

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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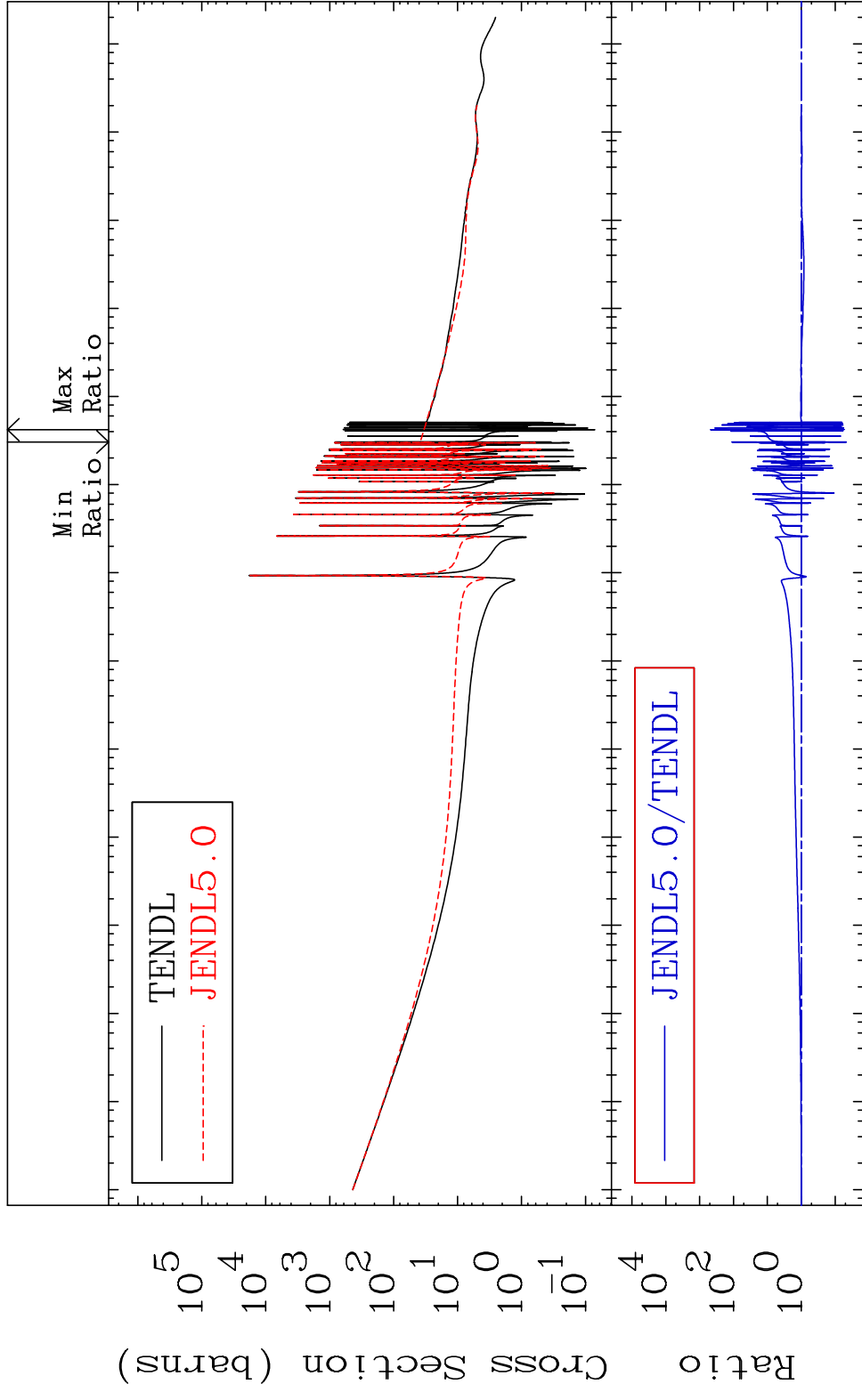
E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6255

Total Cross Section -95.33 To 9999. %
62-Sm-154



Cross Section (barns)
Ratio

10⁵ 10⁴ 10³ 10² 10¹ 10⁰ 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

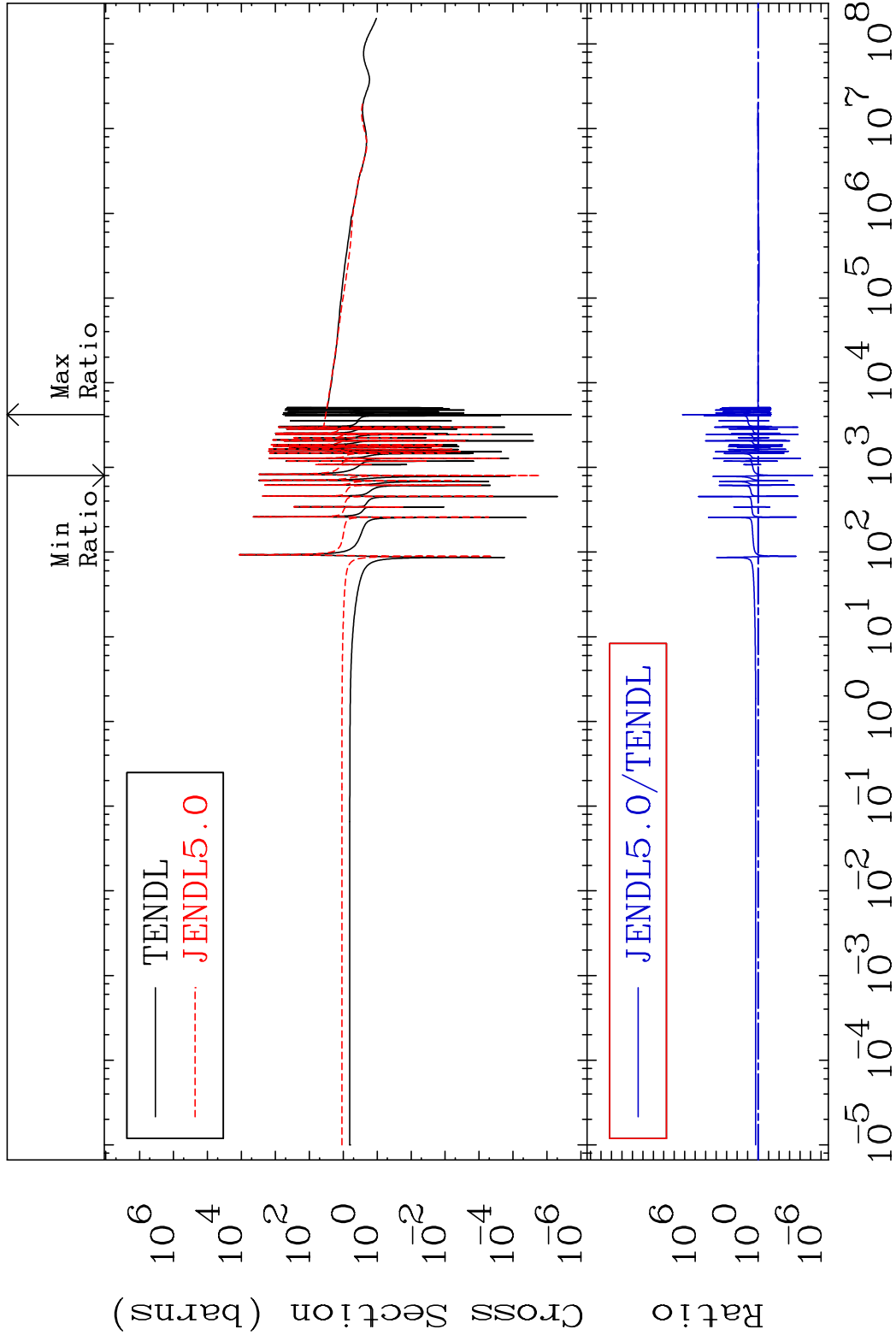
1 Incident Energy (eV) 62-Sm-154

MAT 6255

Elastic

62-Sm-154

Cross Section -100.0 To 9999. %



2

Incident Energy (eV)

62-Sm-154

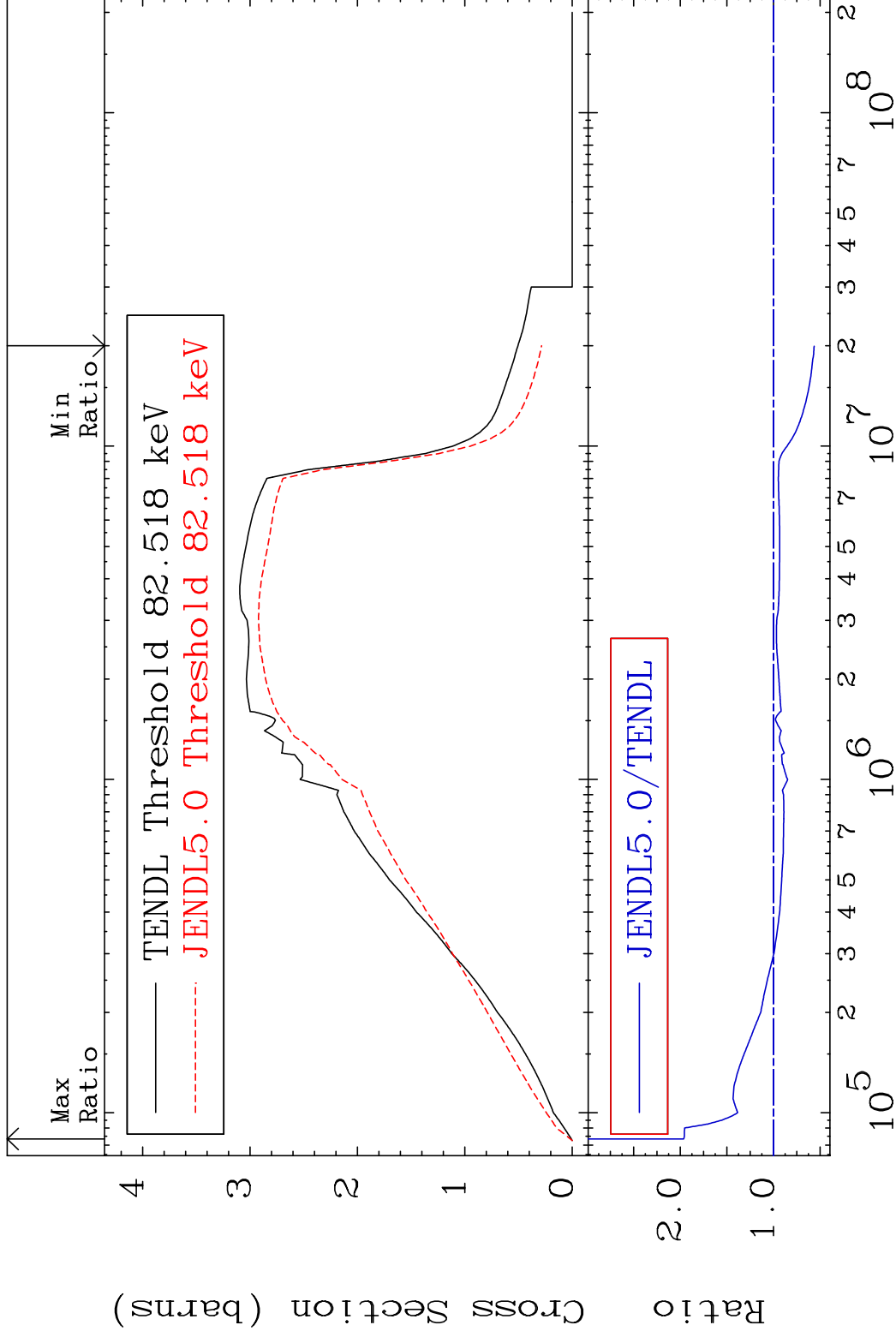
MAT 6255

Inelastic

62-Sm-154

Cross Section

-43.67 To 96.30 %



3

Incident Energy (eV)

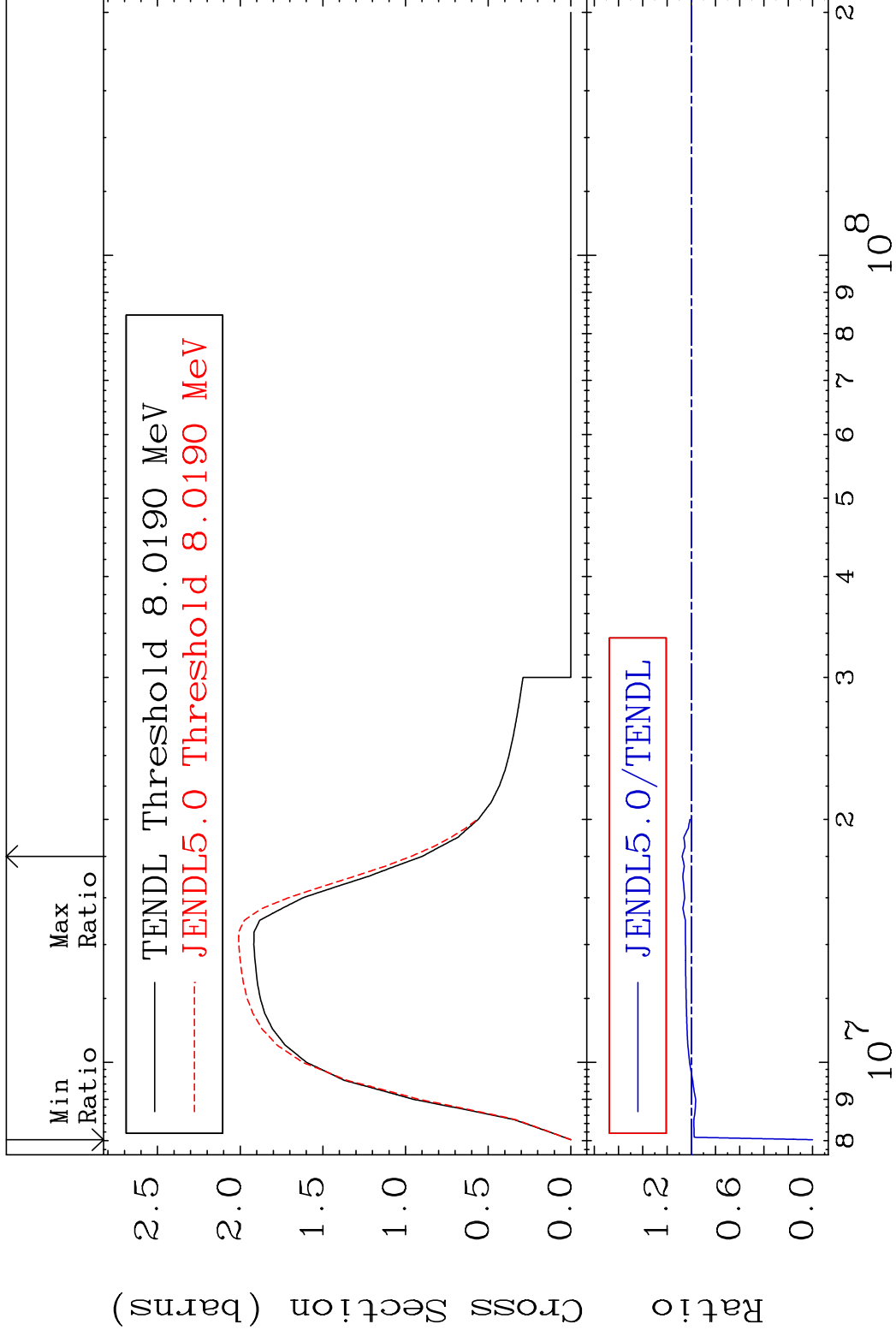
62-Sm-154

MAT 6255

(n,2n)

62-Sm-154

Cross Section -100.0 To 7.511 %



4

Incident Energy (eV)

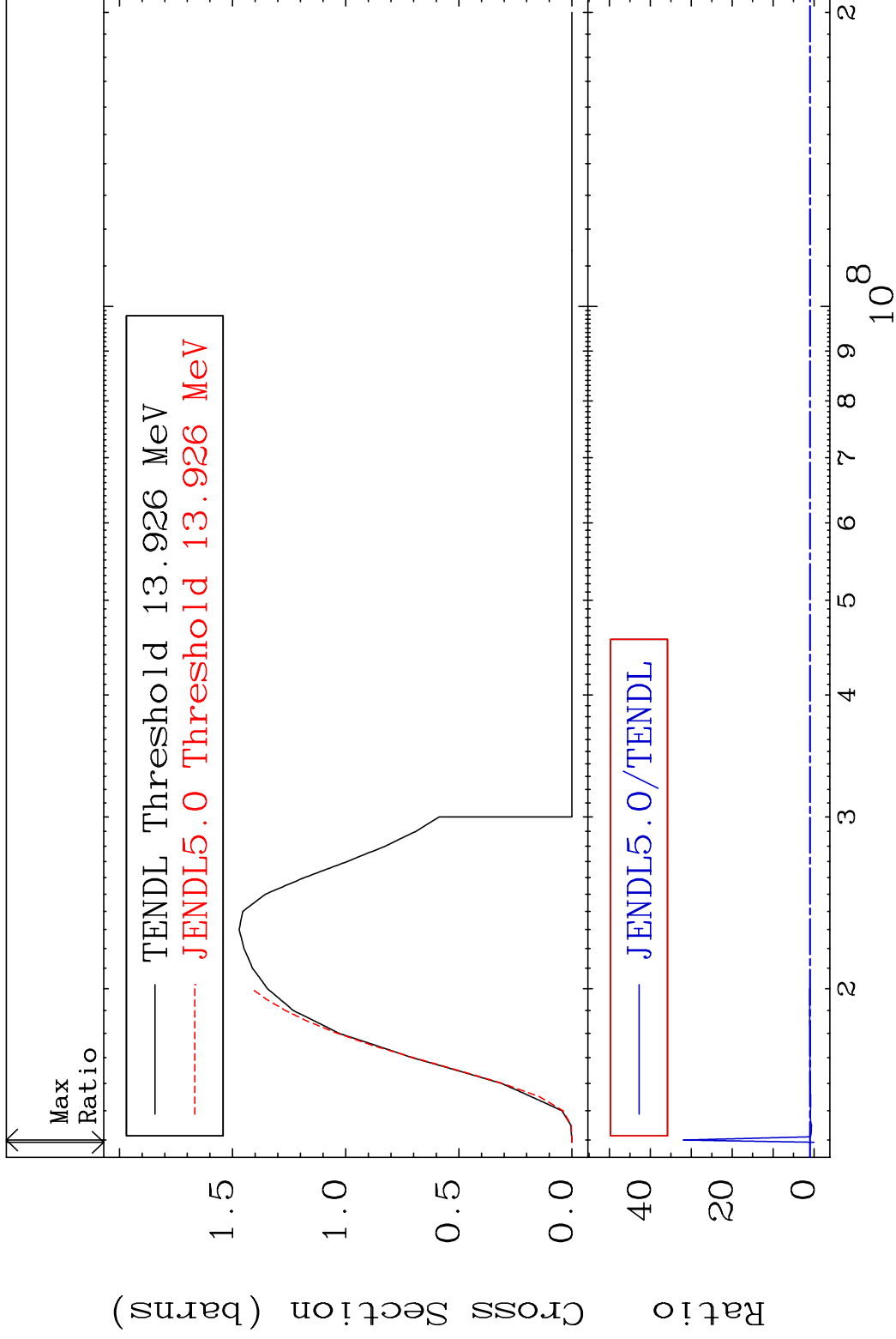
62-Sm-154

MAT 6255

(n,3n)

62-Sm-154

Cross Section -100.0 To 3091. %

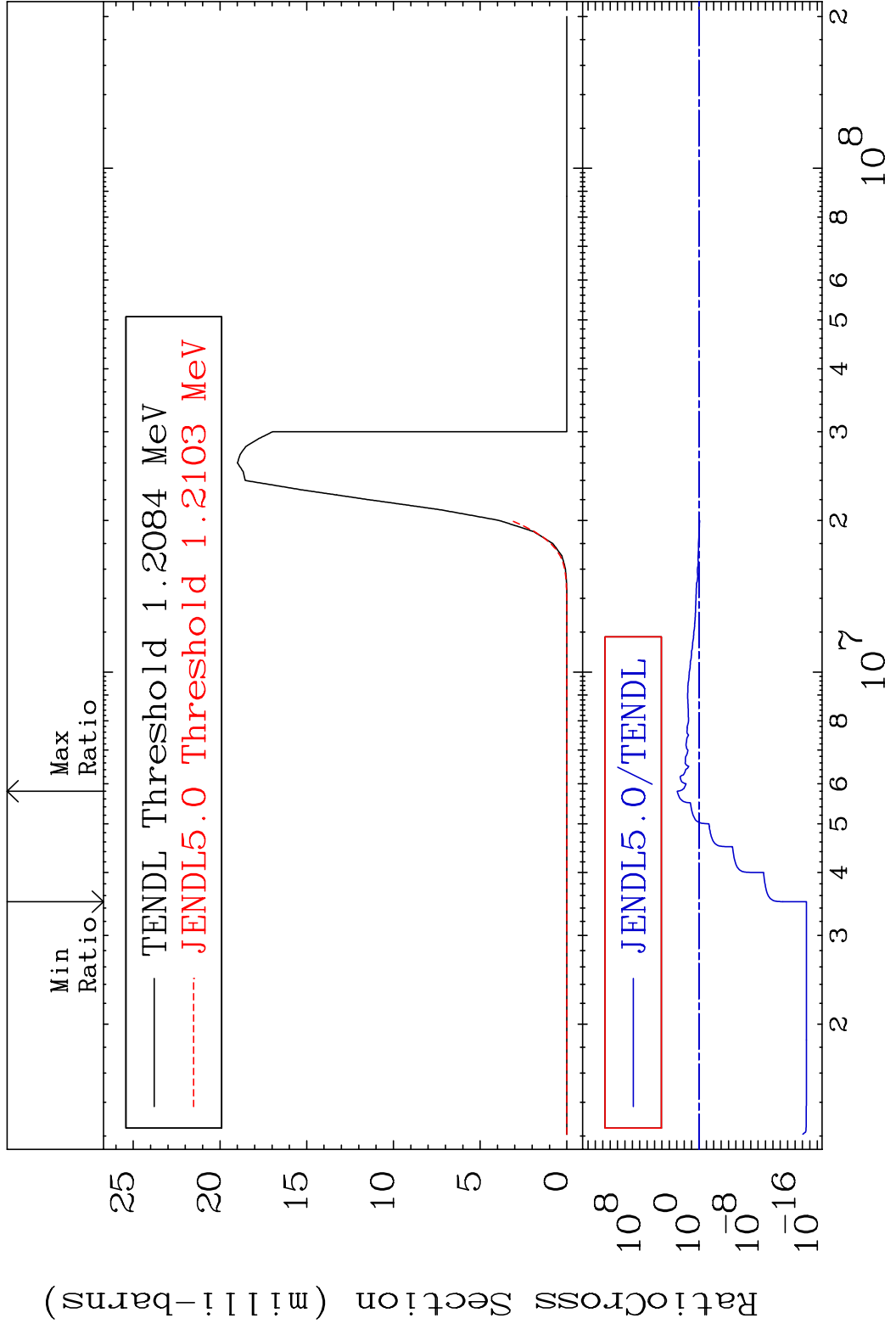


5

Incident Energy (eV)

62-Sm-154

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

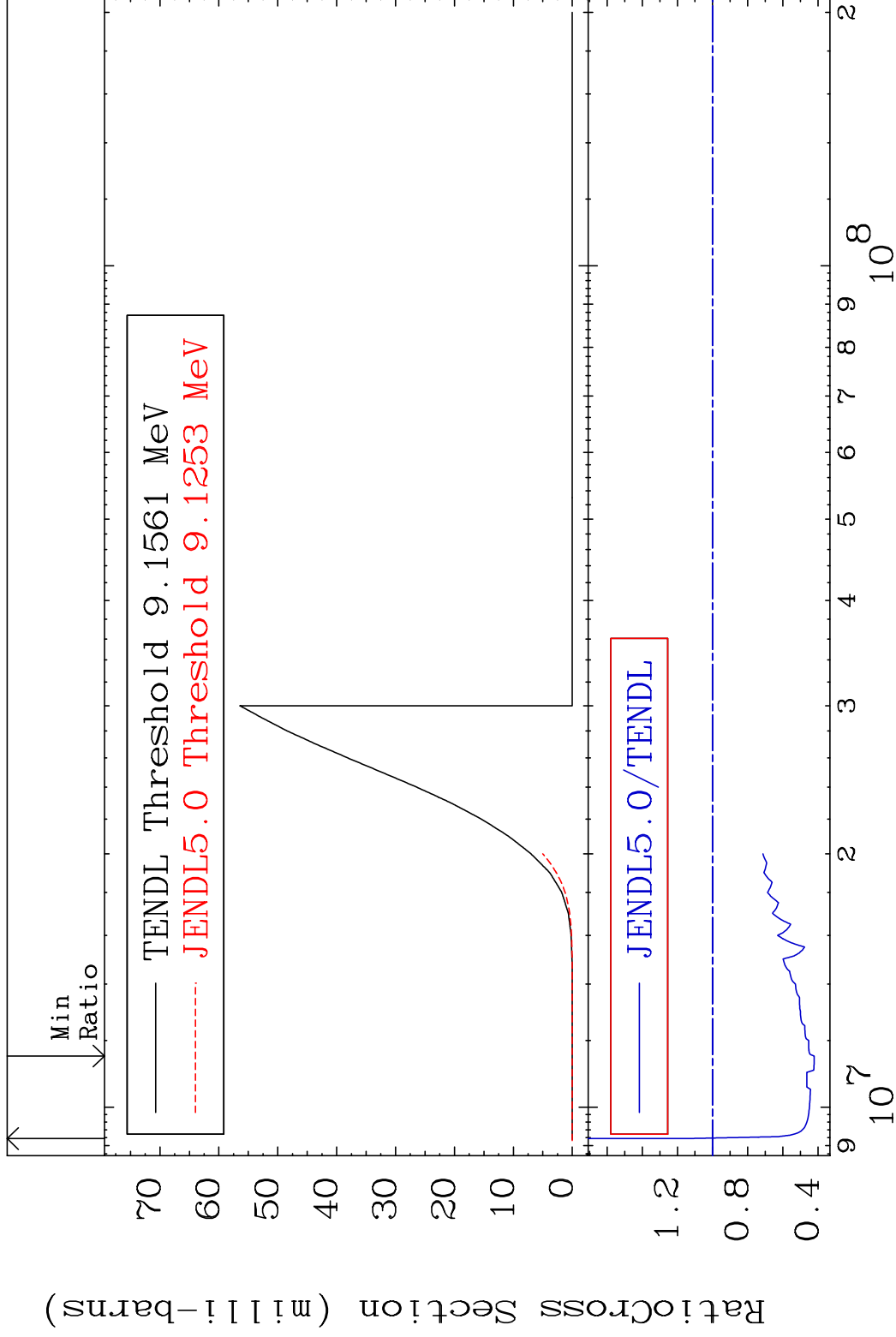


MAT 6255

(n, n') p

62-Sm-154

Cross Section -57.79 To 16.45 %



7

Incident Energy (eV)

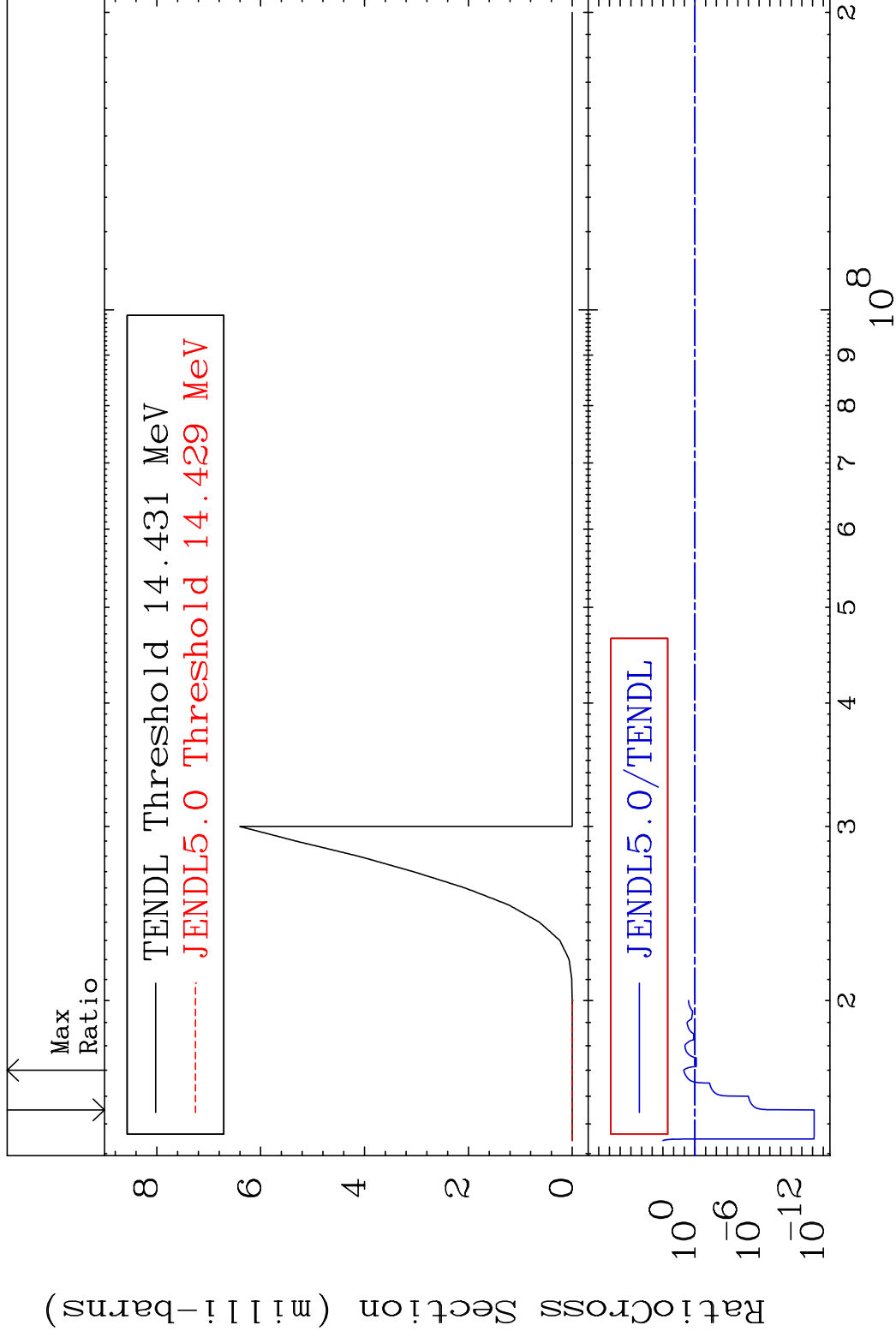
62-Sm-154

MAT 6255

(n, n') d

62-Sm-154

Cross Section -100.0 To 1050. %

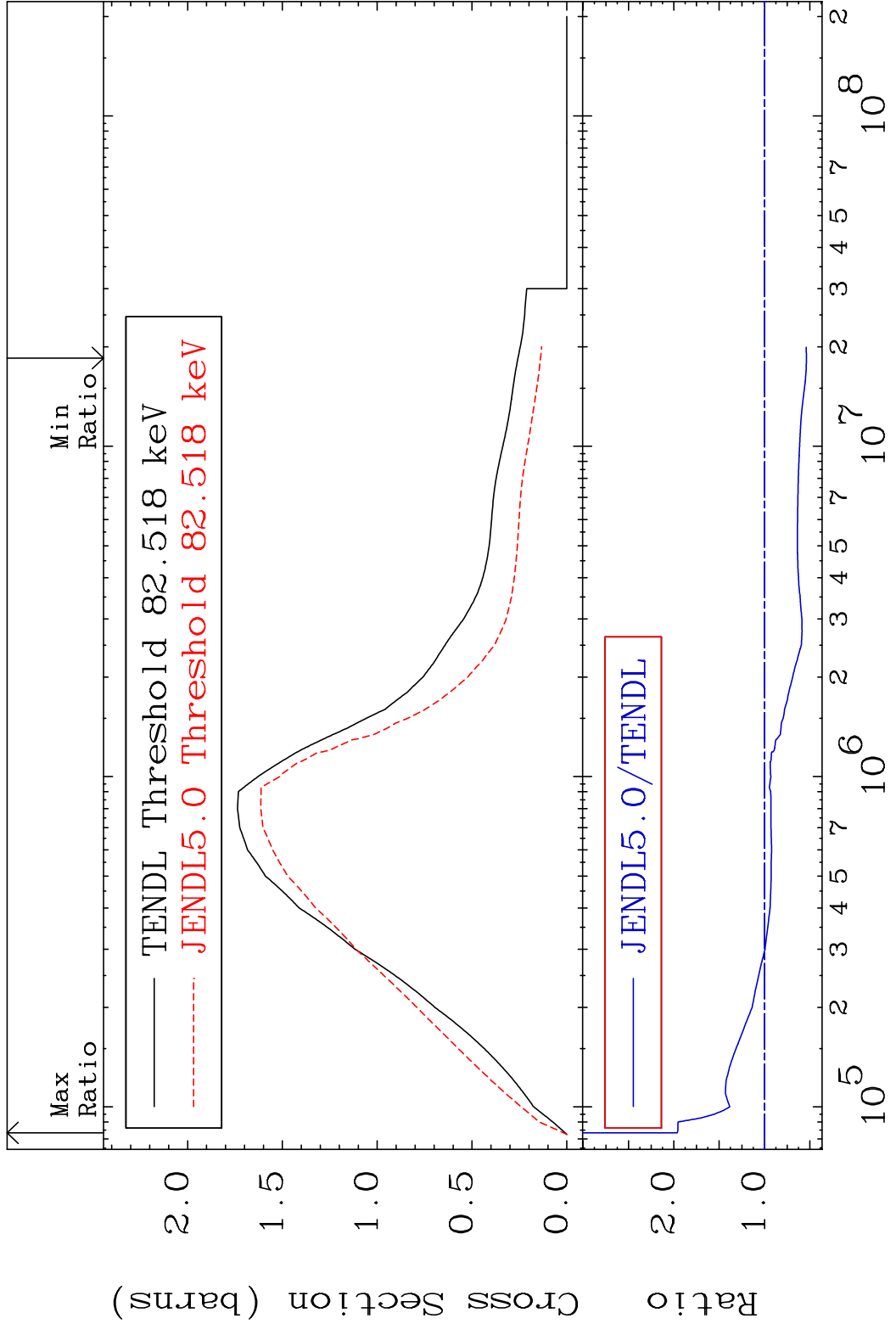


8

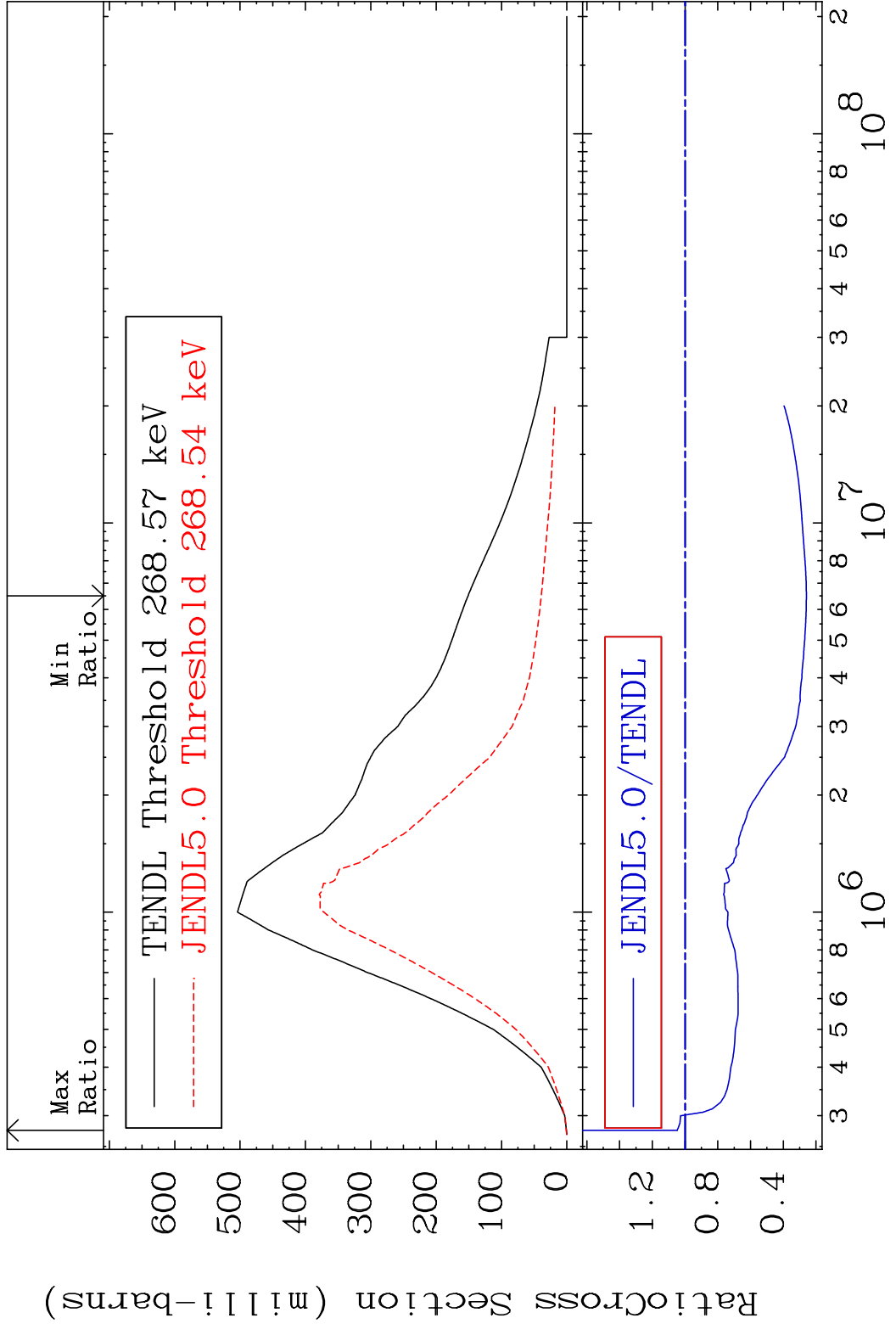
Incident Energy (eV)

62-Sm-154

MAT 6255 MT= 51 (n,n') Level 62-Sm-154
 Cross Section -46.21 To 96.30 %

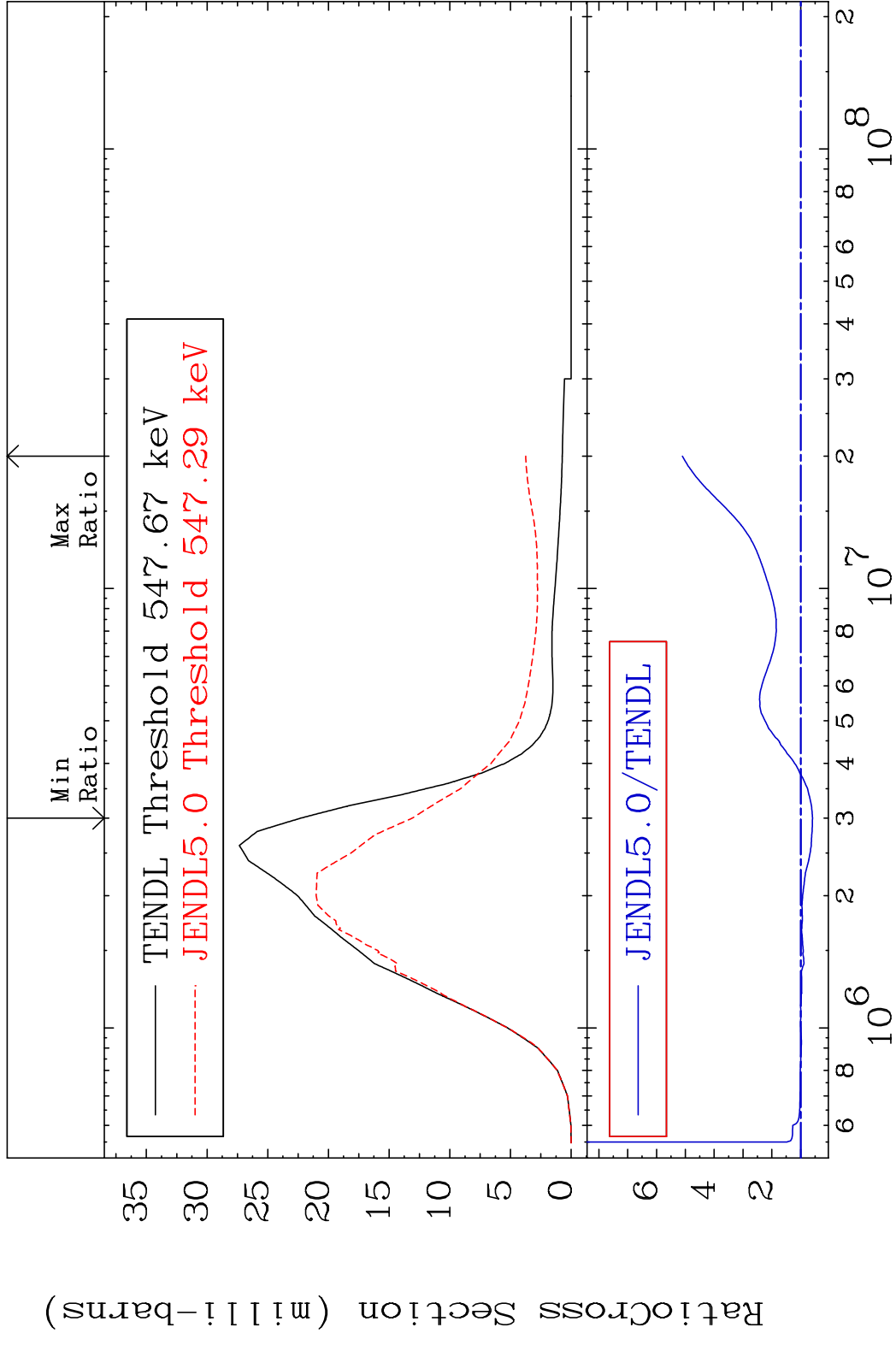


MAT 6255 MT= 52 (n, n') Level 62-Sm-154
 Cross Section -74.14 To 4.804 %

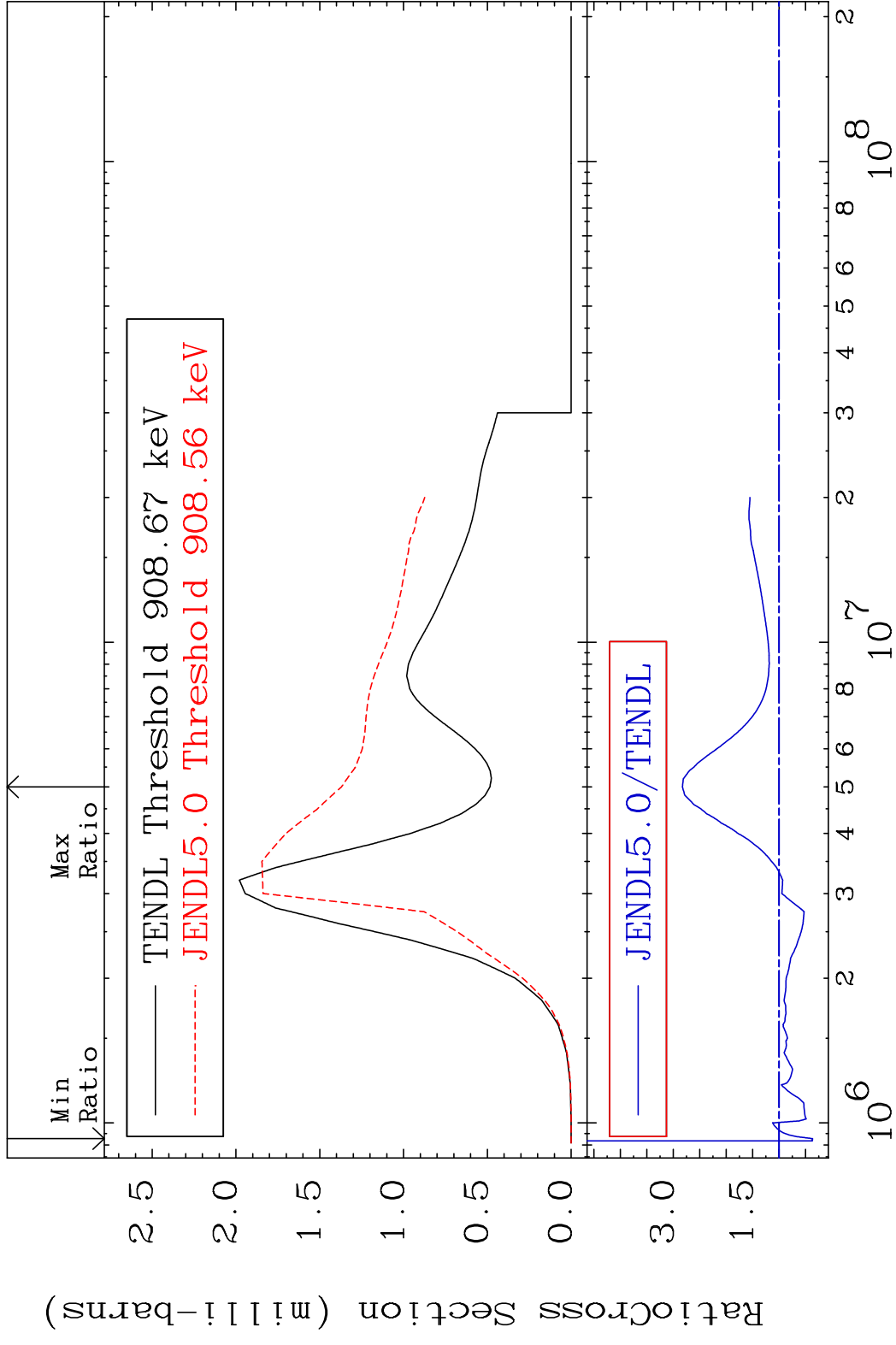


10 Incident Energy (eV) 62-Sm-154

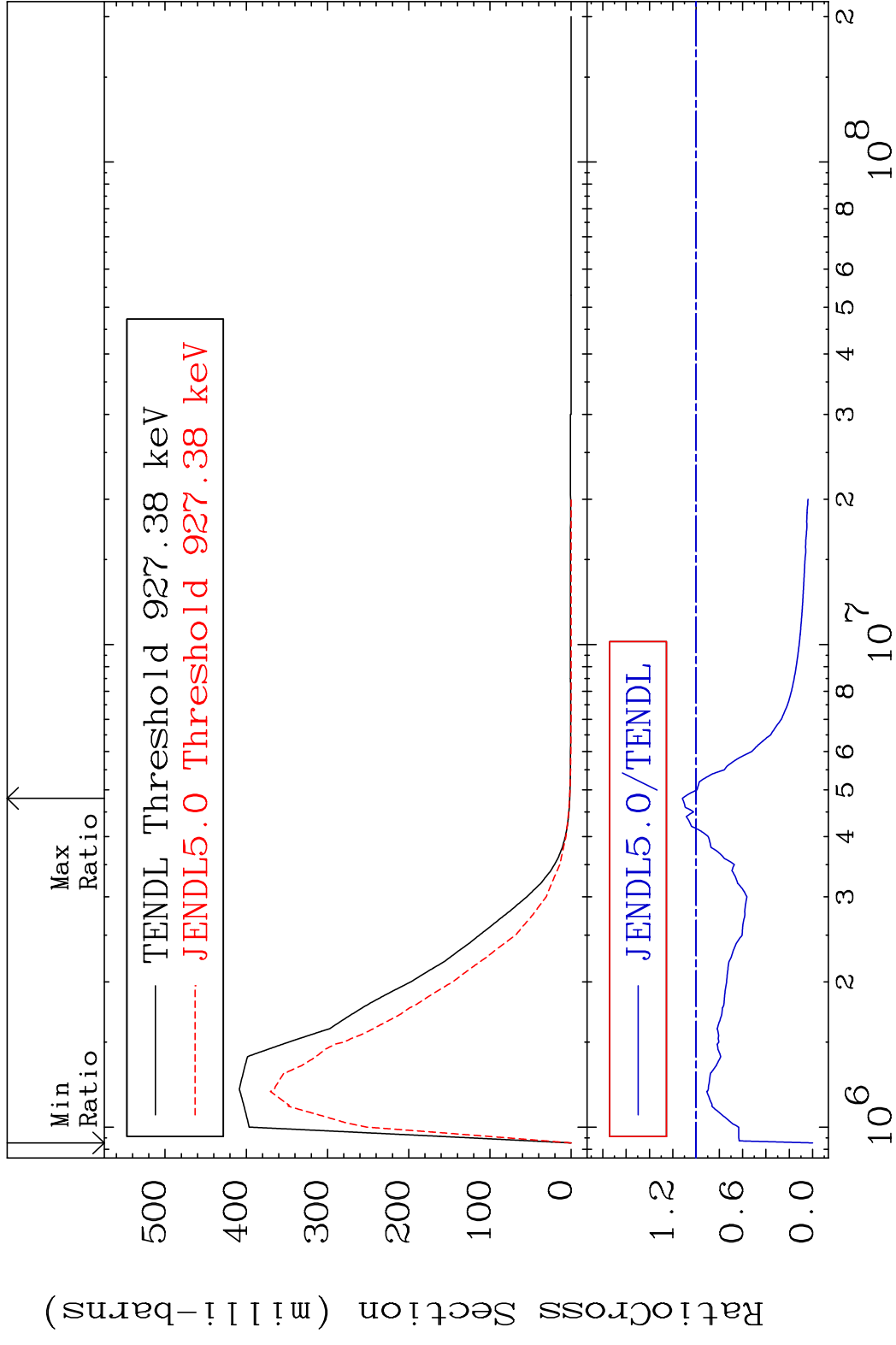
MAT 6255 MT= 53 (n, n') Level 62-Sm-154
 Cross Section -41.28 To 410.4 %



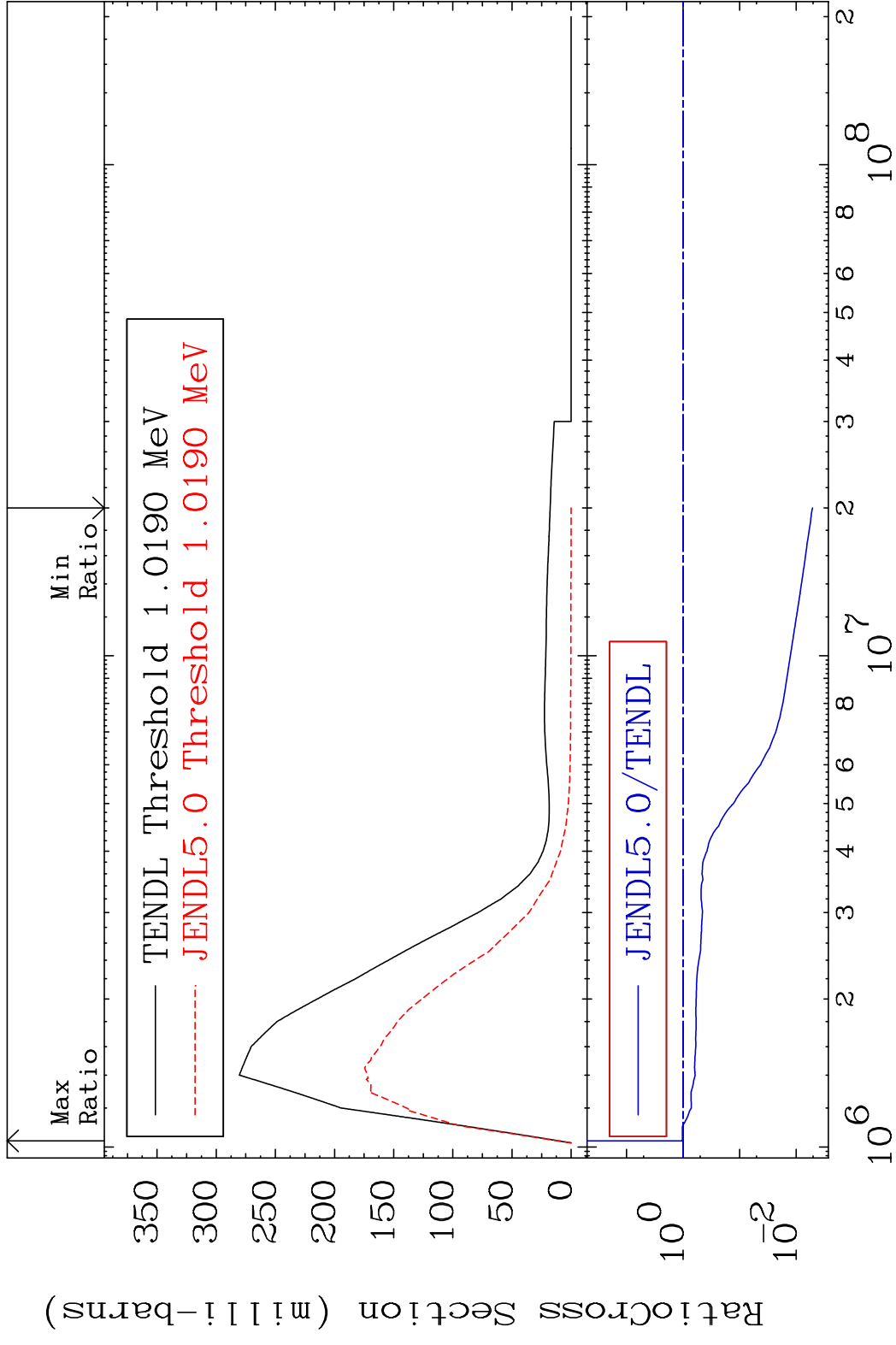
MAT 6255 MT= 54 (n, n') Level 62-Sm-154
 Cross Section -63.43 To 182.7 %



MAT 6255 MT= 55 (n,n') Level 62-Sm-154
 Cross Section -100.0 To 11.75 %

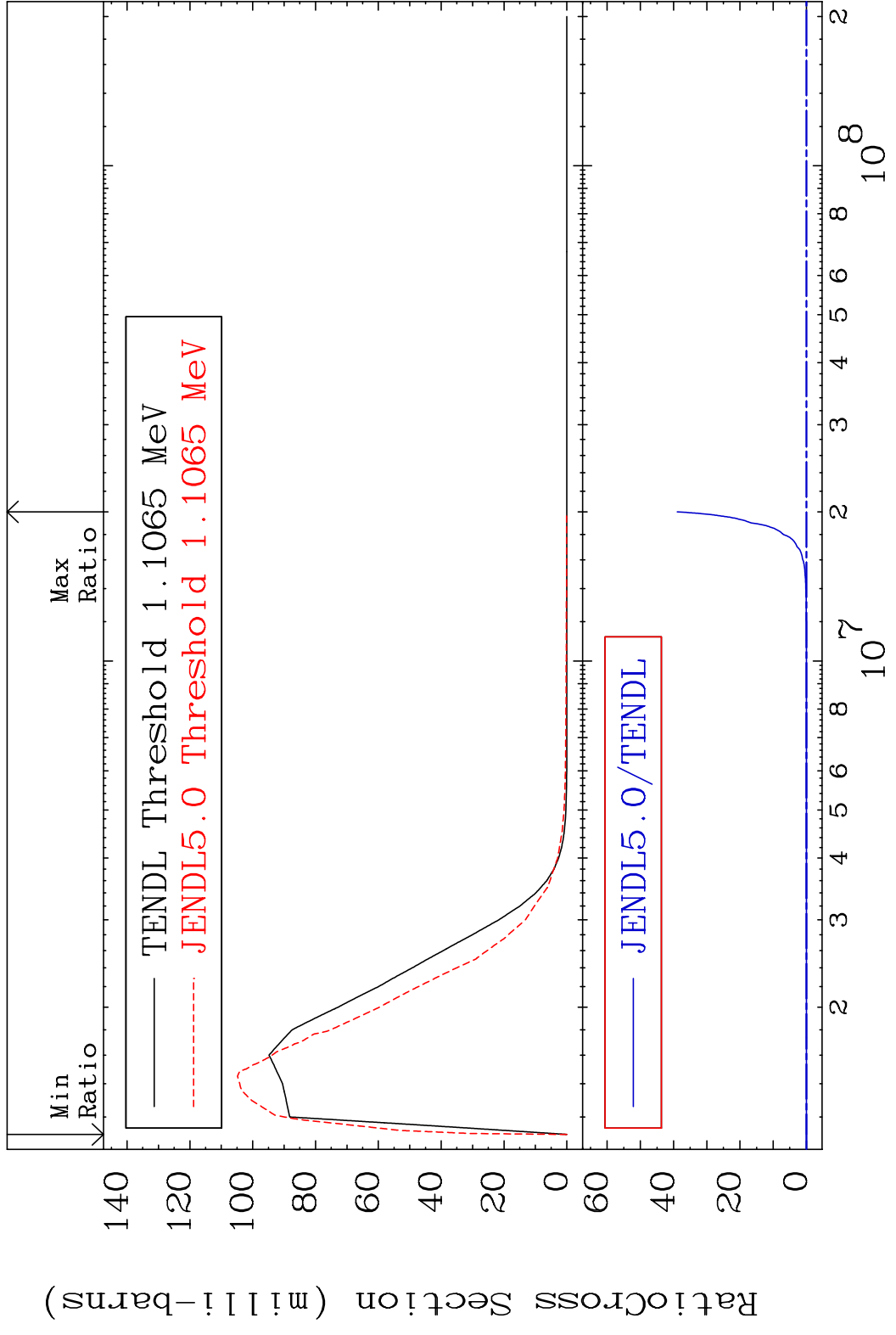


MAT 6255 MT= 56 (n, n') Level 62-Sm-154
 Cross Section -99.49 To 3.135 %

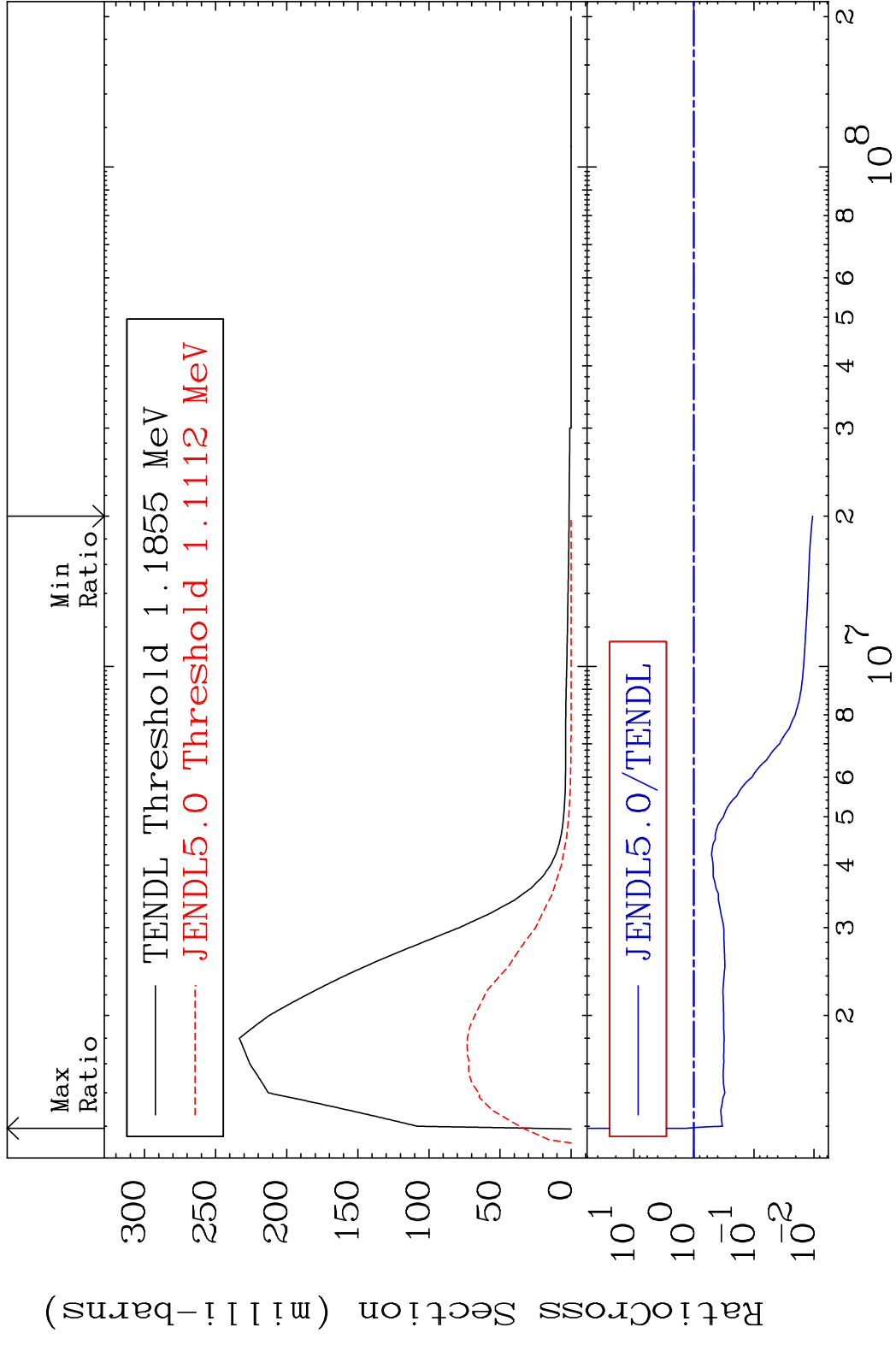


14 Incident Energy (eV) 62-Sm-154

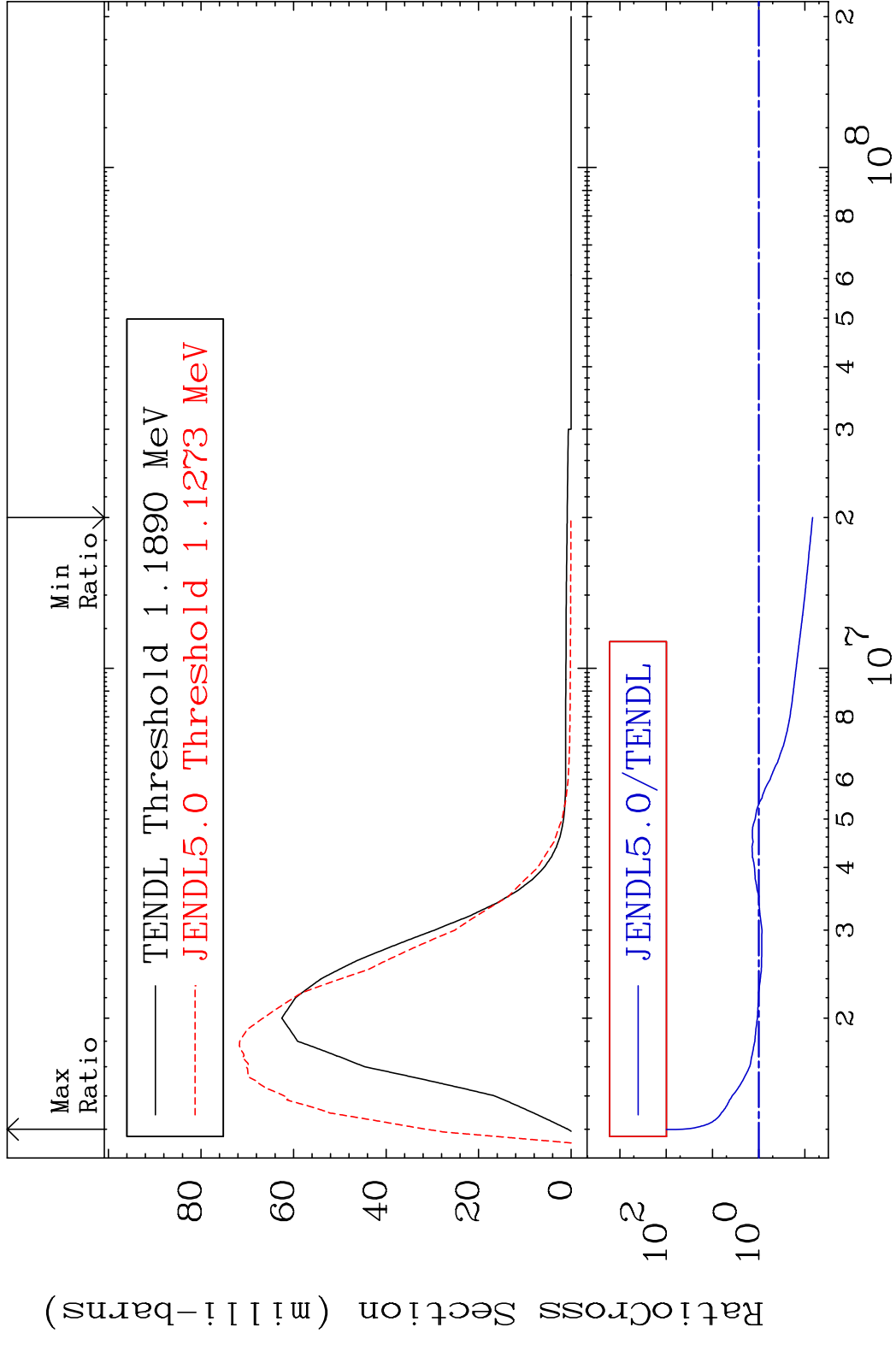
MAT 6255 MT= 57 (n, n') Level 62-Sm-154
 Cross Section -100.0 To 9999. %



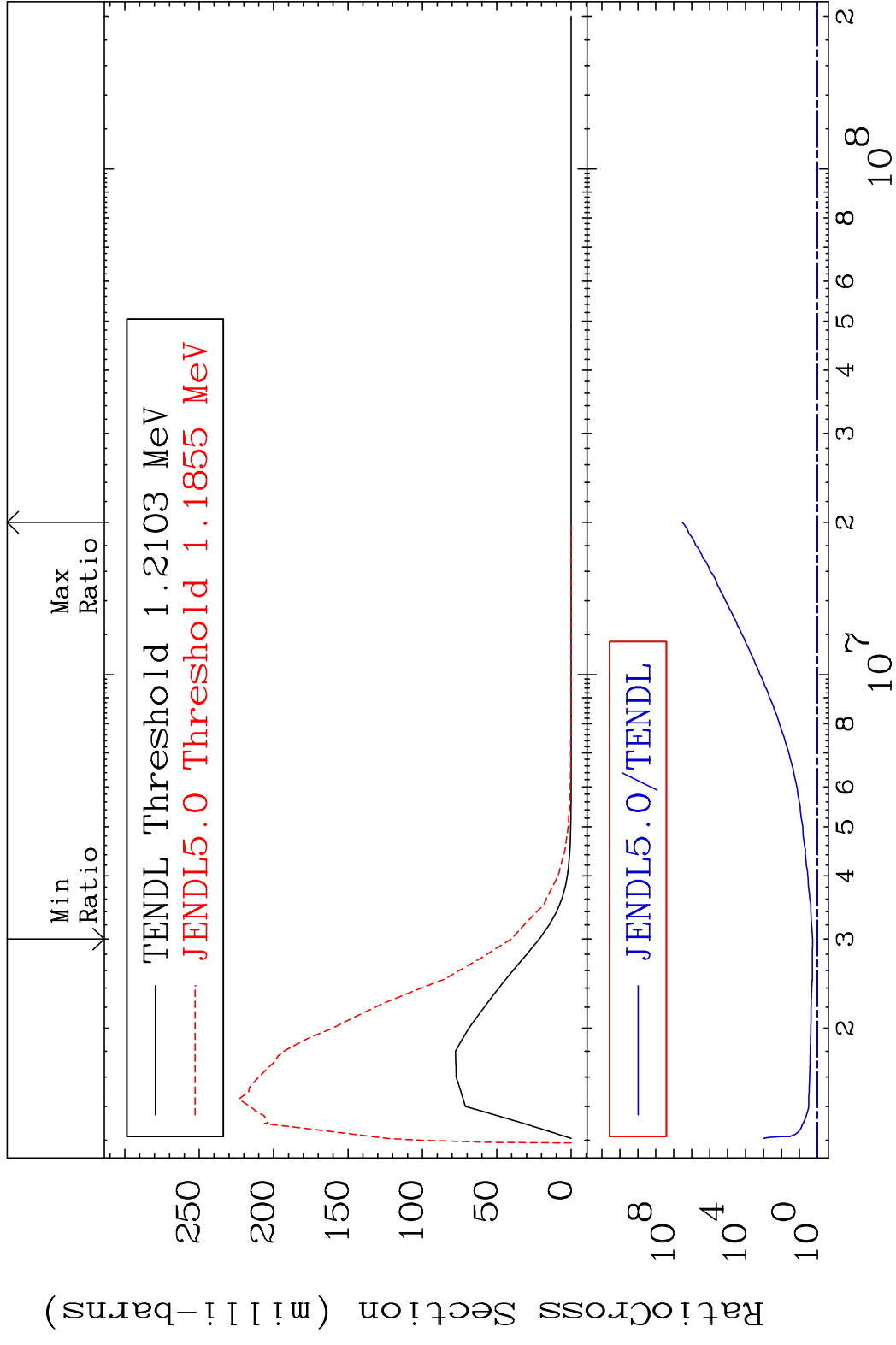
MAT 6255 MT= 58 (n, n') Level 62-Sm-154
 Cross Section -98.95 To 55.69 %



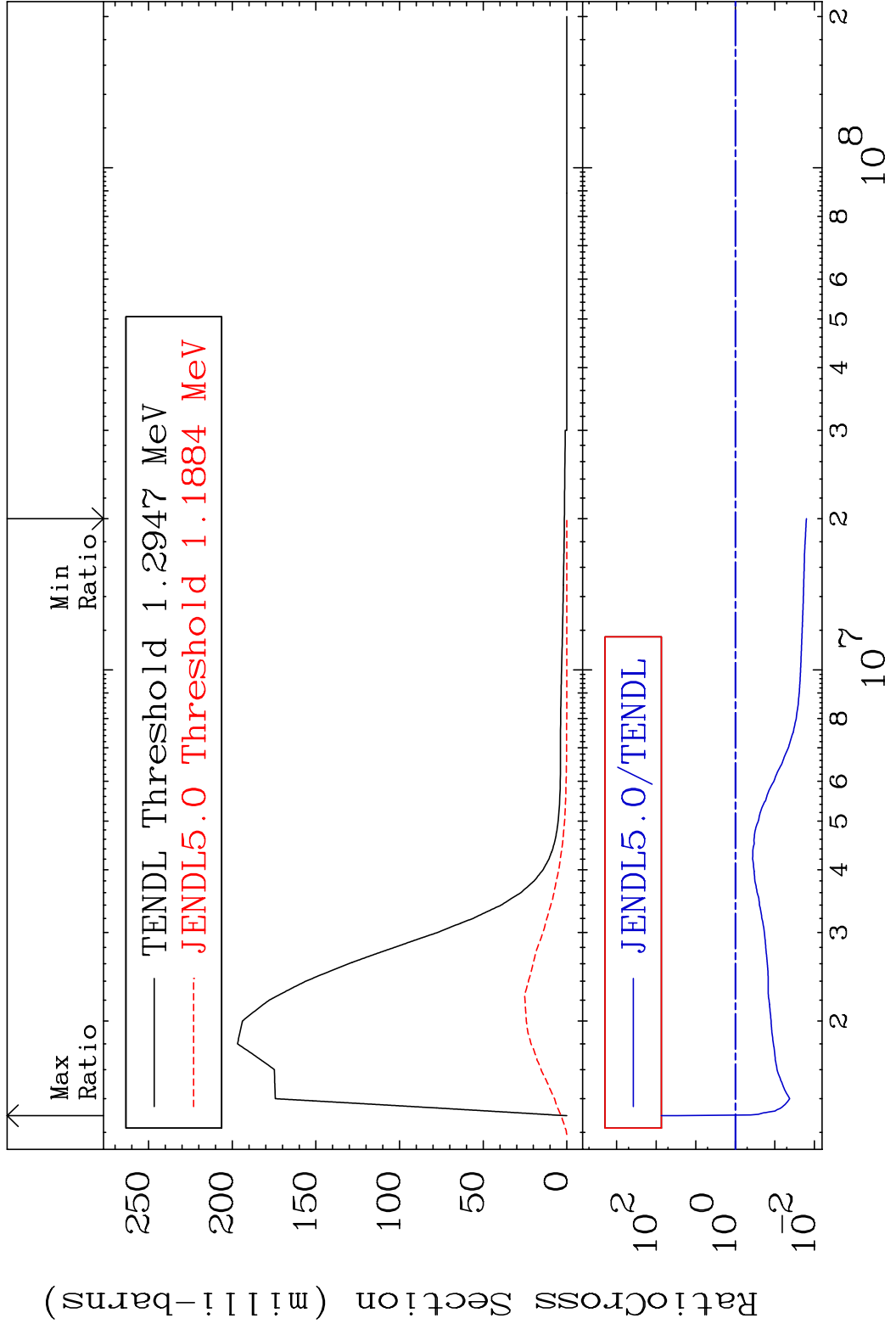
MAT 6255 MT= 59 (n, n') Level 62-Sm-154
 Cross Section -93.15 To 4363. %



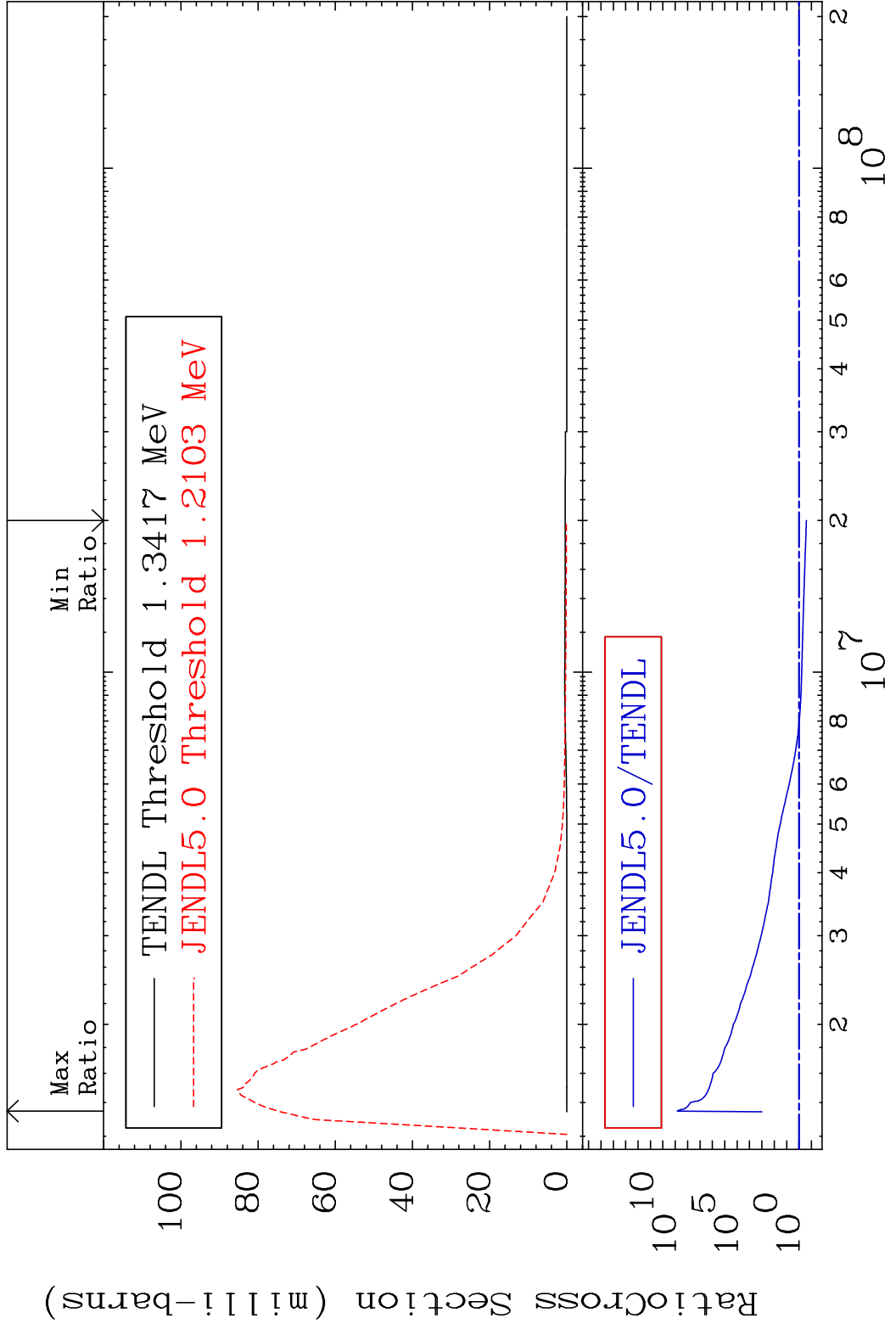
MAT 6255 MT= 60 (n, n') Level 62-Sm-154
 Cross Section 87.39 To 9999. %



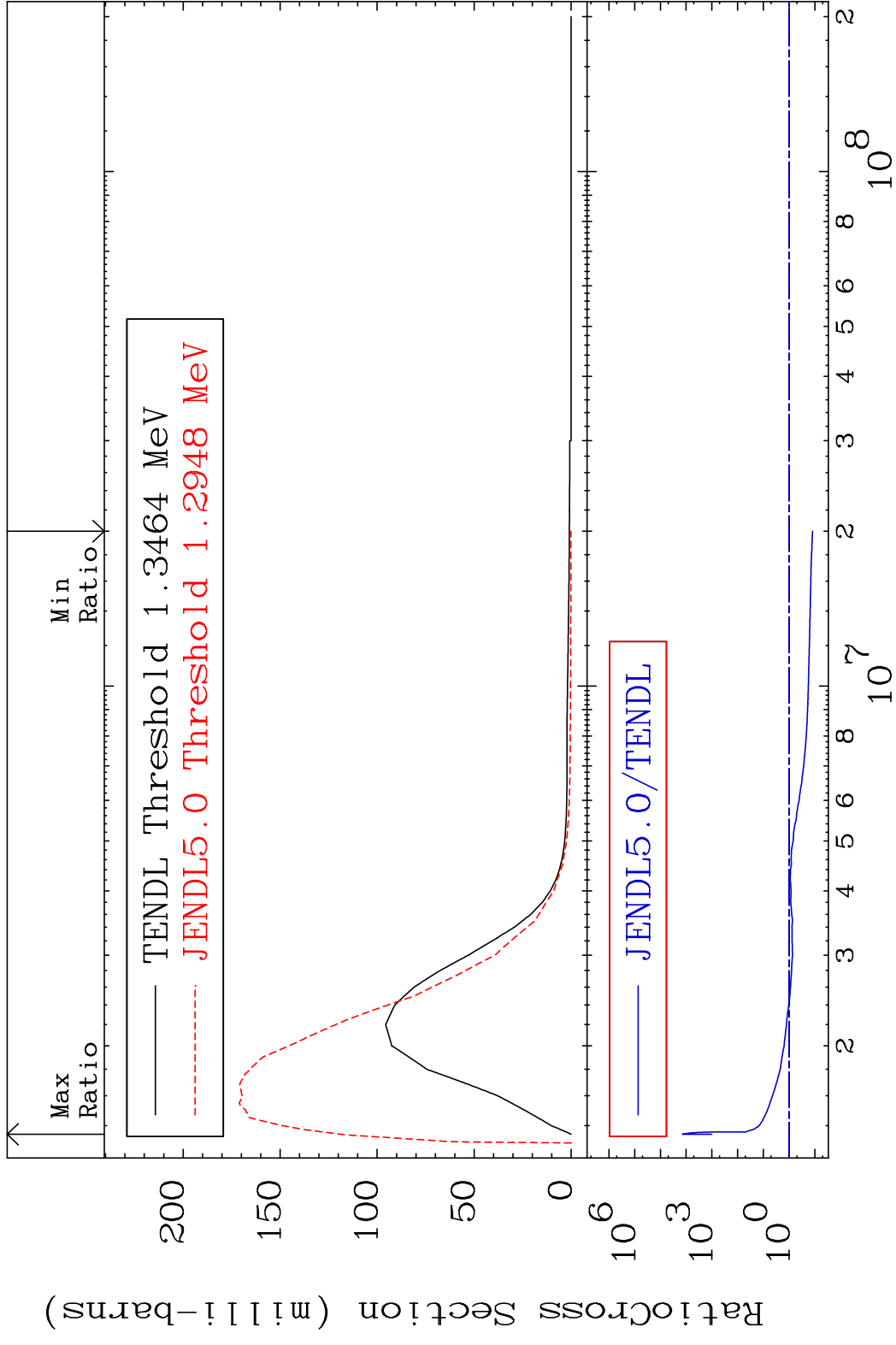
MAT 6255 MT= 61 (n, n') Level 62-Sm-154
 Cross Section -98.40 To 2839. %



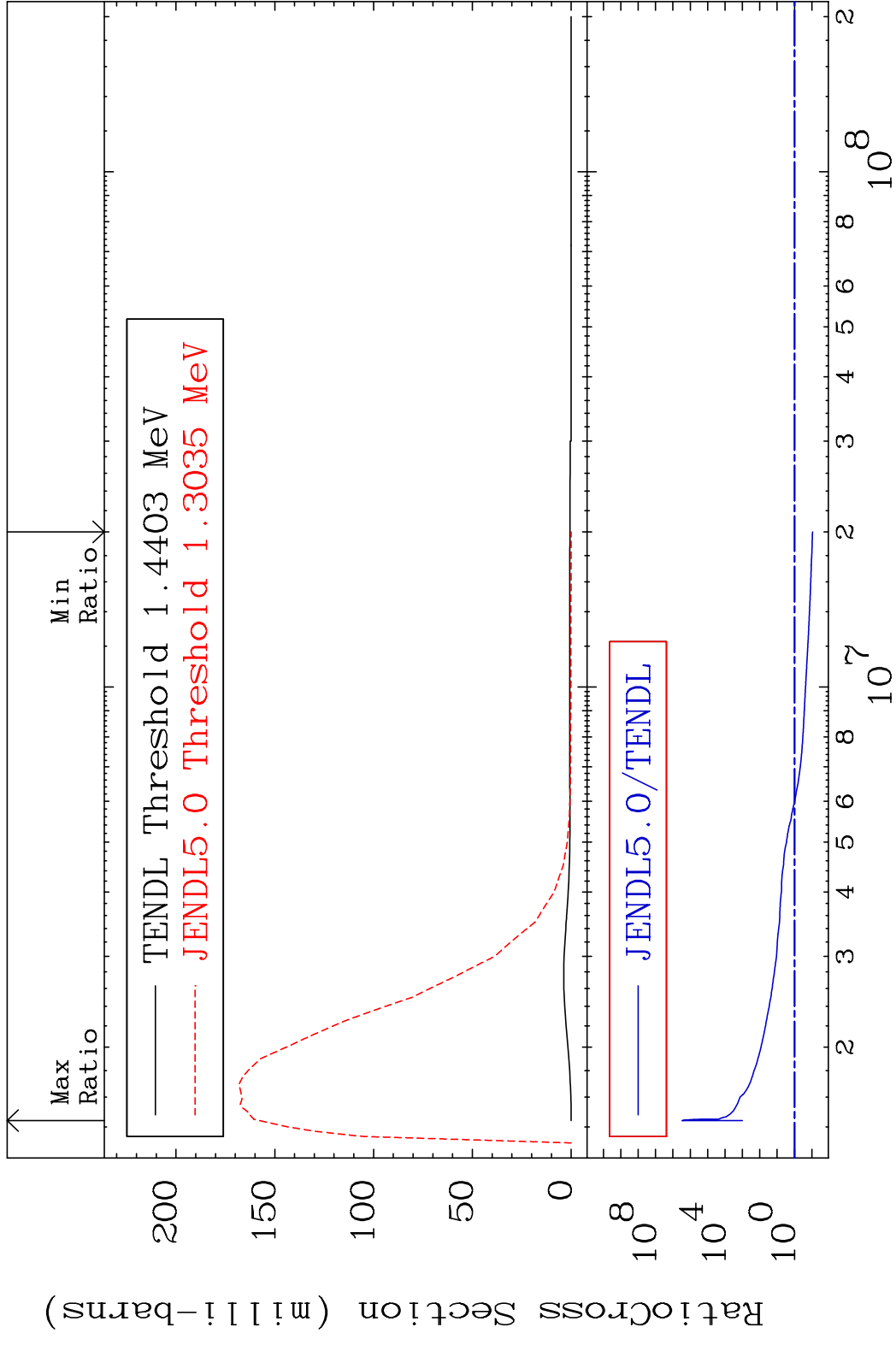
MAT 6255 MT= 62 (n, n') Level 62-Sm-154
 Cross Section -74.46 To 9999. %



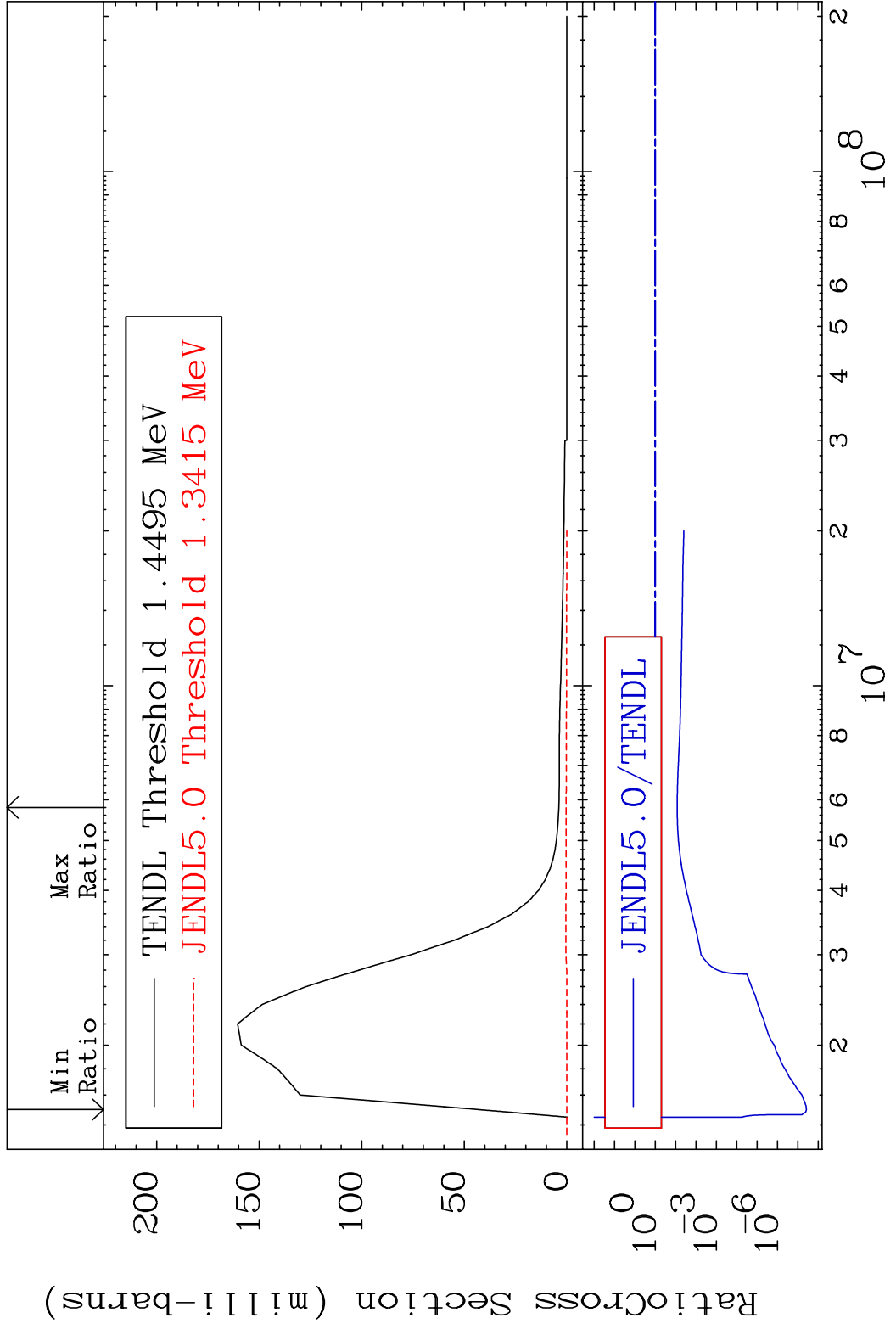
MAT 6255 MT= 63 (n, n') Level 62-Sm-154
 Cross Section -87.69 To 9999. %



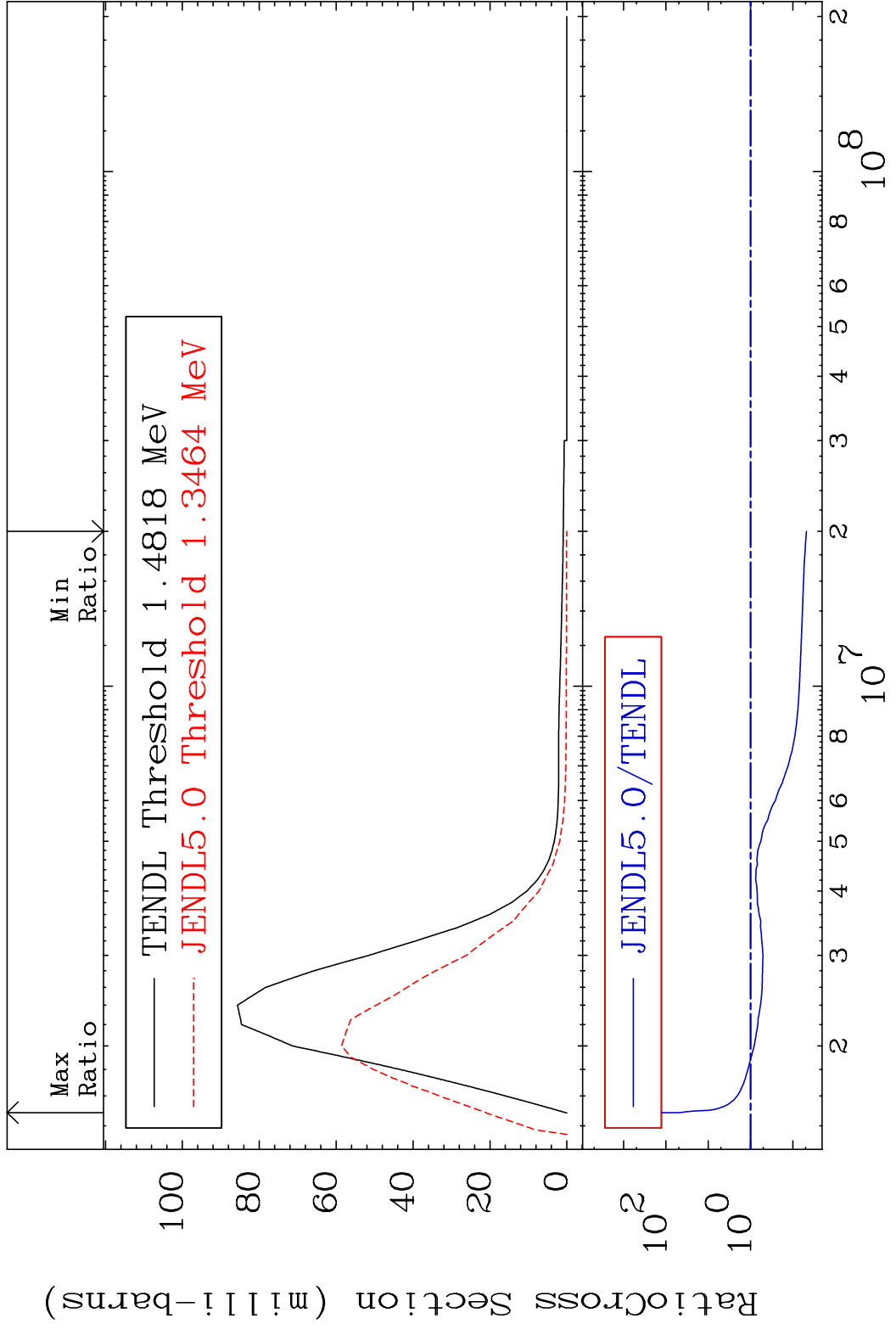
MAT 6255 MT= 64 (n, n') Level 62-Sm-154
 Cross Section -90.86 To 9999. %



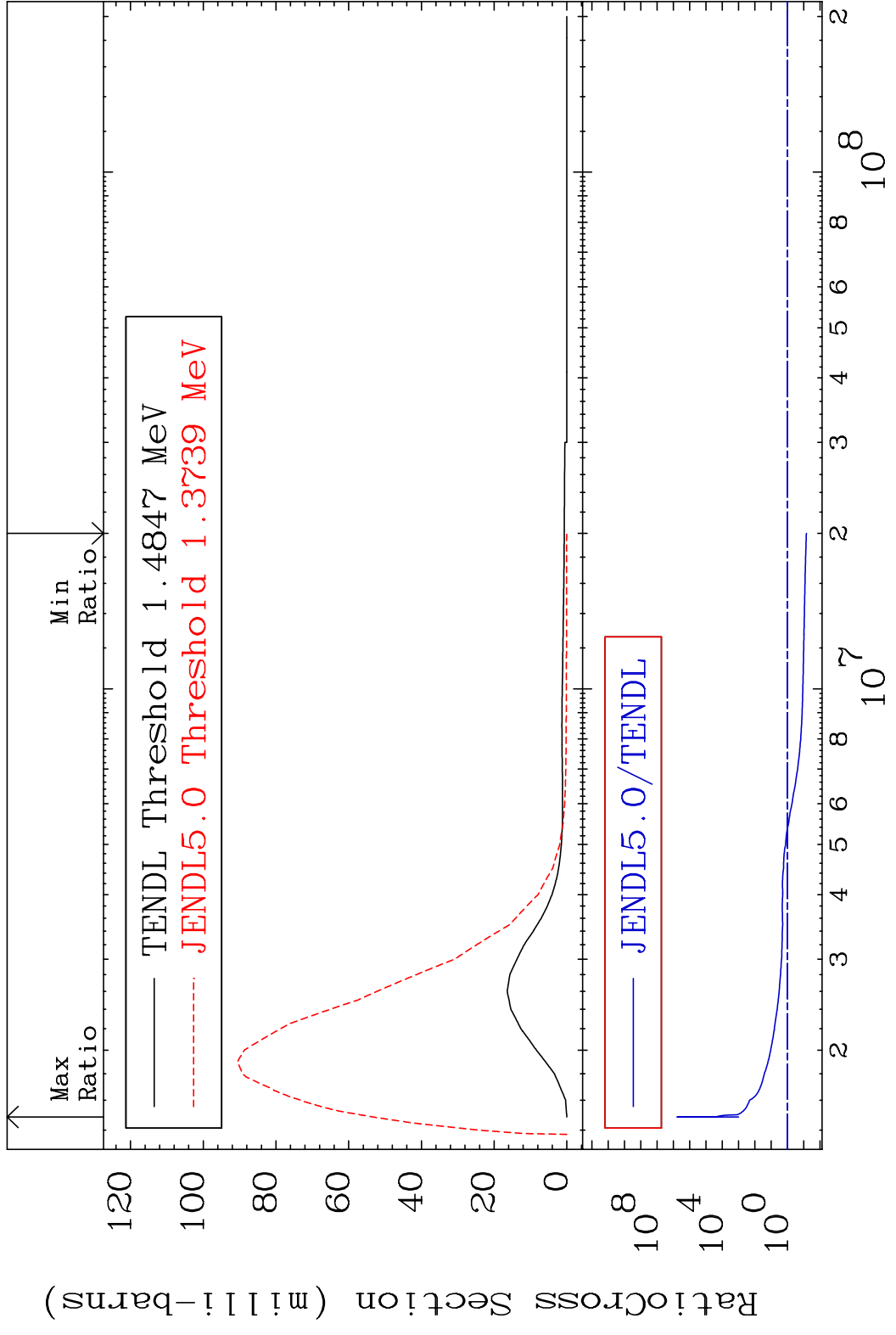
MAT 6255 MT= 65 (n,n') Level 62-Sm-154
 Cross Section -100.0 To -91.55%



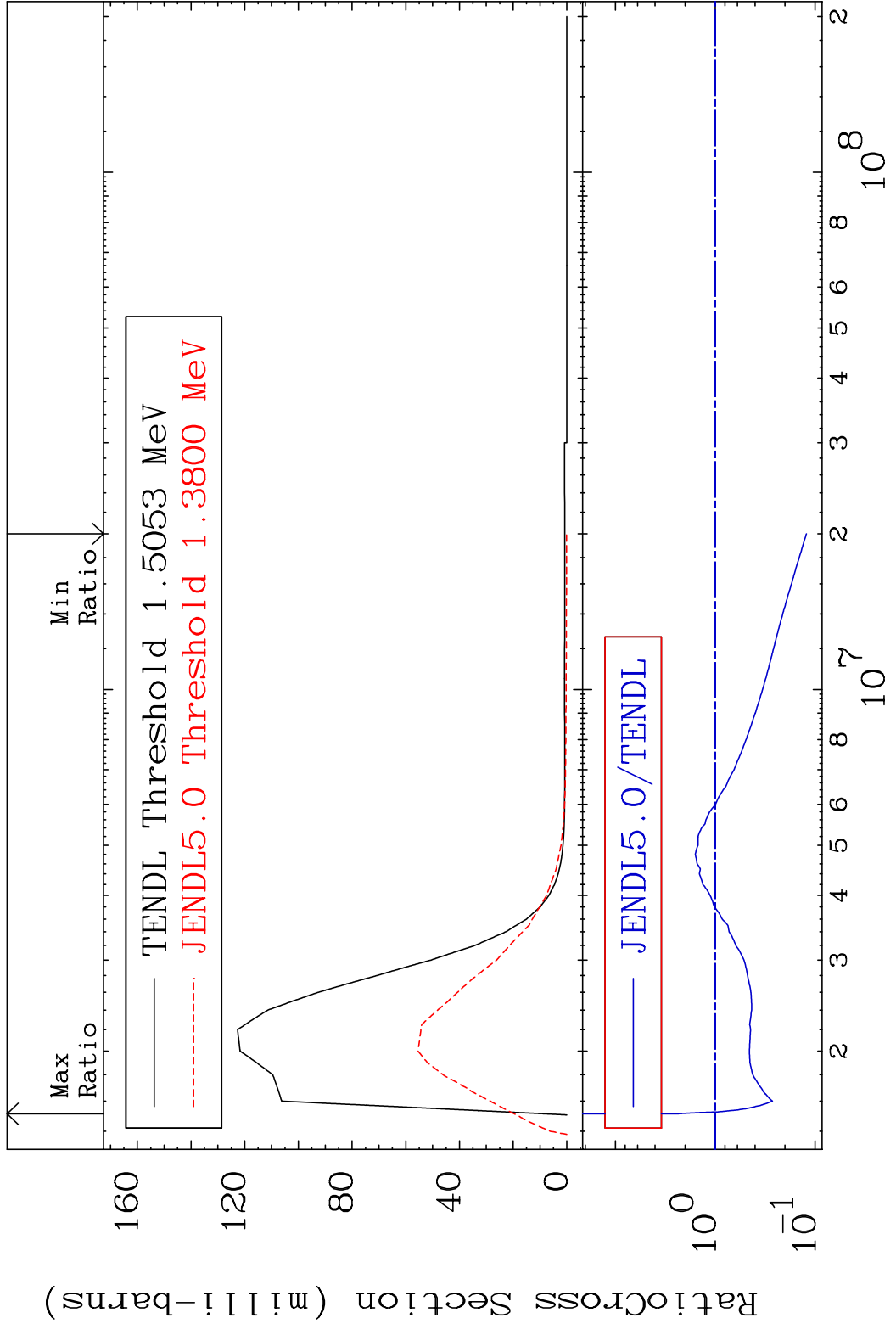
MAT 6255 MT= 66 (n, n') Level 62-Sm-154
 Cross Section -95.23 To 5328. %



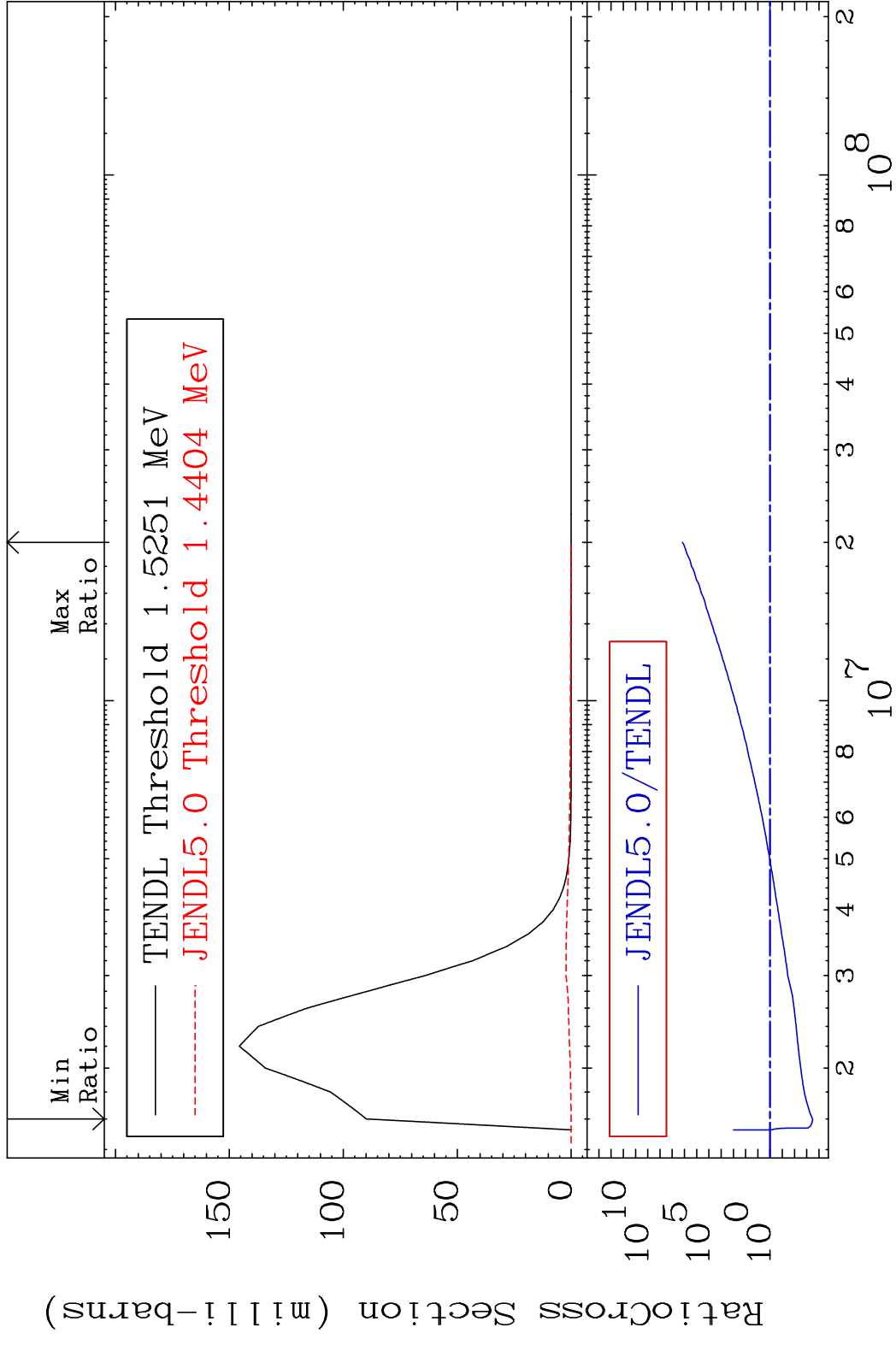
MAT 6255 MT= 67 (n, n') Level 62-Sm-154
 Cross Section -93.24 To 9999. %



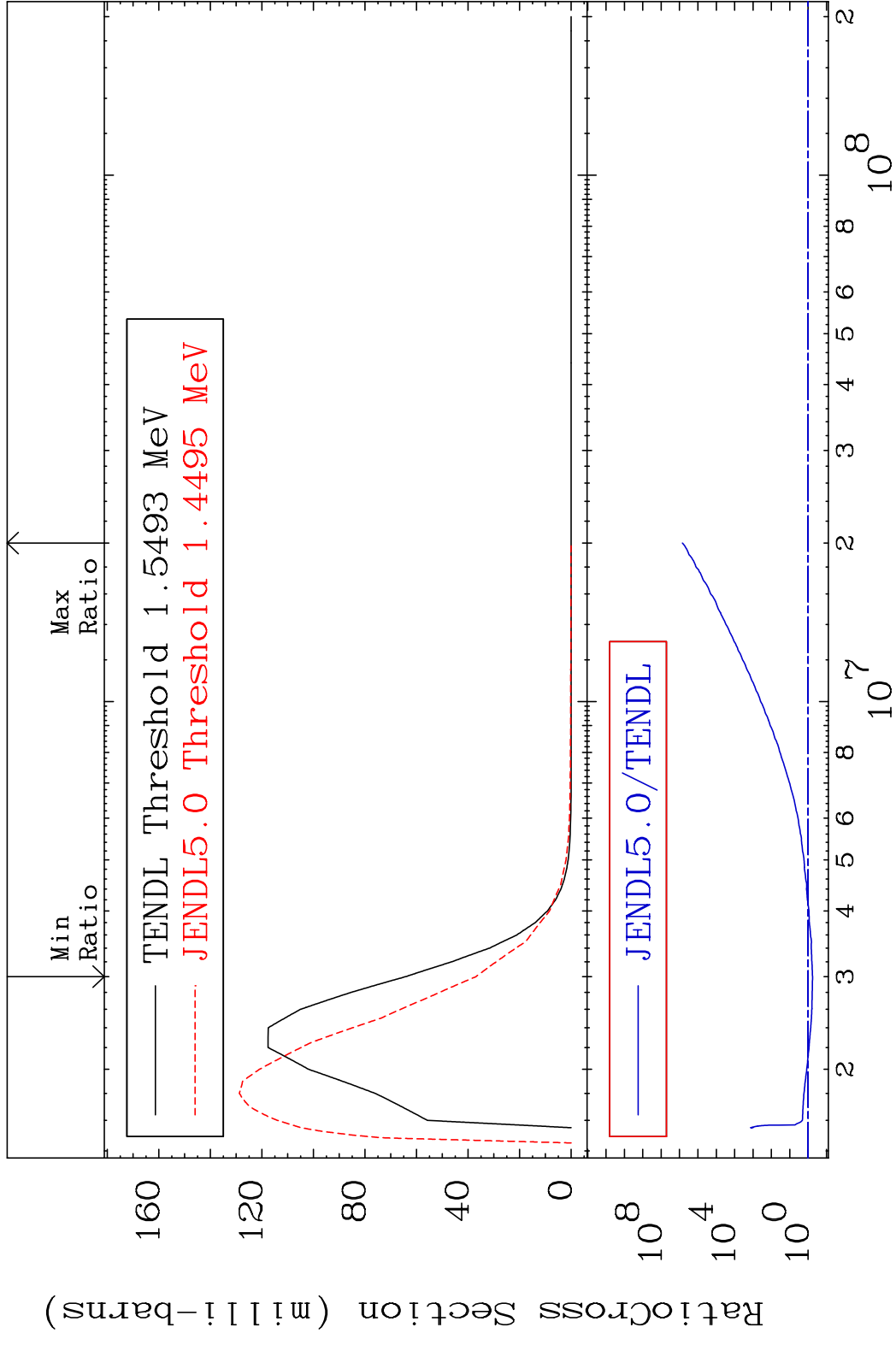
MAT 6255 MT= 68 (n, n') Level 62-Sm-154
 Cross Section -87.78 To 140.6 %



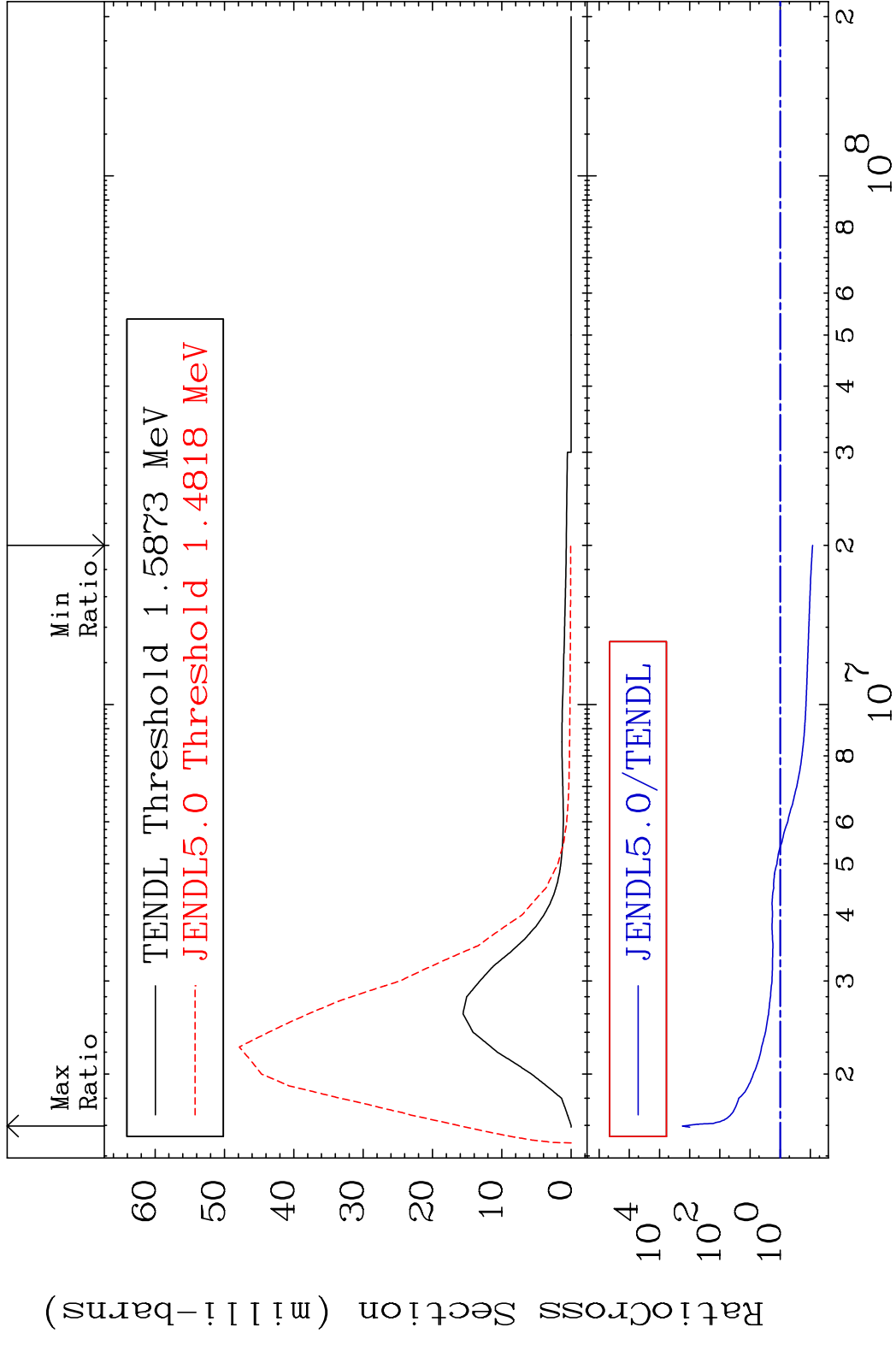
MAT 6255 MT= 69 (n, n') Level 62-Sm-154
 Cross Section -99.97 To 9999. %



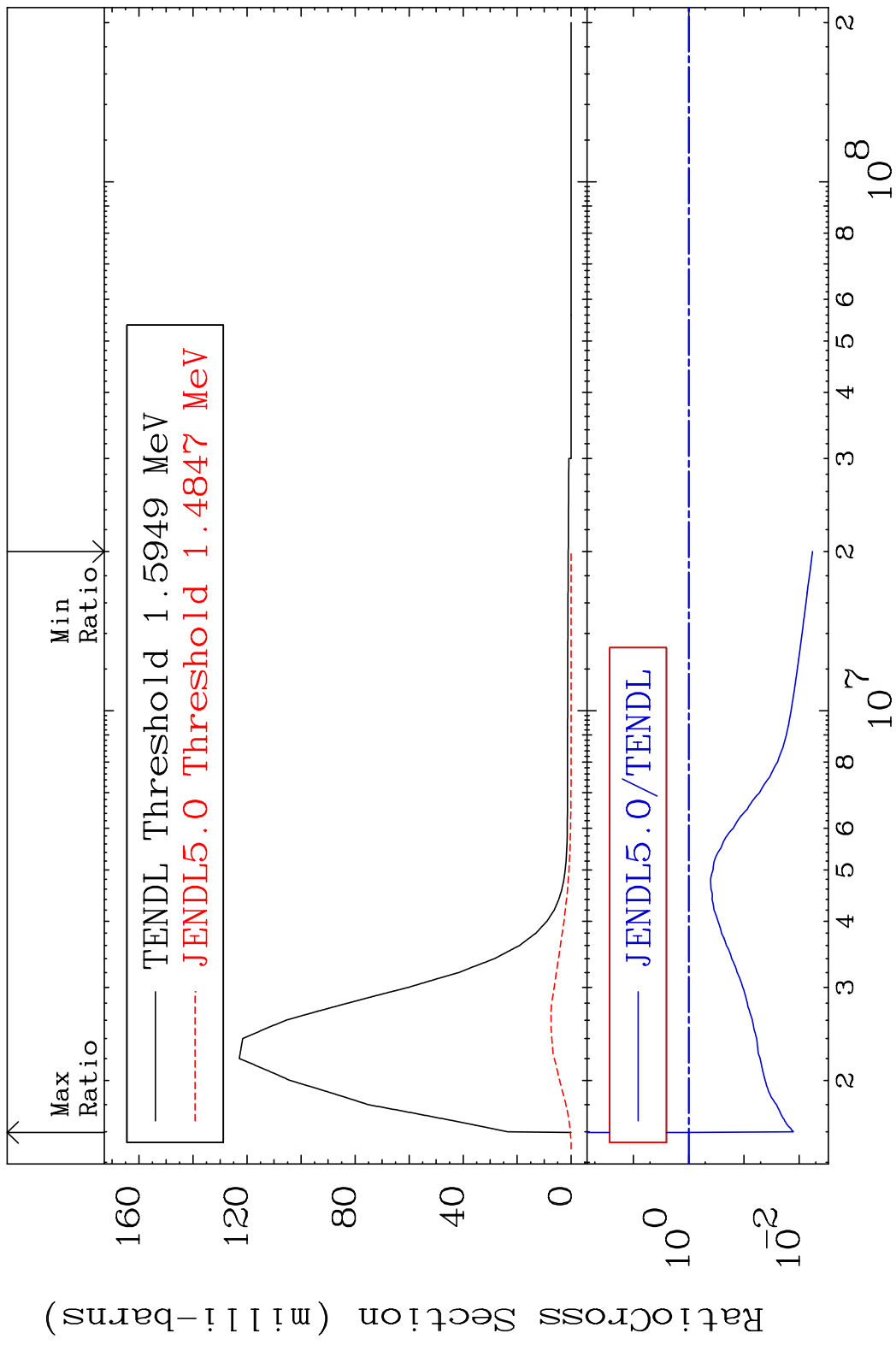
MAT 6255 MT= 70 (n, n') Level 62-Sm-154
 Cross Section -42.49 To 9999. %



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 30.13 %

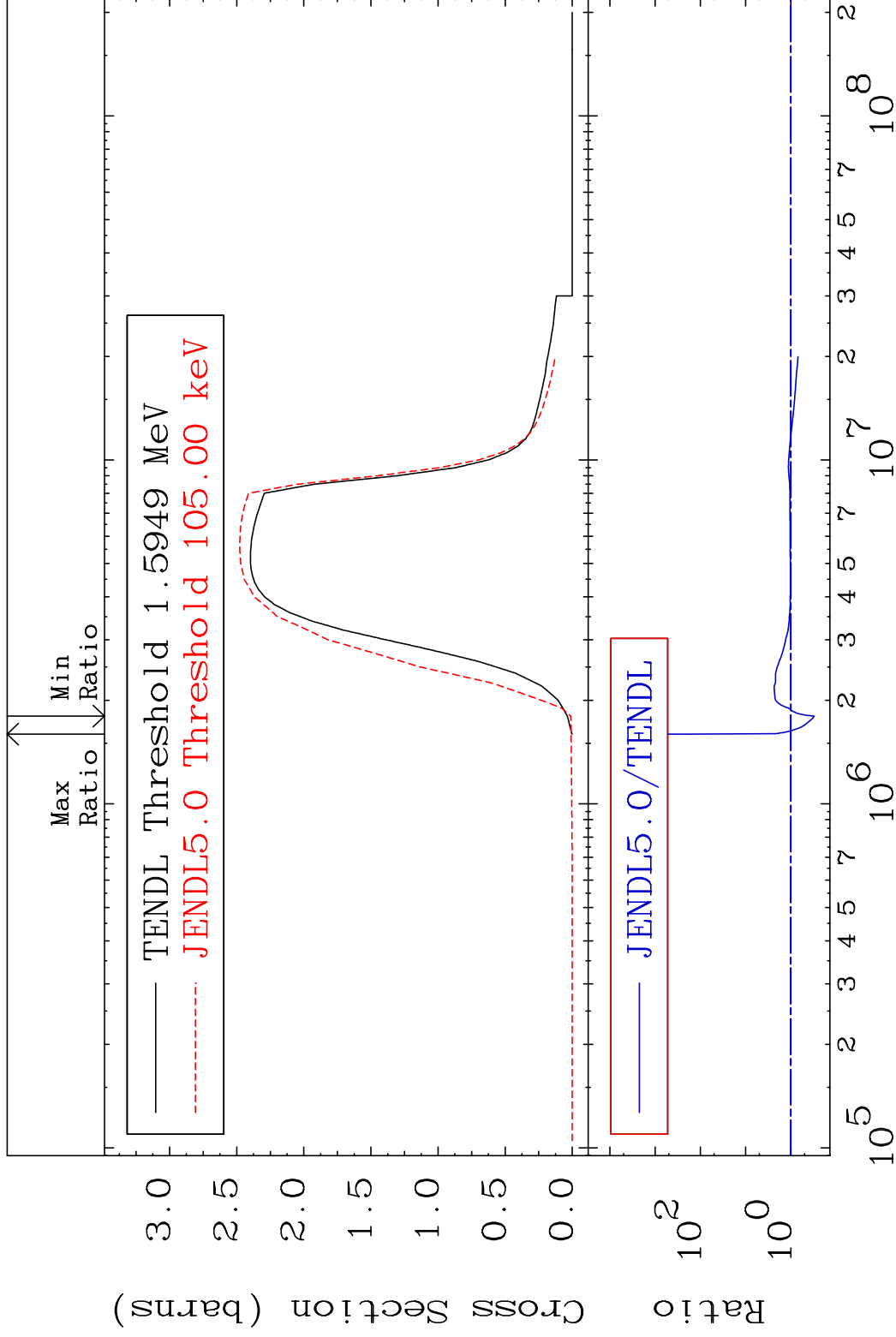


MAT 6255

(n,n') Continuum

62-Sm-154

Cross Section -69.33 To 9999. %



31

Incident Energy (eV)

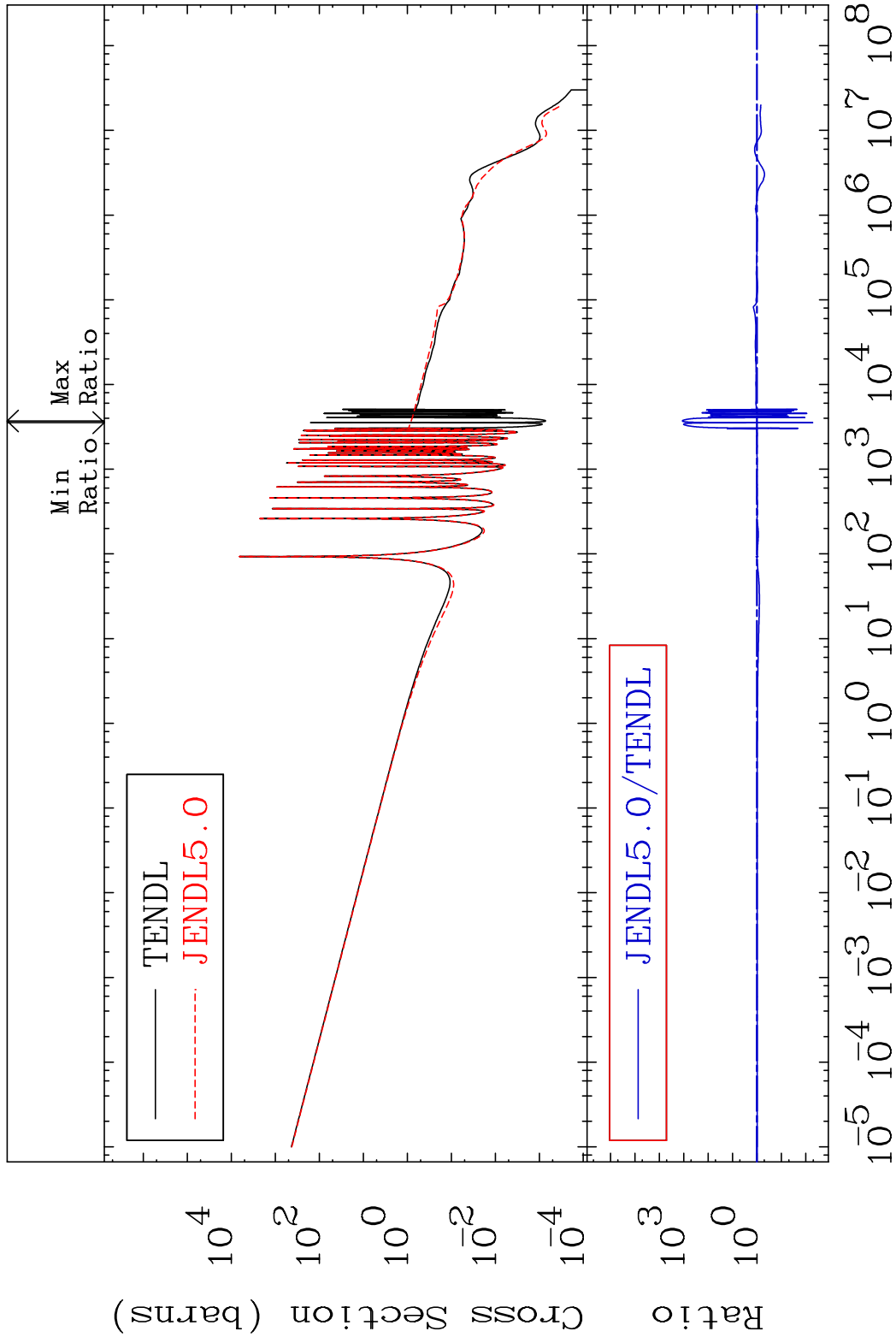
62-Sm-154

MAT 6255

(n, γ)

62-Sm-154

Cross Section -99.47 To 9999. %



32

Incident Energy (eV)

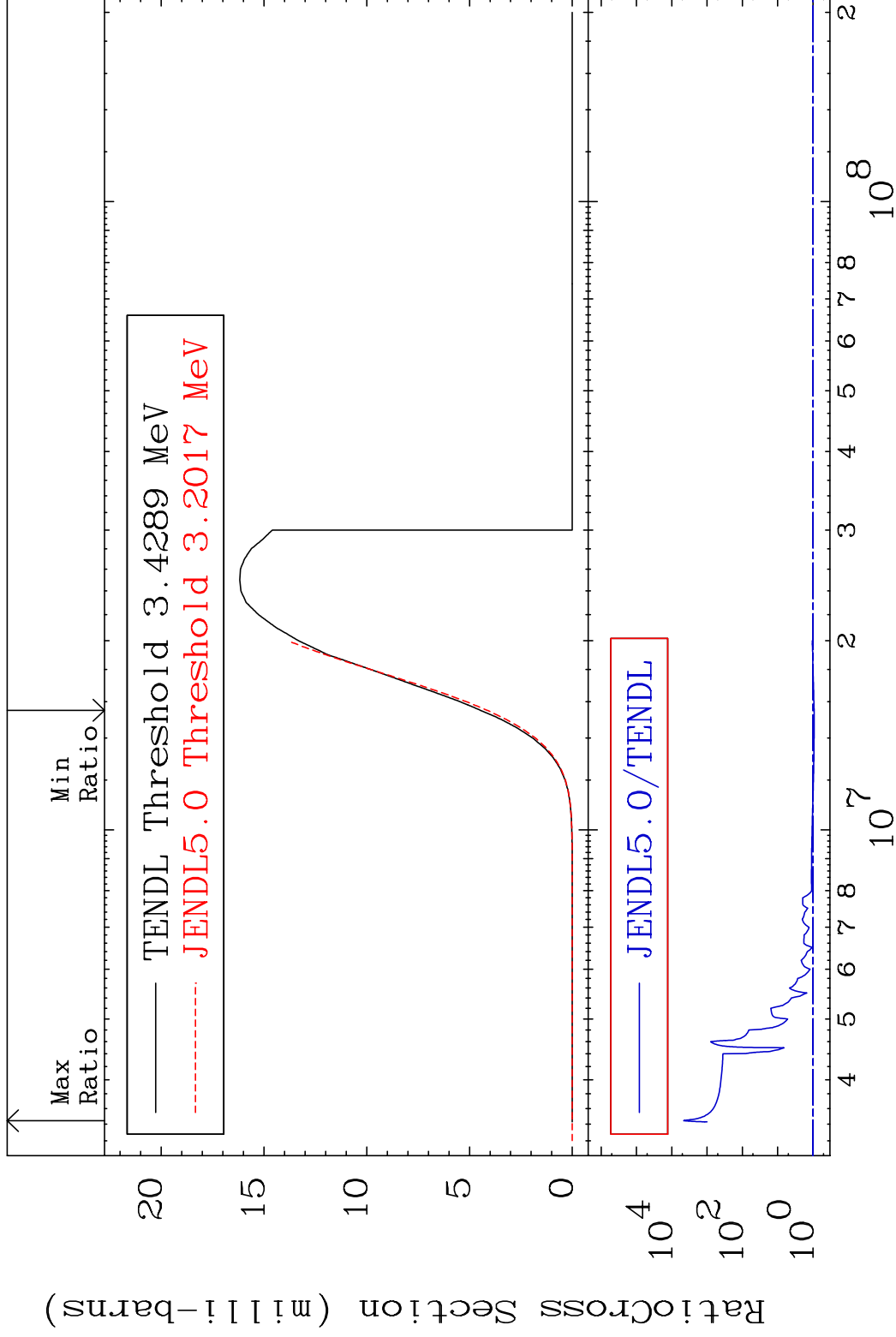
62-Sm-154

MAT 6255

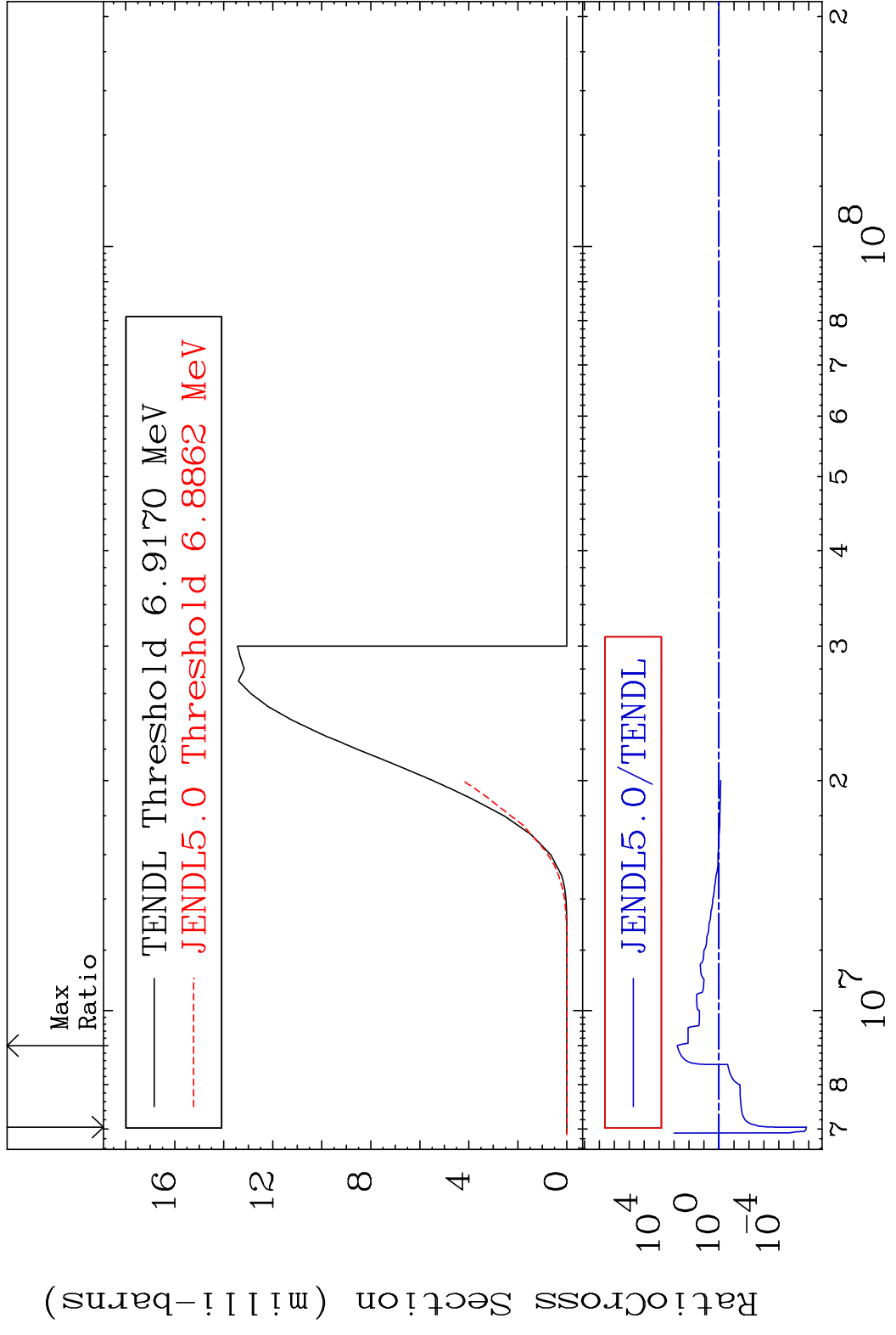
(n, p)

62-Sm-154

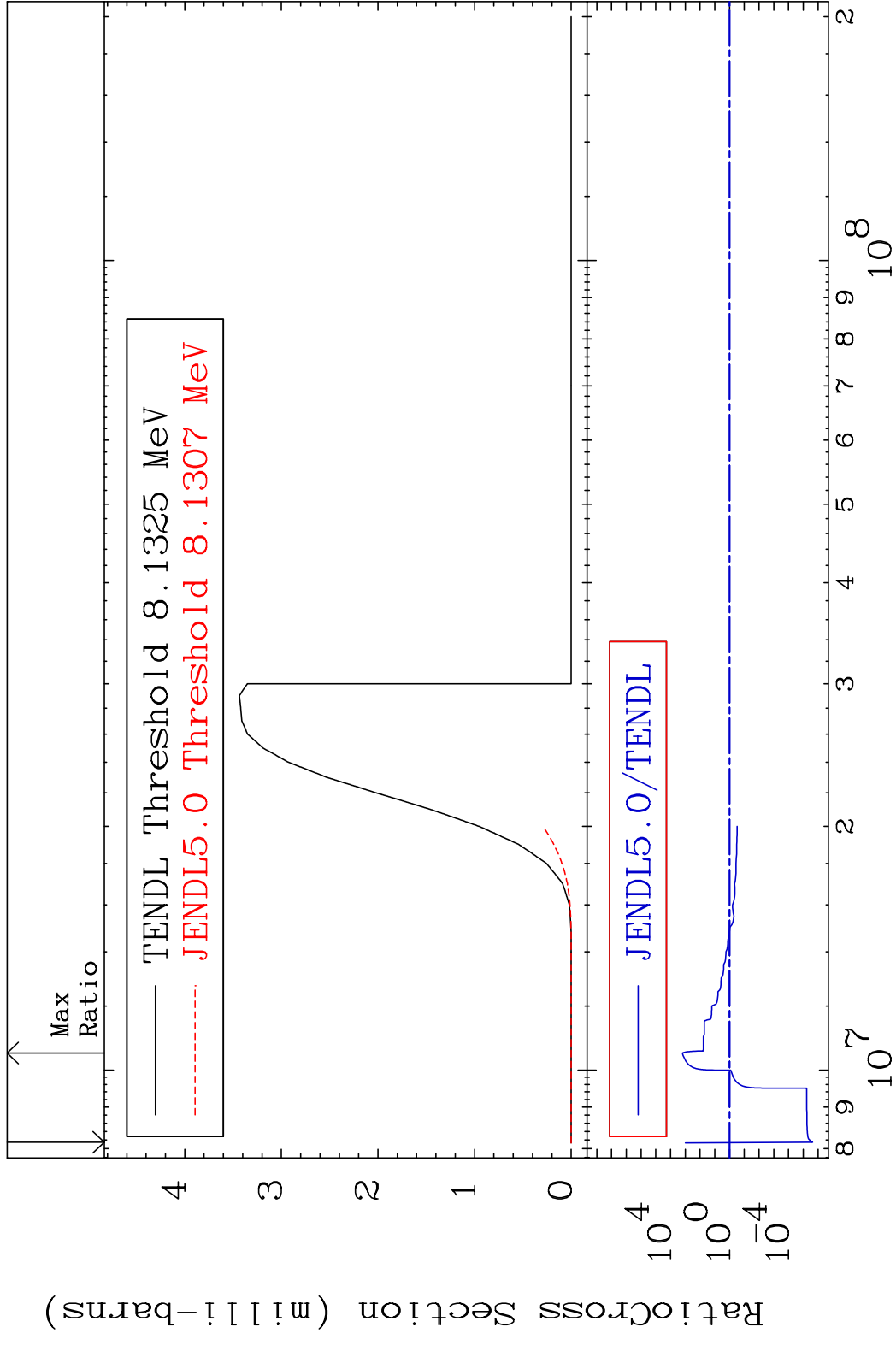
Cross Section -7.298 To 9999. %



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



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



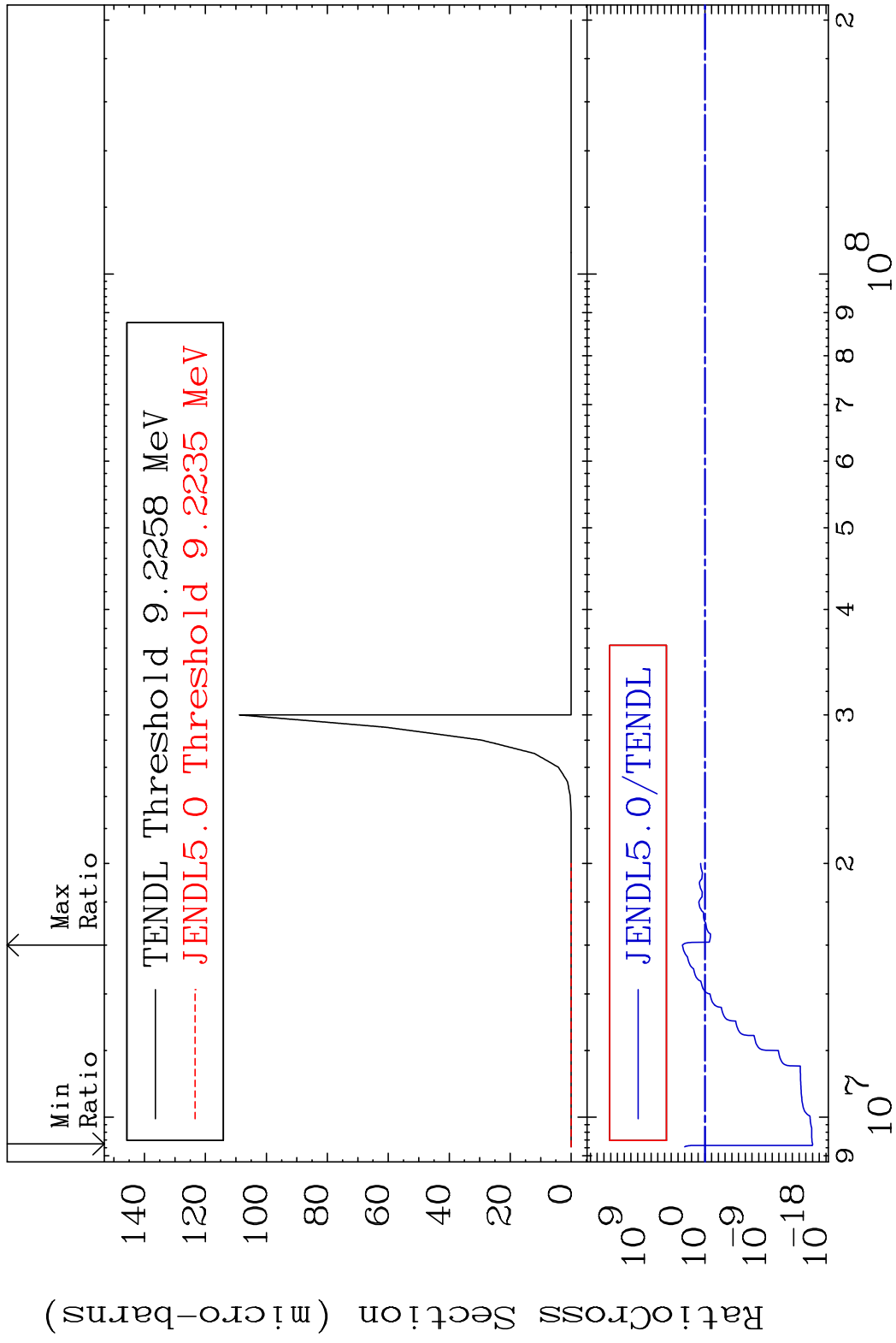
35 Incident Energy (eV) 62-Sm-154

MAT 6255

(n, He-3)

62-Sm-154

Cross Section -100.0 To 9999. %



36

Incident Energy (eV)

62-Sm-154

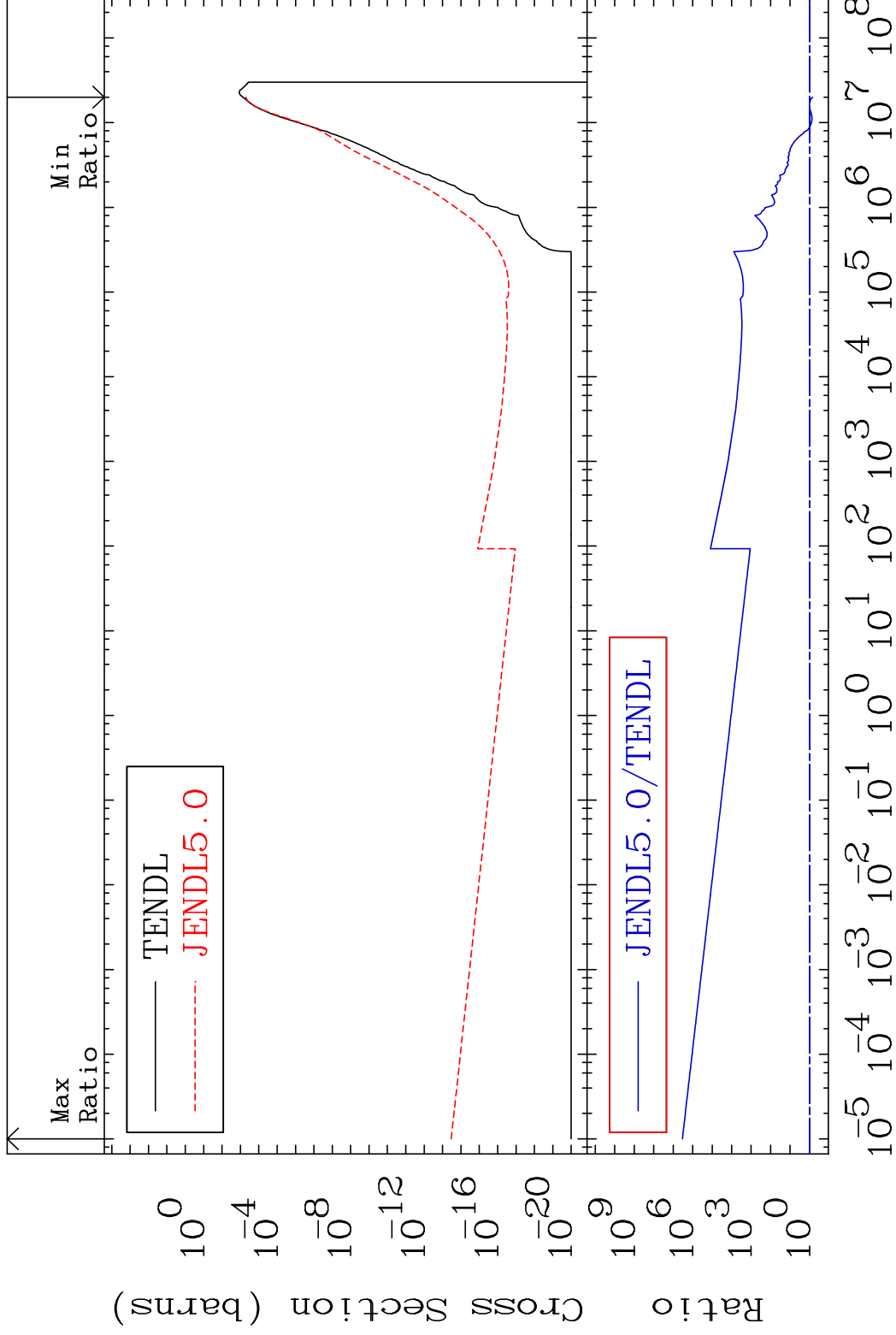
MAT 6255

(n, α)

62-Sm-154

Cross Section

-29.84 To 9999. %

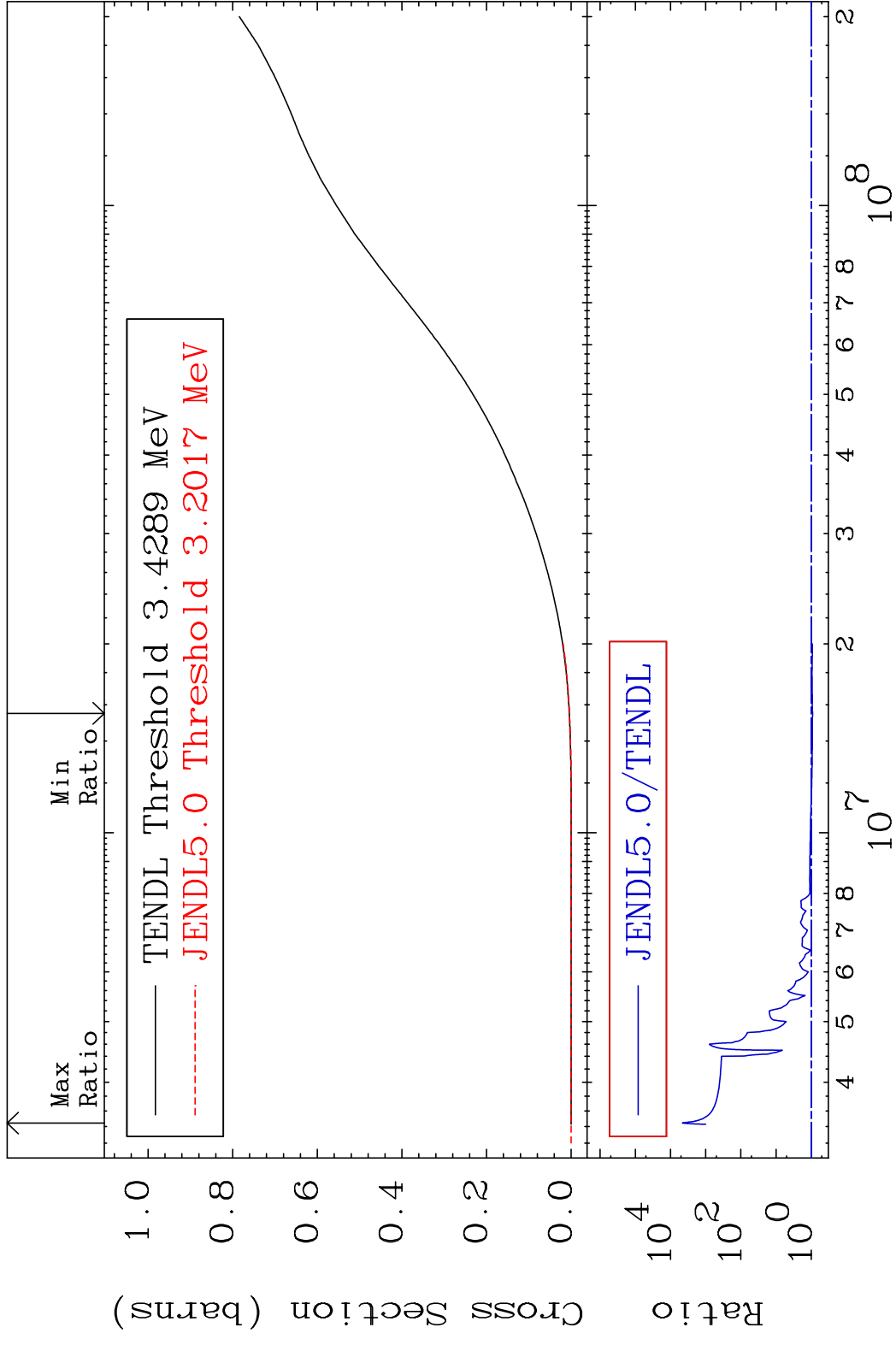


37

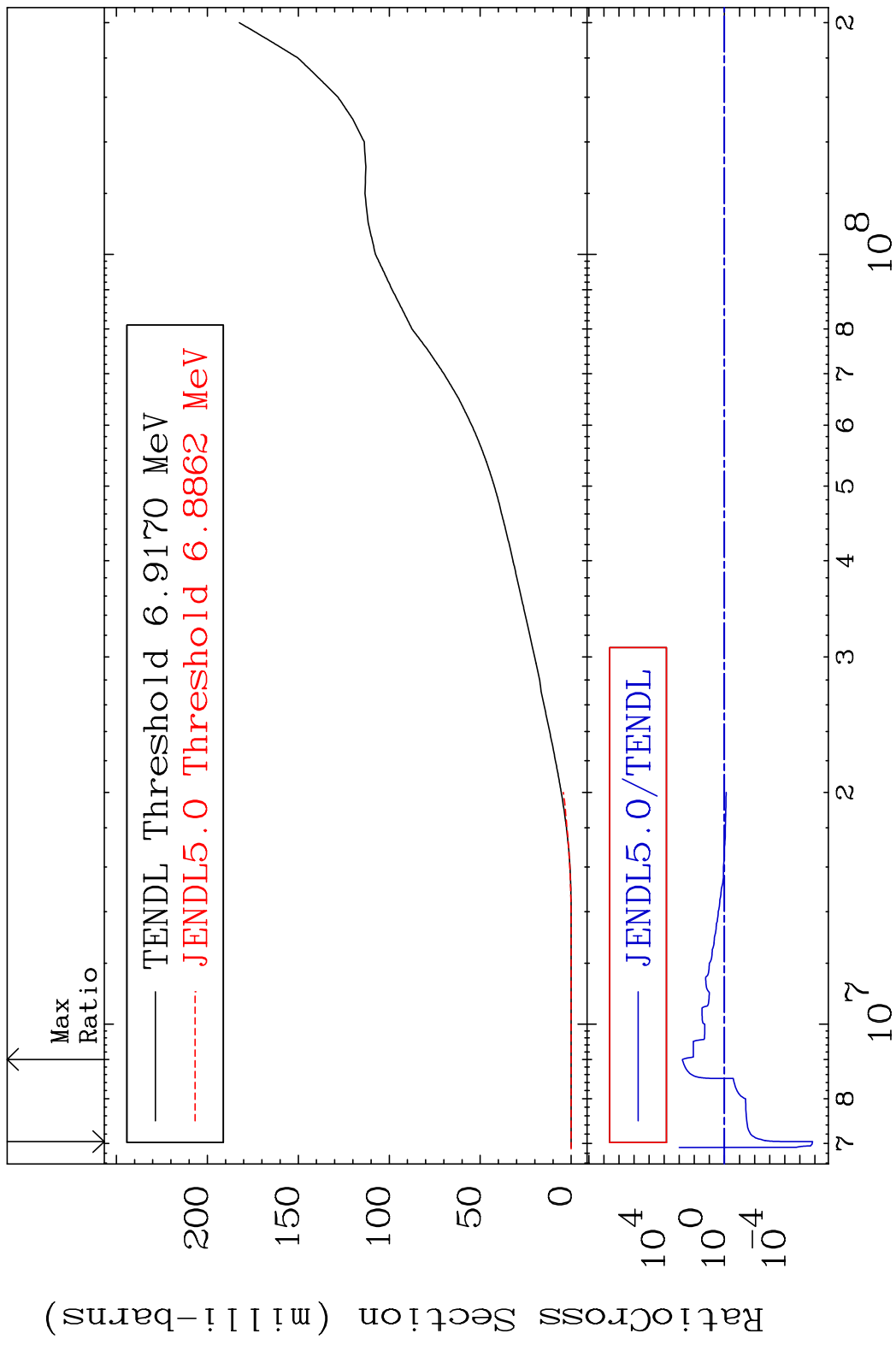
Incident Energy (eV)

62-Sm-154

Cross Section -8.405 To 9999. %



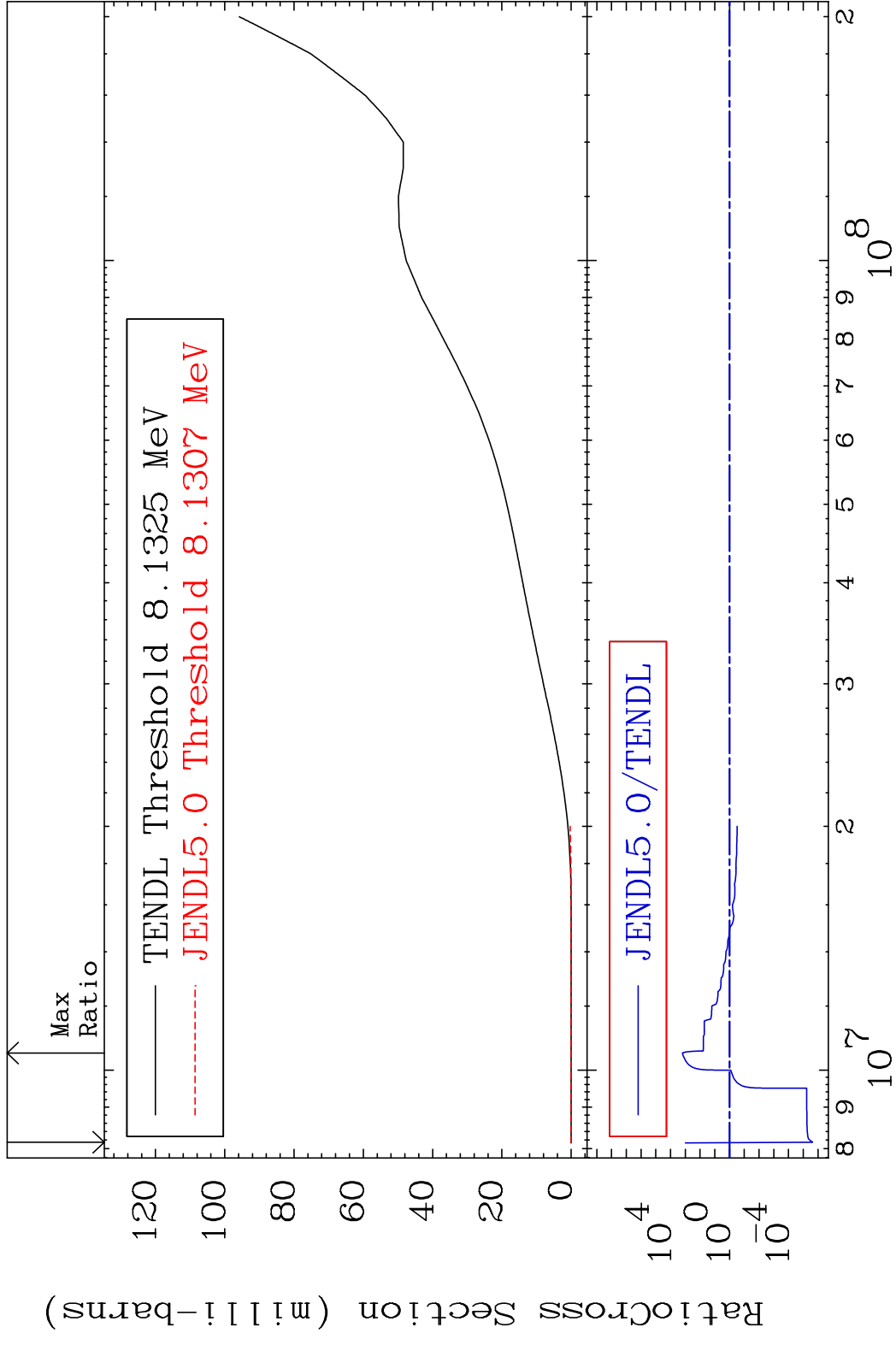
MAT 6255 Deuterium Production 62-Sm-154
 Cross Section -100.0 To 9999. %



MAT 6255

Tritium Production 62-Sm-154

Cross Section -100.0 To 9999. %



40

Incident Energy (eV)

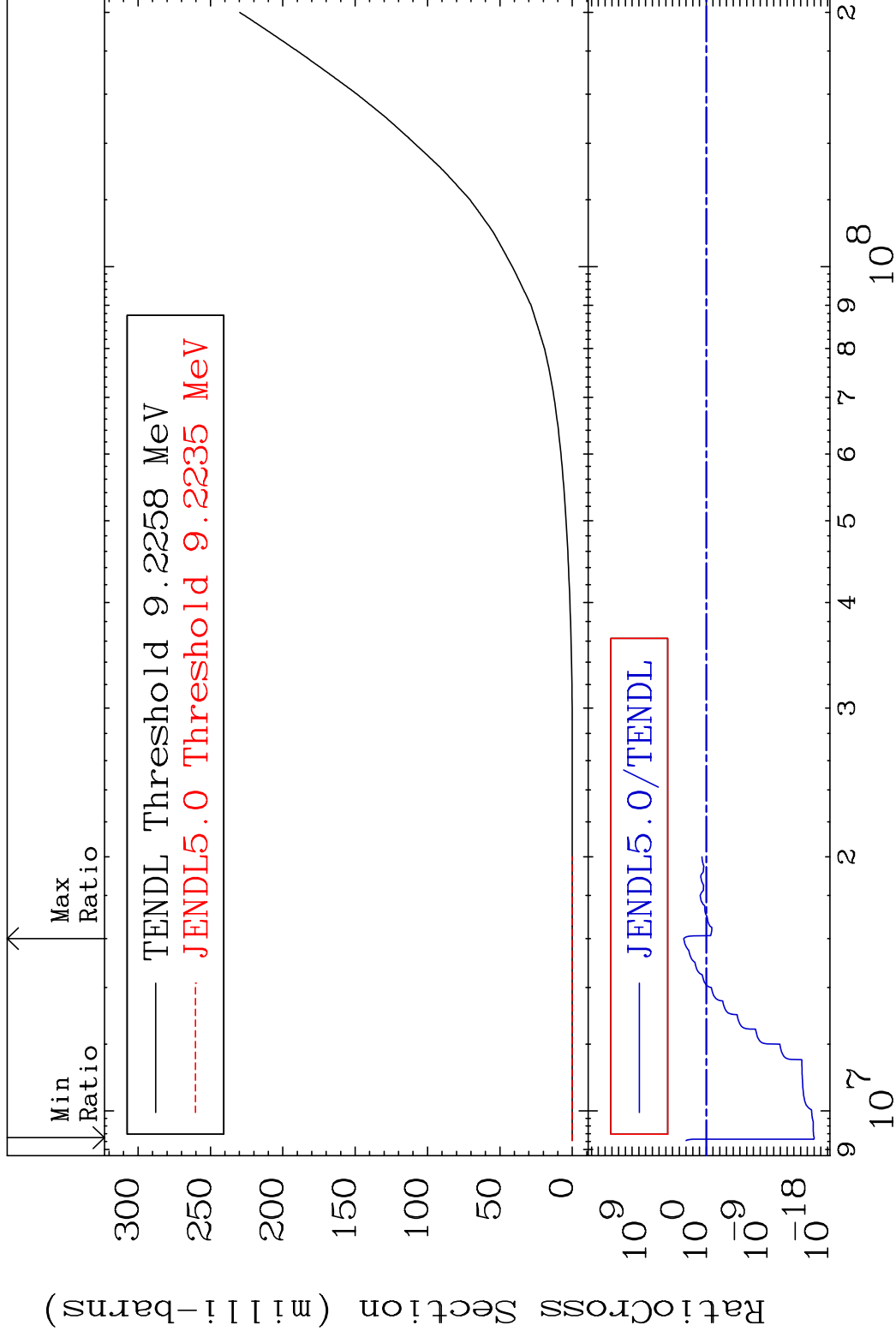
62-Sm-154

MAT 6255

He-3 Production

62-Sm-154

Cross Section -100.0 To 9999. %



41

Incident Energy (eV)

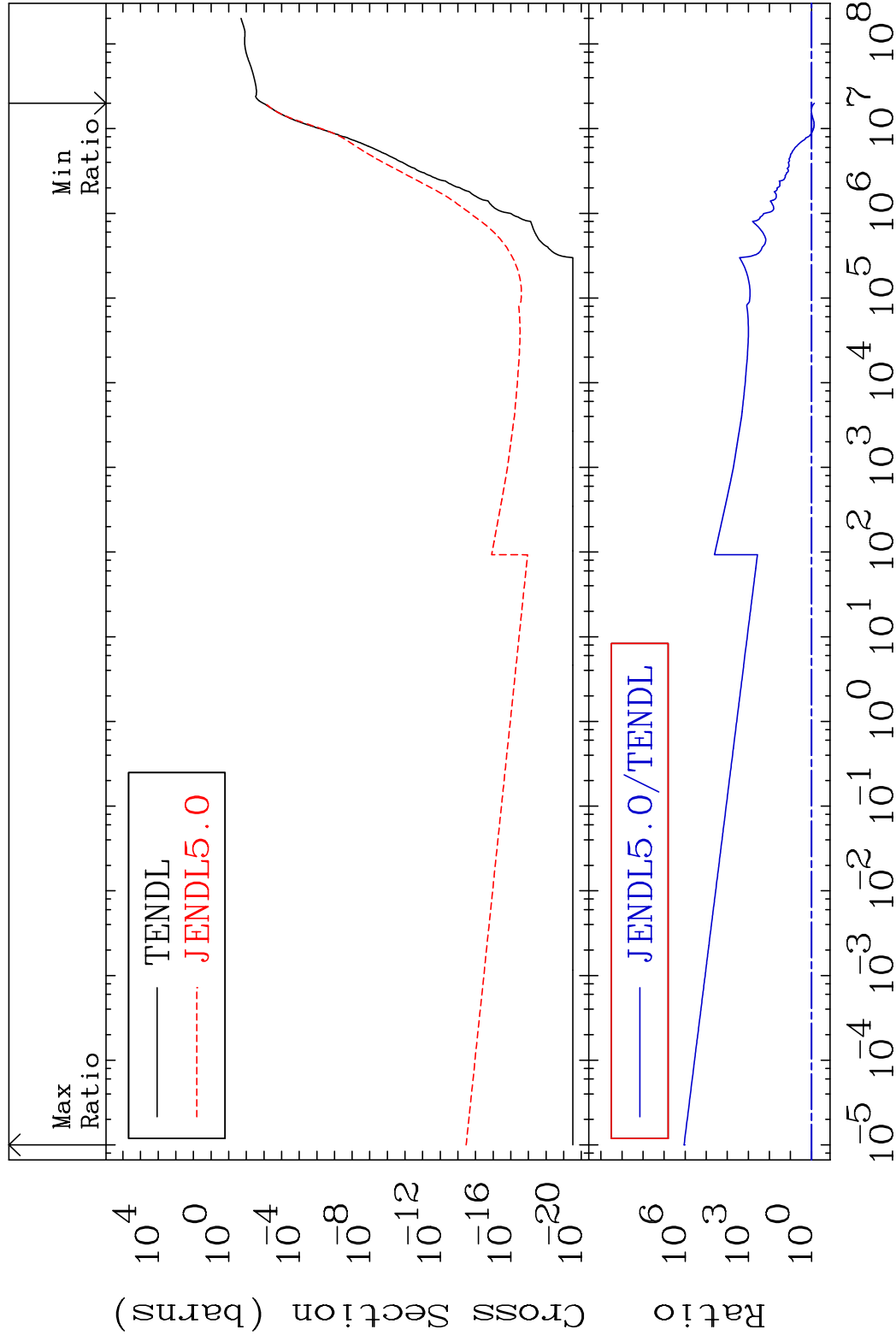
62-Sm-154

MAT 6255

He-4 Production

62-Sm-154

Cross Section -25.76 To 9999. %

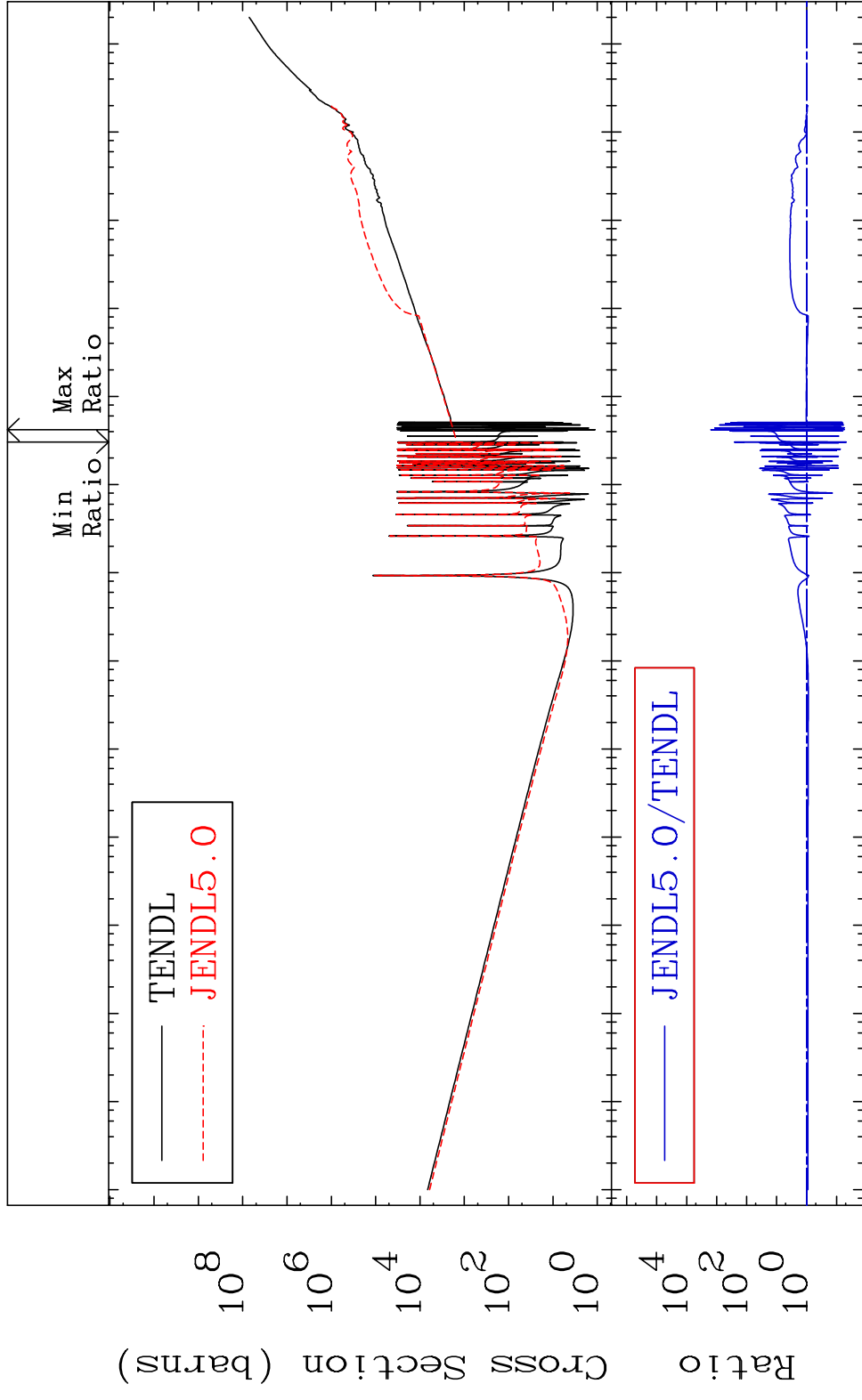


42

Incident Energy (eV)

62-Sm-154

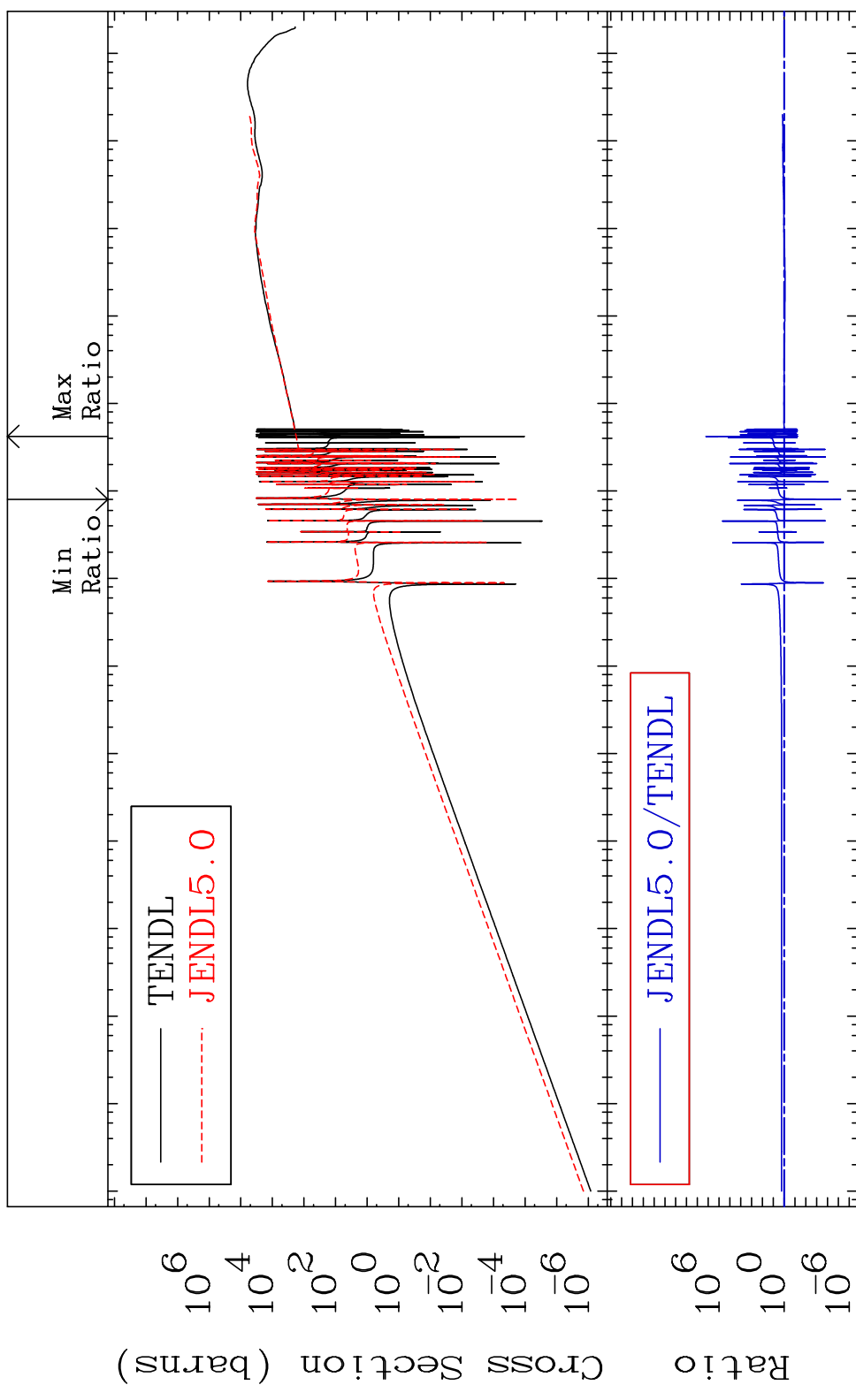
MAT 6255 Kerma total (eV-barns) 62-Sm-154
 Cross Section -95.25 To 9999. %



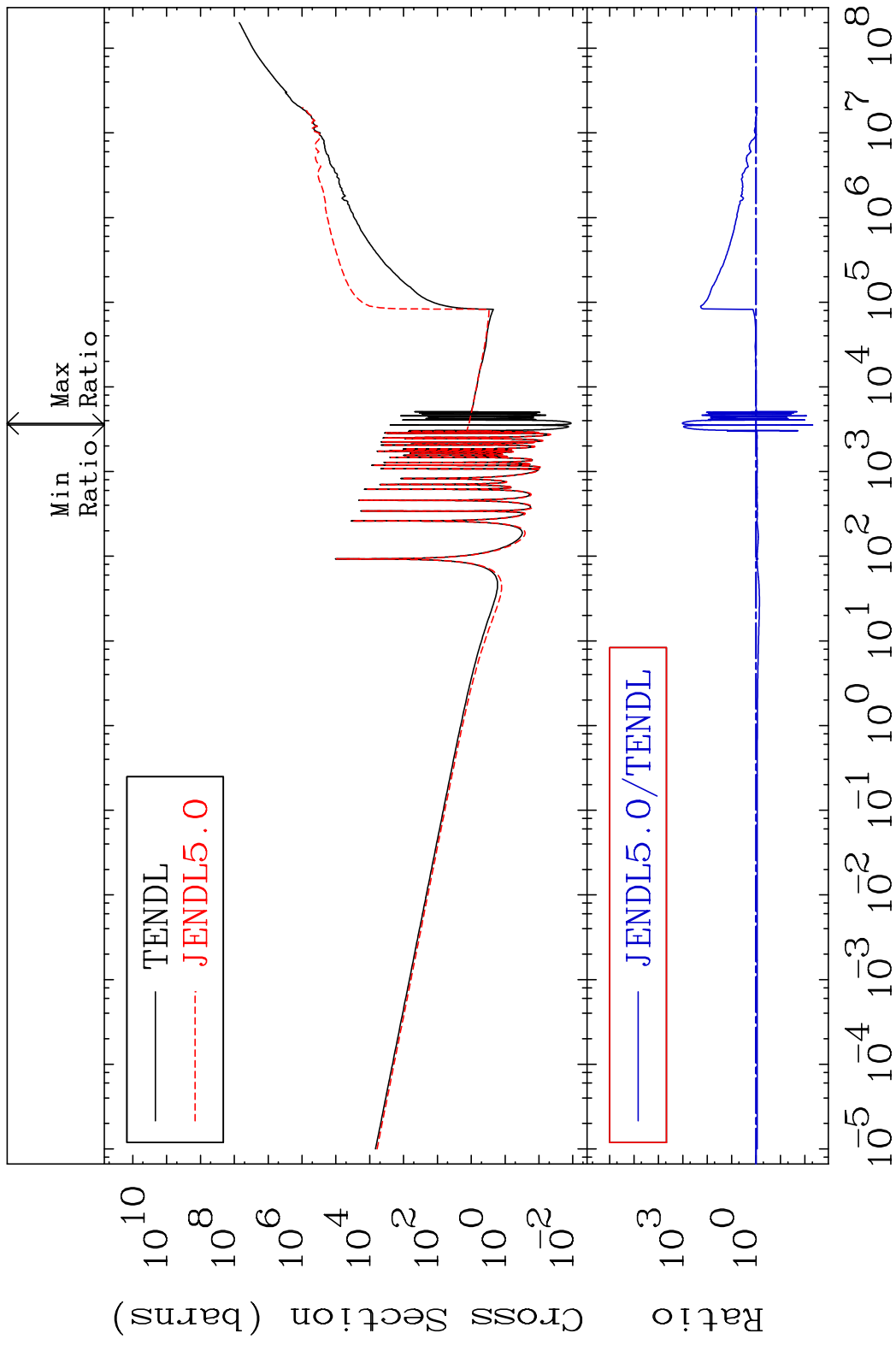
43 Incident Energy (eV) 62-Sm-154

MAT 6255

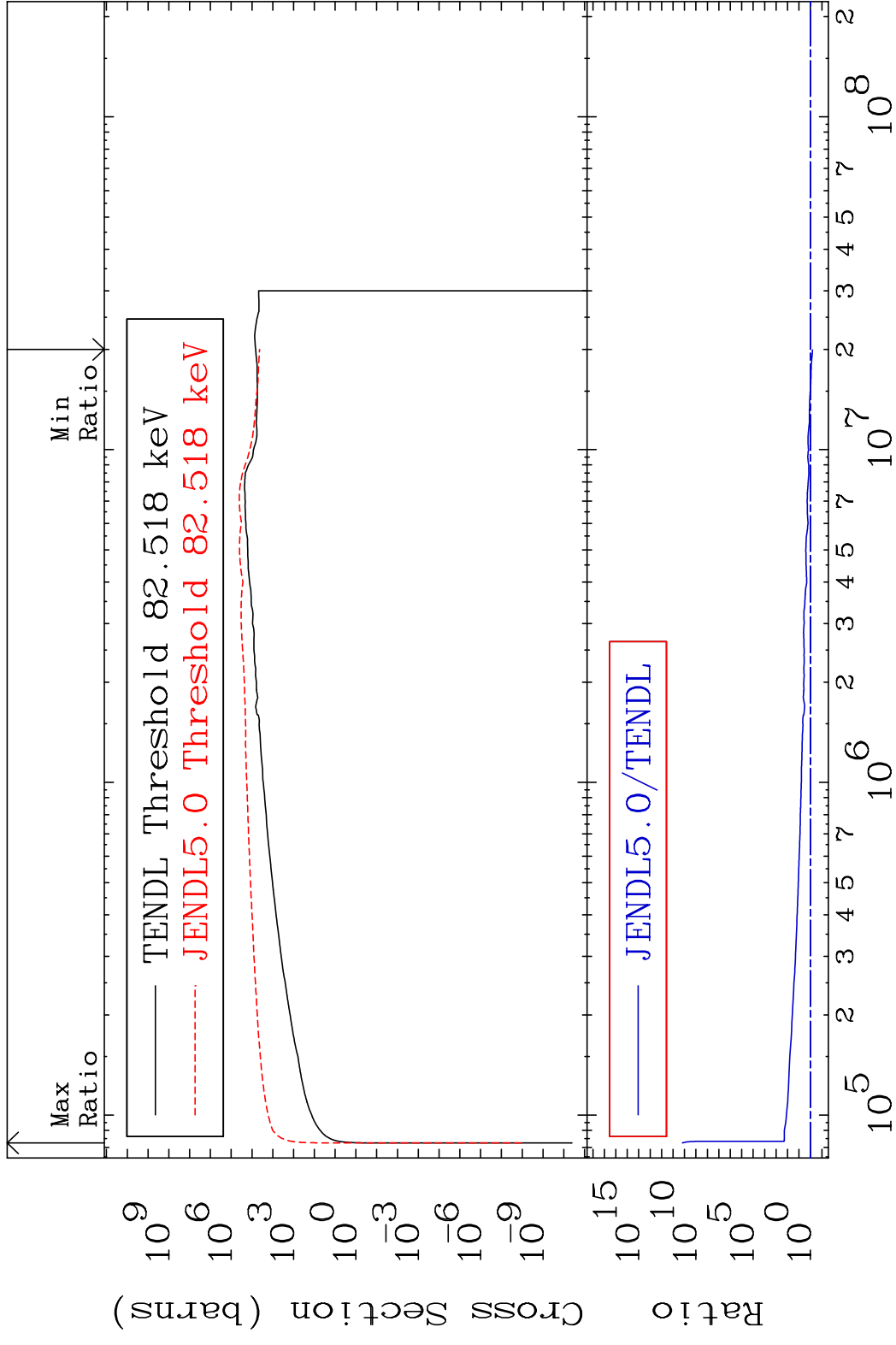
Kerma elastic
Cross Section -100.0 To 9999. %
62-Sm-154



MAT 6255 Kerma non-elastic (all but mt2) 62-Sm-154
 Cross Section -99.51 To 9999. %

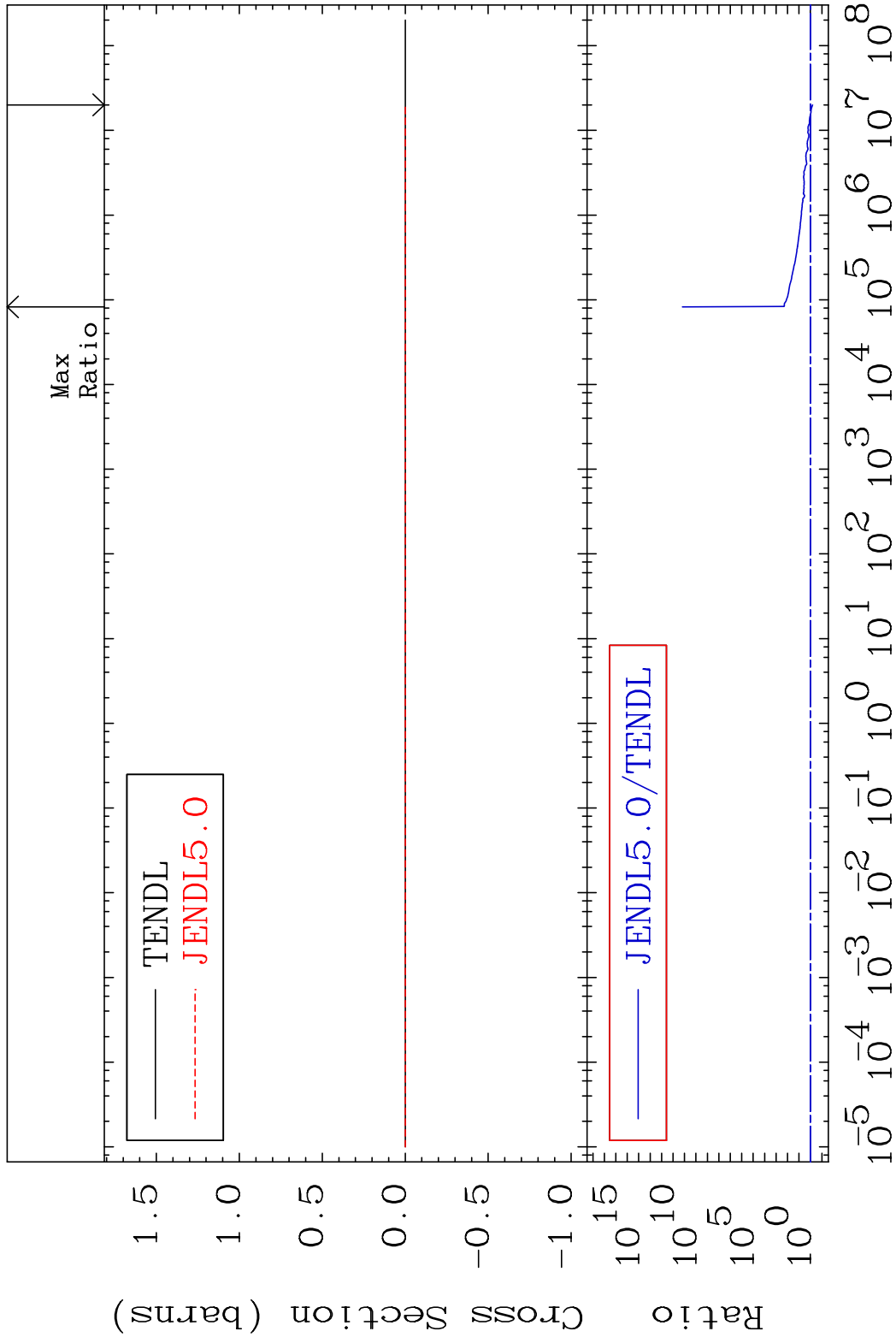


MAT 6255 Kerma inelastic (mt51-91) 62-Sm-154
 Cross Section -34.98 To 9999. %



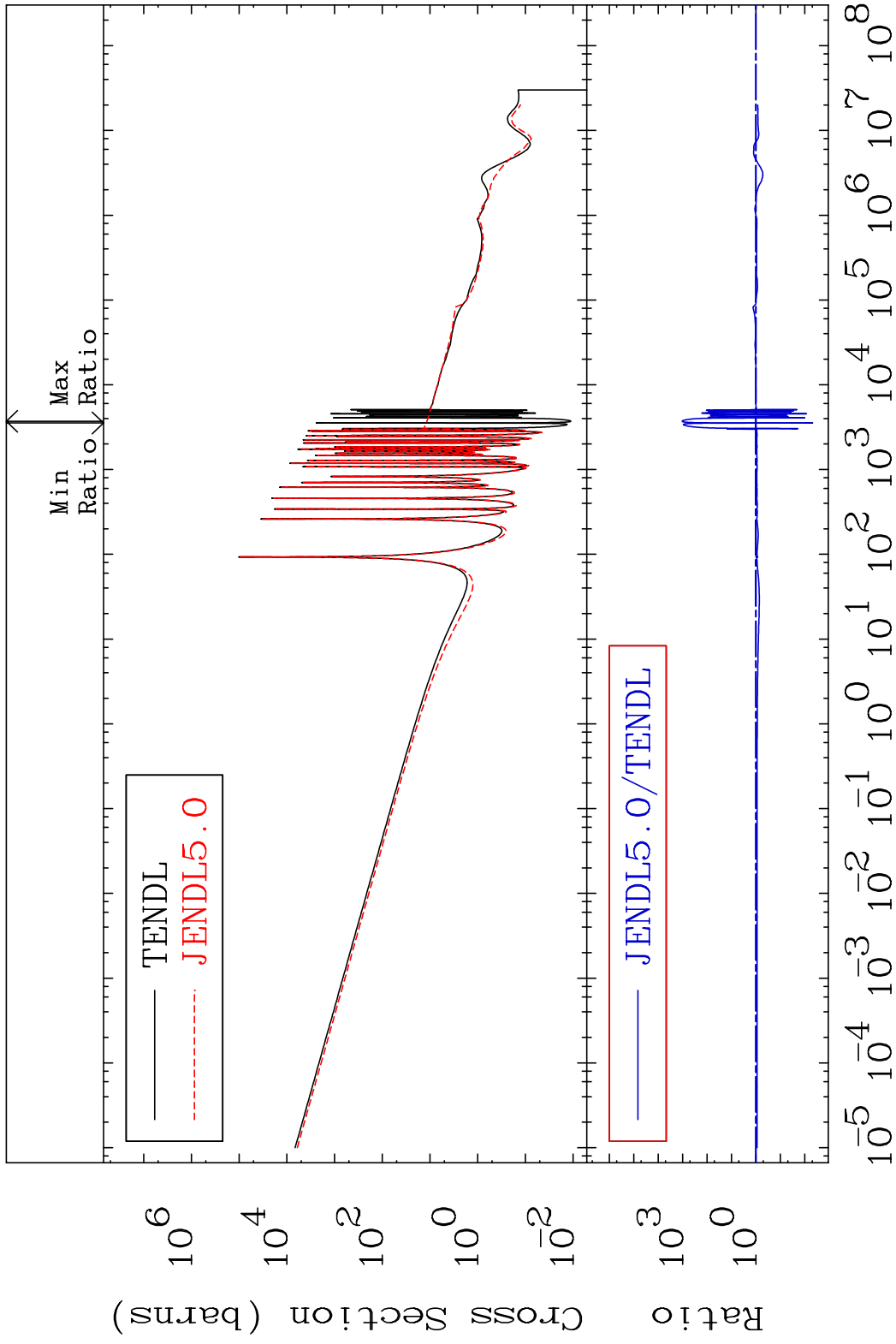
46 Incident Energy (eV) 62-Sm-154

MAT 6255 Kerma fission (mt18 or mt19-20-21-38) ^{62}Sm -154
 Cross Section -34.98 To 9999. %



MAT 6255

Kerma capture (mt102) 62-Sm-154
Cross Section -99.51 To 9999. %



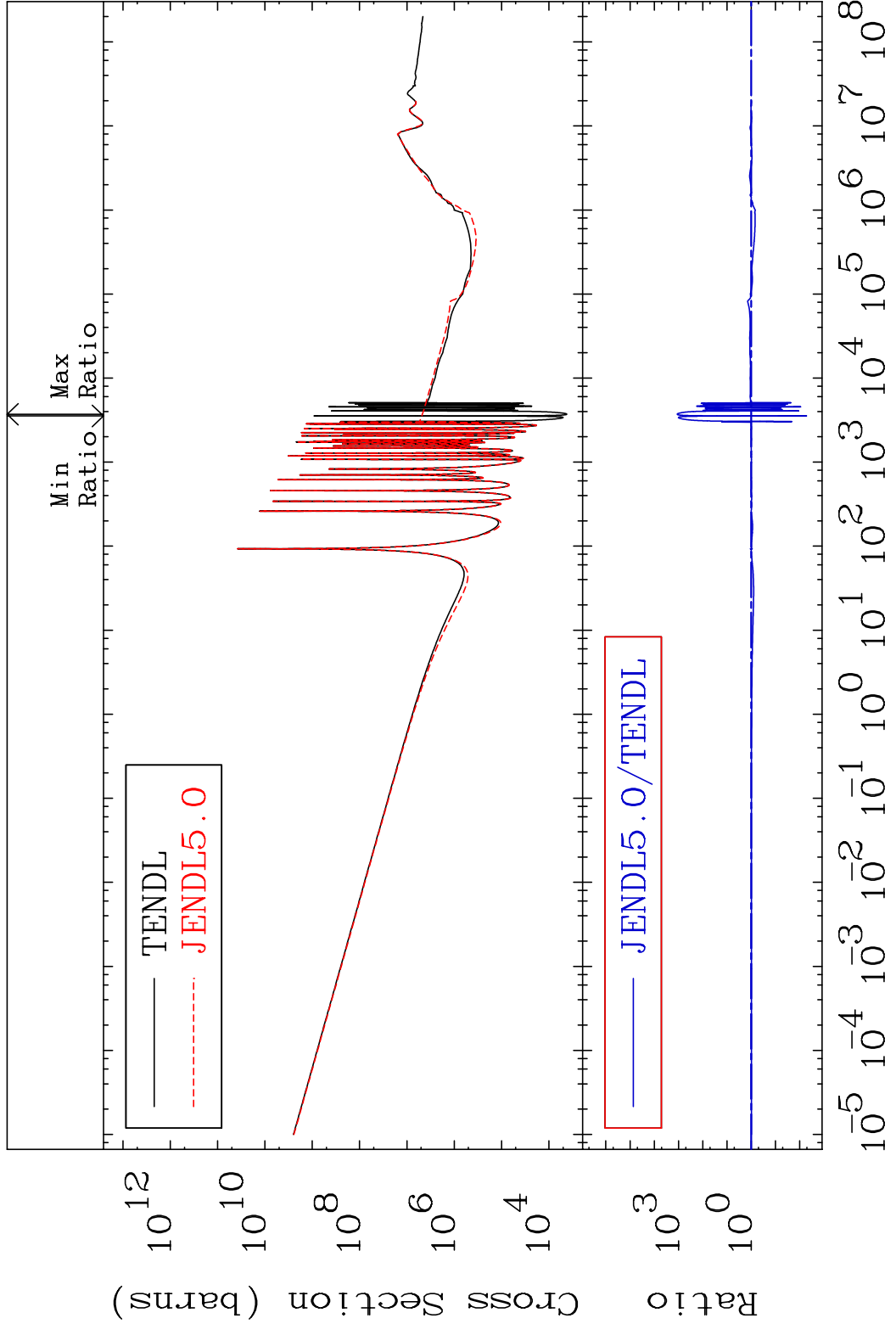
48

Incident Energy (eV)

62-Sm-154

MAT 6255

Total photon (eV-barns) 62-Sm-154
Cross Section -99.47 To 9999. %

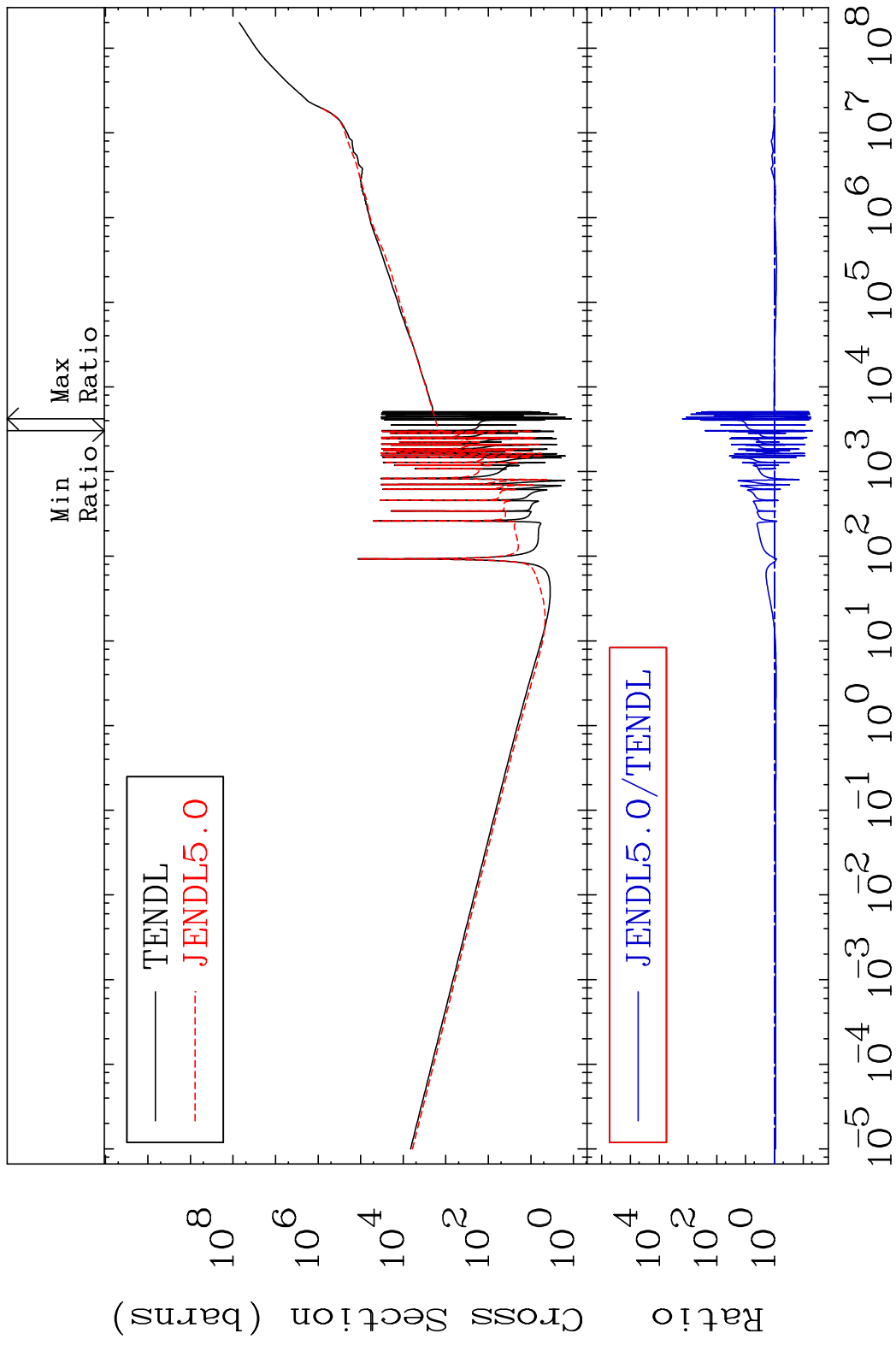


49

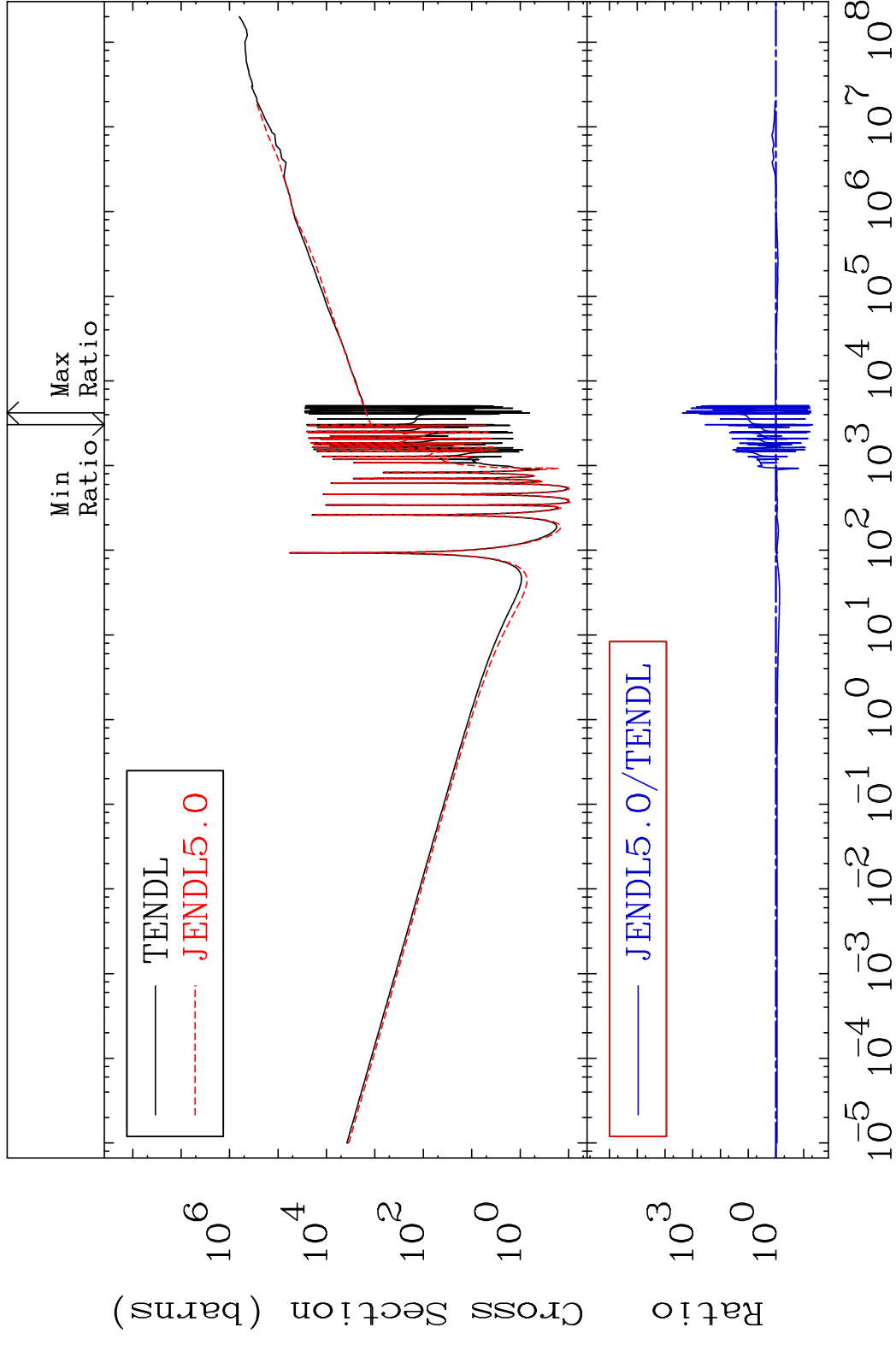
Incident Energy (eV)

62-Sm-154

MAT 6255 Total kinematic kerma (high limit) 62-Sm-154
 Cross Section -95.25 To 9999. %



MAT 6255 Dpa total (eV-barns) 62-Sm-154
 Cross Section -95.21 To 9999. %

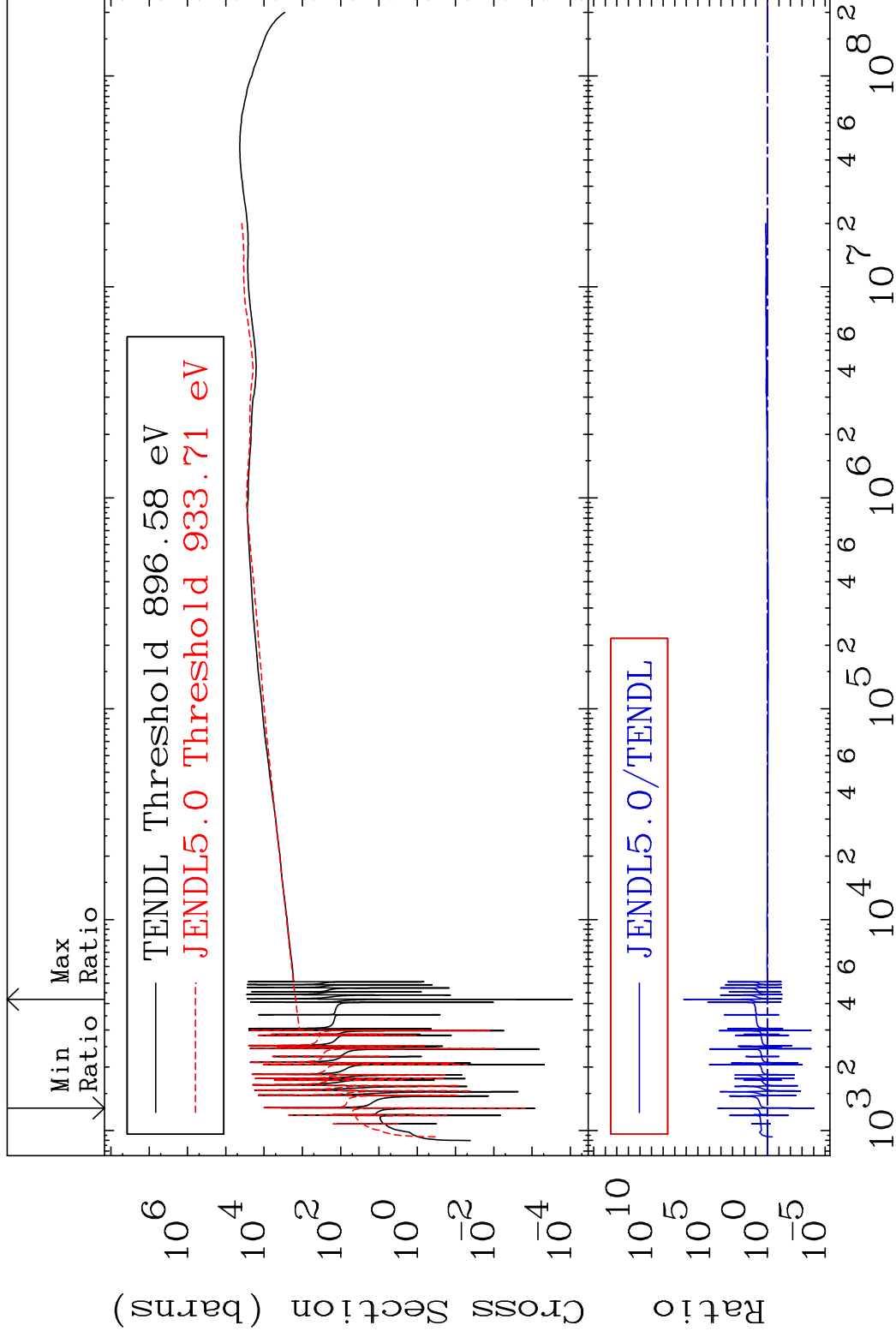


MAT 6255

Dpa elastic (mt2)

62-Sm-154

Cross Section -99.99 To 9999. %

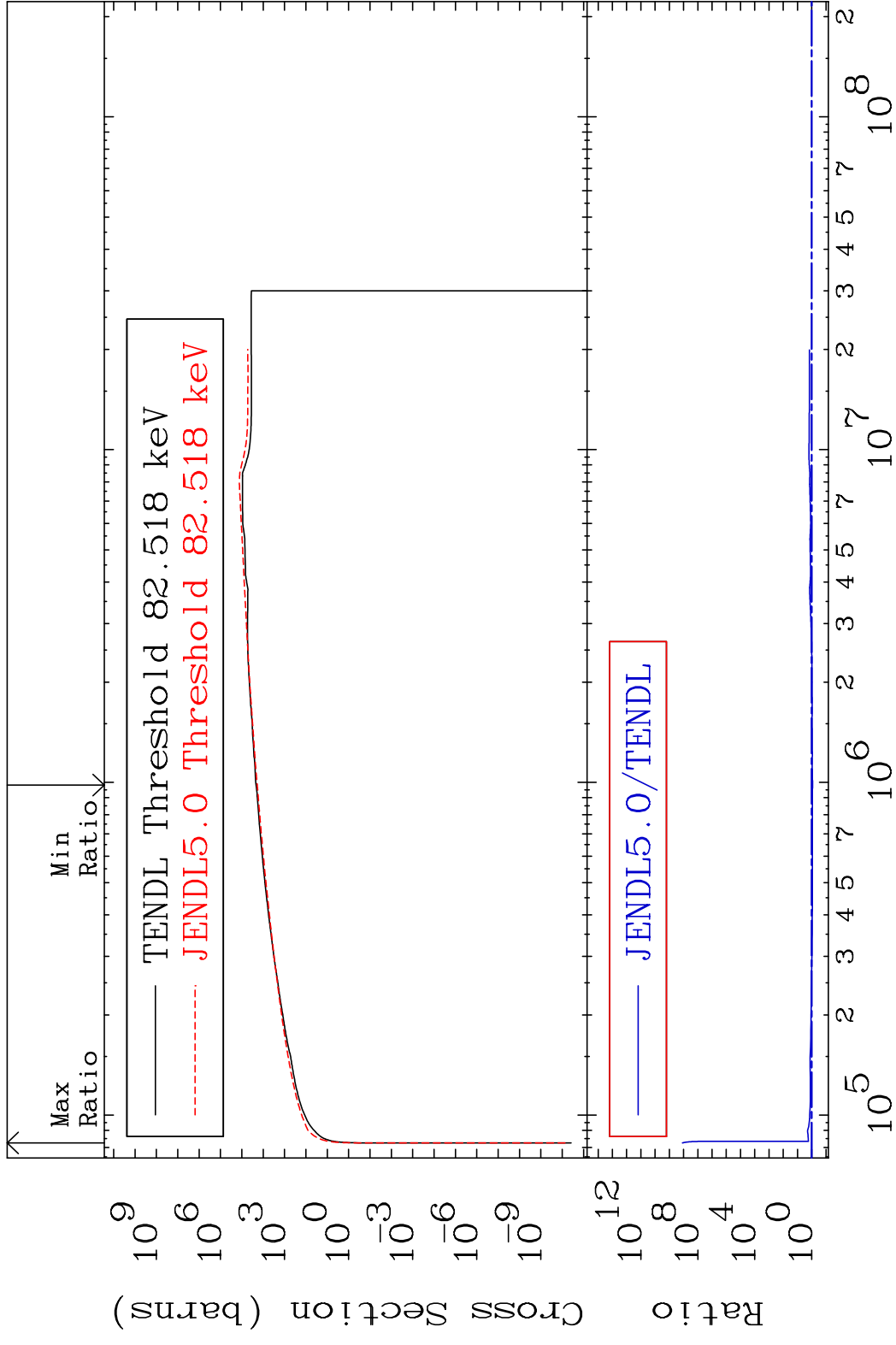


52

Incident Energy (eV)

62-Sm-154

MAT 6255 Dpa inelastic (mt51-91) 62-Sm-154
 Cross Section -12.66 To 9999. %



MAT 6255 Dpa disappearance (mt102 -120) 62-Sm-154
 Cross Section -99.51 To 9999. %

