

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

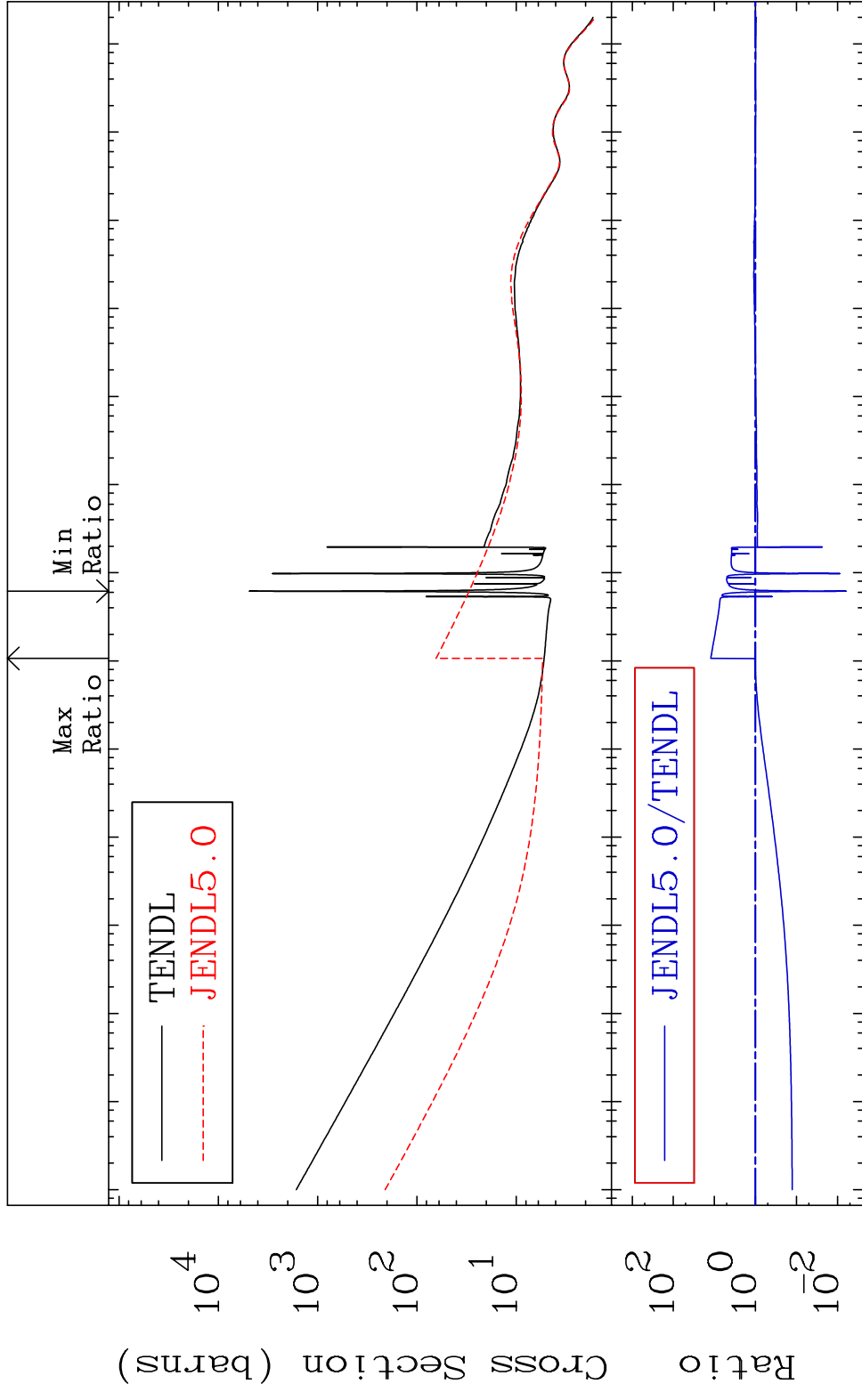
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 4320

Total Cross Section -99.39 To 1128. %
43-Tc-97m



10⁴ 10³ 10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵
10⁸ 10⁷ 10⁶ 10⁵ 10⁴ 10³ 10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵
Incident Energy (eV) 43-Tc-97m

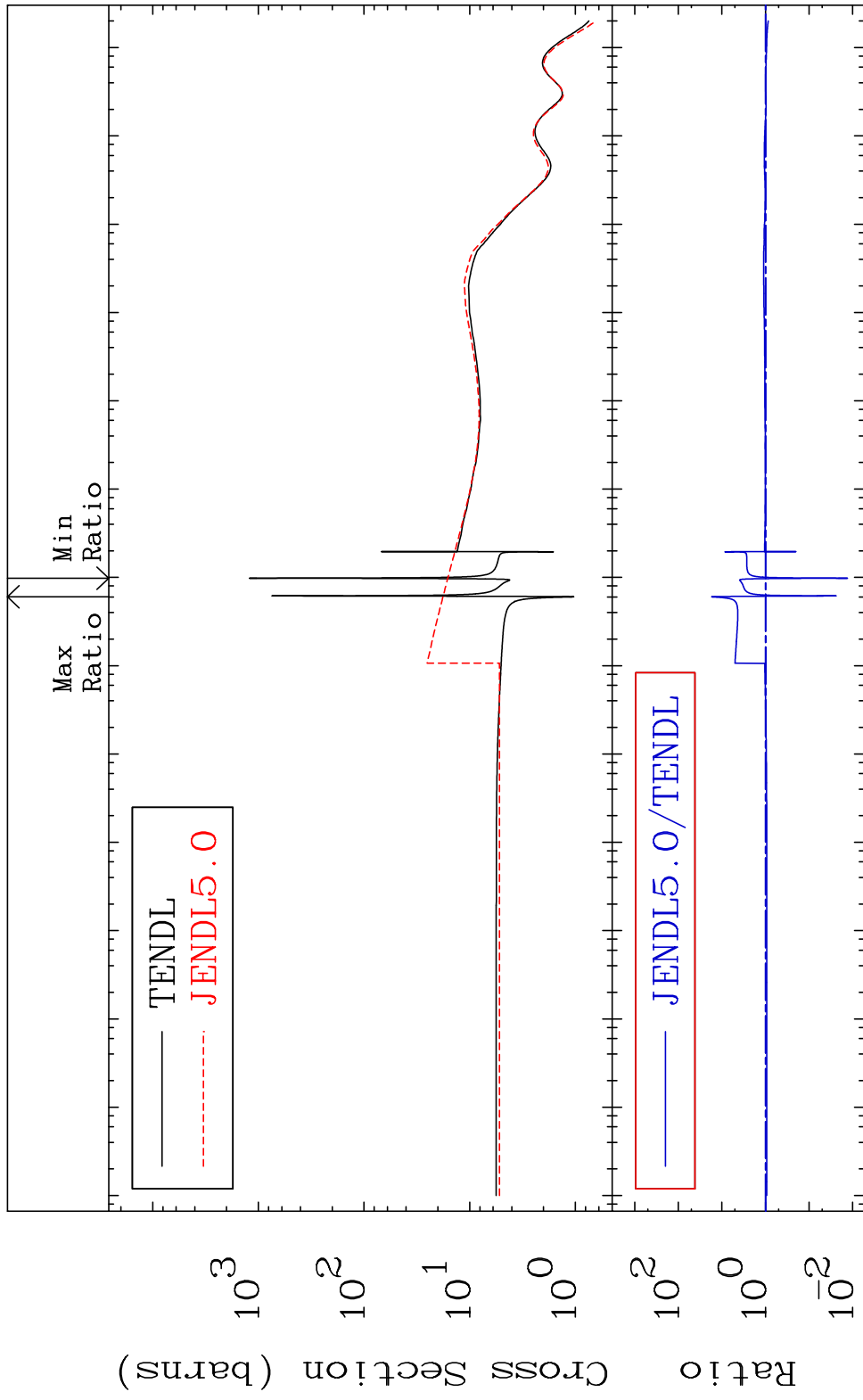
MAT 4320

Elastic

43-Tc-97m

Cross Section

-98.67 To 1626. %



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

2

Incident Energy (eV)

43-Tc-97m

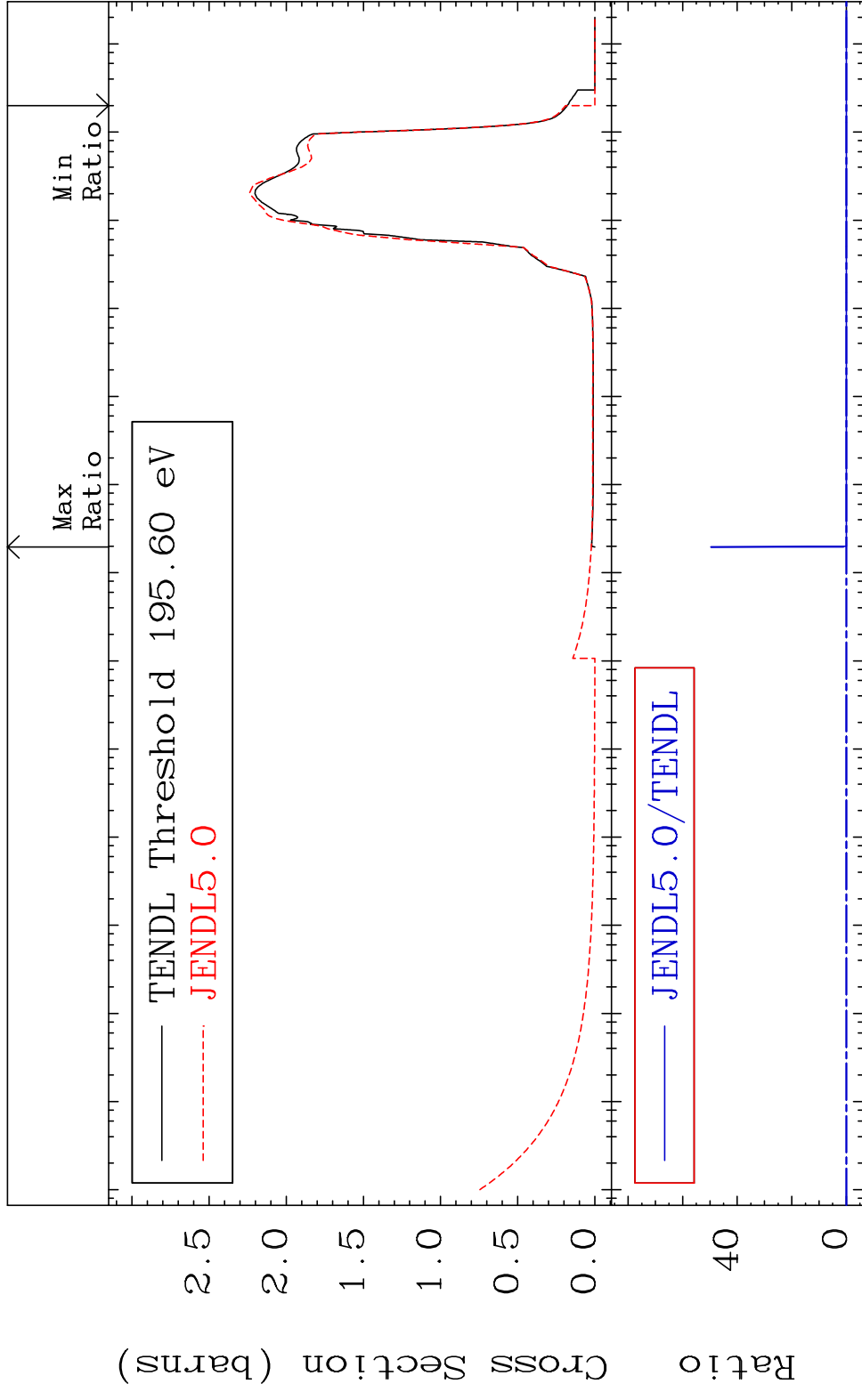
MAT 4320

Inelastic

43-Tc-97m

Cross Section

-100.0 To 9999. %

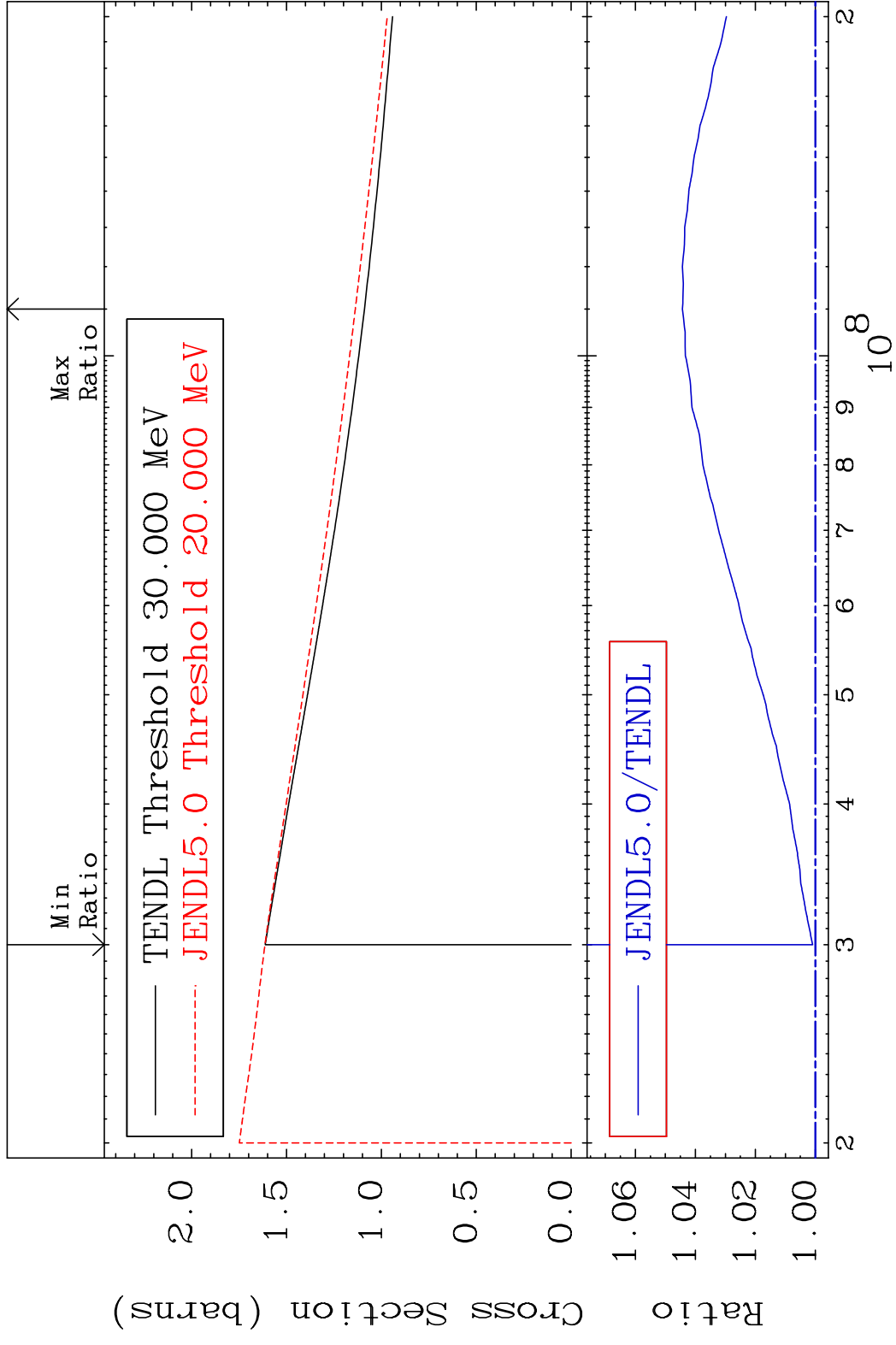


3

Incident Energy (eV)

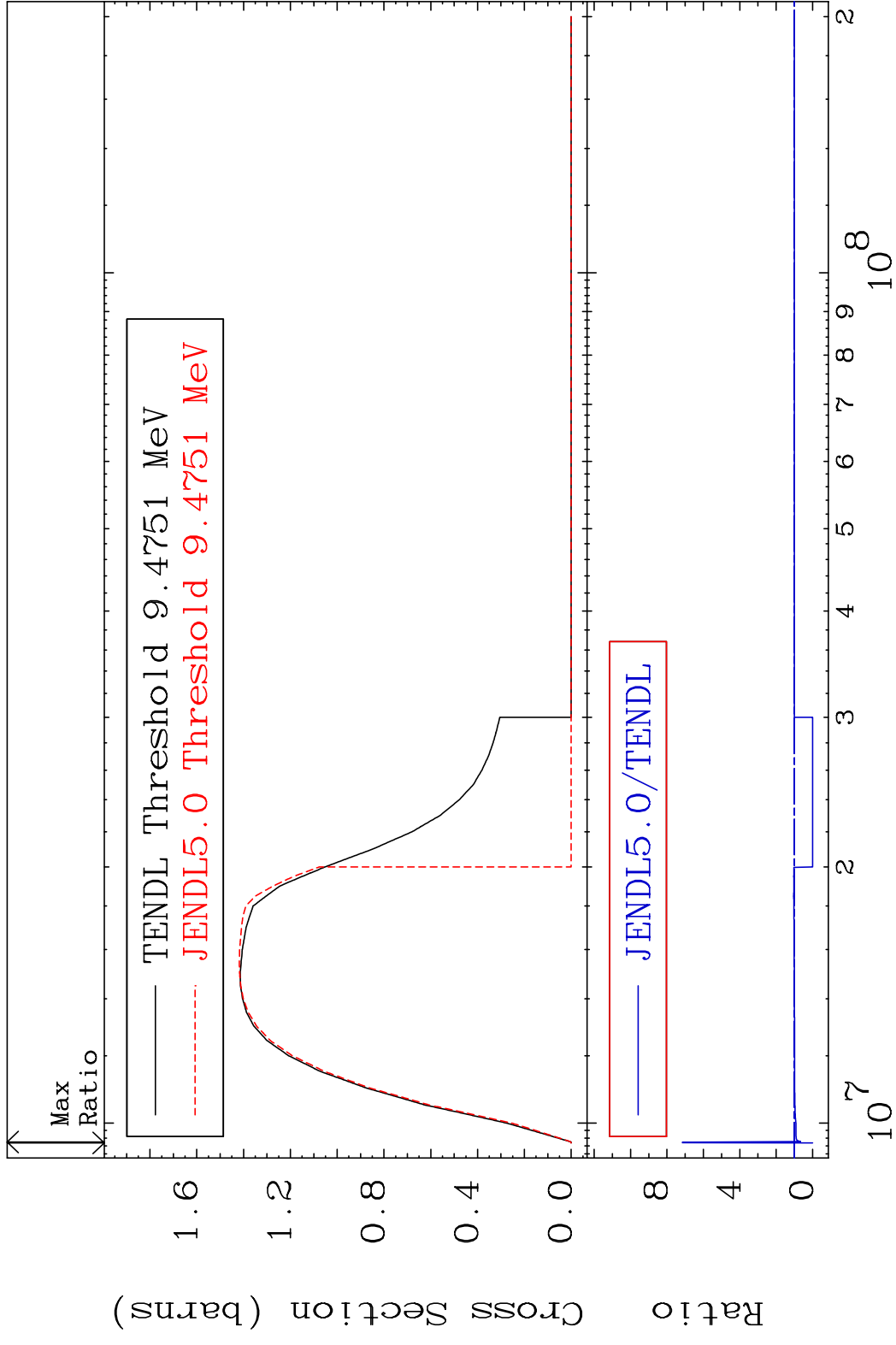
43-Tc-97m

MAT 4320 (n, remainder) 43-Tc-97m
 Cross Section 0.094 To 4.434 %

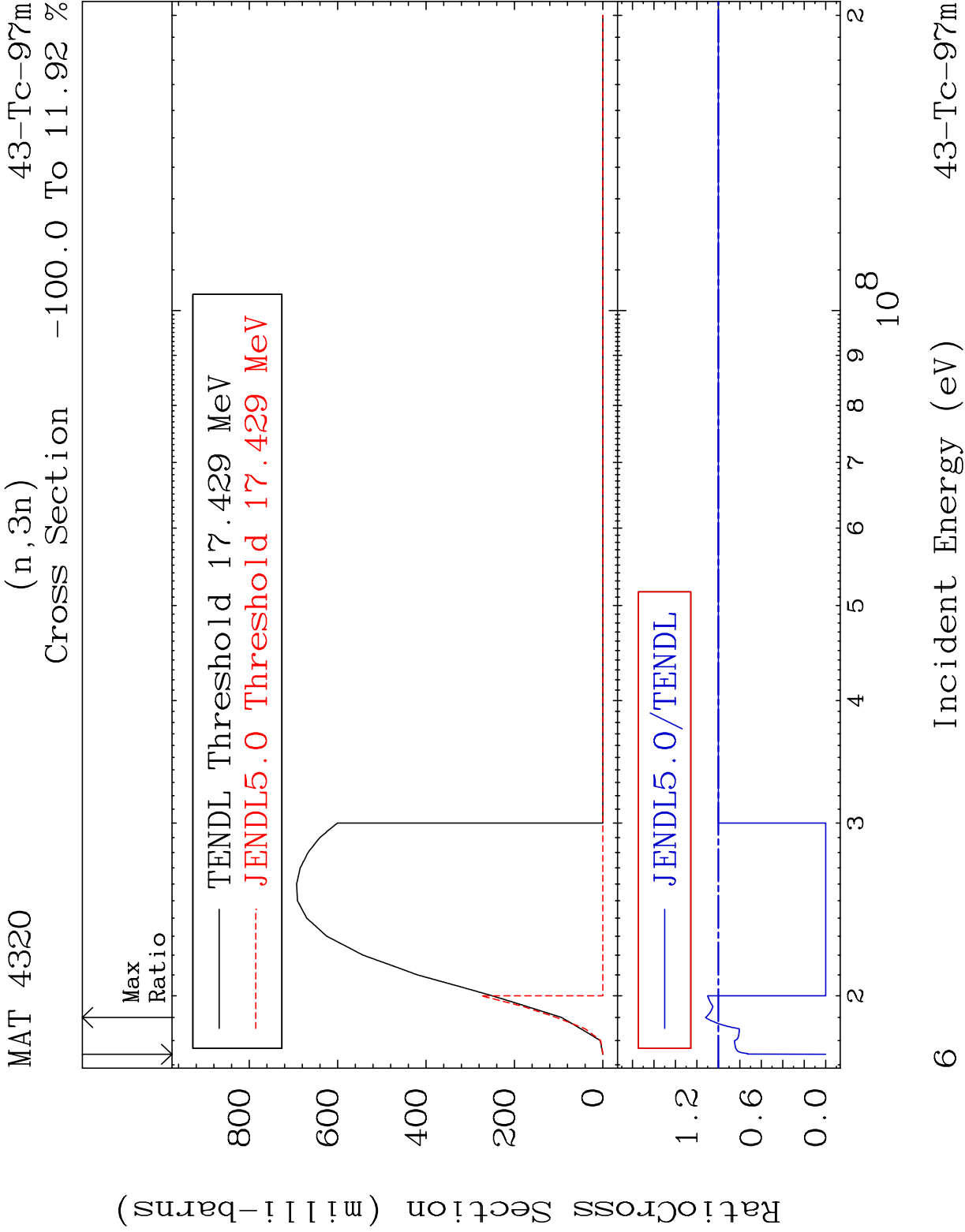


4 Incident Energy (eV) 43-Tc-97m

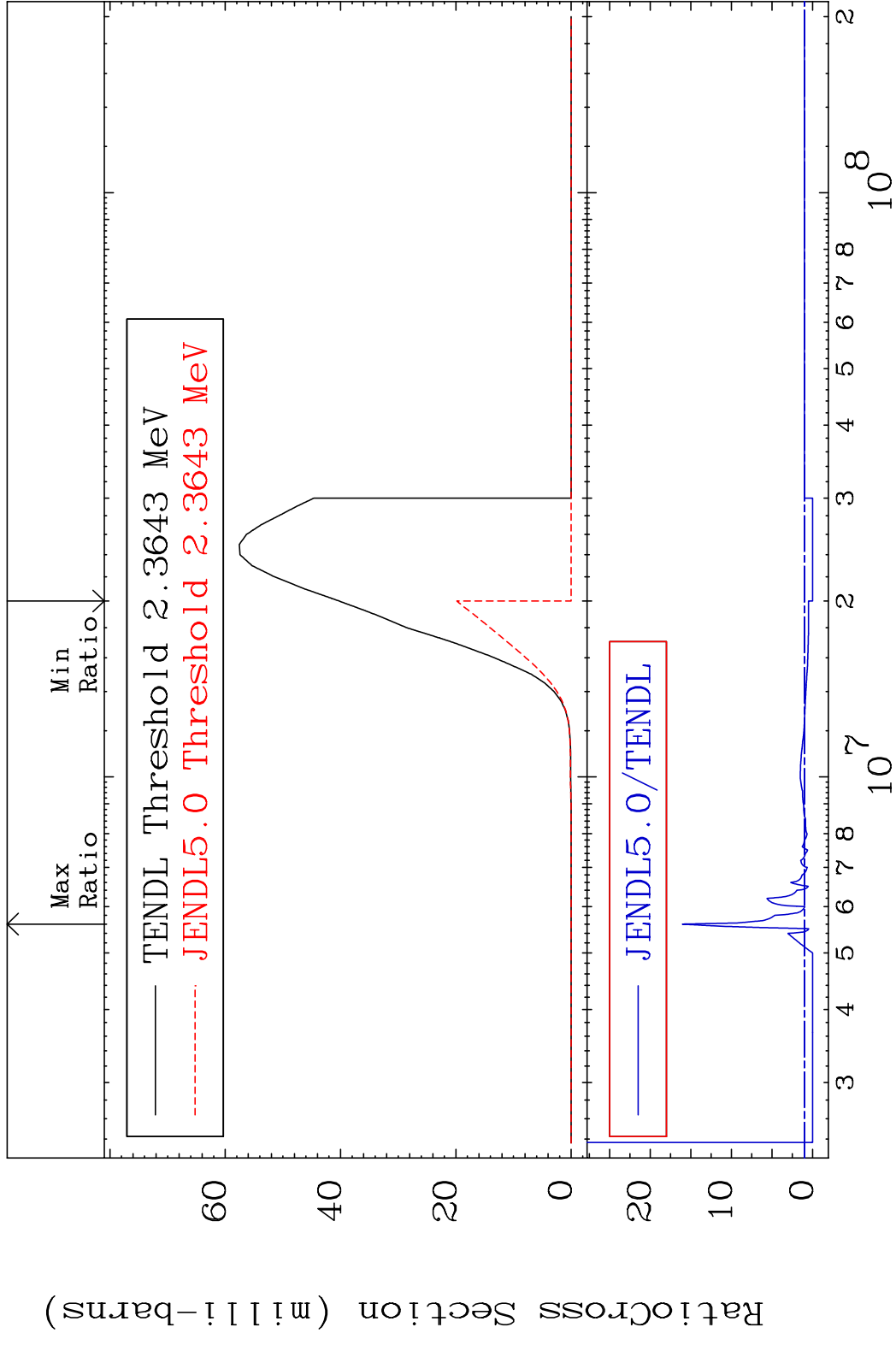
MAT 4320 (n,2n) 43-Tc-97m
 Cross Section -100.0 To 615.5 %



5 8 9 2
 10⁷ 10⁸
 43-Tc-97m

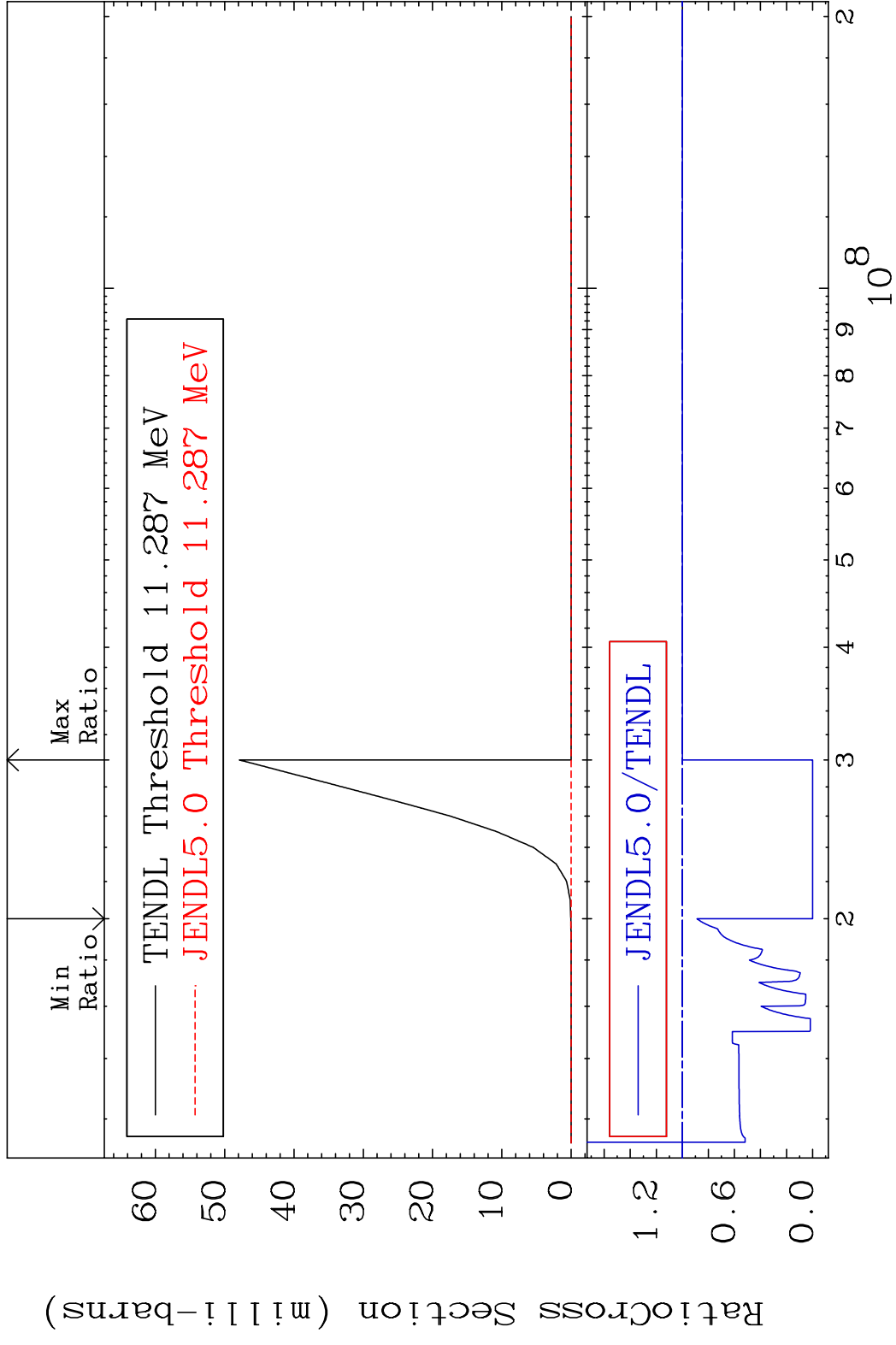


MAT 4320 (n, n') α 43-Tc-97m
 Cross Section -100.0 To 1504. %

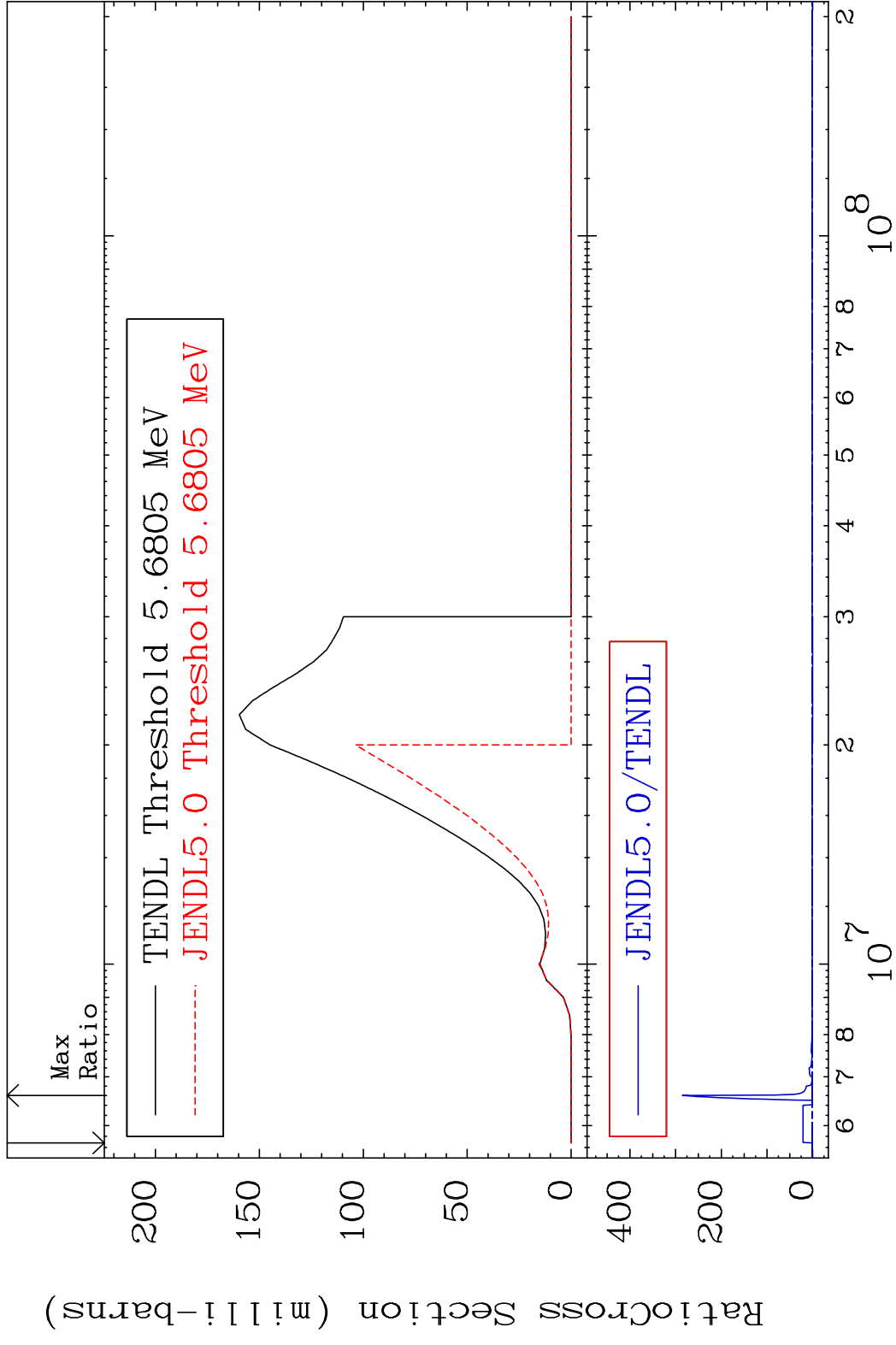


7 Incident Energy (eV) 43-Tc-97m

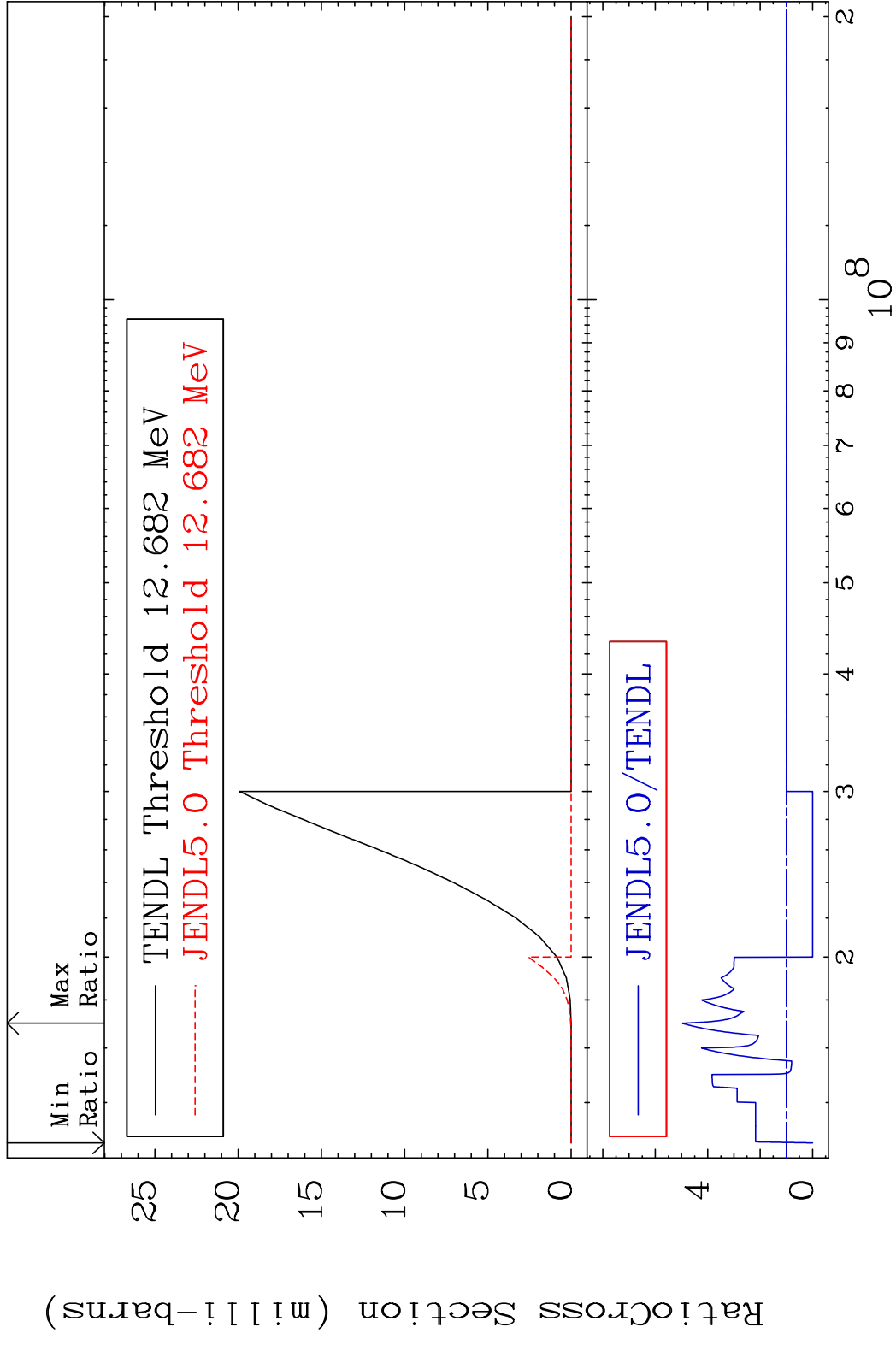
MAT 4320 (n,2n) α 43-Tc-97m
 Cross Section -100.0 To 0.000 %



MAT 4320 (n, n') p 43-Tc-97m
 Cross Section -100.0 To 9999. %

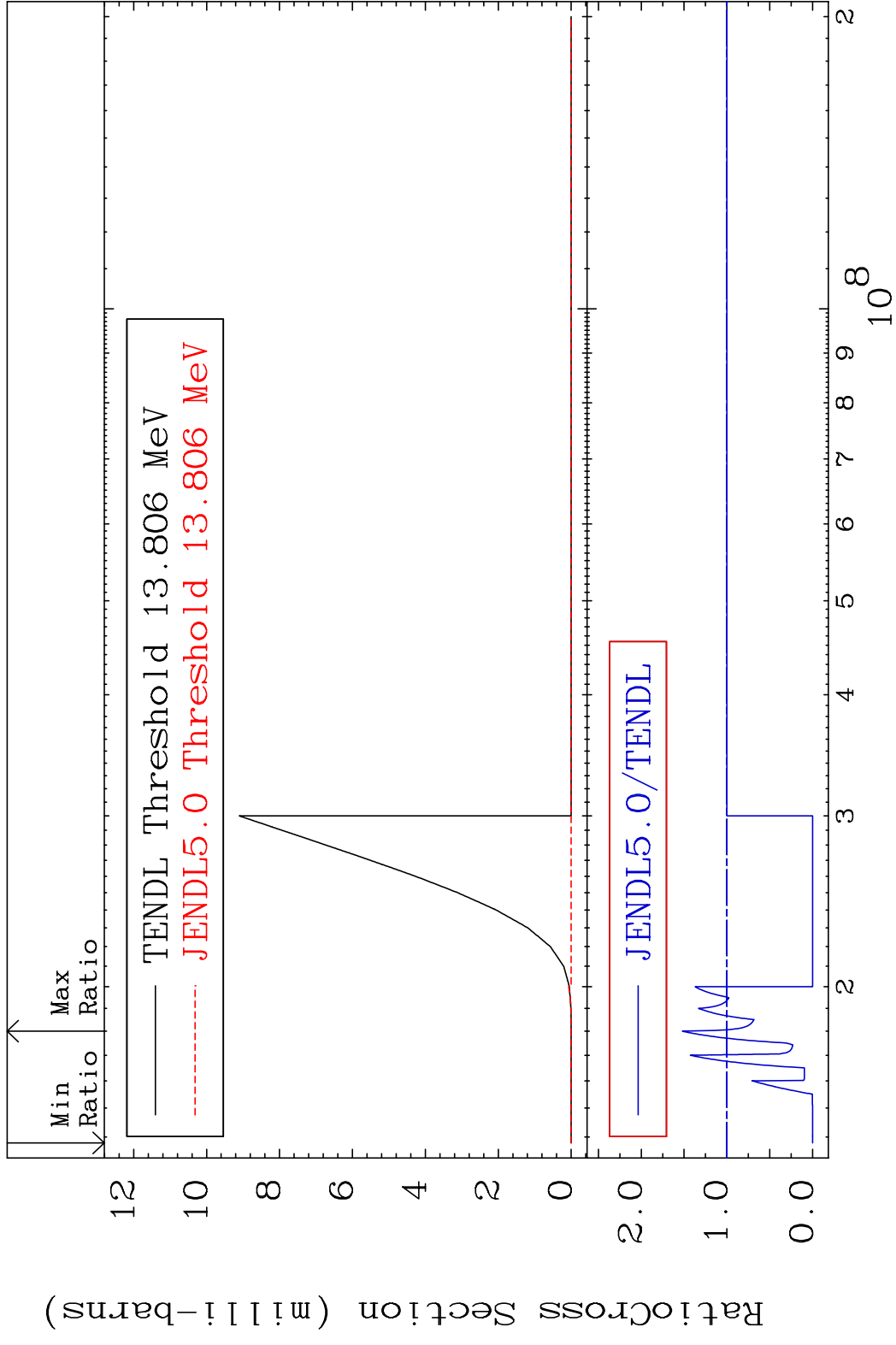


MAT 4320 (n, n') d 43-Tc-97m
 Cross Section -100.0 To 396.8 %

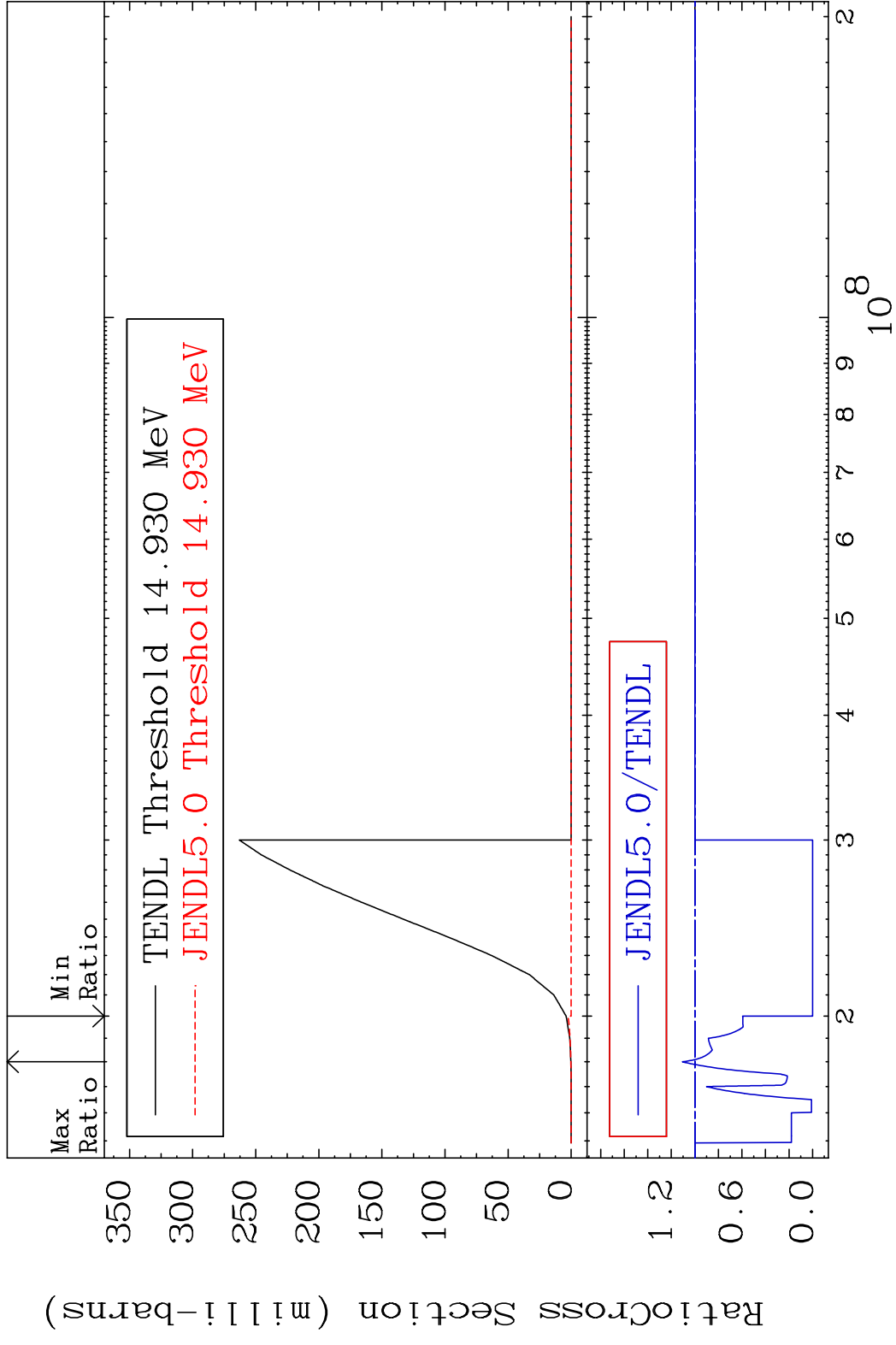


10 2 43-Tc-97m

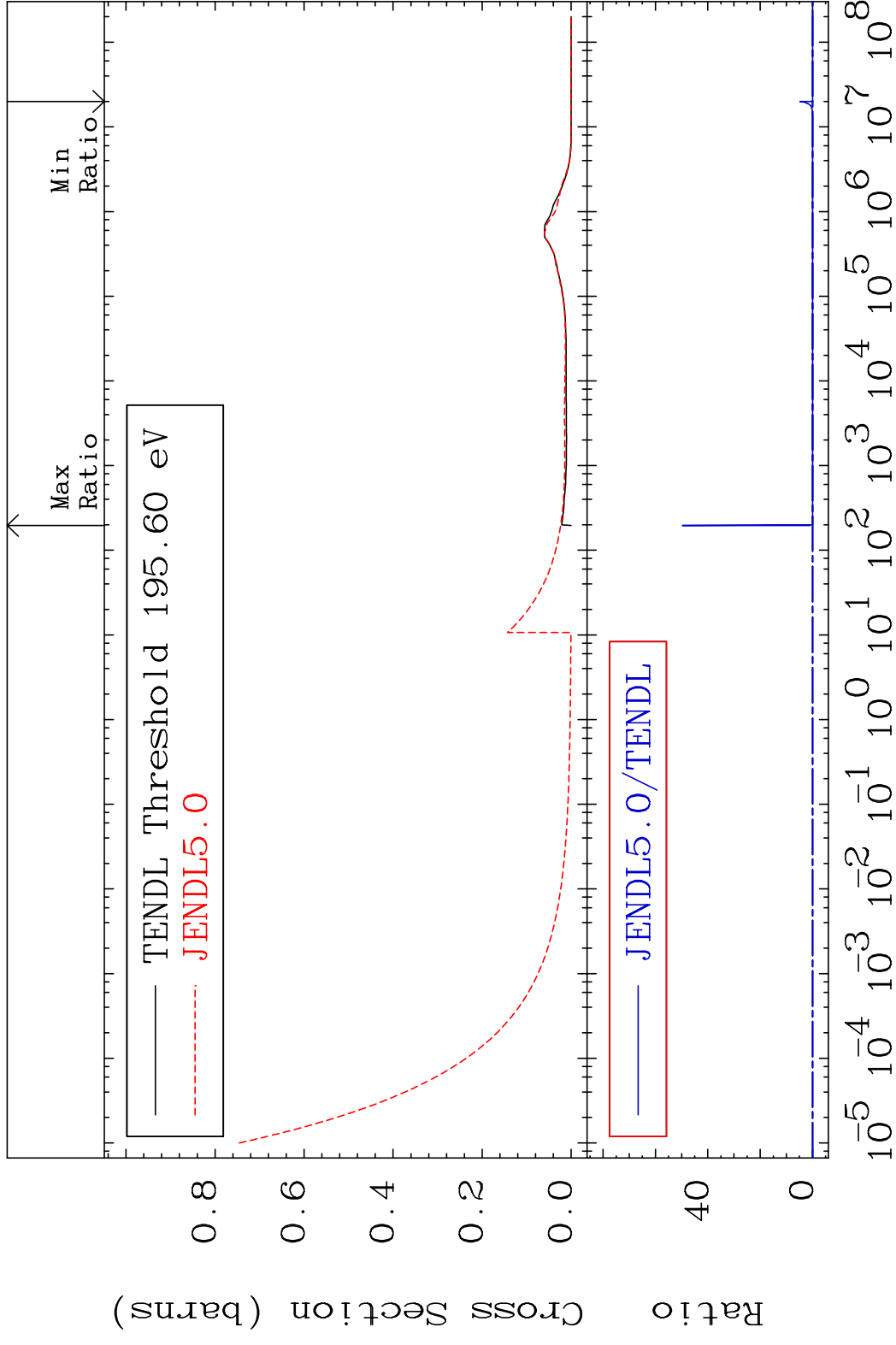
MAT 4320 (n, n') t 43-Tc-97m
 Cross Section -100.0 To 52.02 %



MAT 4320 (n,2n) p 43-Tc-97m
 Cross Section -100.0 To 10.63 %

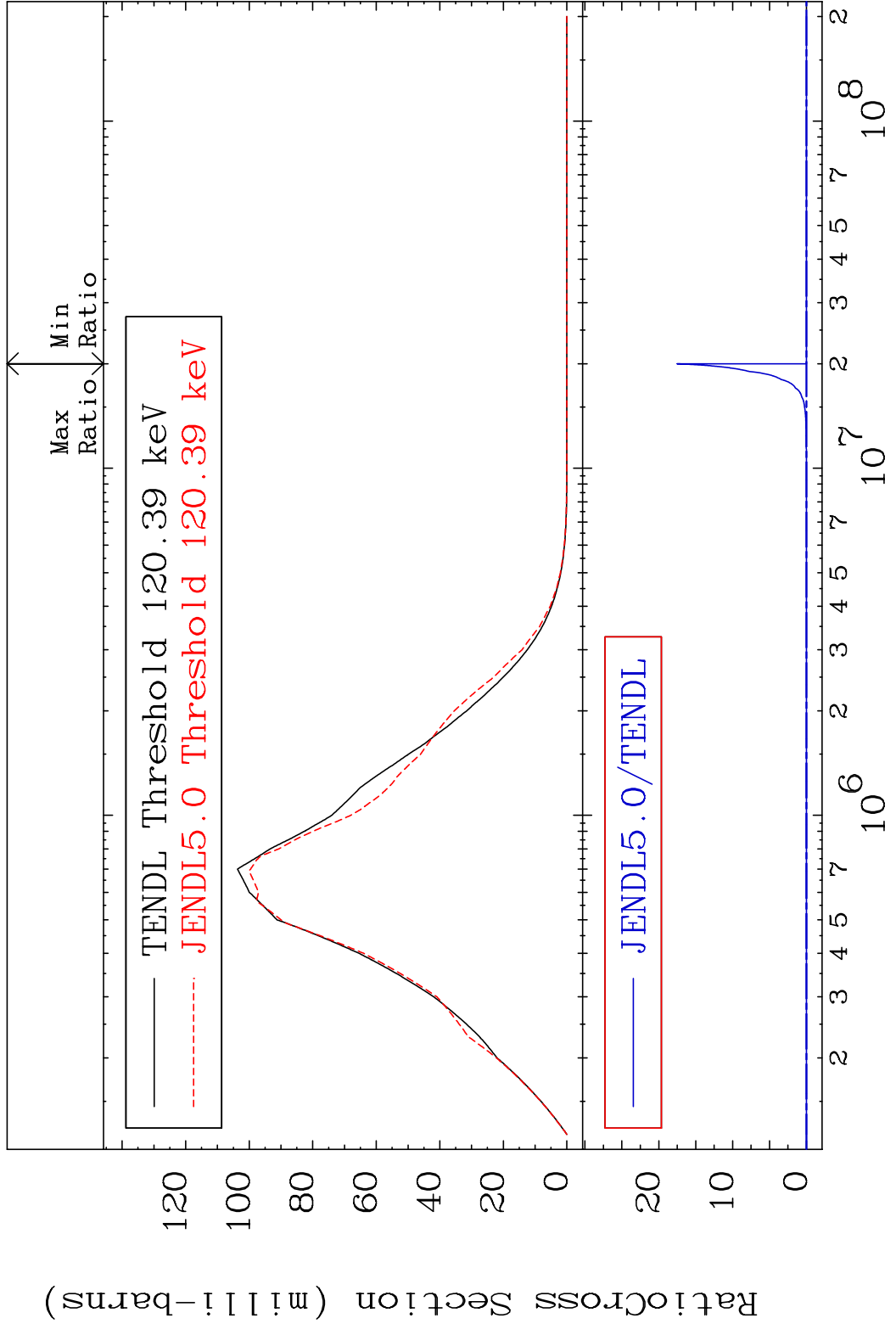


MAT 4320 MT= 51 (n,n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %

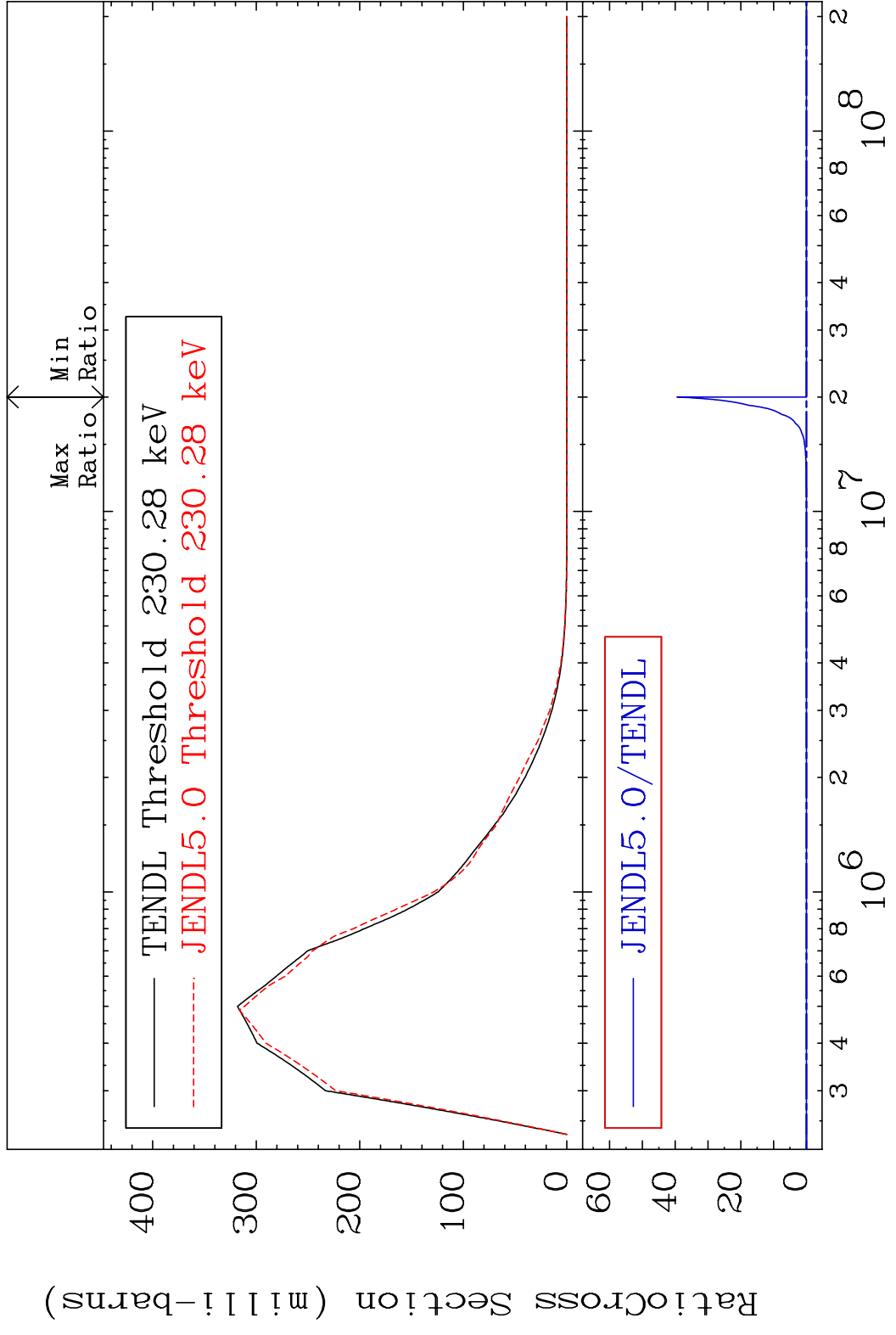


13 43-Tc-97m

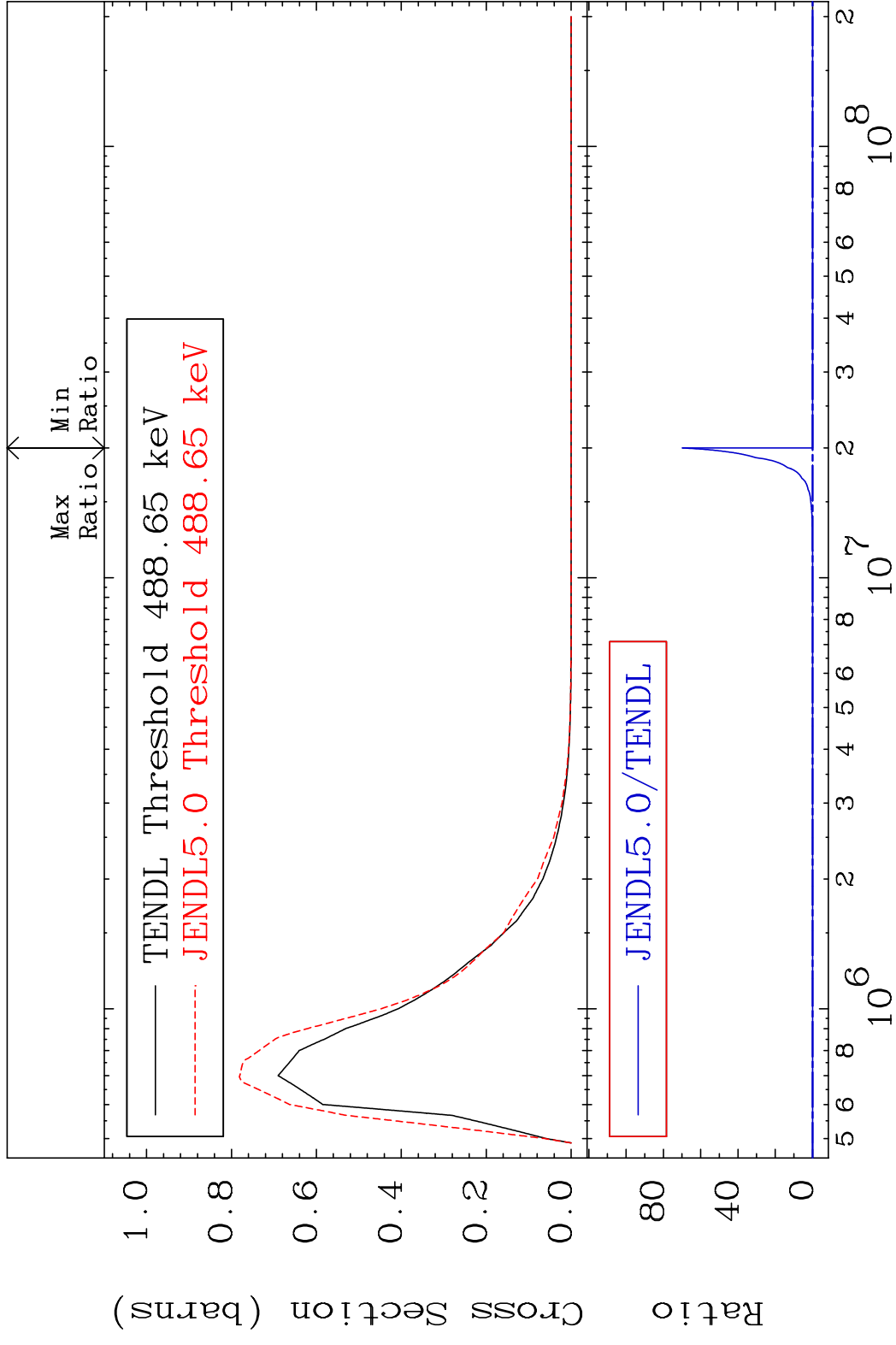
MAT 4320 MT= 52 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %



MAT 4320 MT= 53 (n,n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %

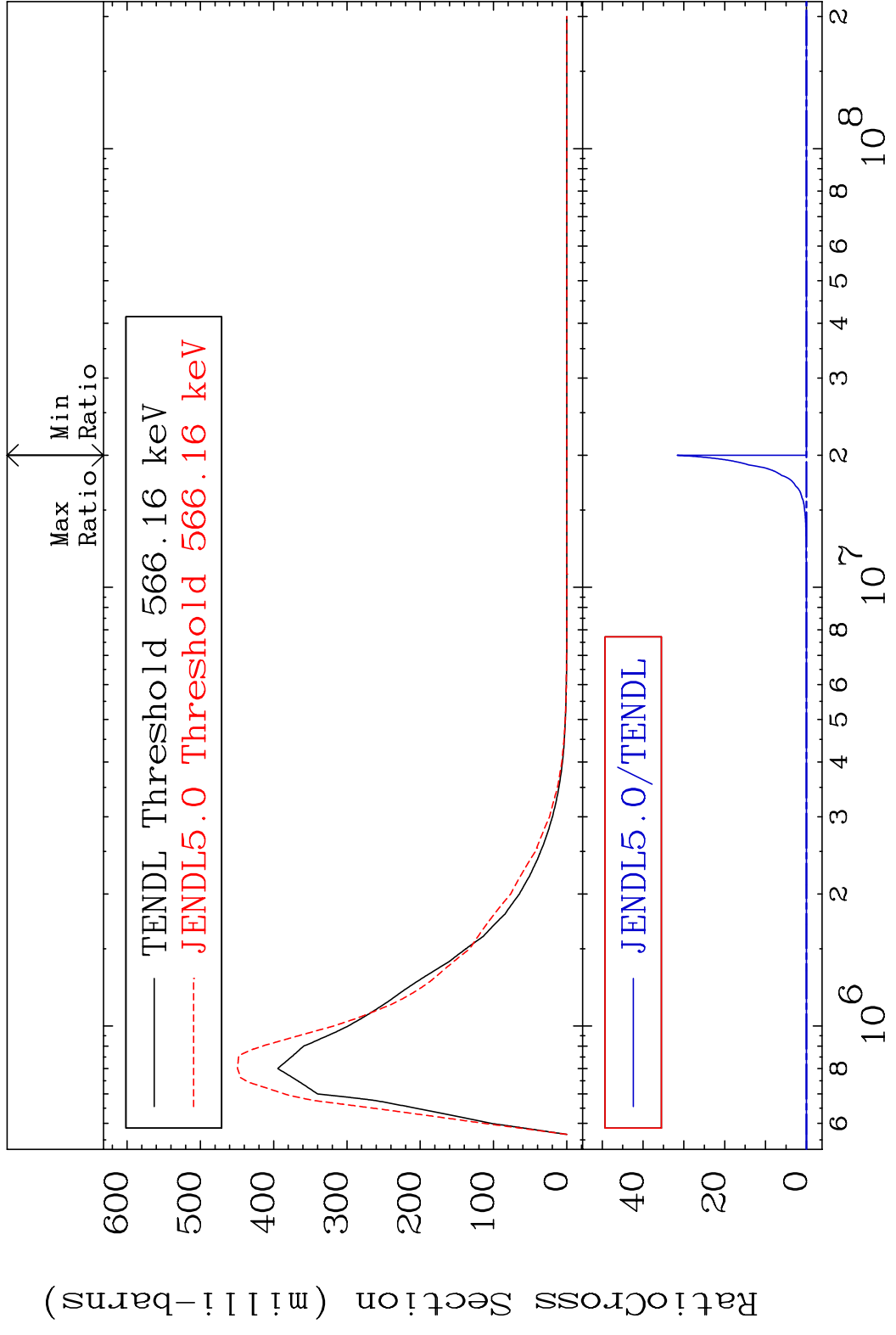


MAT 4320 MT= 54 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %



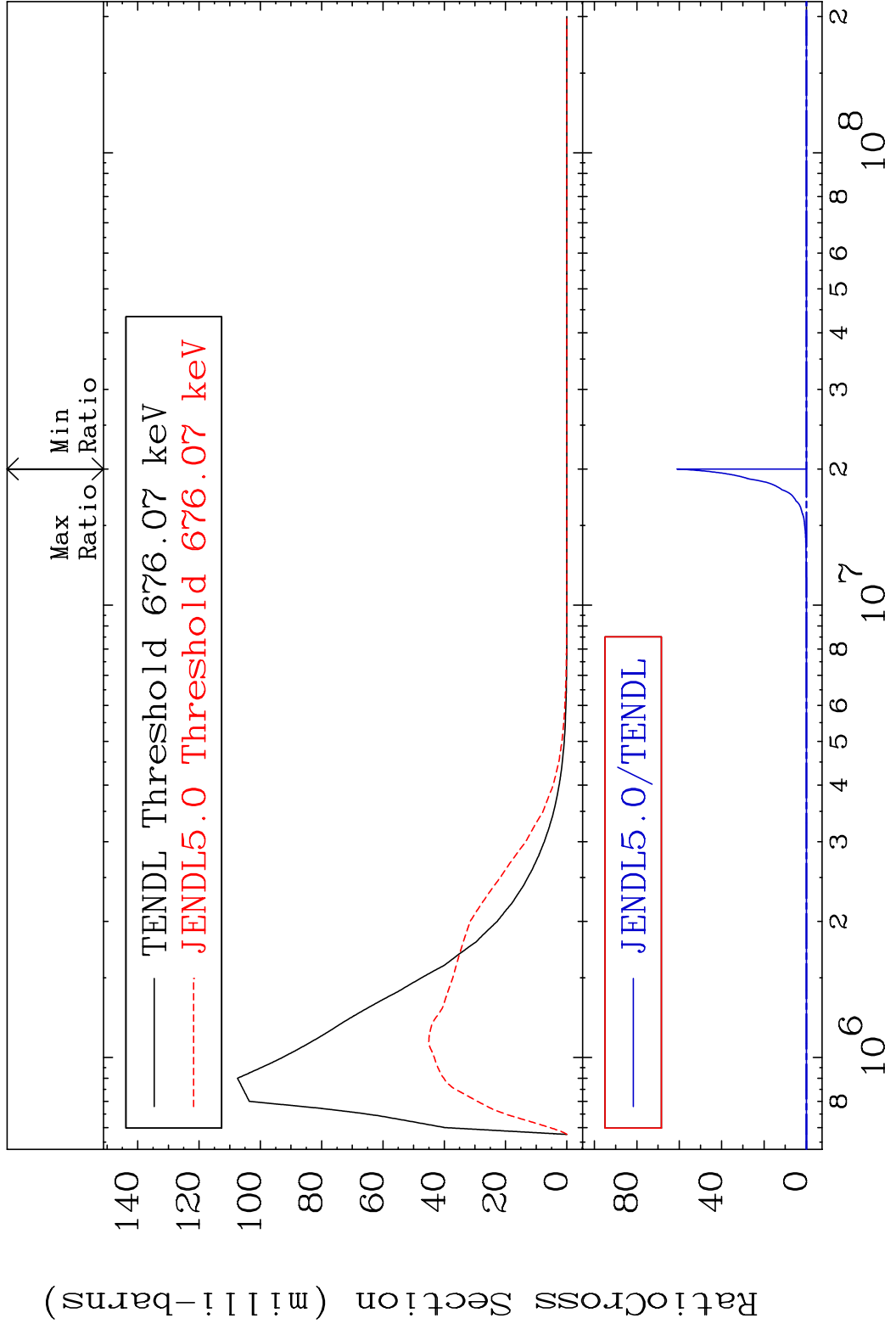
16 Incident Energy (eV) 43-Tc-97m

MAT 4320 MT= 55 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %



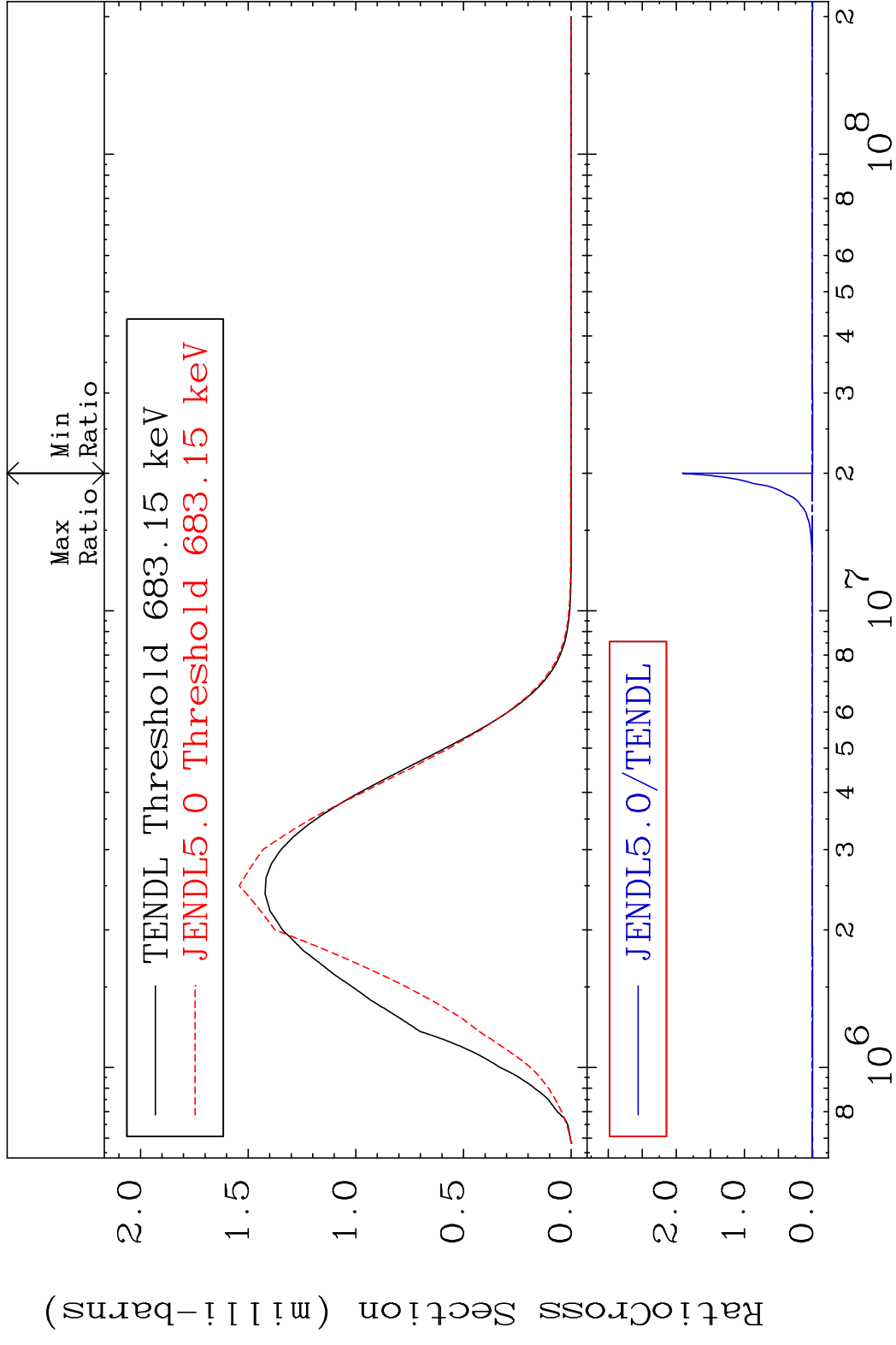
17 Incident Energy (eV) 43-Tc-97m

MAT 4320 MT= 56 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %

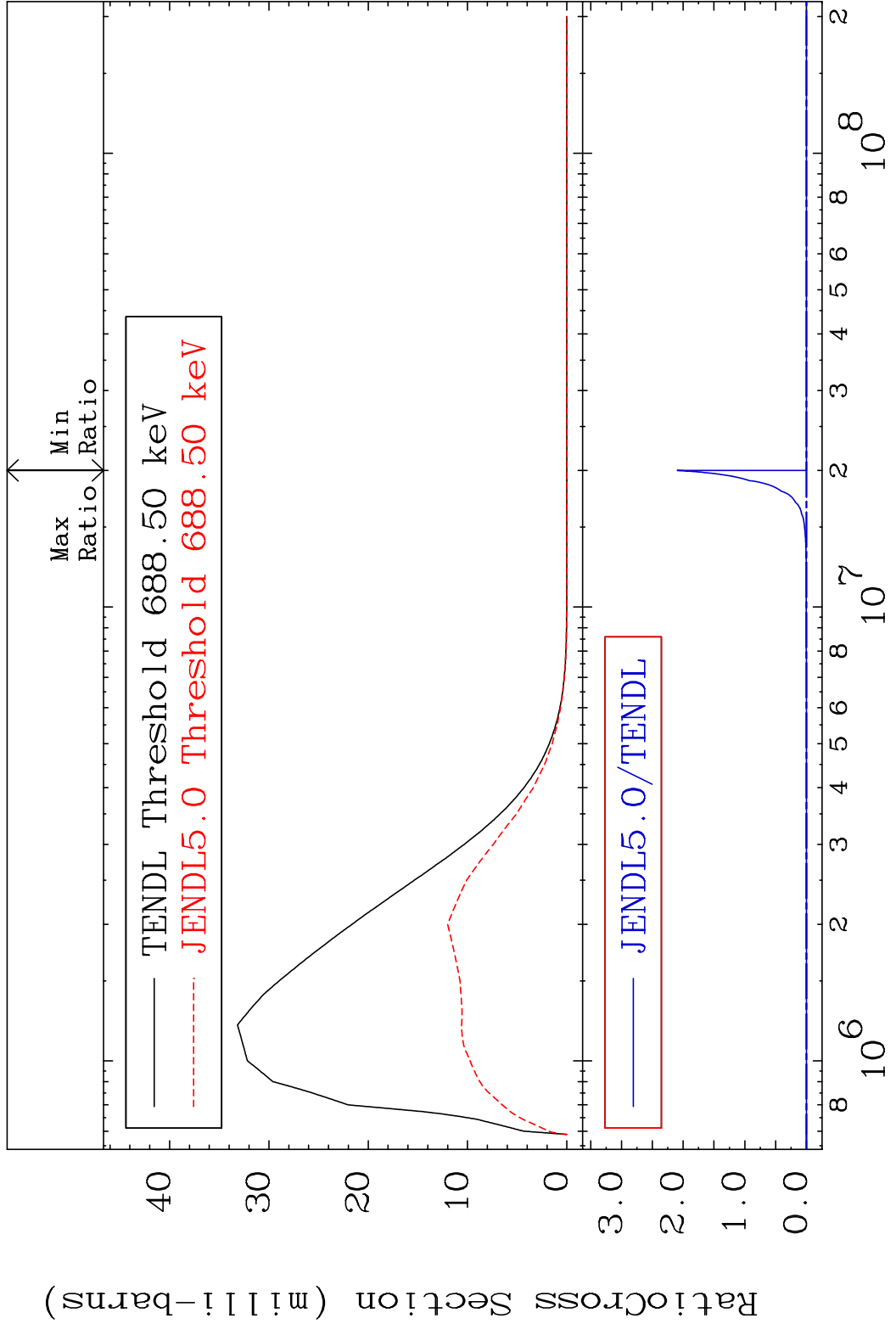


18 18 Incident Energy (eV) 43-Tc-97m

MAT 4320 MT= 57 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %

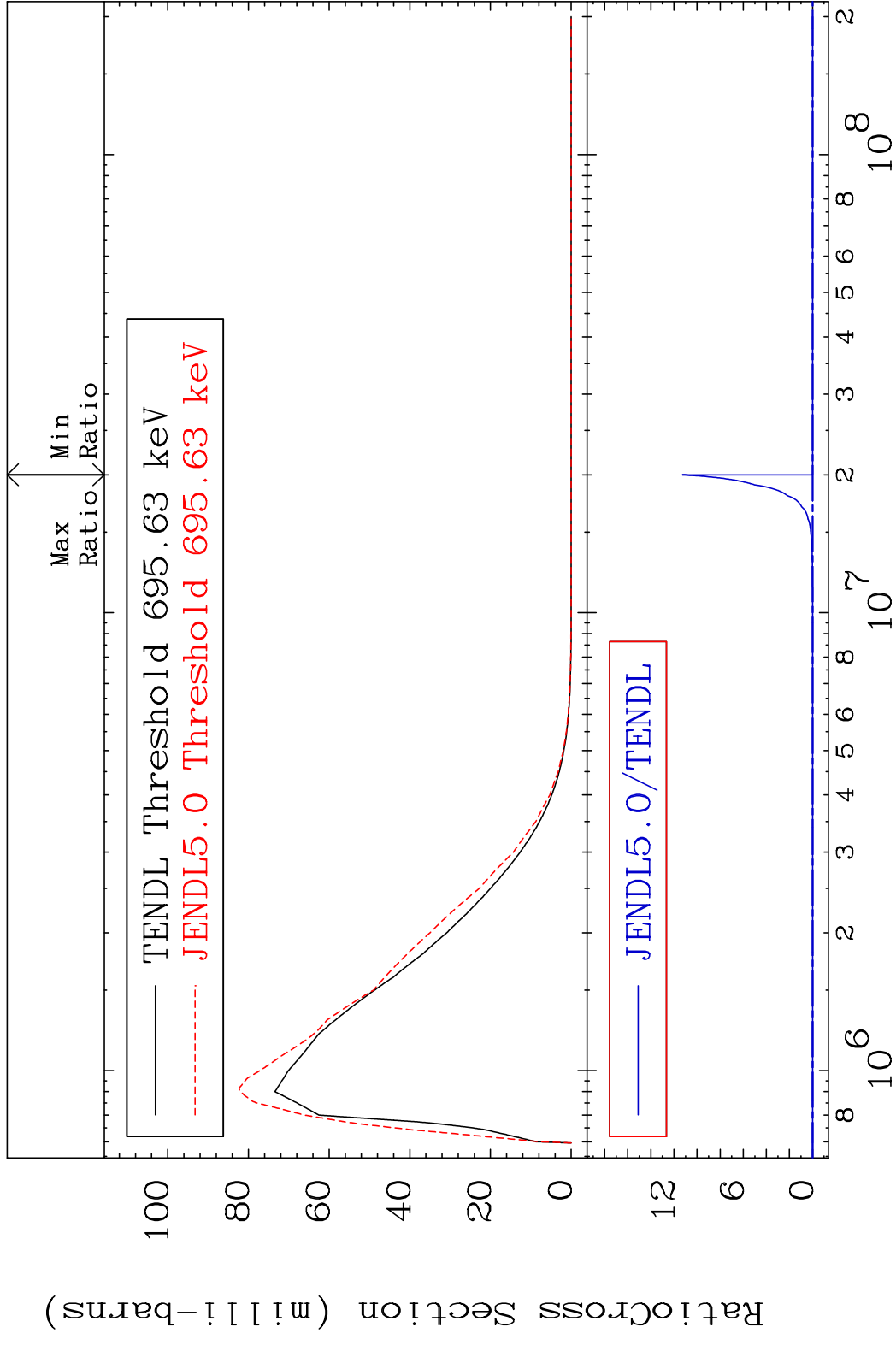


MAT 4320 MT= 58 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %



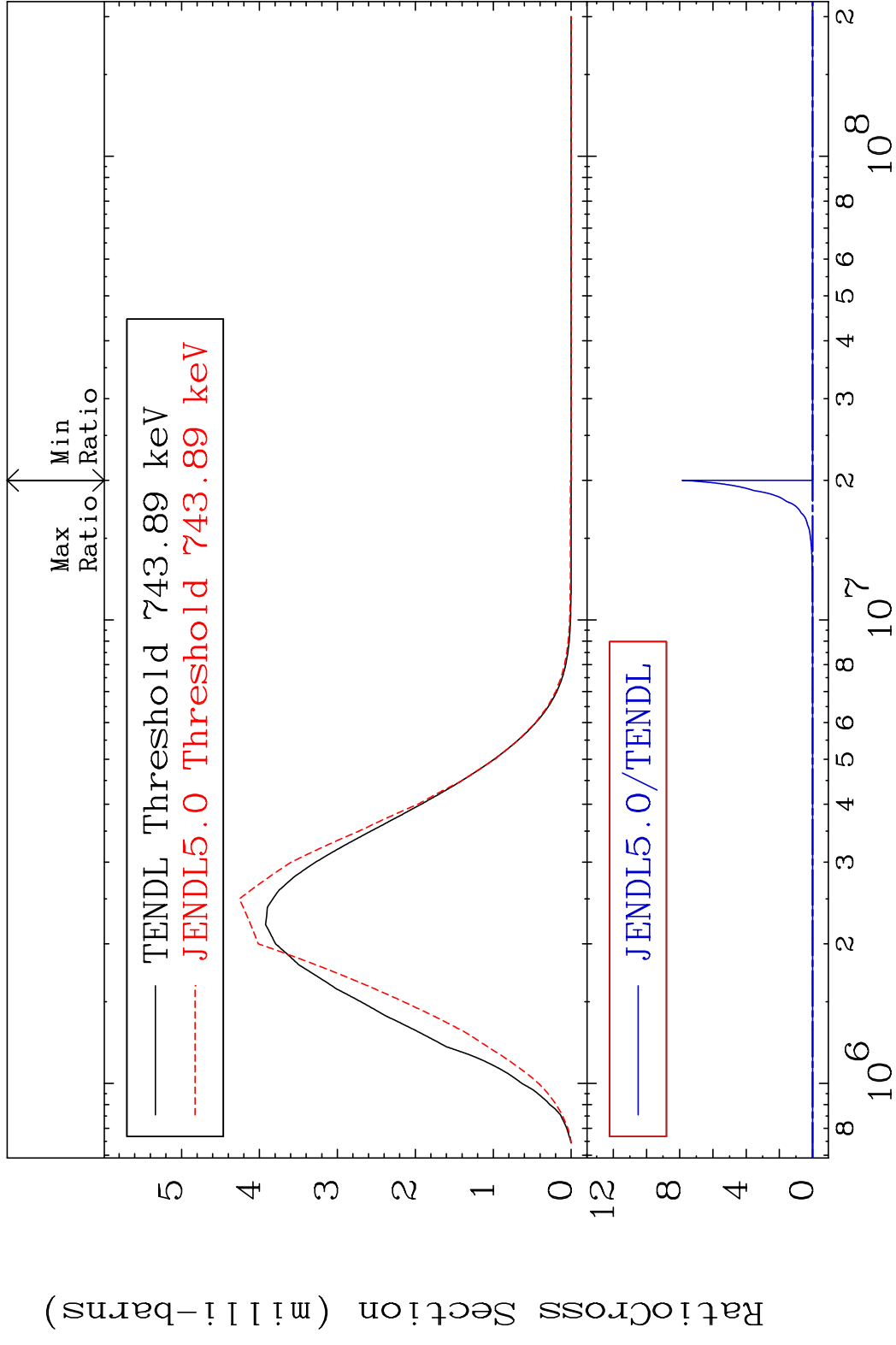
20

MAT 4320 MT= 59 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %



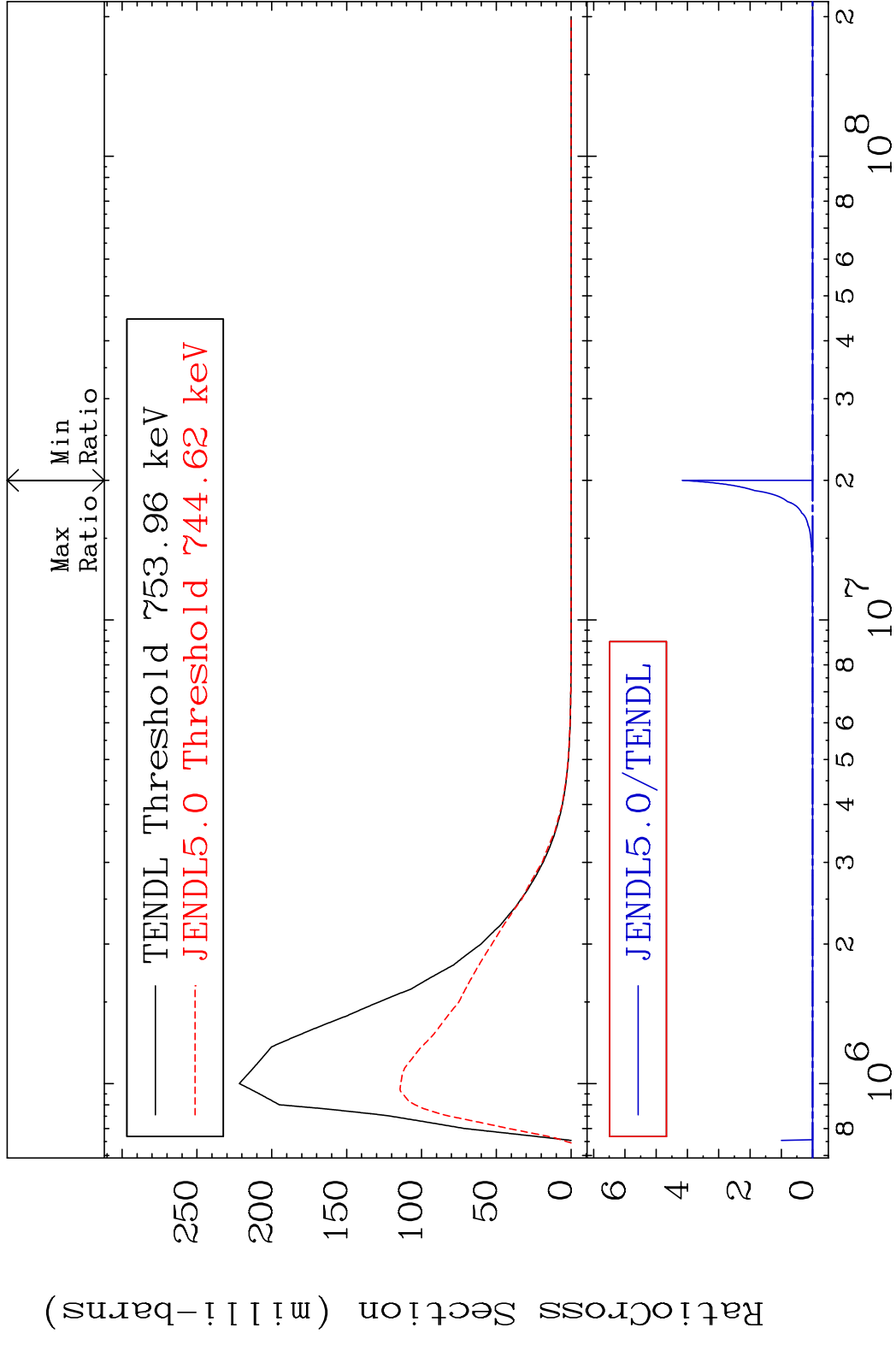
21 Incident Energy (eV) 43-Tc-97m

MAT 4320 MT= 60 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %



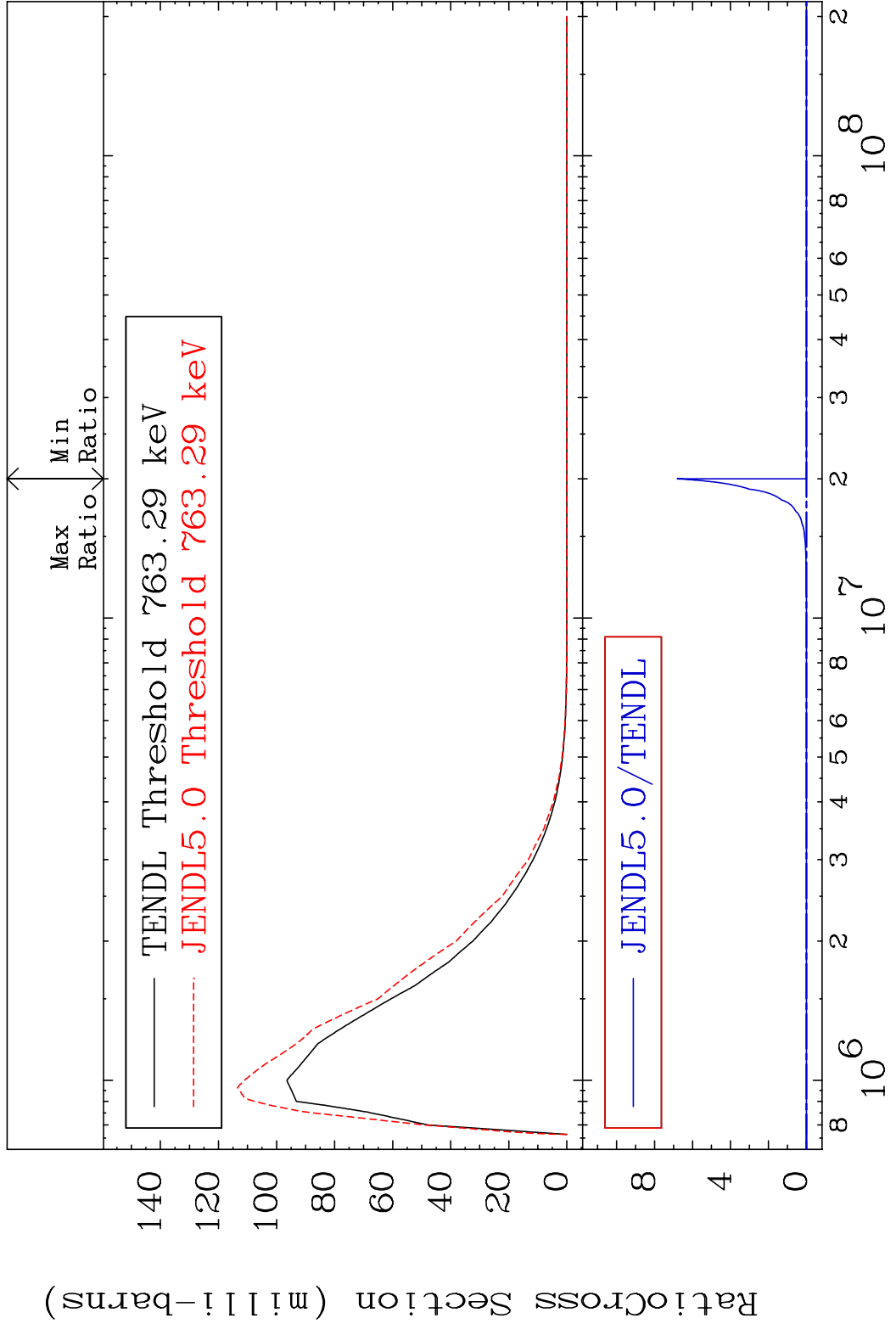
22 Incident Energy (eV) 43-Tc-97m

MAT 4320 MT= 61 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %



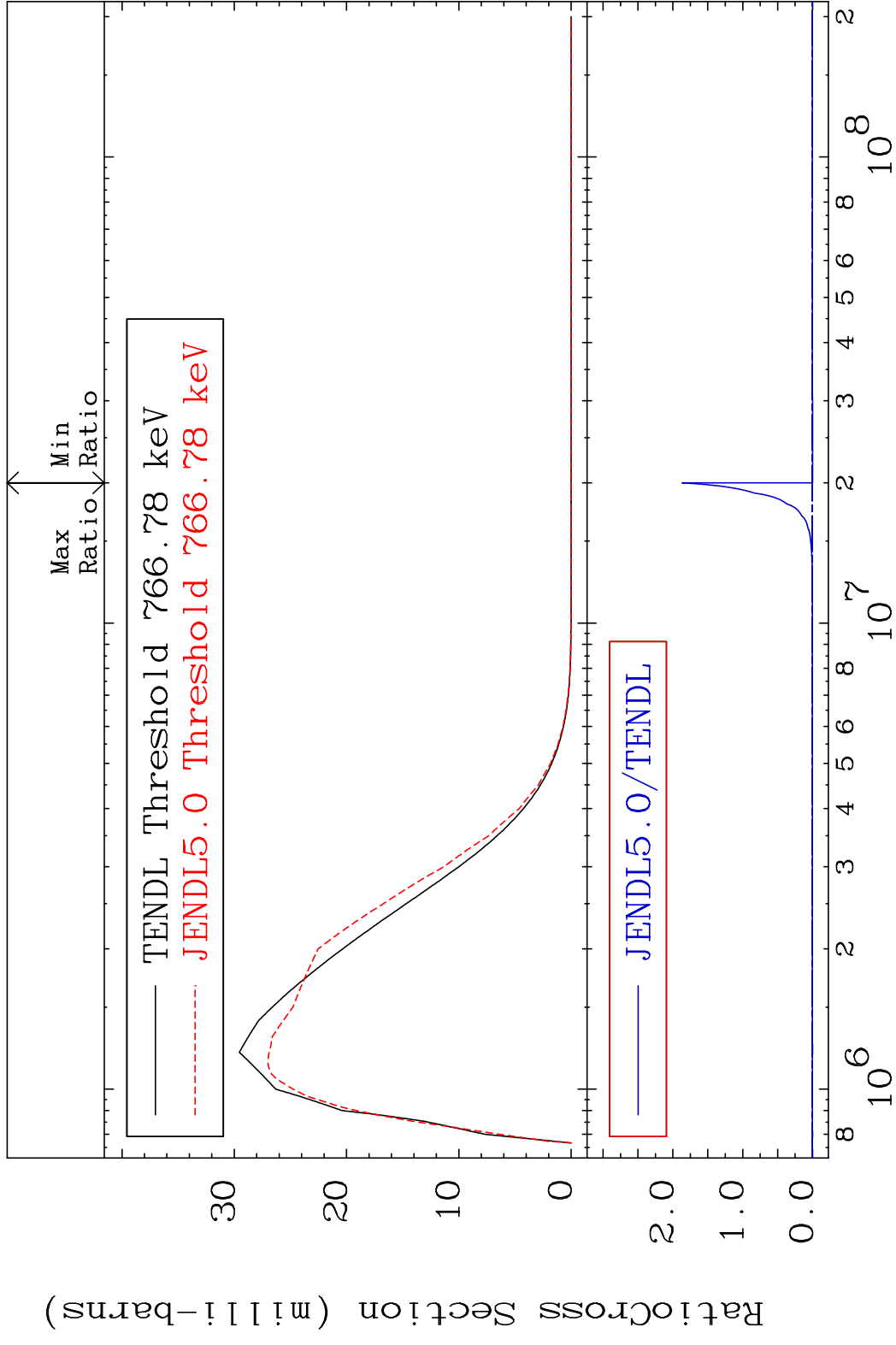
23 Incident Energy (eV) 43-Tc-97m

MAT 4320 MT= 62 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %



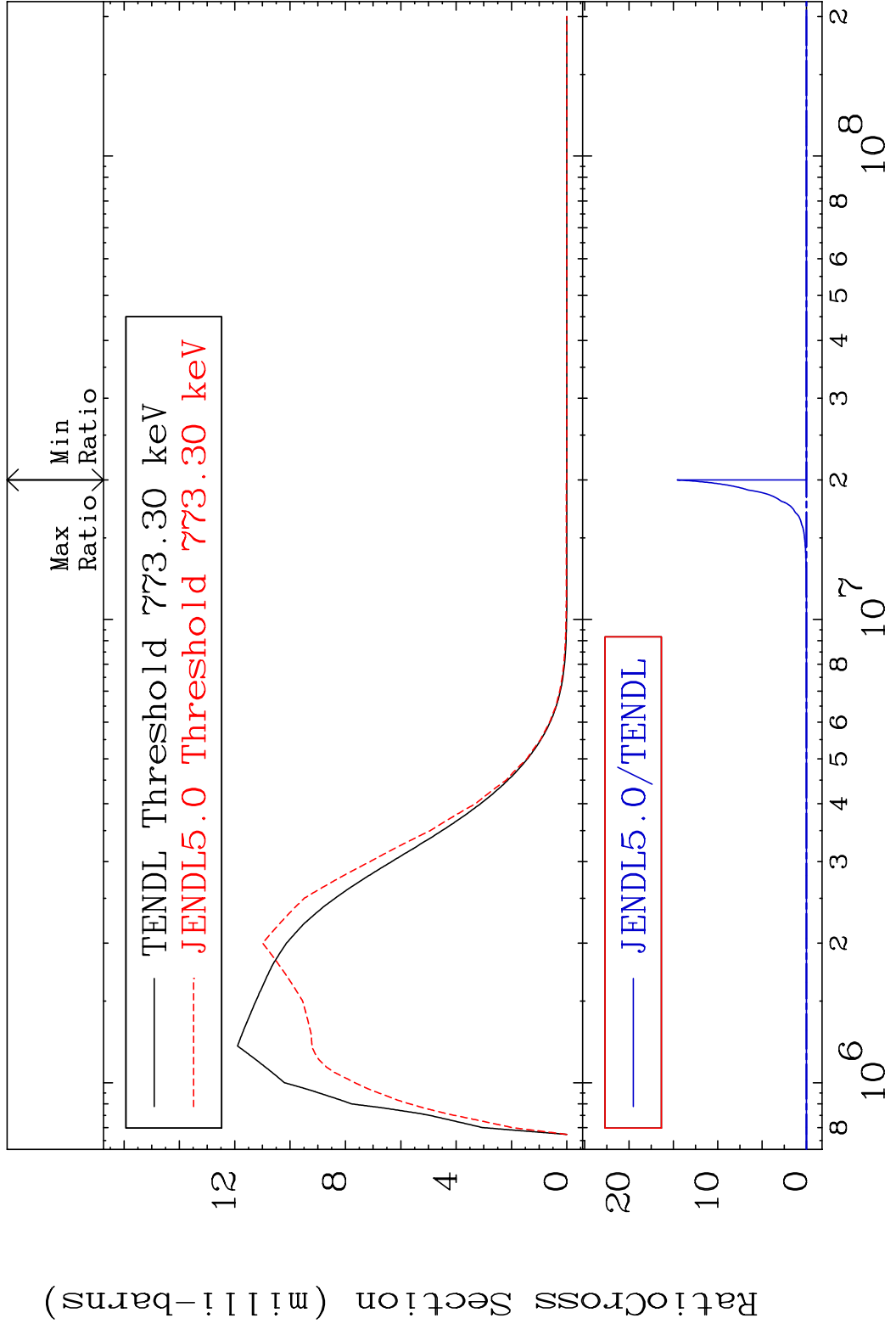
24 Incident Energy (eV) 43-Tc-97m

MAT 4320 MT= 63 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %



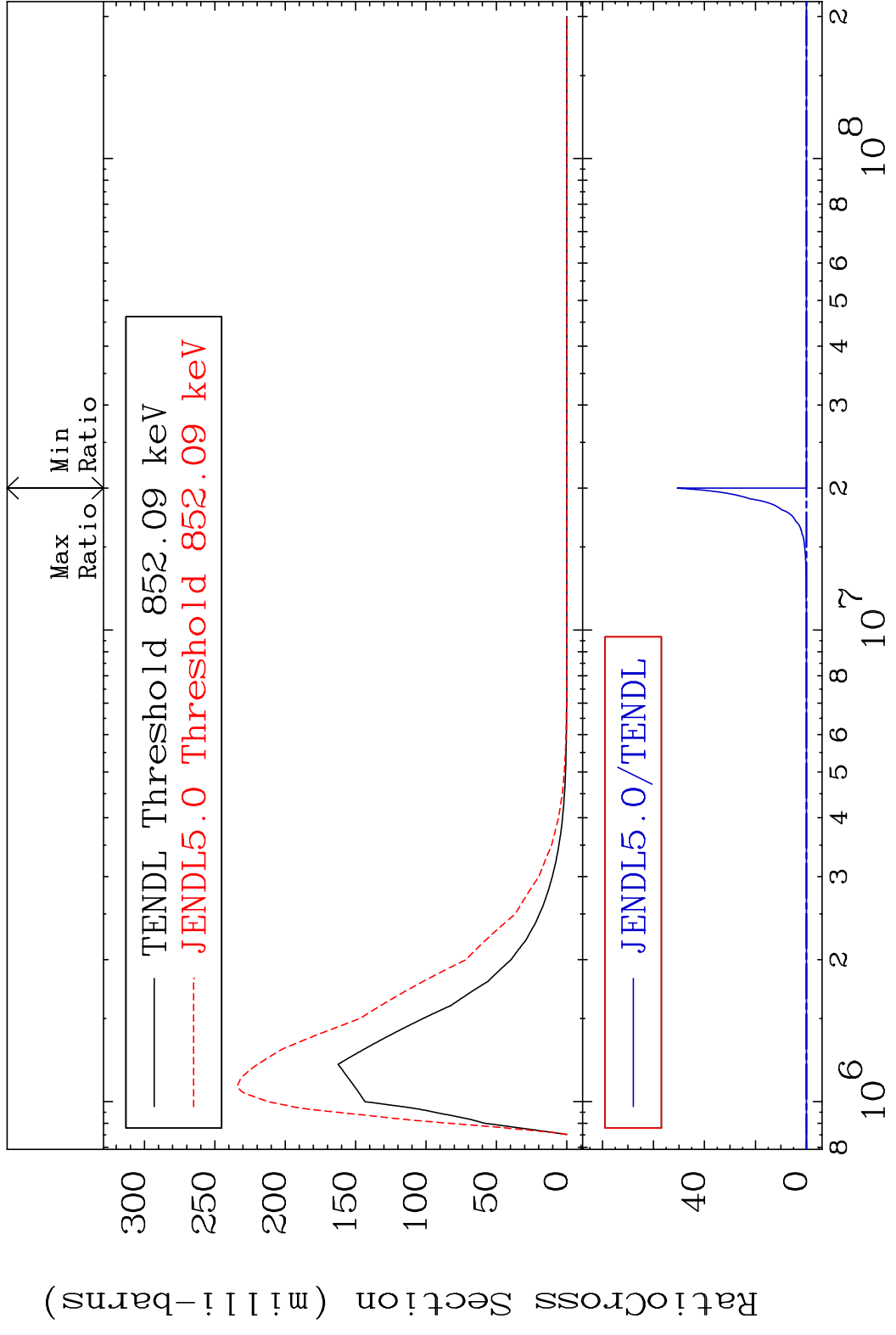
25 43-Tc-97m

MAT 4320 MT= 64 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %

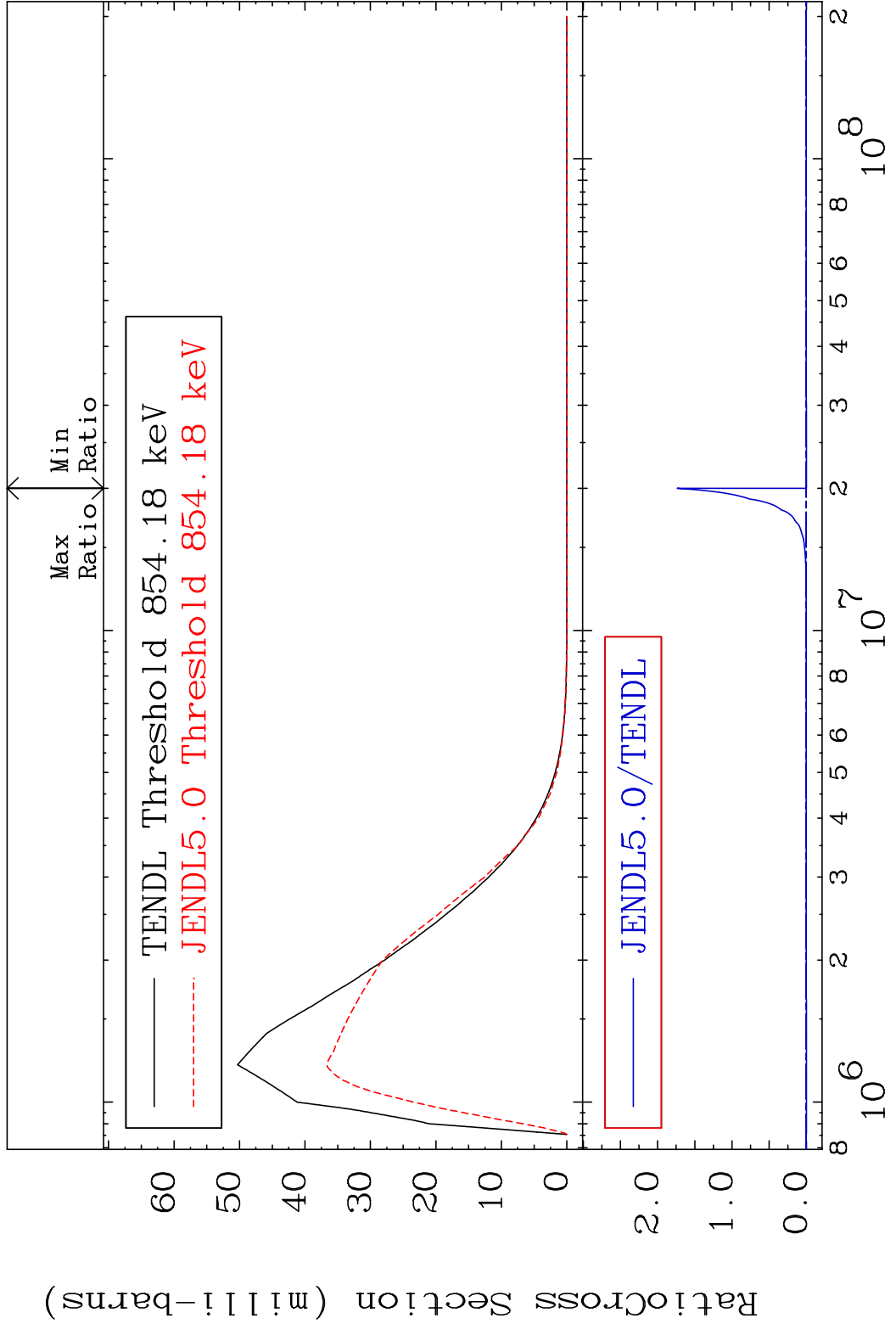


26 43-Tc-97m

MAT 4320 MT= 65 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %

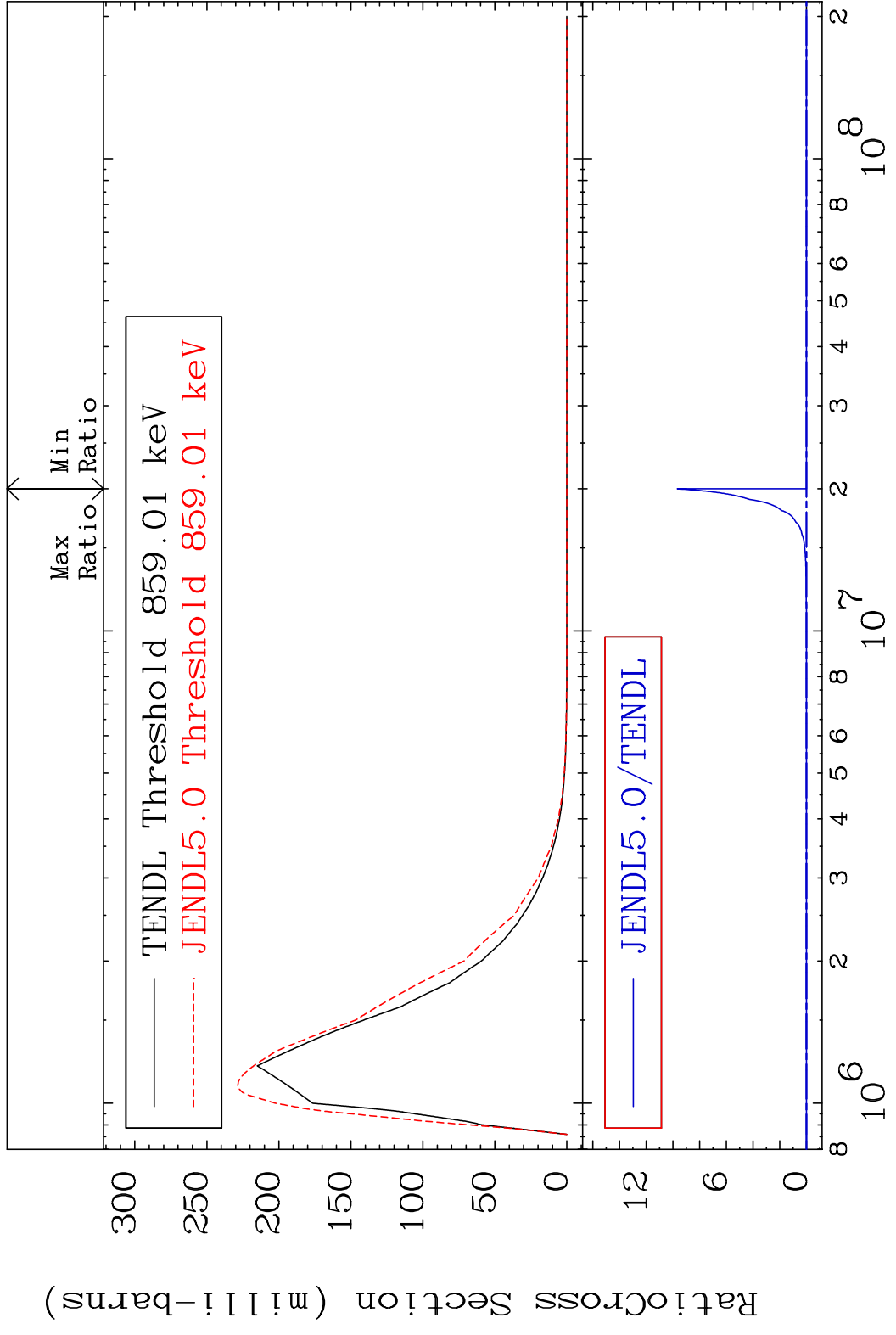


MAT 4320 MT= 66 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %



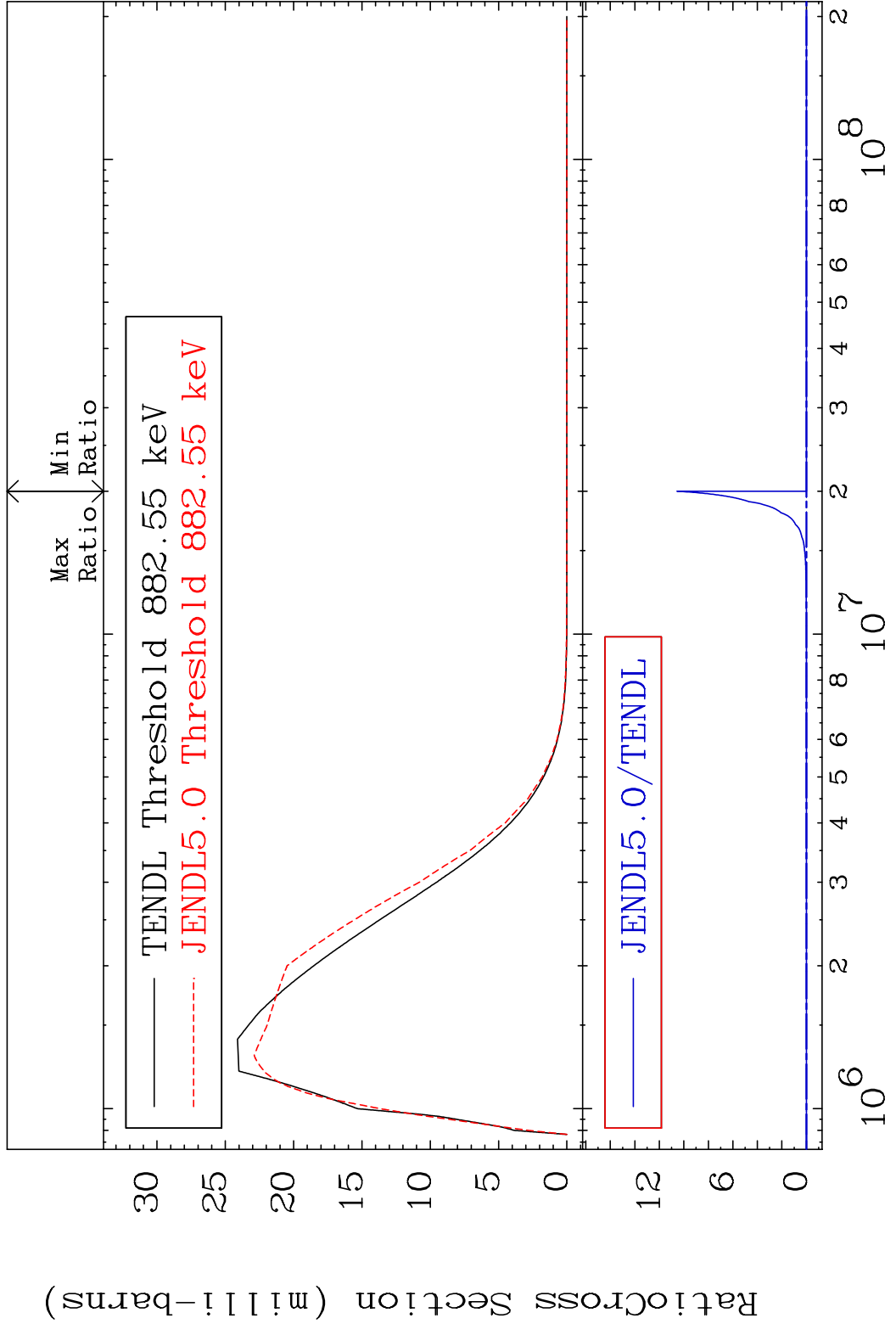
28 Incident Energy (eV) 43-Tc-97m

MAT 4320 MT= 67 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %



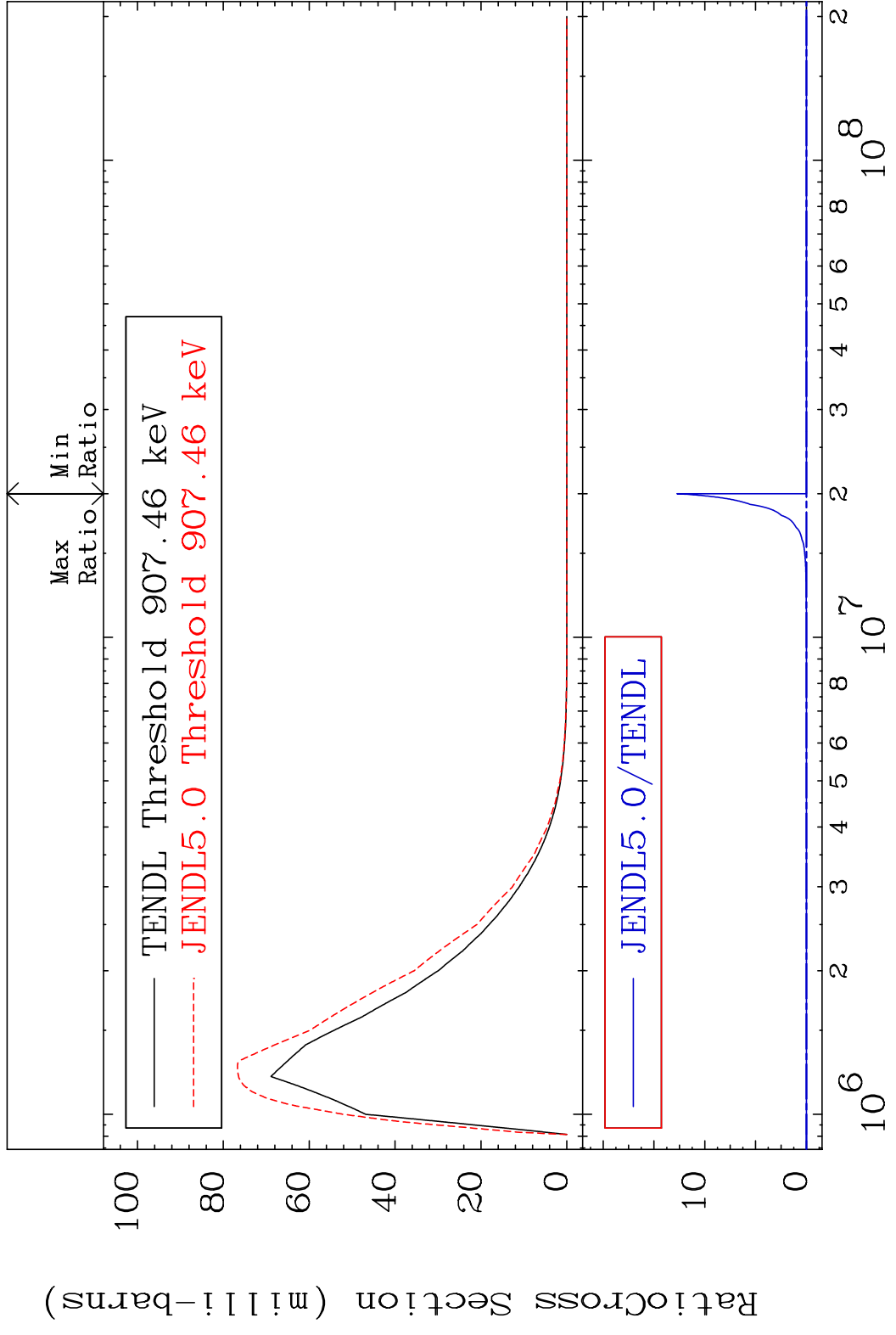
29 Incident Energy (eV) 43-Tc-97m

MAT 4320 MT= 68 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %



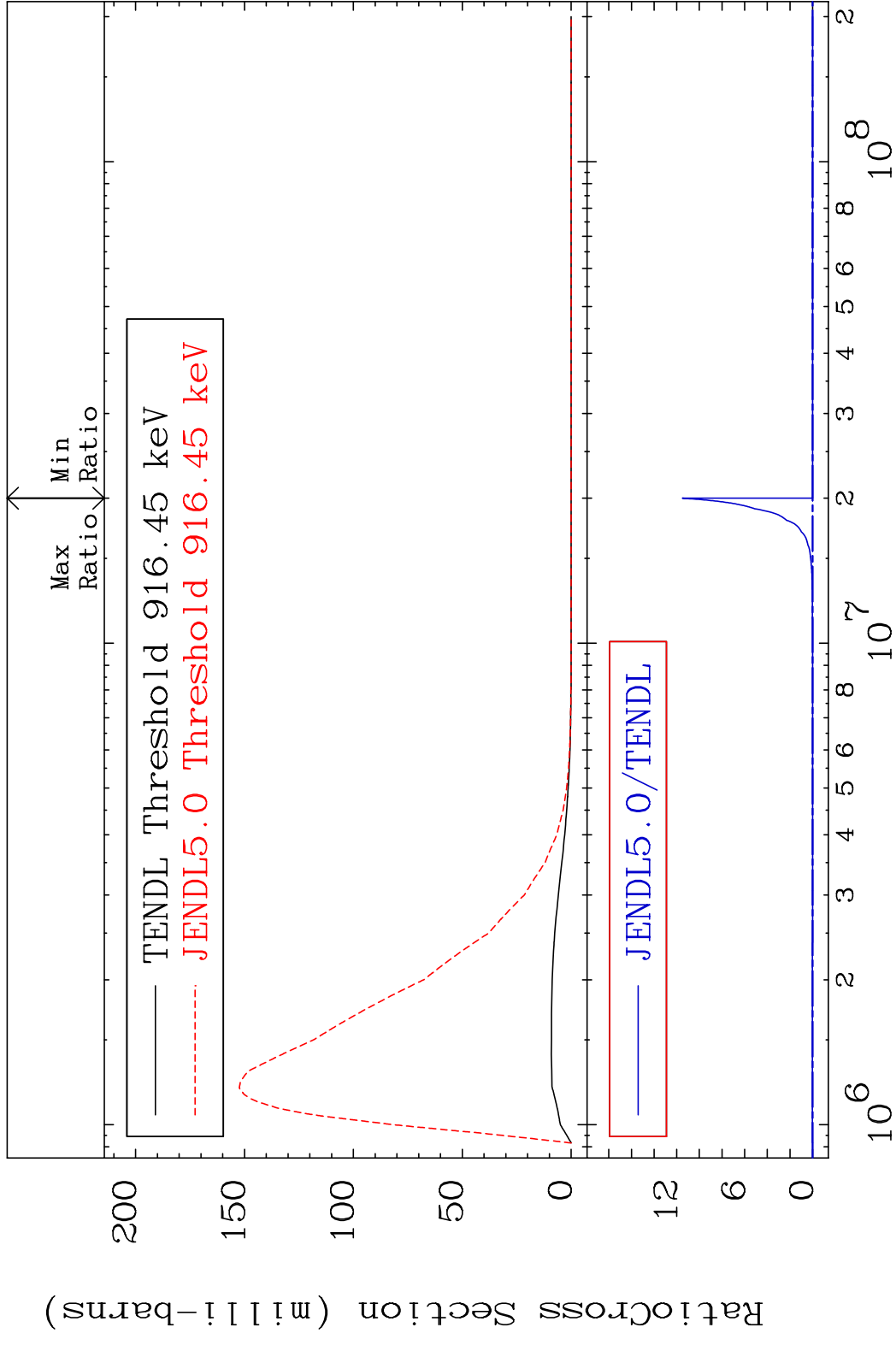
30 Incident Energy (eV) 43-Tc-97m

MAT 4320 MT= 69 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %

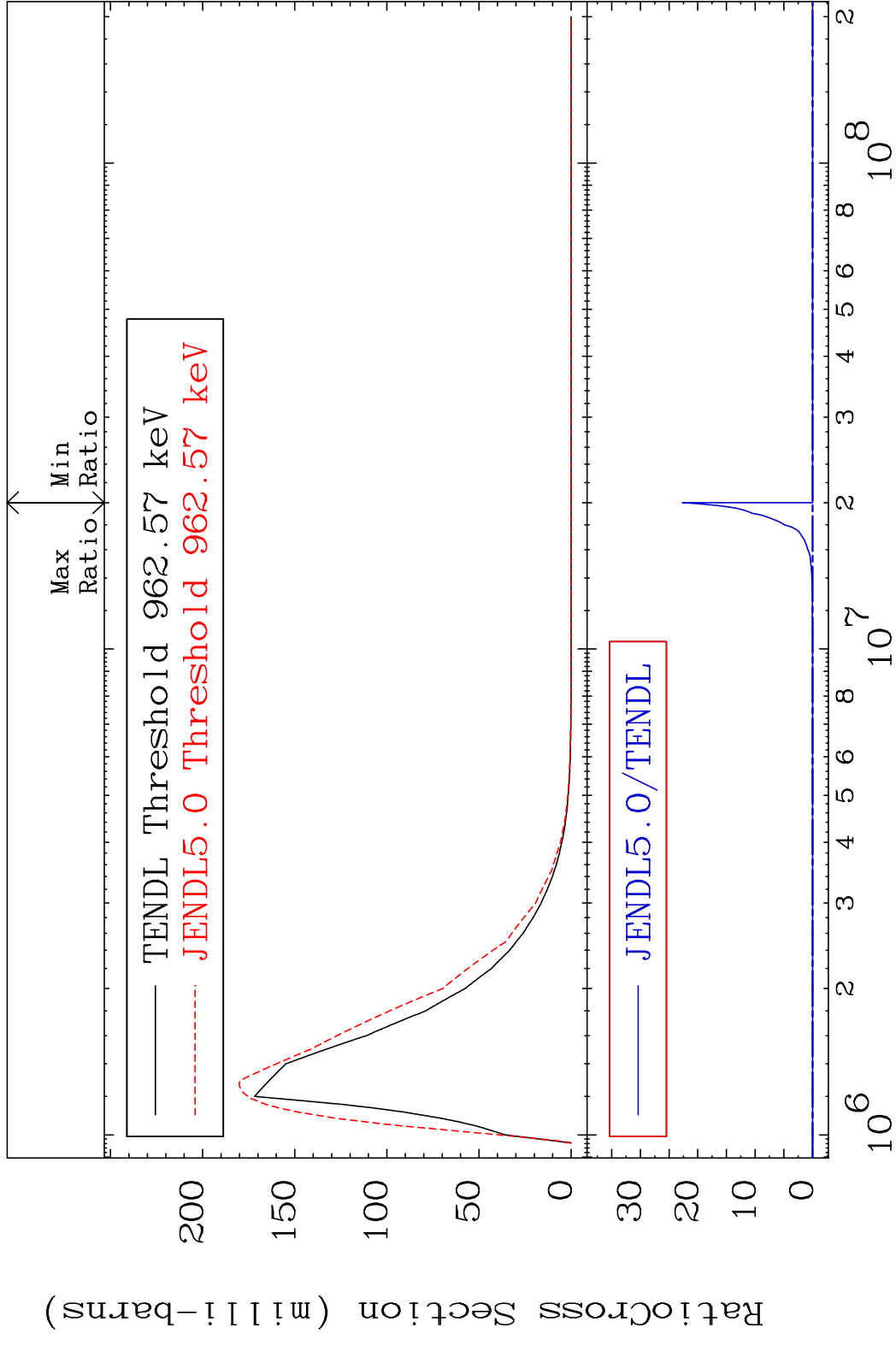


31 Incident Energy (eV) 43-Tc-97m

MAT 4320 MT= 70 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %

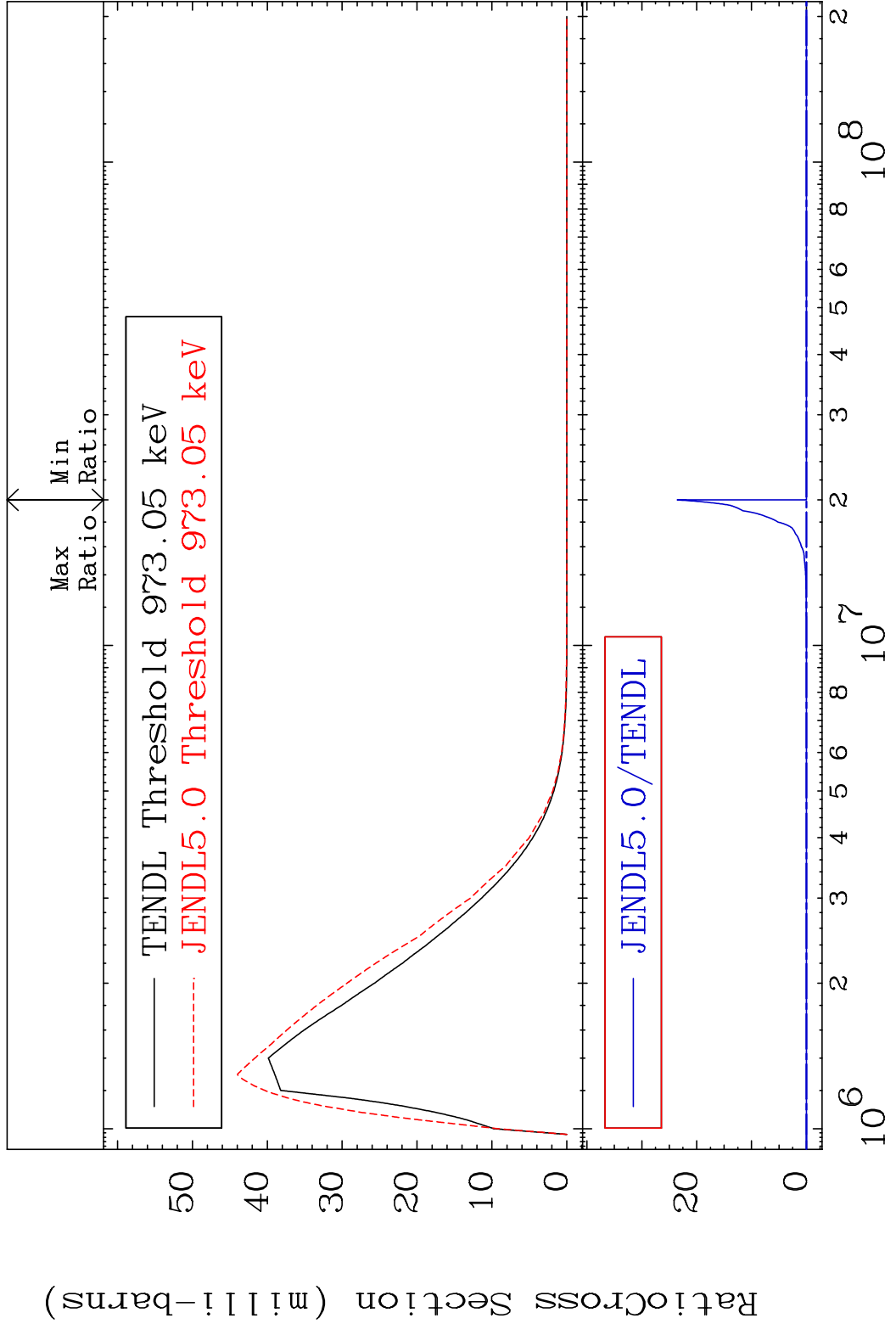


MAT 4320 MT= 71 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %



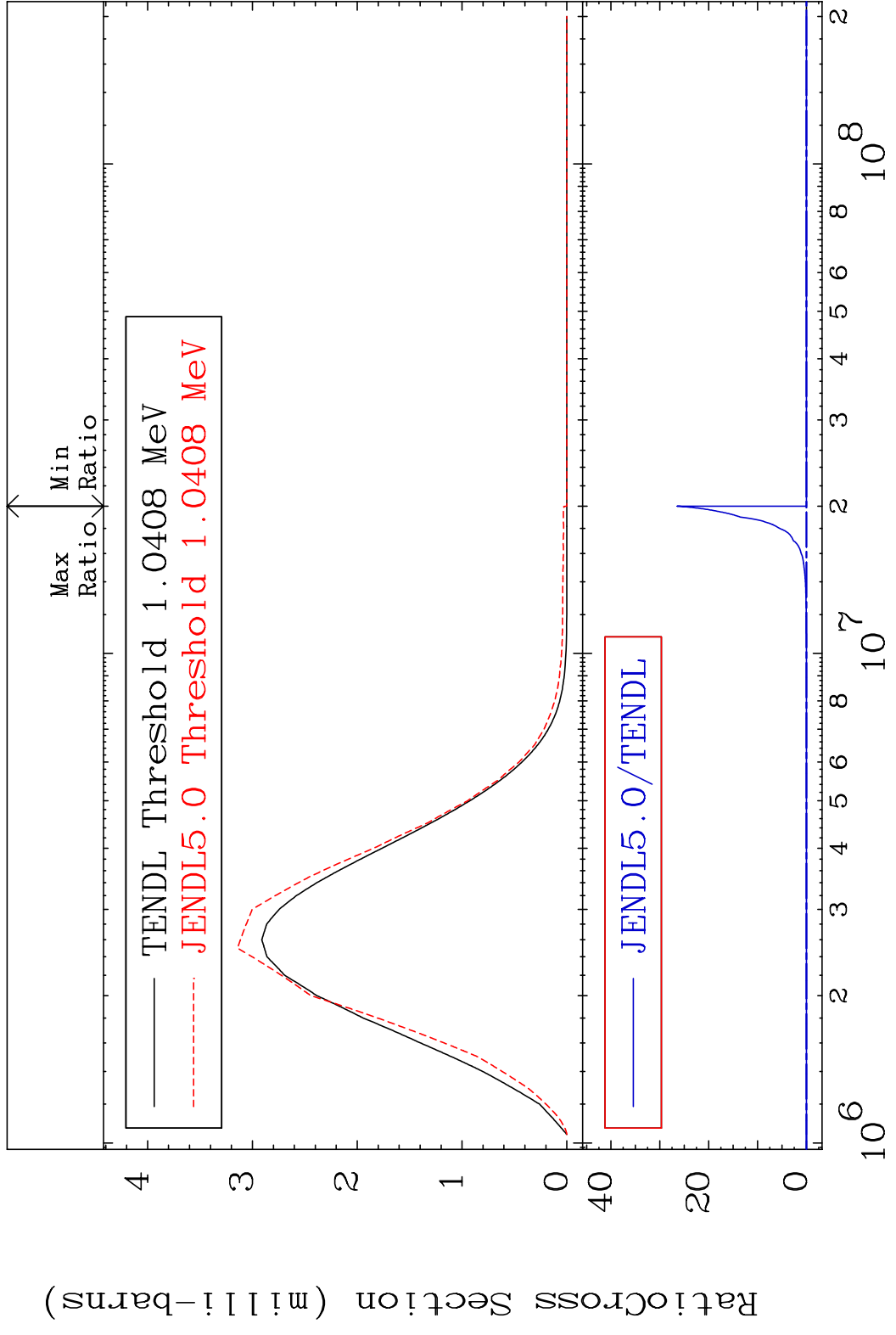
33 Incident Energy (eV) 43-Tc-97m

MAT 4320 MT= 72 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %



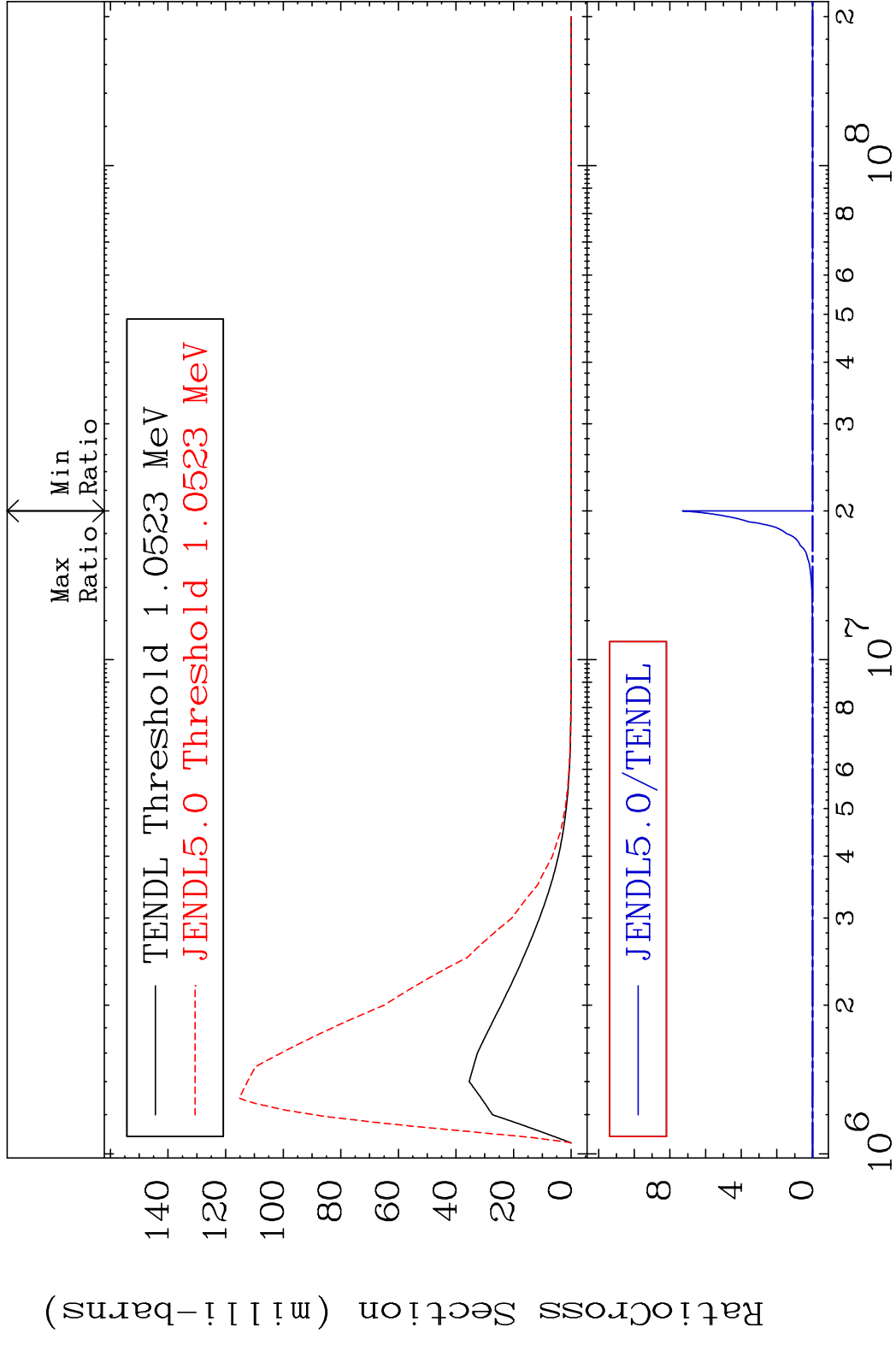
34 Incident Energy (eV) 43-Tc-97m

MAT 4320 MT= 73 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %



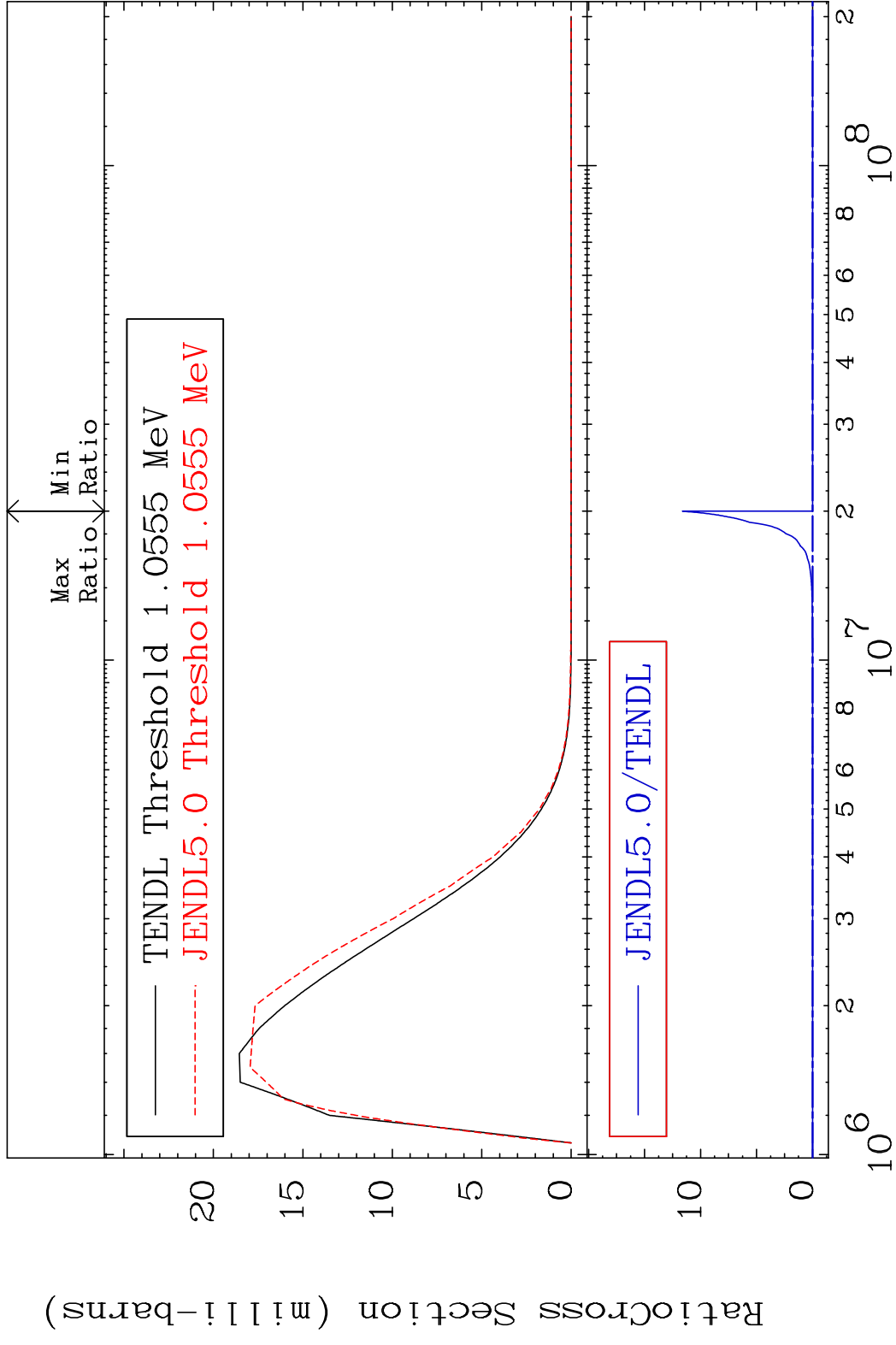
35 Incident Energy (eV) 43-Tc-97m

MAT 4320 MT= 74 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %



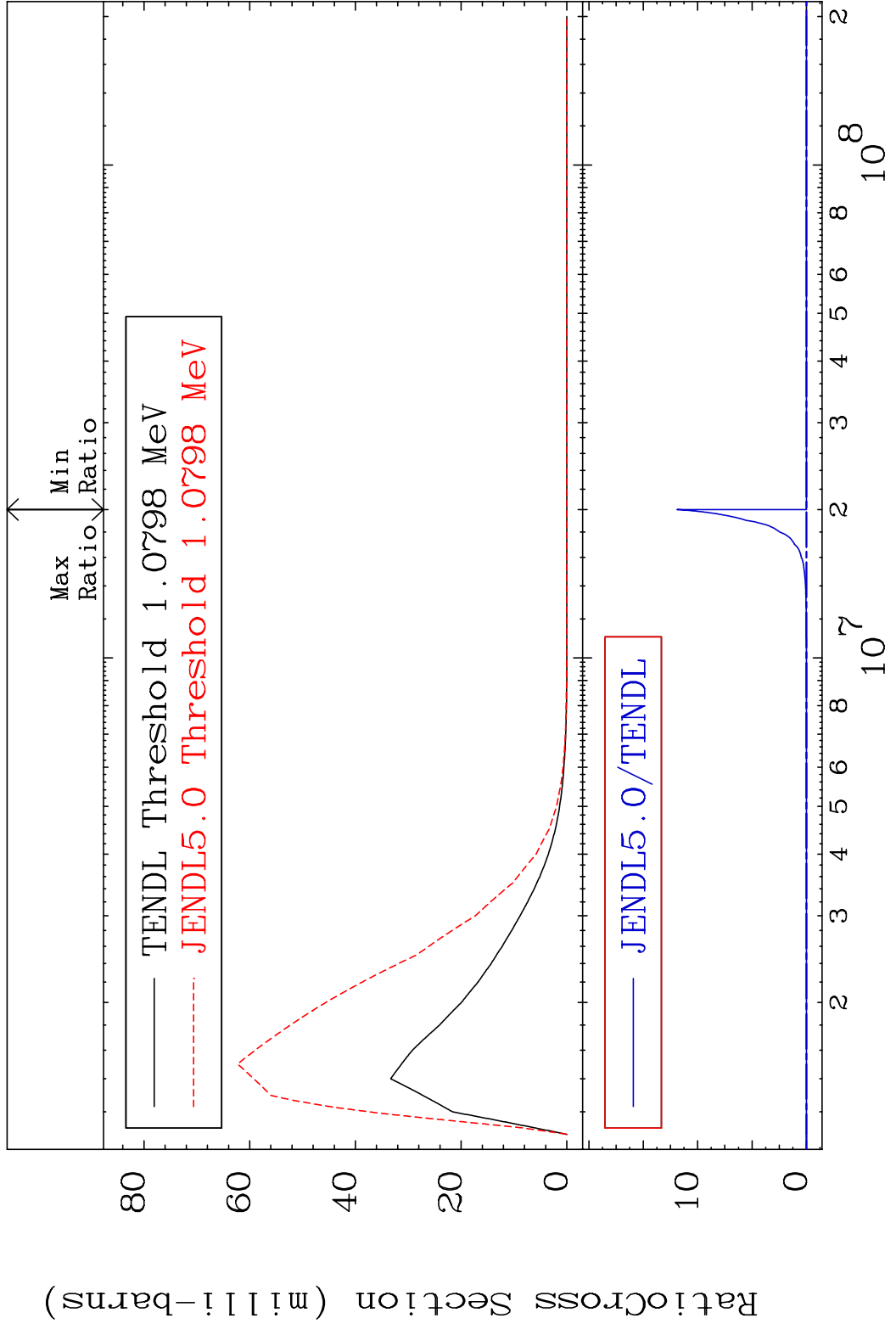
36 Incident Energy (eV) 43-Tc-97m

MAT 4320 MT= 75 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %

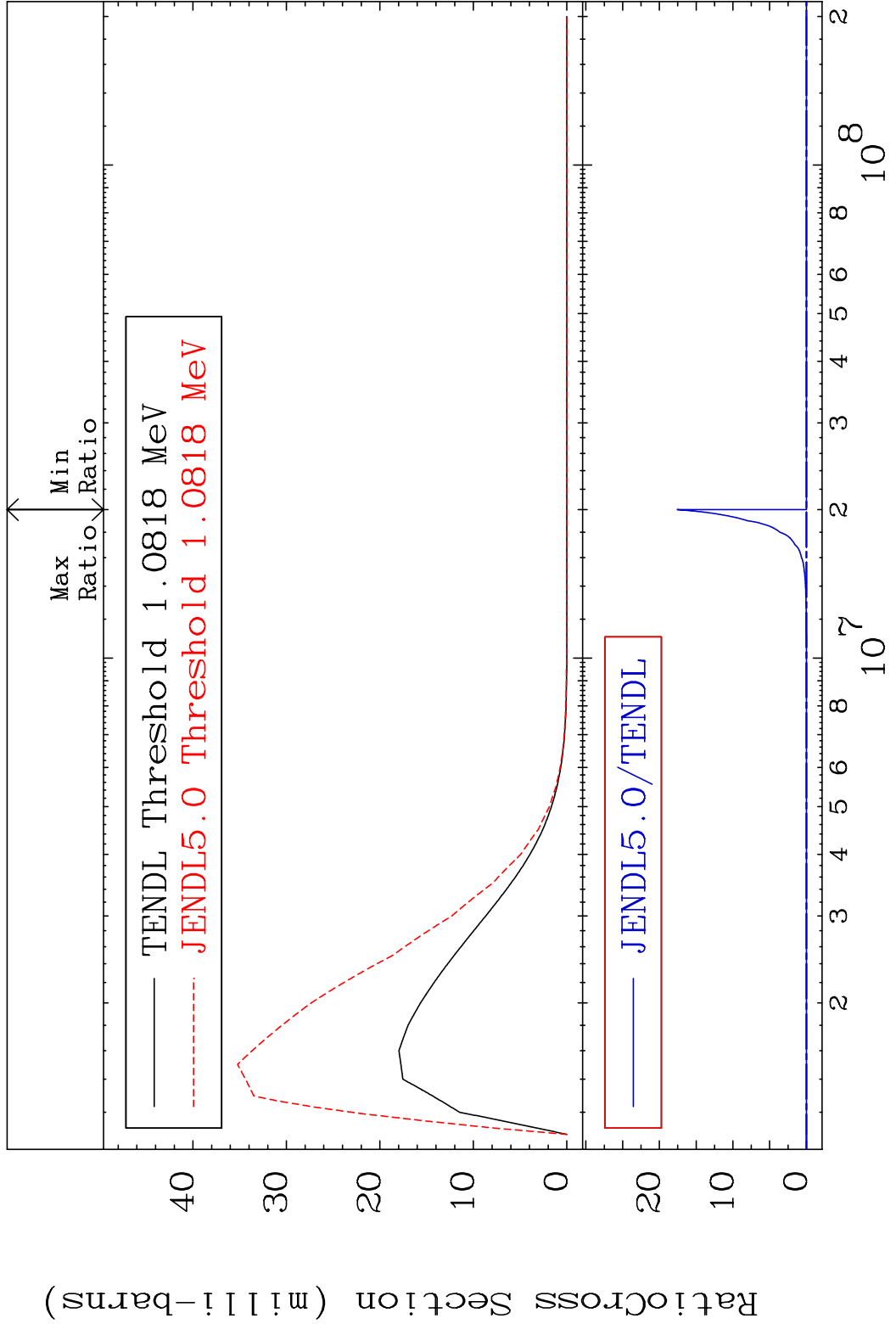


37 Incident Energy (eV) 43-Tc-97m

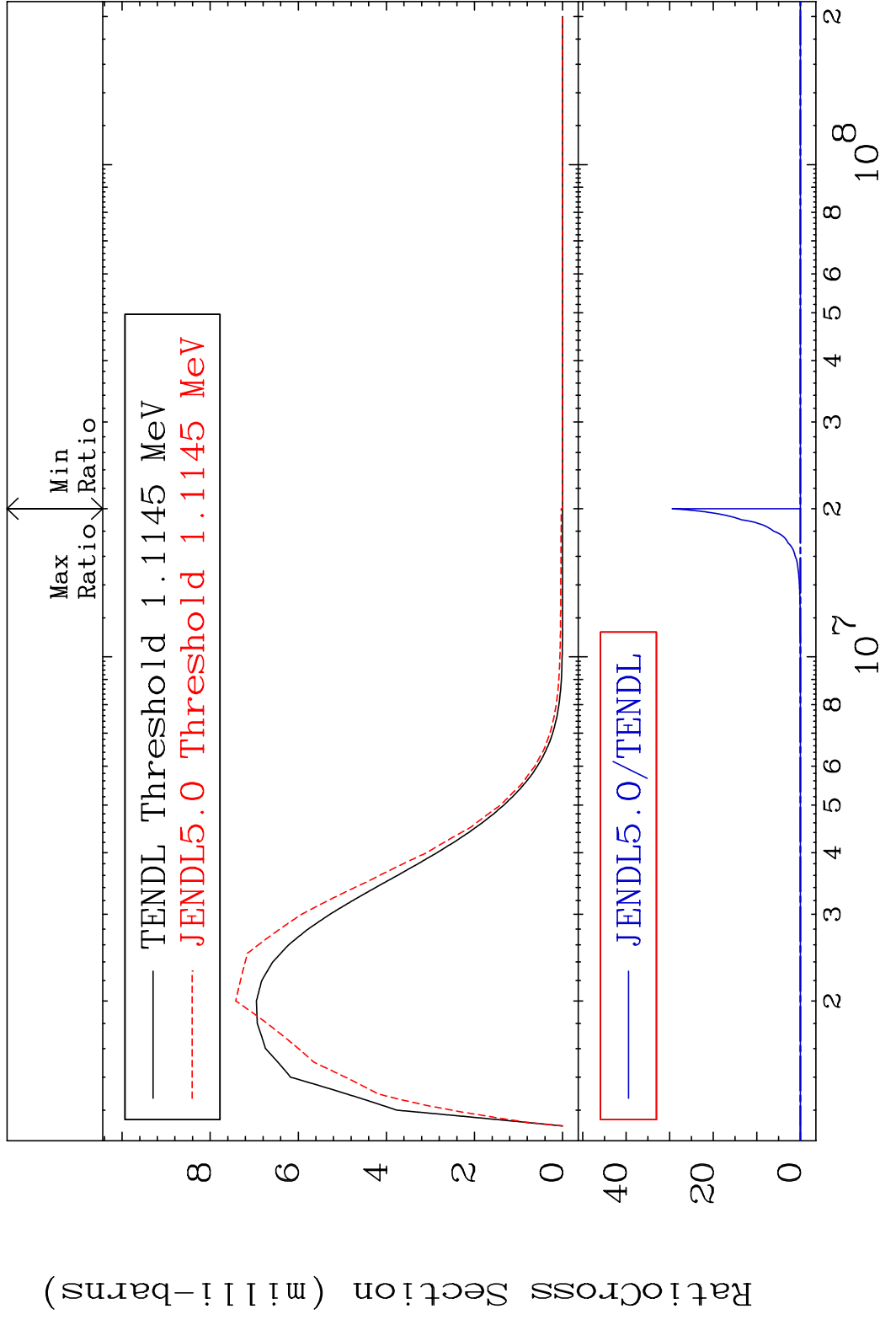
MAT 4320 MT= 76 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %



MAT 4320 MT= 77 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %

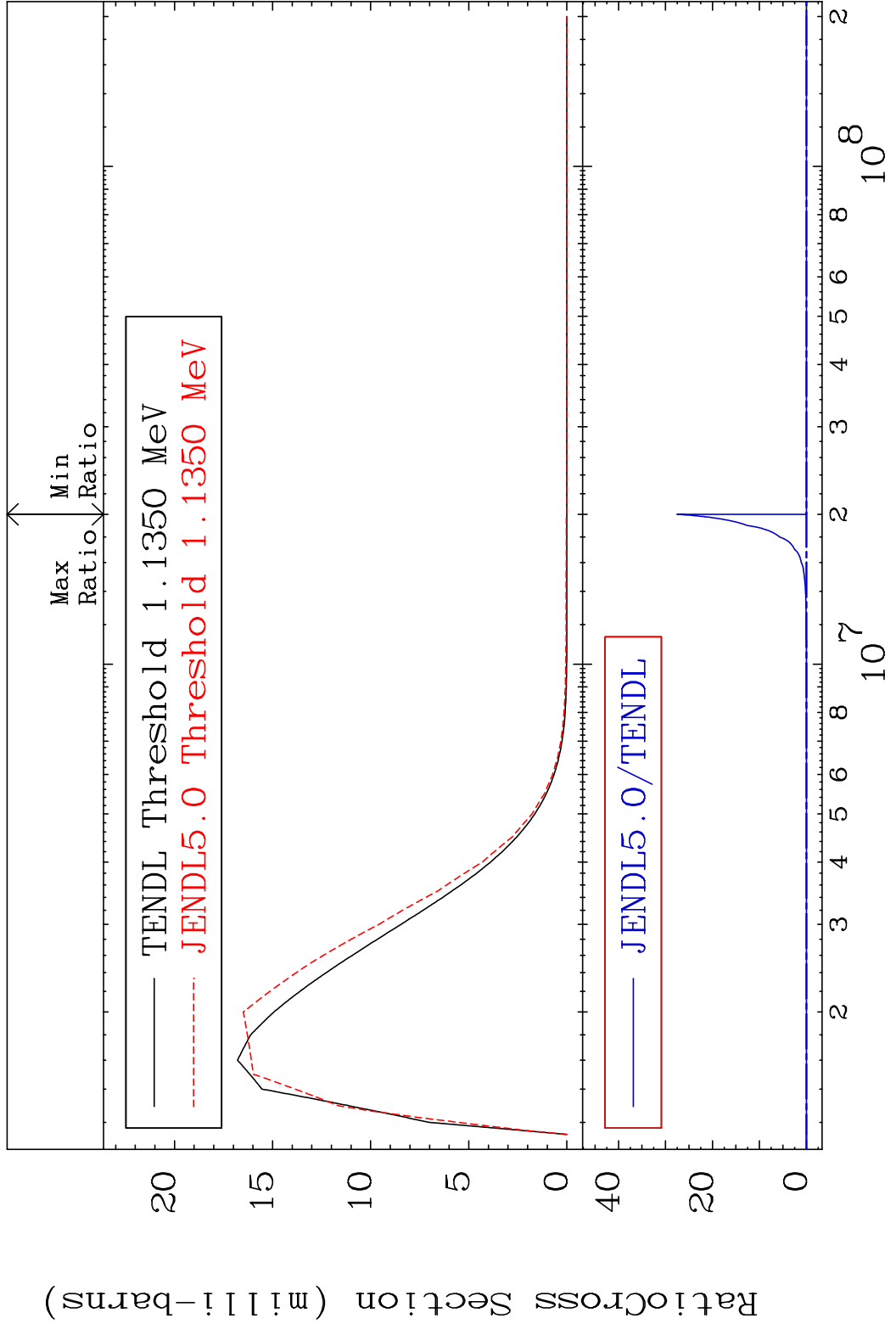


MAT 4320 MT= 78 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %

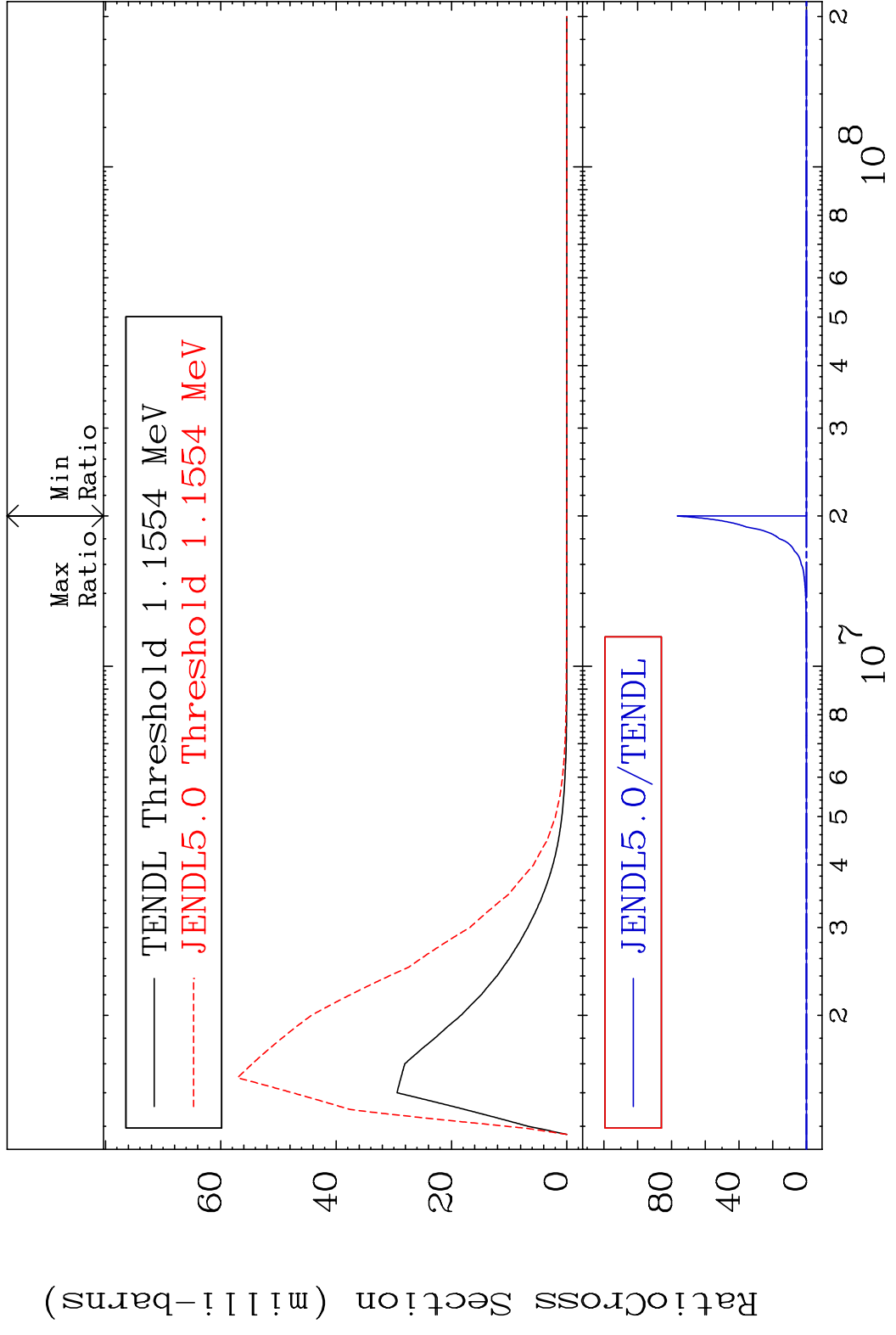


40 43-Tc-97m

MAT 4320 MT= 79 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %

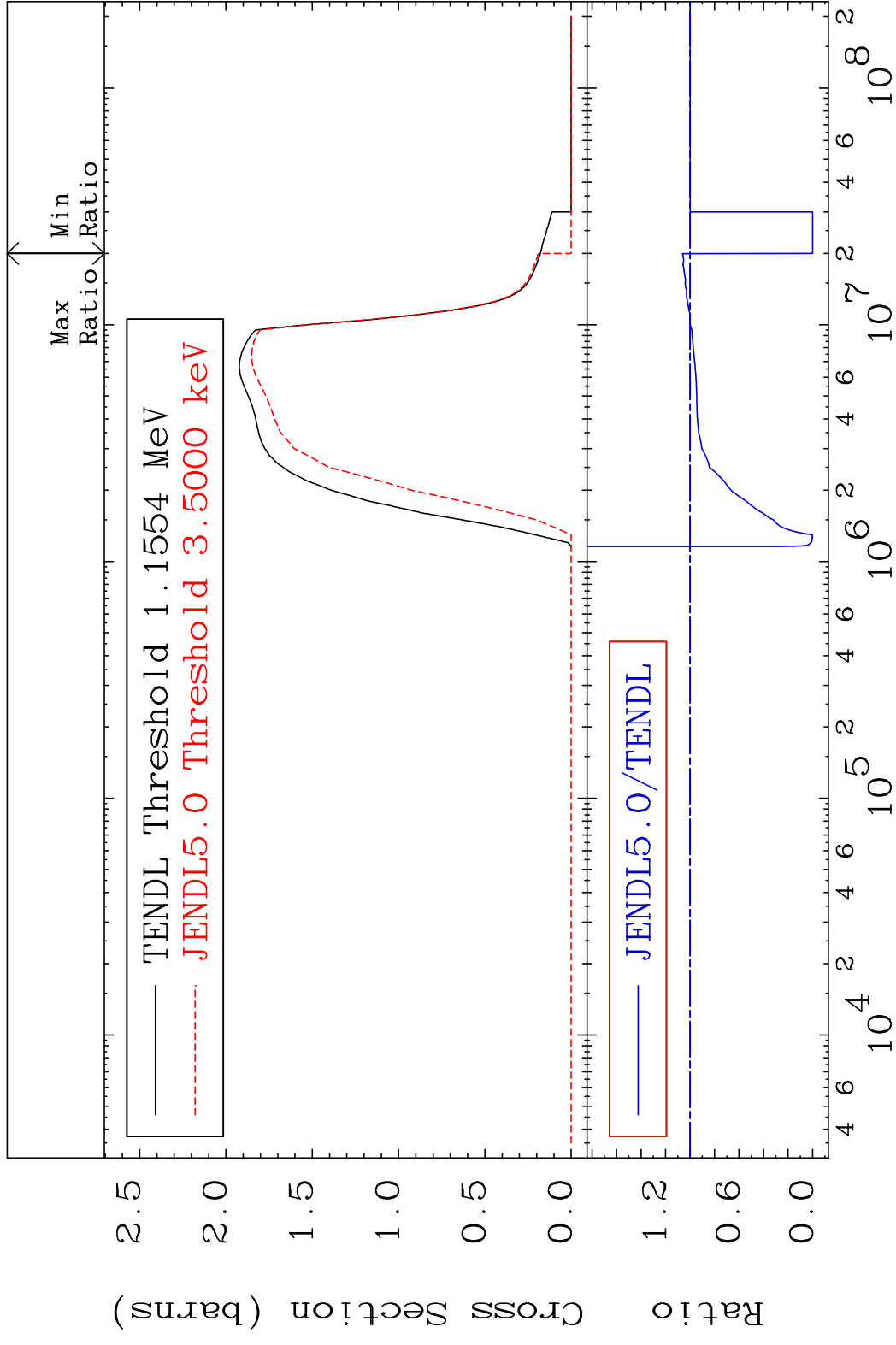


MAT 4320 MT= 80 (n, n') Level 43-Tc-97m
 Cross Section -100.0 To 9999. %



42 Incident Energy (eV) 43-Tc-97m

MAT 4320 (n,n') Continuum 43-Tc-97m
 Cross Section -100.0 To 6.277 %



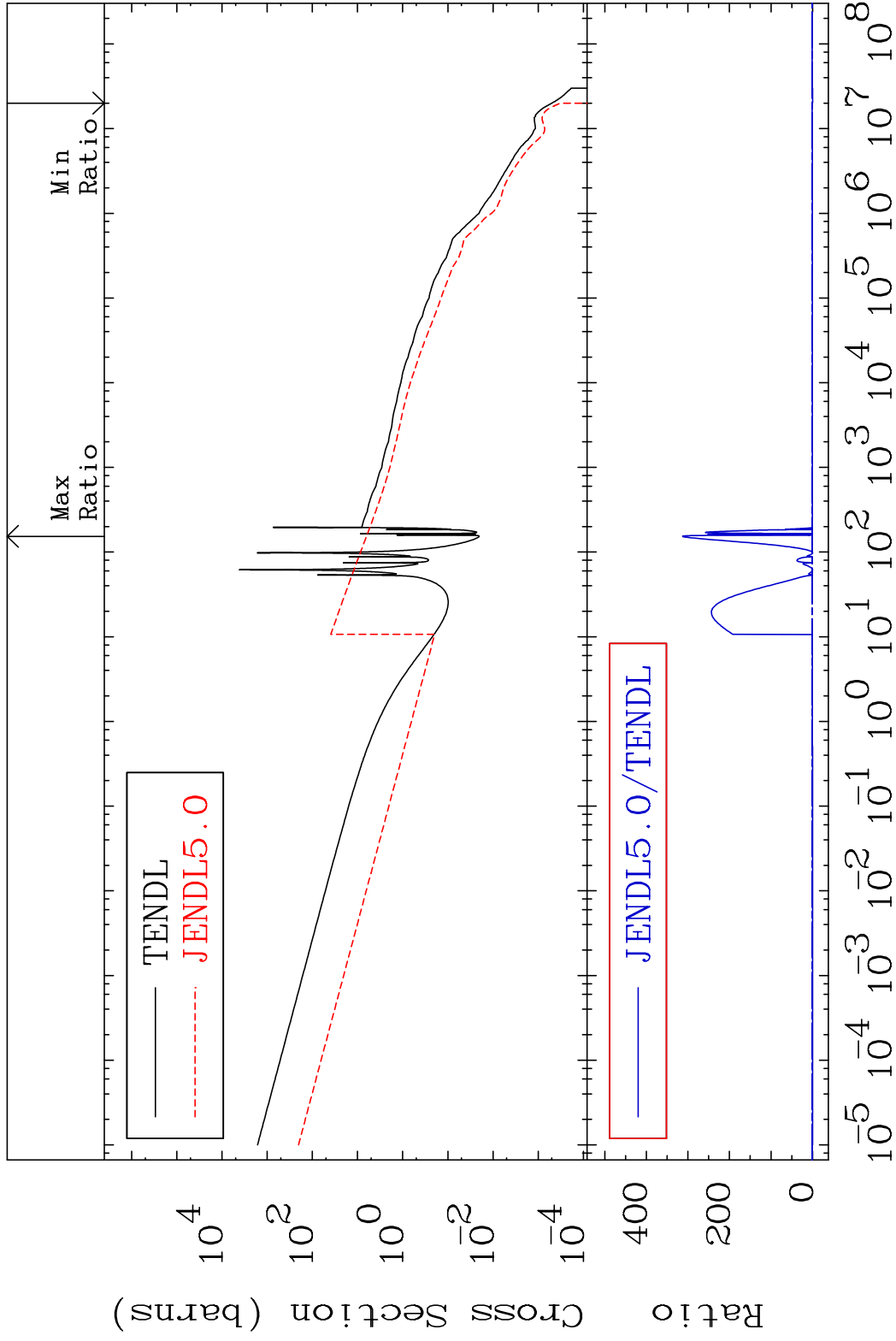
43 Incident Energy (eV) 43-Tc-97m

MAT 4320

(n, γ)

43-Tc-97m

Cross Section -100.0 To 9999. %



44

Incident Energy (eV)

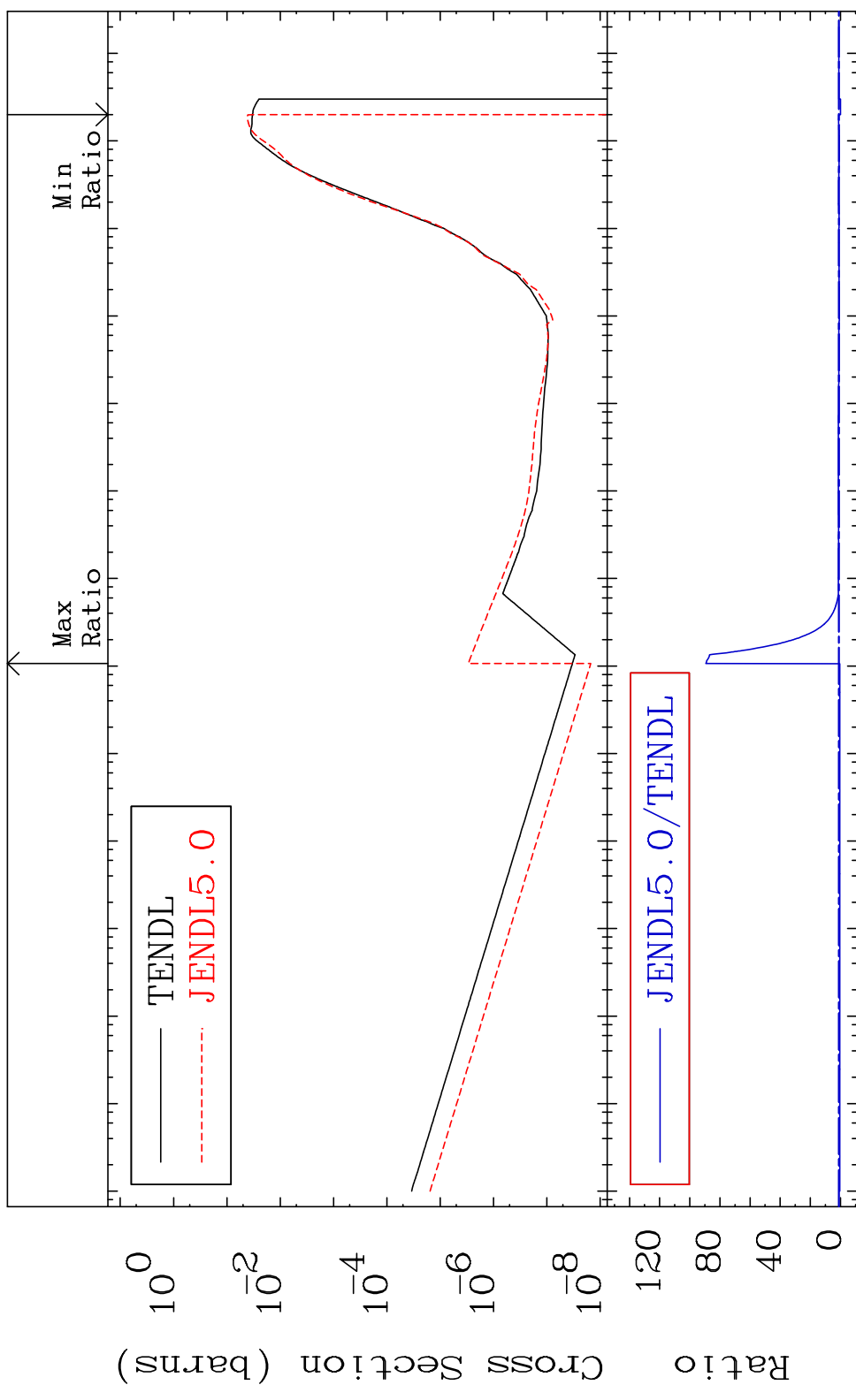
43-Tc-97m

MAT 4320

(n, p)

43-Tc-97m

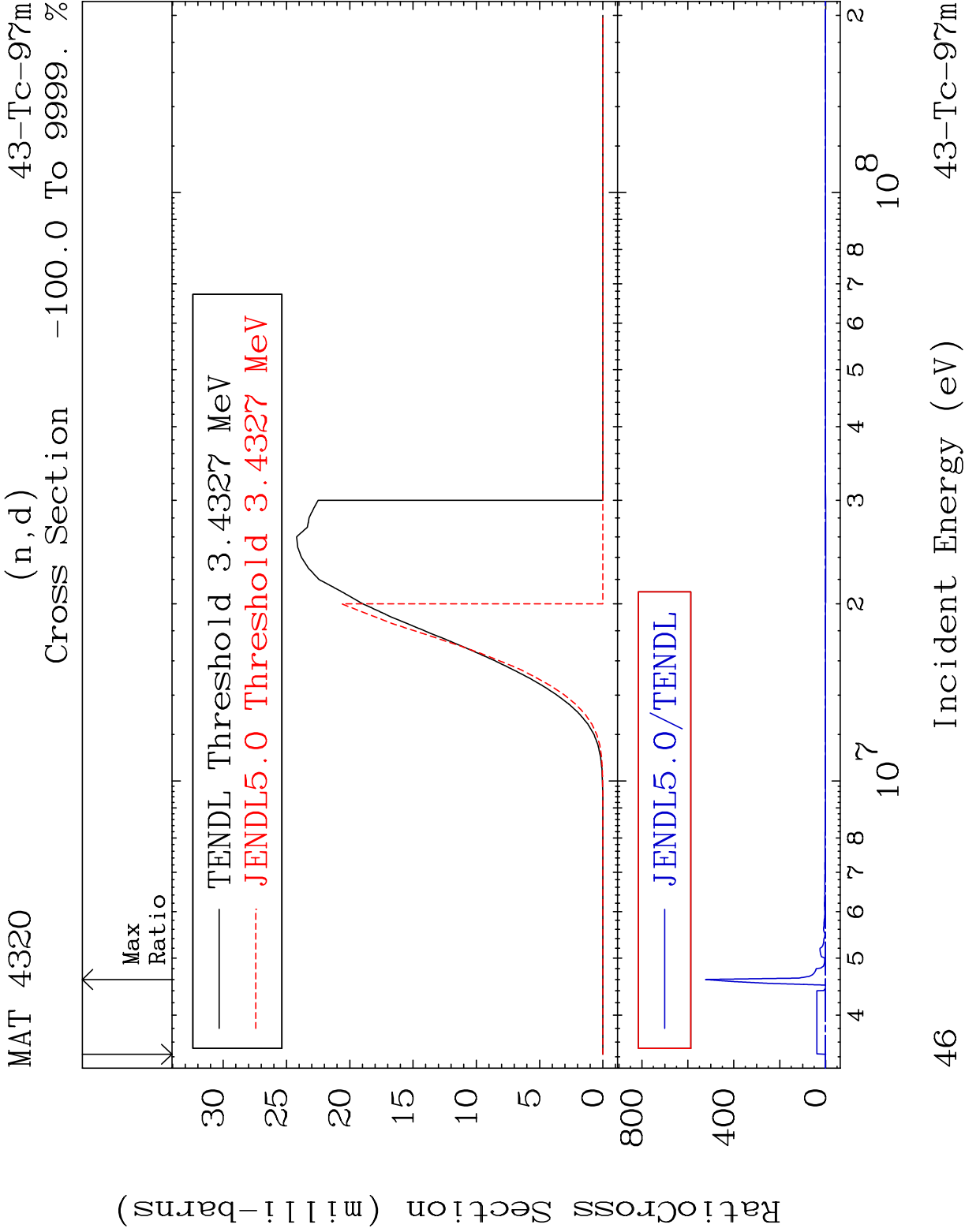
Cross Section -100.0 To 8838. %



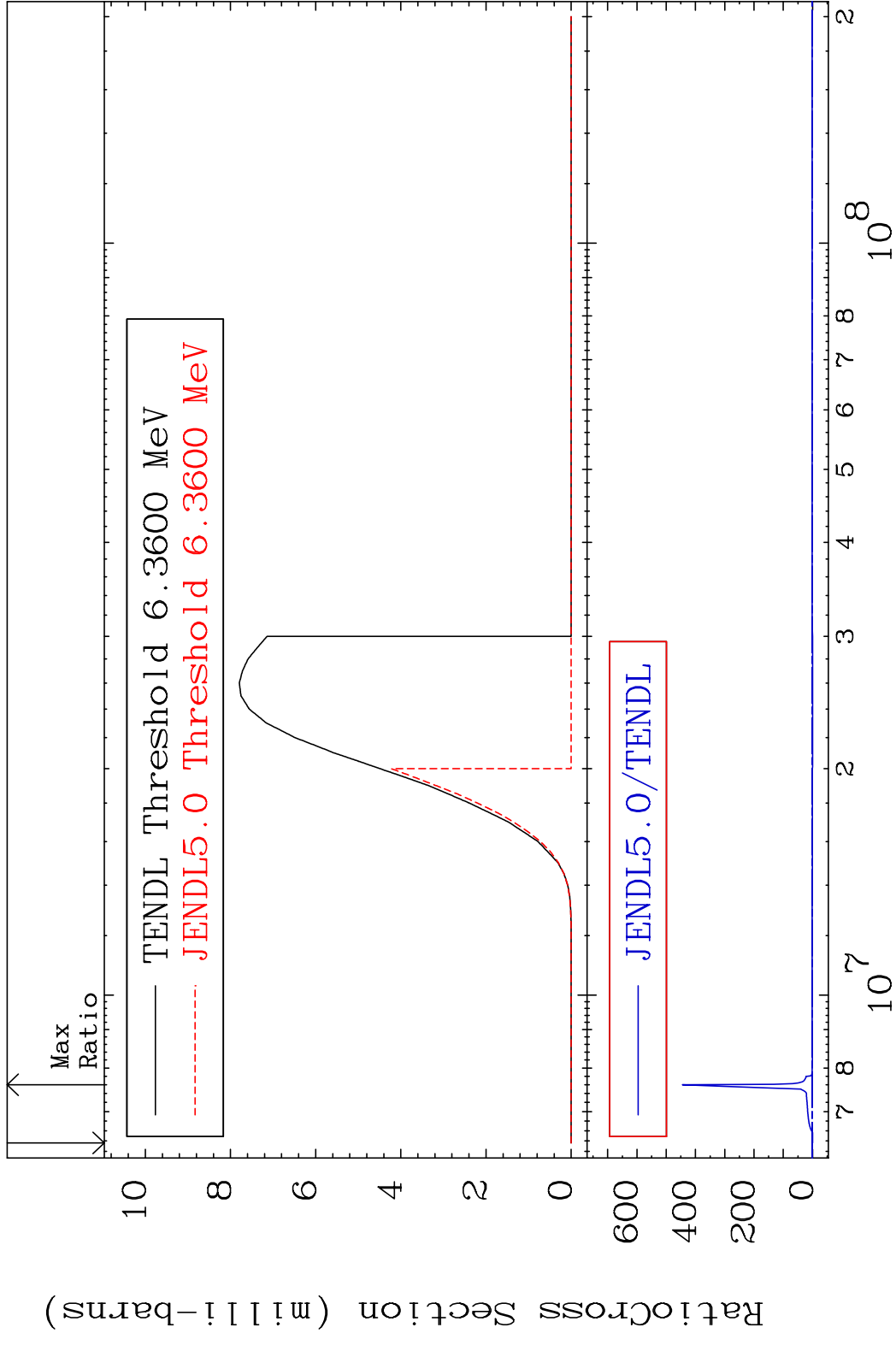
45

Incident Energy (eV)

43-Tc-97m



MAT 4320 (n, t) 43-Tc-97m
 Cross Section -100.0 To 9999. %

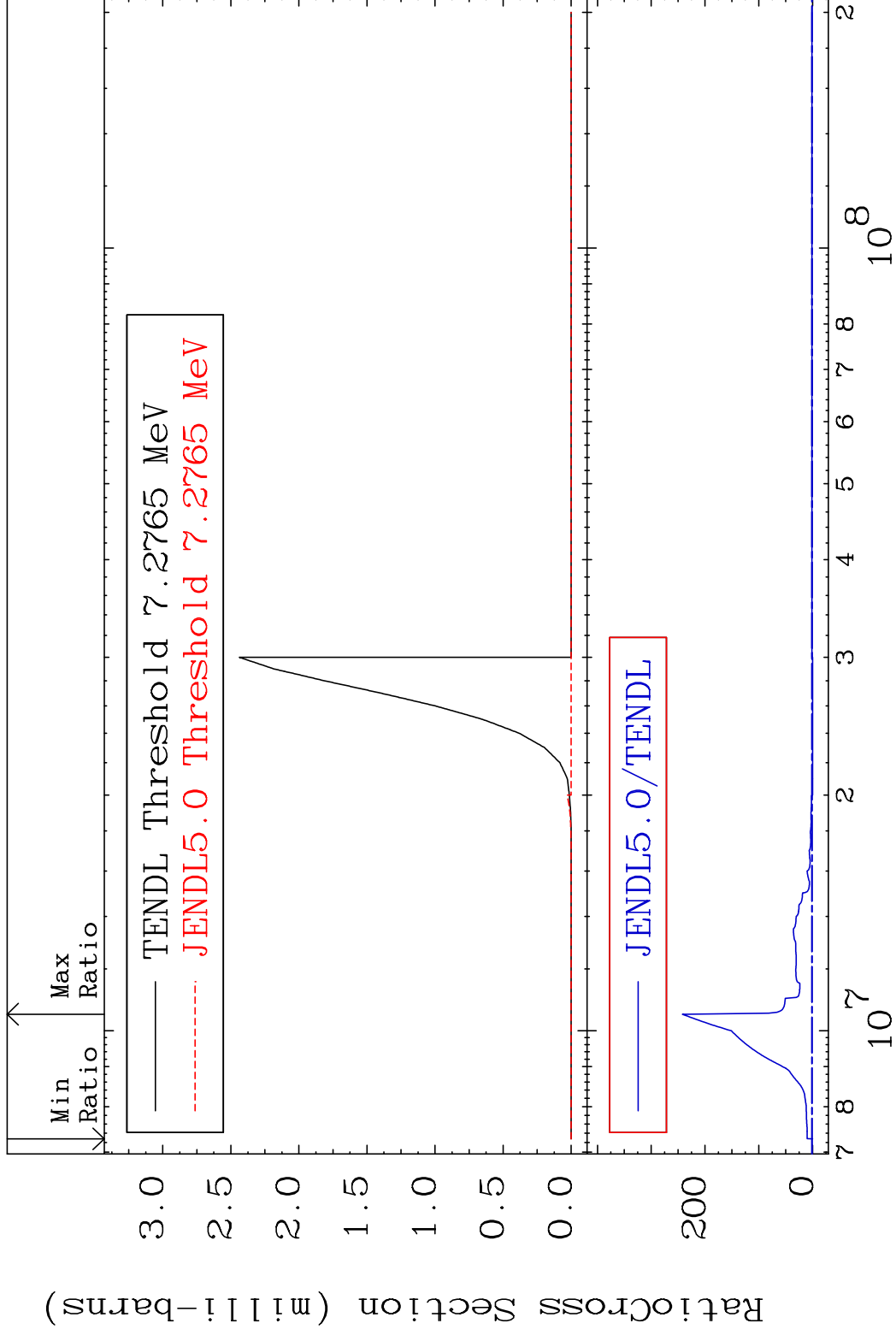


MAT 4320

(n, He-3)

43-Tc-97m

Cross Section -100.0 To 9999. %



48

Incident Energy (eV)

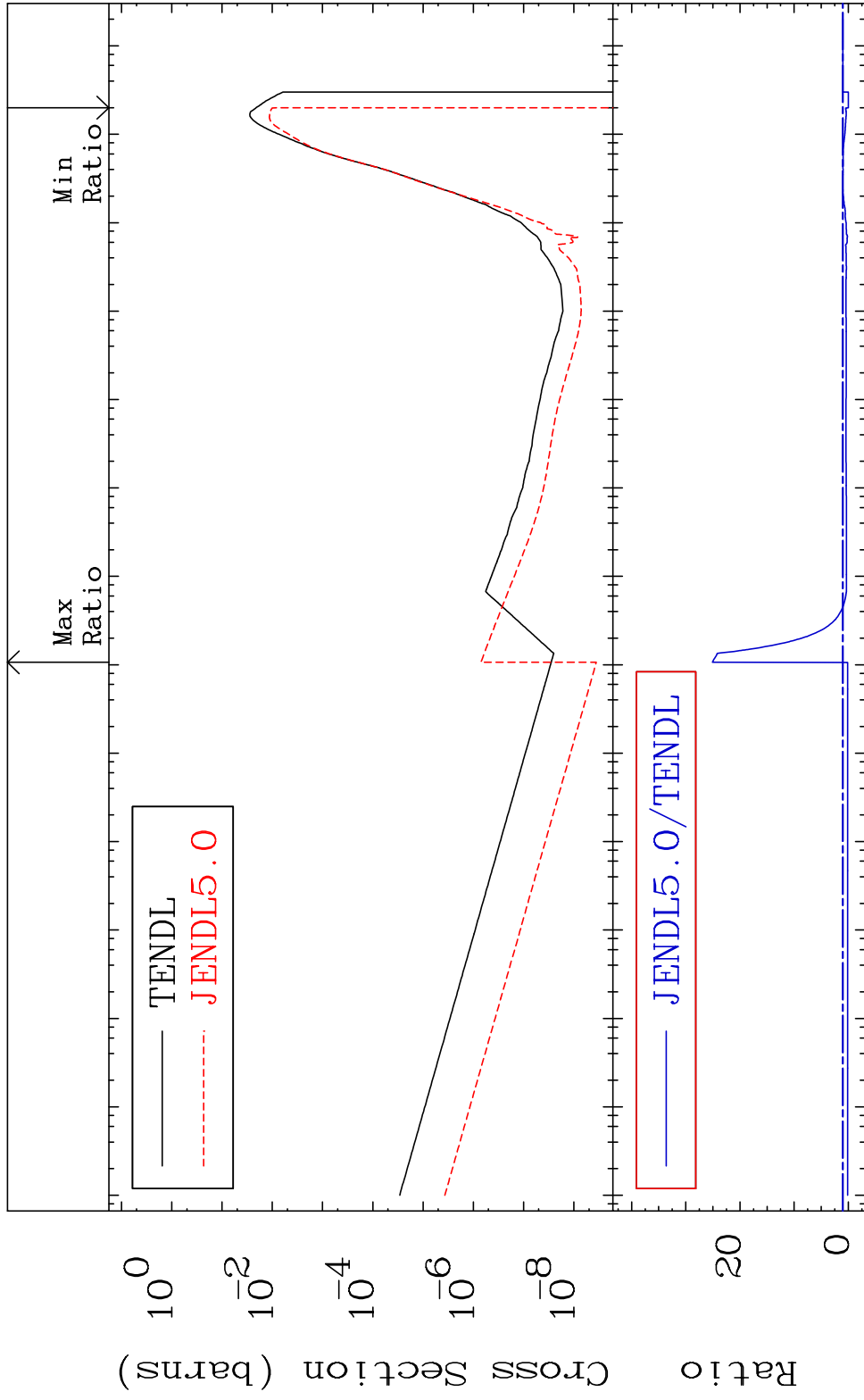
43-Tc-97m

MAT 4320

(n, α)

43-Tc-97m

Cross Section -100.0 To 2409. %



49

Incident Energy (eV)

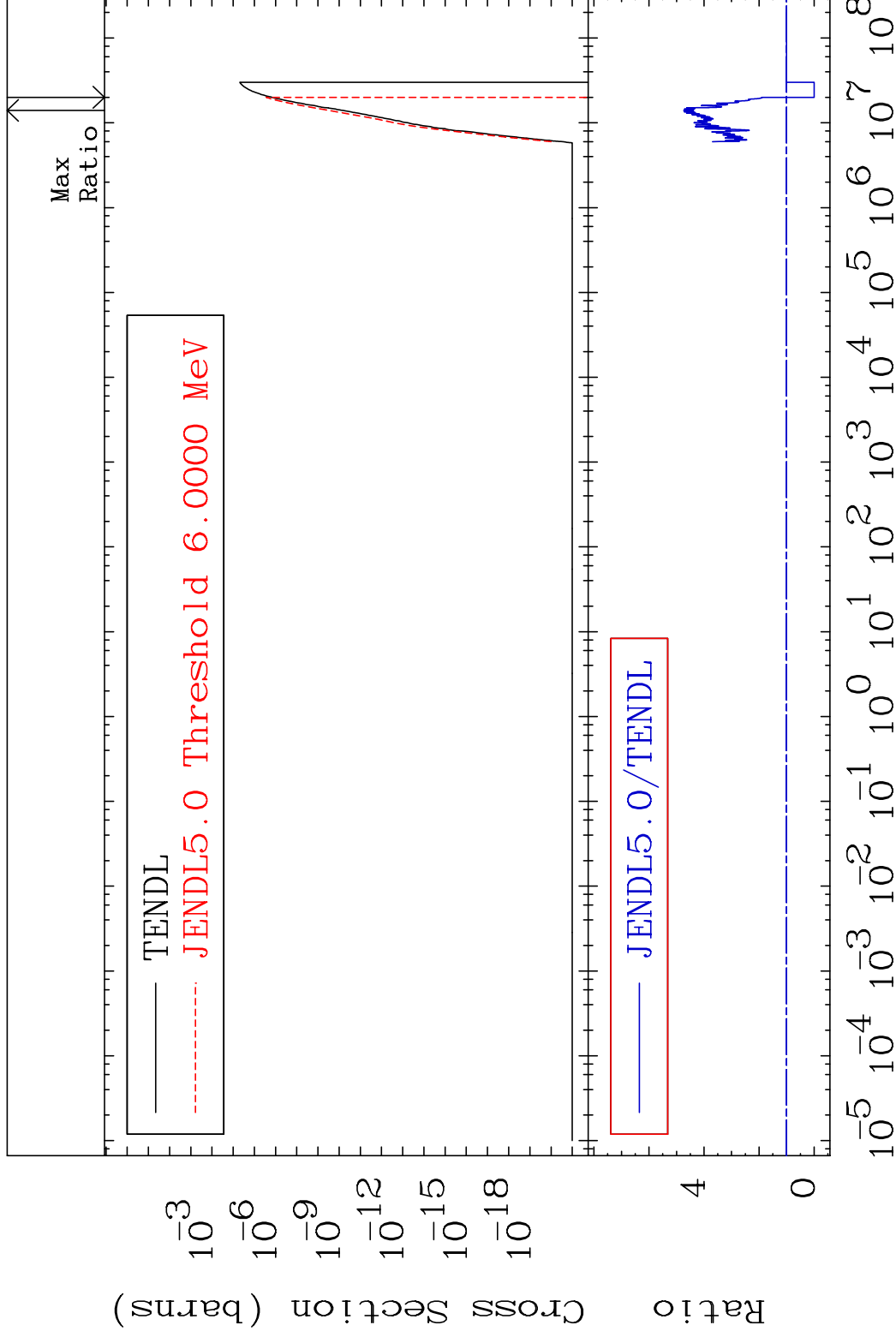
43-Tc-97m

MAT 4320

(n, 2α)

43-Tc-97m

Cross Section -100.0 To 374.0 %

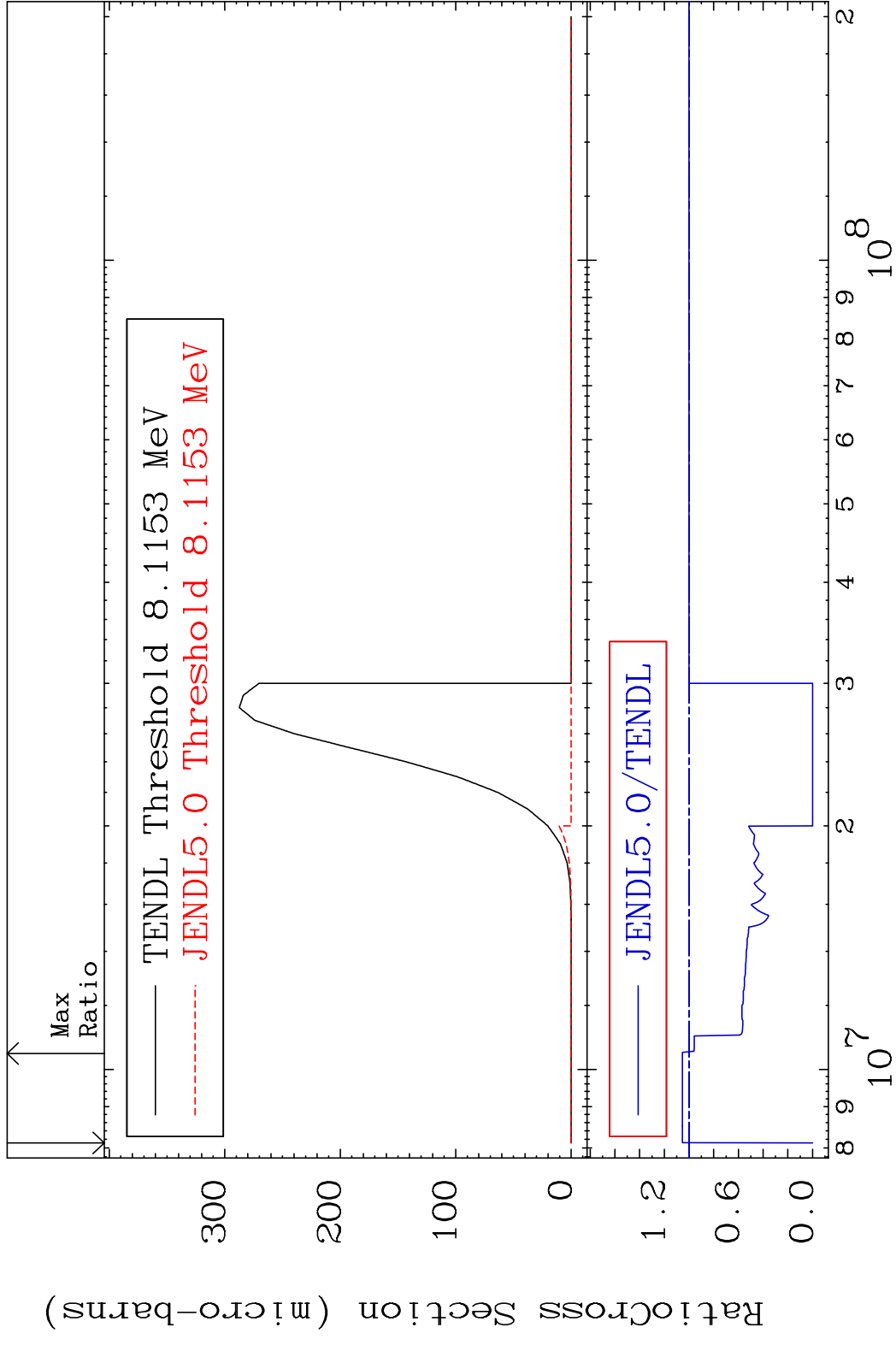


50

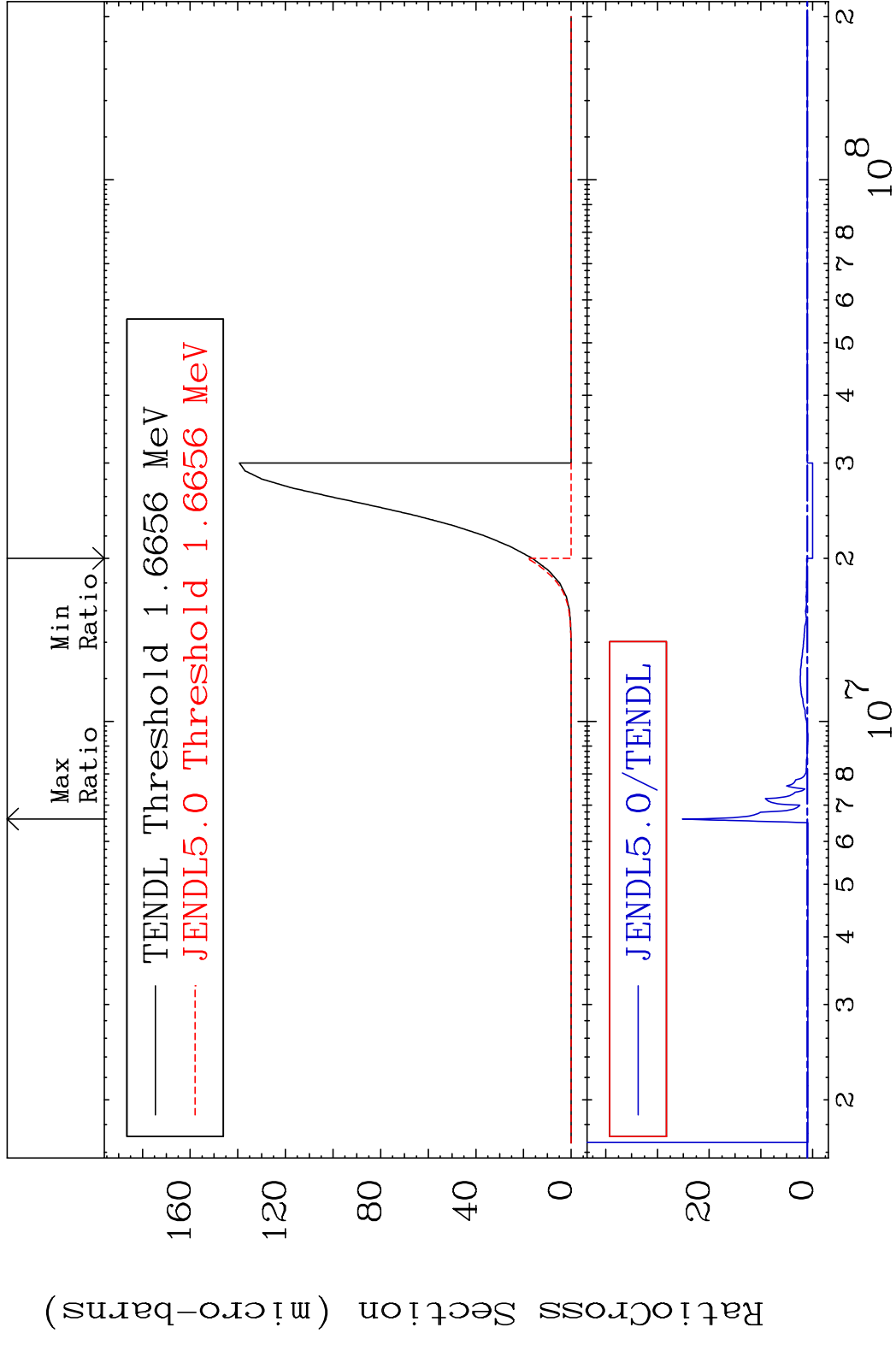
Incident Energy (eV)

43-Tc-97m

MAT 4320 (n,2p) 43-Tc-97m
 Cross Section -100.0 To 5.407 %



MAT 4320 (n,p) α 43-Tc-97m
 Cross Section -100.0 To 2418. %

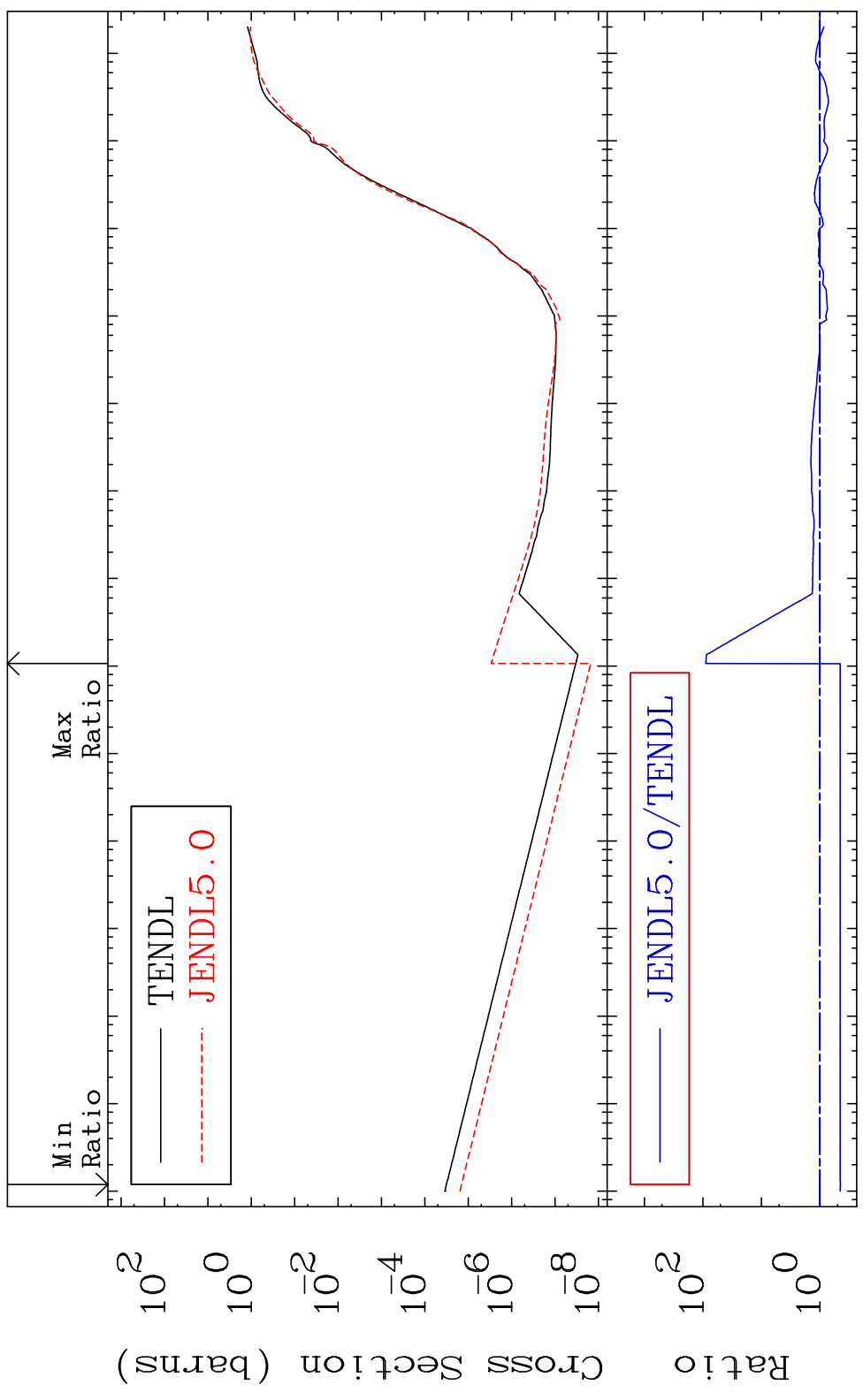


MAT 4320

Hydrogen Production

43-Tc-97m

Cross Section -55.30 To 8838. %

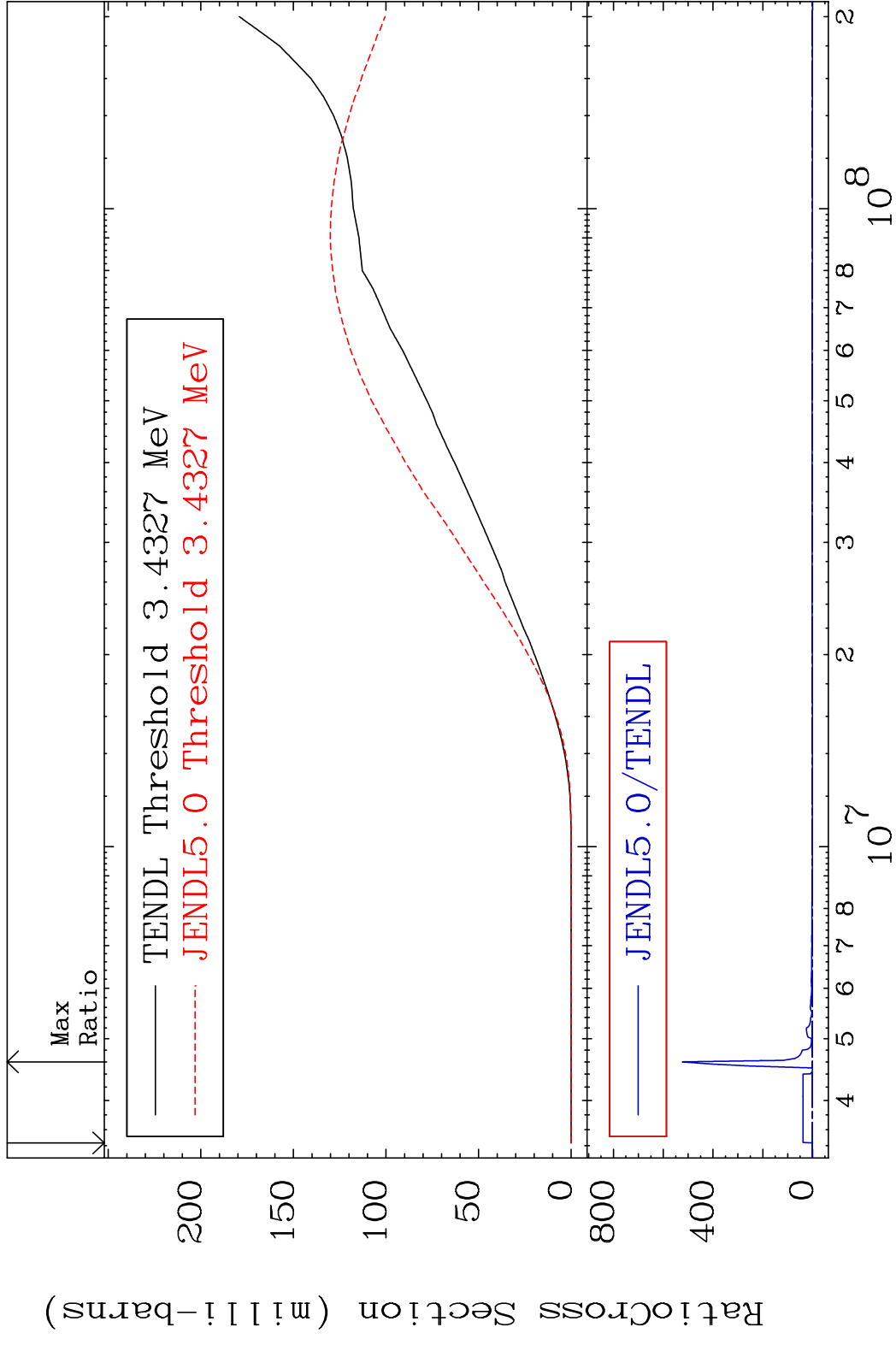


53

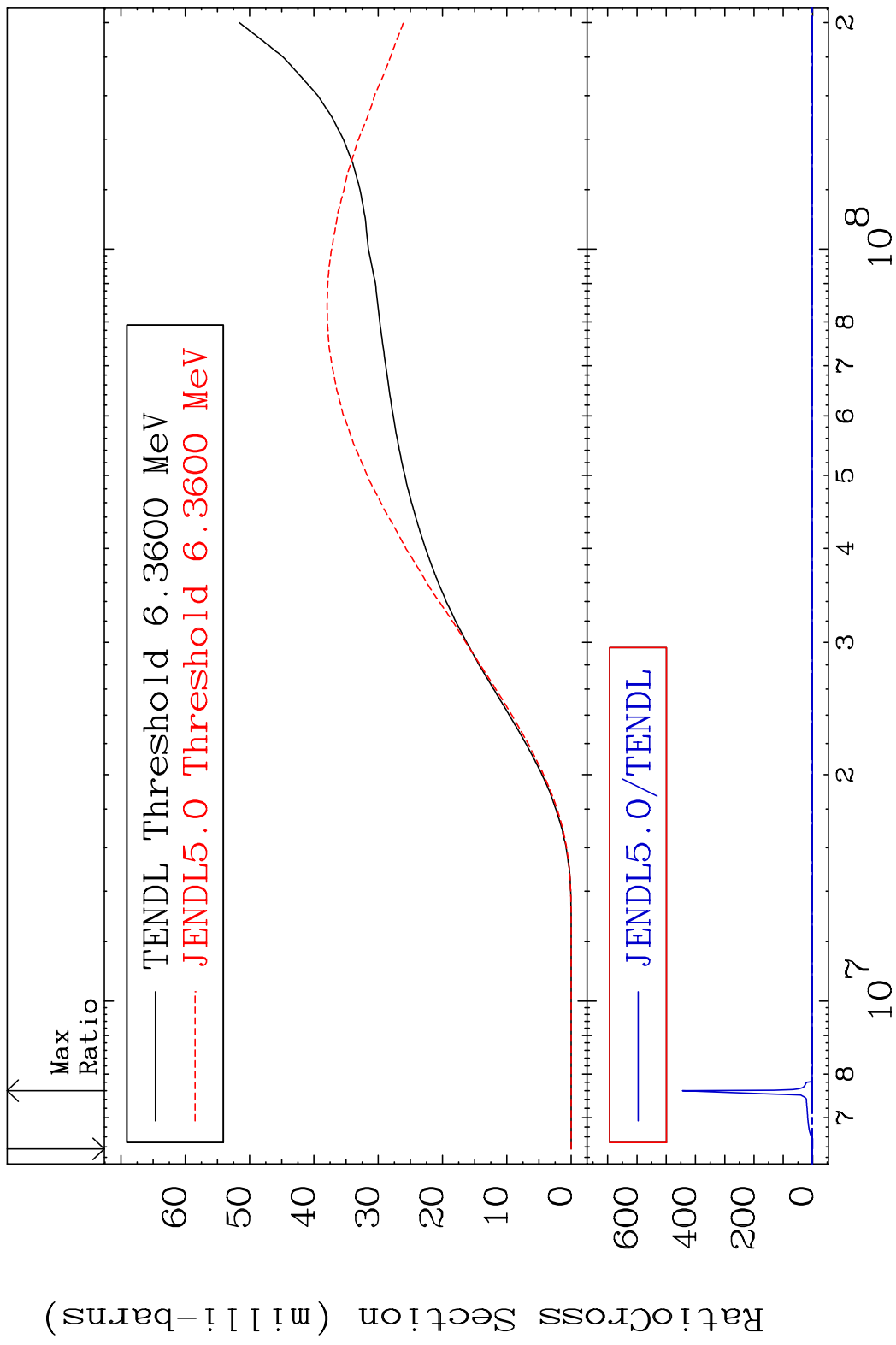
Incident Energy (eV)

43-Tc-97m

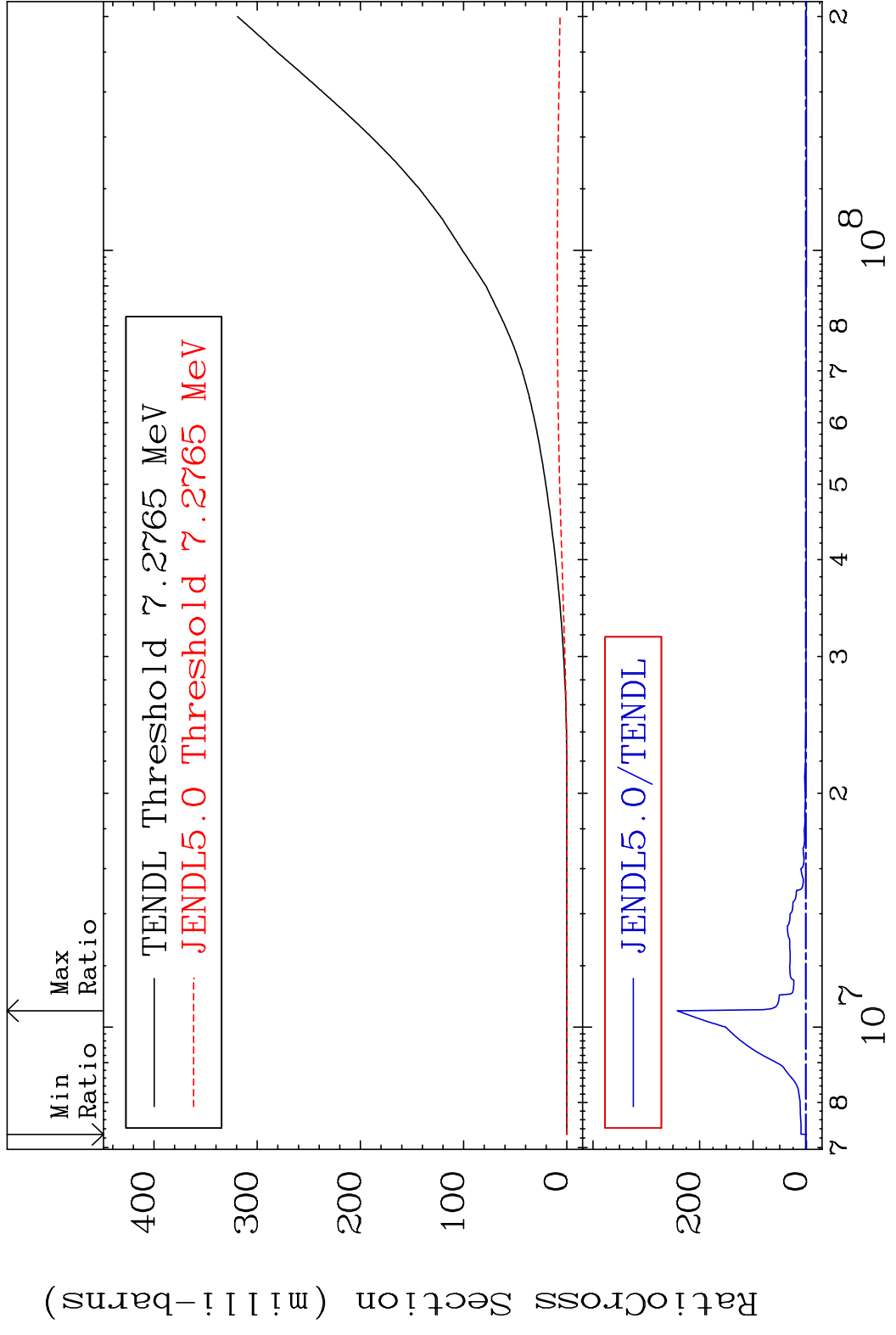
MAT 4320 Deuterium Production 43-Tc-97m
 Cross Section -100.0 To 9999. %



MAT 4320 Tritium Production 43-Tc-97m
 Cross Section -100.0 To 9999. %



MAT 4320 He-3 Production 43-Tc-97m
 Cross Section -100.0 To 9999. %



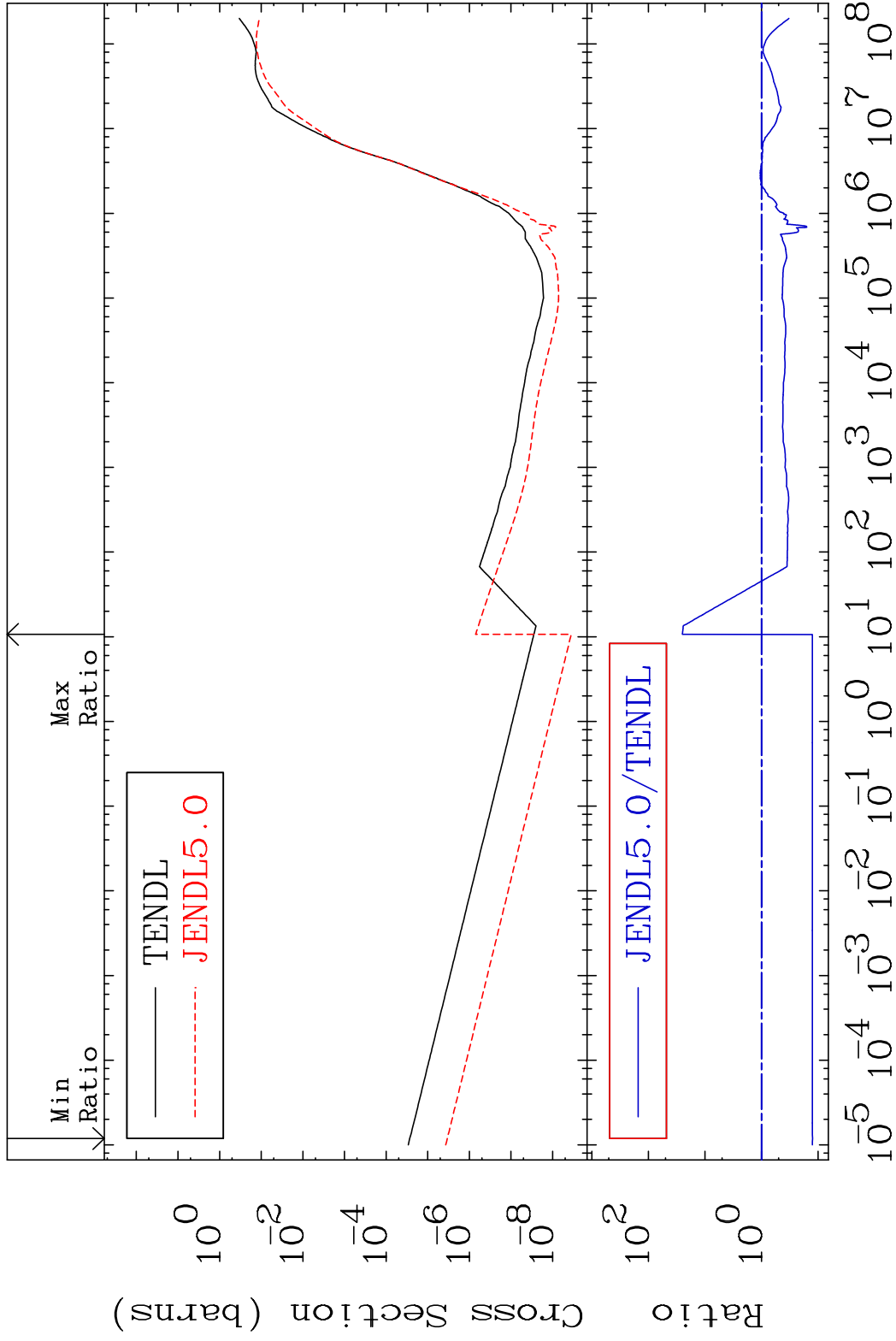
56 Incident Energy (eV) 43-Tc-97m

MAT 4320

He-4 Production

43-Tc-97m

Cross Section -87.45 To 2409. %

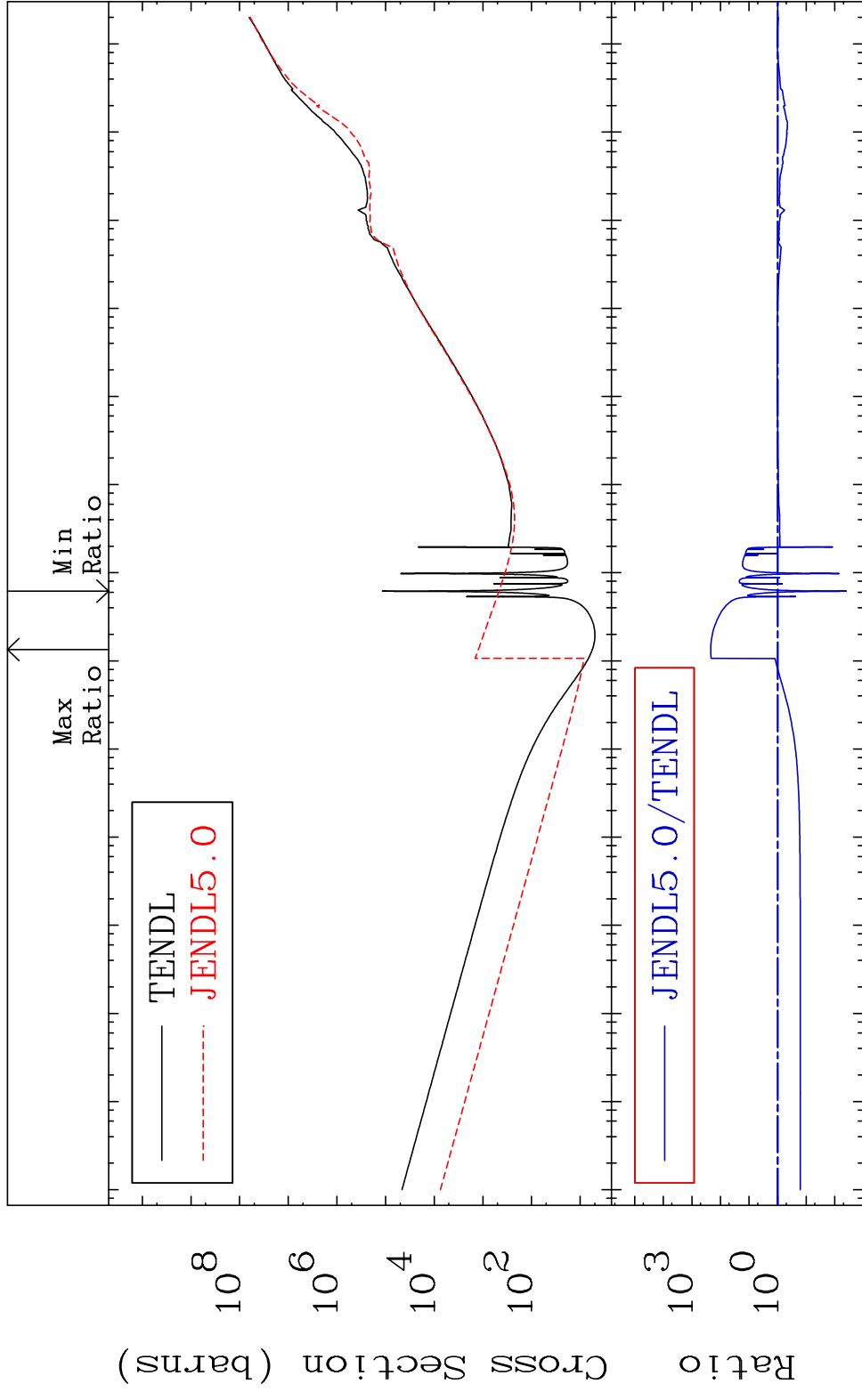


57

Incident Energy (eV)

43-Tc-97m

MAT 4320 Kerma total (eV-barns) 43-Tc-97m
 Cross Section -99.60 To 9999. %

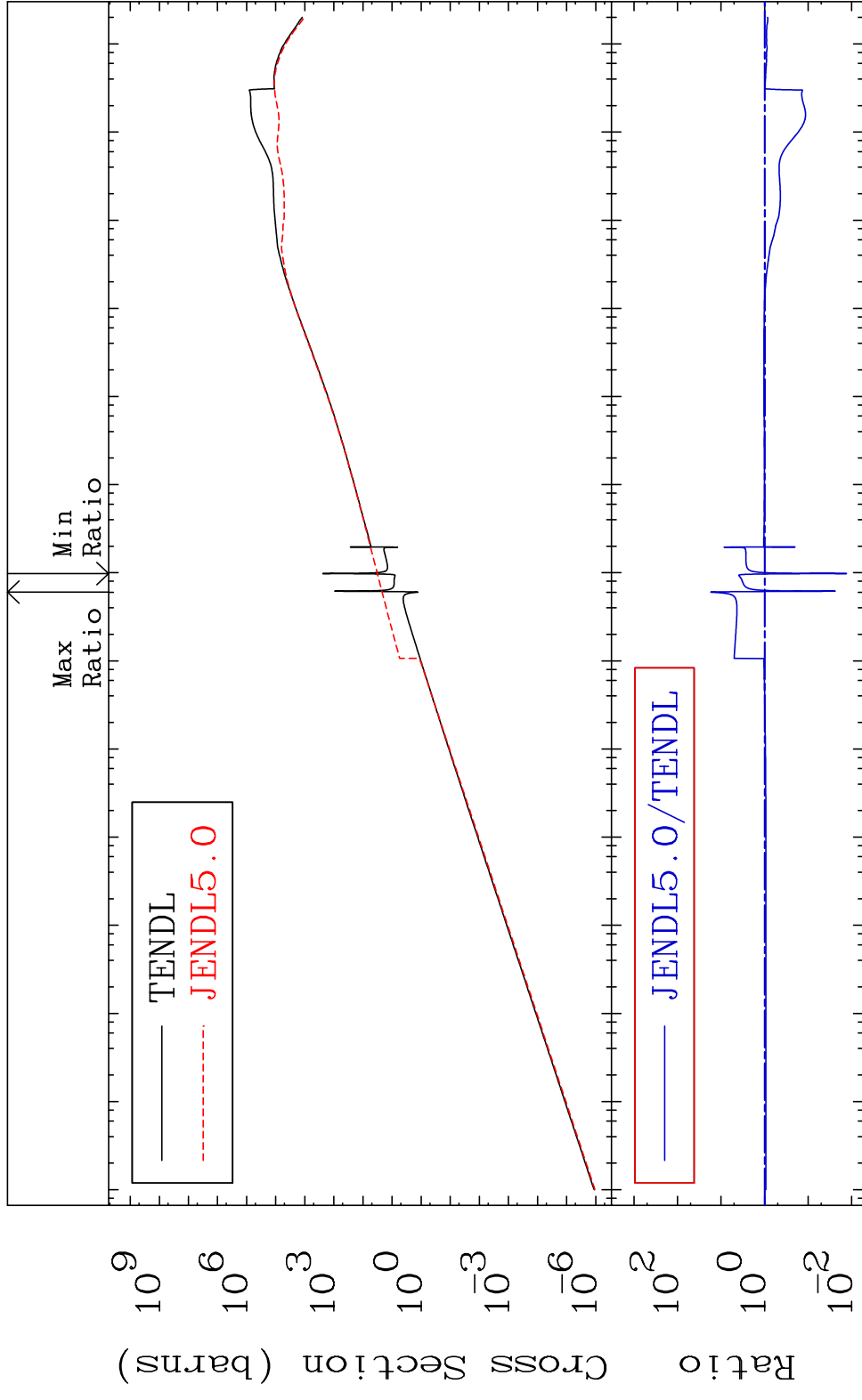


Ratio
 10³
 10⁰
 10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

MAT 4320

Kerma elastic
Cross Section -98.67 To 1625. %

43-Tc-97m



10⁹
10⁶
10³
10⁰
10⁻³
10⁻⁶
10²
10⁰
10⁻²

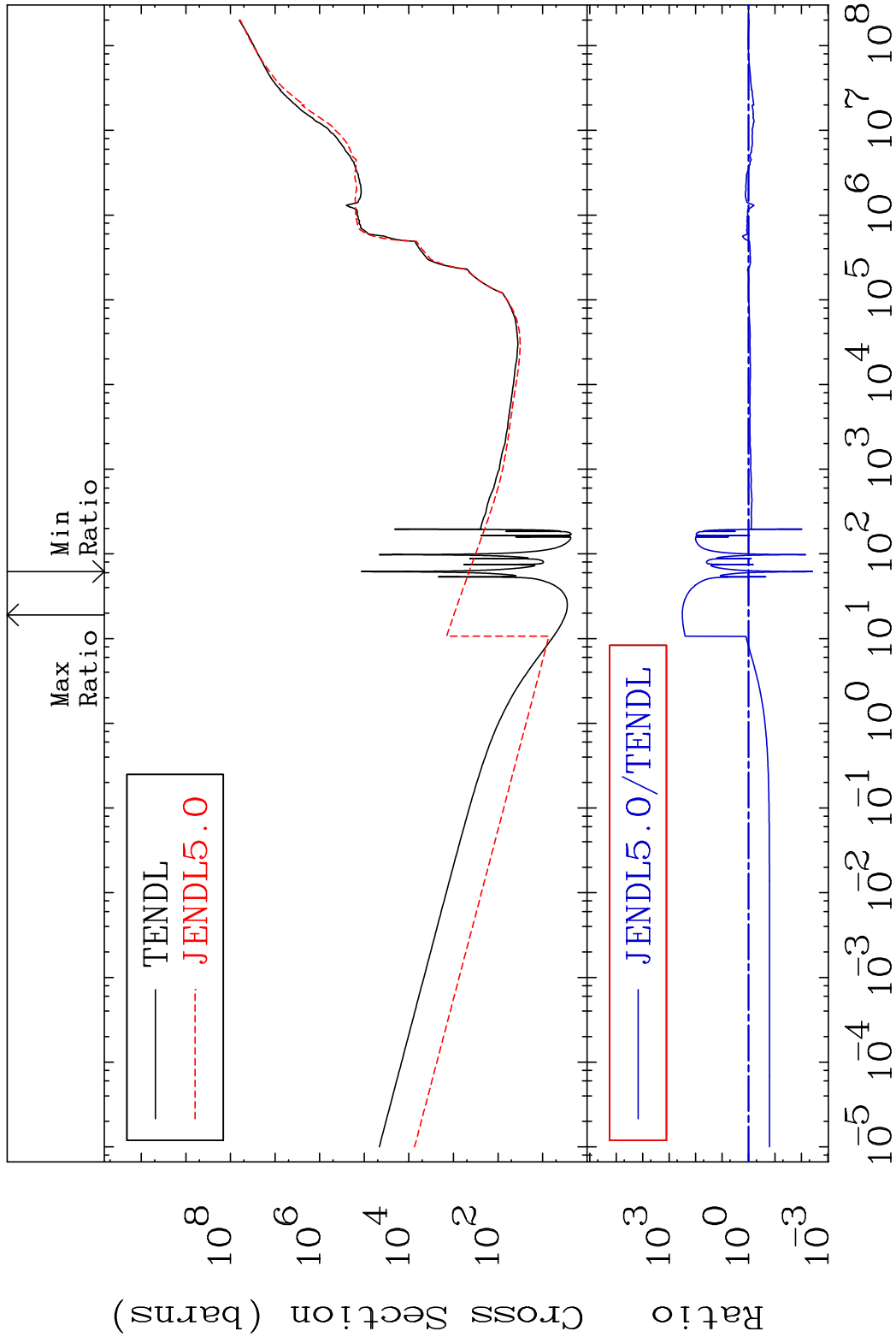
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

59

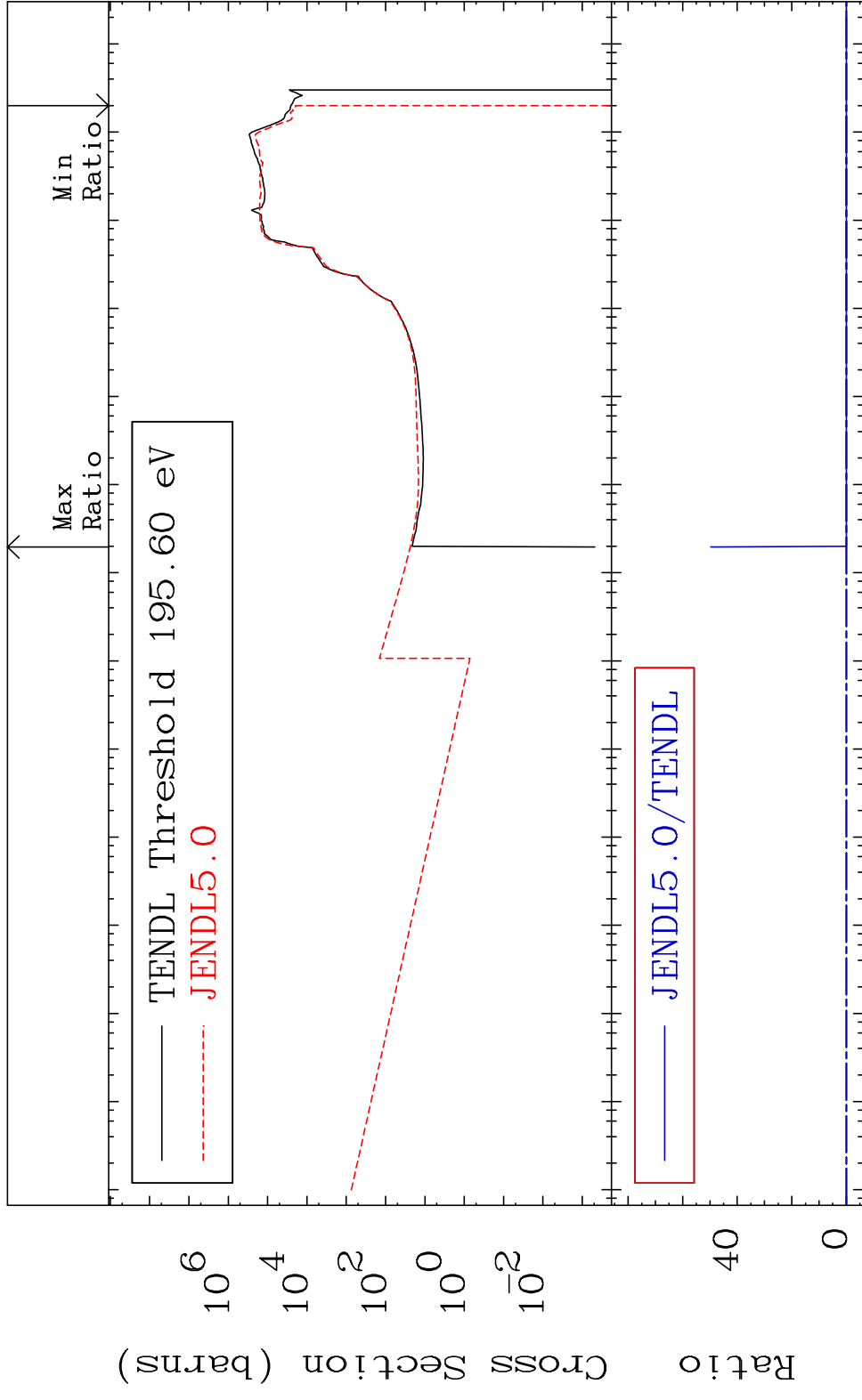
Incident Energy (eV)

43-Tc-97m

MAT 4320 Kerma non-elastic (all but mt2) 43-Tc-97m
Cross Section -99.62 To 9999. %

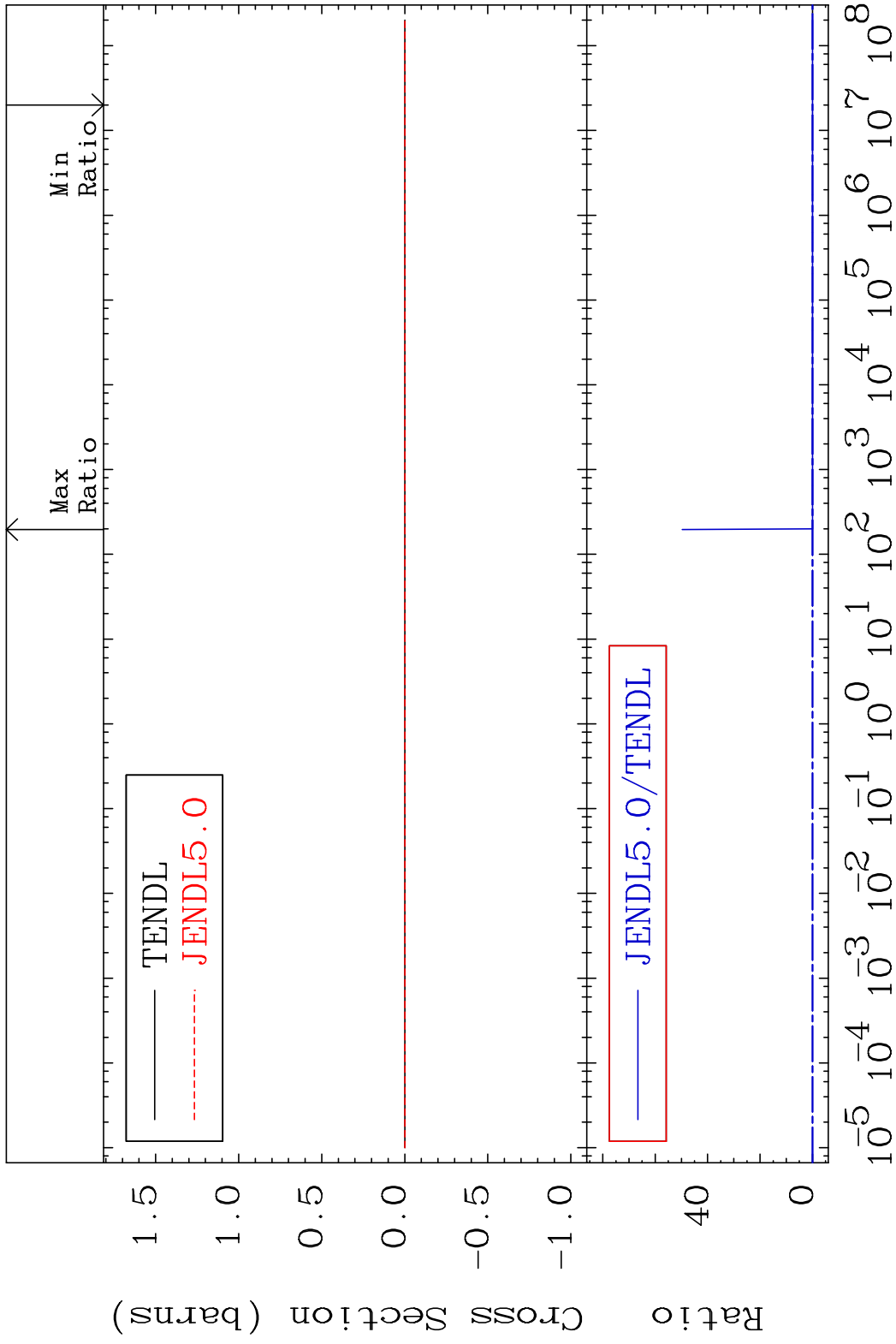


MAT 4320 Kerma inelastic (mt51-91) 43-Tc-97m
 Cross Section -100.0 To 9999. %



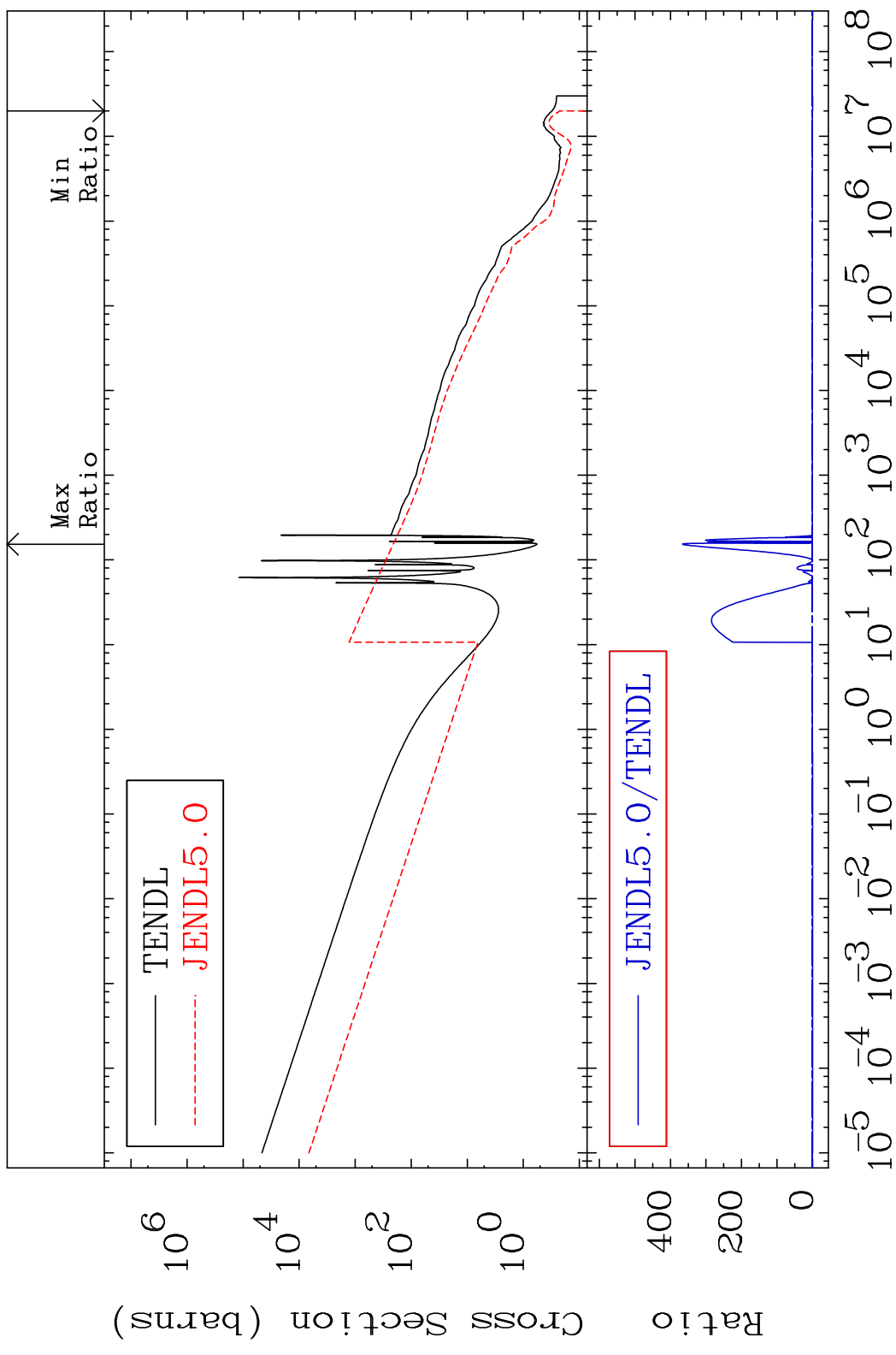
61 Incident Energy (eV) 43-Tc-97m

MAT 4320 Kerma fission (mt18 or mt19-20-21-38) 43-Tc-97m
 Cross Section -100.0 To 9999. %



MAT 4320

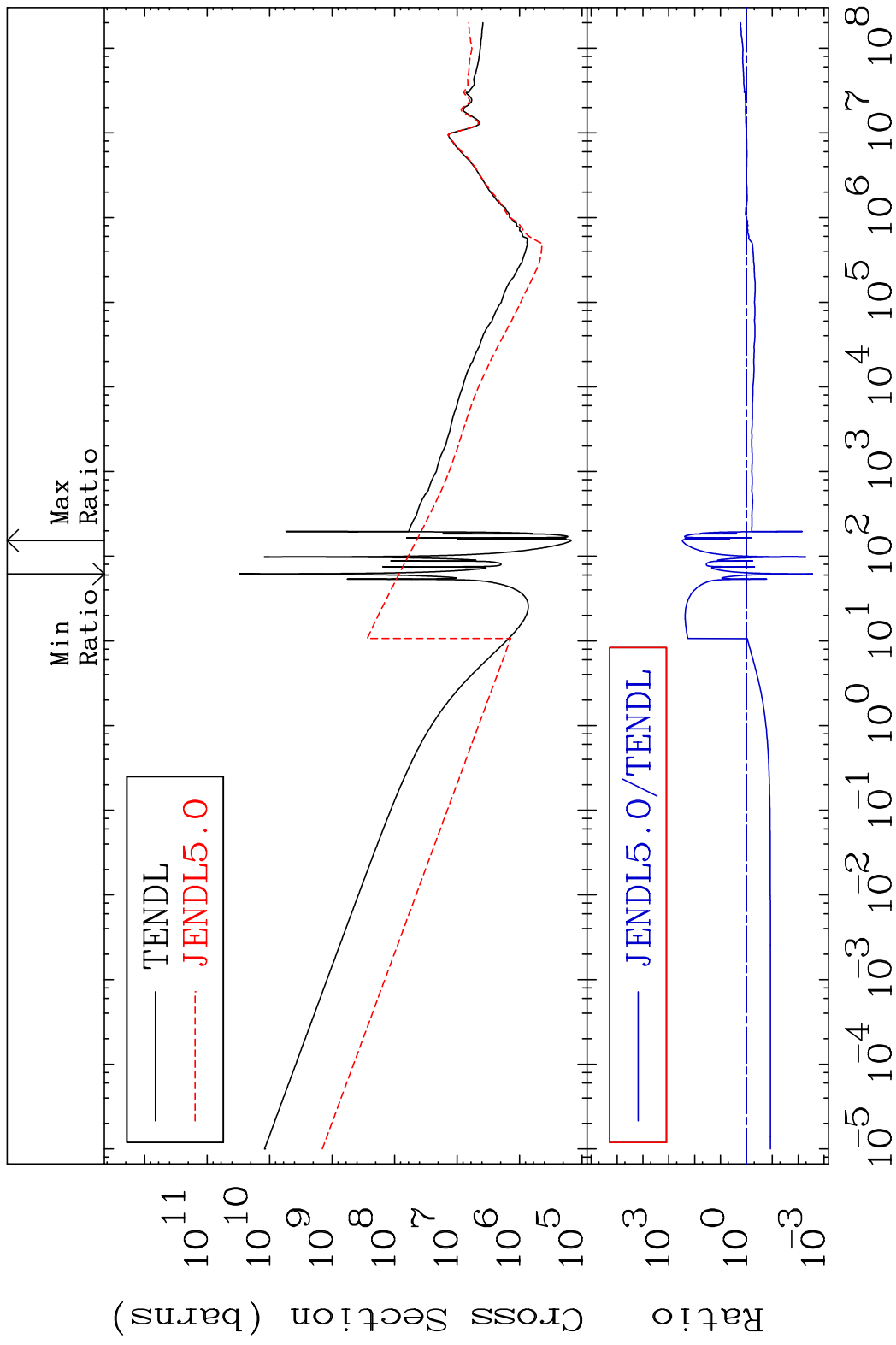
Kerma capture (mt102) 43-Tc-97m
Cross Section -100.0 To 9999. %



63

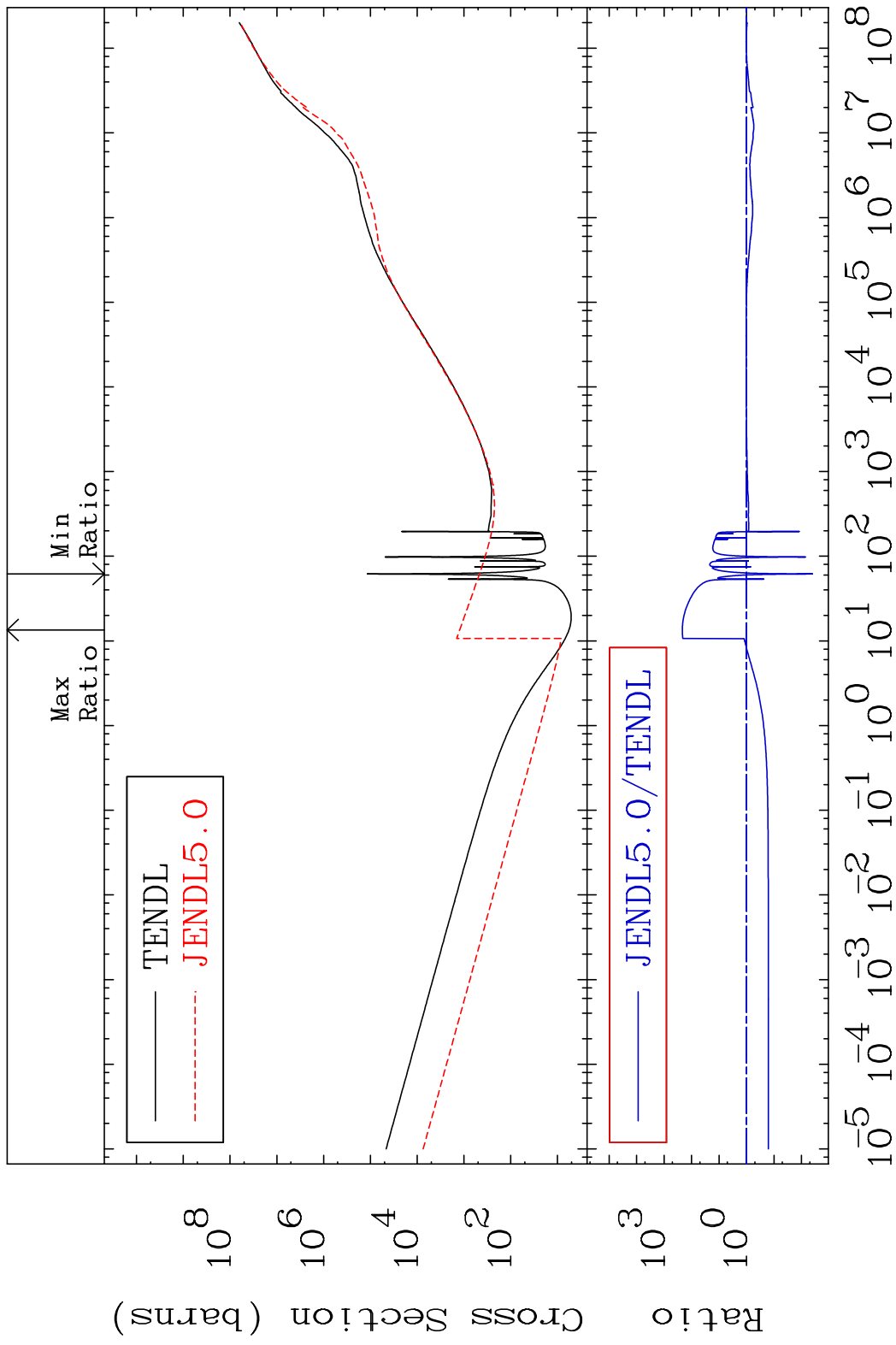
Incident Energy (eV) 43-Tc-97m

MAT 4320 Total photon (eV-barns) 43-Tc-97m
 Cross Section -99.72 To 9999. %



64 Incident Energy (eV) 43-Tc-97m

MAT 4320 Total kinematic kerma (high limit) 43-Tc-97m
 Cross Section -99.60 To 9999. %



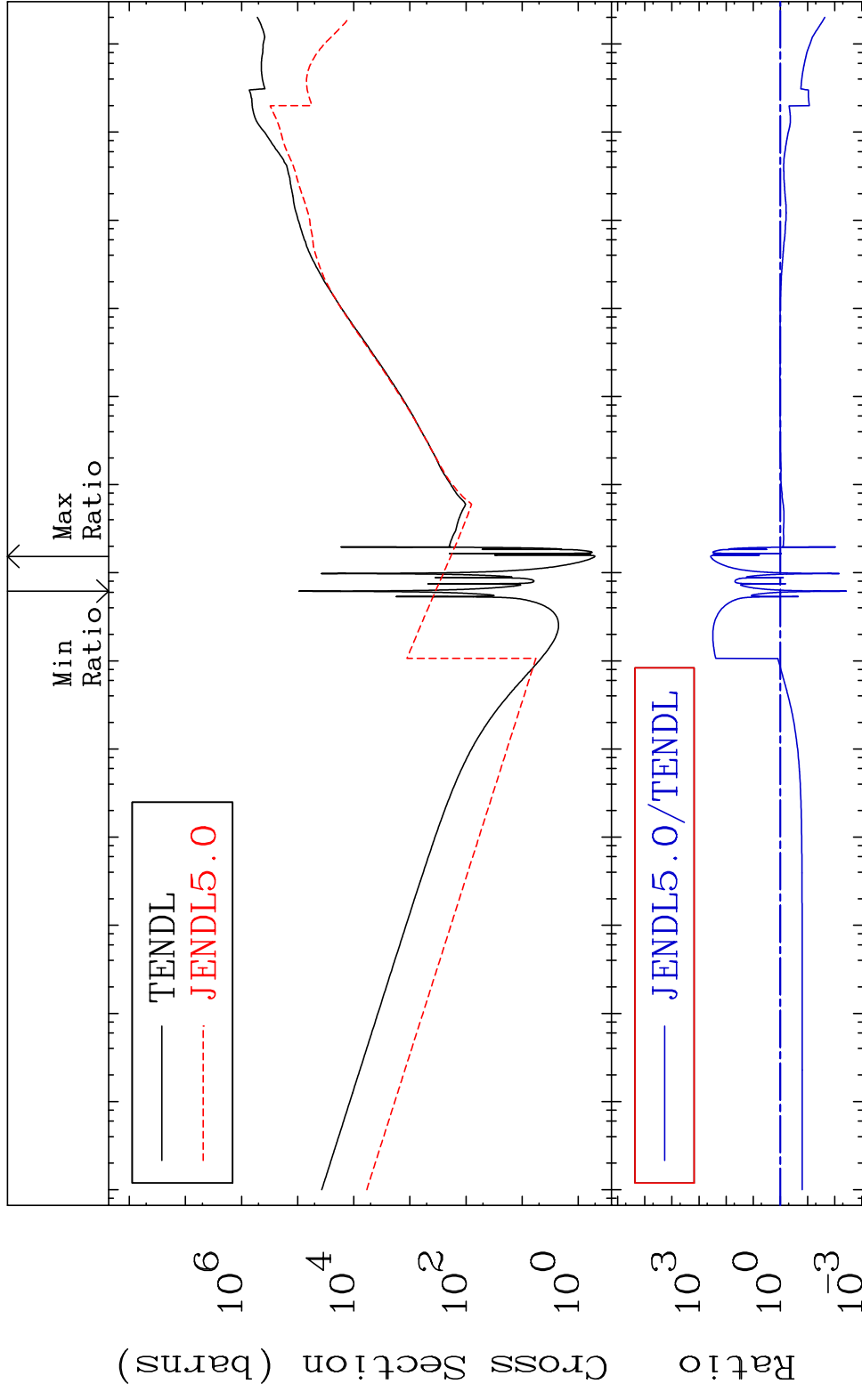
65 Incident Energy (eV) 43-Tc-97m

MAT 4320

Dpa total (eV-barns)

43-Tc-97m

Cross Section -99.63 To 9999. %

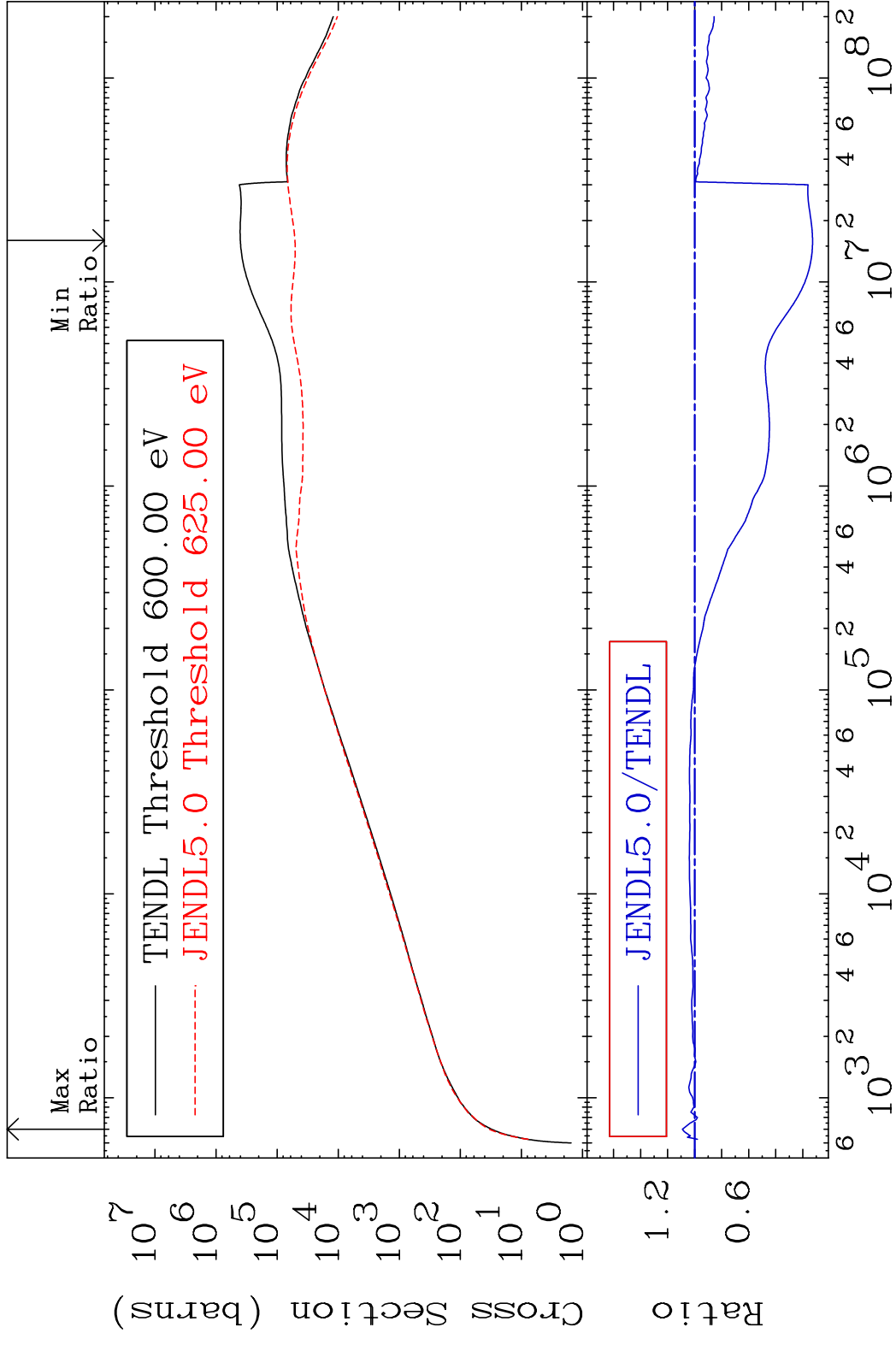


66

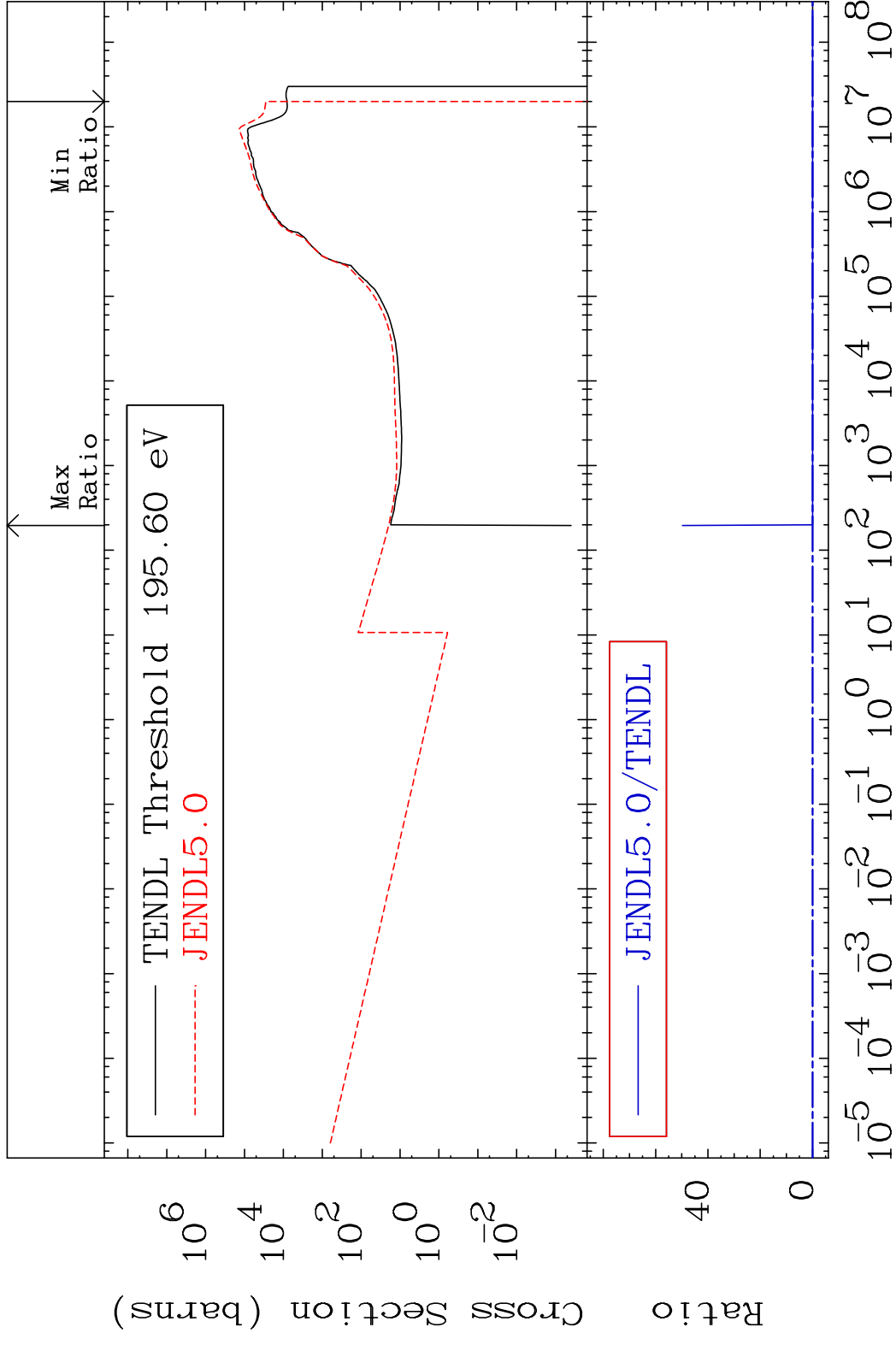
Incident Energy (eV)

43-Tc-97m

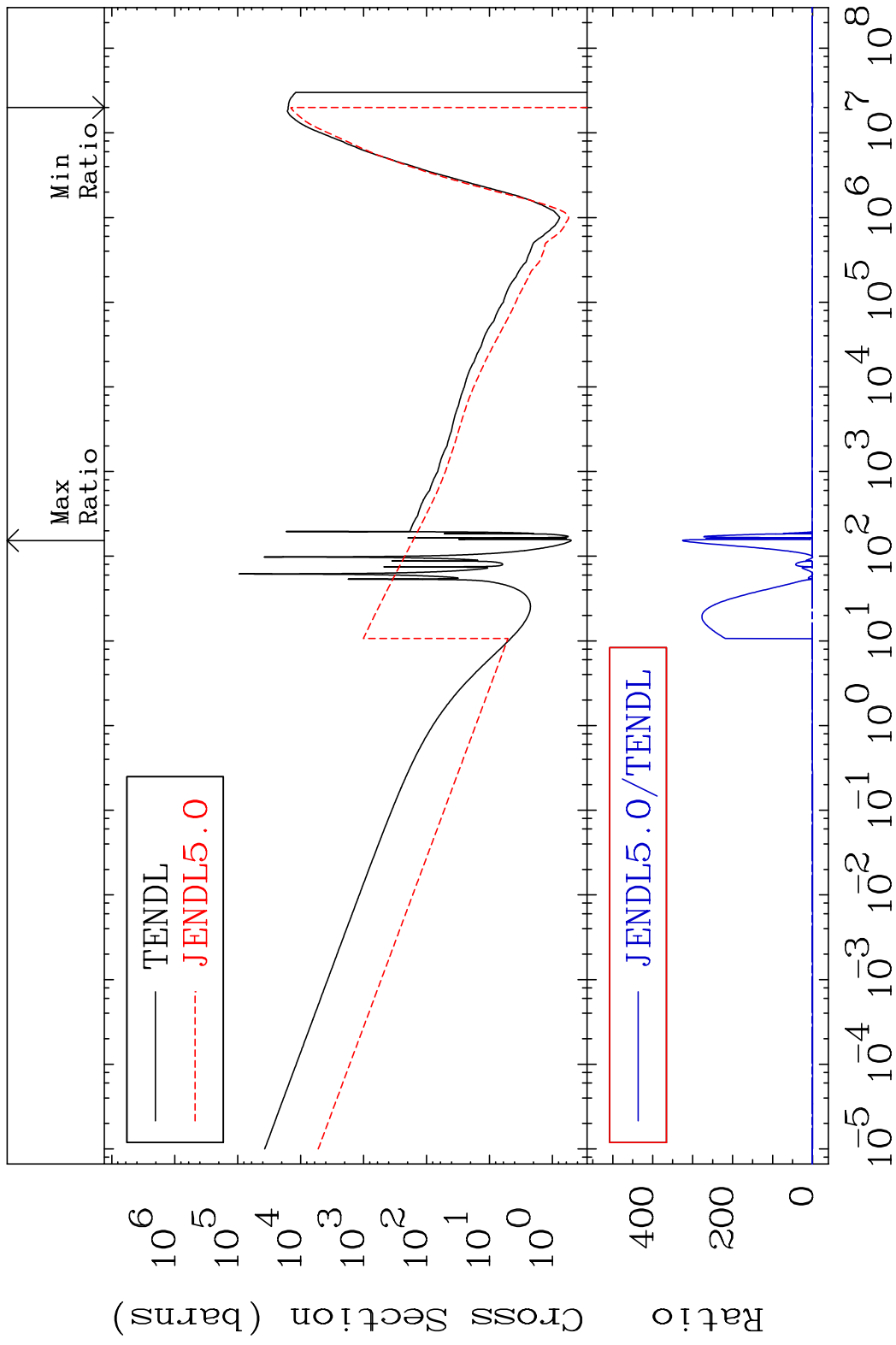
MAT 4320 Dpa elastic (mt2) 43-Tc-97m
 Cross Section -87.24 To 9.087 %



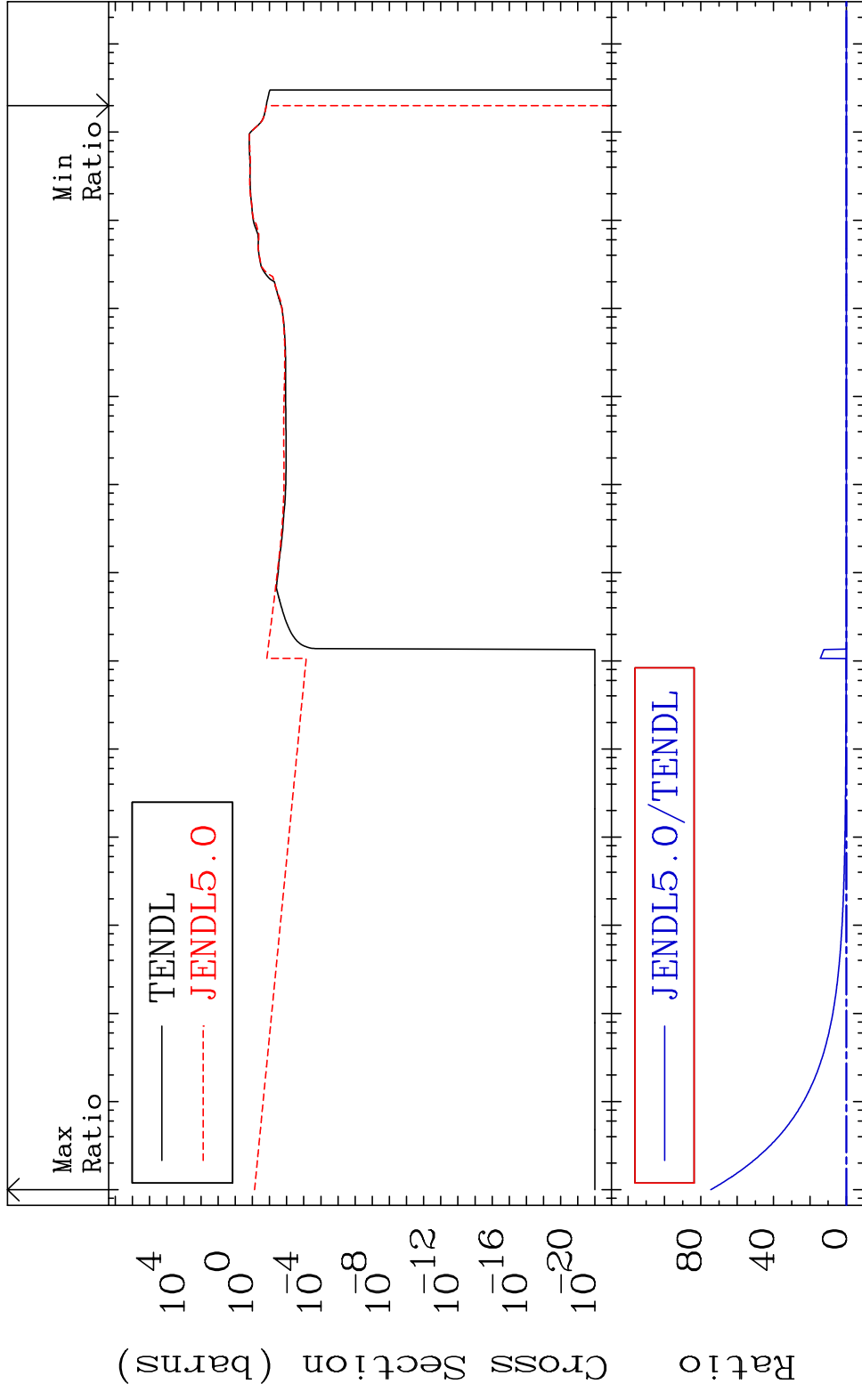
MAT 4320 Dpa inelastic (mt51-91) 43-Tc-97m
 Cross Section -100.0 To 9999. %



MAT 4320 Dpa disappearance (mt102 -120) 43-Tc-97m
 Cross Section -100.0 To 9999. %

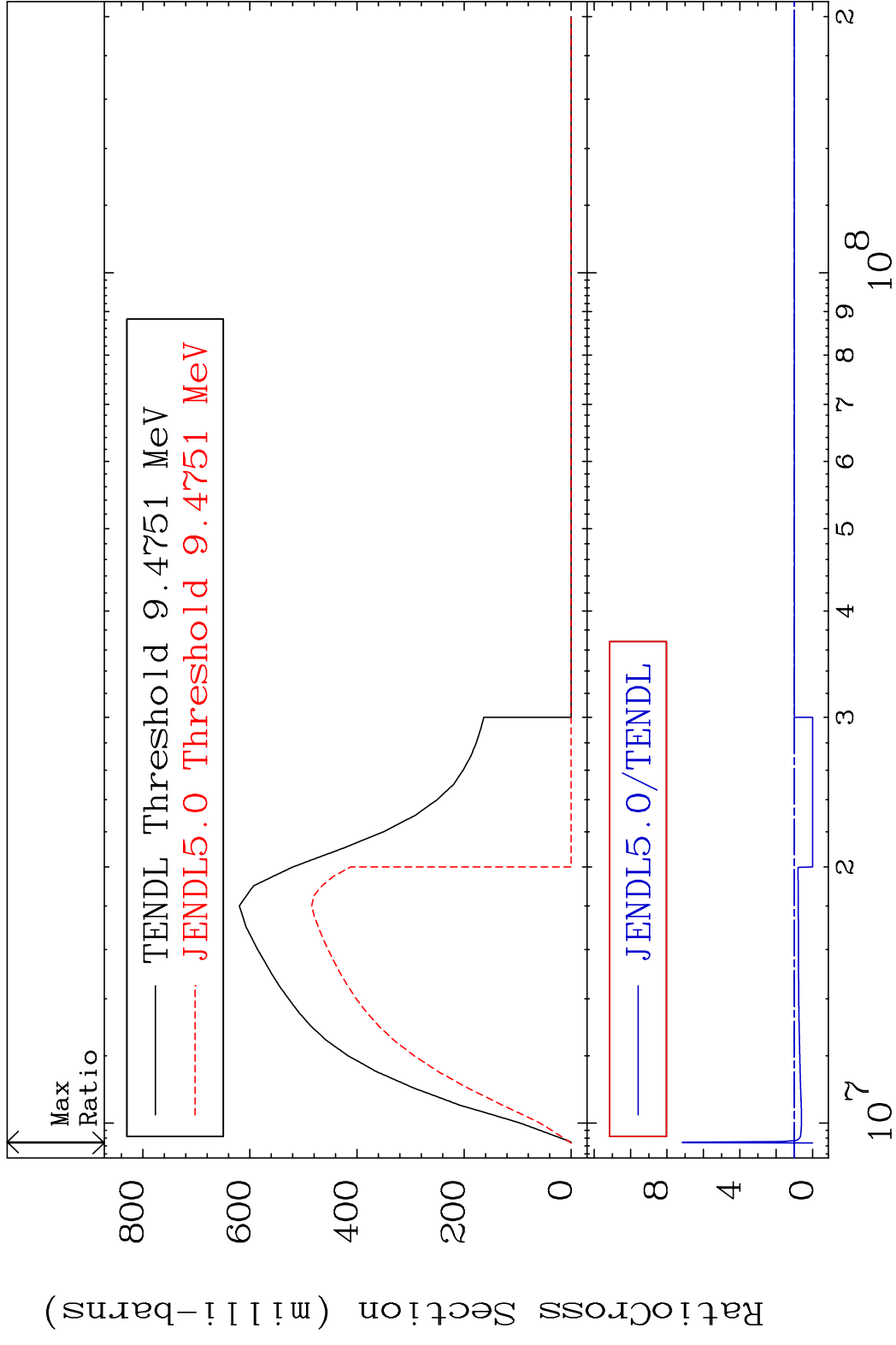


MAT 4320 Inelastic: 43-Tc-97g 43-Tc-97m
 Radionuclide Production Cross Section Ratio 9999. %



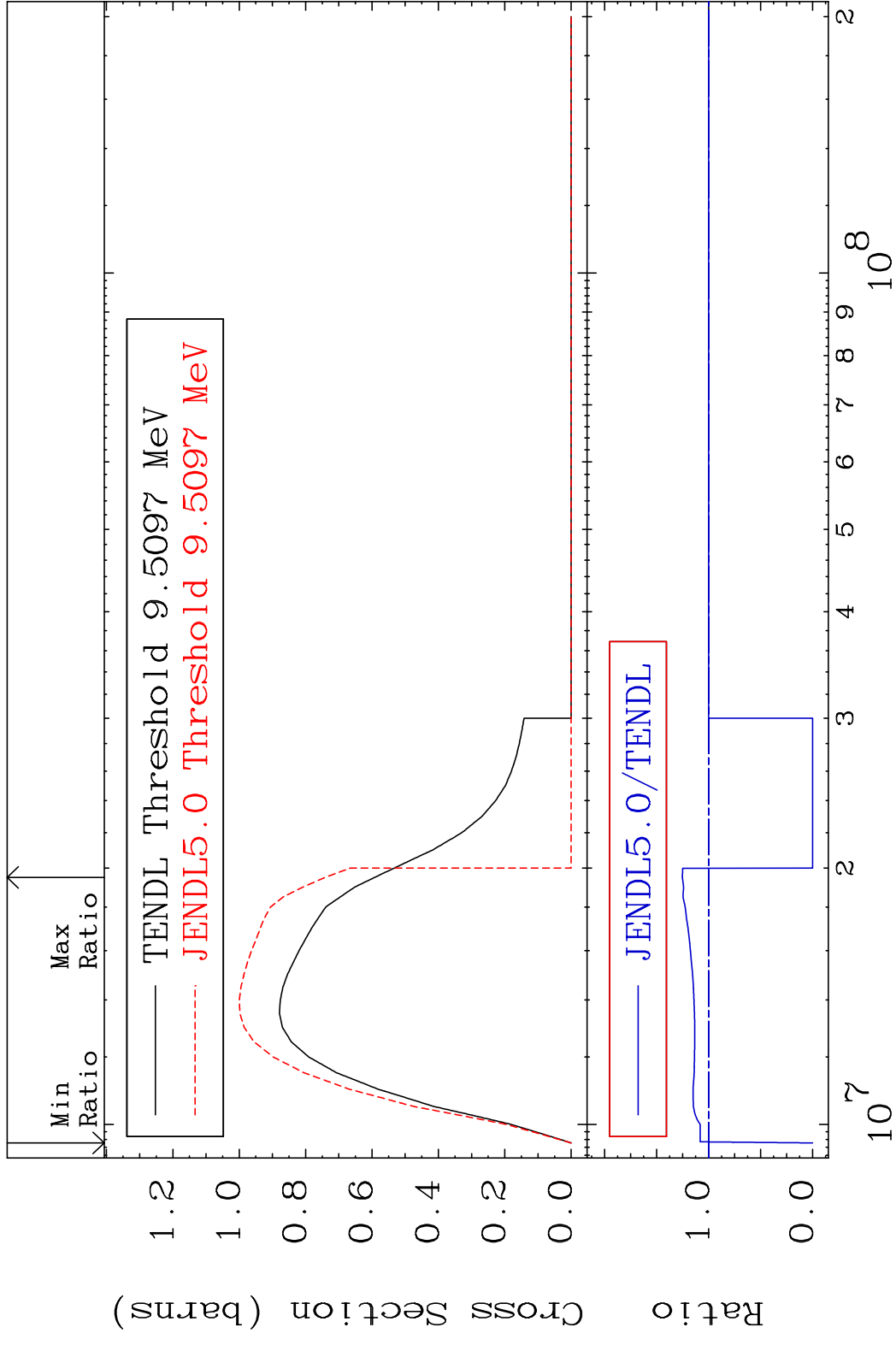
70 Incident Energy (eV) 43-Tc-97m

MAT 4320 (n,2n):43-Tc-96g 43-Tc-97m
 Radionuclide Production Cross Section 180.0 dth 615.5 %



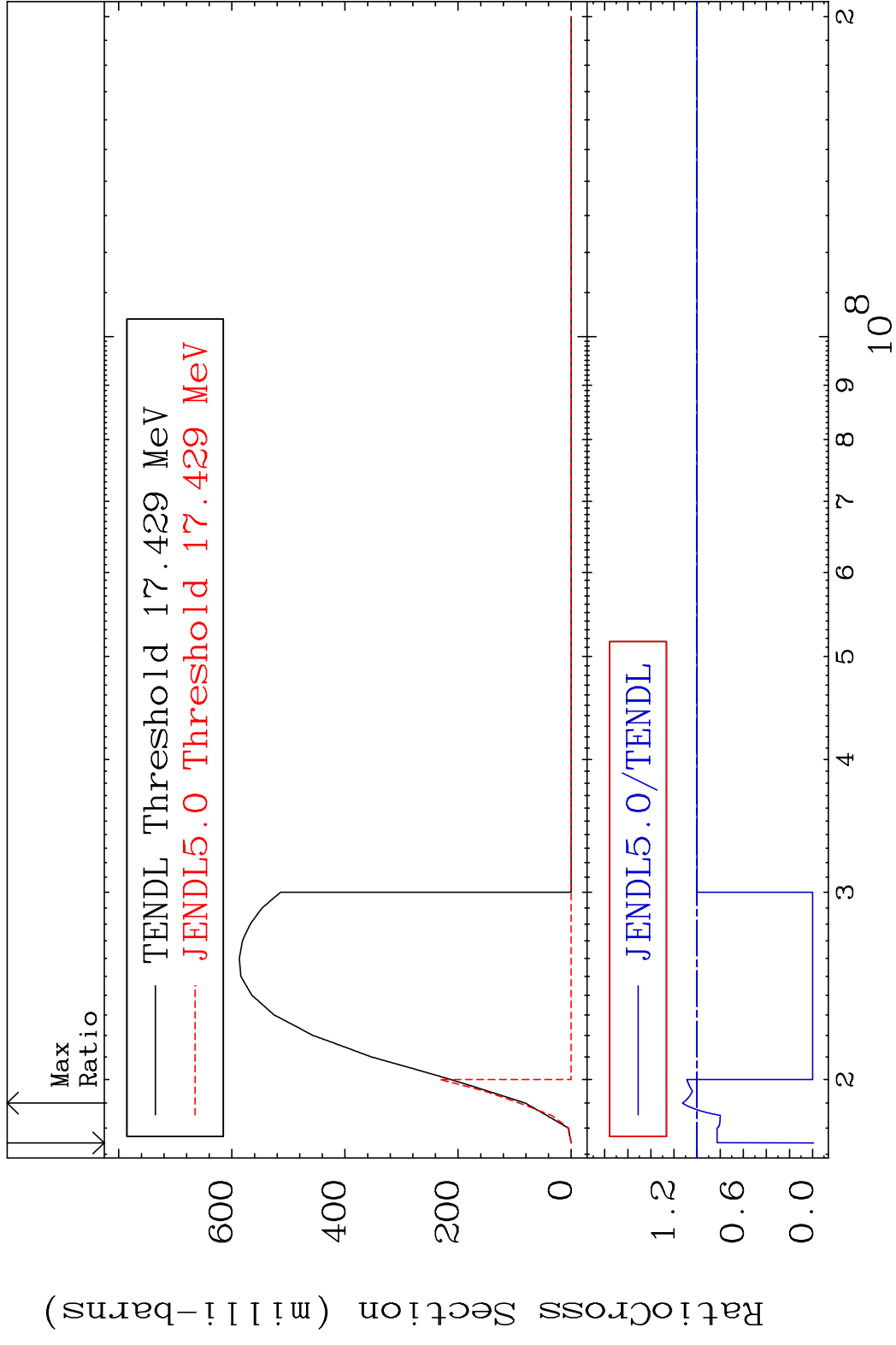
71 Incident Energy (eV) 43-Tc-97m

MAT 4320 (n,2n):43-Tc-96m1 43-Tc-97m
 Radionuclide Production Cross Section Ratio 25.21 %

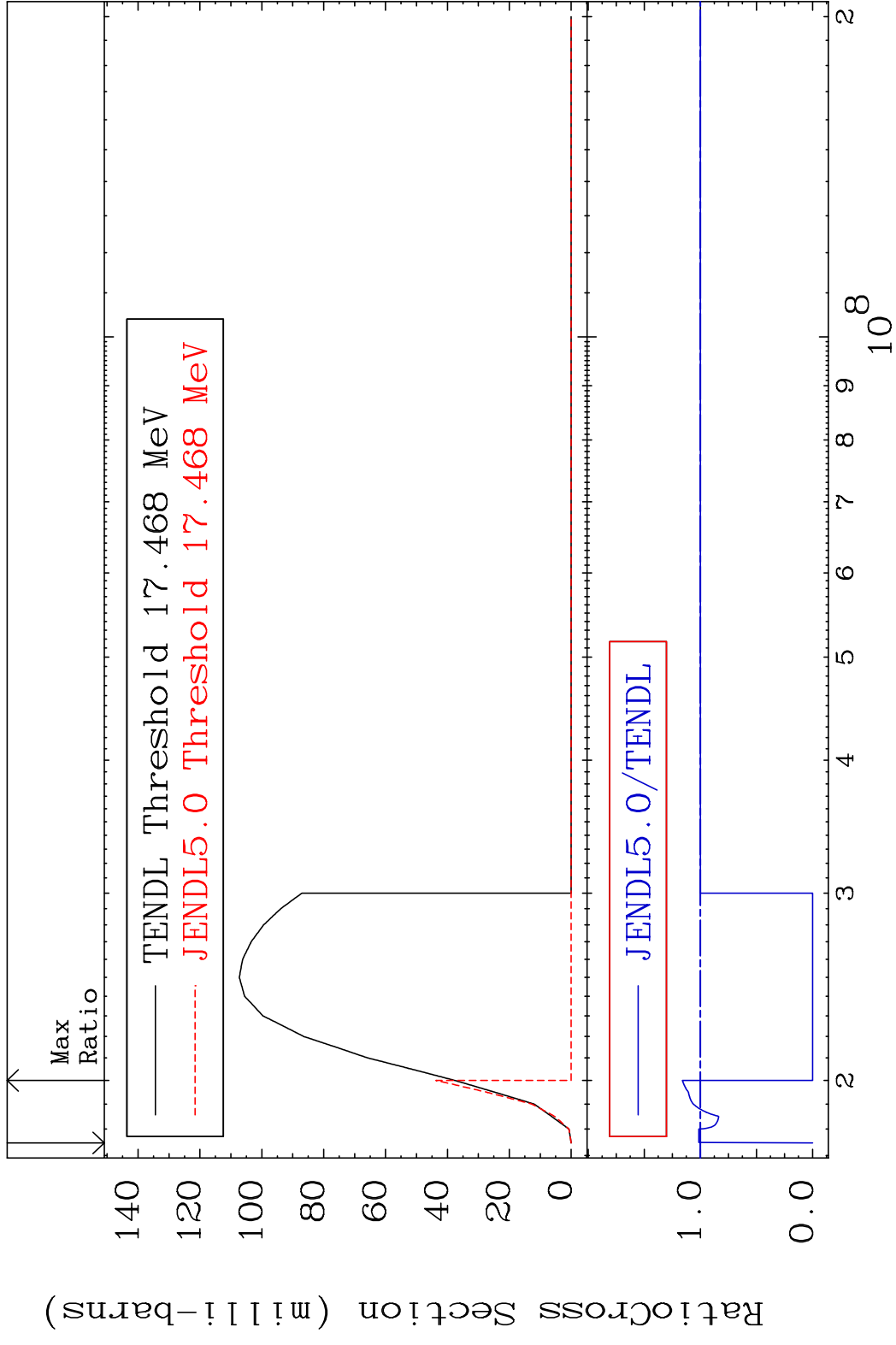


72 Incident Energy (eV) 43-Tc-97m

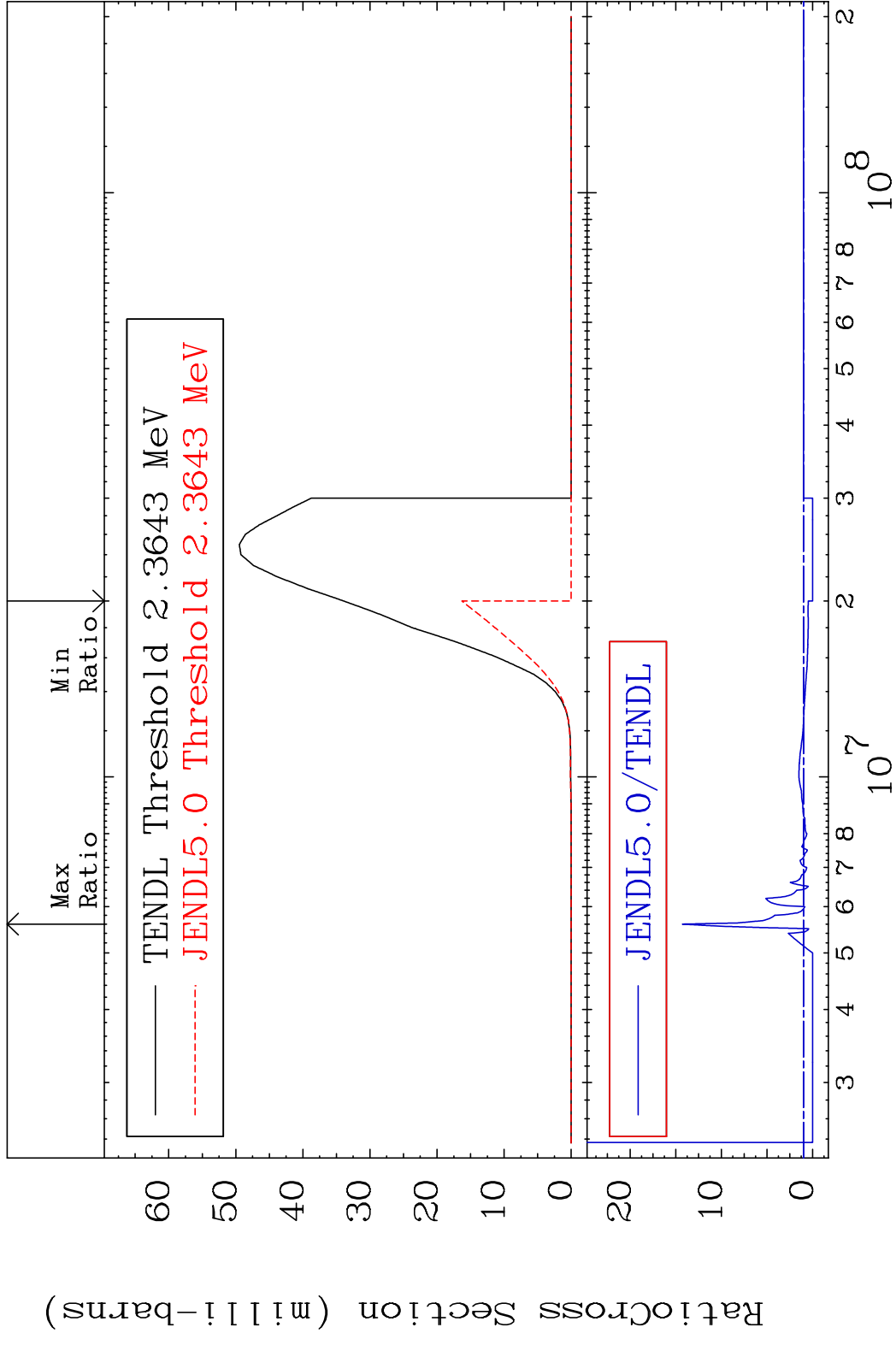
MAT 4320 (n,3n):43-Tc-95g 43-Tc-97m
 Radionuclide Production Cross Section 180.0 mb 12.75 %



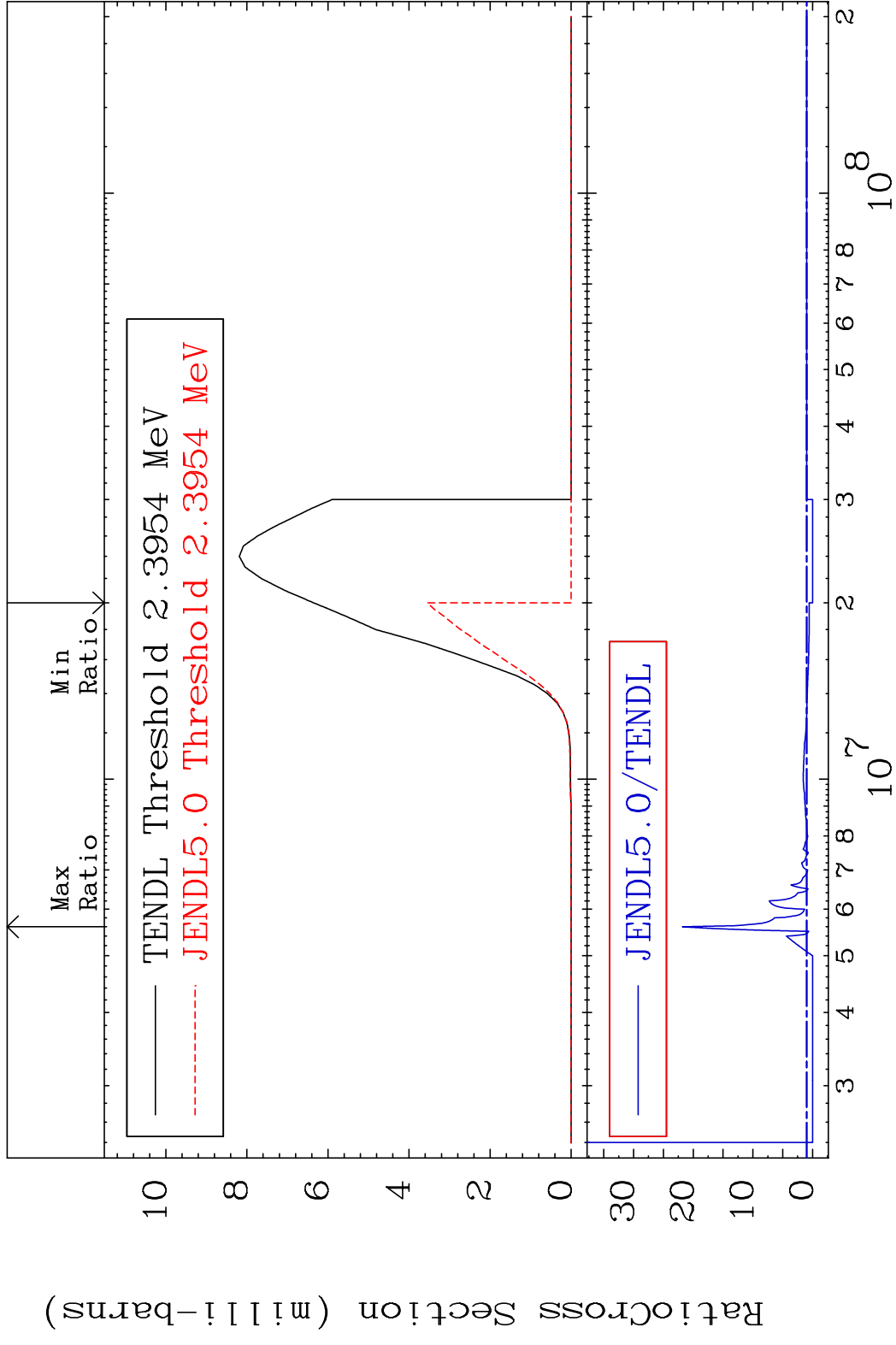
MAT 4320 (n,3n):43-Tc-95m1 43-Tc-97m
 Radionuclide Production Cross Section 180.01 dth 16.04 %



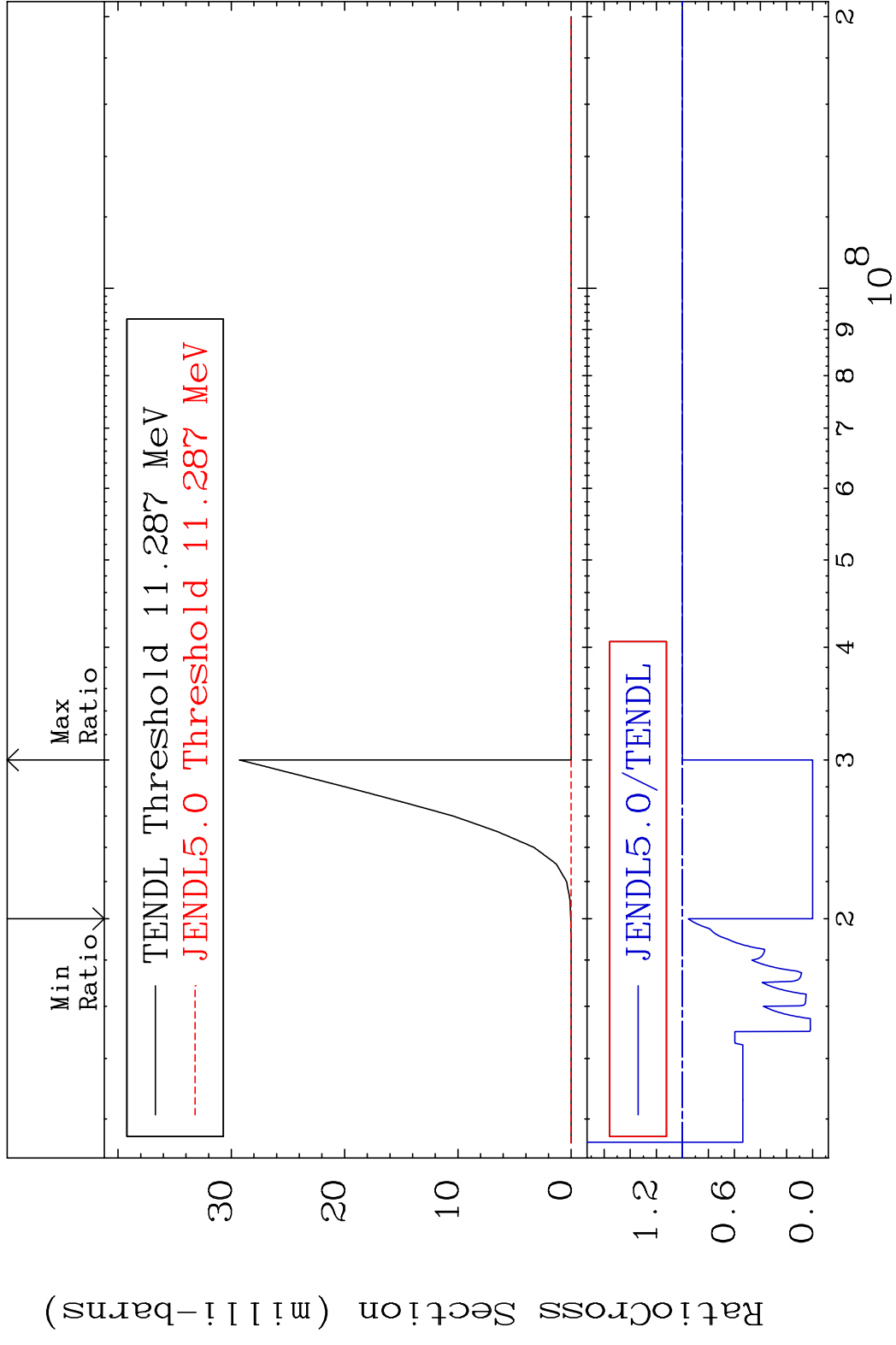
MAT 4320 (n, n') α : 41-Nb-93g 43-Tc-97m
 Radionuclide Production Cross Section 1328. %



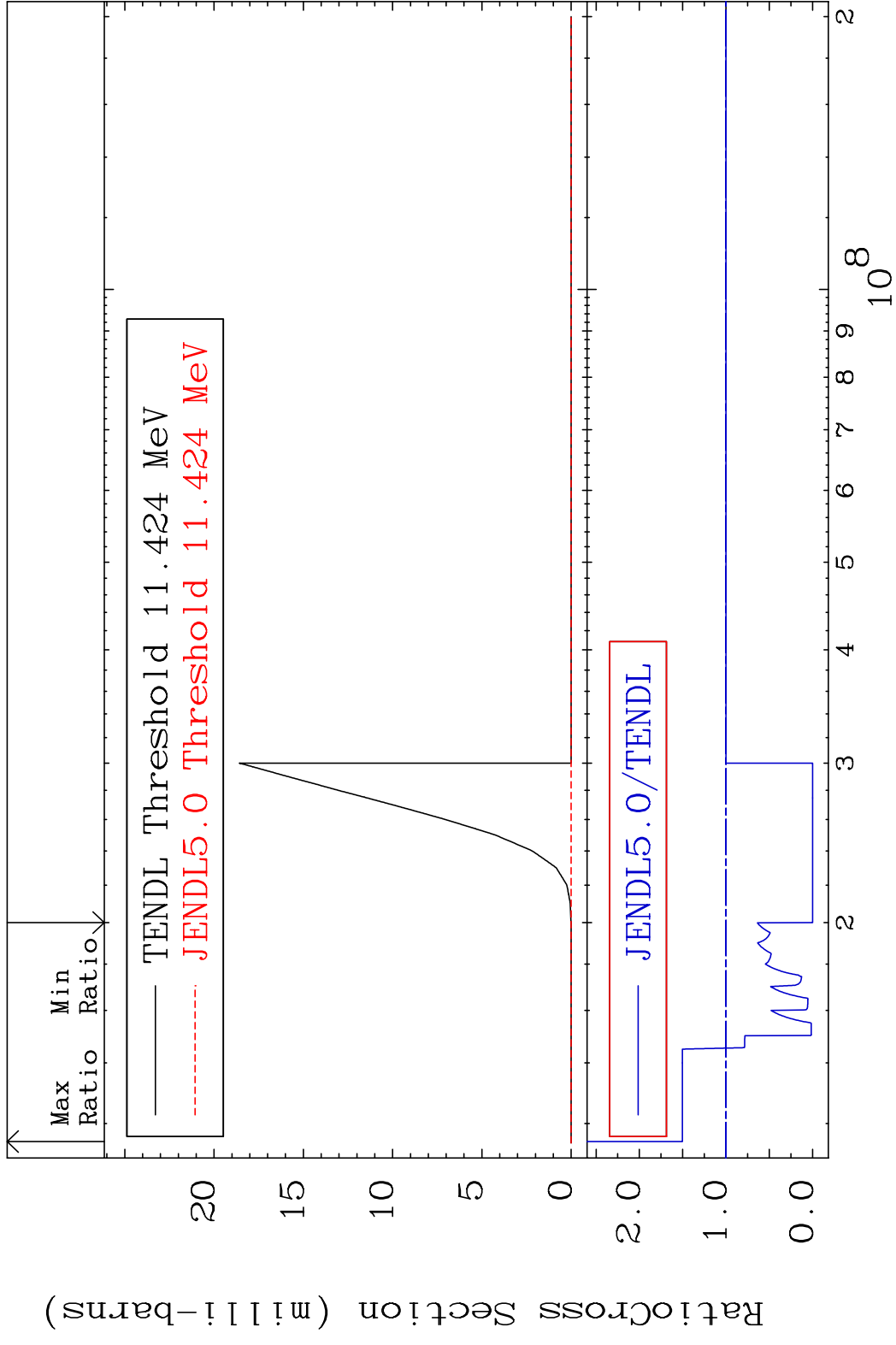
MAT 4320 (n, n') α :41-Nb-93m1 43-Tc-97m
 Radionuclide Production Cross Section 1800.0 dth 2082. %



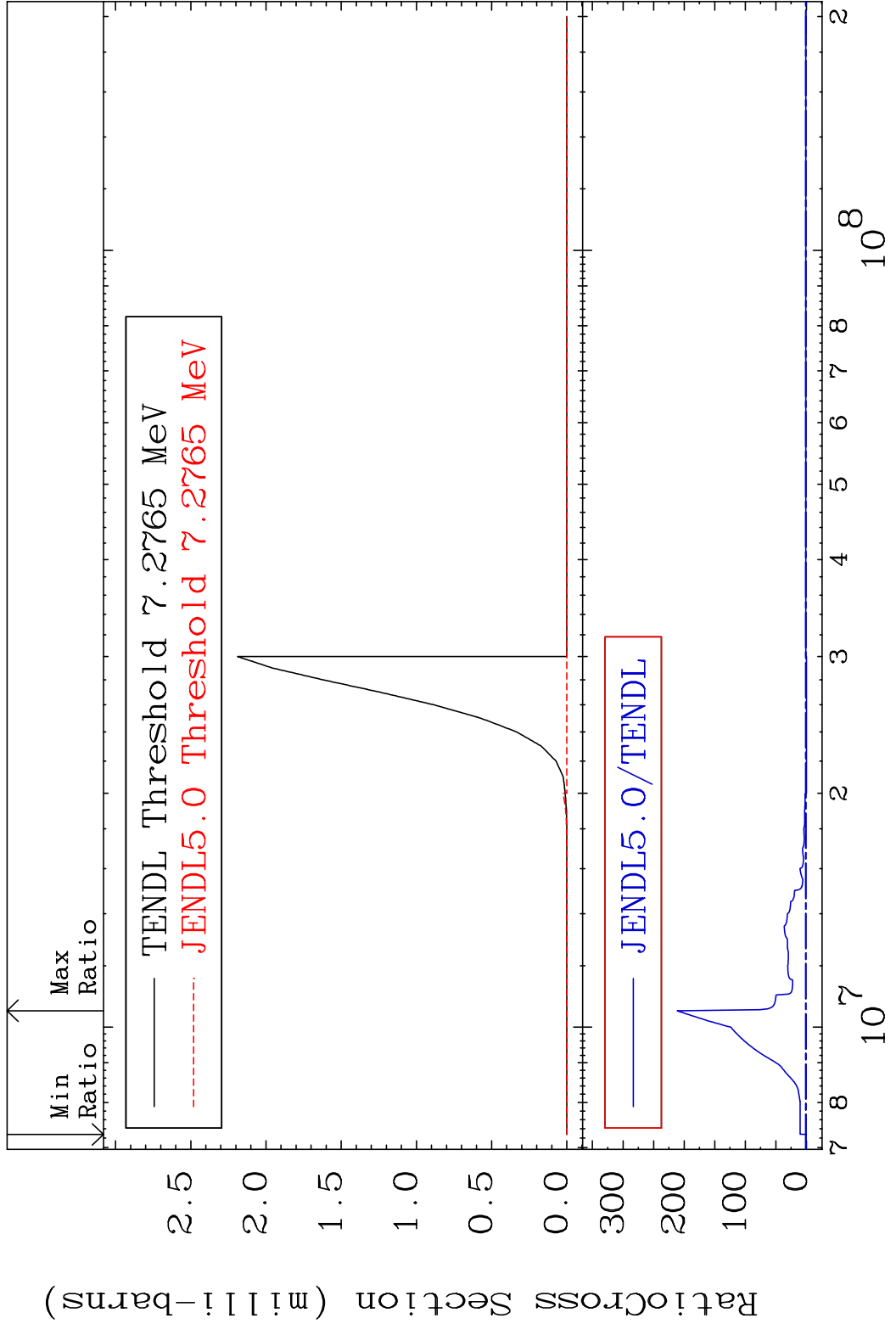
MAT 4320 (n, 2n) α : 41-Nb-92g 43-Tc-97m
 Radionuclide Production Cross Section 180.0 mb 0.000 %



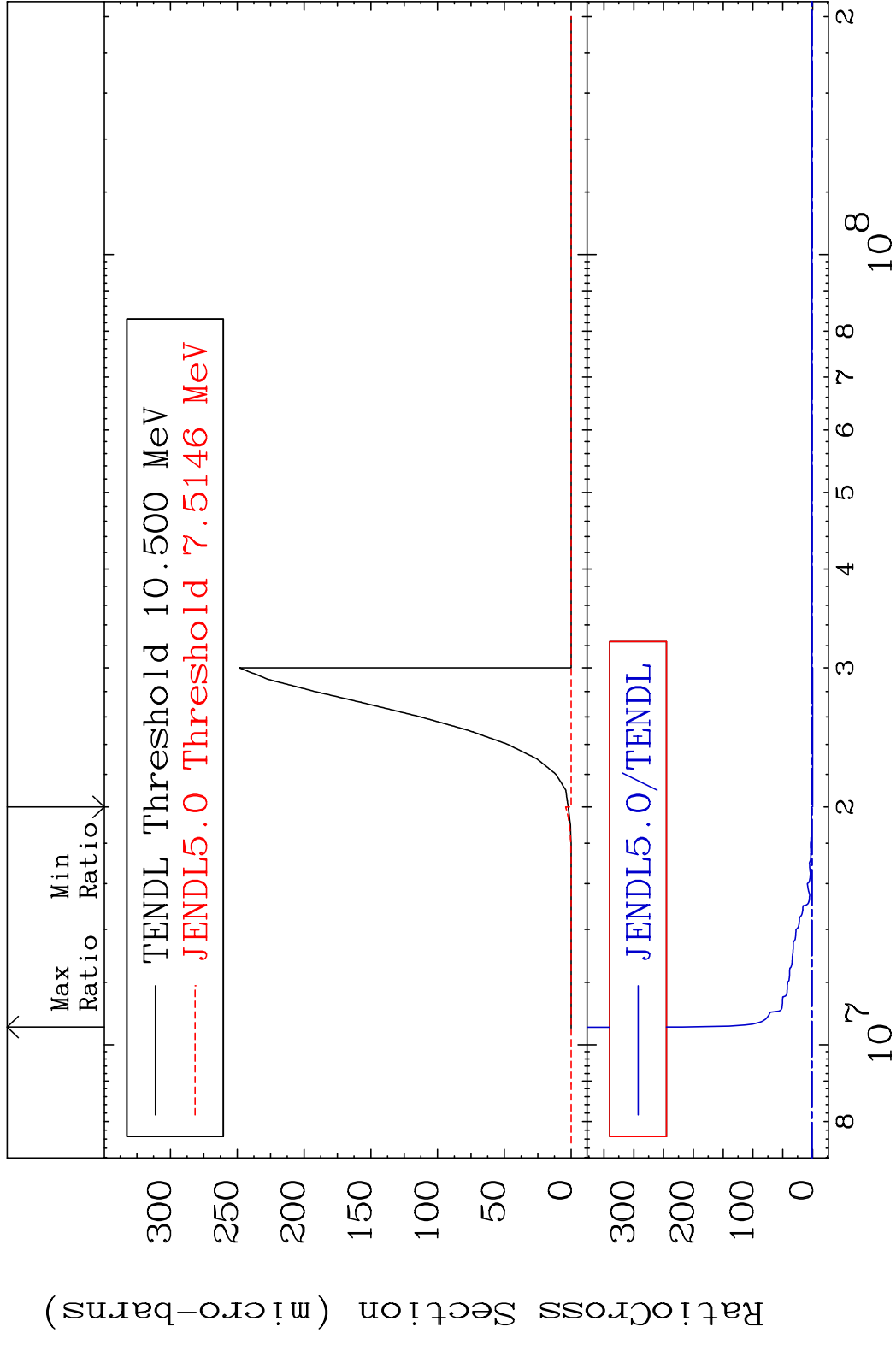
MAT 4320 (n,2n) α :41-Nb-92m1 43-Tc-97m
 Radionuclide Production Cross Section 180.0 mb to 50.37 %



MAT 4320 (n, He-3): 41-Nb-95g 43-Tc-97m
 Radionuclide Production Cross Section 100.00 dth 9999. %



MAT 4320 (n, He-3) : 41-Nb-95m1 43-Tc-97m
 Radionuclide Production Cross Section Ratio 9999. %



80 Incident Energy (eV) 43-Tc-97m