

Program Complot
(Version 2021-1)

by

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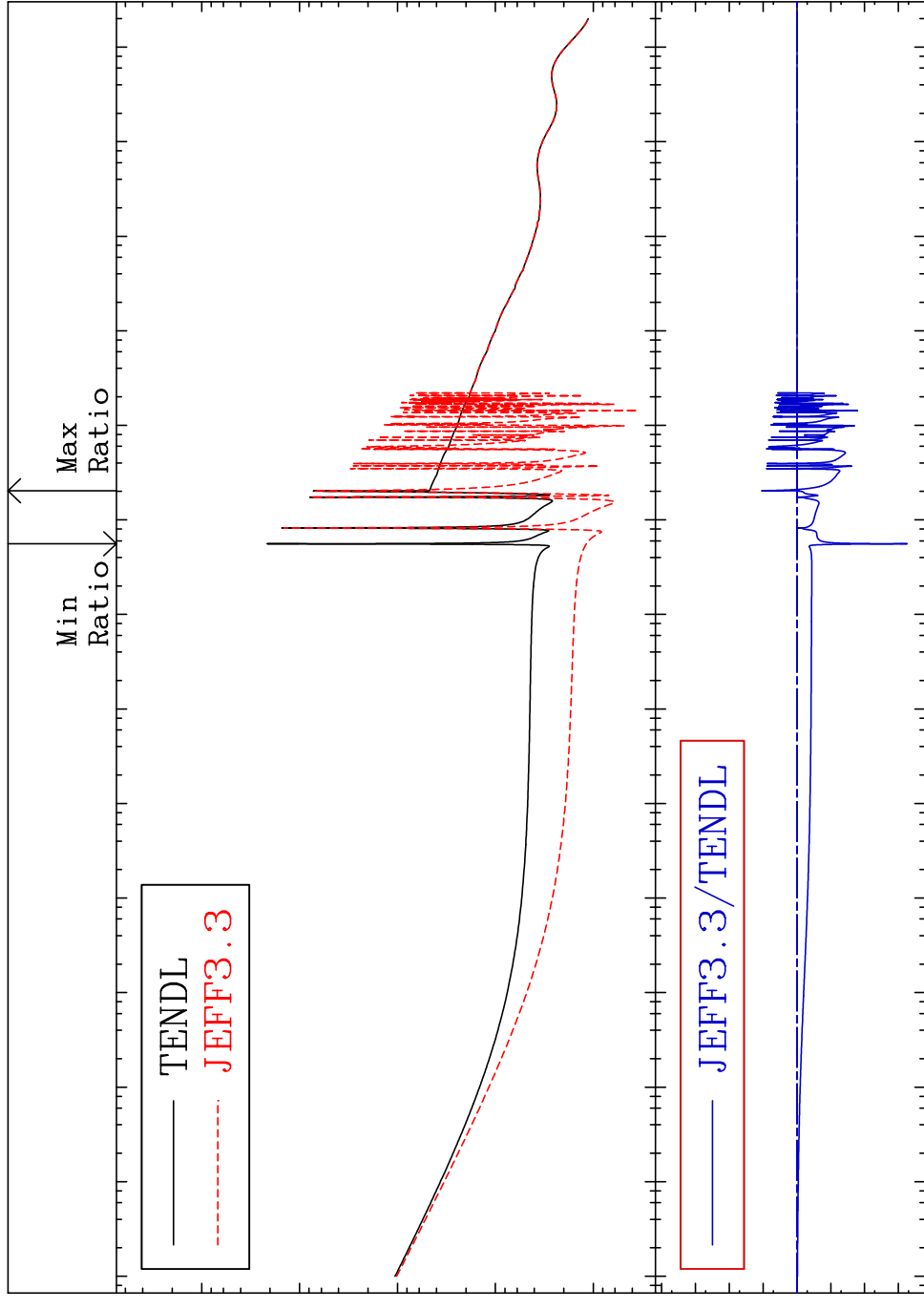
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 2728

Total
Cross Section -99.95 To 991.1 %

27-Co-60



Cross Section (barns)
Ratio

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

1 Incident Energy (eV) 27-Co-60

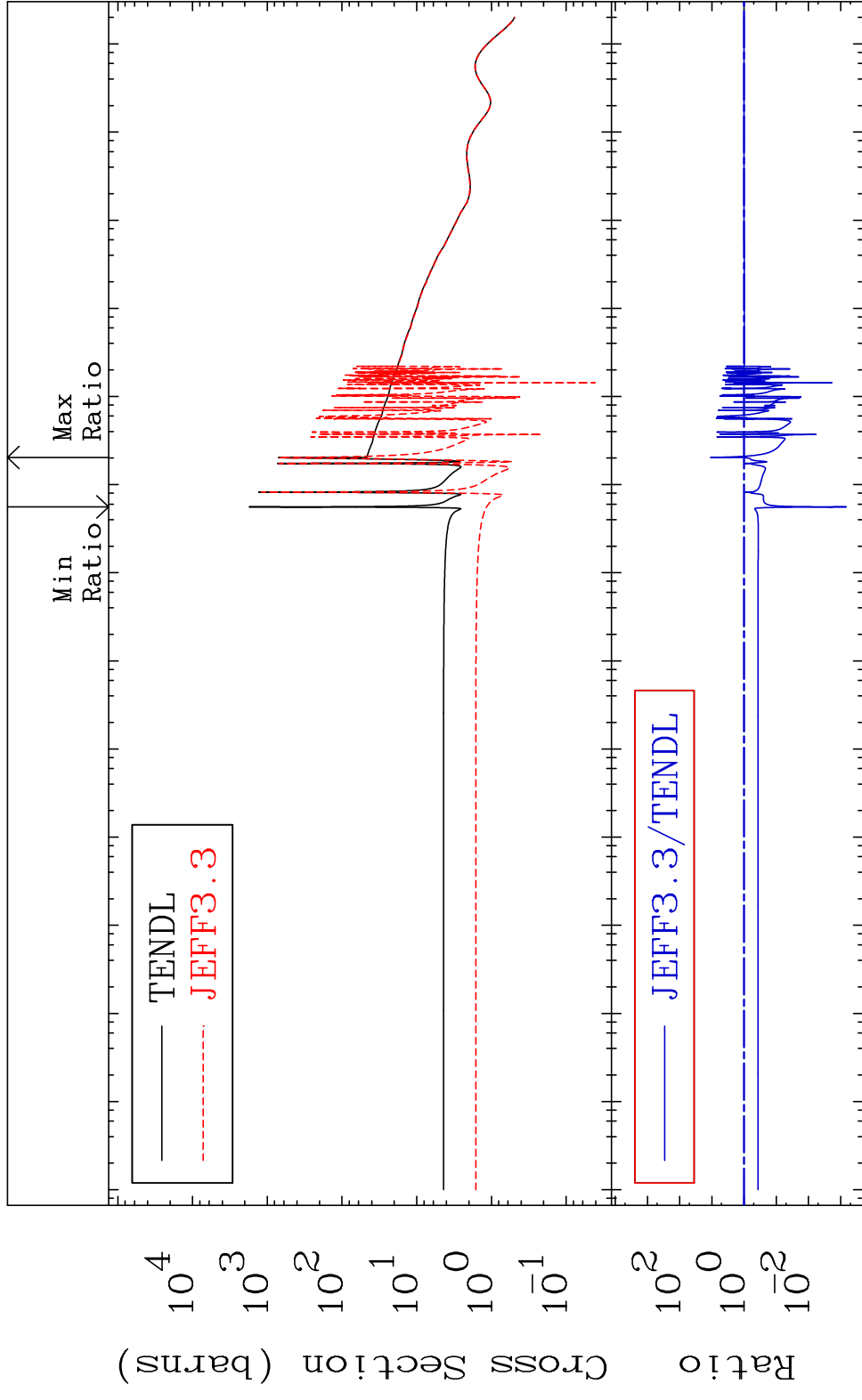
MAT 2728

Elastic

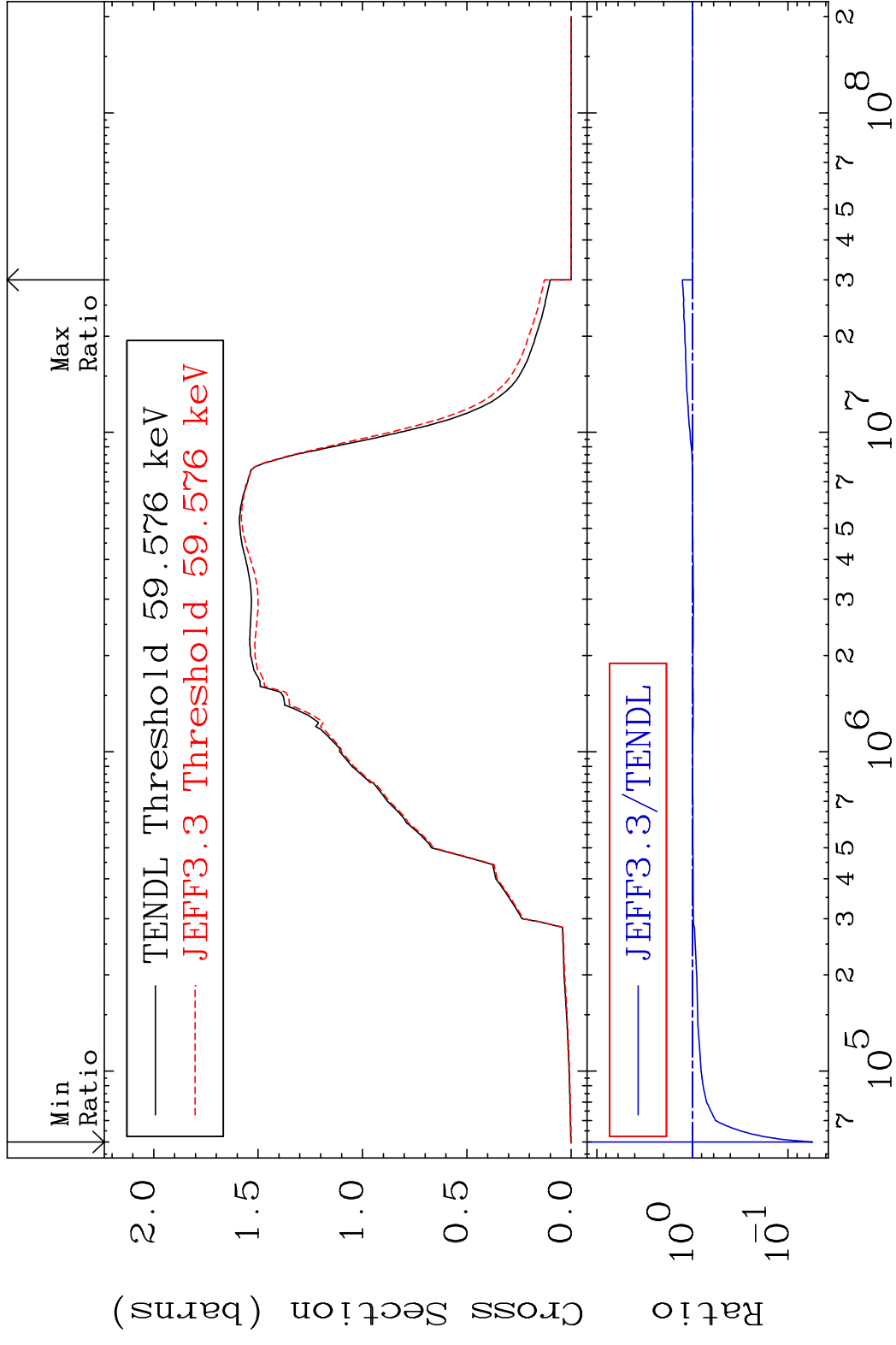
27-Co-60

Cross Section

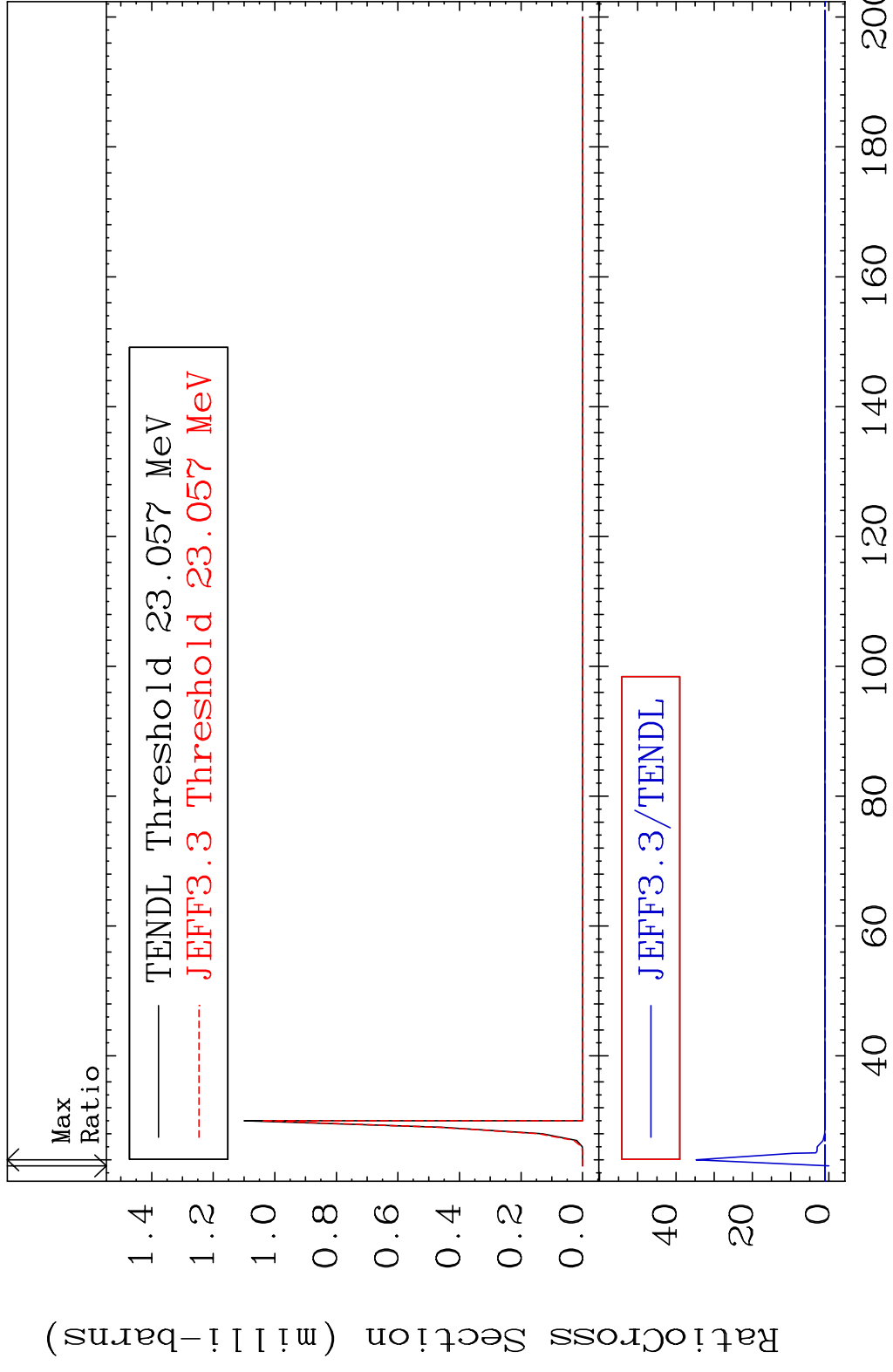
-99.93 To 985.1 %



MAT 2728 Inelastic 27-Co-60
 Cross Section -94.48 To 27.28 %



MAT 2728 (n,2n) d 27-Co-60
 Cross Section -100.0 To 3376. %

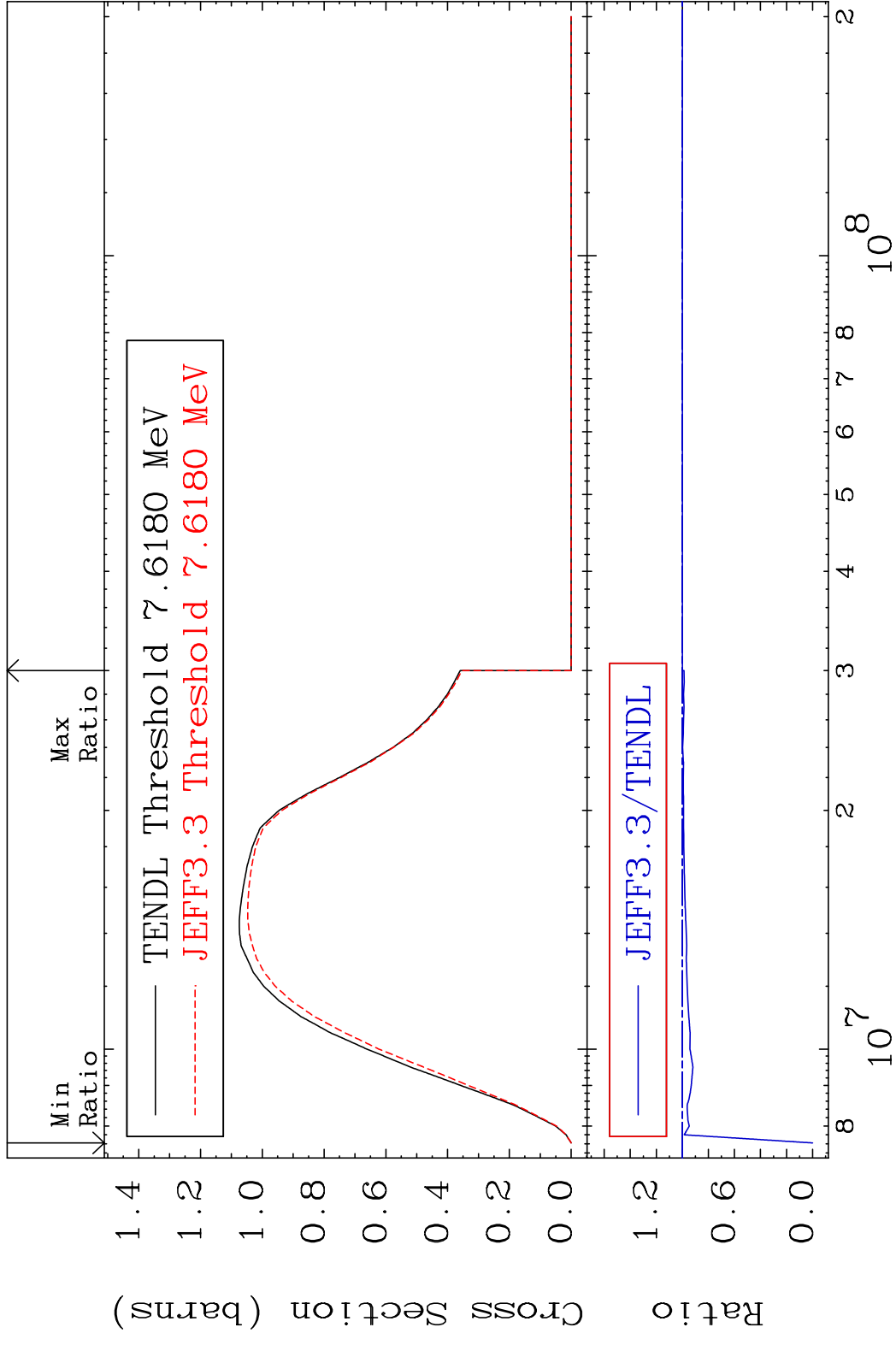


MAT 2728

(n,2n)

²⁷Co-60

Cross Section -100.0 To 0.000 %

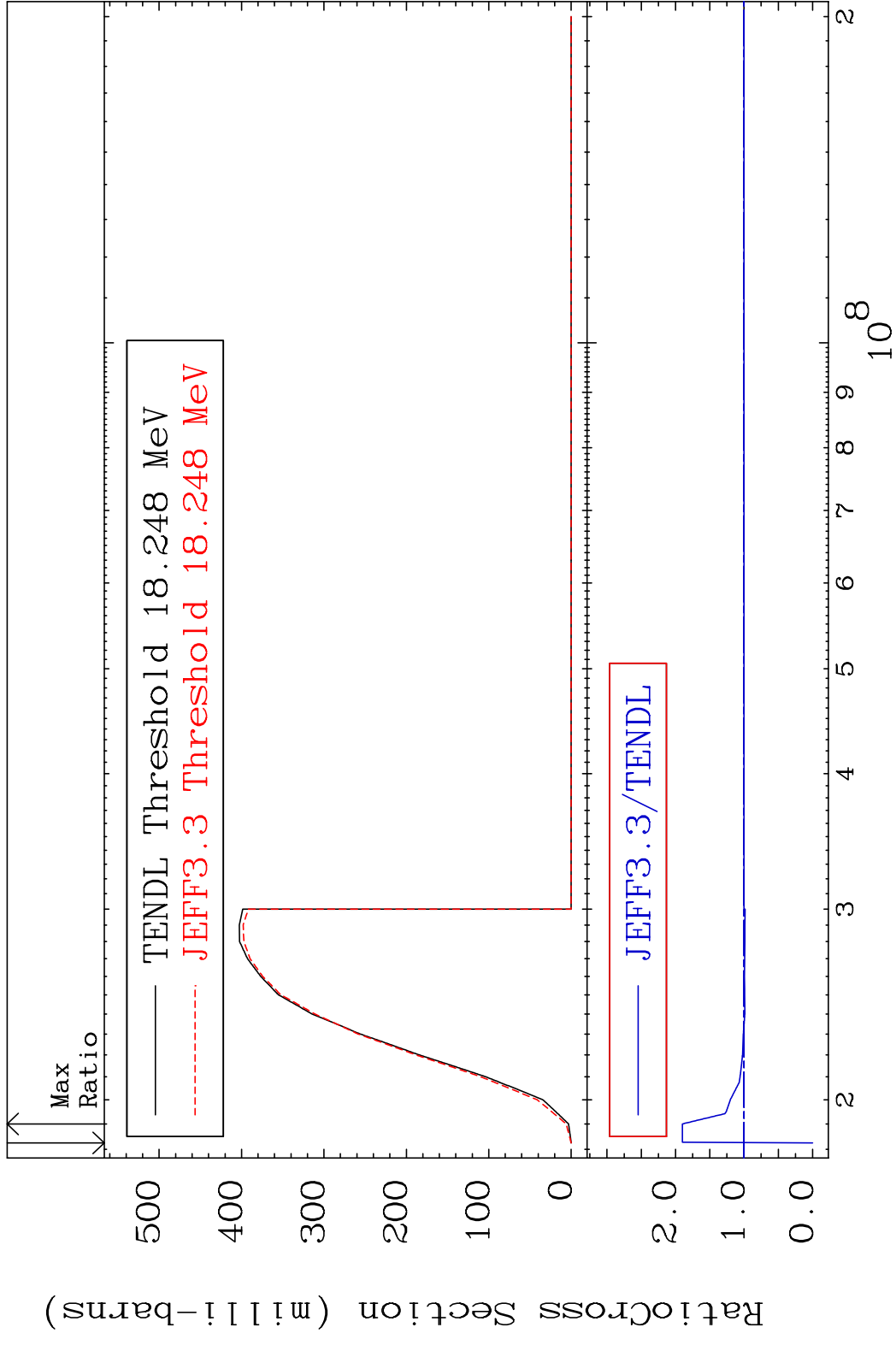


5

Incident Energy (eV)

²⁷Co-60

MAT 2728 (n,3n) 27-Co-60
 Cross Section -100.0 To 90.02 %

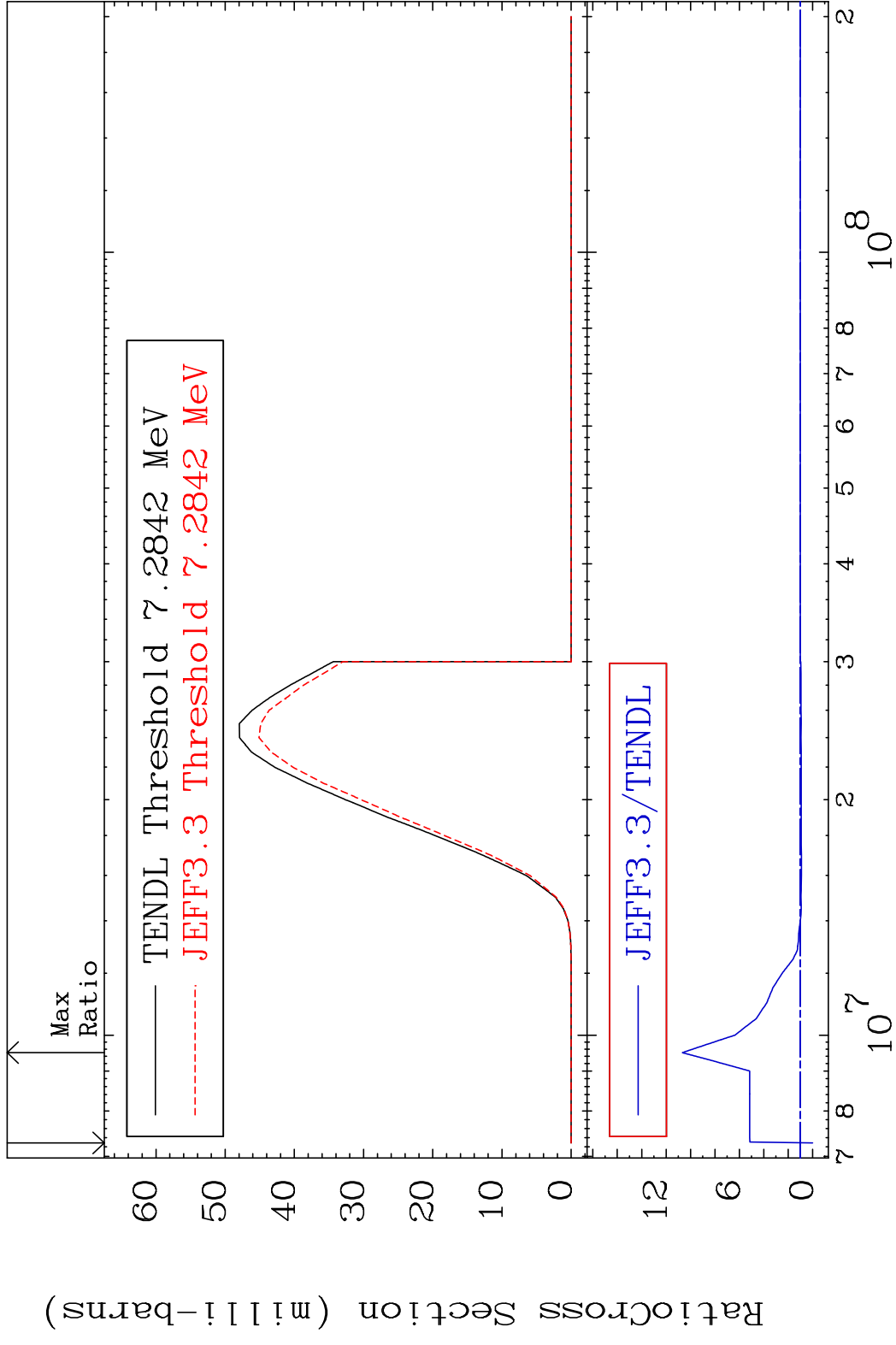


MAT 2728

(n, n') α

27-Co-60

Cross Section -100.0 To 966.8 %

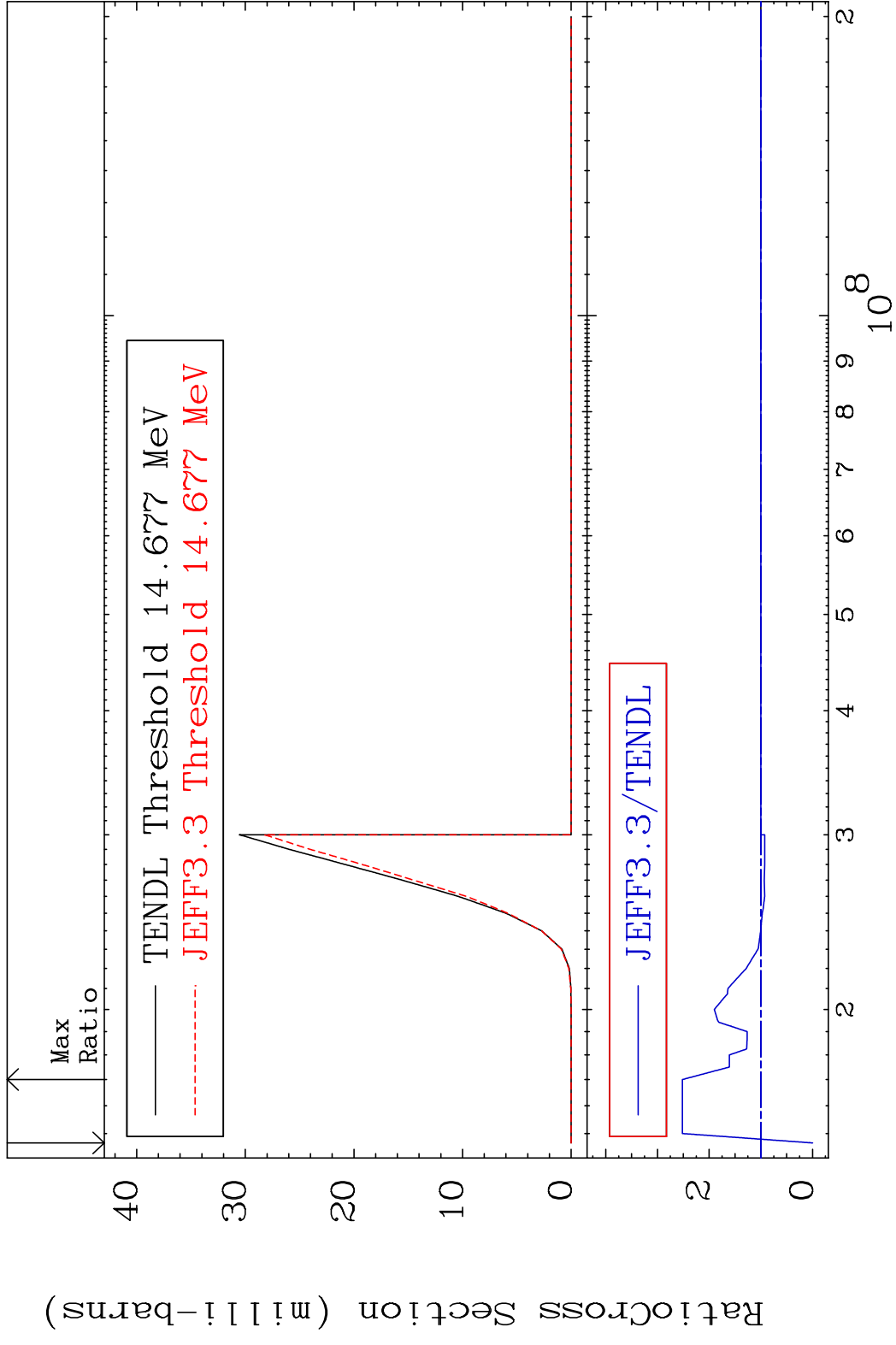


7

Incident Energy (eV)

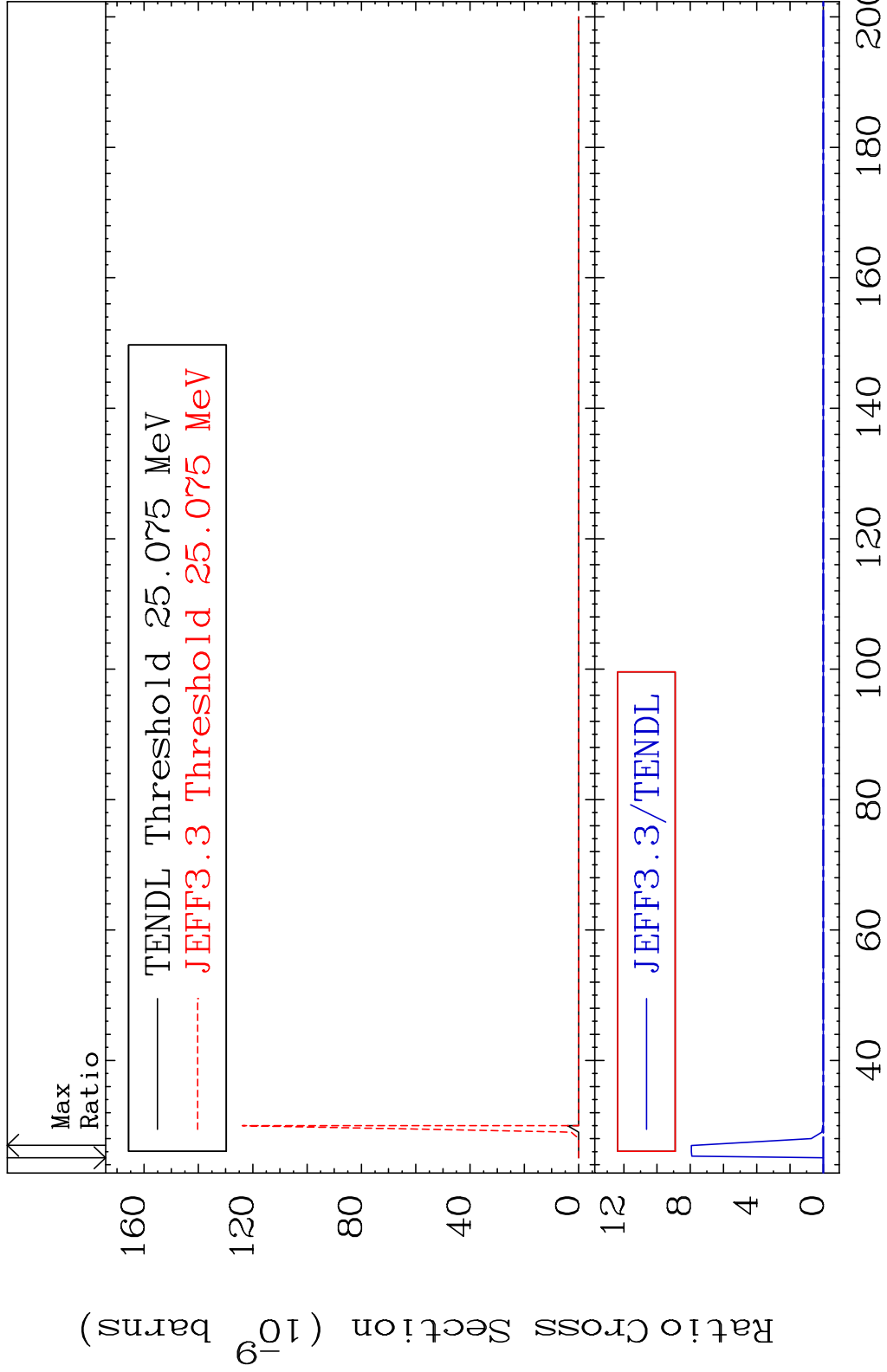
27-Co-60

MAT 2728 (n,2n) α 27-Co-60
 Cross Section -100.0 To 151.8 %

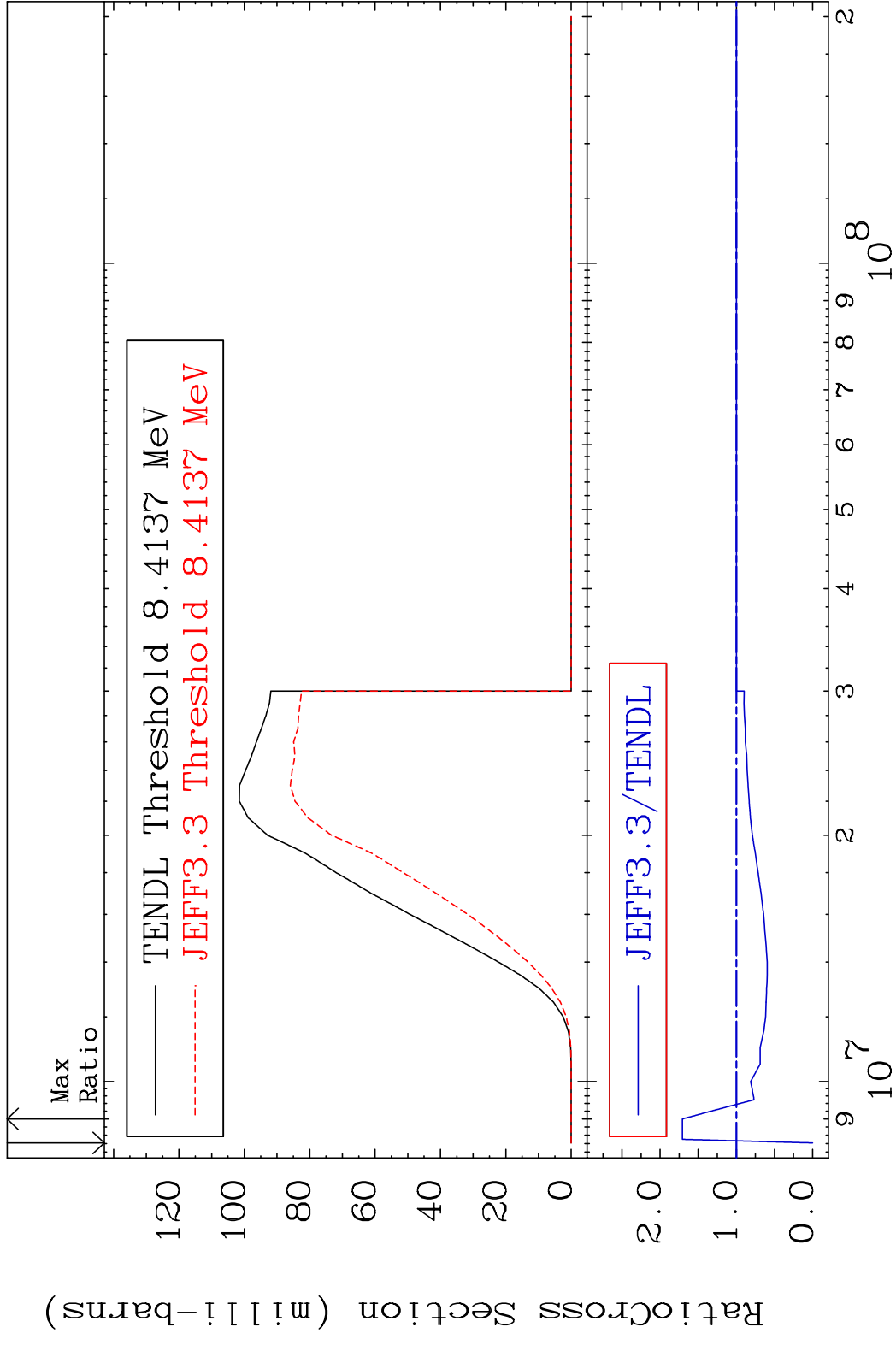


8 Incident Energy (eV) 27-Co-60

MAT 2728 (n,3n) α 27-Co-60
 Cross Section -100.0 To 9999. %



MAT 2728 (n, n') p 27-Co-60
 Cross Section -100.0 To 70.82 %



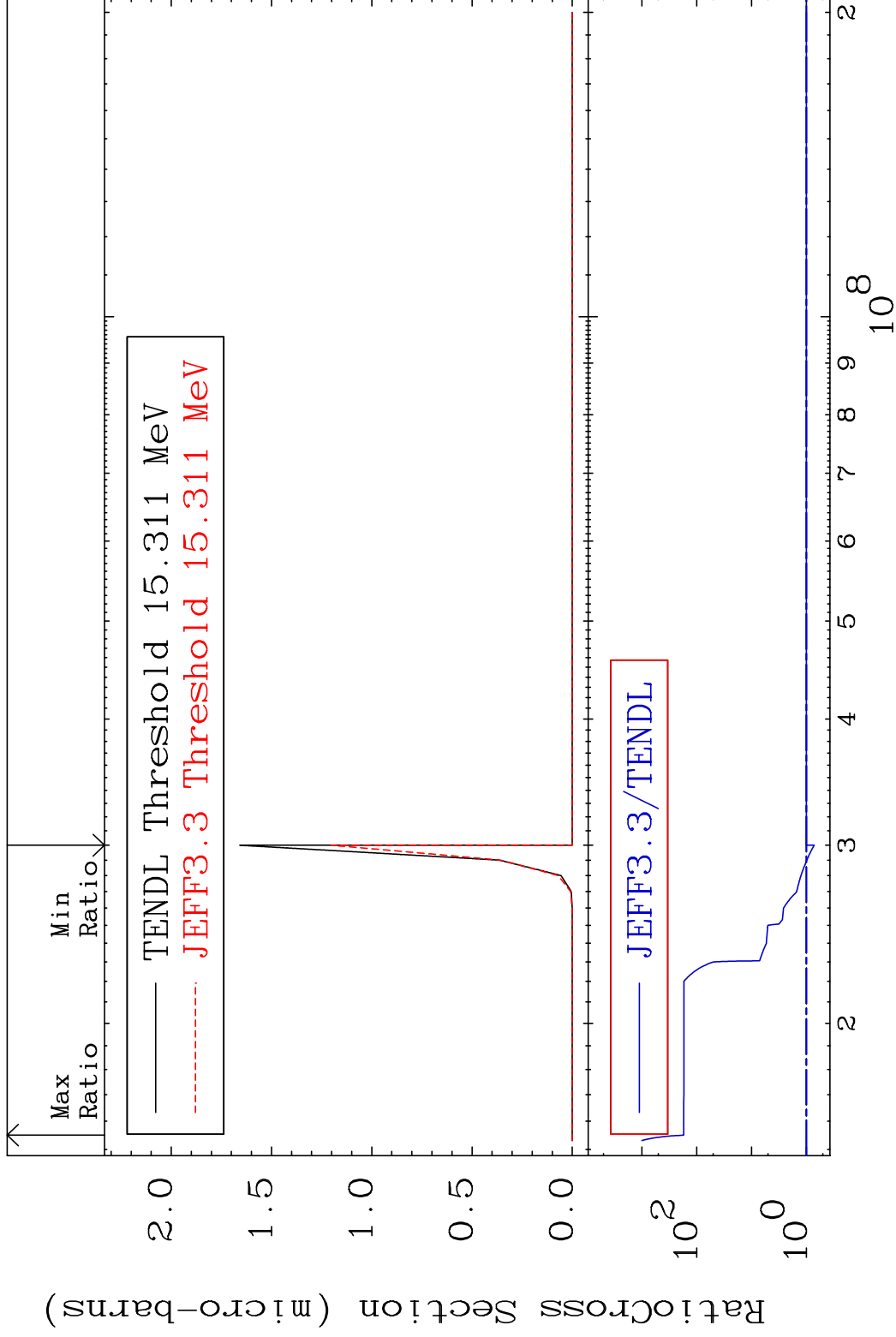
10 Incident Energy (eV) 27-Co-60

MAT 2728

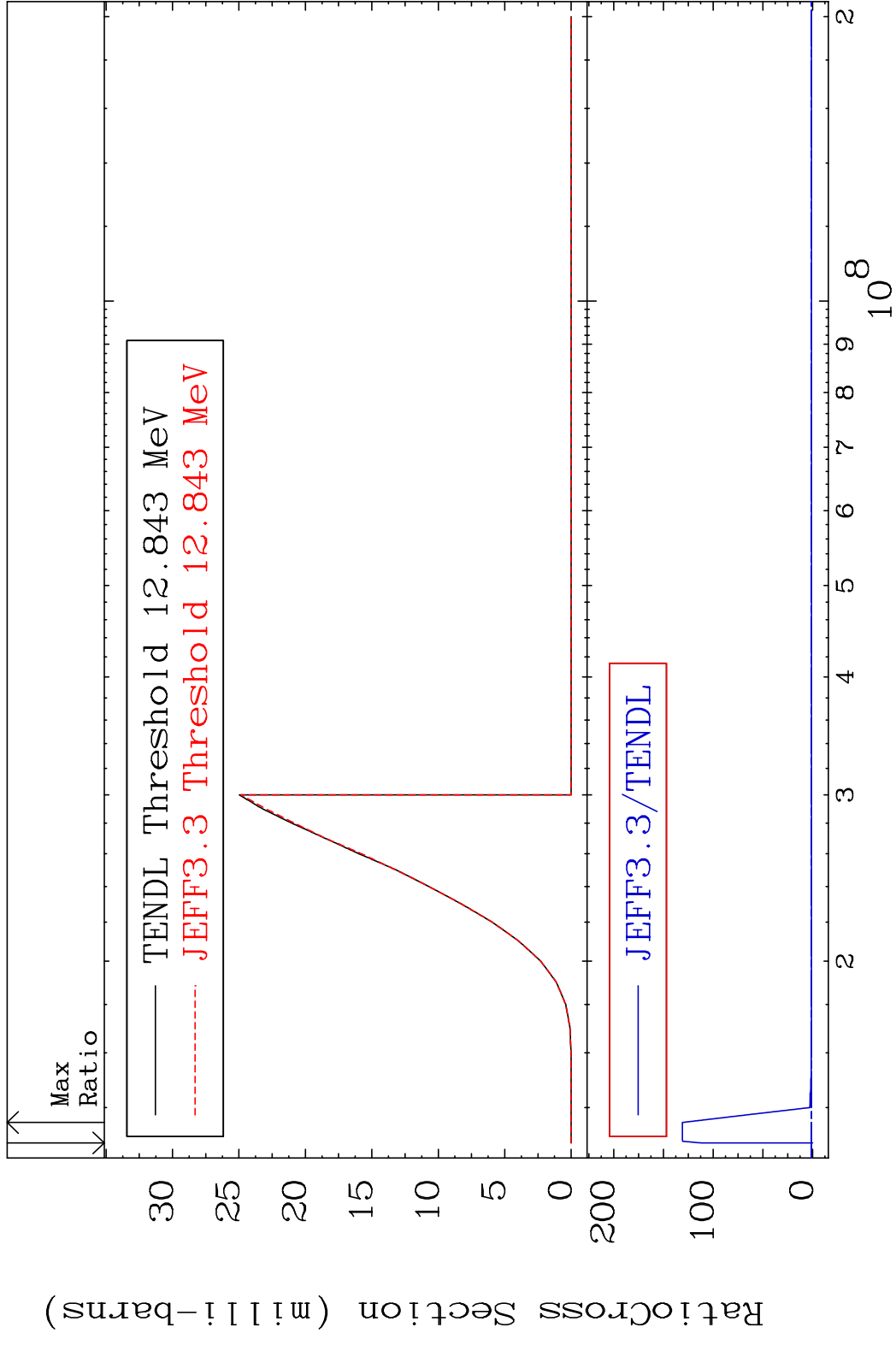
(n, n') 2 α

27-Co-60

Cross Section -27.57 To 9999. %



MAT 2728 (n, n') d 27-Co-60
 Cross Section -100.0 To 9999. %

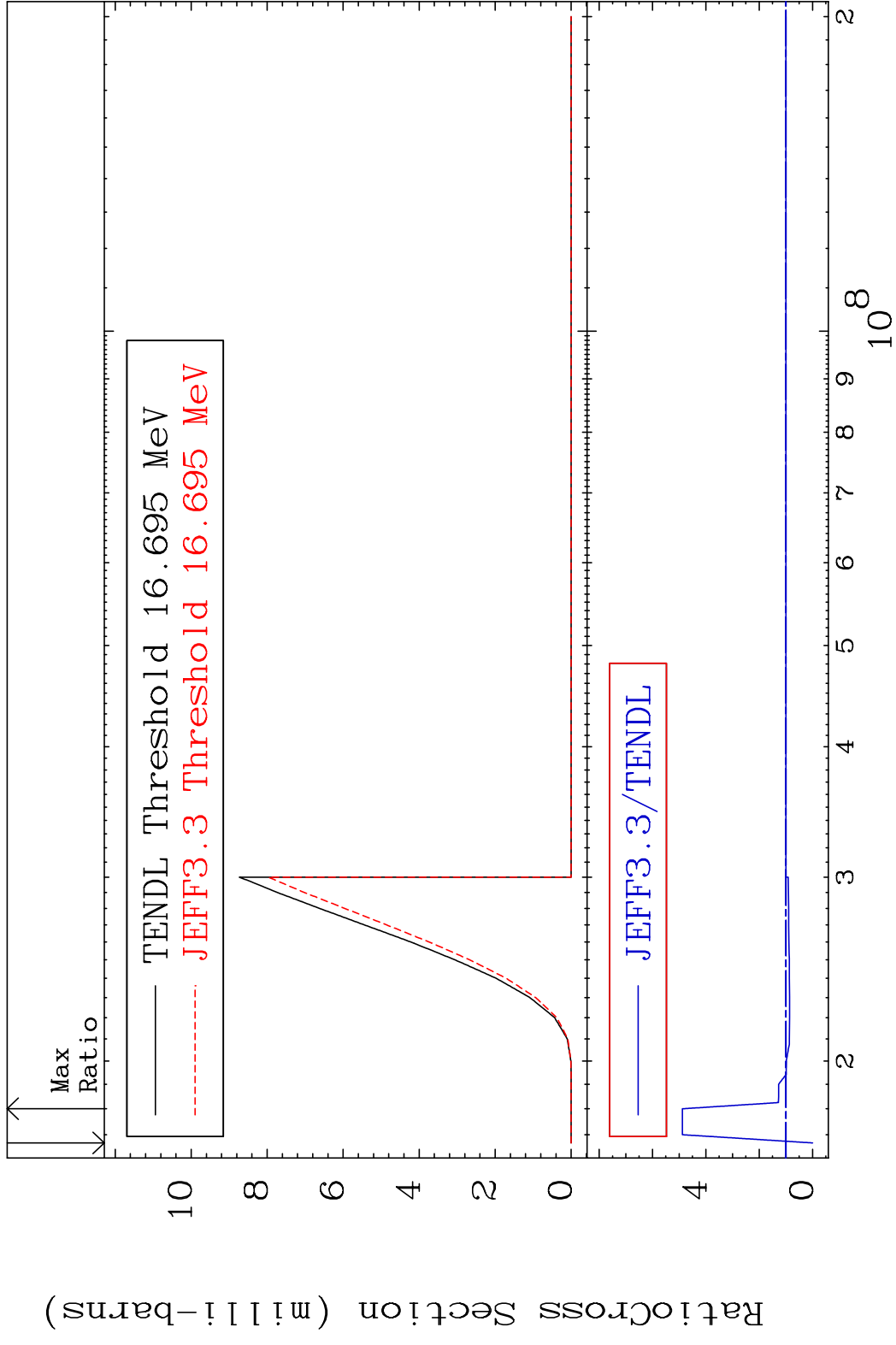


MAT 2728

(n, n') t

27-Co-60

Cross Section -100.0 To 388.1 %

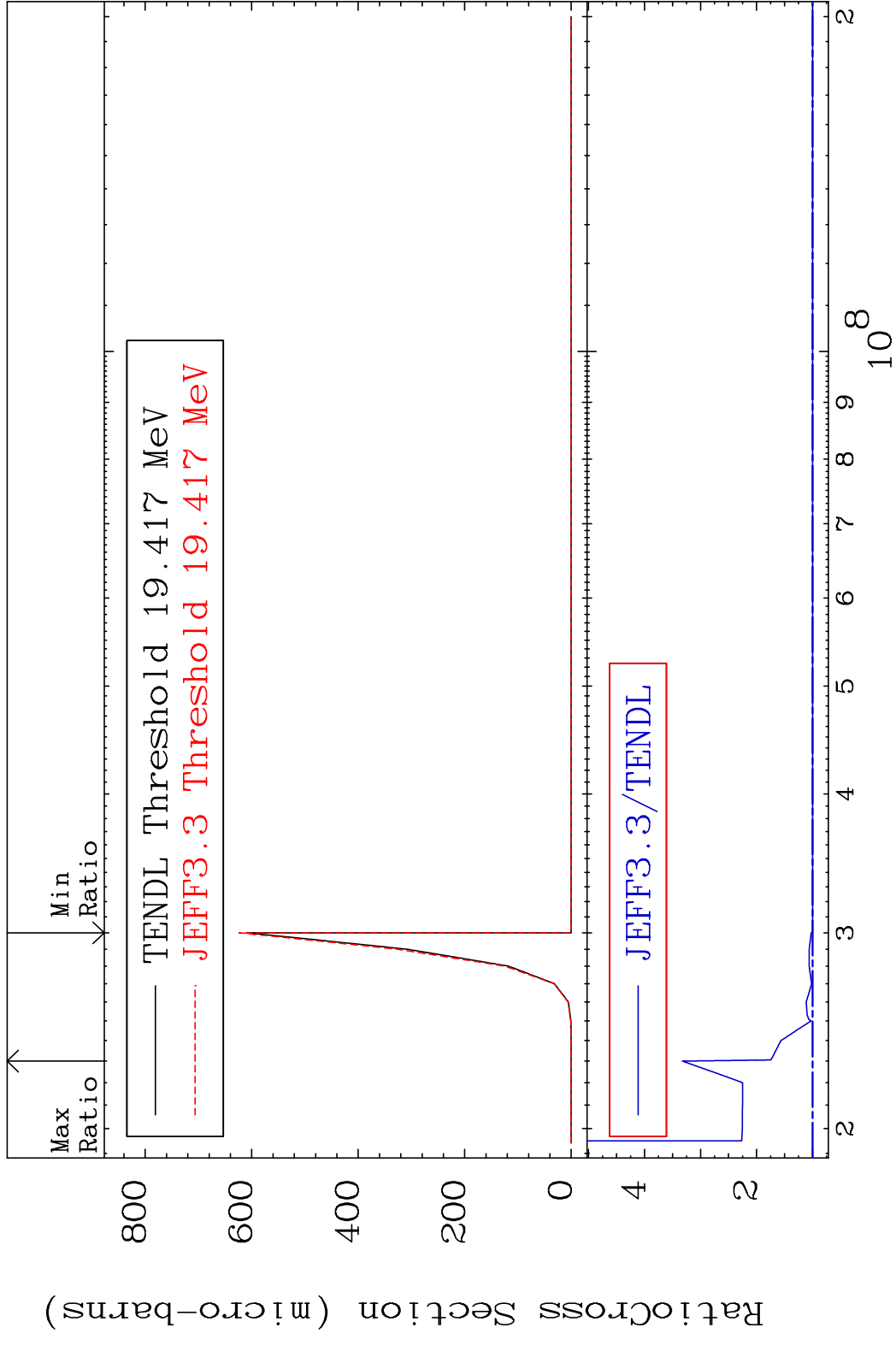


MAT 2728

(n,n') He-3

27-Co-60

Cross Section 0.000 To 232.5 %



14

Incident Energy (eV)

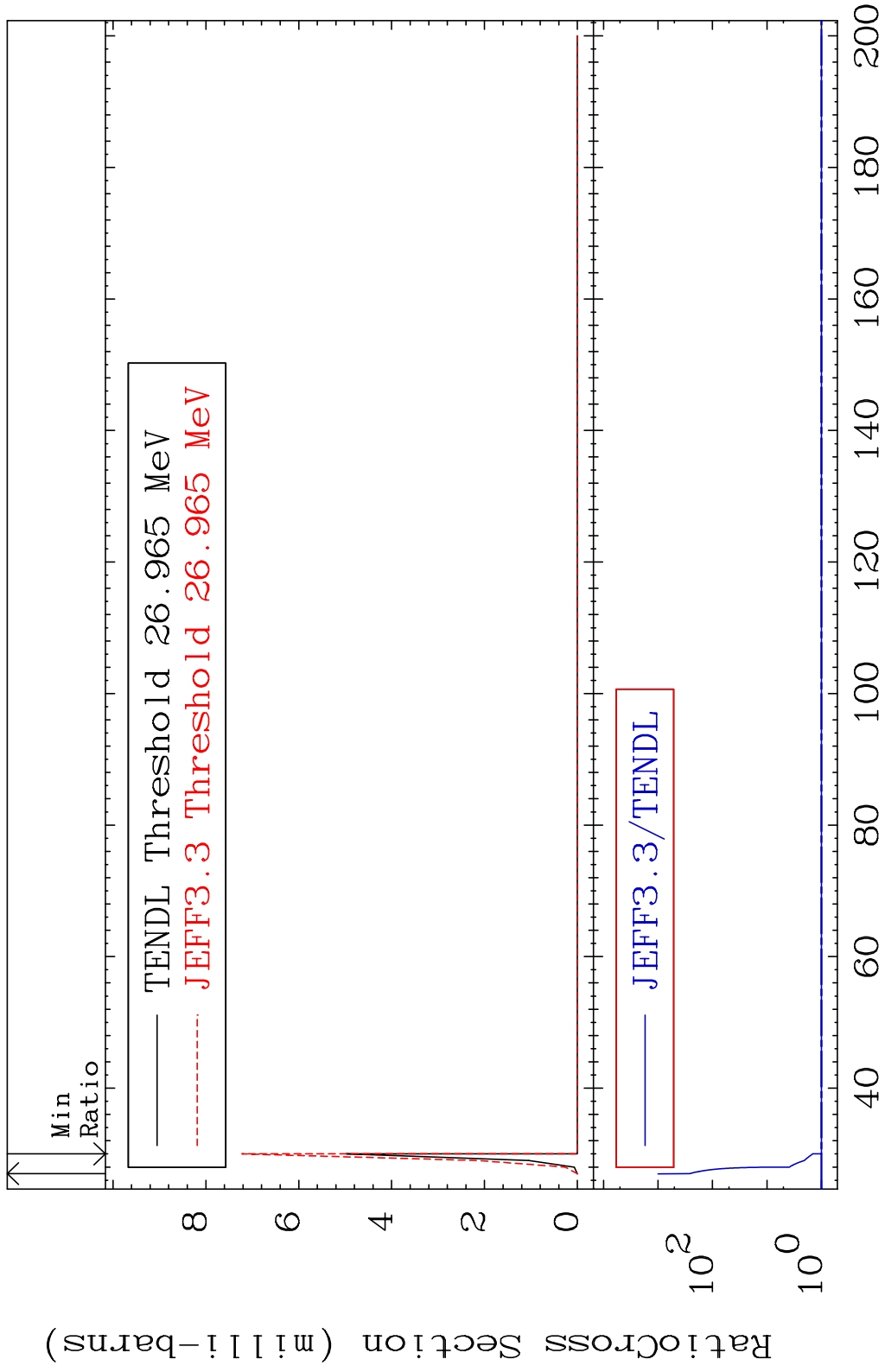
27-Co-60

MAT 2728

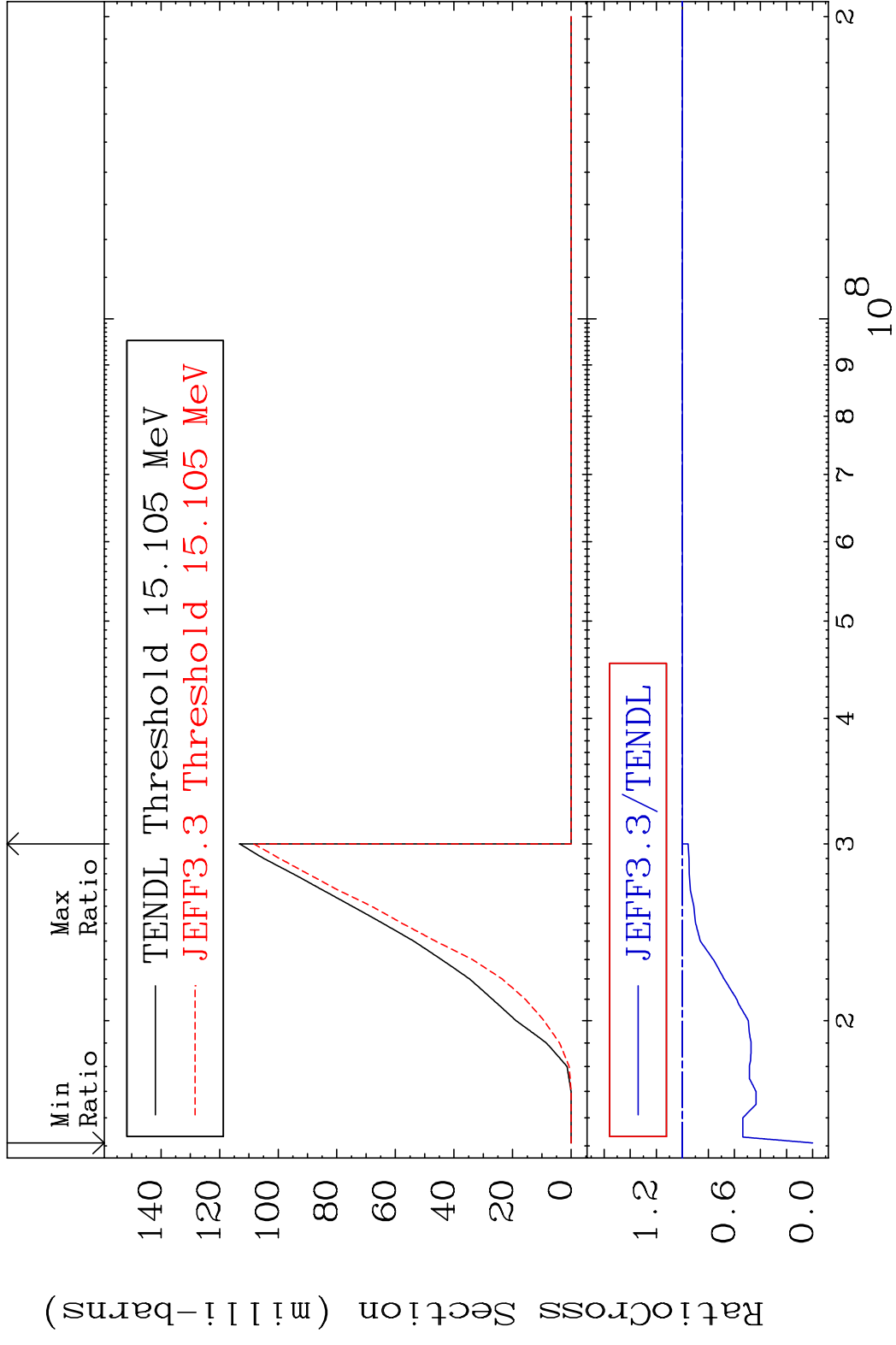
(n,4n)

27-Co-60

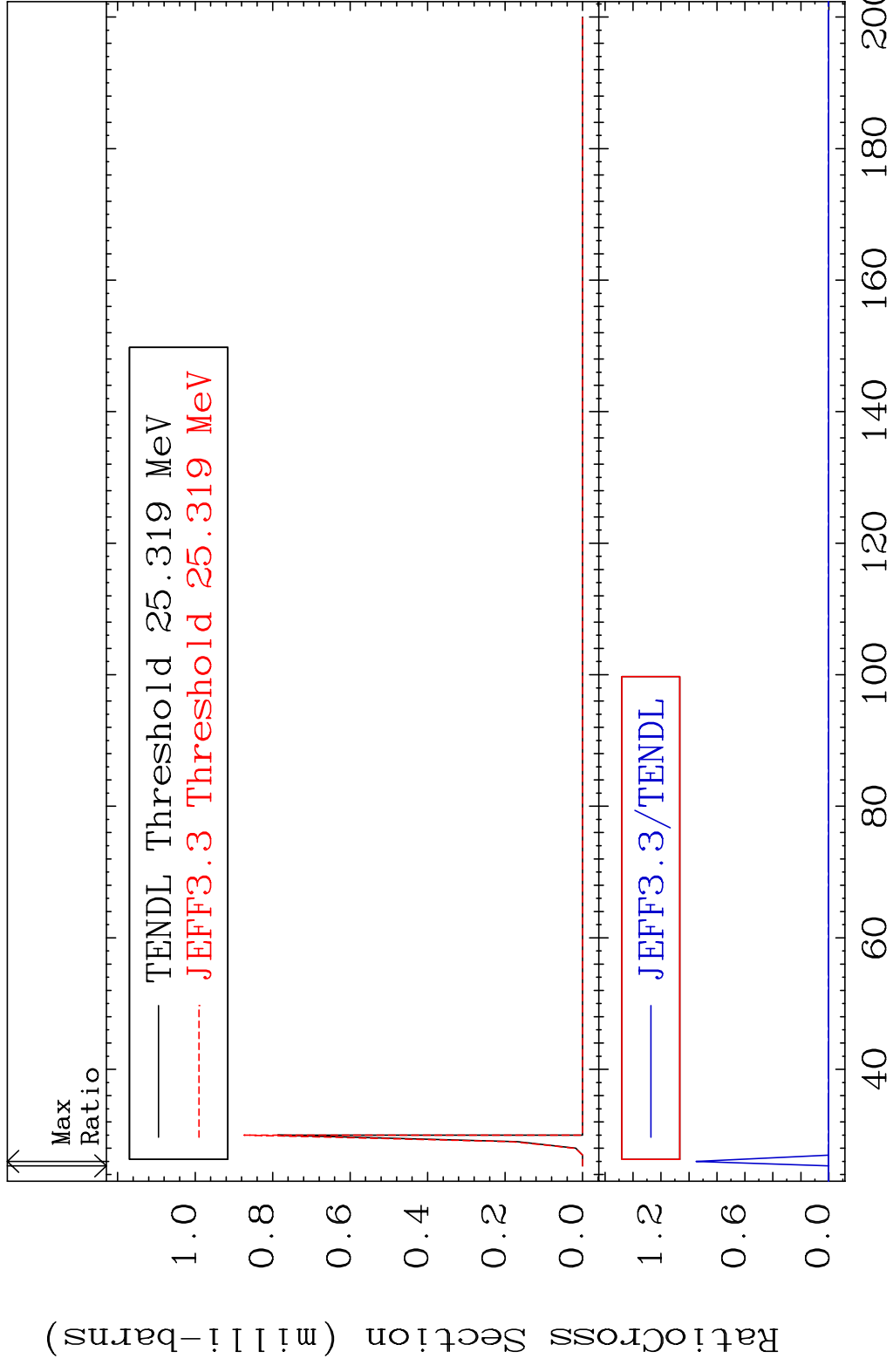
Cross Section 0.000 To 9999. %



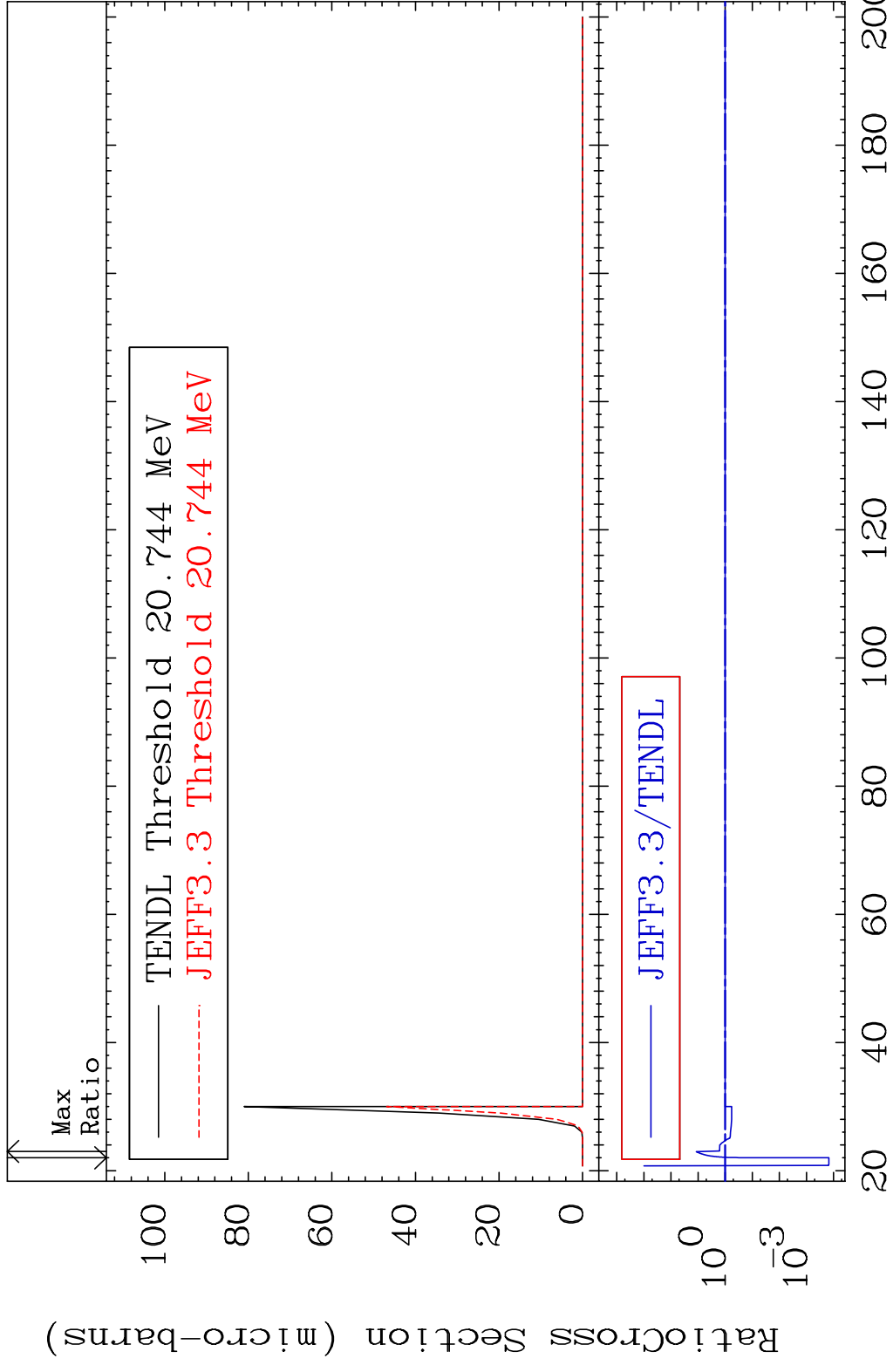
MAT 2728 (n,2n) p 27-Co-60
 Cross Section -100.0 To 0.000 %



MAT 2728 (n,3n) p 27-Co-60
 Cross Section -100.0 To 9999. %



MAT 2728 (n,2n) p 27-Co-60
 Cross Section -99.99 To 1090. %

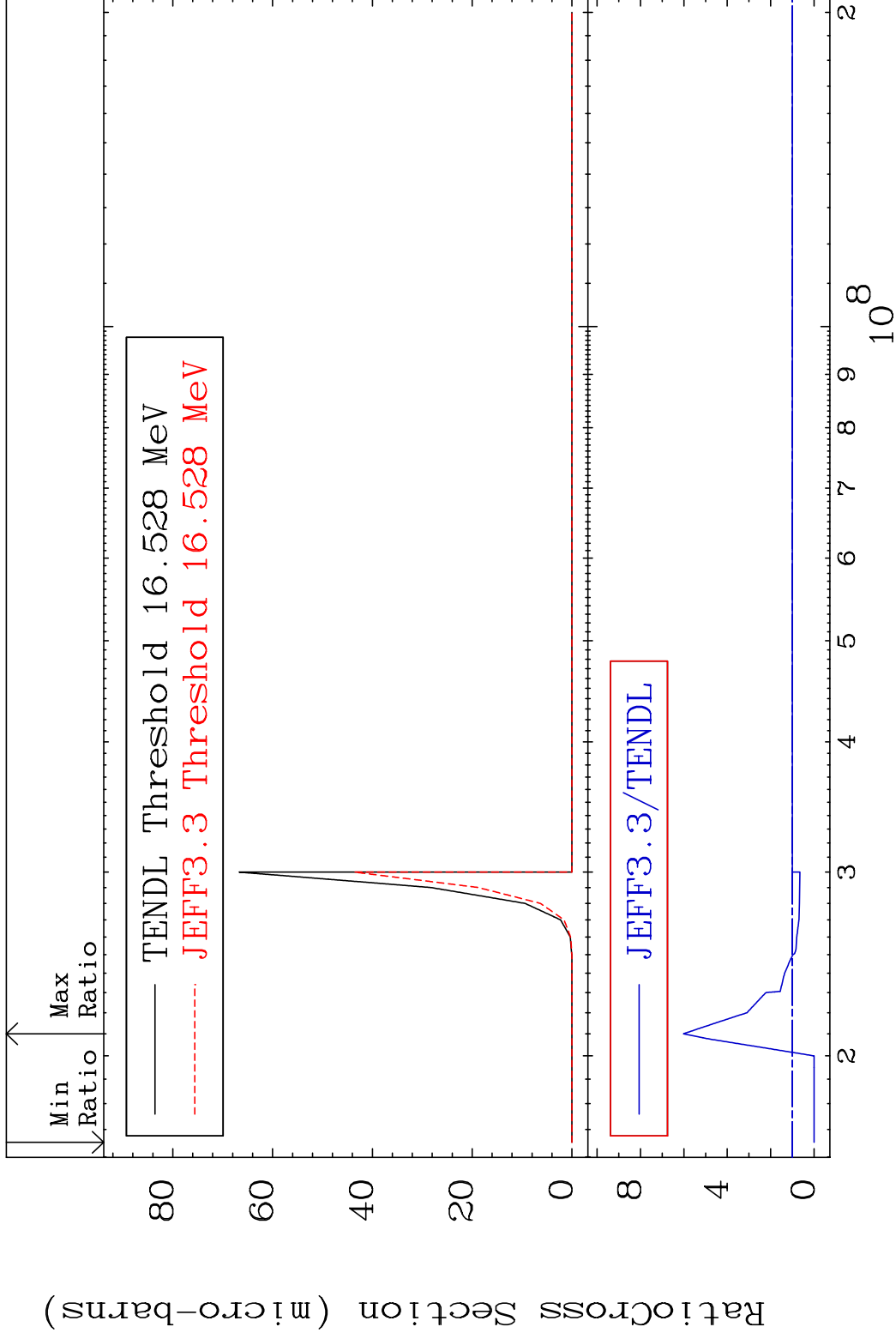


MAT 2728

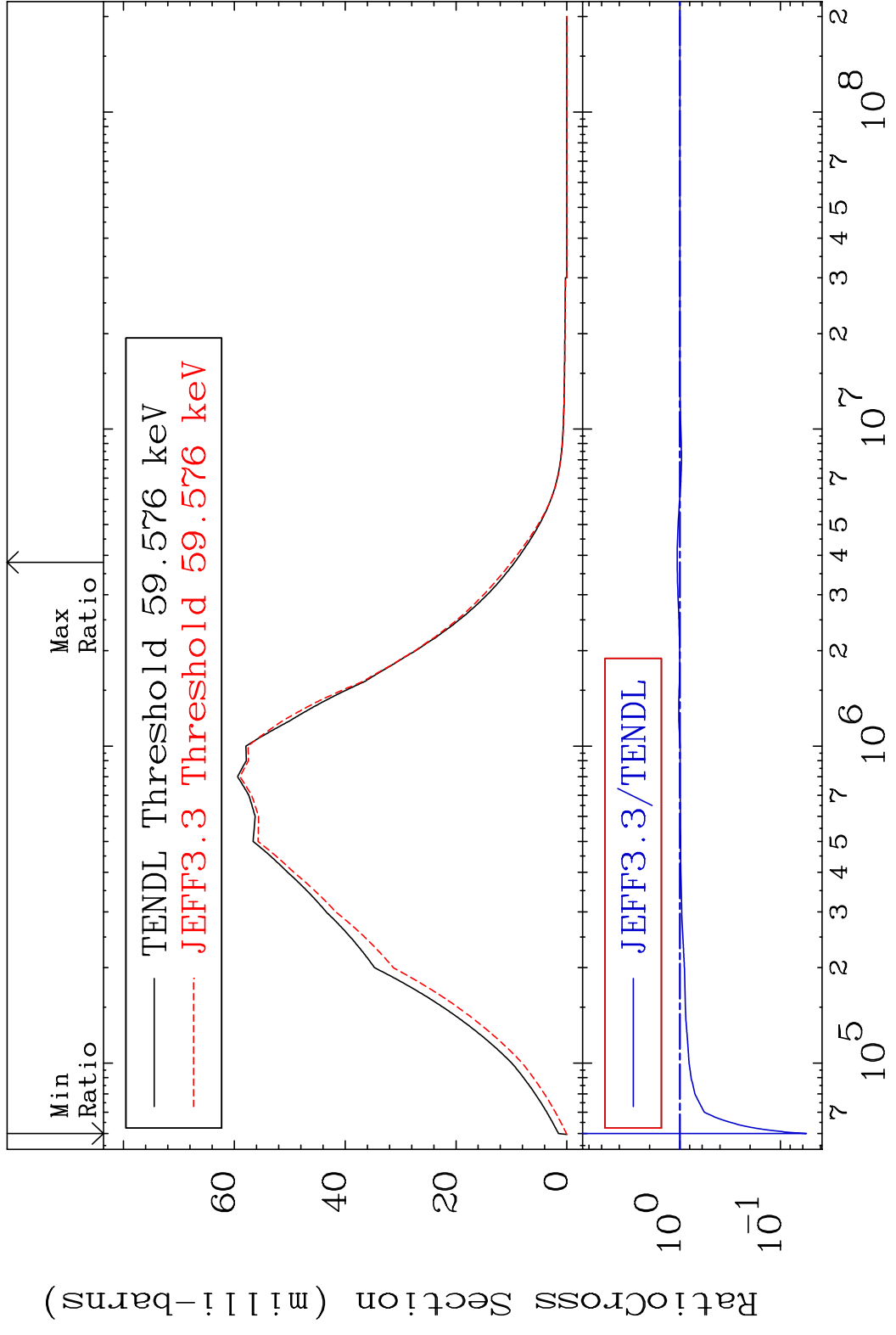
(n,n') p α

27-Co-60

Cross Section -100.0 To 502.1 %

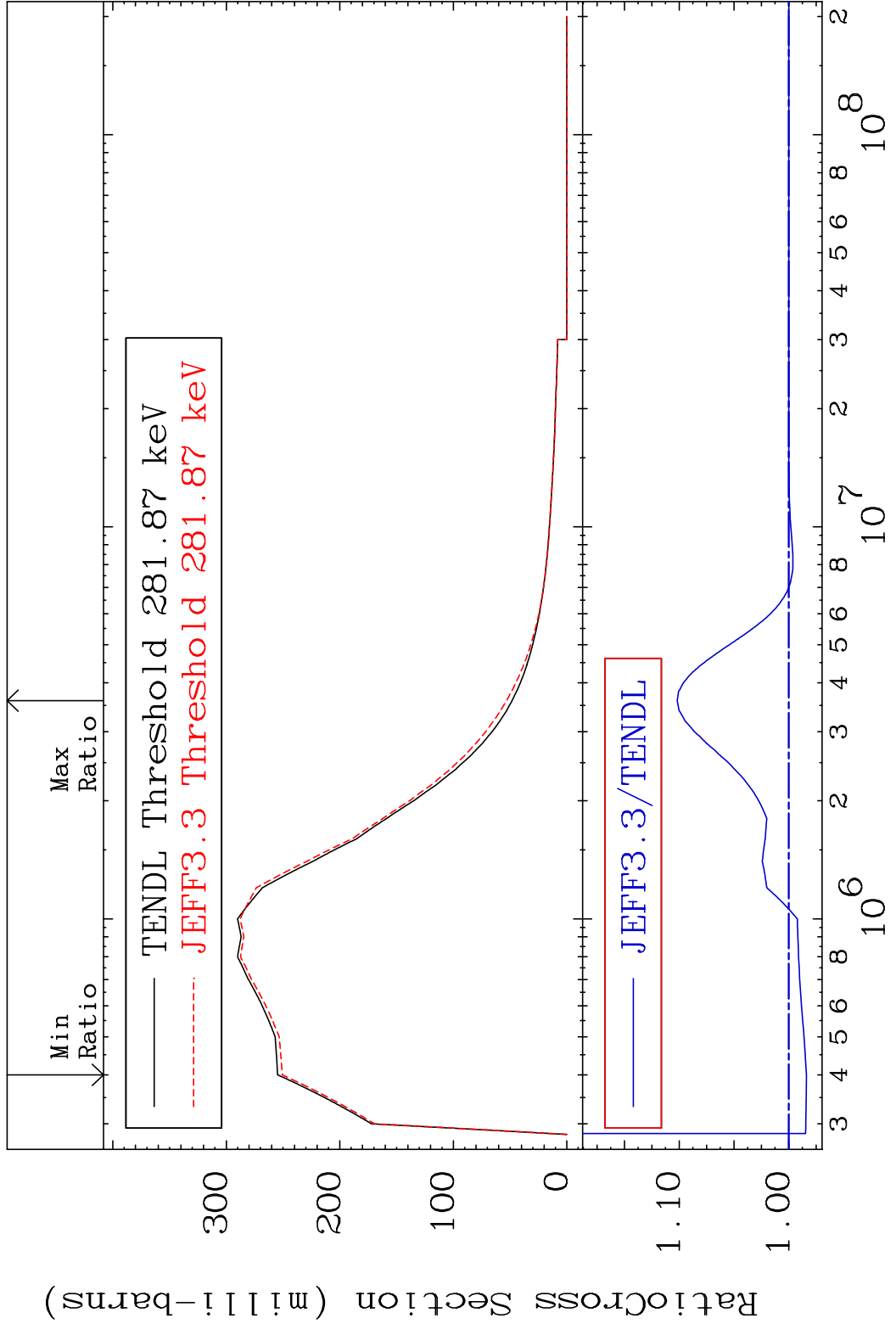


MAT 2728 MT= 51 (n, n') Level 27-Co-60
 Cross Section -94.48 To 6.329 %

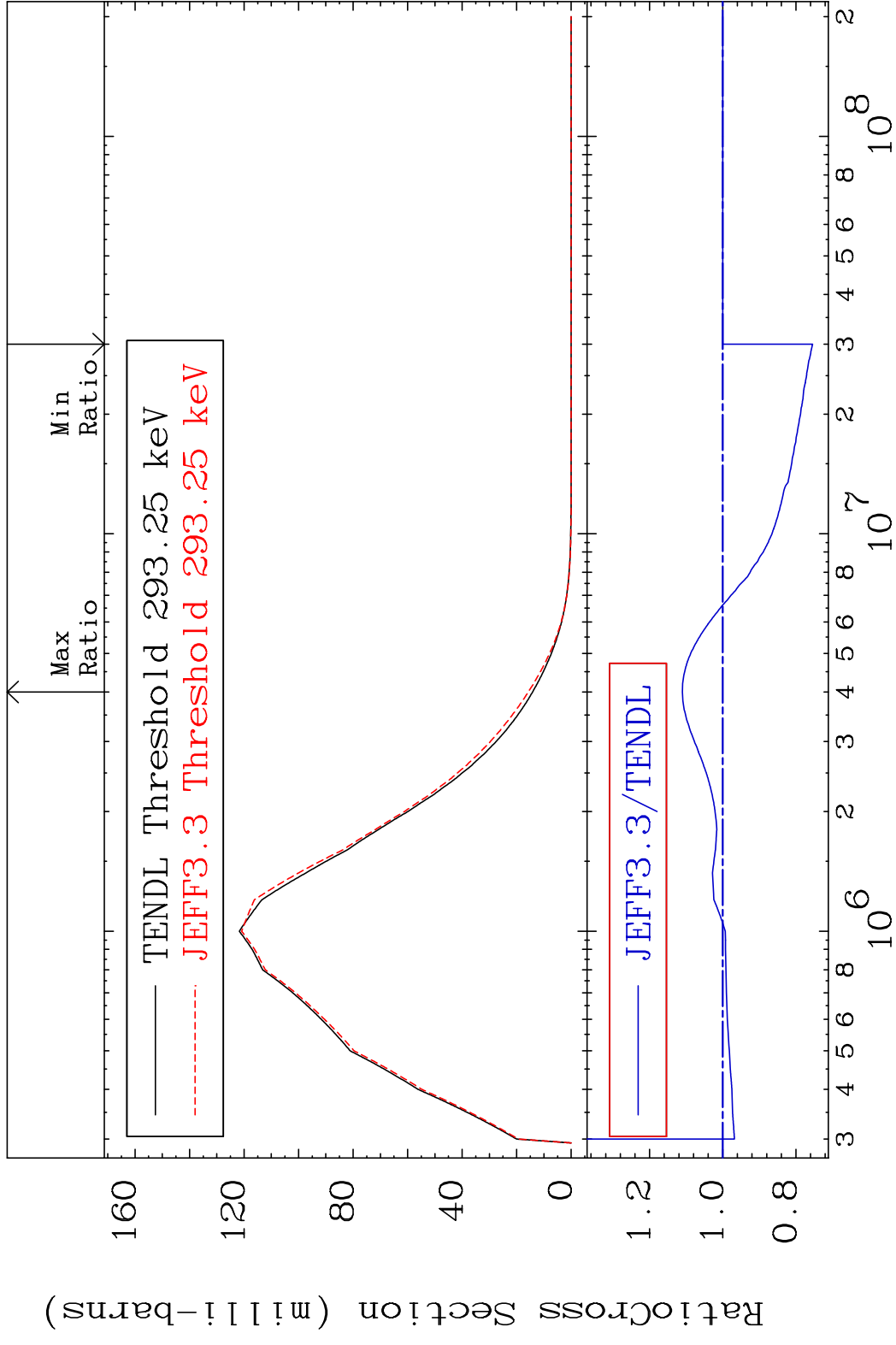


20 Incident Energy (eV) 27-Co-60

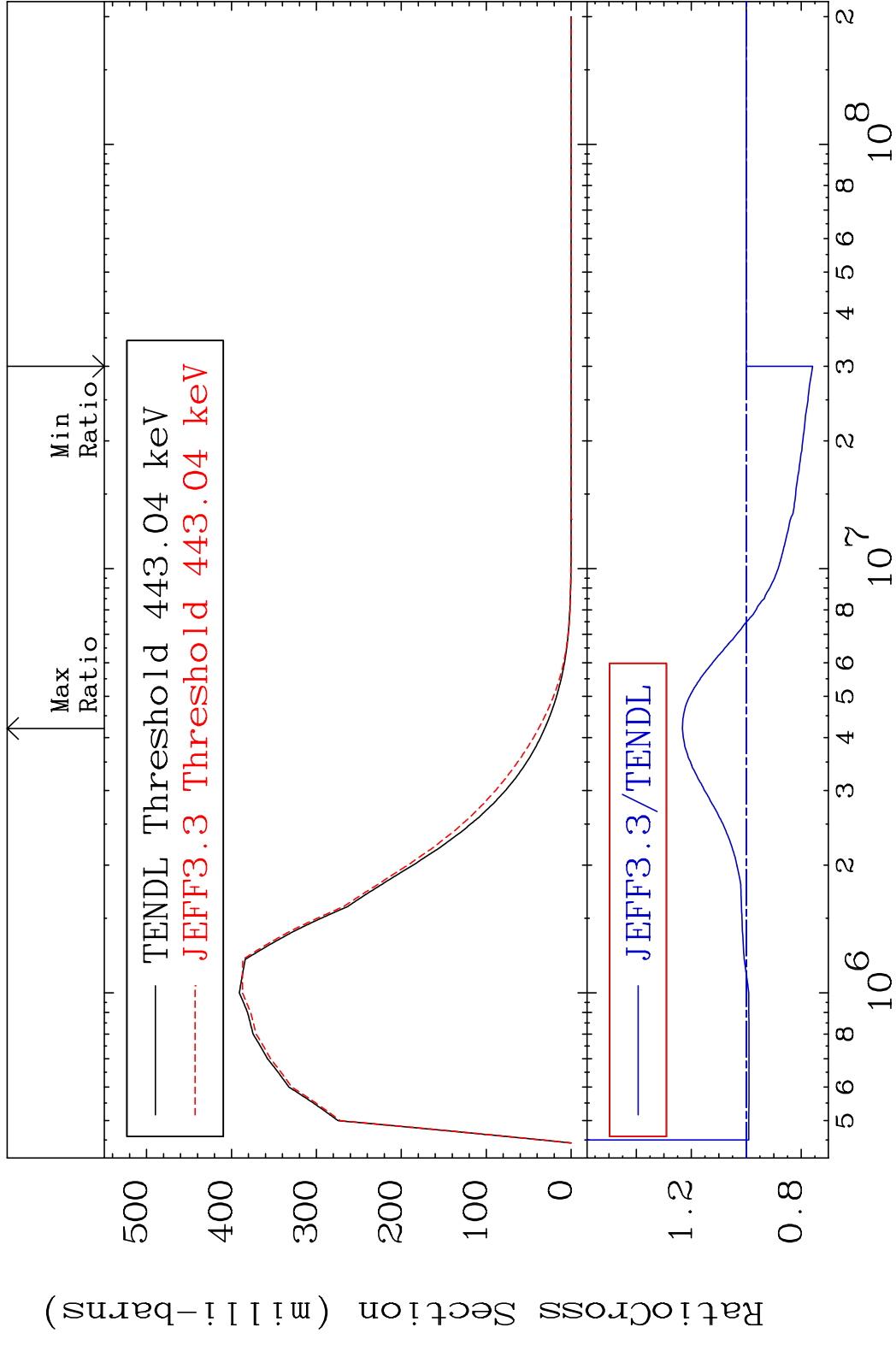
MAT 2728 MT= 52 (n,n') Level 27-Co-60
 Cross Section -1.614 To 10.18 %



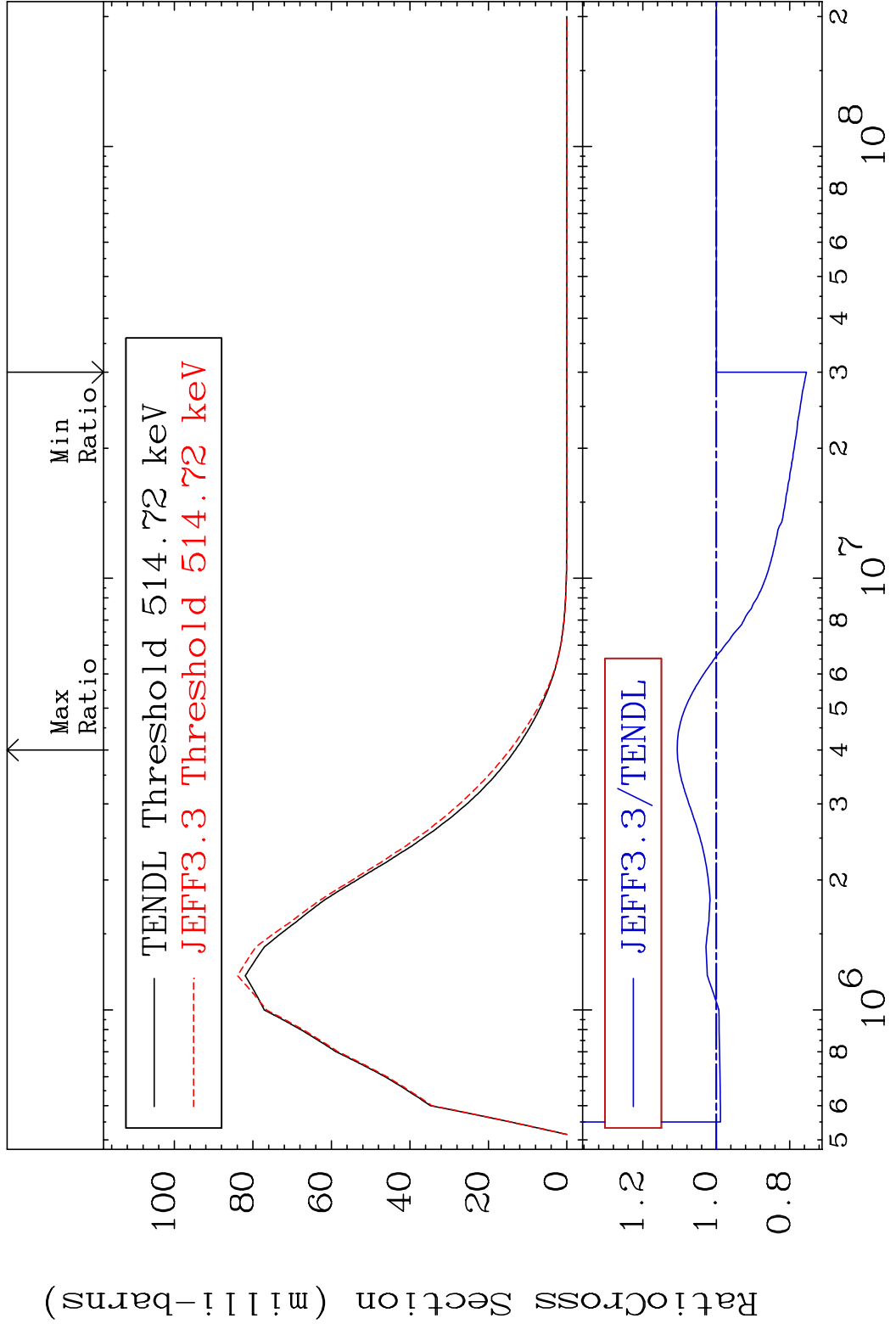
MAT 2728 MT= 53 (n, n') Level 27-Co-60
 Cross Section -24.54 To 11.04 %



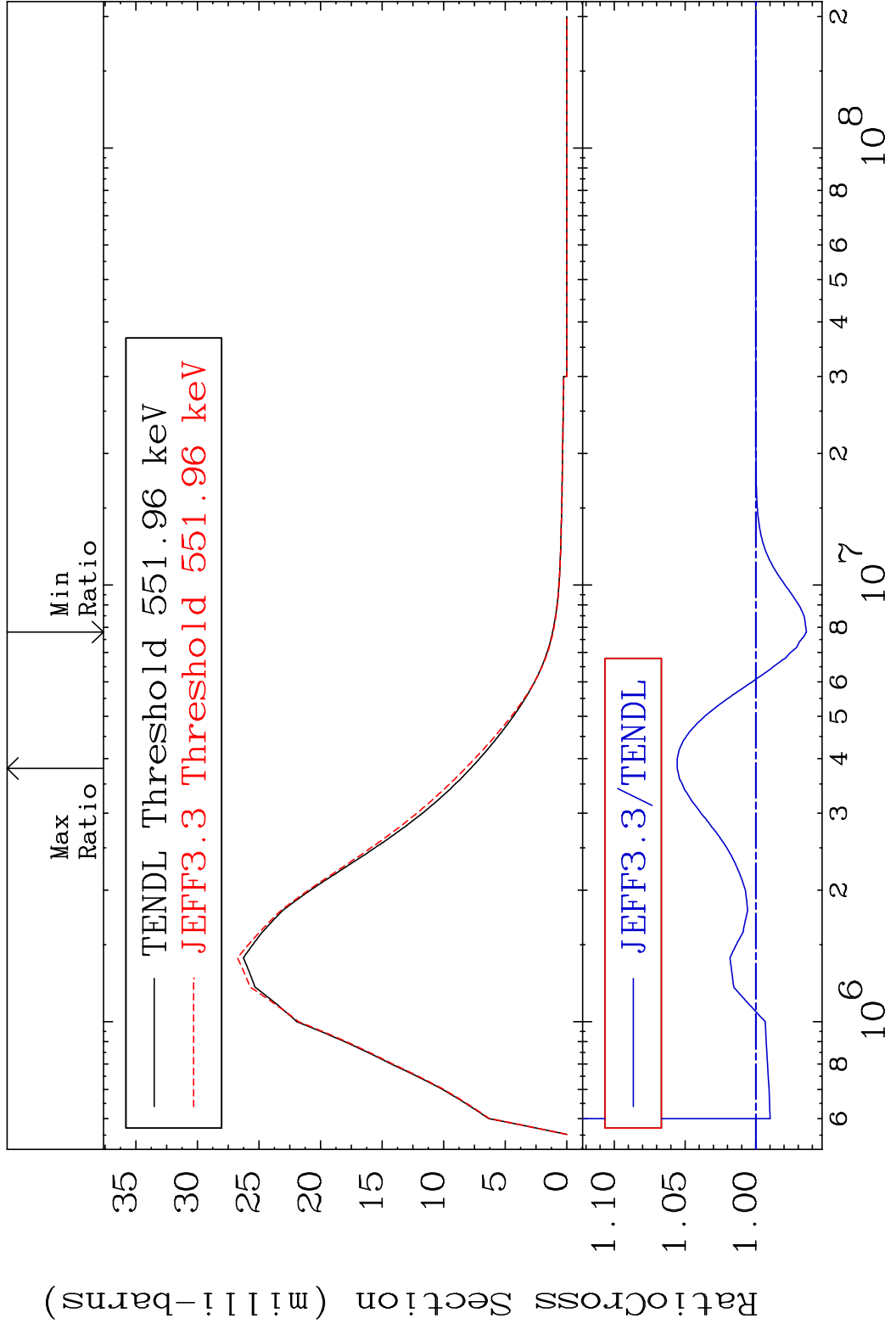
MAT 2728 MT= 54 (n, n') Level 27-Co-60
 Cross Section -24.13 To 23.26 %



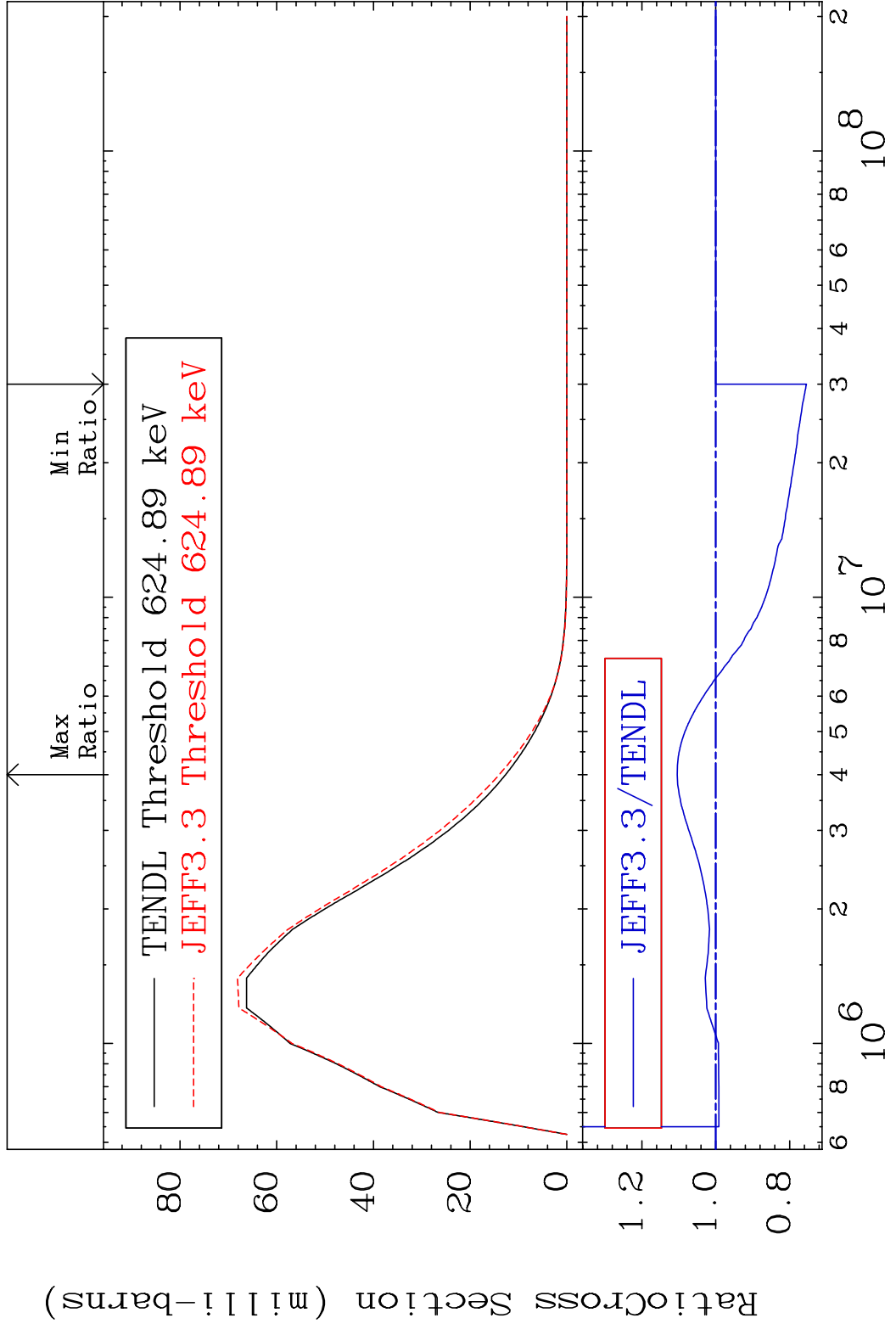
MAT 2728 MT= 55 (n,n') Level 27-Co-60
 Cross Section -24.54 To 10.64 %



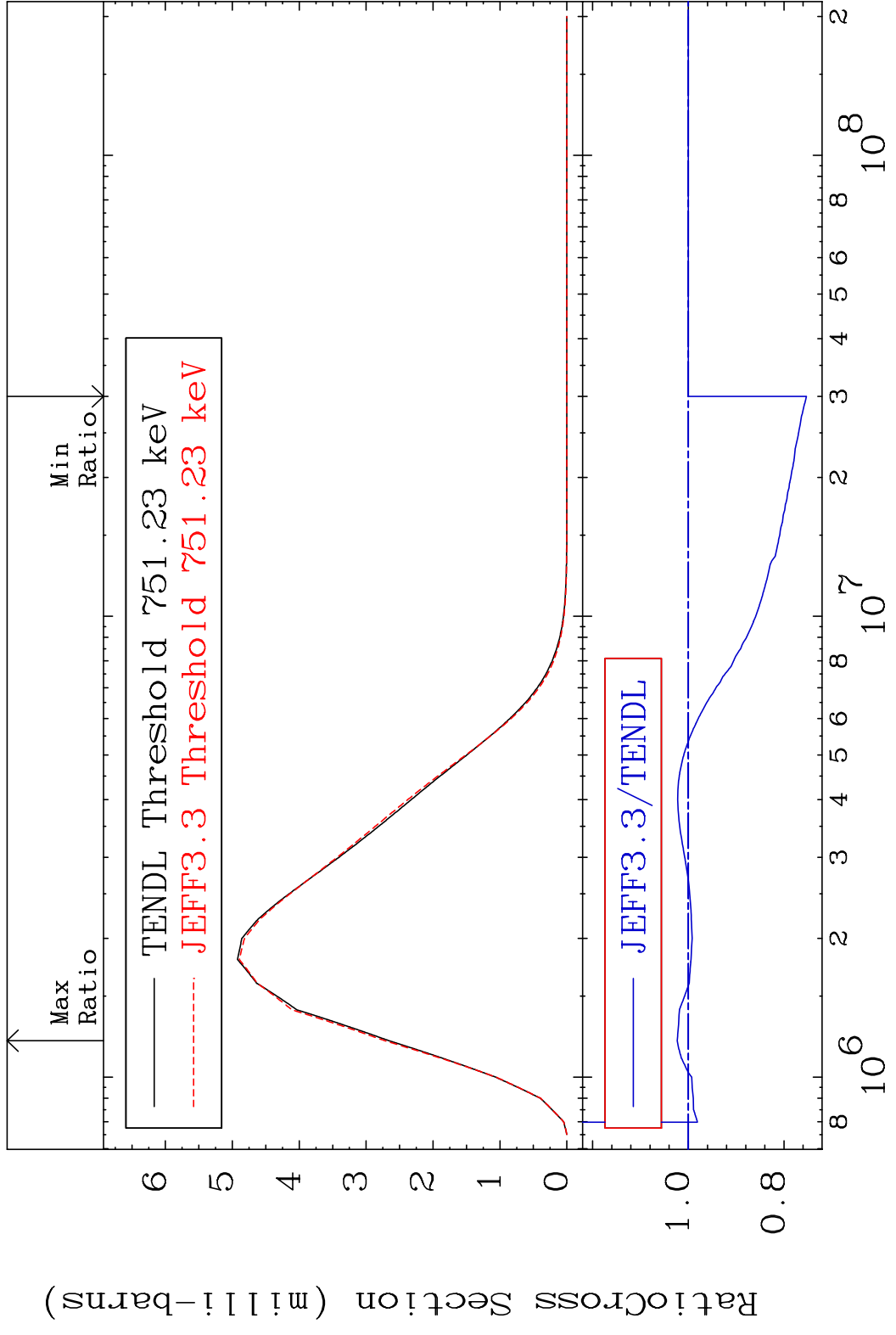
MAT 2728 MT= 56 (n, n') Level 27-Co-60
 Cross Section -3.577 To 5.555 %



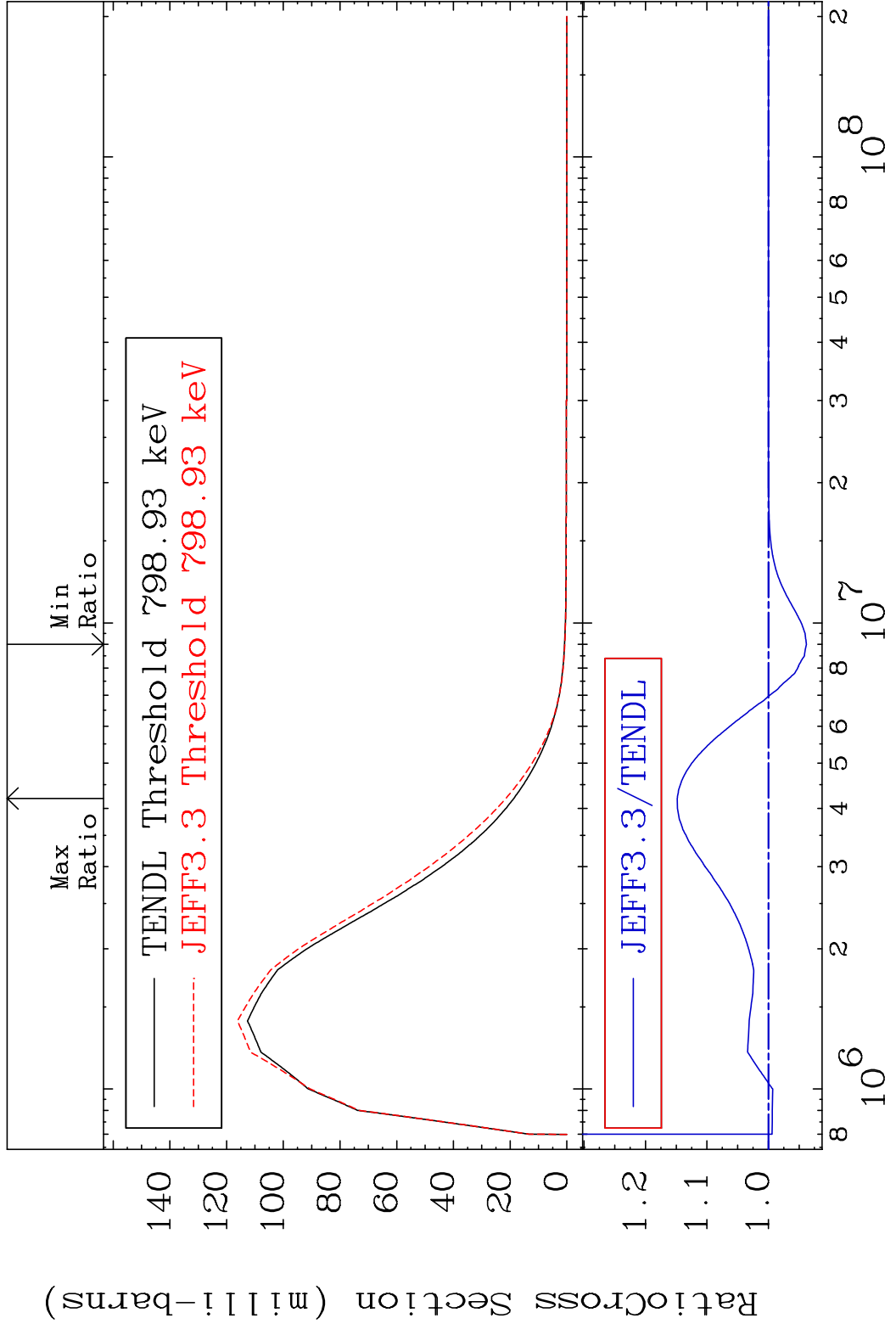
MAT 2728 MT= 57 (n, n') Level 27-Co-60
 Cross Section -24.54 To 10.43 %



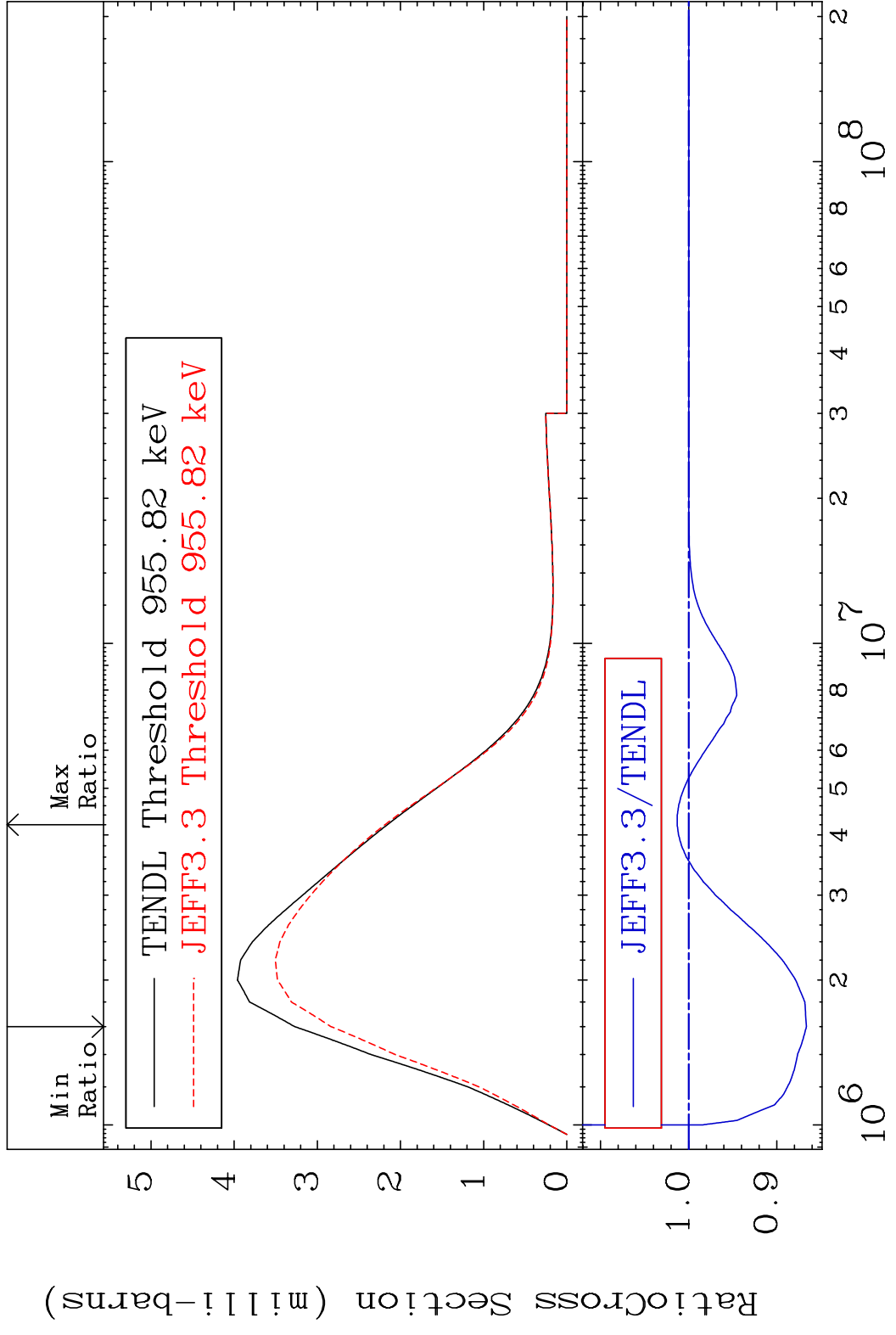
MAT 2728 MT= 58 (n, n') Level 27-Co-60
 Cross Section -24.68 To 2.323 %



MAT 2728 MT= 59 (n, n') Level 27-Co-60
 Cross Section -6.185 To 14.85 %

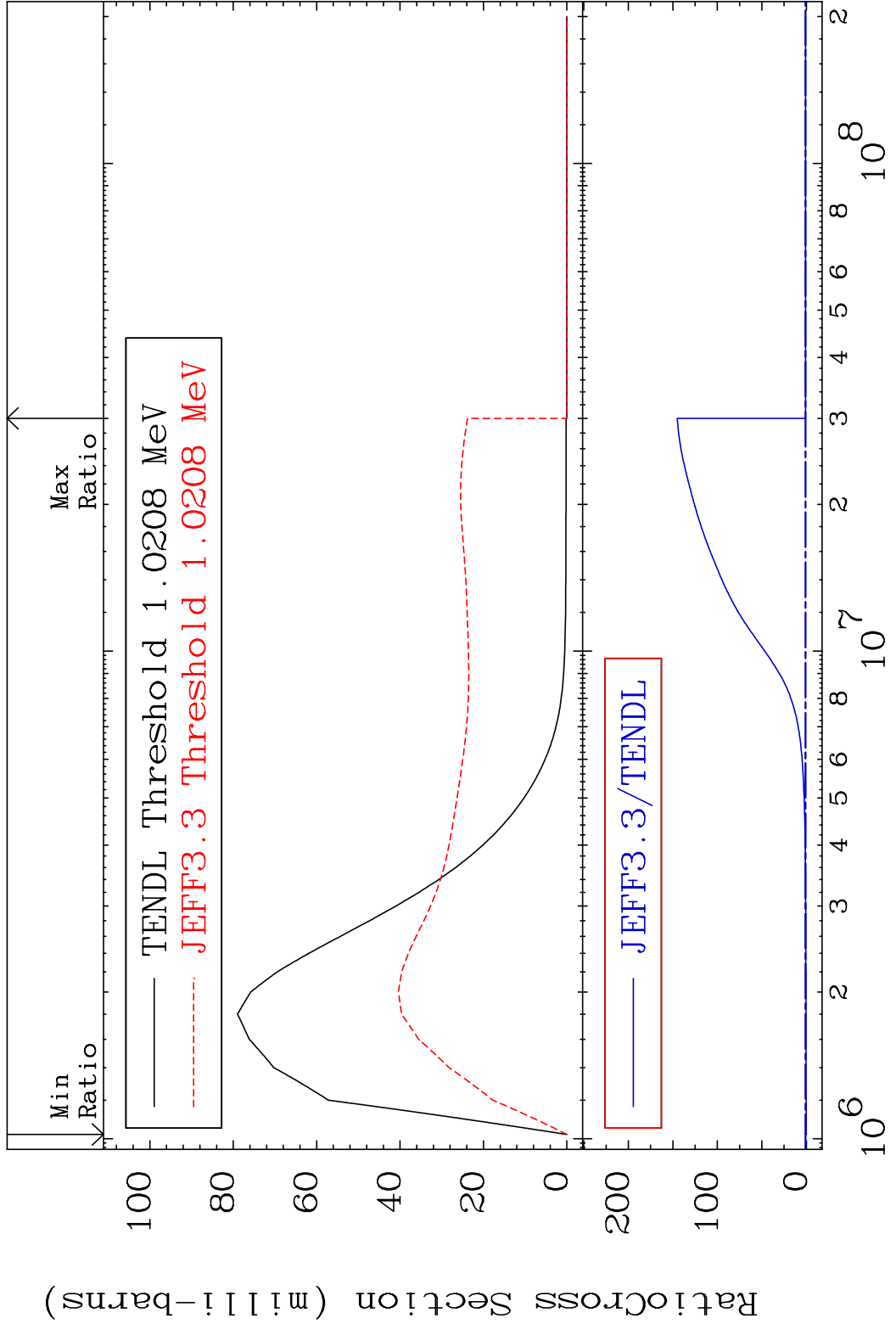


MAT 2728 MT= 60 (n, n') Level 27-Co-60
 Cross Section -13.36 To 1.307 %



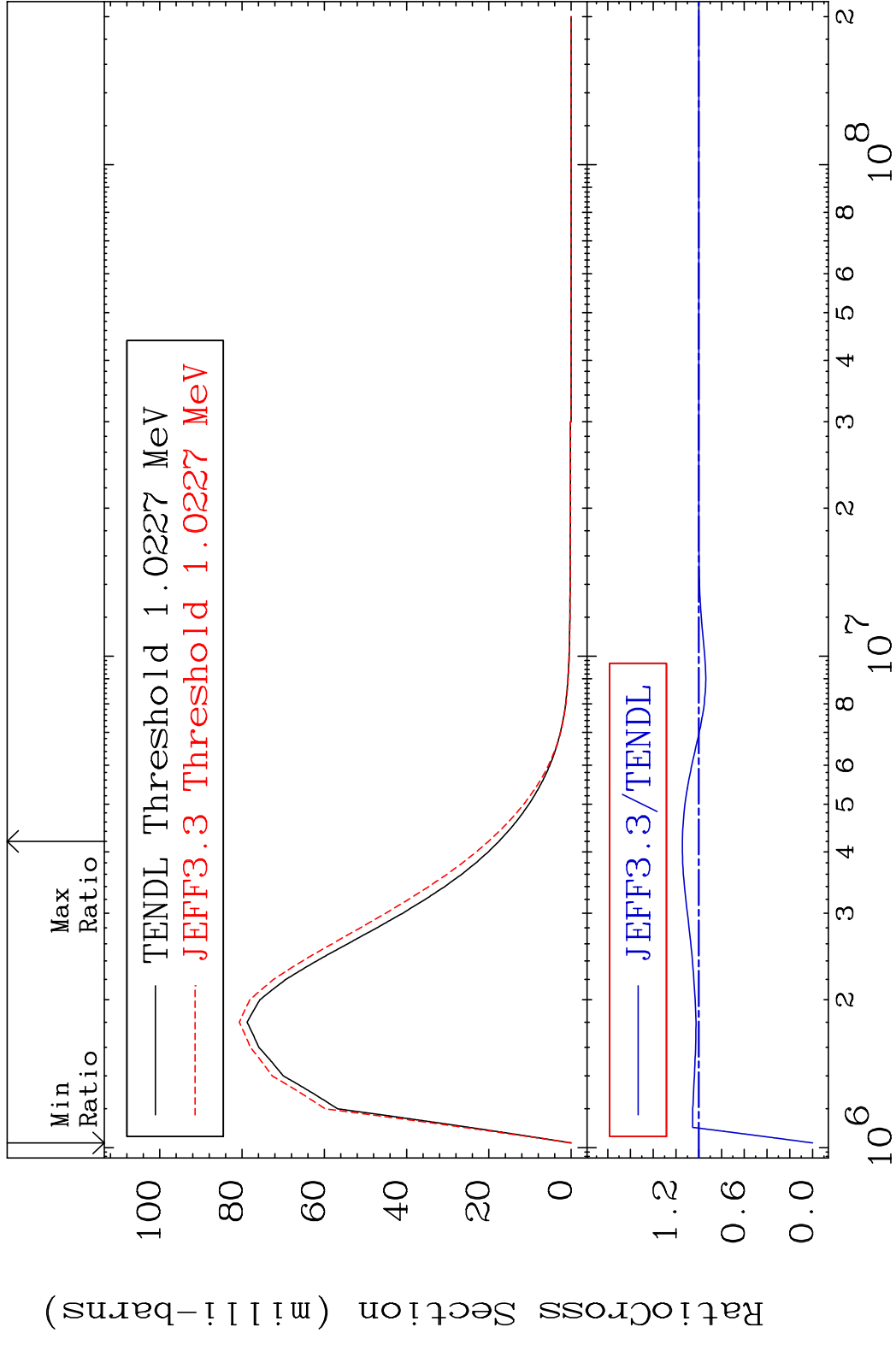
27-Co-60

MAT 2728 MT= 61 (n, n') Level 27-Co-60
 Cross Section -100.0 To 9999. %

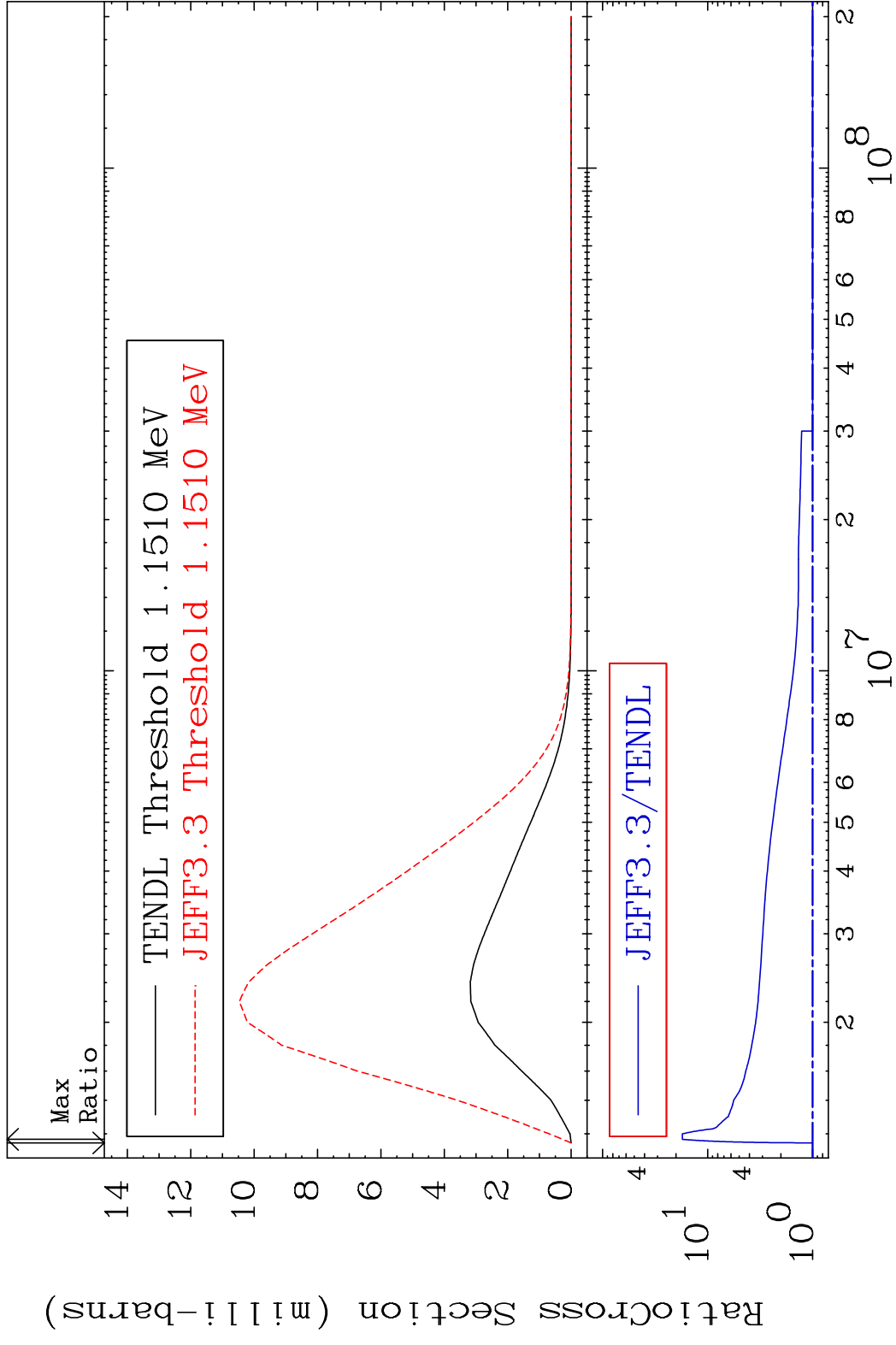


30 Incident Energy (eV) 27-Co-60

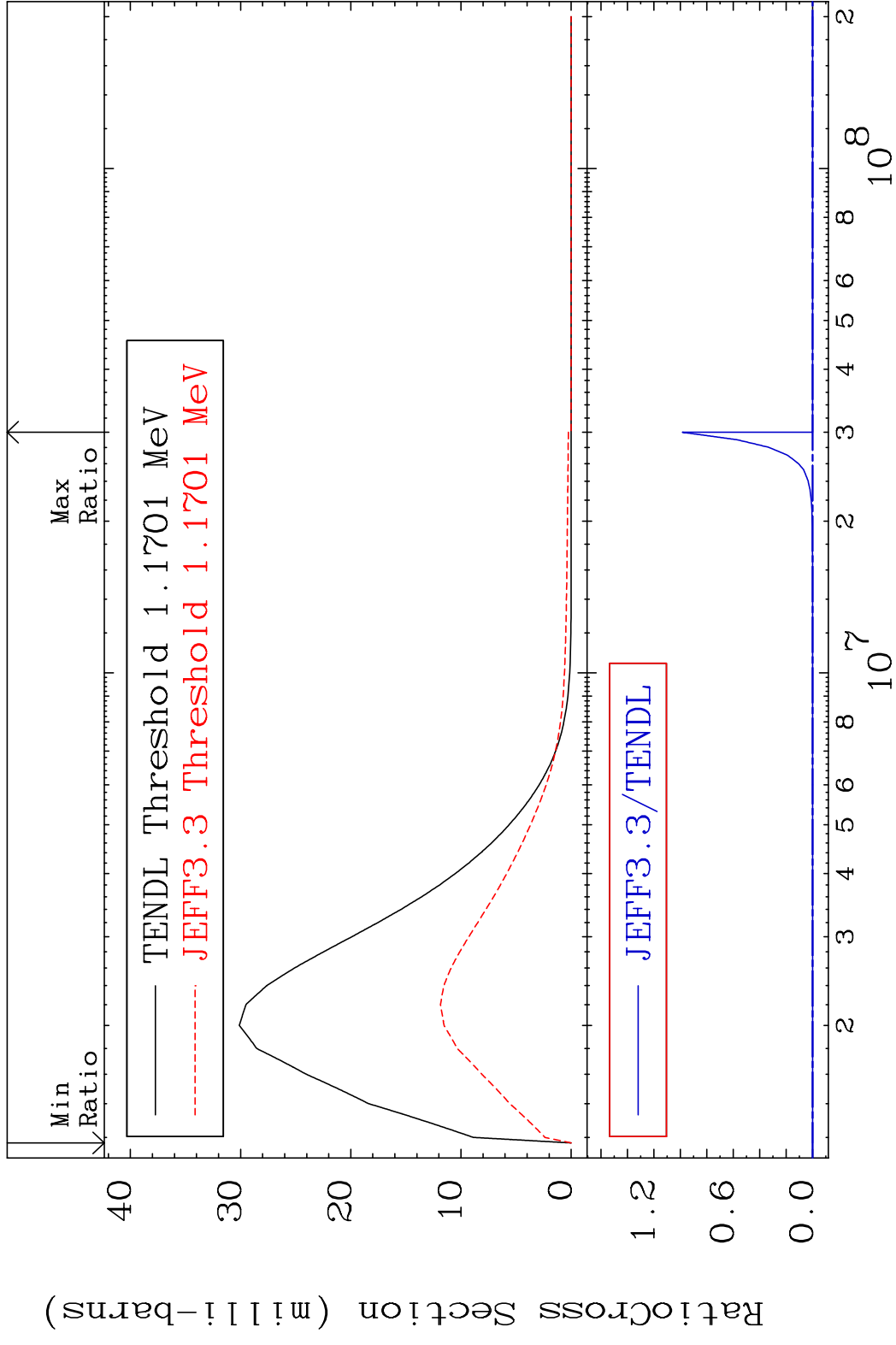
MAT 2728 MT= 62 (n, n') Level 27-Co-60
 Cross Section -100.0 To 14.41 %



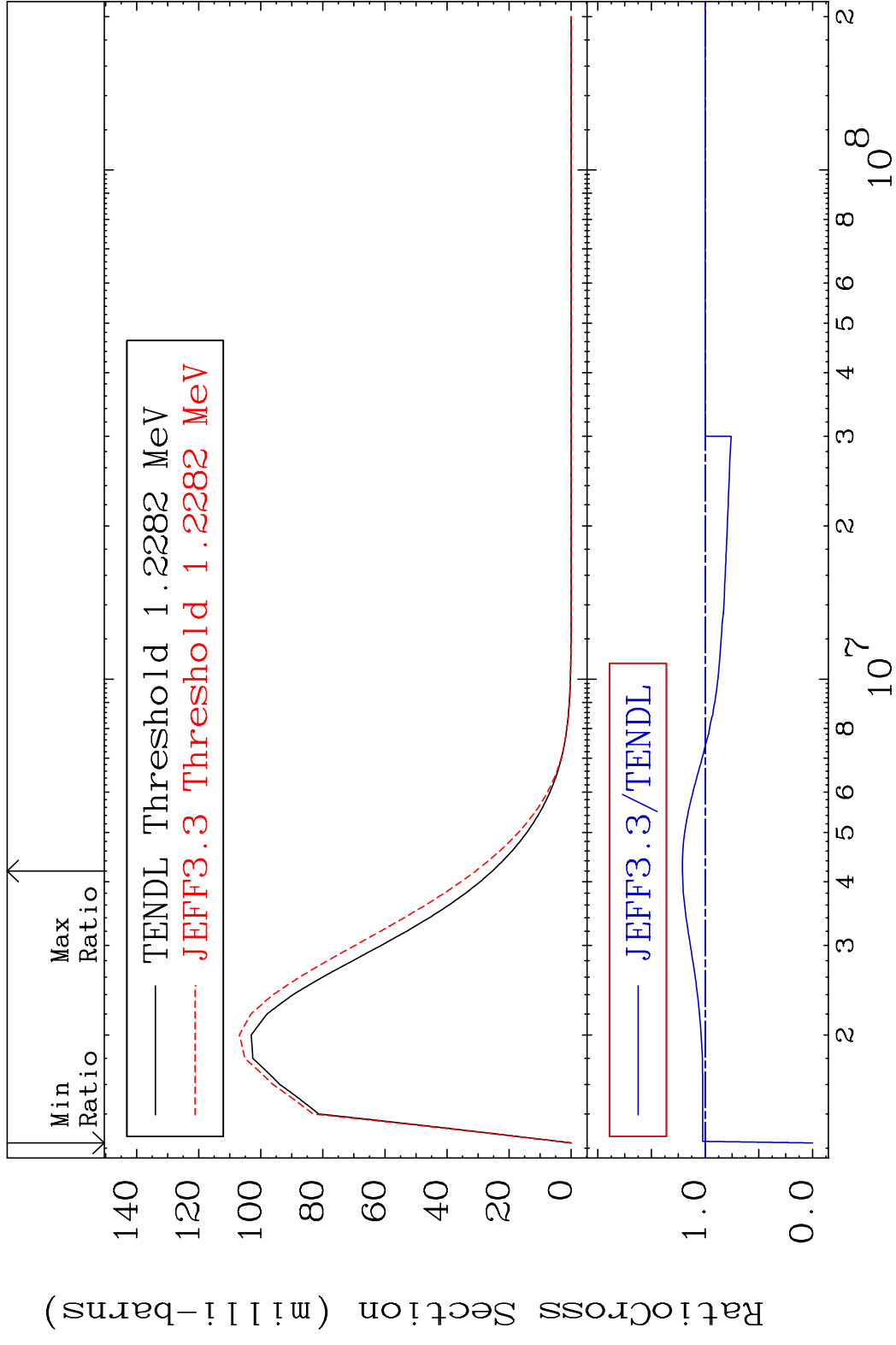
MAT 2728 MT= 63 (n, n') Level 27-Co-60
 Cross Section 0.000 To 1640. %



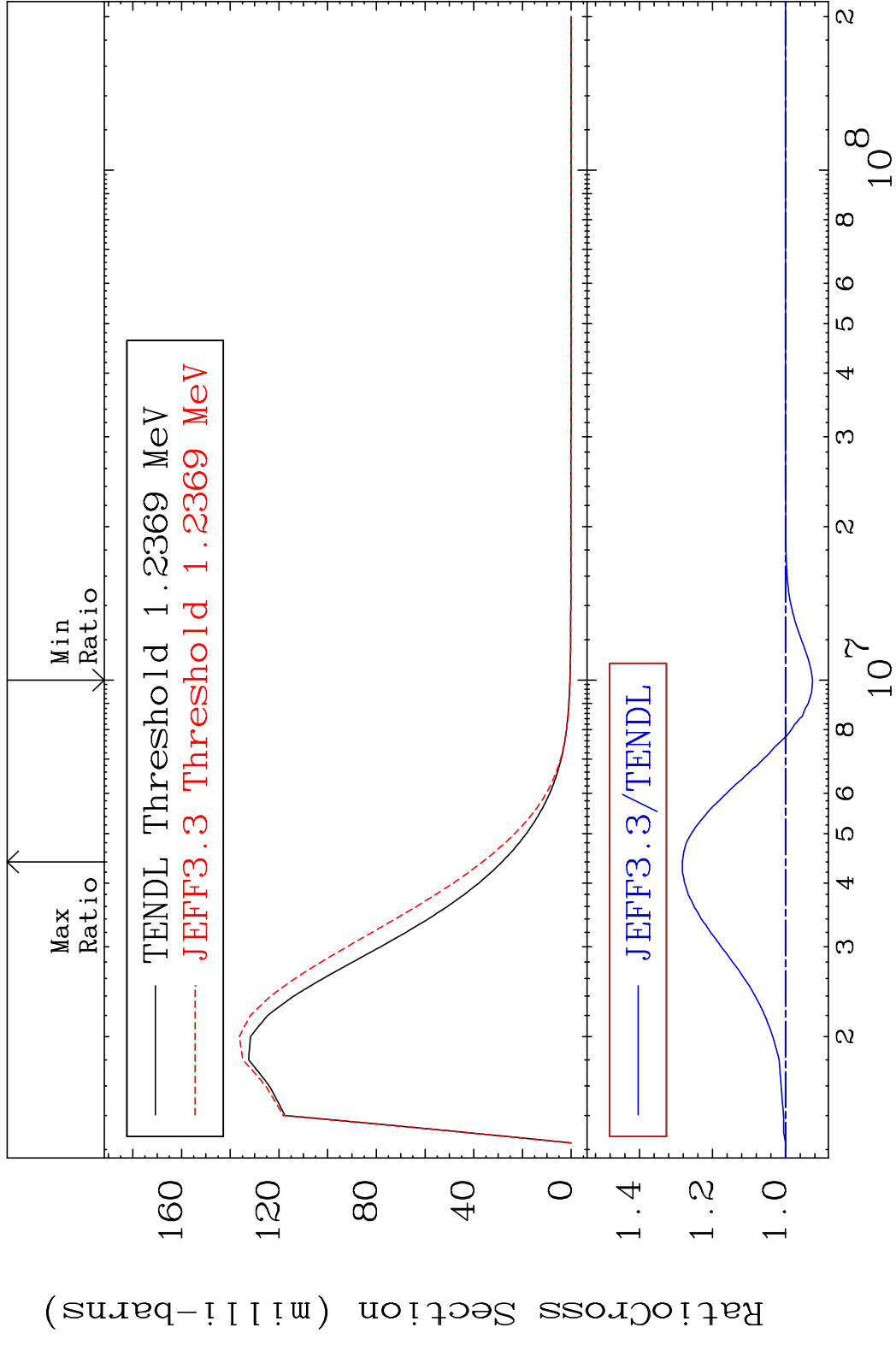
MAT 2728 MT= 64 (n, n') Level 27-Co-60
 Cross Section -100.0 To 9999. %



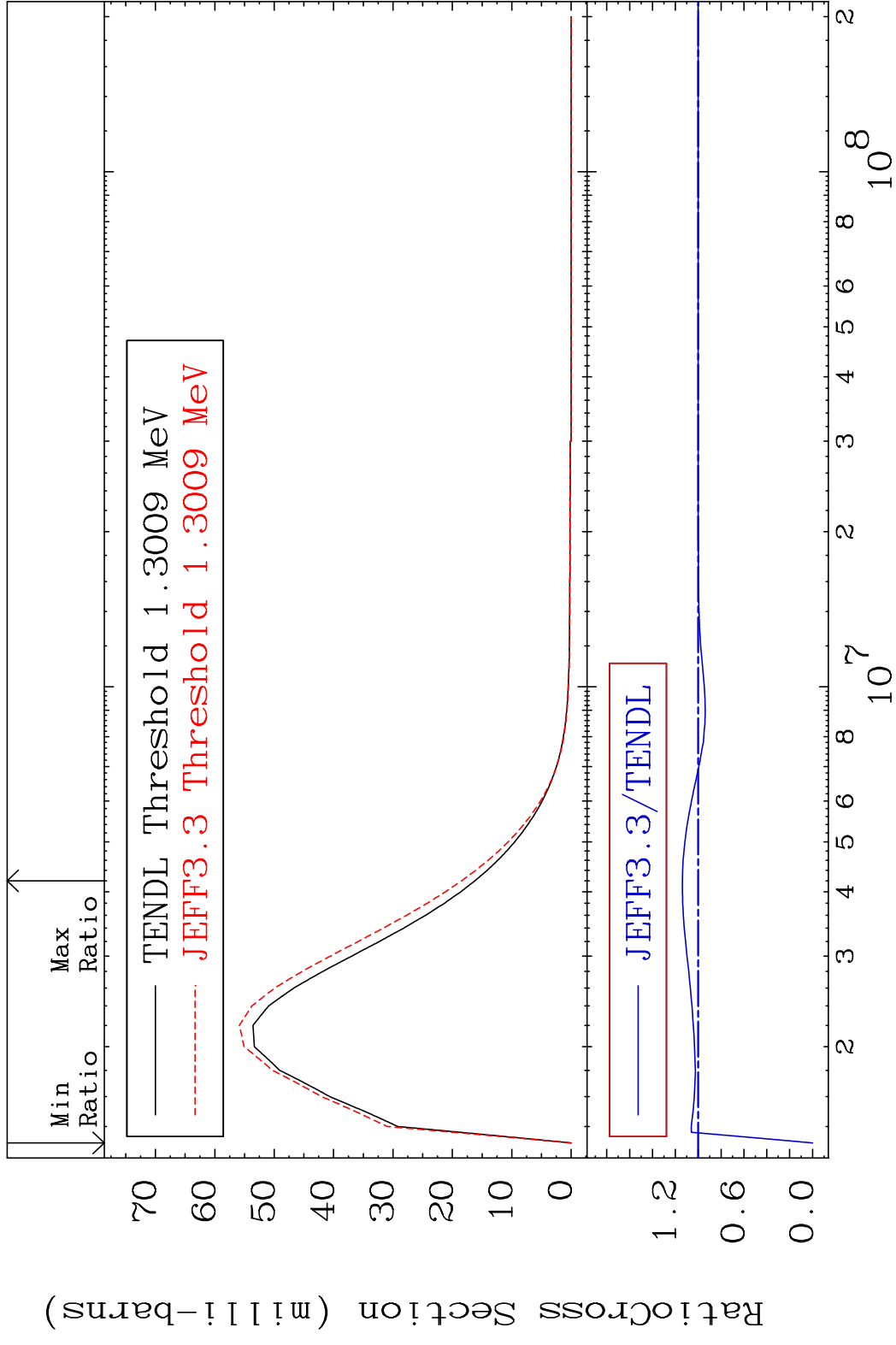
MAT 2728 MT= 65 (n, n') Level 27-Co-60
 Cross Section -100.0 To 21.25 %



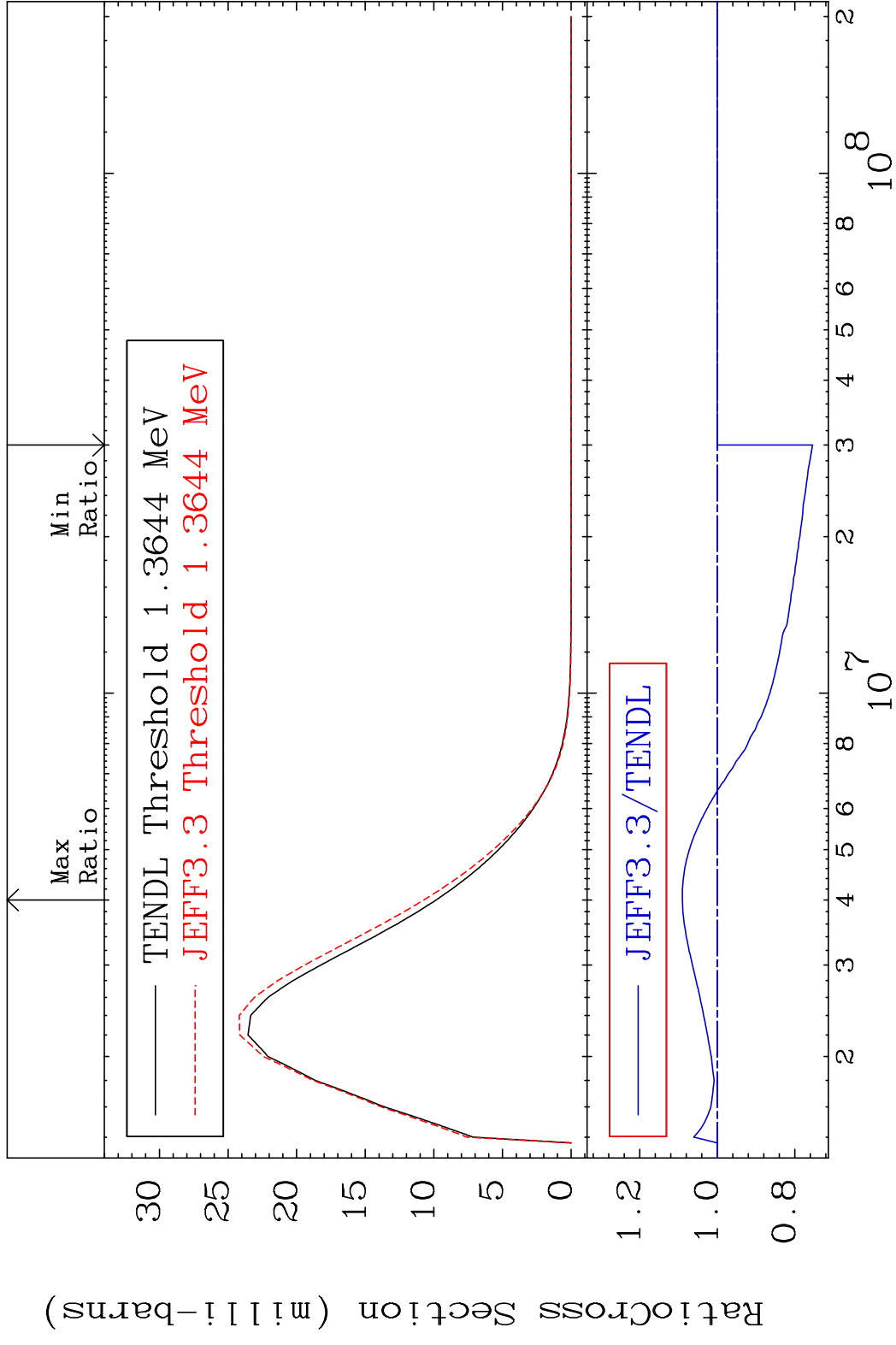
MAT 2728 MT= 66 (n,n') Level 27-Co-60
 Cross Section -7.388 To 28.25 %



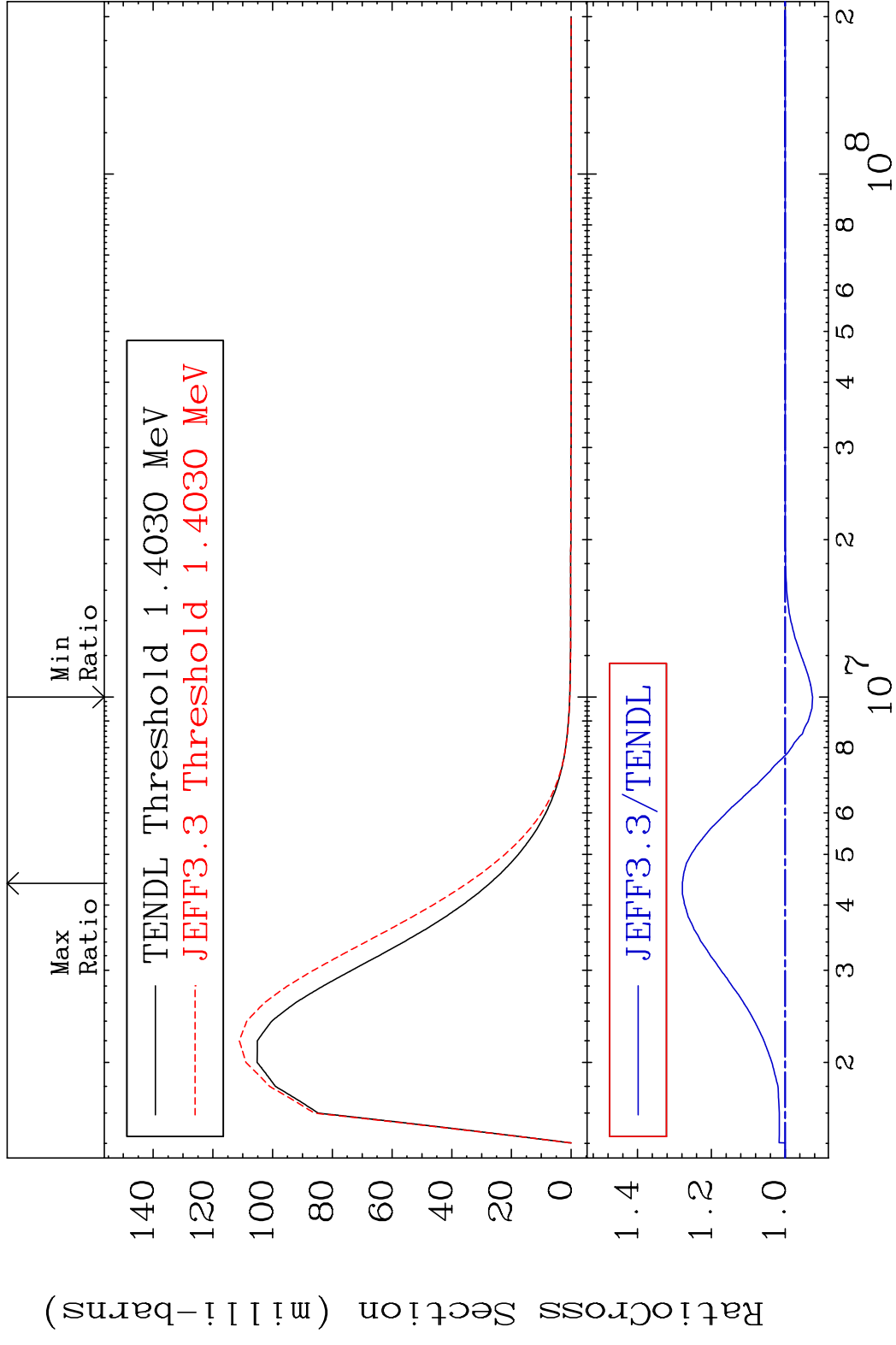
MAT 2728 MT= 67 (n, n') Level 27-Co-60
 Cross Section -100.0 To 13.86 %



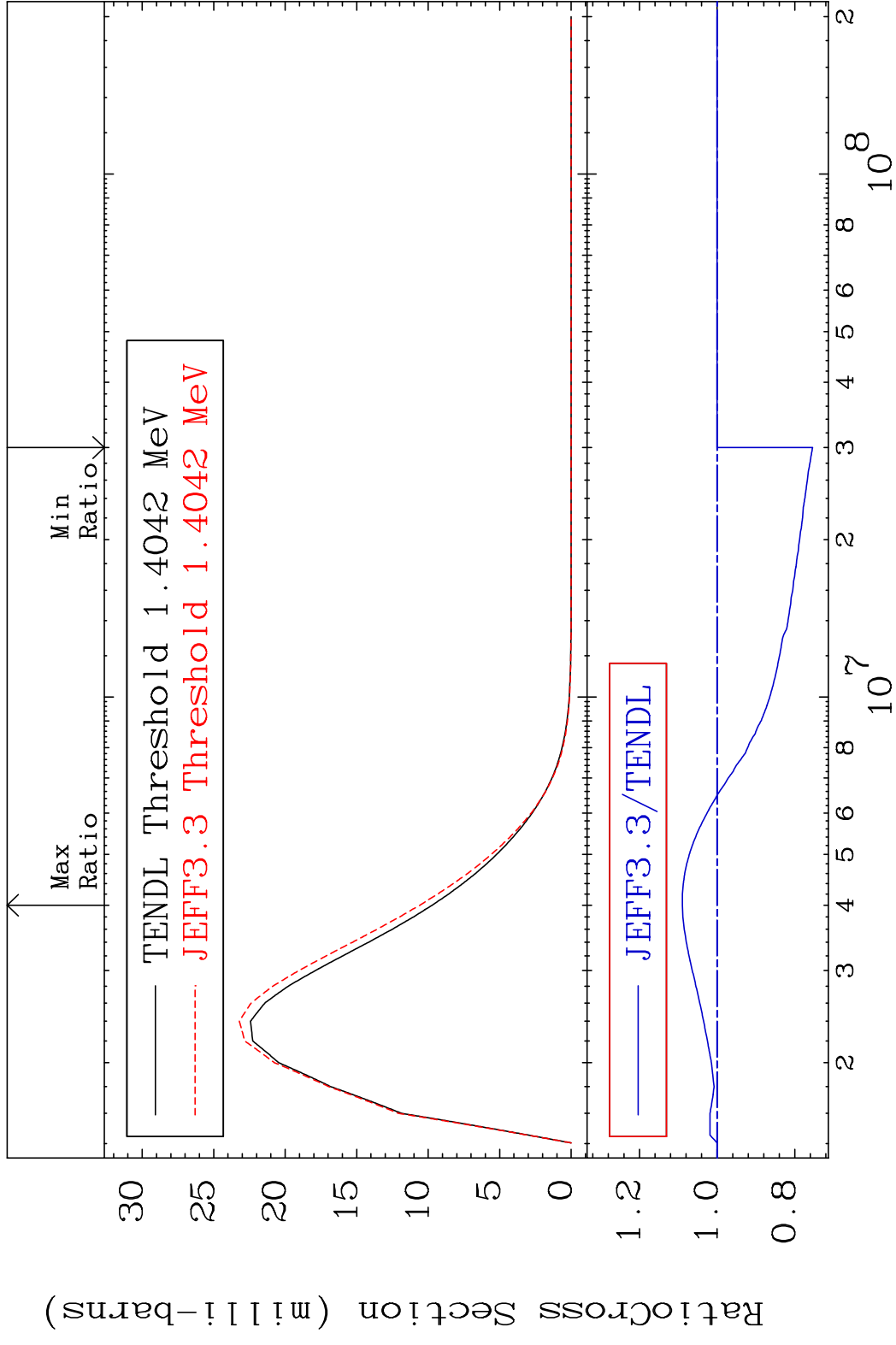
MAT 2728 MT= 68 (n, n') Level 27-Co-60
 Cross Section -24.56 To 9.031 %



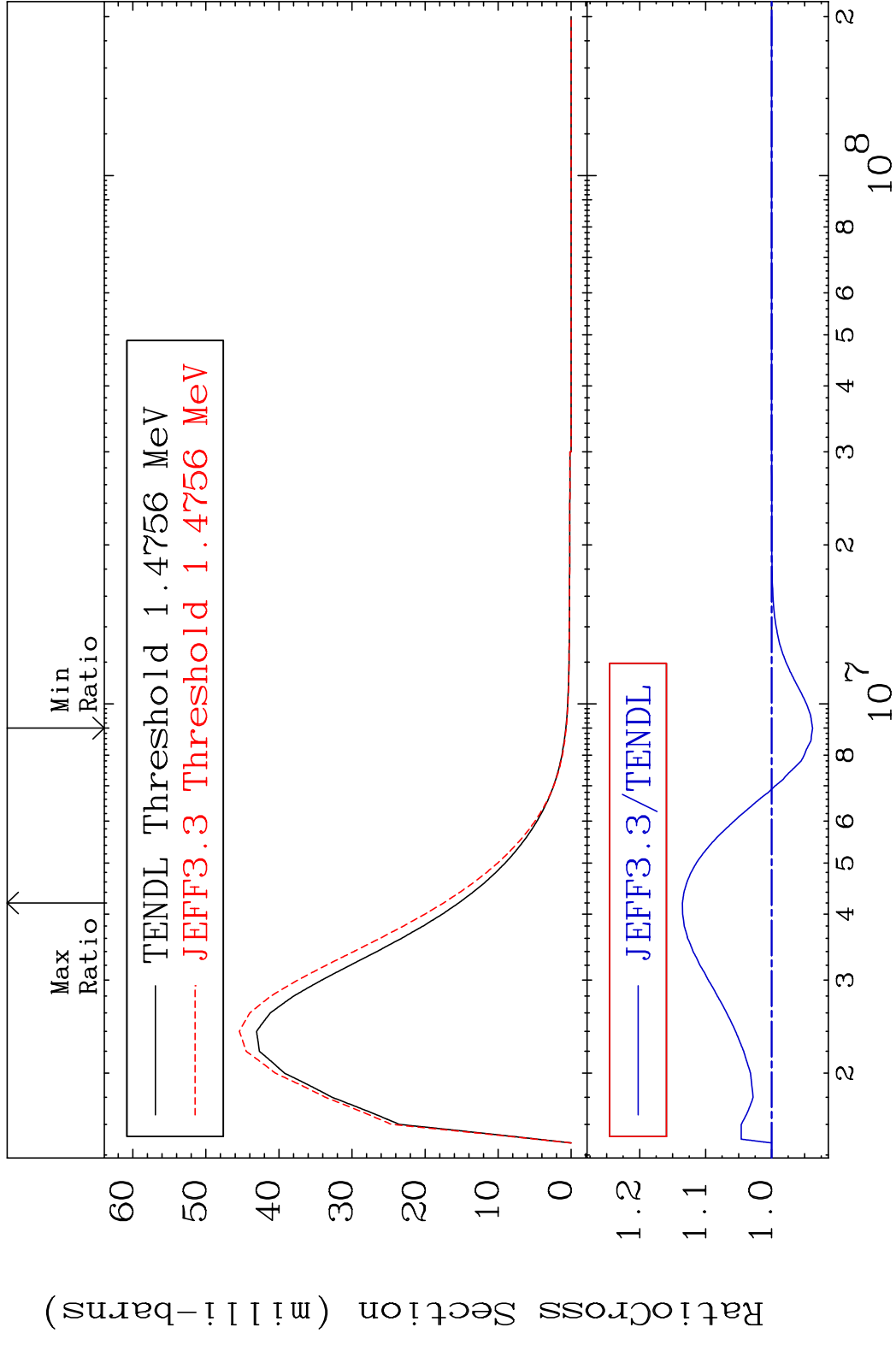
MAT 2728 MT= 69 (n,n') Level 27-Co-60
 Cross Section -7.427 To 27.86 %



MAT 2728 MT= 70 (n, n') Level 27-Co-60
 Cross Section -24.56 To 8.958 %

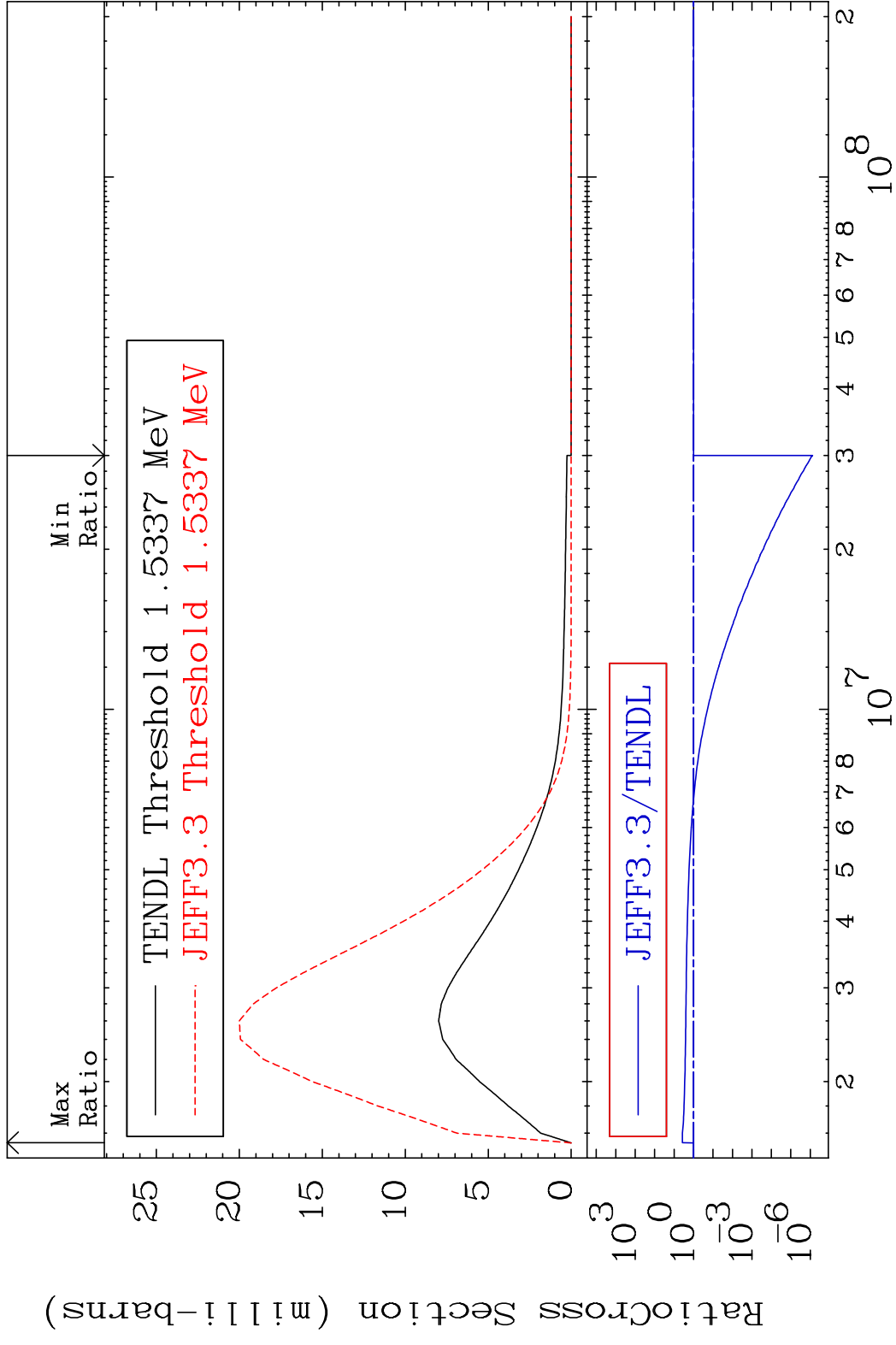


MAT 2728 MT= 71 (n, n') Level 27-Co-60
 Cross Section -6.194 To 13.53 %

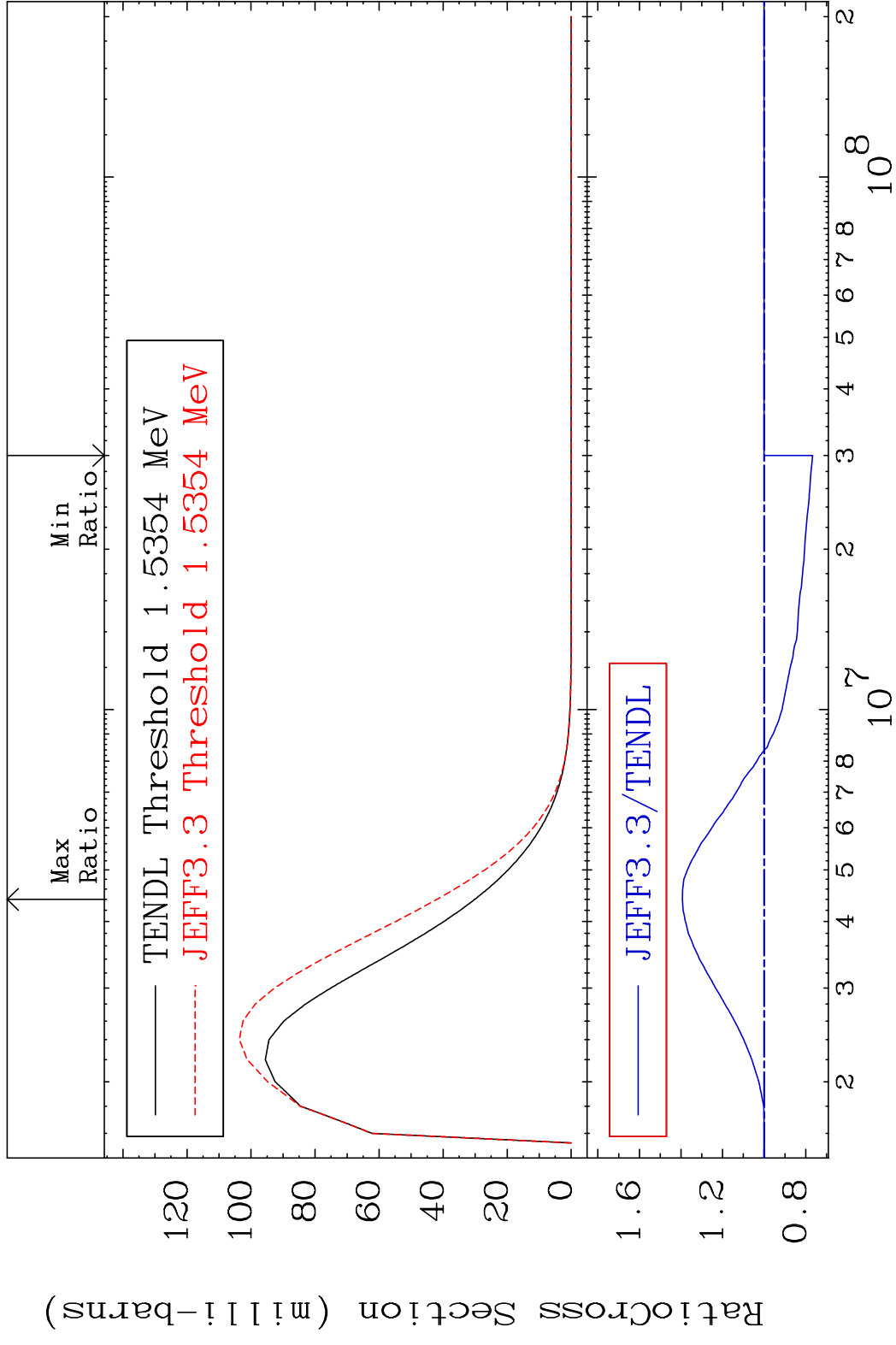


40 Incident Energy (eV) 27-Co-60

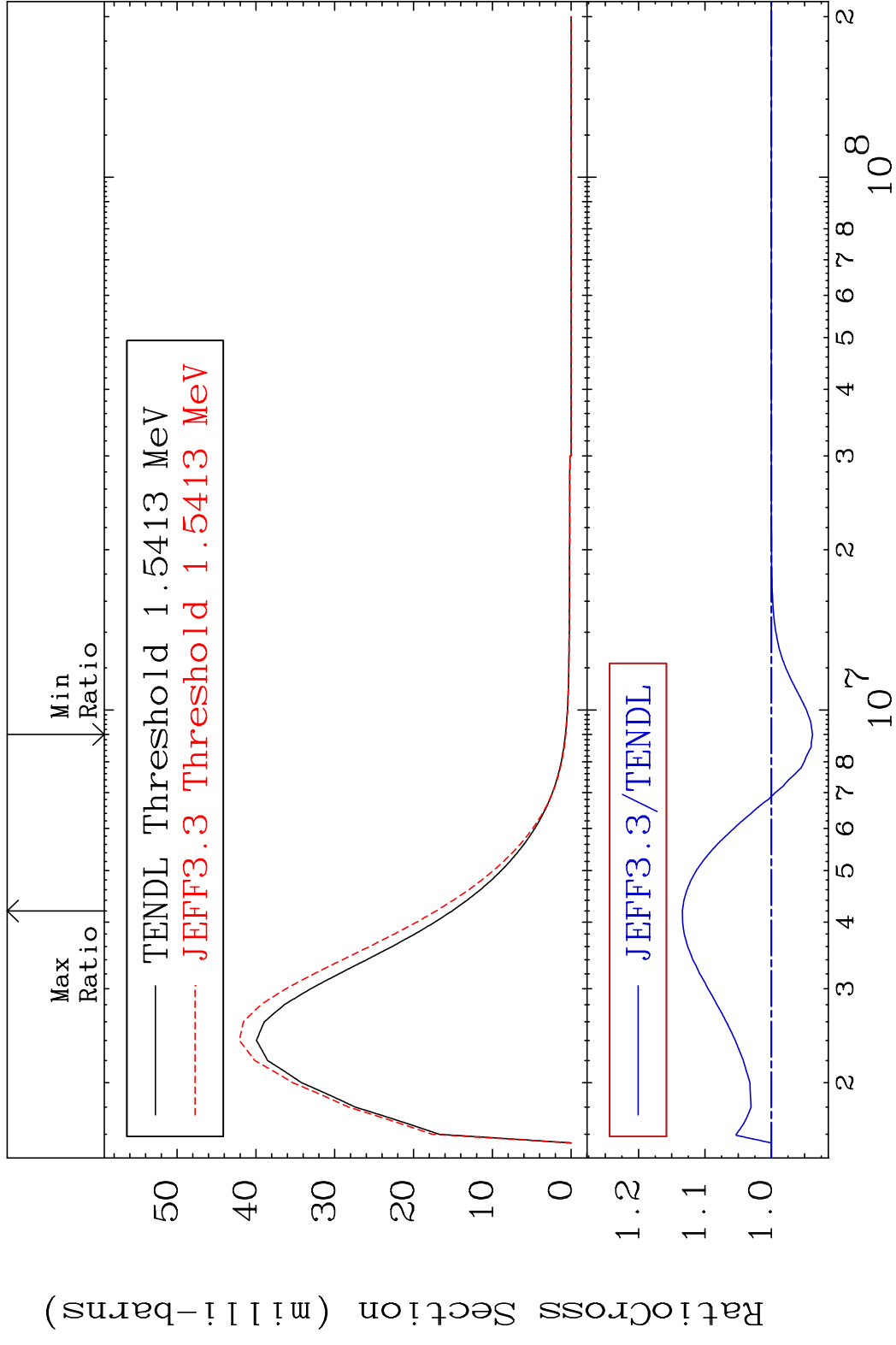
MAT 2728 MT= 72 (n, n') Level 27-Co-60
 Cross Section -100.0 To 275.7 %



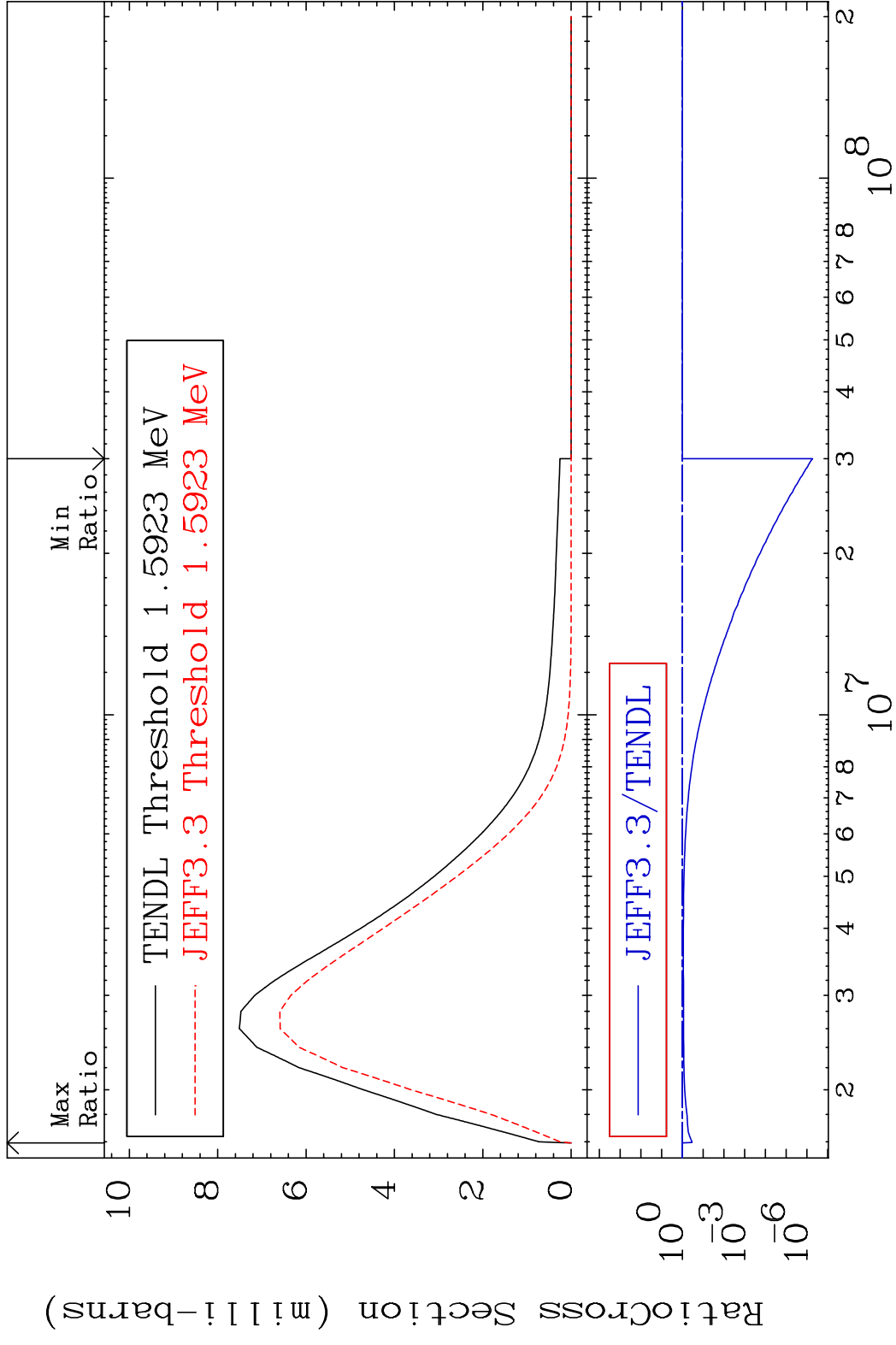
MAT 2728 MT= 73 (n, n') Level 27-Co-60
 Cross Section -23.30 To 39.35 %



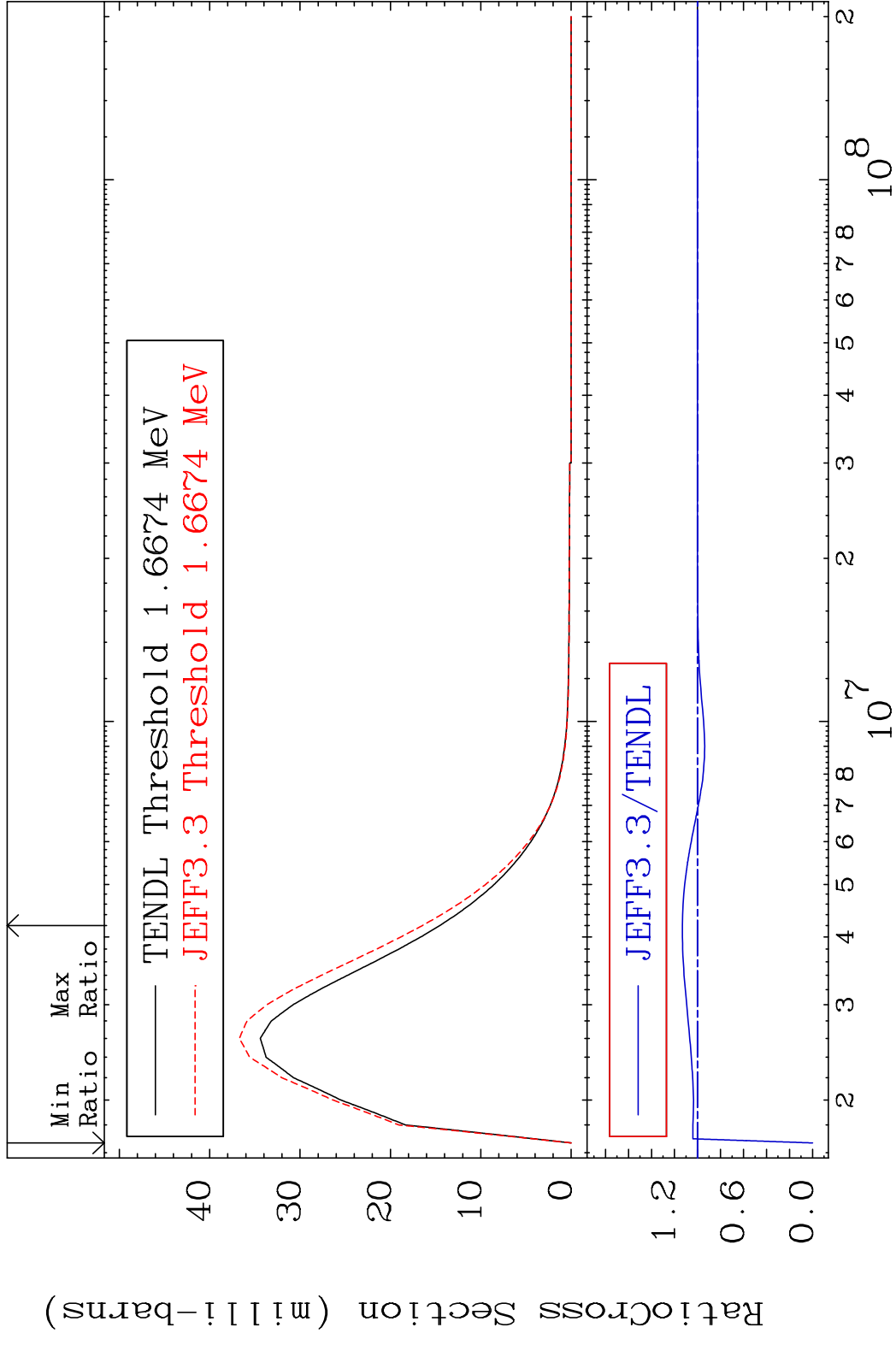
MAT 2728 MT= 74 (n, n') Level 27-Co-60
 Cross Section -6.196 To 13.41 %



MAT 2728 MT= 75 (n, n') Level 27-Co-60
 Cross Section -100.0 To 0.000 %



MAT 2728 MT= 76 (n, n') Level 27-Co-60
 Cross Section -100.0 To 13.18 %

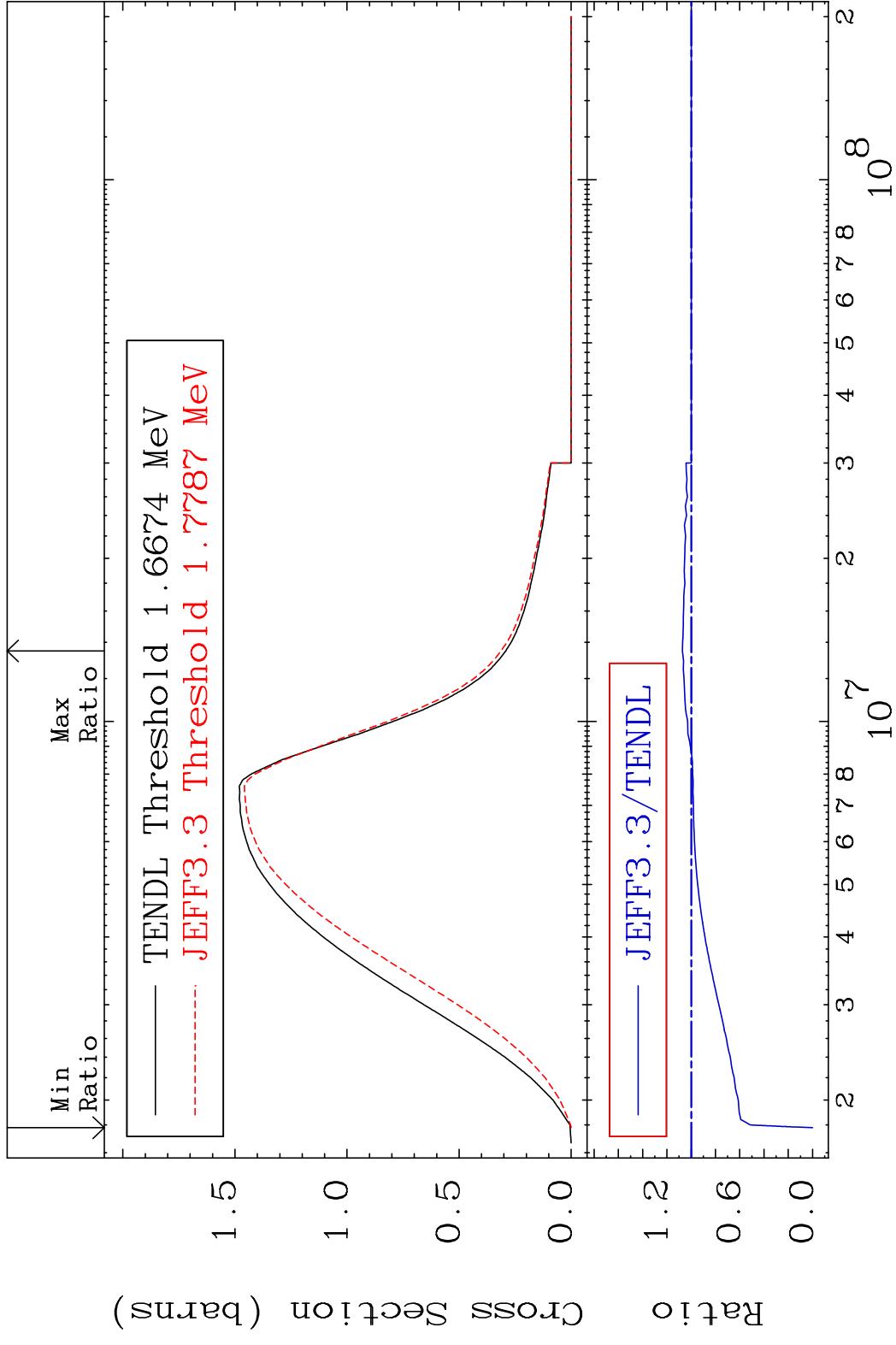


MAT 2728

(n, n') Continuum

²⁷Co-60

Cross Section -100.0 To 7.288 %

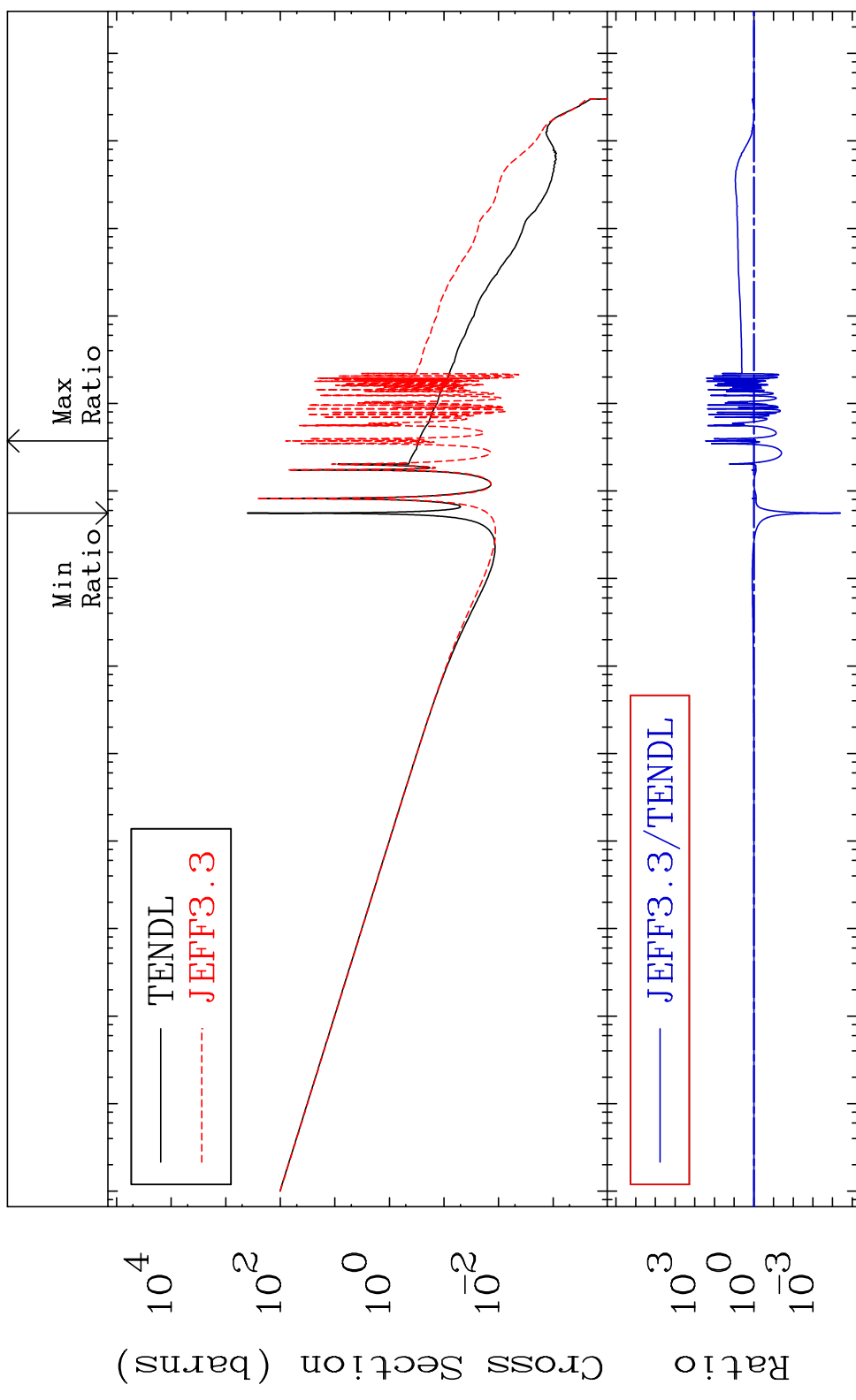


MAT 2728

(n, γ)

27-Co-60

Cross Section -100.0 To 9999. %

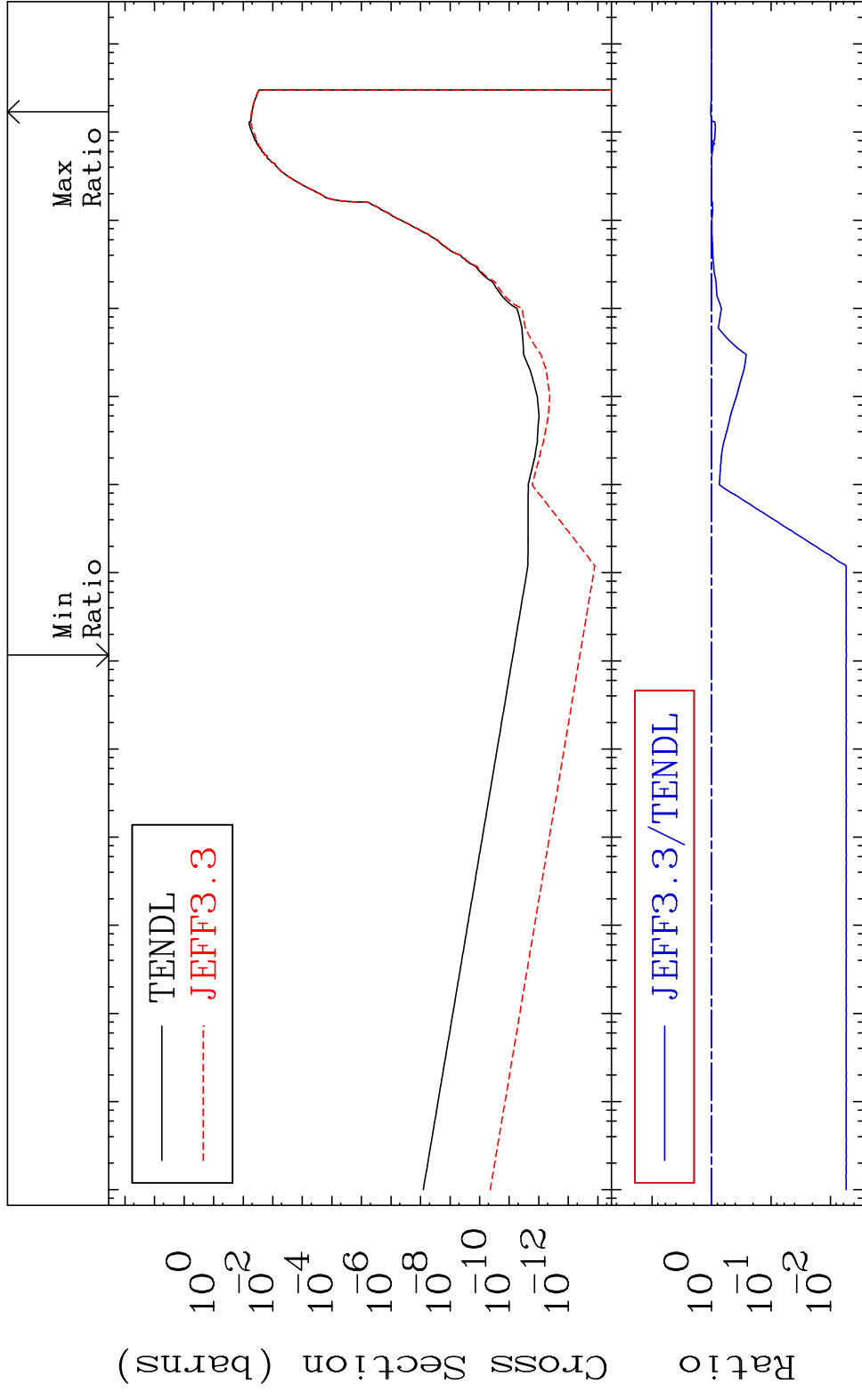


MAT 2728

(n, p)

27-Co-60

Cross Section -99.46 To 3.304 %



48

Incident Energy (eV)

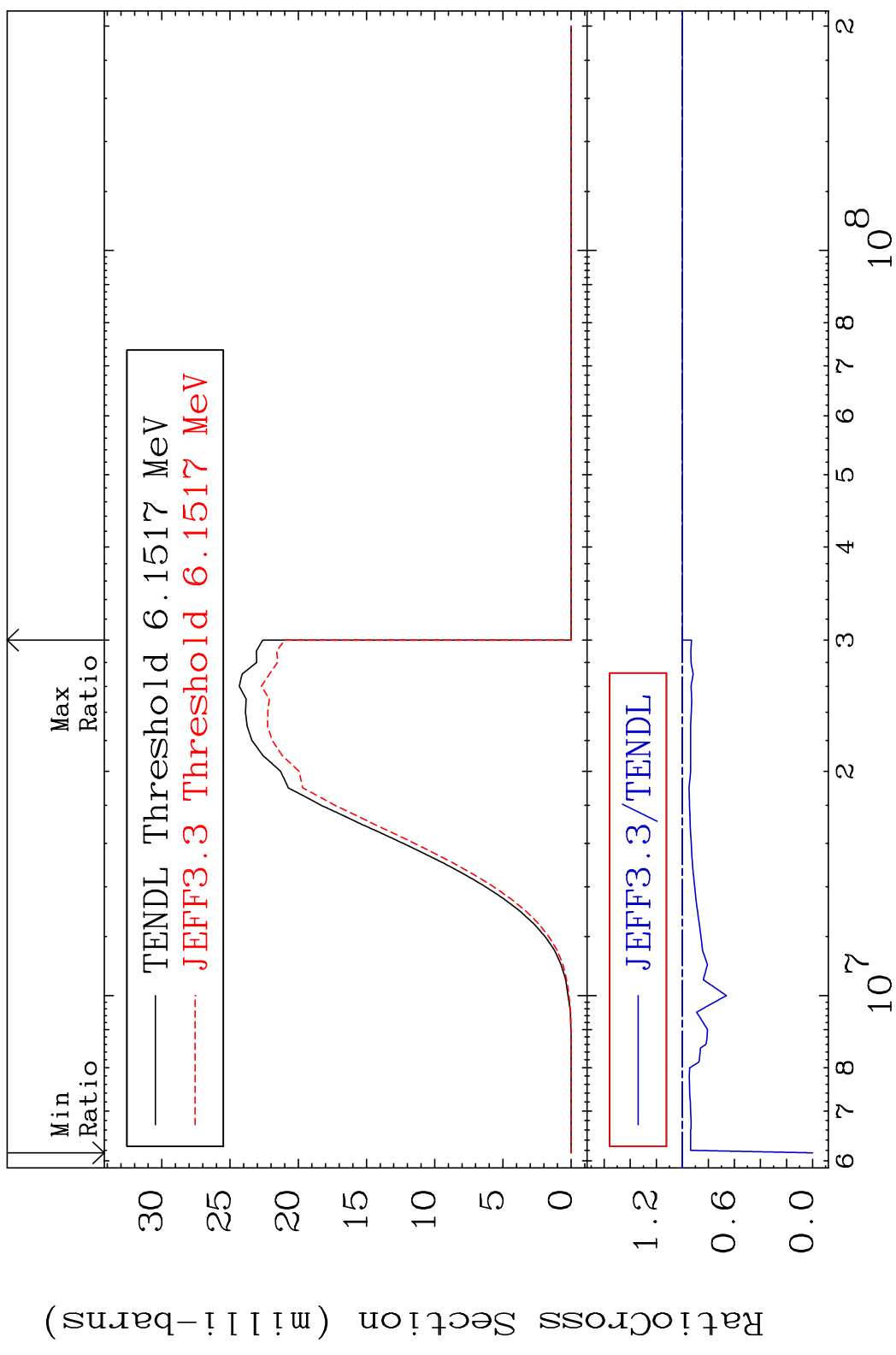
27-Co-60

MAT 2728

(n,d)

27-Co-60

Cross Section -100.0 To 0.000 %



49

Incident Energy (eV)

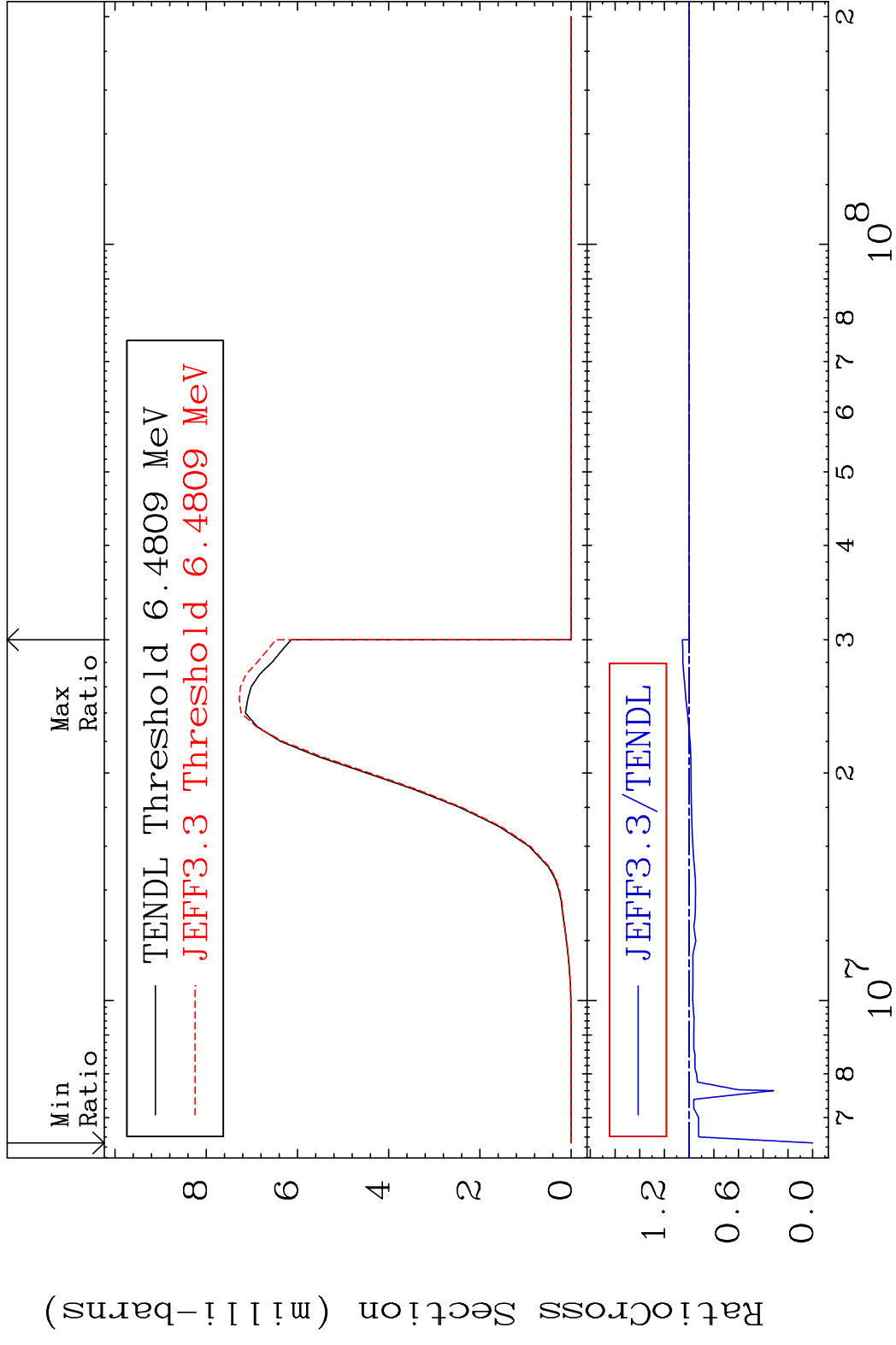
27-Co-60

MAT 2728

(n, t)

27-Co-60

Cross Section -100.0 To 5.456 %



50

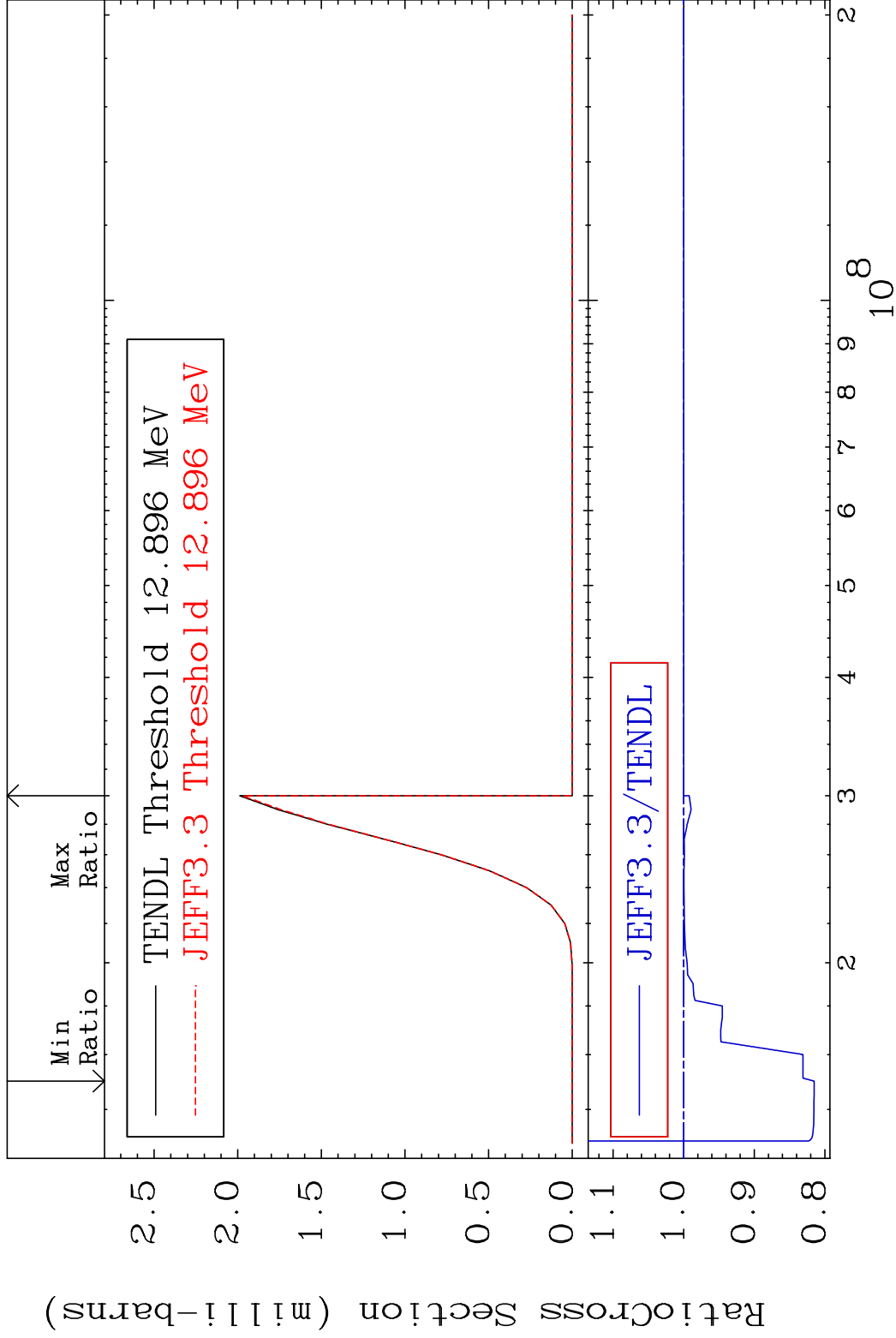
27-Co-60

MAT 2728

(n, He-3)

27-Co-60

Cross Section -18.48 To 0.000 %

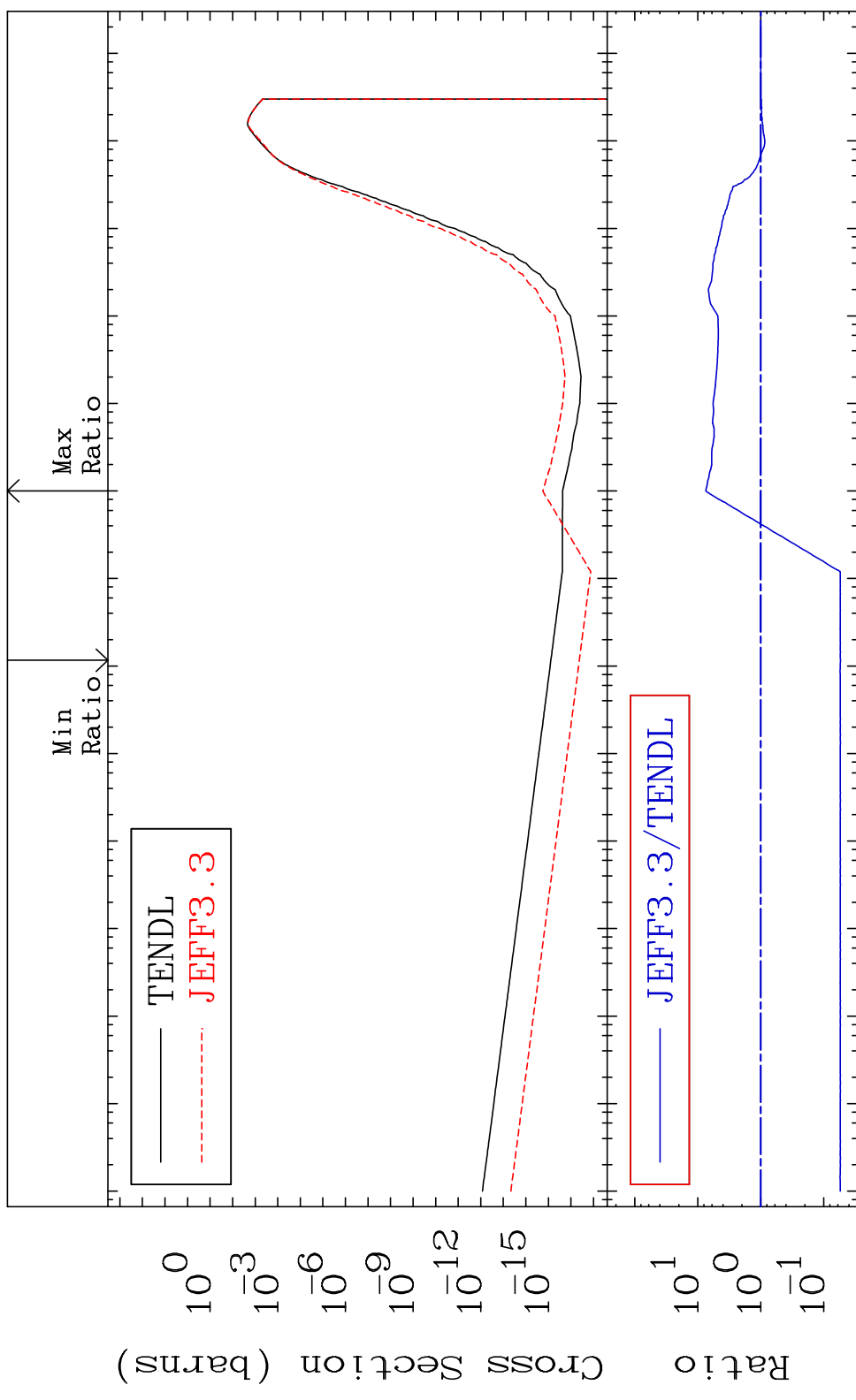


MAT 2728

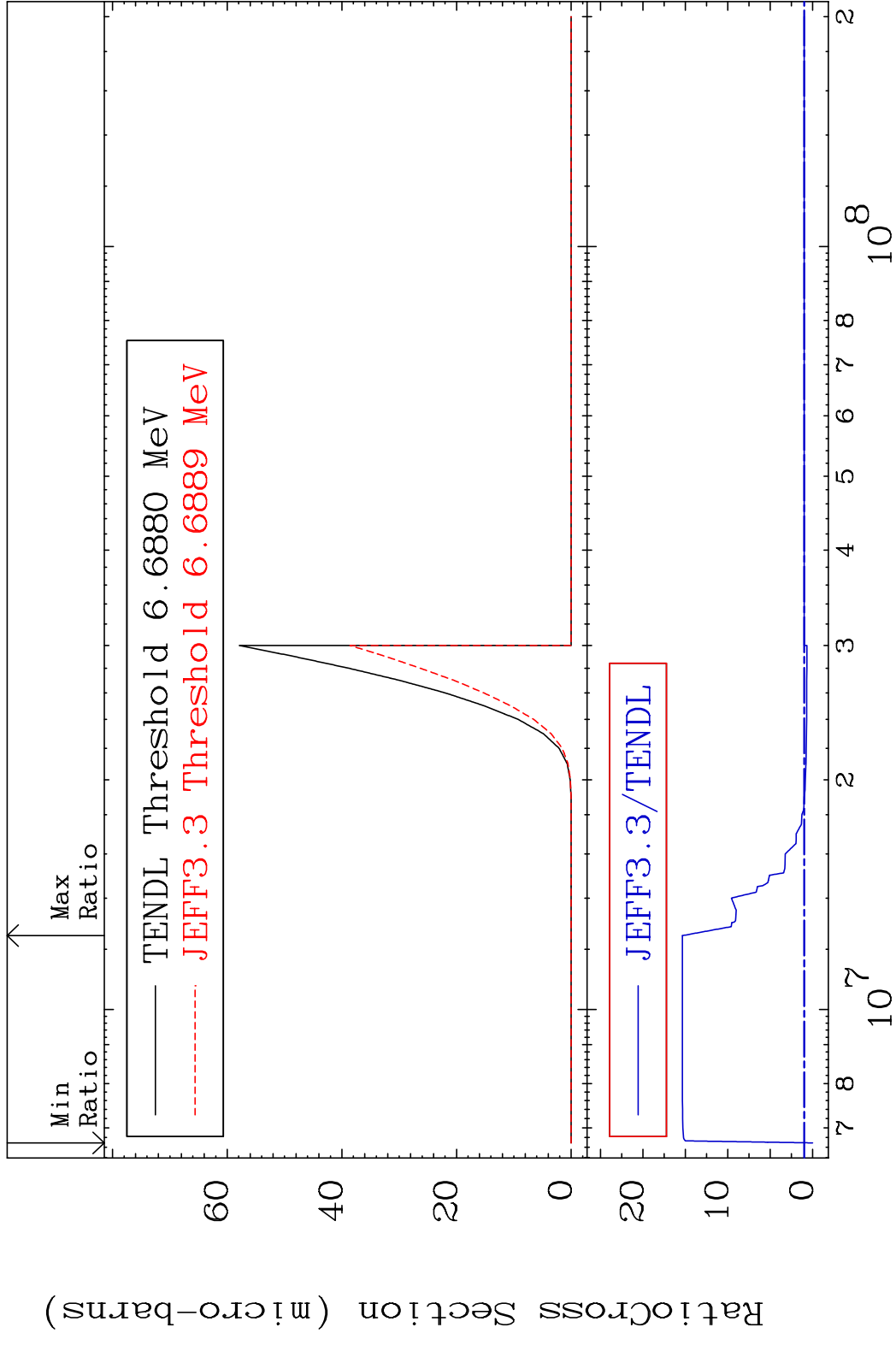
(n, α)

27-Co-60

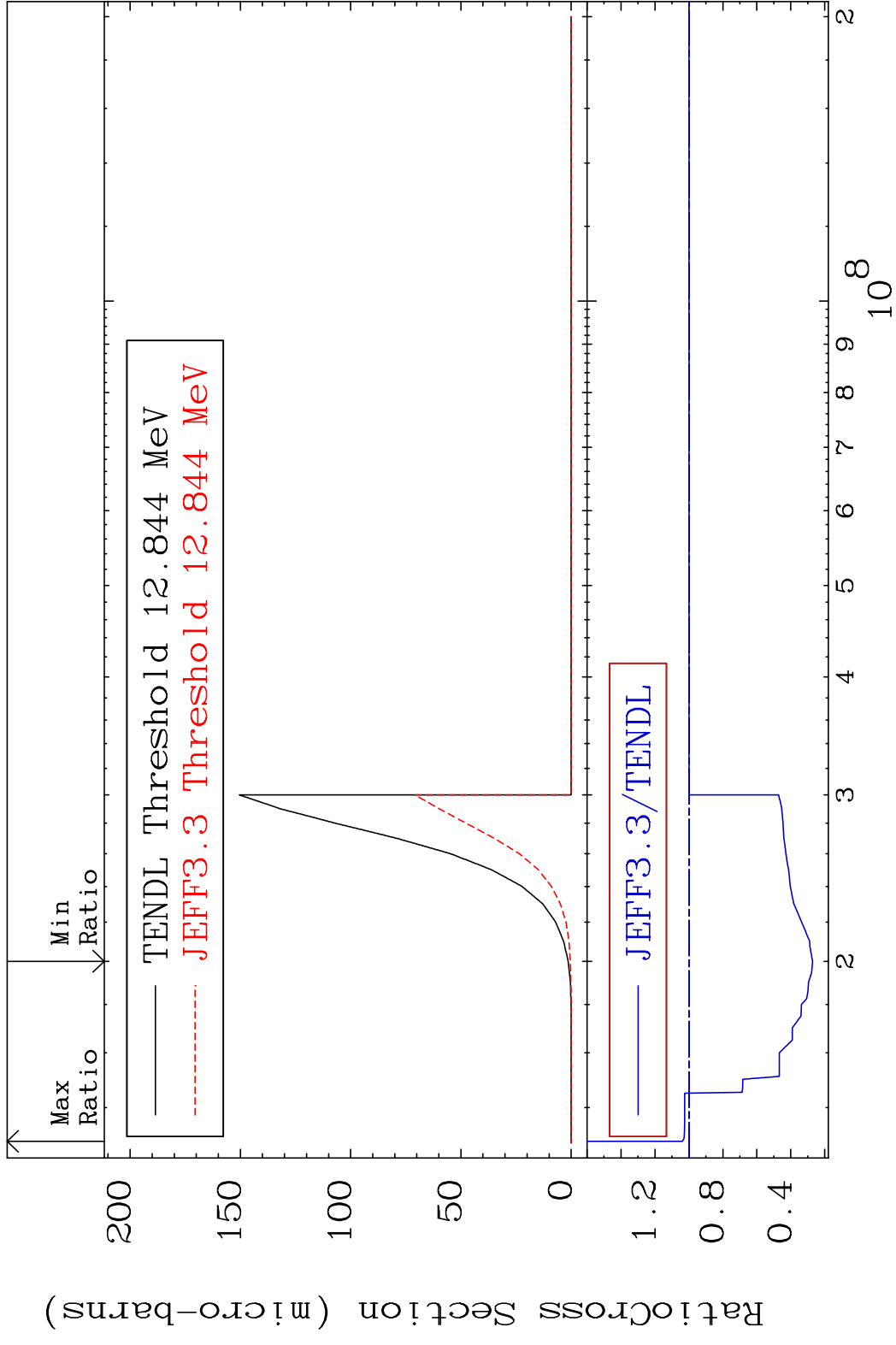
Cross Section -94.54 To 648.8 %



MAT 2728 (n,2α) 27-Co-60
 Cross Section -100.0 To 1435. %



MAT 2728 (n,2p) 27-Co-60
 Cross Section -72.82 To 3.876 %

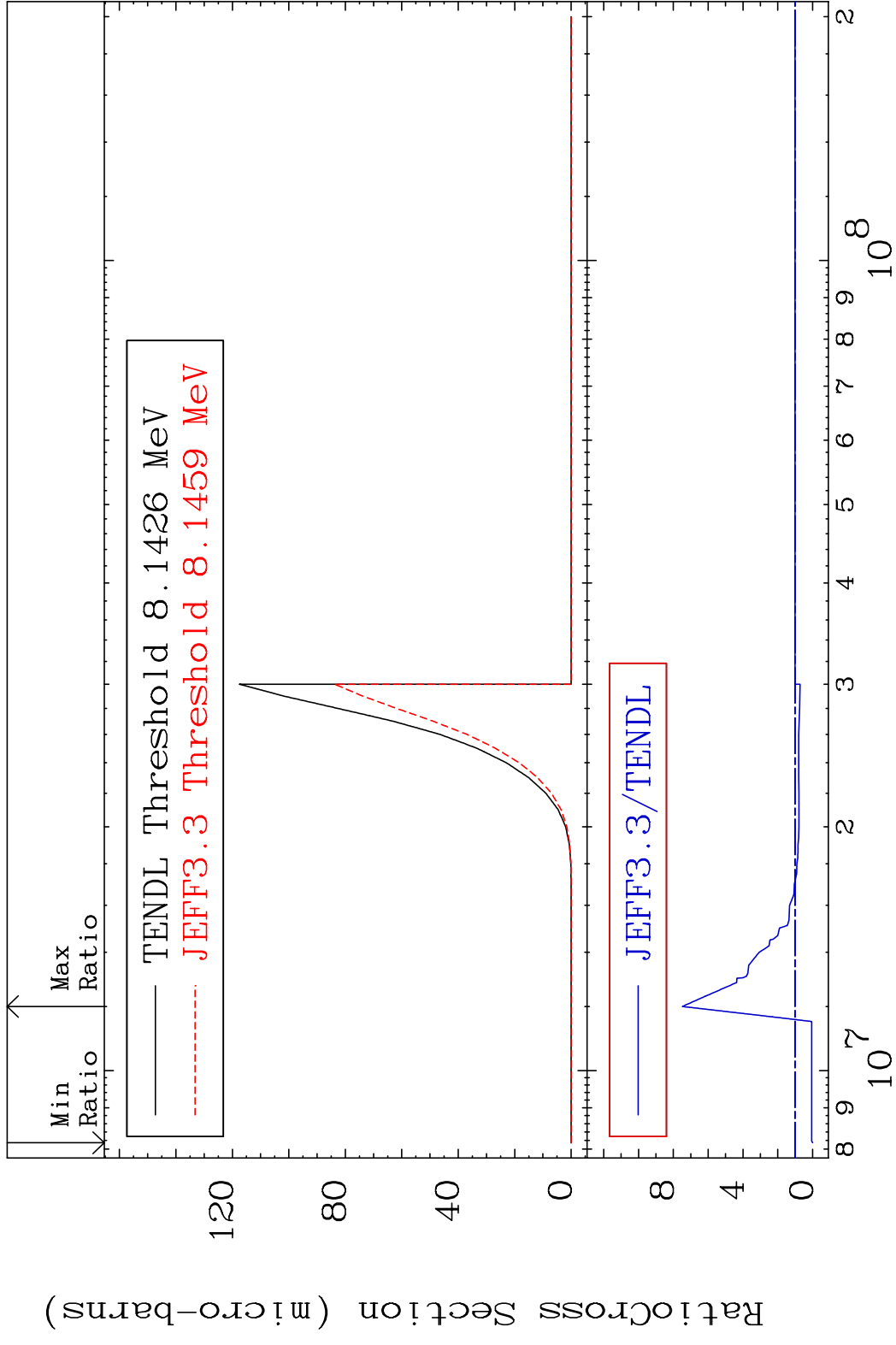


MAT 2728

(n,p) α

27-Co-60

Cross Section -100.0 To 648.1 %

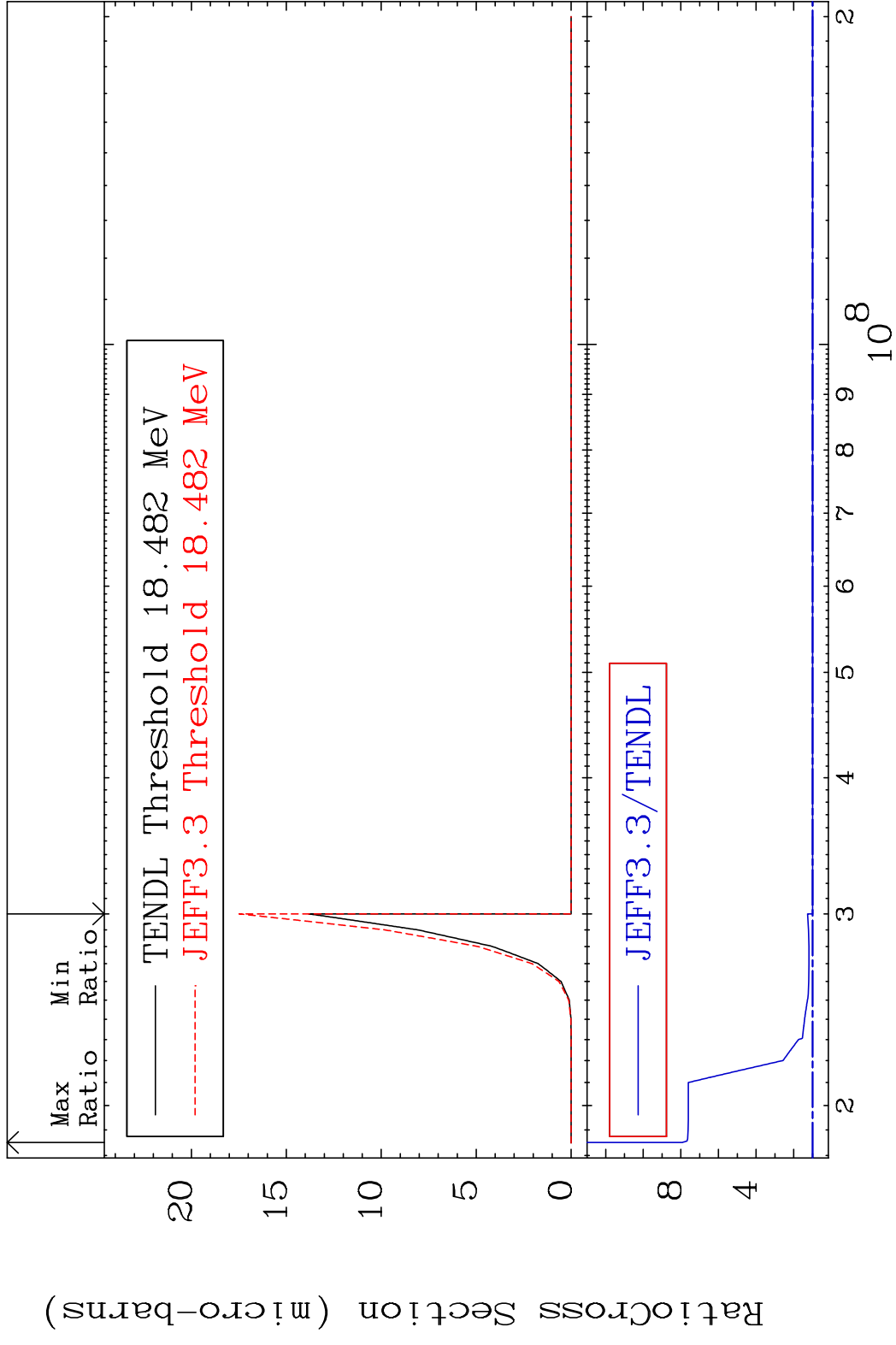


55

Incident Energy (eV)

27-Co-60

MAT 2728 (n,p) d 27-Co-60
 Cross Section 0.000 To 692.2 %

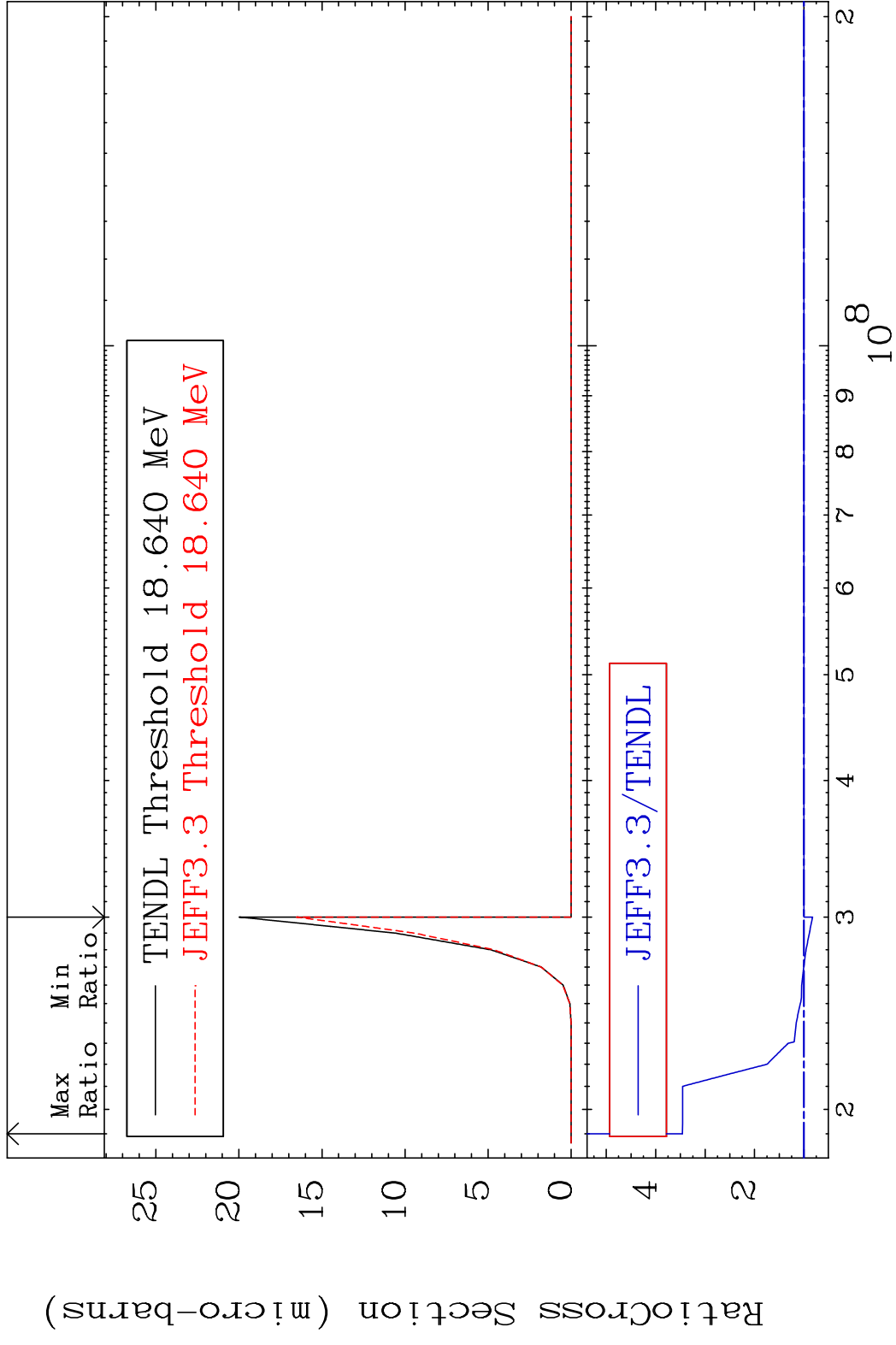


MAT 2728

(n,p) t

27-Co-60

Cross Section -17.32 To 246.1 %



57

Incident Energy (eV)

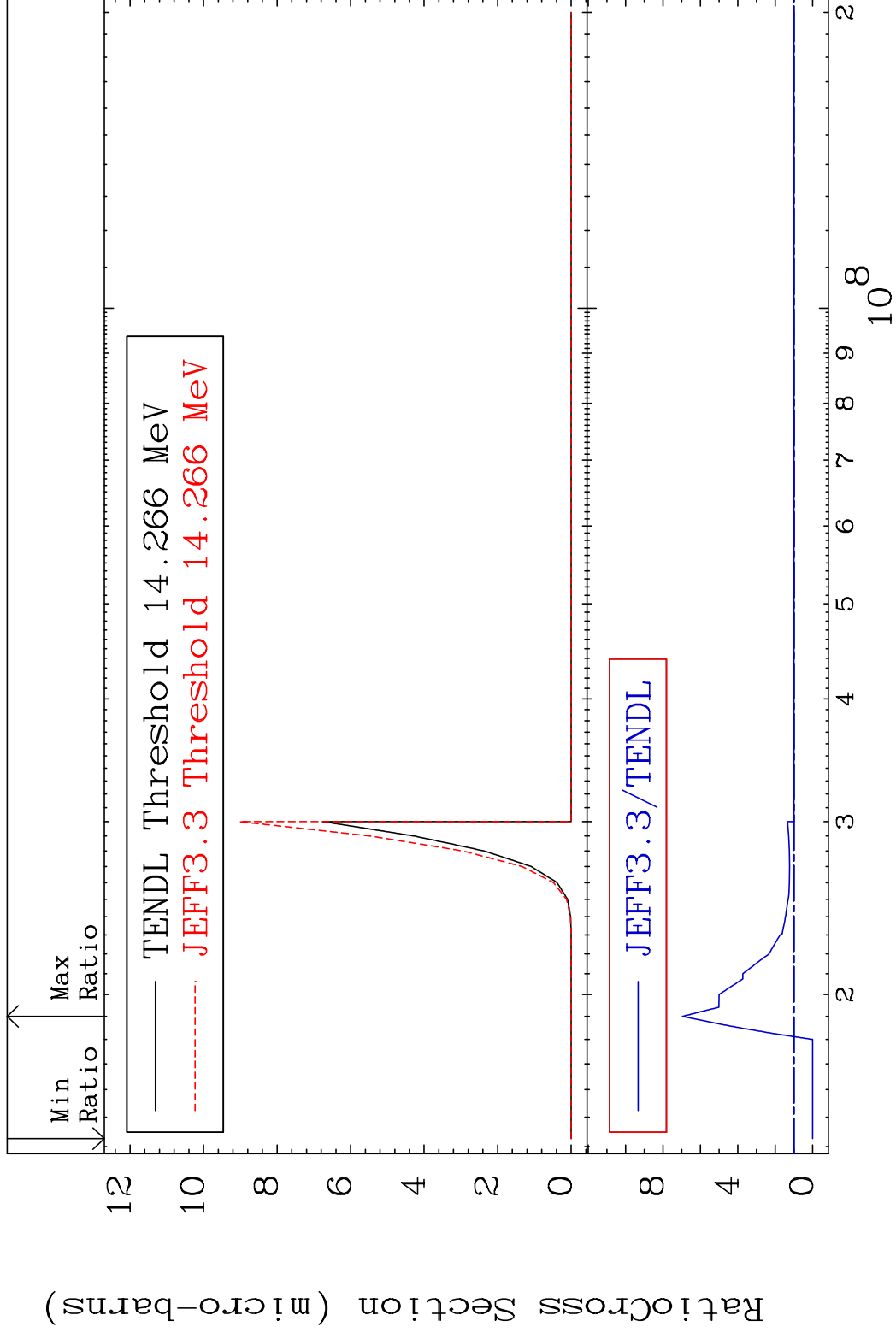
27-Co-60

MAT 2728

(n,d) α

27-Co-60

Cross Section -100.0 To 596.2 %



58

Incident Energy (eV)

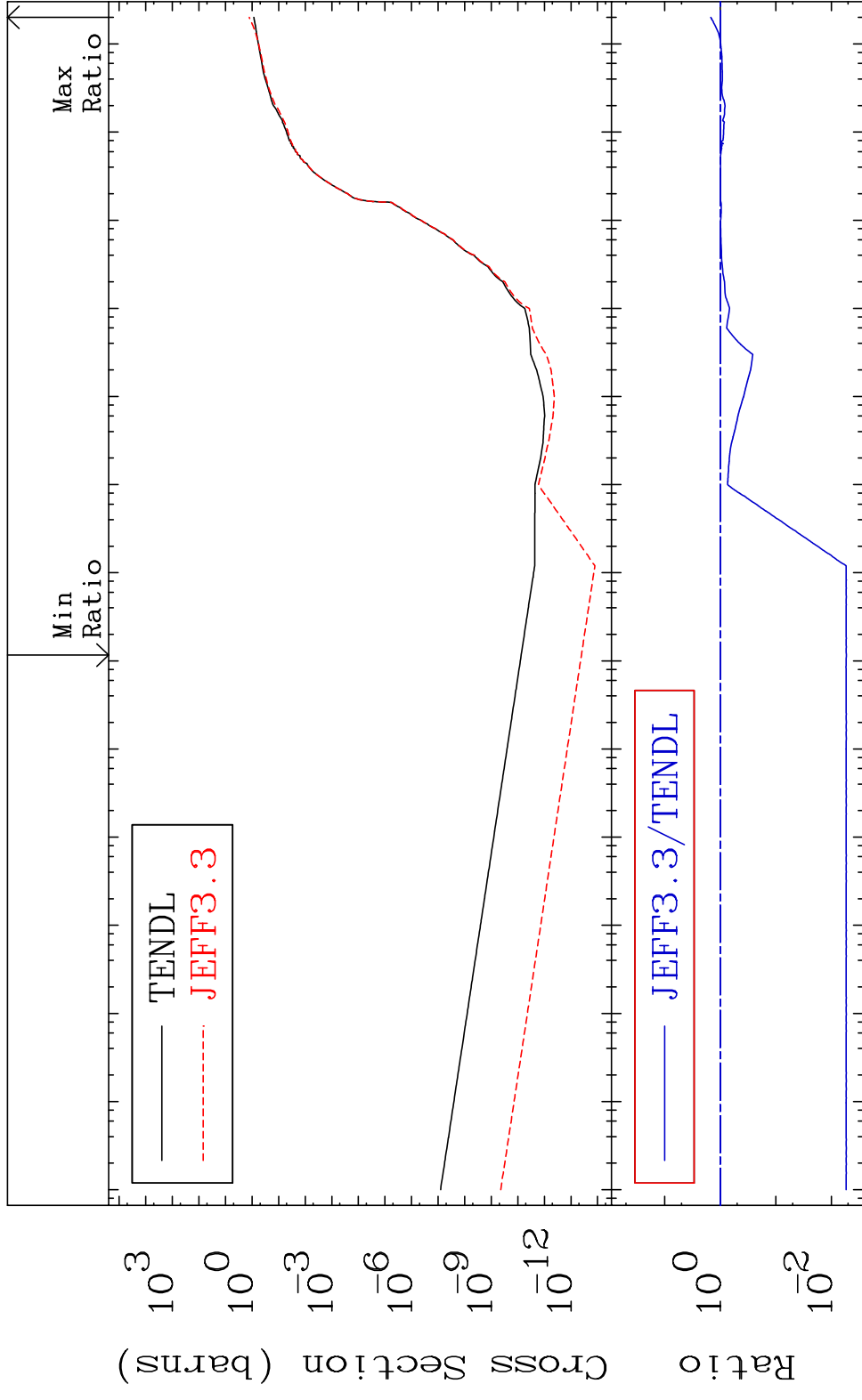
27-Co-60

MAT 2728

Hydrogen Production

27-Co-60

Cross Section -99.46 To 48.72 %

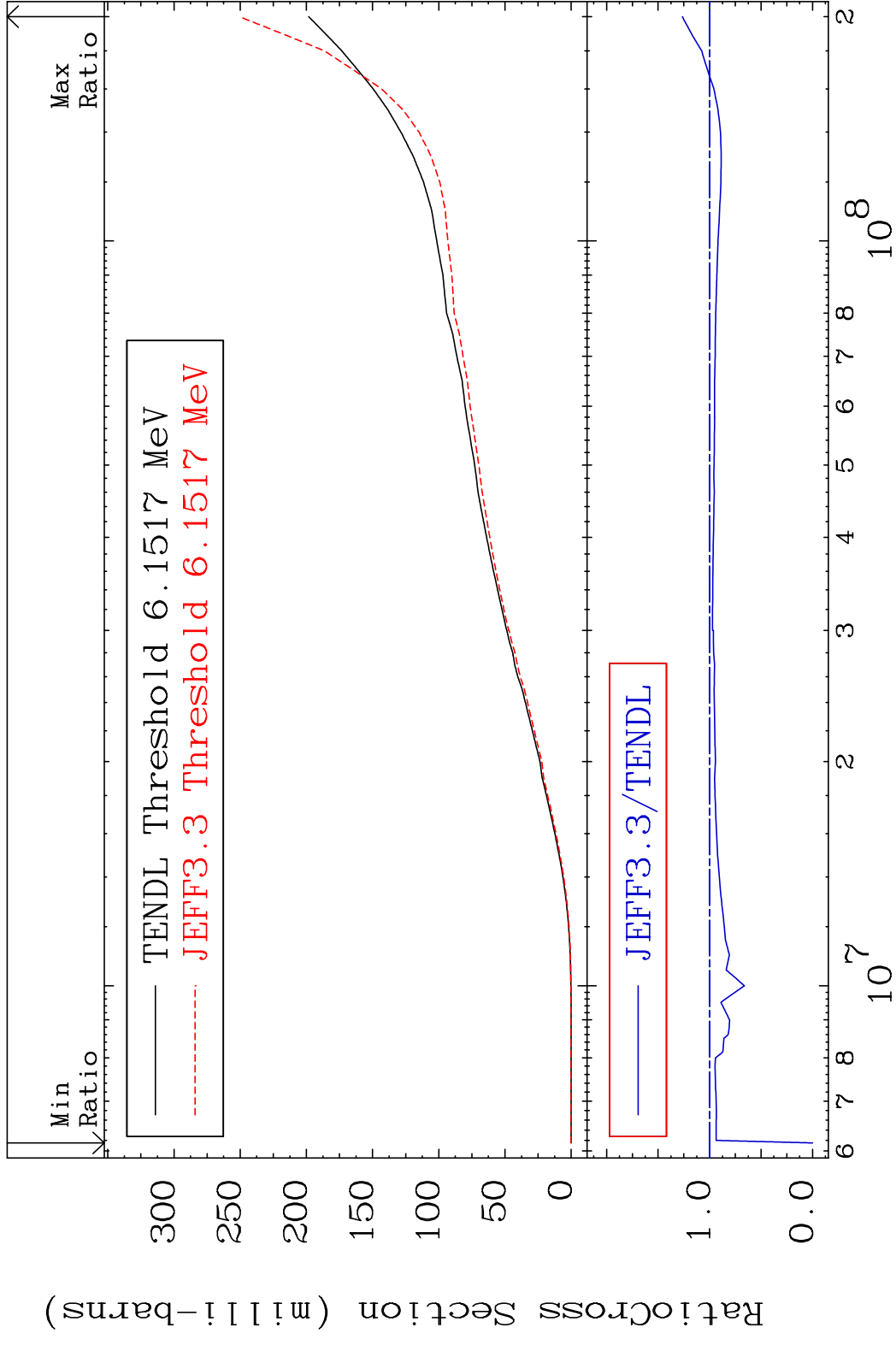


59

Incident Energy (eV)

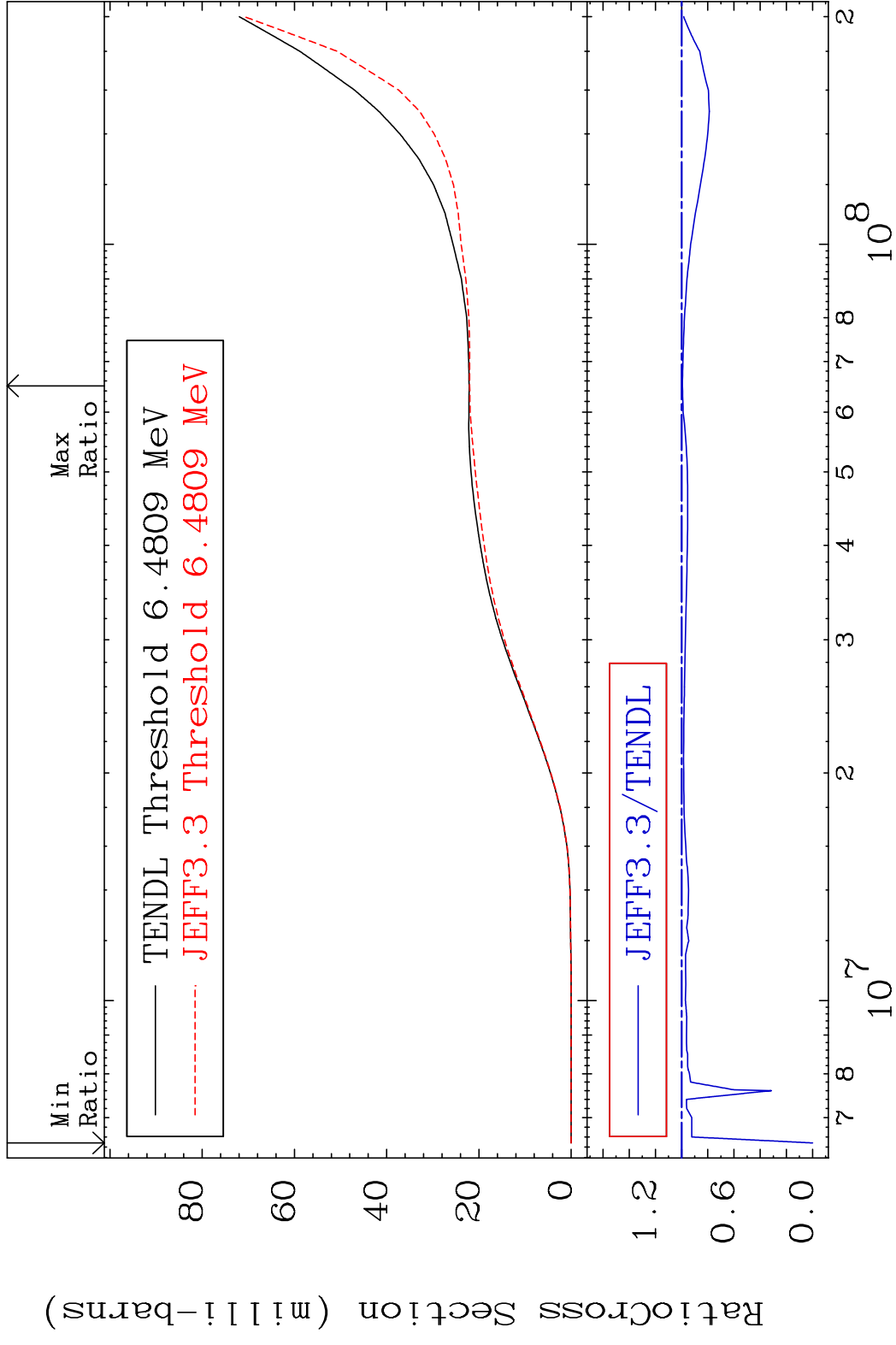
27-Co-60

MAT 2728 Deuterium Production 27-Co-60
 Cross Section -100.0 To 26.45 %



60 Incident Energy (eV) 27-Co-60

MAT 2728 Tritium Production $^{27}\text{Co-60}$
 Cross Section -100.0 To -0.567%

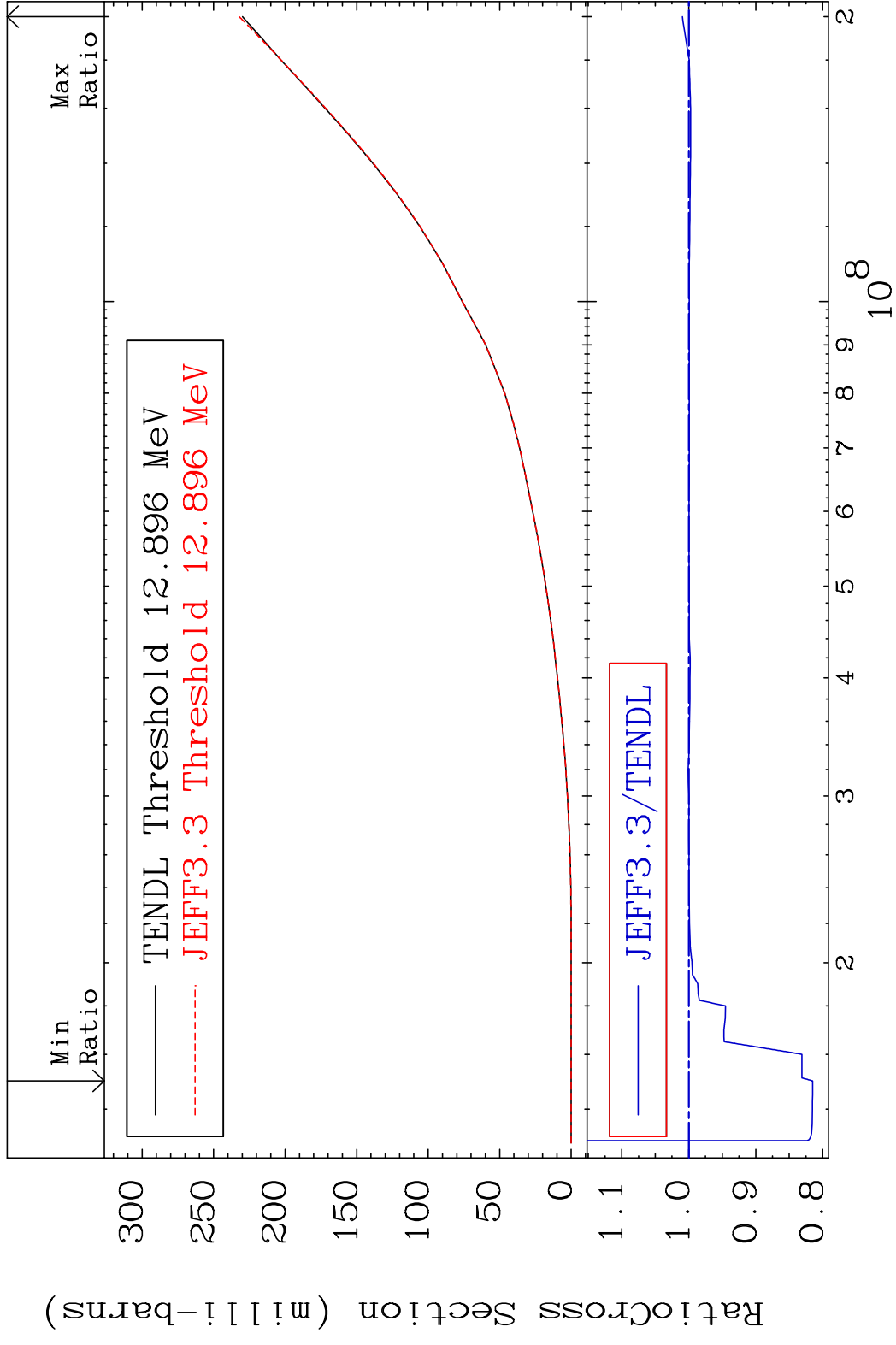


MAT 2728

He-3 Production

27-Co-60

Cross Section -18.48 To 0.954 %

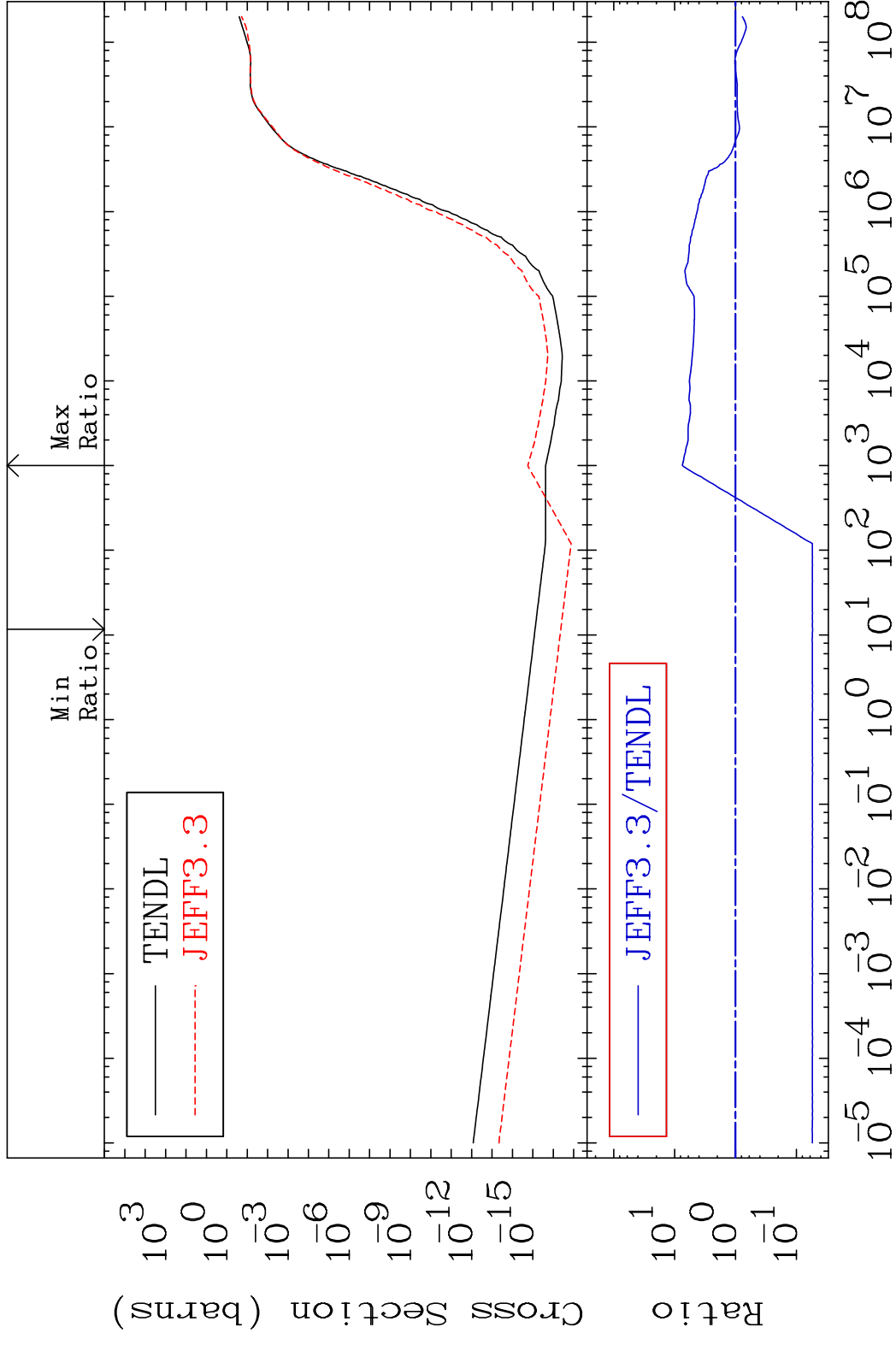


MAT 2728

He-4 Production

27-Co-60

Cross Section -94.54 To 648.8 %

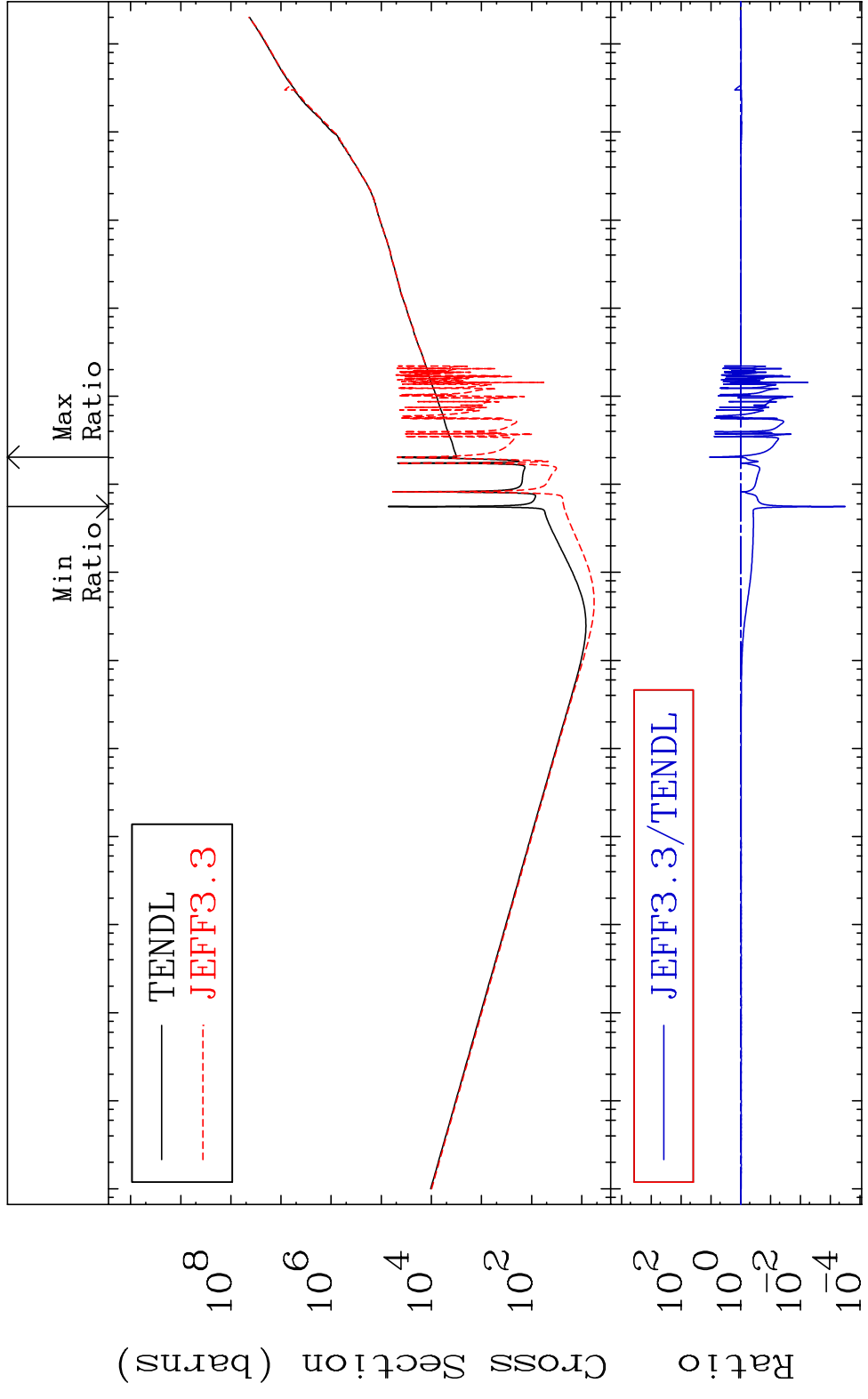


63

Incident Energy (eV)

27-Co-60

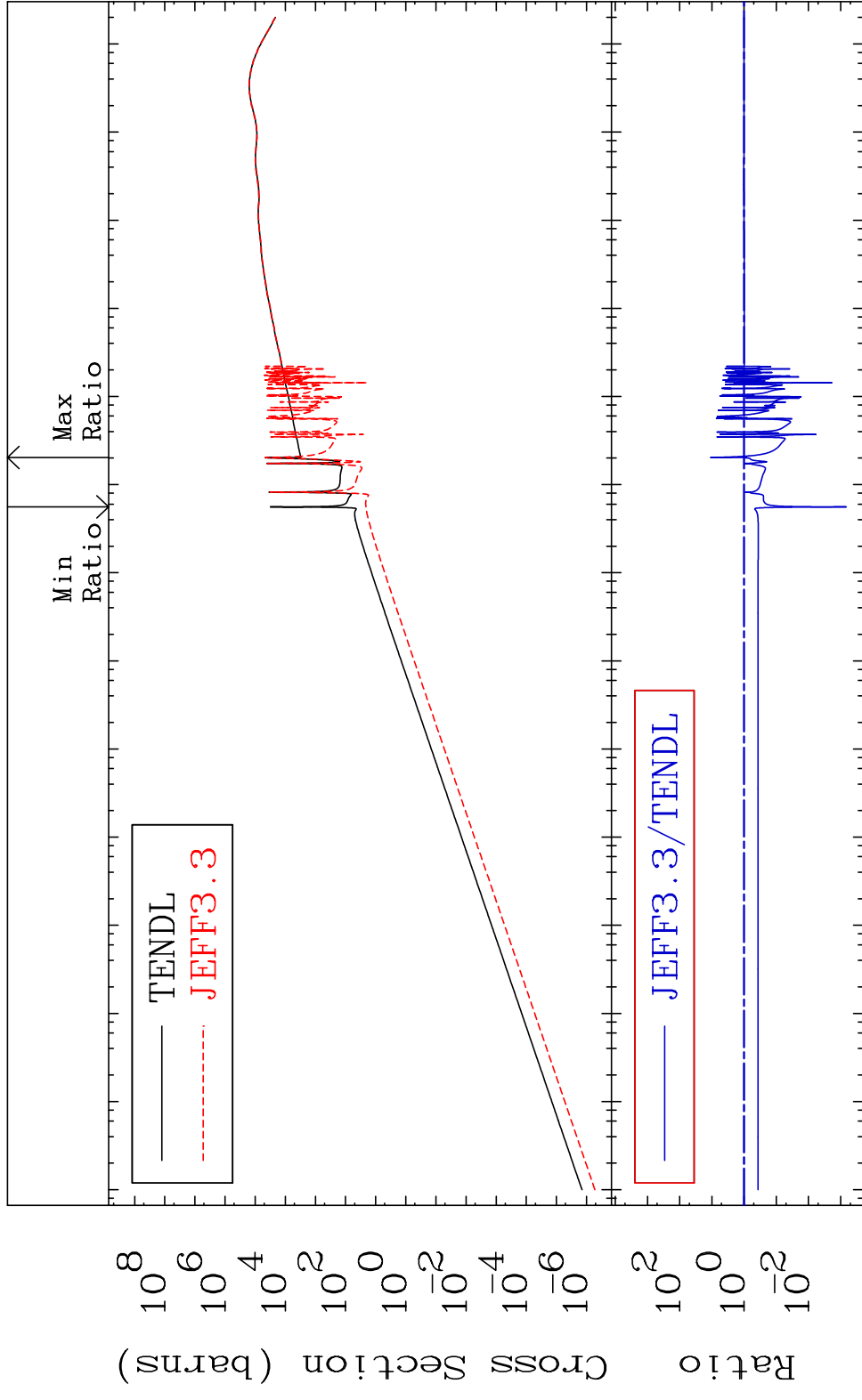
MAT 2728 Kerma total (eV-barns) 27-Co-60
 Cross Section -99.97 To 993.5 %



MAT 2728

Kerma elastic
Cross Section

27-Co-60
-99.93 To 985.1 %



Ratio
Cross Section (barns)

10⁸
10⁶
10⁴
10²
10⁰
10⁻²
10⁻⁴
10⁻⁶
10⁻⁸

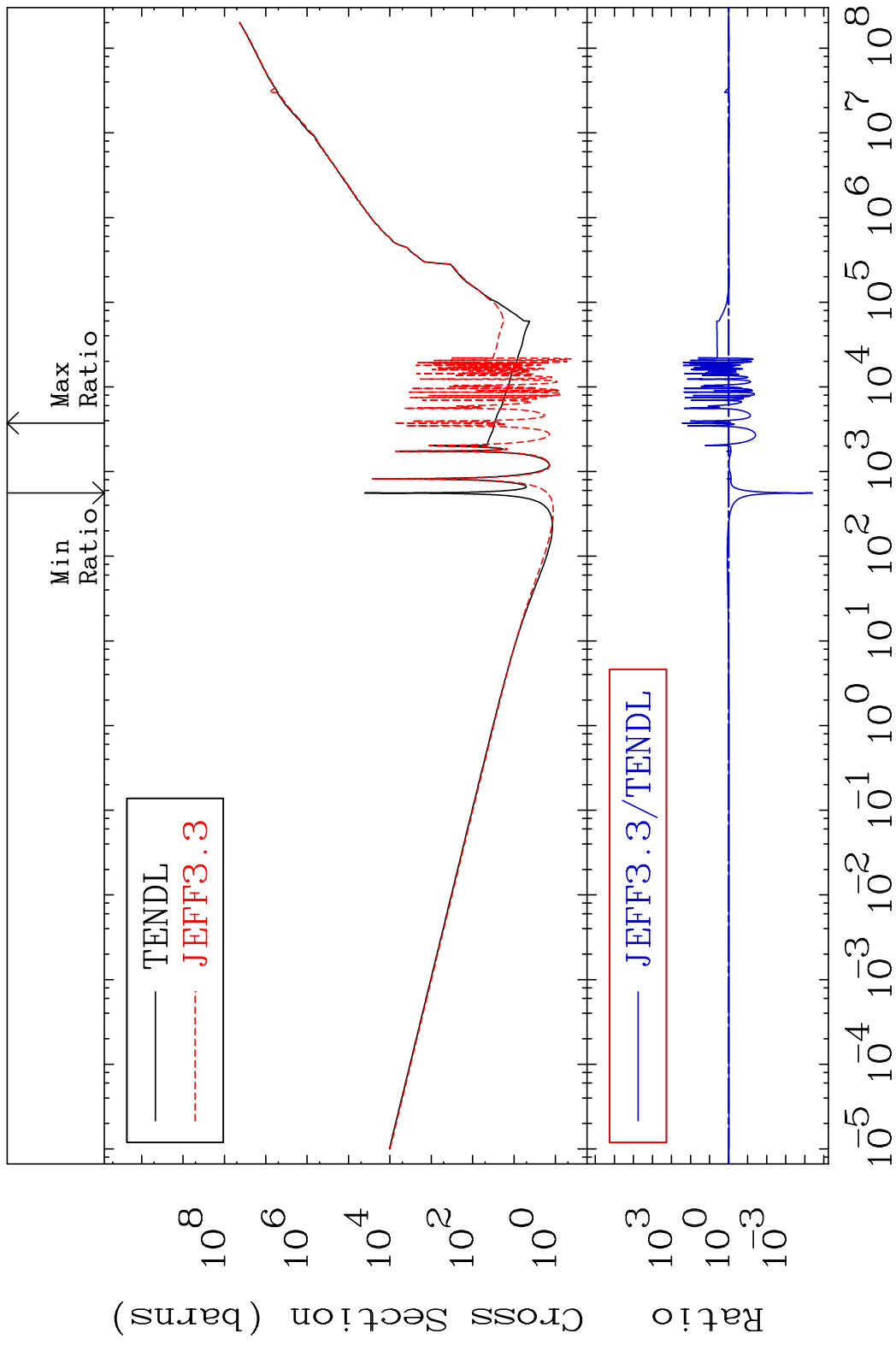
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

65

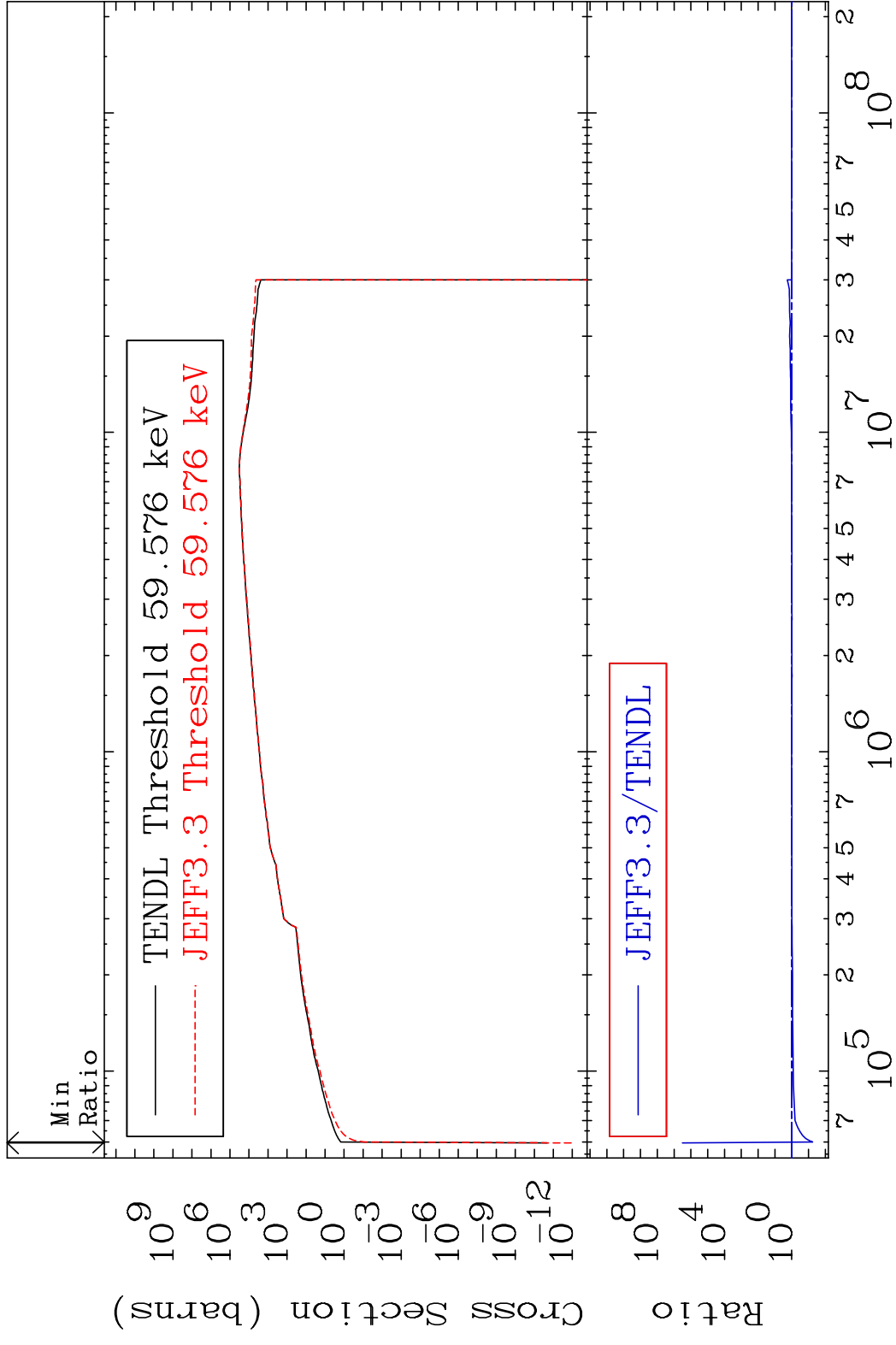
Incident Energy (eV)

27-Co-60

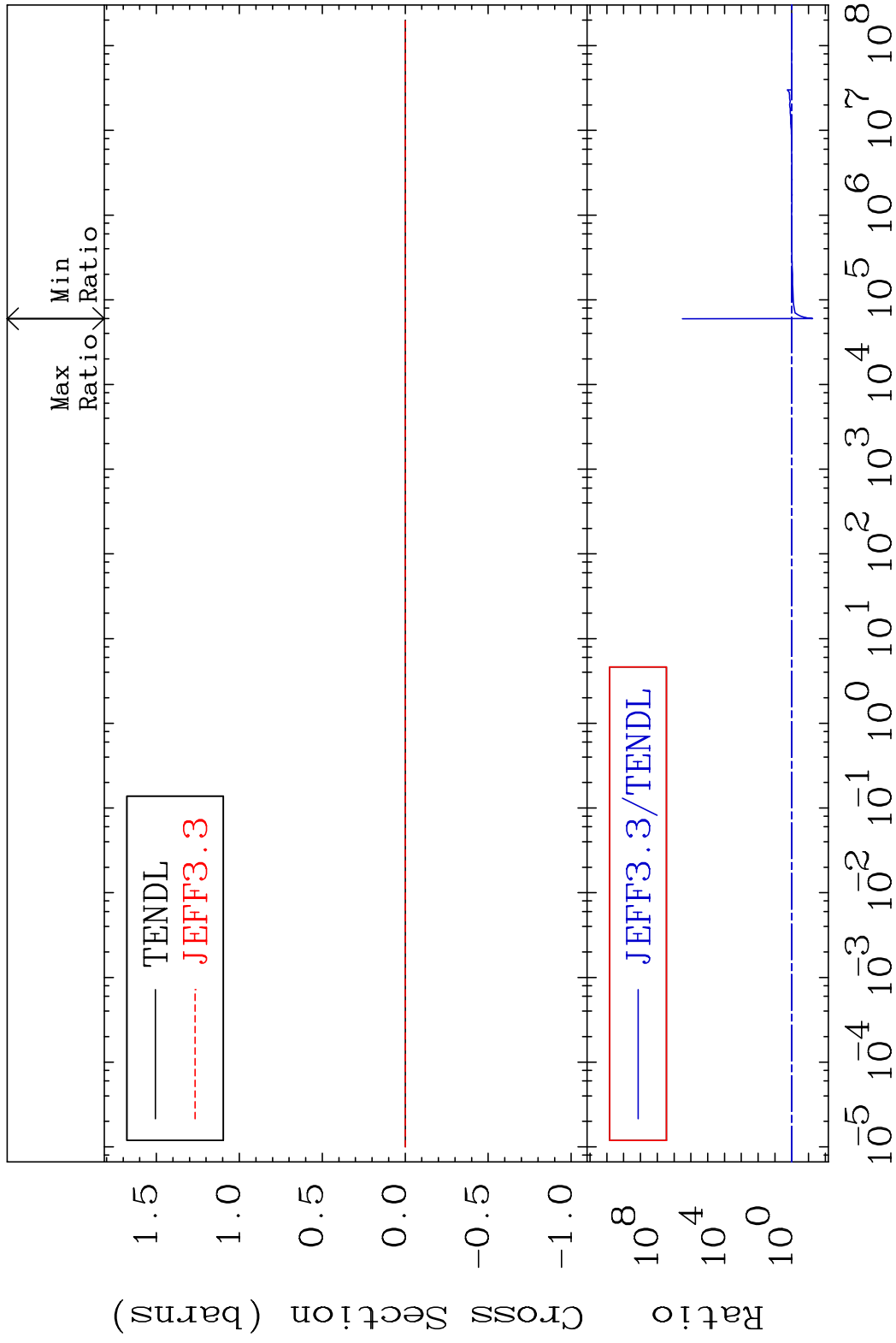
MAT 2728 Kerma non-elastic (all but mt2) 27-Co-60
 Cross Section -100.0 To 9999. %



MAT 2728 Kerma inelastic (mt51-91) 27-Co-60
 Cross Section -94.28 To 9999. %

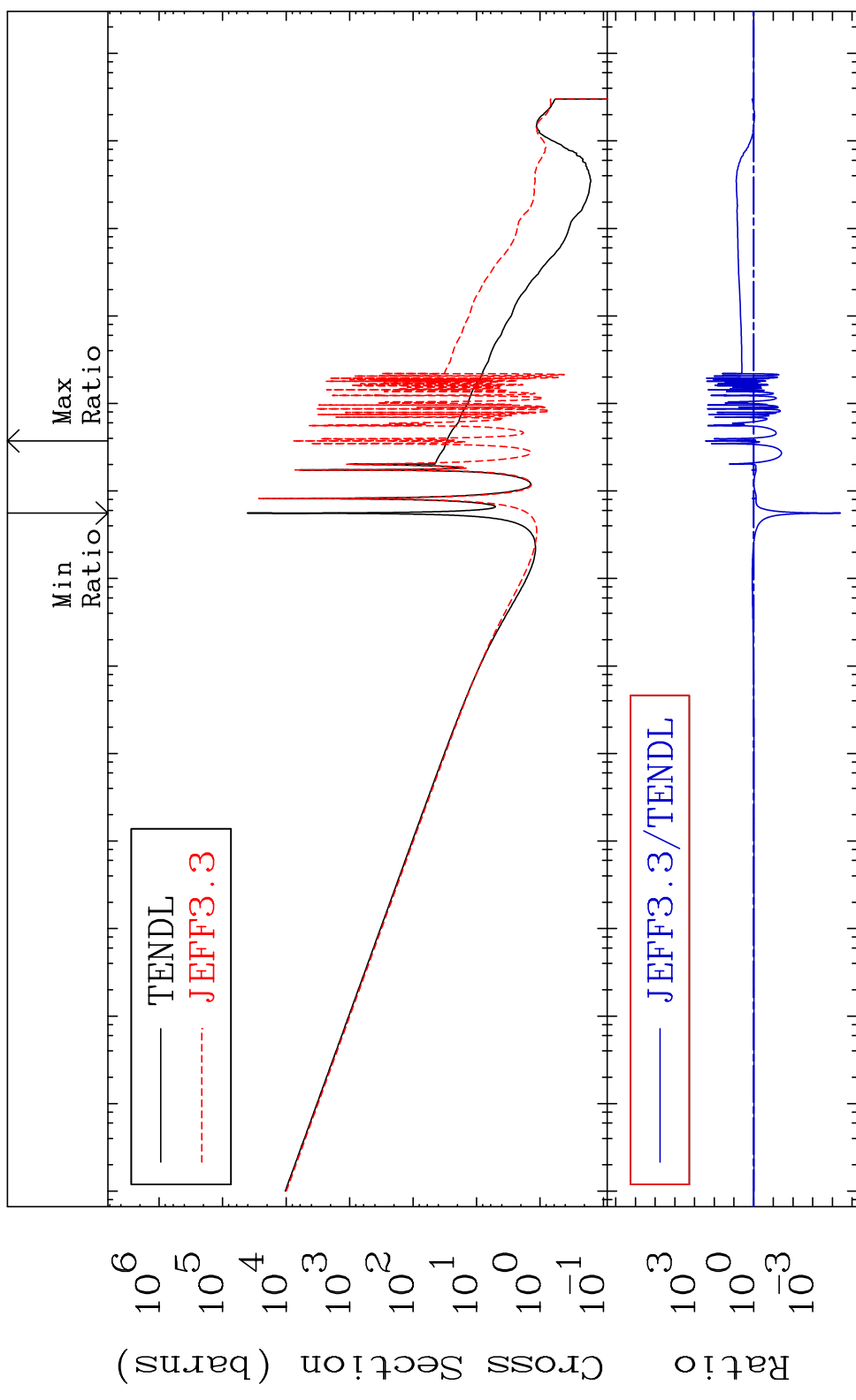


MAT 2728 Kerma fission (mt18 or mt19-20-21-38) 27-Co-60
 Cross Section -94.28 To 9999. %



MAT 2728

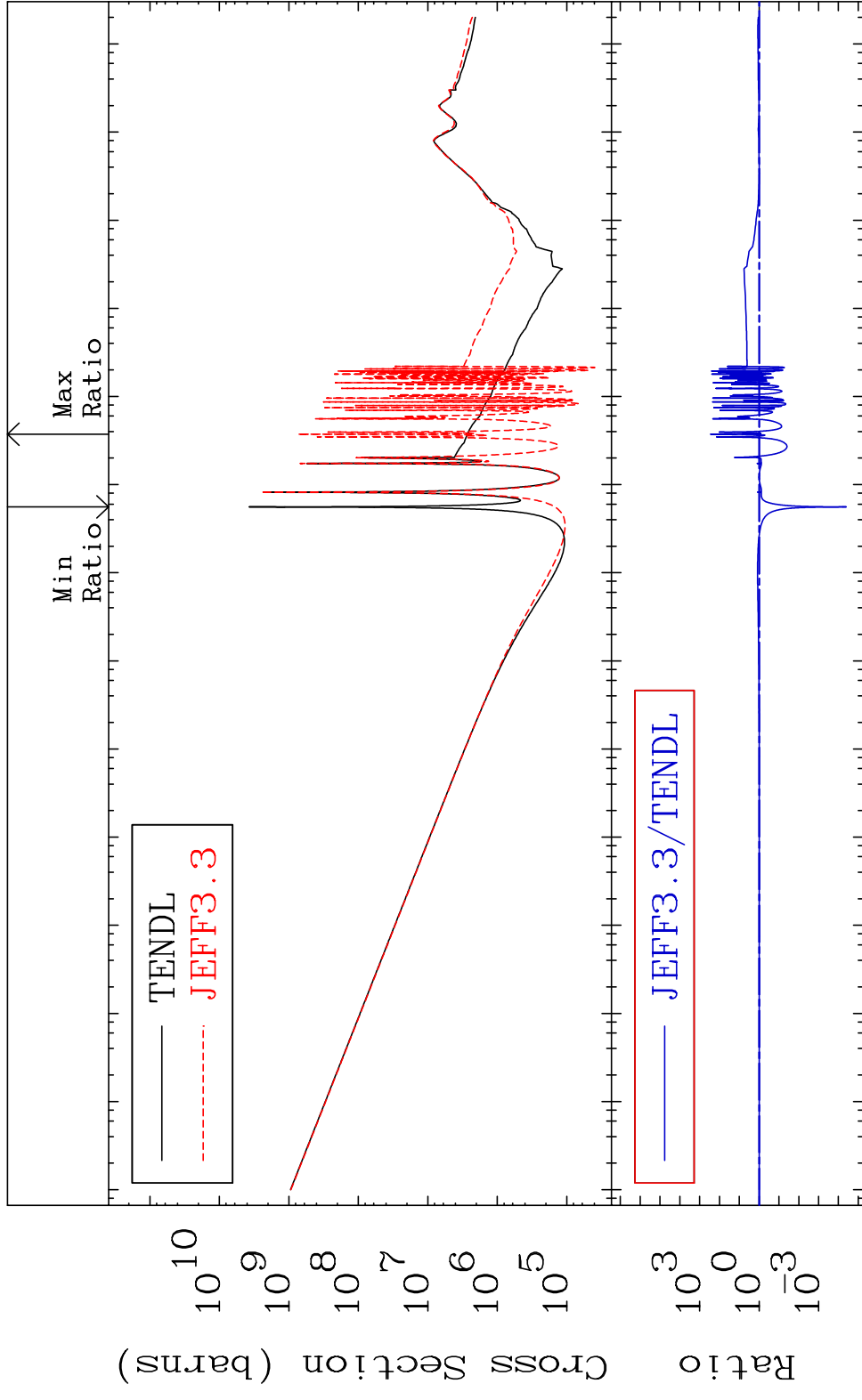
Kerma capture (mt102) 27-Co-60
Cross Section -100.0 To 9999. %



69

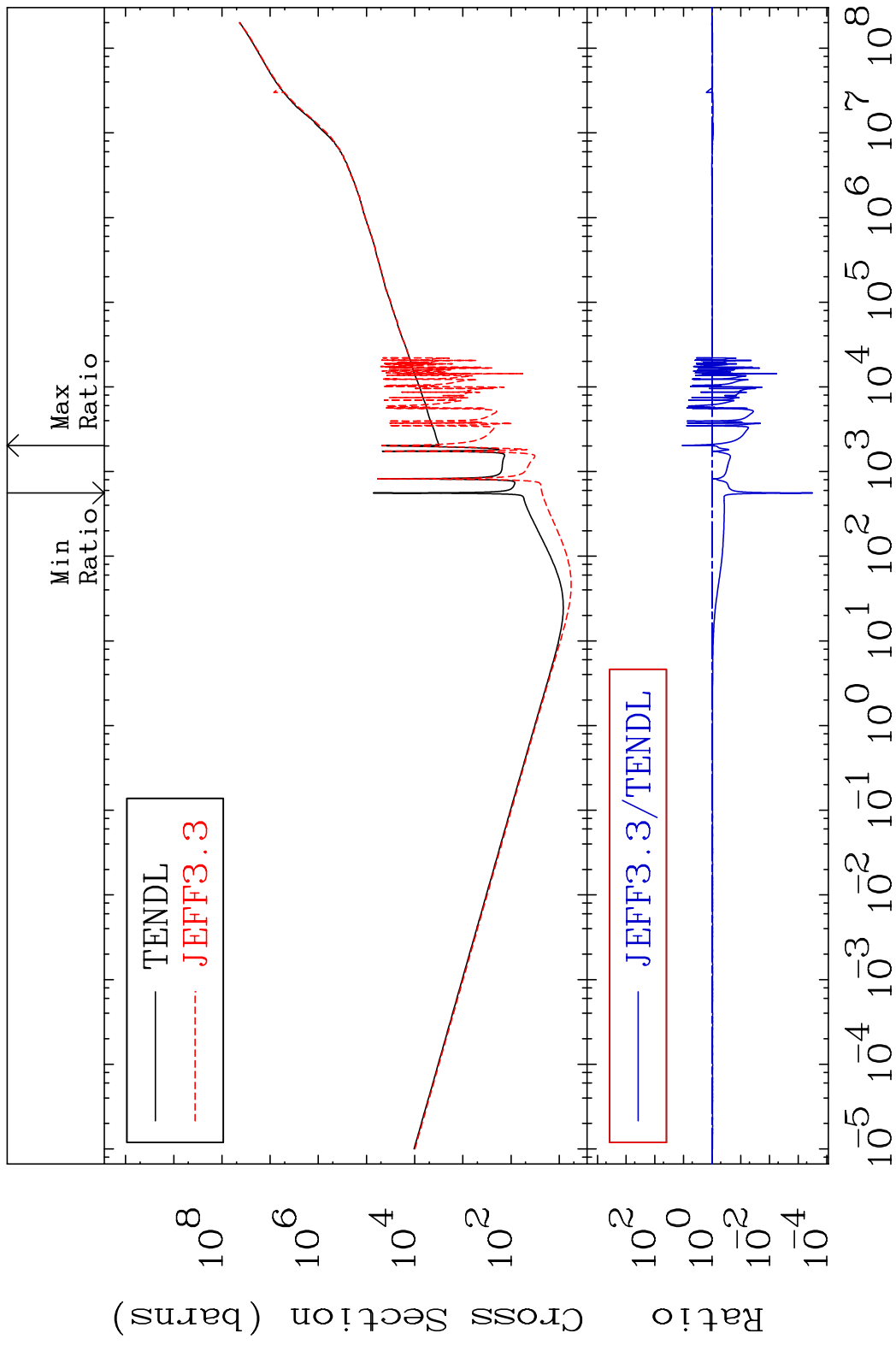
Incident Energy (eV) 27-Co-60

MAT 2728 Total photon (eV-barns) 27-Co-60
 Cross Section -100.0 To 9999. %

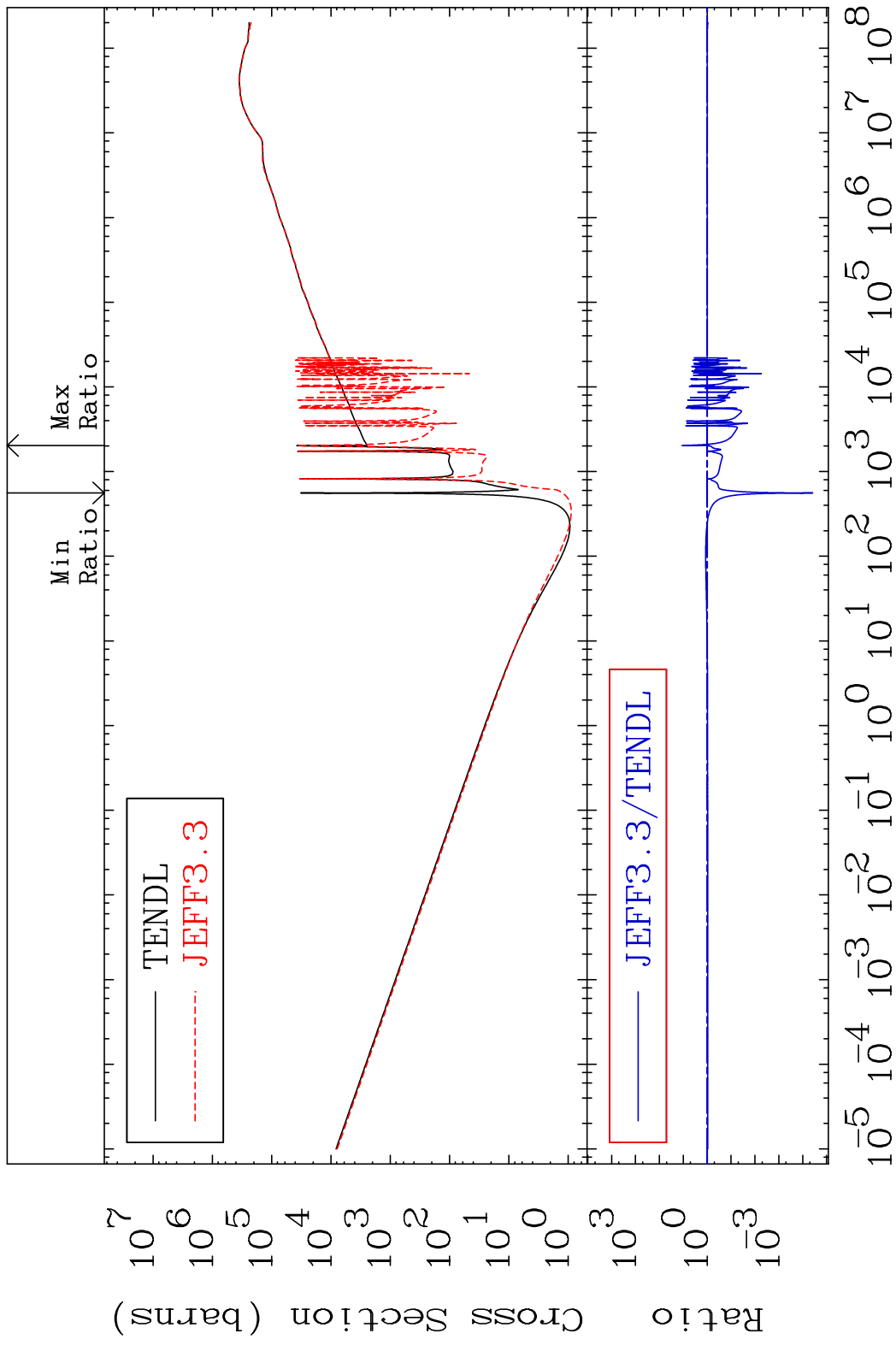


70 Incident Energy (eV) 27-Co-60

MAT 2728 Total kinematic kerma (high limit) 27-Co-60
 Cross Section -99.97 To 993.5 %



MAT 2728 Dpa total (eV-barns) 27-Co-60
 Cross Section -100.0 To 993.5 %



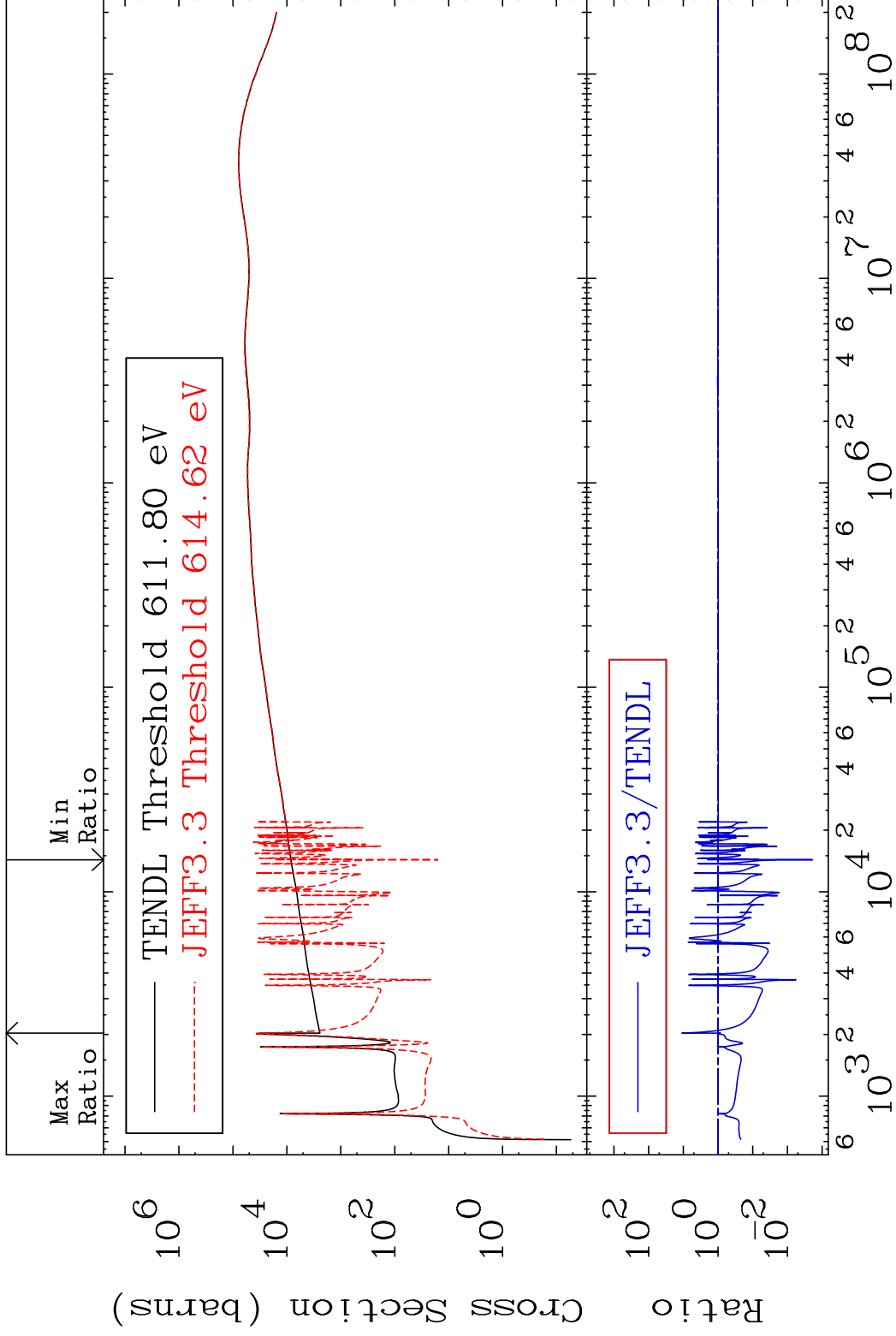
72 Incident Energy (eV) 27-Co-60

MAT 2728

Dpa elastic (mt2)

27-Co-60

Cross Section -99.81 To 985.1 %

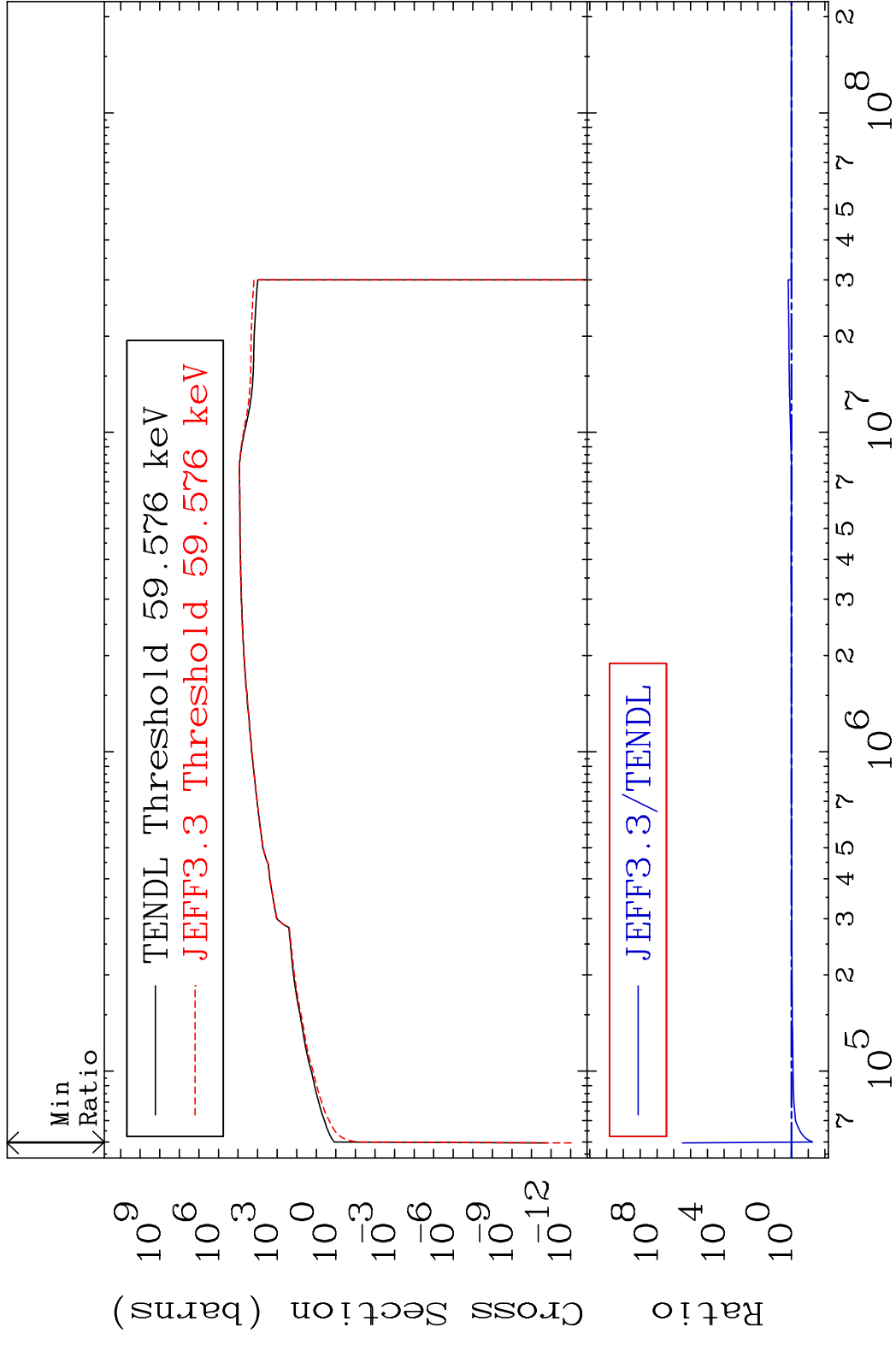


73

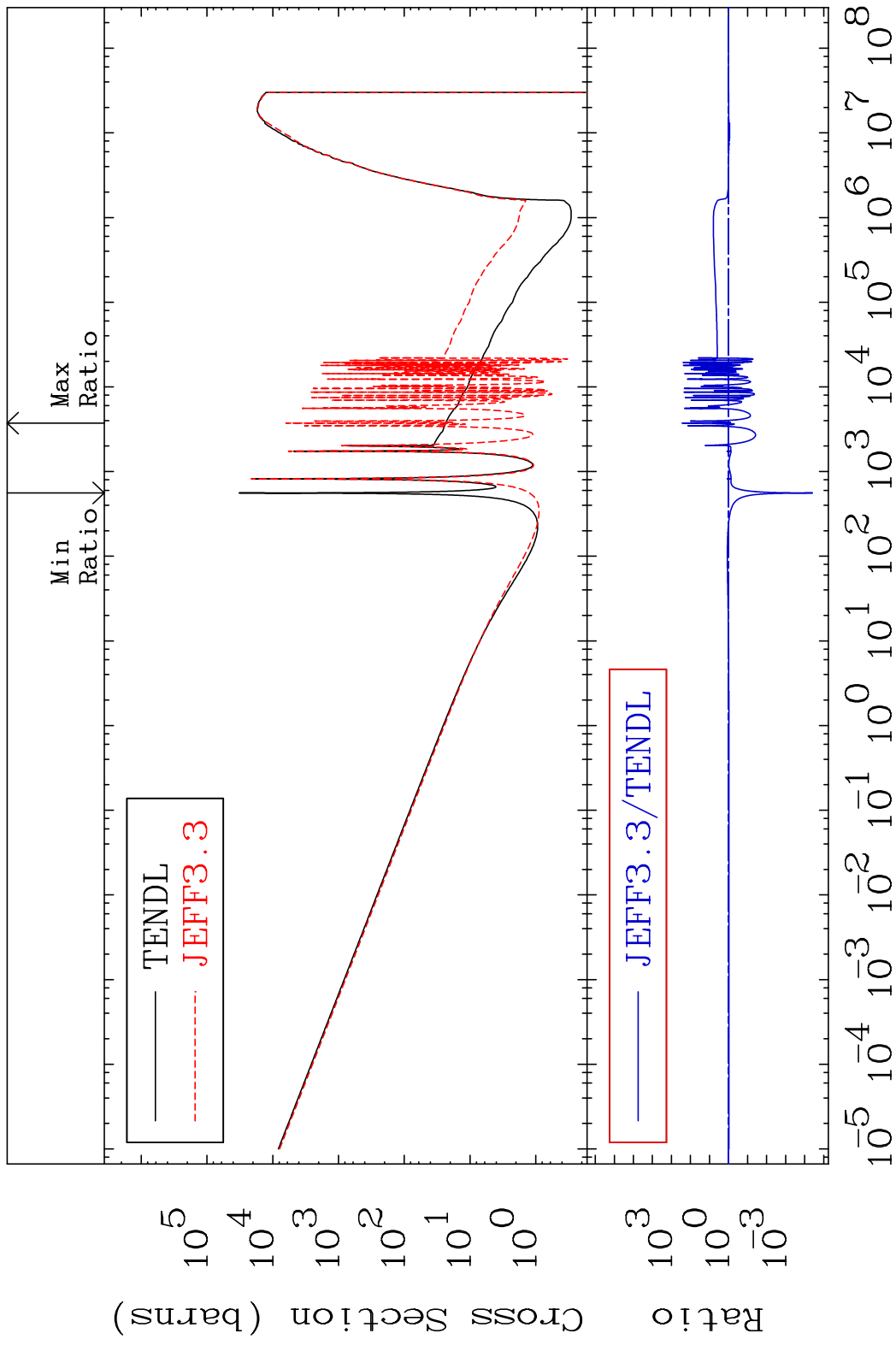
Incident Energy (eV)

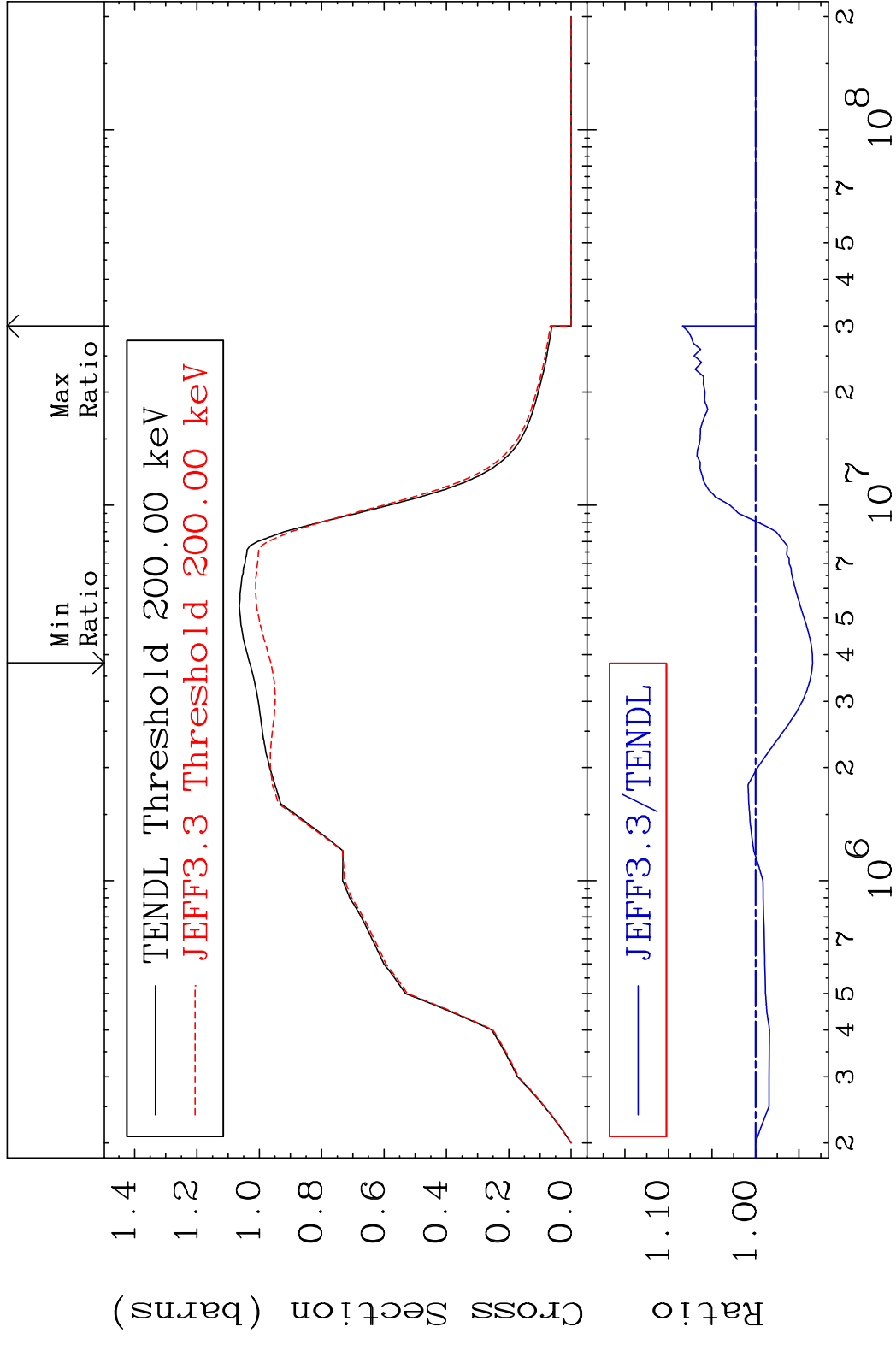
27-Co-60

MAT 2728 Dpa inelastic (mt51-91) 27-Co-60
 Cross Section -94.48 To 9999. %

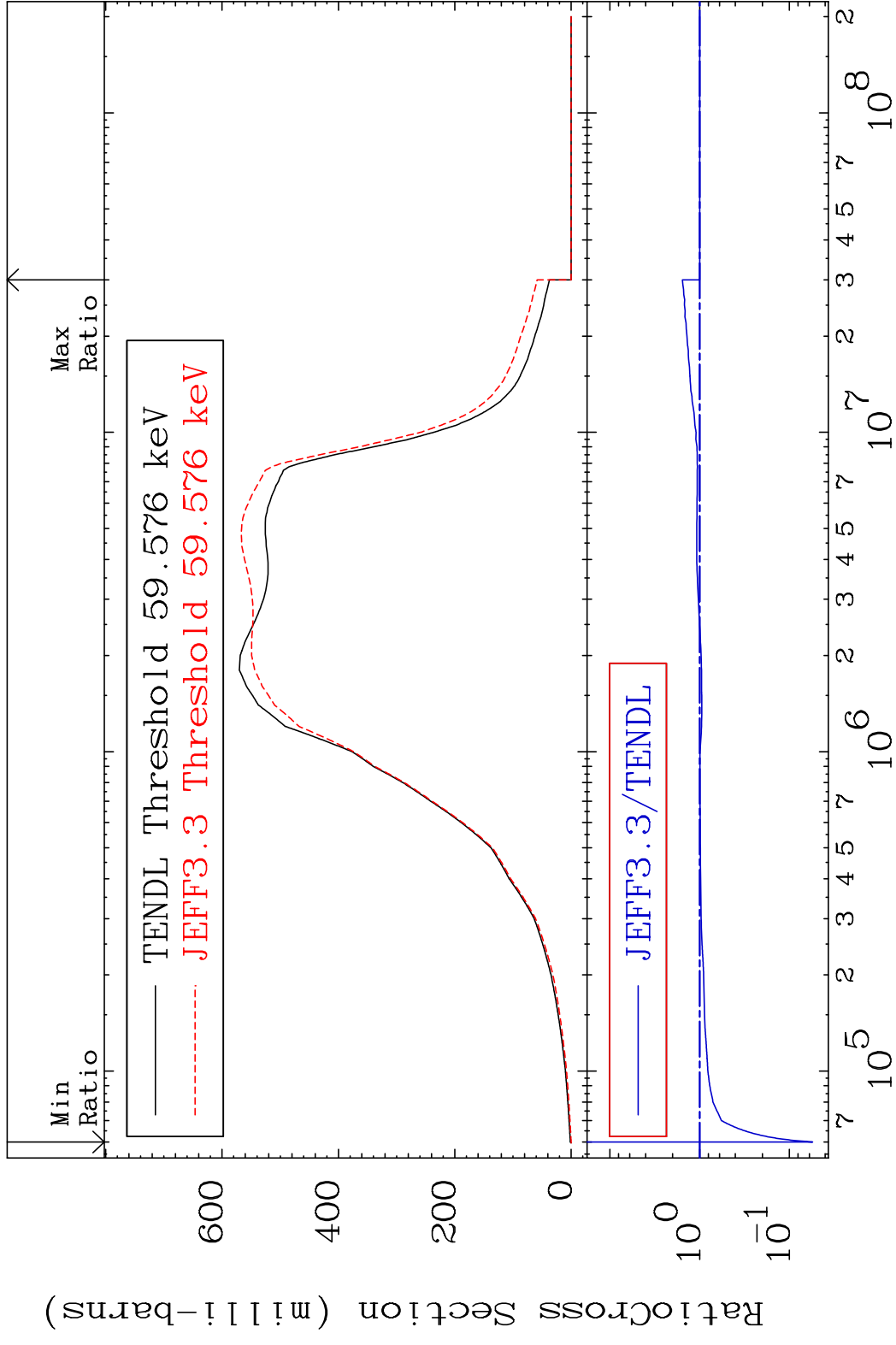


MAT 2728 Dpa disappearance (mt102 -120) 27-Co-60
 Cross Section -100.0 To 9999. %

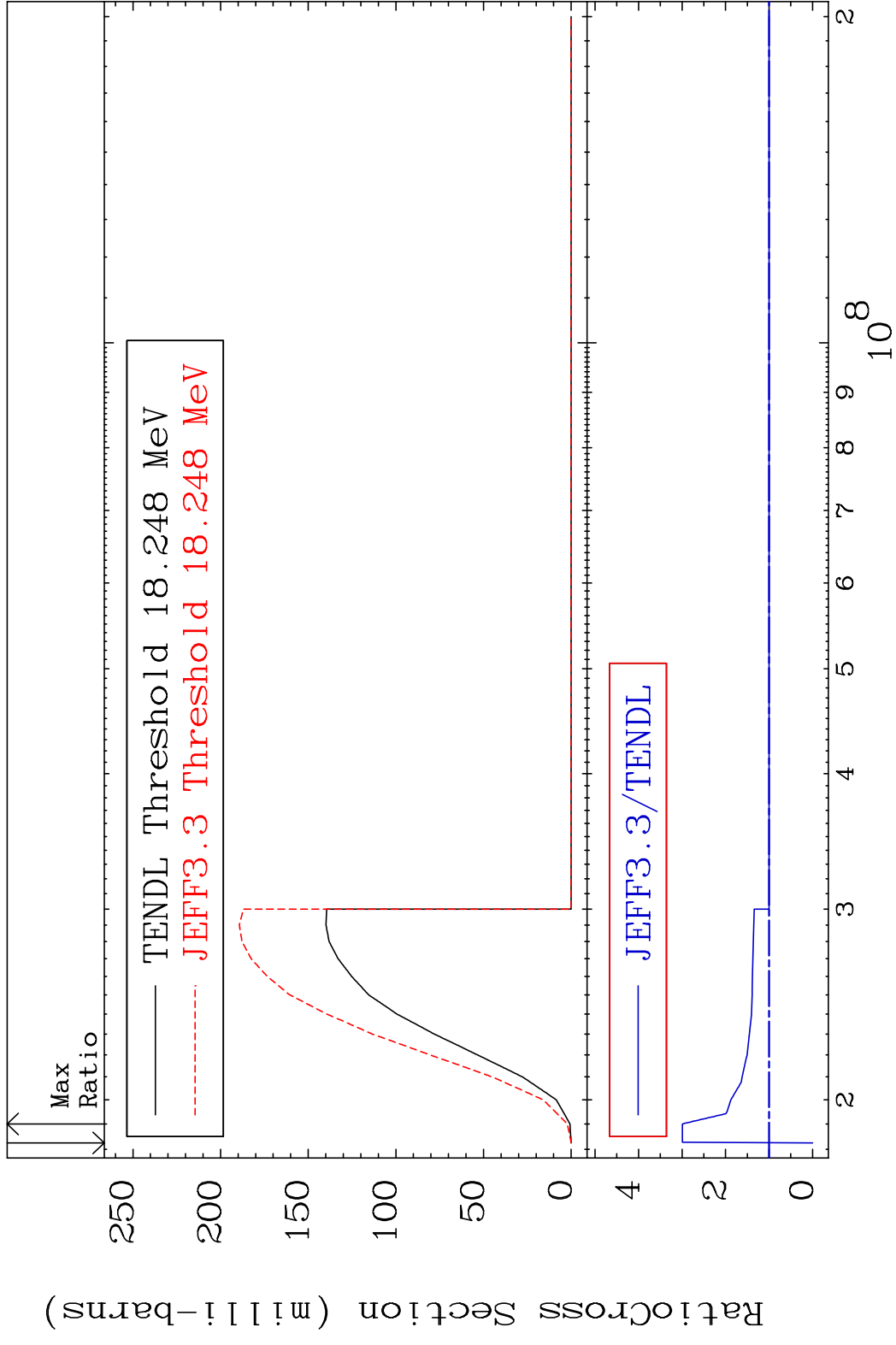




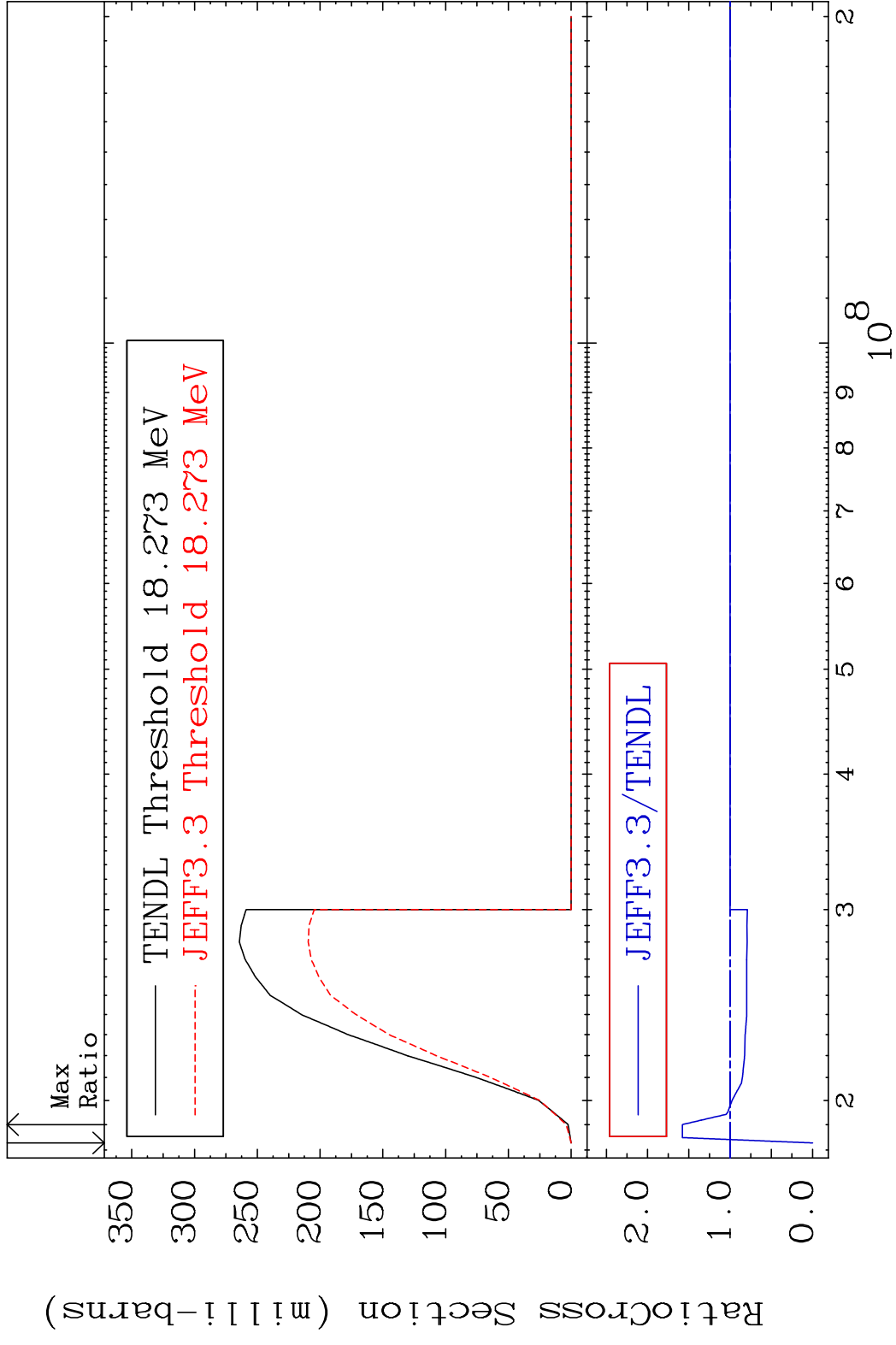
MAT 2728 Inelastic:27-Co-60m1 27-Co-60
 Radionuclide Production Cross Section 55.88 %



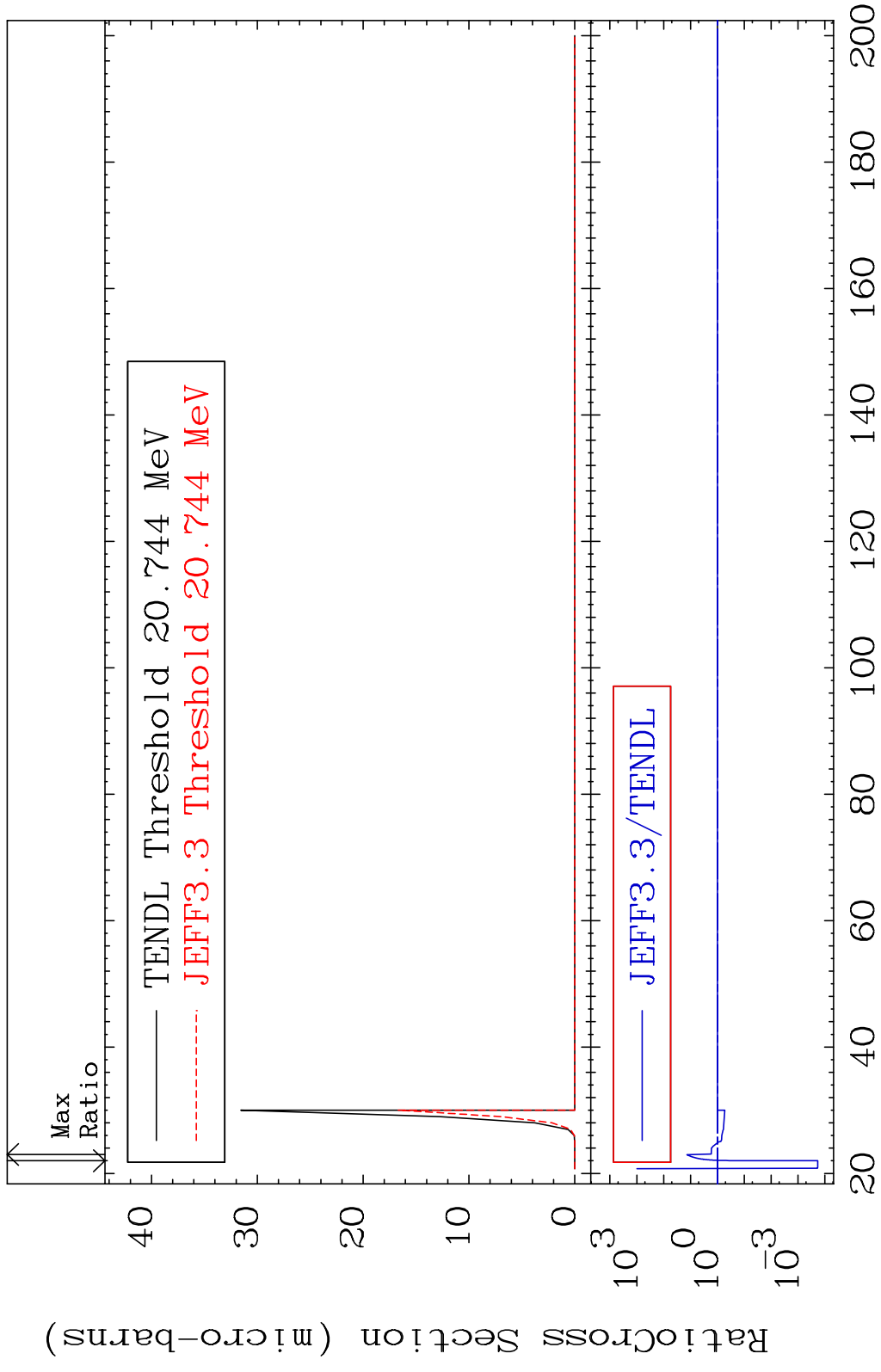
MAT 2728 (n,3n):27-Co-58g 27-Co-60
 Radionuclide Production Cross Section 189.3 %



MAT 2728 (n,3n):27-Co-58m1 27-Co-60
 Radionuclide Production Cross Section 18.273 MeV 57.85 %



MAT 2728 (n,2n) p:25-Mn-58g 27-Co-60
 Radionuclide Production Cross Section 98.981 d/o 1291. %



80 Incident Energy (MeV) 27-Co-60

