

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

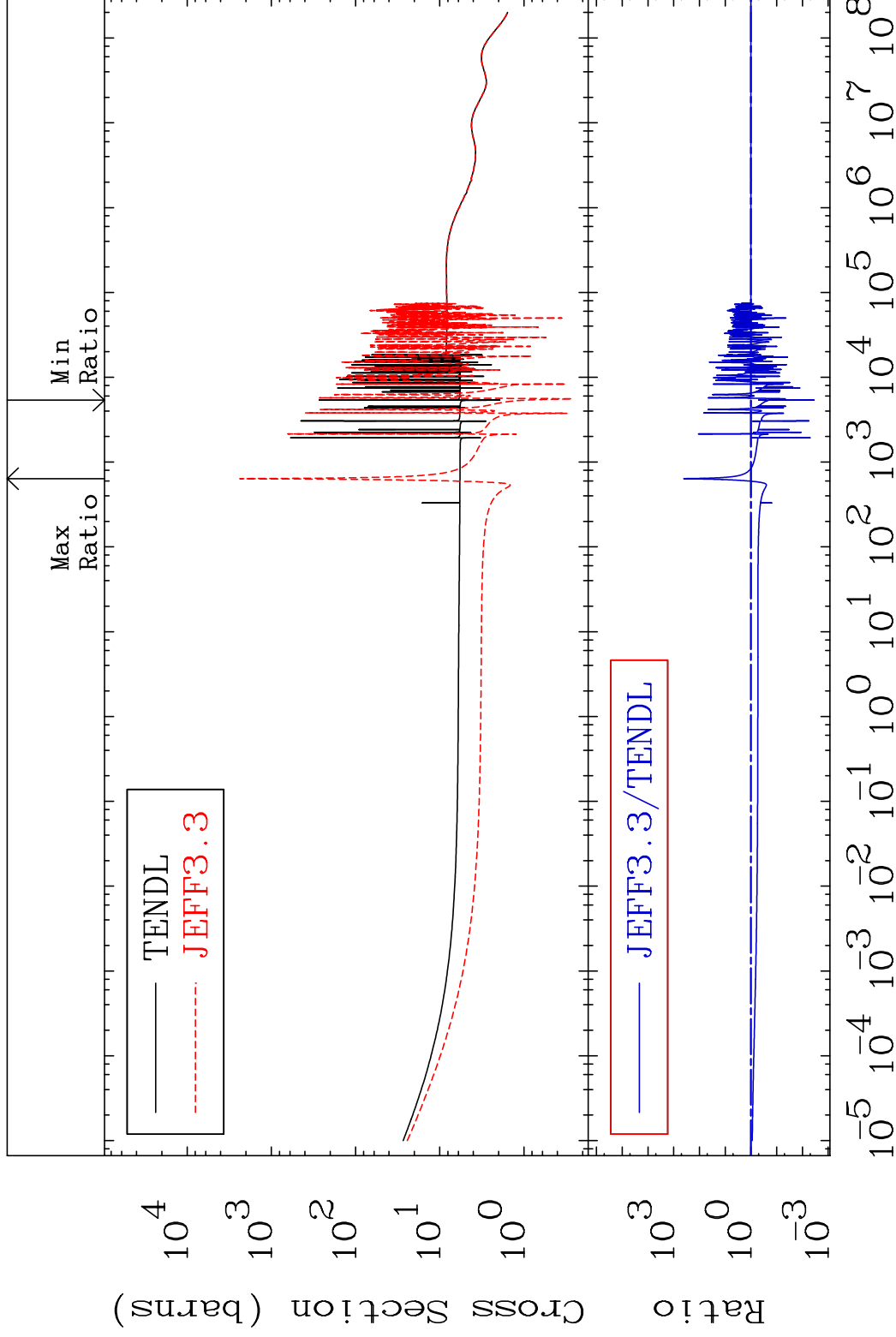
MAT 3840

Total

38-Sr-89

Cross Section

-99.65 To 9999. %



1

Incident Energy (eV)

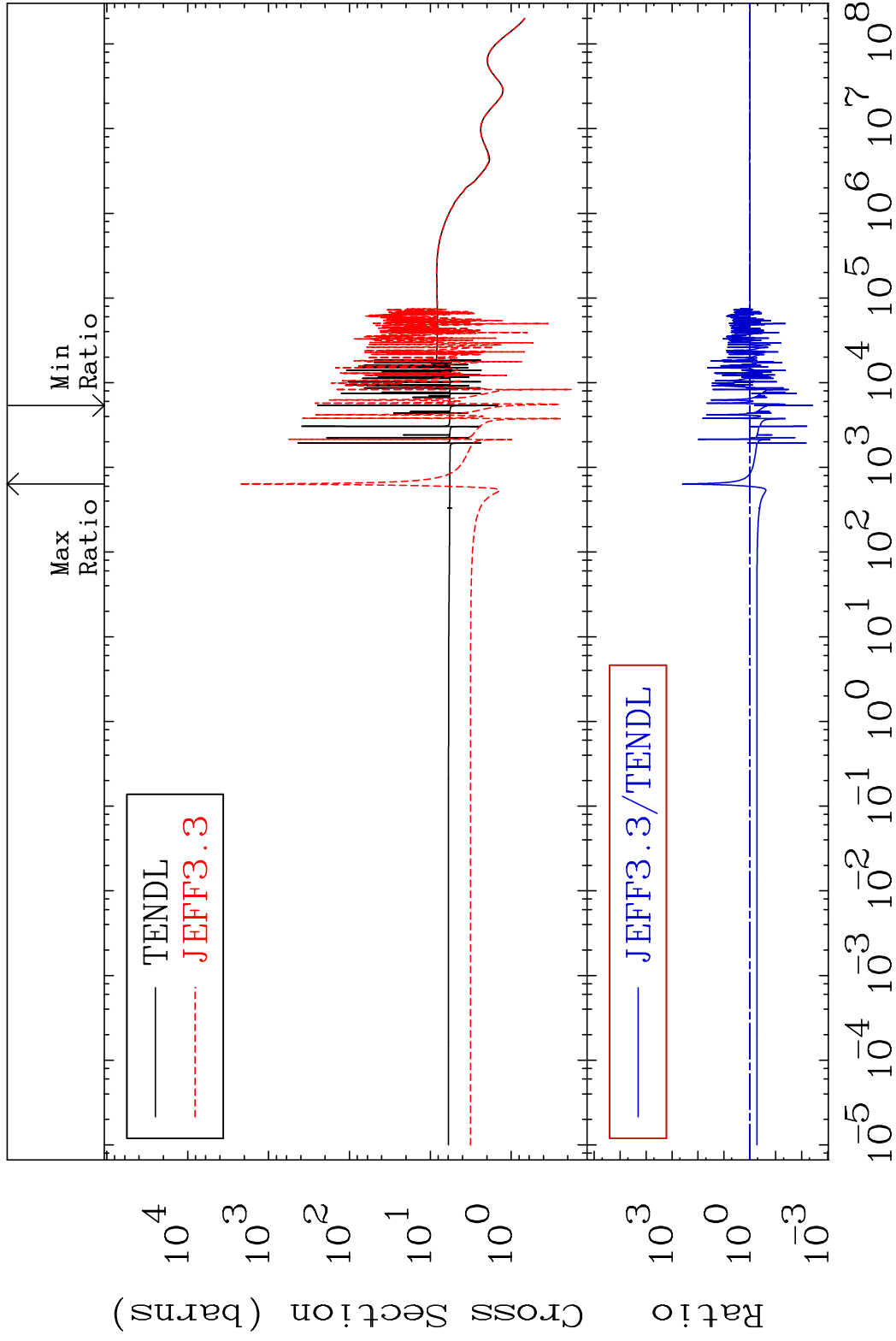
38-Sr-89

MAT 3840

Elastic

38-Sr-89

Cross Section -99.62 To 9999. %

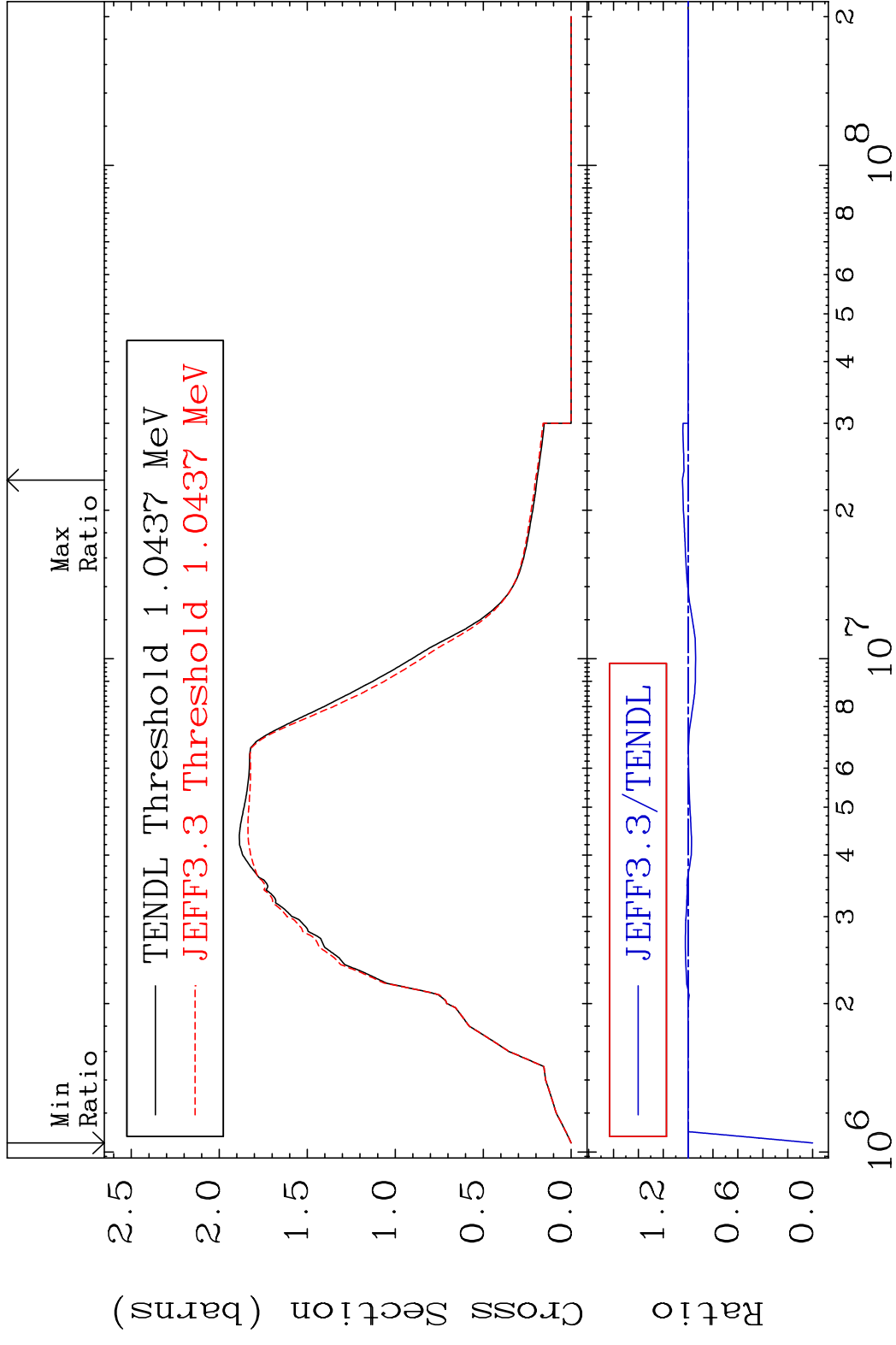


2

Incident Energy (eV)

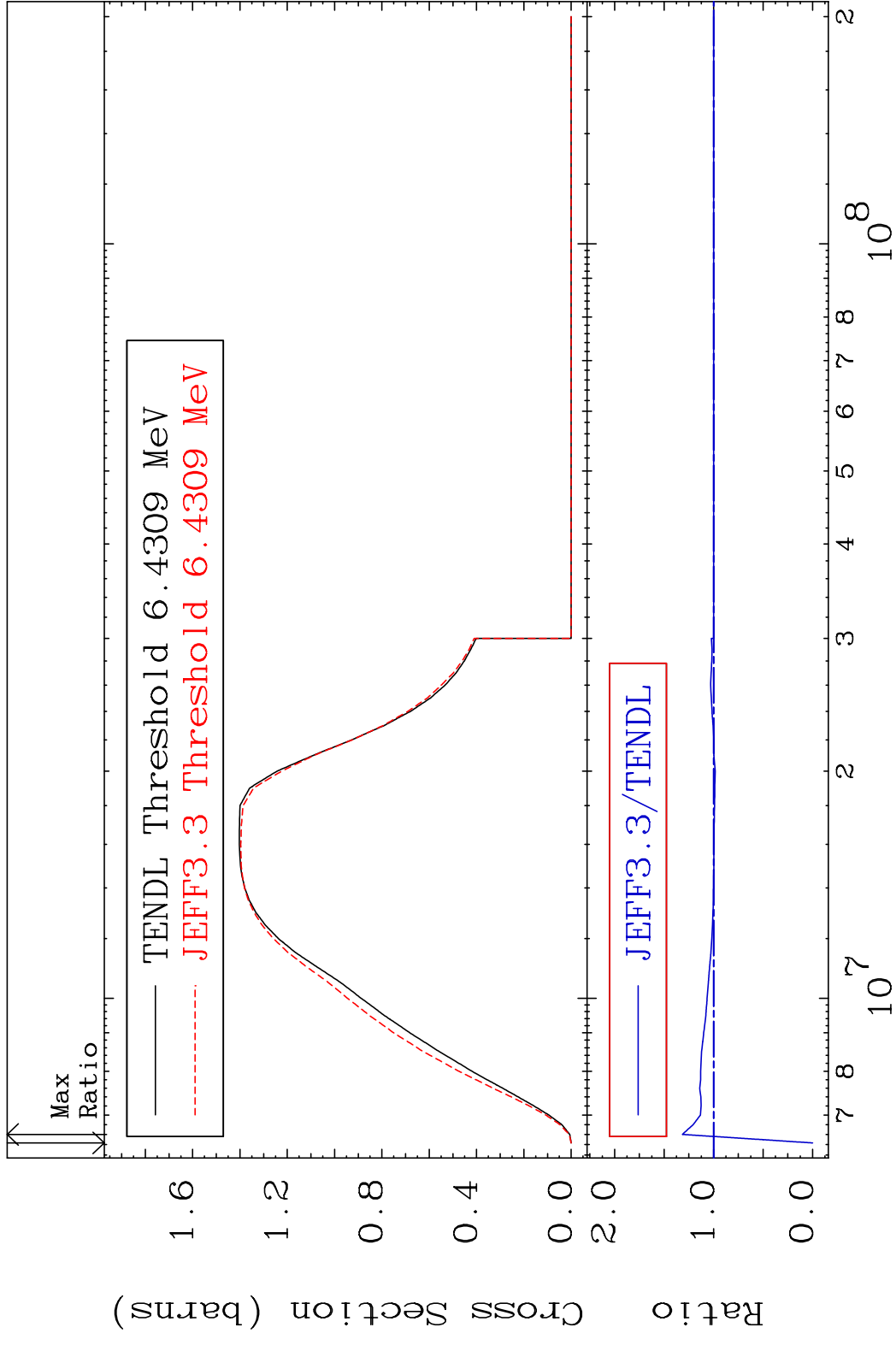
38-Sr-89

MAT 3840 Inelastic 38-Sr-89
 Cross Section -100.0 To 4.633 %



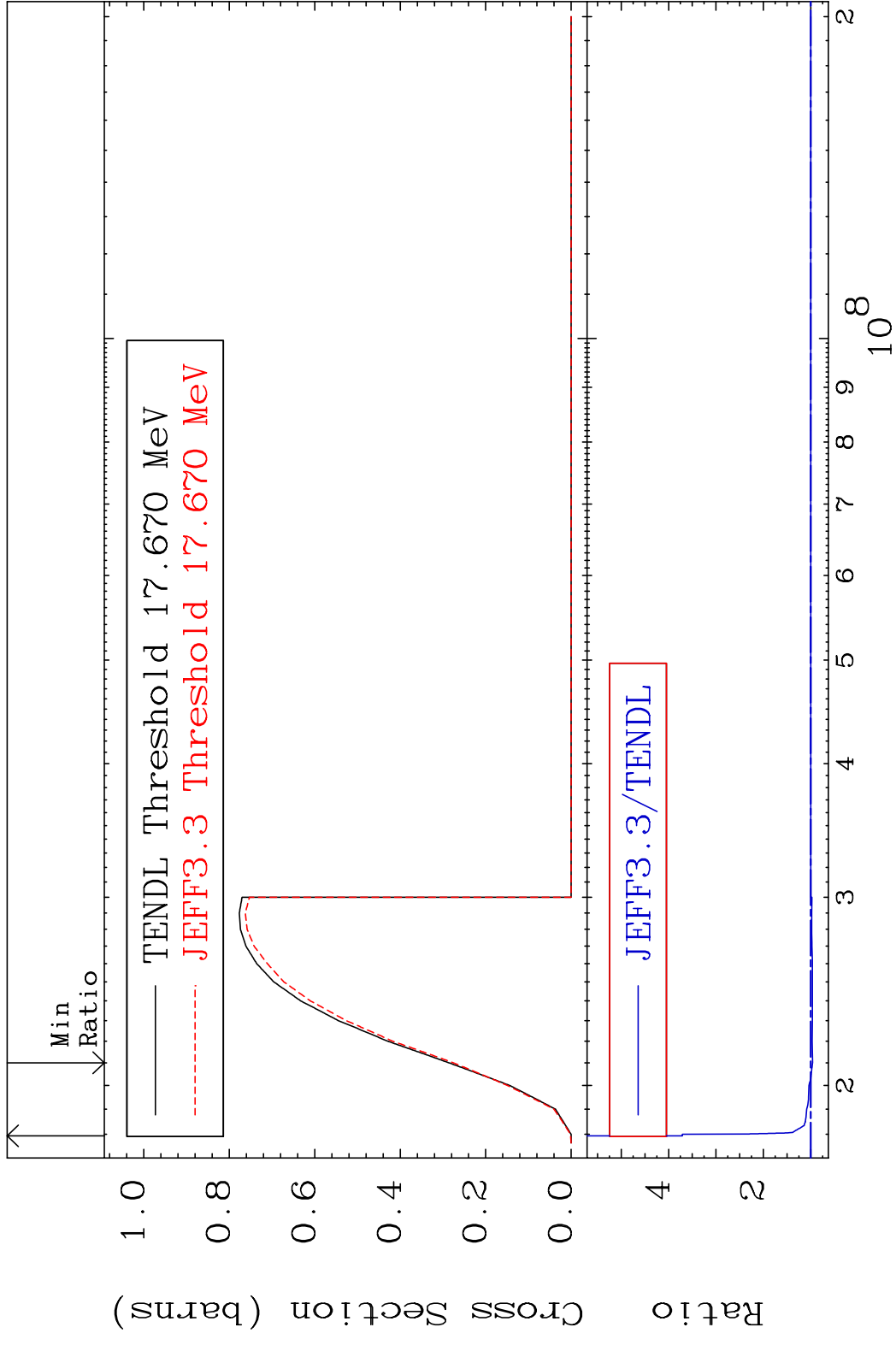
3 2 3 4 5 6 8 10⁶ 10⁷ 10⁸ 38-Sr-89

MAT 3840 (n,2n) 38-Sr-89
 Cross Section -100.0 To 31.56 %

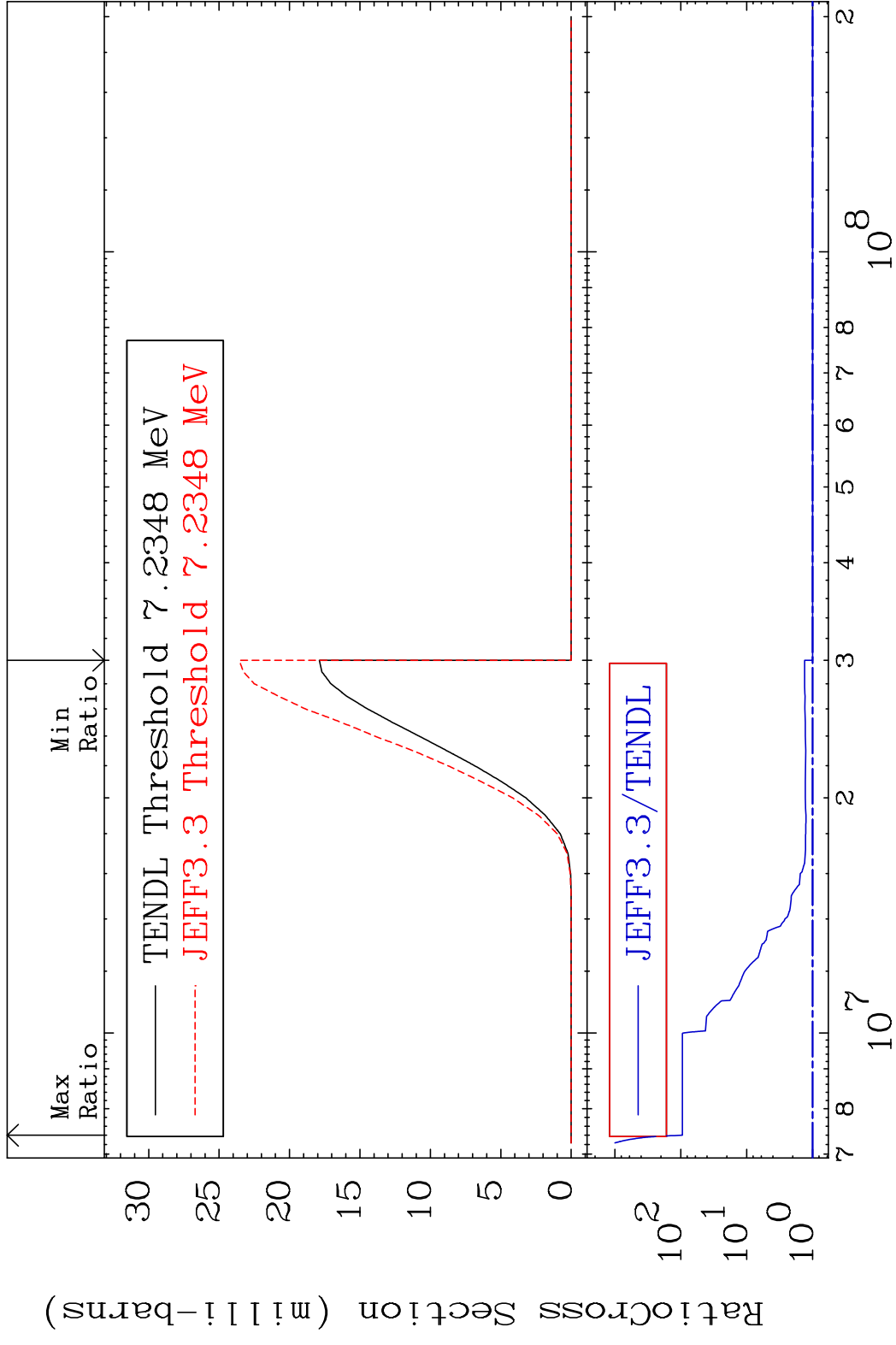


5 Incident Energy (eV) 38-Sr-89

MAT 3840 (n,3n) 38-Sr-89
 Cross Section -3.775 To 271.0 %



MAT 3840 $(n, n') \alpha$ 38-Sr-89
 Cross Section 0.000 To 9370. %



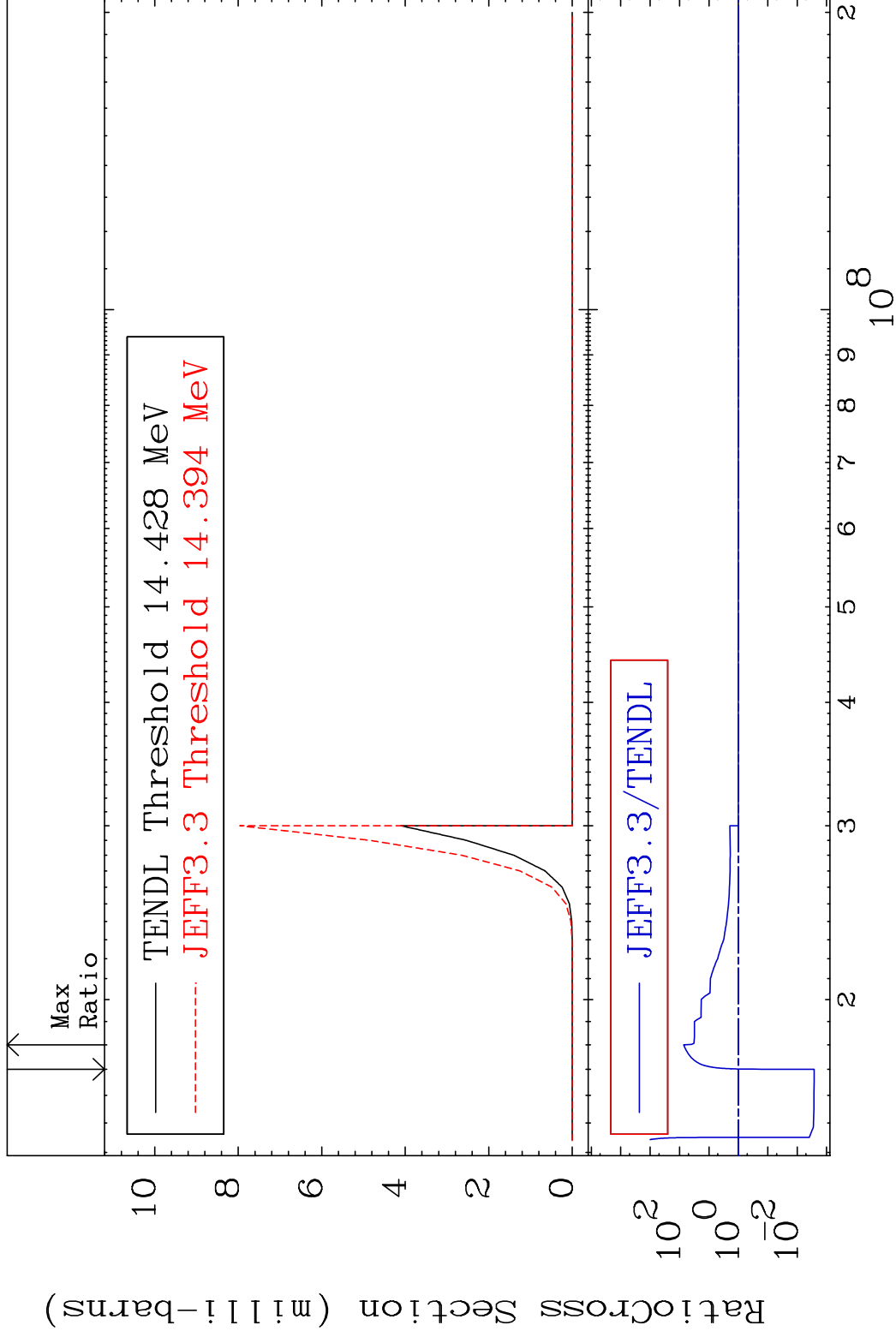
7 Incident Energy (eV) 38-Sr-89

MAT 3840

(n,2n) α

38-Sr-89

Cross Section -99.73 To 7141. %



8

Incident Energy (eV)

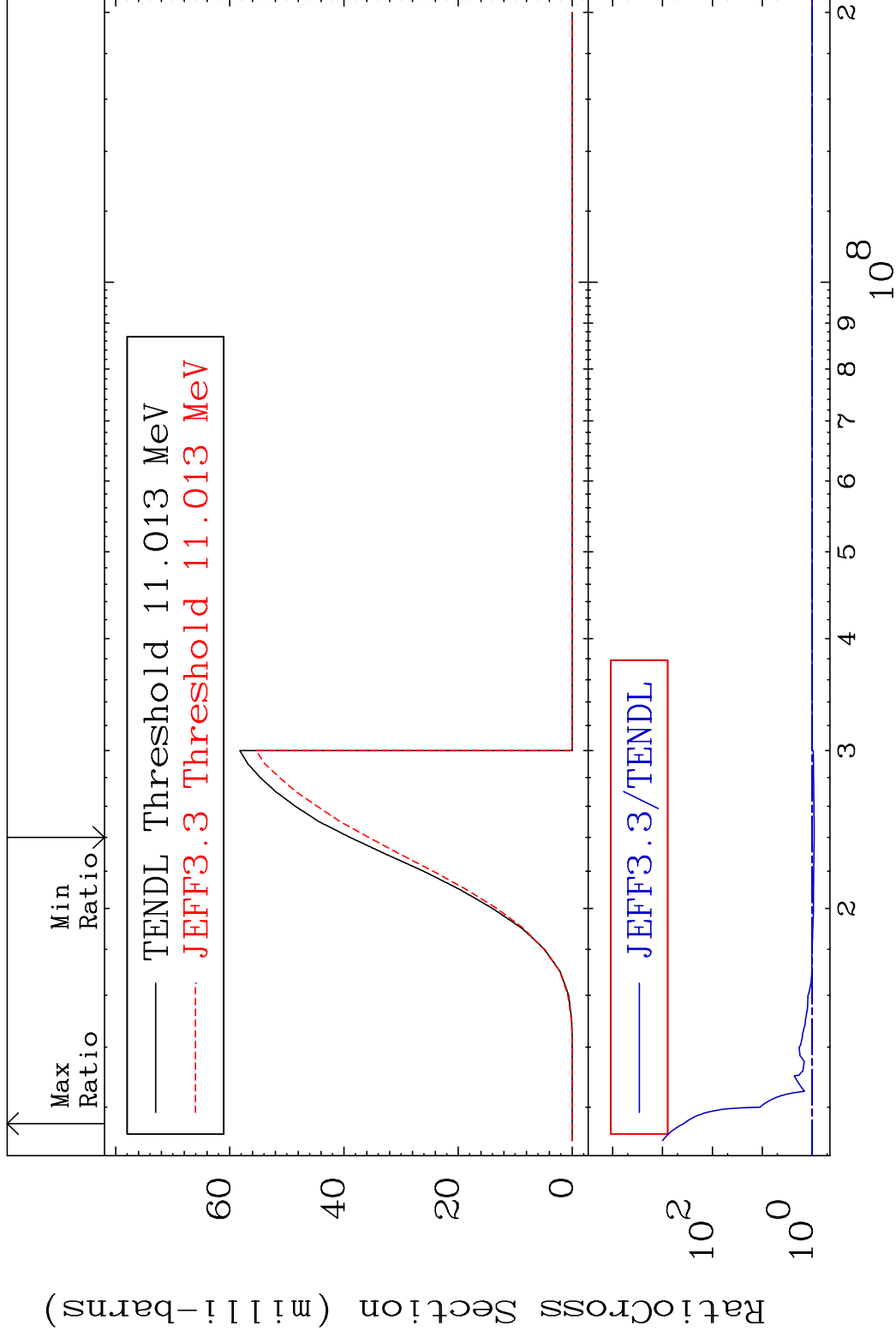
38-Sr-89

MAT 3840

(n, n') p

38-Sr-89

Cross Section -8.424 To 9999. %



9

Incident Energy (eV)

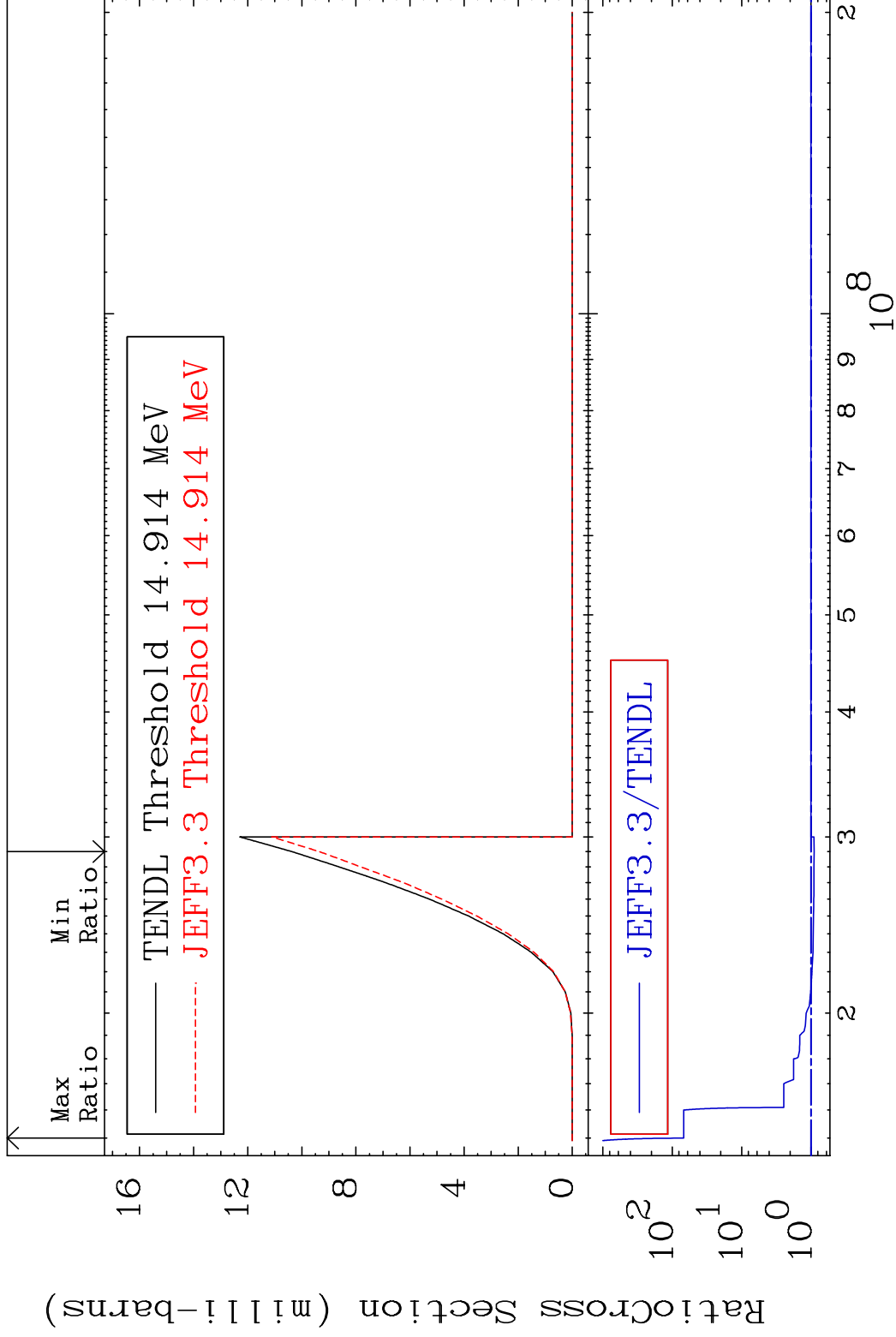
38-Sr-89

MAT 3840

(n, n') d

38-Sr-89

Cross Section -9.778 To 6749. %

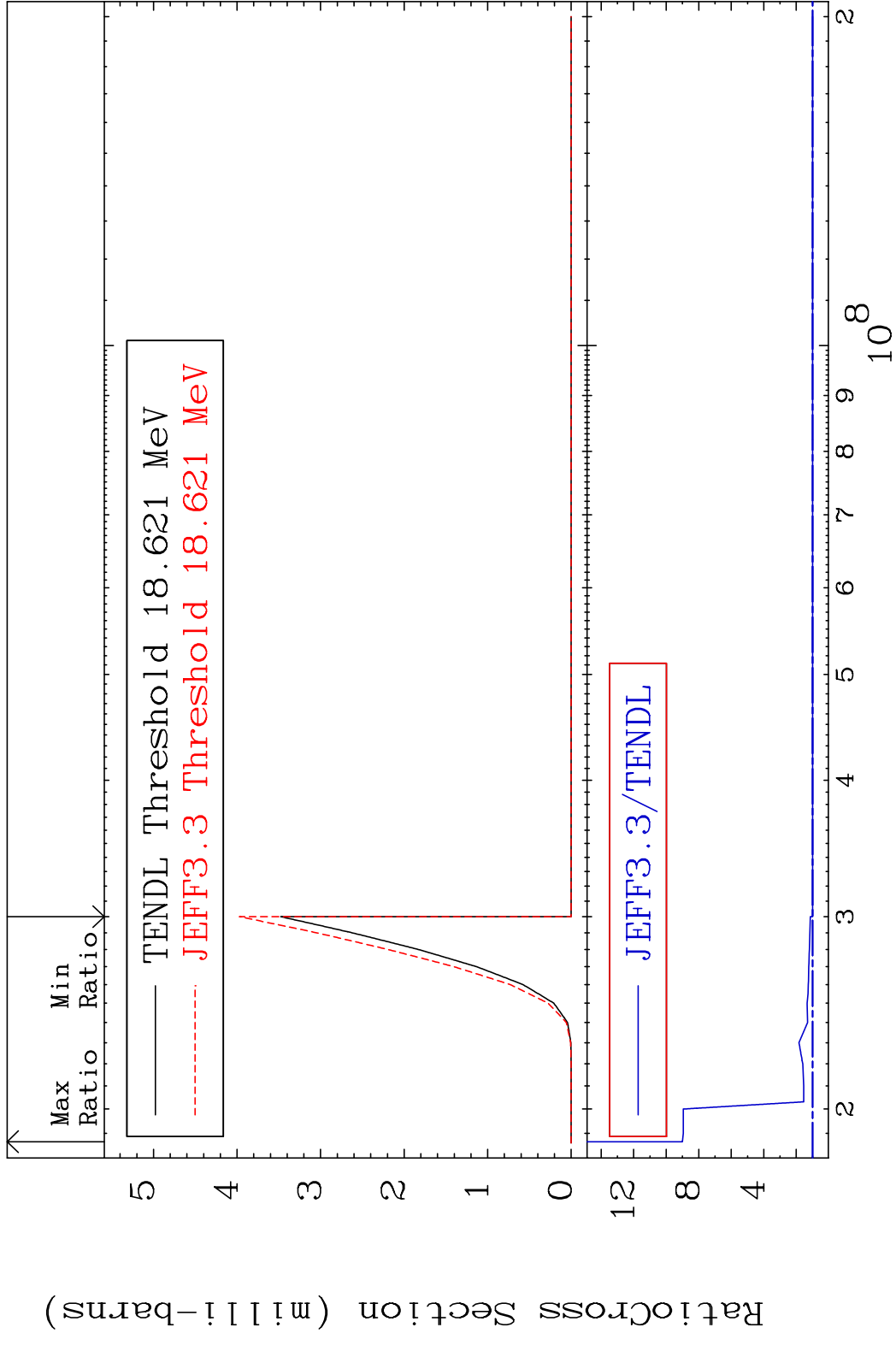


10

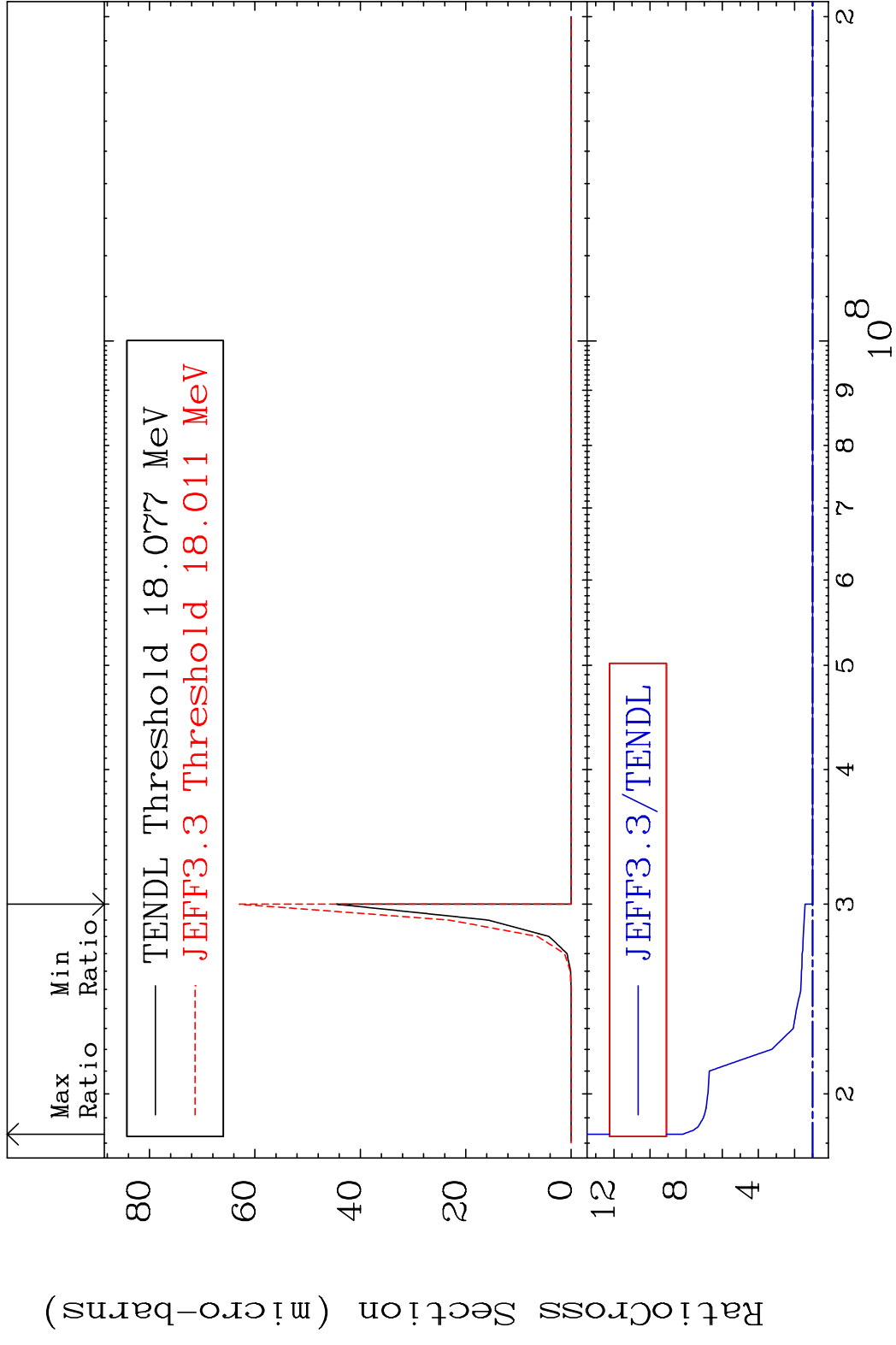
Incident Energy (eV)

38-Sr-89

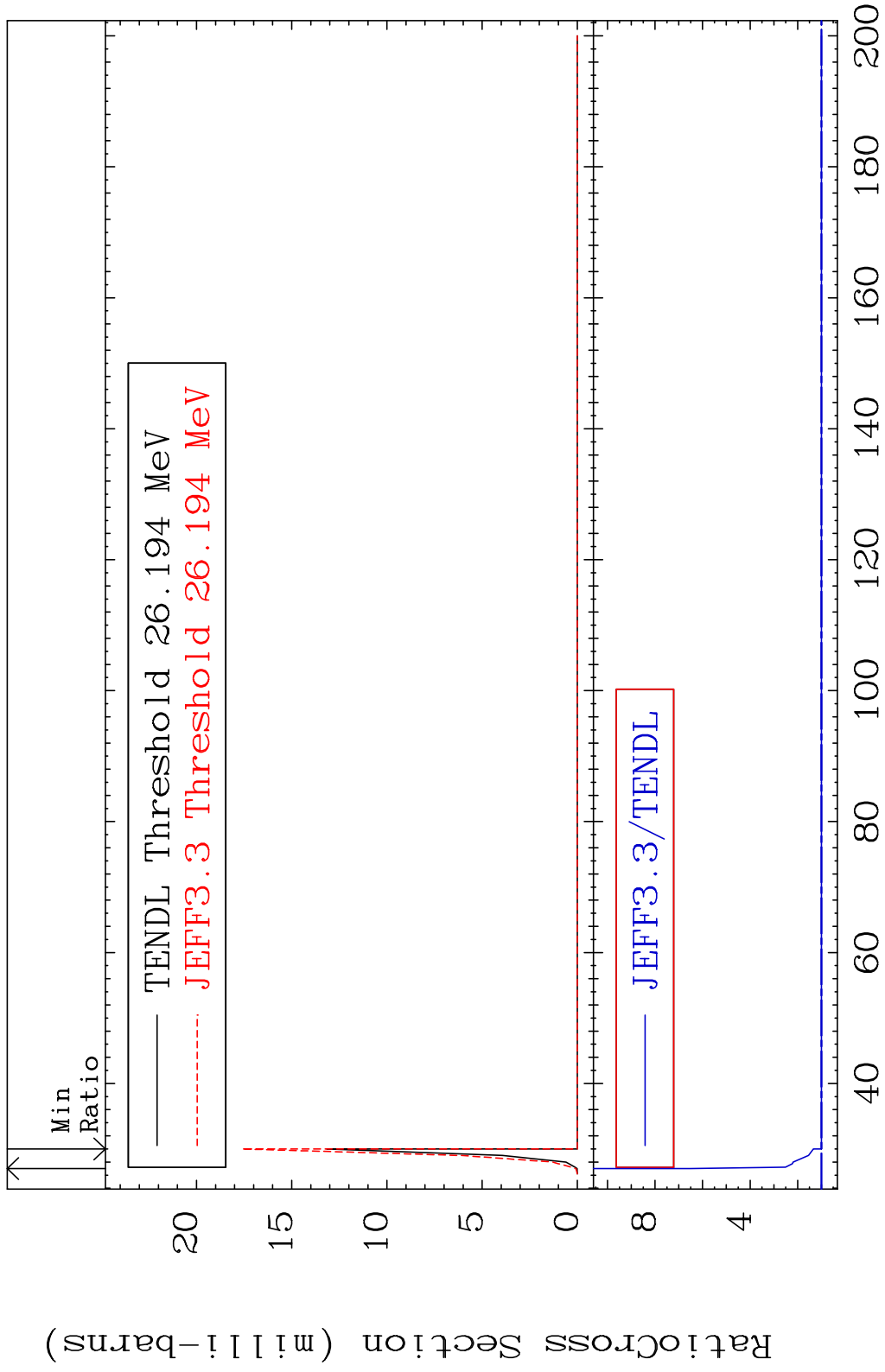
MAT 3840 (n, n') t 38-Sr-89
 Cross Section 0.000 To 800.6 %



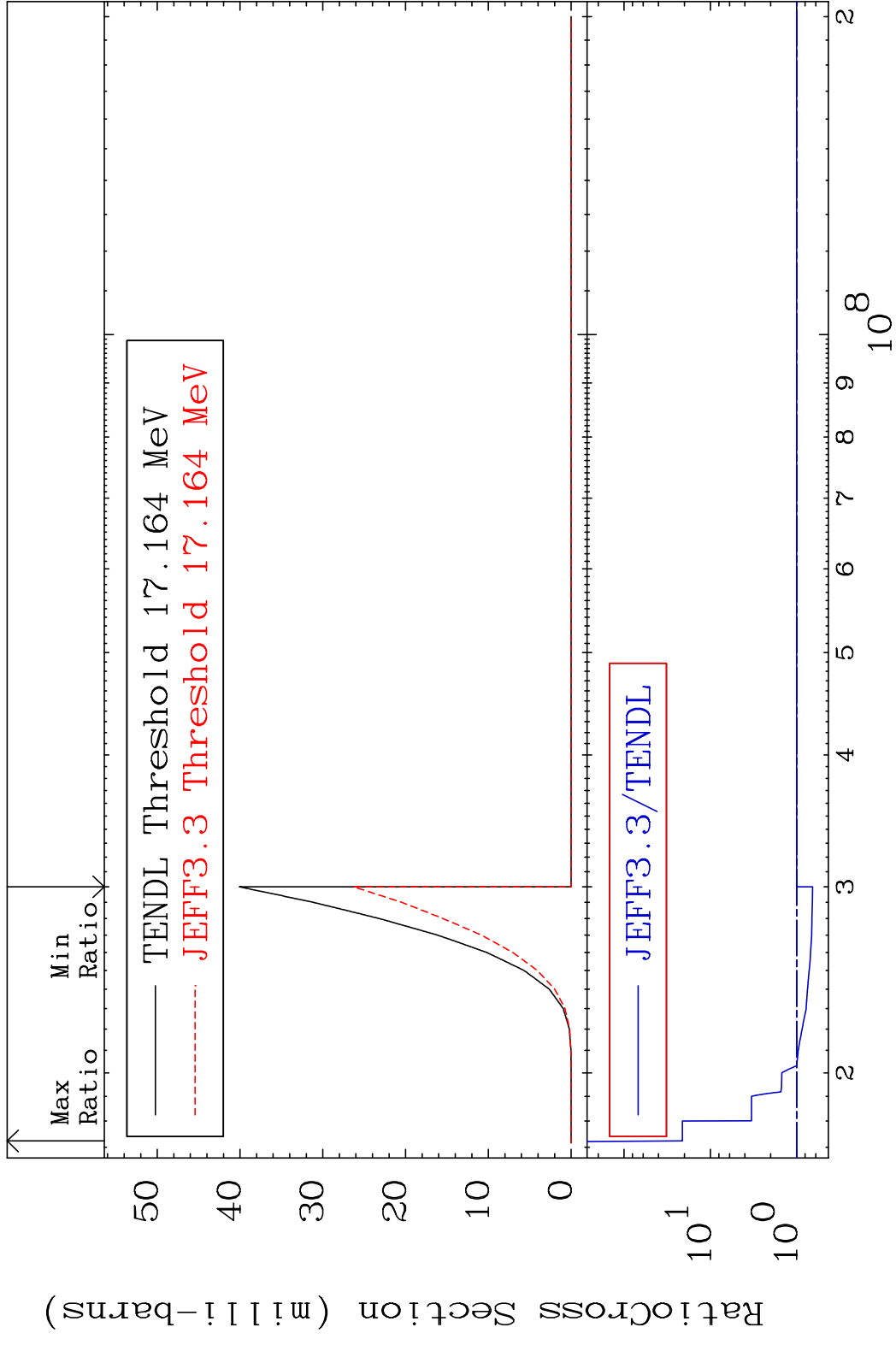
MAT 3840 (n,n') He-3 38-Sr-89
 Cross Section 0.000 To 720.9 %



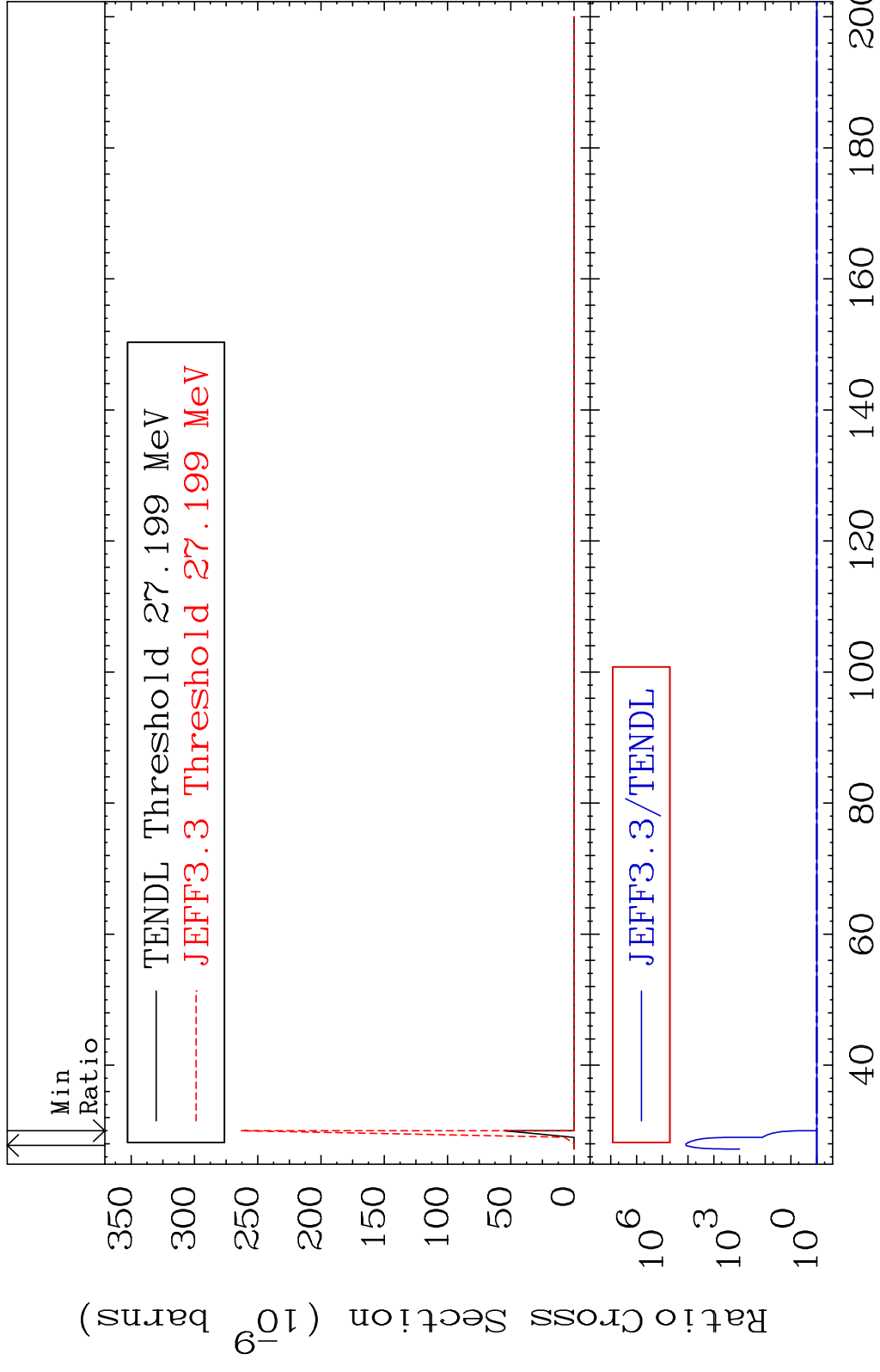
MAT 3840 (n,4n) 38-Sr-89
 Cross Section 0.000 To 553.9 %



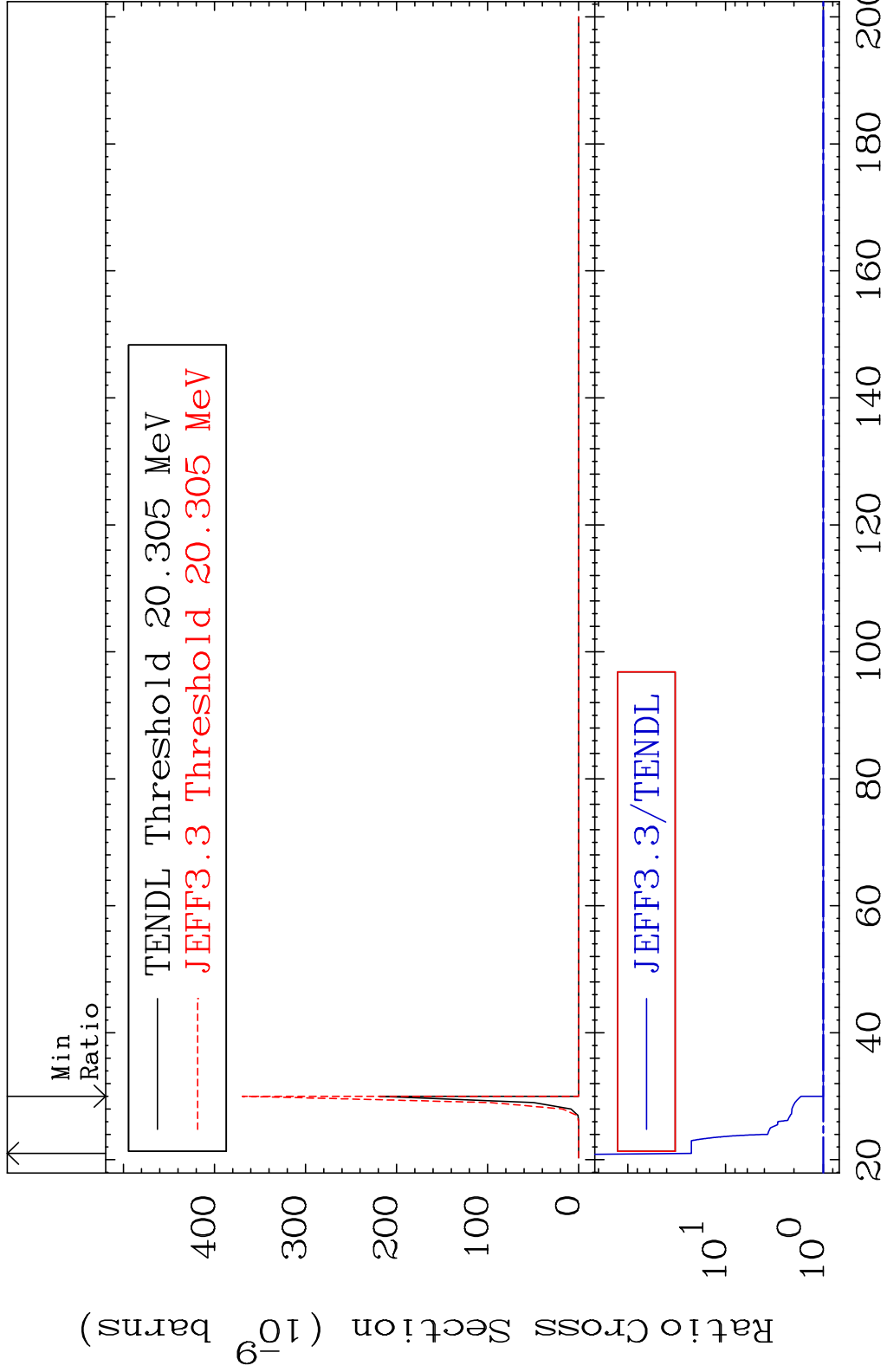
MAT 3840 (n,2n) p 38-Sr-89
 Cross Section -34.42 To 2015. %



MAT 3840 (n,3n) p 38-Sr-89
 Cross Section 0.000 To 9999. %



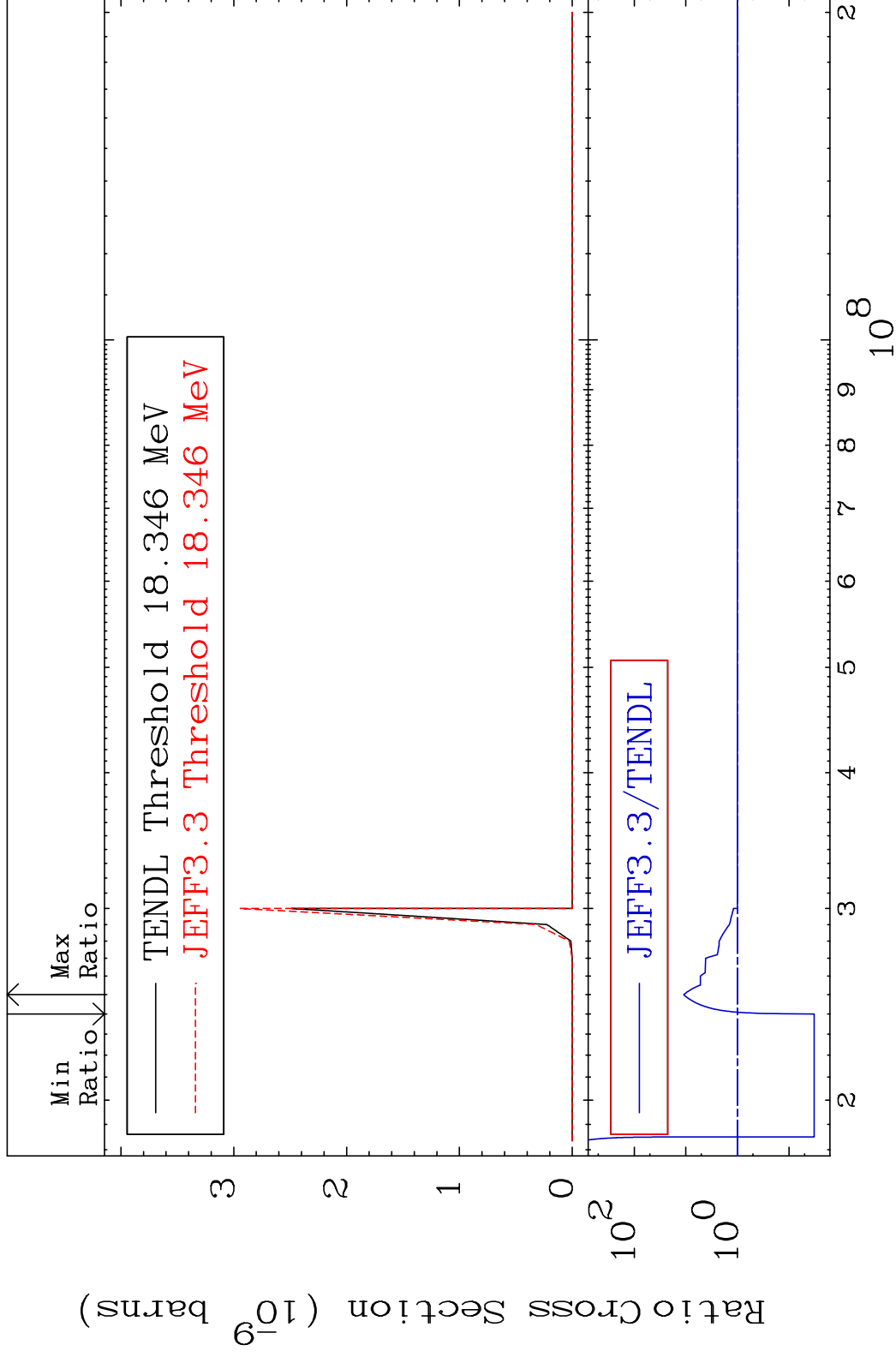
MAT 3840 (n,2n) p 38-Sr-89
 Cross Section 0.000 To 2141. %



MAT 3840

(n, n') p α 38-Sr-89

Cross Section -96.75 To 1001. %

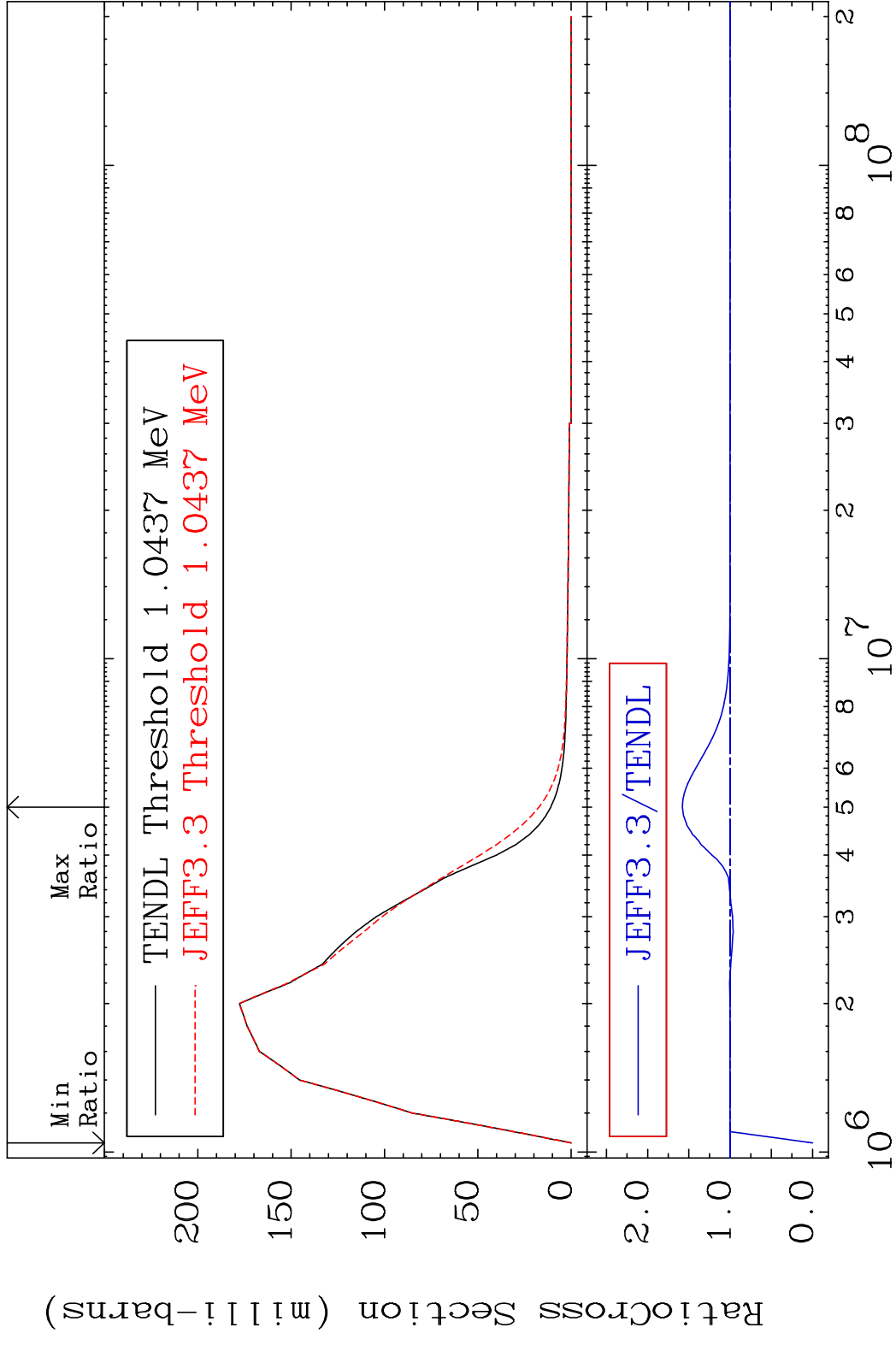


17

Incident Energy (eV)

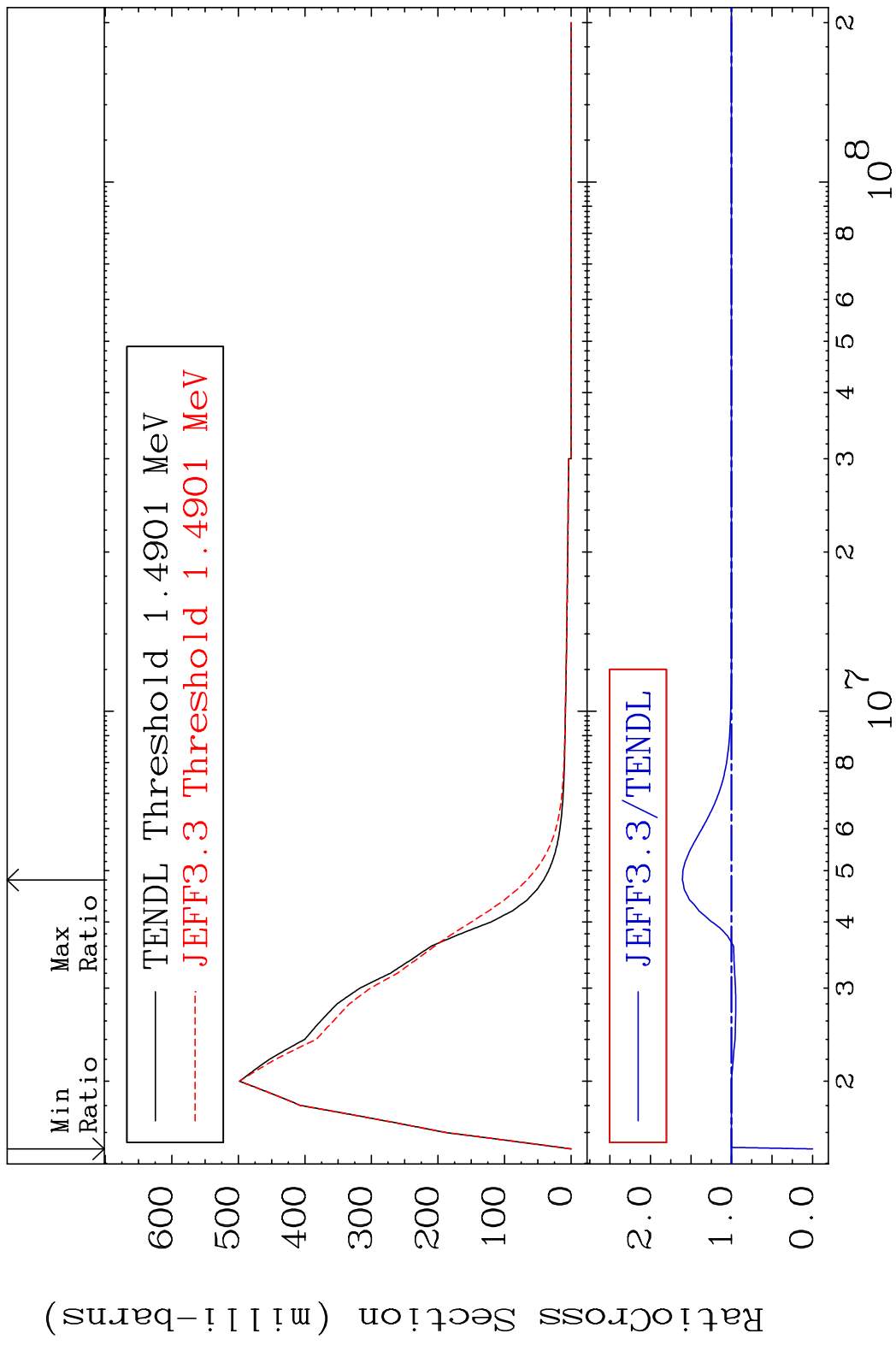
38-Sr-89

MAT 3840 MT= 51 (n, n') Level 38-Sr-89
 Cross Section -100.0 To 57.90 %

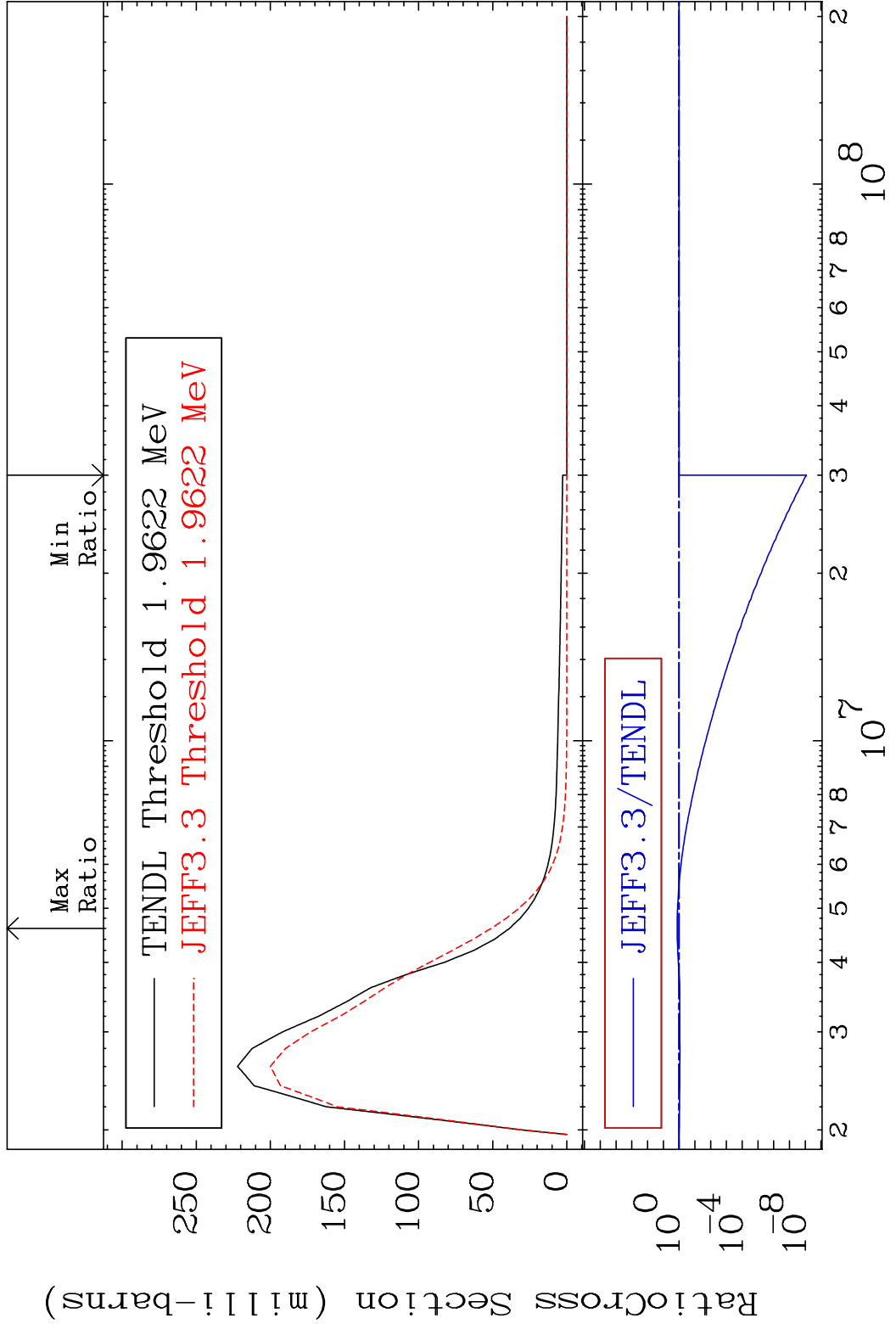


18 Incident Energy (eV) 38-Sr-89

MAT 3840 MT= 52 (n, n') Level 38-Sr-89
 Cross Section -100.0 To 60.68 %

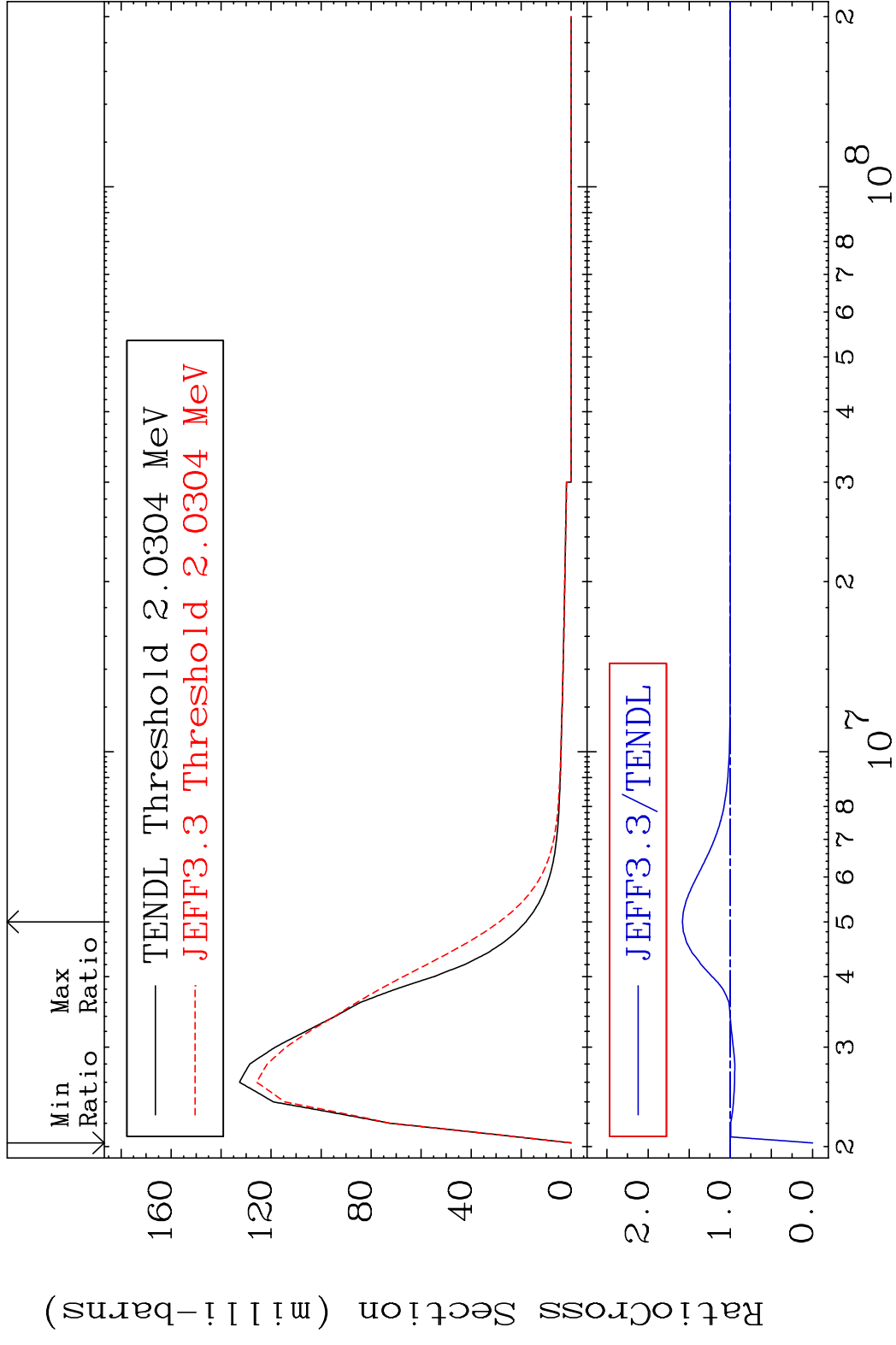


MAT 3840 MT= 53 (n, n') Level 38-Sr-89
 Cross Section -100.0 To 31.91 %

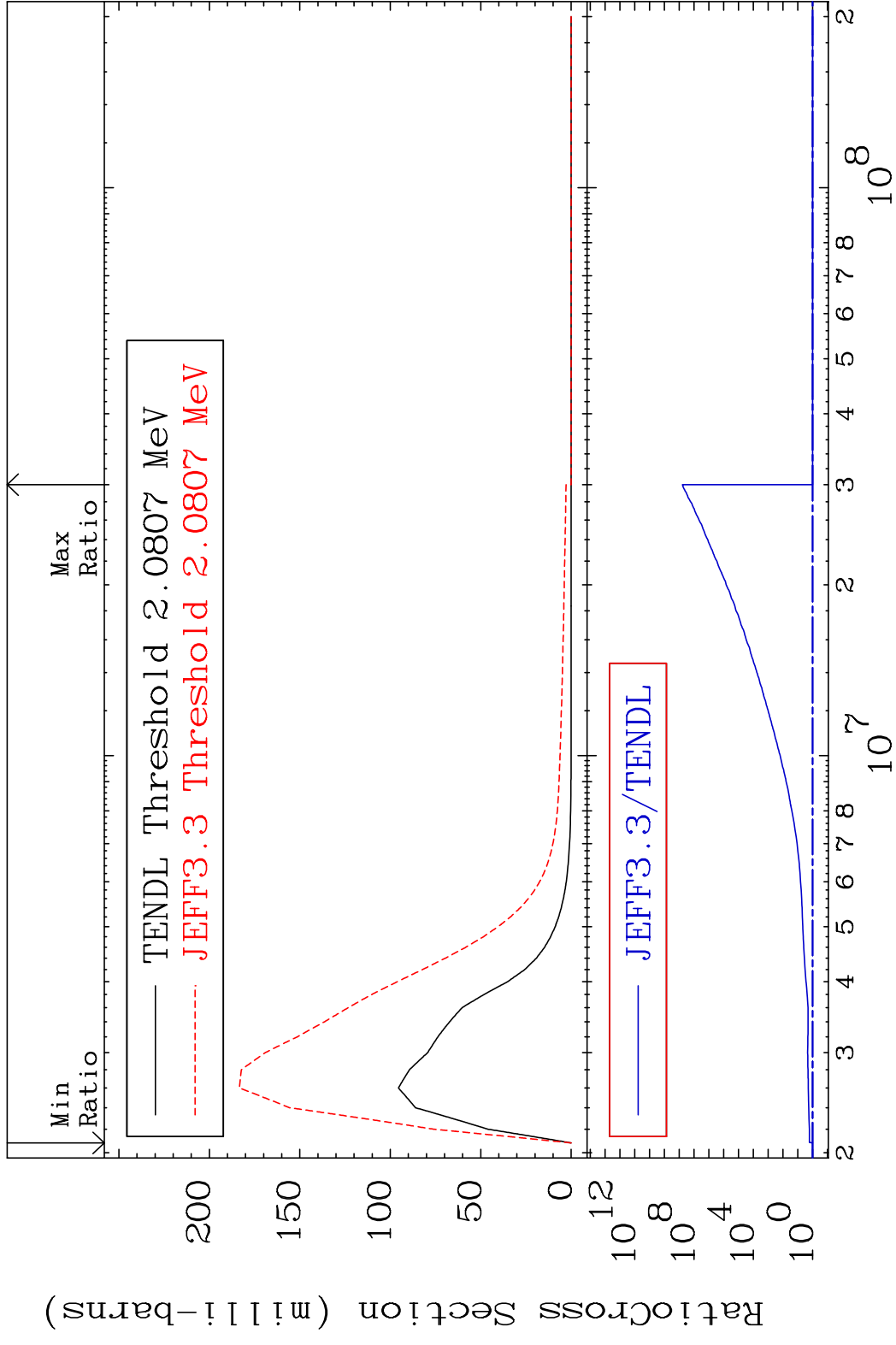


20 Incident Energy (eV) 38-Sr-89

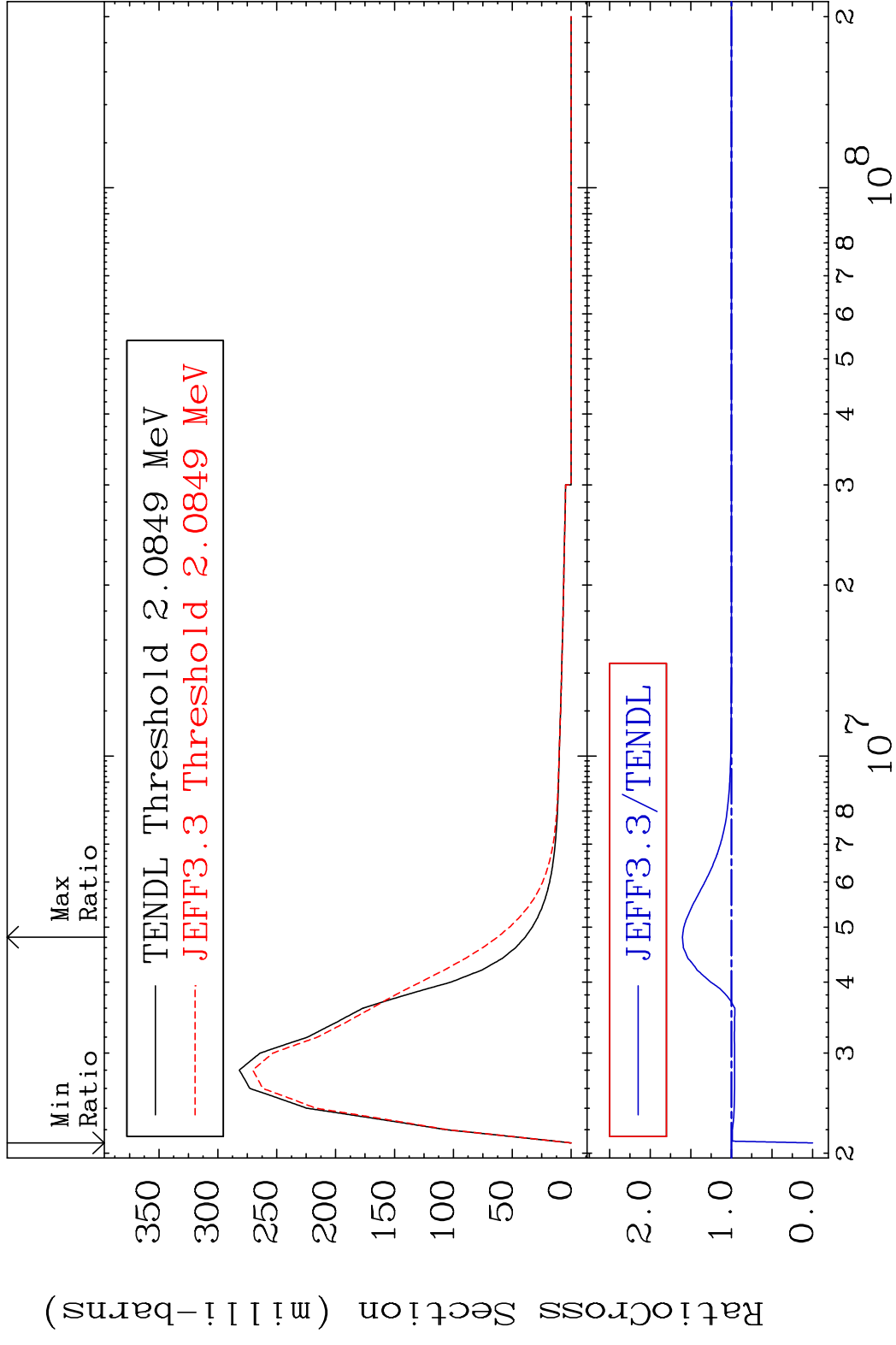
MAT 3840 MT= 54 (n, n') Level 38-Sr-89
 Cross Section -100.0 To 58.34 %



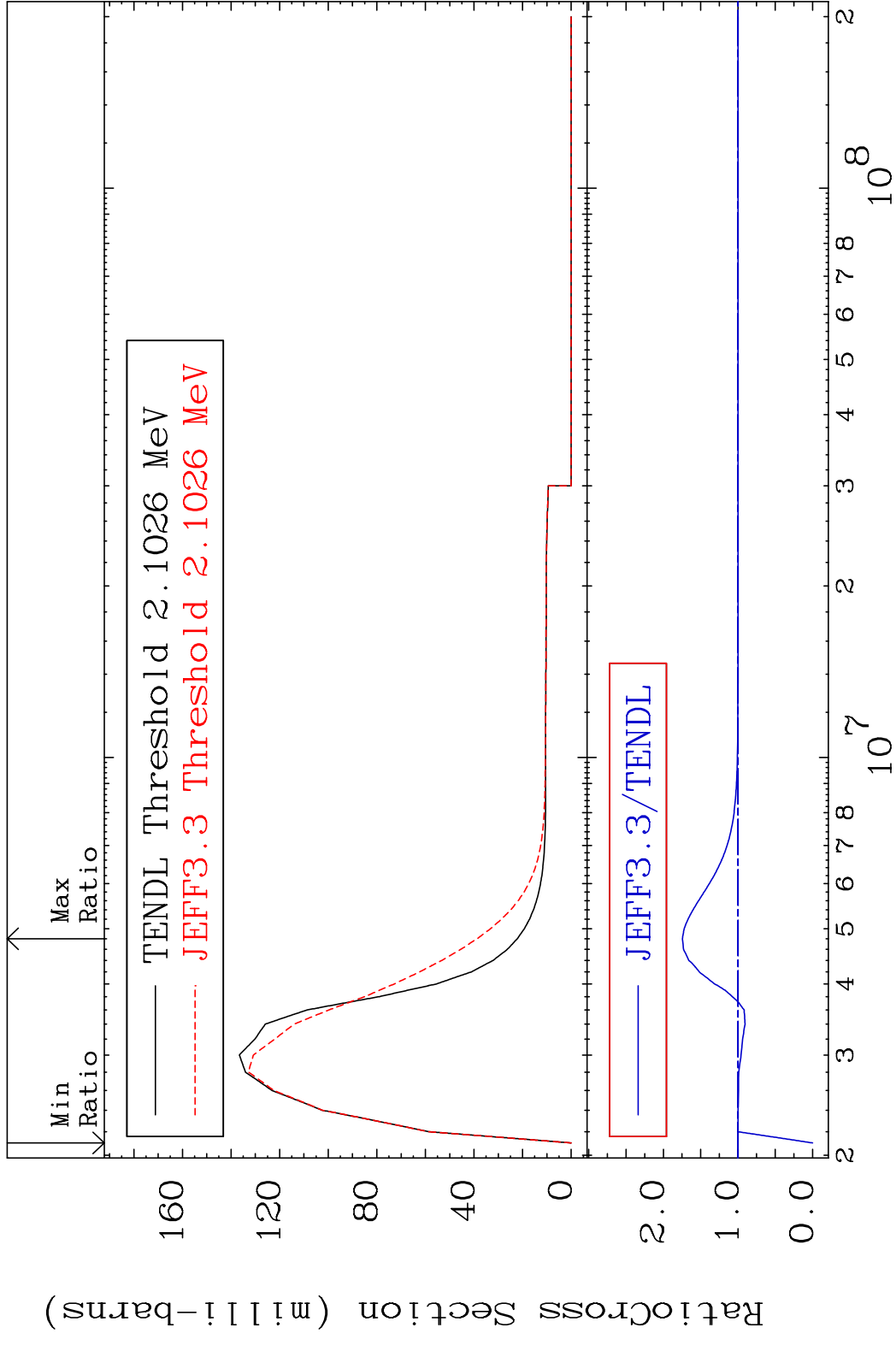
MAT 3840 MT= 55 (n, n') Level 38-Sr-89
 Cross Section 0.000 To 9999. %



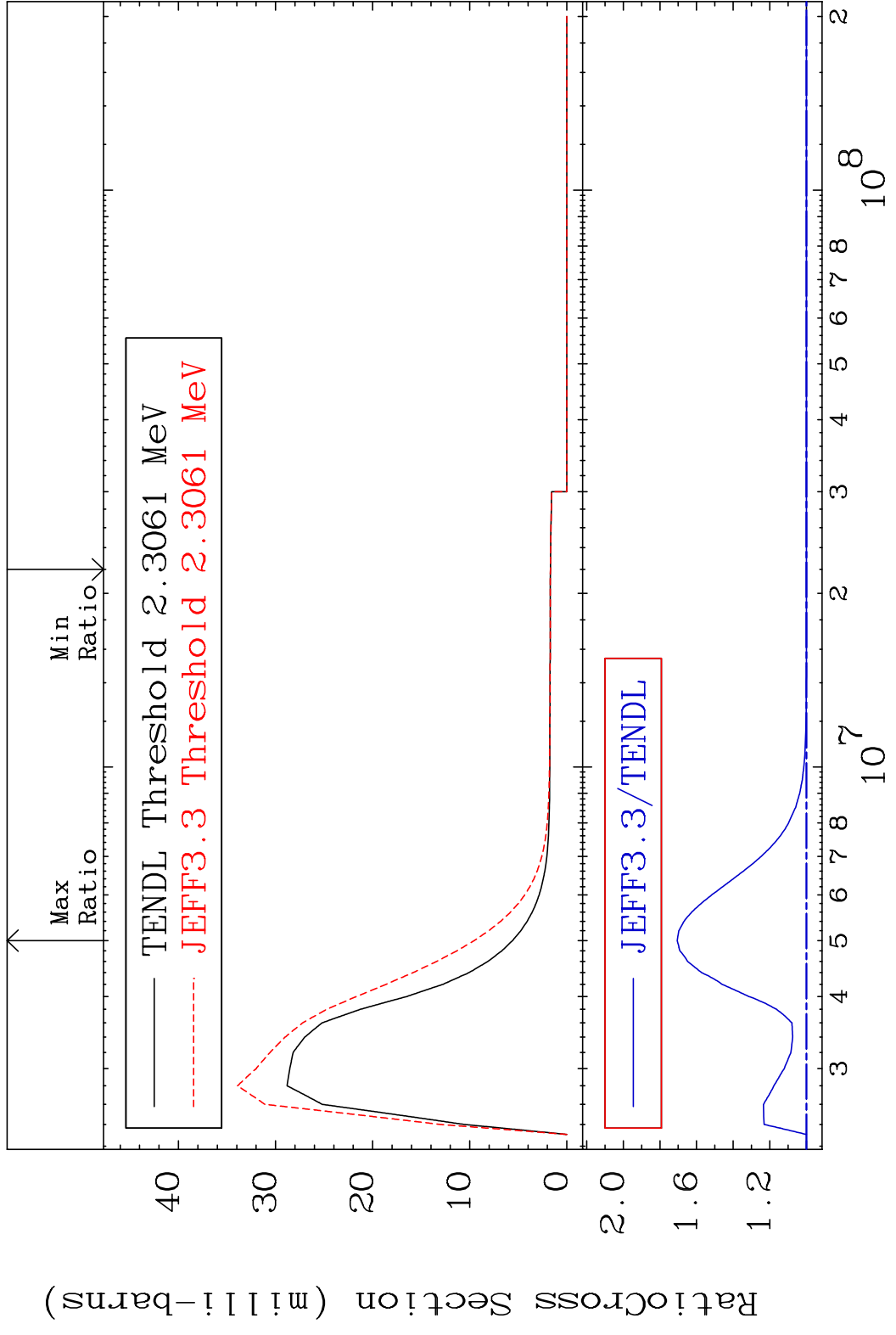
MAT 3840 MT= 56 (n, n') Level 38-Sr-89
 Cross Section -100.0 To 60.33 %



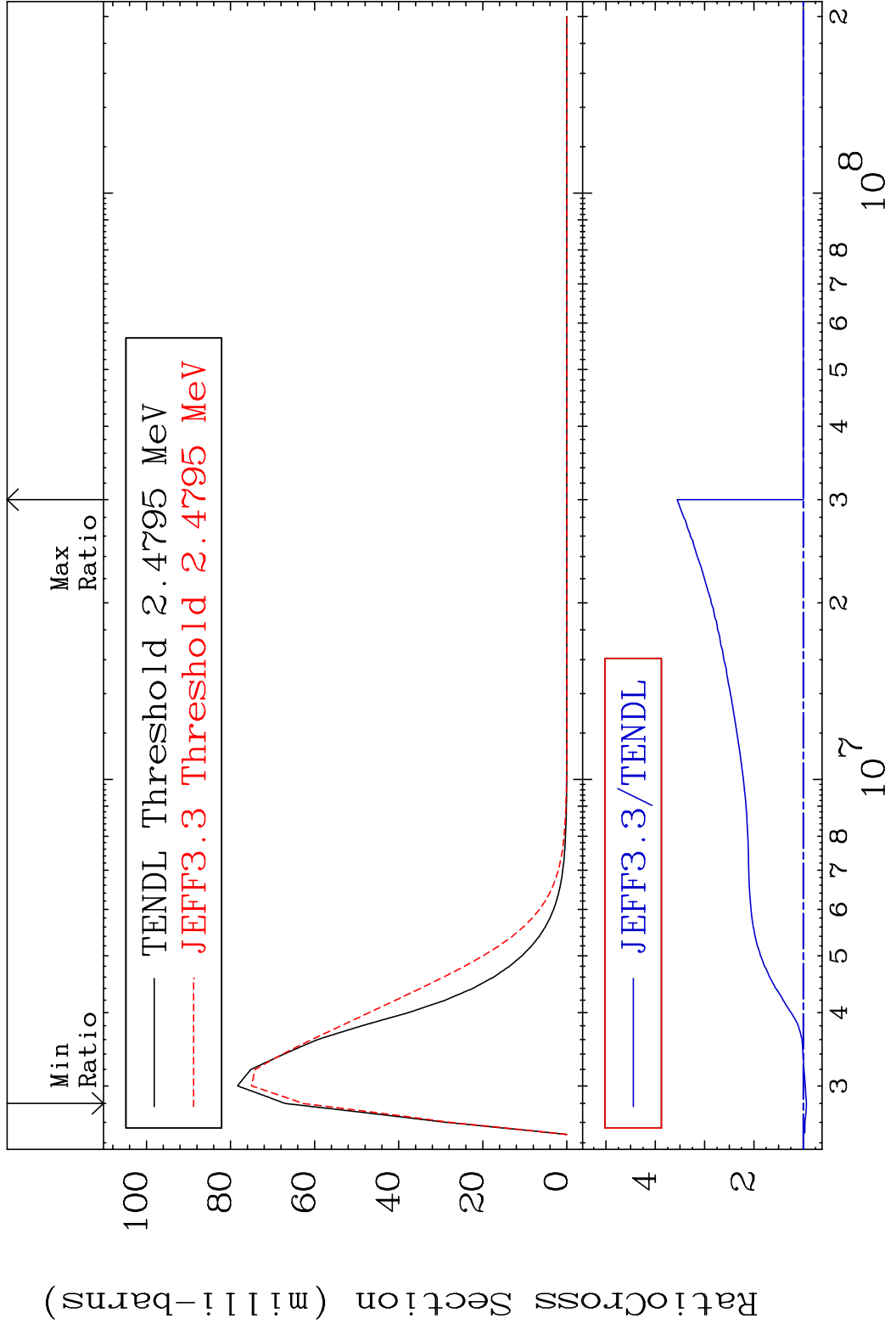
MAT 3840 MT= 57 (n, n') Level 38-Sr-89
 Cross Section -100.0 To 74.53 %



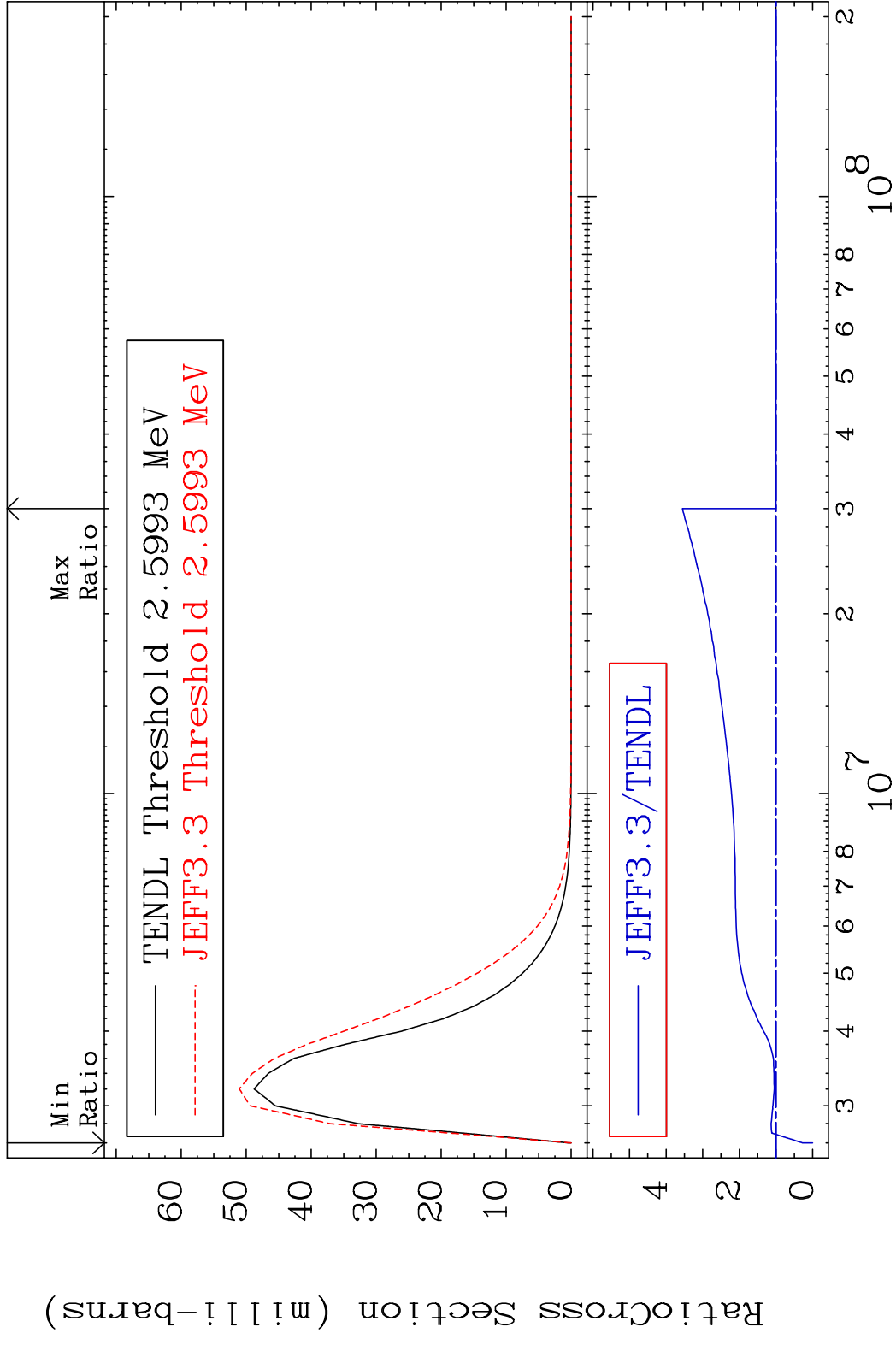
MAT 3840 MT= 58 (n, n') Level 38-Sr-89
 Cross Section 0.000 To 70.57 %



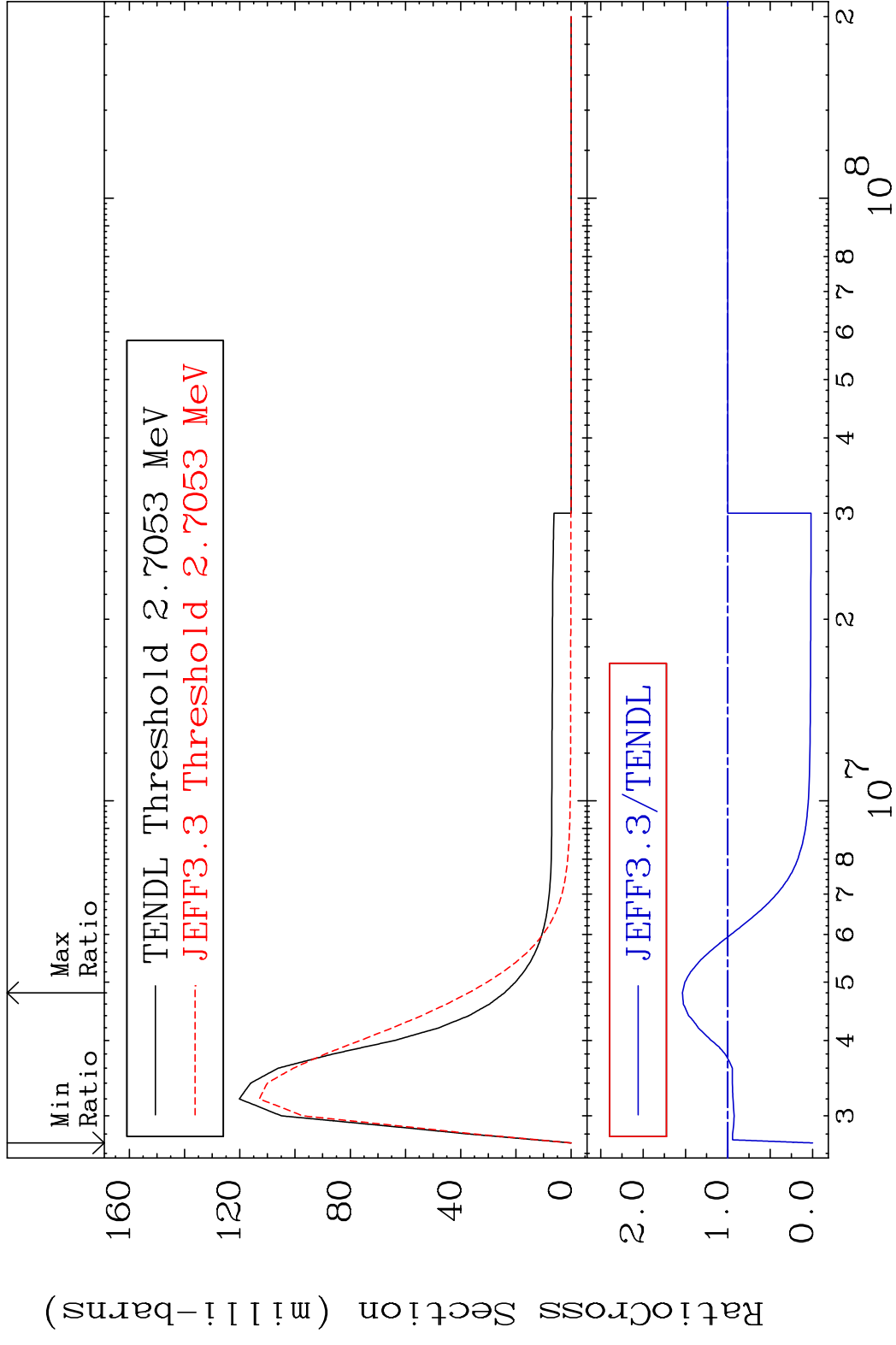
MAT 3840 MT= 59 (n, n') Level 38-Sr-89
 Cross Section -6.442 To 255.7 %



MAT 3840 MT= 60 (n, n') Level 38-Sr-89
 Cross Section -100.0 To 255.7 %



MAT 3840 MT= 61 (n, n') Level 38-Sr-89
 Cross Section -100.0 To 53.69 %

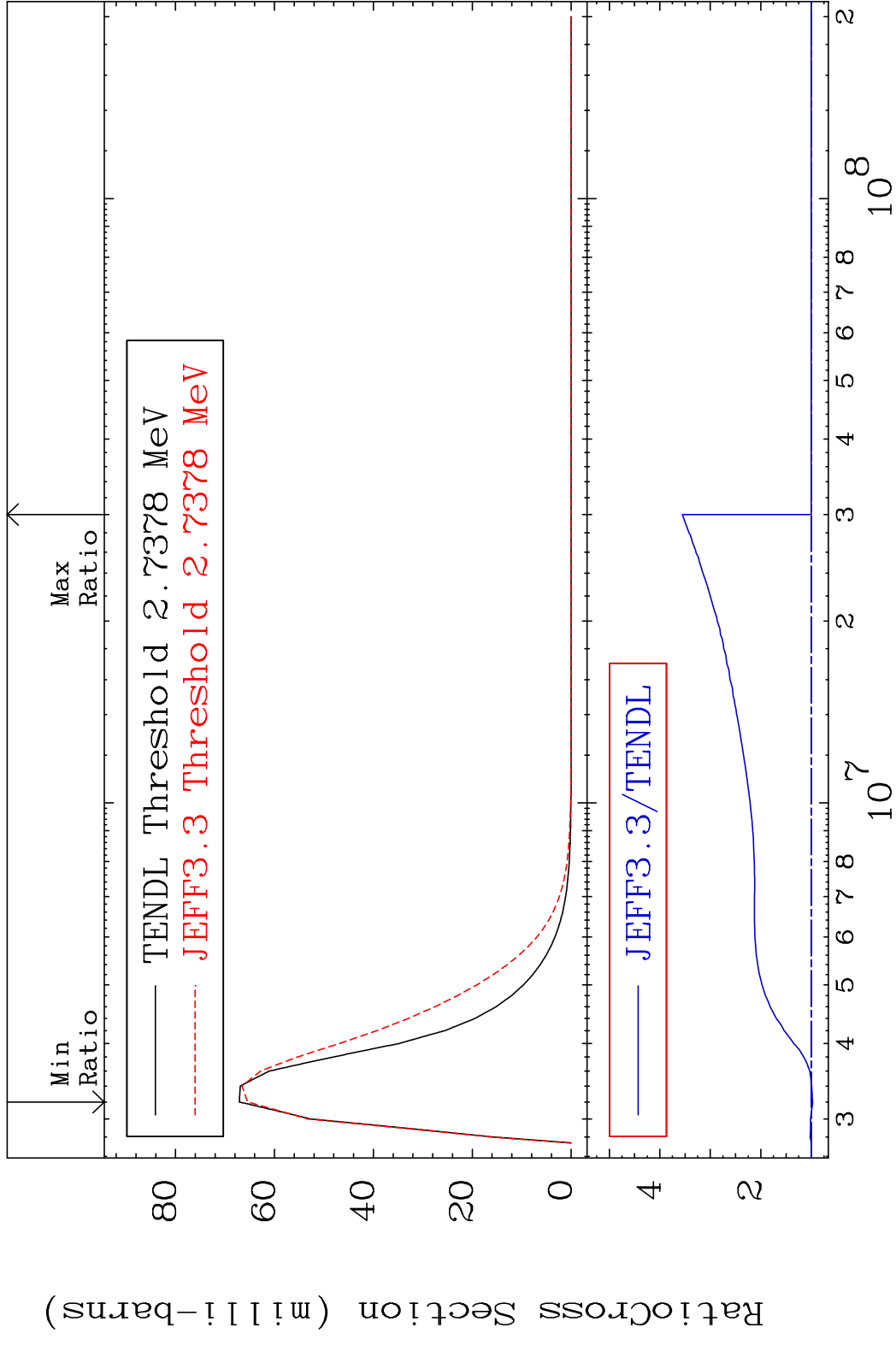


MAT 3840

MT= 62 (n, n') Level

38-Sr-89

Cross Section -2.483 To 255.4 %

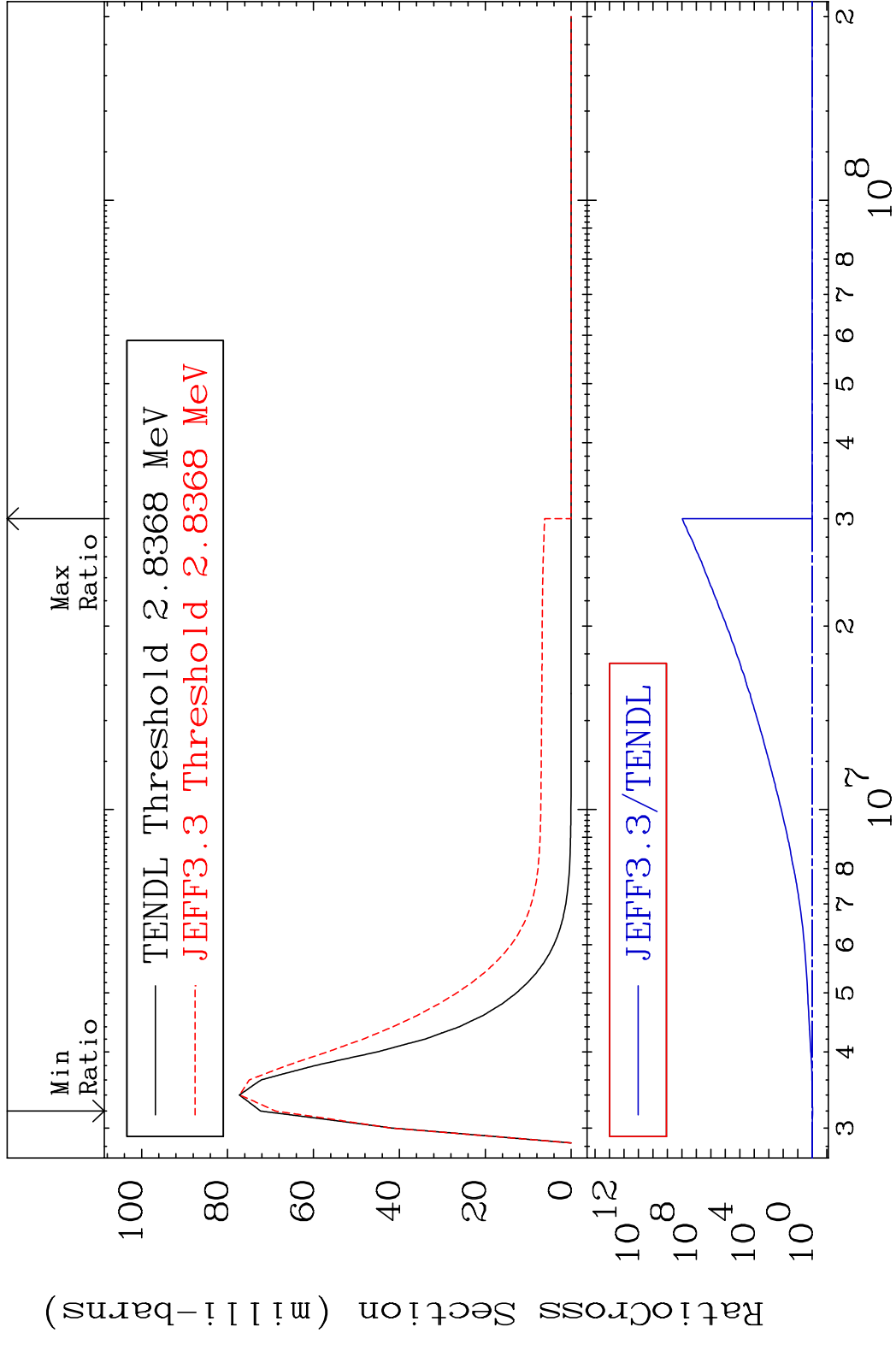


29

Incident Energy (eV)

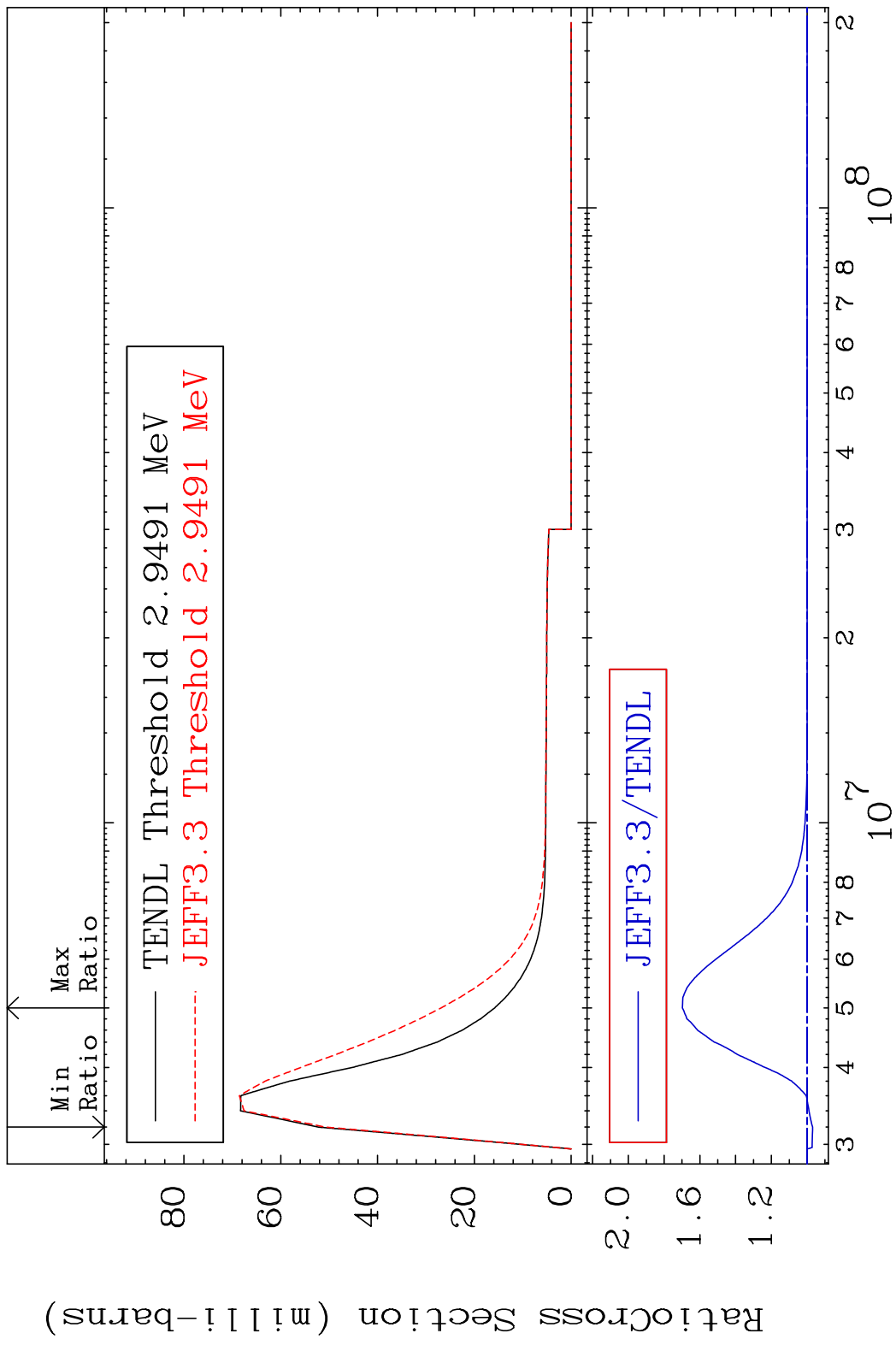
38-Sr-89

MAT 3840 MT= 63 (n, n') Level 38-Sr-89
 Cross Section -4.807 To 9999. %

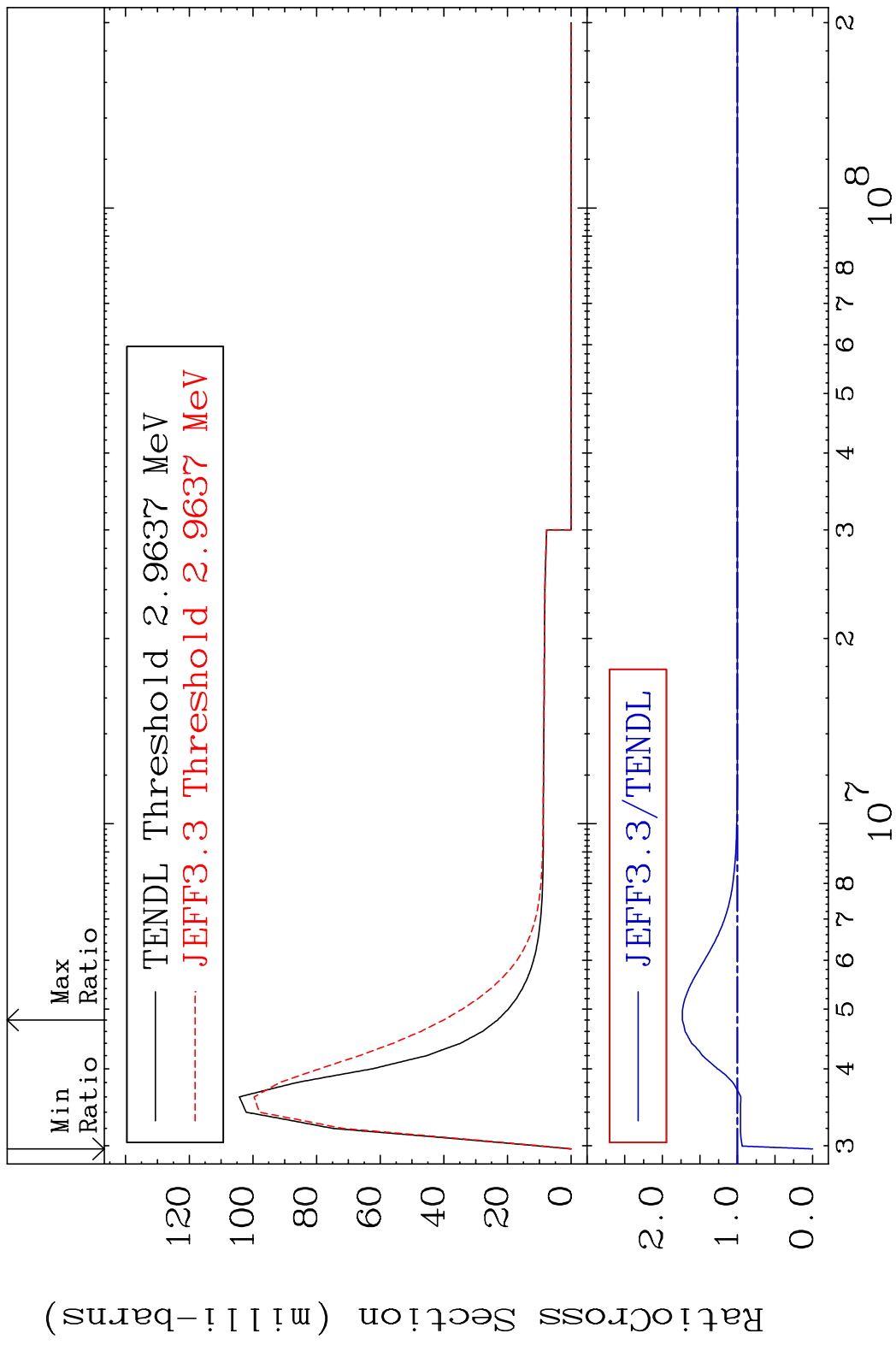


30 Incident Energy (eV) 38-Sr-89

MAT 3840 MT= 64 (n, n') Level 38-Sr-89
 Cross Section -3.036 To 69.81 %



MAT 3840 MT= 65 (n,n') Level 38-Sr-89
 Cross Section -100.0 To 73.30 %

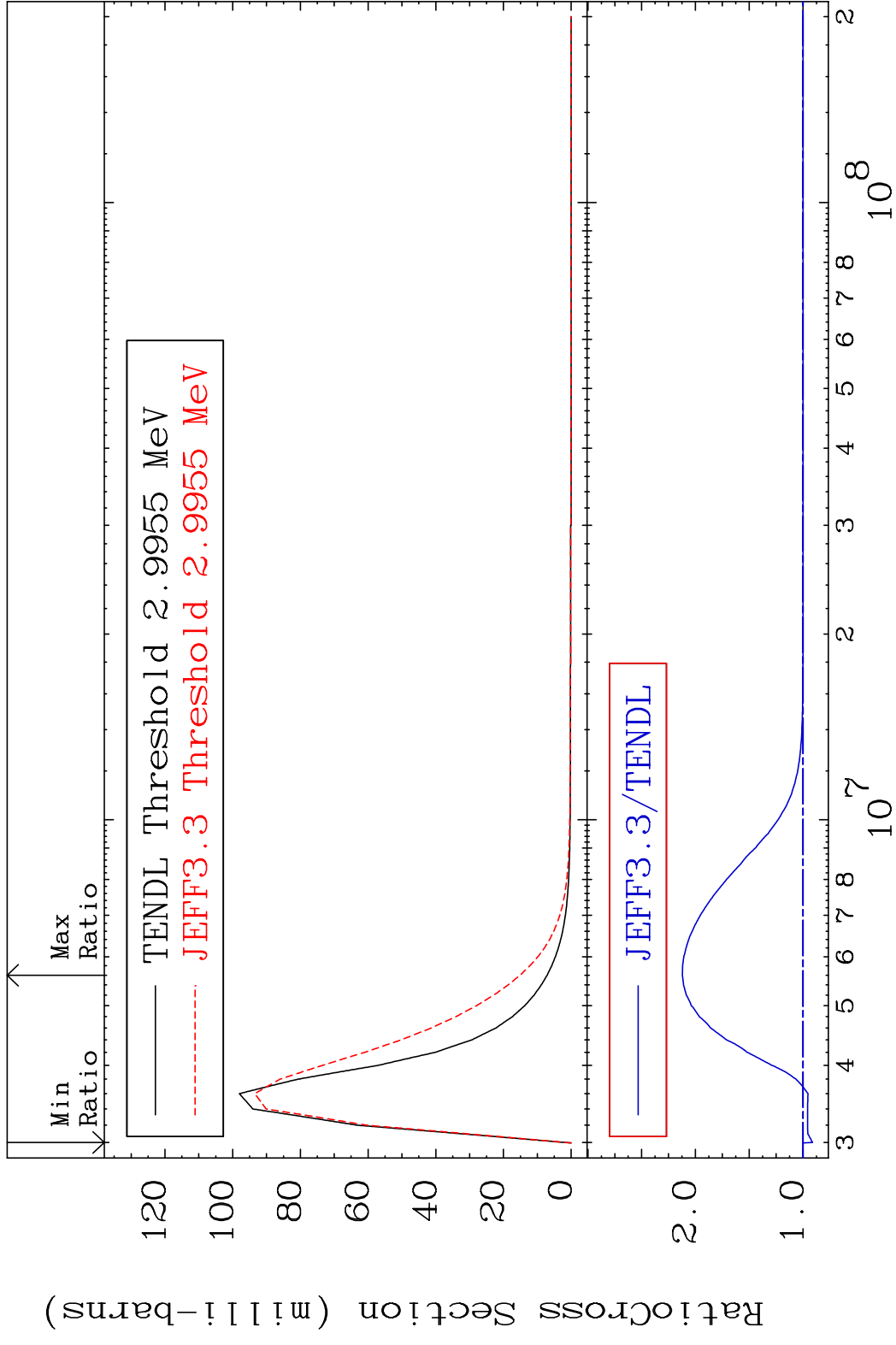


MAT 3840

MT= 66 (n, n') Level

38-Sr-89

Cross Section -8.908 To 112.2 %

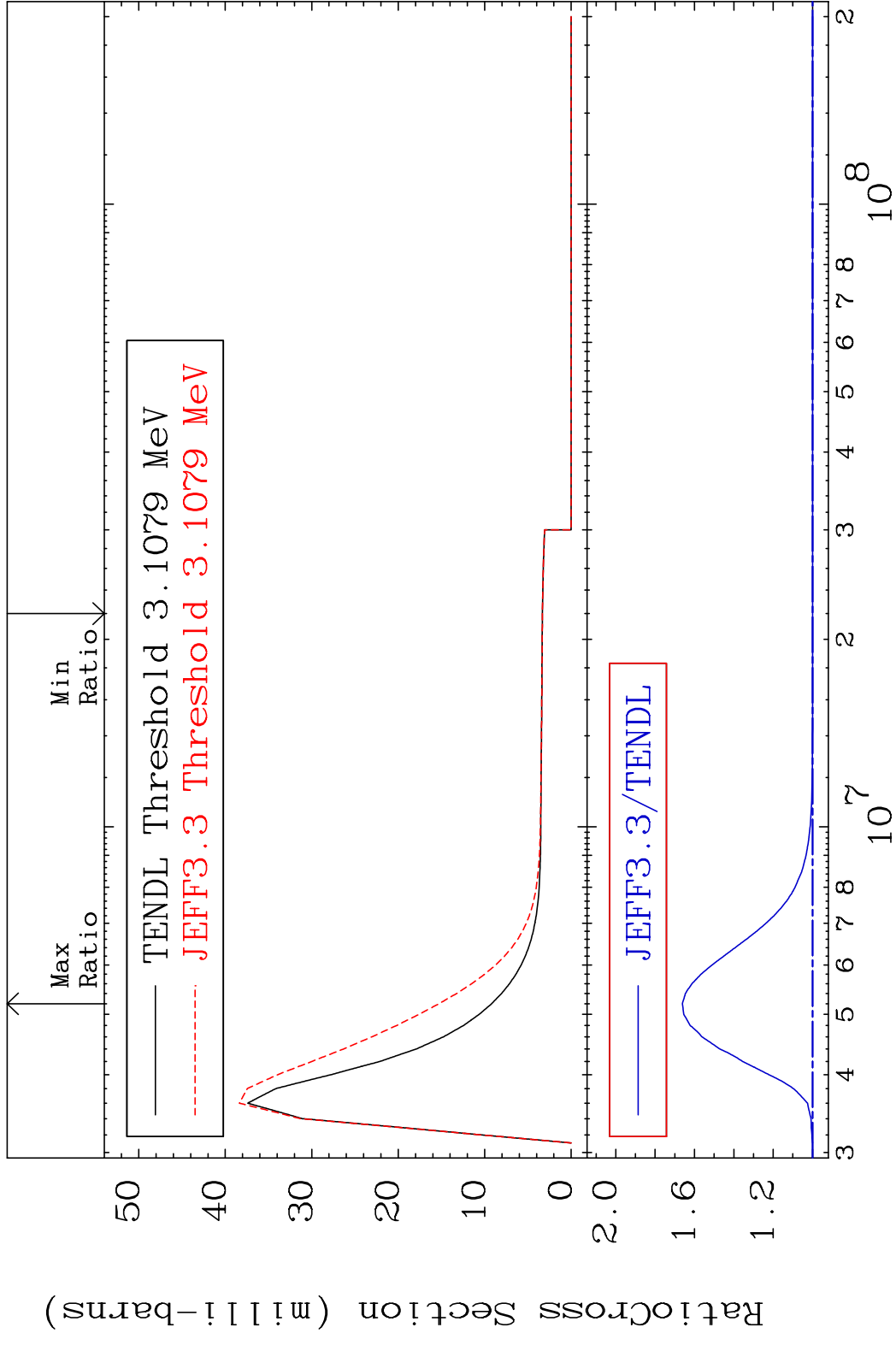


33

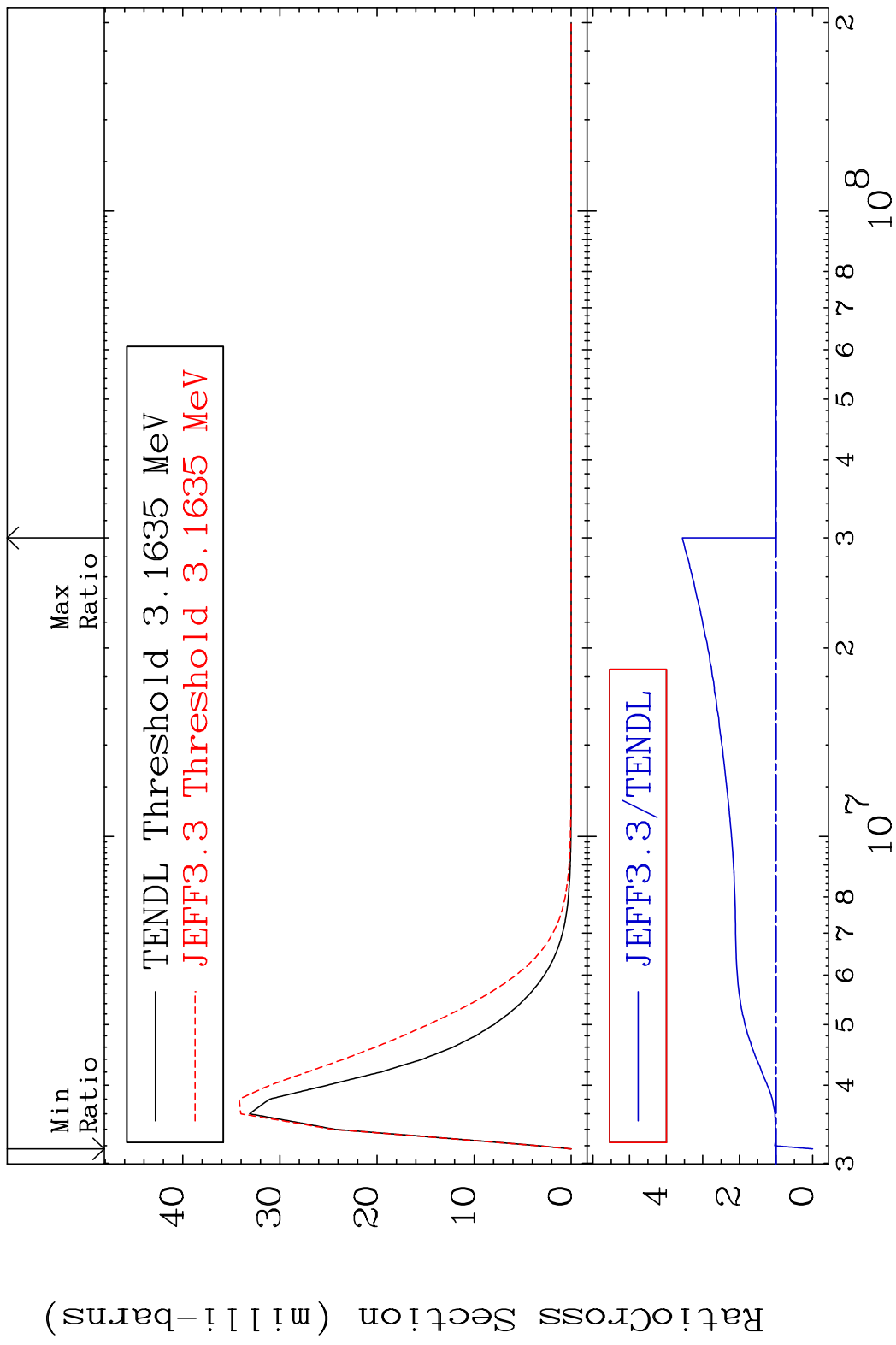
Incident Energy (eV)

38-Sr-89

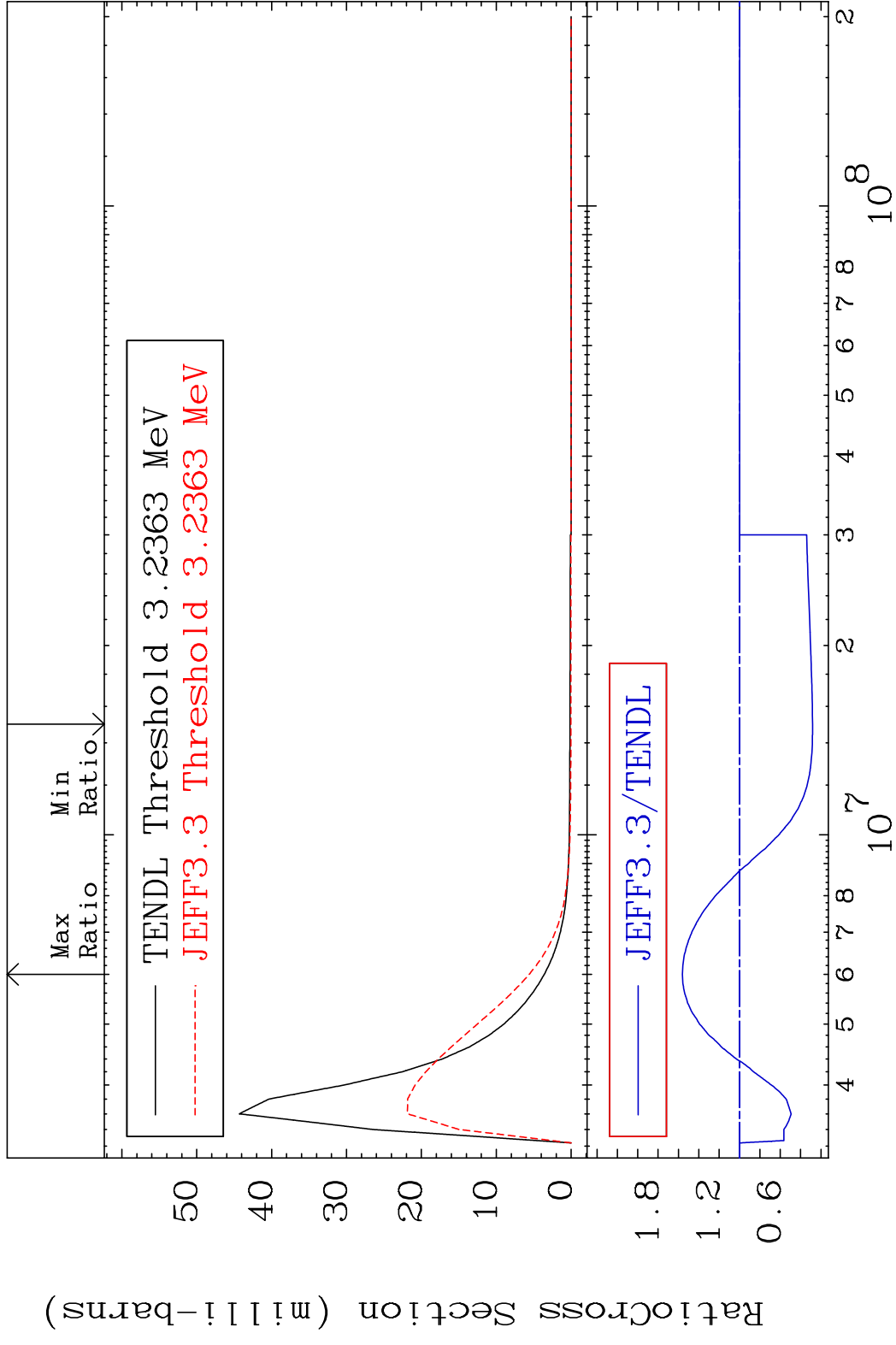
MAT 3840 MT= 67 (n, n') Level 38-Sr-89
 Cross Section 0.000 To 66.16 %



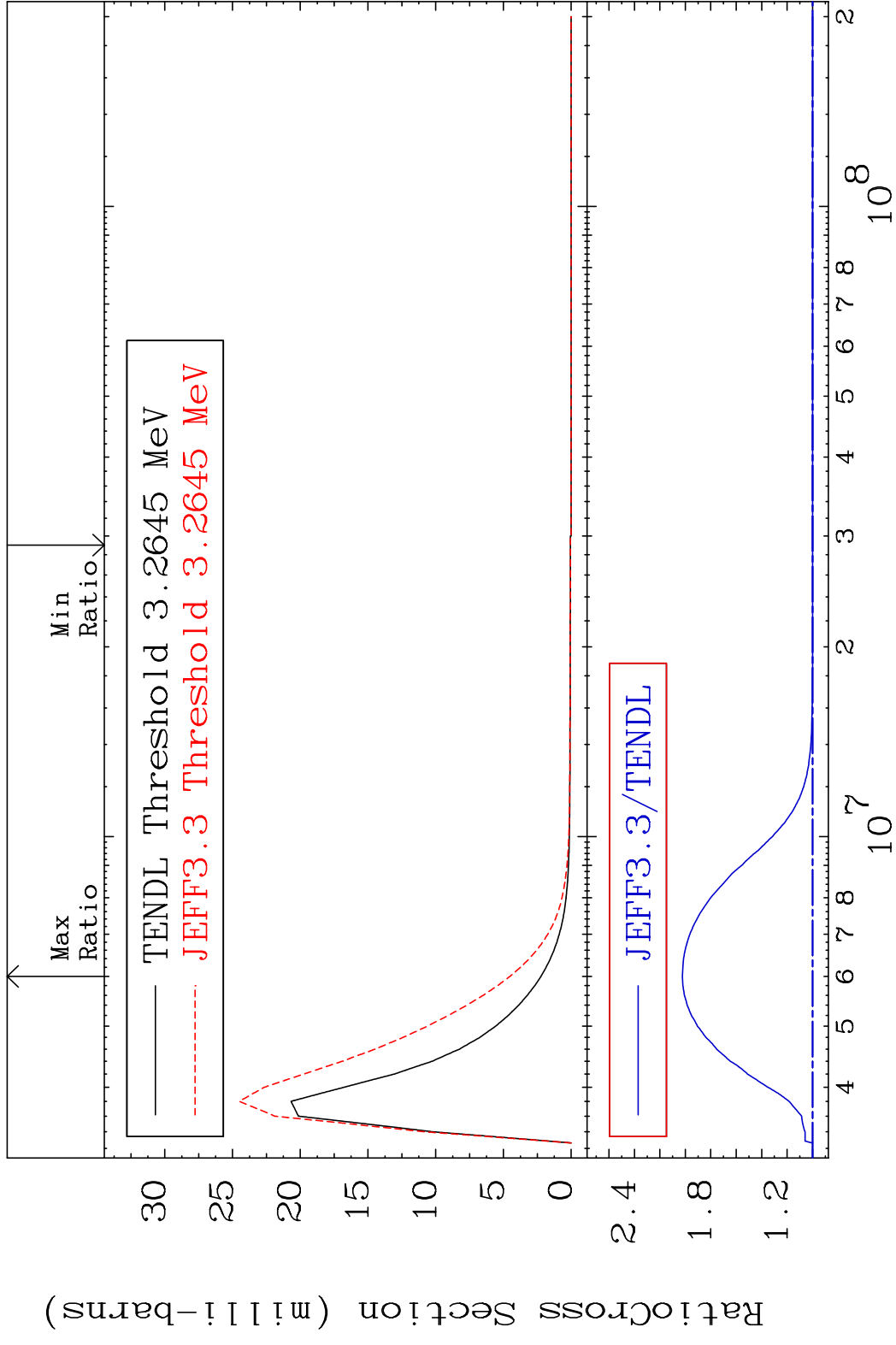
MAT 3840 MT= 68 (n, n') Level 38-Sr-89
 Cross Section -100.0 To 255.7 %



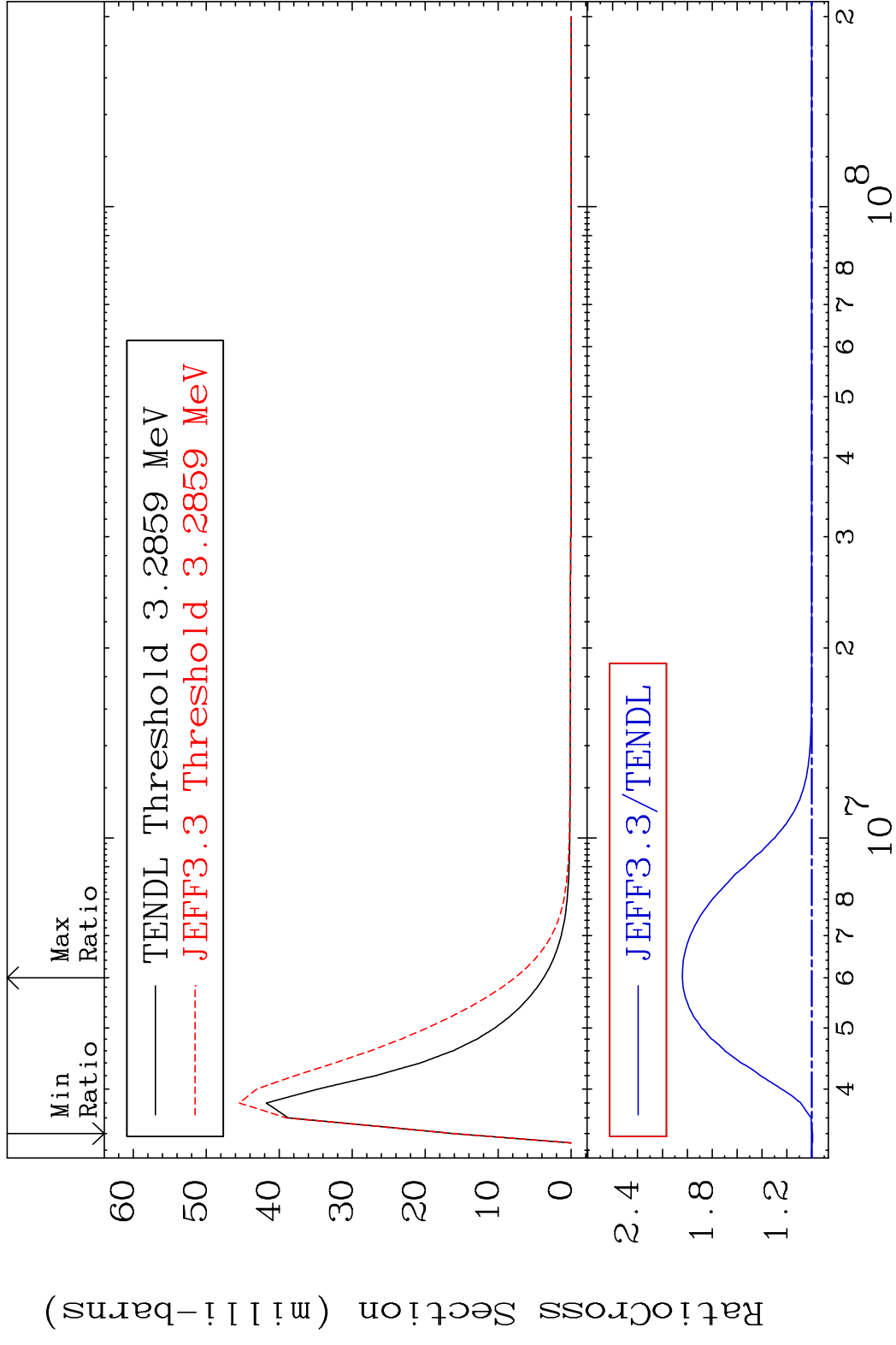
MAT 3840 MT= 69 (n,n') Level 38-Sr-89
 Cross Section -71.75 To 56.15 %



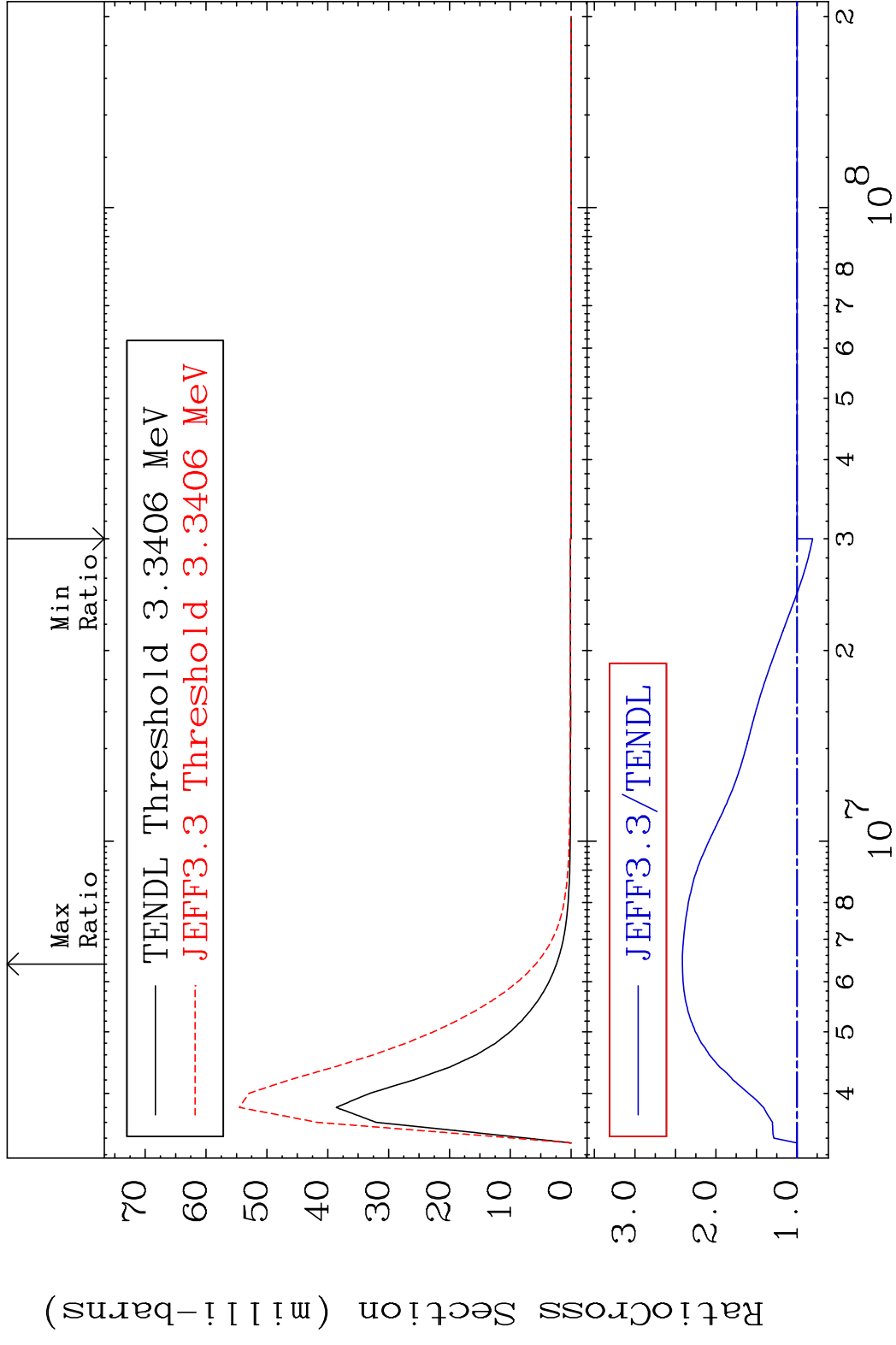
MAT 3840 MT= 70 (n,n') Level 38-Sr-89
 Cross Section 0.000 To 102.3 %



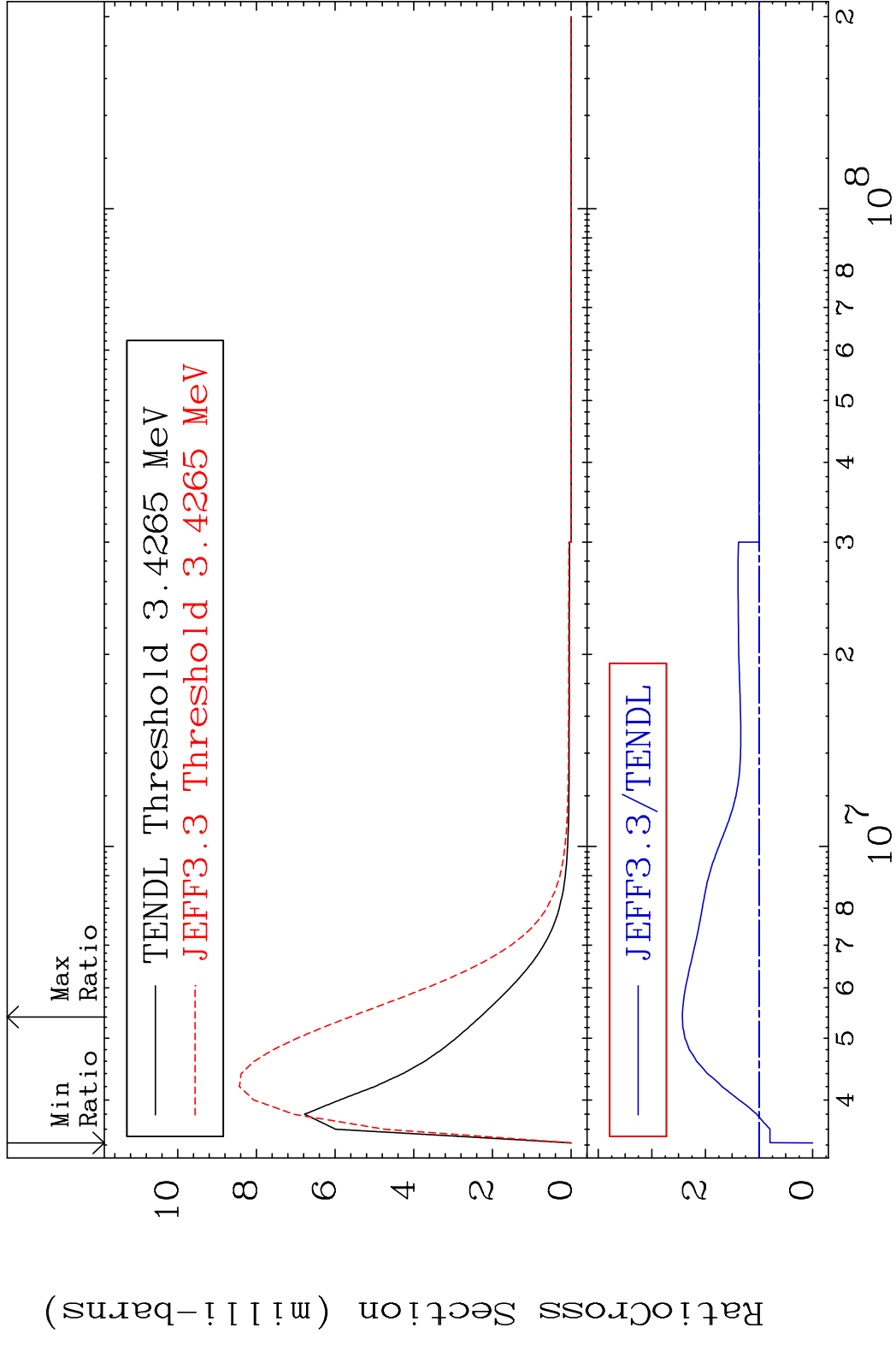
MAT 3840 MT= 71 (n, n') Level 38-Sr-89
 Cross Section -0.606 To 104.0 %



MAT 3840 MT= 72 (n, n') Level 38-Sr-89
 Cross Section -19.18 To 141.5 %

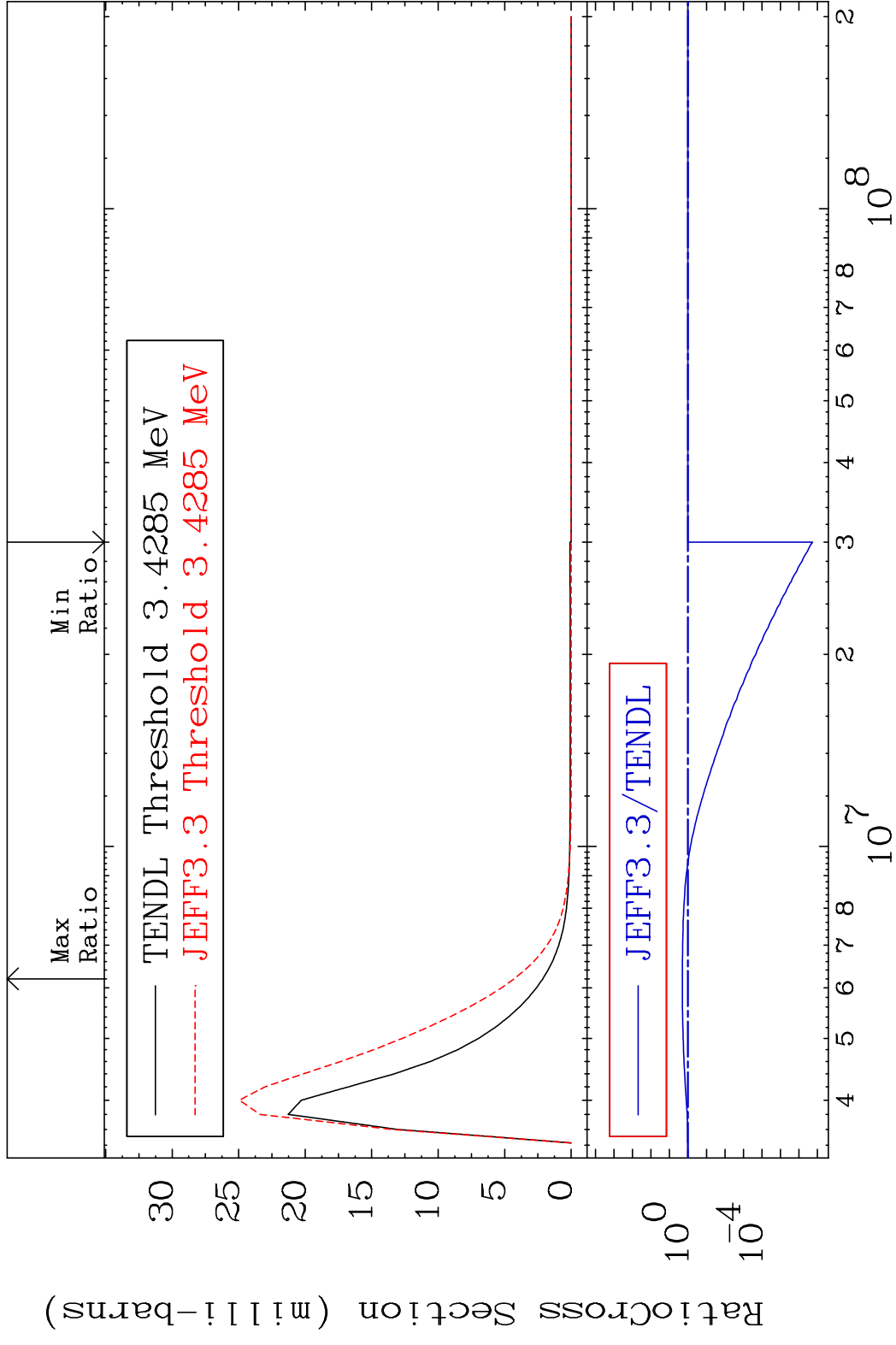


MAT 3840 MT= 73 (n, n') Level 38-Sr-89
 Cross Section -100.0 To 143.0 %

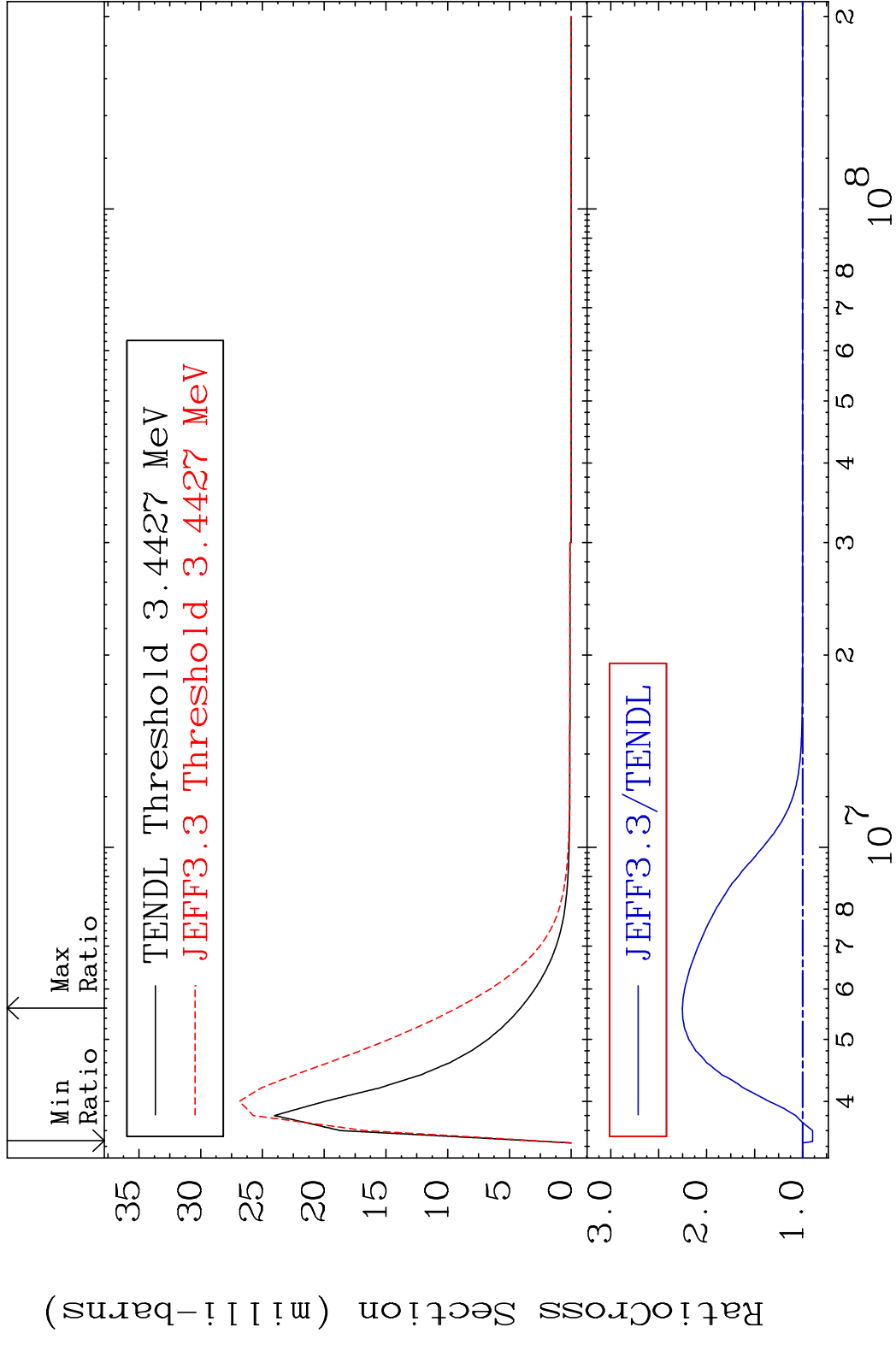


40 Incident Energy (eV) 38-Sr-89

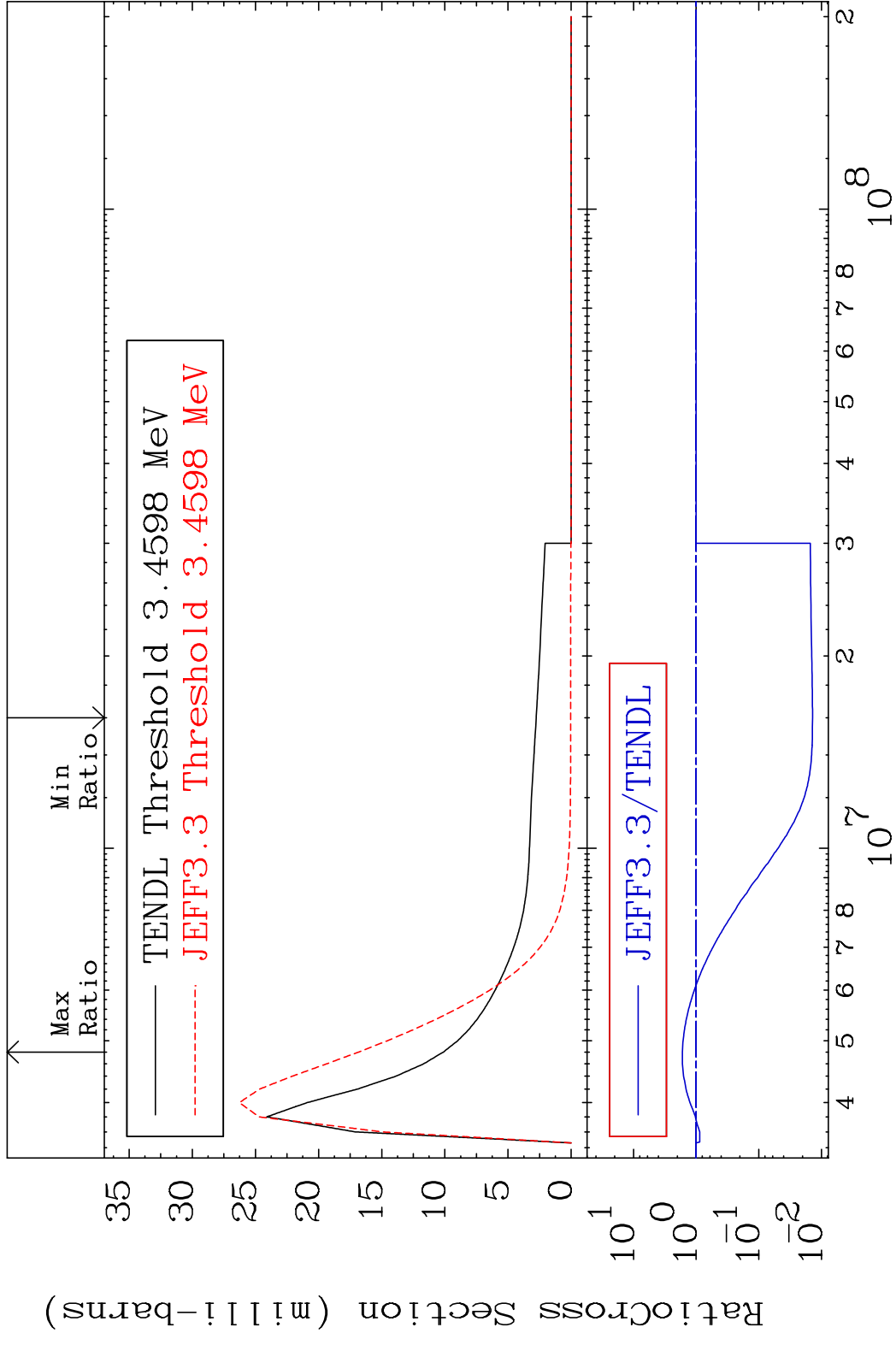
MAT 3840 MT= 74 (n,n') Level 38-Sr-89
 Cross Section -100.0 To 100.6 %



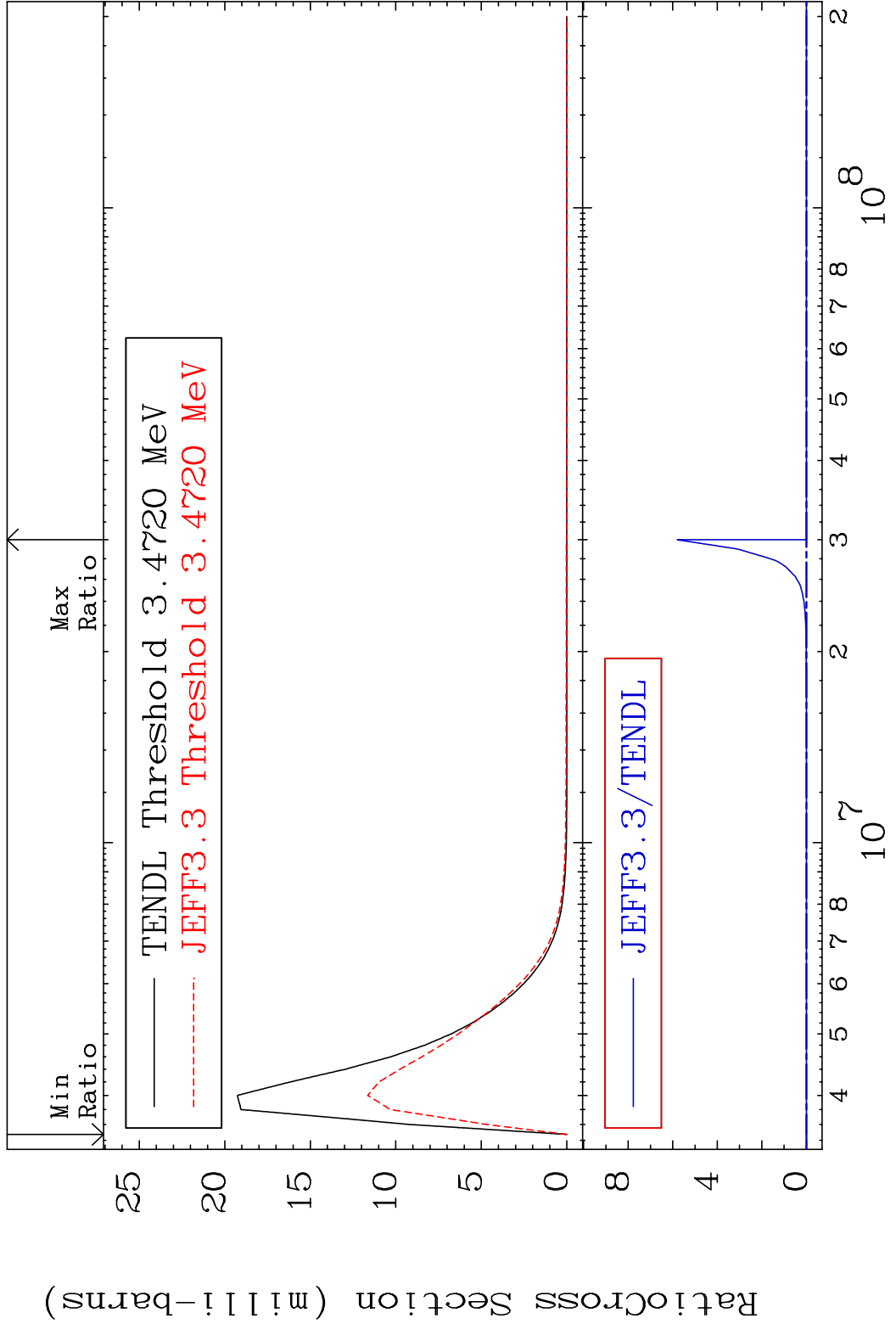
MAT 3840 MT= 75 (n,n') Level 38-Sr-89
 Cross Section -10.50 To 125.4 %



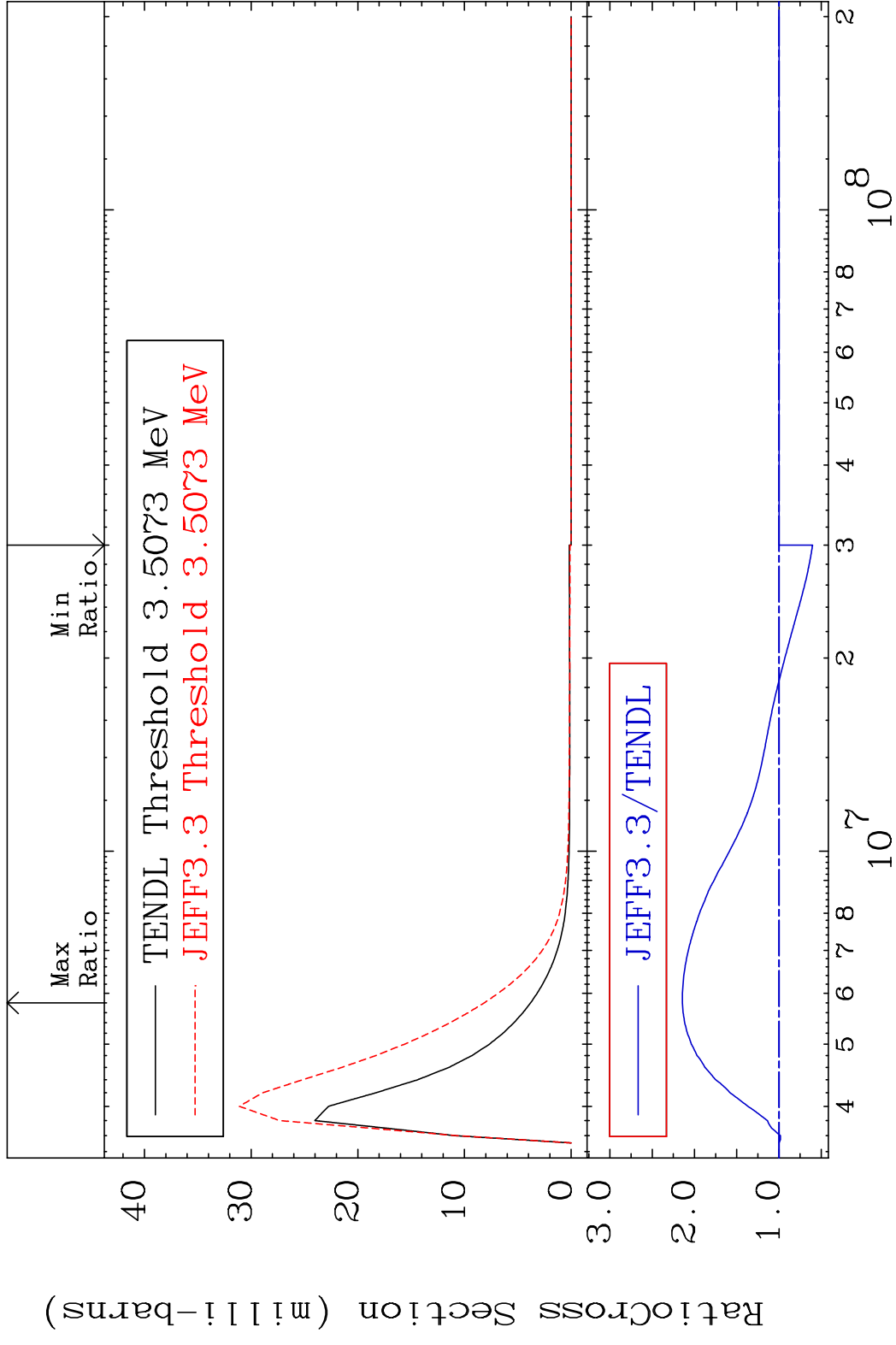
MAT 3840 MT= 76 (n,n') Level 38-Sr-89
 Cross Section -98.62 To 66.26 %



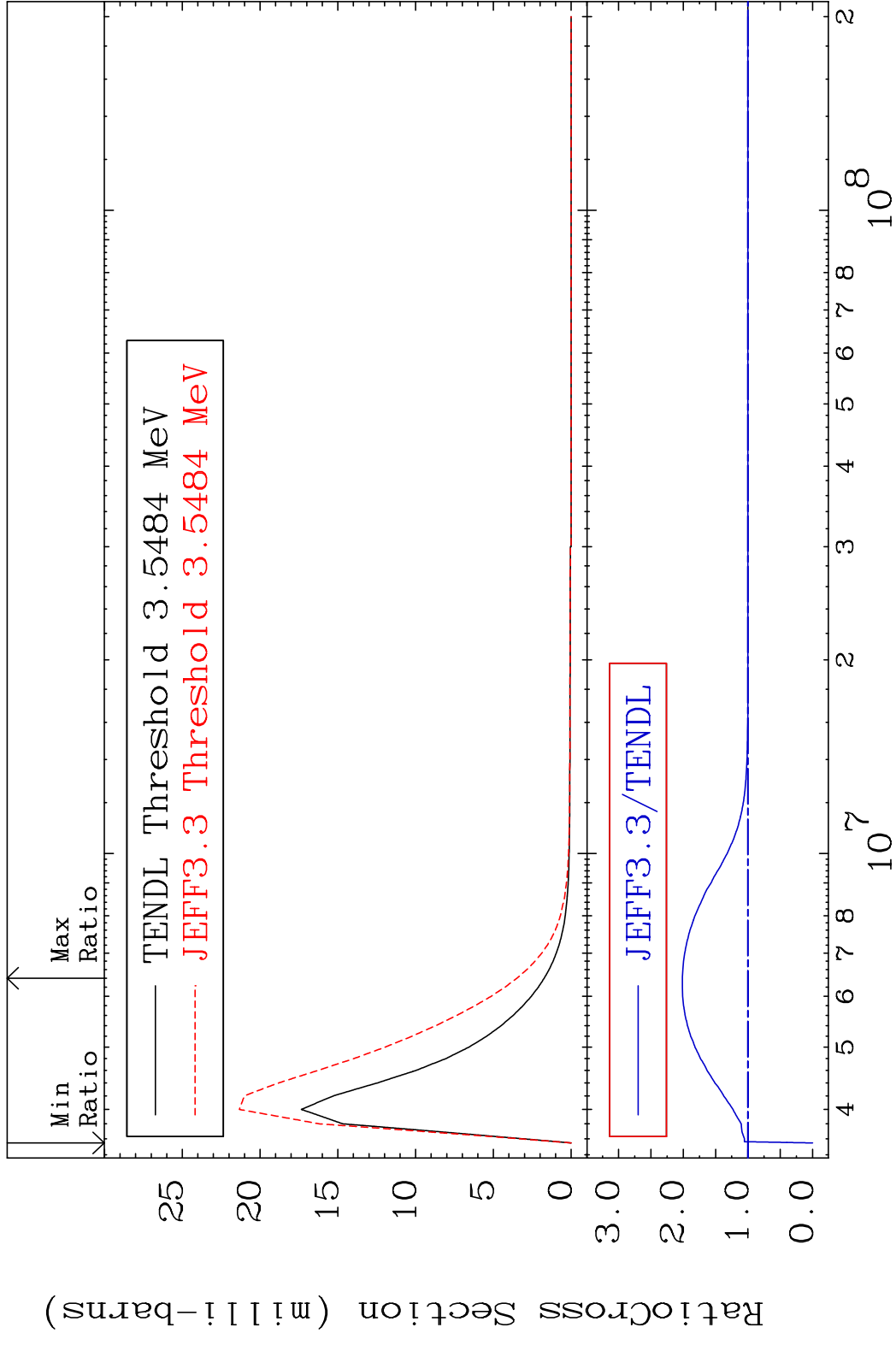
MAT 3840 MT= 77 (n, n') Level 38-Sr-89
 Cross Section -100.0 To 9999. %



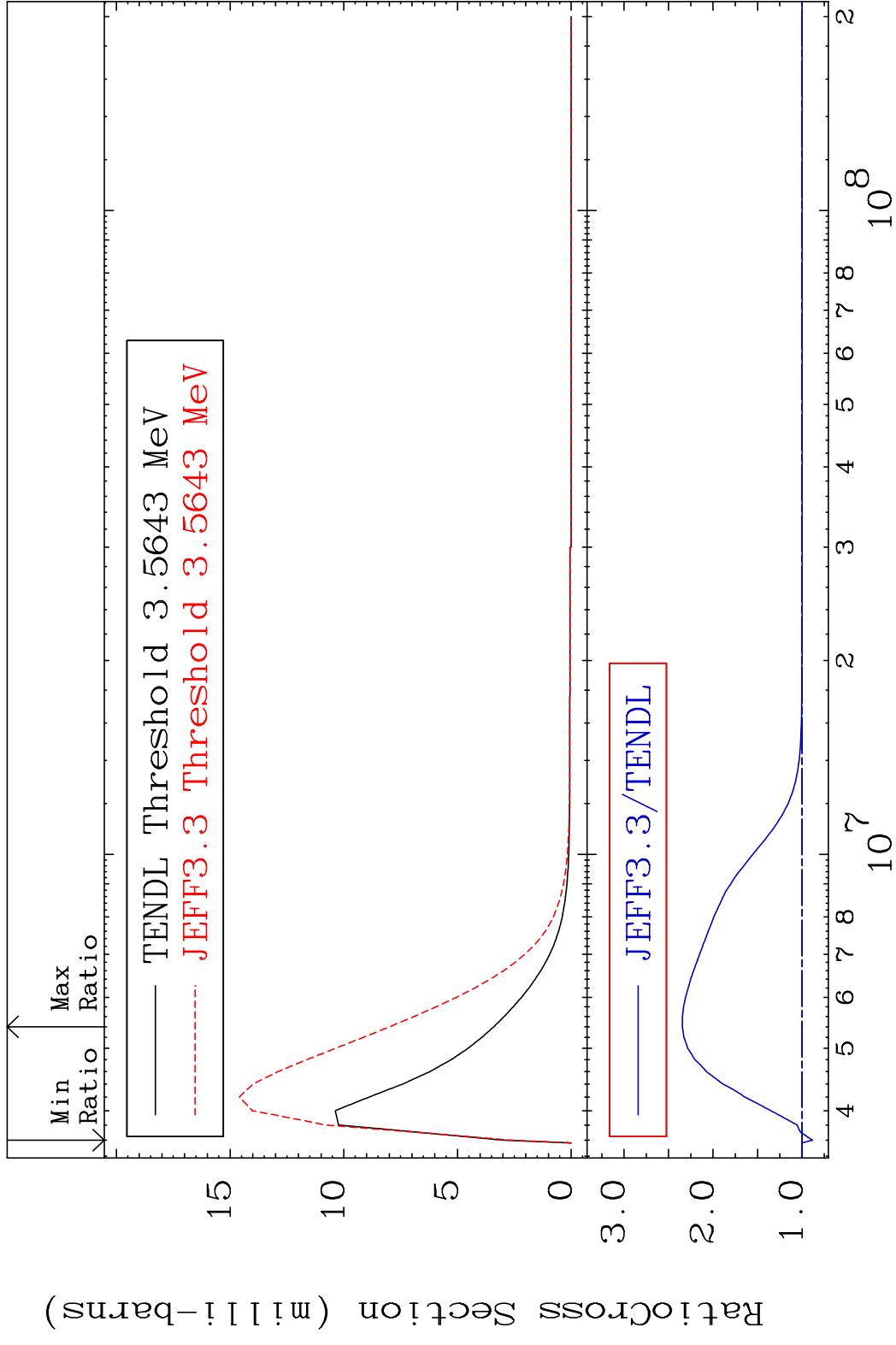
MAT 3840 MT= 78 (n,n') Level 38-Sr-89
 Cross Section -39.65 To 114.3 %



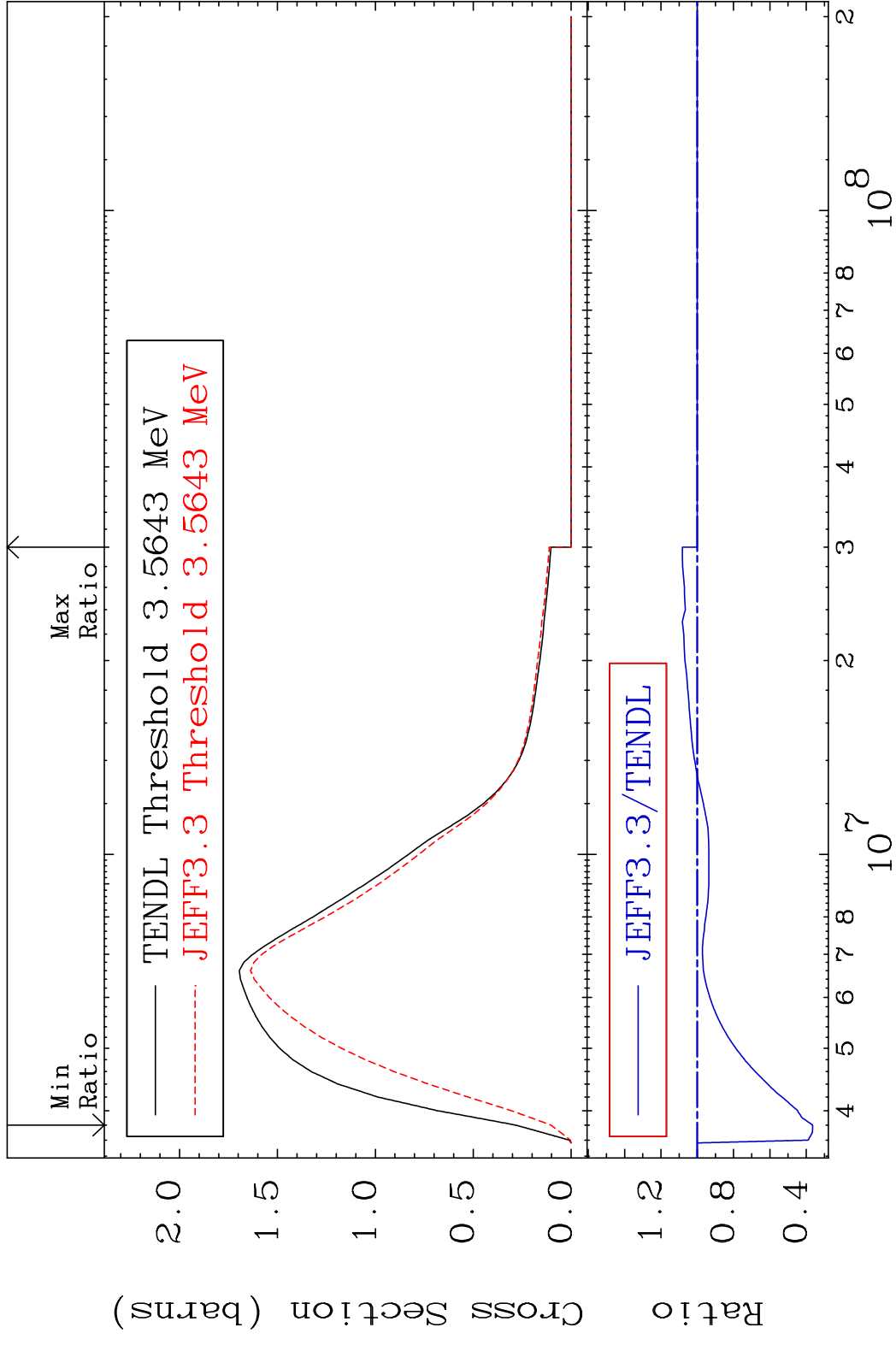
MAT 3840 MT= 79 (n, n') Level 38-Sr-89
 Cross Section -100.0 To 101.4 %



MAT 3840 MT= 80 (n, n') Level 38-Sr-89
 Cross Section -11.83 To 134.5 %



MAT 3840 (n,n') Continuum 38-Sr-89
 Cross Section -63.48 To 8.208 %

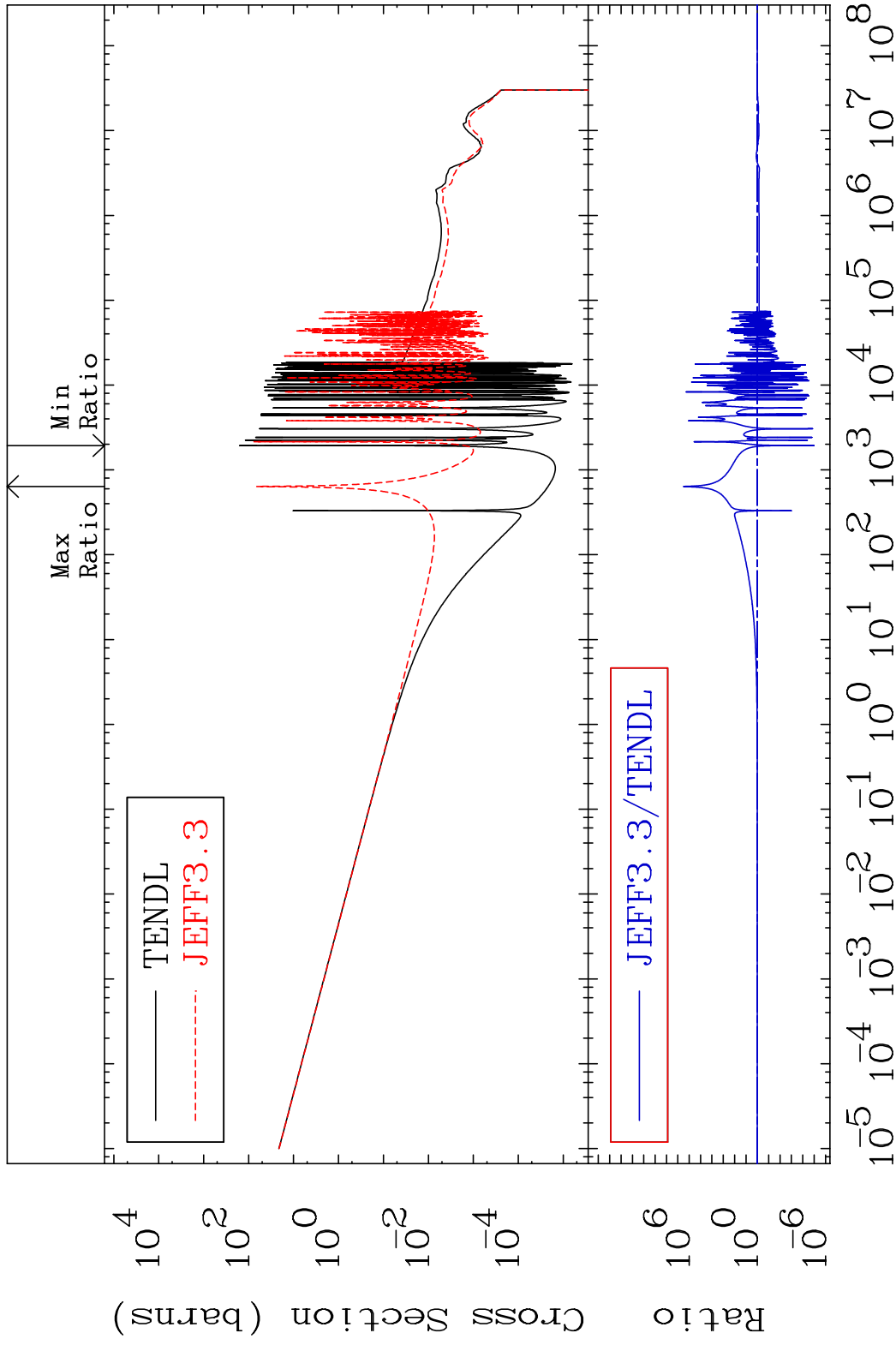


MAT 3840

(n, γ)

38-Sr-89

Cross Section -100.0 To 9999. %



49

Incident Energy (eV)

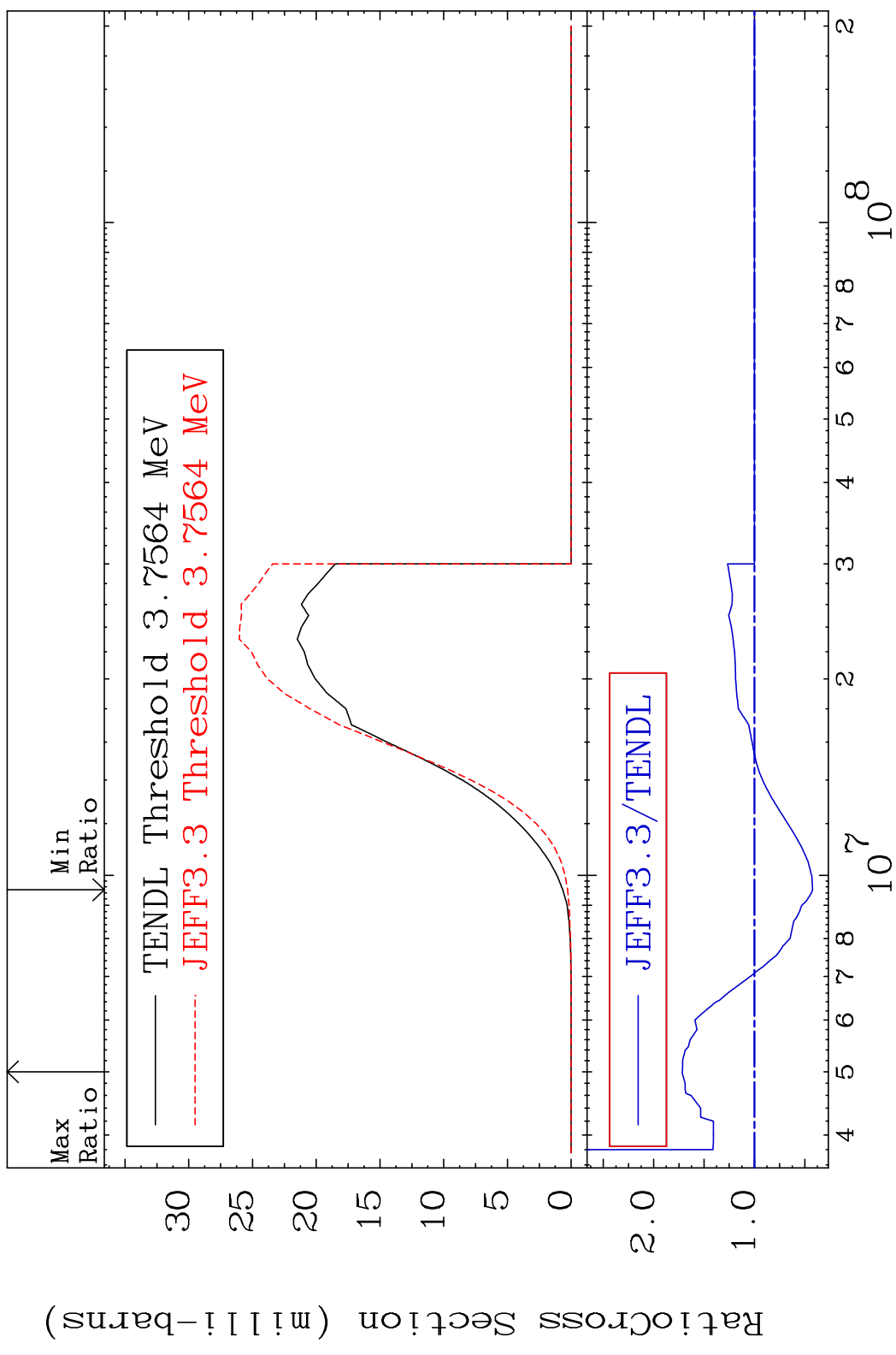
38-Sr-89

MAT 3840

(n,p)

38-Sr-89

Cross Section -57.70 To 71.56 %

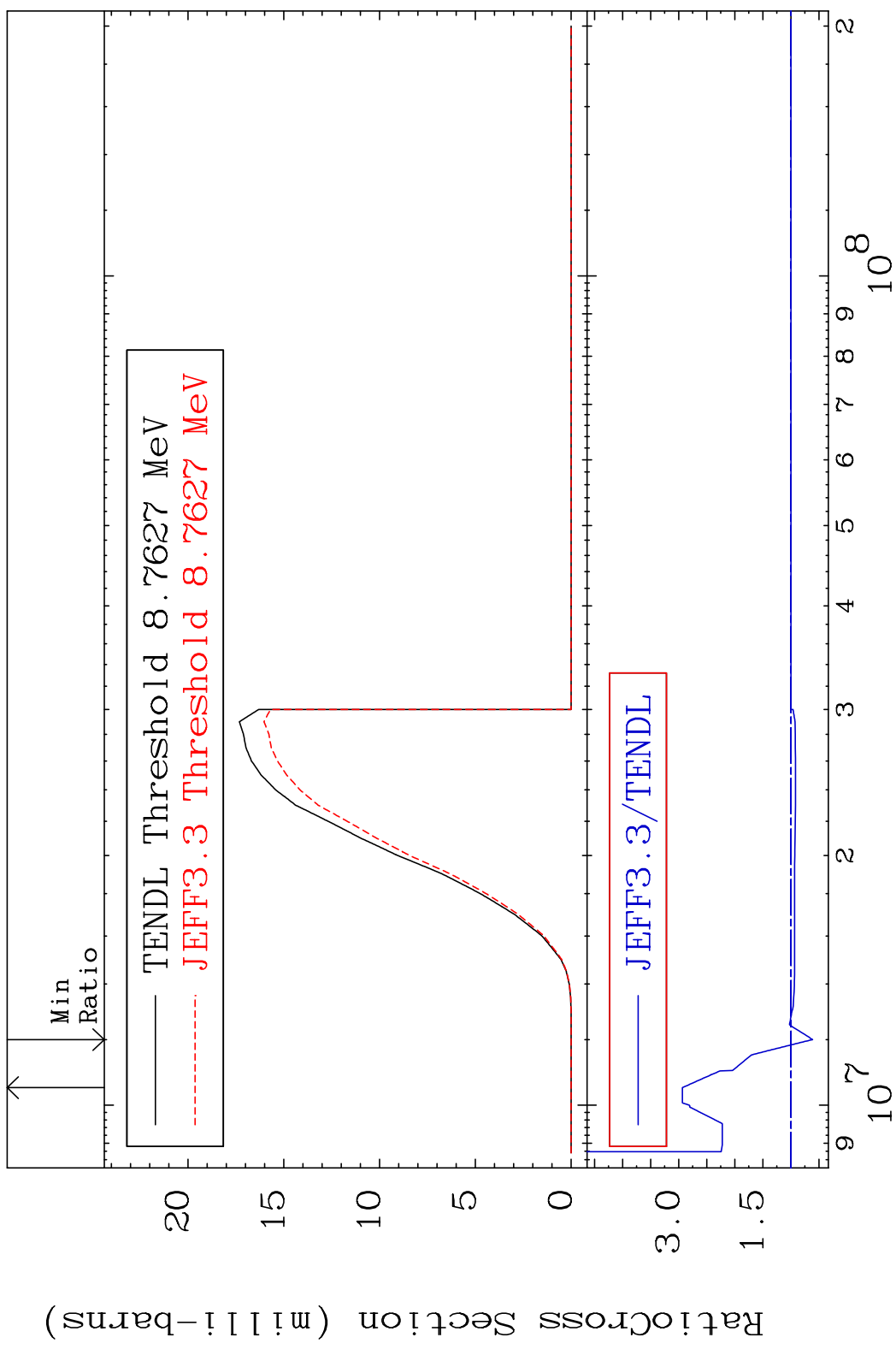


MAT 3840

(n, d)

38-Sr-89

Cross Section -38.59 To 193.4 %

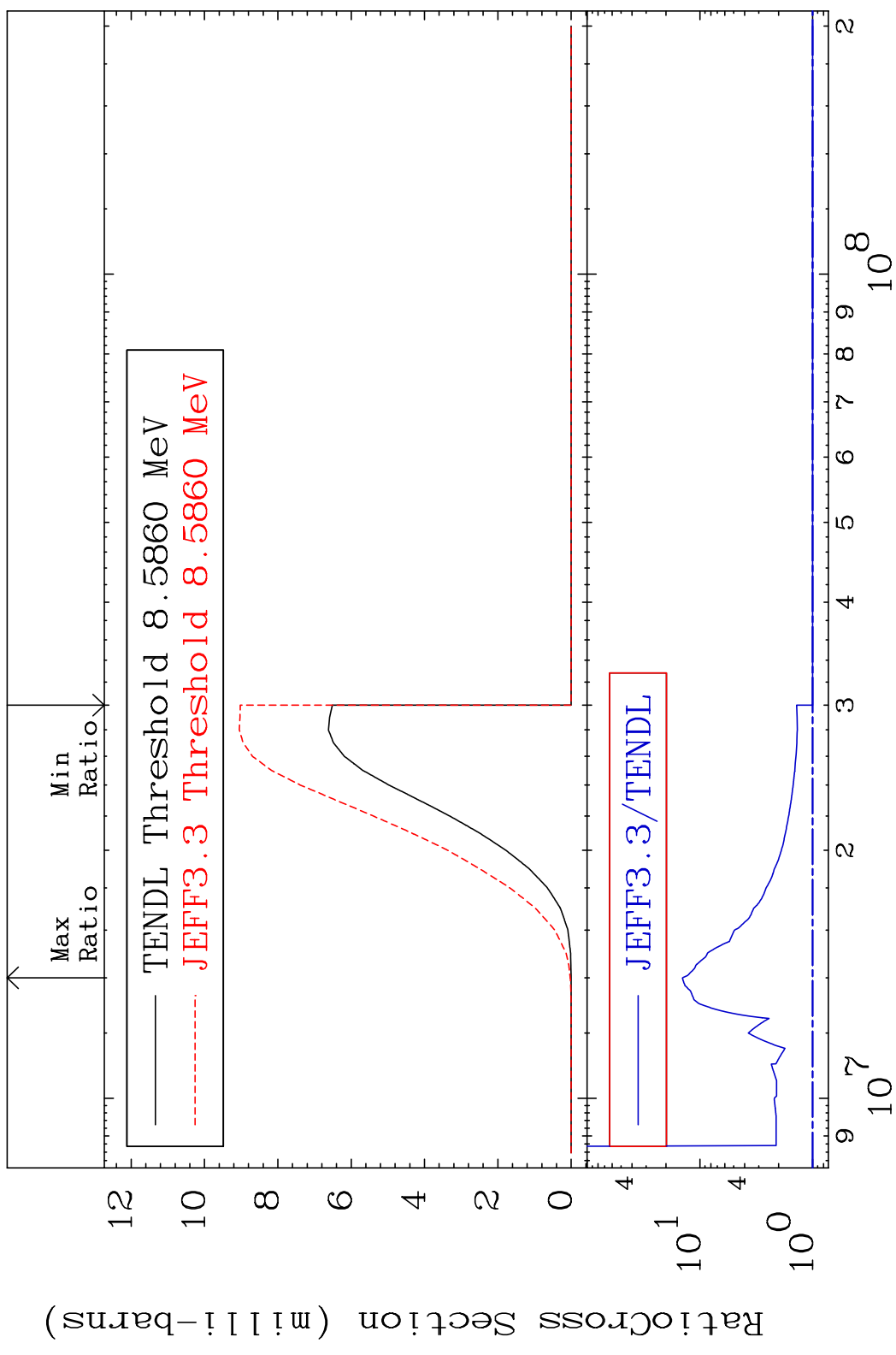


MAT 3840

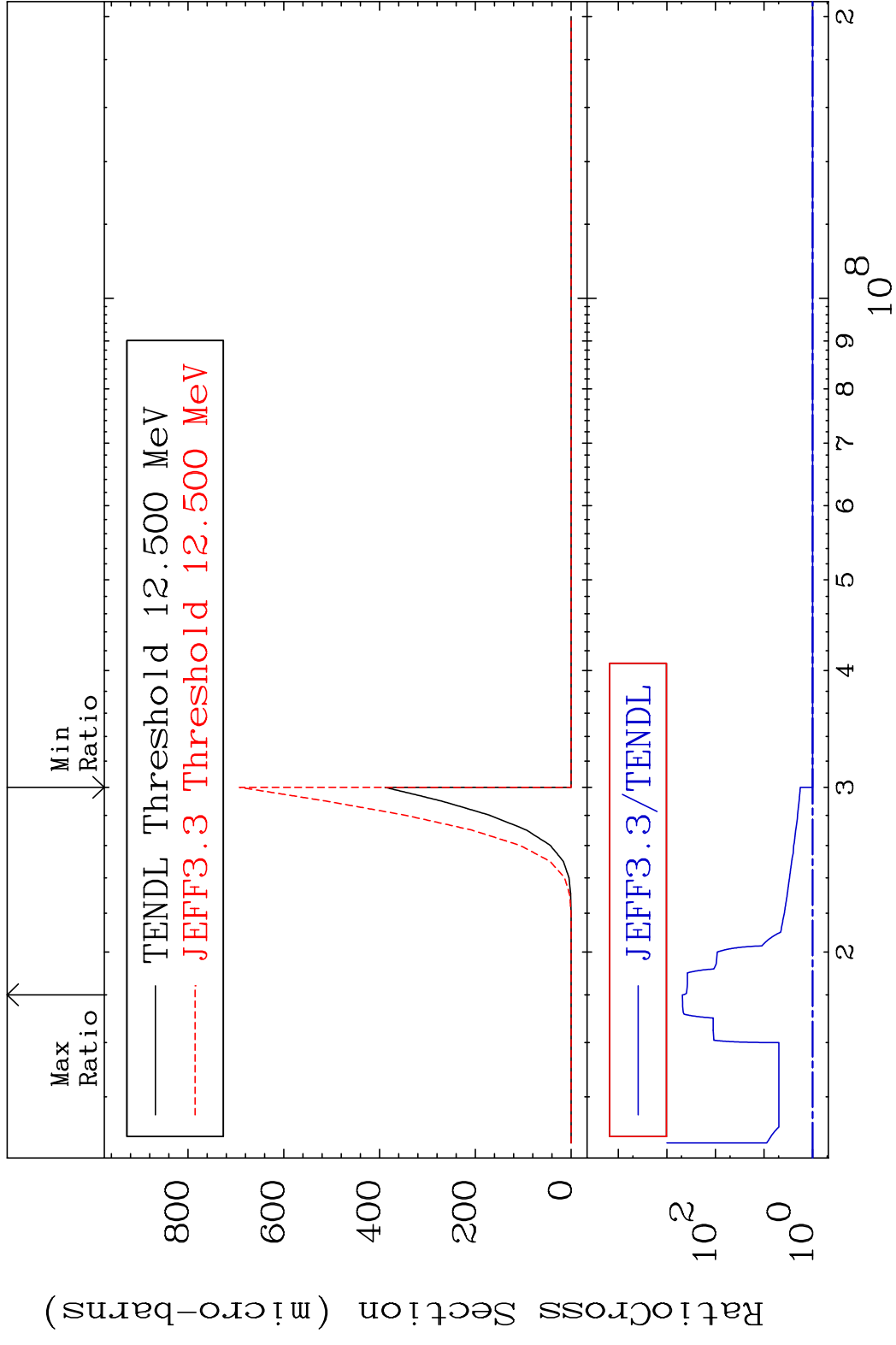
(n, t)

38-Sr-89

Cross Section 0.000 To 1330. %



MAT 3840 (n, He-3) 38-Sr-89
 Cross Section 0.000 To 9999. %

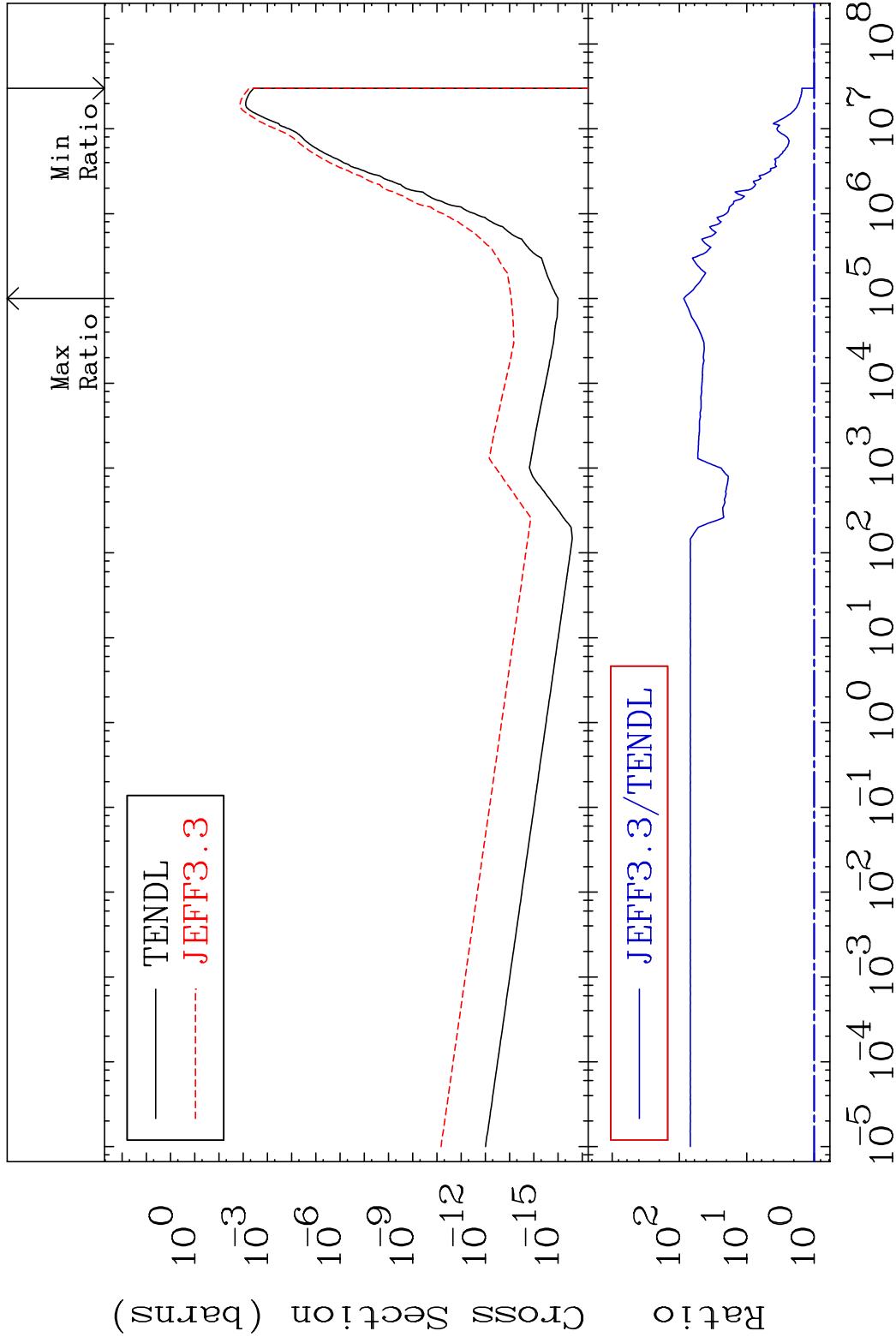


MAT 3840

(n, α)

38-Sr-89

Cross Section 0.000 To 8554. %



54

Incident Energy (eV)

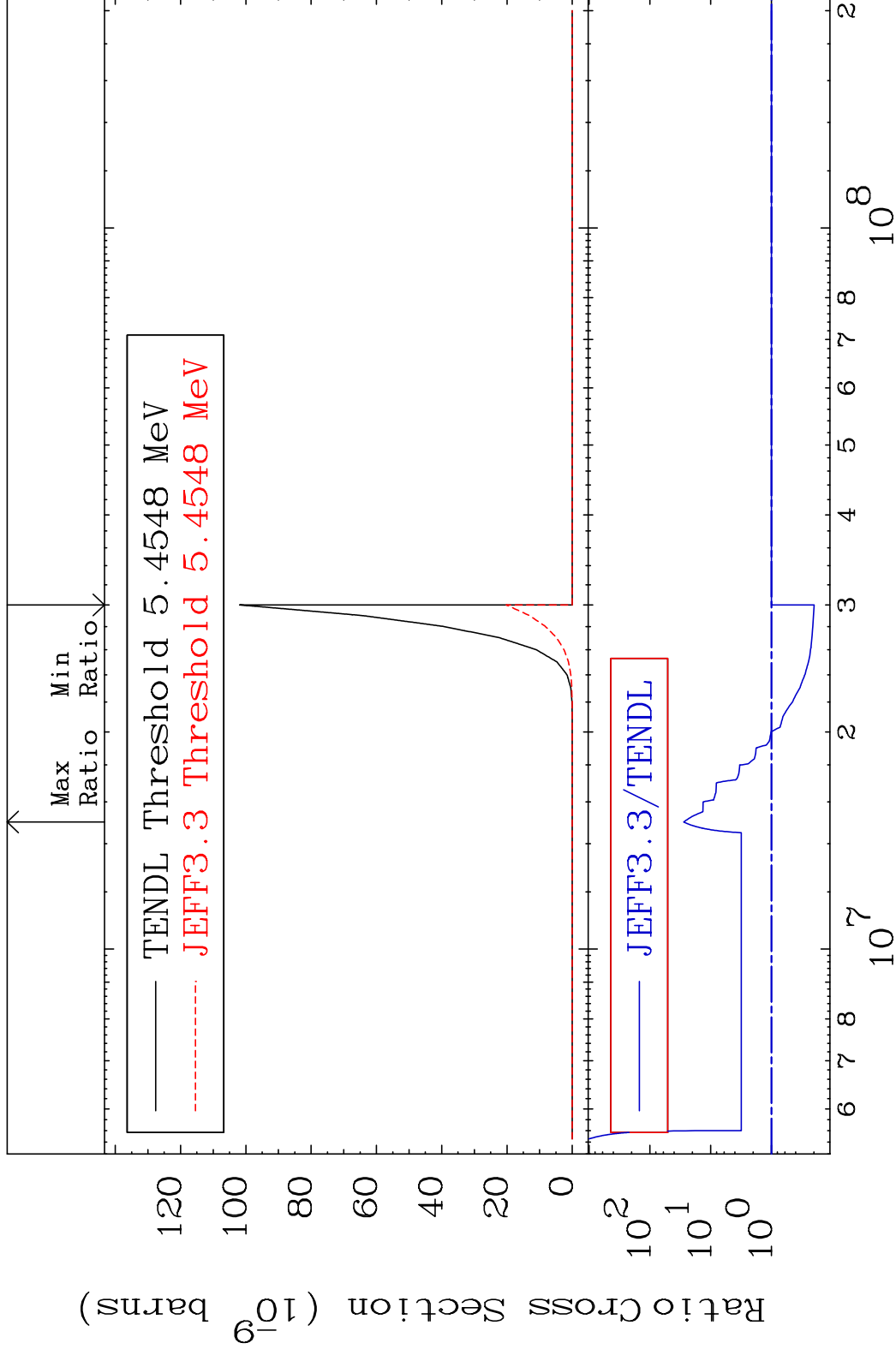
38-Sr-89

MAT 3840

(n,2α)

38-Sr-89

Cross Section -80.15 To 2685. %

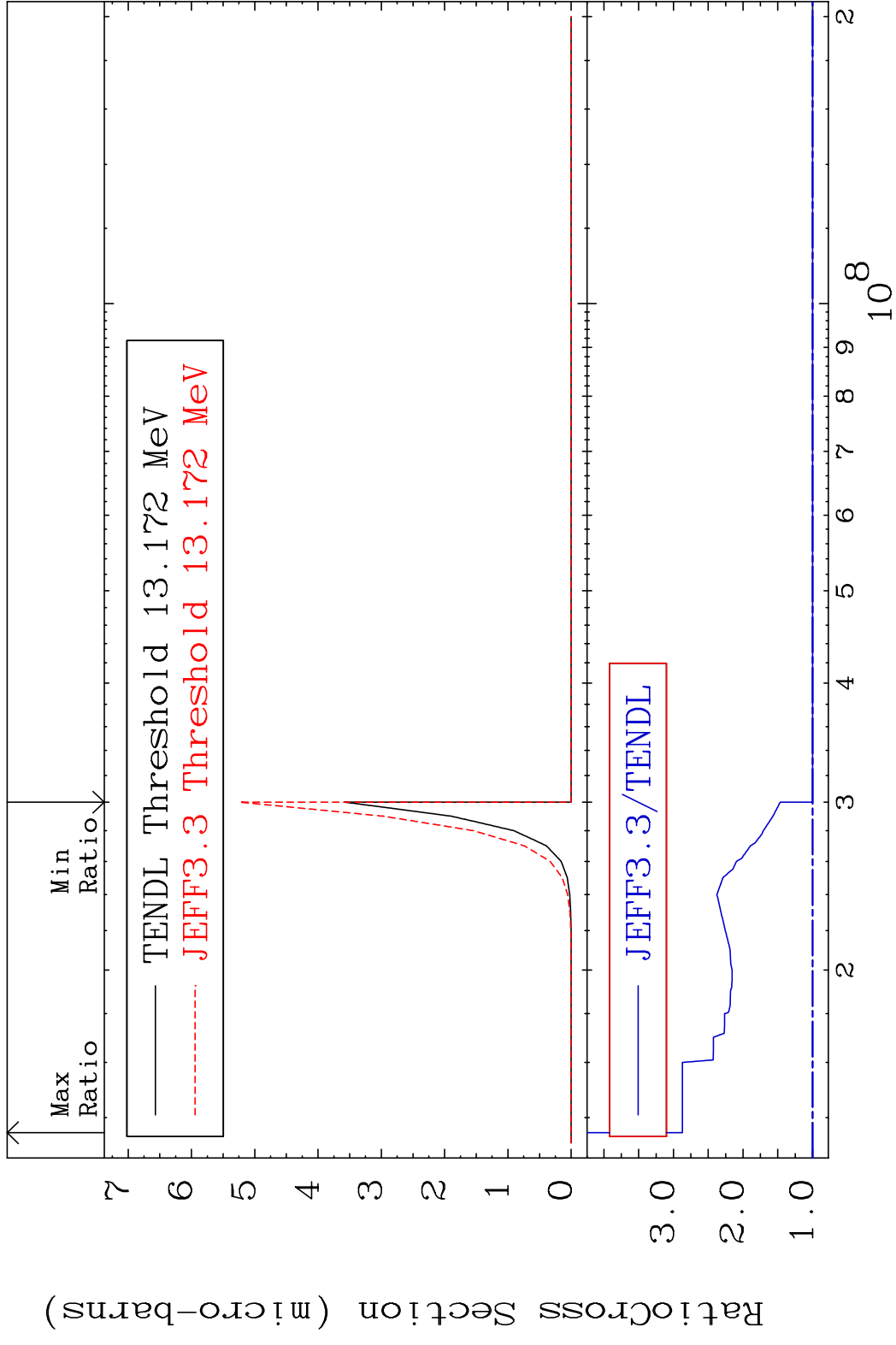


55

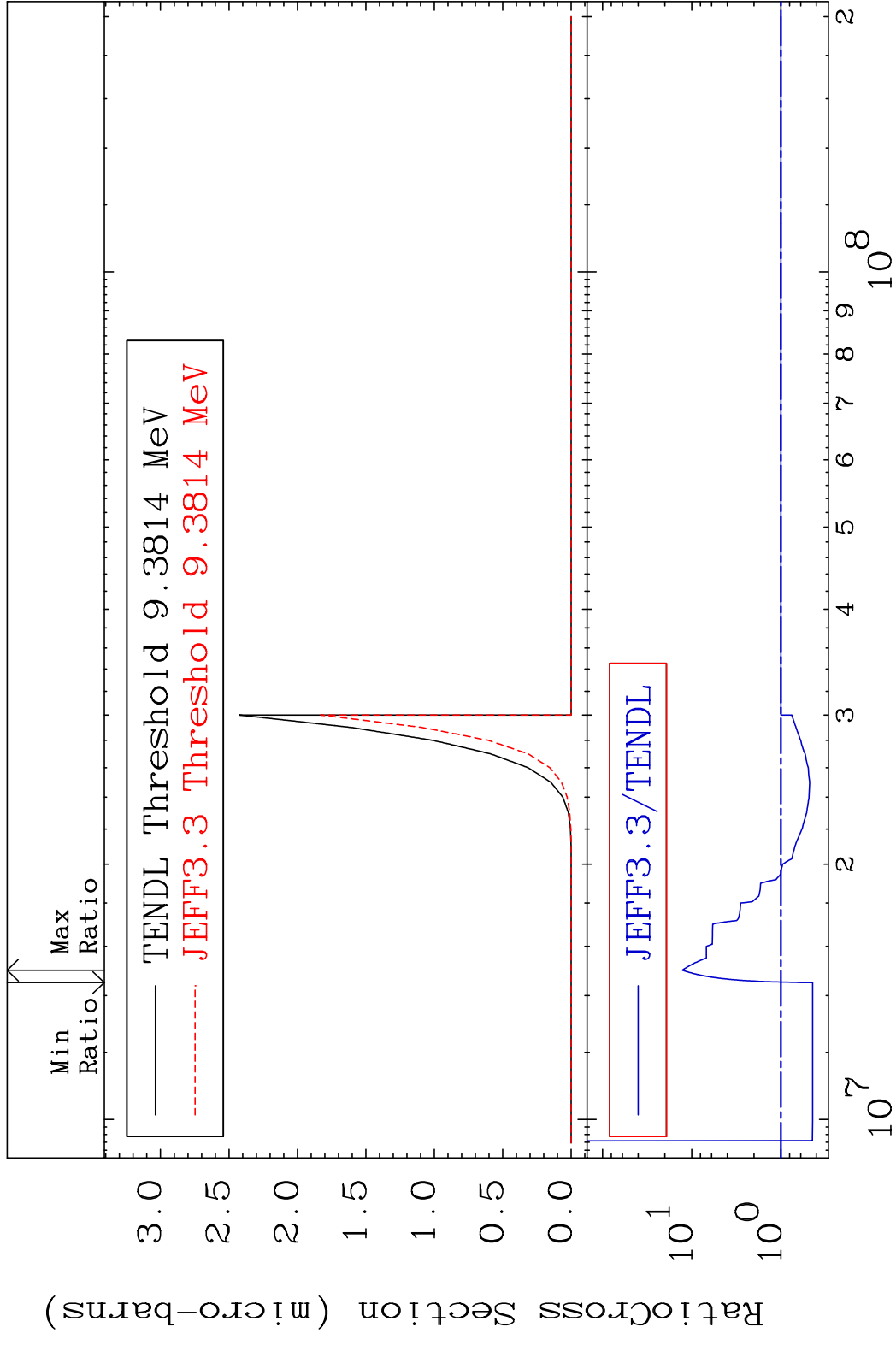
Incident Energy (eV)

38-Sr-89

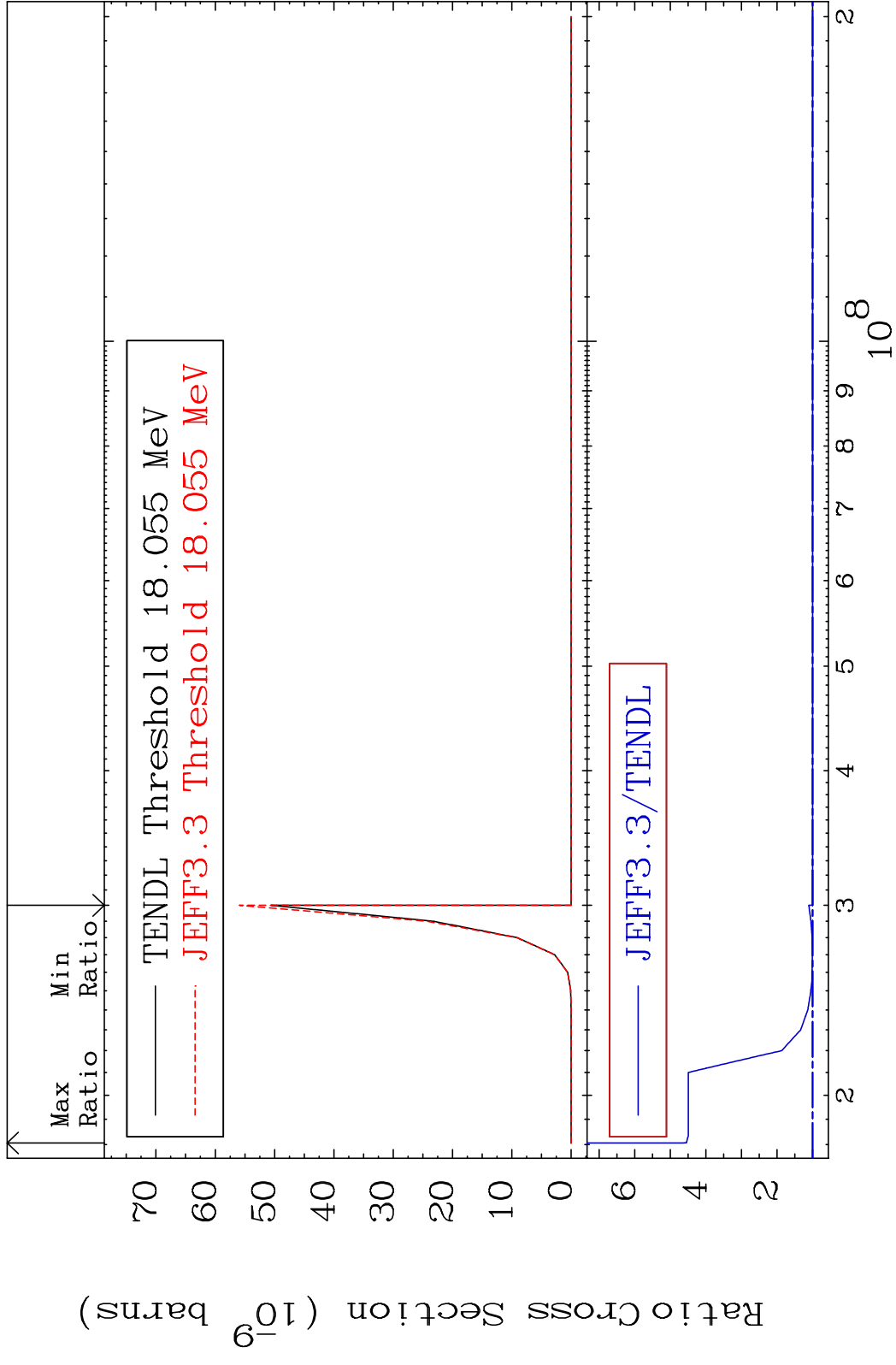
MAT 3840 (n,2p) 38-Sr-89
 Cross Section 0.000 To 187.2 %



MAT 3840 (n,p) α 38-Sr-89
 Cross Section -55.88 To 1174. %



MAT 3840 (n,p) d 38-Sr-89
 Cross Section 0.000 To 366.2 %

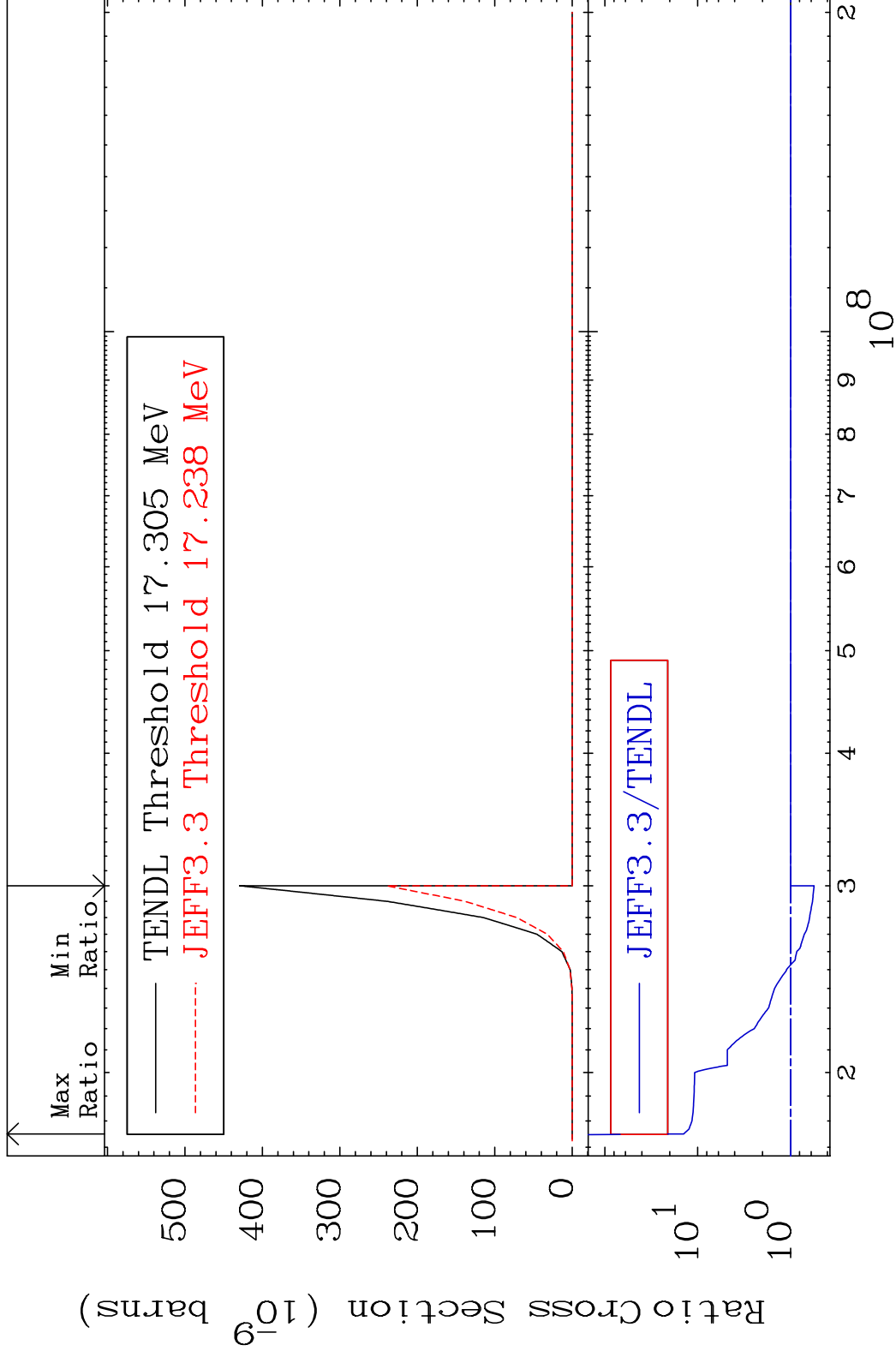


MAT 3840

(n,p) t

38-Sr-89

Cross Section -44.24 To 1318. %



59

Incident Energy (eV)

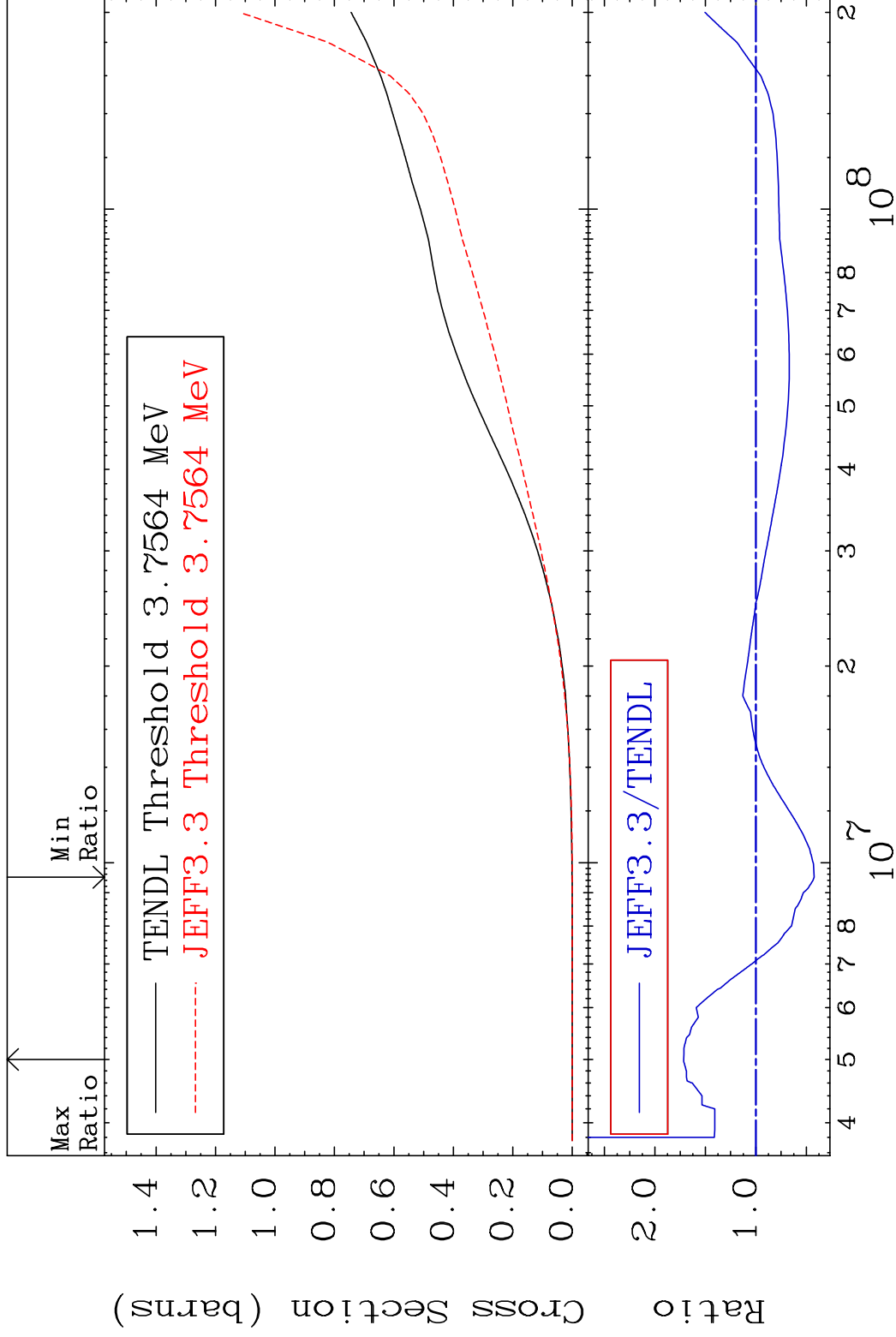
38-Sr-89

MAT 3840

Hydrogen Production

³⁸Sr-89

Cross Section -57.70 To 71.56 %



60

Incident Energy (eV)

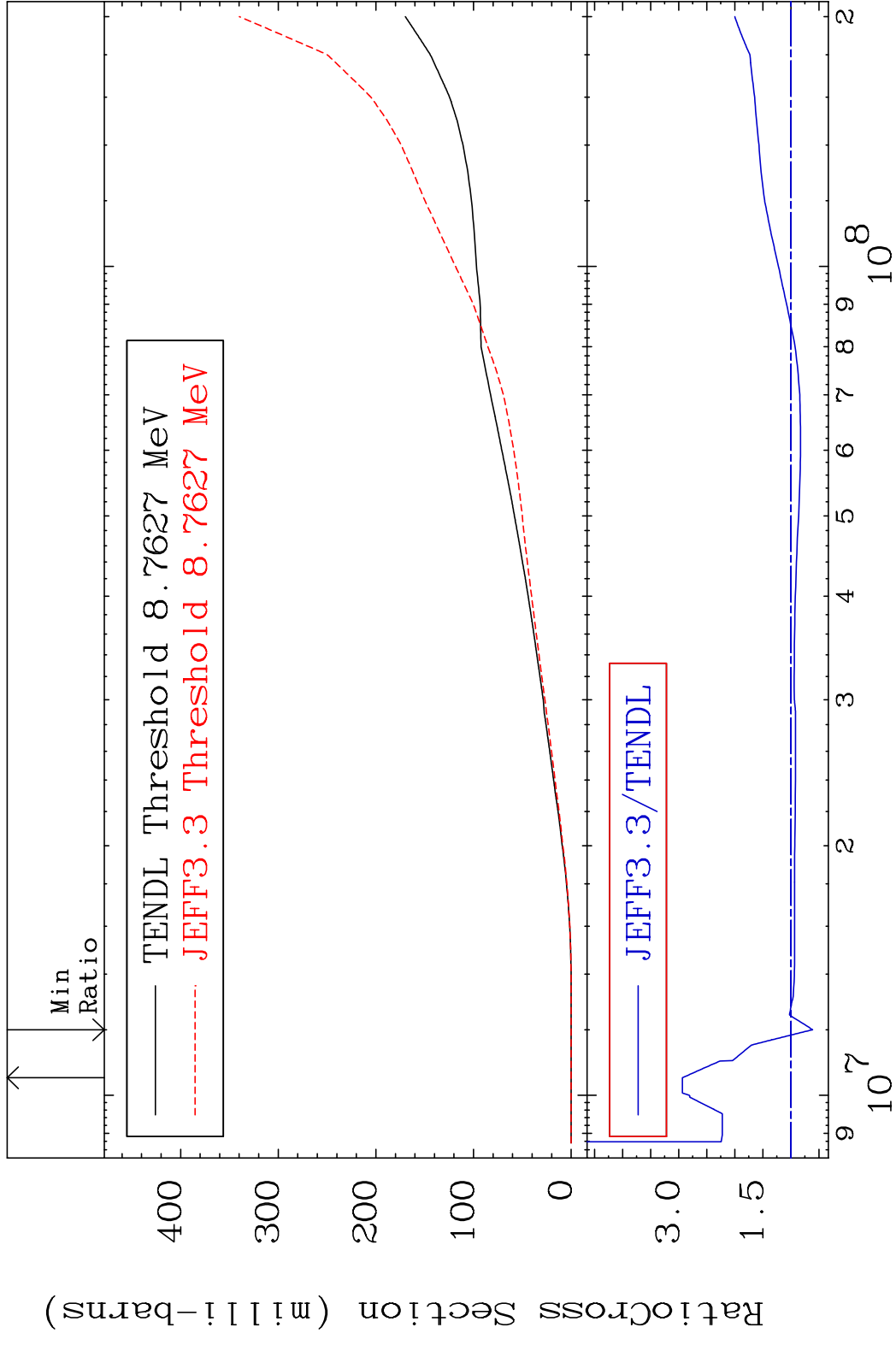
³⁸Sr-89

MAT 3840

Deuterium Production

38-Sr-89

Cross Section -38.59 To 193.4 %

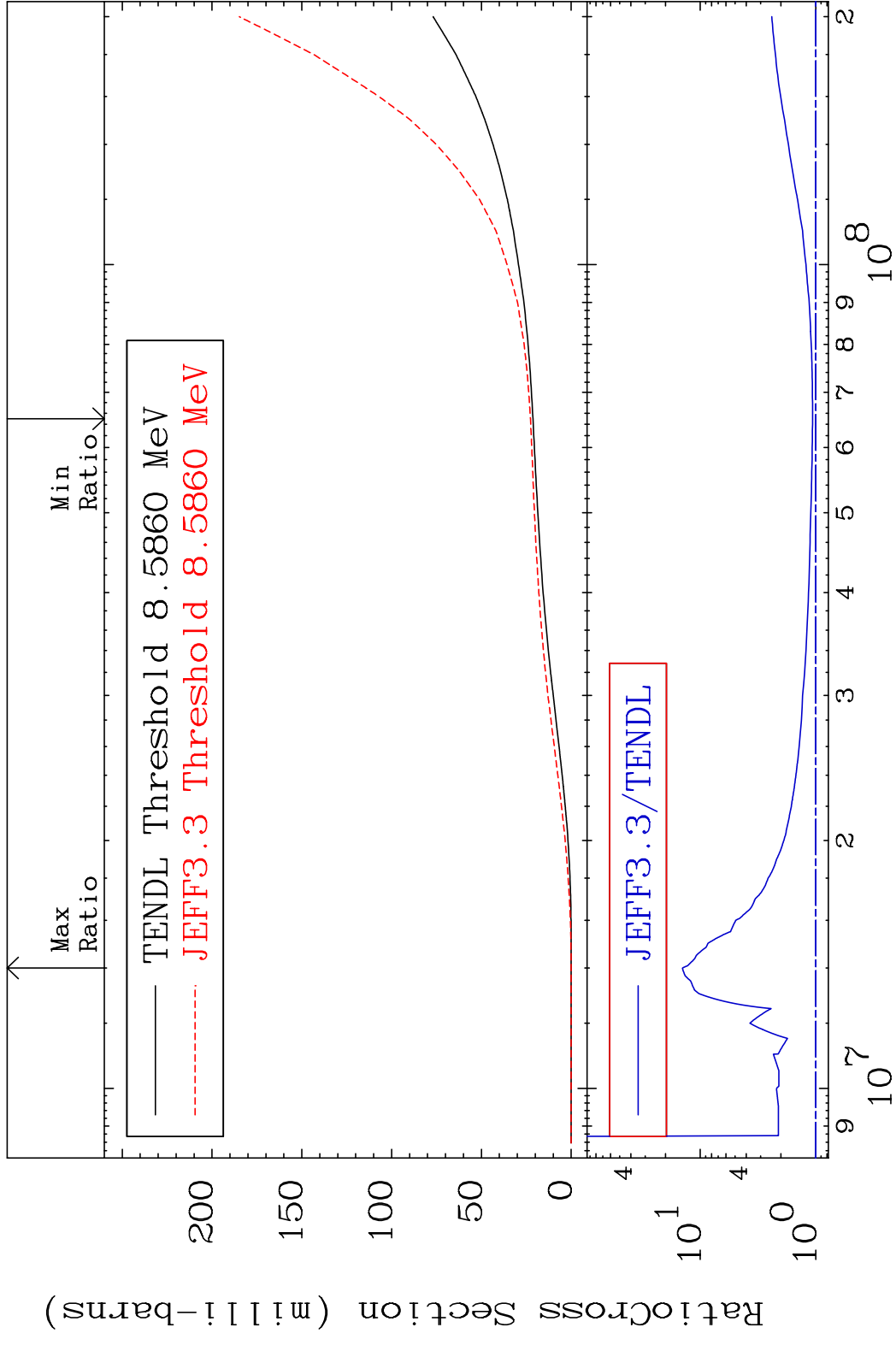


61

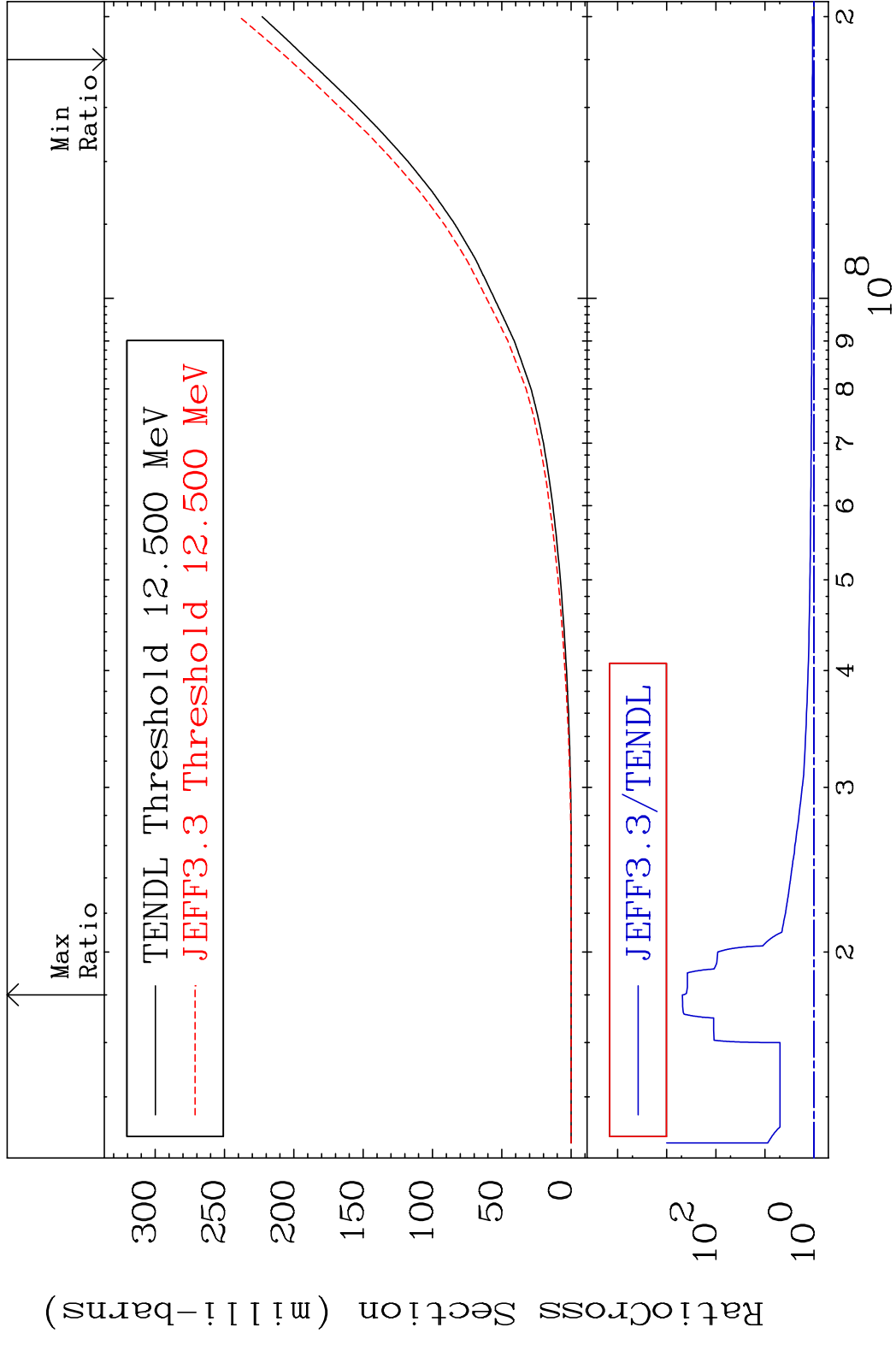
Incident Energy (eV)

38-Sr-89

MAT 3840 Tritium Production 38-Sr-89
 Cross Section 6.566 To 1330. %



MAT 3840 He-3 Production 38-Sr-89
 Cross Section 7.005 To 9999. %

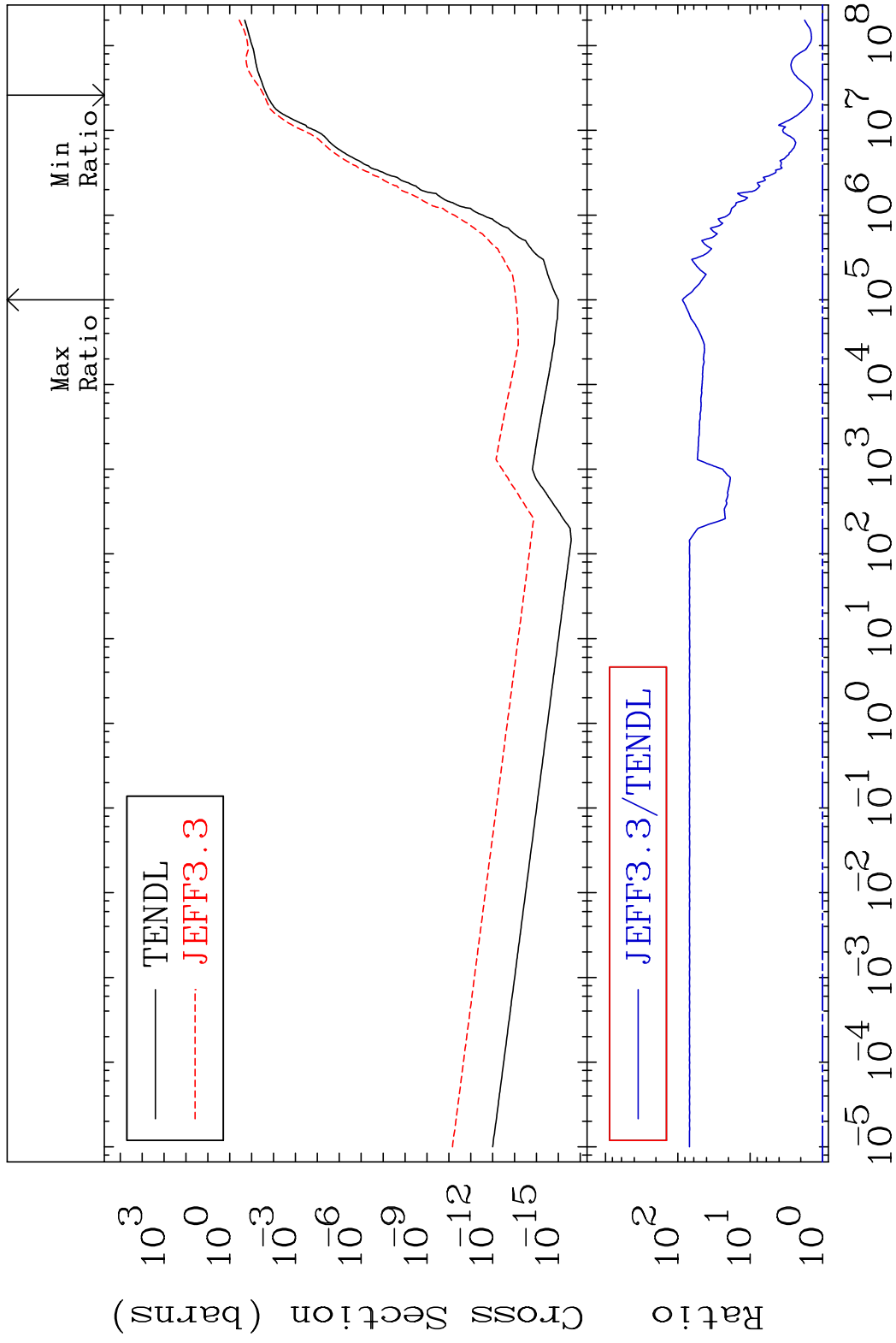


MAT 3840

He-4 Production

38-Sr-89

Cross Section 37.44 To 8554. %

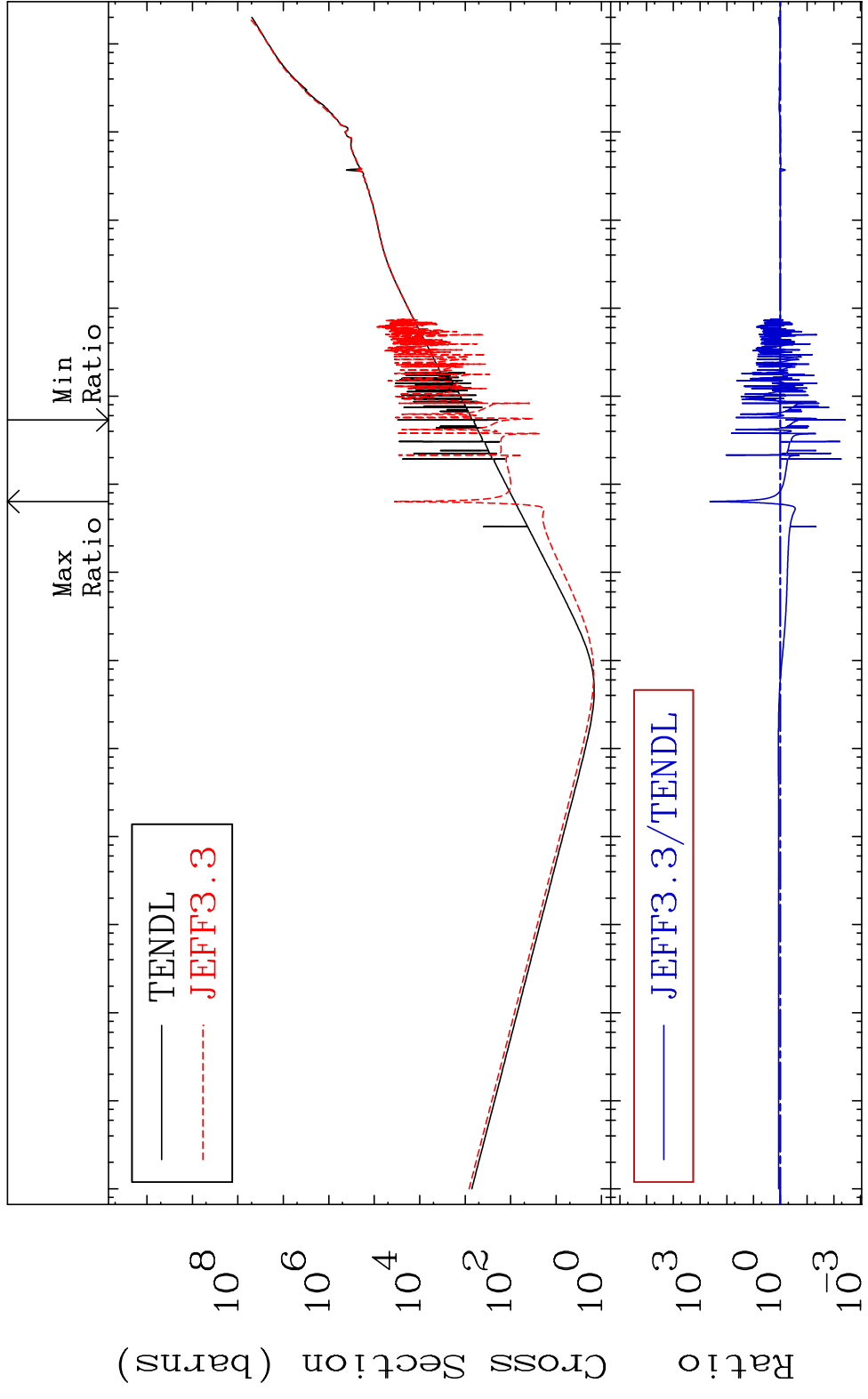


64

Incident Energy (eV)

38-Sr-89

MAT 3840 Kerma total (eV-barns) 38-Sr-89
 Cross Section -99.63 To 9999. %

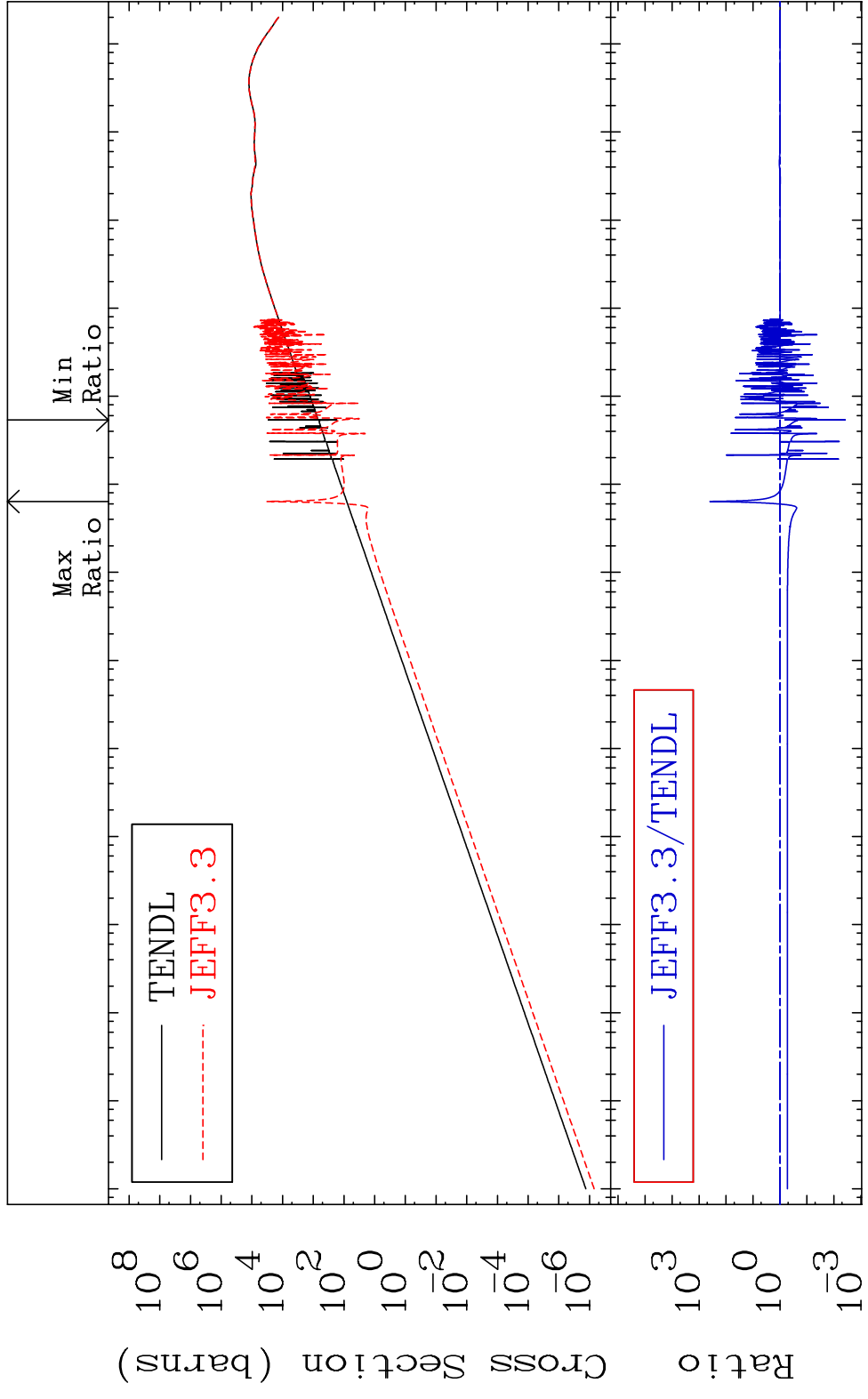


65 Incident Energy (eV) 38-Sr-89

MAT 3840

Kerma elastic
Cross Section

38-Sr-89
-99.62 To 9999. %

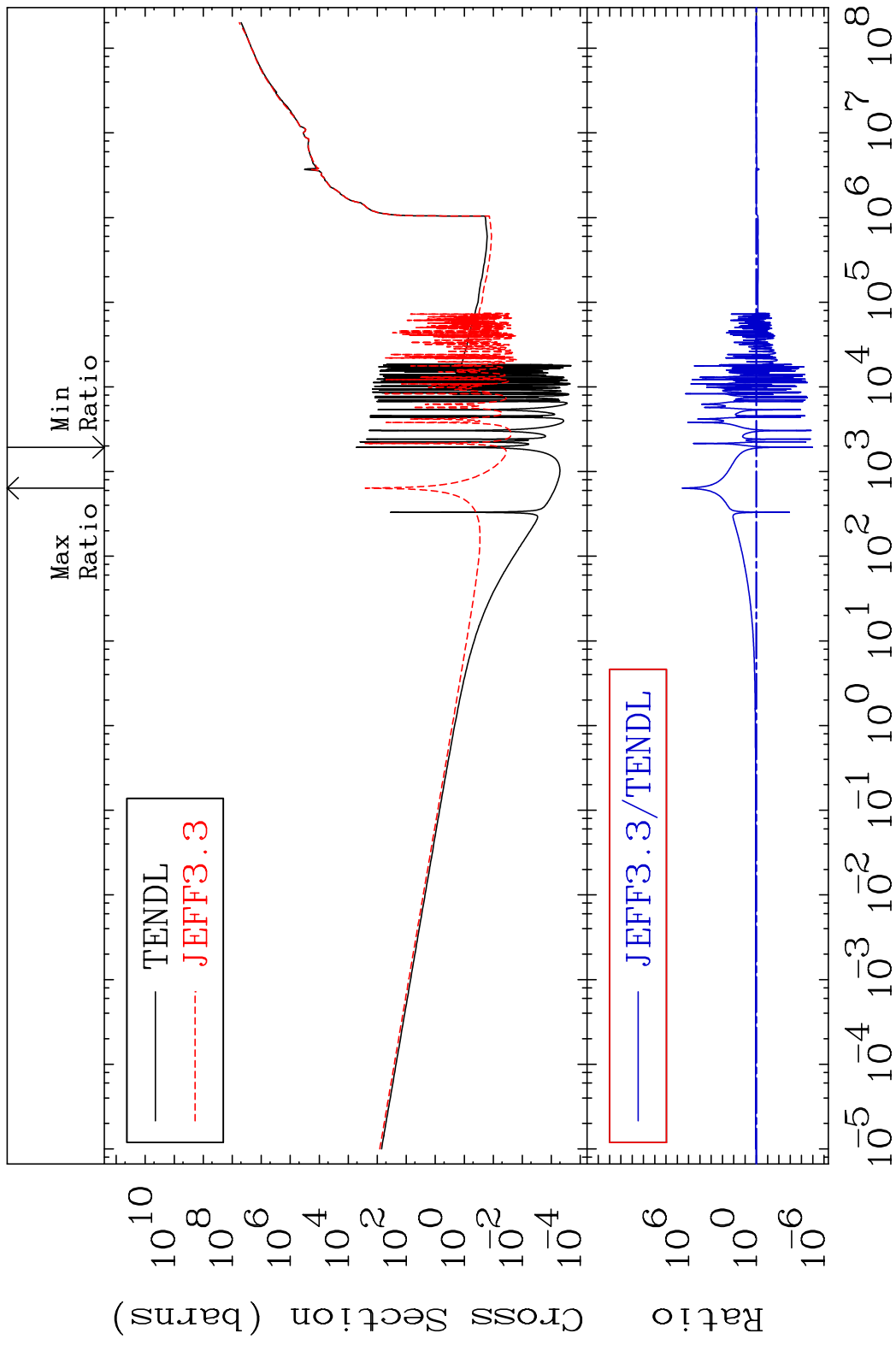


66

Incident Energy (eV)

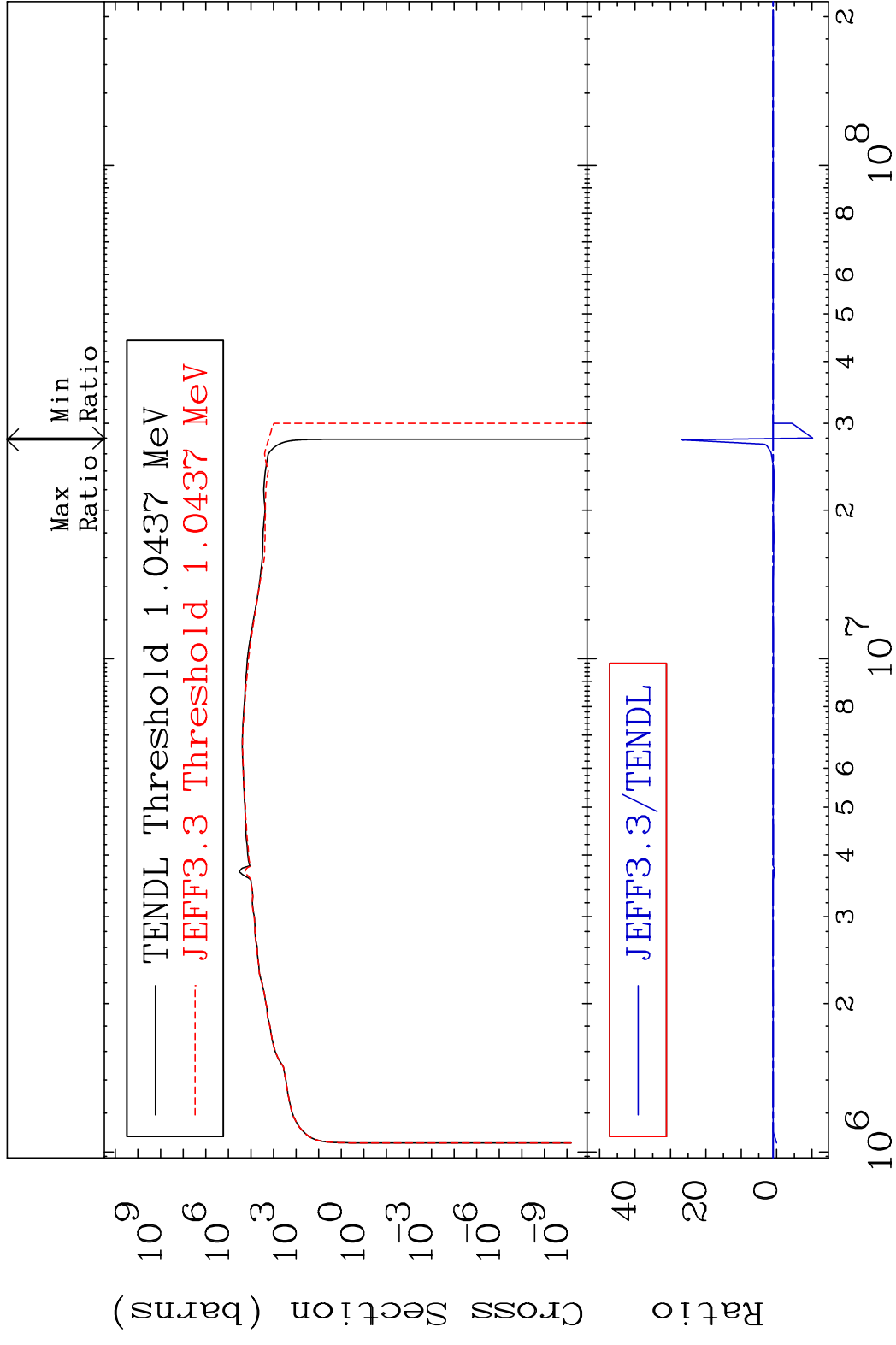
38-Sr-89

MAT 3840 Kerma non-elastic (all but mt2) 38-Sr-89
 Cross Section -100.0 To 9999. %



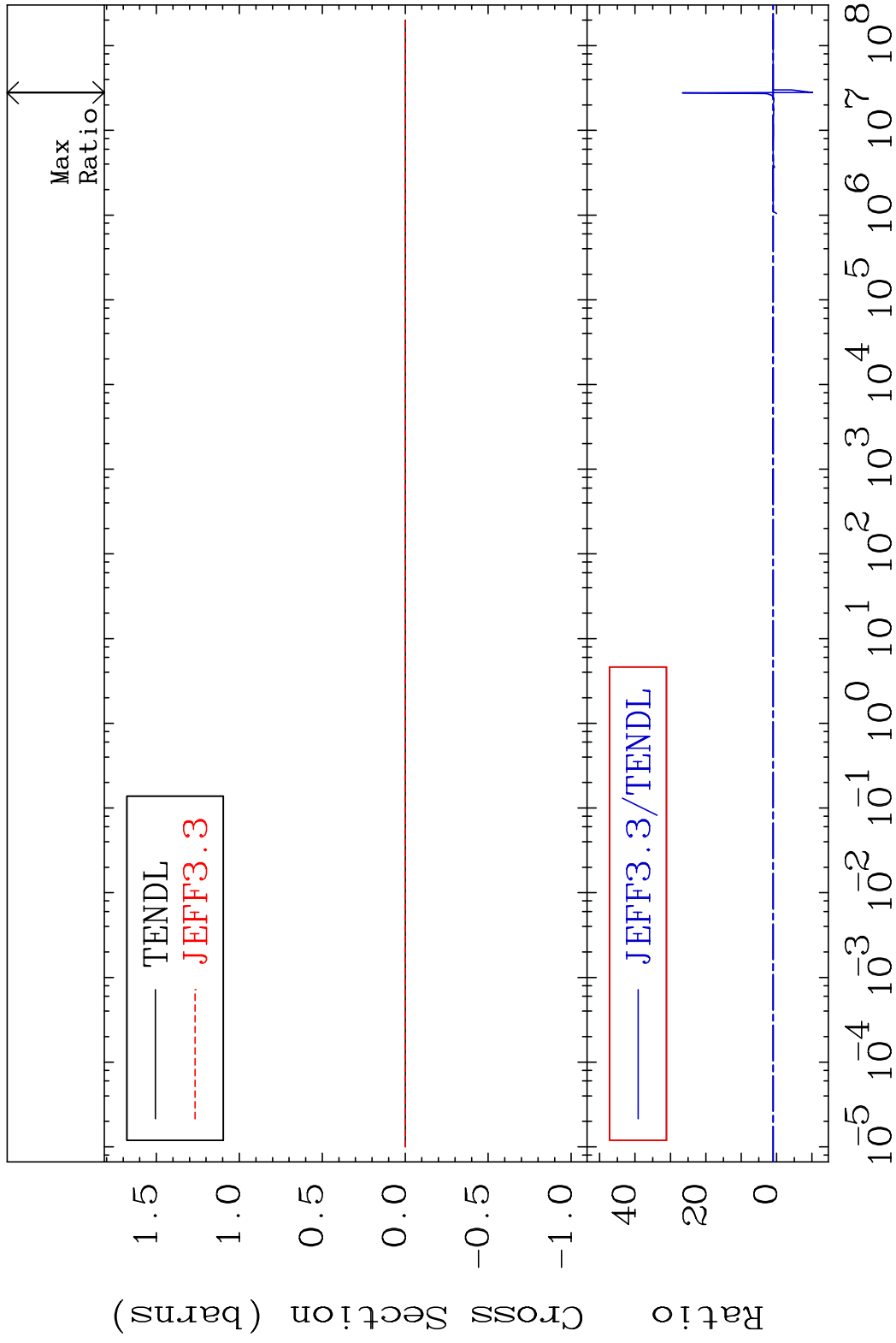
67 Incident Energy (eV) 38-Sr-89

MAT 3840 Kerma inelastic (mt51-91) 38-Sr-89
 Cross Section -1116. To 2563. %

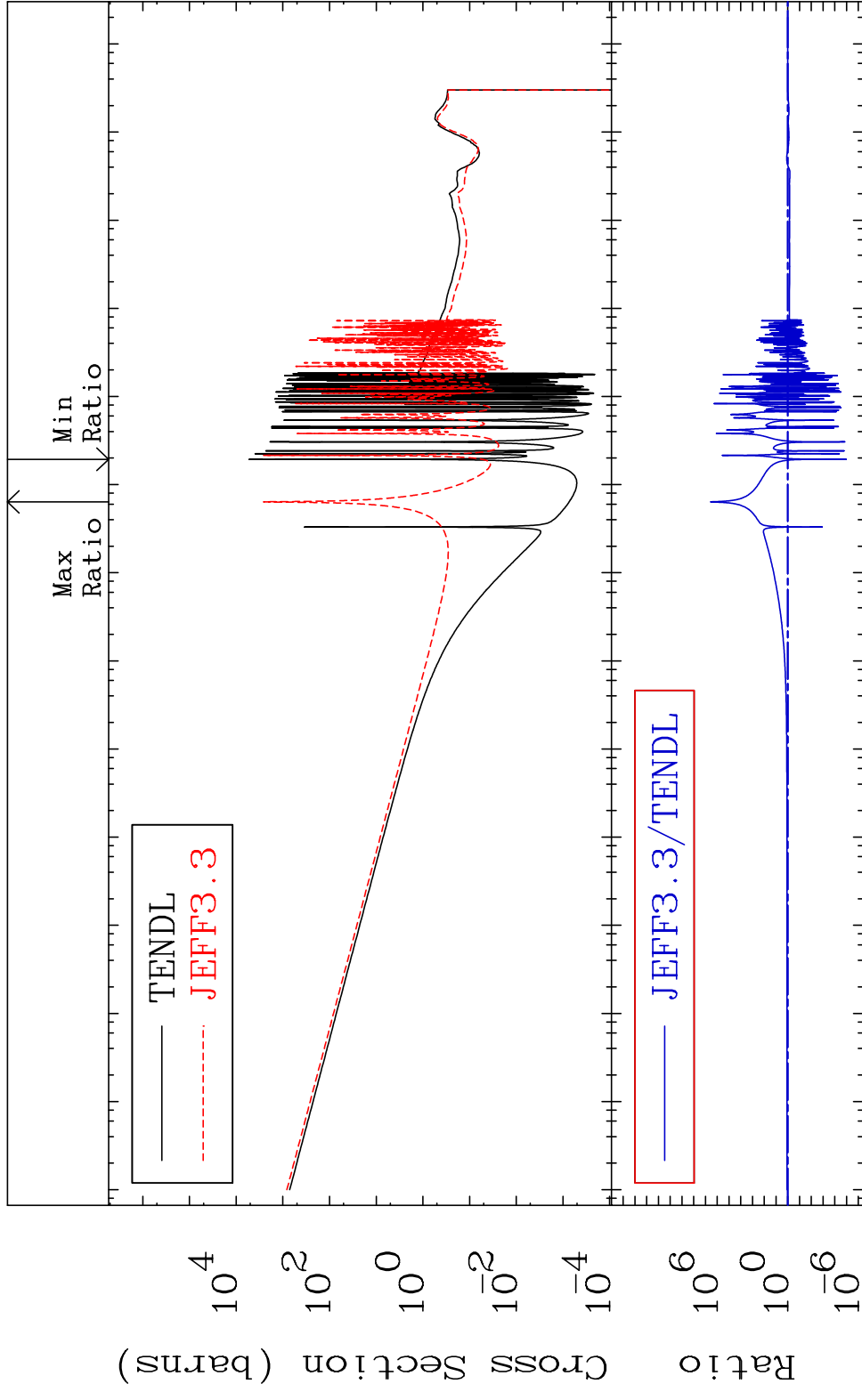


68 Incident Energy (eV) 38-Sr-89

MAT 3840 Kerma fission (mt18 or mt19-20-21-38) 38-Sr-89
 Cross Section -1116. To 2563. %



MAT 3840 Kerma capture (mt102) 38-Sr-89
 Cross Section -100.0 To 9999. %



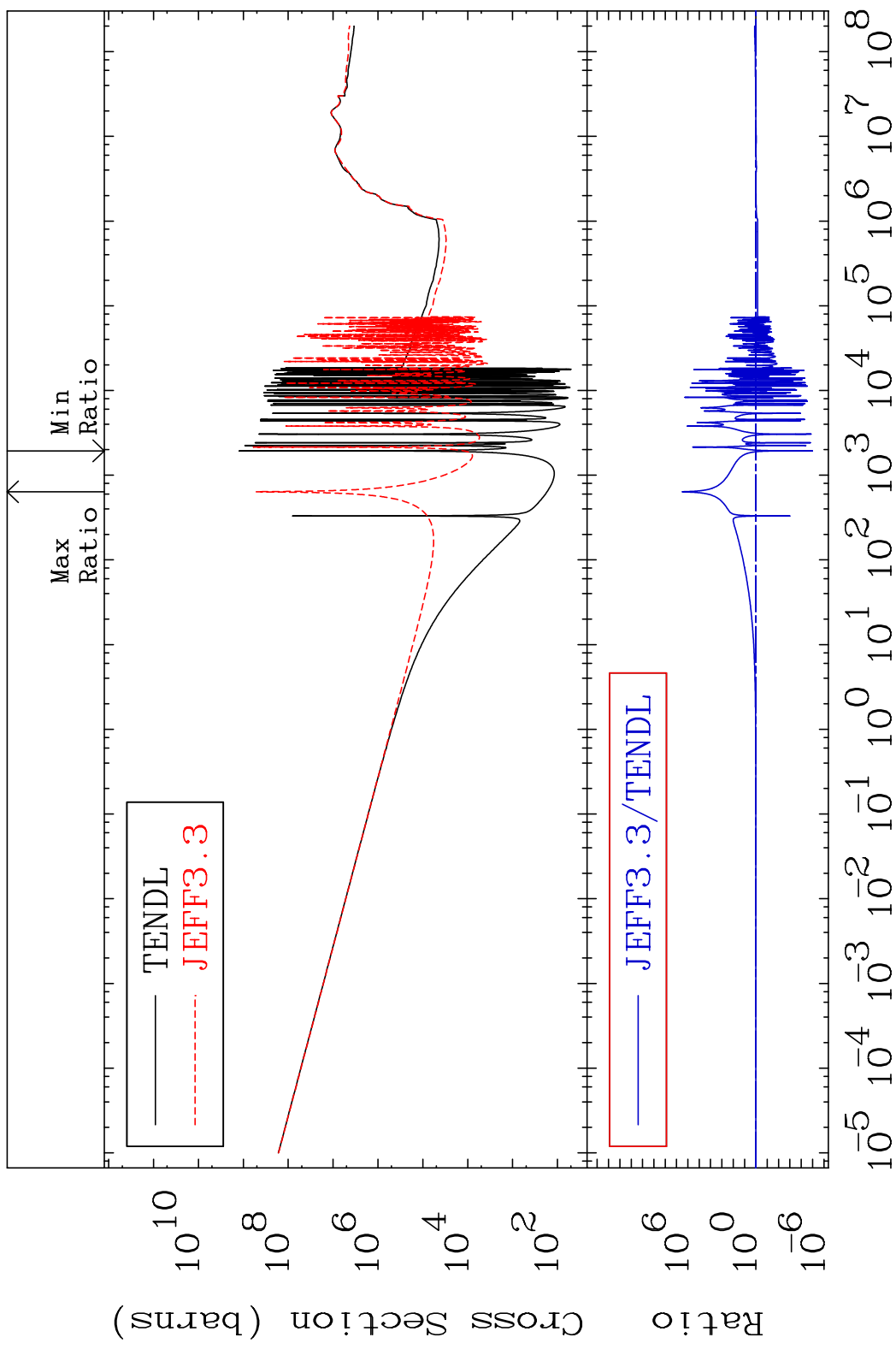
70 Incident Energy (eV) 38-Sr-89

MAT 3840

Total photon (eV-barns)

38-Sr-89

Cross Section -100.0 To 9999. %

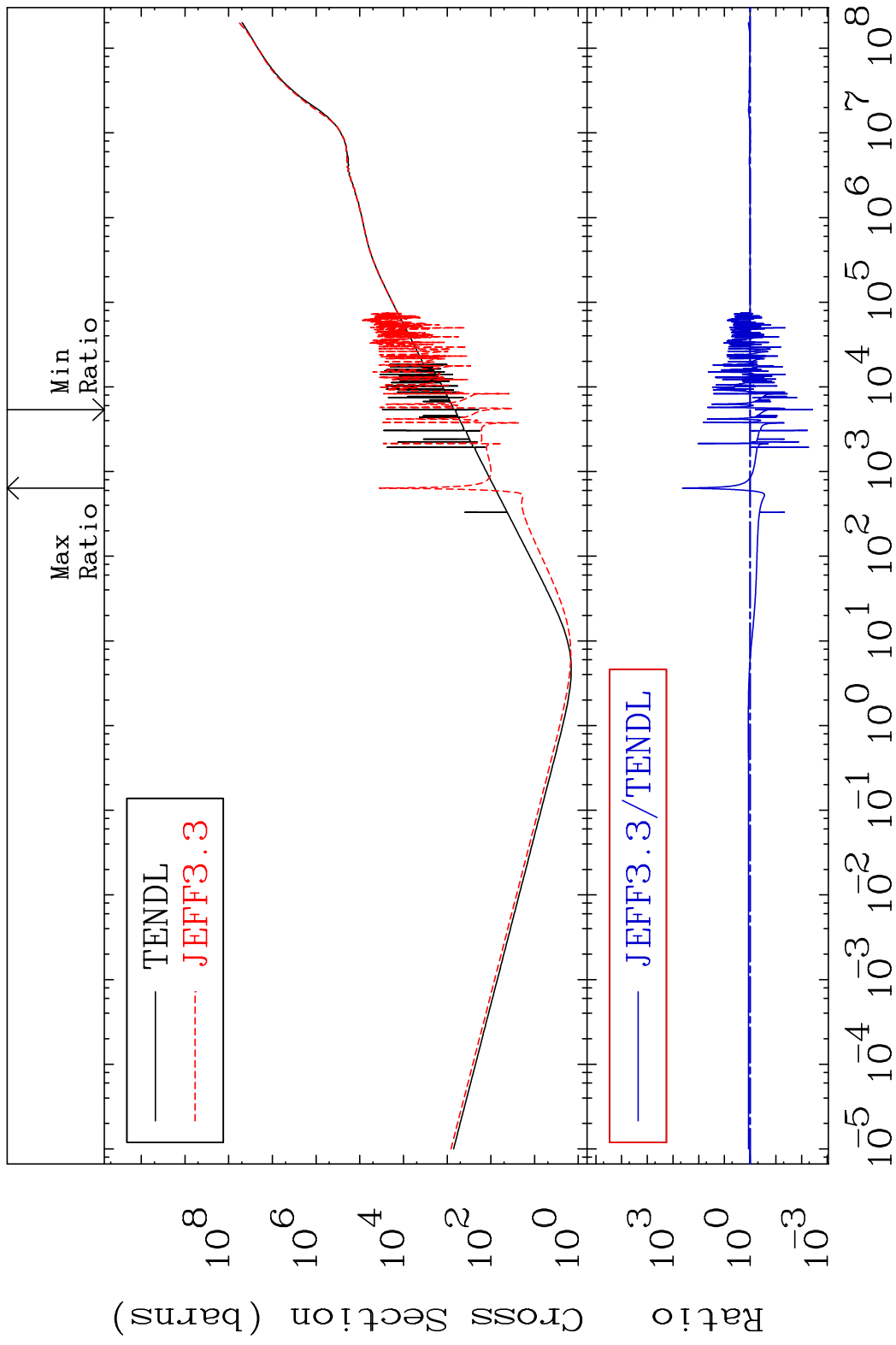


71

Incident Energy (eV)

38-Sr-89

MAT 3840 Total kinematic kerma (high limit) 38-Sr-89
 Cross Section -99.63 To 9999. %

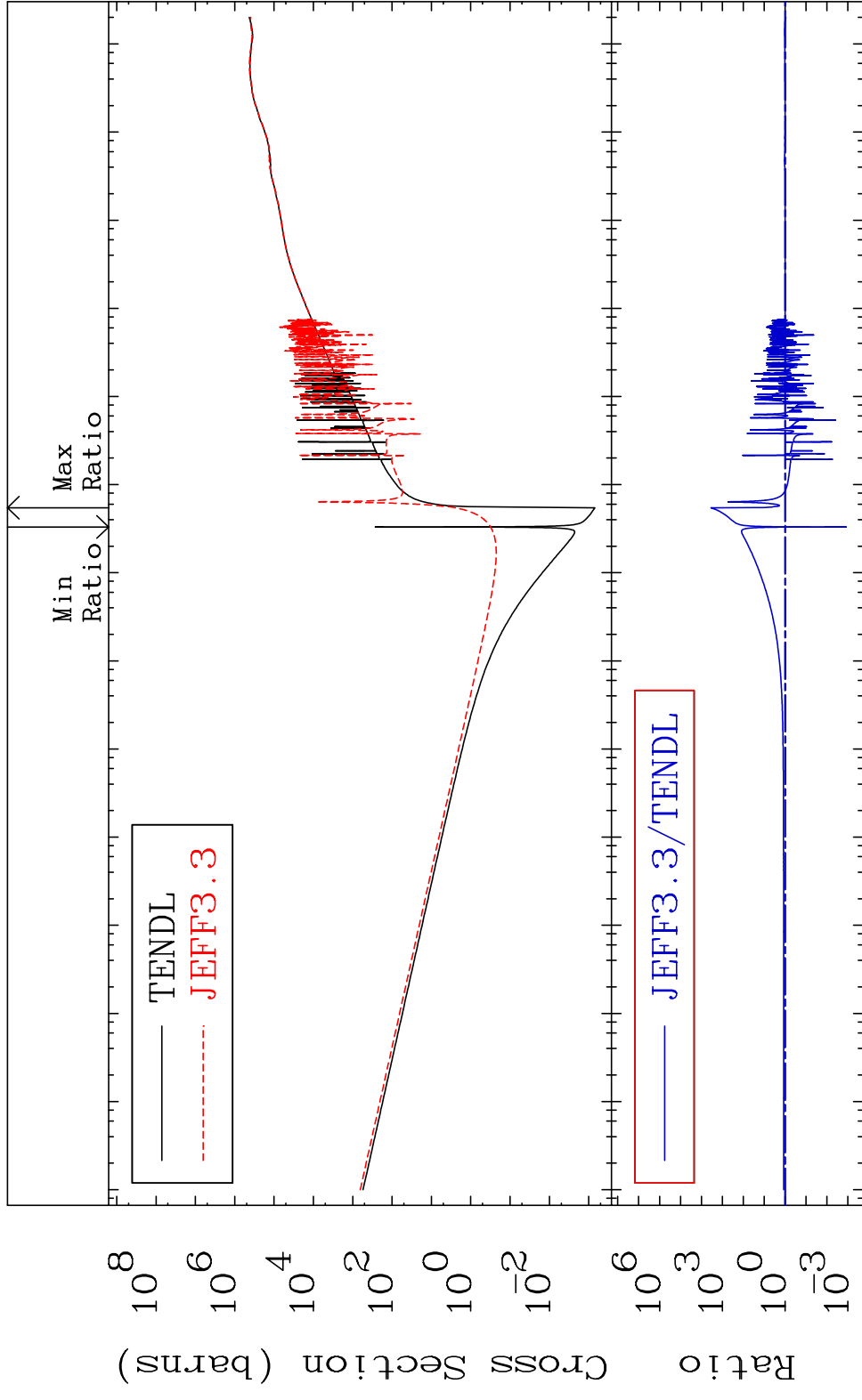


MAT 3840

Dpa total (eV-barns)

38-Sr-89

Cross Section -99.88 To 9999. %



73

Incident Energy (eV)

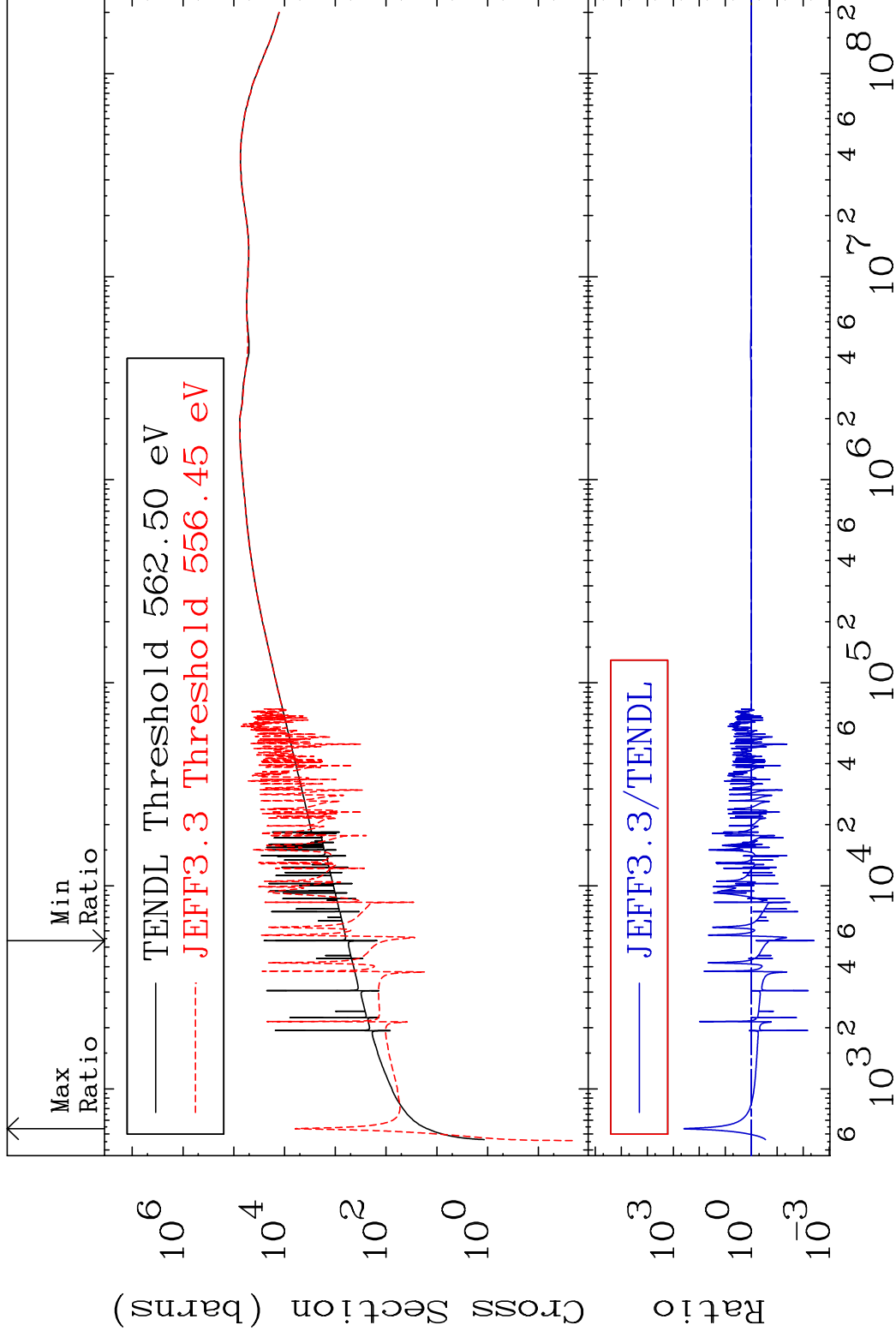
38-Sr-89

MAT 3840

Dpa elastic (mt2)

38-Sr-89

Cross Section -99.62 To 9999. %



74

Incident Energy (eV)

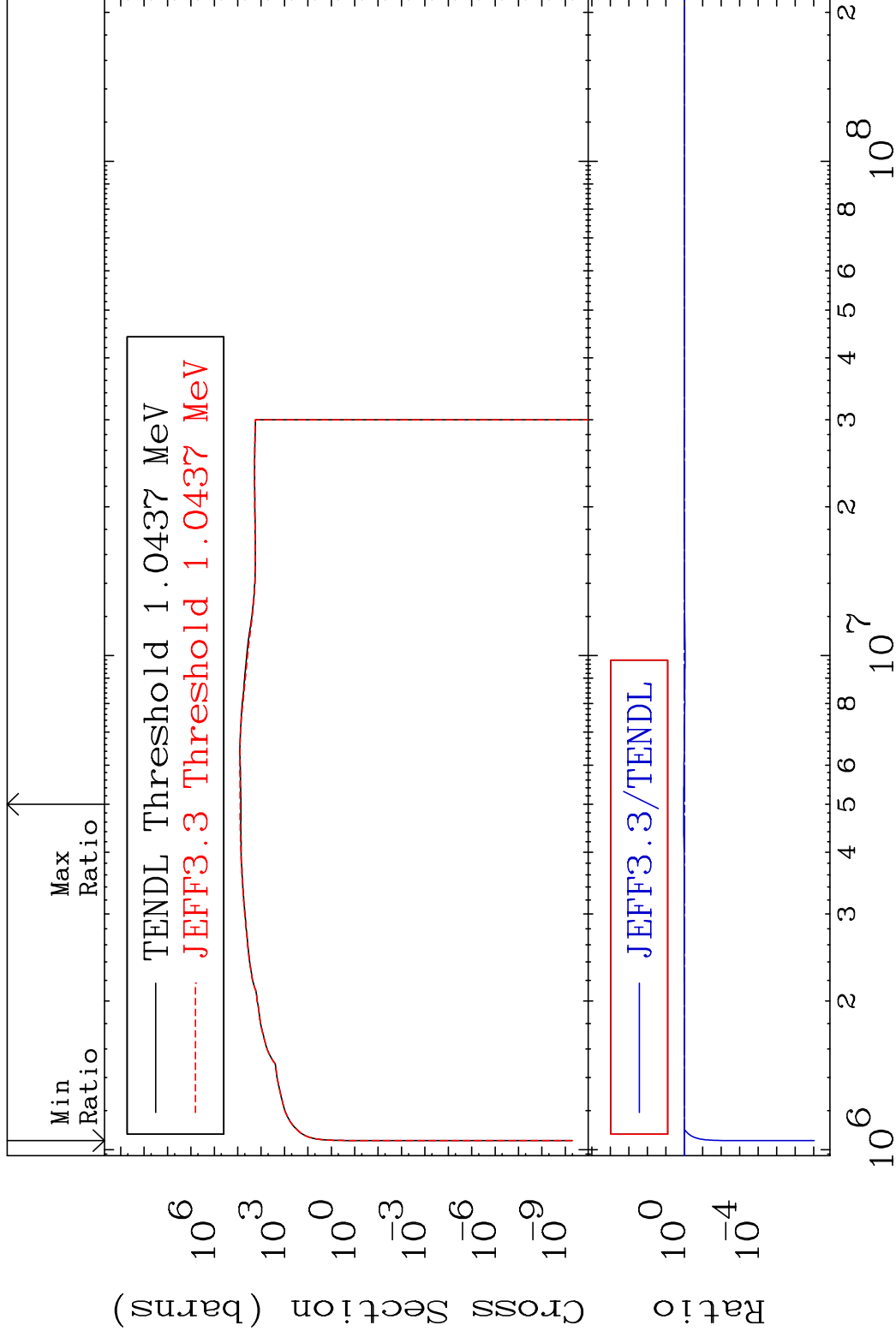
38-Sr-89

MAT 3840

Dpa inelastic (mt51-91)

38-Sr-89

Cross Section -100.0 To 7.984 %

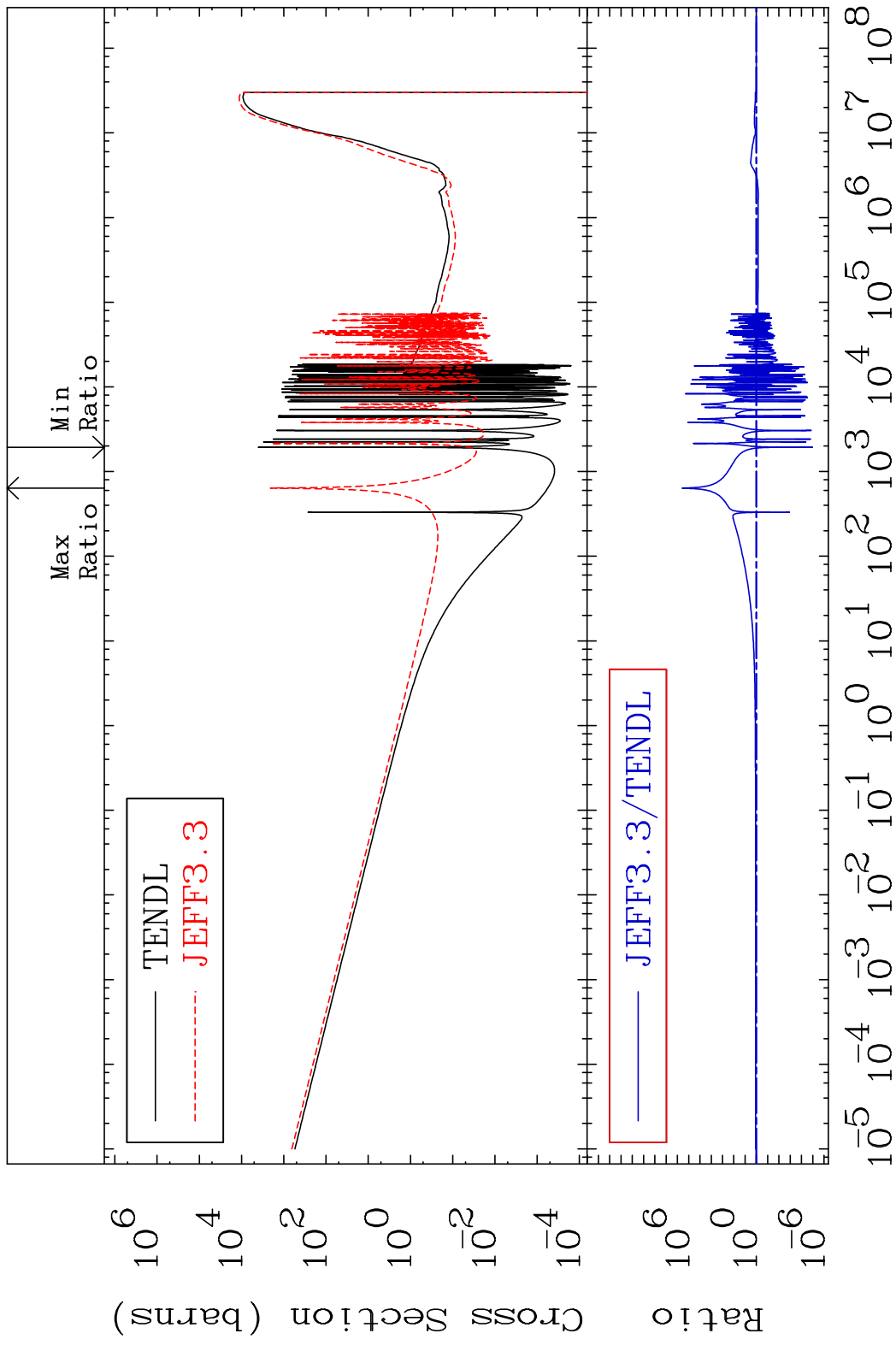


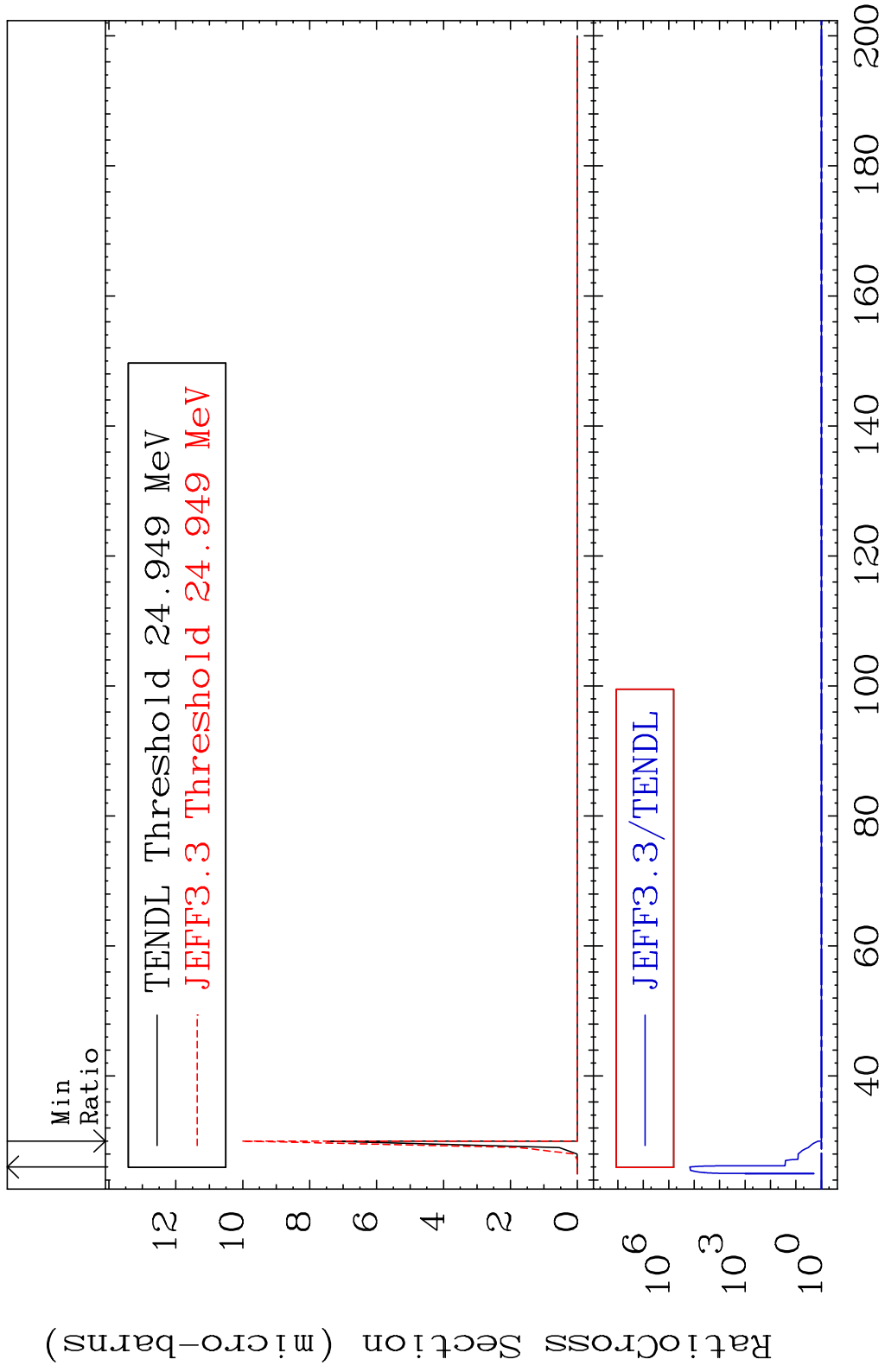
75

Incident Energy (eV)

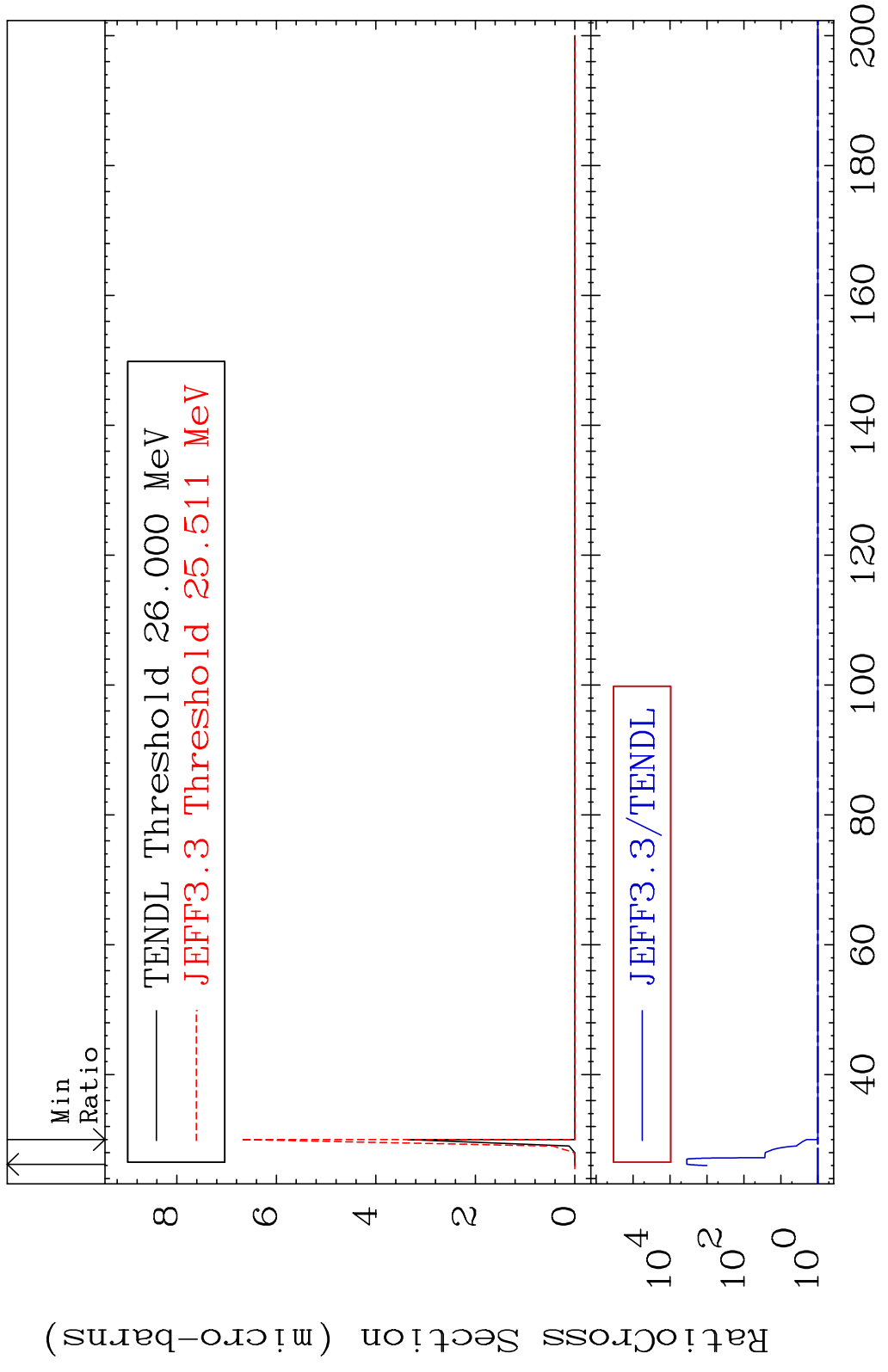
38-Sr-89

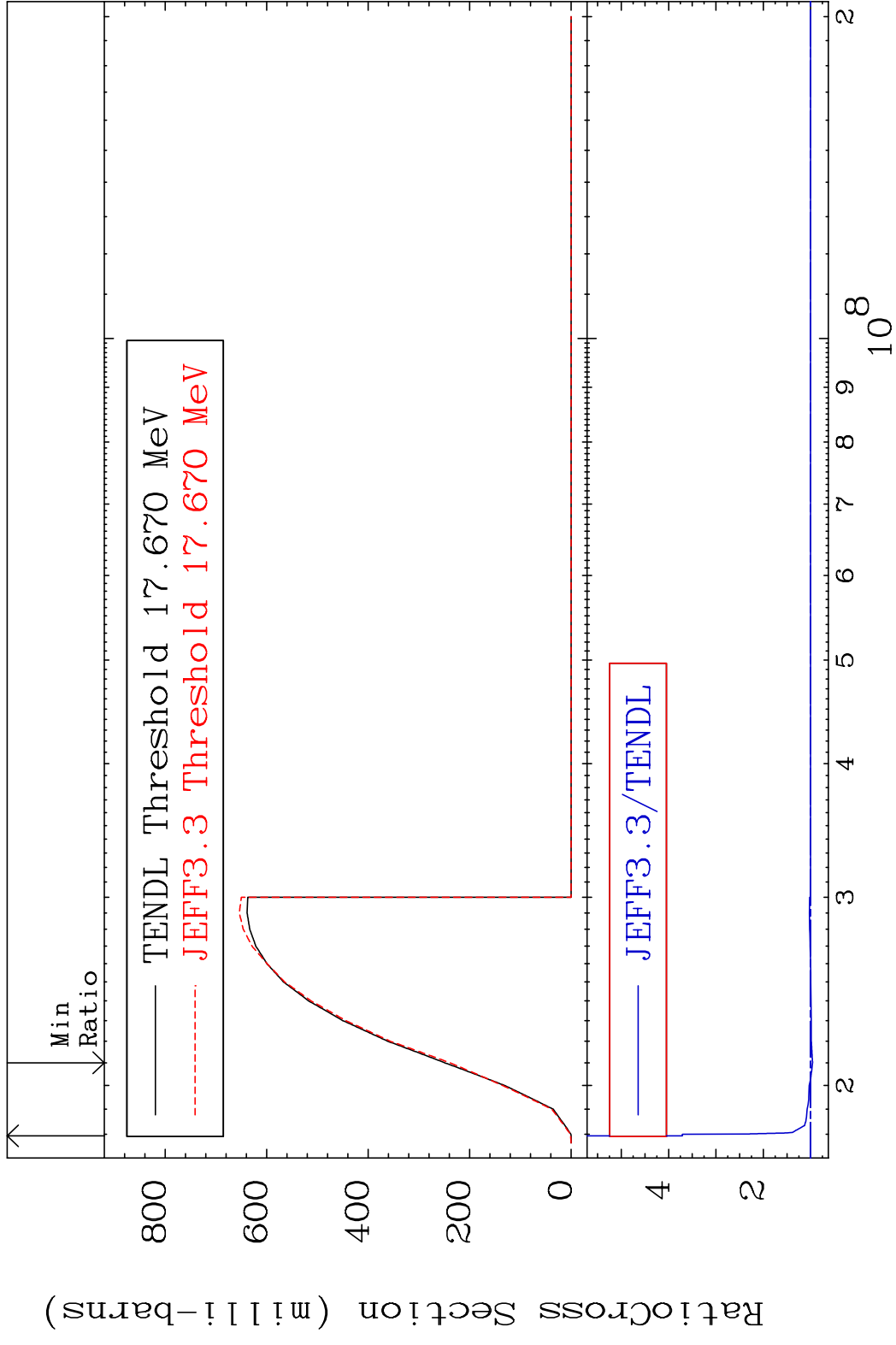
MAT 3840 Dpa disappearance (mt102 -120) 38-Sr-89
 Cross Section -100.0 To 9999. %



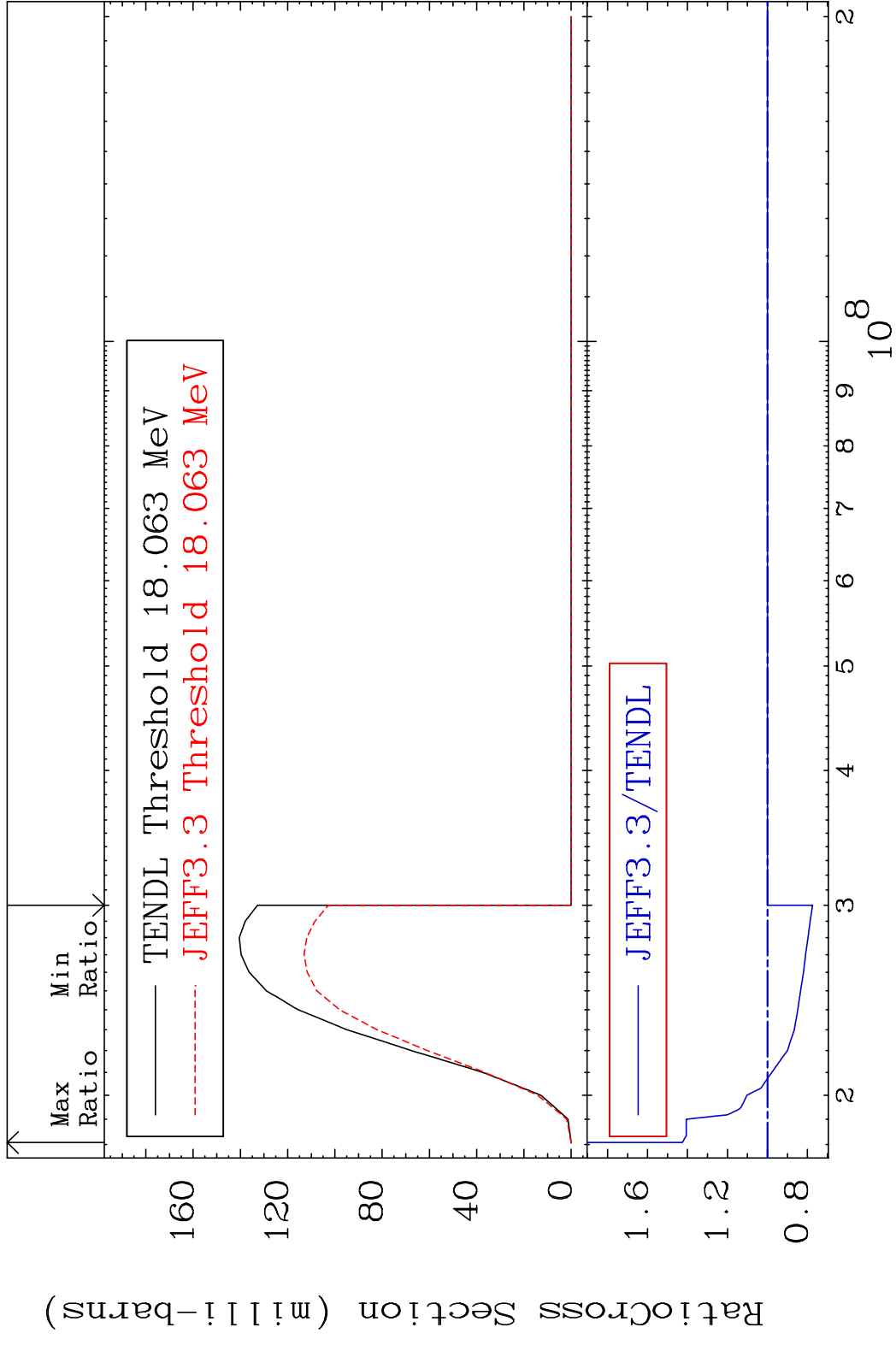


MAT 3840 (n,2n) d:37-Rb-86m2 38-Sr-89
 Radionuclide Production Cross Section 9999. %



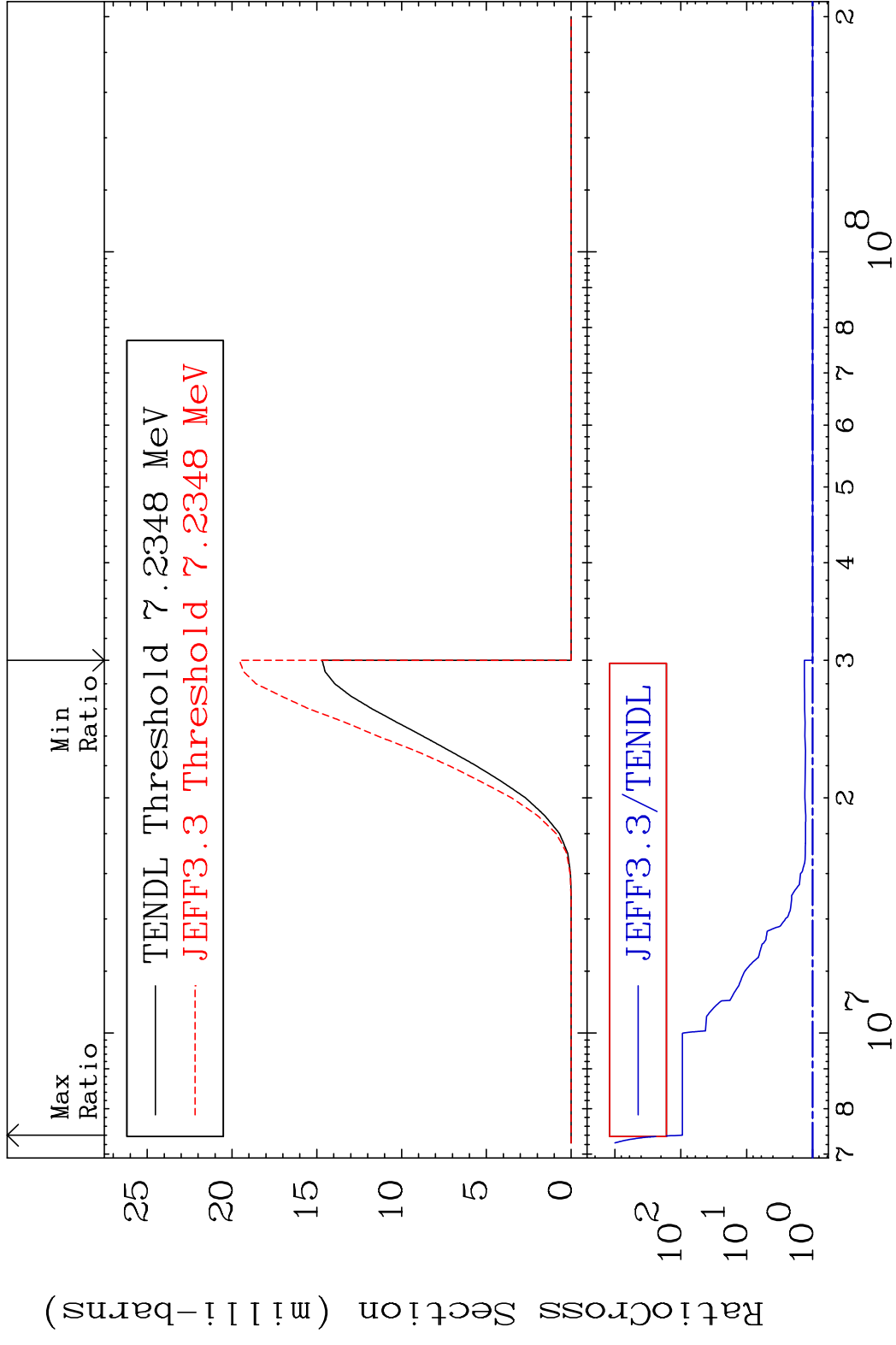


MAT 3840 (n,3n):38-Sr-87m1 38-Sr-89
 Radionuclide Production Cross Section 42.58 %

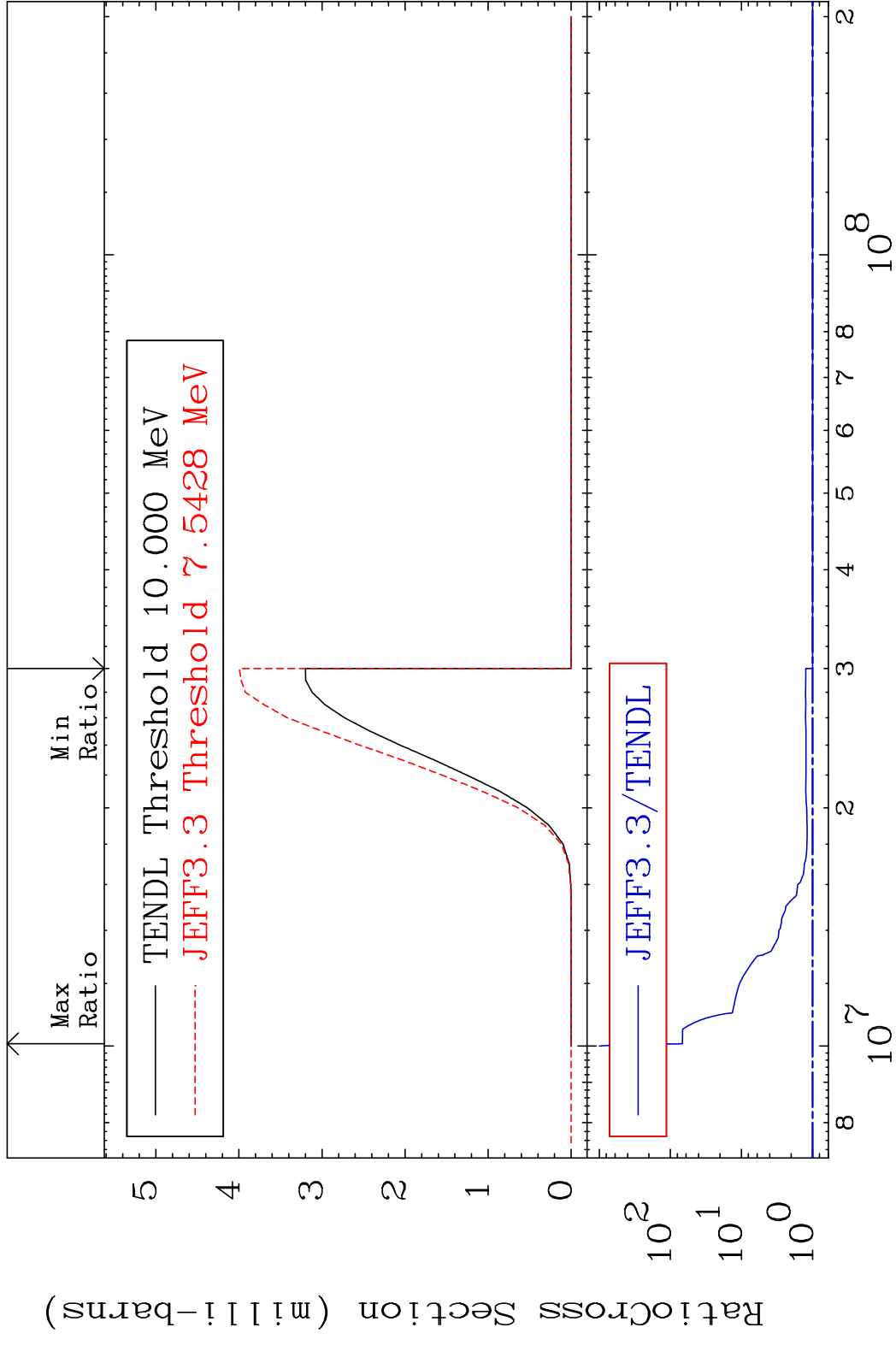


80 Incident Energy (eV) 38-Sr-89

MAT 3840 (n, n') α :36-Kr-85g 38-Sr-89
 Radionuclide Production Cross Section 9366. %



MAT 3840 (n, n') α :36-Kr-85m1 38-Sr-89
 Radionuclide Production Cross Section 6685. %



82 Incident Energy (eV) 38-Sr-89

MAT 3840 (n, n') t:37-Rb-86g 38-Sr-89
 Radionuclide Production Cross Section 800.3 %

