

Program Complot
(Version 2018-1)

by

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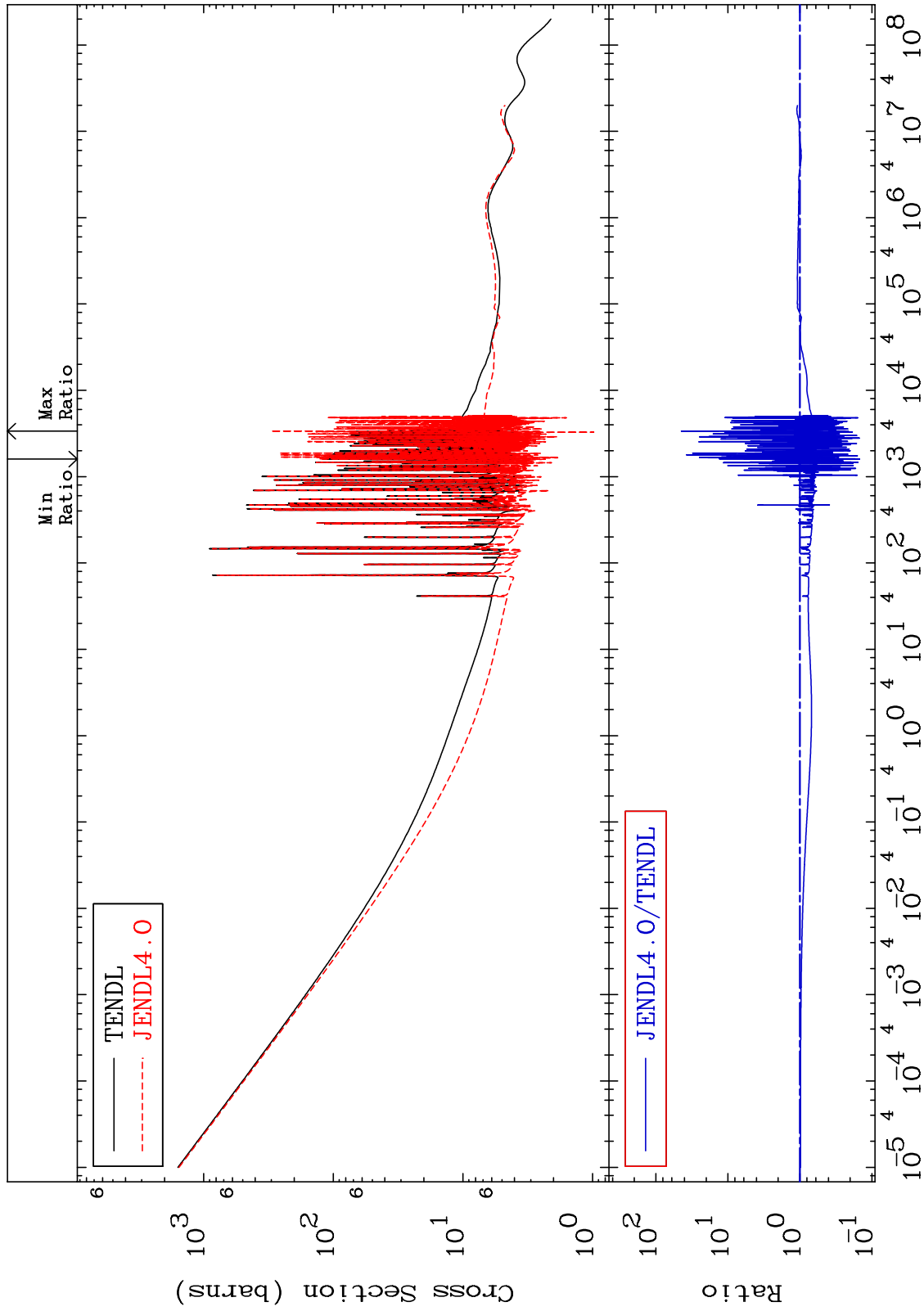
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5331

Total
Cross Section

53-I -129
-85.28 To 4344. %



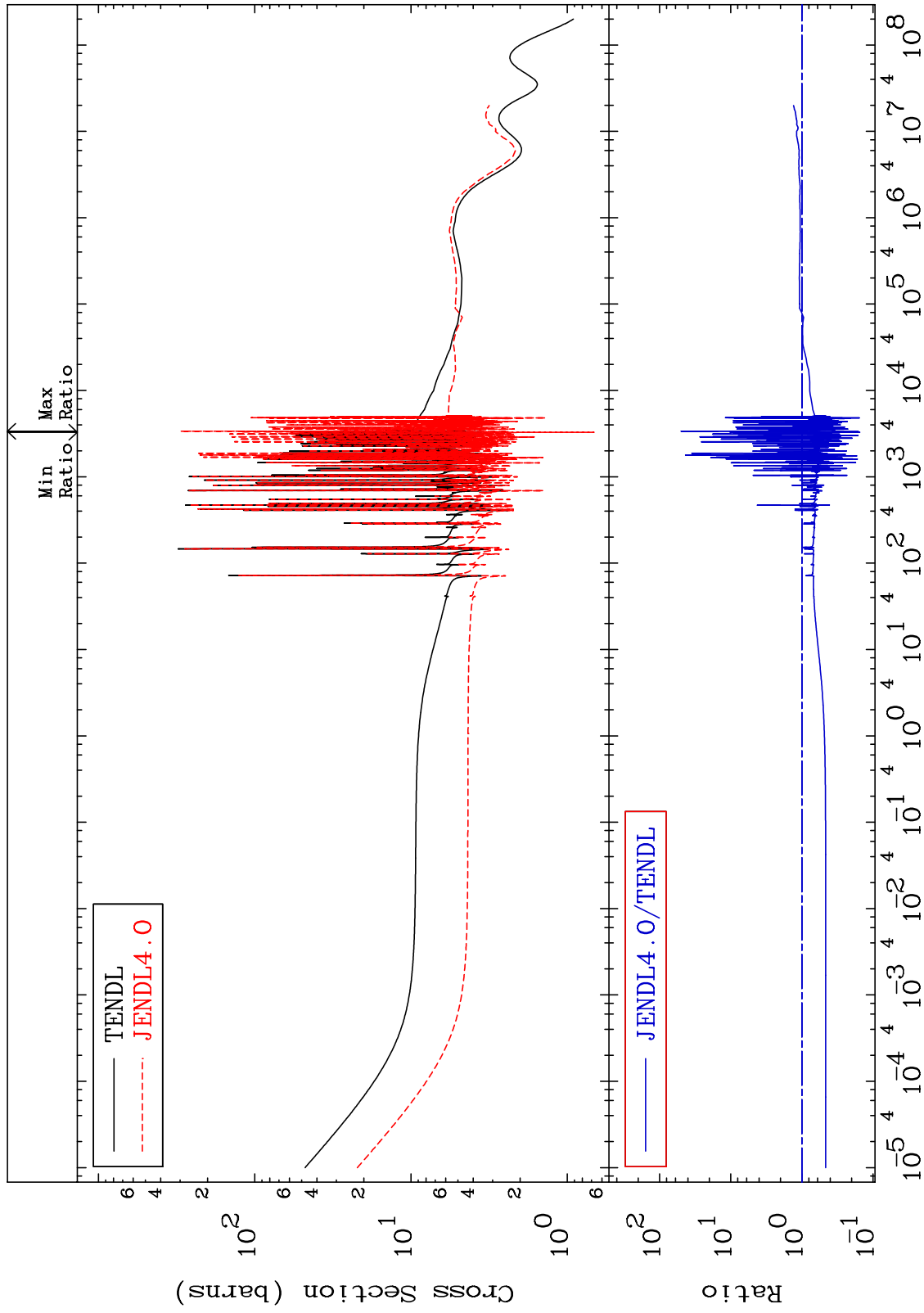
Incident Energy (eV)

53-I -129

MAT 5331

Elastic
Cross Section

53-I -129
-84.63 To 4870. %

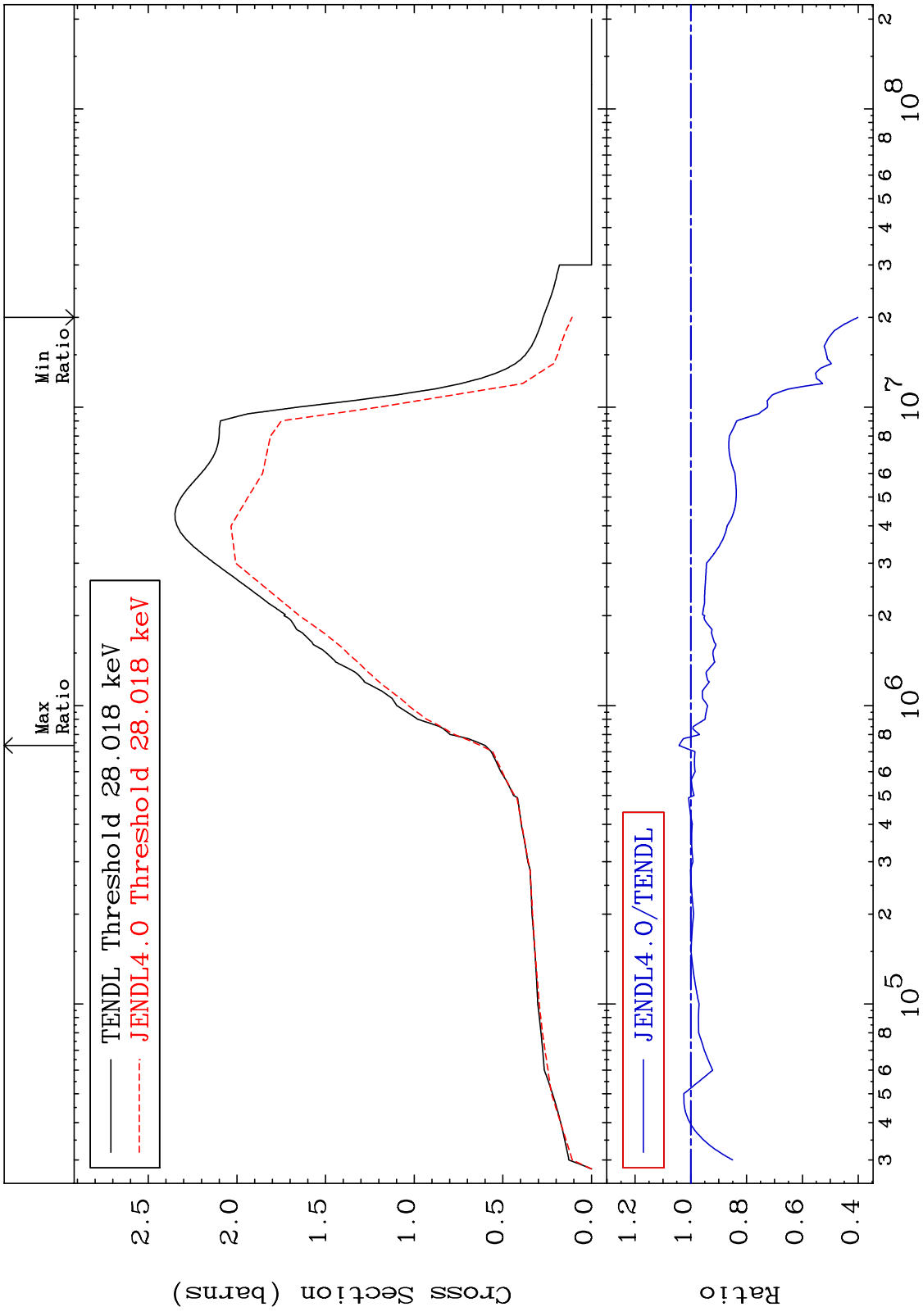


2

Incident Energy (eV)

53-I -129

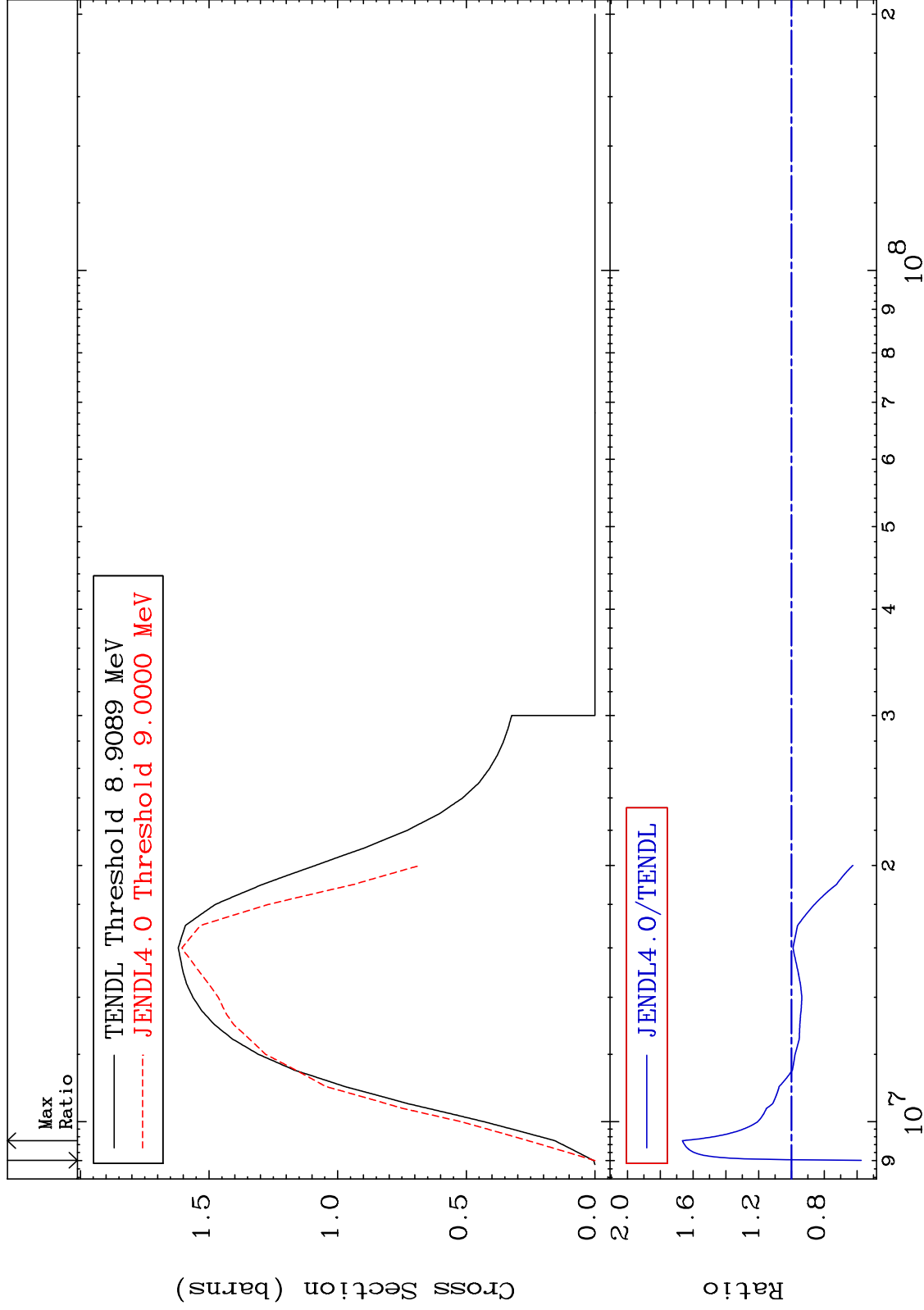
MAT 5331 Inelastic Cross Section 53-I -129
 -59.87 To 4.230 %



MAT 5331

(n,2n)
Cross Section

53-I -129
-42.55 To 66.54 %



4

Incident Energy (eV)

53-I -129

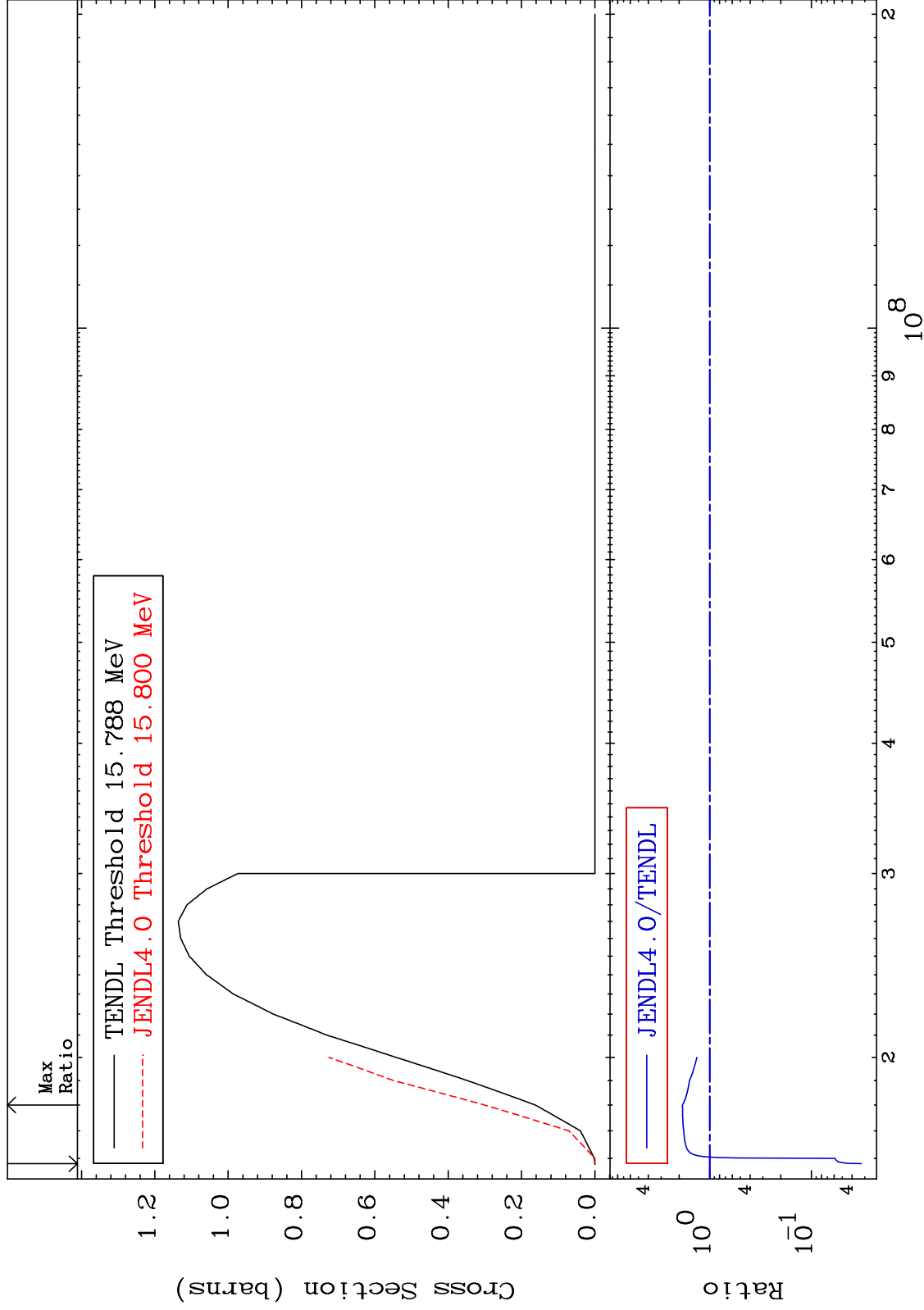
MAT 5331

(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

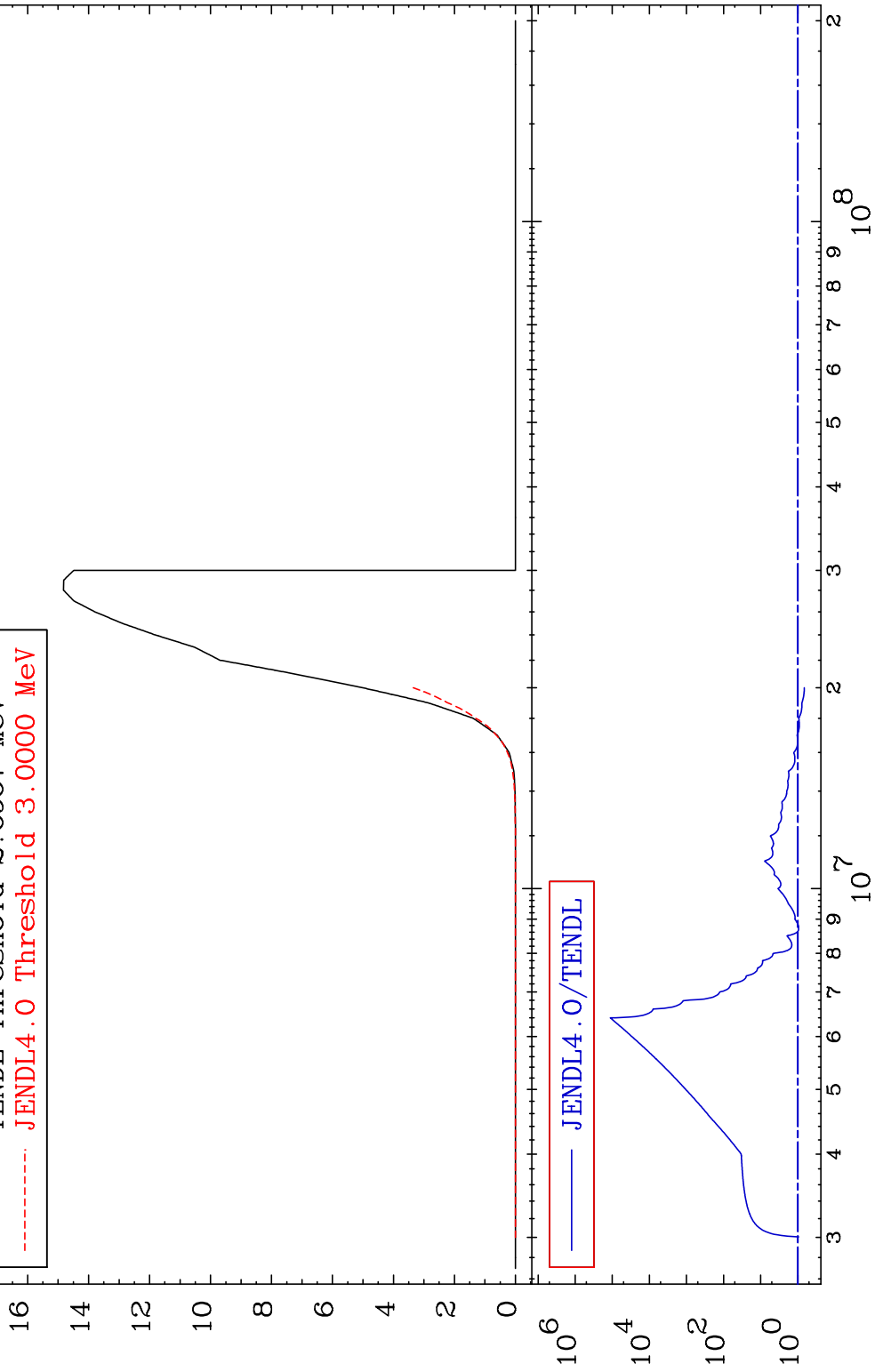
Min Ratio

— TENDL Threshold 2.6967 MeV
- - - JENDL4.0 Threshold 3.0000 MeV

— JENDL4.0/TENDL

Cross Section (milli-barns)

Ratio



6

Incident Energy (eV)

53-I -129

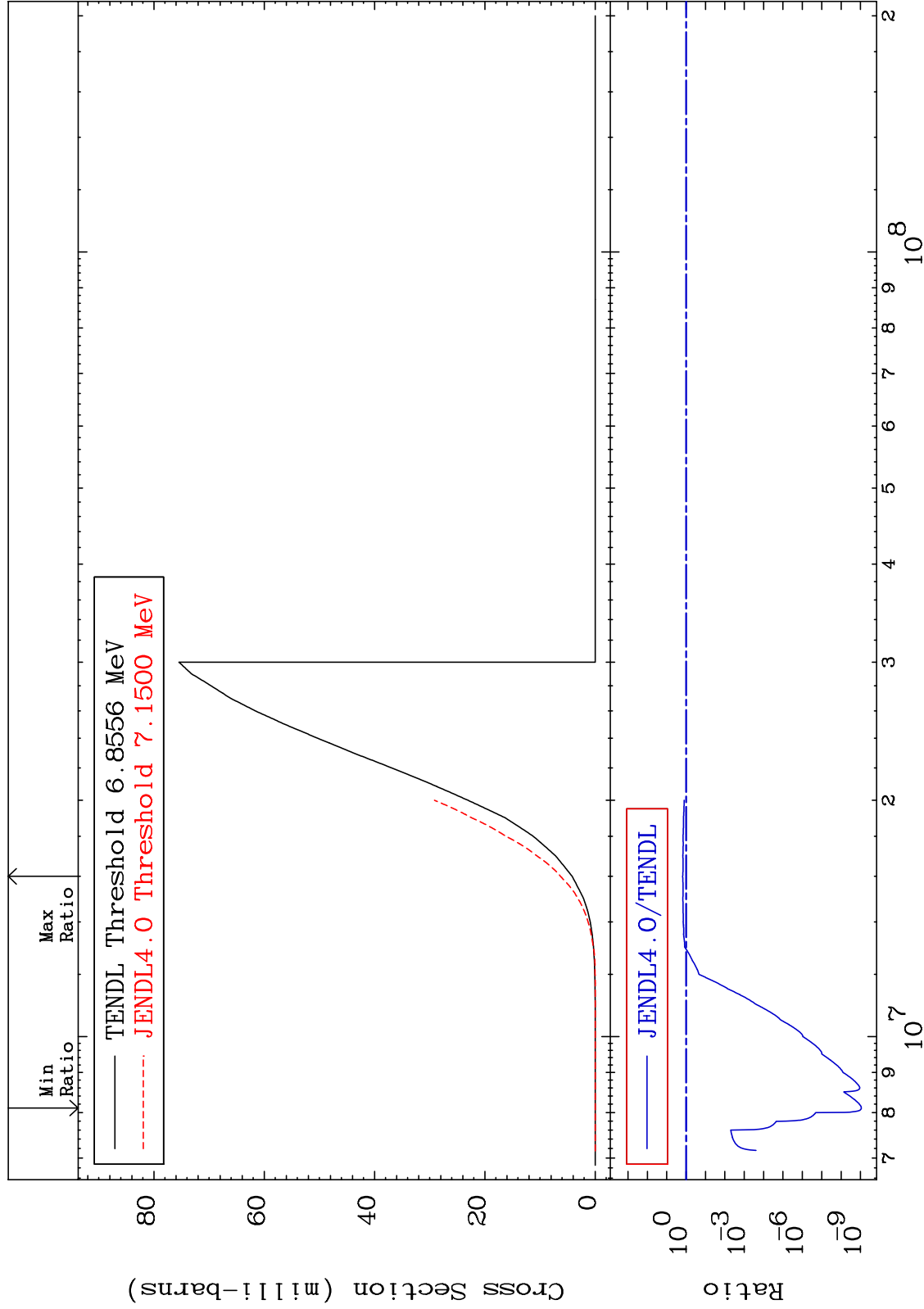
MAT 5331

(n,n') p

53-I -129

Cross Section

-100.0 To 50.64 %



7

Incident Energy (eV)

53-I -129

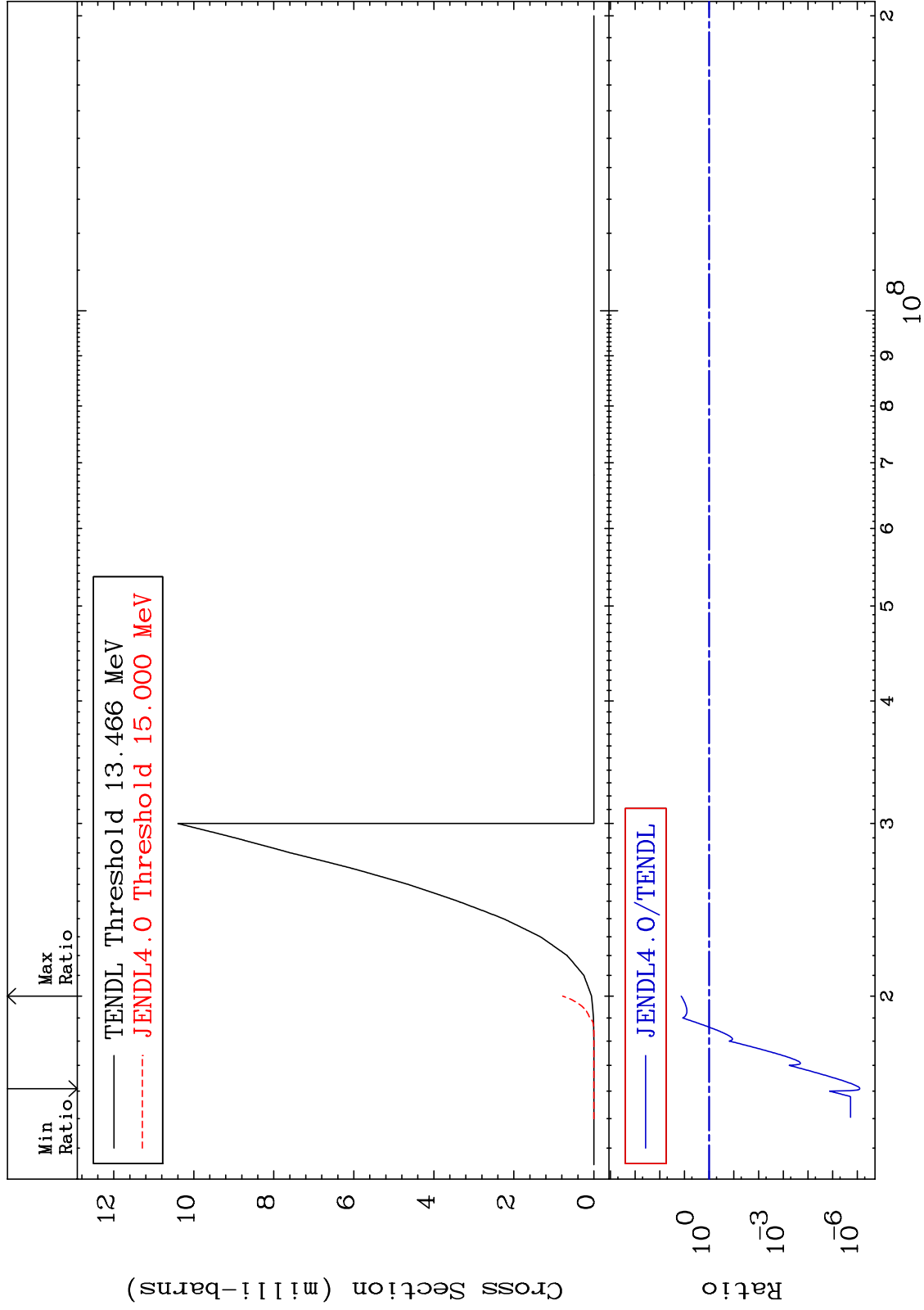
MAT 5331

(n,n') d

53-I -129

Cross Section

-100.0 To 1252. %



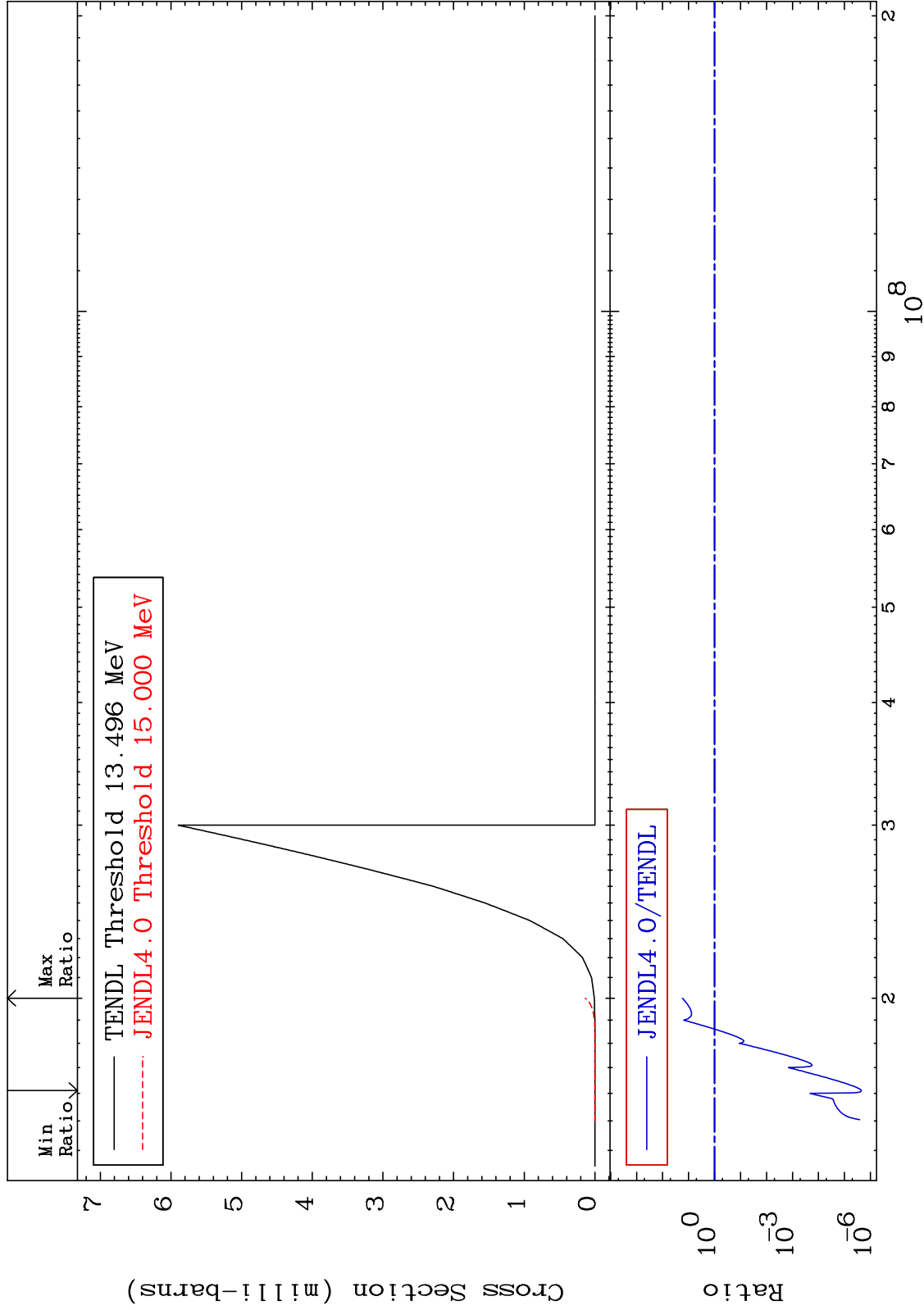
MAT 5331

(n,n') t

53-I -129

Cross Section

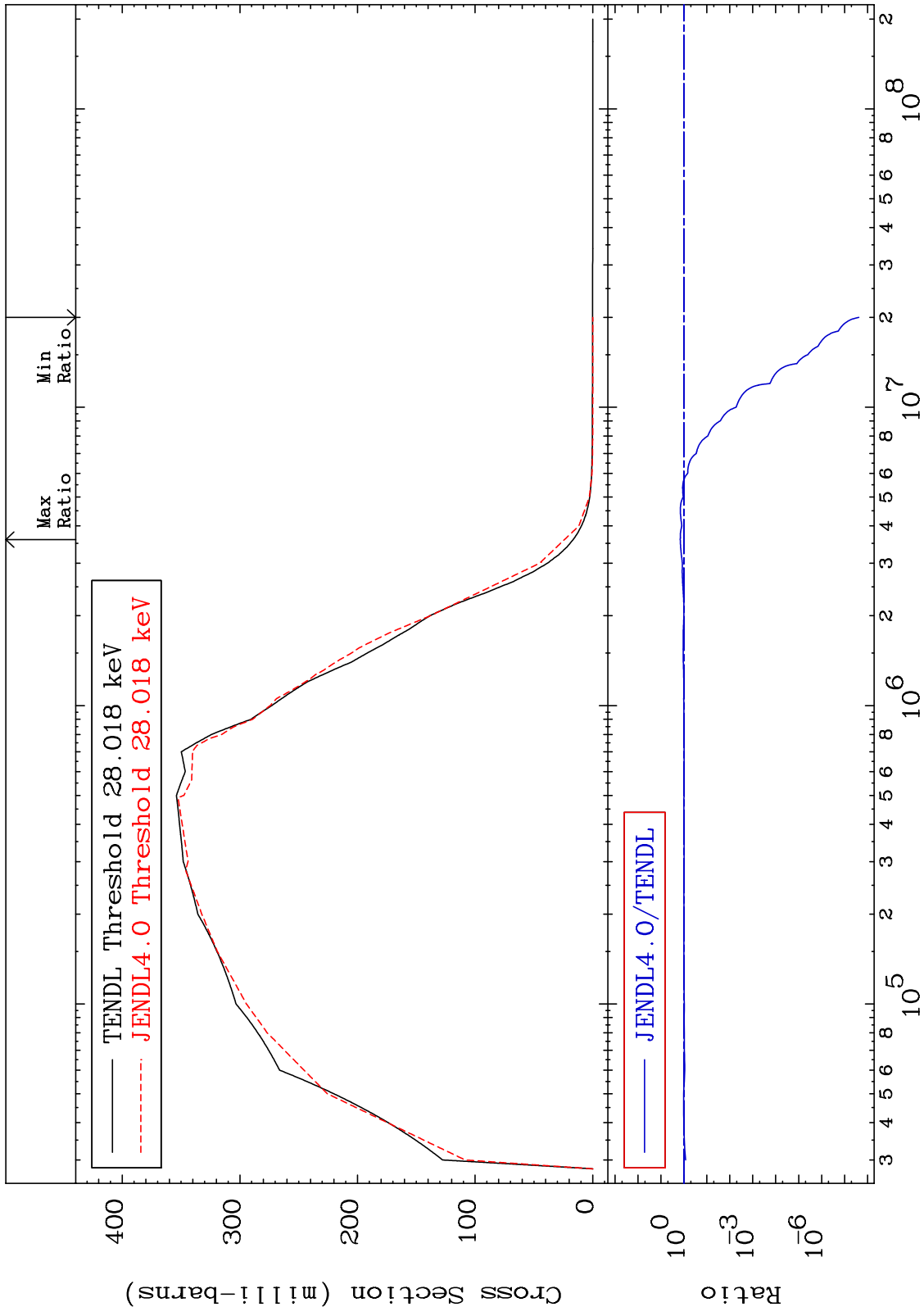
-100.0 To 1617. %



MAT 5331

MT= 51 (n,n') Level
Cross Section

53-I -129
-100.0 To 44.85 %



10

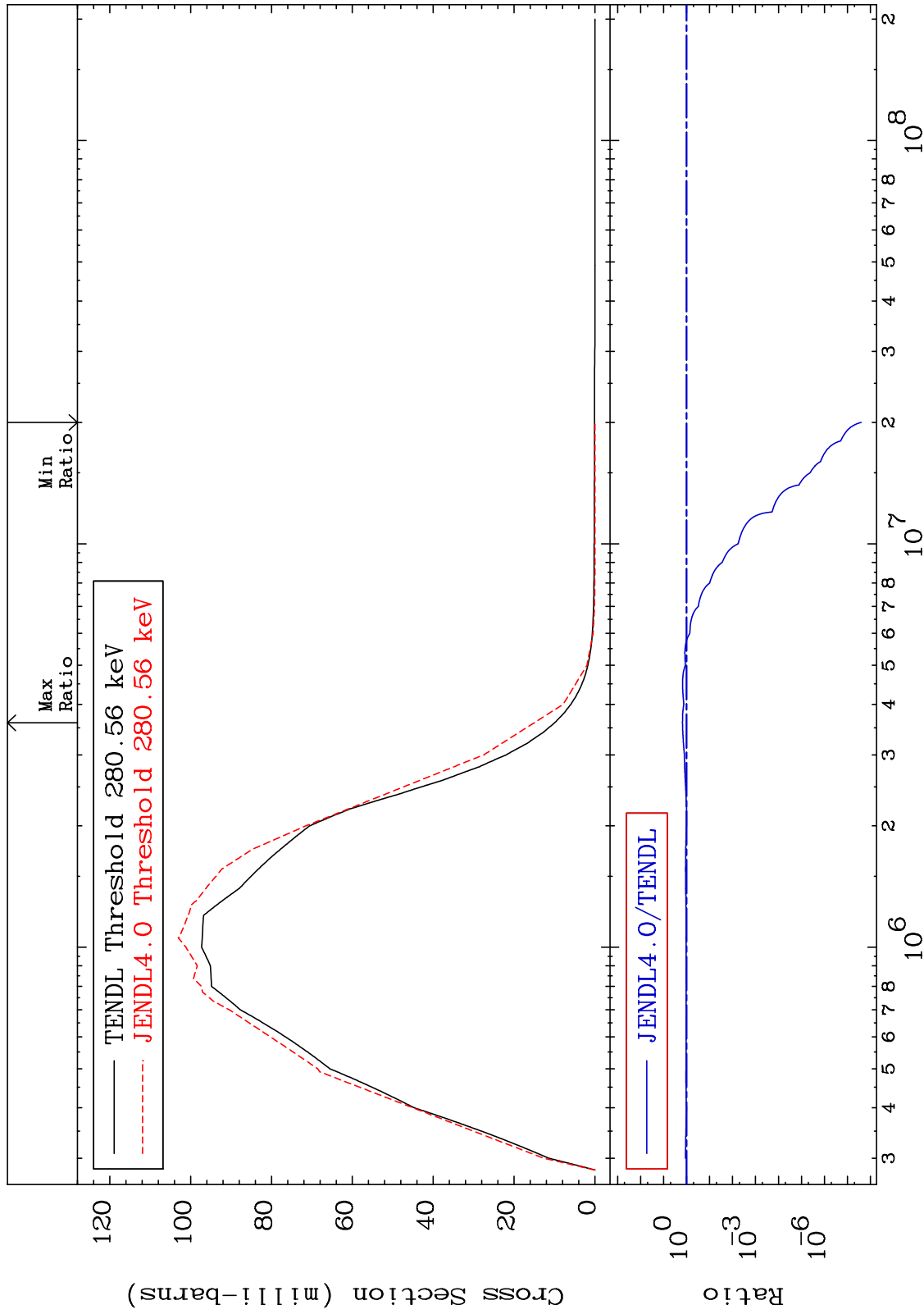
Incident Energy (eV)

53-I -129

MAT 5331

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

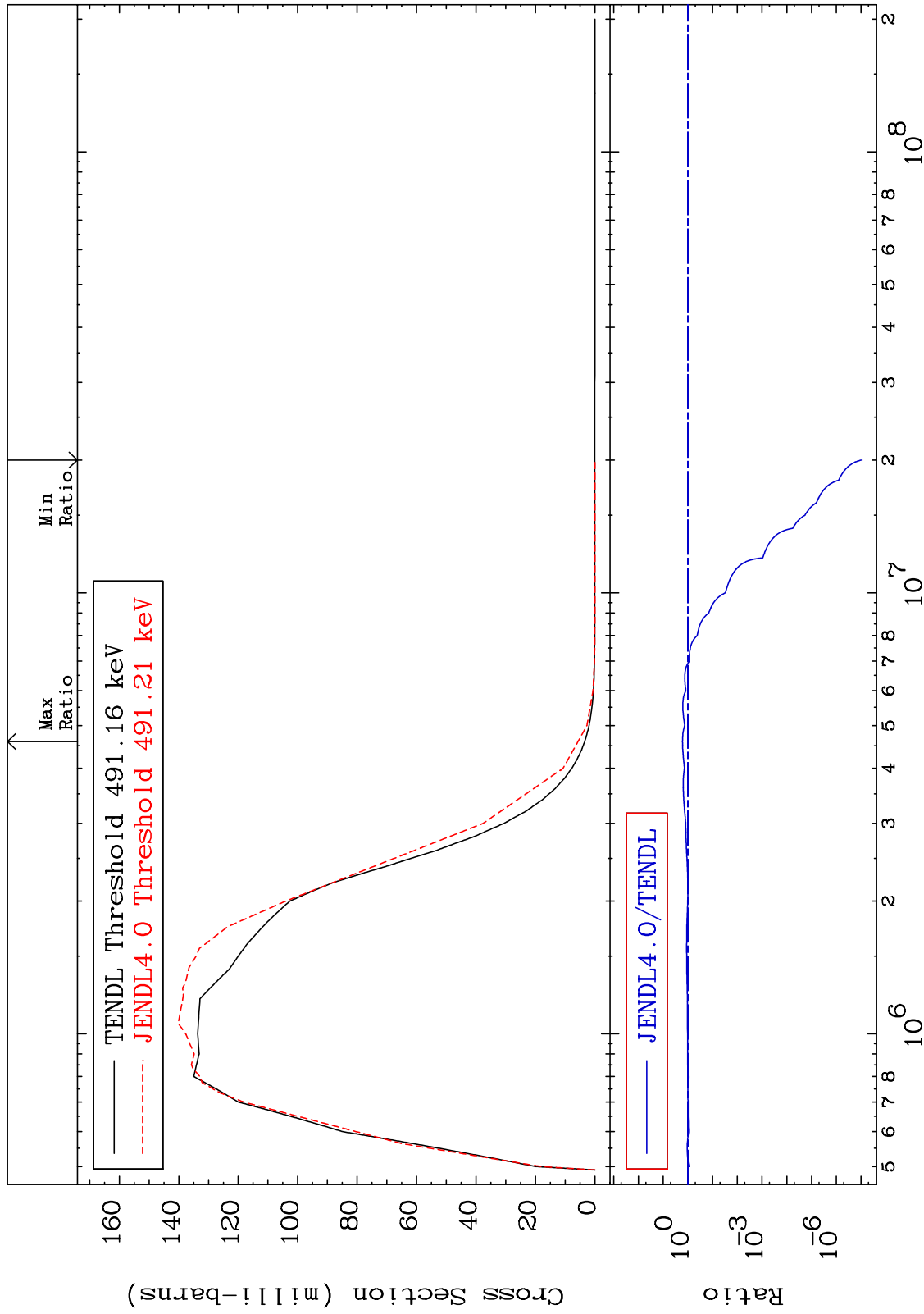
53-I -129
-100.0 To 50.90 %



MAT 5331

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

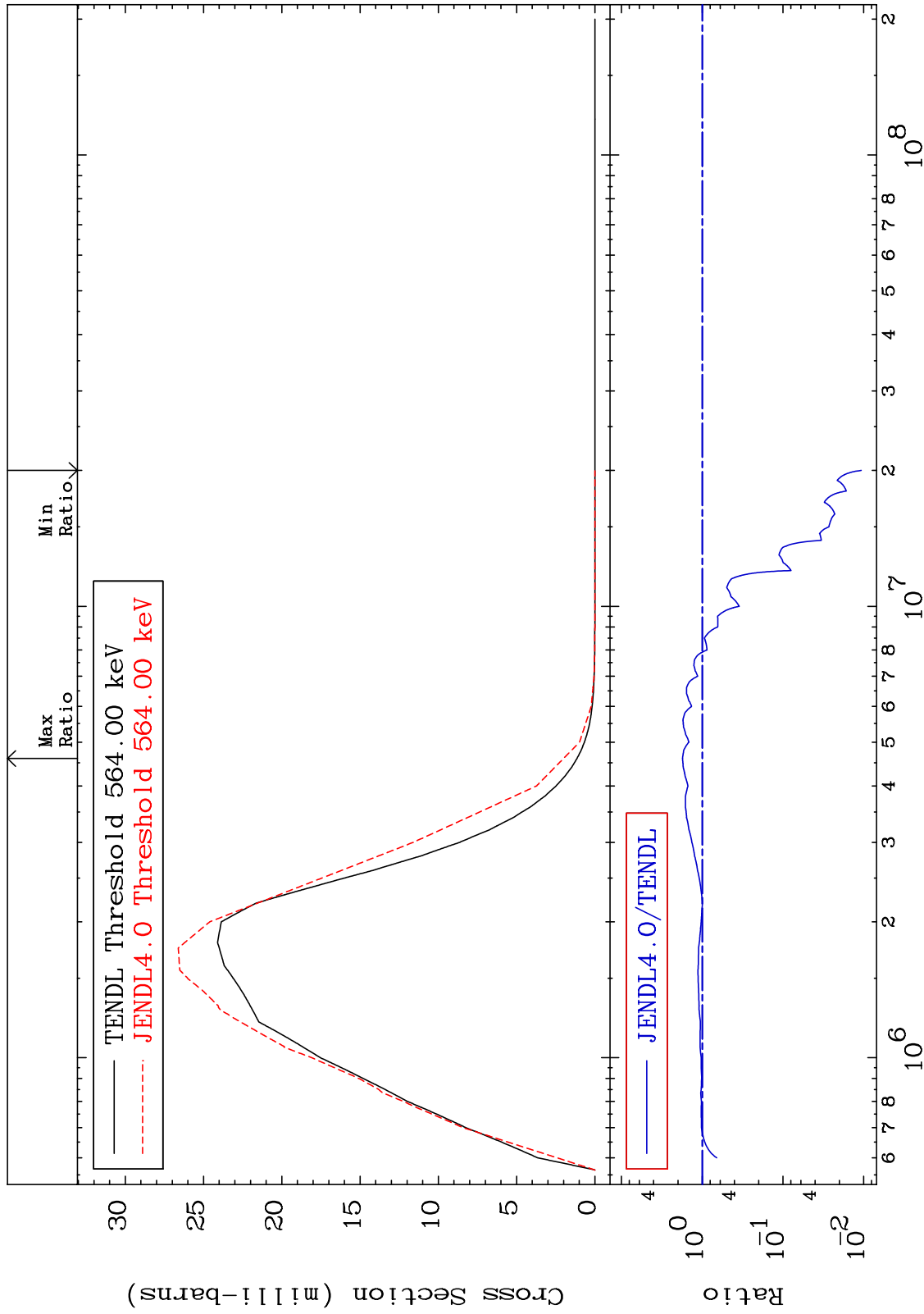
53-I -129
-100.0 To 65.66 %



MAT 5331

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

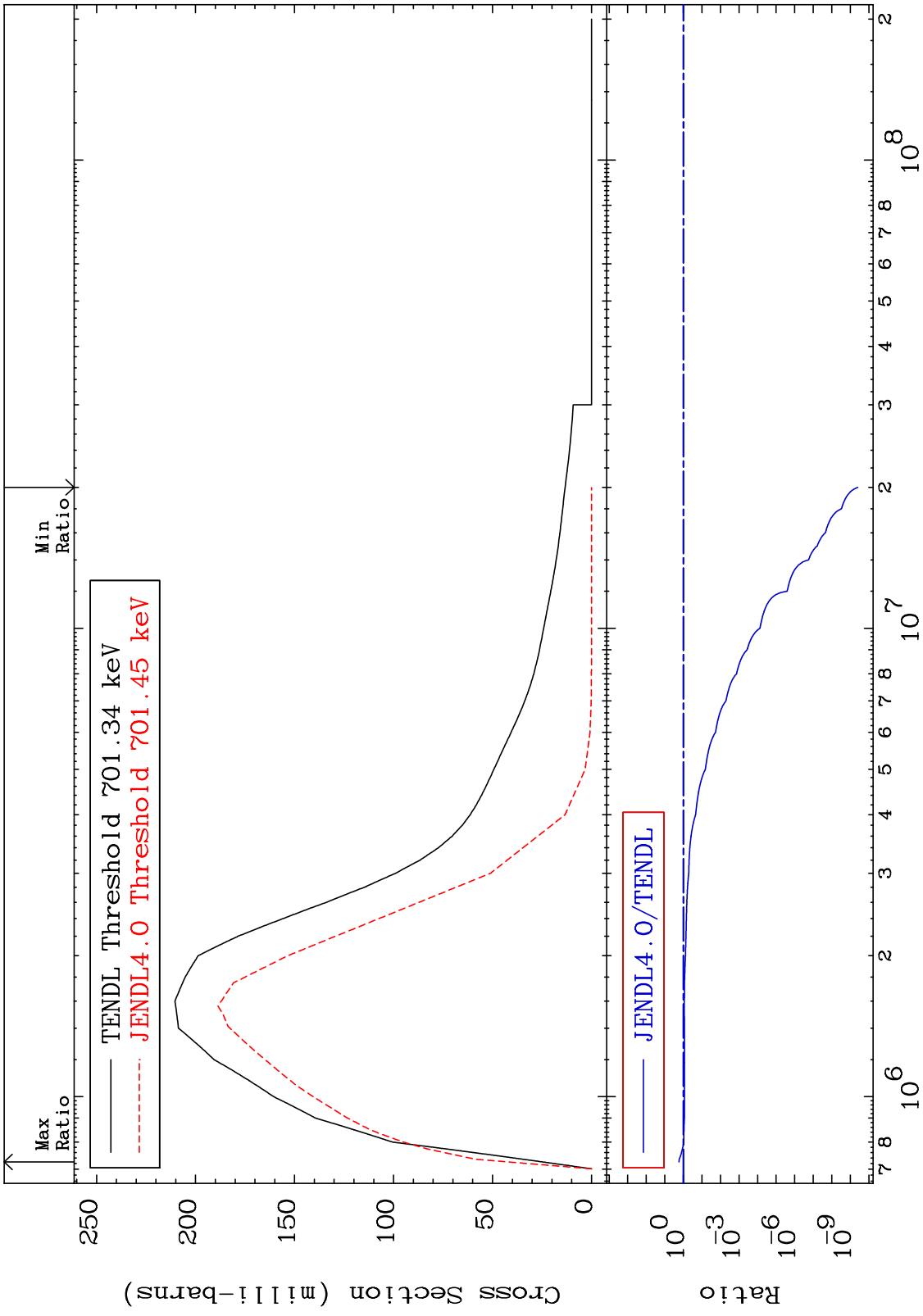
53-I -129
-98.93 To 75.77 %



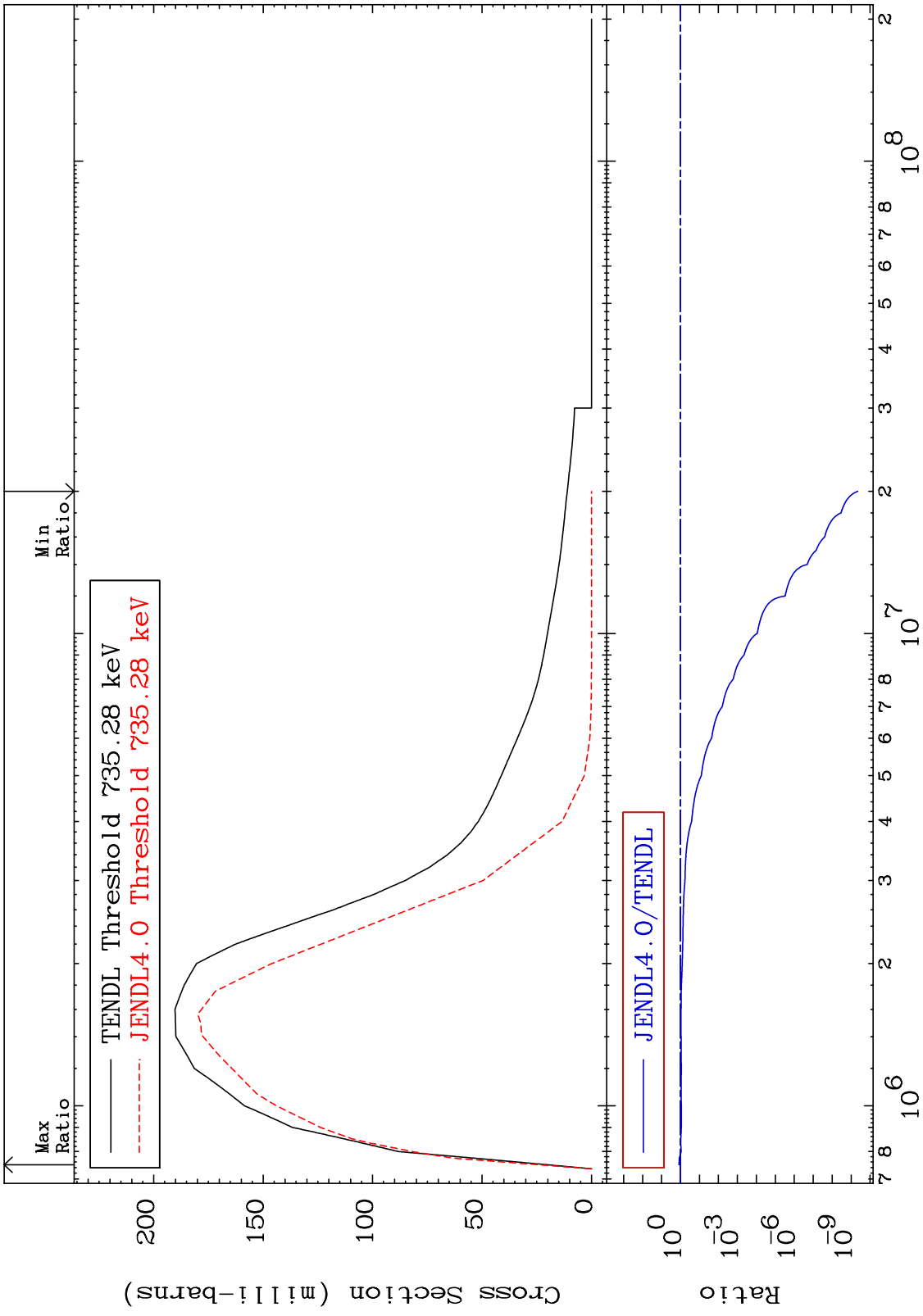
13

53-I -129

MAT 5331 MT= 55 (n,n') Level Cross Section 53-I -129
 -100.0 To 70.76 %



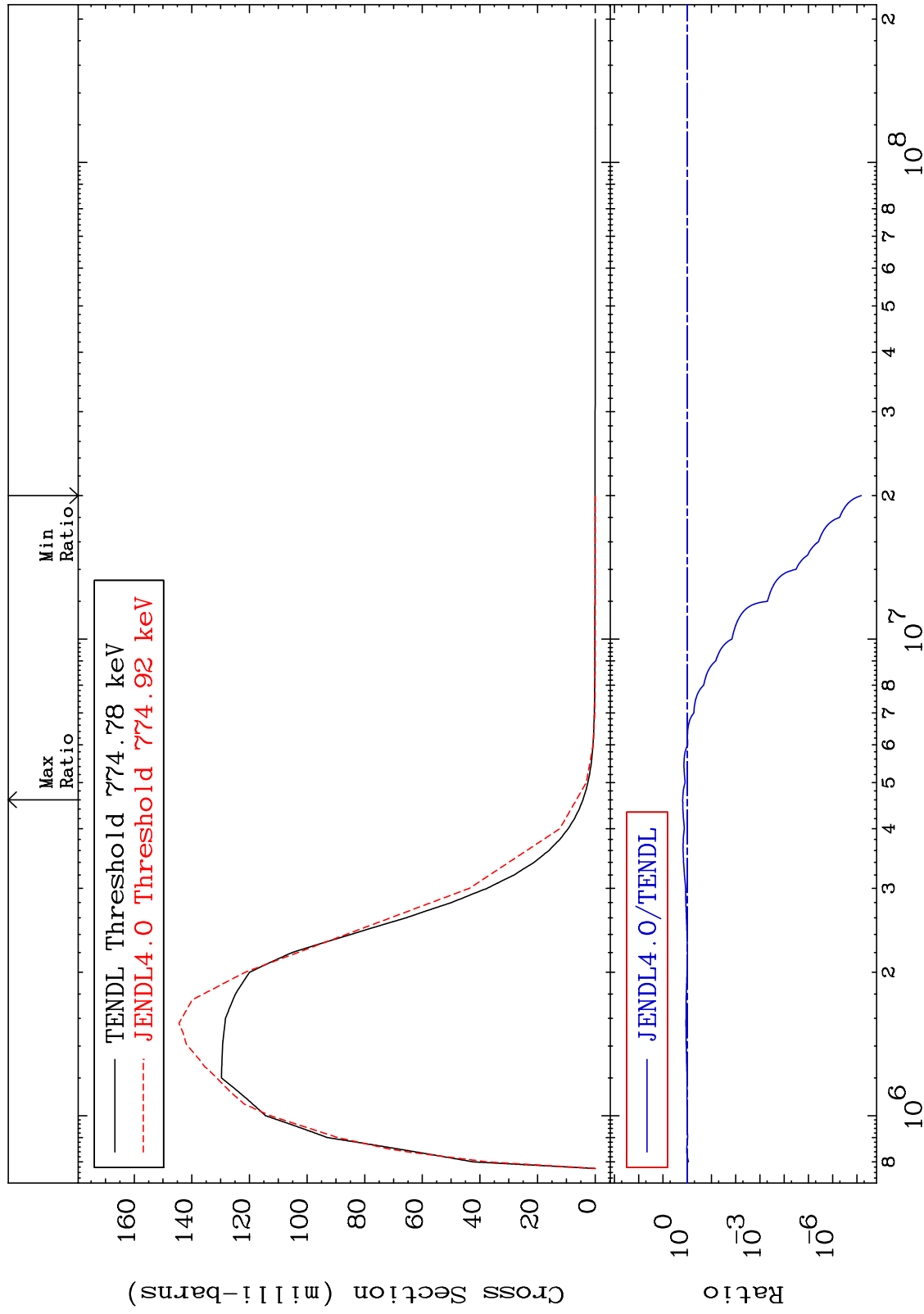
MAT 5331 MT= 56 (n,n') Level Cross Section 53-I -129
 -100.0 To 19.44 %



MAT 5331

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

53-I -129
-100.0 To 53.39 %

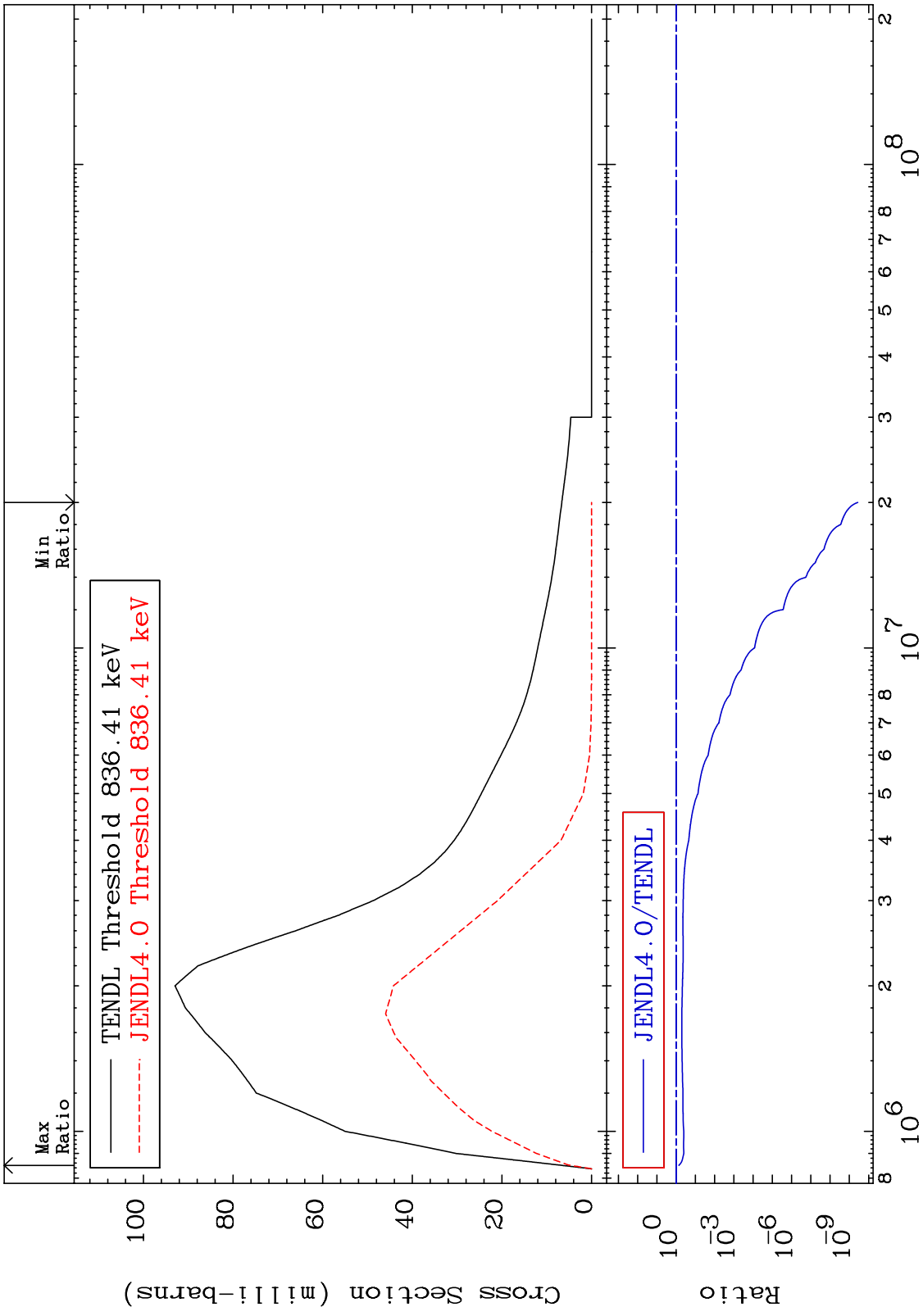


16

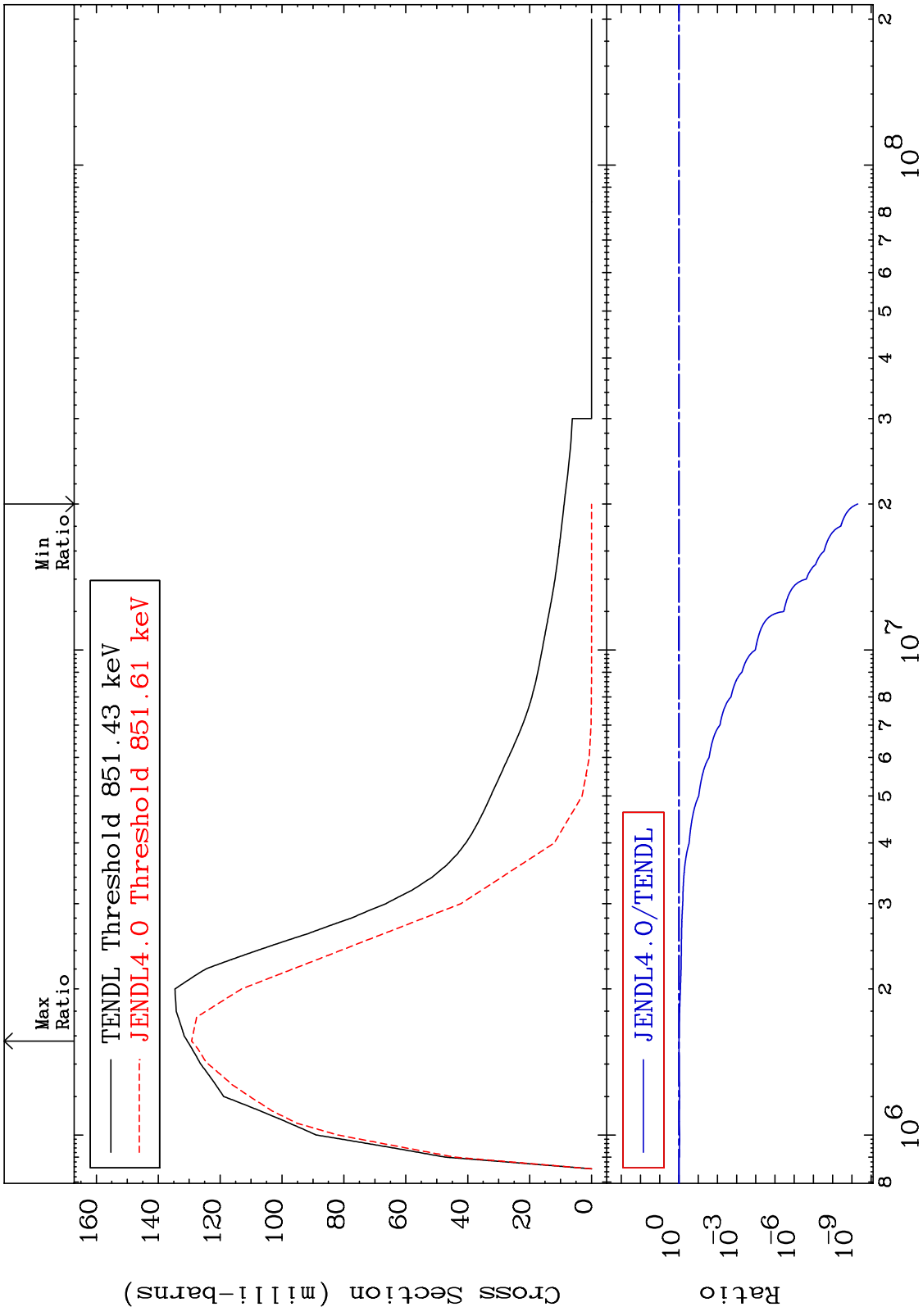
Incident Energy (eV)

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%

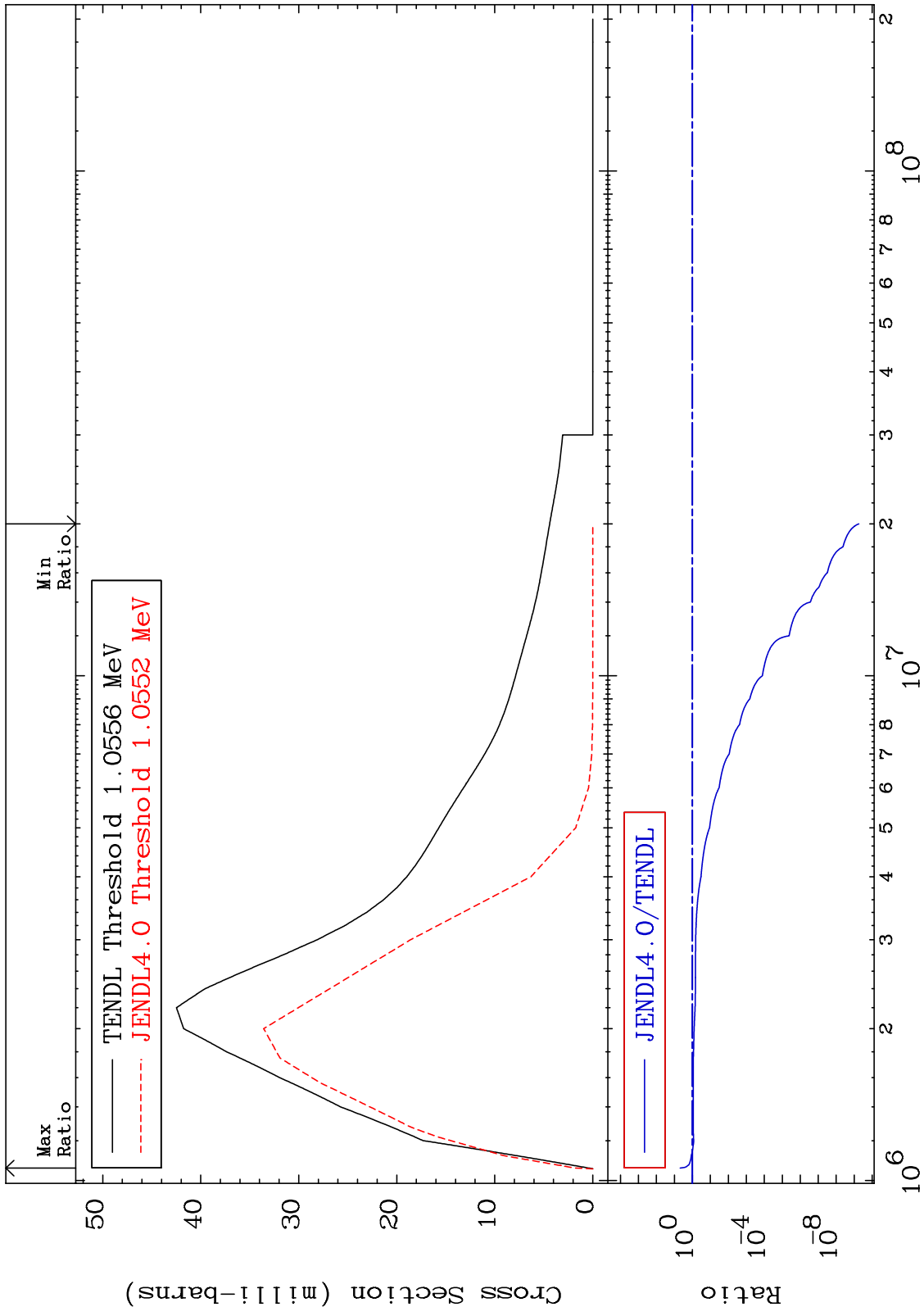


18 53-I -129

MAT 5331

MT= 60 (n,n') Level
Cross Section

53-I -129
-100.0 To 375.6 %



19

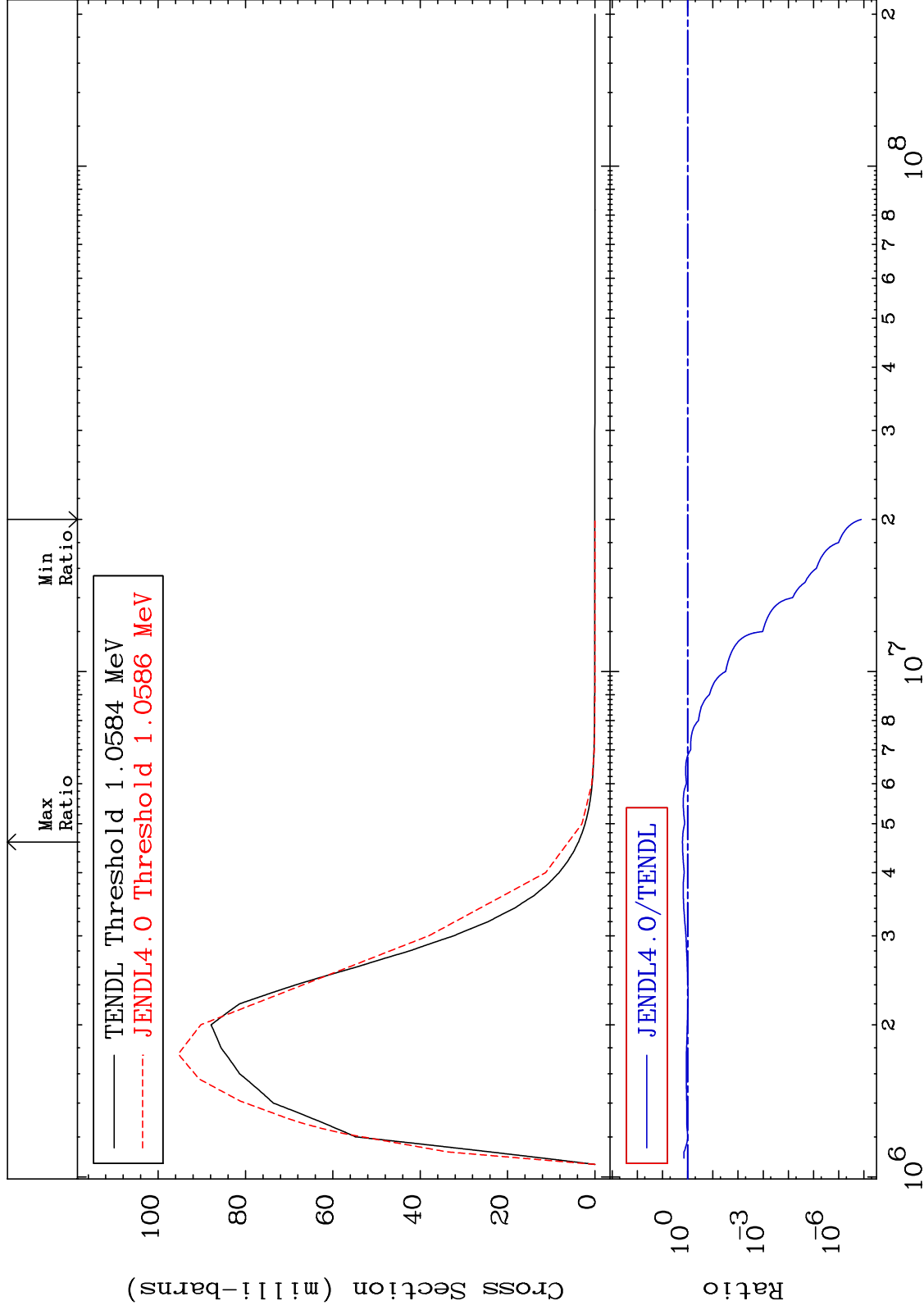
Incident Energy (eV)

53-I -129

MAT 5331

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

53-I -129
-100.0 To 60.89 %

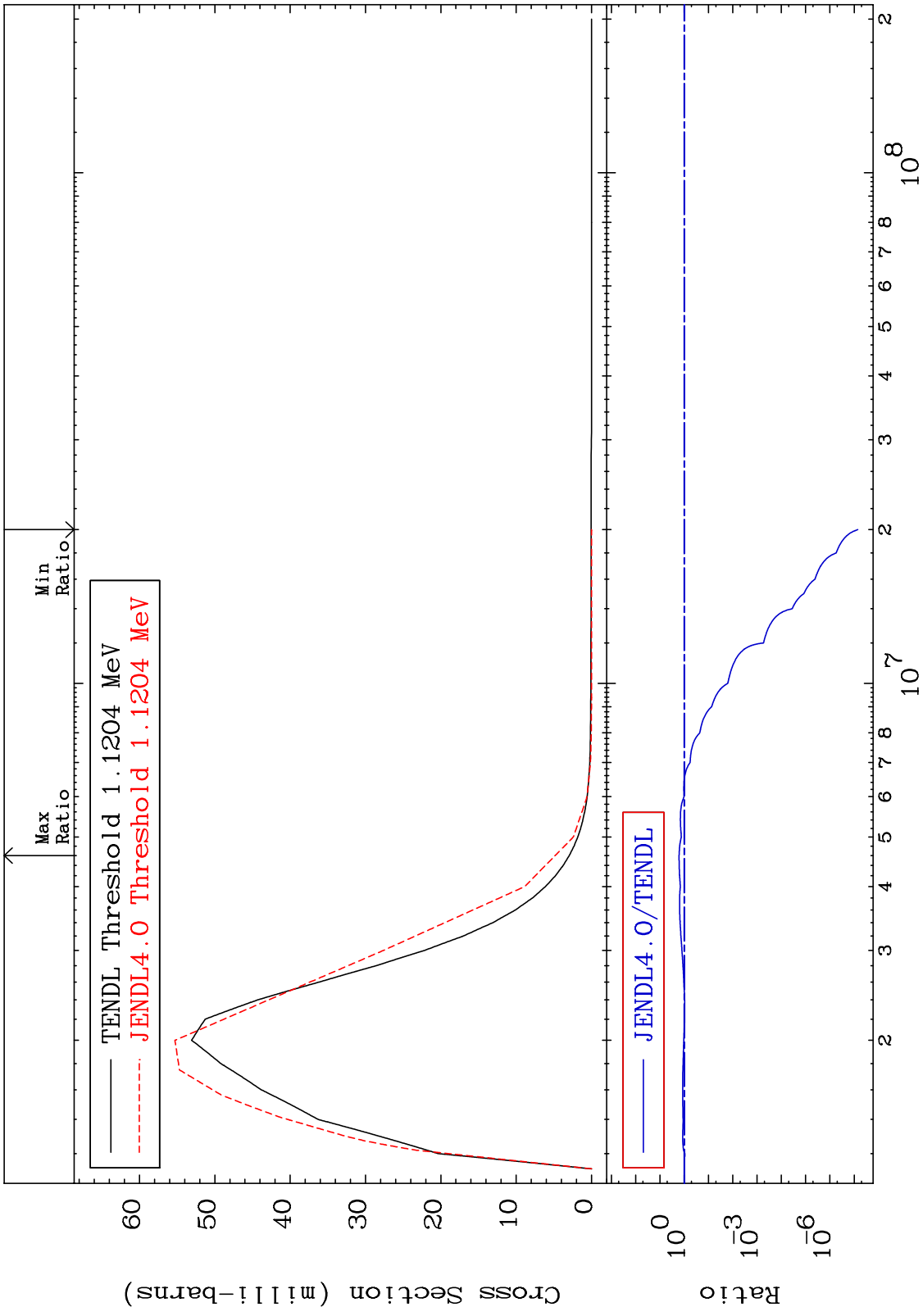


20

Incident Energy (eV)

53-I -129

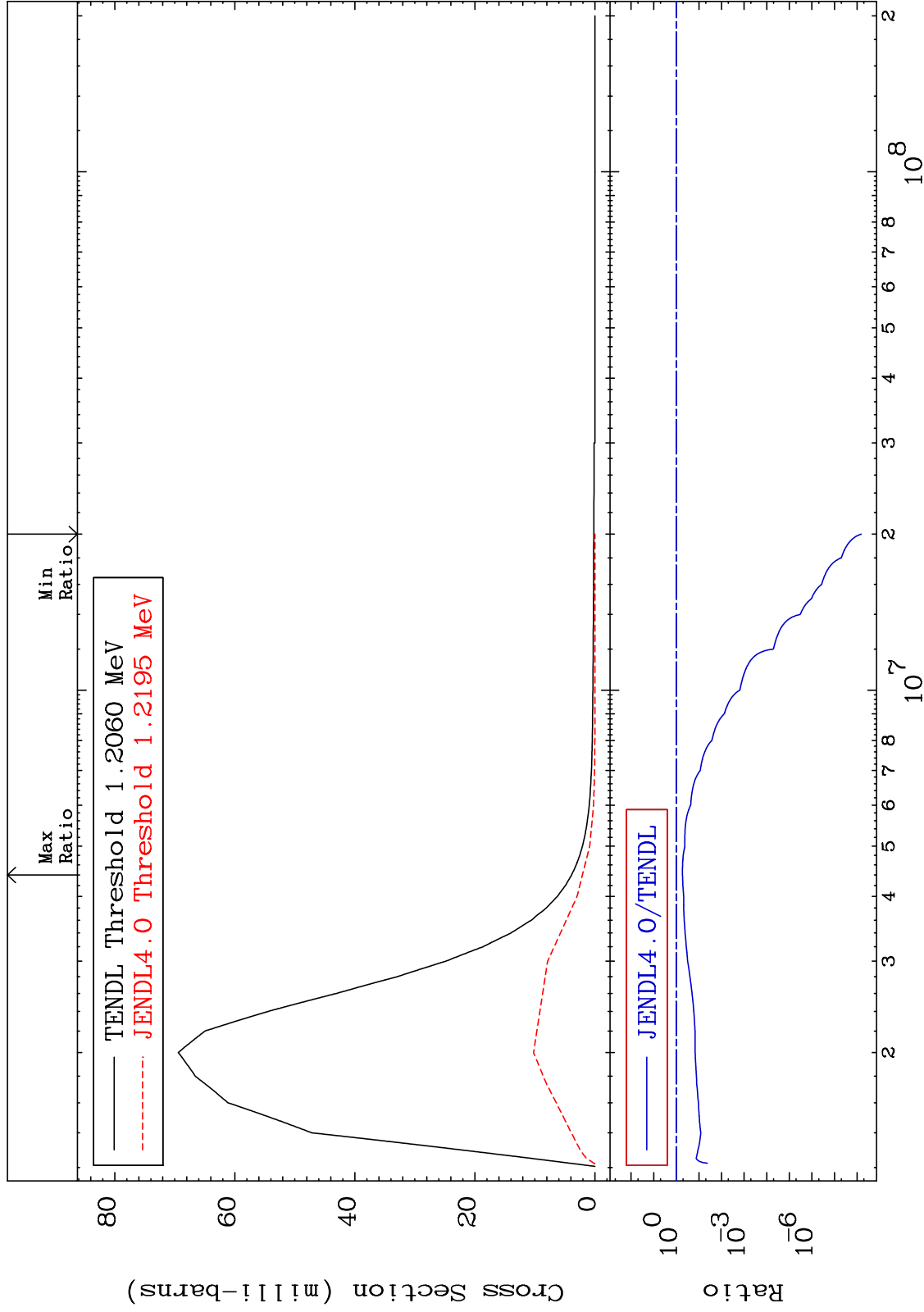
MAT 5331 MT= 62 (n,n') Level Cross Section 53-I -129
 -100.0 To 63.33 %



MAT 5331

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

53-I -129
-100.0 To -46.51%



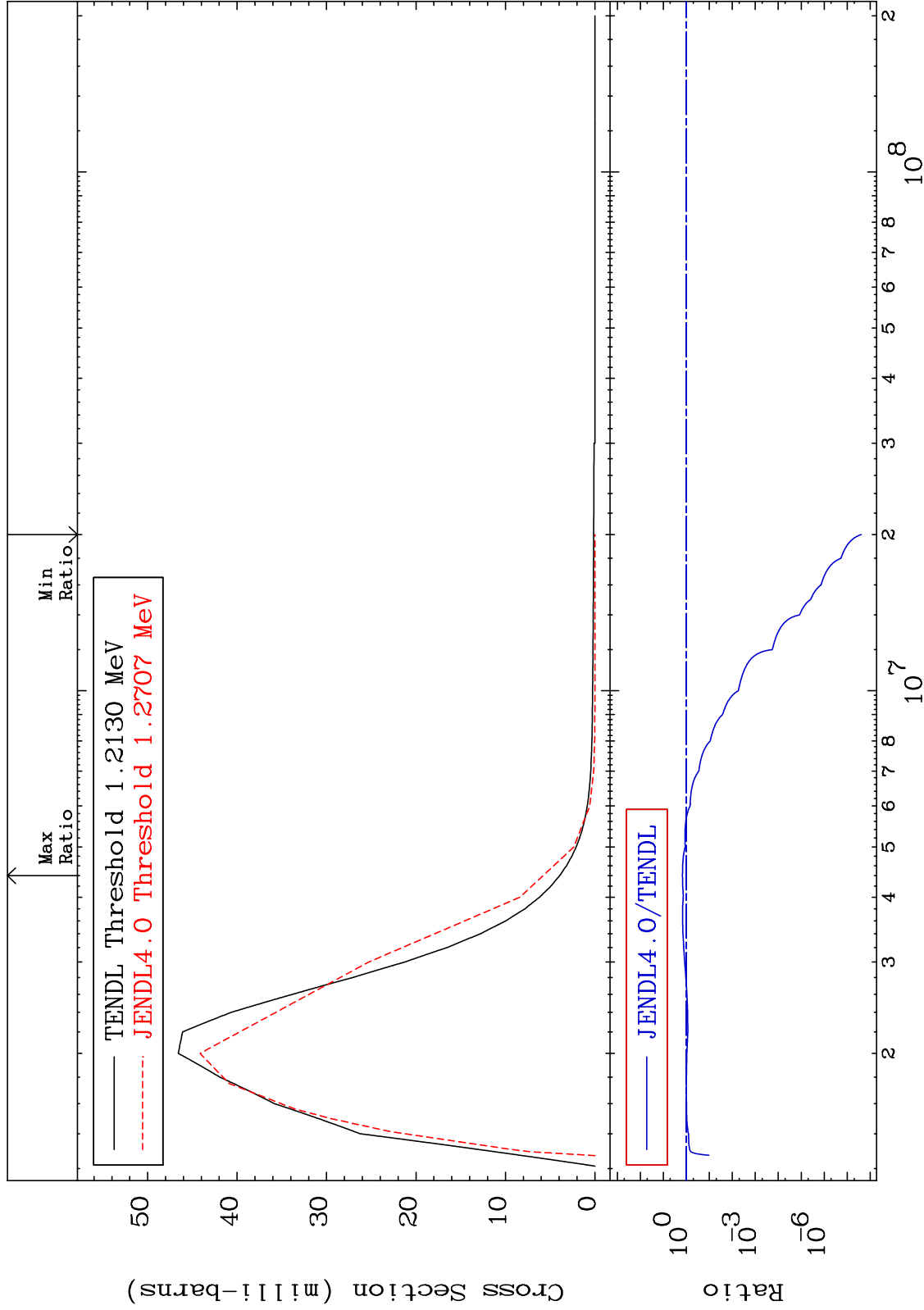
22

53-I -129

MAT 5331

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

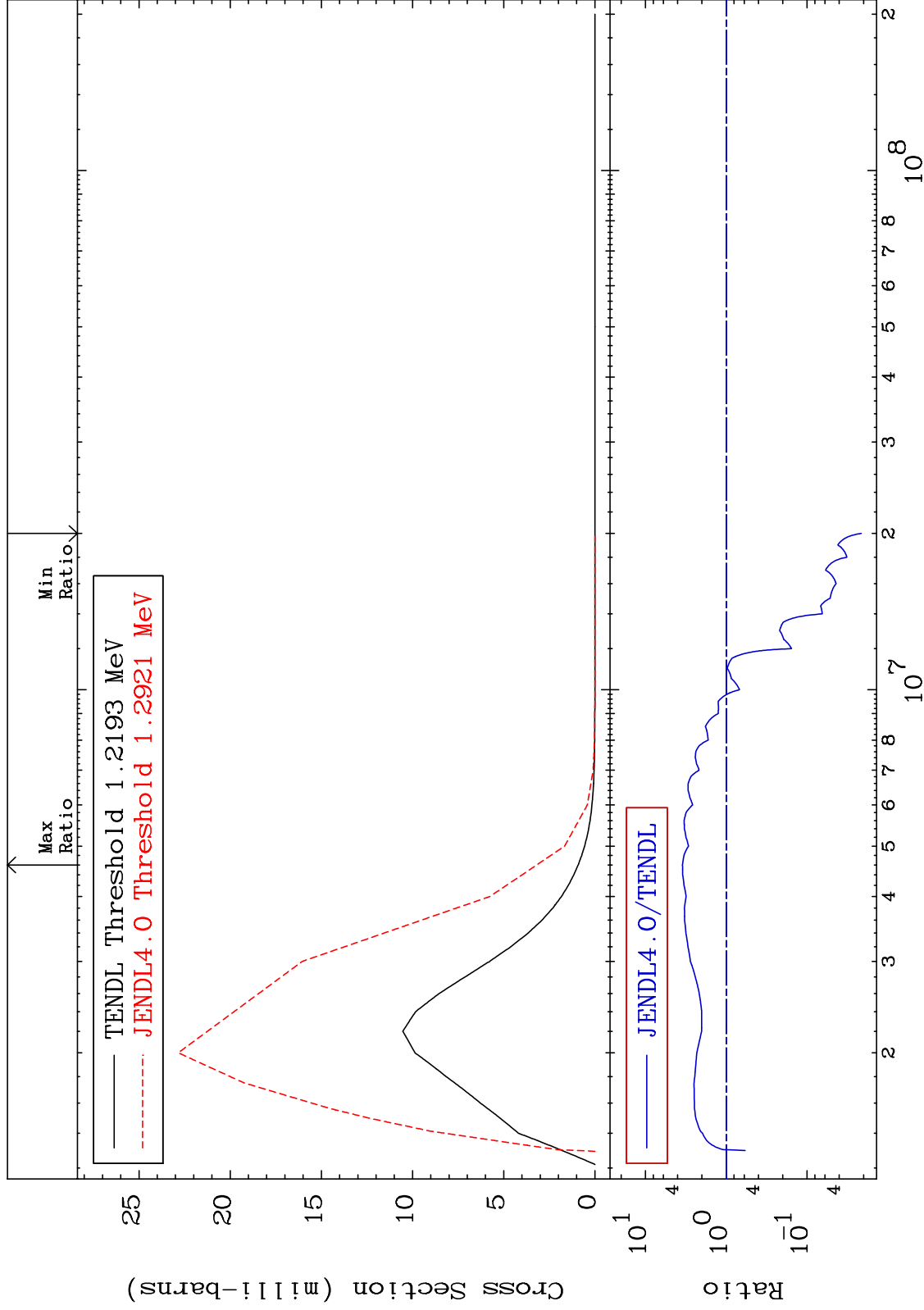
53-I -129
-100.0 To 47.12 %



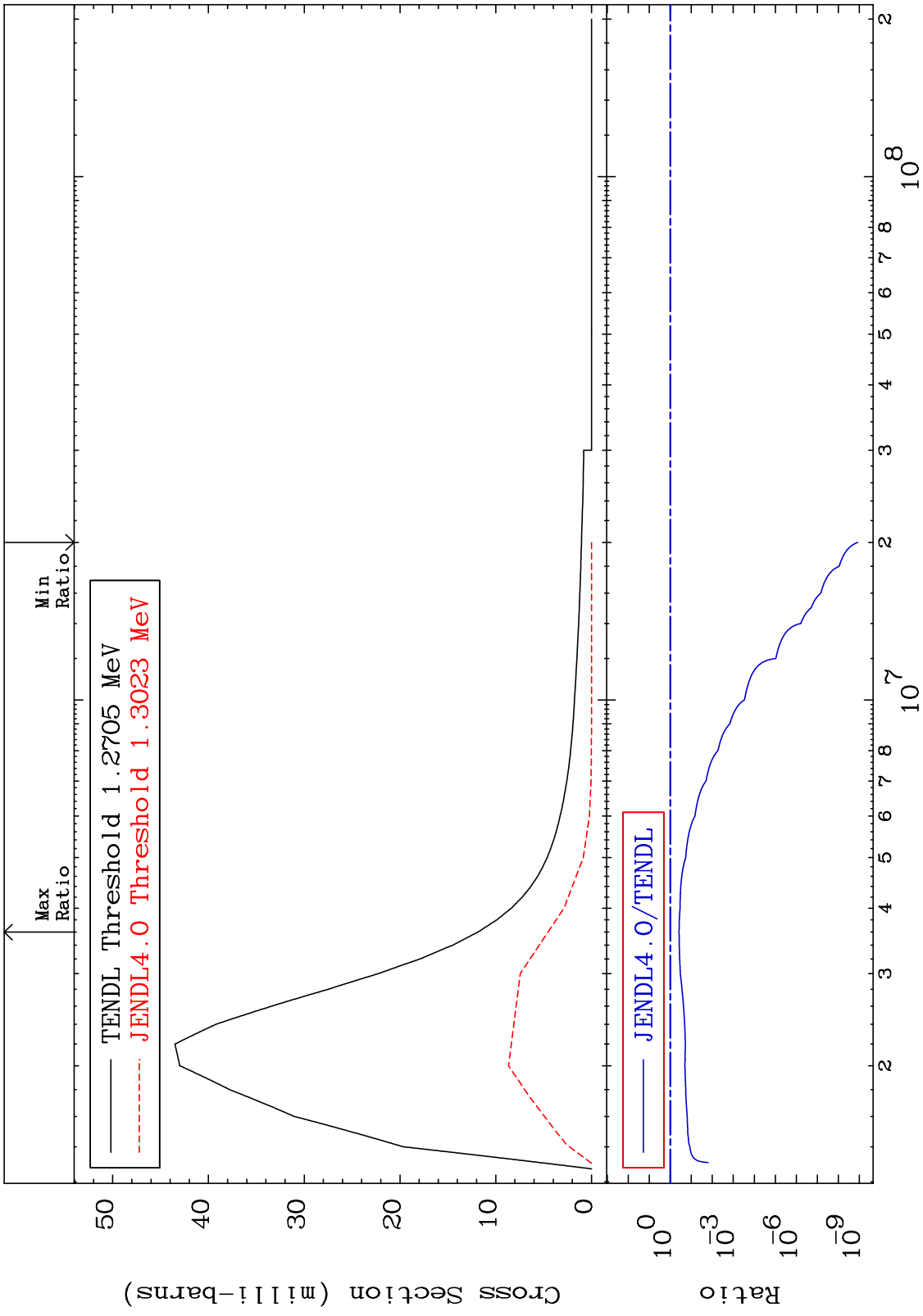
MAT 5331

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

53-I -129
-97.87 To 248.2 %



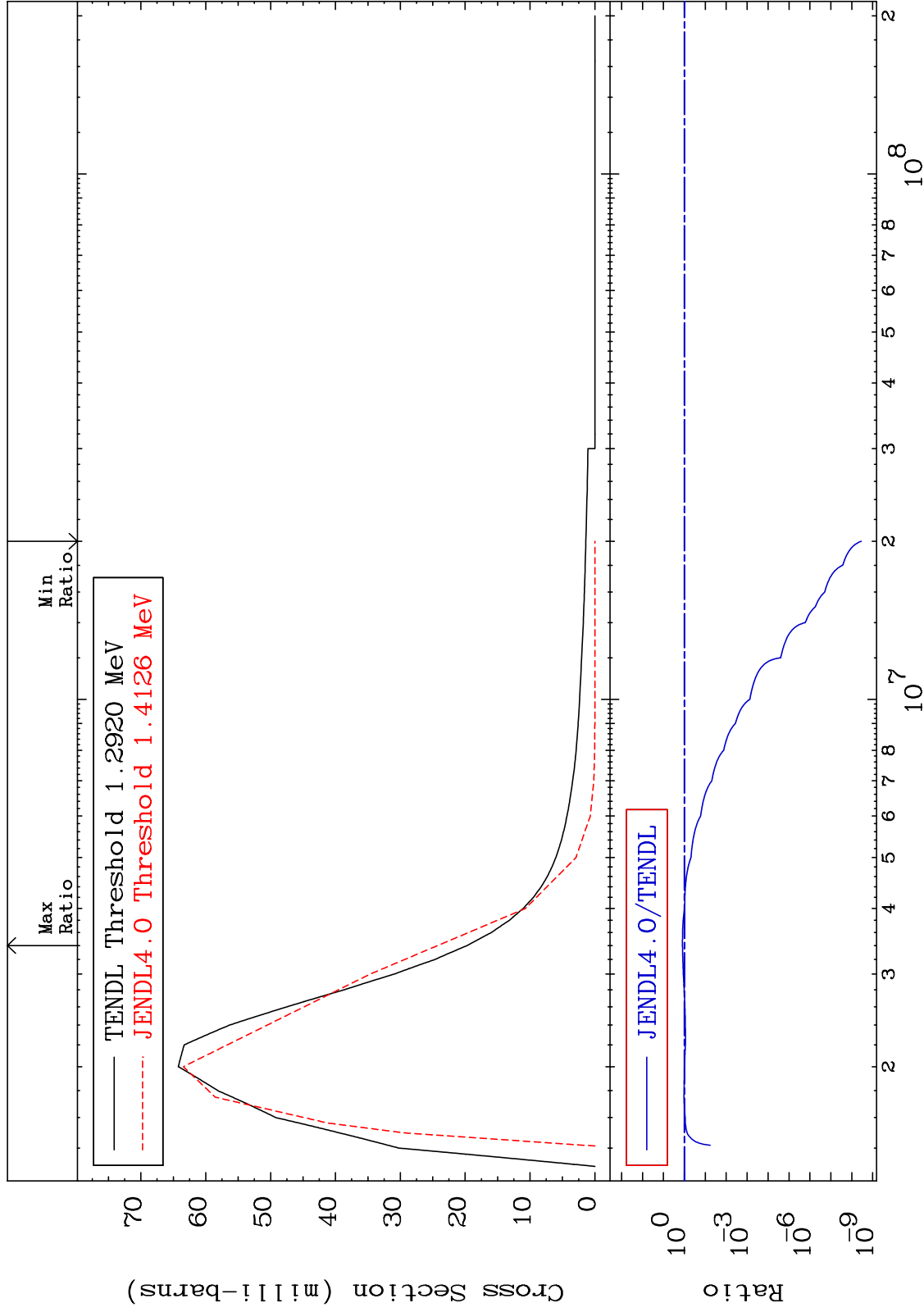
MAT 5331 MT= 66 (n,n') Level Cross Section 53-I -129 -100.0 To -61.67%



MAT 5331

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

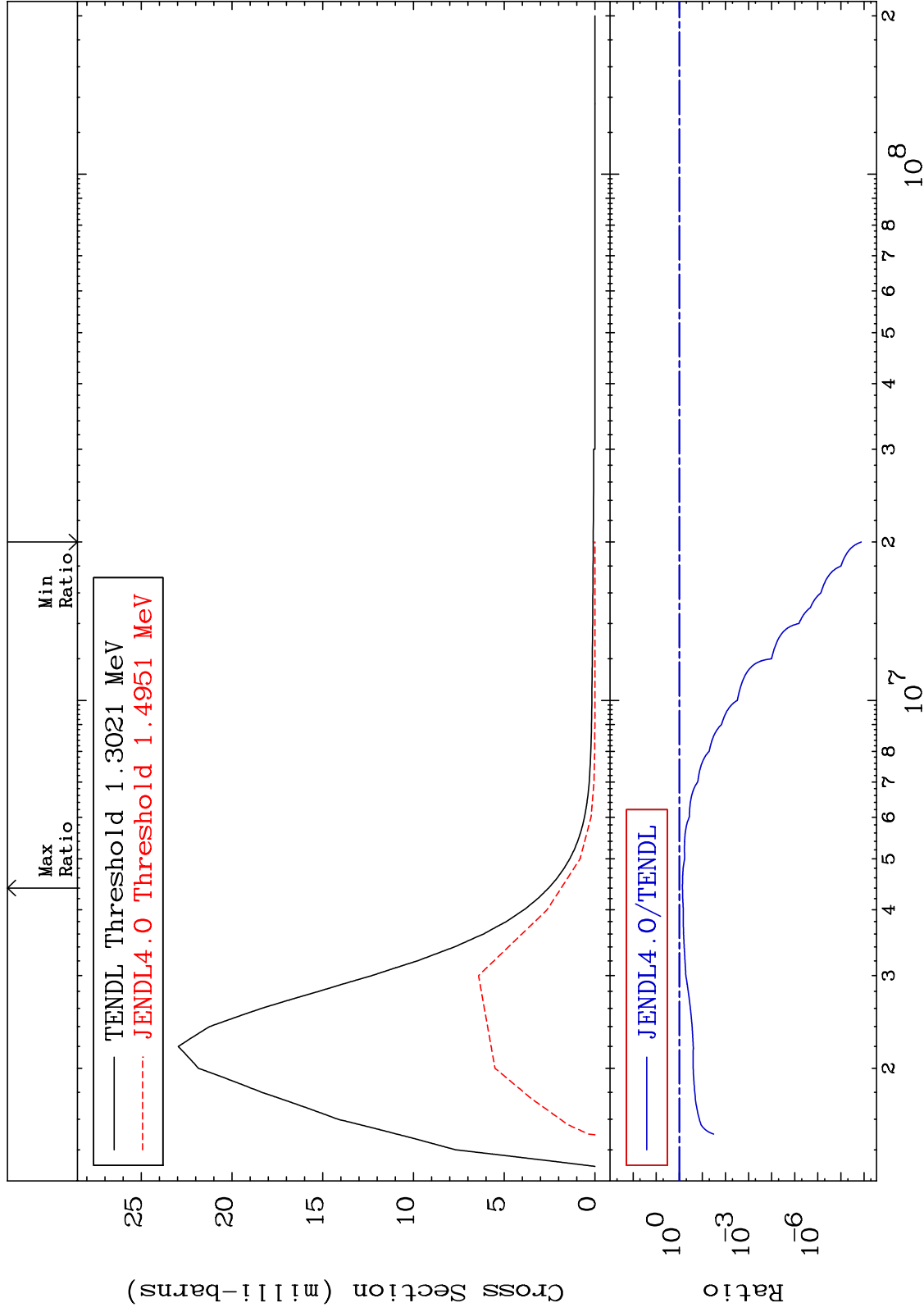
53-I -129
-100.0 To 23.06 %



MAT 5331

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

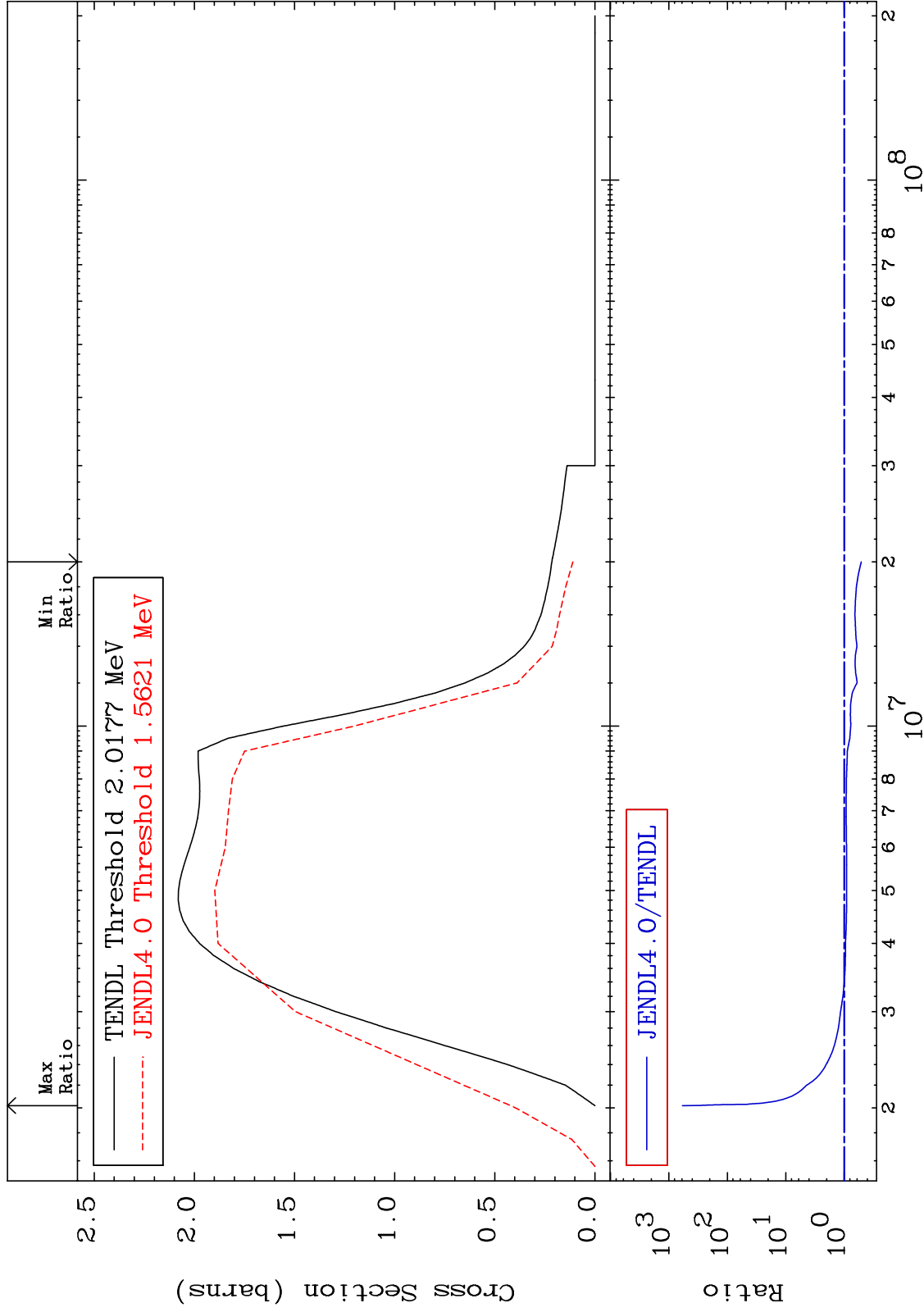
53-I -129
-100.0 To -27.04%



MAT 5331

(n,n') Continuum
Cross Section

53-I -129
-49.00 To 9999. %



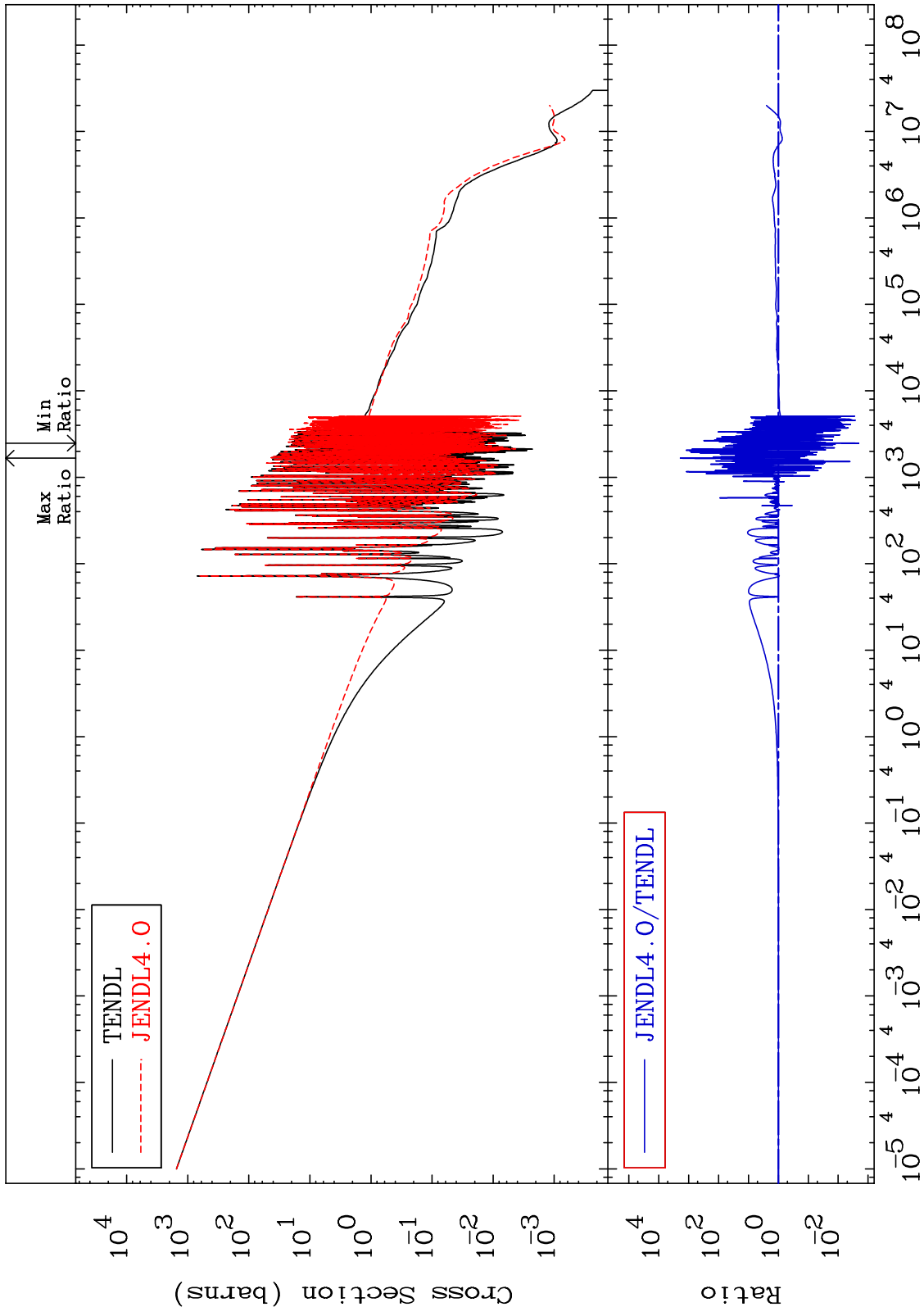
MAT 5331

(n, γ)

53-I -129

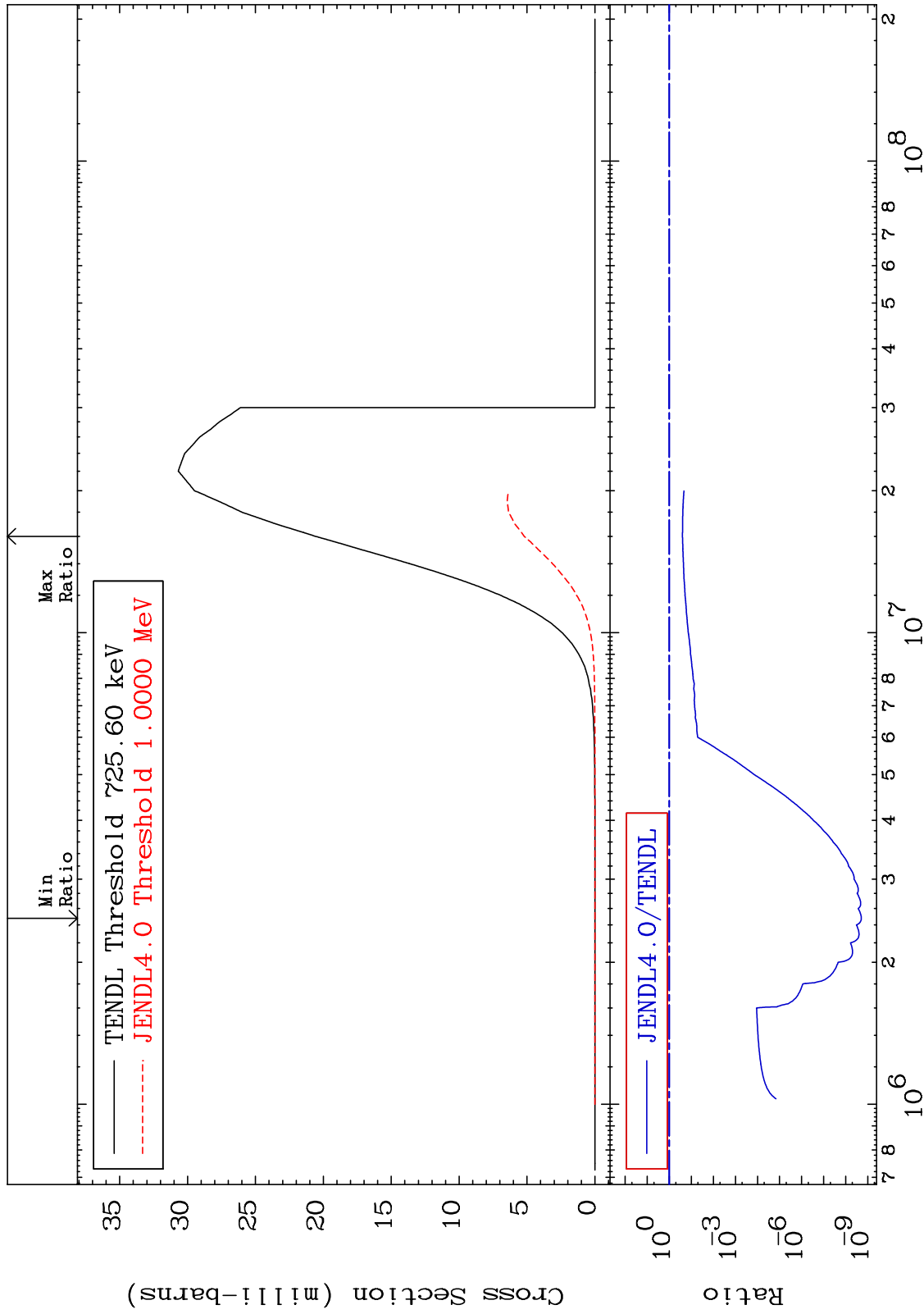
-99.80 To 9999. %

Cross Section



MAT 5331

(n,p) Cross Section
53-I -129
-100.0 To -74.70%



30

Incident Energy (eV)

53-I -129

MAT 5331

(n,d)

53-I -129

-100.0 To 49.44 %

Cross Section

Min Ratio

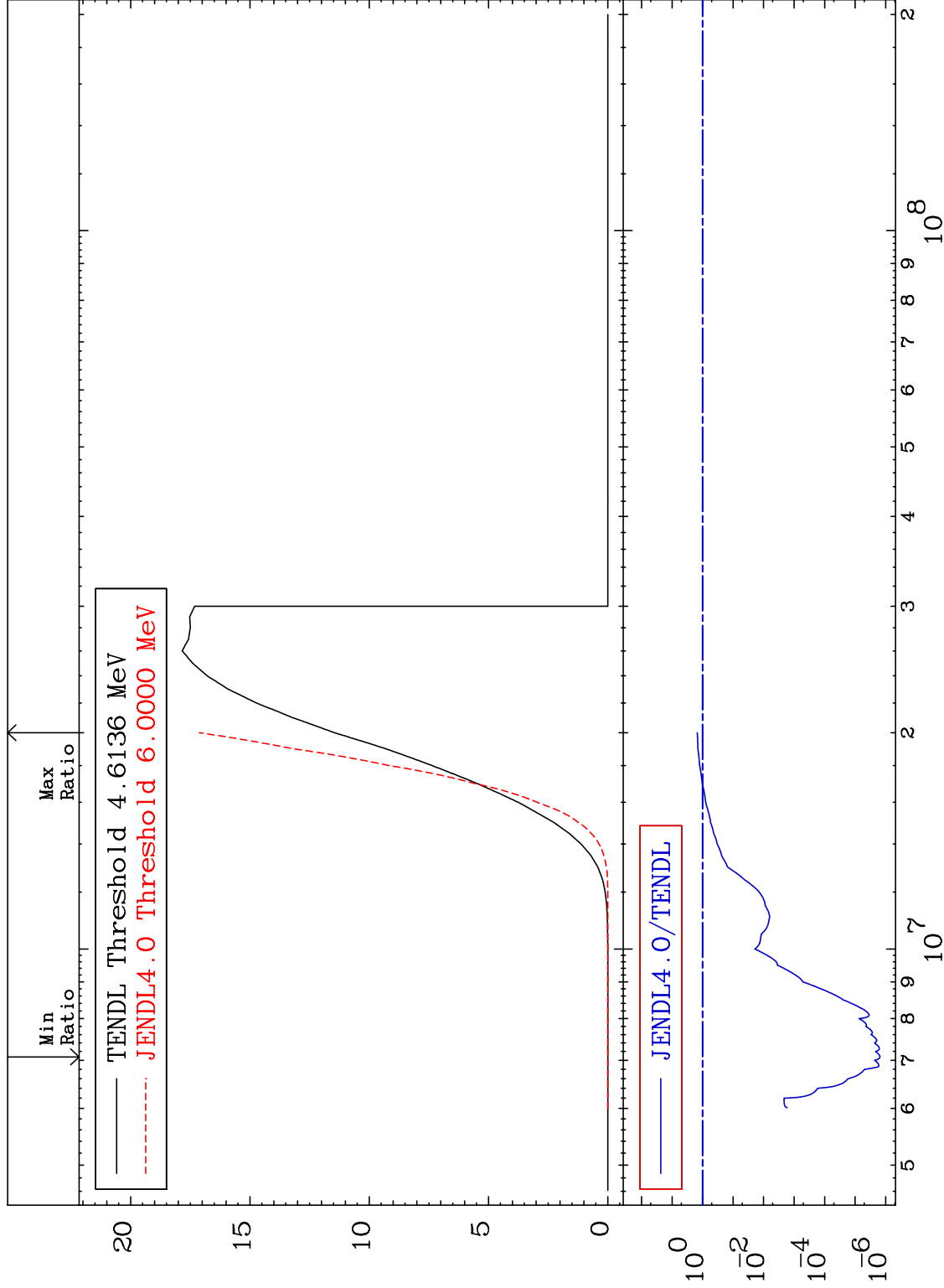
Max Ratio

— TENDL Threshold 4.6136 MeV
- - - JENDL4.0 Threshold 6.0000 MeV

Cross Section (milli-barns)

JENDL4.0/TENDL

Ratio



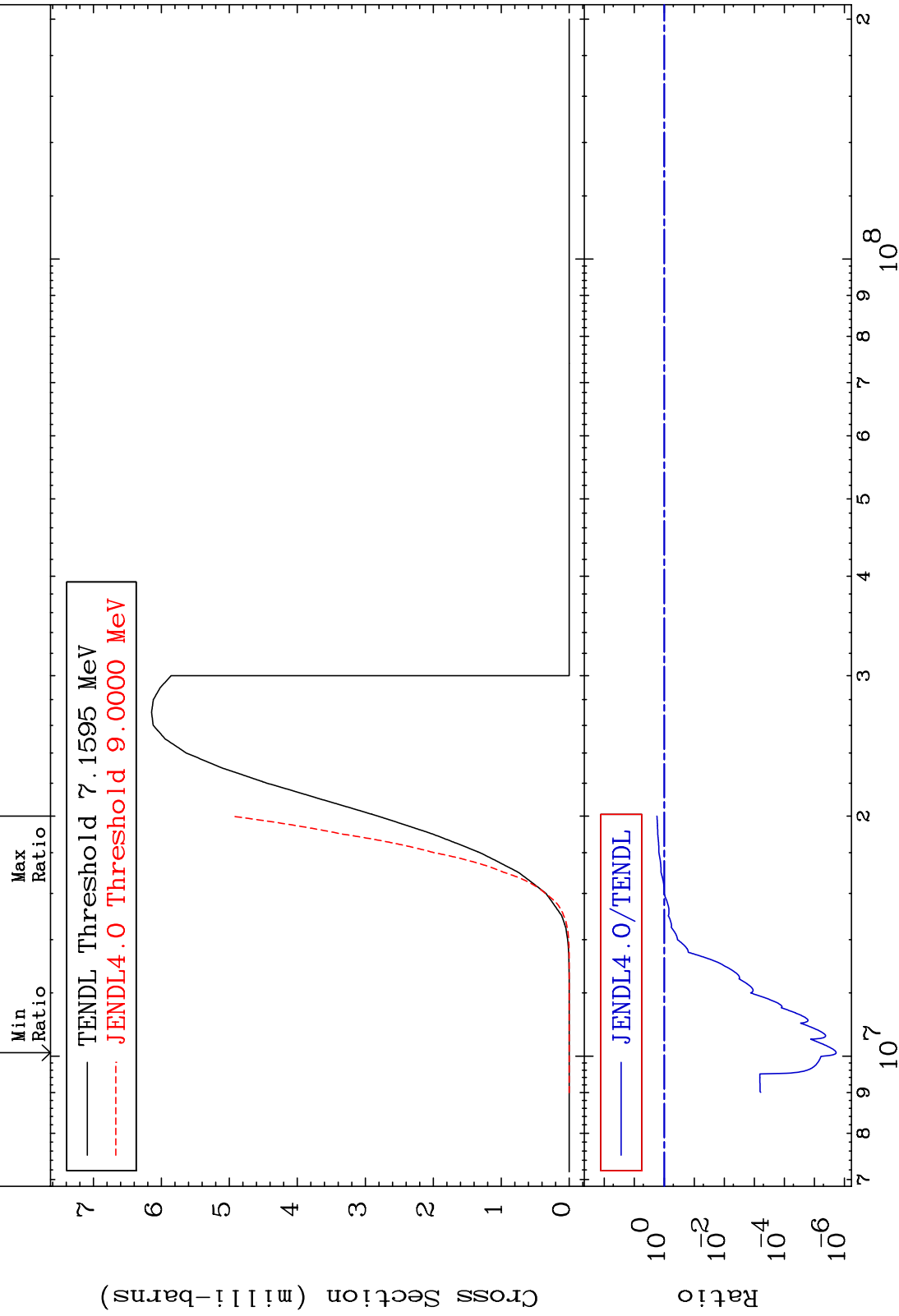
MAT 5331

(n,t)

53-I -129

-100.0 To 76.45 %

Cross Section



32

Incident Energy (eV)

53-I -129

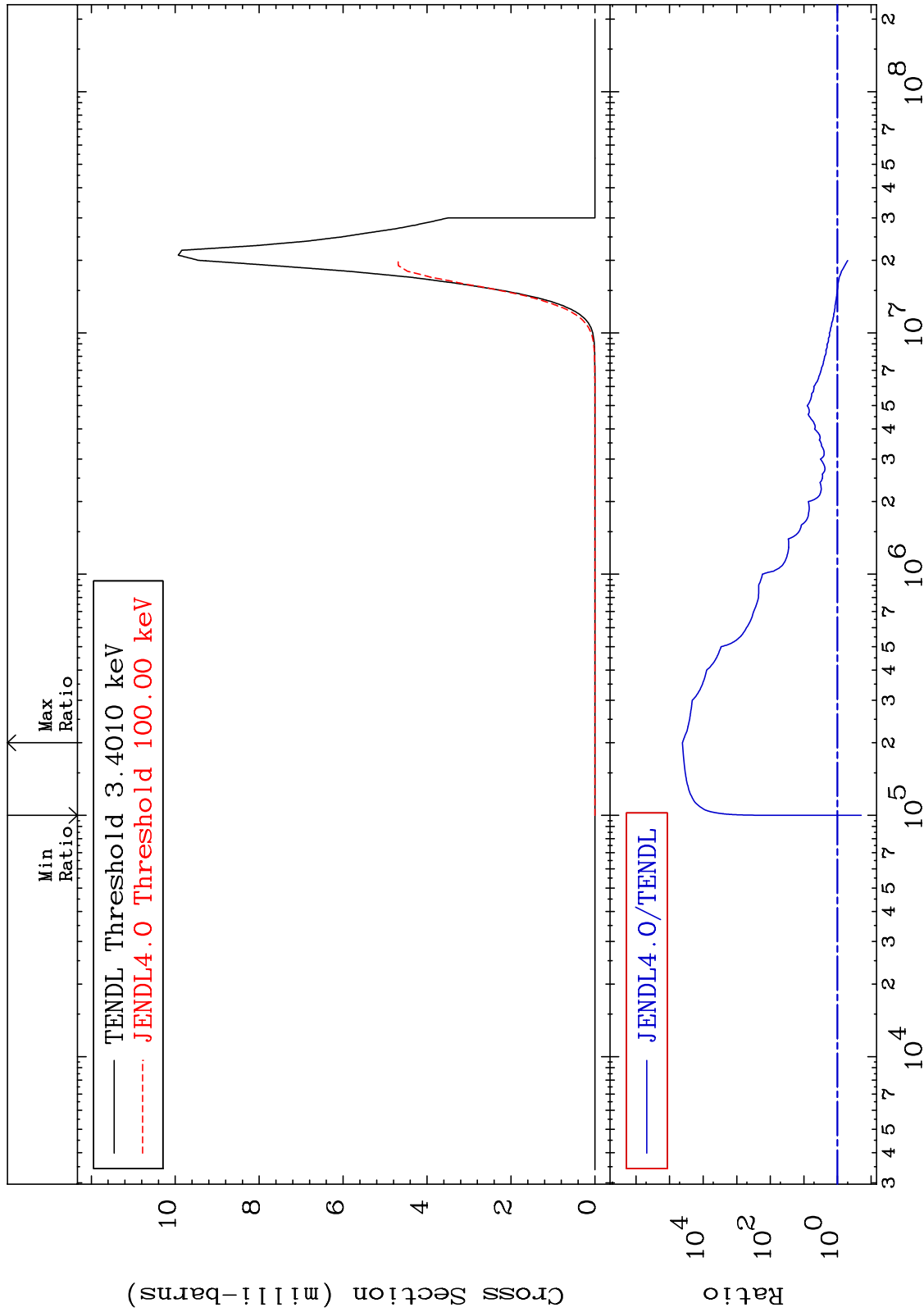
MAT 5331

(n, α)

53-I -129

-80.40 To 9999. %

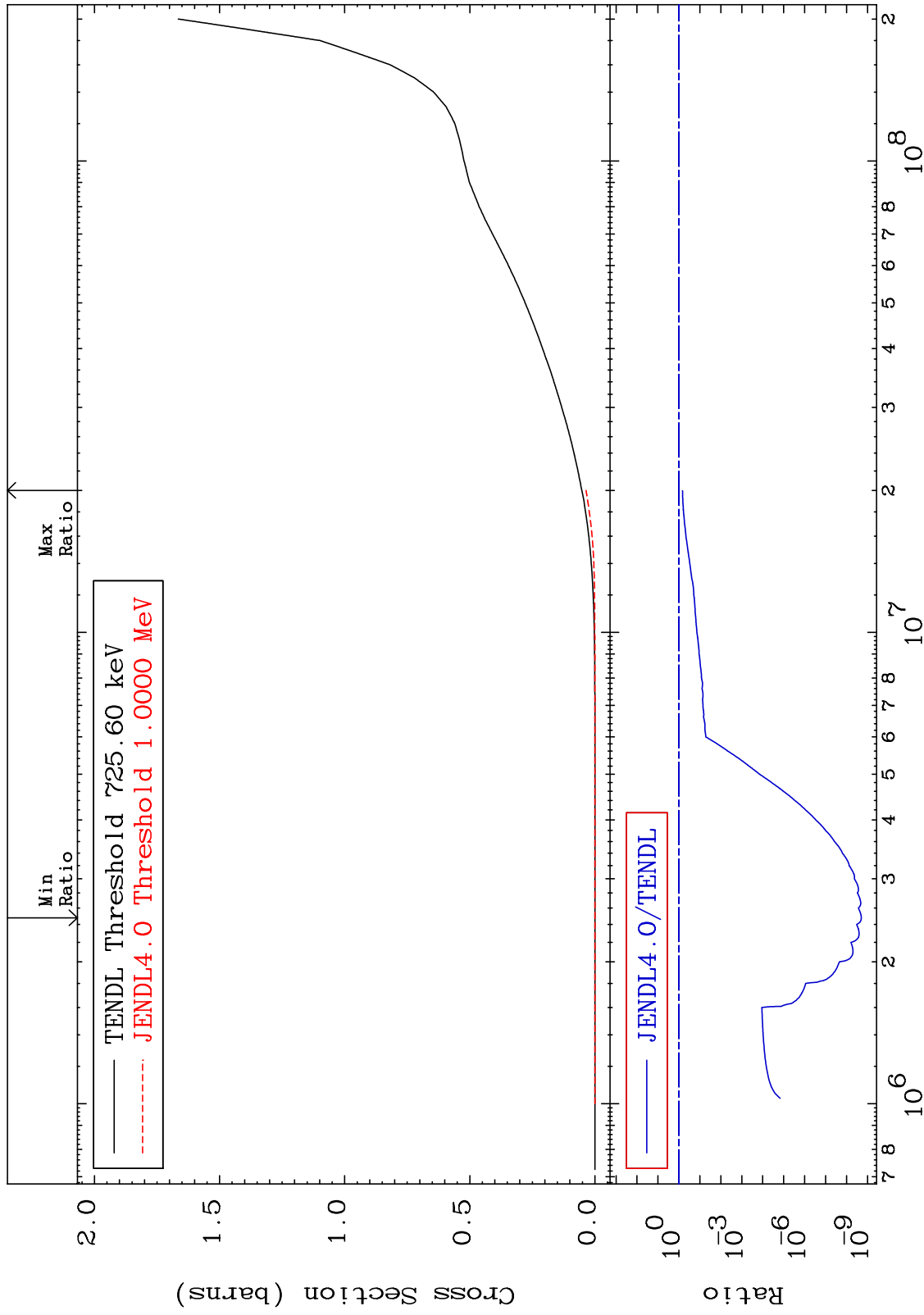
Cross Section



MAT 5331

Hydrogen Production
Cross Section

53-I -129
-100.0 To -32.39%



34

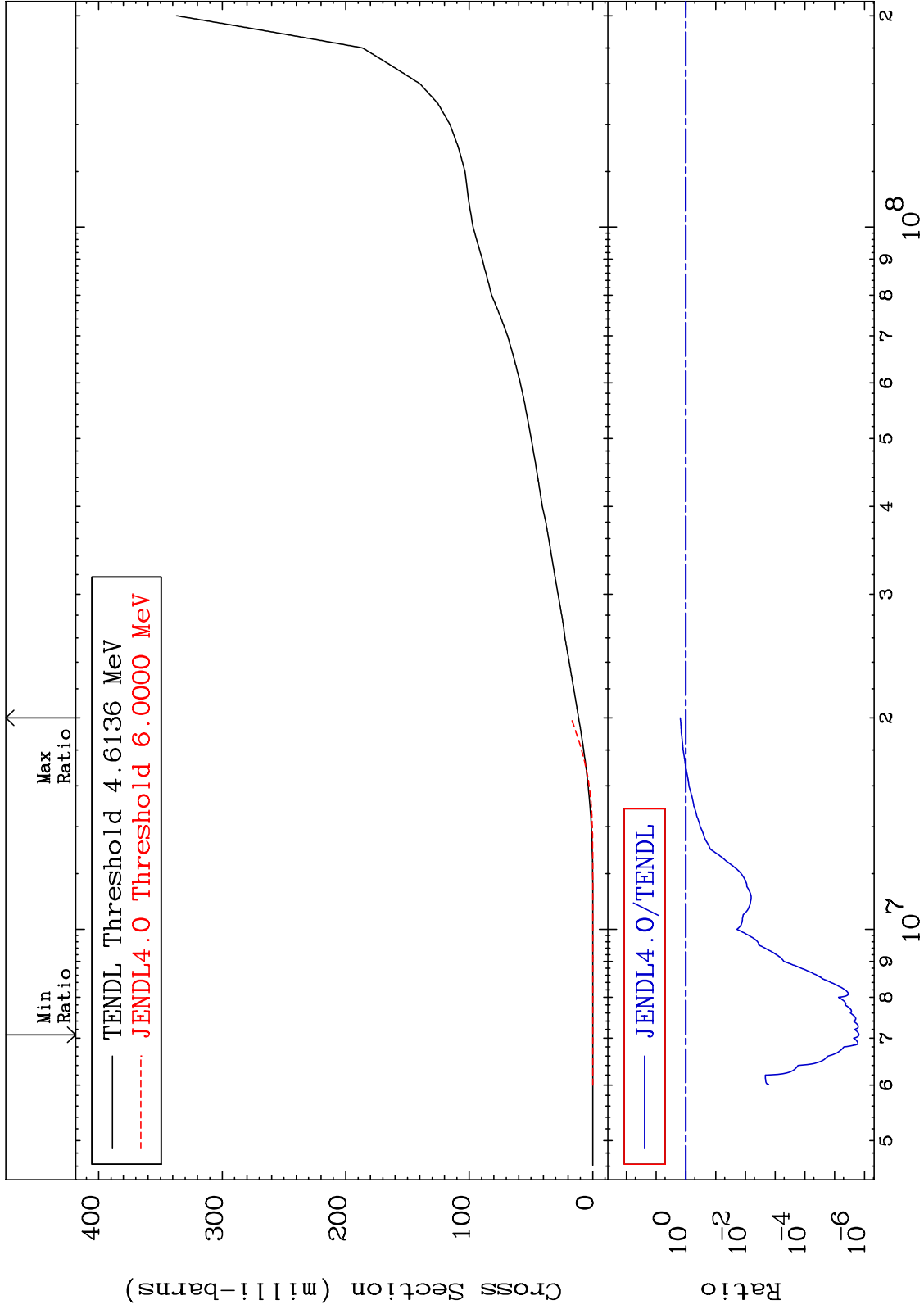
Incident Energy (eV)

53-I -129

MAT 5331

Deuterium Production
Cross Section

53-I -129
-100.0 To 55.47 %



35

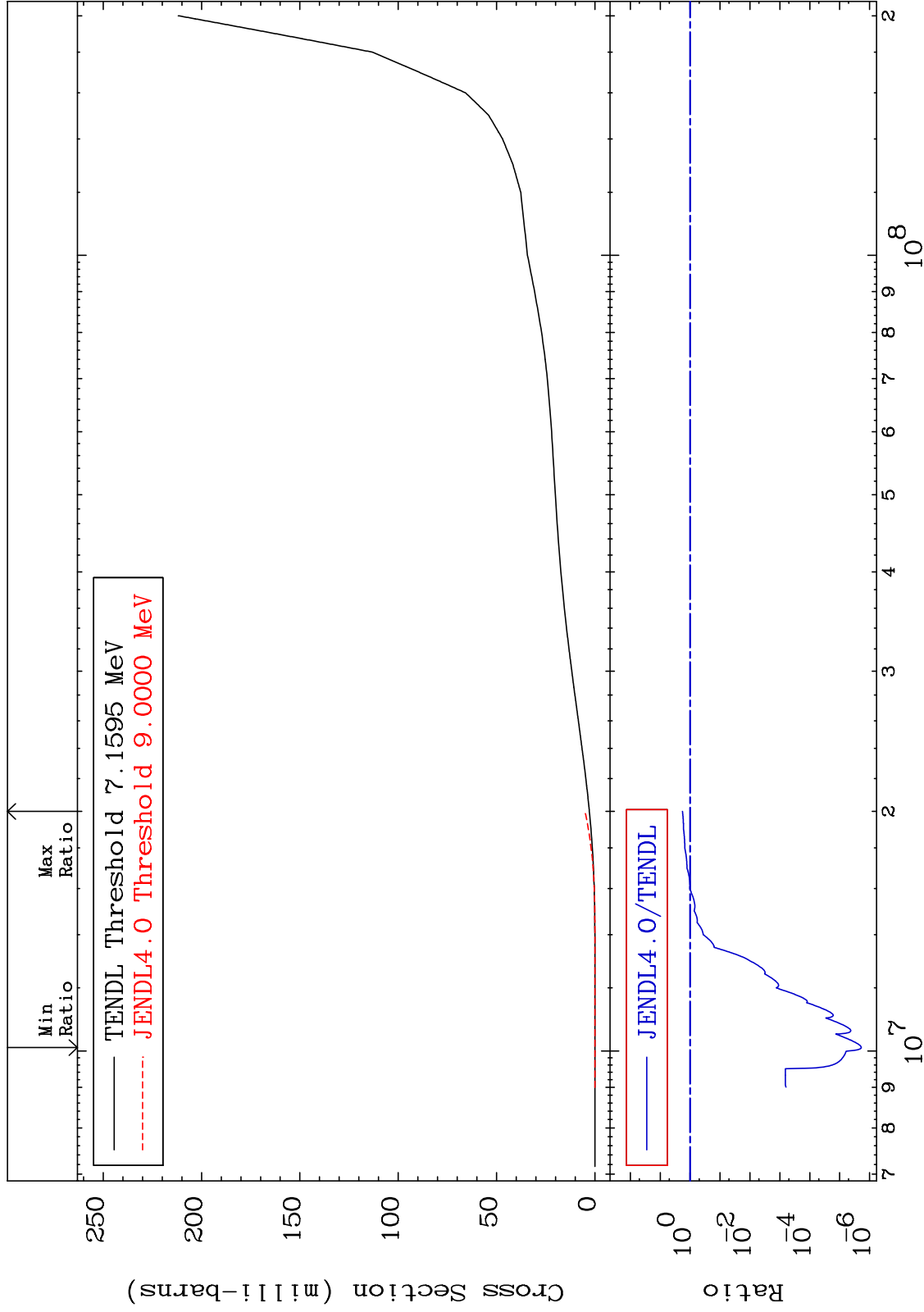
Incident Energy (eV)

53-I -129

MAT 5331

Tritium Production
Cross Section

53-I -129
-100.0 To 80.78 %



36

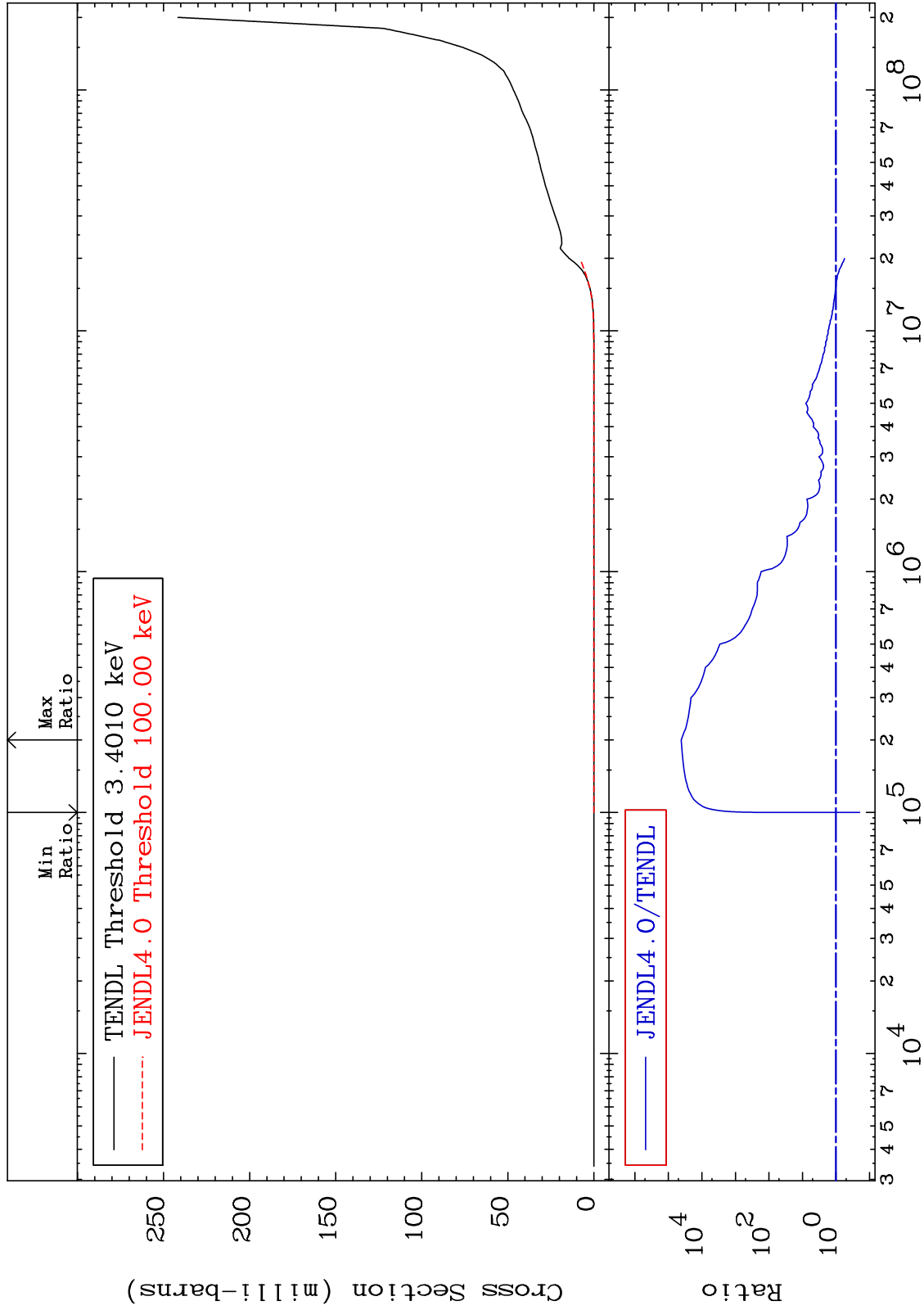
Incident Energy (eV)

53-I -129

MAT 5331

He-4 Production
Cross Section

53-I -129
-80.40 To 9999. %

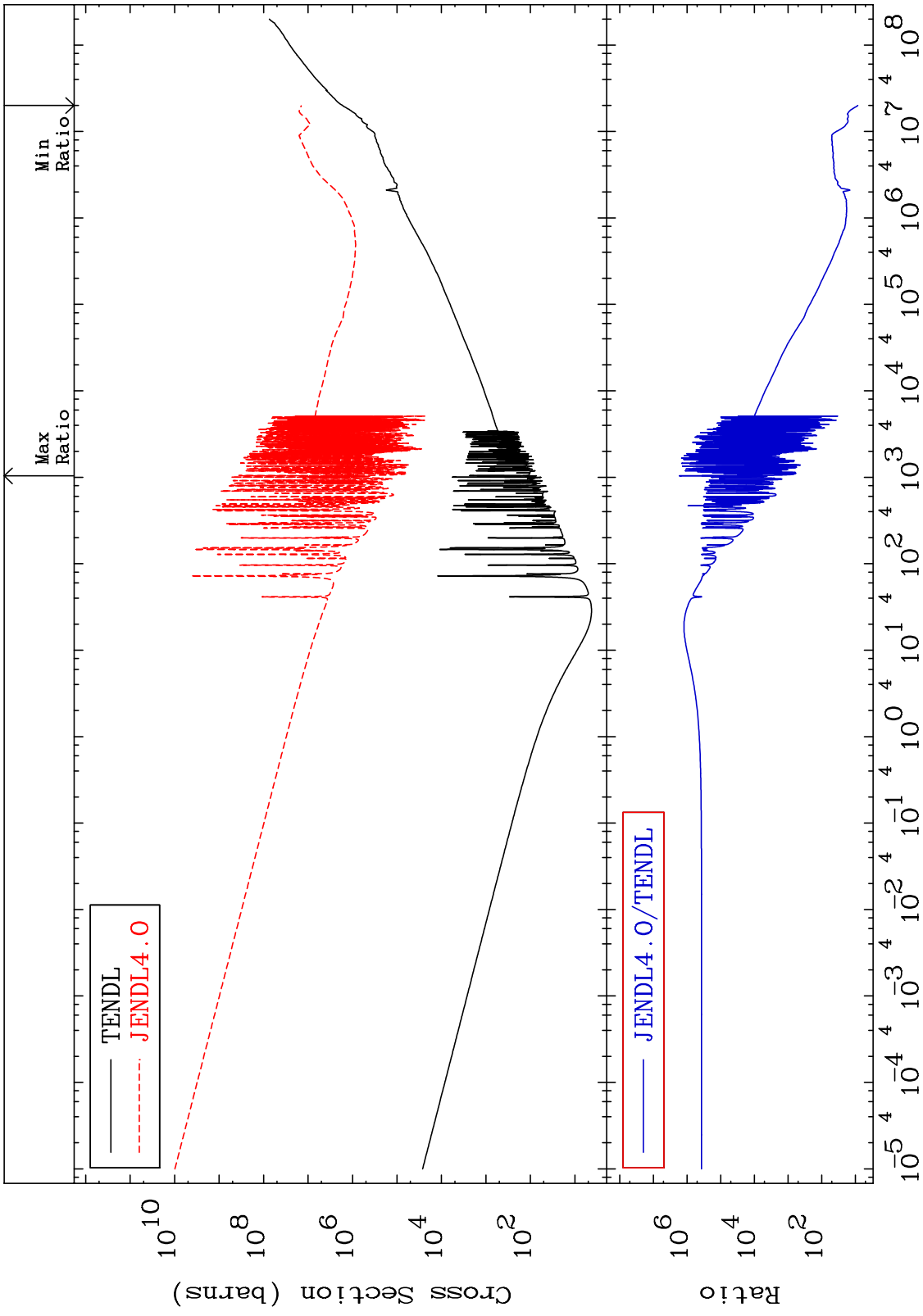


37

Incident Energy (eV)

53-I -129

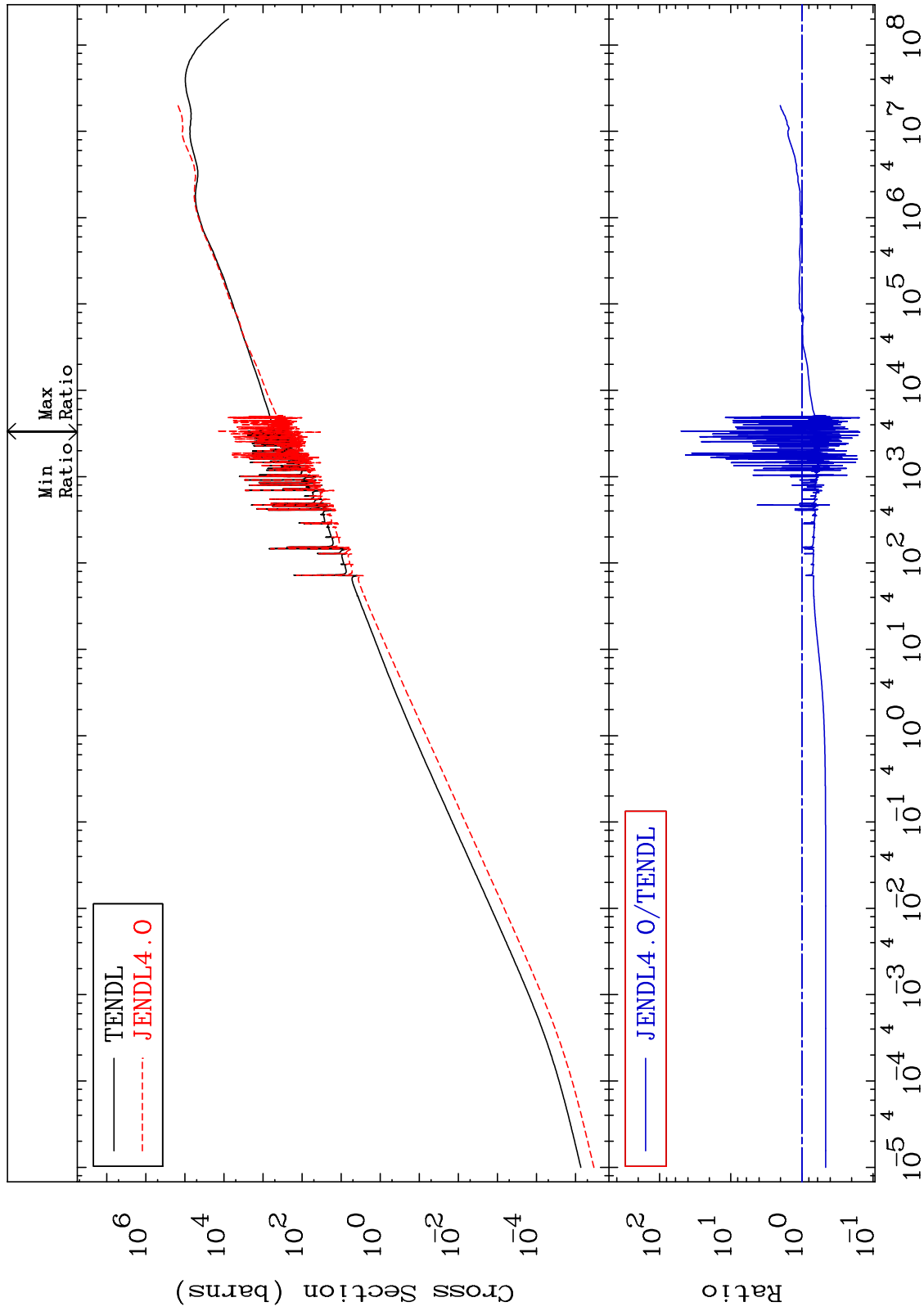
MAT 5331 Kerma total (eV-barns) 53-I -129
 Cross Section 740.1 To 9999. %



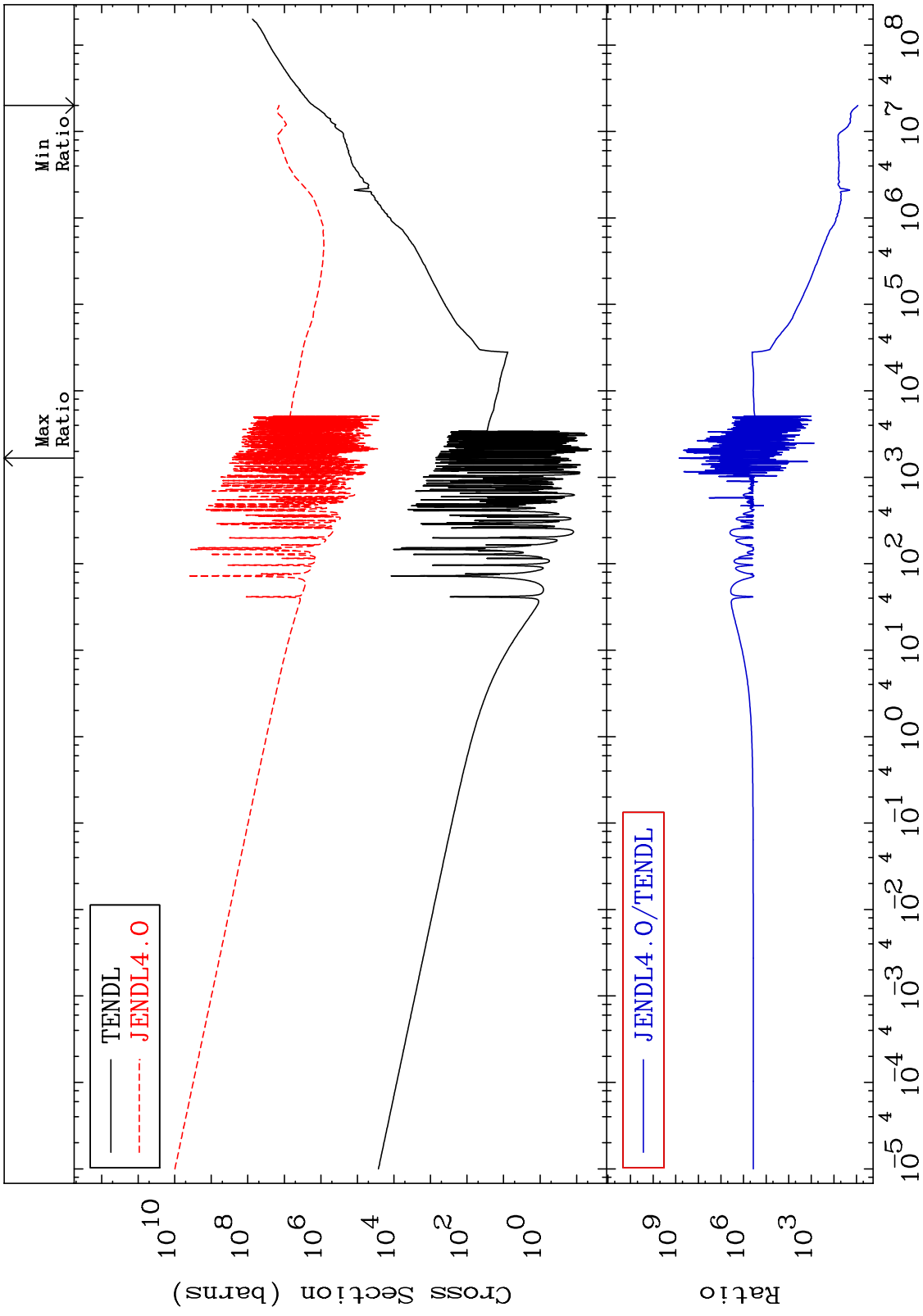
MAT 5331

Kerma elastic
Cross Section

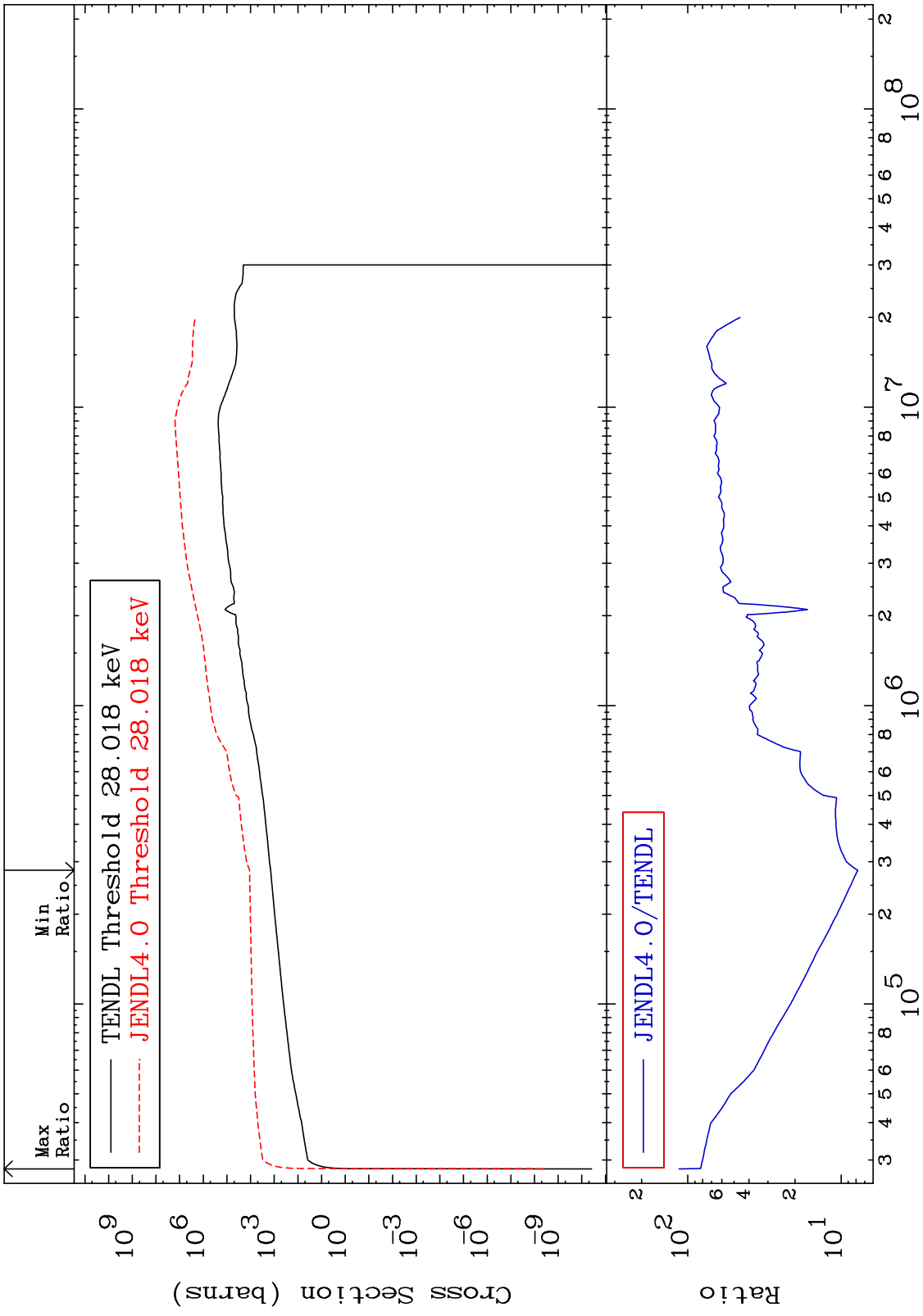
53-I -129
-84.64 To 4868. %



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



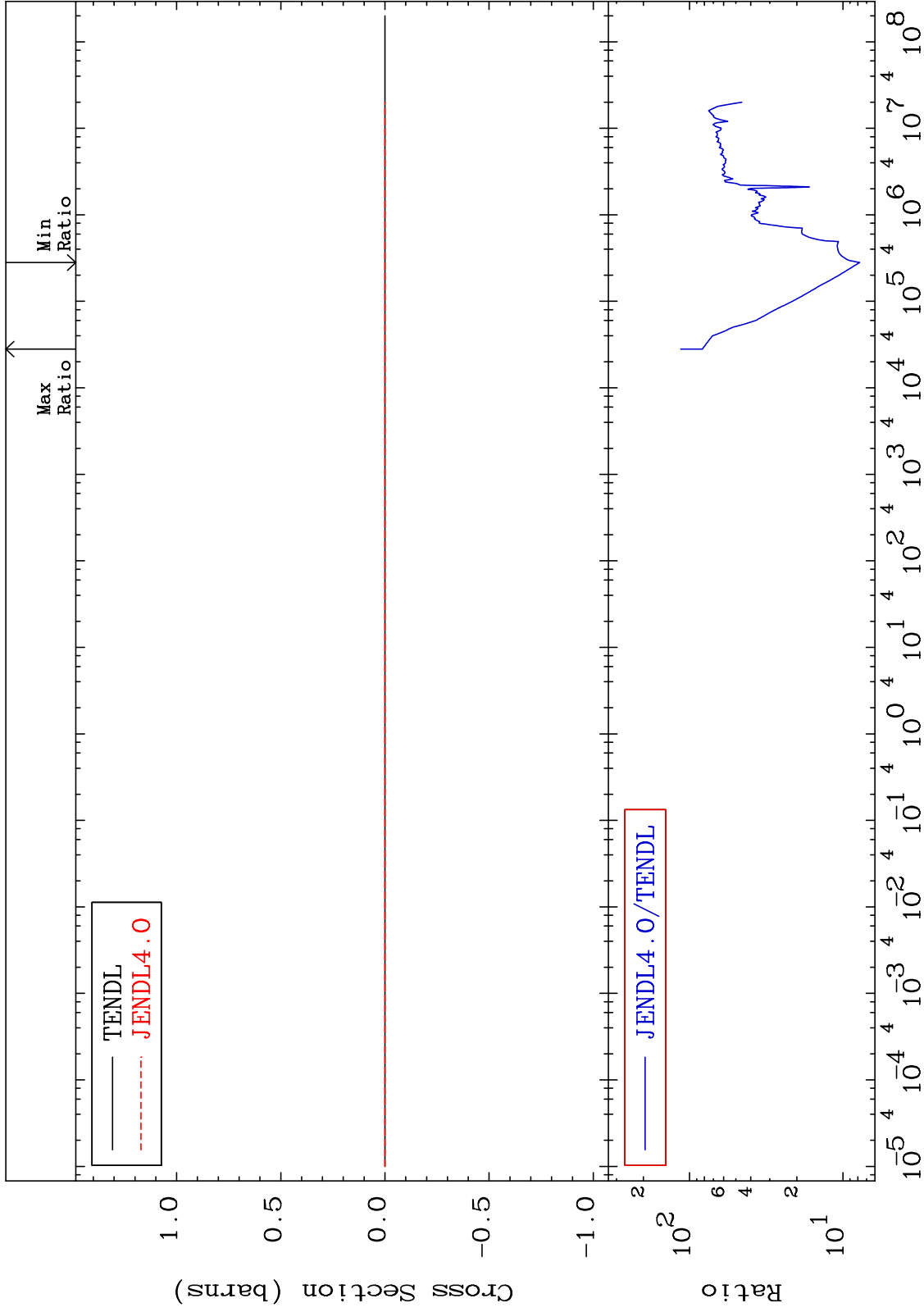
MAT 5331 Kerma inelastic (mt51-91) 53-I -129
 Cross Section 678.2 To 9999. %



MAT 5331

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

53-I -129
678.2 To 9999. %



42

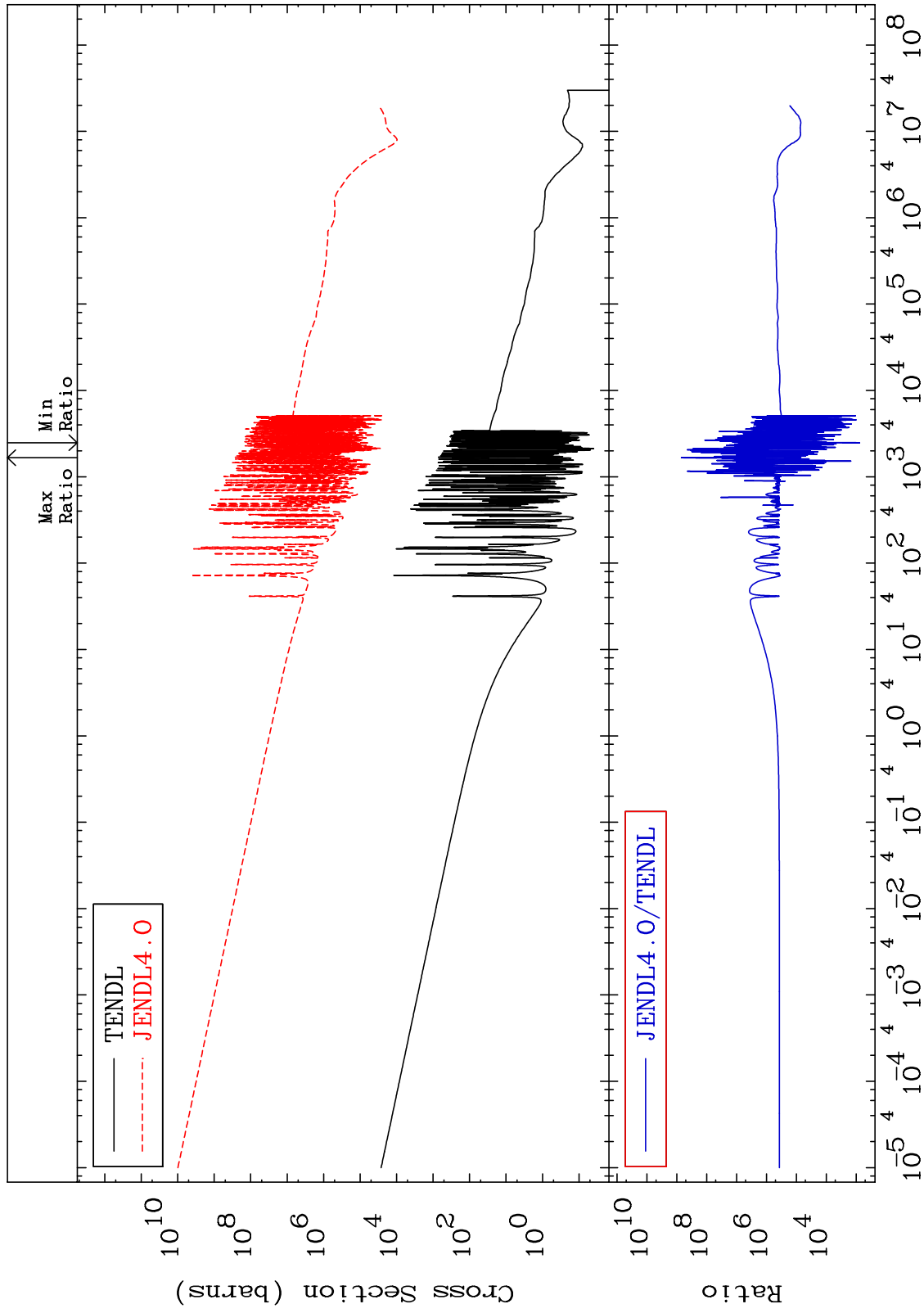
Incident Energy (eV)

53-I -129

MAT 5331

Kerma capture (mt102)
Cross Section

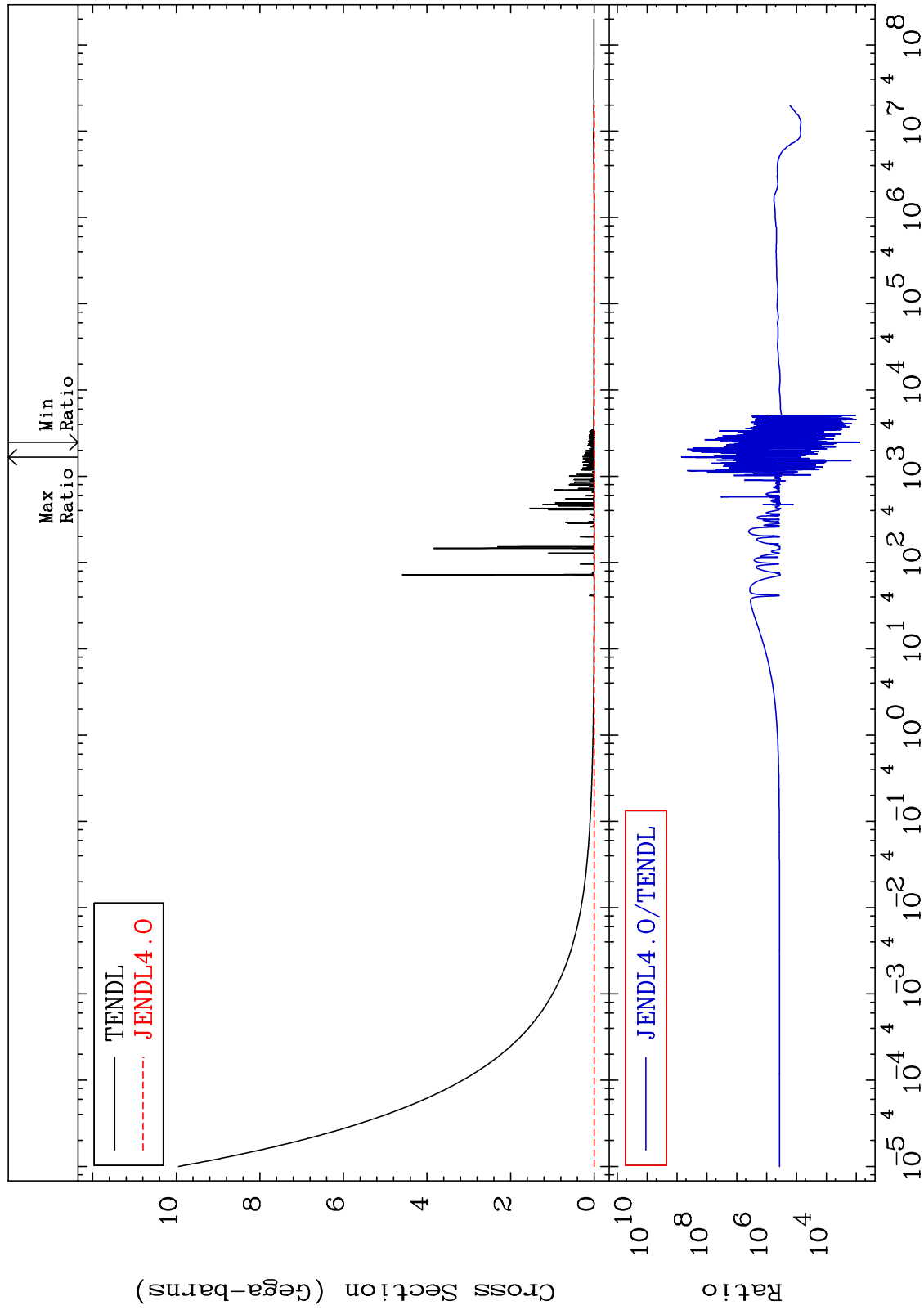
53-I -129
9999. To 9999. %



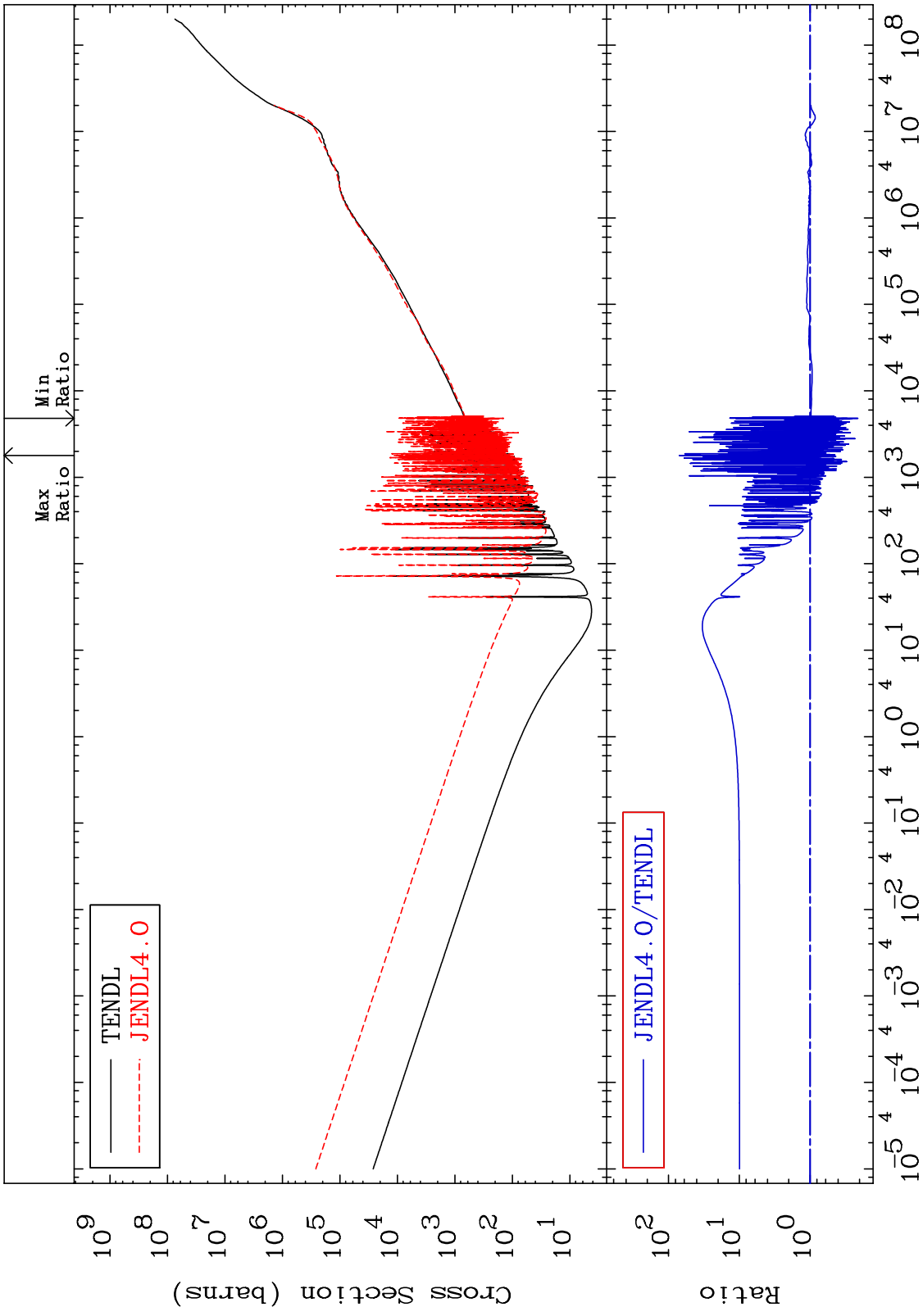
MAT 5331

Total photon (eV-barns)
Cross Section

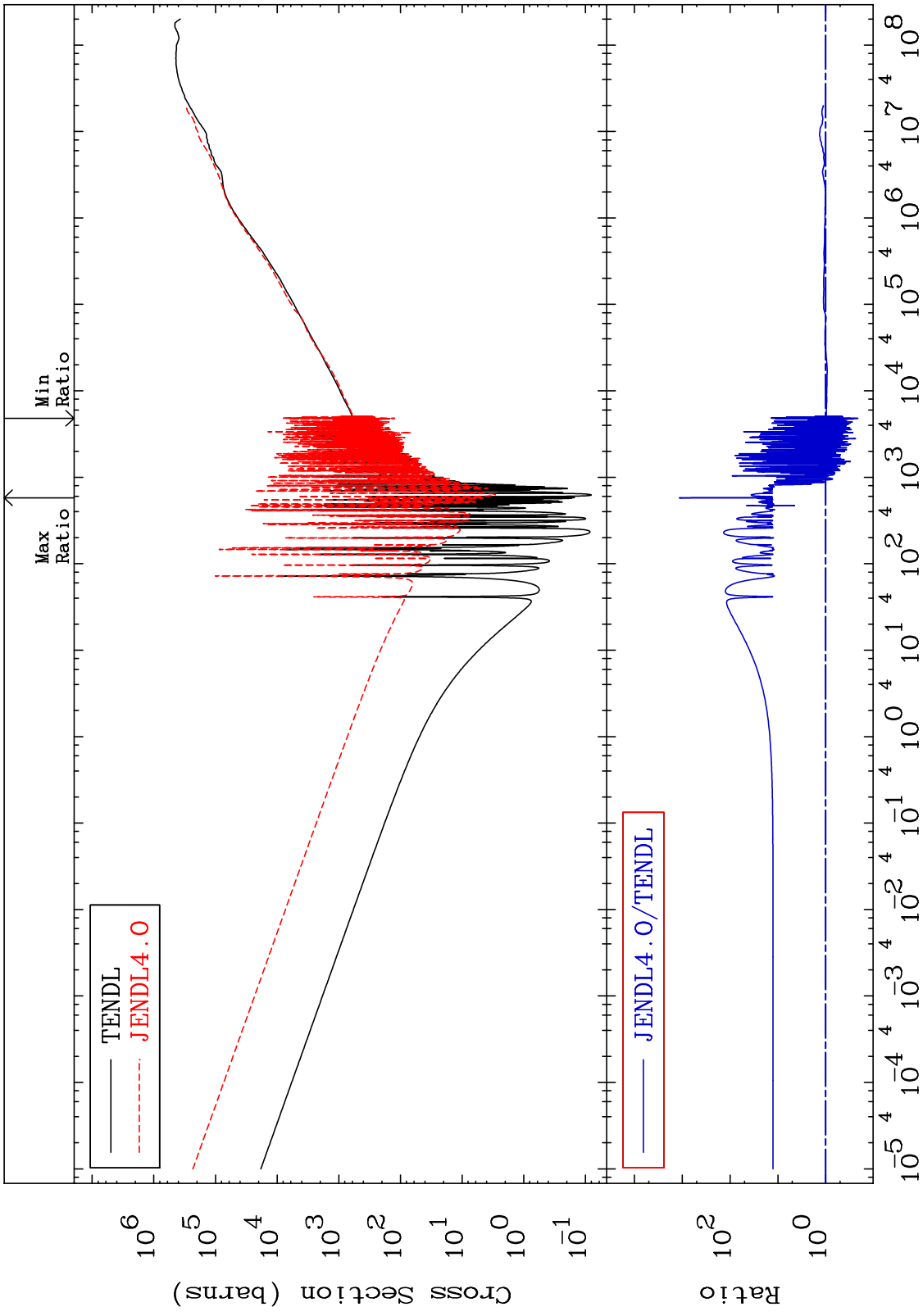
53-I -129
9999. To 9999. %



MAT 5331 Total kinematic kerma (high limit) 53-I -129
Cross Section -78.90 To 7013. %



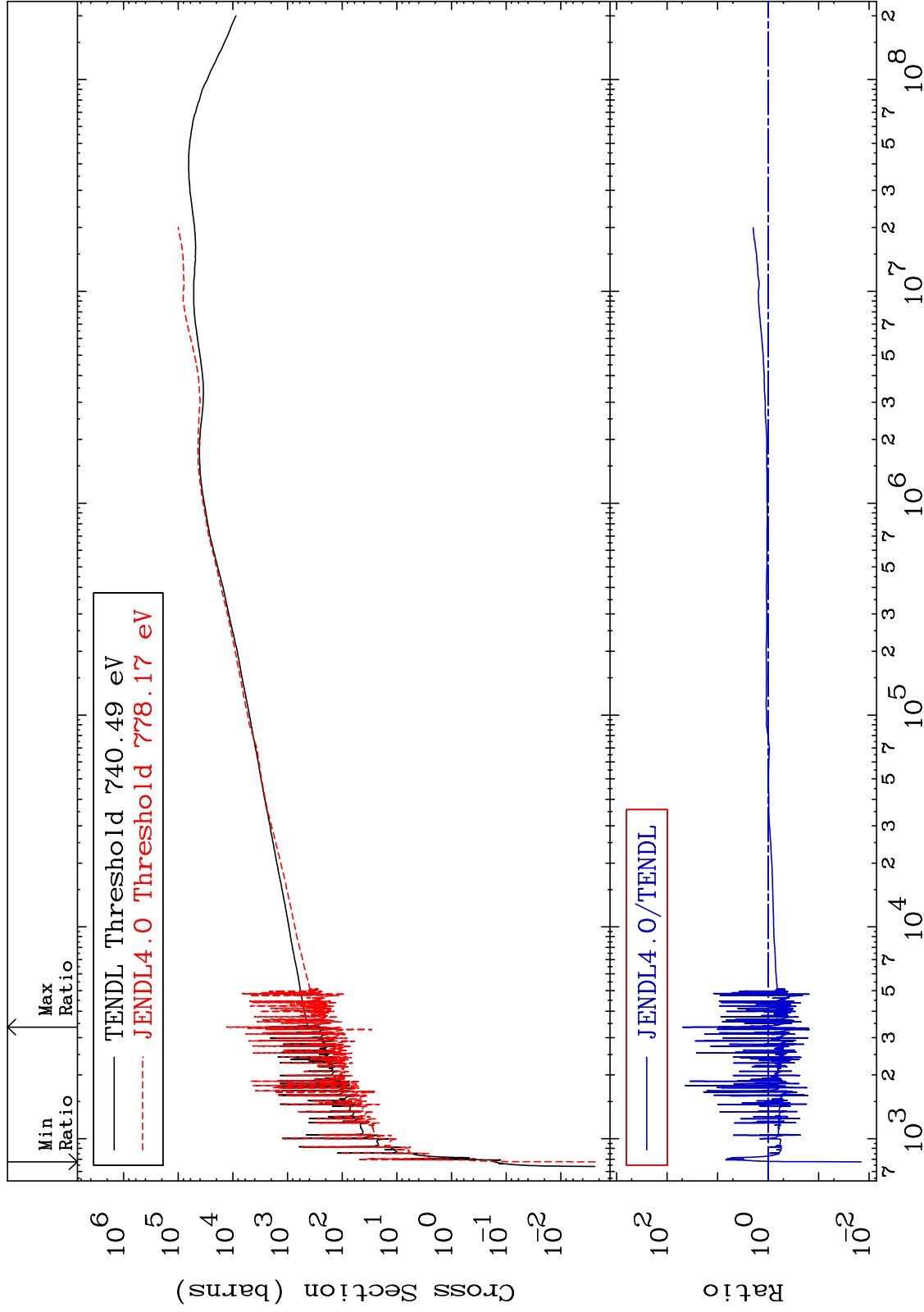
MAT 5331 Dpa total (eV-barns) 53-I -129
 Cross Section -78.64 To 9999. %



MAT 5331

Dpa elastic (mt2)
Cross Section

53-I -129
-98.57 To 4855. %



47

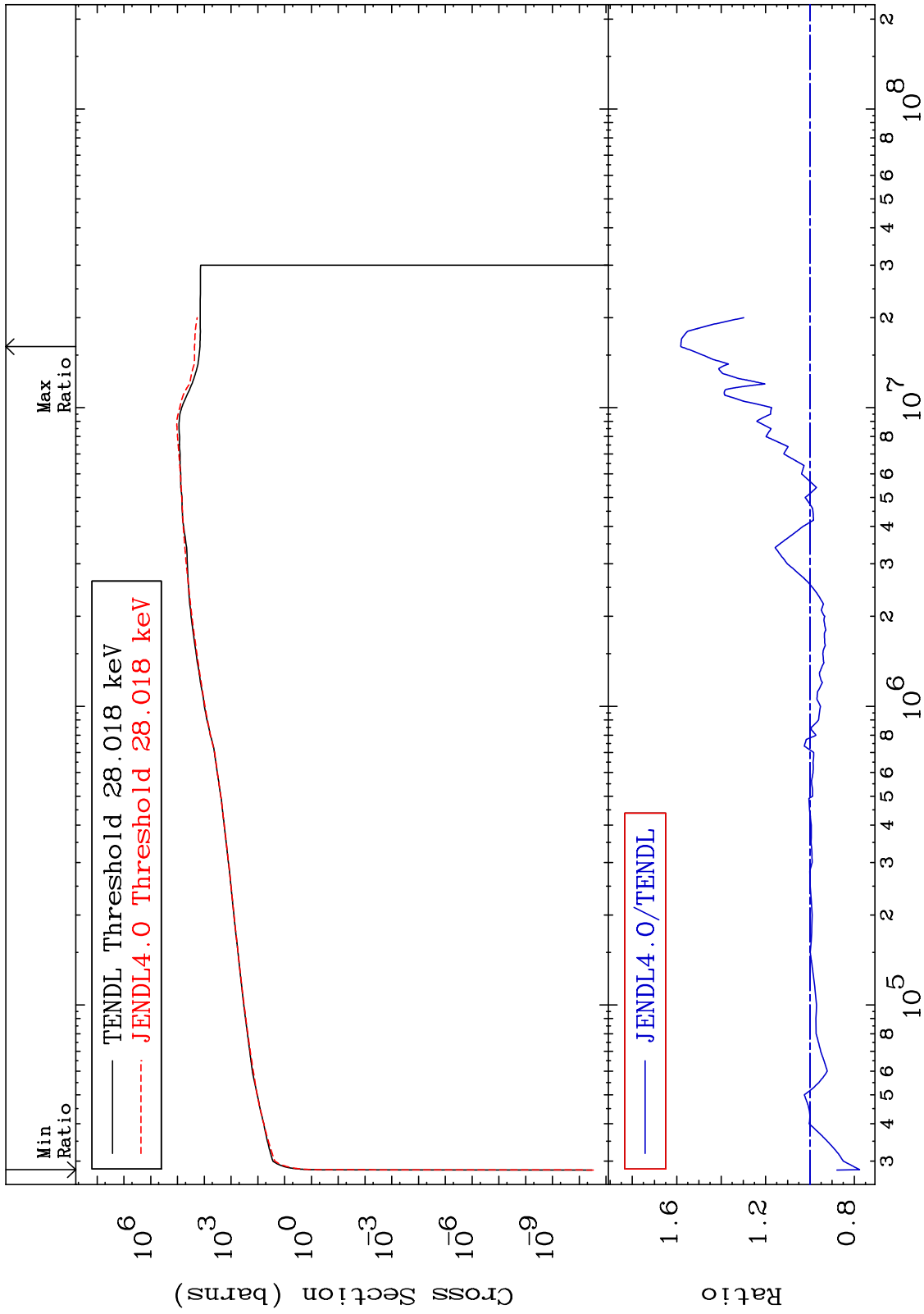
Incident Energy (eV)

53-I -129

MAT 5331

Dpa inelastic (mt51-91)
Cross Section

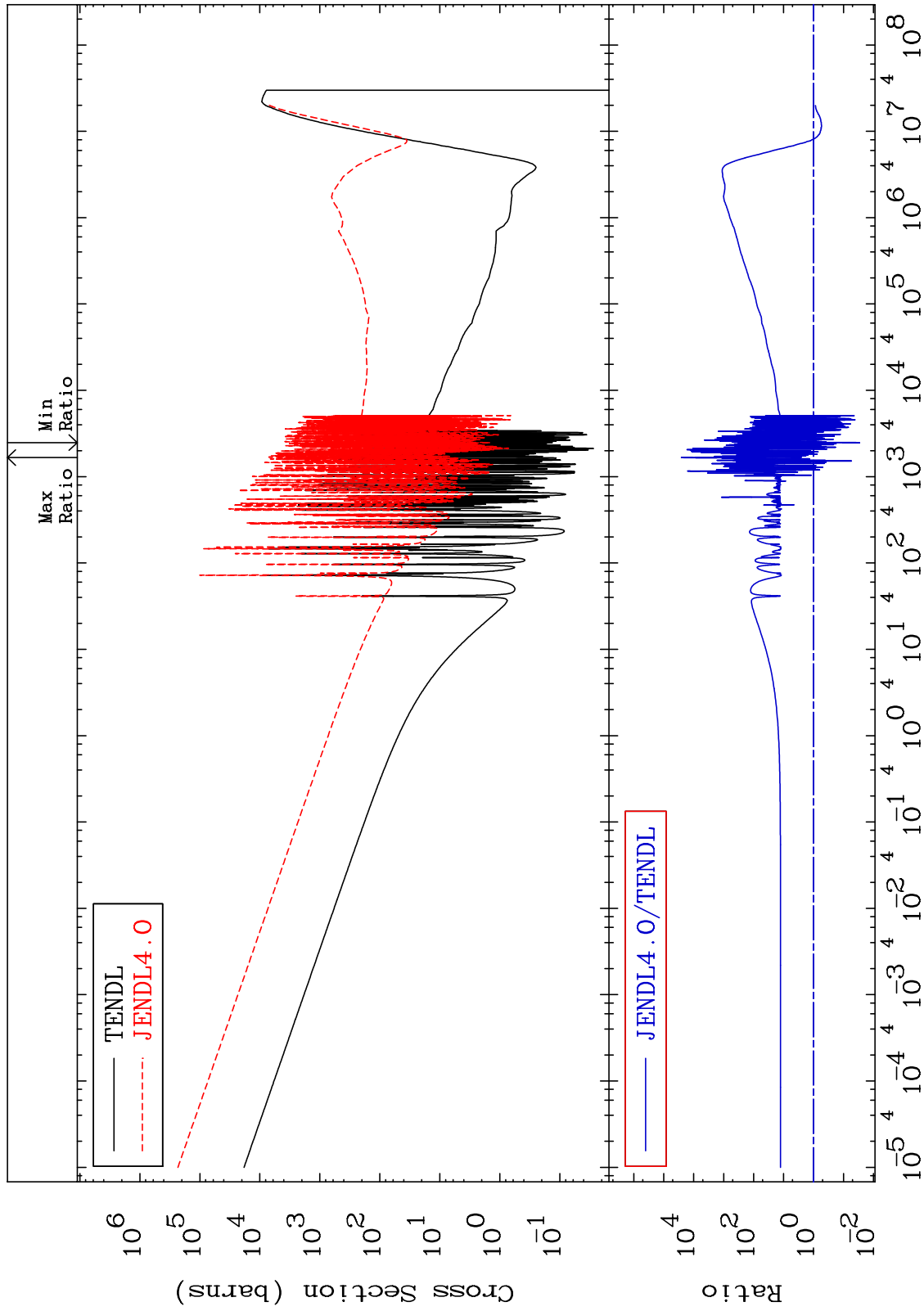
53-I -129
-22.38 To 58.15 %



MAT 5331

Dpa disappearance (mt102 -120)
Cross Section

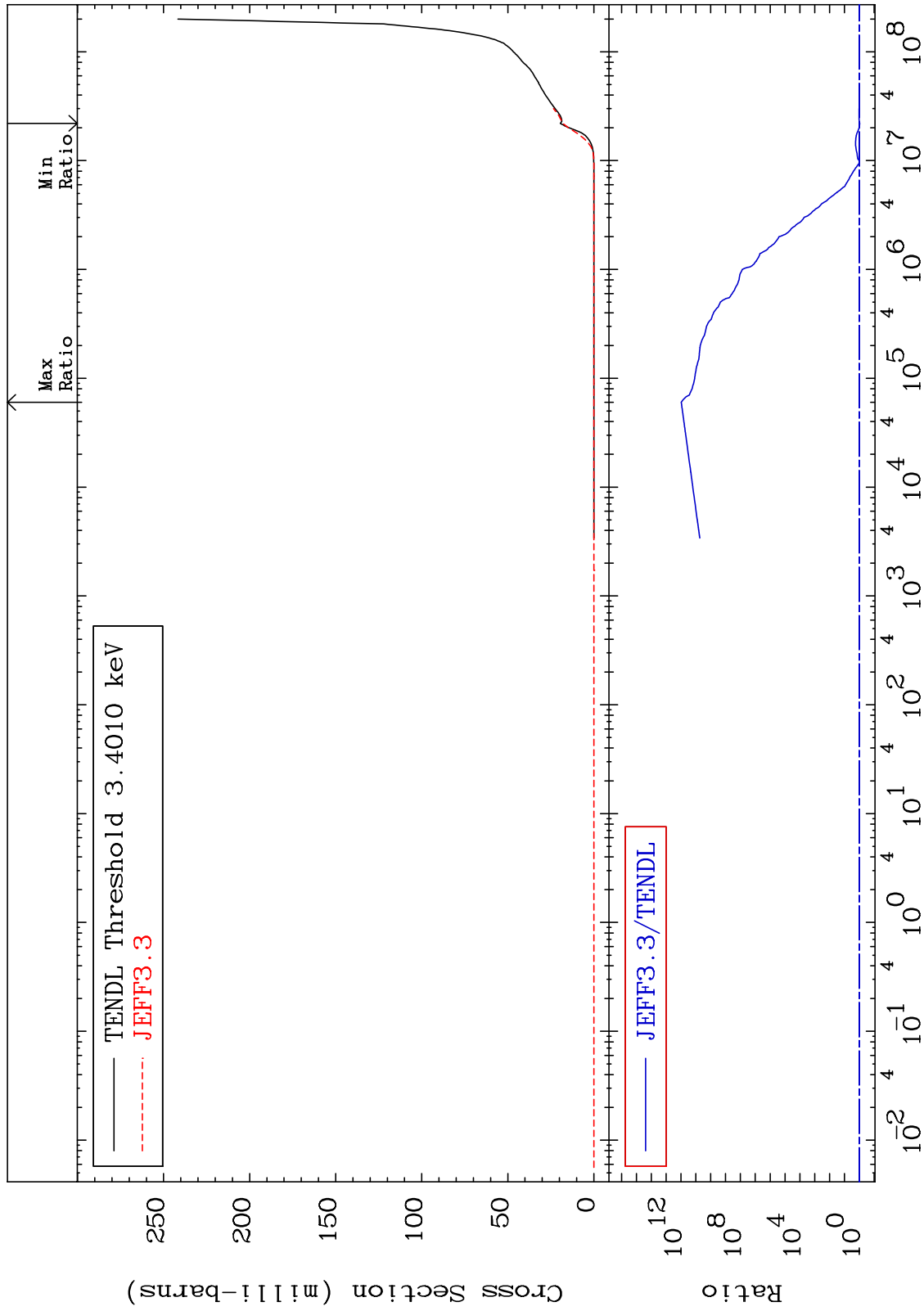
53-I -129
-97.14 To 9999. %



MAT 5331

He-4 Production
Cross Section

53-I -129
-7.333 To 9999. %

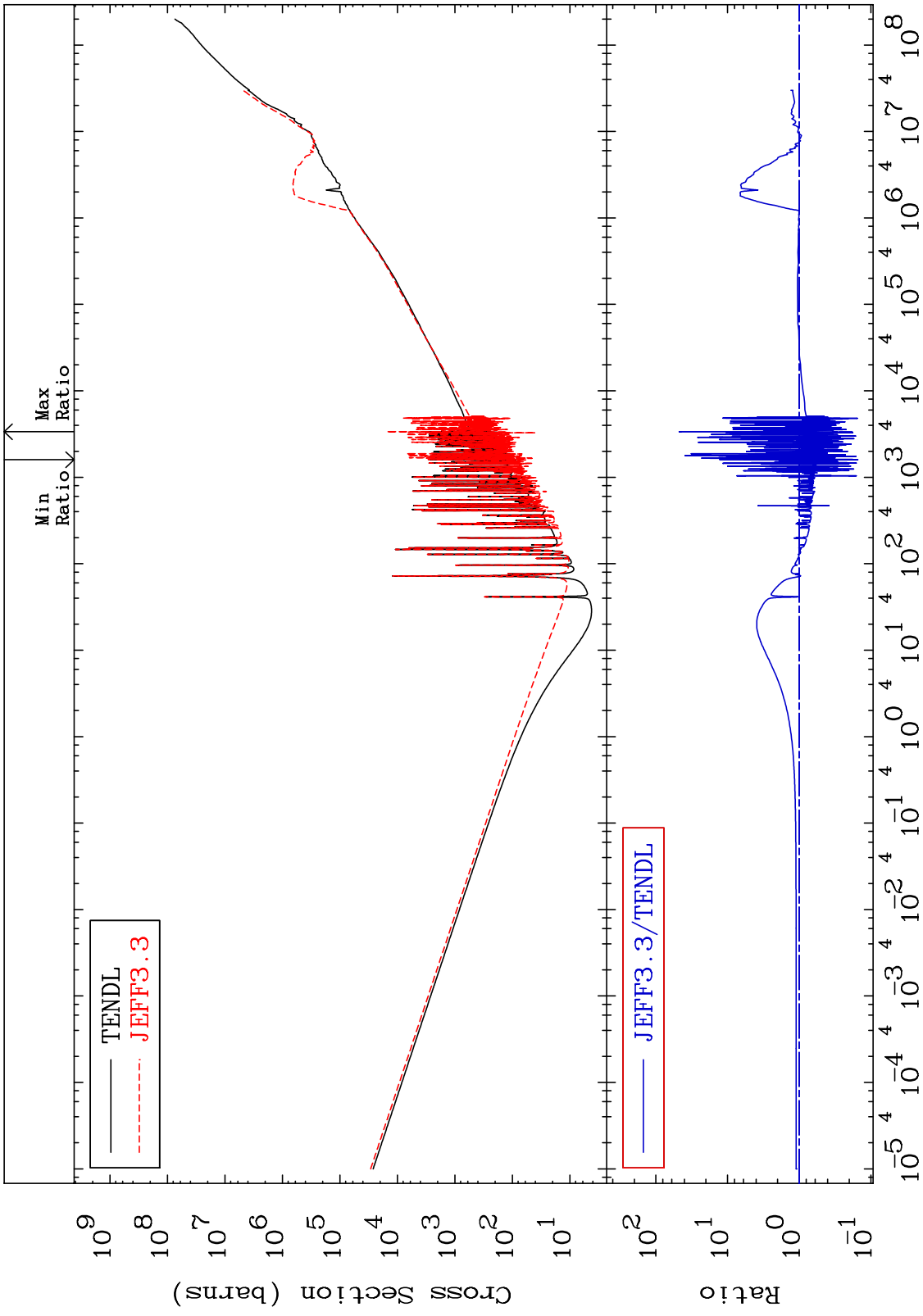


50

Incident Energy (eV)

53-I -129

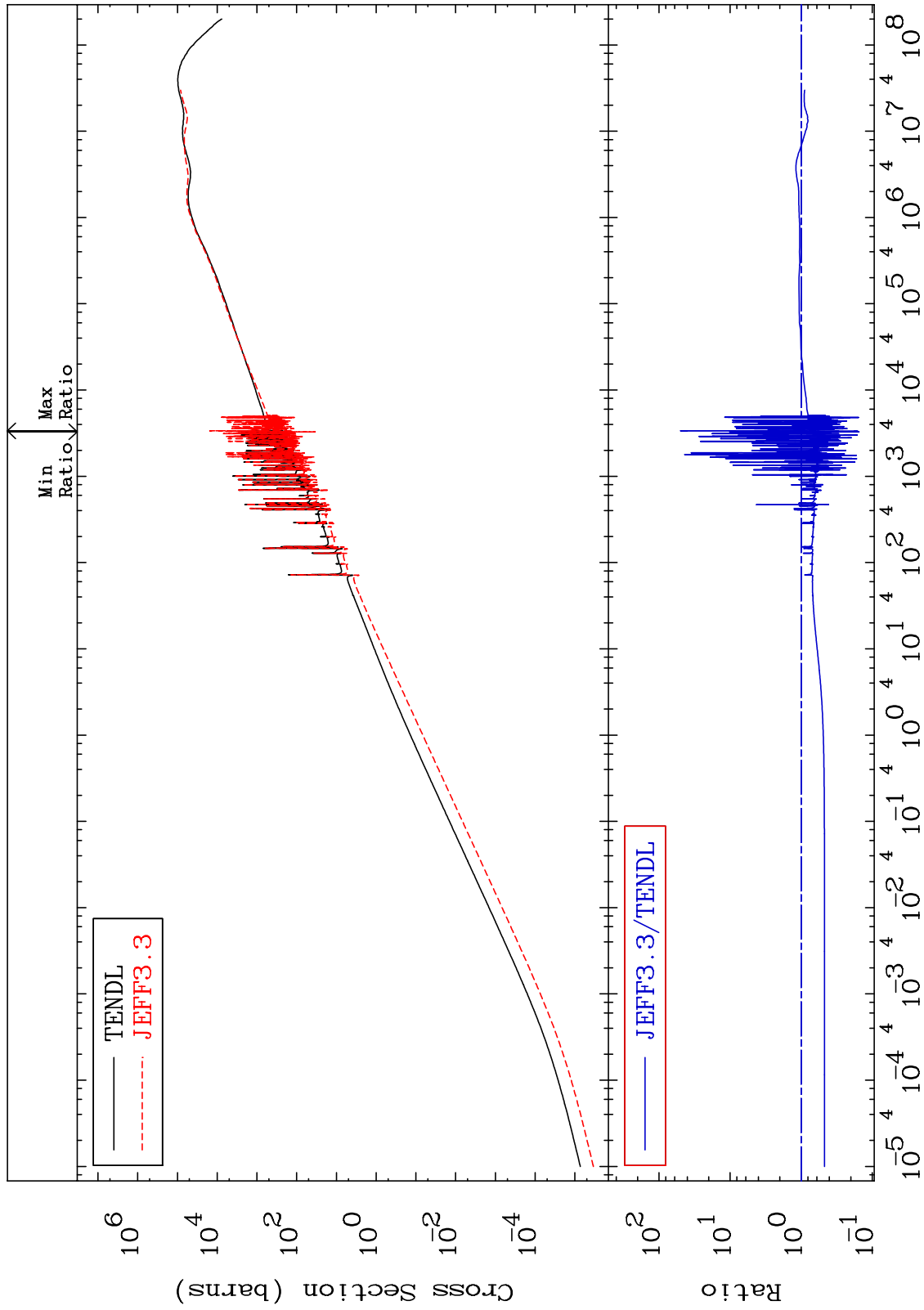
MAT 5331 Kerma total (eV-barns) 53-I -129
 Cross Section -84.80 To 4648. %



MAT 5331

Kerma elastic
Cross Section

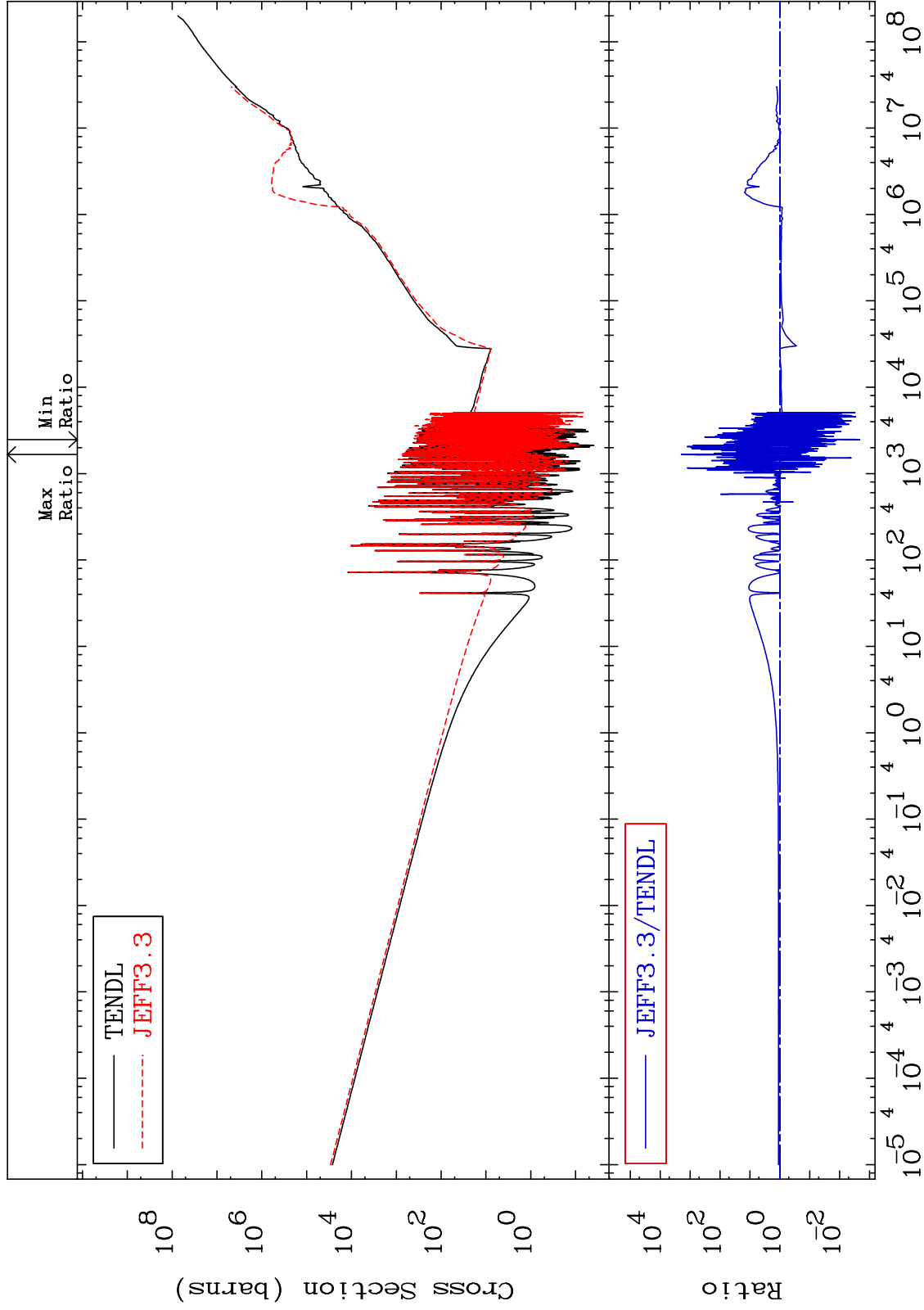
53-I -129
-84.67 To 4854. %



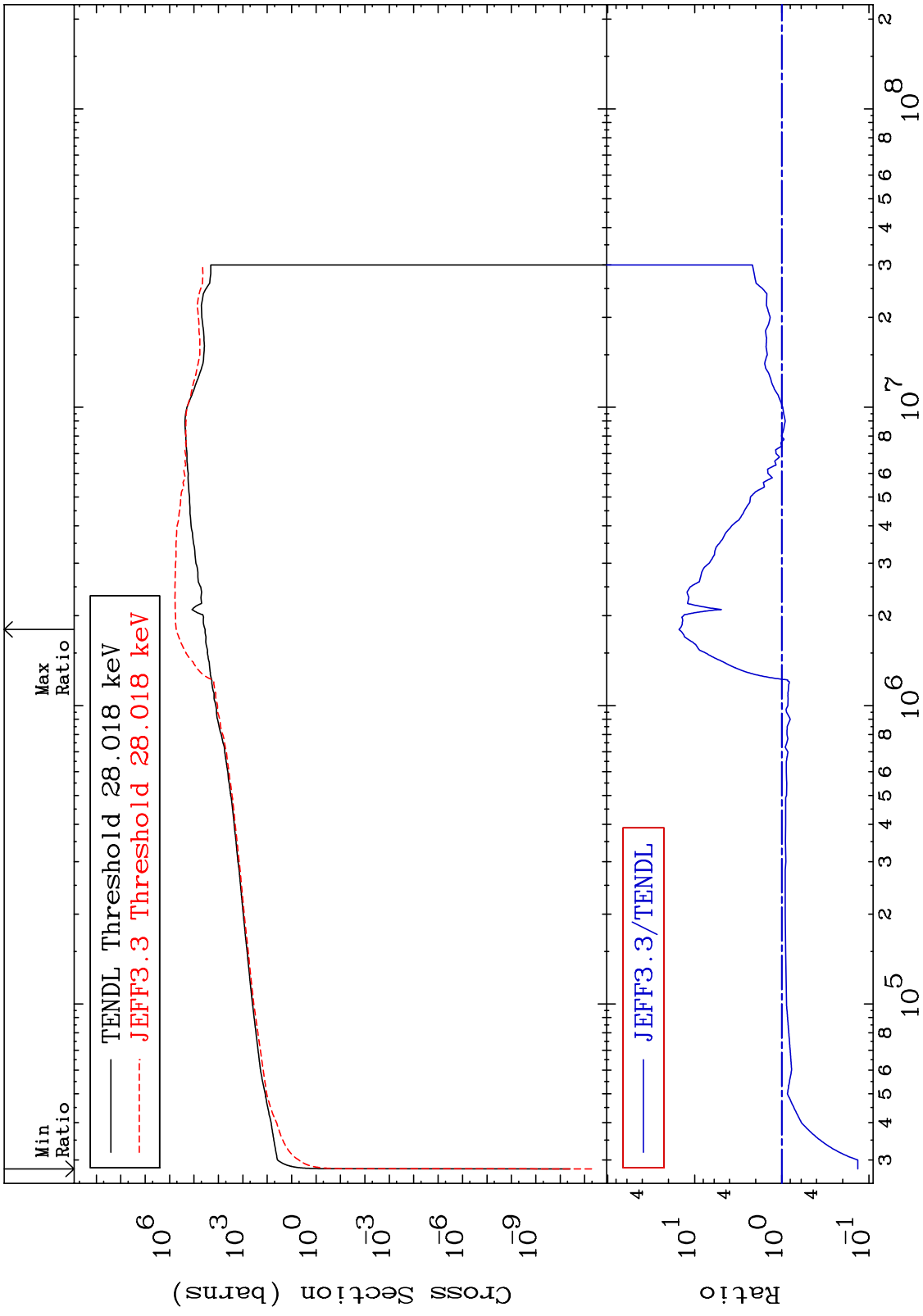
MAT 5331

Kerma non-elastic (all but mt2)
Cross Section

53-I -129
-99.79 To 9999. %



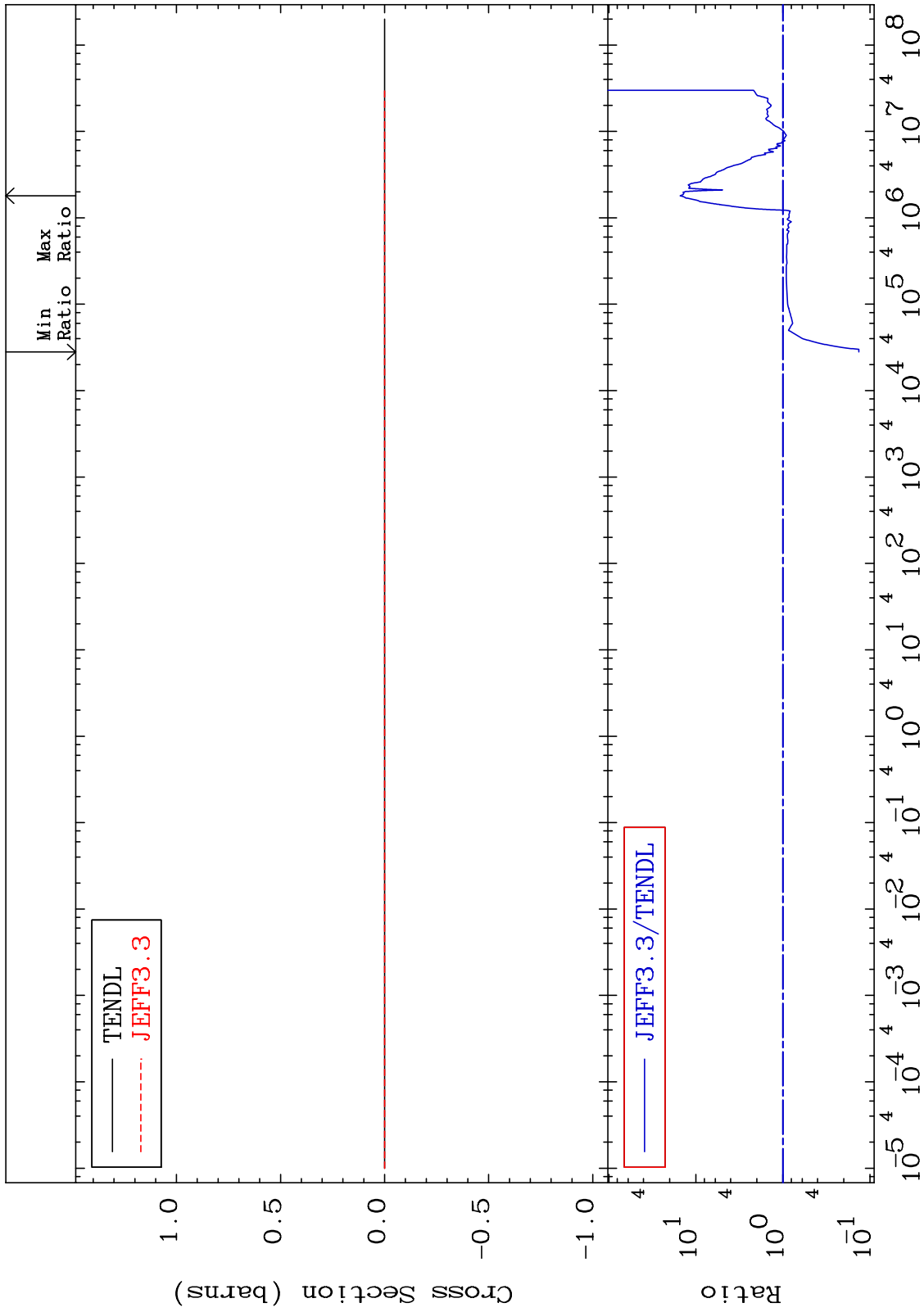
MAT 5331 Kerma inelastic (mt51-91) 53-I -129
 Cross Section -86.60 To 1415. %



MAT 5331

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

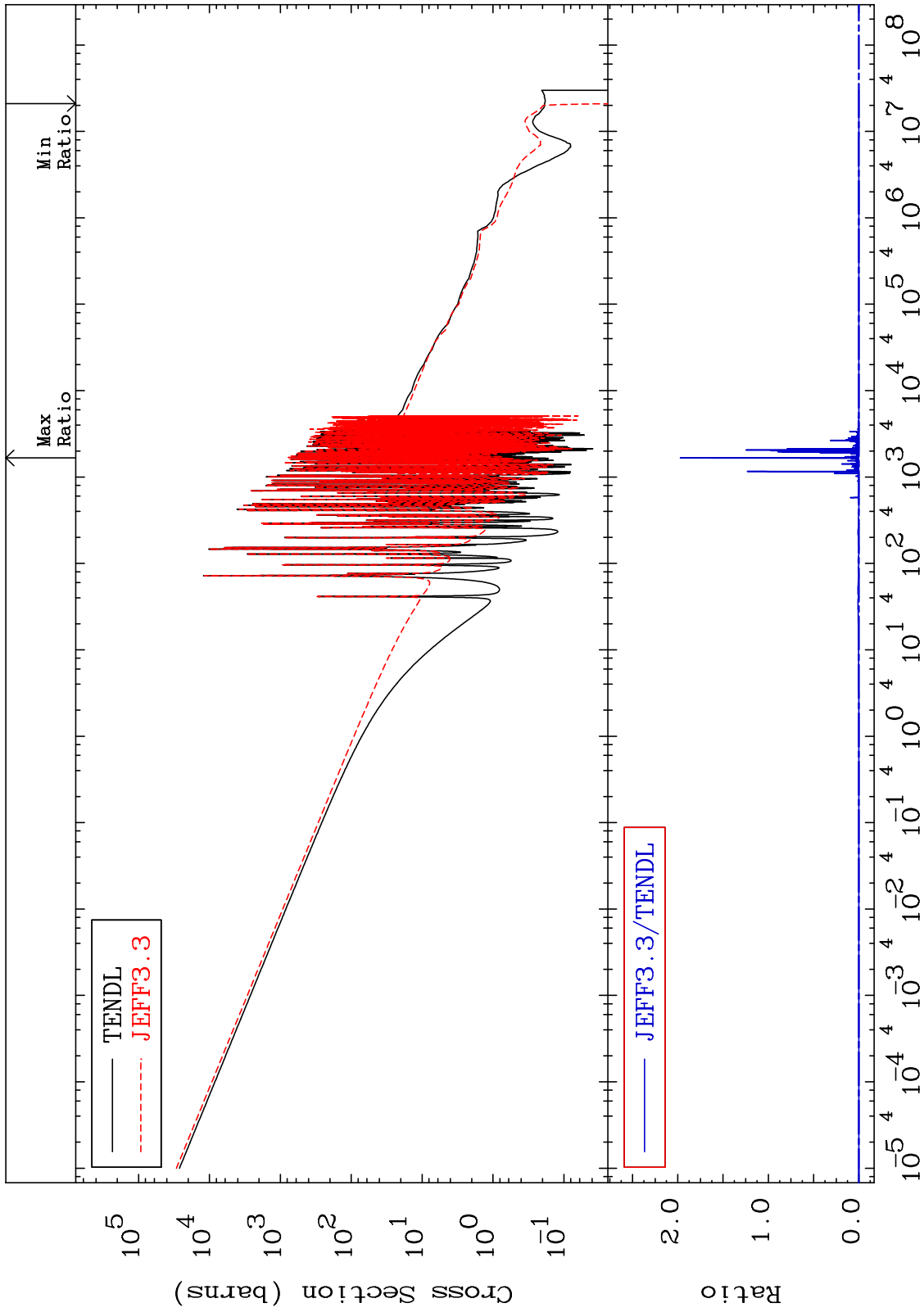
53-I -129
-86.60 To 1415. %



MAT 5331

Kerma capture (mt102)
Cross Section

53-I -129
-100.0 To 9999. %



56

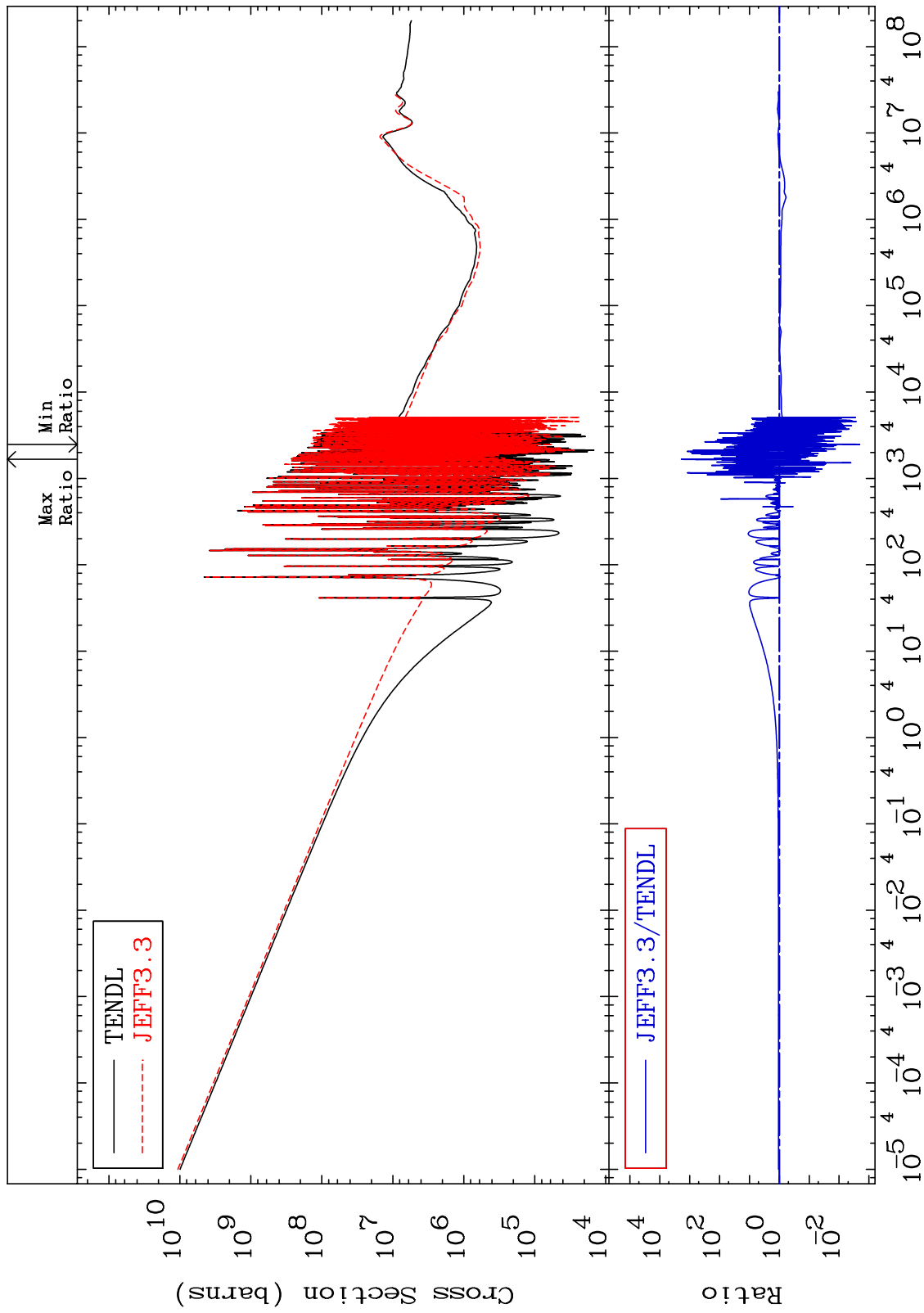
Incident Energy (eV)

53-I -129

MAT 5331

Total photon (eV-barns)
Cross Section

53-I -129
-99.80 To 9999. %

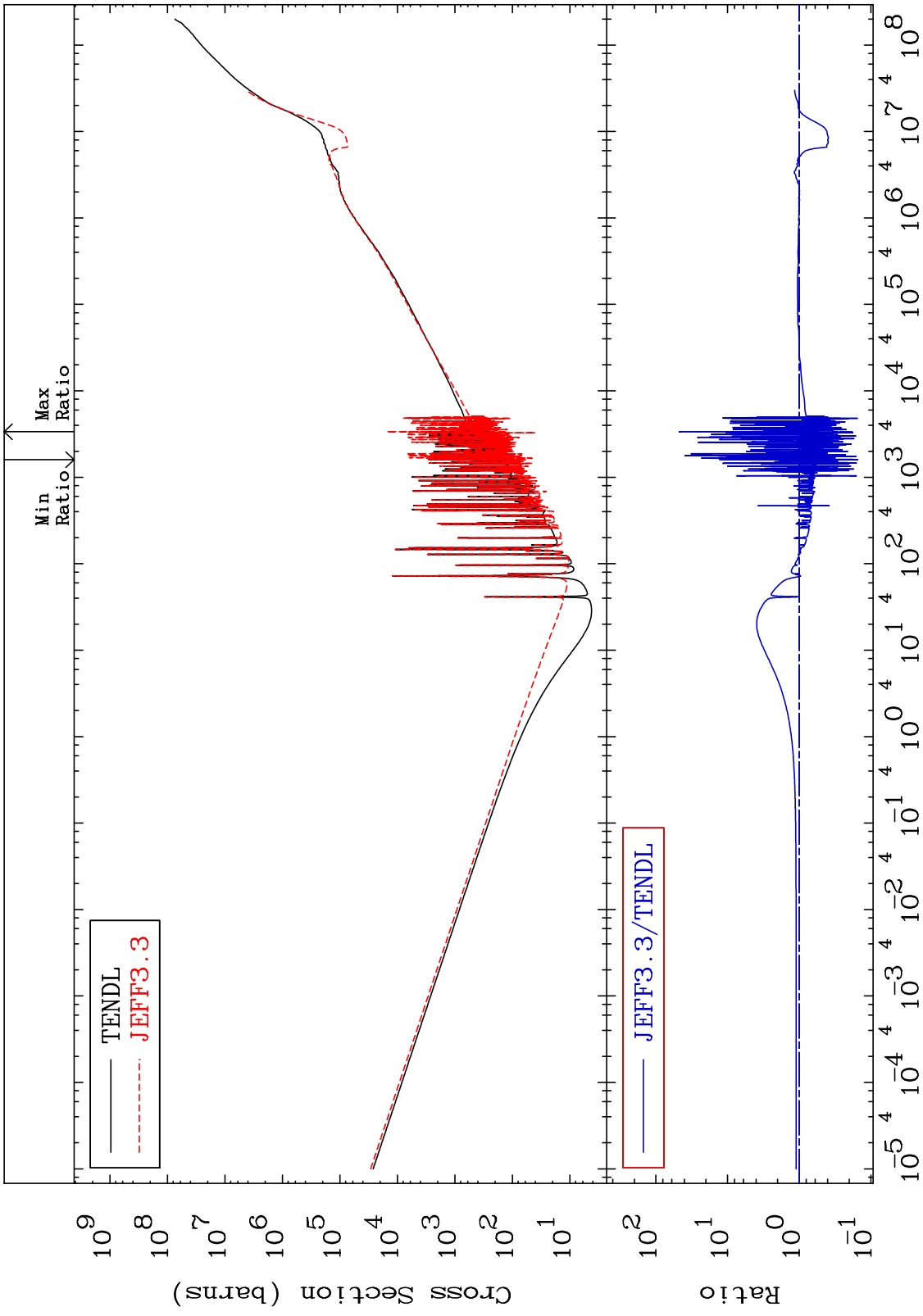


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Incident Energy (eV)

53-I -129

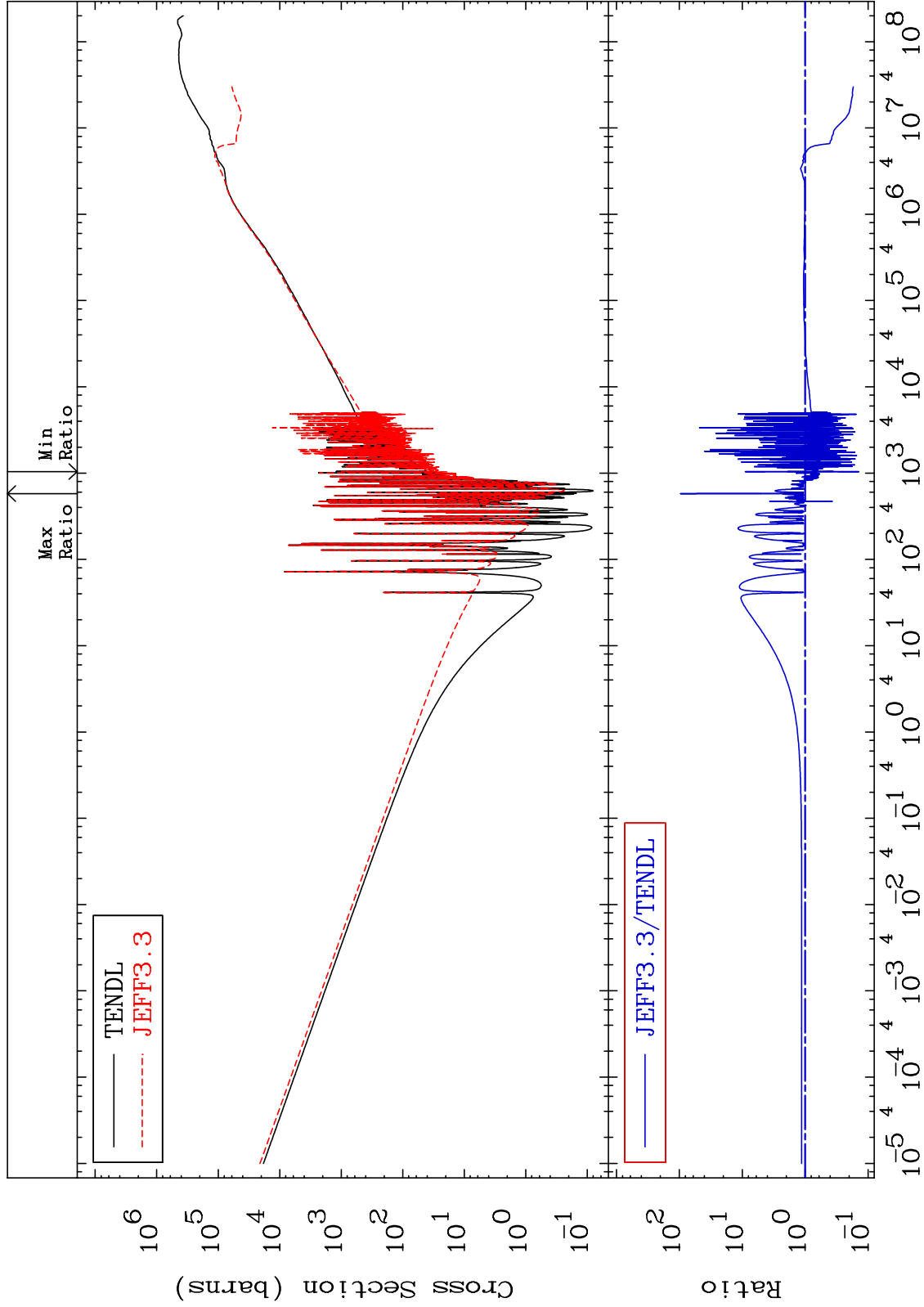
MAT 5331 Total kinematic kerma (high limit) 53-I -129
Cross Section -84.80 To 4648. %



MAT 5331

Dpa total (eV-barns)
Cross Section

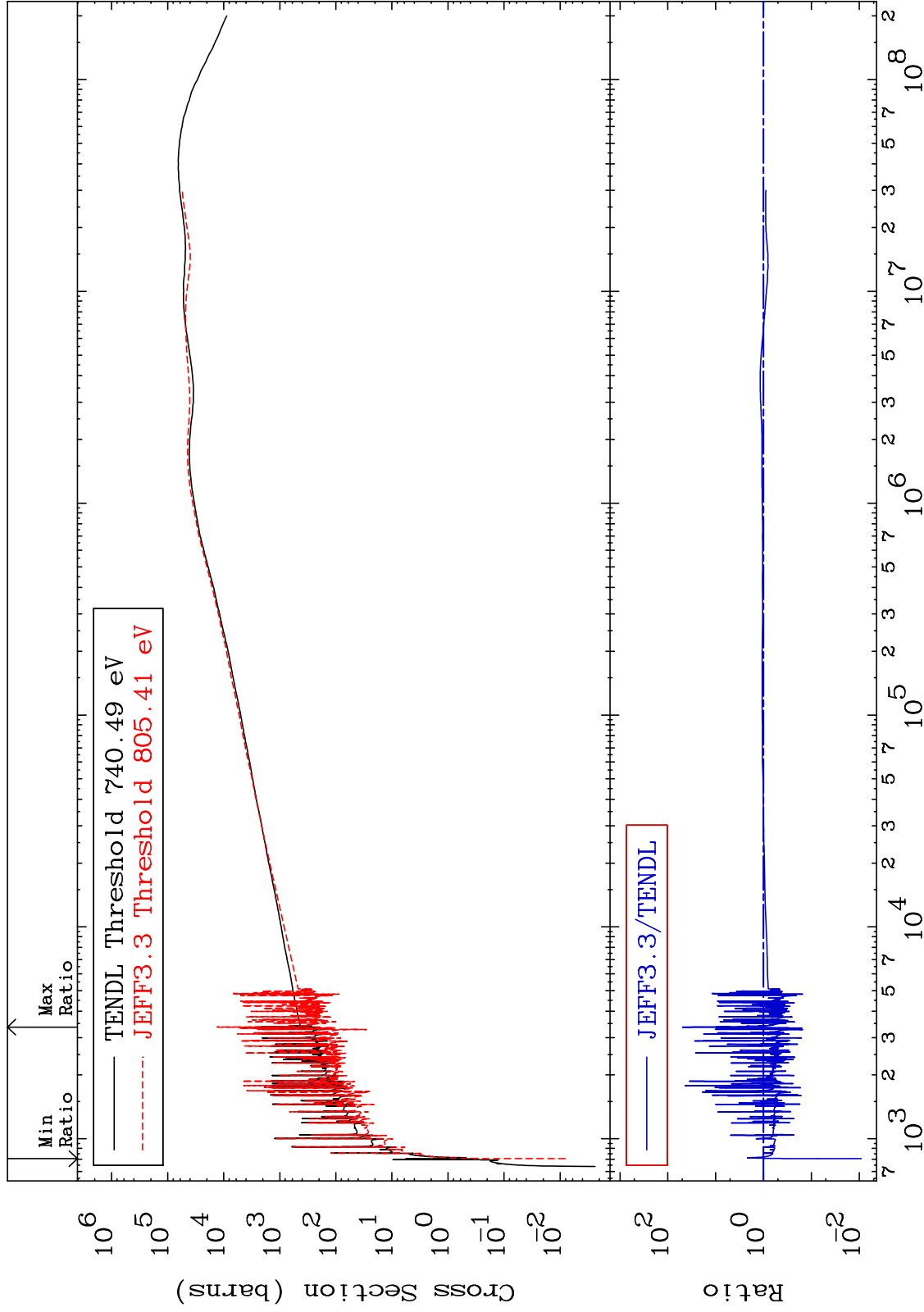
53-I -129
-86.04 To 9424. %



MAT 5331

Dpa elastic (mt2)
Cross Section

53-I -129
-99.09 To 4851. %



60

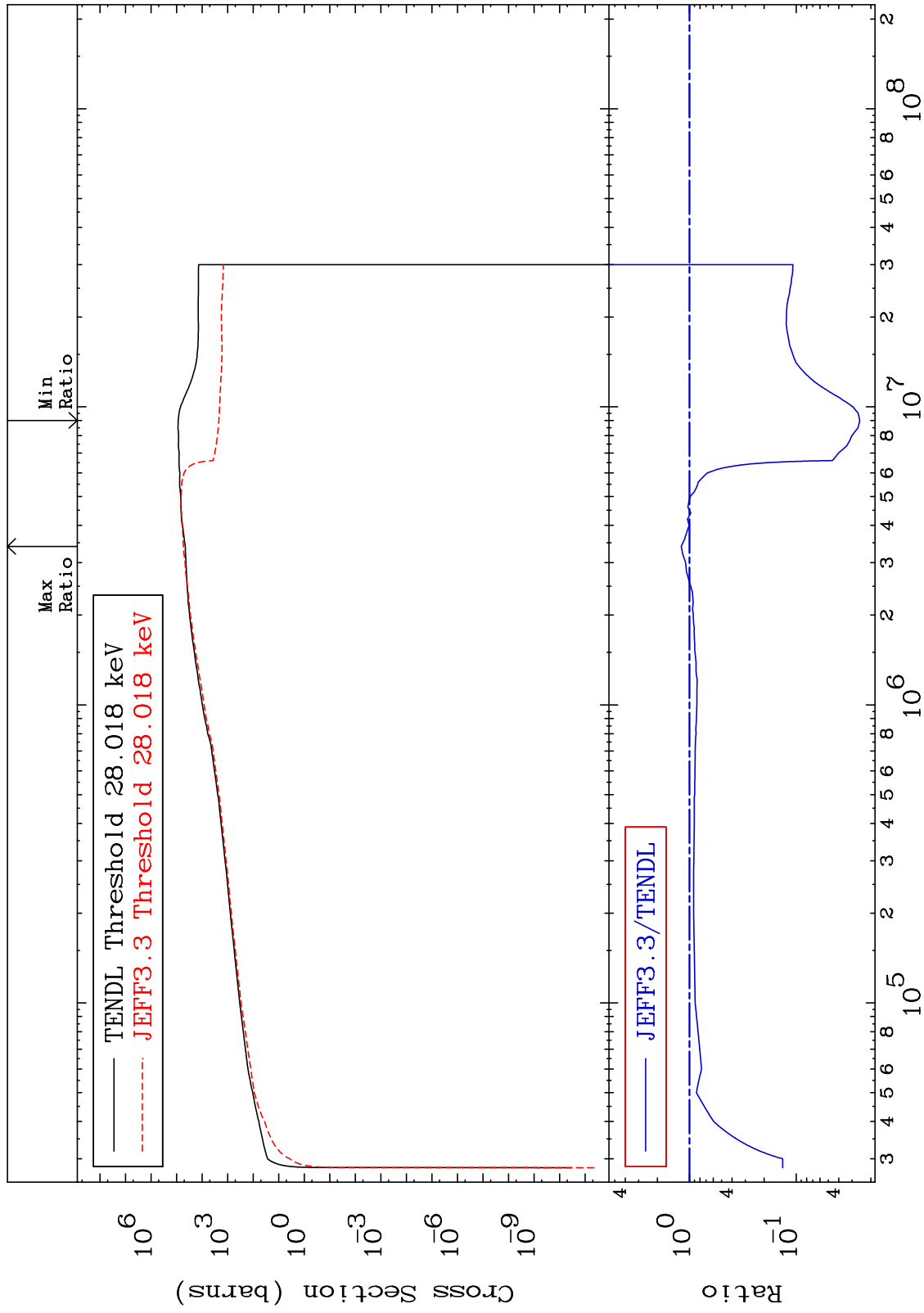
Incident Energy (eV)

53-I -129

MAT 5331

Dpa inelastic (mt51-91)
Cross Section

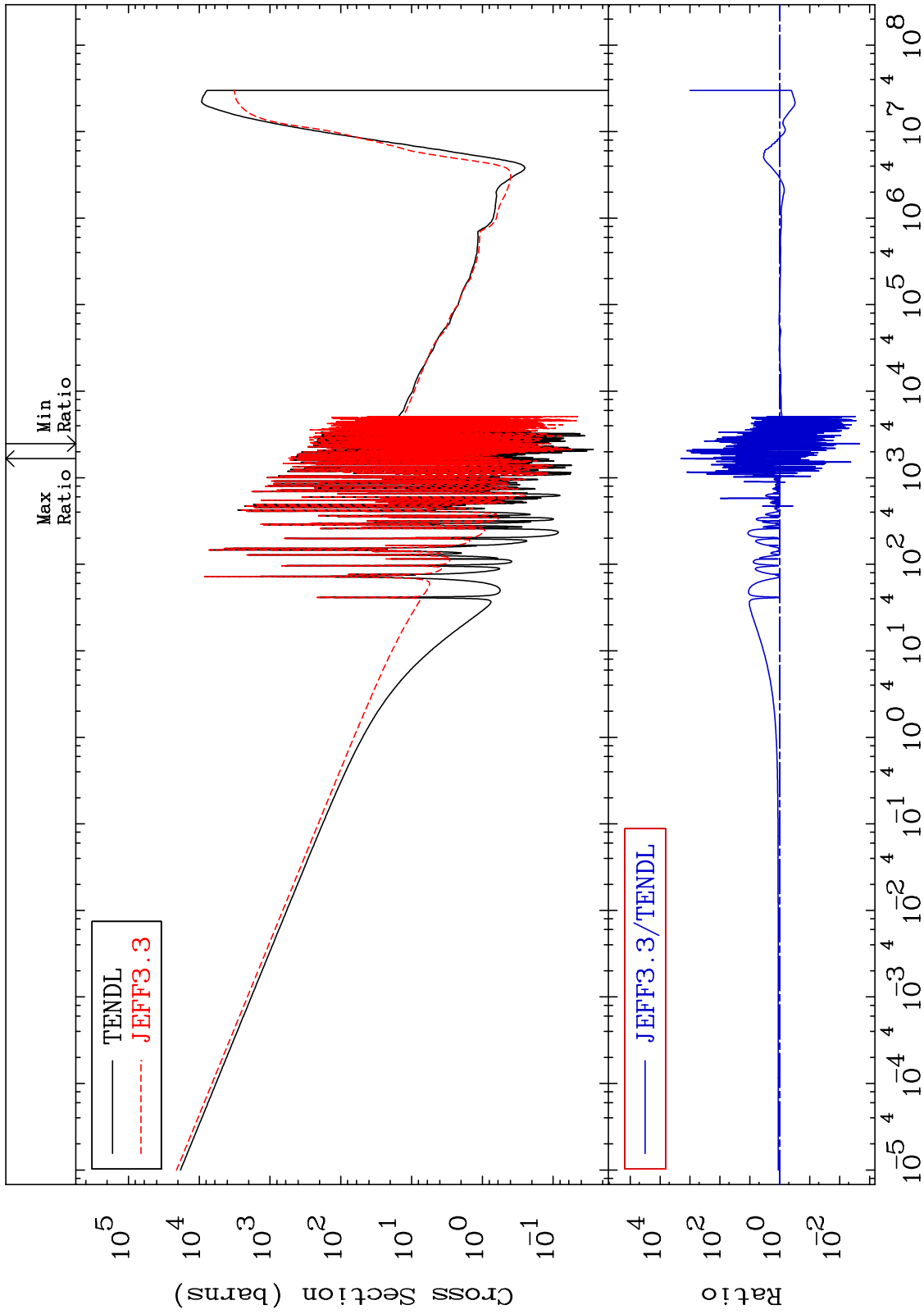
53-I -129
-97.46 To 19.52 %

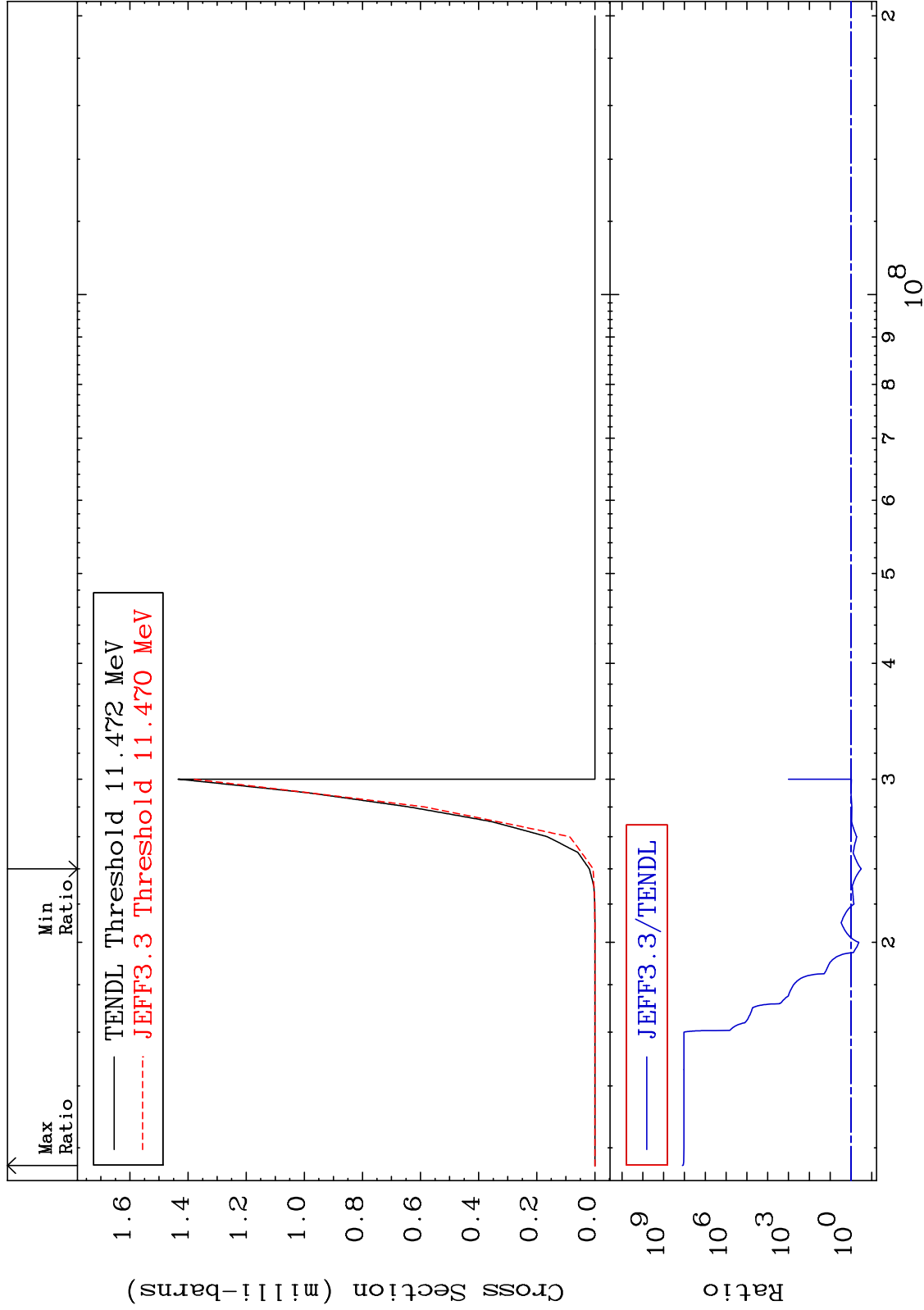


MAT 5331

Dpa disappearance (mt102 -120)
Cross Section

53-I -129
-99.78 To 9999. %



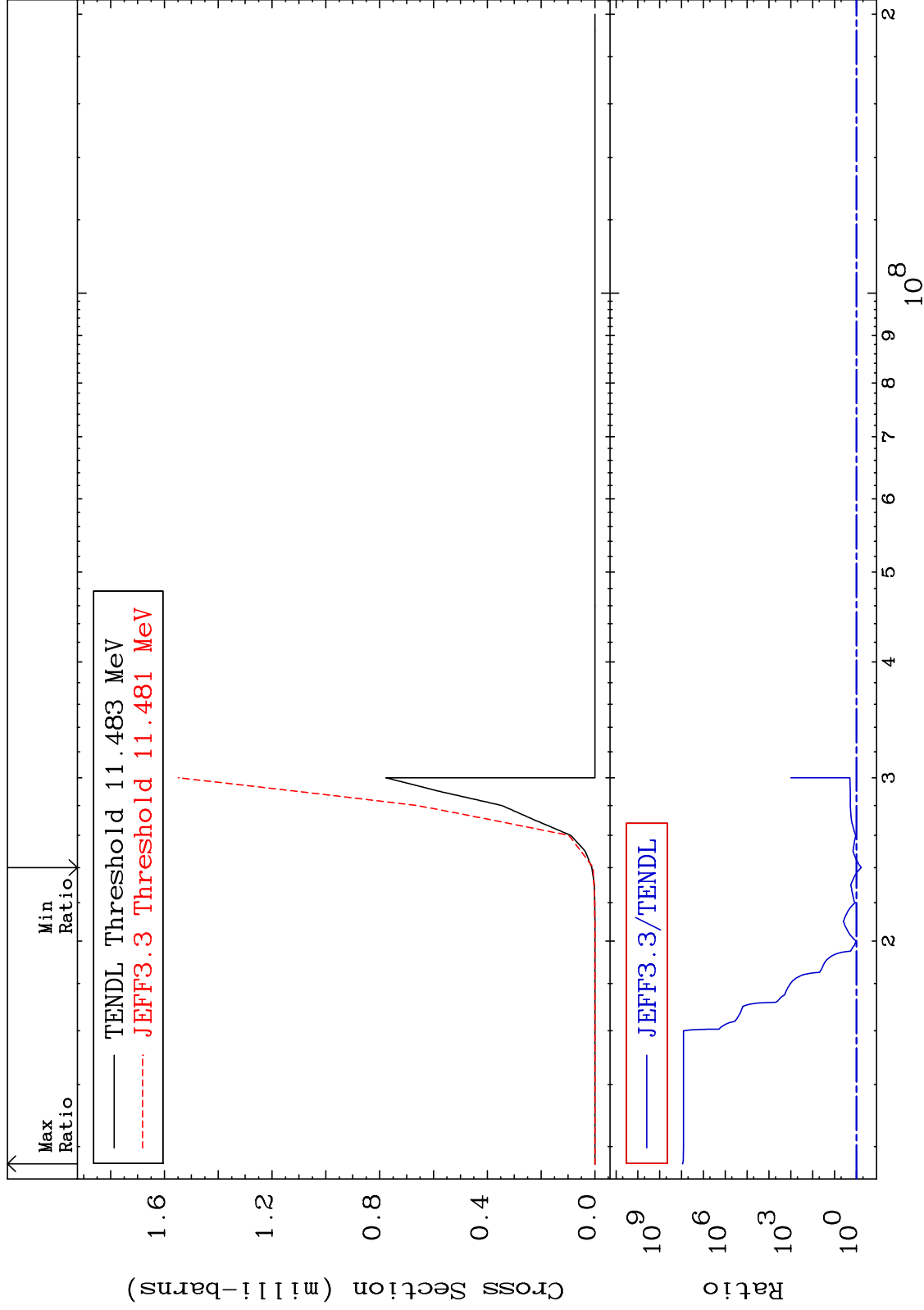


MAT 5331

(n,2n) α :51-Sb-124m1

53-I -129

Radionuclide Production Cross Section -40.34 To 9999. %

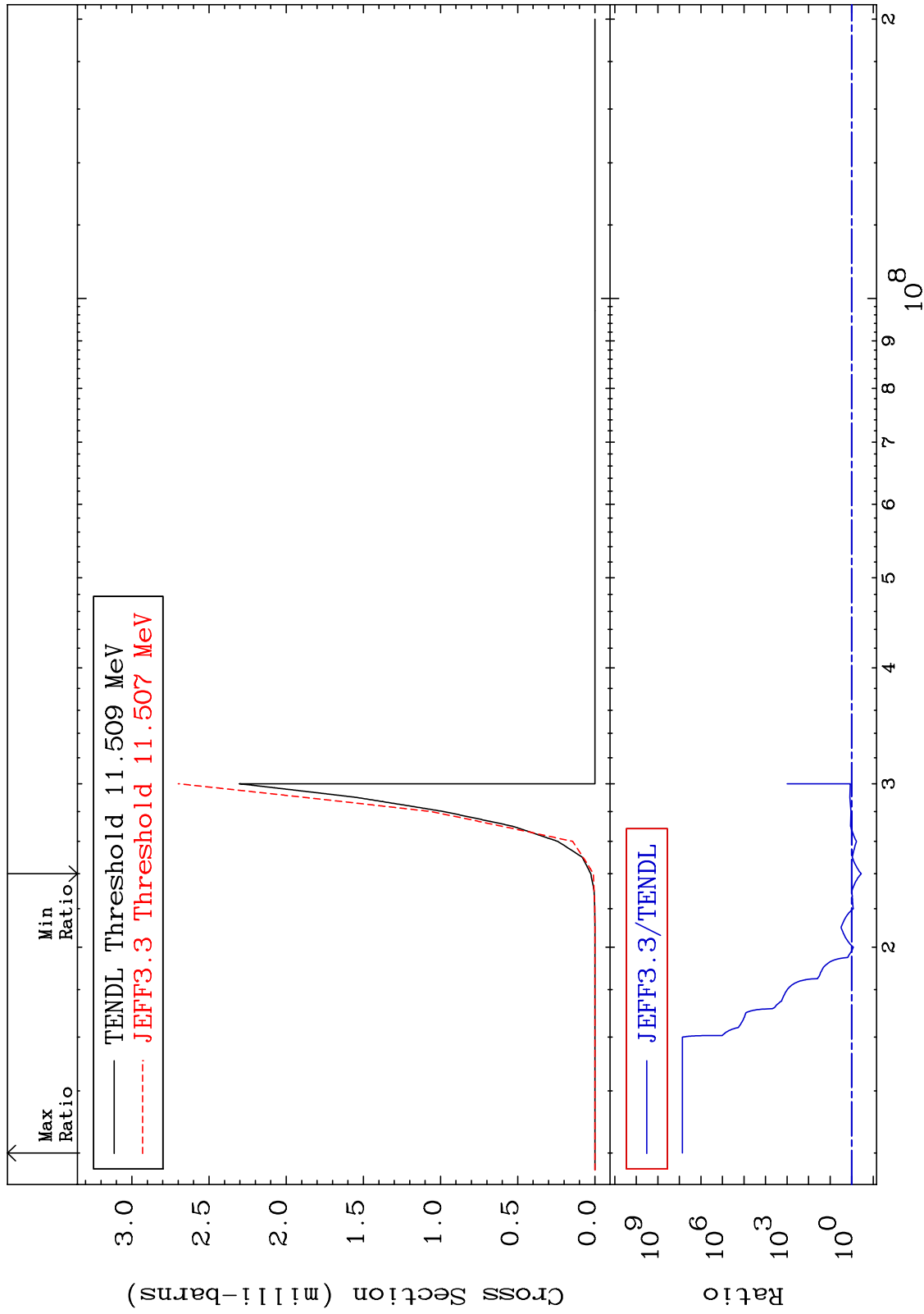


MAT 5331

(n,2n) α :51-Sb-124m2

53-I -129

Radionuclide Production Cross Section -64.07 To 9999. %



65

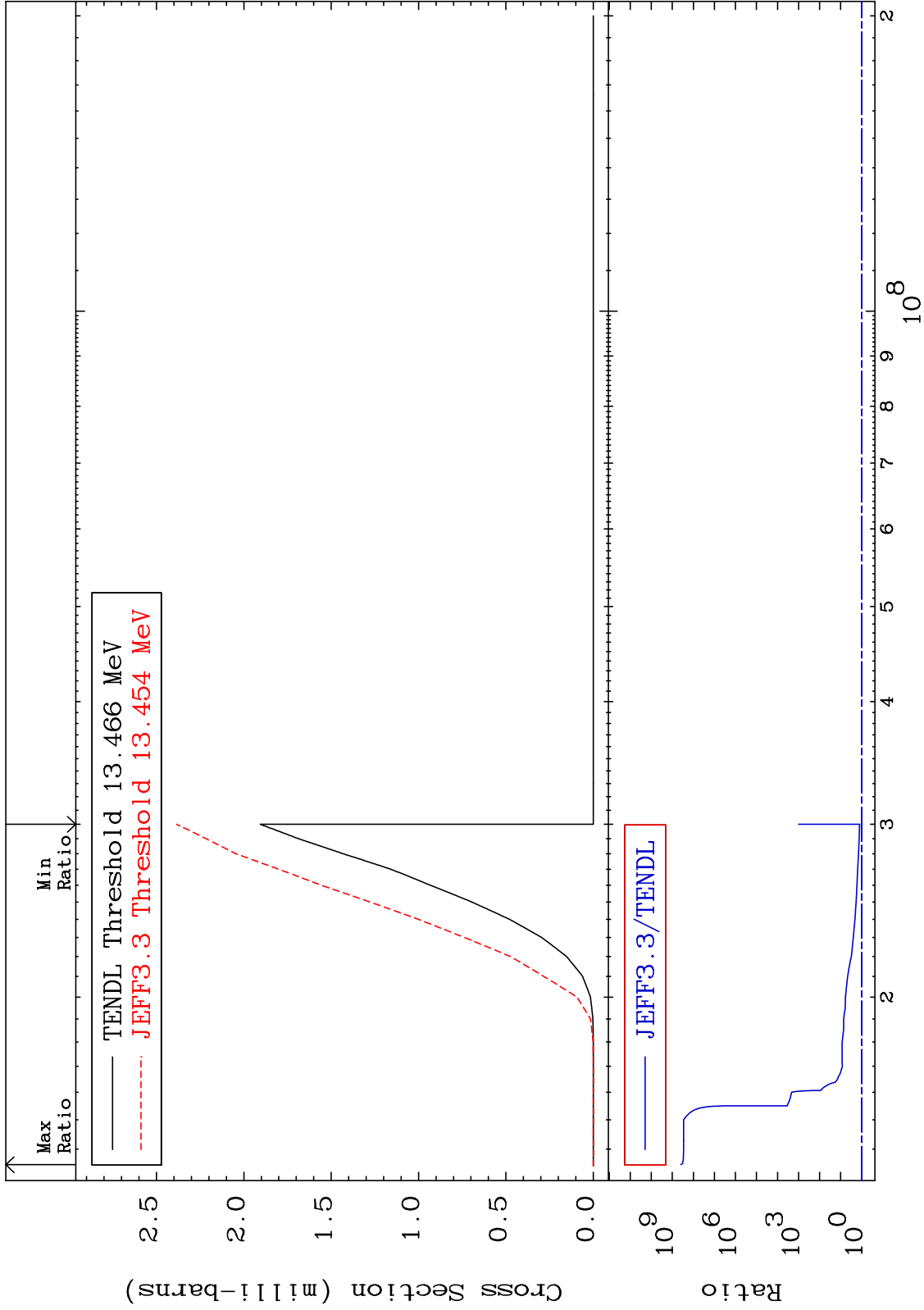
Incident Energy (eV)

53-I -129

MAT 5331

(n, n') d:52-Te-127g
Radionuclide Production Cross Section 25.13 To 9999. %

53-I -129

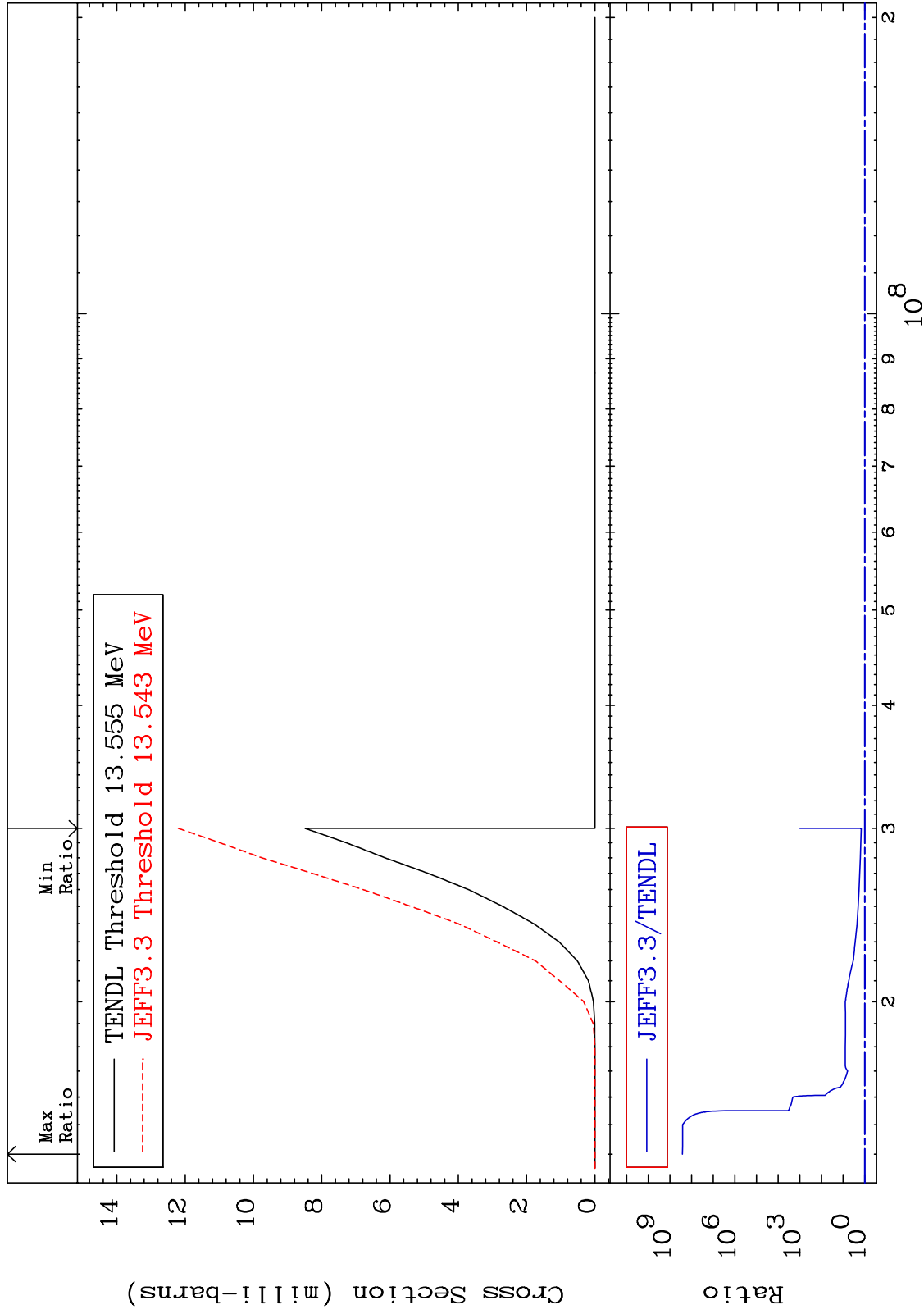


MAT 5331

(n,n') d:52-Te-127m2

53-I -129

Radionuclide Production Cross Section 43.71 To 9999. %

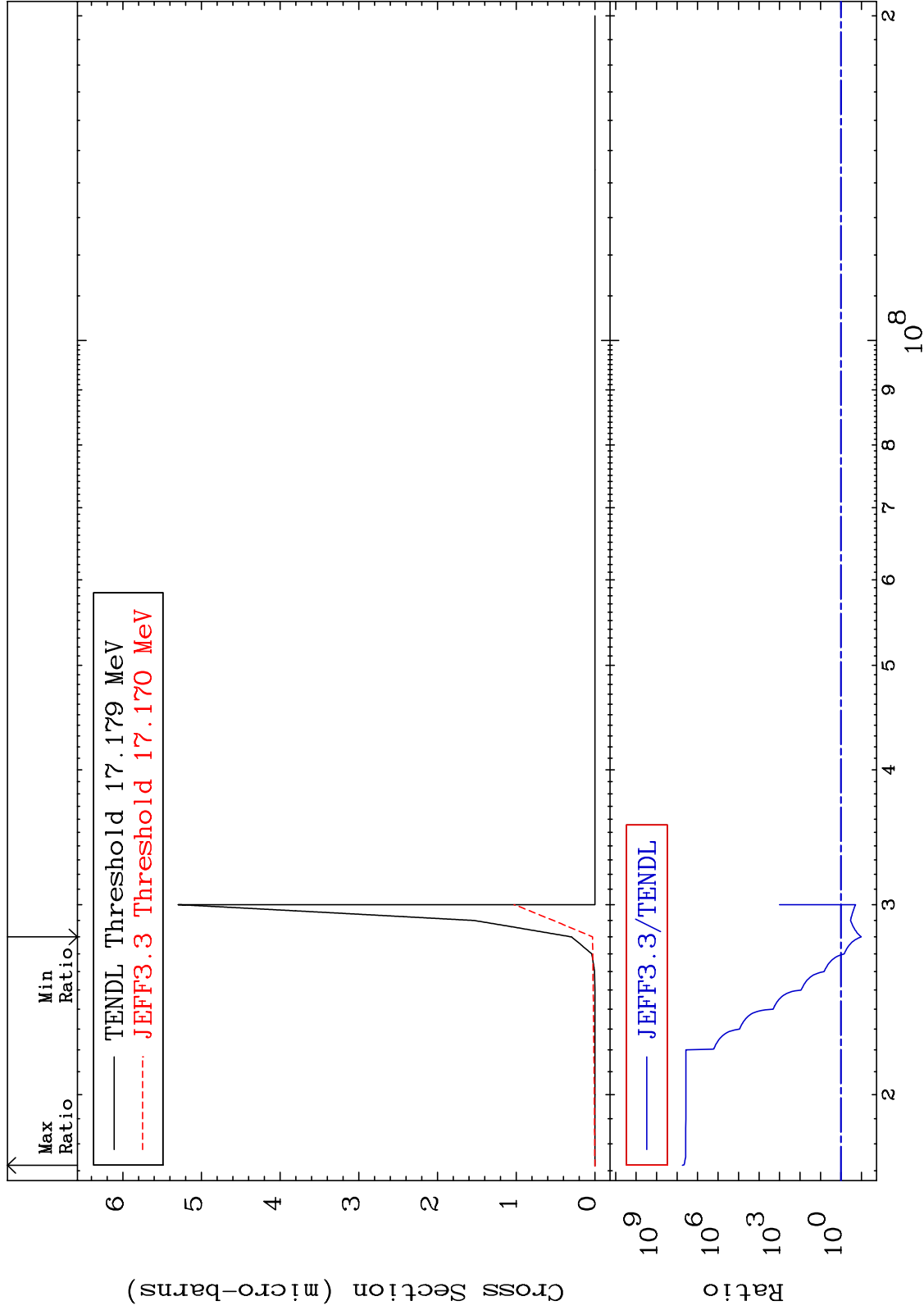


MAT 5331

(n,n') He-3:51-Sb-126g

53-I -129

Radionuclide Production Cross Section -89.80 To 9999. %



68

Incident Energy (eV)

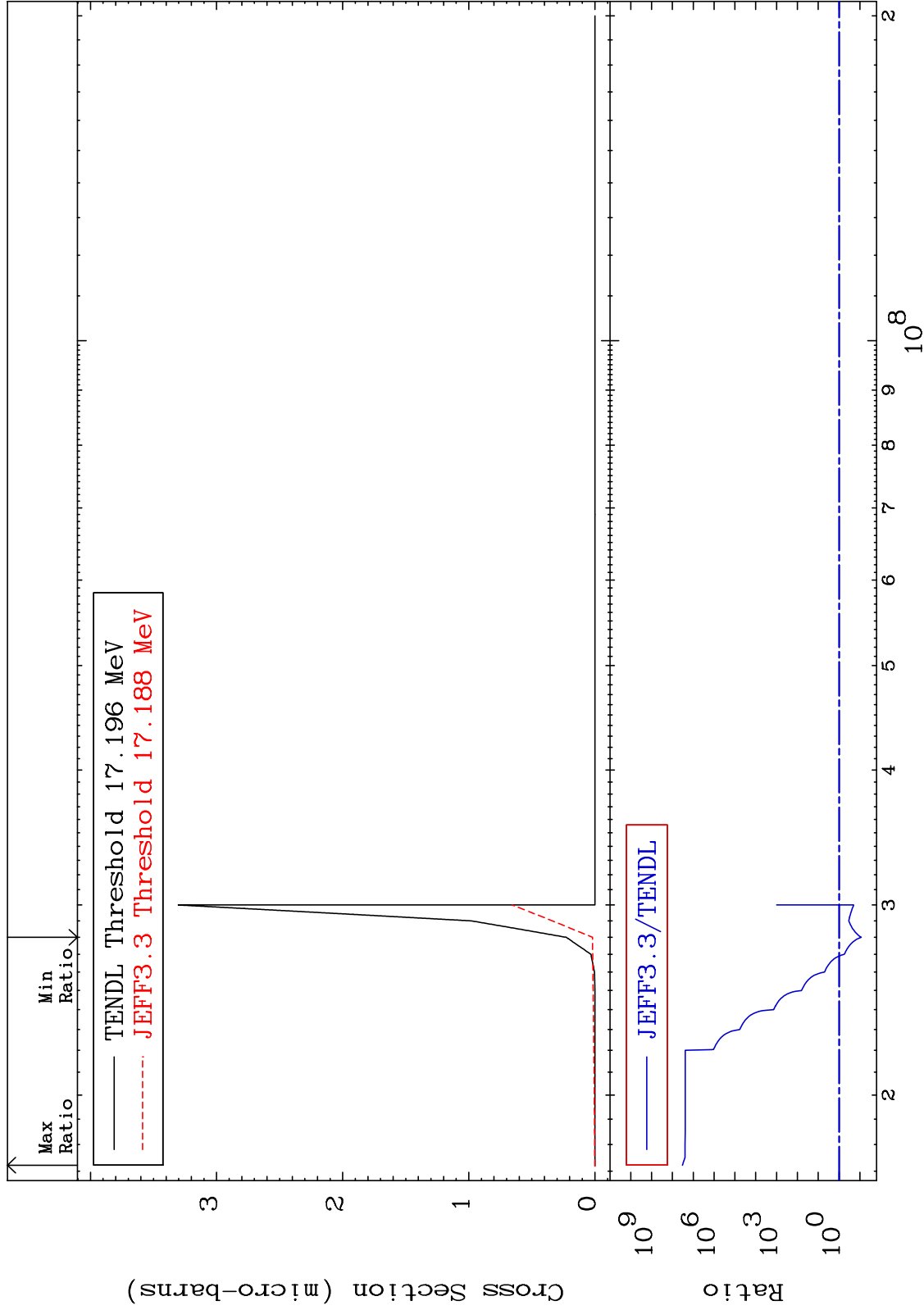
53-I -129

MAT 5331

(n, n') He-3:51-Sb-126m1

53-I -129

Radionuclide Production Cross Section -91.43 To 9999. %



69

Incident Energy (eV)

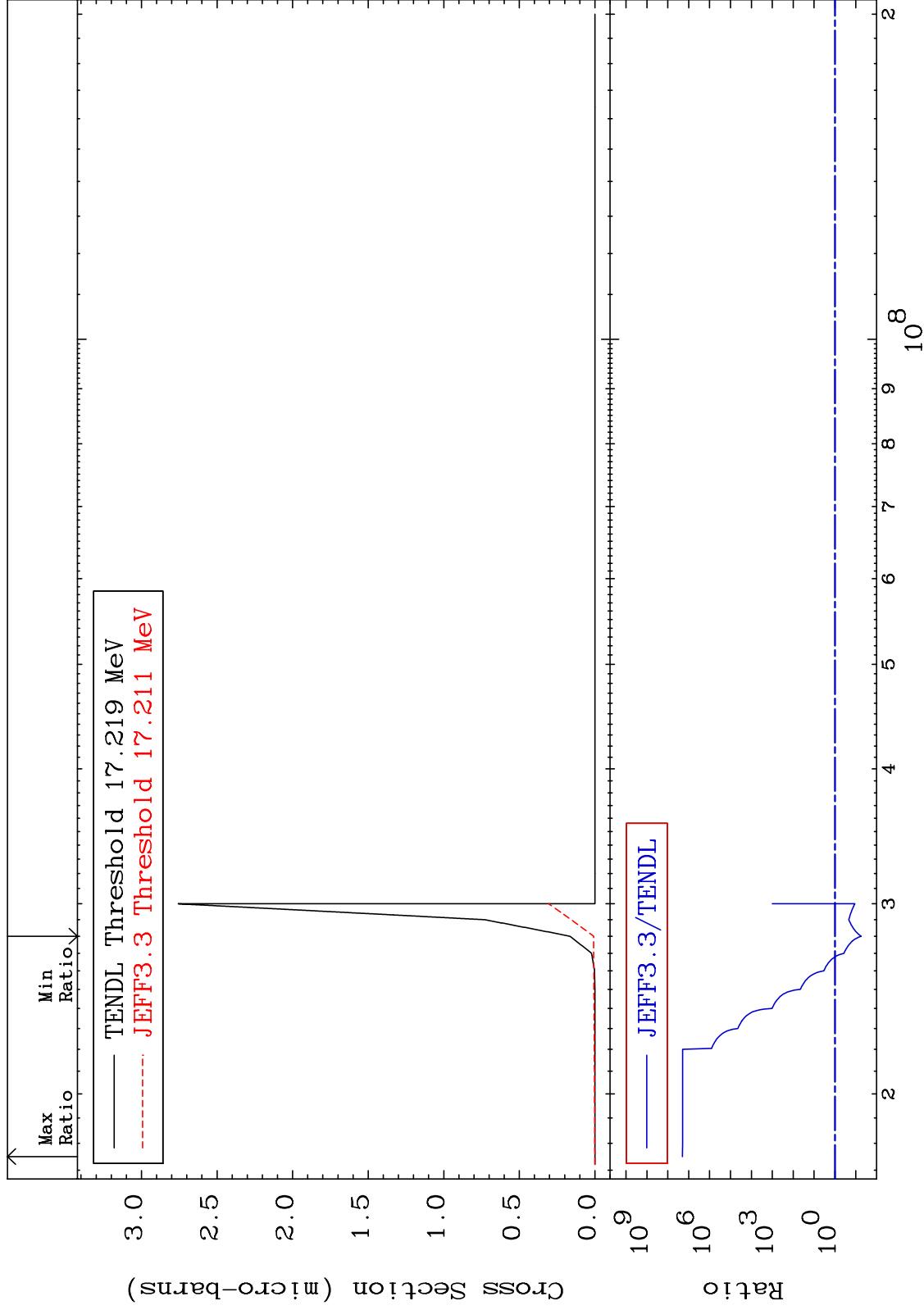
53-I -129

MAT 5331

(n,n') He-3:51-Sb-126m2

53-I -129

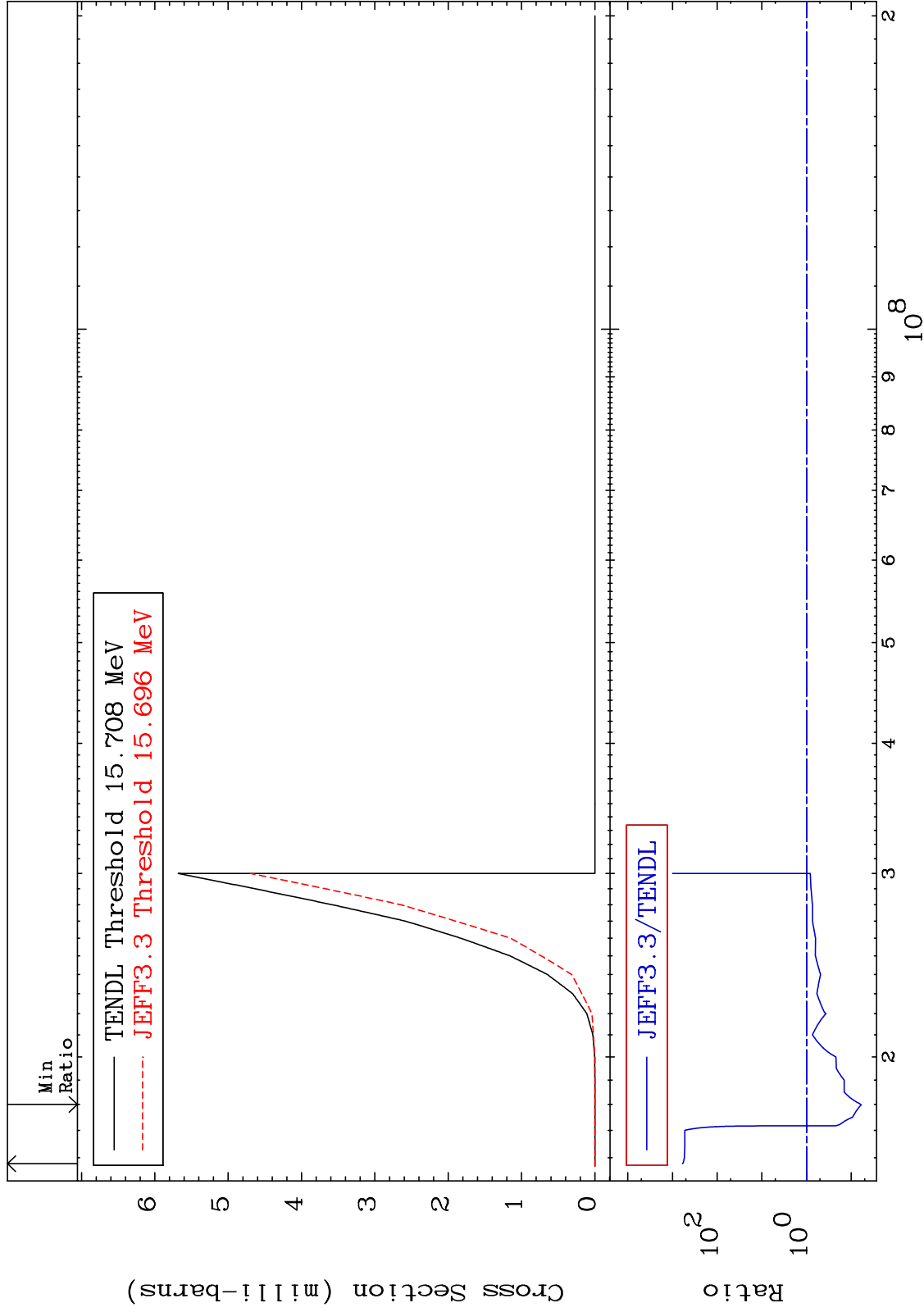
Radionuclide Production Cross Section -94.54 To 9999. %



70

Incident Energy (eV)

53-I -129

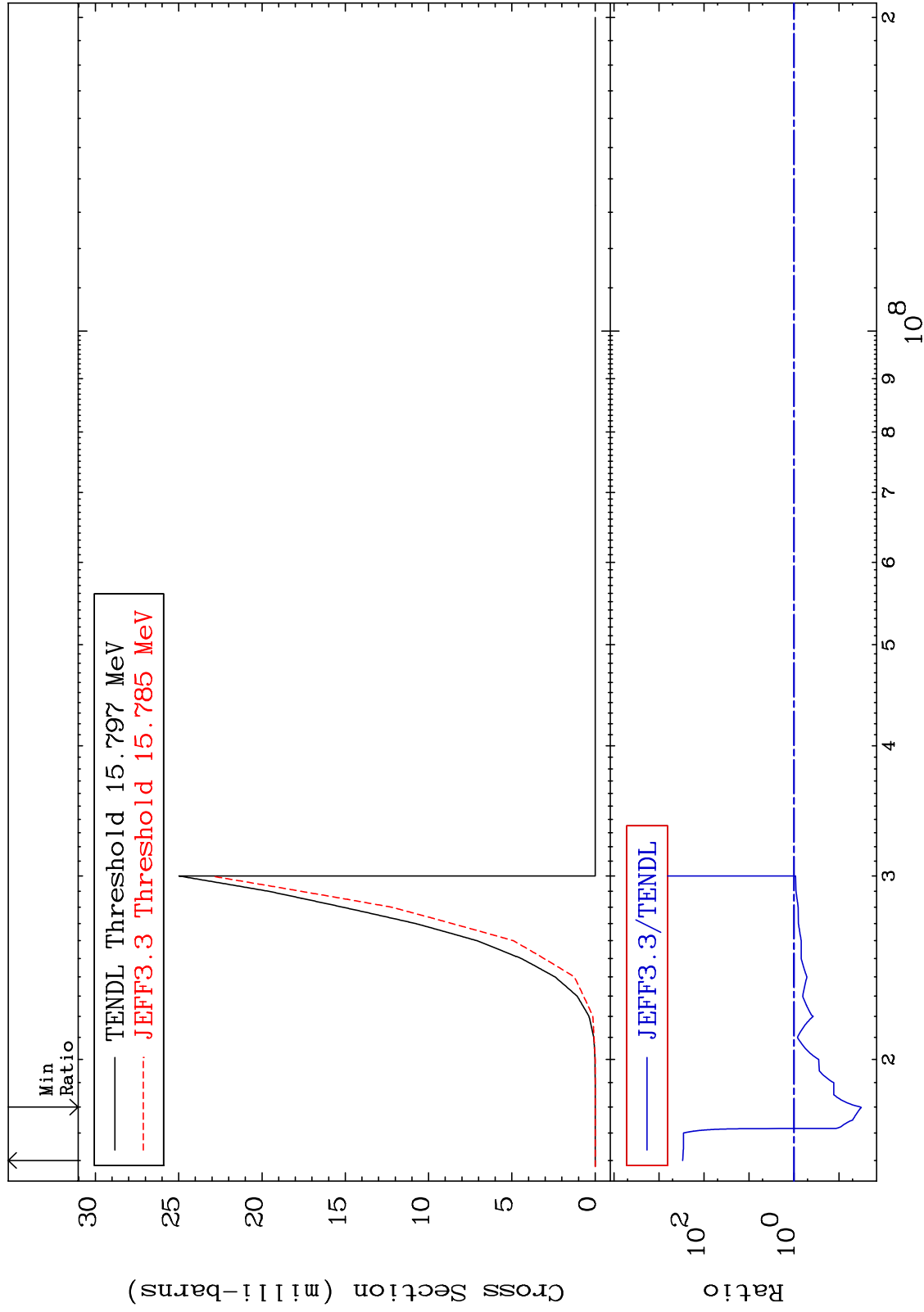


MAT 5331

(n,2n) p:52-Te-127m2

53-I -129

Radionuclide Production Cross Section -96.81 To 9999. %



72

Incident Energy (eV)

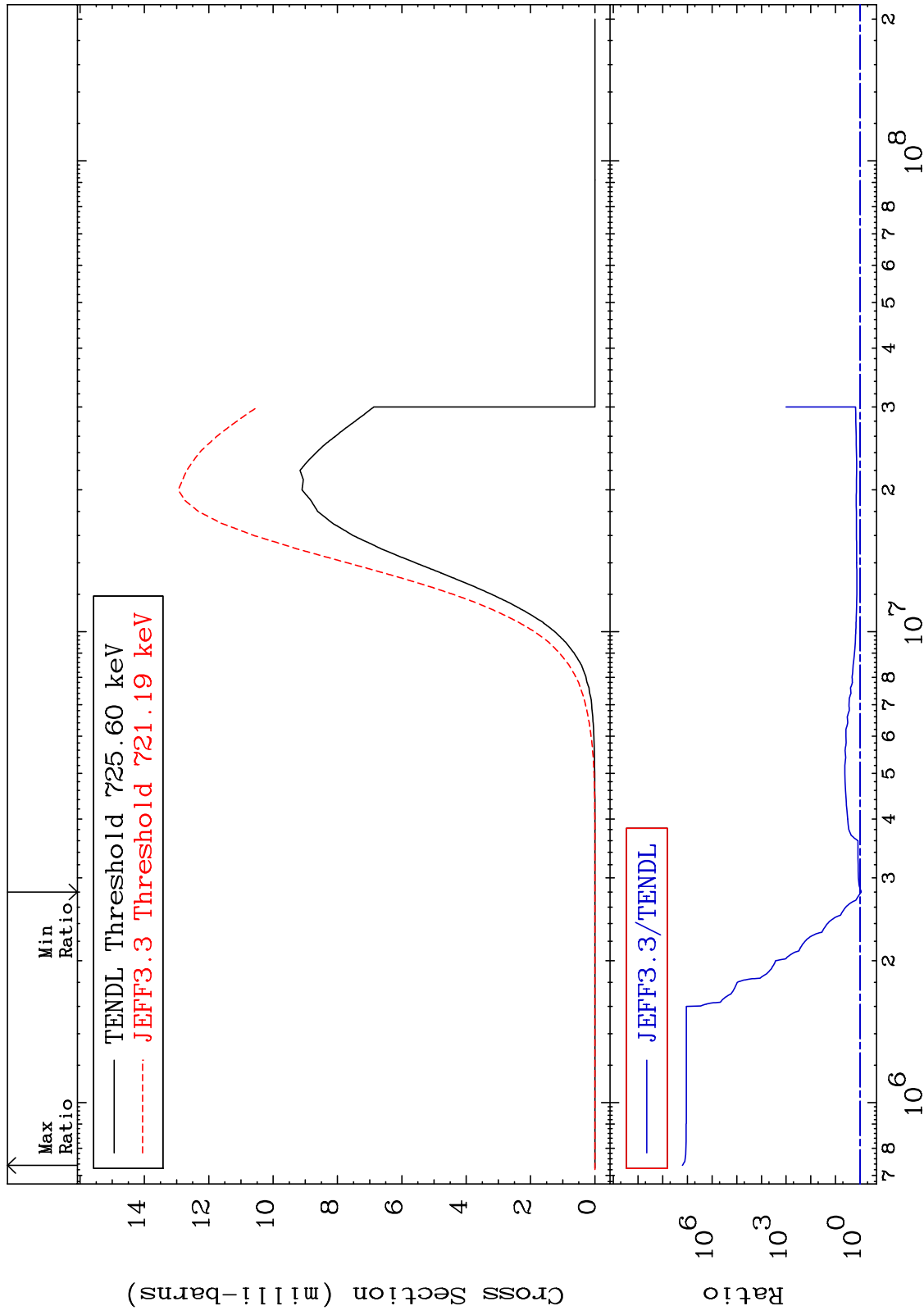
53-I -129

MAT 5331

(n,p):52-Te-129g

53-I -129

Radionuclide Production Cross Section -9.884 To 9999. %



73

Incident Energy (eV)

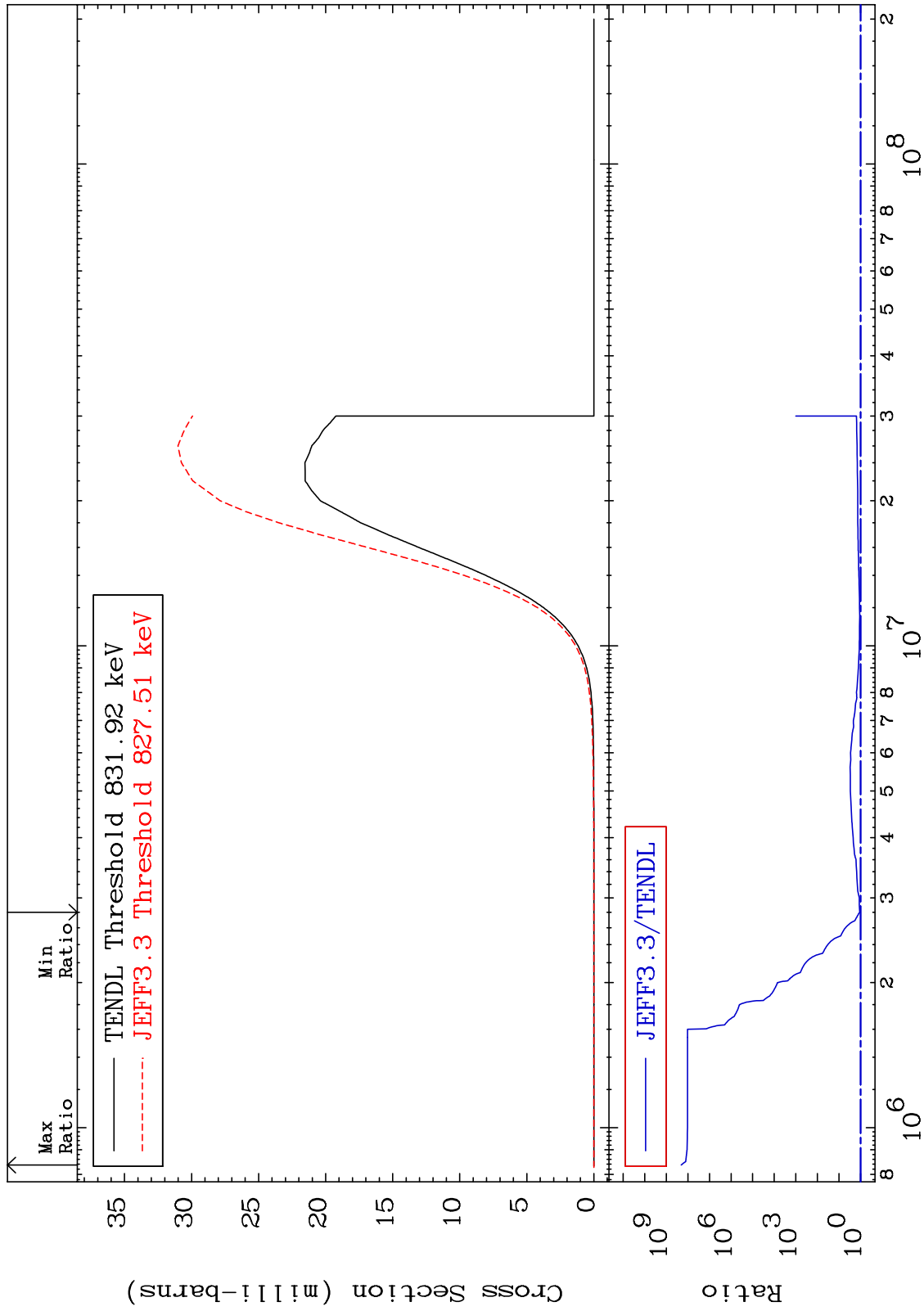
53-I -129

MAT 5331

(n,p):52-Te-129m1

53-I -129

Radionuclide Production Cross Section 9.676 To 9999. %



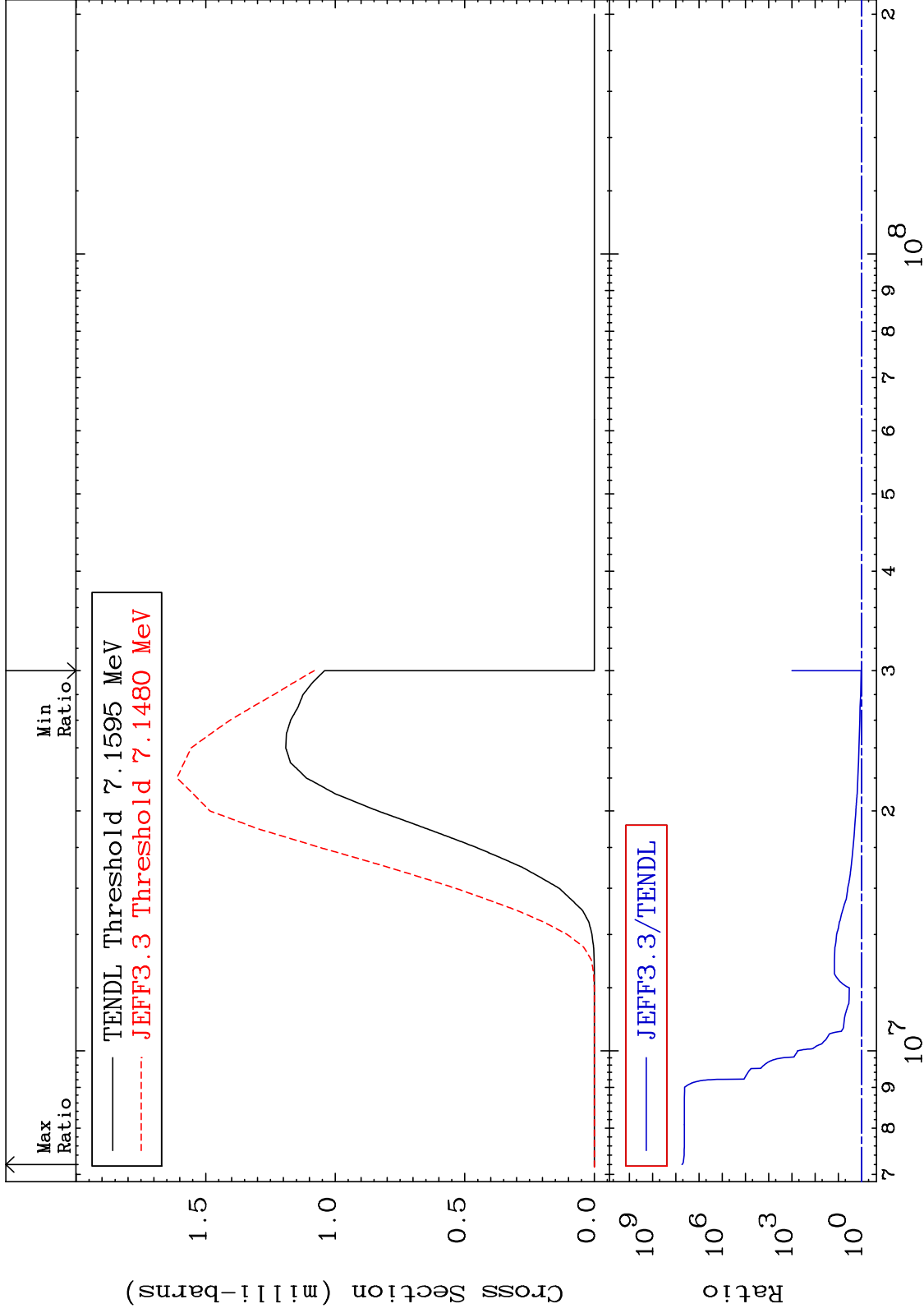
74

Incident Energy (eV)

53-I -129

MAT 5331

(n,t):52-Te-127g 53-I -129
Radionuclide Production Cross Section 3.875 To 9999. %

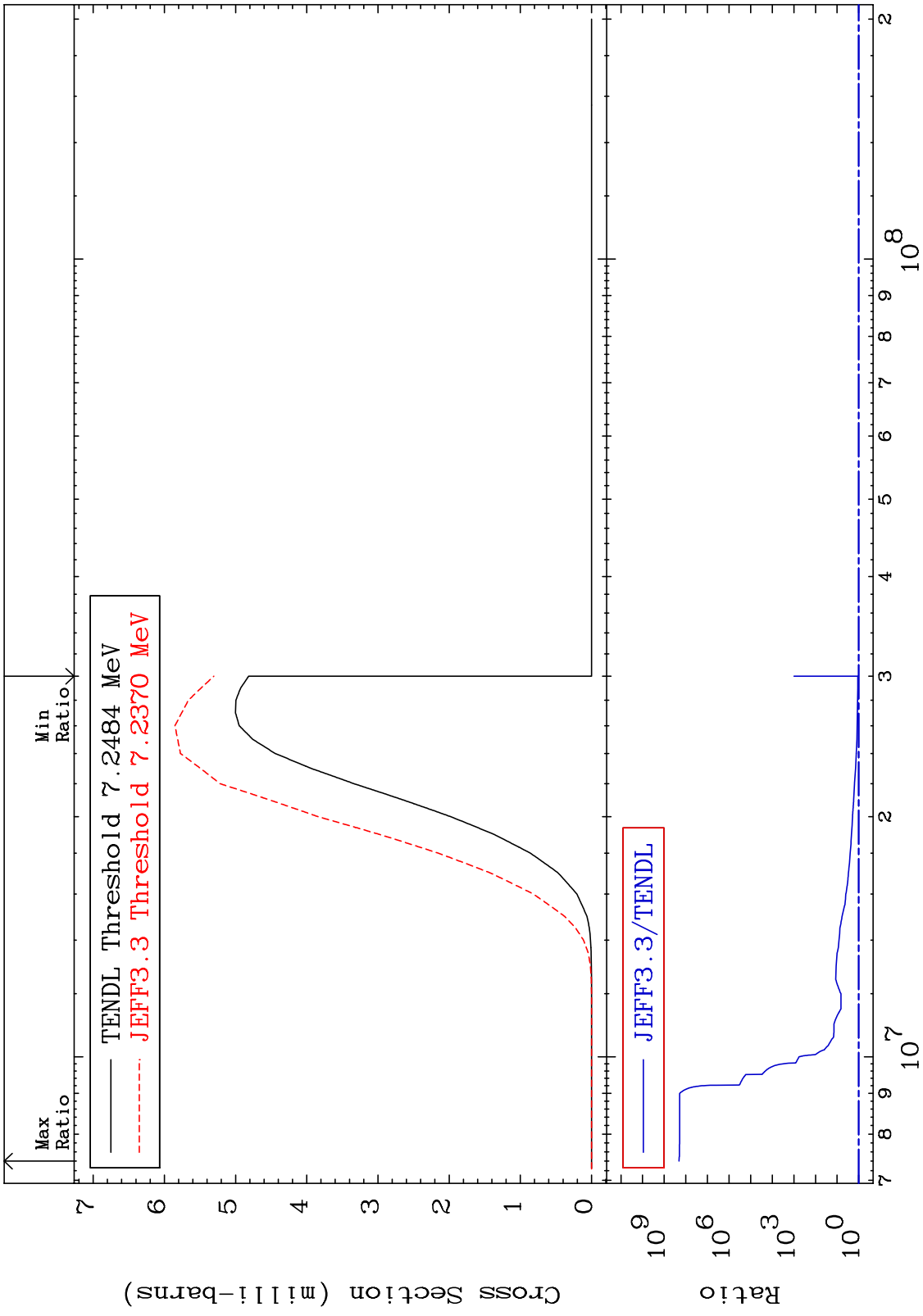


75

Incident Energy (eV)

53-I -129

MAT 5331 (n, t): 52-Te-127m2 53-I -129
 Radionuclide Production Cross Section 10.17 To 9999. %

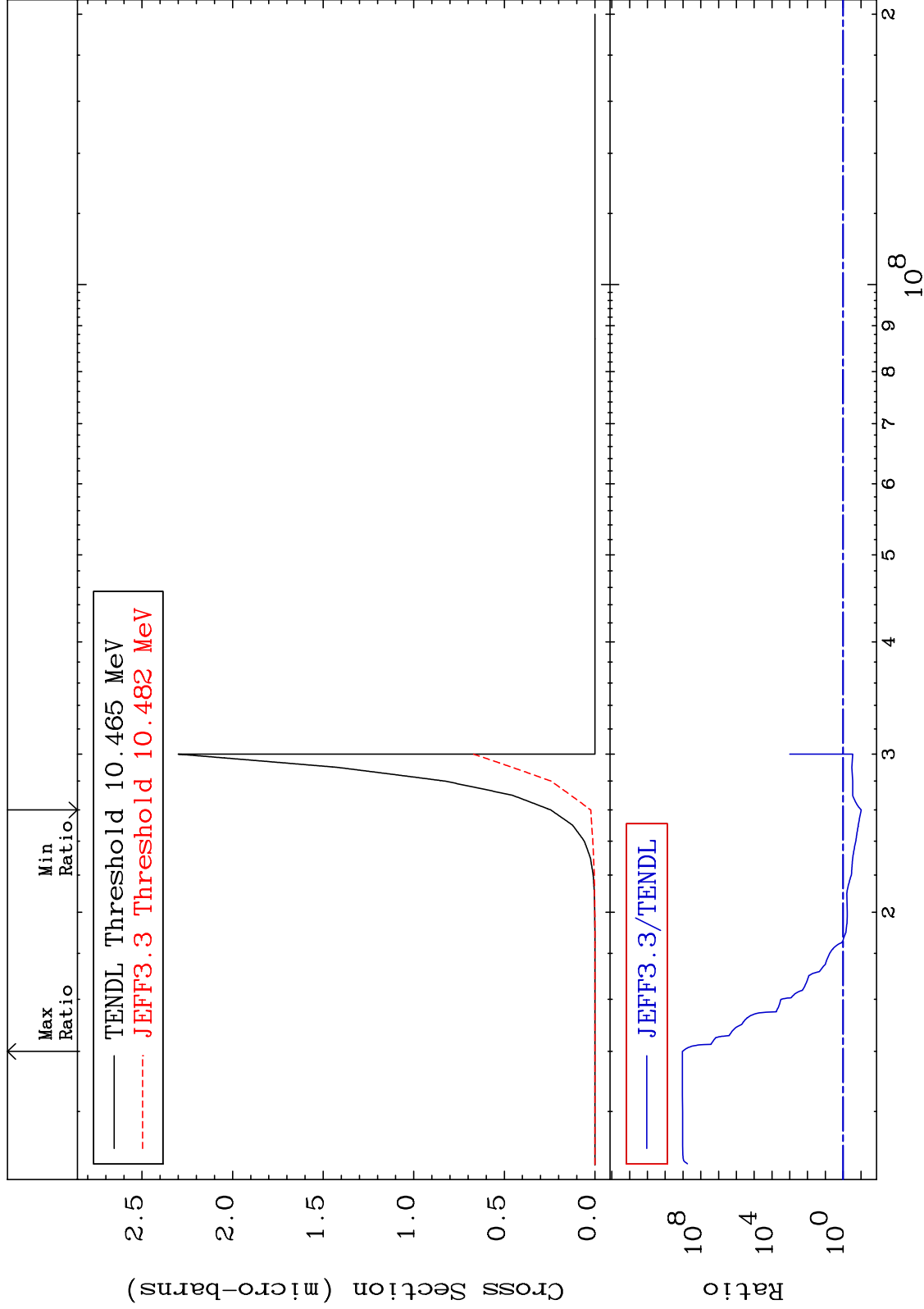


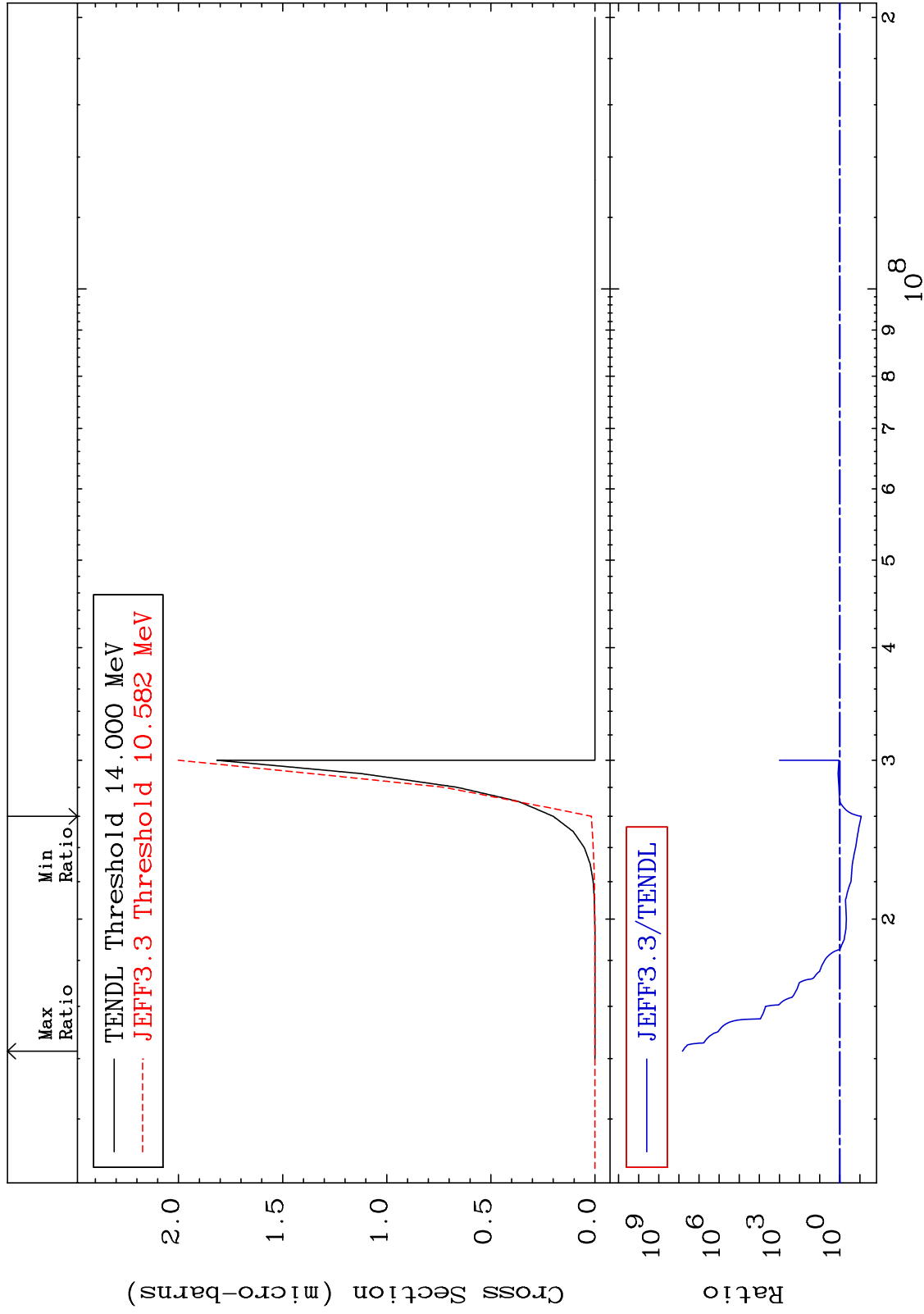
MAT 5331

(n,2p):51-Sb-128g

53-I -129

Radionuclide Production Cross Section -90.45 To 9999. %



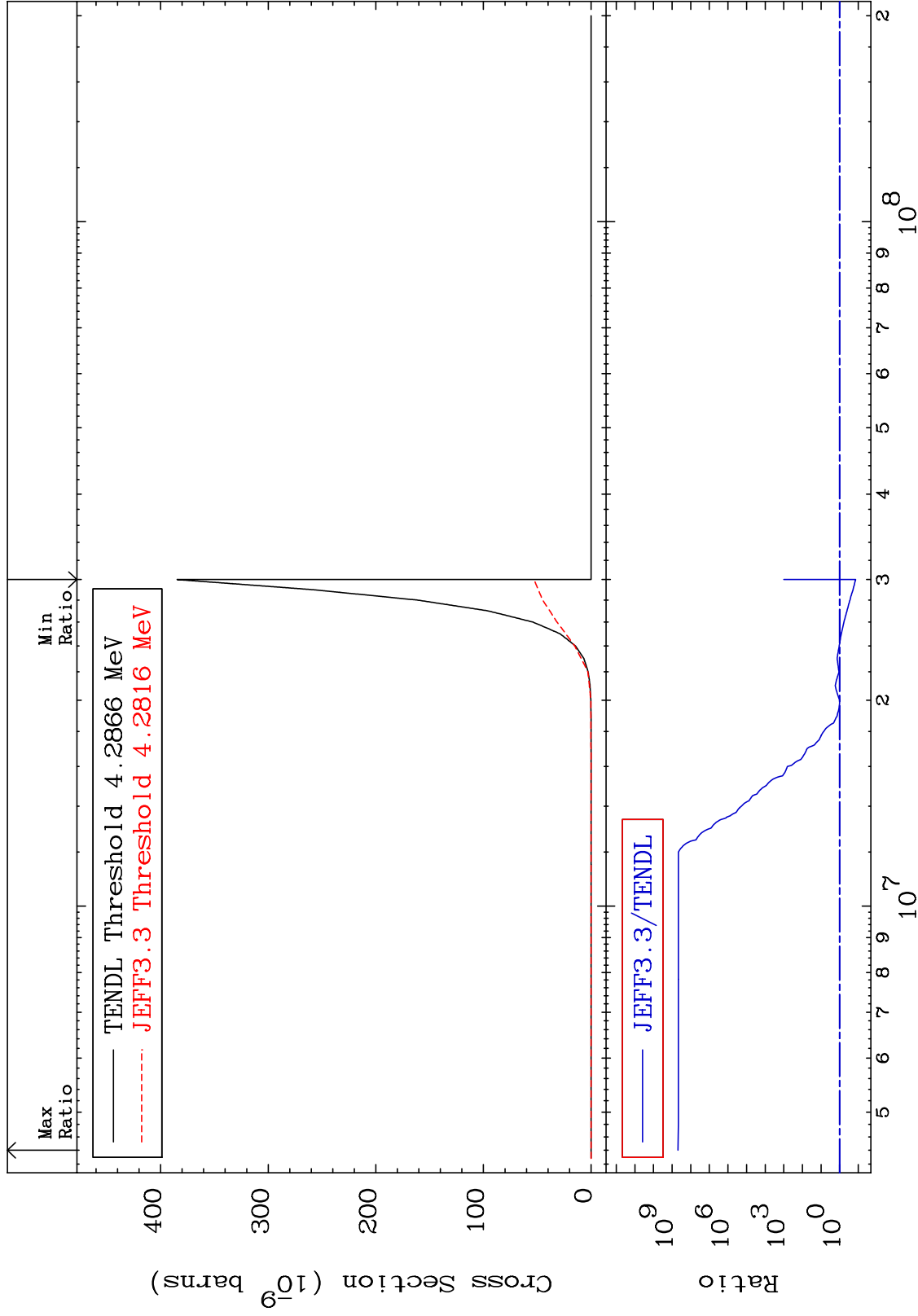


MAT 5331

53-I -129

(n,p) α :50-Sn-125g

Radionuclide Production Cross Section -86.24 To 9999. %



79

Incident Energy (eV)

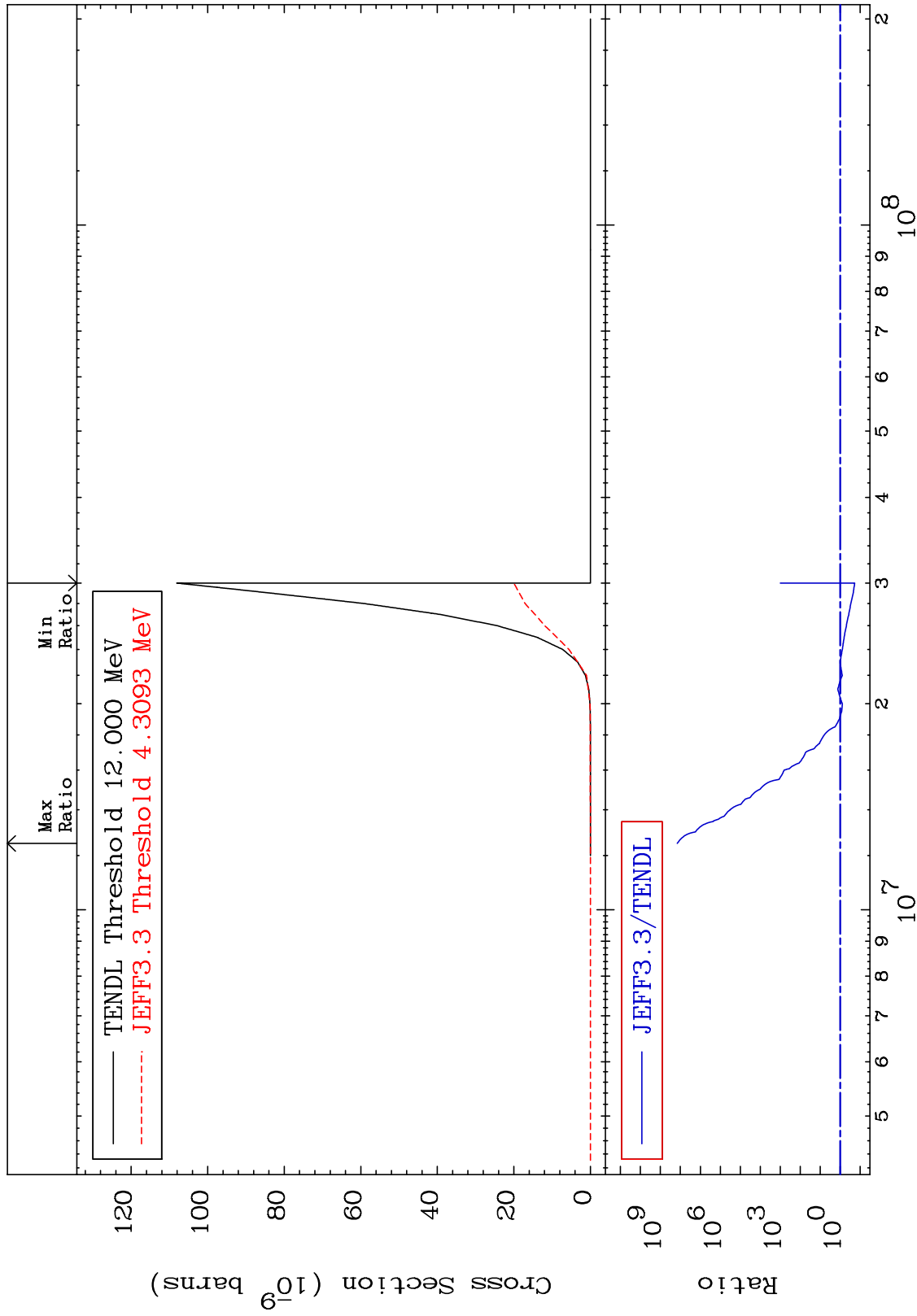
53-I -129

MAT 5331

(n,p) α :50-Sn-125m1

53-I -129

Radionuclide Production Cross Section -81.47 To 9999. %



80

Incident Energy (eV)

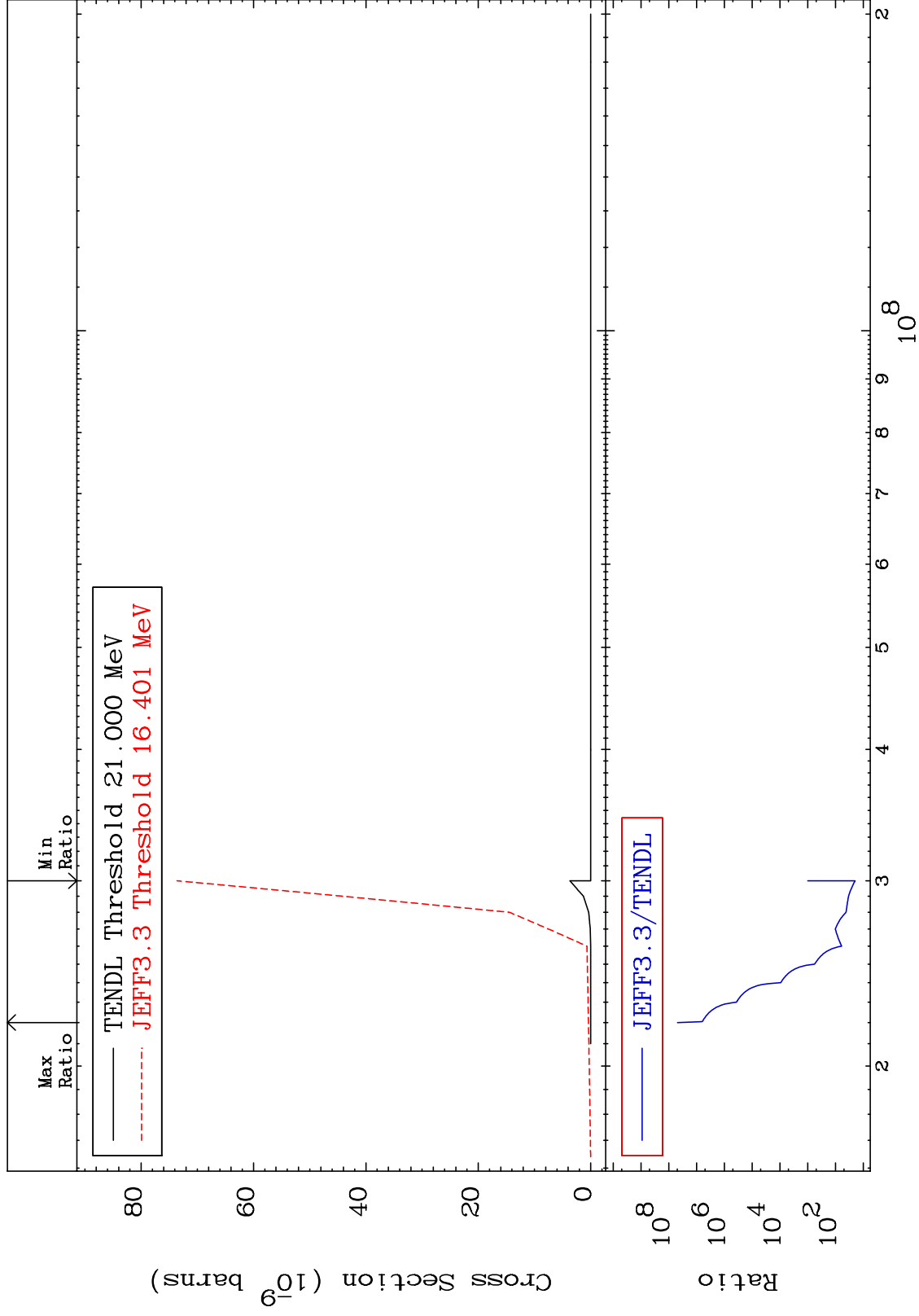
53-I -129

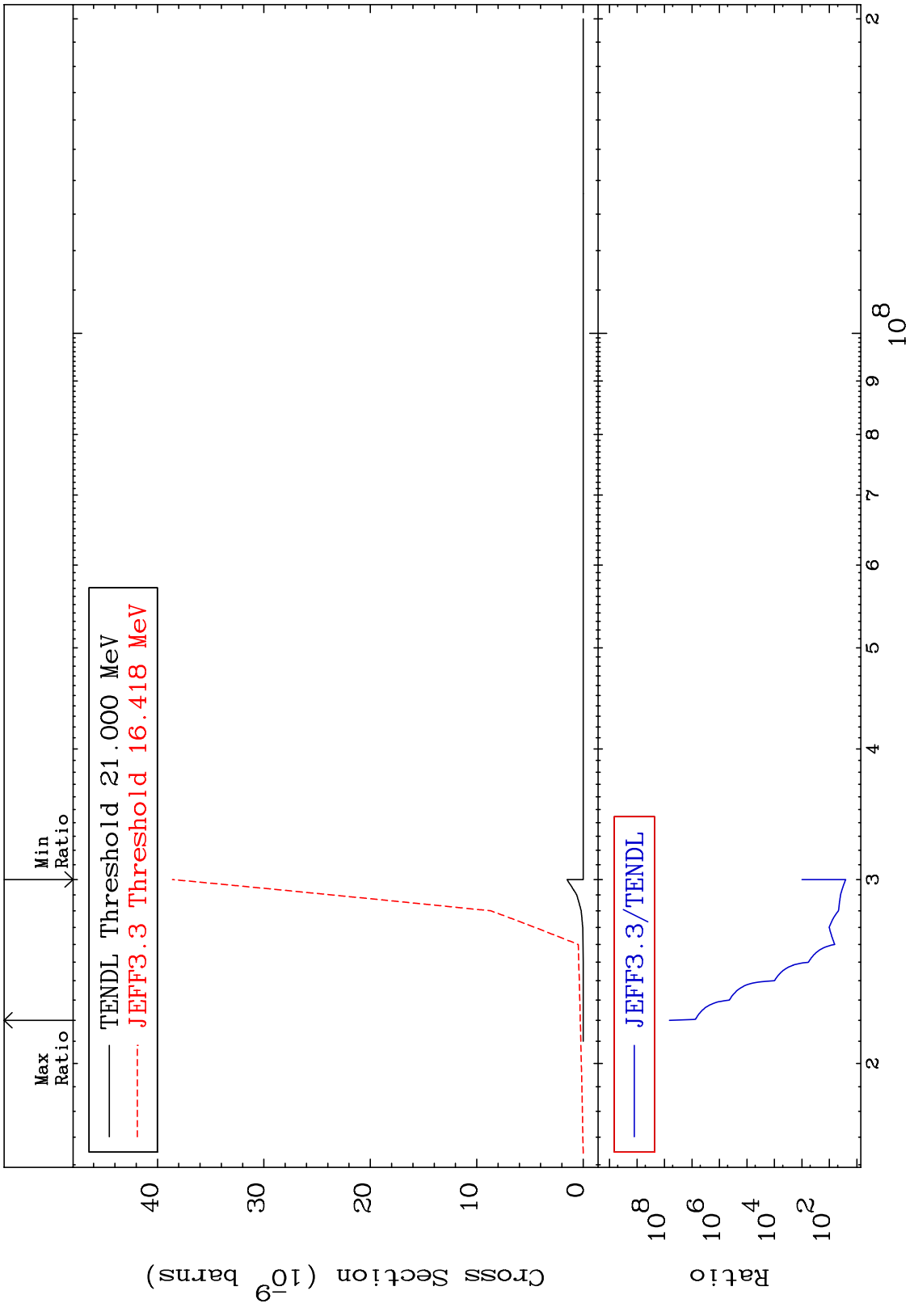
MAT 5331

(n,p) t:51-Sb-126g

53-I -129

Radionuclide Production Cross Section 1885. To 9999. %





MAT 5331 (n,p) t:51-Sb-126m2 53-I -129
 Radionuclide Production Cross Section 818.6 To 9999. %

