

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

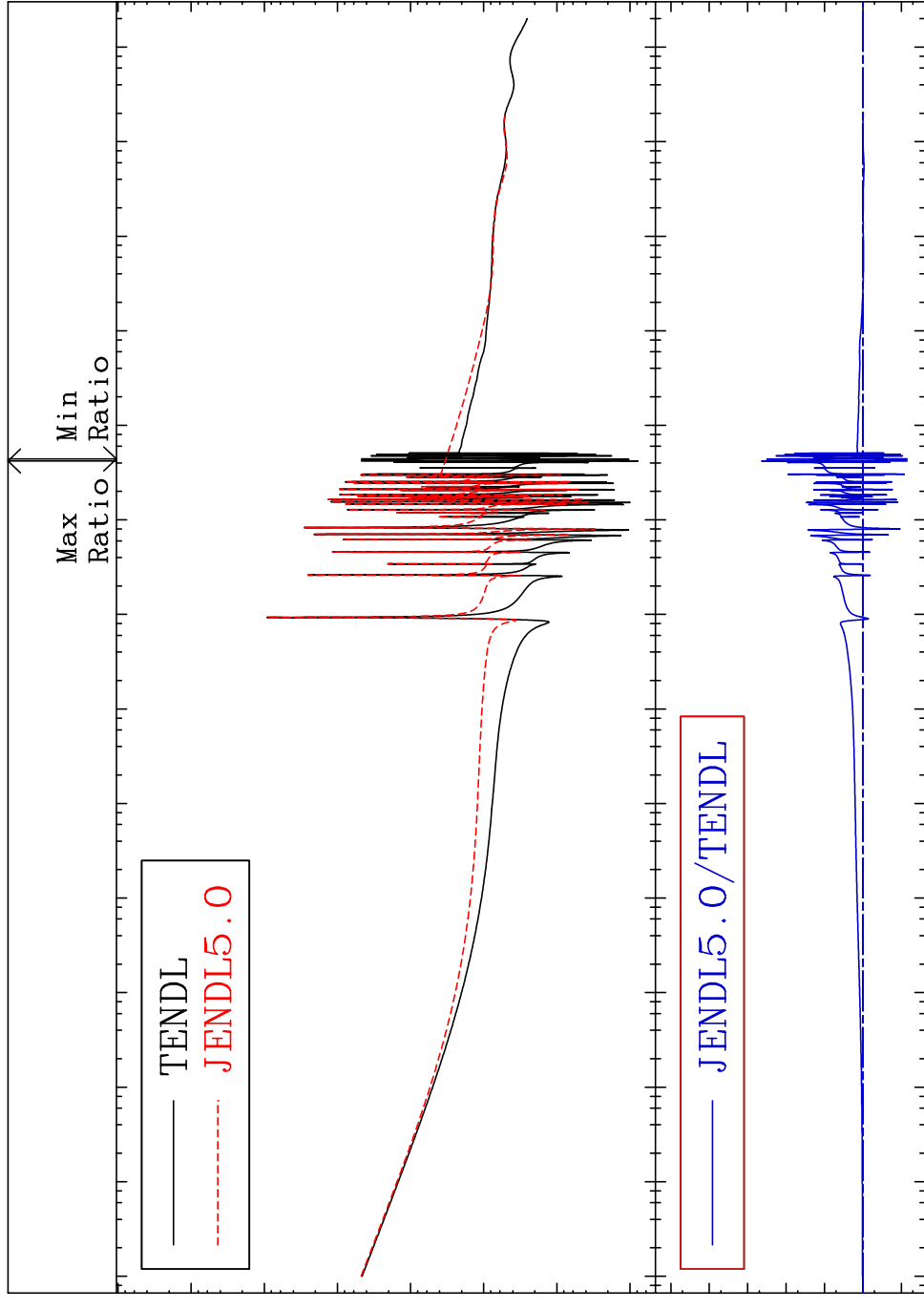
Press Mouse Button to Start

MAT 6255

62-Sm-154

Total

Cross Section -92.95 To 9999. %



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

Cross Section (barns)

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

1

Incident Energy (eV)

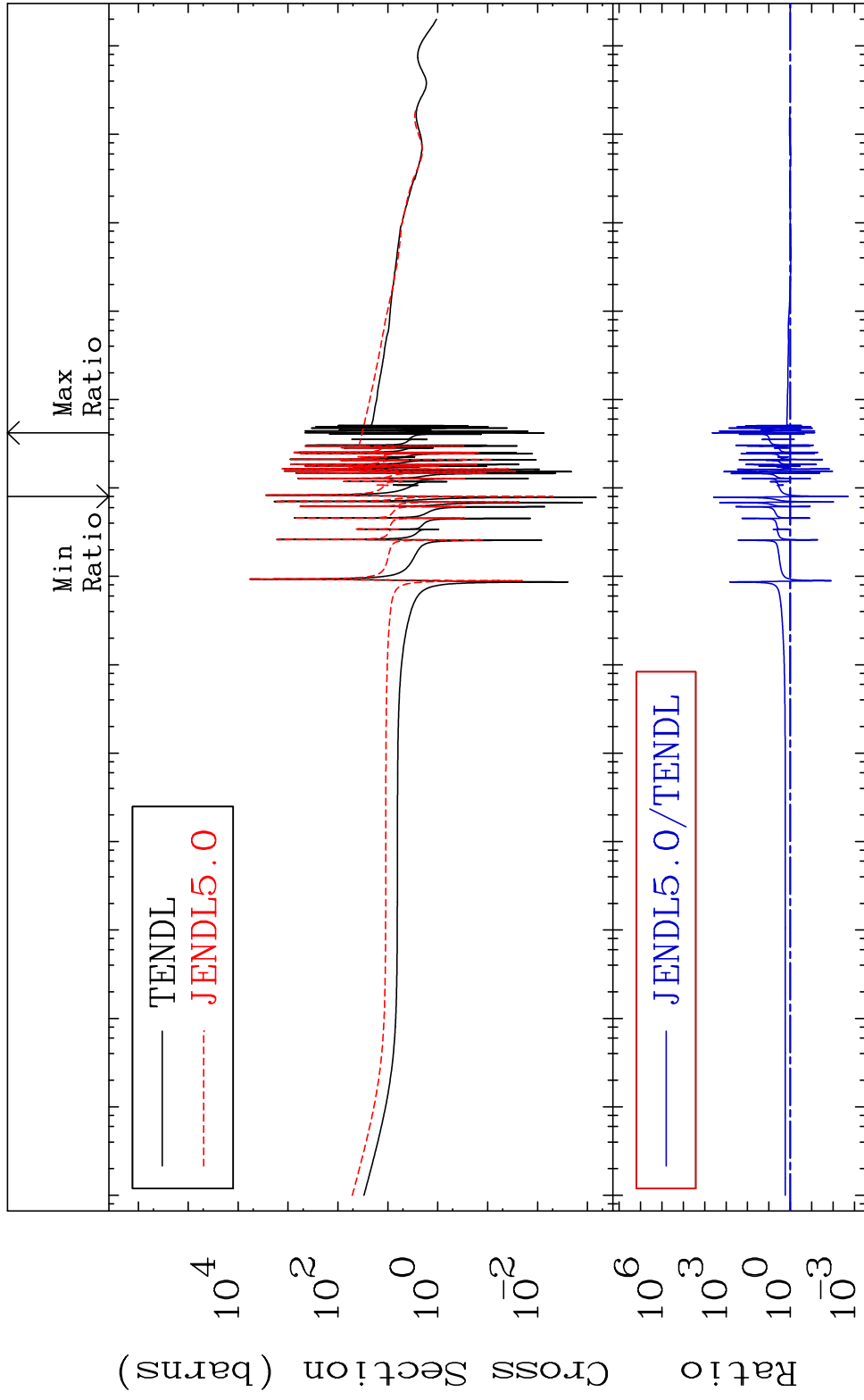
62-Sm-154

MAT 6255

Elastic

62-Sm-154

Cross Section -99.81 To 9999. %

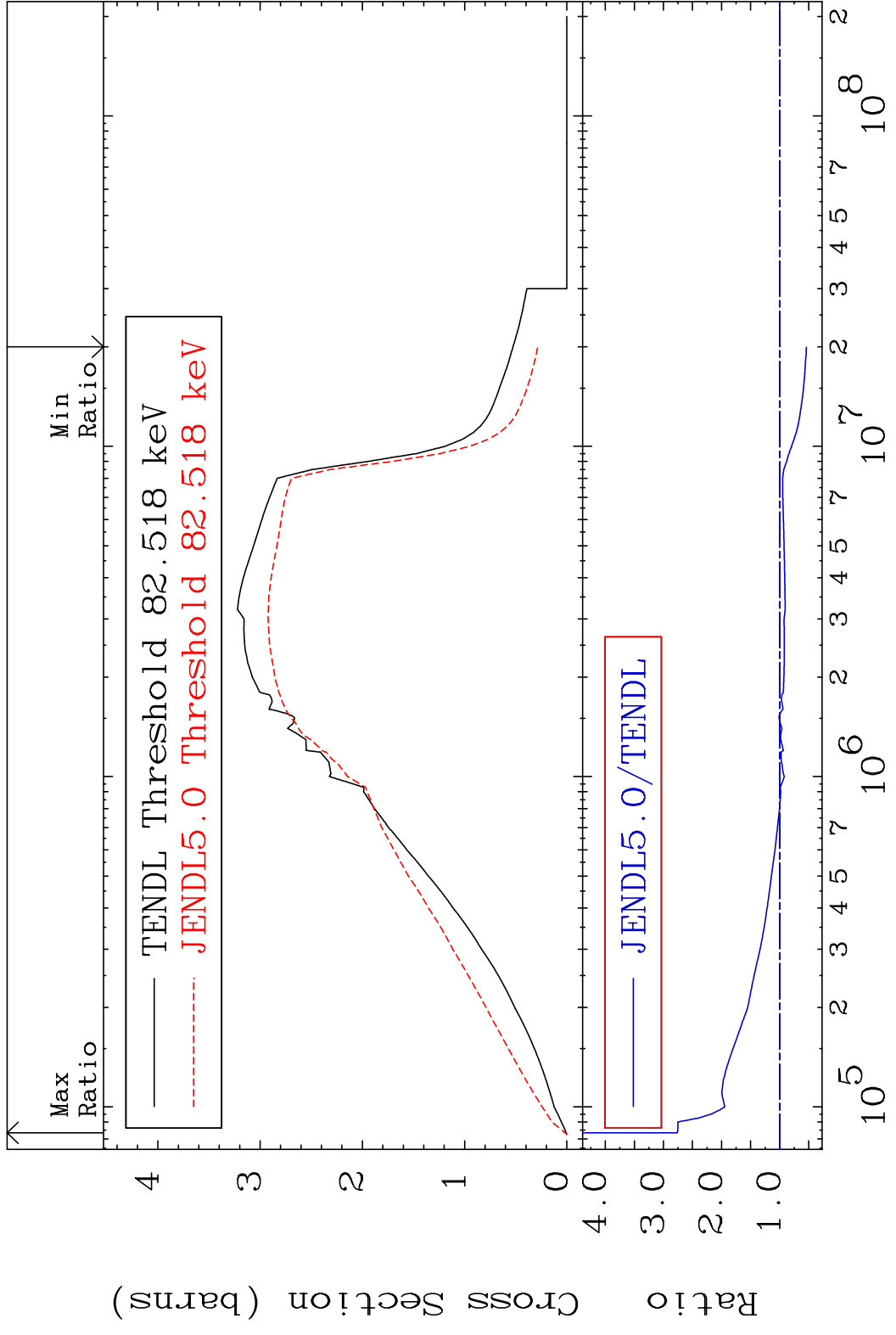


2

Incident Energy (eV)

62-Sm-154

MAT 6255 Inelastic 62-Sm-154
Cross Section -45.86 To 176.3 %



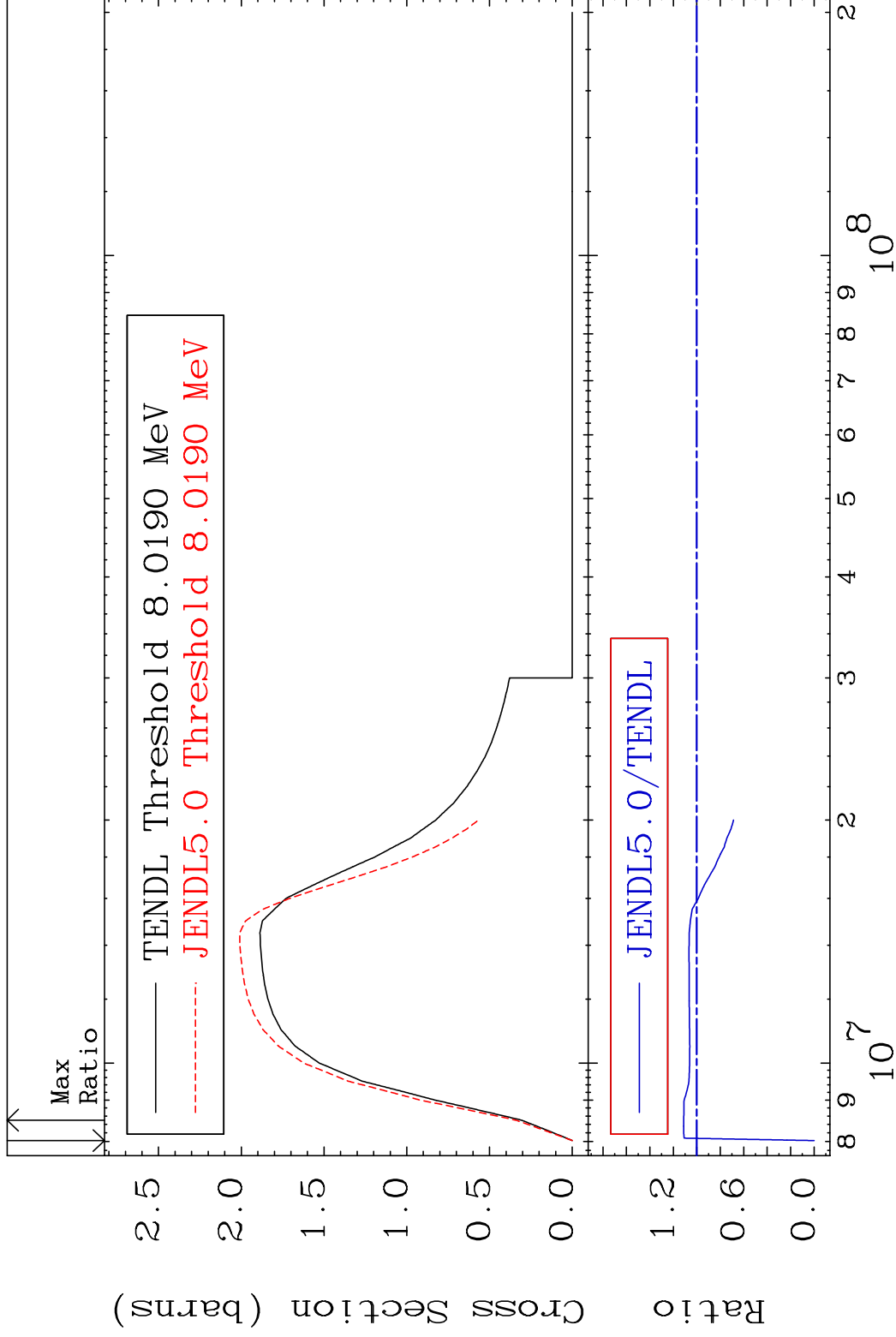
3 62-Sm-154

MAT 6255

(n,2n)

62-Sm-154

Cross Section -100.0 To 11.20 %

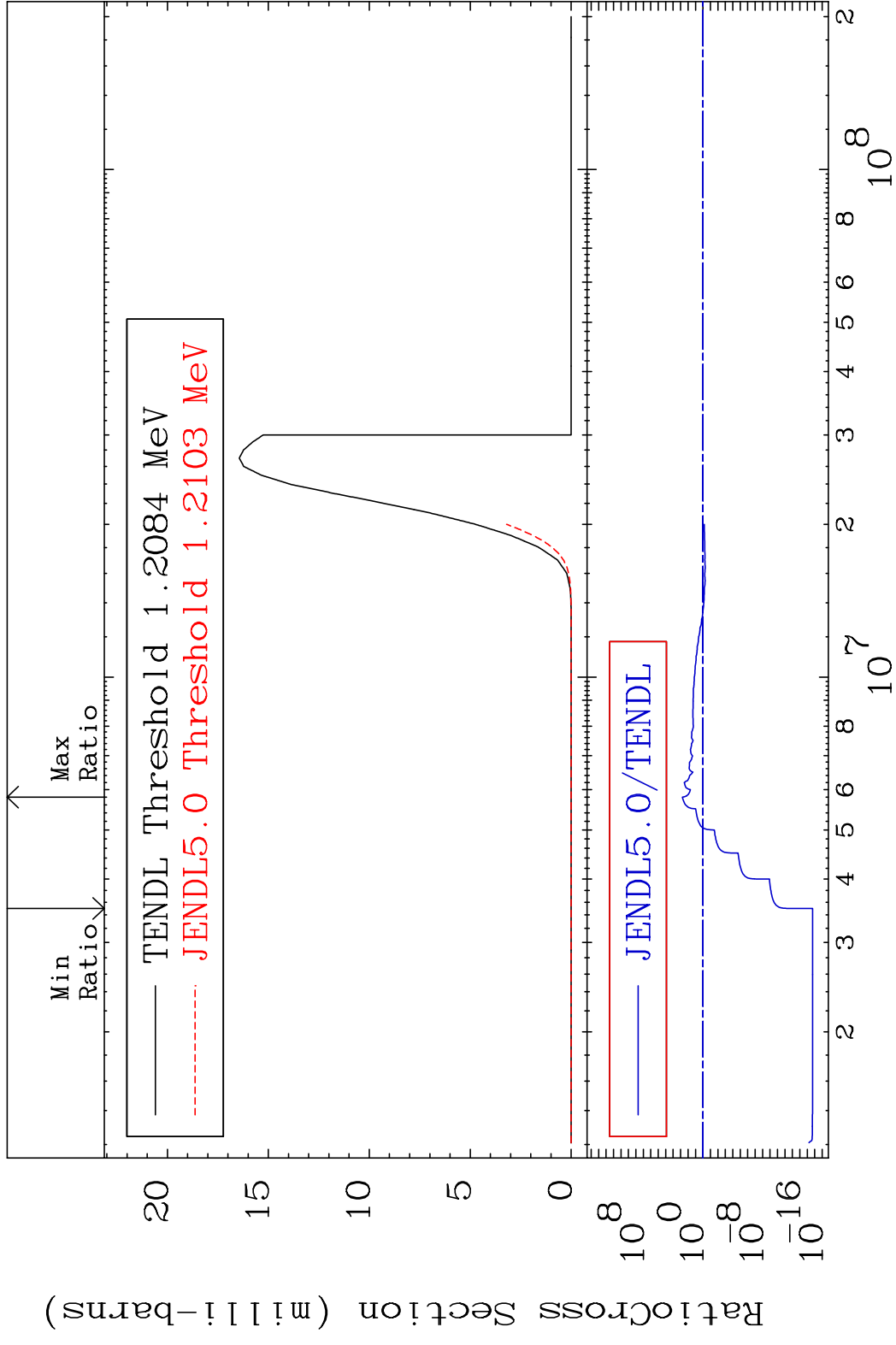


4

Incident Energy (eV)

62-Sm-154

MAT 6255 (n, n') α 62-Sm-154
 Cross Section -100.0 To 9999. %

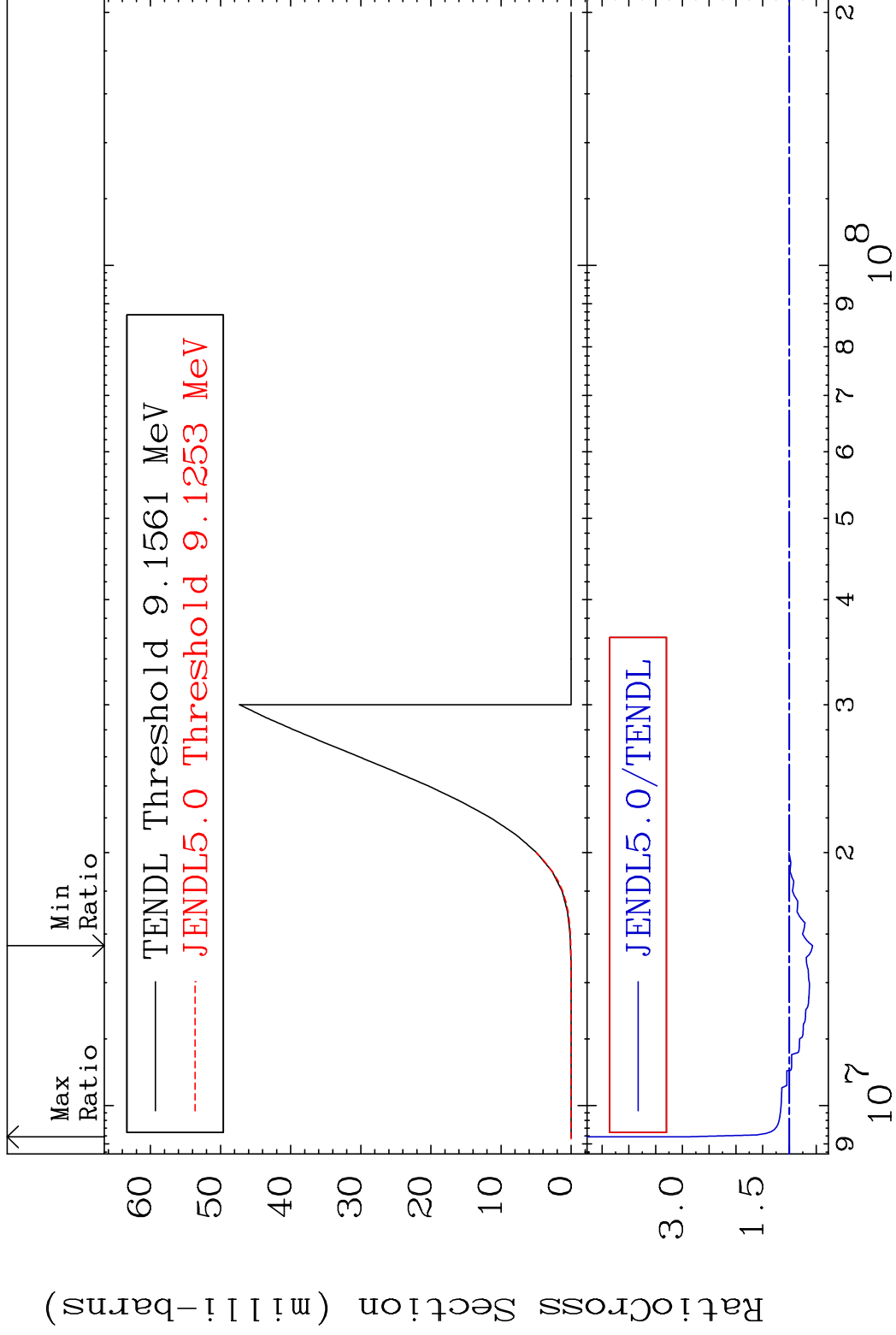


MAT 6255

(n, n') p

62-Sm-154

Cross Section -43.22 To 200.0 %



7

Incident Energy (eV)

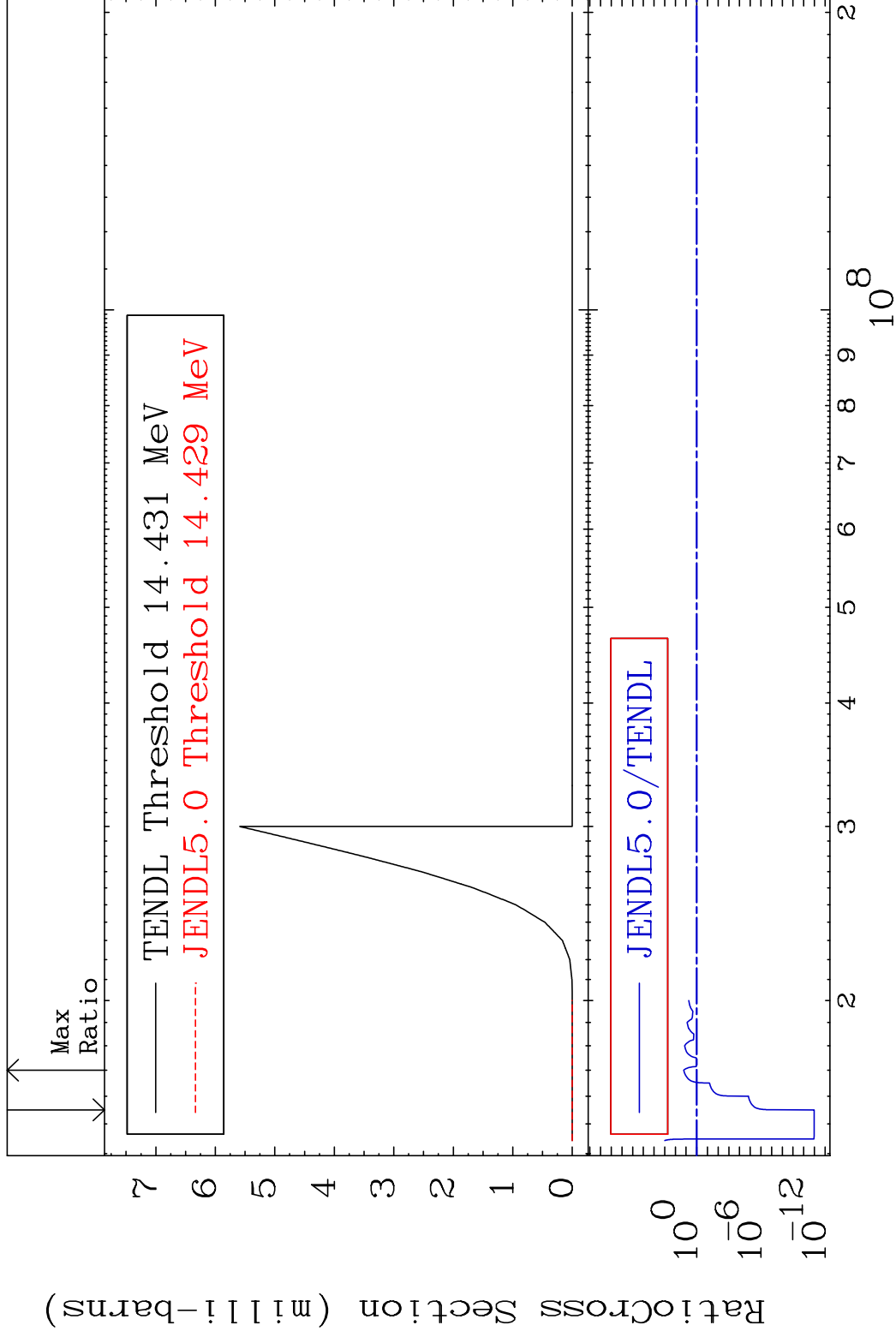
62-Sm-154

MAT 6255

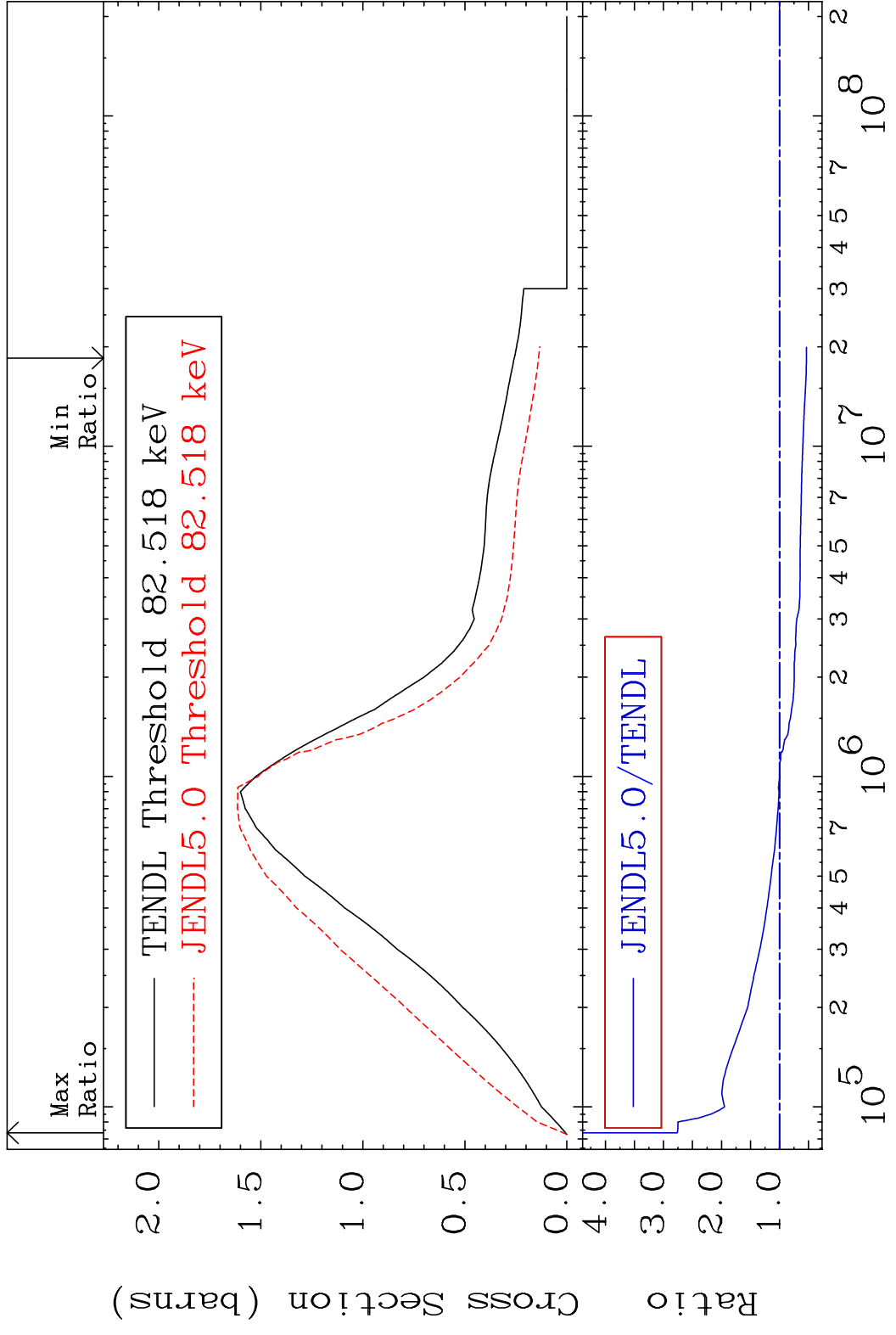
(n, n') d

62-Sm-154

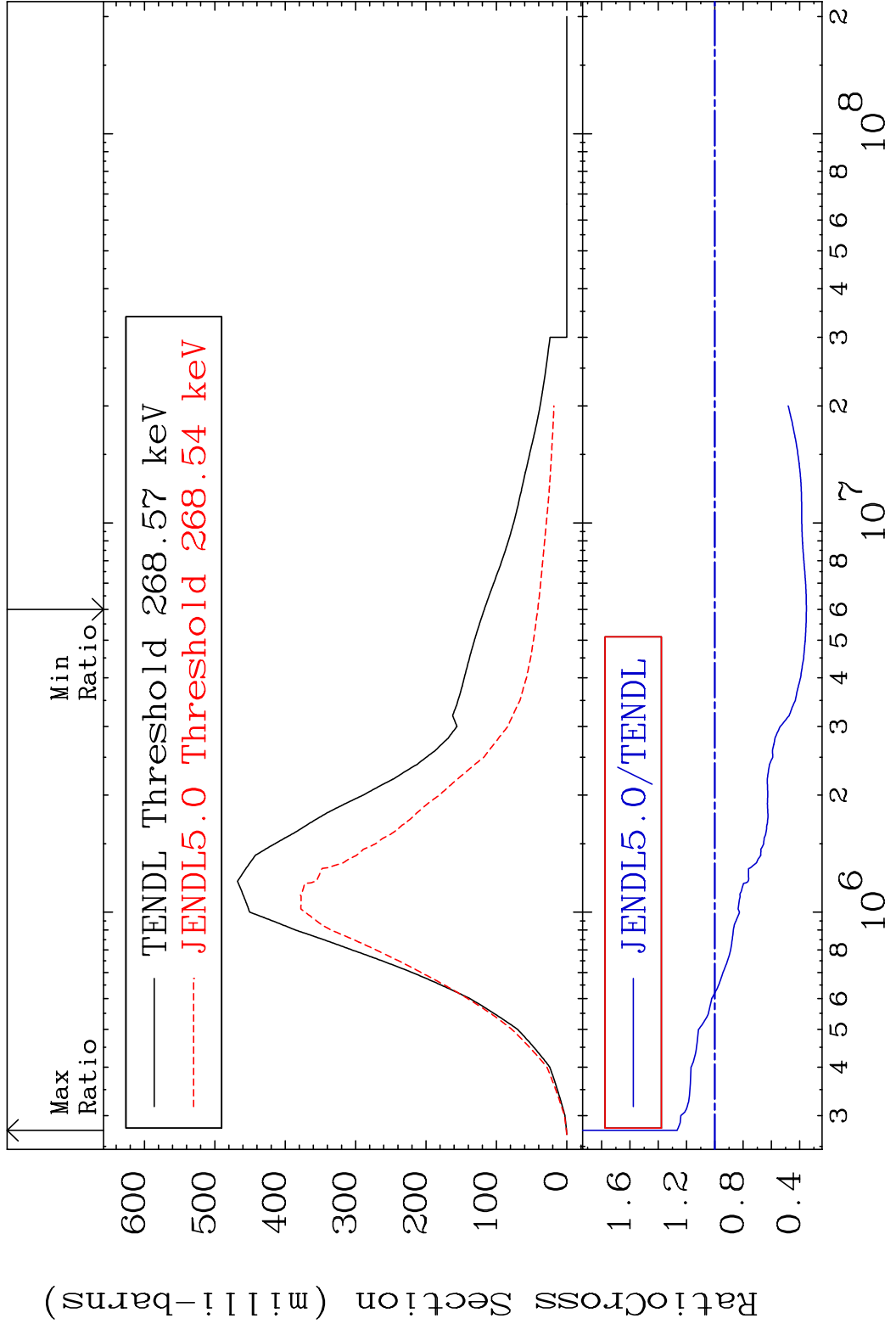
Cross Section -100.0 To 1588. %



MAT 6255 MT= 51 (n, n') Level 62-Sm-154
 Cross Section -46.21 To 176.3 %

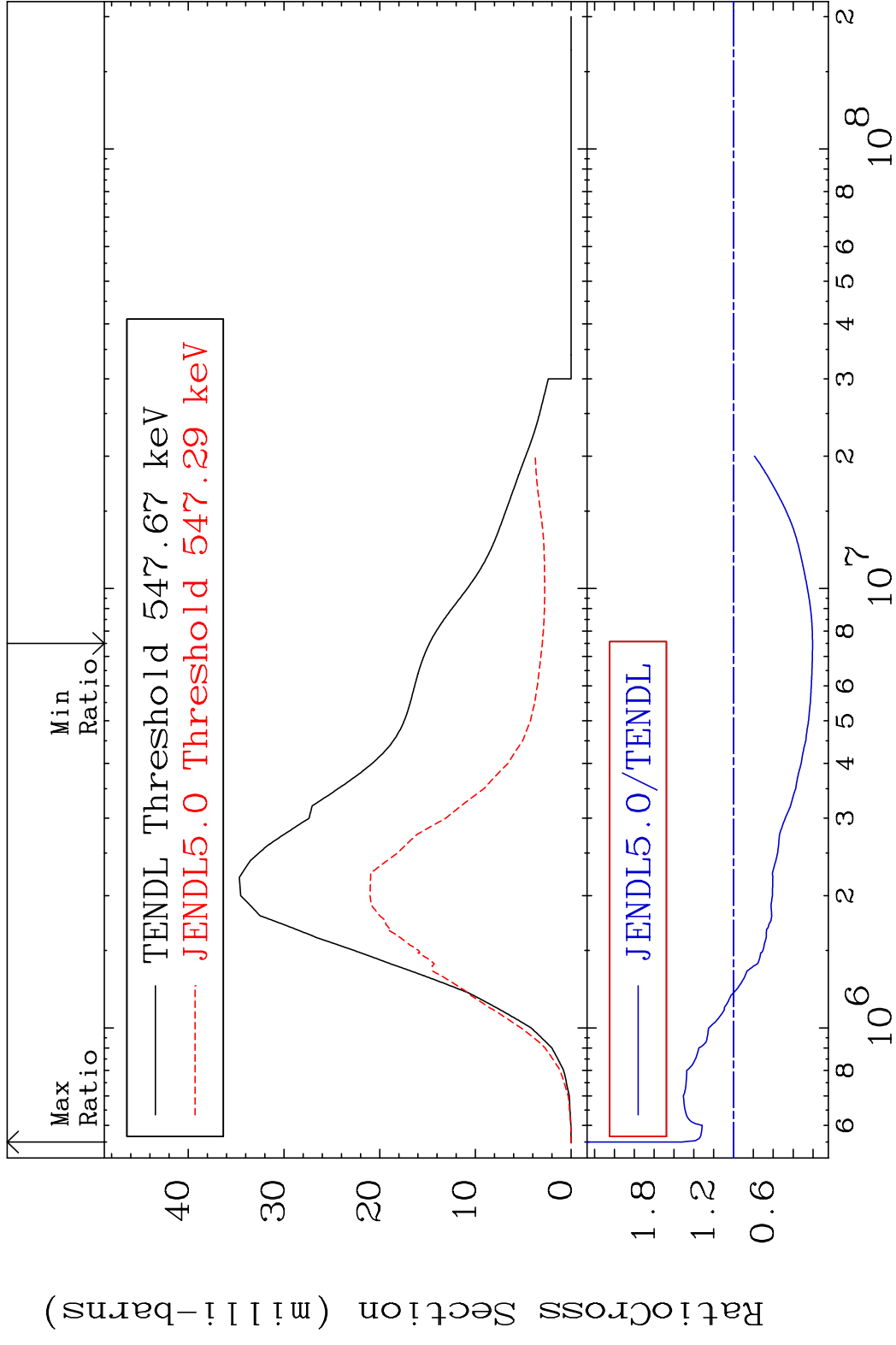


MAT 6255 MT= 52 (n,n') Level 62-Sm-154
 Cross Section -64.73 To 26.62 %

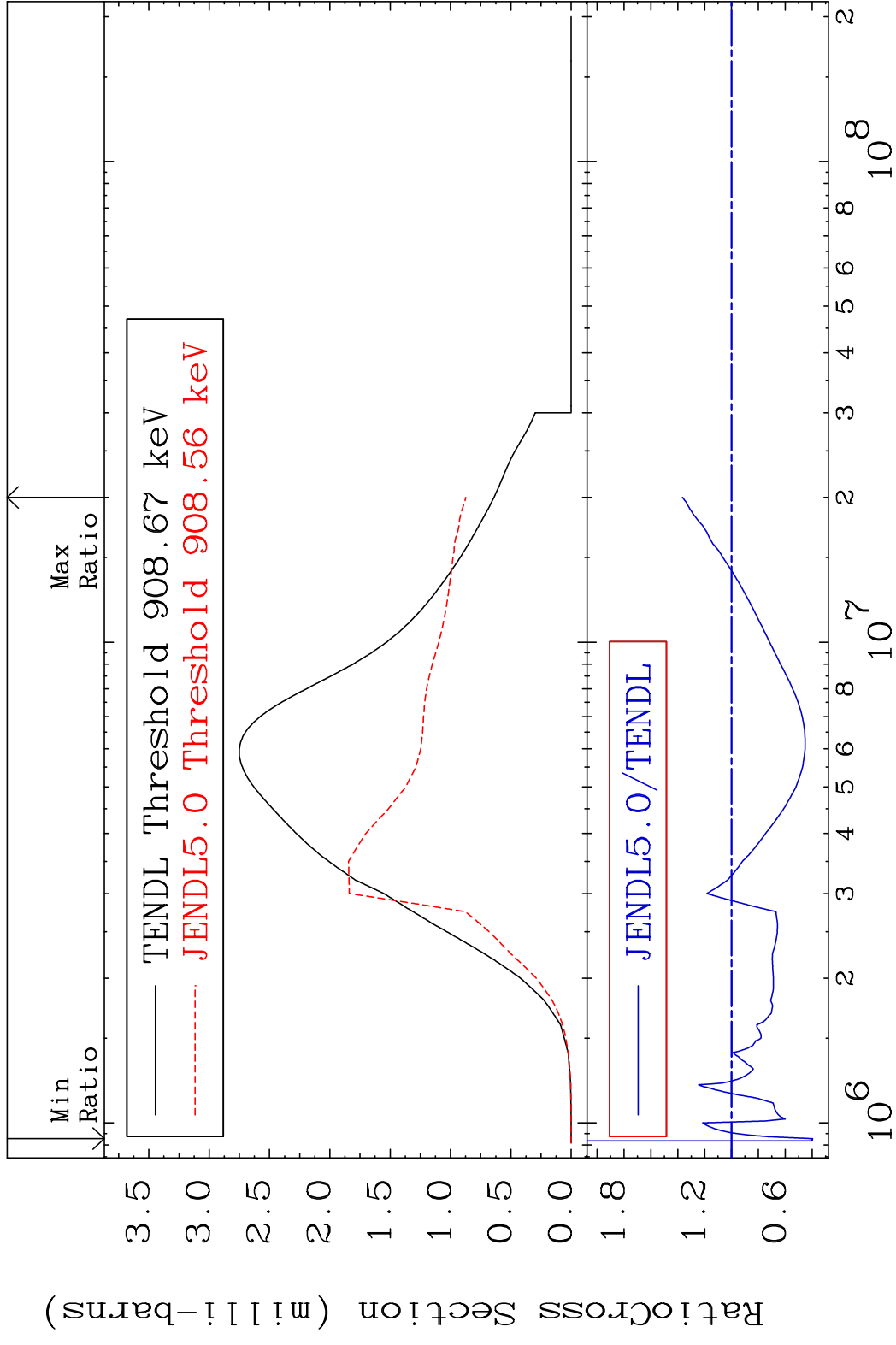


10 Incident Energy (eV) 62-Sm-154

MAT 6255 MT= 53 (n, n') Level 62-Sm-154
 Cross Section -79.59 To 51.58 %

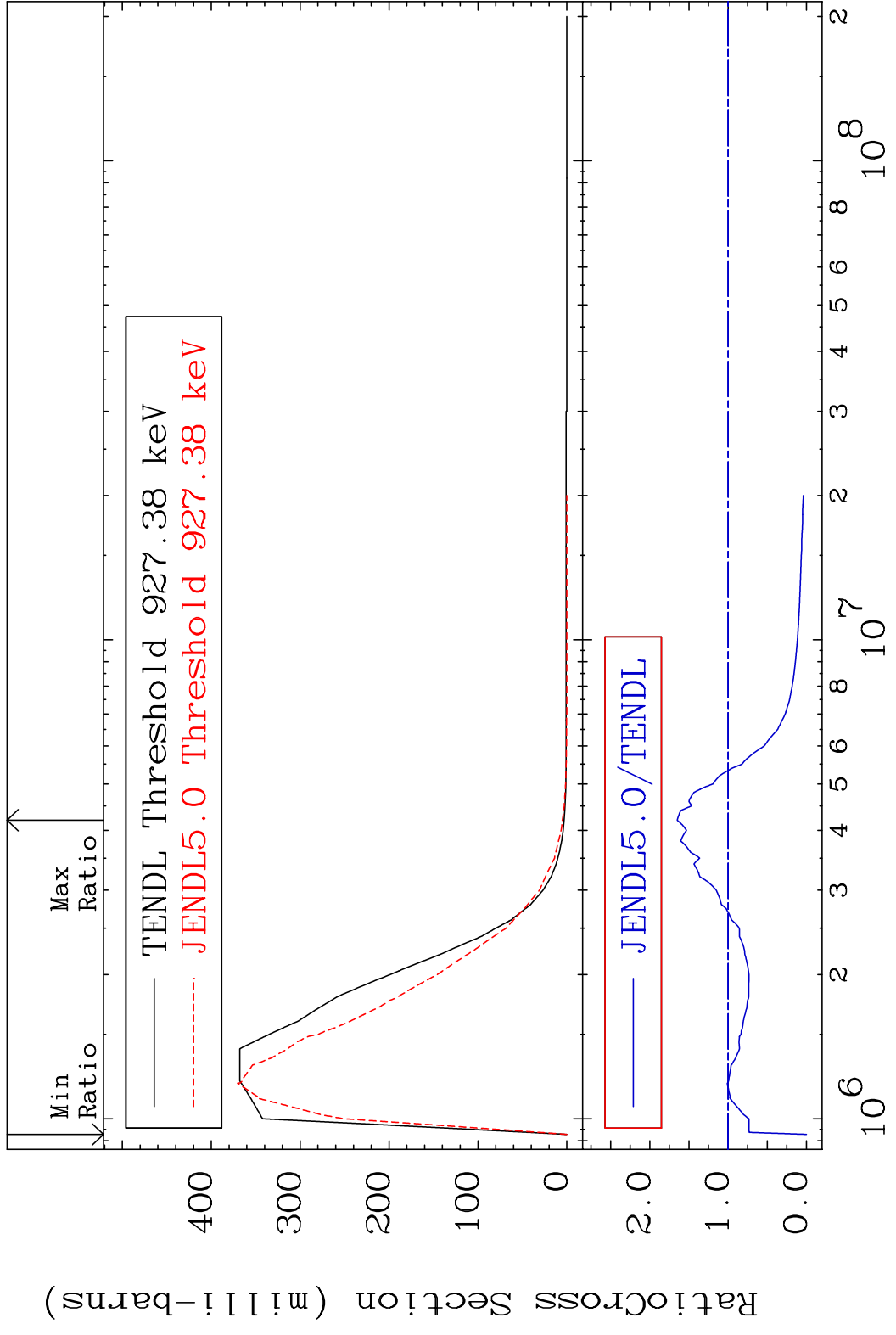


MAT 6255 MT= 54 (n, n') Level 62-Sm-154
 Cross Section -60.24 To 36.56 %



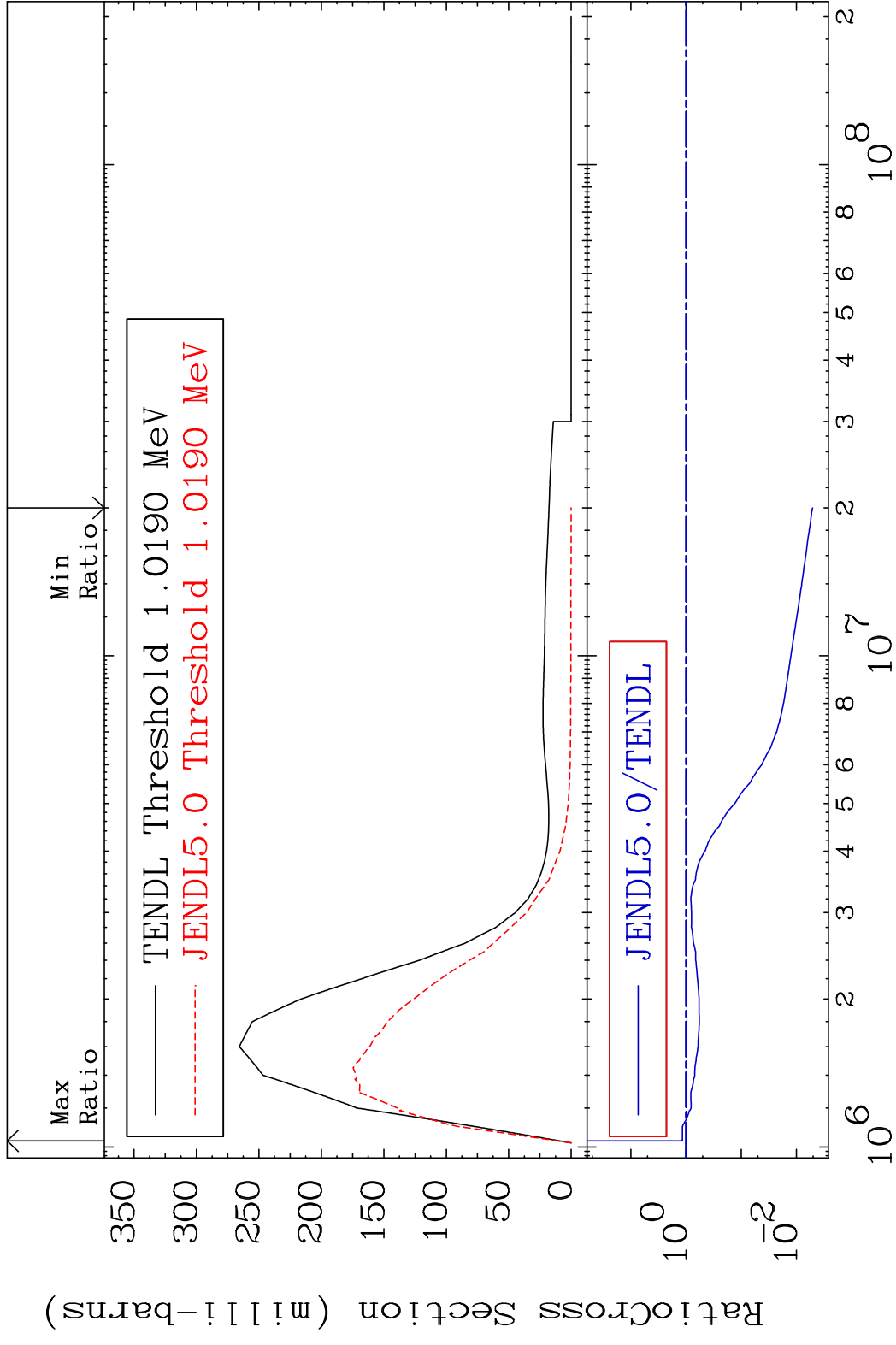
12 Incident Energy (eV) 62-Sm-154

MAT 6255 MT= 55 (n,n') Level 62-Sm-154
 Cross Section -100.0 To 64.99 %



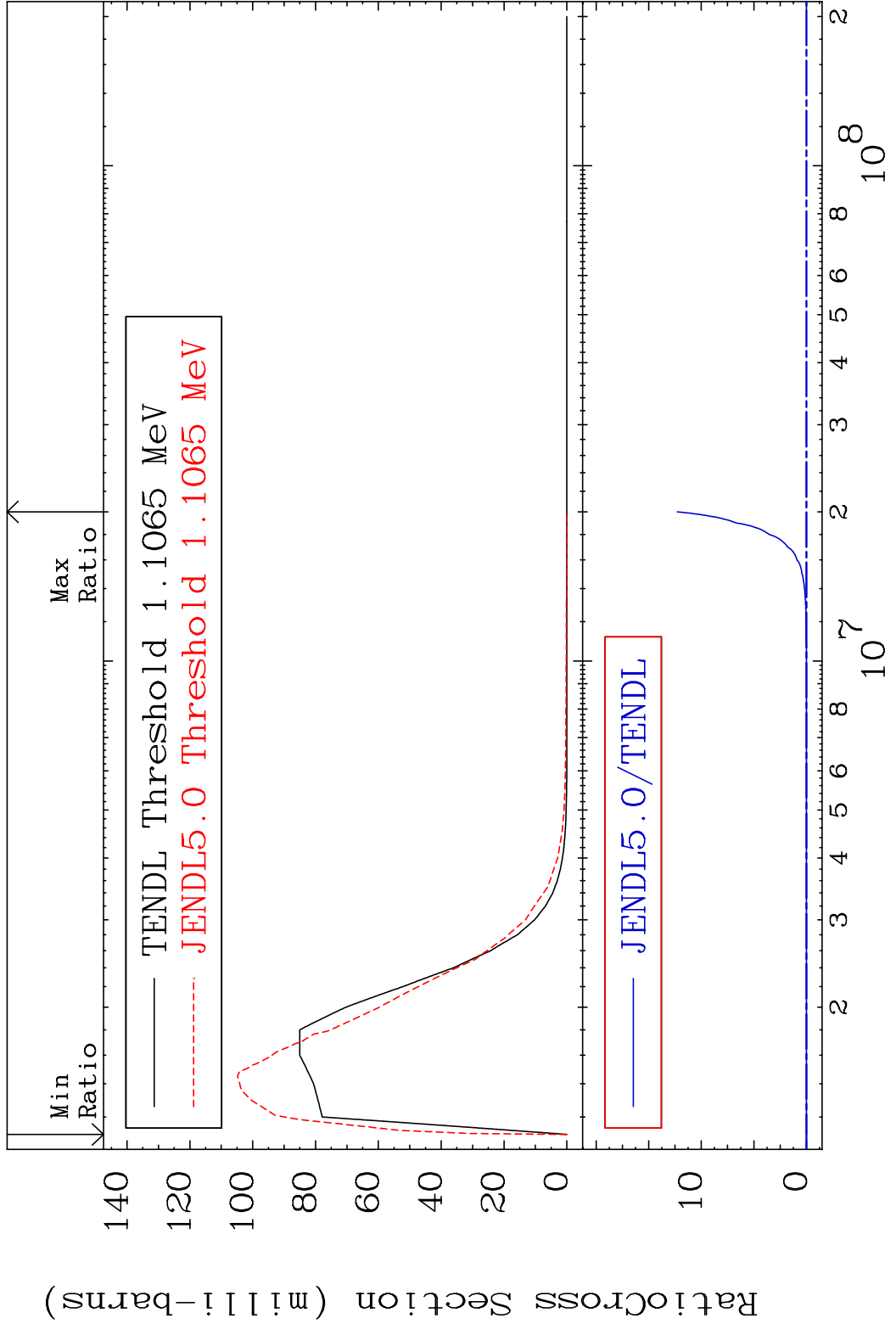
13 Incident Energy (eV) 62-Sm-154

MAT 6255 MT= 56 (n, n') Level 62-Sm-154
 Cross Section -99.49 To 16.98 %

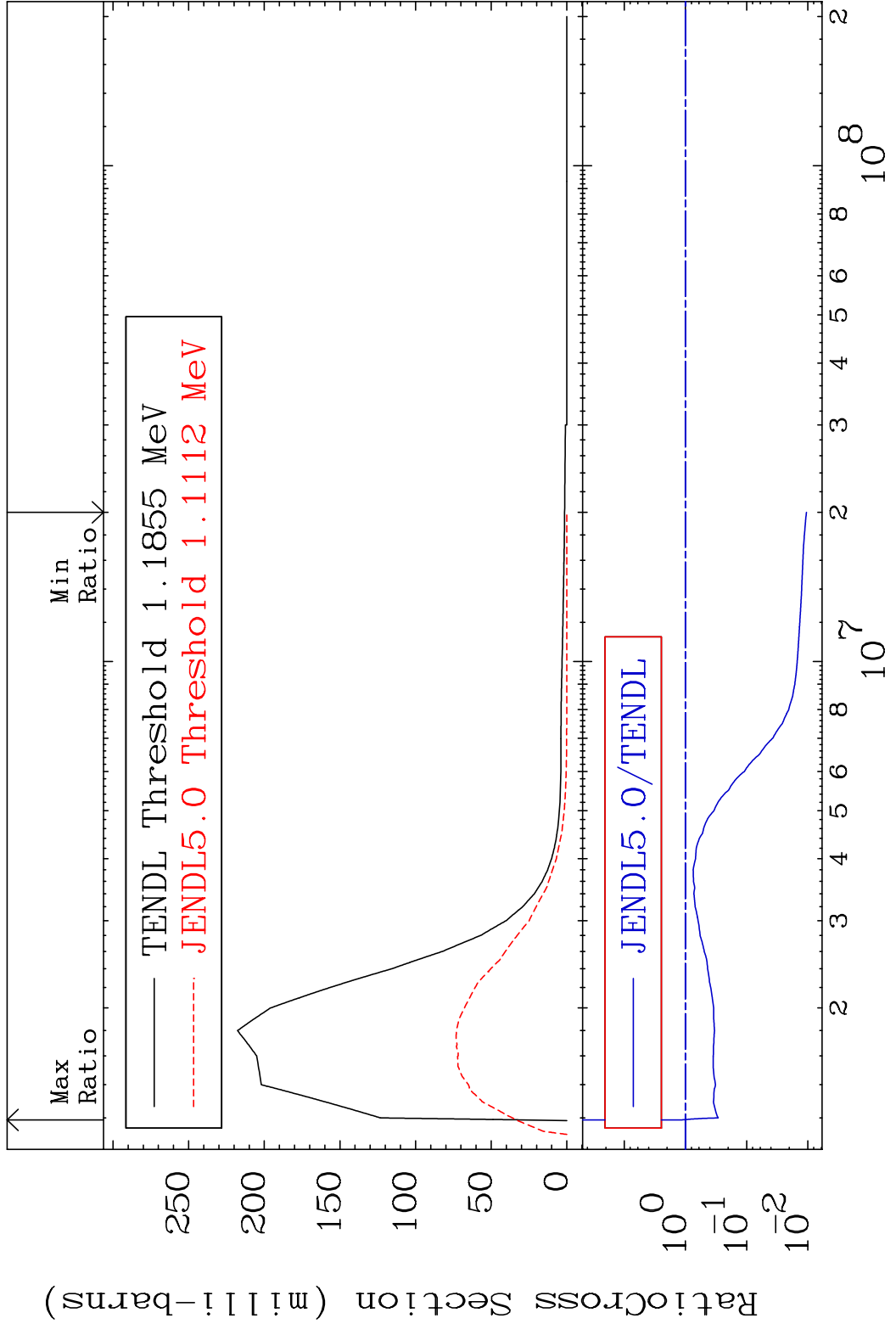


14 Incident Energy (eV) 62-Sm-154

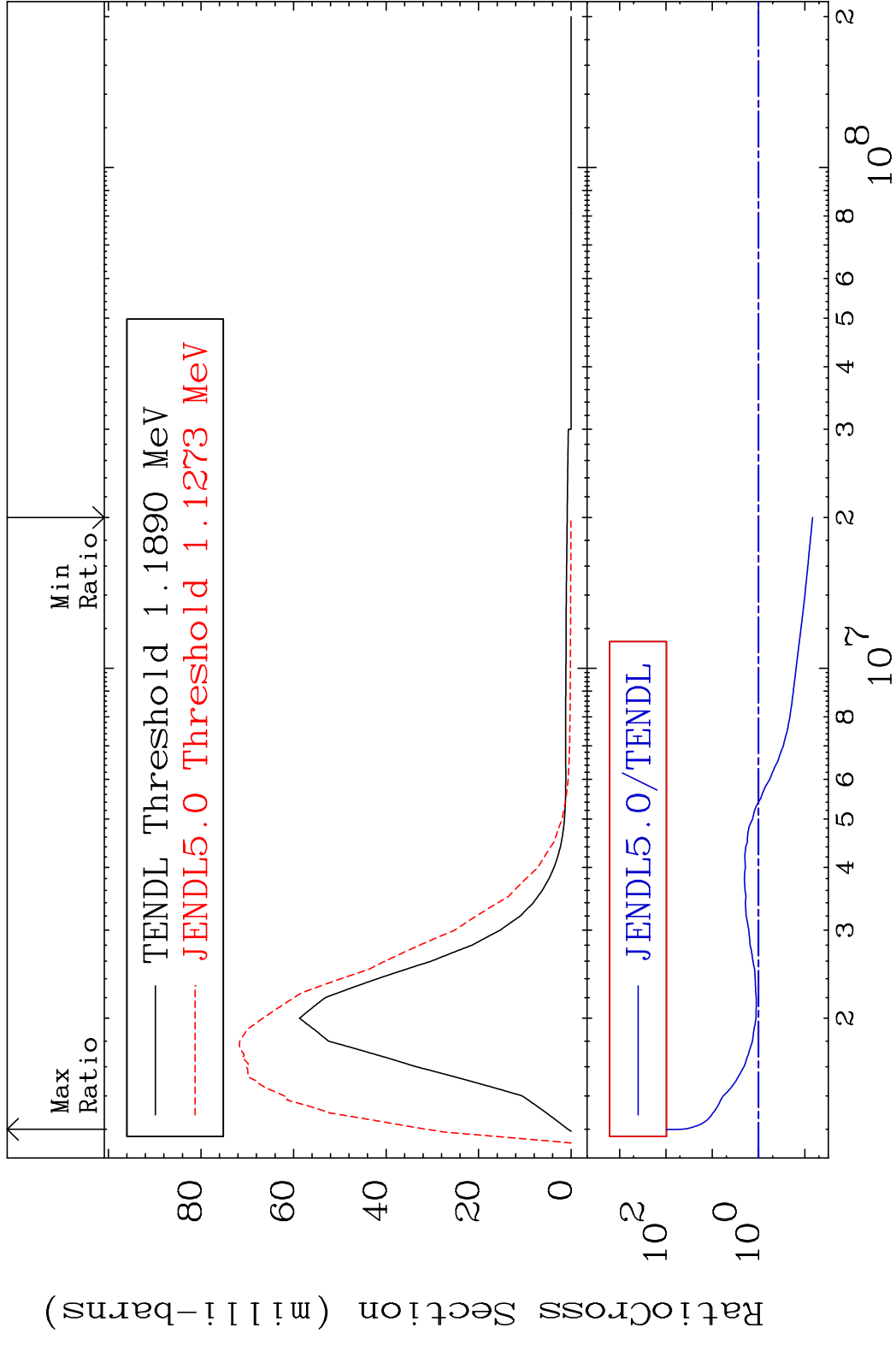
MAT 6255 MT= 57 (n, n') Level 62-Sm-154
 Cross Section -100.0 To 9999. %



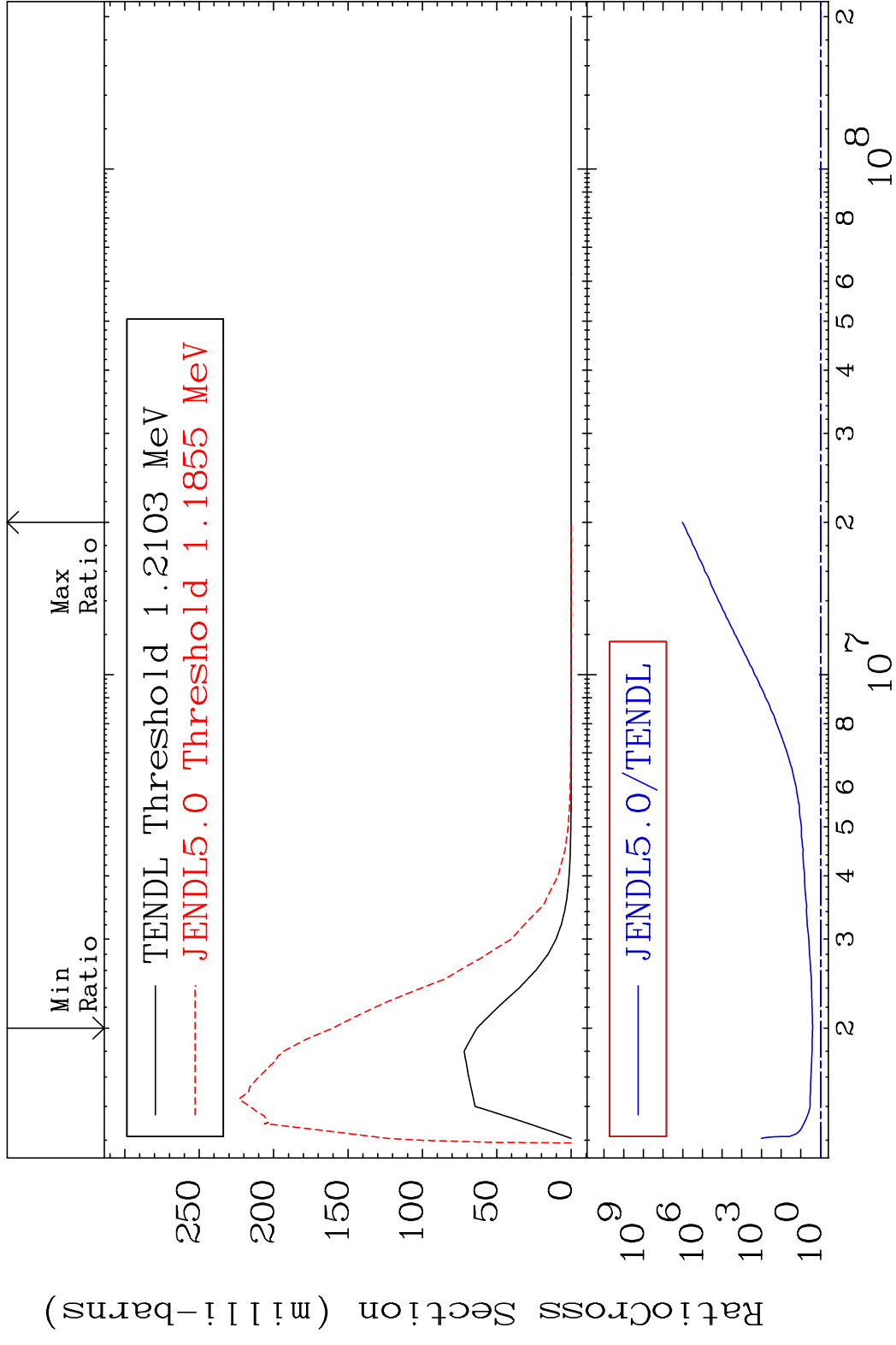
MAT 6255 MT= 58 (n, n') Level 62-Sm-154
 Cross Section -98.95 To 36.53 %



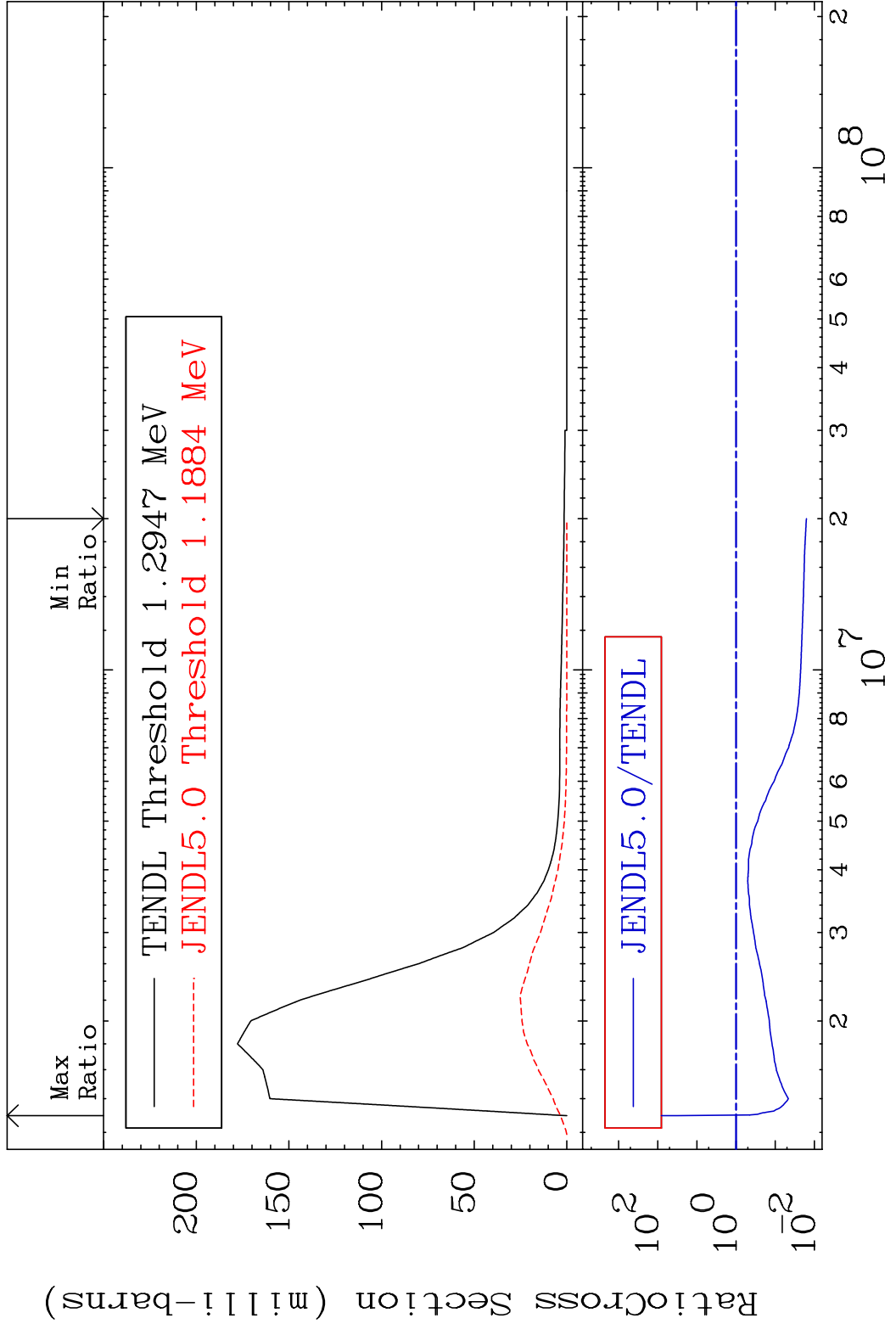
MAT 6255 MT= 59 (n,n') Level 62-Sm-154
 Cross Section -93.15 To 4346. %



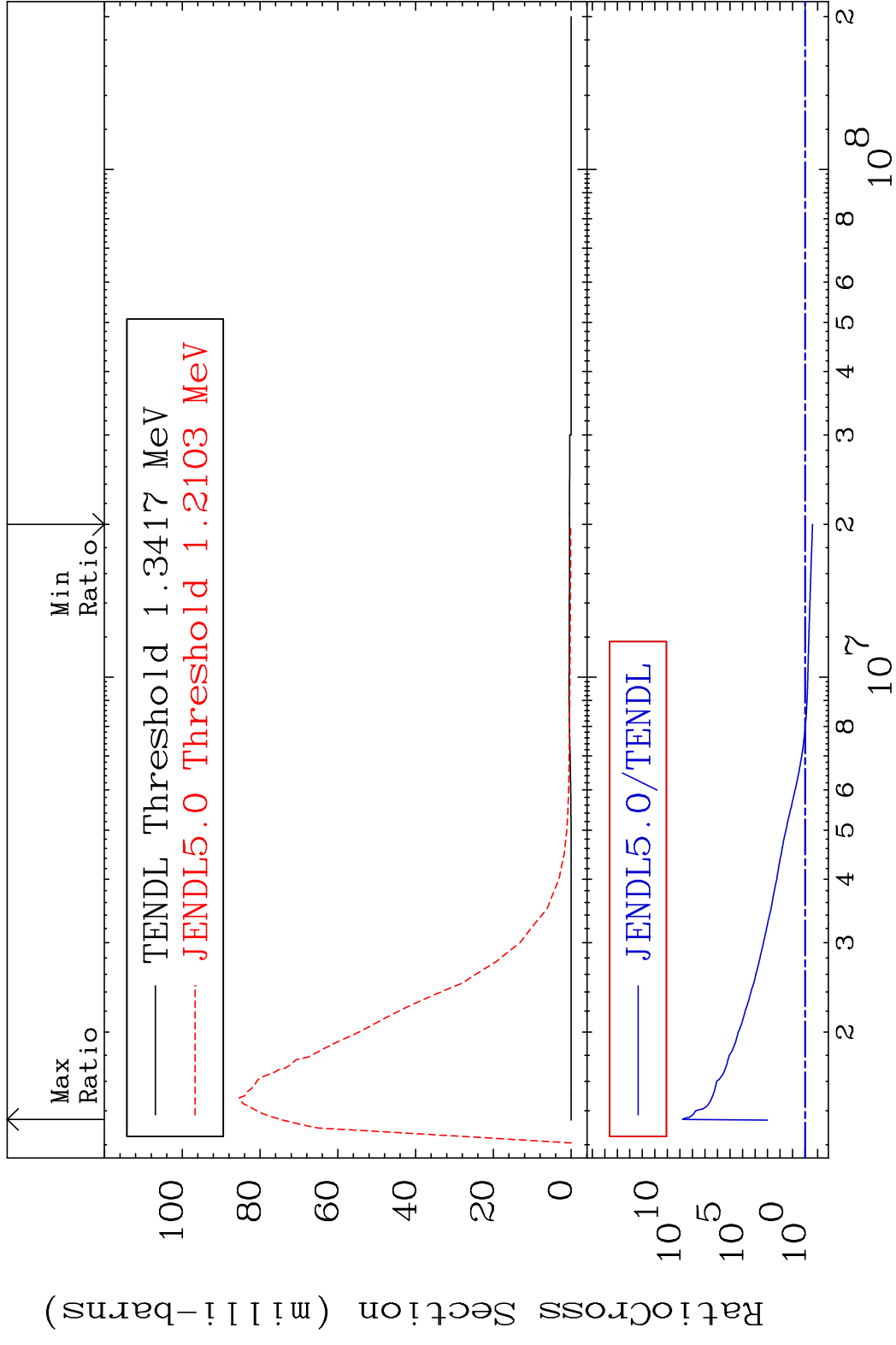
MAT 6255 MT= 60 (n, n') Level 62-Sm-154
 Cross Section 153.3 To 9999. %



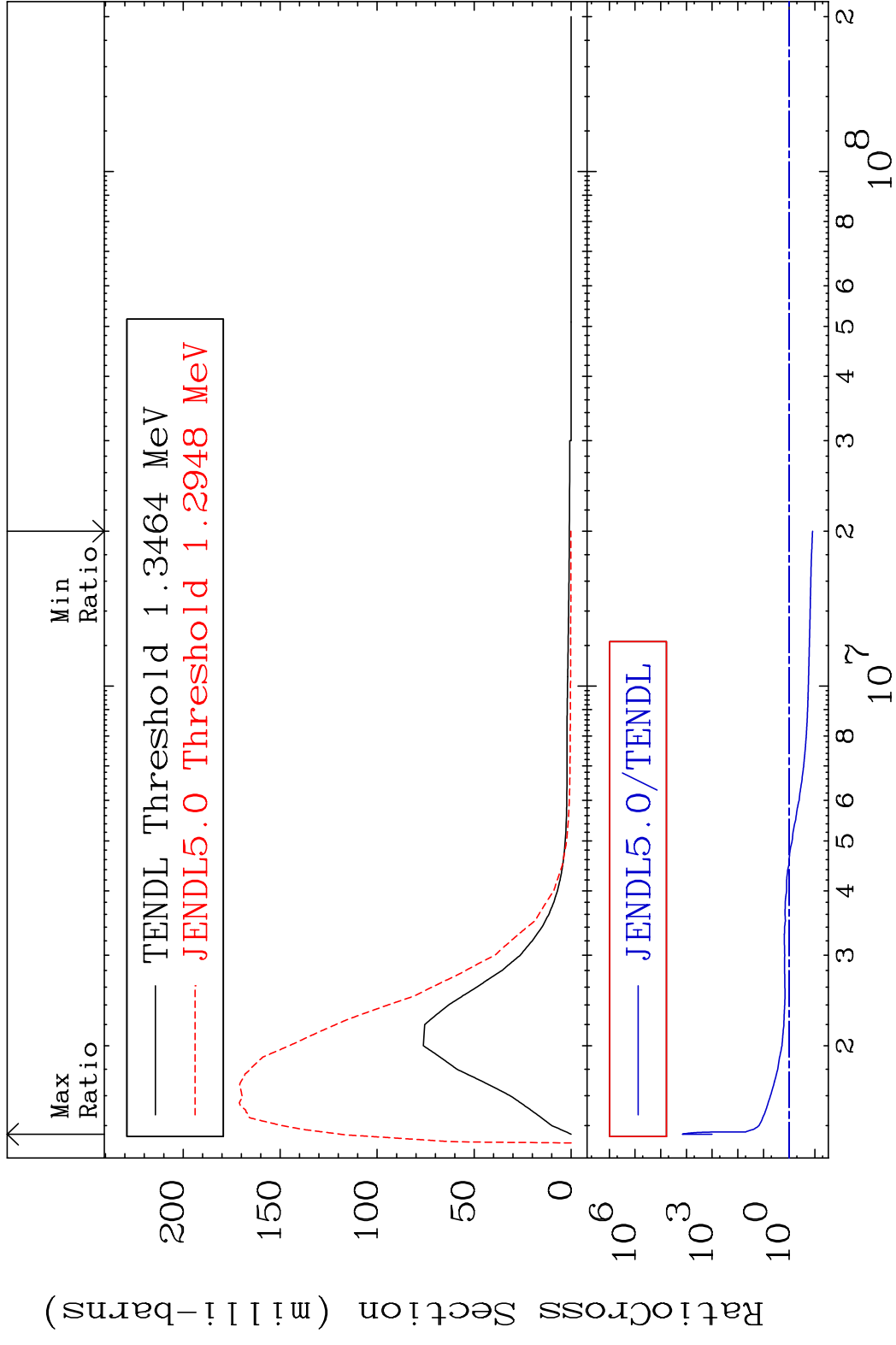
MAT 6255 MT= 61 (n, n') Level 62-Sm-154
 Cross Section -98.40 To 3097. %



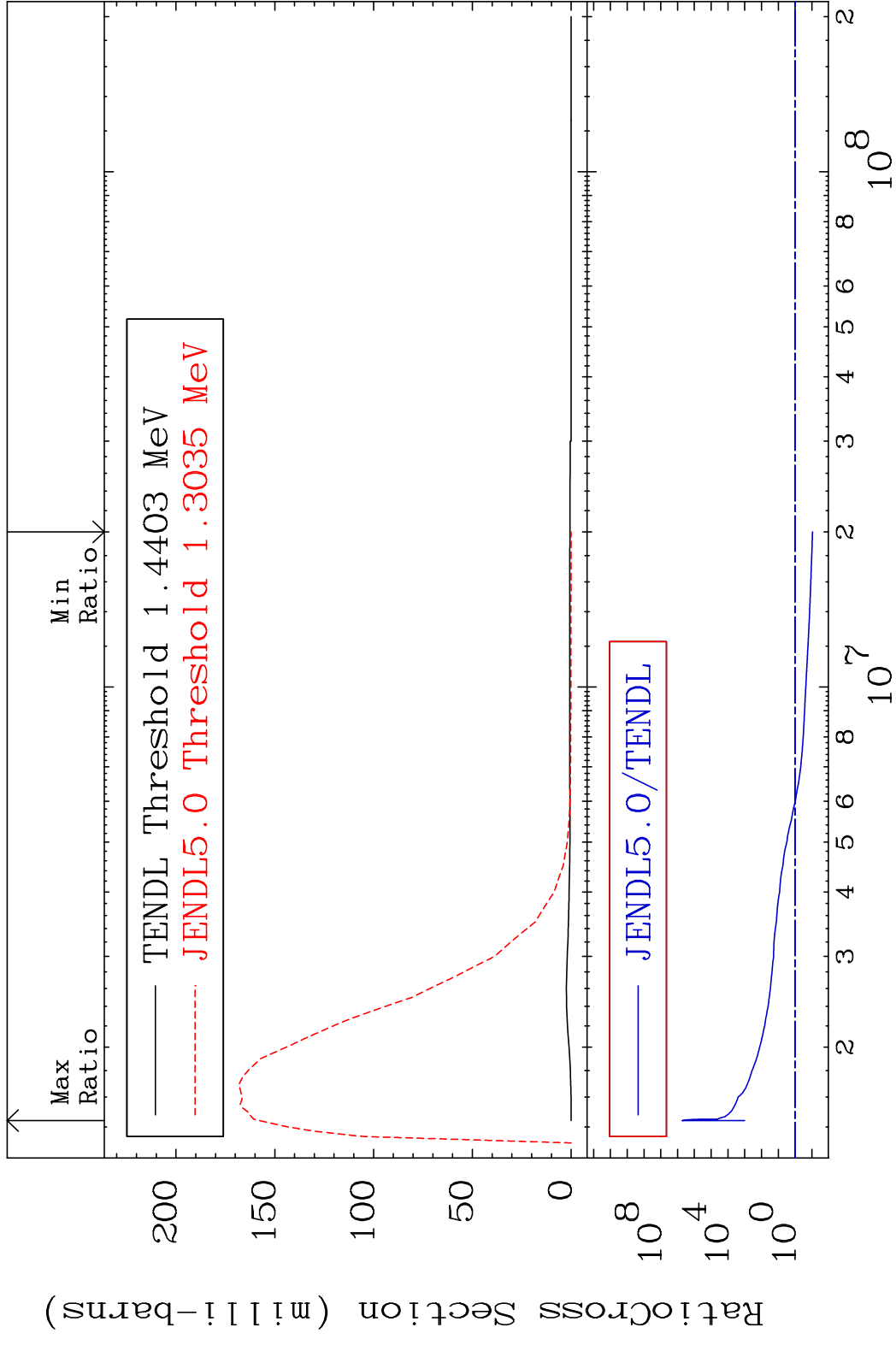
MAT 6255 MT= 62 (n, n') Level 62-Sm-154
 Cross Section -74.46 To 9999. %



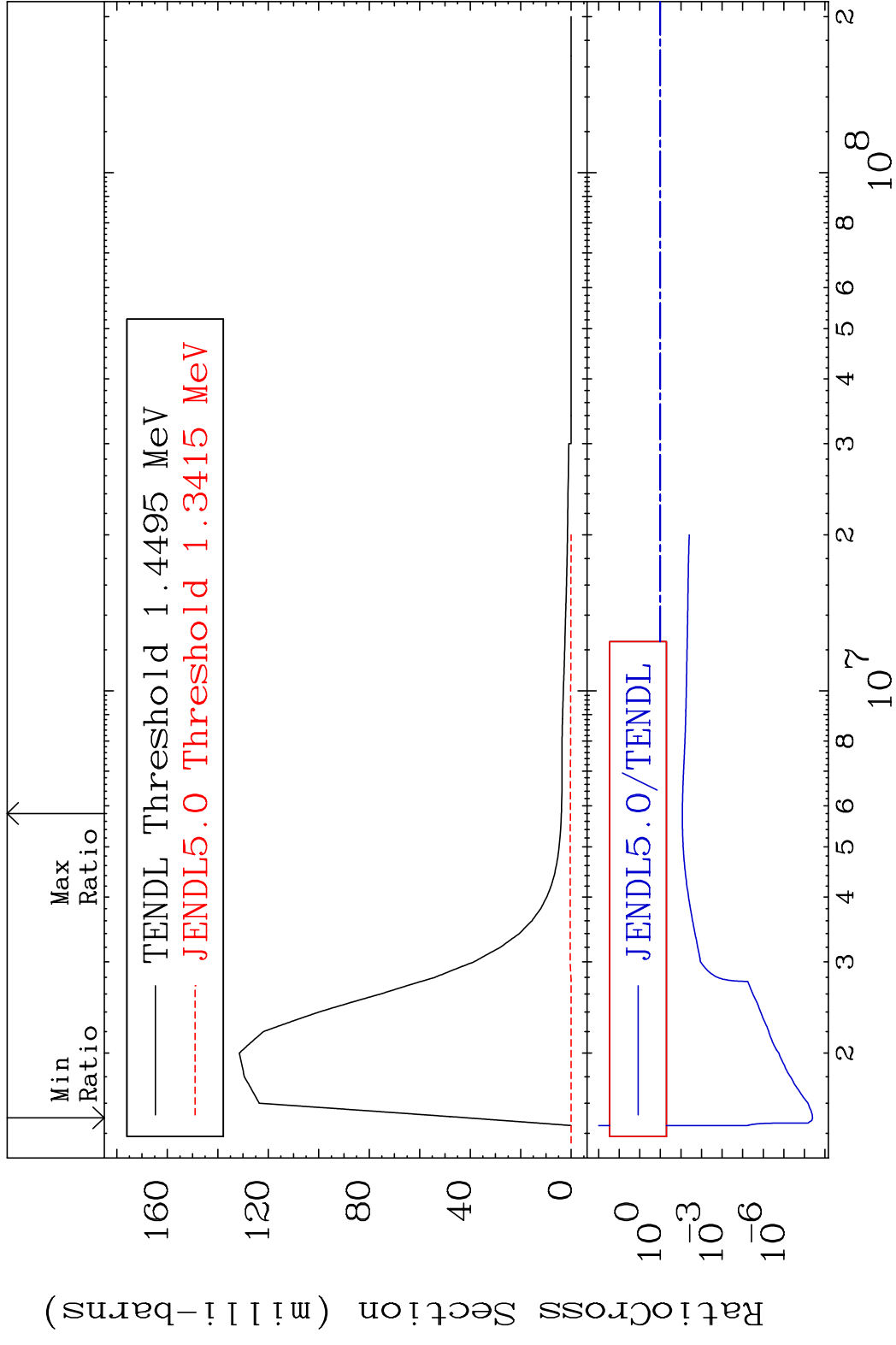
MAT 6255 MT= 63 (n, n') Level 62-Sm-154
 Cross Section -87.69 To 9999. %



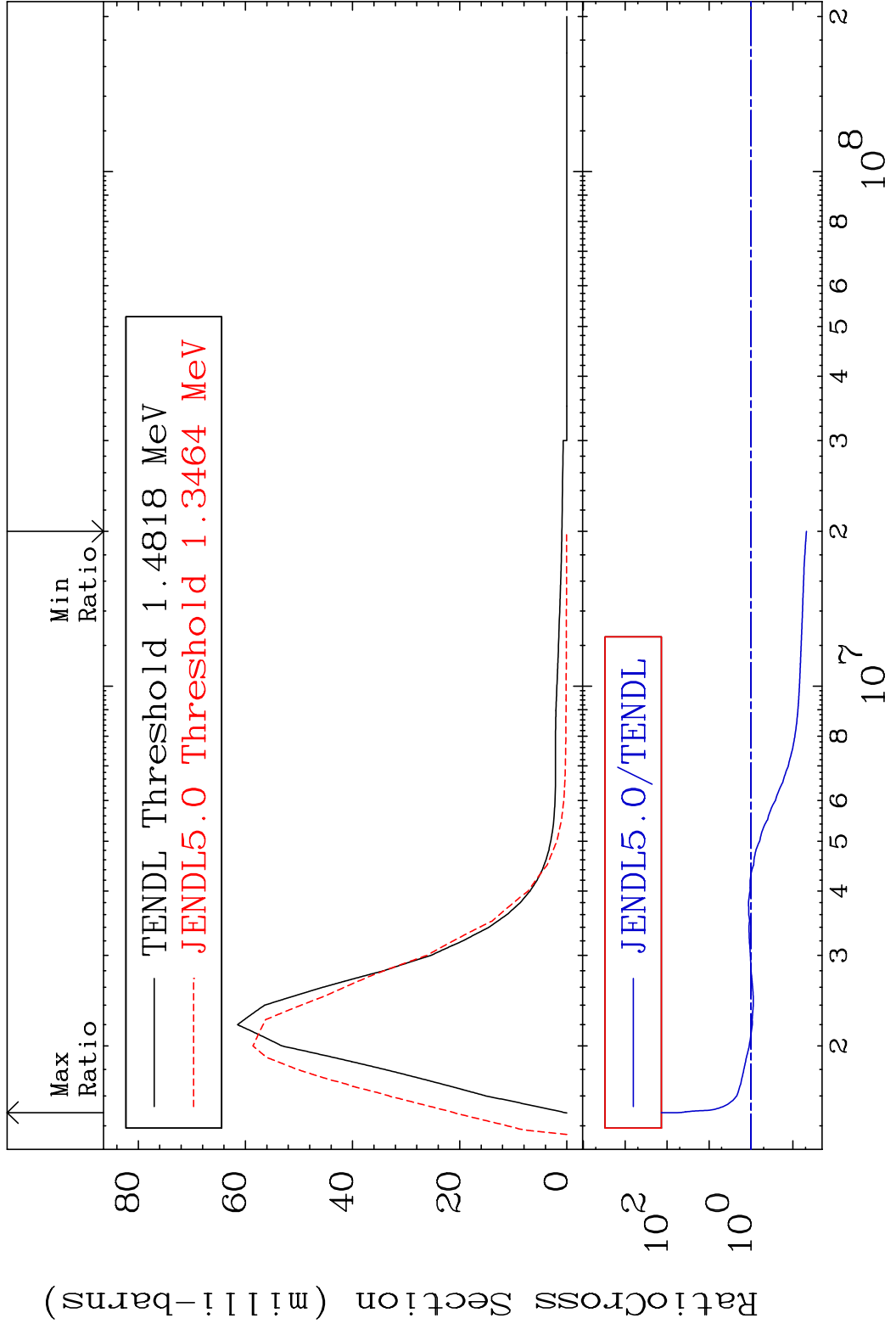
MAT 6255 MT= 64 (n, n') Level 62-Sm-154
 Cross Section -90.86 To 9999. %



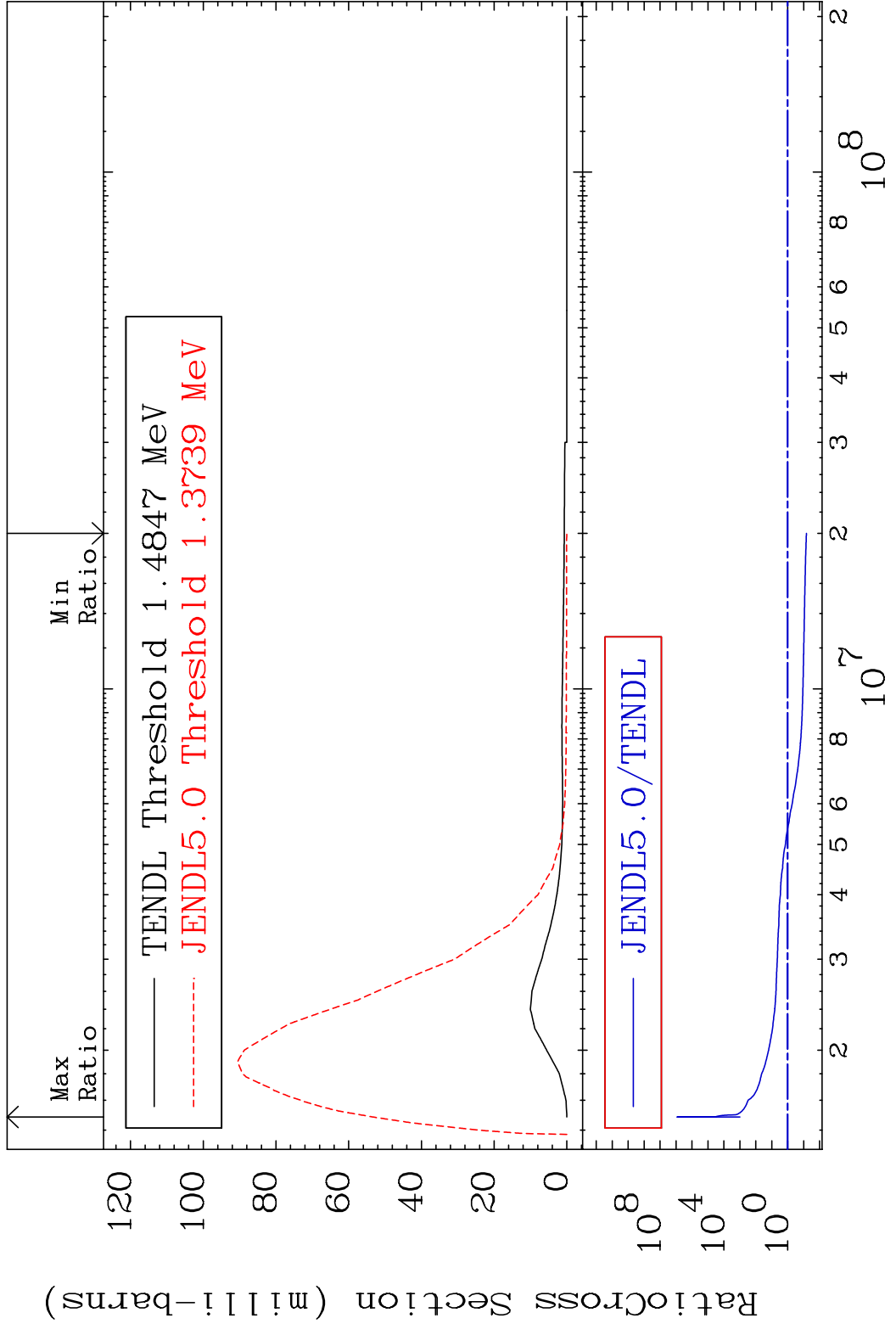
MAT 6255 MT= 65 (n,n') Level 62-Sm-154
 Cross Section -100.0 To -91.45%



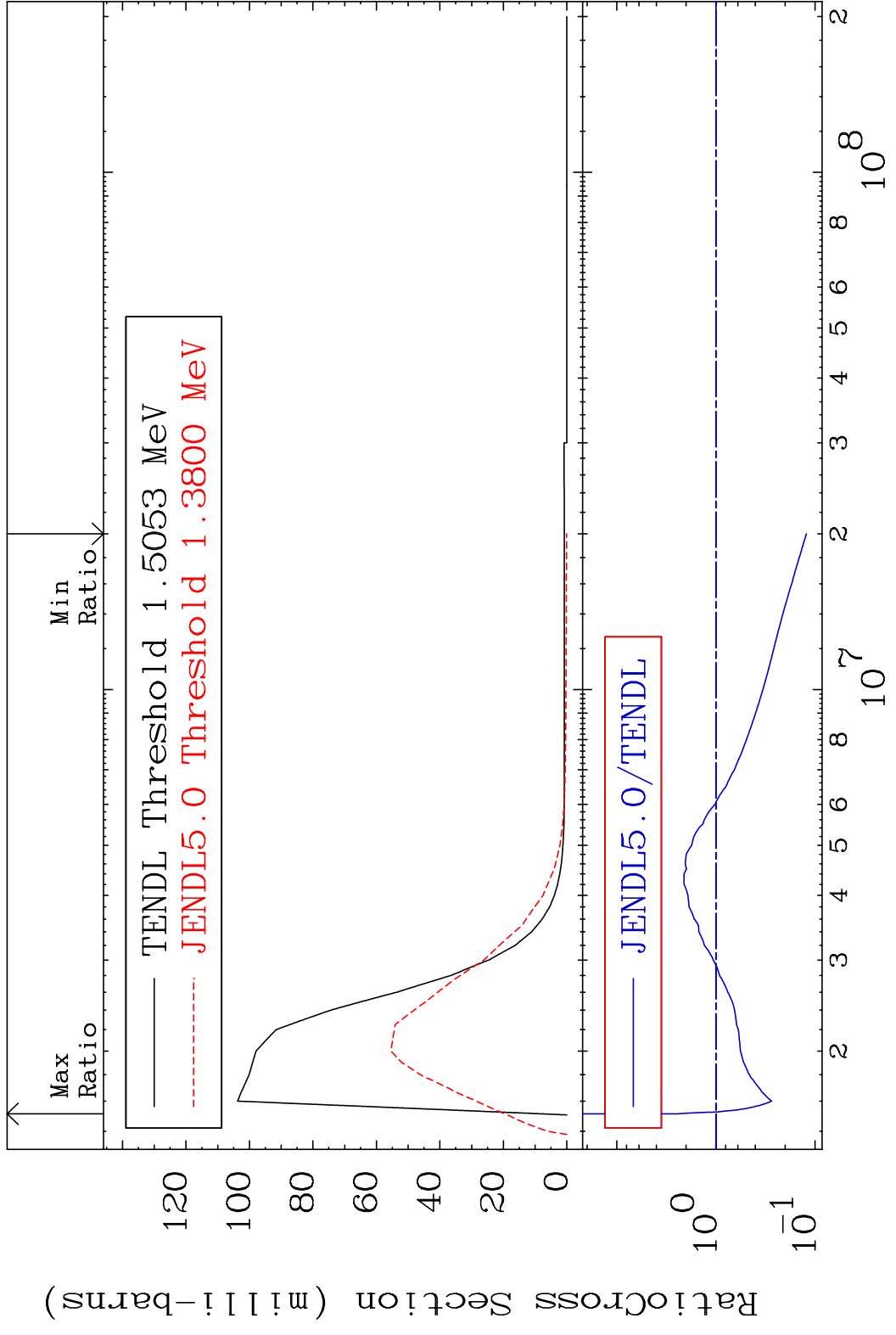
MAT 6255 MT= 66 (n, n') Level 62-Sm-154
 Cross Section -95.23 To 5643. %



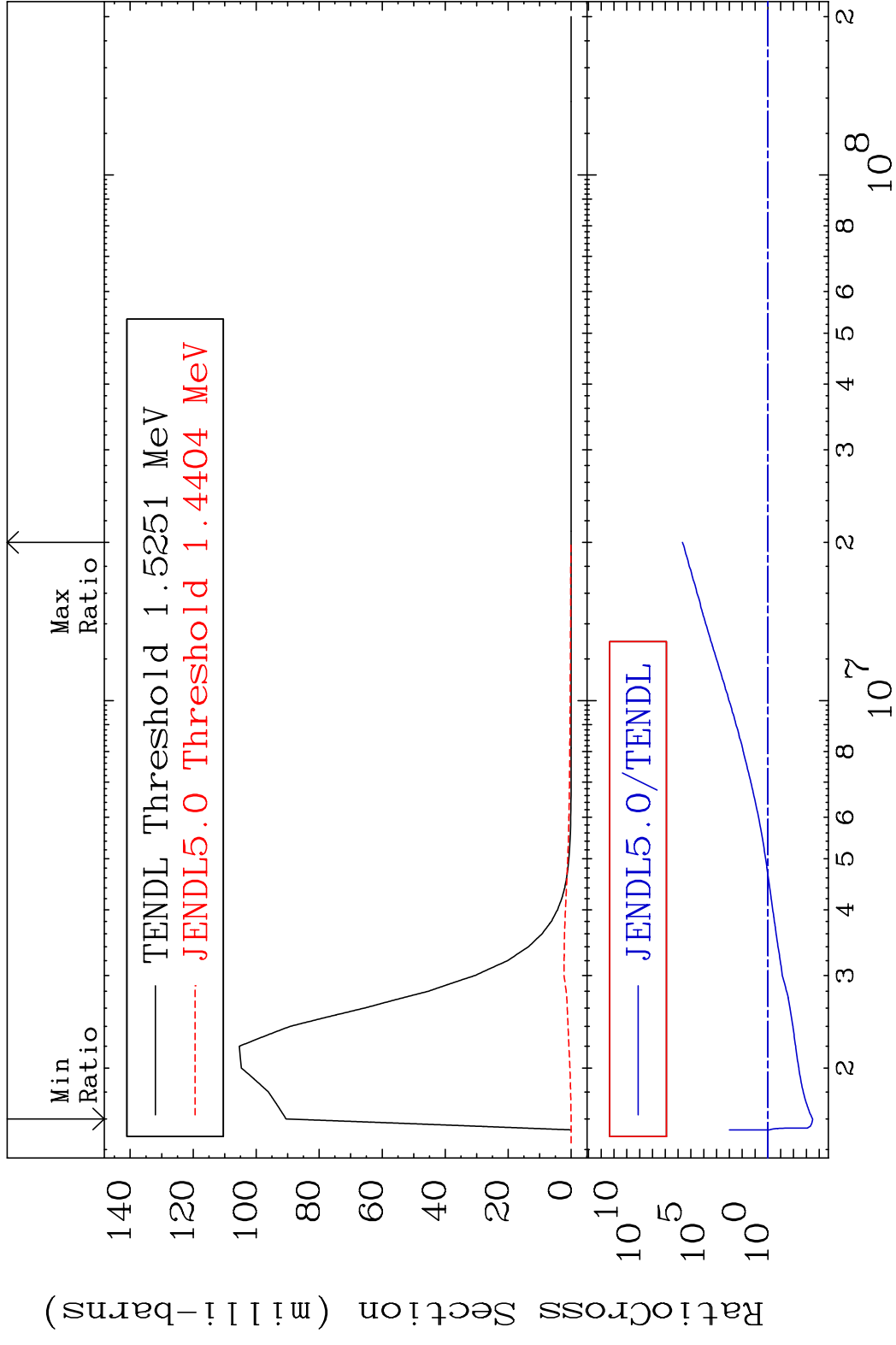
MAT 6255 MT= 67 (n, n') Level 62-Sm-154
 Cross Section -93.24 To 9999. %



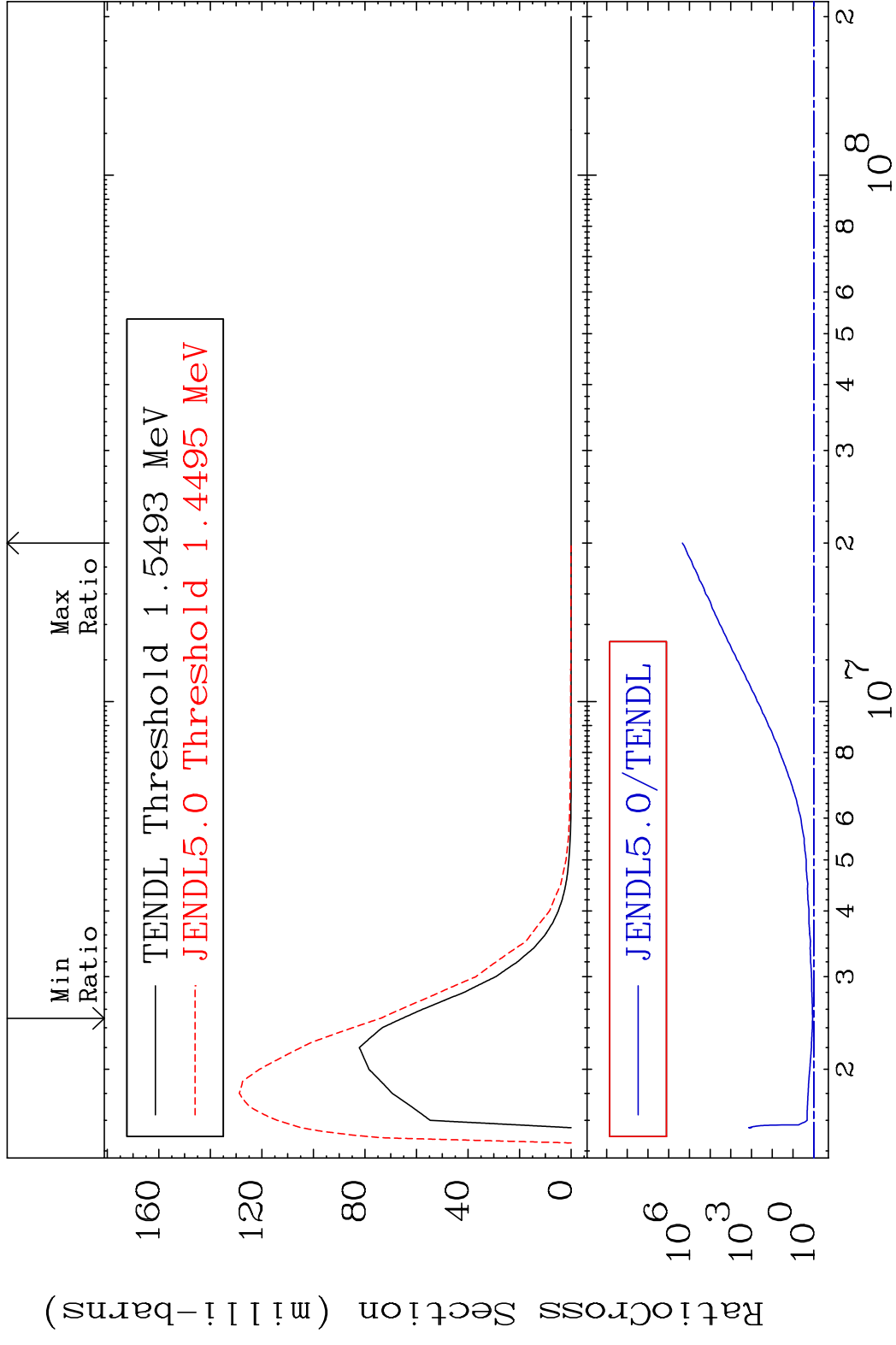
MAT 6255 MT= 68 (n, n') Level 62-Sm-154
 Cross Section -87.78 To 146.2 %



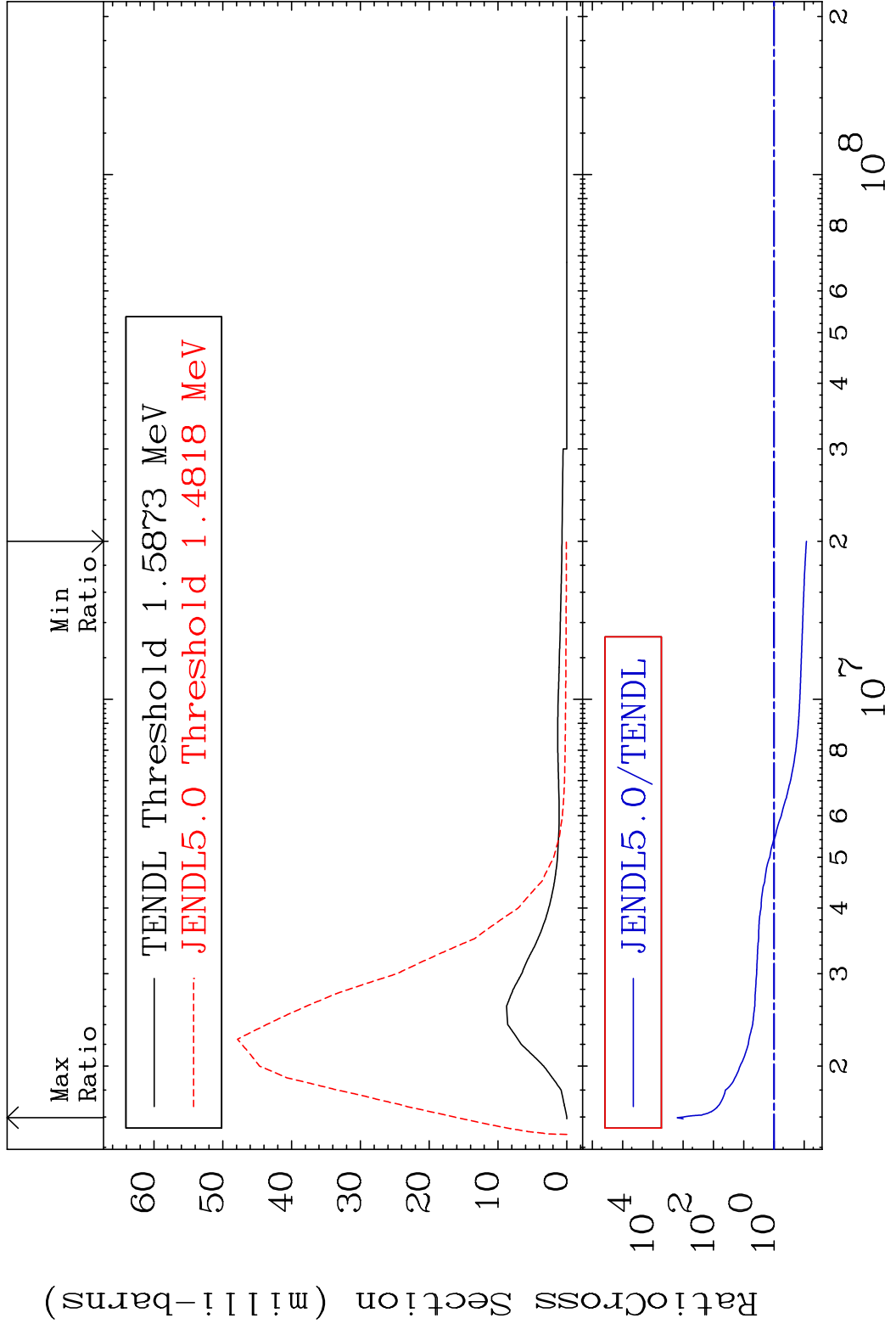
MAT 6255 MT= 69 (n, n') Level 62-Sm-154
 Cross Section -99.97 To 9999. %



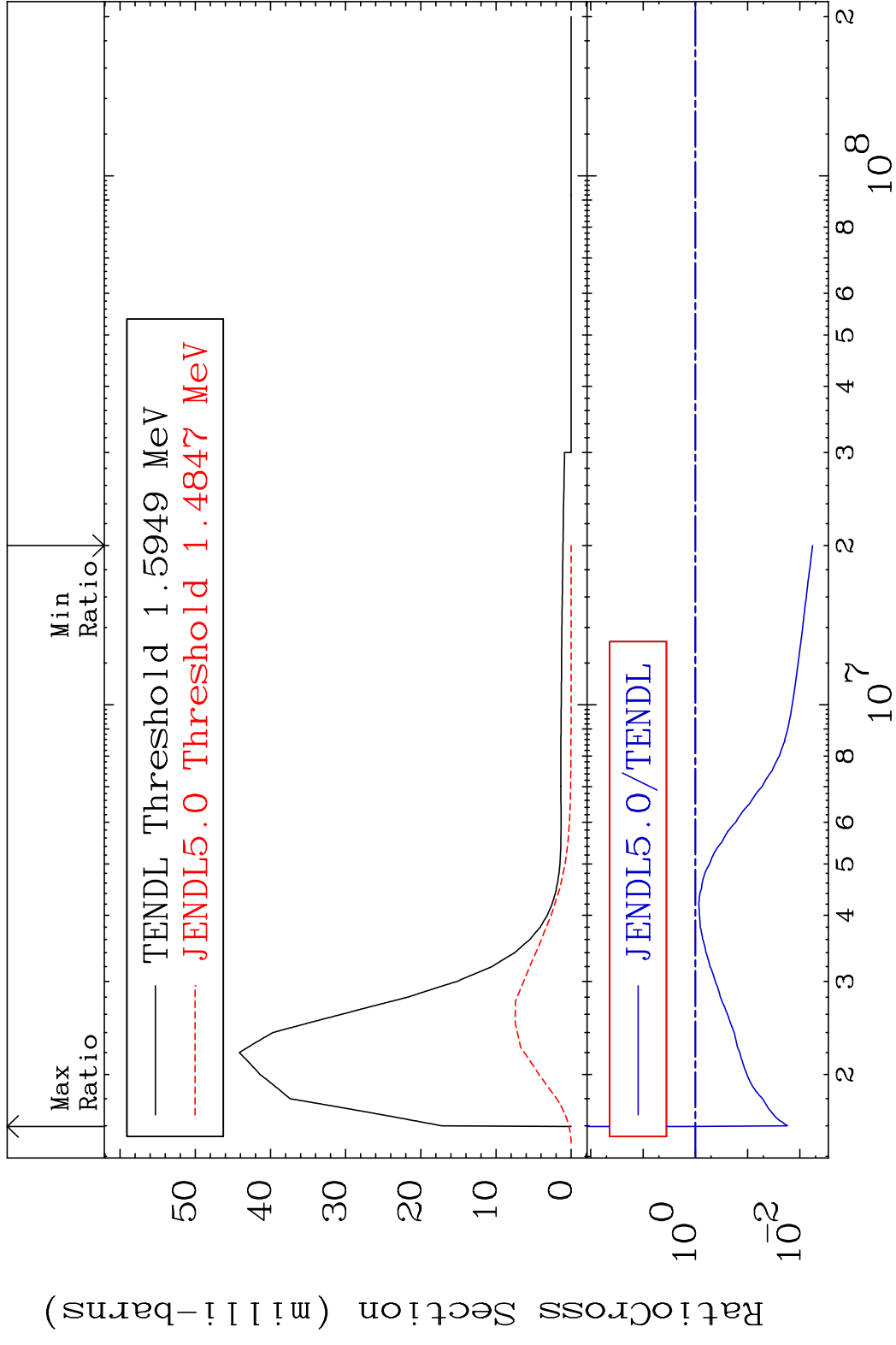
MAT 6255 MT= 70 (n, n') Level 62-Sm-154
 Cross Section 12.95 To 9999. %



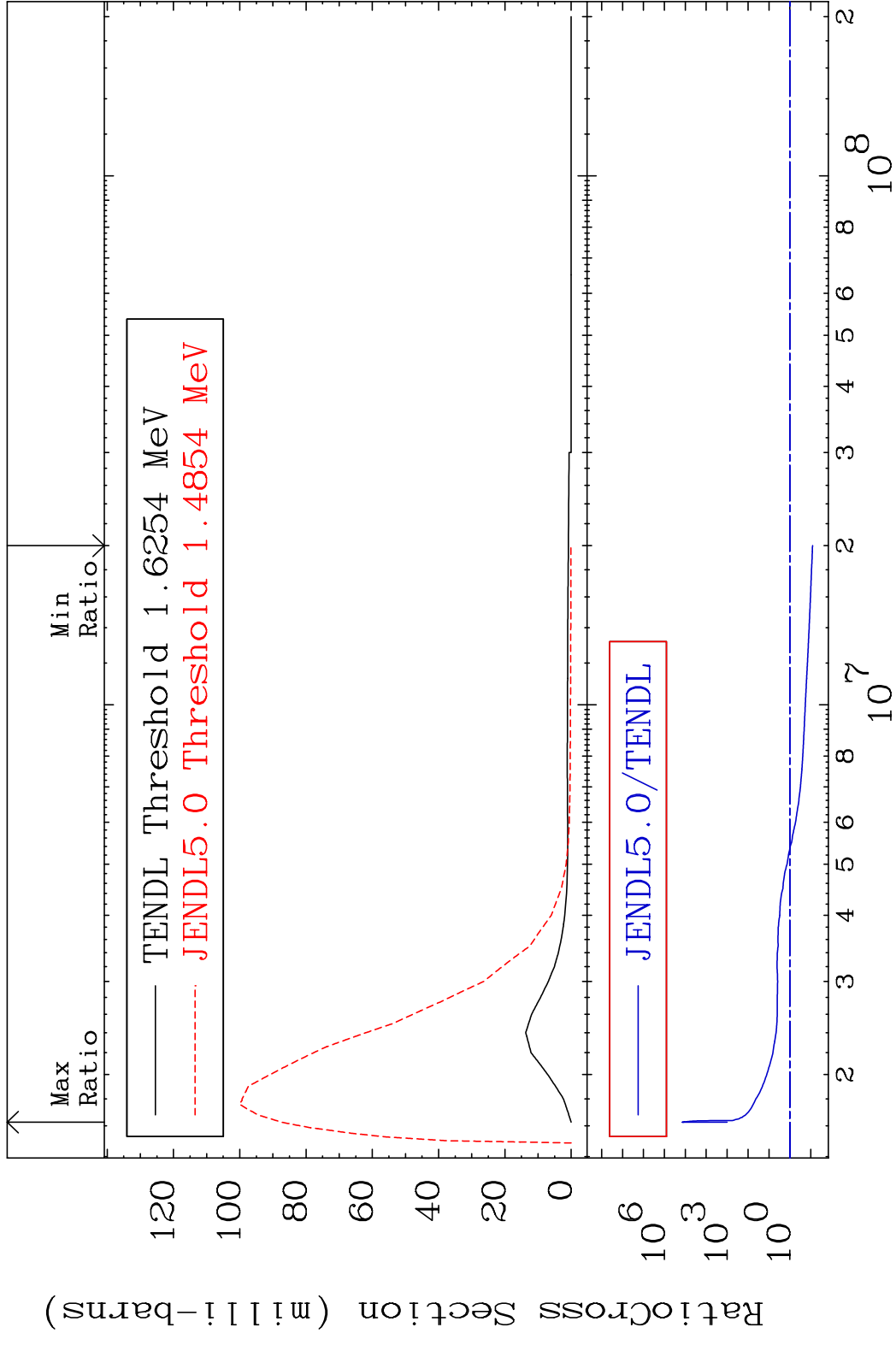
MAT 6255 MT= 71 (n,n') Level 62-Sm-154
 Cross Section -91.52 To 9999. %



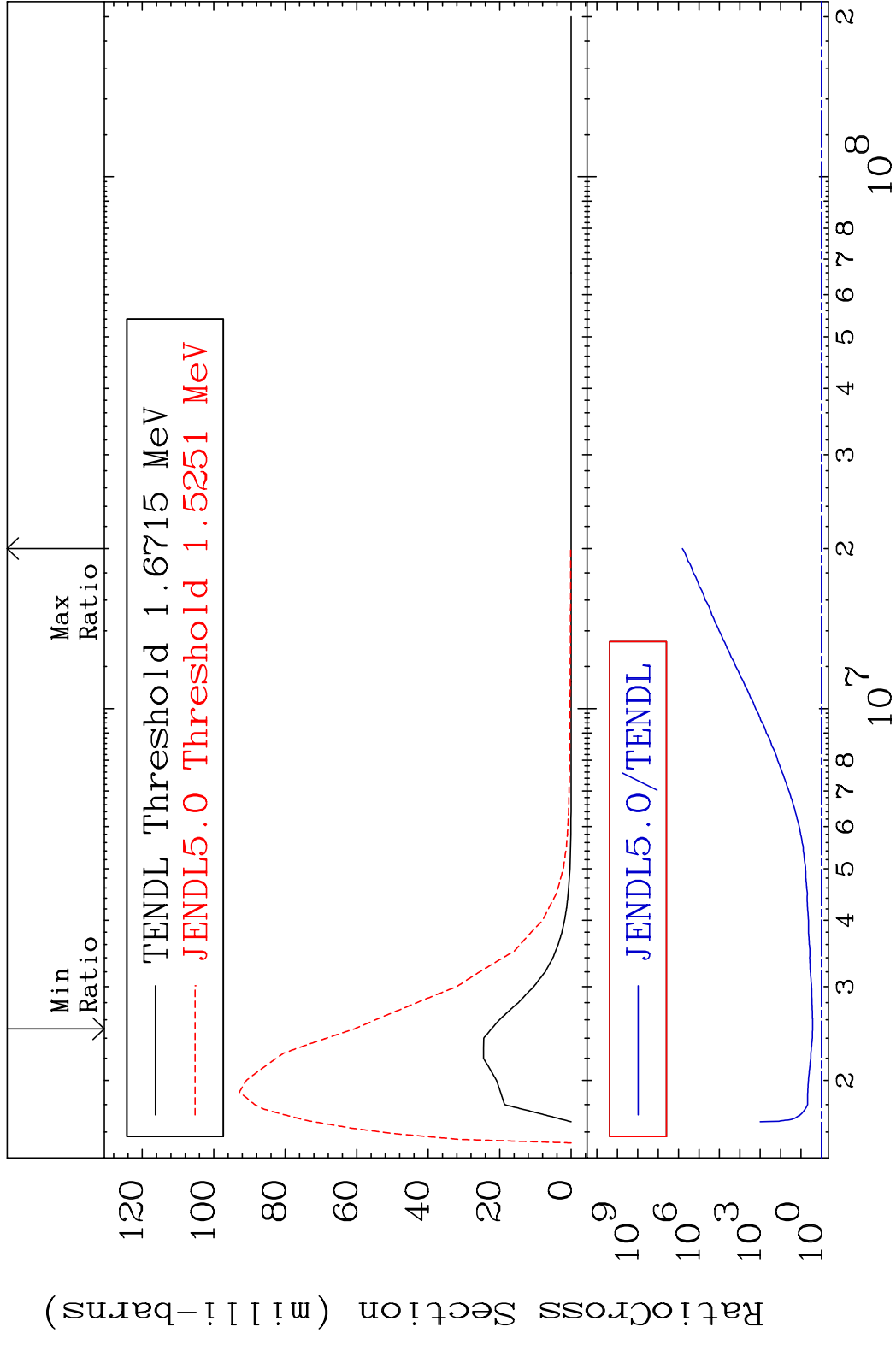
MAT 6255 MT= 72 (n,n') Level 62-Sm-154
 Cross Section -99.43 To 77.26 %



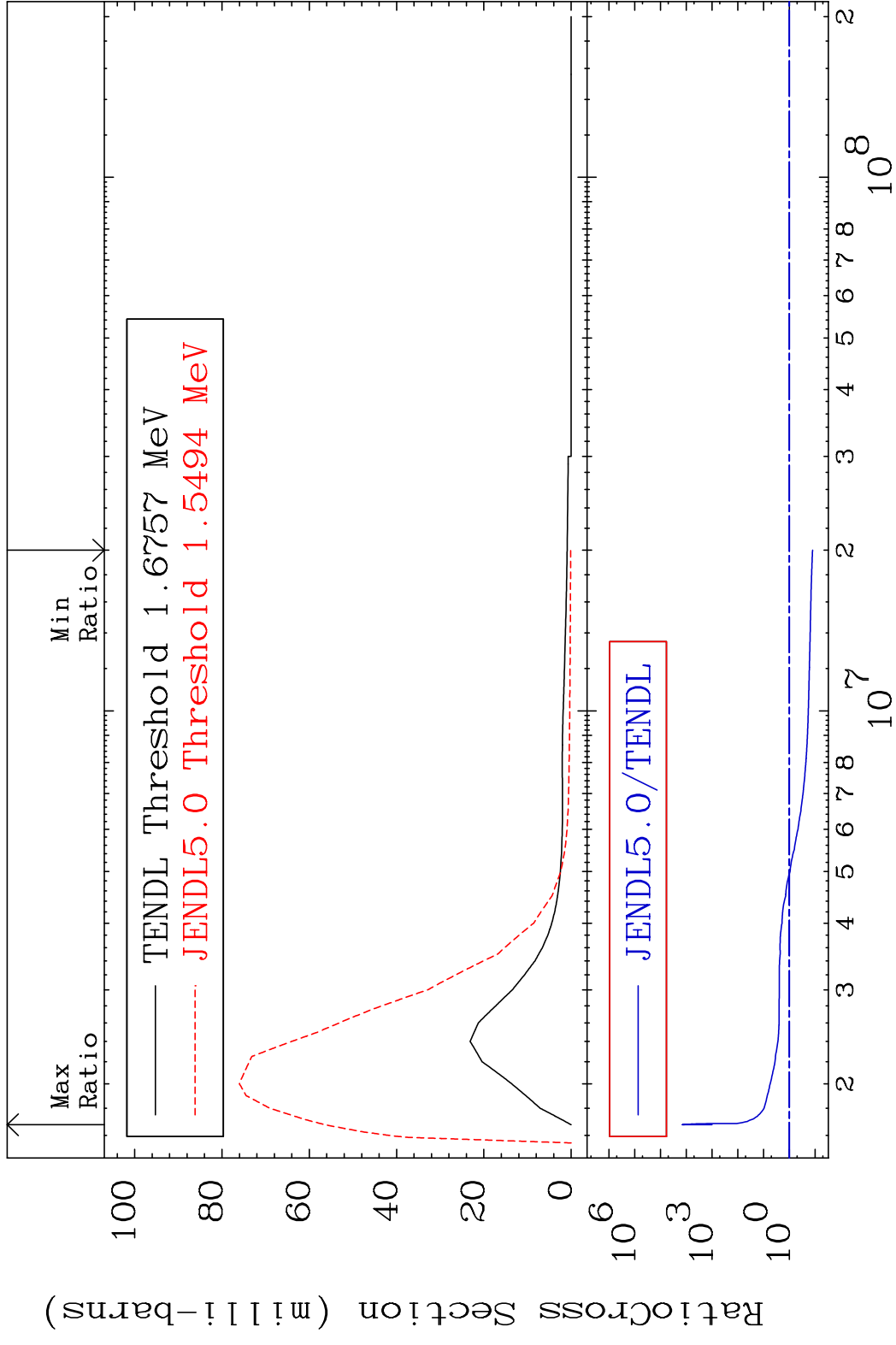
MAT 6255 MT= 73 (n,n') Level 62-Sm-154
 Cross Section -91.80 To 9999. %



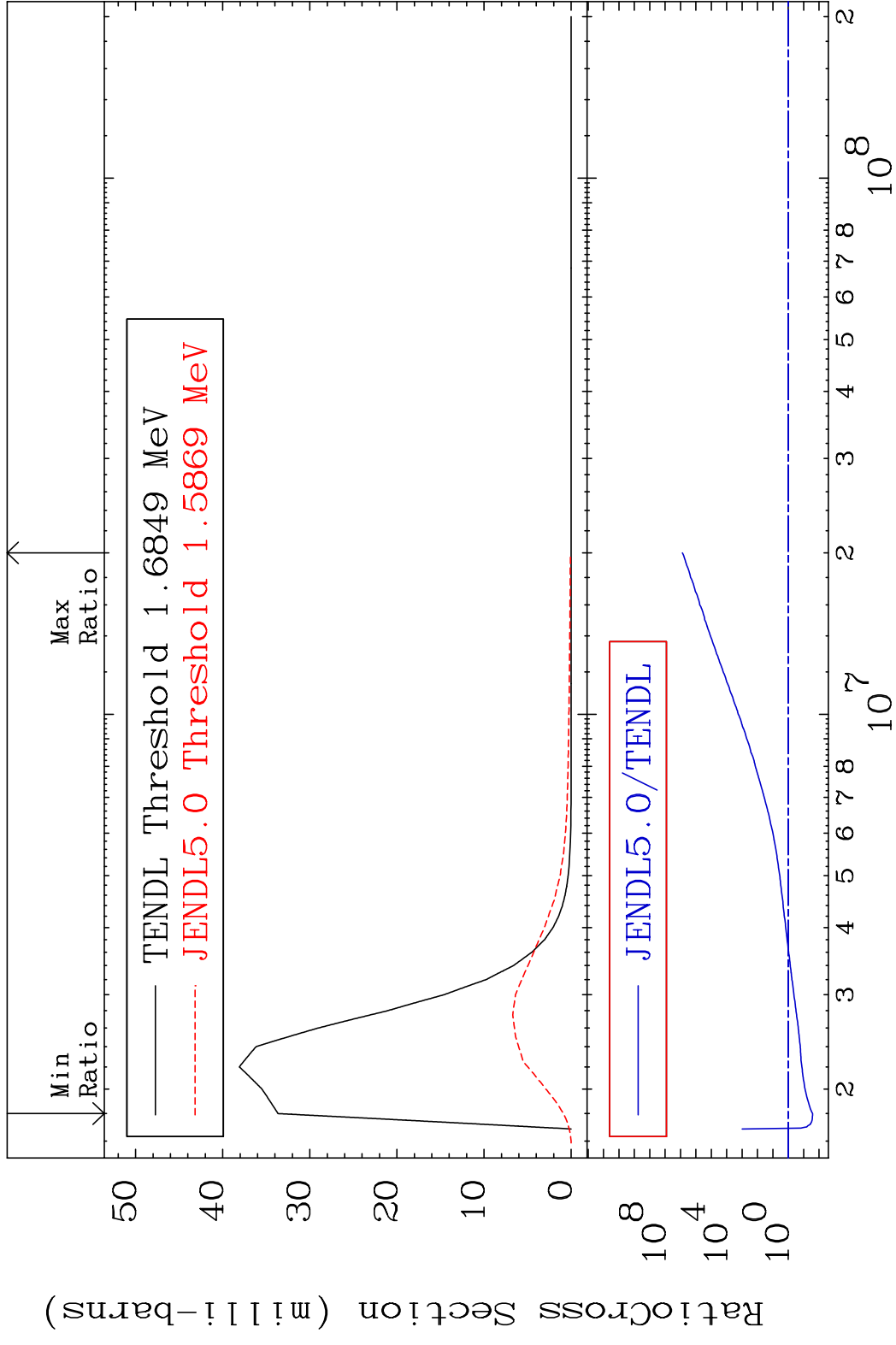
MAT 6255 MT= 74 (n, n') Level 62-Sm-154
 Cross Section 171.8 To 9999. %



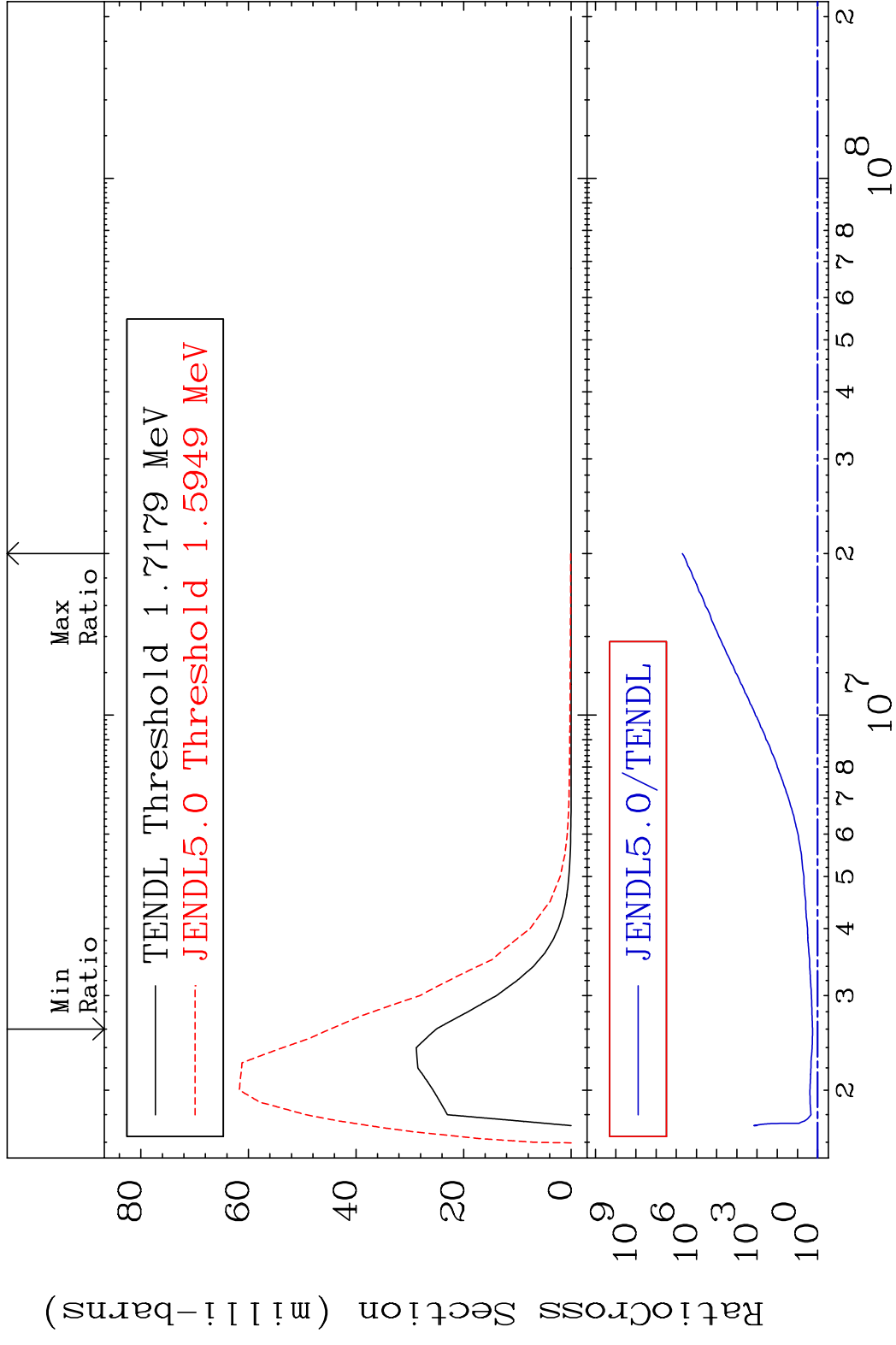
MAT 6255 MT= 75 (n,n') Level 62-Sm-154
 Cross Section -87.38 To 9999. %



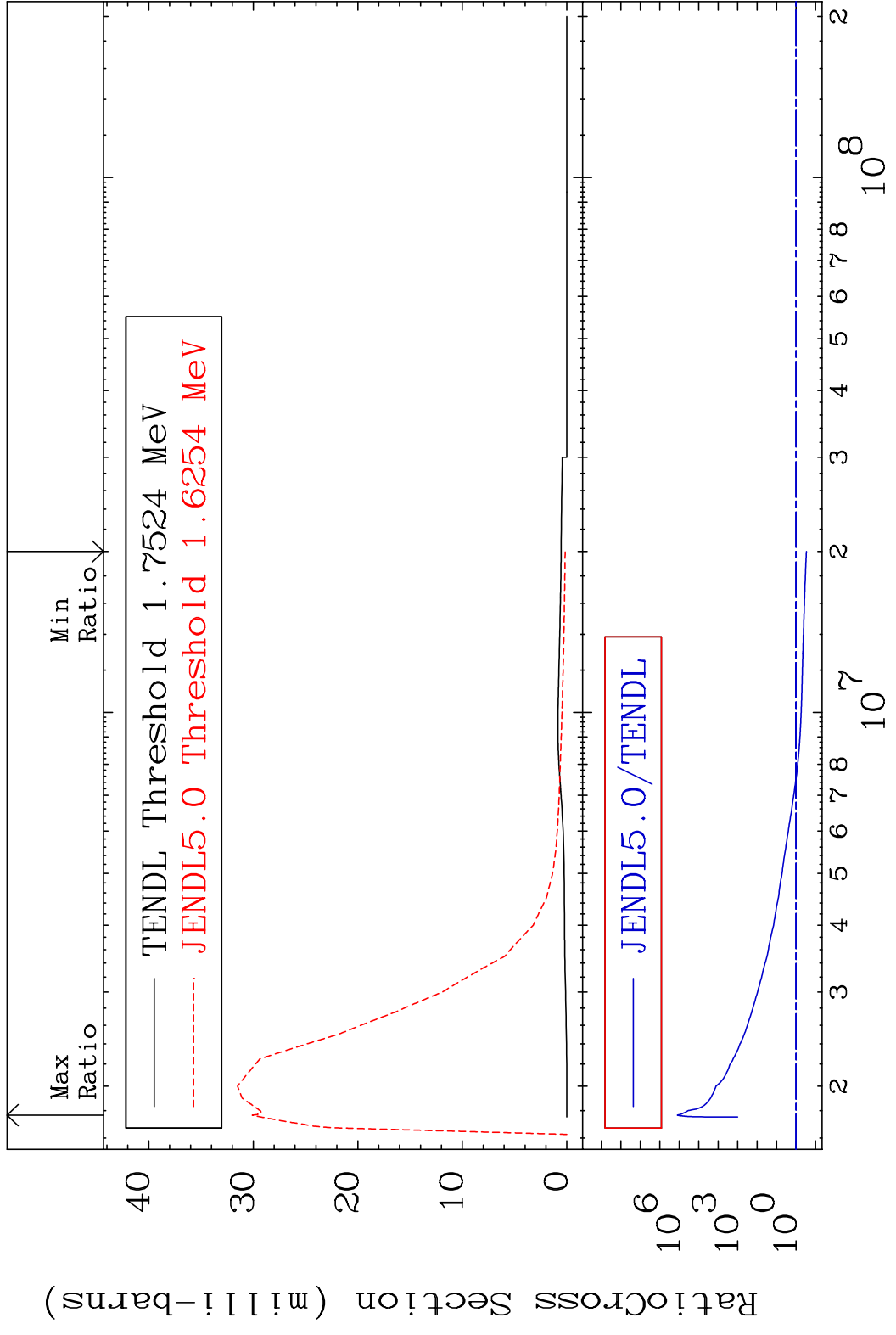
MAT 6255 MT= 76 (n, n') Level 62-Sm-154
 Cross Section -97.34 To 9999. %



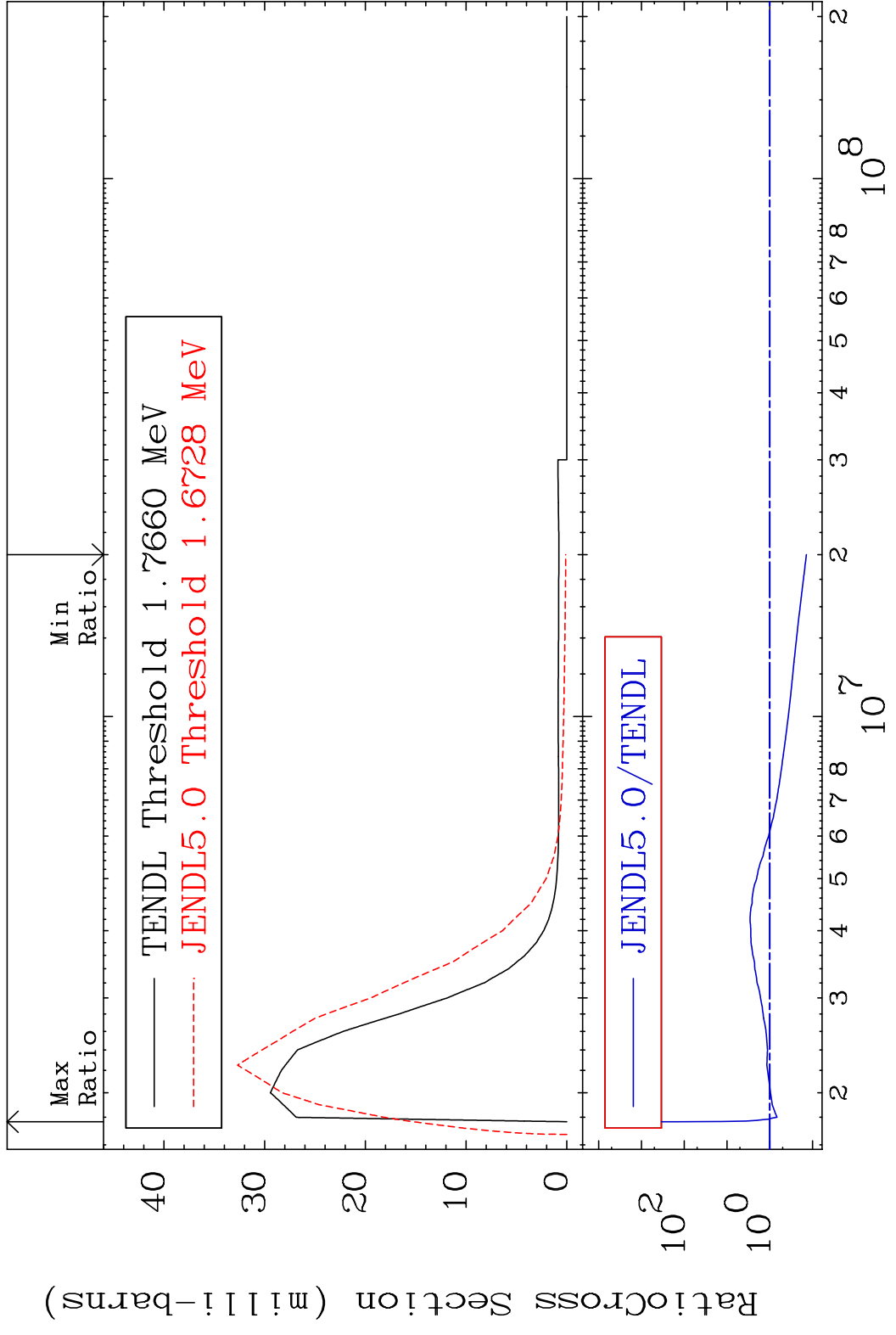
MAT 6255 MT= 77 (n, n') Level 62-Sm-154
 Cross Section 78.44 To 9999. %



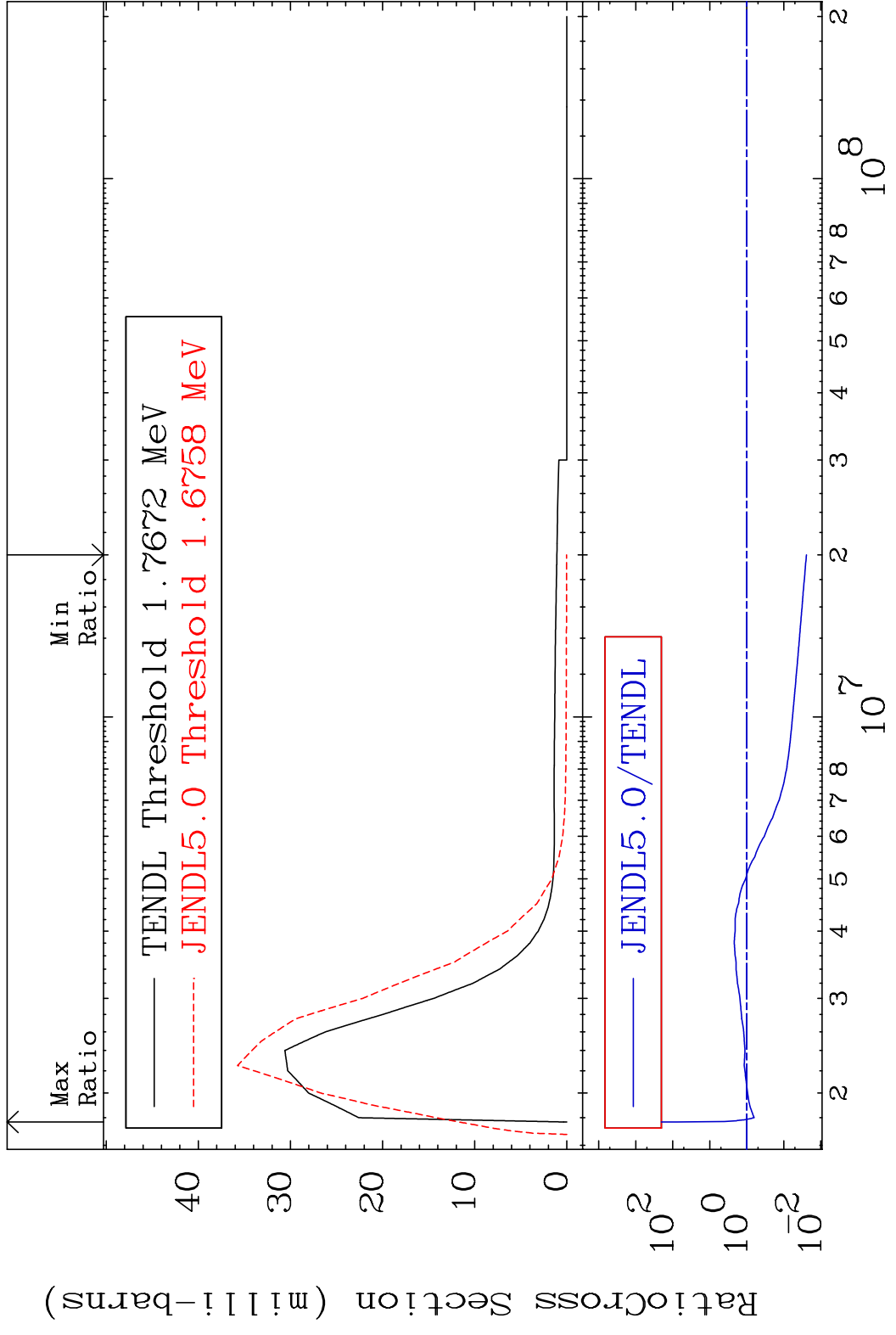
MAT 6255 MT= 78 (n,n') Level 62-Sm-154
 Cross Section -70.41 To 9999. %



MAT 6255 MT= 79 (n, n') Level 62-Sm-154
 Cross Section -86.08 To 9999. %



MAT 6255 MT= 80 (n, n') Level 62-Sm-154
 Cross Section -97.55 To 7478. %

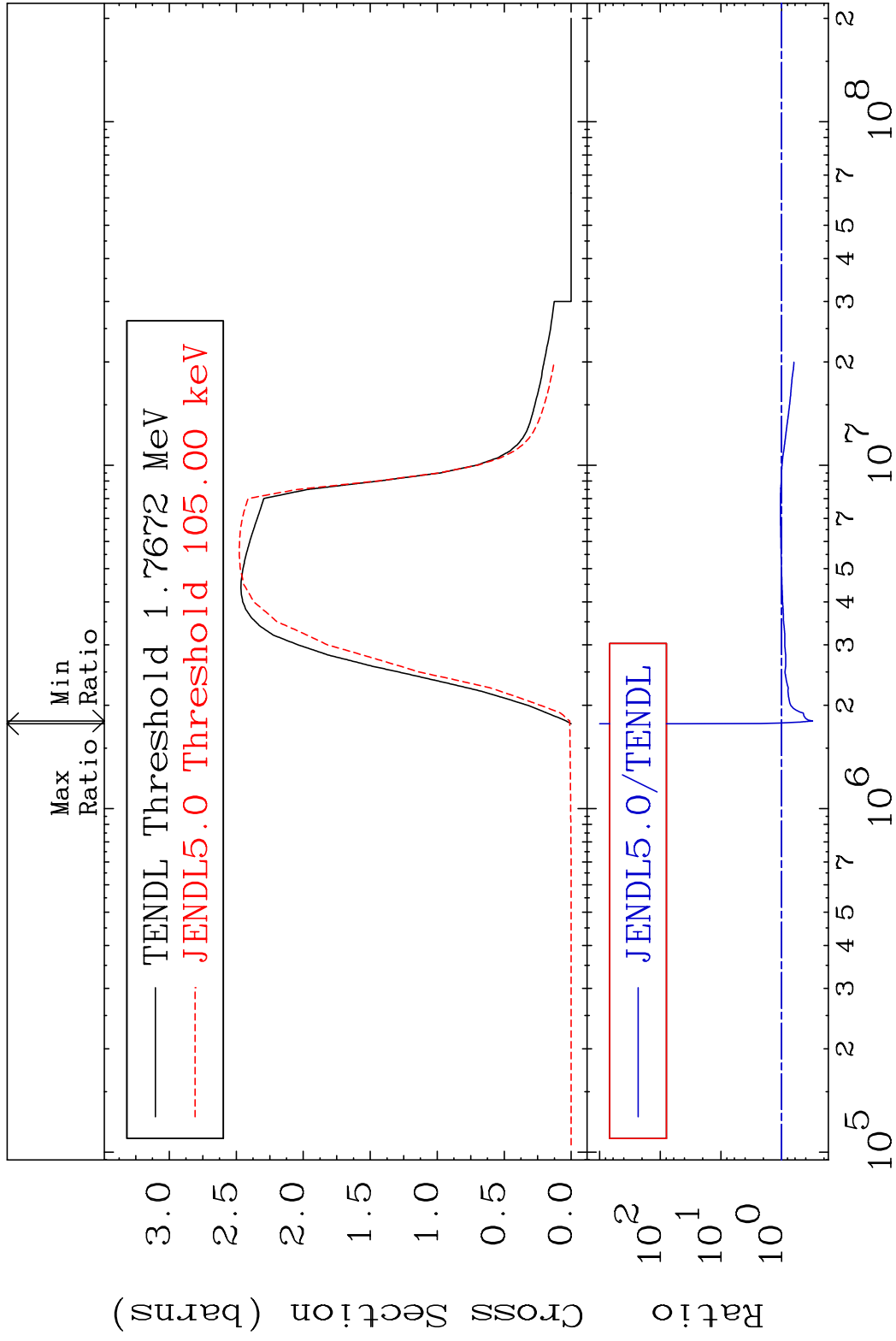


MAT 6255

(n, n') Continuum

62-Sm-154

Cross Section -69.01 To 4237. %



39

Incident Energy (eV)

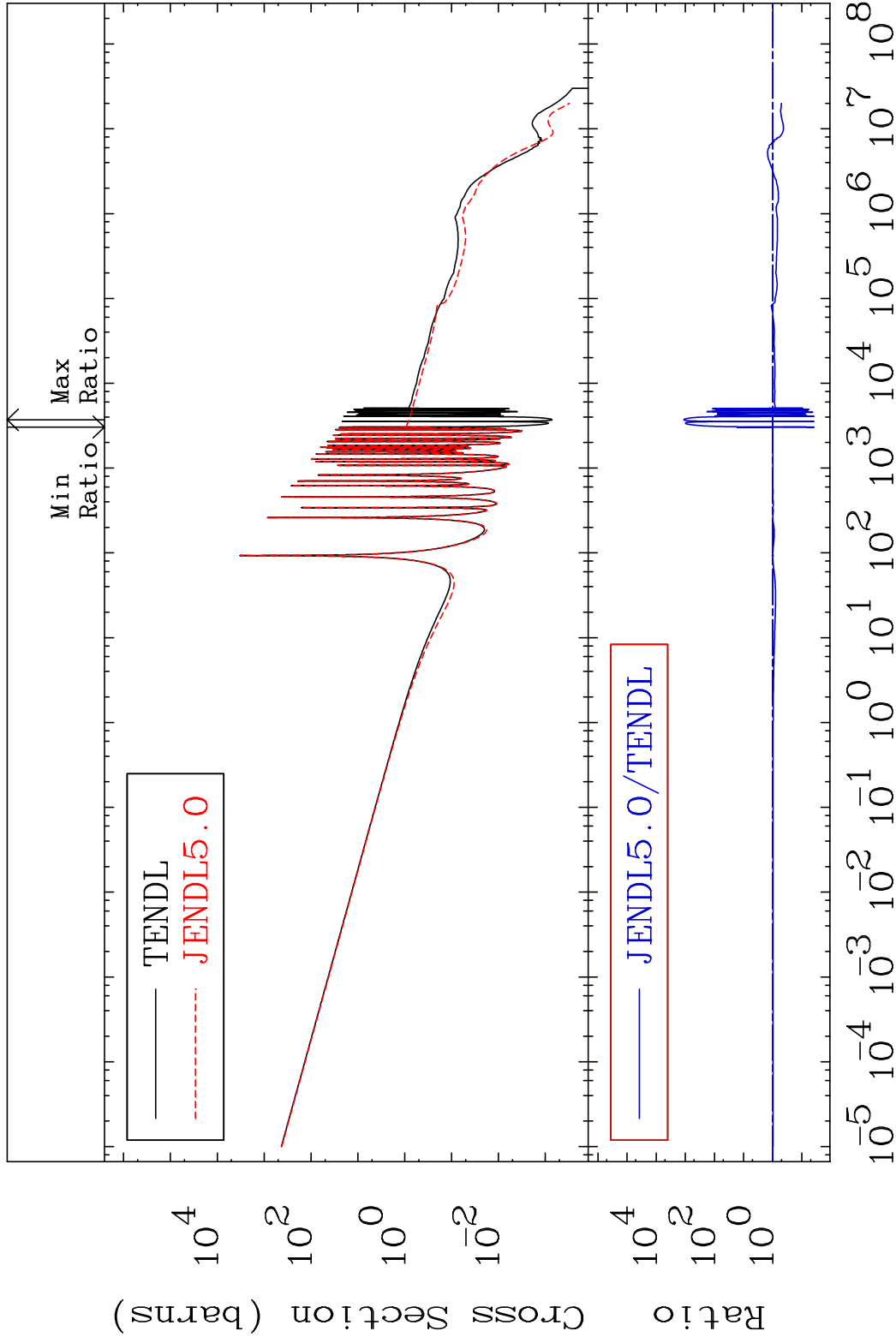
62-Sm-154

MAT 6255

(n, γ)

62-Sm-154

Cross Section -96.20 To 9999. %



40

Incident Energy (eV)

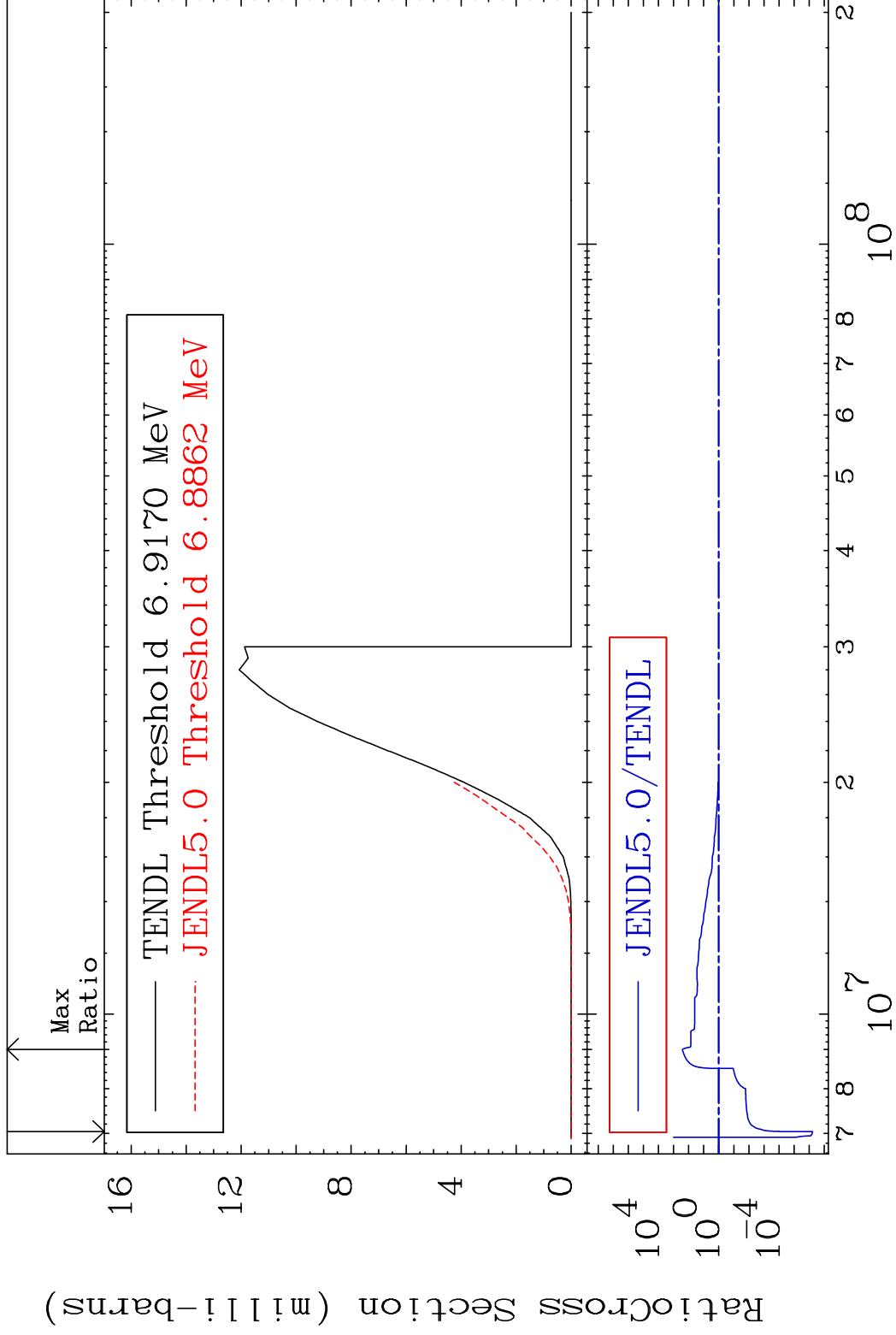
62-Sm-154

MAT 6255

(n, d)

62-Sm-154

Cross Section -100.0 To 9999. %



42

Incident Energy (eV)

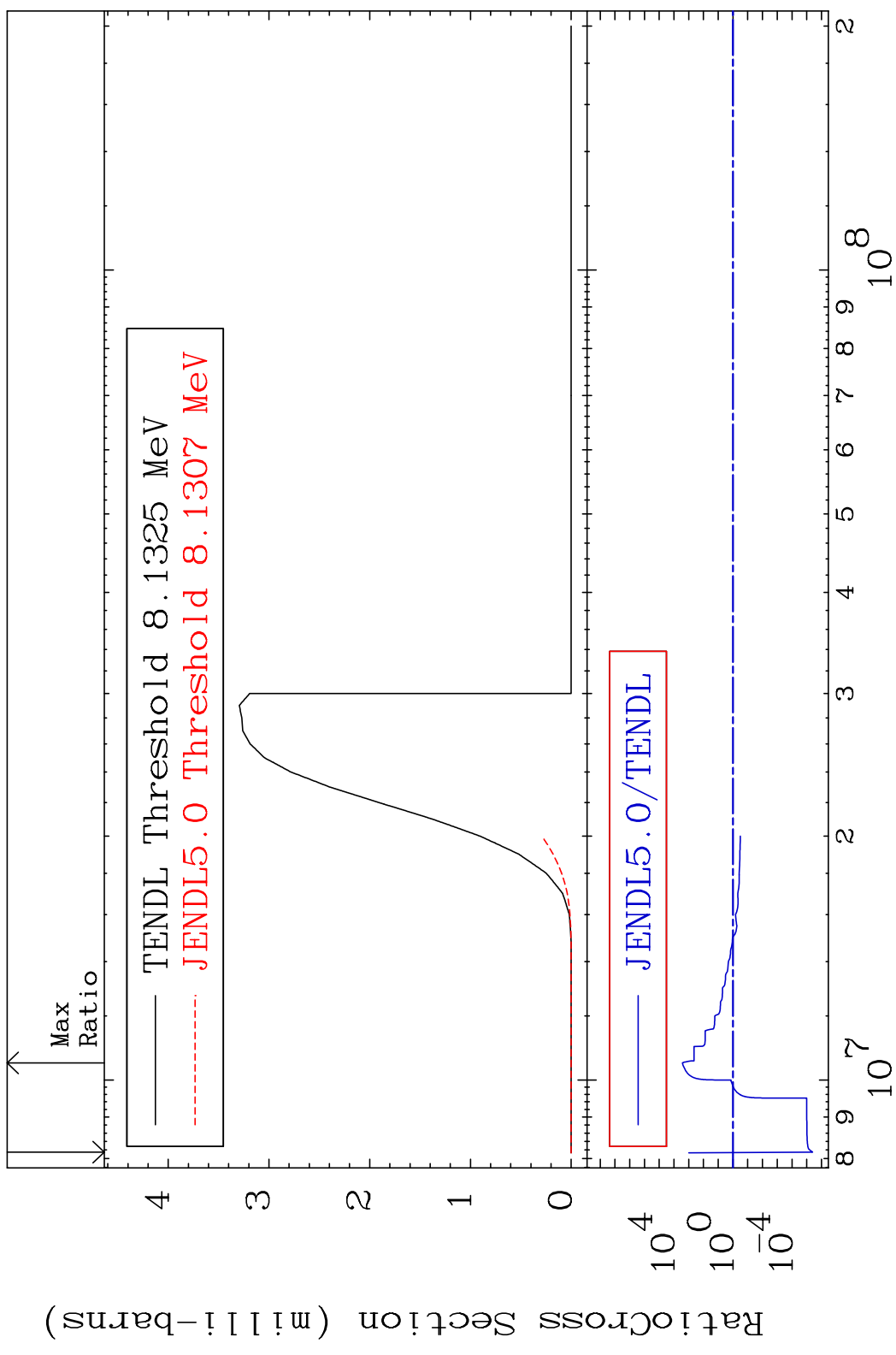
62-Sm-154

MAT 6255

(n, t)

62-Sm-154

Cross Section -100.0 To 9999. %

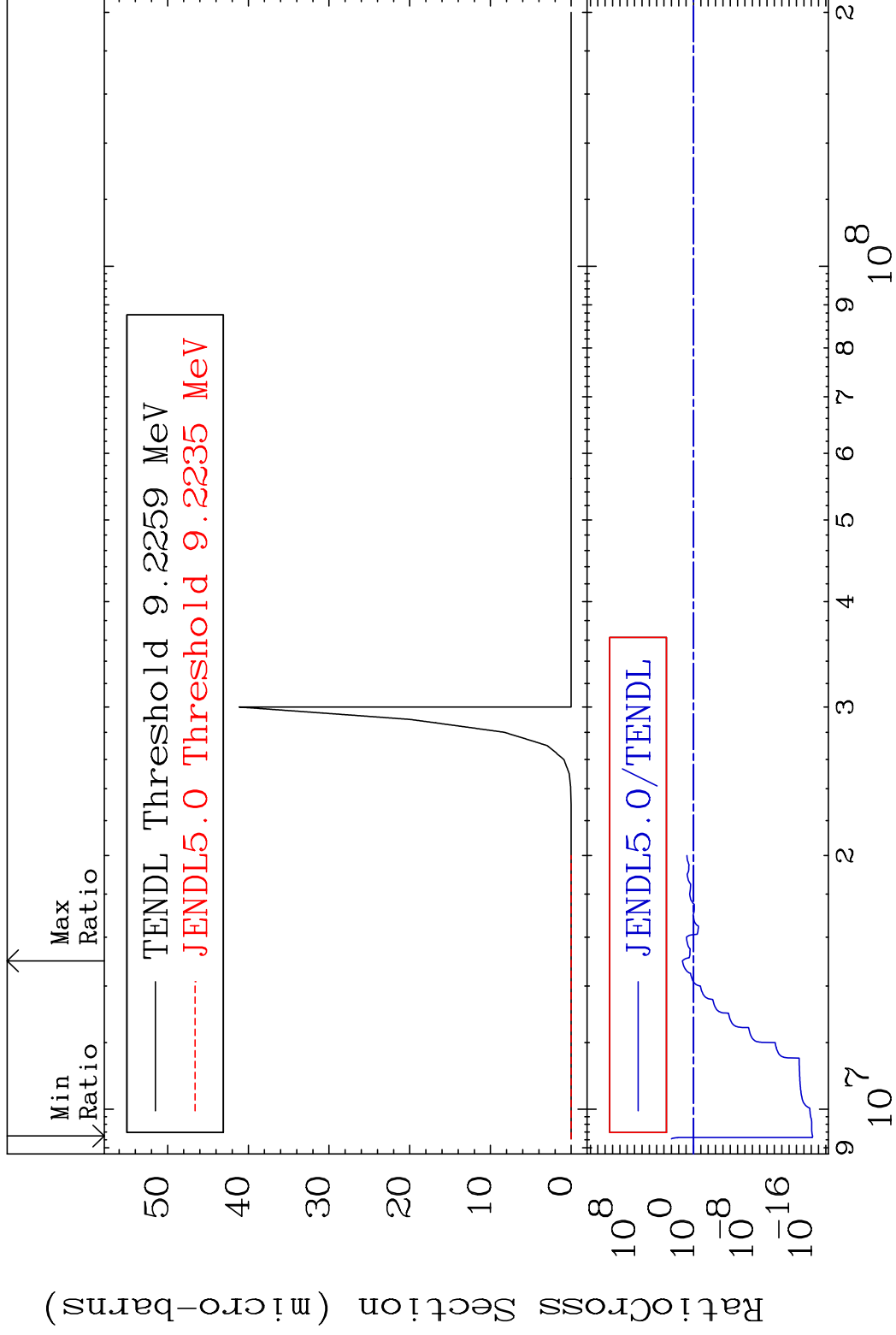


MAT 6255

(n, He-3)

62-Sm-154

Cross Section -100.0 To 3121. %



44

Incident Energy (eV)

62-Sm-154

MAT 6255

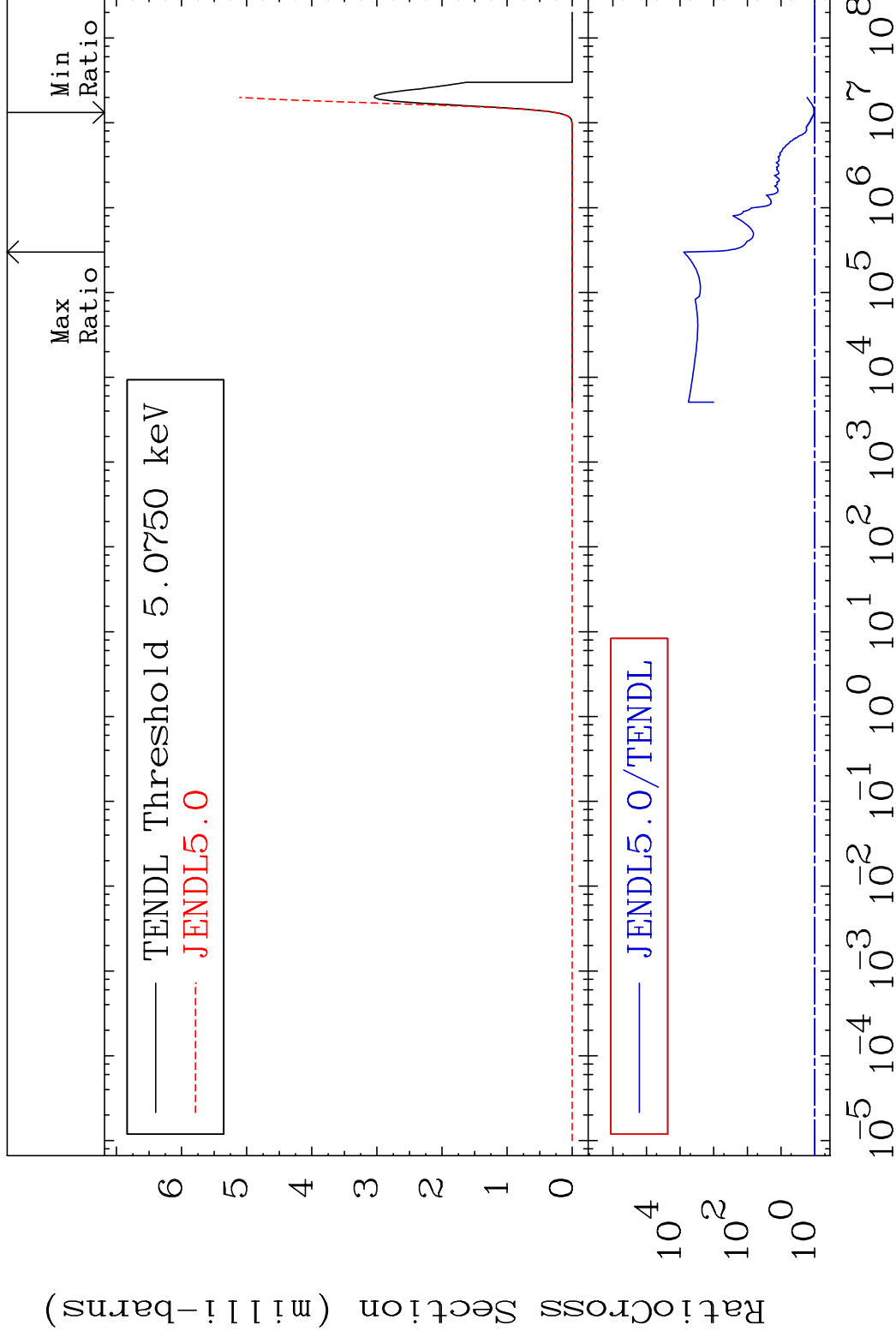
(n, α)

62-Sm-154

Cross Section

3.996

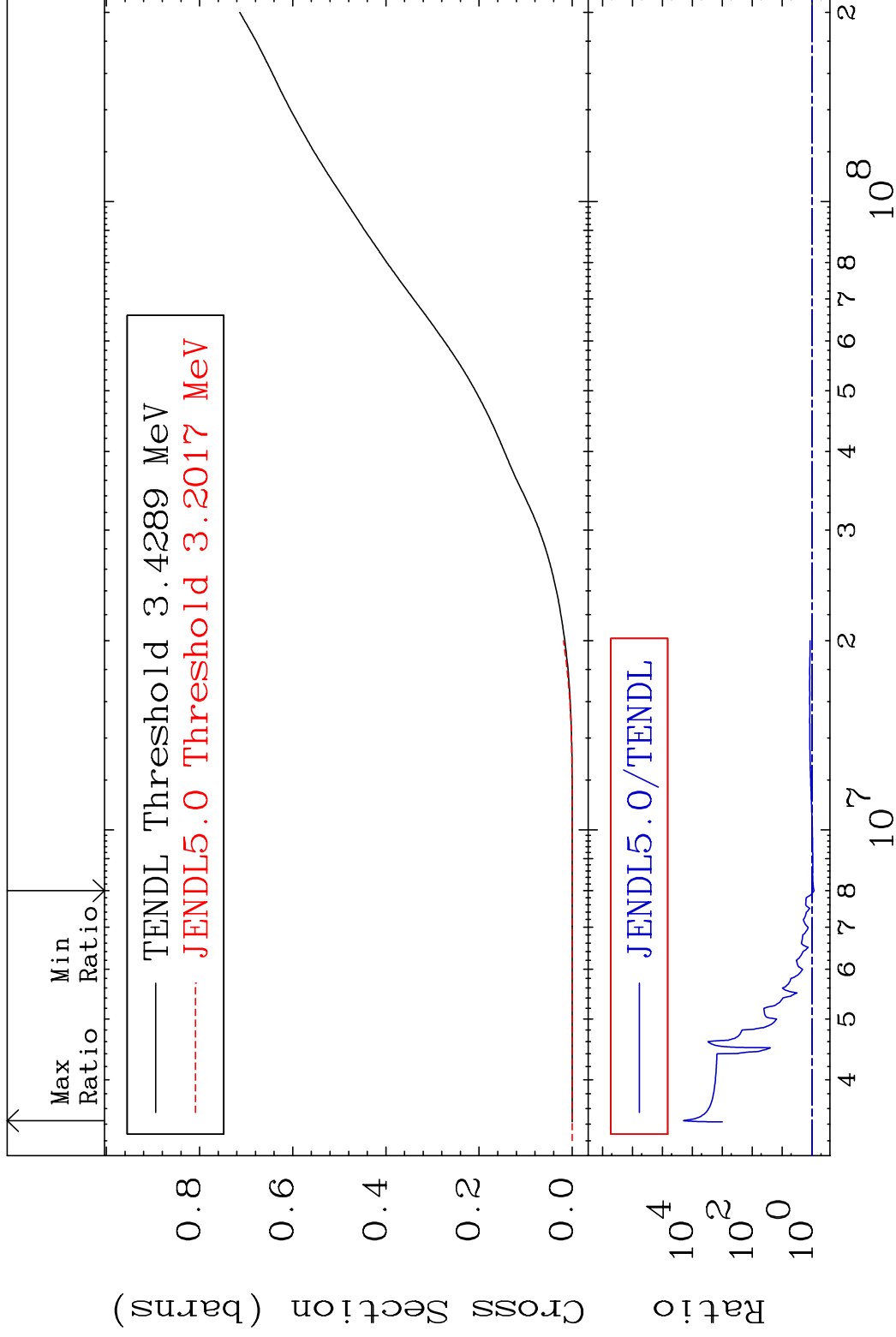
To 9999. %



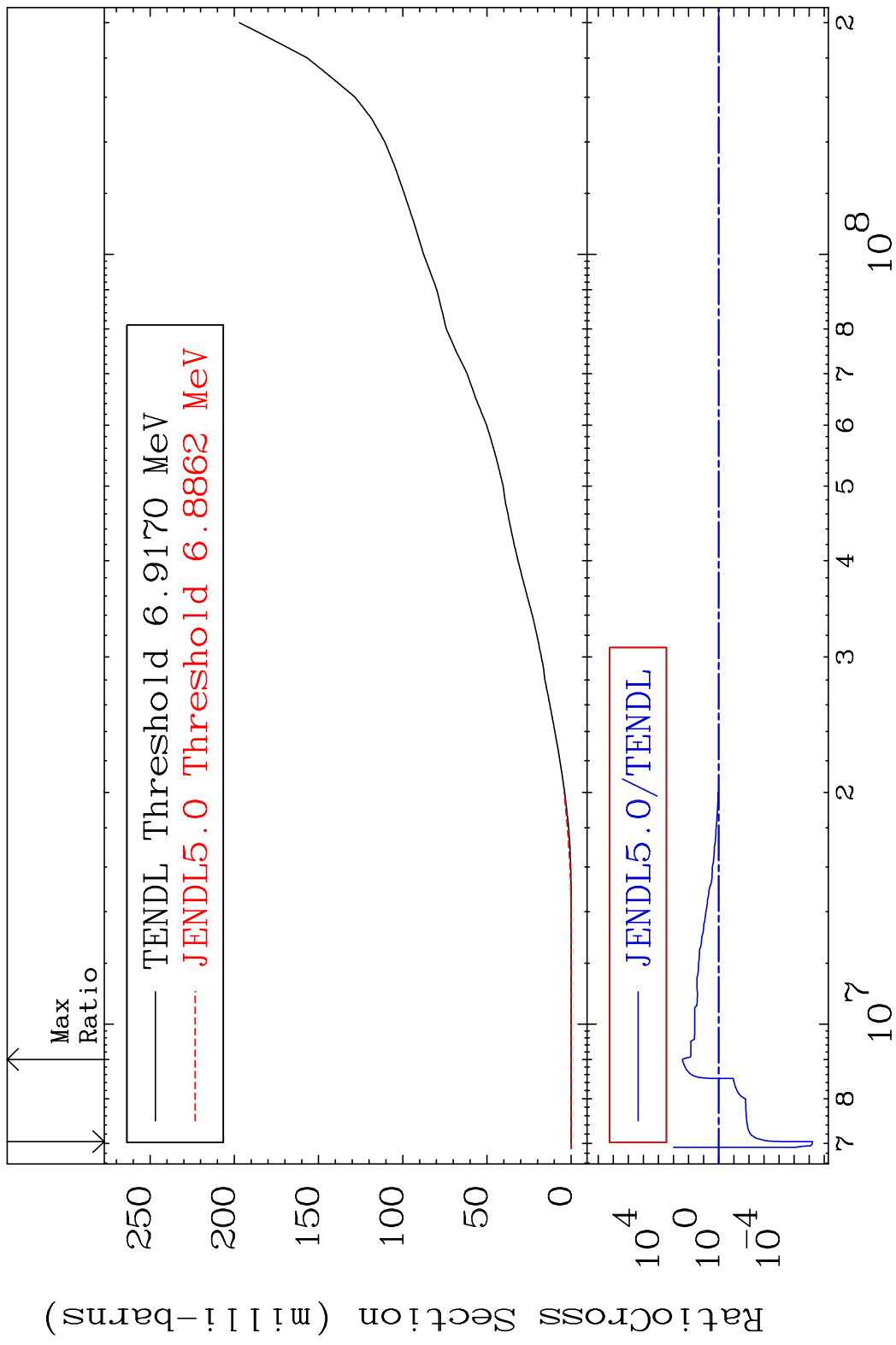
45

Incident Energy (eV)

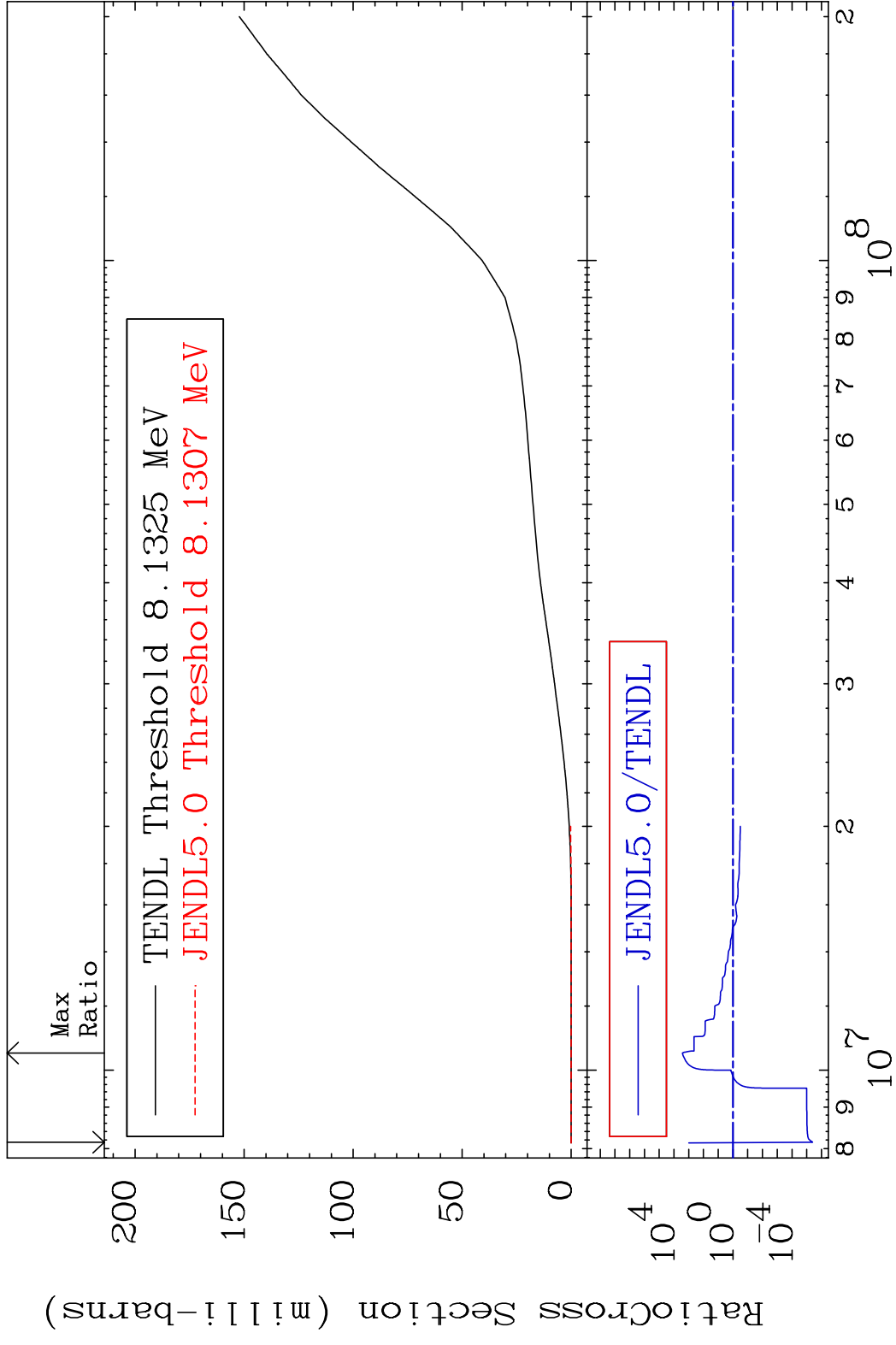
62-Sm-154



MAT 6255 Deuterium Production 62-Sm-154
 Cross Section -100.0 To 9999. %



MAT 6255 Tritium Production 62-Sm-154
 Cross Section -100.0 To 9999. %

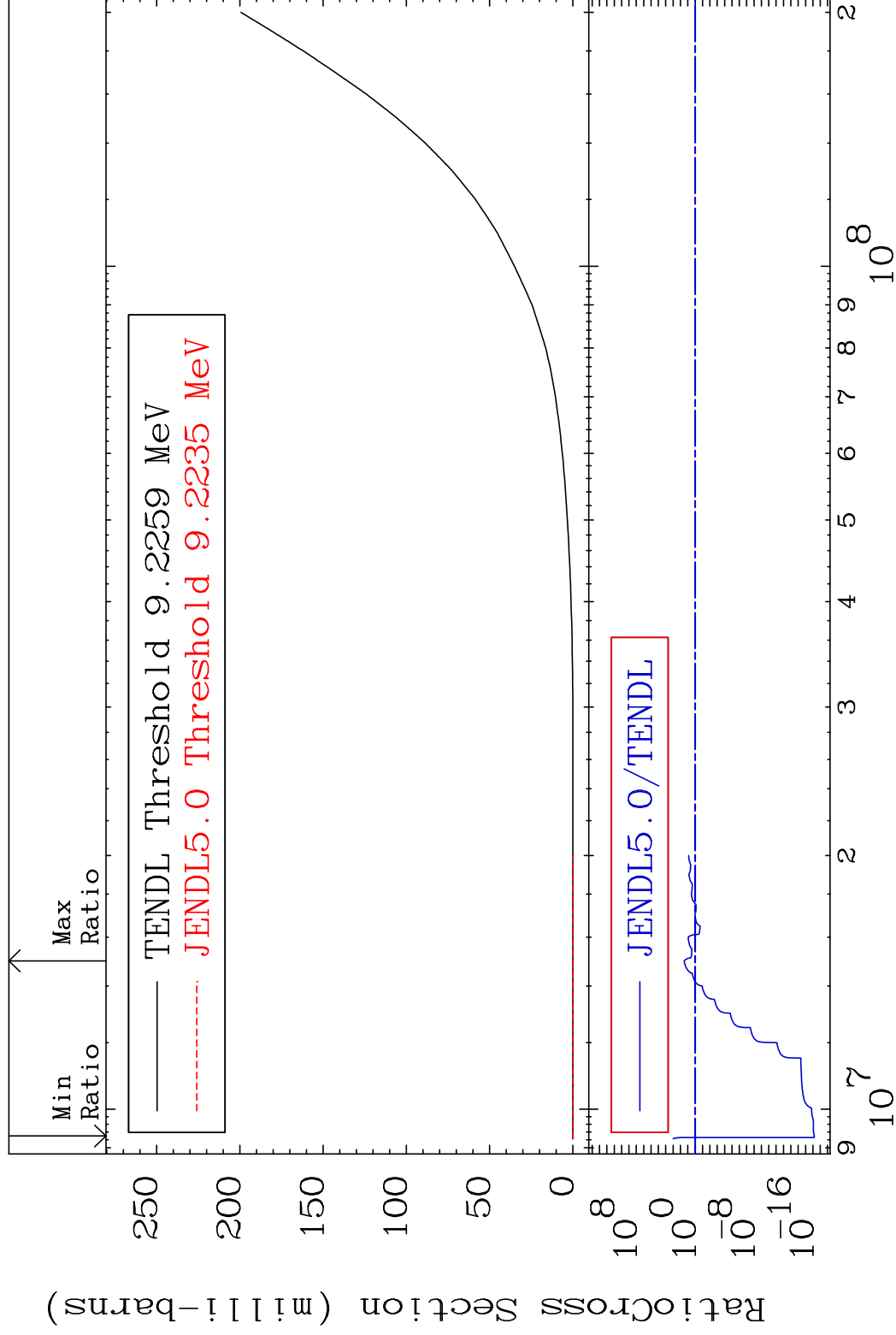


MAT 6255

He-3 Production

62-Sm-154

Cross Section -100.0 To 3121. %



49

Incident Energy (eV)

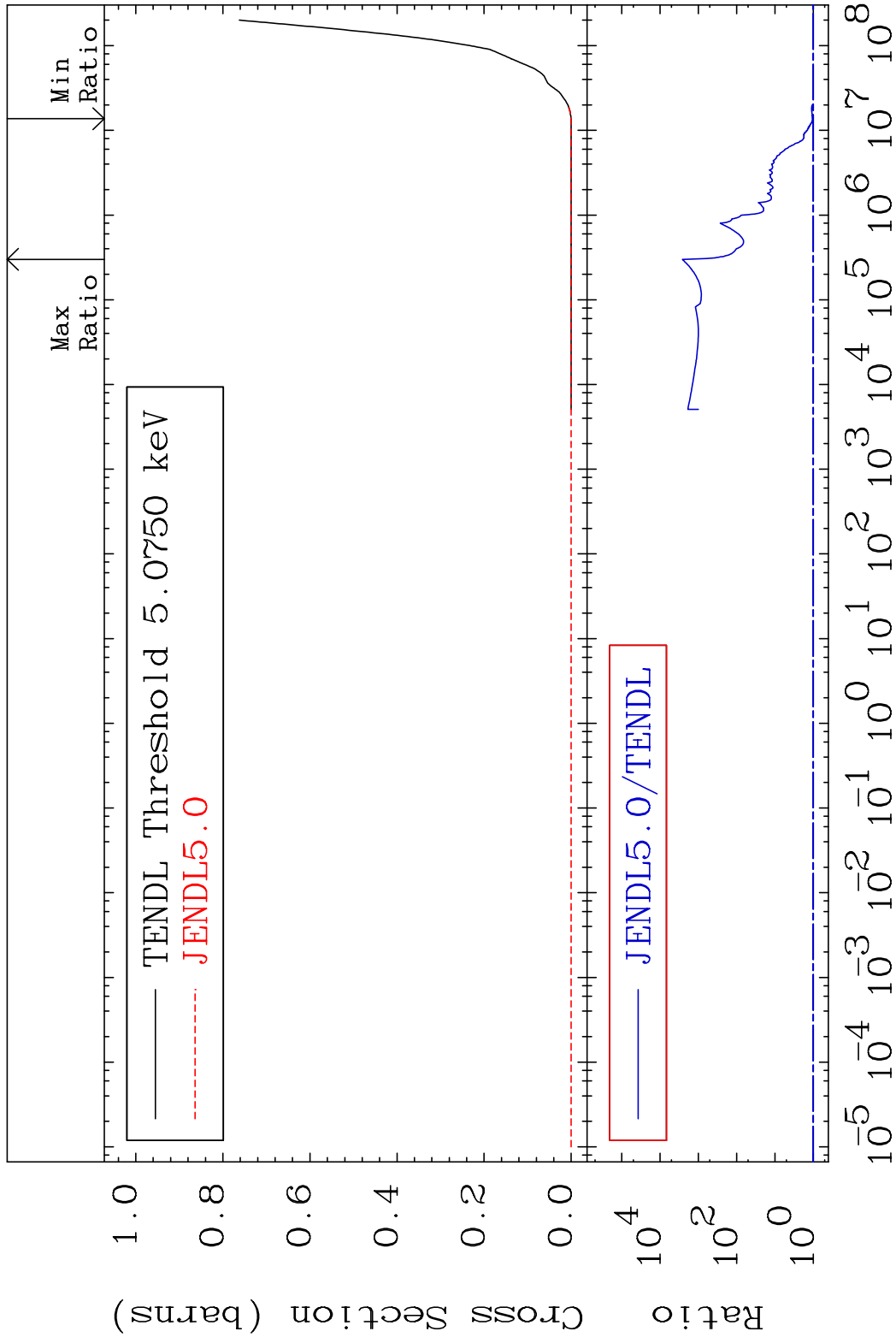
62-Sm-154

MAT 6255

He-4 Production

62-Sm-154

Cross Section 3.803 To 9999. %

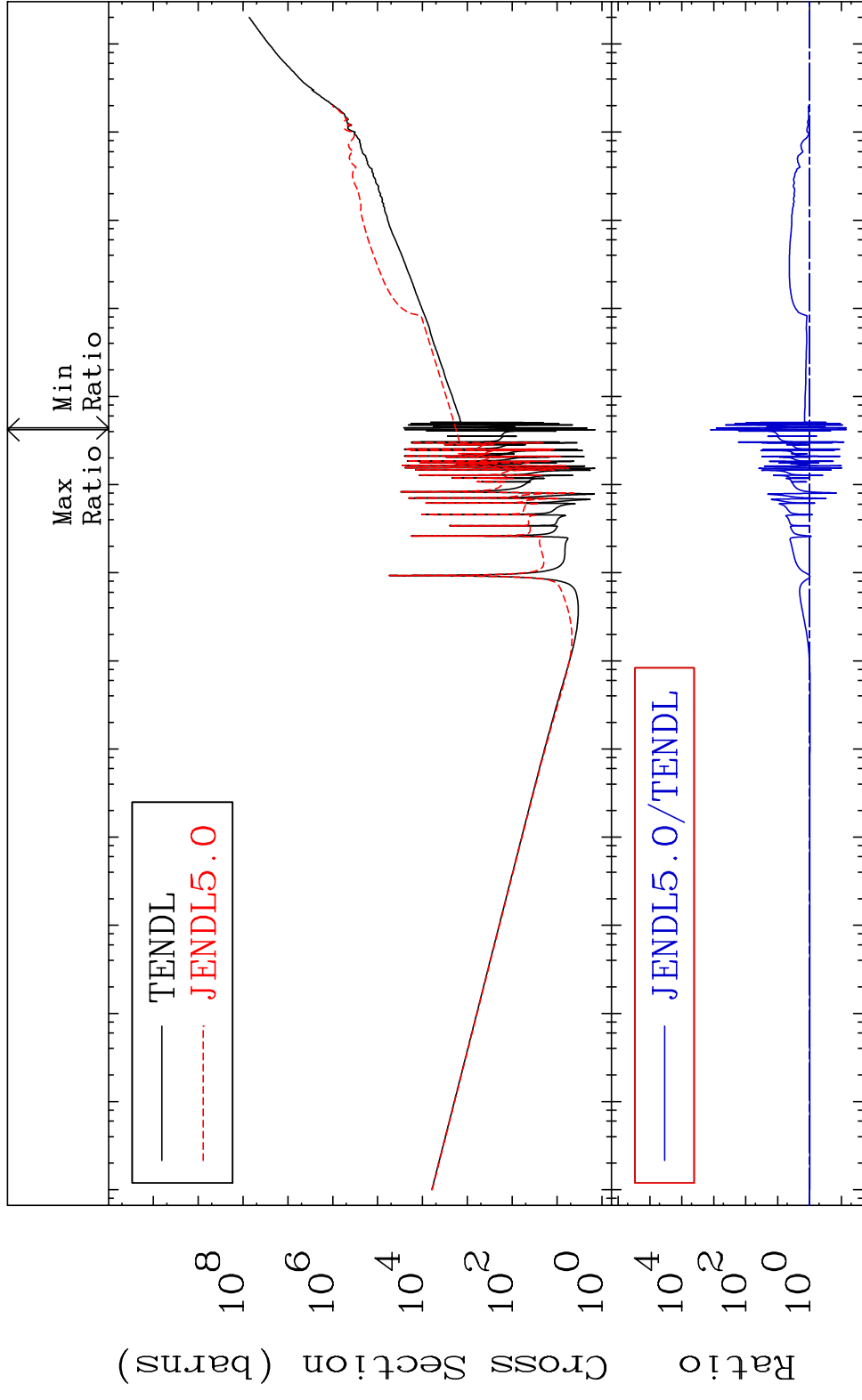


50

Incident Energy (eV)

62-Sm-154

MAT 6255 Kerma total (eV-barns) 62-Sm-154
 Cross Section -92.96 To 9999. %

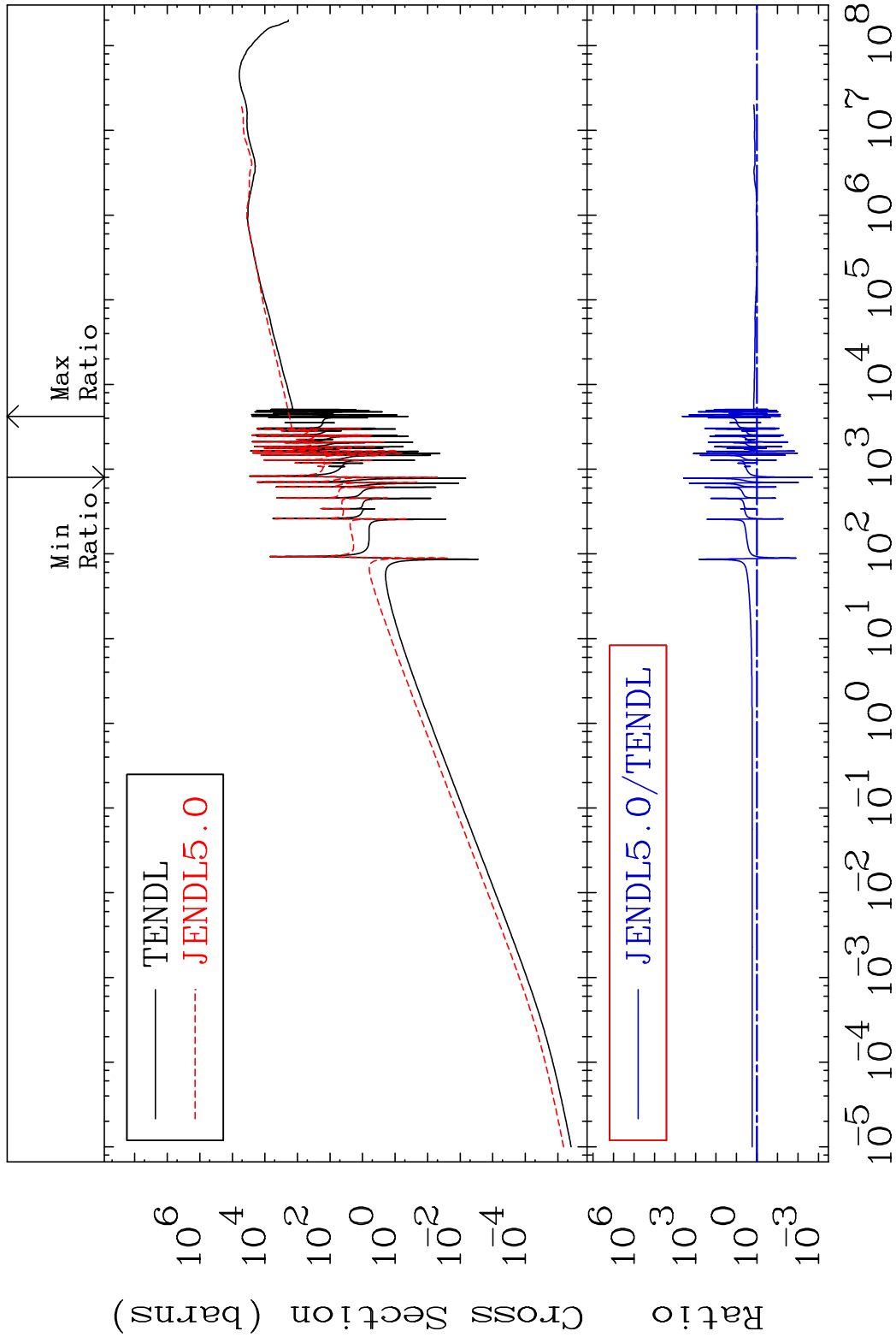


MAT 6255

Kerma elastic

62-Sm-154

Cross Section -99.81 To 9999. %

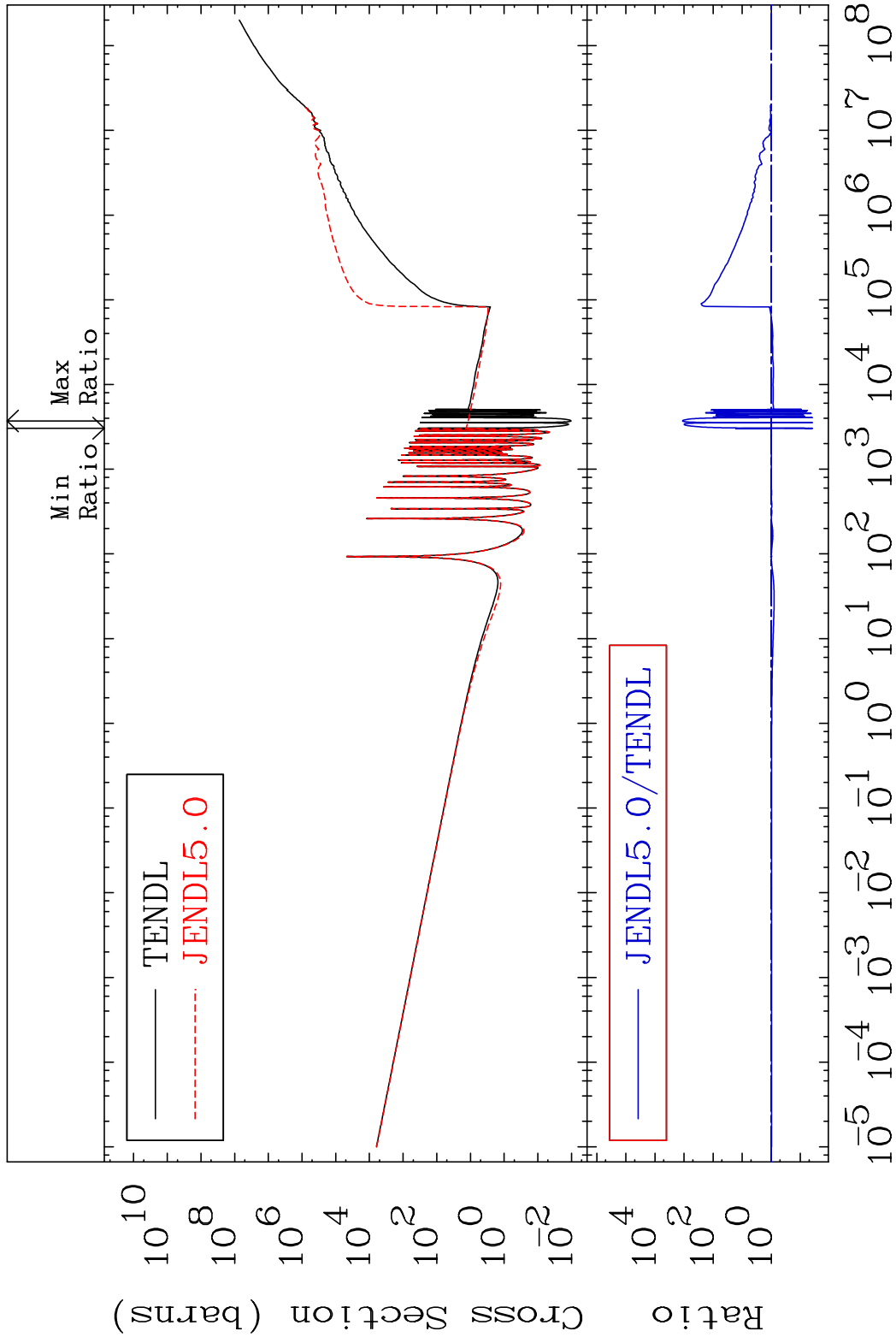


52

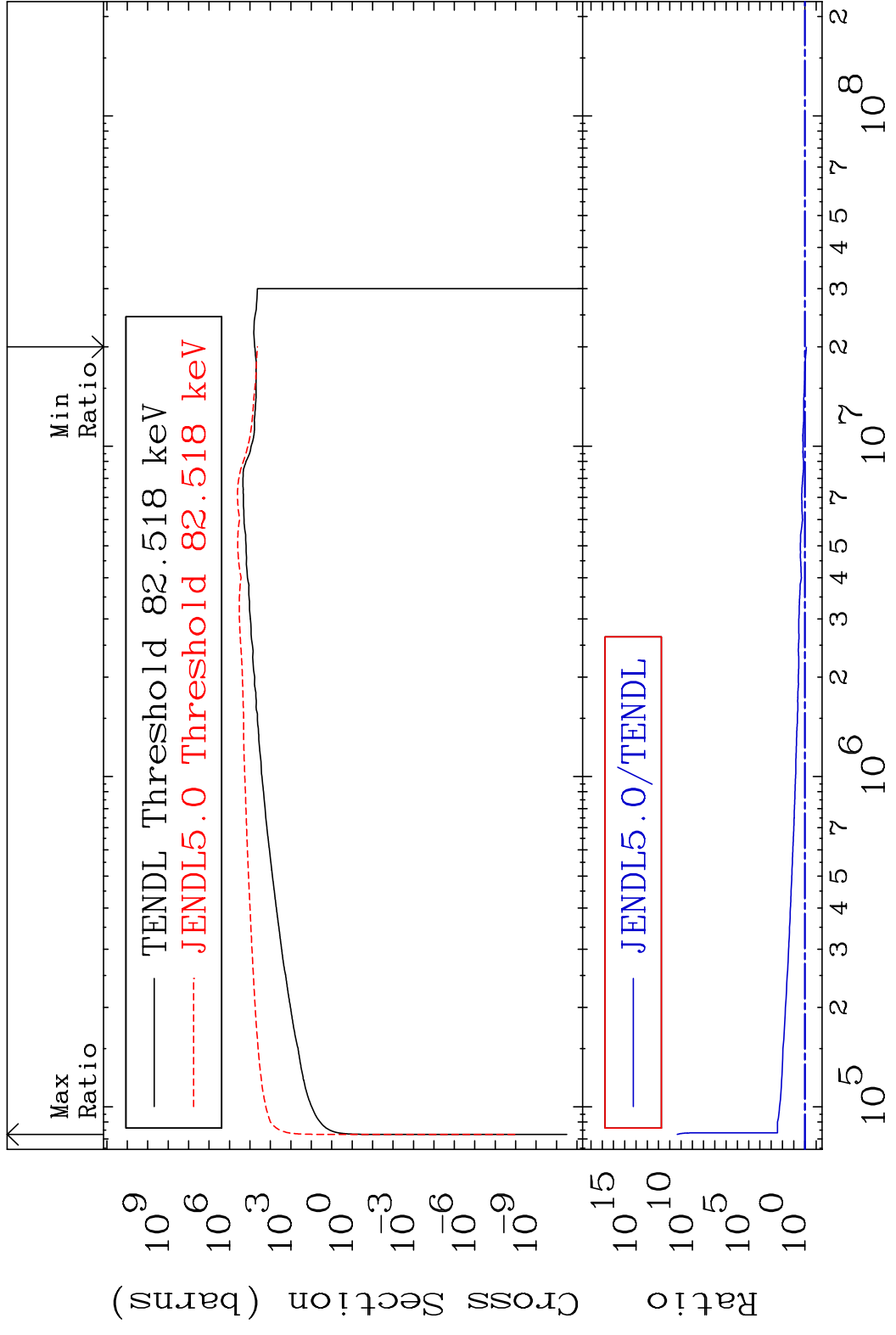
Incident Energy (eV)

62-Sm-154

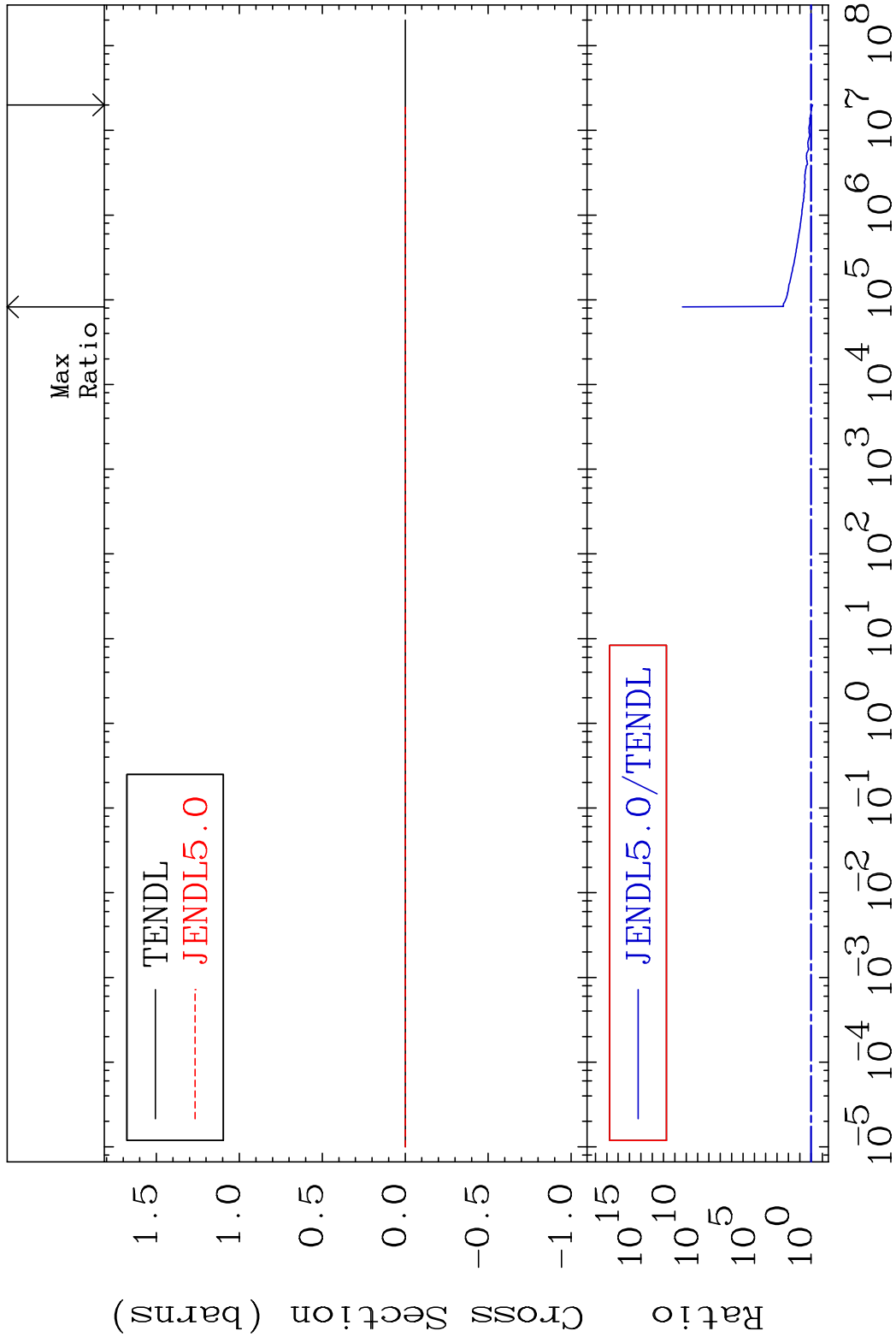
MAT 6255 Kerma non-elastic (all but mt2) 62-Sm-154
 Cross Section -96.19 To 9999. %



MAT 6255 Kerma inelastic (mt51-91) 62-Sm-154
 Cross Section -25.35 To 9999. %

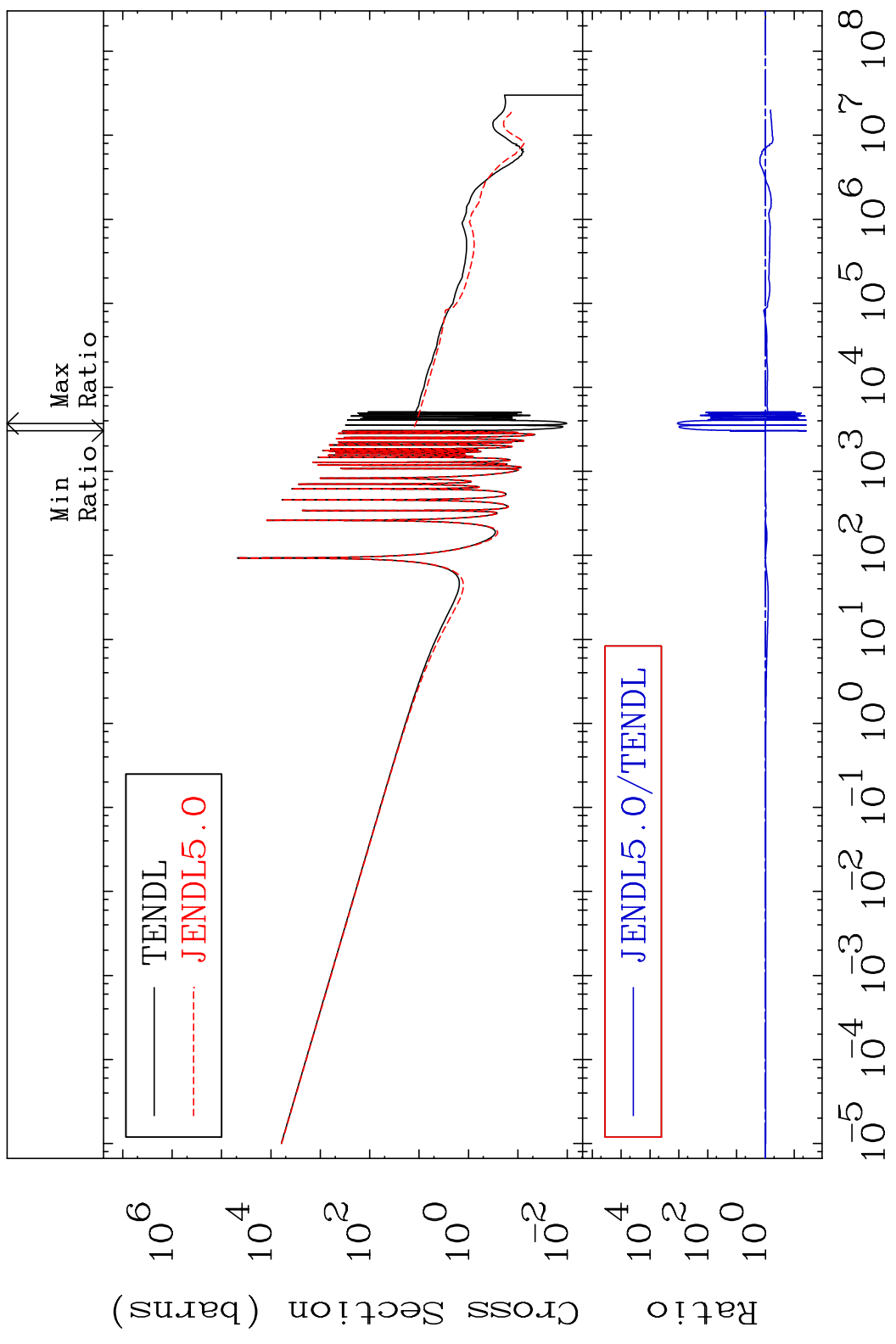


MAT 6255 Kerma fission (mt18 or mt19-20-21-38) ^{62}Sm -154
 Cross Section -25.35 To 9999. %



MAT 6255

Kerma capture (mt102) 62-Sm-154
Cross Section -96.19 To 9999. %

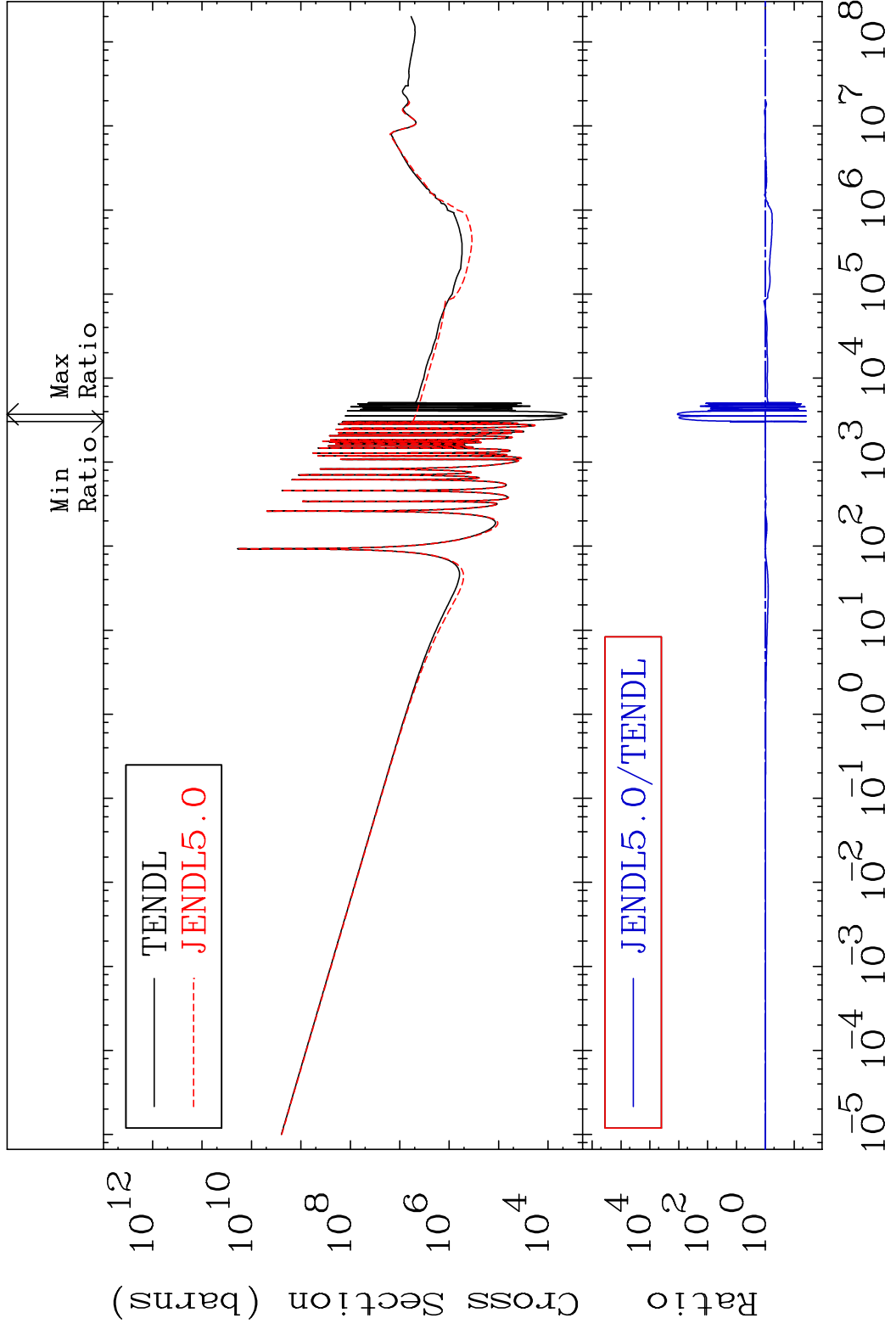


56

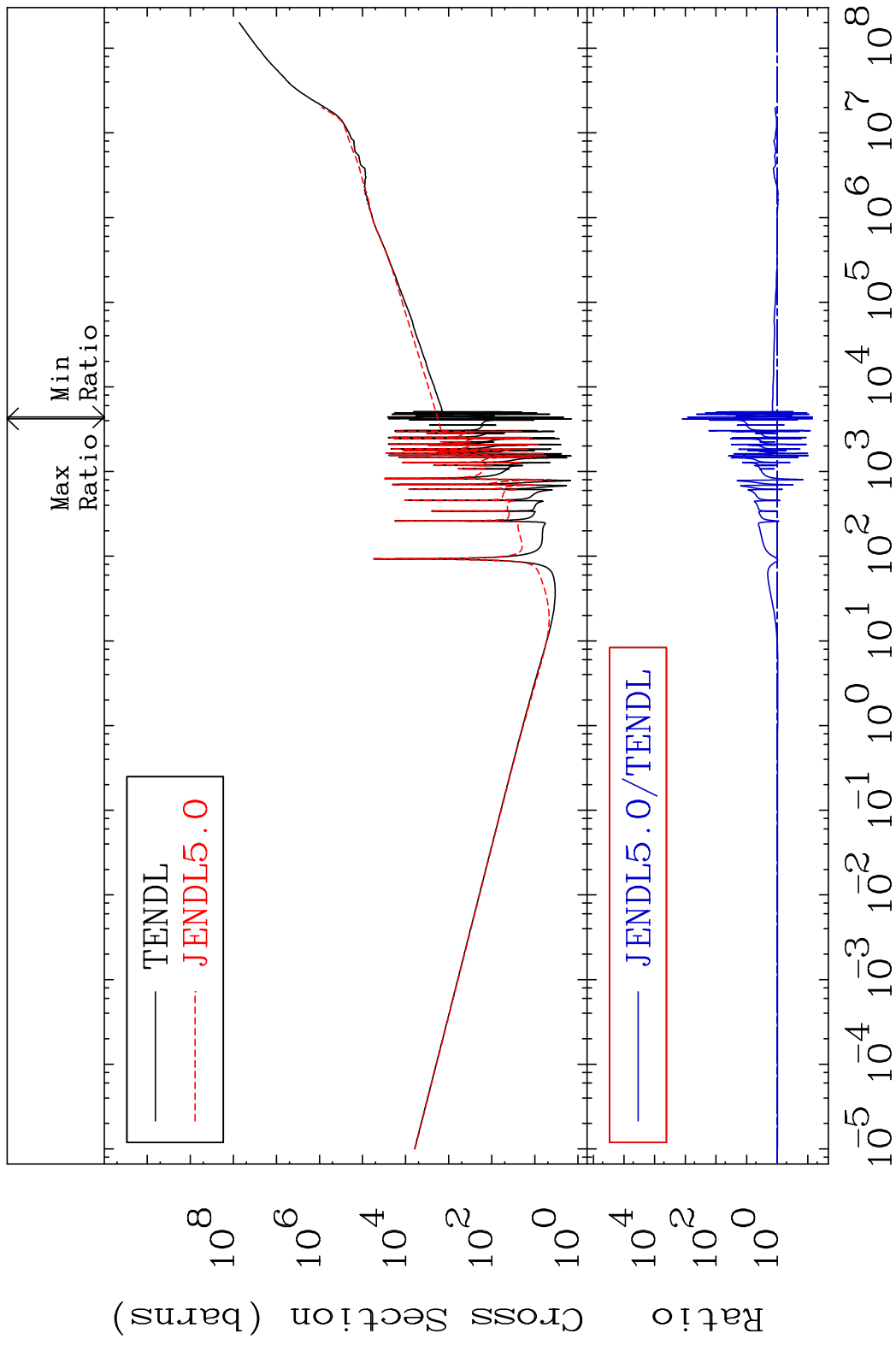
Incident Energy (eV) 62-Sm-154

MAT 6255

Total photon (eV-barns) 62-Sm-154
Cross Section -96.22 To 9999. %



MAT 6255 Total kinematic kerma (high limit) 62-Sm-154
 Cross Section -92.96 To 9999. %

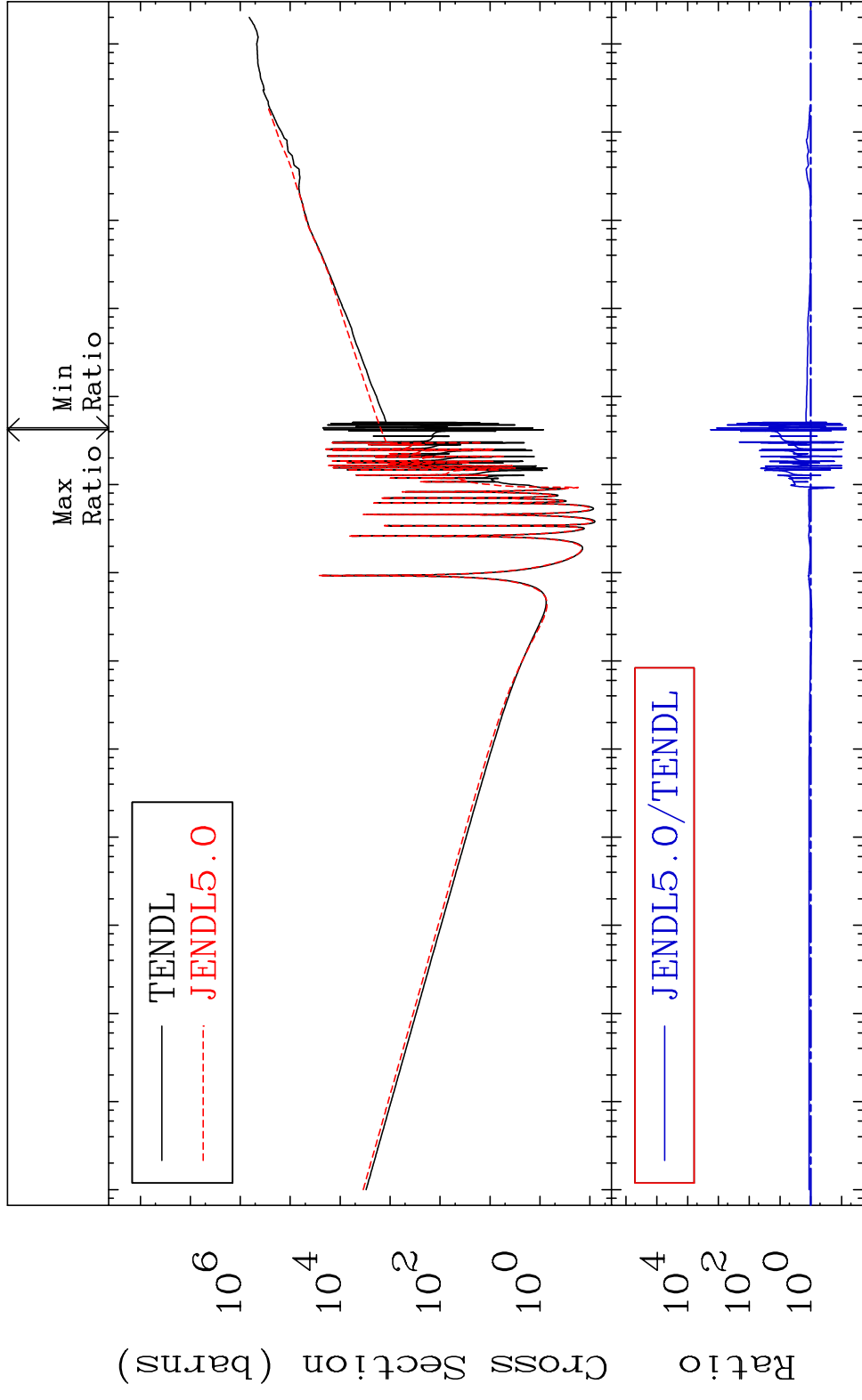


MAT 6255

Dpa total (eV-barns)

62-Sm-154

Cross Section -92.97 To 9999. %

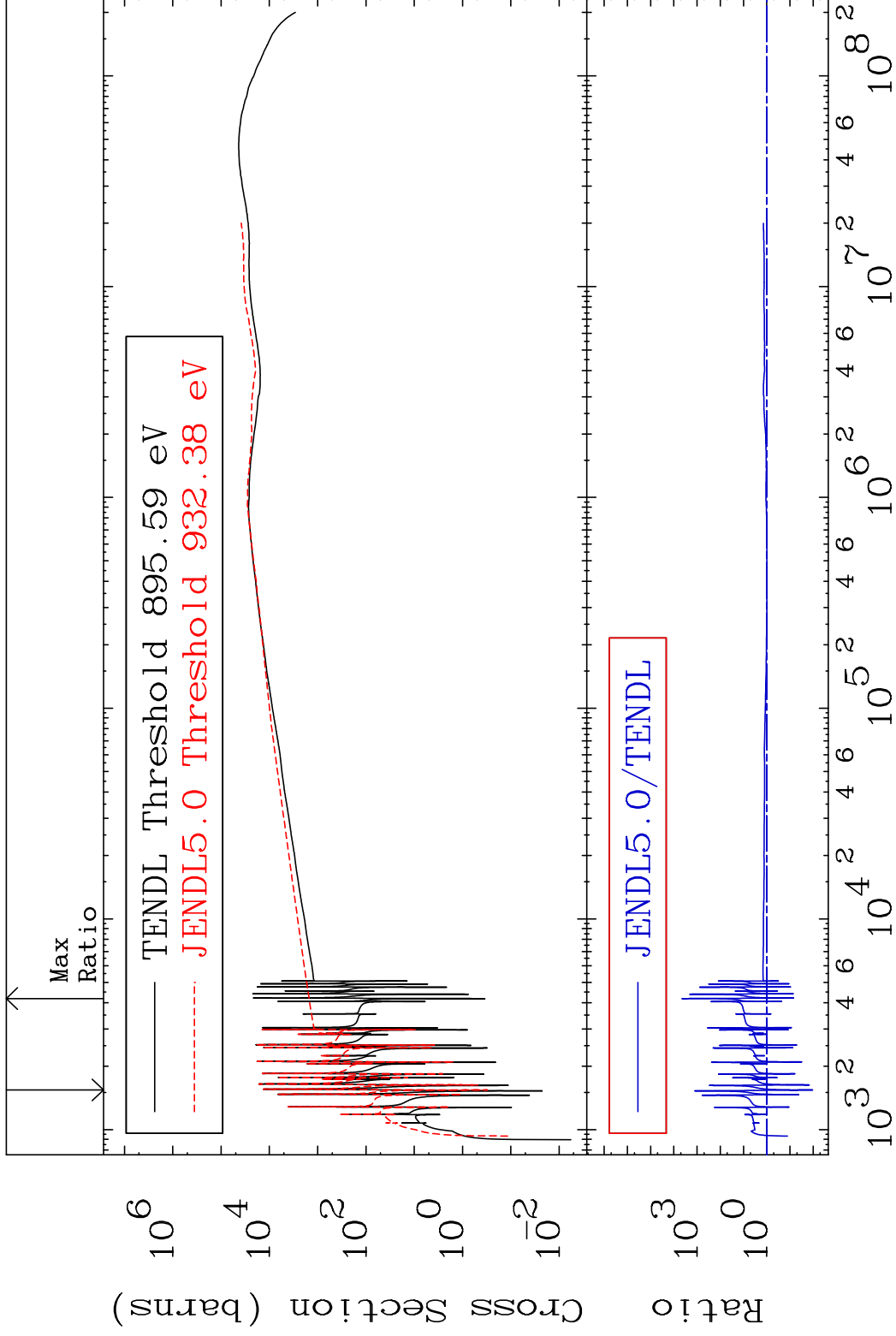


MAT 6255

Dpa elastic (mt2)

62-Sm-154

Cross Section -98.93 To 9999. %

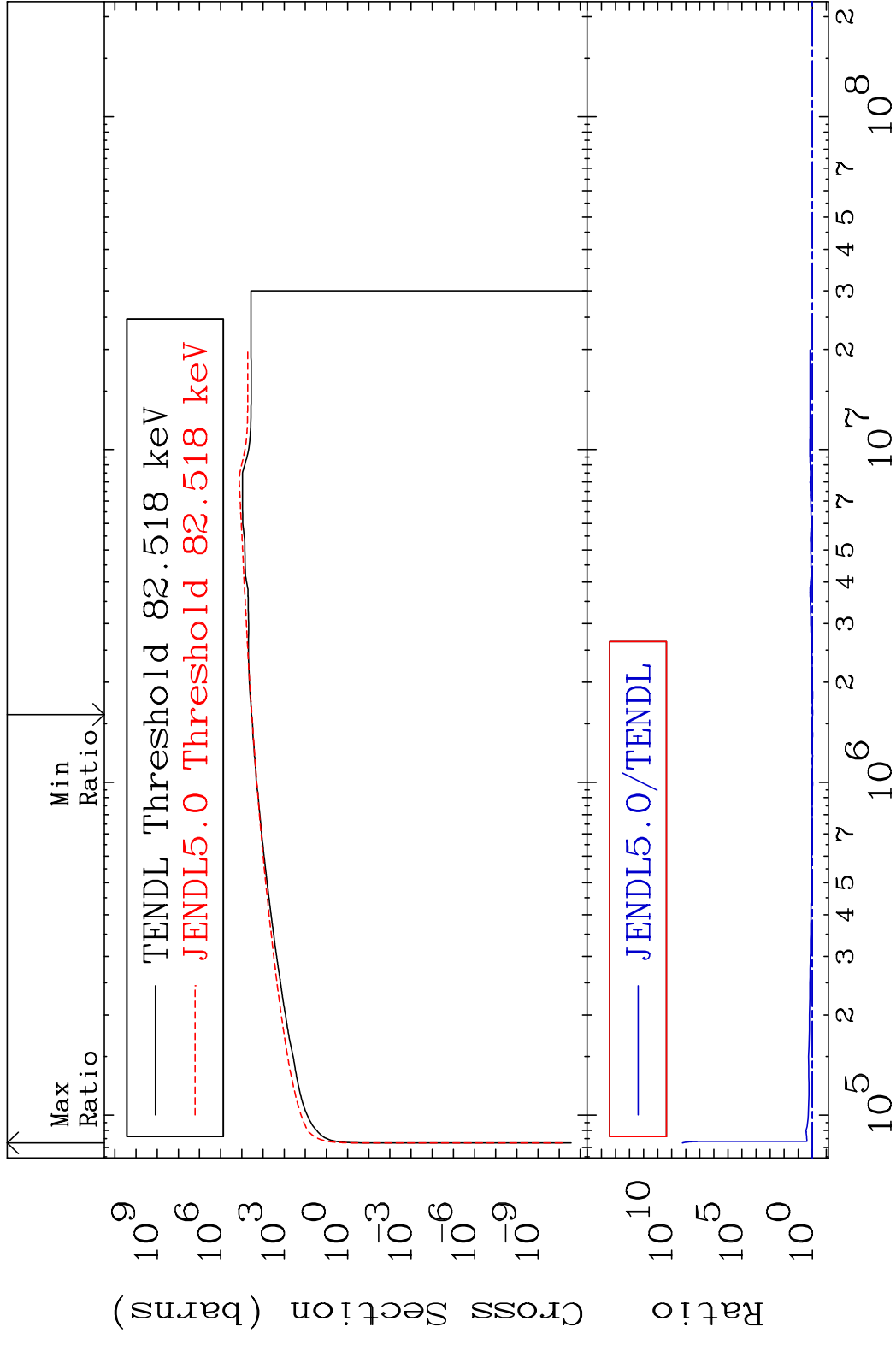


60

Incident Energy (eV)

62-Sm-154

MAT 6255 Dpa inelastic (mt51-91) 62-Sm-154
 Cross Section -4.271 To 9999. %



MAT 6255 Dpa disappearance (mt102 -120) 62-Sm-154
 Cross Section -95.59 To 9999. %

