

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

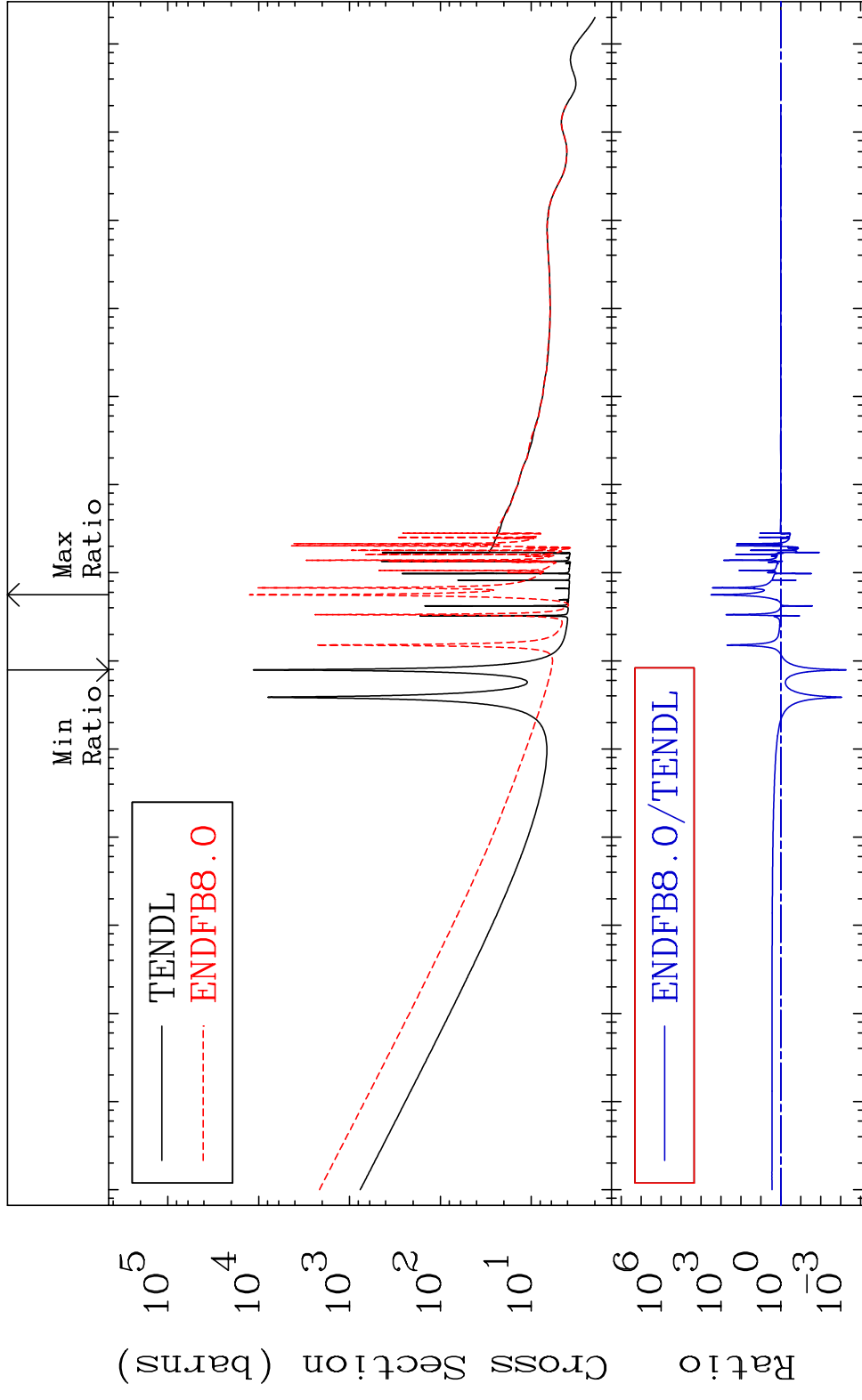
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 5053

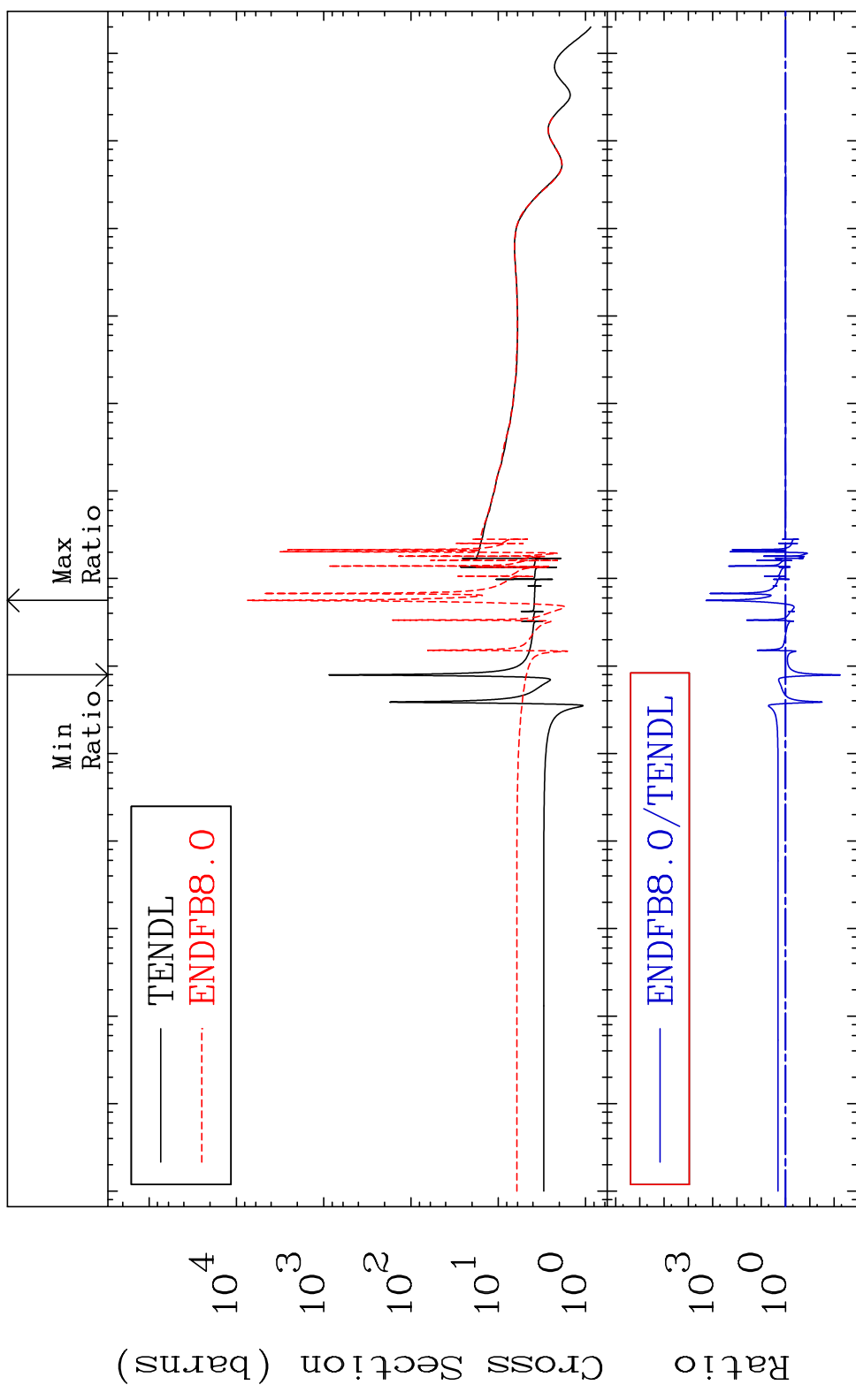
Total Cross Section -99.95 To 9999. %
50-Sn-121m



1 Incident Energy (eV) 50-Sn-121m

MAT 5053

Elastic Cross Section -99.45 To 9999. %
50-Sn-121m



Ratio

10⁴
10³
10²
10¹
10⁰

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

2 Incident Energy (eV) 50-Sn-121m

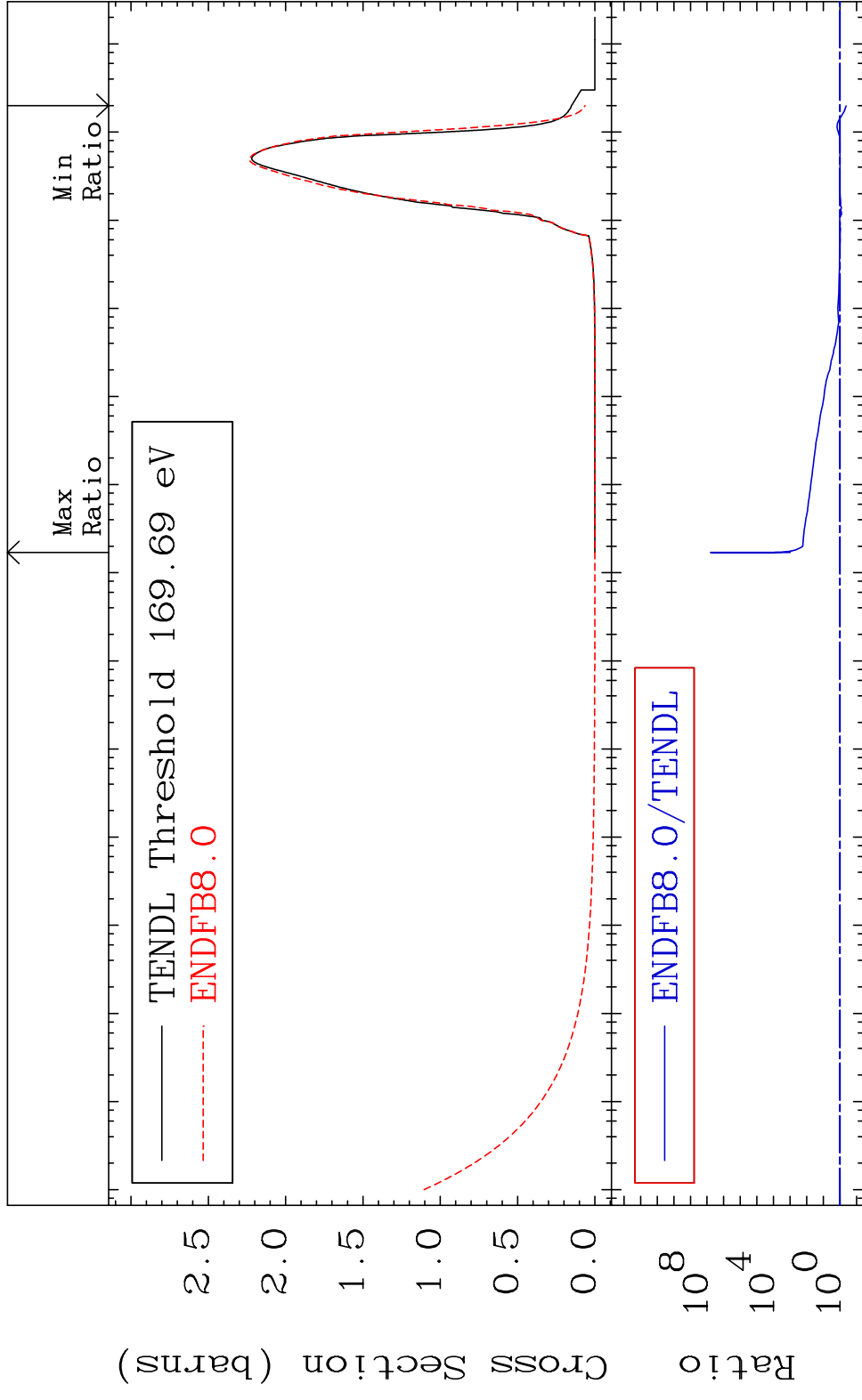
MAT 5053

Inelastic

50-Sn-121m

Cross Section

-58.40 To 9999. %



Max Ratio

Min Ratio

TENDL Threshold 169.69 eV
ENDFB8.0

ENDFB8.0/TENDL

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

3

Incident Energy (eV)

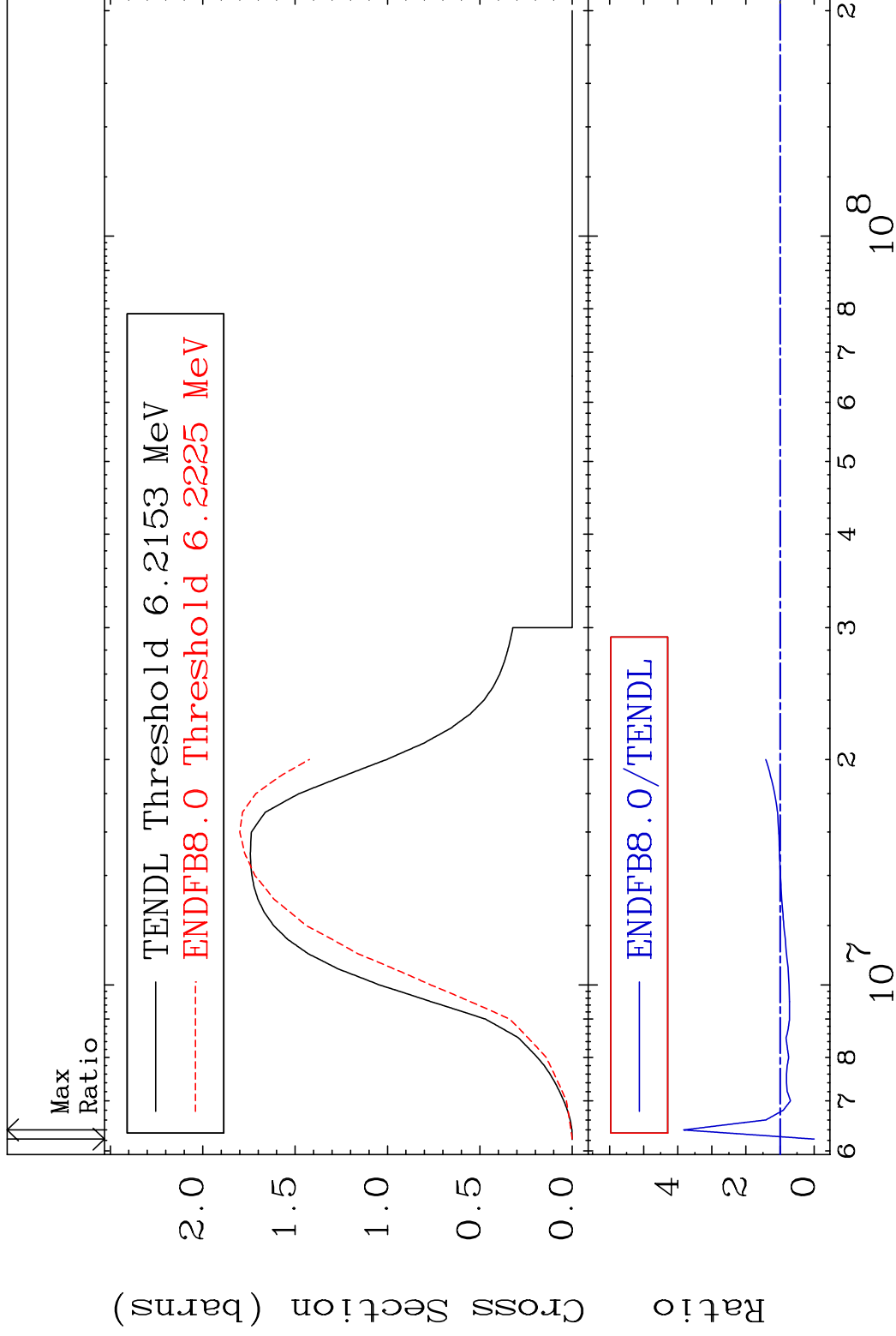
50-Sn-121m

MAT 5053

(n,2n)

50-Sn-121m

Cross Section -100.0 To 282.7 %

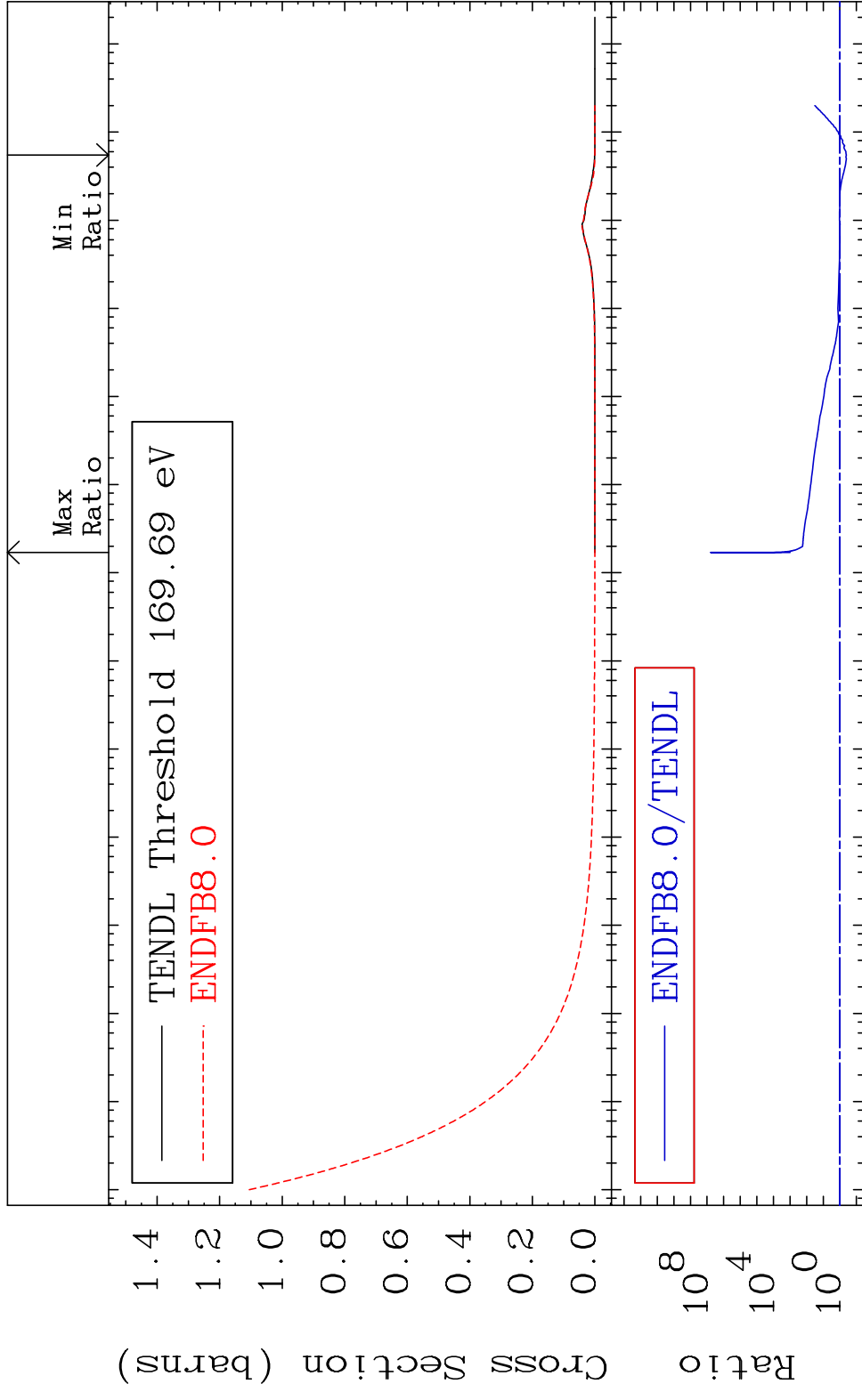


4

Incident Energy (eV)

50-Sn-121m

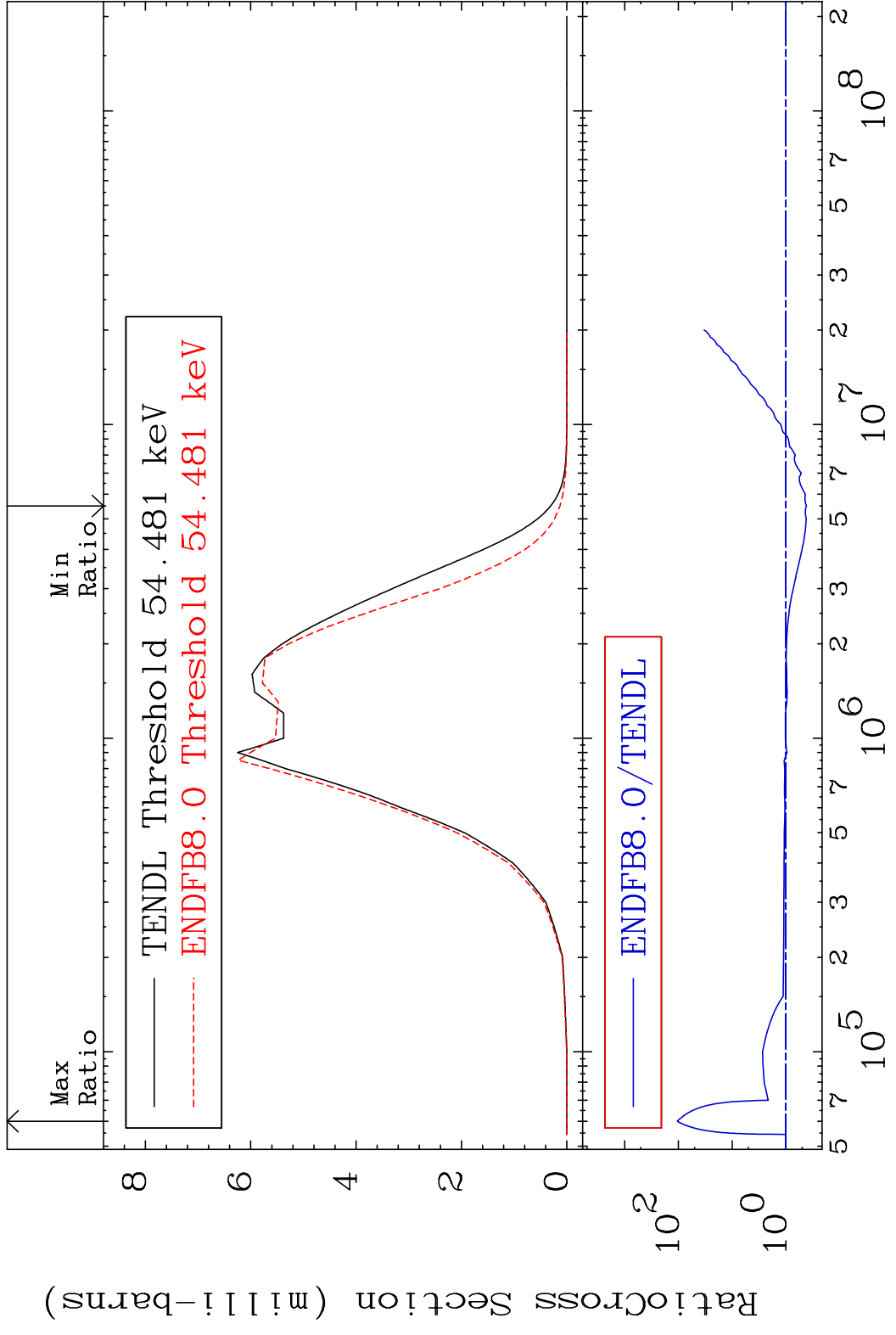
MAT 5053 MT= 51 (n,n') Level 50-Sn-121m
 Cross Section -59.32 To 9999. %



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

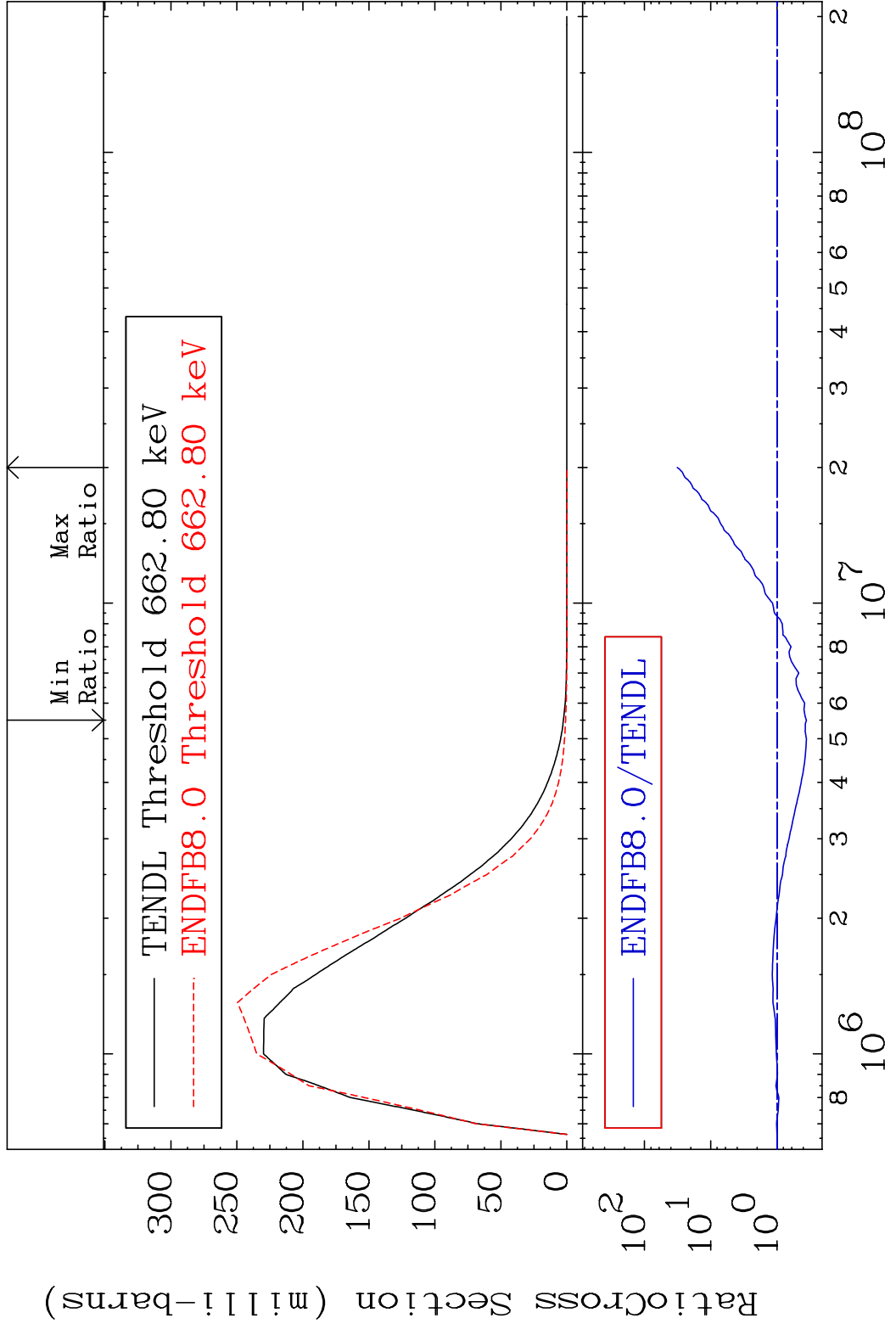
5 Incident Energy (eV) 50-Sn-121m

MAT 5053 MT= 52 (n,n') Level 50-Sn-121m
 Cross Section -58.33 To 9999. %



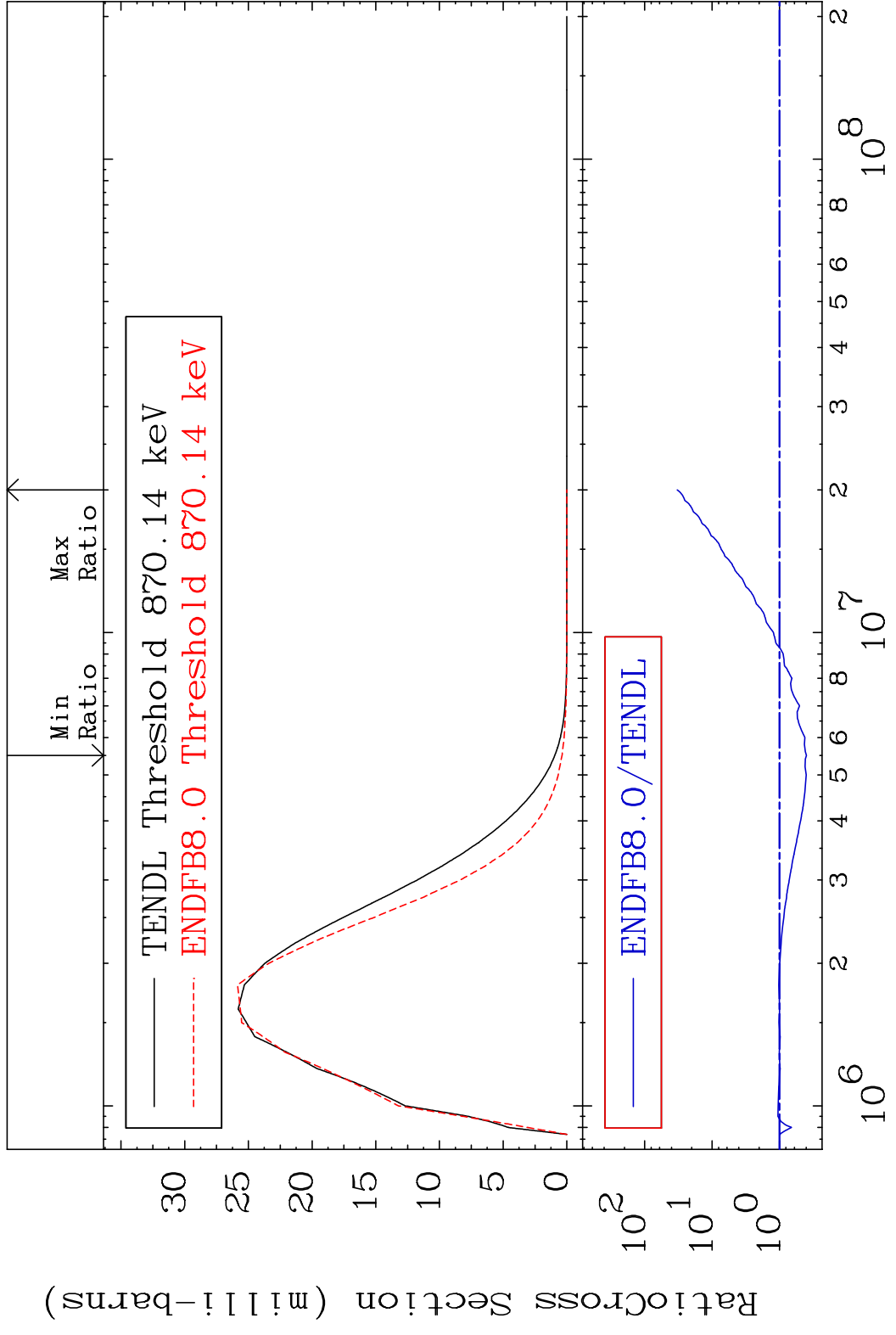
6 Incident Energy (eV) 50-Sn-121m

MAT 5053 MT= 53 (n, n') Level 50-Sn-121m
 Cross Section -64.04 To 3111. %



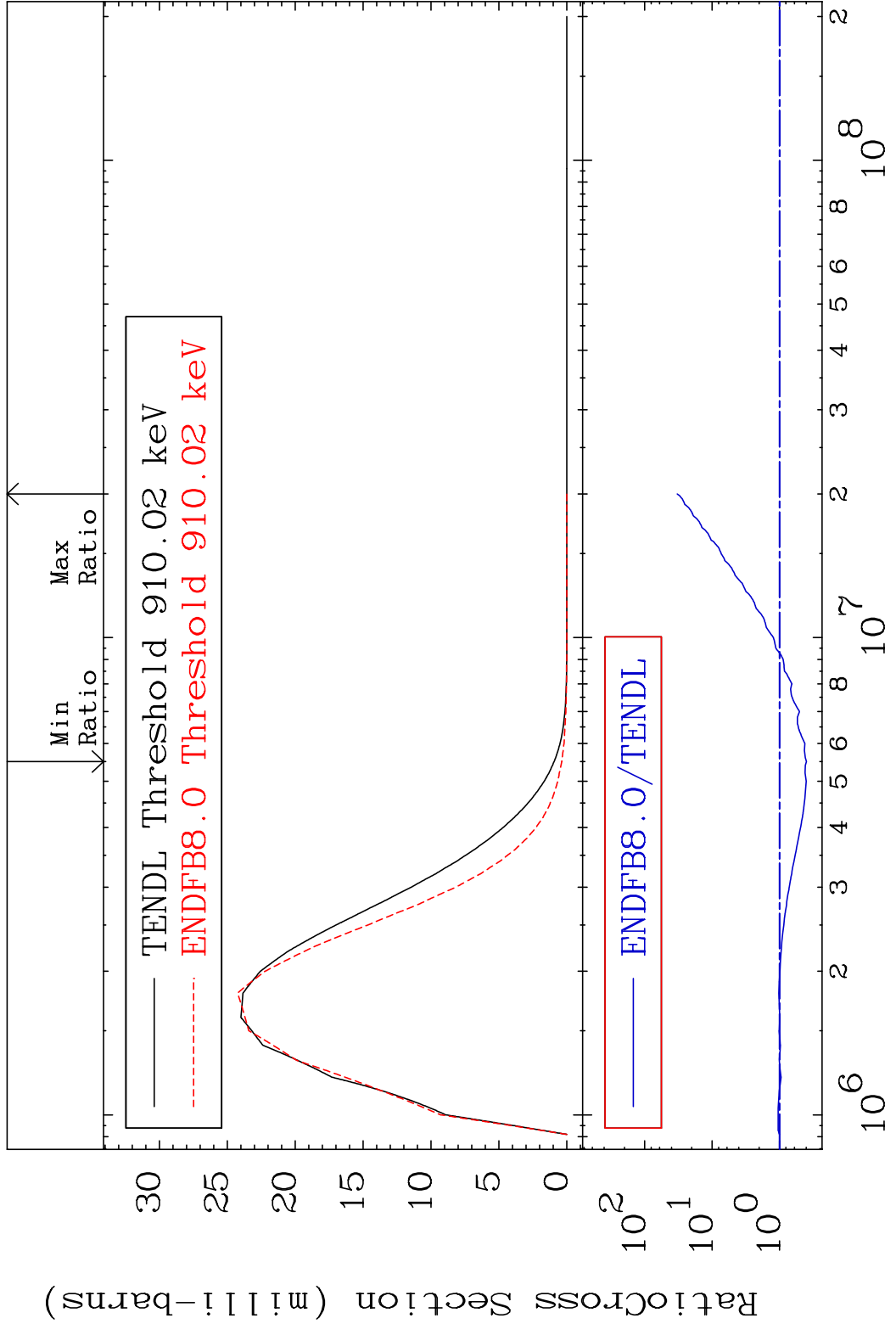
7 Incident Energy (eV) 50-Sn-121m

MAT 5053 MT= 54 (n, n') Level 50-Sn-121m
 Cross Section -60.27 To 3195. %



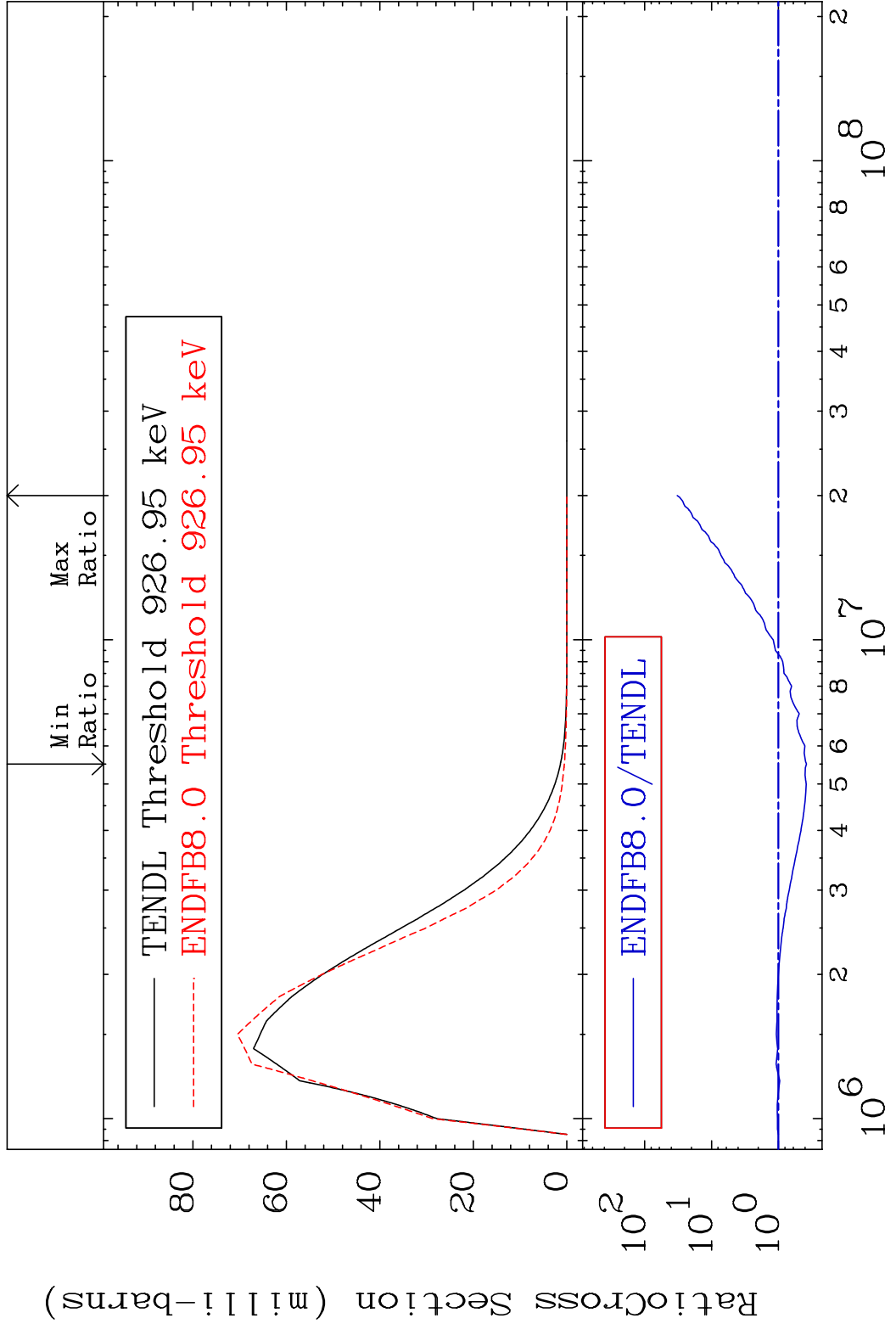
8 Incident Energy (eV) 50-Sn-121m

MAT 5053 MT= 55 (n, n') Level 50-Sn-121m
 Cross Section -60.24 To 3195. %



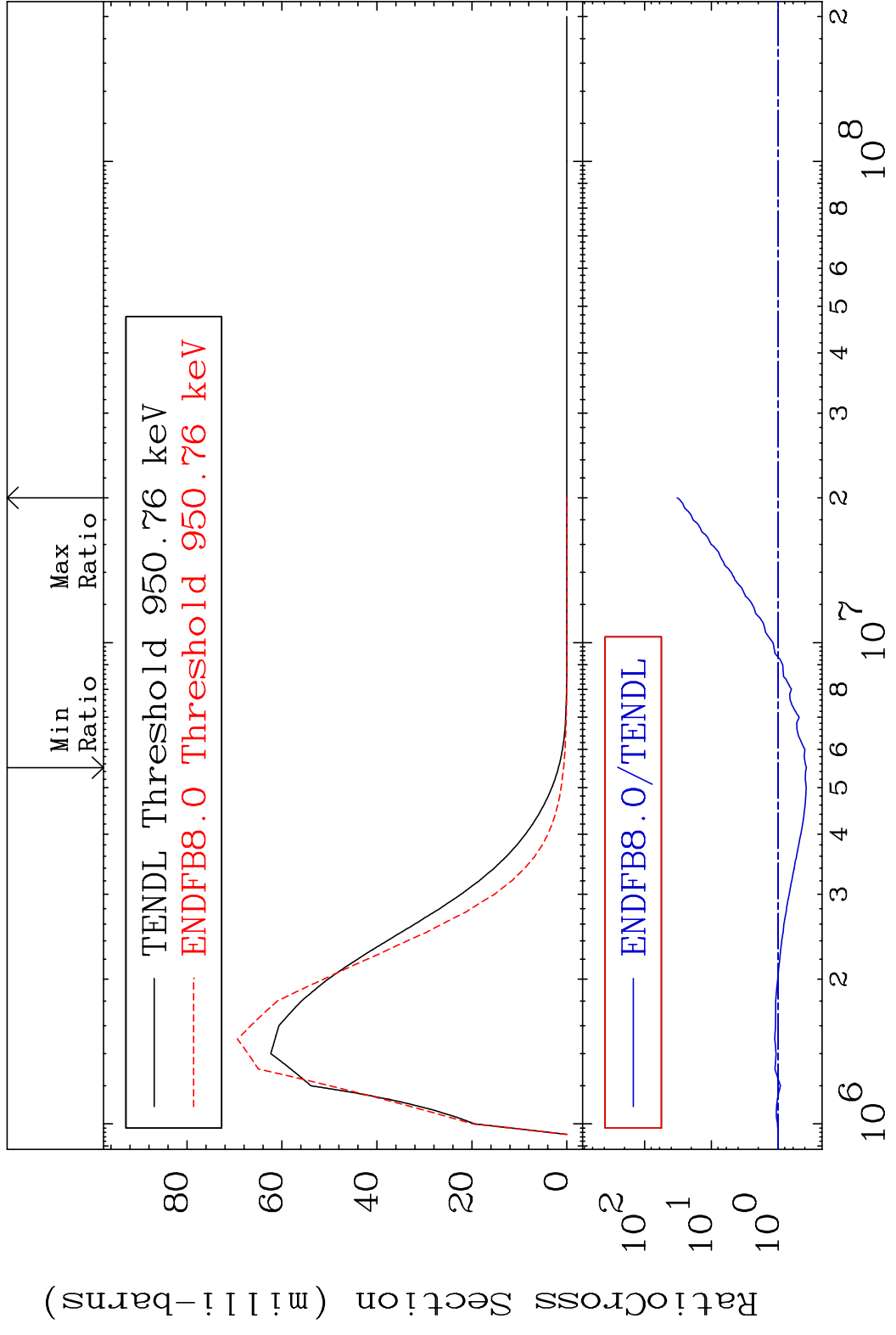
9 Incident Energy (eV) 50-Sn-121m

MAT 5053 MT= 56 (n, n') Level 50-Sn-121m
 Cross Section -61.82 To 3159. %



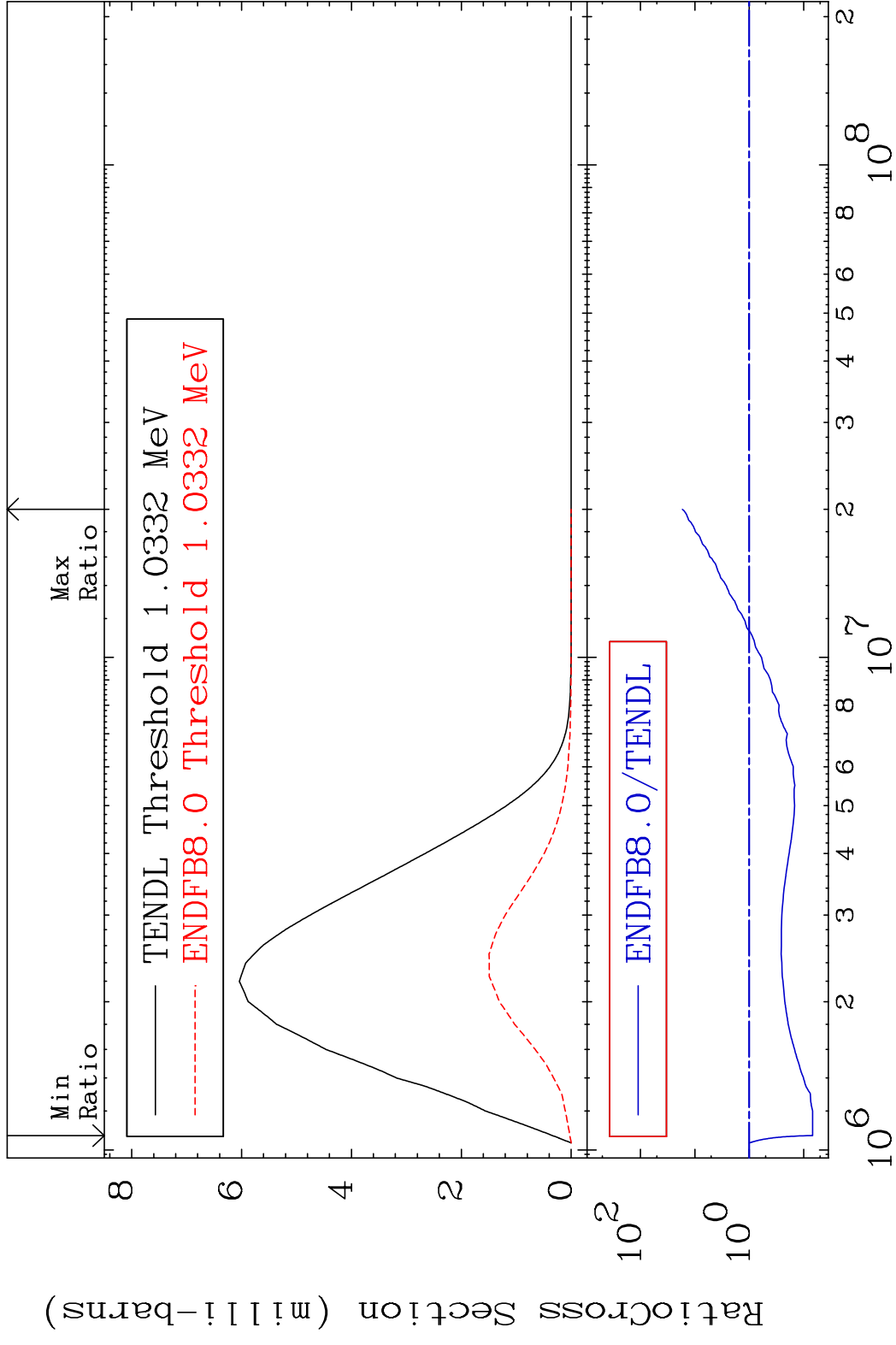
10 10⁶ 10⁷ 10⁸ 2 3 4 5 6 8

MAT 5053 MT= 57 (n, n') Level 50-Sn-121m
 Cross Section -62.10 To 3159. %



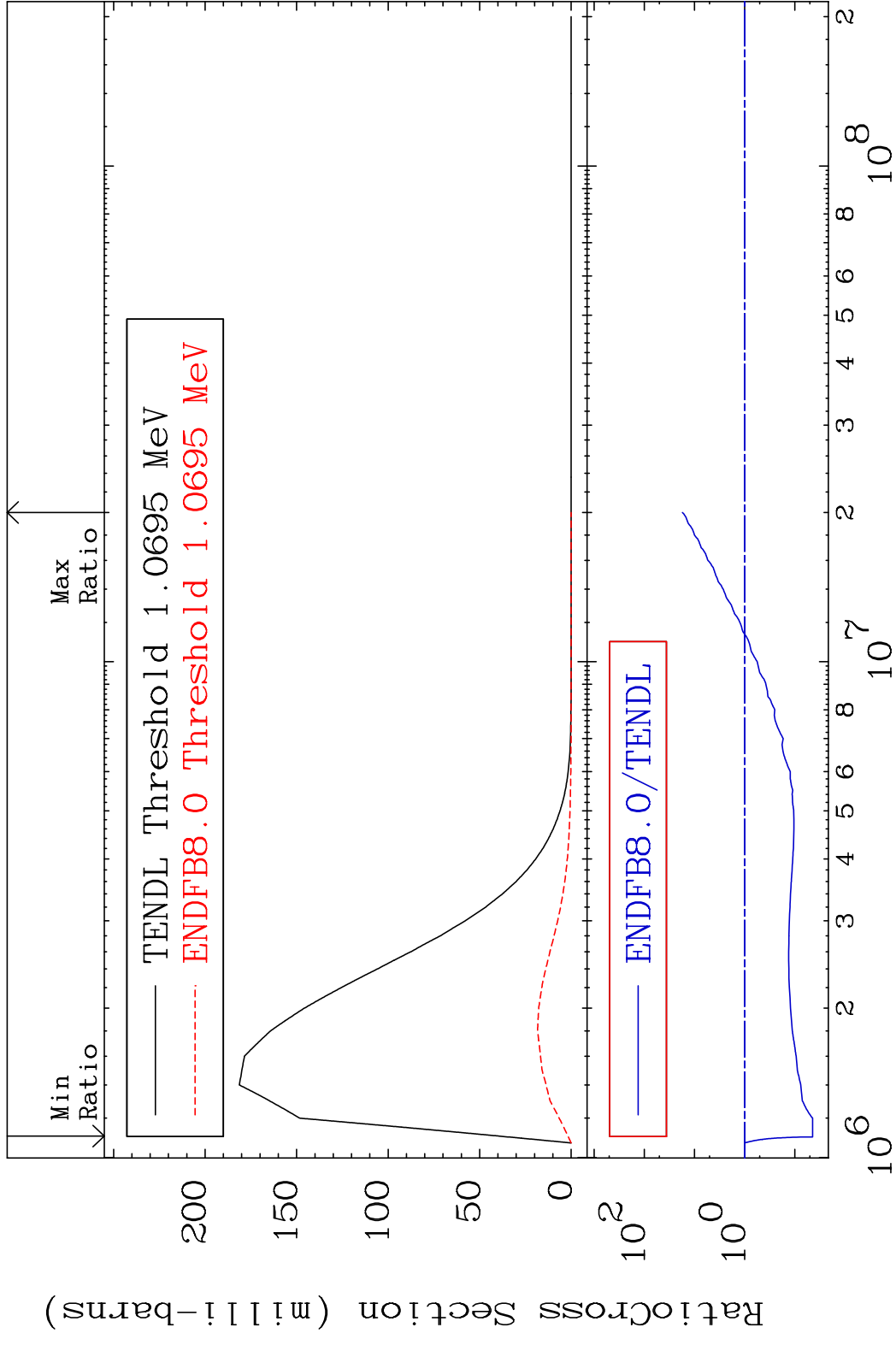
11 Incident Energy (eV) 50-Sn-121m

MAT 5053 MT= 58 (n, n') Level 50-Sn-121m
 Cross Section -93.12 To 1595. %



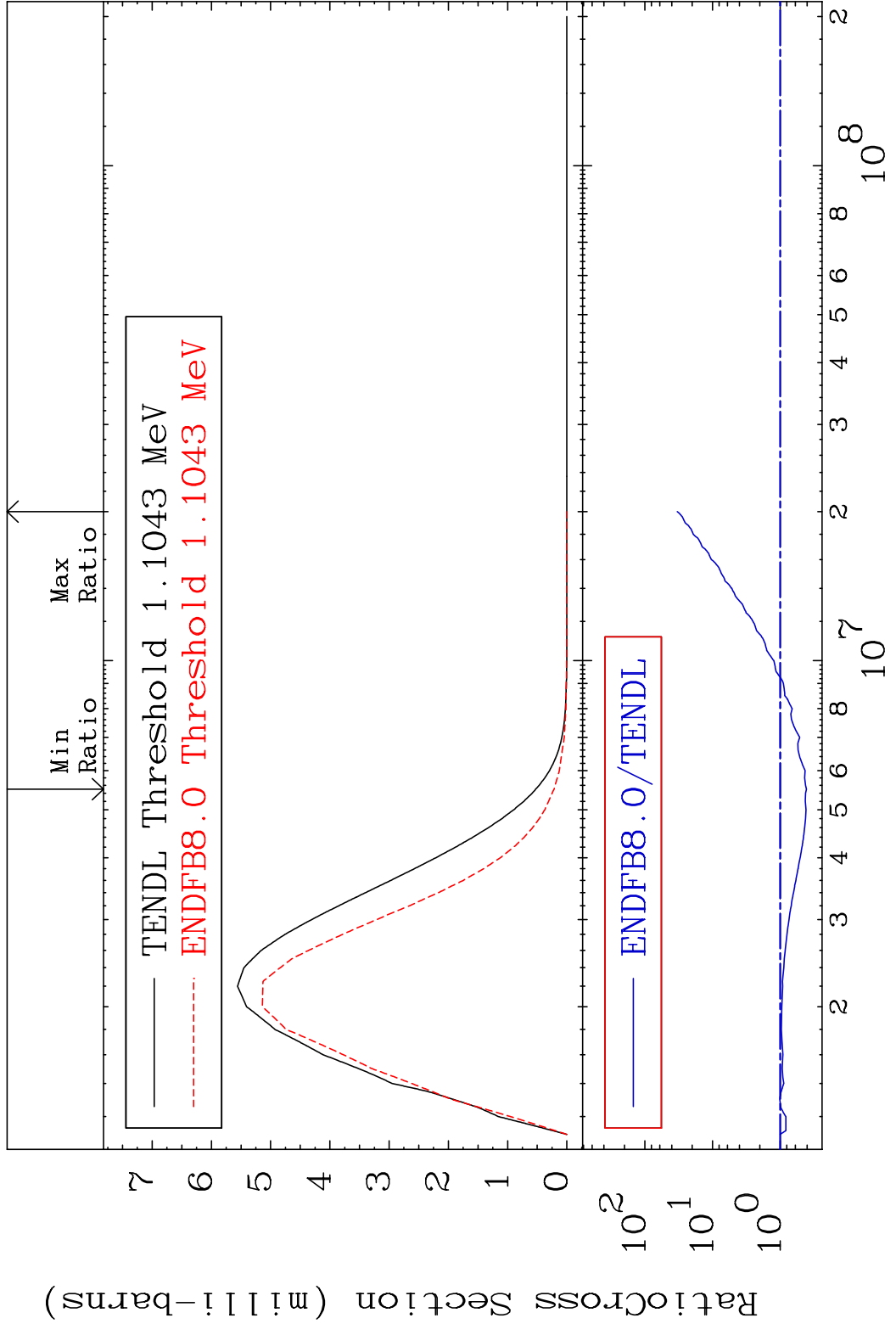
12 Incident Energy (eV) 50-Sn-121m

MAT 5053 MT= 59 (n, n') Level 50-Sn-121m
 Cross Section -95.59 To 1644. %

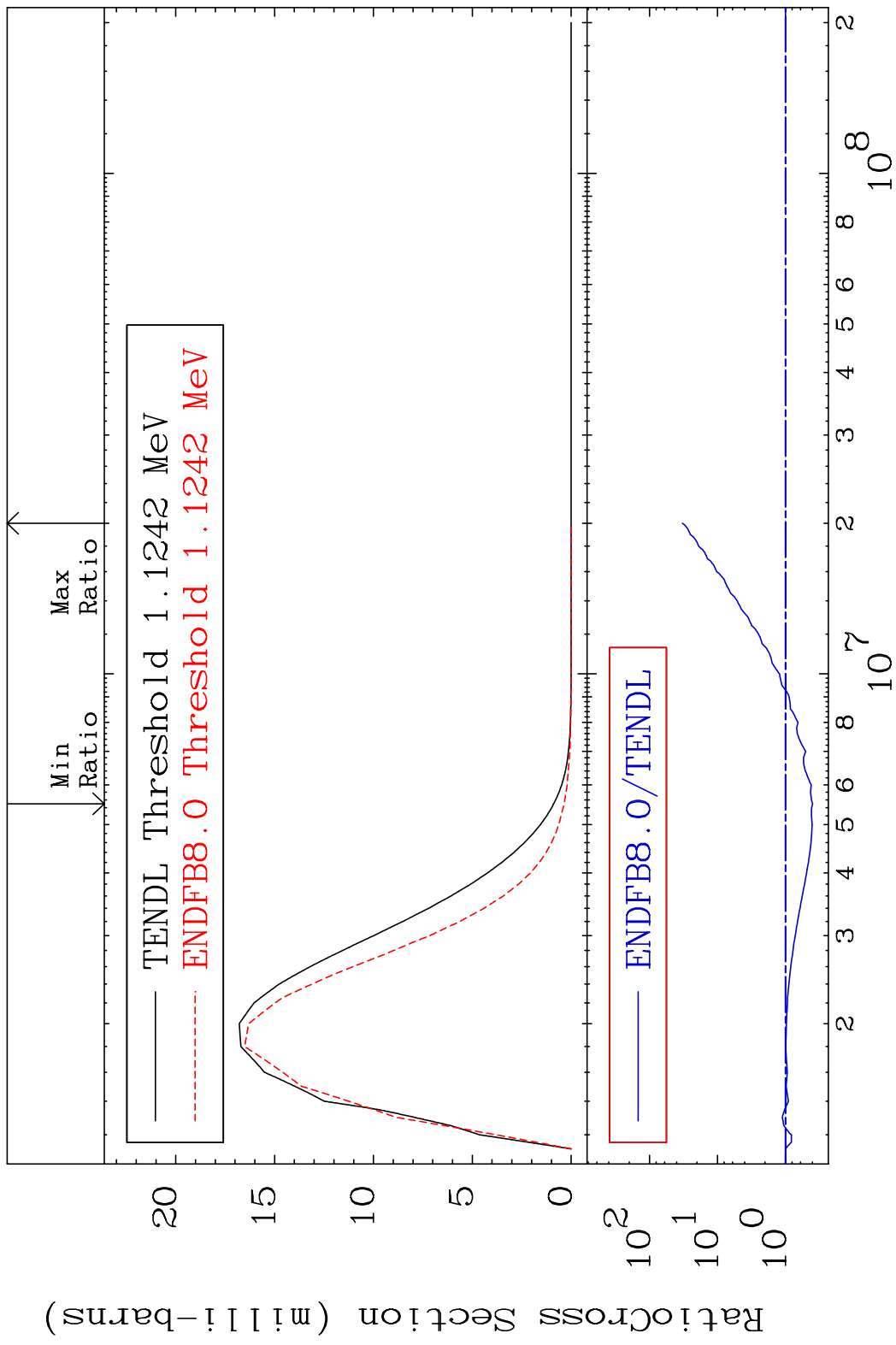


13 Incident Energy (eV) 50-Sn-121m

MAT 5053 MT= 60 (n, n') Level 50-Sn-121m
 Cross Section -58.85 To 3223. %

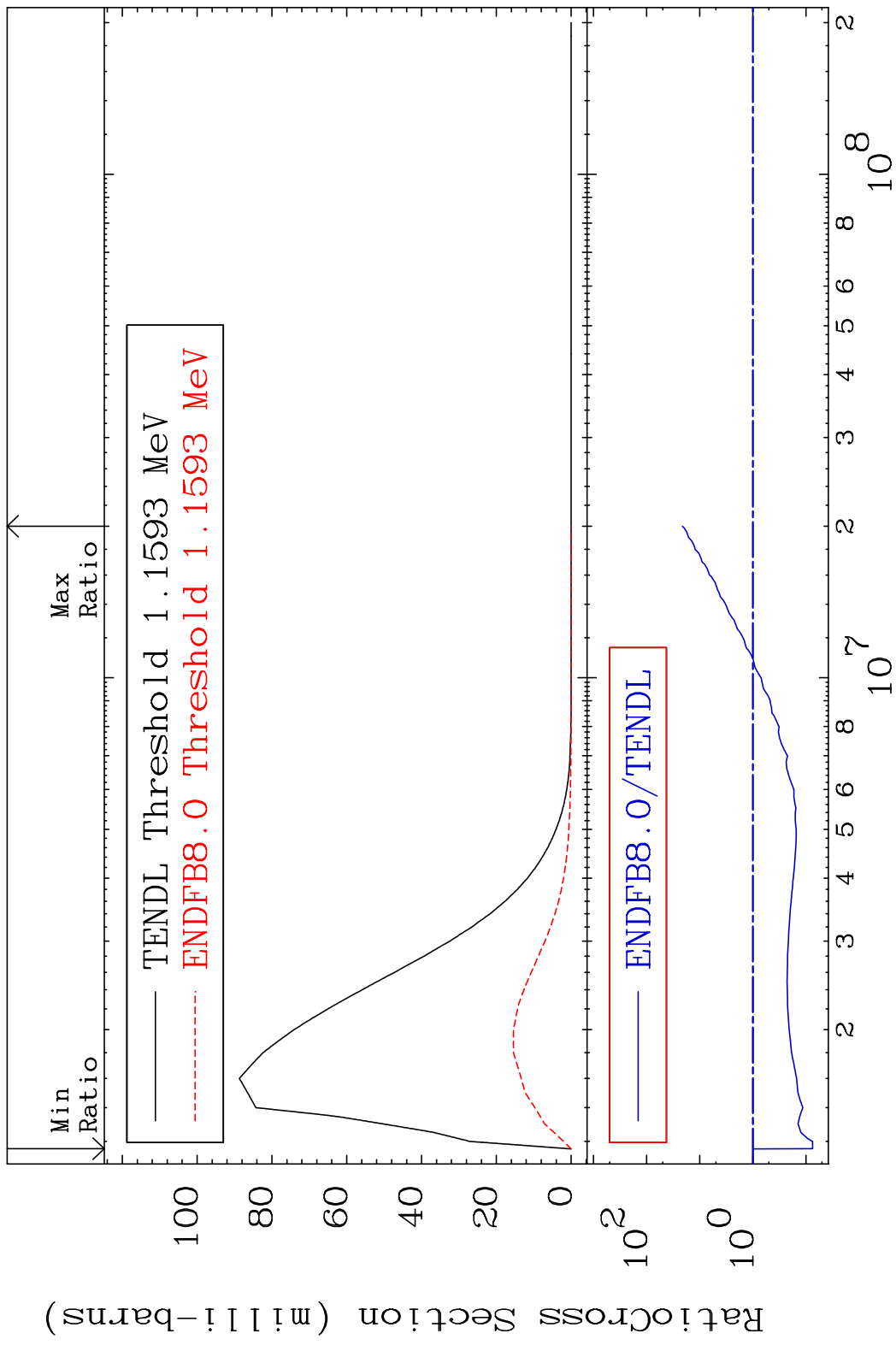


MAT 5053 MT= 61 (n, n') Level 50-Sn-121m
 Cross Section -60.11 To 3197. %

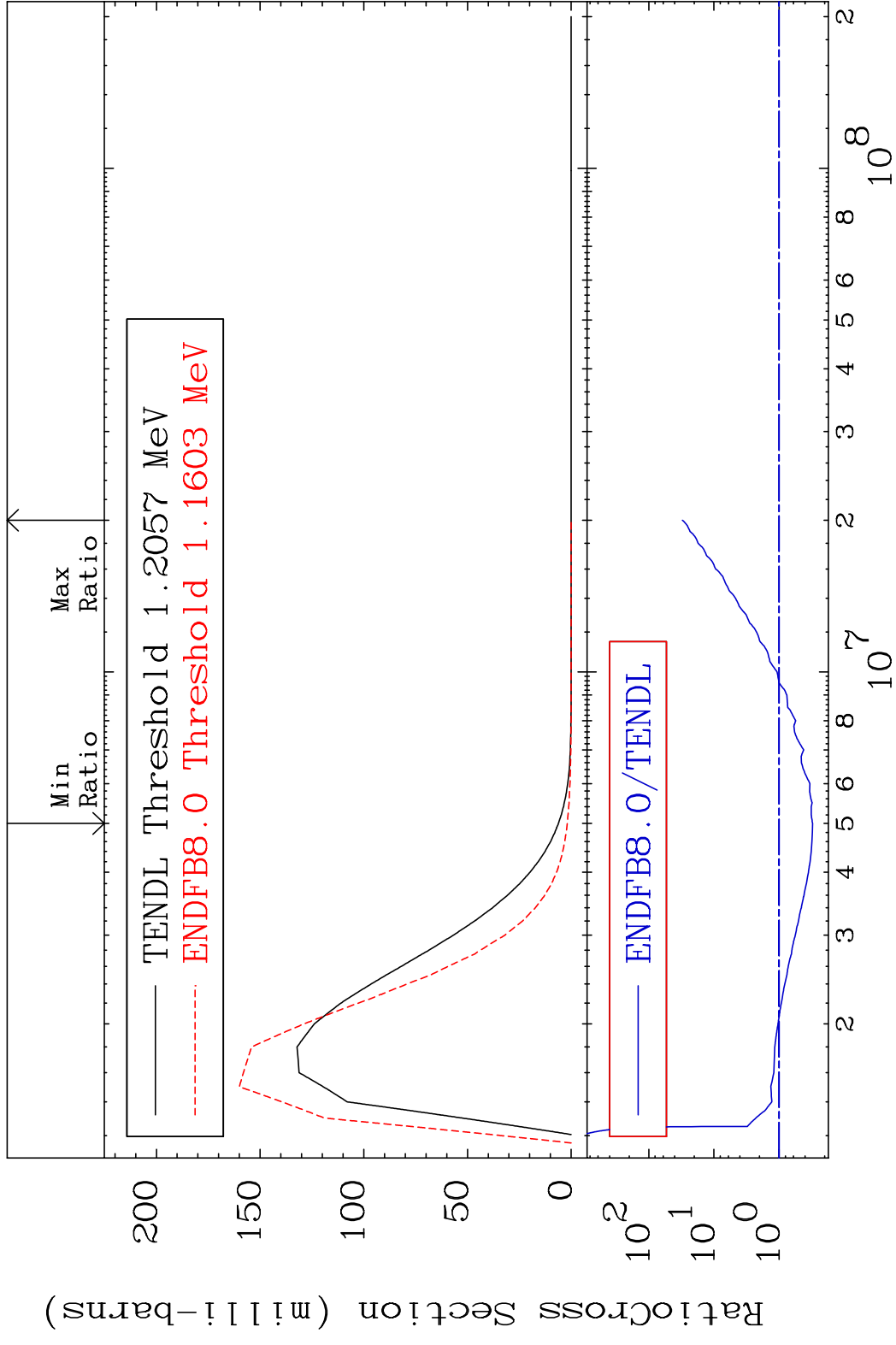


15 Incident Energy (eV) 50-Sn-121m

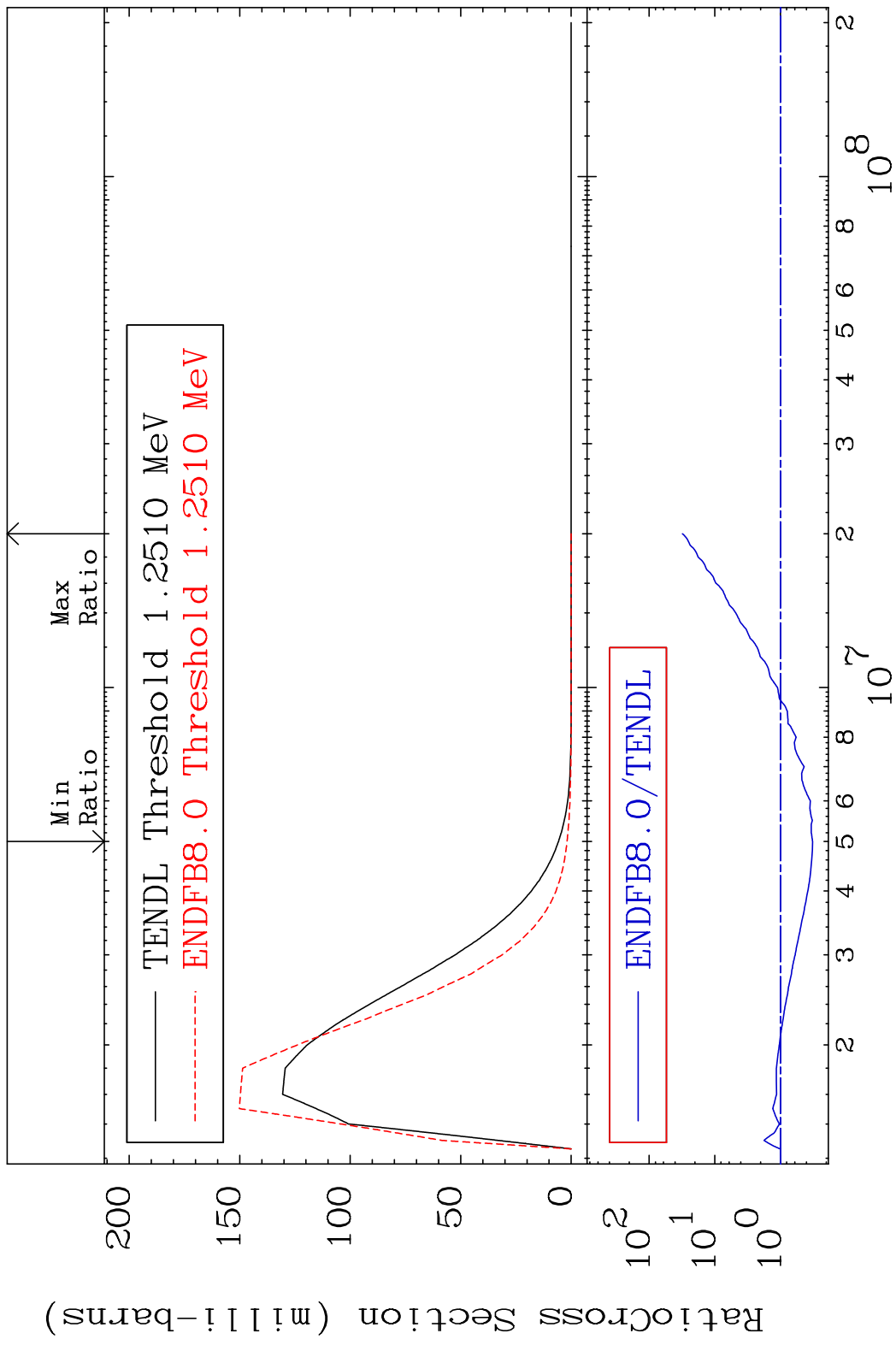
MAT 5053 MT= 62 (n, n') Level 50-Sn-121m
 Cross Section -92.45 To 2031. %



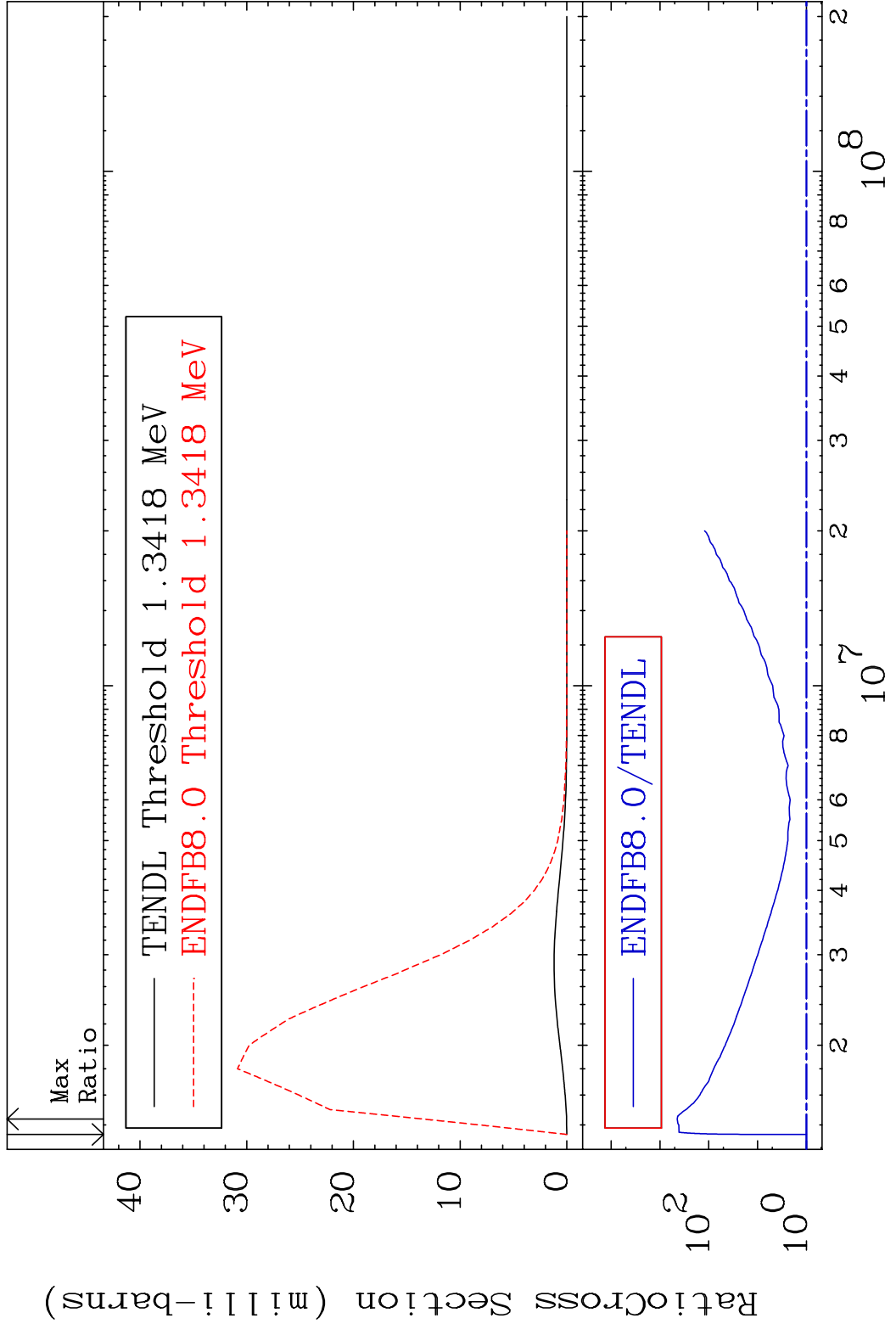
MAT 5053 MT= 63 (n, n') Level 50-Sn-121m
 Cross Section -69.33 To 2954. %



MAT 5053 MT= 64 (n, n') Level 50-Sn-121m
 Cross Section -67.67 To 3006. %



MAT 5053 MT= 65 (n,n') Level 50-Sn-121m
 Cross Section 0.000 To 9999. %

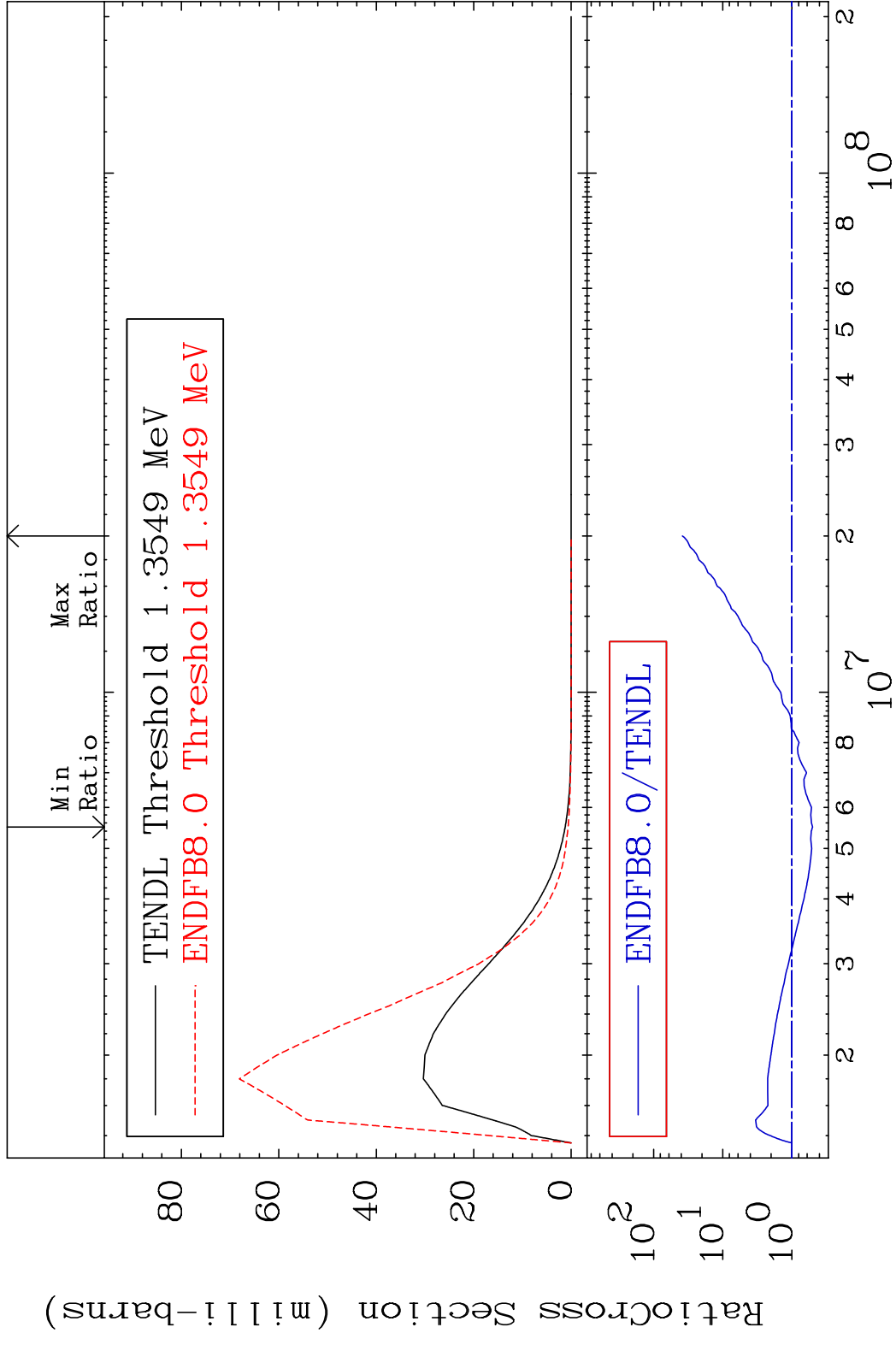


MAT 5053

MT= 66 (n, n') Level

50-Sn-121m

Cross Section -49.78 To 3746. %

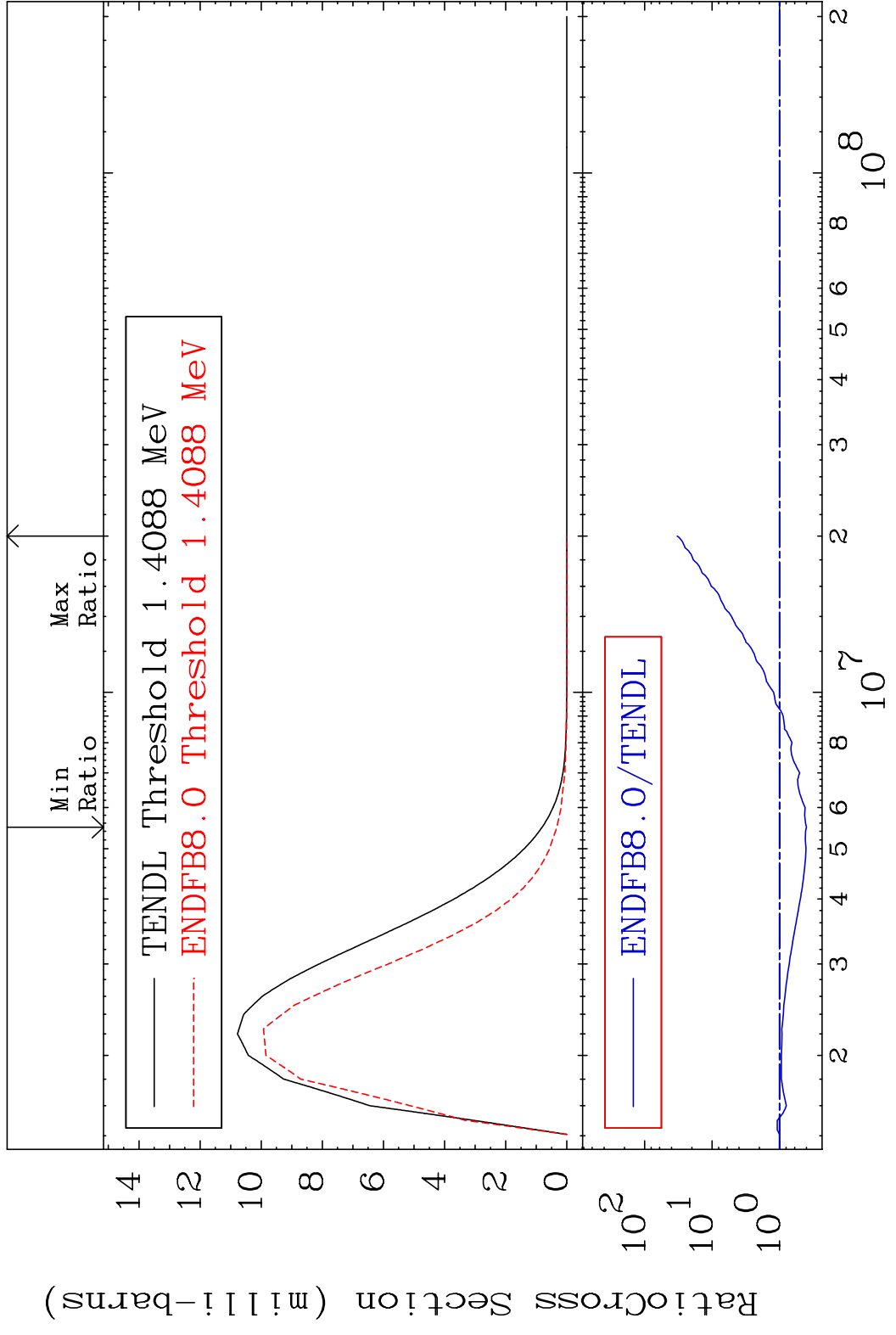


20

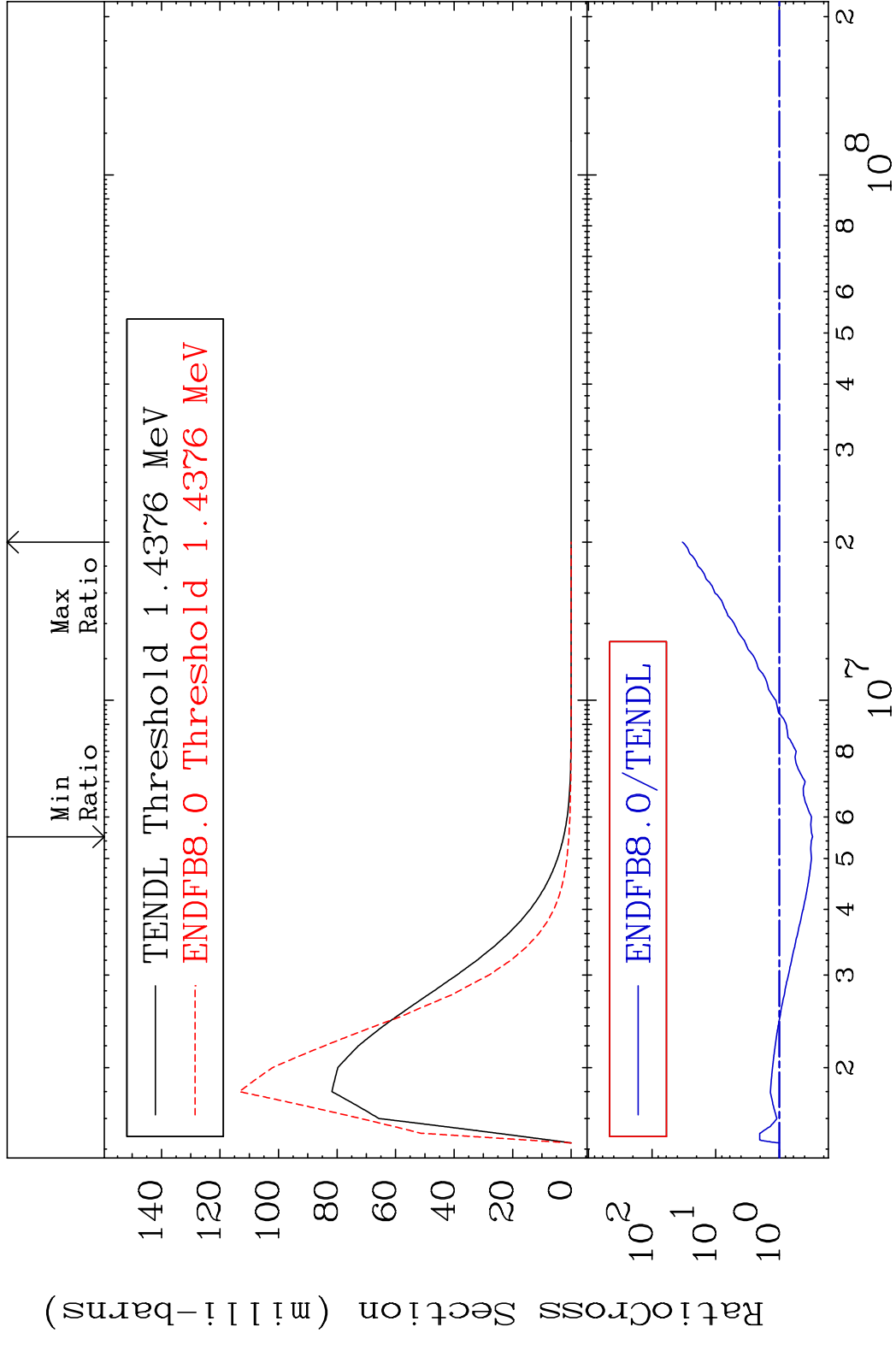
Incident Energy (eV)

50-Sn-121m

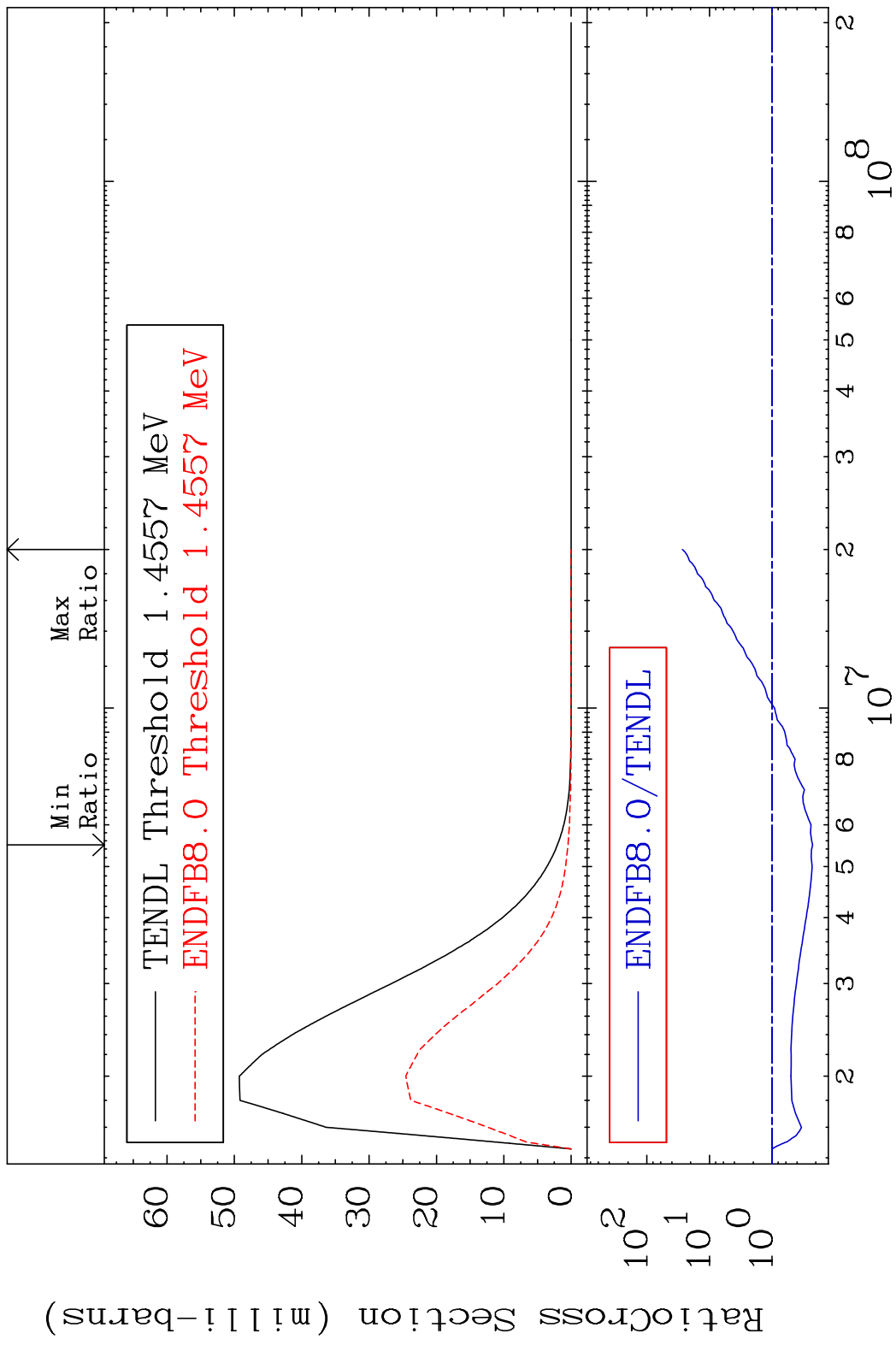
MAT 5053 MT= 67 (n, n') Level 50-Sn-121m
 Cross Section -59.92 To 3200. %



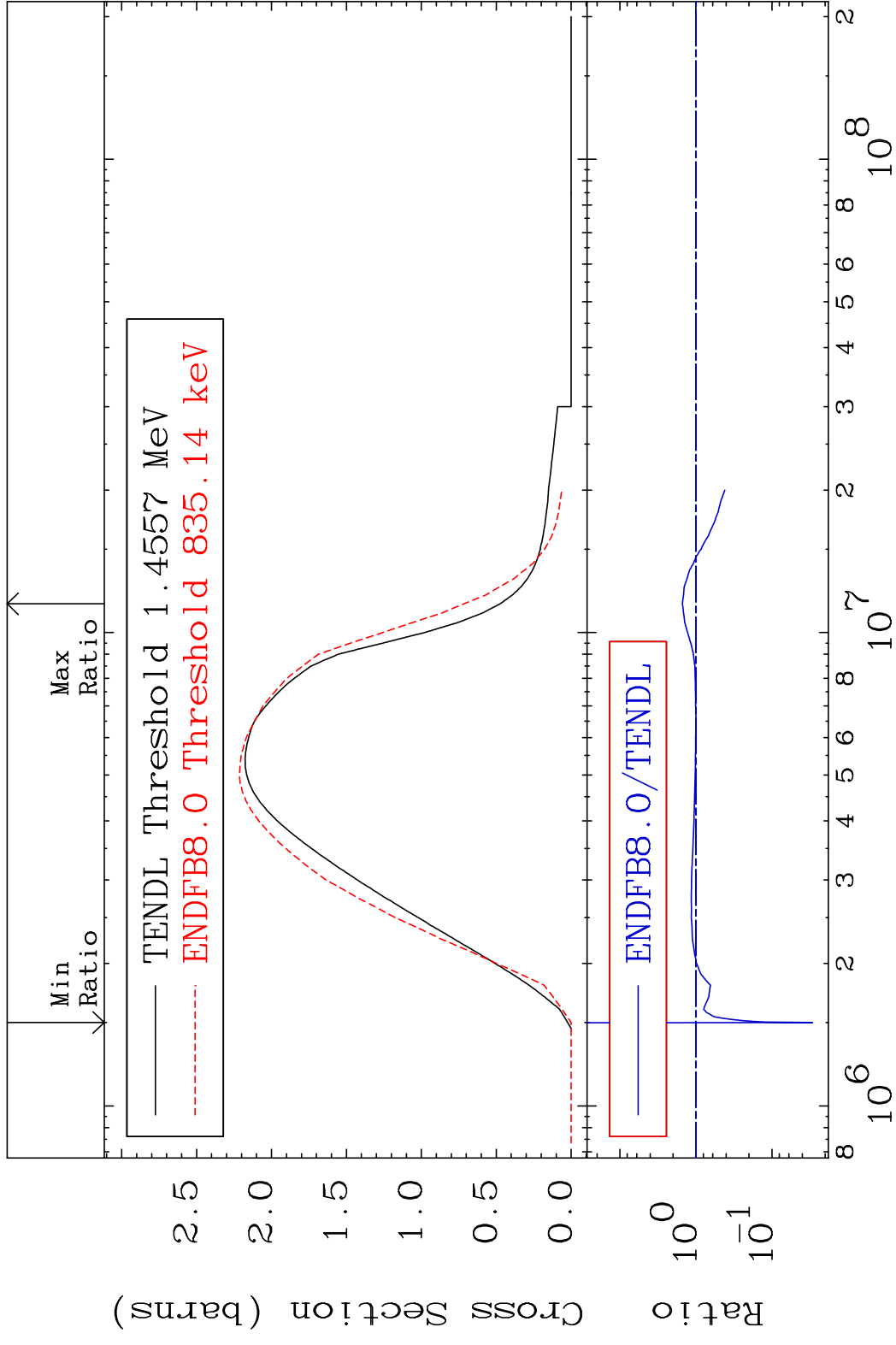
MAT 5053 MT= 68 (n,n') Level 50-Sn-121m
 Cross Section -69.93 To 3241. %



MAT 5053 MT= 69 (n, n') Level 50-Sn-121m
 Cross Section -77.39 To 2616. %



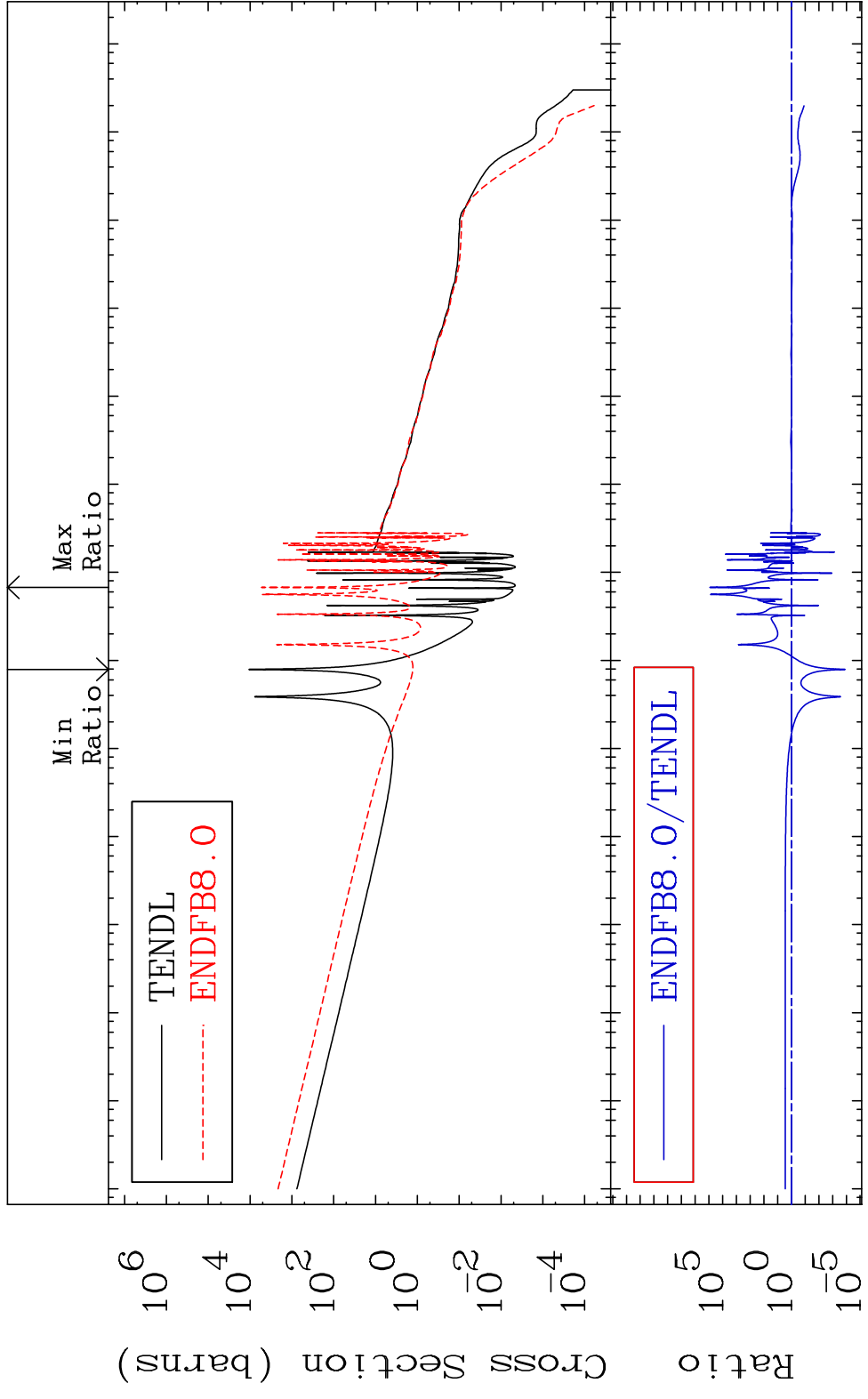
MAT 5053 (n, n') Continuum 50-Sn-121m
 Cross Section -97.07 To 50.85 %



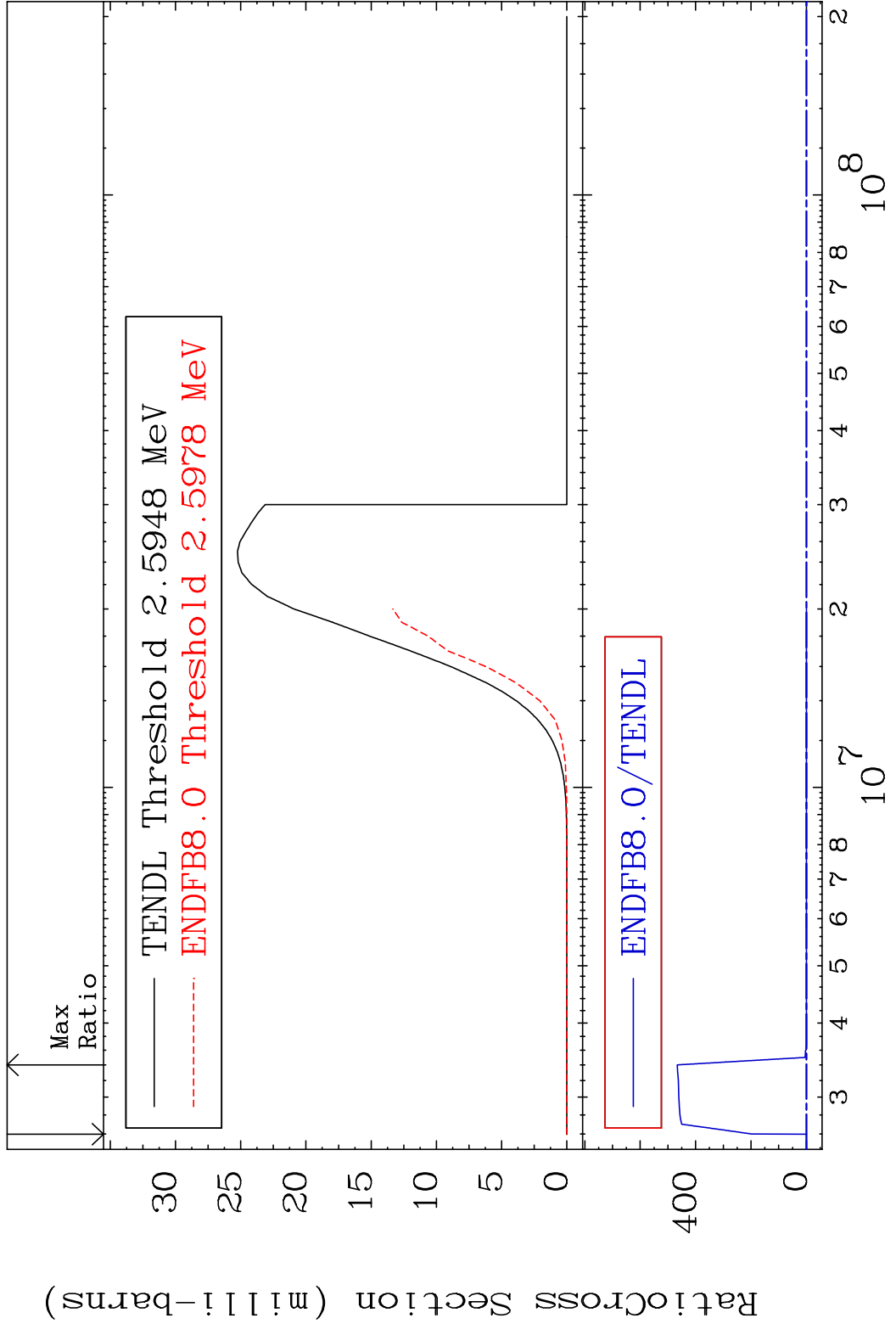
24 Incident Energy (eV) 50-Sn-121m

MAT 5053

(n, γ)
Cross Section -99.99 To 9999. %
50-Sn-121m



MAT 5053 (n,p) 50-Sn-121m
 Cross Section -100.0 To 9999. %



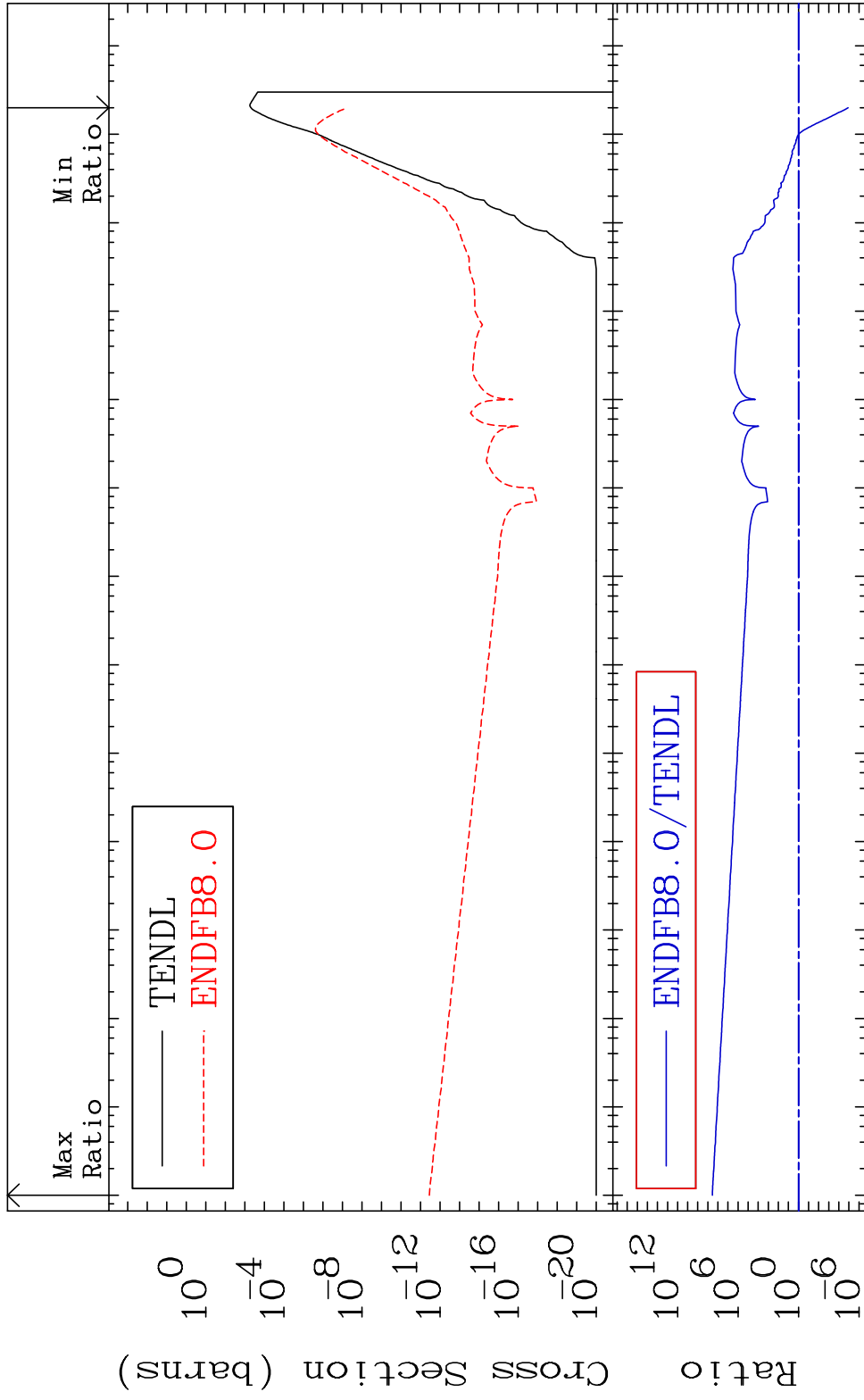
MAT 5053

(n, α)

50-Sn-121m

Cross Section

-100.0 To 9999. %



27

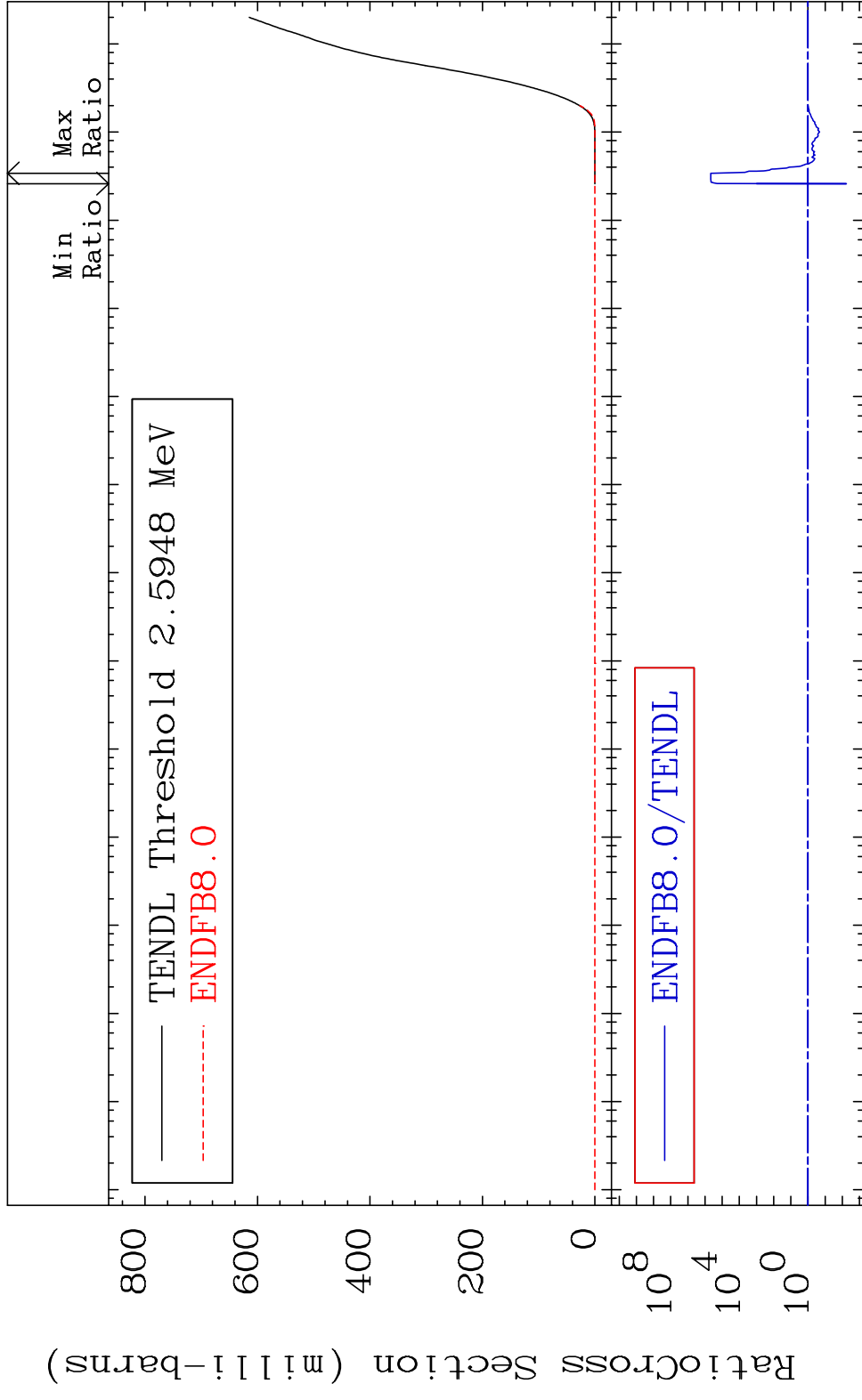
Incident Energy (eV)

50-Sn-121m

MAT 5053

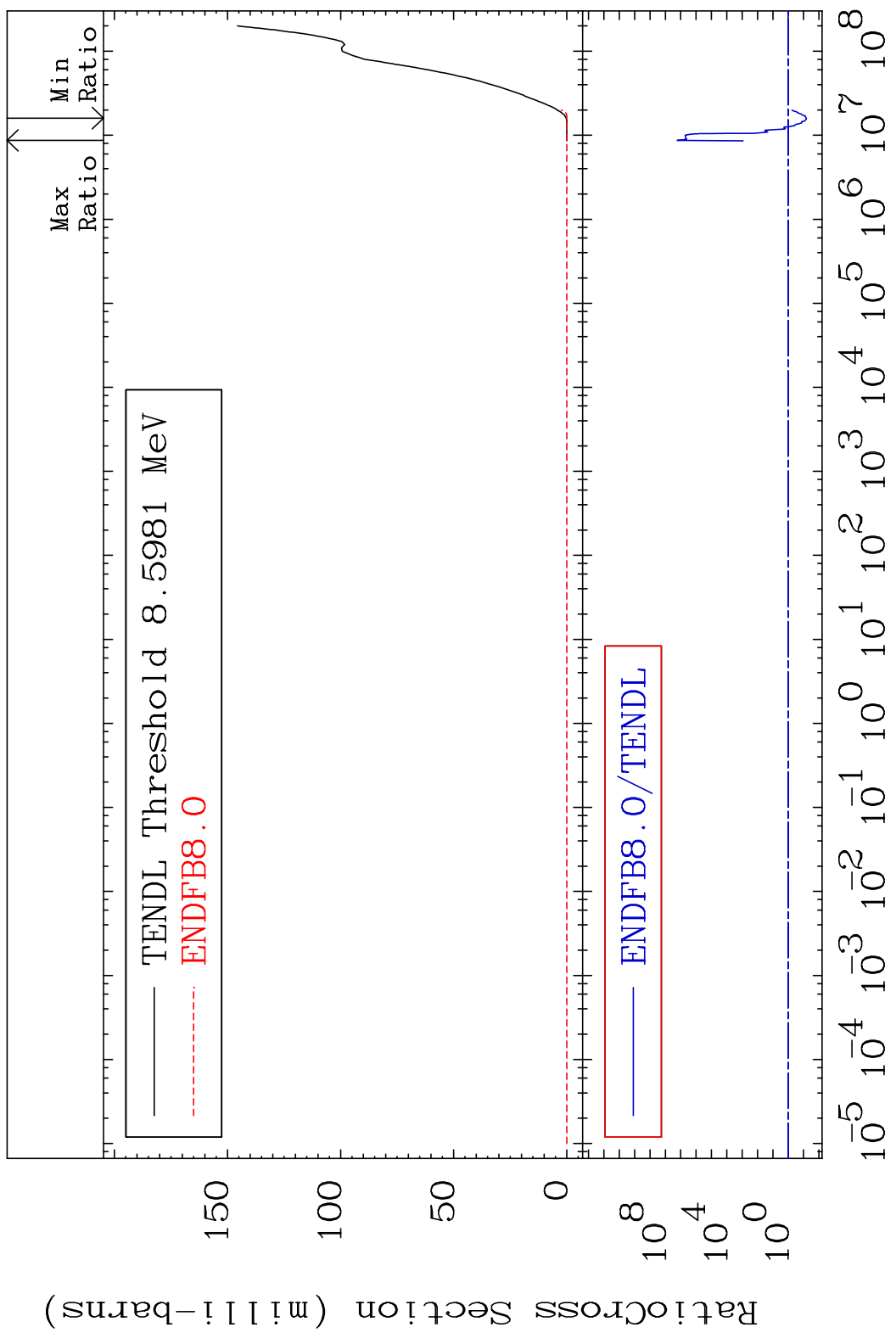
Hydrogen Production
Cross Section -99.42 To 9999. %

50-Sn-121m



MAT 5053

Deuterium Production 50-Sn-121m
Cross Section -93.44 To 9999. %



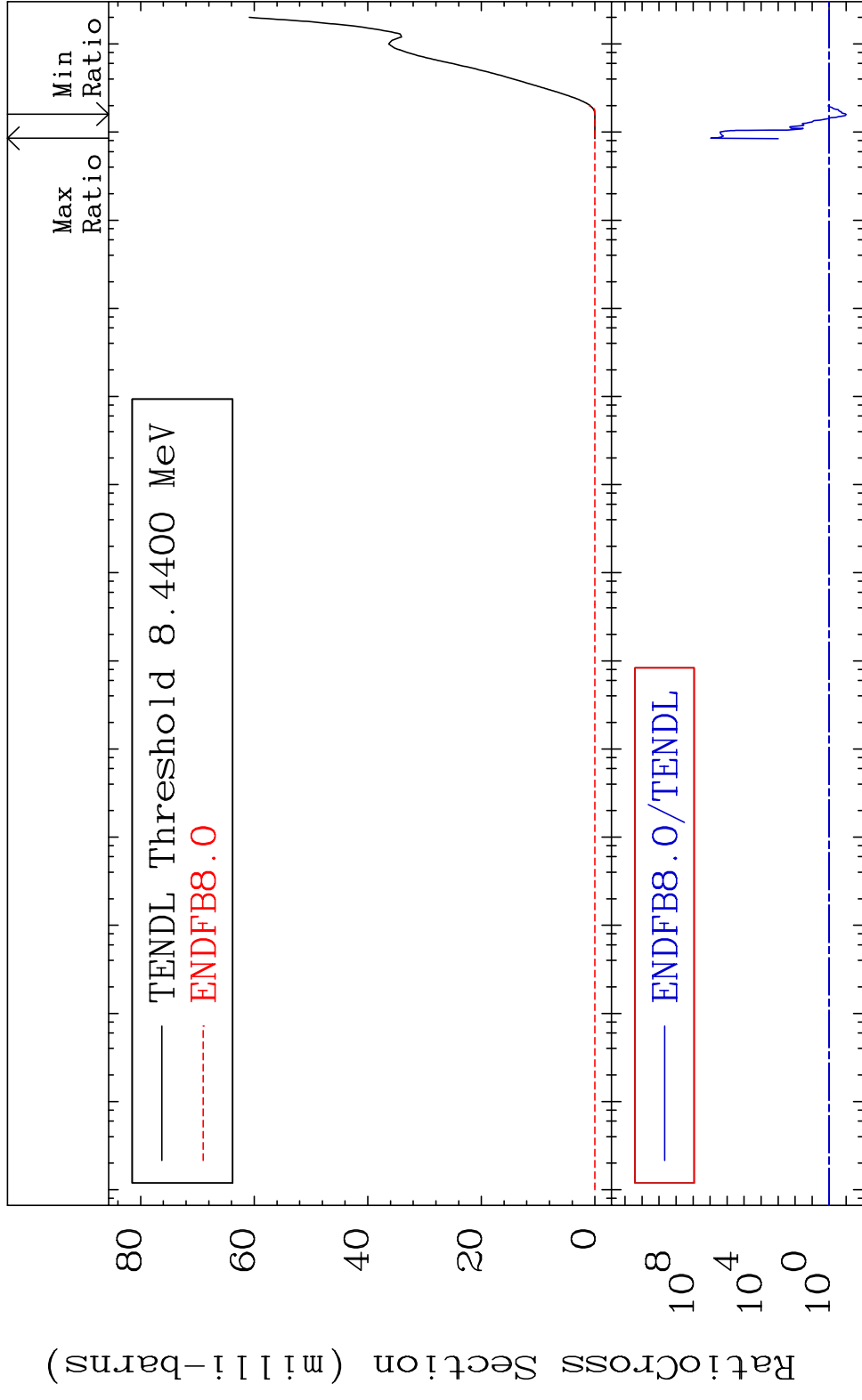
MAT 5053

Tritium Production

50-Sn-121m

Cross Section

-90.27 To 9999. %



30

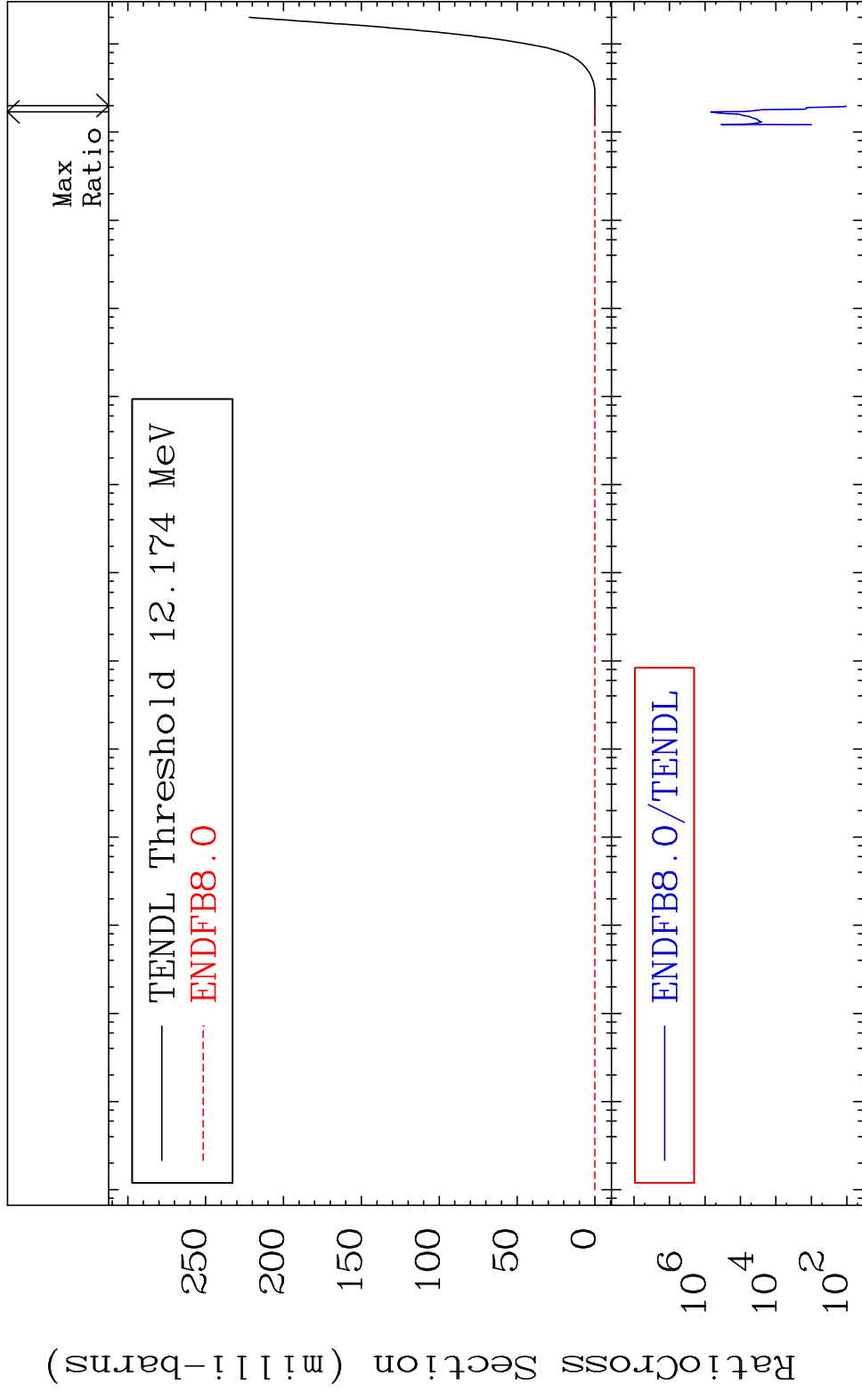
Incident Energy (eV)

50-Sn-121m

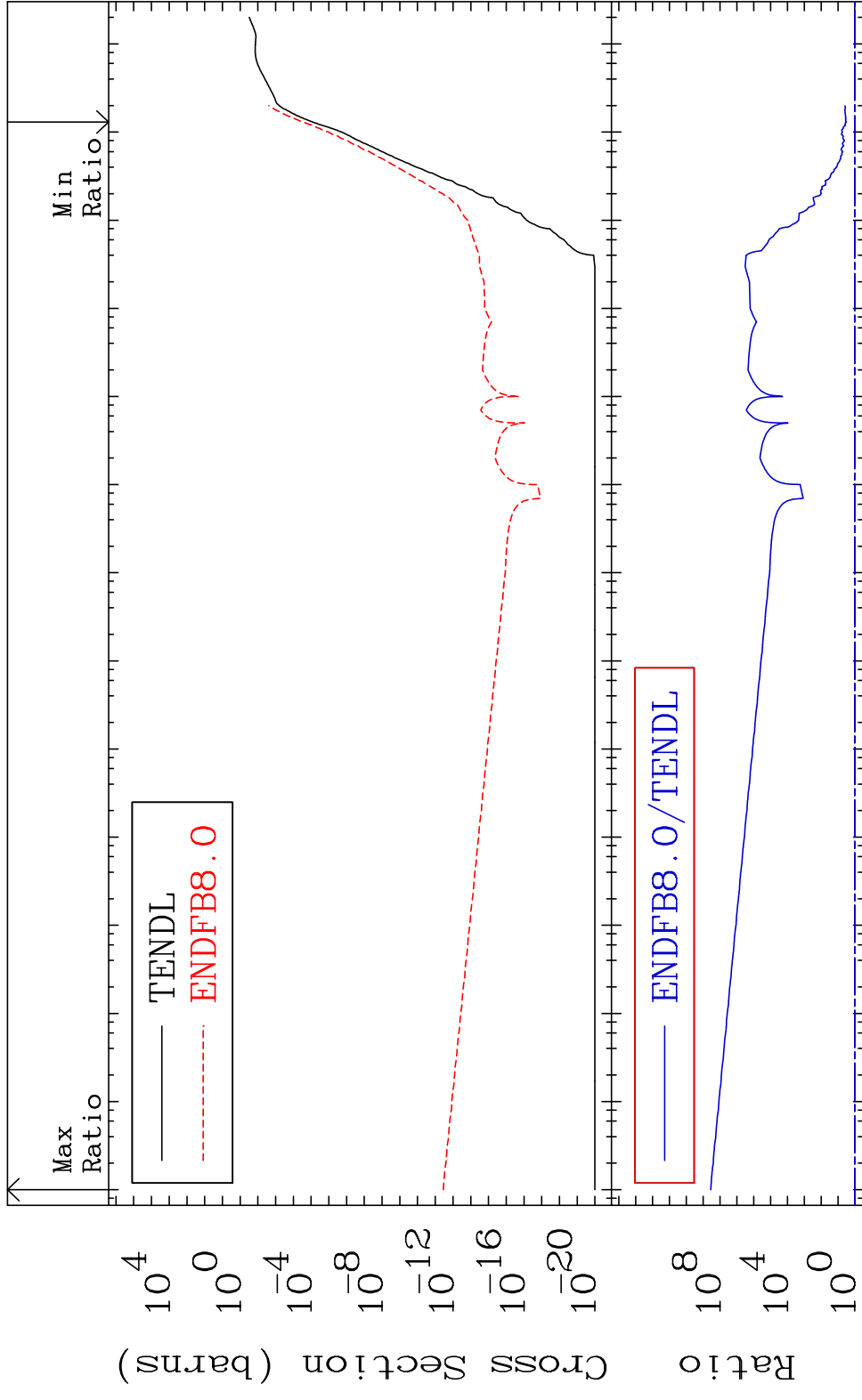
MAT 5053

He-3 Production
Cross Section 9999. To 9999. %

50-Sn-121m
To 9999. %



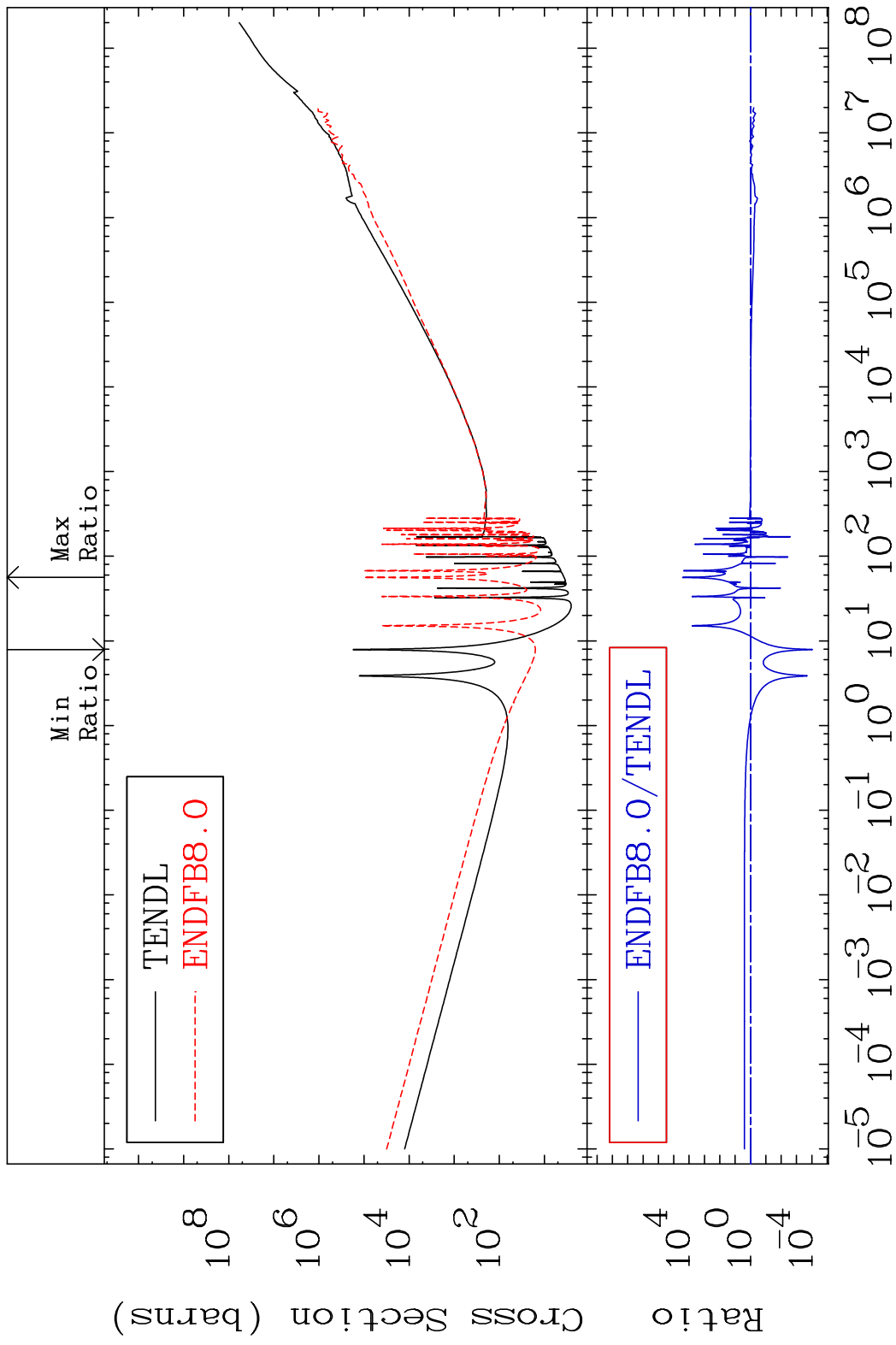
MAT 5053 He-4 Production 50-Sn-121m
 Cross Section 218.4 To 9999. %



Ratio

Incident Energy (eV) 50-Sn-121m

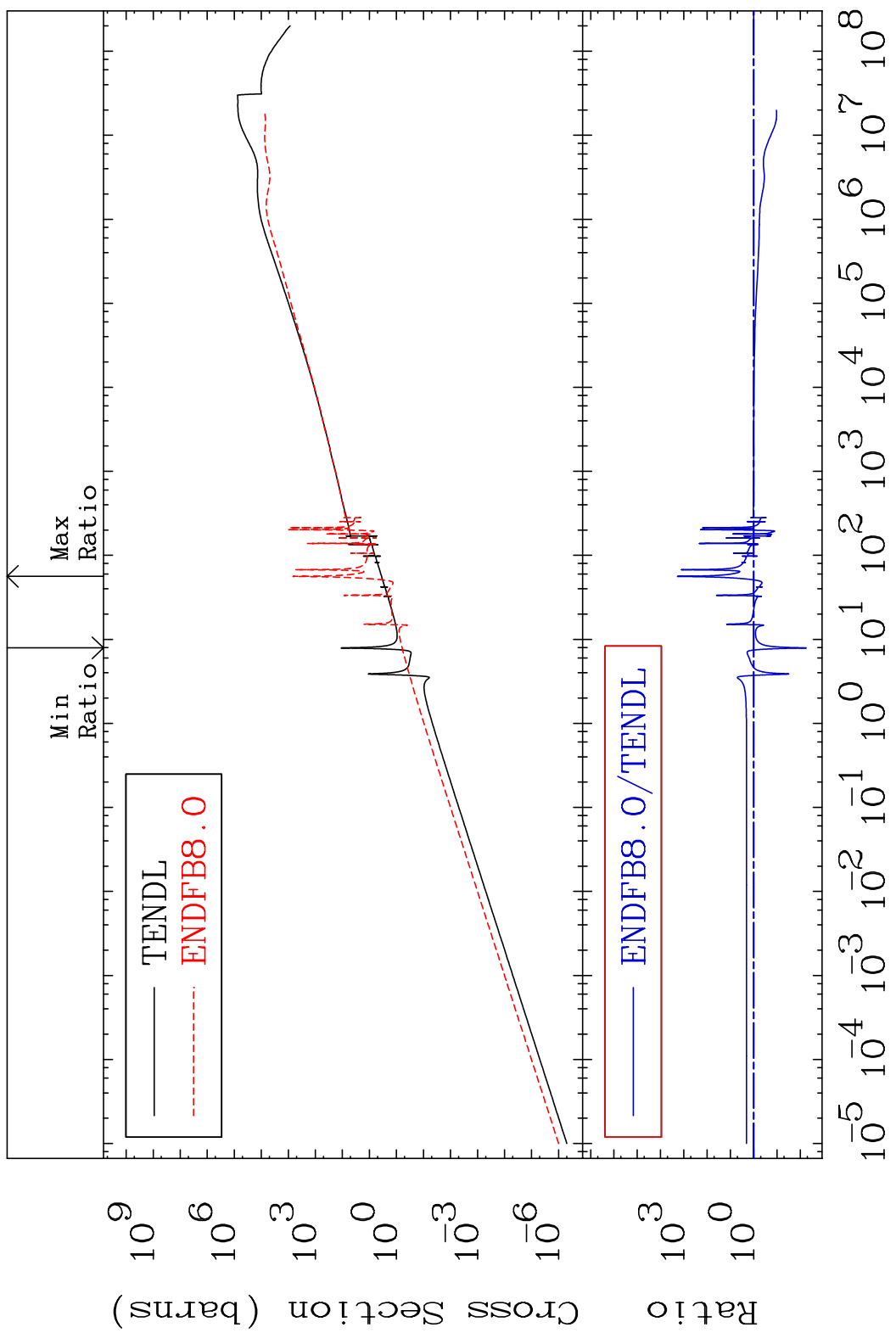
MAT 5053 Kerma total (eV-barns) 50-Sn-121m
 Cross Section -99.99 To 9999. %



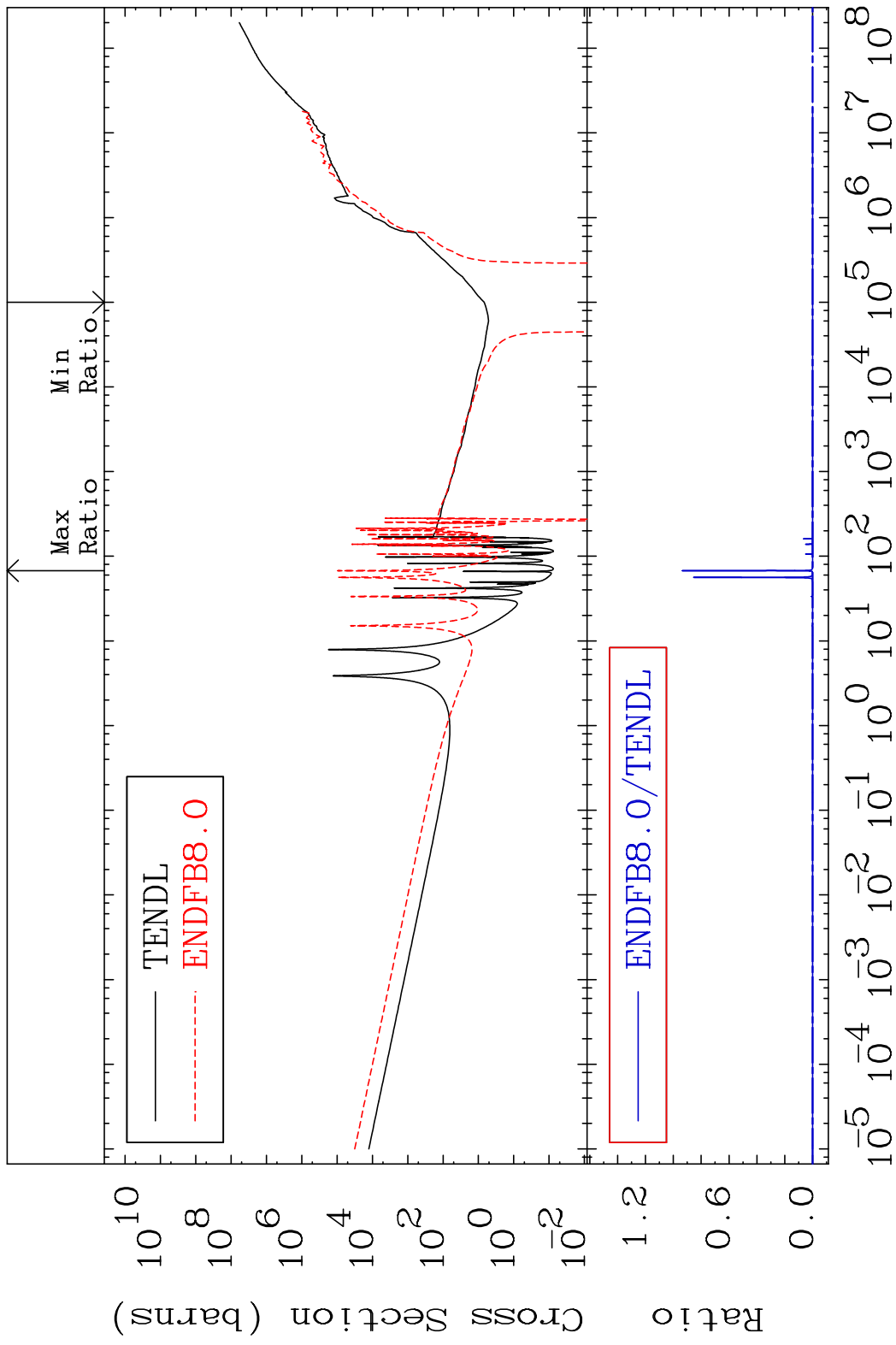
33 Incident Energy (eV) 50-Sn-121m

MAT 5053

Kerma elastic Cross Section -99.45 %
50-Sn-121m To 9999. %

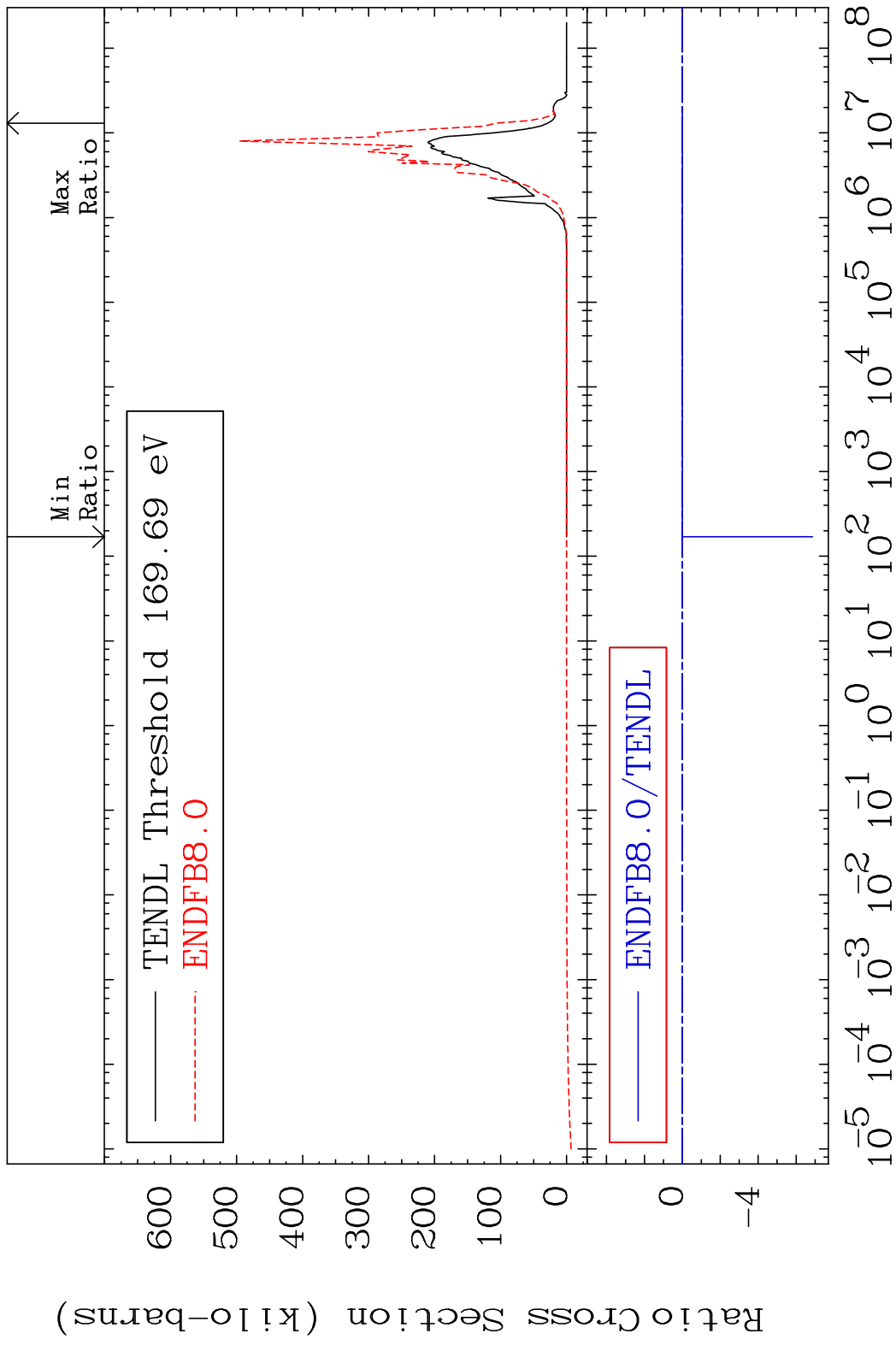


MAT 5053 Kerma non-elastic (all but mt2) 50-Sn-121m
 Cross Section -252.0 To 9999. %



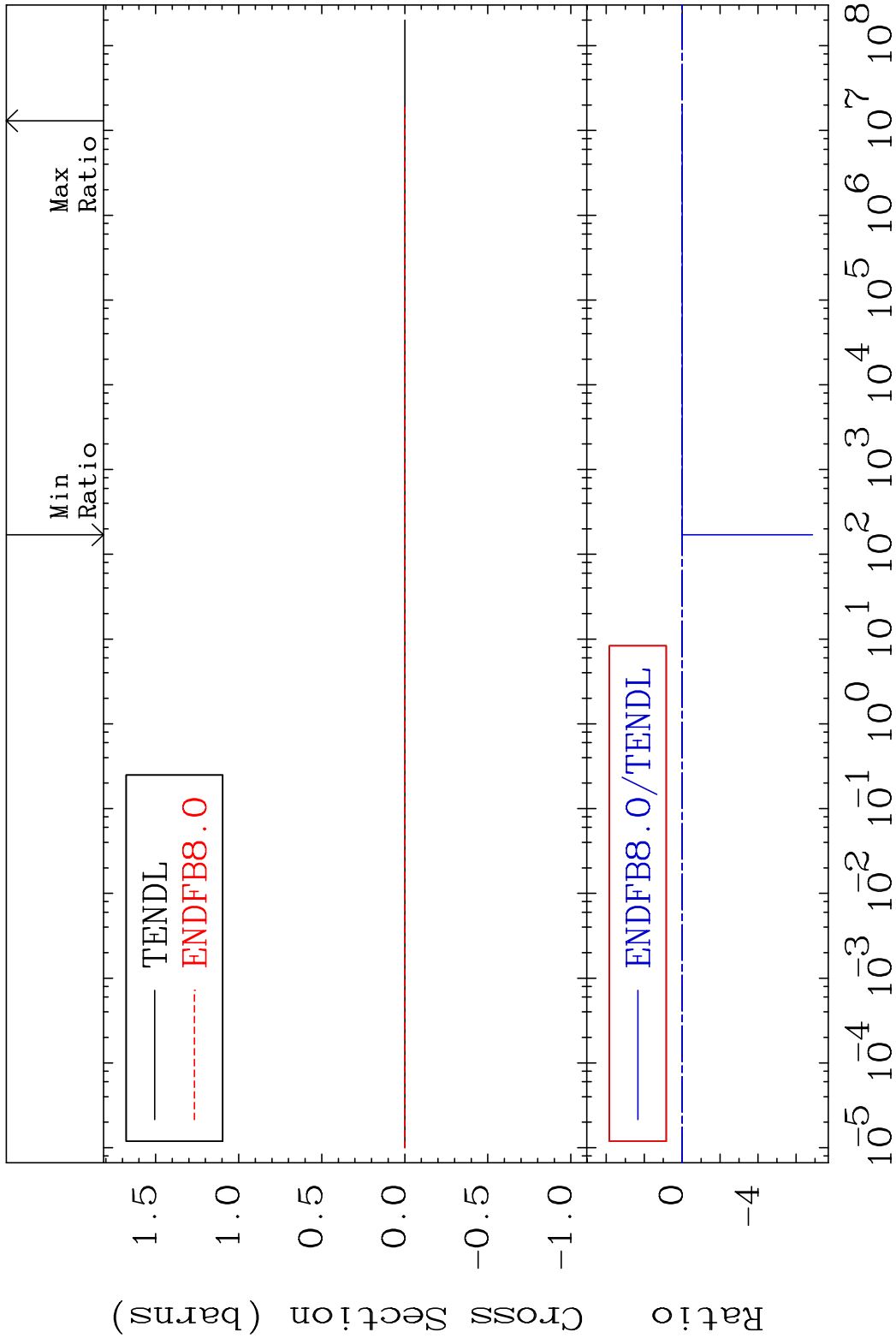
35 Incident Energy (eV) 50-Sn-121m

MAT 5053 Kerma inelastic (mt51-91) 50-Sn-121m
 Cross Section -9999. To 271.3 %

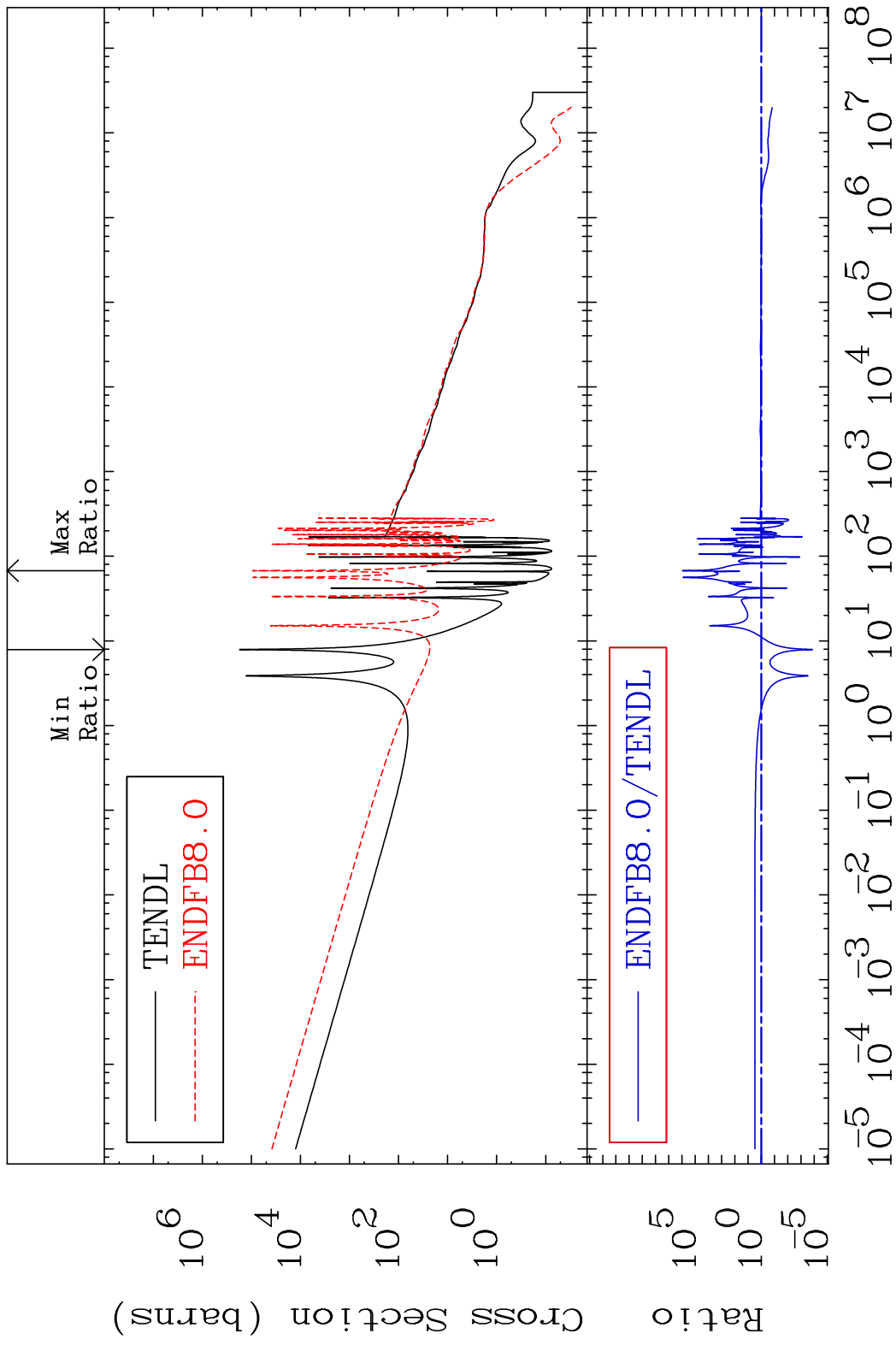


36 Incident Energy (eV) 50-Sn-121m

MAT 5053 Kerma fission (mt18 or mt19-20-21-350)-Sn-121m
 Cross Section -9999. To 271.3 %

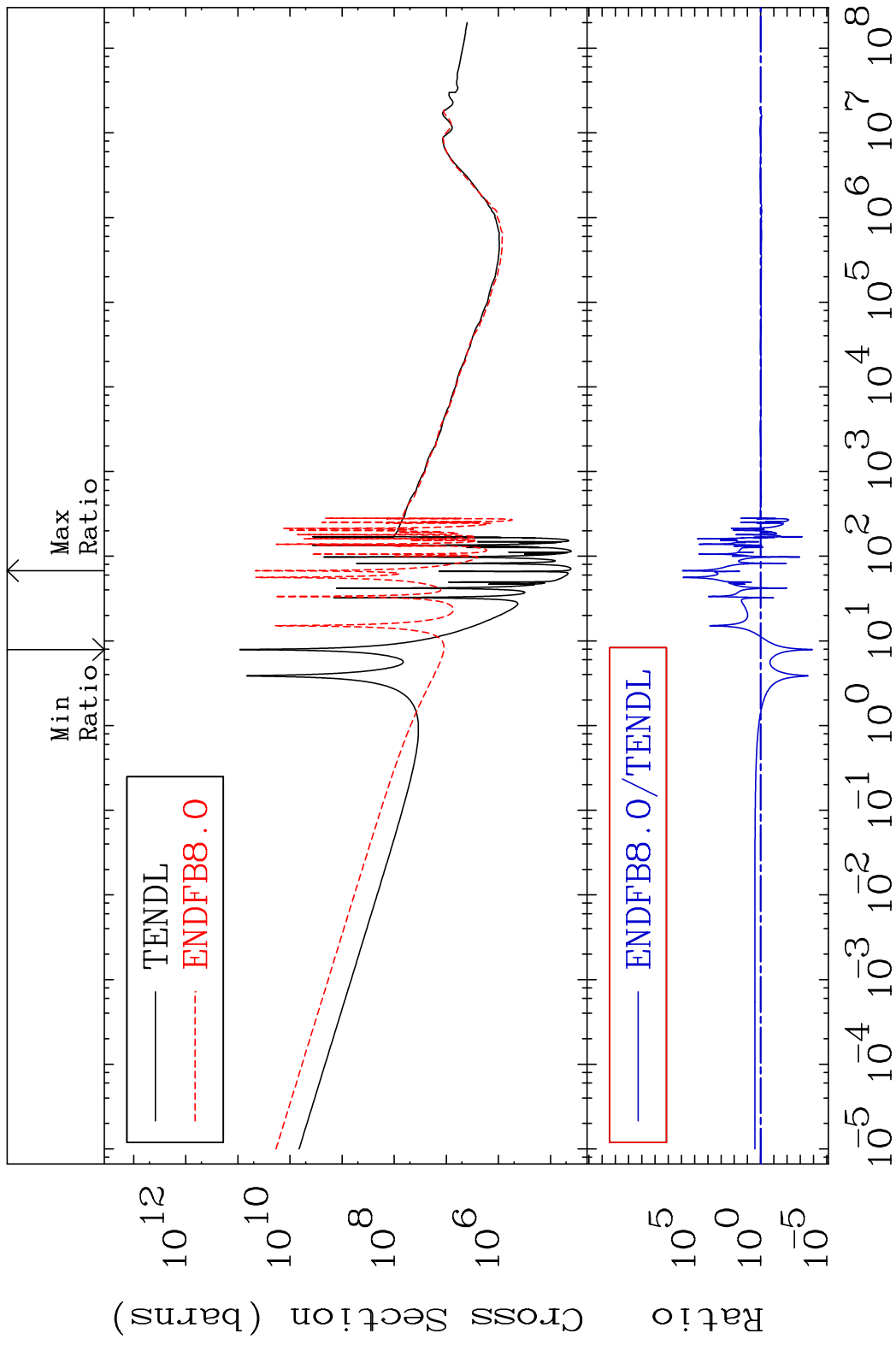


MAT 5053 Kerma capture (mt102) 50-Sn-121m
 Cross Section -99.99 To 9999. %



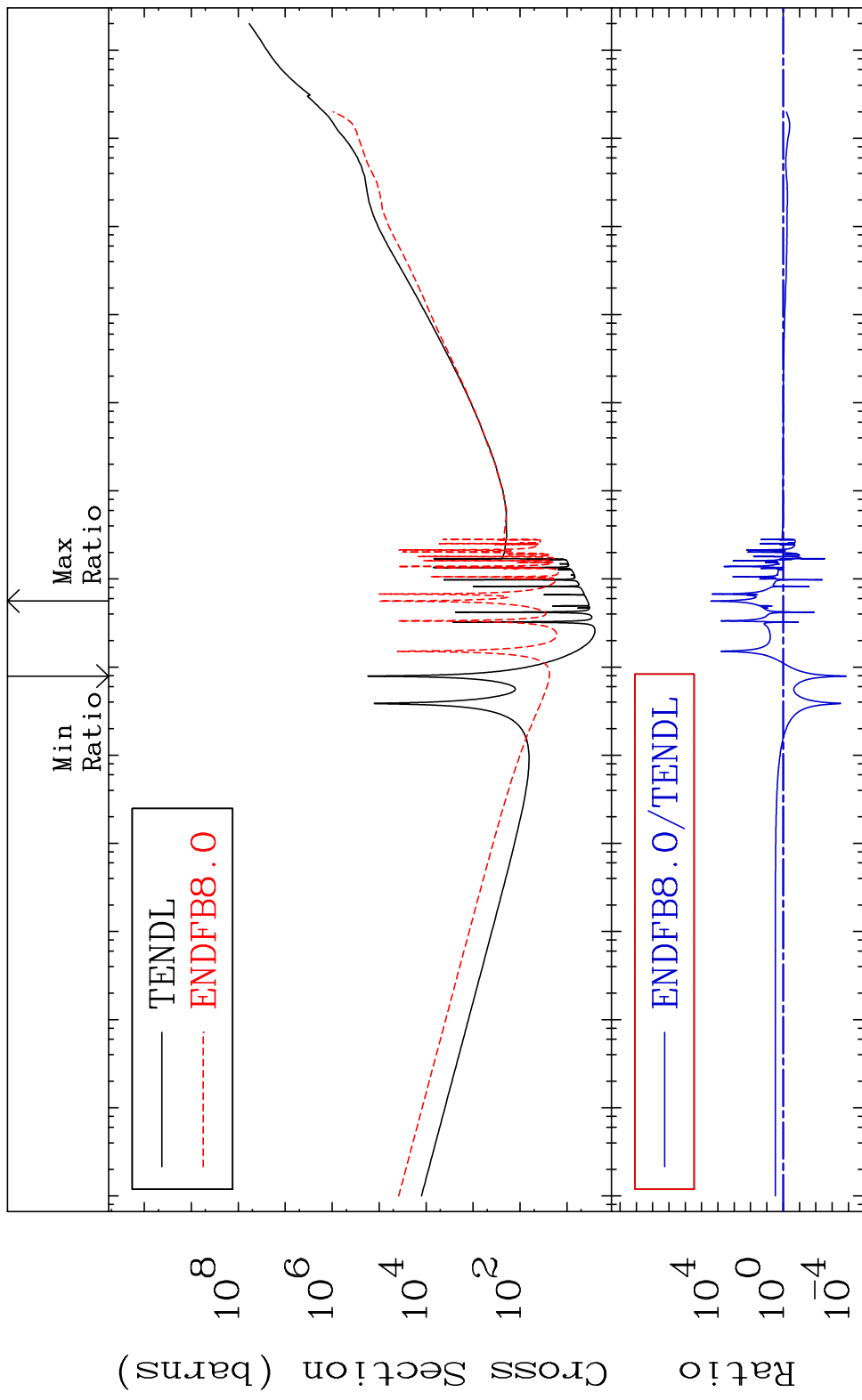
38 Incident Energy (eV) 50-Sn-121m

MAT 5053 Total photon (eV-barns) 50-Sn-121m
 Cross Section -99.99 To 9999. %



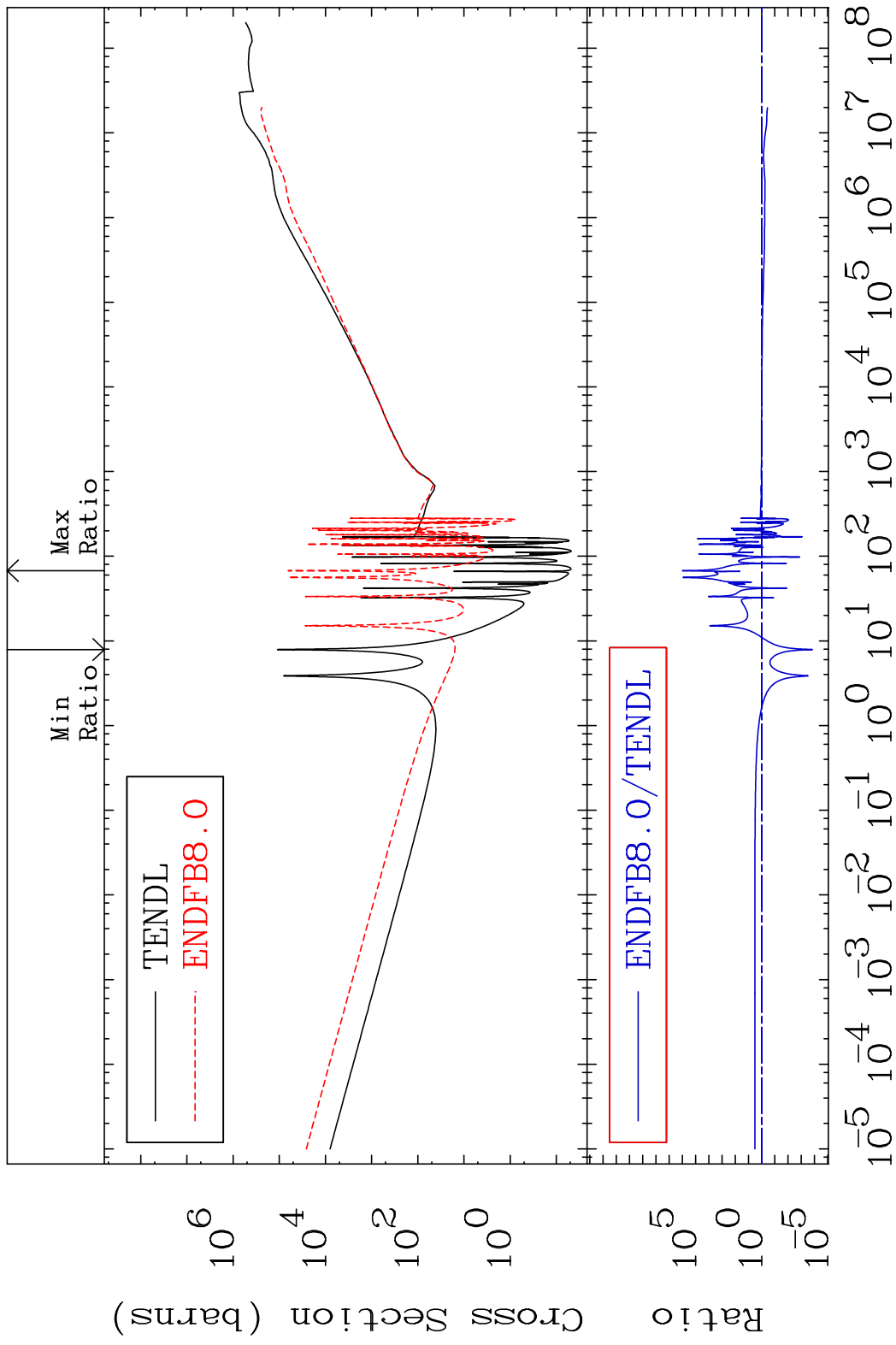
39 Incident Energy (eV) 50-Sn-121m

MAT 5053 Total kinematic kerma (high limit)50-Sn-121m
 Cross Section -99.99 To 9999. %



40 Incident Energy (eV) 50-Sn-121m

MAT 5053 Dpa total (eV-barns) 50-Sn-121m
 Cross Section -99.99 To 9999. %



41 Incident Energy (eV) 50-Sn-121m

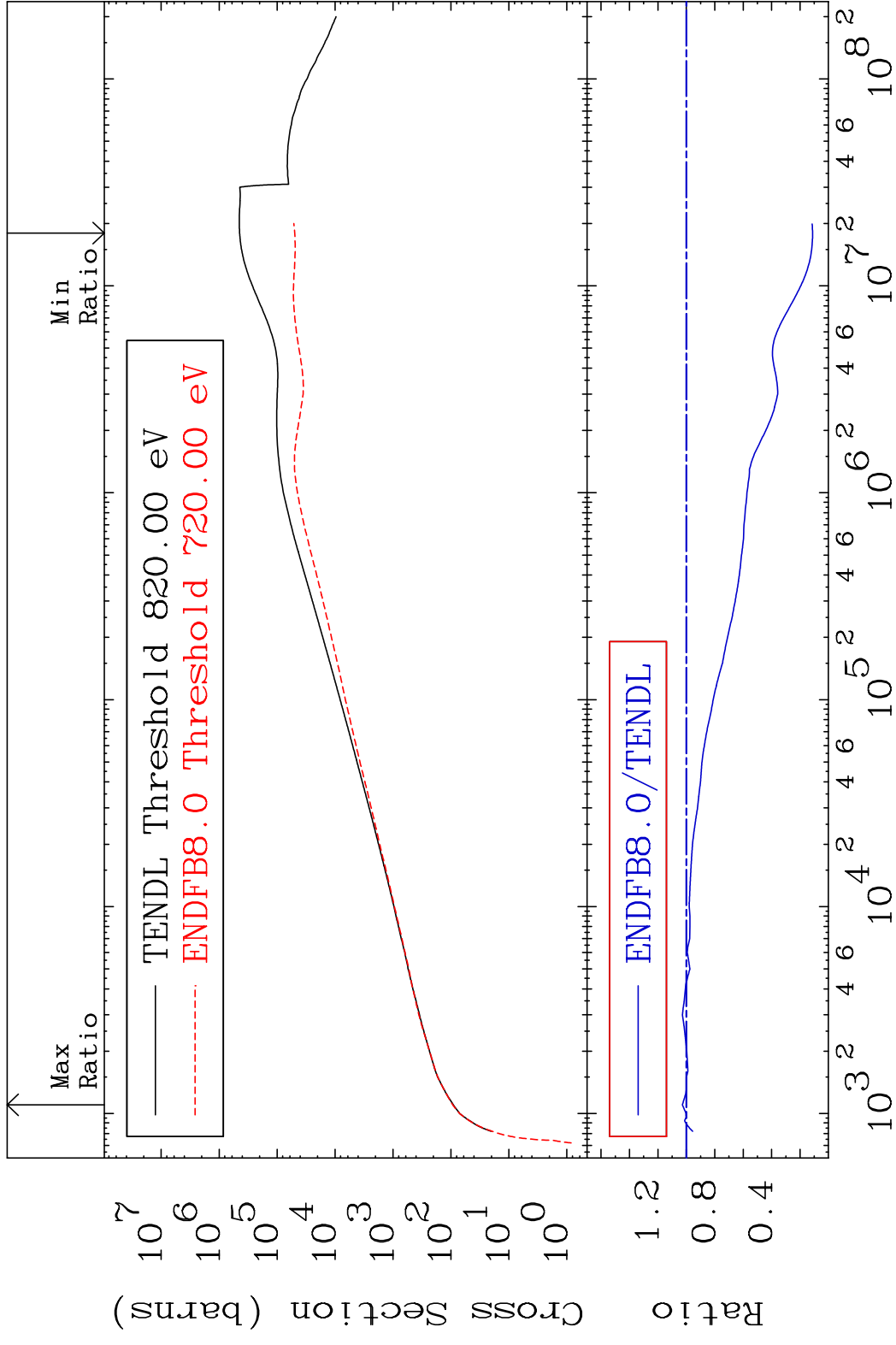
MAT 5053

Dpa elastic (mt2)

50-Sn-121m

Cross Section

-88.78 To 2.808 %



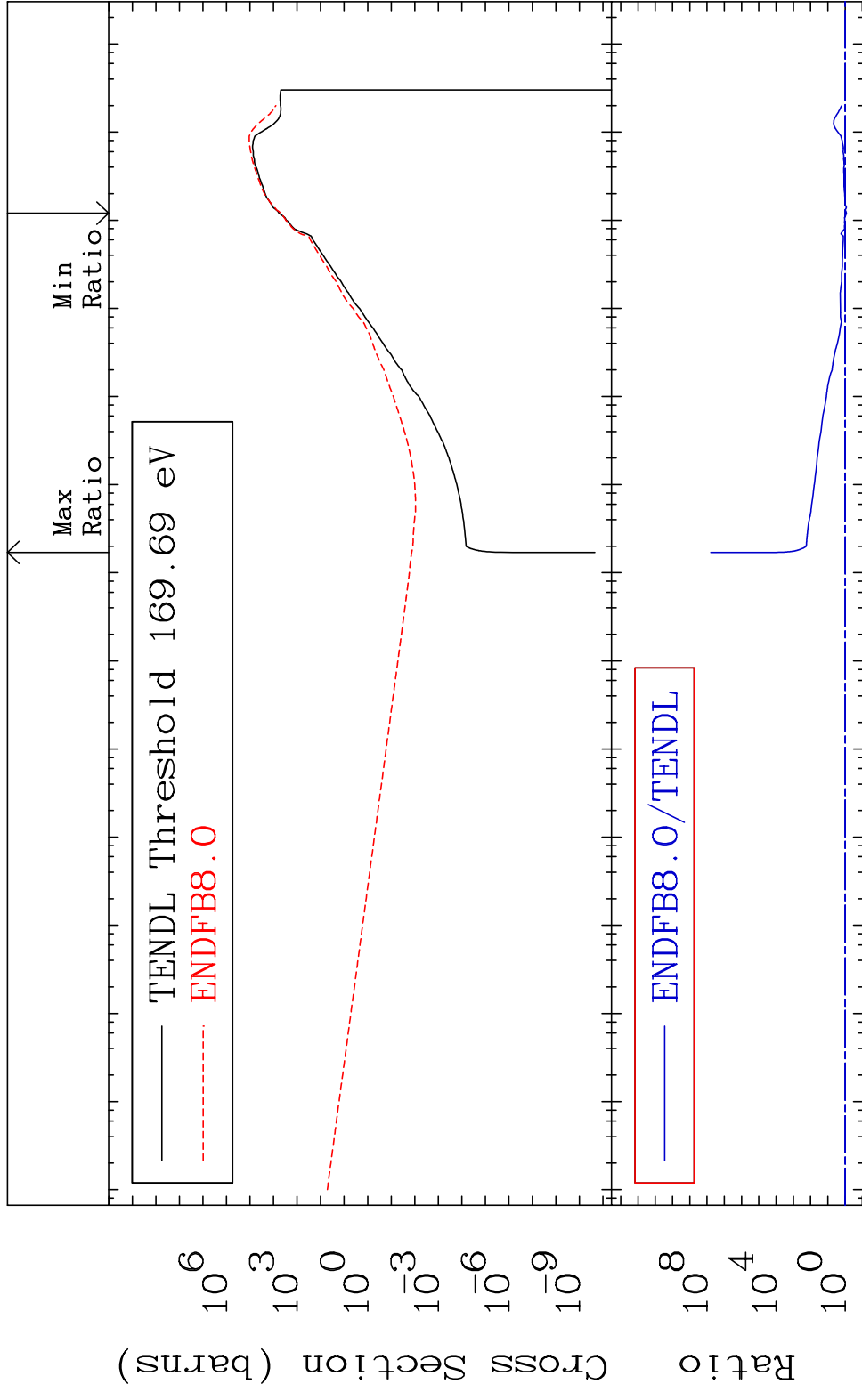
42

Incident Energy (eV)

50-Sn-121m

MAT 5053

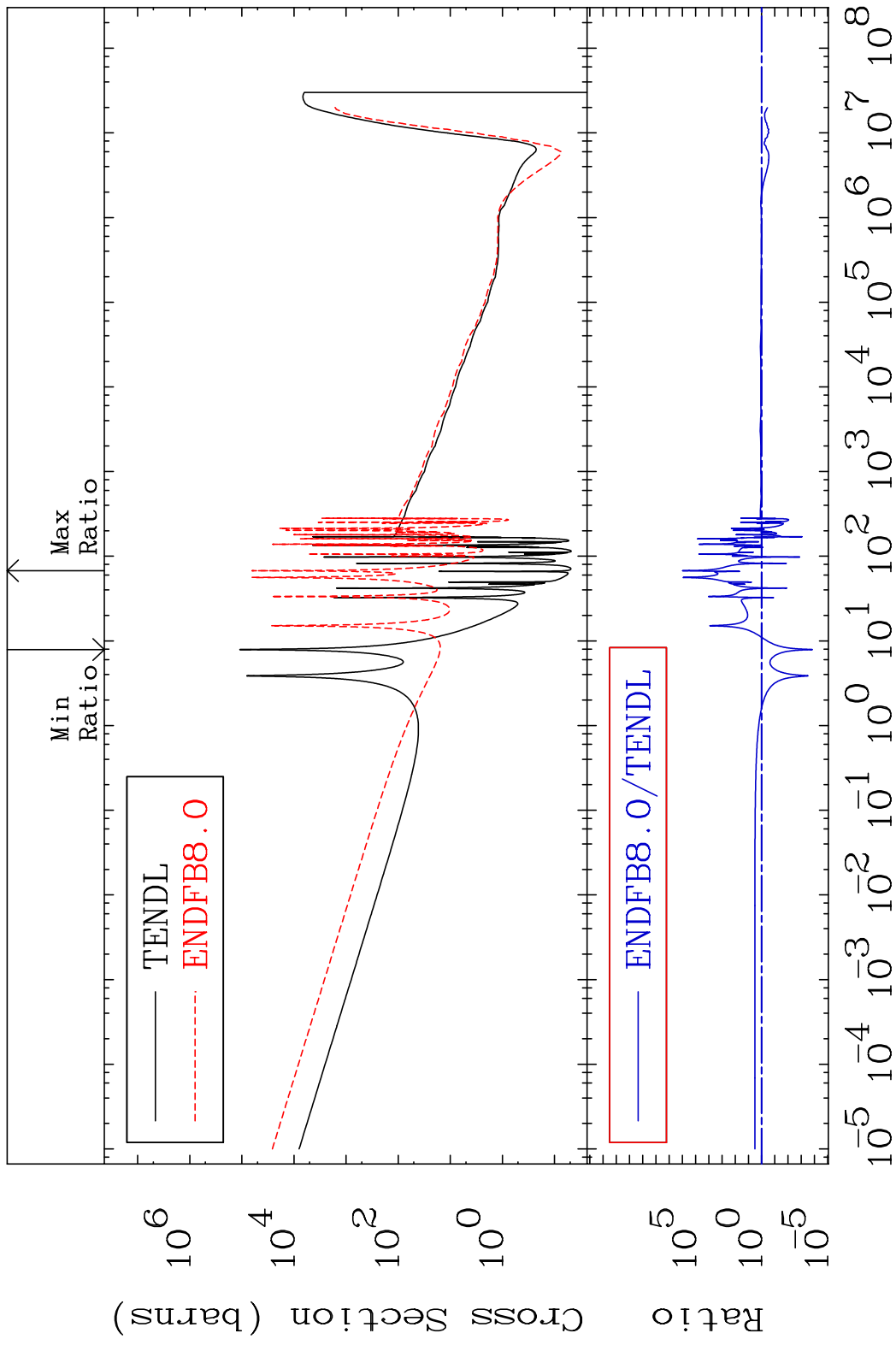
Dpa inelastic (mt51-91) 50-Sn-121m
Cross Section -14.77 To 9999. %



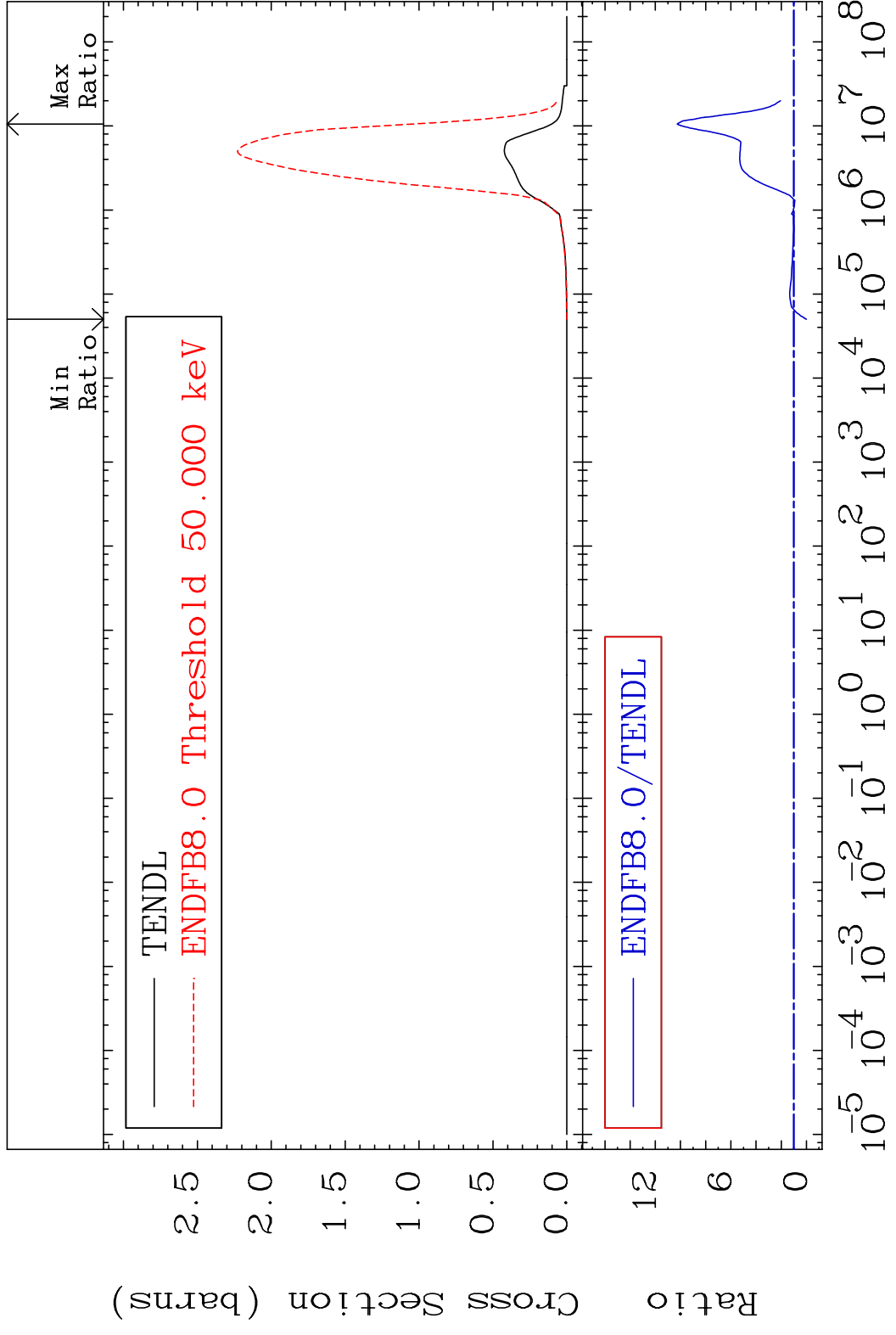
43

Incident Energy (eV) 50-Sn-121m

MAT 5053 Dpa disappearance (mt102 -120) 50-Sn-121m
 Cross Section -99.99 To 9999. %

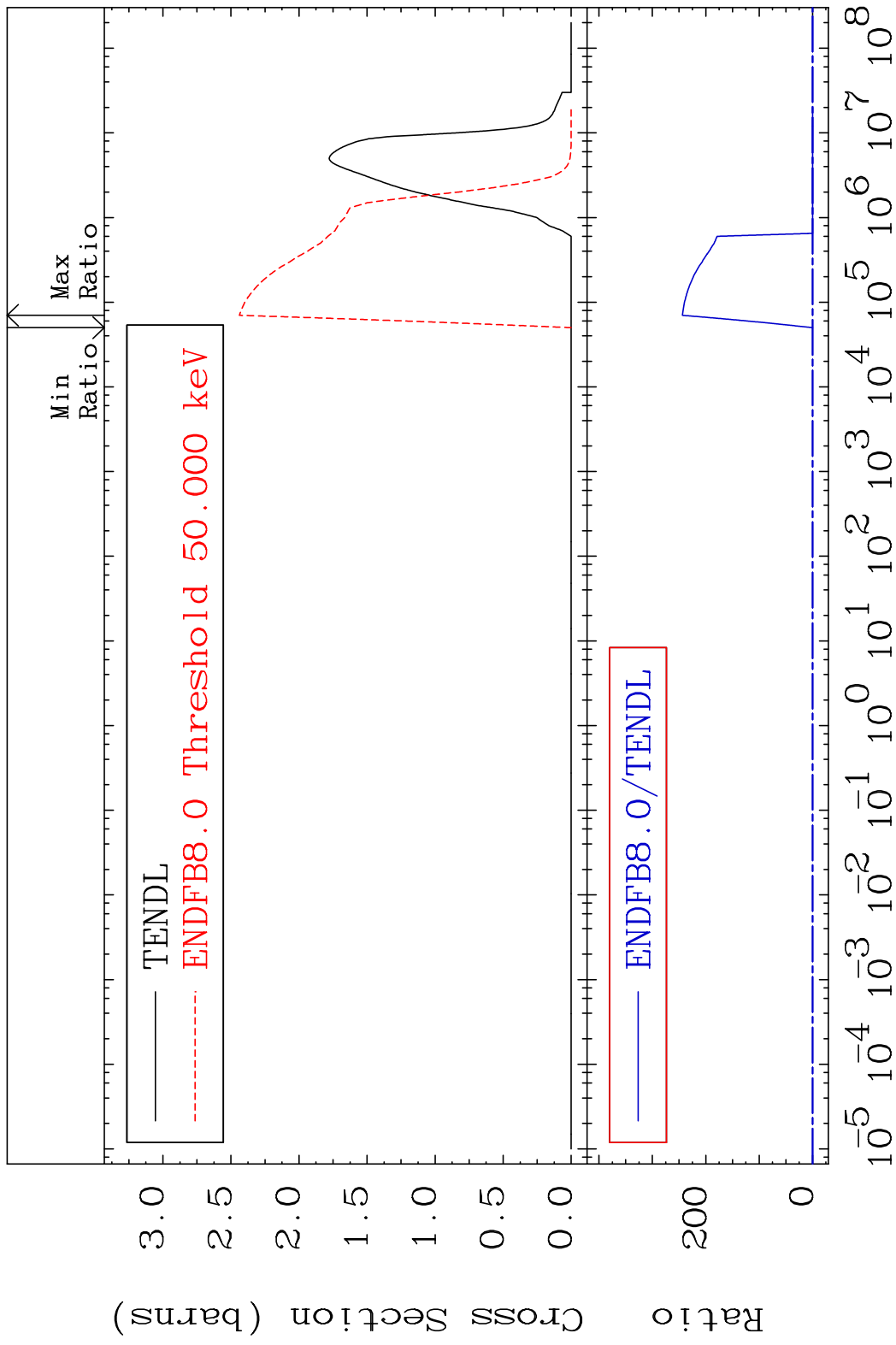


MAT 5053 Inelastic:50-Sn-121g 50-Sn-121m
 Radionuclide Production Cross Section 180.0 dth 926.3 %



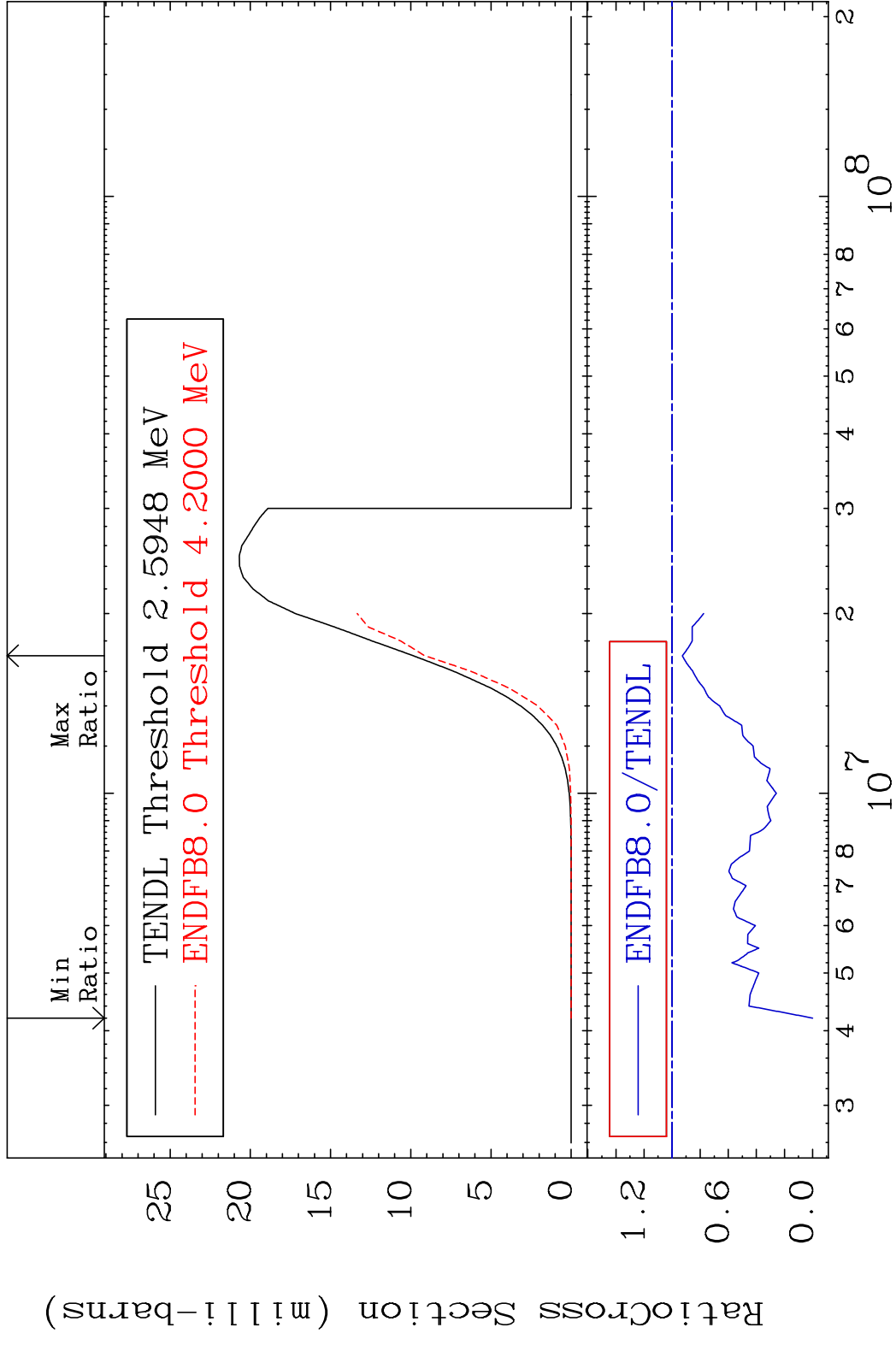
45 Incident Energy (eV) 50-Sn-121m

MAT 5053 Inelastic:50-Sn-121m 50-Sn-121m
 Radionuclide Production Cross Section Ratio 9999. %

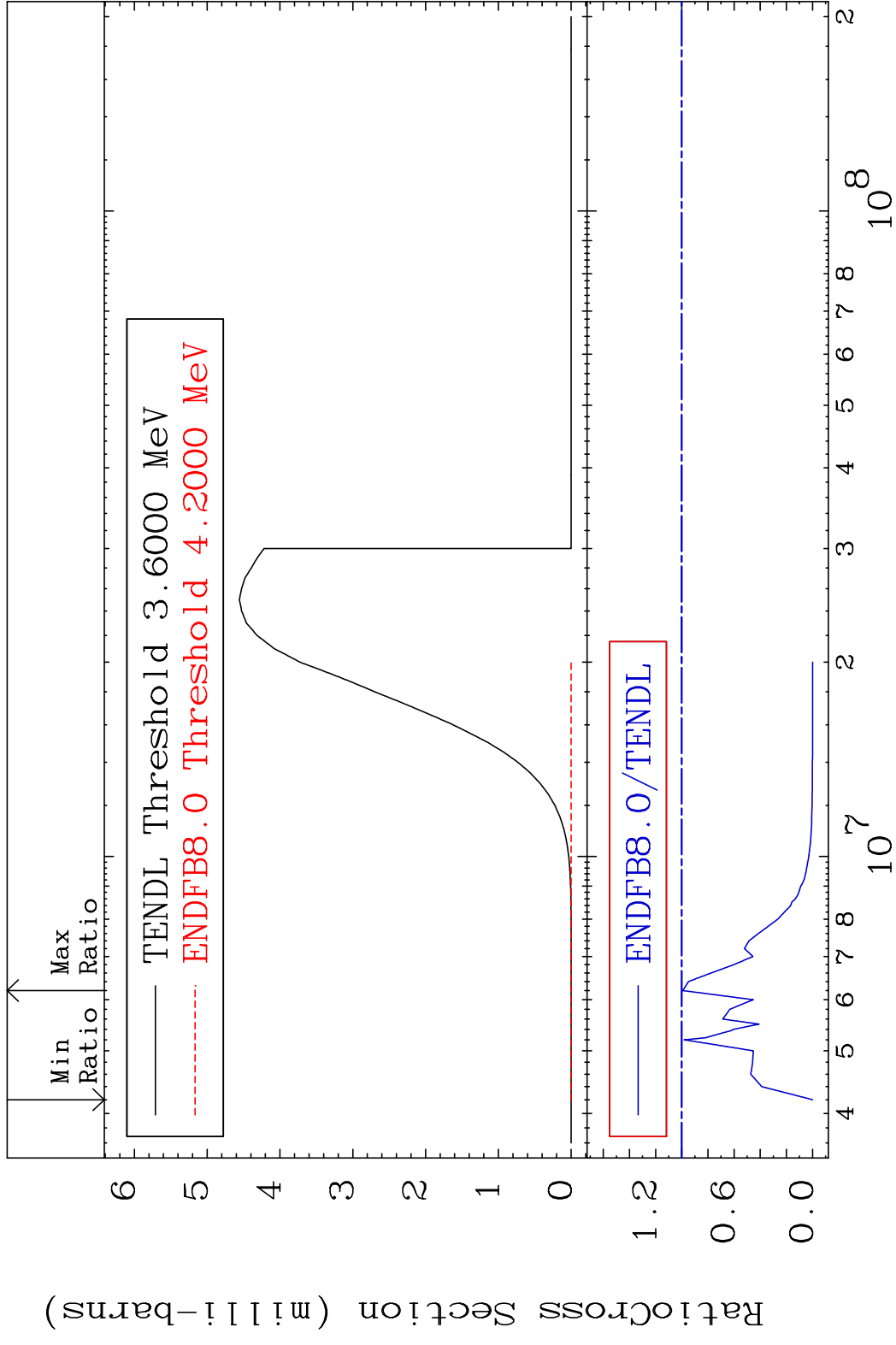


46 Incident Energy (eV) 50-Sn-121m

MAT 5053 (n,p):49-In-121g 50-Sn-121m
 Radionuclide Production Cross Section Ratio -7.300%



MAT 5053 (n,p):49-In-121m1 50-Sn-121m
 Radionuclide Production Cross Section Ratio -0.447%



48 Incident Energy (eV) 50-Sn-121m