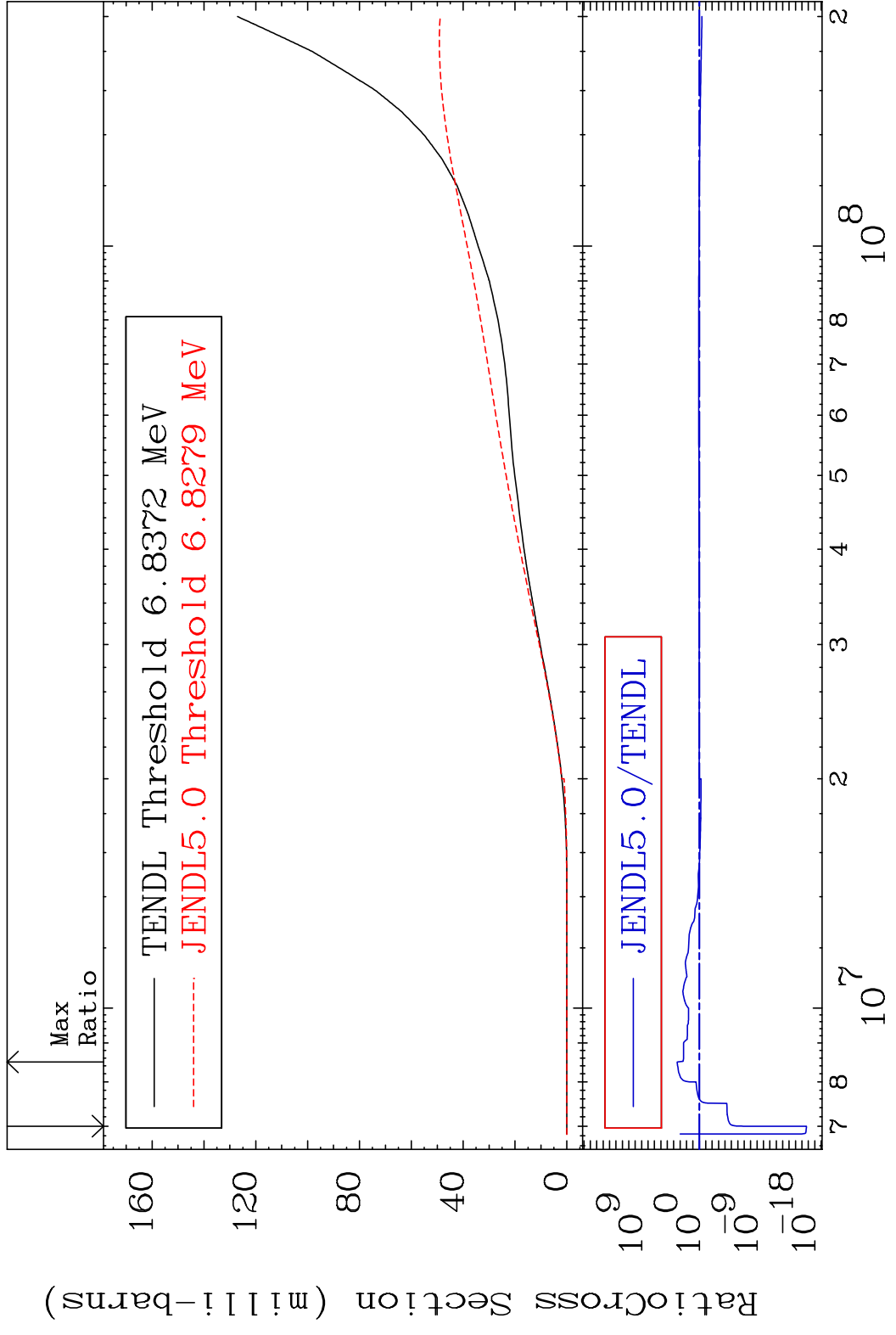


27

Incident Energy (eV)

54-Xe-131

MAT 5446 Tritium Production 54-Xe-131
 Cross Section -100.0 To 9999. %

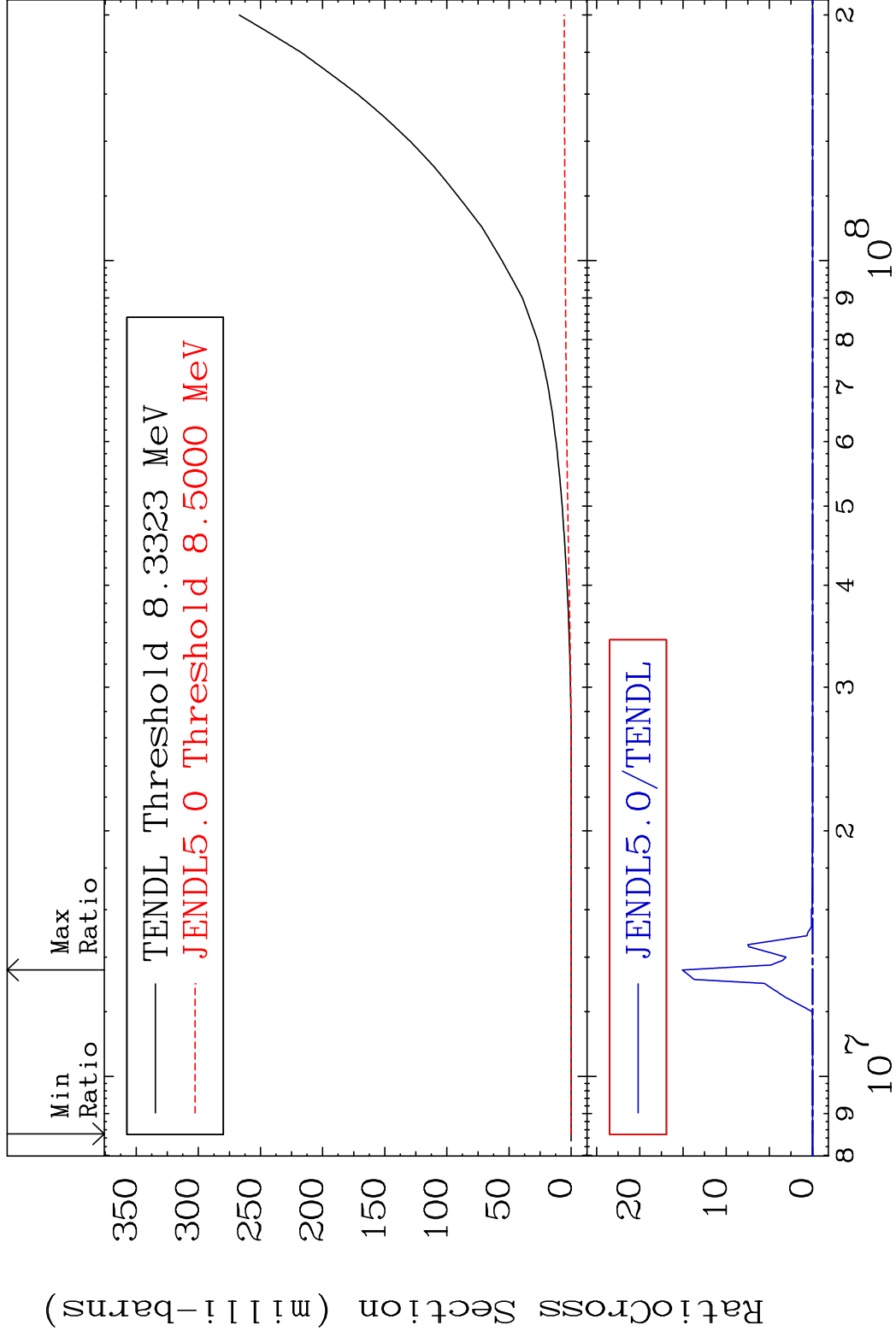


MAT 5446

He-3 Production

54-Xe-131

Cross Section -100.0 To 9999. %



29

Incident Energy (eV)

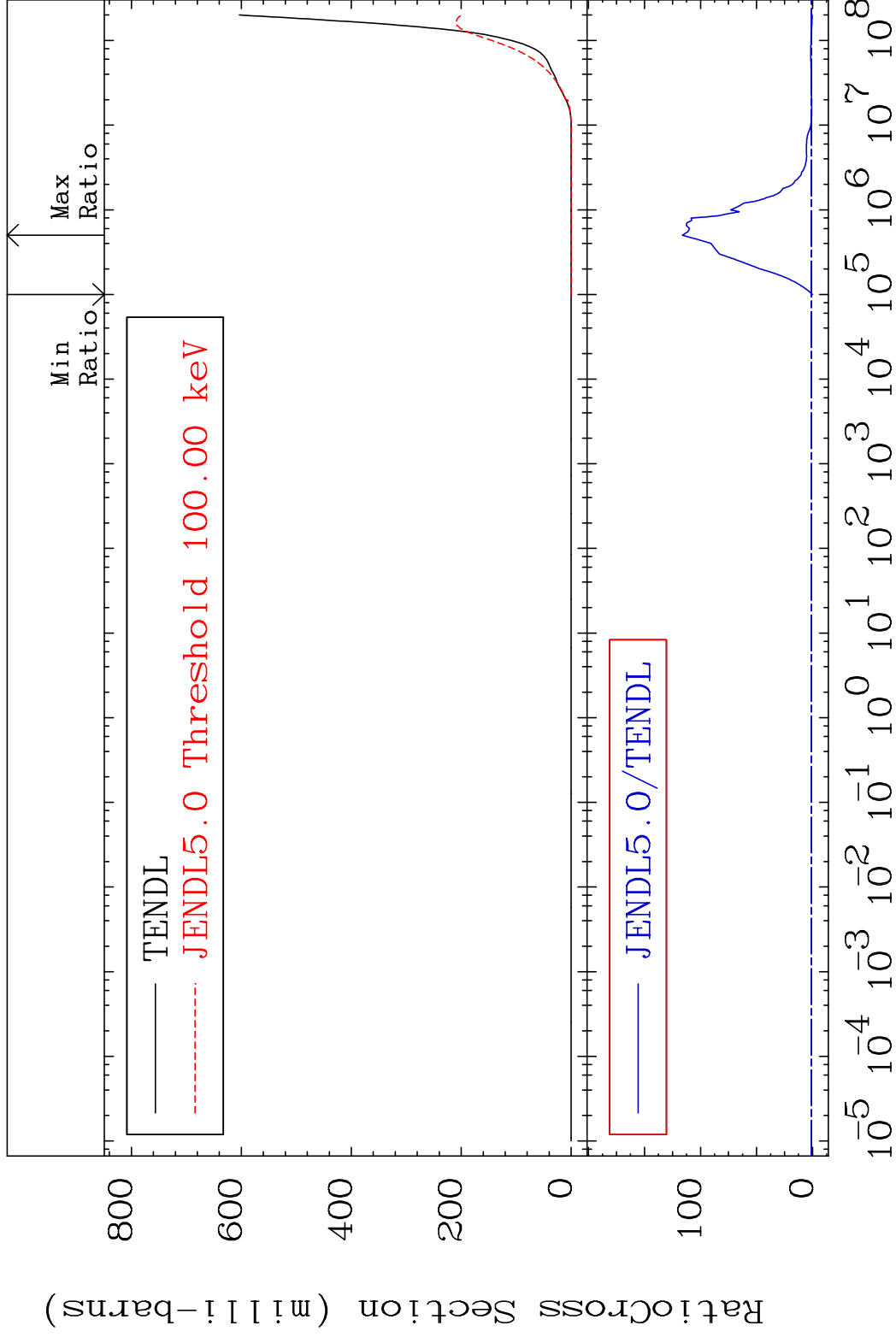
54-Xe-131

MAT 5446

He-4 Production

54-Xe-131

Cross Section -100.0 To 9999. %

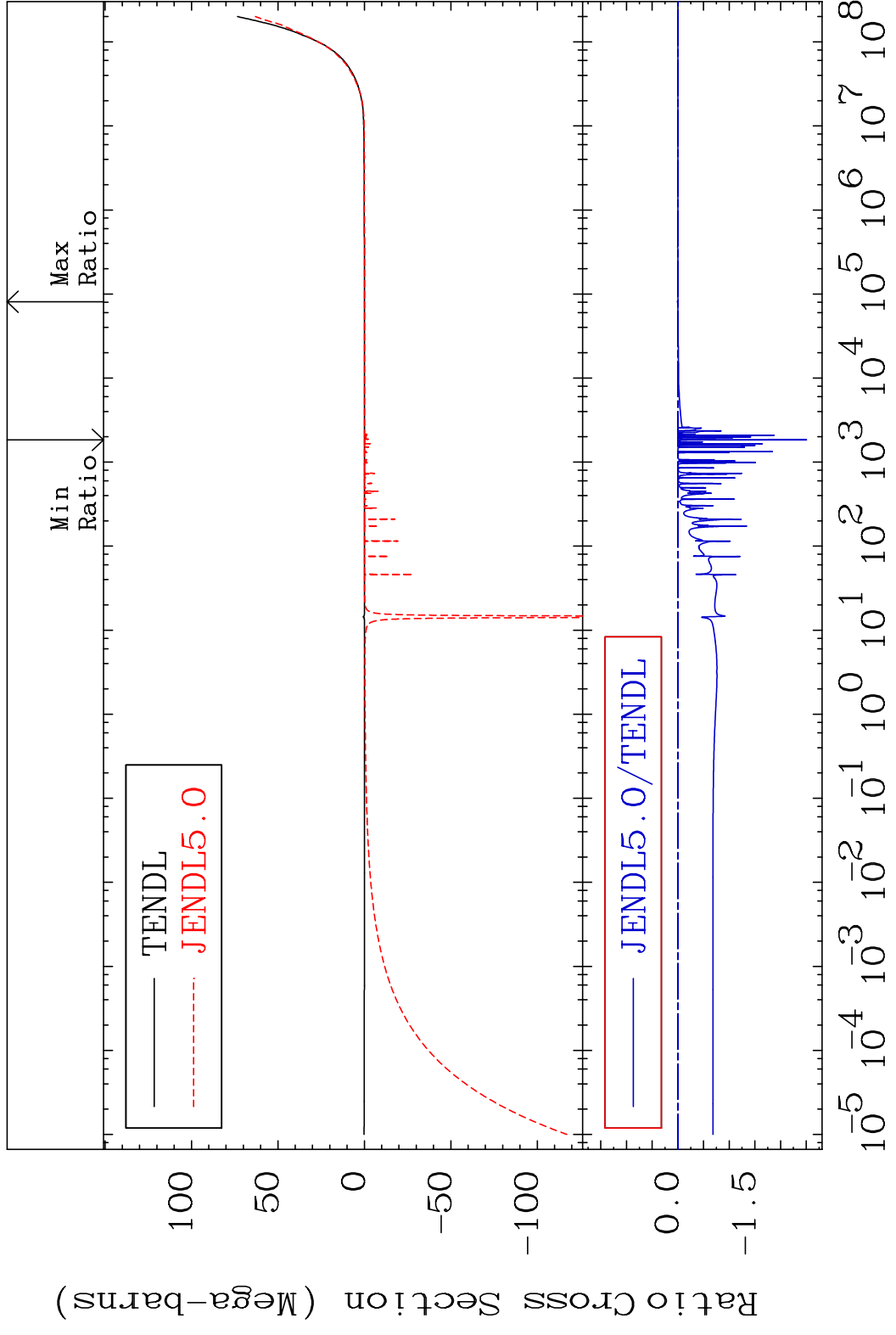


30

Incident Energy (eV)

54-Xe-131

MAT 5446 Kerma total (eV-barns) 54-Xe-131
 Cross Section -9999. To 1189. %

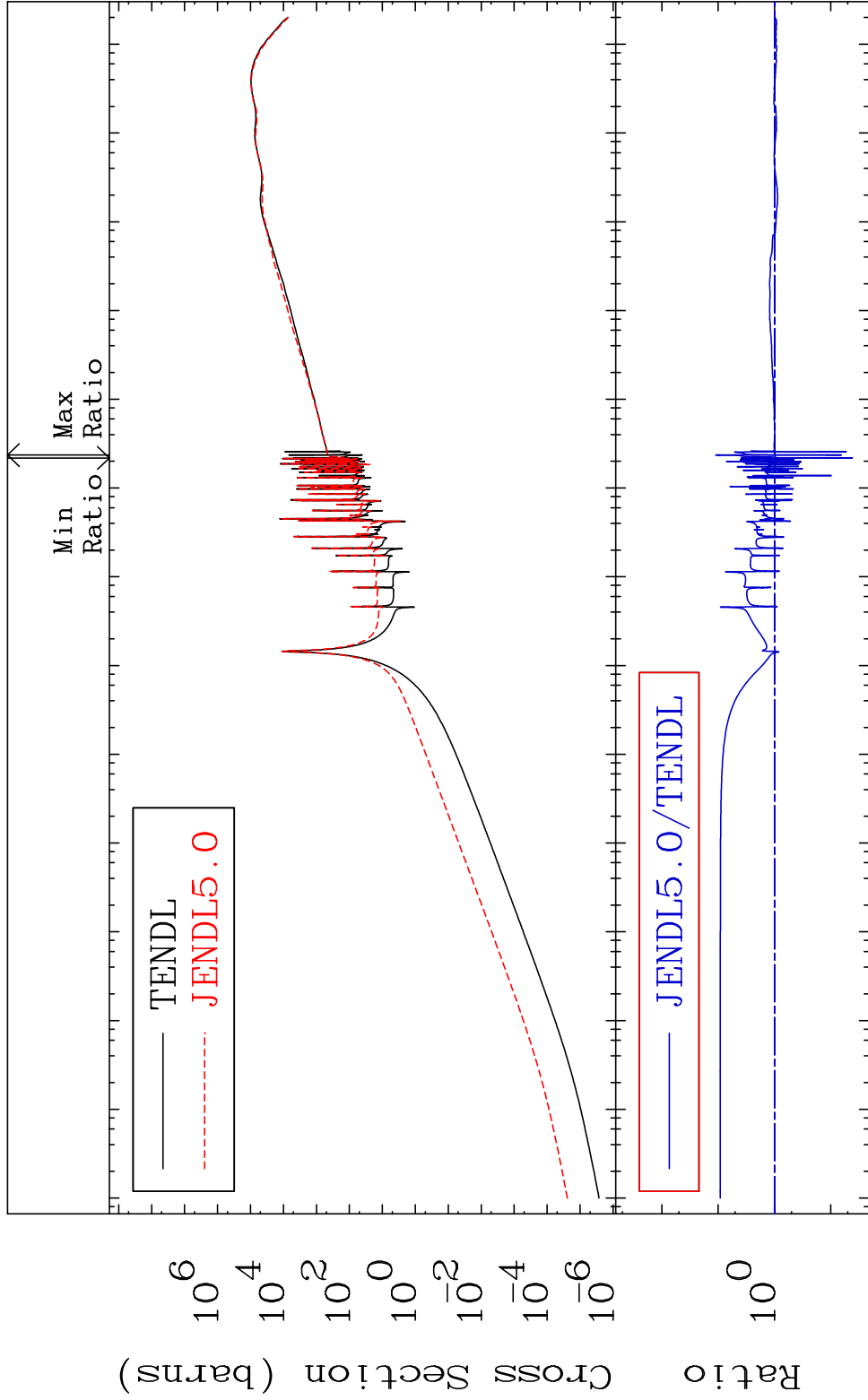


31 Incident Energy (eV) 54-Xe-131

MAT 5446

Kerma elastic Cross Section -95.83 To 1009. %

54-Xe-131

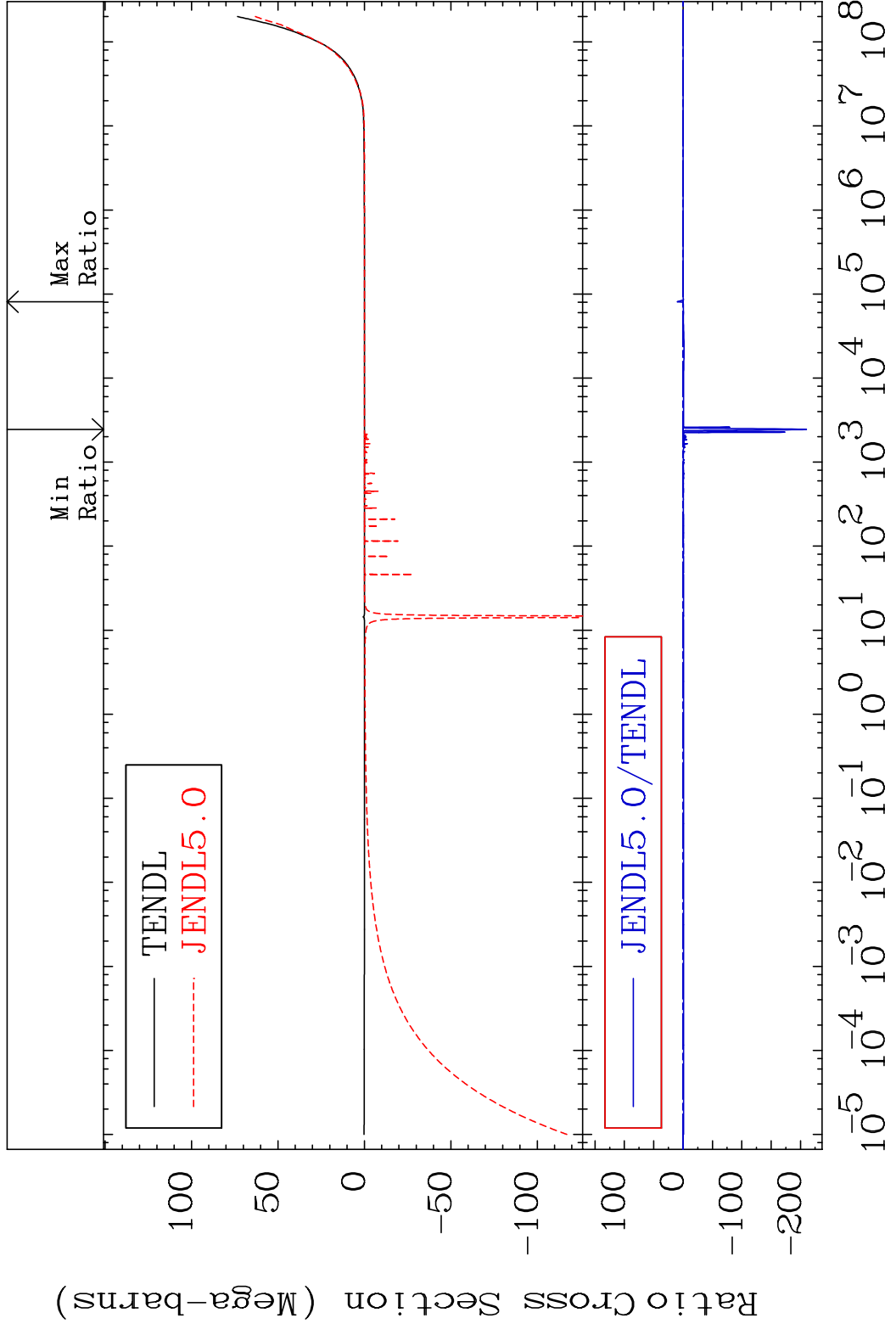


32

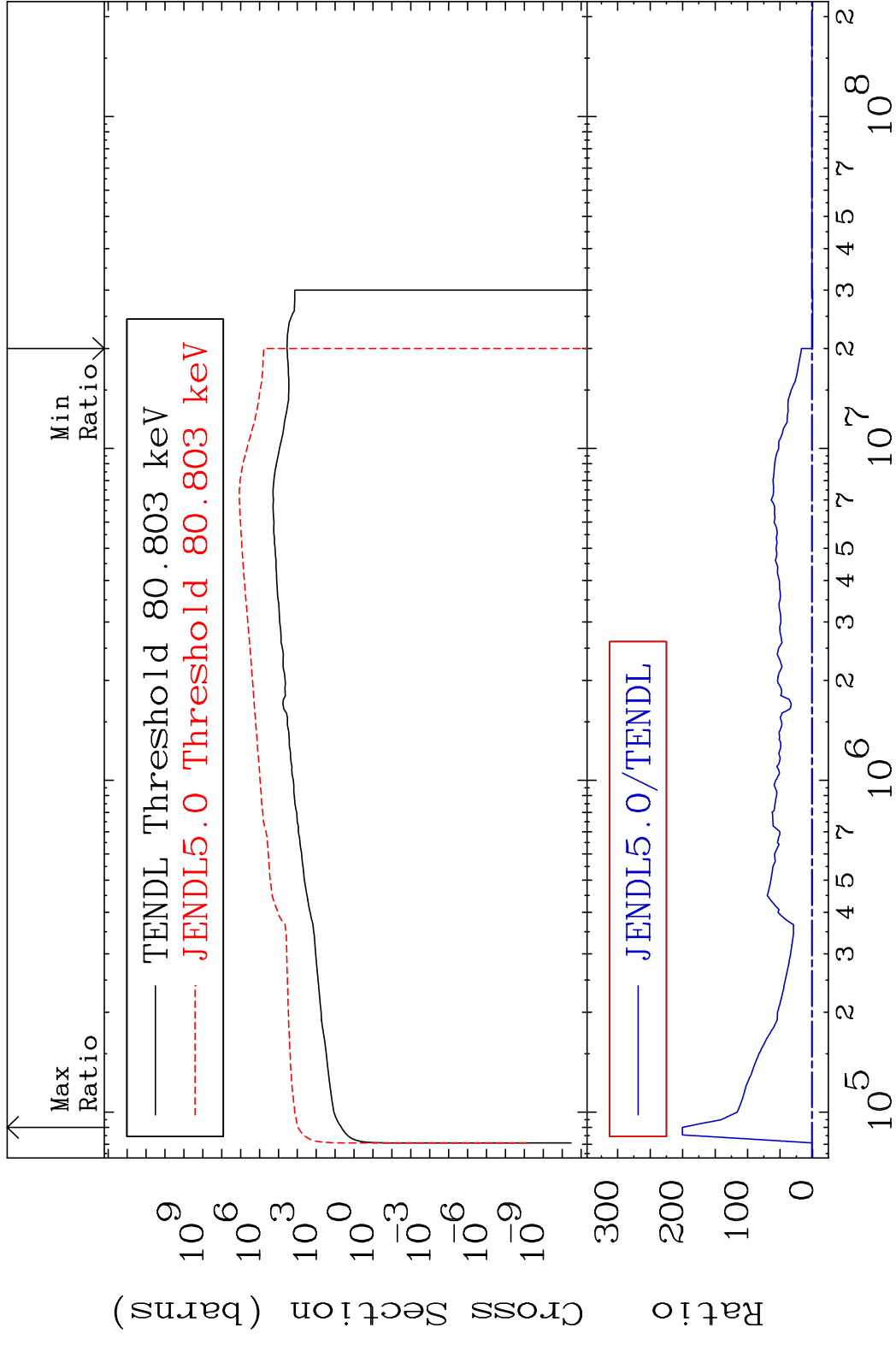
Incident Energy (eV)

54-Xe-131

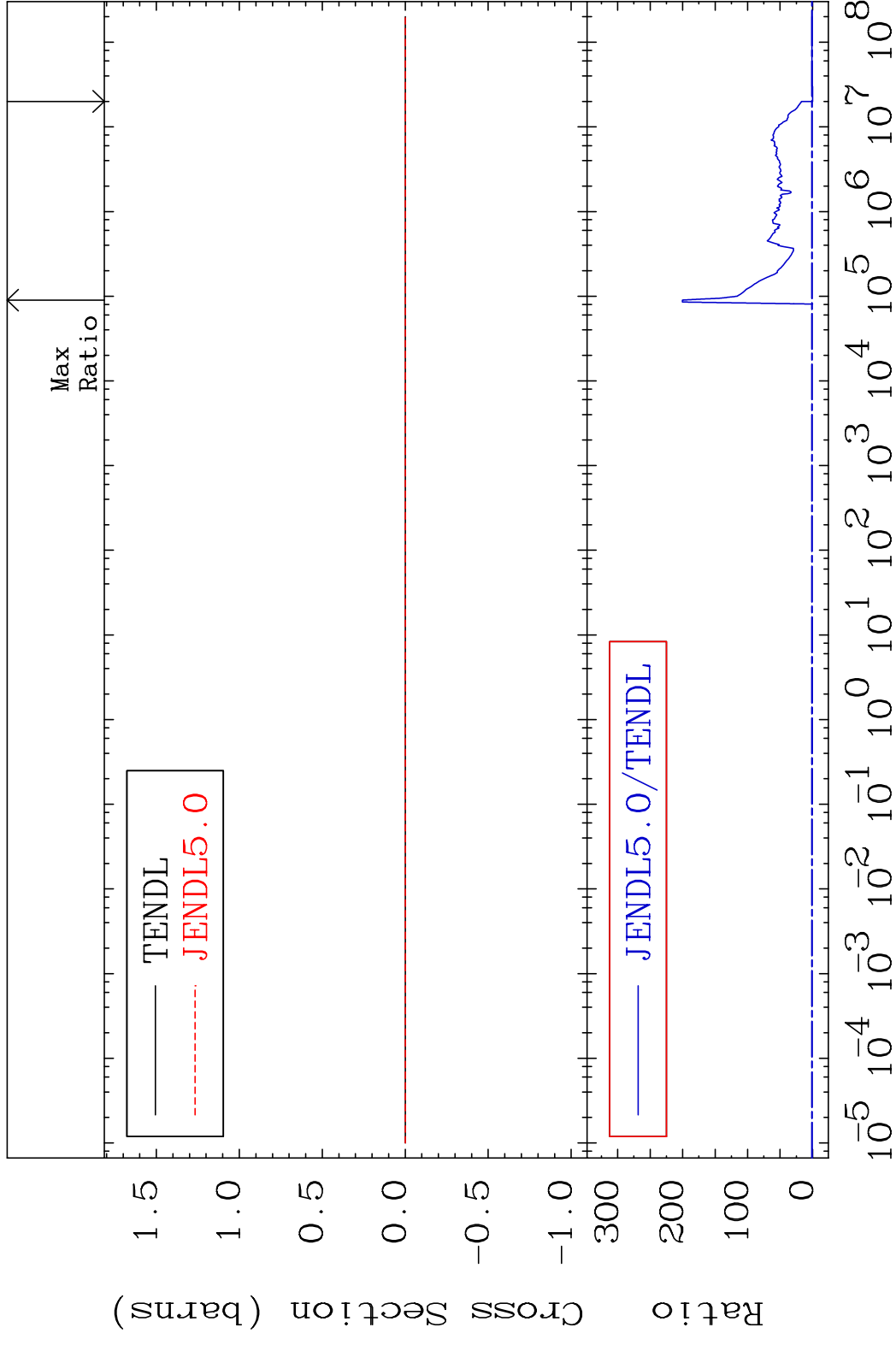
MAT 5446 Kerma non-elastic (all but mt2) 54-Xe-131
 Cross Section -9999. To 9999. %



MAT 5446 Kerma inelastic (mt51-91) 54-Xe-131
 Cross Section -100.0 To 9999. %



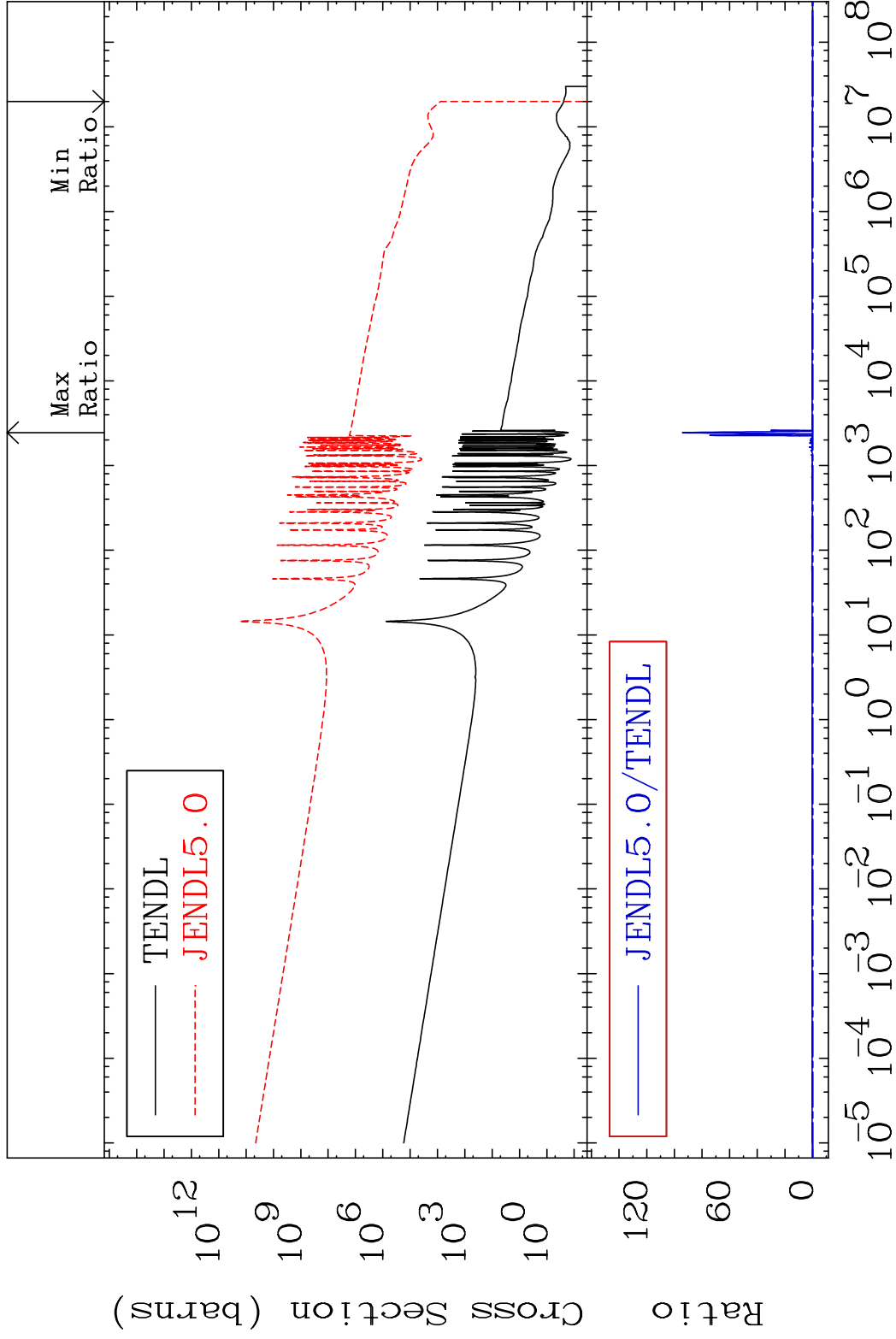
MAT 5446 Kerma fission (mt18 or mt19-20-21-38) 54-Xe-131
 Cross Section -100.0 To 9999. %



MAT 5446

Kerma capture (mt102) 54-Xe-131

Cross Section -100.0 To 9999. %

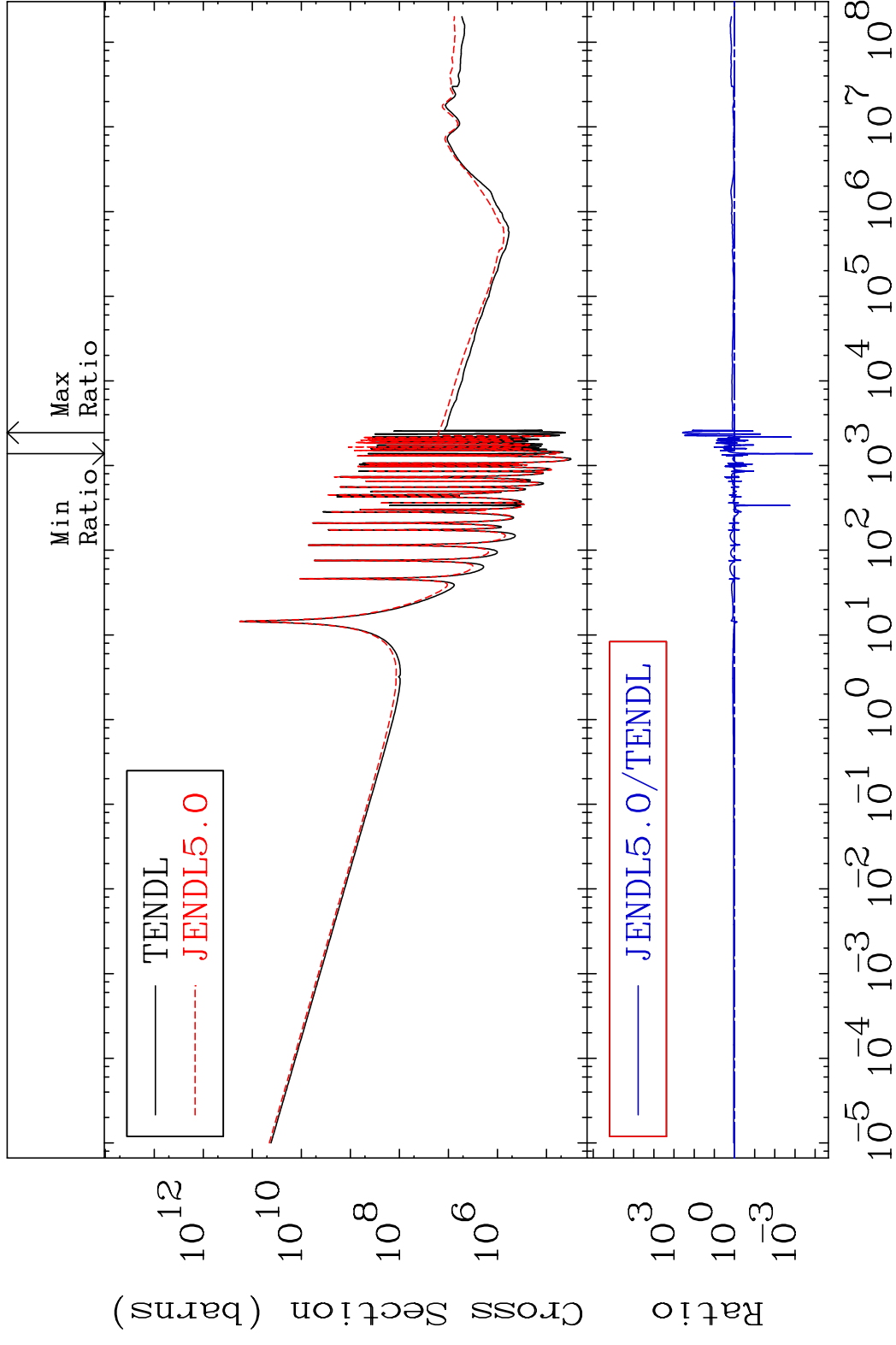


36

Incident Energy (eV)

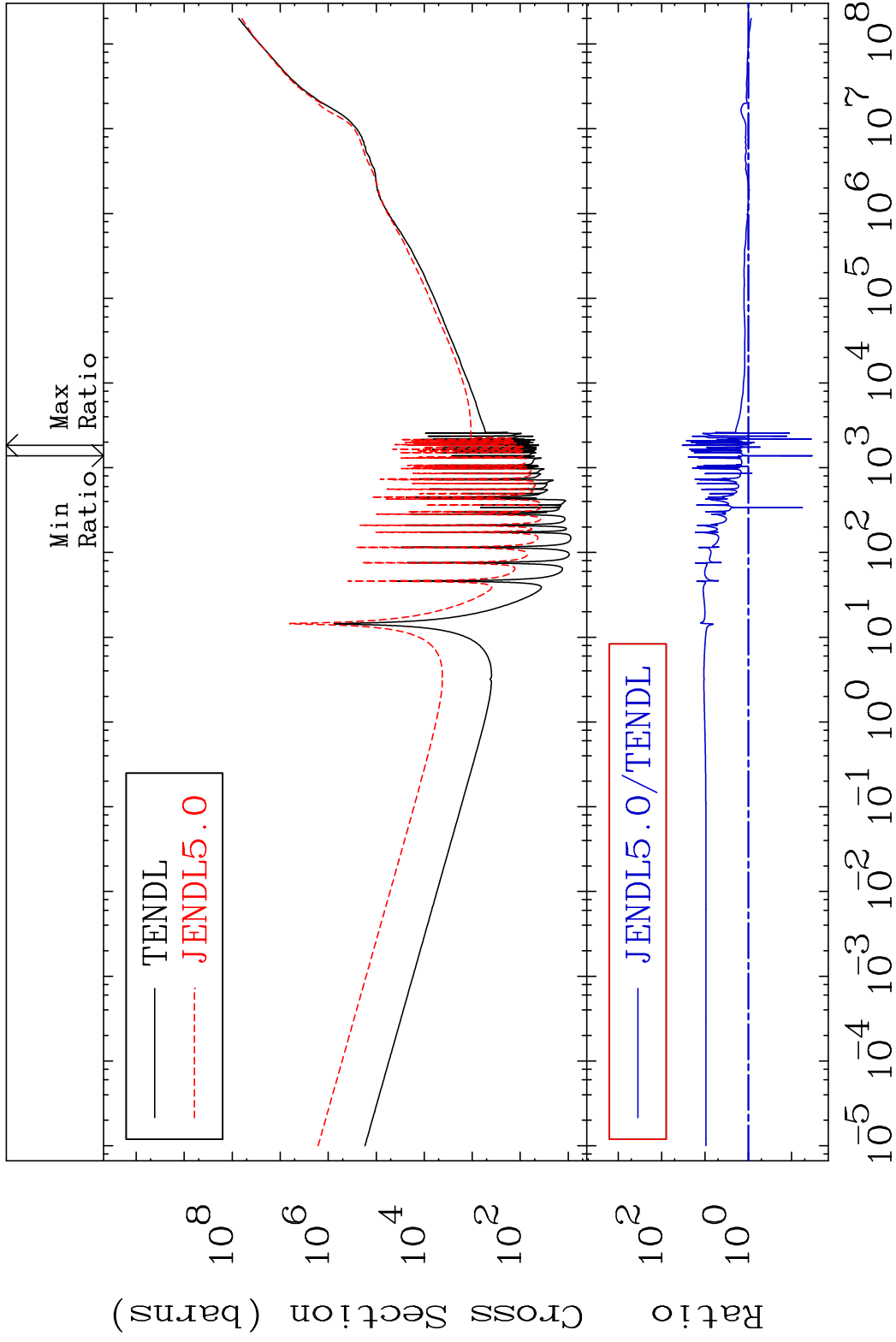
54-Xe-131

MAT 5446 Total photon (eV-barns) 54-Xe-131
 Cross Section -99.99 To 9999. %



37 Incident Energy (eV) 54-Xe-131

MAT 5446 Total kinematic kerma (high limit) 54-Xe-131
 Cross Section -96.70 To 3265. %

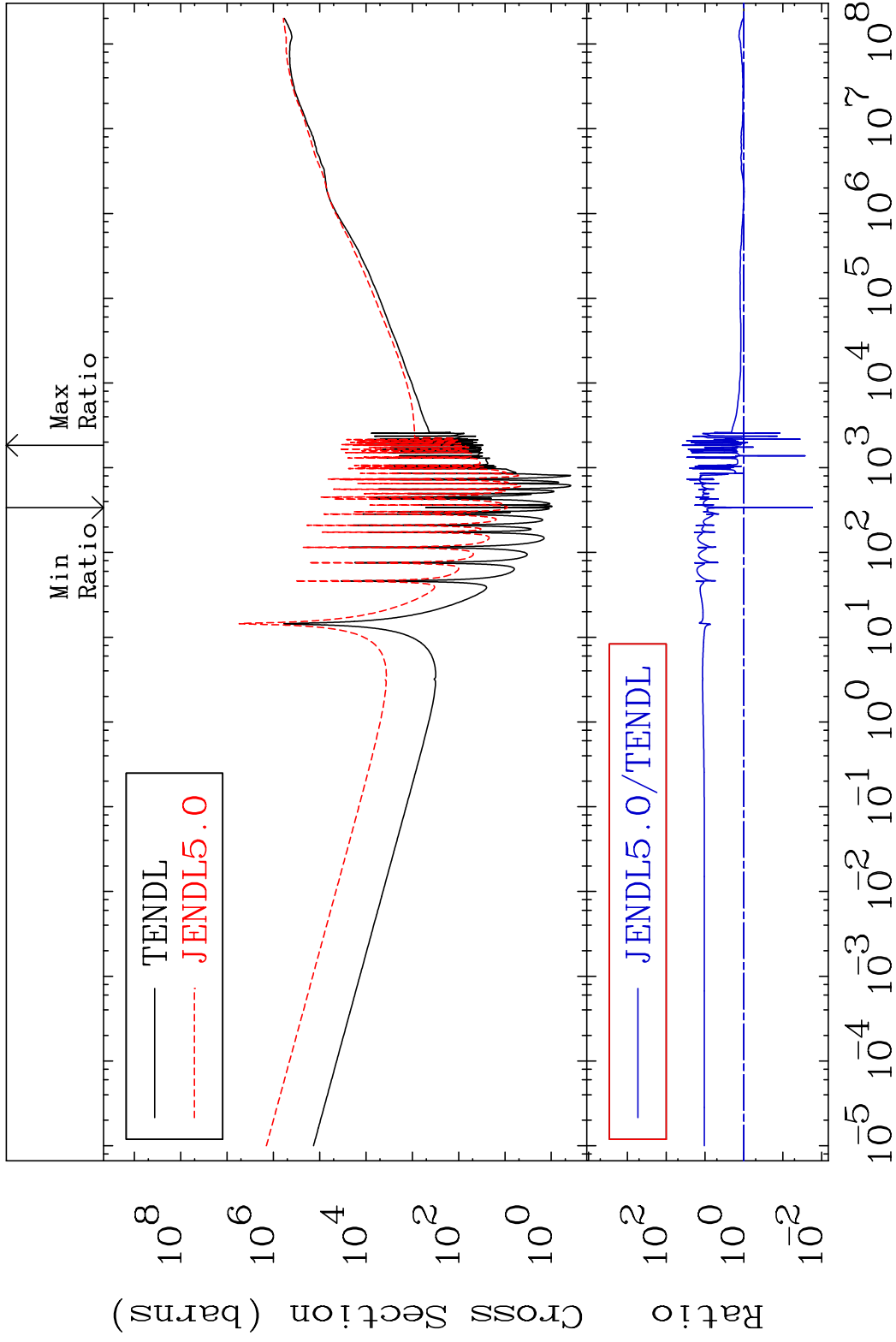


MAT 5446

Dpa total (eV-barns)

54-Xe-131

Cross Section -98.28 To 3794. %



39

Incident Energy (eV)

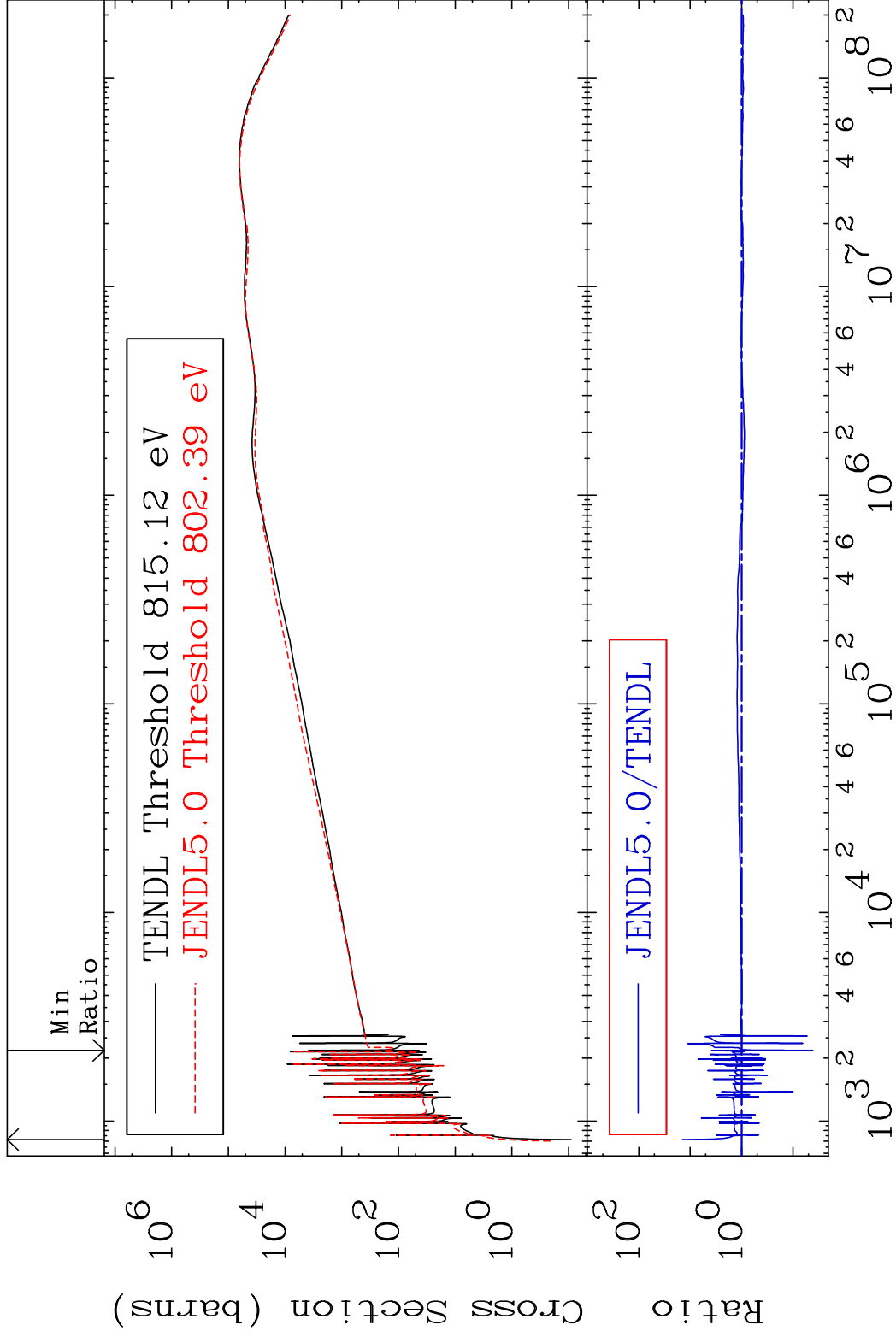
54-Xe-131

MAT 5446

Dpa elastic (mt2)

54-Xe-131

Cross Section -95.83 To 1321. %

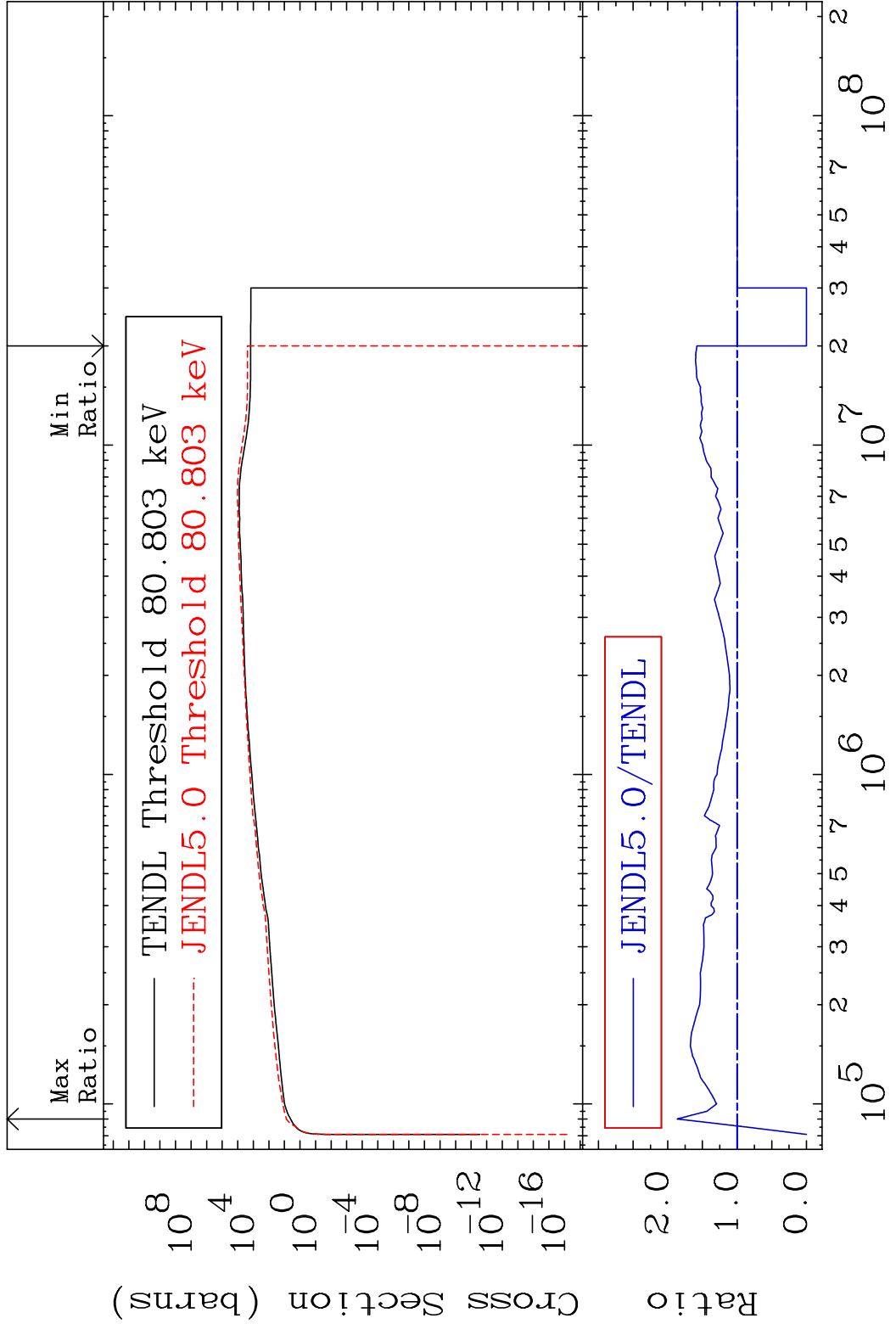


40

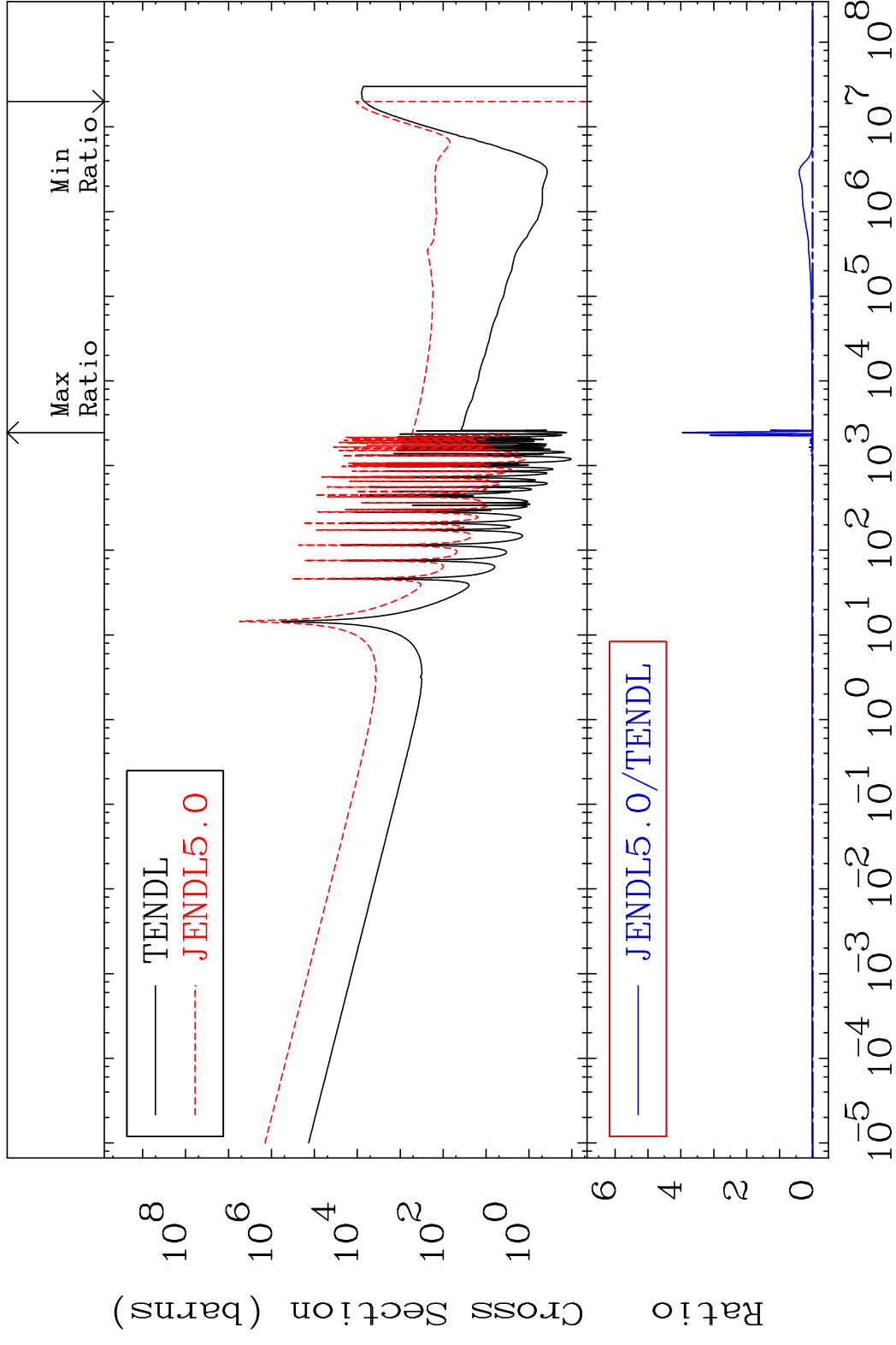
Incident Energy (eV)

54-Xe-131

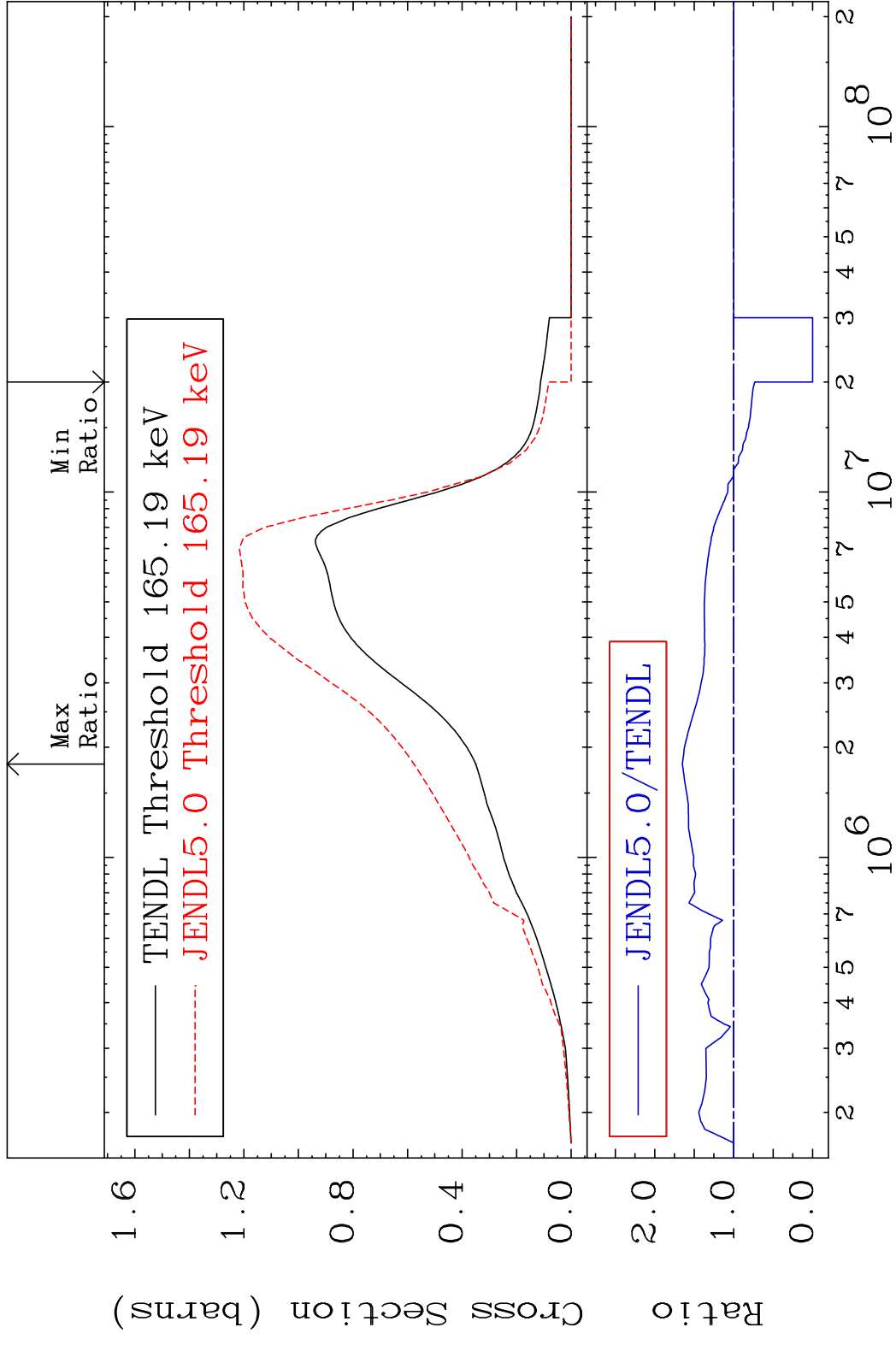
MAT 5446 Dpa inelastic (mt51-91) 54-Xe-131
 Cross Section -100.0 To 86.41 %



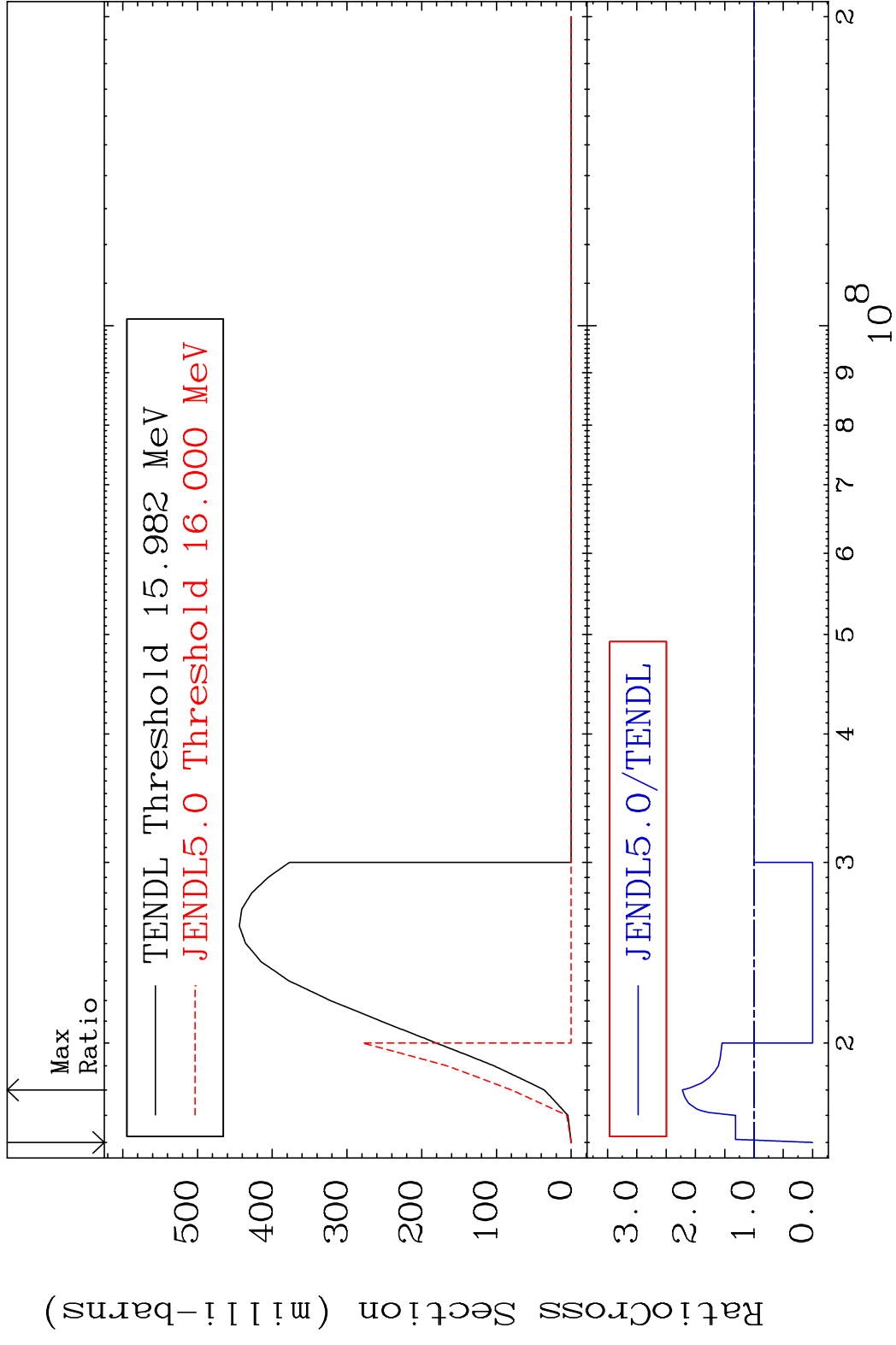
MAT 5446 Dpa disappearance (mt102 -120) 54-Xe-131
 Cross Section -100.0 To 9999. %



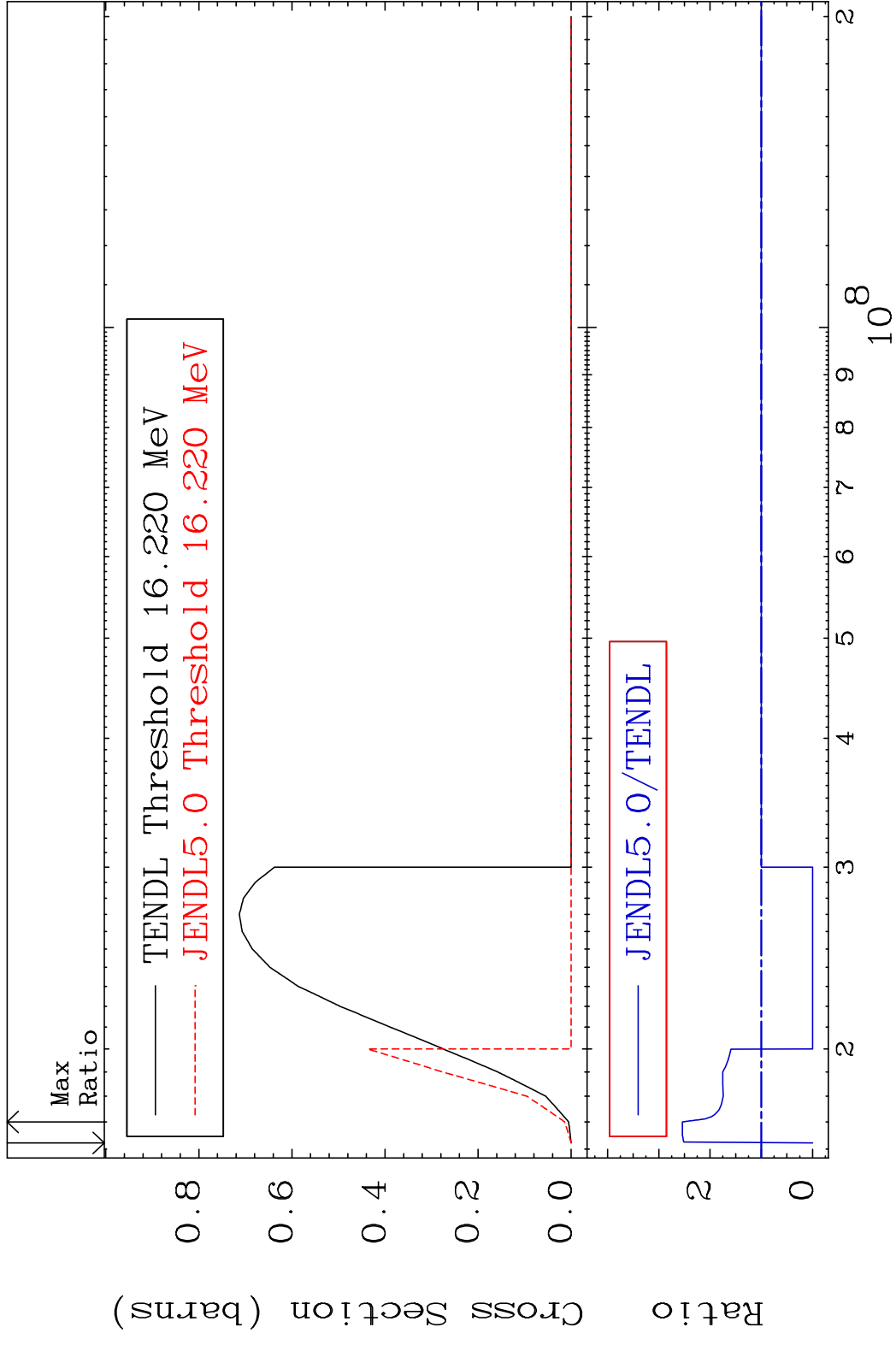
42 Incident Energy (eV) 54-Xe-131



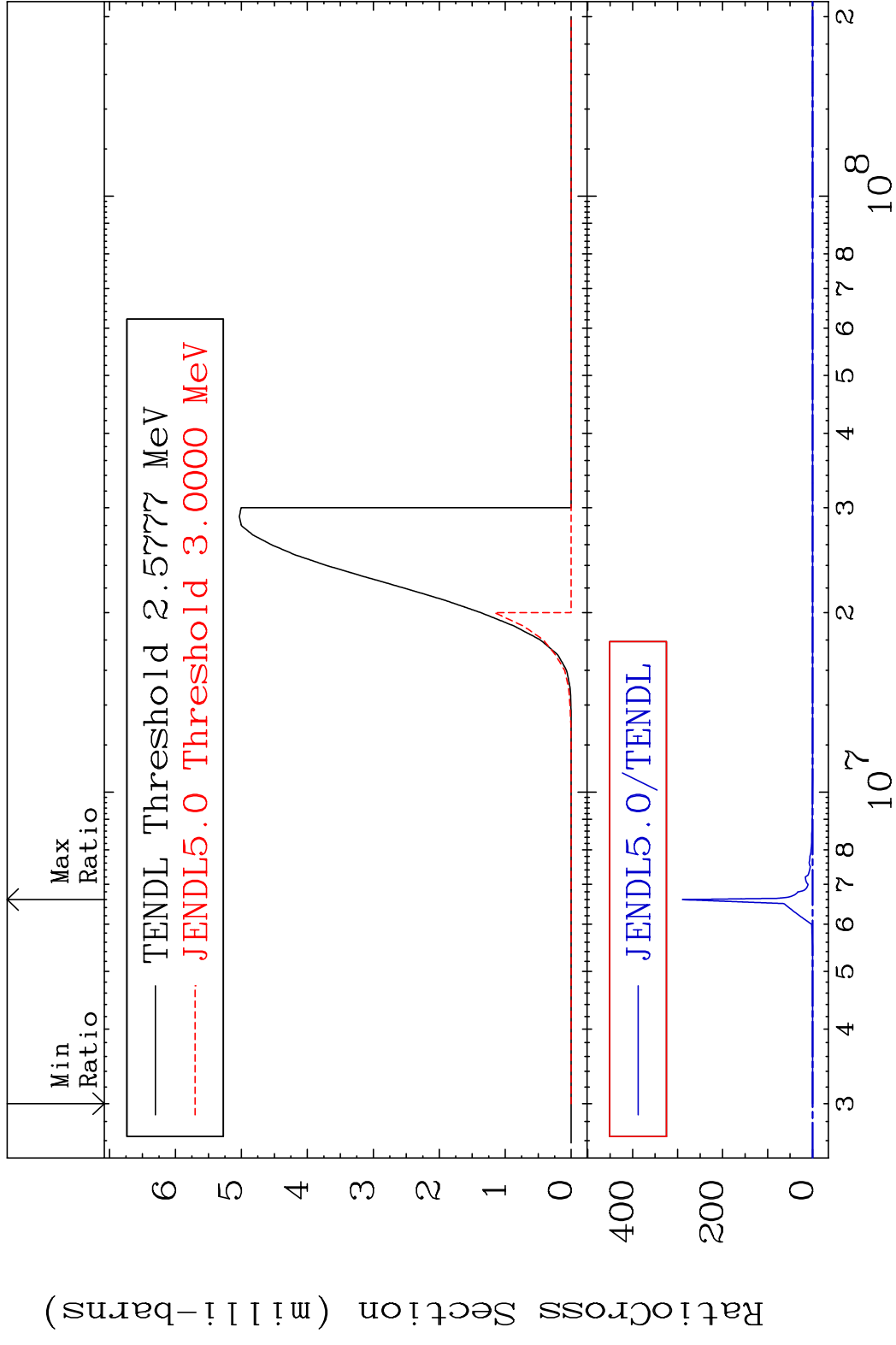
MAT 5446 (n,3n):54-Xe-129g 54-Xe-131
 Radionuclide Production Cross Section 180.0 dth 122.3 %

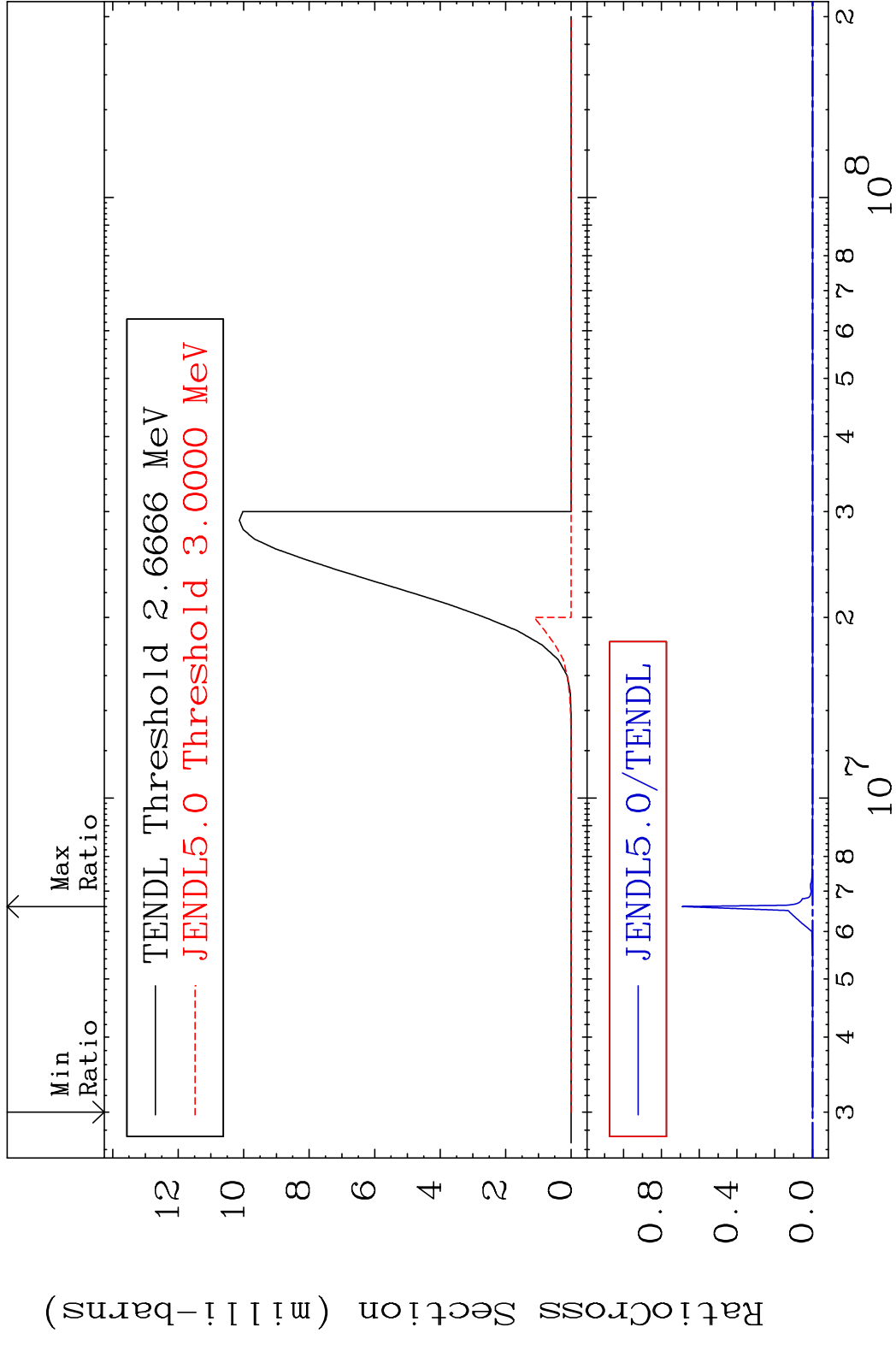


MAT 5446 (n, 3n):54-Xe-129m2 54-Xe-131
 Radionuclide Production Cross Section 154.0 %

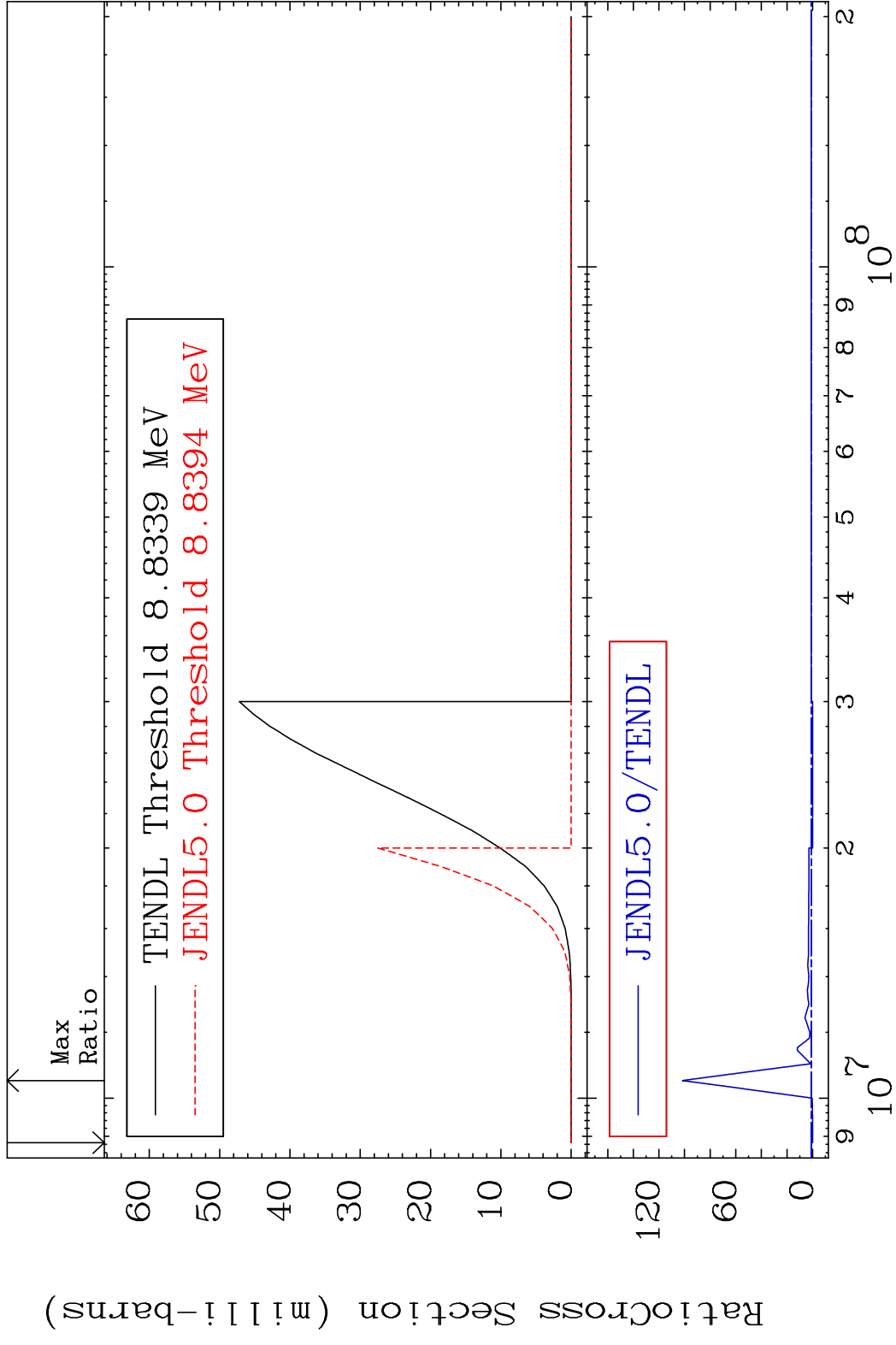


MAT 5446 (n, n') α :52-Te-127g 54-Xe-131
 Radionuclide Production Cross Section 100.00 dth 9999. %



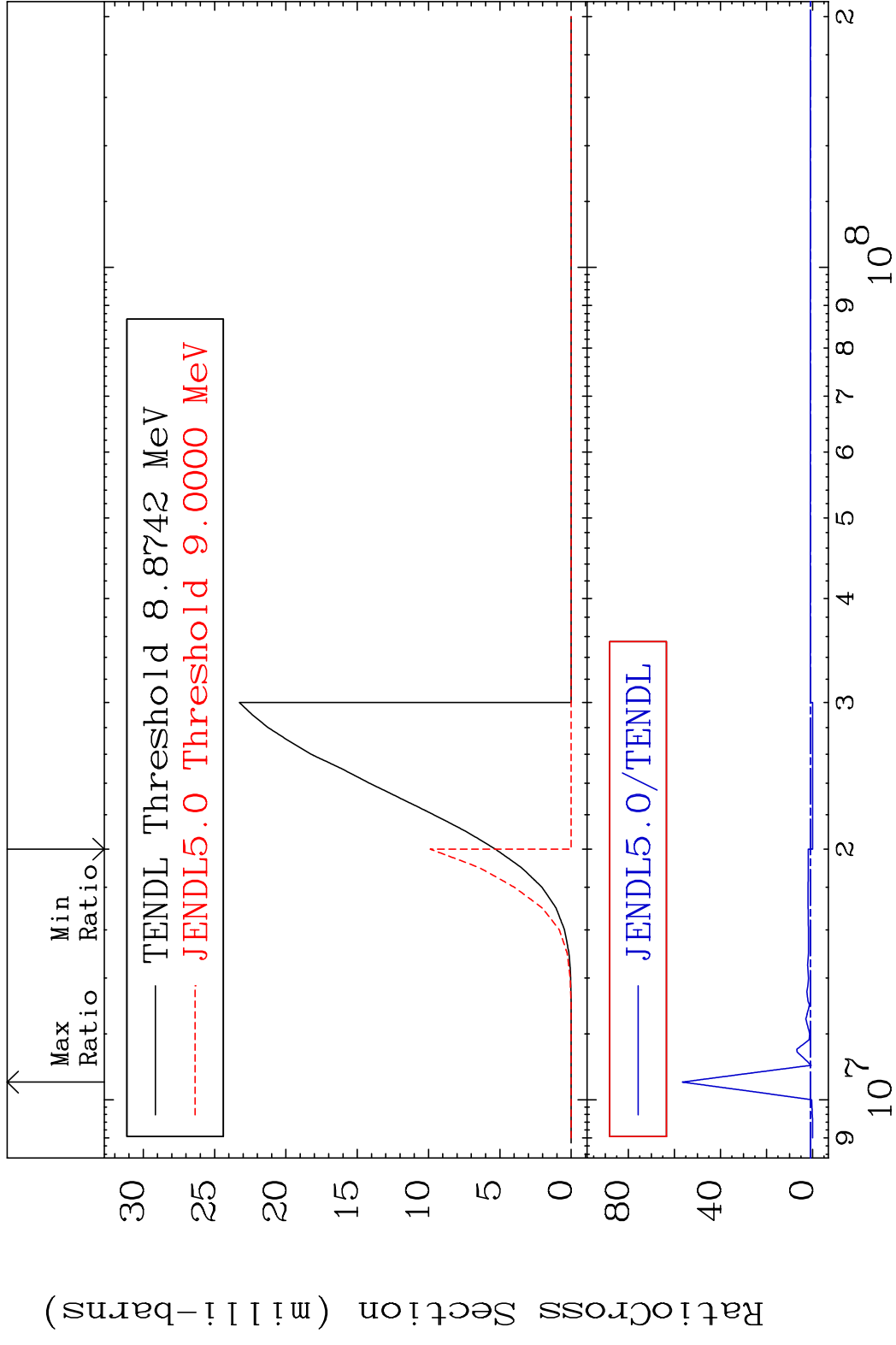


MAT 5446 (n, n') p:53-I -130g 54-Xe-131
 Radionuclide Production Cross Section 100.00 dth 9999. %

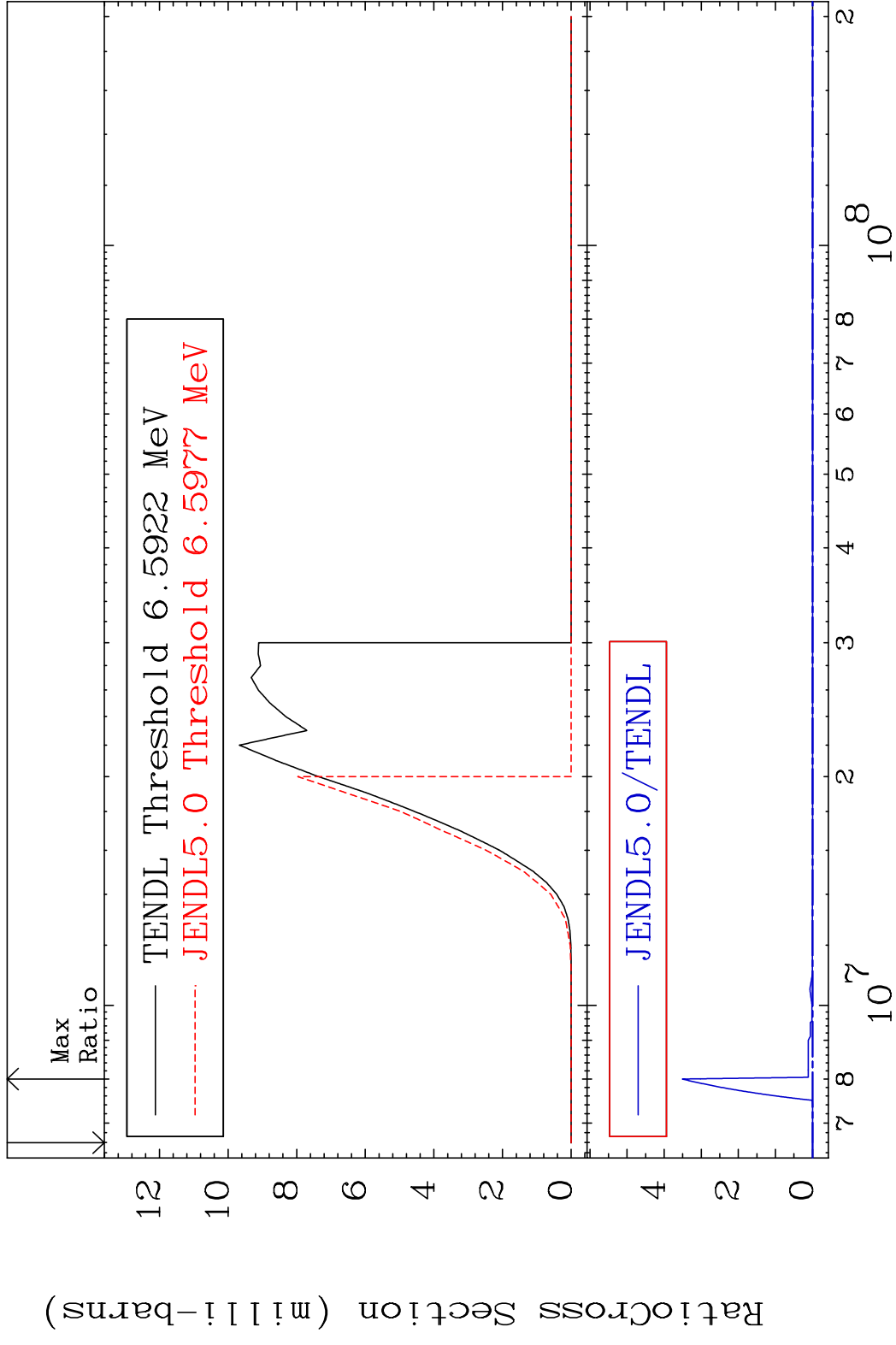


48 Incident Energy (eV) 54-Xe-131

MAT 5446 (n, n') p:53-I -130m1 54-Xe-131
 Radionuclide Production Cross Section to 5552. %



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



MAT 5446 (n, d):53-I -130m1 54-Xe-131
 Radionuclide Production Cross Section Ratio 9999. %

