

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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U.S.A.

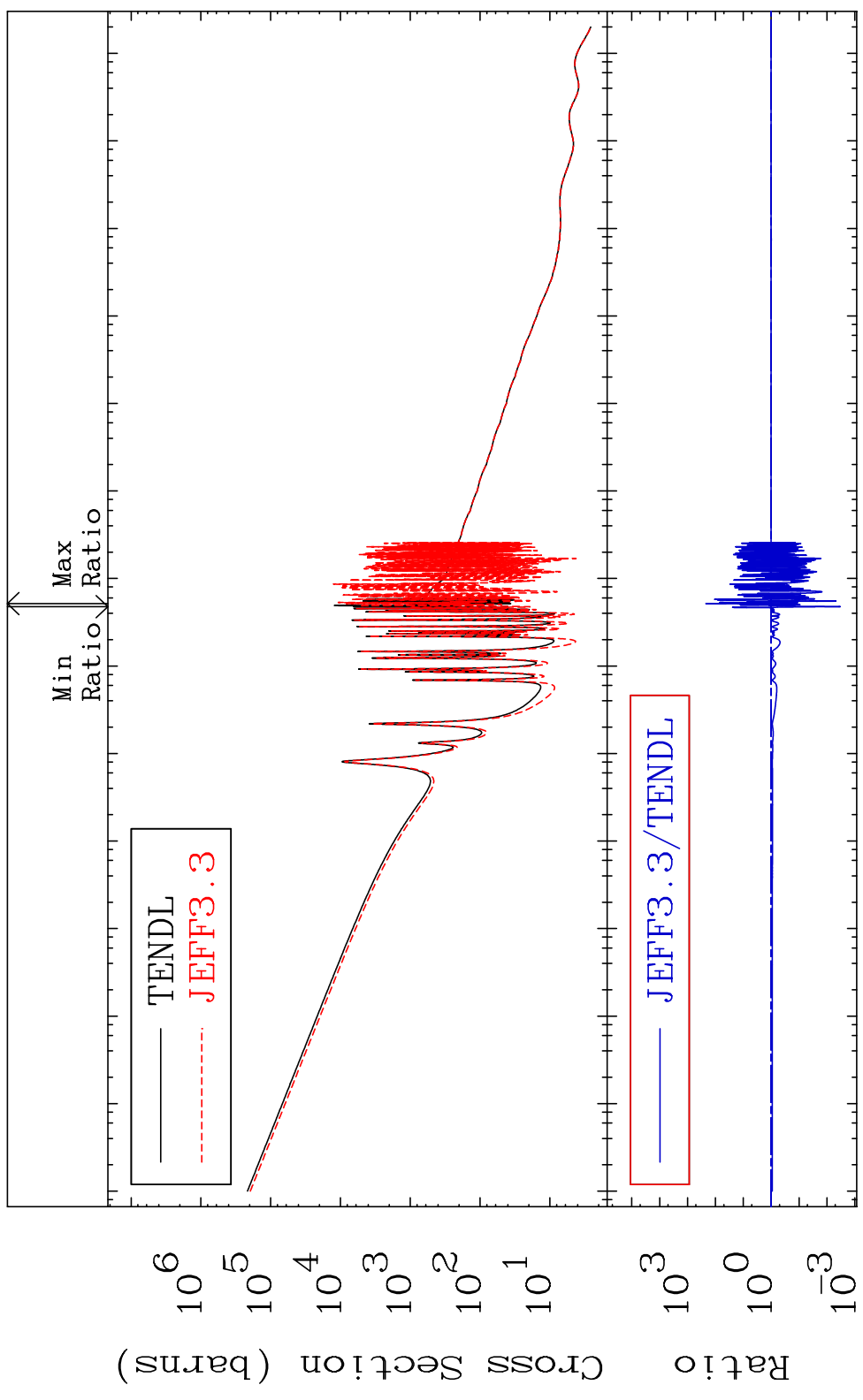
Tele: 925-443-1911

E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7028

Total
Cross Section -99.67 To 9999. %



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

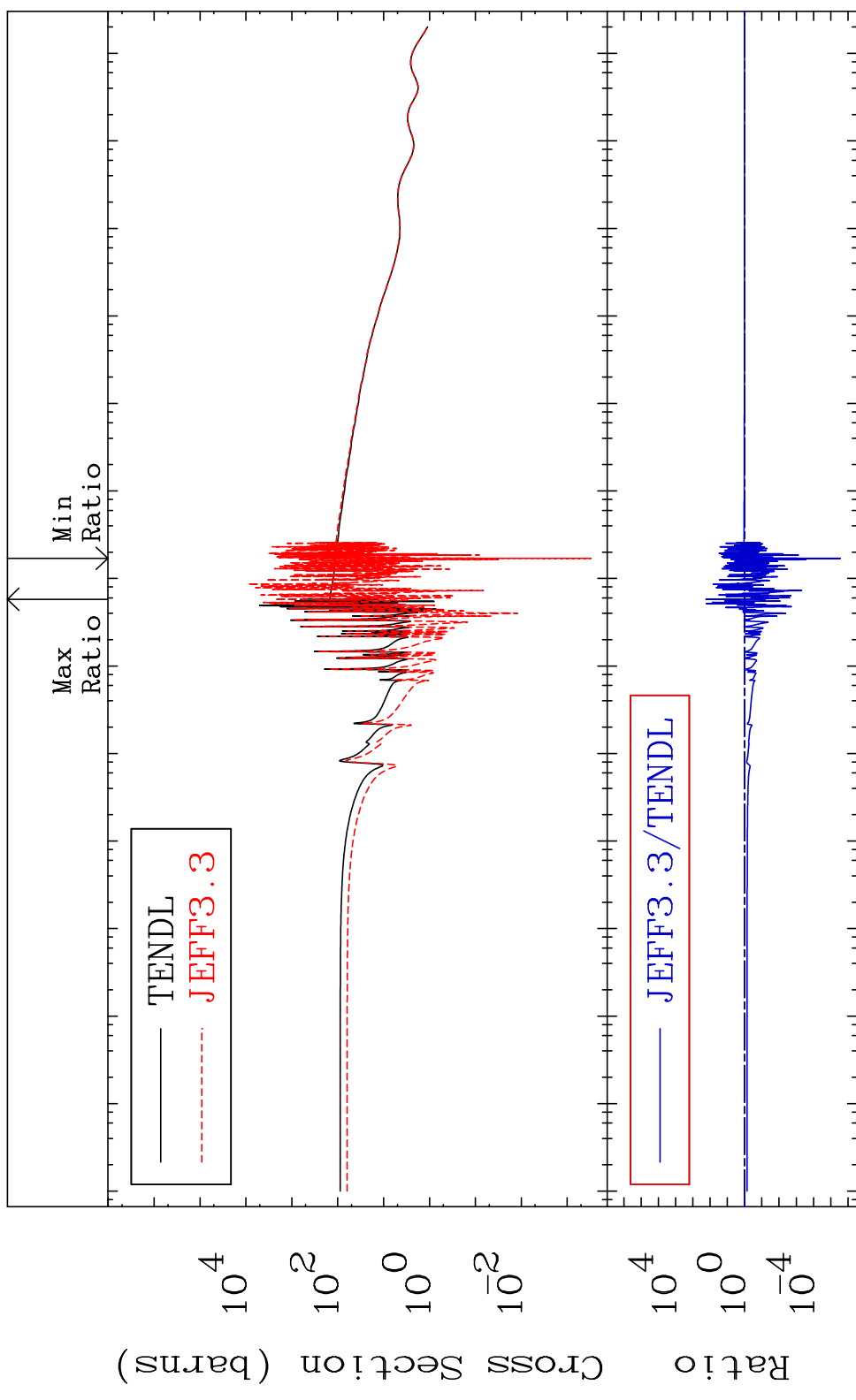
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

Incident Energy (eV)

70-Yb-169

MAT 7028

Elastic Cross Section -100.0 To 9999. %
70-Yb-169



2

Incident Energy (eV) 70-Yb-169

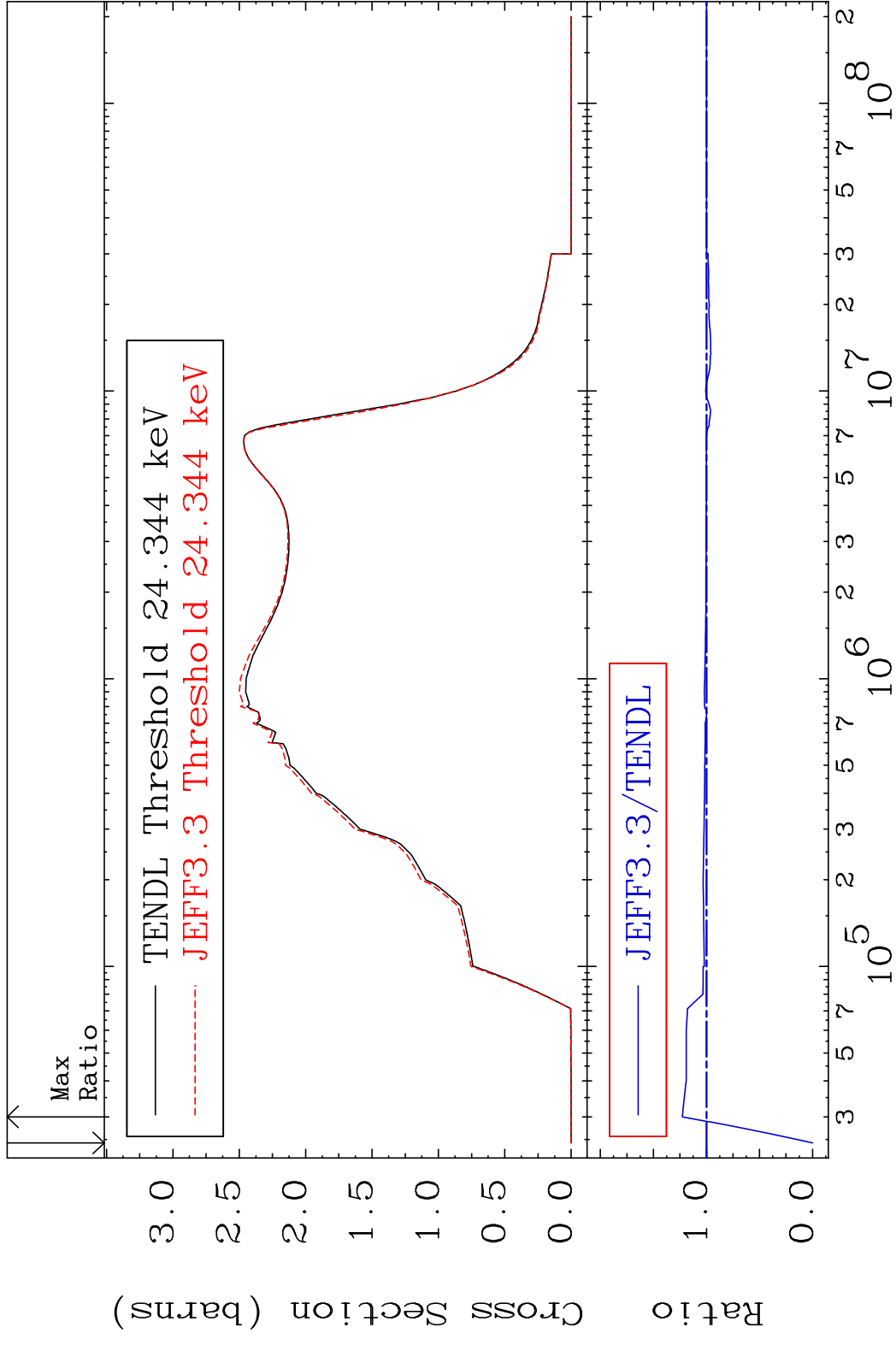
MAT 7028

Inelastic

70-Yb-169

Cross Section

-100.0 To 22.72 %



3

Incident Energy (eV)

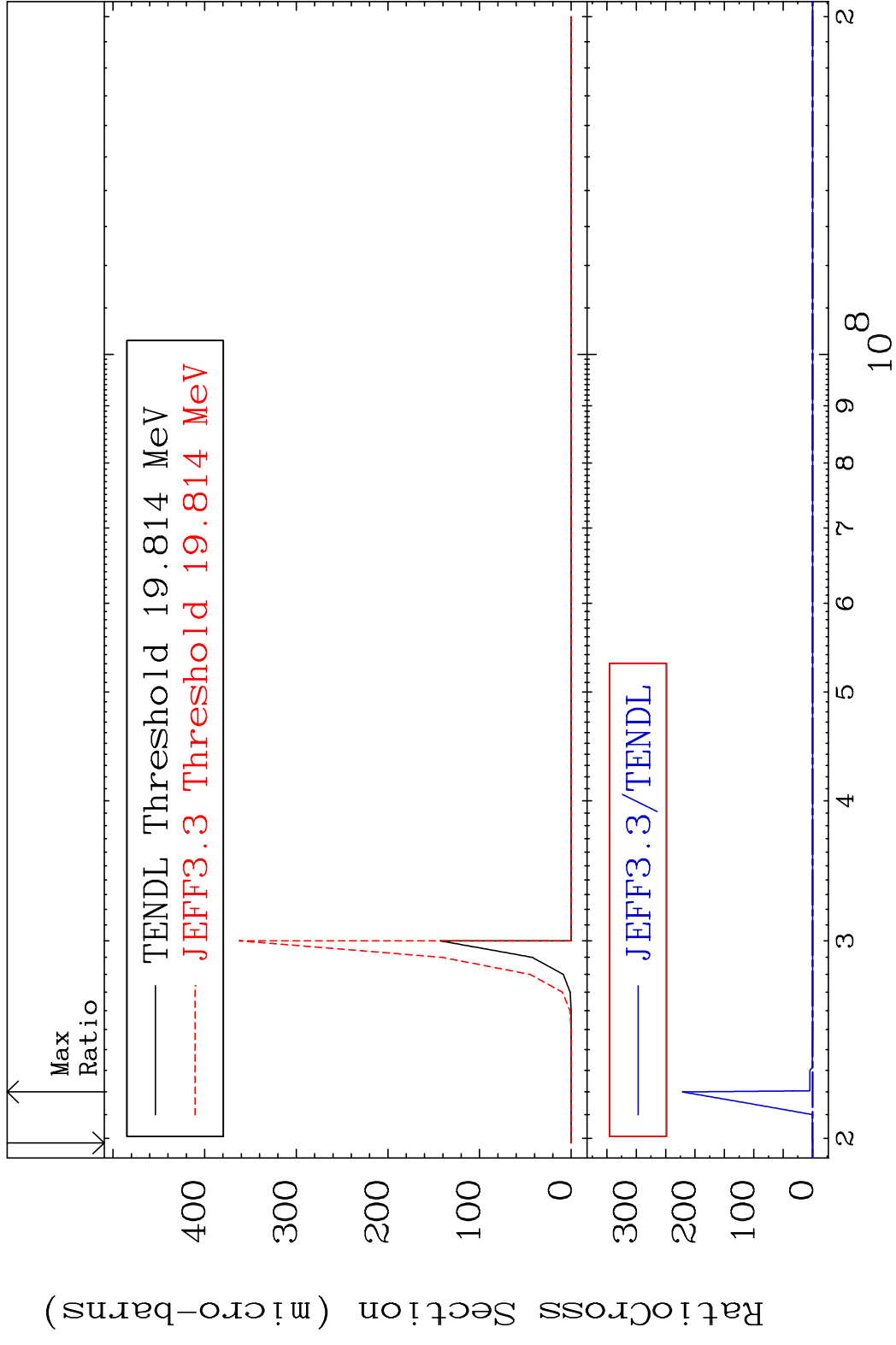
70-Yb-169

MAT 7028

(n,2n) d

70-Yb-169

Cross Section -100.0 To 9999. %



70-Yb-169

Incident Energy (eV)

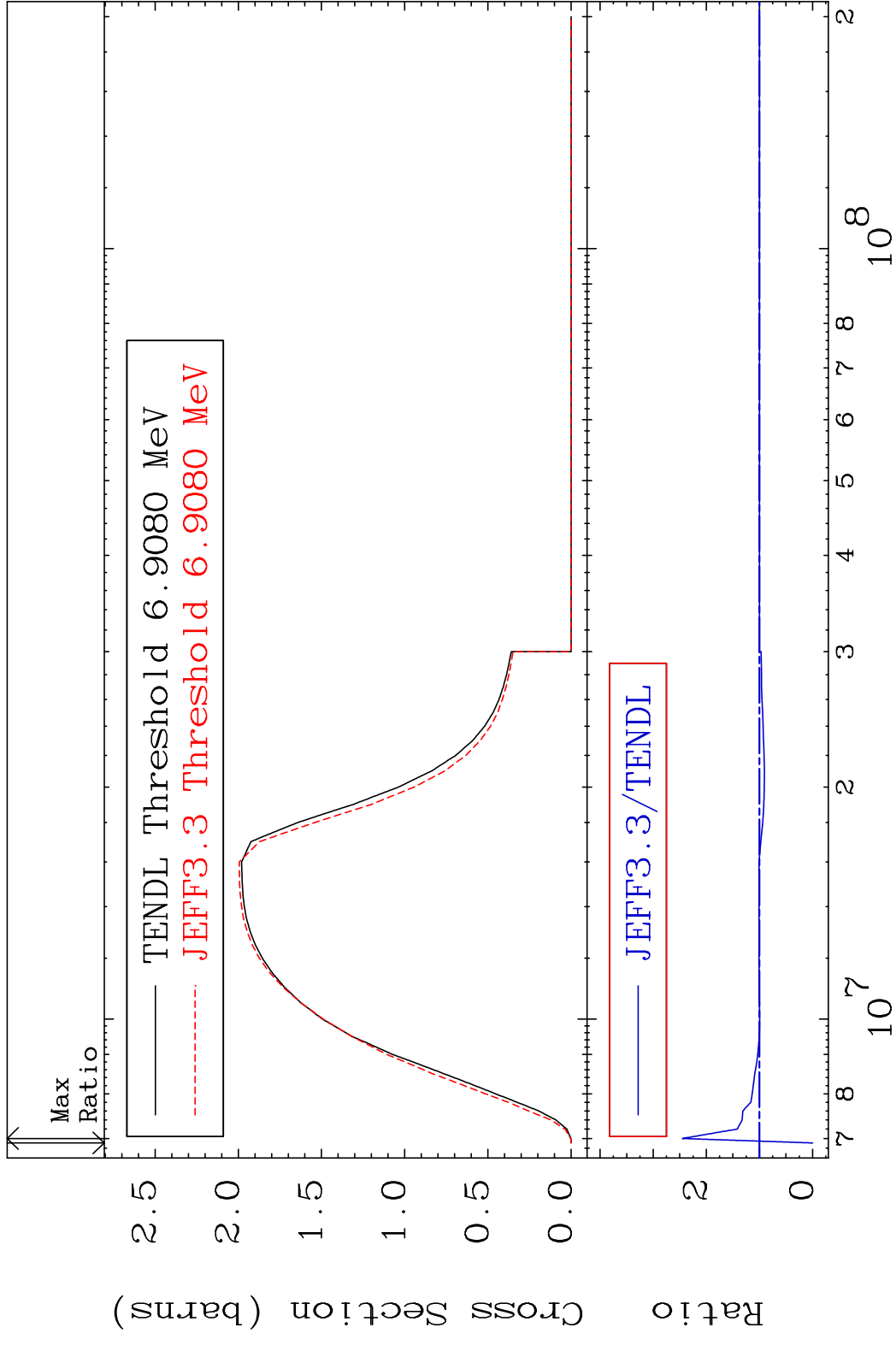
MAT 7028

MAT 7028

(n,2n)

70-Yb-169

Cross Section -100.0 To 145.1 %



5

Incident Energy (eV)

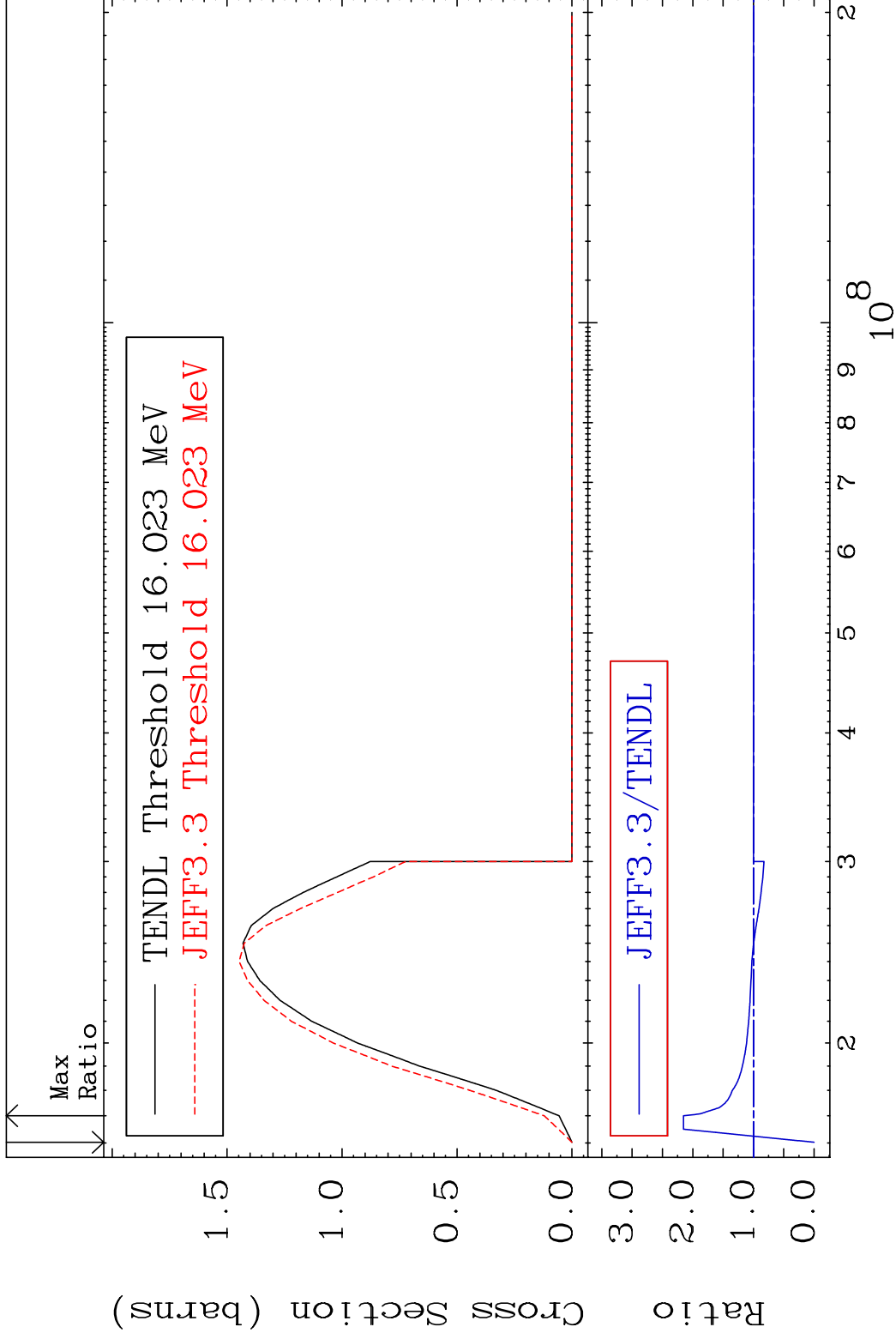
70-Yb-169

MAT 7028

(n,3n)

70-Yb-169

Cross Section -100.0 To 115.4 %

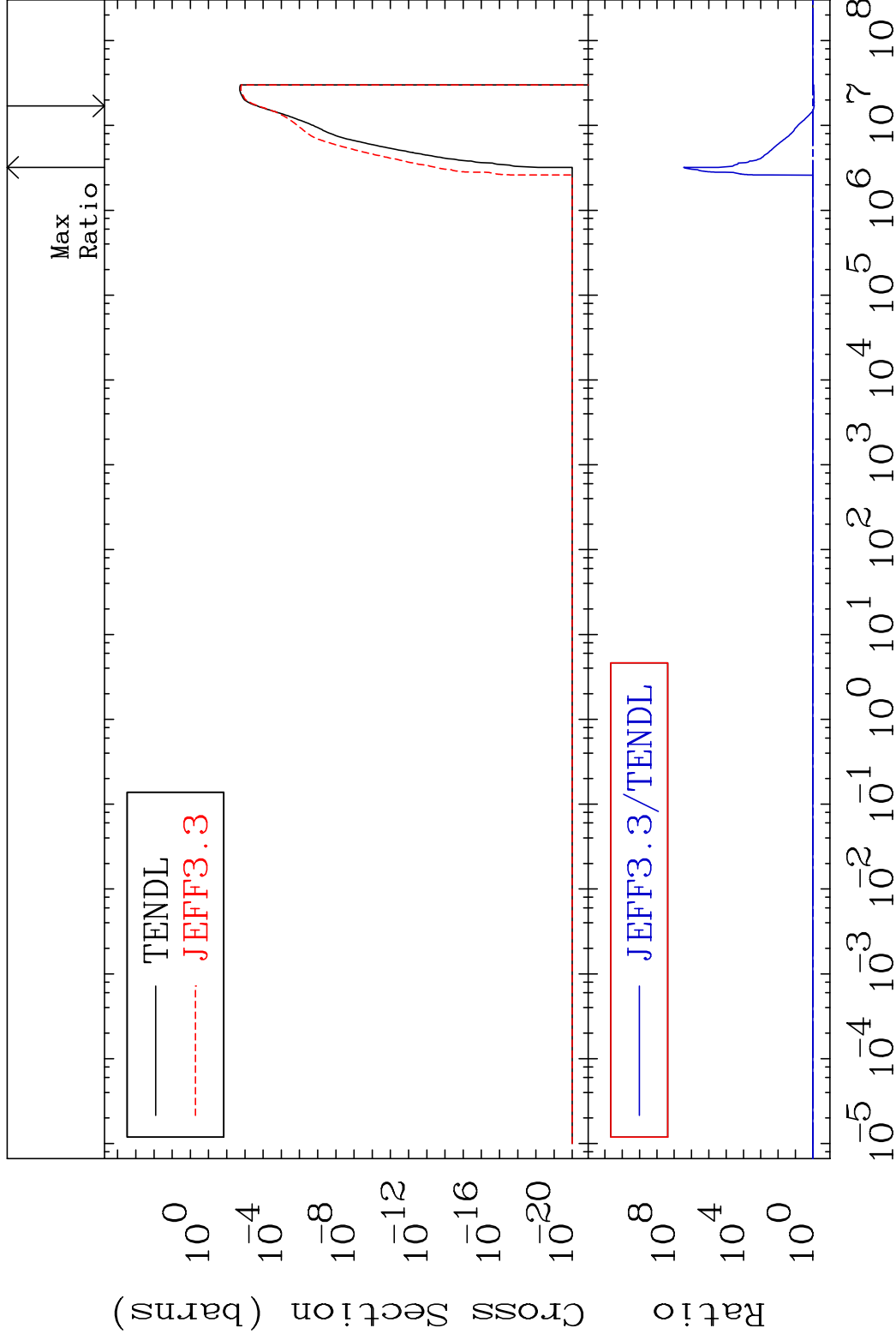


MAT 7028

(n, n') α

70-Yb-169

Cross Section -16.91 To 9999. %



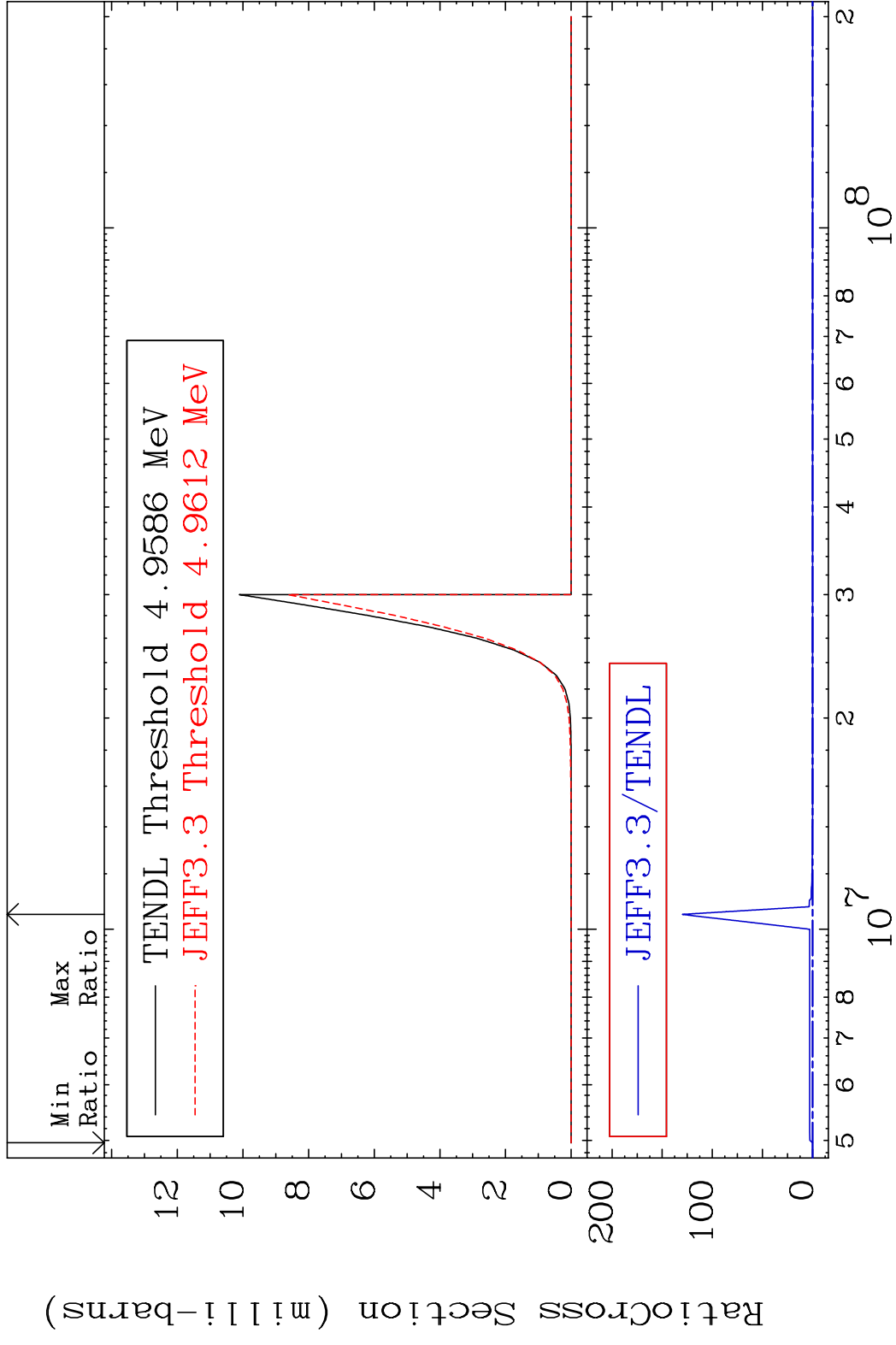
7

Incident Energy (eV)

70-Yb-169

MAT 7028

(n,2n) α 70-Yb-169
Cross Section -100.0 To 9999. %

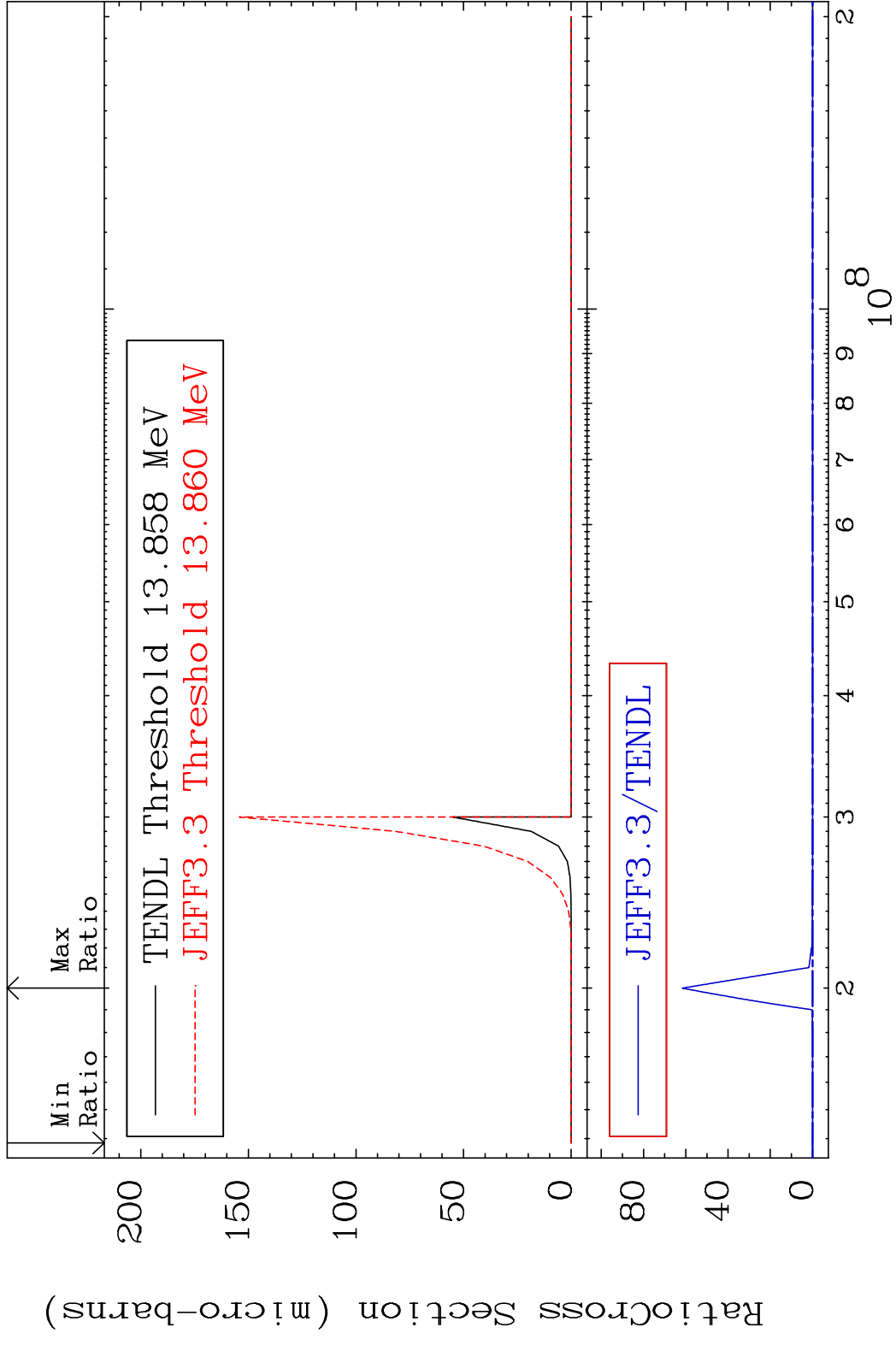


8

Incident Energy (eV)

70-Yb-169

MAT 7028 (n,3n) α 70-Yb-169
 Cross Section -100.0 To 9999. %

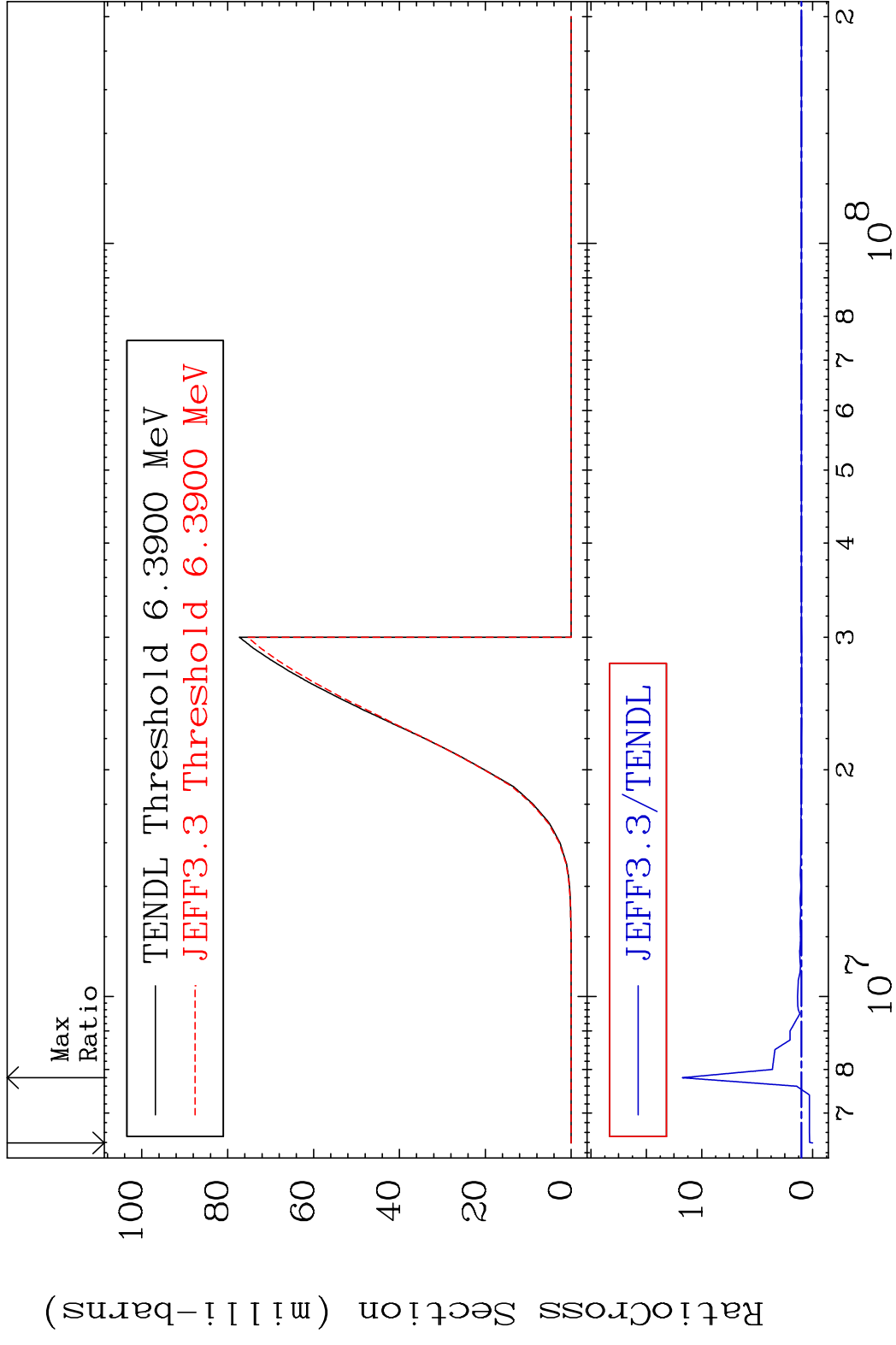


MAT 7028

(n, n') p

70-Yb-169

Cross Section -100.0 To 1075. %



10

Incident Energy (eV)

70-Yb-169

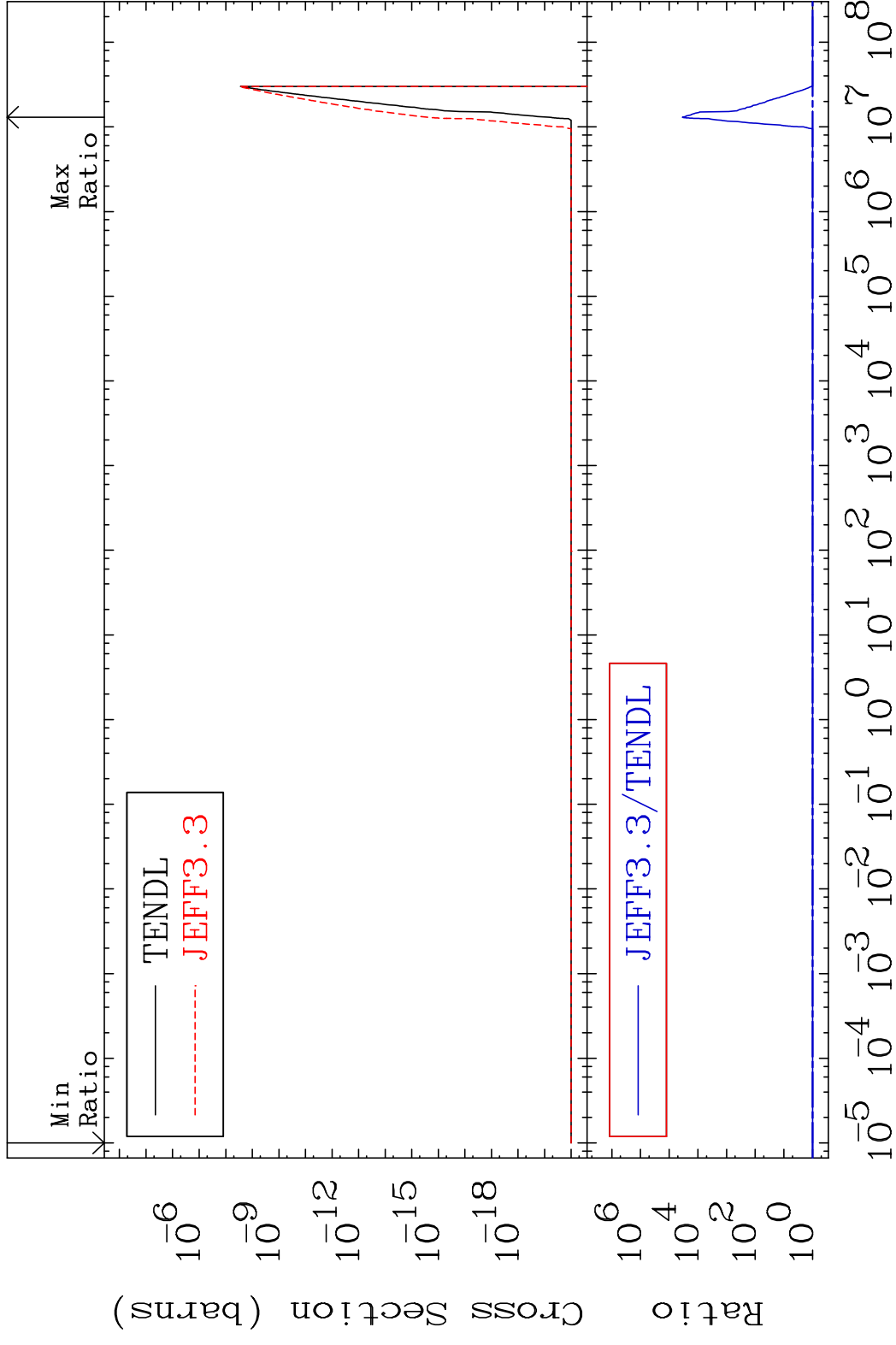
MAT 7028

(n, n') 2α

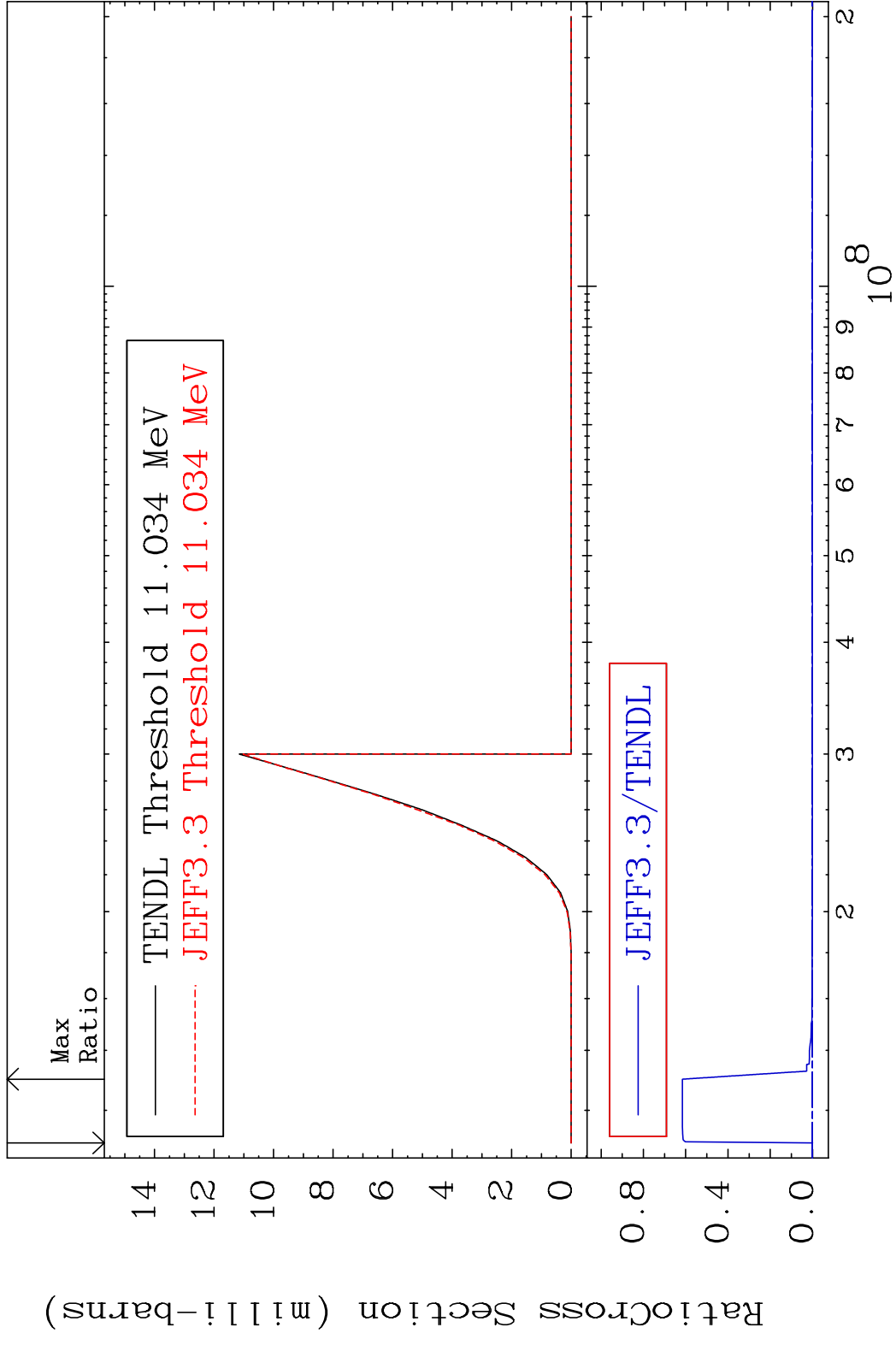
70-Yb-169

Cross Section 0.000

To 9999. %



MAT 7028 (n, n') d 70-Yb-169
 Cross Section -100.0 To 9999. %

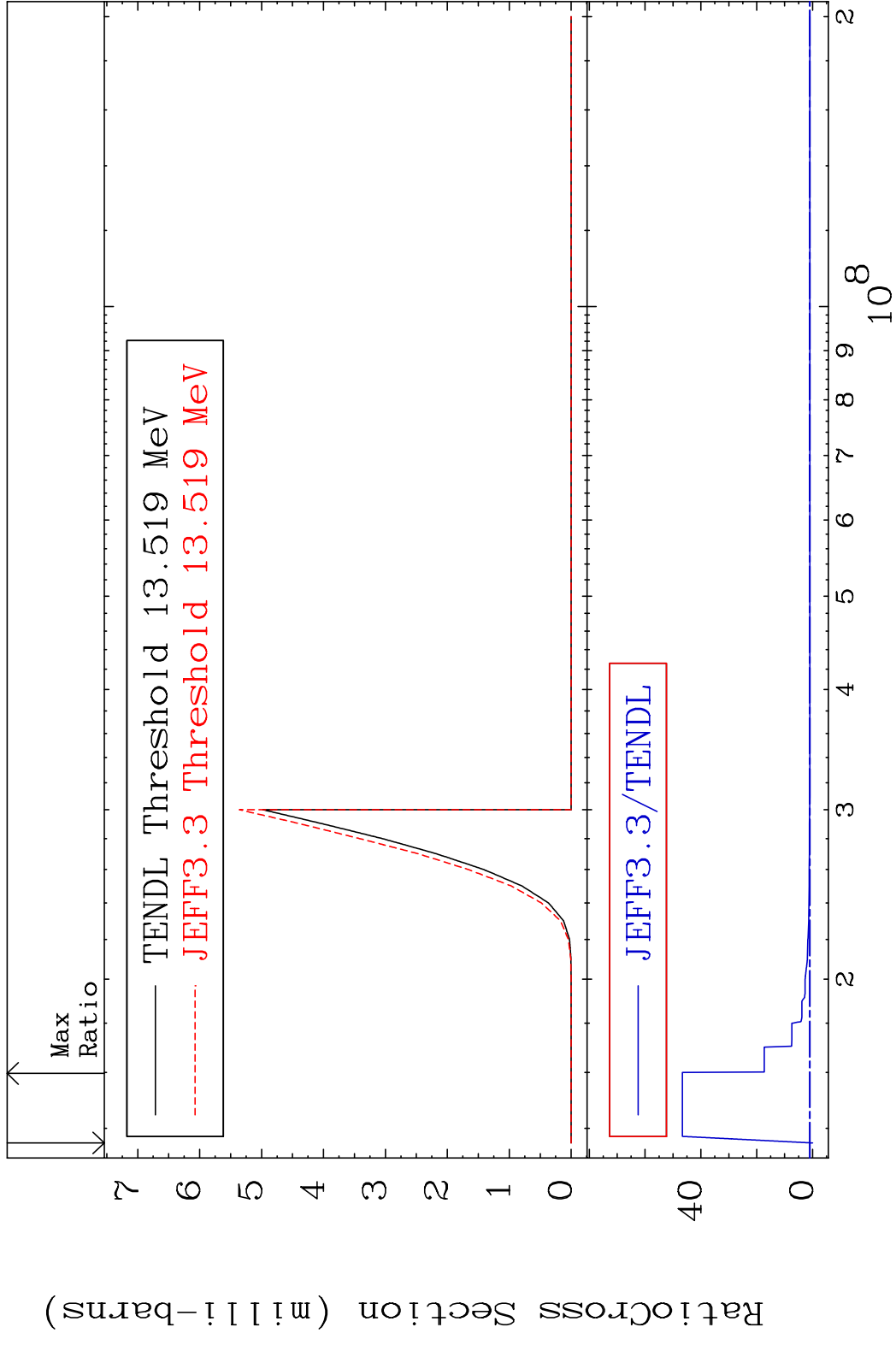


MAT 7028

(n, n') t

70-Yb-169

Cross Section -100.0 To 4565. %

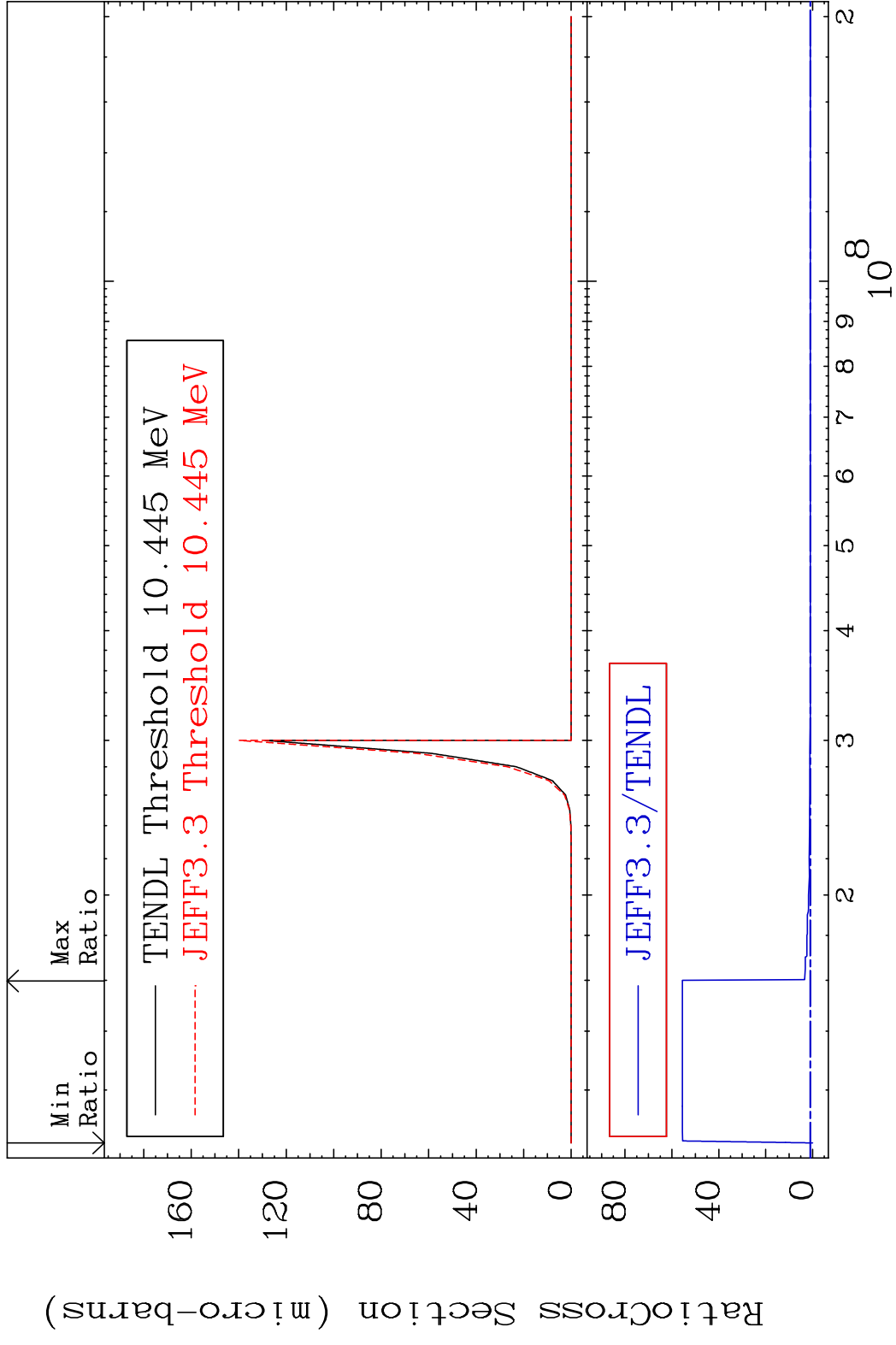


MAT 7028

(n,n') He-3

70-Yb-169

Cross Section -100.0 To 5454. %

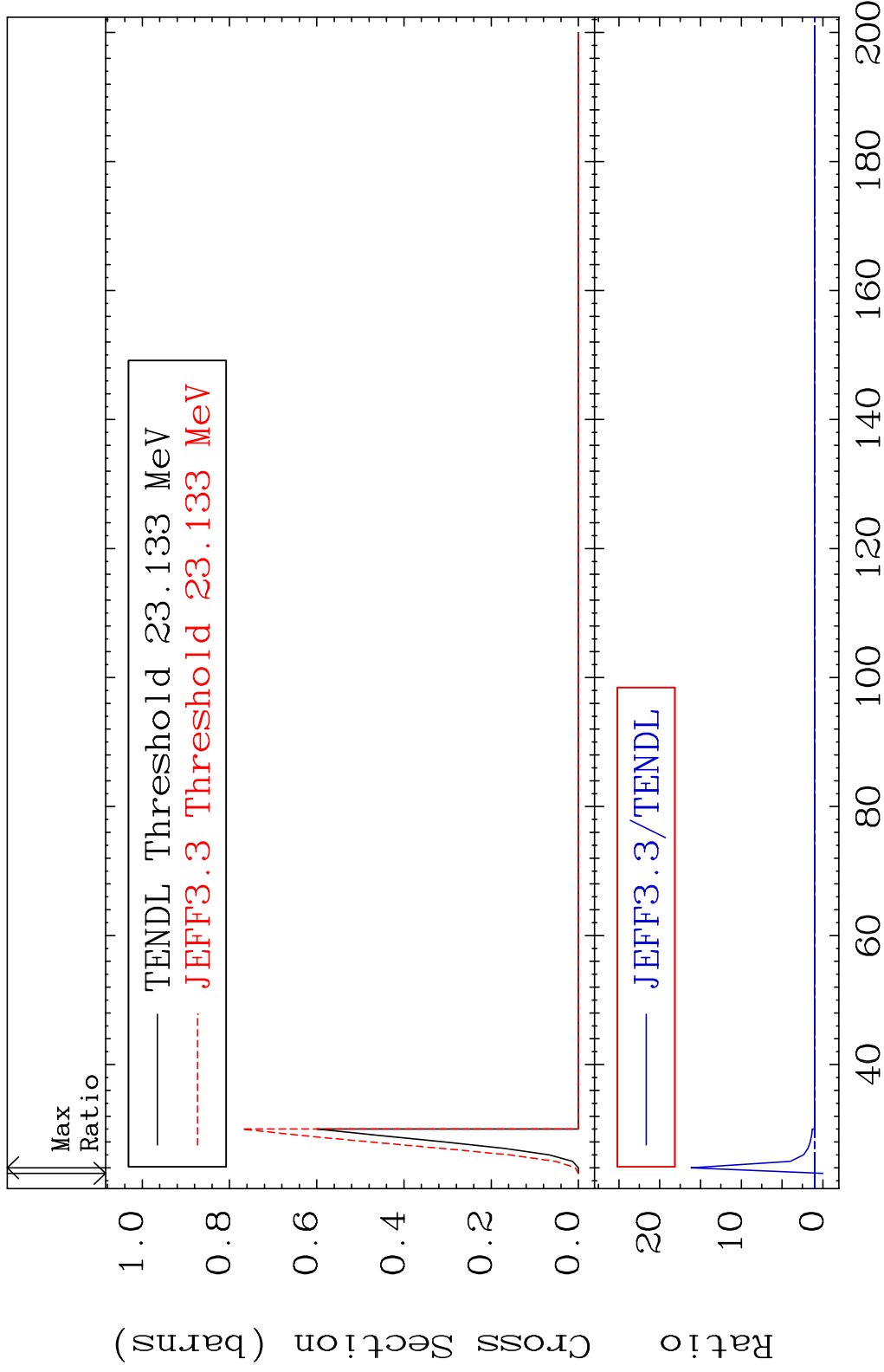


MAT 7028

(n,4n)

70-Yb-169

Cross Section -100.0 To 1516. %



15

Incident Energy (MeV)

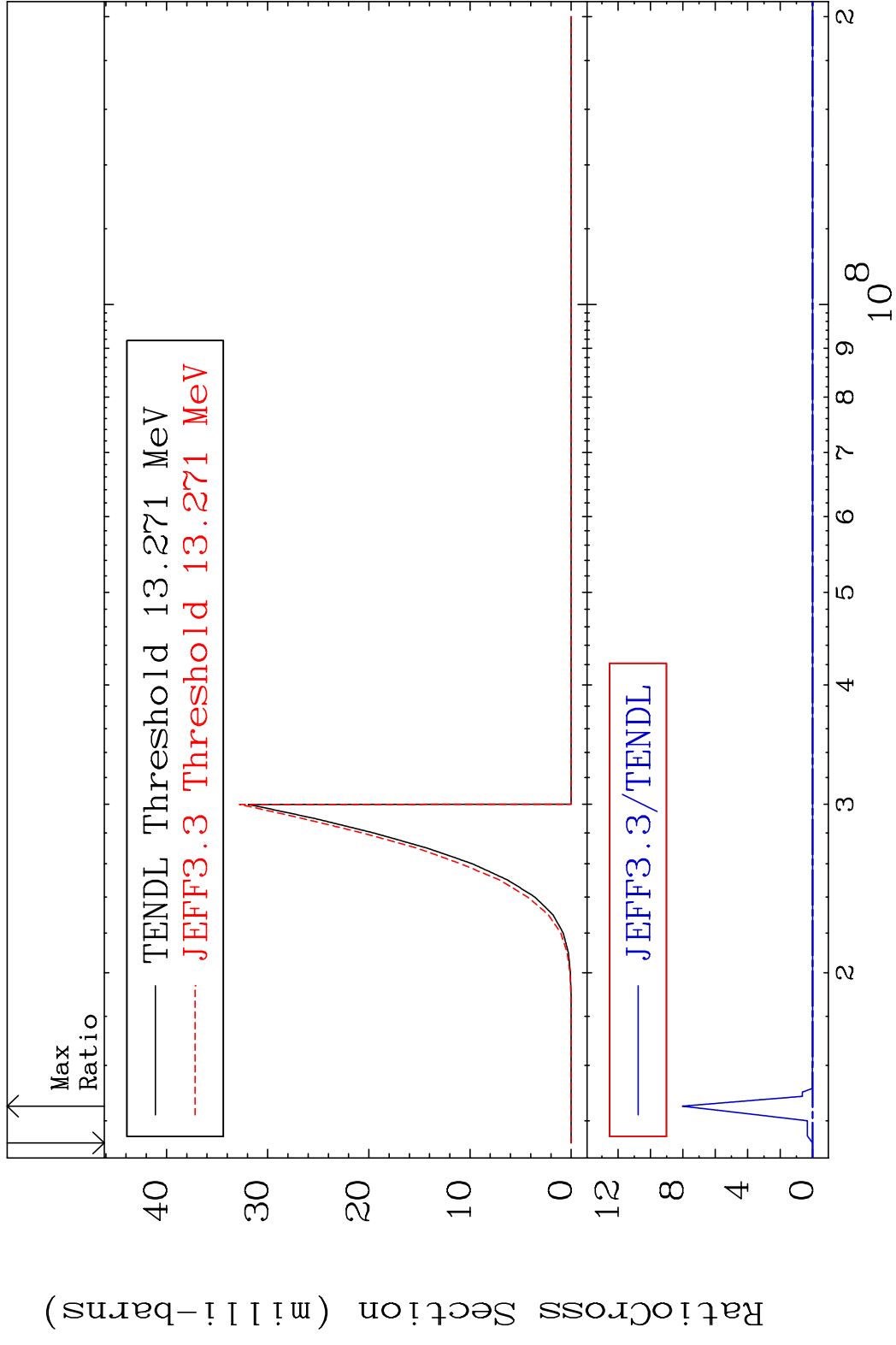
70-Yb-169

MAT 7028

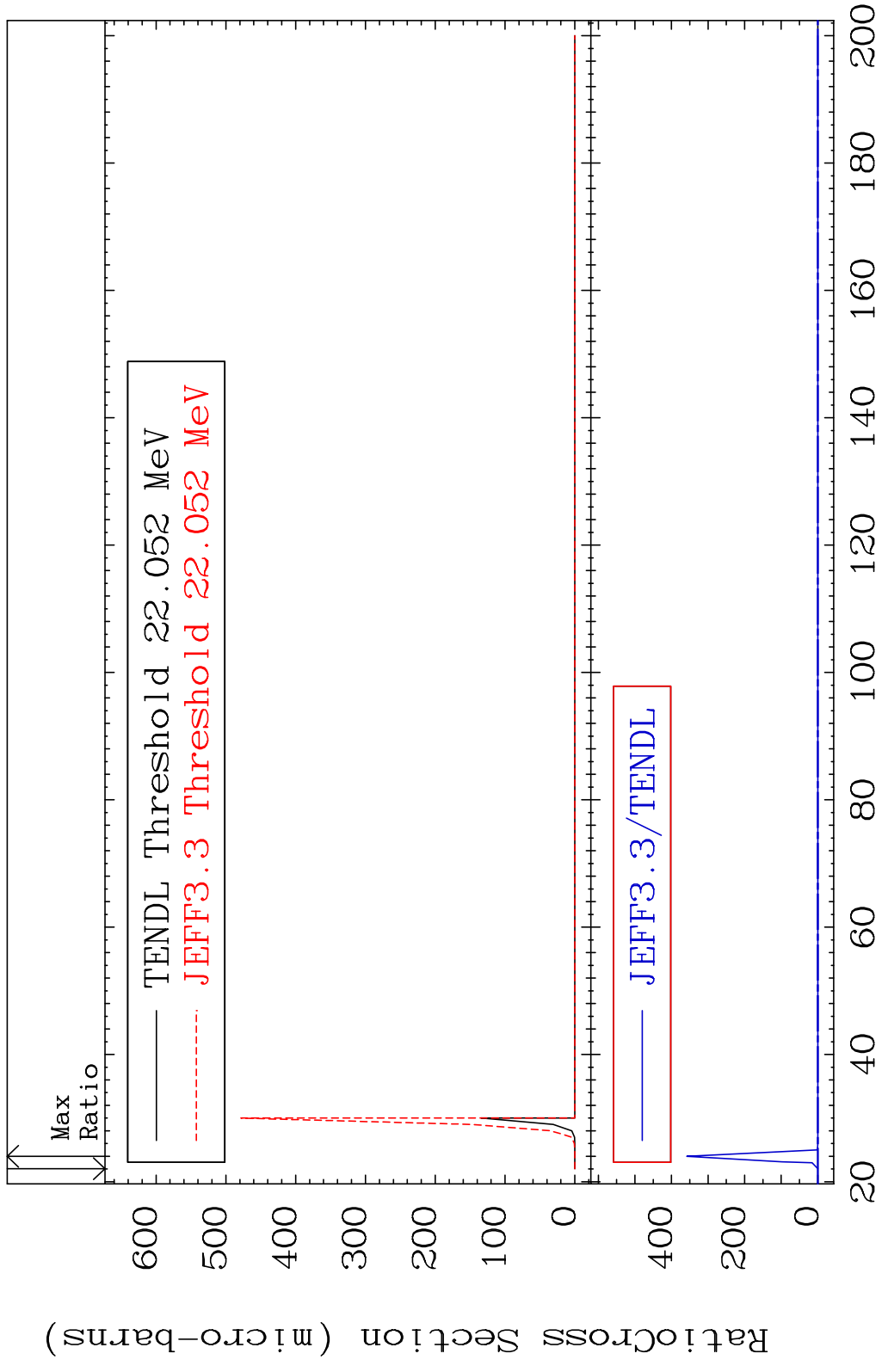
(n,2n) p

70-Yb-169

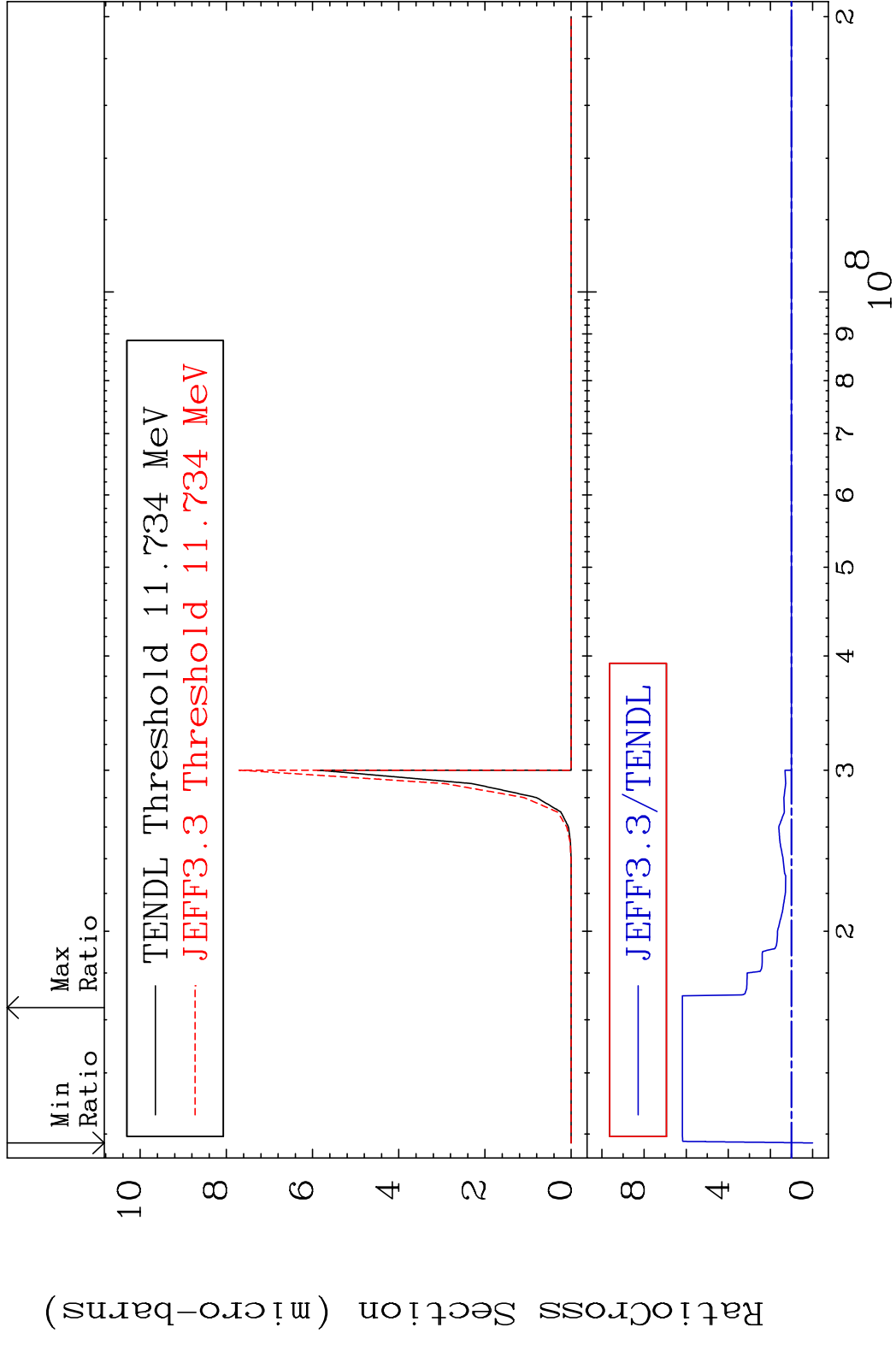
Cross Section -100.0 To 9999. %



MAT 7028 (n,3n) p 70-Yb-169
 Cross Section -100.0 To 9999. %

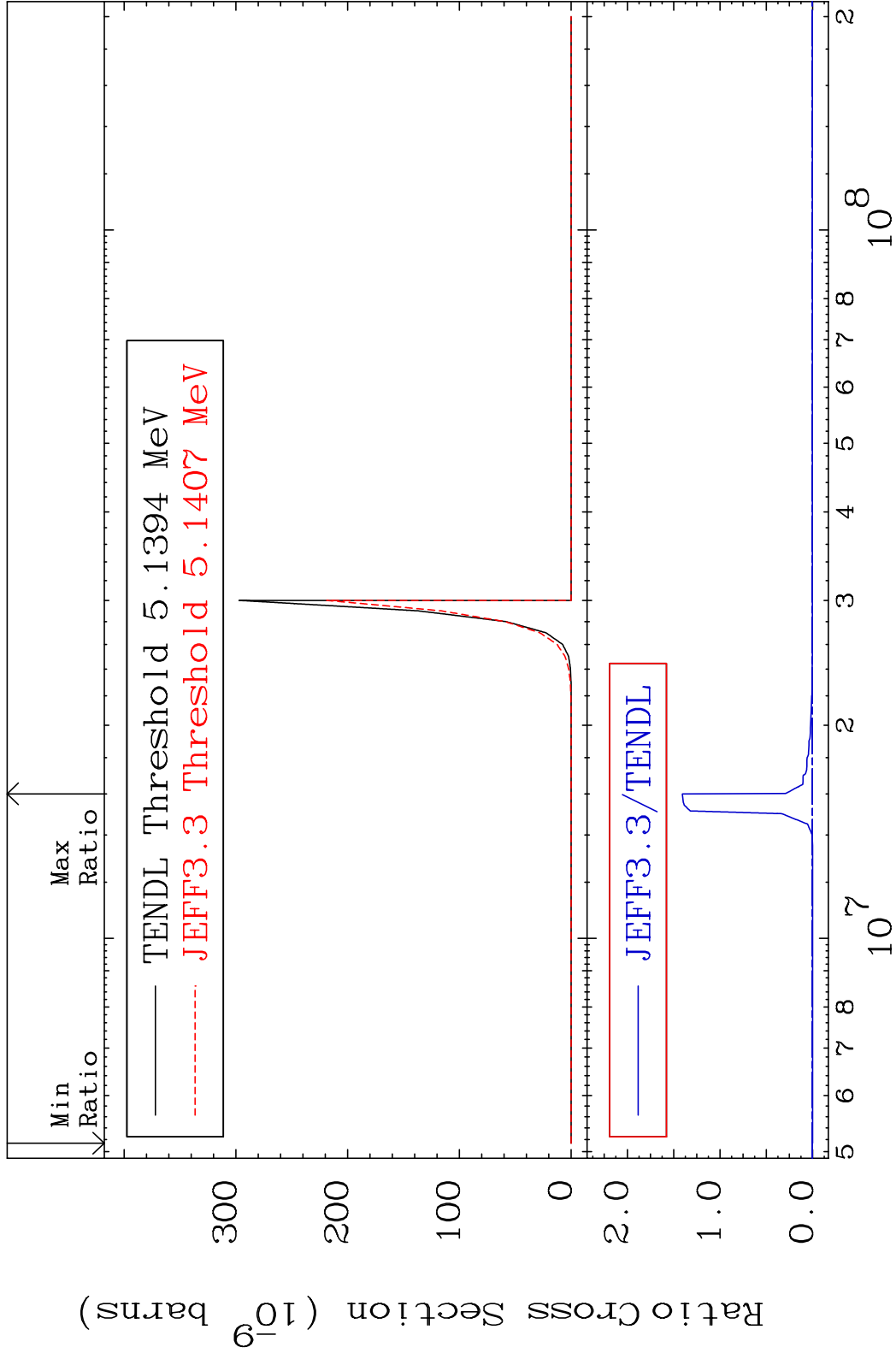


MAT 7028 (n,2n) p 70-Yb-169
 Cross Section -100.0 To 518.3 %

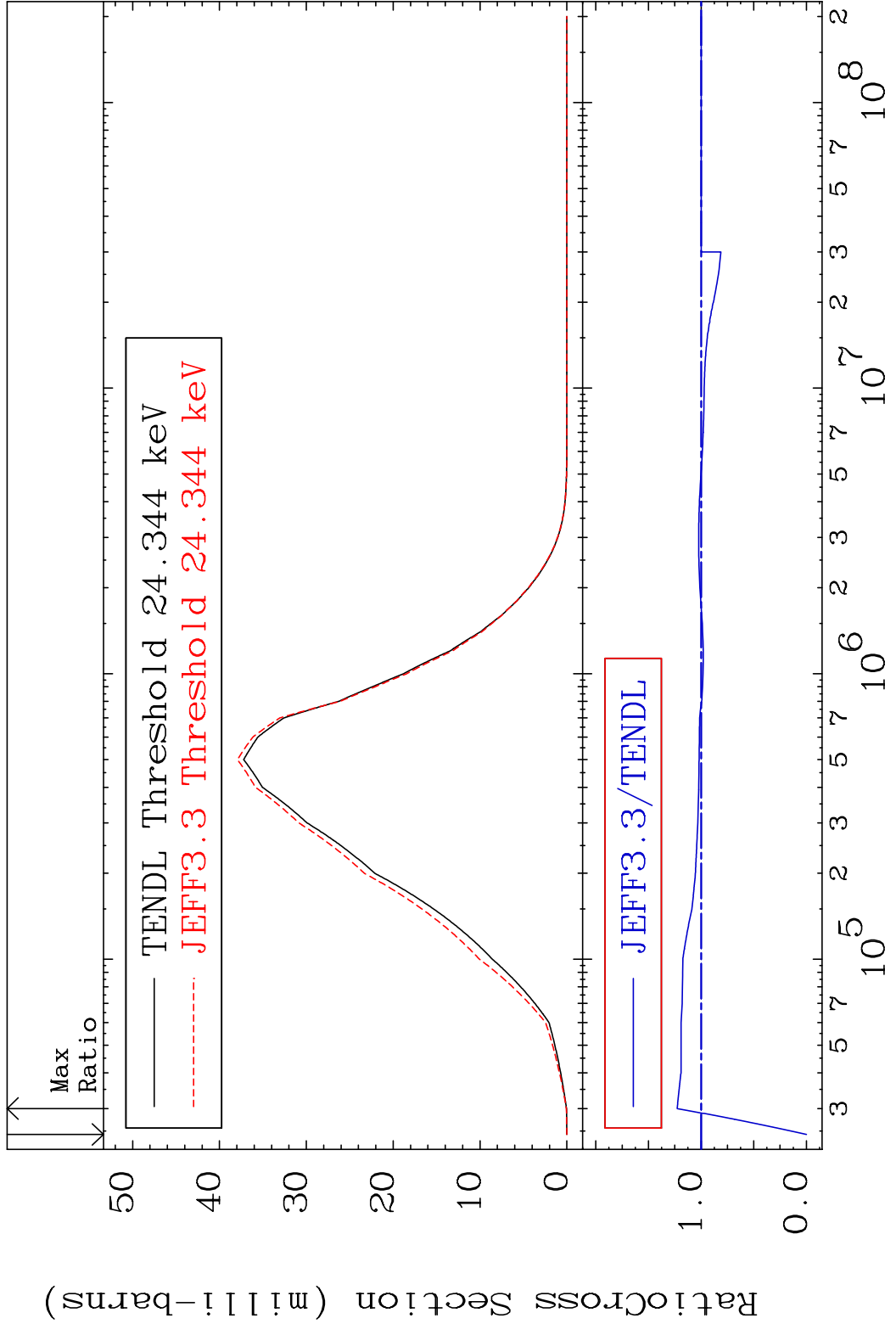


MAT 7028

(n,n') p α 70-Yb-169
Cross Section -100.0 To 9999. %



MAT 7028 MT= 51 (n, n') Level 70-Yb-169
 Cross Section -100.0 To 22.72 %

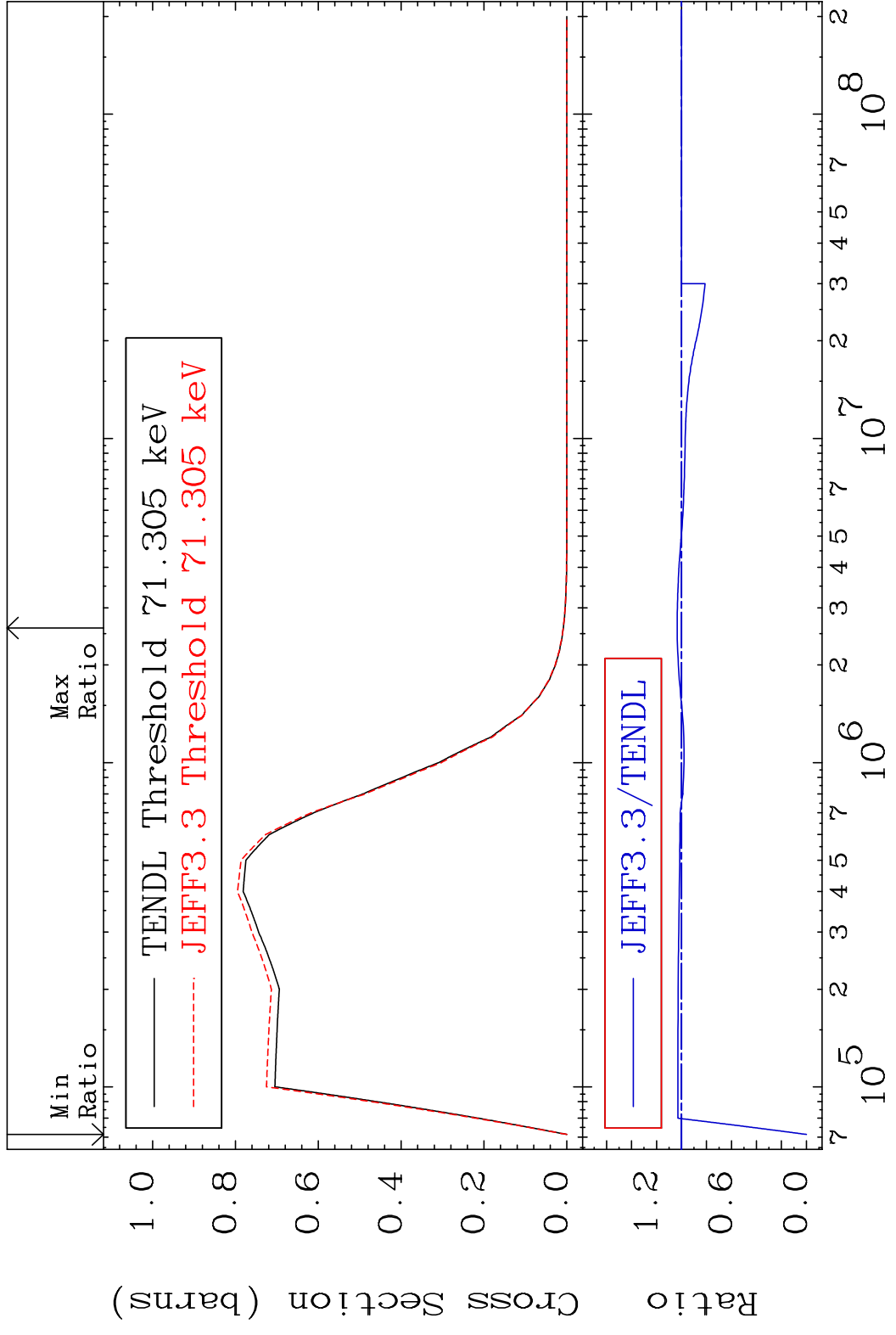


20

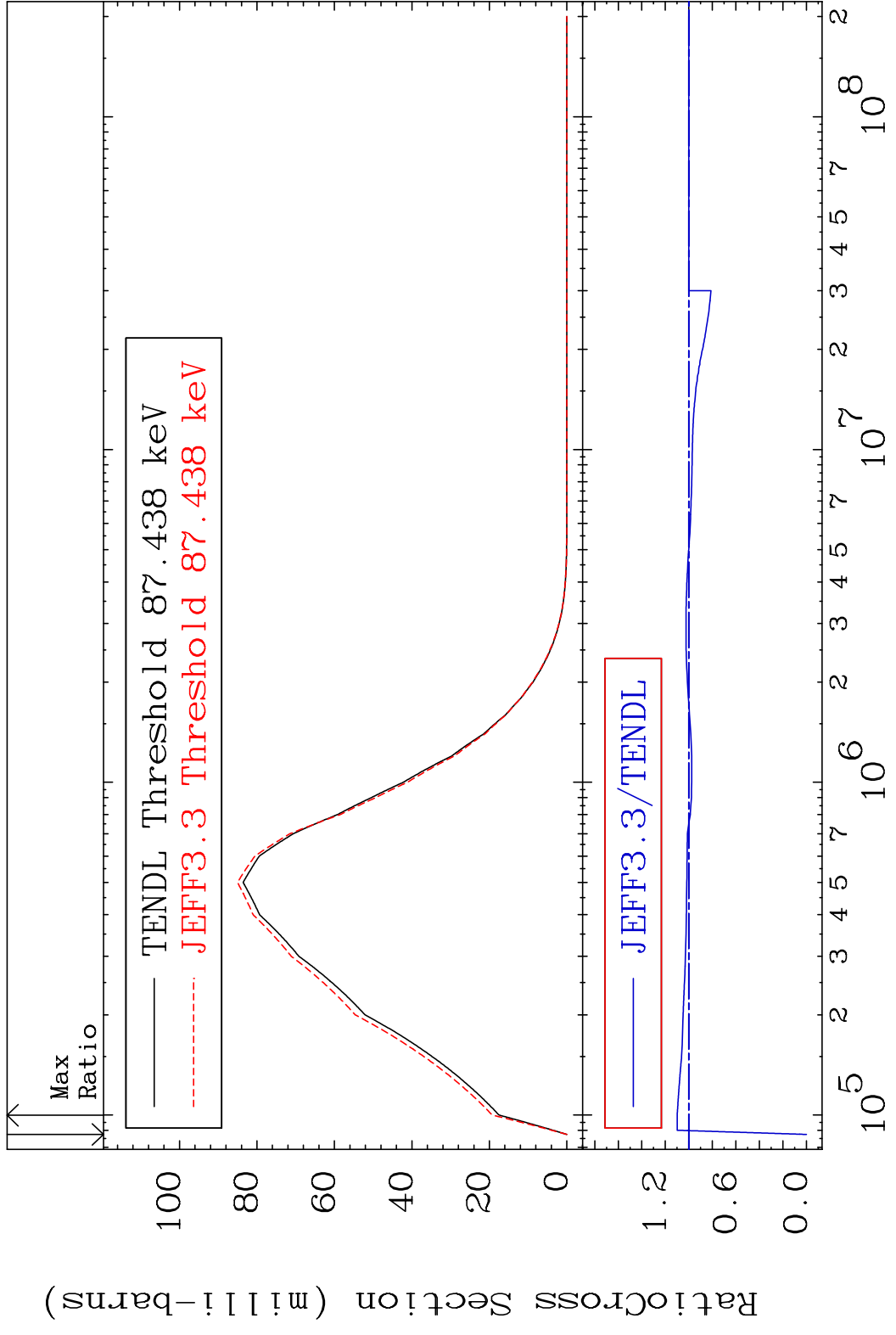
Incident Energy (eV)

70-Yb-169

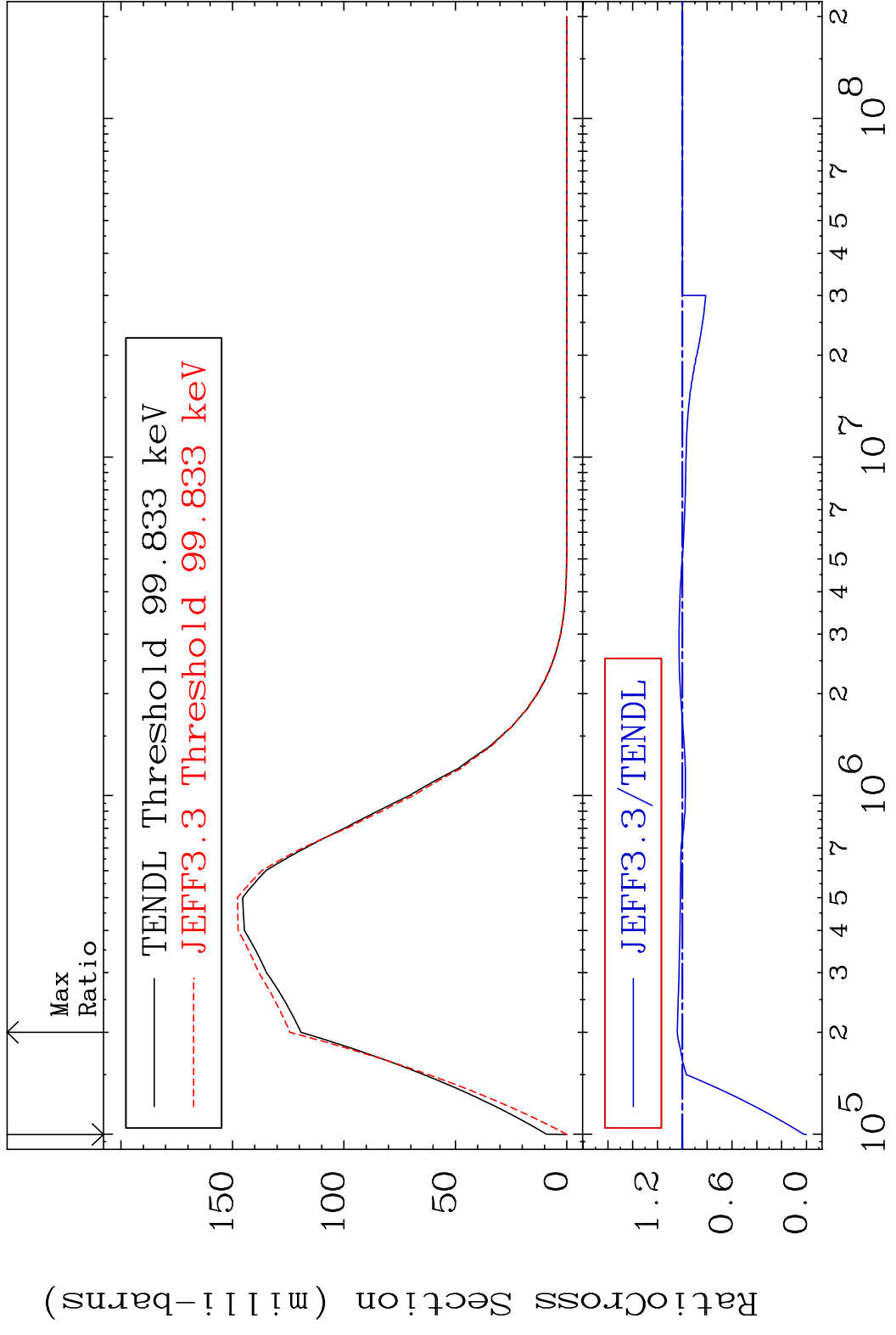
MAT 7028 MT= 52 (n, n') Level 70-Yb-169
 Cross Section -100.0 To 3.471 %



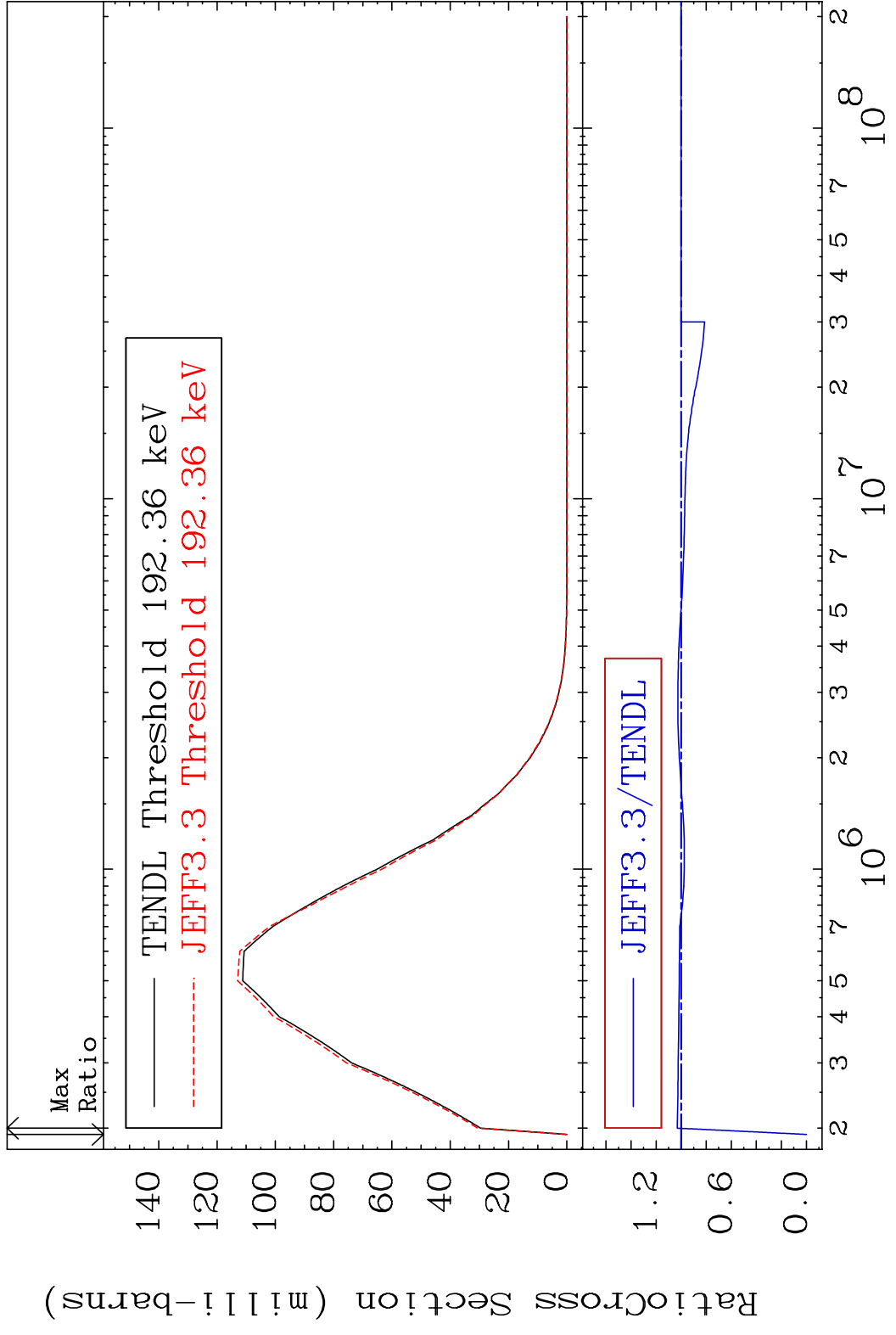
MAT 7028 MT= 53 (n,n') Level 70-Yb-169
 Cross Section -100.0 To 9.903 %



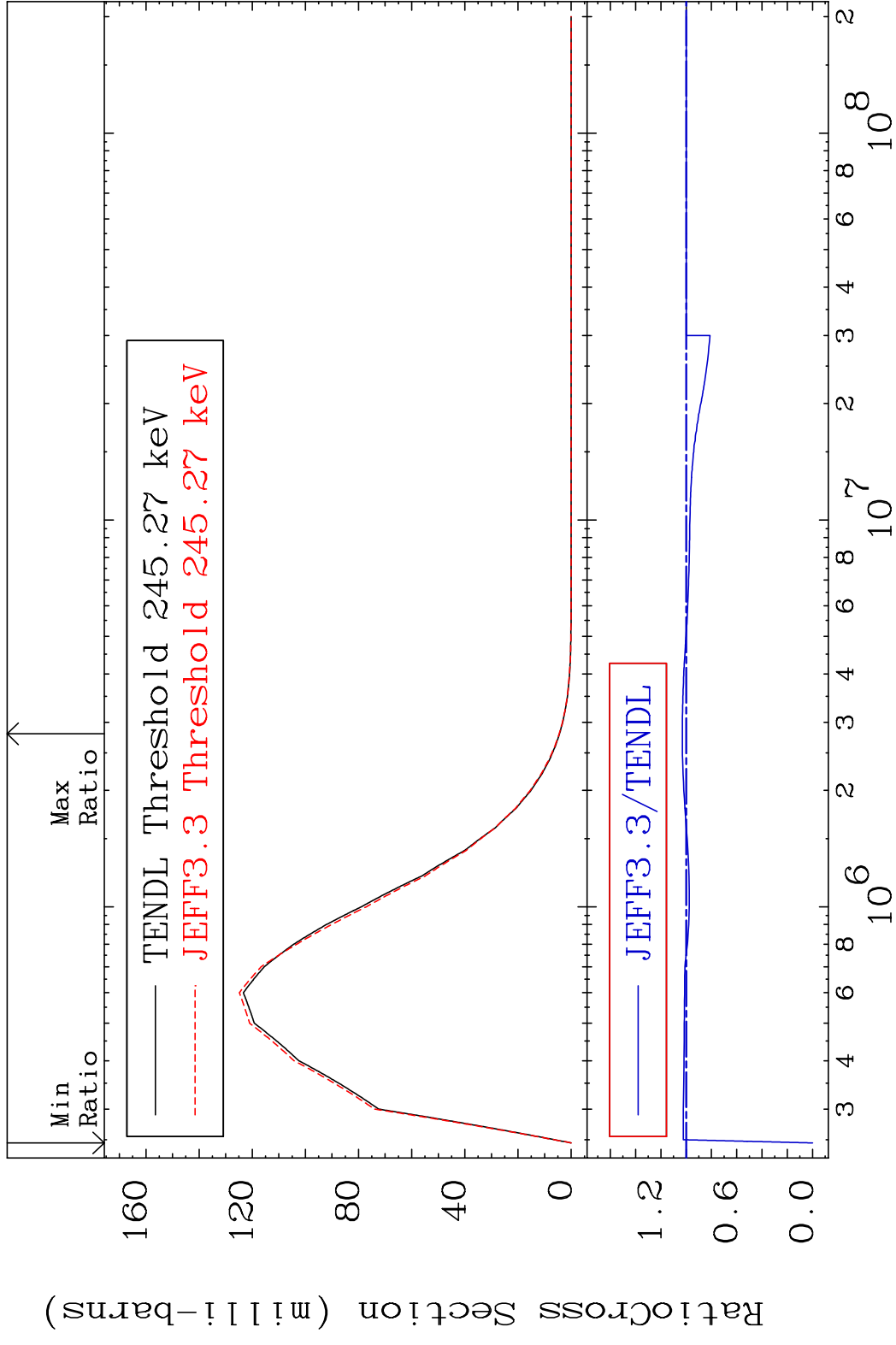
MAT 7028 MT= 54 (n,n') Level 70-Yb-169
 Cross Section -100.0 To 4.168 %



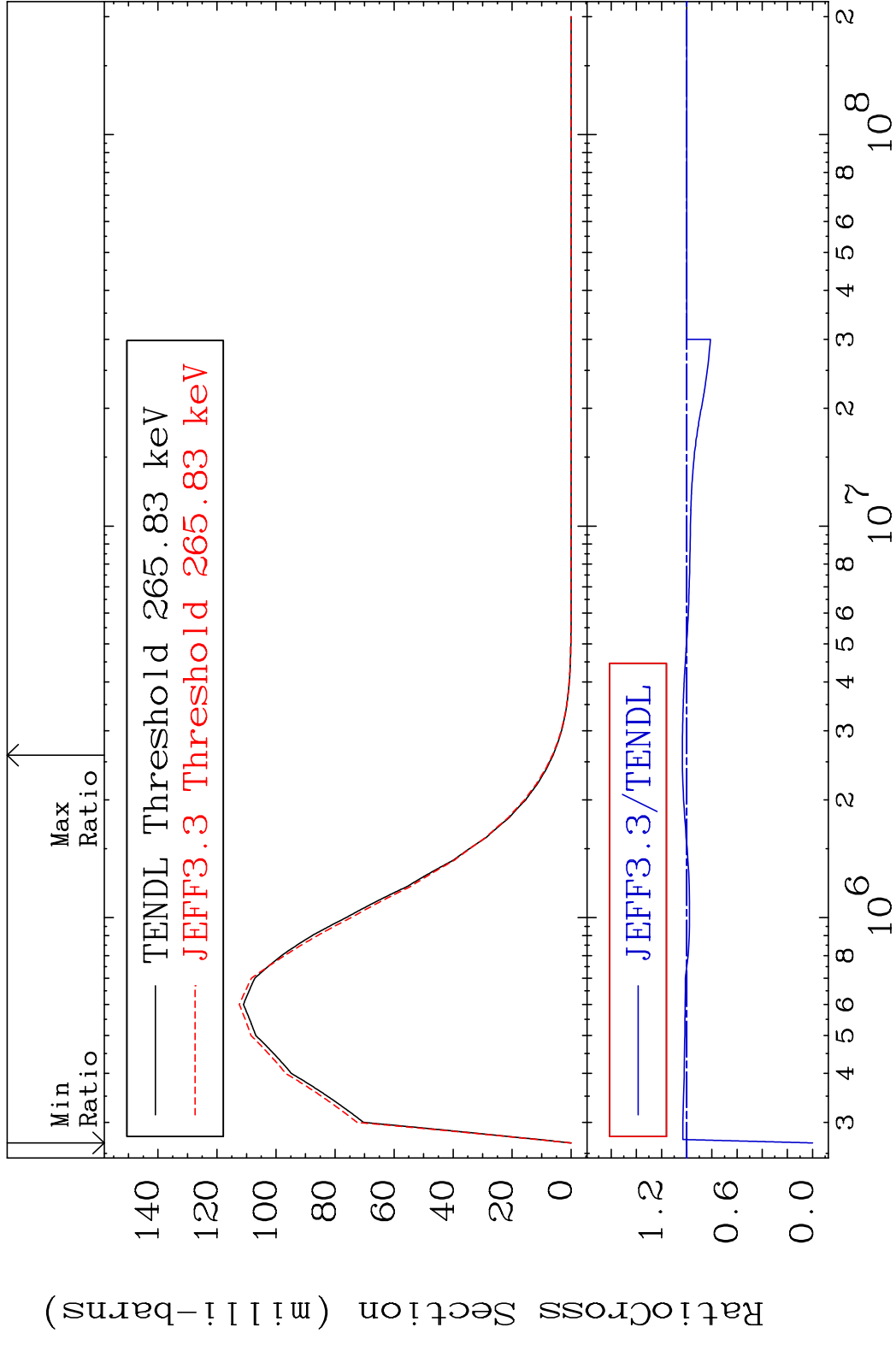
MAT 7028 MT= 56 (n,n') Level 70-Yb-169
 Cross Section -100.0 To 3.180 %



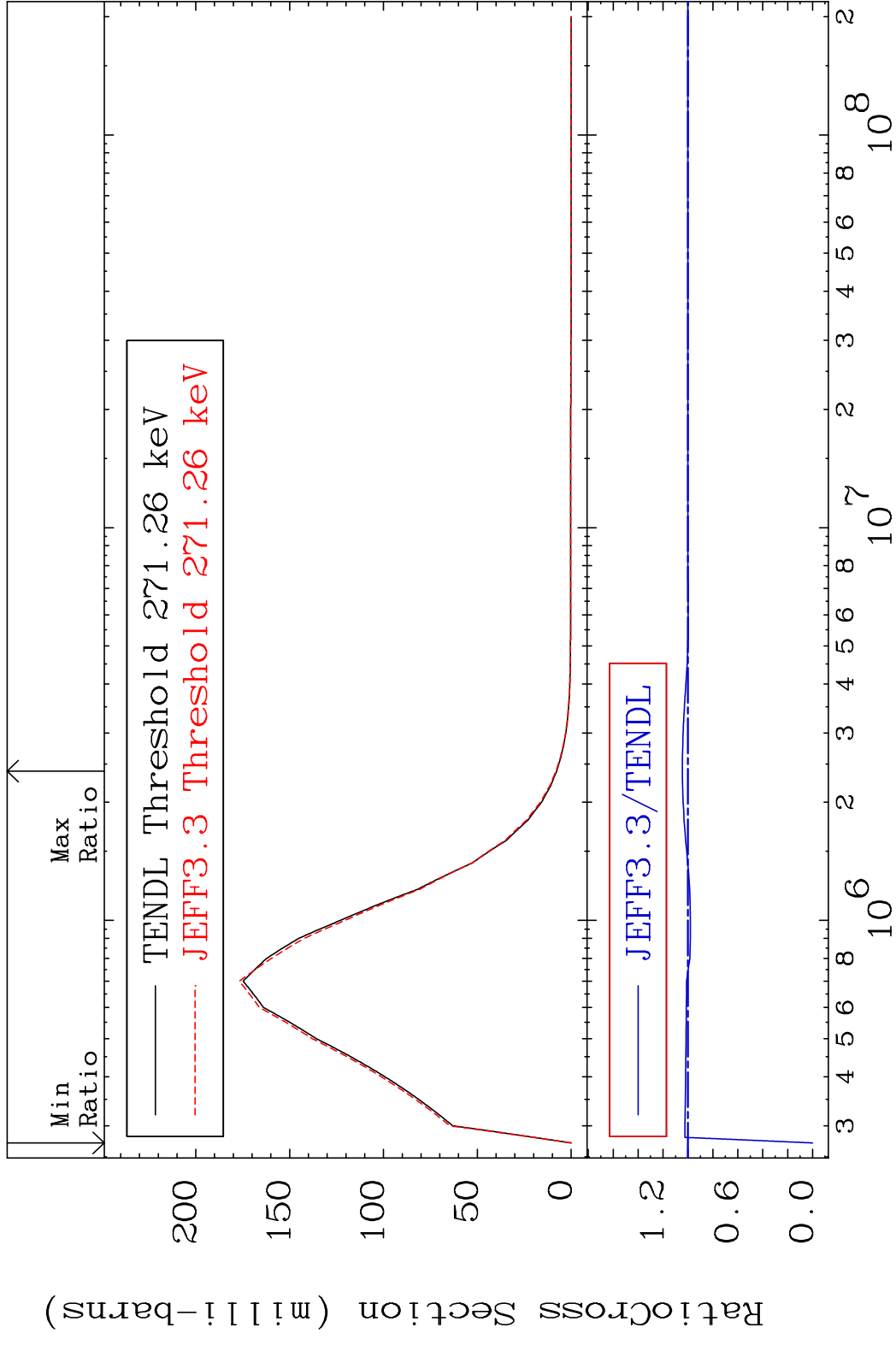
MAT 7028 MT= 57 (n, n') Level 70-Yb-169
 Cross Section -100.0 To 3.014 %



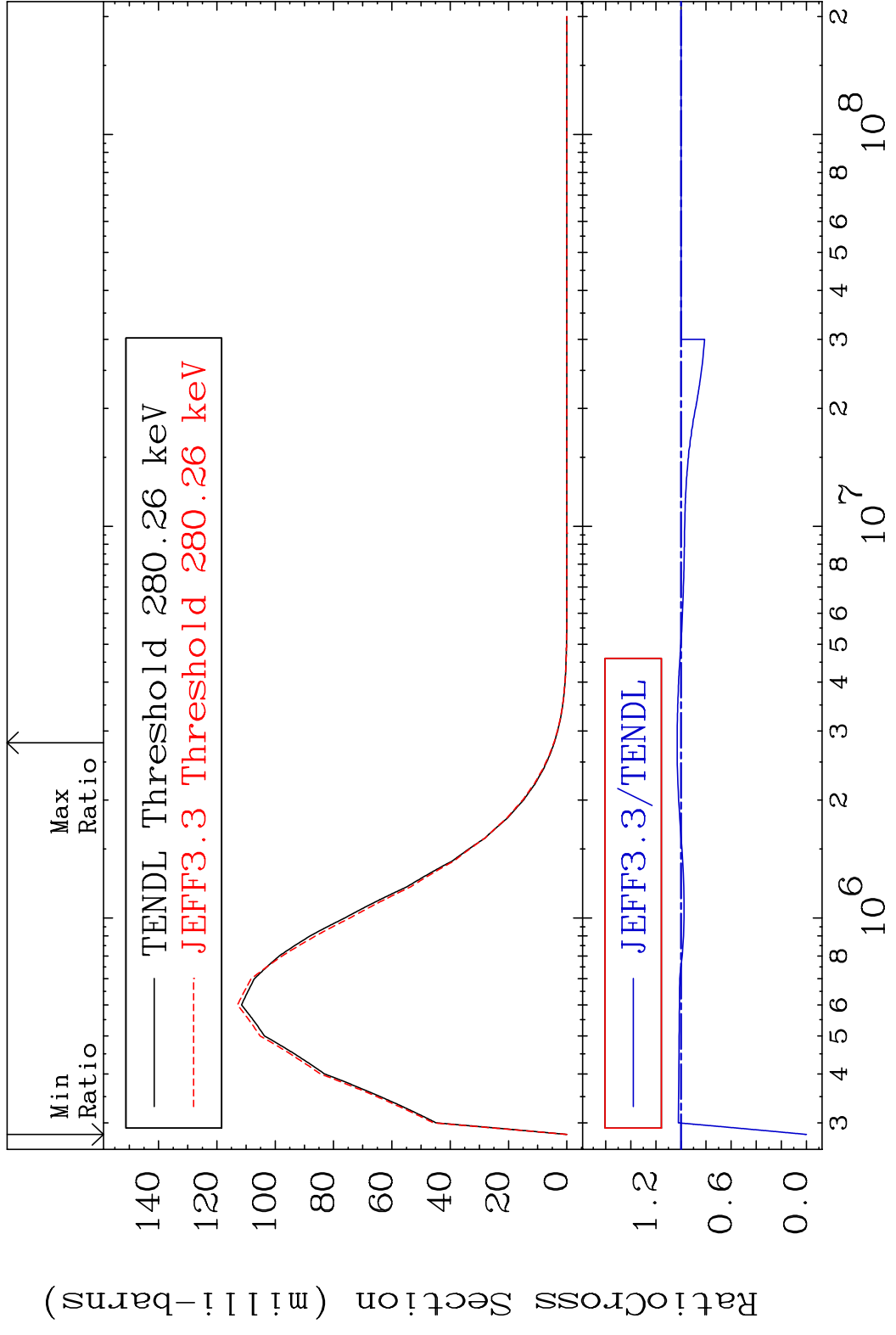
MAT 7028 MT= 58 (n,n') Level 70-Yb-169
 Cross Section -100.0 To 3.468 %



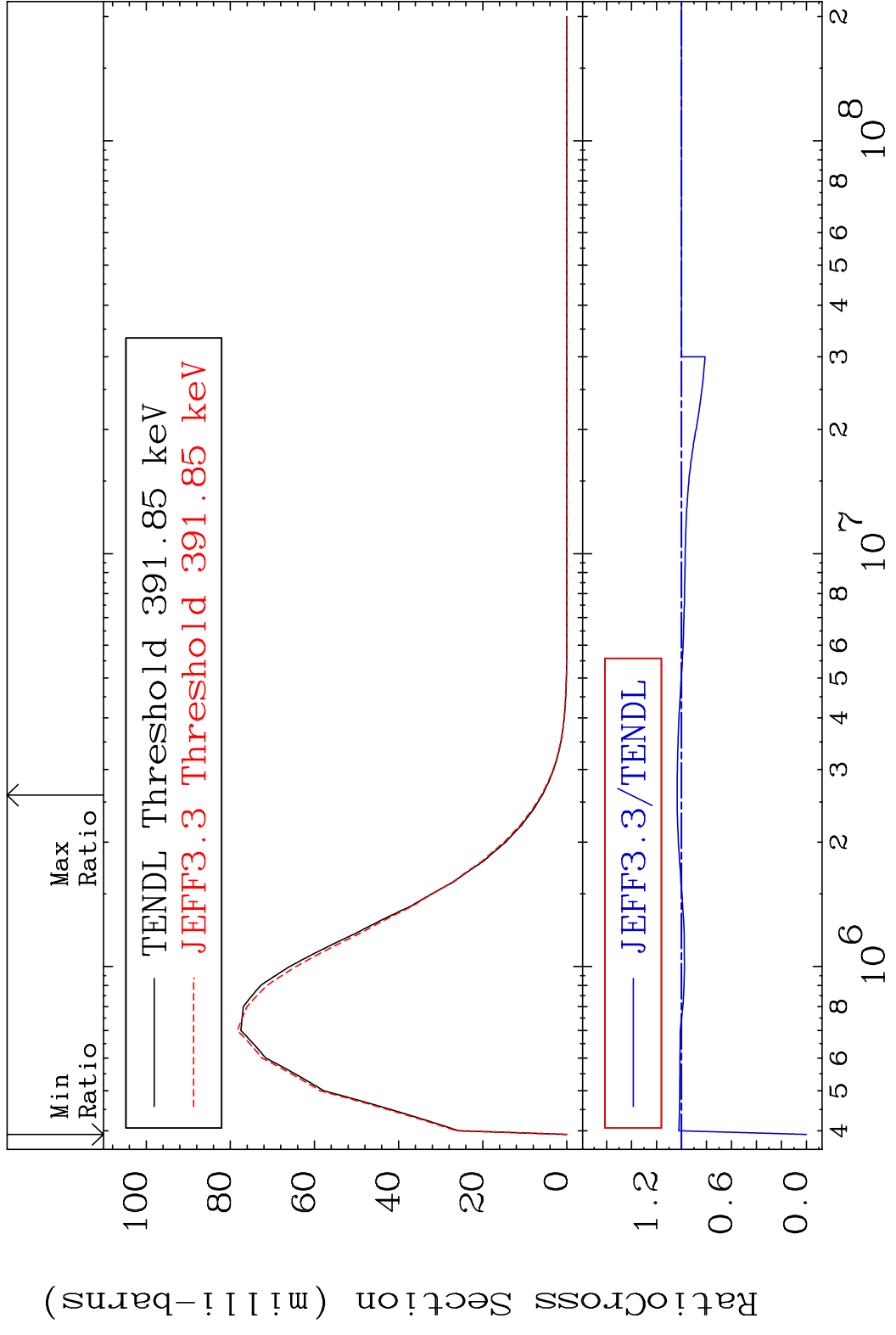
MAT 7028 MT= 59 (n, n') Level 70-Yb-169
 Cross Section -100.0 To 4.493 %



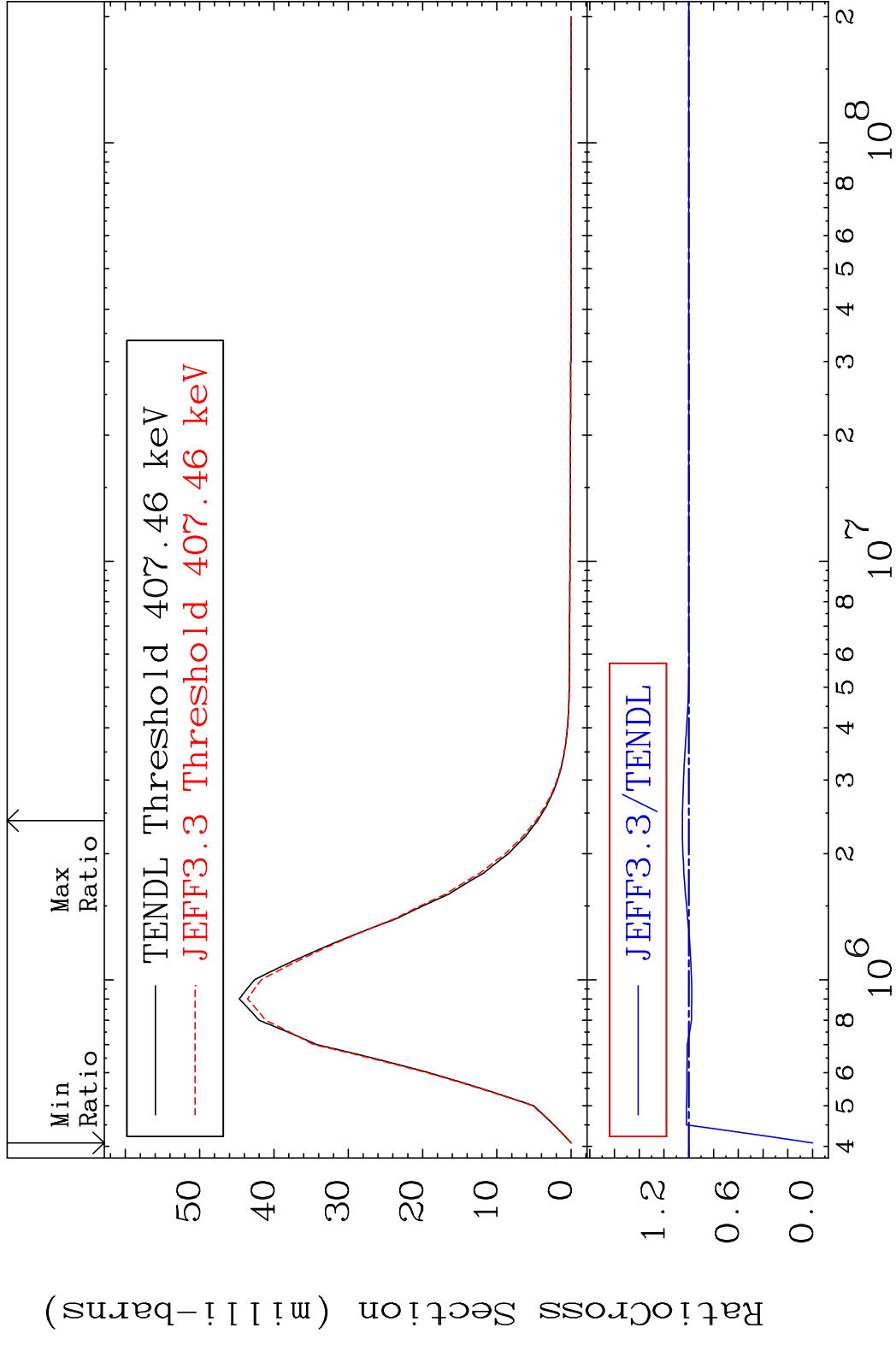
MAT 7028 MT= 60 (n, n') Level 70-Yb-169
 Cross Section -100.0 To 3.011 %



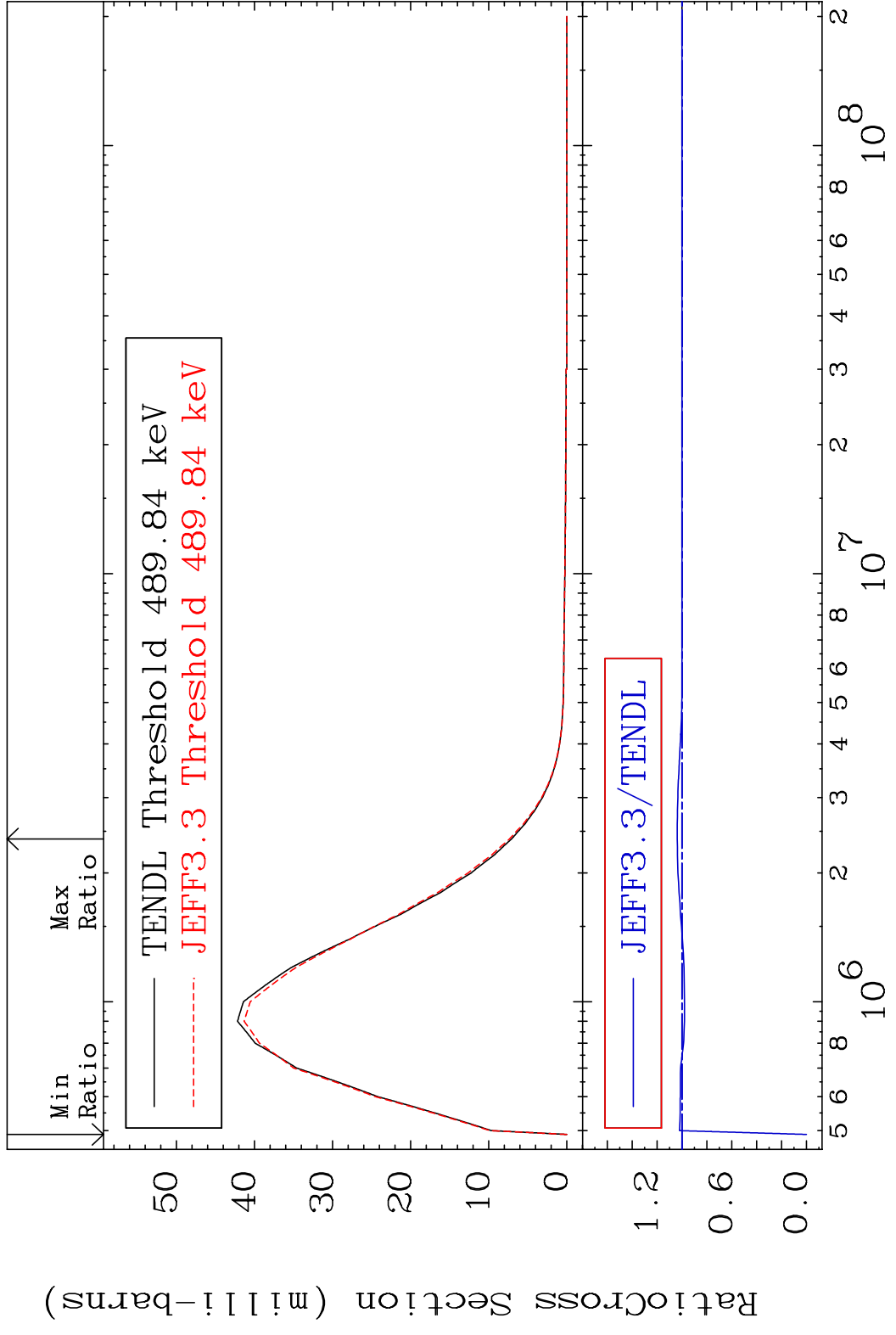
MAT 7028 MT= 61 (n, n') Level 70-Yb-169
 Cross Section -100.0 To 3.466 %



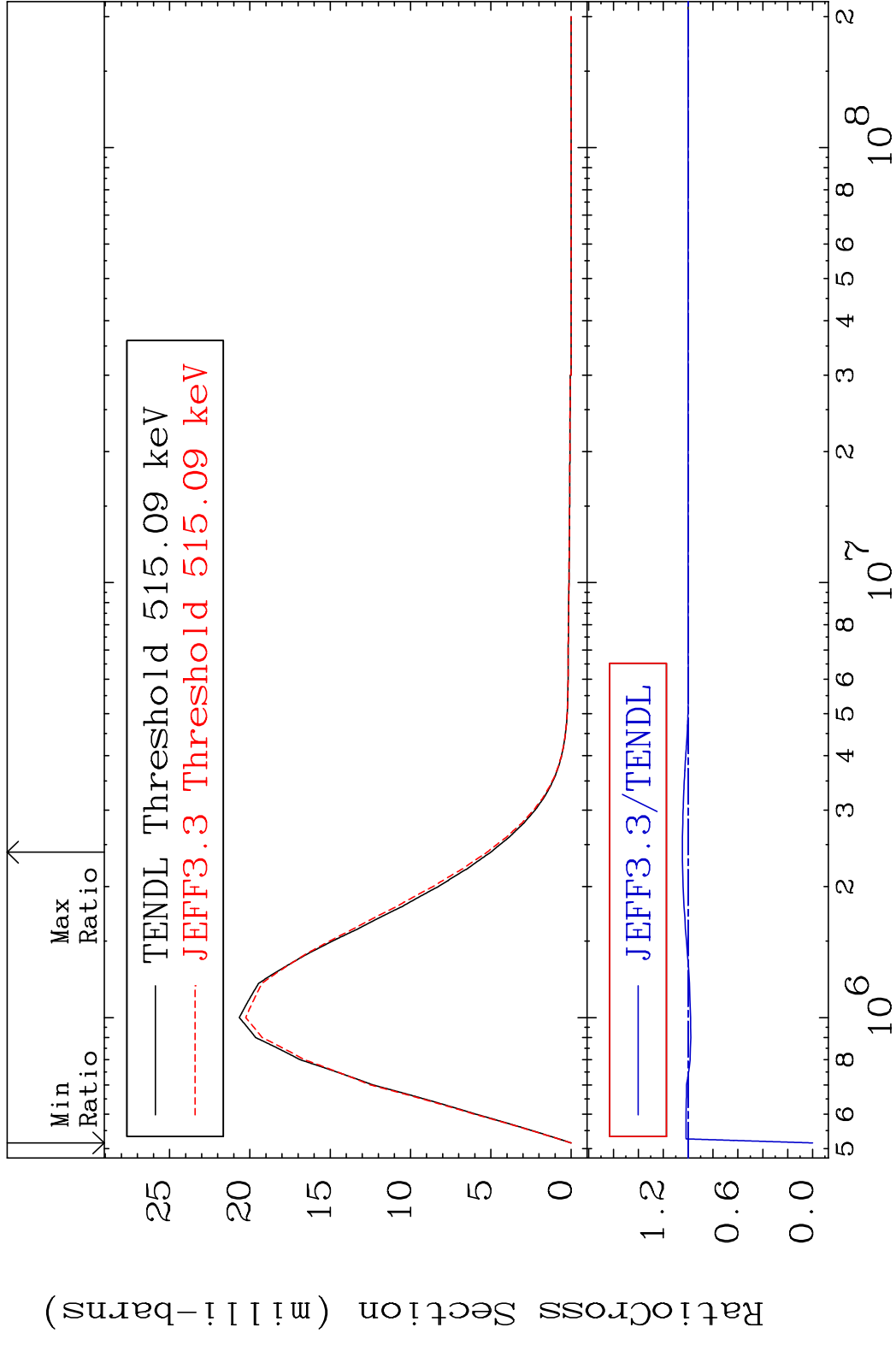
MAT 7028 MT= 62 (n, n') Level 70-Yb-169
 Cross Section -100.0 To 5.189 %



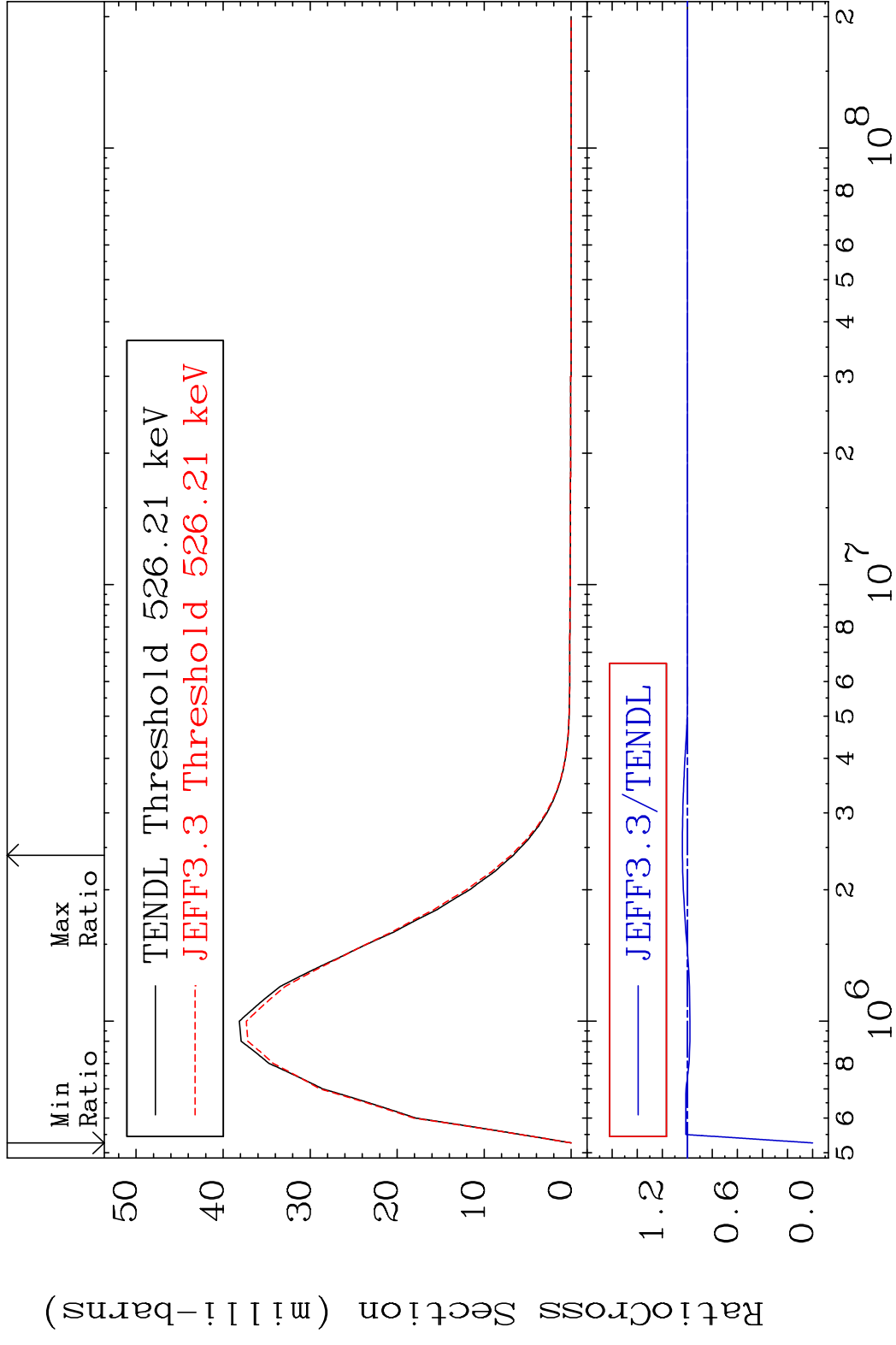
MAT 7028 MT= 63 (n, n') Level 70-Yb-169
 Cross Section -100.0 To 3.779 %



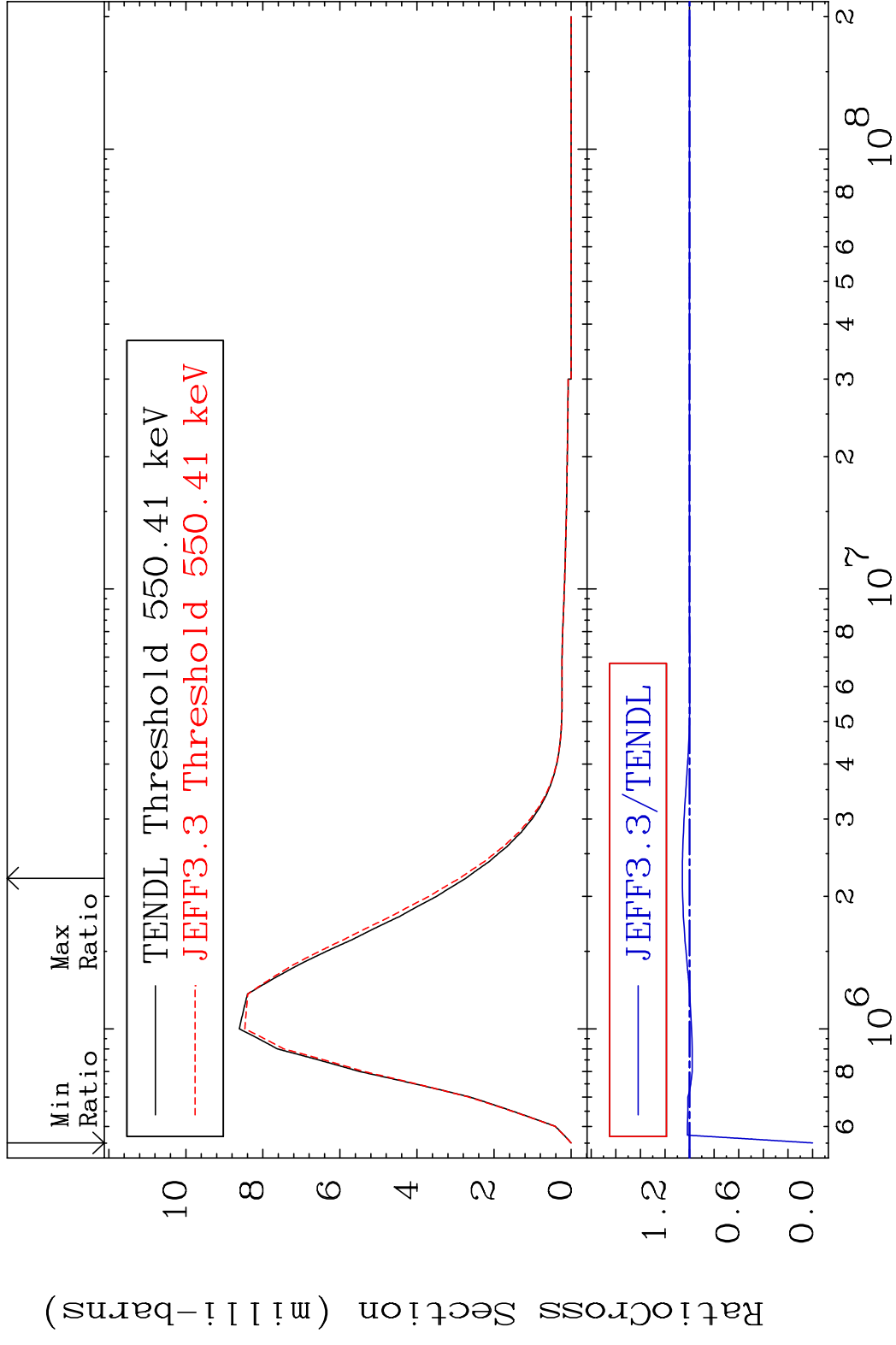
MAT 7028 MT= 64 (n, n') Level 70-Yb-169
 Cross Section -100.0 To 4.642 %



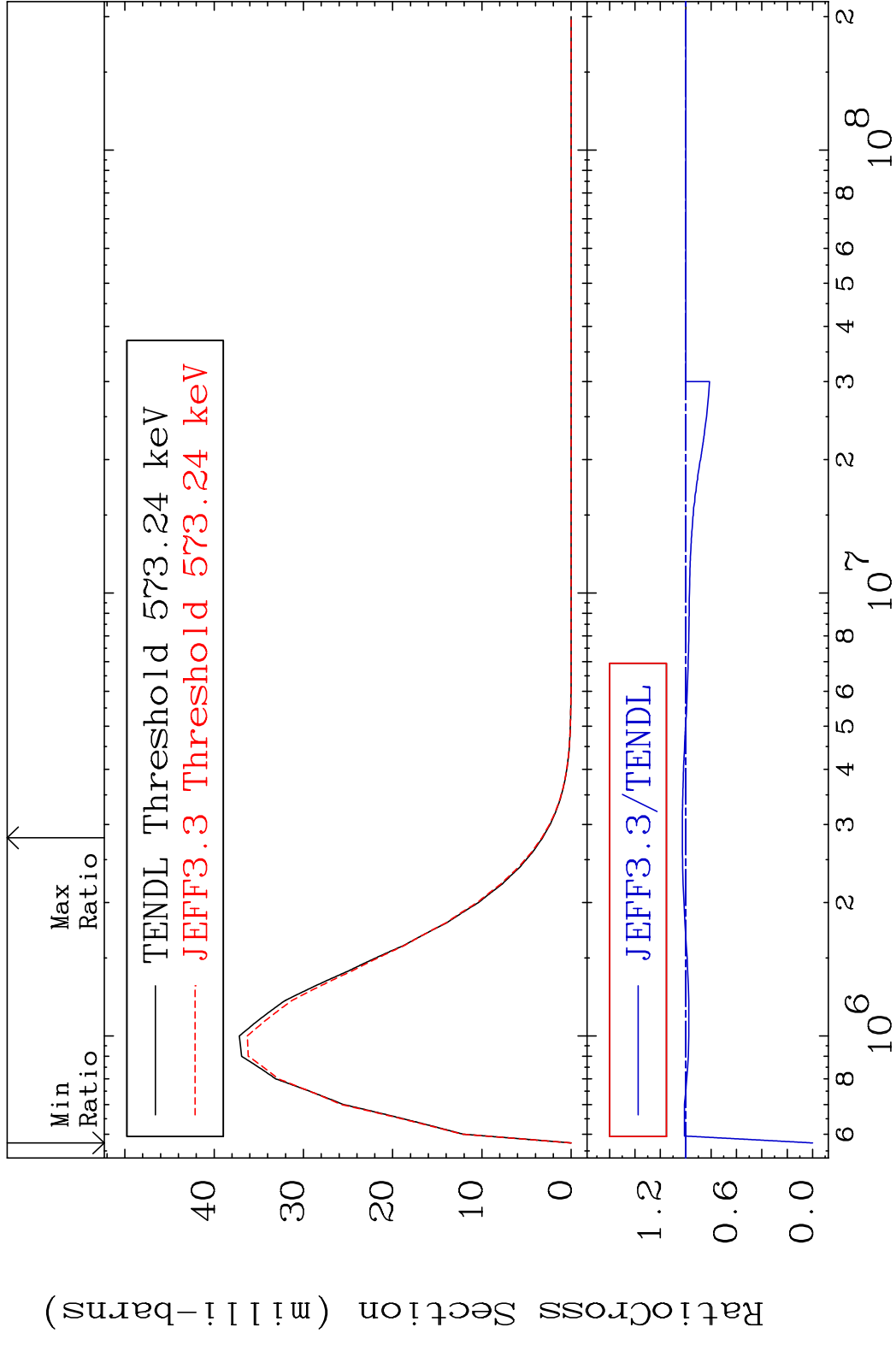
MAT 7028 MT= 65 (n, n') Level 70-Yb-169
 Cross Section -100.0 To 3.970 %



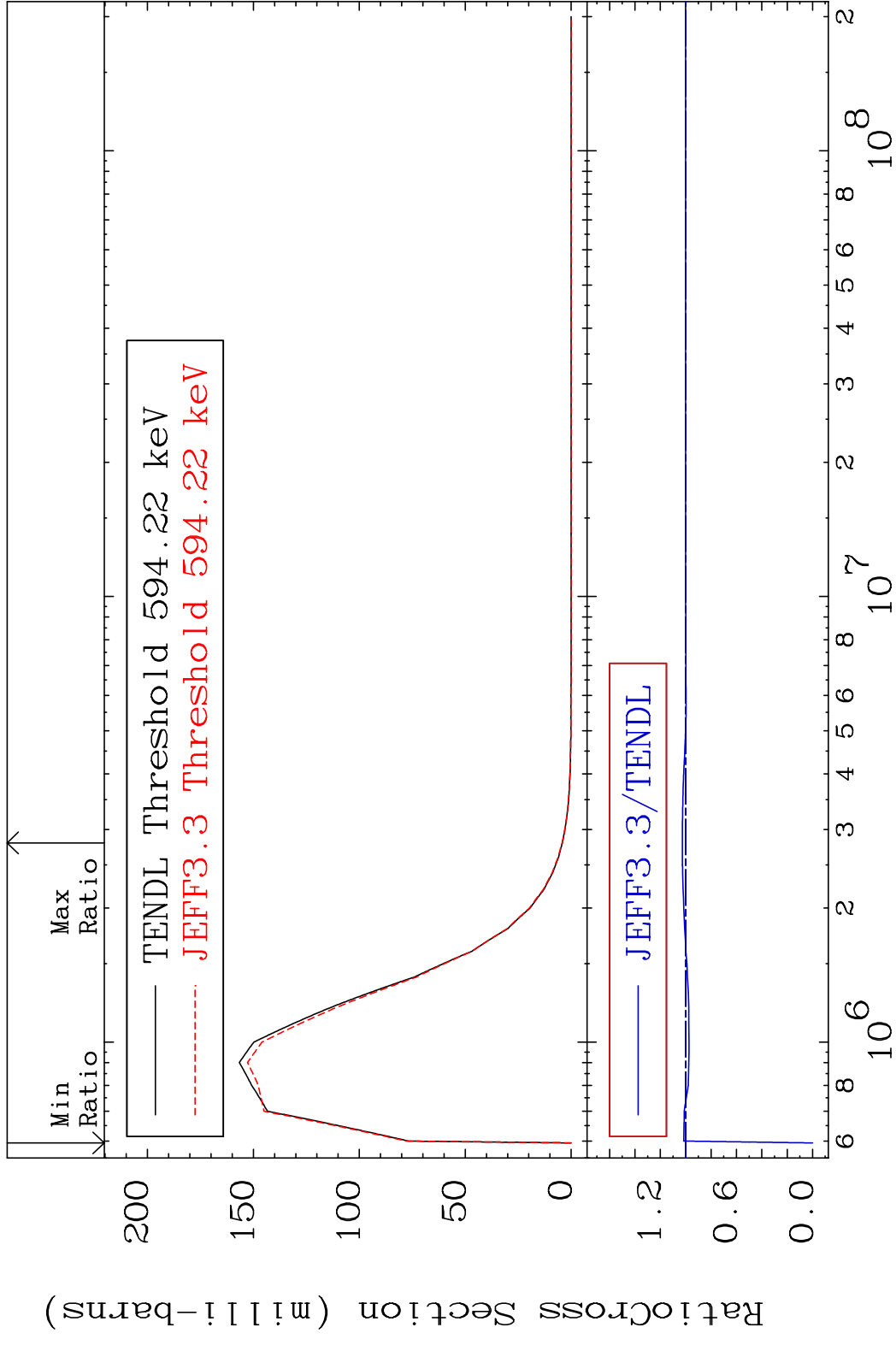
MAT 7028 MT= 66 (n, n') Level 70-Yb-169
 Cross Section -100.0 To 5.862 %



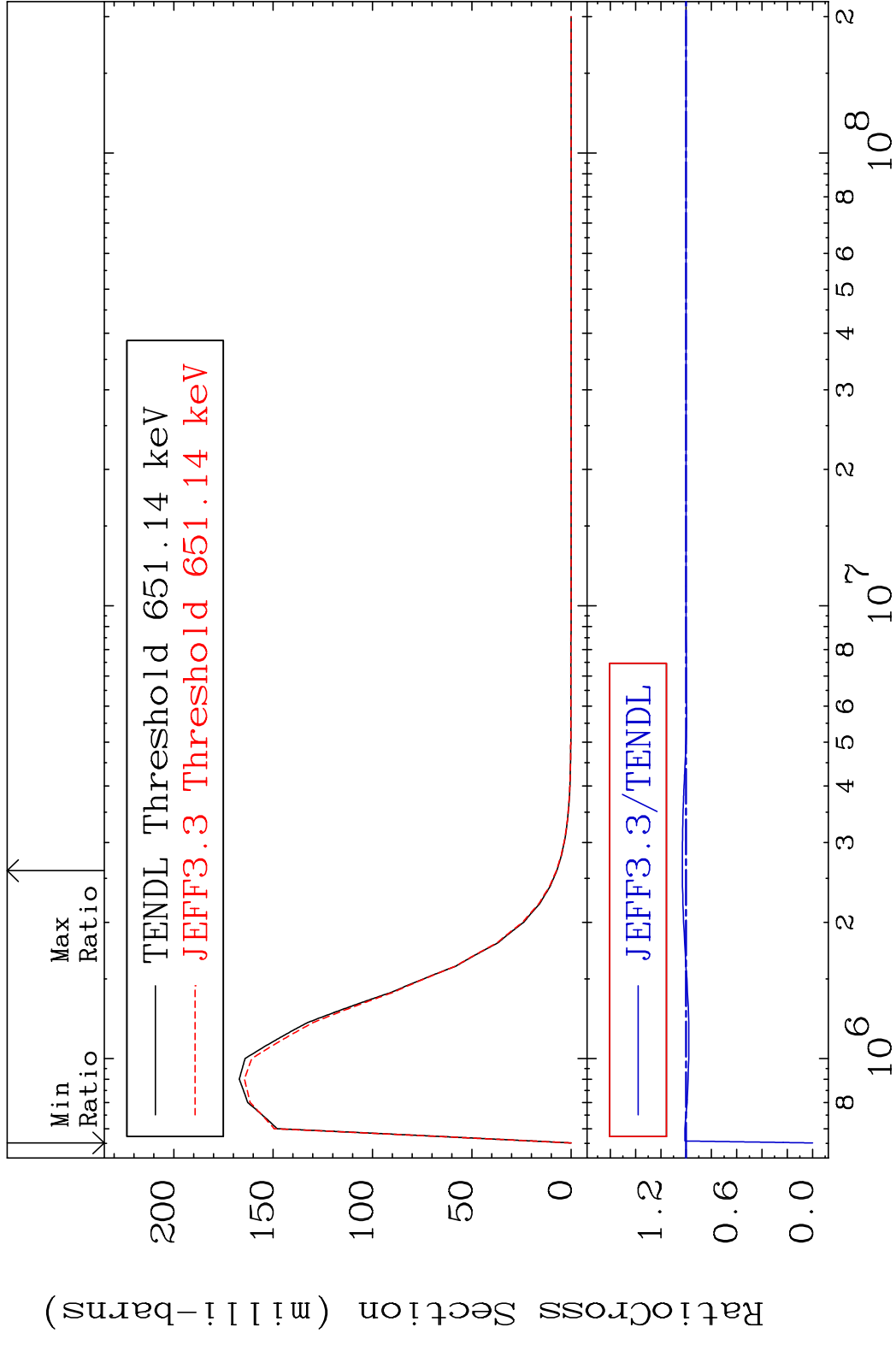
MAT 7028 MT= 67 (n, n') Level 70-Yb-169
 Cross Section -100.0 To 2.641 %



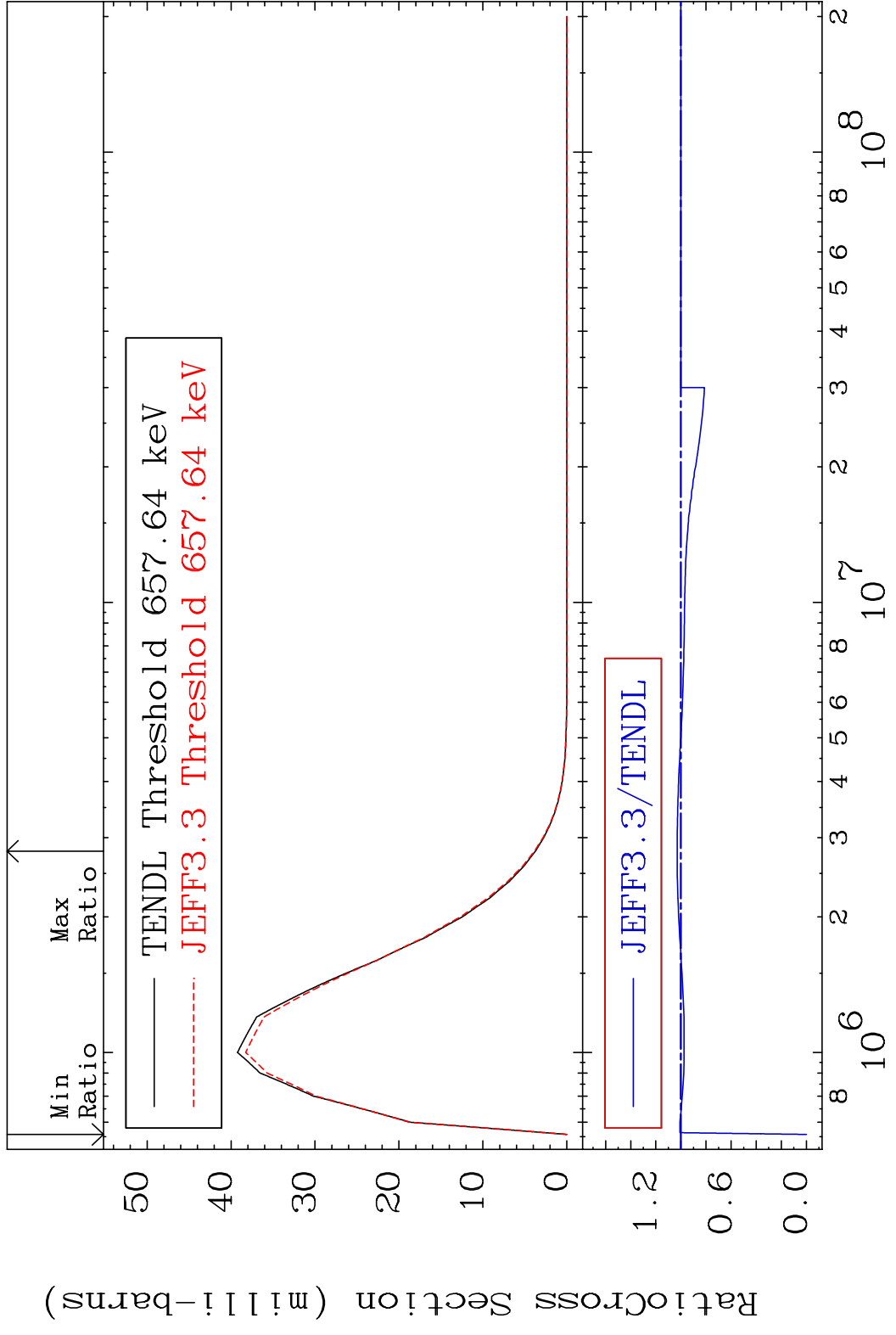
MAT 7028 MT= 68 (n, n') Level 70-Yb-169
 Cross Section -100.0 To 2.629 %



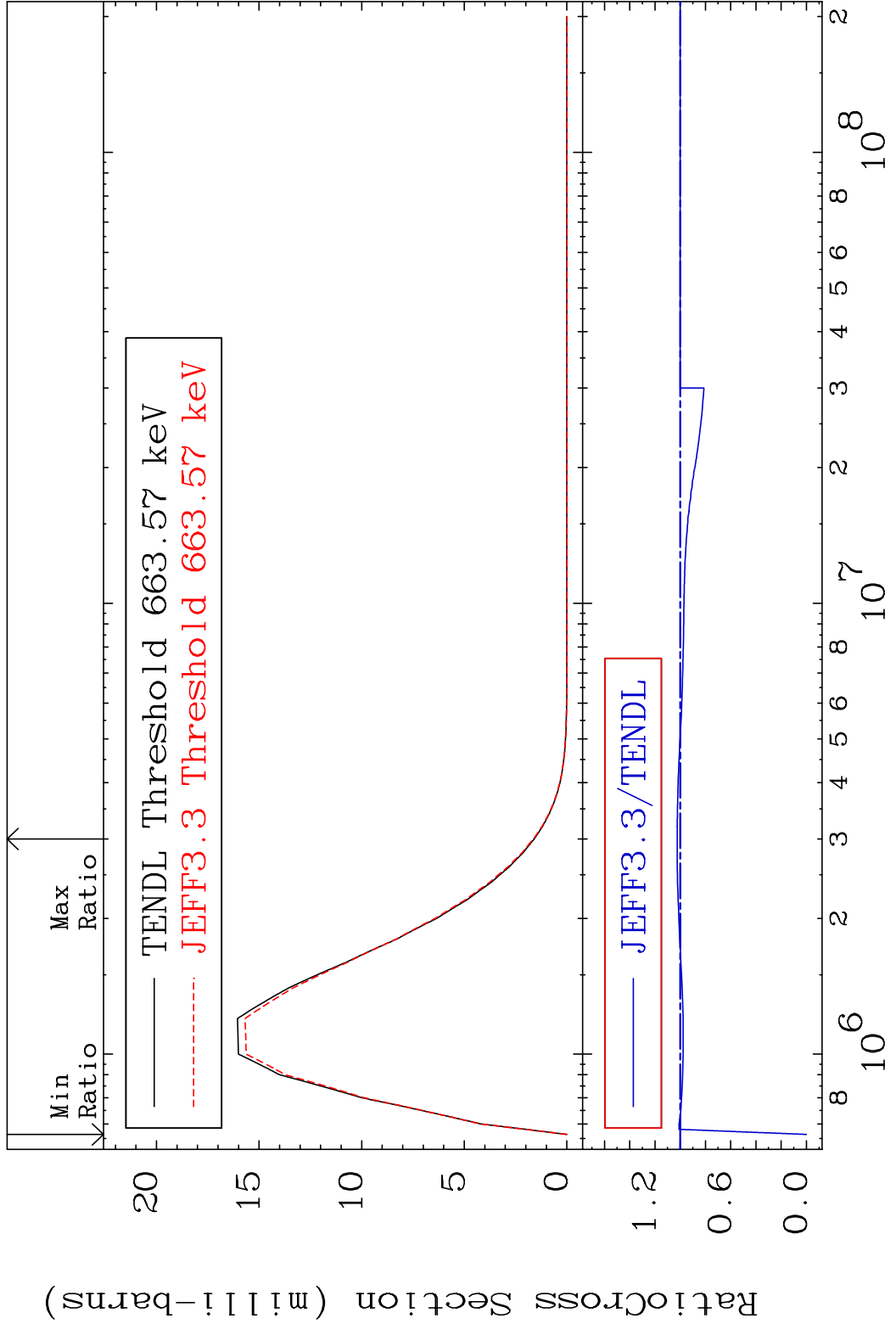
MAT 7028 MT= 69 (n, n') Level 70-Yb-169
 Cross Section -100.0 To 2.990 %



MAT 7028 MT= 70 (n, n') Level 70-Yb-169
 Cross Section -100.0 To 2.980 %

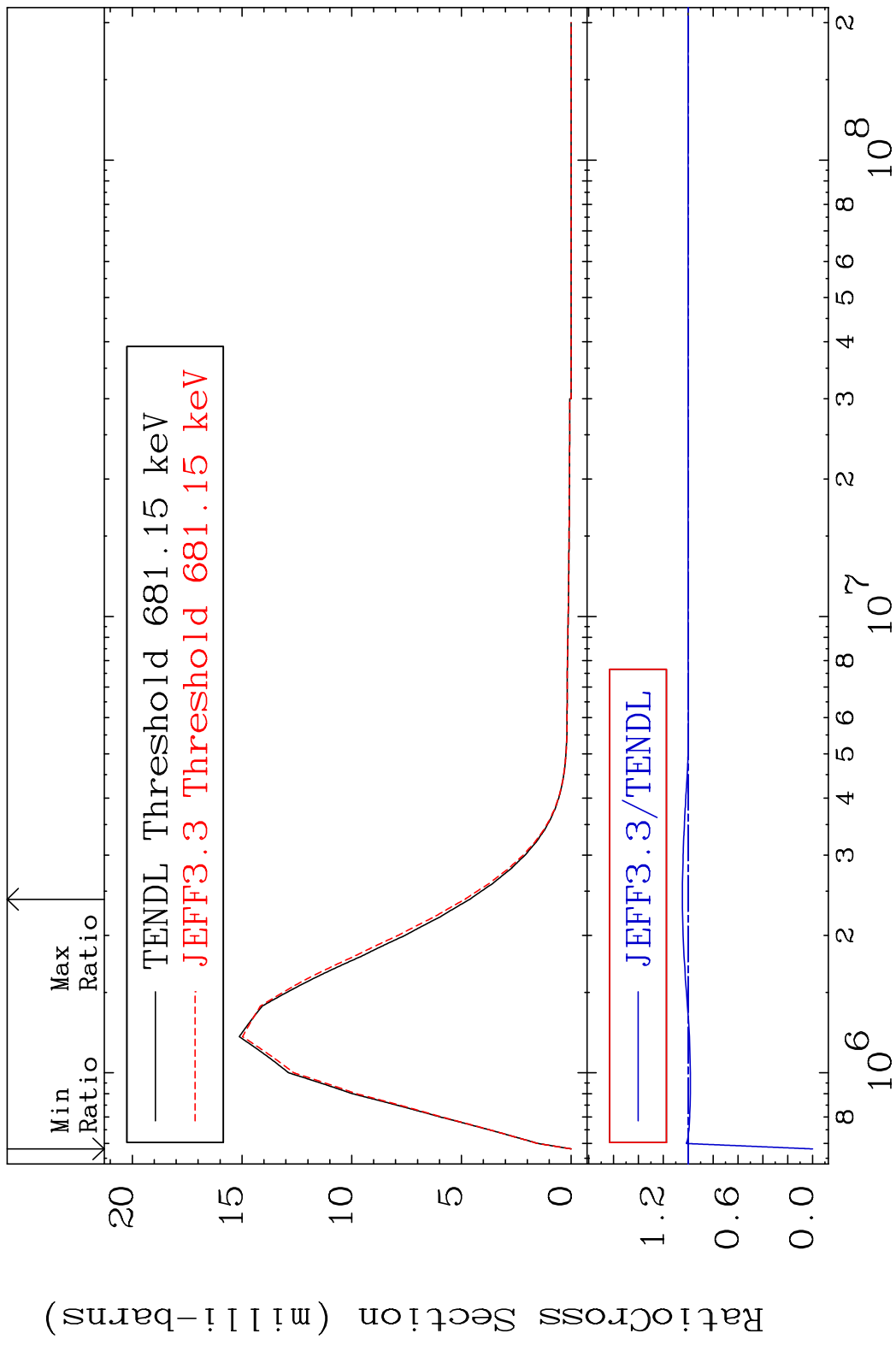


MAT 7028 MT= 71 (n, n') Level 70-Yb-169
 Cross Section -100.0 To 2.379 %



40 Incident Energy (eV) 70-Yb-169

MAT 7028 MT= 72 (n, n') Level 70-Yb-169
 Cross Section -100.0 To 4.692 %

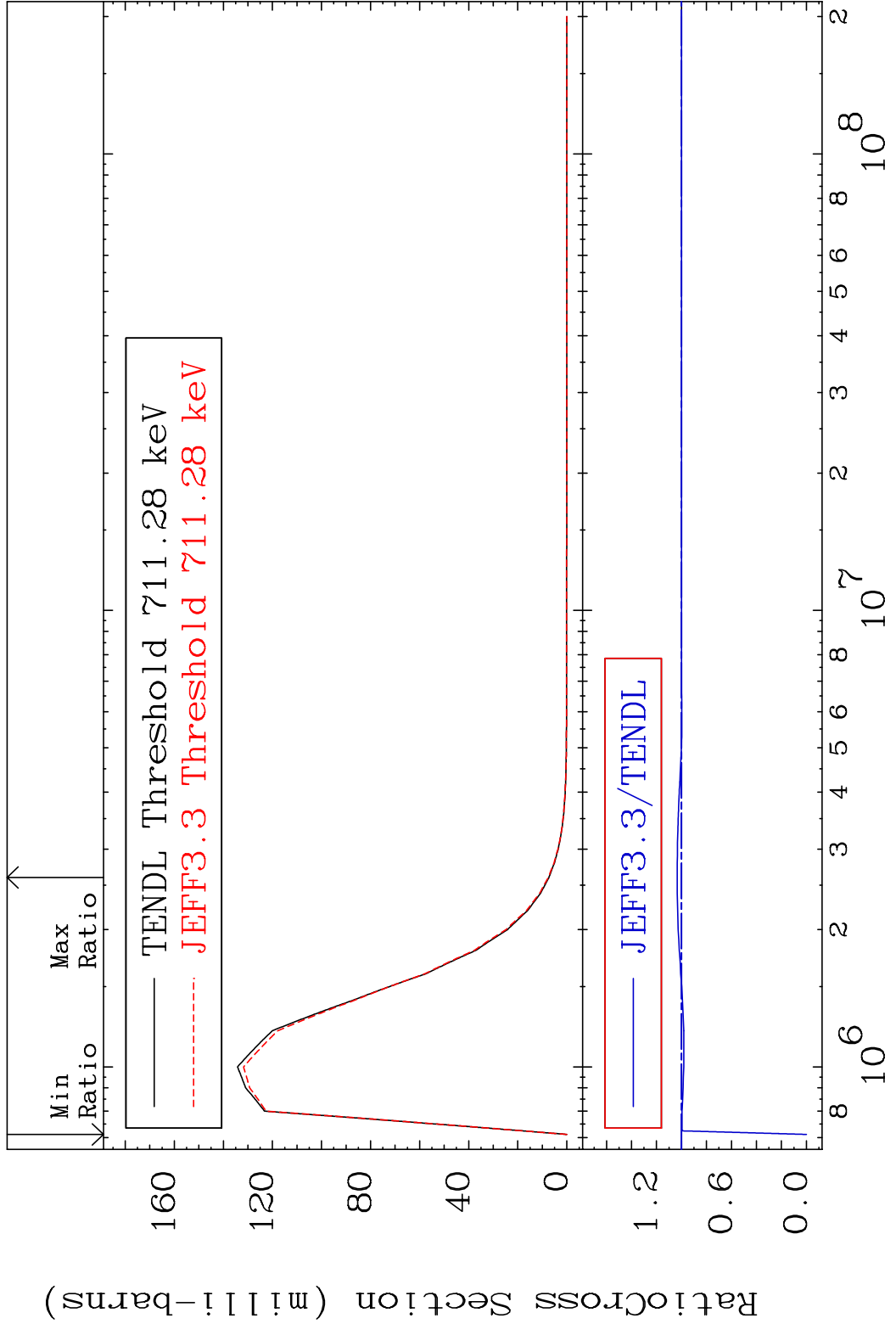


MAT 7028

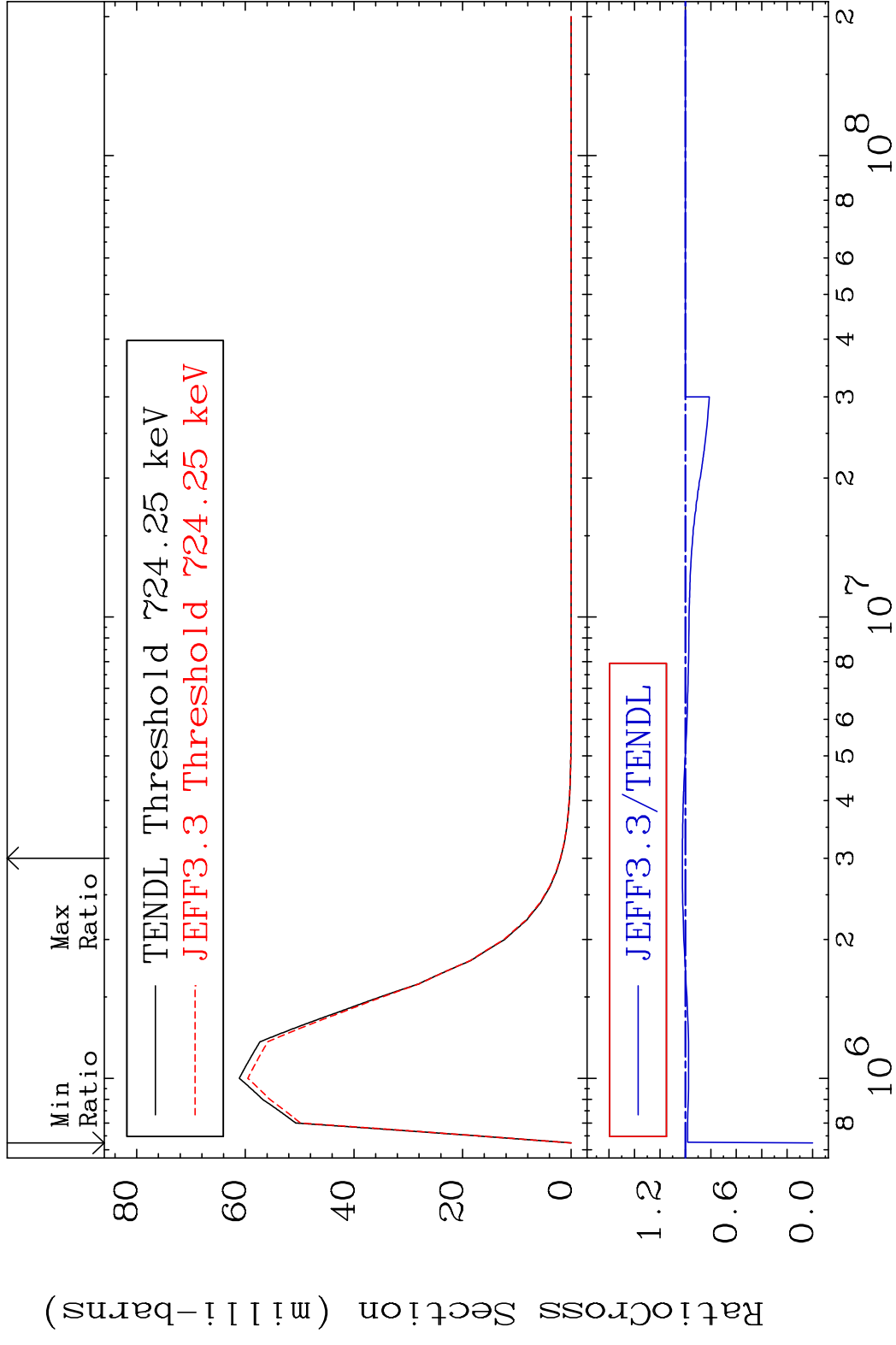
MT= 73 (n, n') Level

70-Yb-169

Cross Section -100.0 To 3.446 %

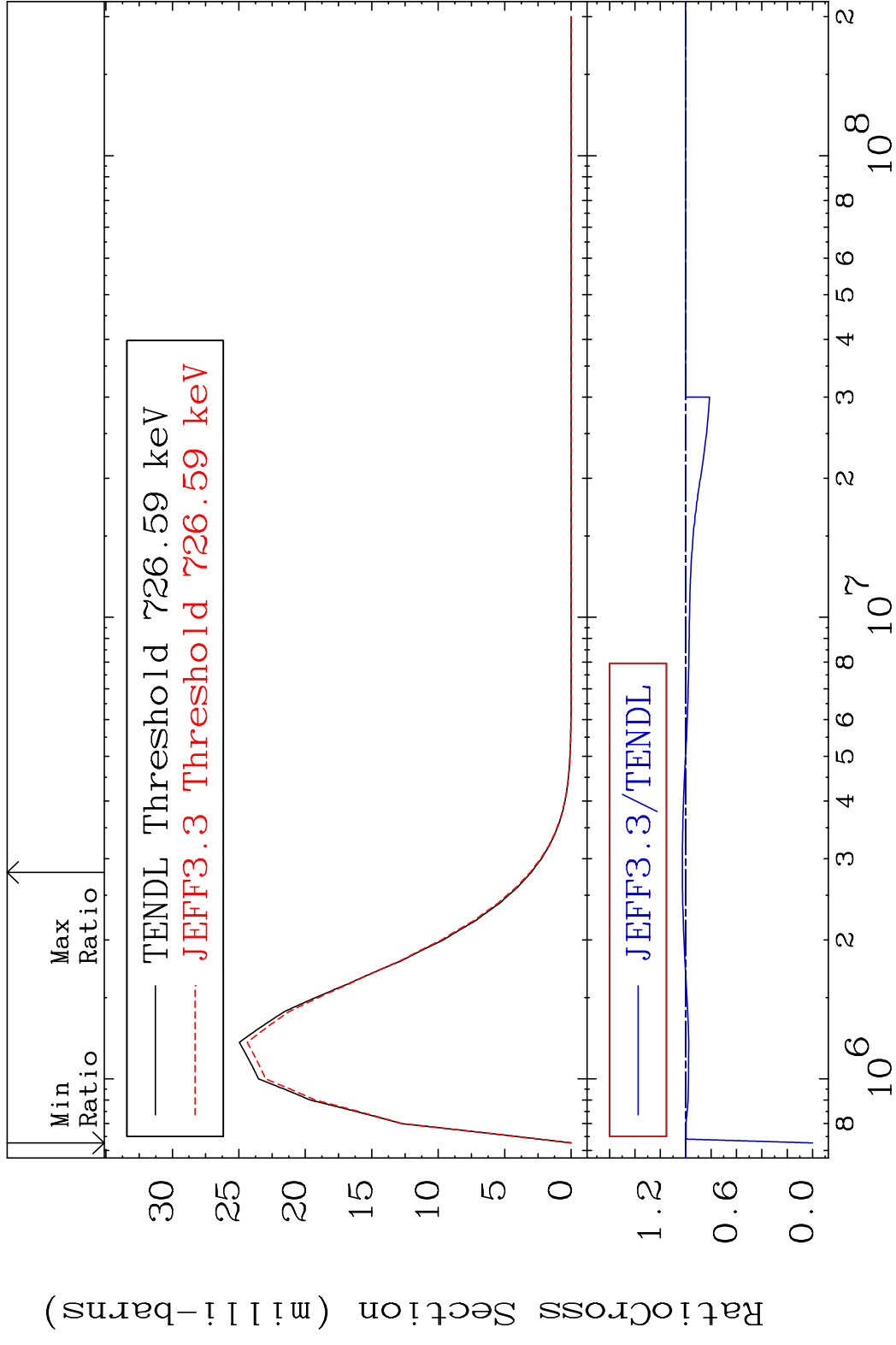


MAT 7028 MT= 74 (n,n') Level 70-Yb-169
 Cross Section -100.0 To 2.374 %



43 Incident Energy (eV) 70-Yb-169

MAT 7028 MT= 75 (n,n') Level 70-Yb-169
 Cross Section -100.0 To 2.620 %

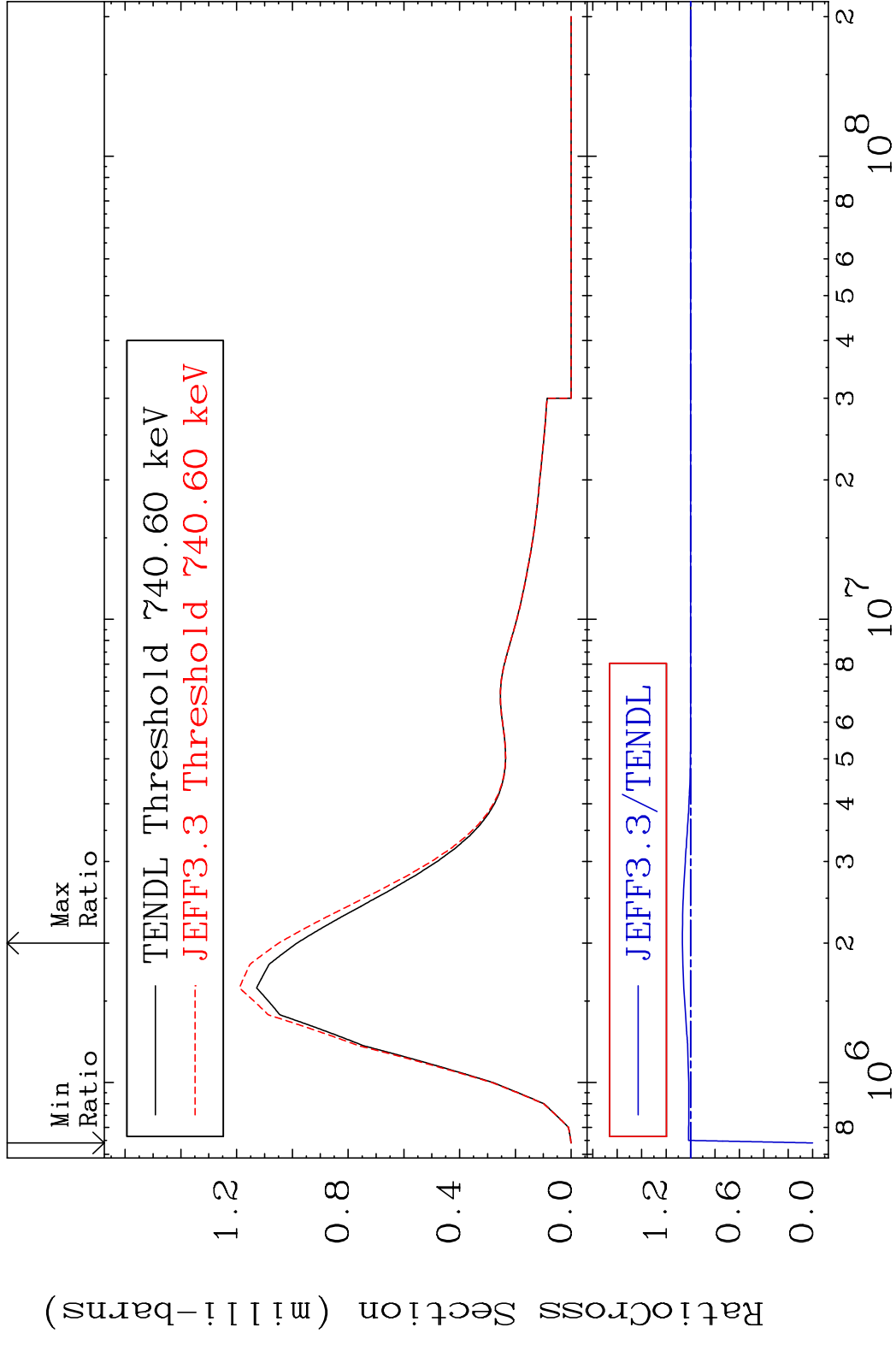


MAT 7028

MT= 76 (n,n') Level

70-Yb-169

Cross Section -100.0 To 6.673 %

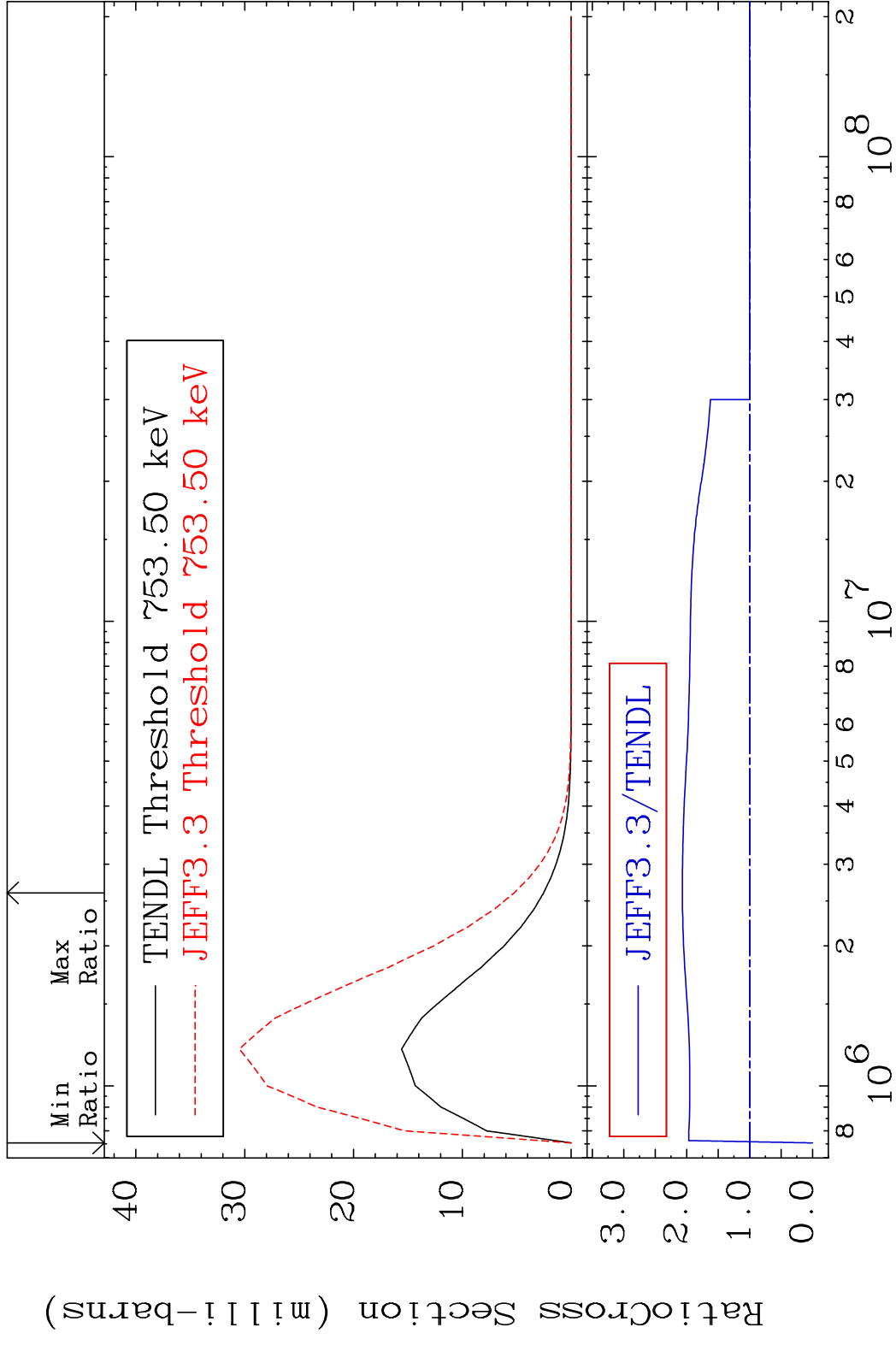


45

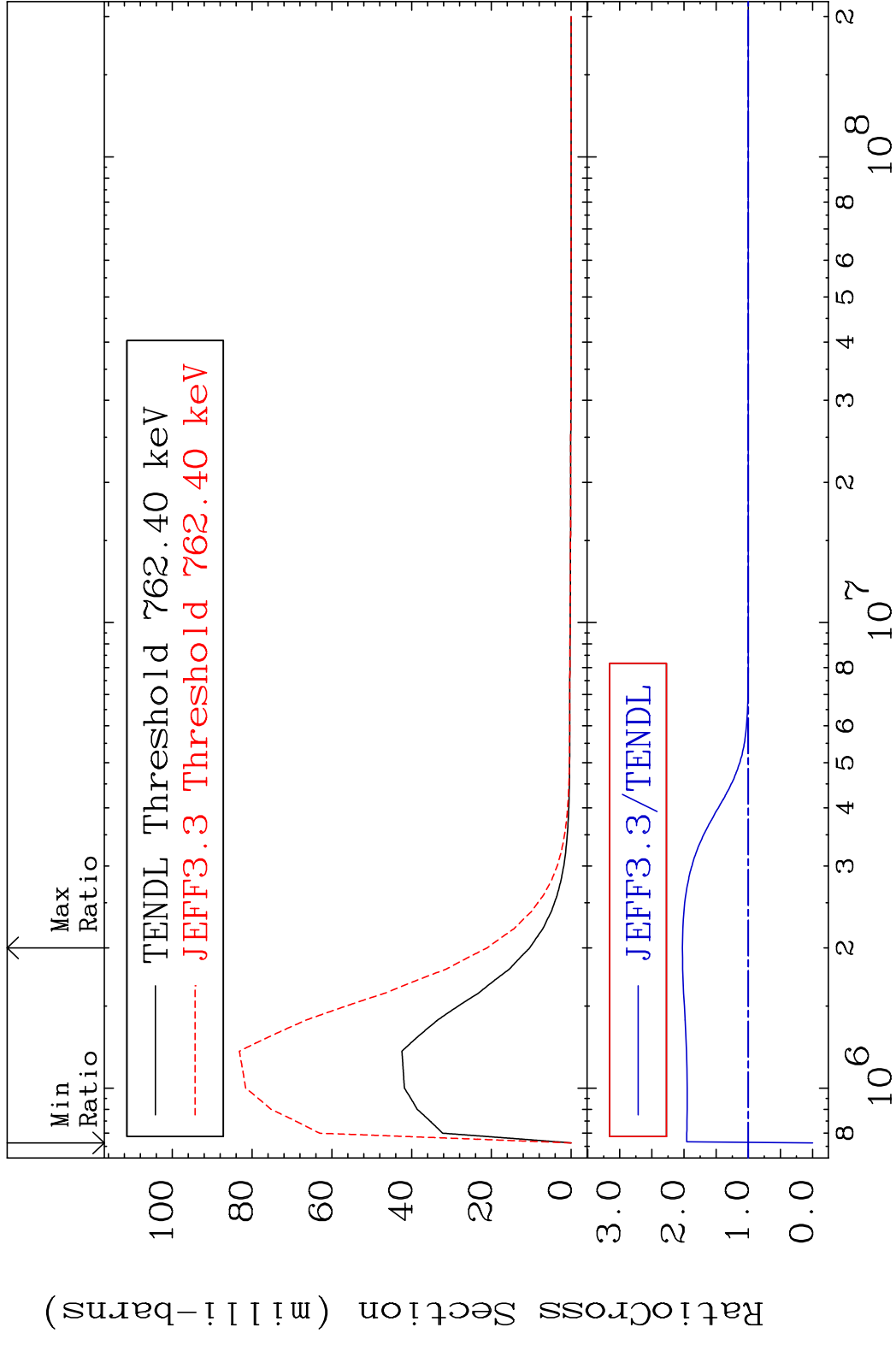
Incident Energy (eV)

70-Yb-169

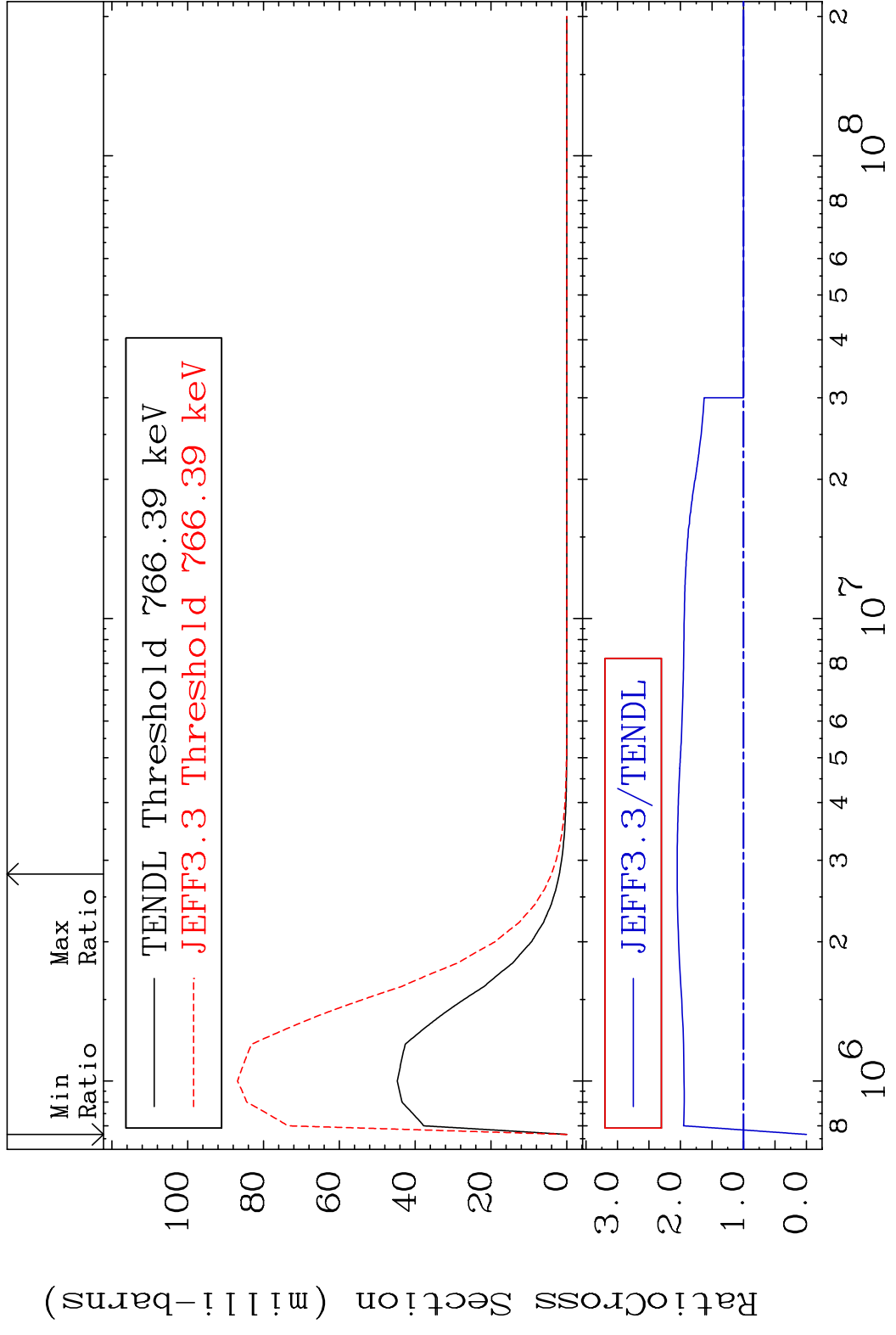
MAT 7028 MT= 77 (n, n') Level 70-Yb-169
 Cross Section -100.0 To 106.9 %



MAT 7028 MT= 78 (n, n') Level 70-Yb-169
 Cross Section -100.0 To 102.6 %

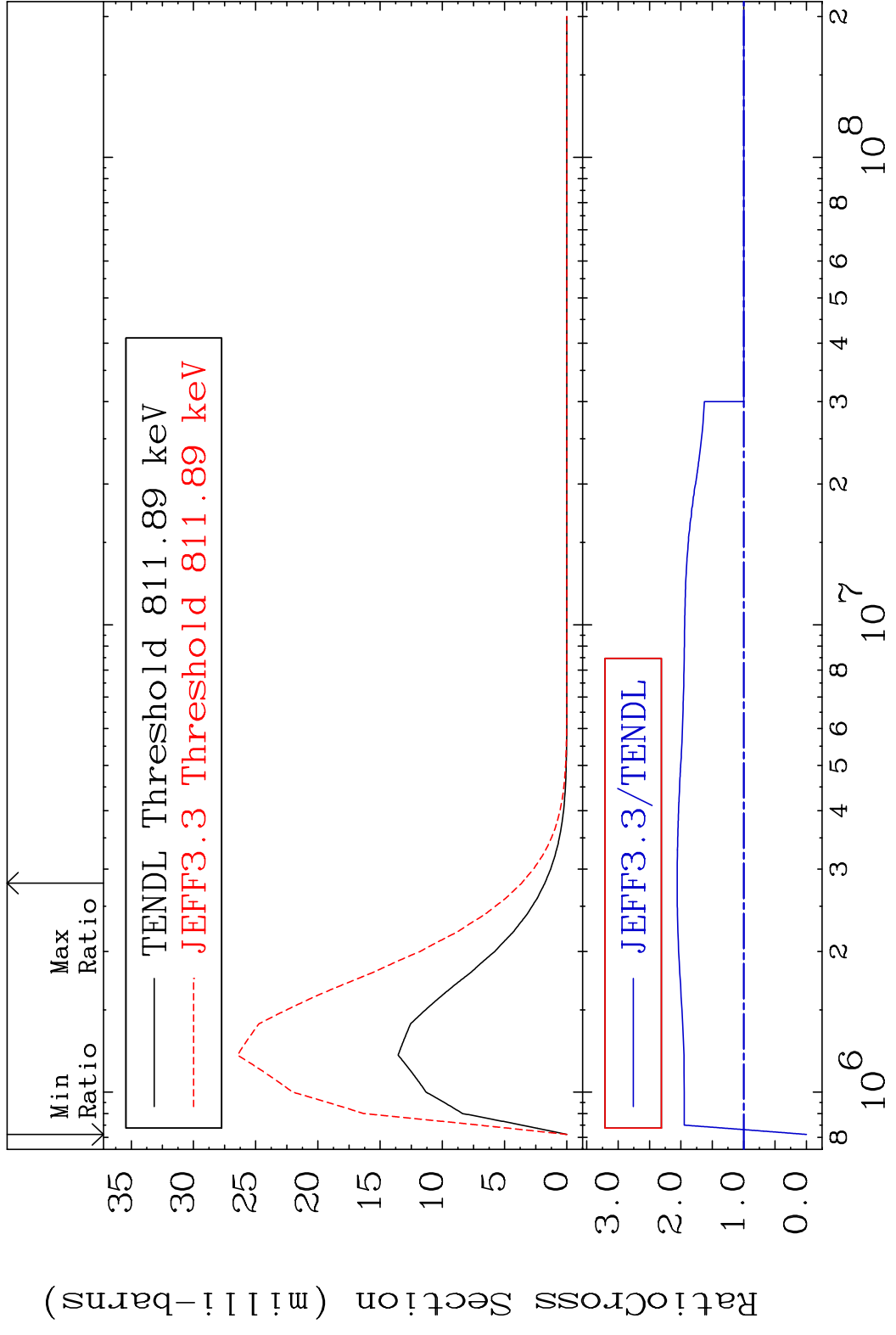


MAT 7028 MT= 79 (n, n') Level 70-Yb-169
 Cross Section -100.0 To 105.3 %



48 Incident Energy (eV) 70-Yb-169

MAT 7028 MT= 80 (n, n') Level 70-Yb-169
 Cross Section -100.0 To 105.9 %

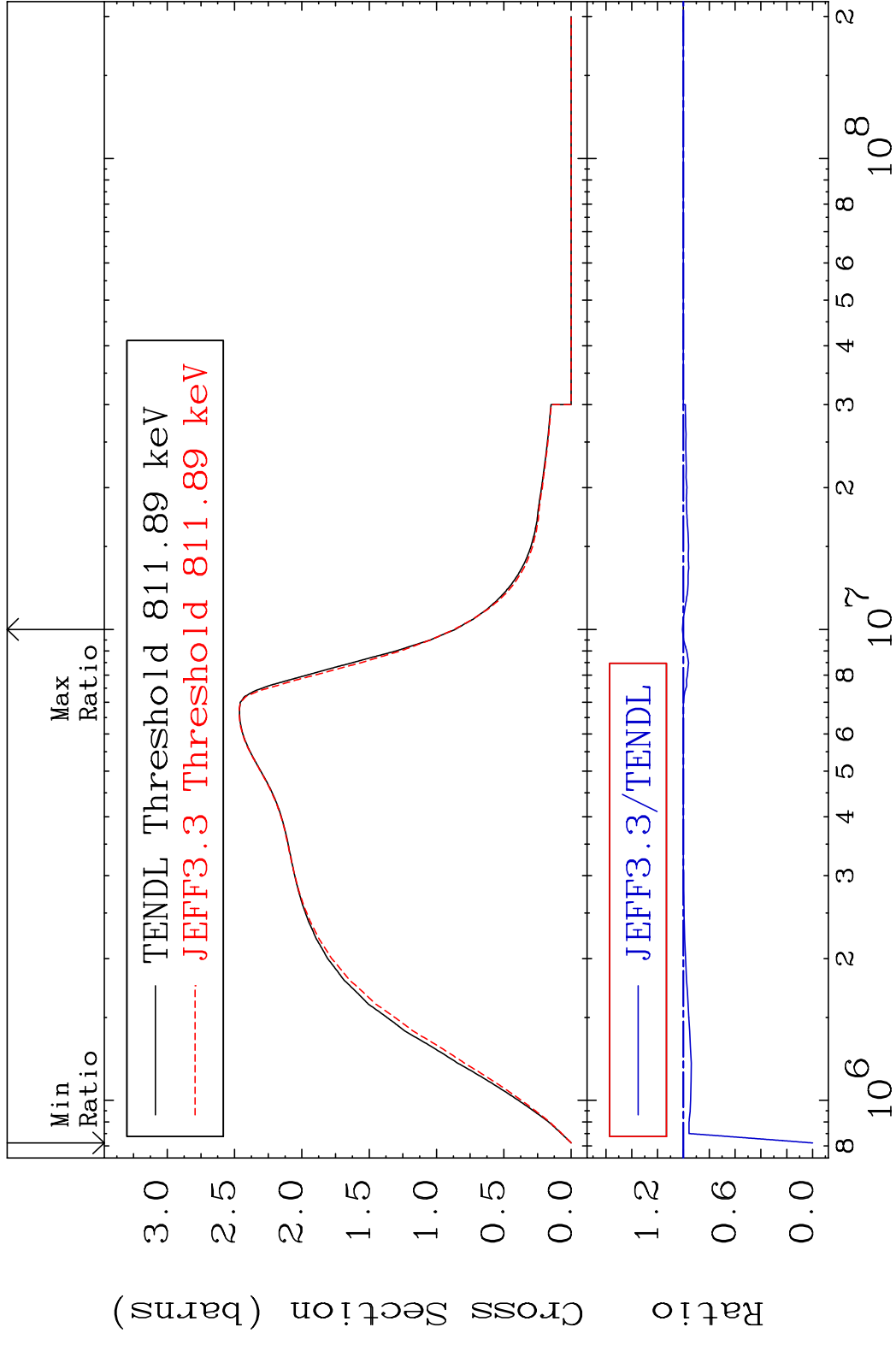


49 Incident Energy (eV) 70-Yb-169

MAT 7028

(n, n') Continuum
Cross Section -100.0 To 0.813 %

70-Yb-169



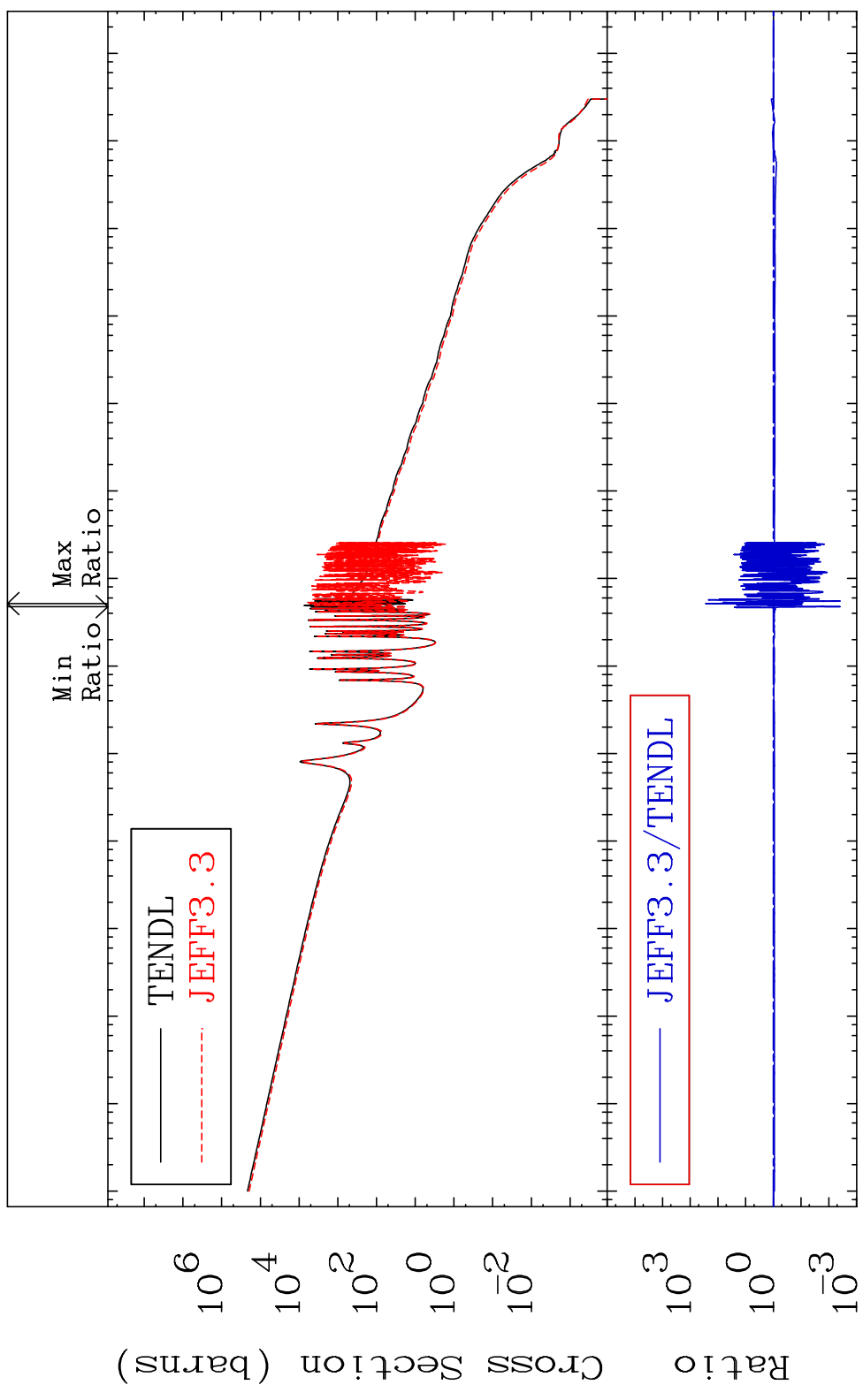
50

Incident Energy (eV)

70-Yb-169

MAT 7028

(n, γ)
Cross Section -99.62 To 9999. %

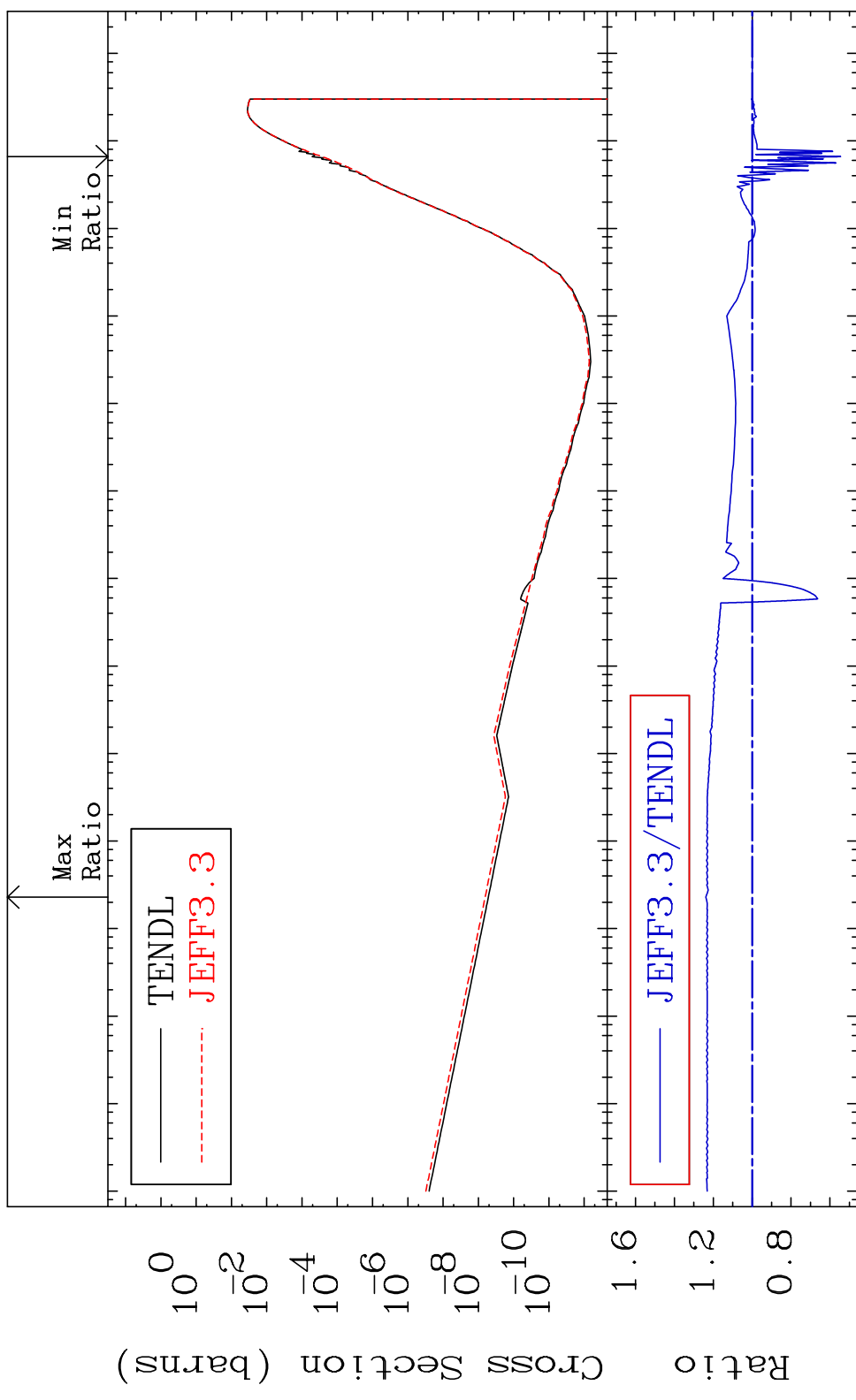


MAT 7028

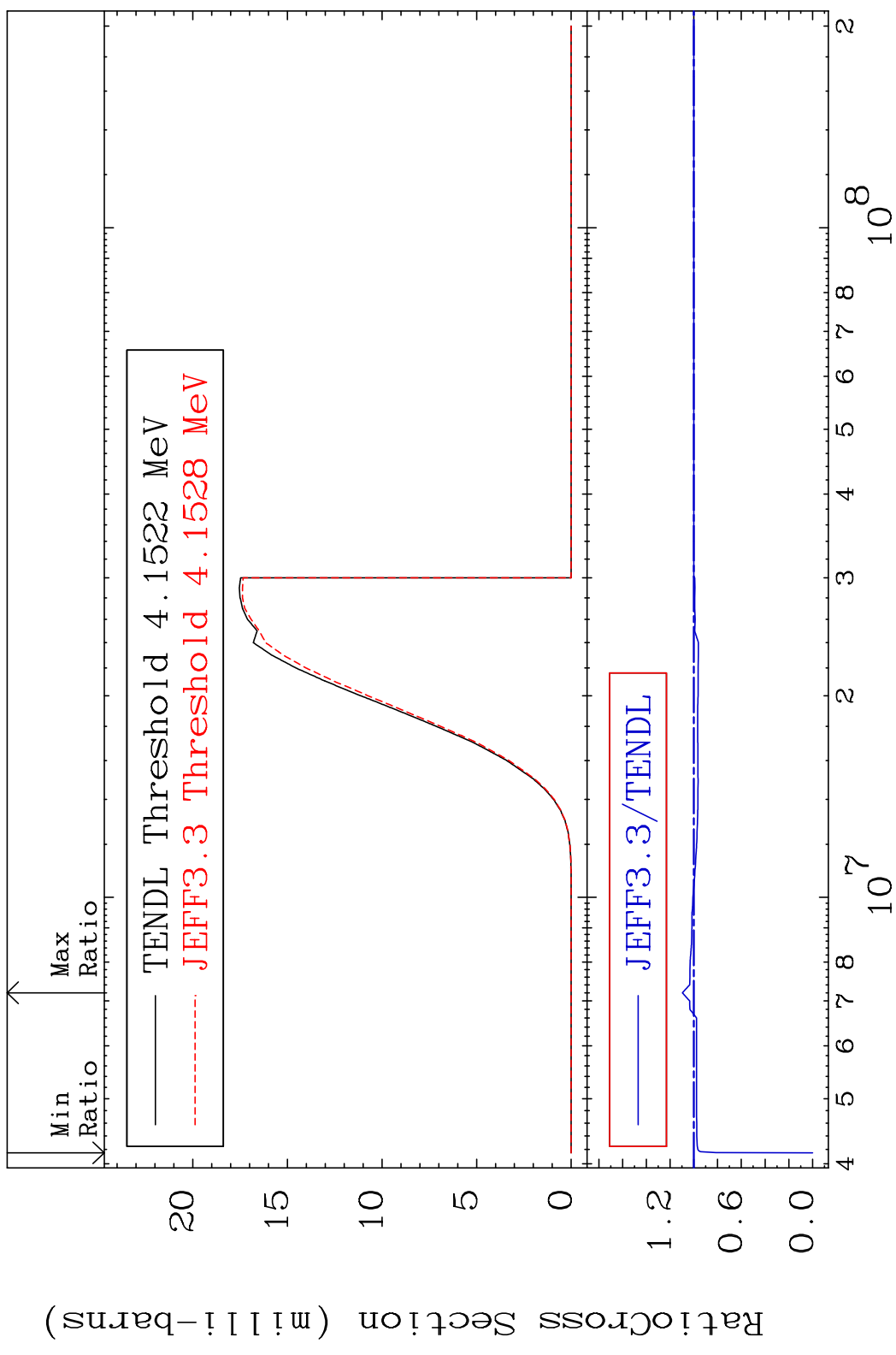
(n, p)

70-Yb-169

Cross Section -45.40 To 23.86 %



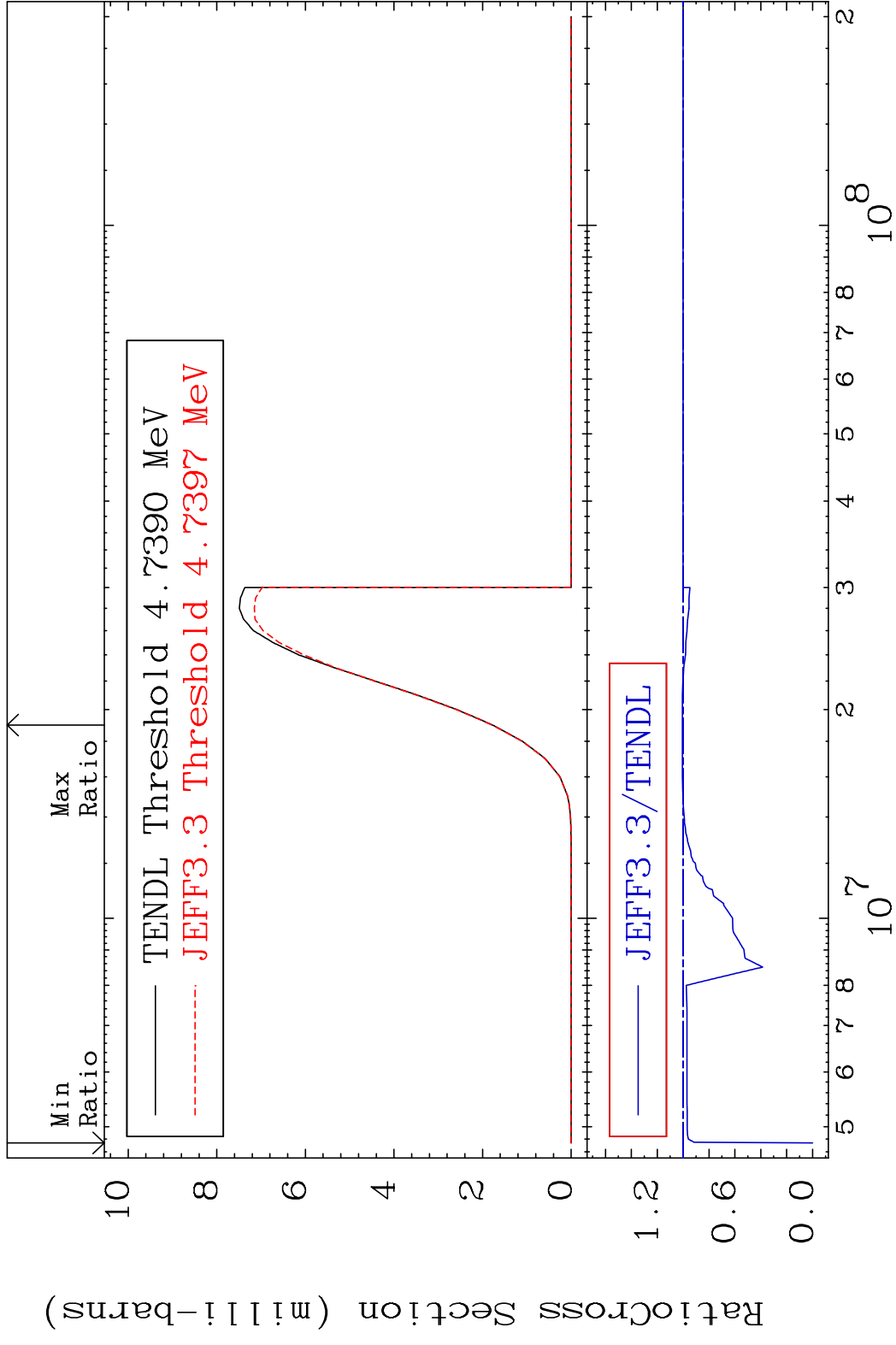
Cross Section -100.0 To 9.667 %



MAT 7028

(n, t) 70-Yb-169

Cross Section -100.0 To 0.584 %

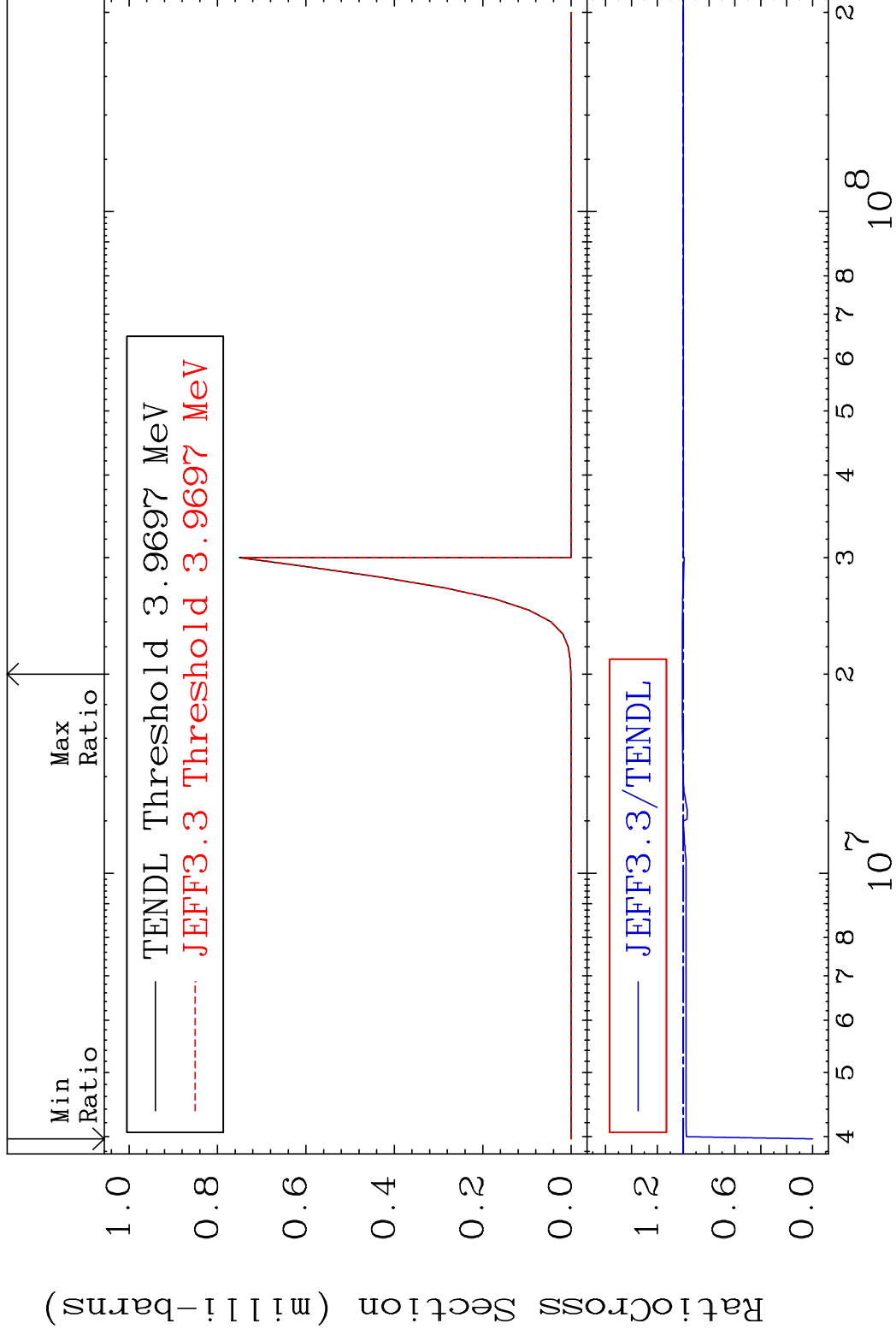


MAT 7028

(n, He-3)

70-Yb-169

Cross Section -100.0 To 0.655 %

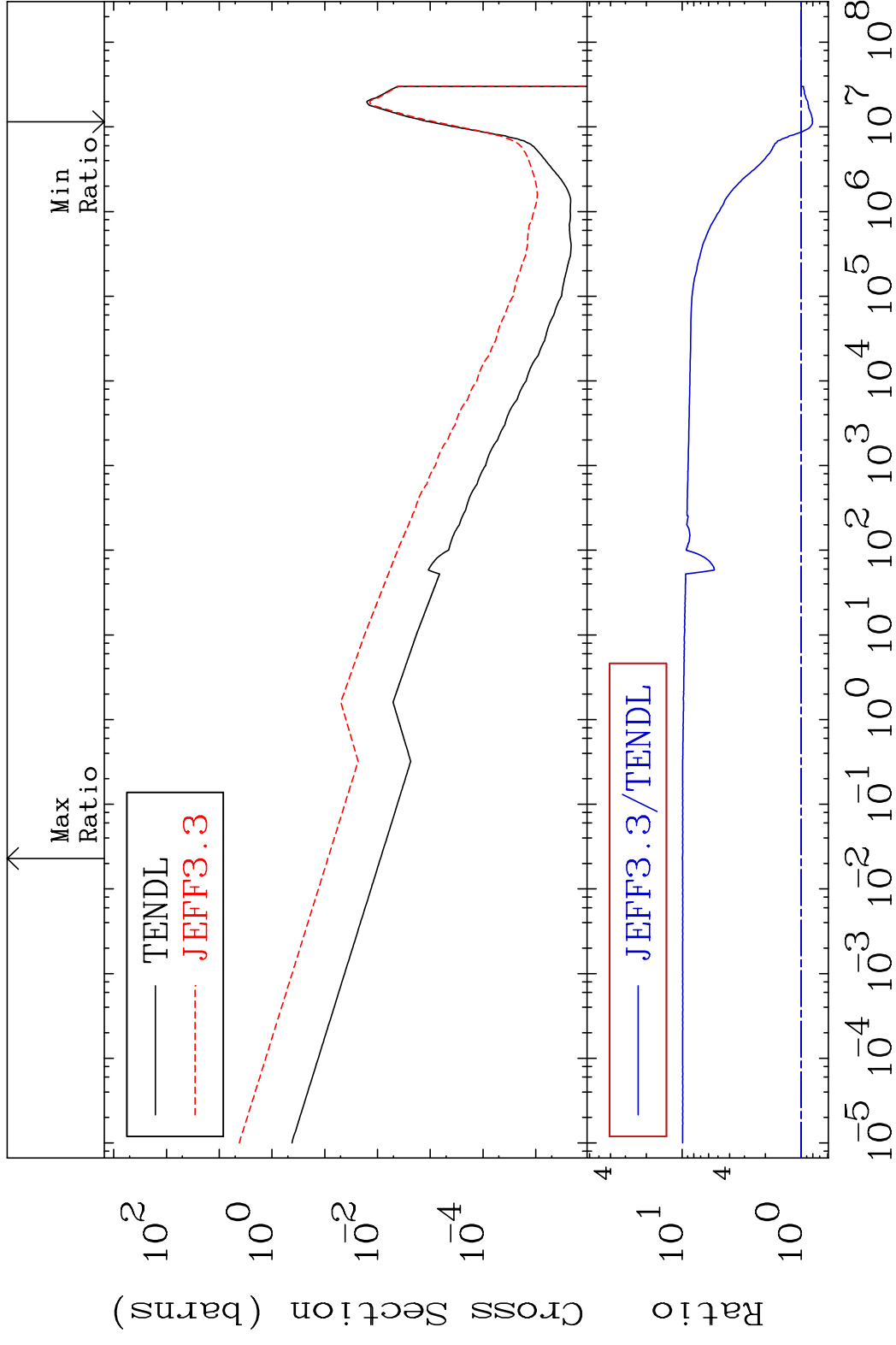


MAT 7028

70-Yb-169

(n, α)

Cross Section -19.61 To 897.3 %

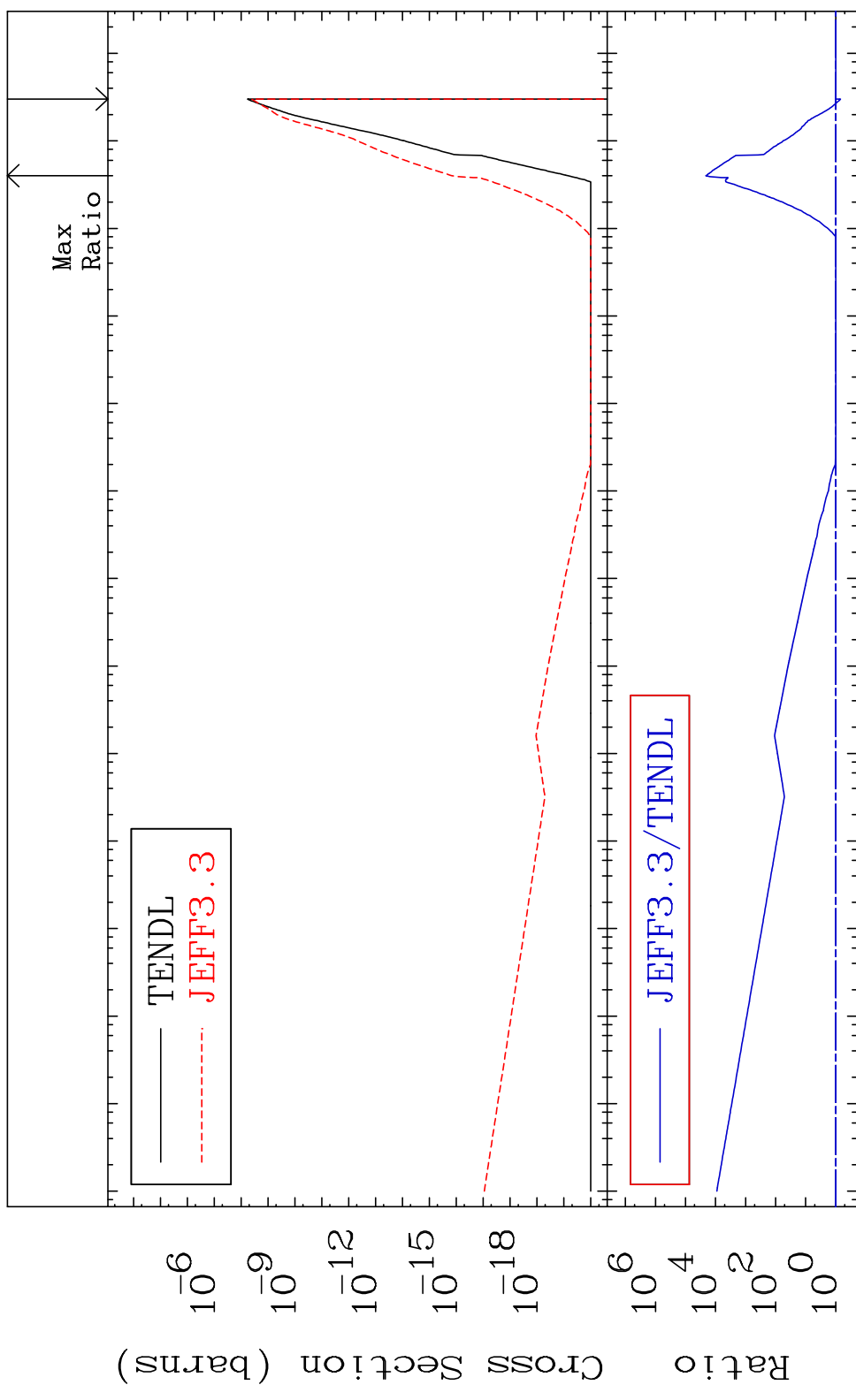


MAT 7028

(n, 2α)

70-Yb-169

Cross Section -30.51 To 9999. %

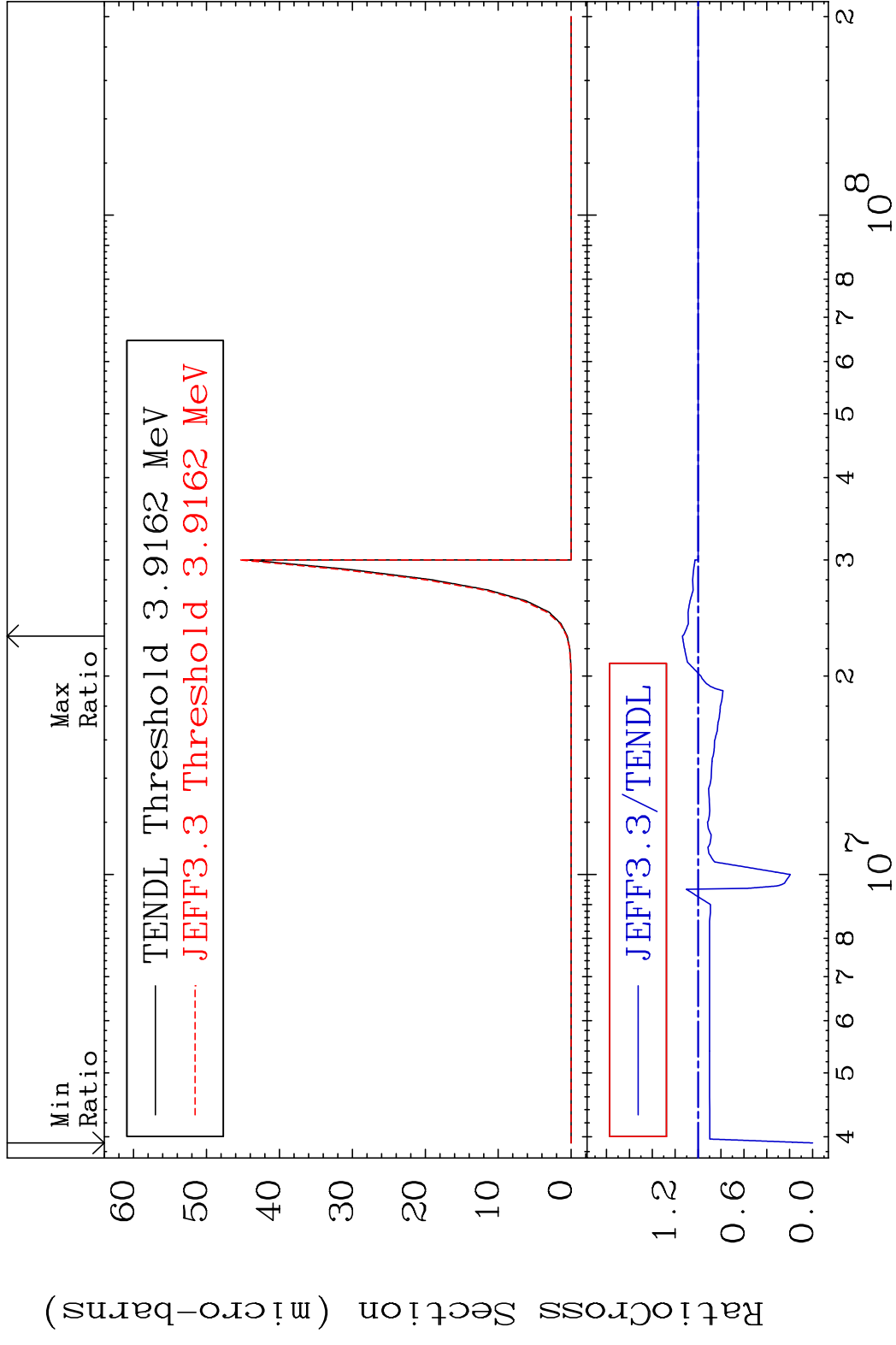


MAT 7028

(n,2p)

70-Yb-169

Cross Section -100.0 To 13.75 %

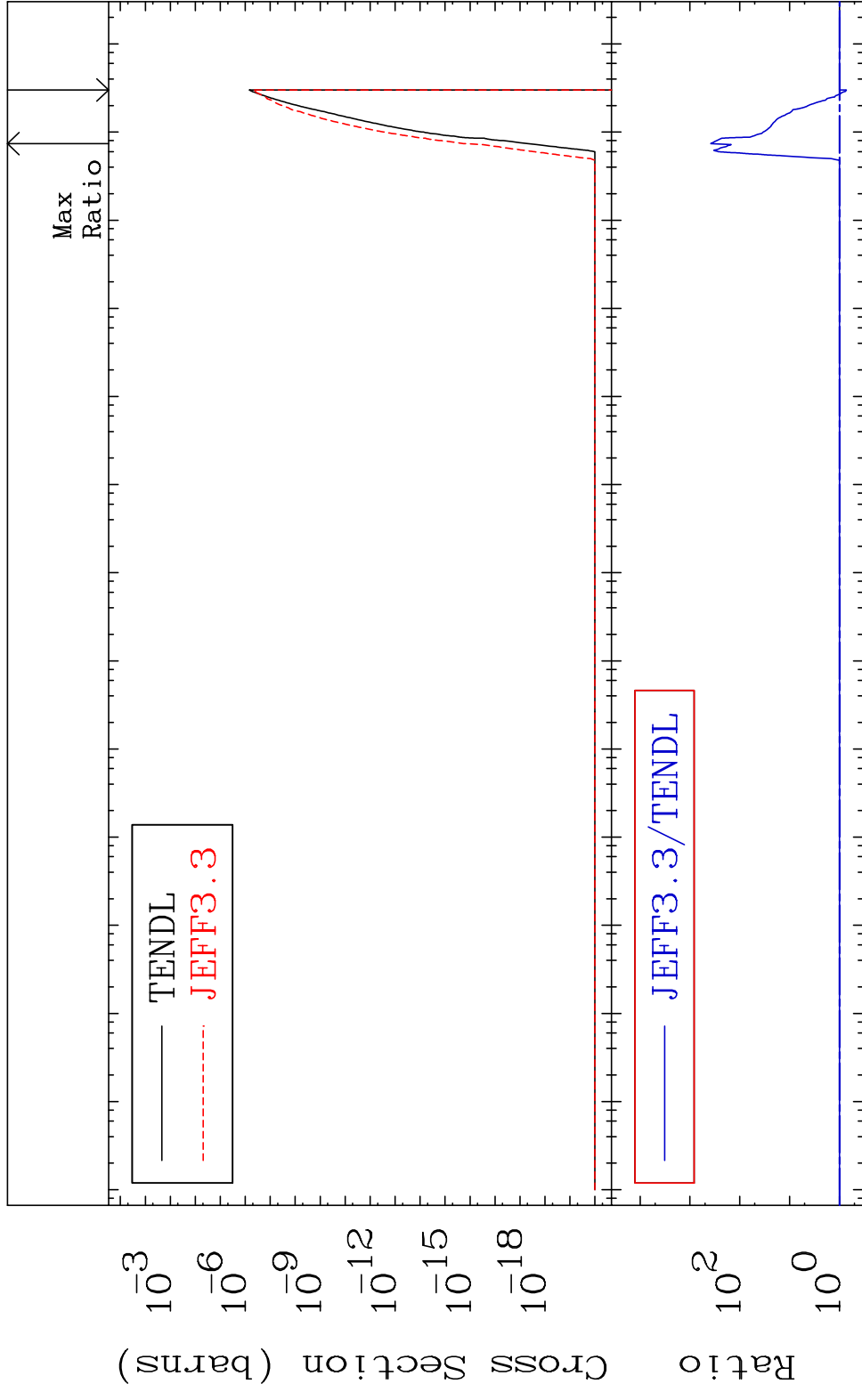


MAT 7028

(n,p) α

70-Yb-169

Cross Section -27.42 To 9999. %

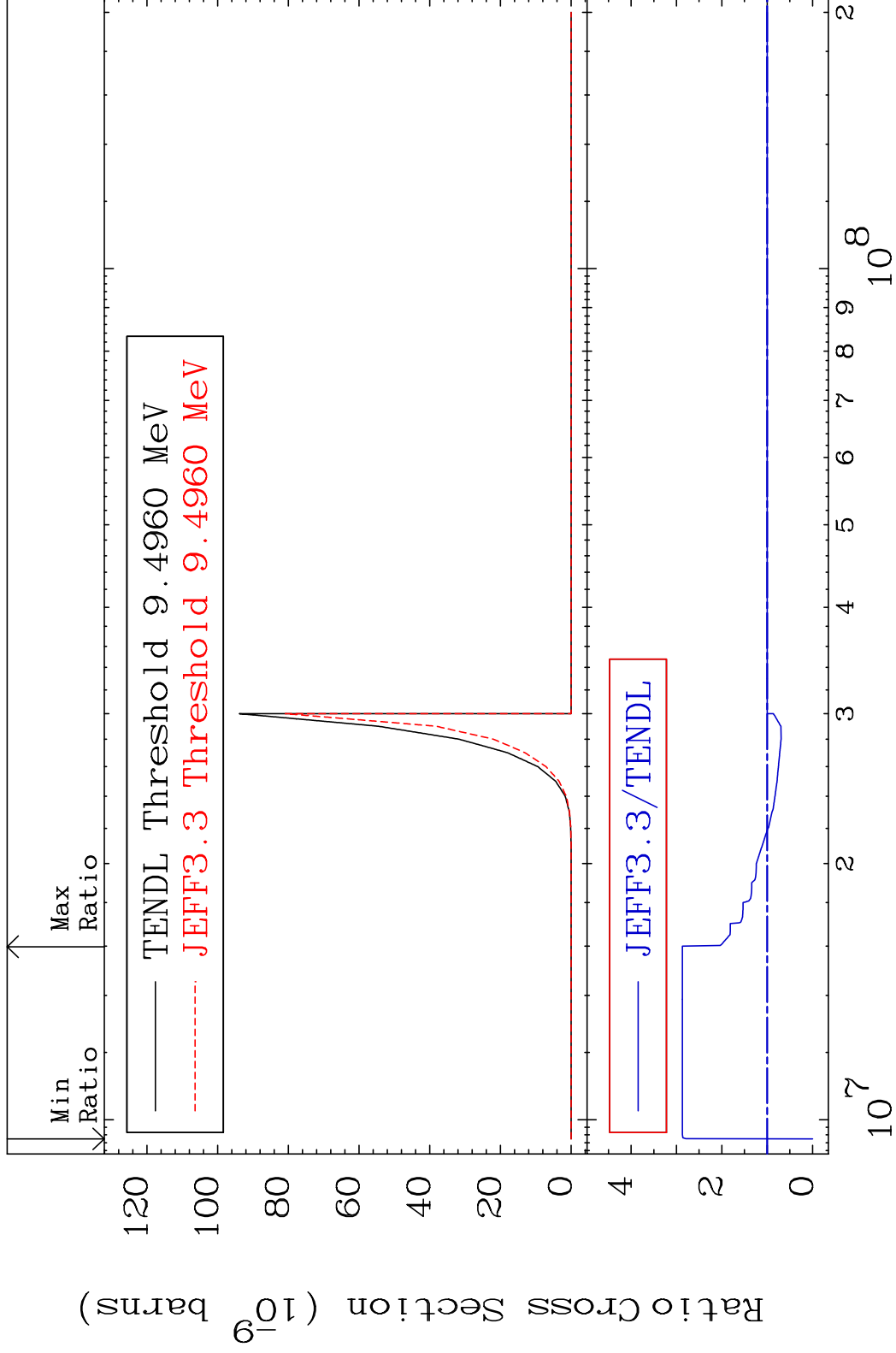


MAT 7028

(n,p) d

70-Yb-169

Cross Section -100.0 To 187.0 %



60

Incident Energy (eV)

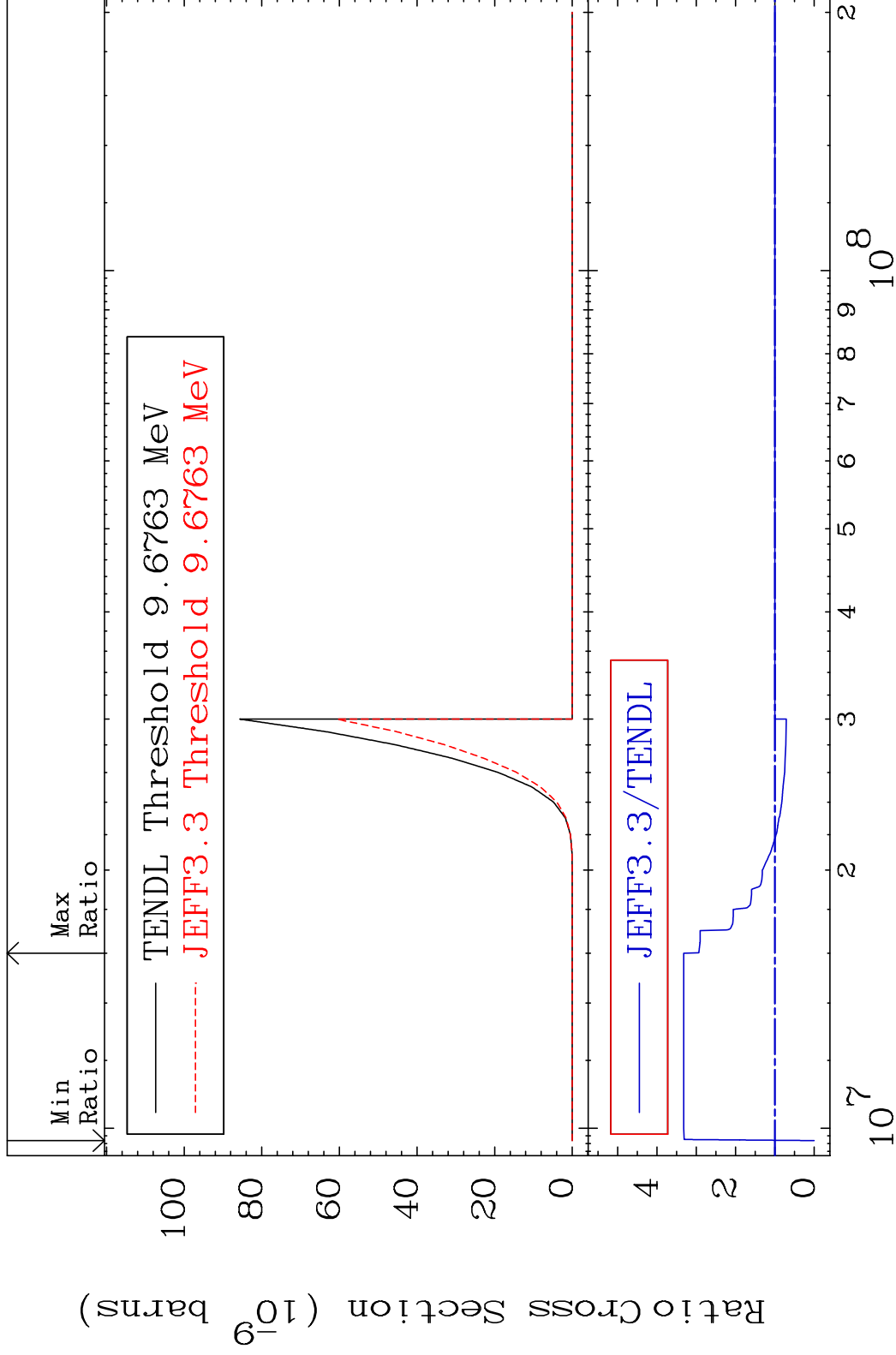
70-Yb-169

MAT 7028

(n,p) t

70-Yb-169

Cross Section -100.0 To 232.0 %

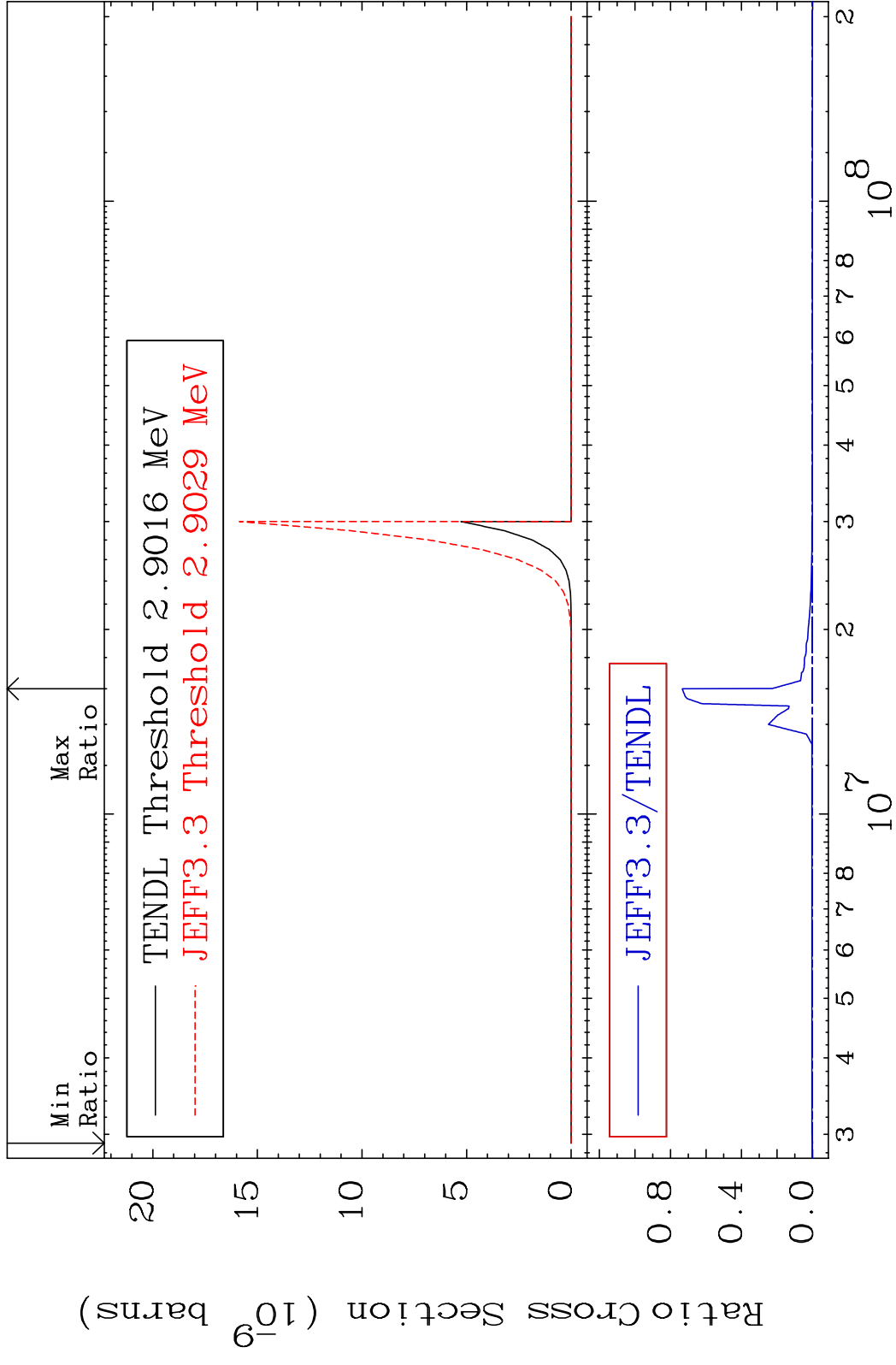


61

Incident Energy (eV)

70-Yb-169

MAT 7028 (n,d) α 70-Yb-169
 Cross Section -100.0 To 9999. %

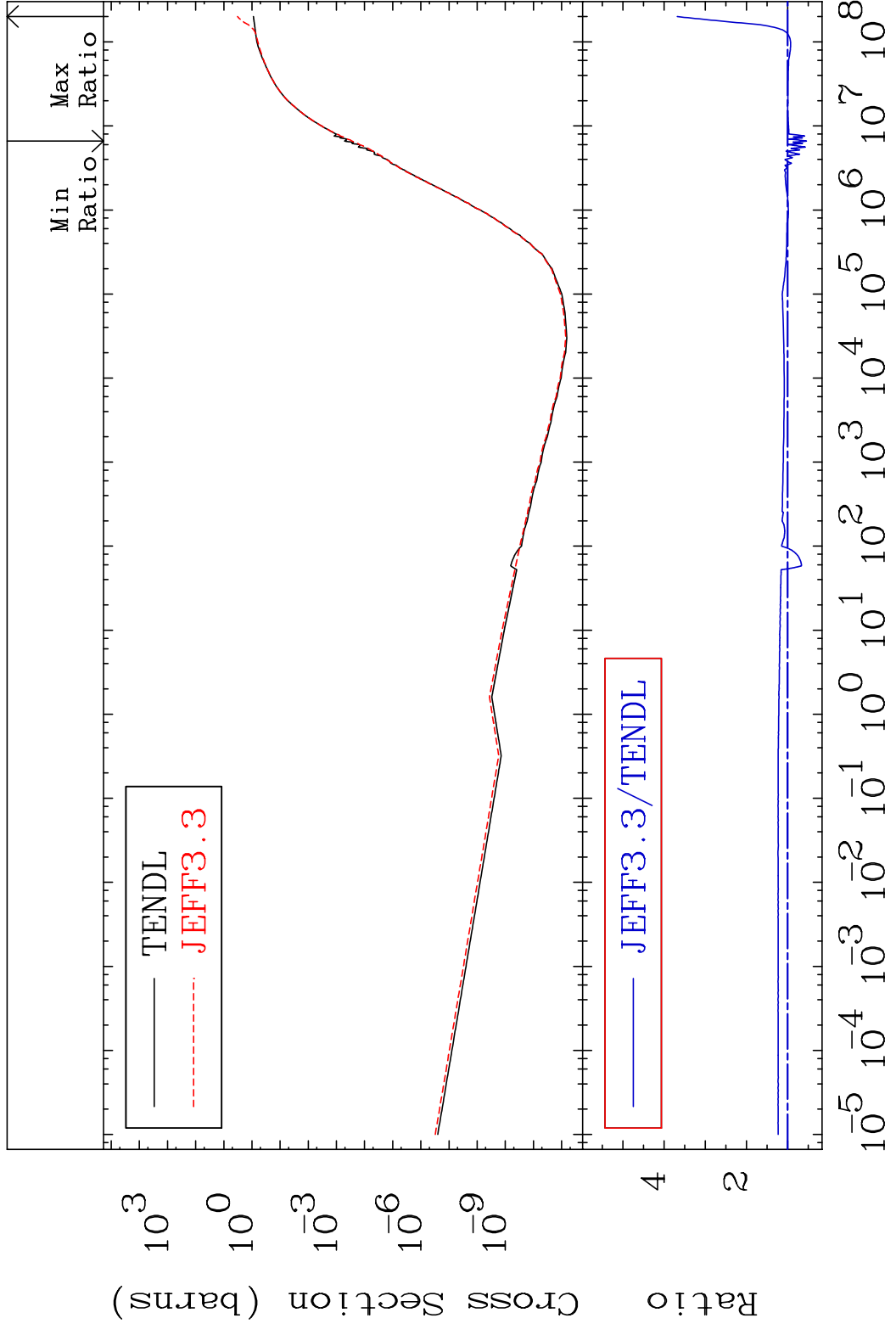


MAT 7028

Hydrogen Production

70-Yb-169

Cross Section -45.40 To 268.1 %



63

Incident Energy (eV)

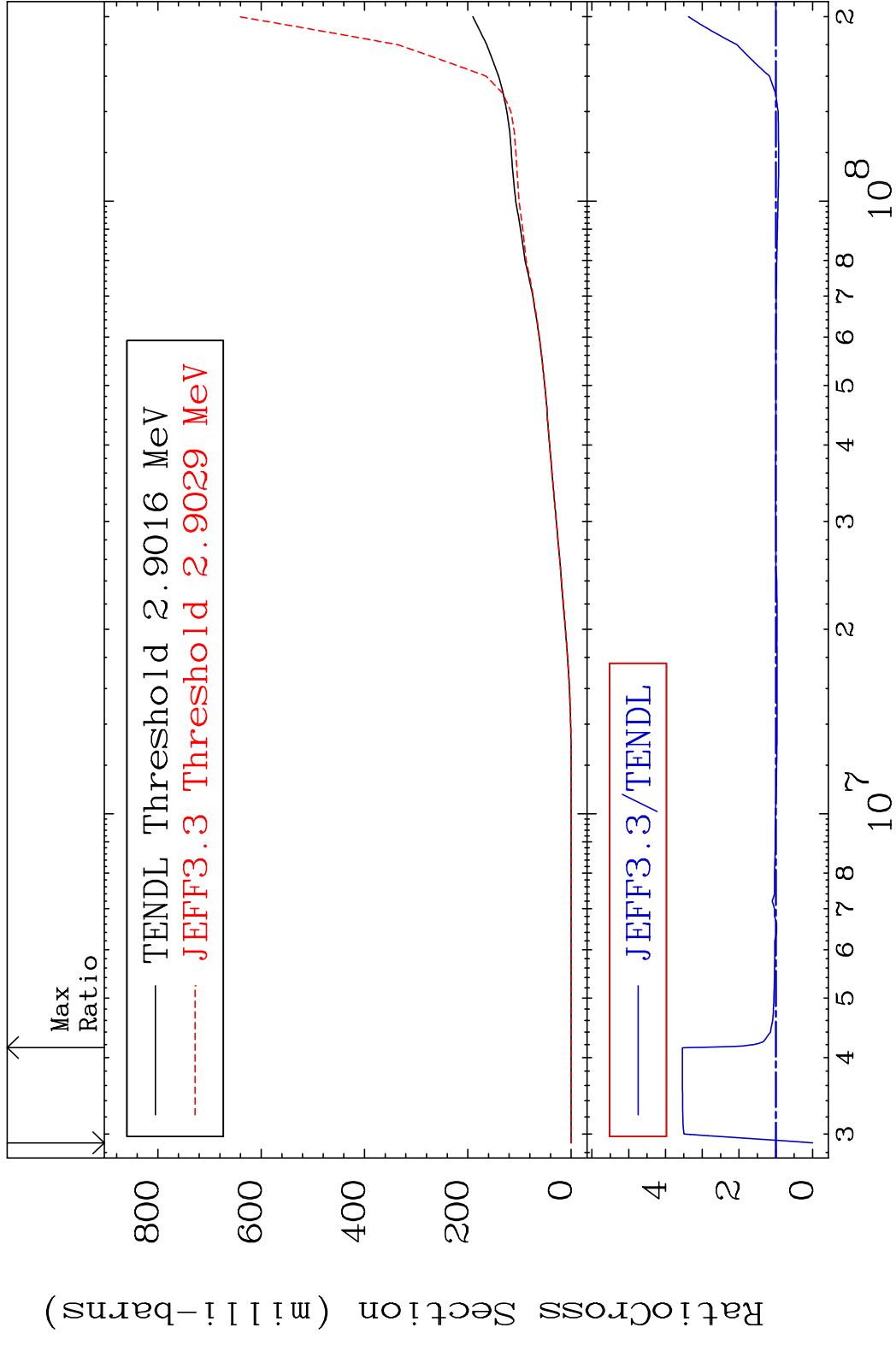
70-Yb-169

MAT 7028

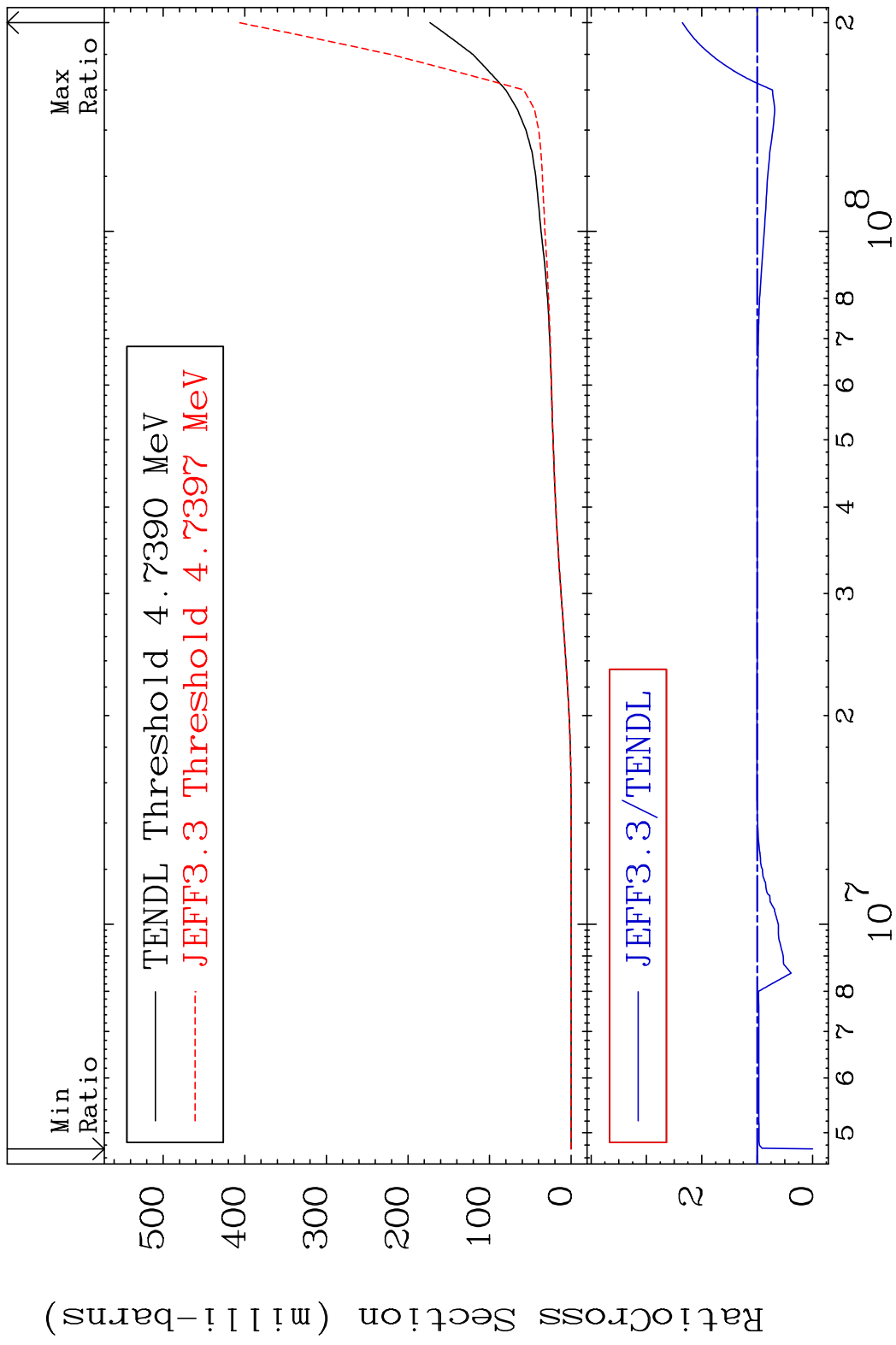
Deuterium Production

70-Yb-169

Cross Section -100.0 To 254.1 %



MAT 7028 Tritium Production 70-Yb-169
 Cross Section -100.0 To 135.1 %

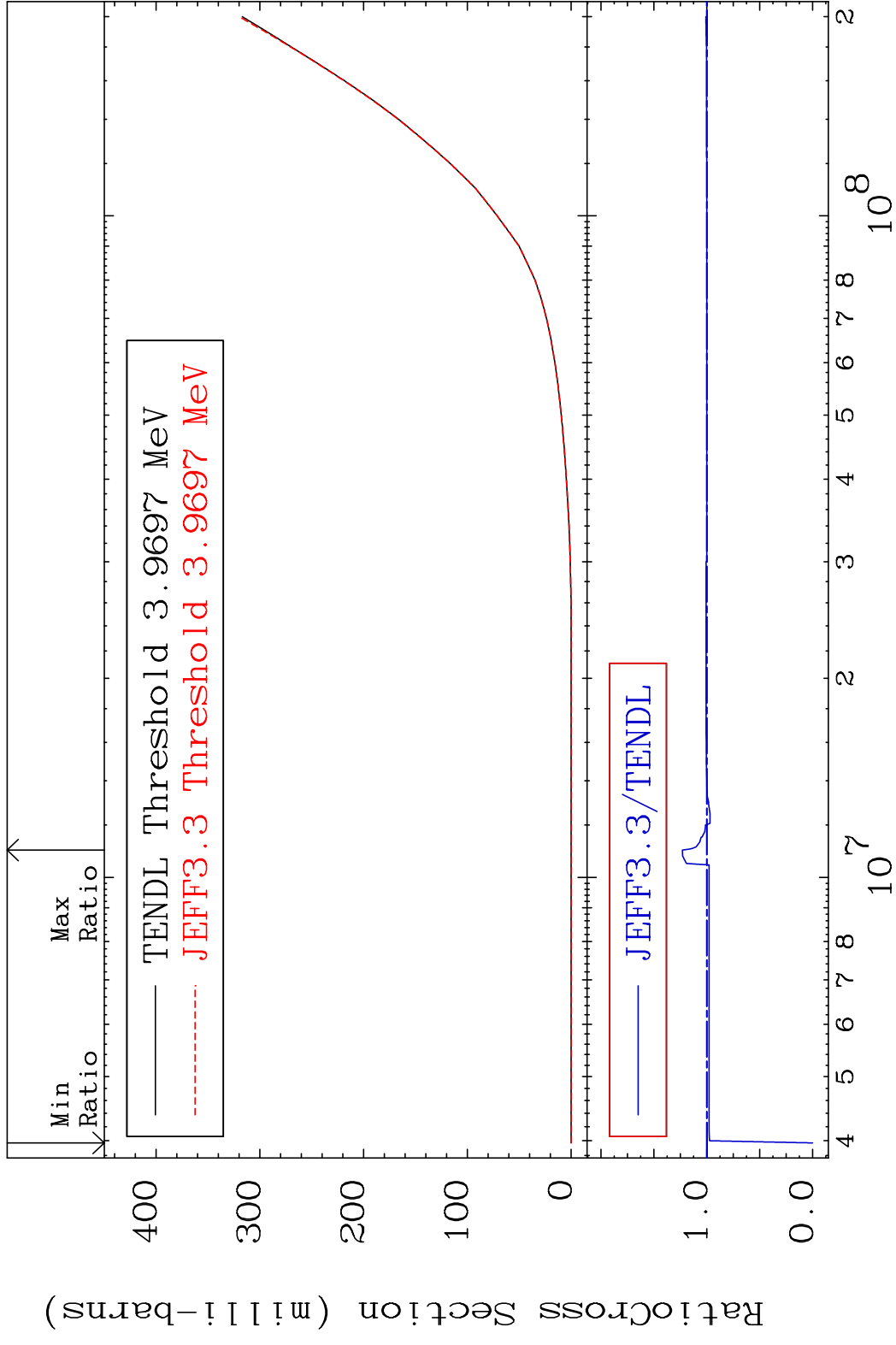


MAT 7028

He-3 Production

70-Yb-169

Cross Section -100.0 To 23.10 %

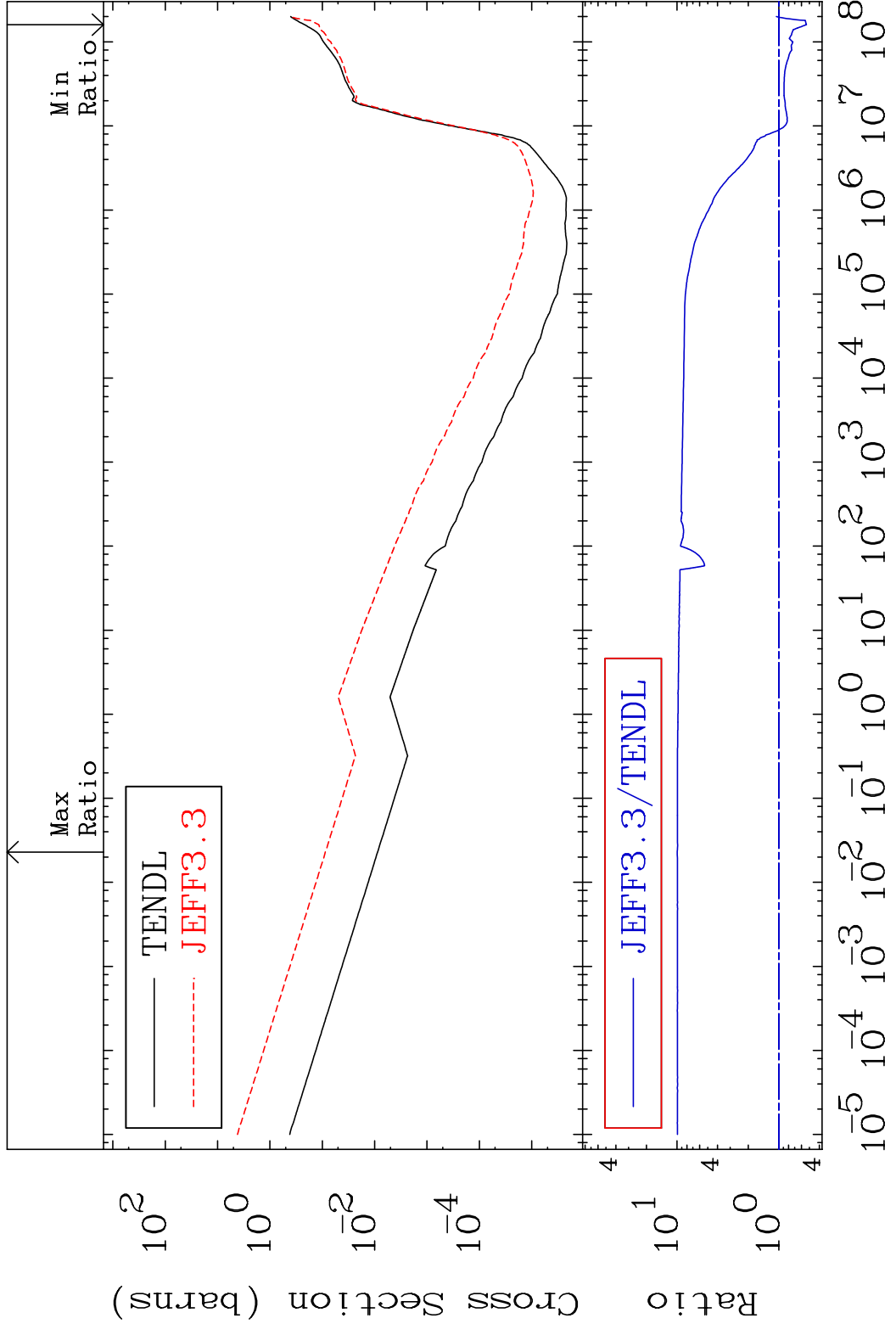


MAT 7028

He-4 Production

70-Yb-169

Cross Section -46.44 To 897.3 %

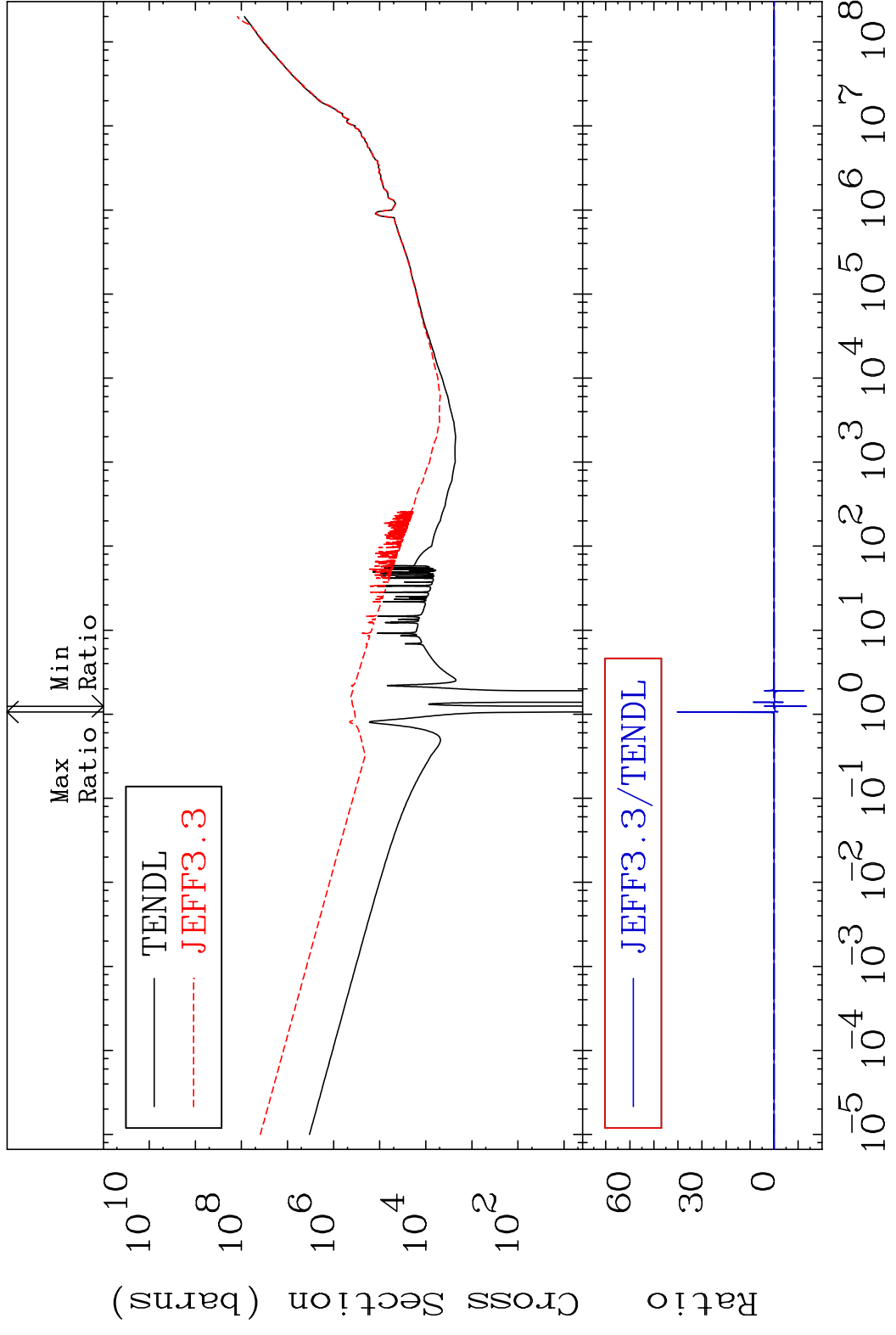


67

Incident Energy (eV)

70-Yb-169

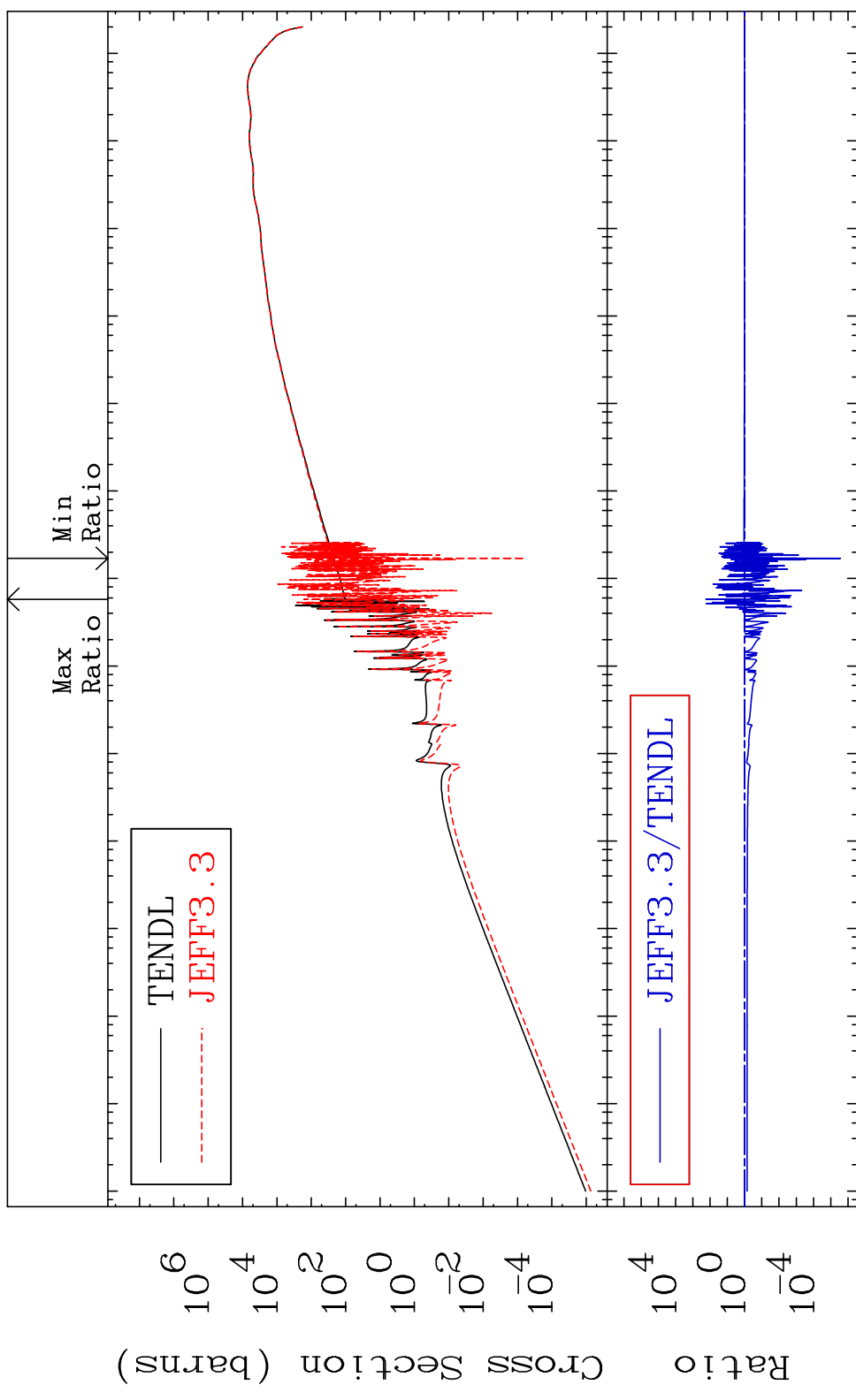
MAT 7028 Kerma total (eV-barns) 70-Yb-169
 Cross Section -9999. To 9999. %



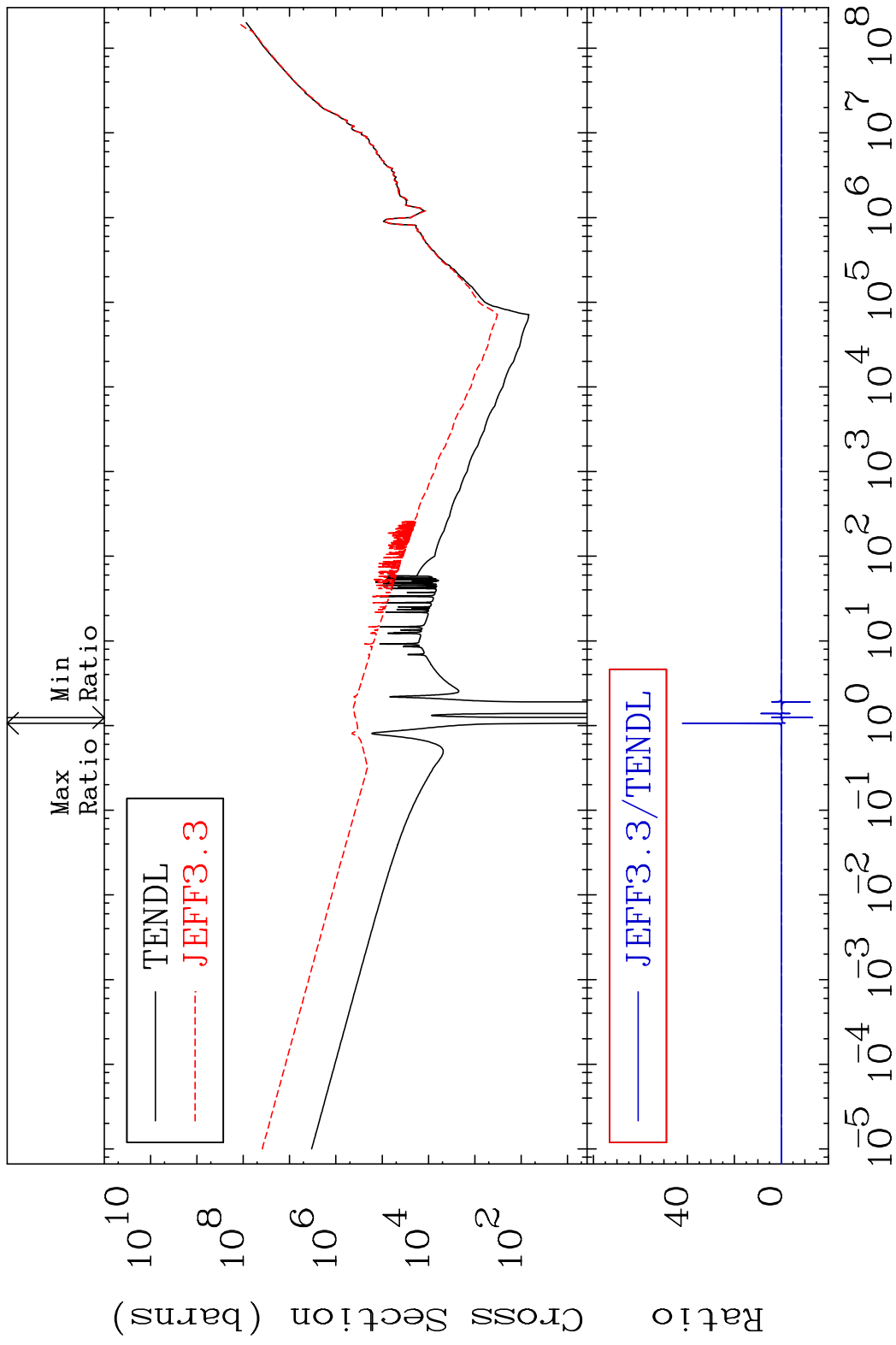
68 Incident Energy (eV) 70-Yb-169

MAT 7028

Kerma elastic Cross Section -100.0 To 9999. %
70-Yb-169

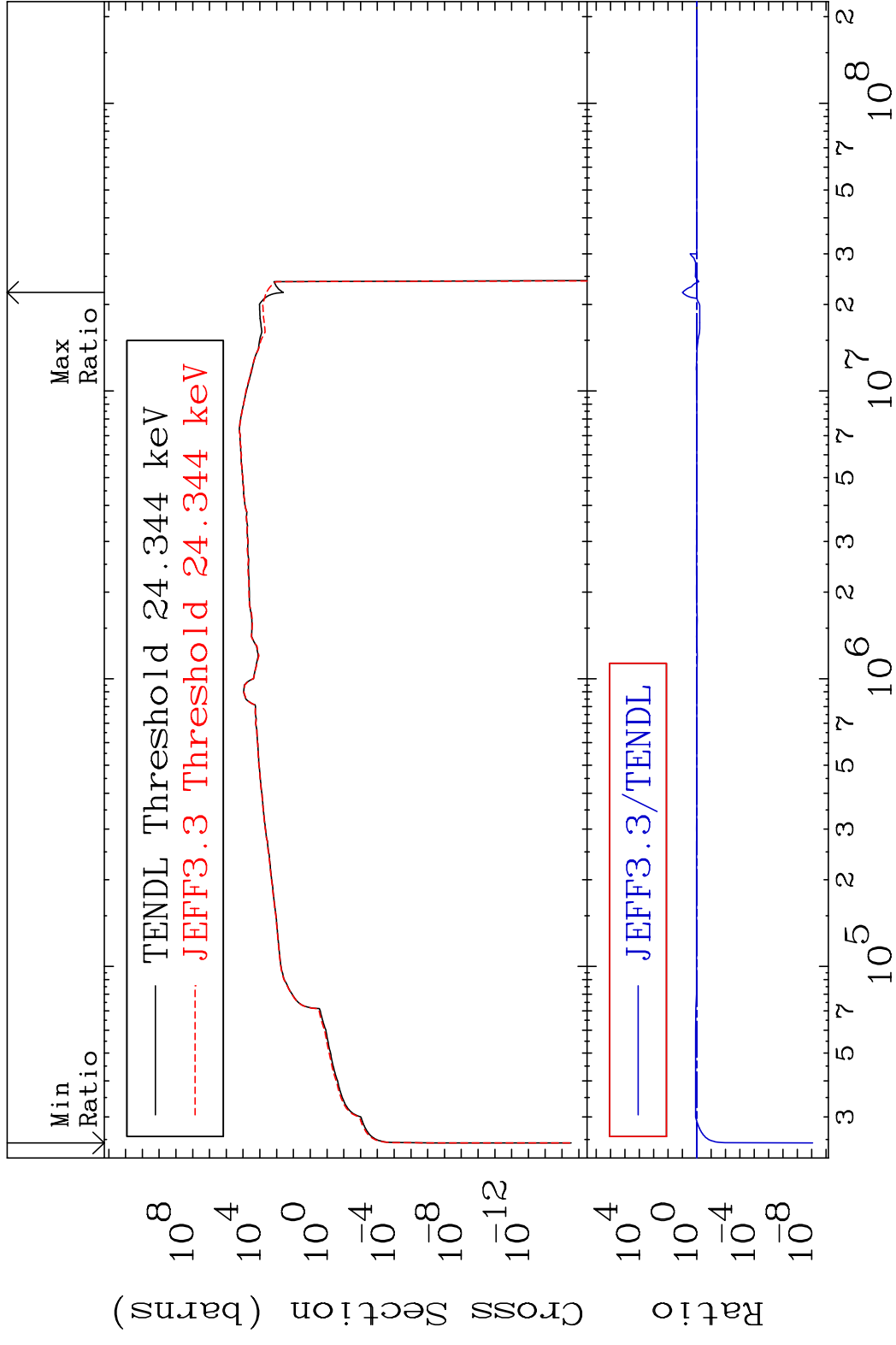


MAT 7028 Kerma non-elastic (all but mt2) 70-Yb-169
 Cross Section -9999. To 9999. %

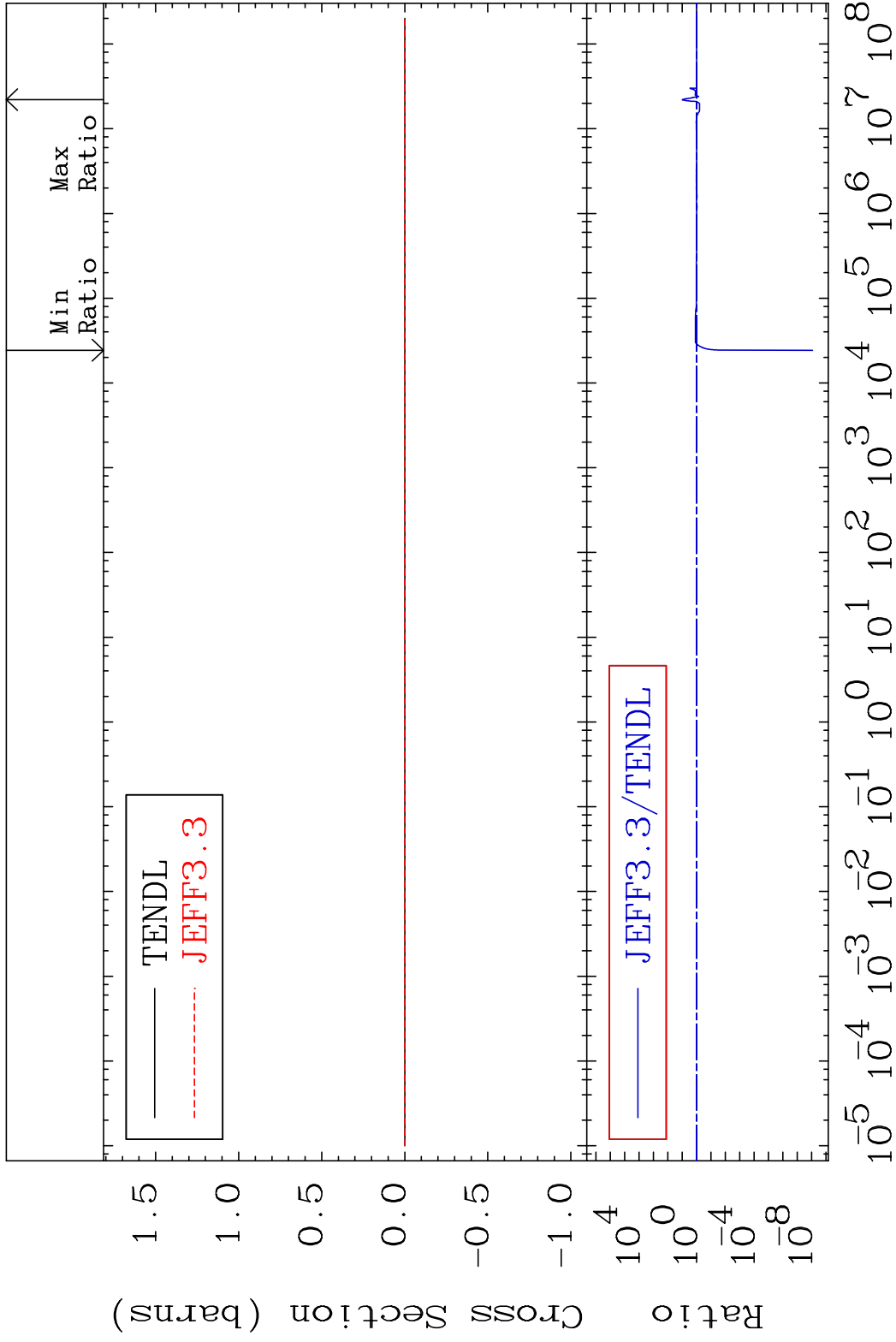


70 Incident Energy (eV) 70-Yb-169

MAT 7028 Kerma inelastic (mt51-91) 70-Yb-169
 Cross Section -100.0 To 911.1 %

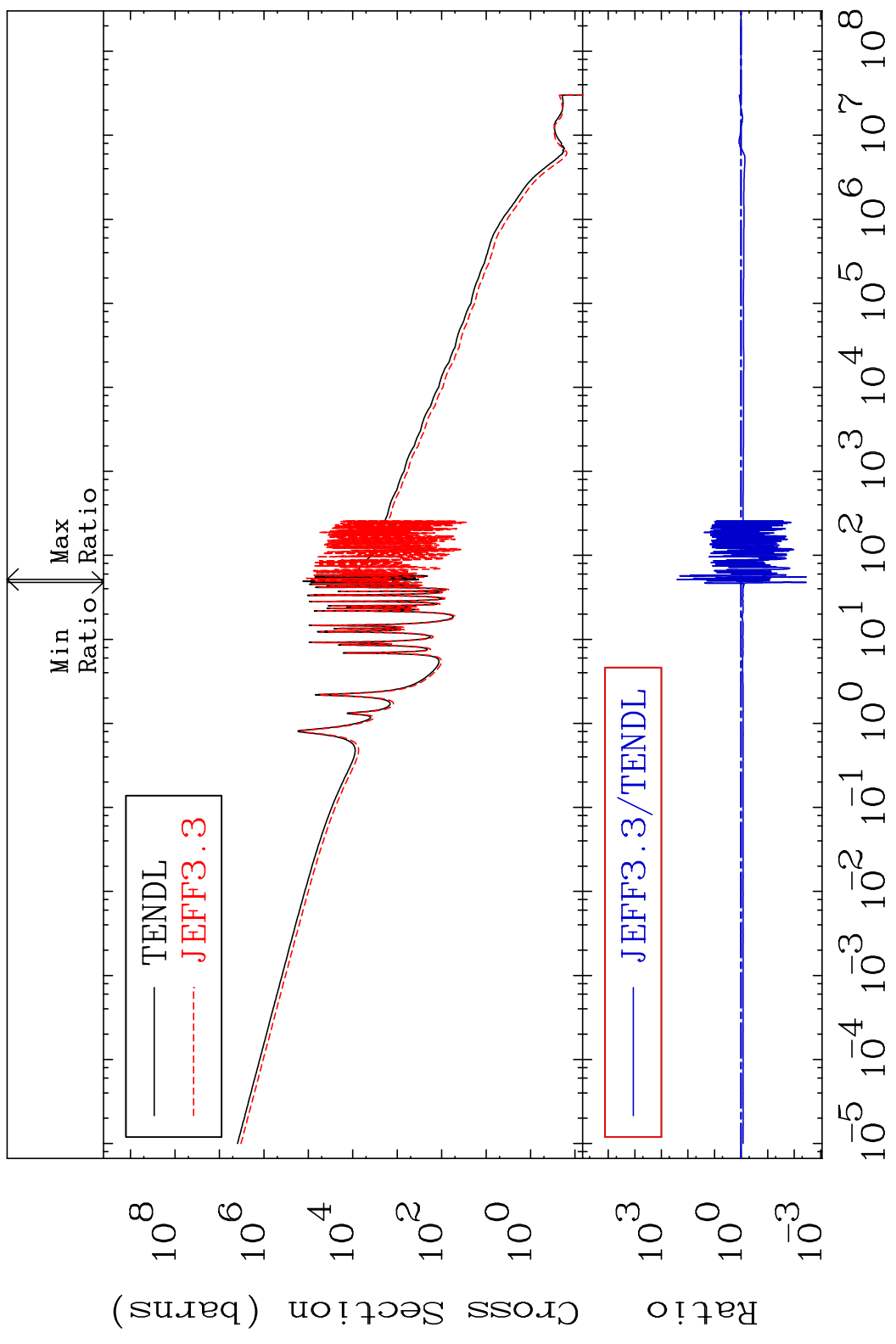


MAT 7028 Kerma fission (mt18 or mt19-20-21-38) 70-Yb-169
 Cross Section -100.0 To 911.1 %



MAT 7028

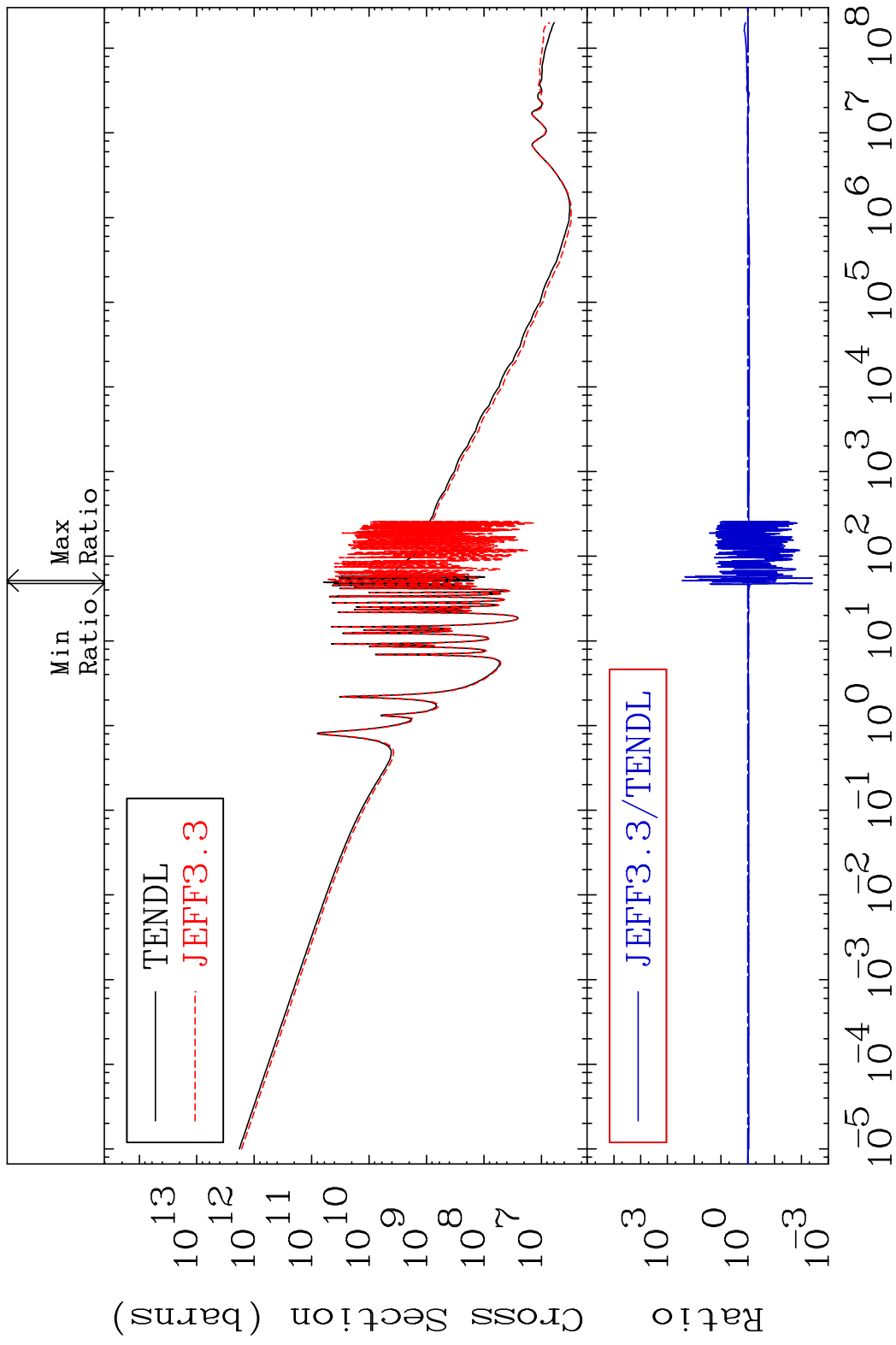
Kerma capture (mt102) 70-Yb-169
Cross Section -99.65 To 9999. %



73

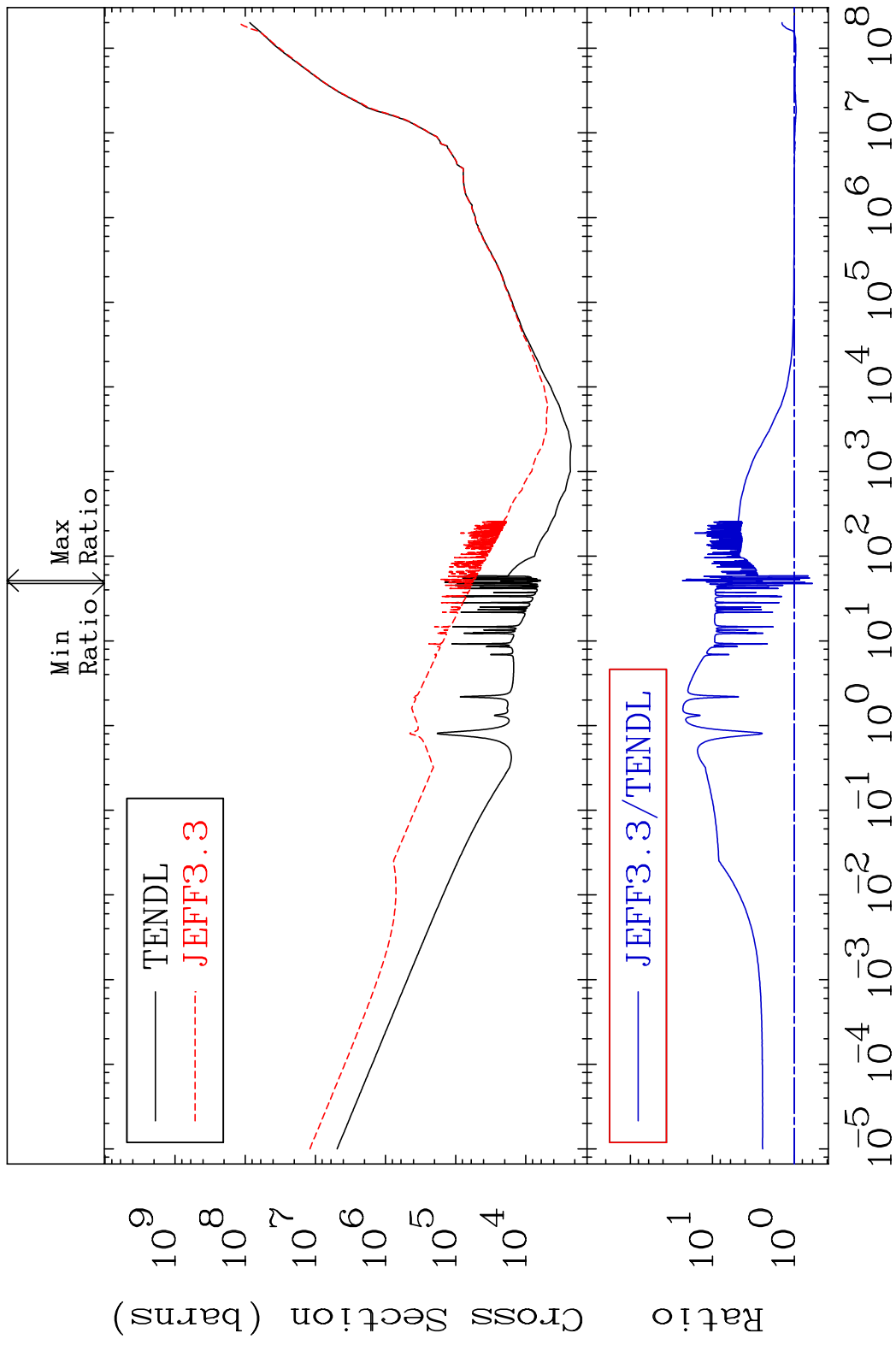
Incident Energy (eV) 70-Yb-169

MAT 7028 Total photon (eV-barns) 70-Yb-169
 Cross Section -99.62 To 9999. %



74 Incident Energy (eV) 70-Yb-169

MAT 7028 Total kinematic kerma (high limit) 70-Yb-169
 Cross Section -39.83 To 2224. %



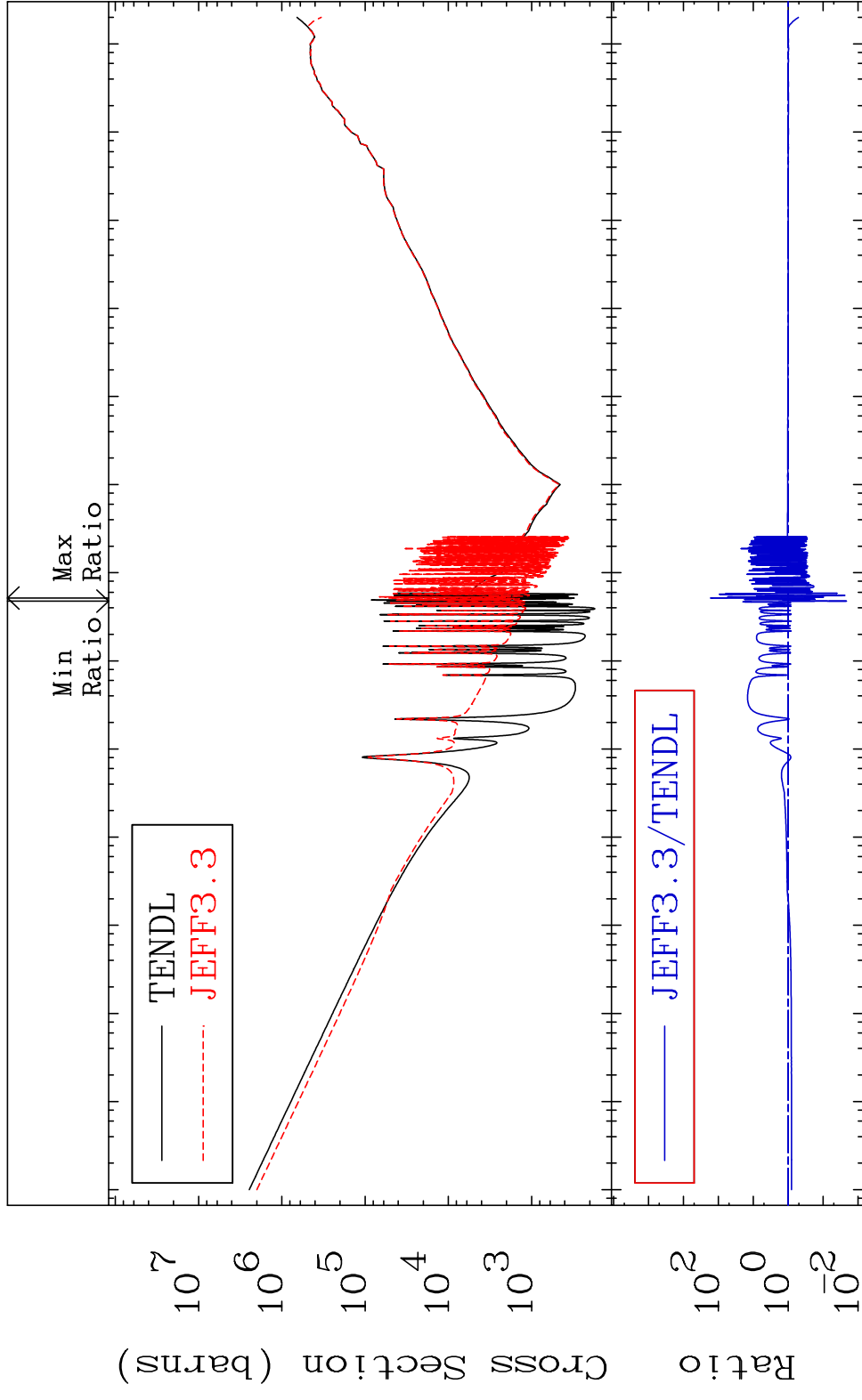
75 Incident Energy (eV) 70-Yb-169

MAT 7028

Dpa total (eV-barns)

70-Yb-169

Cross Section -97.83 To 9999. %



76

Incident Energy (eV)

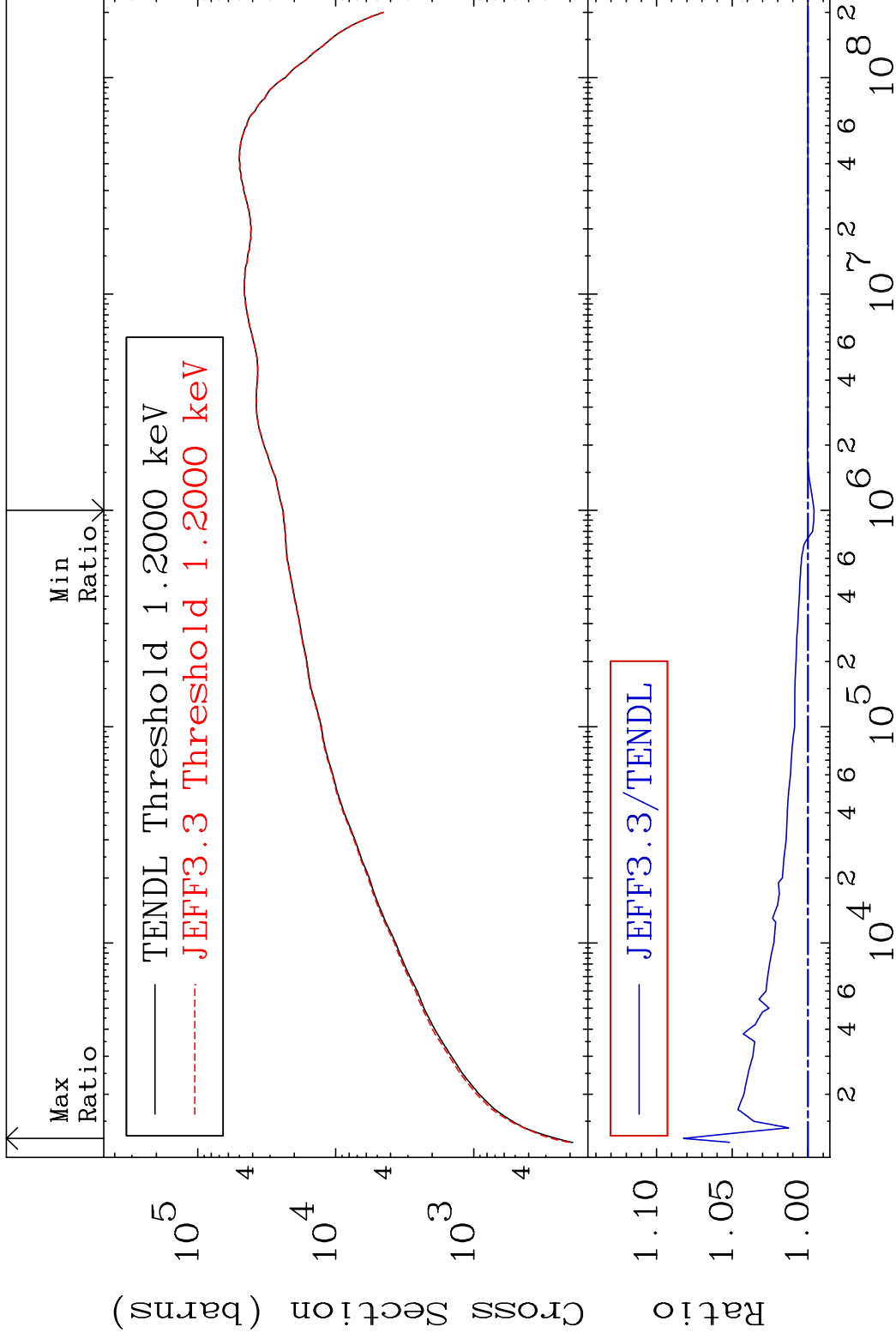
70-Yb-169

MAT 7028

Dpa elastic (mt2)

70-Yb-169

Cross Section -0.398 To 8.221 %

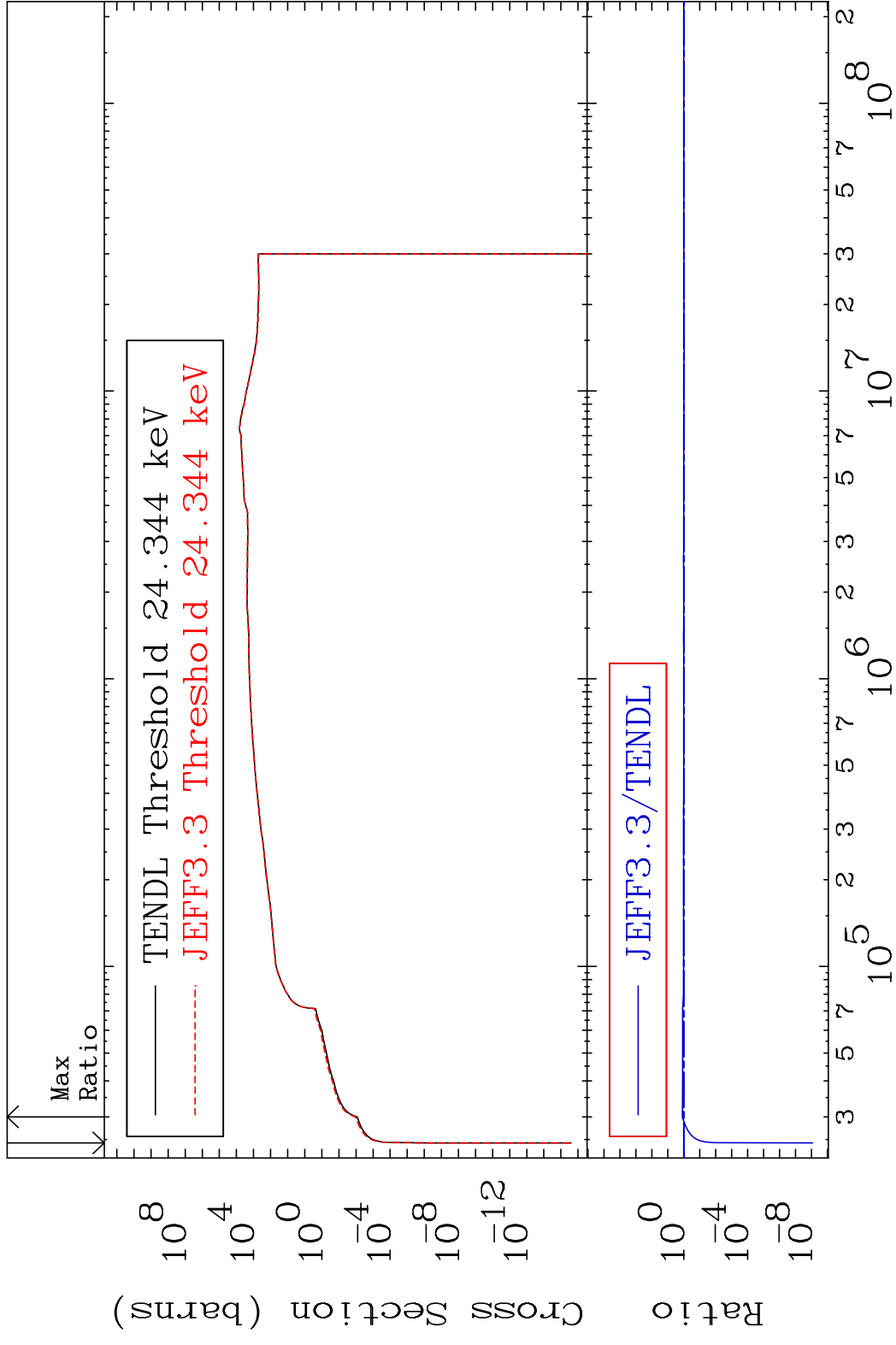


77

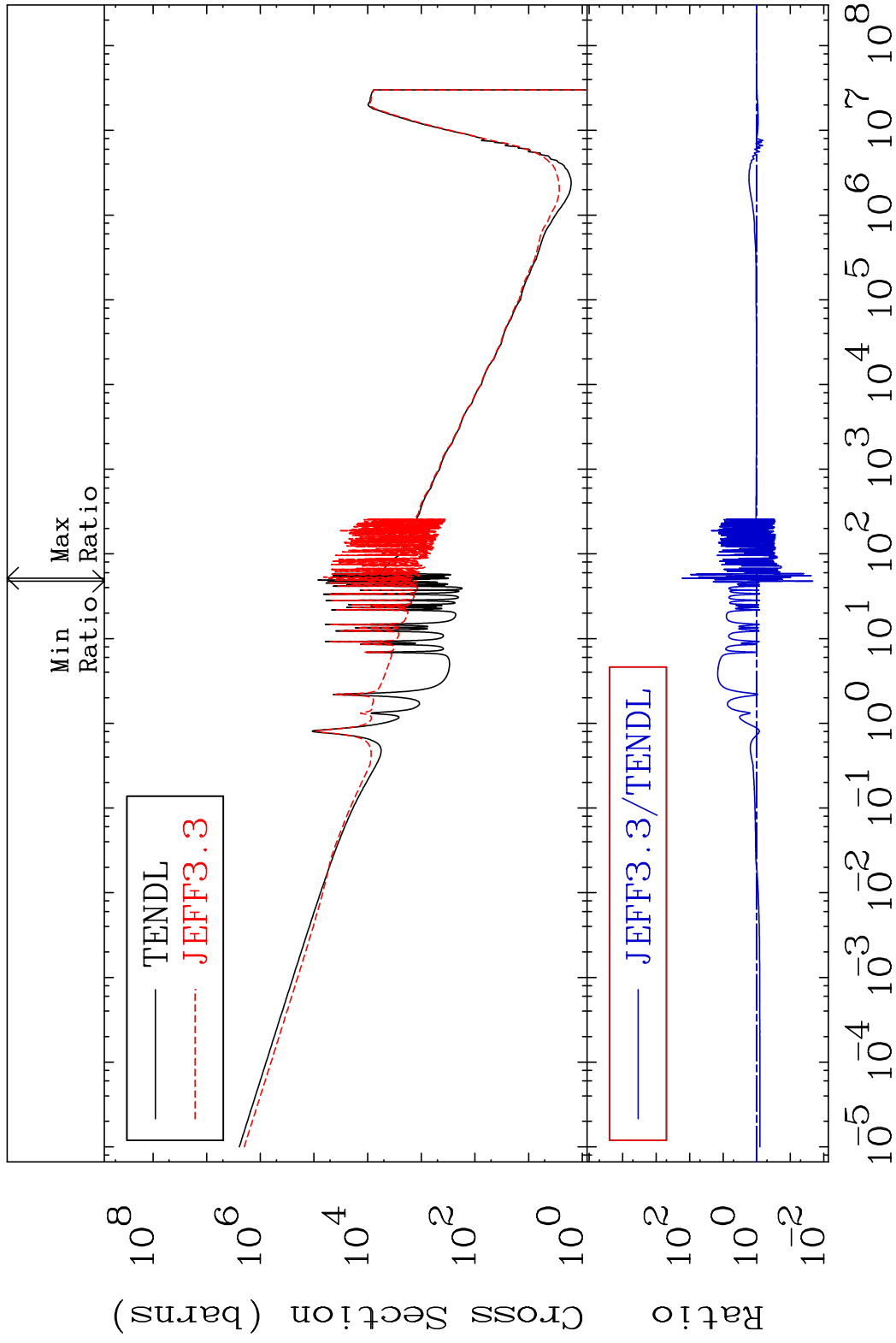
Incident Energy (eV)

70-Yb-169

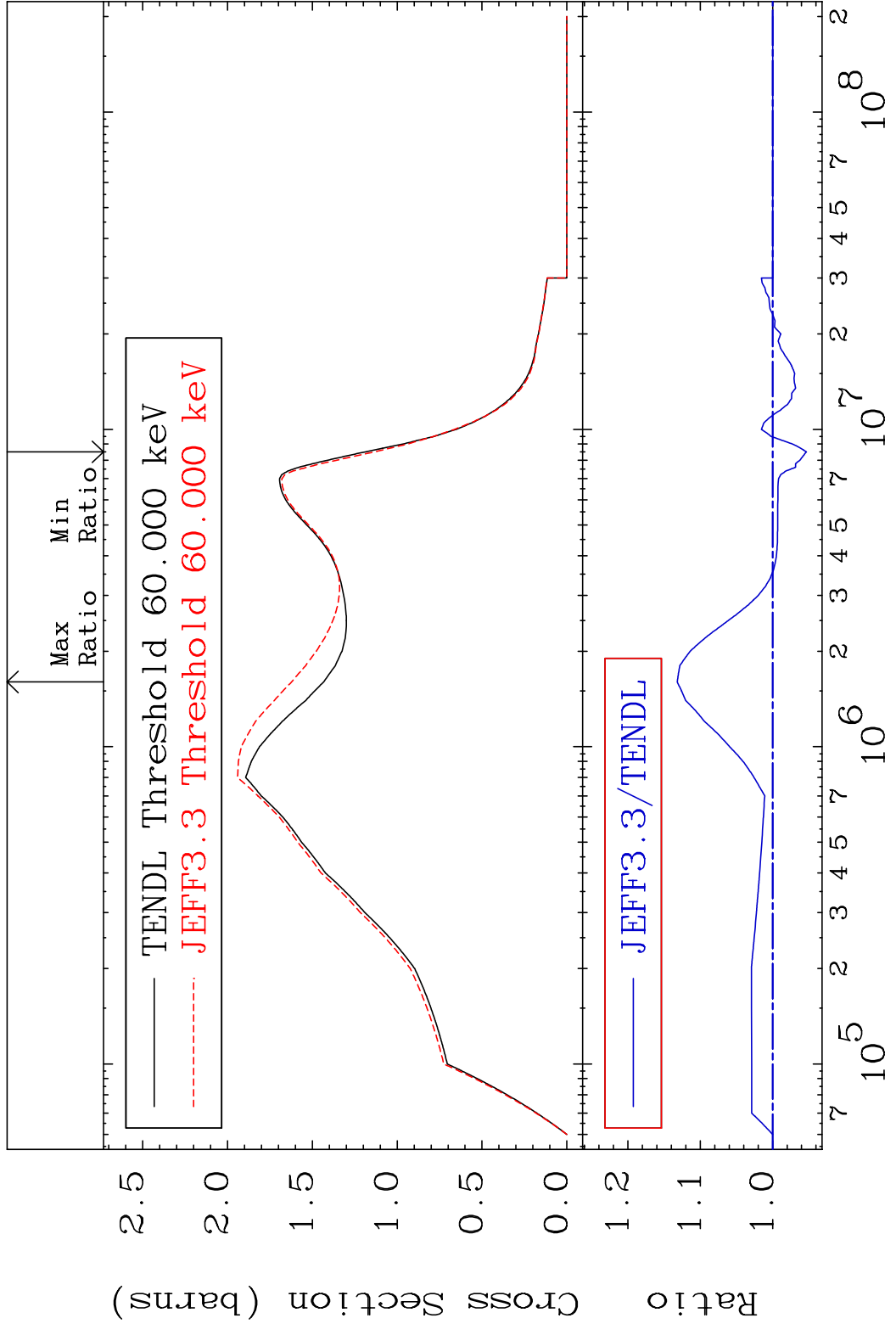
MAT 7028 Dpa inelastic (mt51-91) 70-Yb-169
 Cross Section -100.0 To 22.72 %

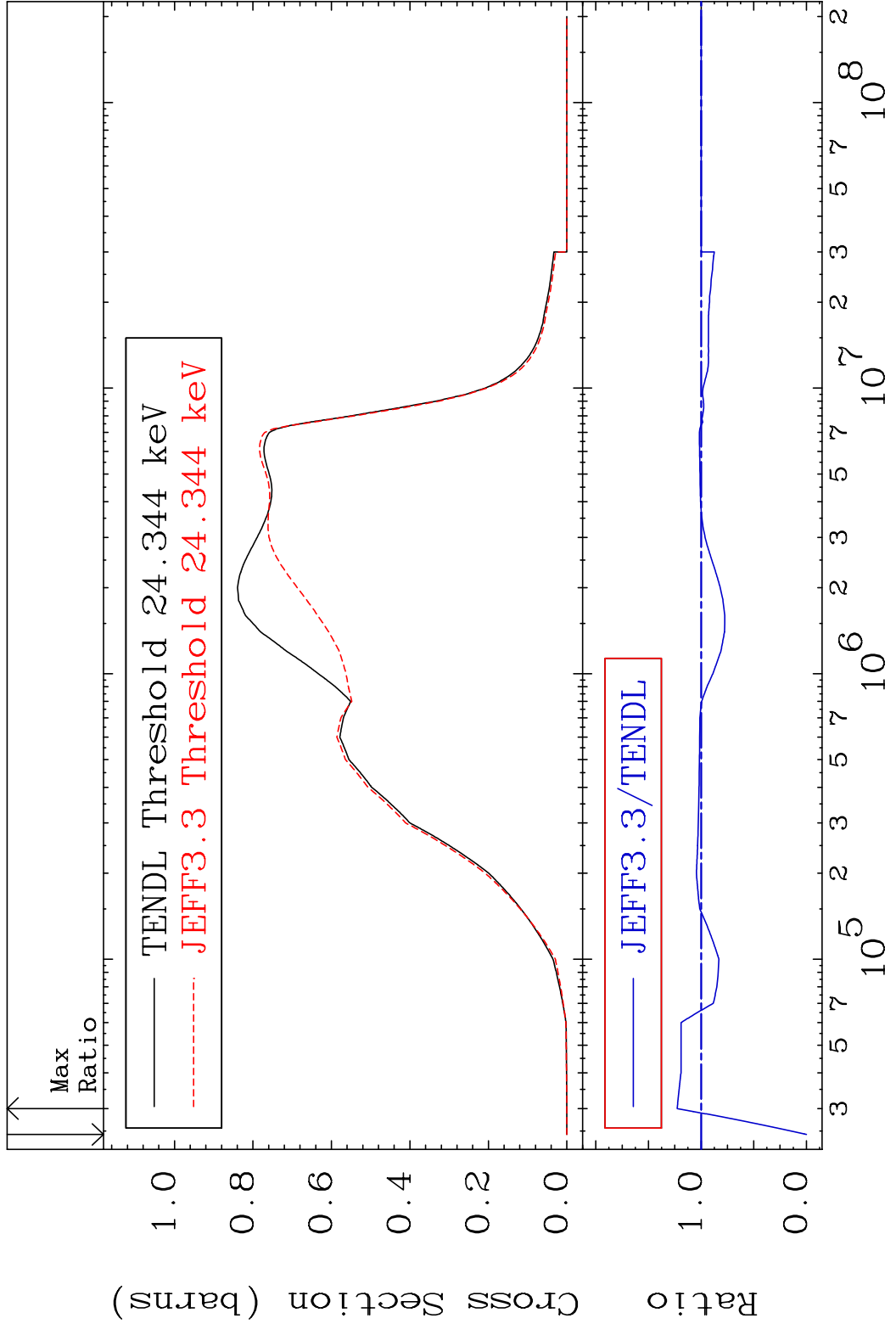


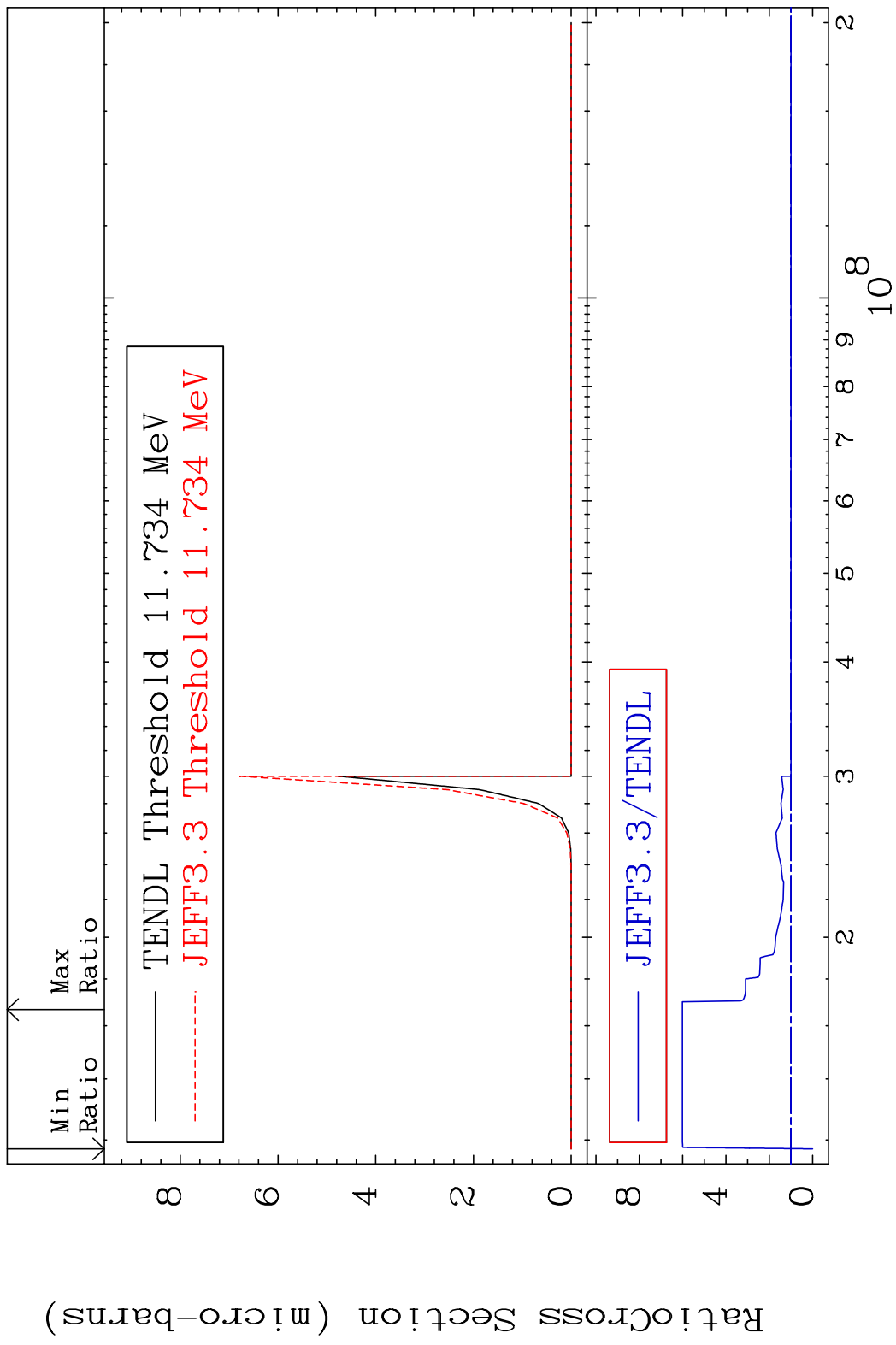
MAT 7028 Dpa disappearance (mt102 -120) 70-Yb-169
 Cross Section -97.83 To 9999. %

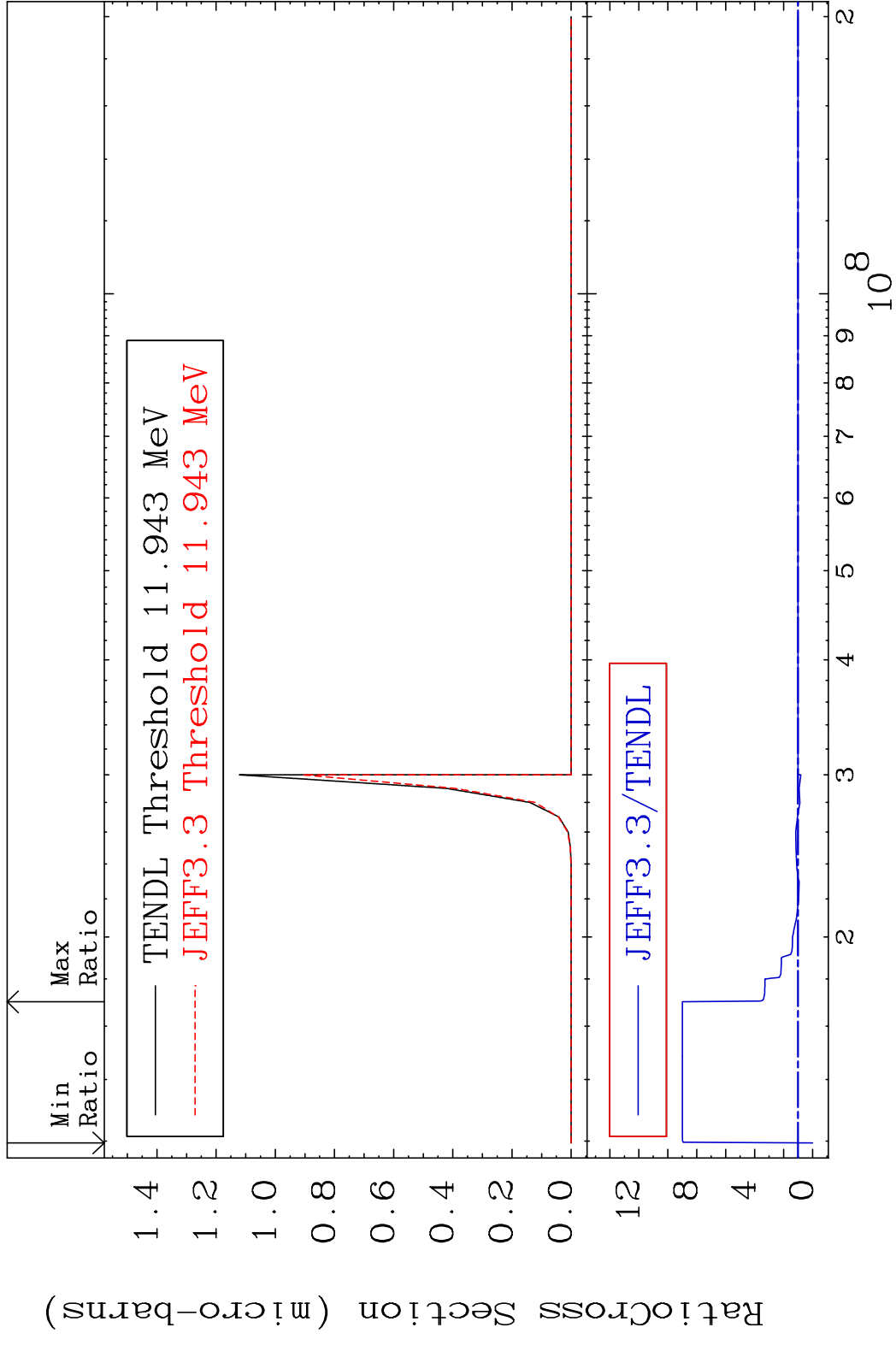


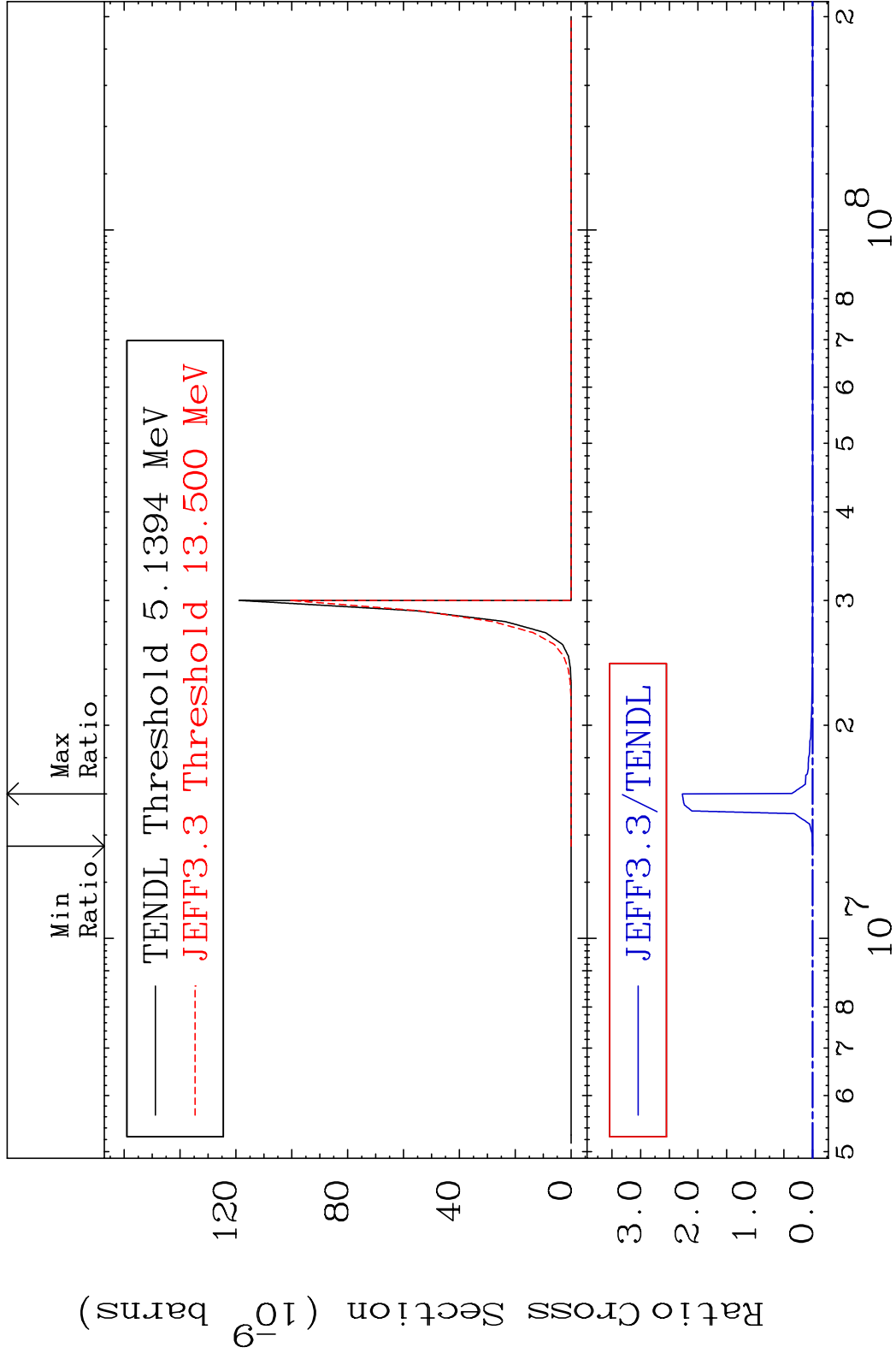
79 Incident Energy (eV) 70-Yb-169

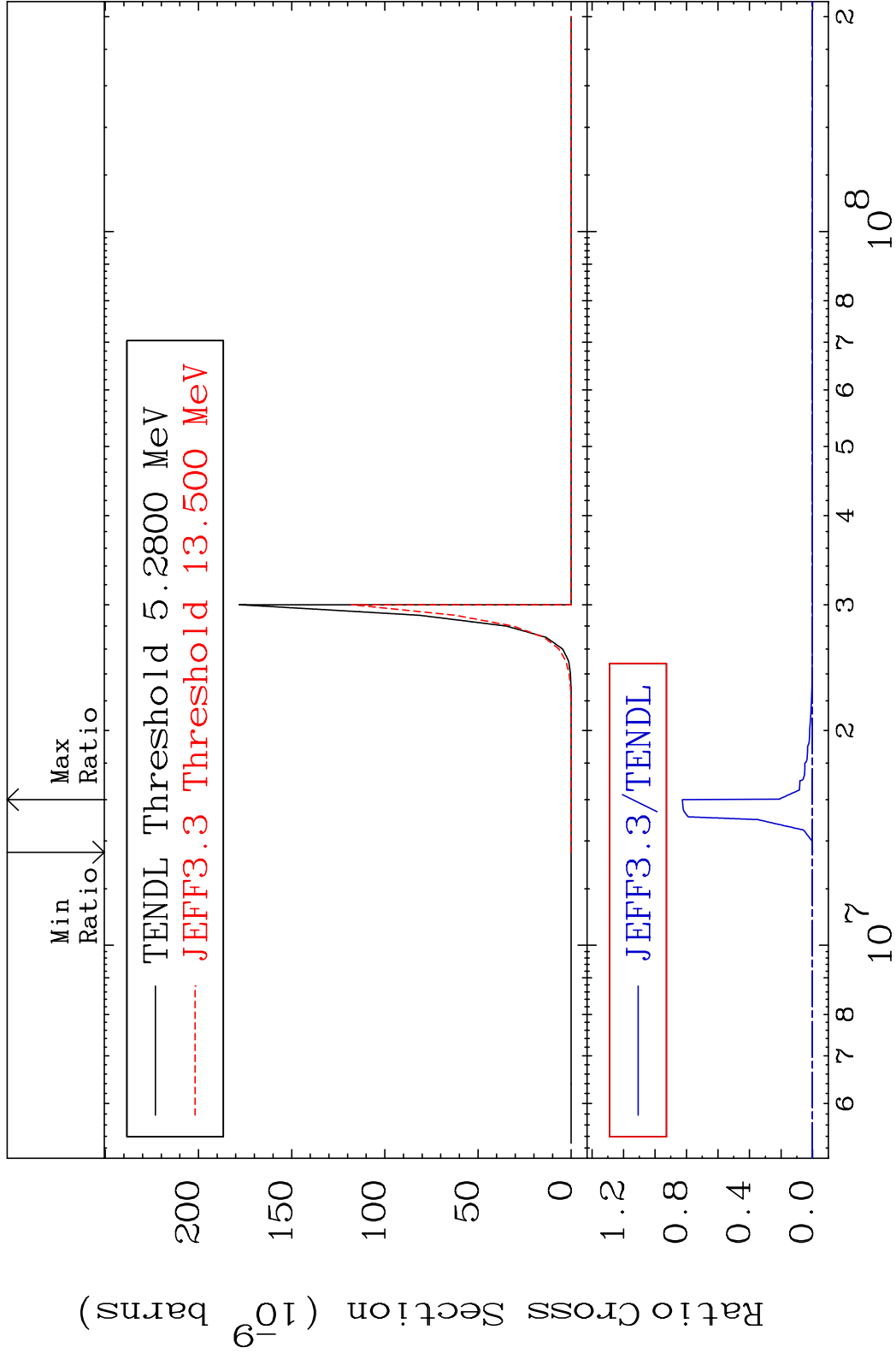


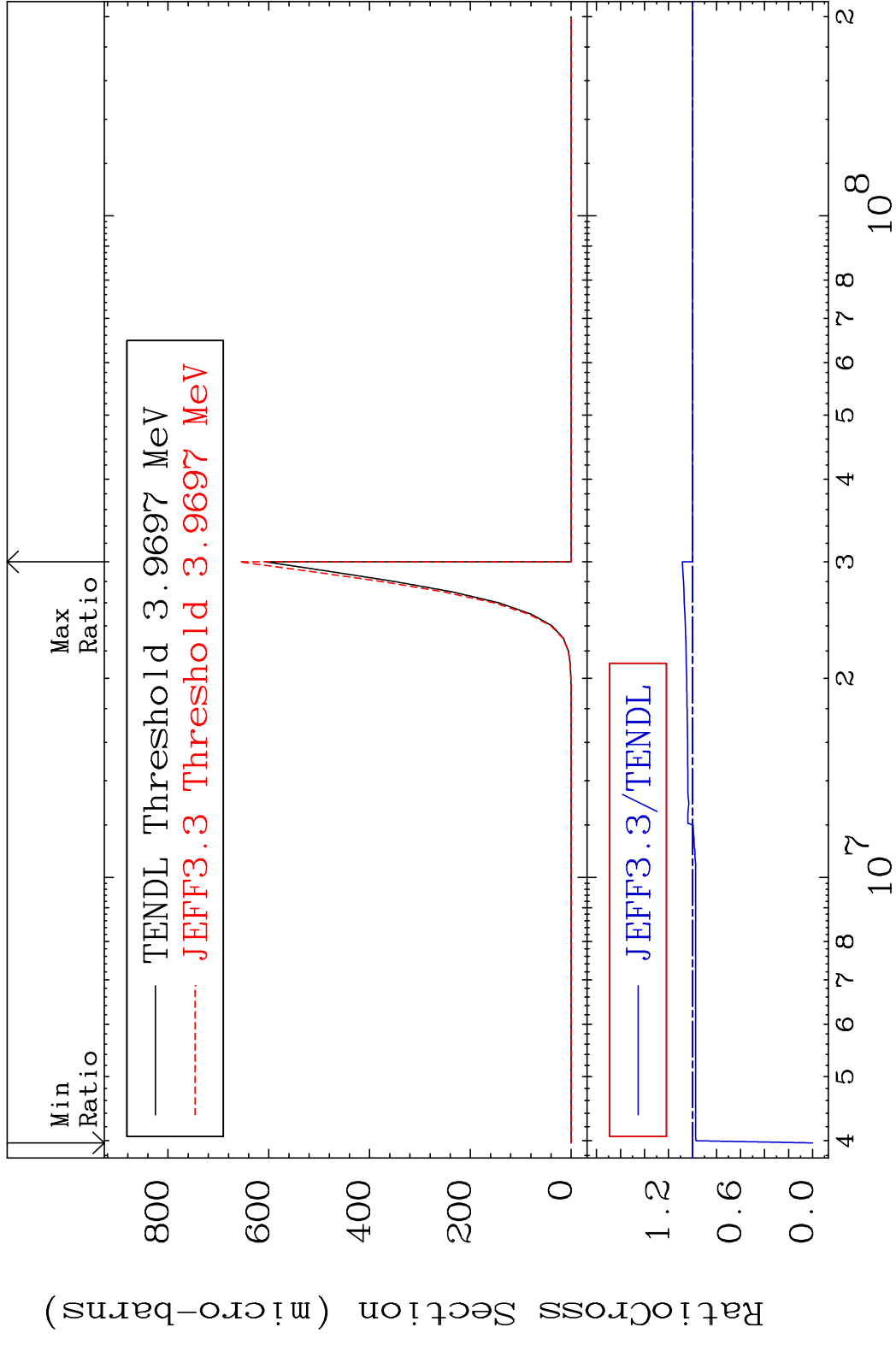


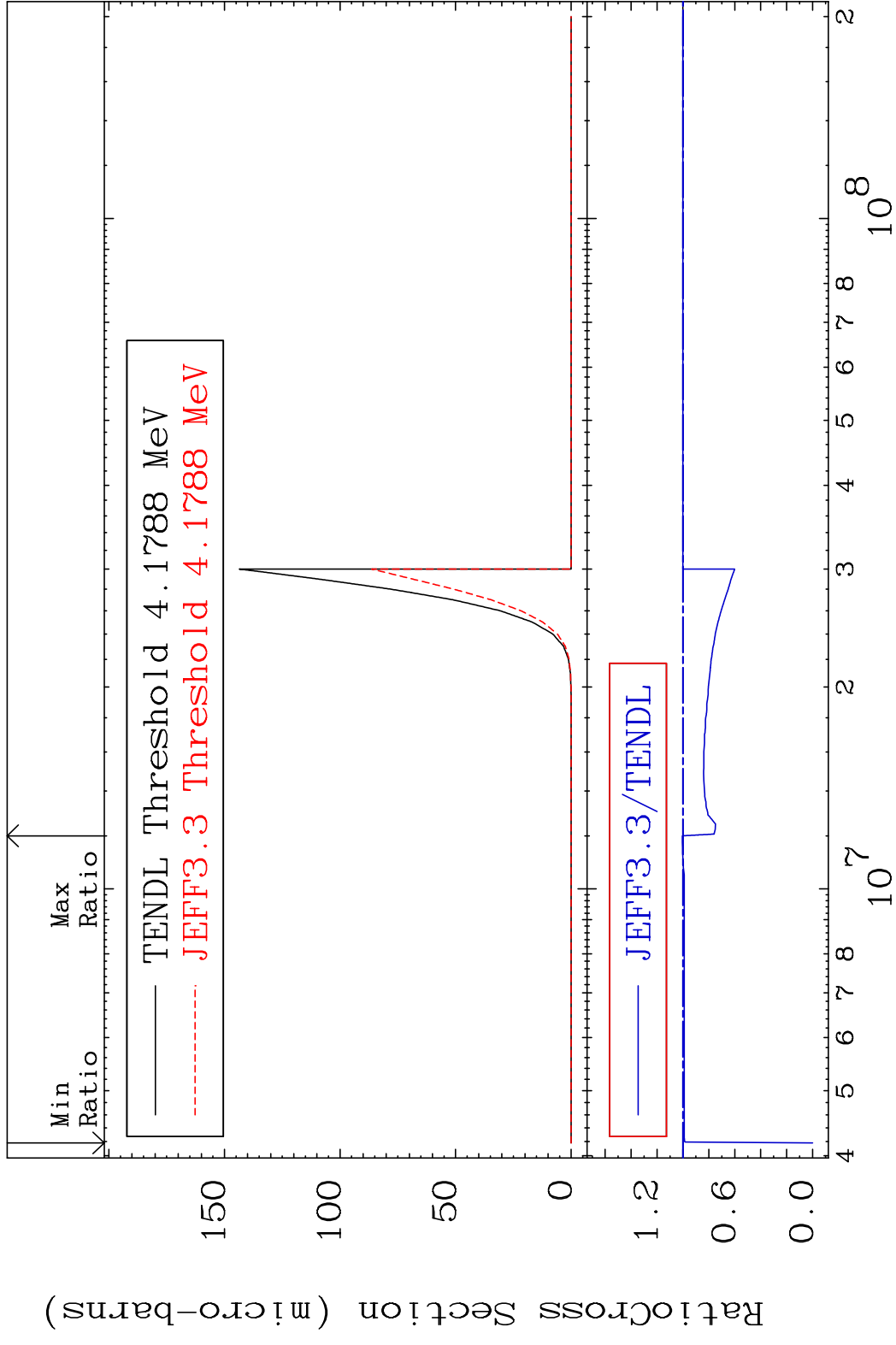


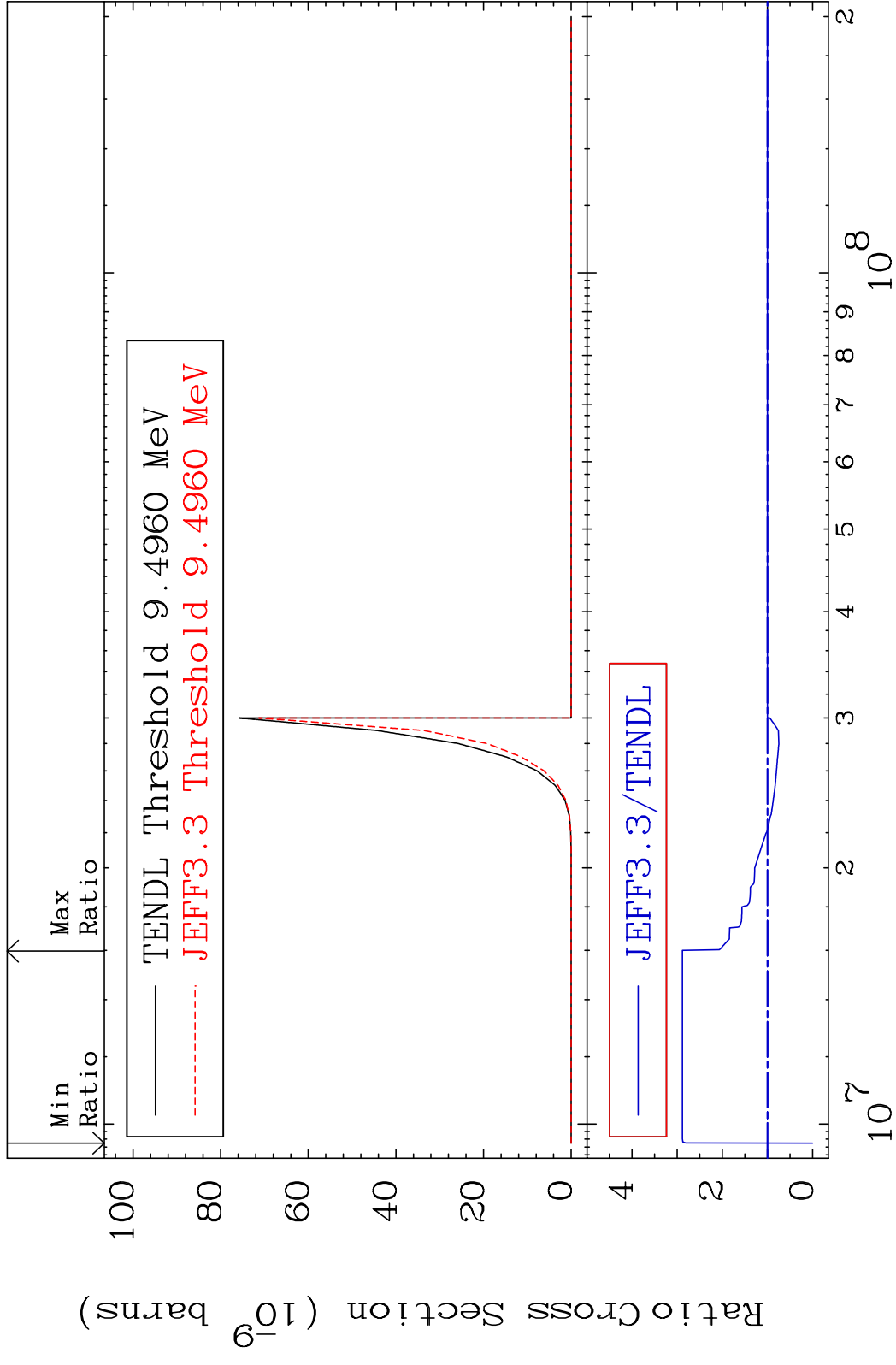




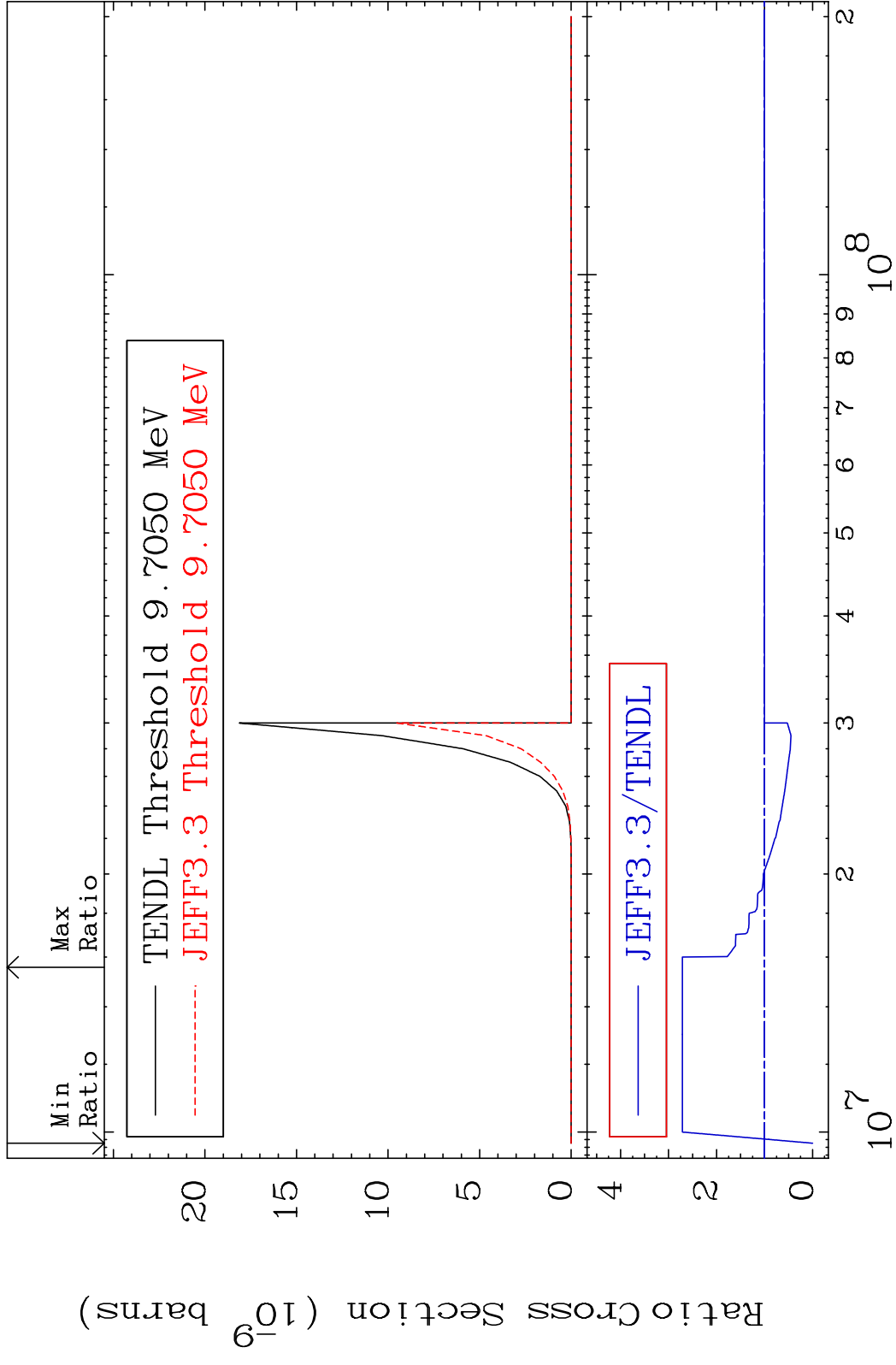








MAT 7028 (n, p) d:68-Er-167m3 70-Yb-169
 Radionuclide Production Cross Section 180.01 dth 171.3 %



89 Incident Energy (eV) 70-Yb-169

MAT 7028 (n, d) α :67-Ho-164g 70-Yb-169
 Radionuclide Production Cross Section 9999. %

