

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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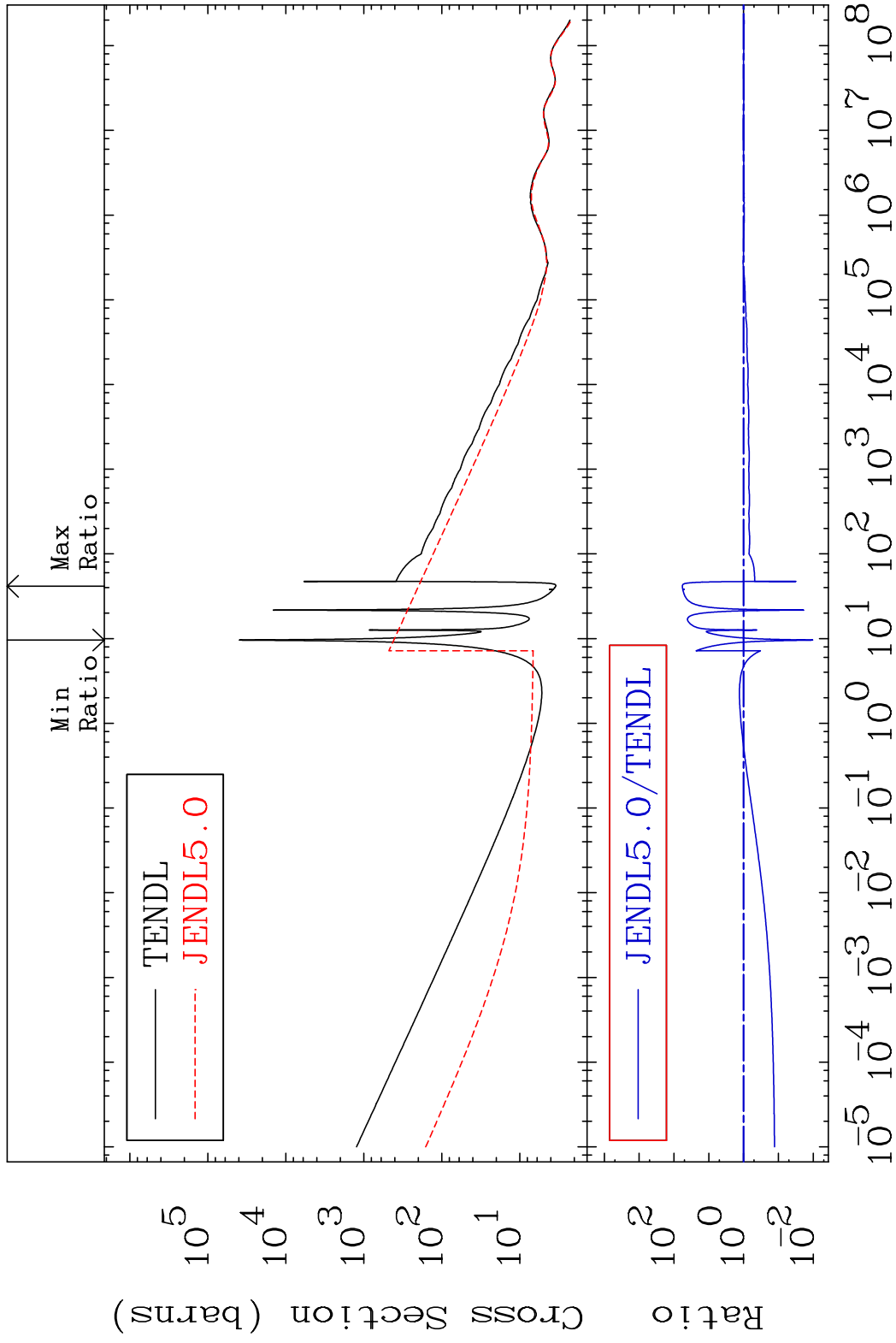
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6137

Total 61-Pm-143
Cross Section -98.95 To 5643. %



1

Incident Energy (eV)

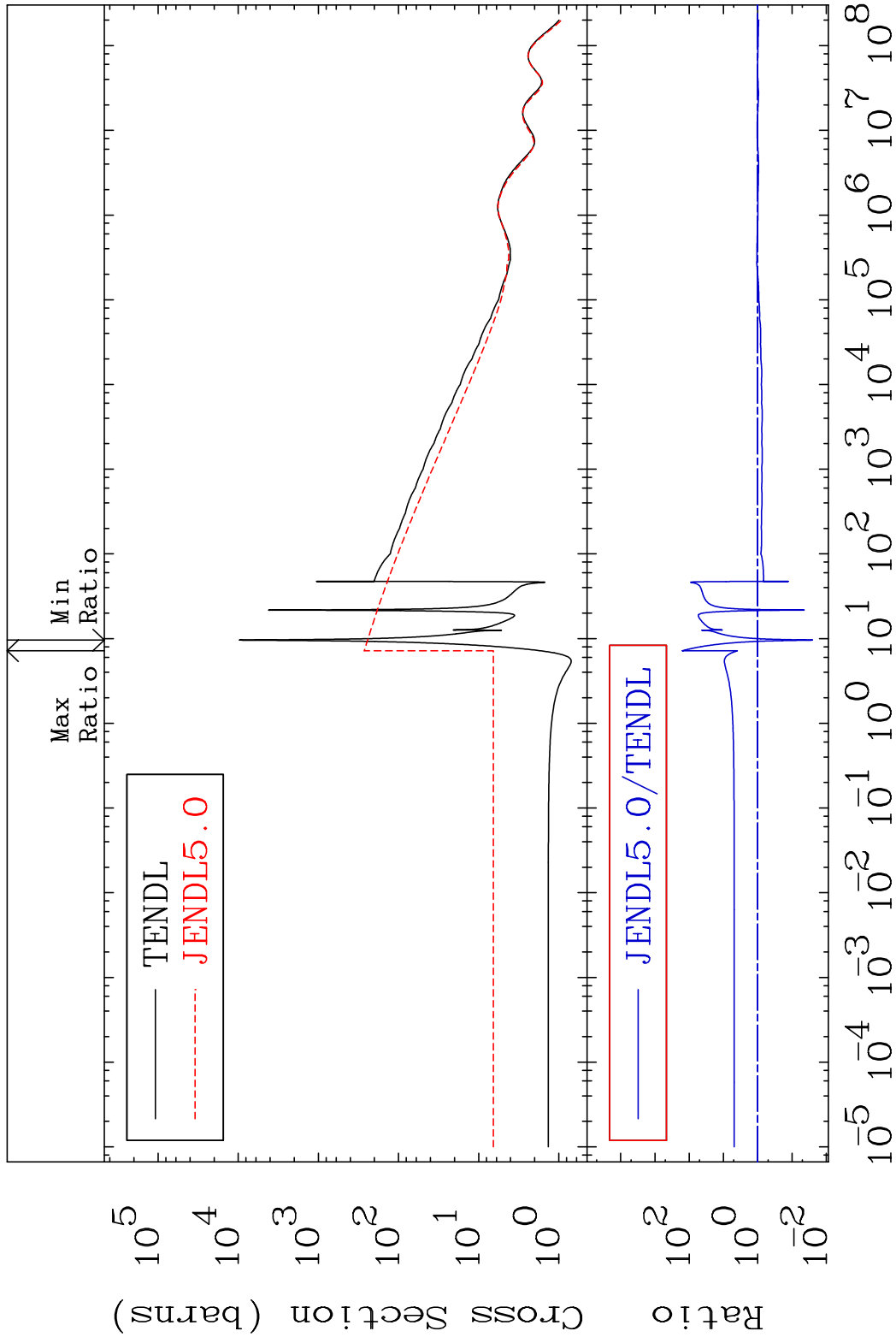
61-Pm-143

MAT 6137

Elastic

61-Pm-143

Cross Section -97.49 To 9999. %



2

Incident Energy (eV)

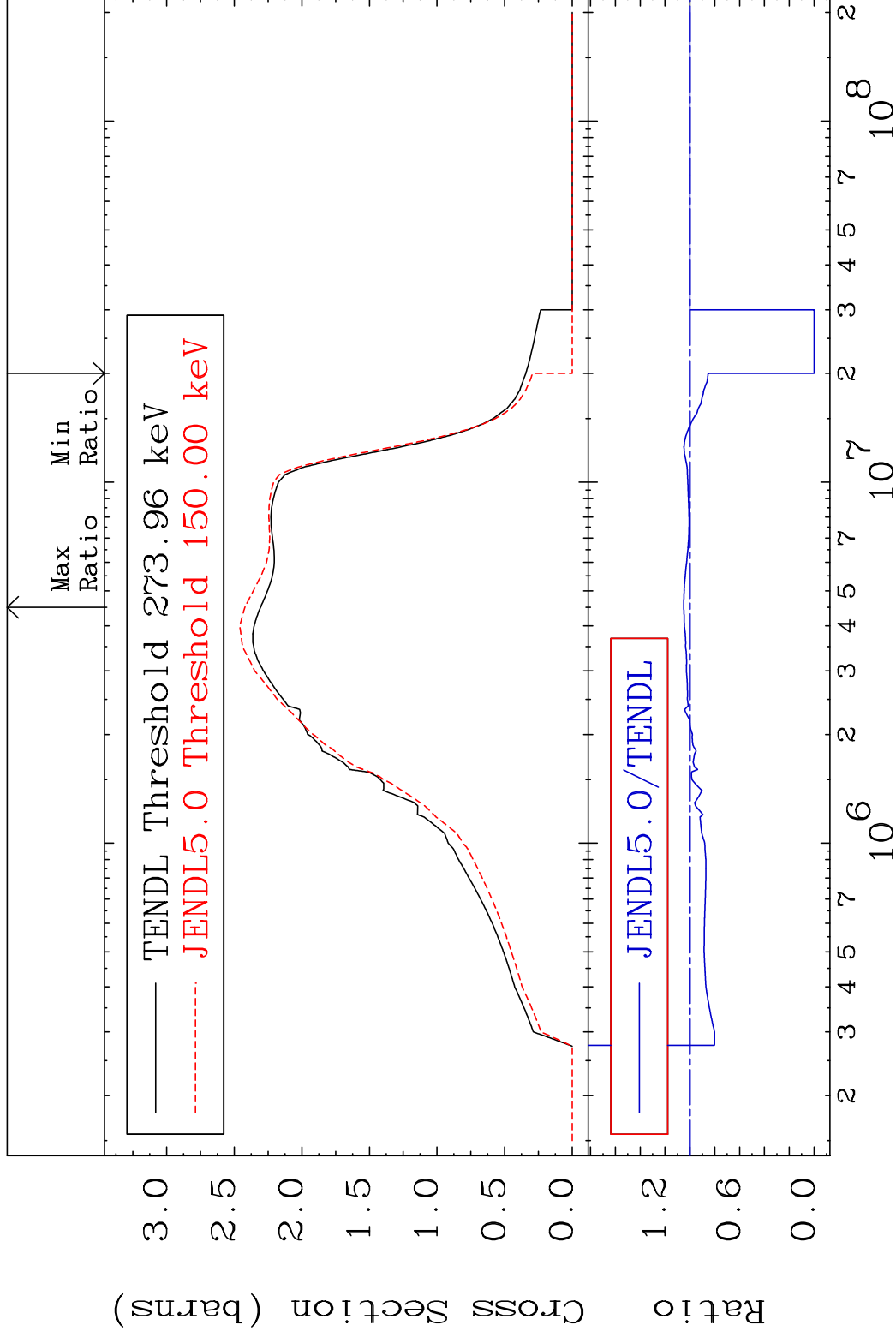
61-Pm-143

MAT 6137

Inelastic

61-Pm-143

Cross Section -100.0 To 5.034 %

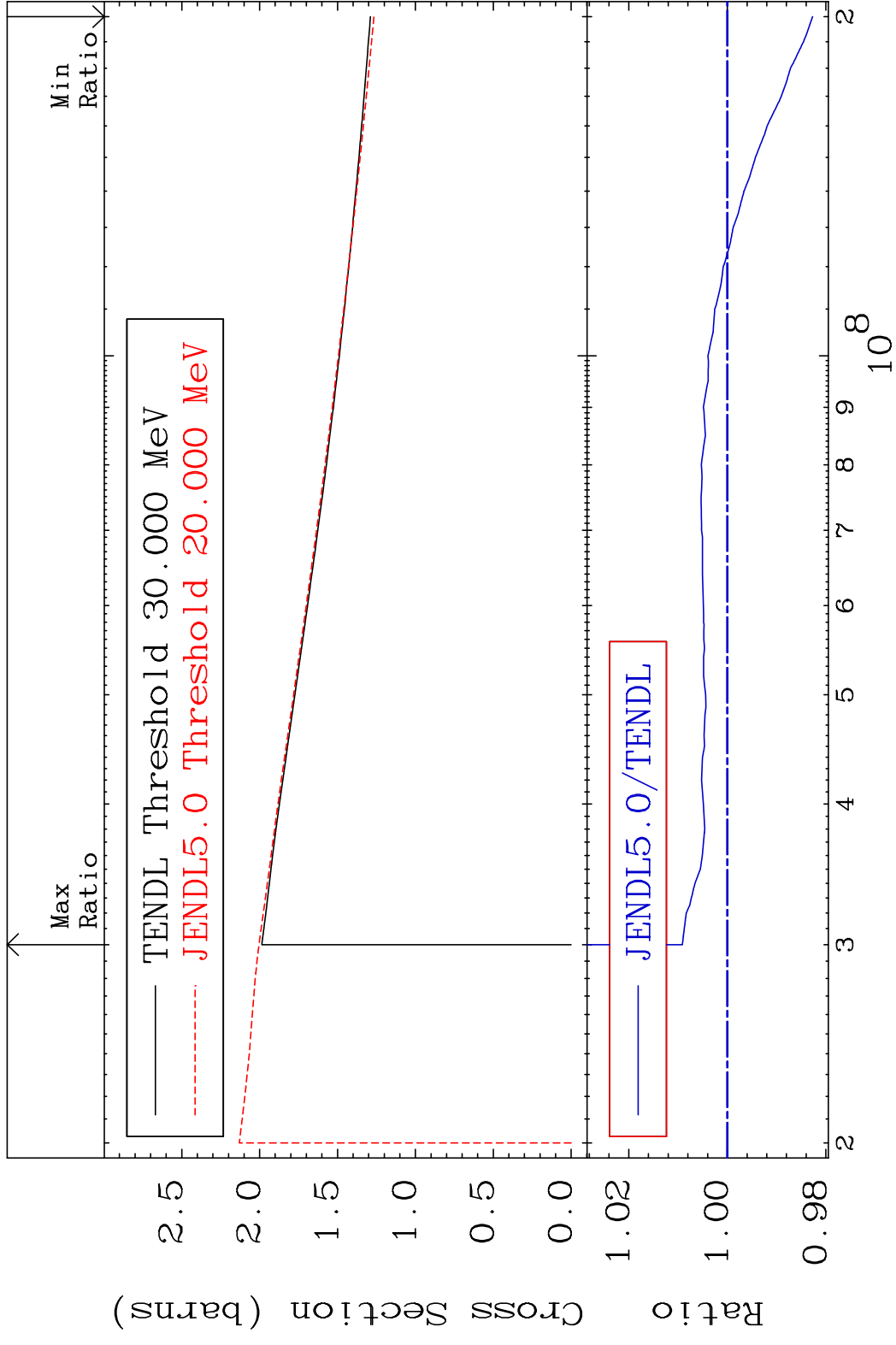


MAT 6137

(n, remainder)

61-Pm-143

Cross Section -1.729 To 0.912 %



4

Incident Energy (eV)

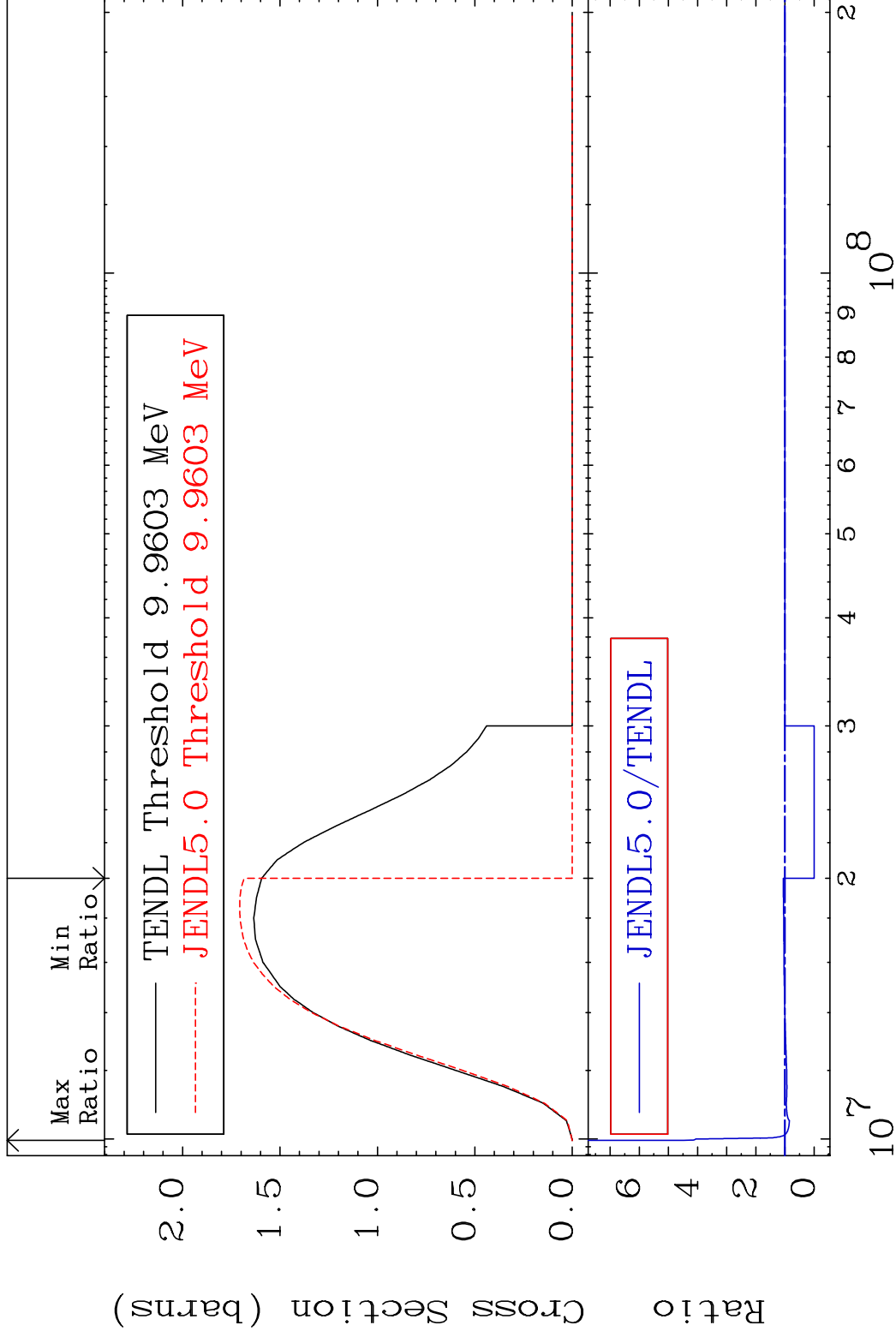
61-Pm-143

MAT 6137

(n,2n)

61-Pm-143

Cross Section -100.0 To 347.7 %



61-Pm-143

Incident Energy (eV)

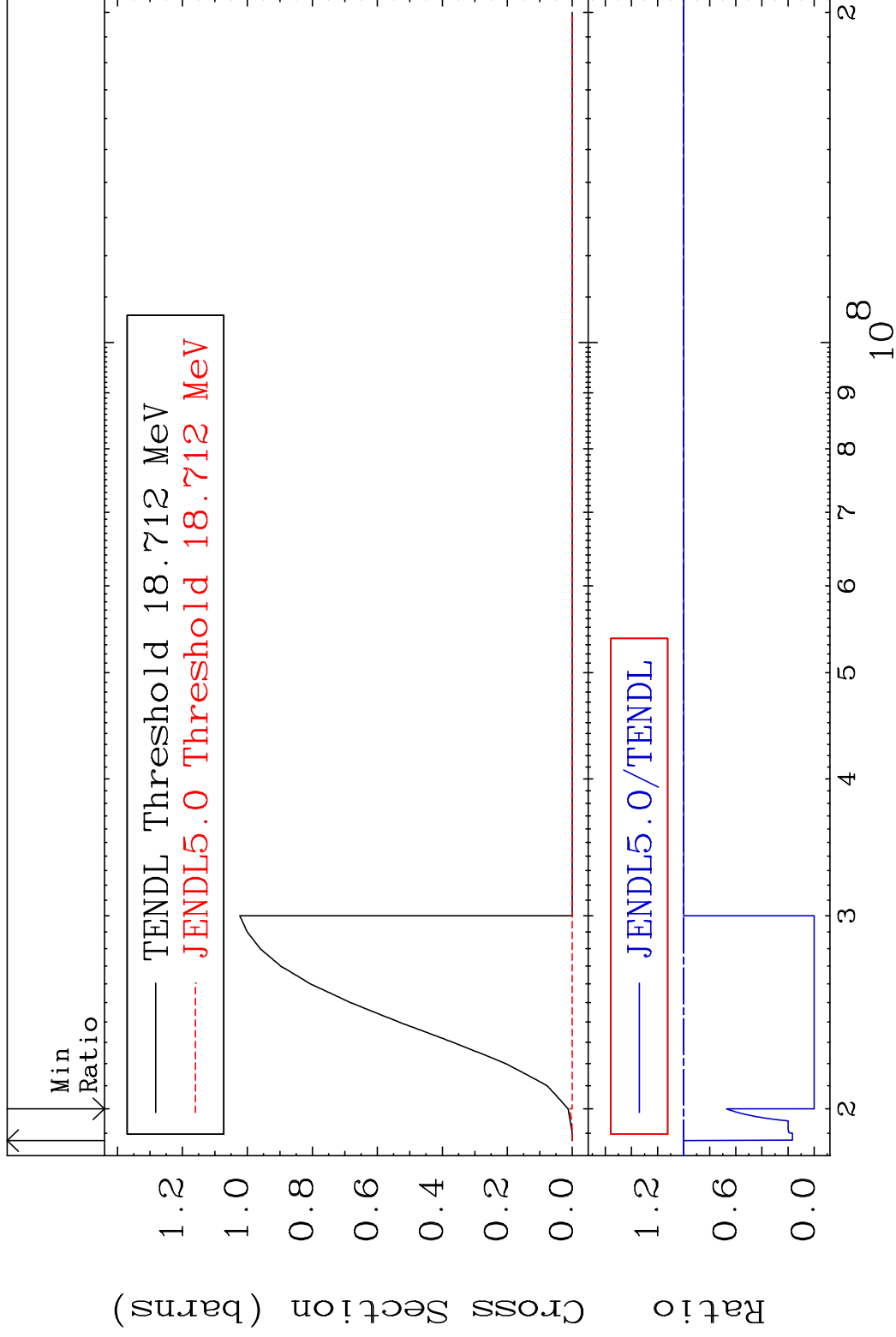
5

MAT 6137

(n,3n)

61-Pm-143

Cross Section -100.0 To 0.000 %

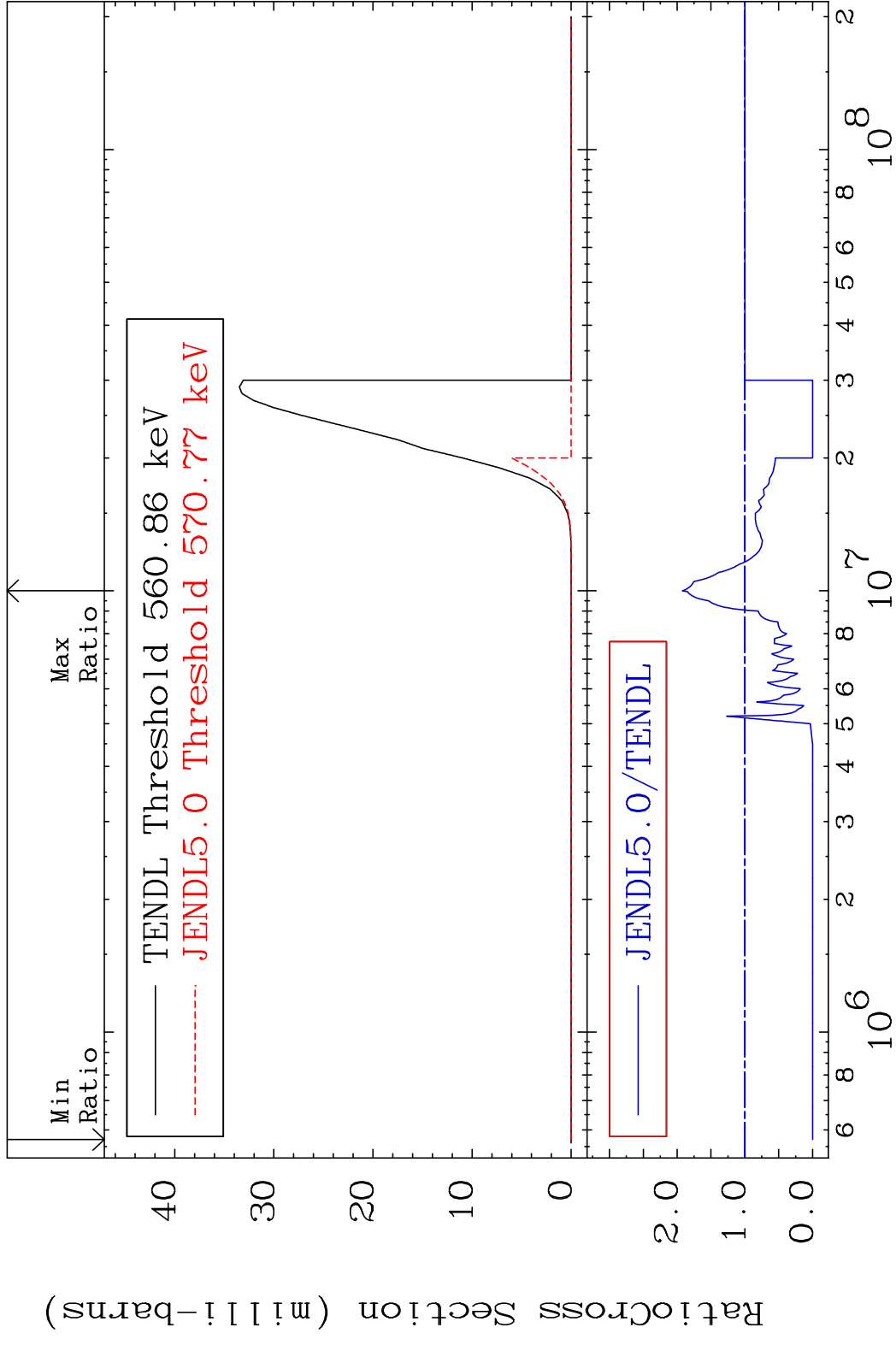


6

Incident Energy (eV)

61-Pm-143

MAT 6137 (n, n') α 61-Pm-143
 Cross Section -100.0 To 92.31 %



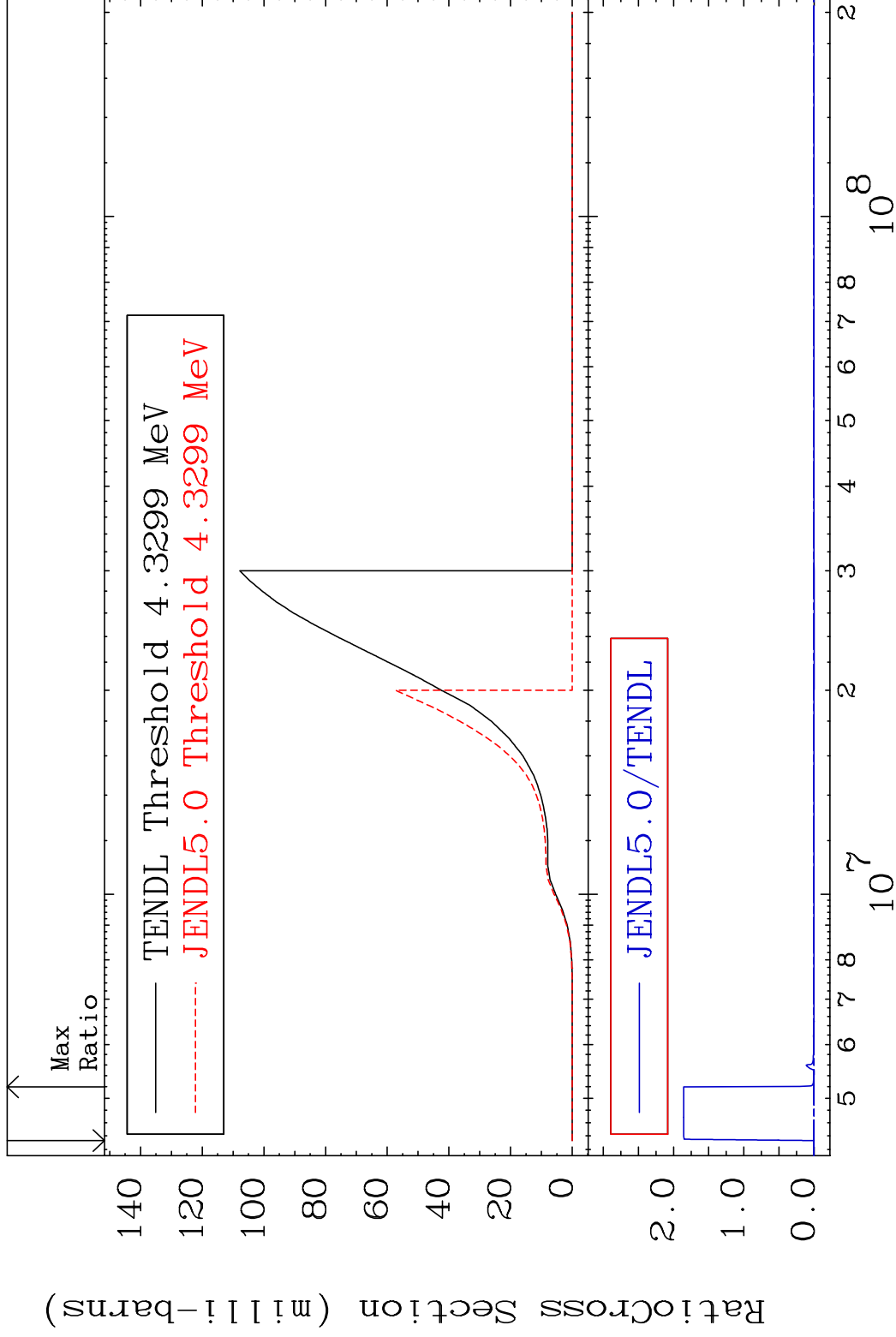
7 Incident Energy (eV) 61-Pm-143

MAT 6137

(n, n') p

61-Pm-143

Cross Section -100.0 To 9999. %



8

Incident Energy (eV)

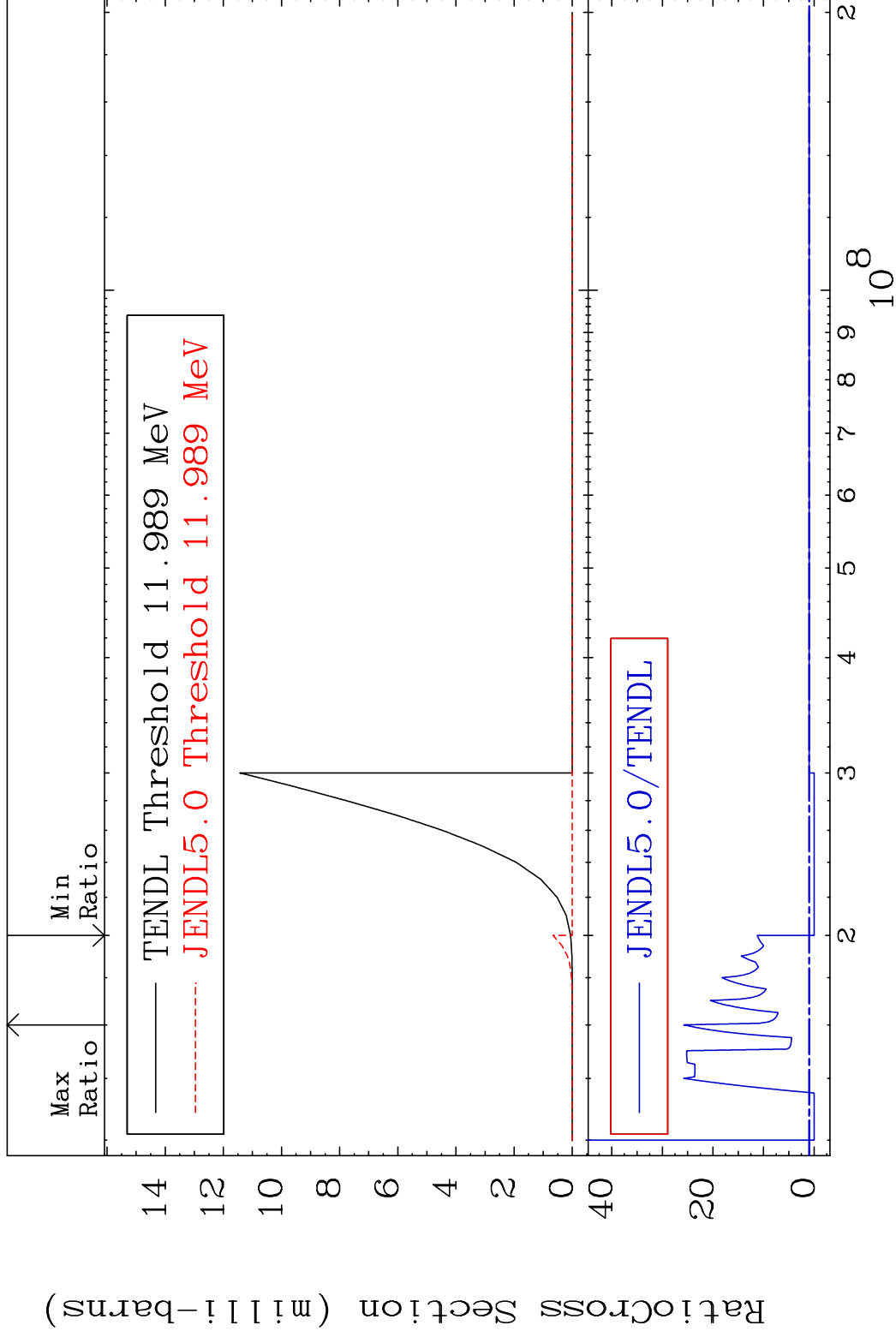
61-Pm-143

MAT 6137

(n, n') d

61-Pm-143

Cross Section -100.0 To 2478. %



9

Incident Energy (eV)

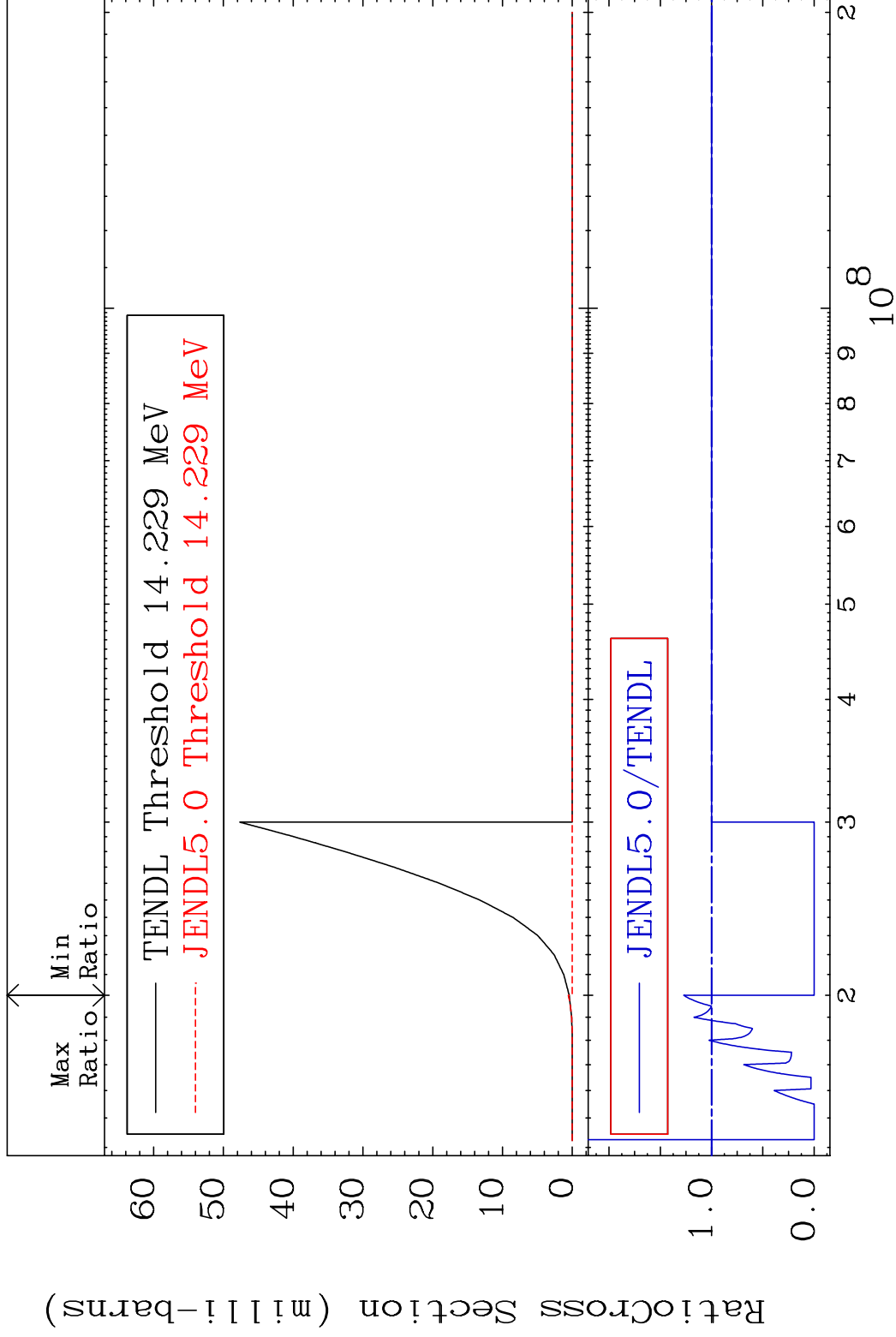
61-Pm-143

MAT 6137

(n,2n) p

61-Pm-143

Cross Section -100.0 To 27.20 %

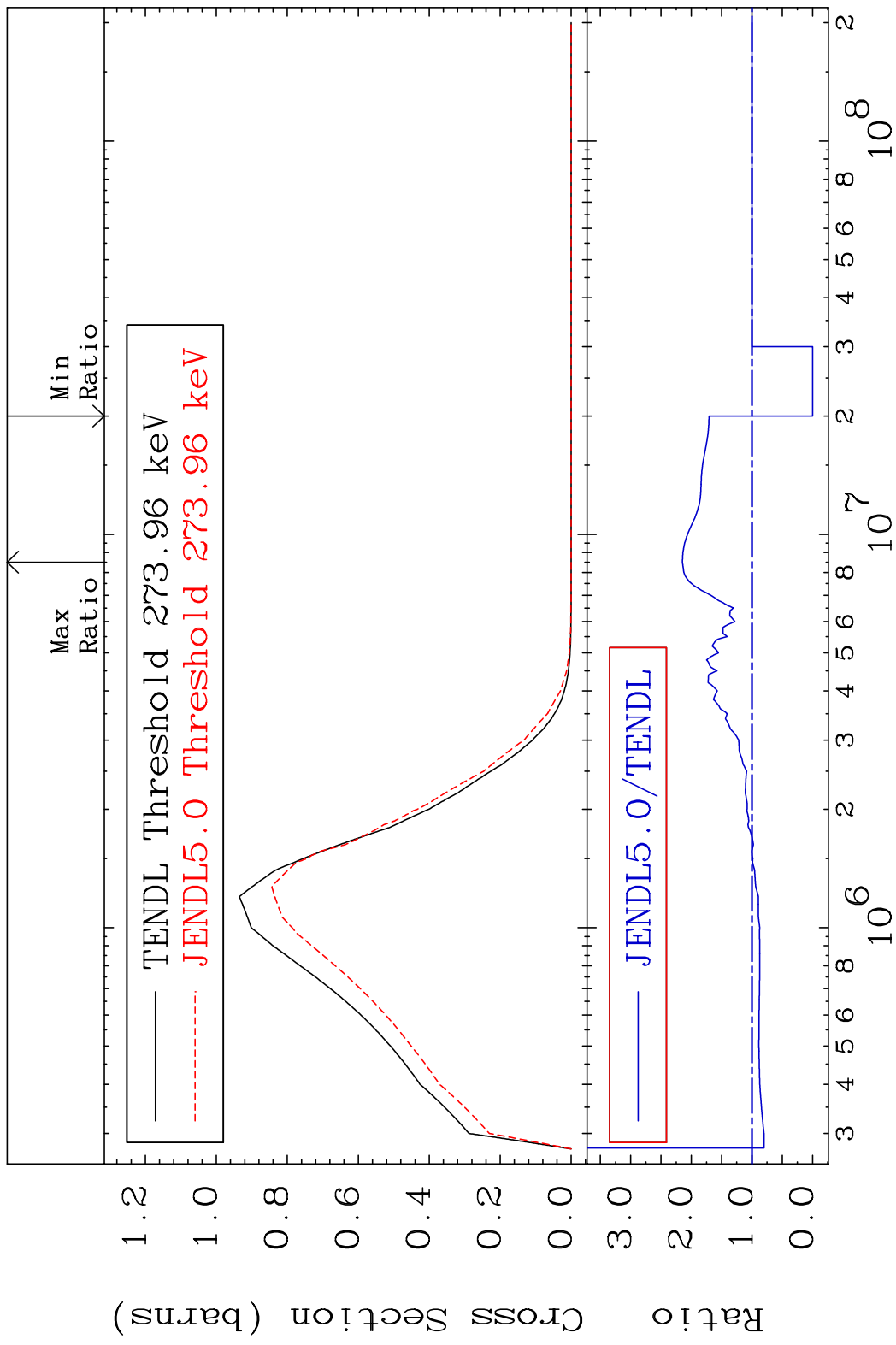


10

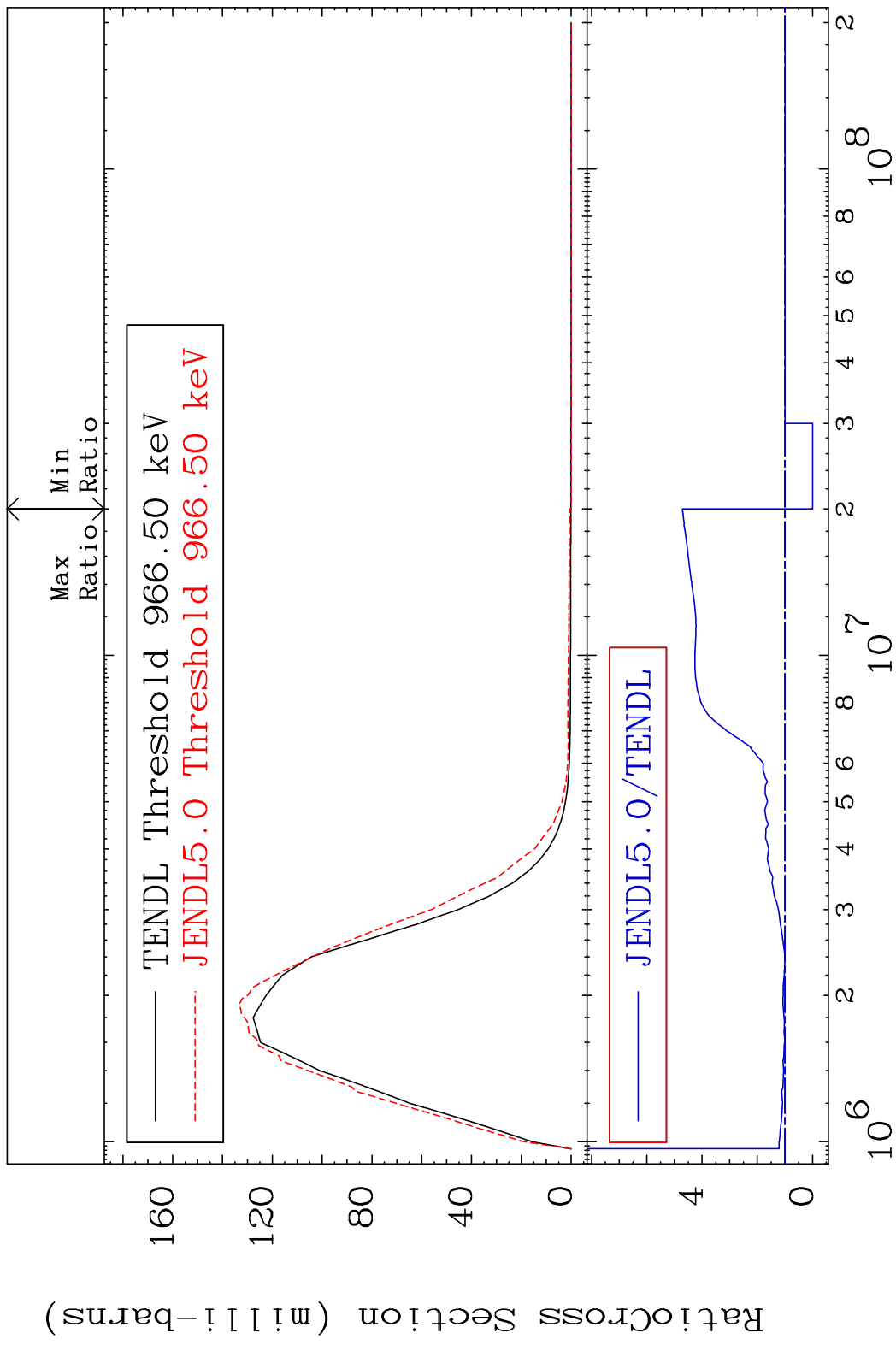
Incident Energy (eV)

61-Pm-143

MAT 6137 MT= 51 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 114.8 %

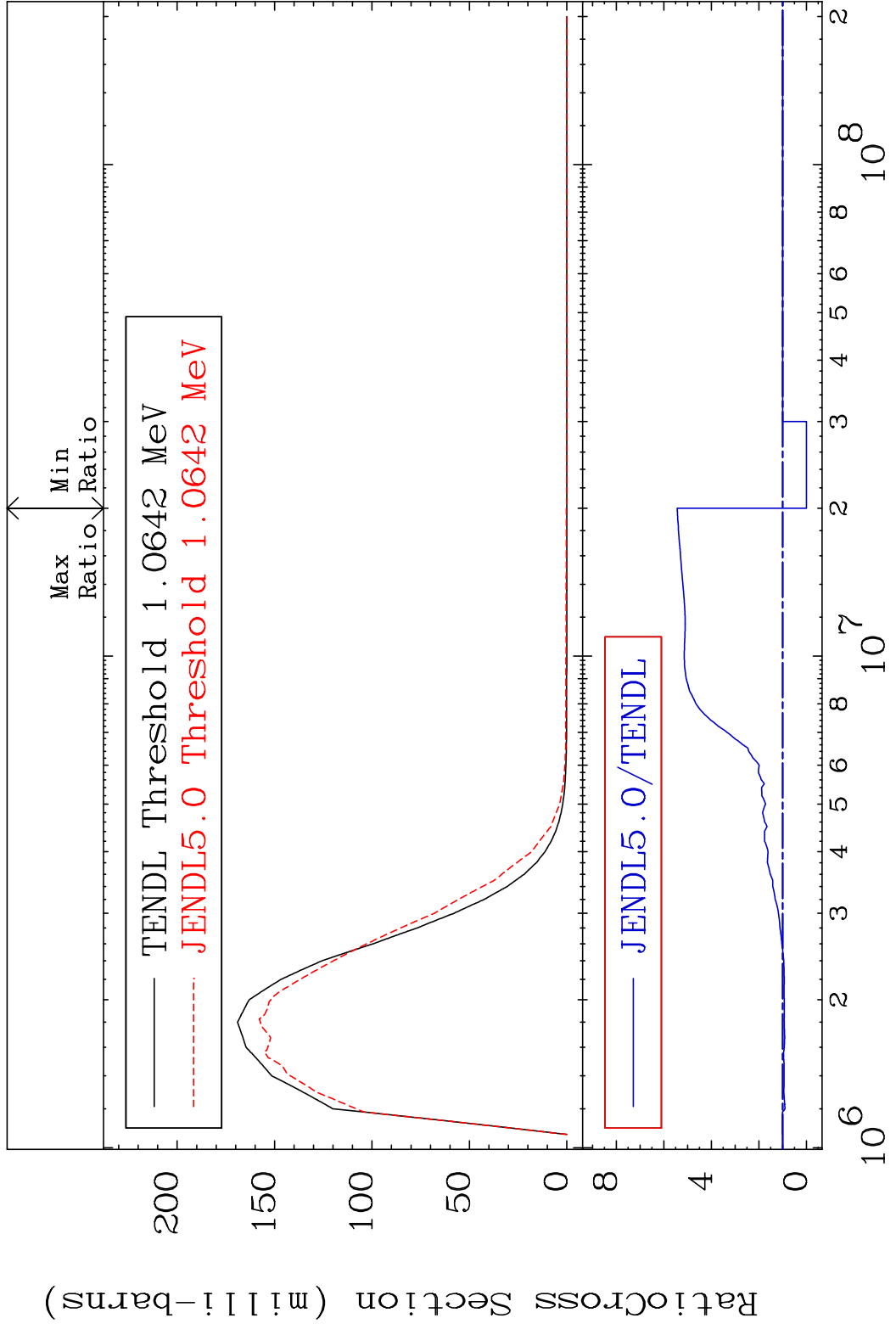


MAT 6137 MT= 52 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 371.3 %



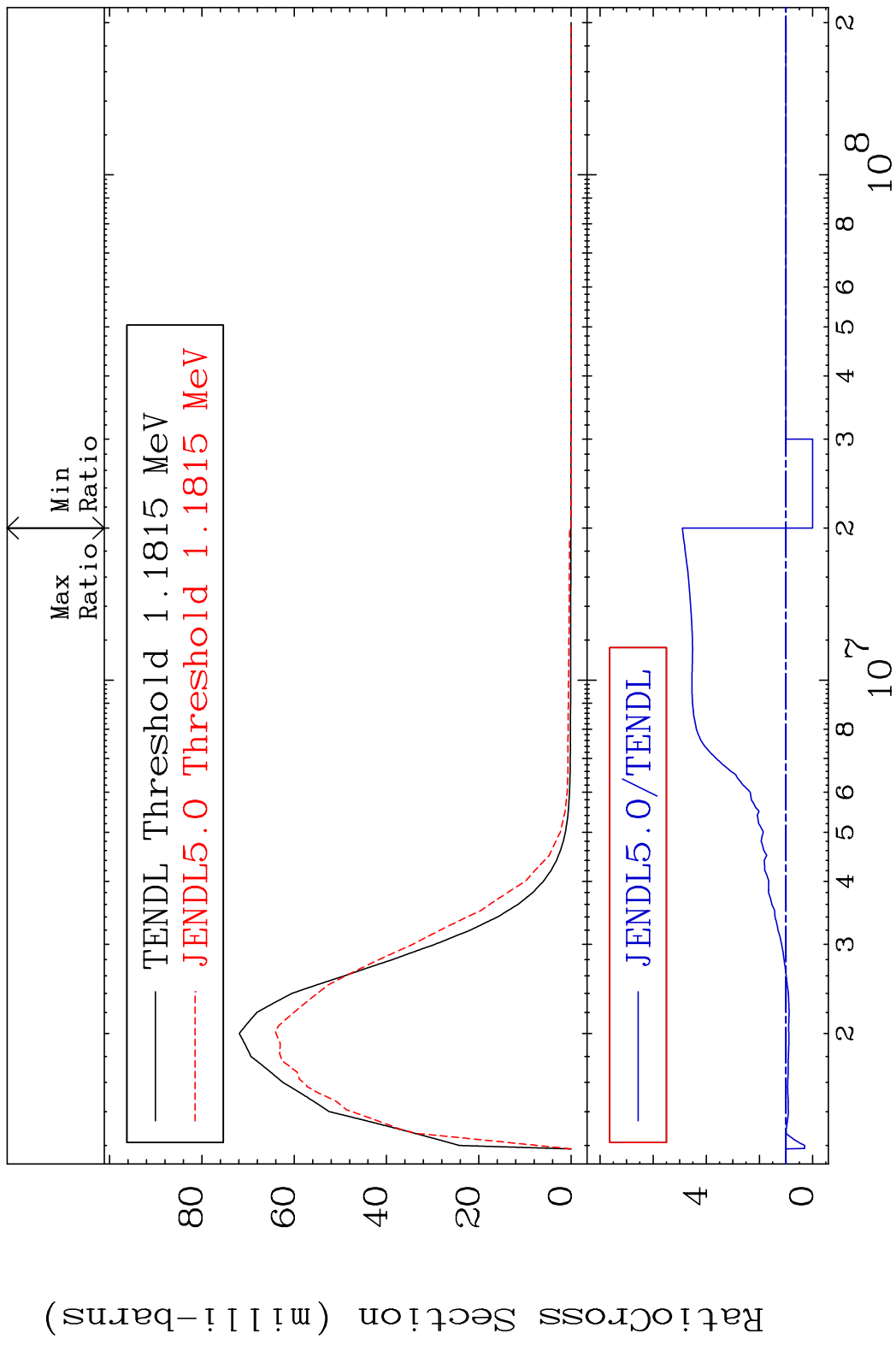
12 Incident Energy (eV) 61-Pm-143

MAT 6137 MT= 53 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 443.7 %

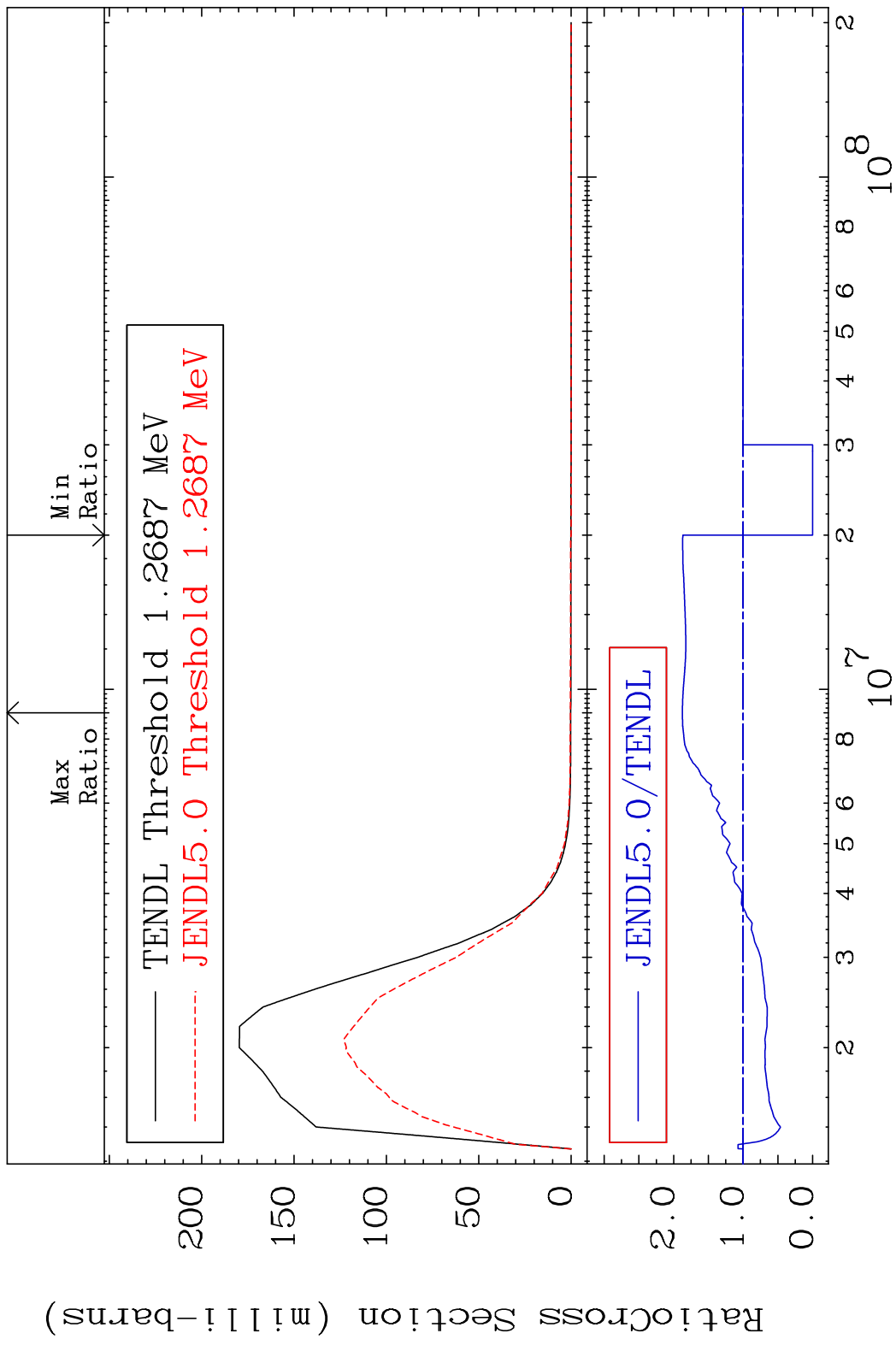


13 61-Pm-143

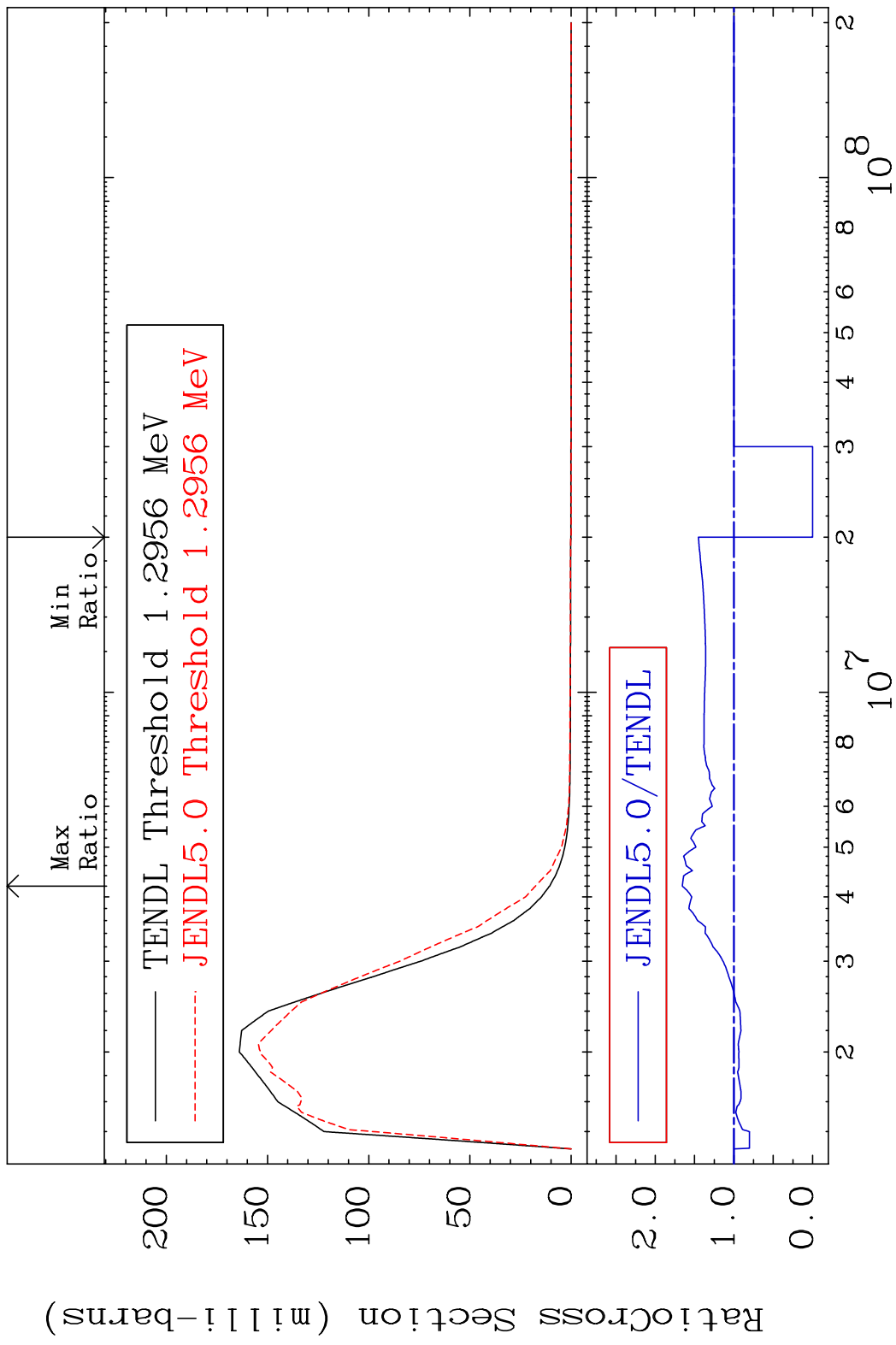
MAT 6137 MT= 54 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 390.0 %



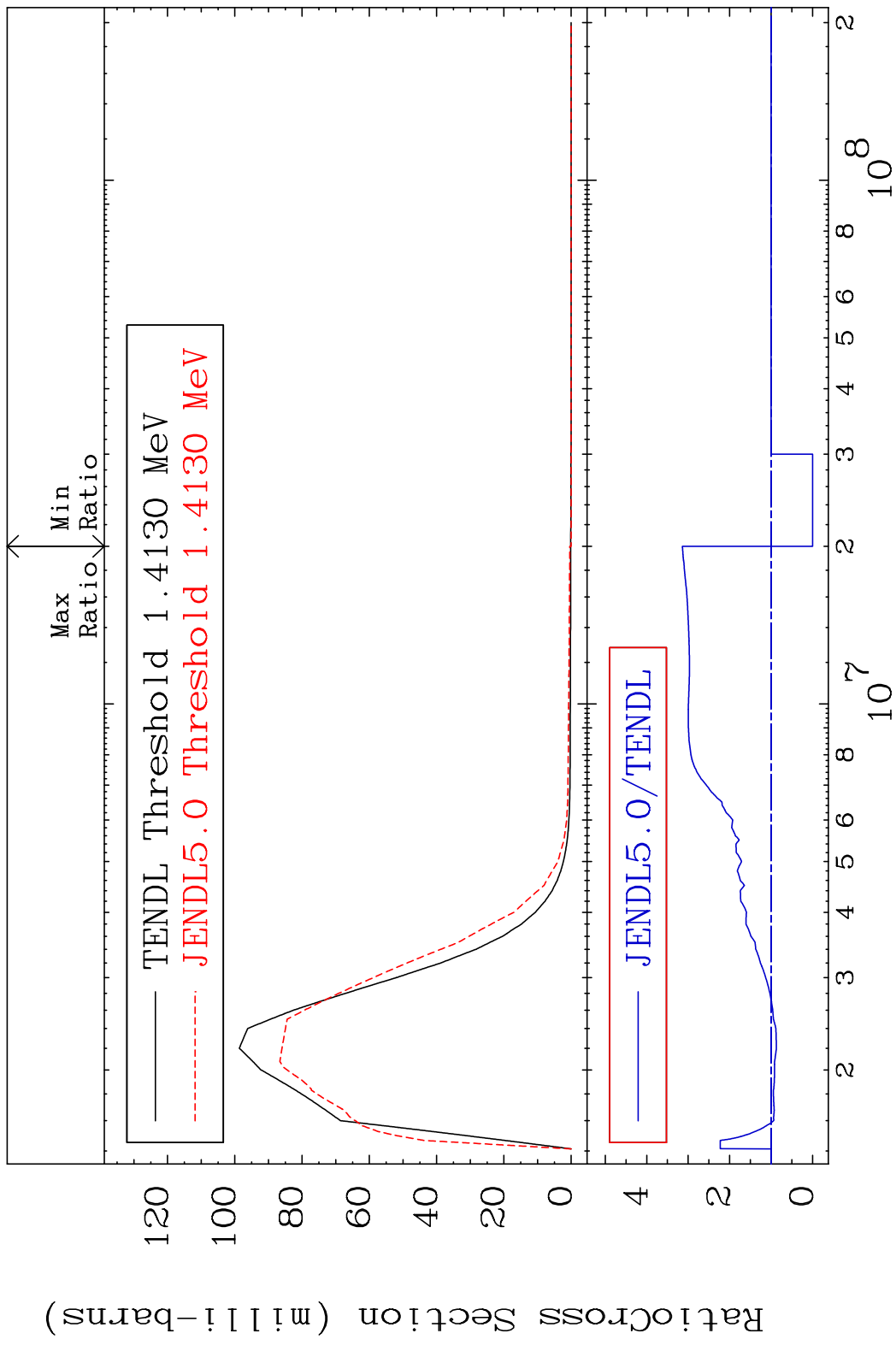
MAT 6137 MT= 55 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 87.48 %



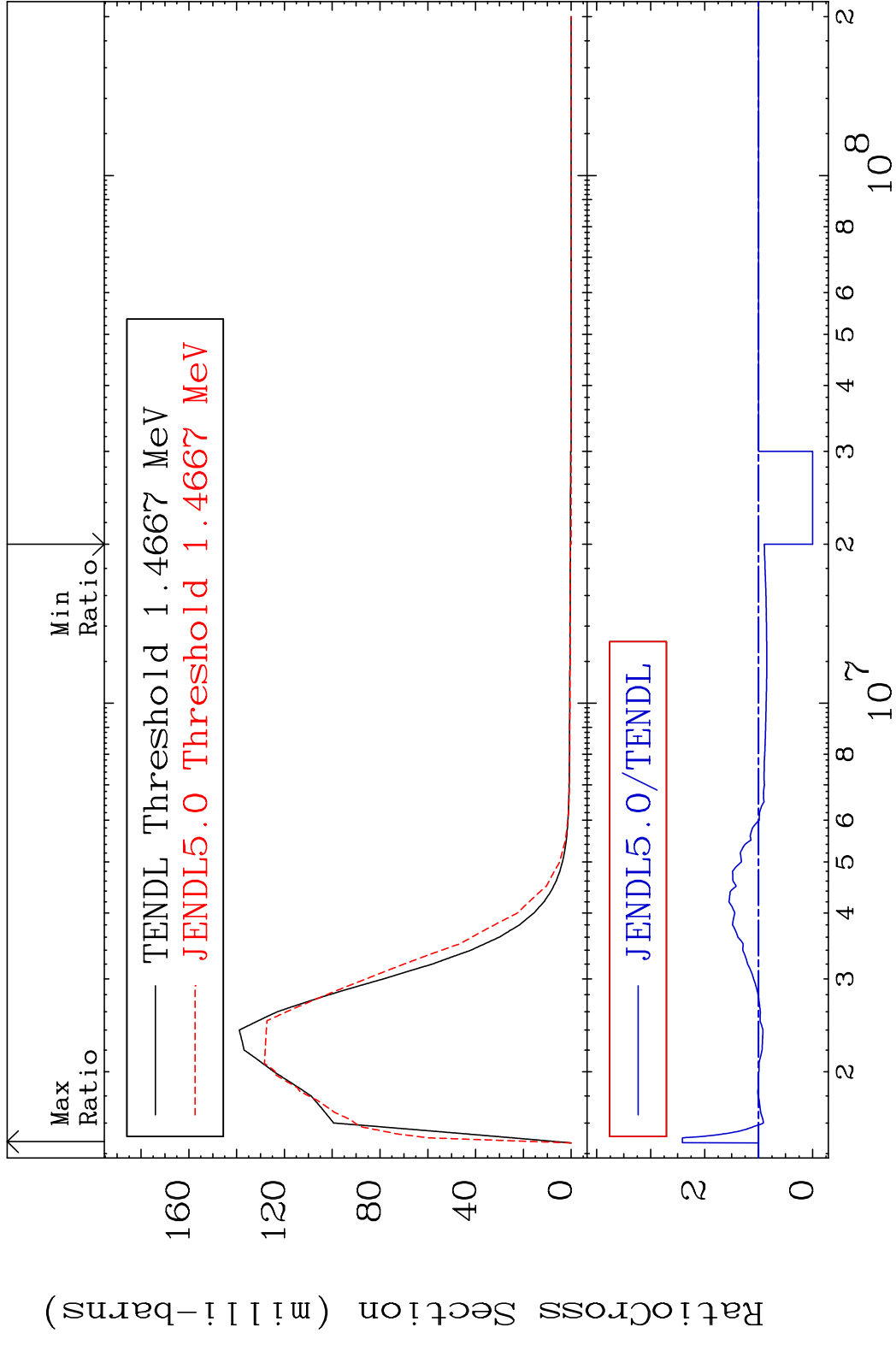
MAT 6137 MT= 56 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 65.55 %



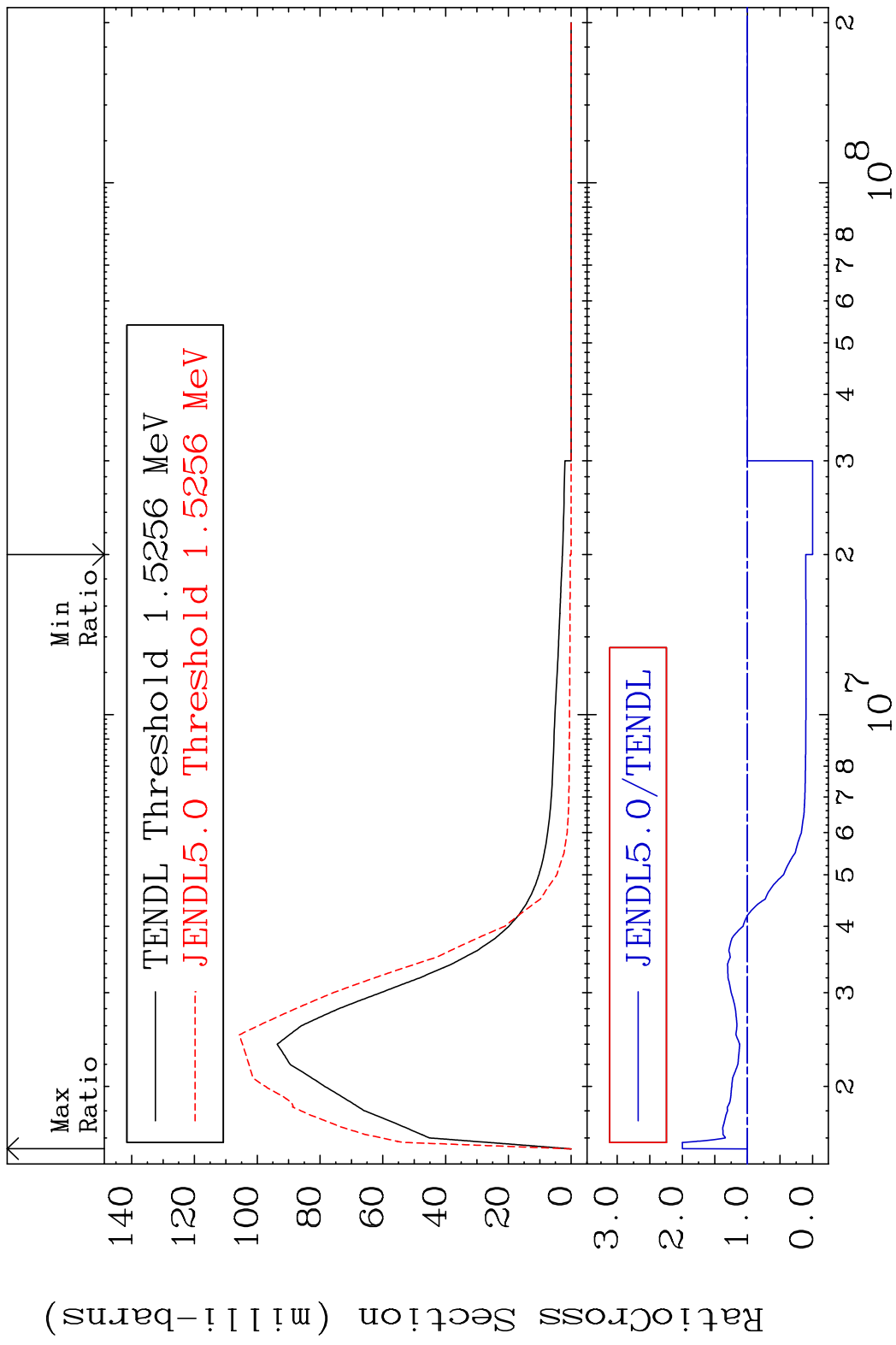
MAT 6137 MT= 57 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 214.0 %



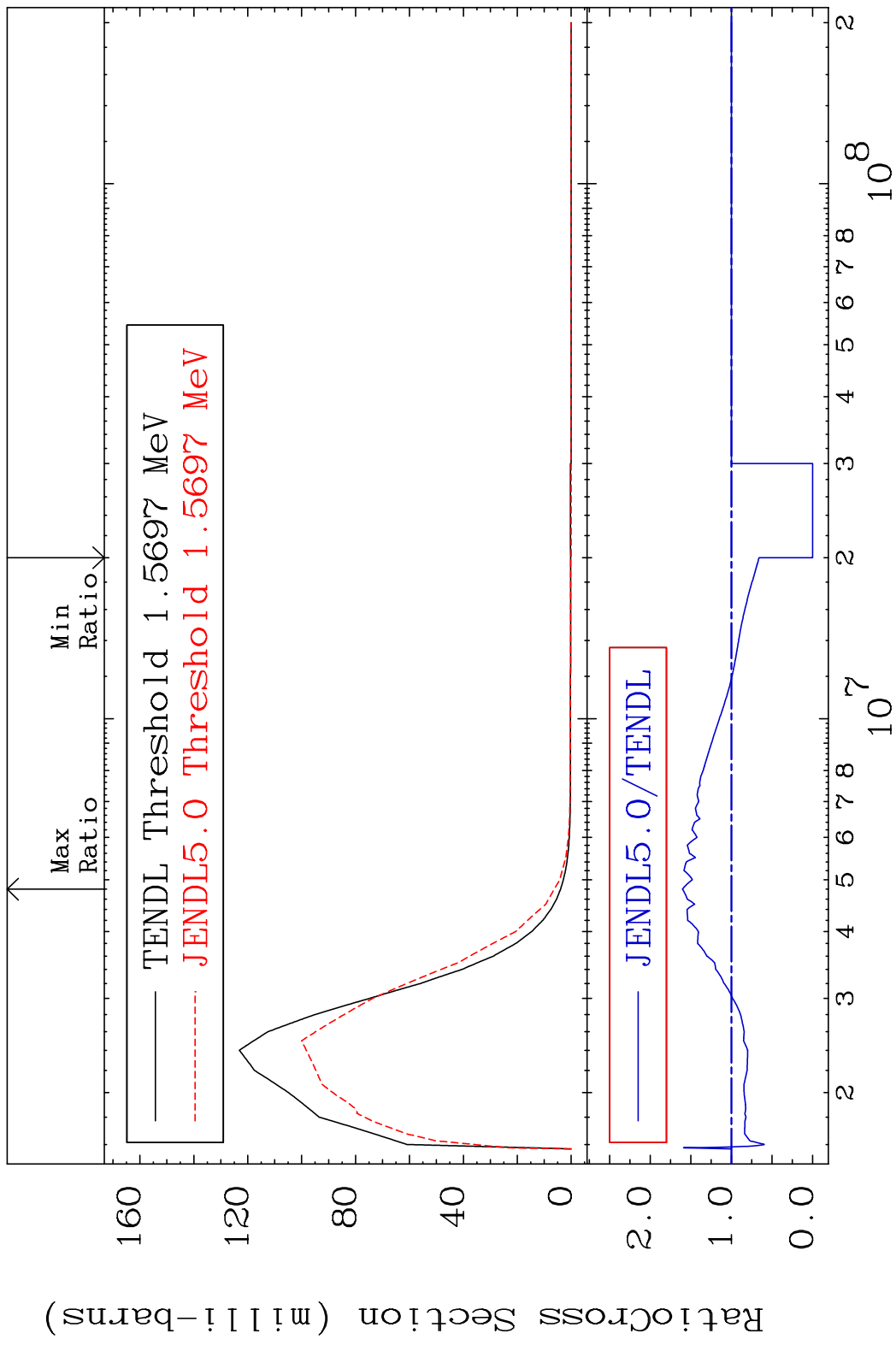
MAT 6137 MT= 58 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 141.3 %



MAT 6137 MT= 59 (n,n') Level 61-Pm-143
 Cross Section -100.0 To 99.95 %

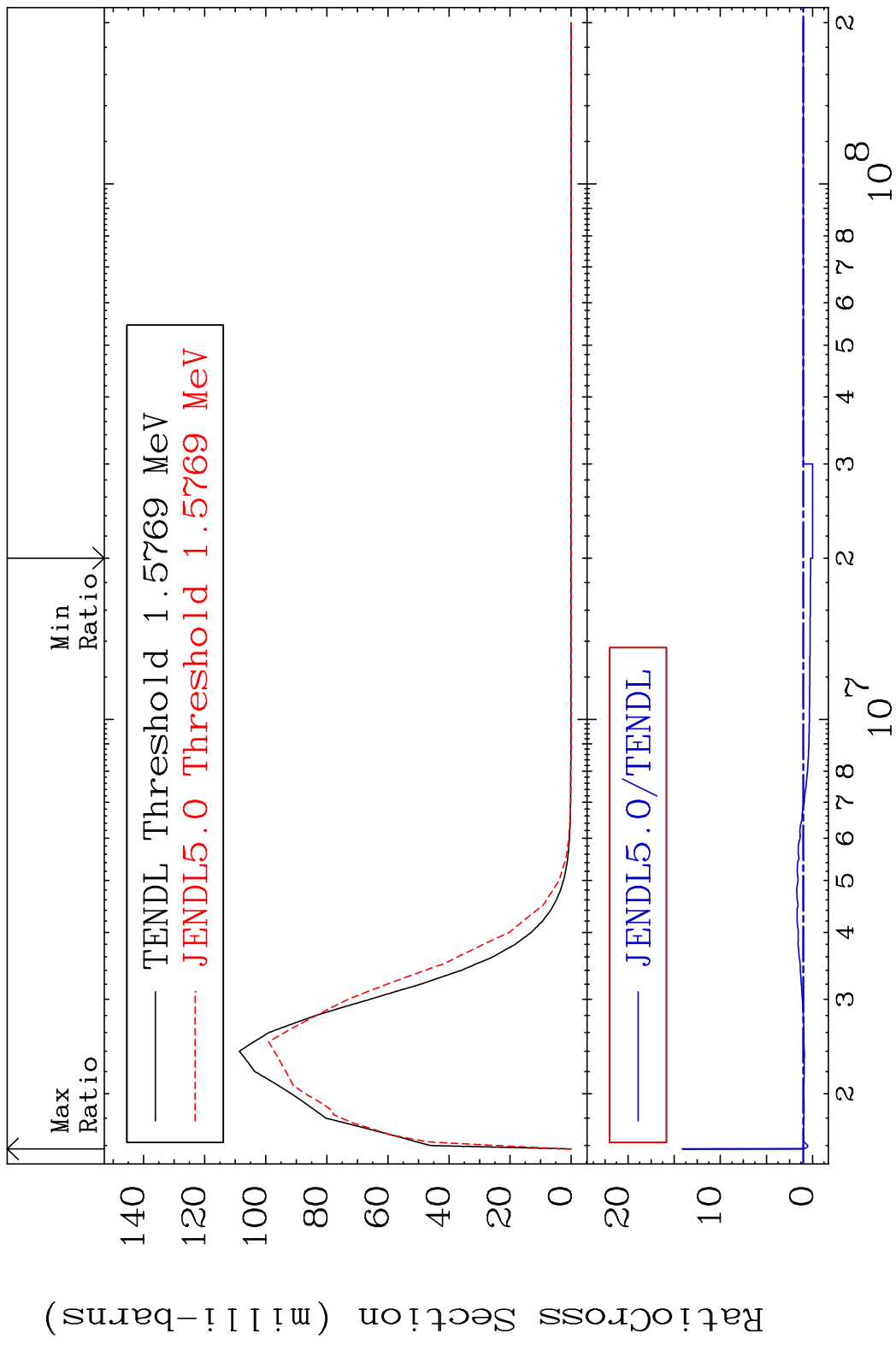


MAT 6137 MT= 60 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 60.33 %

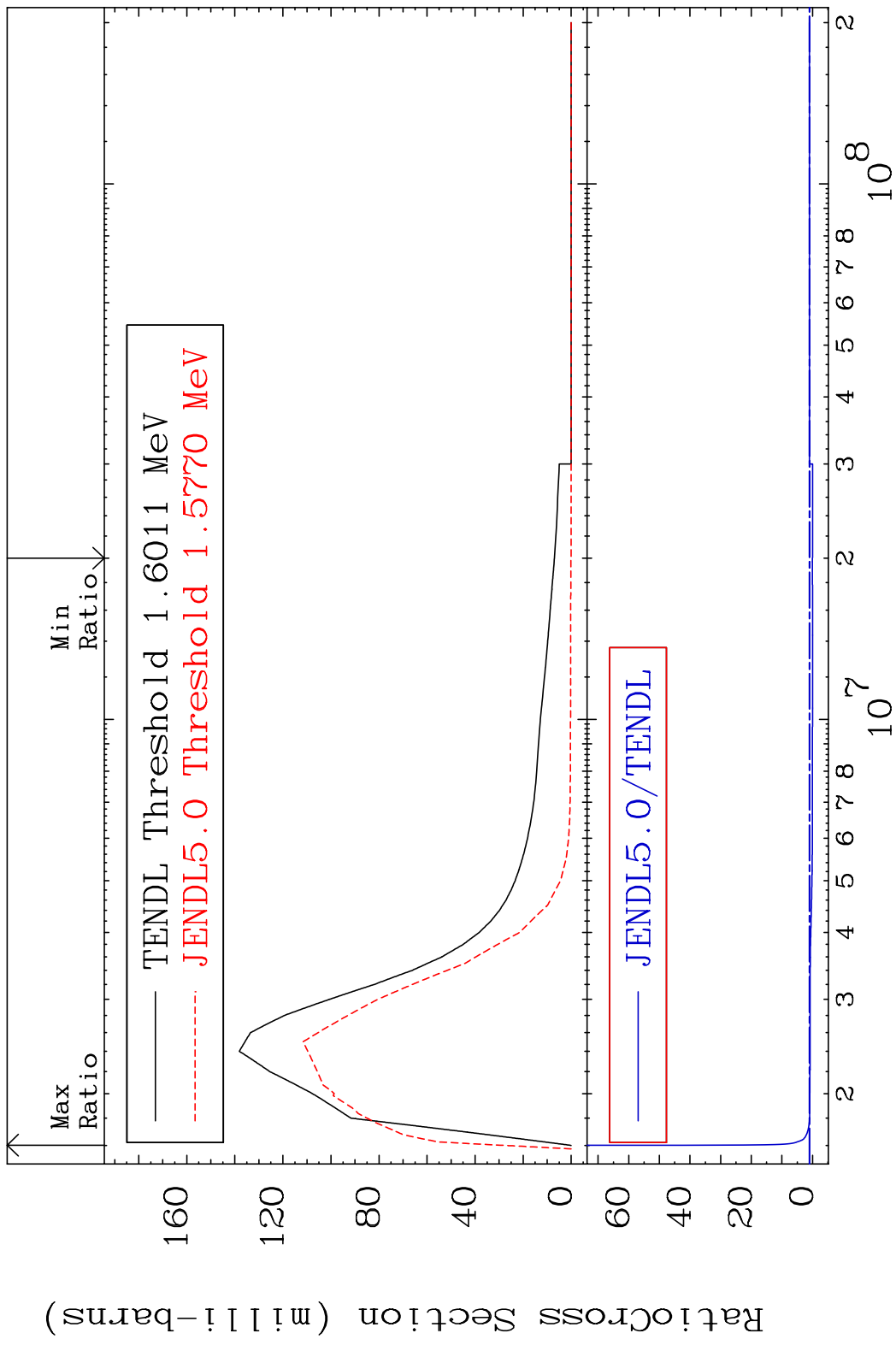


20 20 61-Pm-143

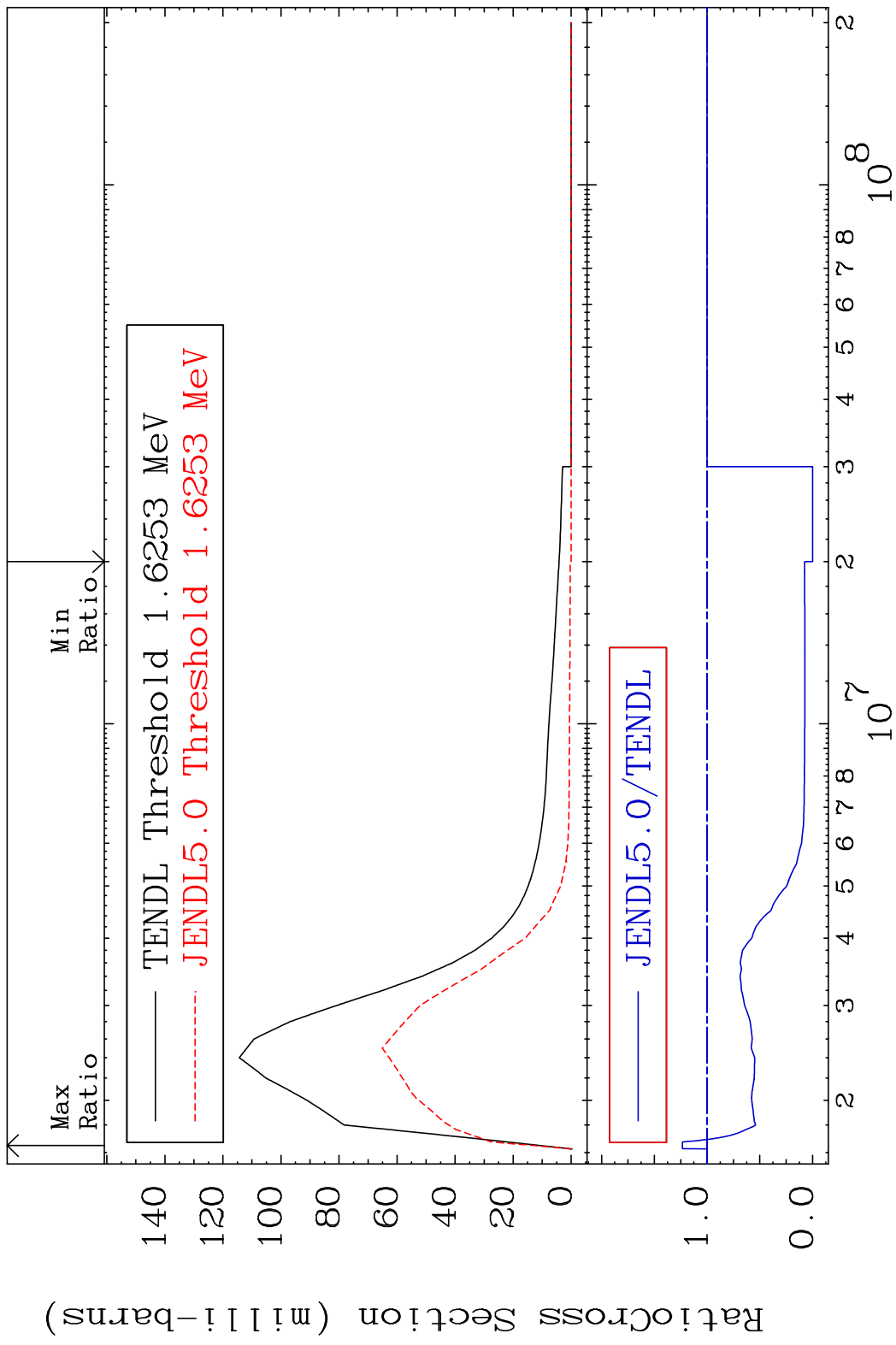
MAT 6137 MT= 61 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 1311. %



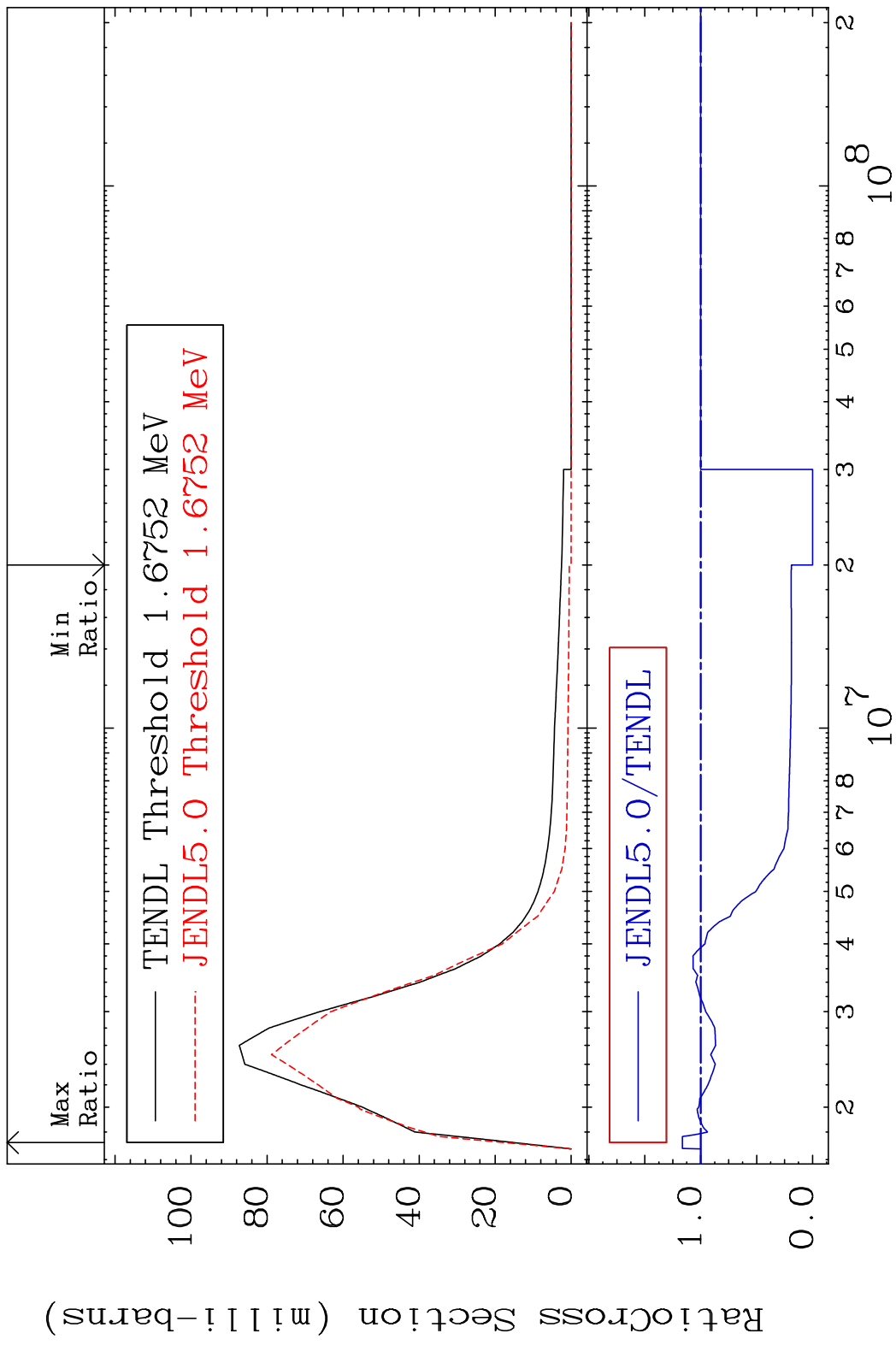
MAT 6137 MT= 62 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 4150. %



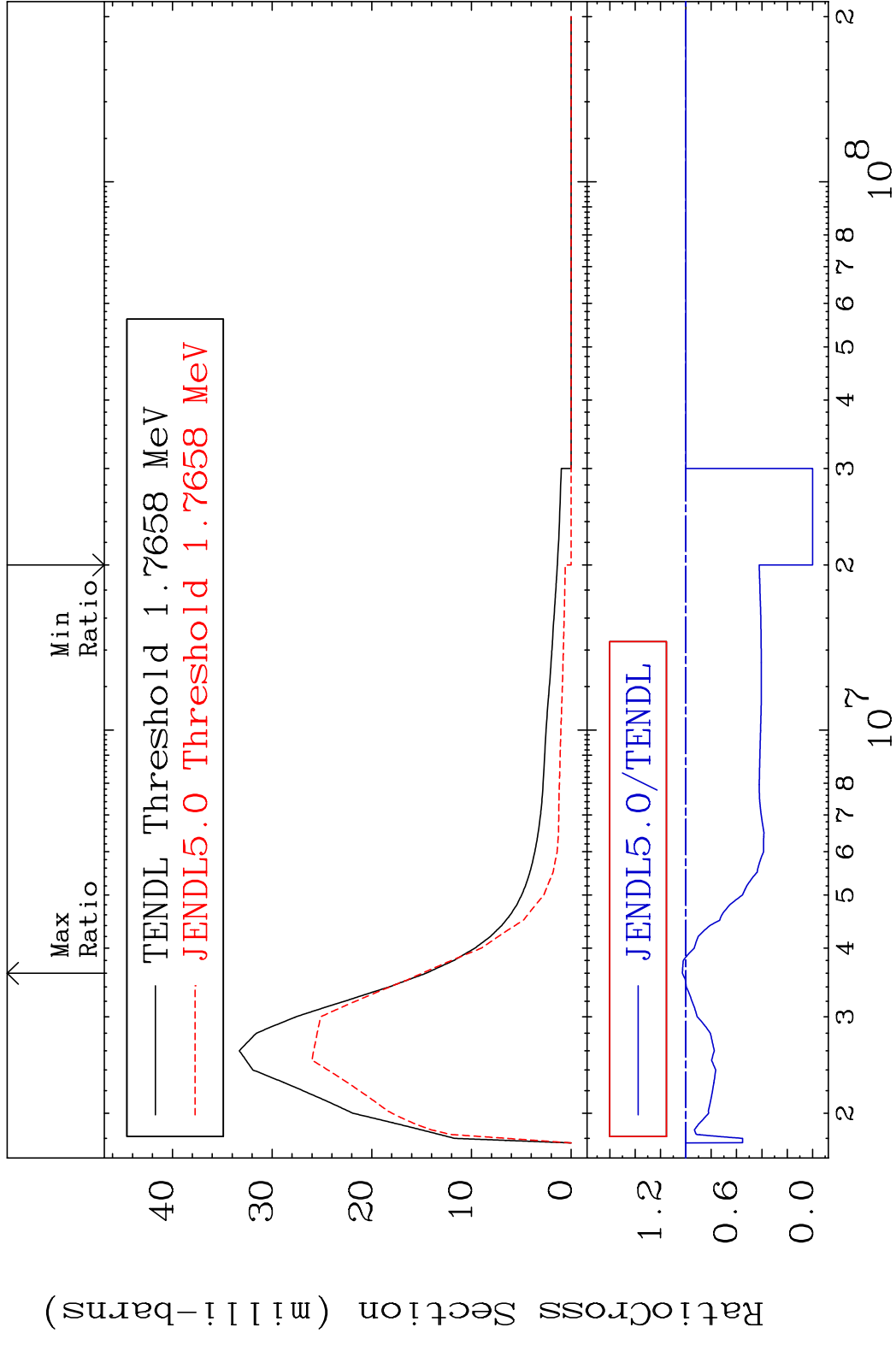
MAT 6137 MT= 63 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 23.42 %



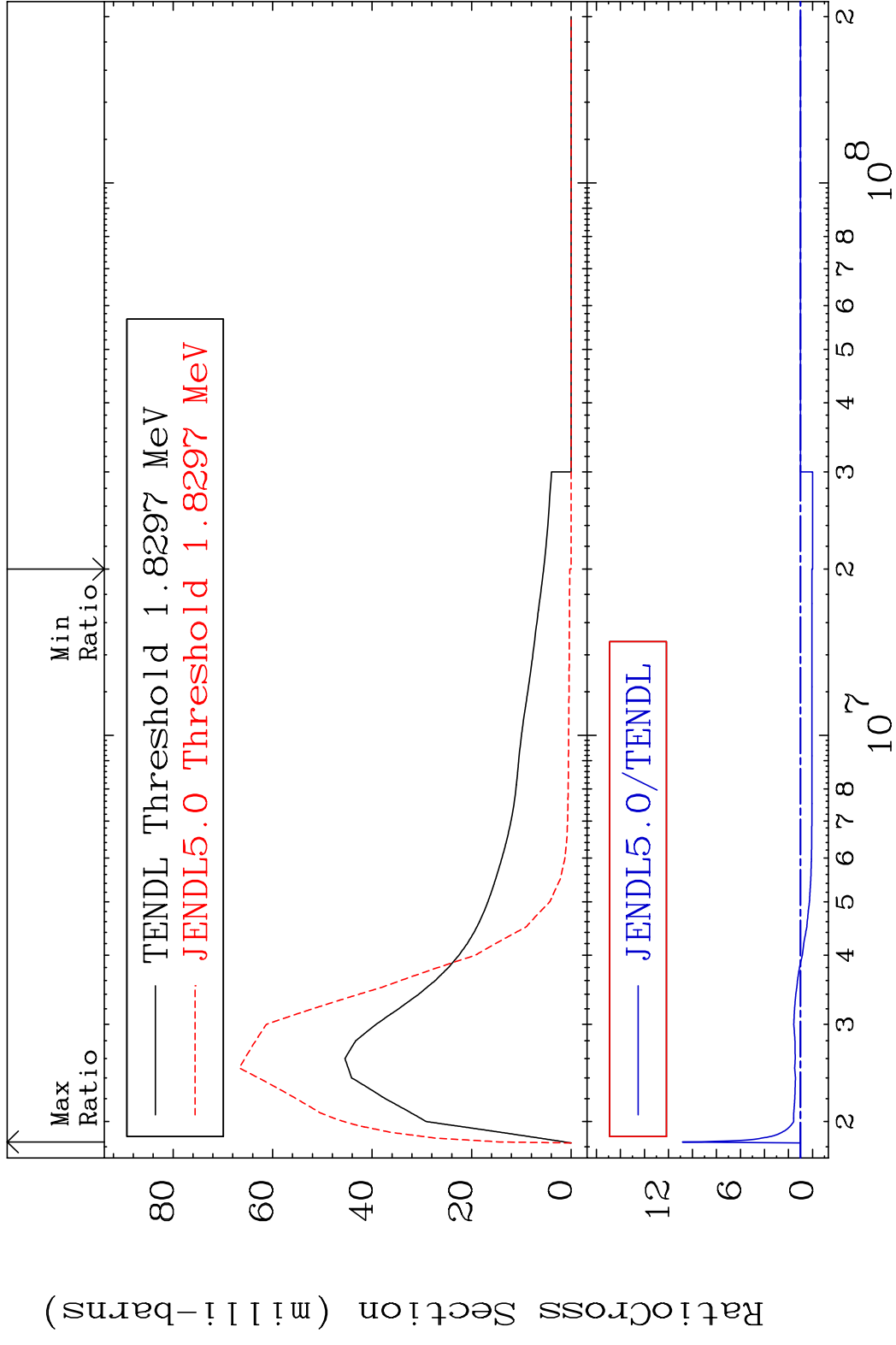
MAT 6137 MT= 64 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 16.45 %



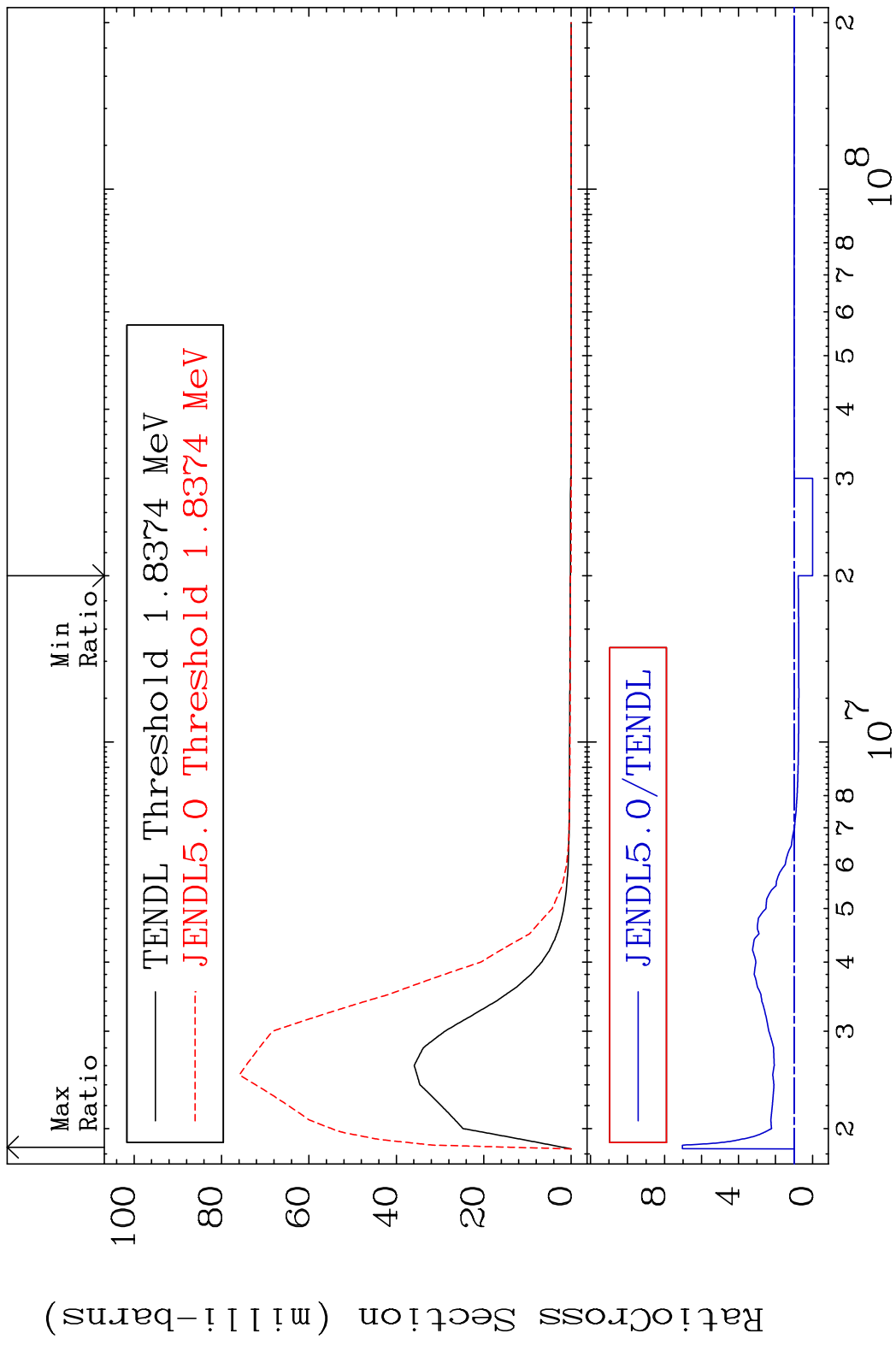
MAT 6137 MT= 65 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 2.751 %



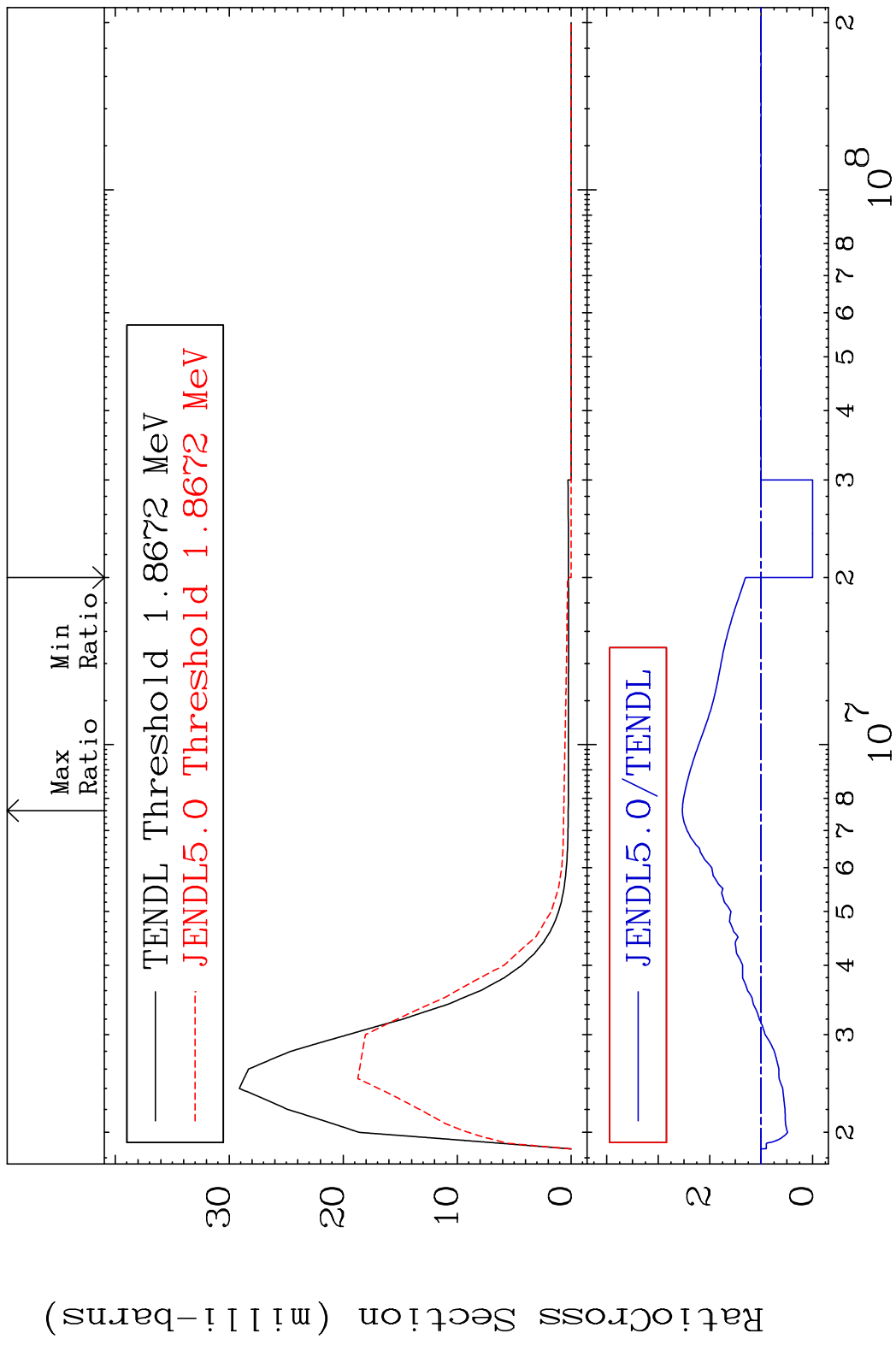
MAT 6137 MT= 66 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 984.1 %



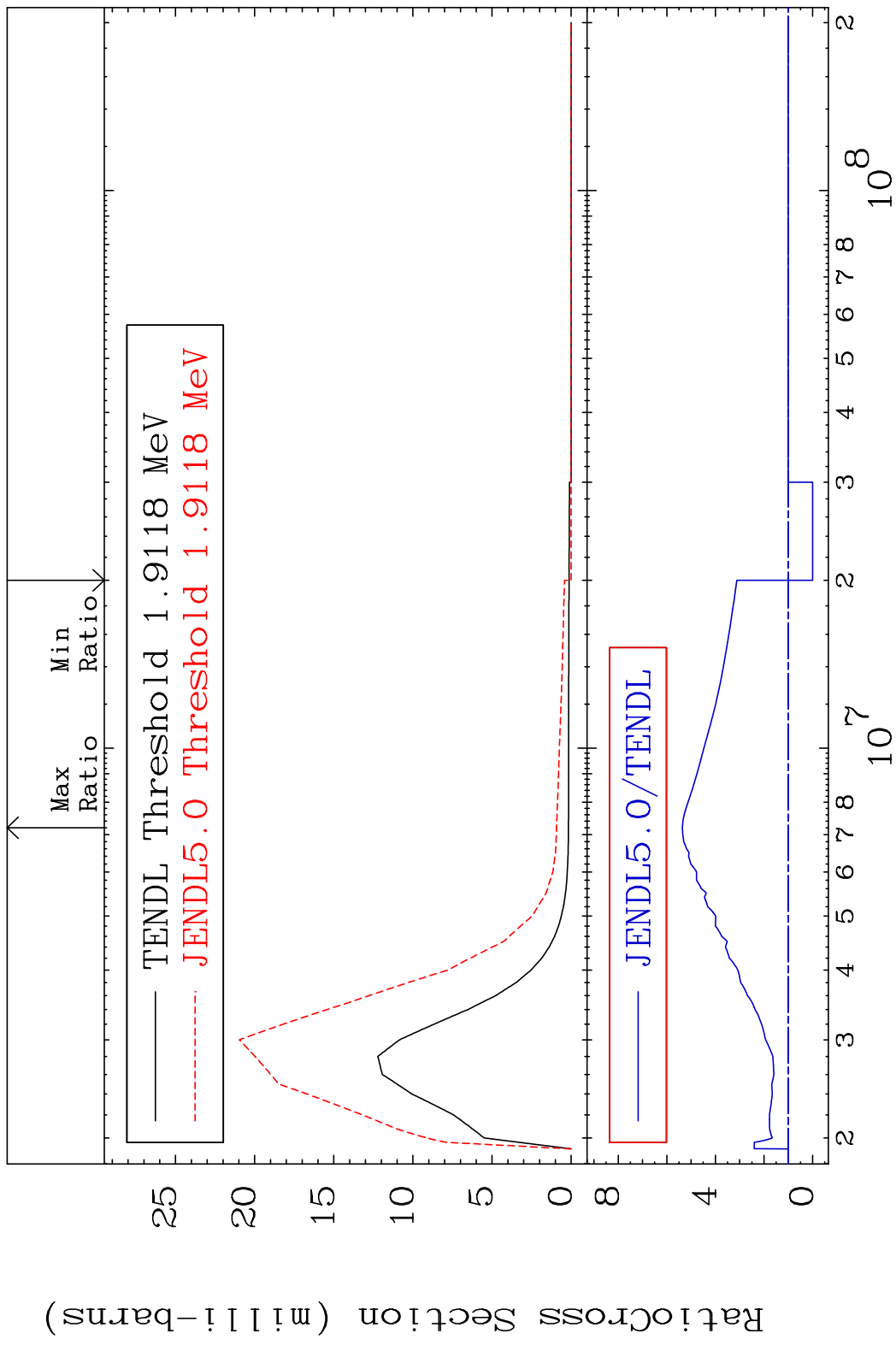
MAT 6137 MT= 67 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 603.6 %



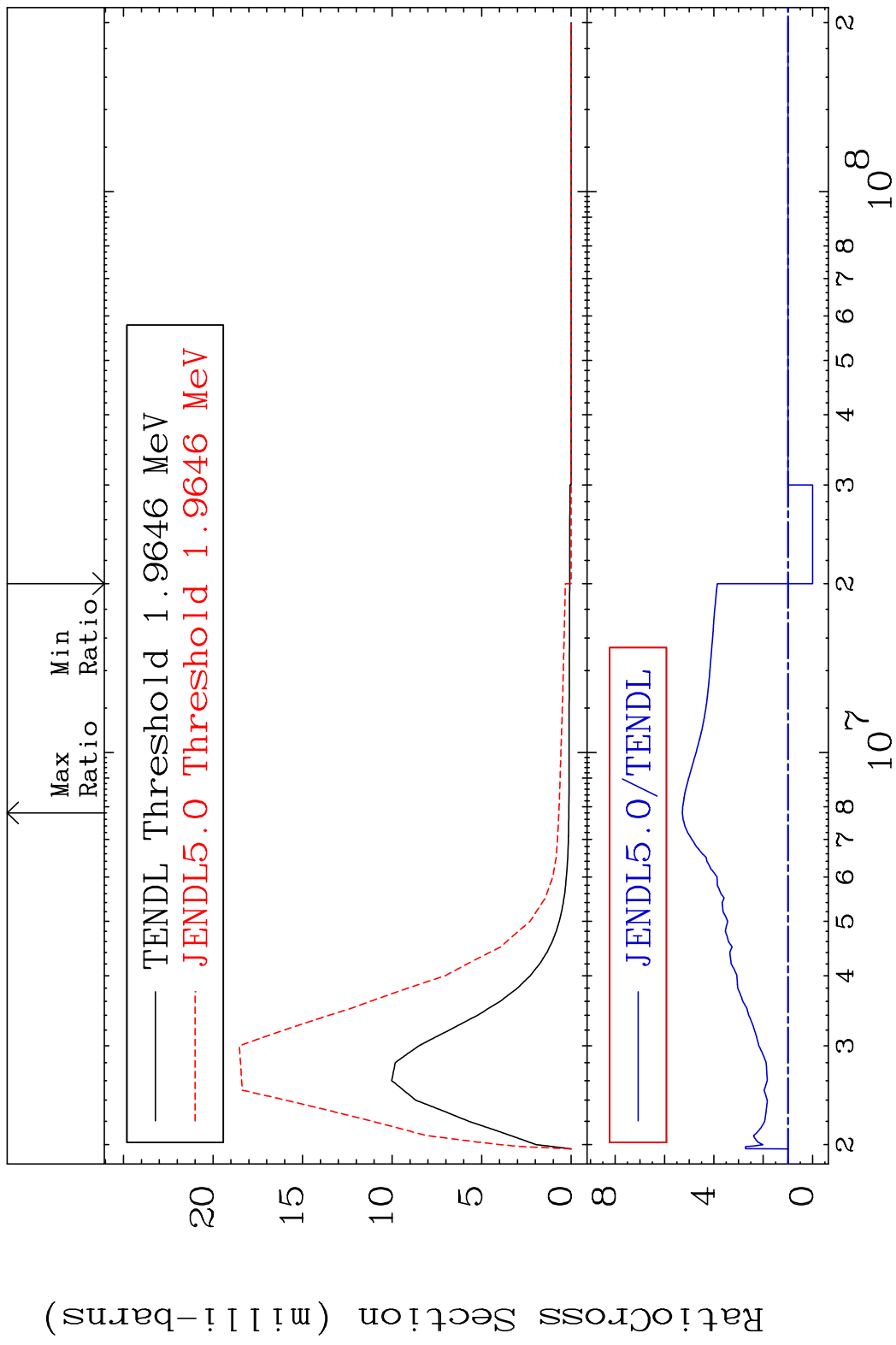
MAT 6137 MT= 68 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 153.1 %



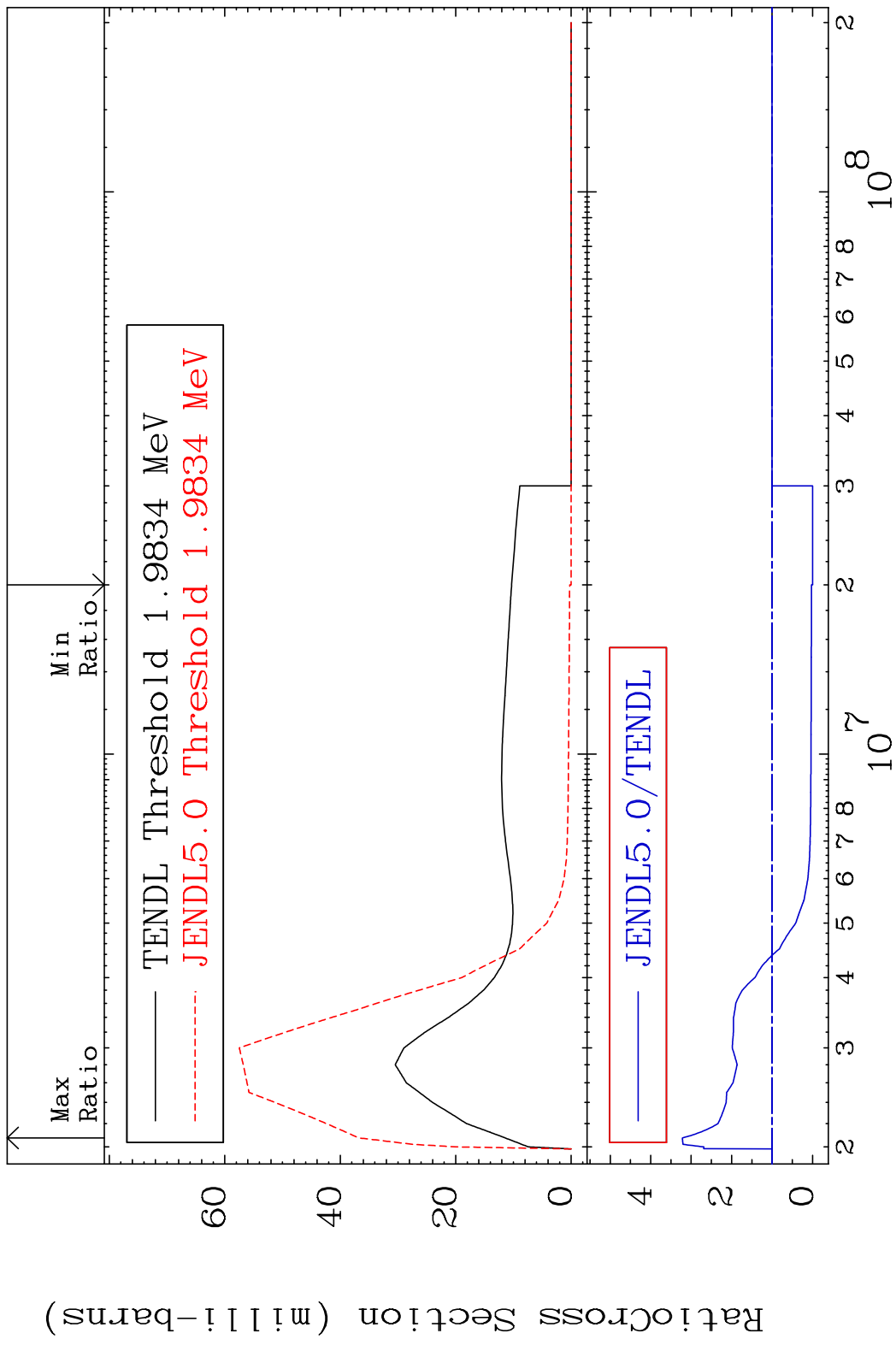
MAT 6137 MT= 69 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 436.0 %



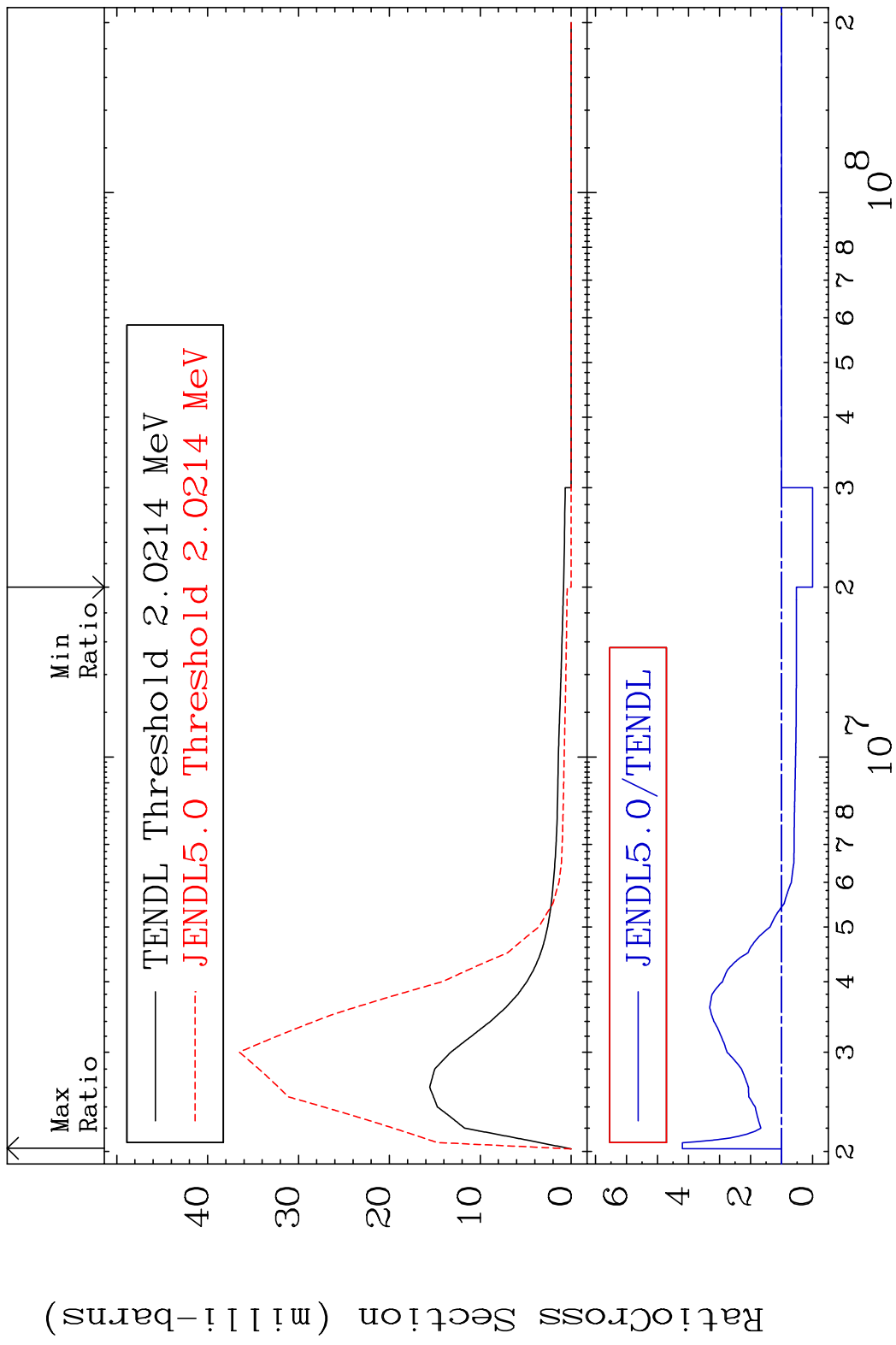
MAT 6137 MT= 70 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 427.8 %



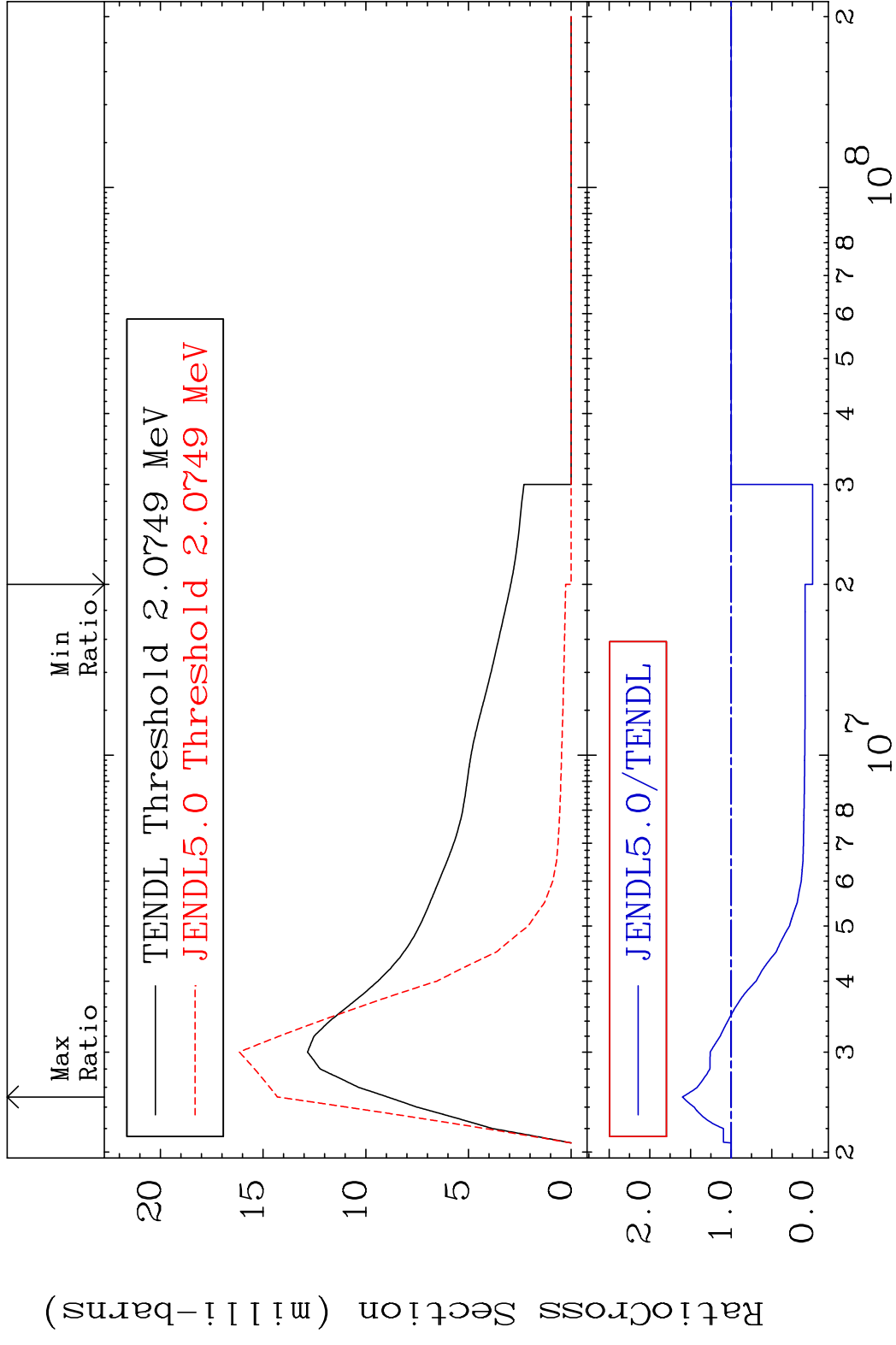
MAT 6137 MT= 71 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 221.8 %



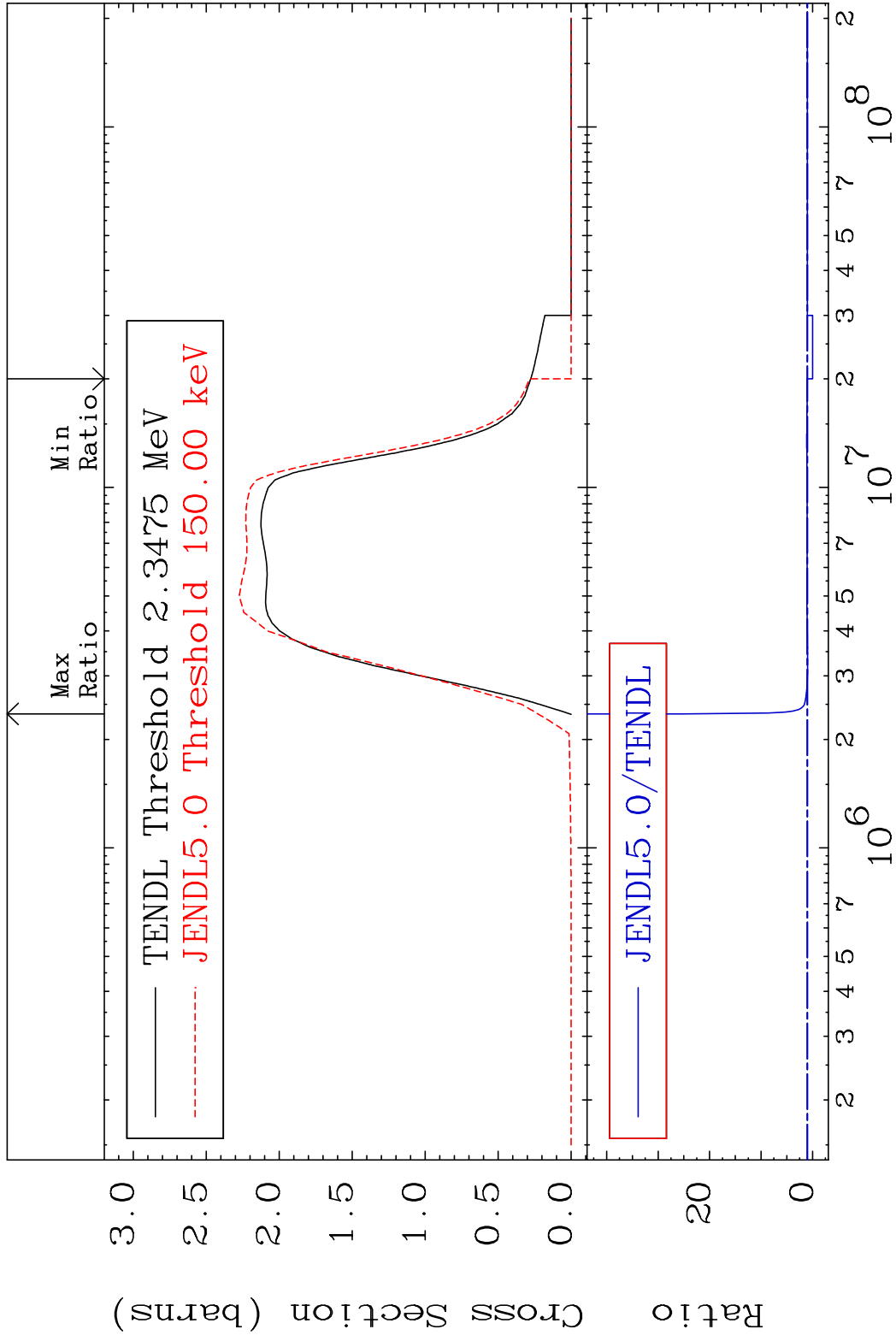
MAT 6137 MT= 72 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 319.7 %



MAT 6137 MT= 73 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 60.04 %



Cross Section -100.0 To 2429. %

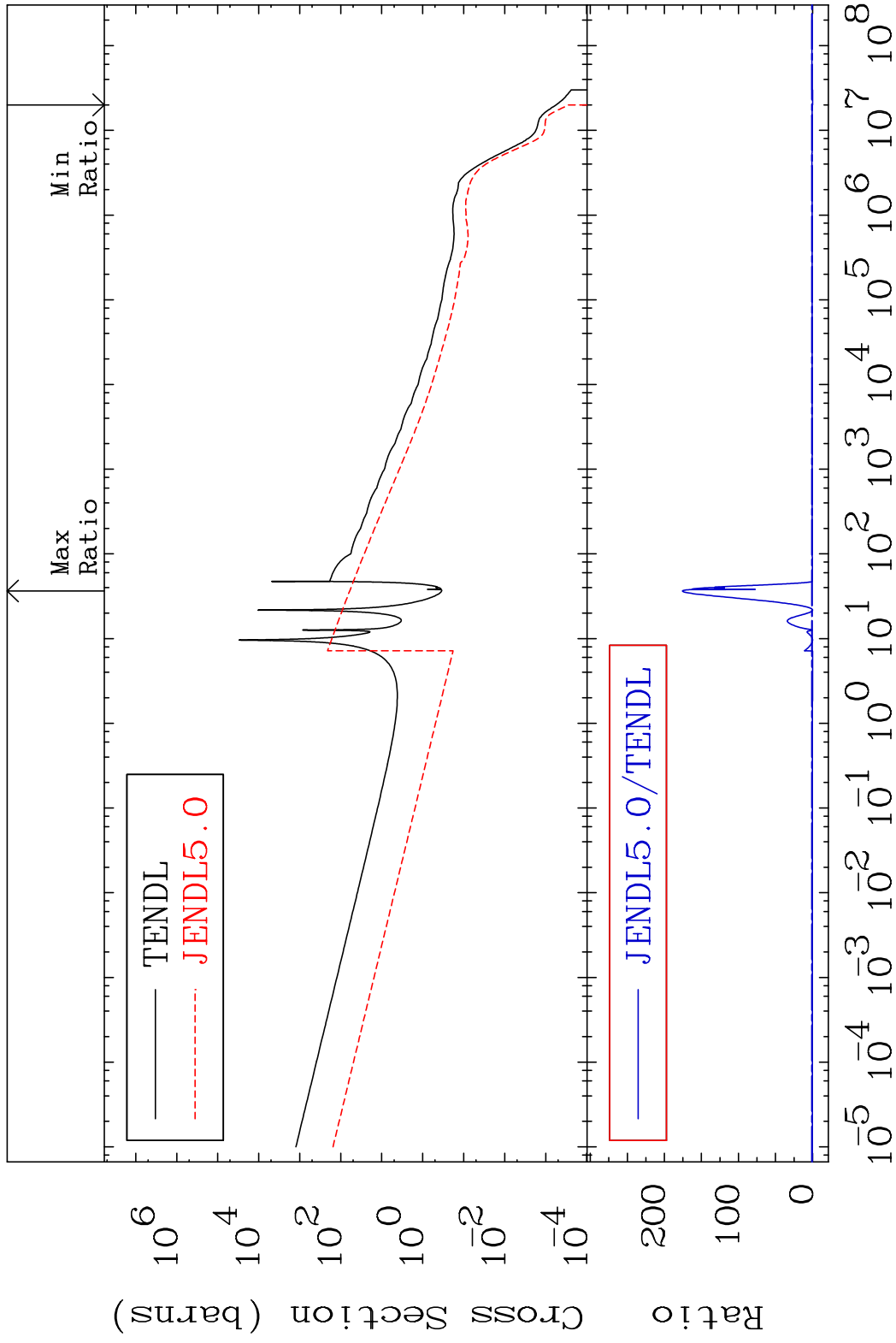


MAT 6137

(n, γ)

61-Pm-143

Cross Section -100.0 To 9999. %



35

Incident Energy (eV)

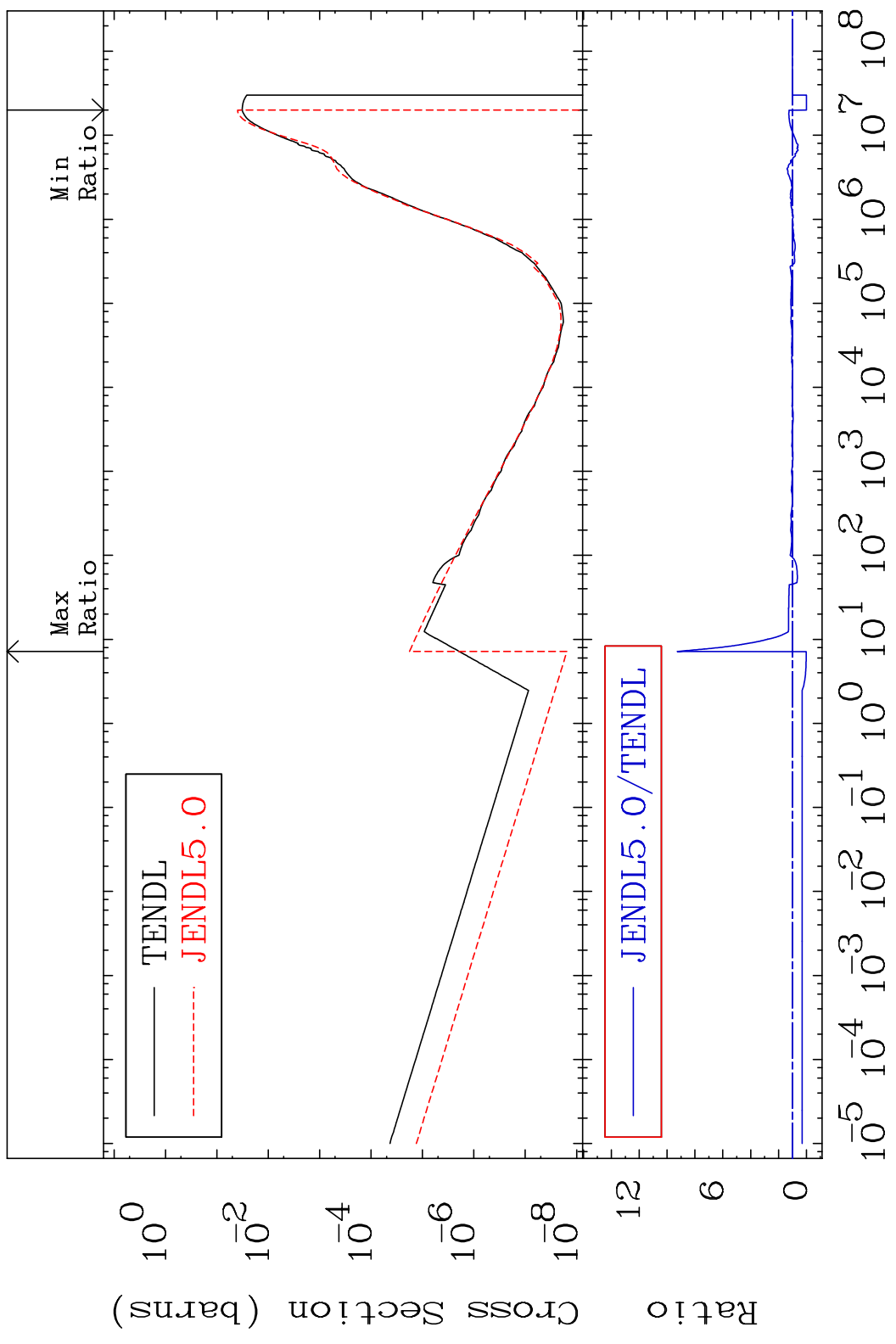
61-Pm-143

MAT 6137

(n, p)

61-Pm-143

Cross Section -100.0 To 827.5 %

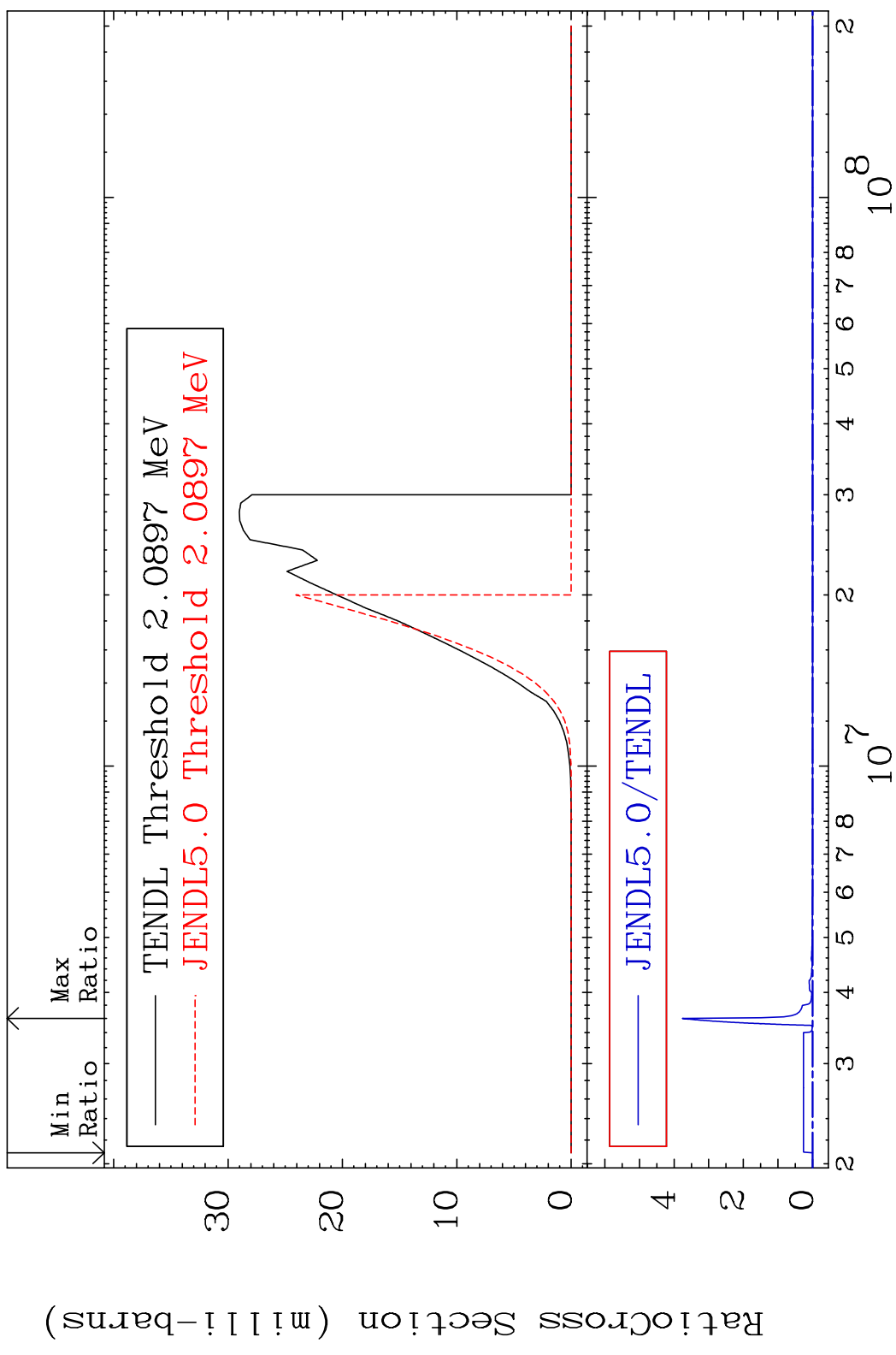


MAT 6137

(n, d)

61-Pm-143

Cross Section -100.0 To 9999. %

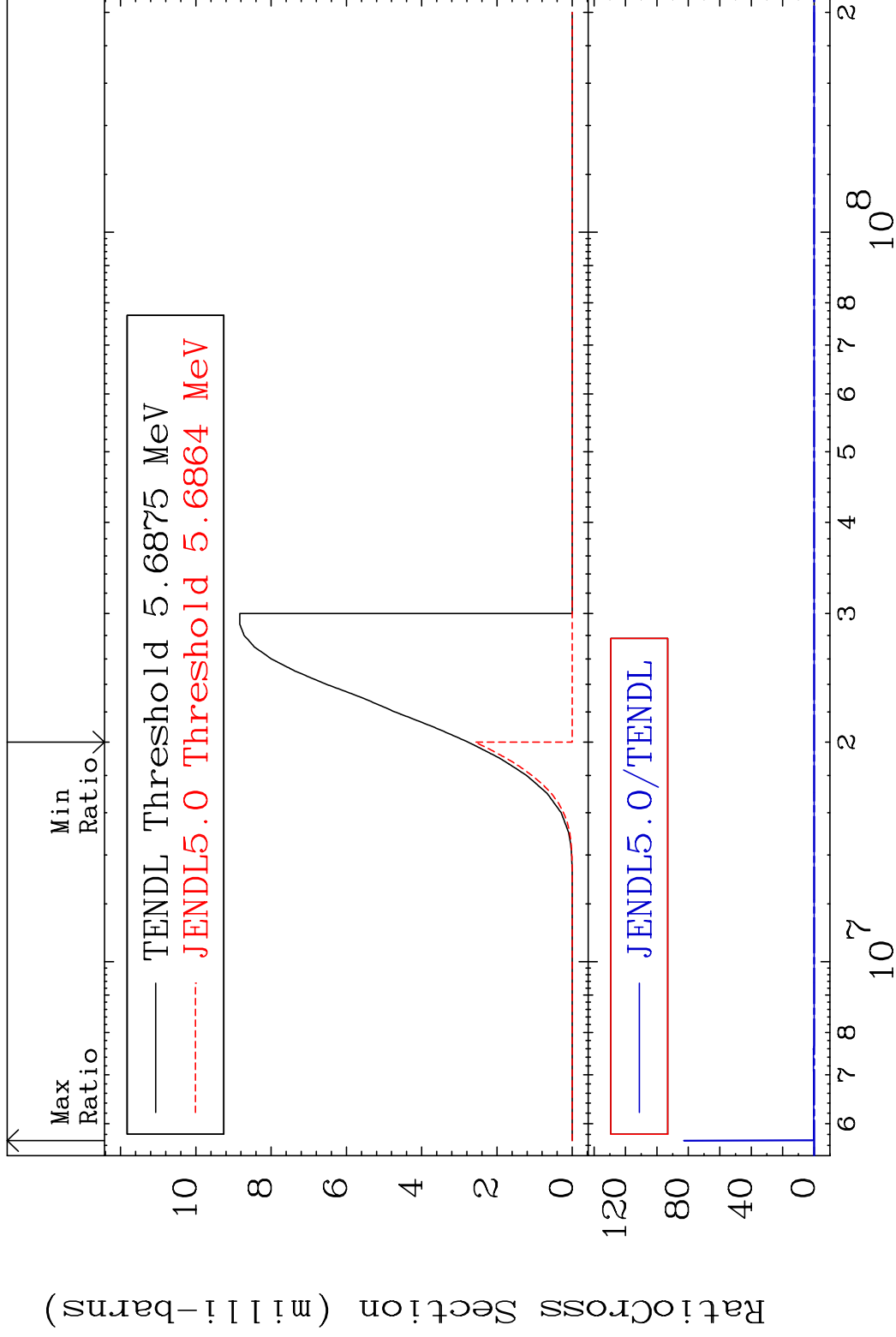


MAT 6137

(n, t)

61-Pm-143

Cross Section -100.0 To 9999. %

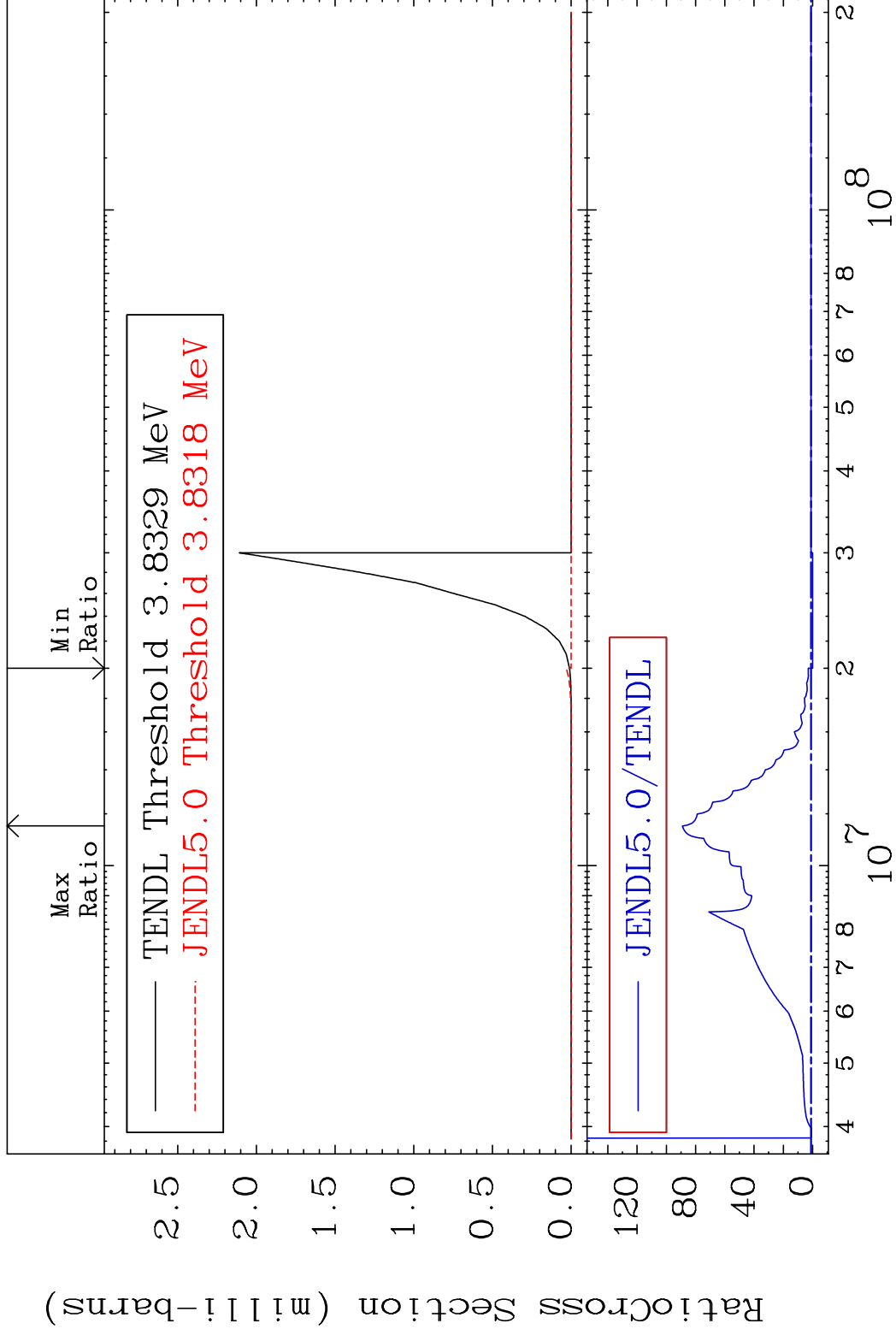


38

Incident Energy (eV)

61-Pm-143

Cross Section -100.0 To 8805. %

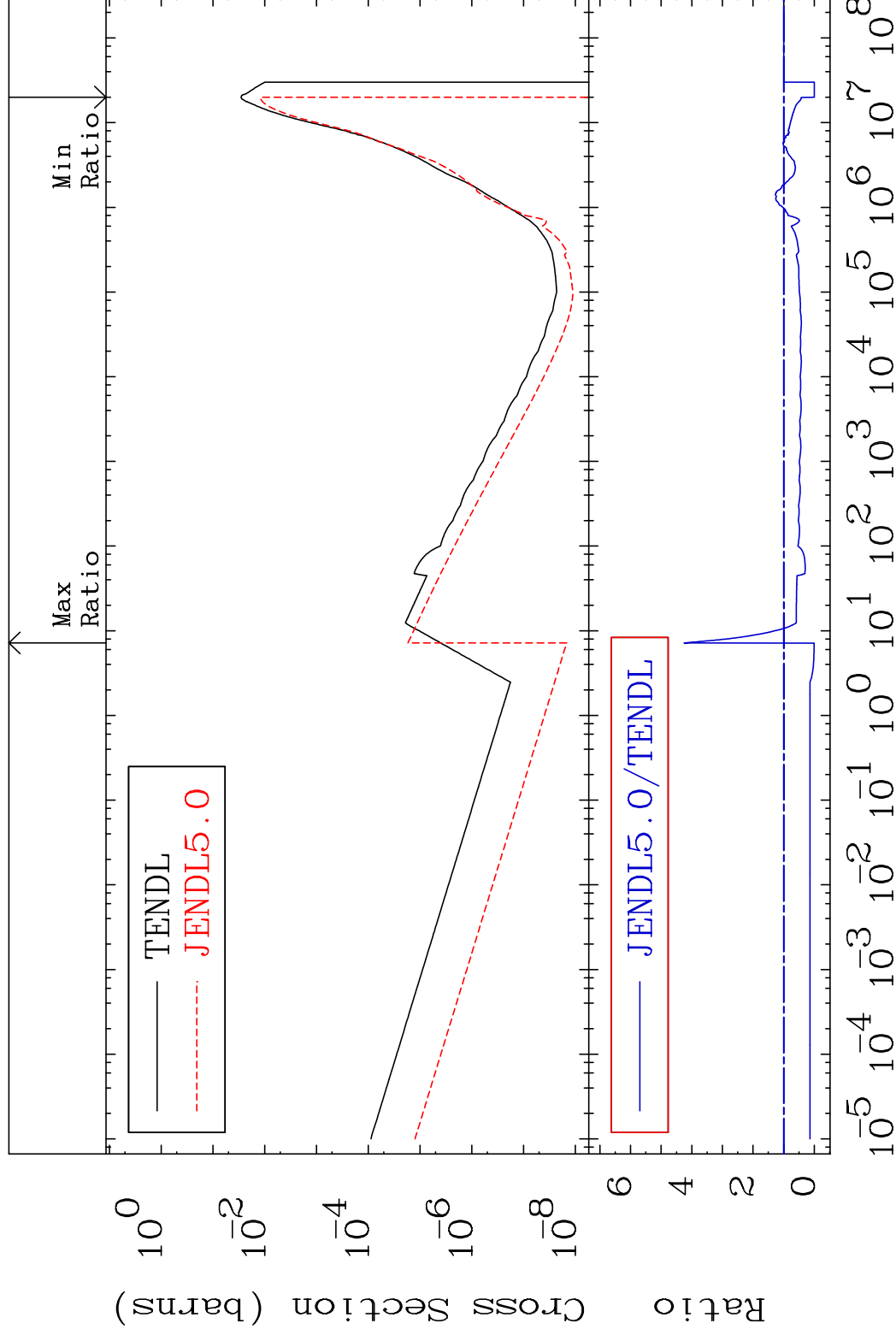


MAT 6137

(n, α)

61-Pm-143

Cross Section -100.0 To 325.2 %



40

Incident Energy (eV)

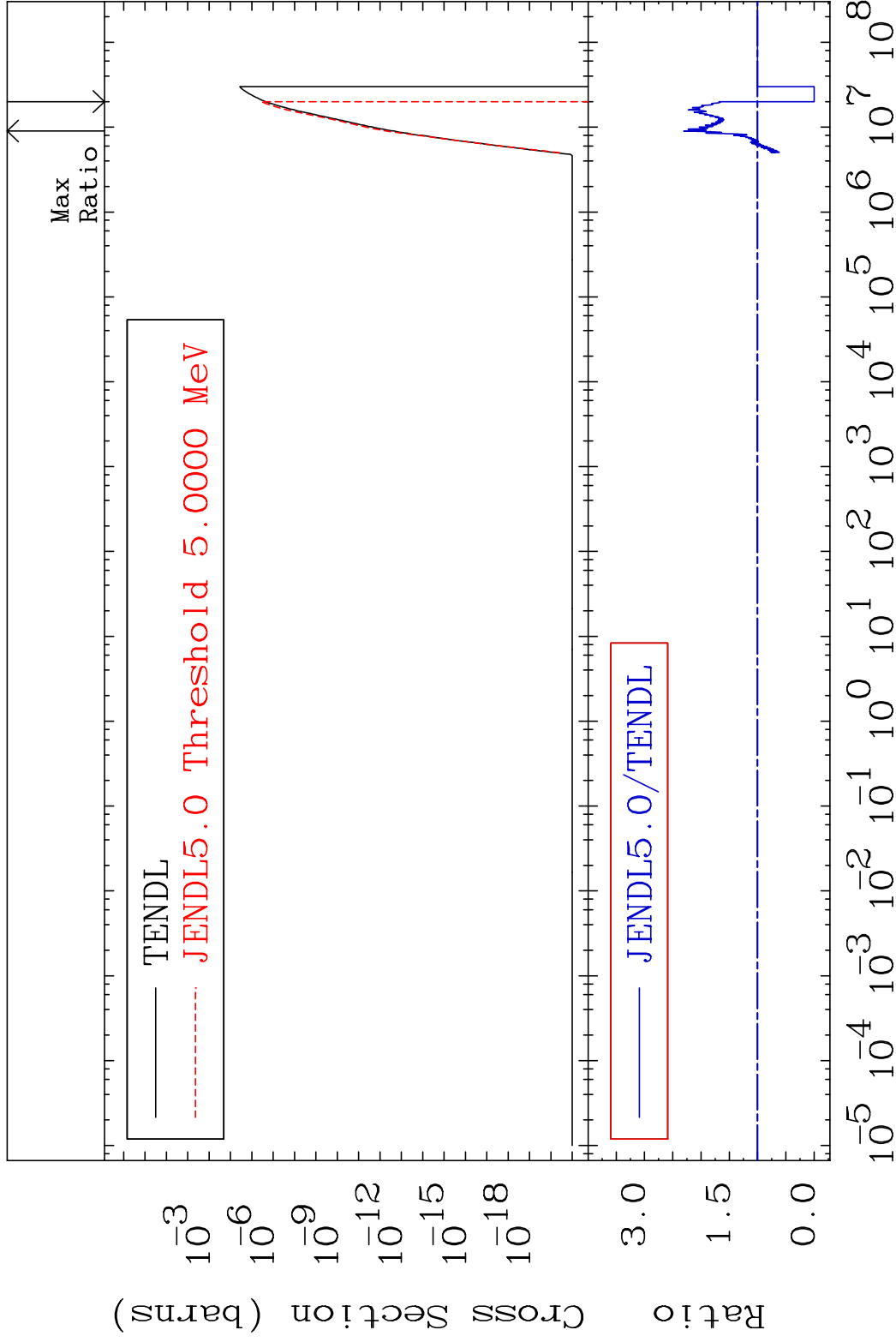
61-Pm-143

MAT 6137

(n,p) α

61-Pm-143

Cross Section -100.0 To 130.7 %



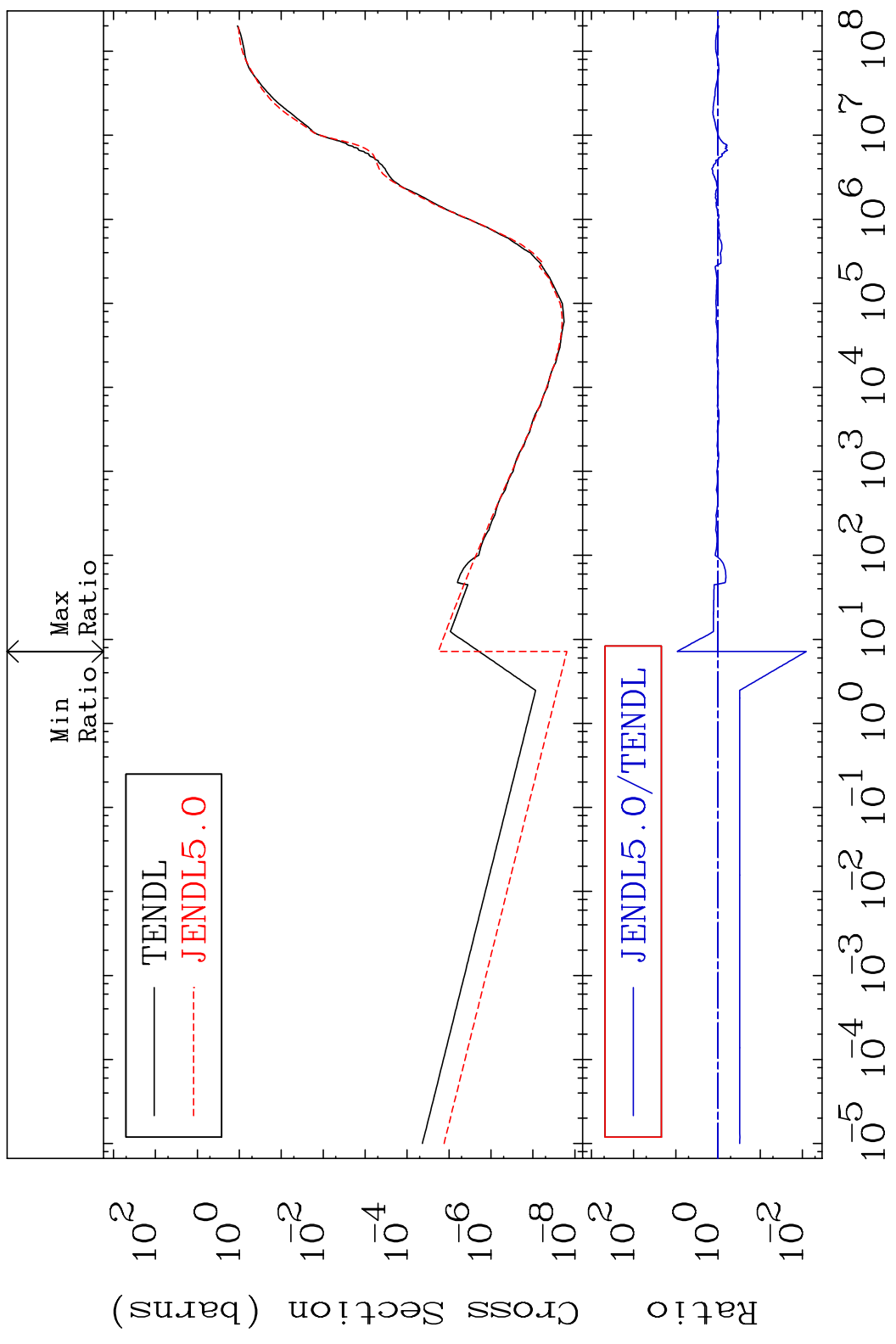
41

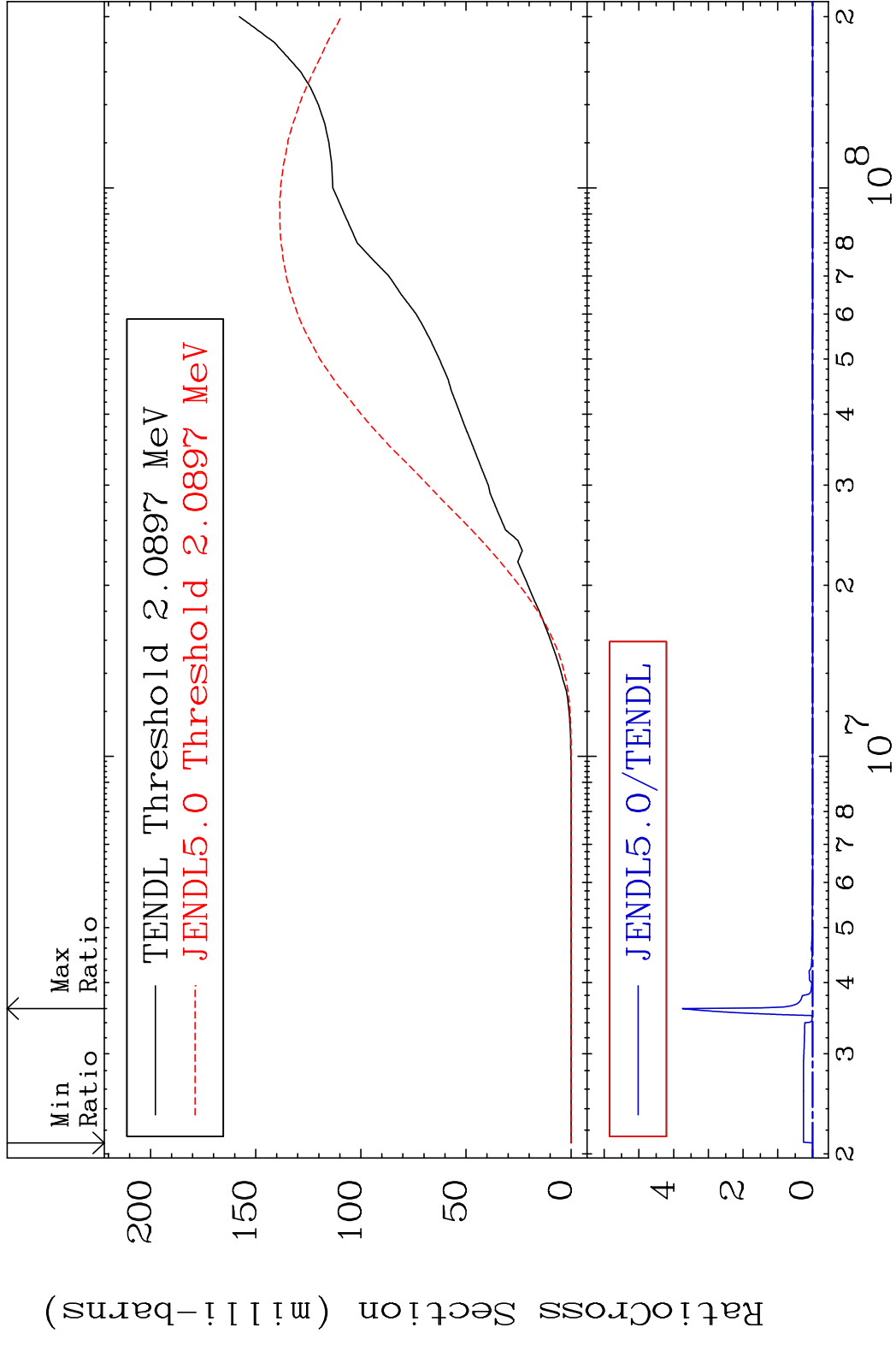
Incident Energy (eV)

61-Pm-143

MAT 6137

Hydrogen Production 61-Pm-143
Cross Section -99.20 To 827.5 %



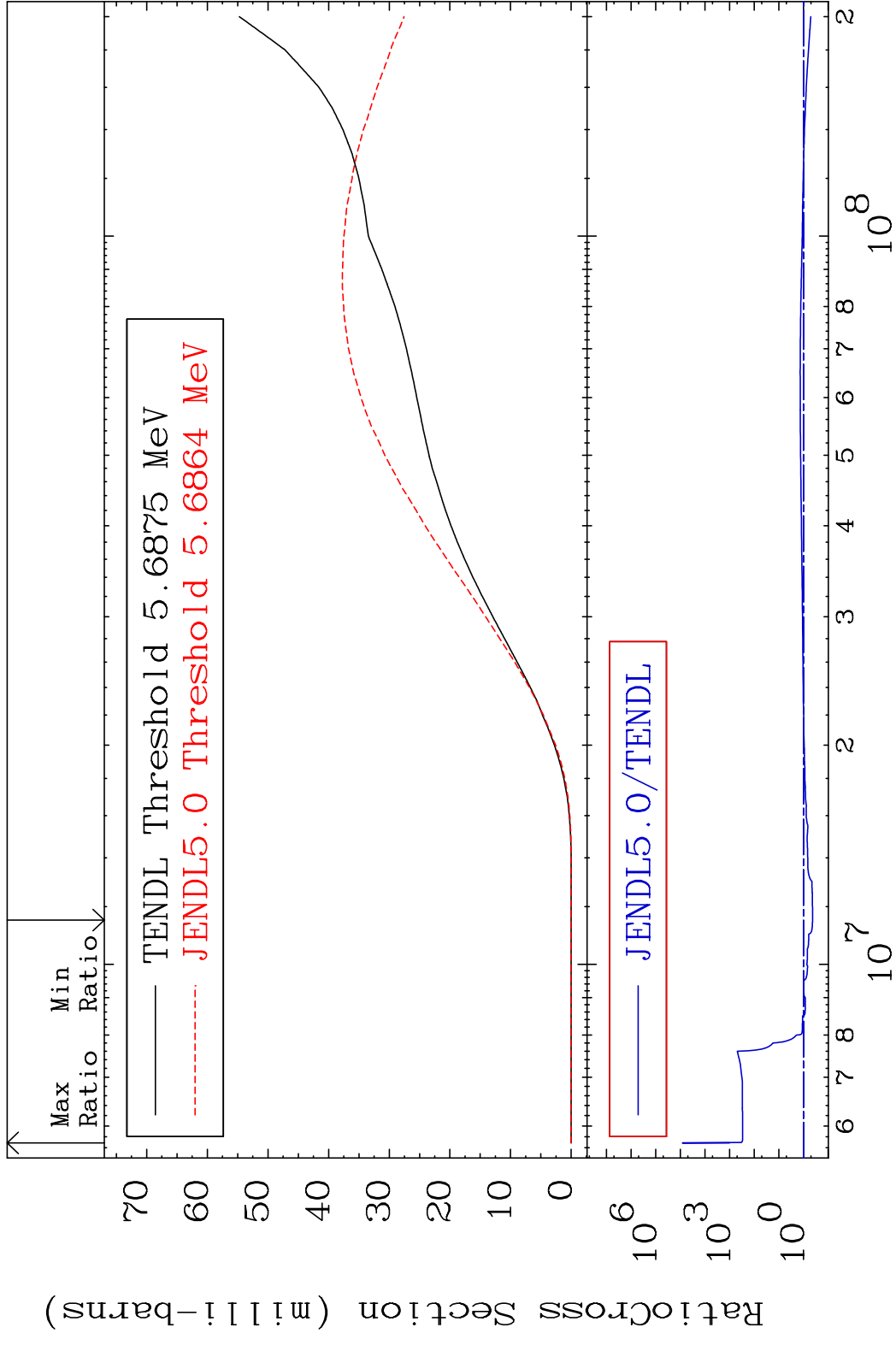


MAT 6137

Tritium Production

61-Pm-143

Cross Section -57.12 To 9999. %

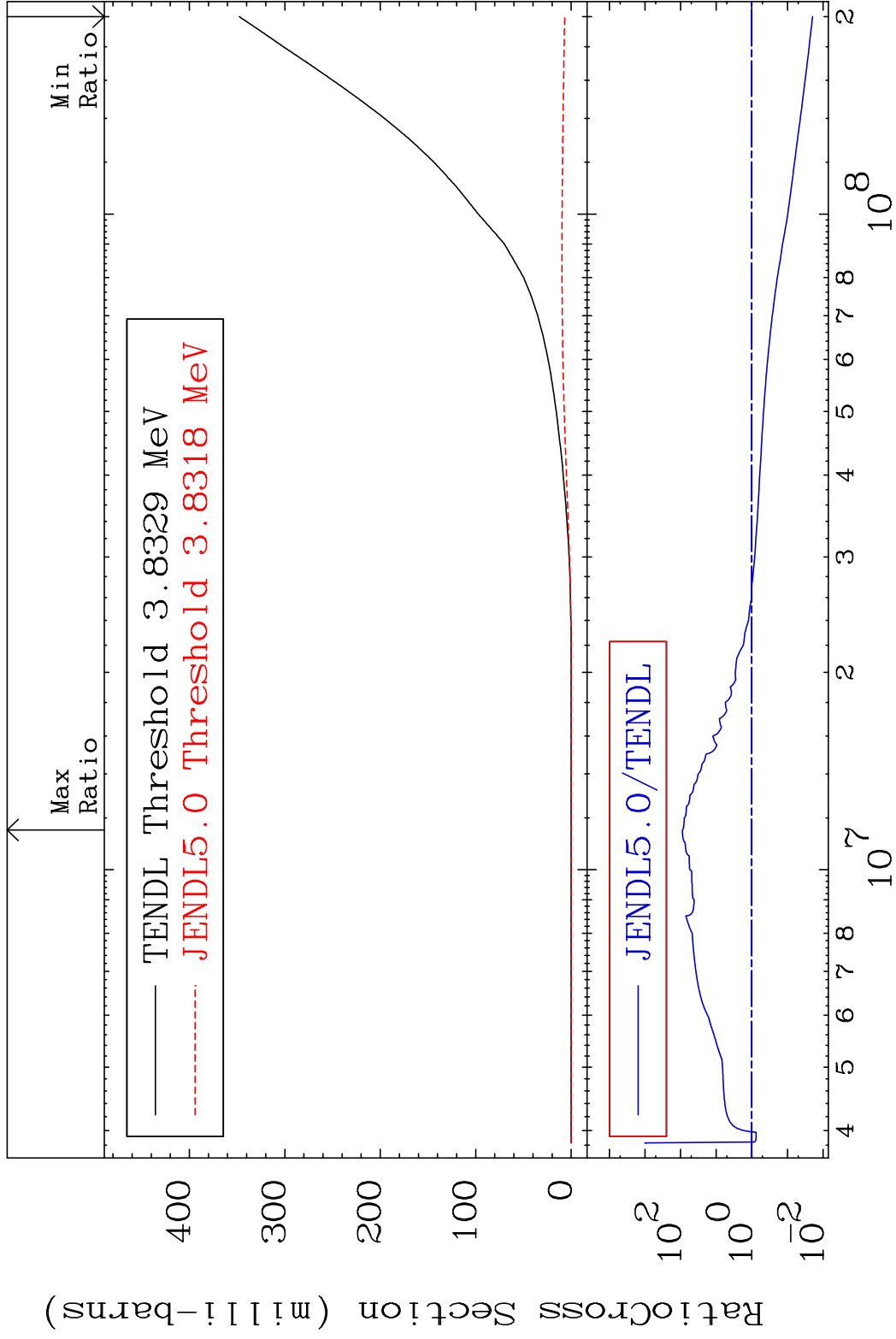


MAT 6137

He-3 Production

61-Pm-143

Cross Section -98.03 To 8805. %



45

Incident Energy (eV)

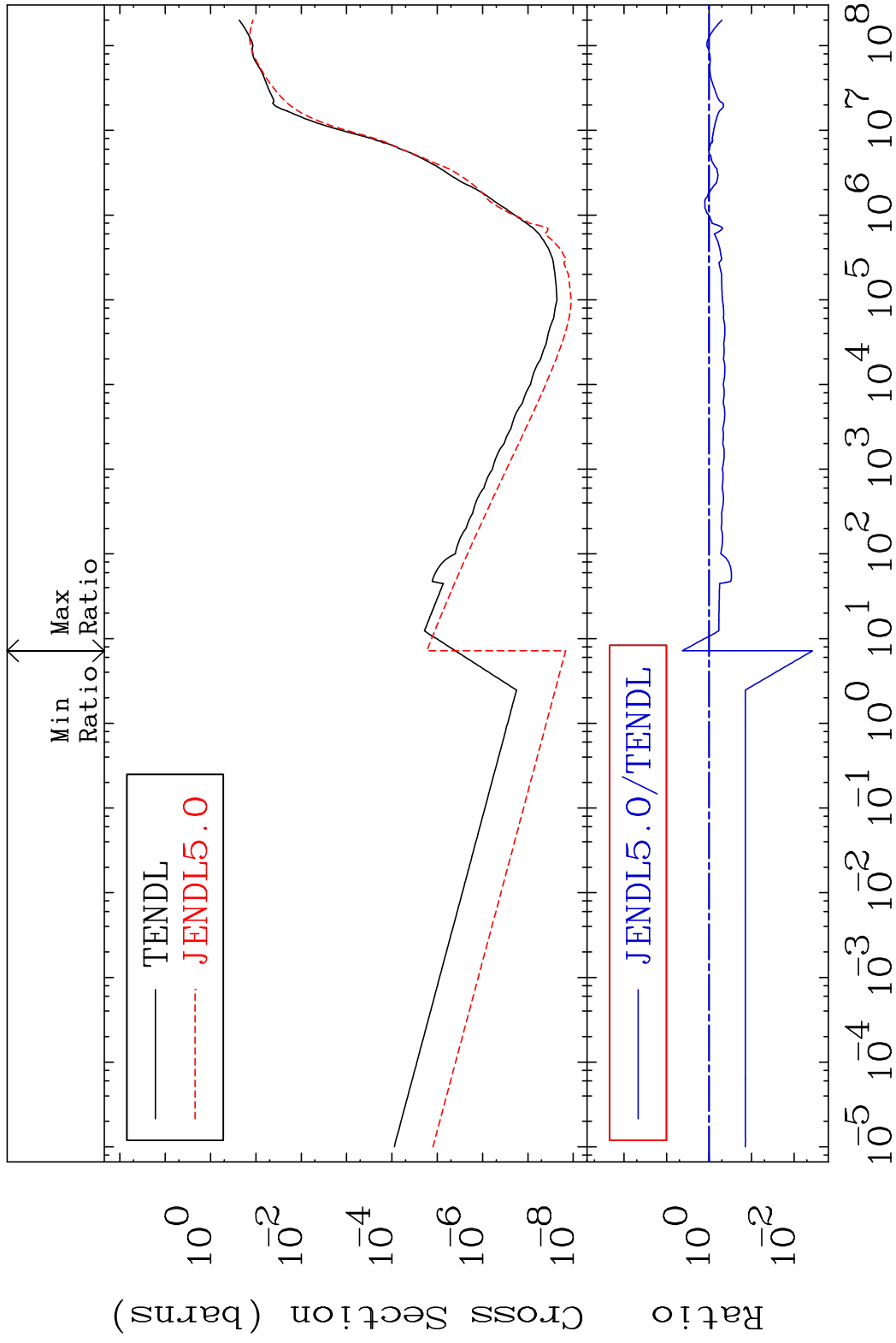
61-Pm-143

MAT 6137

He-4 Production

61-Pm-143

Cross Section -99.63 To 325.2 %

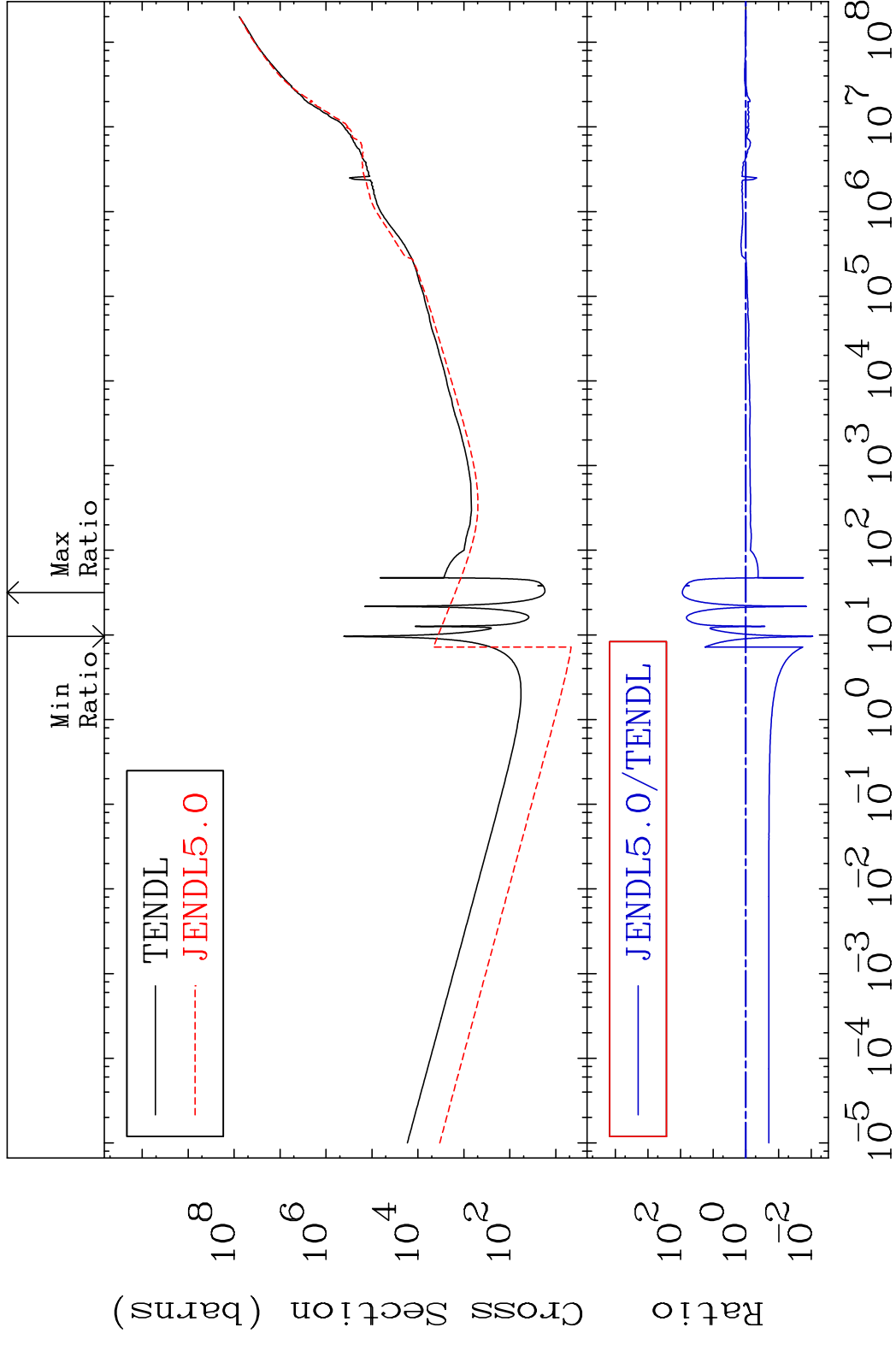


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Incident Energy (eV)

61-Pm-143

MAT 6137 Kerma total (eV-barns) 61-Pm-143
 Cross Section -99.09 To 8713. %

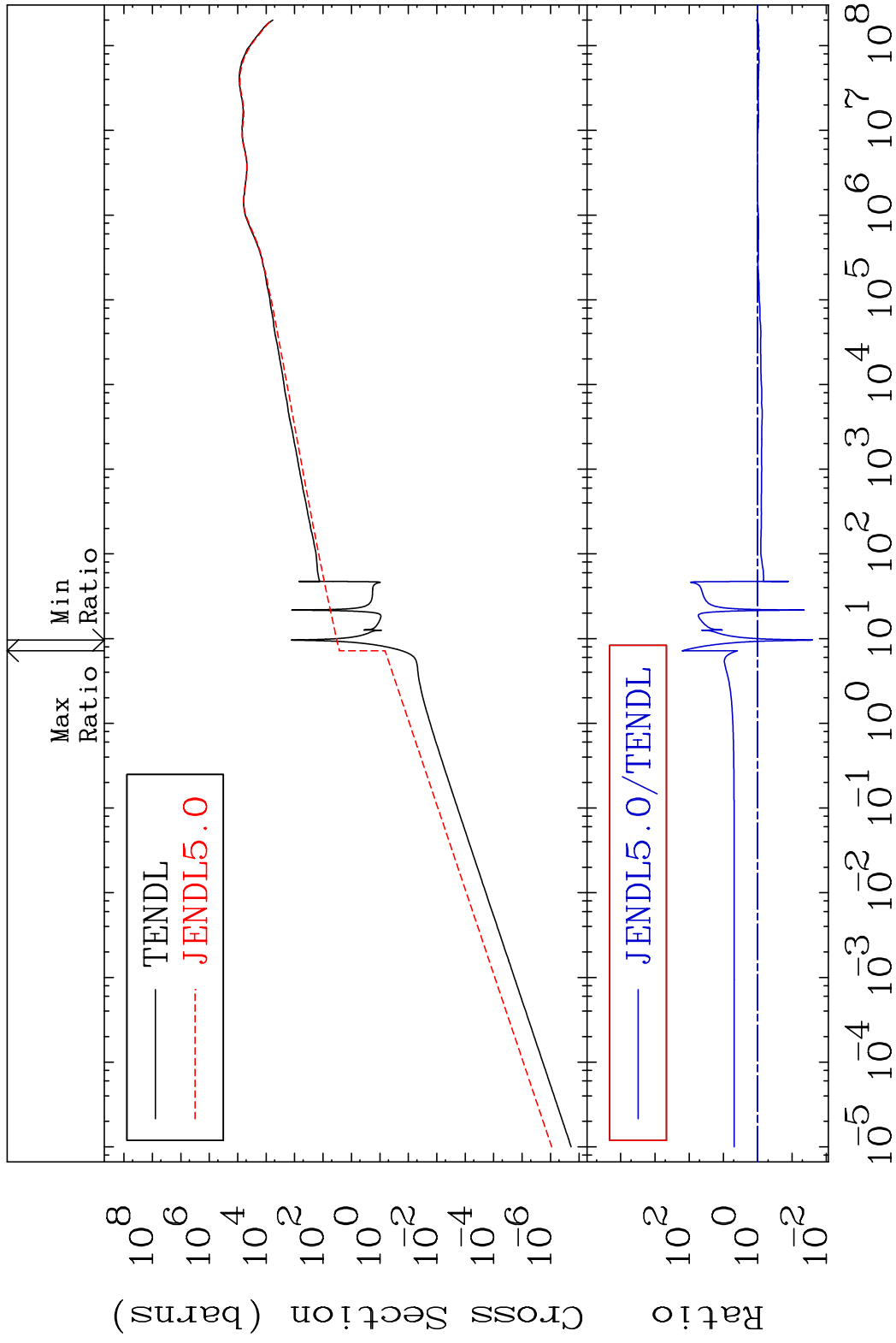


MAT 6137

Kerma elastic

61-Pm-143

Cross Section -97.49 To 9999. %

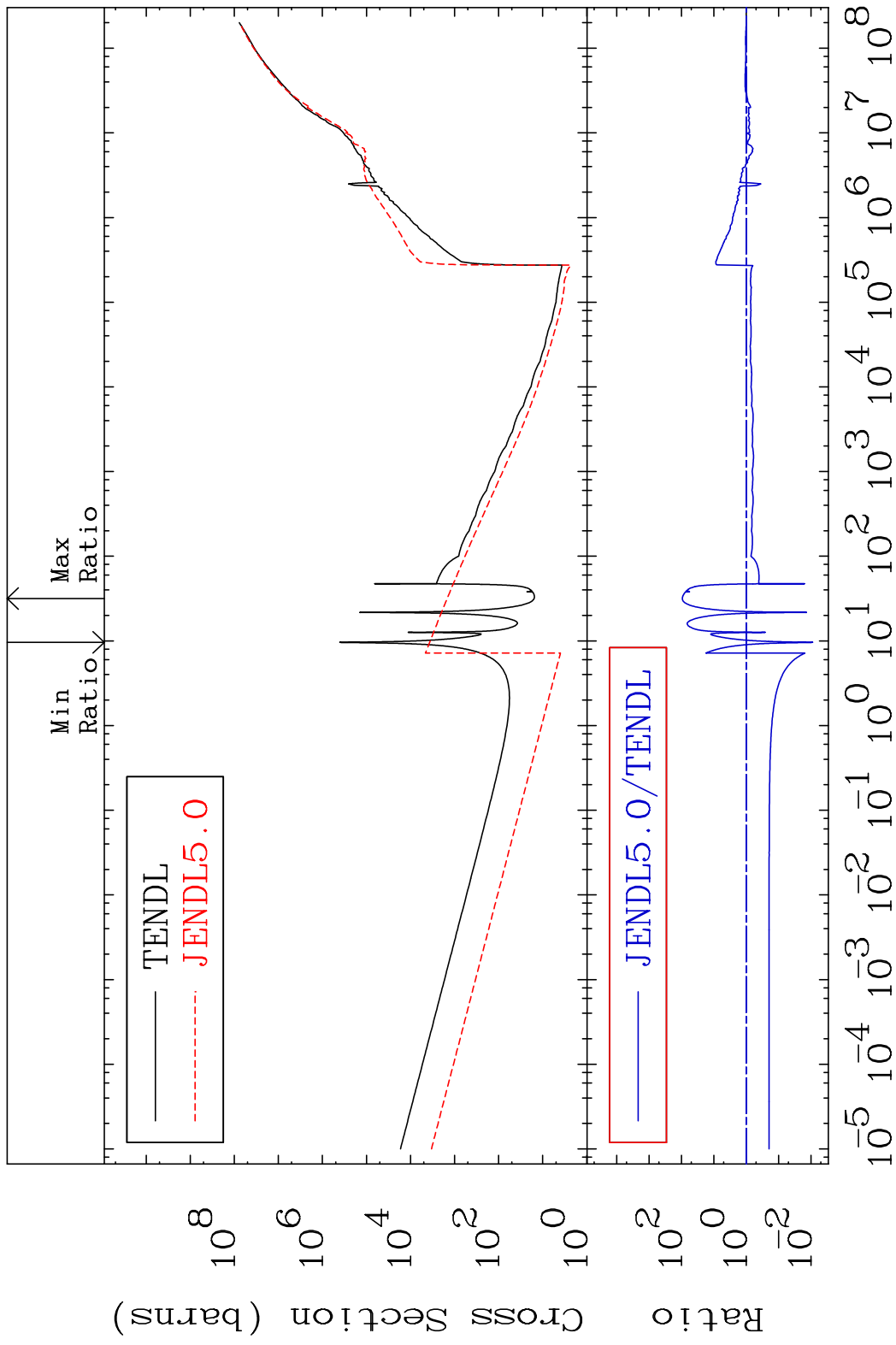


48

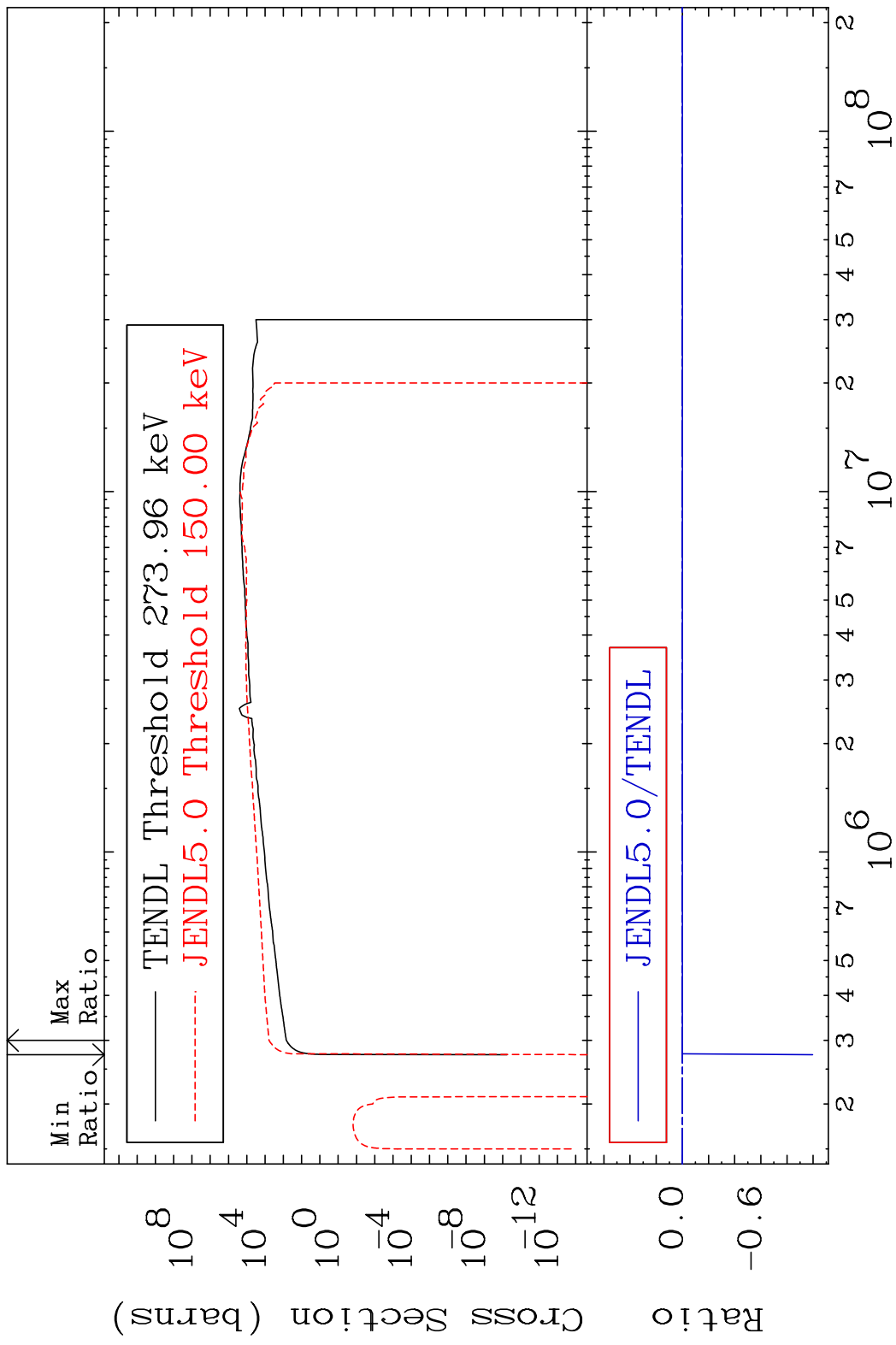
Incident Energy (eV)

61-Pm-143

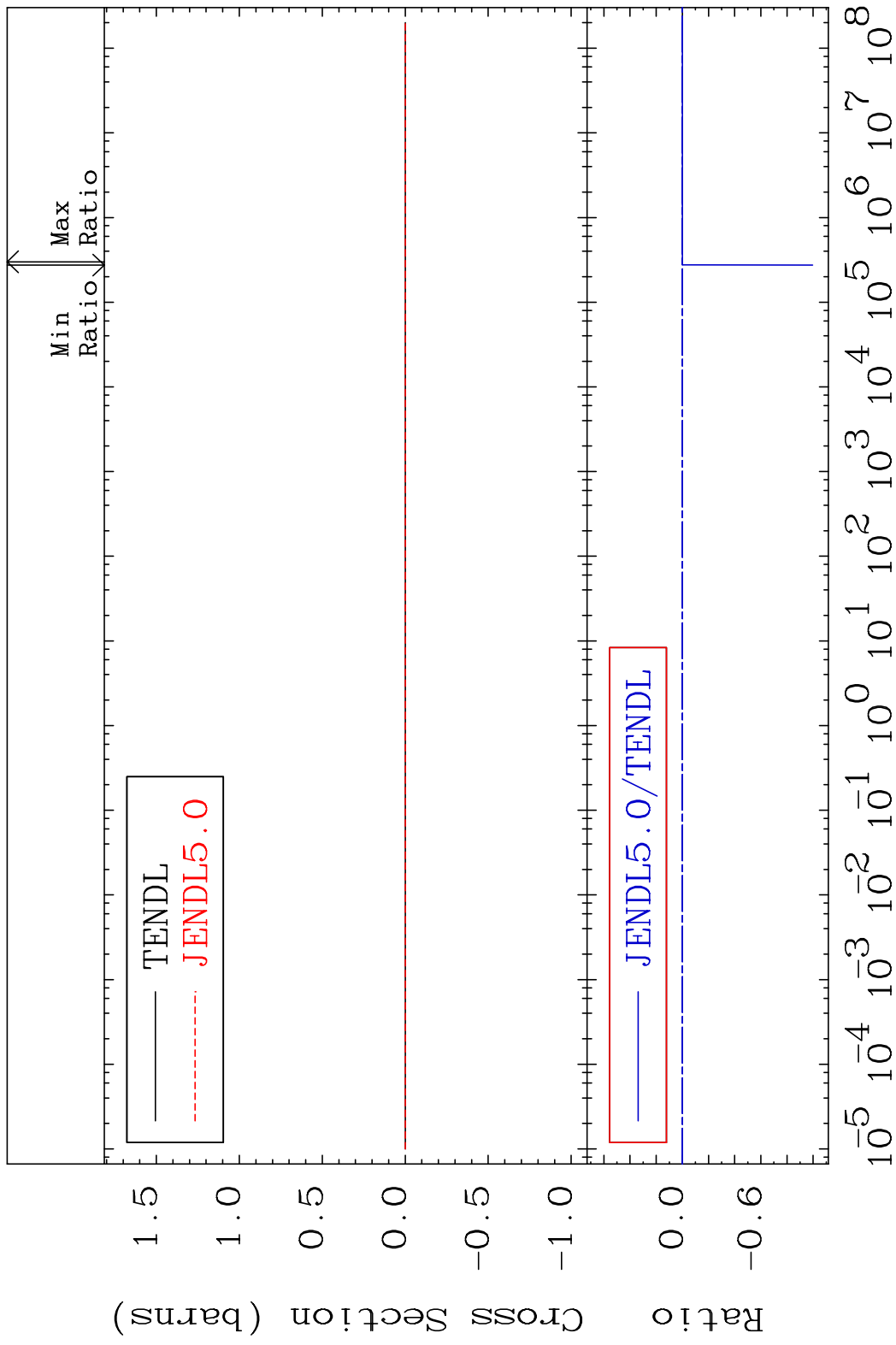
MAT 6137 Kerma non-elastic (all but mt2) 61-Pm-143
 Cross Section -99.10 To 9305. %



MAT 6137 Kerma inelastic (mt51-91) 61-Pm-143
 Cross Section -9999. To 778.1 %

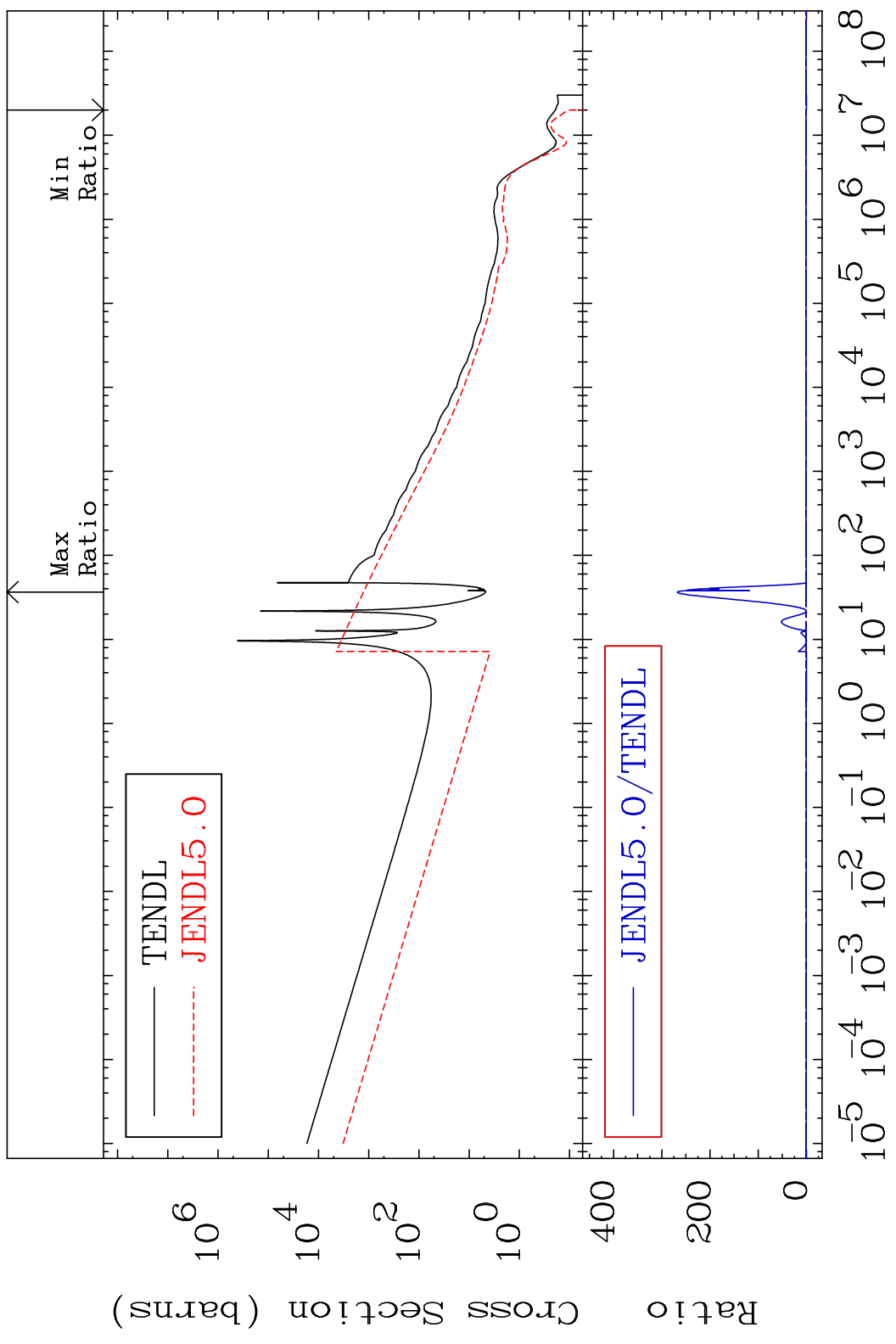


MAT 6137 Kerma fission (mt18 or mt19-20-21-38) 61-Pm-143
 Cross Section -9999. To 778.1 %



MAT 6137

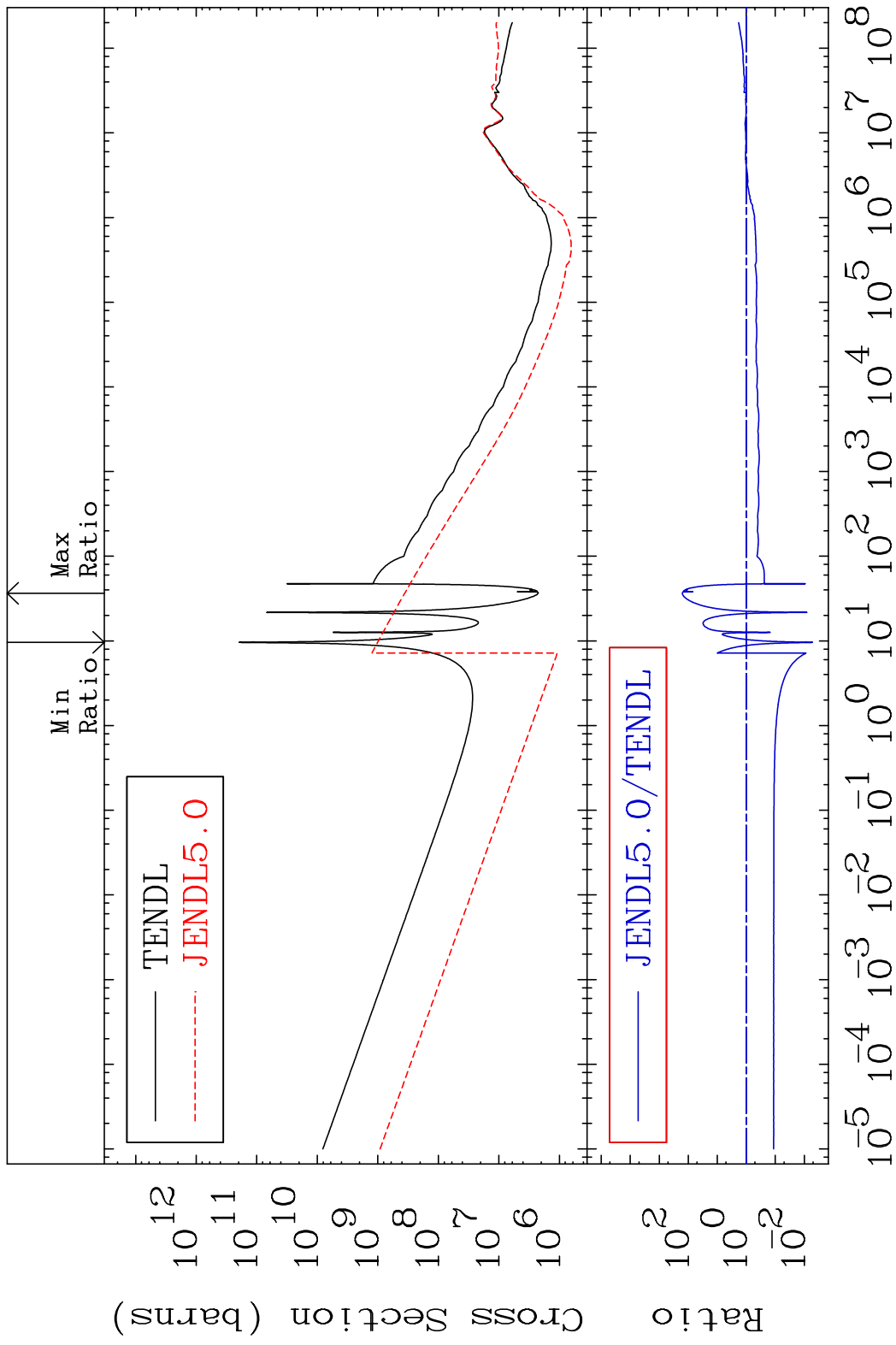
Kerma capture (mt102) 61-Pm-143
Cross Section -100.0 To 9999. %



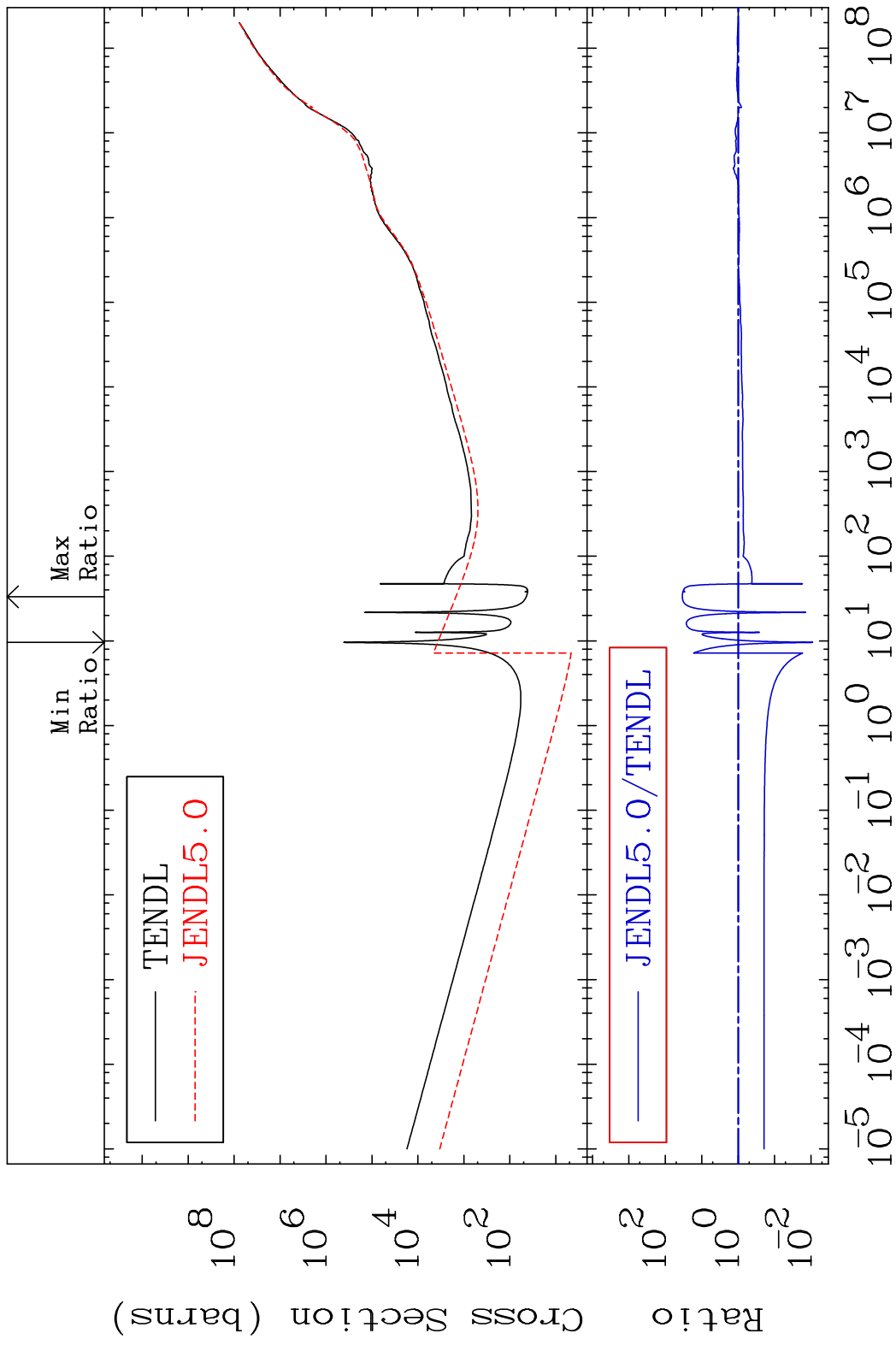
52

Incident Energy (eV) 61-Pm-143

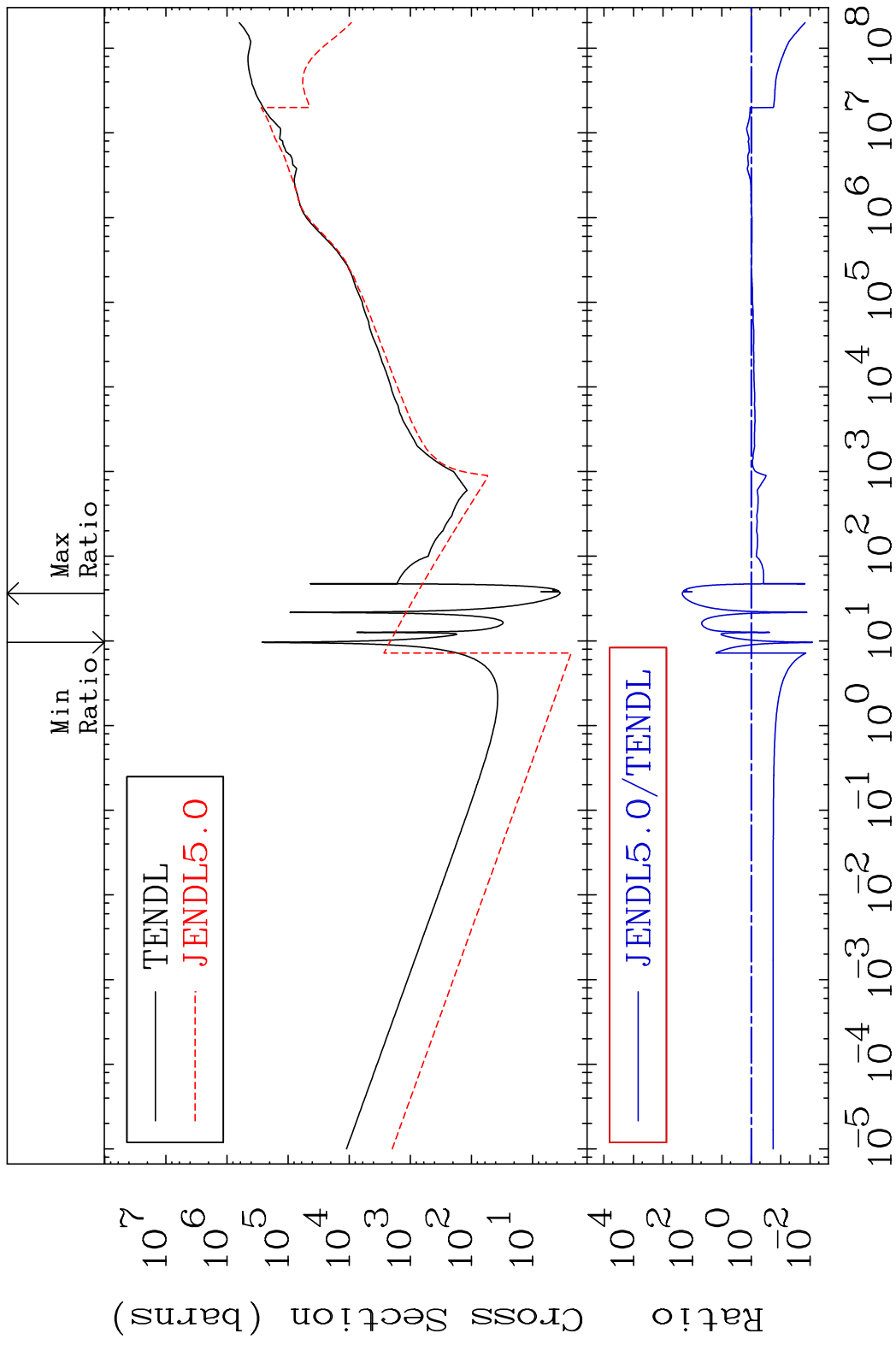
MAT 6137 Total photon (eV-barns) 61-Pm-143
 Cross Section -99.48 To 9999. %



MAT 6137 Total kinematic kerma (high limit) 61-Pm-143
 Cross Section -99.09 To 3305. %



MAT 6137 Dpa total (eV-barns) 61-Pm-143
 Cross Section -99.18 To 9999. %

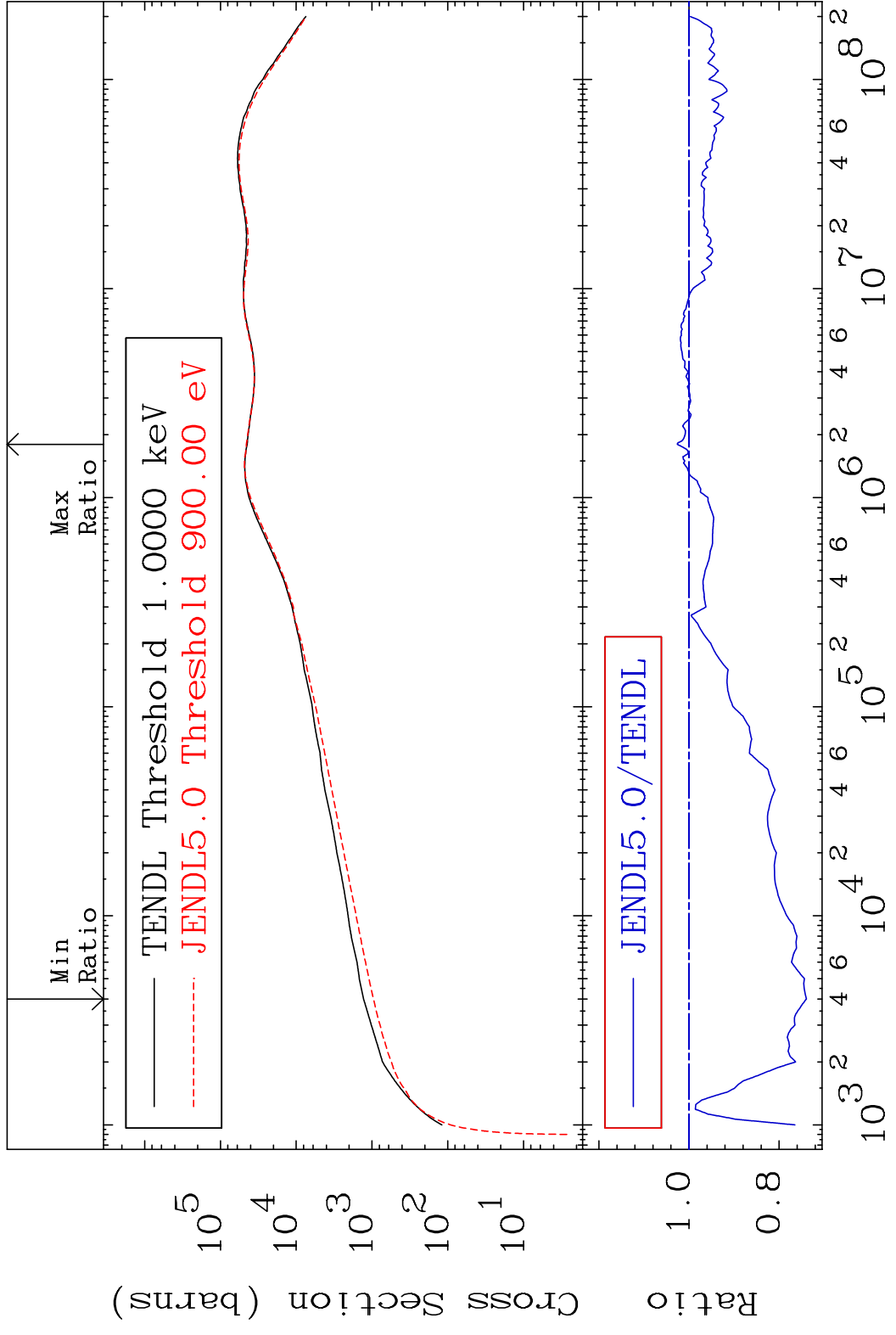


MAT 6137

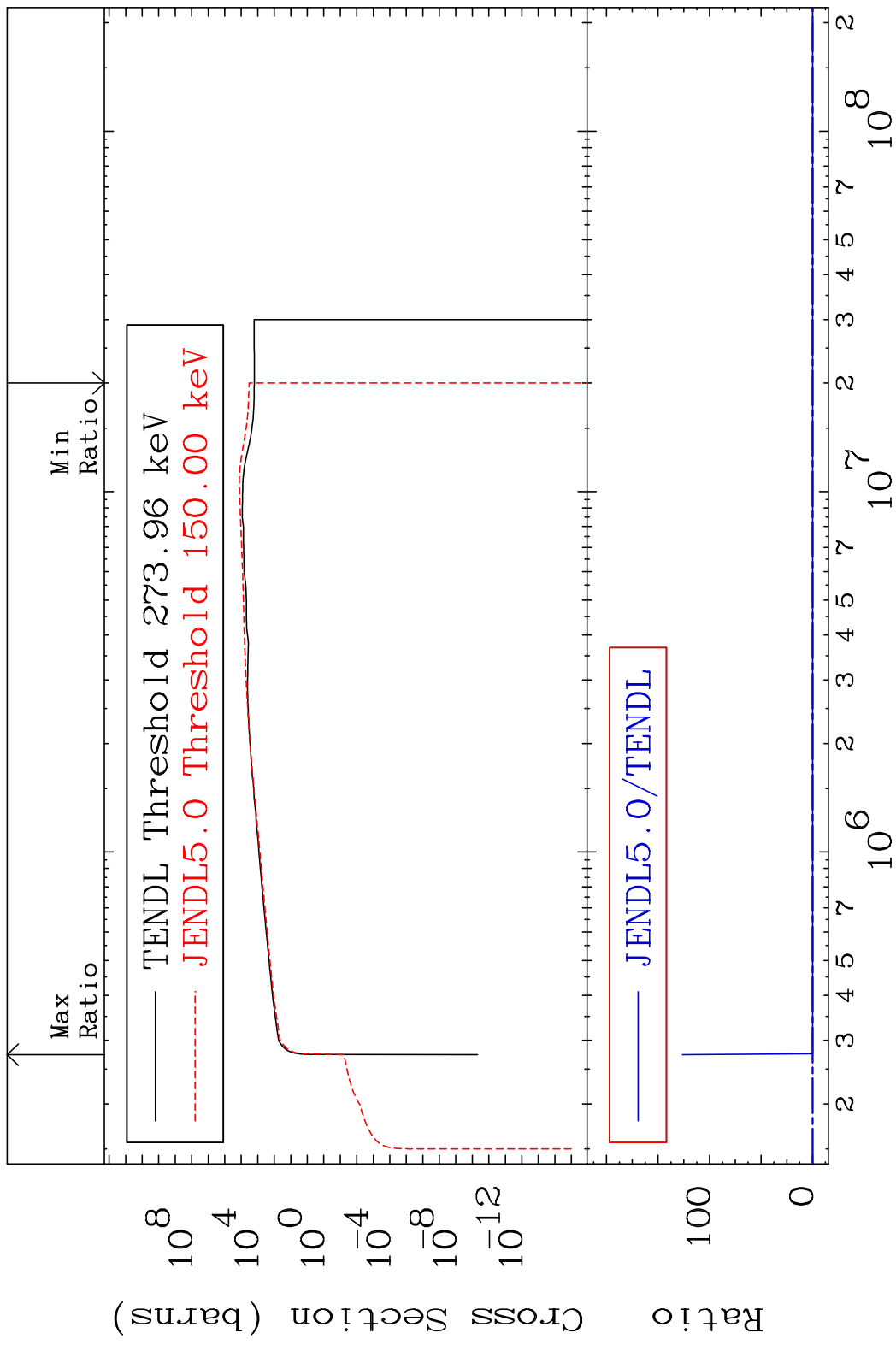
Dpa elastic (mt2)

61-Pm-143

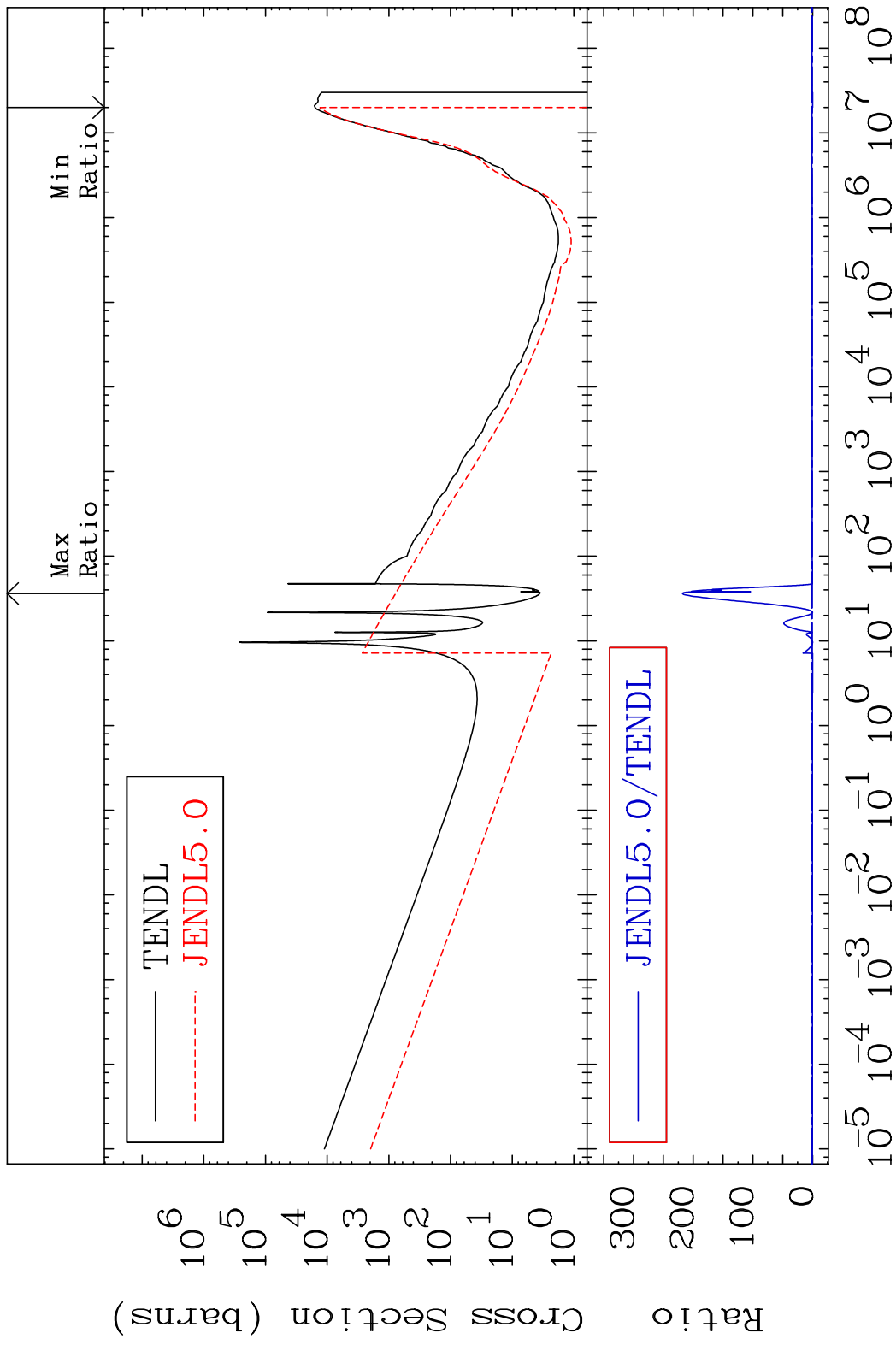
Cross Section -26.05 To 2.624 %

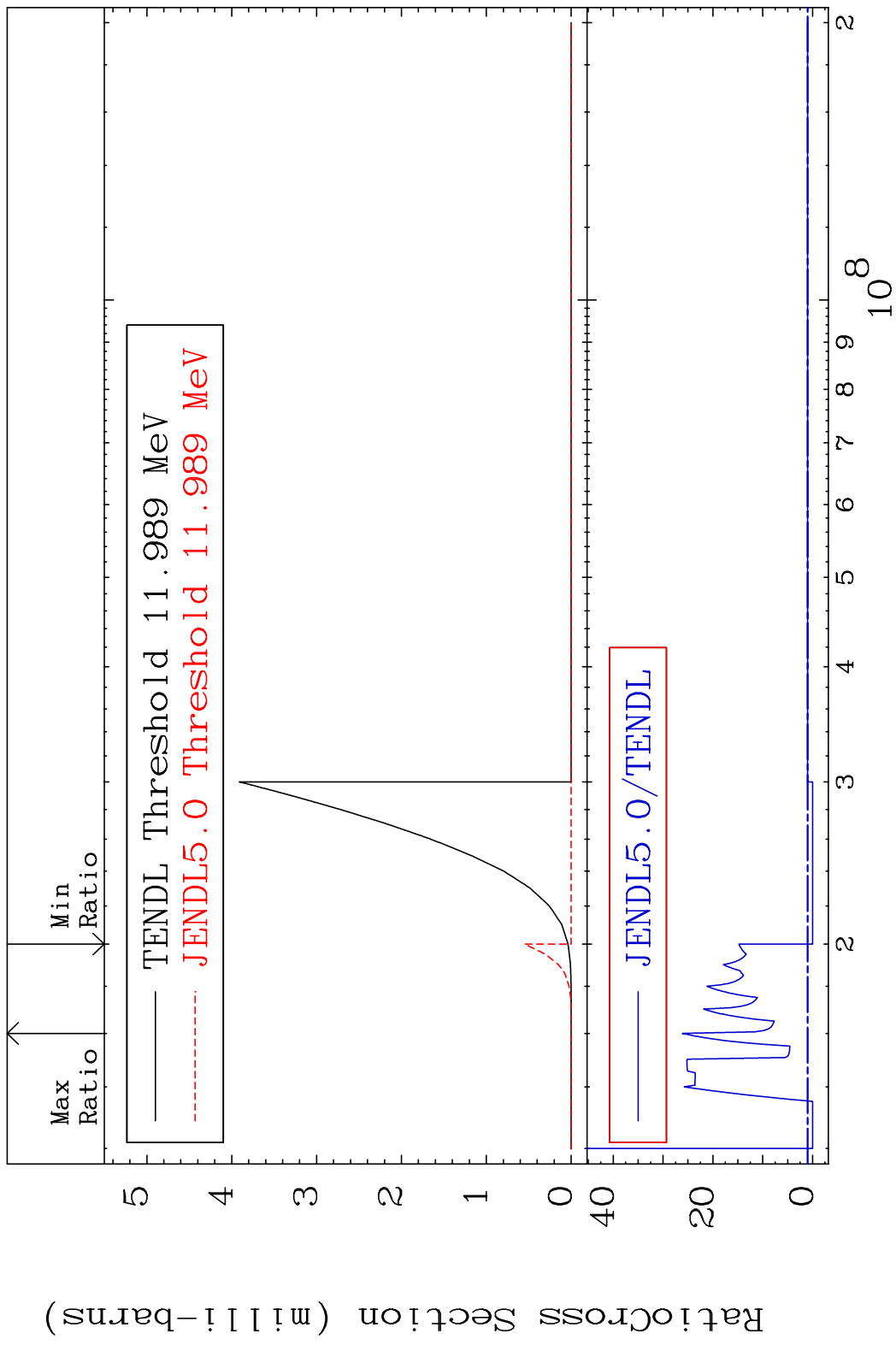


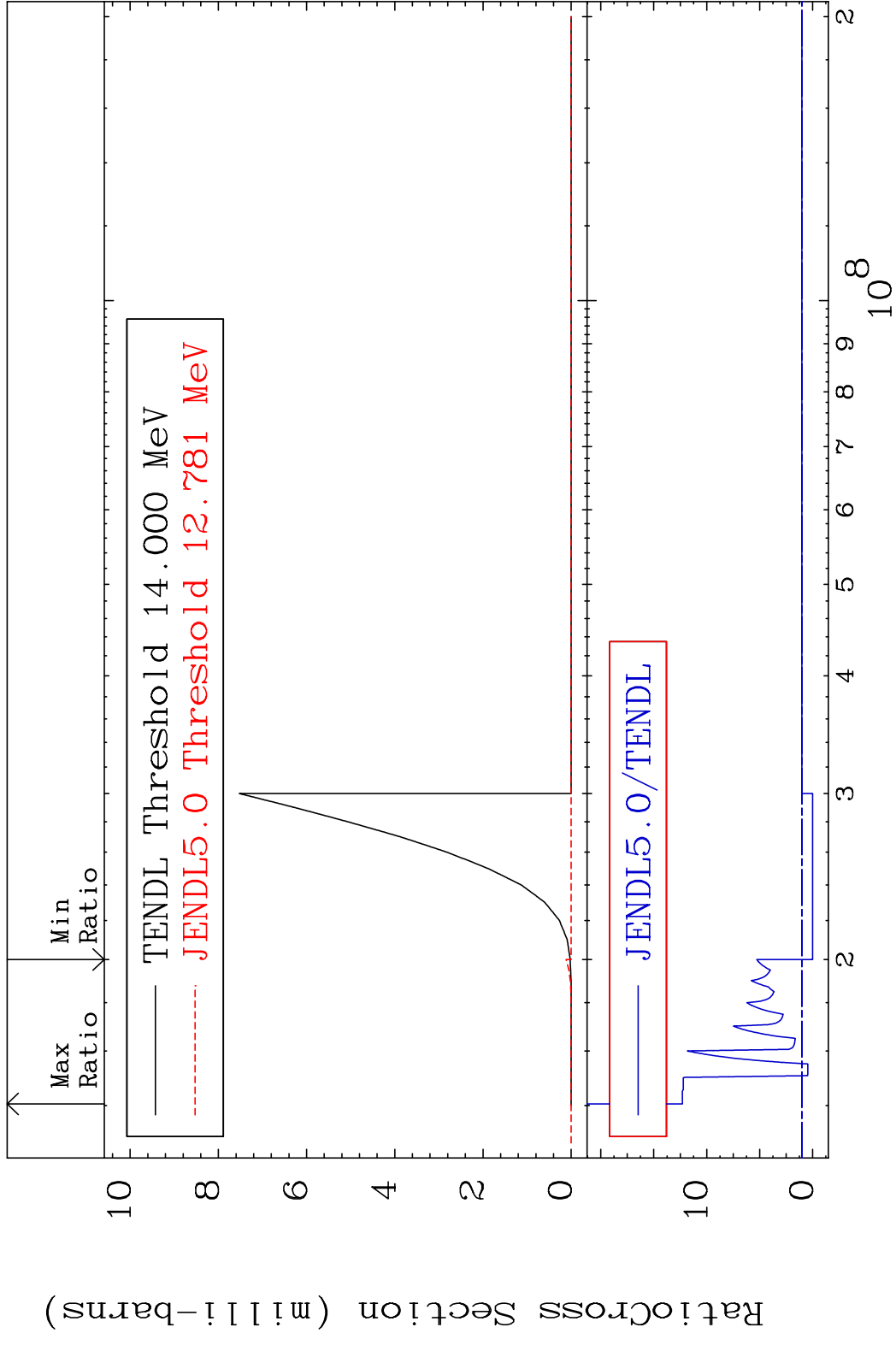
MAT 6137 Dpa inelastic (mt51-91) 61-Pm-143
 Cross Section -100.0 To 9999. %

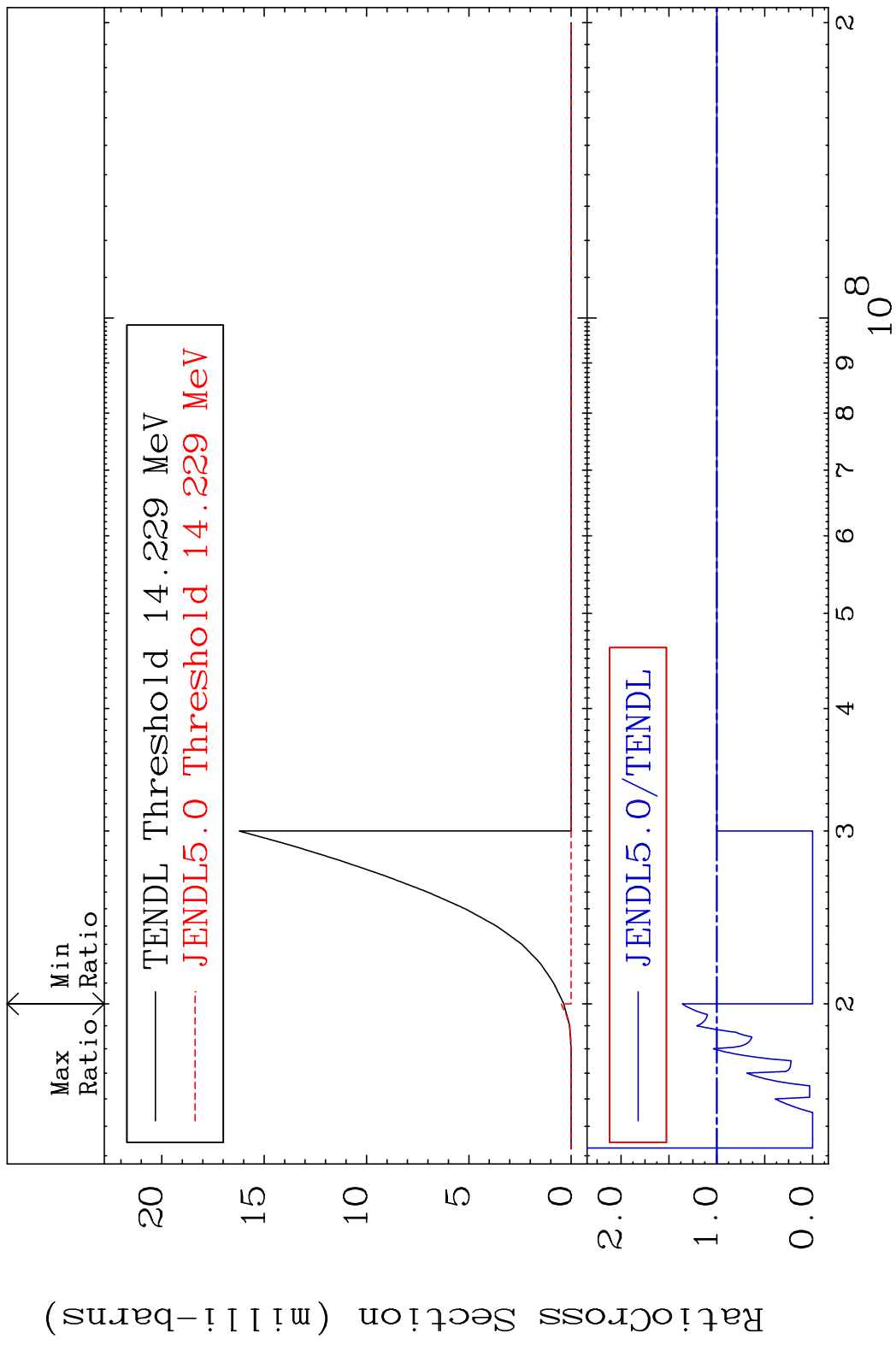


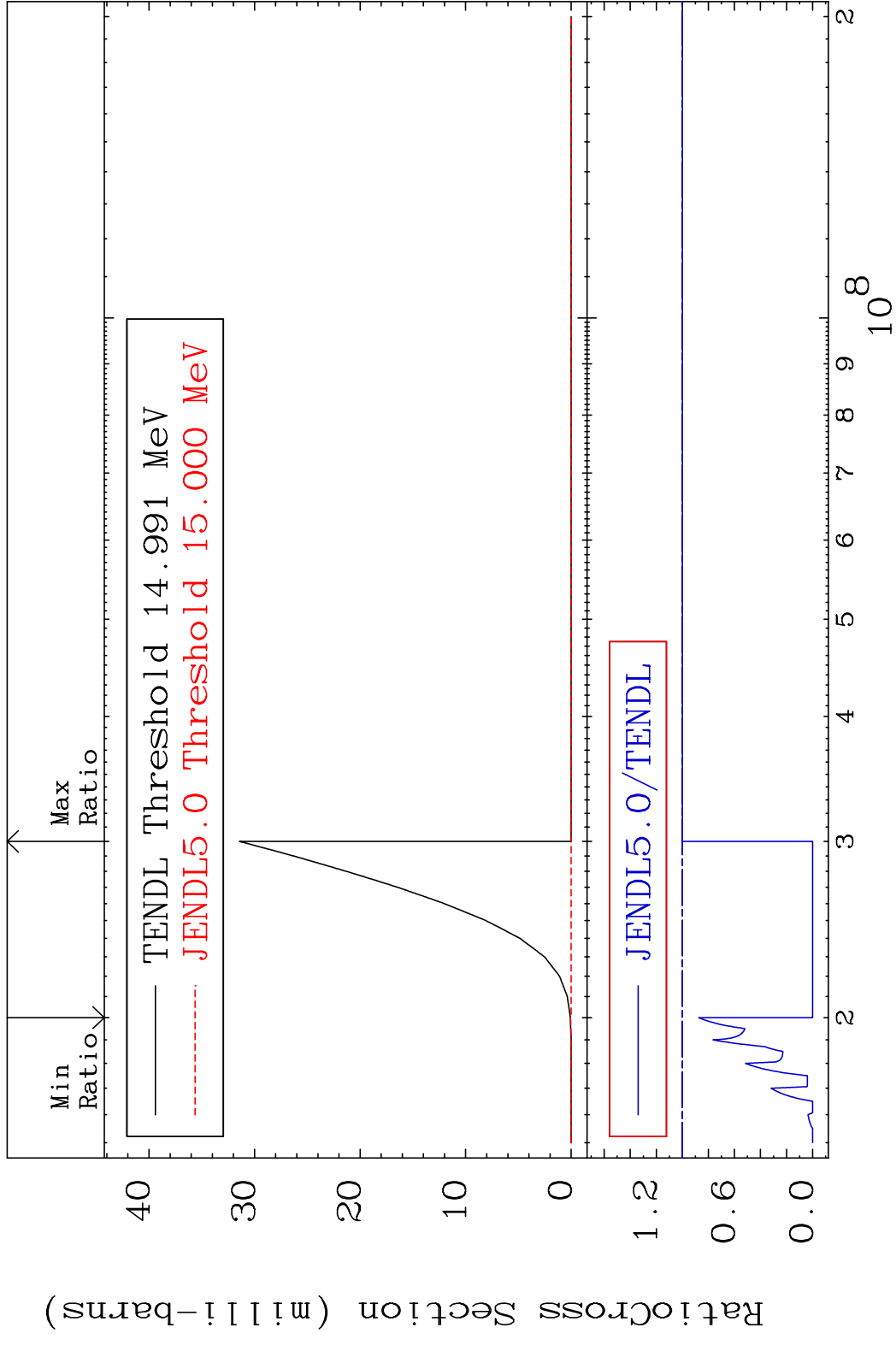
MAT 6137 Dpa disappearance (mt102 -120) 61-Pm-143
 Cross Section -100.0 To 9999. %

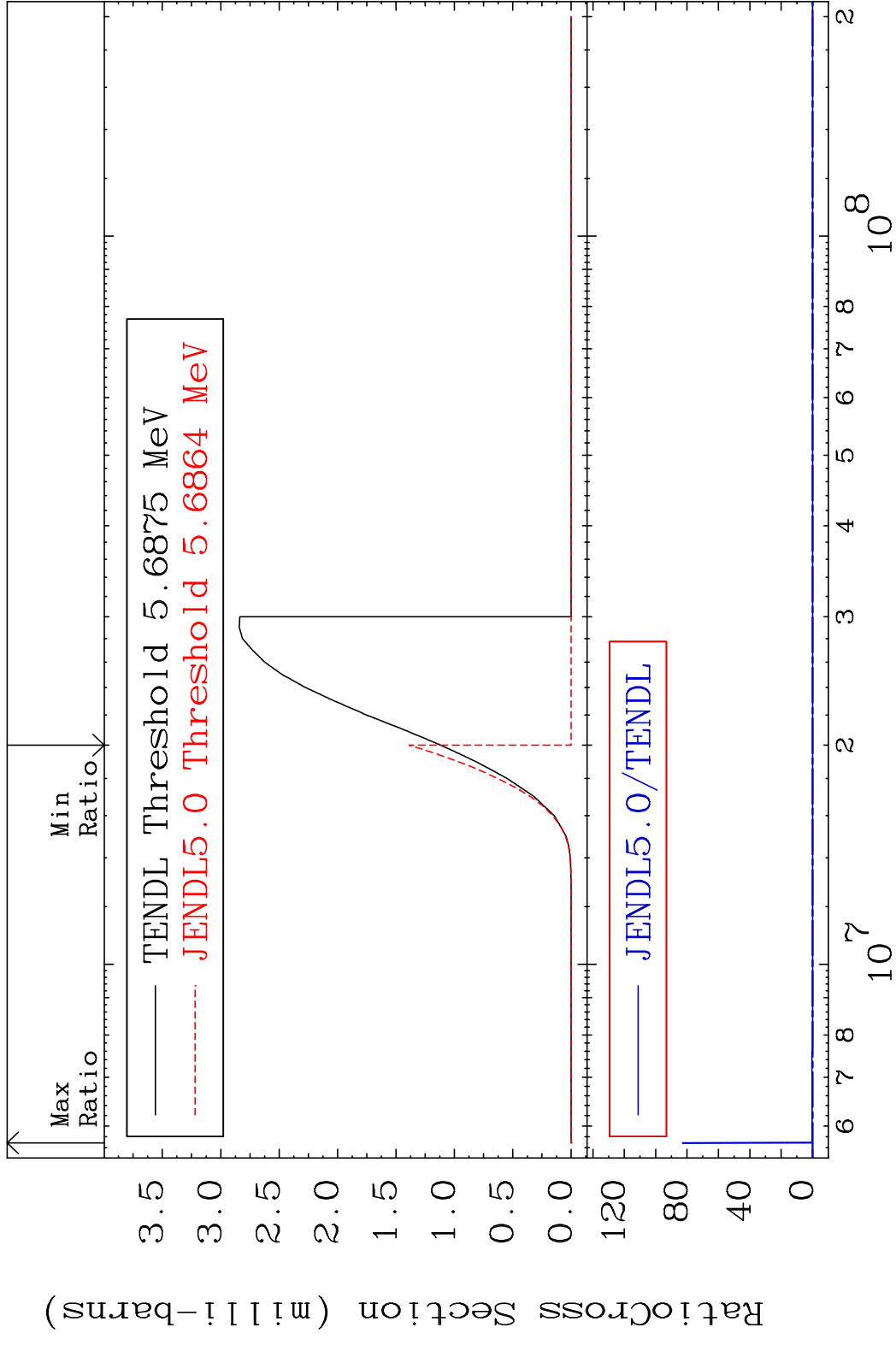


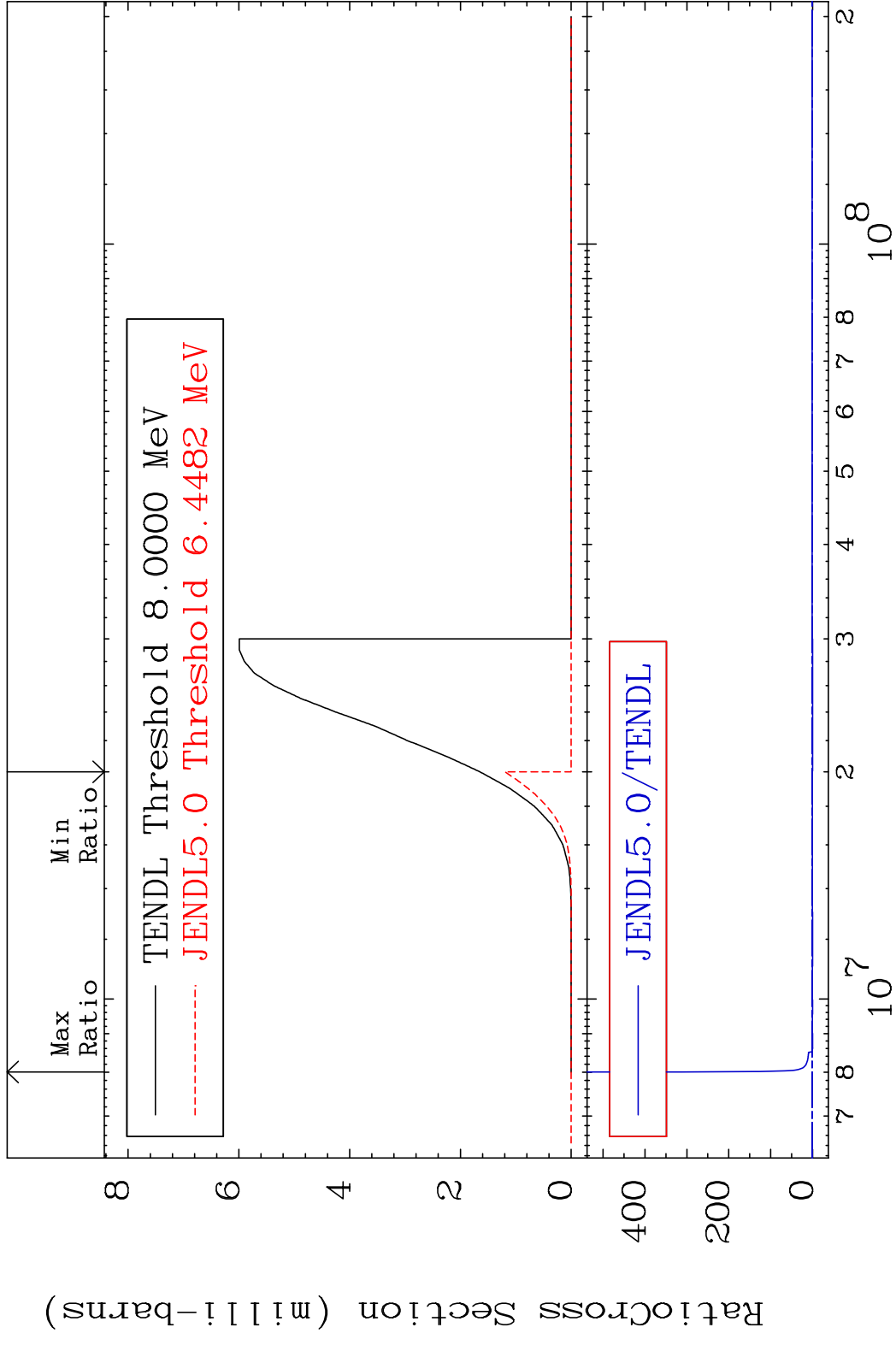










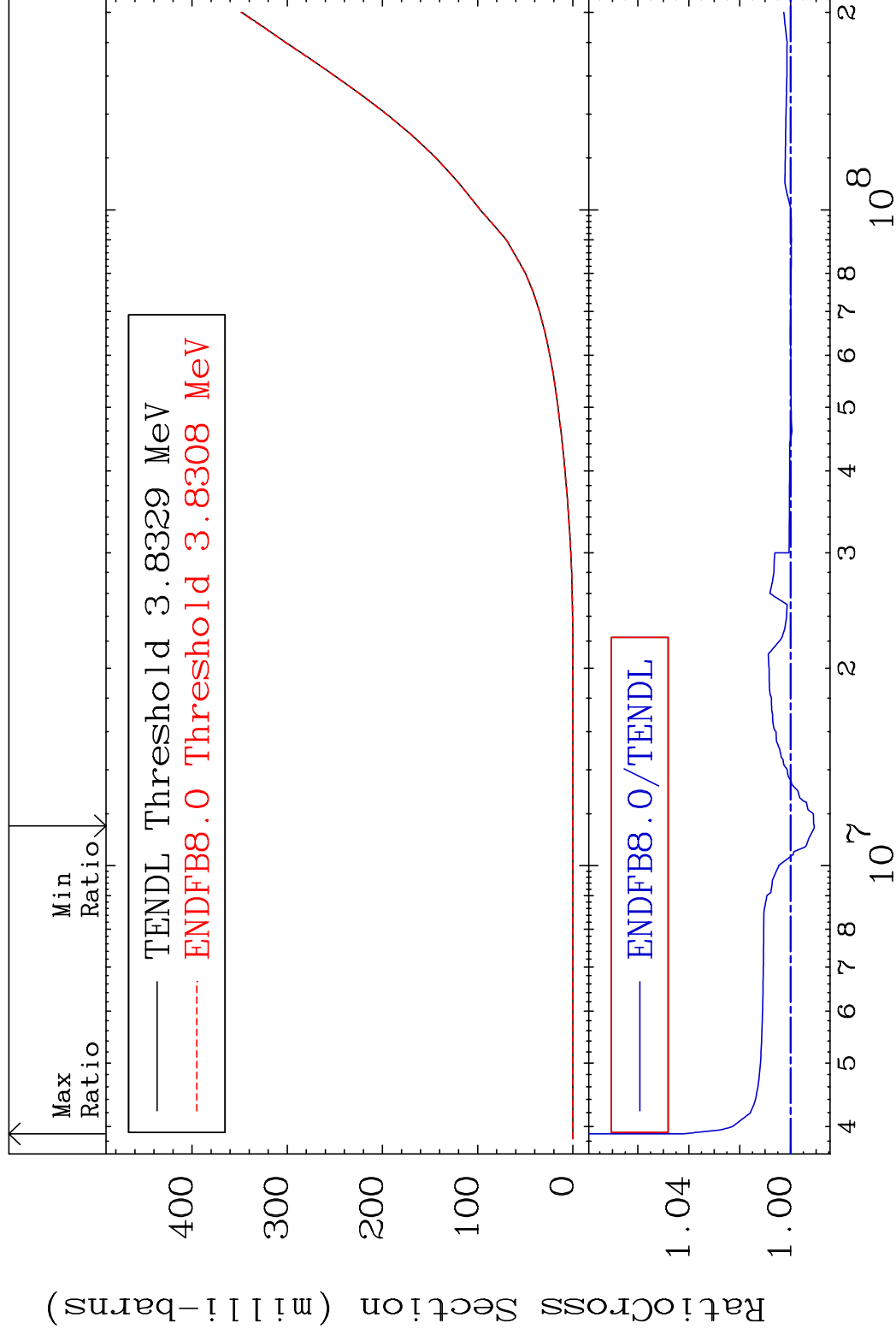


MAT 6137

He-3 Production

61-Pm-143

Cross Section -0.930 To 4.185 %



65

Incident Energy (eV)

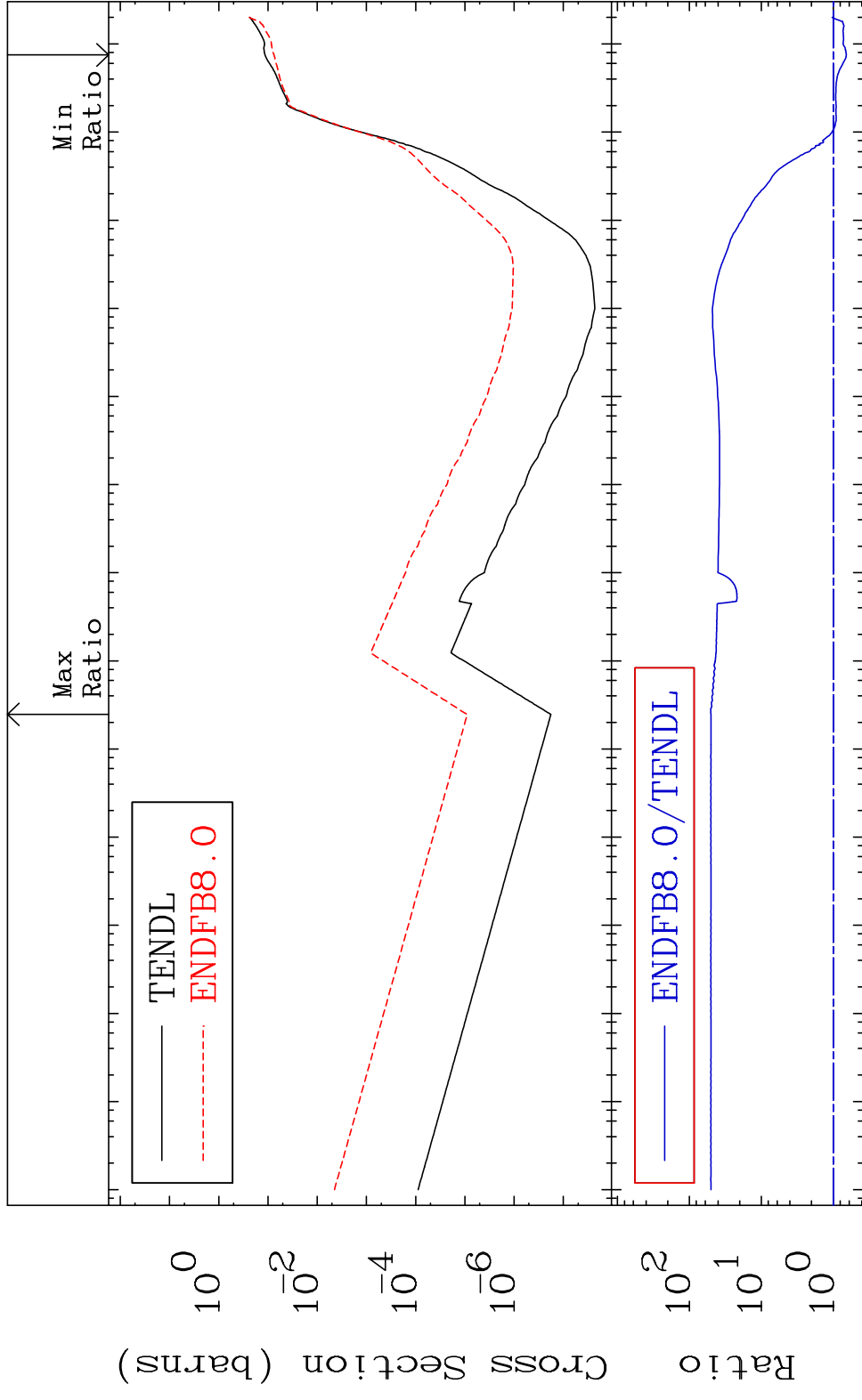
61-Pm-143

MAT 6137

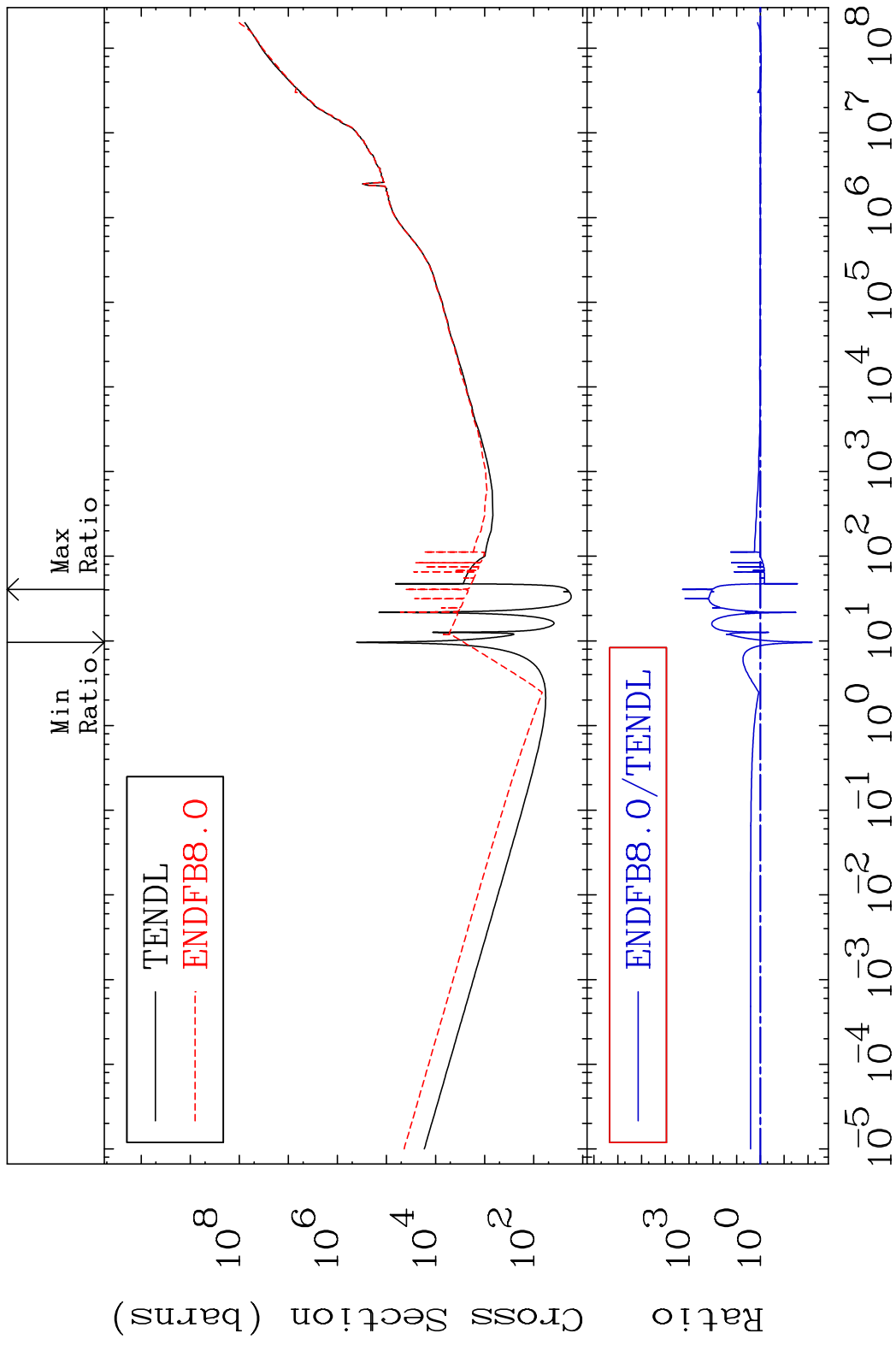
He-4 Production

61-Pm-143

Cross Section -34.32 To 4950. %



MAT 6137 Kerma total (eV-barns) 61-Pm-143
 Cross Section -99.36 To 9999. %



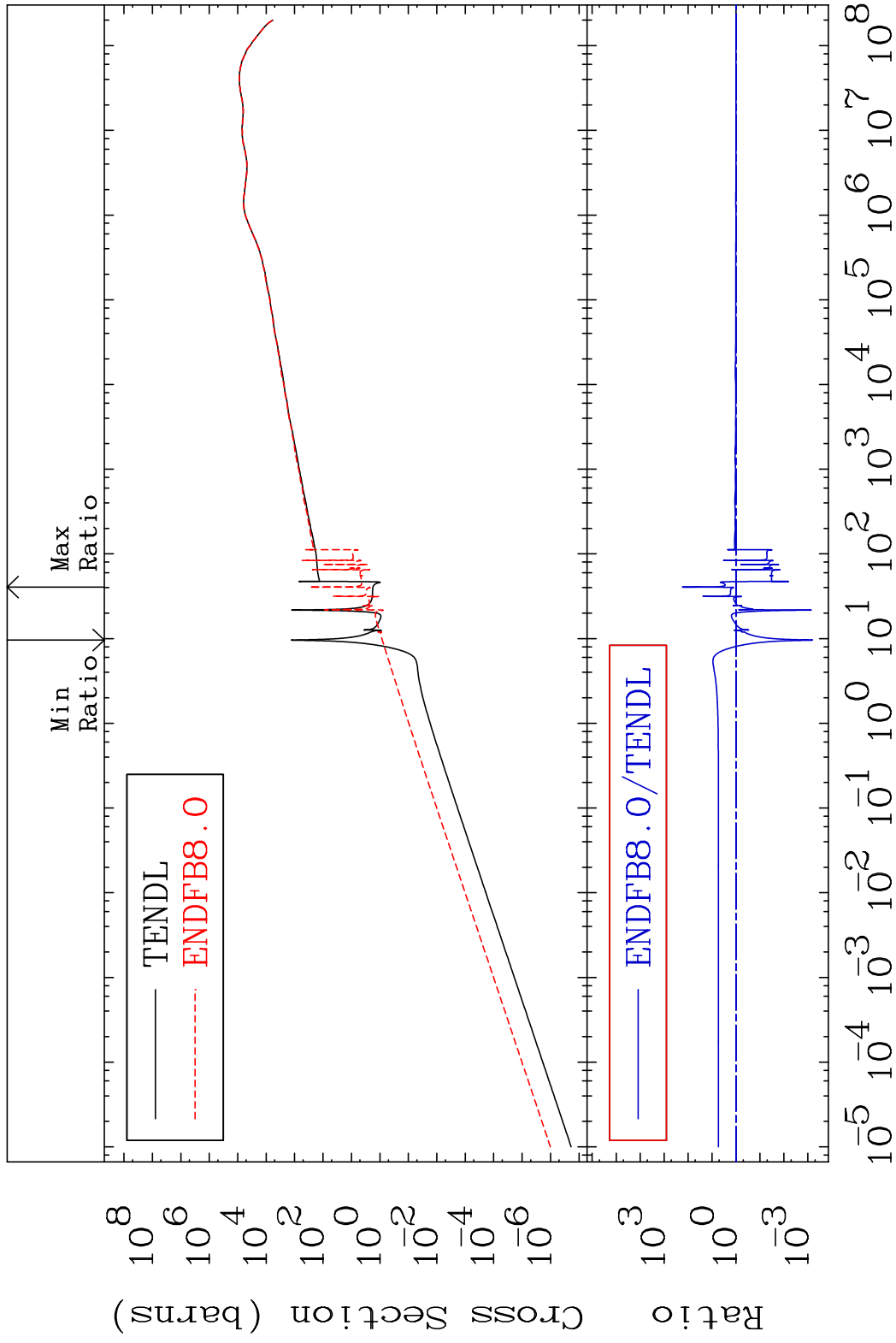
67 Incident Energy (eV) 61-Pm-143

MAT 6137

Kerma elastic

61-Pm-143

Cross Section -99.94 To 9999. %

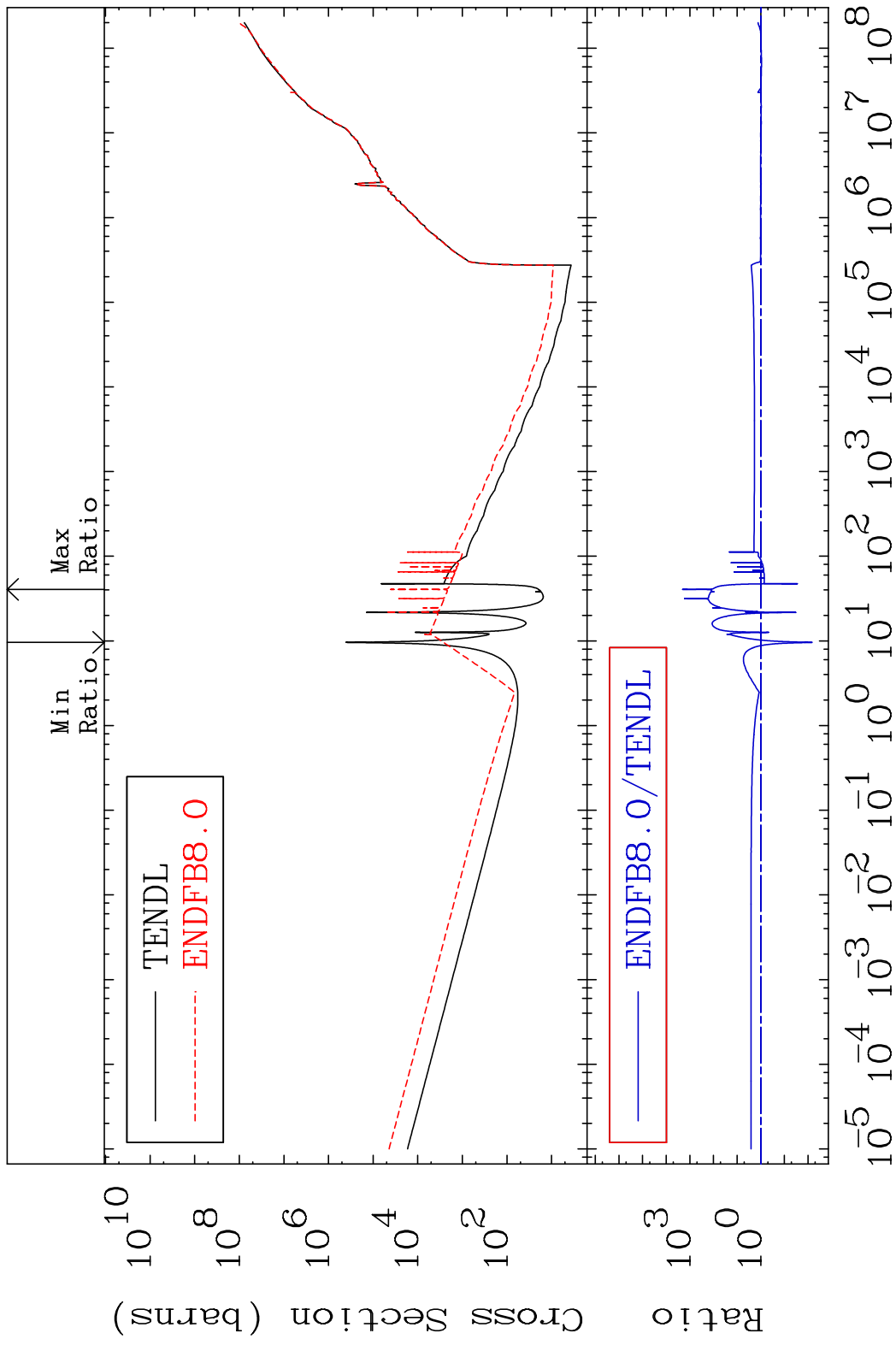


68

Incident Energy (eV)

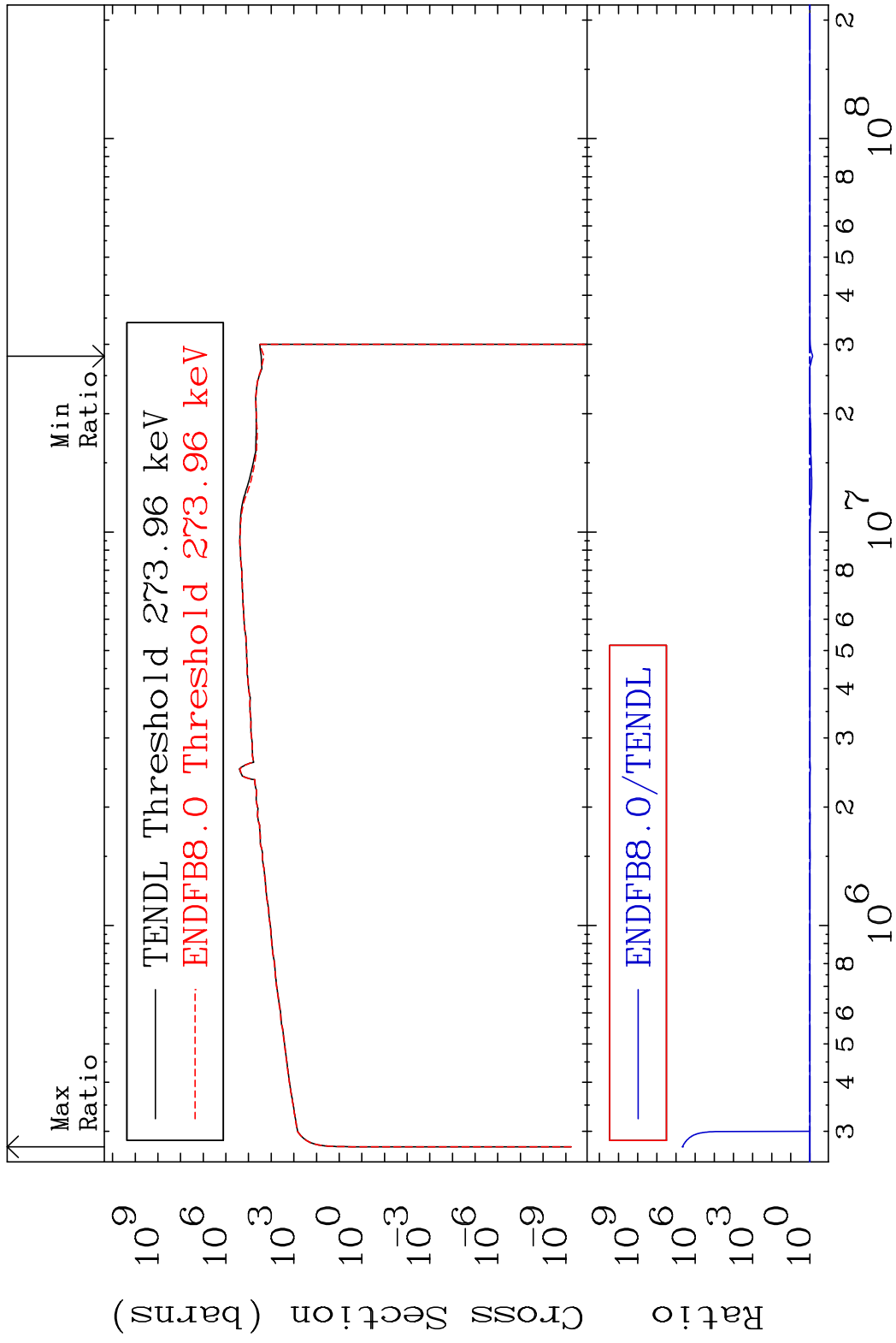
61-Pm-143

MAT 6137 Kerma non-elastic (all but mt2) 61-Pm-143
 Cross Section -99.36 To 9999. %

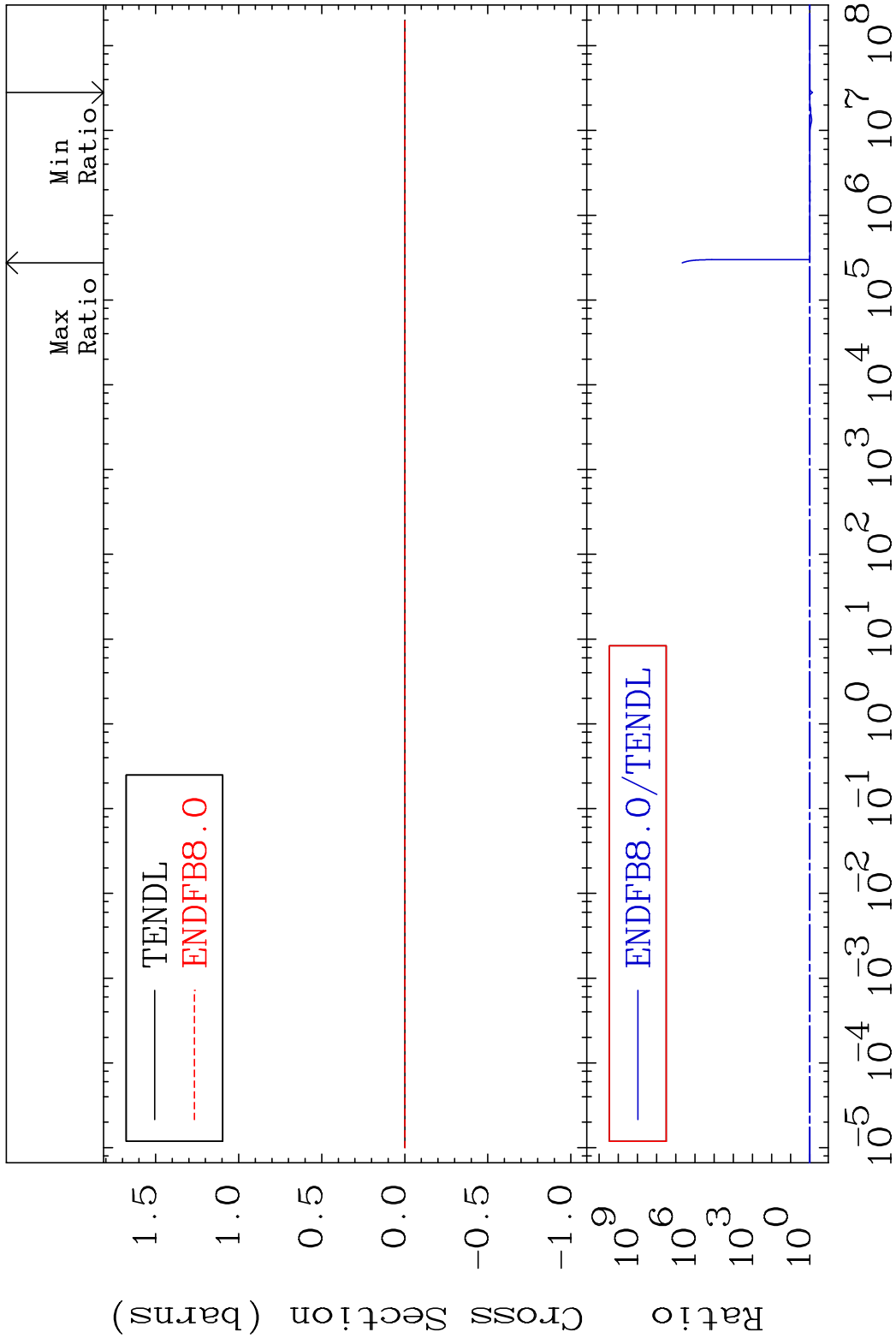


69 Incident Energy (eV) 61-Pm-143

MAT 6137 Kerma inelastic (mt51-91) 61-Pm-143
 Cross Section -26.96 To 9999. %

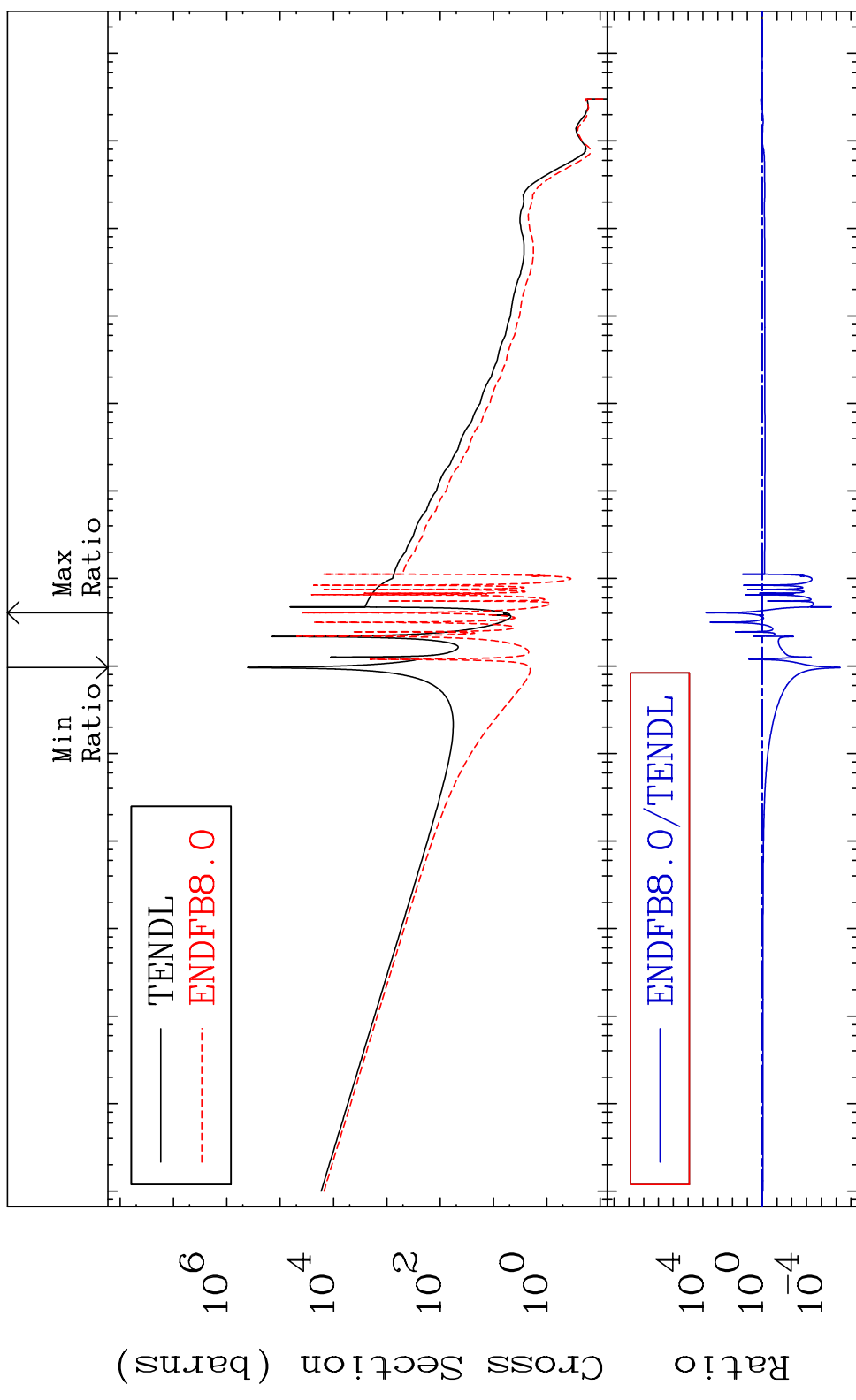


MAT 6137 Kerma fission (mt18 or mt19-20-21-38) 61-Pm-143
 Cross Section -26.96 To 9999. %

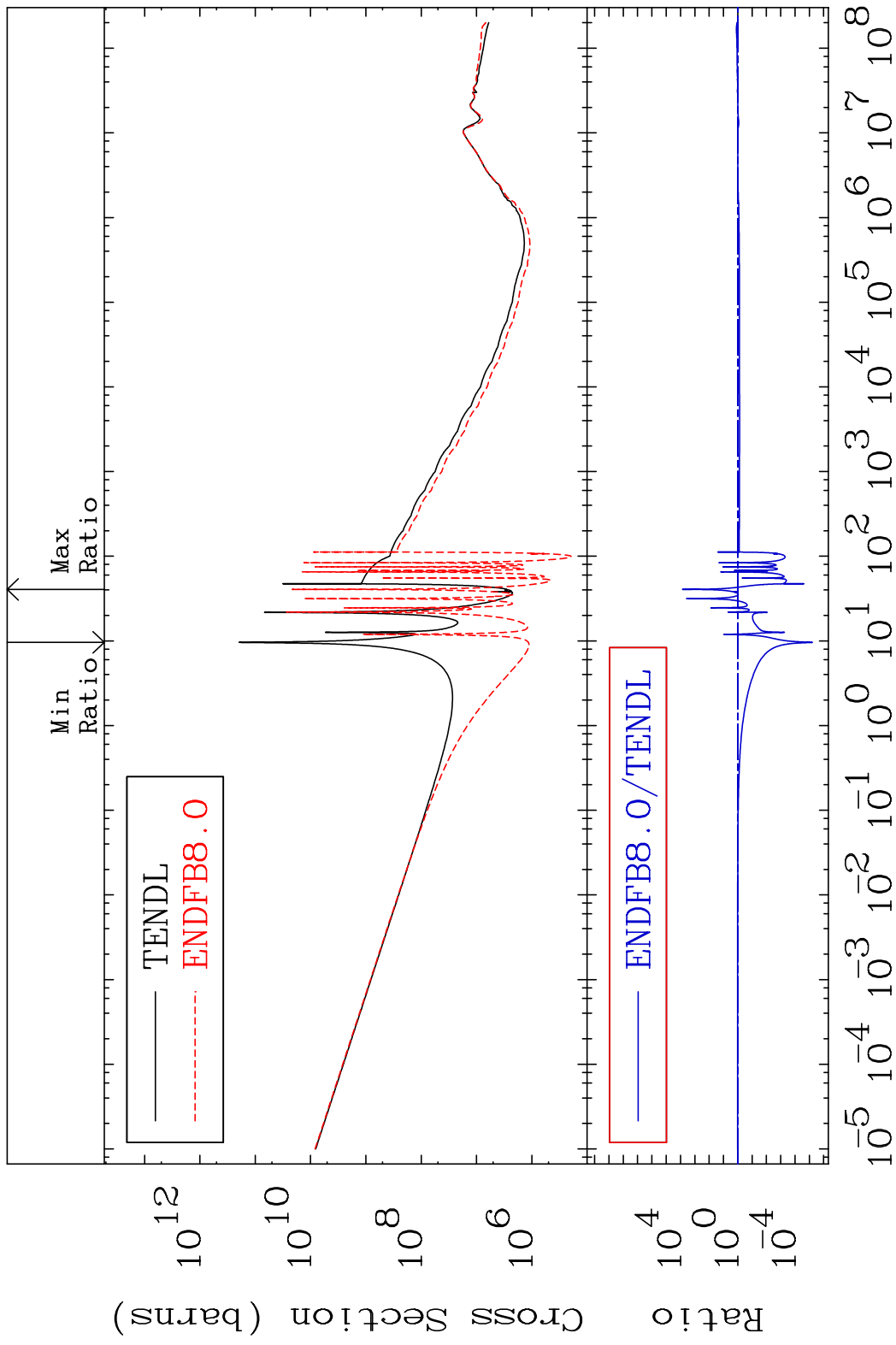


MAT 6137

Kerma capture (mt102) 61-Pm-143
Cross Section -100.0 To 9999. %

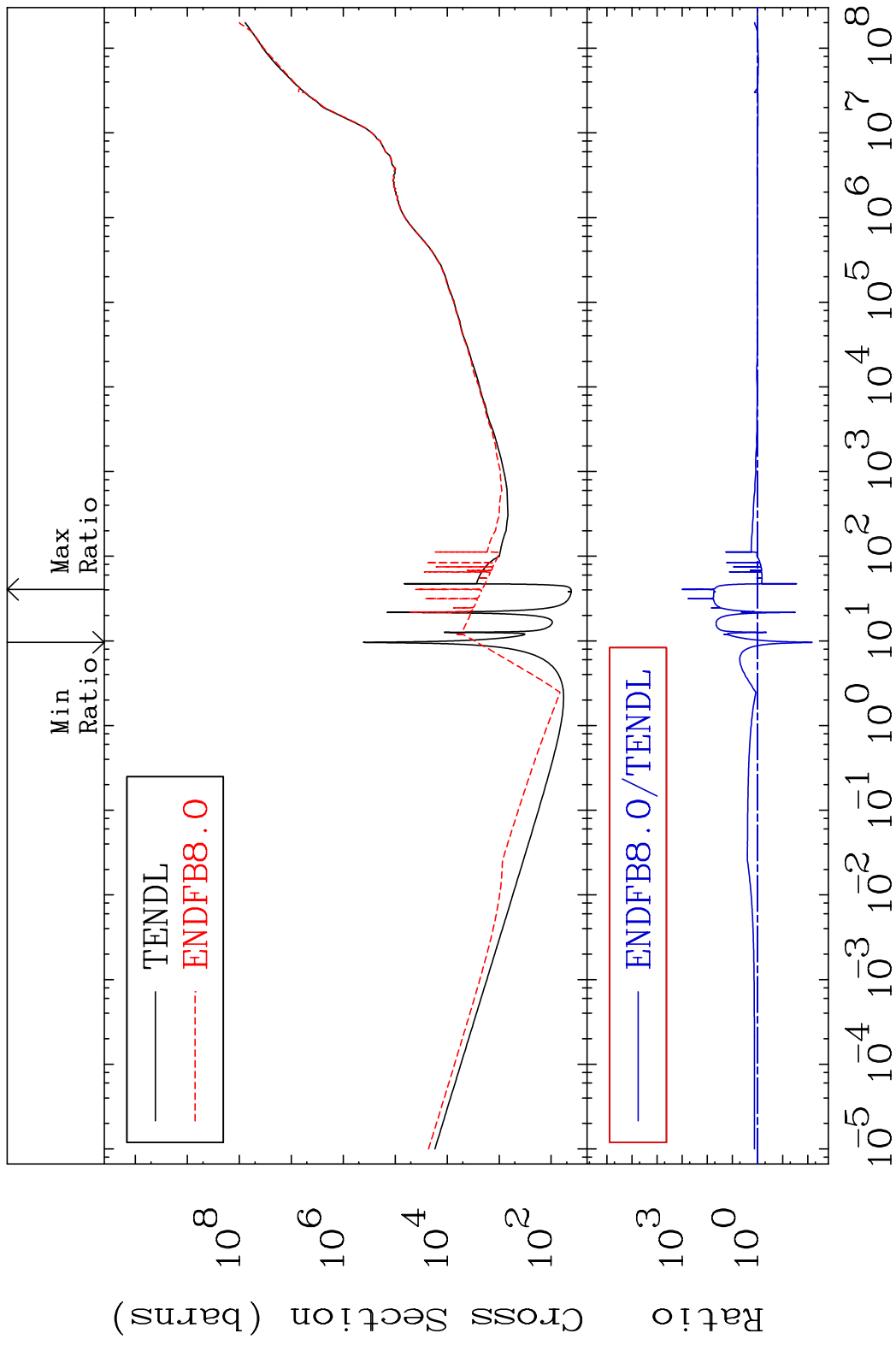


MAT 6137 Total photon (eV-barns) 61-Pm-143
 Cross Section -100.0 To 9999. %

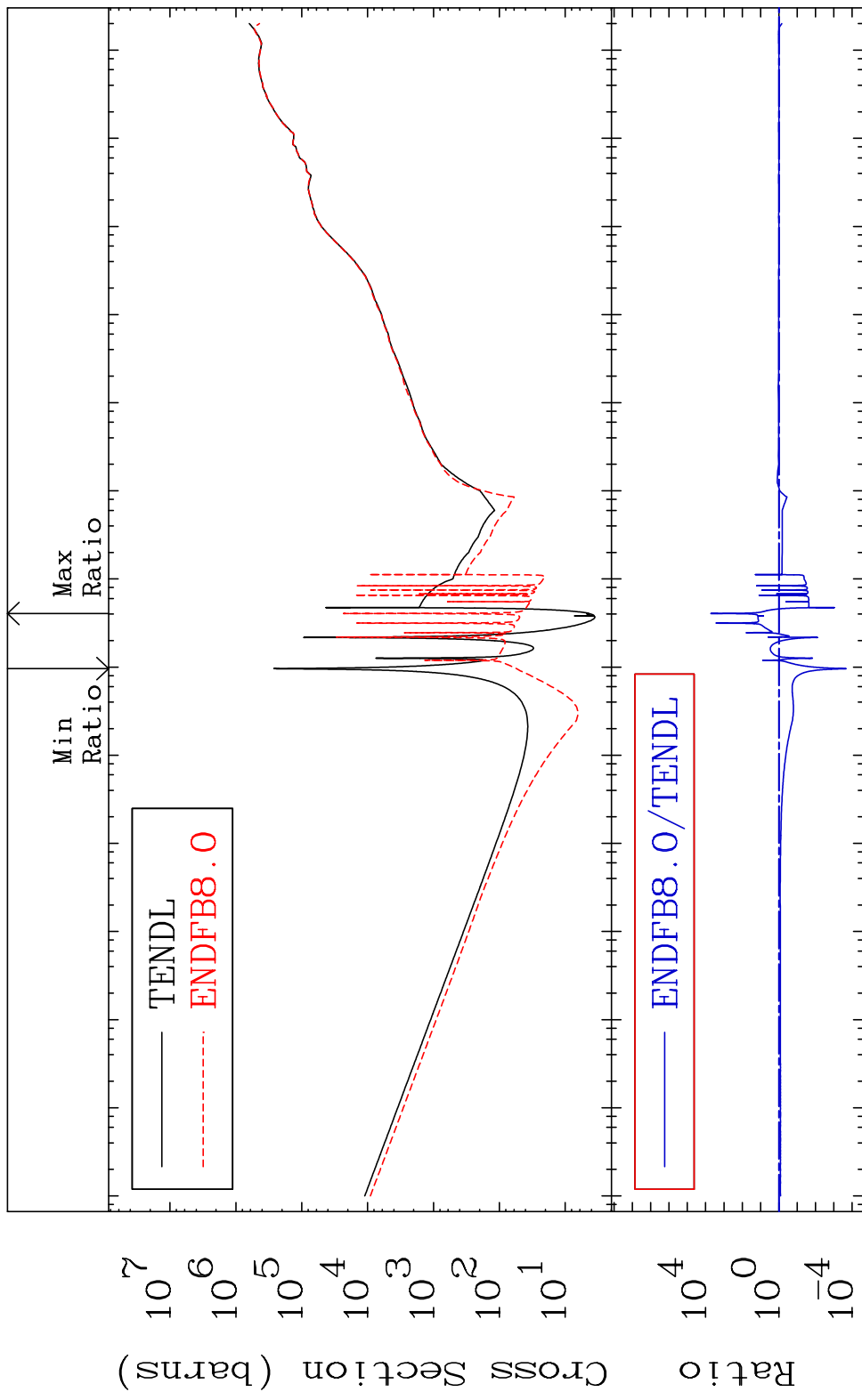


73 Incident Energy (eV) 61-Pm-143

MAT 6137 Total kinematic kerma (high limit) 61-Pm-143
 Cross Section -99.36 To 9999. %



MAT 6137 Dpa total (eV-barns) 61-Pm-143
 Cross Section -99.98 To 9999. %



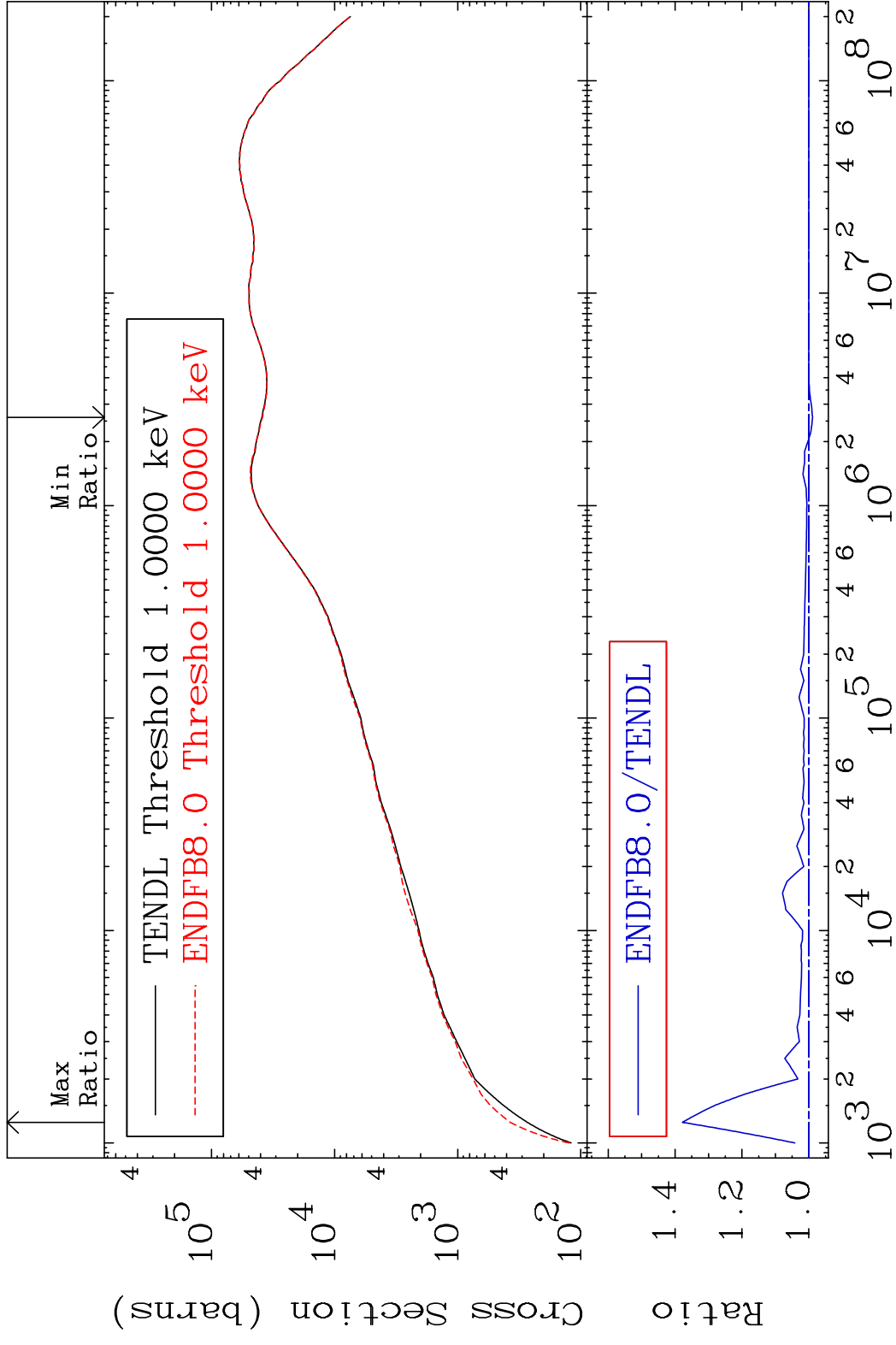
75 Incident Energy (eV) 61-Pm-143

MAT 6137

Dpa elastic (mt2)

61-Pm-143

Cross Section -1.113 To 37.83 %

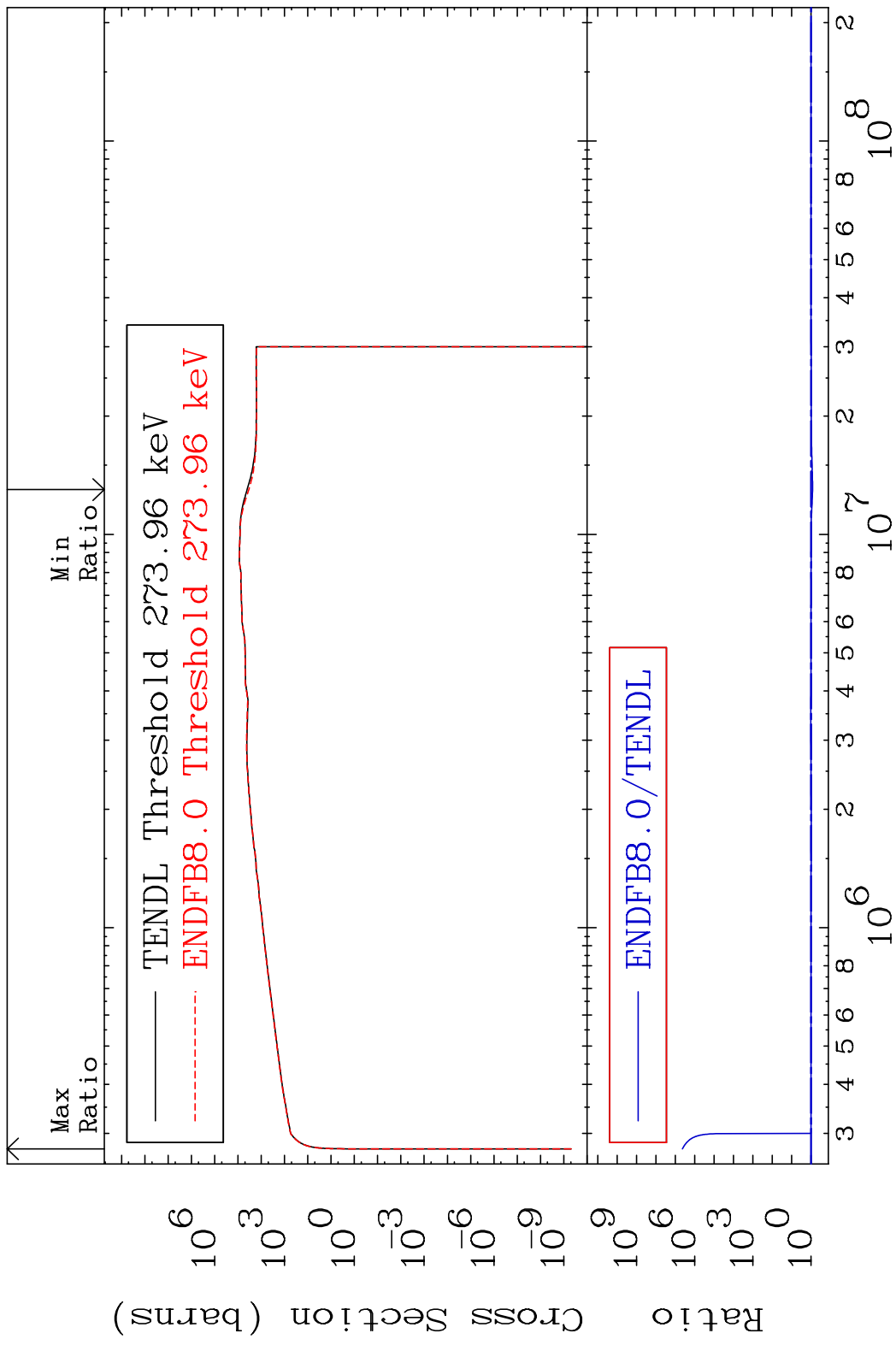


76

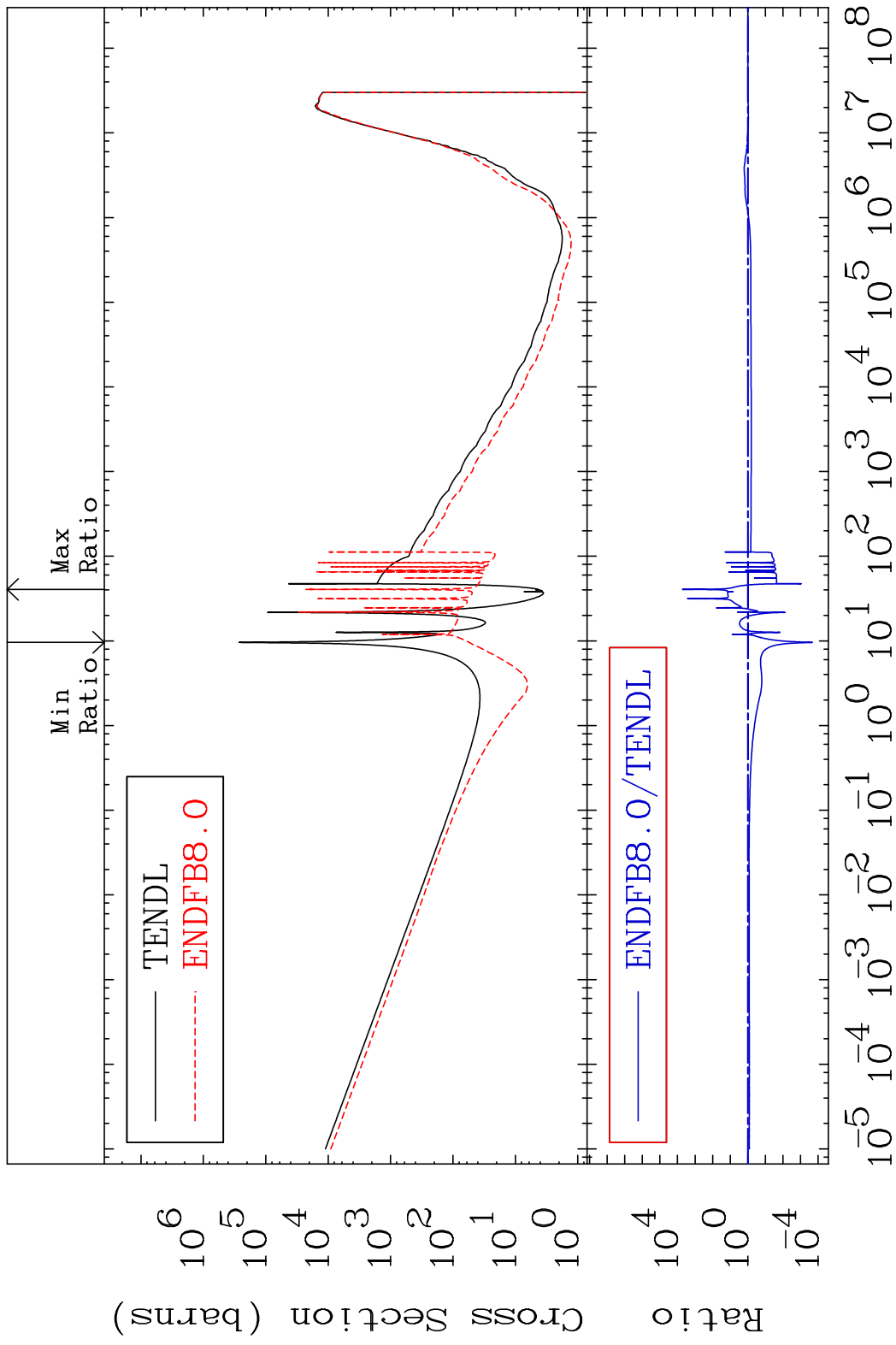
Incident Energy (eV)

61-Pm-143

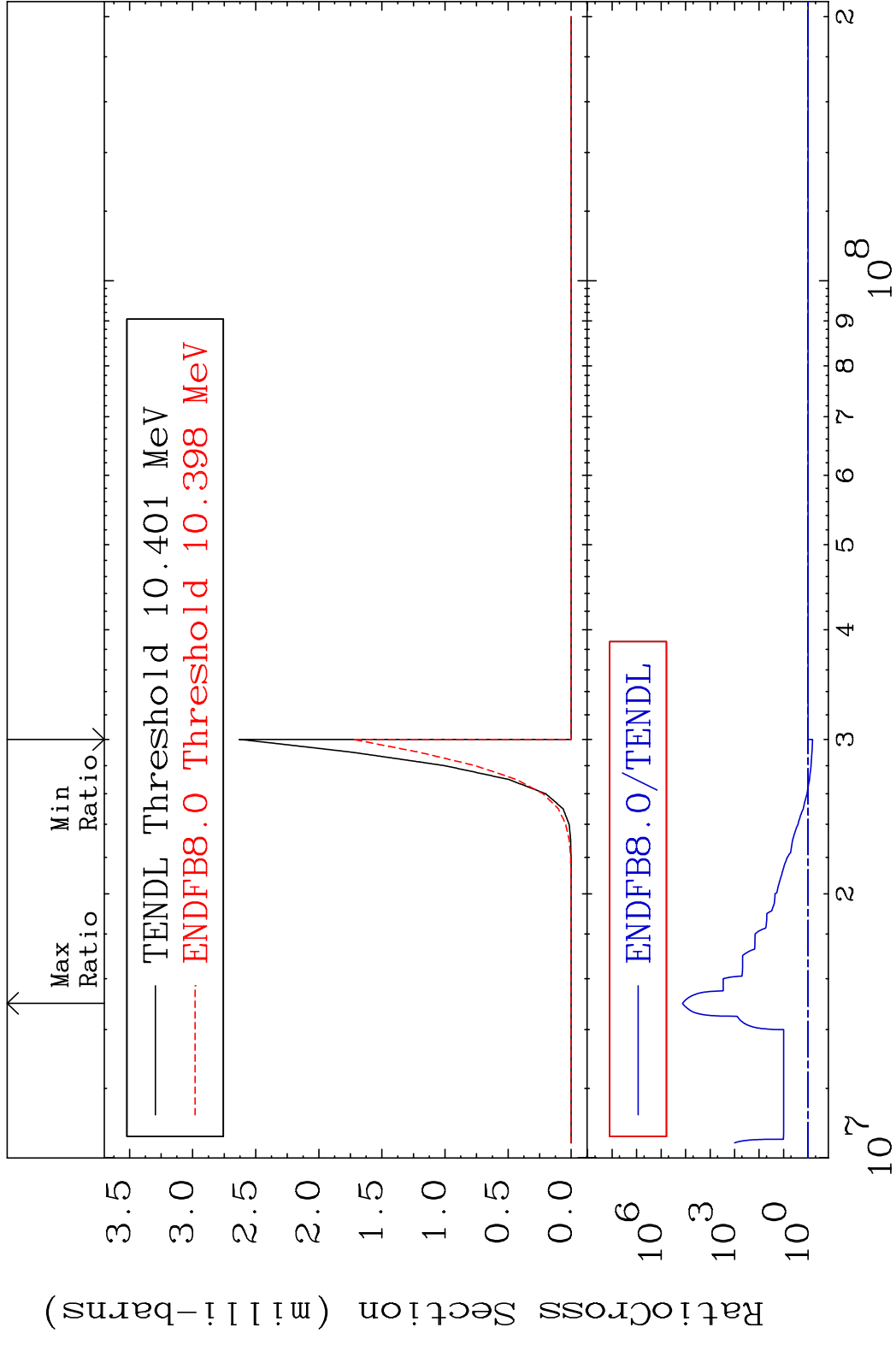
MAT 6137 Dpa inelastic (mt51-91) 61-Pm-143
 Cross Section -15.70 To 9999. %

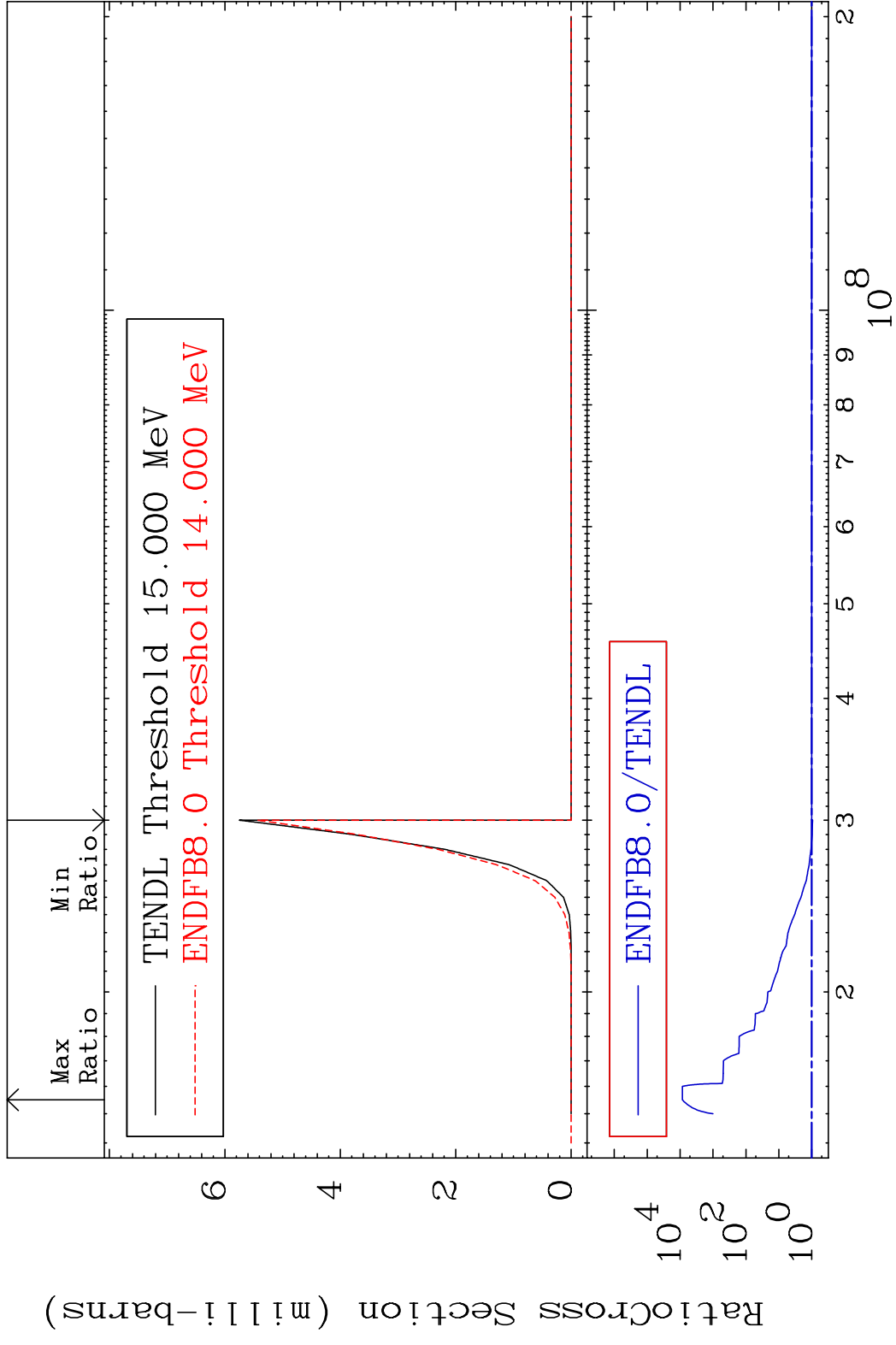


MAT 6137 Dpa disappearance (mt102 -120) 61-Pm-143
 Cross Section -99.98 To 9999. %

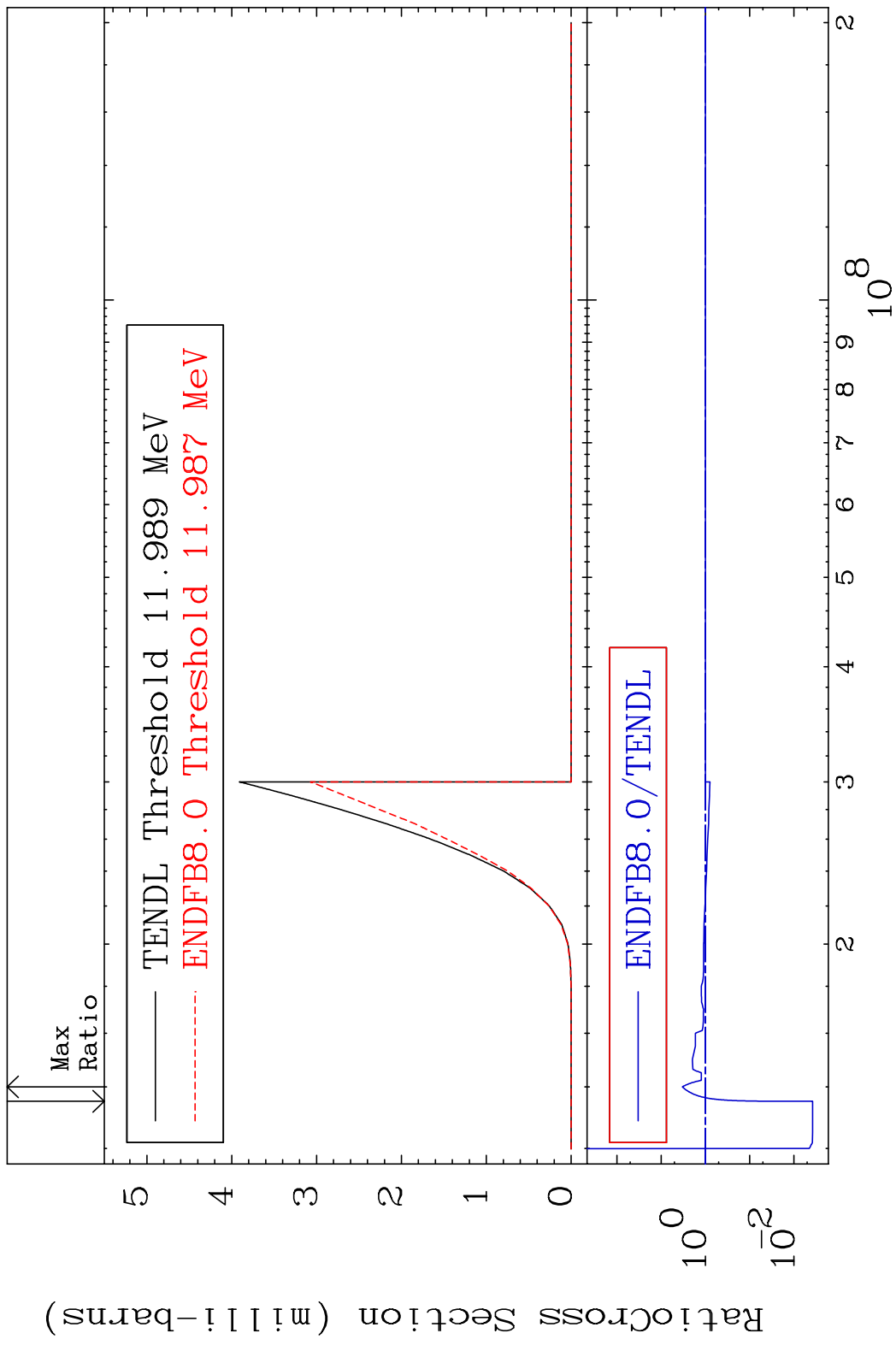


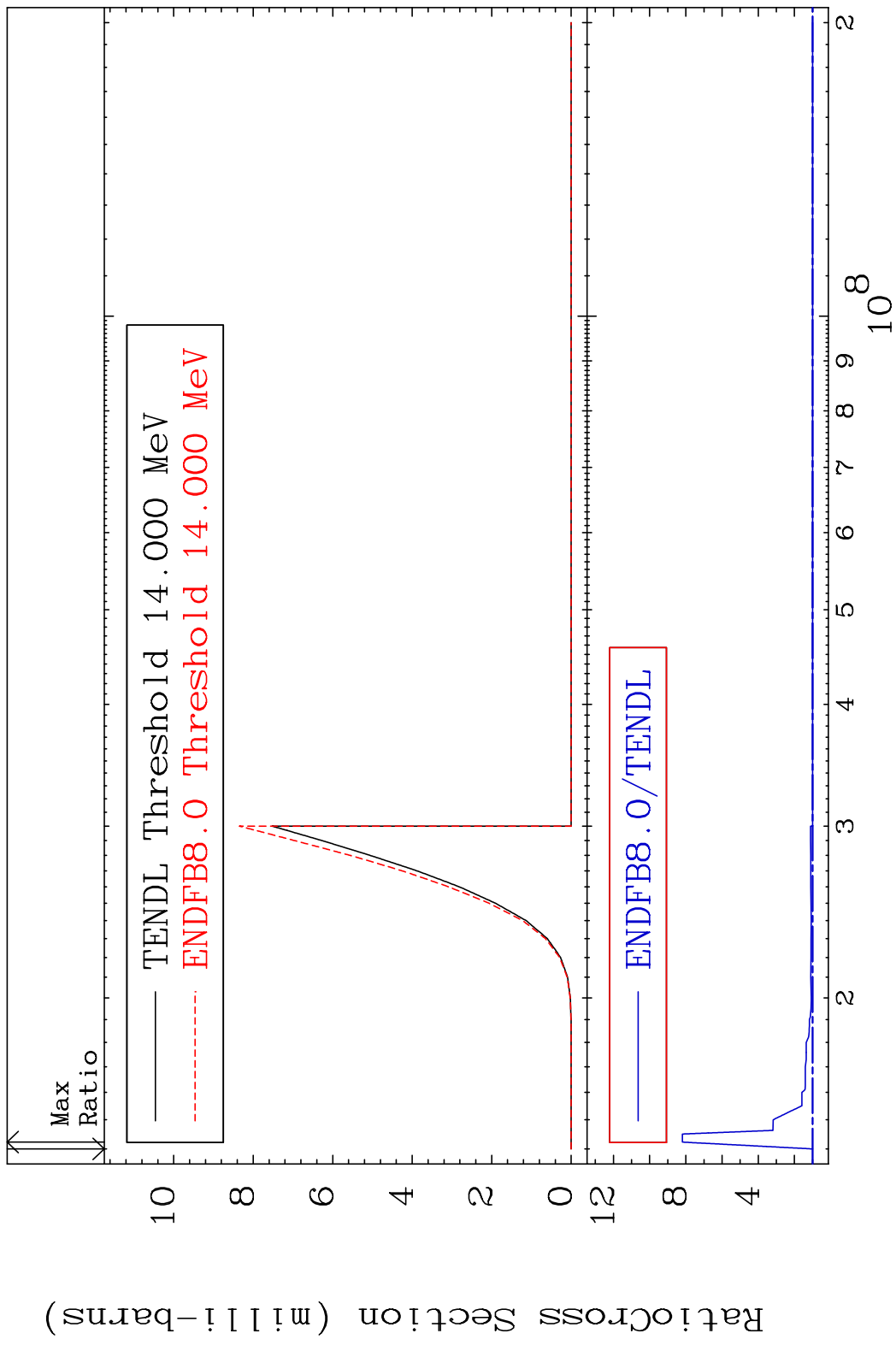
78 Incident Energy (eV) 61-Pm-143

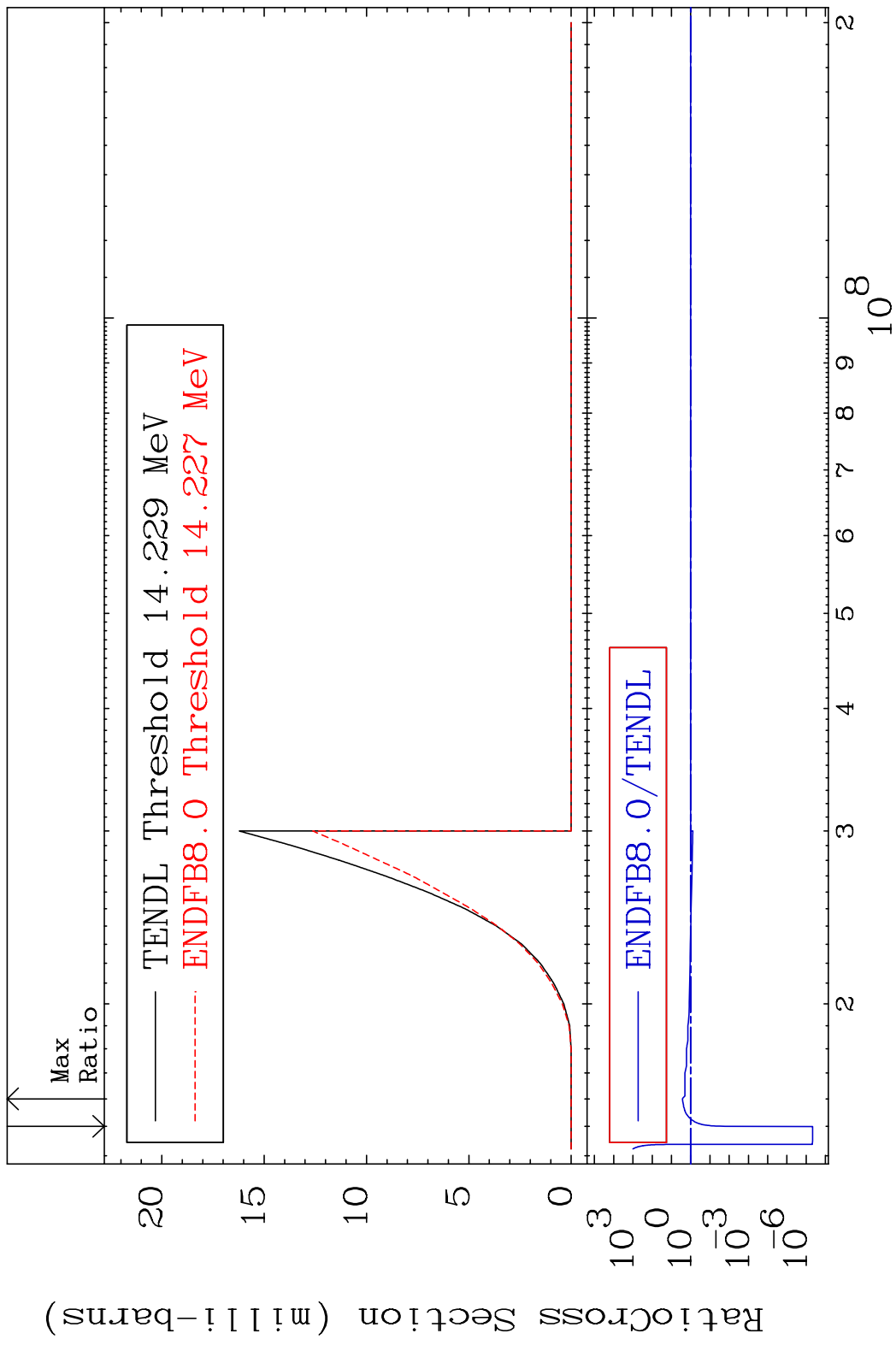


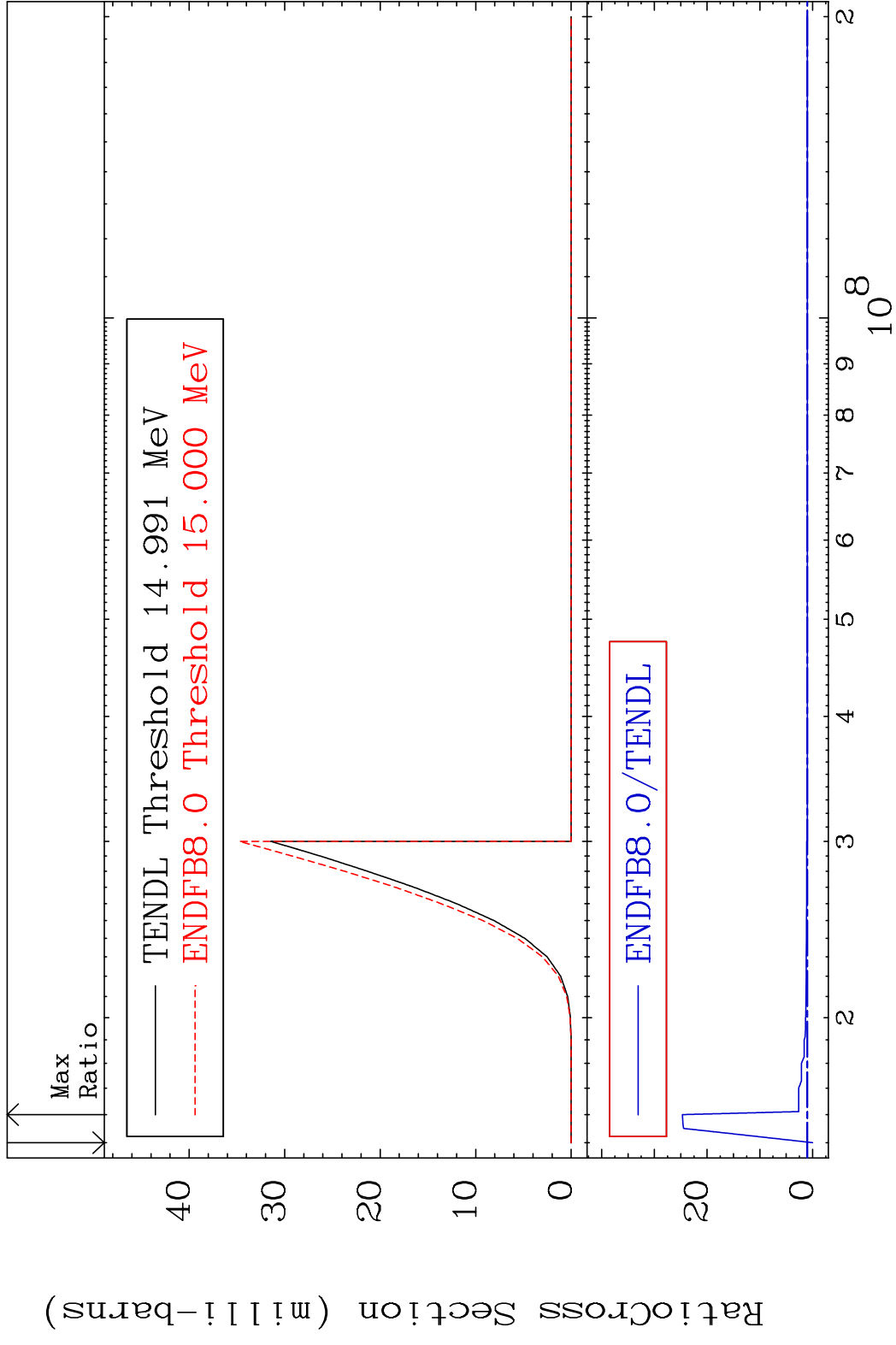


MAT 6137 (n, n') d:60-Nd-141g 61-Pm-143
 Radionuclide Production Cross Section 98.62 dth 231.1 %









MAT 6137 (n, t):60-Nd-141g 61-Pm-143
 Radionuclide Production Cross Section 13.54 %

