

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

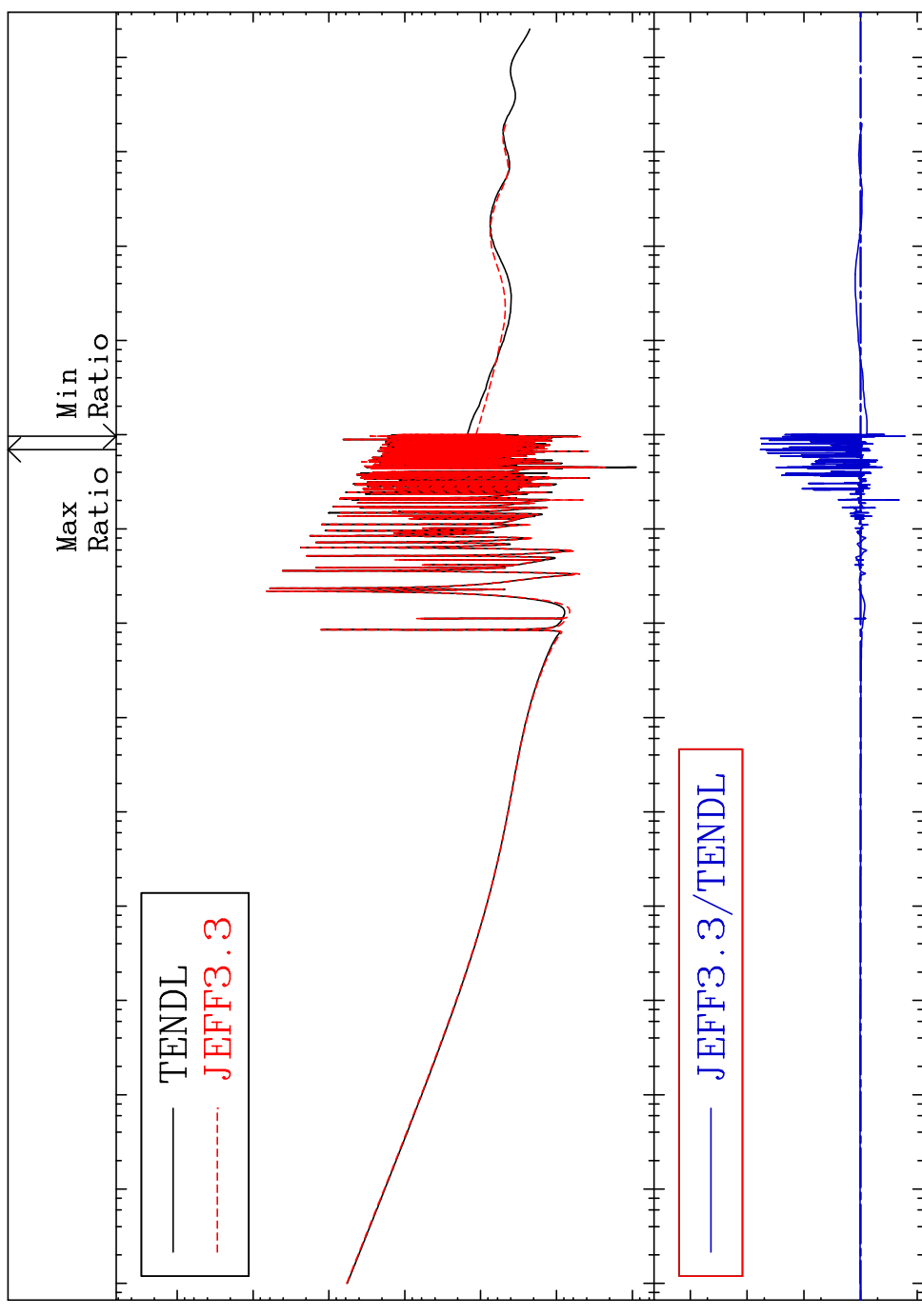
MAT 5925

Total

59-Pr-141

Cross Section

-83.73 To 5781. %



10⁵
10⁴
10³
10²
10¹
10⁰
10⁻¹
Ratio
10²
10⁰

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

1 Incident Energy (eV)

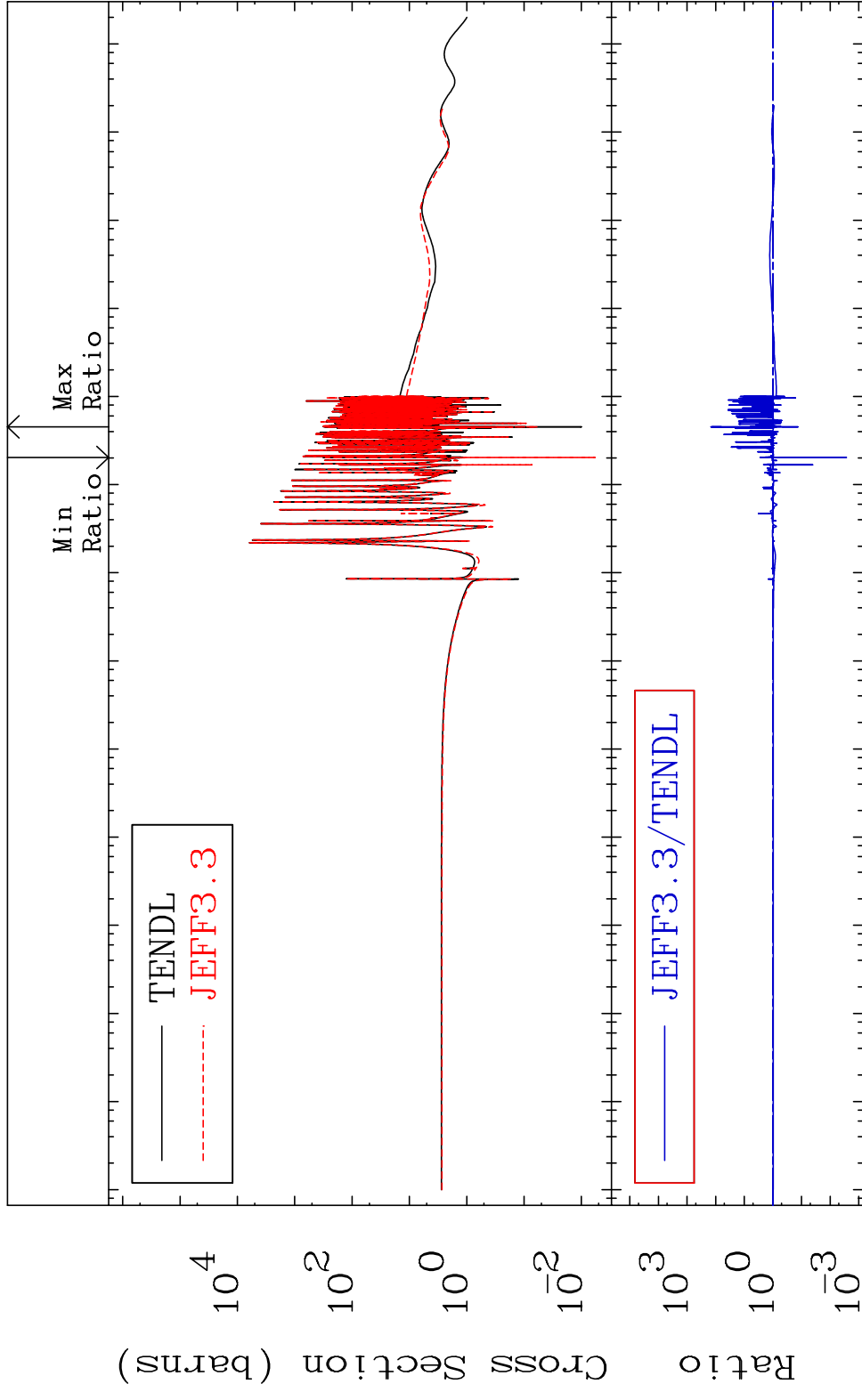
59-Pr-141

MAT 5925

Elastic

59-Pr-141

Cross Section -99.73 To 9999. %



2

Incident Energy (eV)

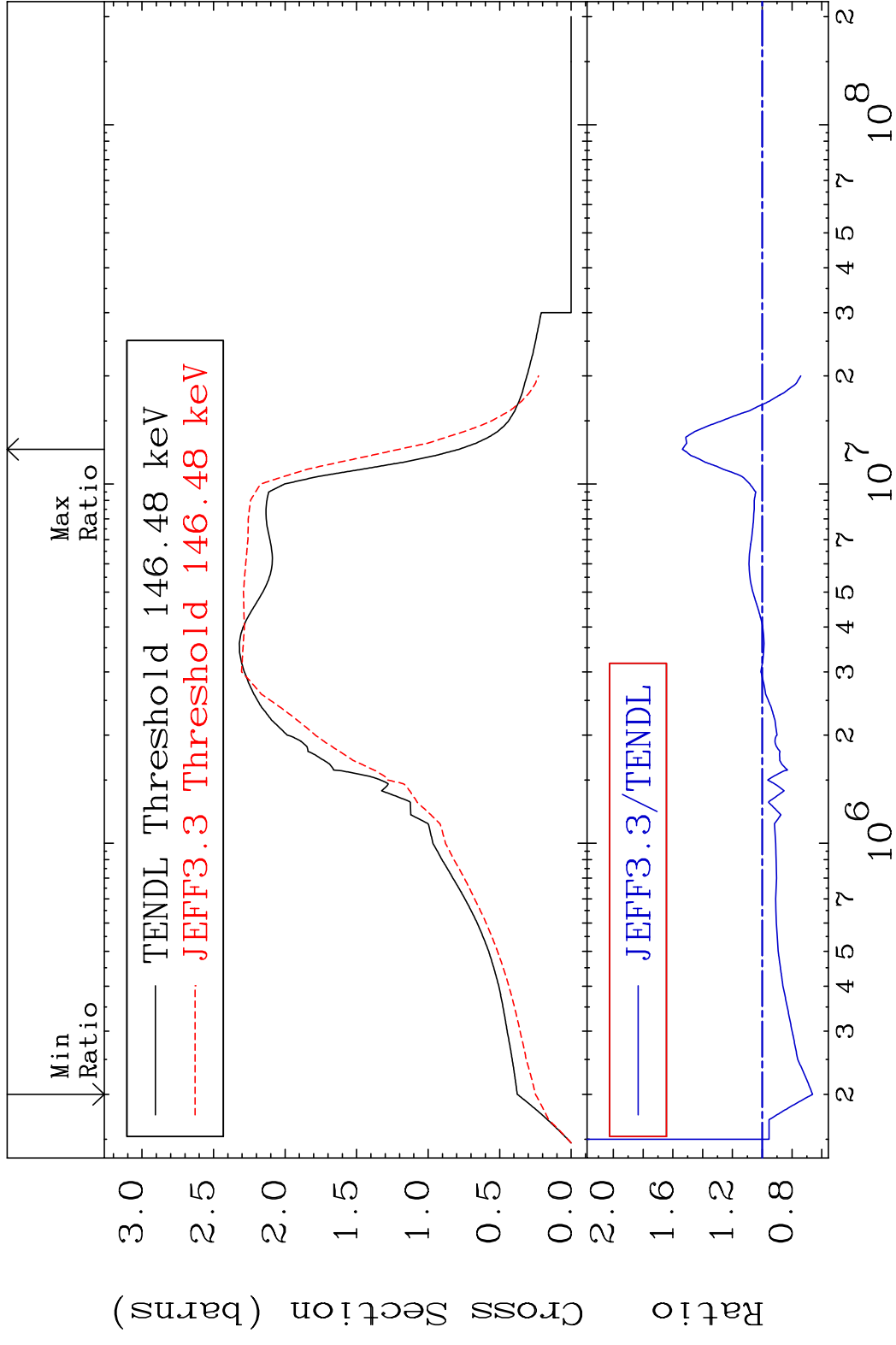
59-Pr-141

MAT 5925

Inelastic

59-Pr-141

Cross Section -33.81 To 53.62 %

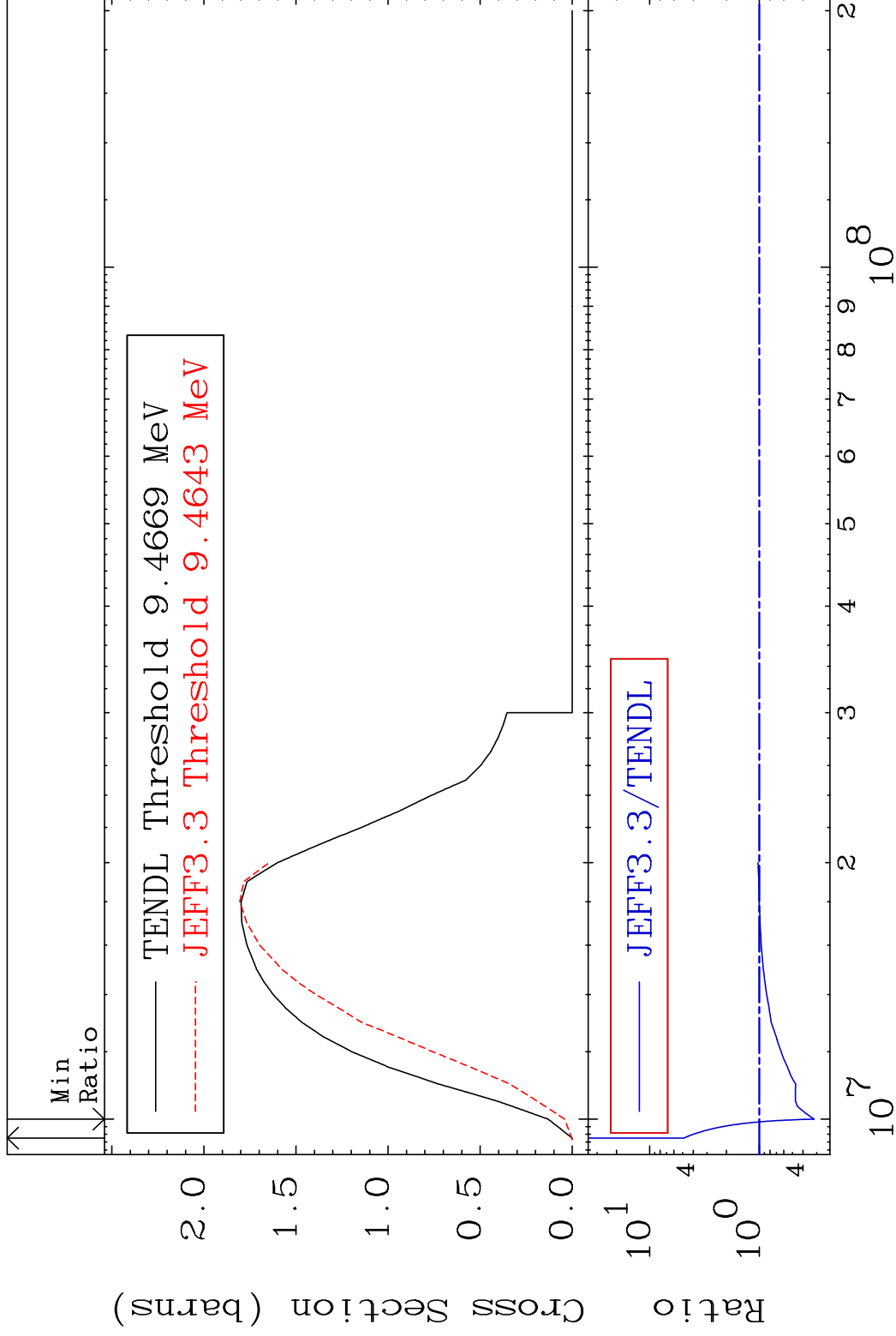


MAT 5925

(n,2n)

59-Pr-141

Cross Section -68.28 To 389.2 %



4

Incident Energy (eV)

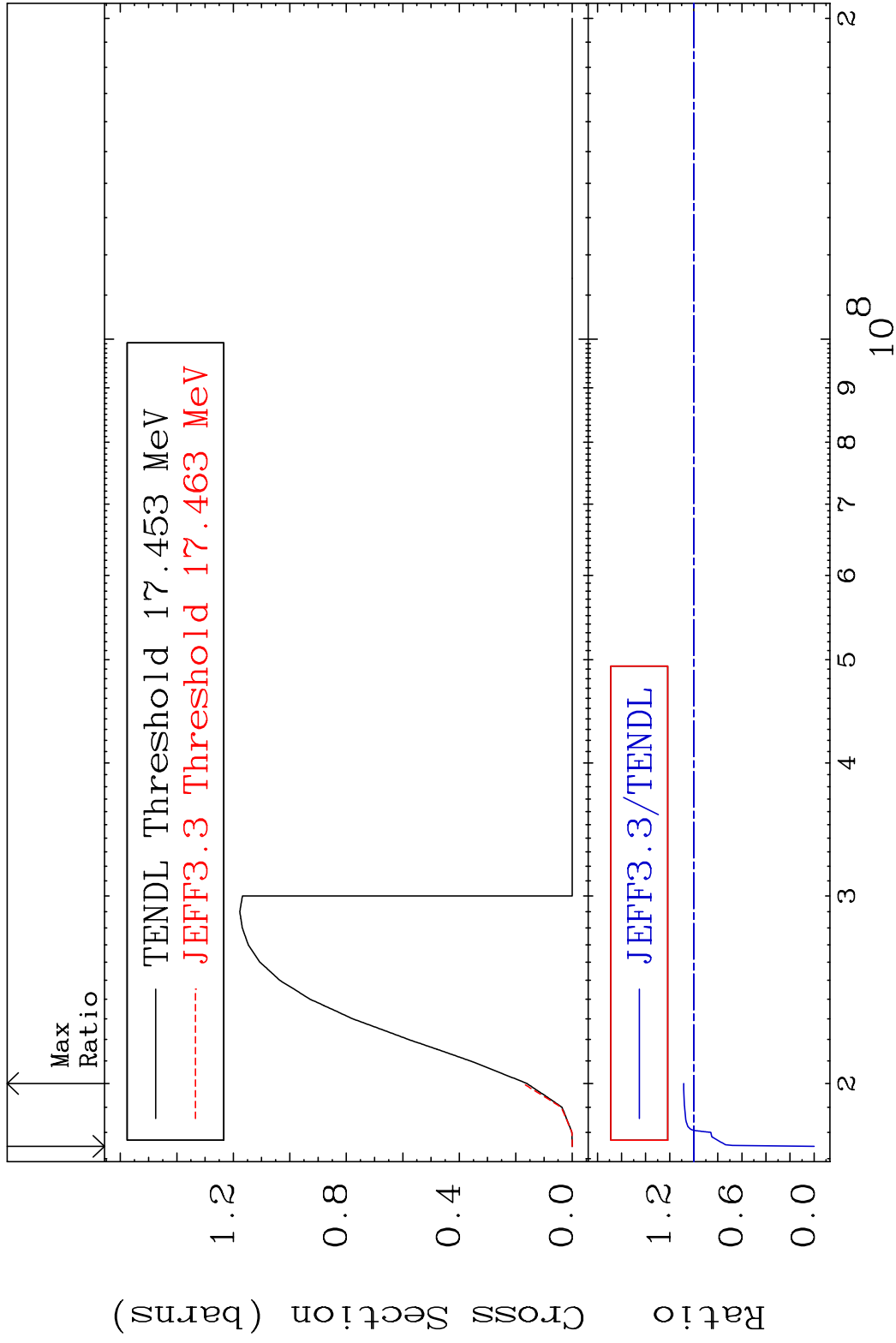
59-Pr-141

MAT 5925

(n,3n)

59-Pr-141

Cross Section -100.0 To 8.404 %



5

Incident Energy (eV)

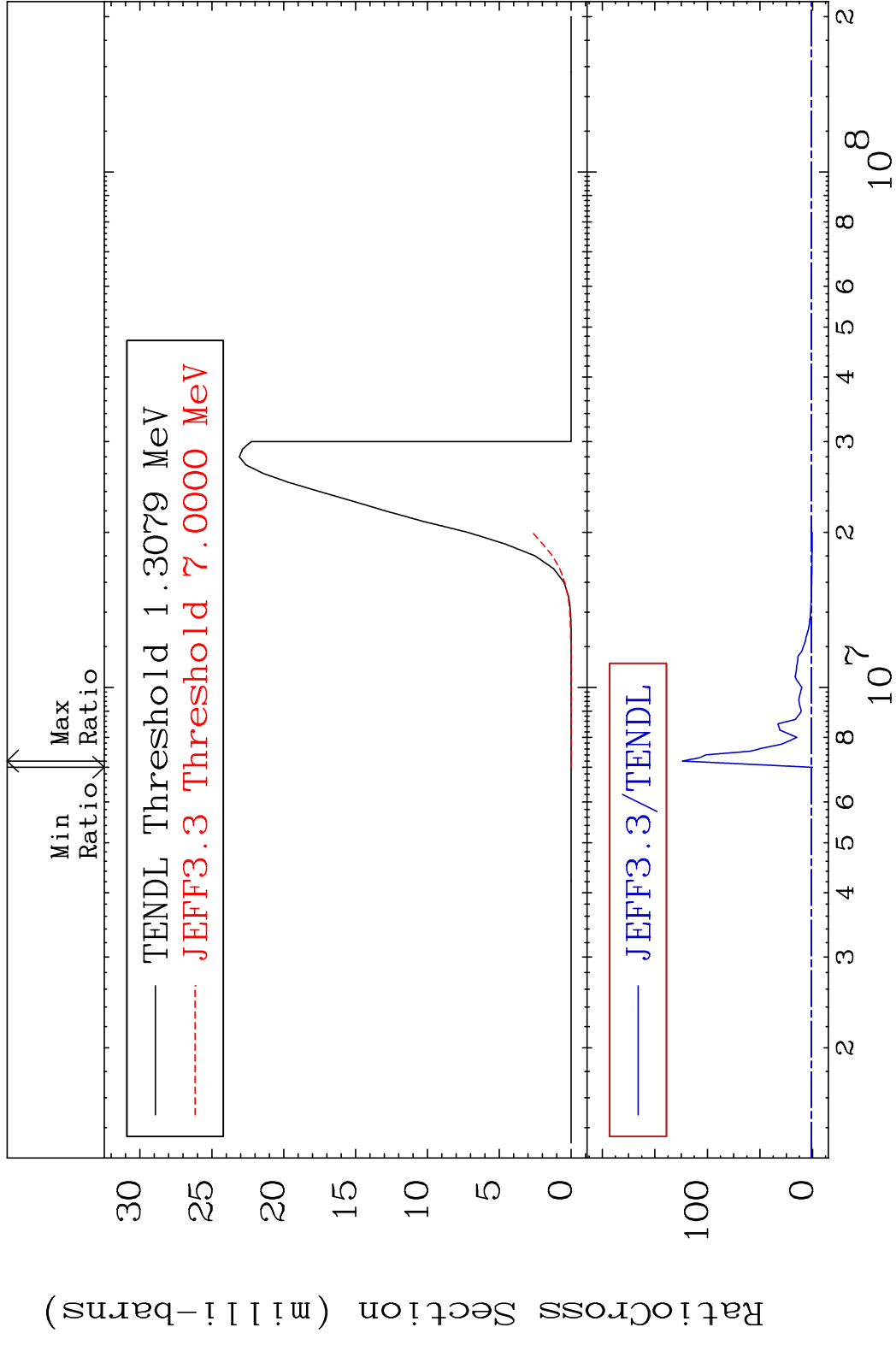
59-Pr-141

MAT 5925

59-Pr-141

(n, n') α

Cross Section -100.0 To 9999. %

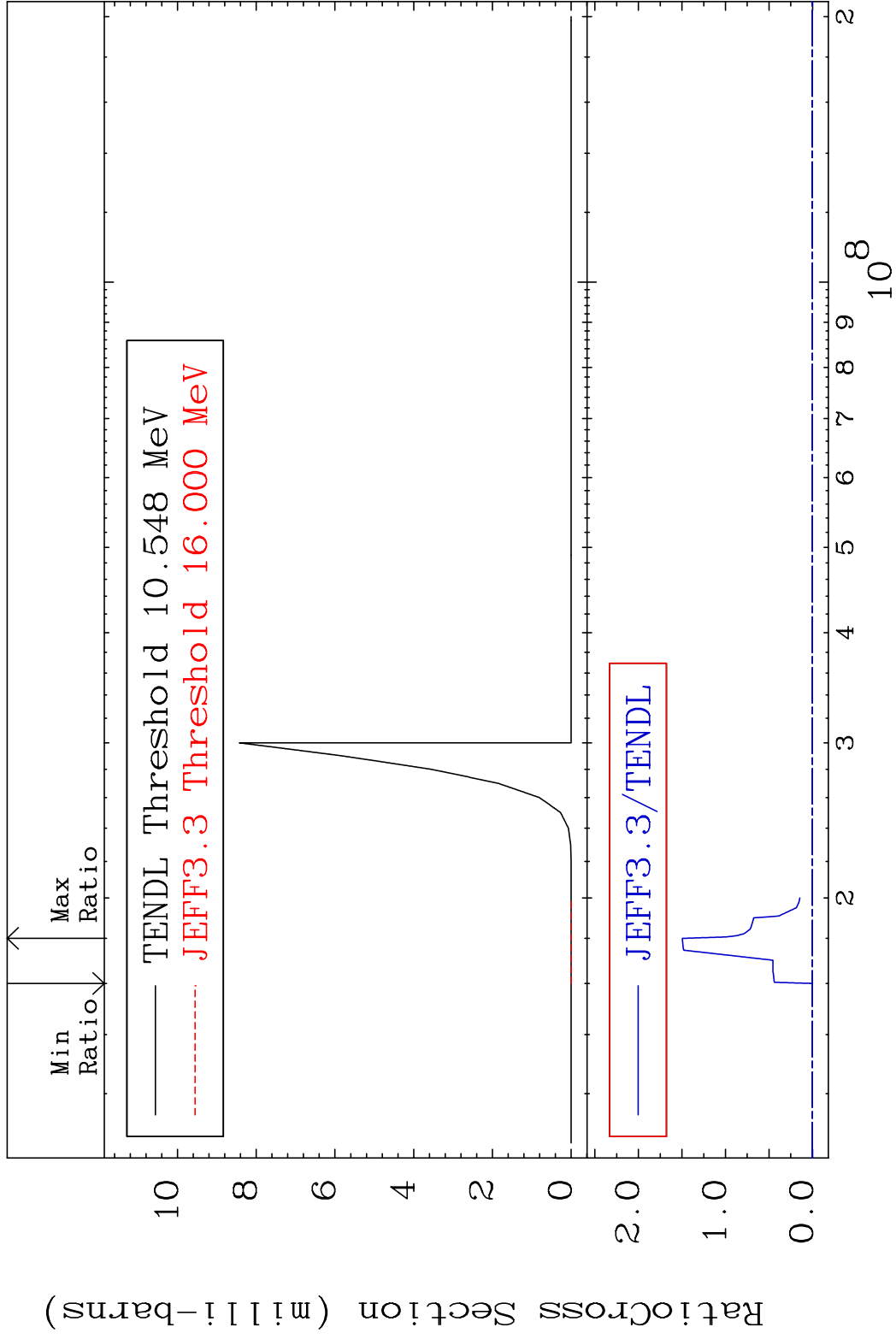


MAT 5925

(n,2n) α

59-Pr-141

Cross Section -100.0 To 9999. %

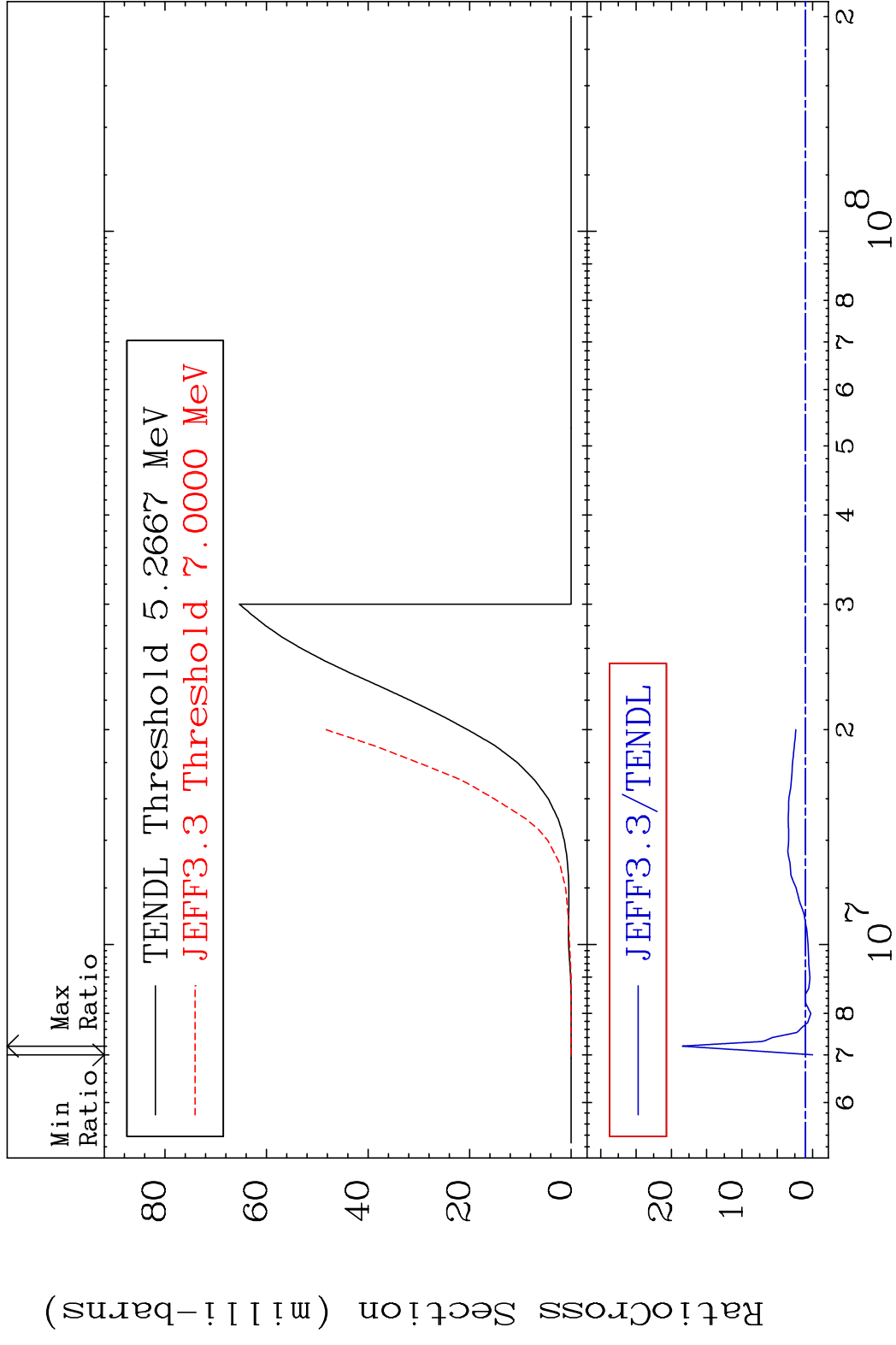


MAT 5925

(n, n') p

59-Pr-141

Cross Section -100.0 To 1744. %

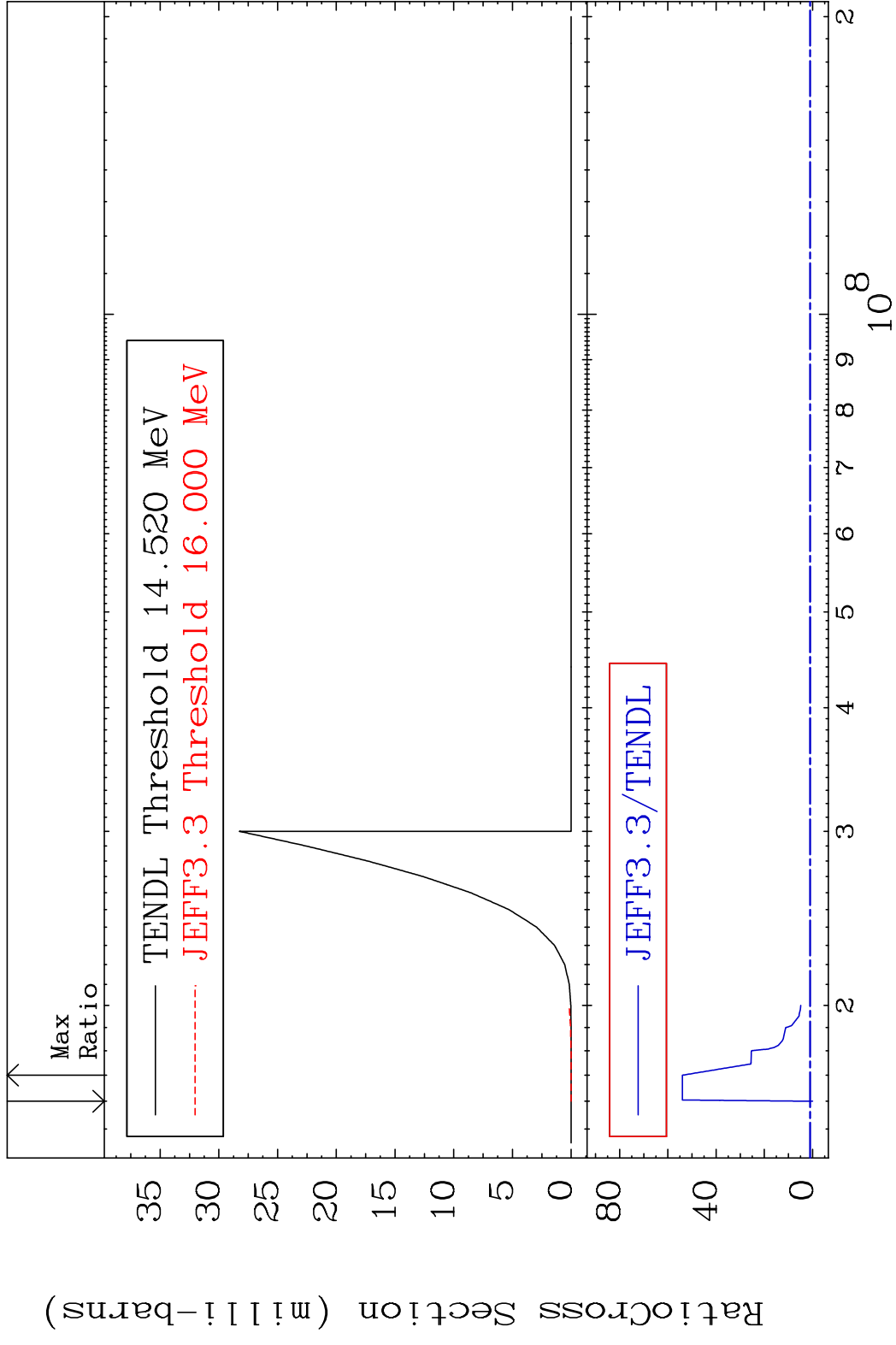


MAT 5925

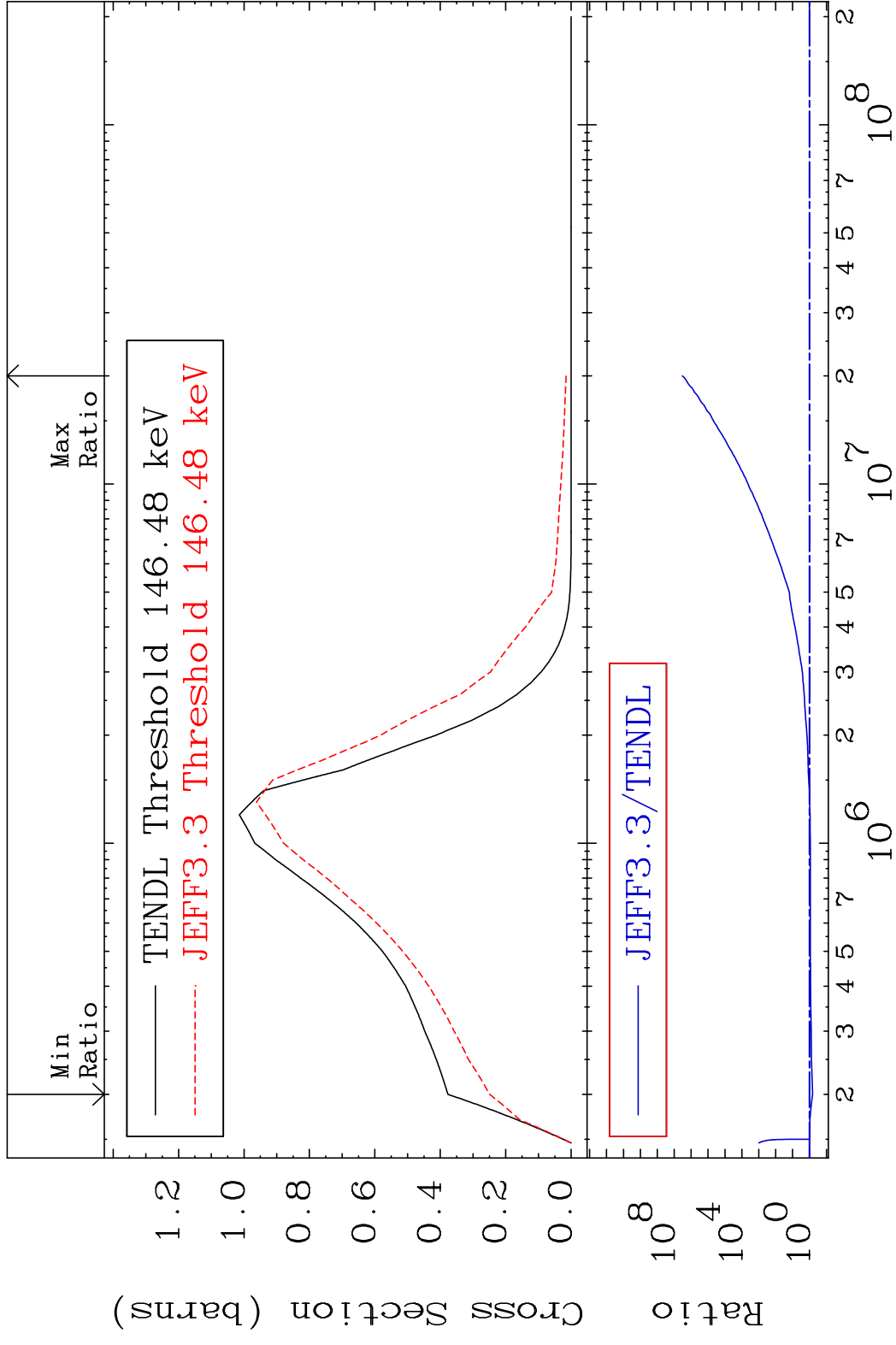
(n,2n) p

59-Pr-141

Cross Section -100.0 To 5300. %

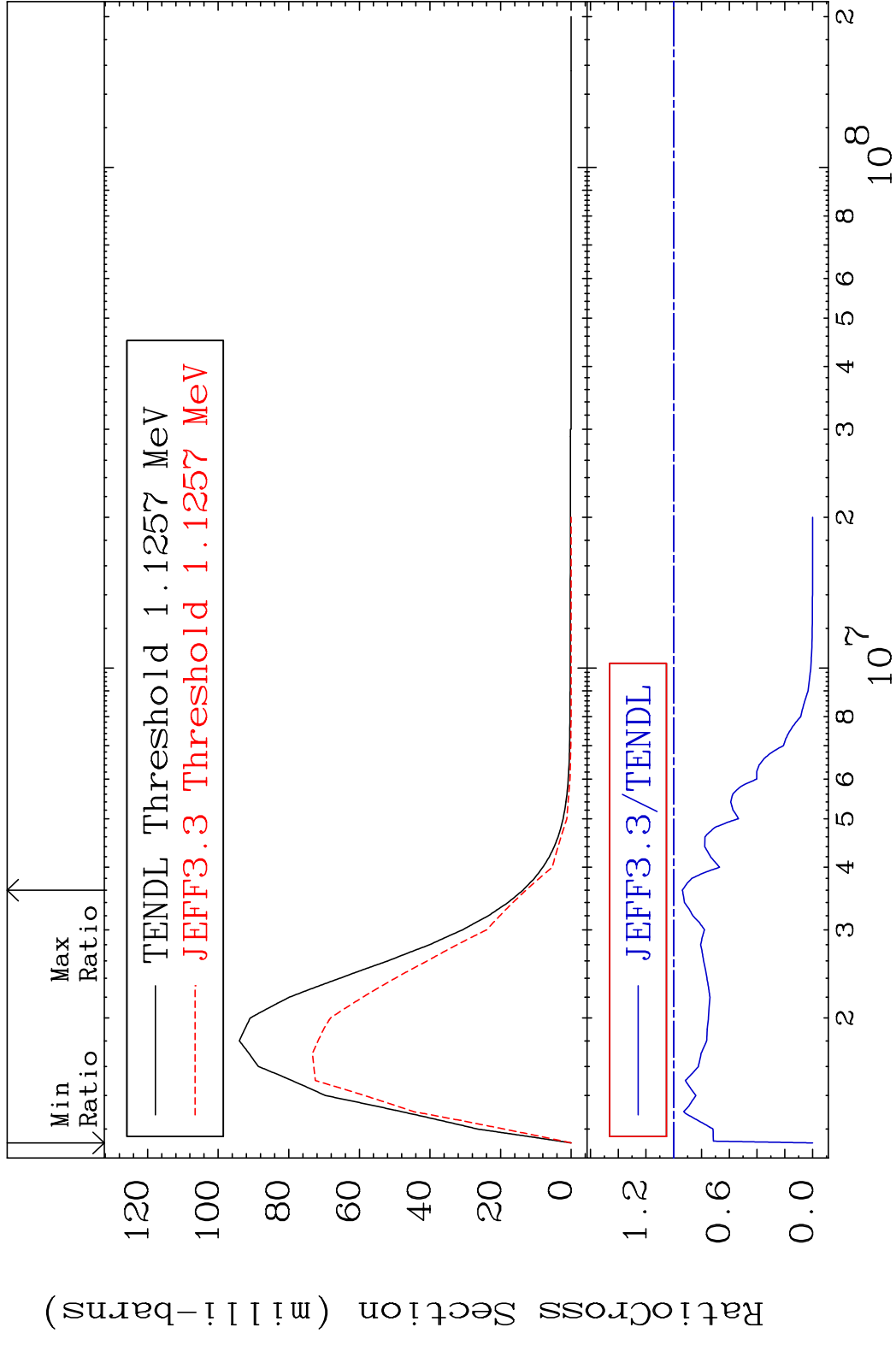


MAT 5925 MT= 51 (n,n') Level 59-Pr-141
 Cross Section -33.81 To 9999. %

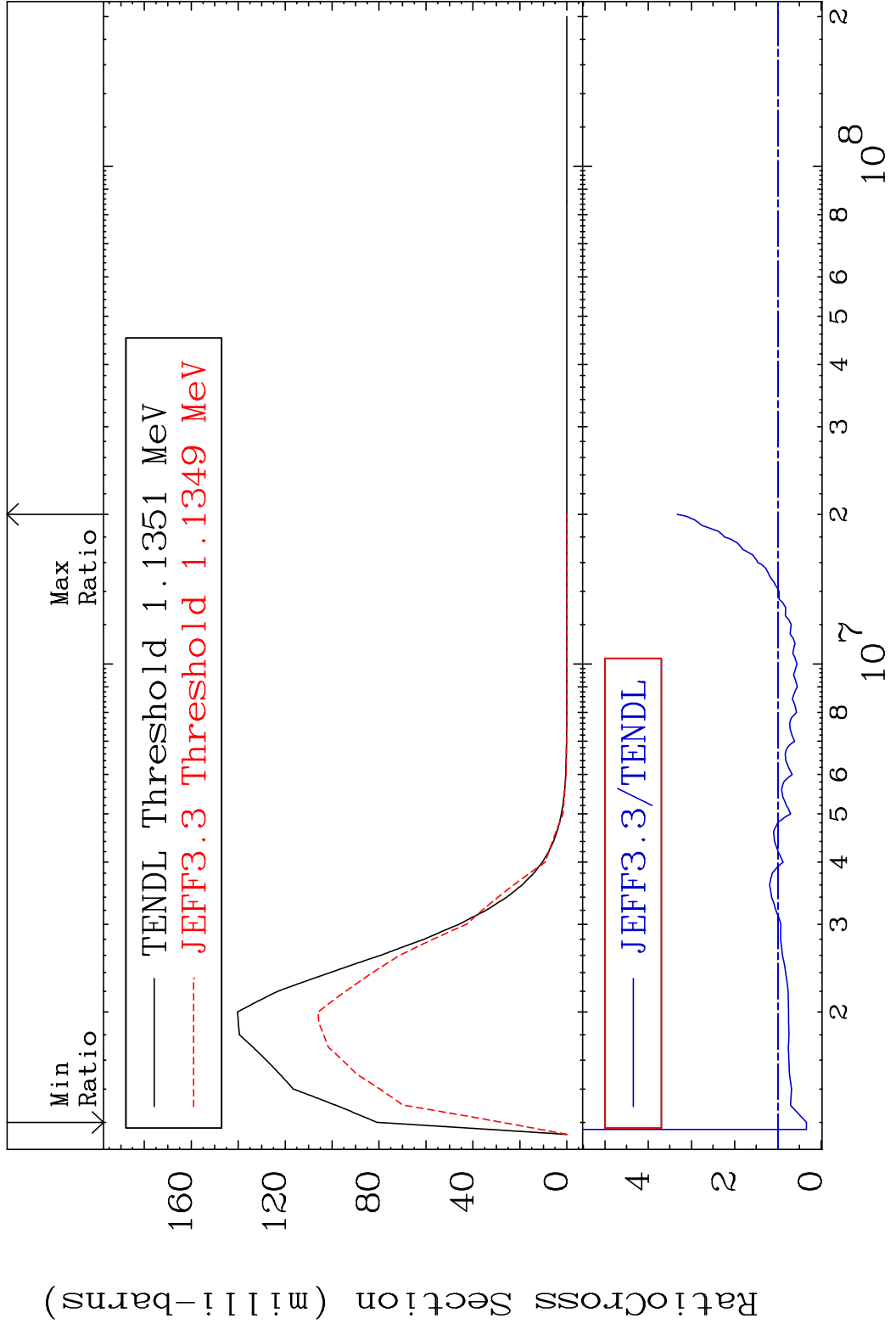


10 Incident Energy (eV) 59-Pr-141

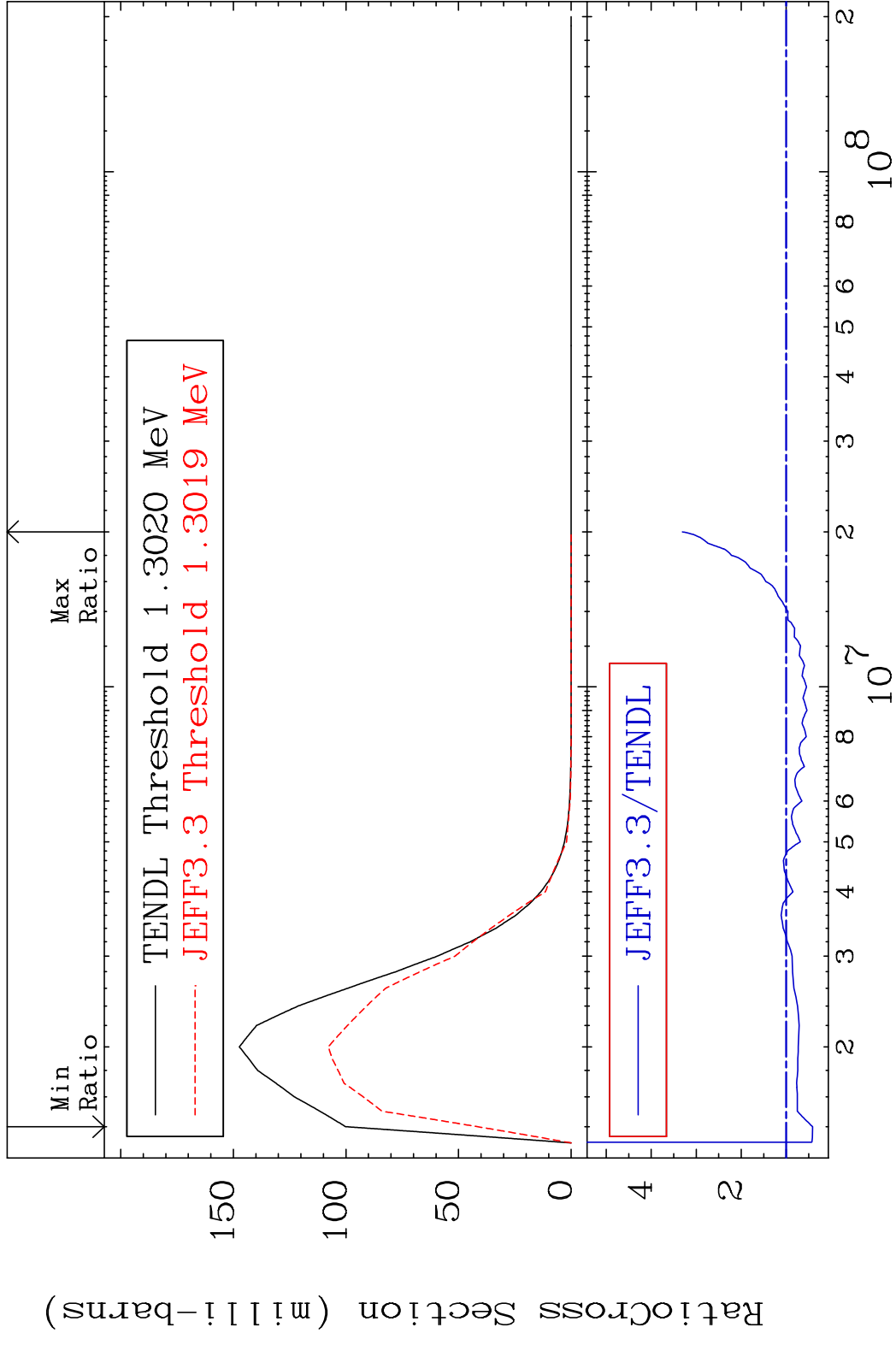
MAT 5925 MT= 52 (n, n') Level 59-Pr-141
 Cross Section -100.0 To -6.203%



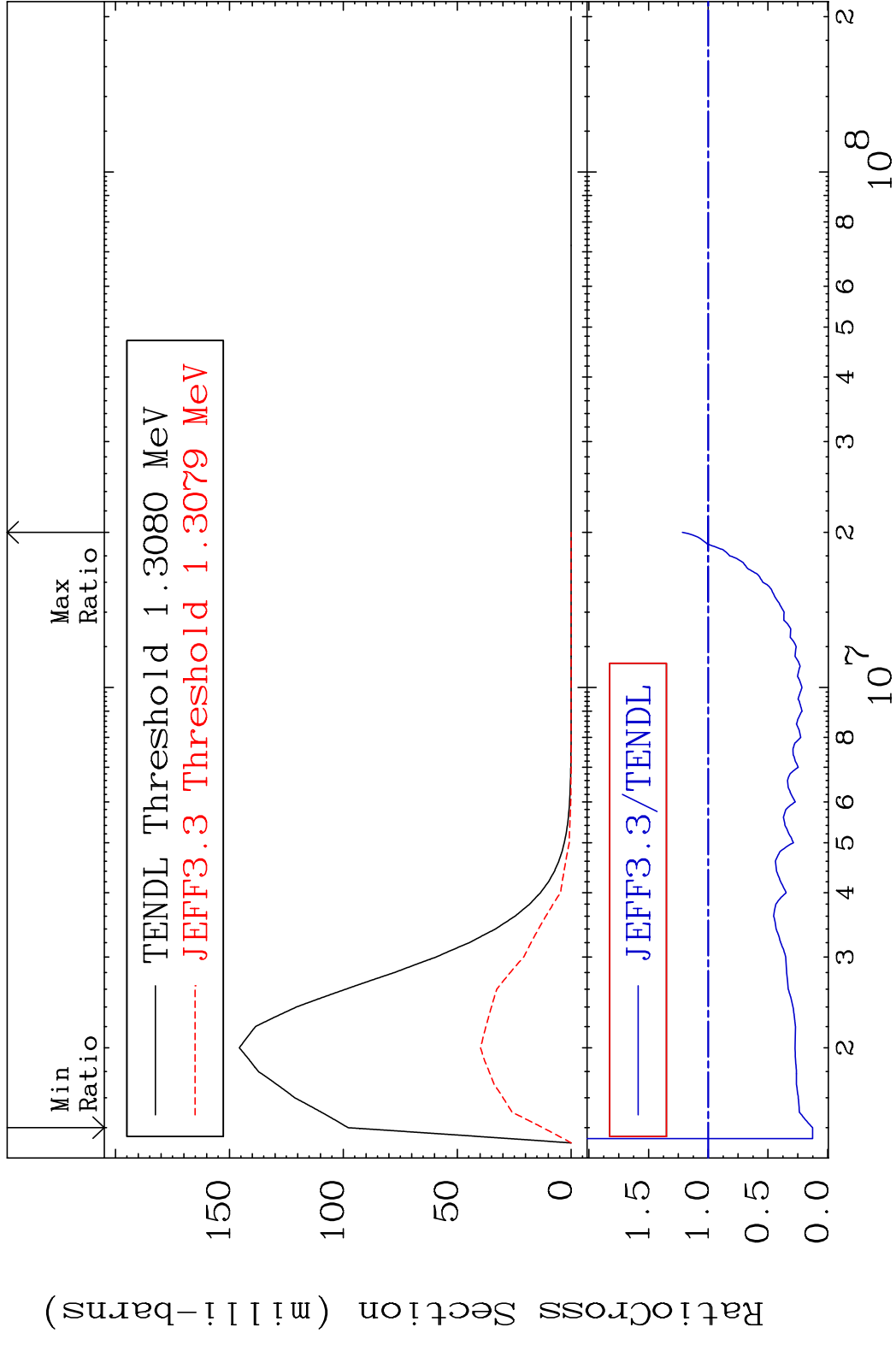
MAT 5925 MT= 53 (n, n') Level 59-Pr-141
 Cross Section -65.89 To 233.0 %



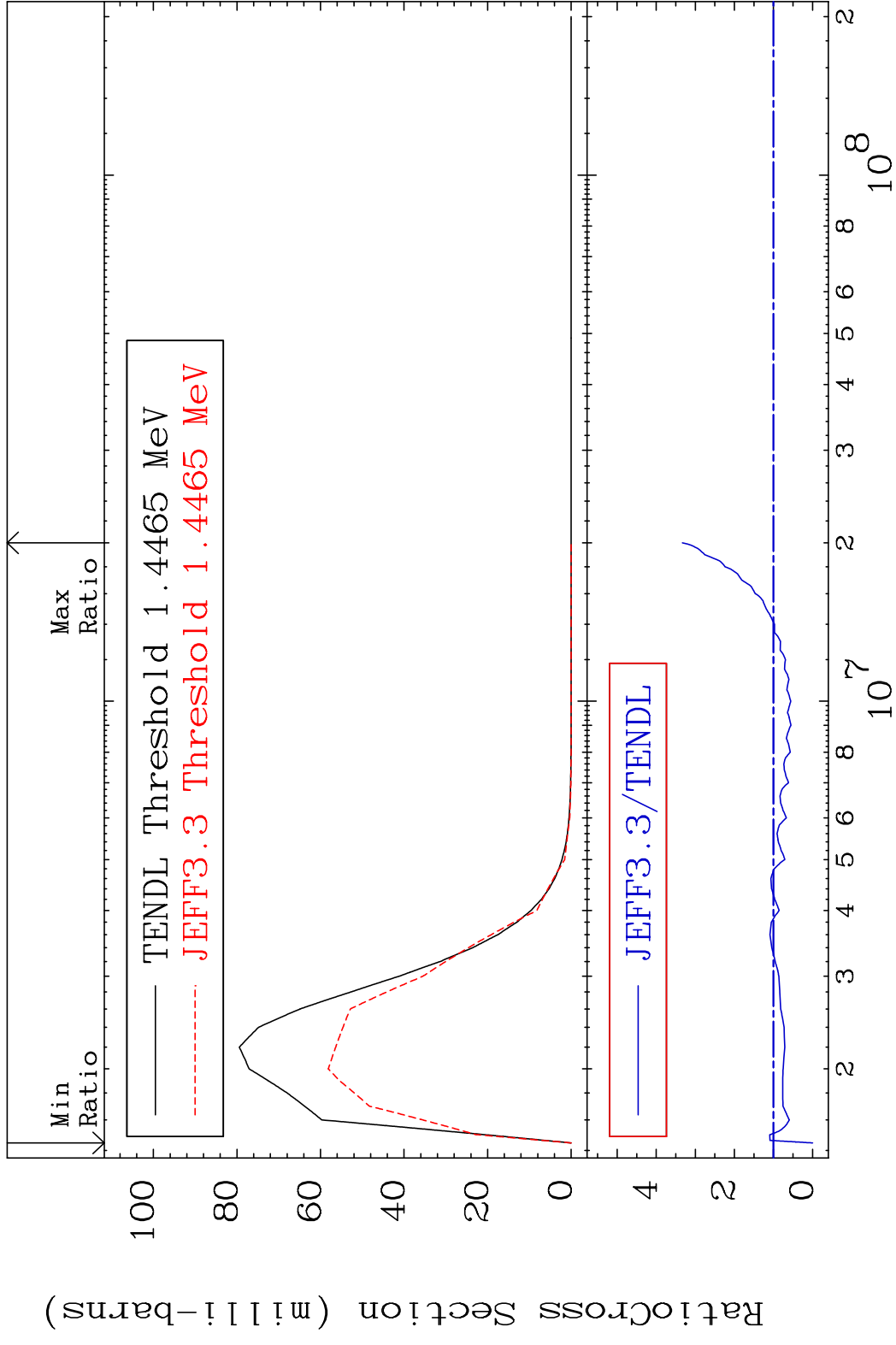
MAT 5925 MT= 54 (n, n') Level 59-Pr-141
 Cross Section -58.48 To 230.8 %



MAT 5925 MT= 55 (n, n') Level 59-Pr-141
 Cross Section -87.29 To 21.69 %



MAT 5925 MT= 56 (n, n') Level 59-Pr-141
 Cross Section -100.0 To 233.2 %

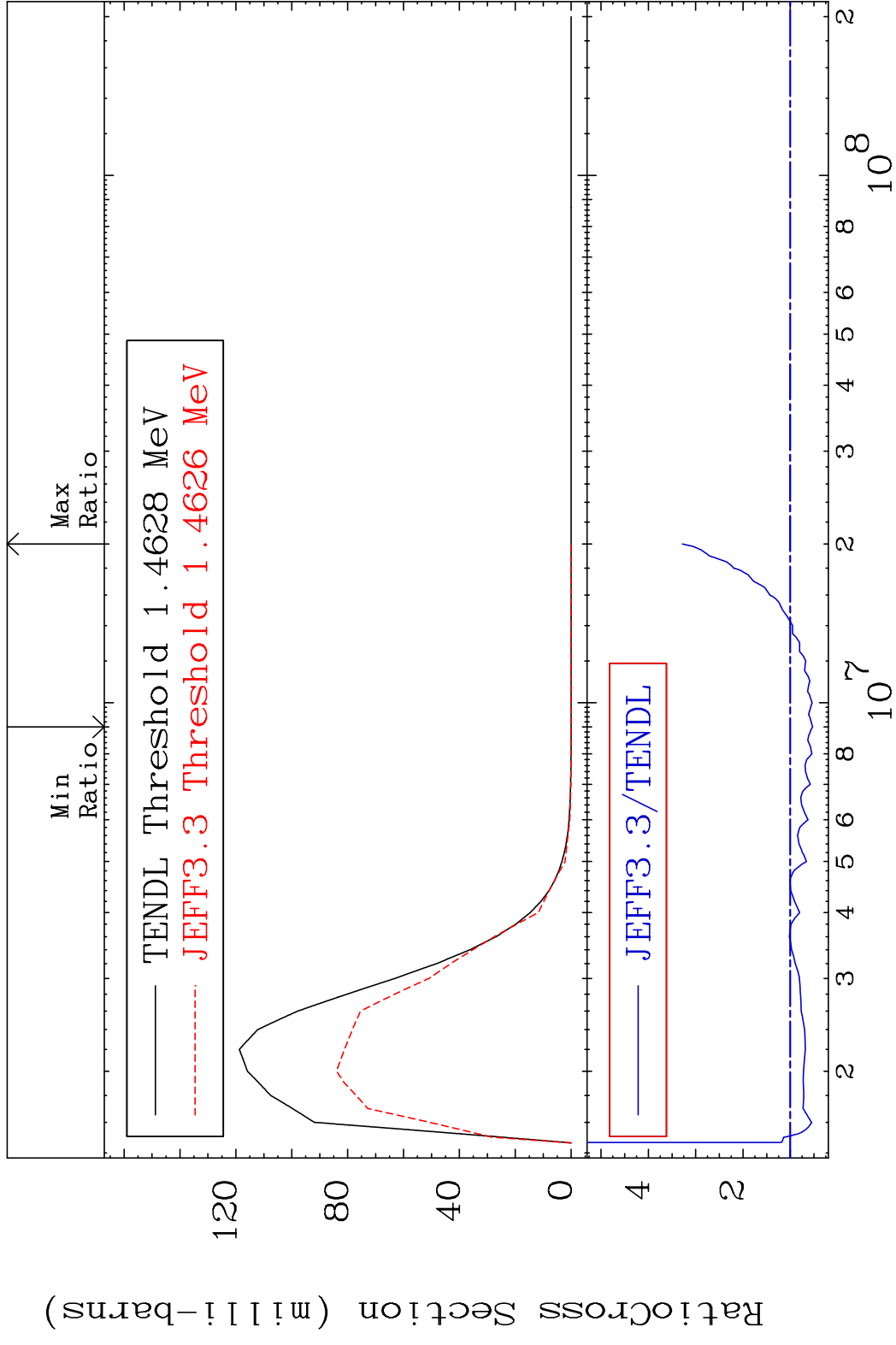


MAT 5925

MT= 57 (n, n') Level

59-Pr-141

Cross Section -46.89 To 228.2 %

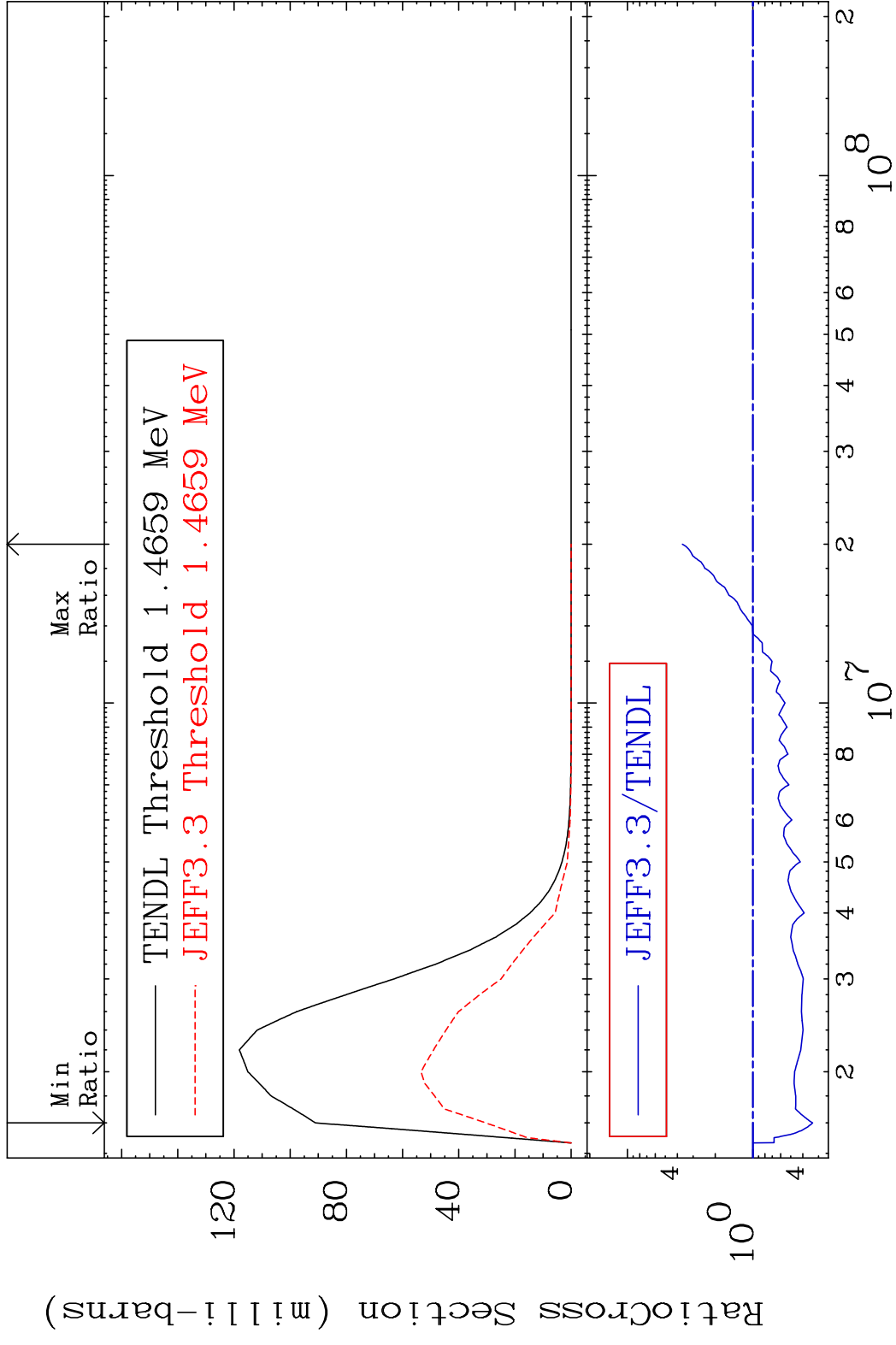


MAT 5925

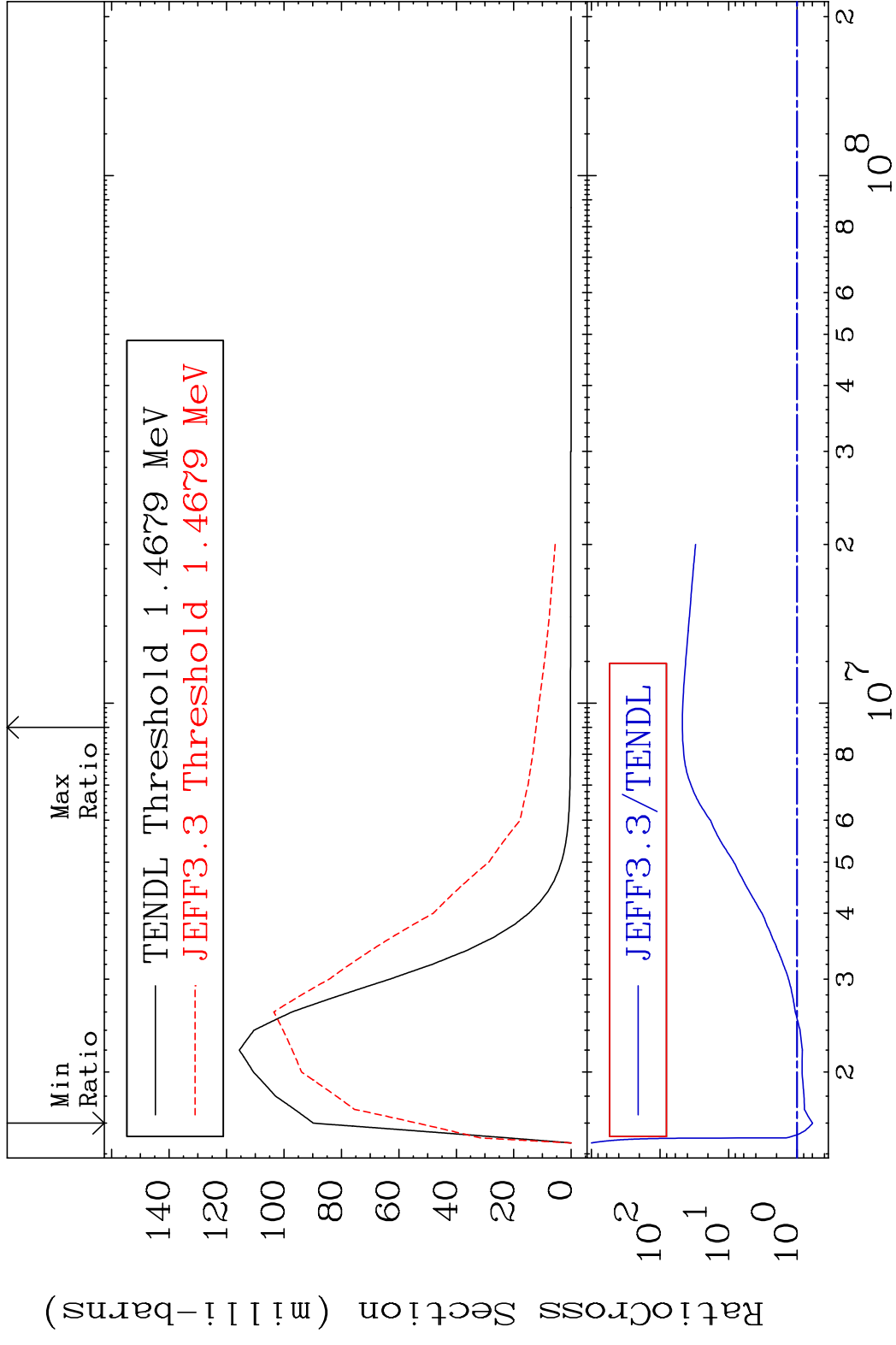
MT= 58 (n, n') Level

59-Pr-141

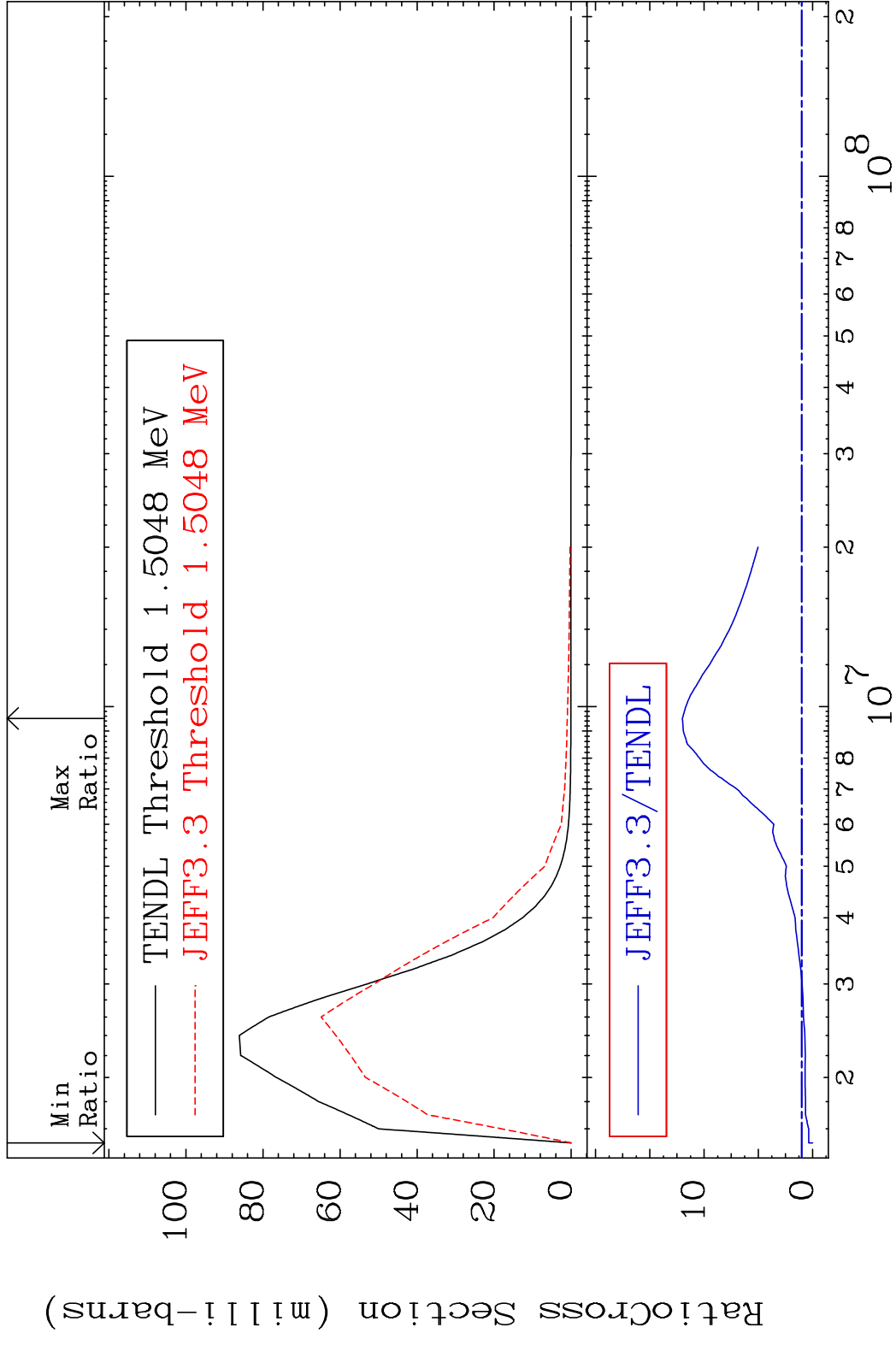
Cross Section -66.57 To 265.1 %



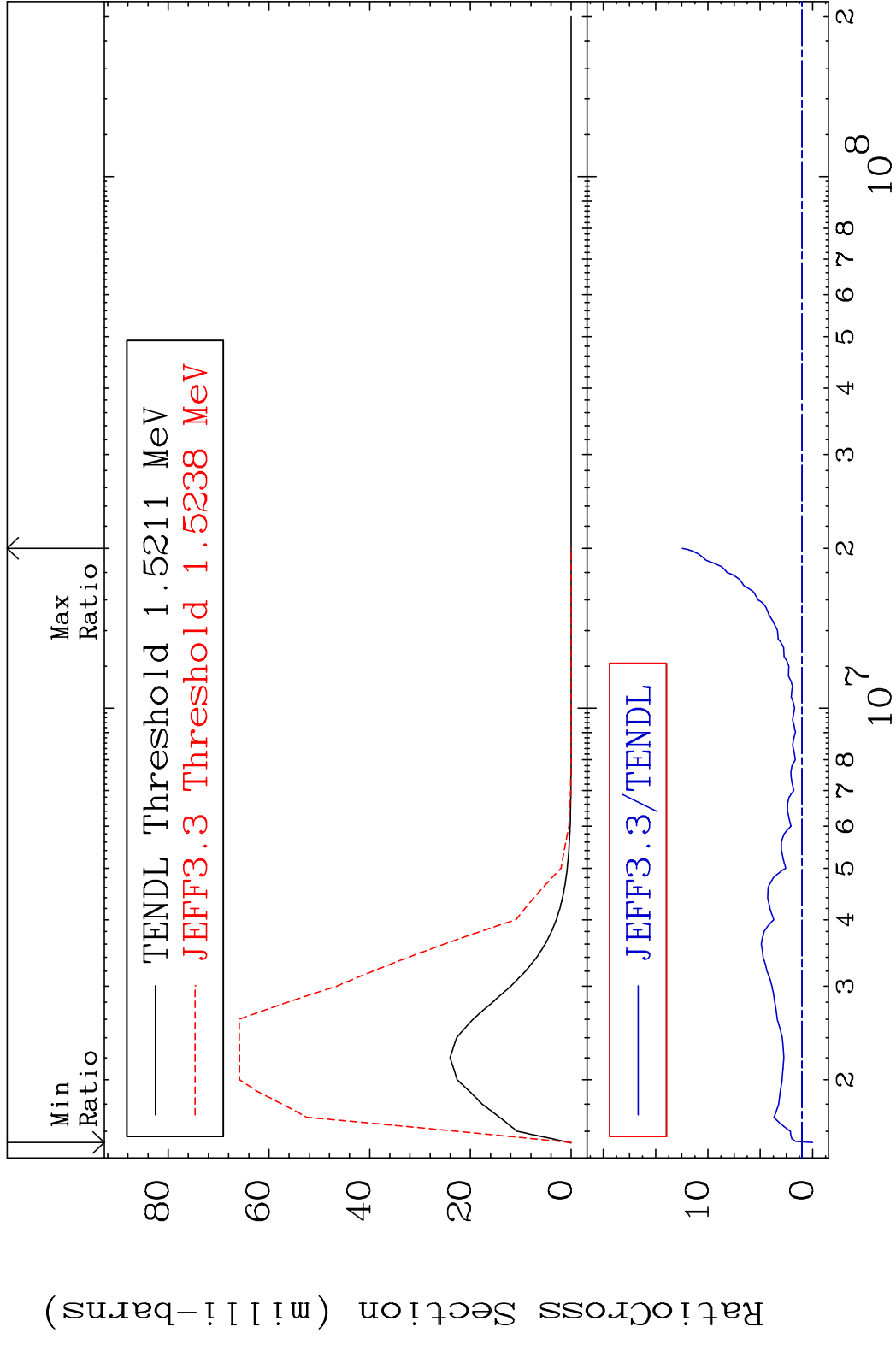
MAT 5925 MT= 59 (n,n') Level 59-Pr-141
 Cross Section -40.36 To 4624. %



MAT 5925 MT= 60 (n,n') Level 59-Pr-141
 Cross Section -100.0 To 1100. %

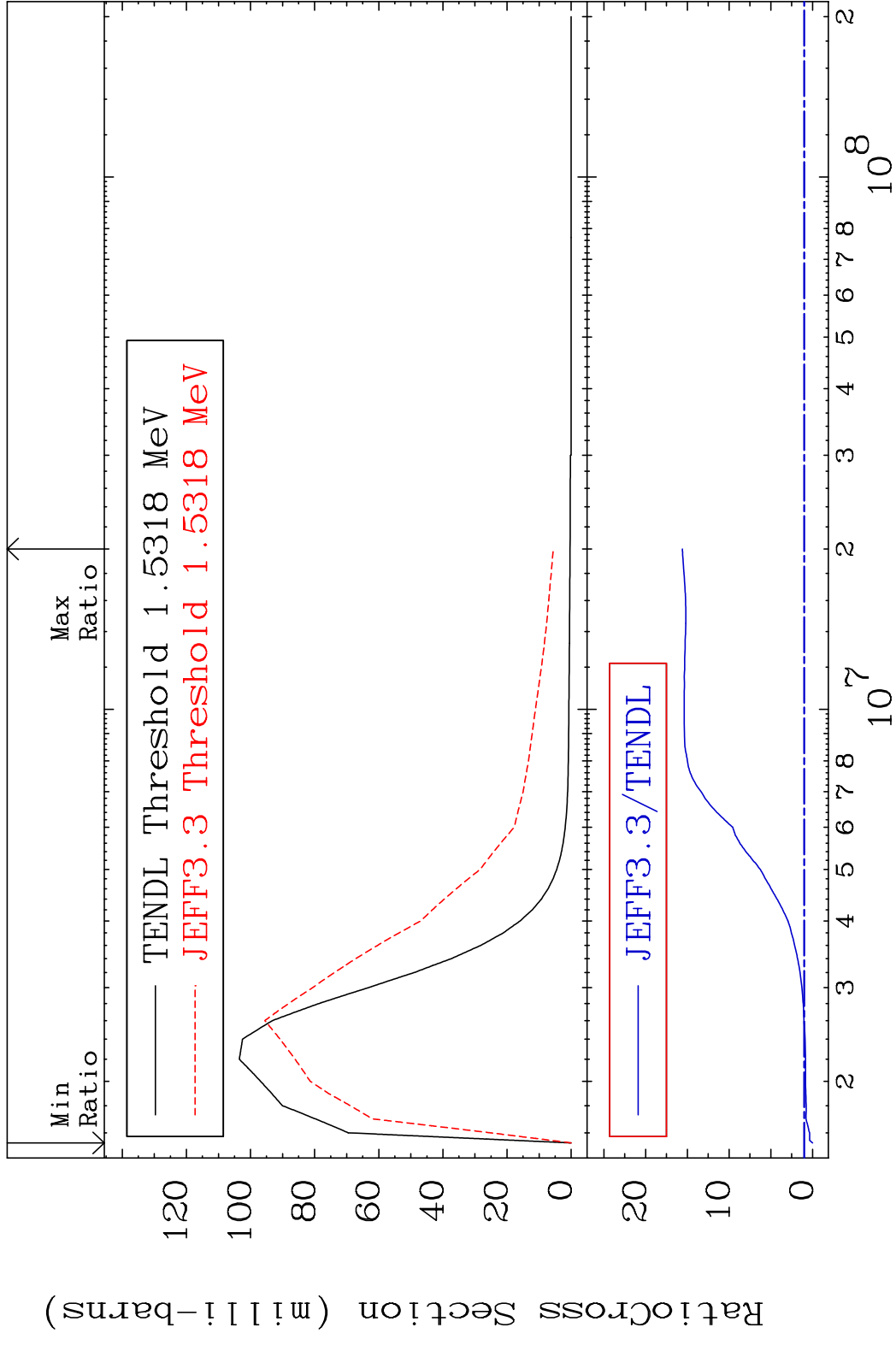


MAT 5925 MT= 61 (n, n') Level 59-Pr-141
 Cross Section -100.0 To 1144. %

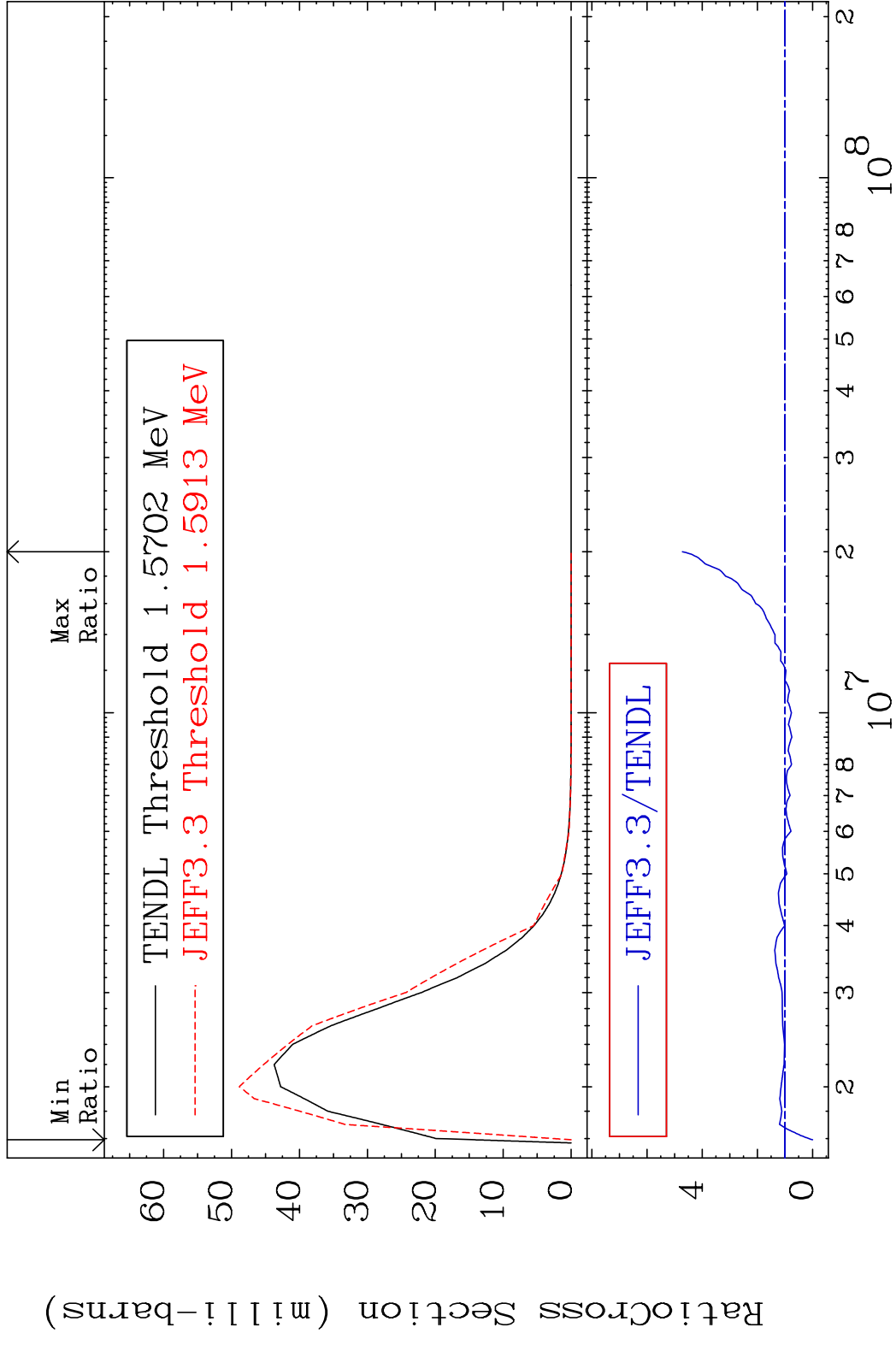


20 Incident Energy (eV) 59-Pr-141

MAT 5925 MT= 62 (n, n') Level 59-Pr-141
 Cross Section -100.0 To 1460. %



MAT 5925 MT= 63 (n, n') Level 59-Pr-141
 Cross Section -100.0 To 371.9 %

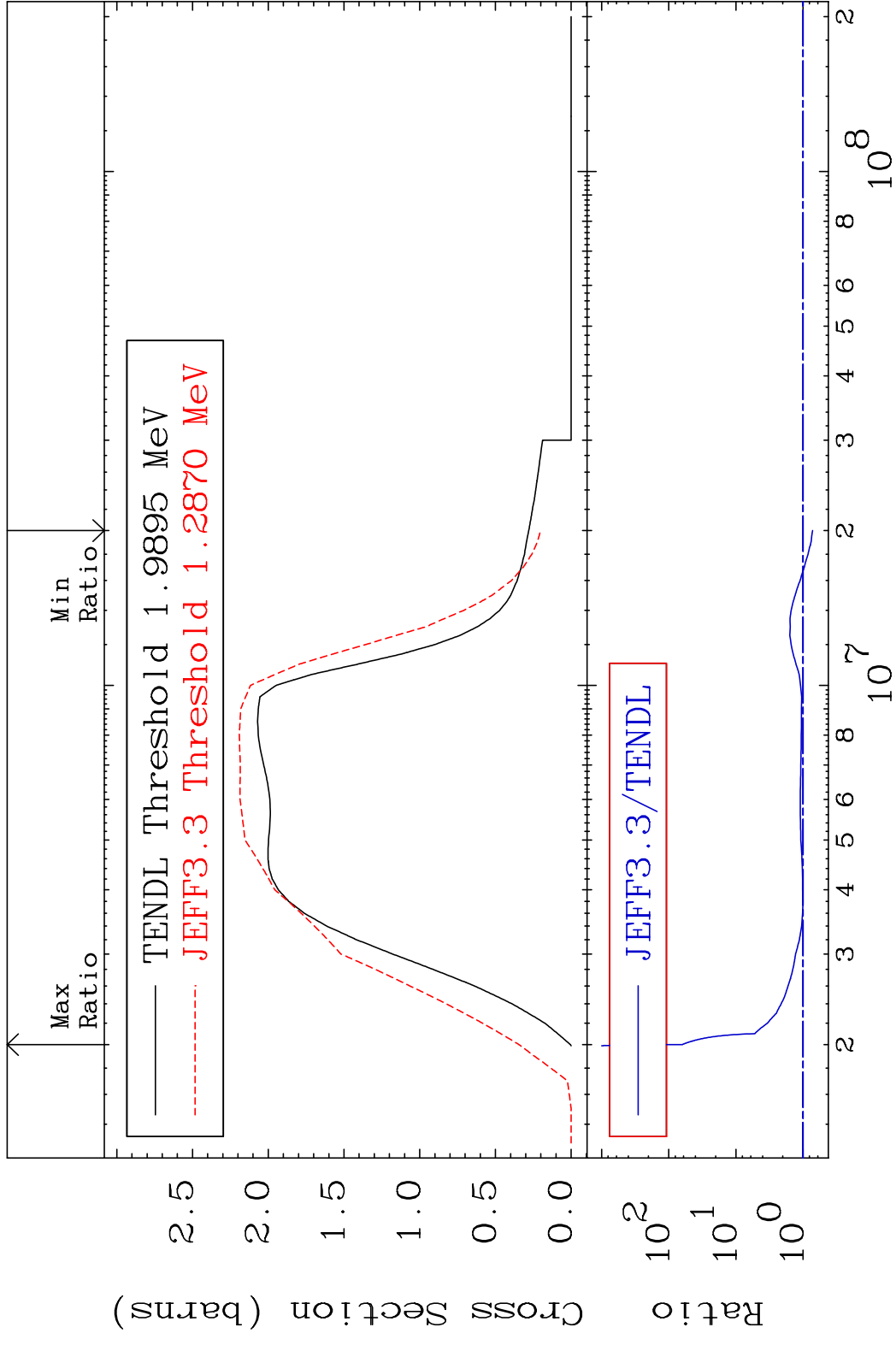


MAT 5925

(n, n') Continuum

59-Pr-141

Cross Section -27.93 To 6167. %

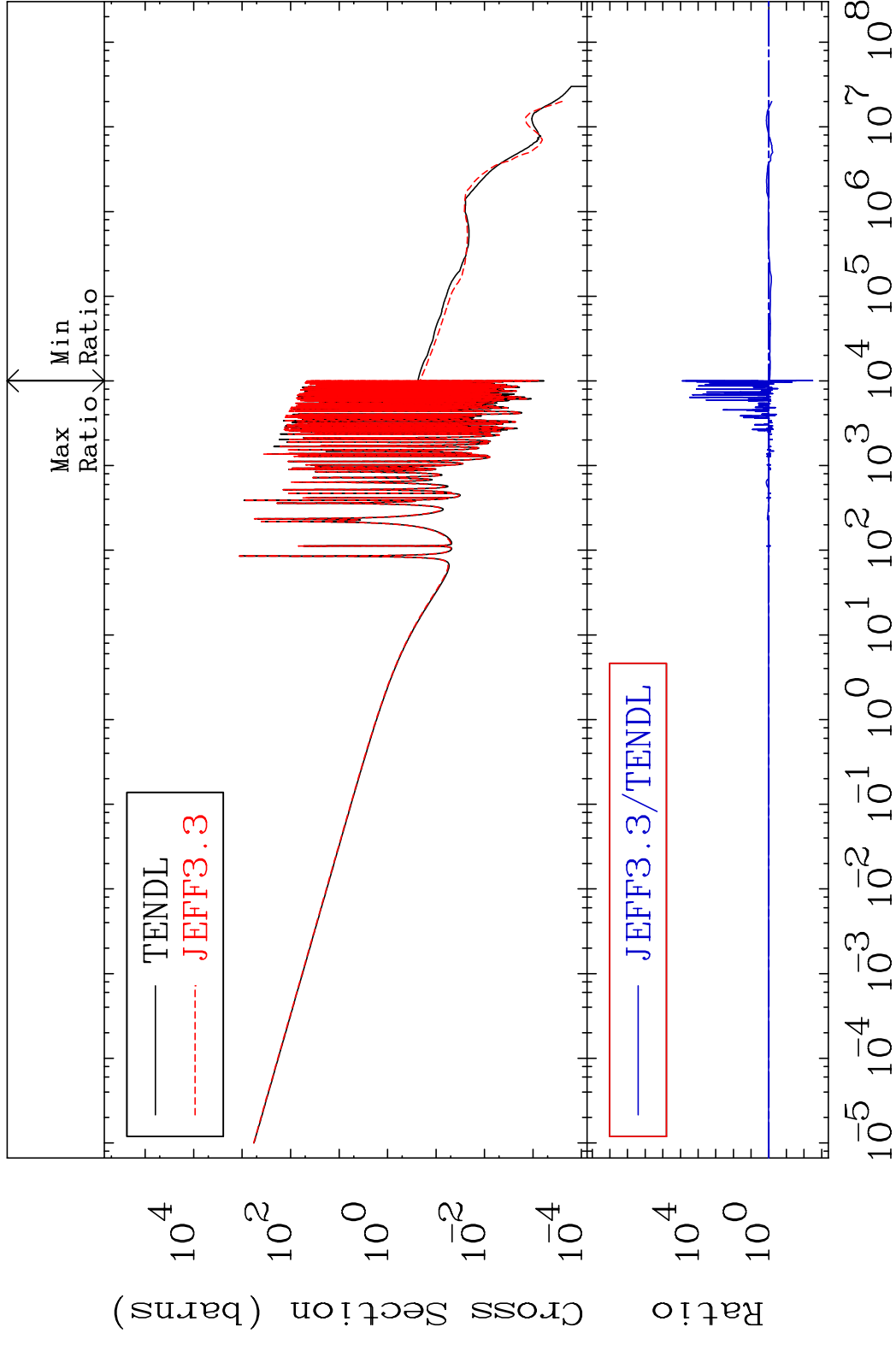


MAT 5925

(n, γ)

59-Pr-141

Cross Section -99.67 To 9999. %

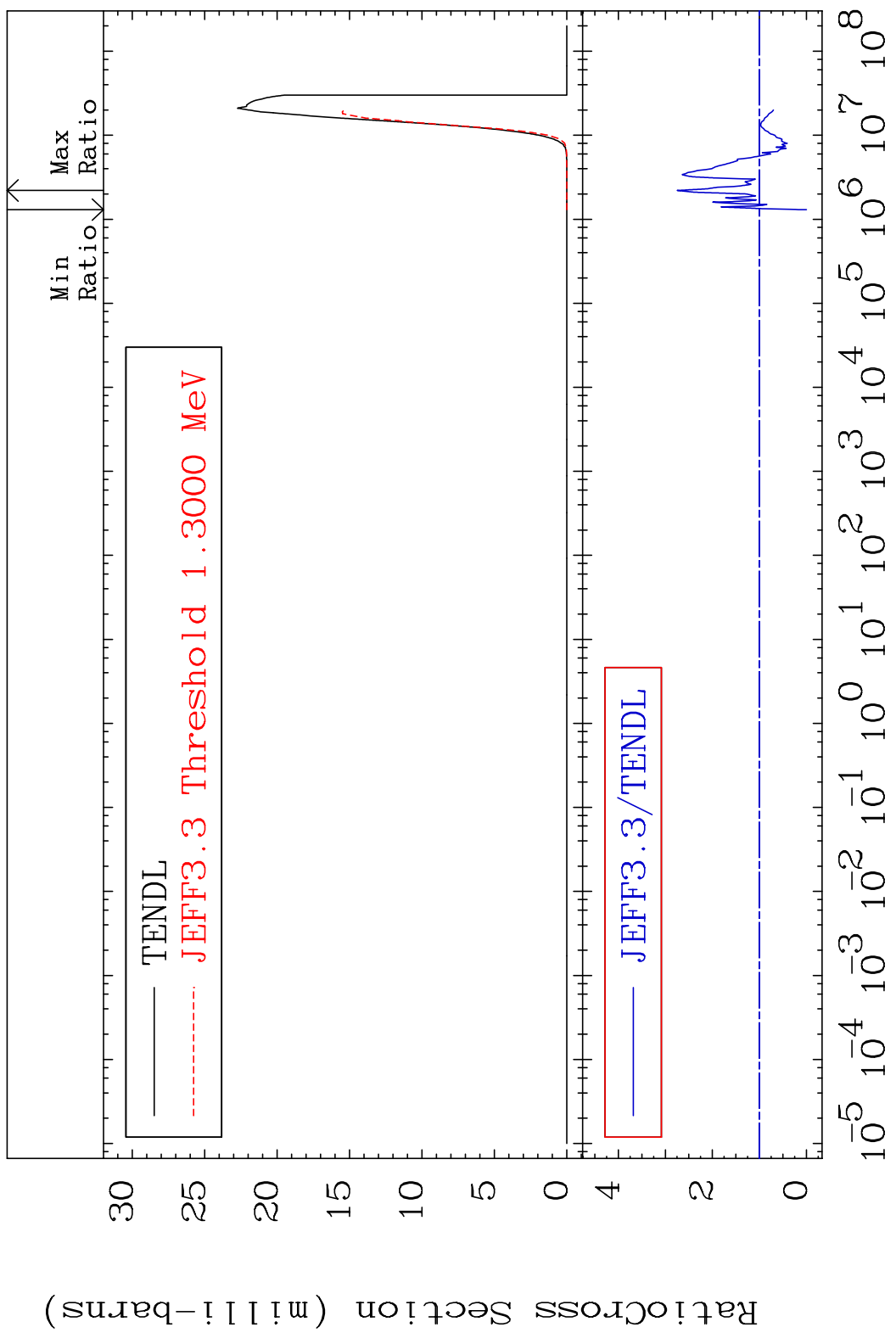


MAT 5925

(n, p)

59-Pr-141

Cross Section -100.0 To 174.8 %



25

Incident Energy (eV)

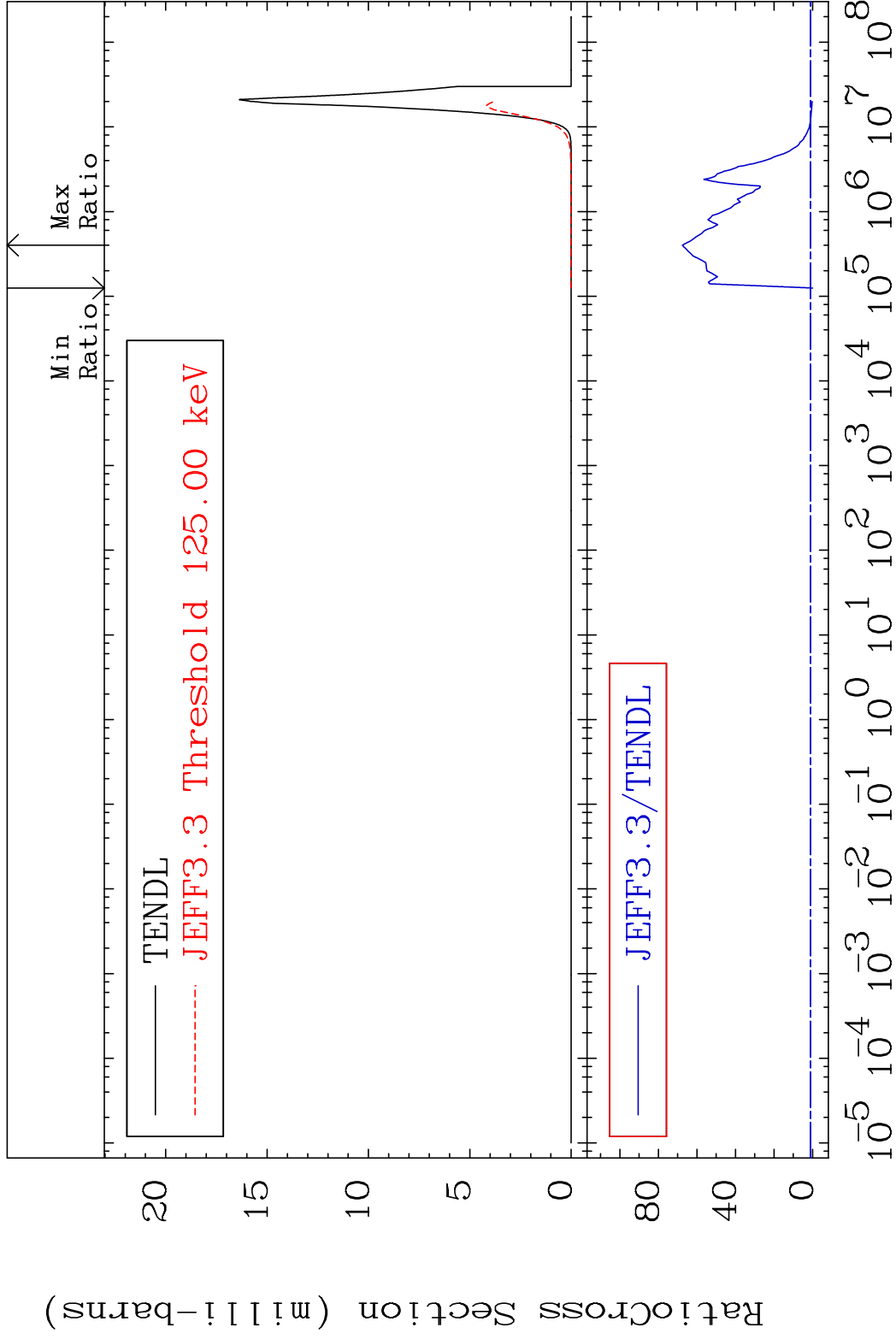
59-Pr-141

MAT 5925

(n, α)

59-Pr-141

Cross Section -100.0 To 6658. %



26

Incident Energy (eV)

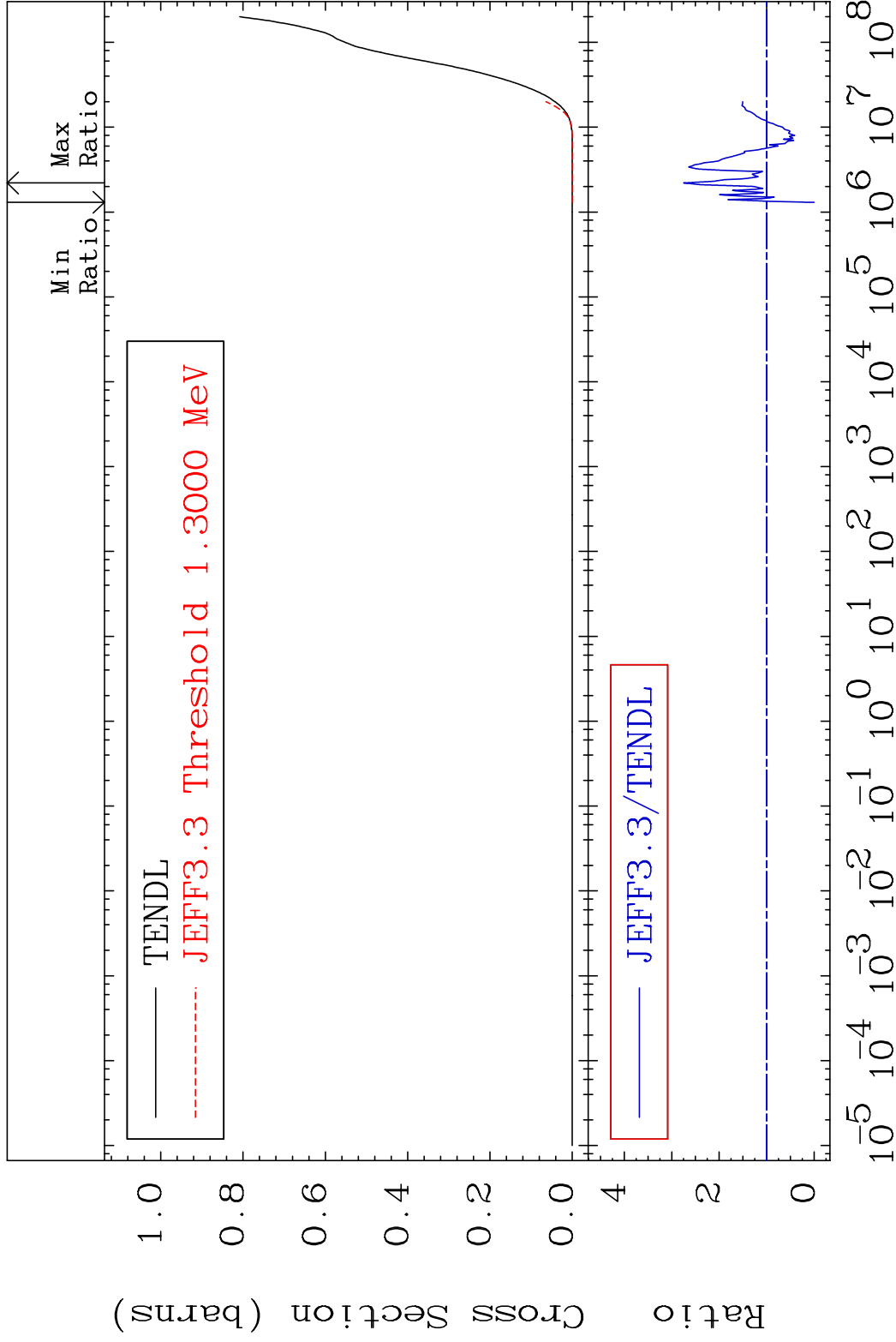
59-Pr-141

MAT 5925

Hydrogen Production

59-Pr-141

Cross Section -100.0 To 174.8 %



27

Incident Energy (eV)

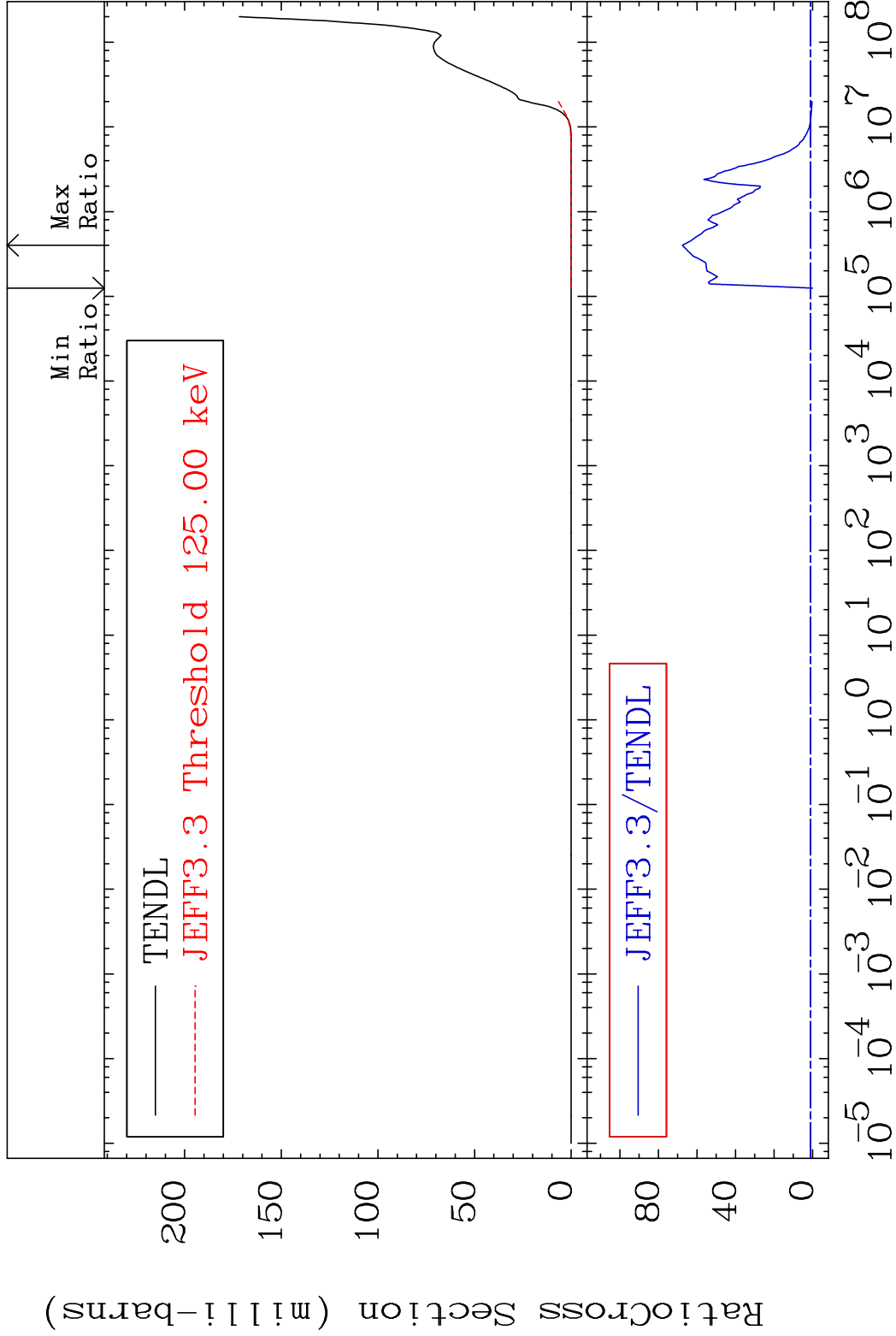
59-Pr-141

MAT 5925

He-4 Production

59-Pr-141

Cross Section -100.0 To 6658. %

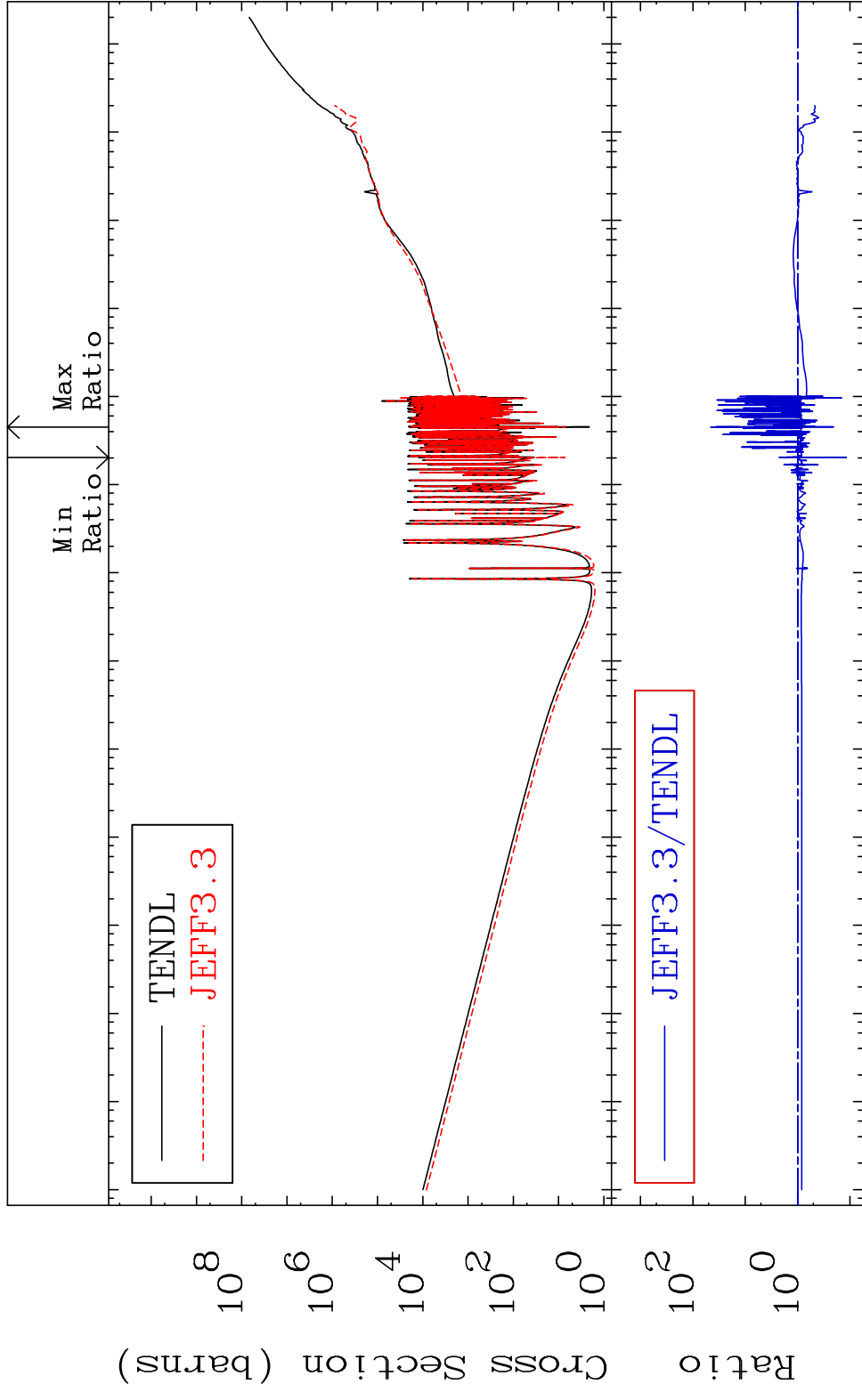


28

Incident Energy (eV)

59-Pr-141

MAT 5925 Kerma total (eV-barns) 59-Pr-141
 Cross Section -88.28 To 4458. %

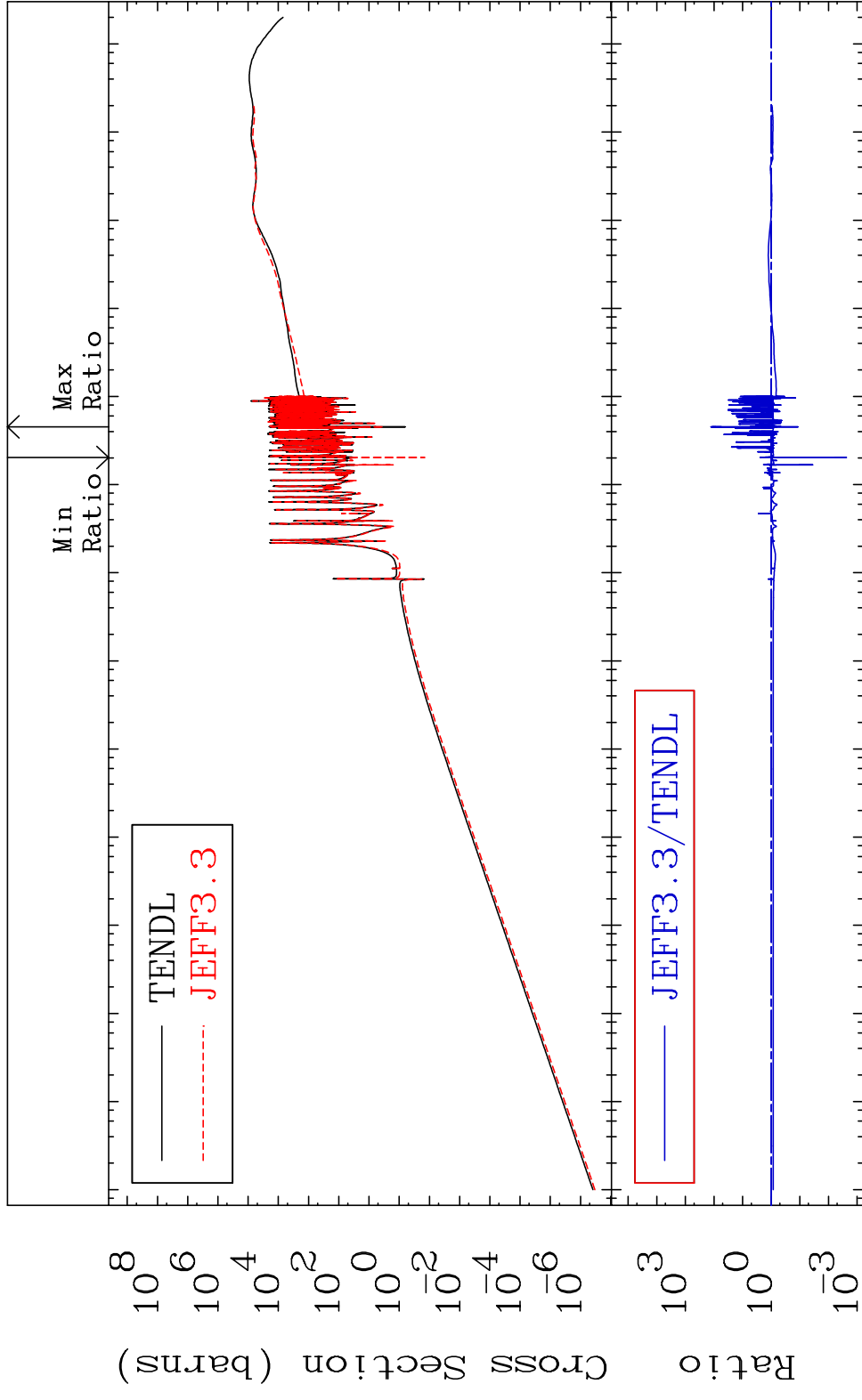


Ratio
 10⁸
 10⁶
 10⁴
 10²
 10⁰
 10²
 10⁰
 10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

MAT 5925

Kerma elastic Cross Section -99.76 To 9999. %

59-Pr-141

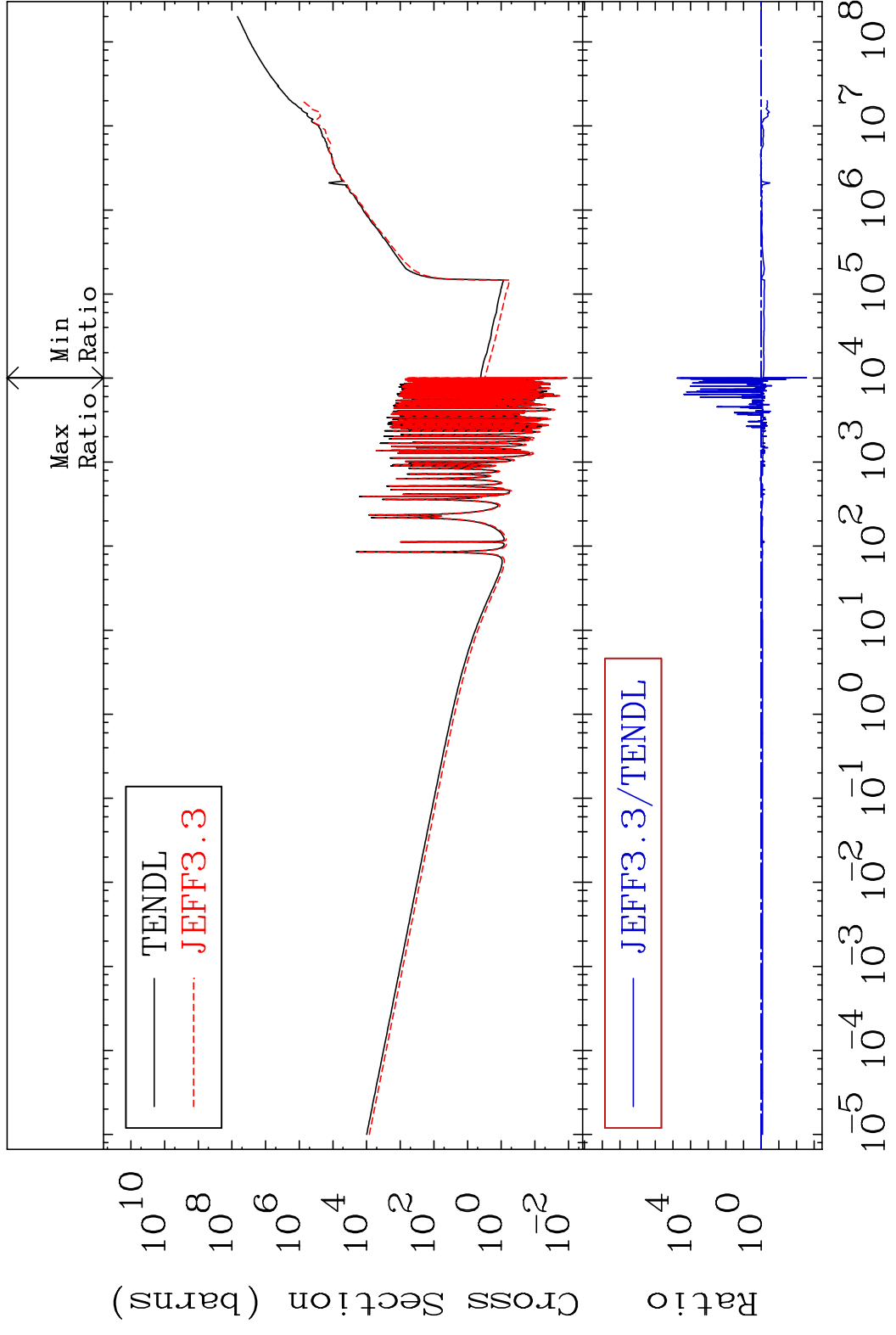


30

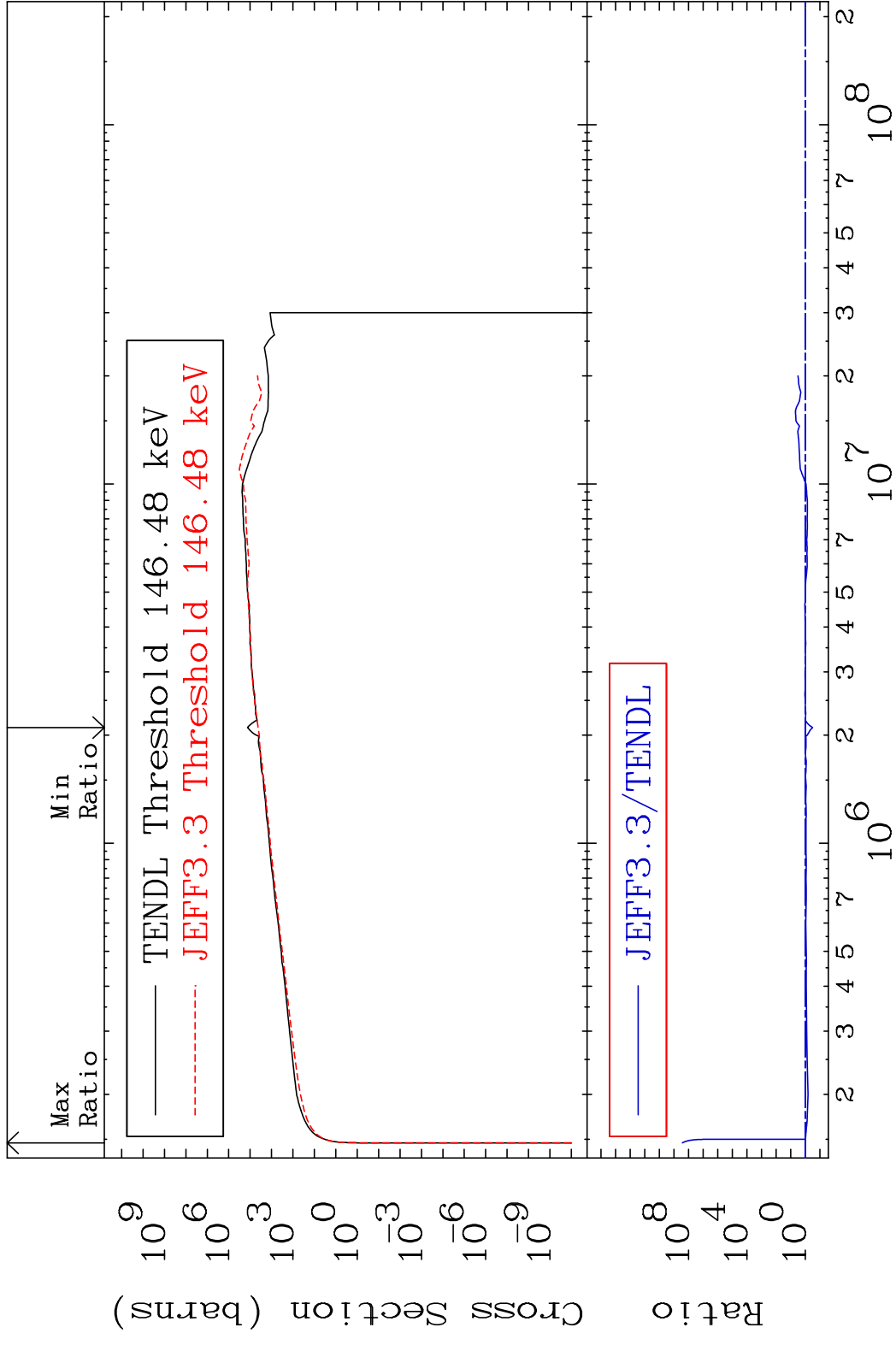
Incident Energy (eV)

59-Pr-141

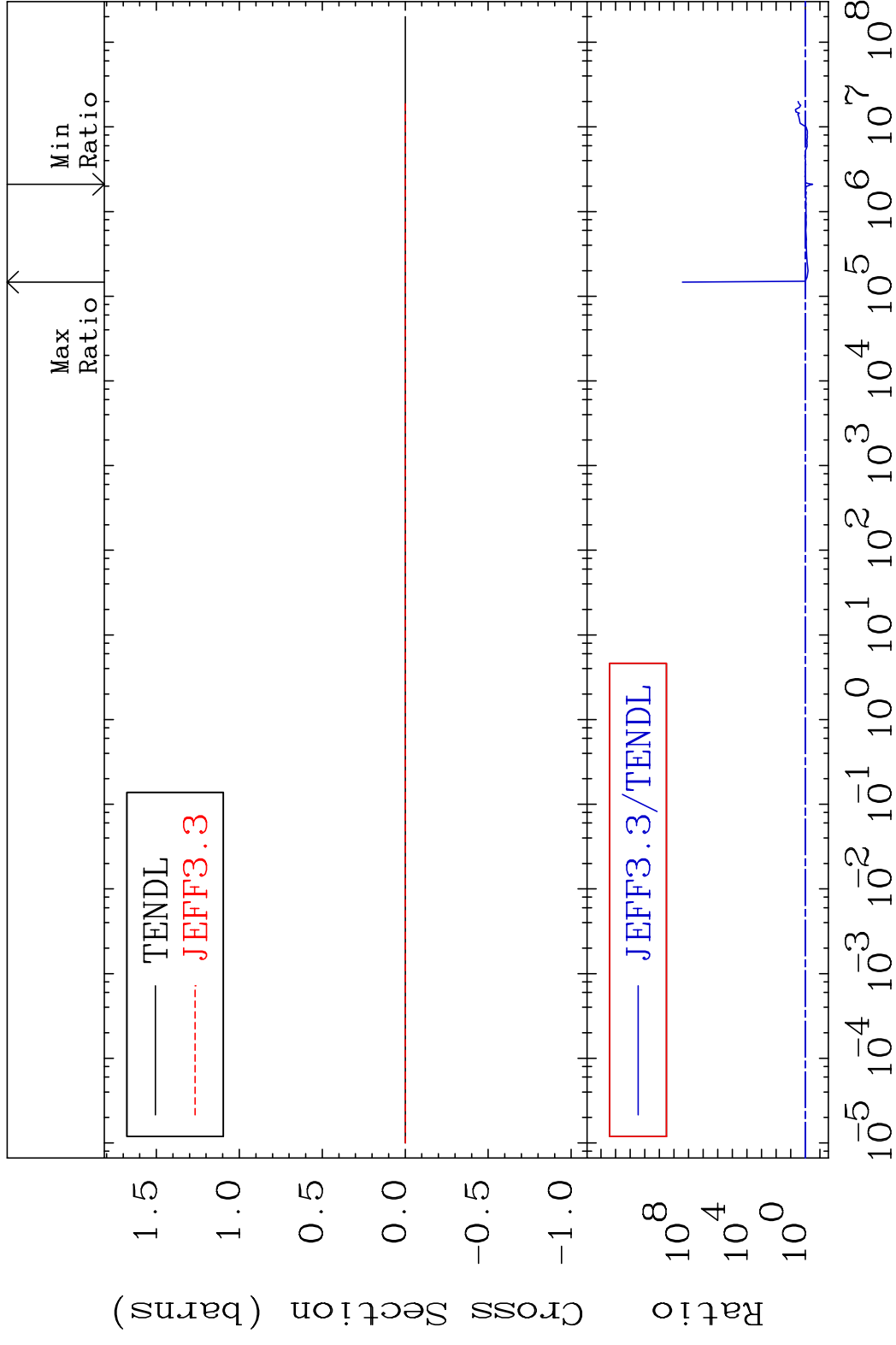
MAT 5925 Kerma non-elastic (all but mt2) 59-Pr-141
 Cross Section -99.73 To 9999. %

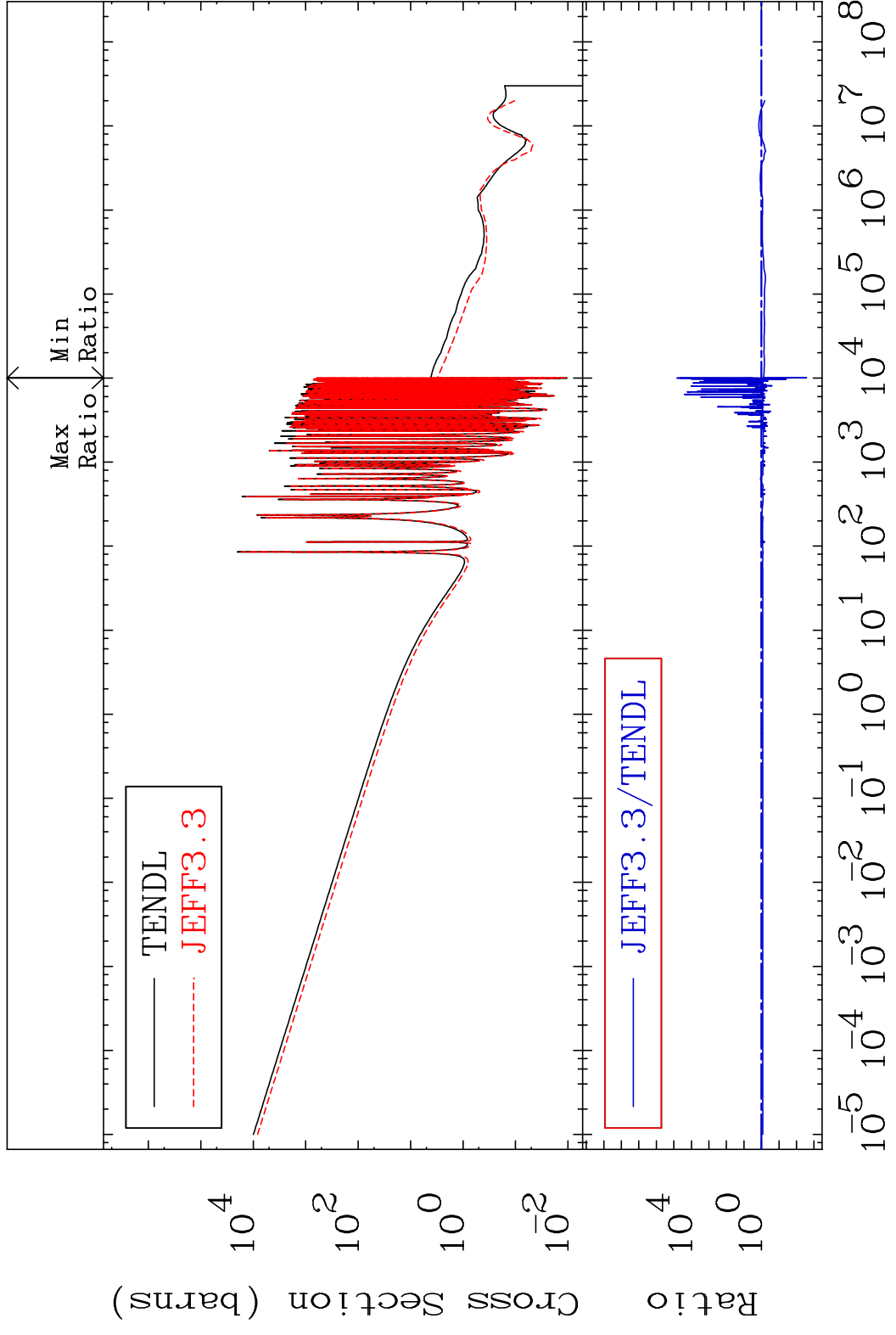


MAT 5925 Kerma inelastic (mt51-91) 59-Pr-141
 Cross Section -67.73 To 9999. %

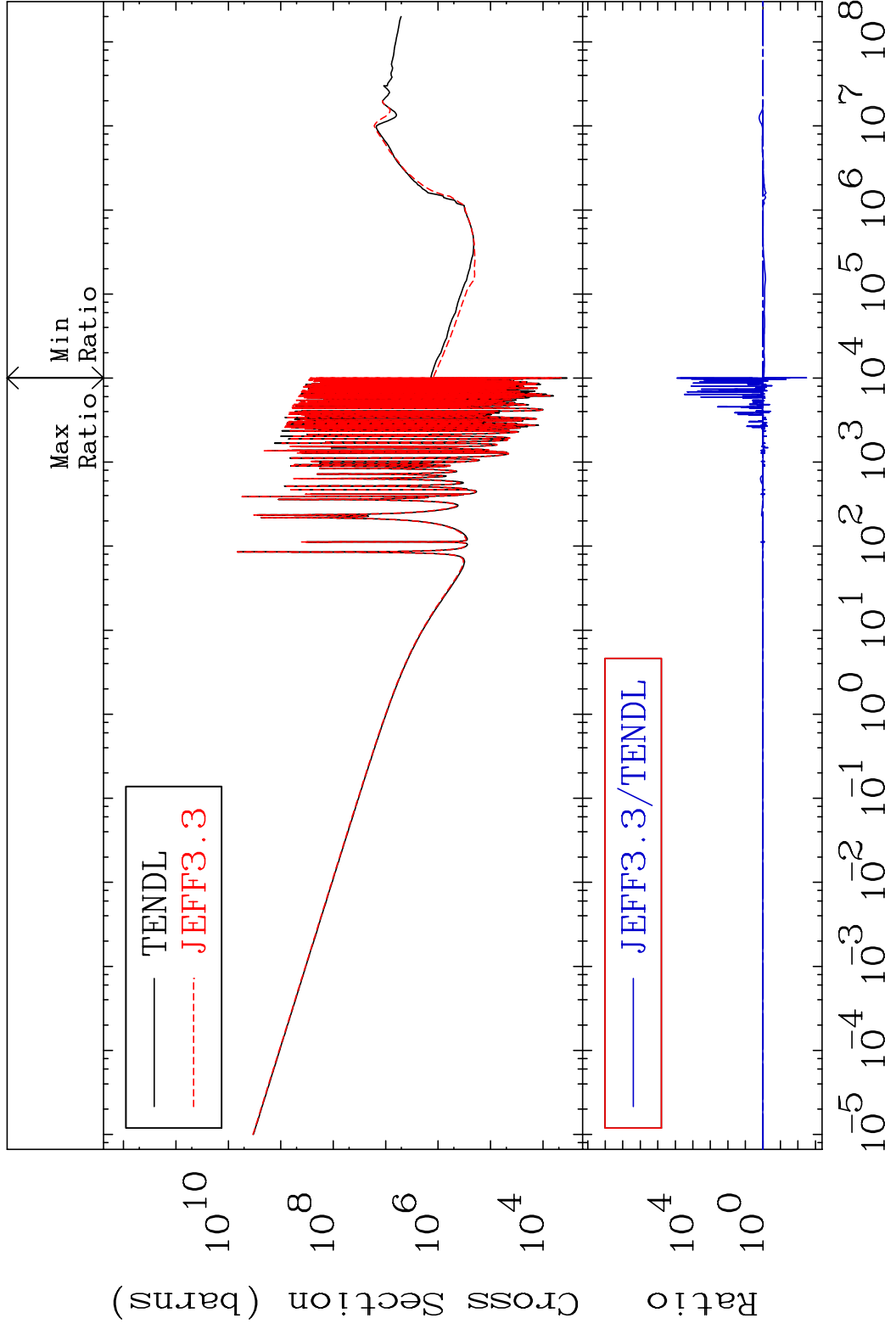


MAT 5925 Kerma fission (mt18 or mt19-20-21-38) 59-Pr-141
 Cross Section -67.73 To 9999. %

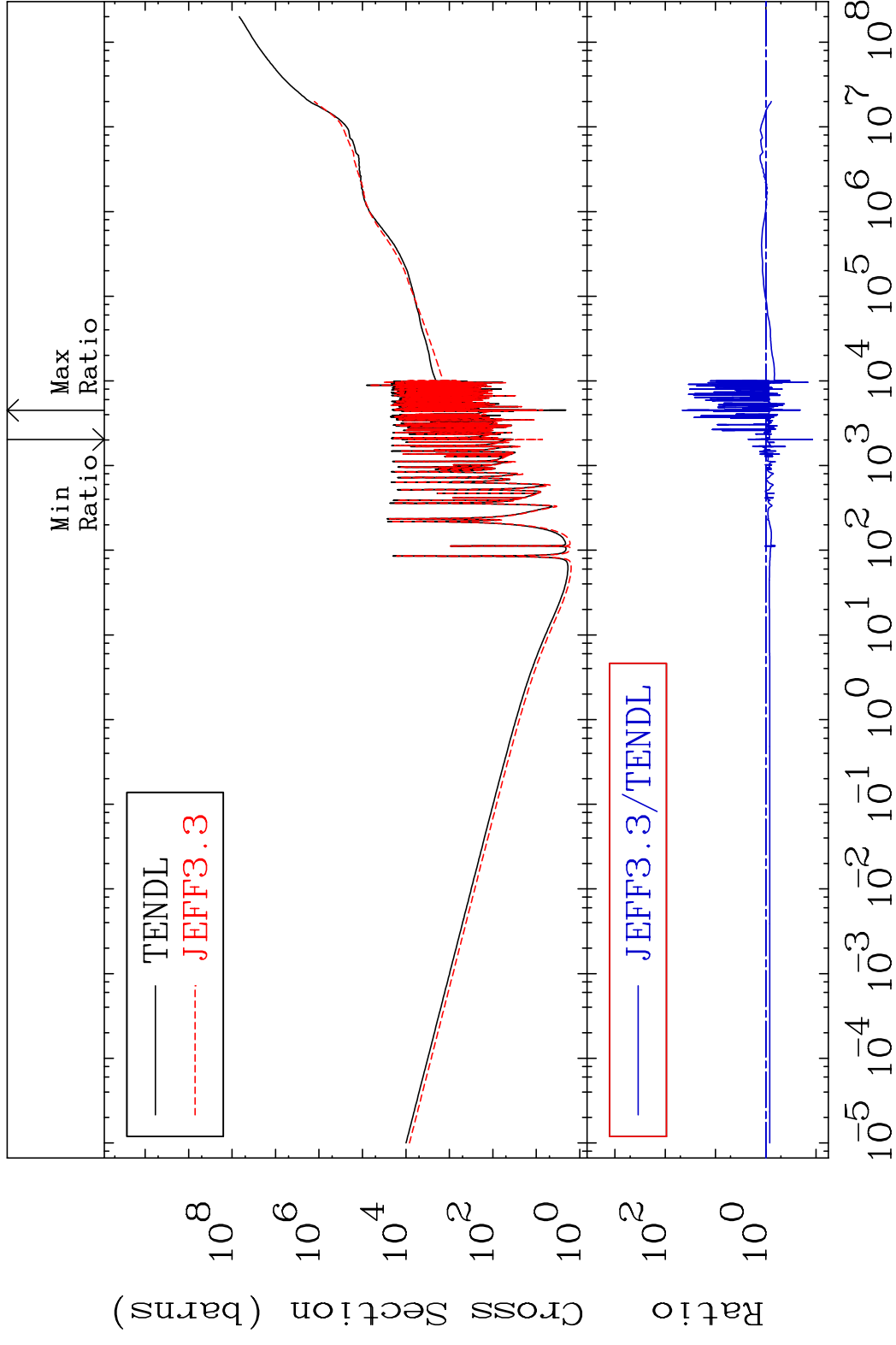




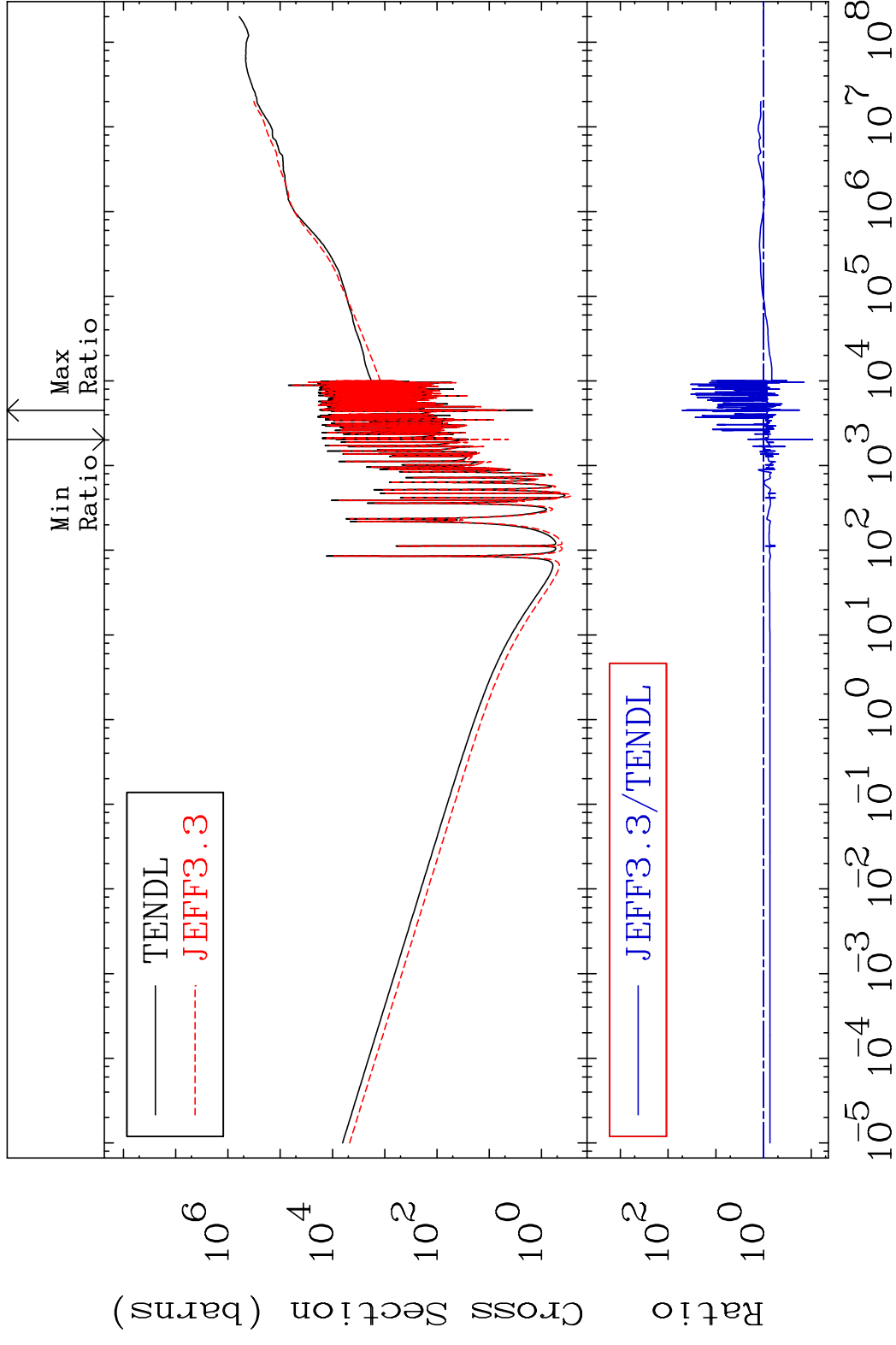
MAT 5925 Total photon (eV-barns) 59-Pr-141
 Cross Section -99.67 To 9999. %

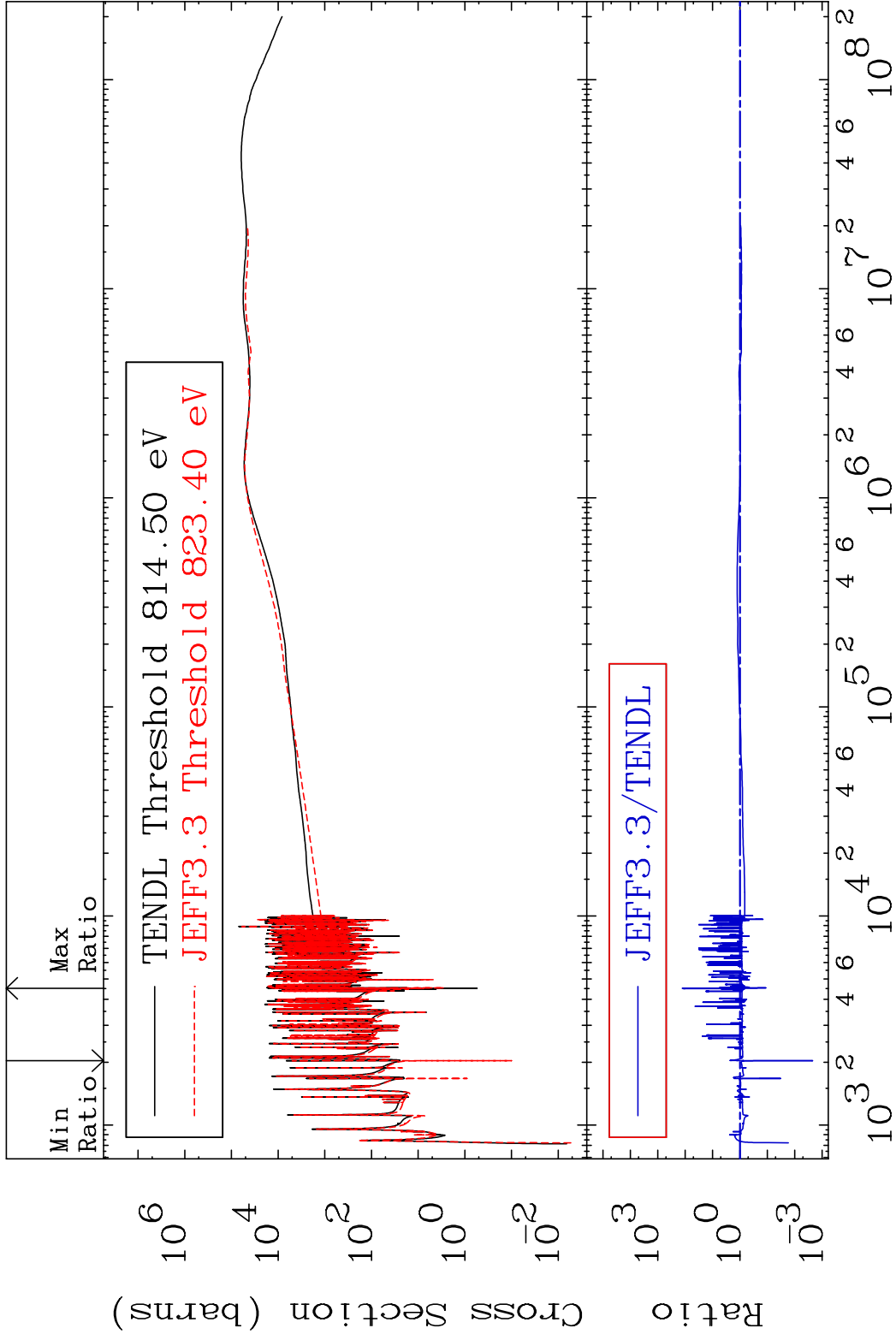


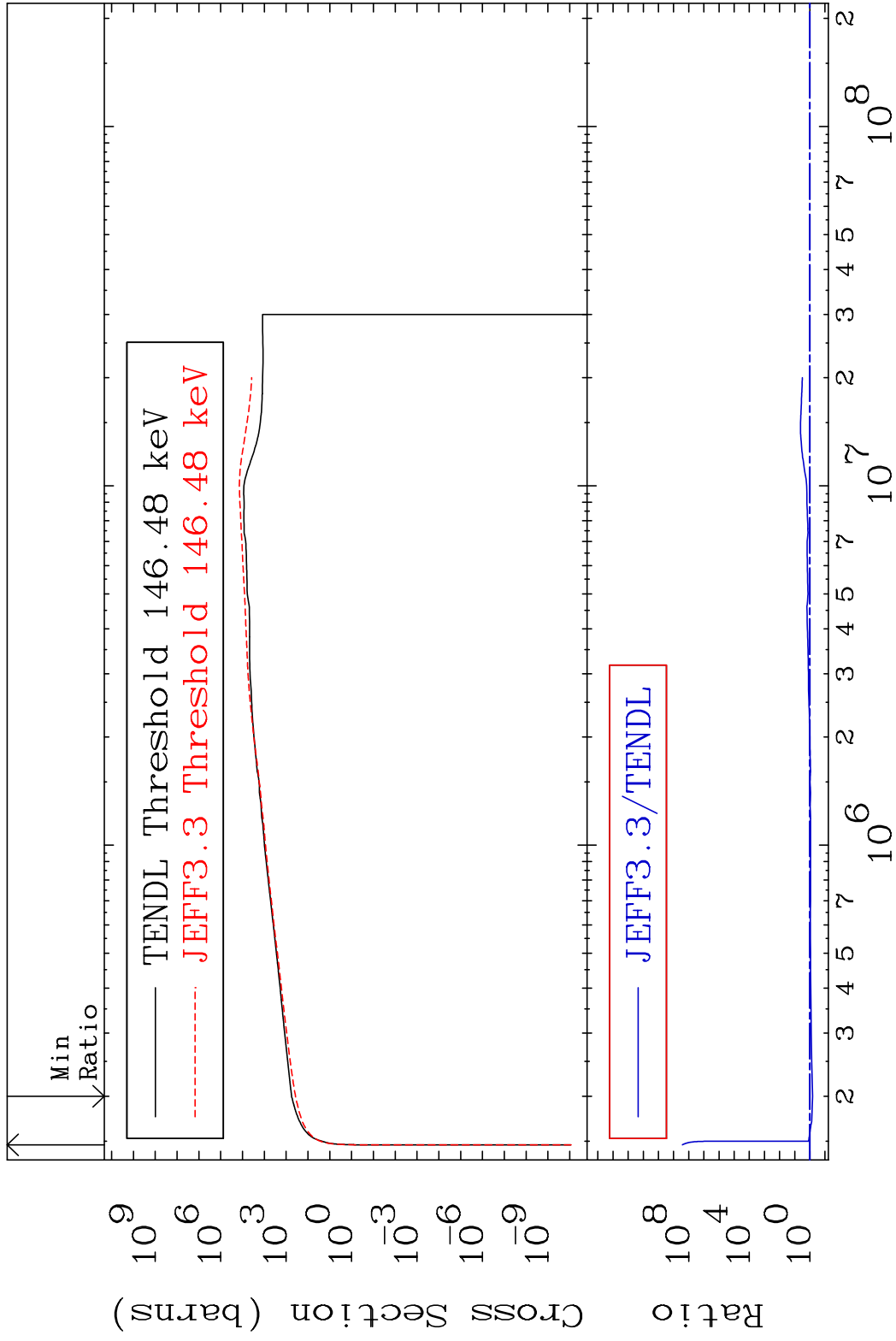
MAT 5925 Total kinematic kerma (high limit) 59-Pr-141
 Cross Section -88.28 To 4458. %



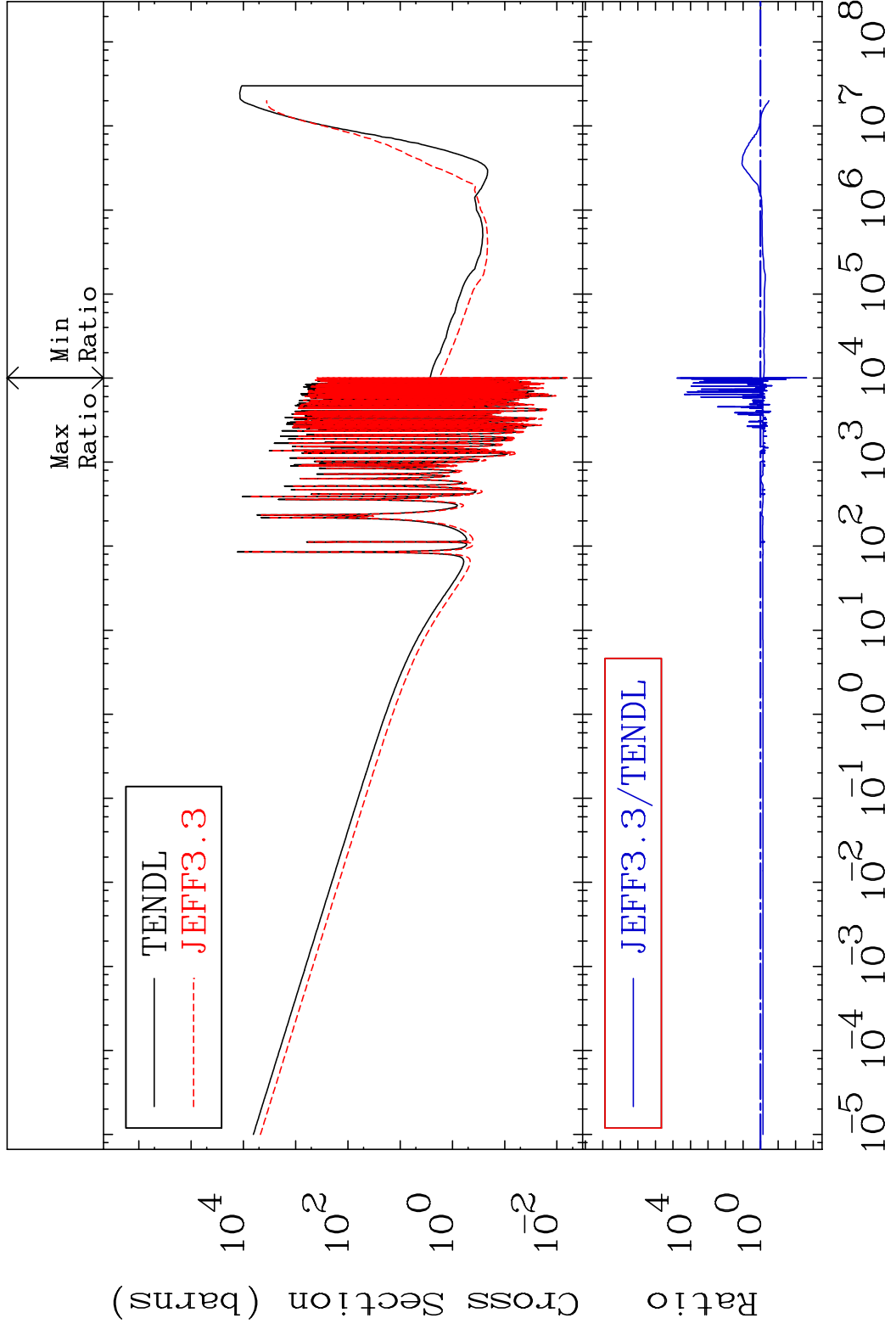
Cross Section -90.57 To 4930. %







MAT 5925 Dpa disappearance (mt102 -120) 59-Pr-141
 Cross Section -99.76 To 9999. %



40 Incident Energy (eV) 59-Pr-141