

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

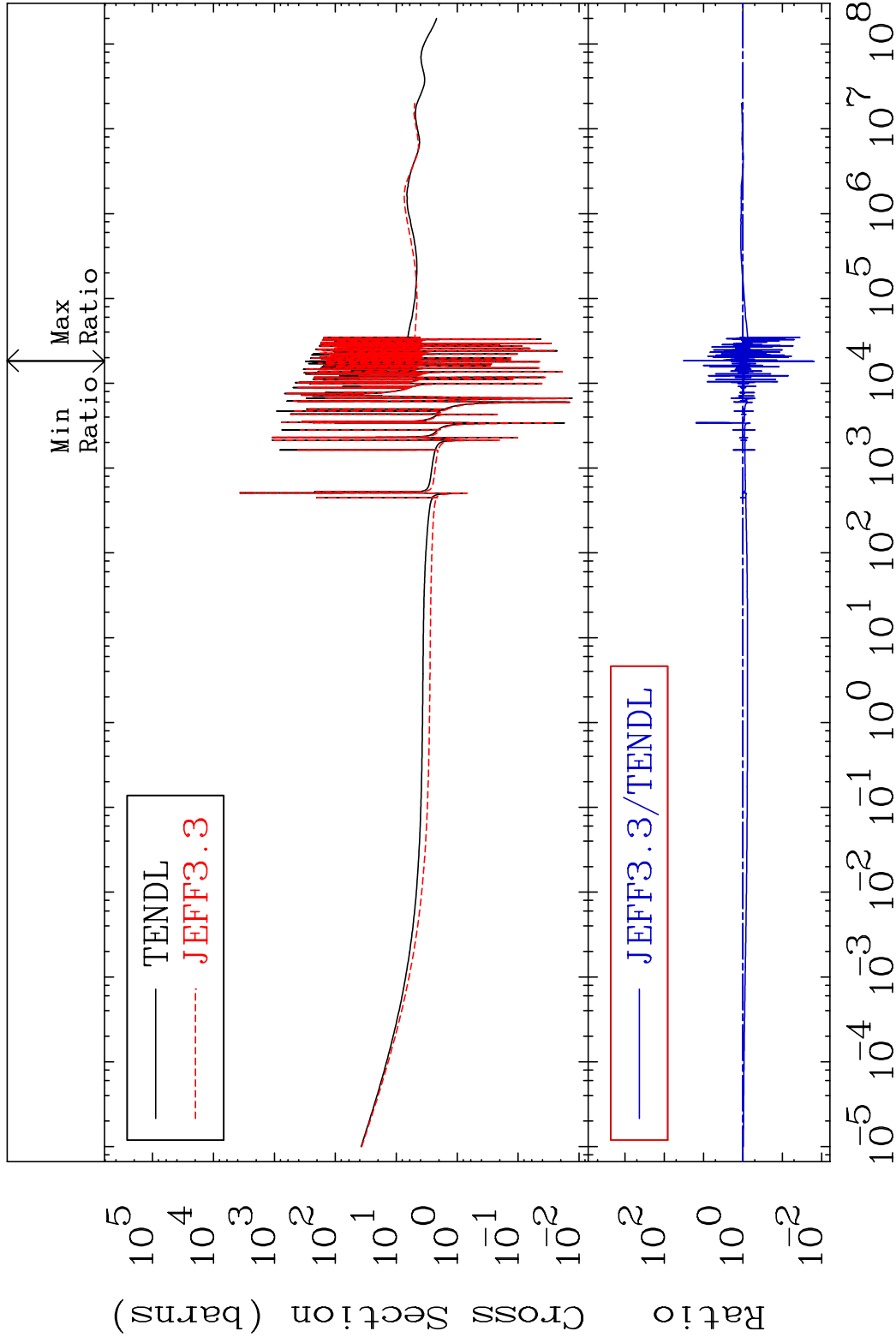
Press Mouse Button to Start

MAT 5643

Total

56-Ba-136

Cross Section -98.45 To 3119. %



1

Incident Energy (eV)

56-Ba-136

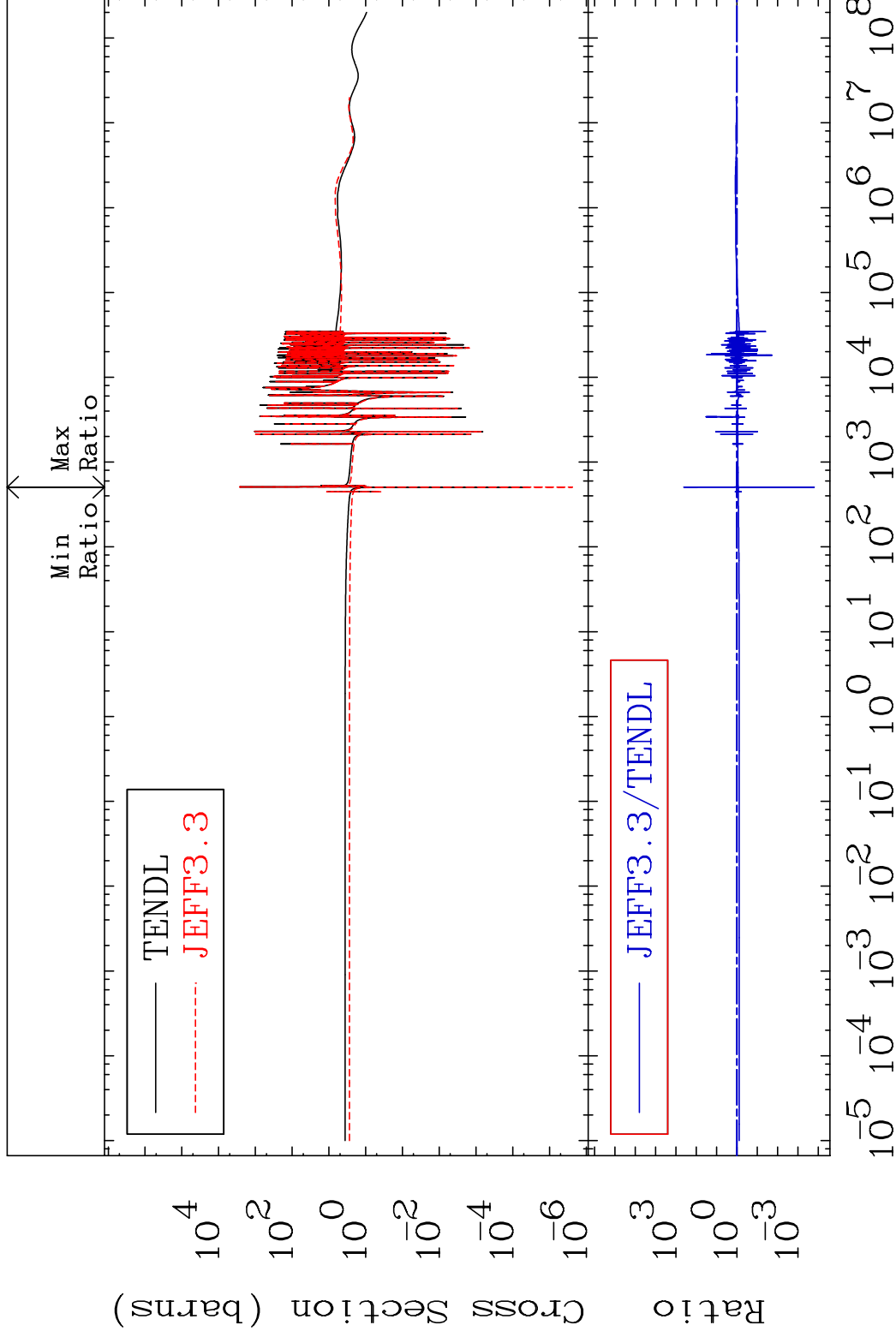
MAT 5643

Elastic

56-Ba-136

Cross Section

-99.98 To 9999. %

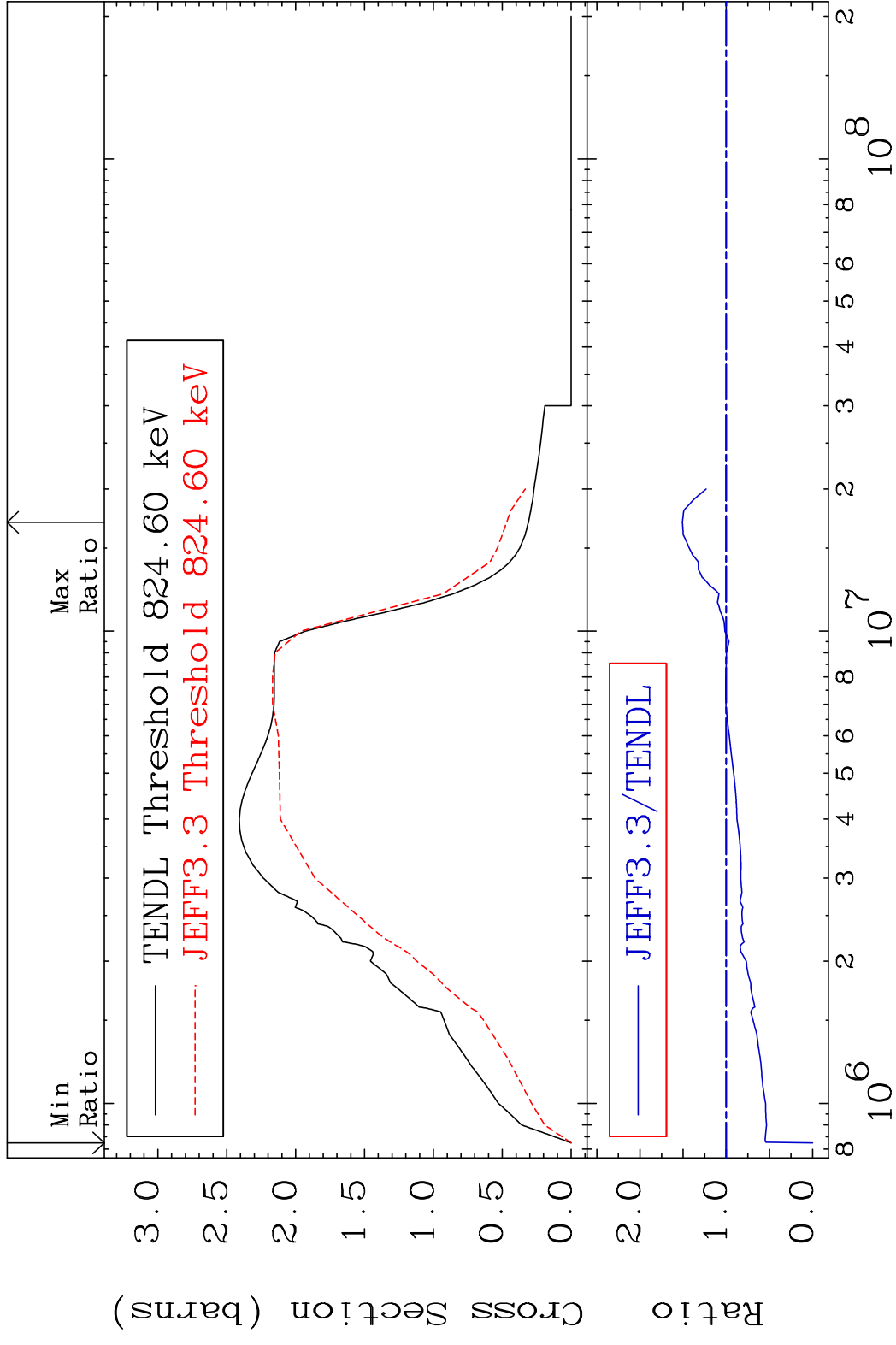


2

Incident Energy (eV)

56-Ba-136

MAT 5643 Inelastic Cross Section -100.0 To 50.88 % 56-Ba-136



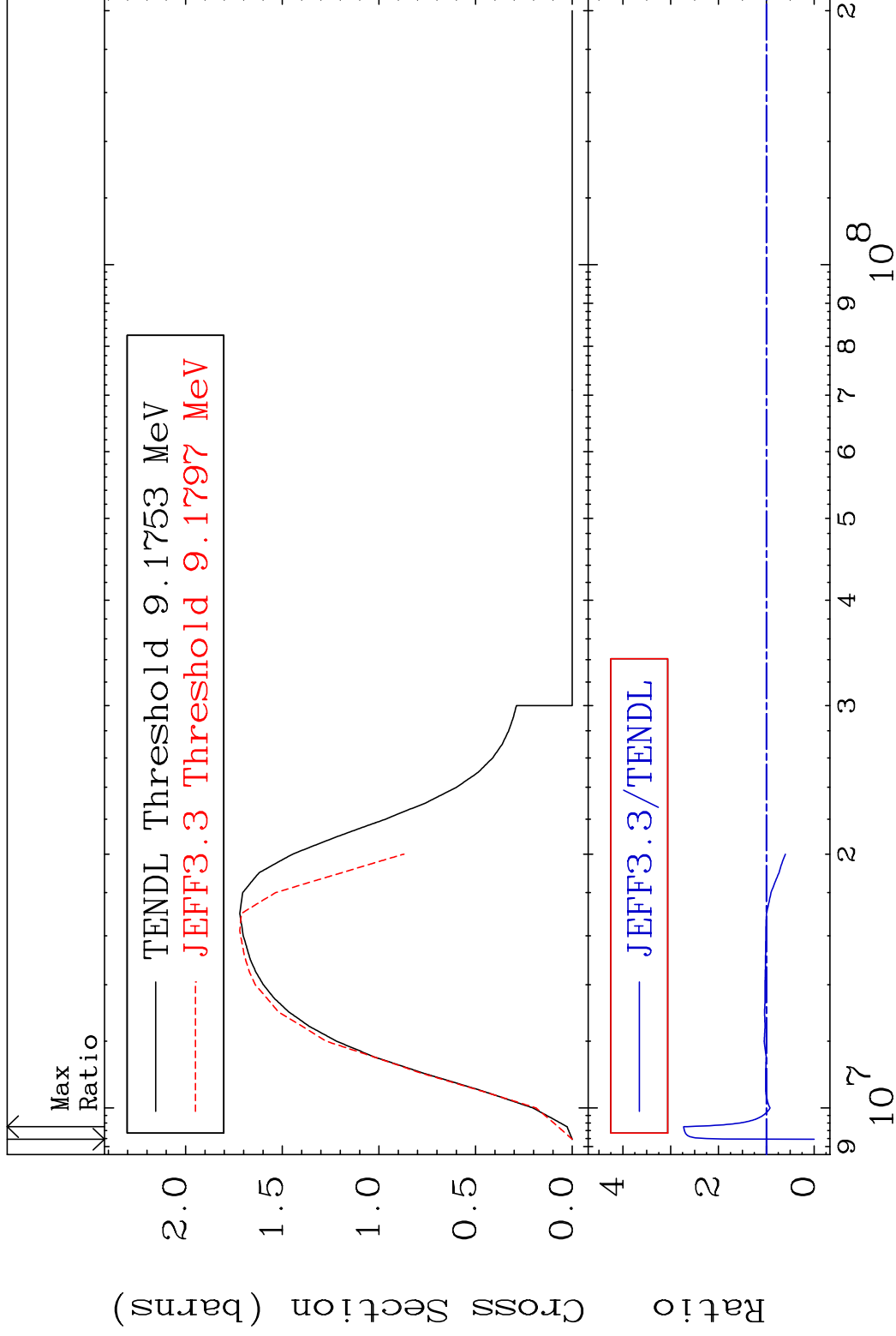
3 Incident Energy (eV) 56-Ba-136

MAT 5643

(n,2n)

56-Ba-136

Cross Section -100.0 To 172.9 %



4

Incident Energy (eV)

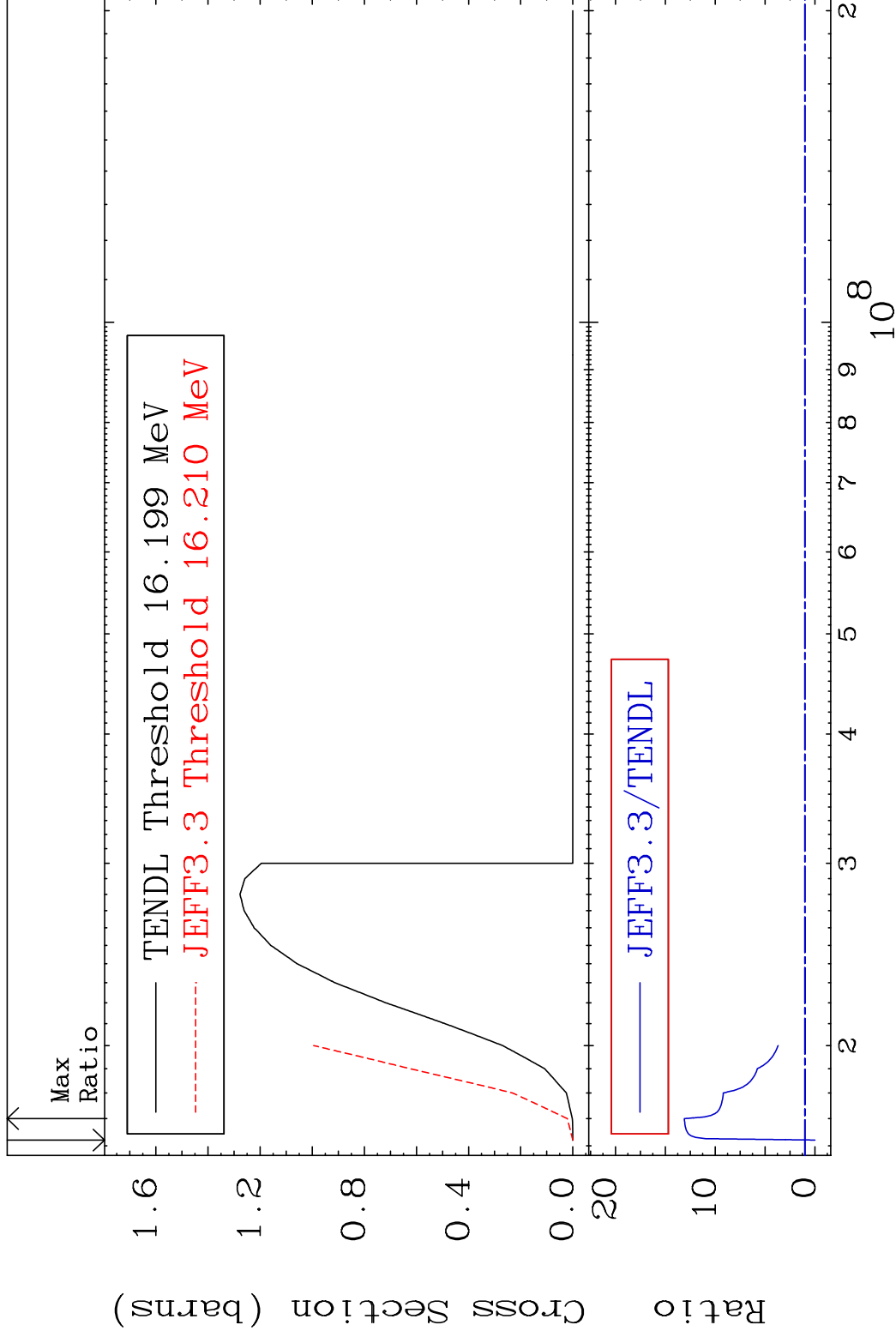
56-Ba-136

MAT 5643

(n,3n)

56-Ba-136

Cross Section -100.0 To 1209. %

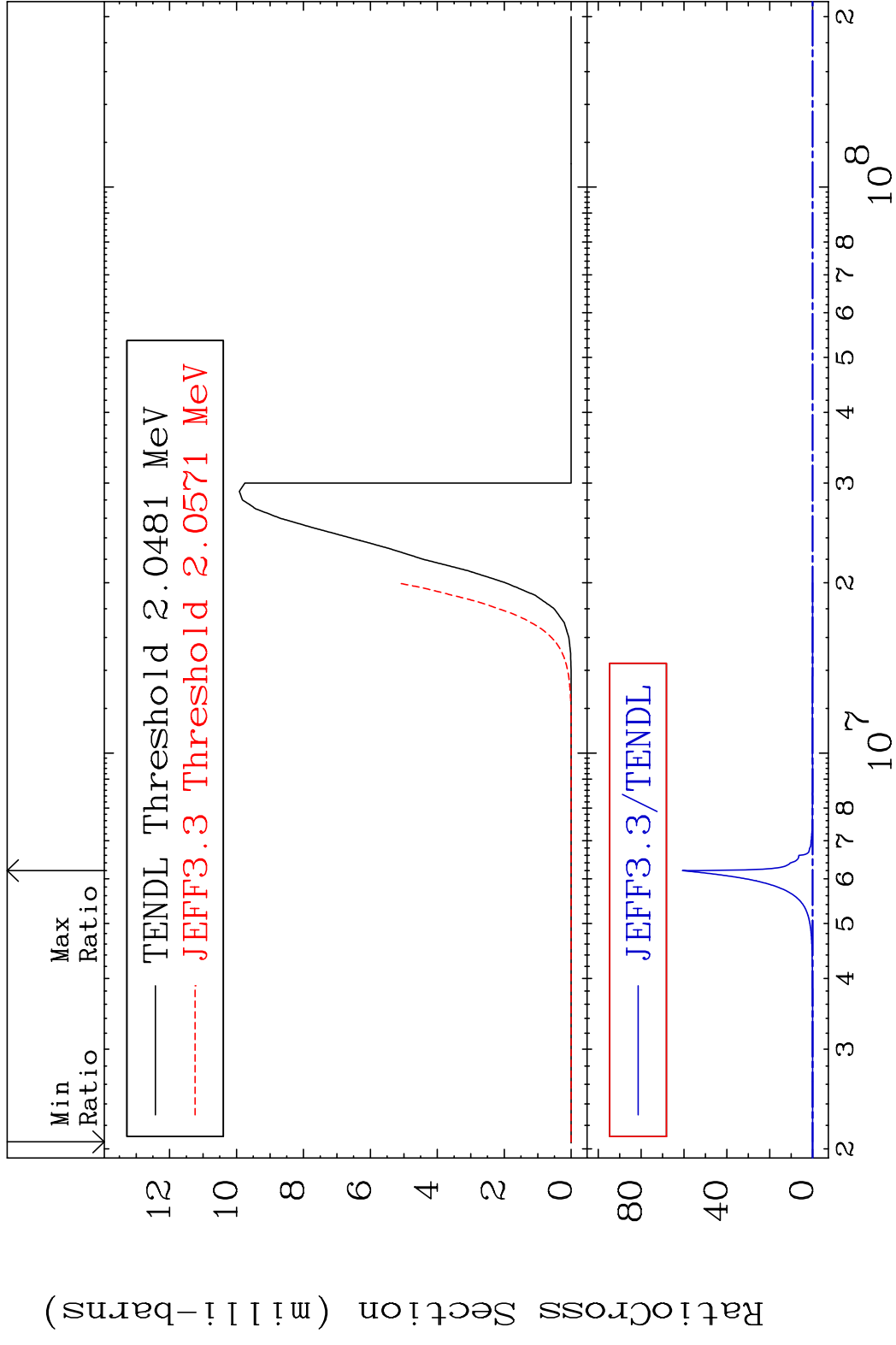


5

Incident Energy (eV)

56-Ba-136

MAT 5643 (n, n') α 56-Ba-136
 Cross Section -100.0 To 9999. %



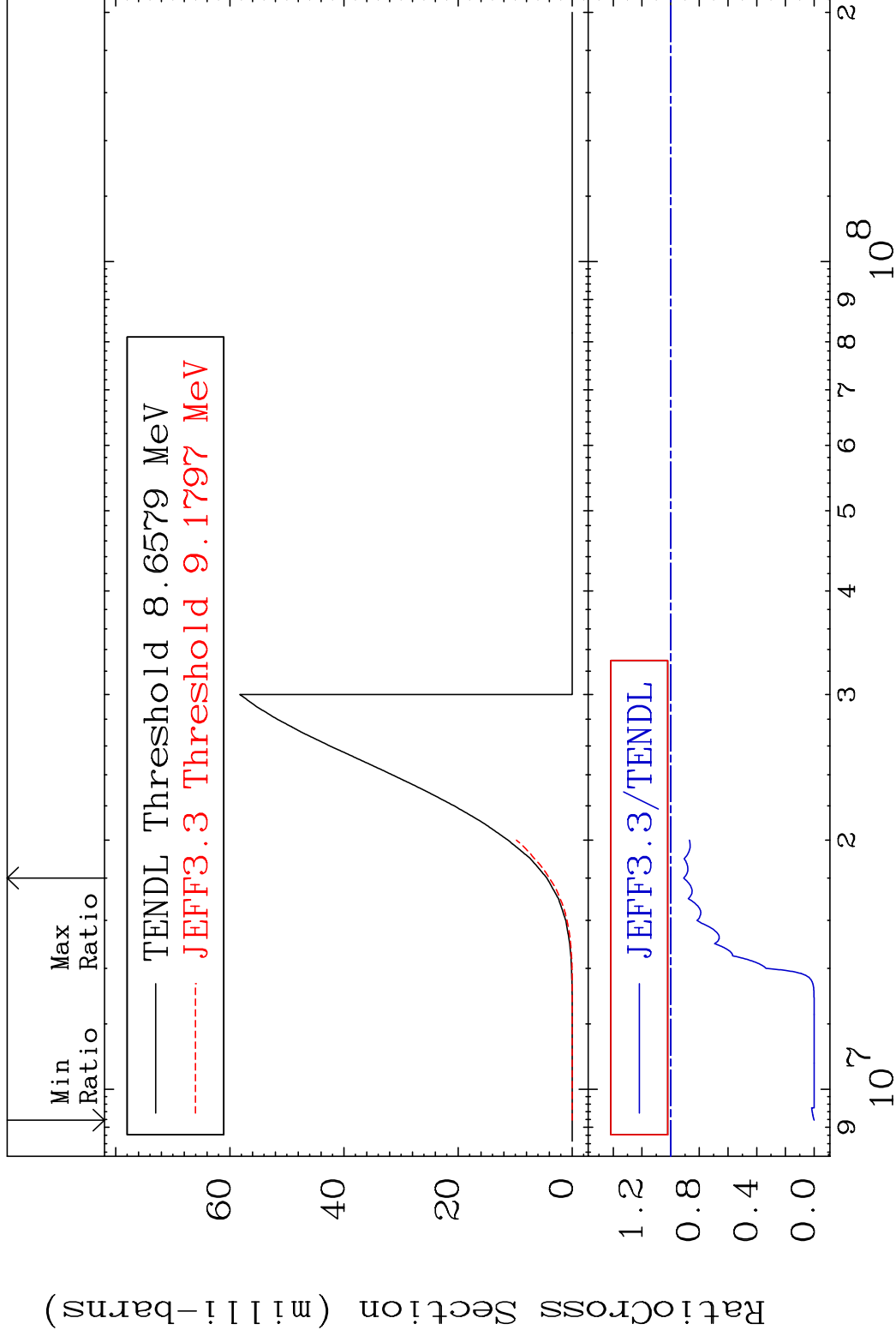
6 Incident Energy (eV) 56-Ba-136

MAT 5643

(n, n') p

56-Ba-136

Cross Section -100.0 To -9.087%

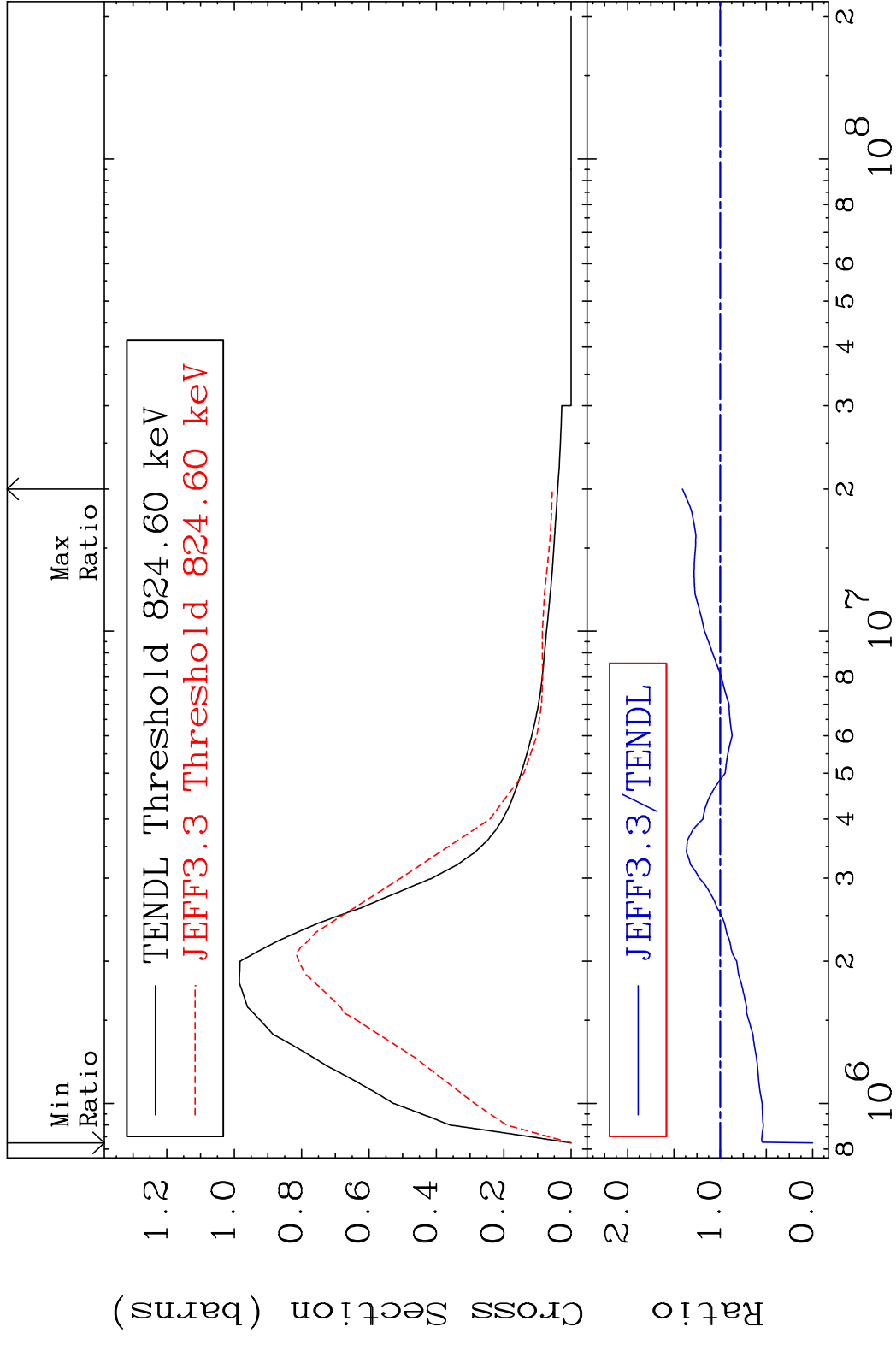


7

Incident Energy (eV)

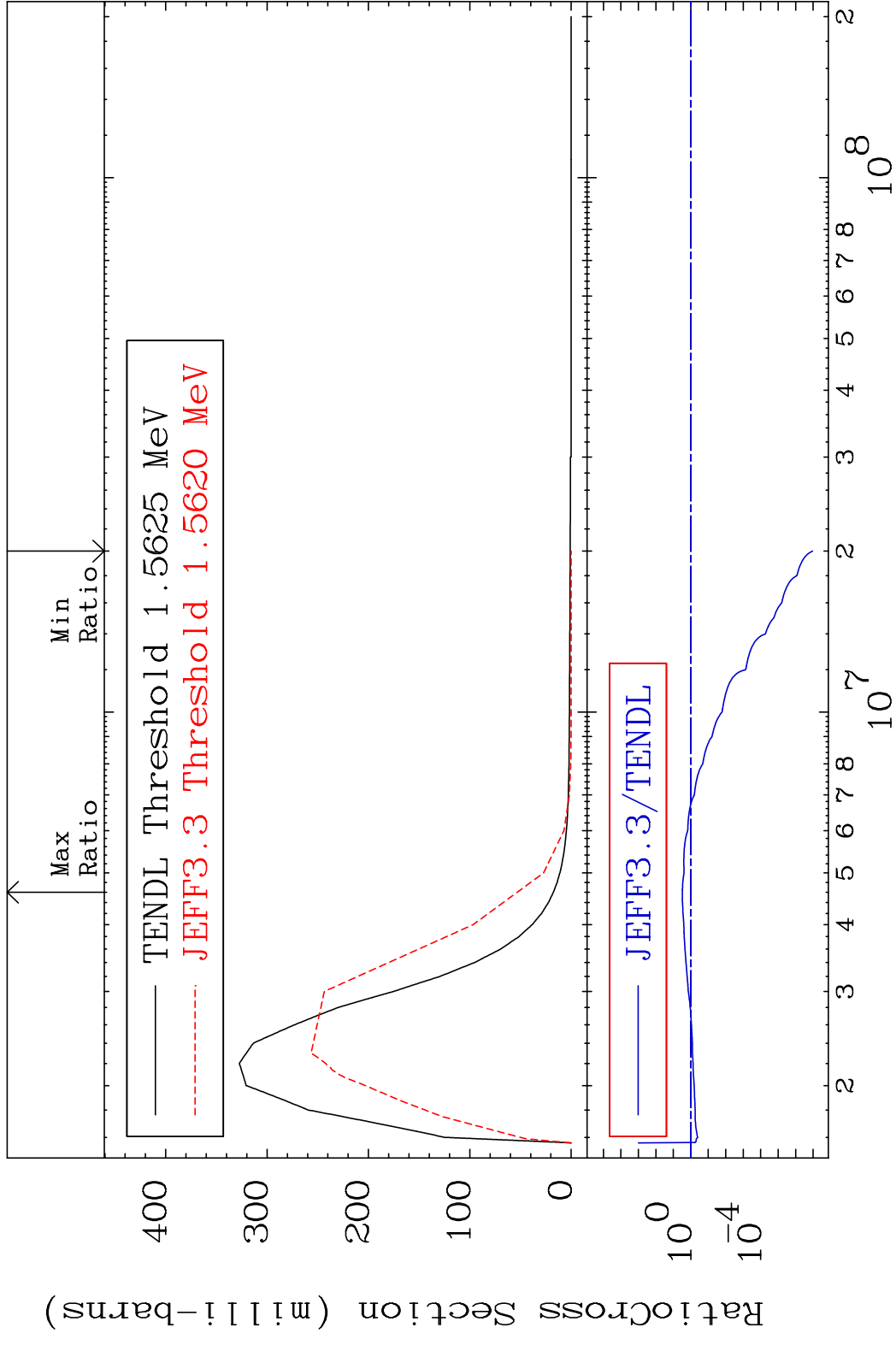
56-Ba-136

MAT 5643 MT= 51 (n, n') Level 56-Ba-136
 Cross Section -100.0 To 40.89 %

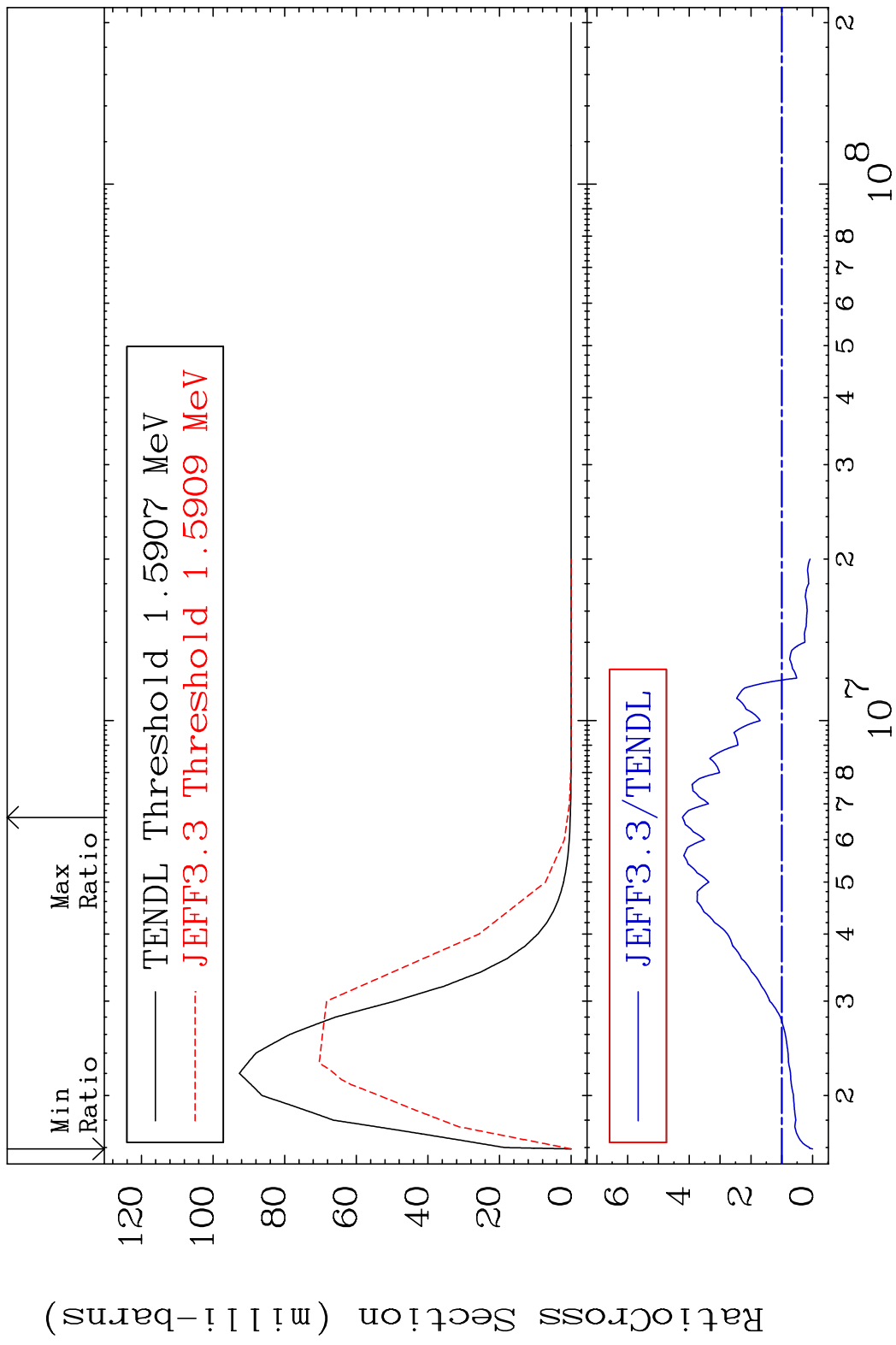


8 Incident Energy (eV) 56-Ba-136

MAT 5643 MT= 52 (n, n') Level 56-Ba-136
 Cross Section -100.0 To 203.5 %

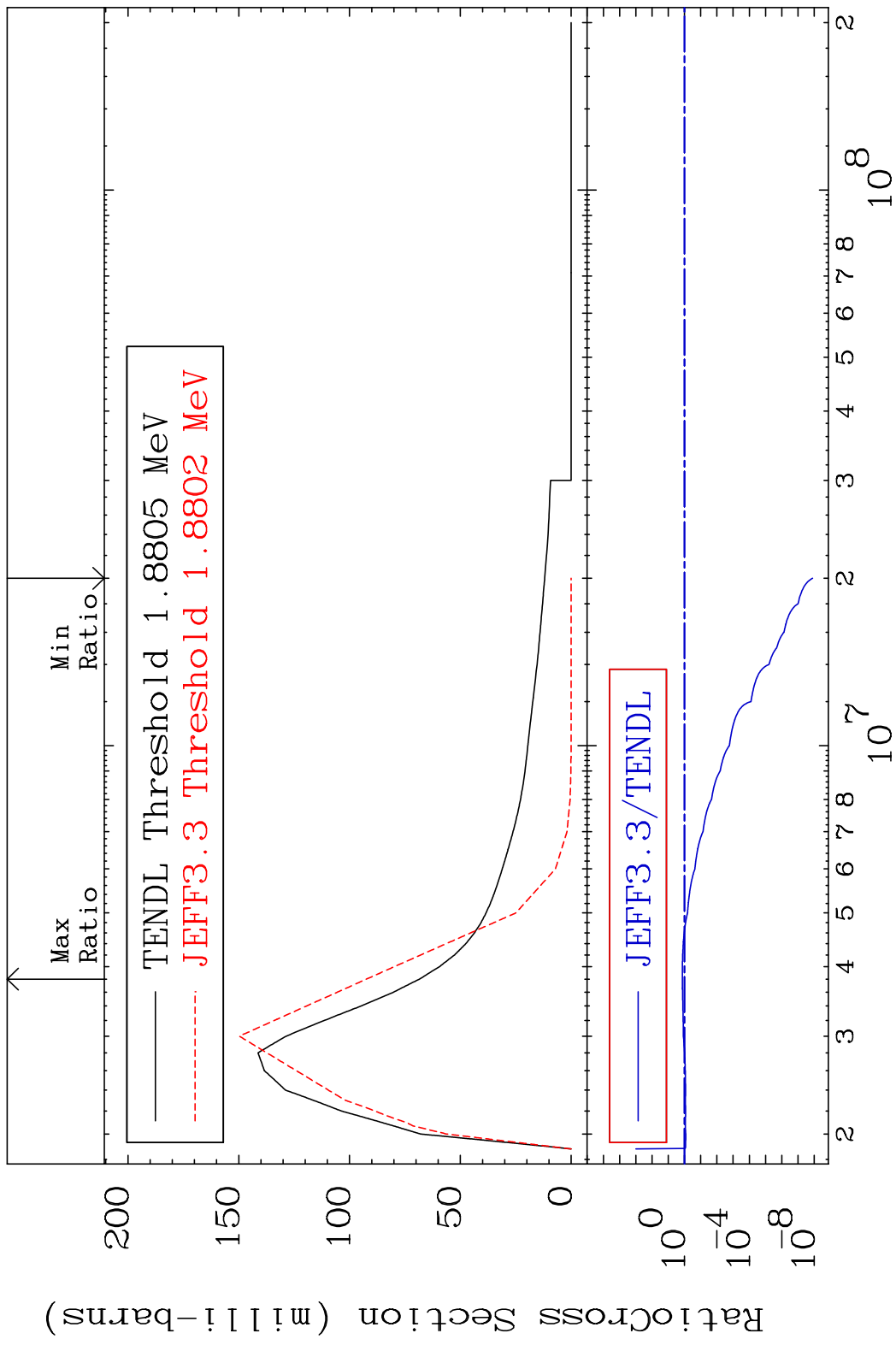


MAT 5643 MT= 53 (n, n') Level 56-Ba-136
 Cross Section -100.0 To 322.5 %

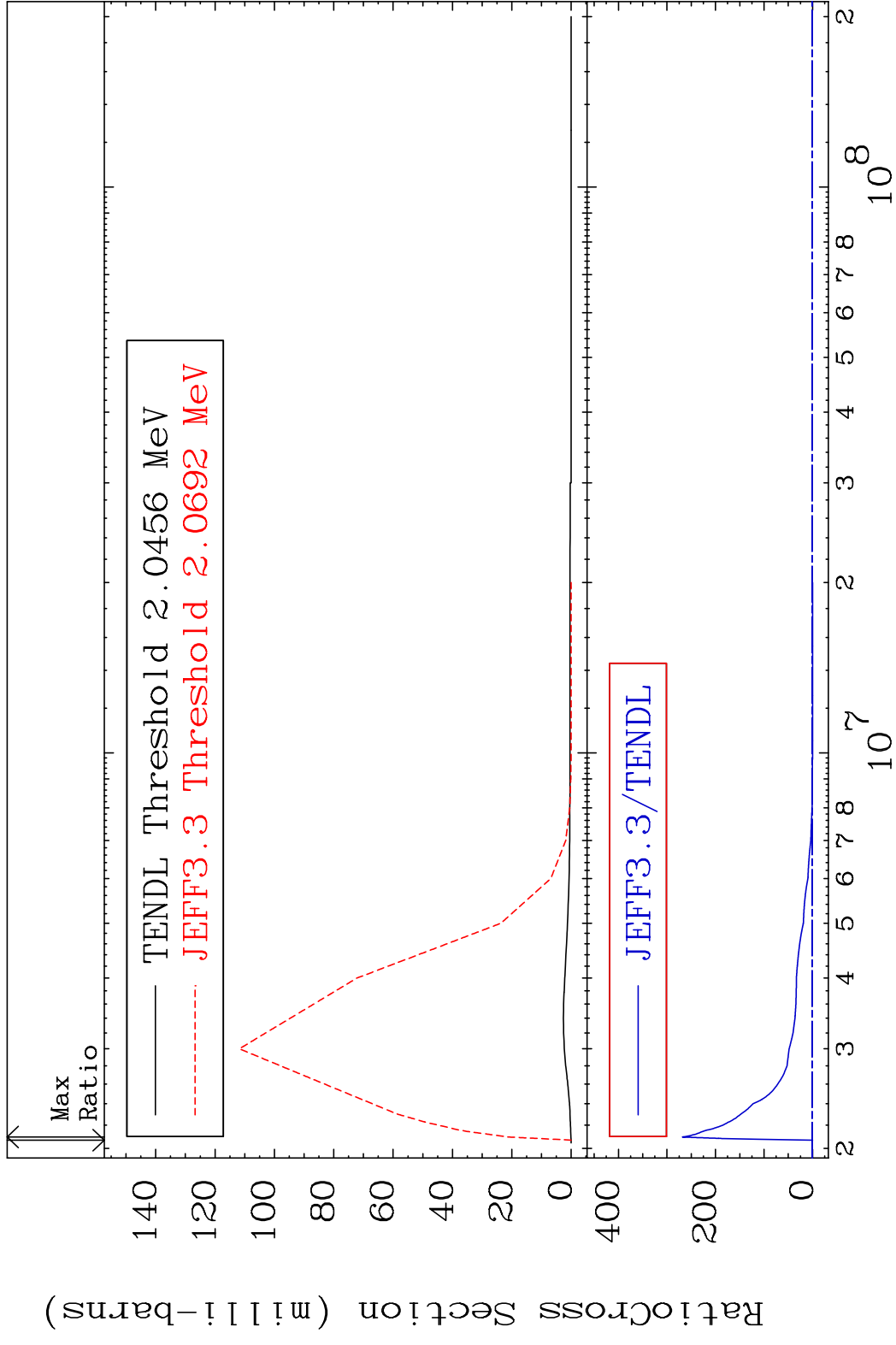


10 Incident Energy (eV) 56-Ba-136

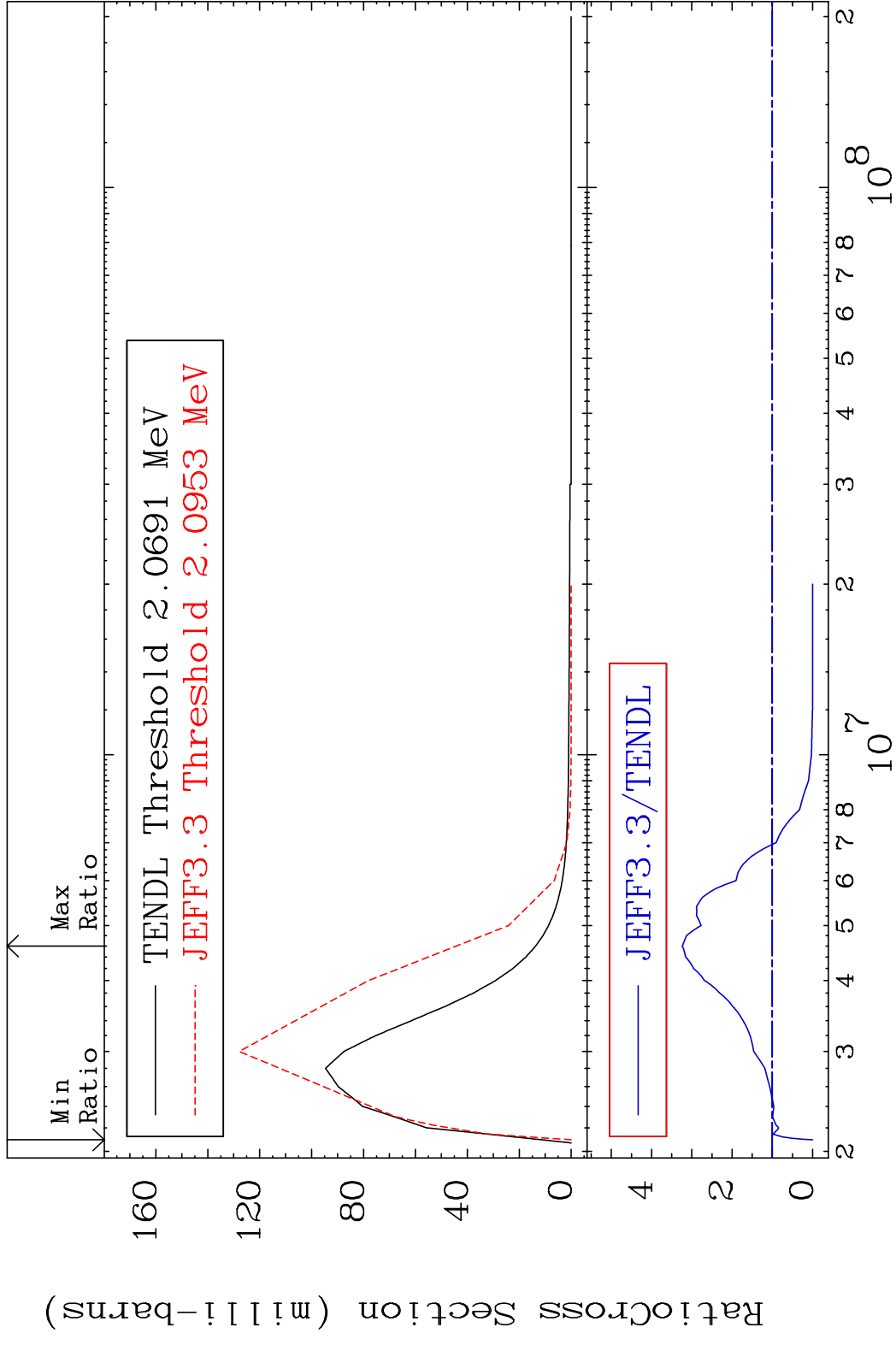
MAT 5643 MT= 54 (n, n') Level 56-Ba-136
 Cross Section -100.0 To 34.94 %



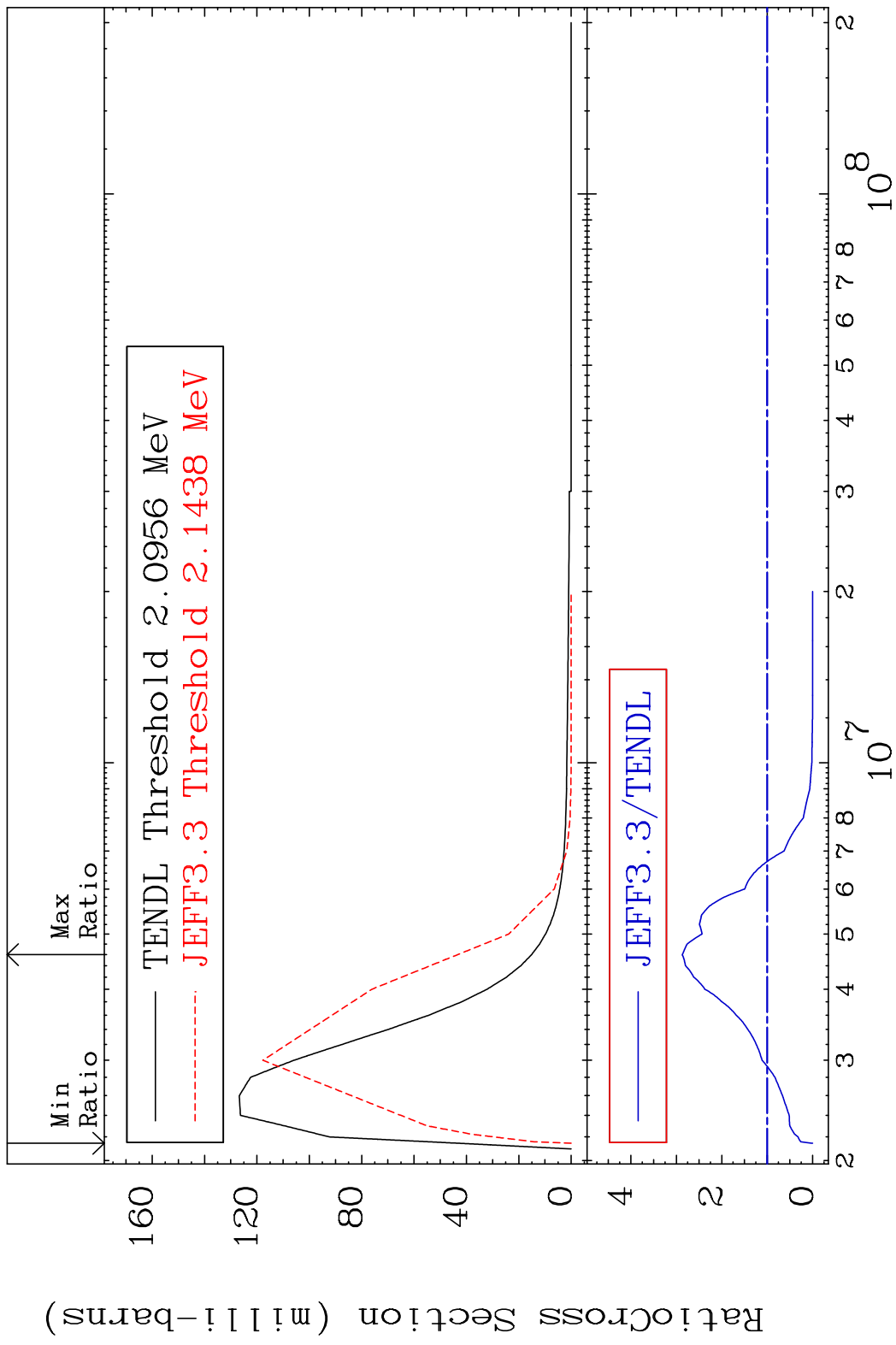
MAT 5643 MT= 55 (n, n') Level 56-Ba-136
 Cross Section -100.0 To 9999. %



MAT 5643 MT= 56 (n, n') Level 56-Ba-136
 Cross Section -100.0 To 223.5 %

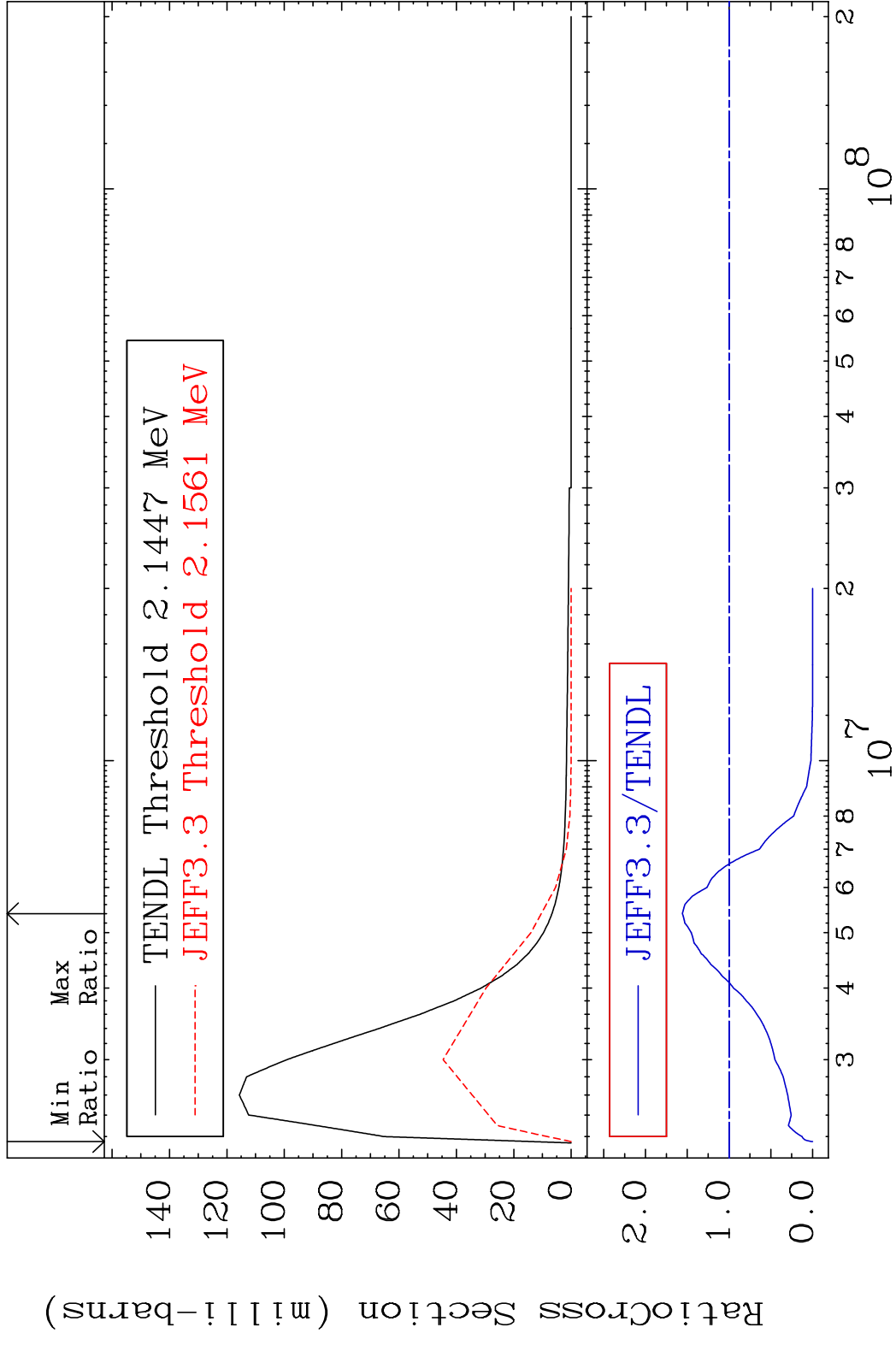


MAT 5643 MT= 57 (n, n') Level 56-Ba-136
 Cross Section -100.0 To 186.8 %

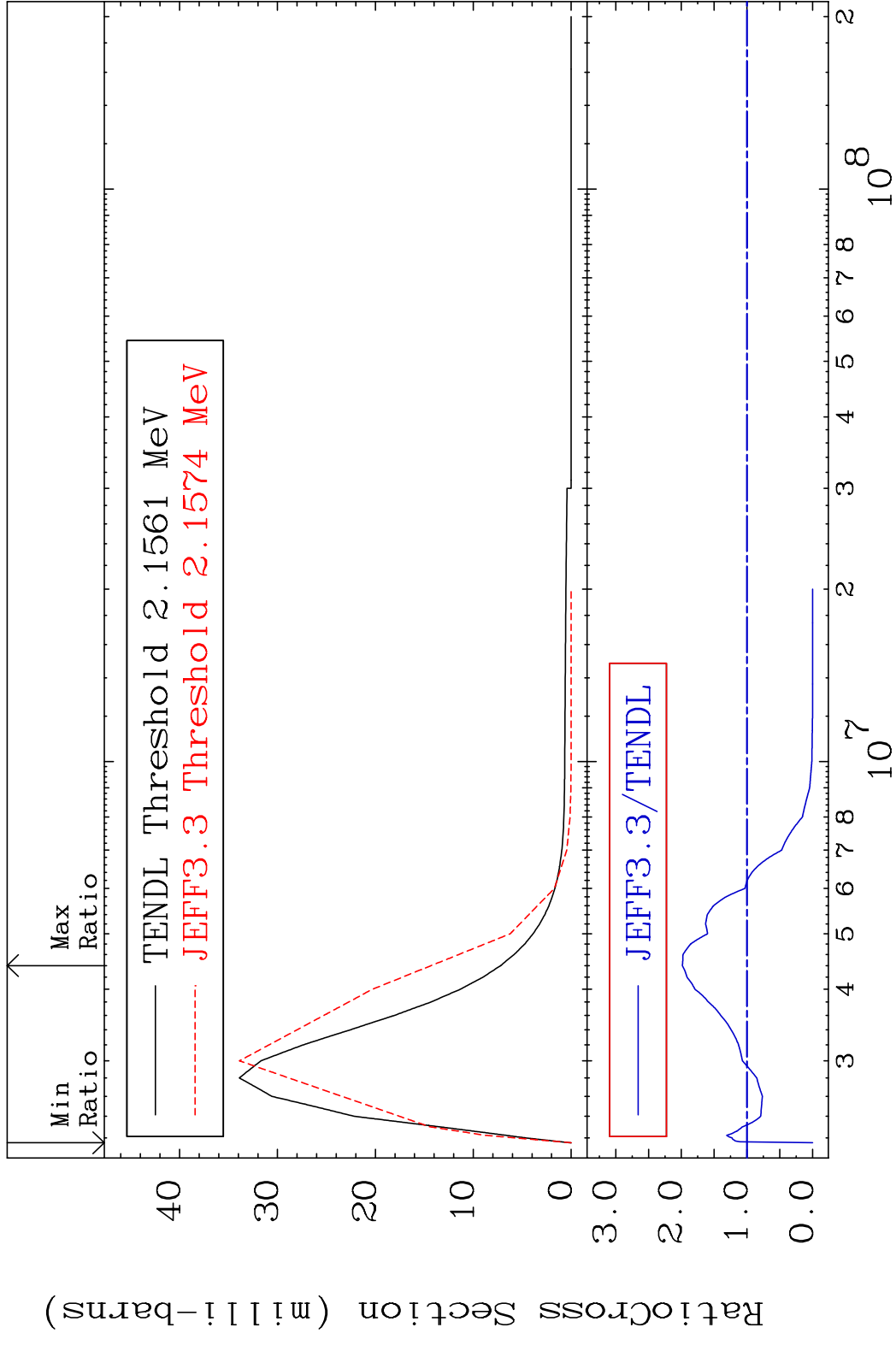


14 Incident Energy (eV) 56-Ba-136

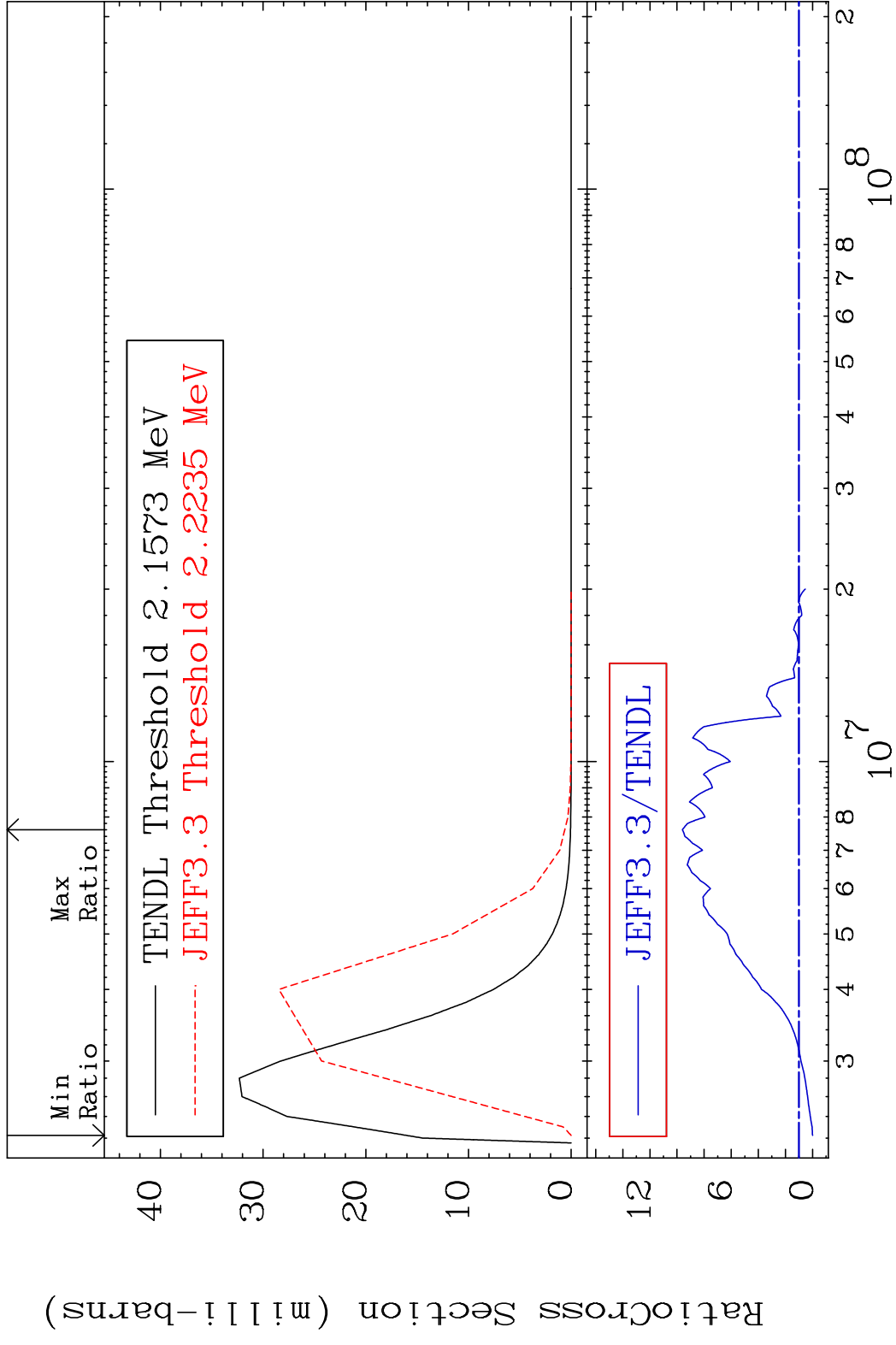
MAT 5643 MT= 58 (n,n') Level 56-Ba-136
 Cross Section -100.0 To 55.91 %



MAT 5643 MT= 59 (n, n') Level 56-Ba-136
 Cross Section -100.0 To 98.47 %



MAT 5643 MT= 60 (n, n') Level 56-Ba-136
 Cross Section -100.0 To 860.6 %



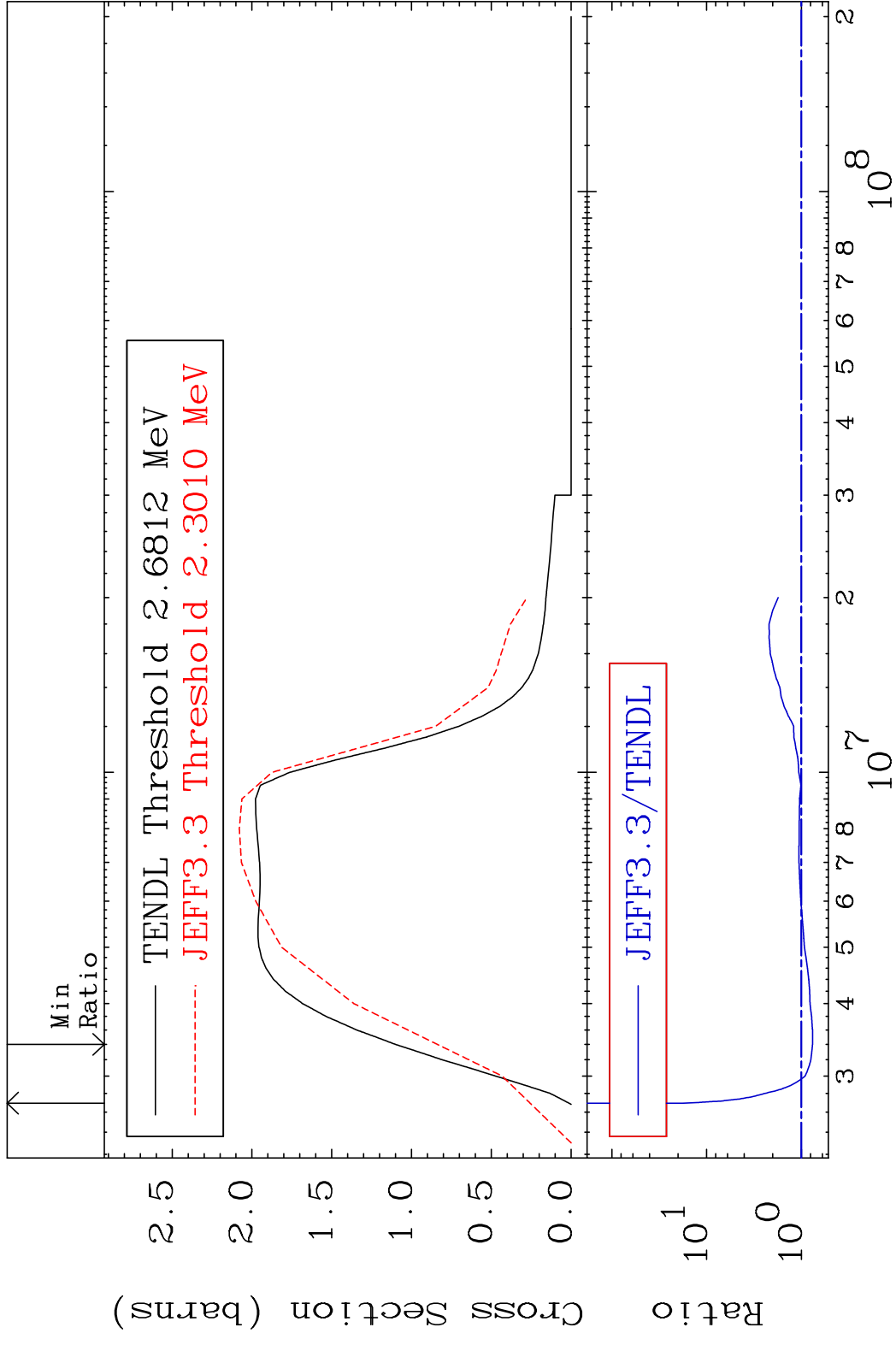
17 Incident Energy (eV) 56-Ba-136

MAT 5643

(n, n') Continuum

56-Ba-136

Cross Section -23.90 To 1701. %

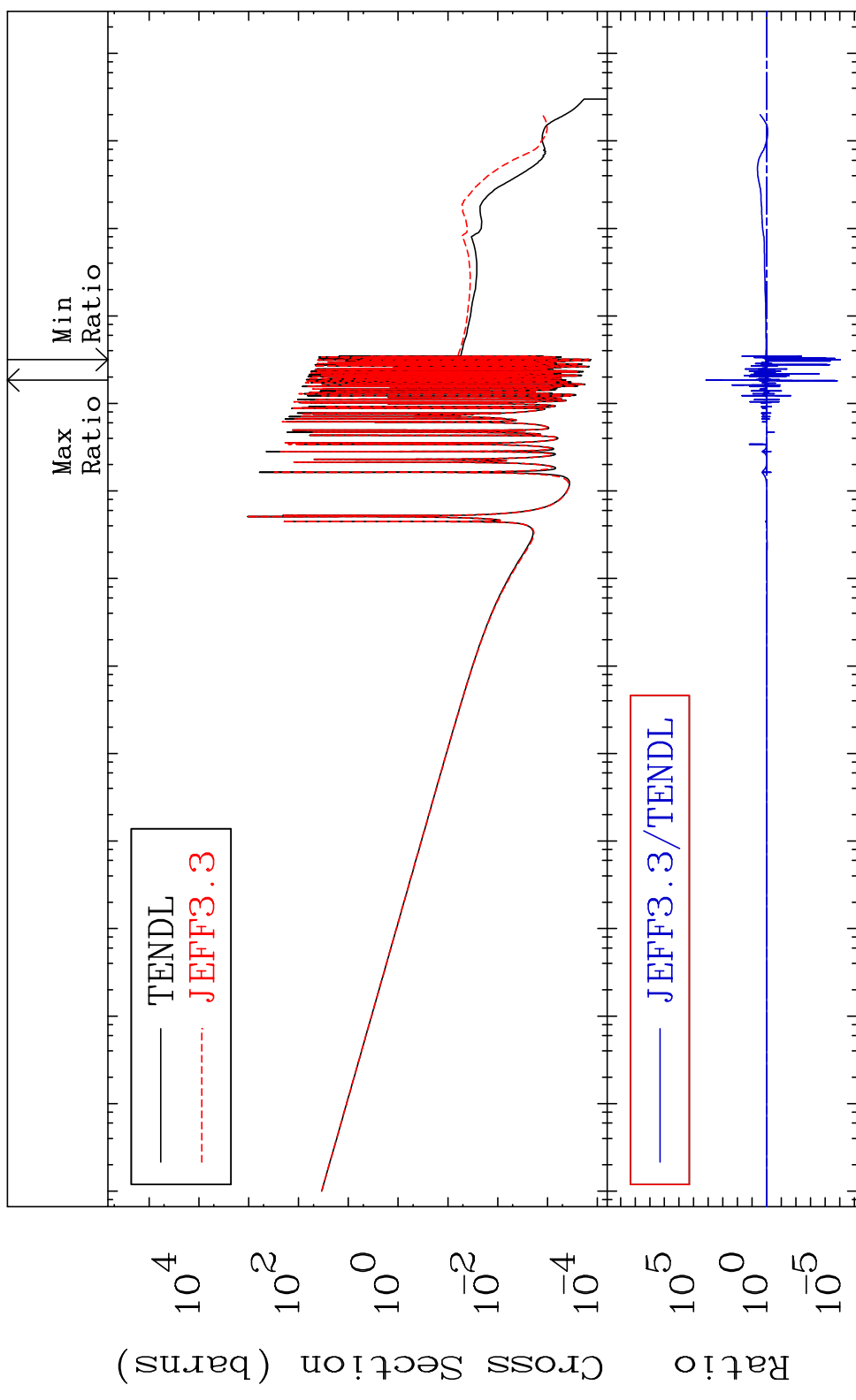


MAT 5643

(n, γ)

56-Ba-136

Cross Section -100.0 To 9999. %

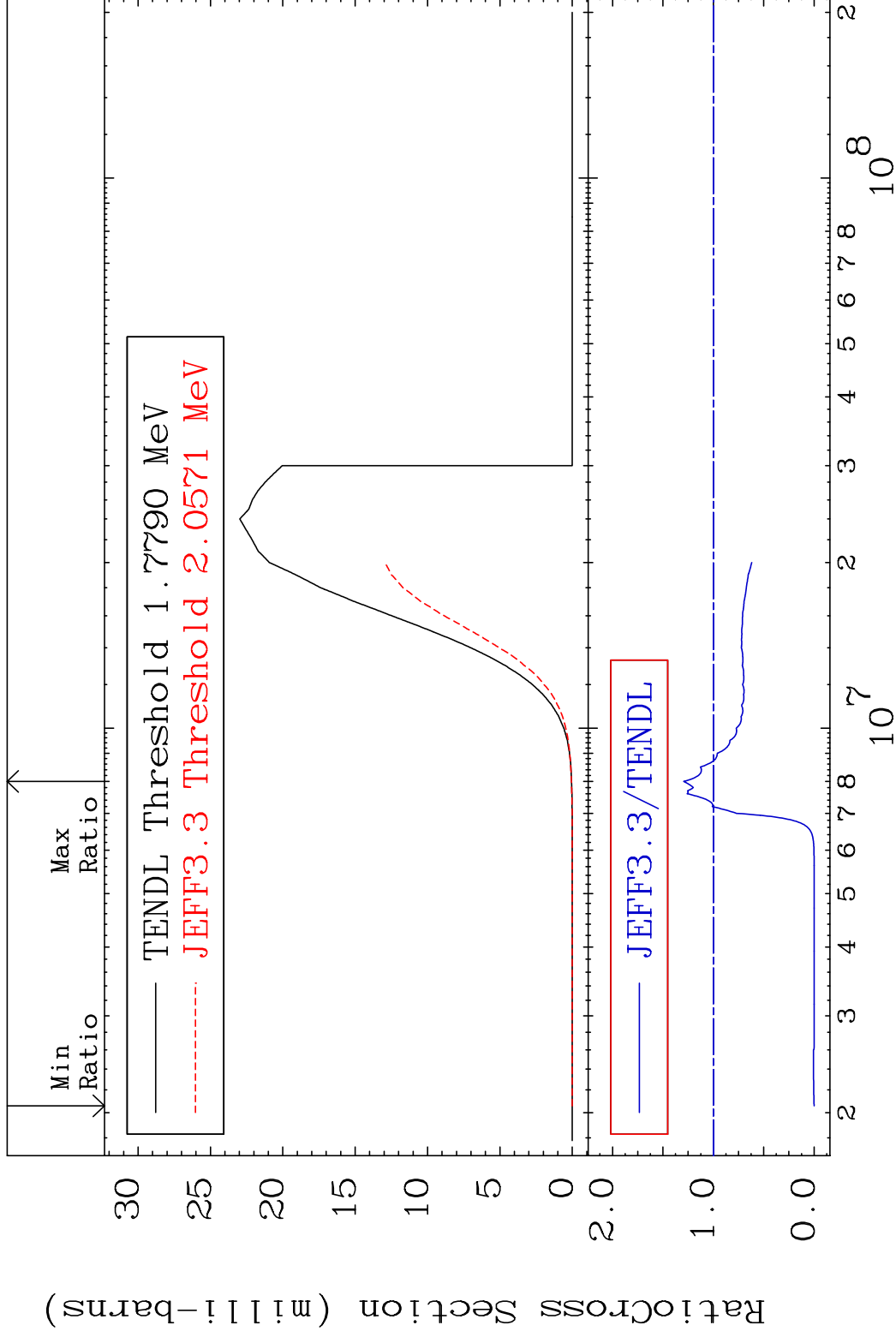


MAT 5643

(n, p)

56-Ba-136

Cross Section -100.0 To 29.42 %



20

Incident Energy (eV)

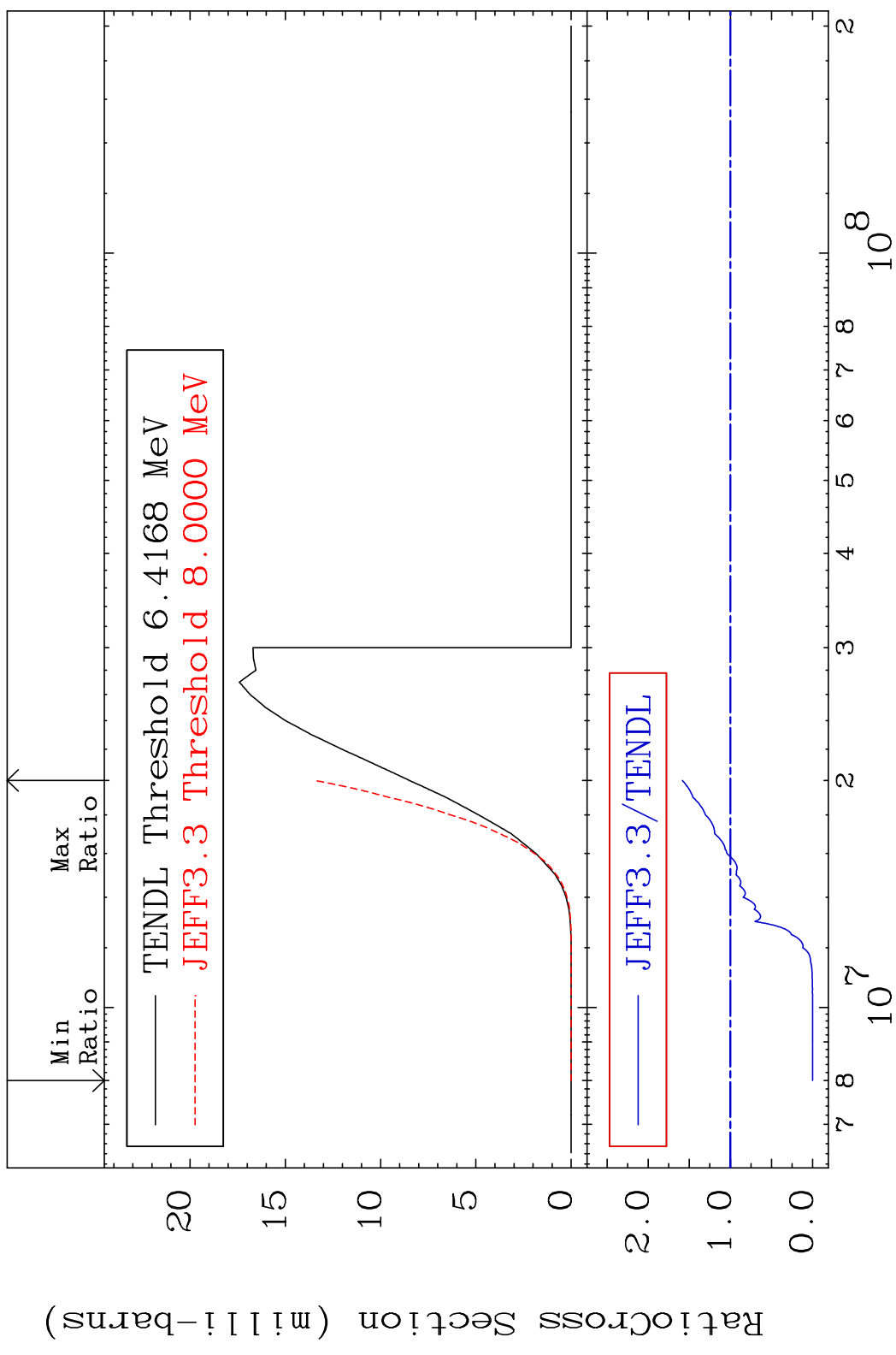
56-Ba-136

MAT 5643

(n, d)

56-Ba-136

Cross Section -100.0 To 58.48 %

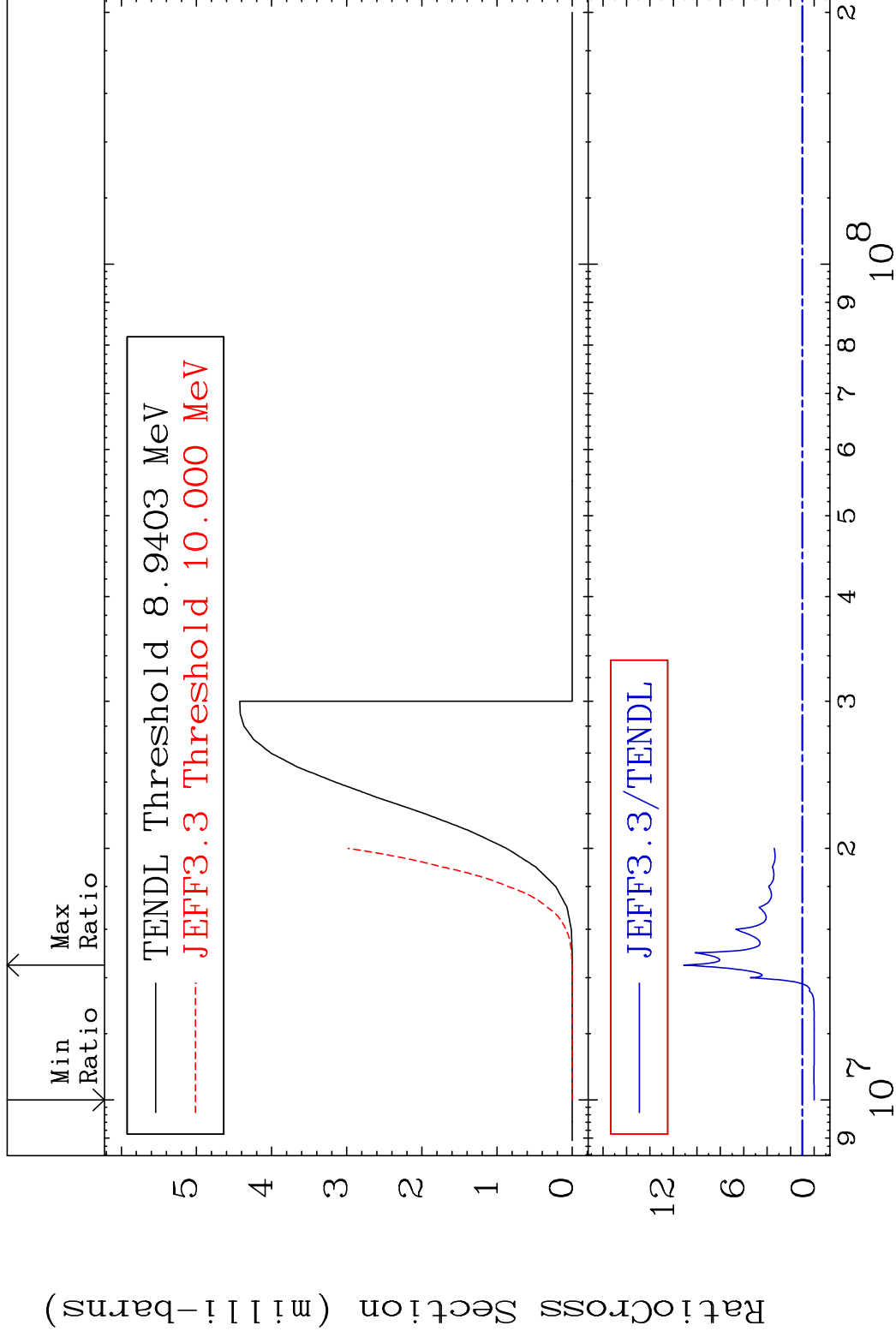


MAT 5643

(n, t)

56-Ba-136

Cross Section -100.0 To 1012. %



22

Incident Energy (eV)

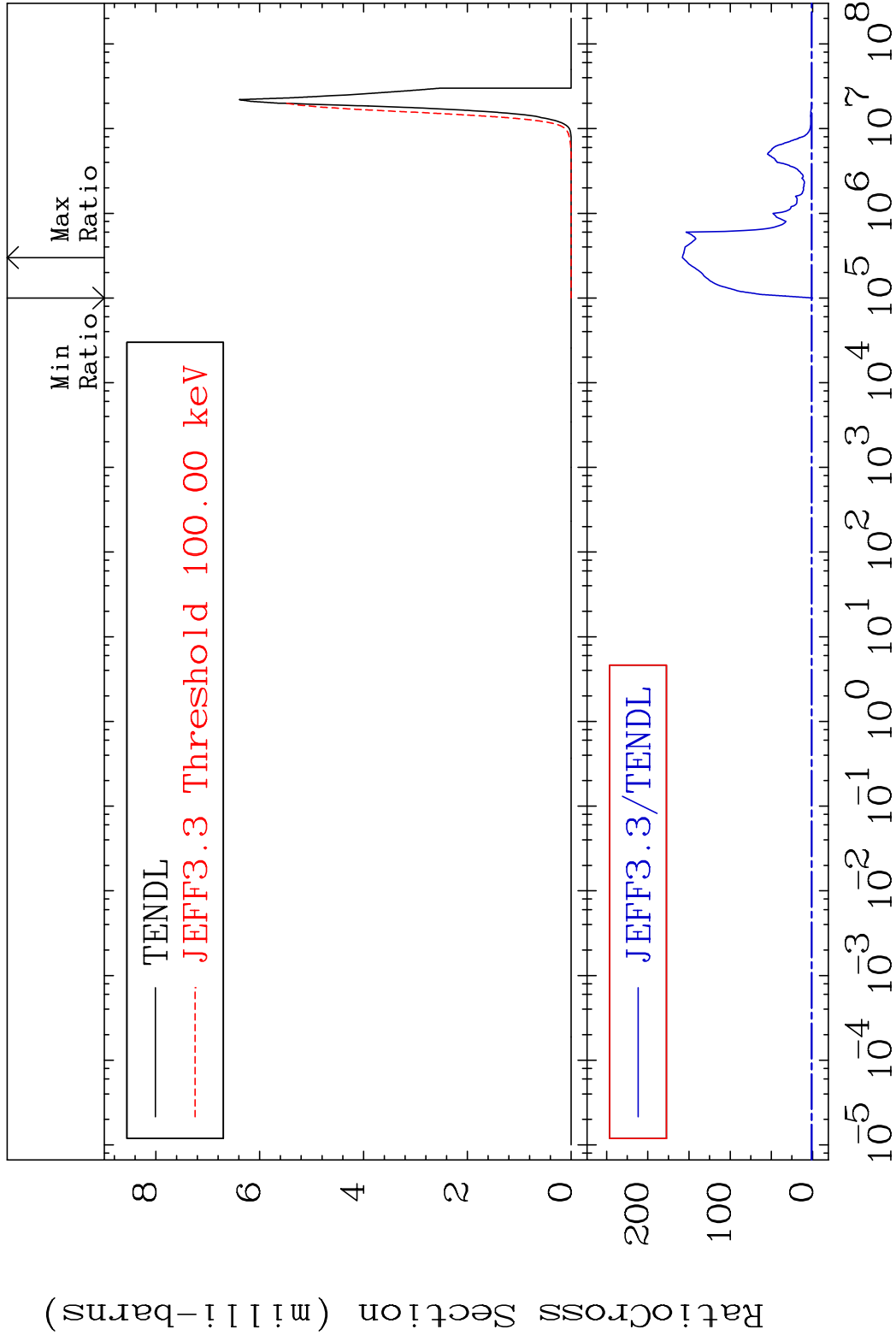
56-Ba-136

MAT 5643

(n, α)

56-Ba-136

Cross Section -100.0 To 9999. %



23

Incident Energy (eV)

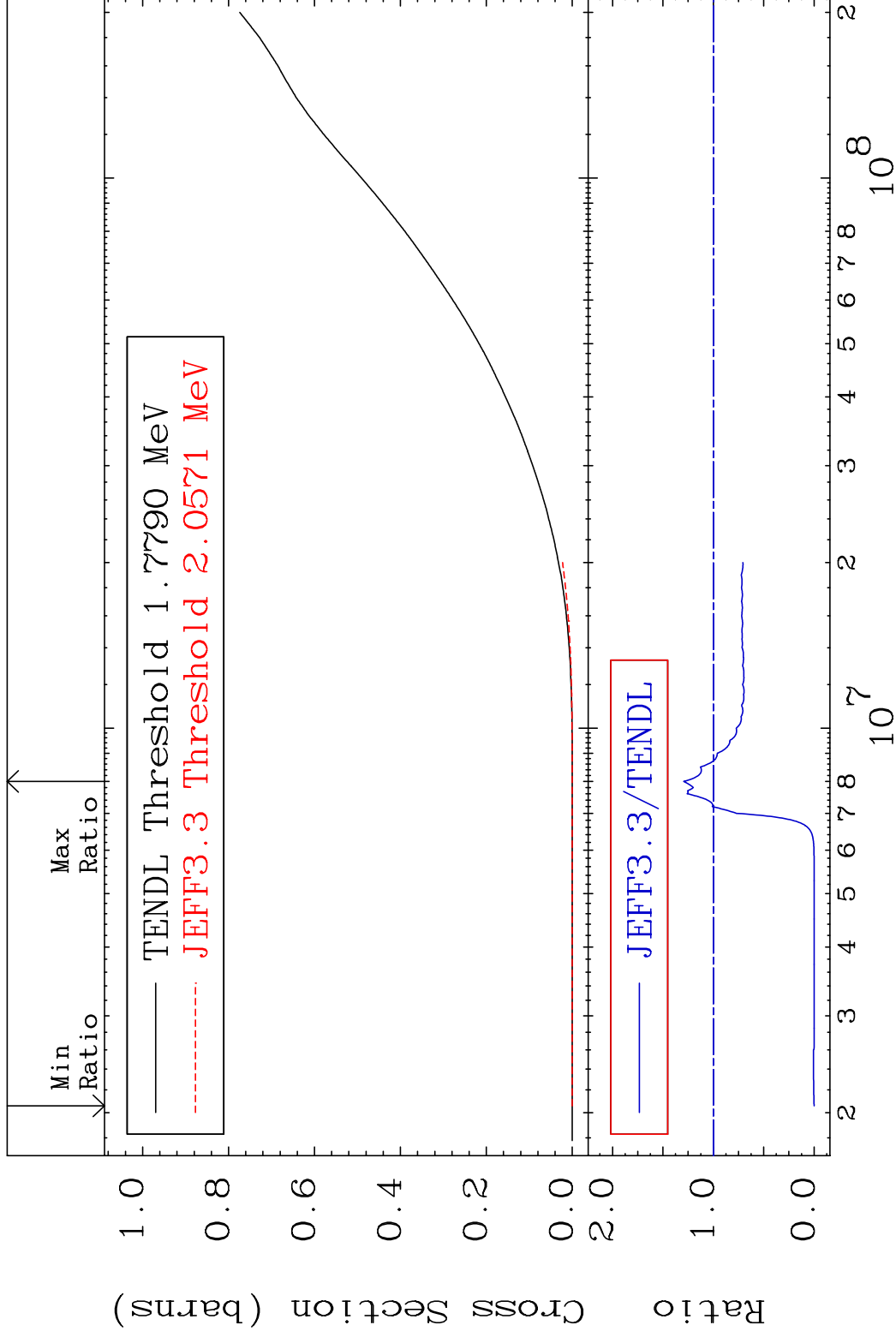
56-Ba-136

MAT 5643

Hydrogen Production

56-Ba-136

Cross Section -100.0 To 29.42 %



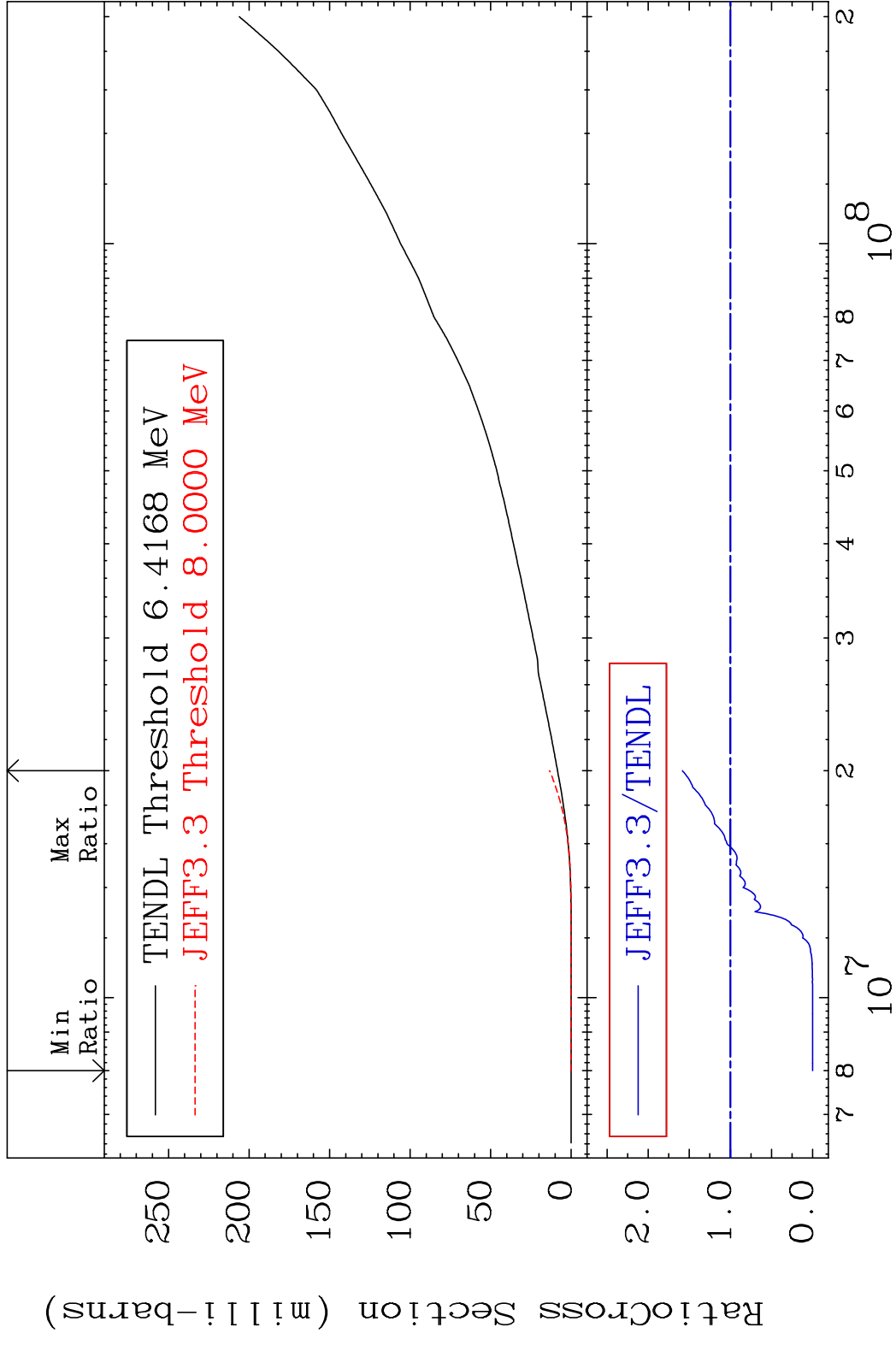
24

Incident Energy (eV)

56-Ba-136

MAT 5643

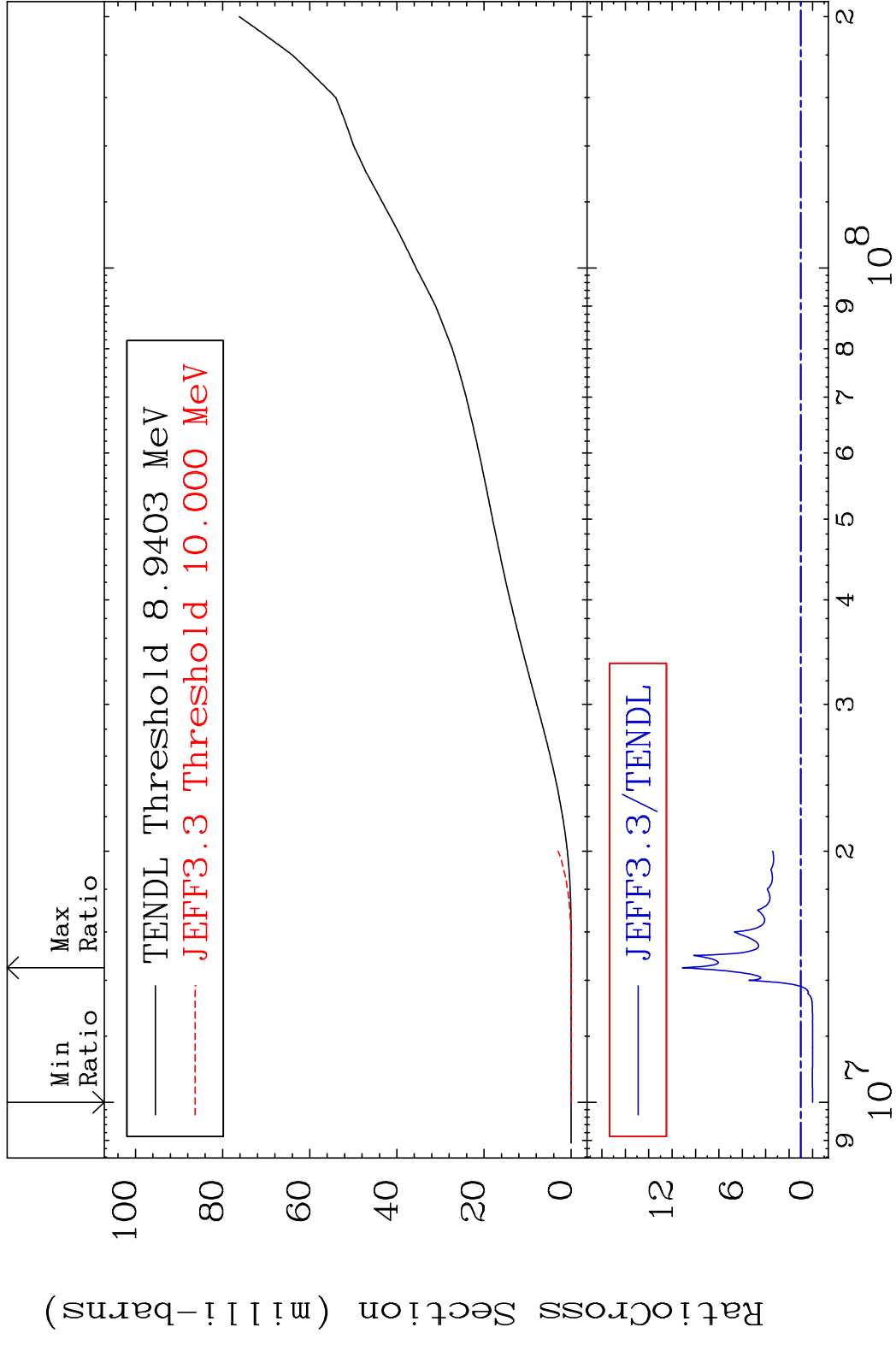
Deuterium Production 56-Ba-136
Cross Section -100.0 To 58.47 %



MAT 5643

Tritium Production
Cross Section -100.0 To 1012. %

56-Ba-136



26

Incident Energy (eV)

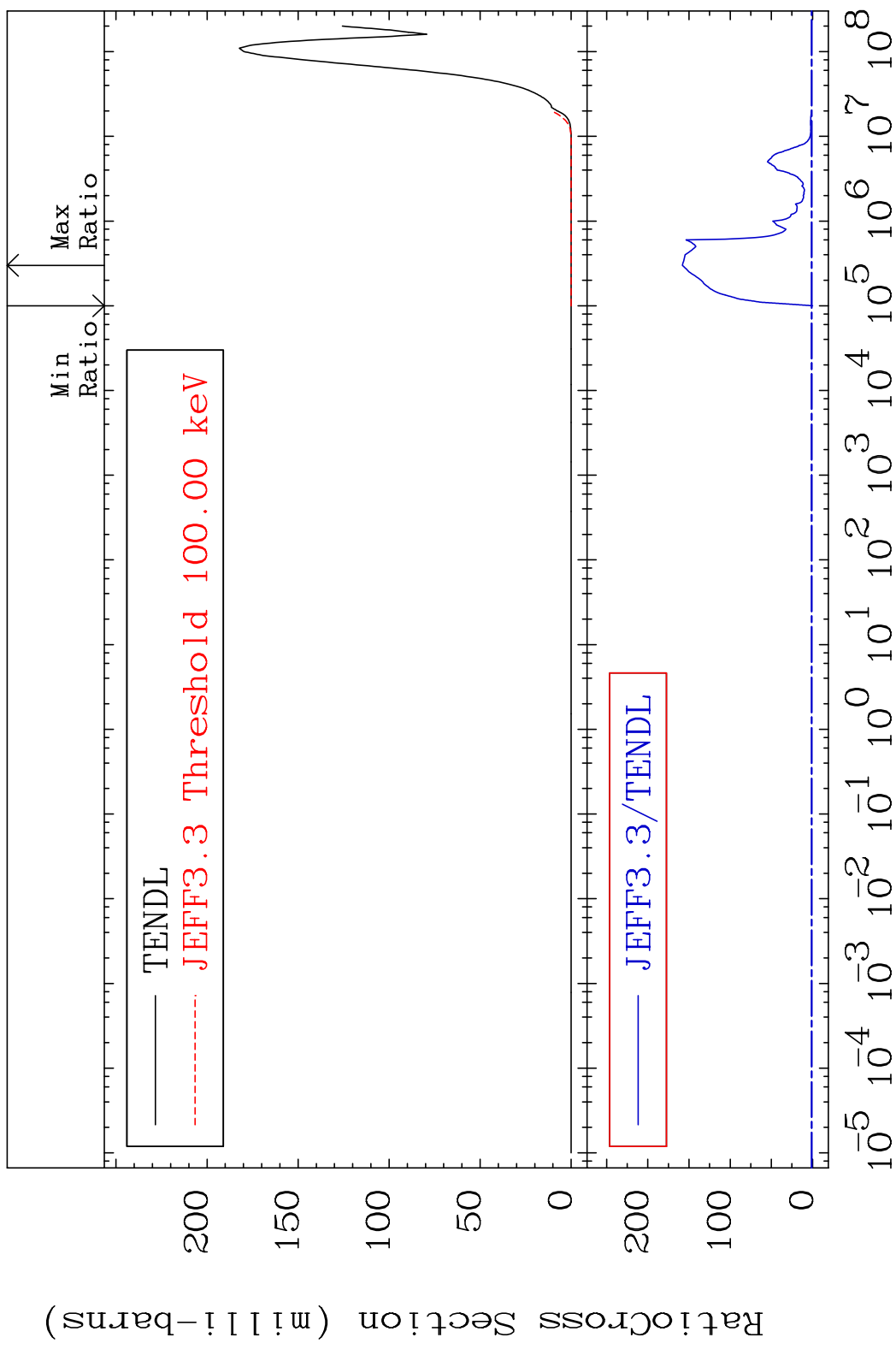
56-Ba-136

MAT 5643

He-4 Production

56-Ba-136

Cross Section -100.0 To 9999. %



27

Incident Energy (eV)

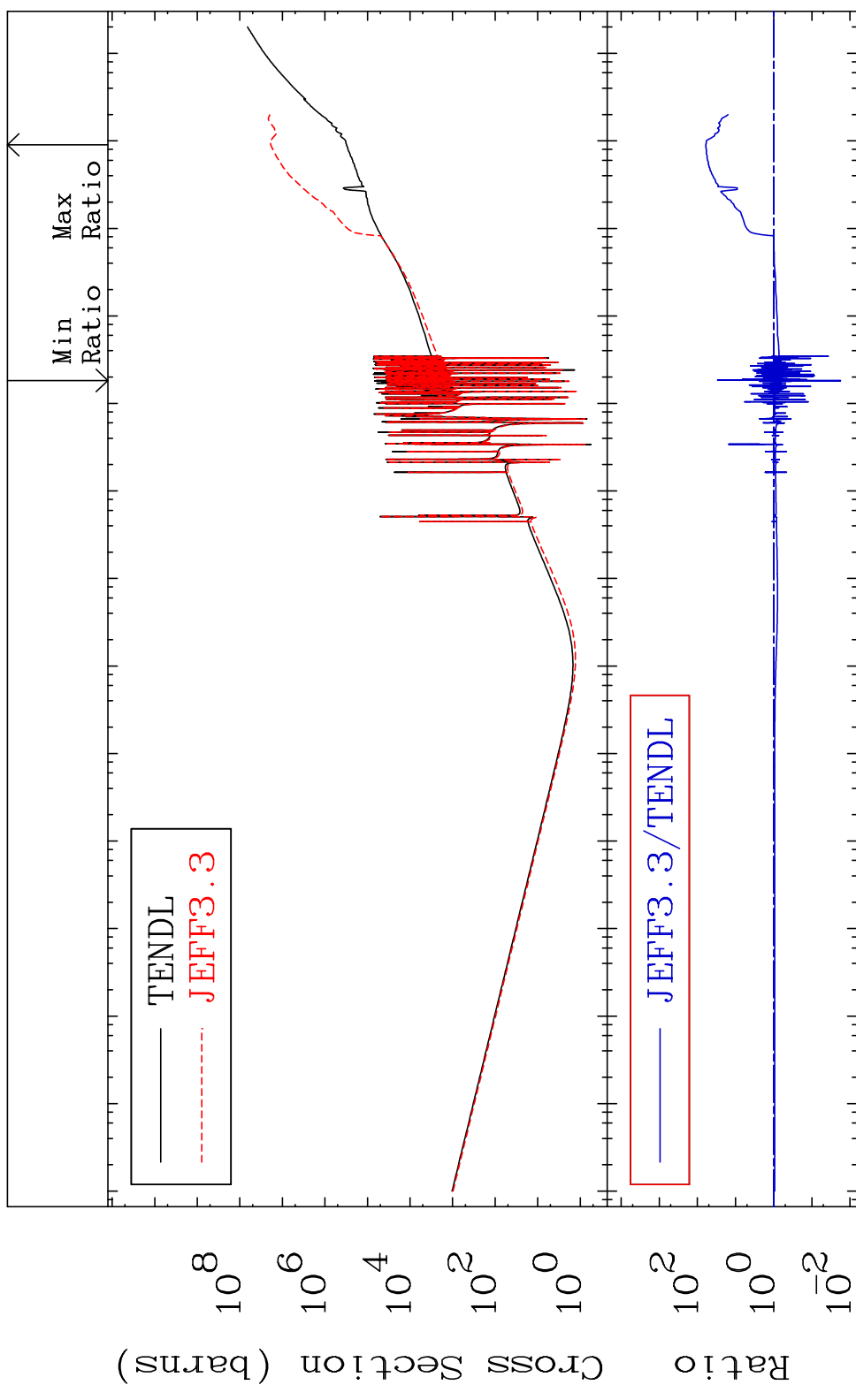
56-Ba-136

MAT 5643

Kerma total (eV-barns)

56-Ba-136

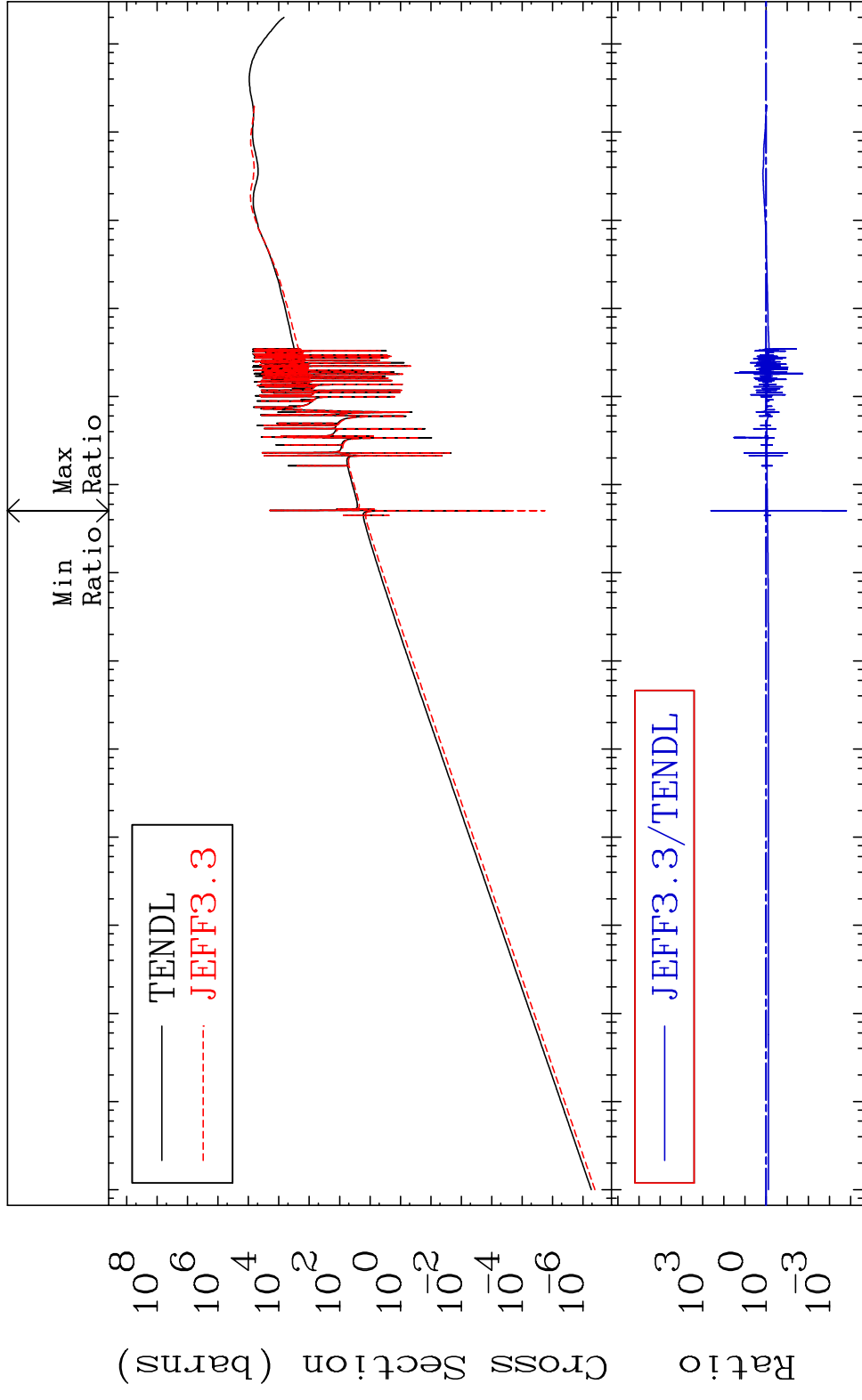
Cross Section -98.21 To 5945. %



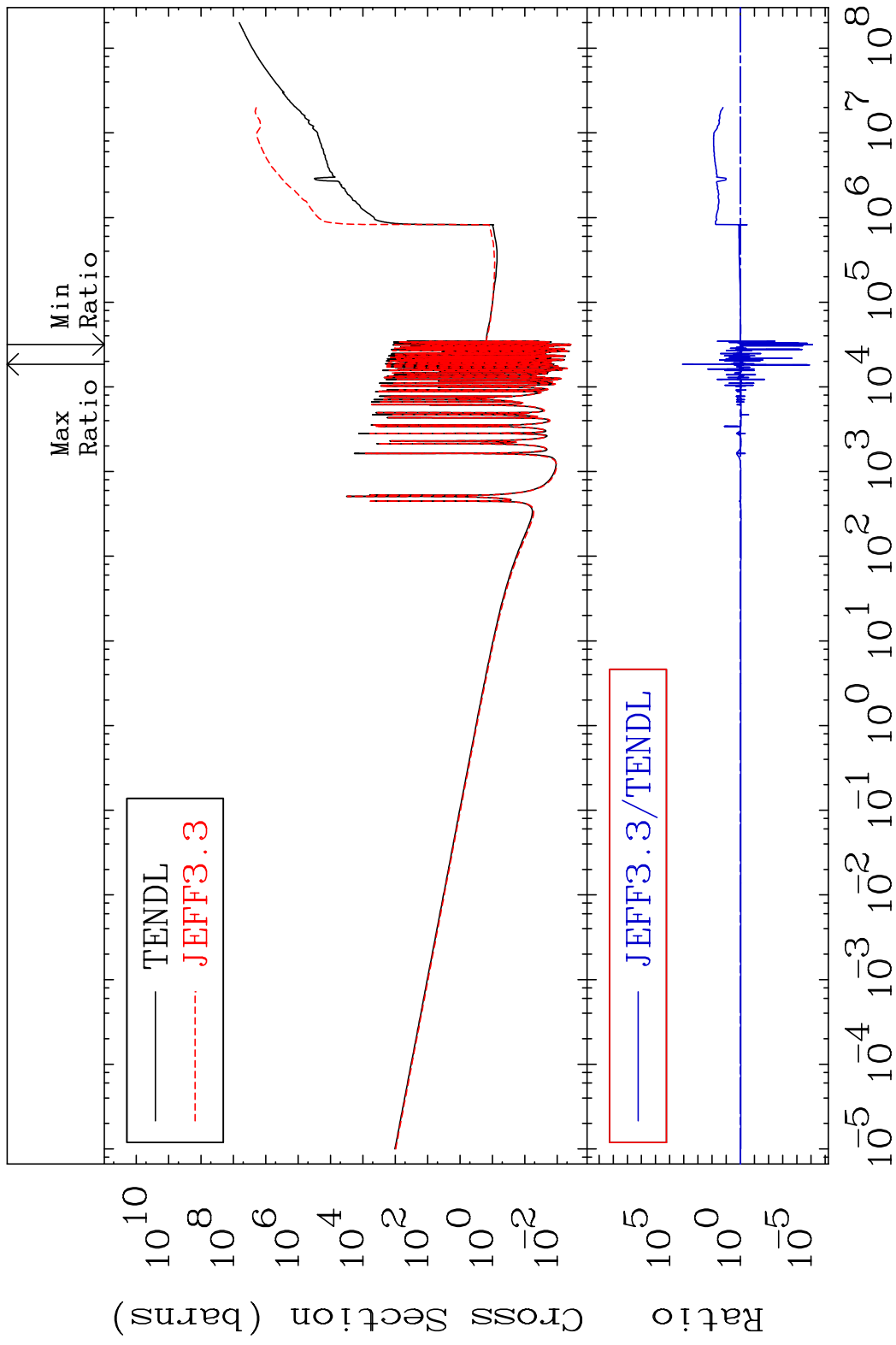
MAT 5643

Kerma elastic
Cross Section -99.98 To 9999. %

56-Ba-136
To 9999. %

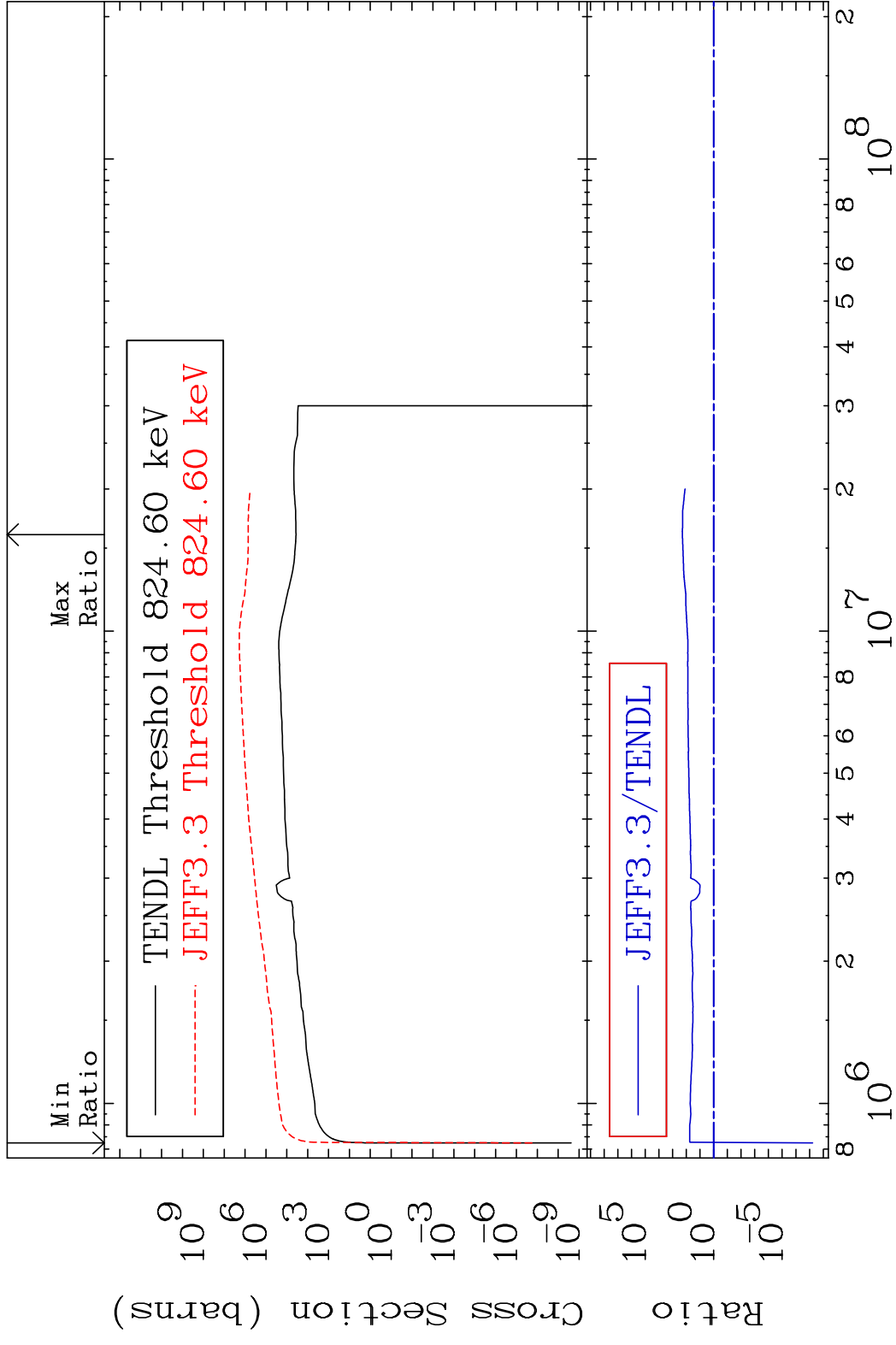


MAT 5643 Kerma non-elastic (all but mt2) 56-Ba-136
 Cross Section -100.0 To 9999. %

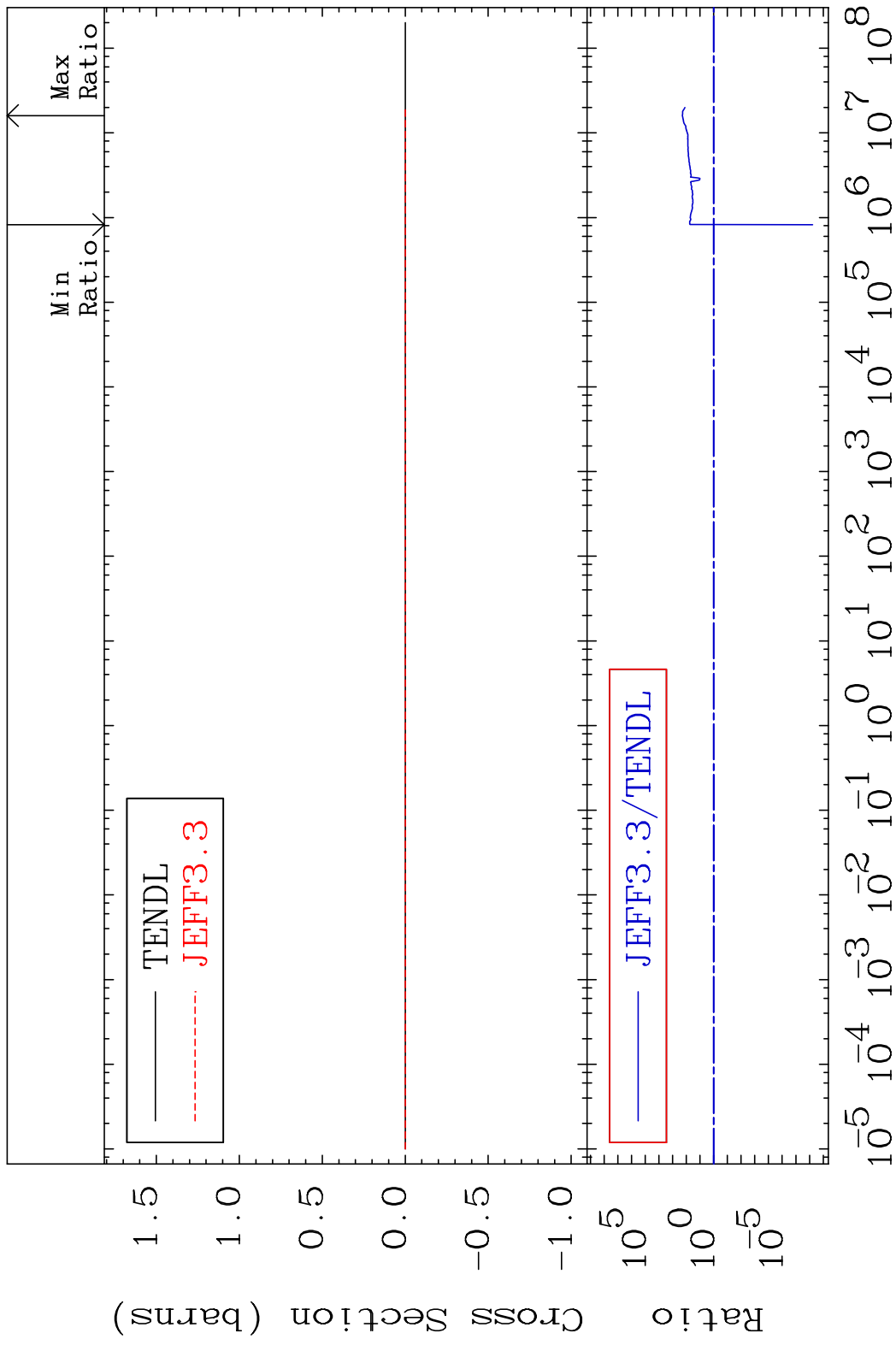


30 Incident Energy (eV) 56-Ba-136

MAT 5643 Kerma inelastic (mt51-91) 56-Ba-136
 Cross Section -100.0 To 9999. %



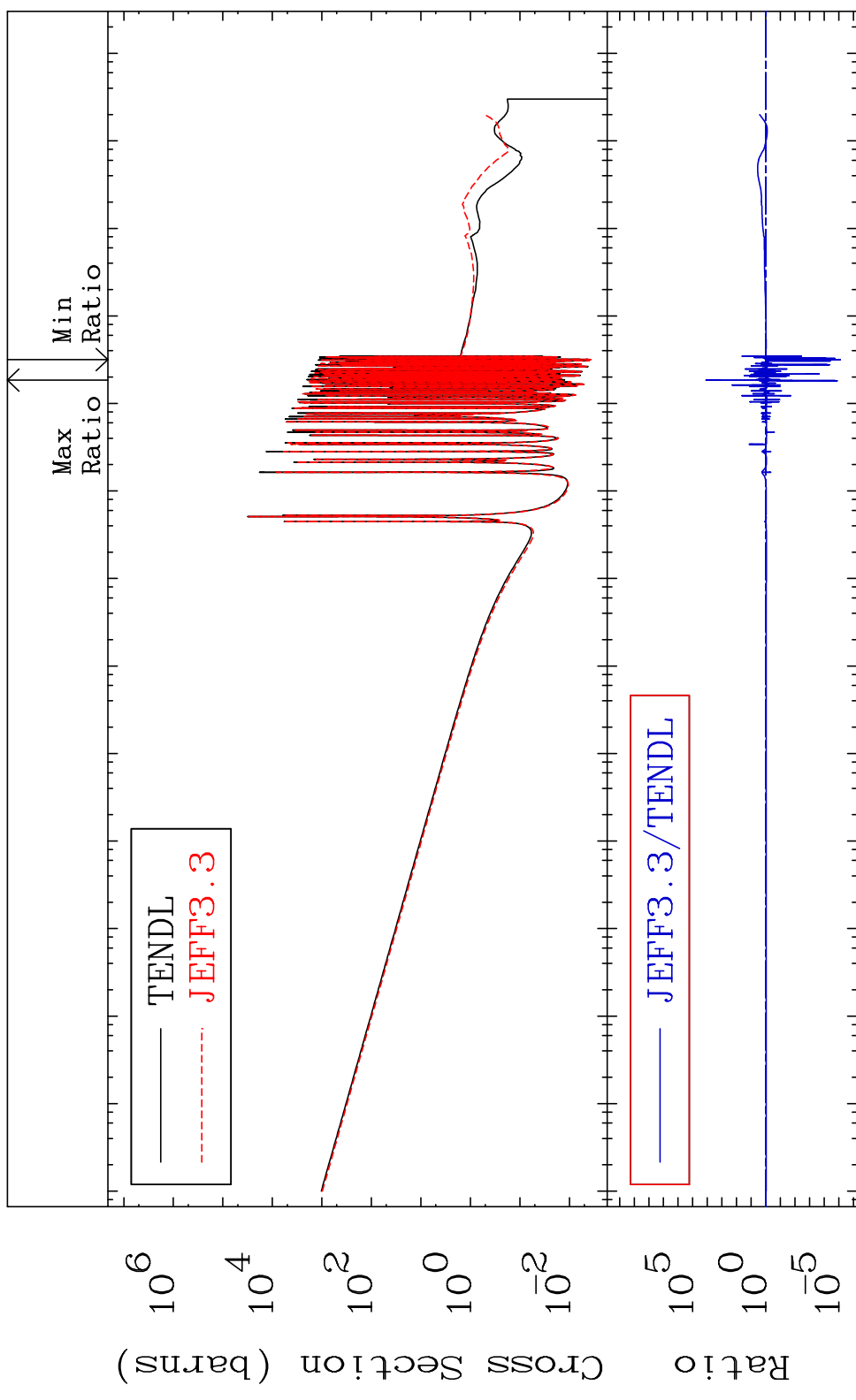
MAT 5643 Kerma fission (mt18 or mt19-20-21-38) 56-Ba-136
 Cross Section -100.0 To 9999. %



MAT 5643

Kerma capture (mt102) 56-Ba-136

Cross Section -100.0 To 9999. %



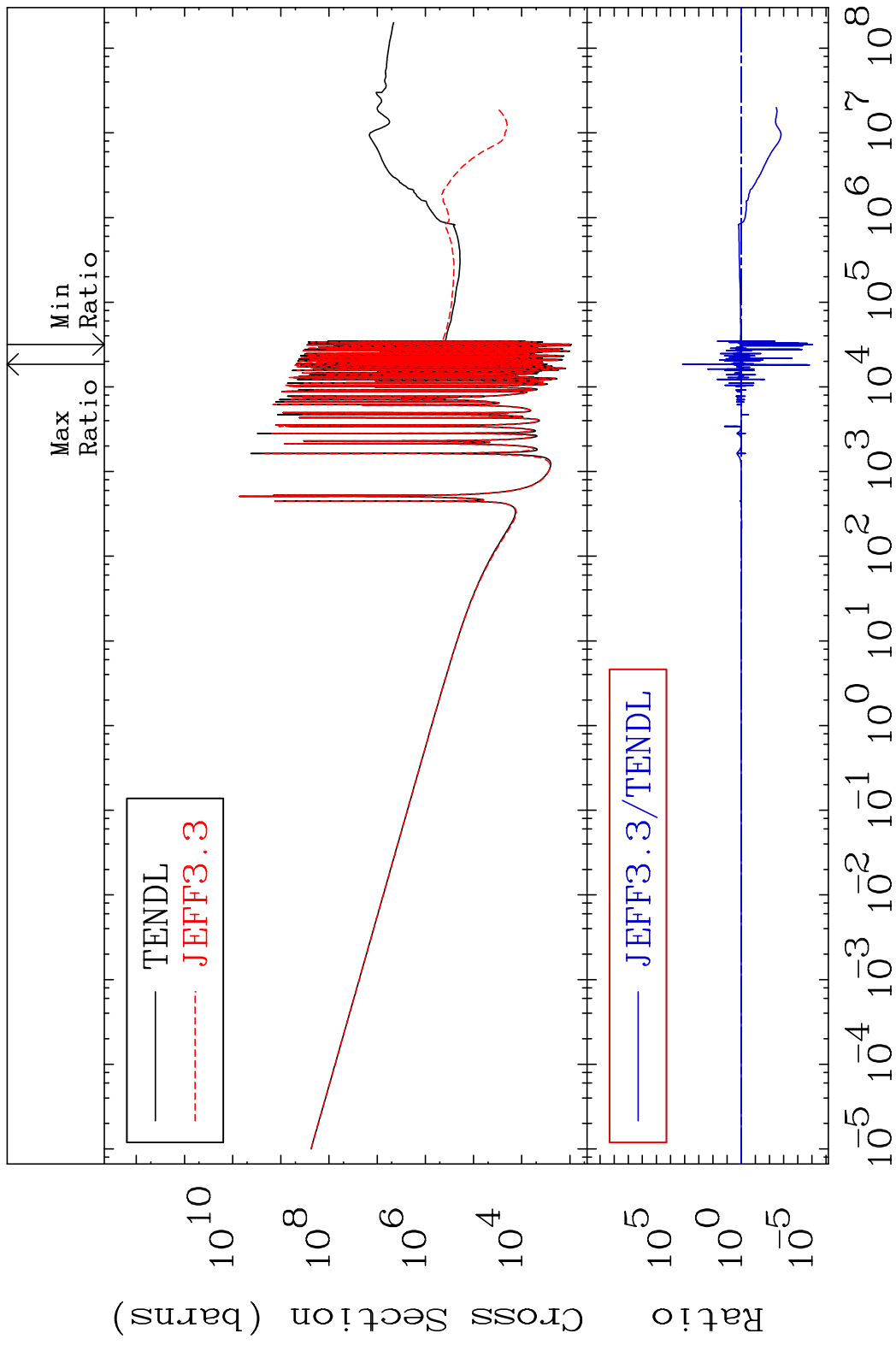
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

33

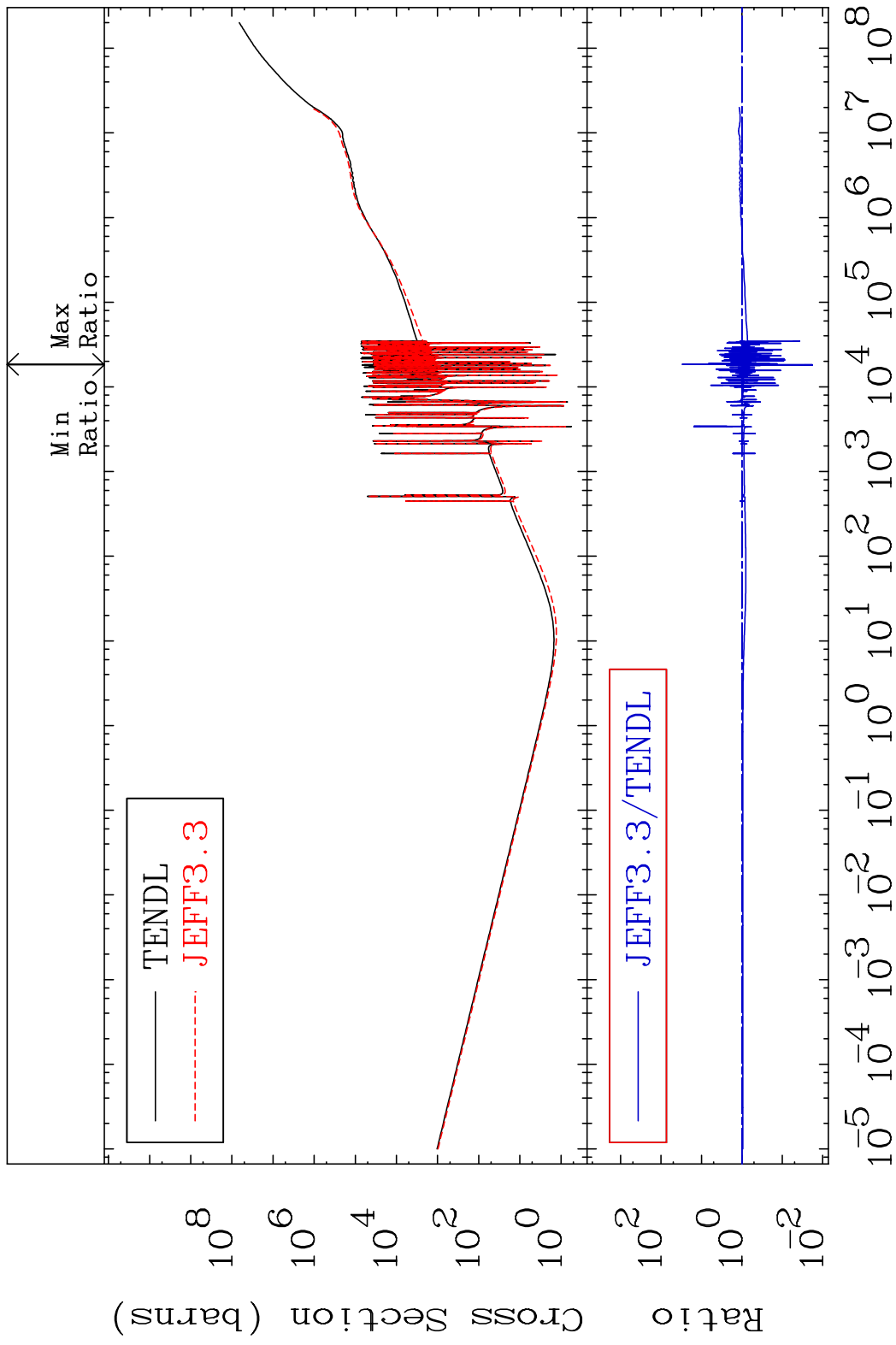
Incident Energy (eV)

56-Ba-136

MAT 5643 Total photon (eV-barns) 56-Ba-136
 Cross Section -100.0 To 9999. %



MAT 5643 Total kinematic kerma (high limit) 56-Ba-136
 Cross Section -98.21 To 2873. %

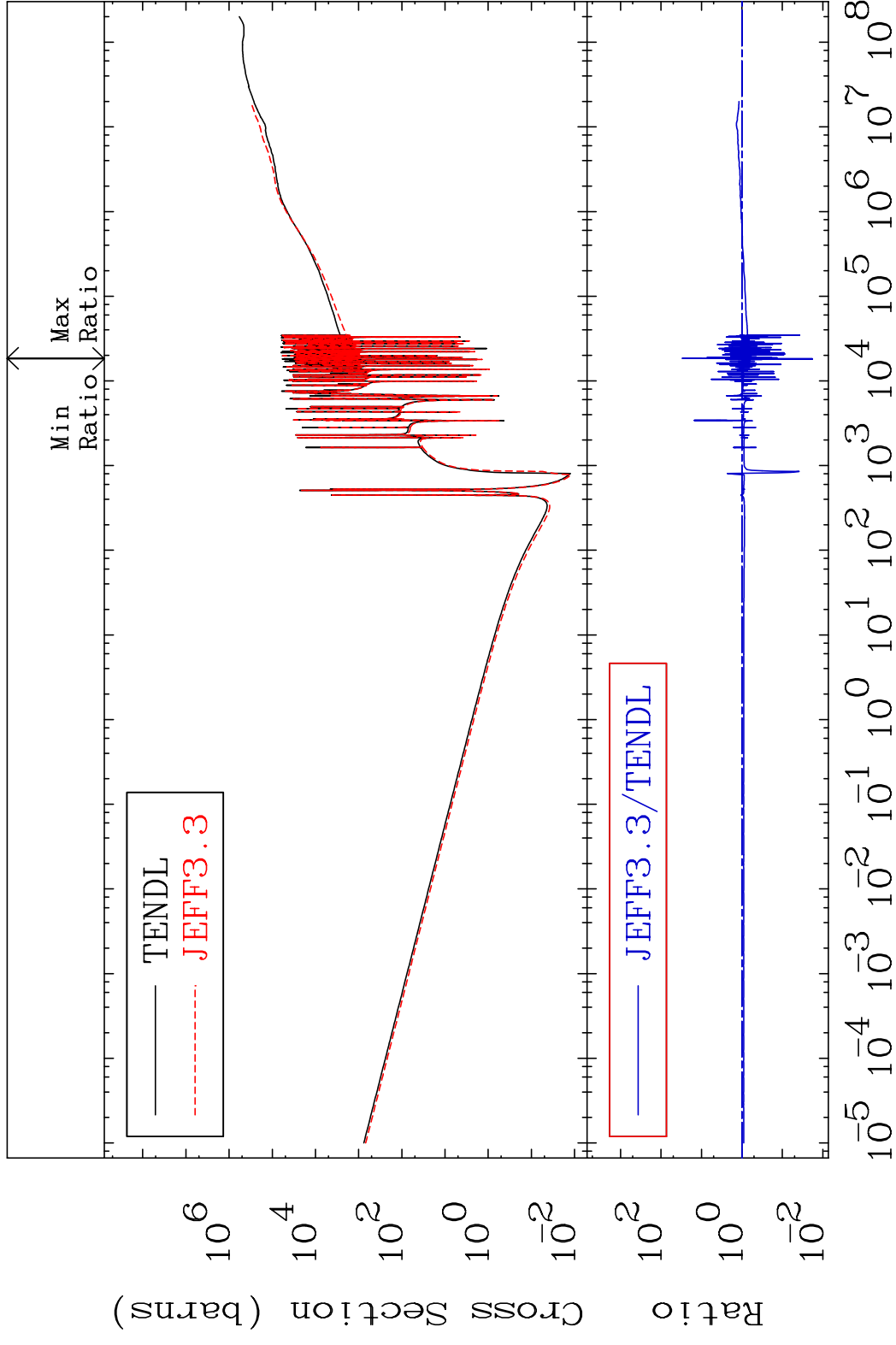


MAT 5643

Dpa total (eV-barns)

56-Ba-136

Cross Section -98.21 To 2868. %

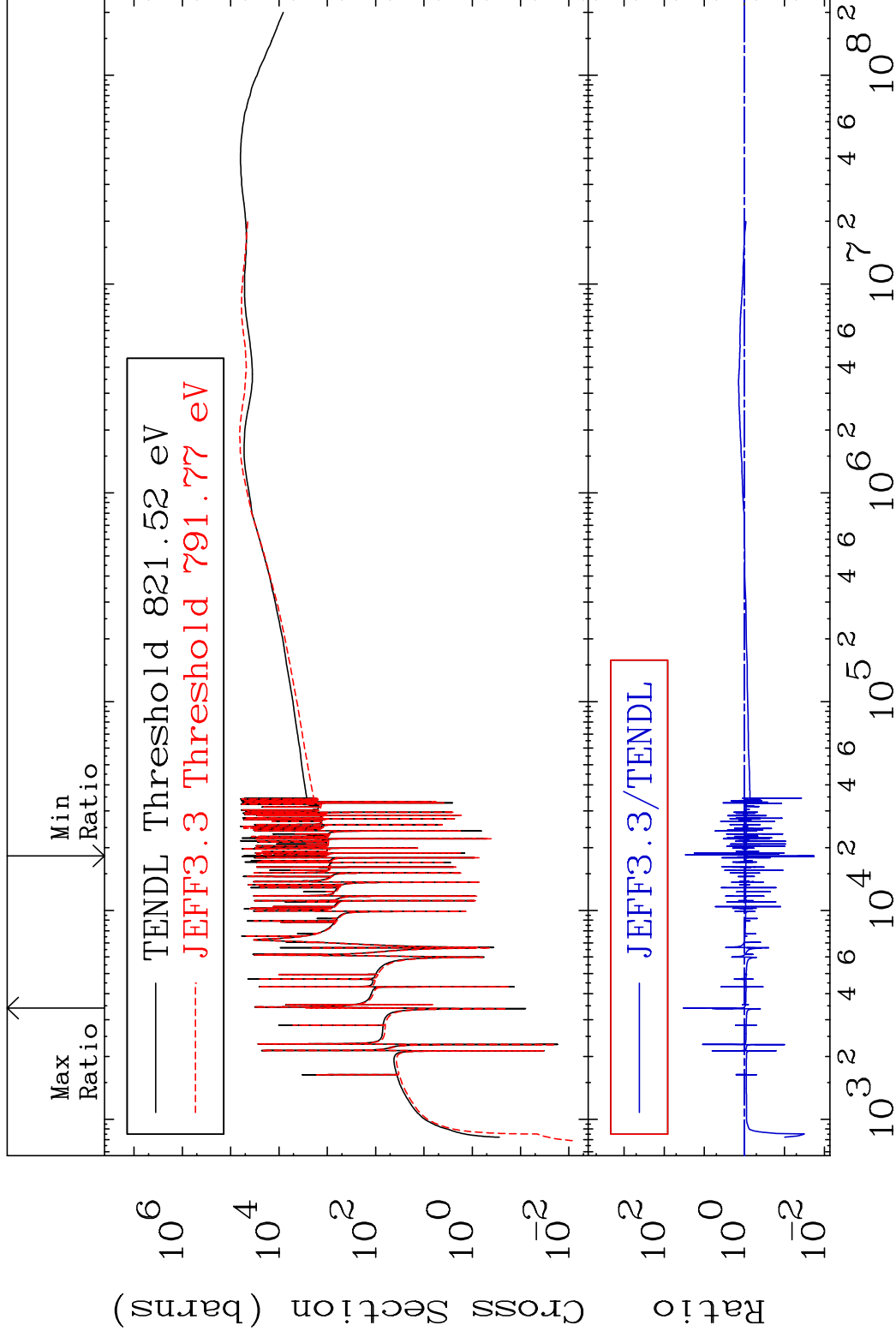


MAT 5643

Dpa elastic (mt2)

56-Ba-136

Cross Section -98.19 To 3169. %

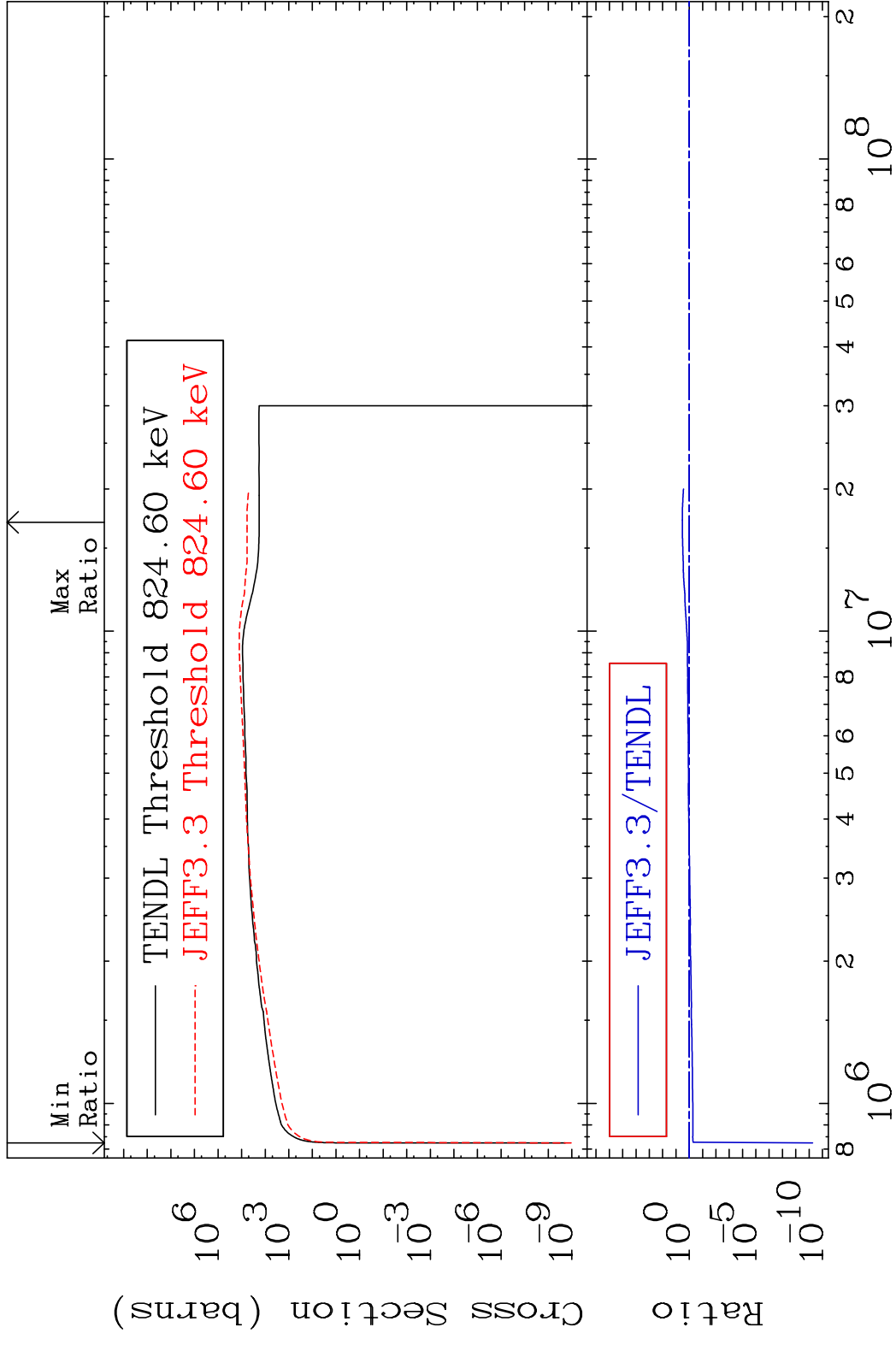


37

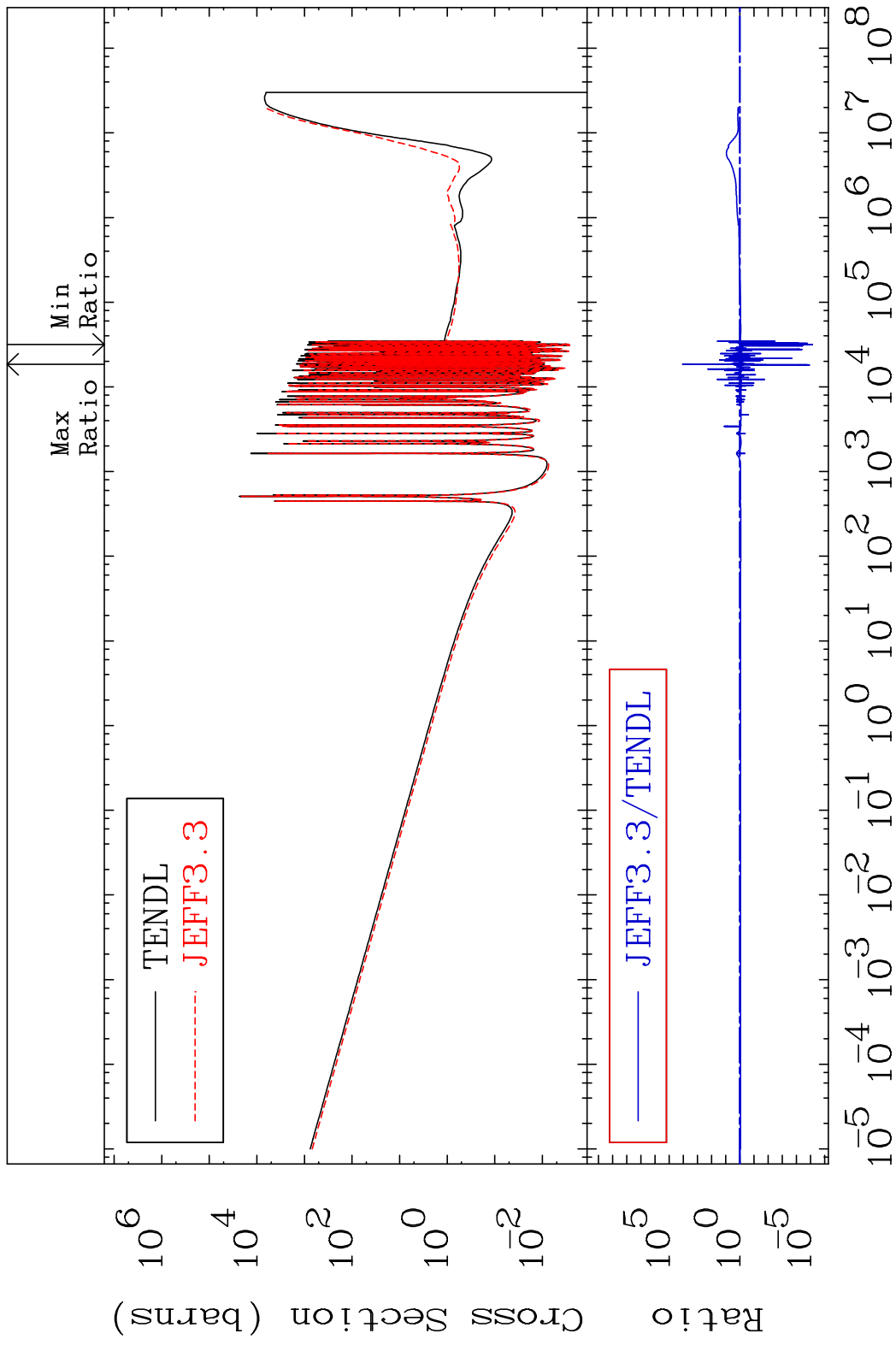
Incident Energy (eV)

56-Ba-136

MAT 5643 Dpa inelastic (mt51-91) 56-Ba-136
 Cross Section -100.0 To 230.0 %



MAT 5643 Dpa disappearance (mt102 -120) 56-Ba-136
 Cross Section -100.0 To 9999. %



39 Incident Energy (eV) 56-Ba-136