

Program Complot
(Version 2018-1)

by

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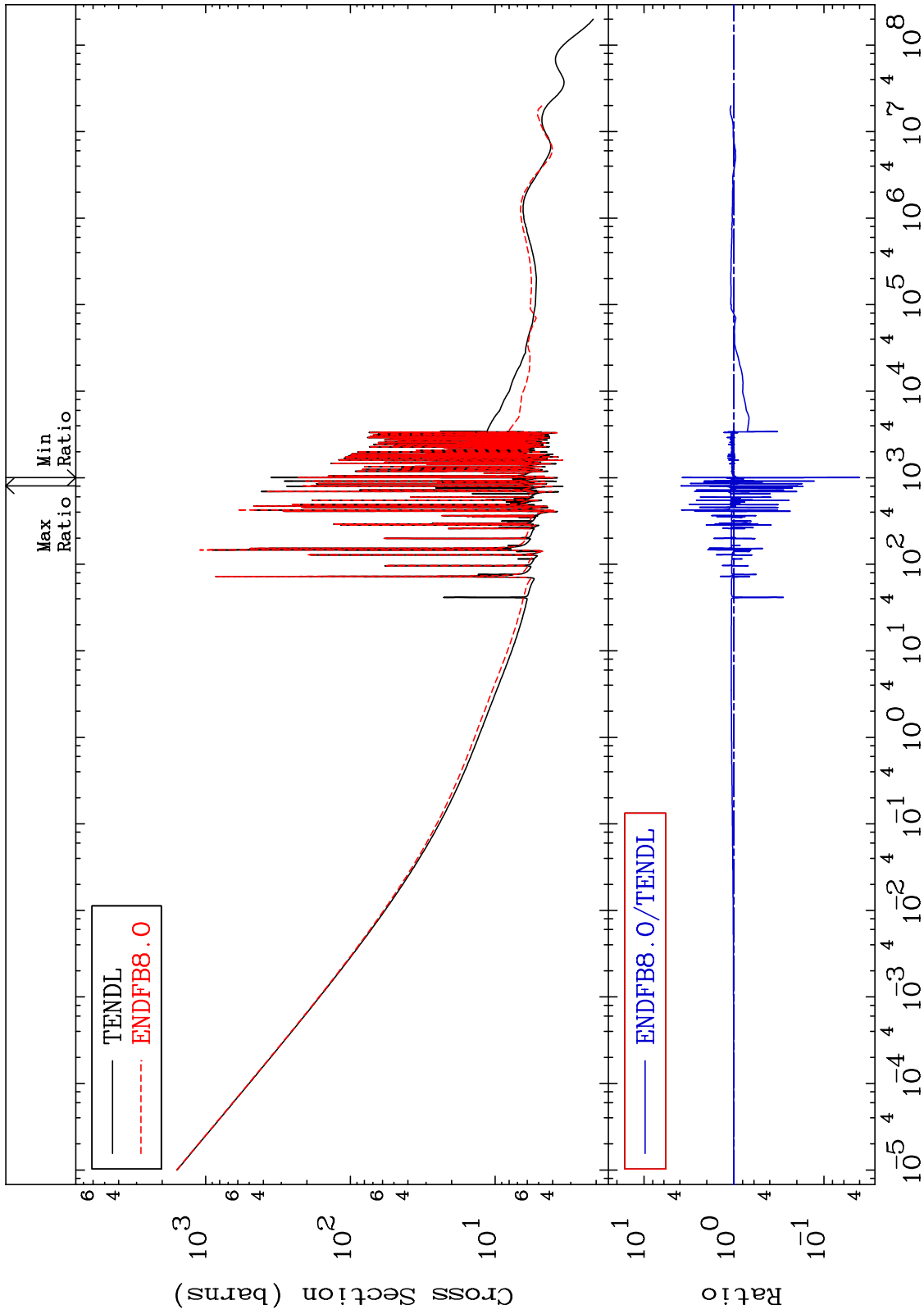
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5331

Total
Cross Section

53-I -129
-96.00 To 289.7 %



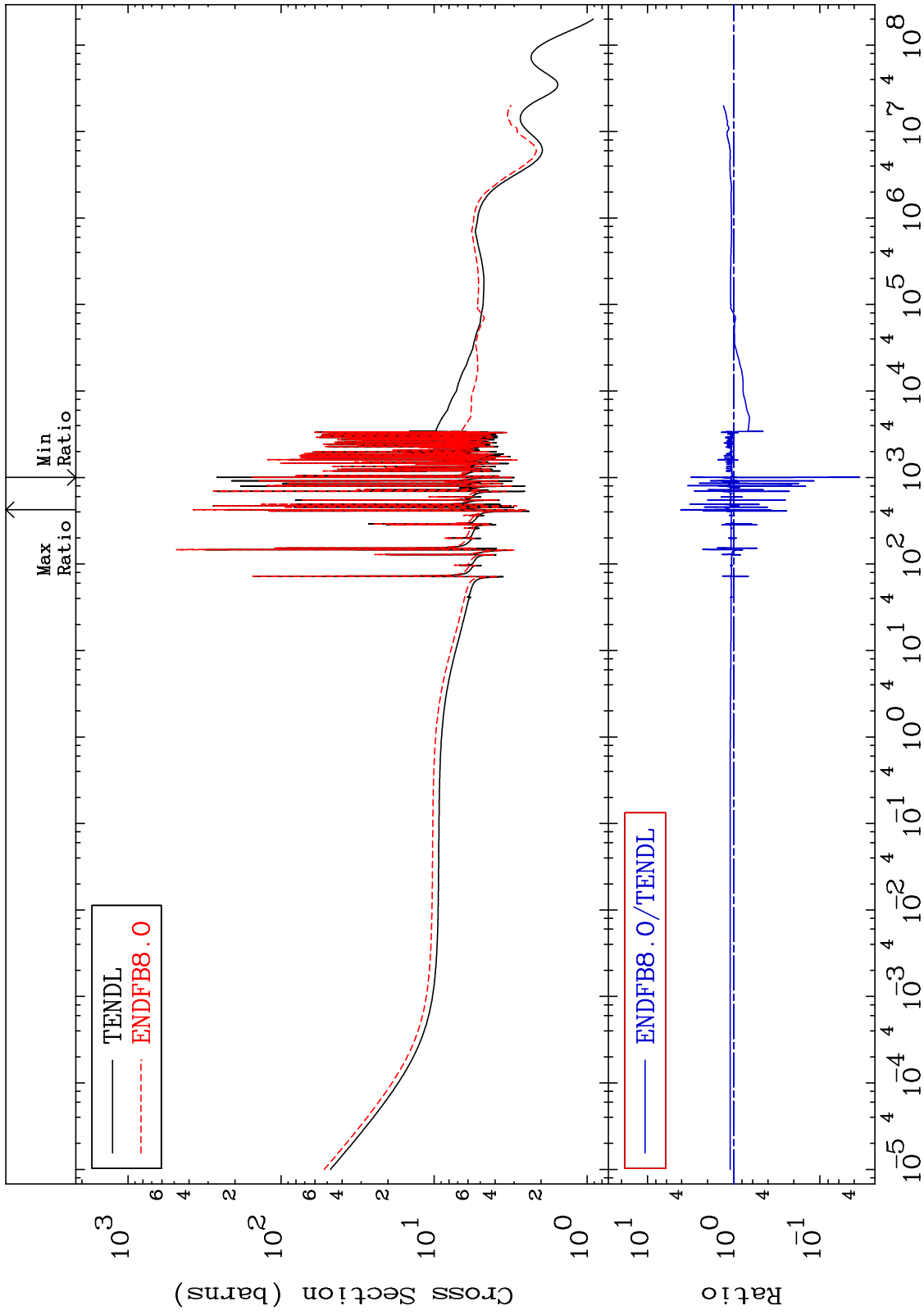
Incident Energy (eV)

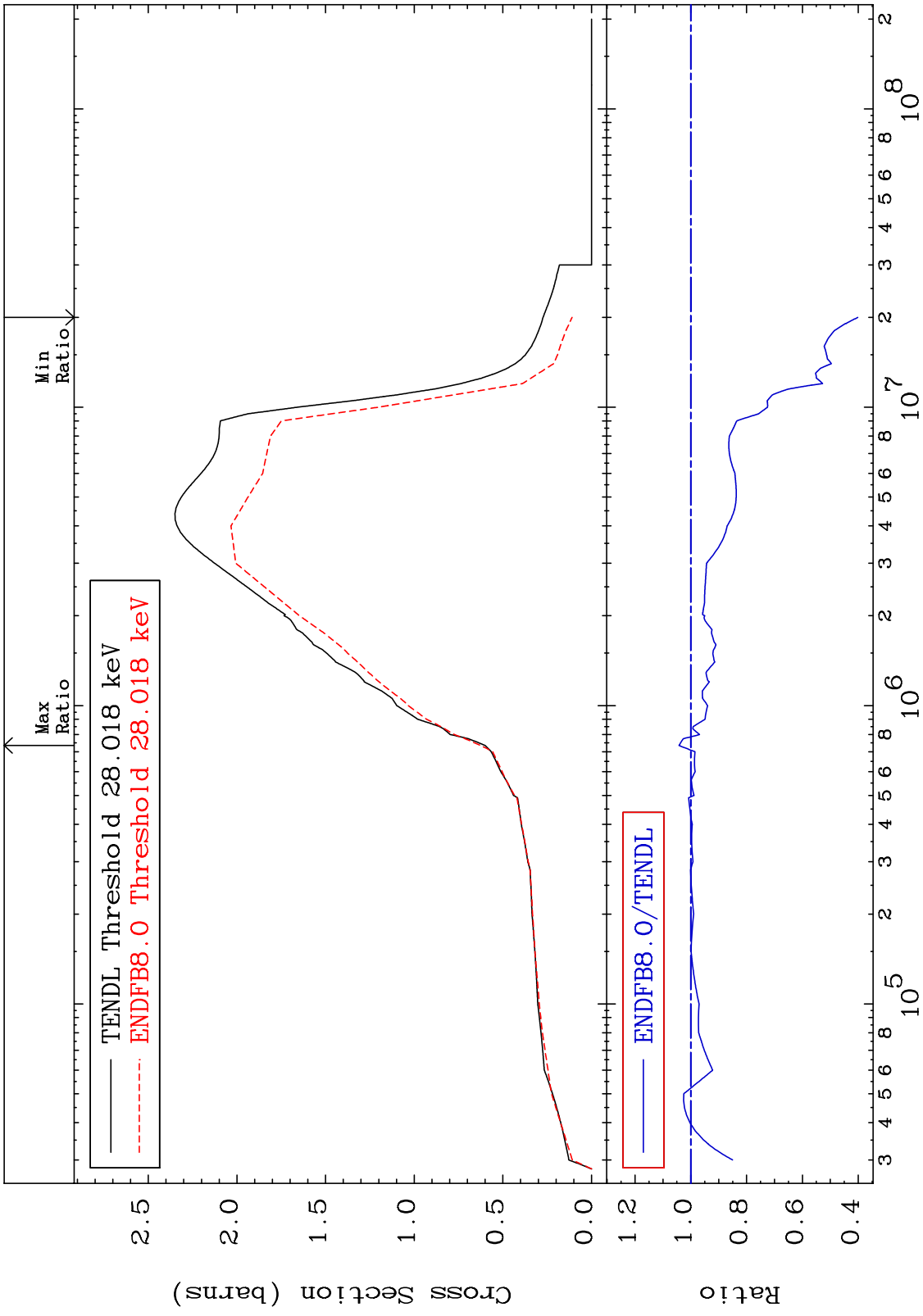
53-I -129

MAT 5331

Elastic
Cross Section

53-I -129
-96.55 To 309.8 %

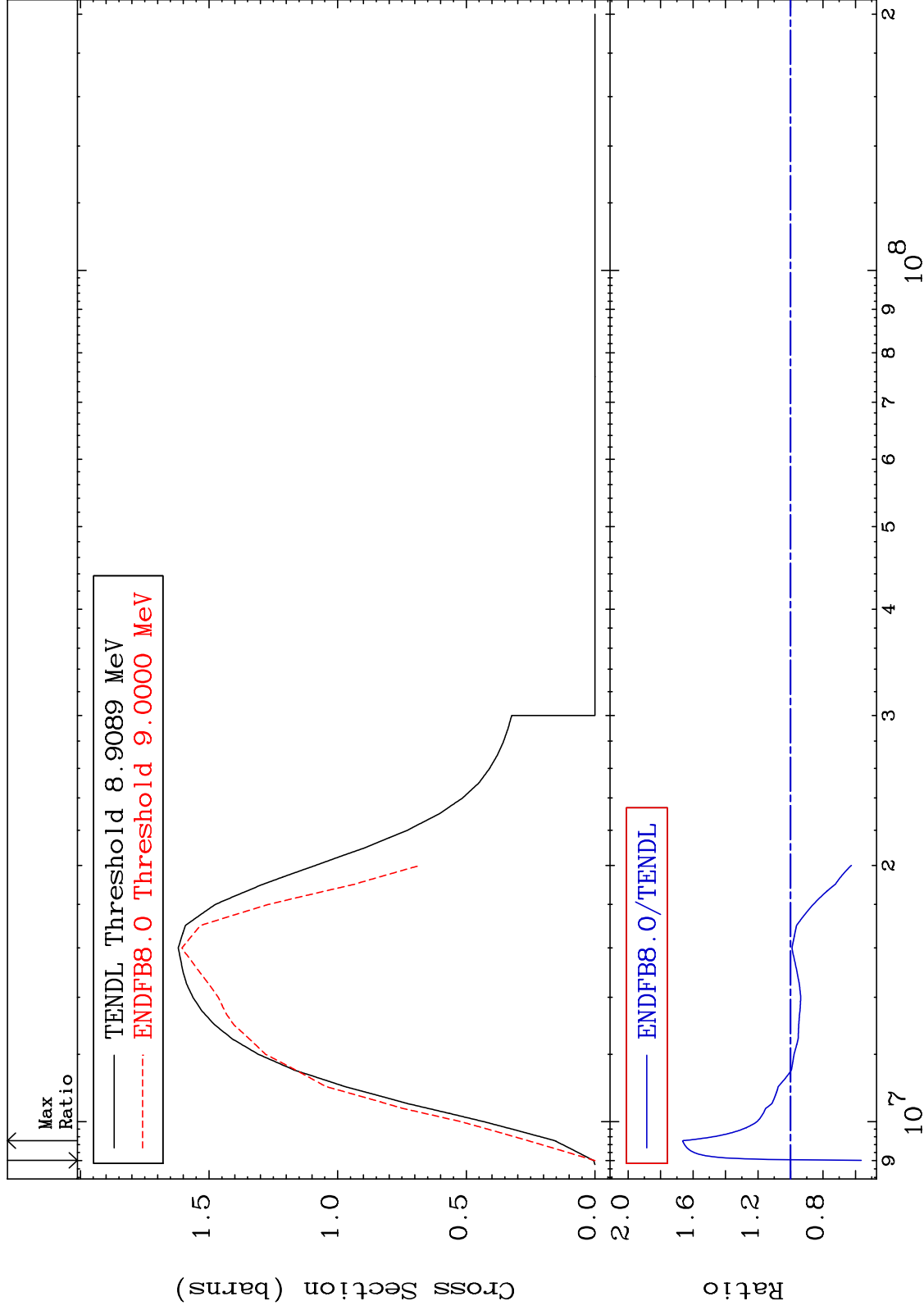




MAT 5331

(n,2n)
Cross Section

53-I -129
-43.57 To 66.54 %



4

Incident Energy (eV)

53-I -129

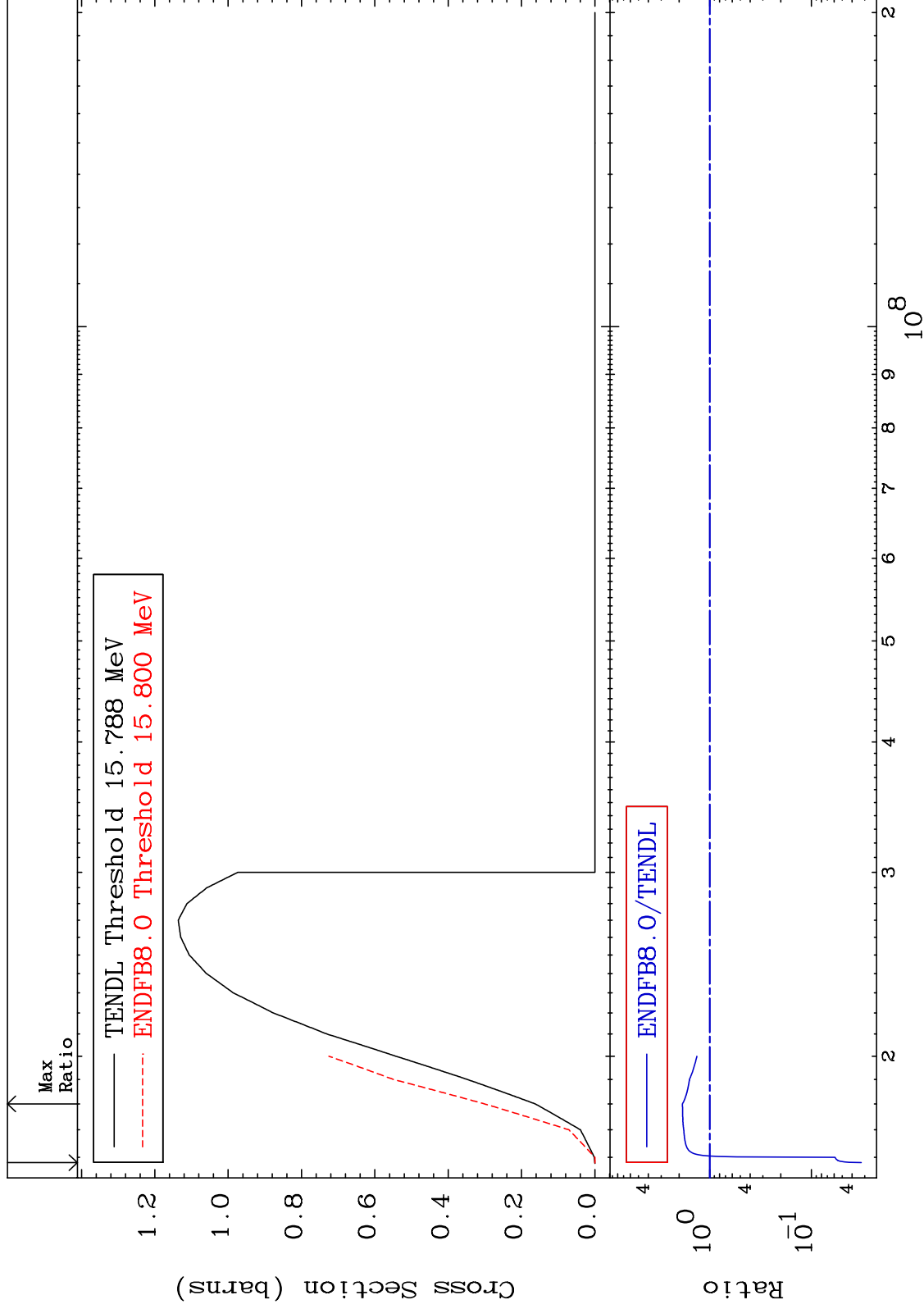
MAT 5331

(n,3n)

53-I -129

Cross Section

-96.76 To 85.08 %



5

Incident Energy (eV)

53-I -129

MAT 5331

(n,n') α

53-I -129

-33.16 To 9999. %

Cross Section

Max Ratio

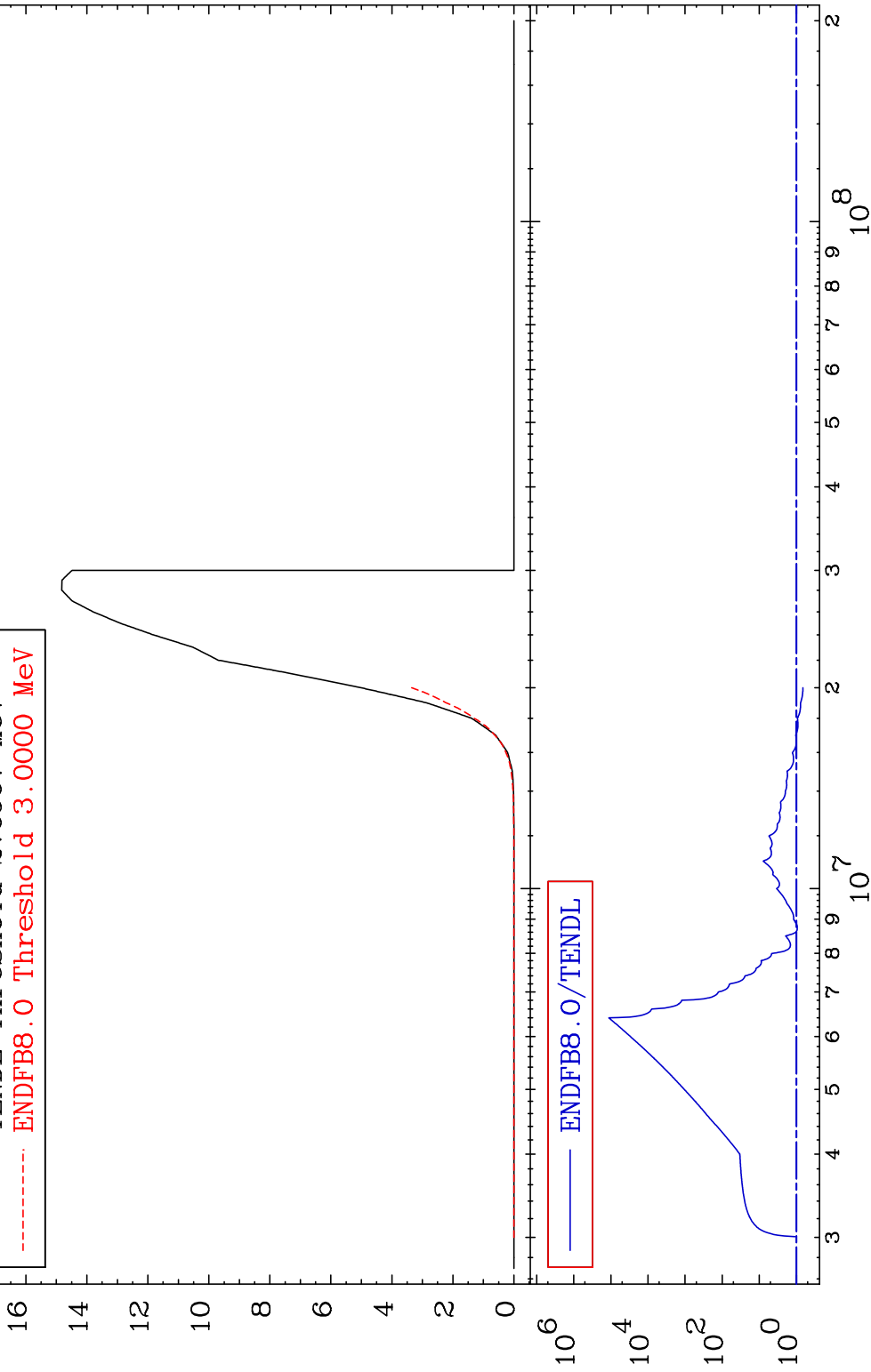
Min Ratio

— TENDL Threshold 2.6967 MeV
- - - ENDFB8.0 Threshold 3.0000 MeV

— ENDFB8.0/TENDL

Cross Section (milli-barns)

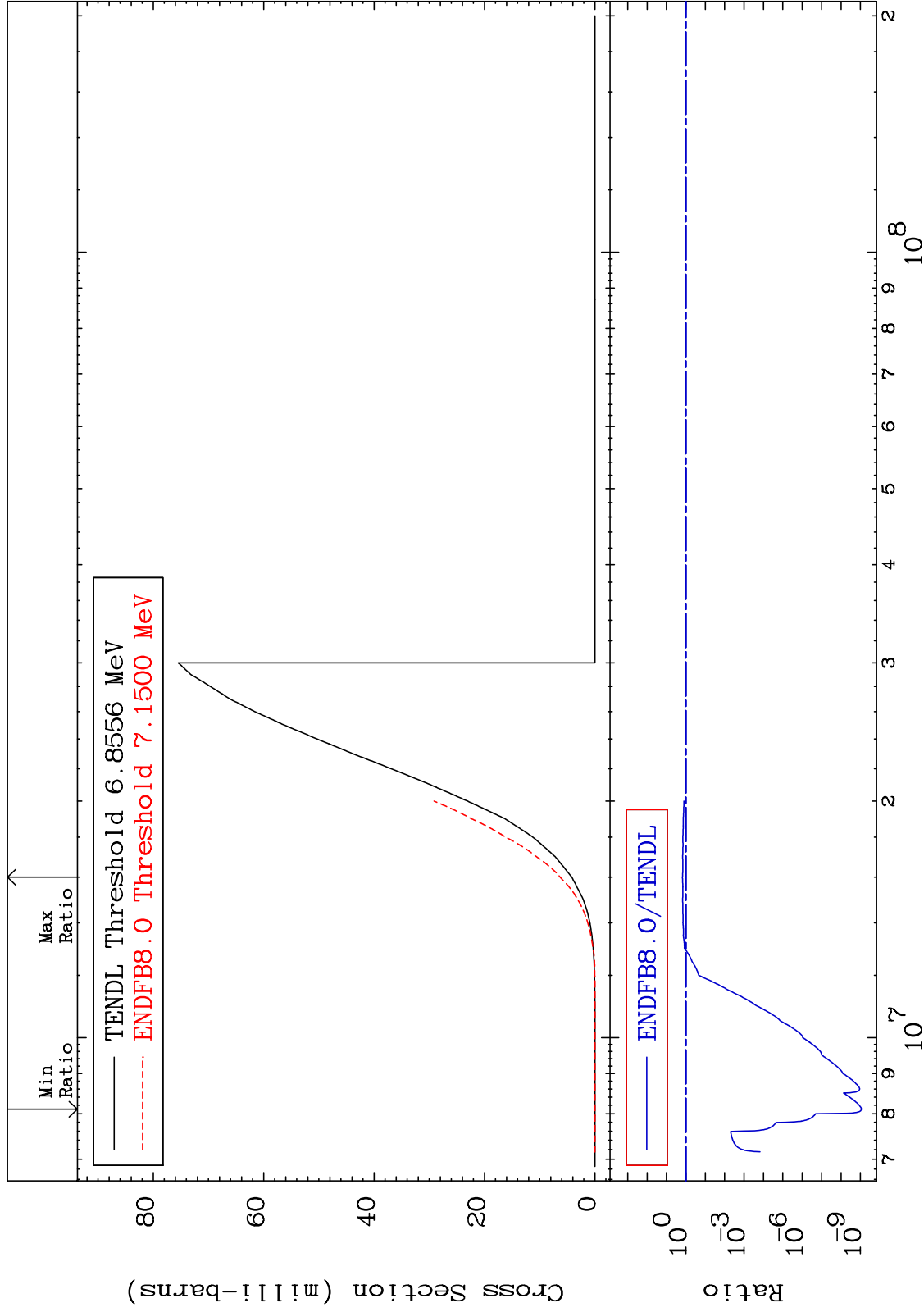
Ratio



MAT 5331

(n,n') p
Cross Section

53-I -129
-100.0 To 50.64 %



7

Incident Energy (eV)

53-I -129

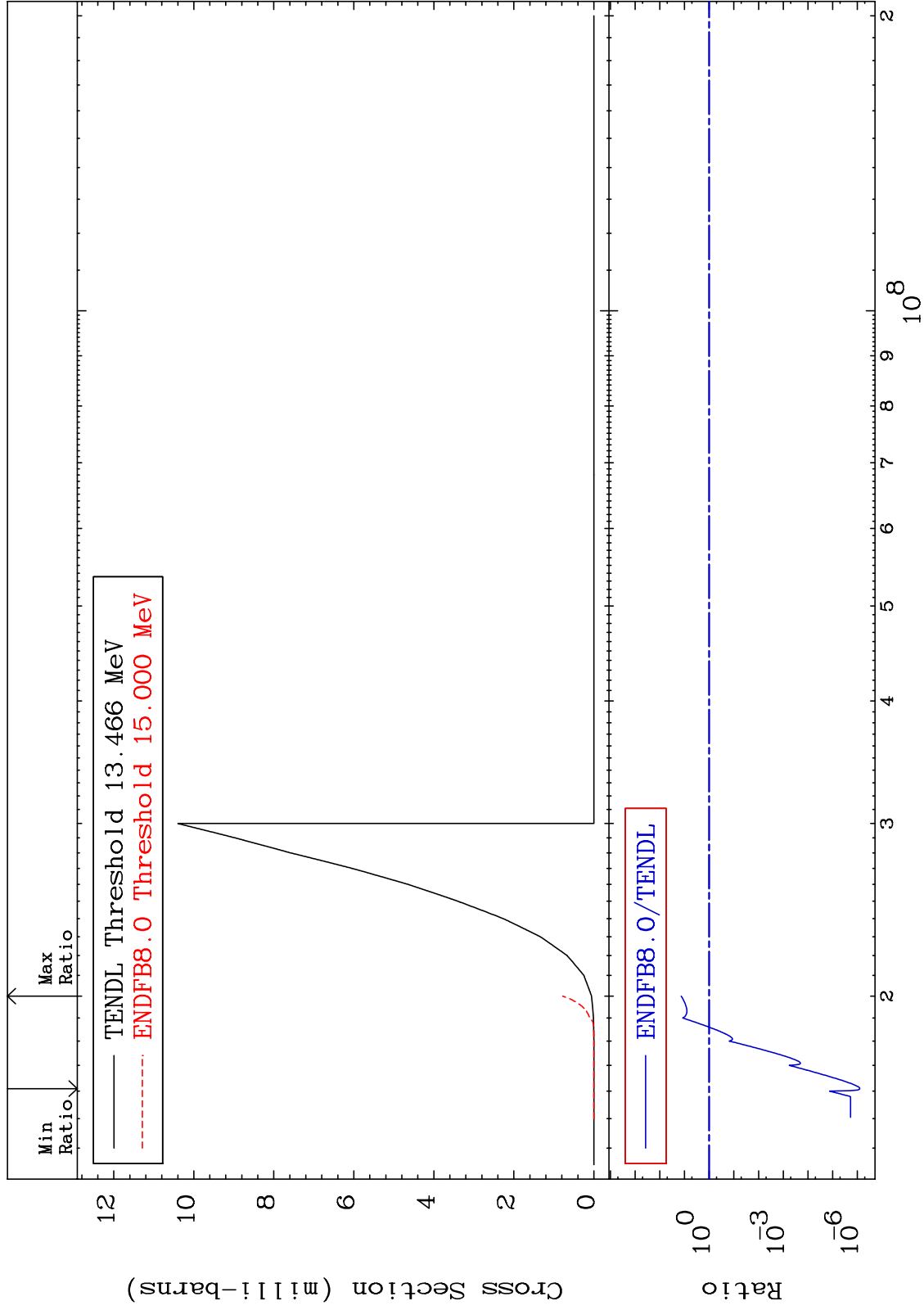
MAT 5331

(n,n') d

53-I -129

Cross Section

-100.0 To 1252. %



8

Incident Energy (eV)

53-I -129

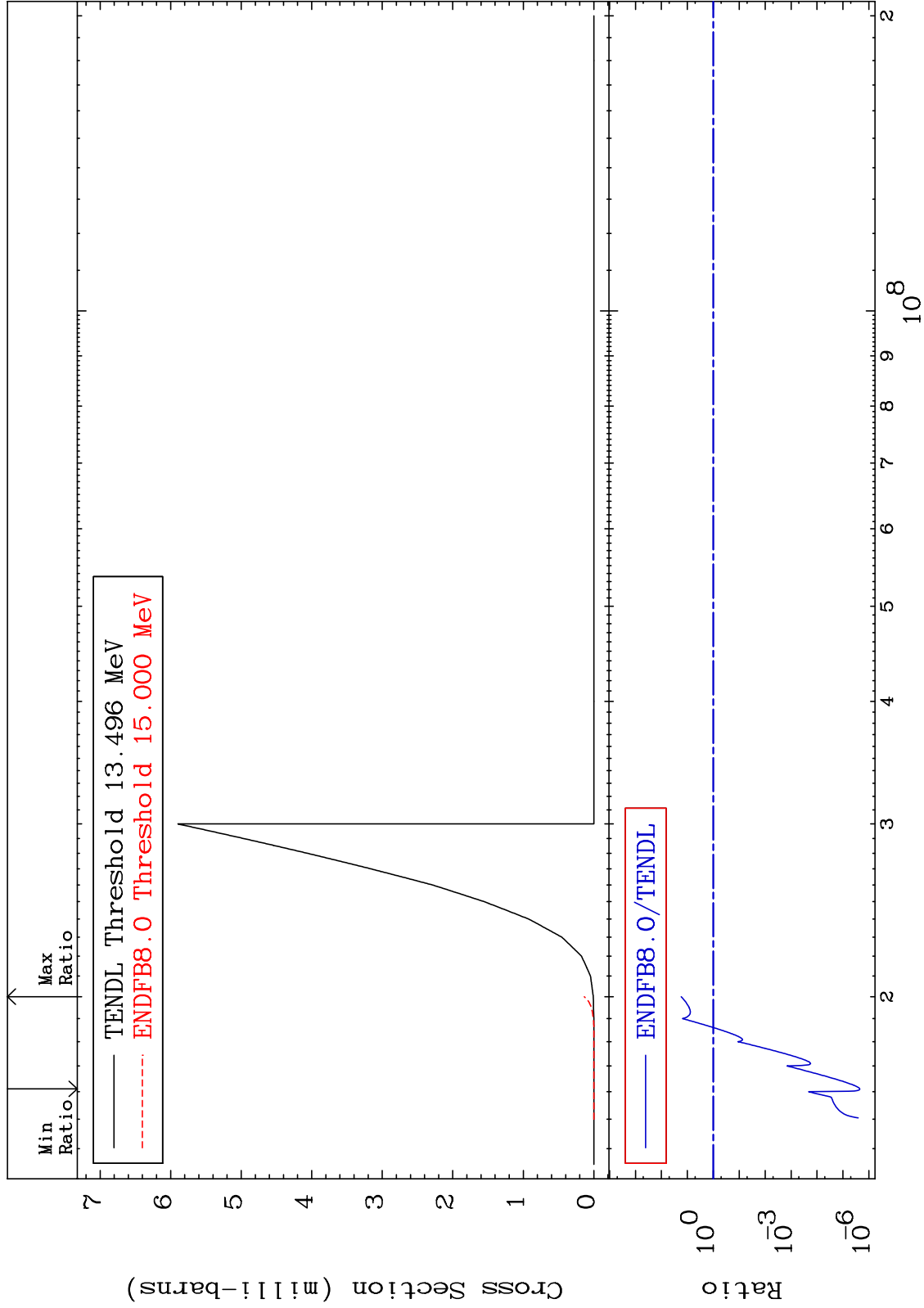
MAT 5331

(n,n') t

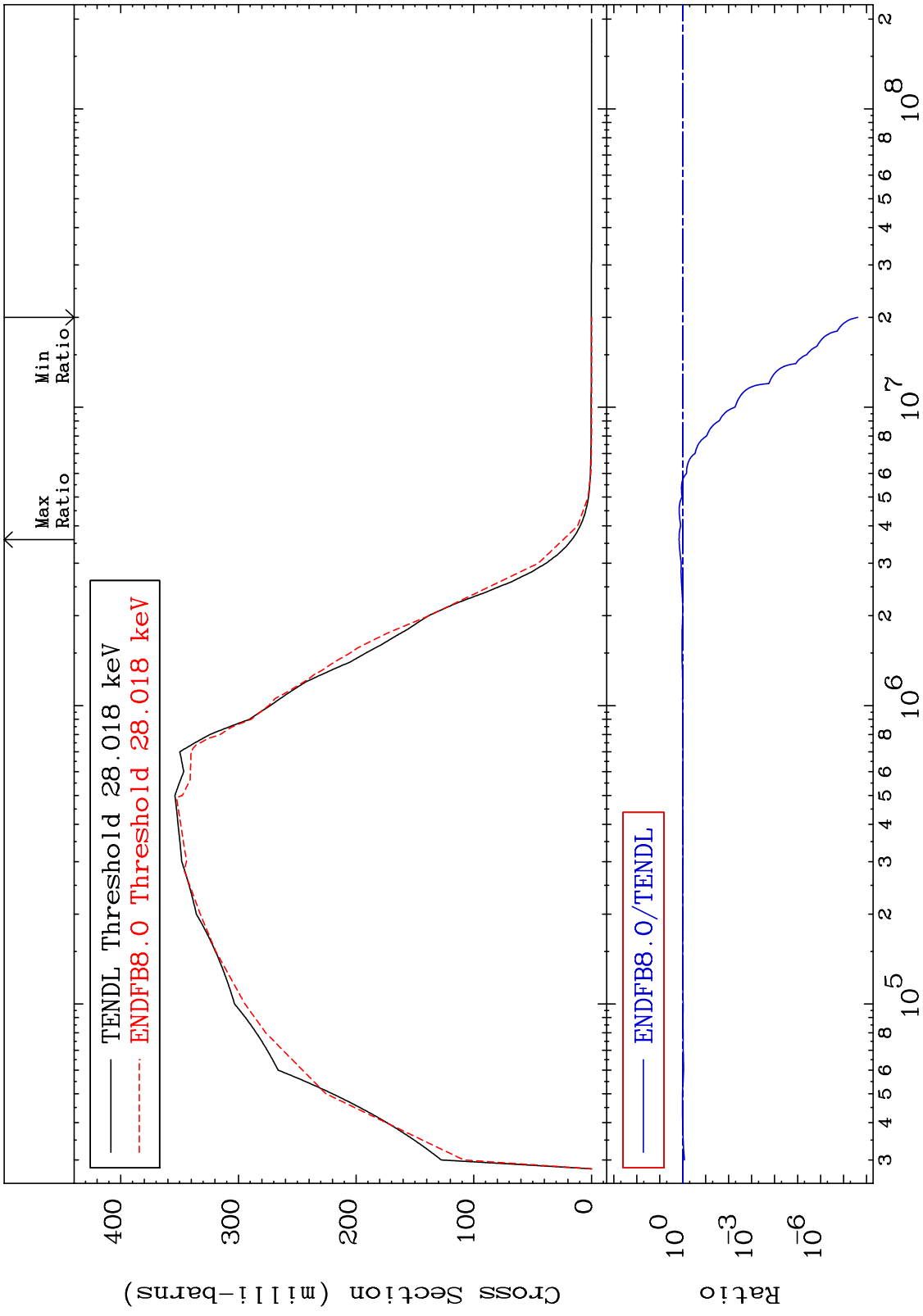
53-I -129

Cross Section

-100.0 To 1617. %



MAT 5331 MT= 51 (n,n') Level Cross Section 53-I -129
 -100.0 To 44.85 %

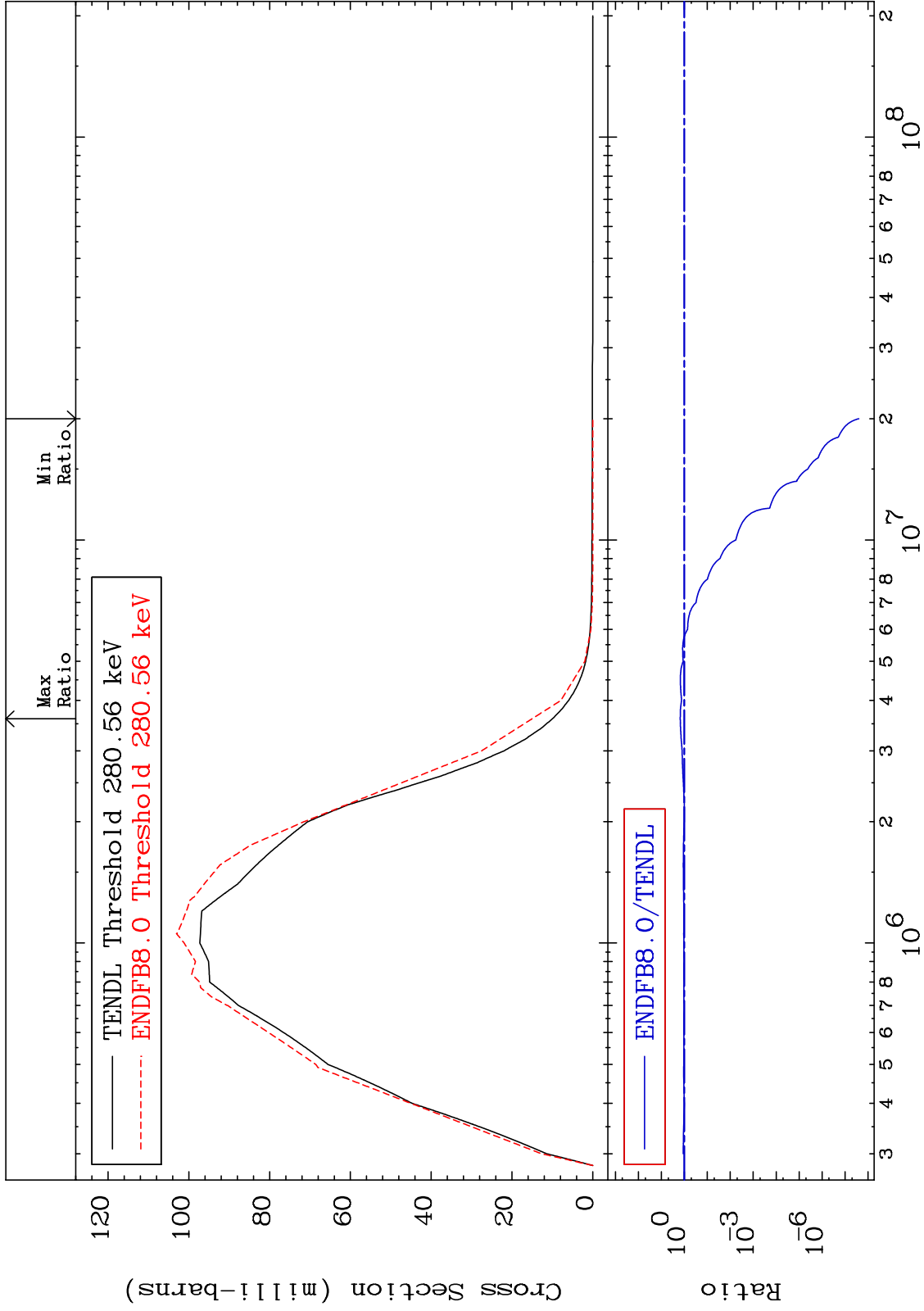


10 53-I -129

MAT 5331

MT= 52 (n,n') Level
Cross Section

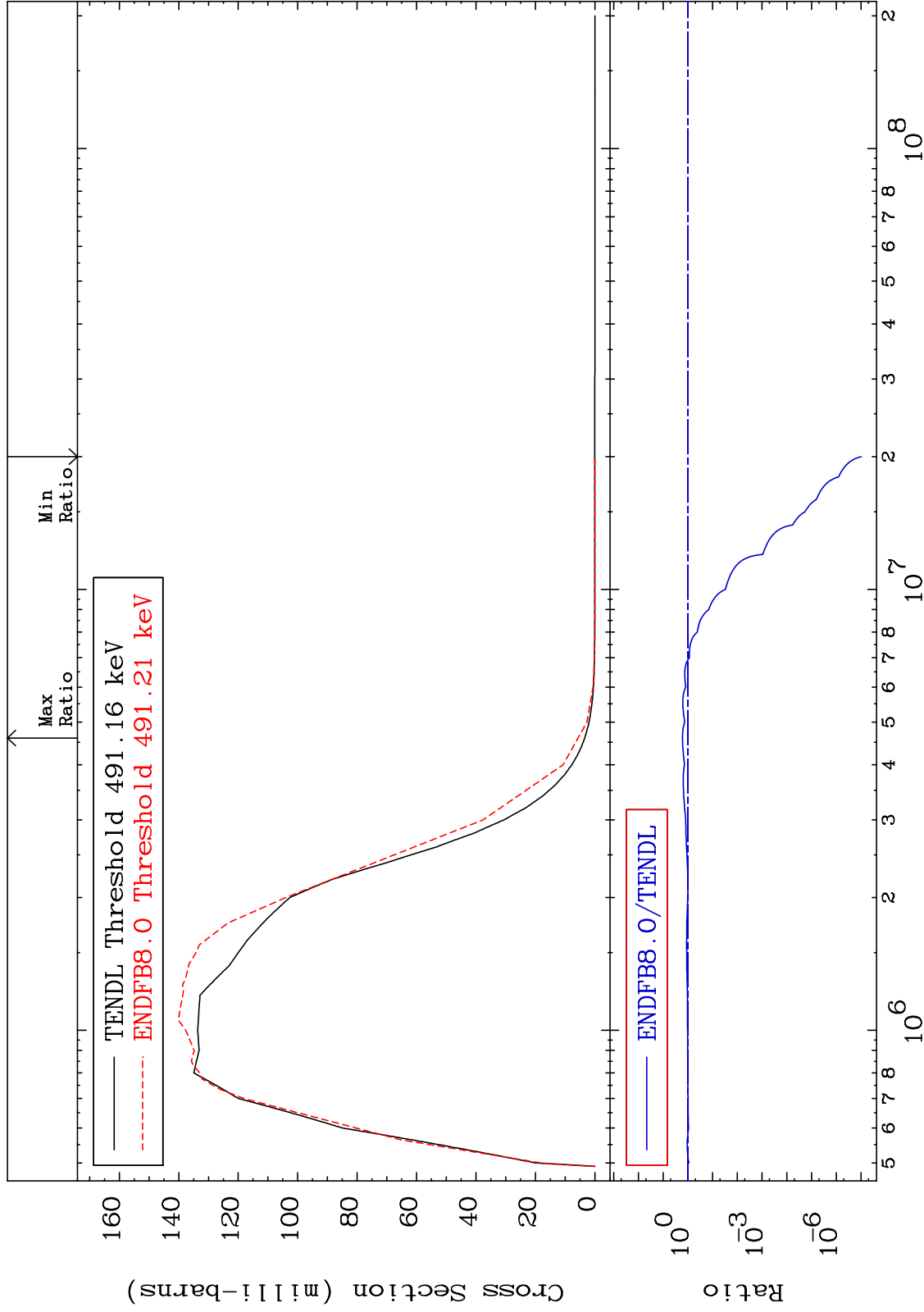
53-I -129
-100.0 To 50.90 %



MAT 5331

MT= 53 (n,n') Level
Cross Section

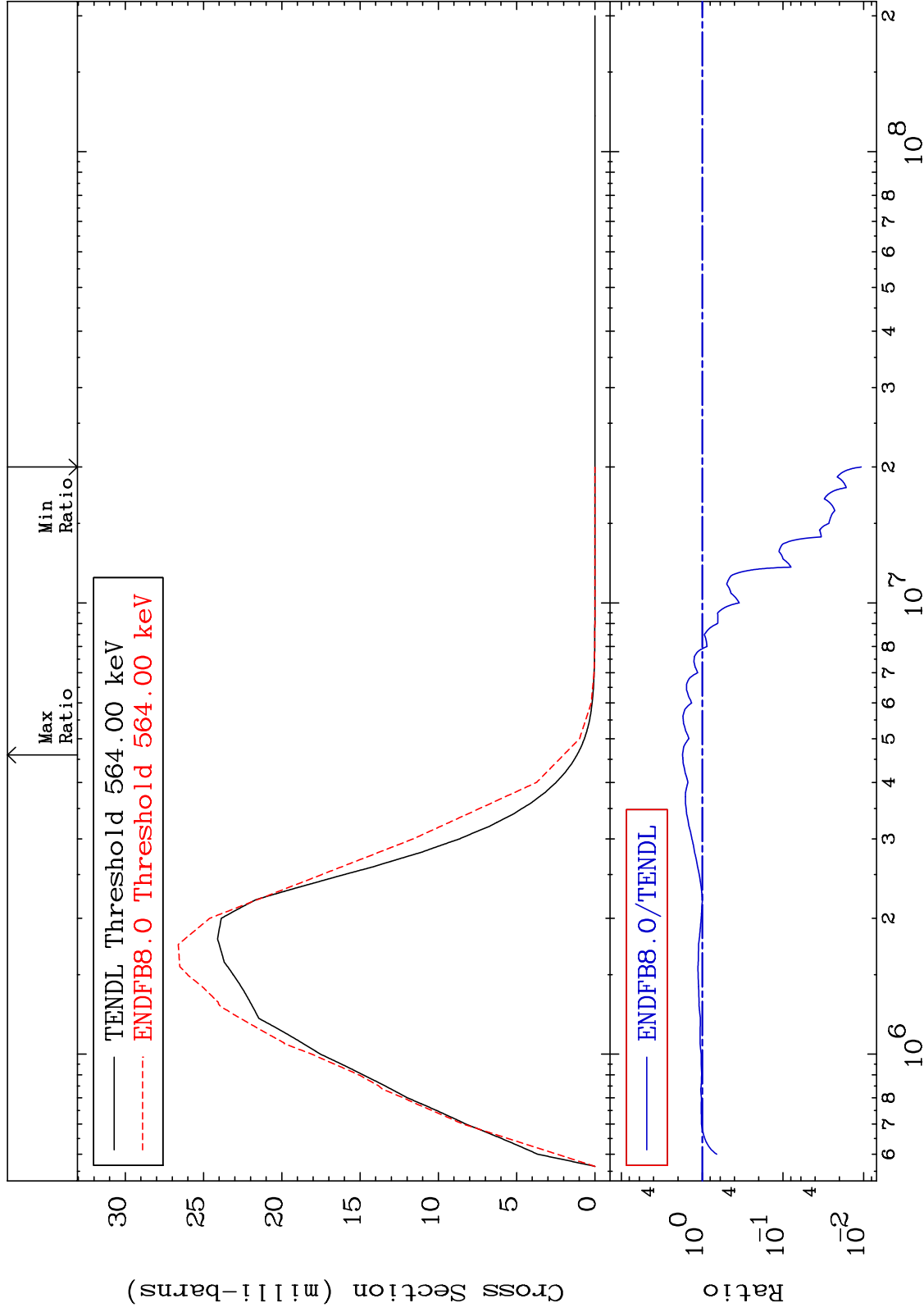
53-I -129
-100.0 To 65.66 %



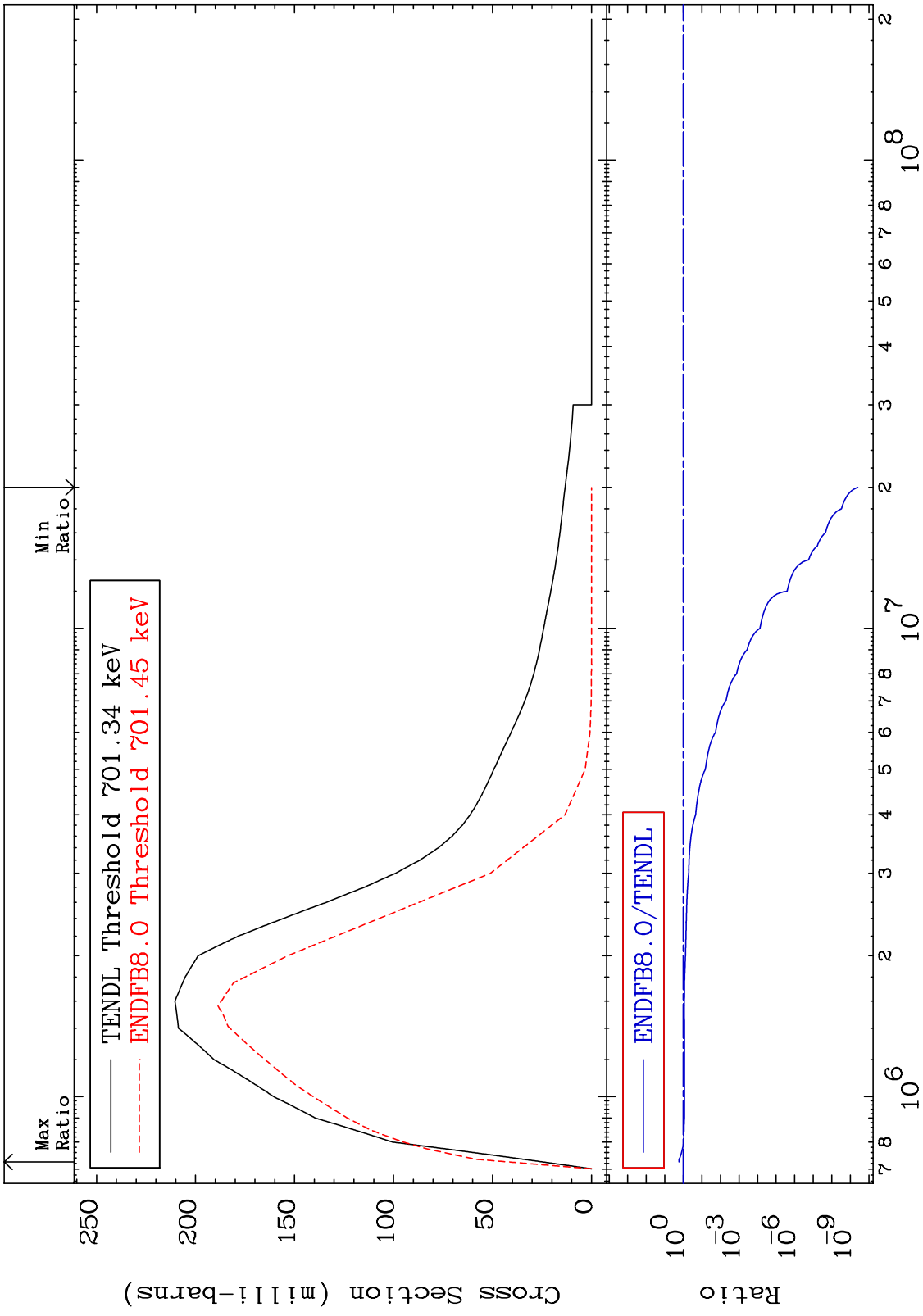
MAT 5331

MT= 54 (n,n') Level
Cross Section

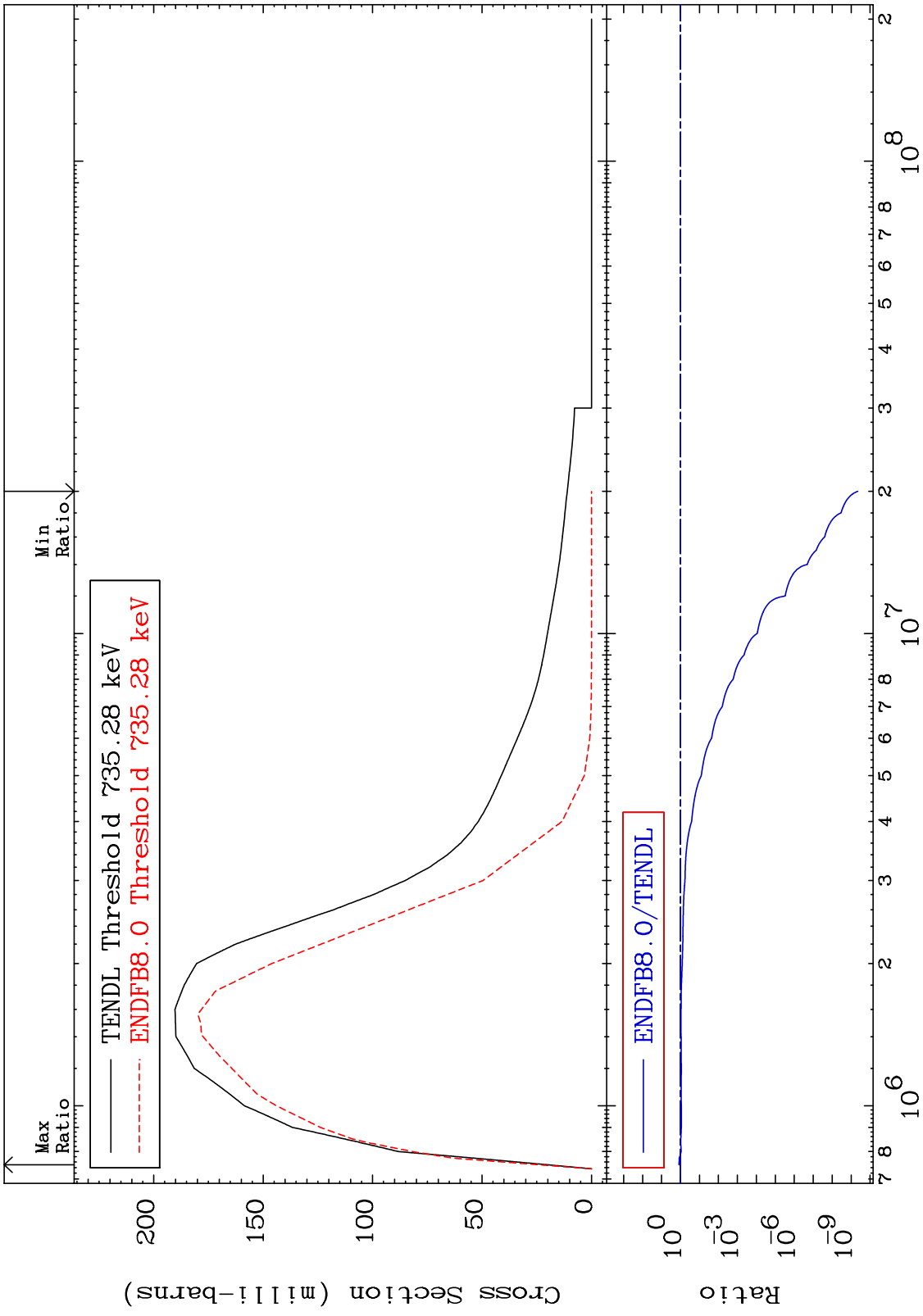
53-I -129
-98.93 To 75.77 %



MAT 5331 MT= 55 (n,n') Level Cross Section 53-I -129
 -100.0 To 70.73 %



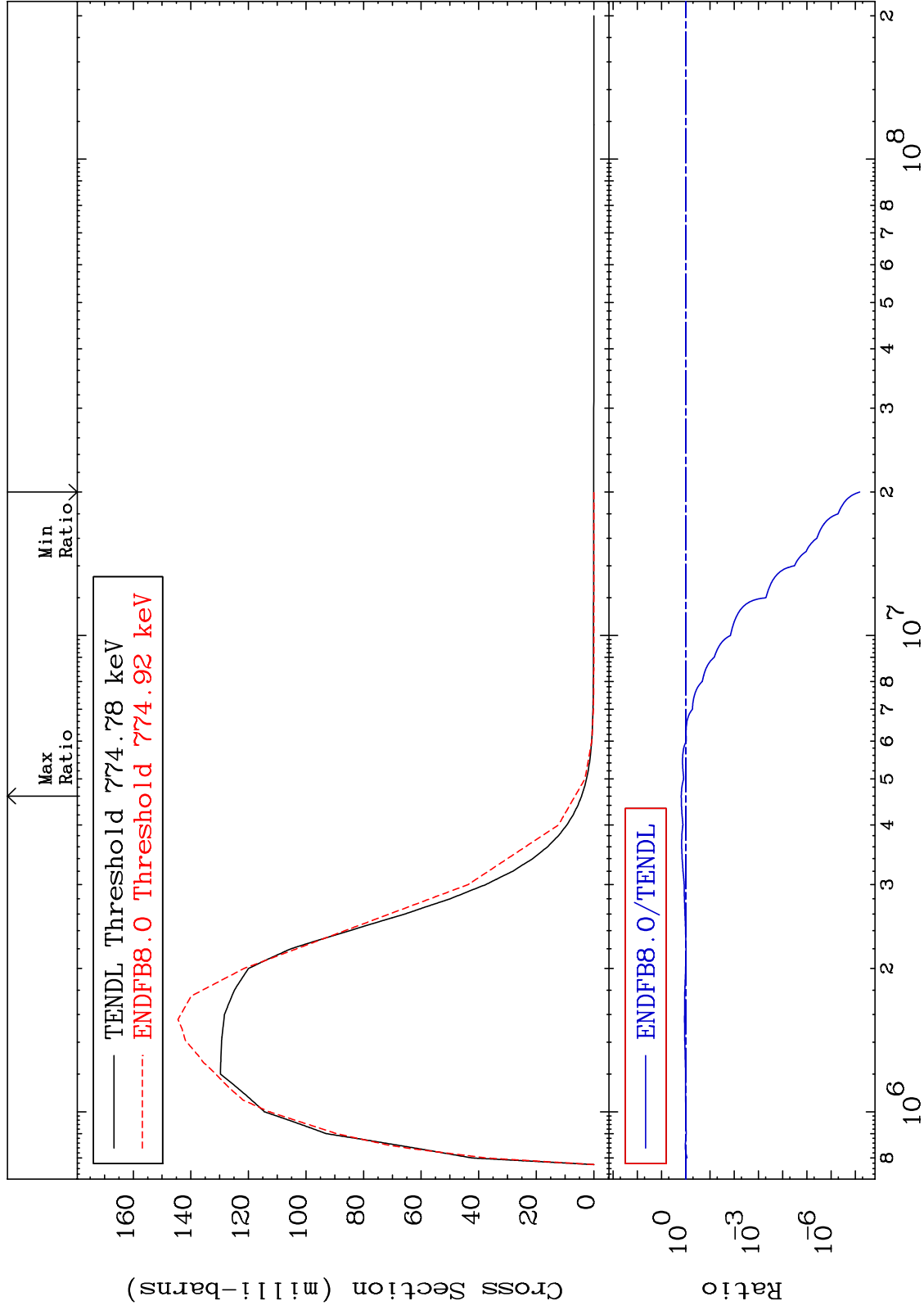
MAT 5331 MT= 56 (n,n') Level Cross Section 53-I -129
 -100.0 To 19.44 %



MAT 5331

MT= 57 (n,n') Level
Cross Section

53-I -129
-100.0 To 53.39 %

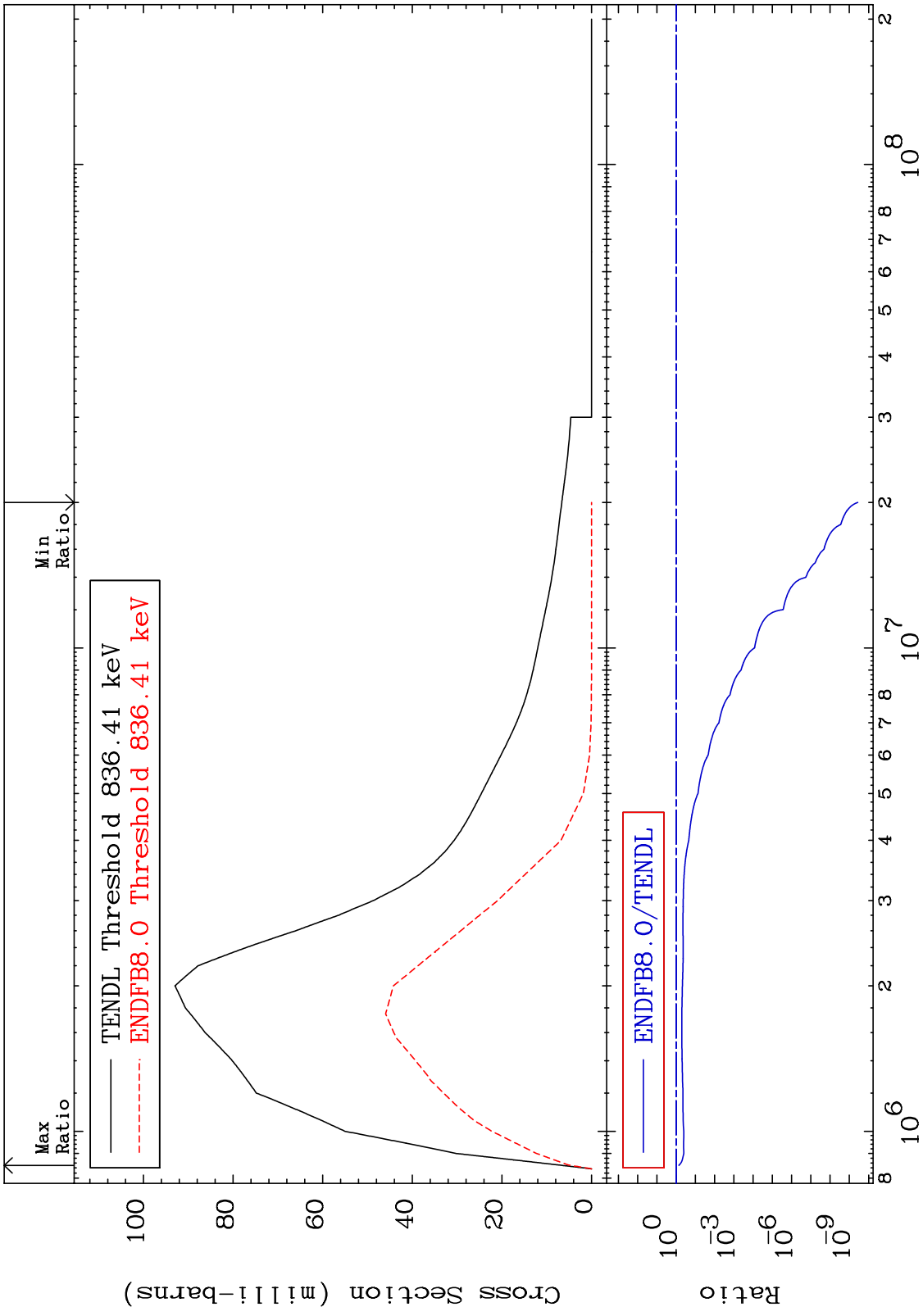


16

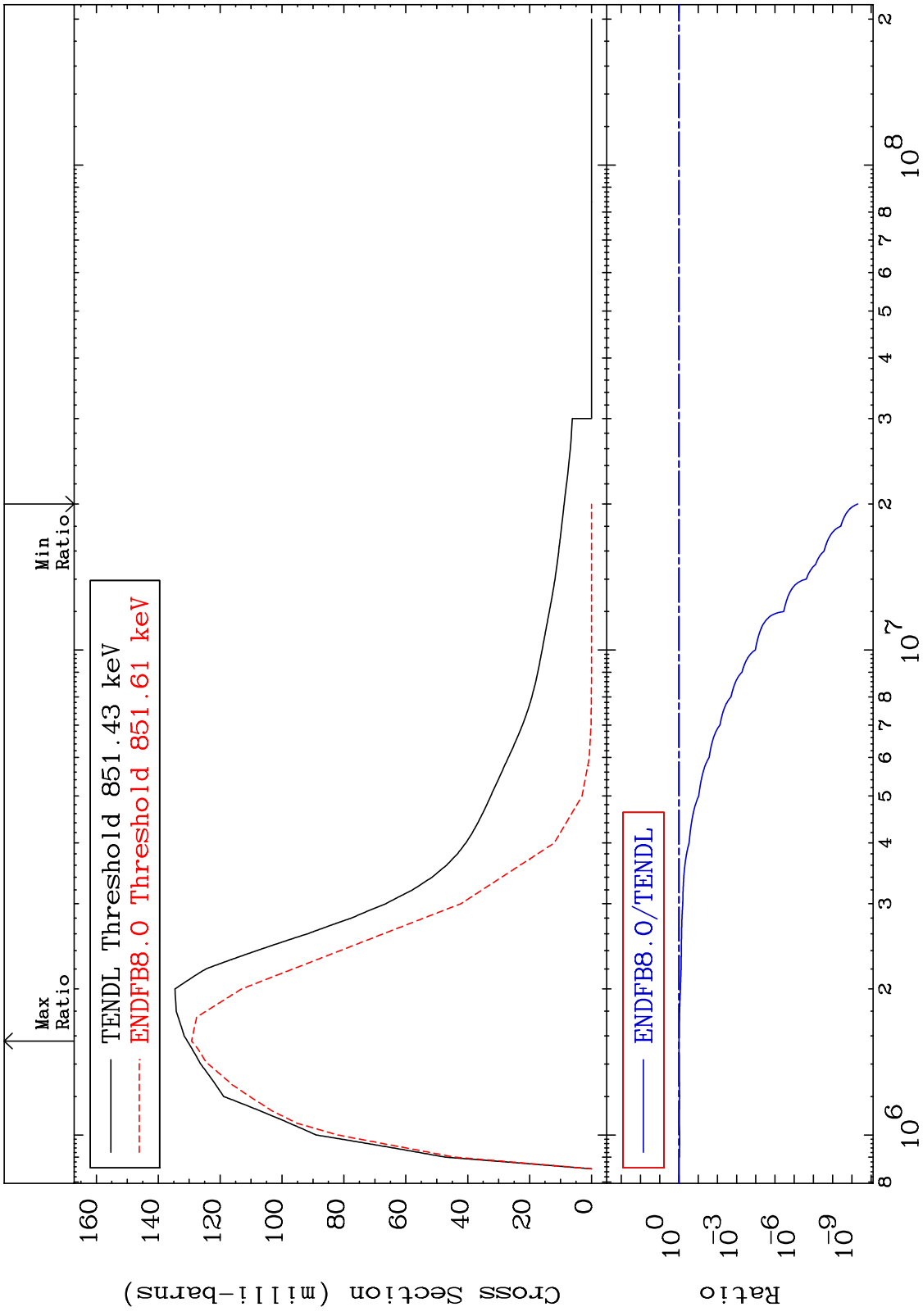
Incident Energy (eV)

53-I -129

MAT 5331 MT= 58 (n,n') Level Cross Section 53-I -129 -100.0 To -29.11%

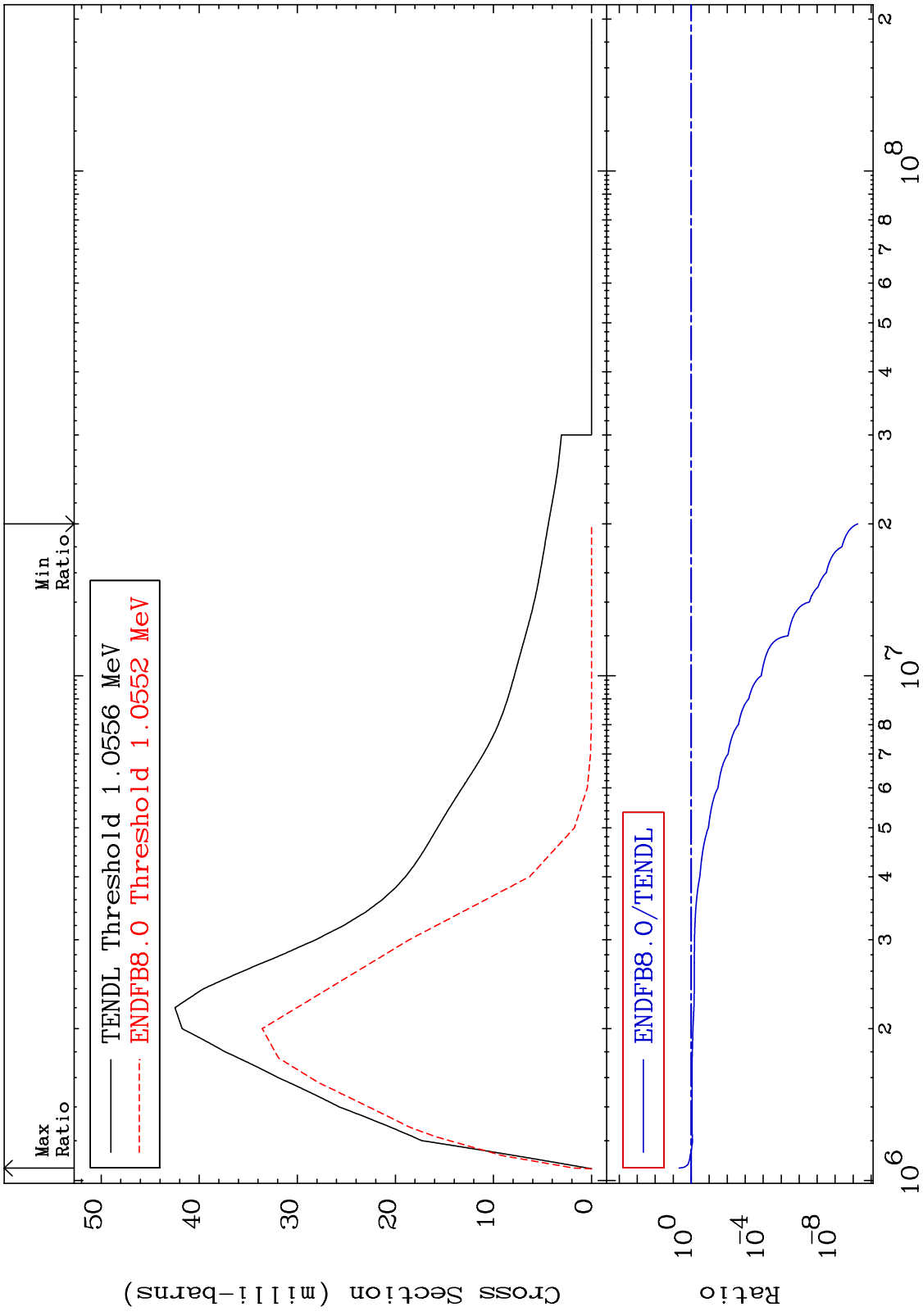


MAT 5331 MT= 59 (n,n') Level Cross Section 53-I -129
 -100.0 To -1.059%



18 53-I -129

MAT 5331 MT= 60 (n,n') Level Cross Section 53-I -129
 -100.0 To 375.6 %

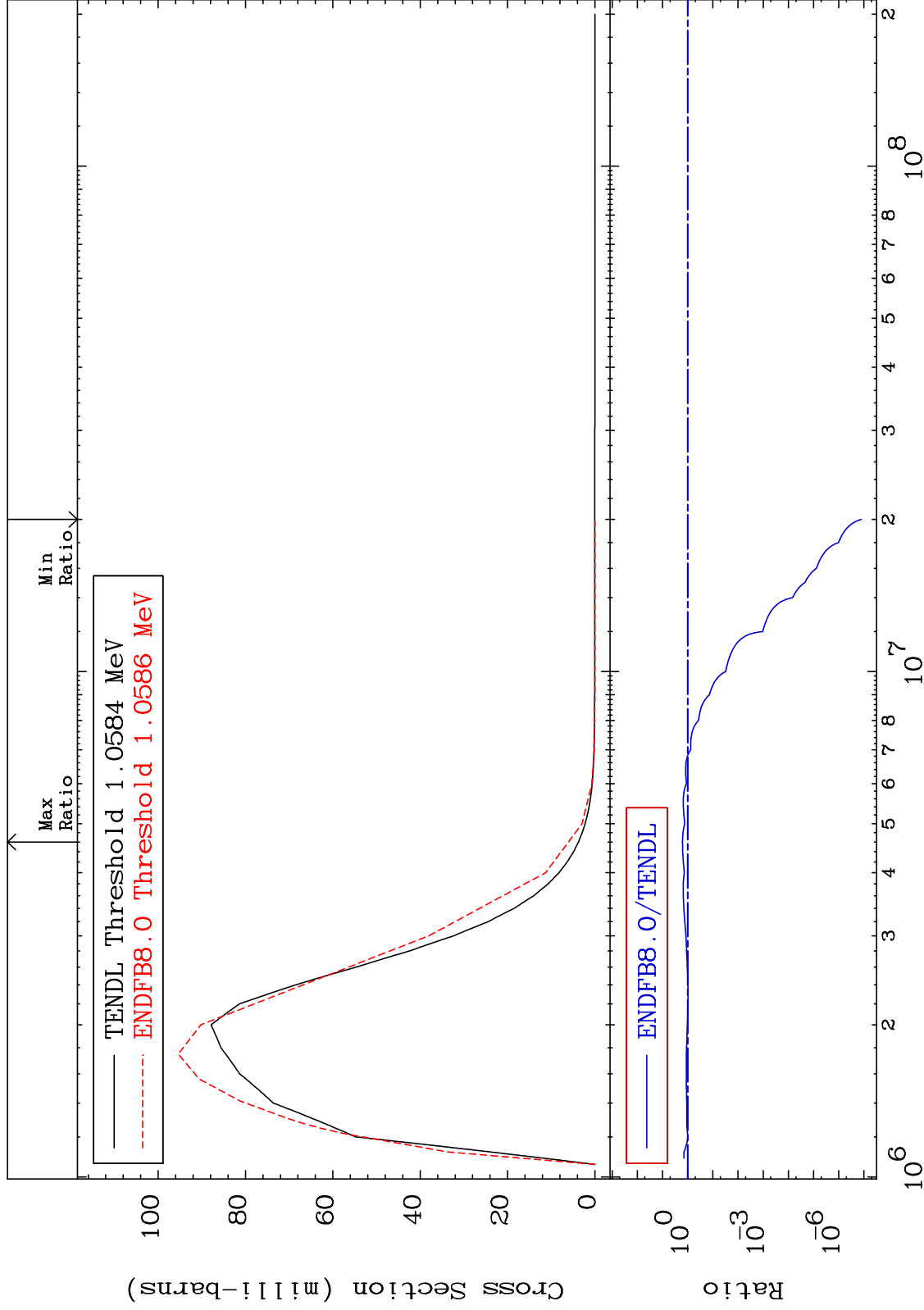


19 53-I -129

MAT 5331

MT= 61 (n,n') Level
Cross Section

53-I -129
-100.0 To 60.89 %



20

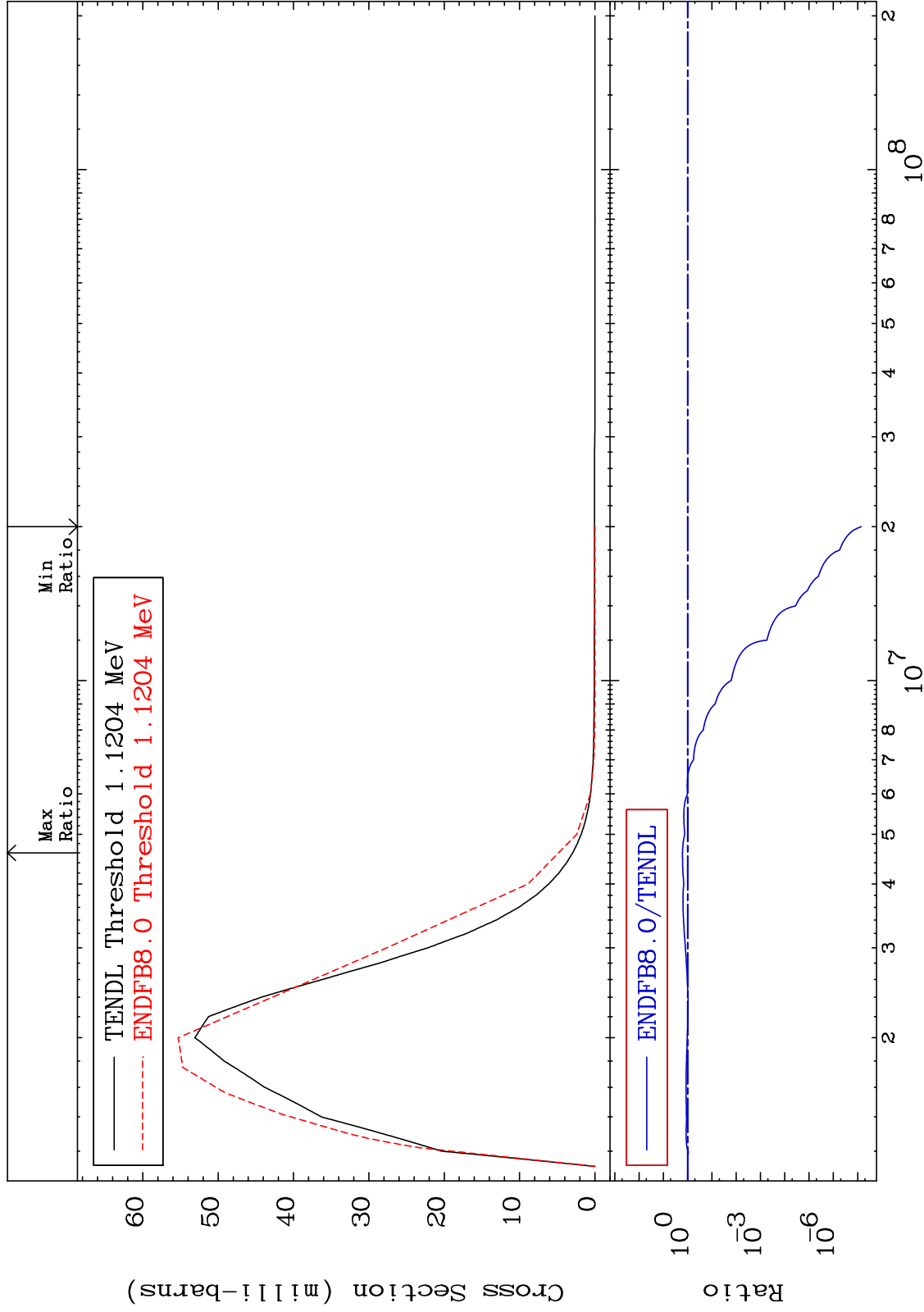
Incident Energy (eV)

53-I -129

MAT 5331

MT= 62 (n,n') Level
Cross Section

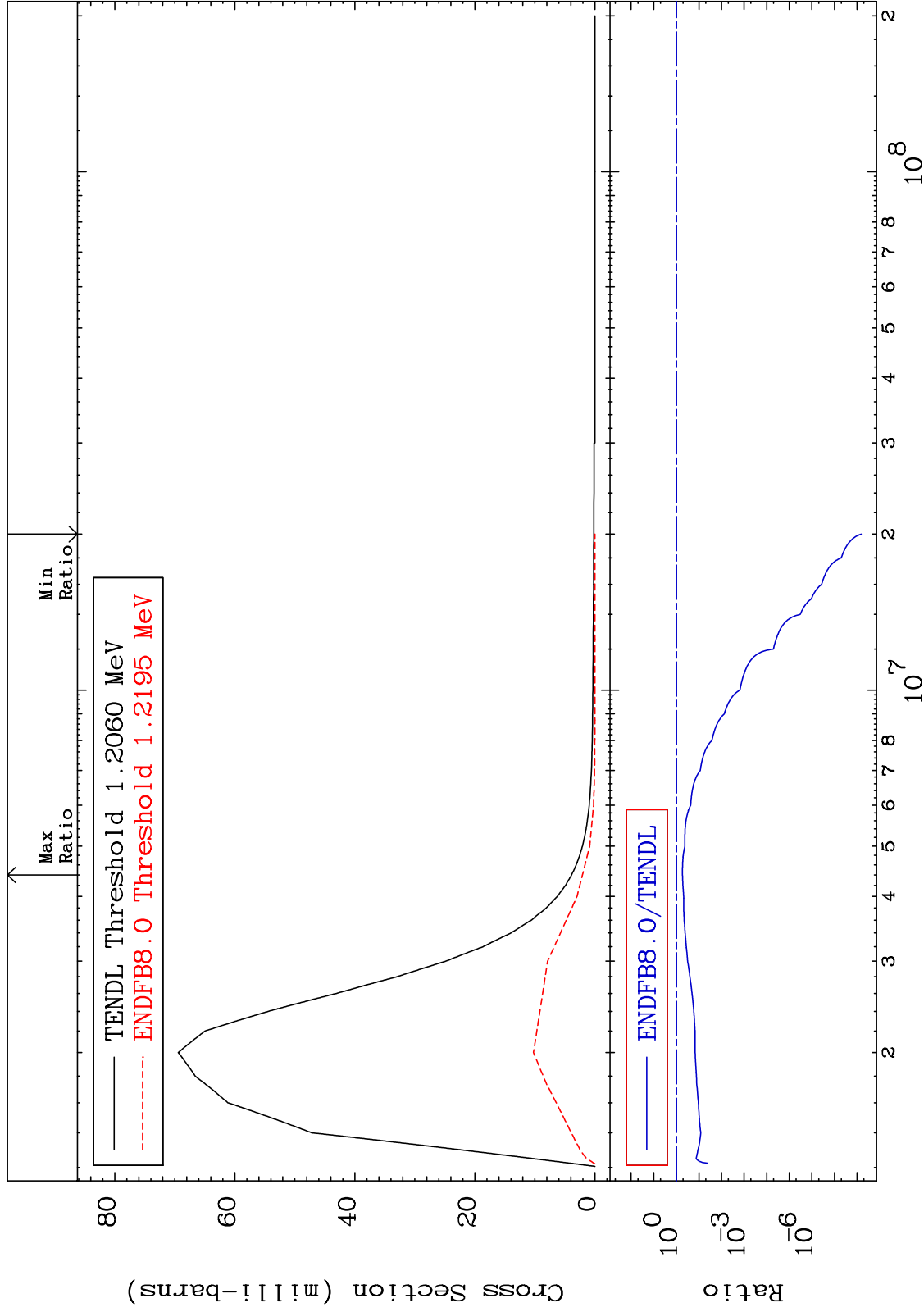
53-I -129
-100.0 To 63.33 %



MAT 5331

MT= 63 (n,n') Level
Cross Section

53-I -129
-100.0 To -46.51%



22

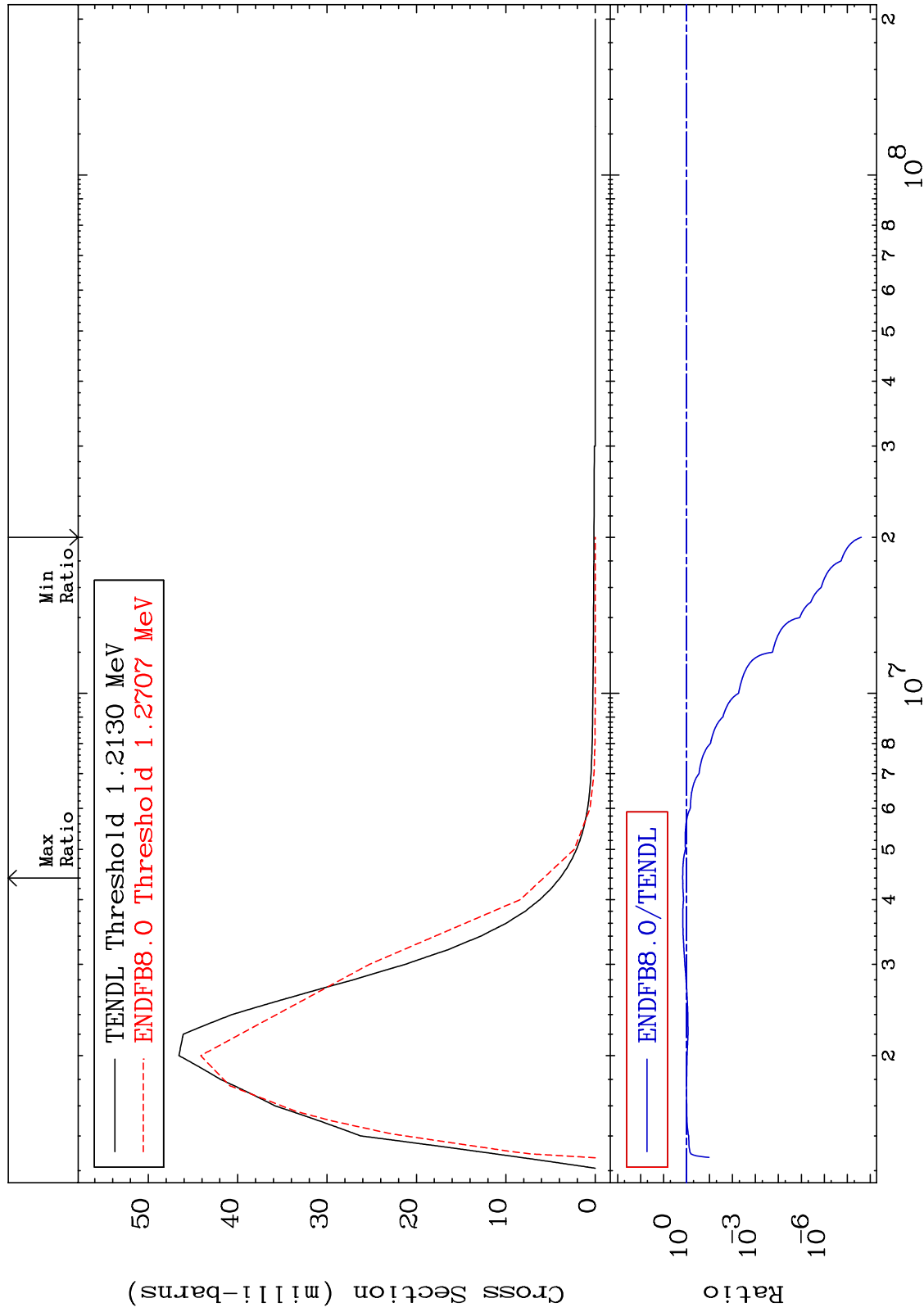
Incident Energy (eV)

53-I -129

MAT 5331

MT= 64 (n,n') Level
Cross Section

53-I -129
-100.0 To 47.12 %



23

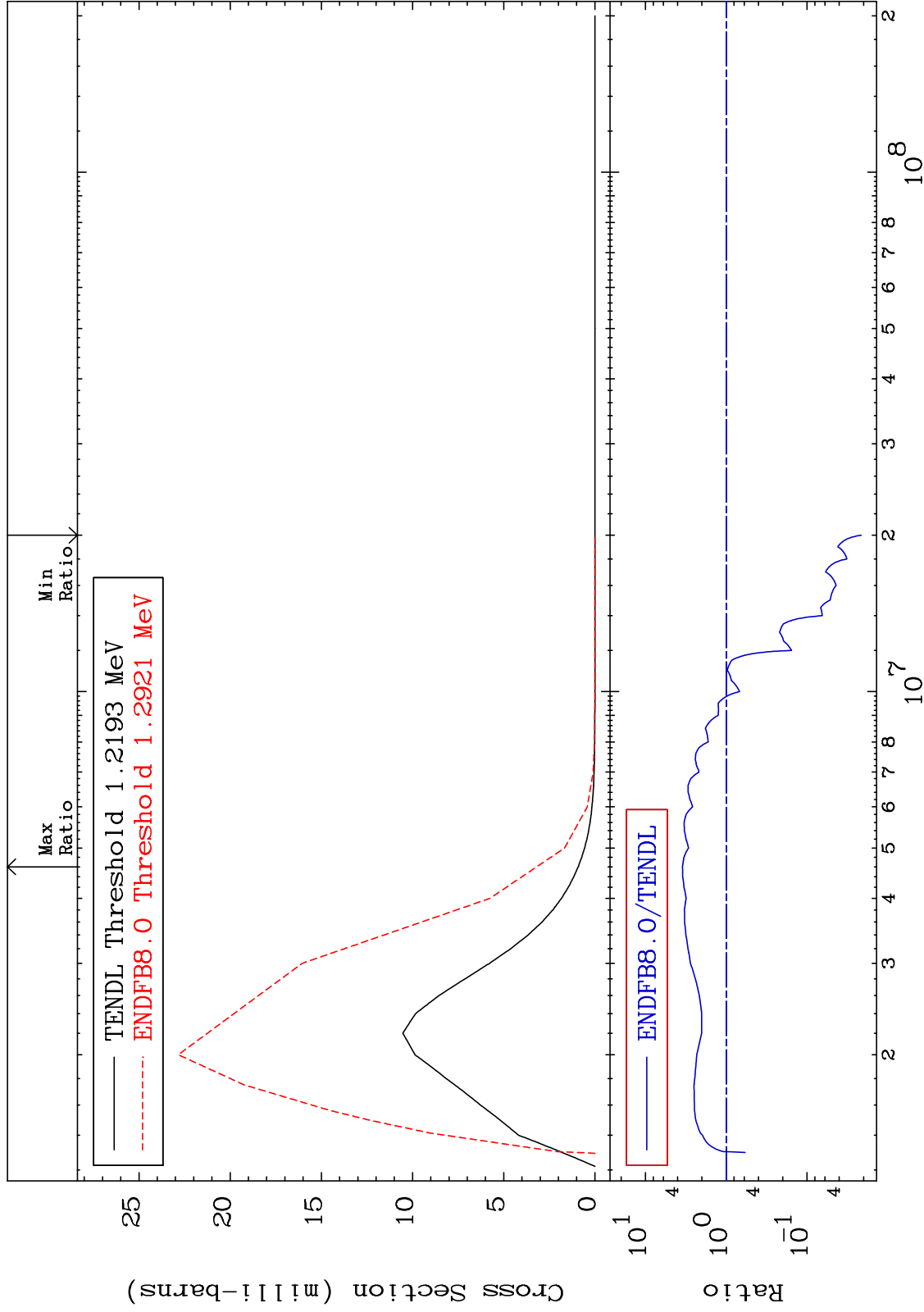
Incident Energy (eV)

53-I -129

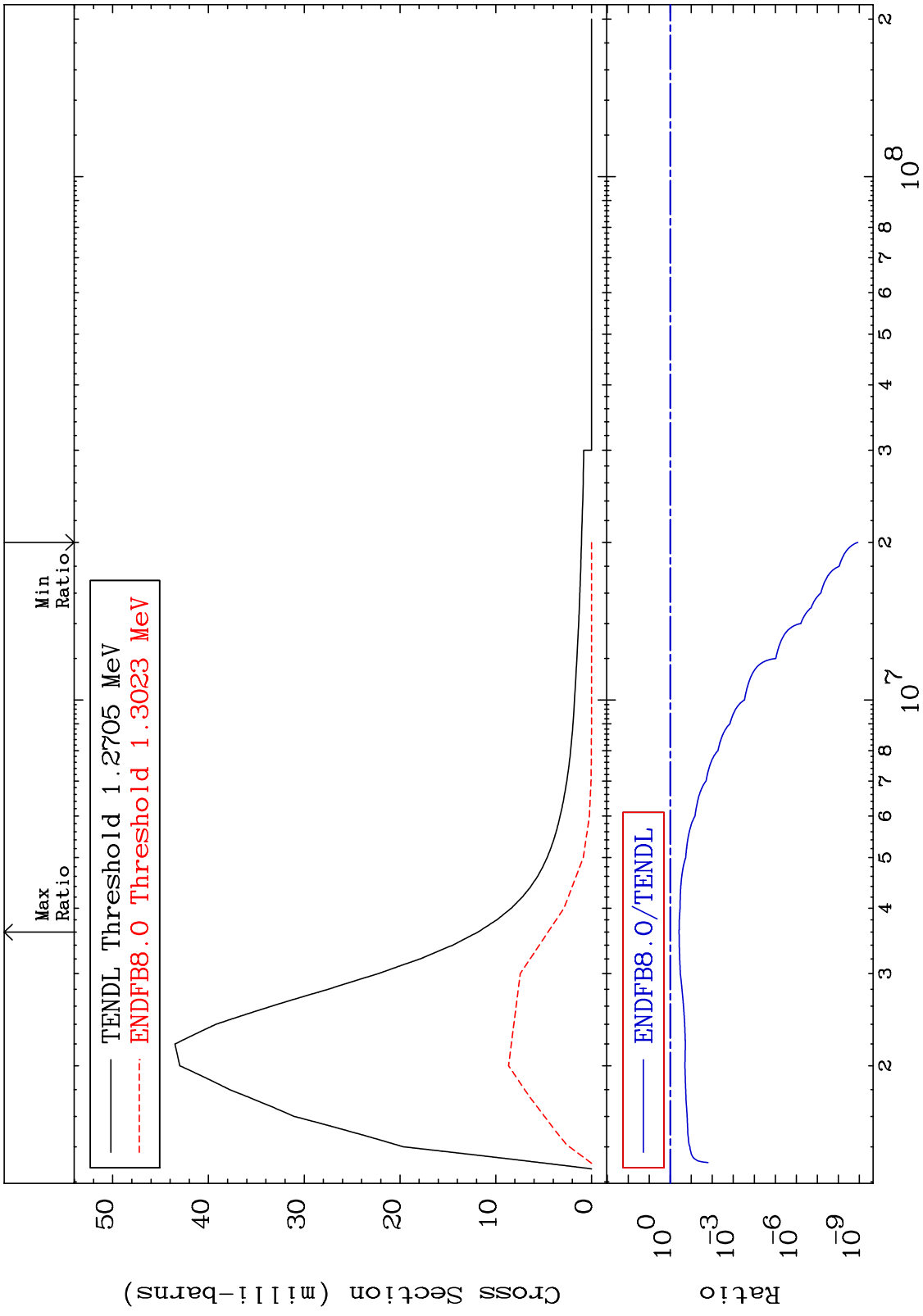
MAT 5331

MT= 65 (n,n') Level
Cross Section

53-I -129
-97.87 To 248.2 %



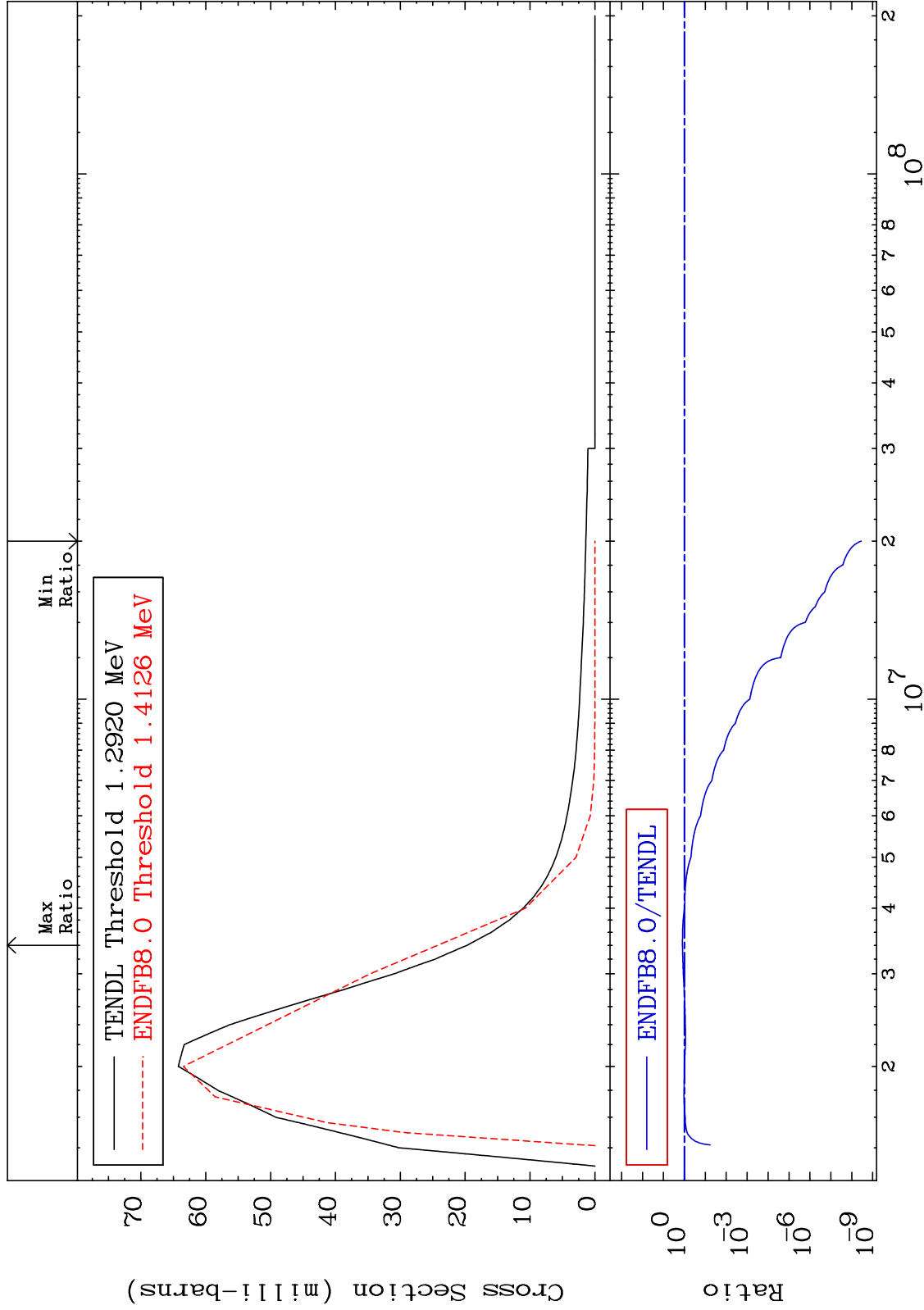
MAT 5331 MT= 66 (n,n') Level Cross Section 53-I -129
 -100.0 To -61.67%



MAT 5331

MT= 67 (n,n') Level
Cross Section

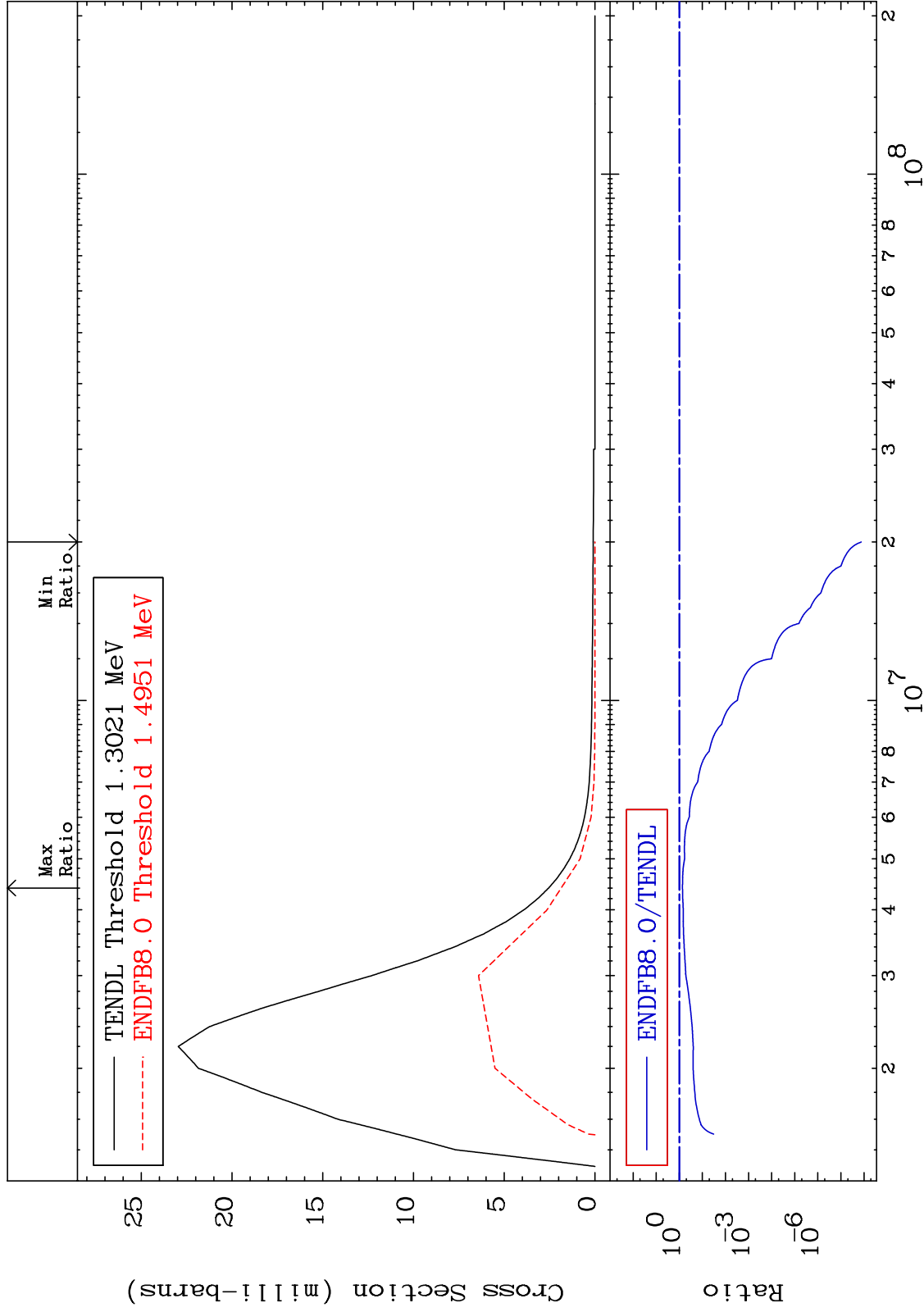
53-I -129
-100.0 To 23.06 %



MAT 5331

MT= 68 (n,n') Level
Cross Section

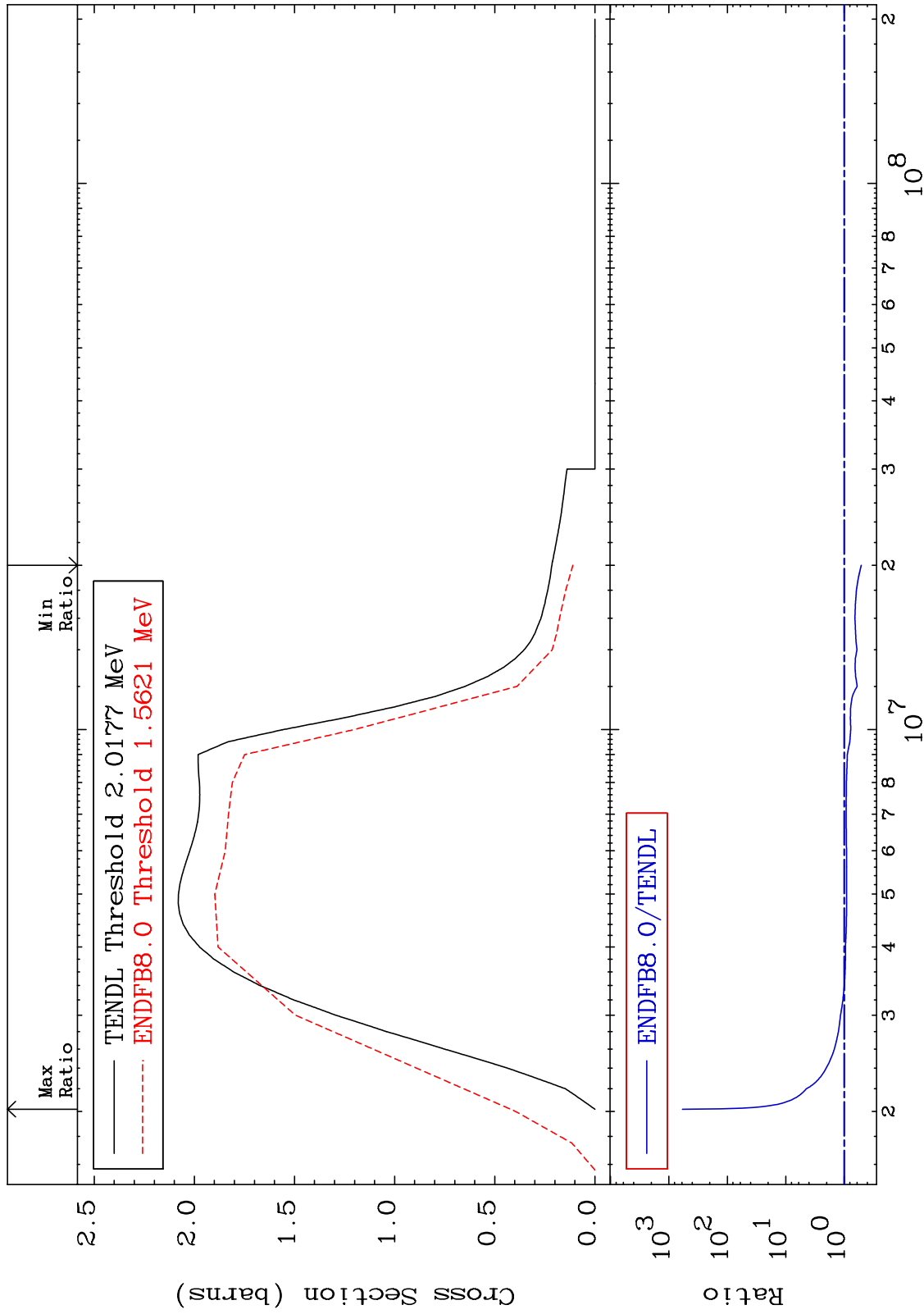
53-I -129
-100.0 To -27.04%



MAT 5331

(n,n') Continuum
Cross Section

53-I -129
-49.00 To 9999. %



MAT 5331

(n, γ)

53-I -129

-99.95 To 648.9 %

Cross Section

Min Ratio

Max Ratio

TENDL

ENDFB8.0

Cross Section (barns)

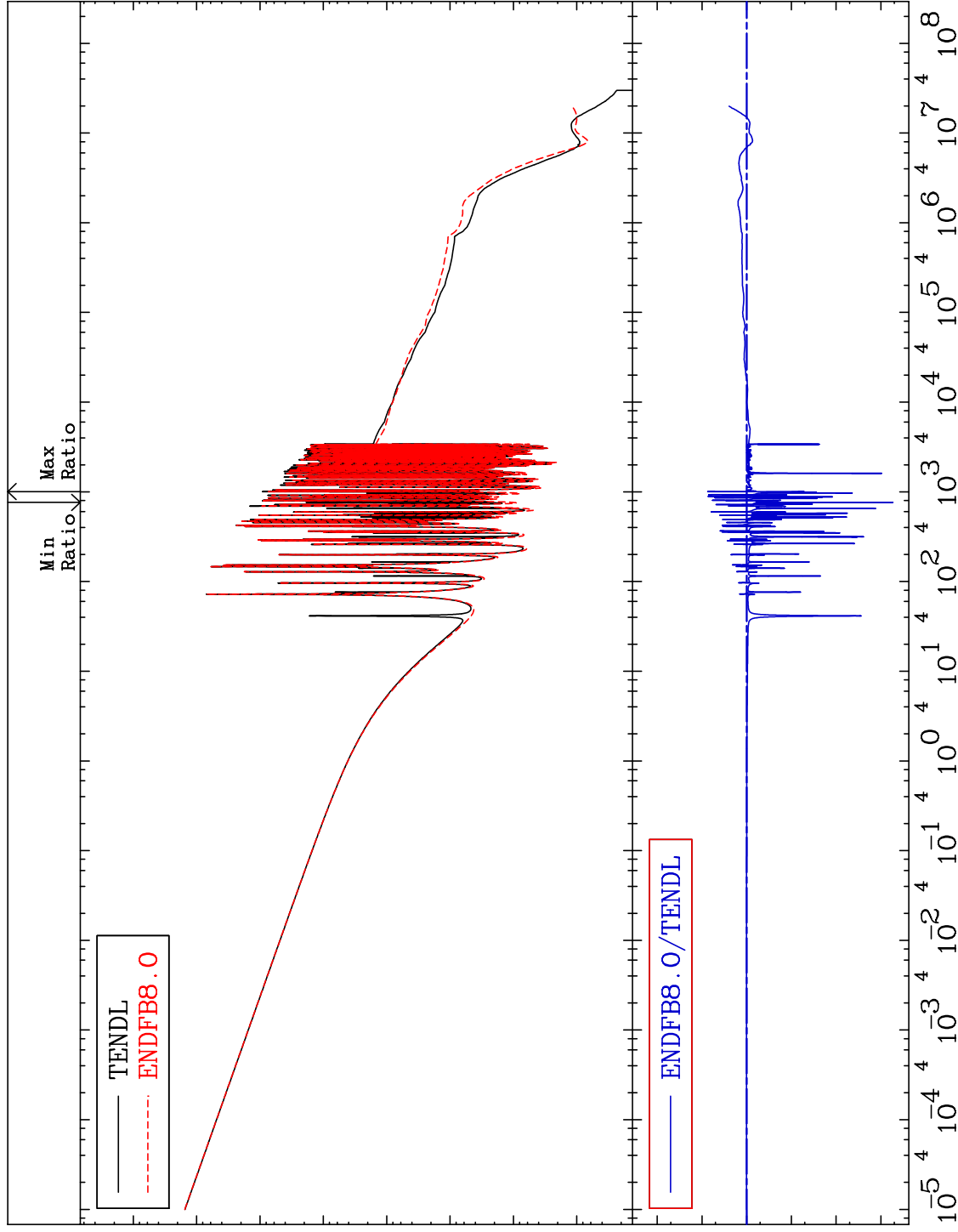
ENDFB8.0/TENDL

Ratio

Incident Energy (eV)

29

53-I -129



MAT 5331

53-I -129

-100.0 To -74.70%

(n,p)
Cross Section

Min
Ratio

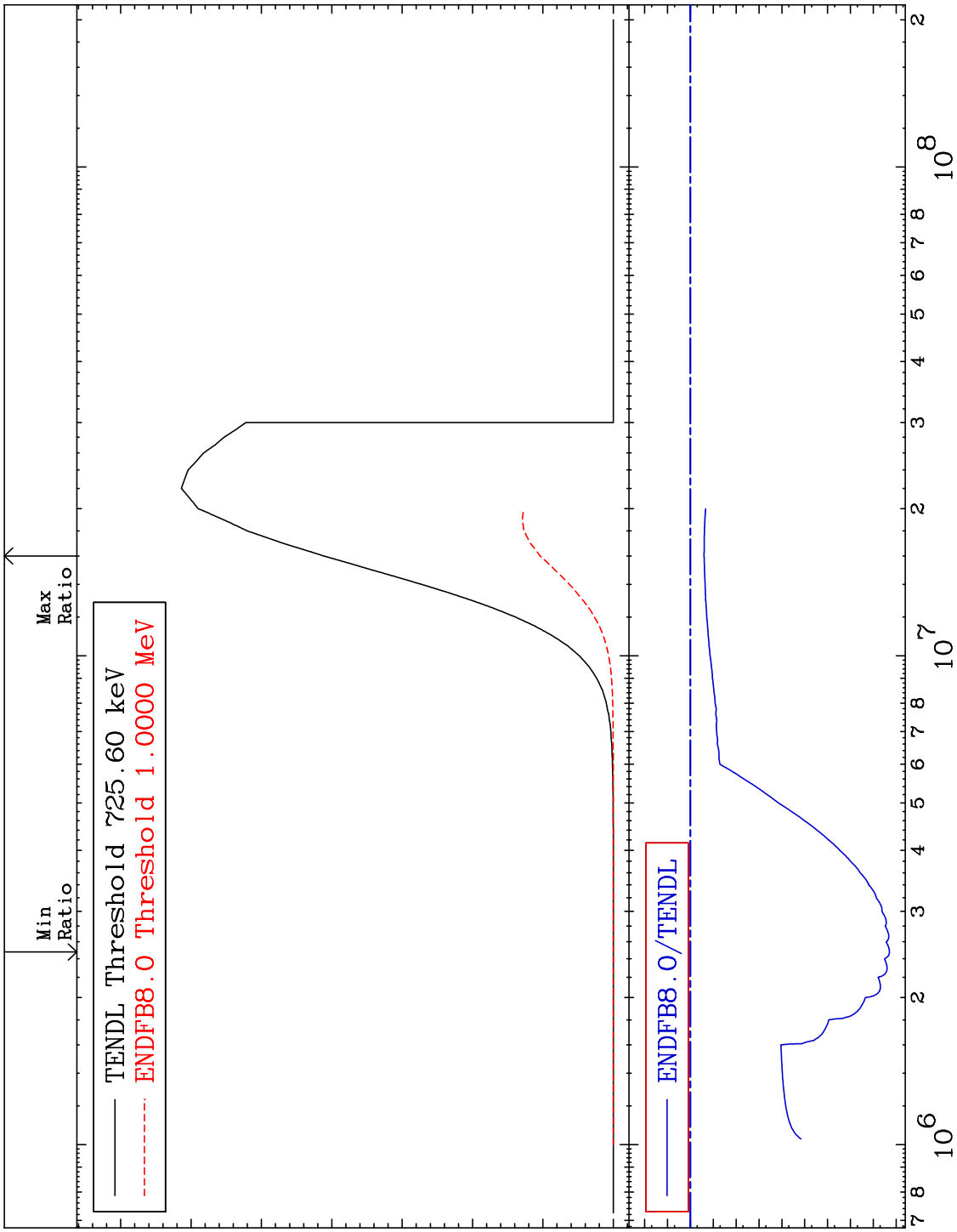
Max
Ratio

— TENDL Threshold 725.60 keV
- - - ENDFB8.0 Threshold 1.0000 MeV

— ENDFB8.0/TENDL

Cross Section (milli-barns)

Ratio



30

Incident Energy (eV)

53-I -129

MAT 5331

(n,d)

53-I -129

-100.0 To 49.44 %

Cross Section

Min Ratio

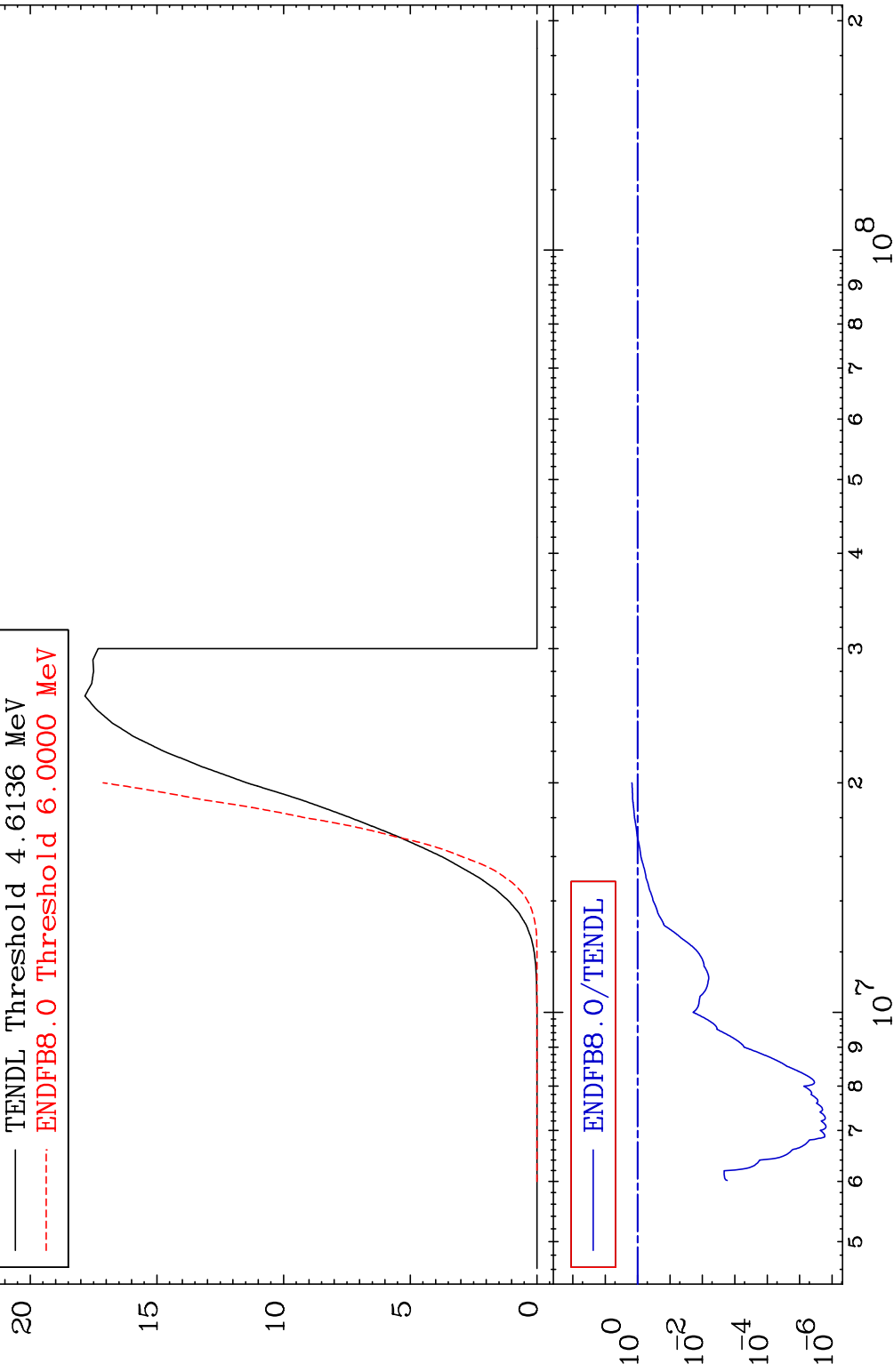
Max Ratio

— TENDL Threshold 4.6136 MeV
- - - ENDFB8.0 Threshold 6.0000 MeV

— ENDFB8.0/TENDL

Cross Section (milli-barns)

Ratio



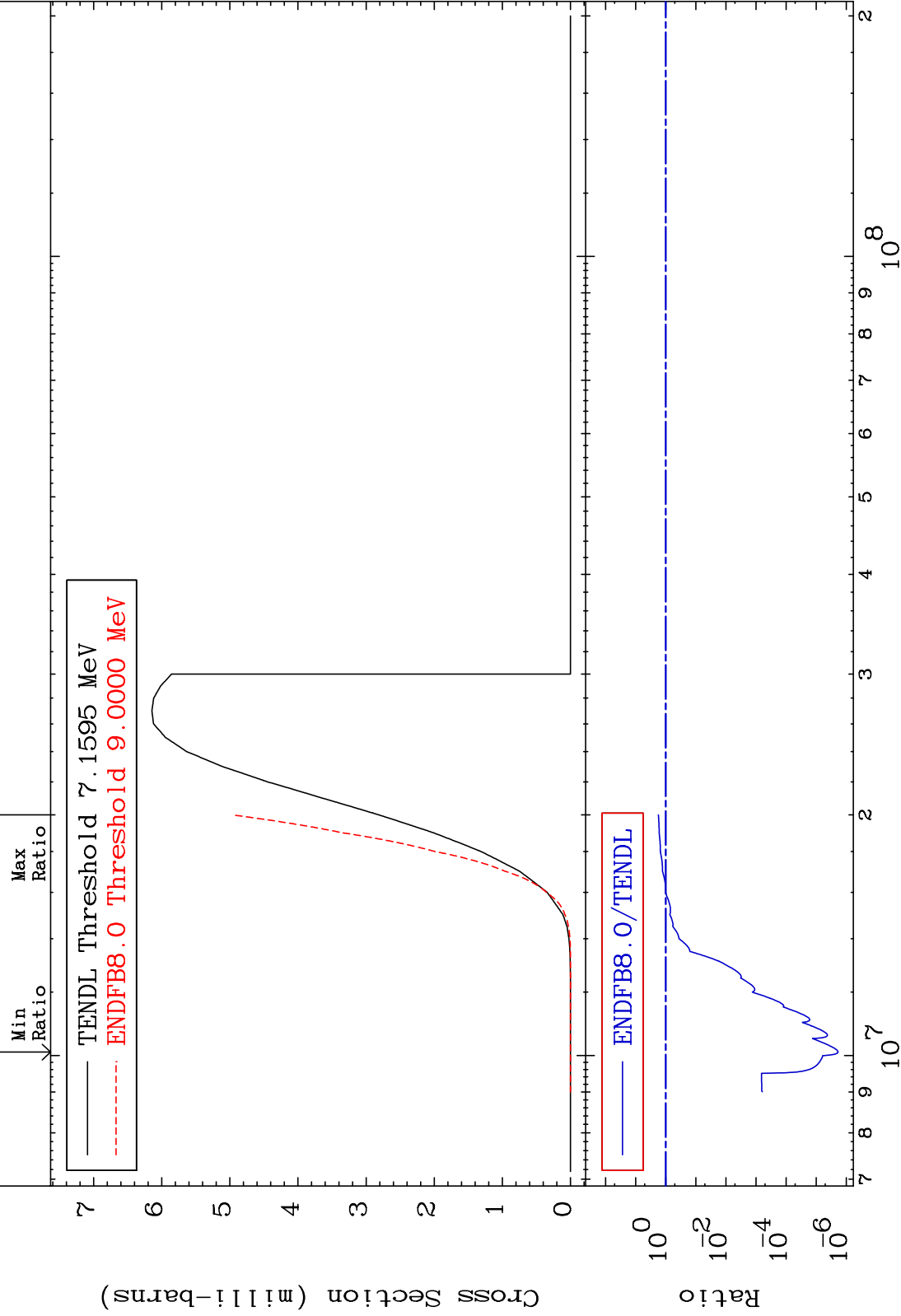
MAT 5331

(n,t)

53-I -129

-100.0 To 76.45 %

Cross Section



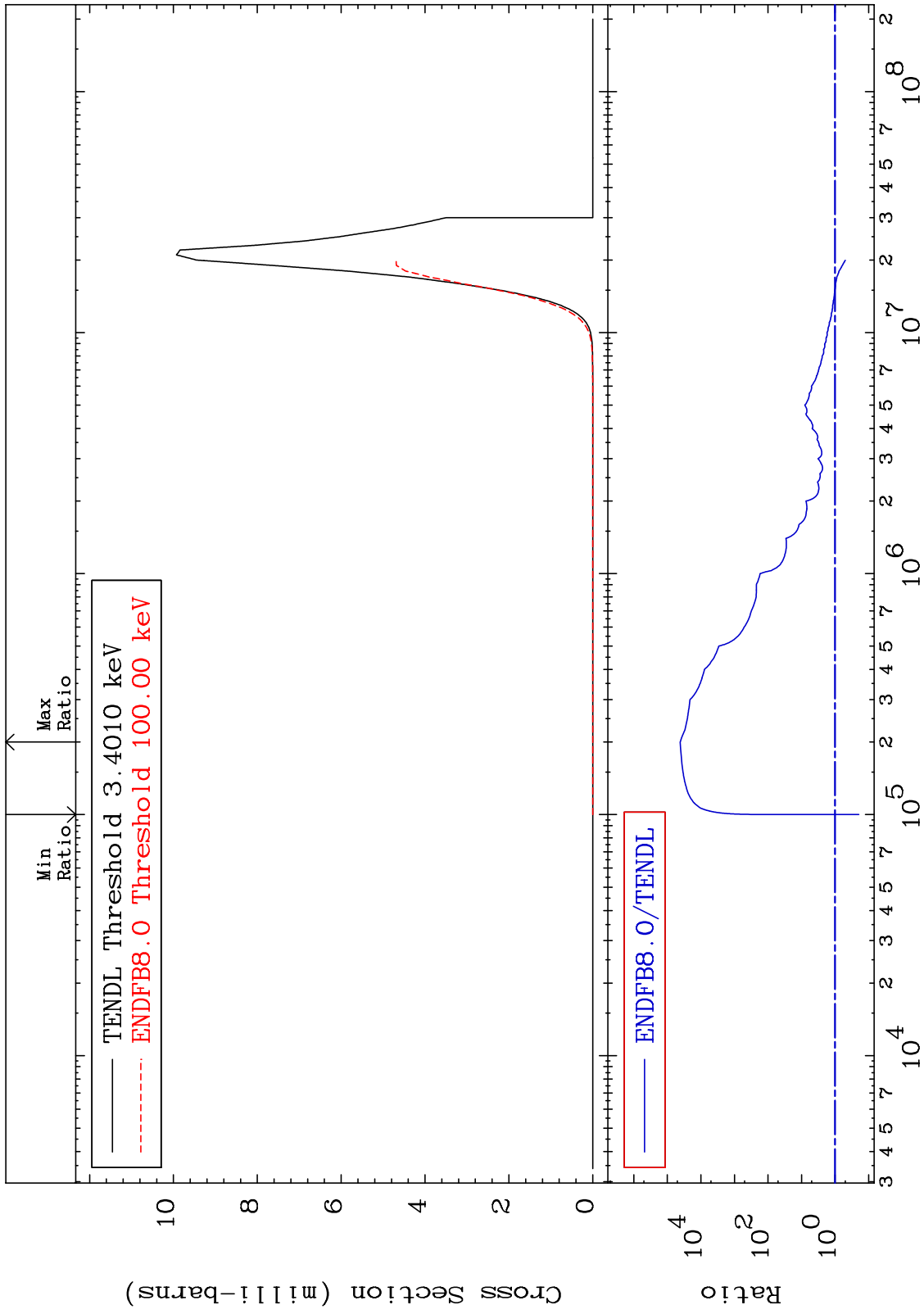
MAT 5331

(n, α)

53-I -129

Cross Section

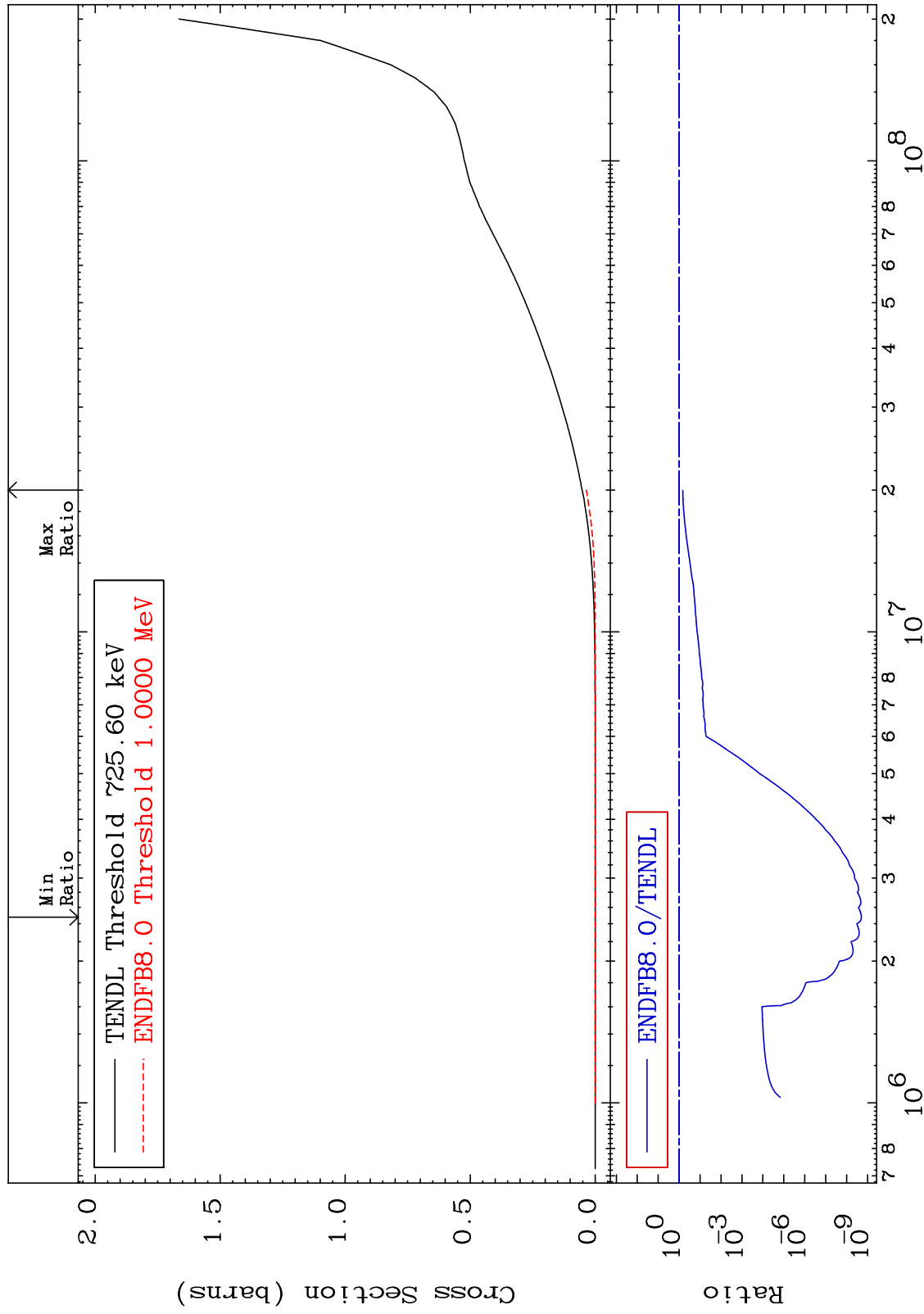
-80.40 To 9999. %



MAT 5331

Hydrogen Production
Cross Section

53-I -129
-100.0 To -32.39%



34

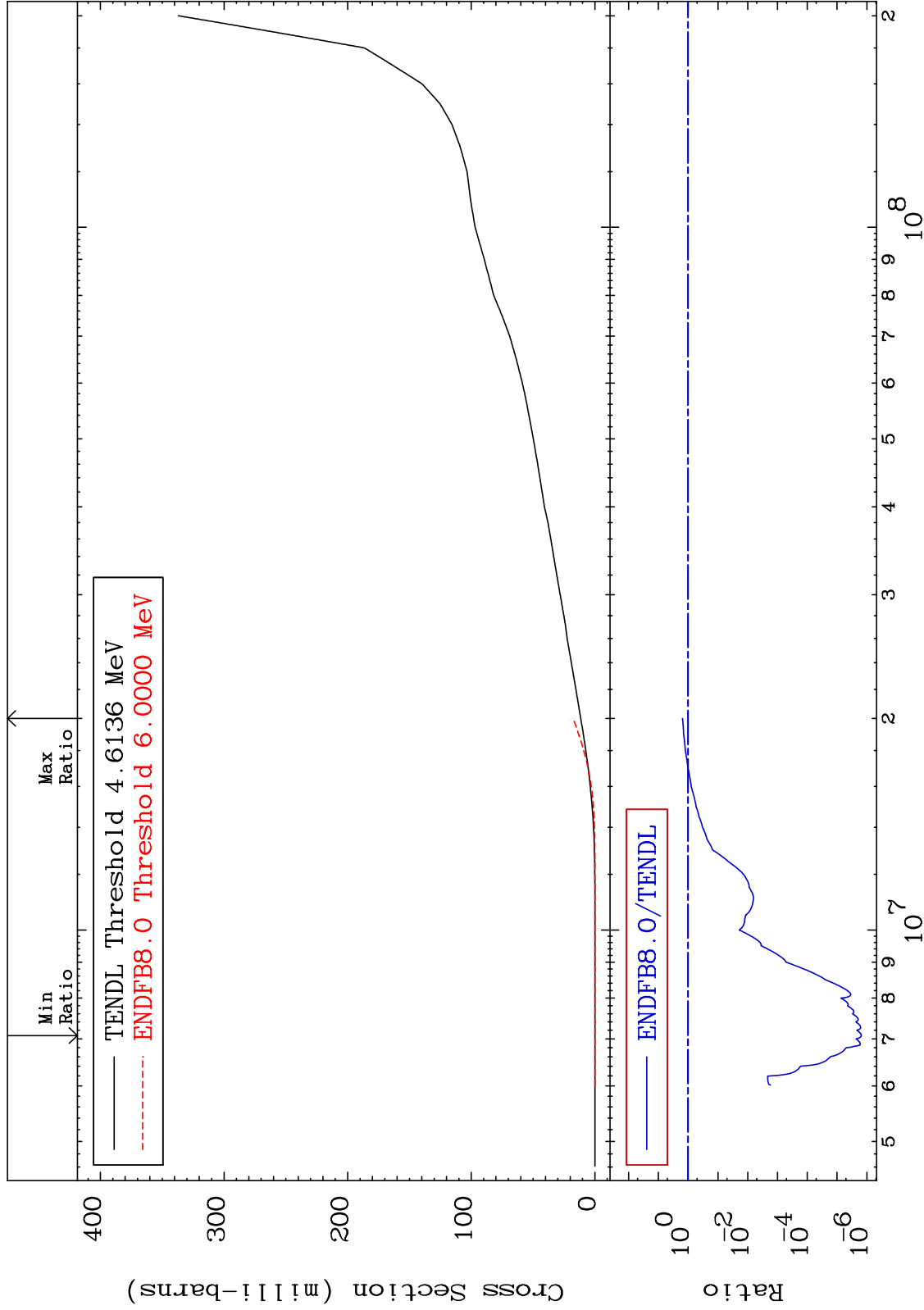
Incident Energy (eV)

53-I -129

MAT 5331

Deuterium Production
Cross Section

53-I -129
-100.0 To 55.47 %



35

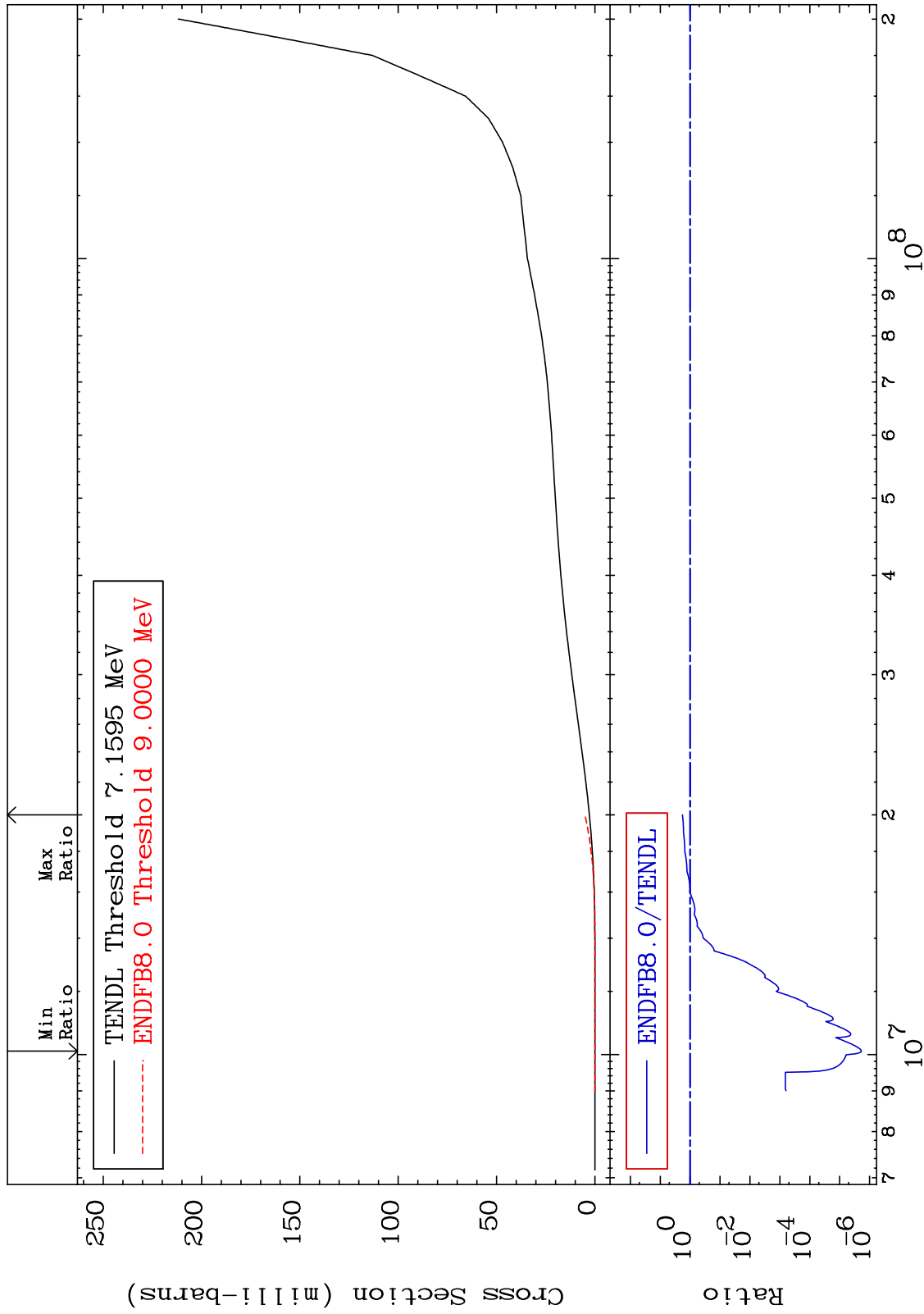
Incident Energy (eV)

53-I -129

MAT 5331

Tritium Production Cross Section

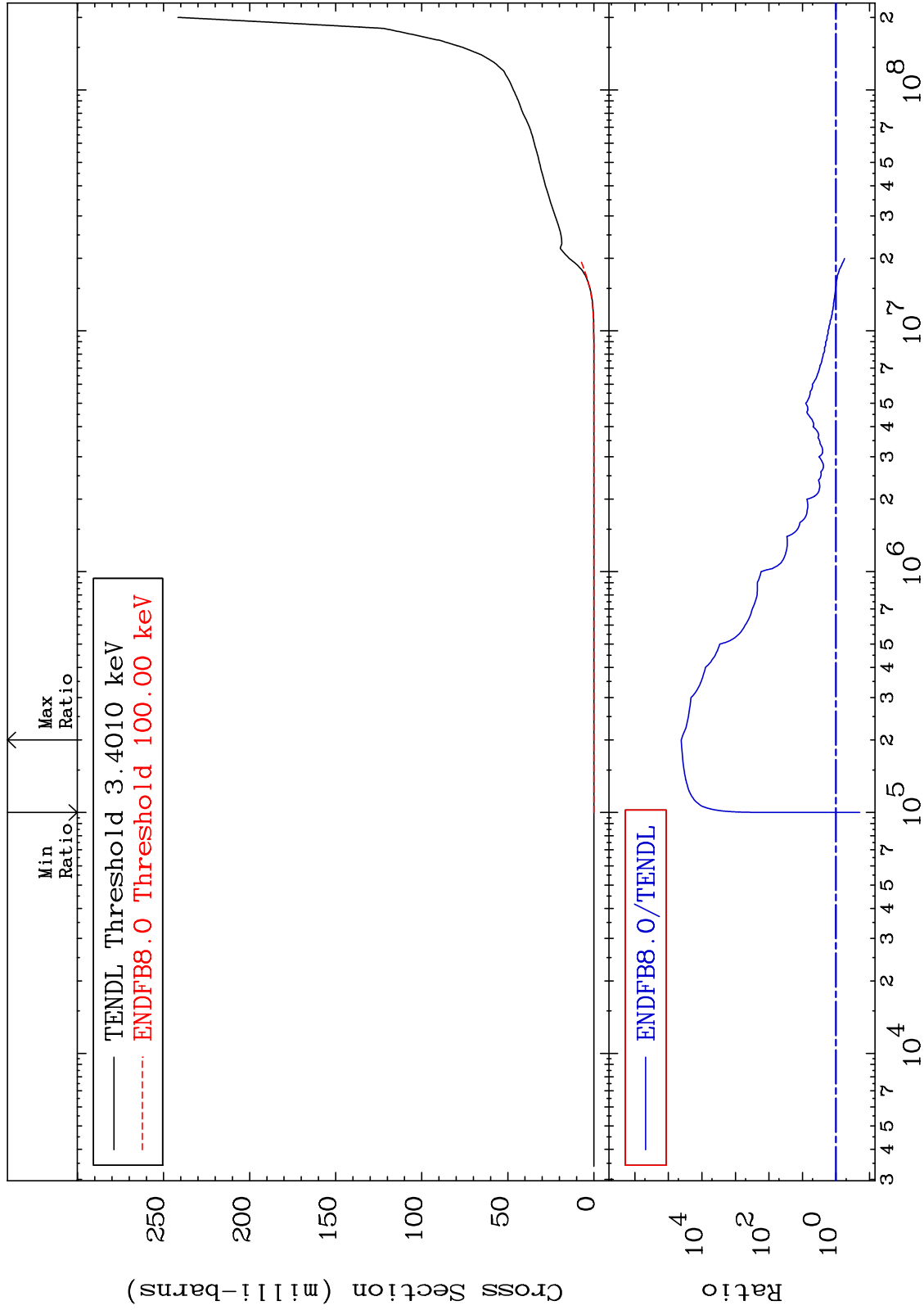
53-I -129
-100.0 To 80.78 %



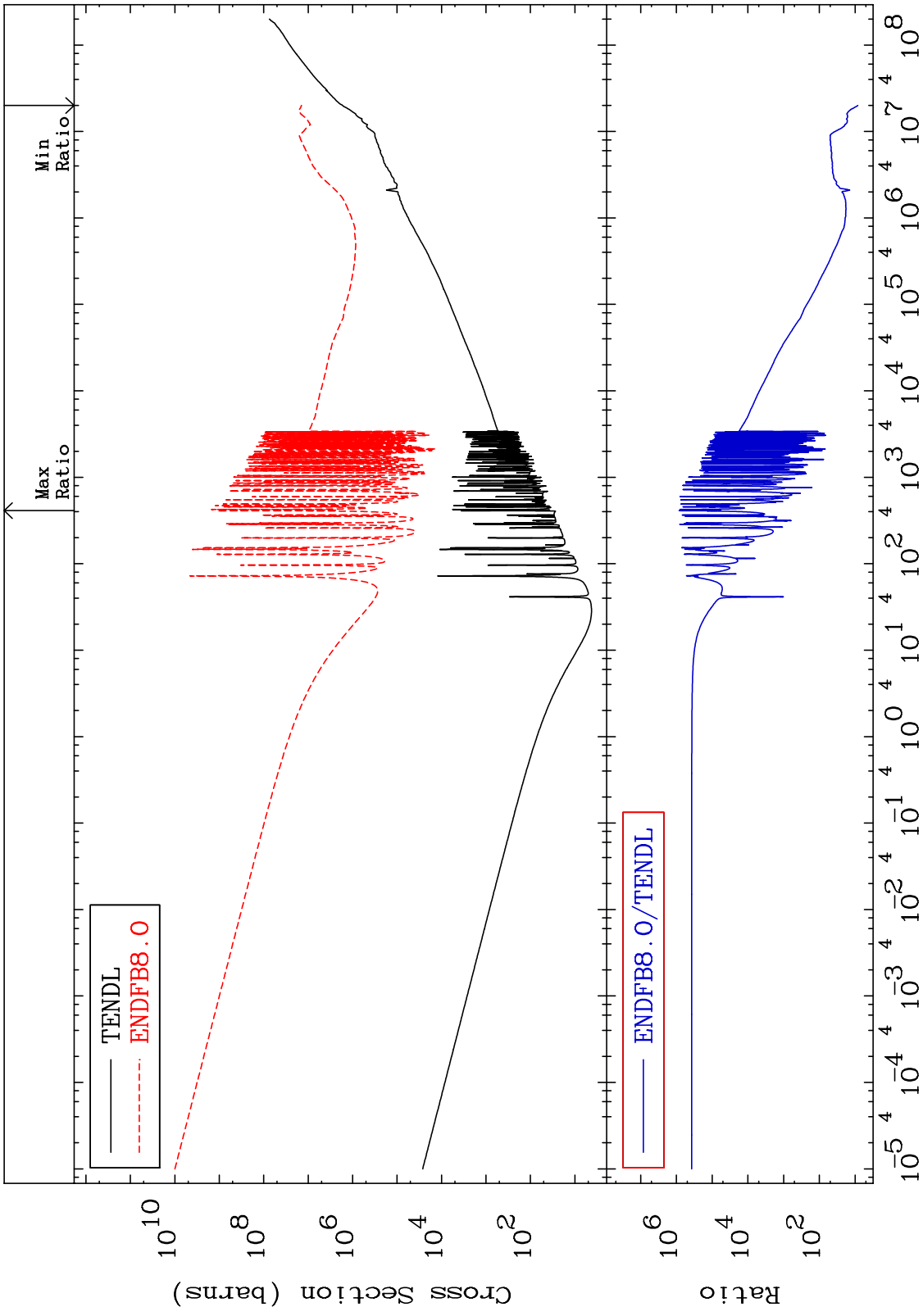
MAT 5331

He-4 Production
Cross Section

53-I -129
-80.40 To 9999. %



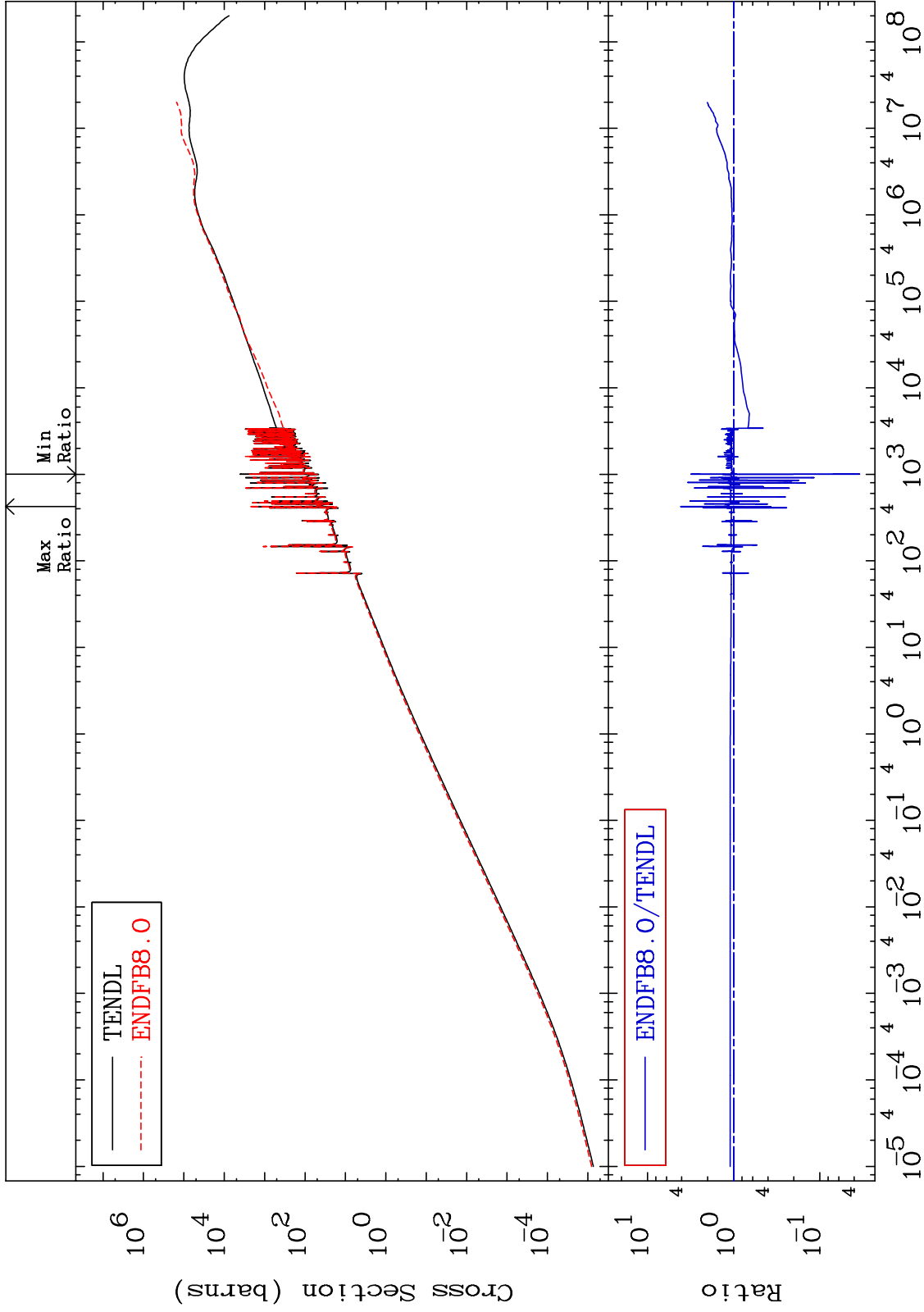
MAT 5331 Kerma total (eV-barns) 53-I -129
 Cross Section 740.1 To 9999. %



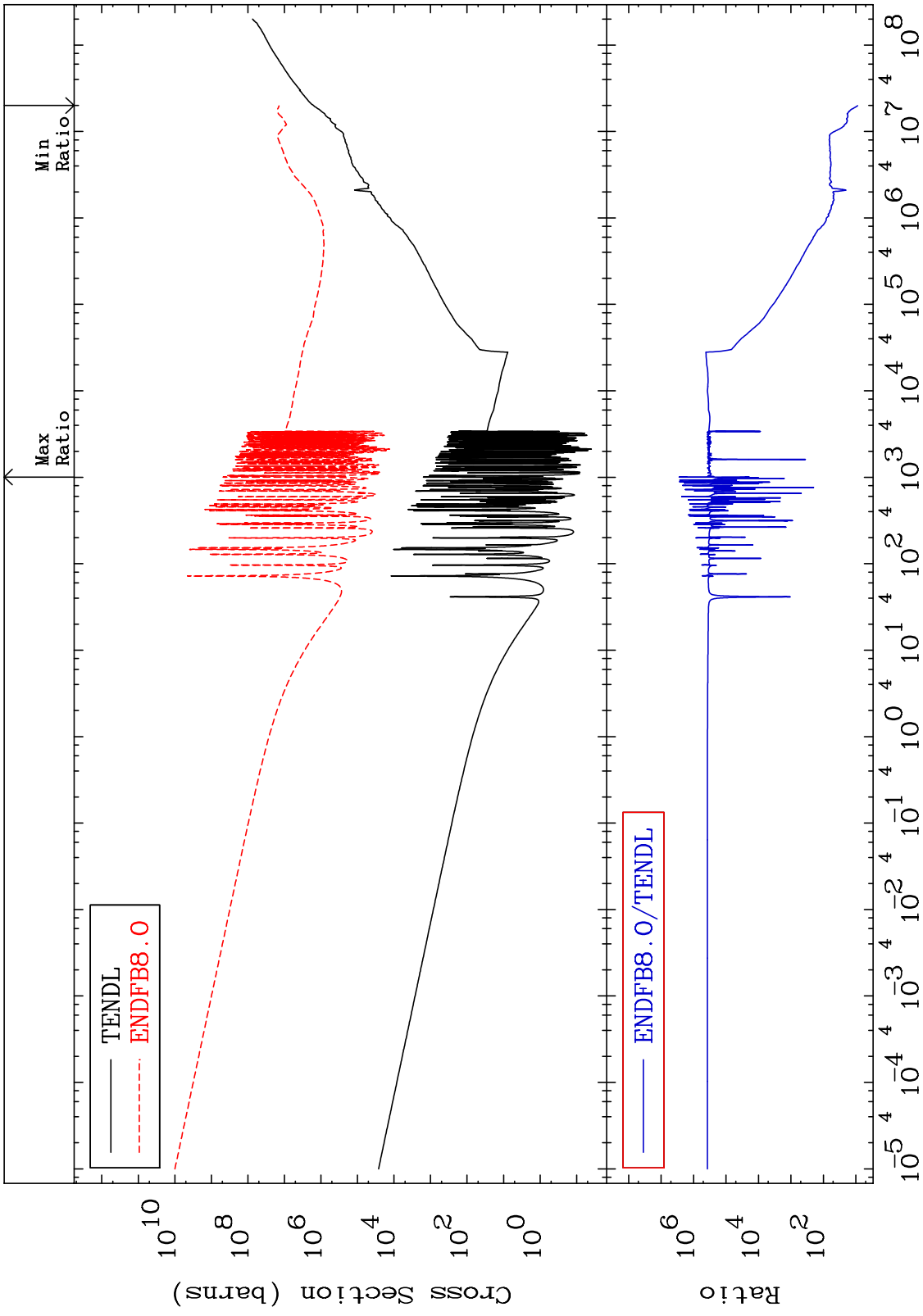
MAT 5331

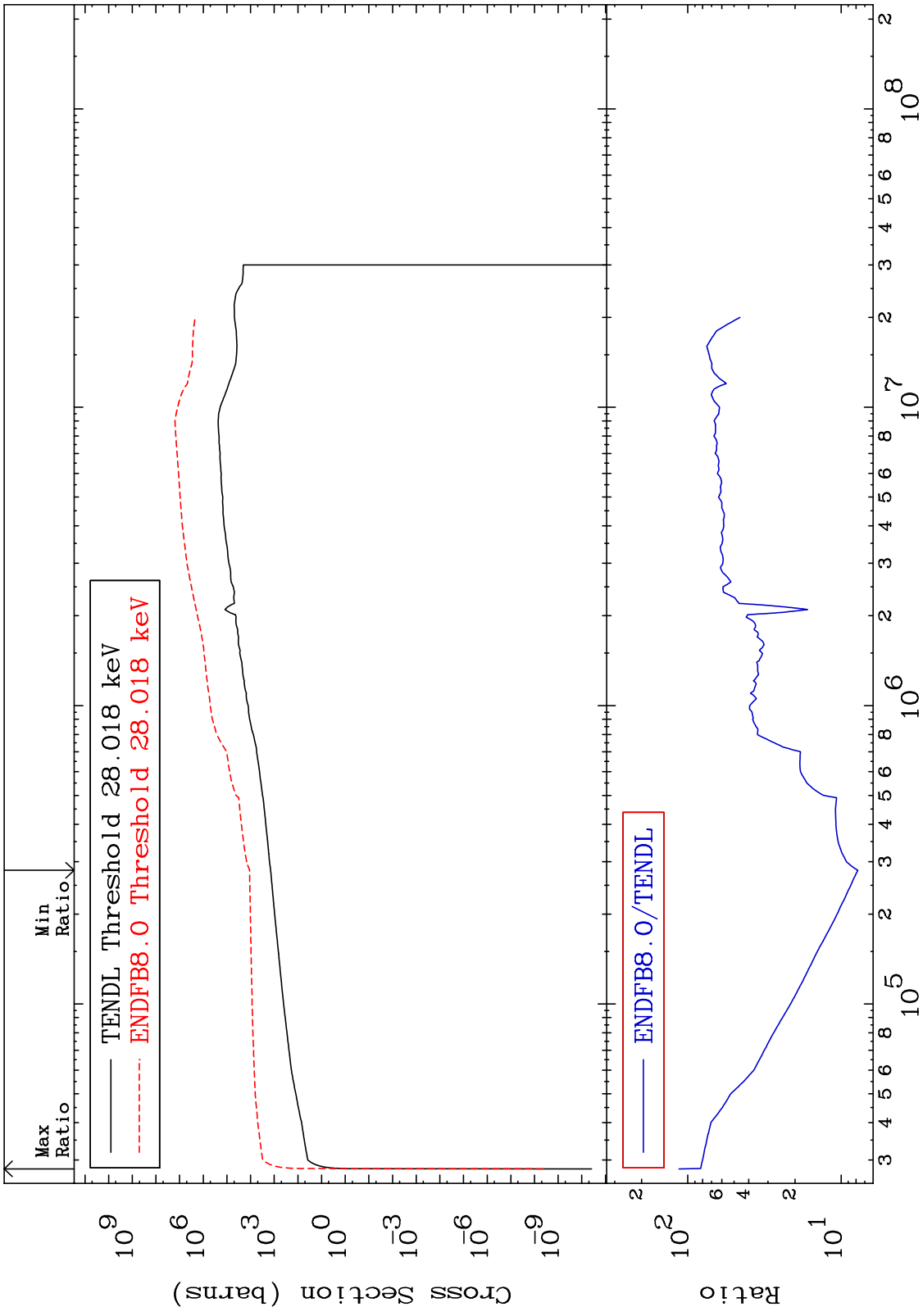
Kerma elastic
Cross Section

53-I -129
-96.55 To 309.8 %



MAT 5331 Kerma non-elastic (all but mt2) Cross Section 53-I -129 769.8 To 9999. %

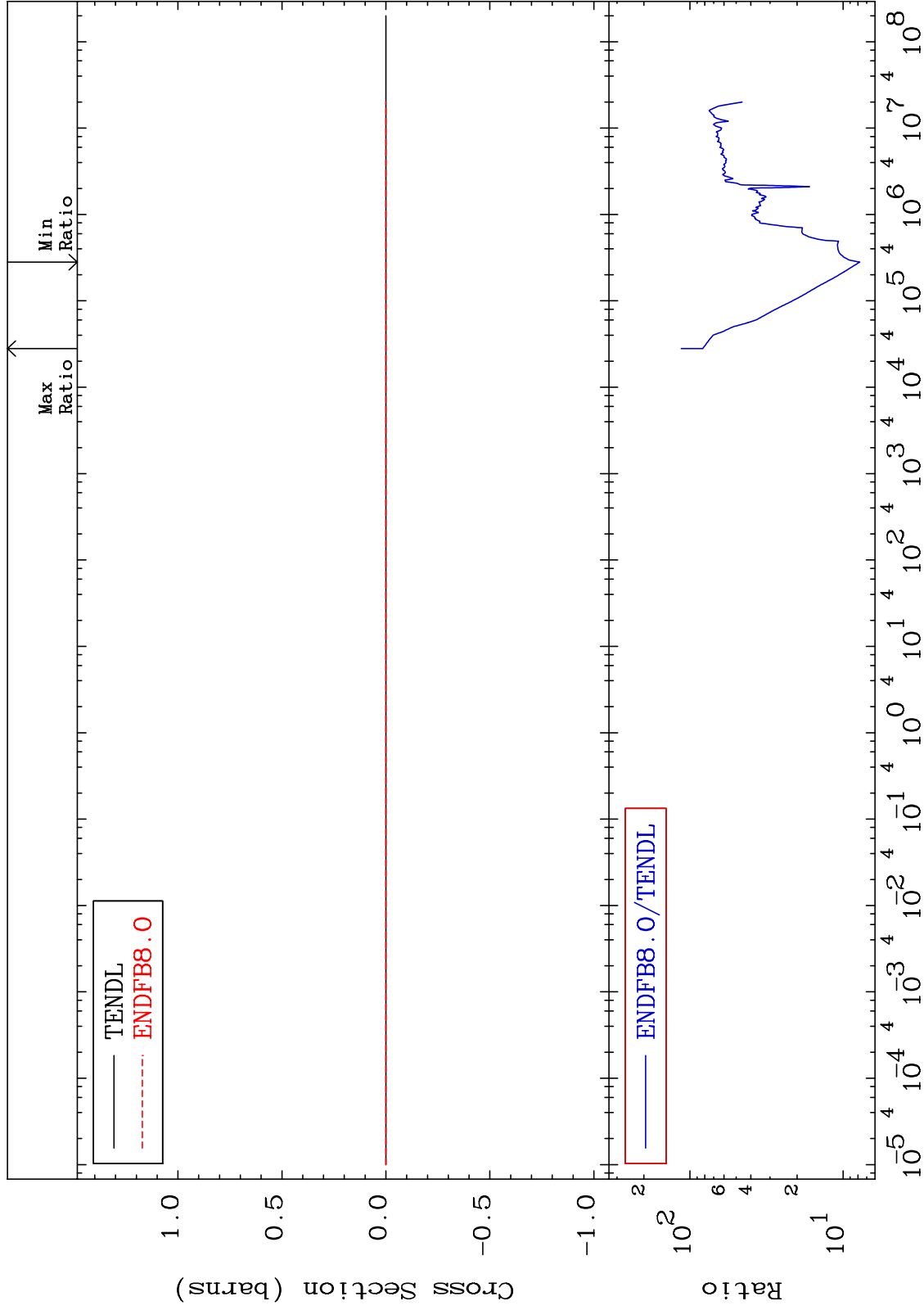




MAT 5331

Kerma fission (mt18 or mt19-20-21-38)
Cross Section

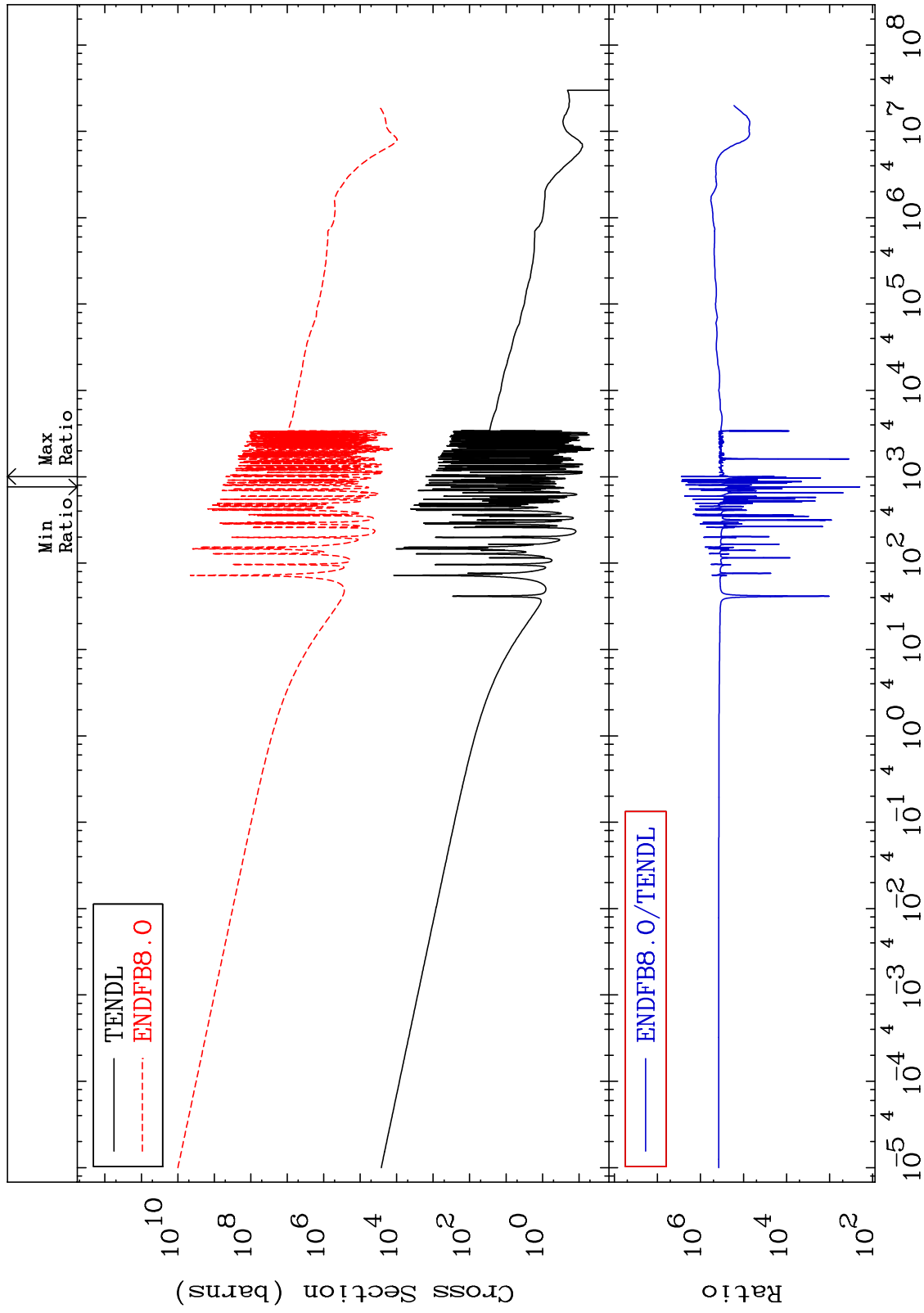
53-I -129
677.8 To 9999. %



MAT 5331

Kerma capture (mt102)
Cross Section

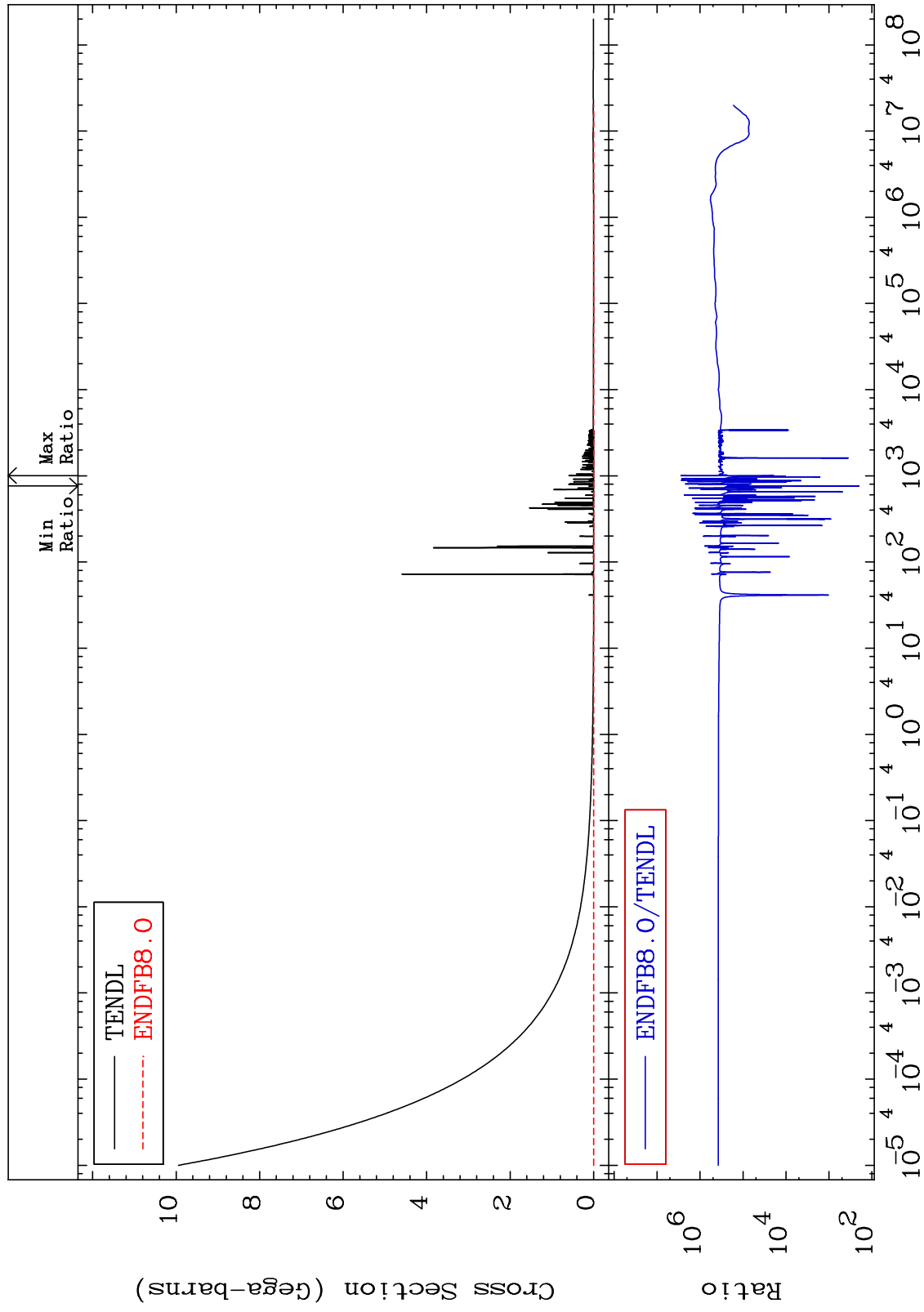
53-I -129
9999. To 9999. %



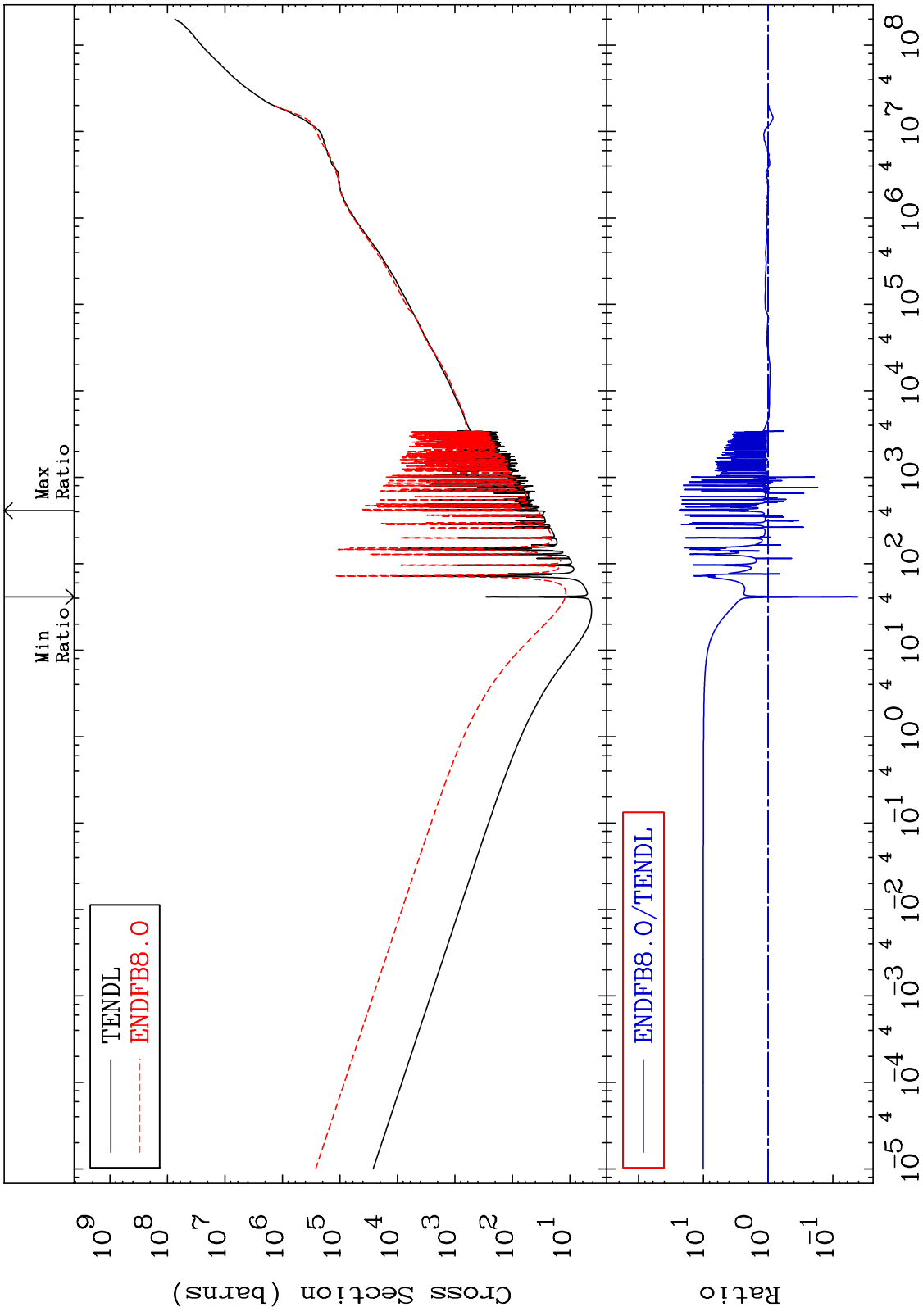
MAT 5331

Total photon (eV-barns)
Cross Section

53-I -129
9999. To 9999. %

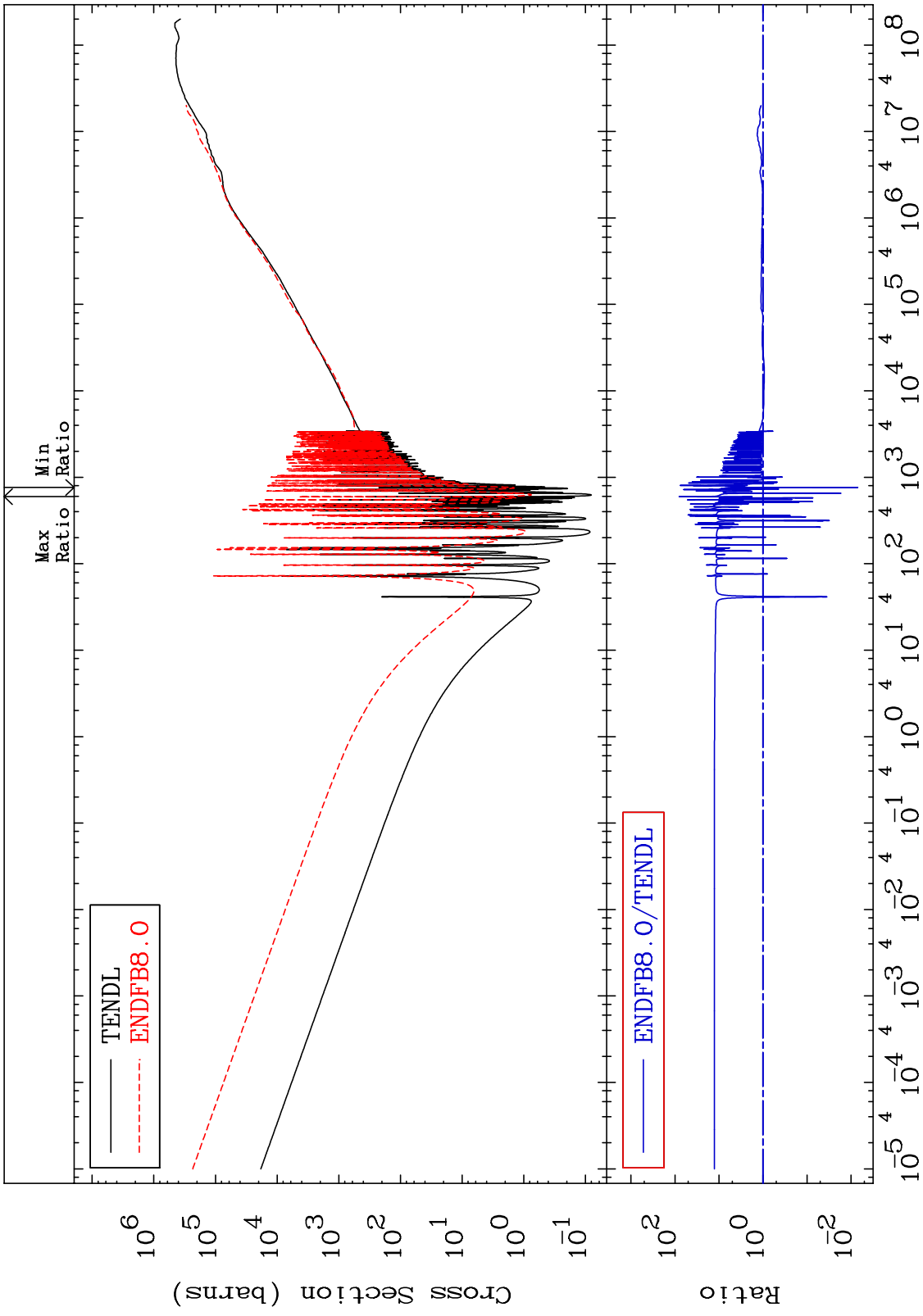


MAT 5331 Total kinematic kerma (high limit) 53-I -129
 -95.88 To 2273. %
 Cross Section



45 Incident Energy (eV) 53-I -129

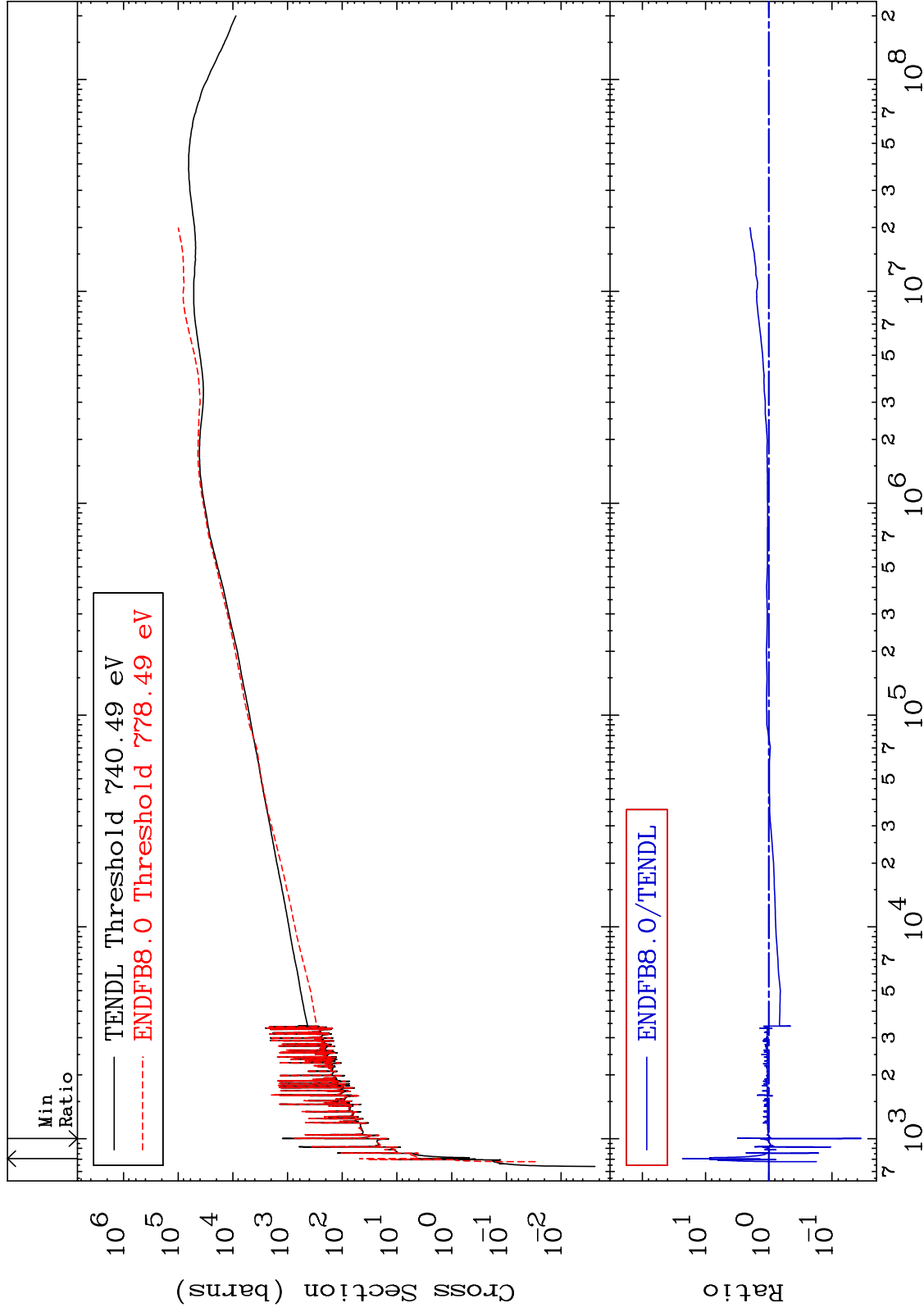
MAT 5331 Dpa total (eV-barns) 53-I -129
 Cross Section -99.30 To 7976. %



MAT 5331

Dpa elastic (mt2)
Cross Section

53-I -129
-96.55 To 2224. %



47

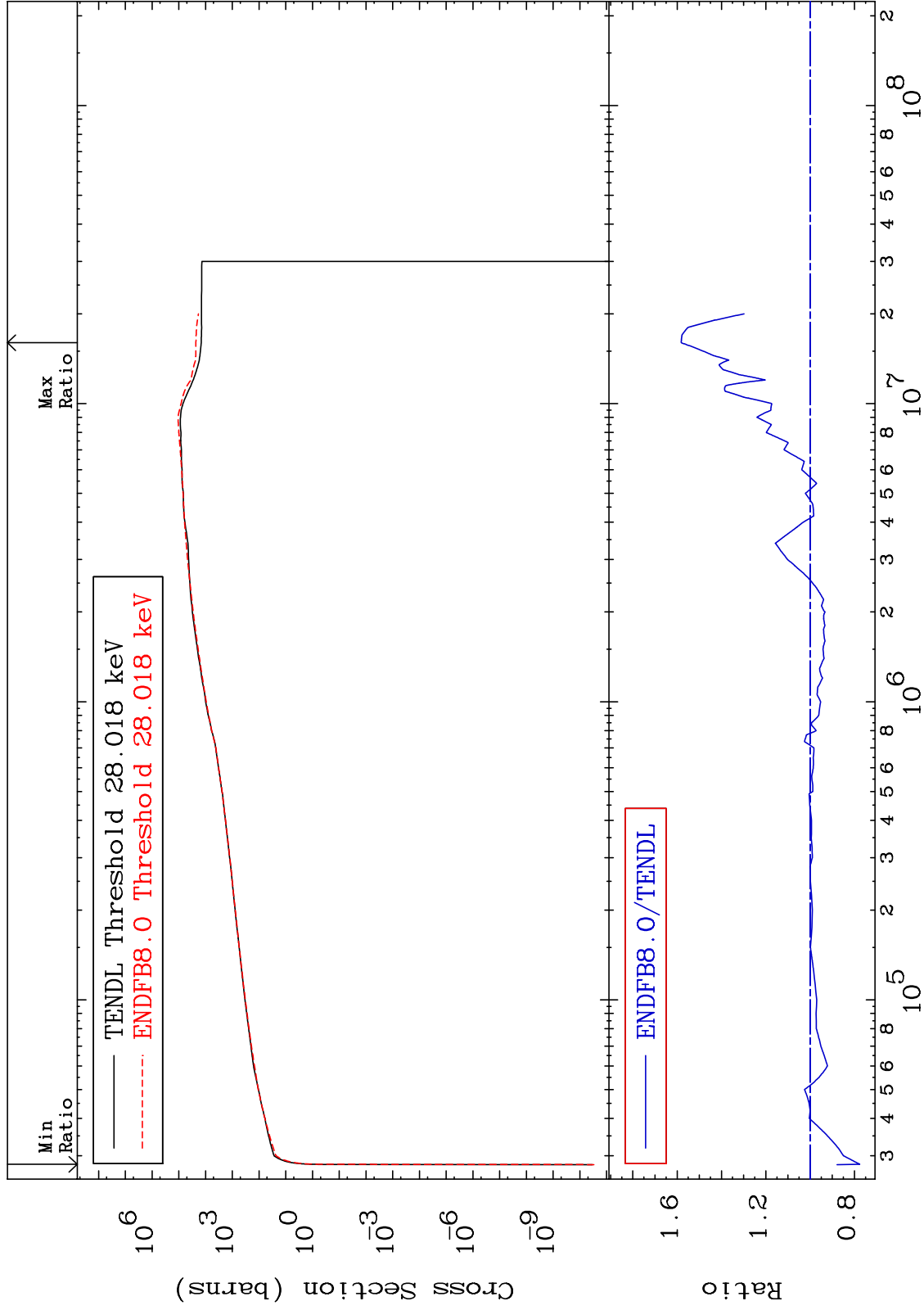
Incident Energy (eV)

53-I -129

MAT 5331

Dpa inelastic (mt51-91)
Cross Section

53-I -129
-22.38 To 58.15 %



48

Incident Energy (eV)

53-I -129

MAT 5331 Dpa disappearance (mt102 -120) 53-I -129
 Cross Section -99.30 To 9999. %

