

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

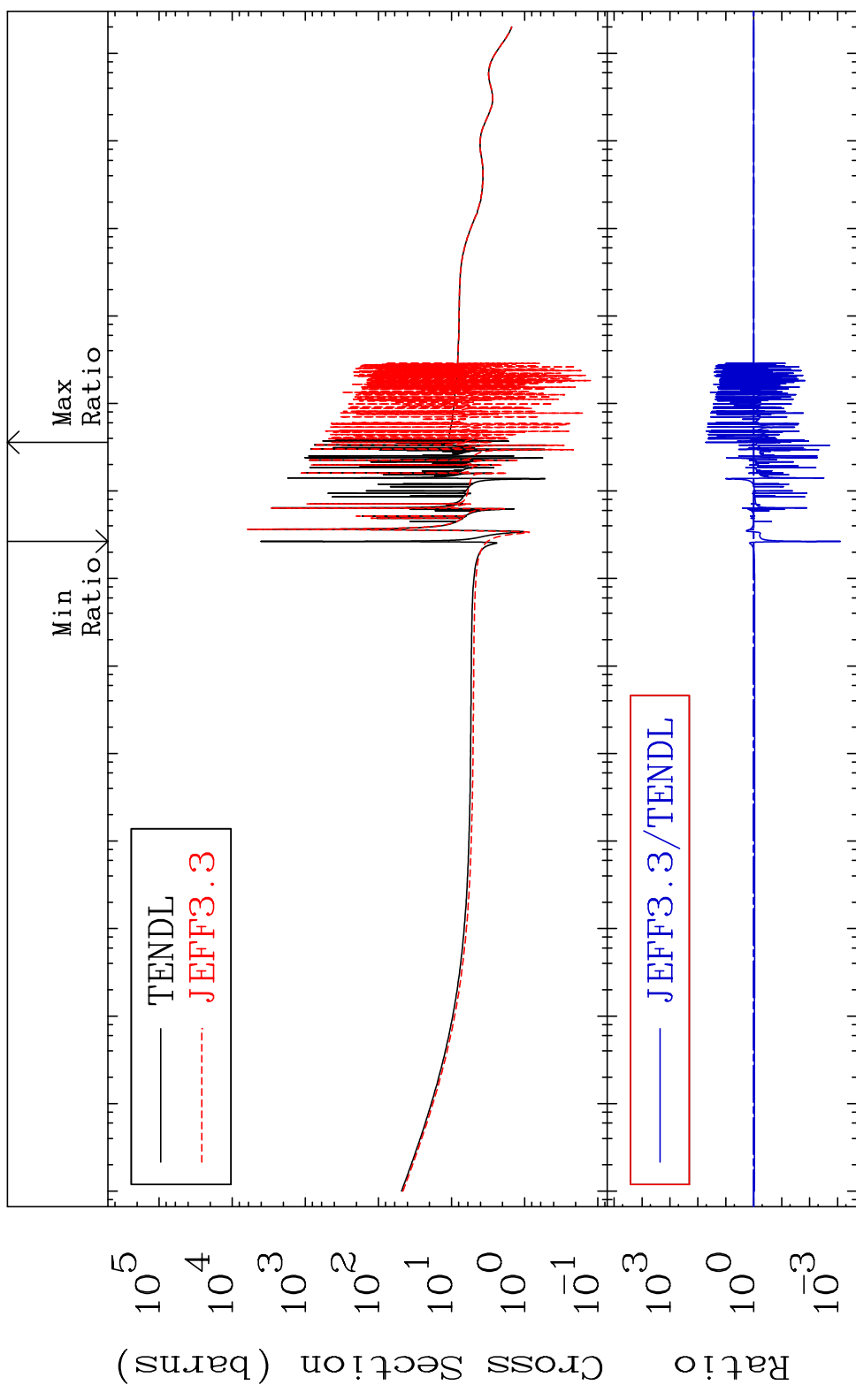
Press Mouse Button to Start

MAT 3825

Total

38-Sr-84

Cross Section -99.92 To 5124. %



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

10⁸ 10⁷ 10⁶ 10⁵ 10⁴ 10³ 10² 10¹ 10⁰

1

Incident Energy (eV)

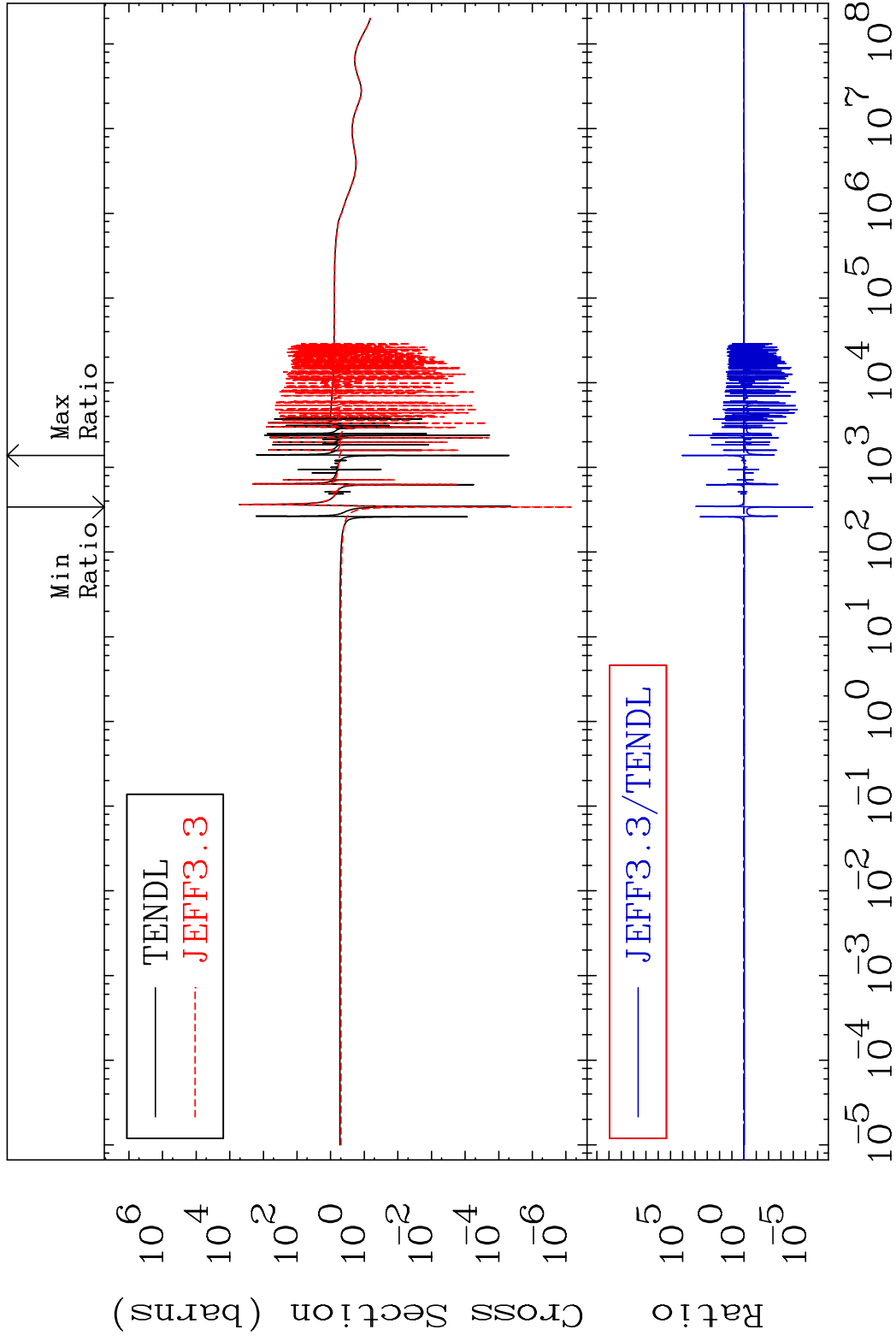
38-Sr-84

MAT 3825

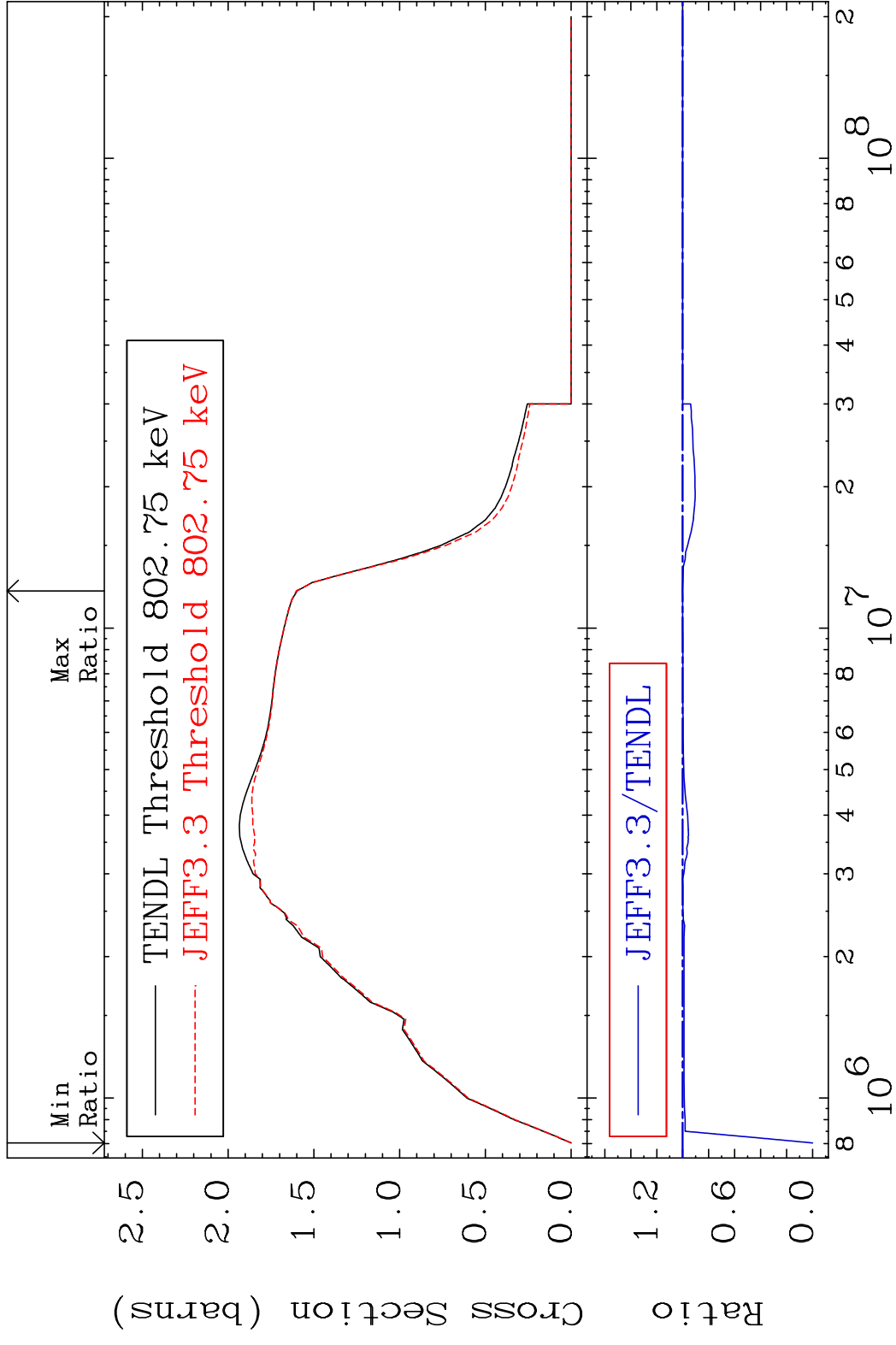
Elastic

38-Sr-84

Cross Section -100.0 To 9999. %

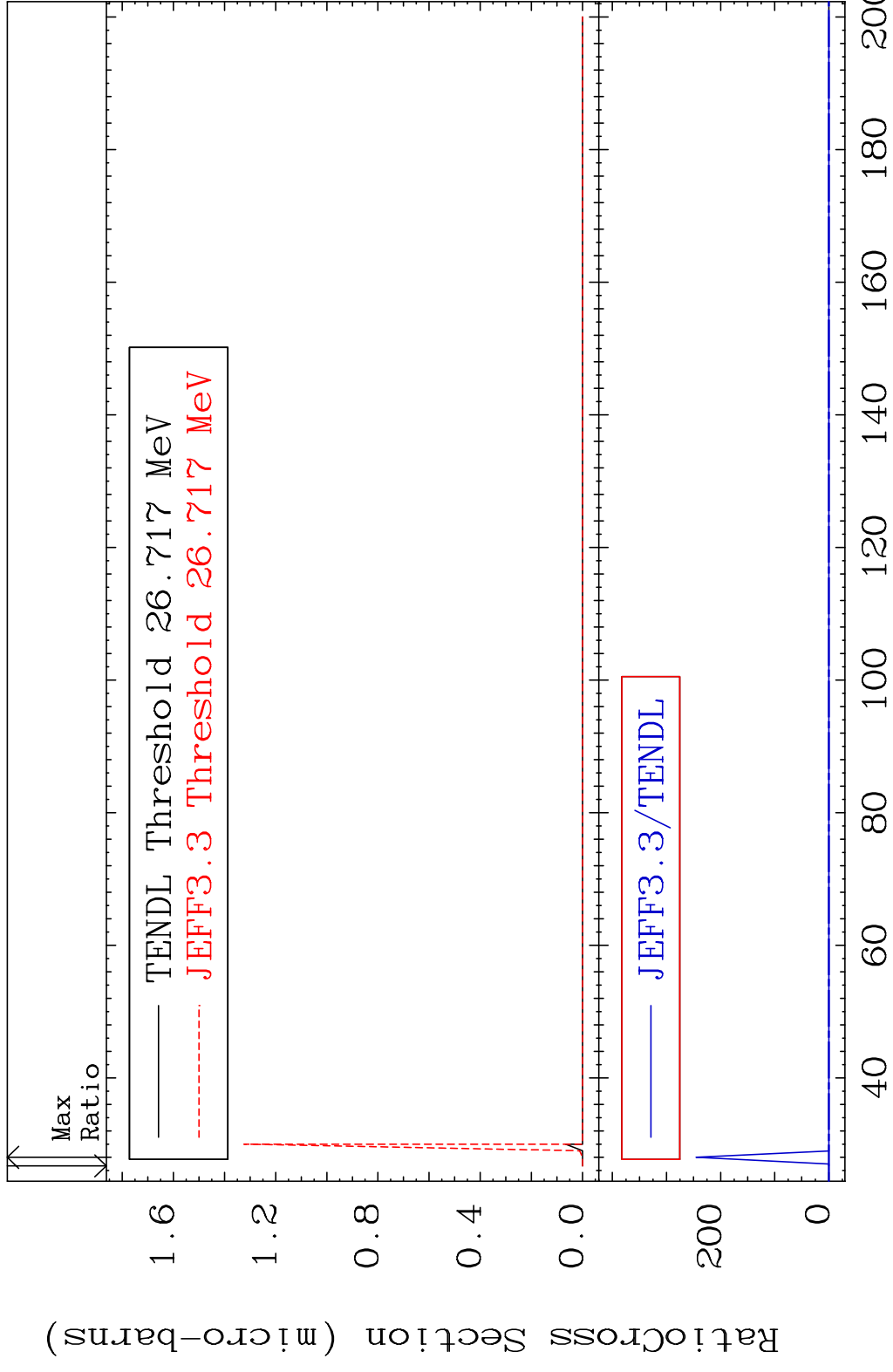


MAT 3825 Inelastic 38-Sr-84
 Cross Section -100.0 To 0.270 %



3 8 10⁶ 2 3 4 5 6 8 10⁷ 2 3 4 5 6 8 10⁸ 2 38-Sr-84

MAT 3825 (n,2n) d 38-Sr-84
 Cross Section -100.0 To 9999. %

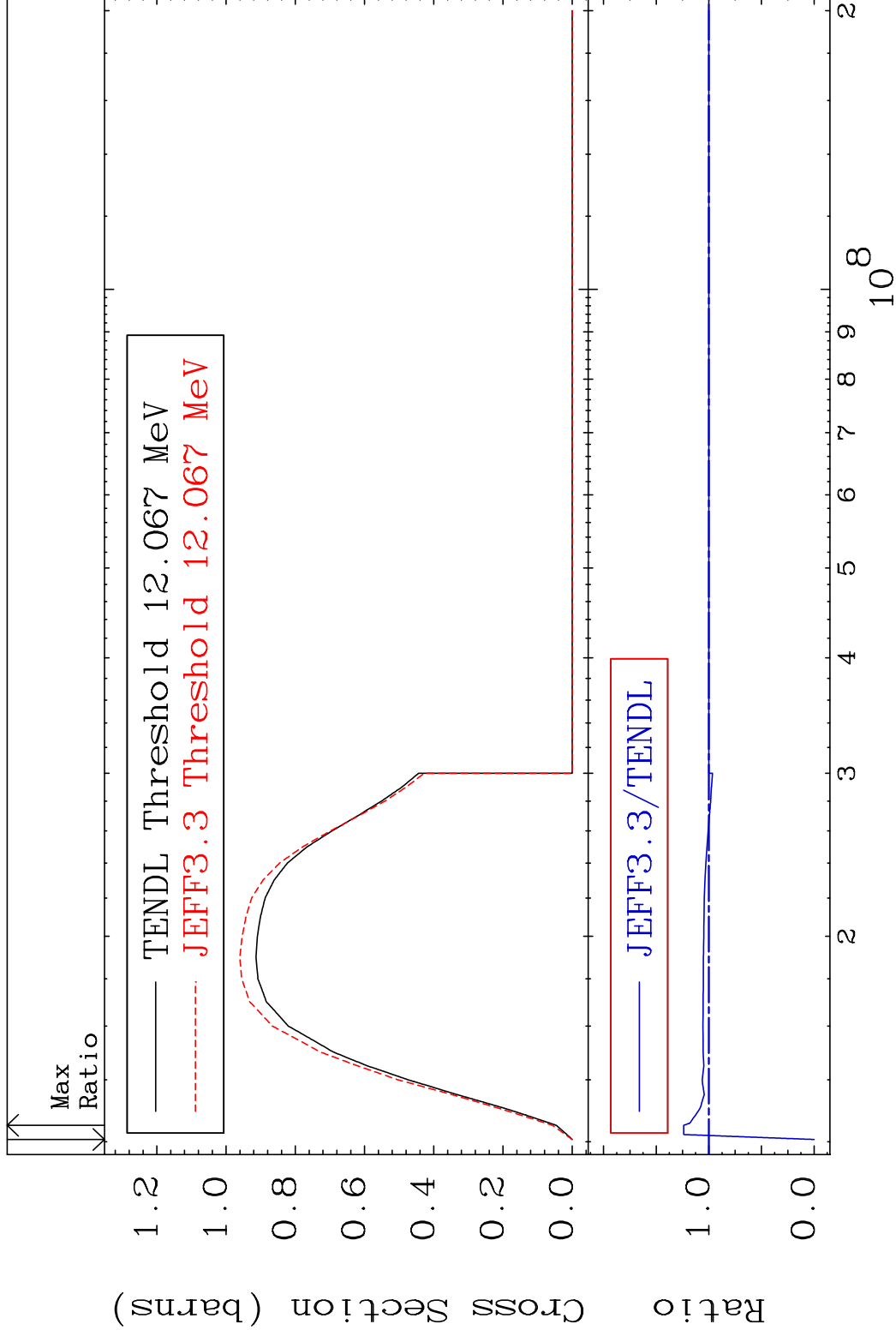


MAT 3825

(n,2n)

38-Sr-84

Cross Section -100.0 To 23.92 %



5

Incident Energy (eV)

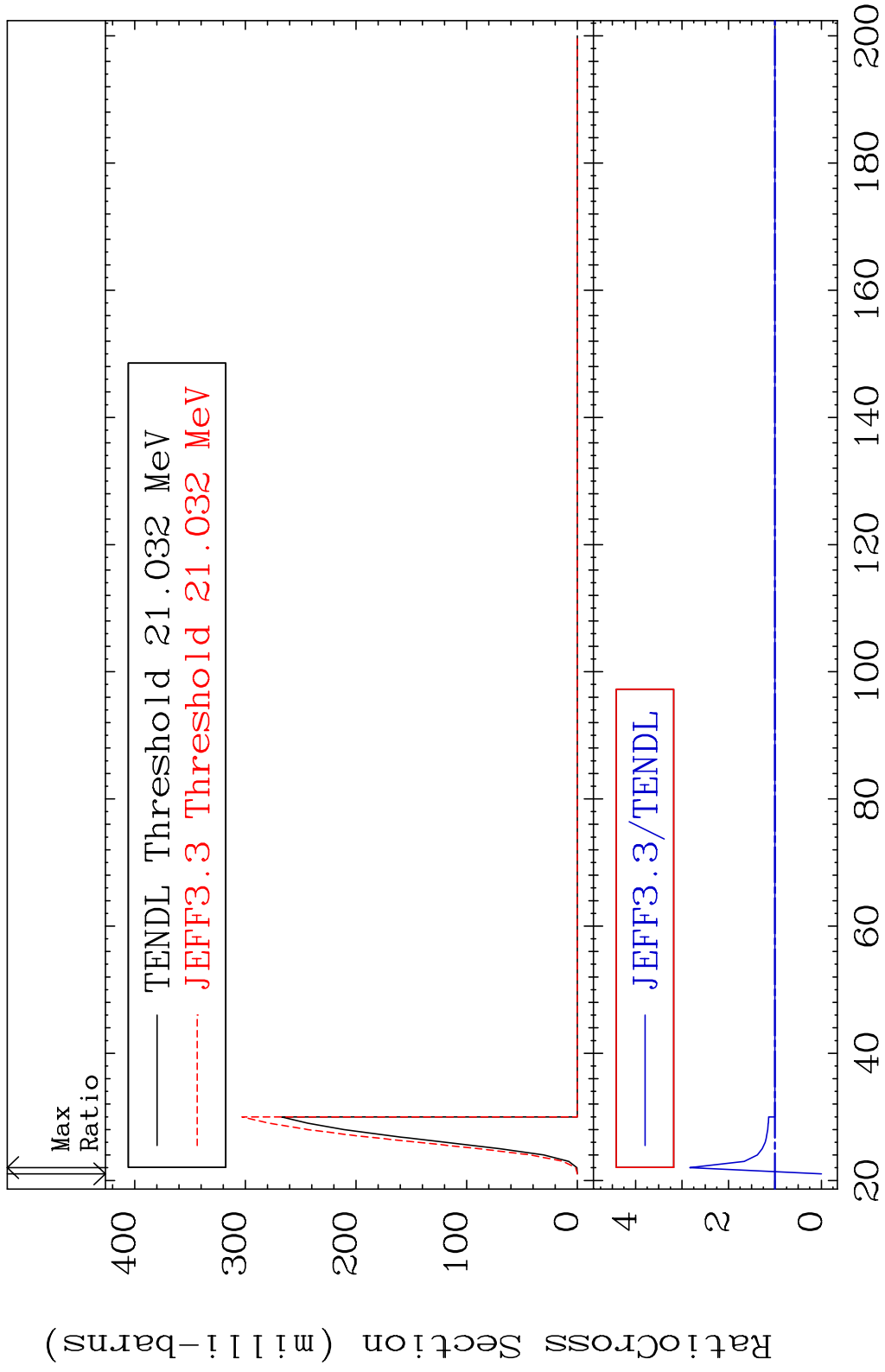
38-Sr-84

MAT 3825

(n,3n)

38-Sr-84

Cross Section -100.0 To 183.3 %



6

Incident Energy (MeV)

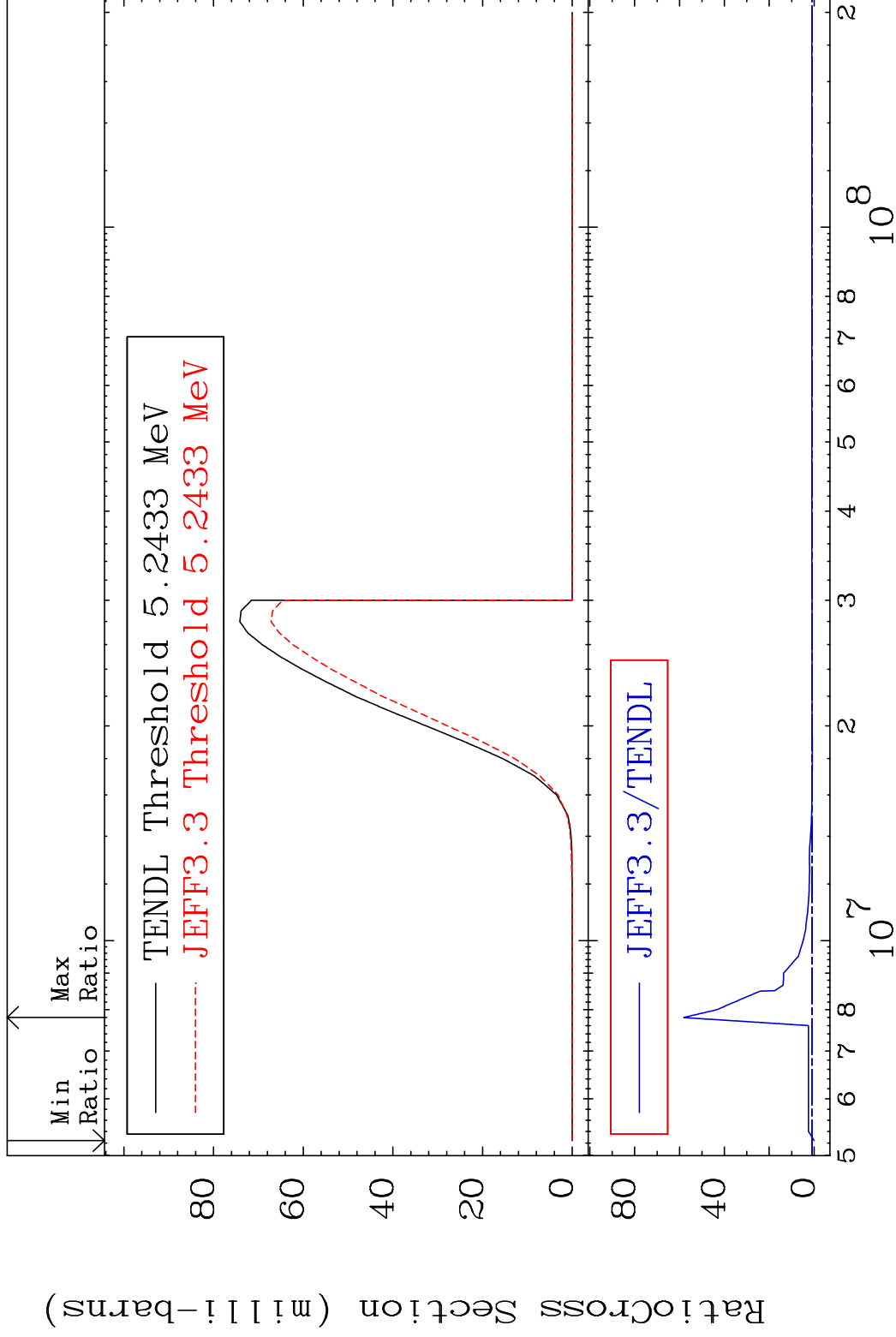
38-Sr-84

MAT 3825

(n, n') α

38-Sr-84

Cross Section -100.0 To 5716. %

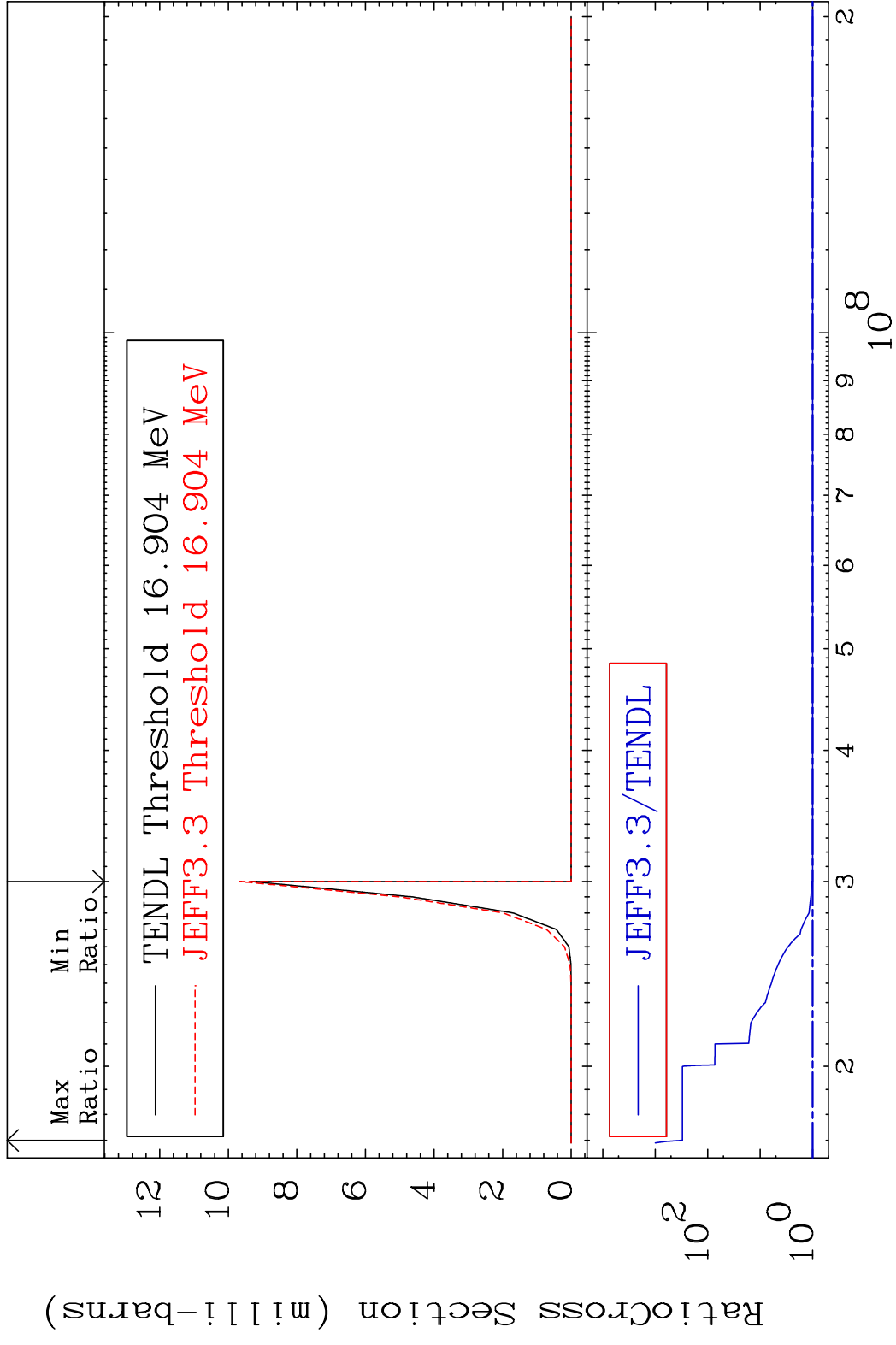


7

Incident Energy (eV)

38-Sr-84

MAT 3825 (n,2n) α 38-Sr-84
 Cross Section 0.000 To 9999. %

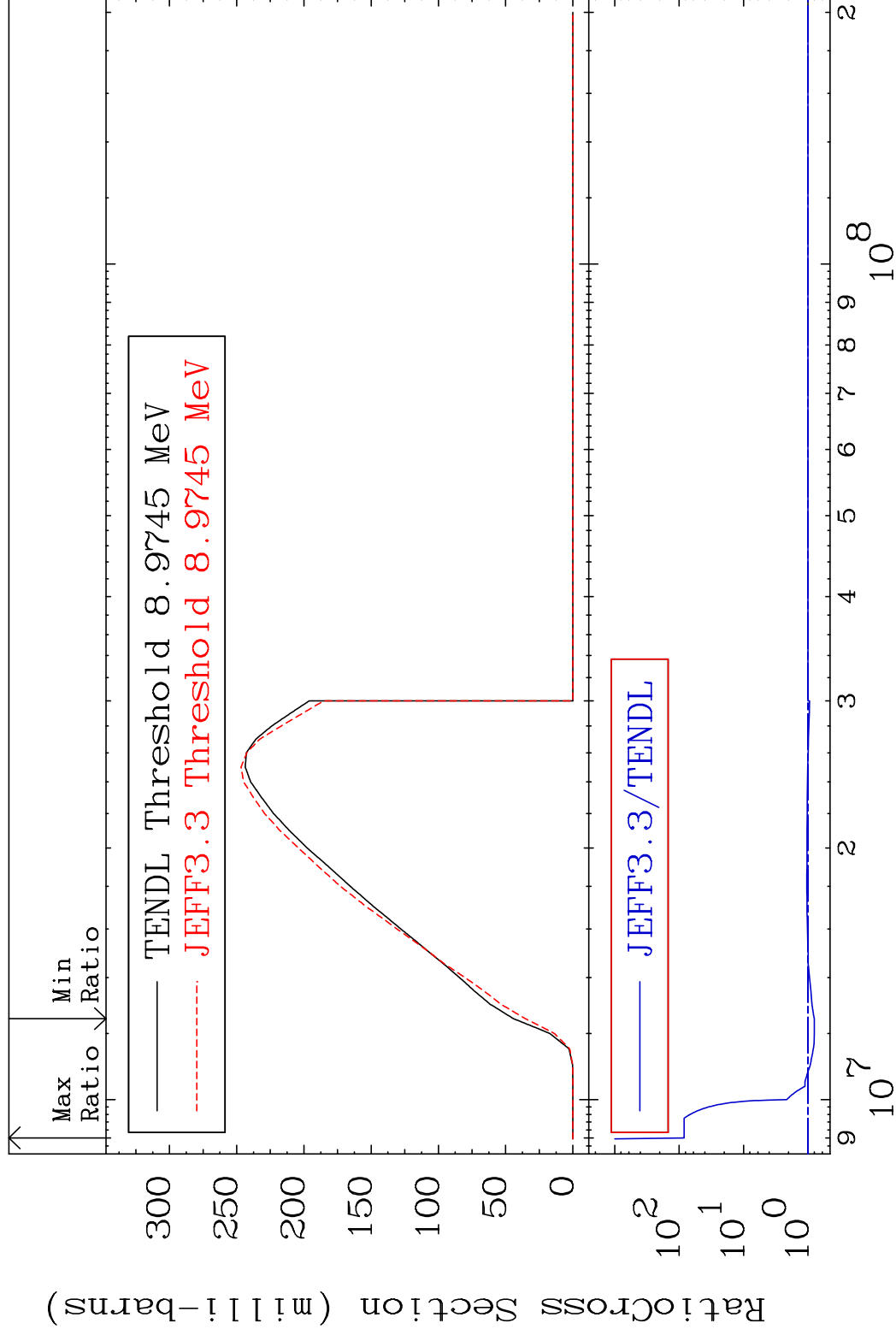


MAT 3825

(n, n') p

38-Sr-84

Cross Section -19.94 To 8286. %



9

Incident Energy (eV)

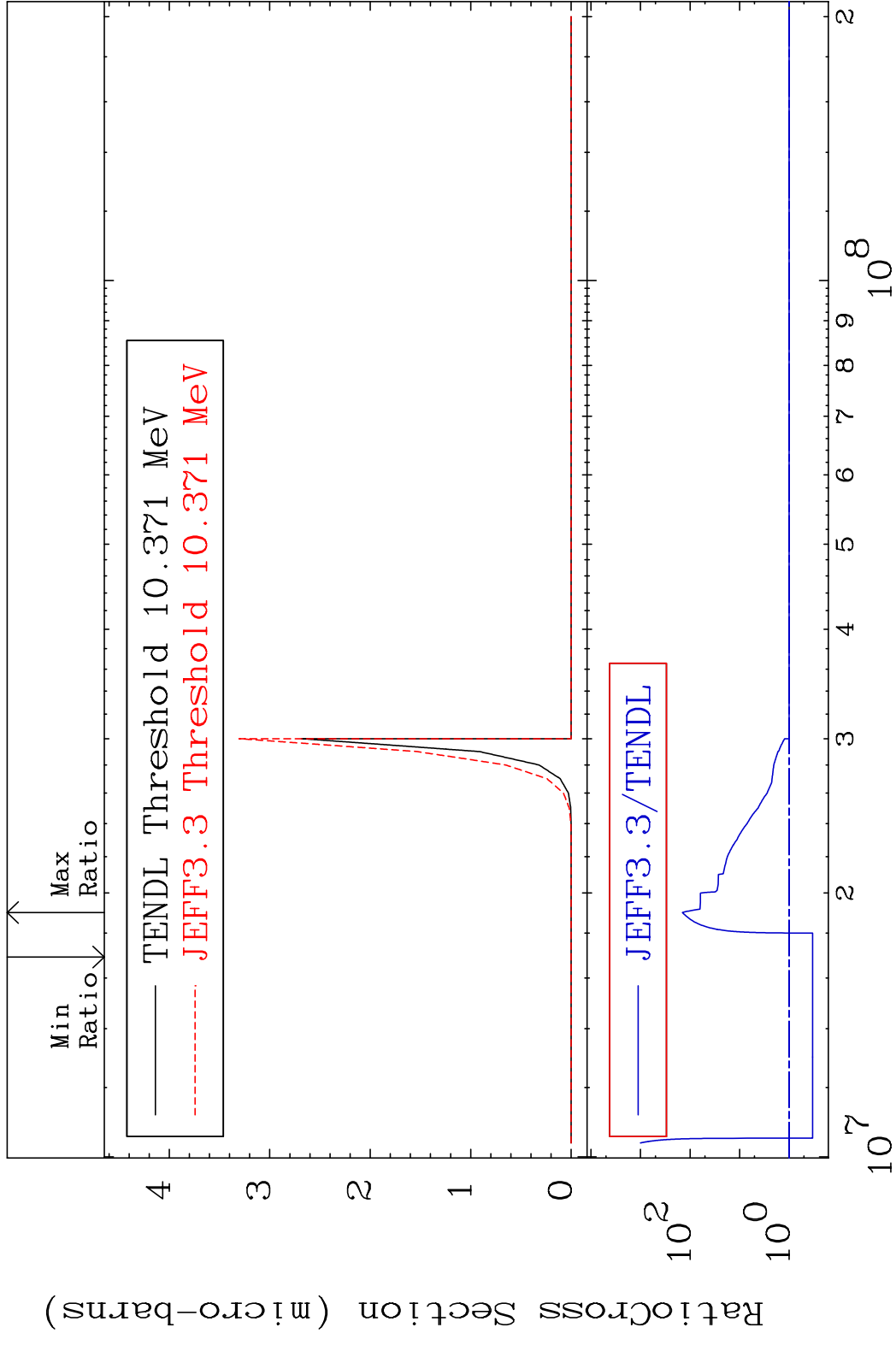
38-Sr-84

MAT 3825

(n, n') 2α

38-Sr-84

Cross Section -66.43 To 9999. %

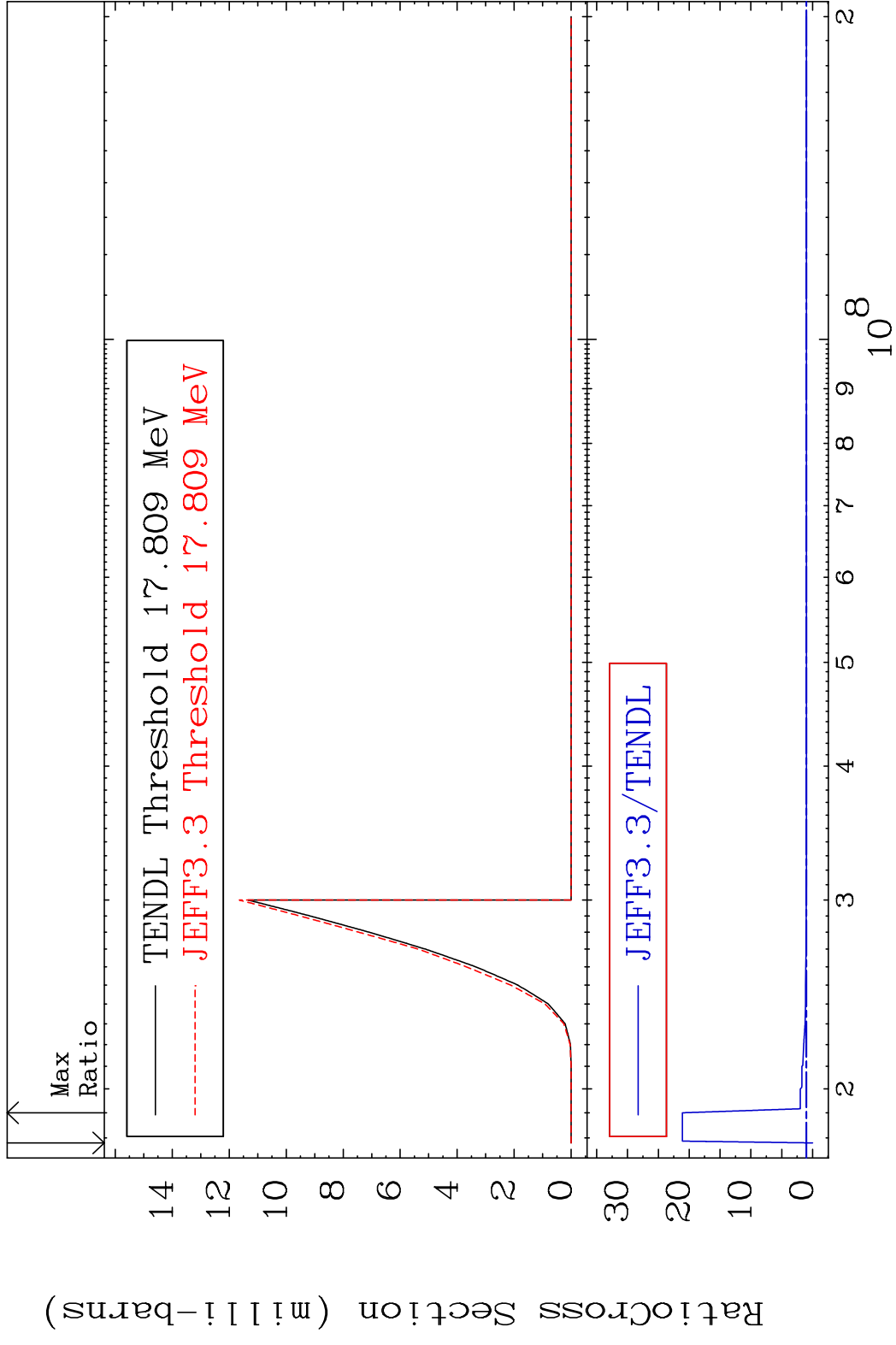


10

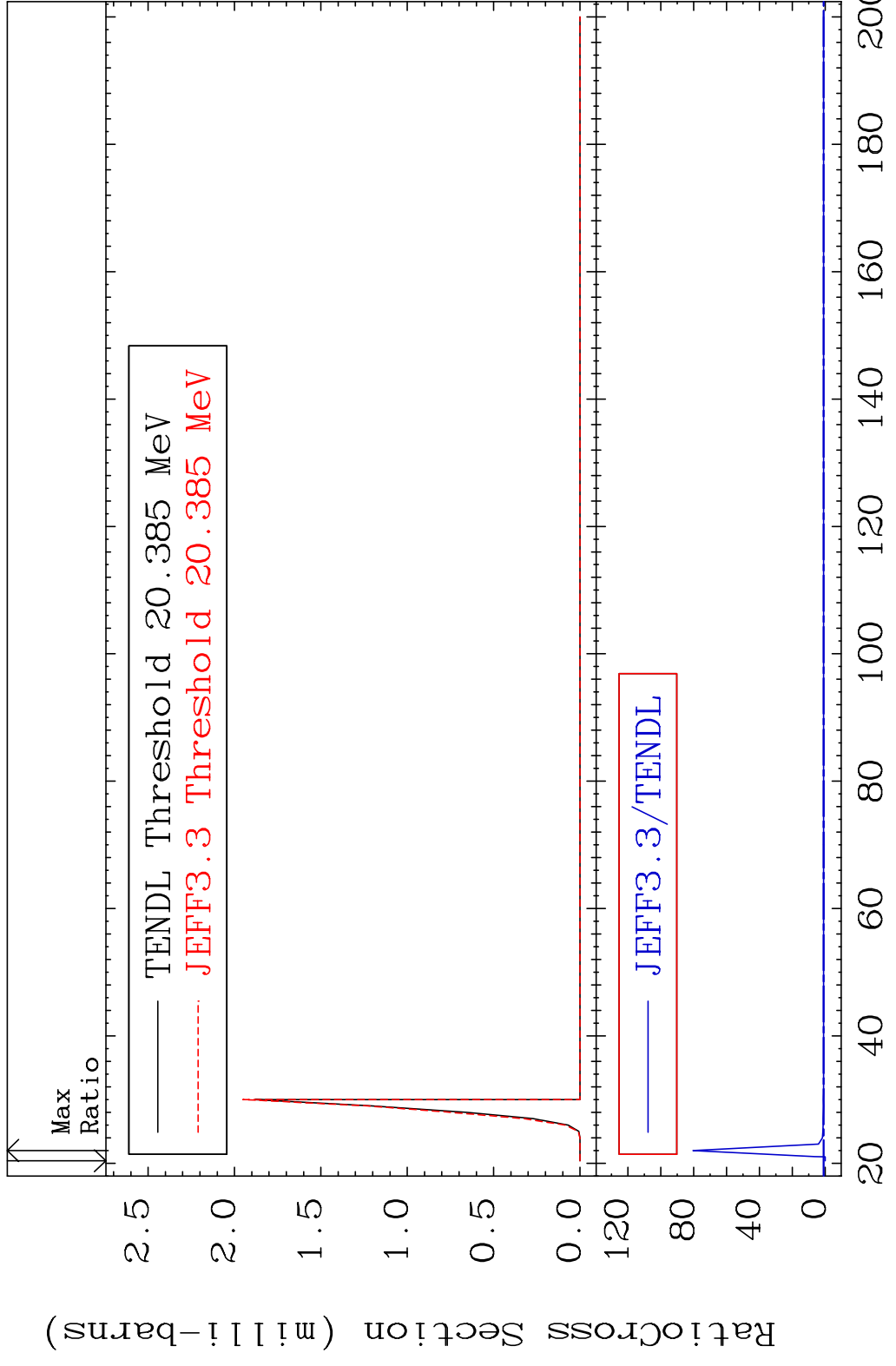
Incident Energy (eV)

38-Sr-84

MAT 3825 (n, n') d 38-Sr-84
 Cross Section -100.0 To 2011. %



MAT 3825 (n, n') t 38-Sr-84
 Cross Section -100.0 To 7940. %

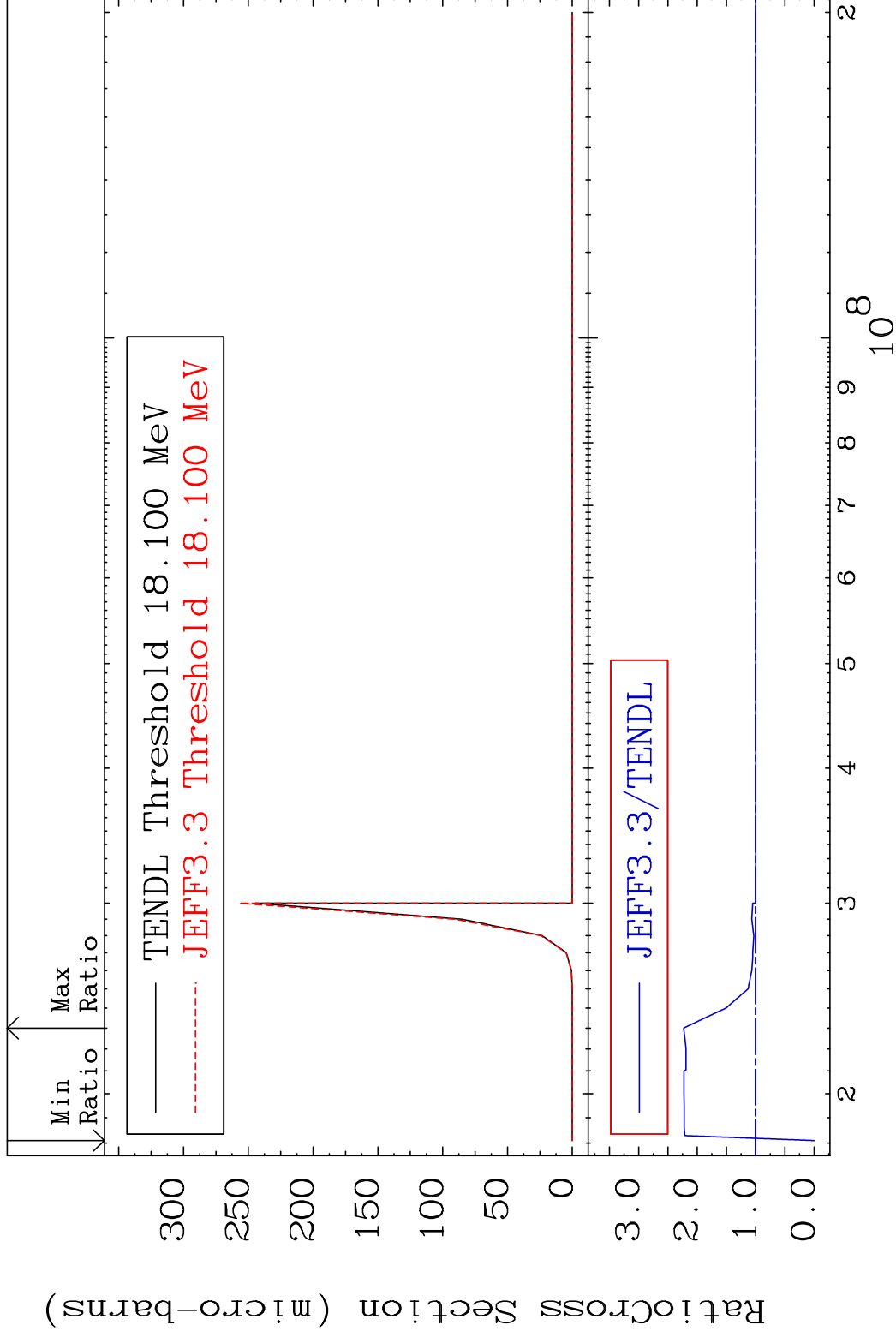


MAT 3825

(n,n') He-3

38-Sr-84

Cross Section -100.0 To 123.0 %

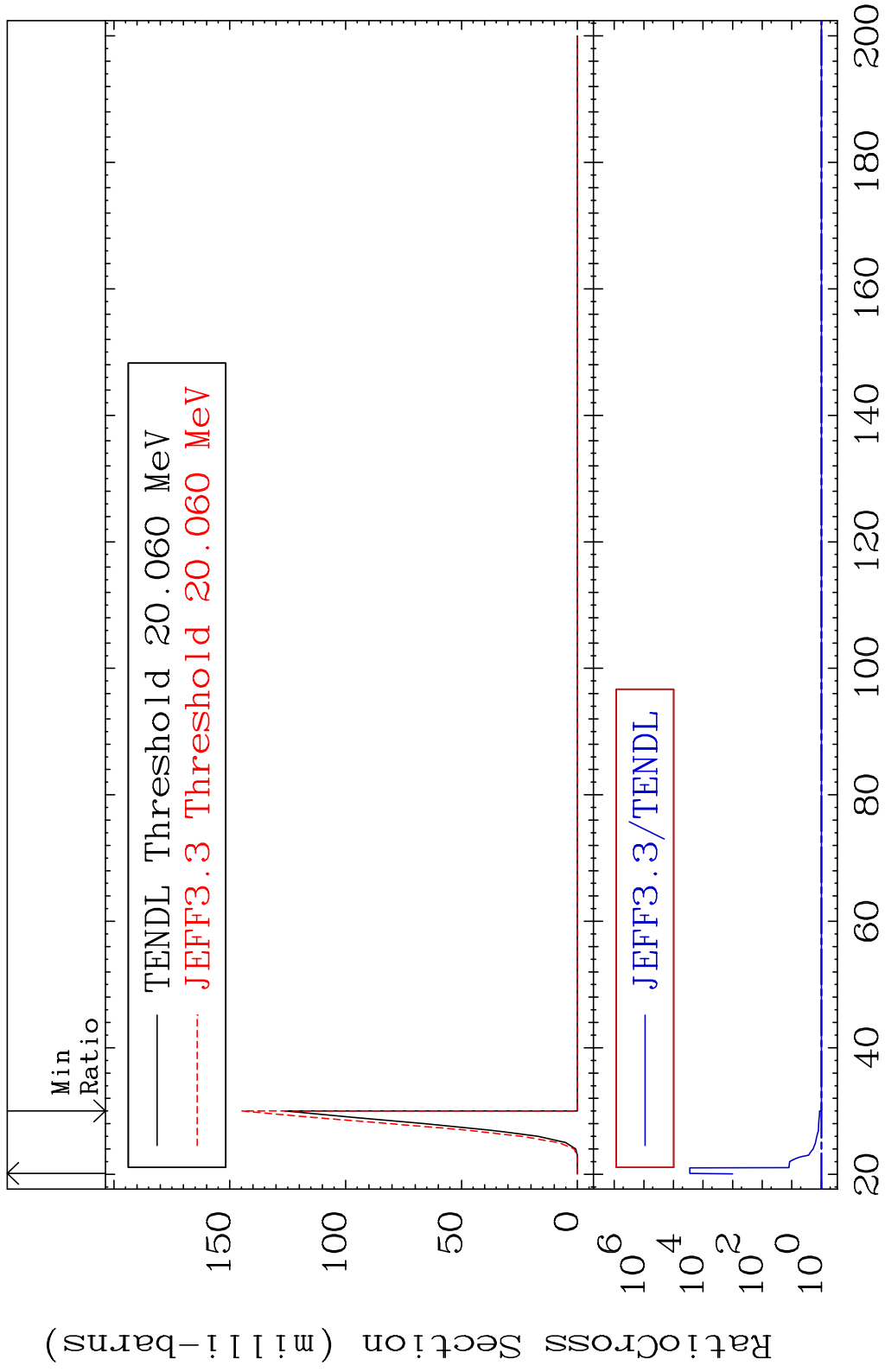


MAT 3825

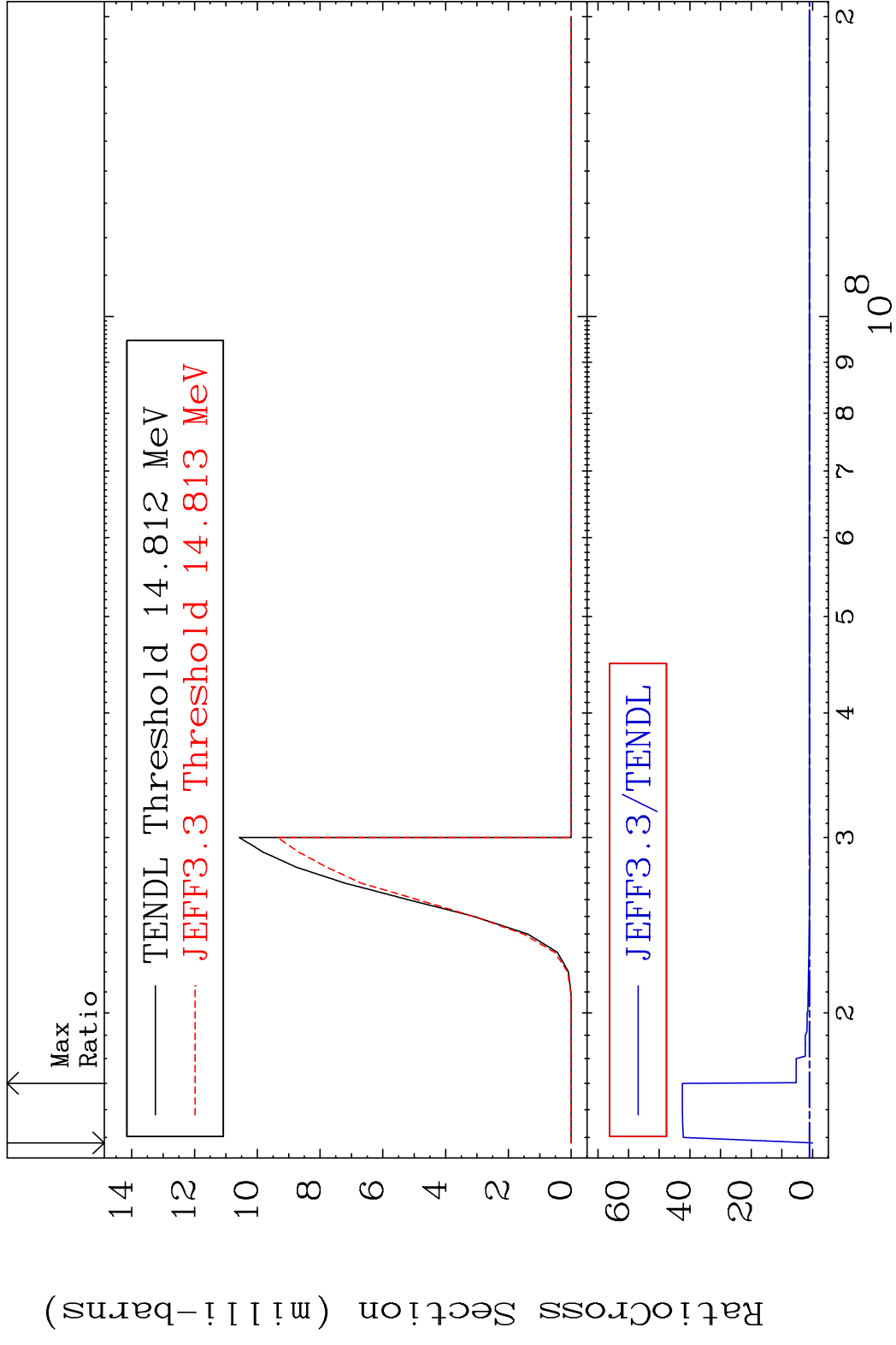
(n,2n) p

38-Sr-84

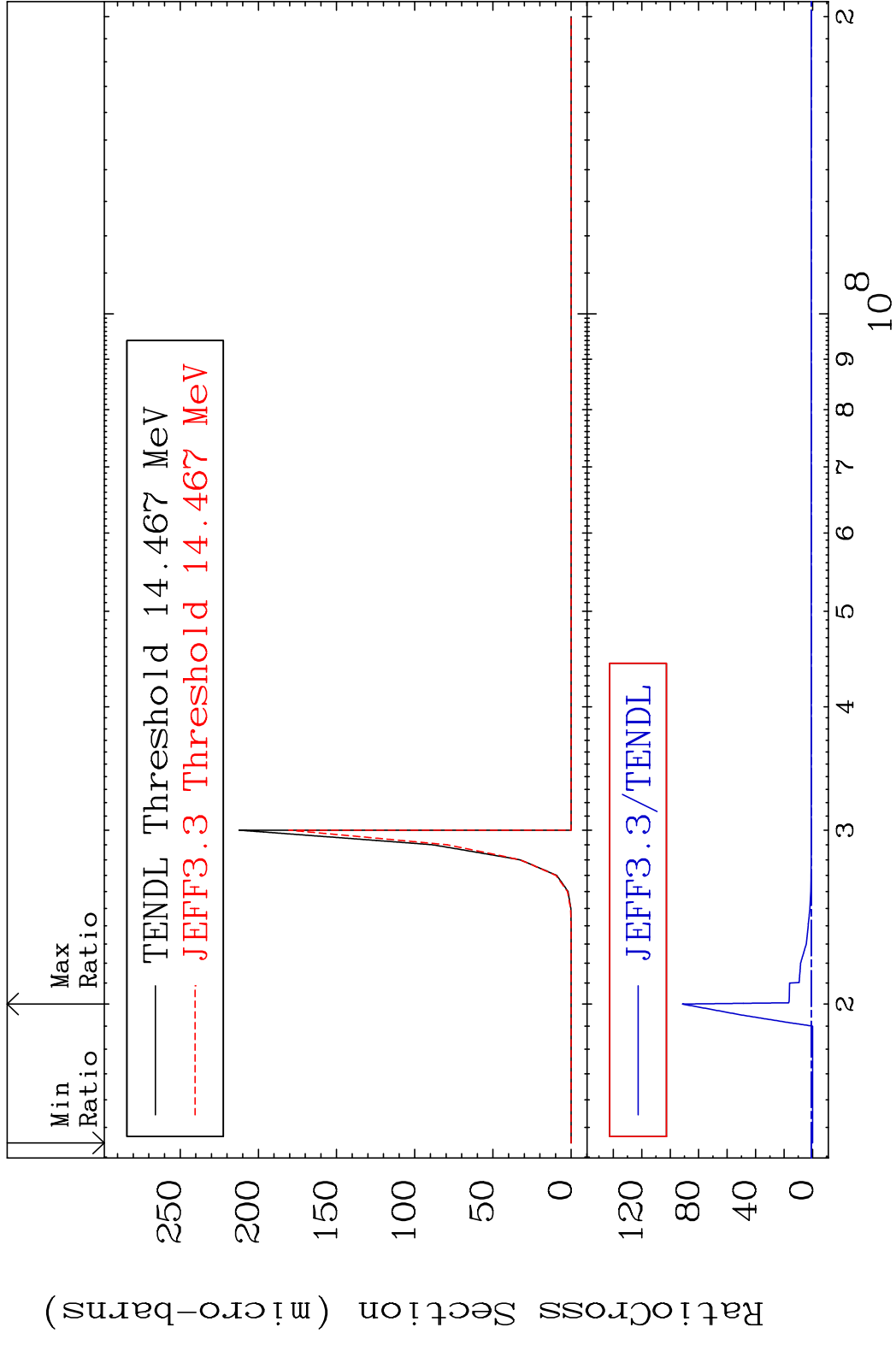
Cross Section 0.000 To 9999. %



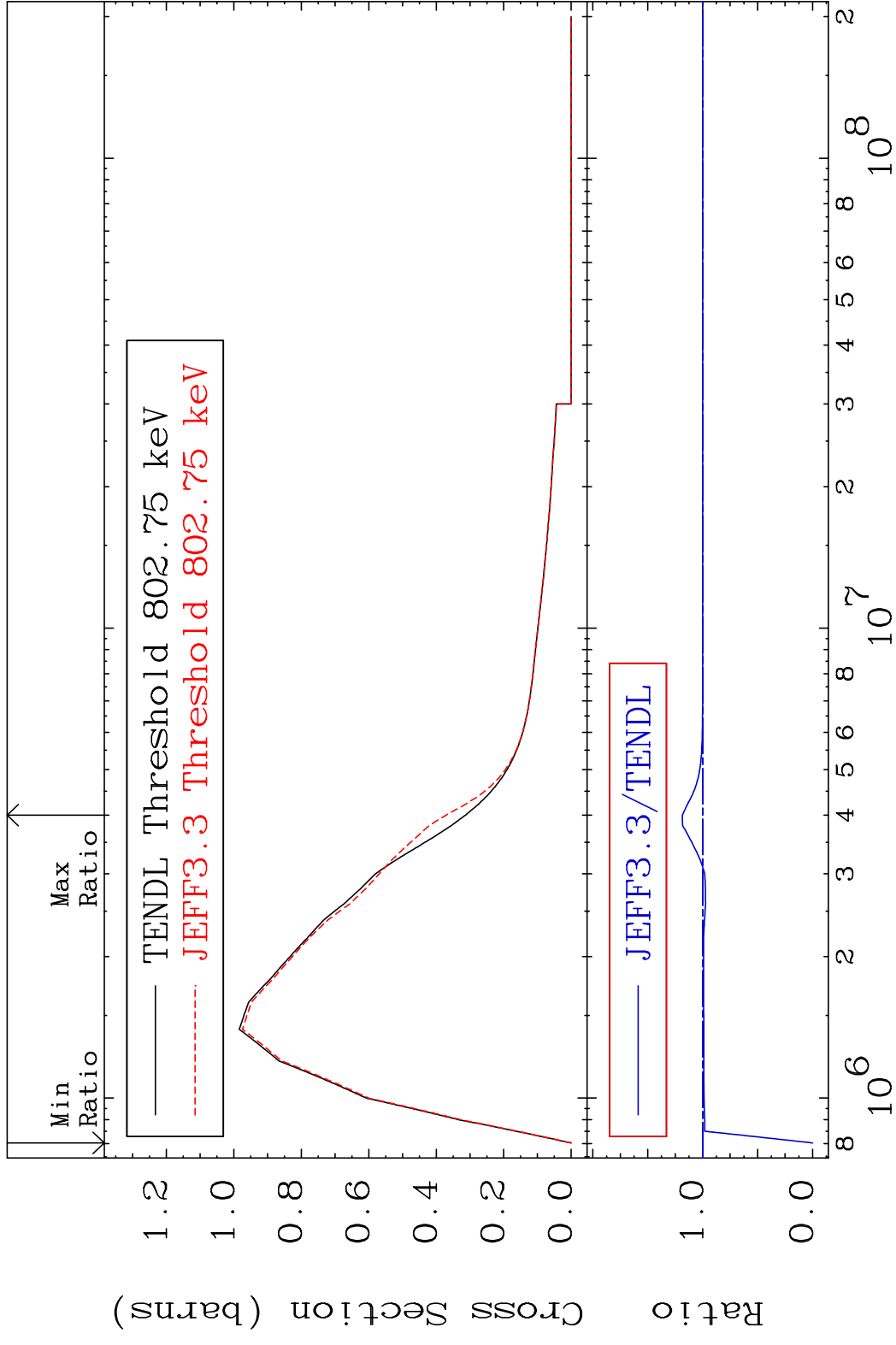
MAT 3825 (n,2n) p 38-Sr-84
 Cross Section -100.0 To 4146. %



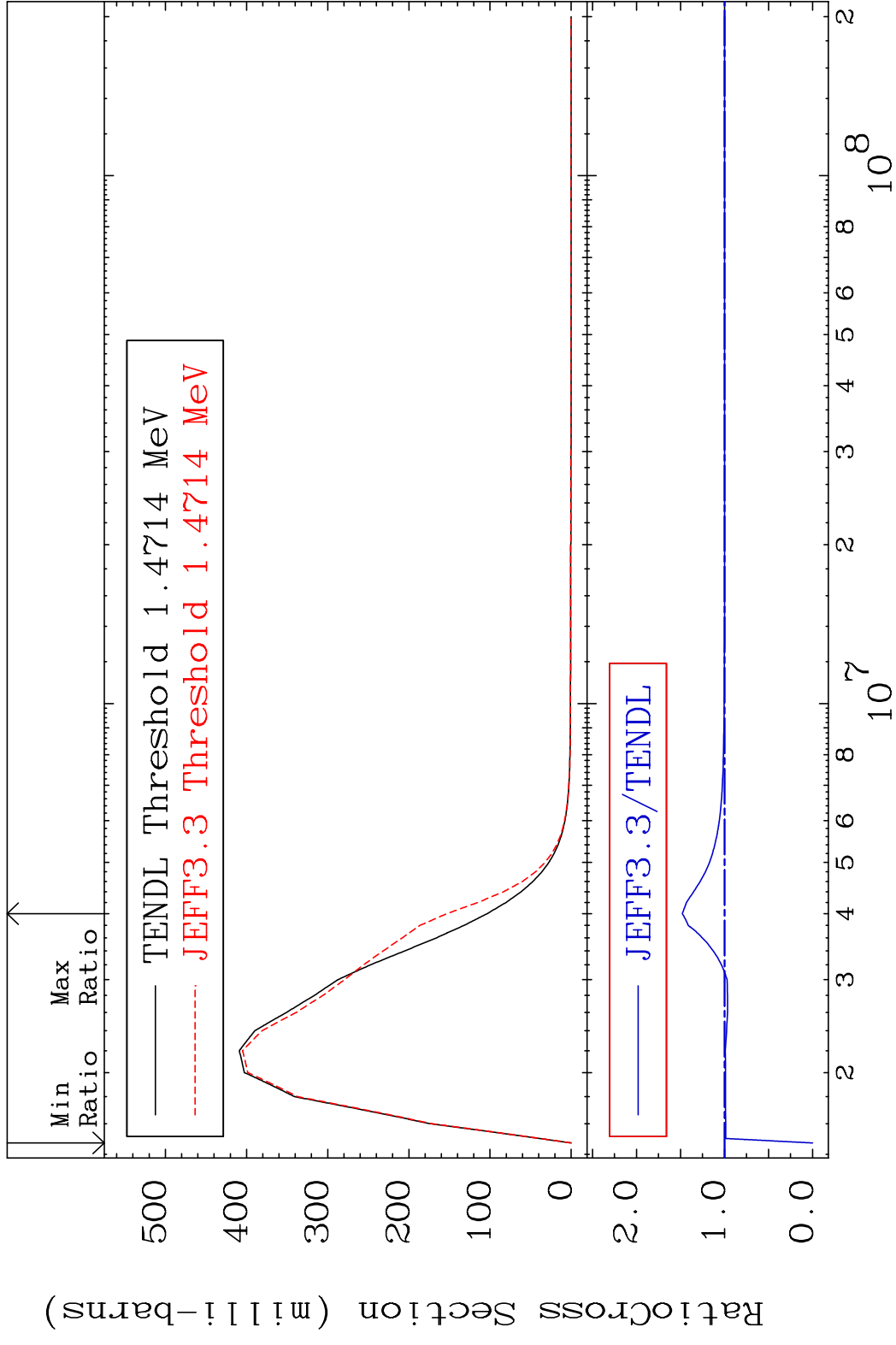
MAT 3825 (n,n') p α 38-Sr-84
 Cross Section -100.0 To 9047. %



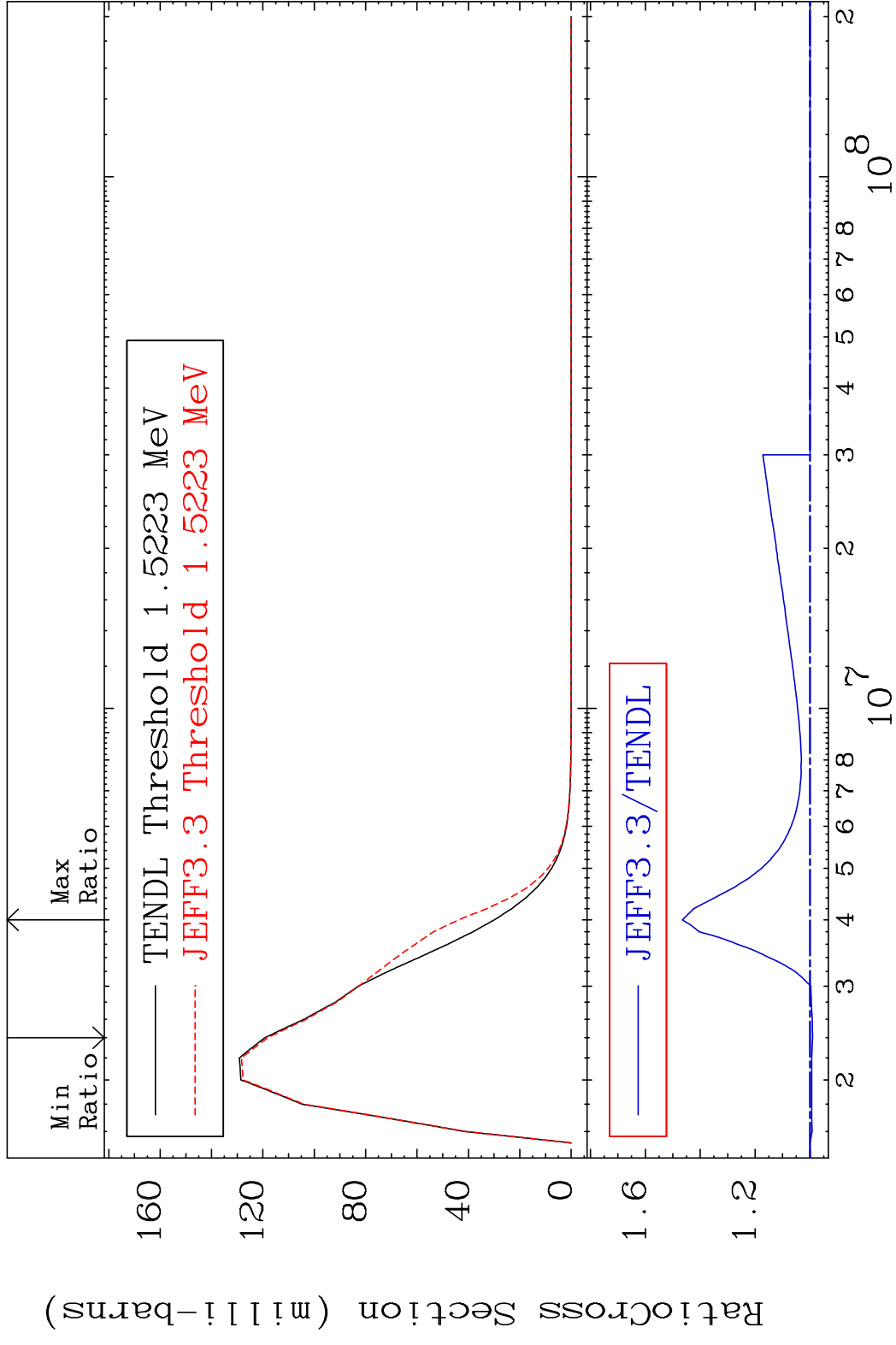
MAT 3825 MT= 51 (n, n') Level 38-Sr-84
 Cross Section -100.0 To 18.52 %



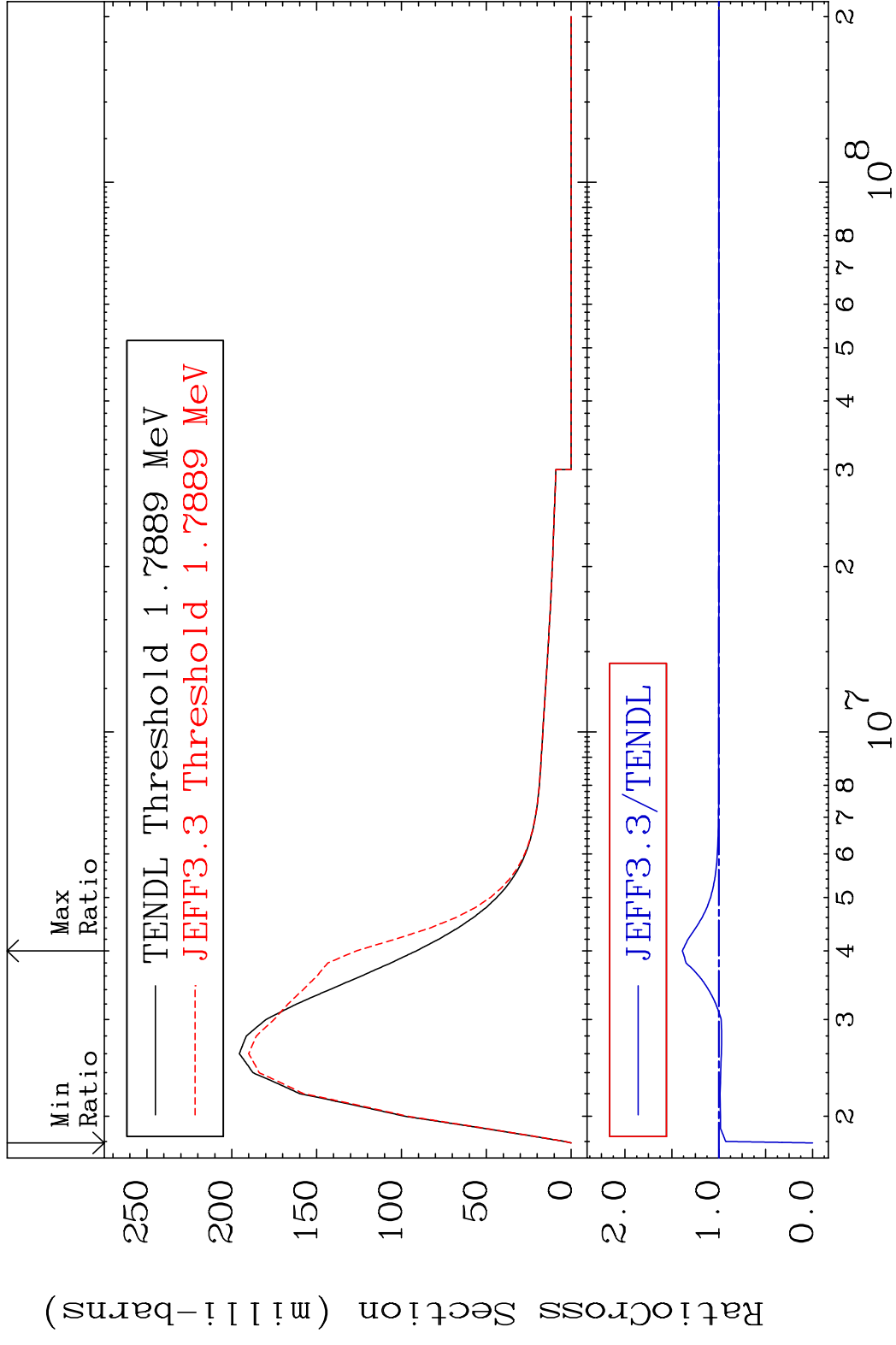
MAT 3825 MT= 52 (n, n') Level 38-Sr-84
 Cross Section -100.0 To 47.88 %



MAT 3825 MT= 53 (n, n') Level 38-Sr-84
 Cross Section -0.934 To 46.52 %

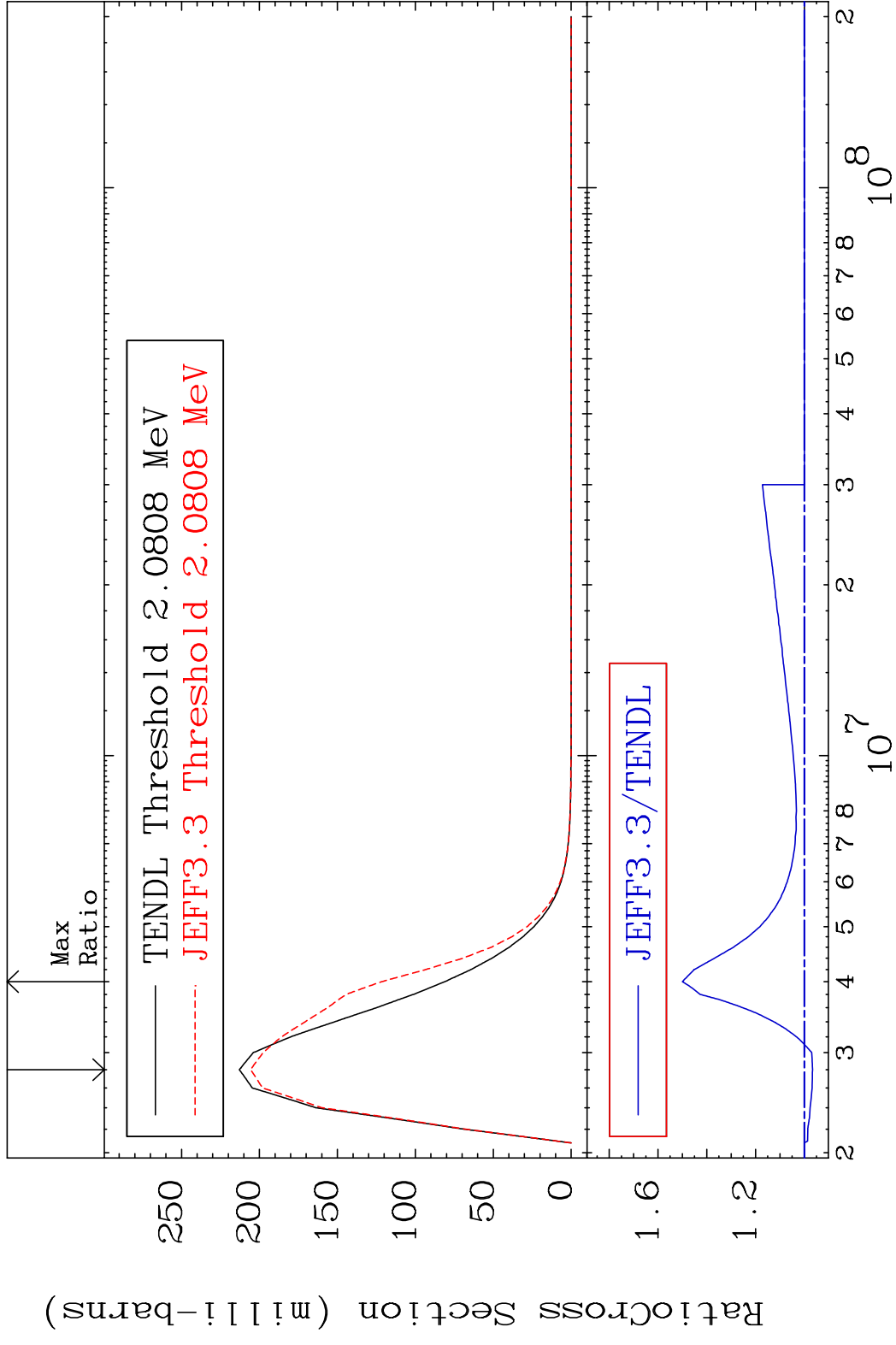


MAT 3825 MT= 54 (n, n') Level 38-Sr-84
 Cross Section -100.0 To 38.82 %

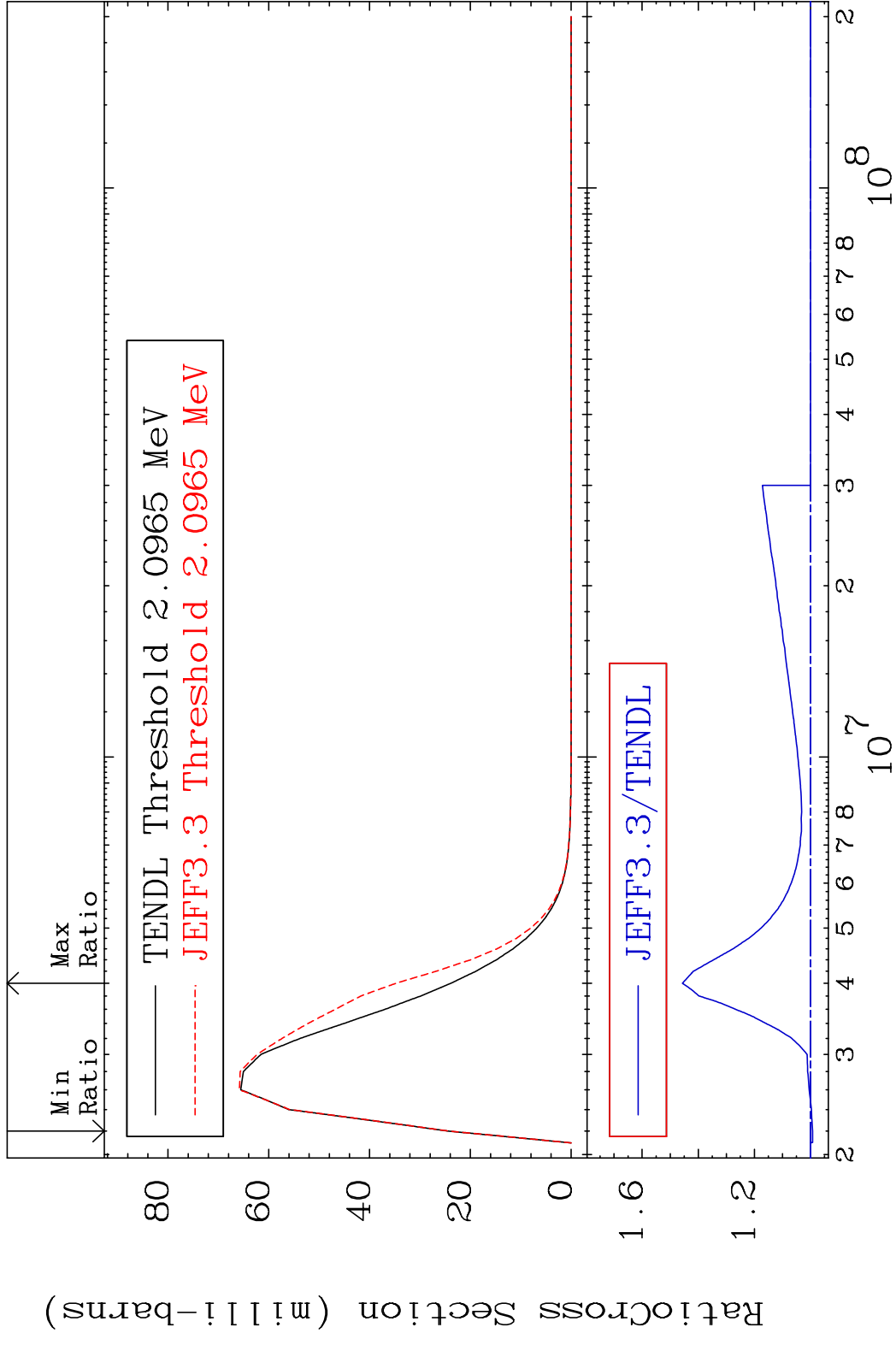


20 Incident Energy (eV) 38-Sr-84

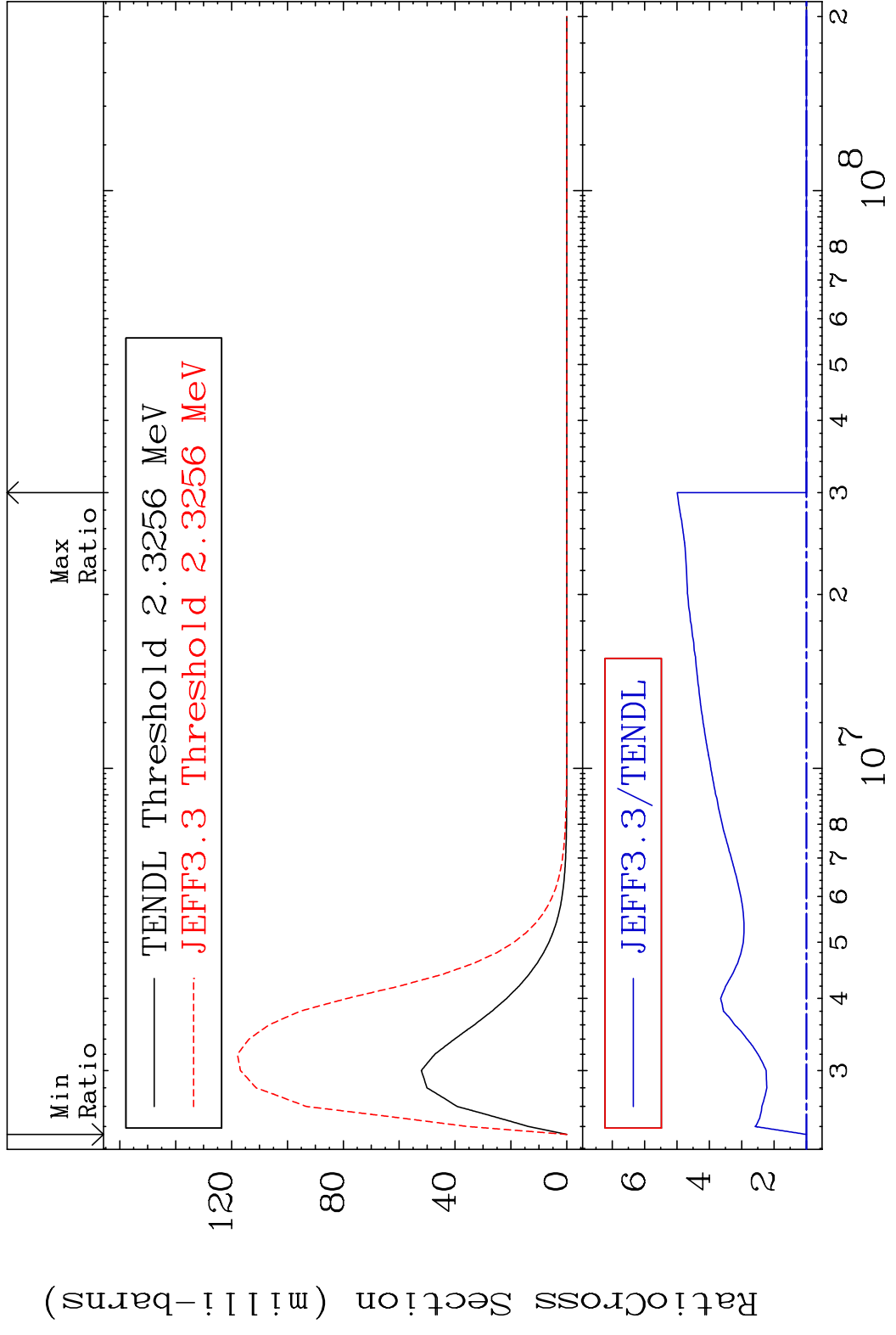
MAT 3825 MT= 55 (n,n') Level 38-Sr-84
 Cross Section -3.384 To 50.01 %



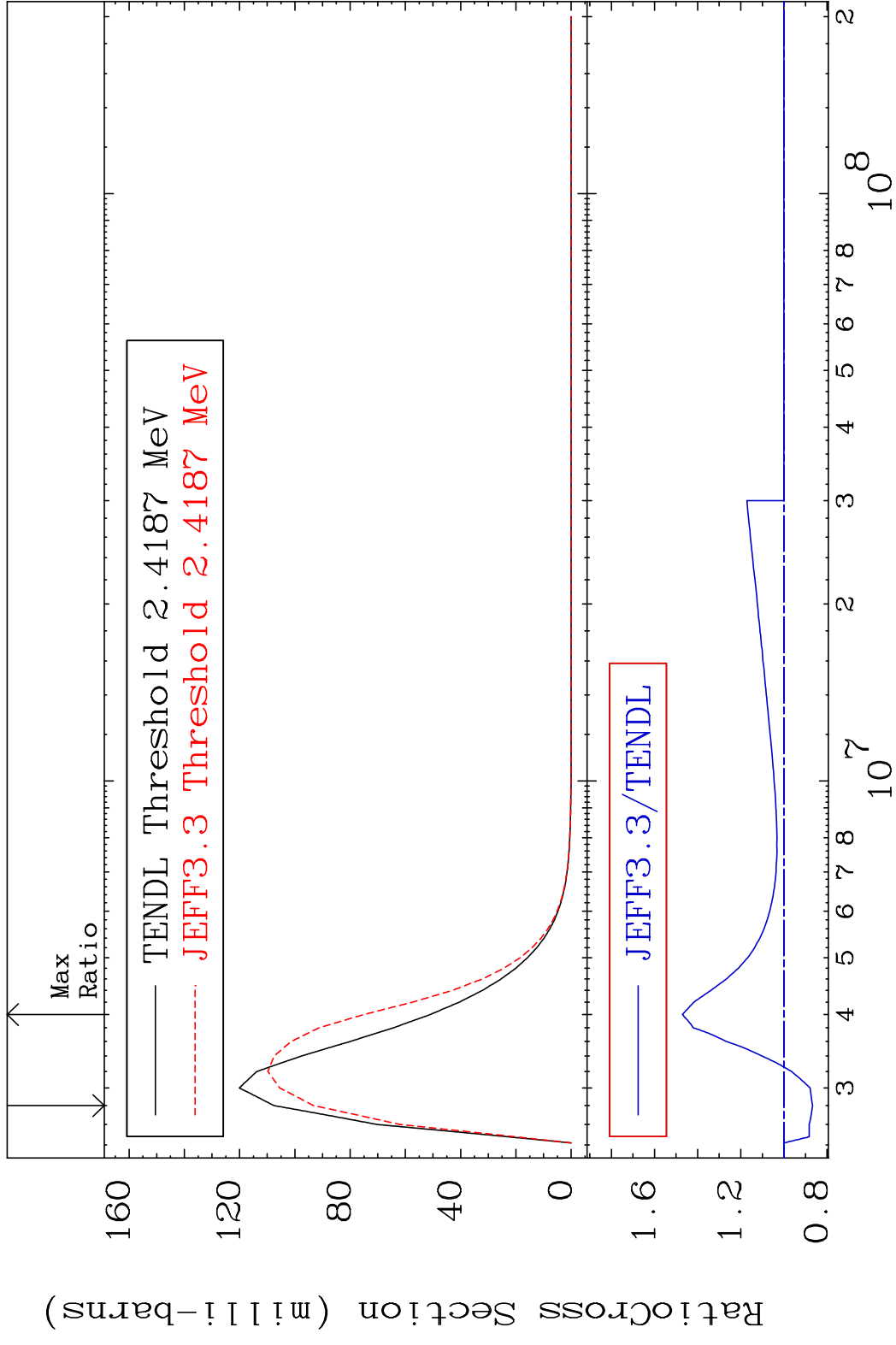
MAT 3825 MT= 56 (n,n') Level 38-Sr-84
 Cross Section -0.738 To 45.67 %



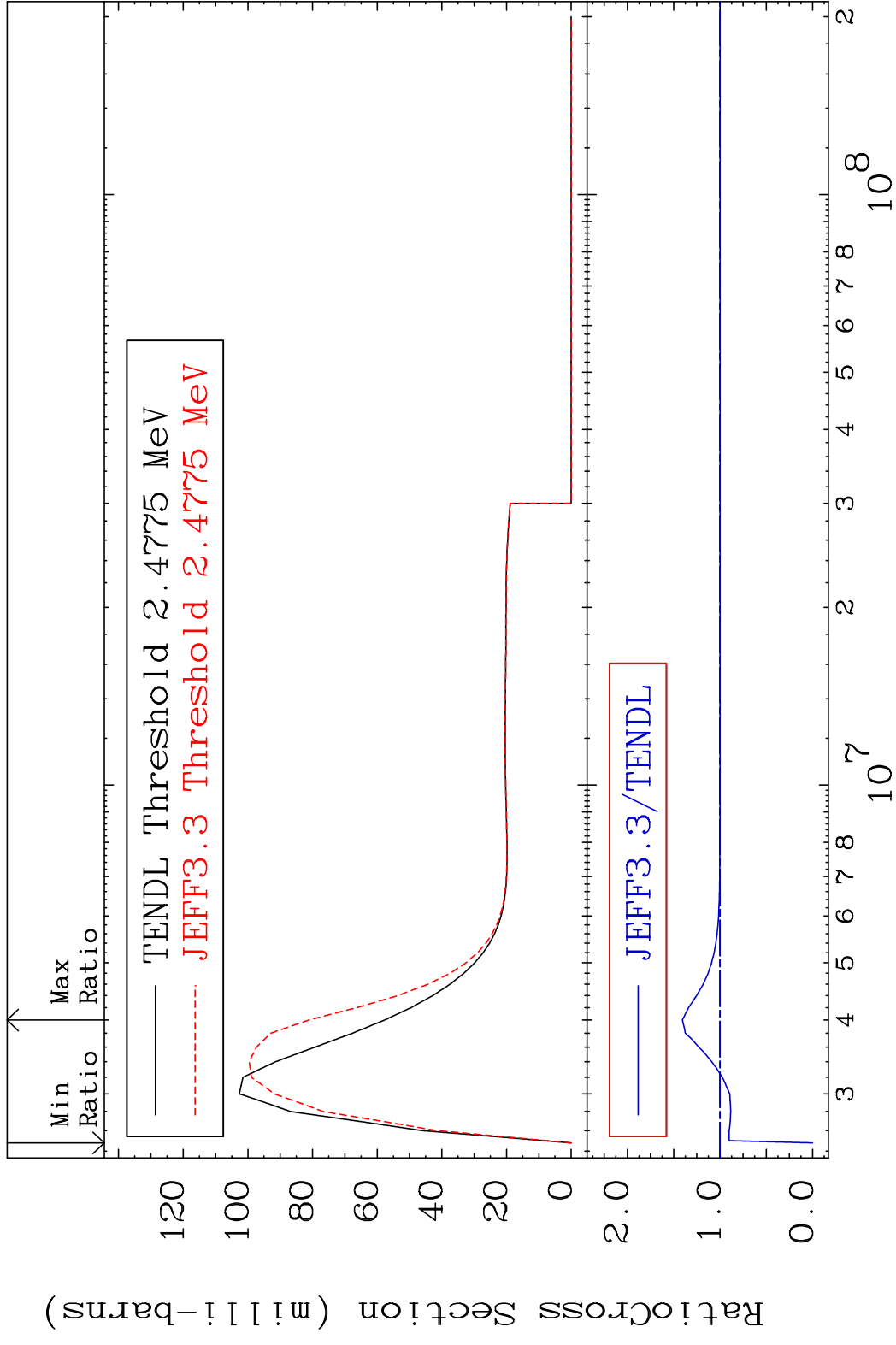
MAT 3825 MT= 57 (n, n') Level 38-Sr-84
 Cross Section 0.000 To 399.2 %



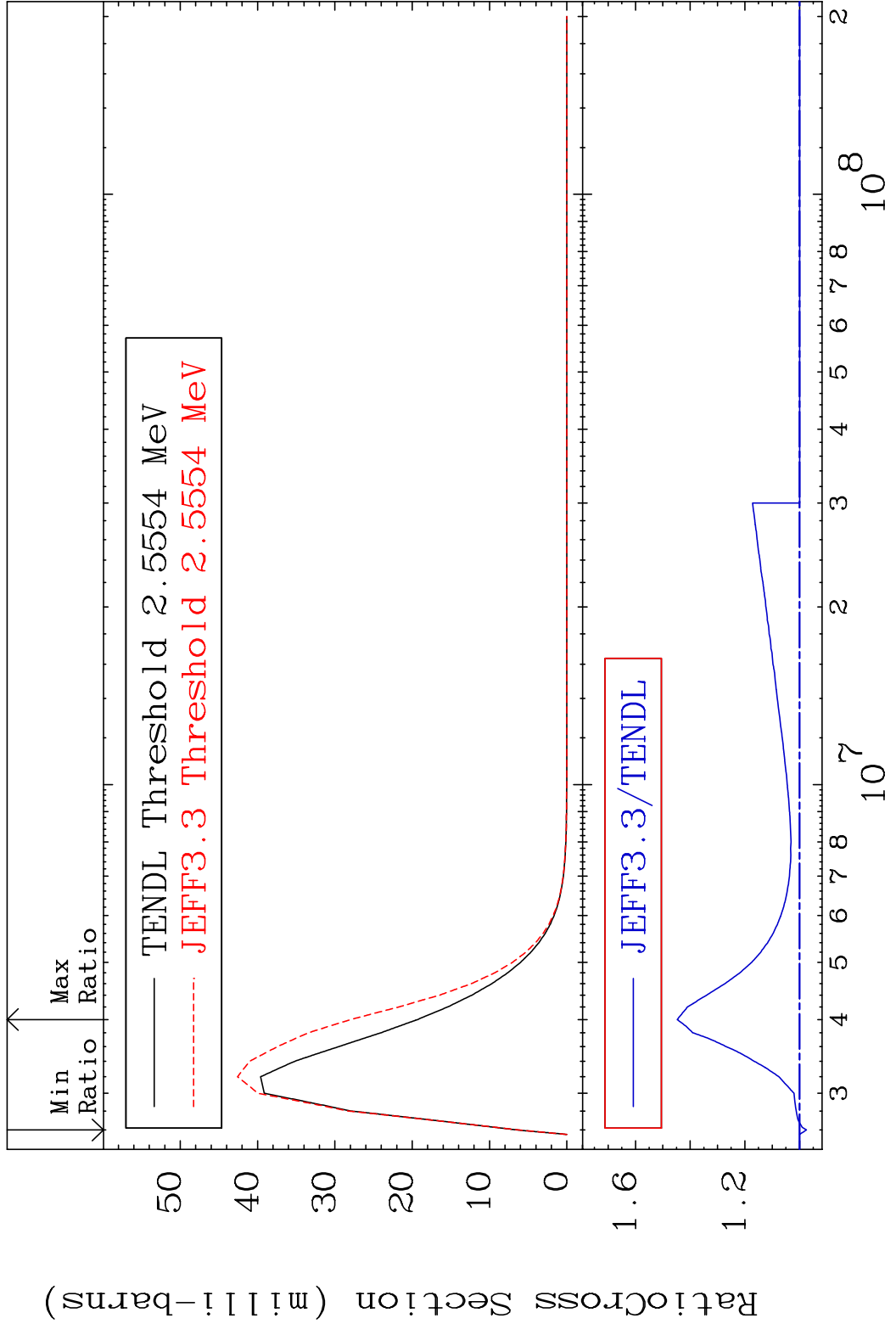
MAT 3825 MT= 58 (n, n') Level 38-Sr-84
 Cross Section -13.28 To 47.08 %



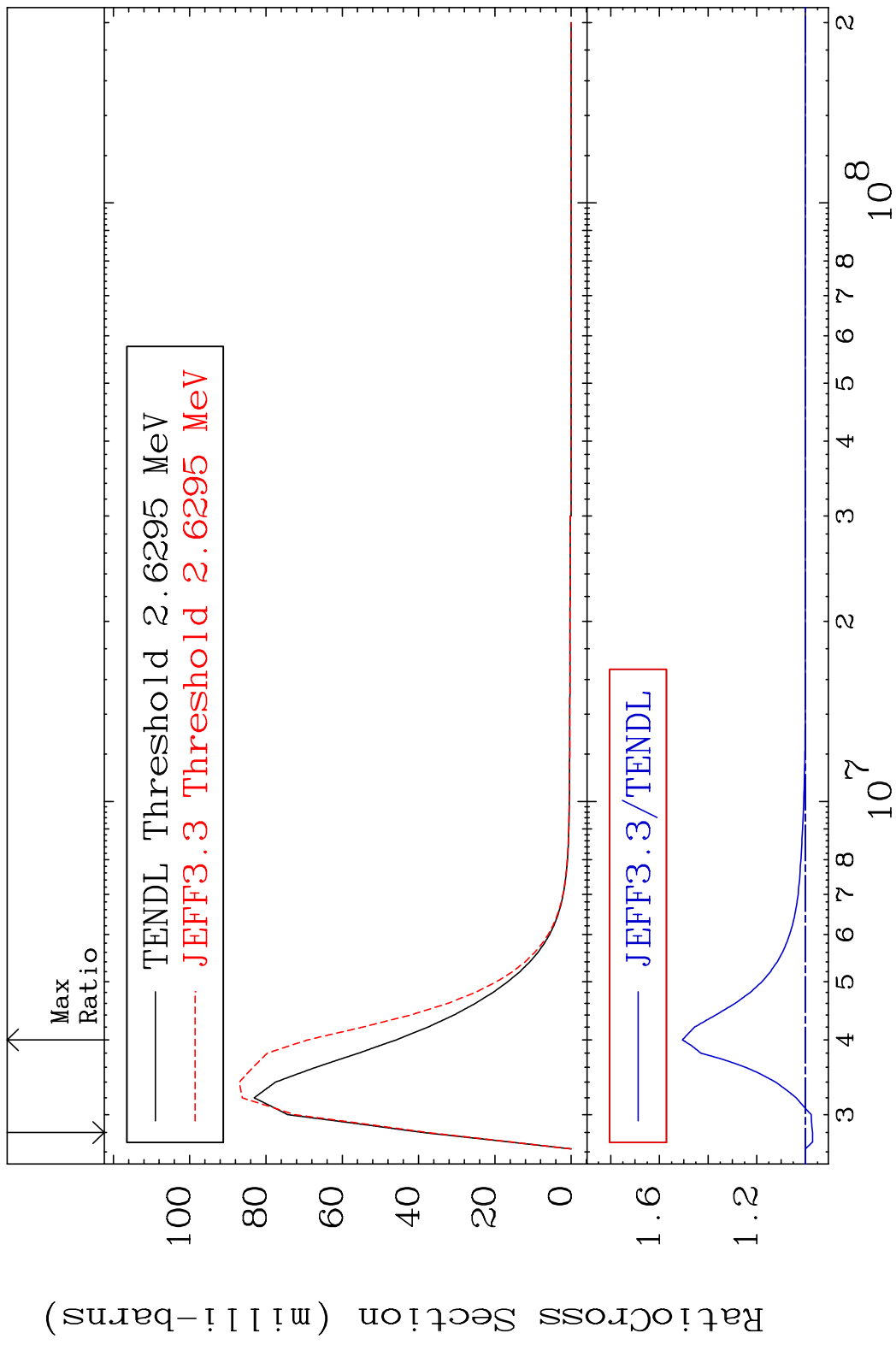
MAT 3825 MT= 59 (n, n') Level 38-Sr-84
 Cross Section -100.0 To 40.65 %



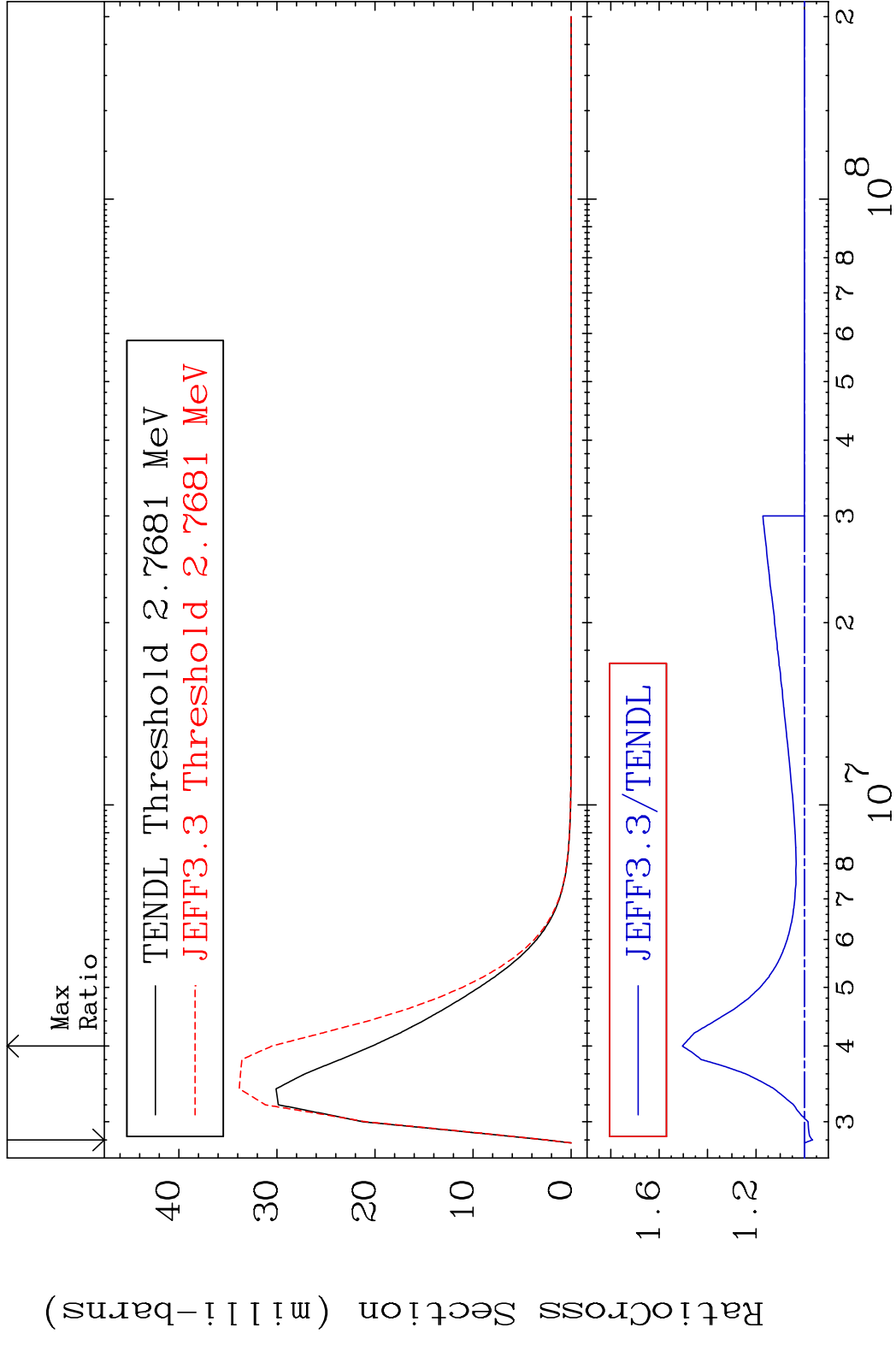
MAT 3825 MT= 60 (n, n') Level 38-Sr-84
 Cross Section -2.503 To 44.75 %



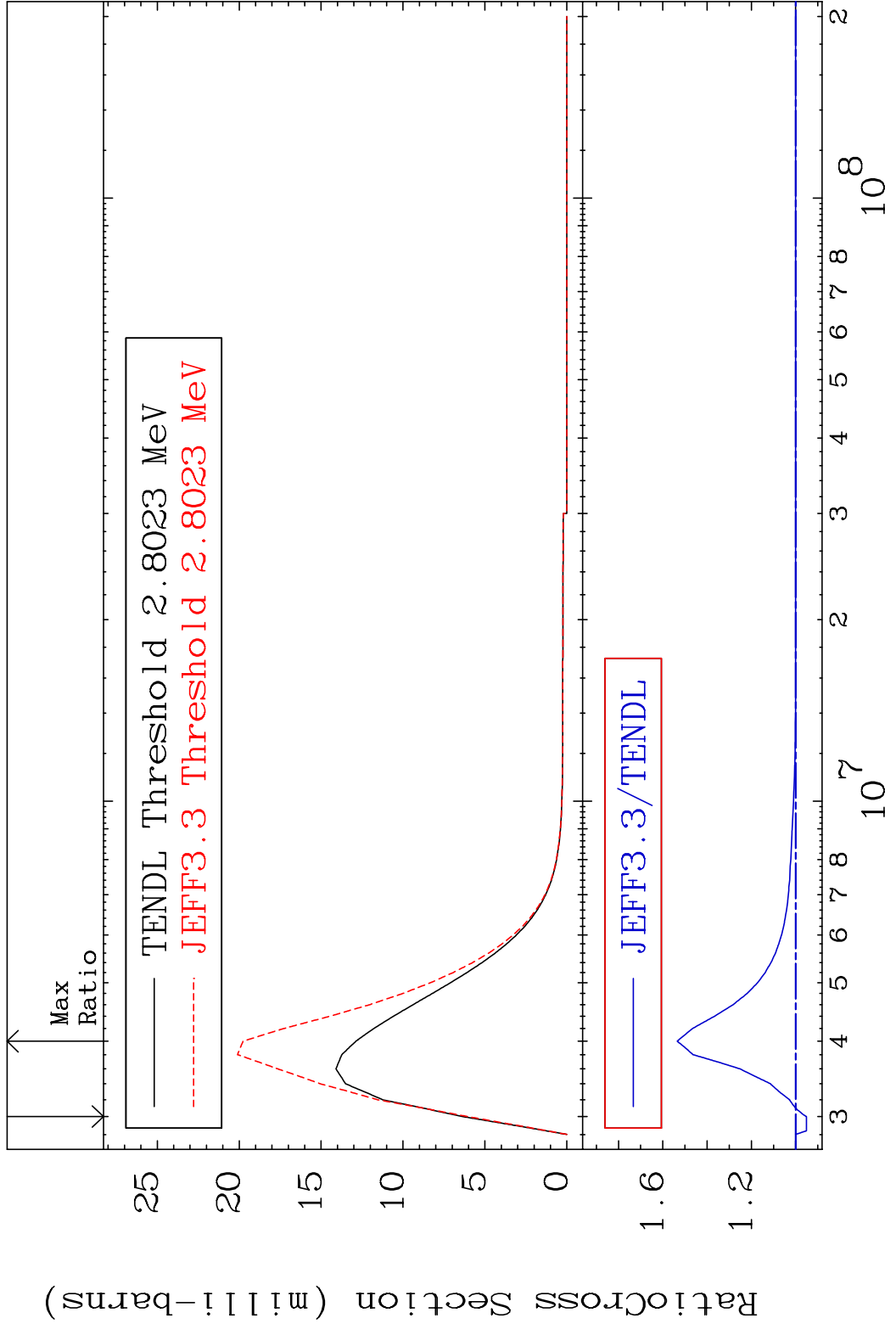
MAT 3825 MT= 61 (n, n') Level 38-Sr-84
 Cross Section -2.940 To 50.56 %



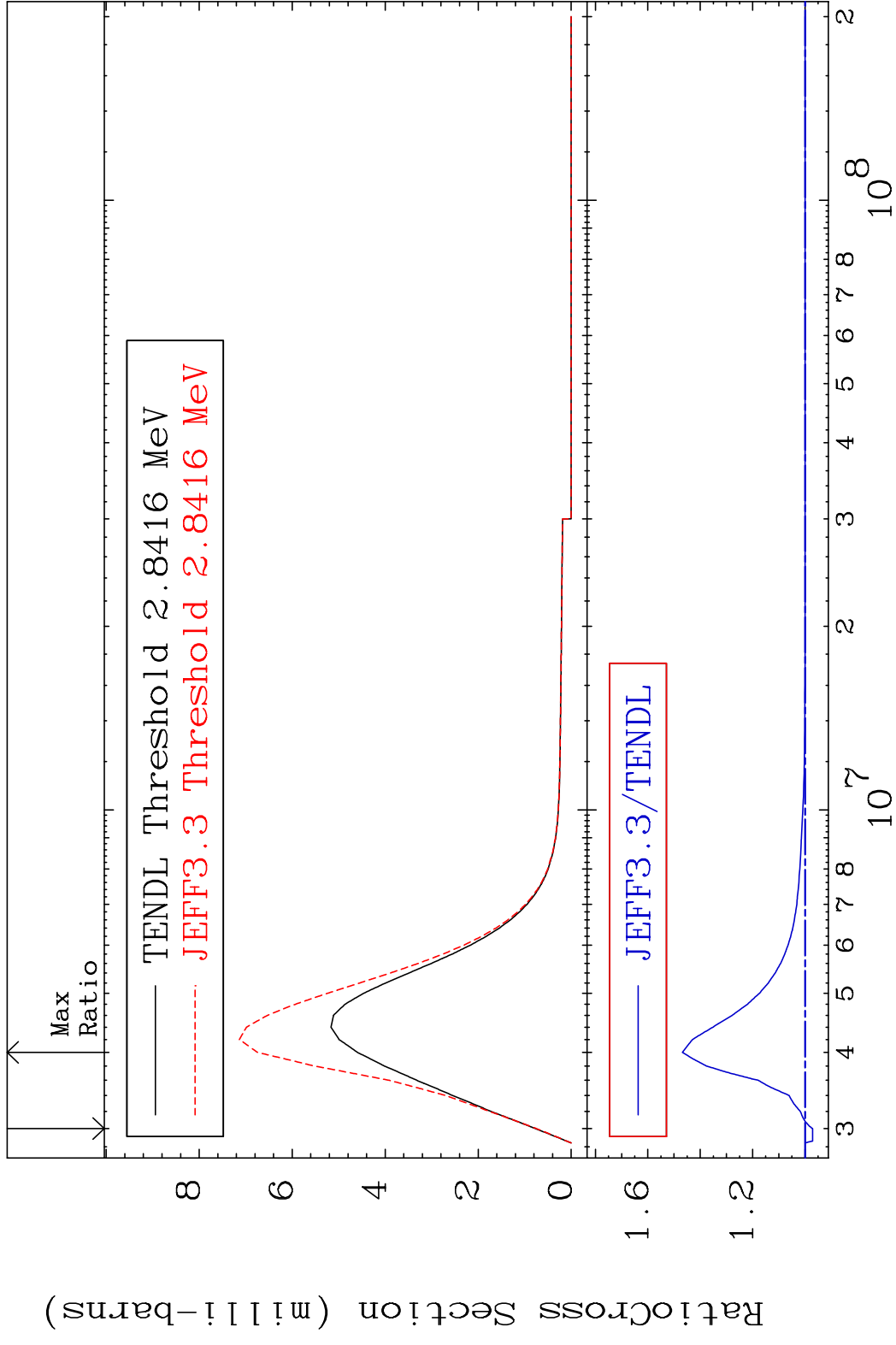
MAT 3825 MT= 62 (n, n') Level 38-Sr-84
 Cross Section -3.377 To 50.41 %



MAT 3825 MT= 63 (n, n') Level 38-Sr-84
 Cross Section -4.835 To 53.50 %

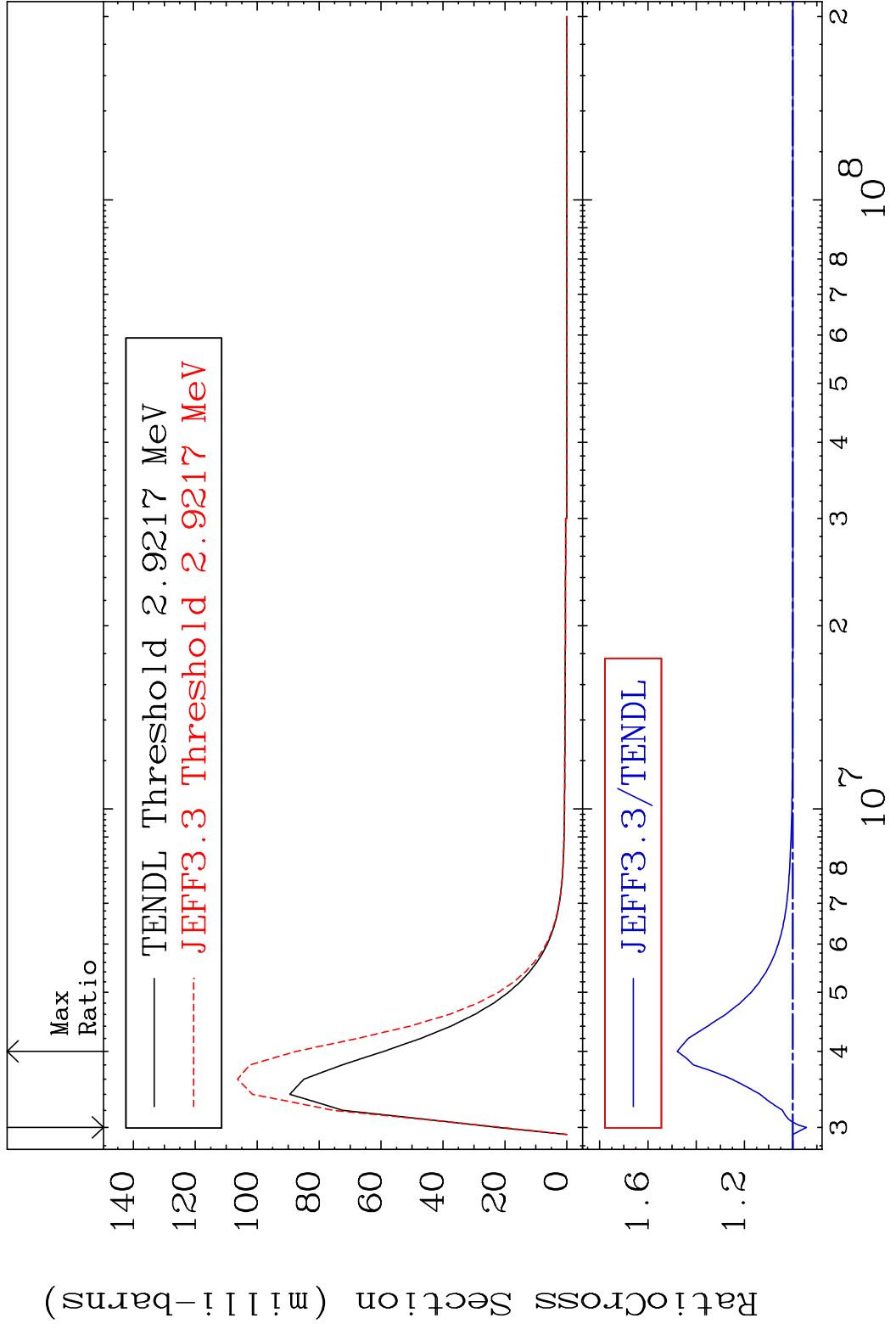


MAT 3825 MT= 64 (n, n') Level 38-Sr-84
 Cross Section -2.878 To 46.82 %



30 Incident Energy (eV) 38-Sr-84

MAT 3825 MT= 65 (n, n') Level 38-Sr-84
 Cross Section -5.650 To 47.88 %

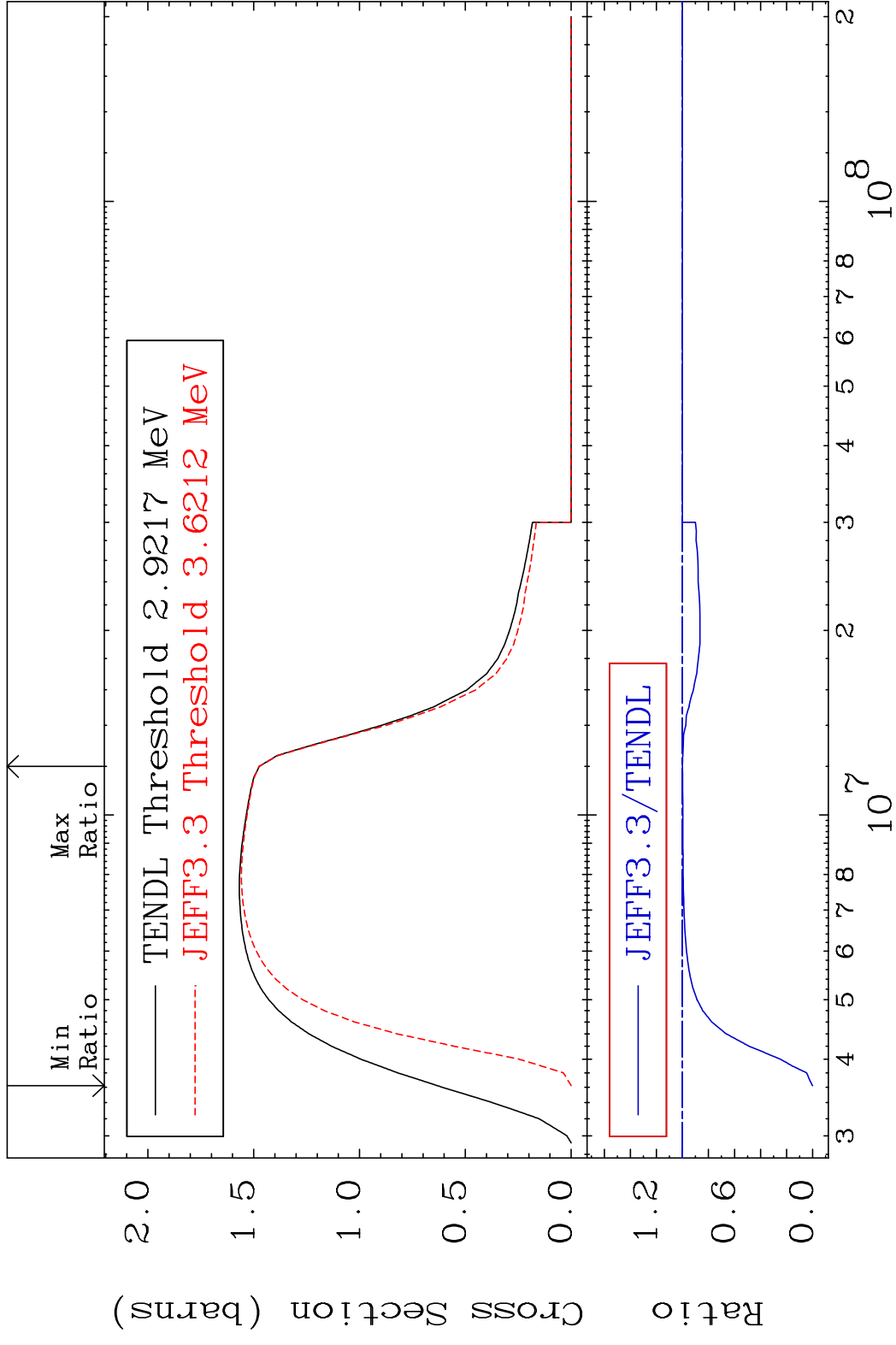


MAT 3825

(n, n') Continuum

38-Sr-84

Cross Section -100.0 To 0.089 %



32

Incident Energy (eV)

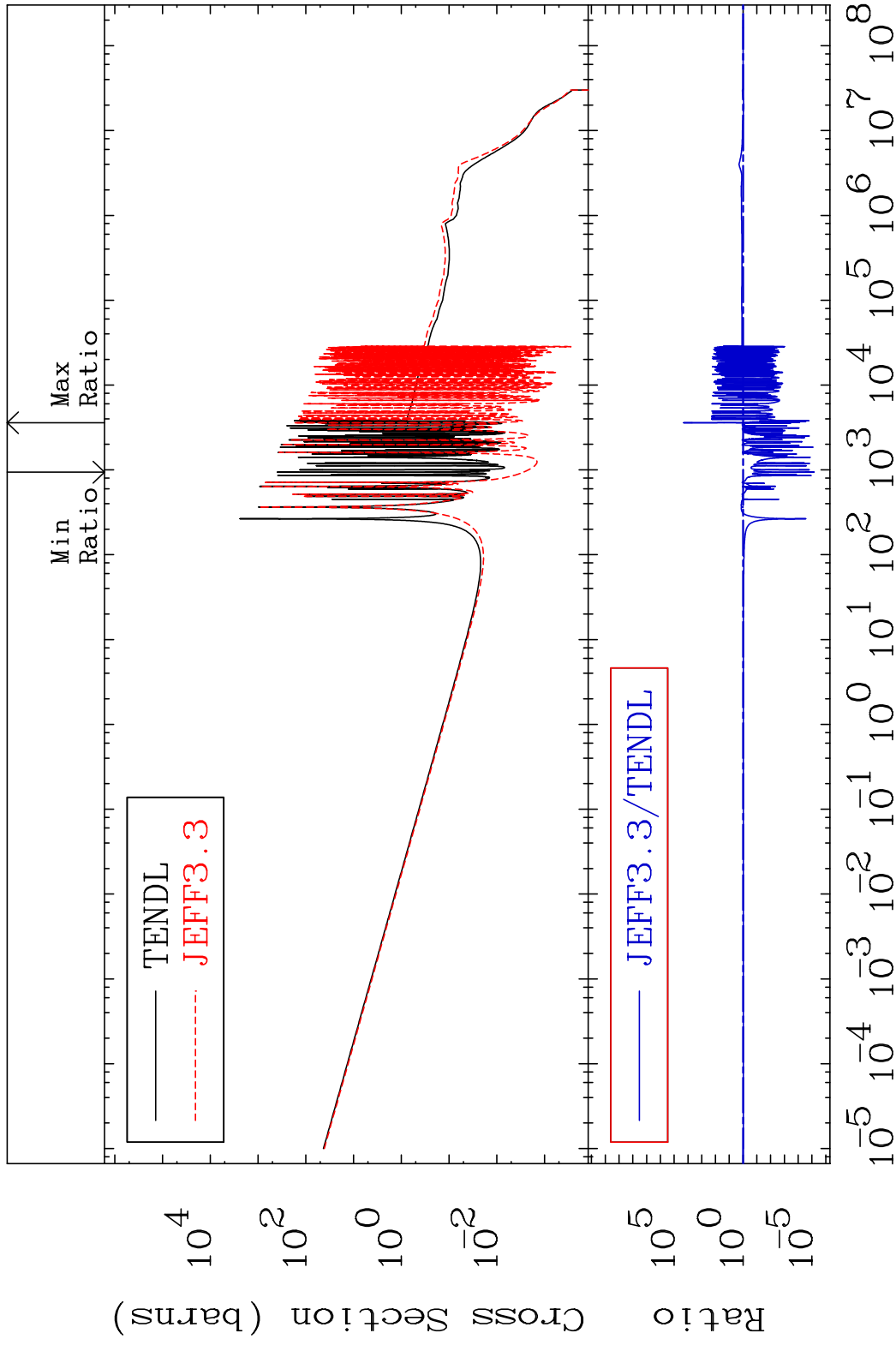
38-Sr-84

MAT 3825

(n, γ)

38-Sr-84

Cross Section -100.0 To 9999. %



33

Incident Energy (eV)

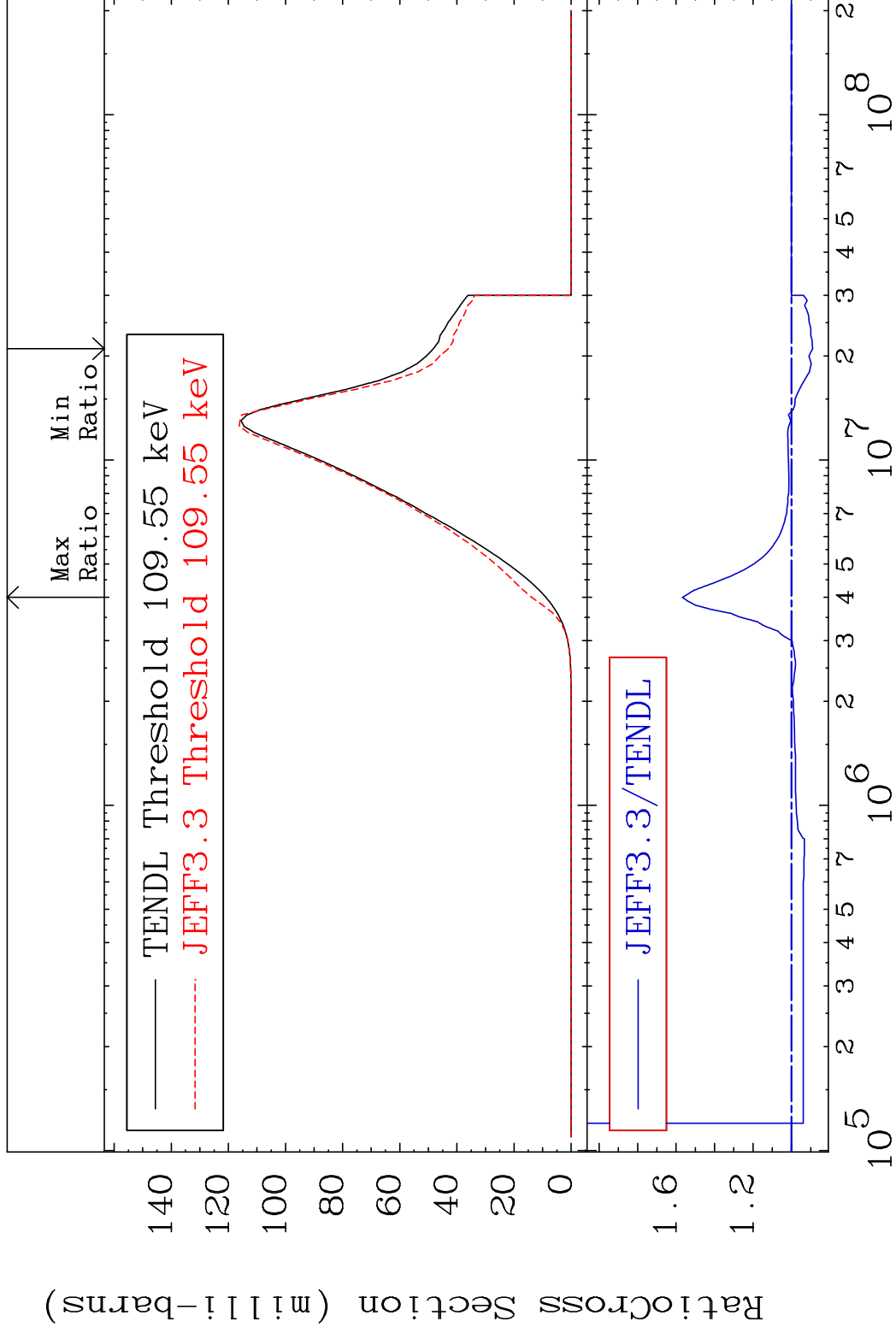
38-Sr-84

MAT 3825

(n, p)

38-Sr-84

Cross Section -10.95 To 56.73 %

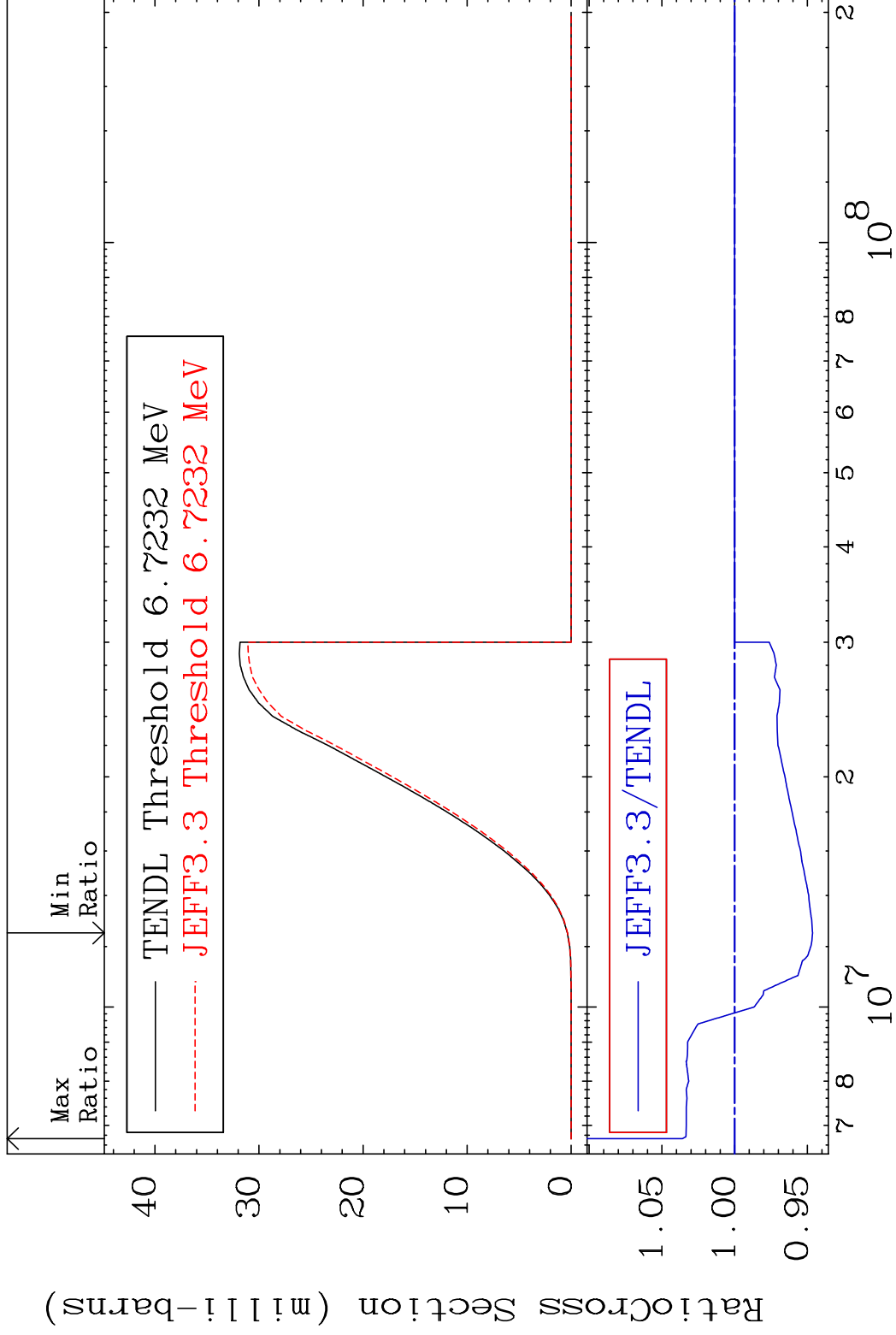


MAT 3825

(n, d)

38-Sr-84

Cross Section -5.352 To 3.598 %



35

Incident Energy (eV)

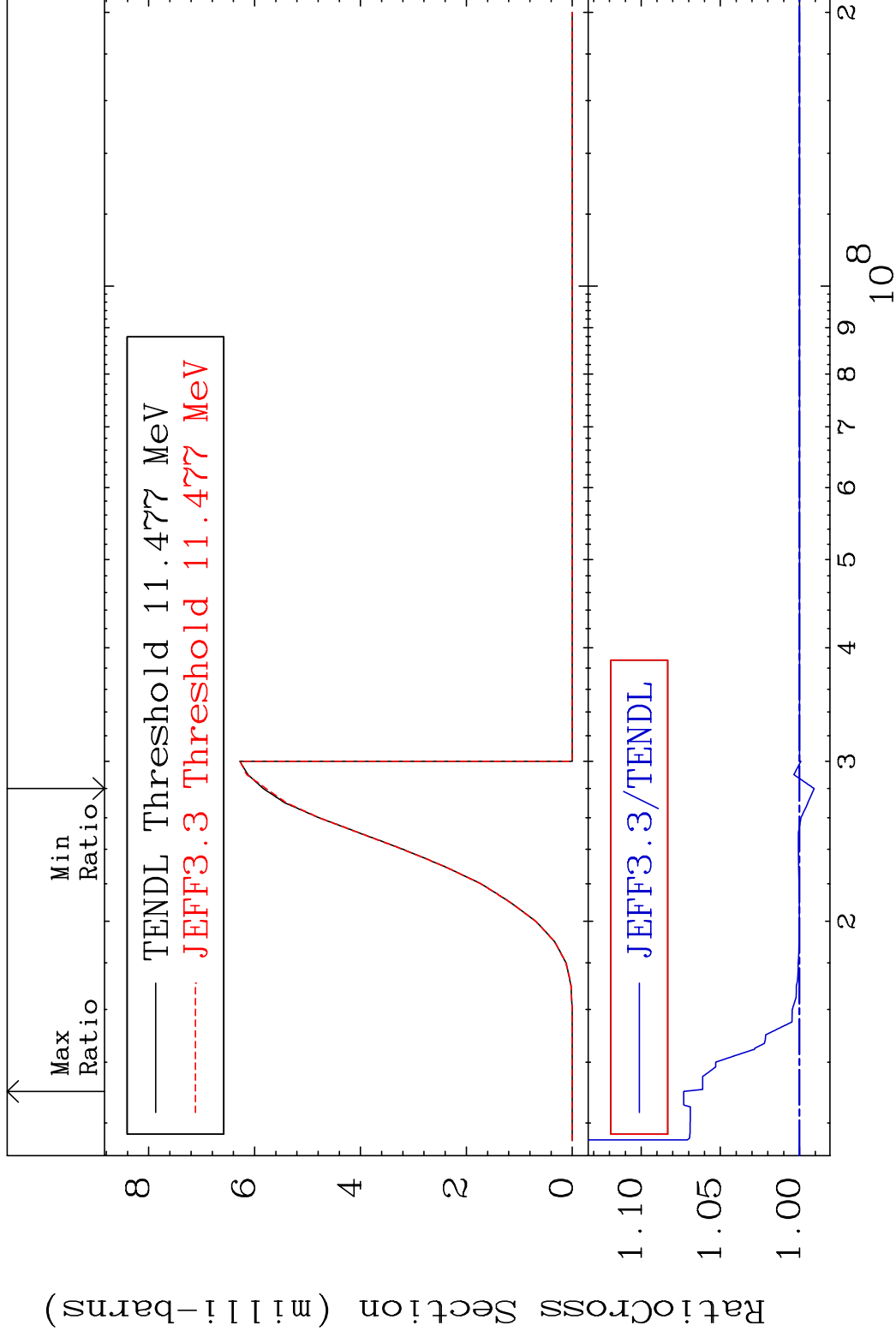
38-Sr-84

MAT 3825

(n, t)

38-Sr-84

Cross Section -0.923 To 7.316 %

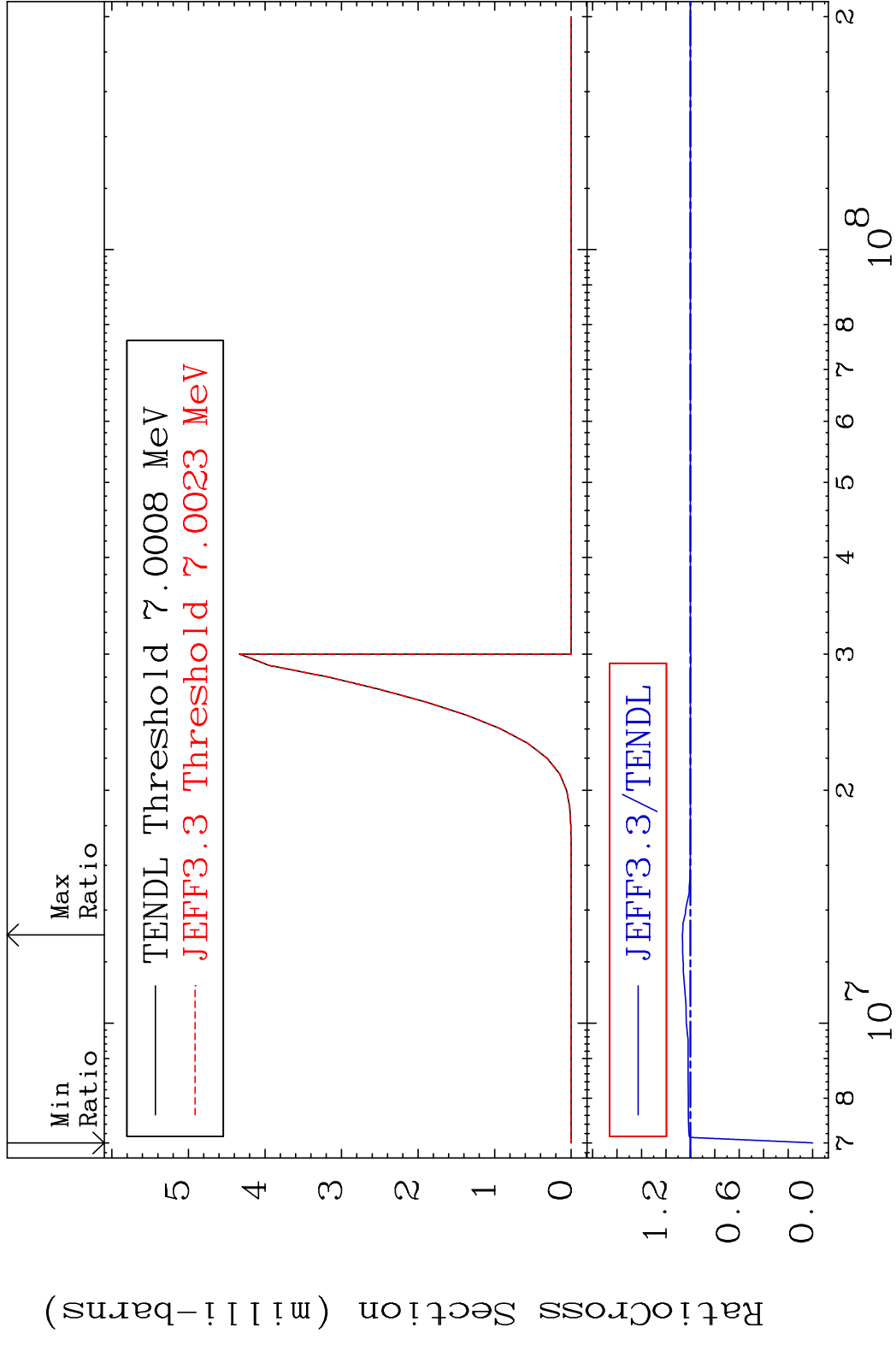


36

Incident Energy (eV)

38-Sr-84

MAT 3825 (n, He-3) 38-Sr-84
 Cross Section -100.0 To 6.543 %

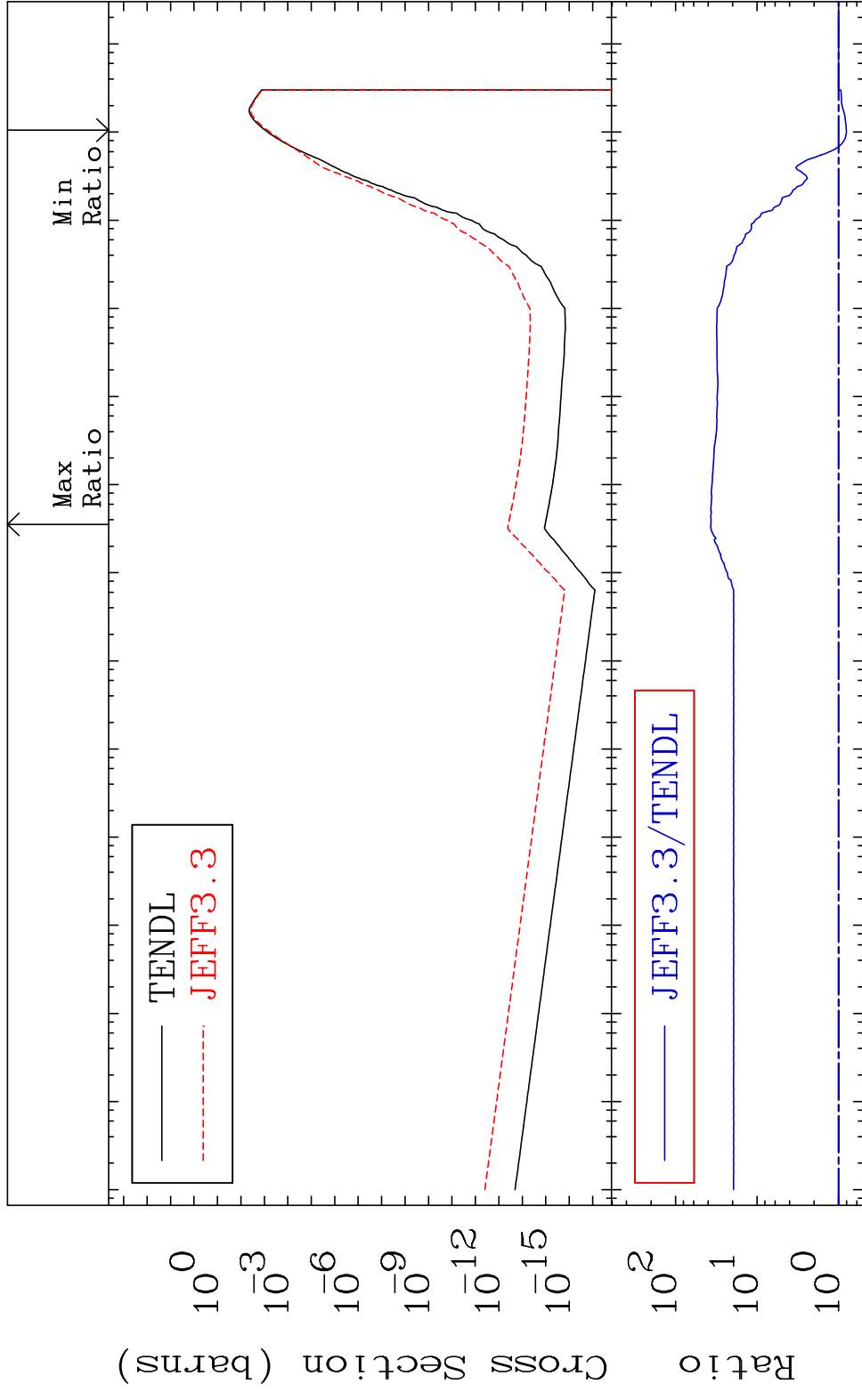


MAT 3825

38-Sr-84

(n, α)

Cross Section -19.50 To 3610. %



10⁰ 10⁻³ 10⁻⁶ 10⁻⁹ 10⁻¹² 10⁻¹⁵ 10² 10¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

38

Incident Energy (eV)

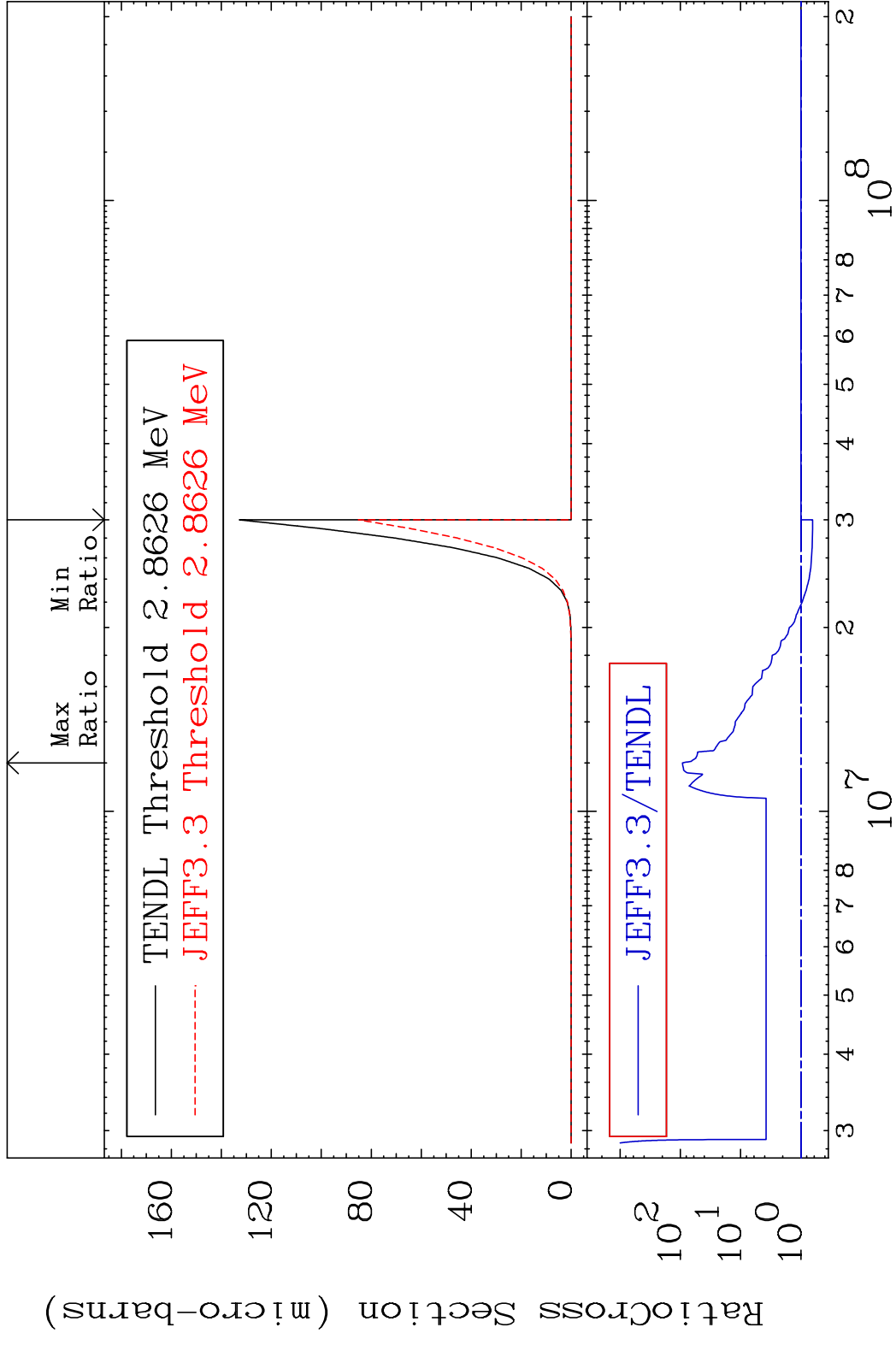
38-Sr-84

MAT 3825

(n,2α)

38-Sr-84

Cross Section -35.90 To 9166. %



39

Incident Energy (eV)

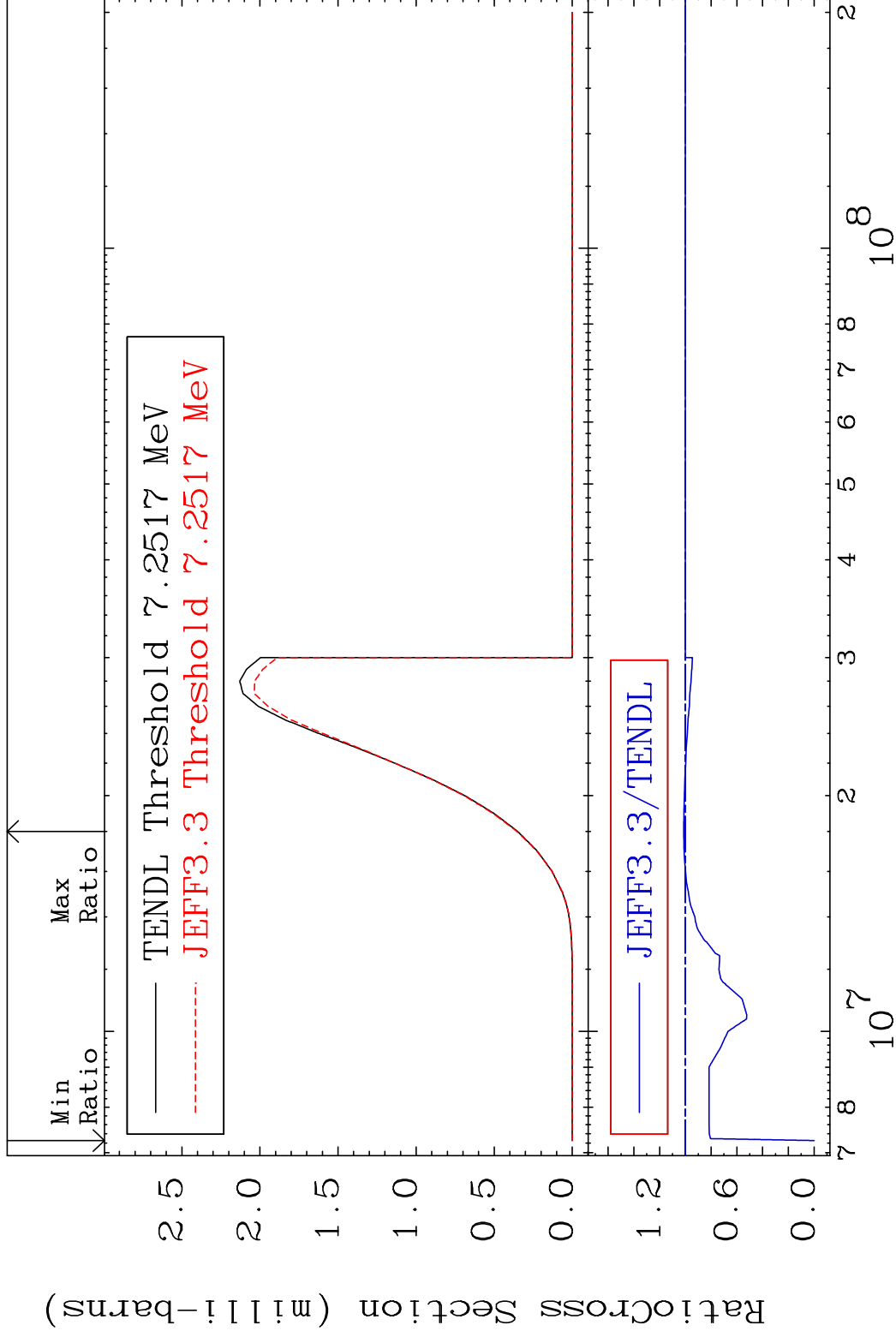
38-Sr-84

MAT 3825

(n,2p)

38-Sr-84

Cross Section -100.0 To 1.316 %

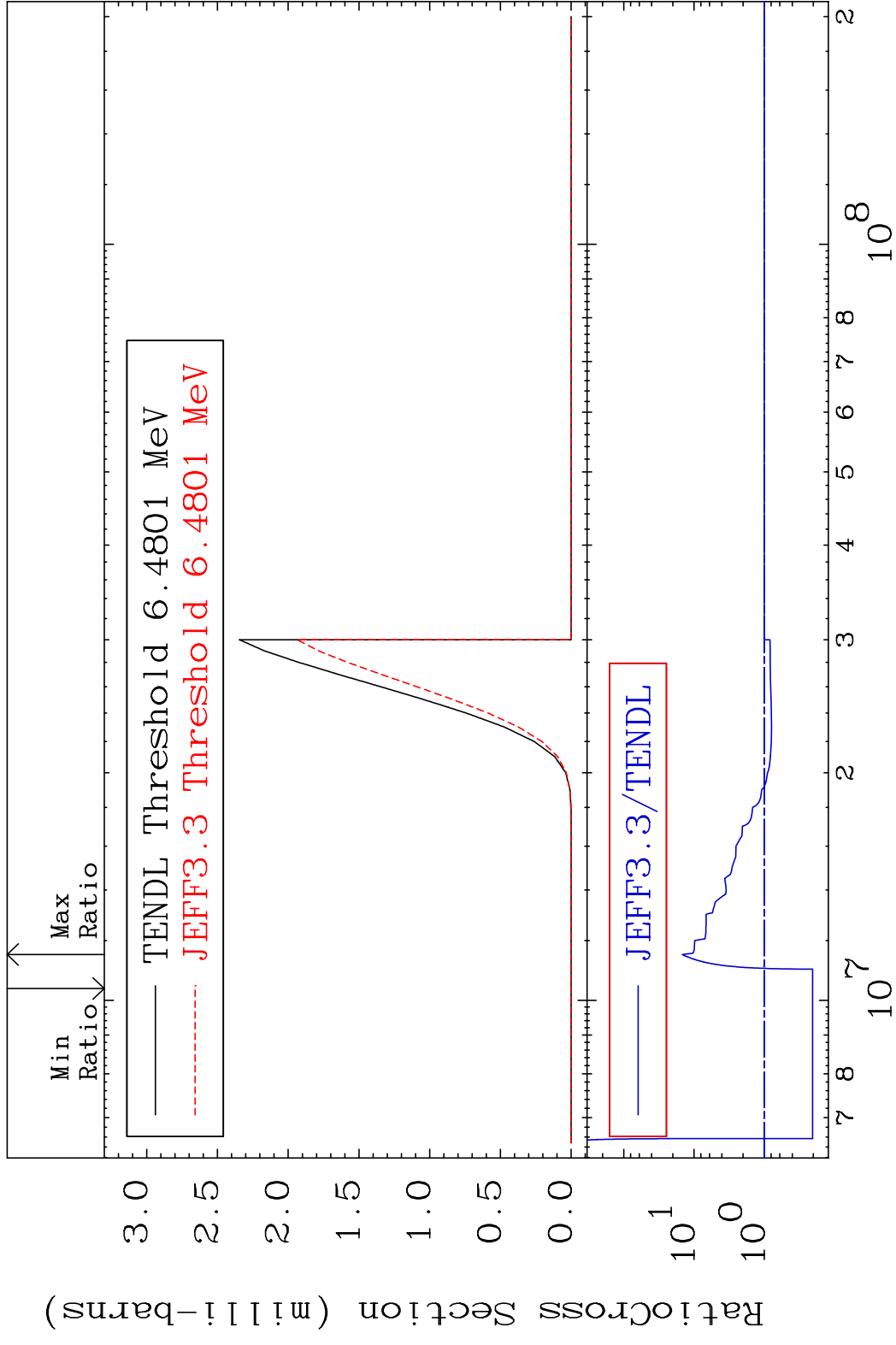


40

Incident Energy (eV)

38-Sr-84

MAT 3825 (n,p) α 38-Sr-84
 Cross Section -79.47 To 1364. %

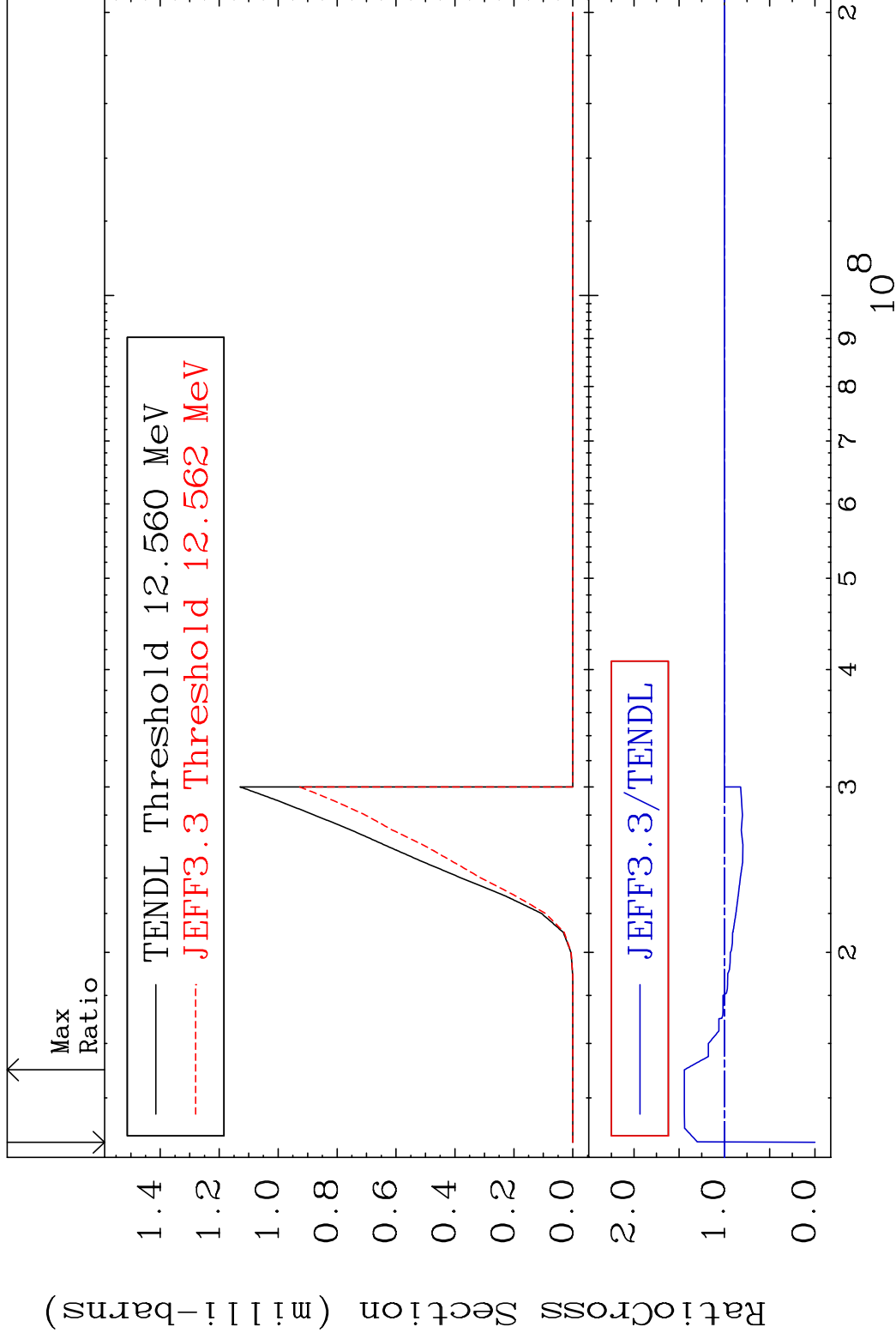


MAT 3825

(n,p) d

38-Sr-84

Cross Section -100.0 To 44.32 %

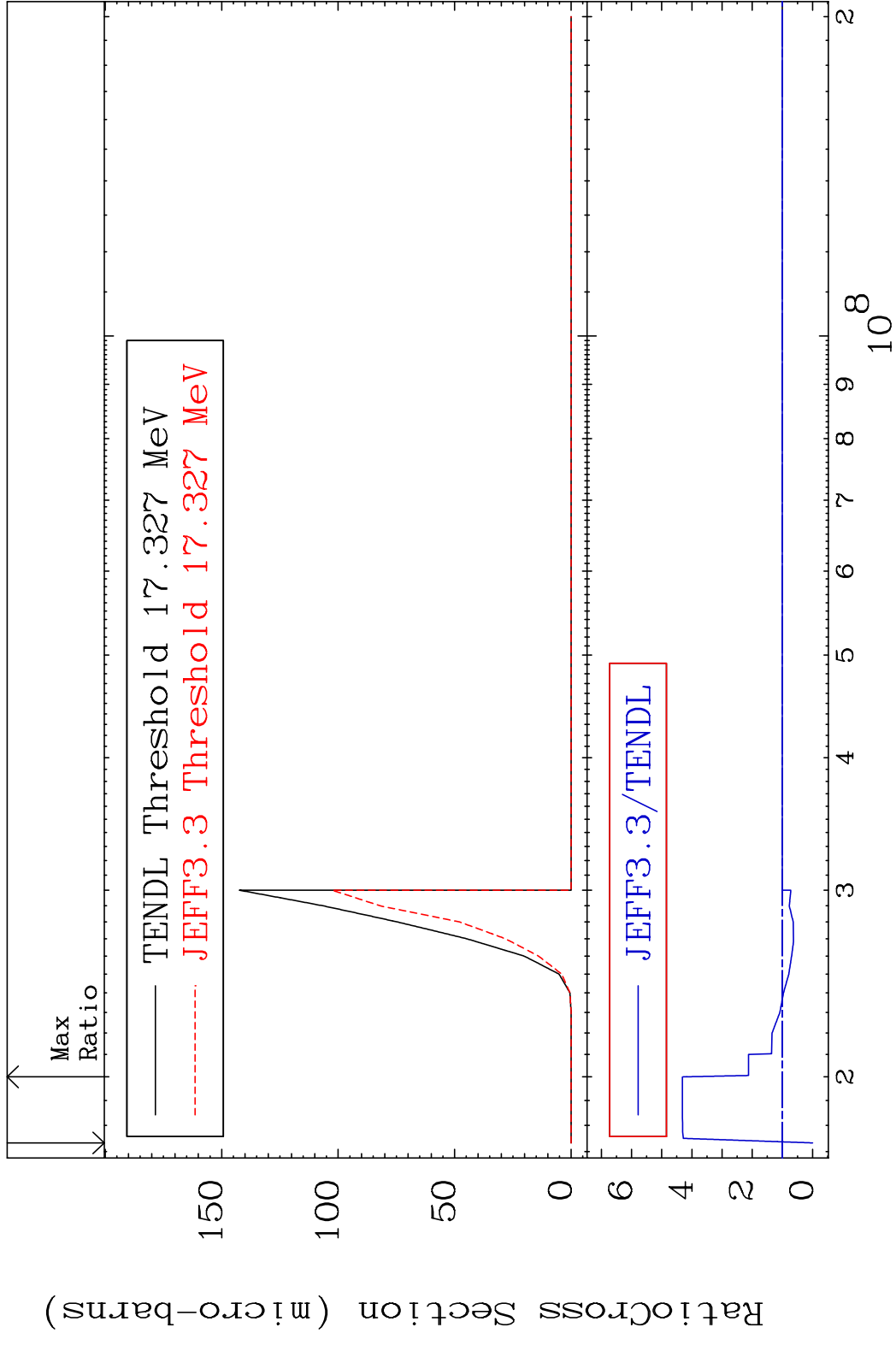


42

Incident Energy (eV)

38-Sr-84

MAT 3825 (n,p) t 38-Sr-84
 Cross Section -100.0 To 331.5 %

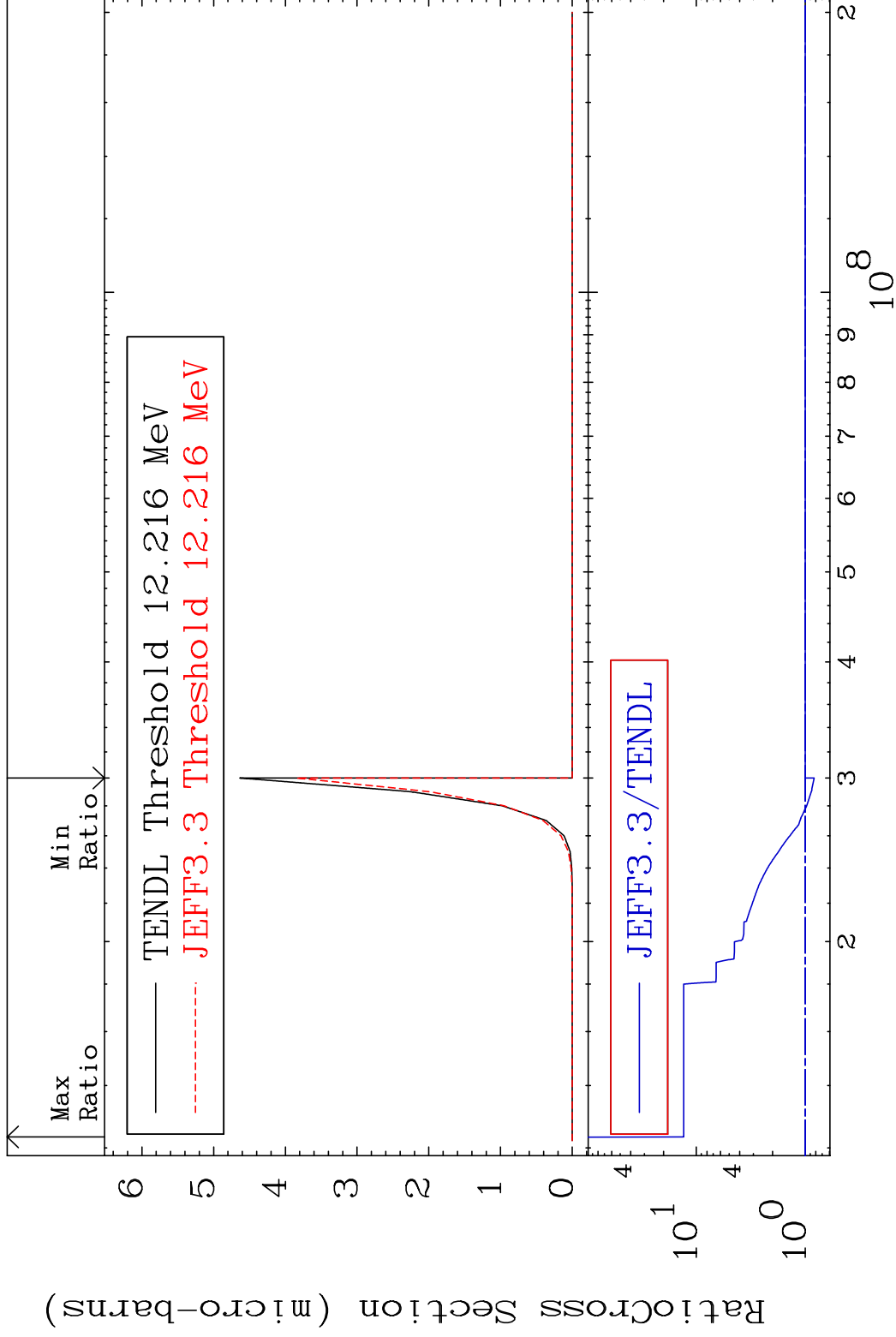


MAT 3825

(n,d) α

38-Sr-84

Cross Section -17.01 To 1208. %



44

Incident Energy (eV)

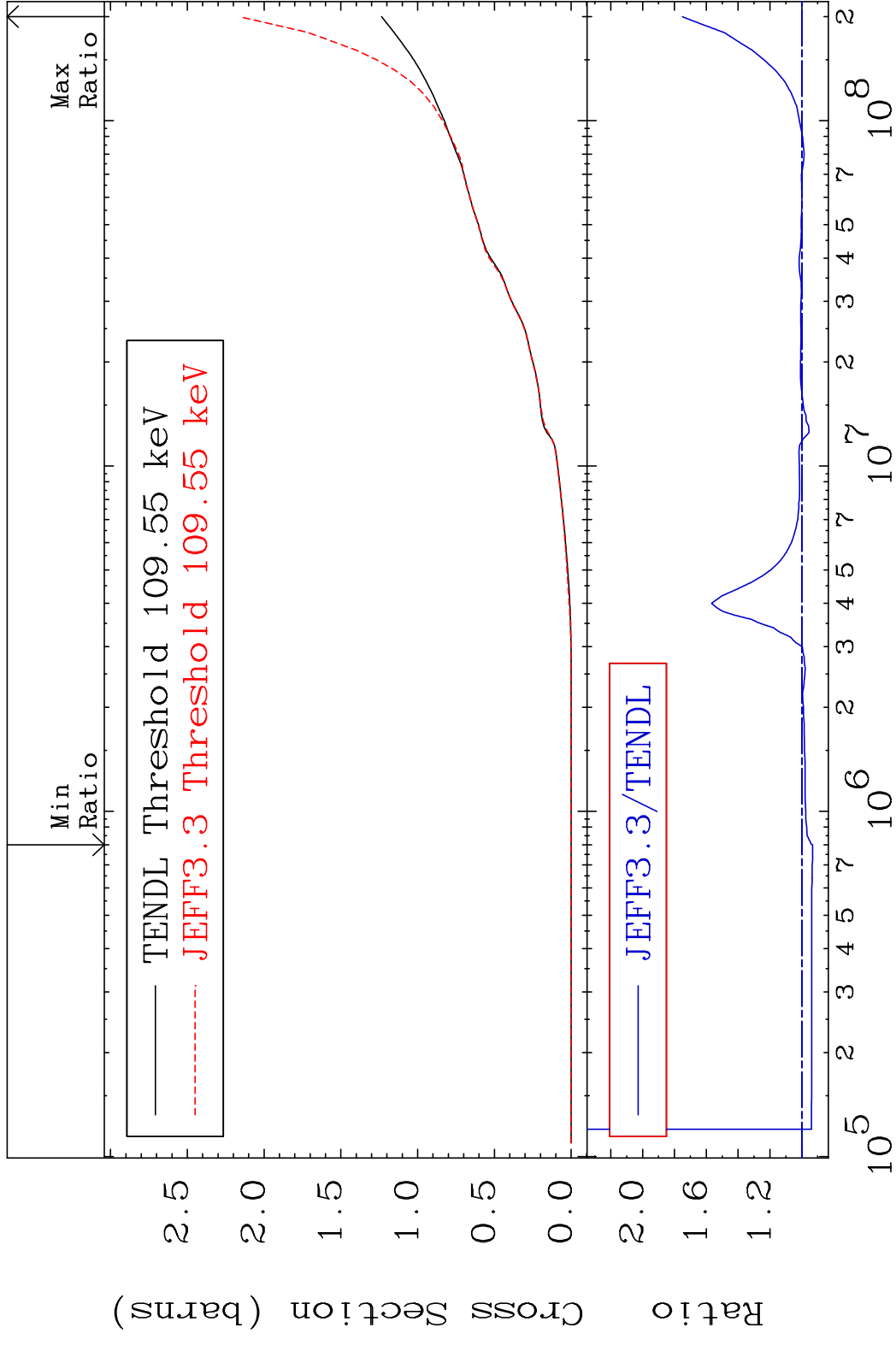
38-Sr-84

MAT 3825

Hydrogen Production

38-Sr-84

Cross Section -6.746 To 75.04 %



45

Incident Energy (eV)

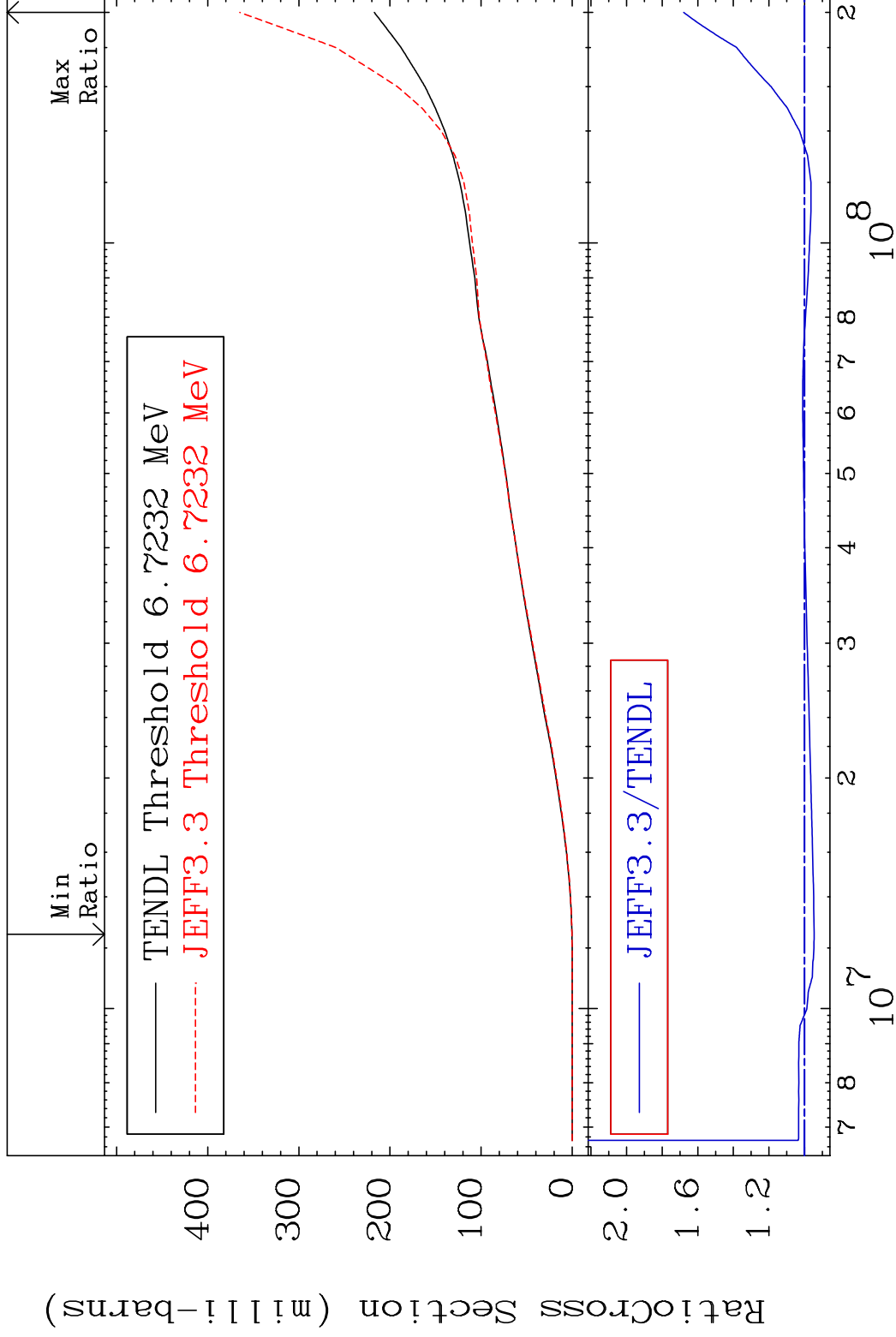
38-Sr-84

MAT 3825

Deuterium Production

38-Sr-84

Cross Section -5.352 To 67.94 %

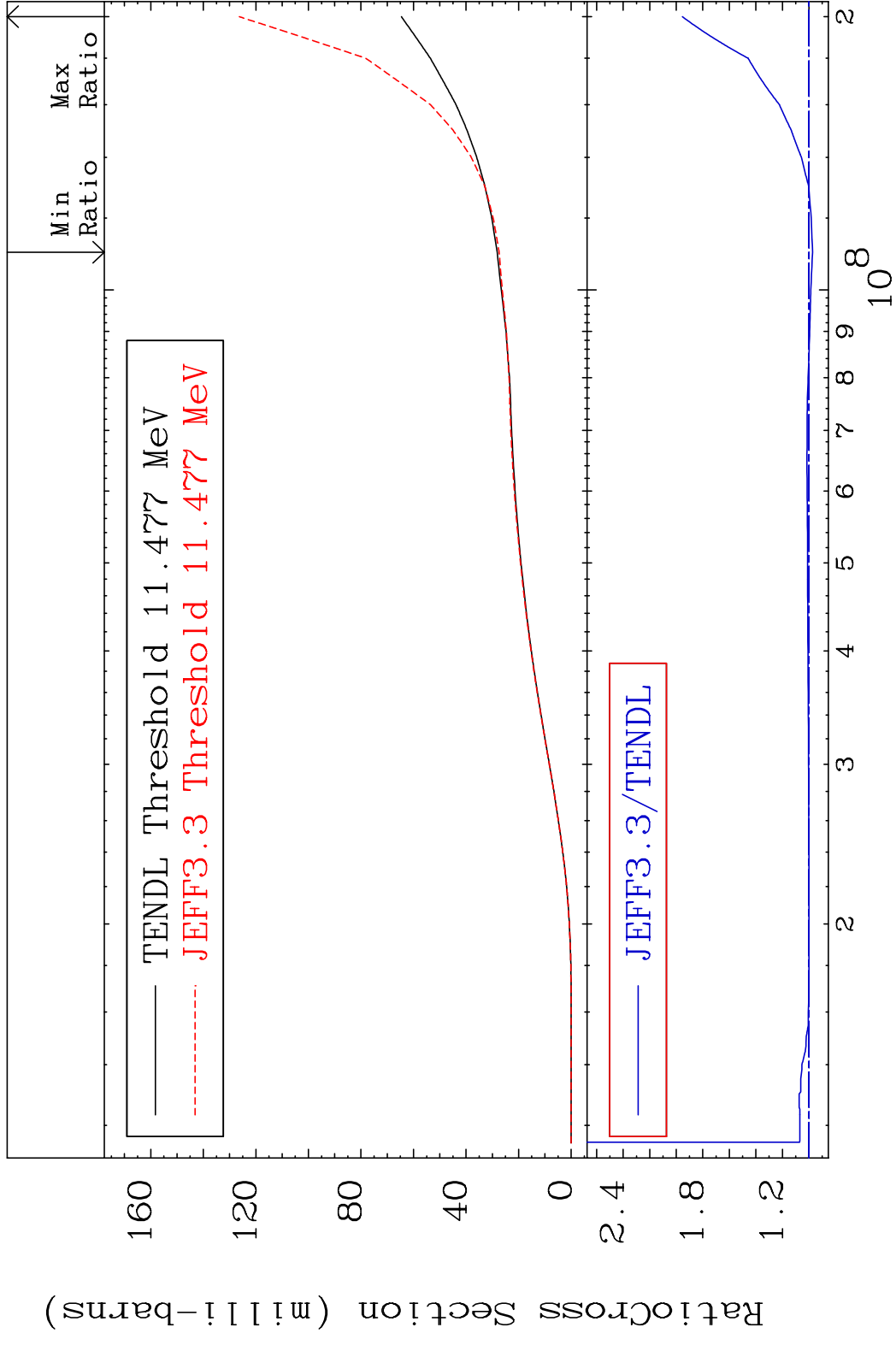


46

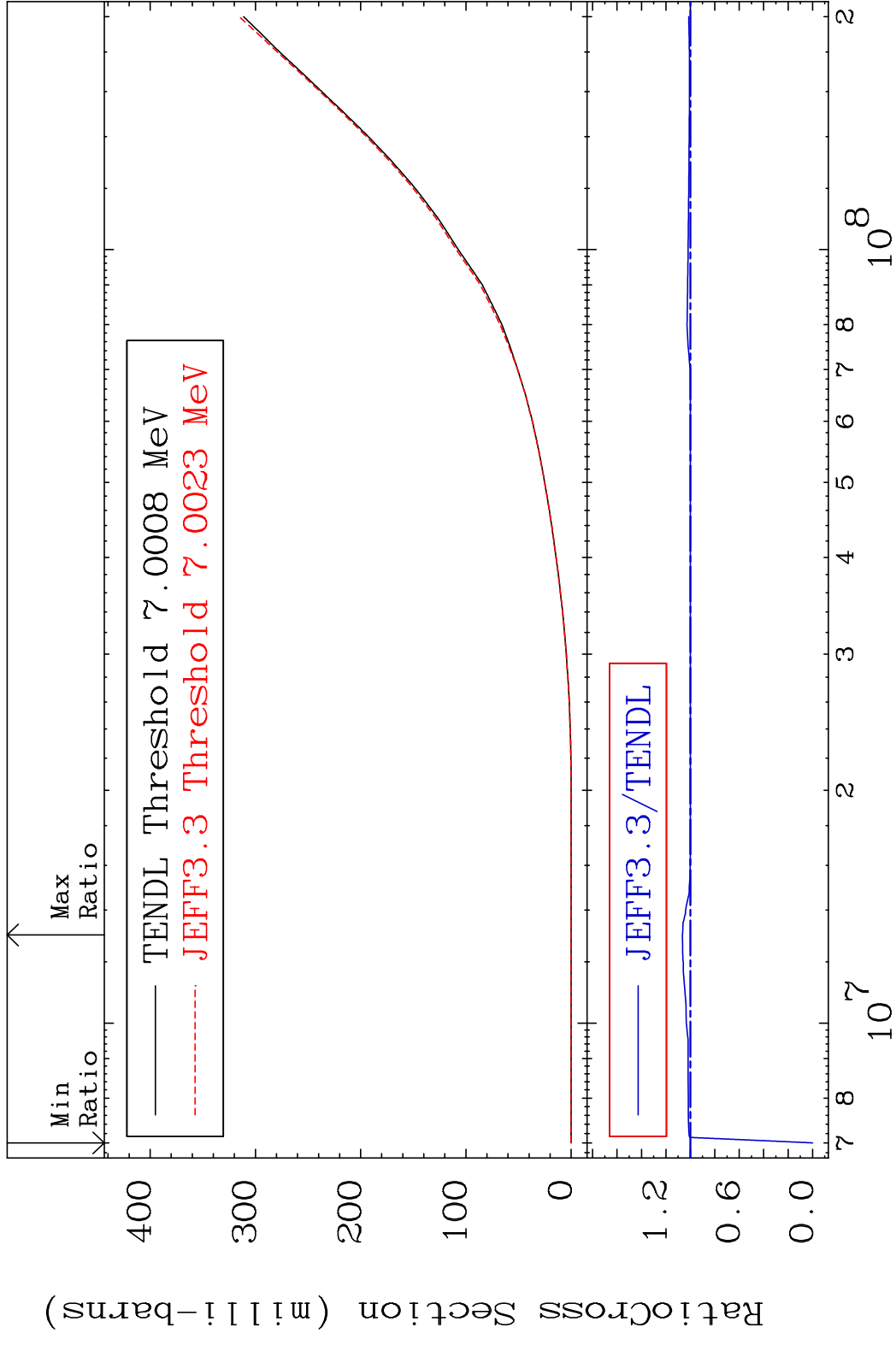
Incident Energy (eV)

38-Sr-84

MAT 3825 Tritium Production 38-Sr-84
 Cross Section -2.708 To 95.41 %



MAT 3825 He-3 Production 38-Sr-84
 Cross Section -100.0 To 6.543 %

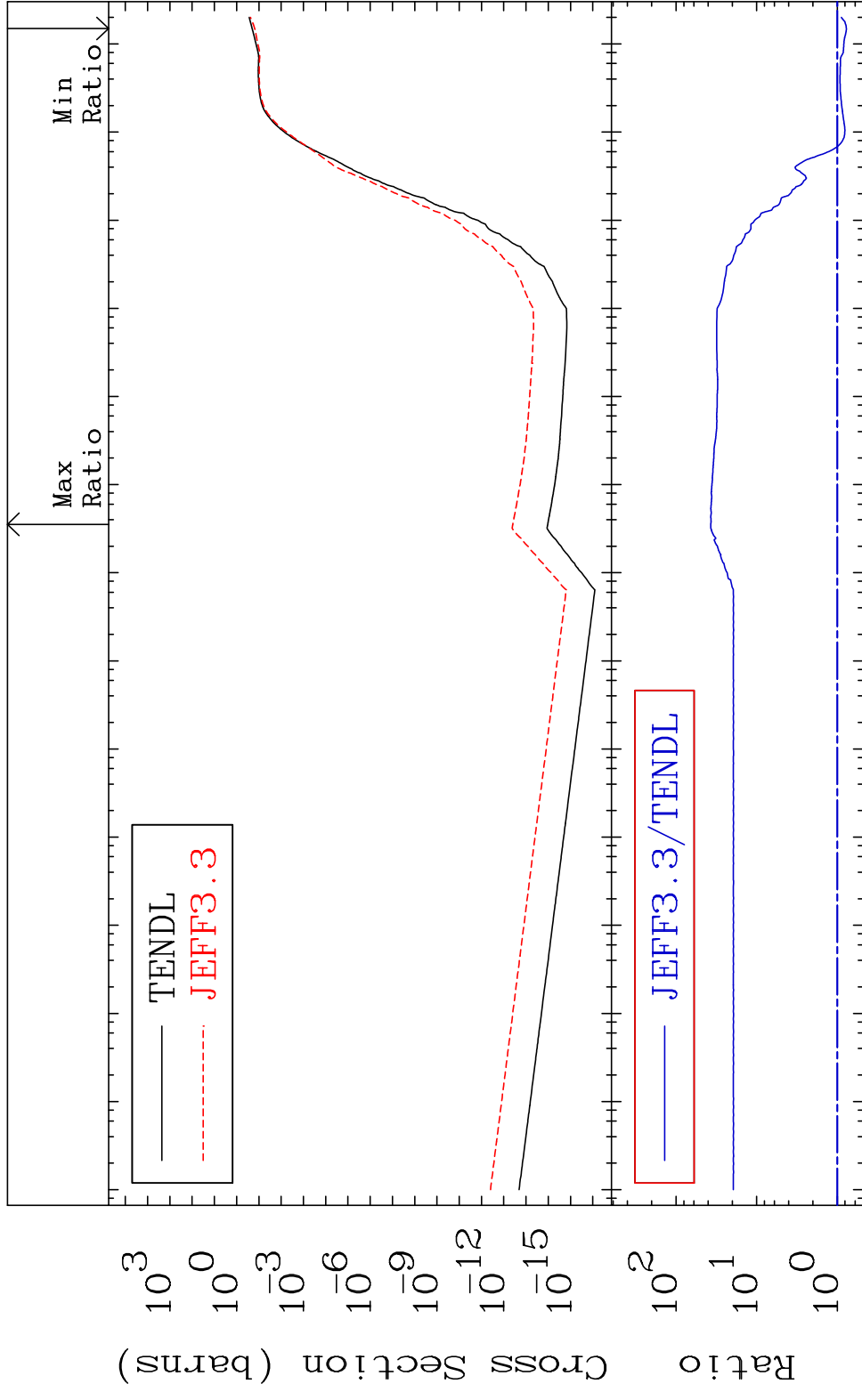


48 38-Sr-84

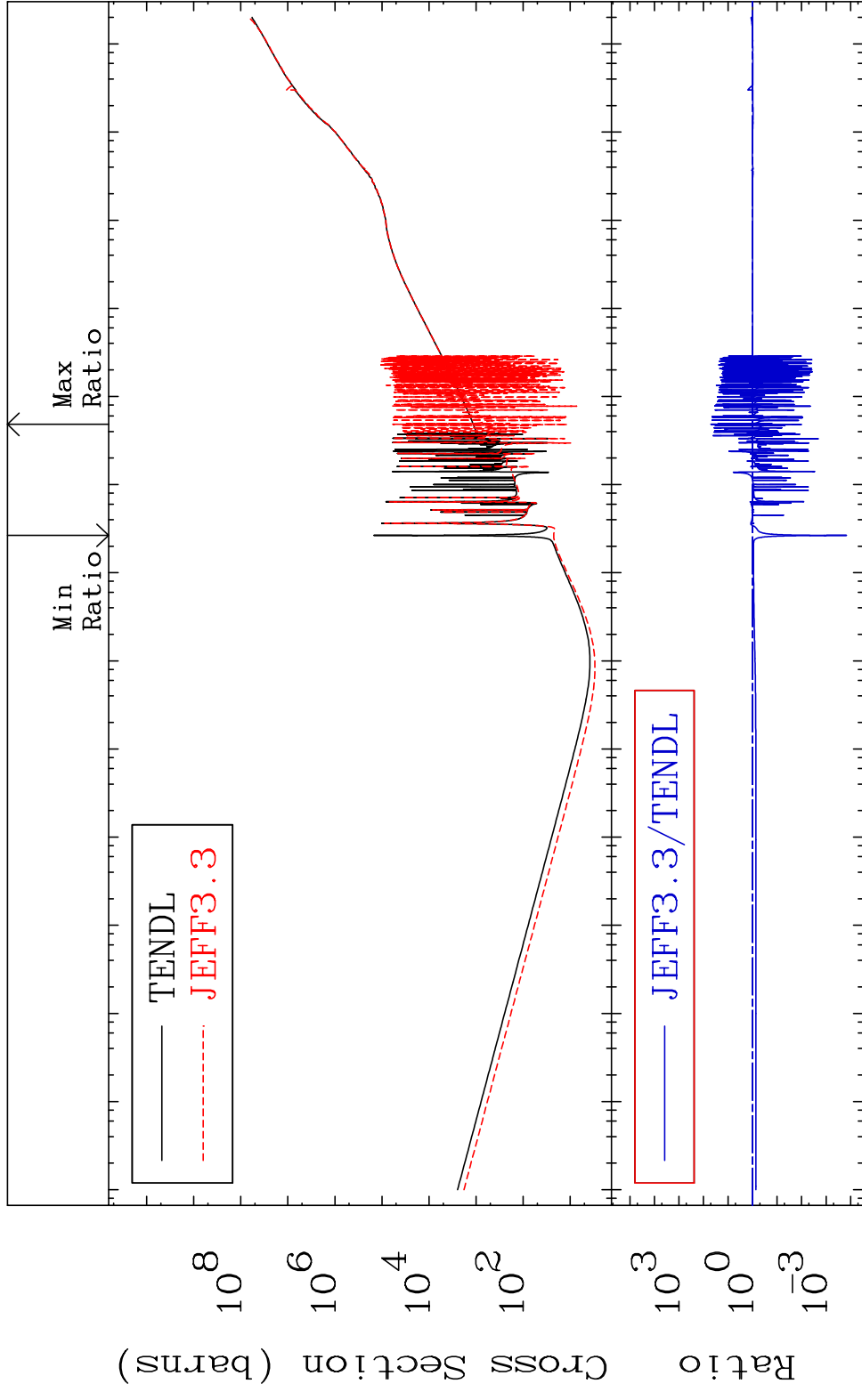
MAT 3825

He-4 Production
Cross Section

38-Sr-84
-22.83 To 3610. %



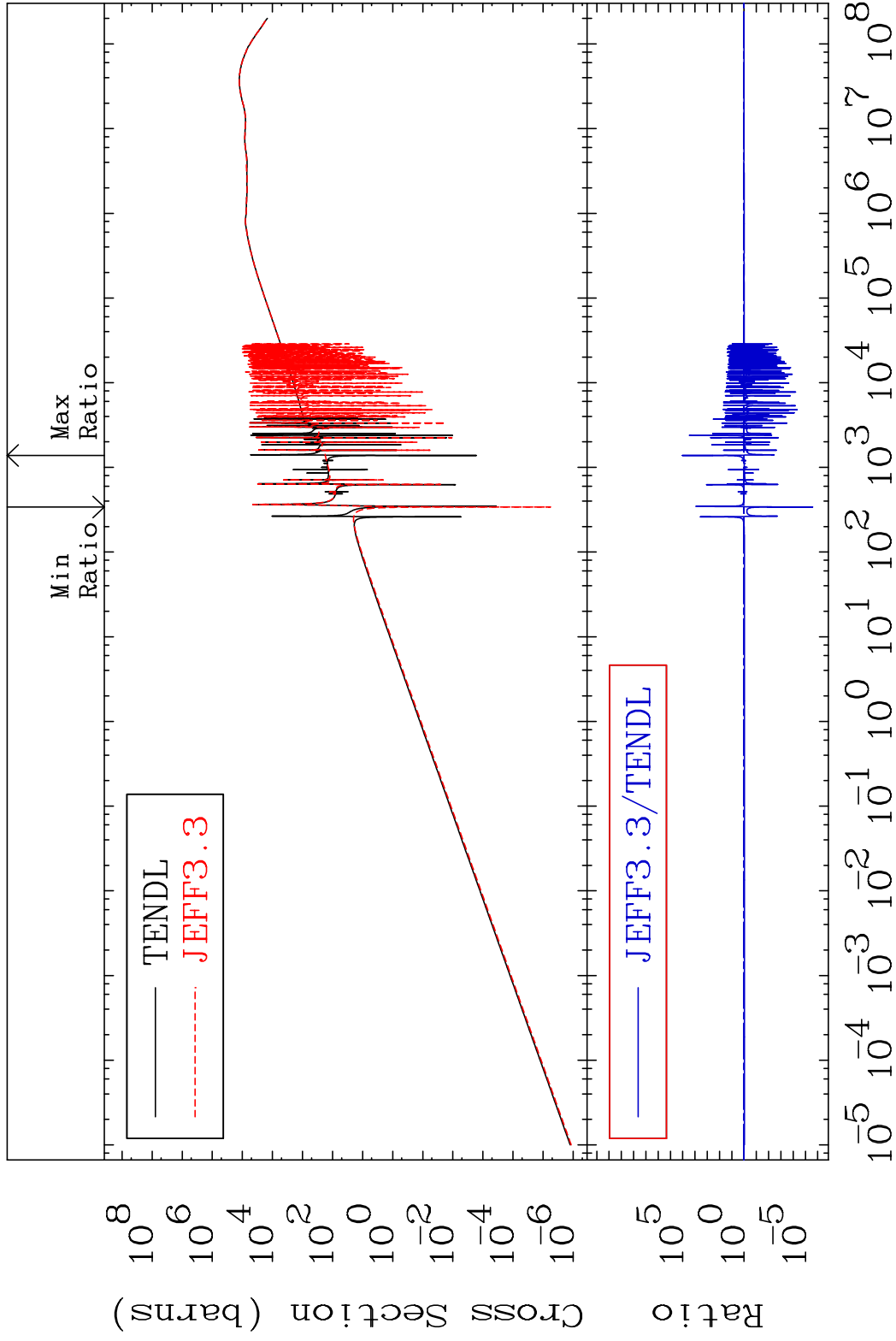
MAT 3825 Kerma total (eV-barns) 38-Sr-84
 Cross Section -99.99 To 4970. %



50 Incident Energy (eV) 38-Sr-84

MAT 3825

Kerma elastic Cross Section -100.0 To 9999. %
38-Sr-84

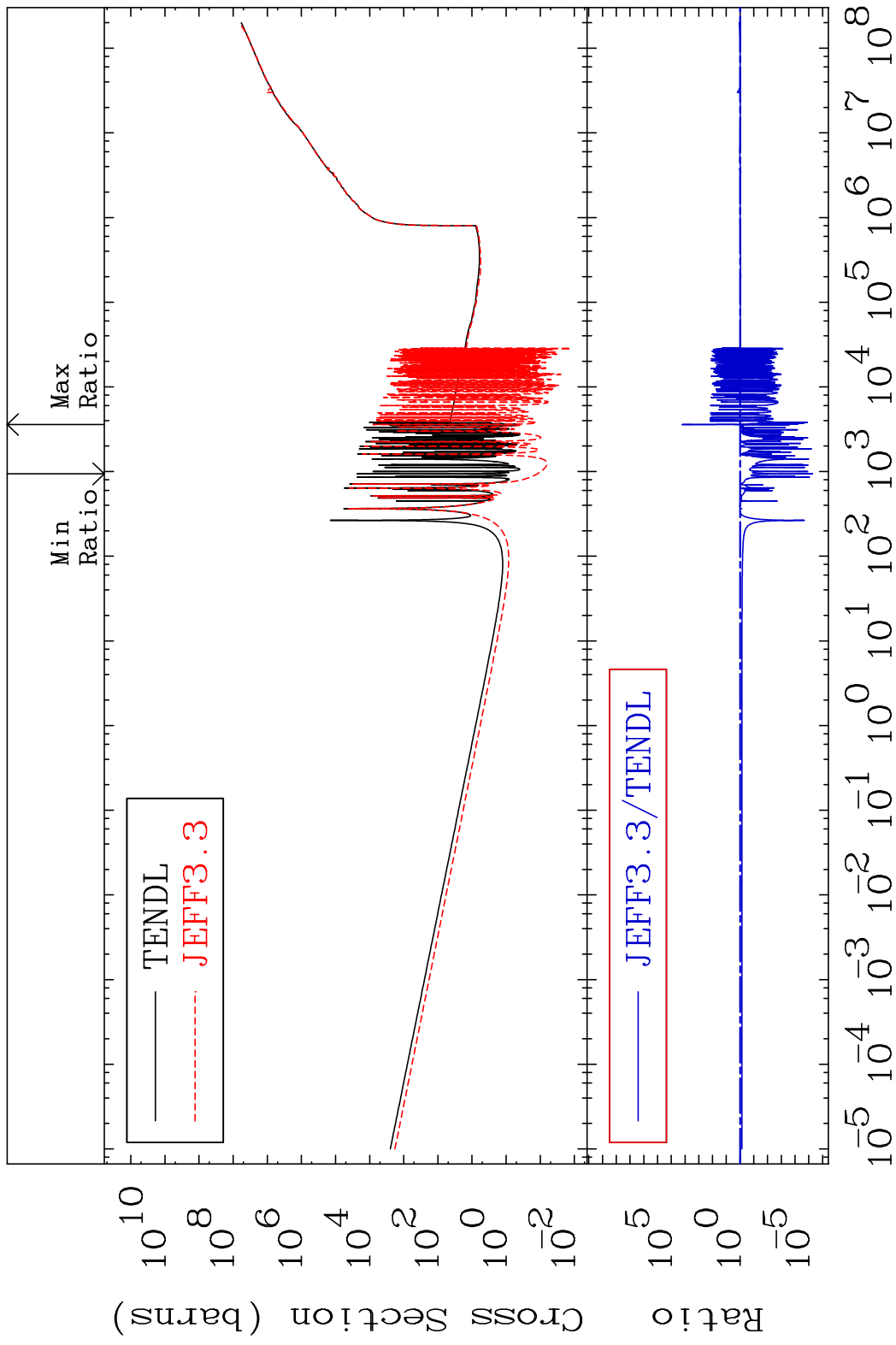


51

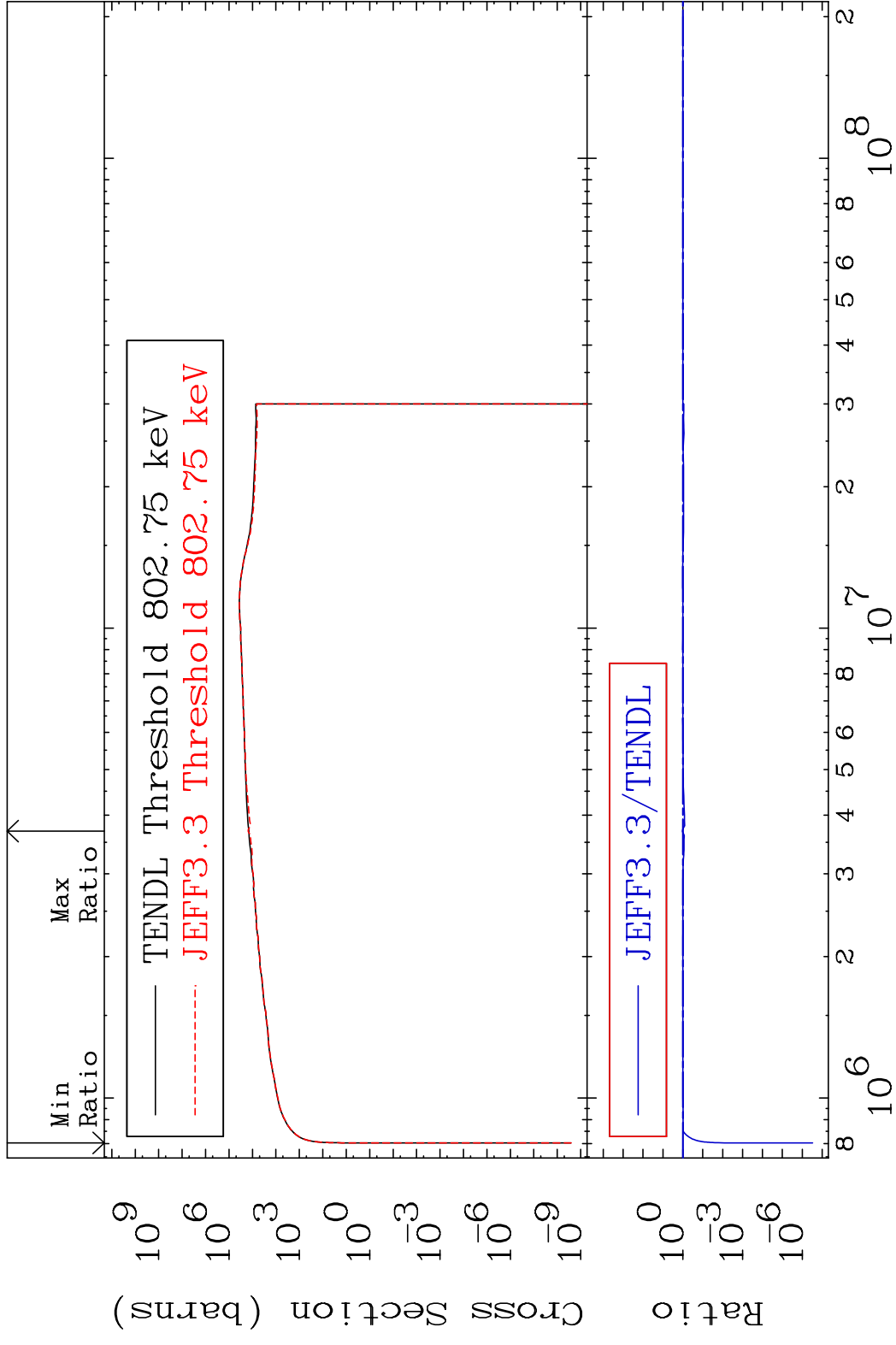
Incident Energy (eV)

38-Sr-84

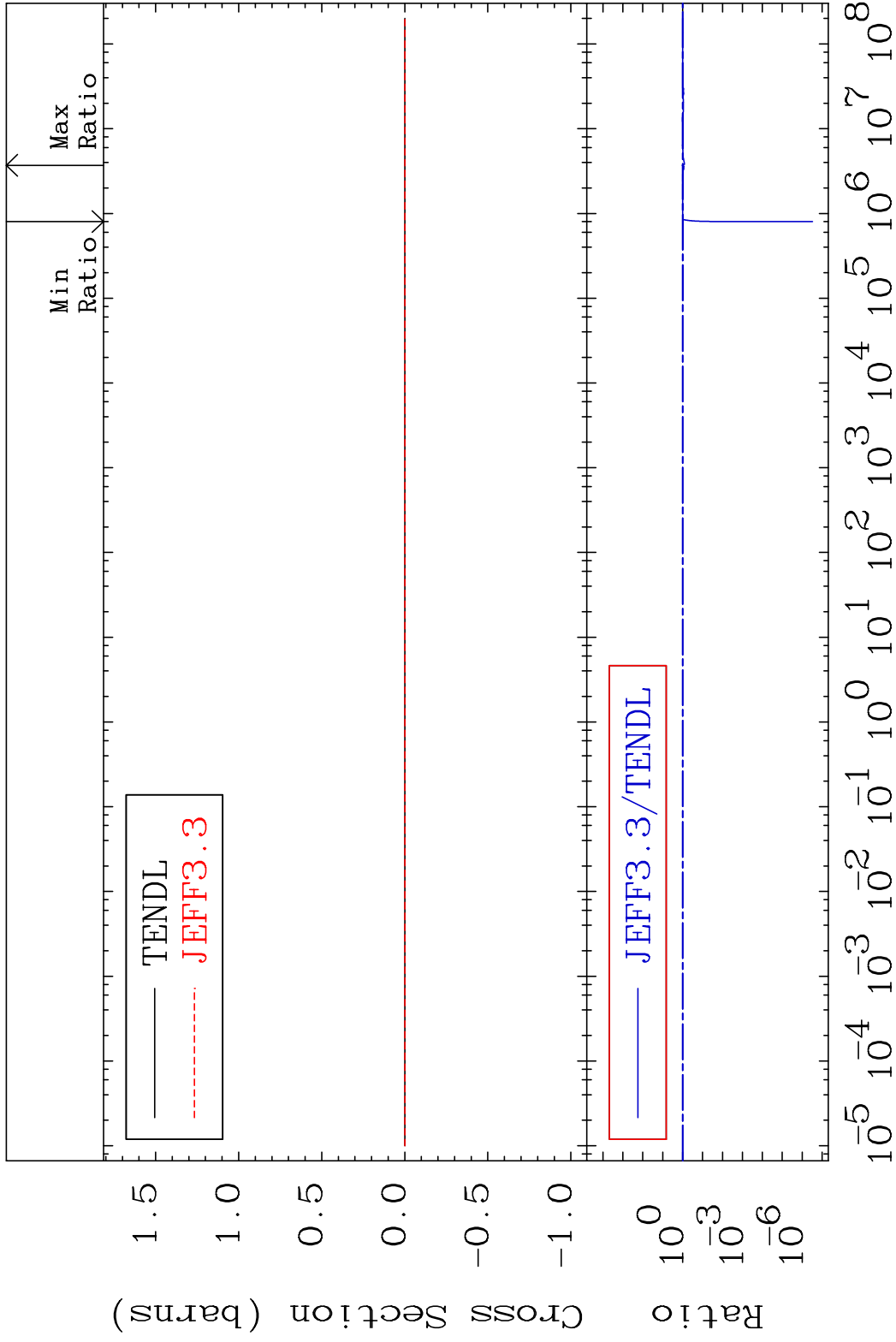
MAT 3825 Kerma non-elastic (all but mt2) 38-Sr-84
 Cross Section -100.0 To 9999. %



MAT 3825 Kerma inelastic (mt51-91) 38-Sr-84
 Cross Section -100.0 To 5.829 %



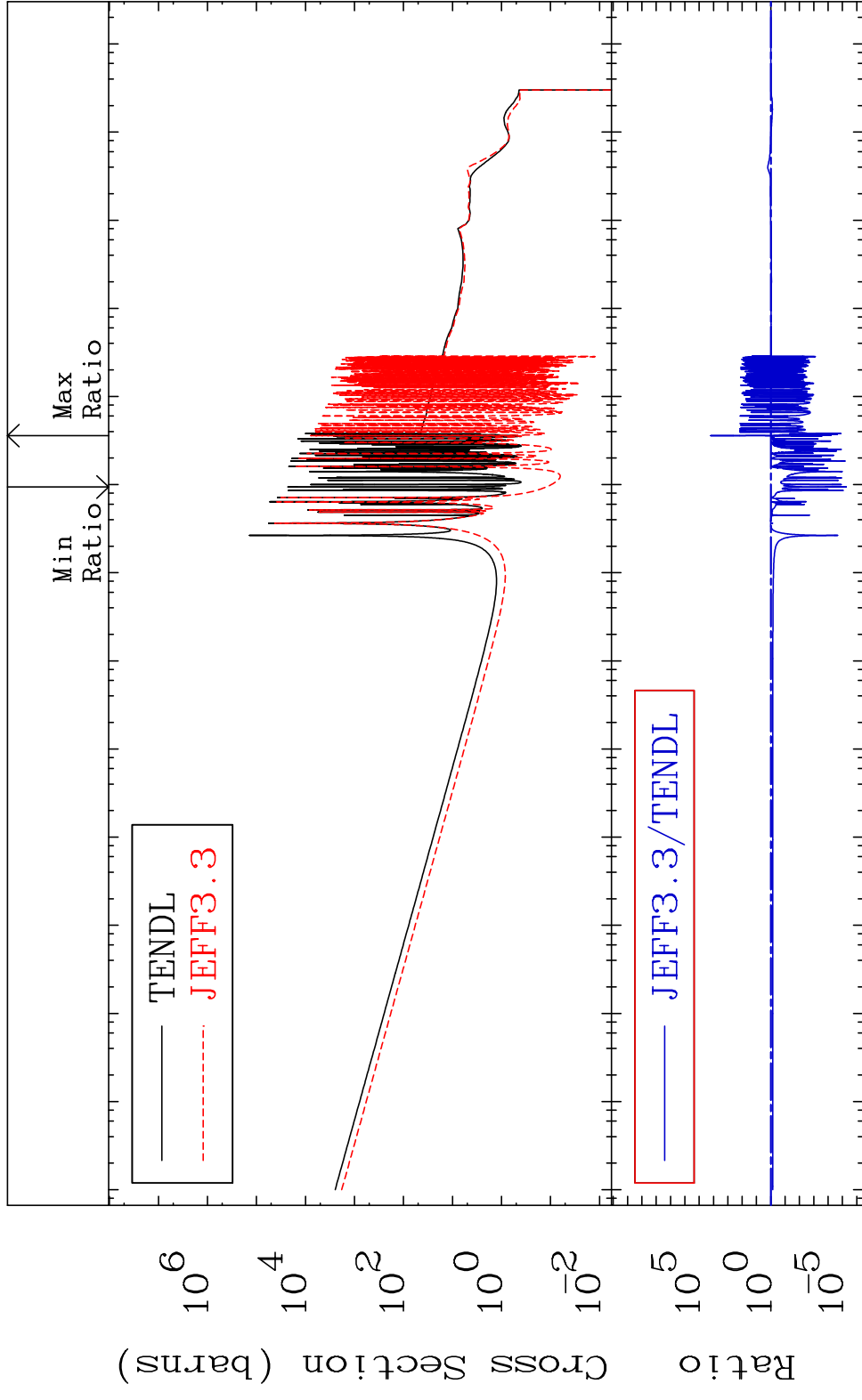
MAT 3825 Kerma fission (mt18 or mt19-20-21-38) 38-Sr-84
 Cross Section -100.0 To 5.829 %



MAT 3825

Kerma capture (mt102) 38-Sr-84

Cross Section -100.0 To 9999. %

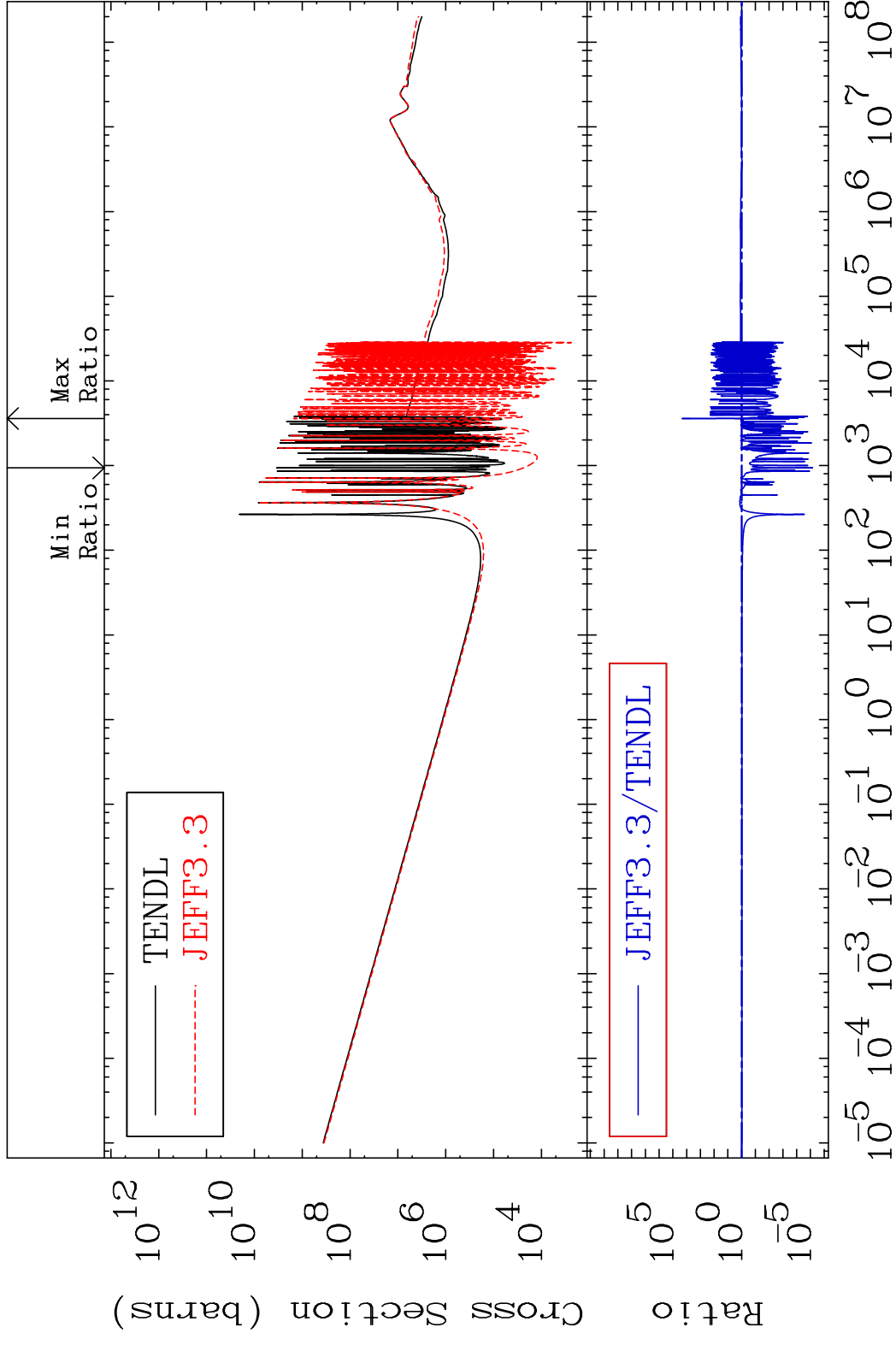


55

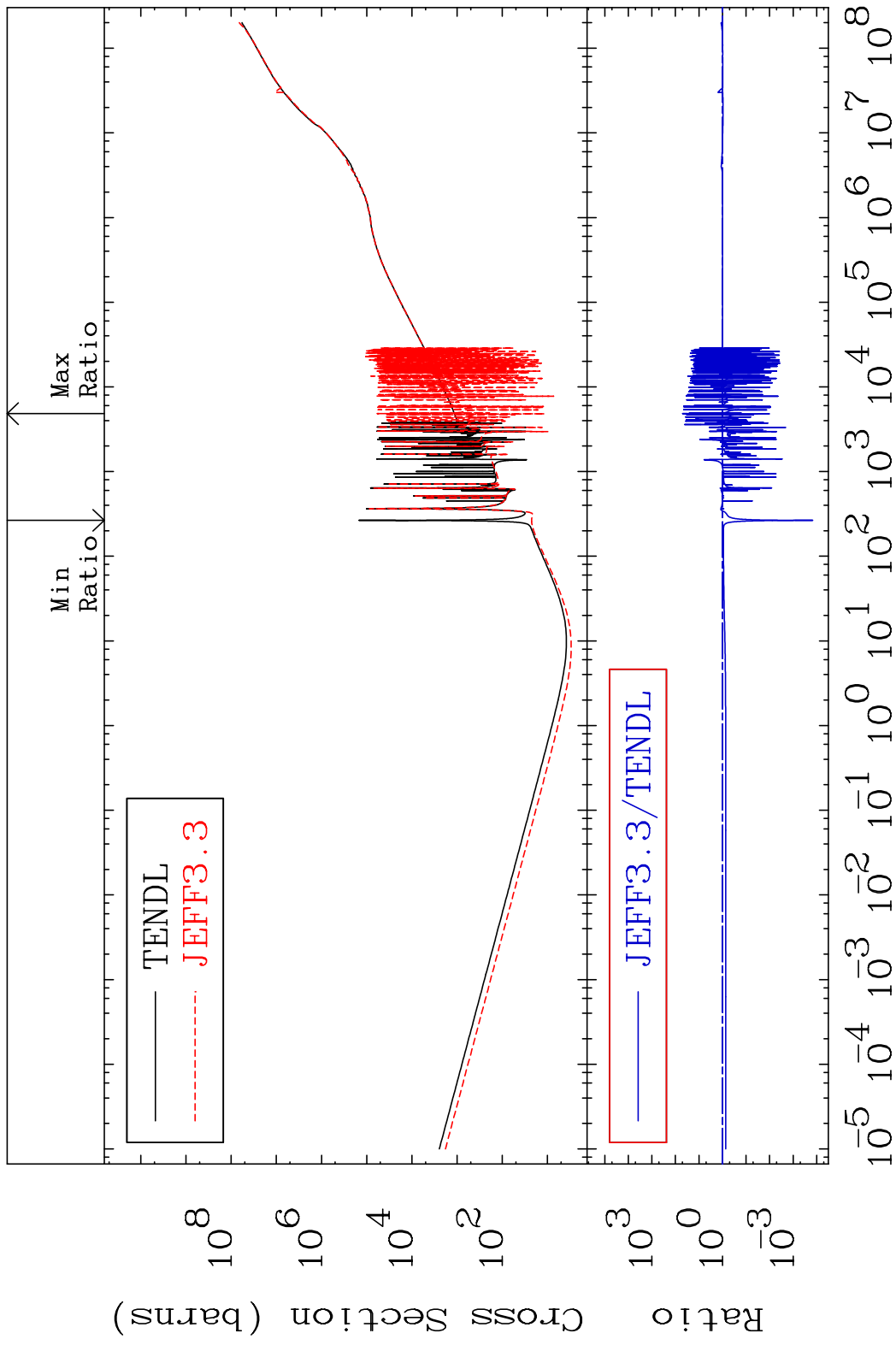
Incident Energy (eV)

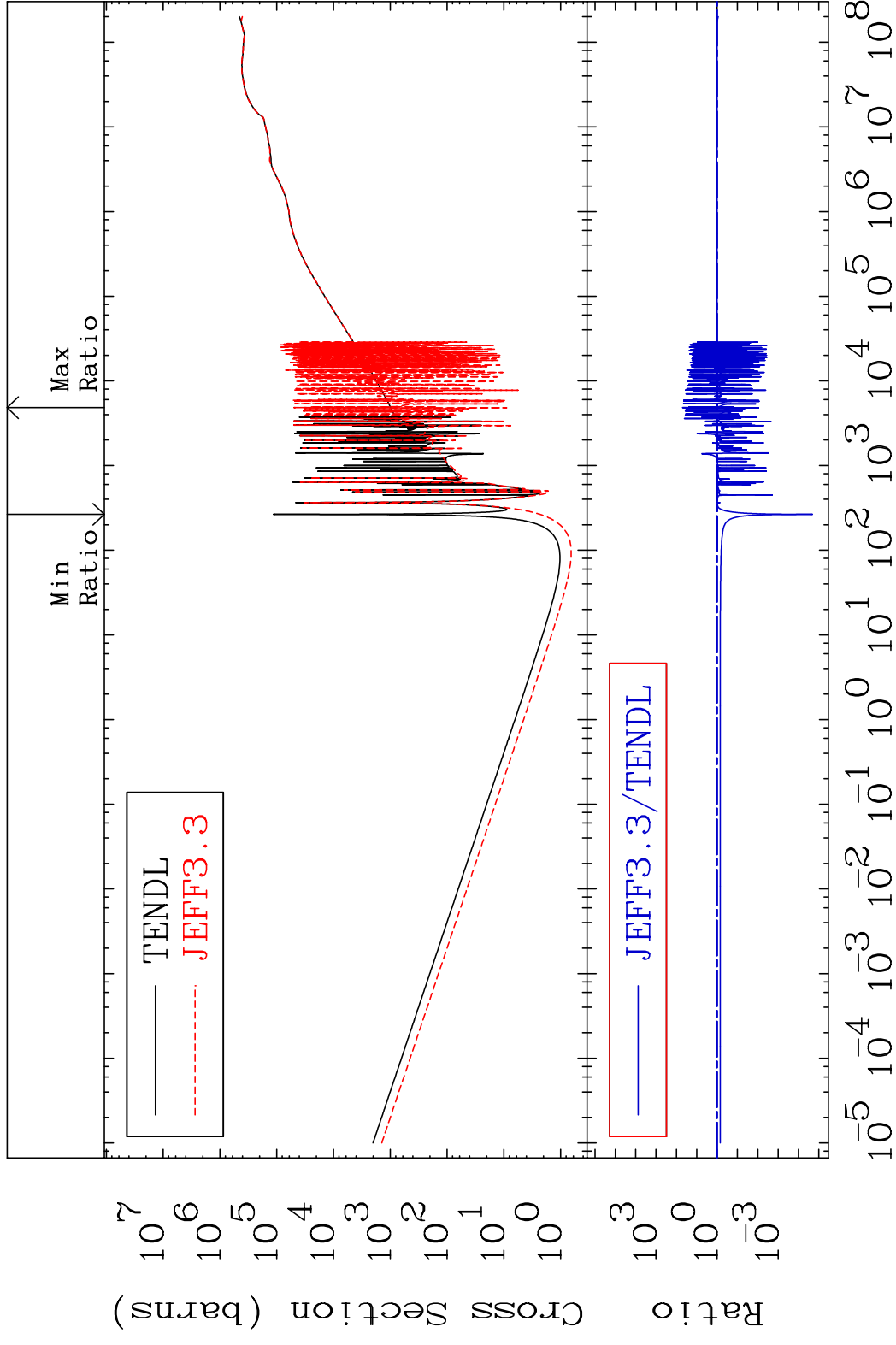
38-Sr-84

MAT 3825 Total photon (eV-barns) 38-Sr-84
 Cross Section -100.0 To 9999. %



MAT 3825 Total kinematic kerma (high limit) 38-Sr-84
 Cross Section -99.99 To 4970. %



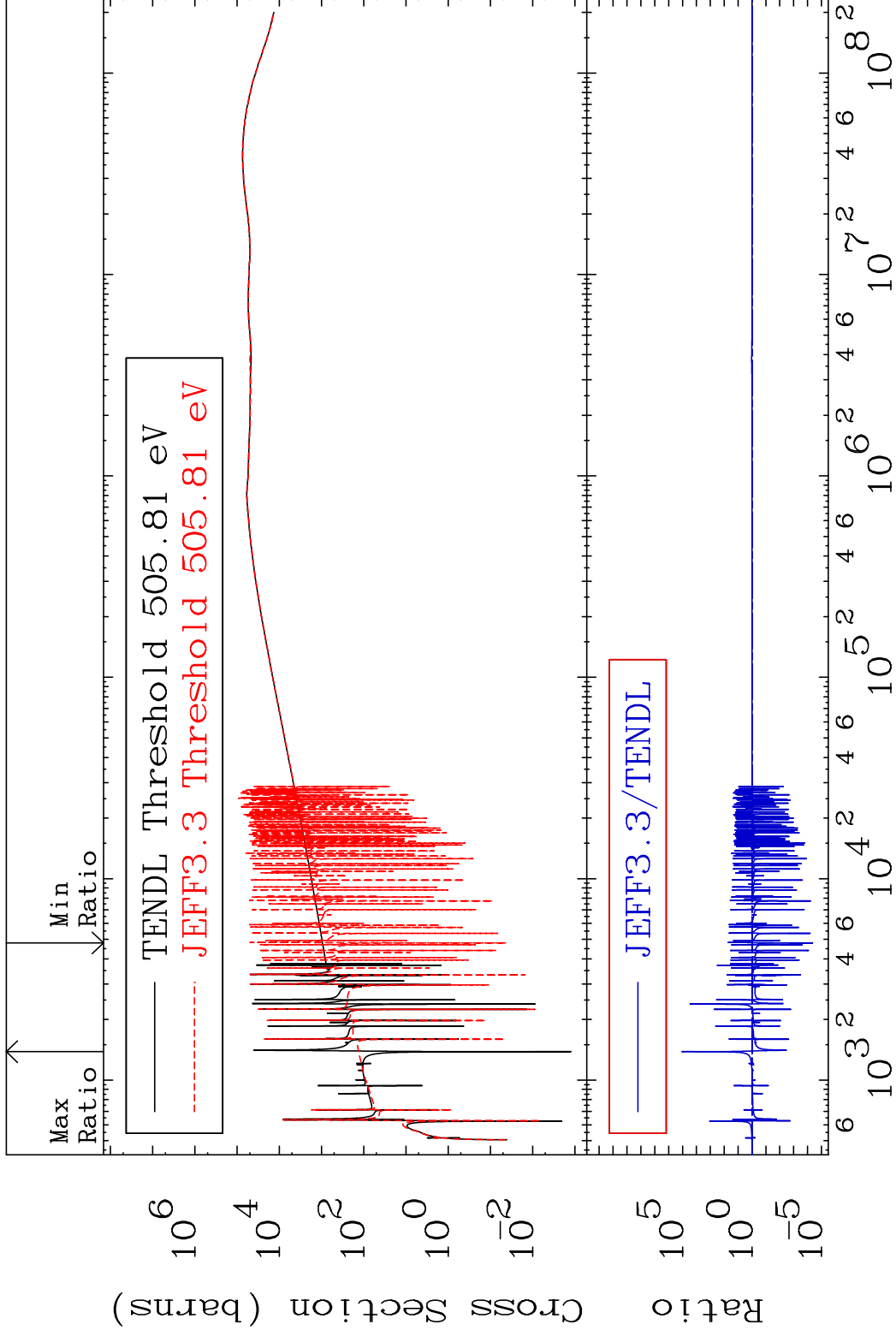


MAT 3825

Dpa elastic (mt2)

38-Sr-84

Cross Section -100.0 To 9999. %



59

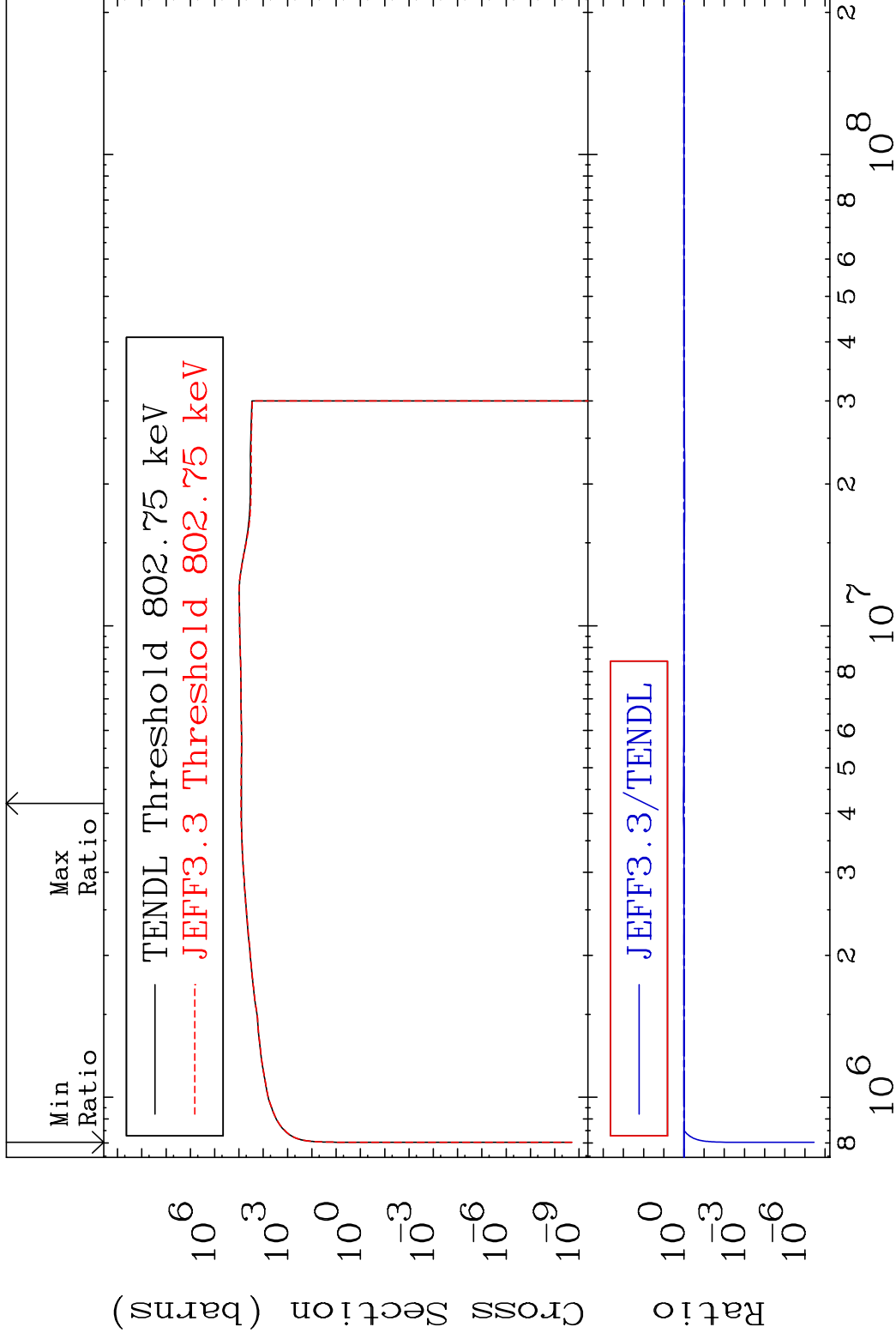
Incident Energy (eV)

38-Sr-84

MAT 3825

Dpa inelastic (mt51-91) 38-Sr-84

Cross Section -100.0 To 5.884 %

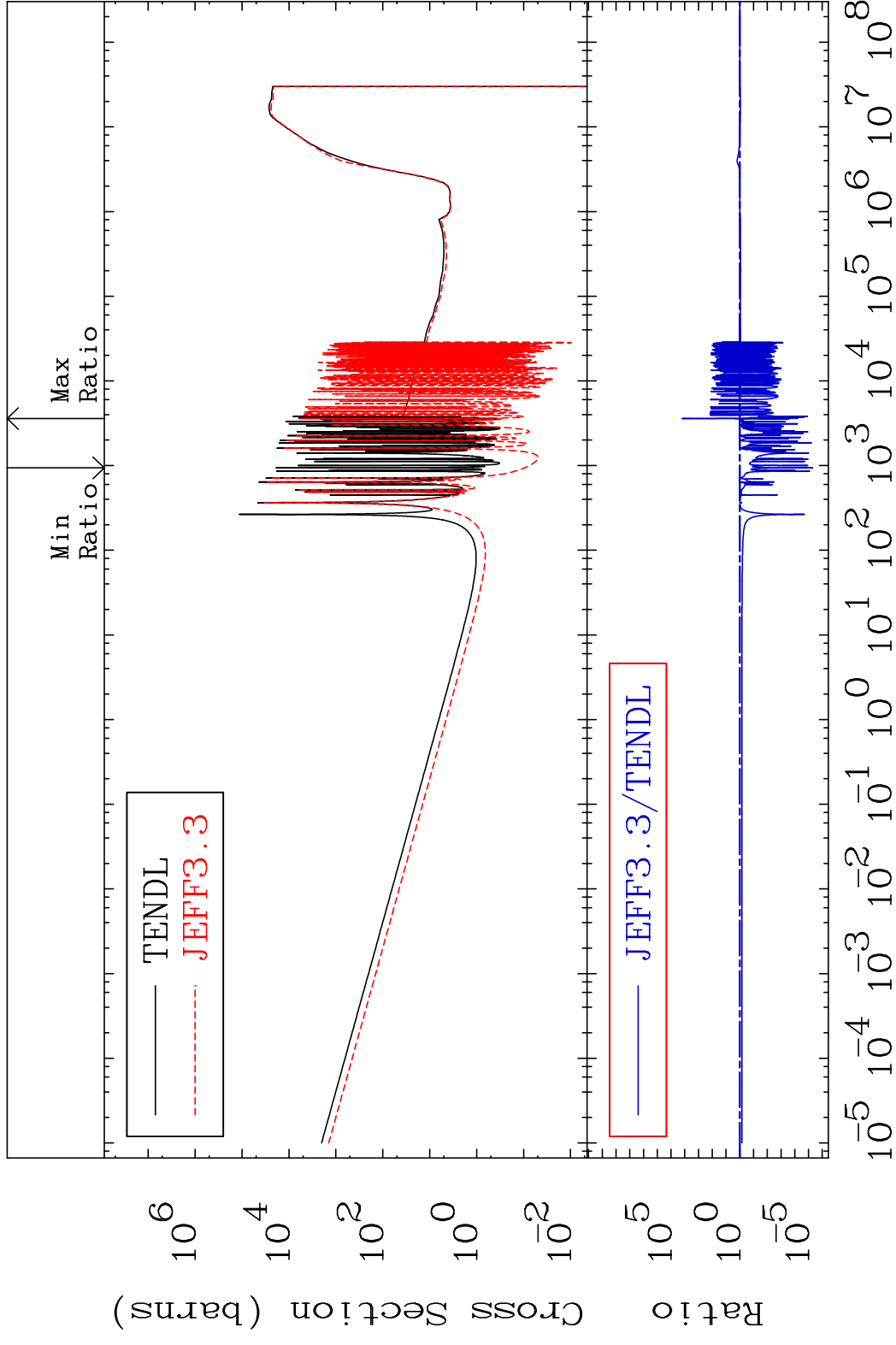


60

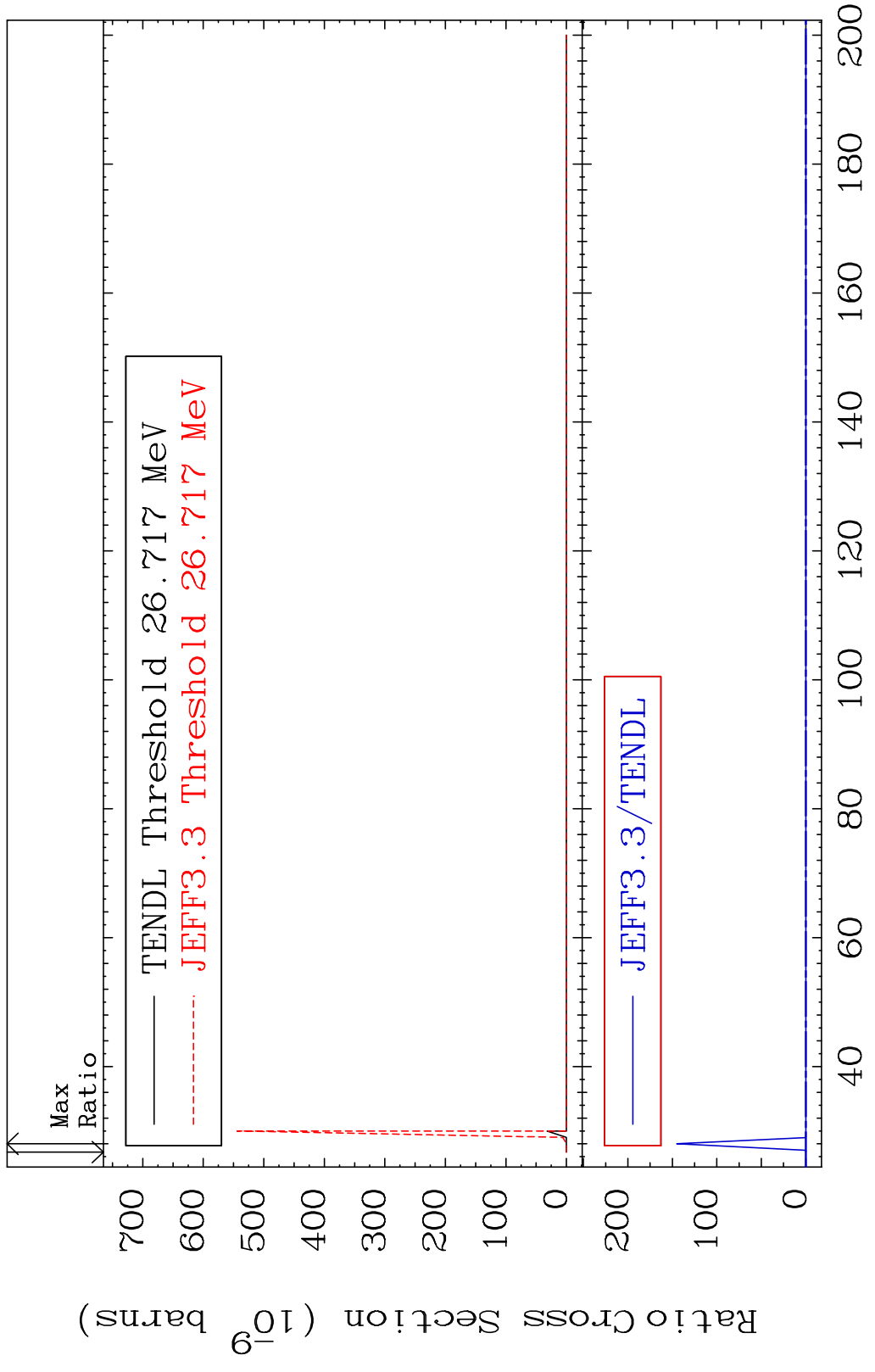
Incident Energy (eV)

38-Sr-84

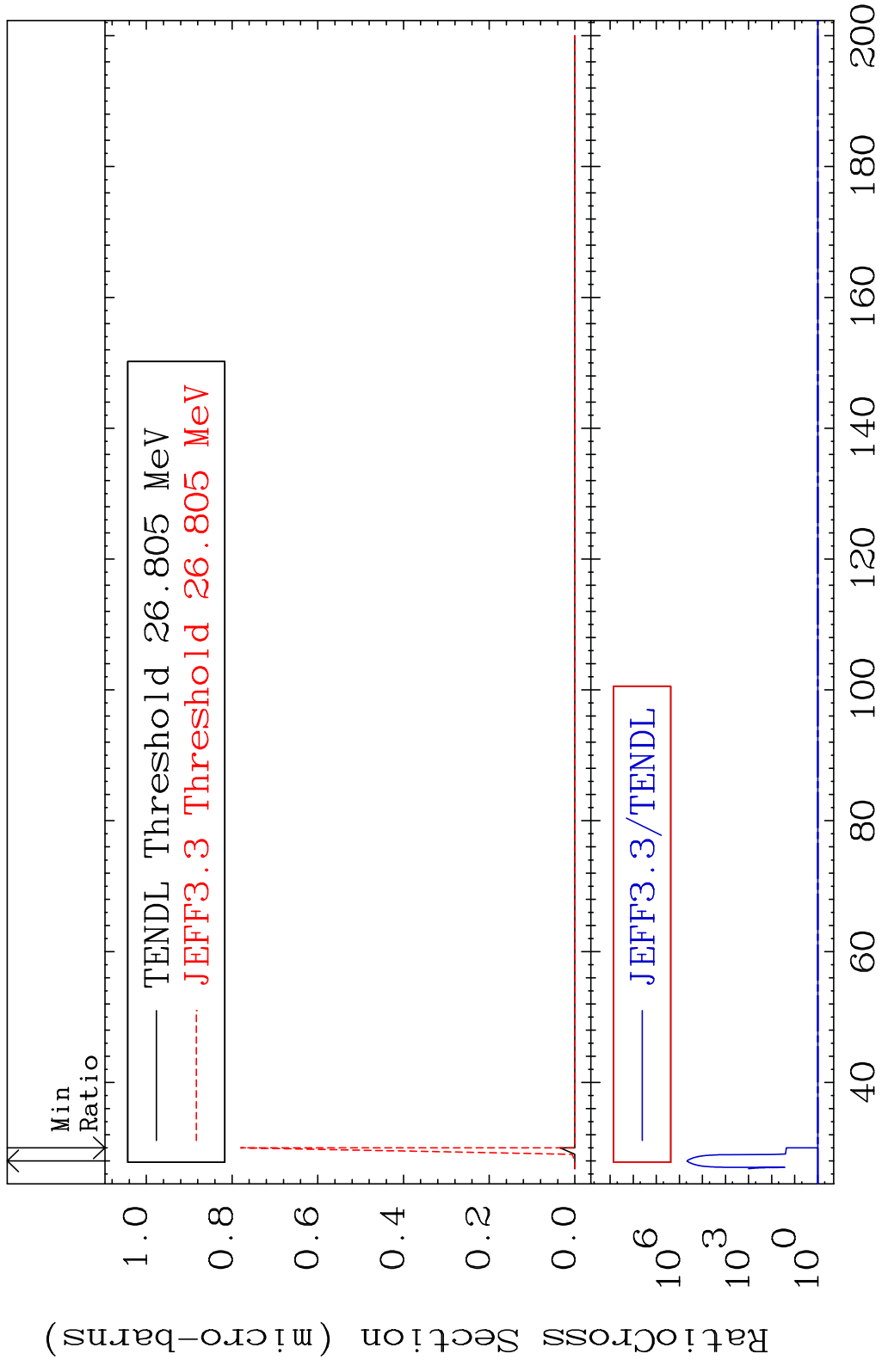
MAT 3825 Dpa disappearance (mt102 -120) 38-Sr-84
 Cross Section -100.0 To 9999. %



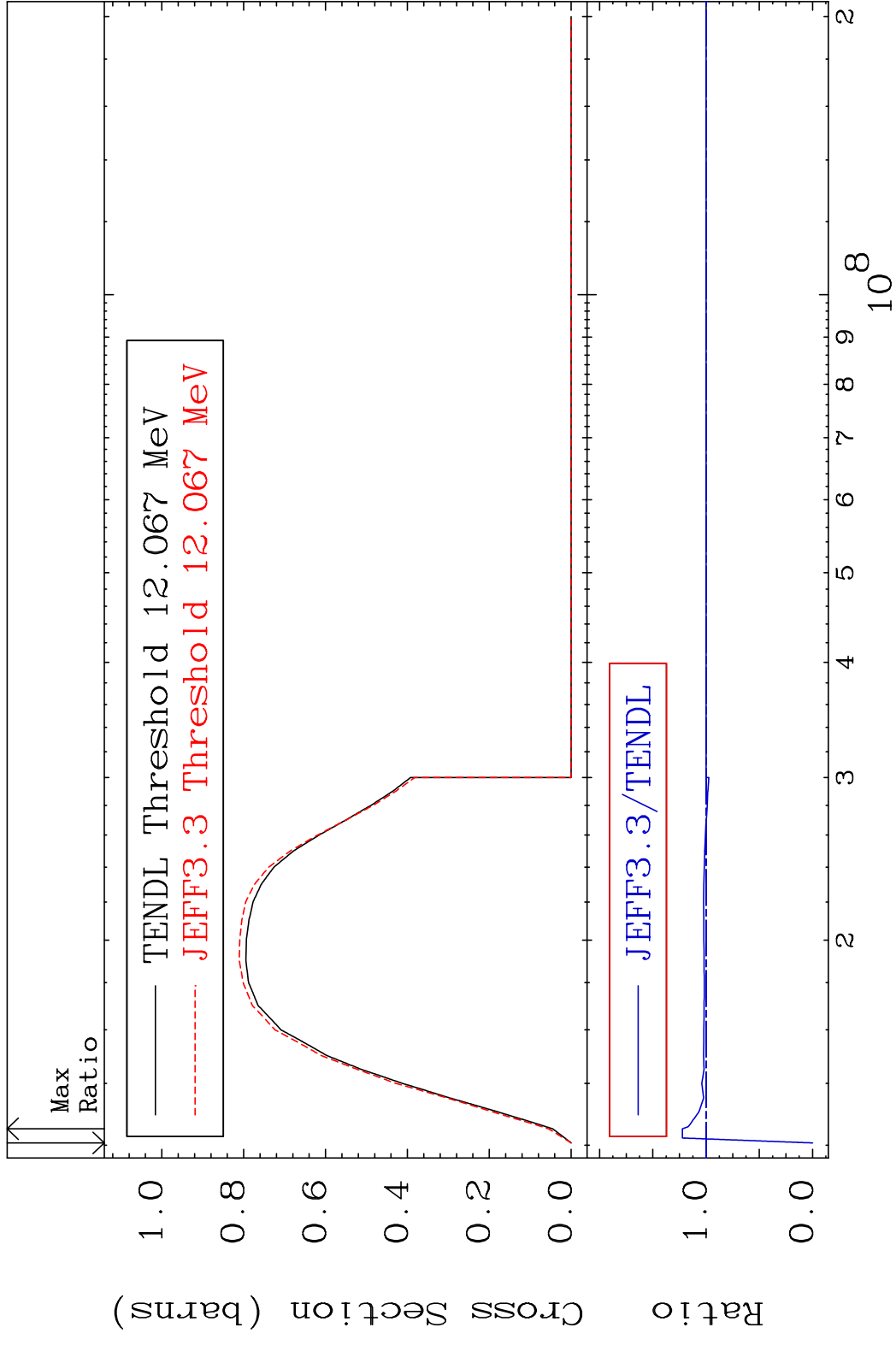
MAT 3825 (n,2n) d:37-Rb-81g 38-Sr-84
 Radionuclide Production Cross Section Ratio 9999. %



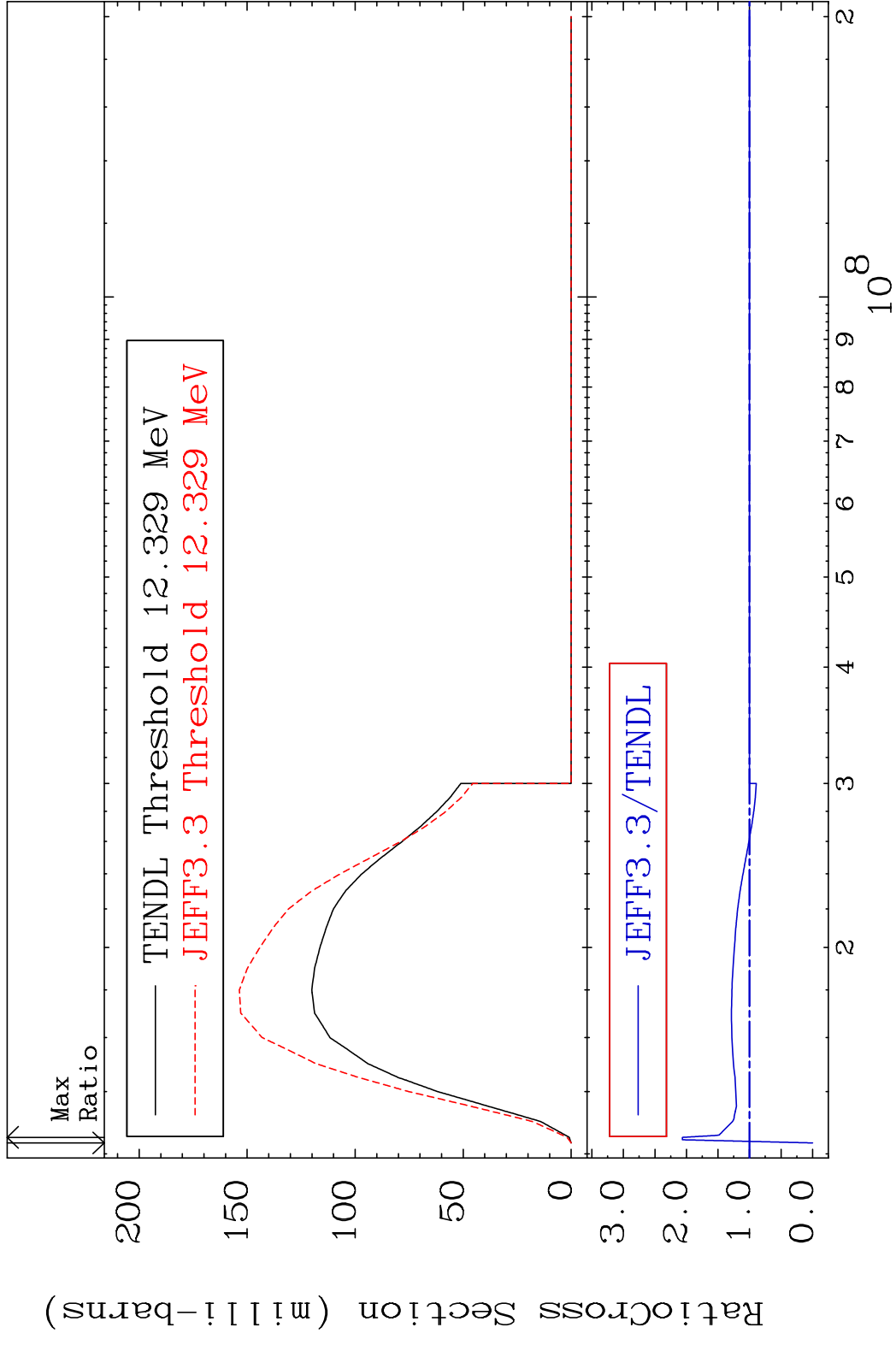
MAT 3825 (n,2n) d:37-Rb-81m1 38-Sr-84
 Radionuclide Production Cross Section 9999. %

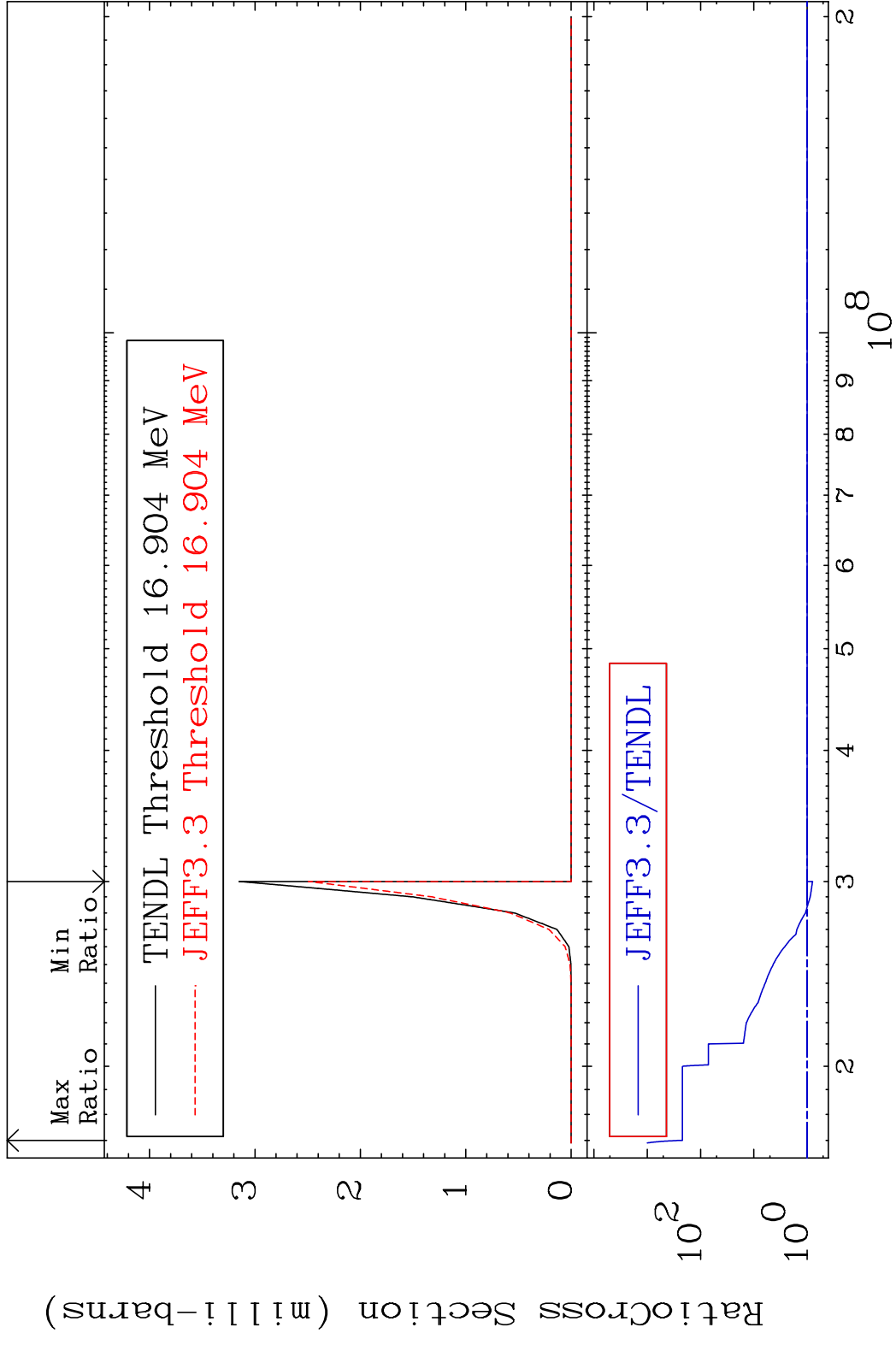


MAT 3825 (n,2n):38-Sr-83g 38-Sr-84
 Radionuclide Production Cross Section Ratio 22.28 %

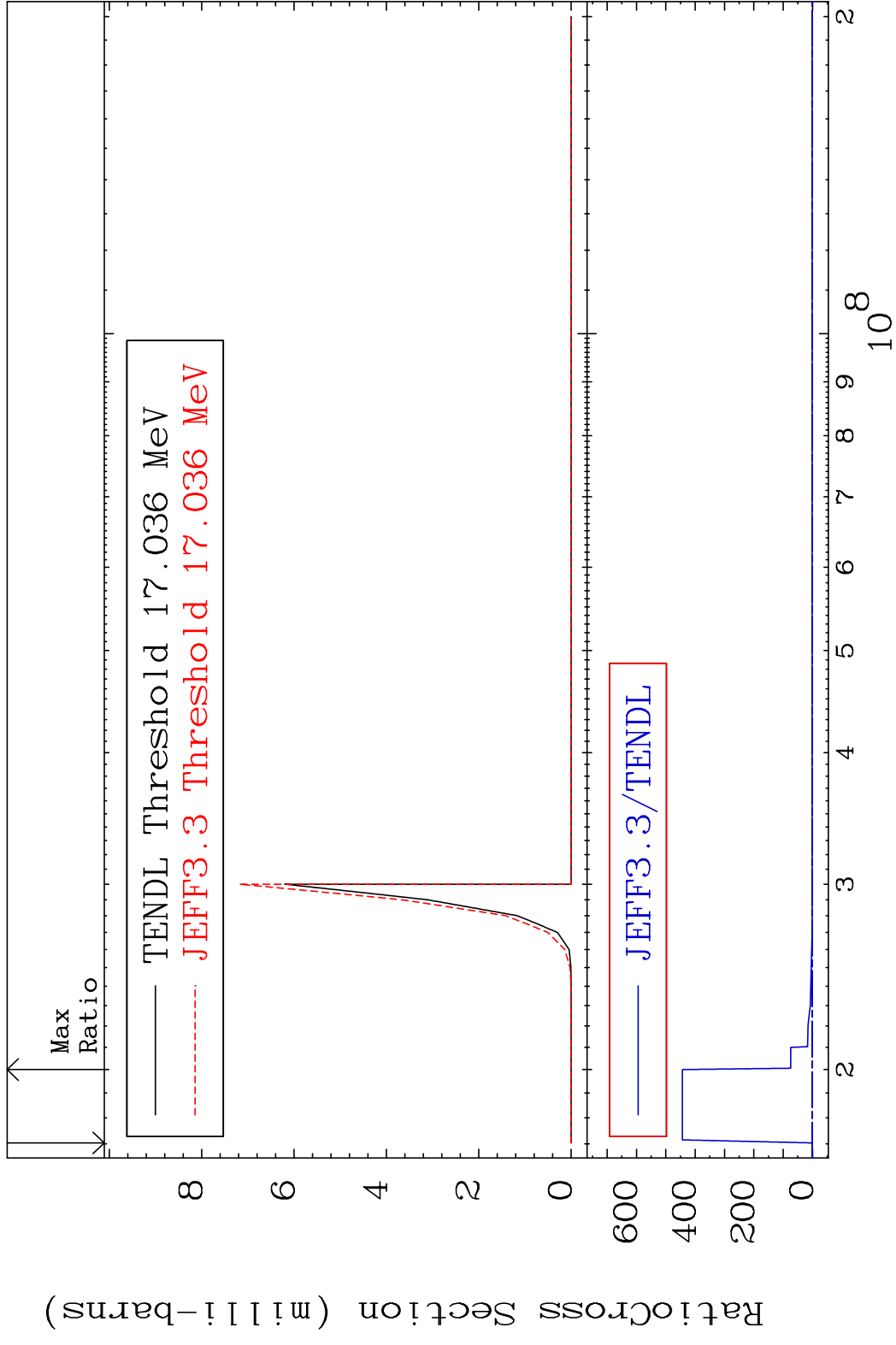


MAT 3825 (n,2n):38-Sr-83m2 38-Sr-84
 Radionuclide Production Cross Section 100.0 dth 106.5 %

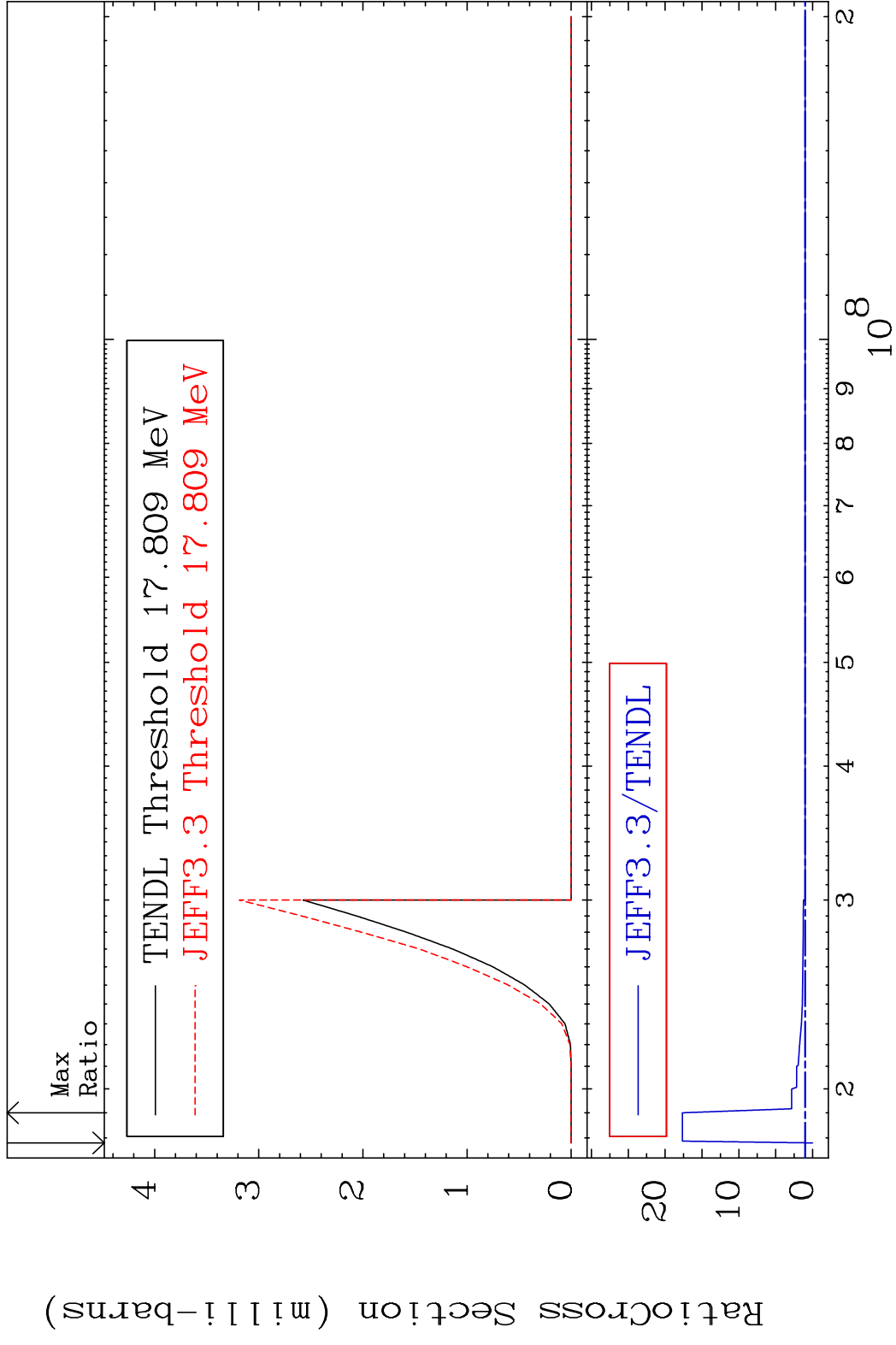




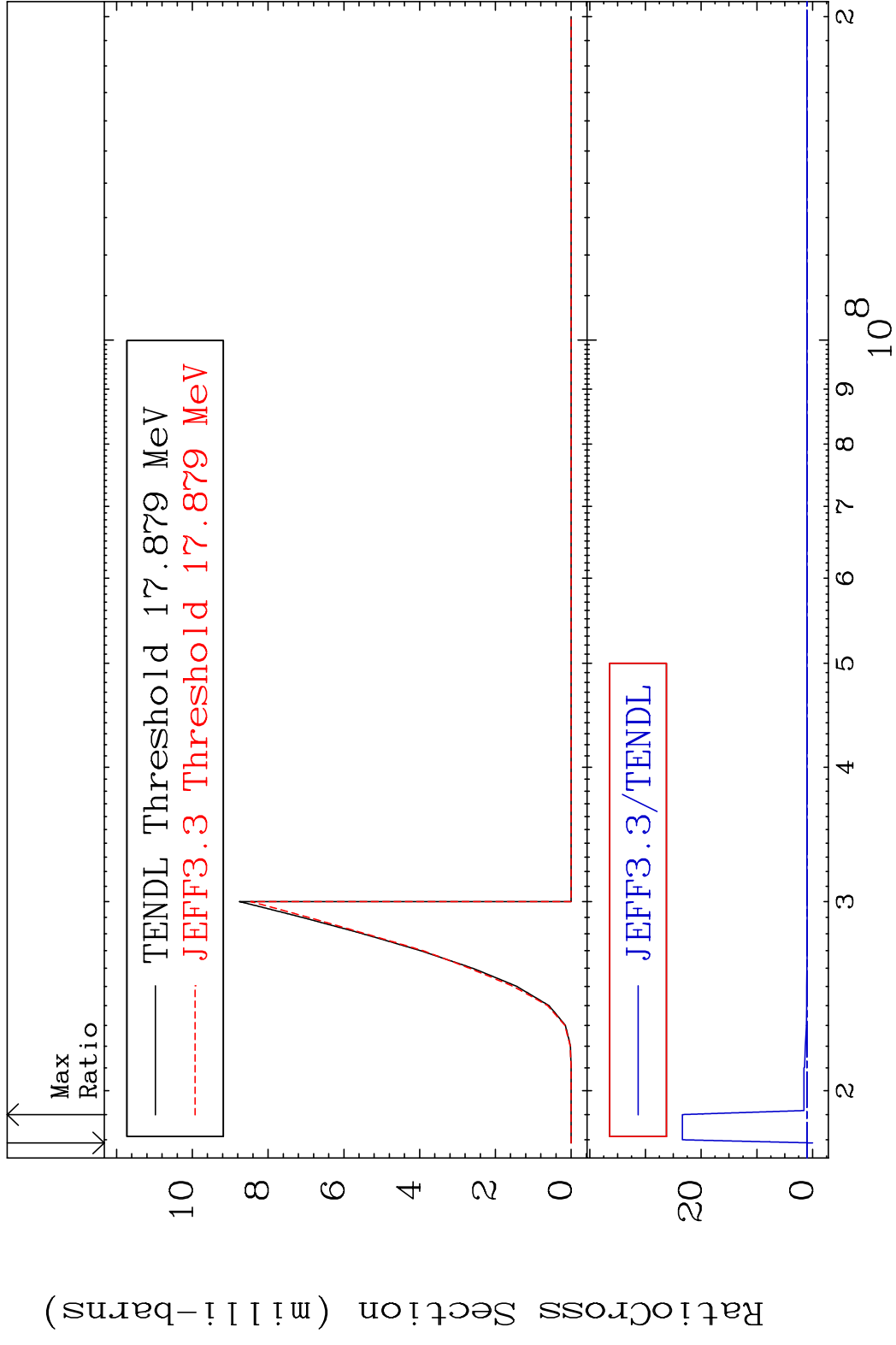
MAT 3825 (n,2n) α :36-Kr-79m1 38-Sr-84
 Radionuclide Production Cross Section Ratio



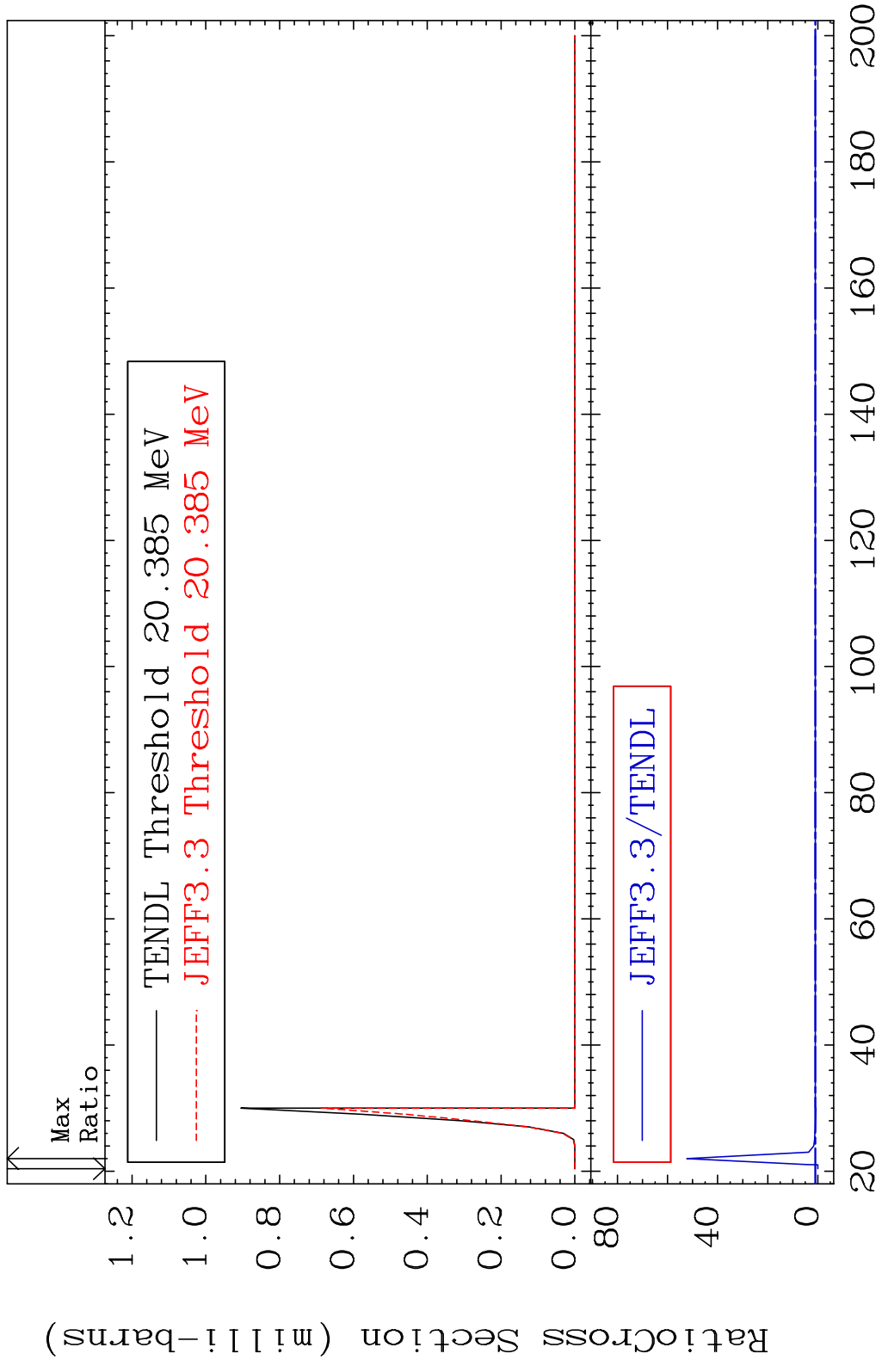
MAT 3825 (n, n') d:37-Rb-82g 38-Sr-84
 Radionuclide Production Cross Section 1800 d to 1666. %



MAT 3825 (n, n') d:37-Rb-82m1 38-Sr-84
 Radionuclide Production Cross Section 18000 dno 2238. %

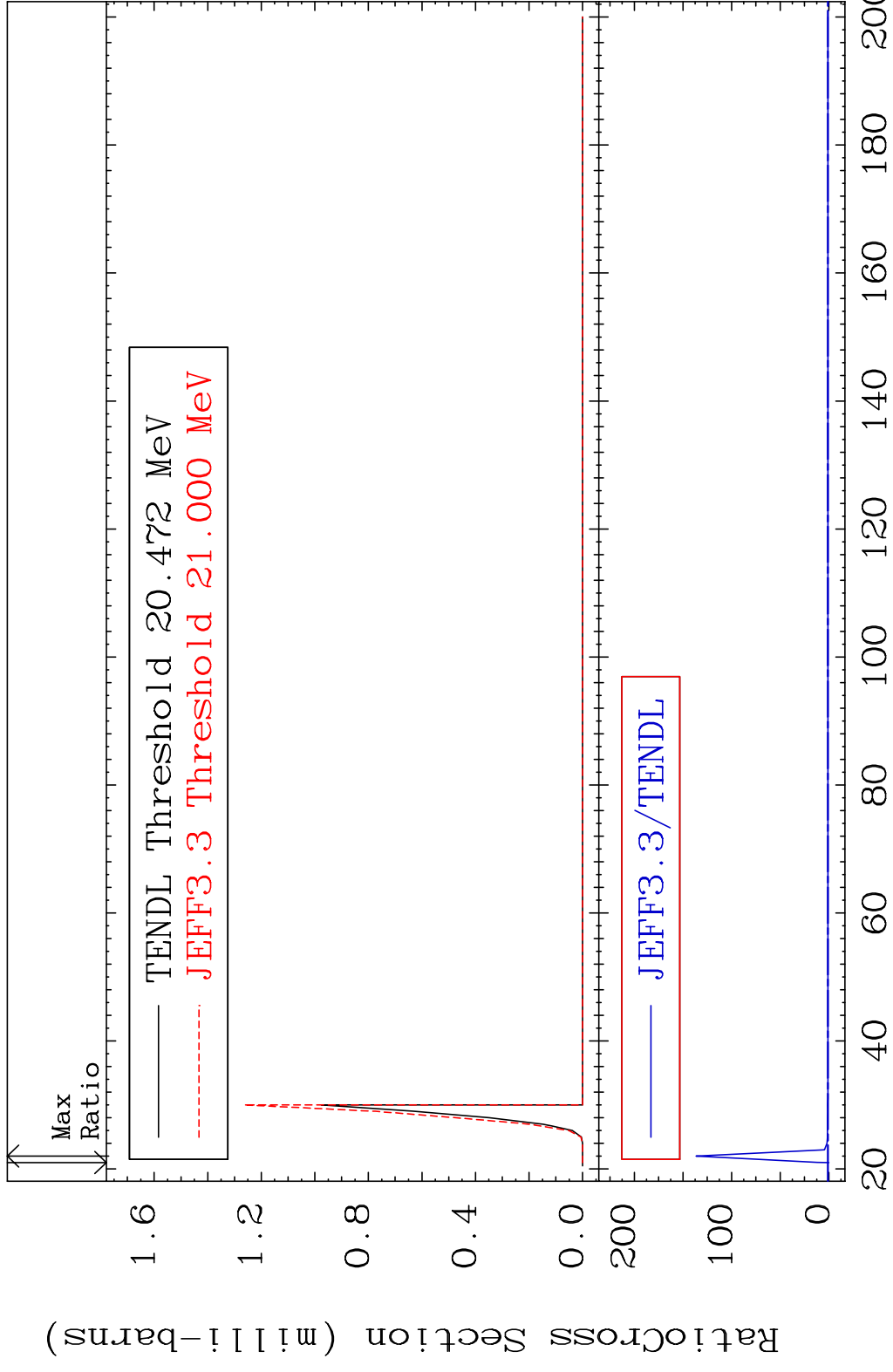


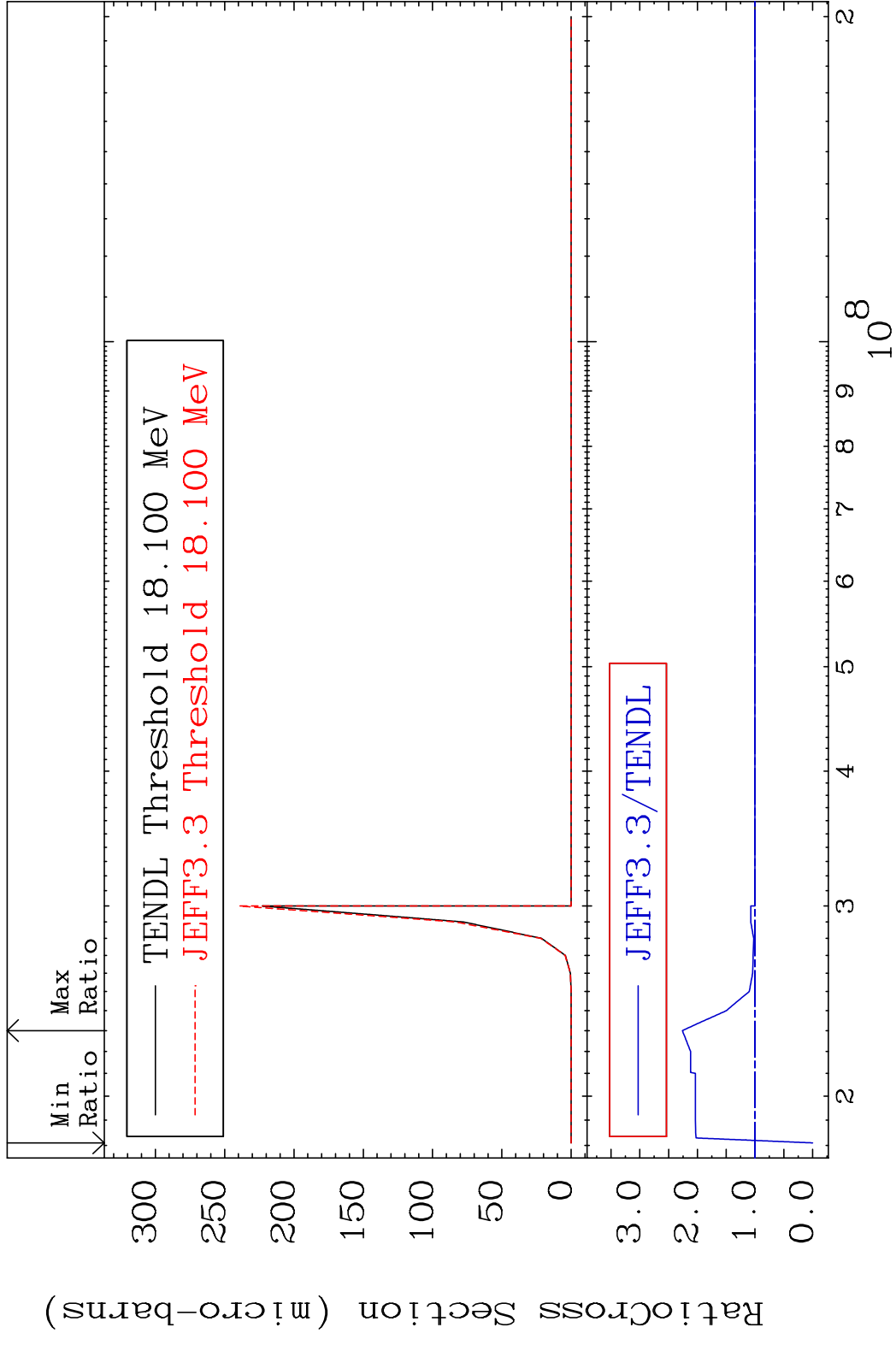
MAT 3825 (n, n') t:37-Rb-81g 38-Sr-84
 Radionuclide Production Cross Section 1800 d to 5134. %



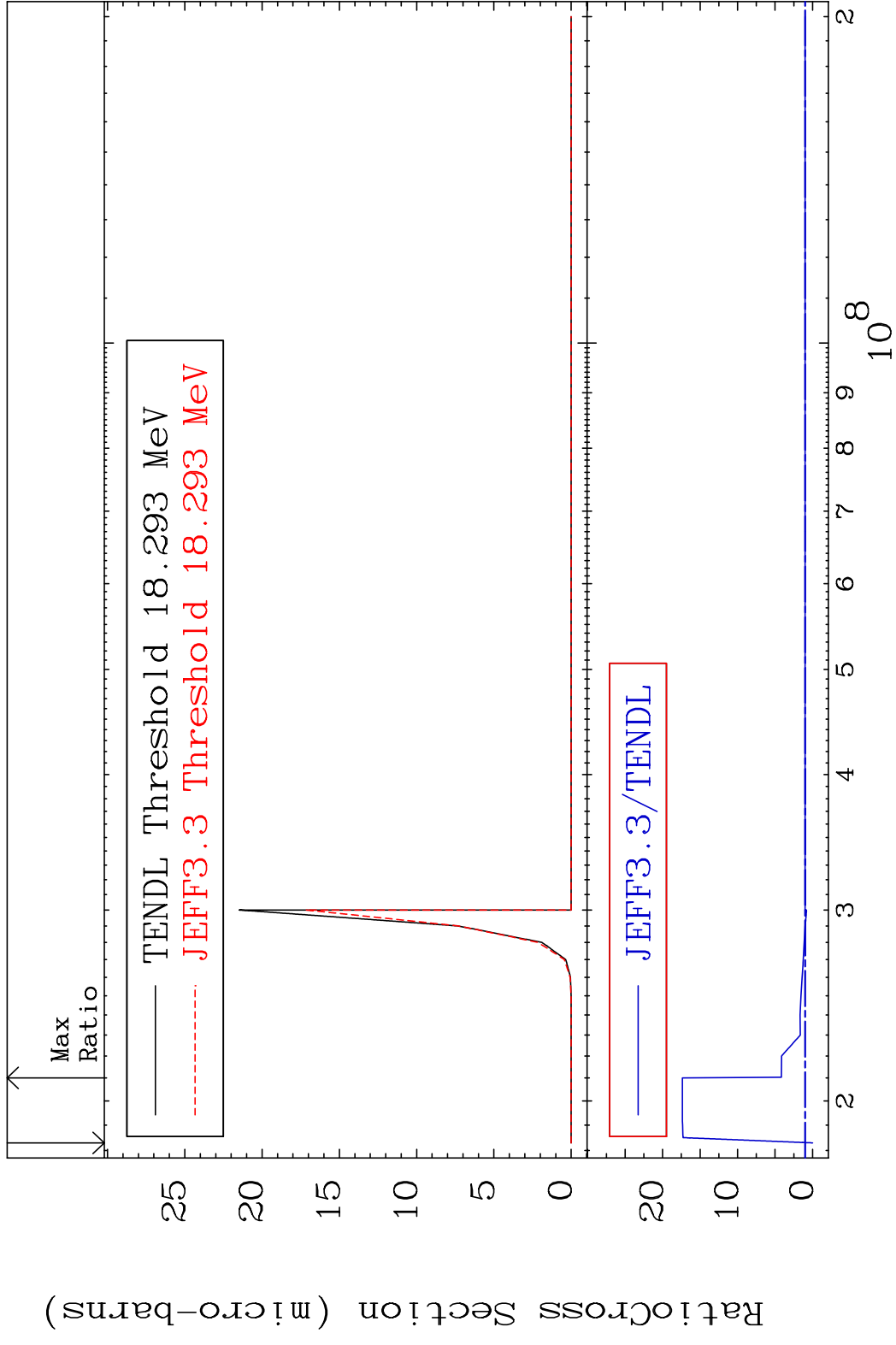
70 Incident Energy (MeV) 38-Sr-84

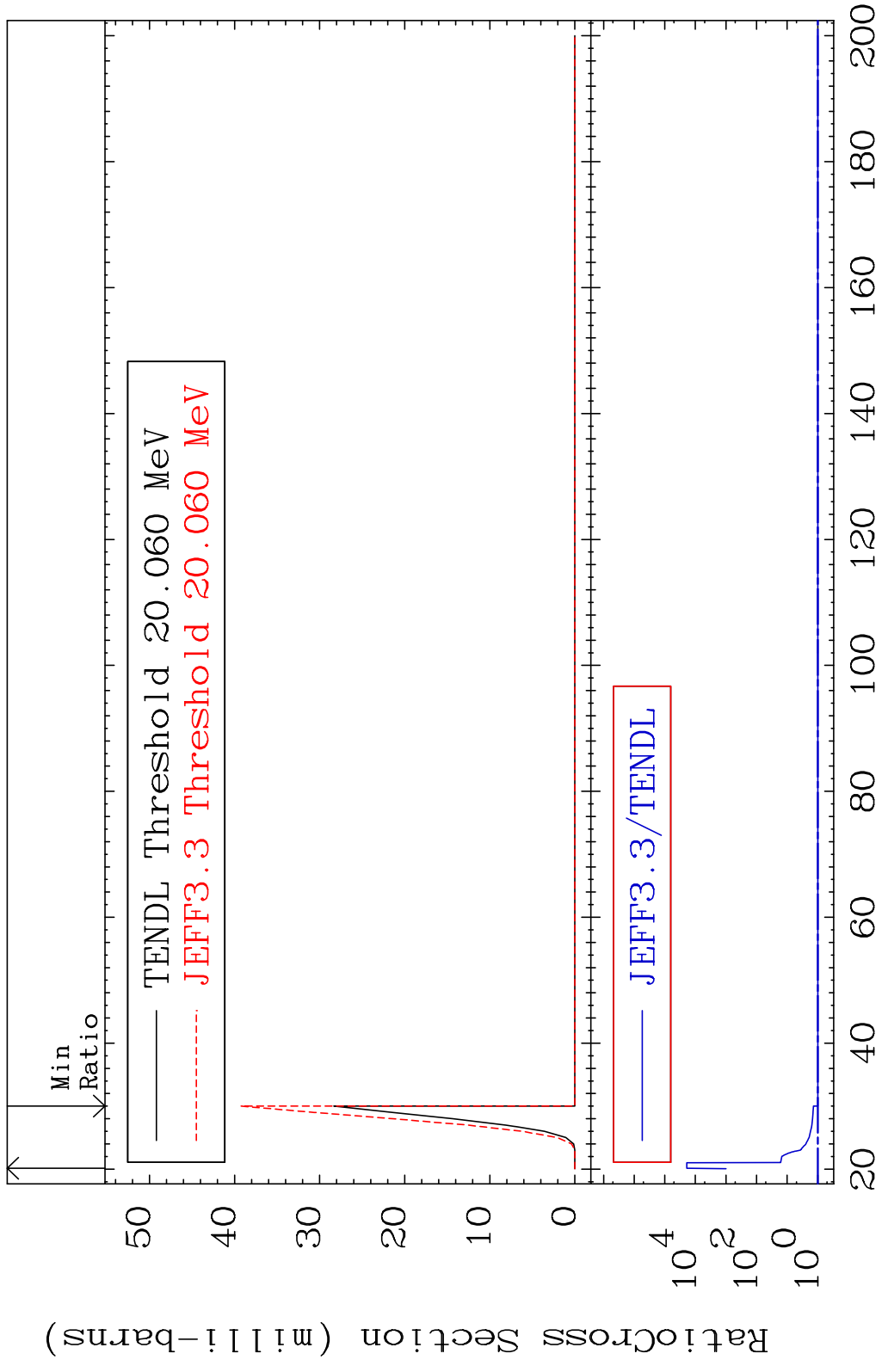
MAT 3825 (n, n') t:37-Rb-81m1 38-Sr-84
 Radionuclide Production Cross Section Ratio 9999. %

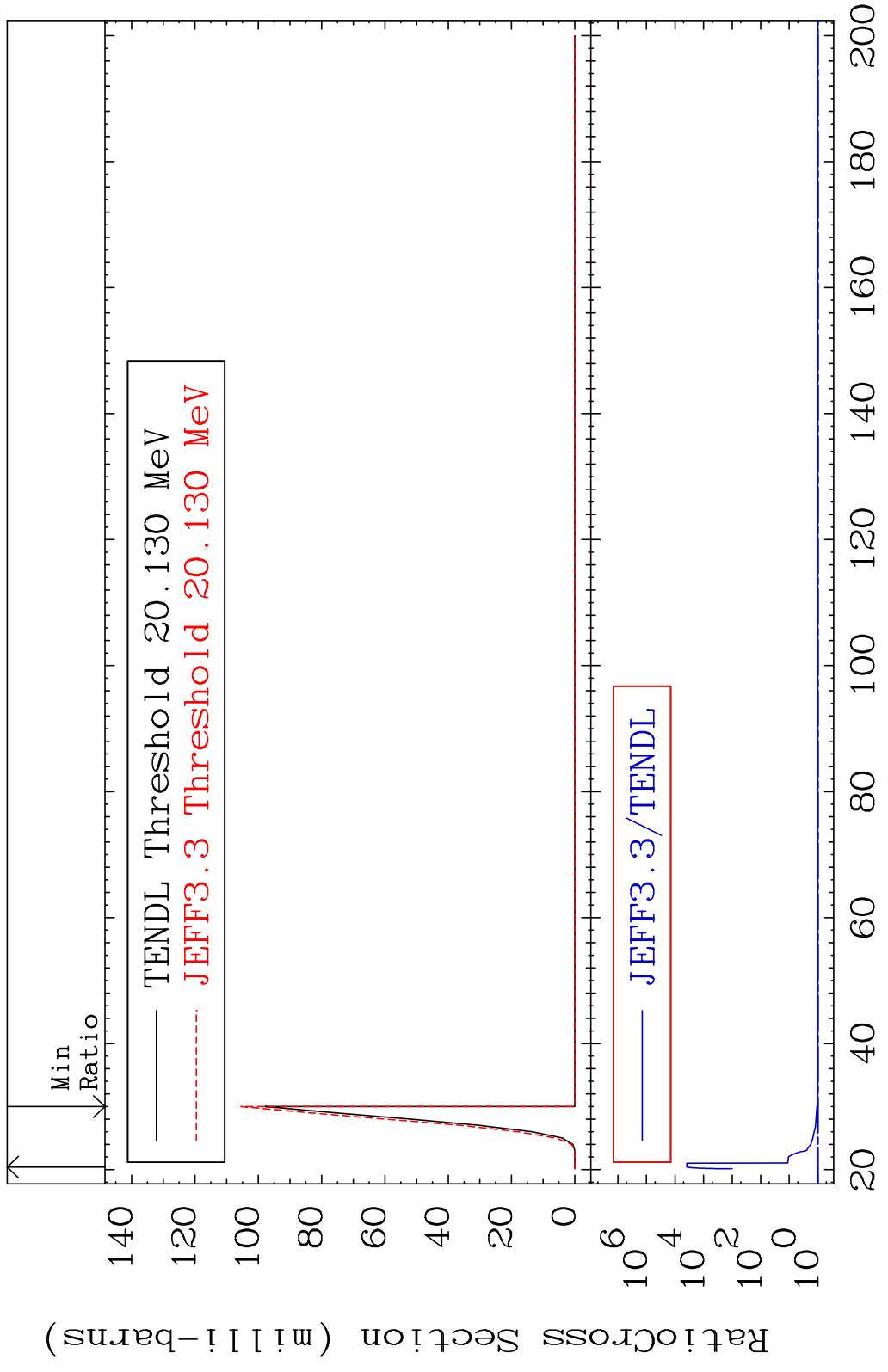


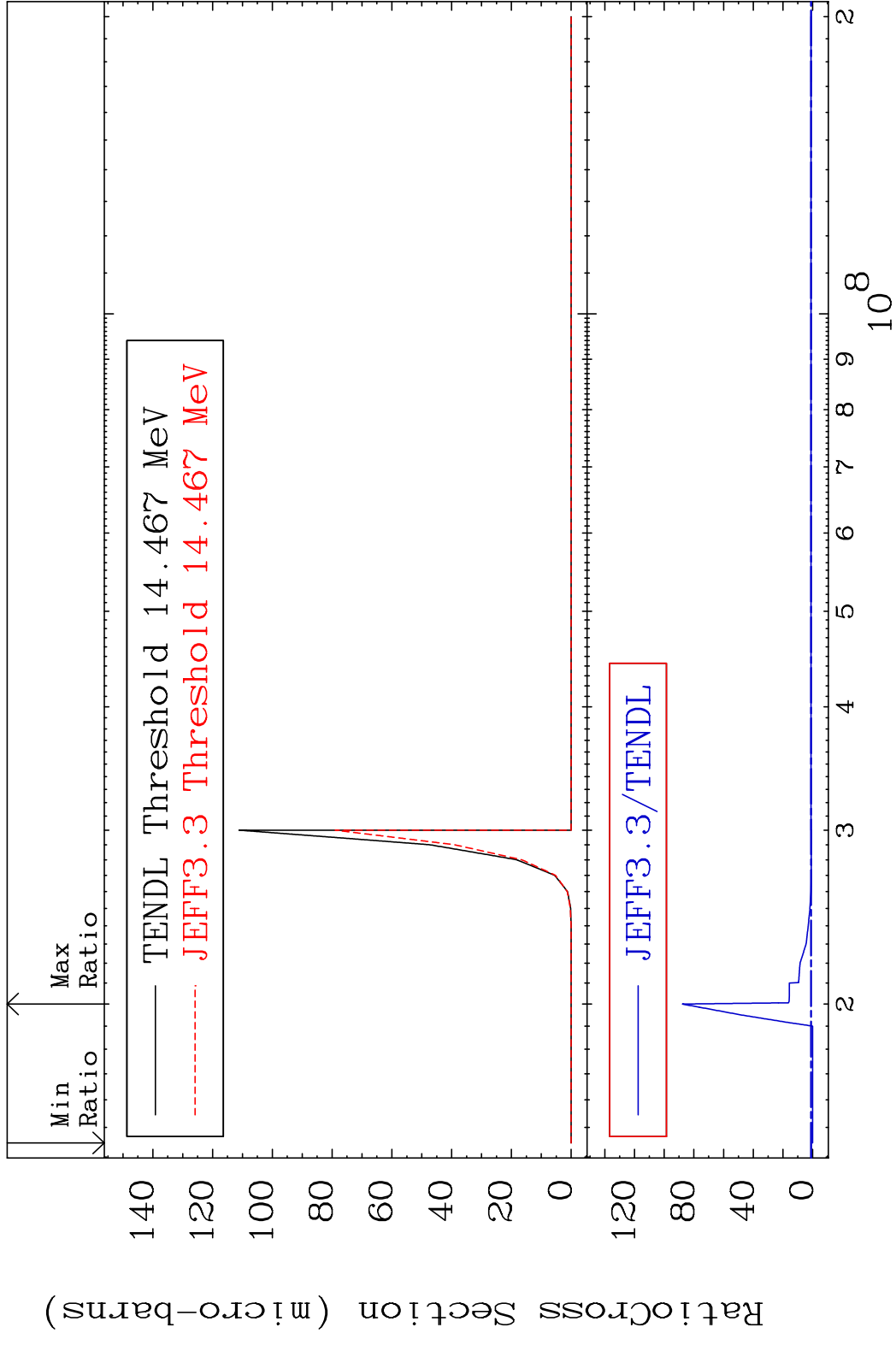


MAT 3825 (n, n') He-3:36-Kr-81m2 38-Sr-84
 Radionuclide Production Cross Section 18.293 MeV 1636. %

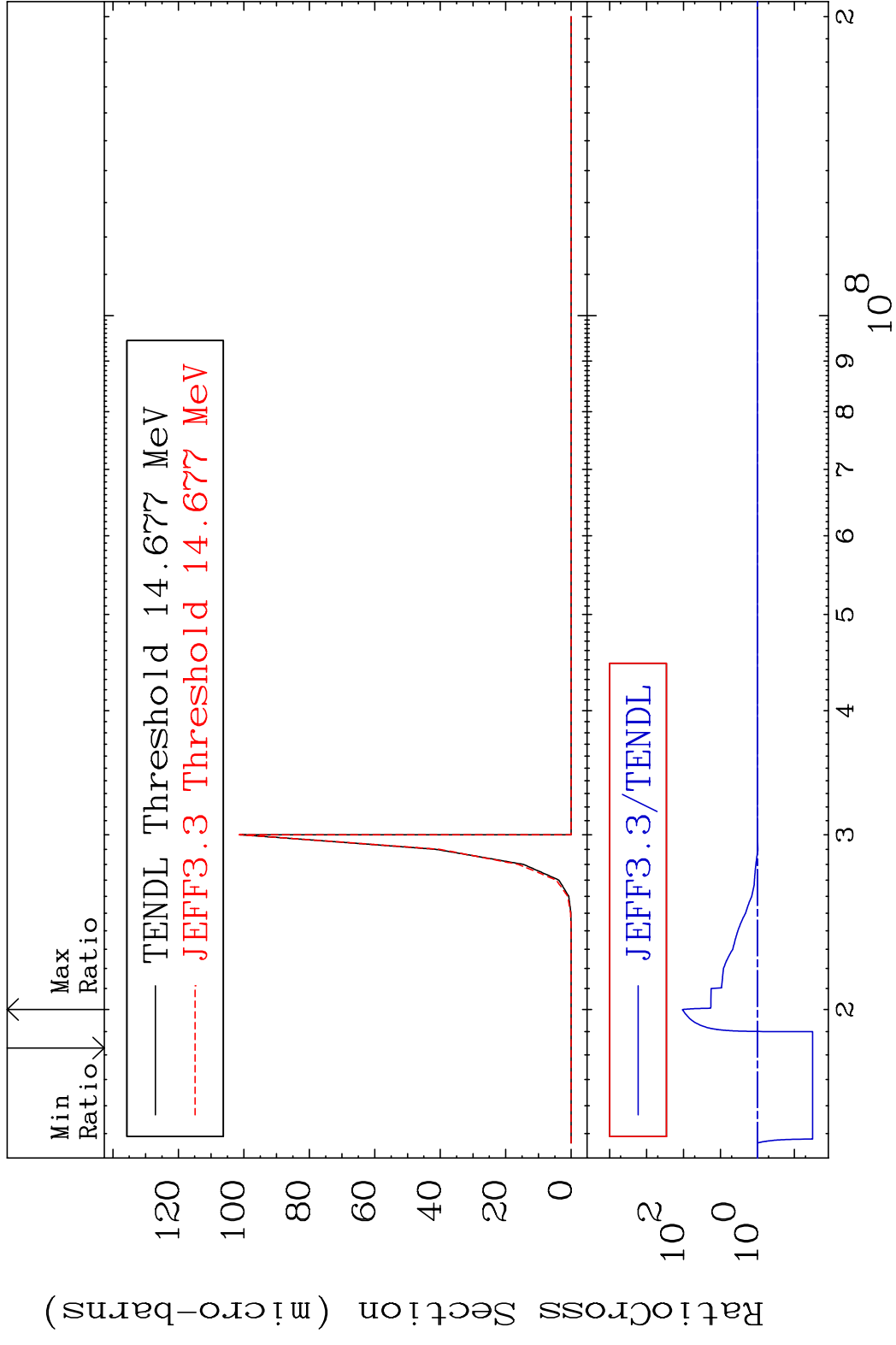




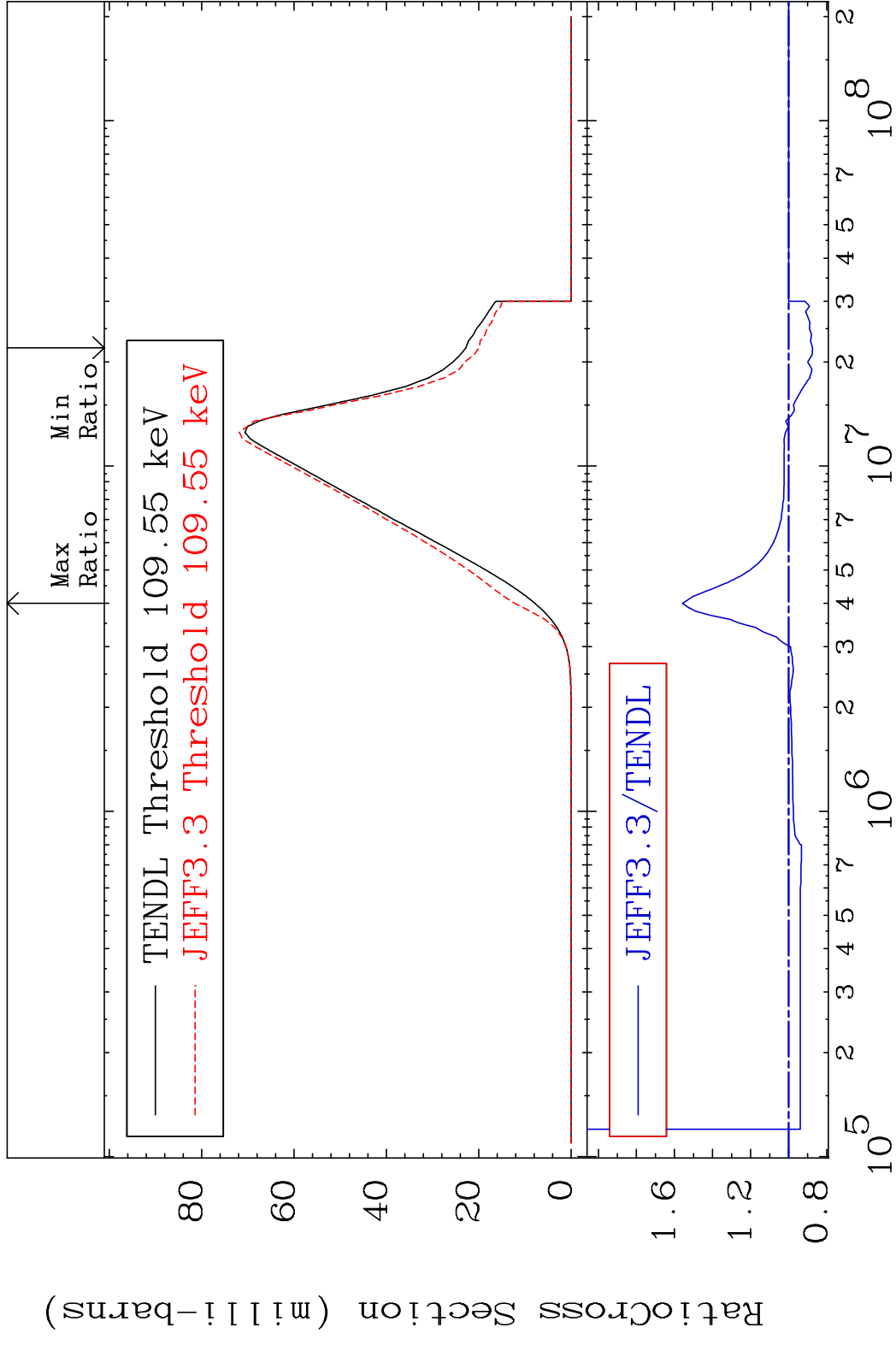




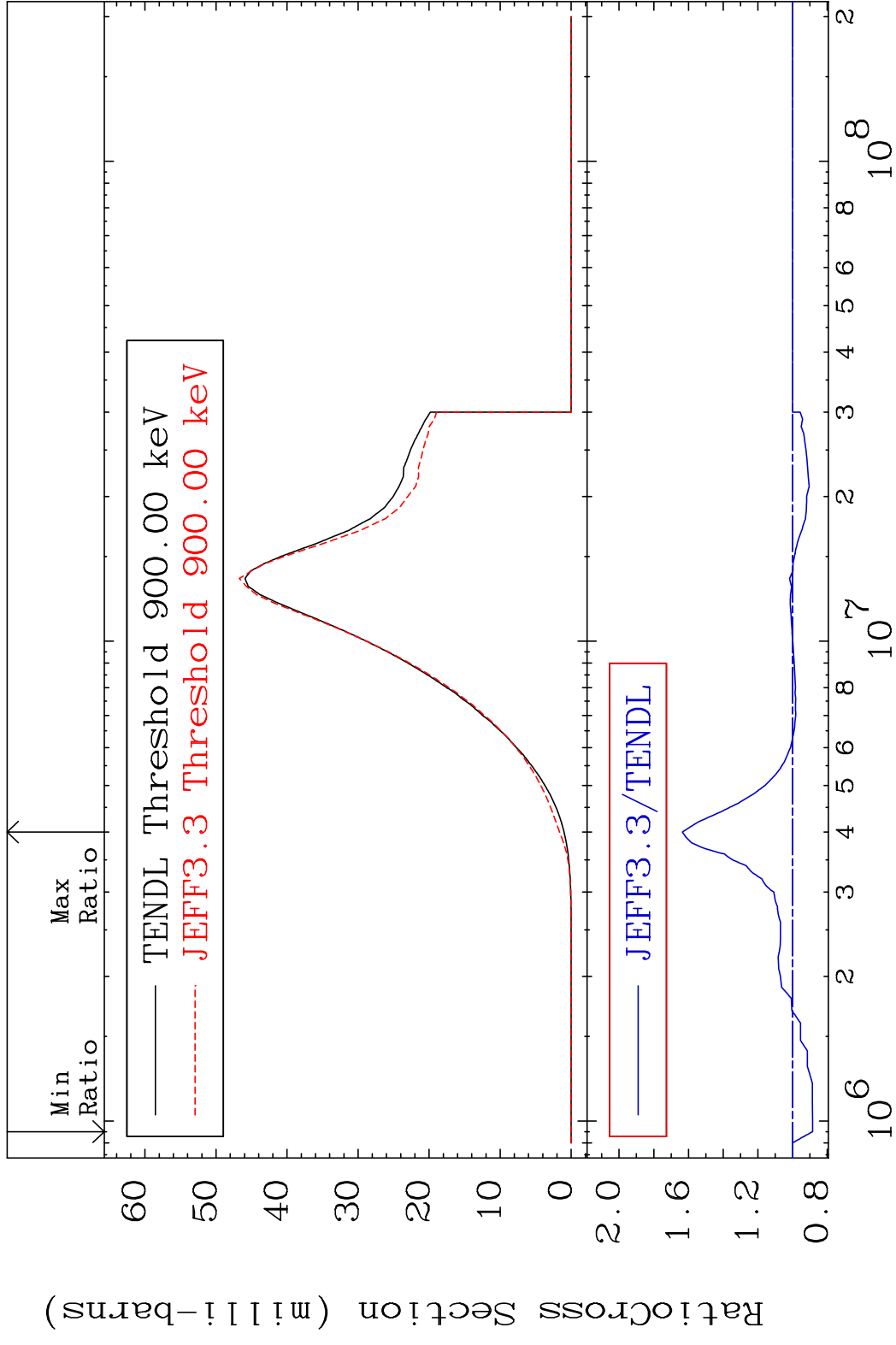
MAT 3825 (n, n') p α :35-Br-79m1 38-Sr-84
 Radionuclide Production Cross Section to 9999. %



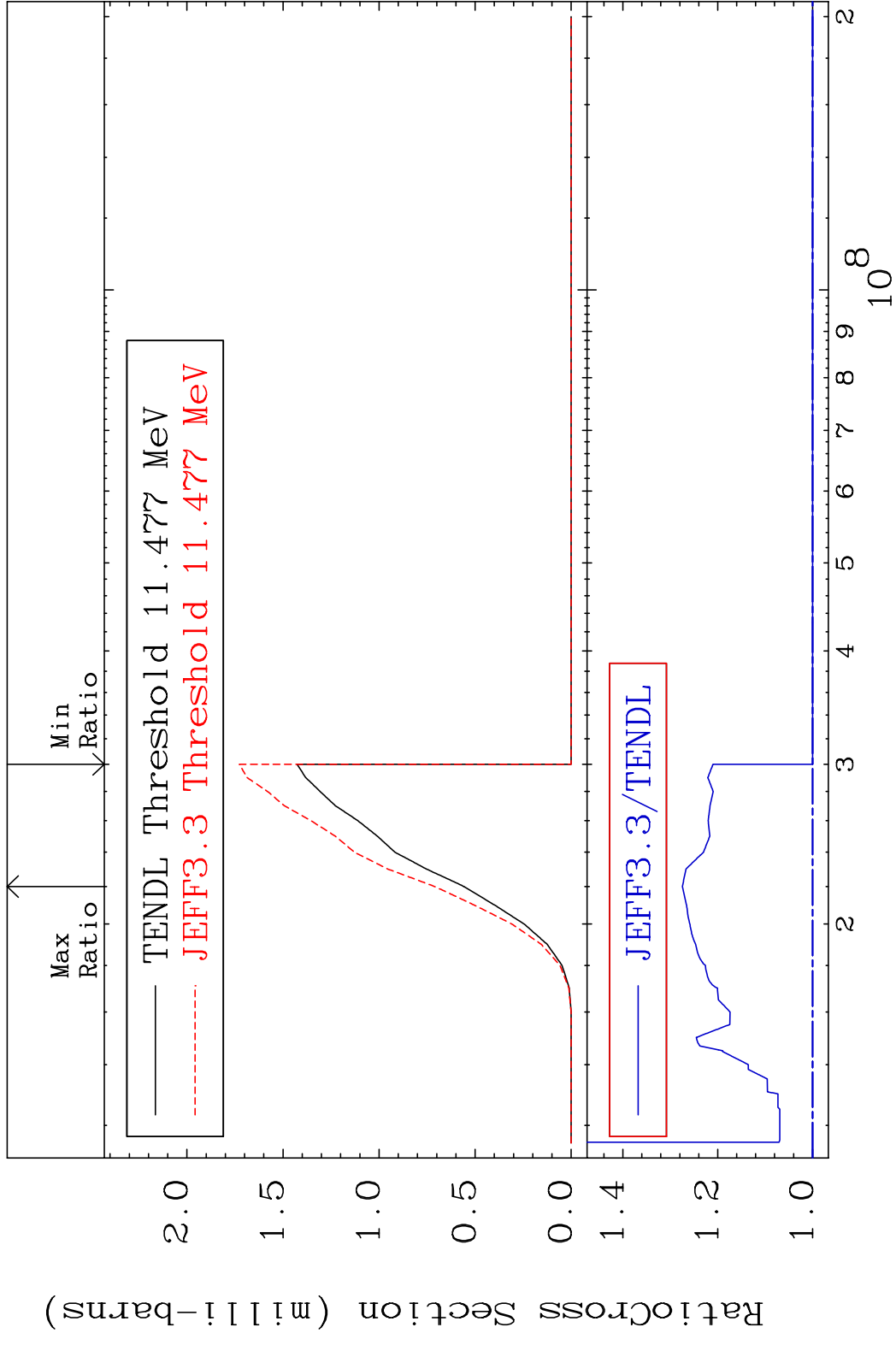
MAT 3825 (n, p): 37-Rb-84g 38-Sr-84
 Radionuclide Production Cross Section 55.87 %



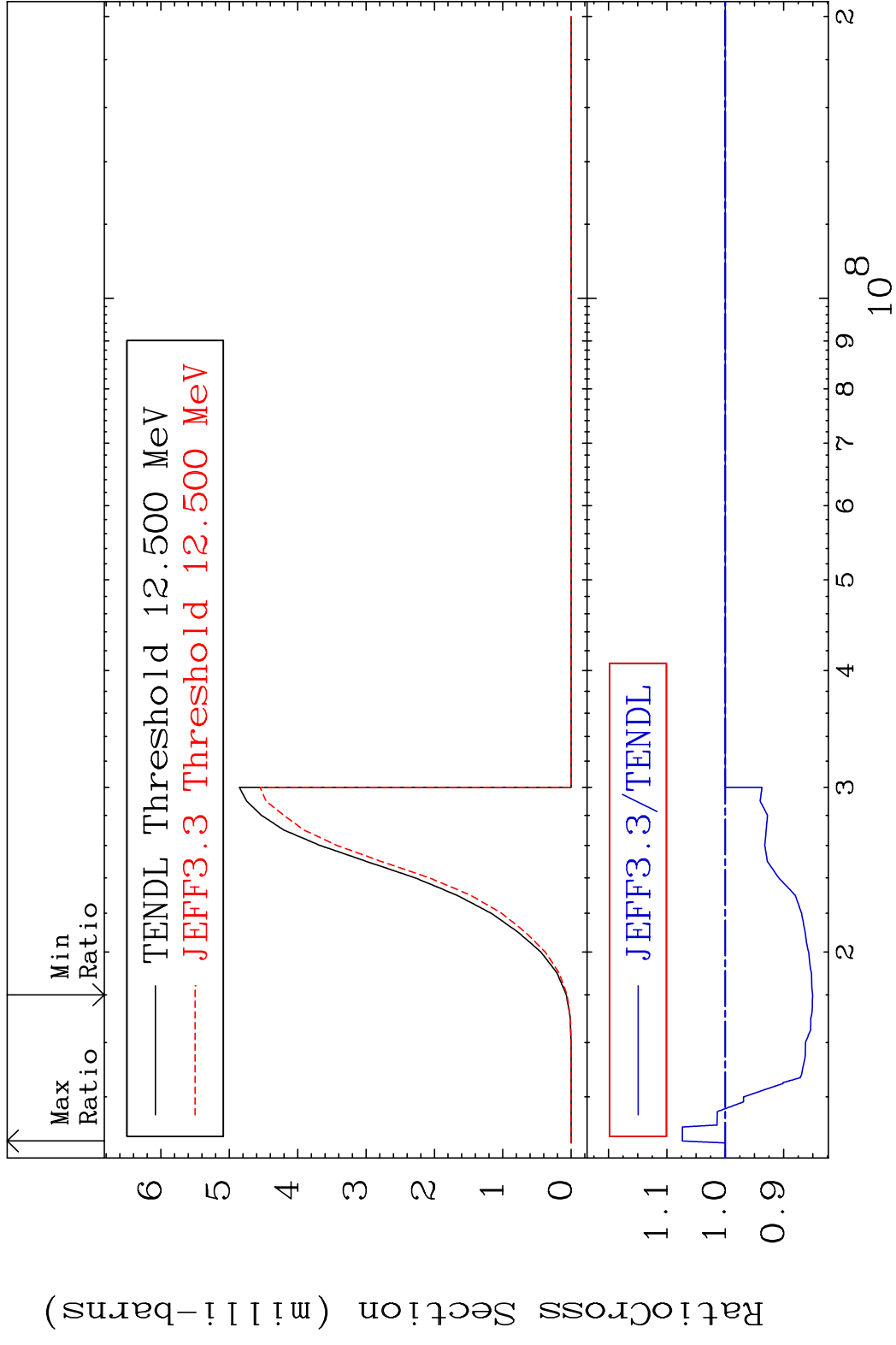
78 Incident Energy (eV) 38-Sr-84

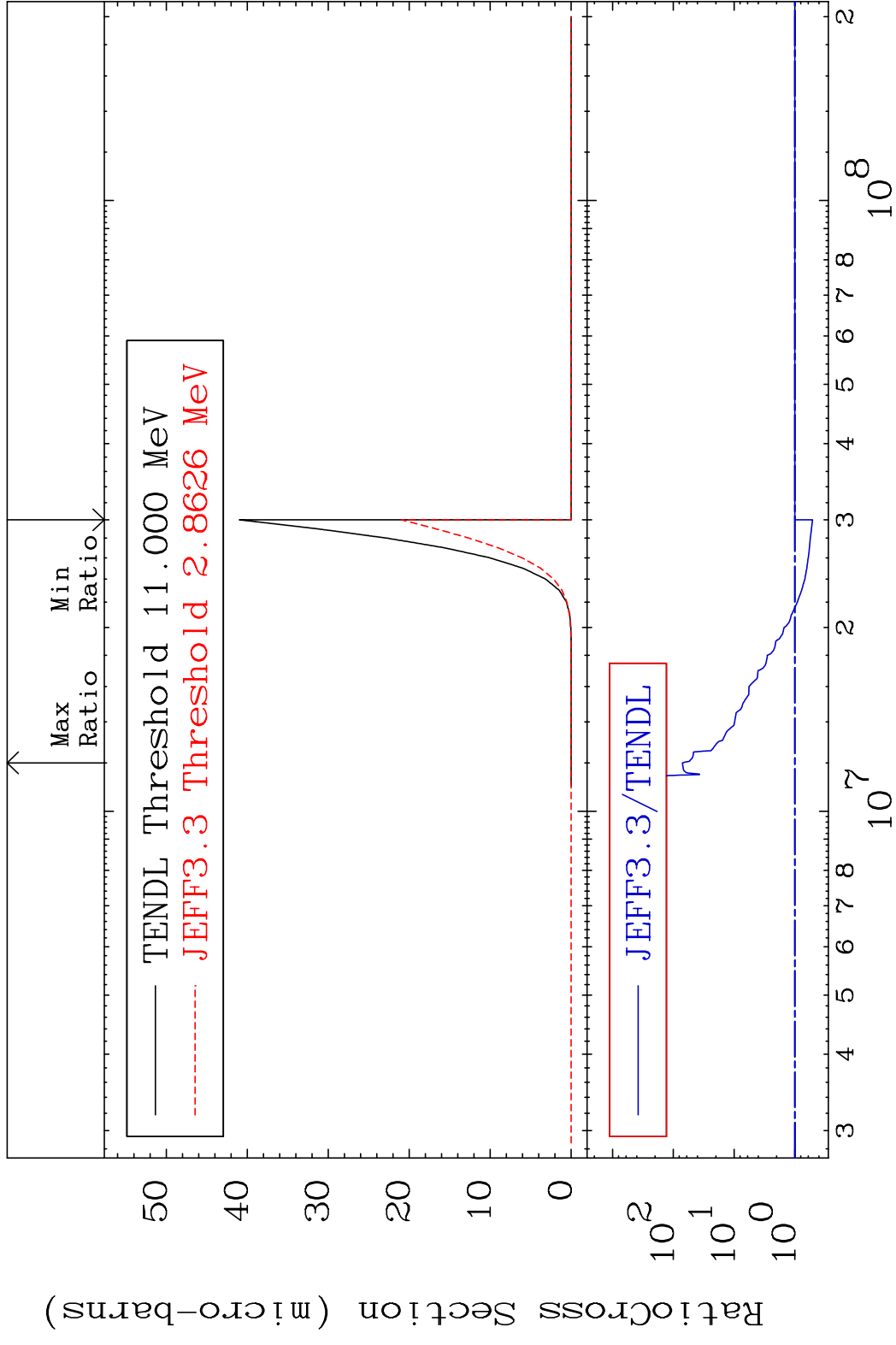


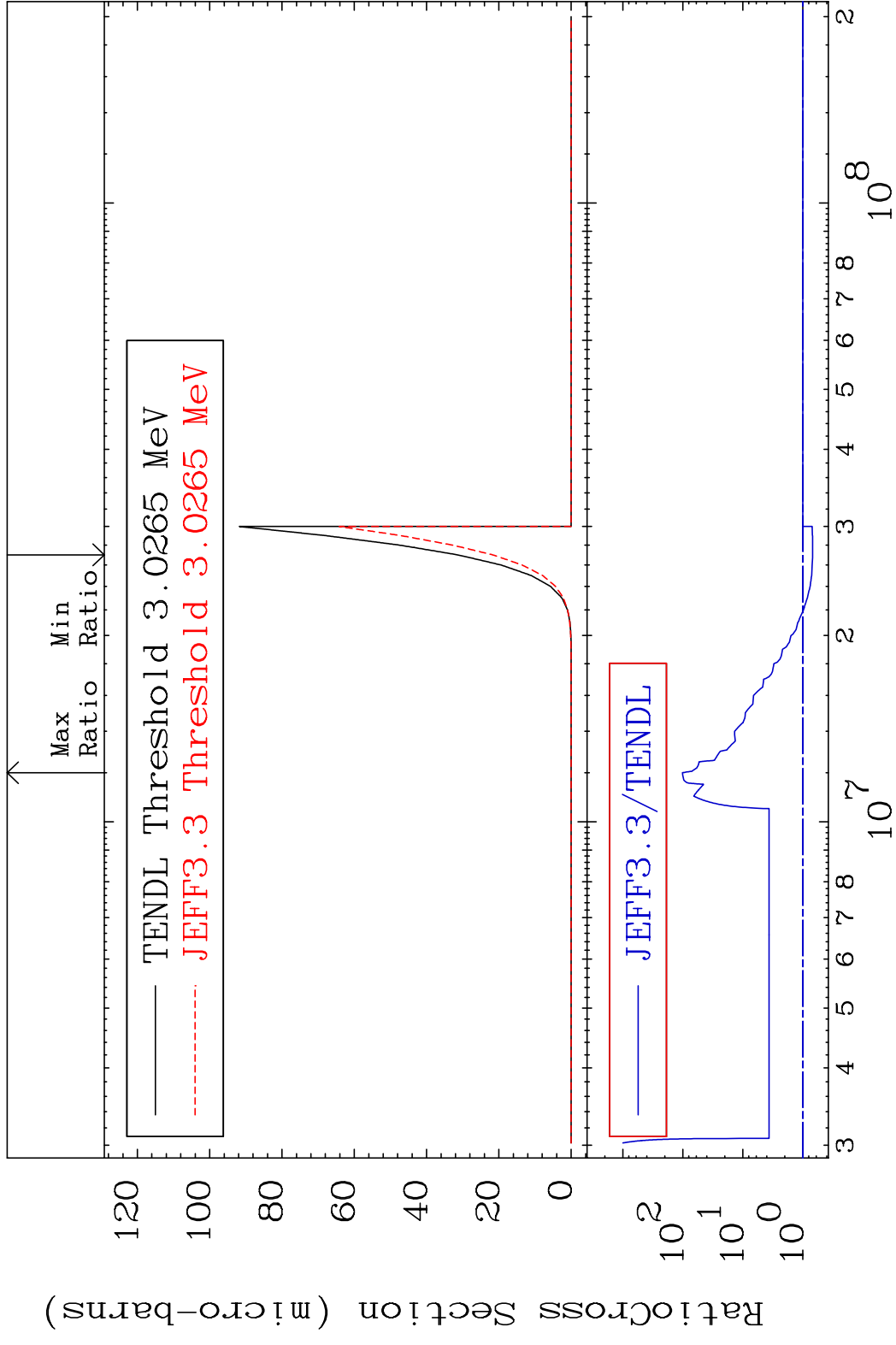
MAT 3825 (n, t):37-Rb-82g 38-Sr-84
 Radionuclide Production Cross Section 27.46 %



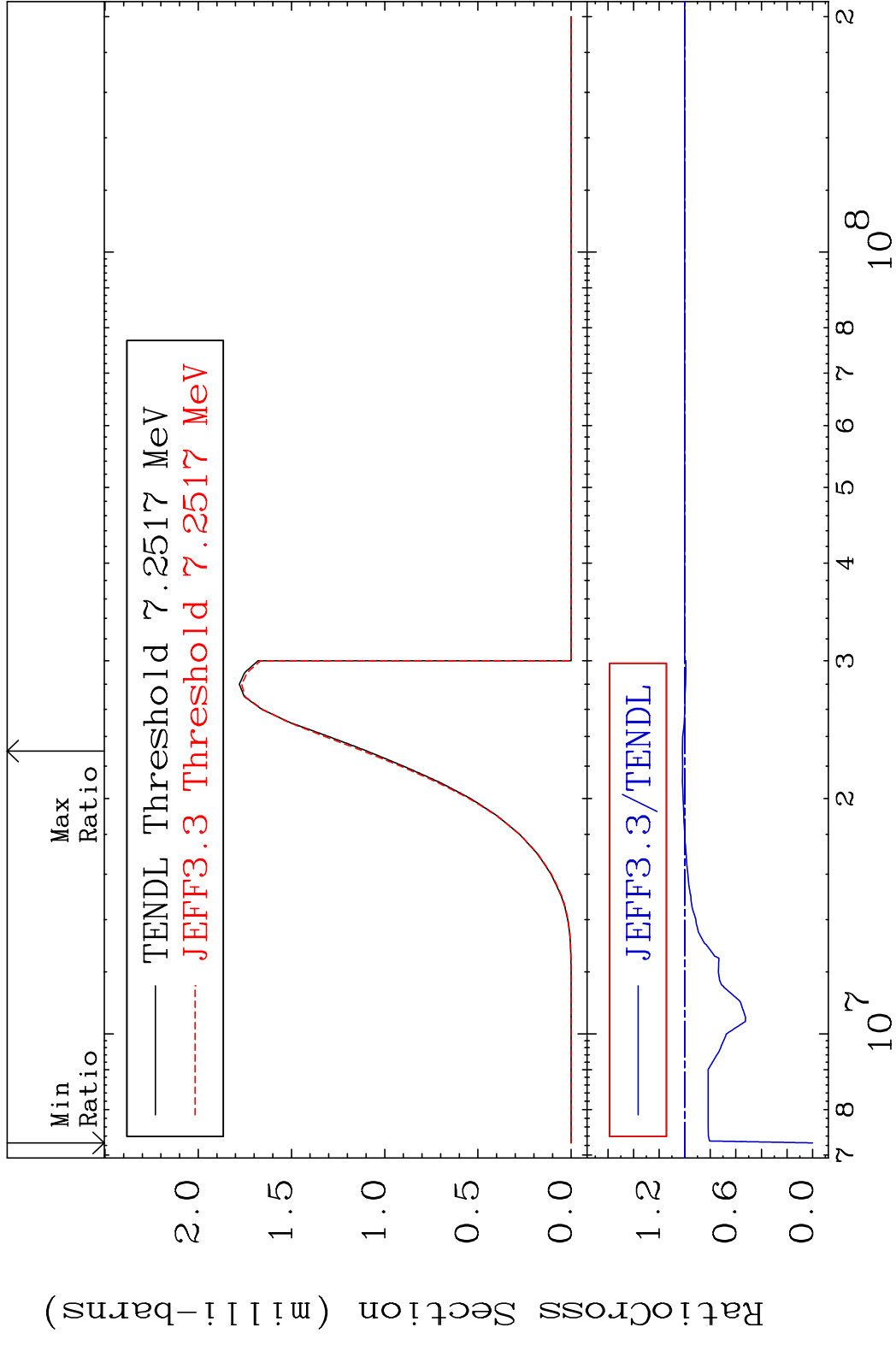
MAT 3825 (n, t):37-Rb-82m1 38-Sr-84
 Radionuclide Production Cross Section 1 Second 7.342 %



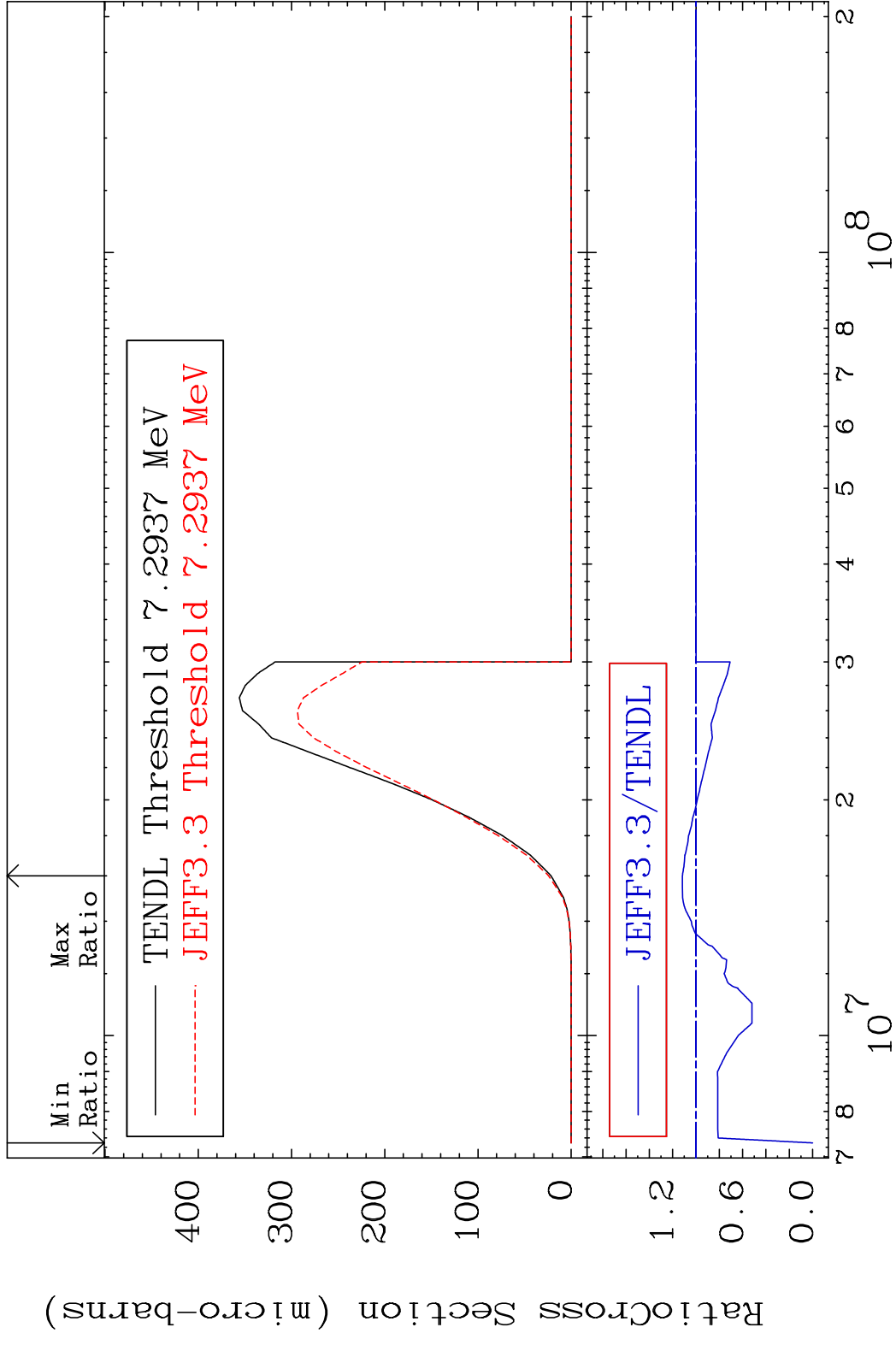


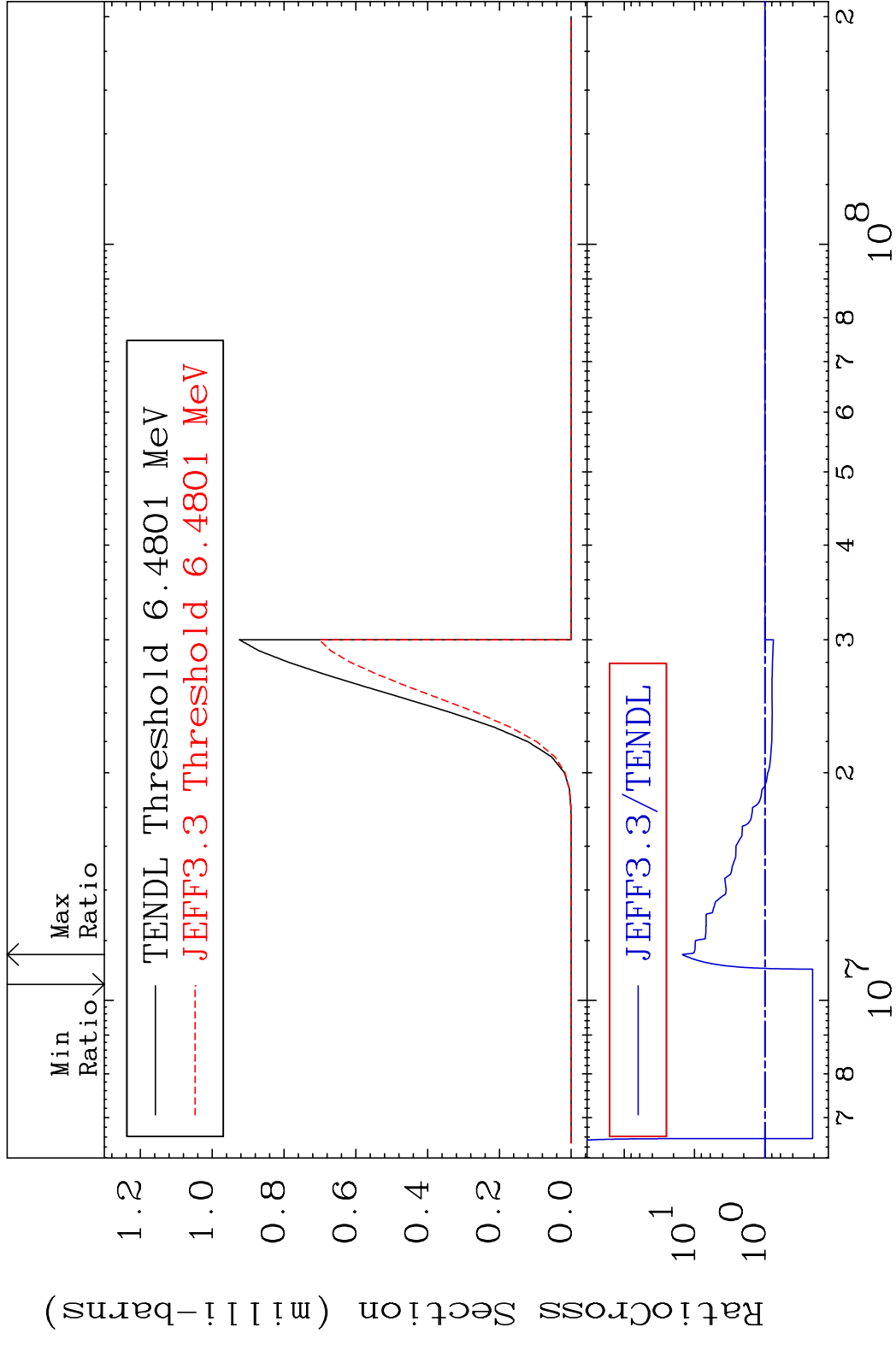


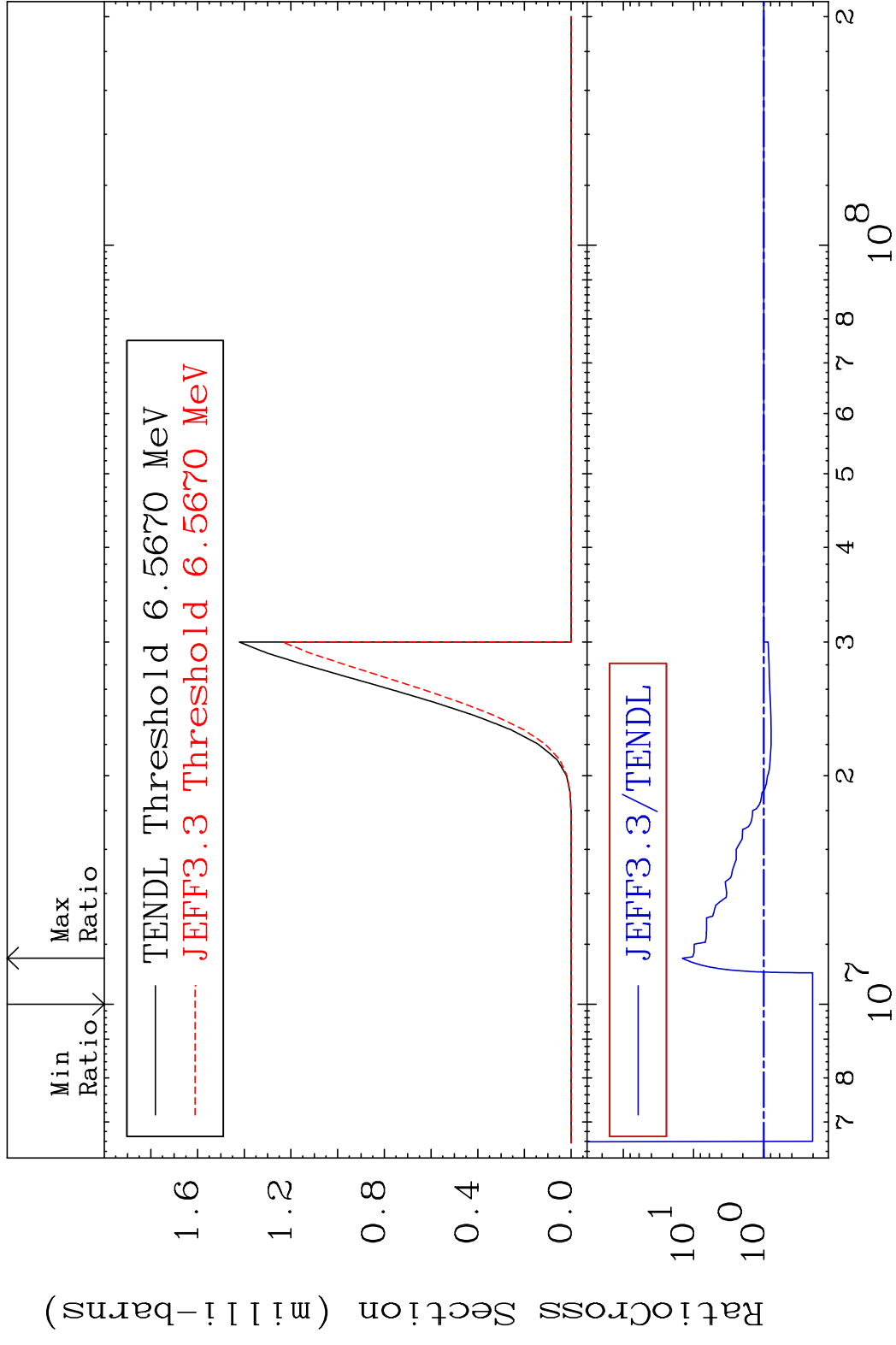
MAT 3825 (n,2p):36-Kr-83g 38-Sr-84
 Radionuclide Production Cross Section 1.855 %



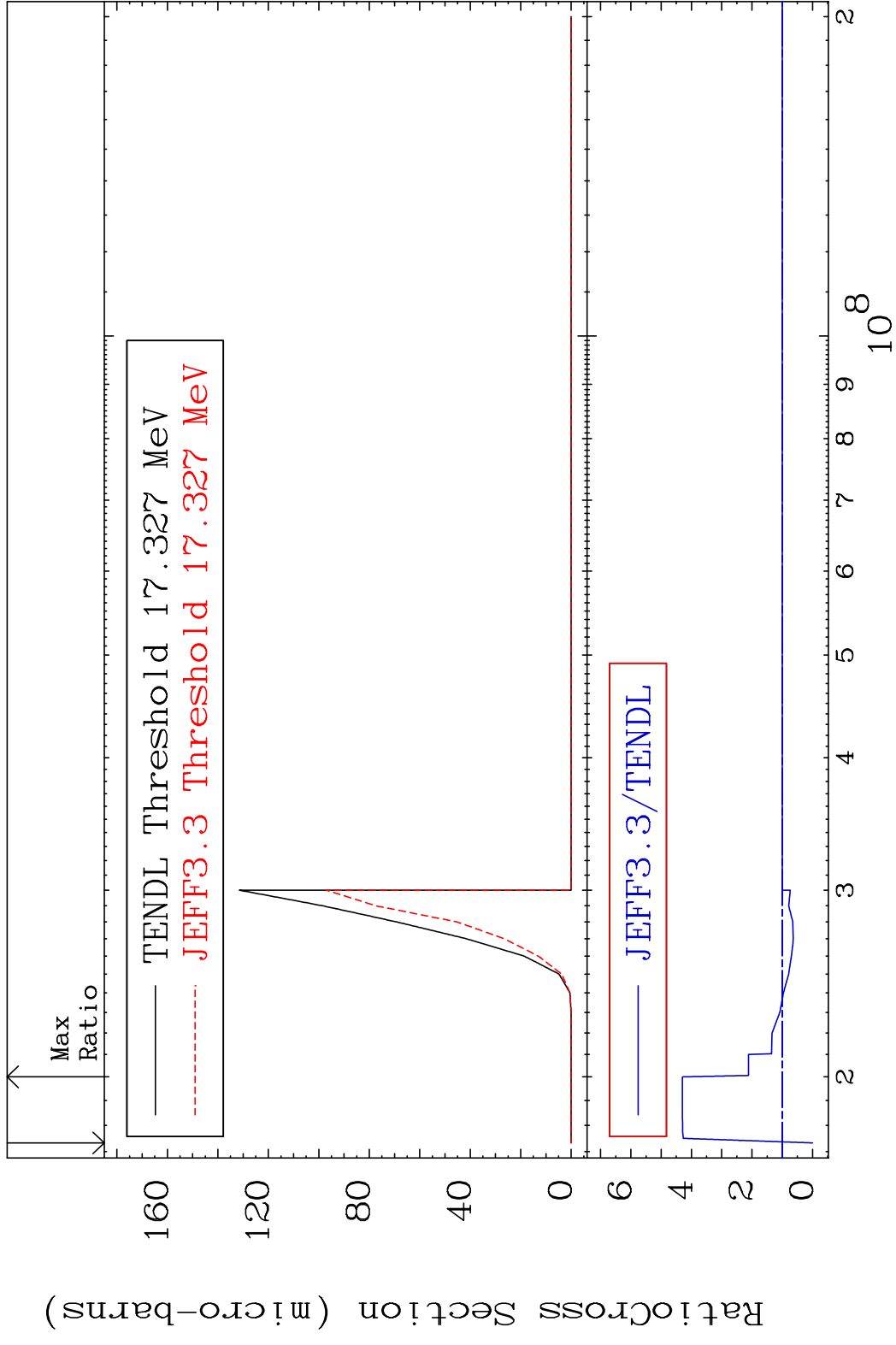
MAT 3825 (n,2p):36-Kr-83m2 38-Sr-84
 Radionuclide Production Cross Section 180.01 dth 11.67 %

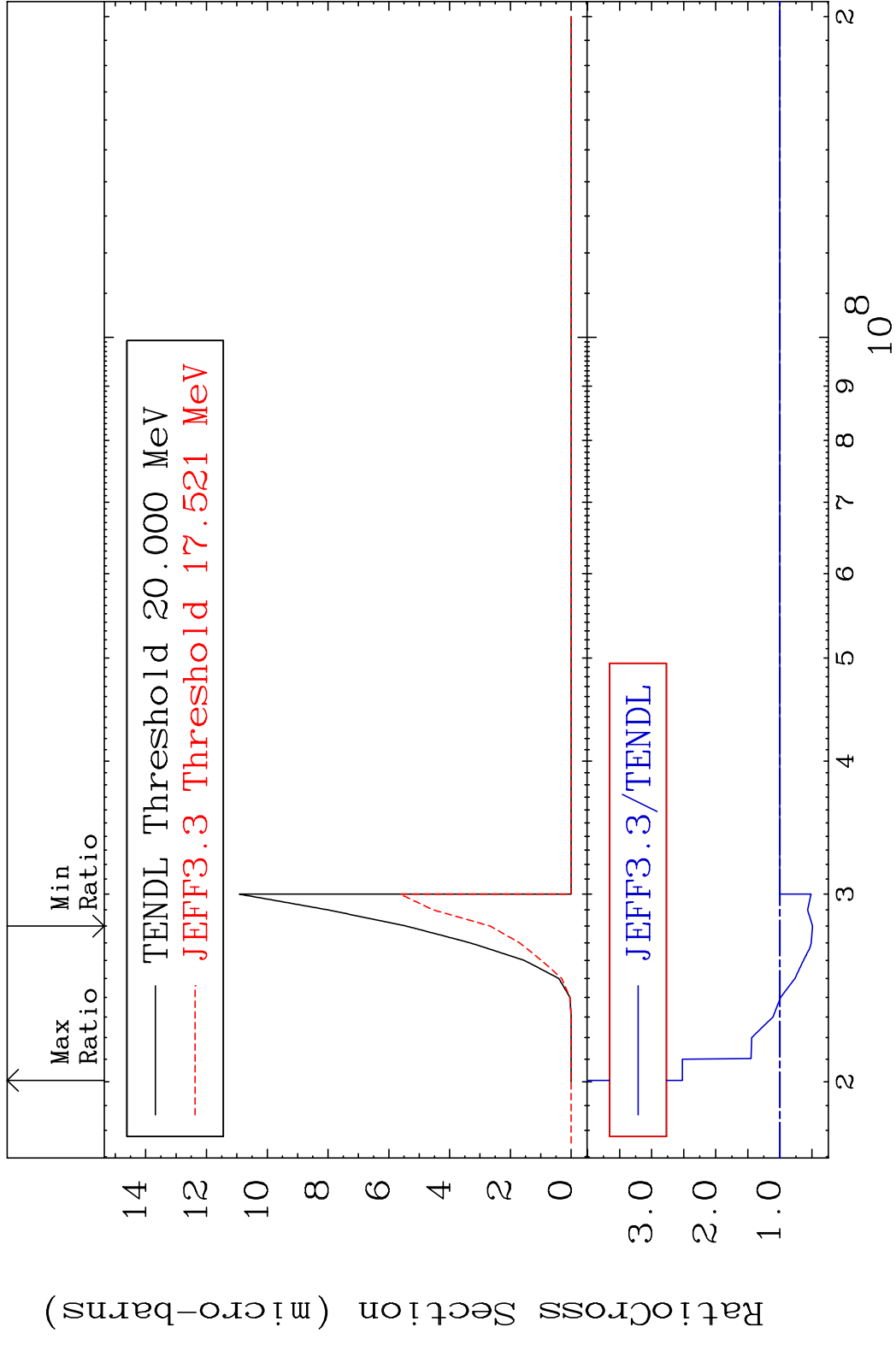






MAT 3825 (n, p) t:36-Kr-81g 38-Sr-84
 Radionuclide Production Cross Section 100.0 %
 330.0 %





MAT 3825 (n, d) α :35-Br-79g 38-Sr-84
 Radionuclide Production Cross Section 1170. %

