

Program Complot
(Version 2018-1)

by

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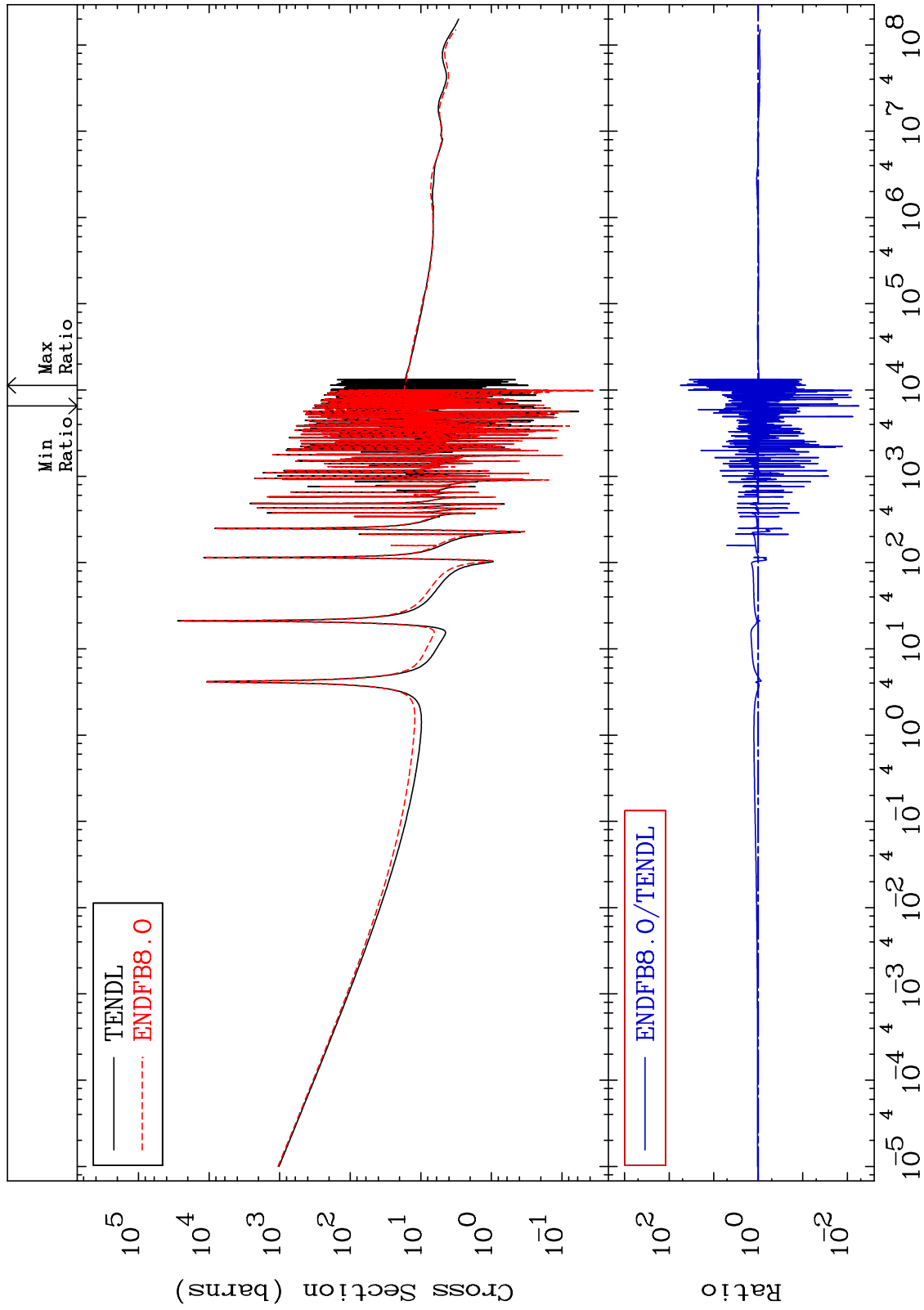
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7431

Total
Cross Section

74-W -182
-99.45 To 5424. %



1

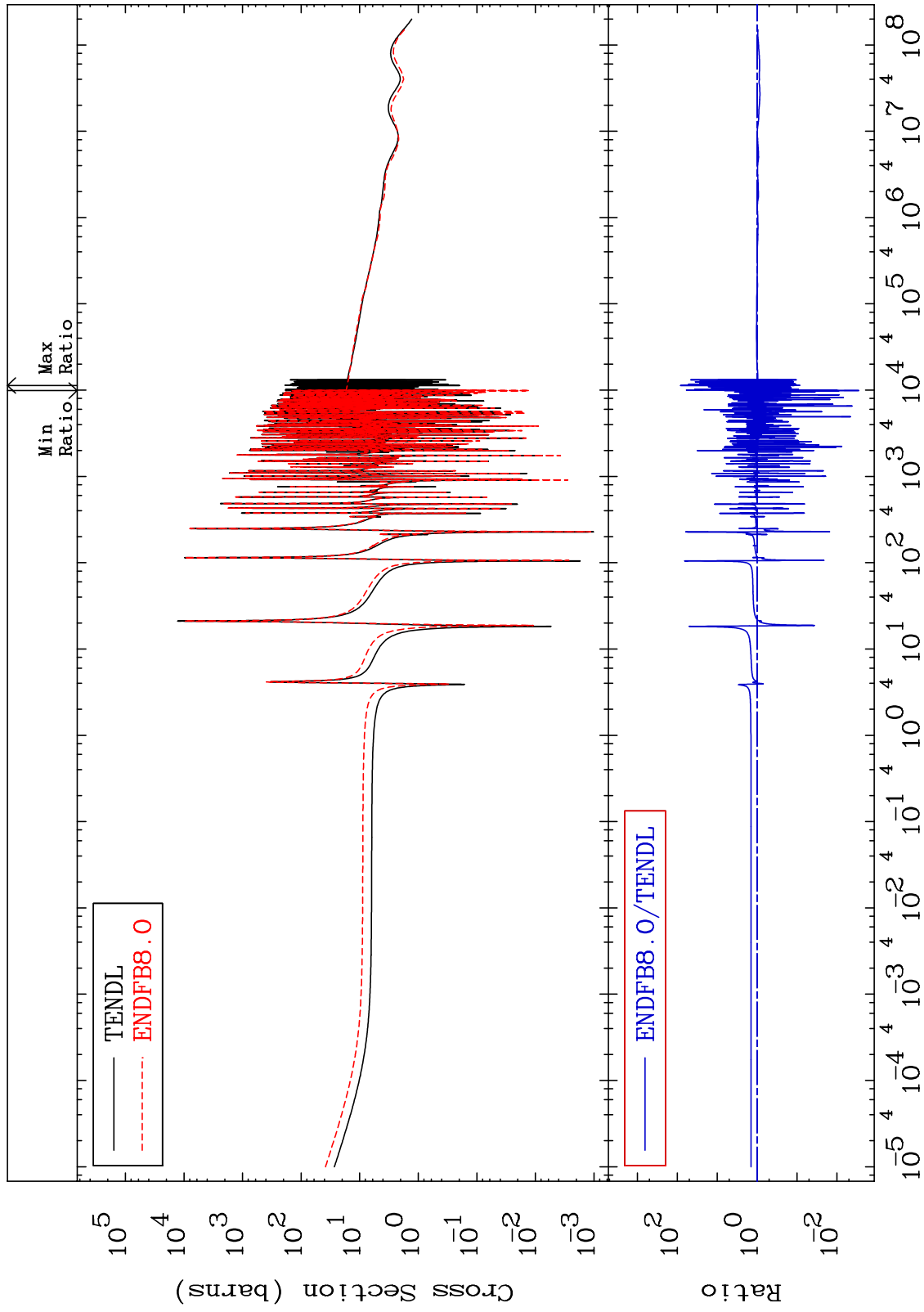
Incident Energy (eV)

74-W -182

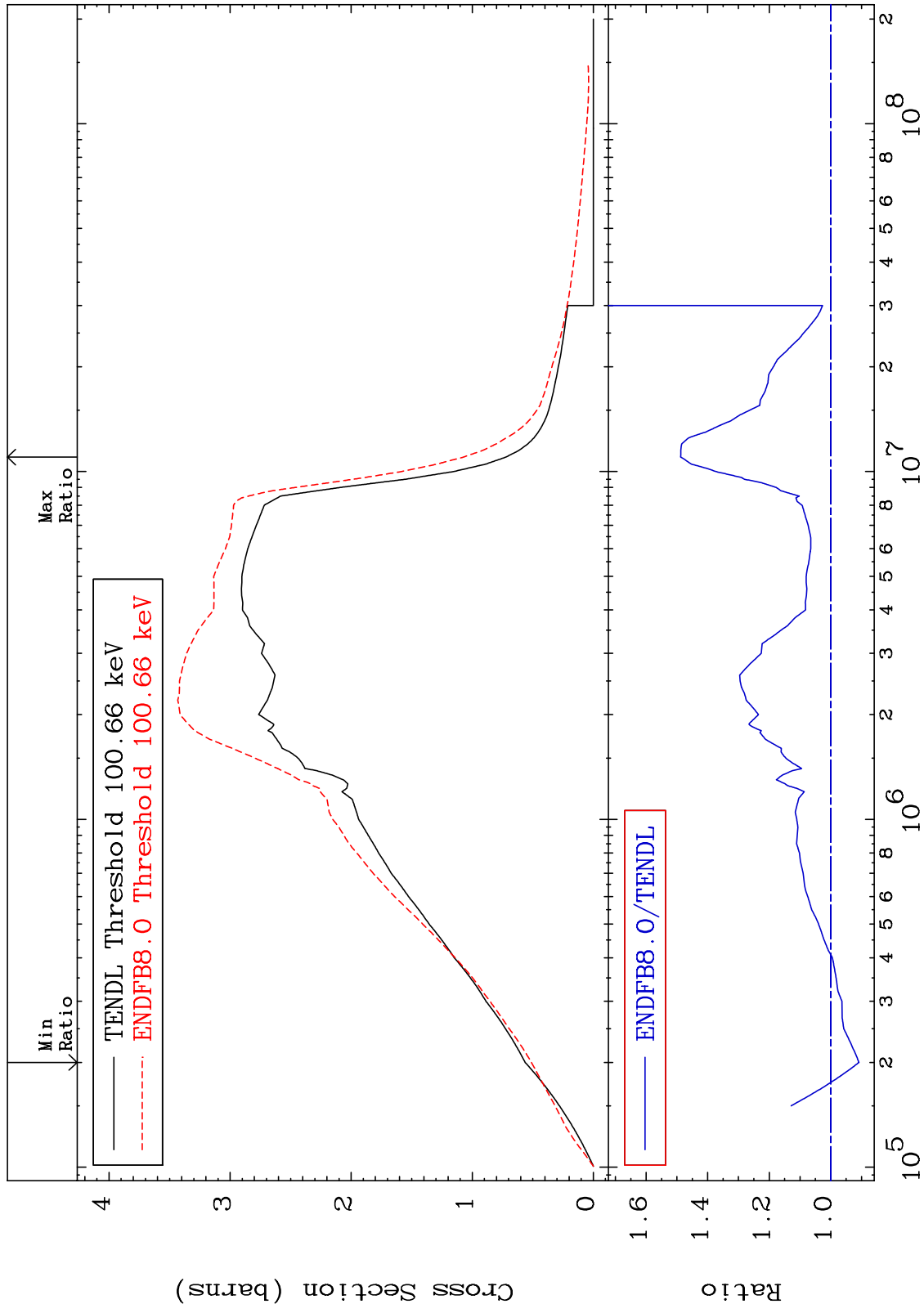
MAT 7431

Elastic
Cross Section

74-W -182
-99.72 To 8148. %



MAT 7431 Inelastic Cross Section 74-W -182 -9.190 To 48.80 %

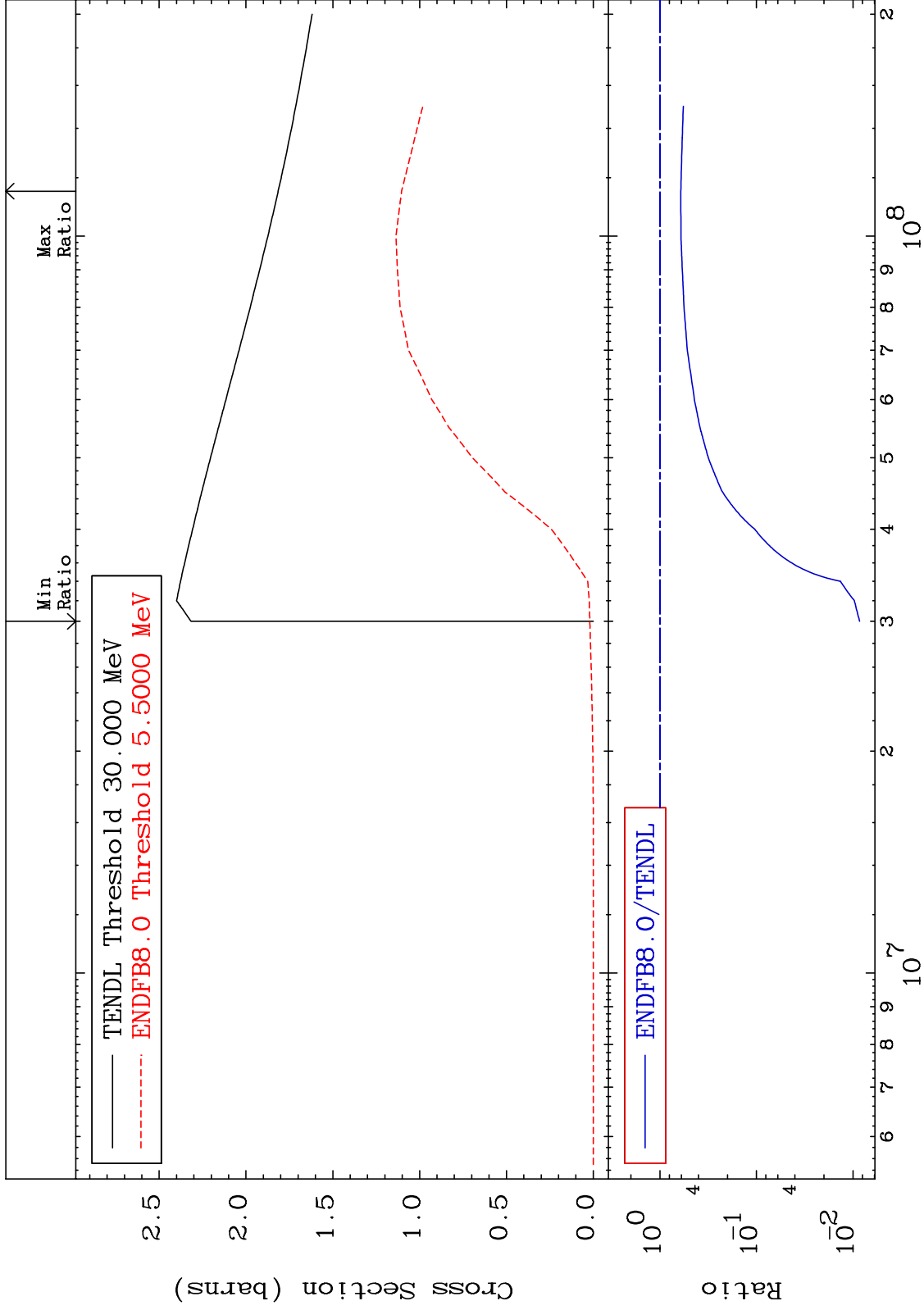


3 Incident Energy (eV) 74-W -182

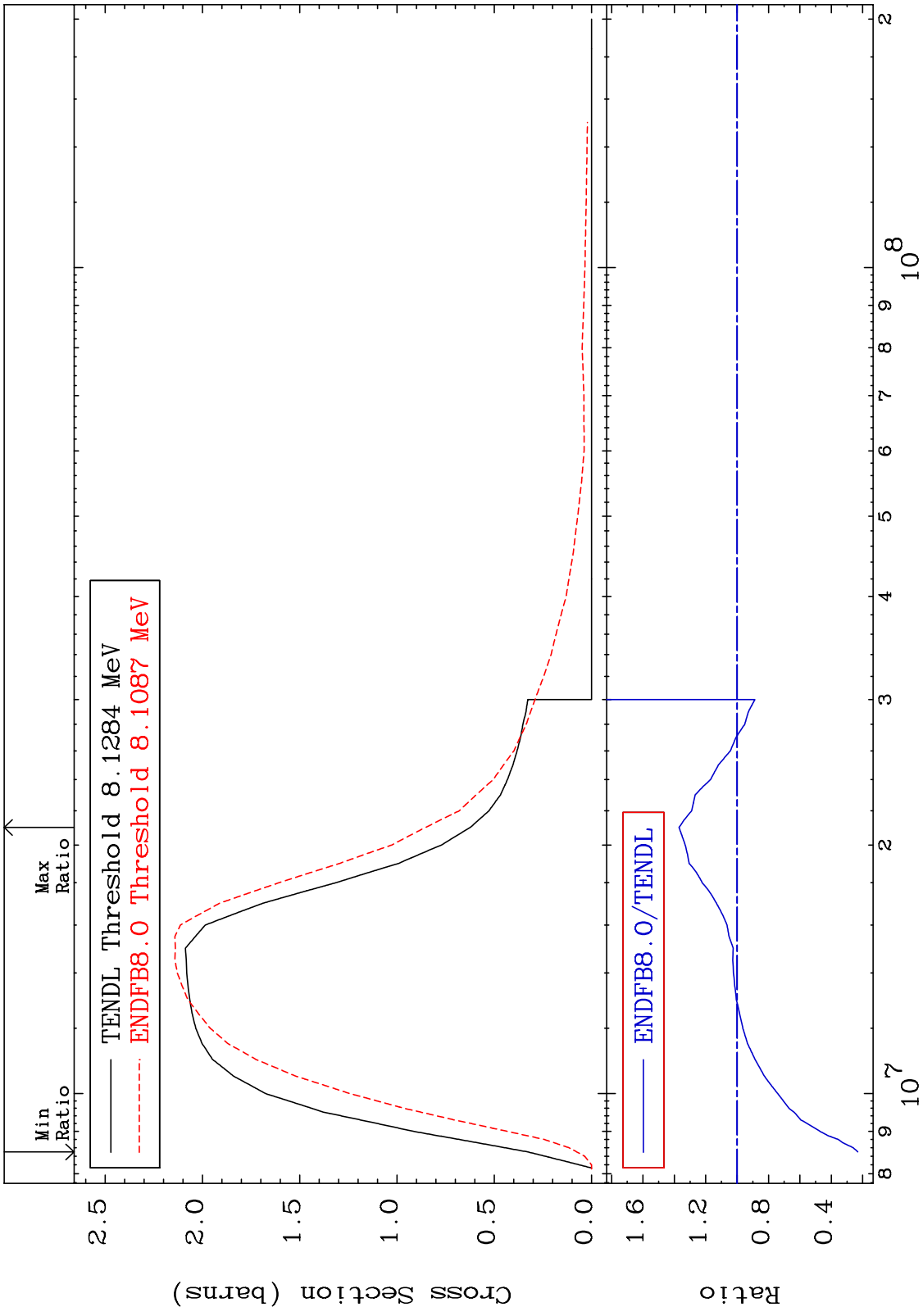
MAT 7431

(n, remainder)
Cross Section

74-W -182
-99.15 To -39.19%

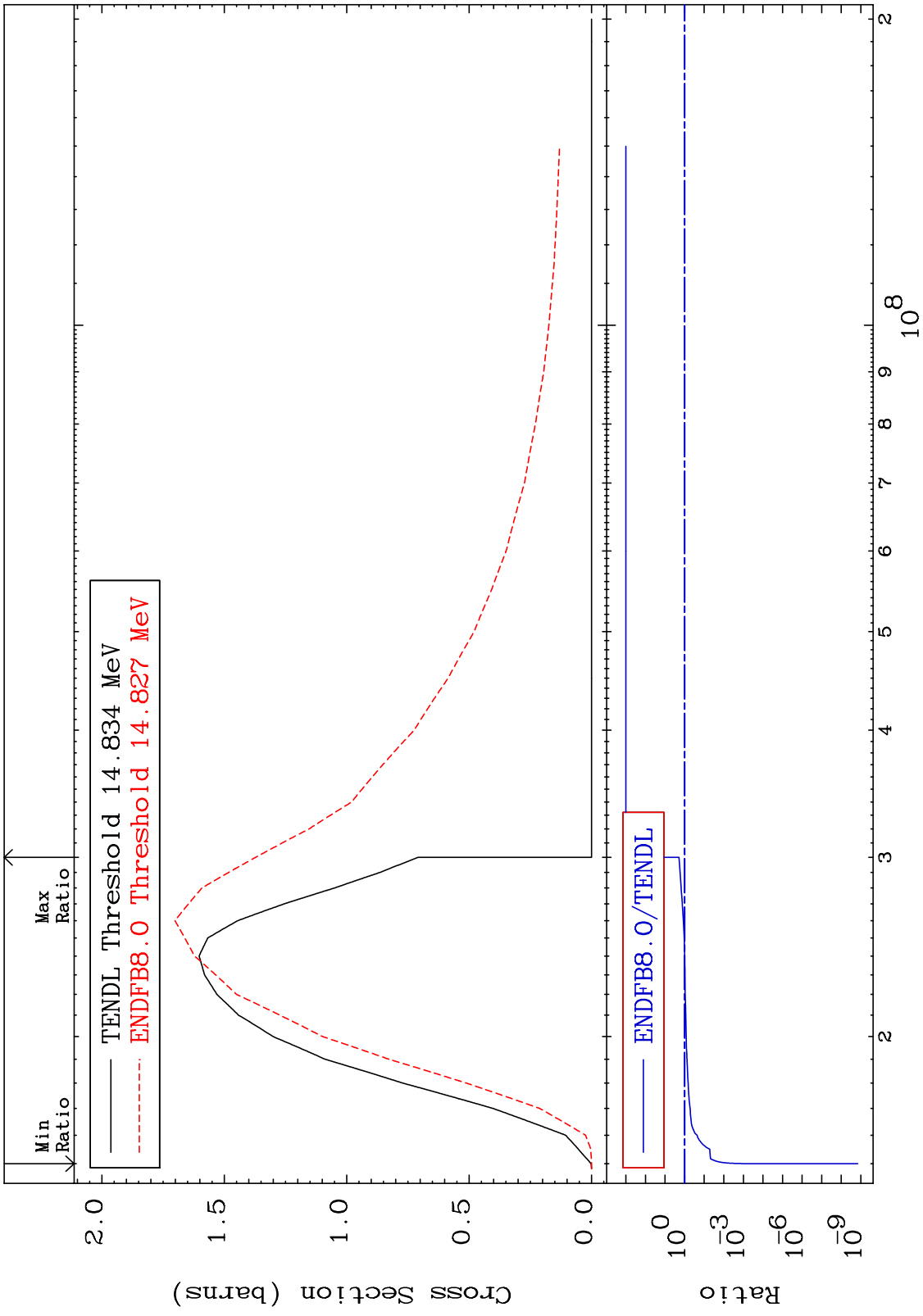


MAT 7431 (n,2n) Cross Section 74-W -182 -76.91 To 37.00 %



5 8 9 10⁷ 2 3 4 5 6 7 8 9 10⁸ 2 74-W -182

MAT 7431 (n,3n) Cross Section 74-W -182 -100.0 To 93.53 %



MAT 7431

(n, n') p

74-W -182

-99.18 To -16.52%

Cross Section

Min Ratio

Max Ratio

TENDL Threshold 7.1361 MeV
ENDFB8.0 Threshold 9.6000 MeV

Cross Section (milli-barns)

70

60

50

40

30

20

10

0

10^0

10^{-1}

10^{-2}

7

8

9

10

11

12

13

7

8

9

10

11

12

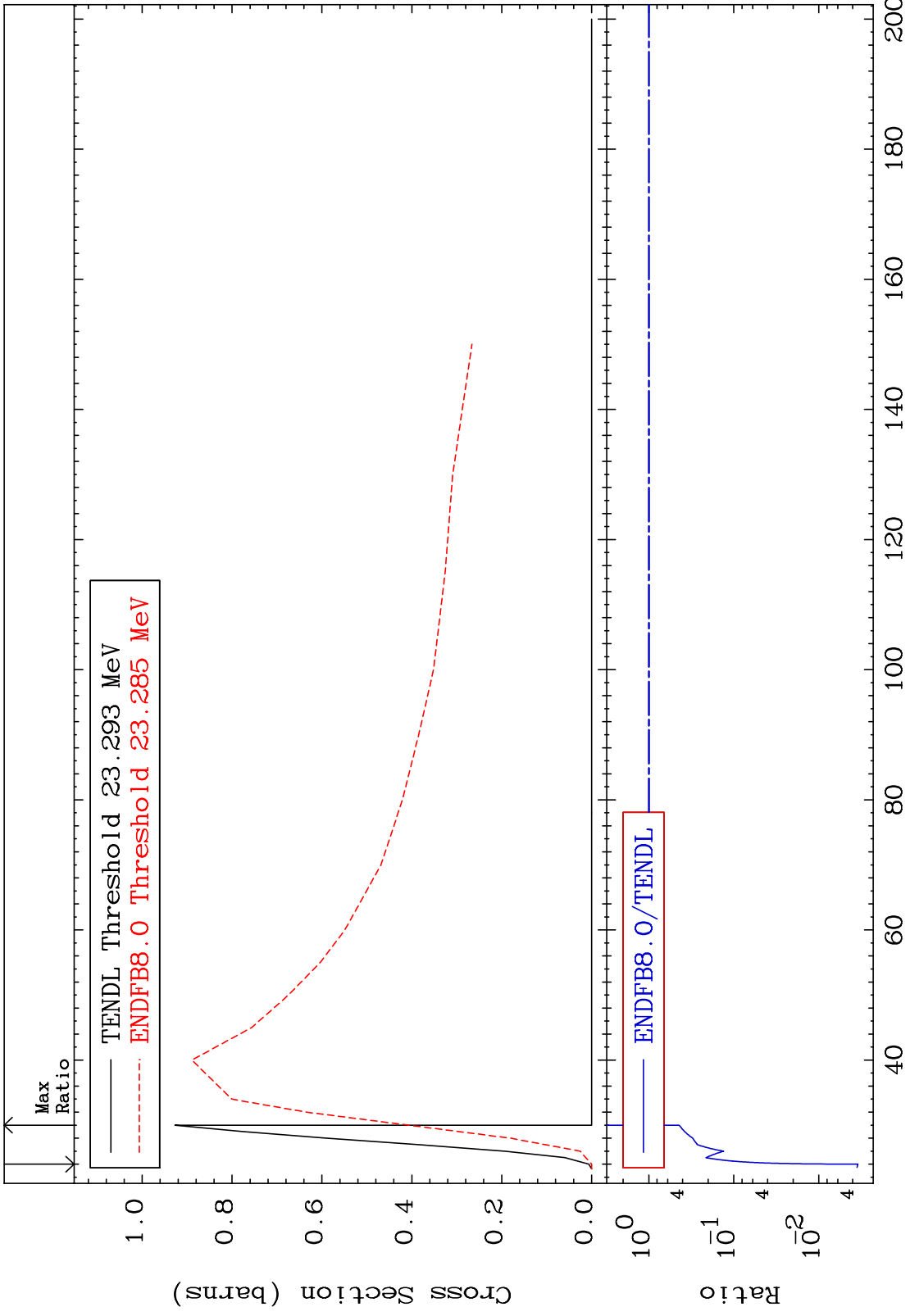
13

Incident Energy (eV)

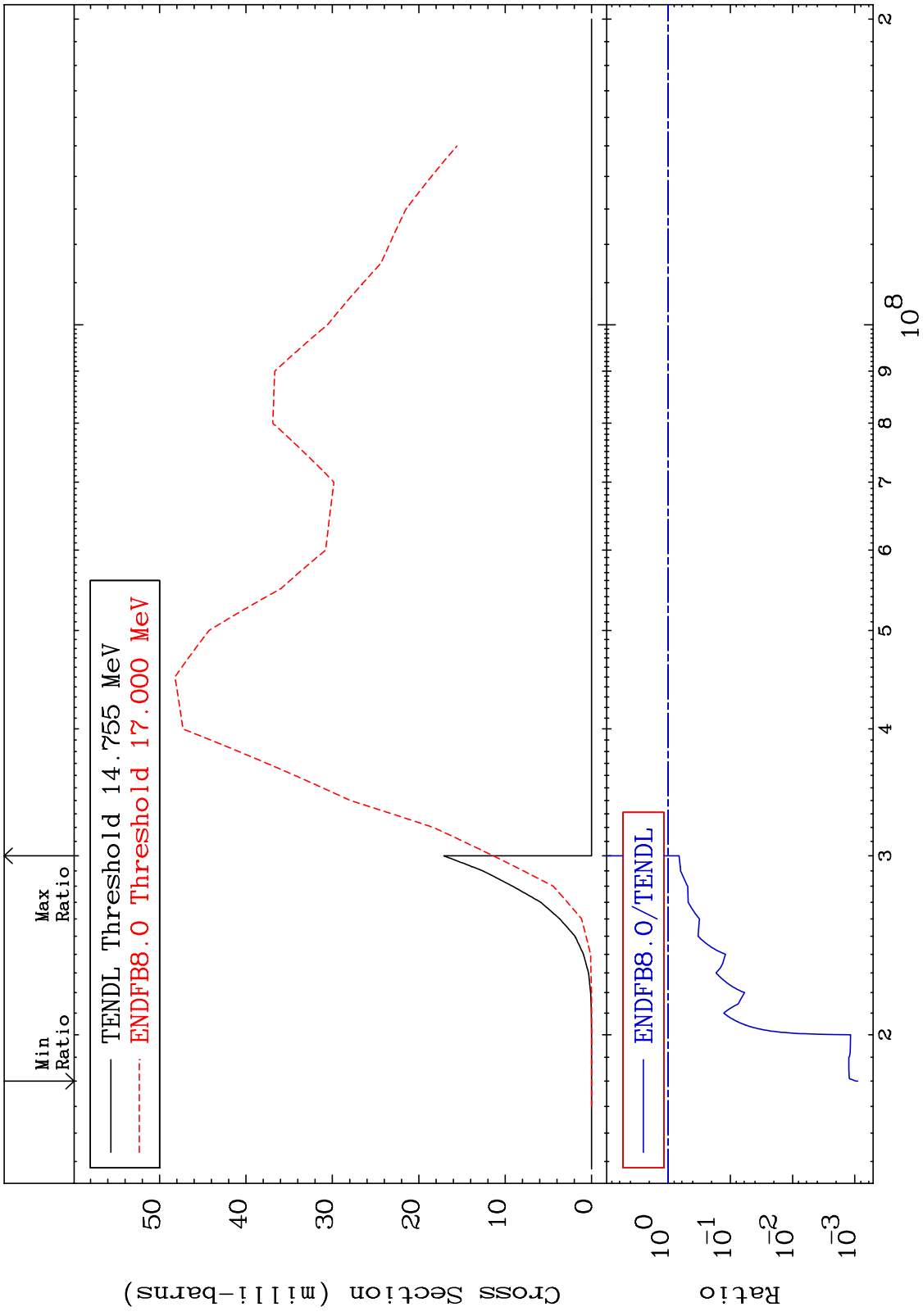
74-W -182

ENDFB8.0/TENDL

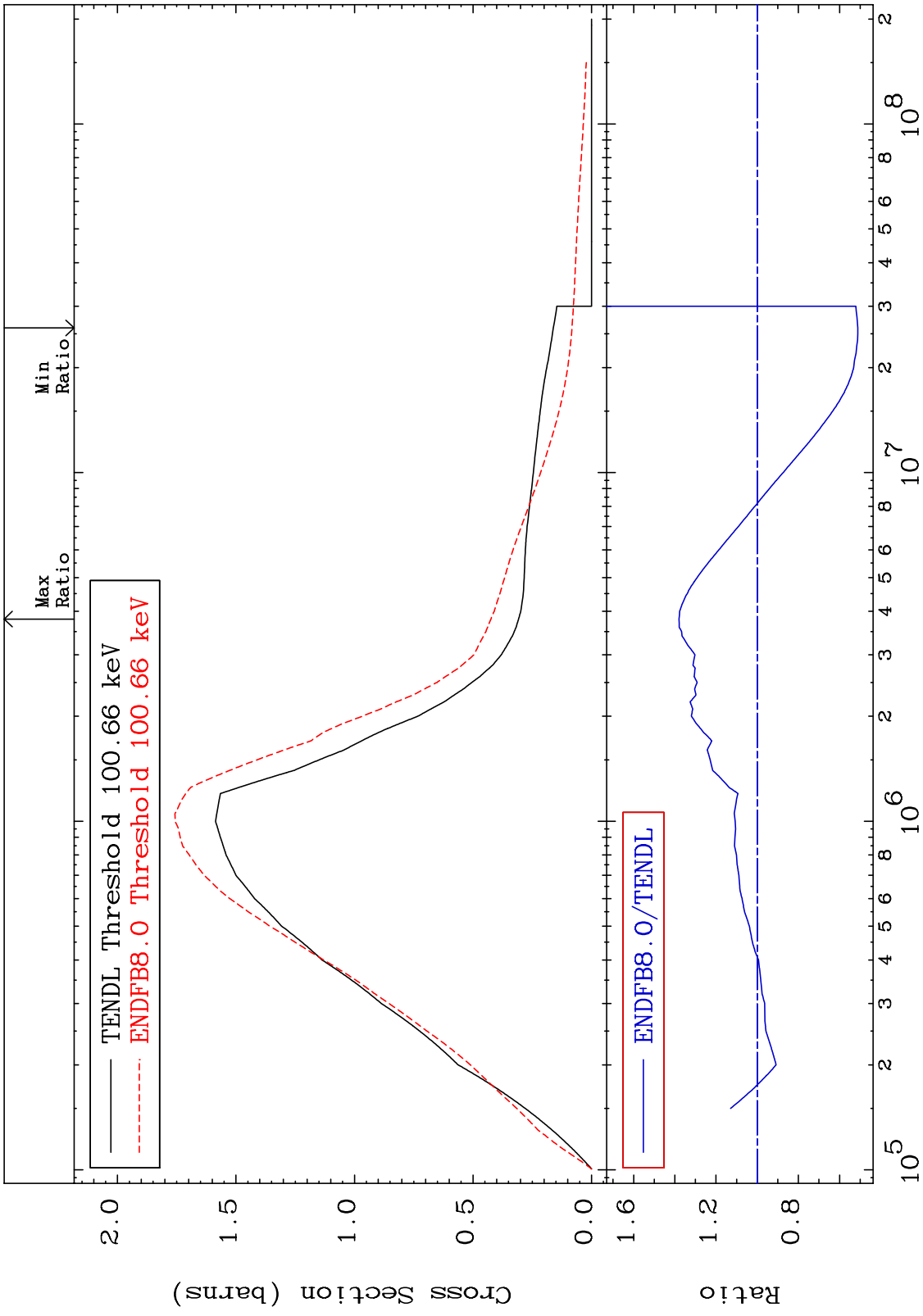
MAT 7431 (n,4n) Cross Section 74-W -182
 -99.65 To -56.02%



MAT 7431 (n,2n) p 74-W -182
 Cross Section -99.91 To -33.47%

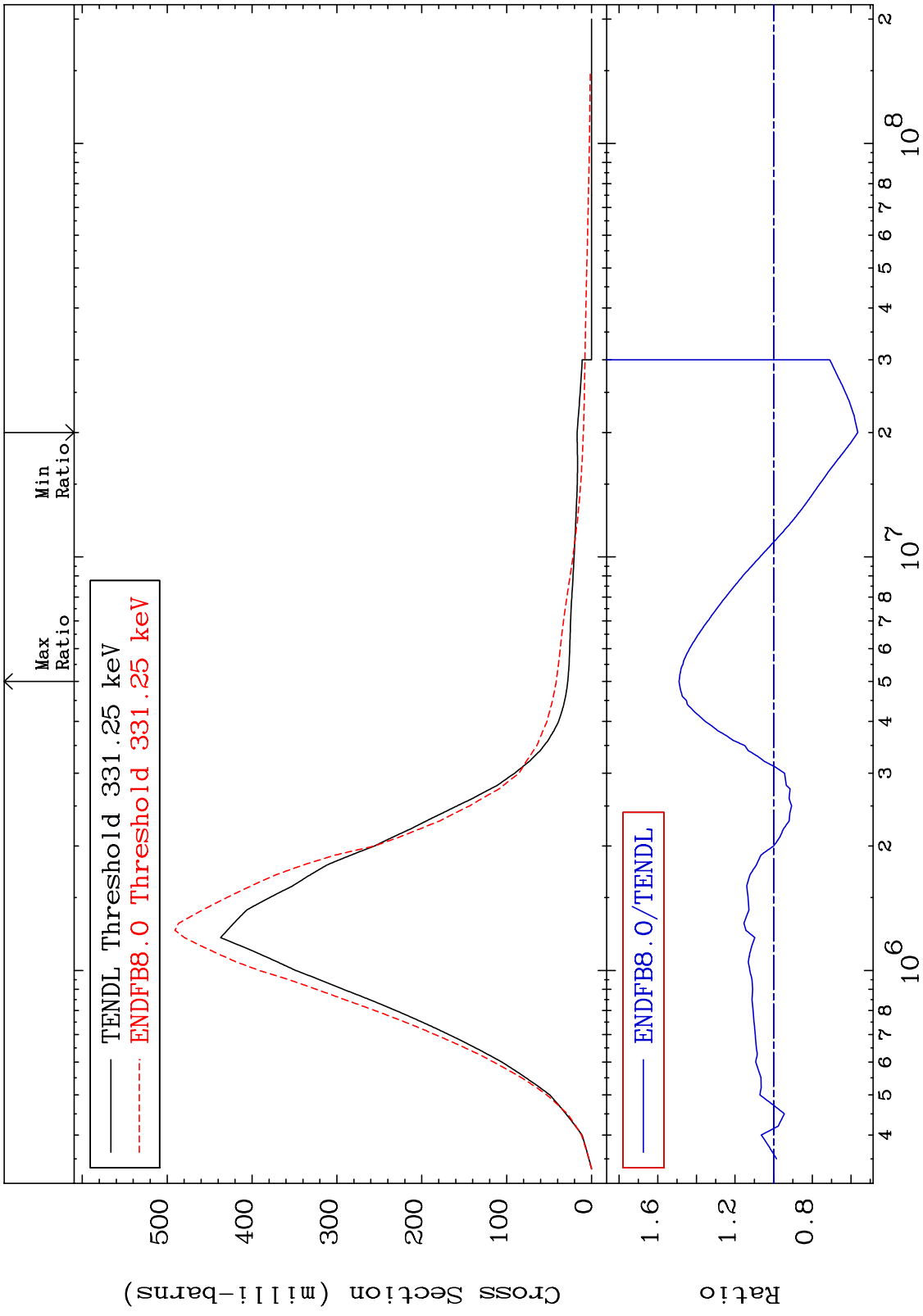


MAT 7431 MT= 51 (n,n') Level Cross Section 74-W -182
 -48.88 To 37.95 %

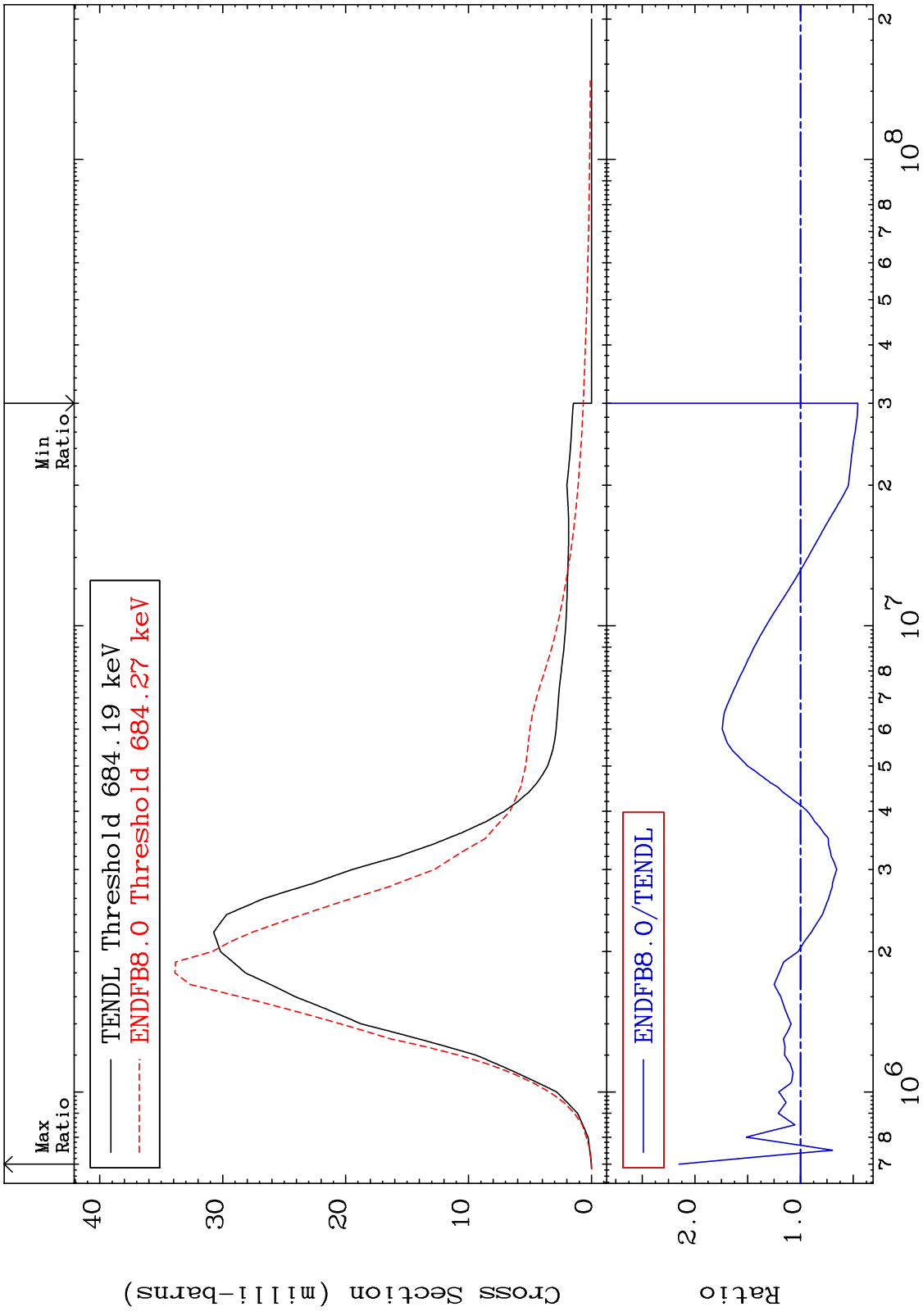


Incident Energy (eV) 74-W -182

MAT 7431 MT= 52 (n,n') Level Cross Section 74-W -182
 -43.59 To 48.97 %

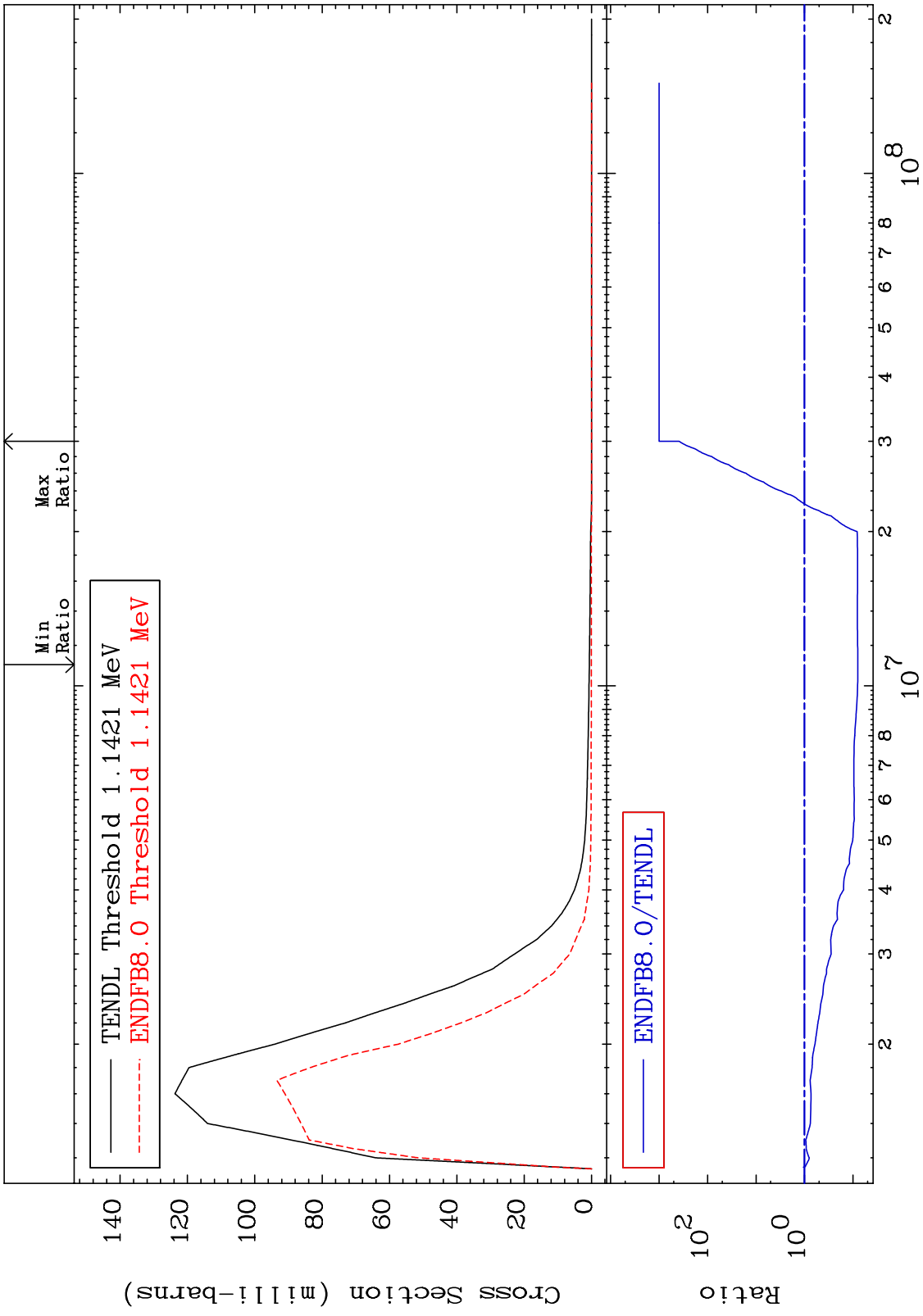


MAT 7431 MT= 53 (n,n') Level Cross Section 74-W -182
 -54.34 To 115.1 %



12 74-W -182

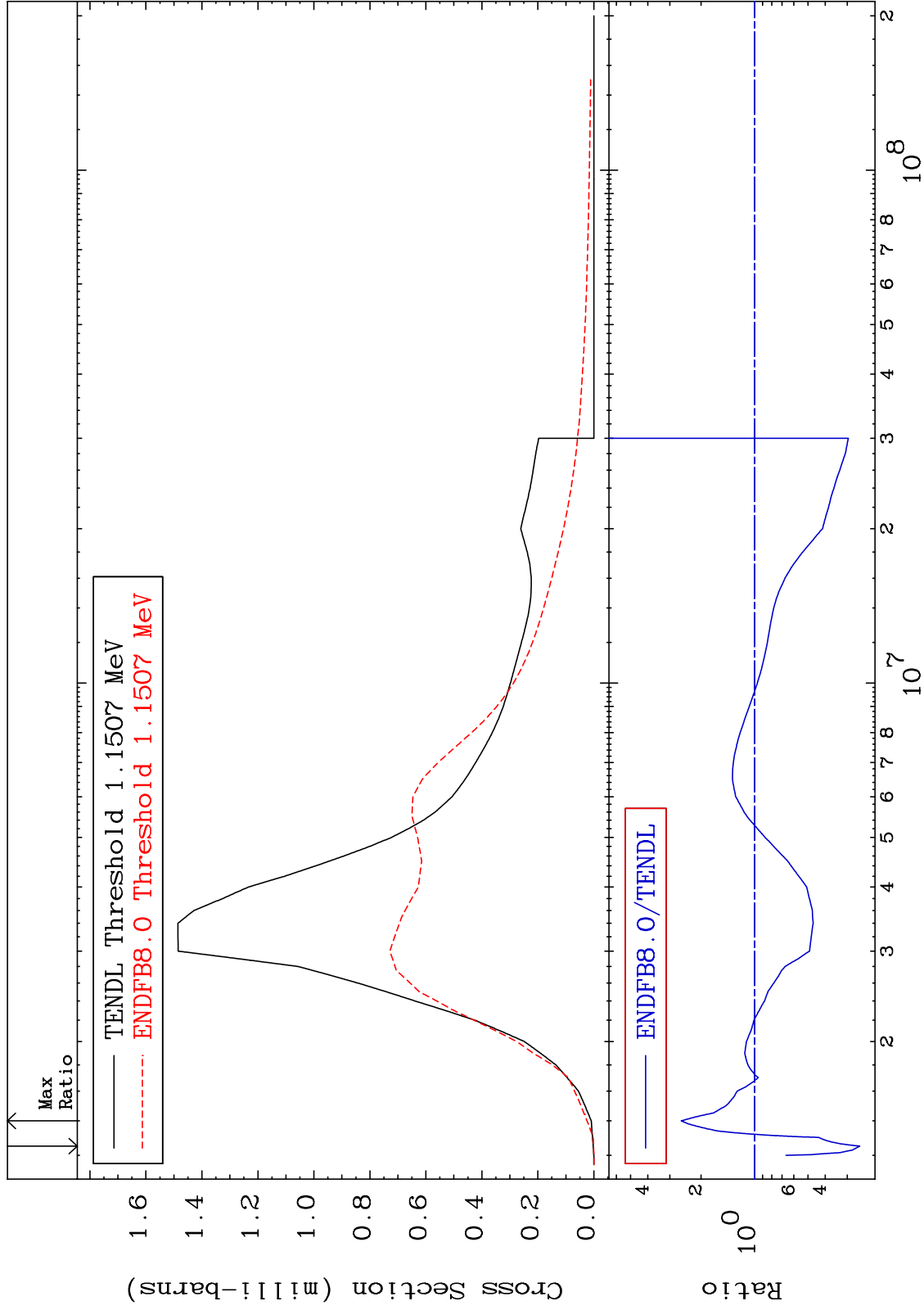
MAT 7431 MT= 54 (n,n') Level Cross Section 74-W -182
 -92.04 To 9999. %



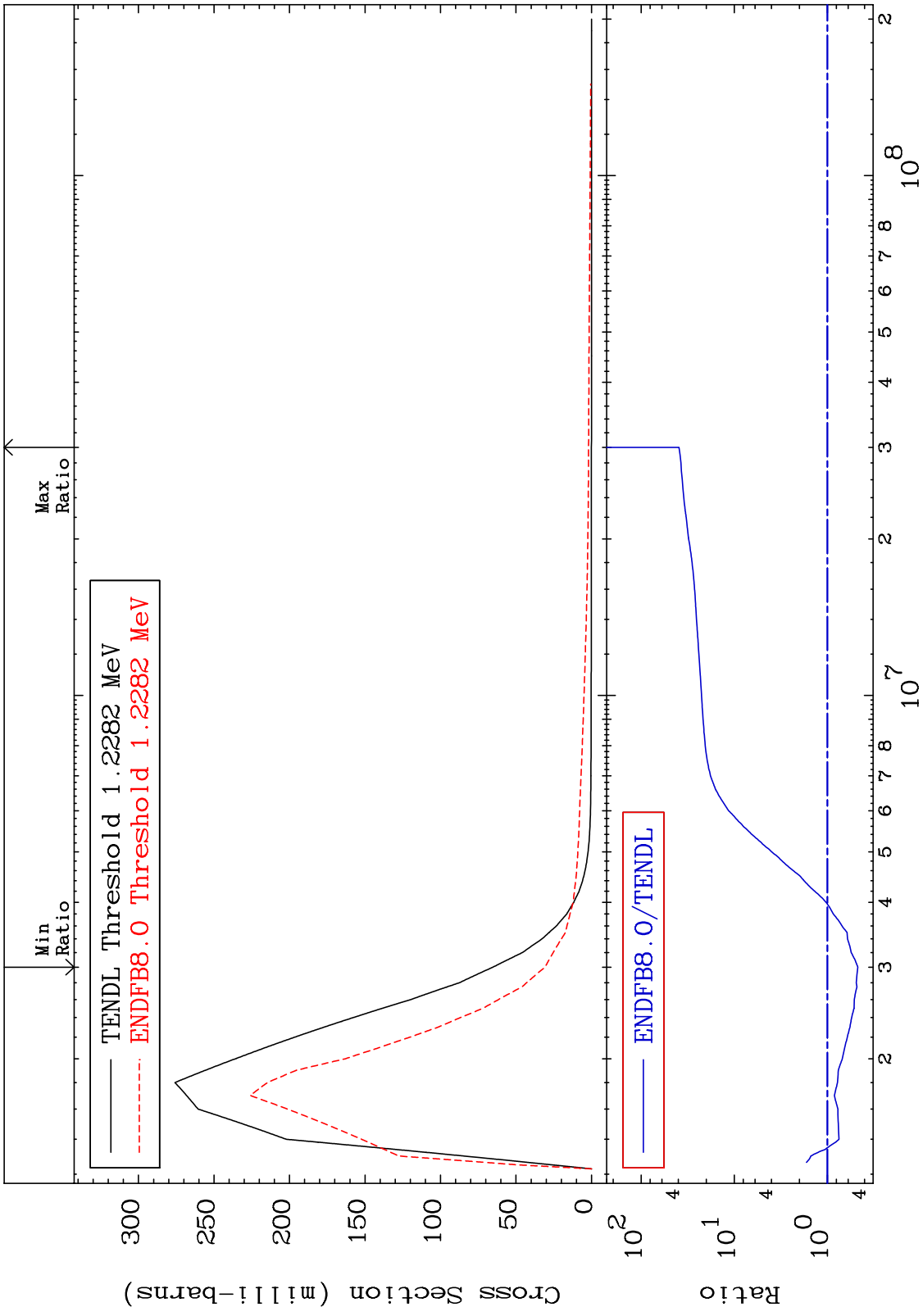
MAT 7431

MT= 55 (n,n') Level
Cross Section

74-W -182
-74.47 To 158.8 %



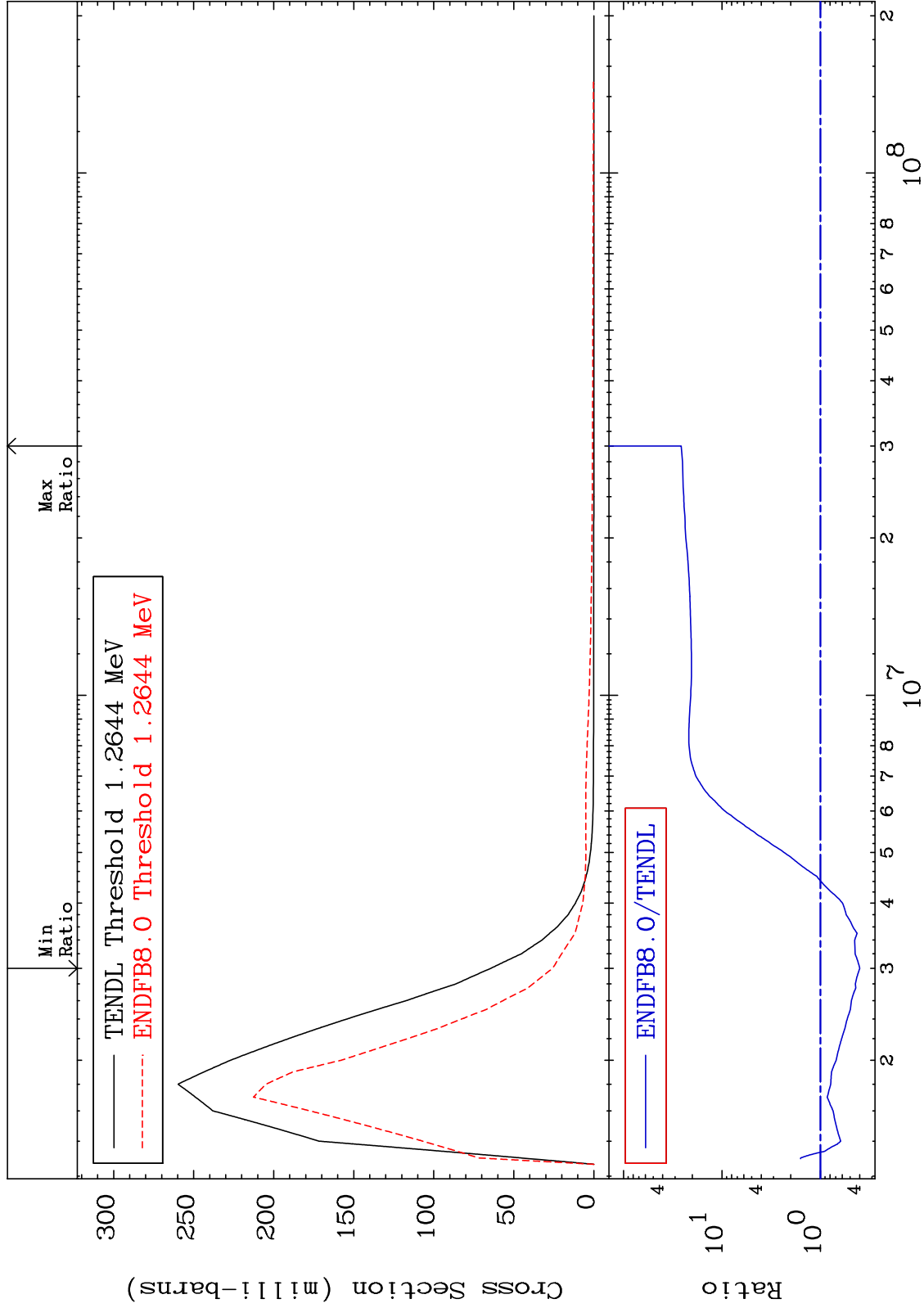
MAT 7431 MT= 56 (n,n') Level Cross Section 74-W -182
 -52.87 To 3822. %



MAT 7431

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

74-W -182
-60.09 To 2494. %

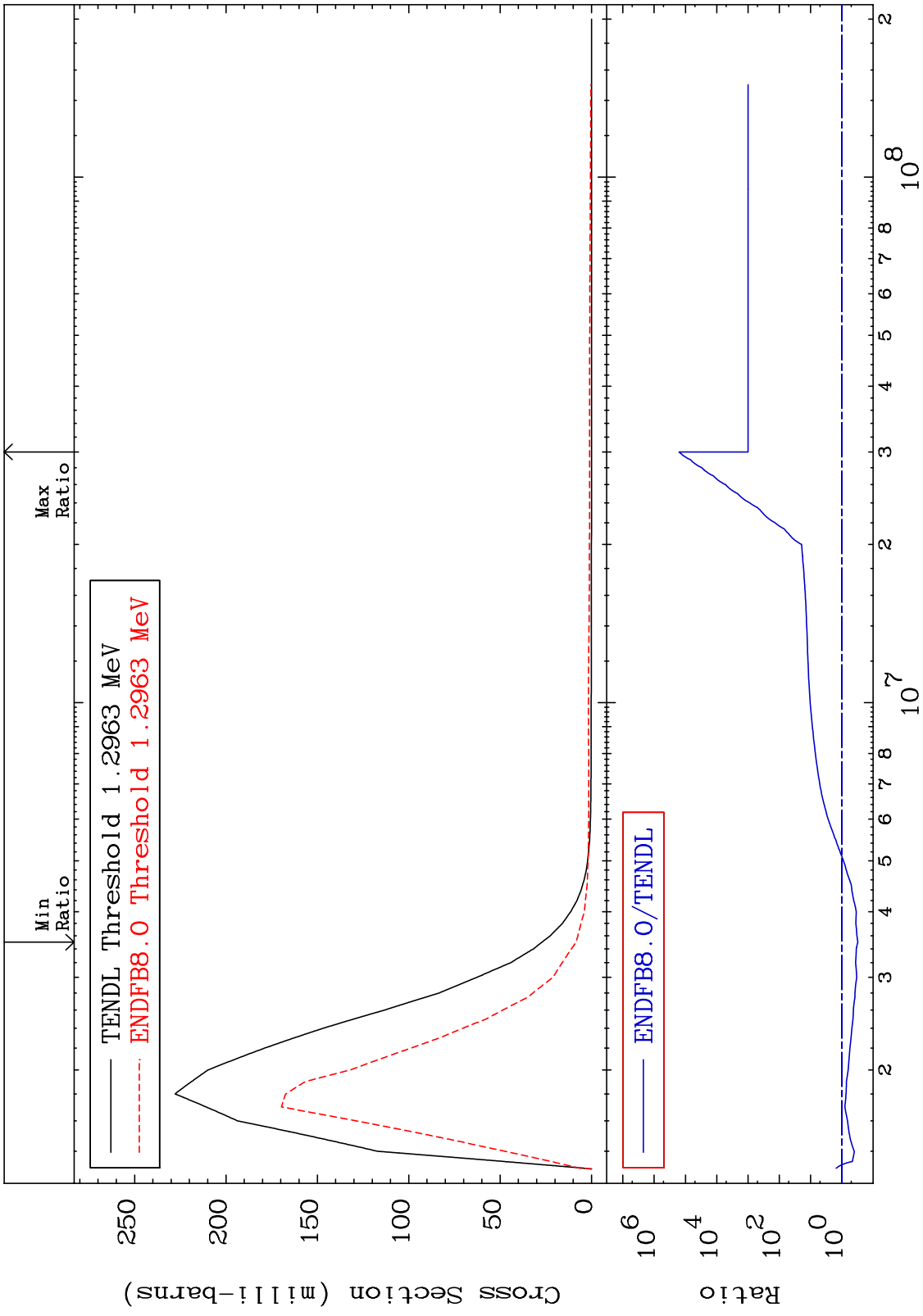


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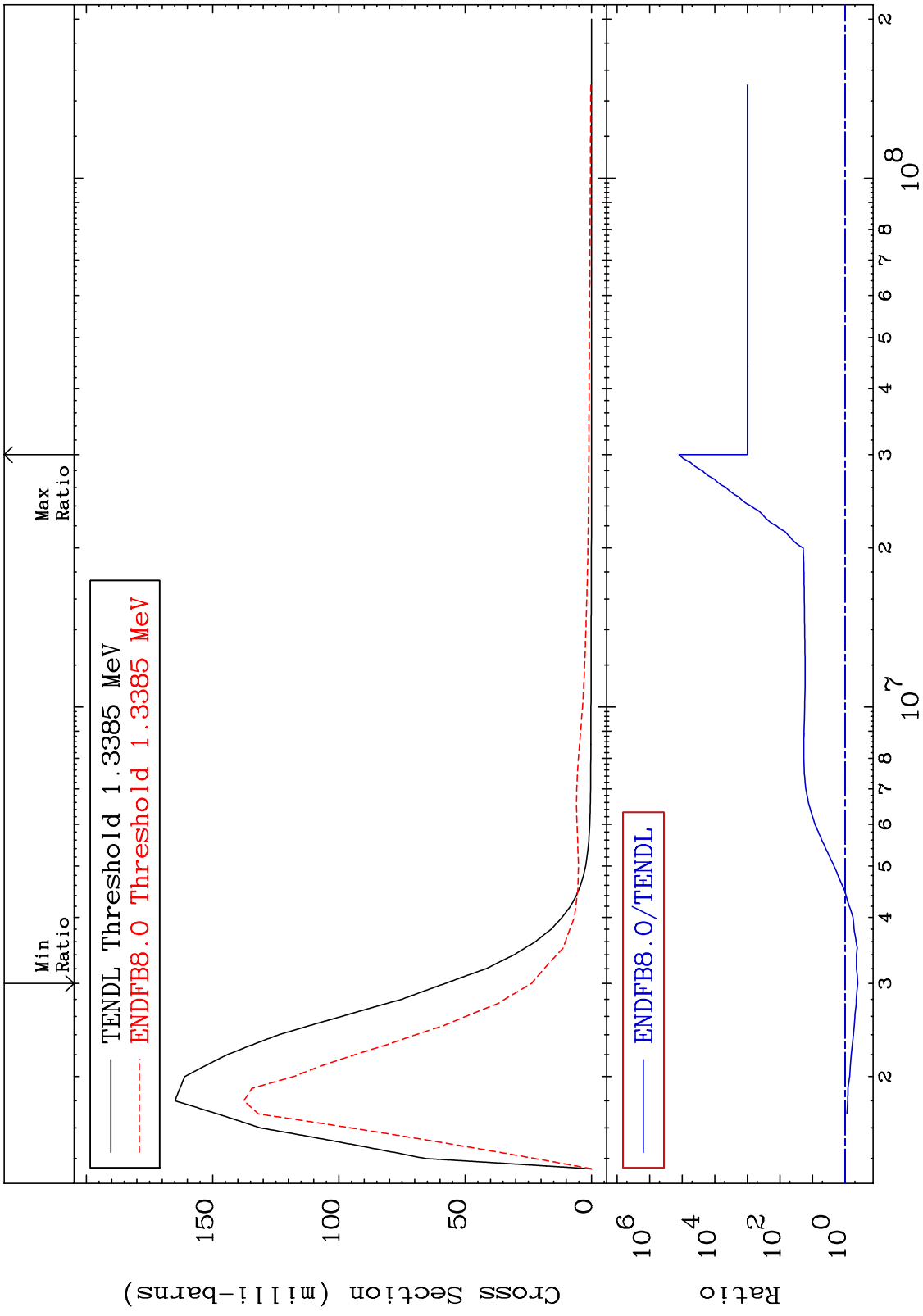
Incident Energy (eV)

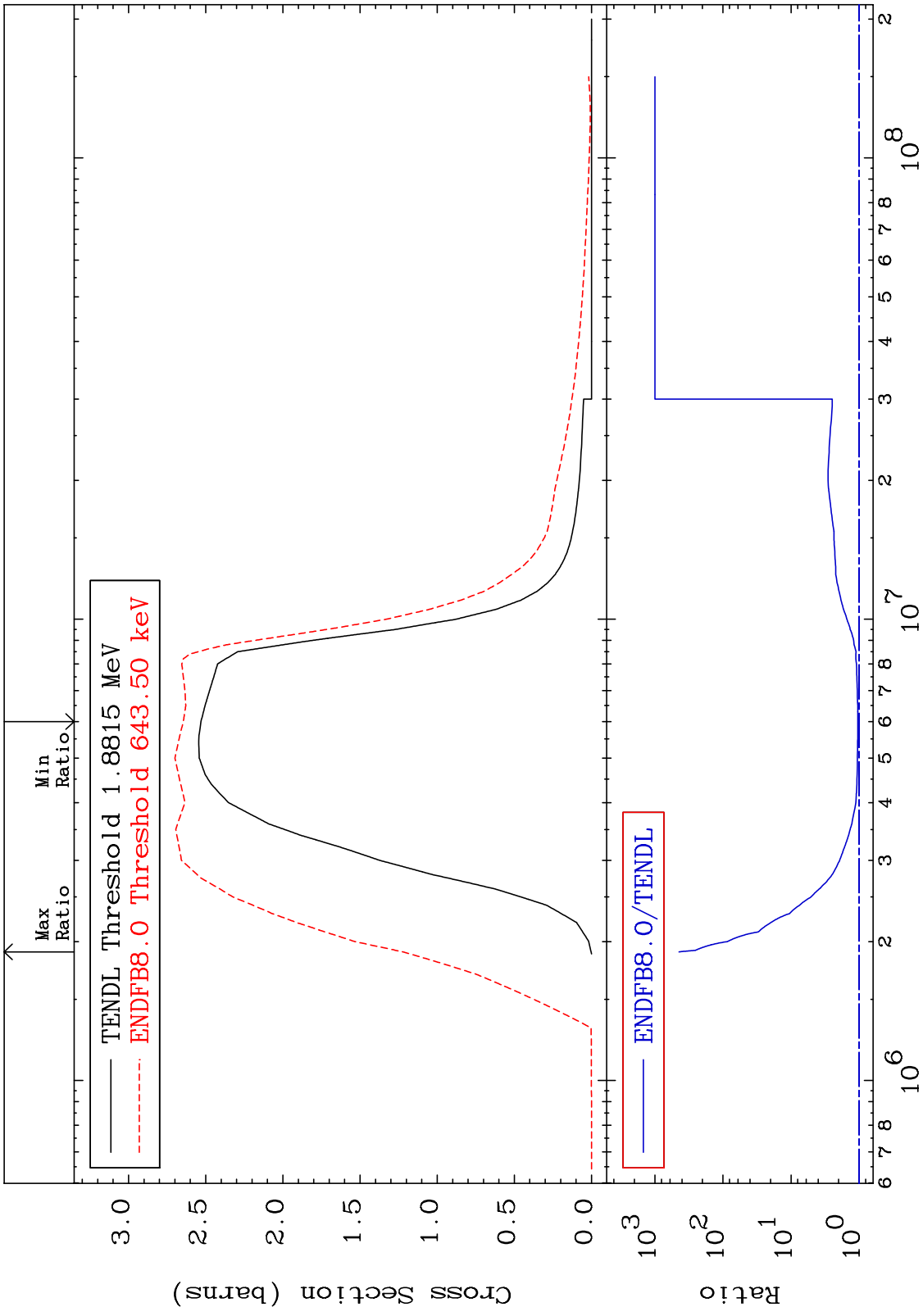
74-W -182

MAT 7431 MT= 58 (n,n') Level Cross Section 74-W -182
 -69.06 To 9999. %



MAT 7431 MT= 59 (n,n') Level Cross Section 74-W -182
 -59.02 To 9999. %





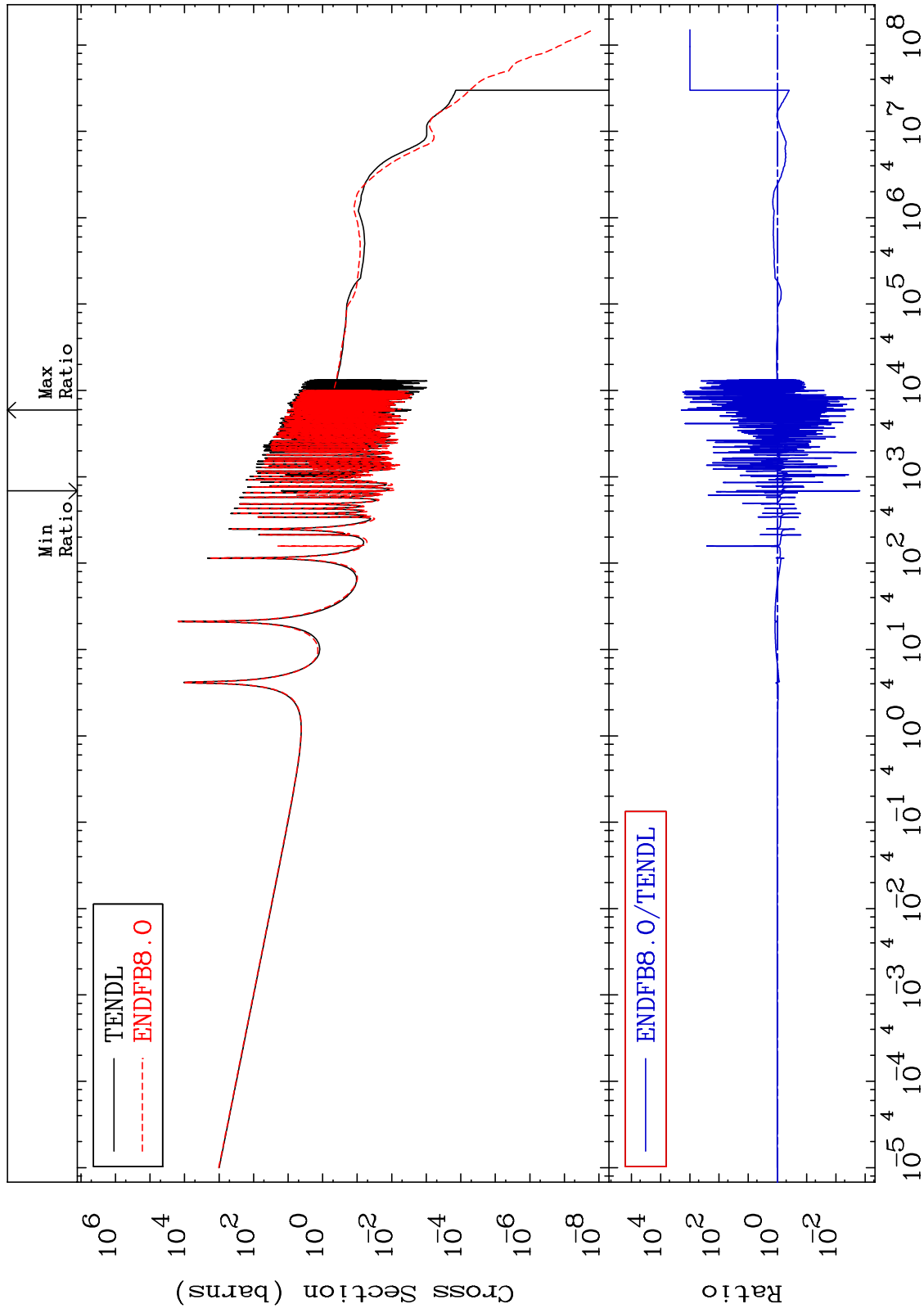
MAT 7431

(n, γ)

74-W -182

Cross Section

-99.85 To 9999. %



MAT 7431

(n,p)

74-W -182

-98.08 To 8.632 %

Cross Section

Min Ratio

Max Ratio

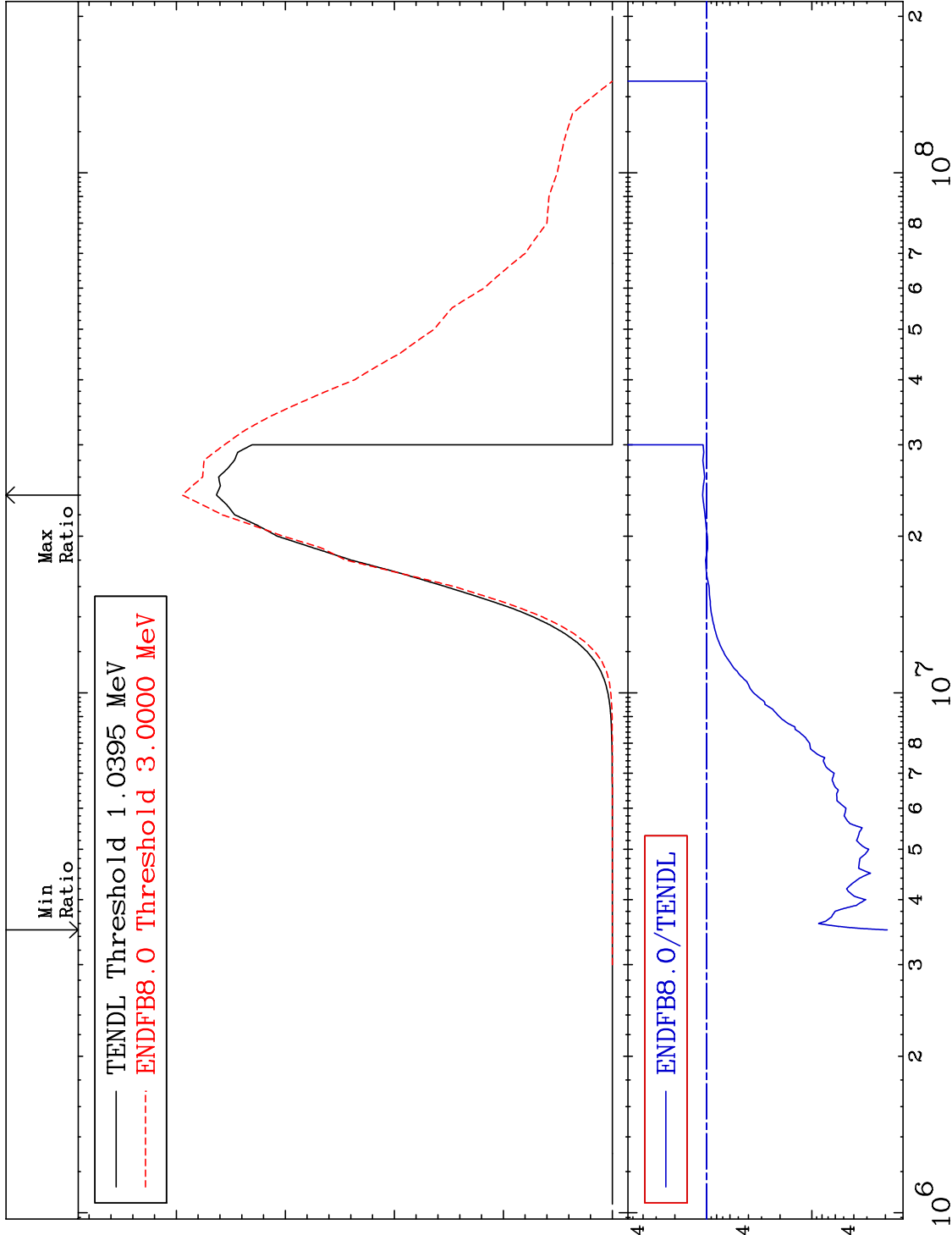
TENDL Threshold 1.0395 MeV
ENDFB8.0 Threshold 3.0000 MeV

Cross Section (milli-barns)

ENDFB8.0/TENDL

Ratio

21



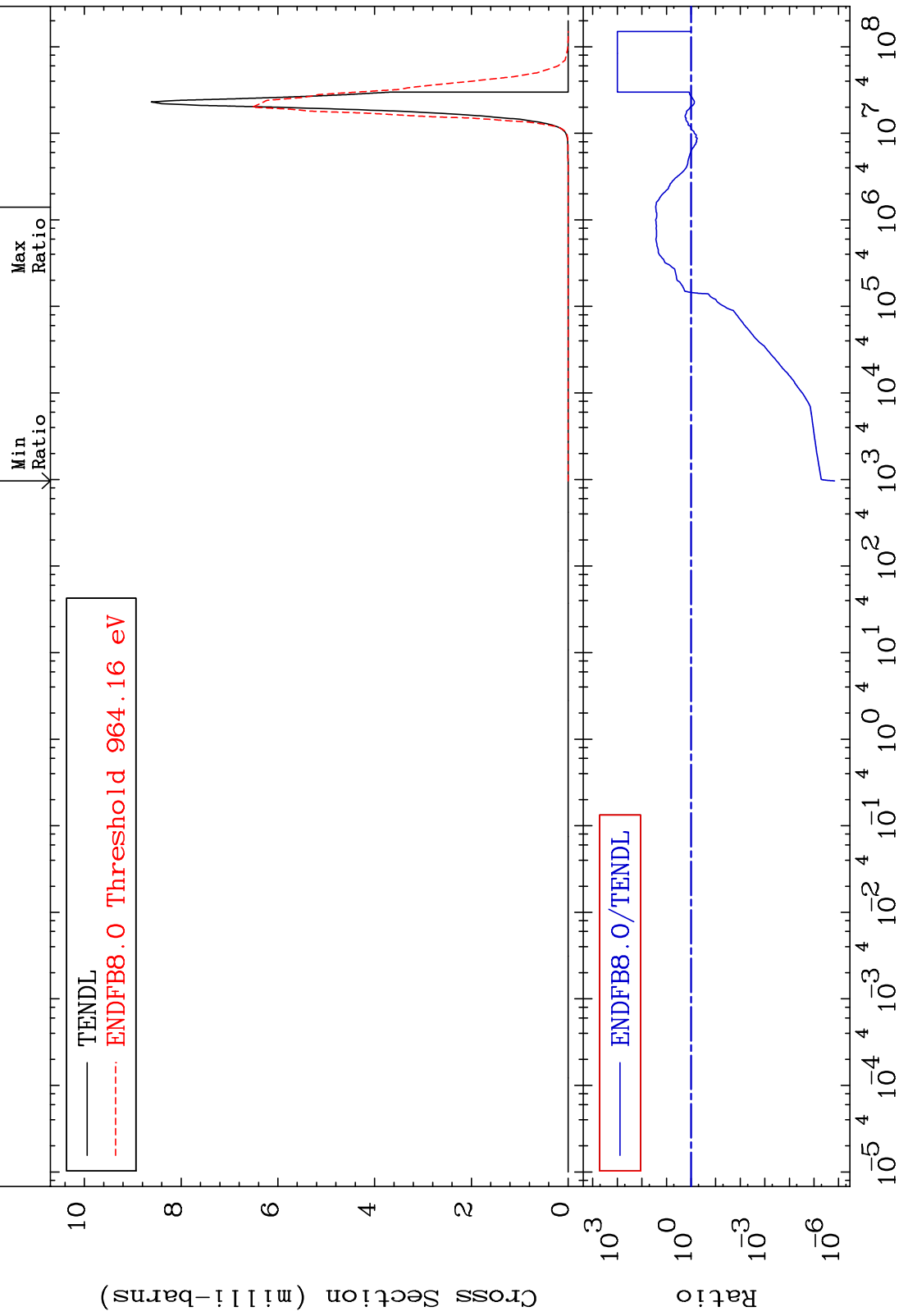
MAT 7431

(n, α)

74-W -182

Cross Section

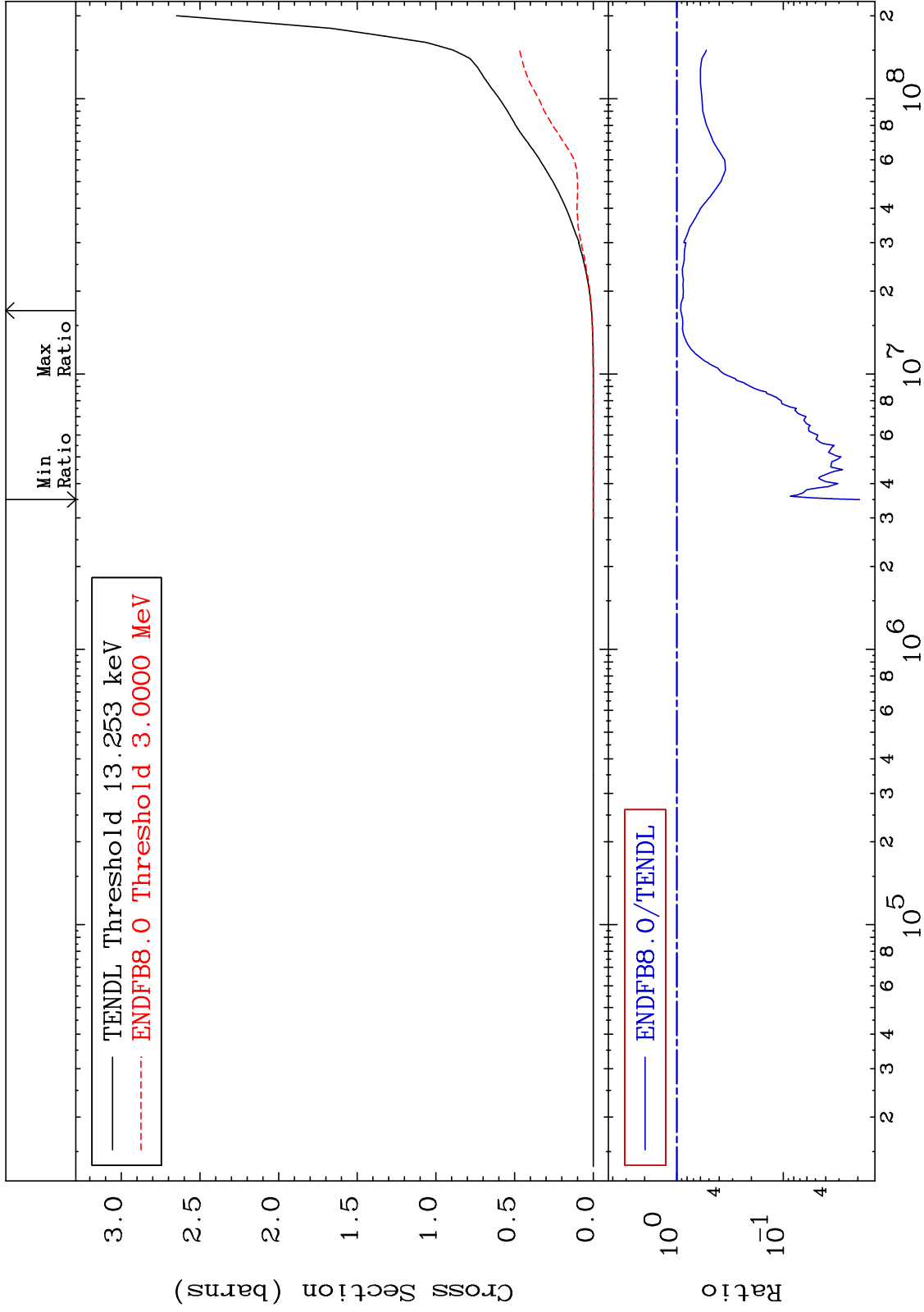
-100.0 To 2641. %



MAT 7431

Hydrogen Production
Cross Section

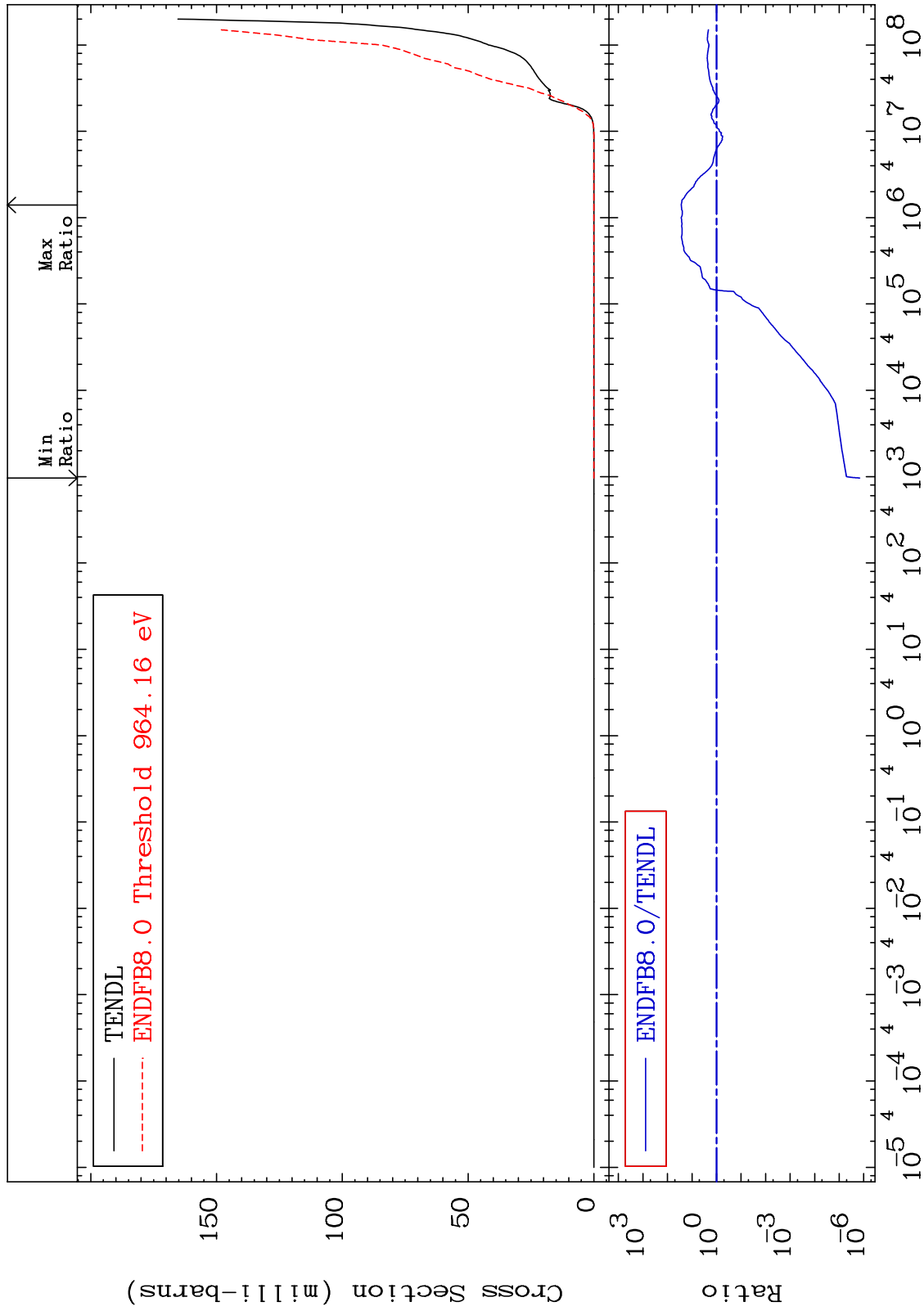
74-W -182
-98.08 To -8.267%



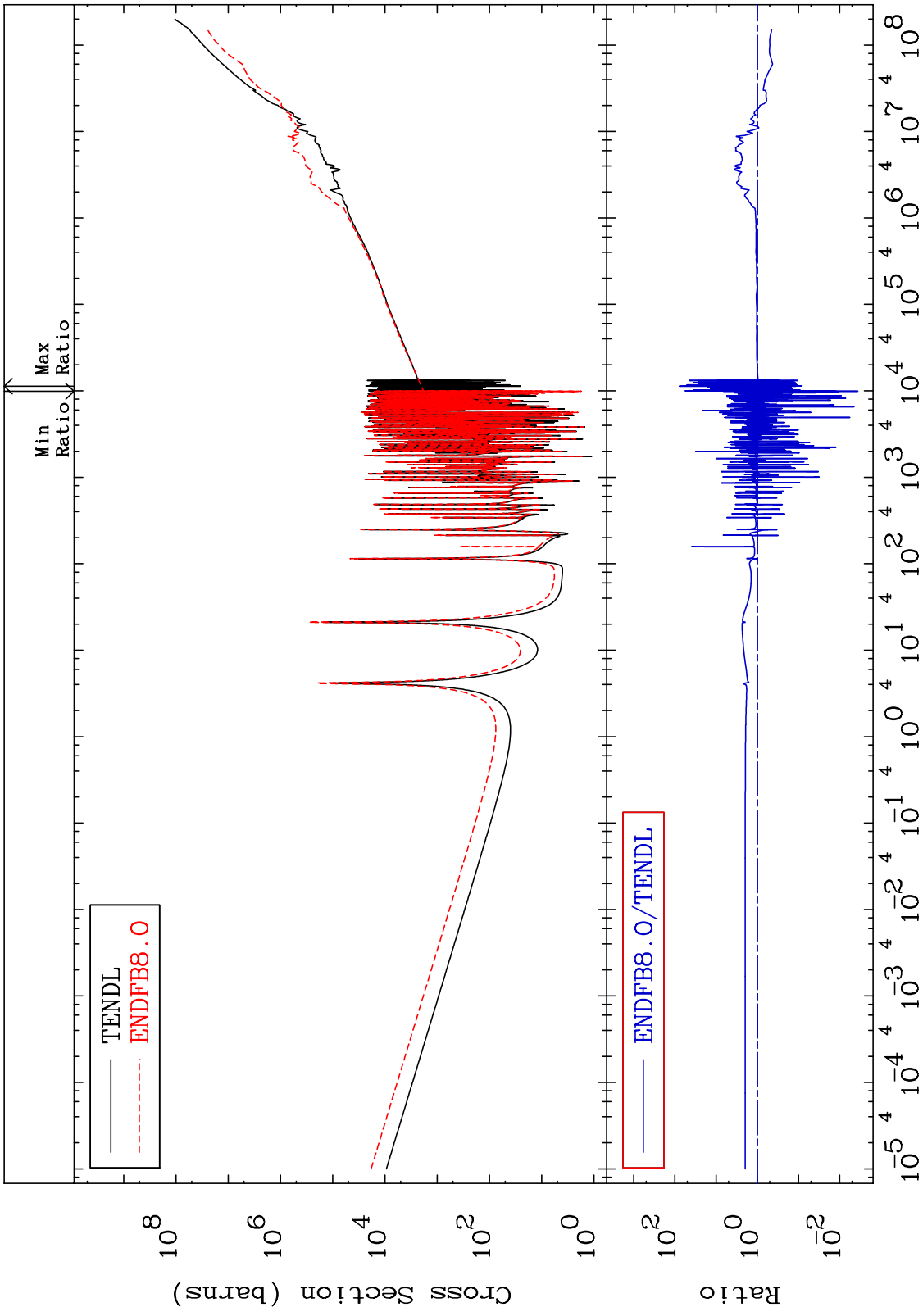
MAT 7431

He-4 Production
Cross Section

74-W -182
-100.0 To 2641. %



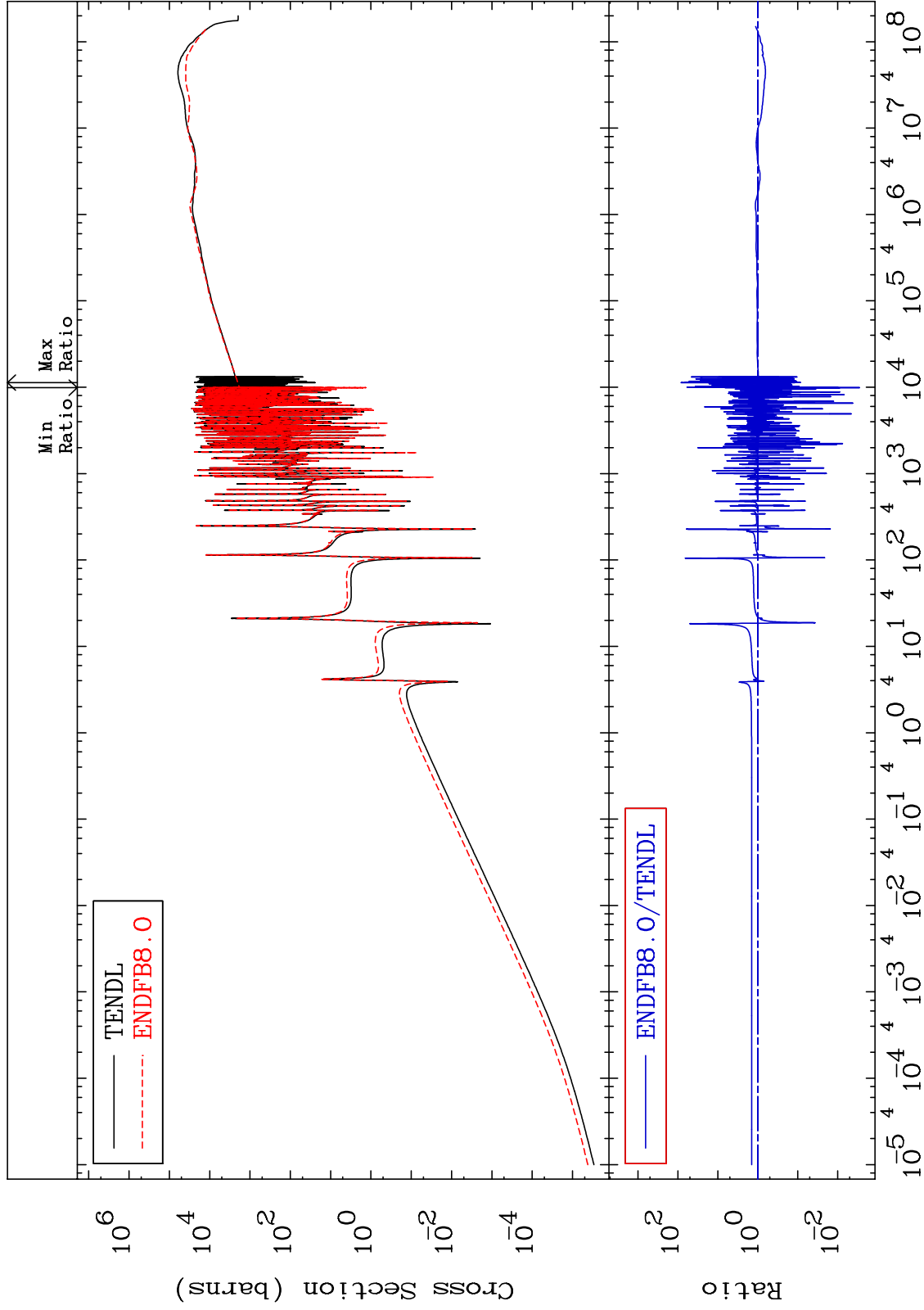
MAT 7431 Kerma total (eV-barns) 74-W -182
 Cross Section -99.64 To 7829. %



MAT 7431

Kerma elastic
Cross Section

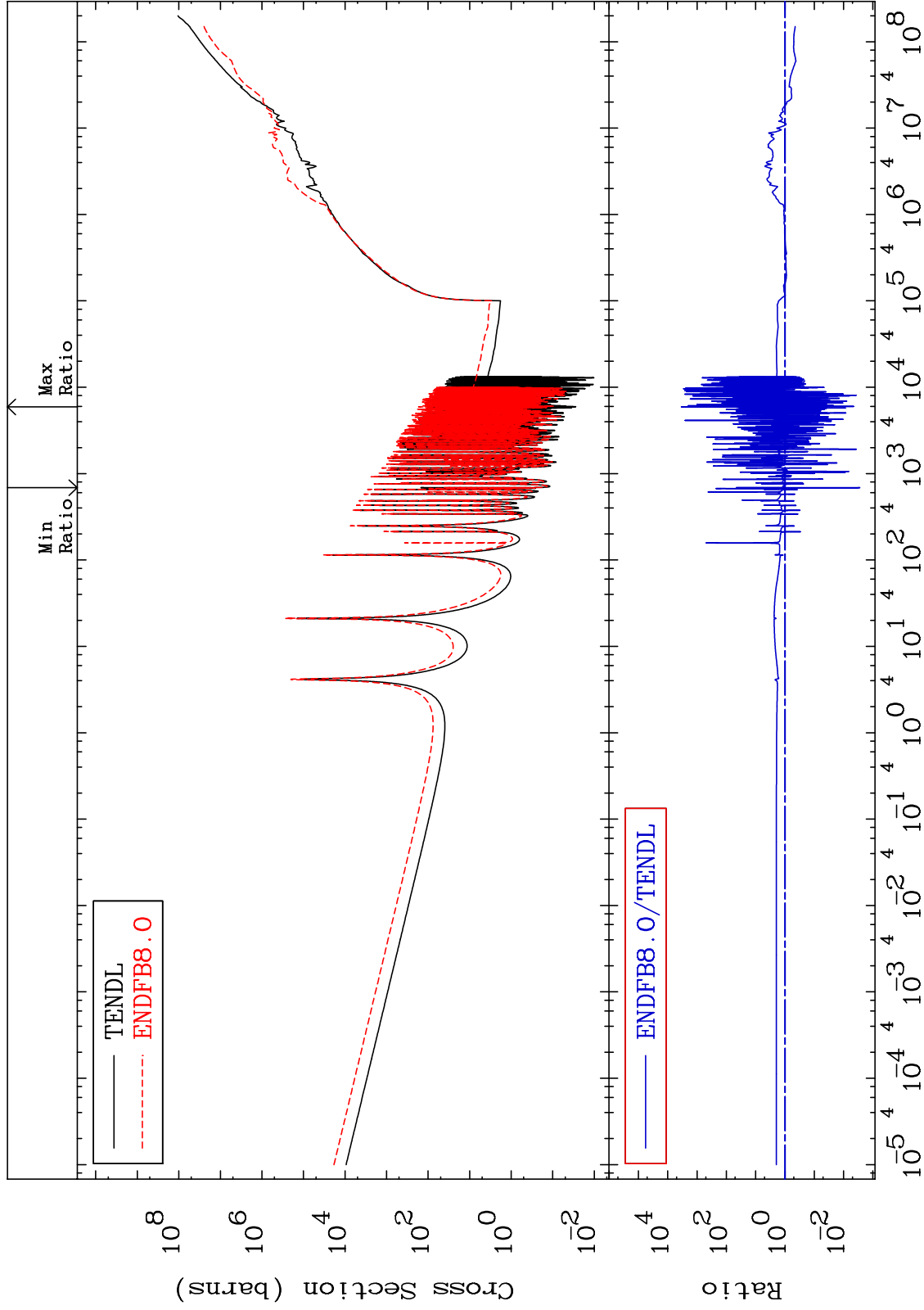
74-W -182
-99.72 To 8129. %



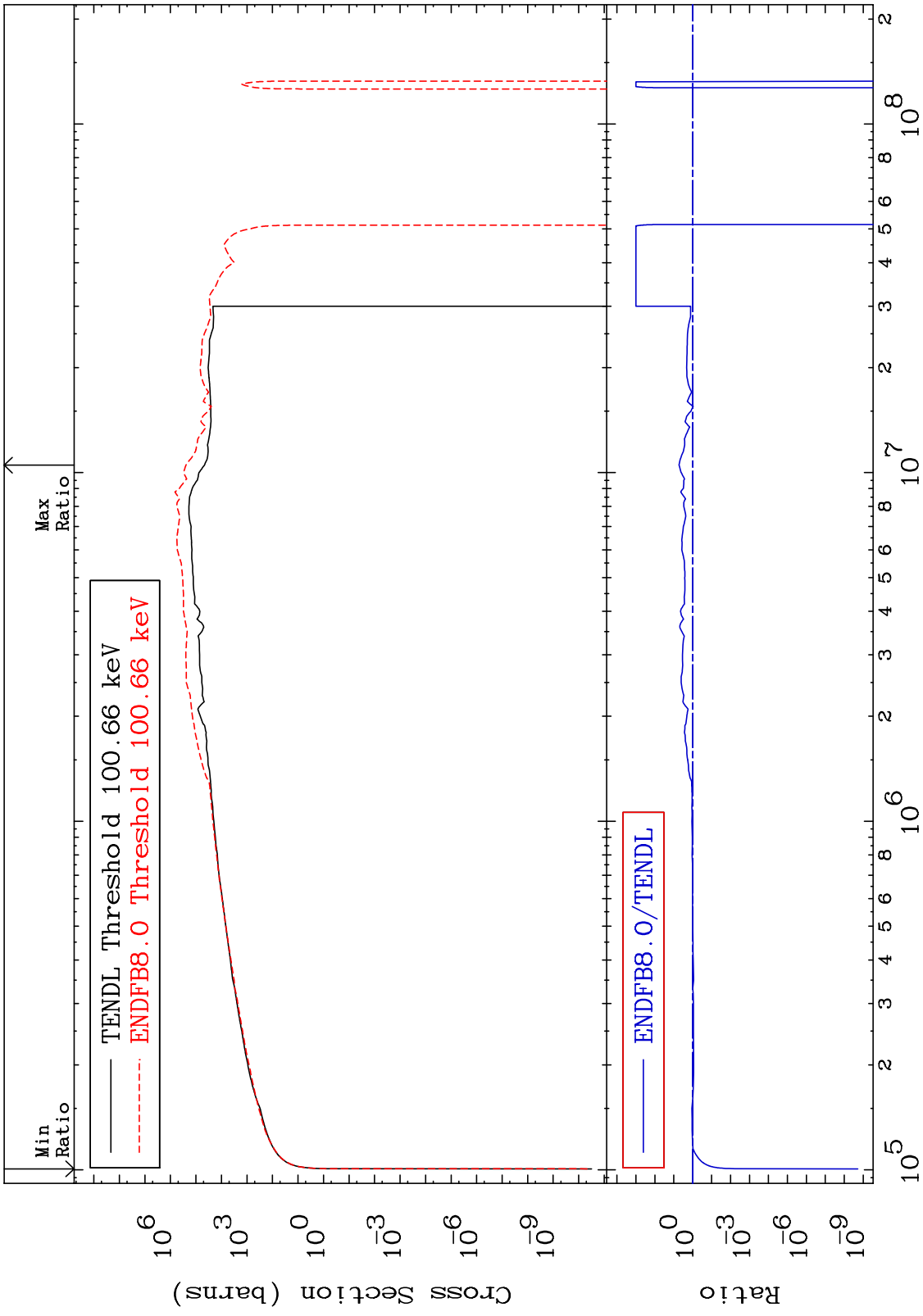
MAT 7431

Kerma non-elastic (all but mt2)
Cross Section

74-W -182
-99.72 To 9999. %



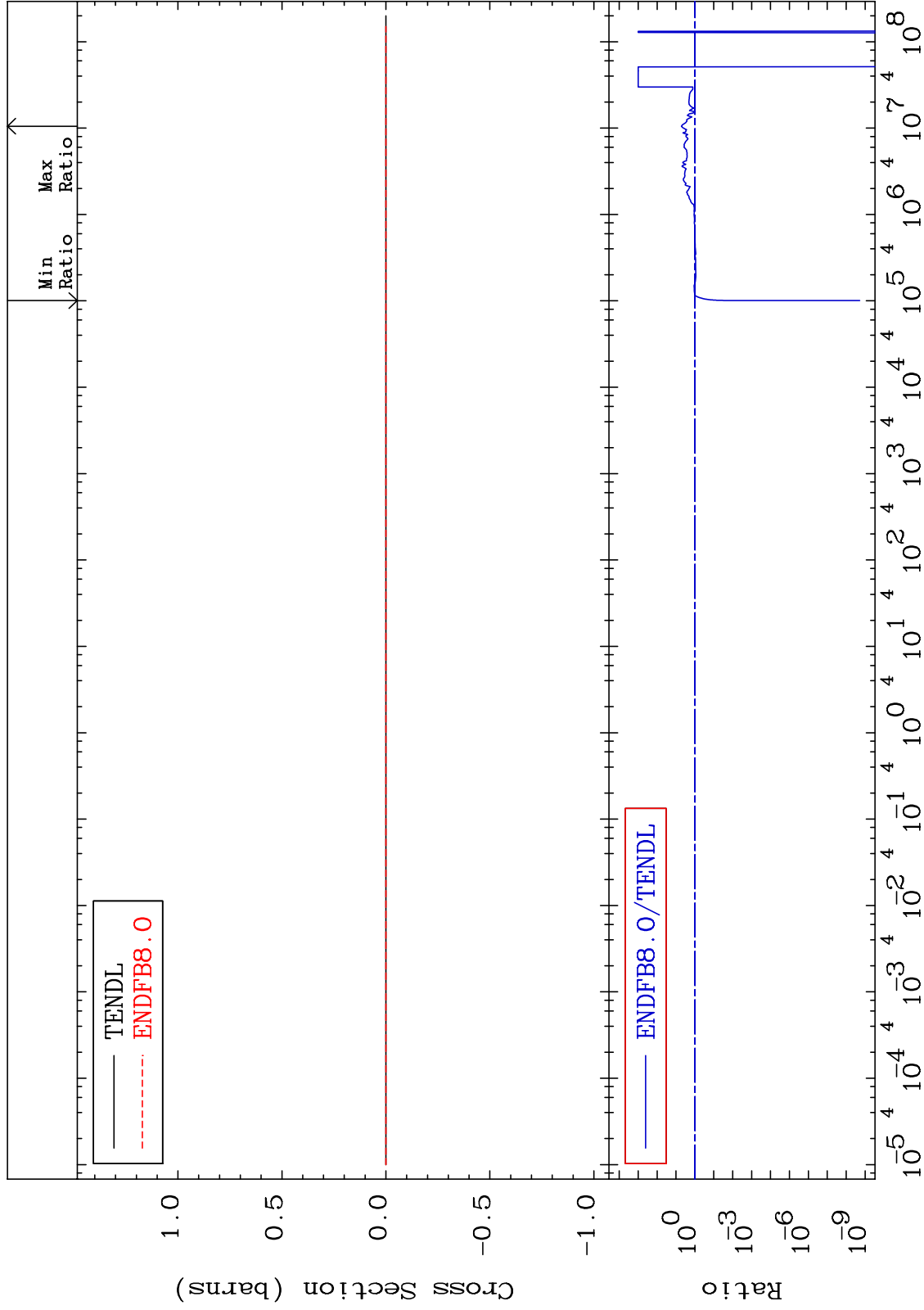
MAT 7431 Kerma inelastic (mt51-91) 74-W -182
 Cross Section -100.0 To 426.2 %



MAT 7431

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

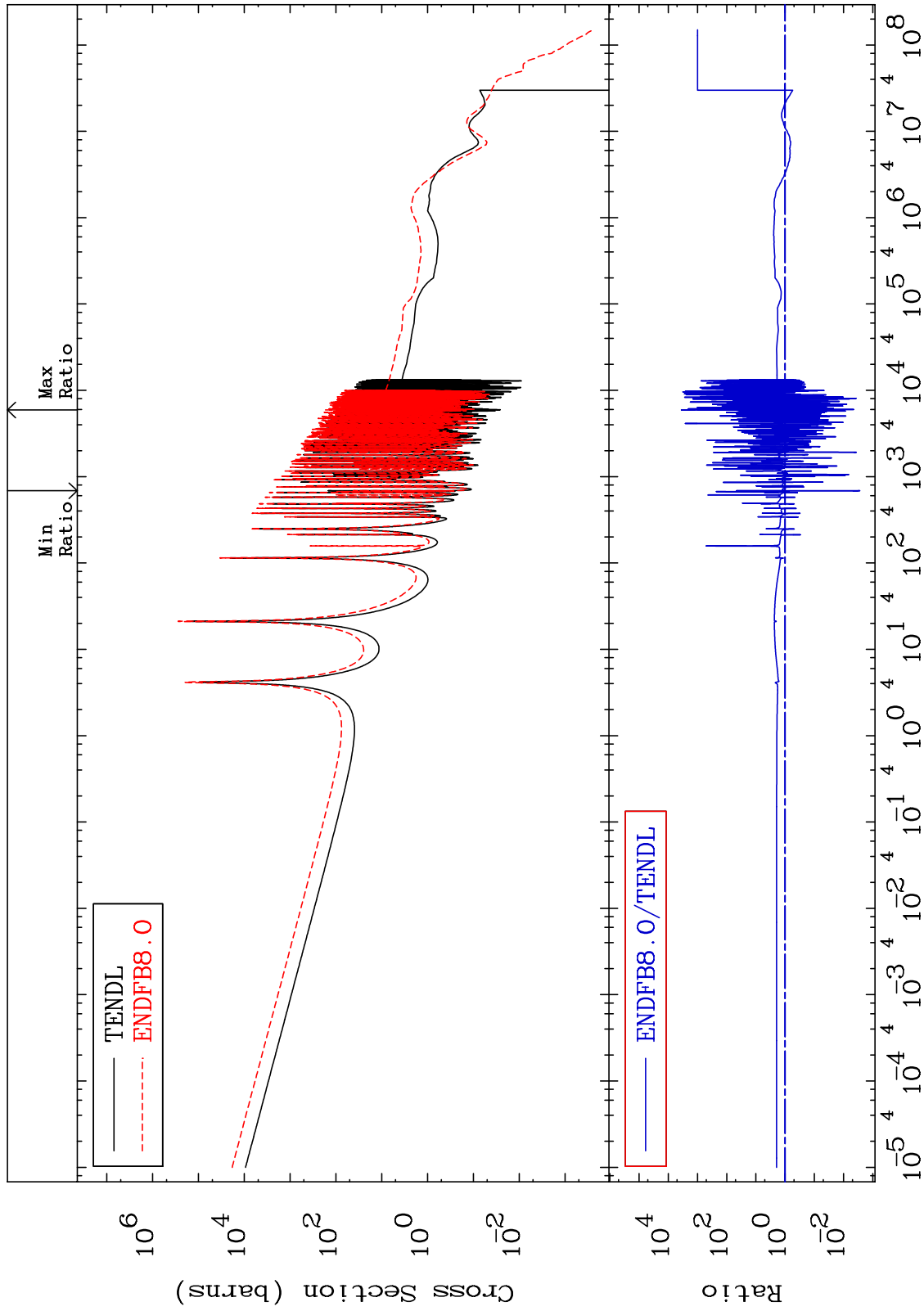
74-W -182
-100.0 To 426.2 %



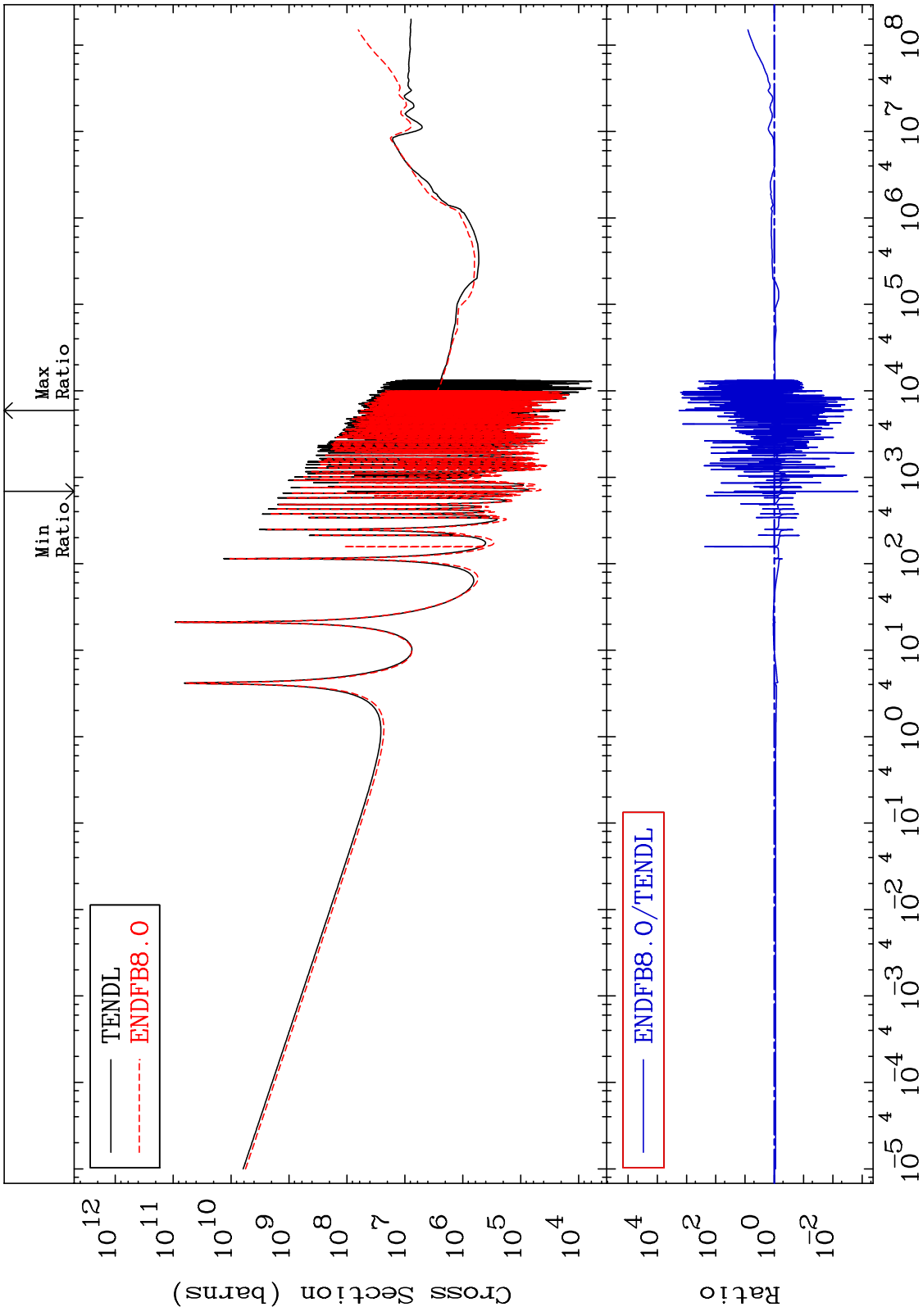
MAT 7431

Kerma capture (mt102)
Cross Section

74-W -182
-99.72 To 9999. %

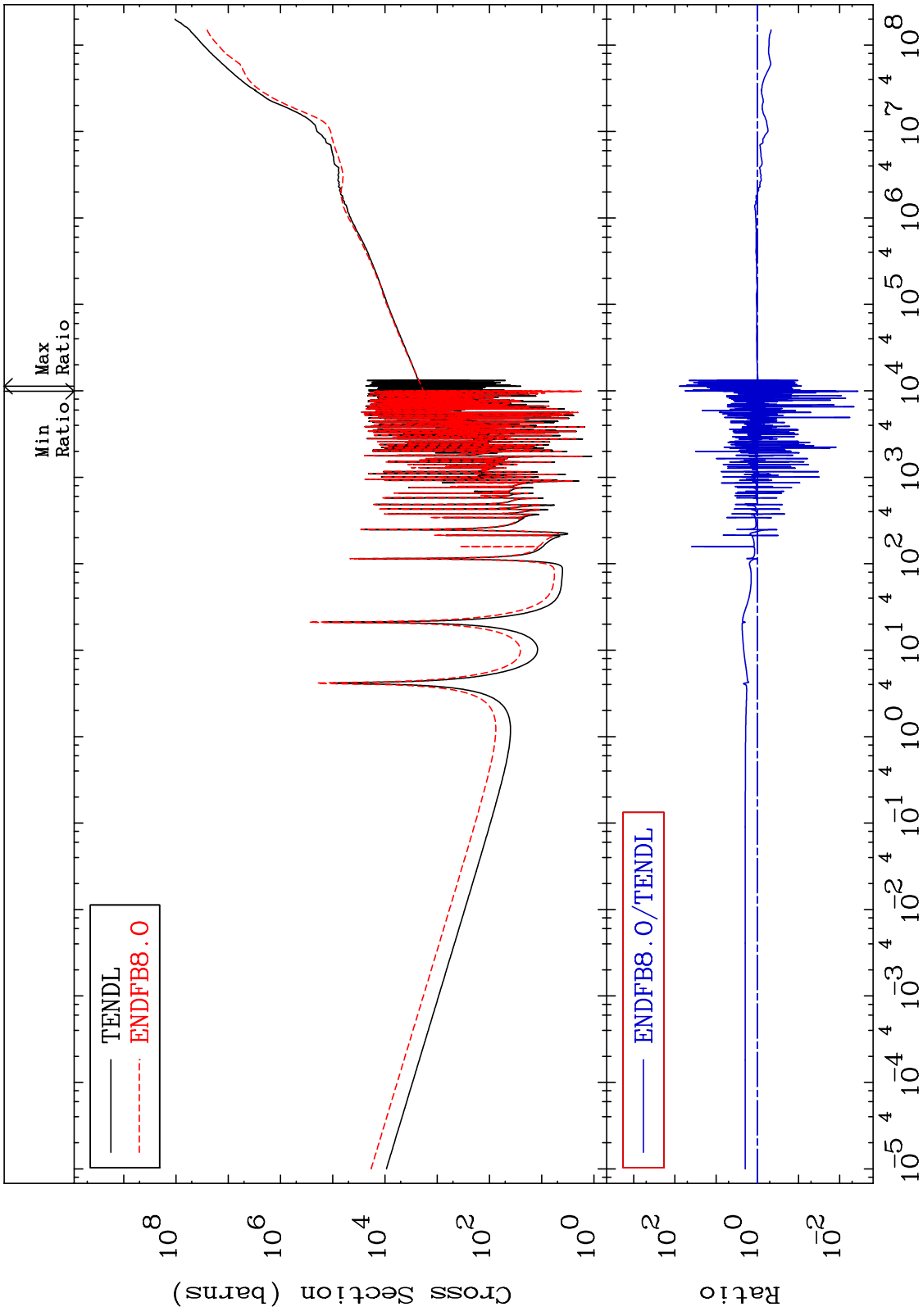


MAT 7431 74-W -182
 Total photon (eV-barns) -99.86 To 9999. %
 Cross Section

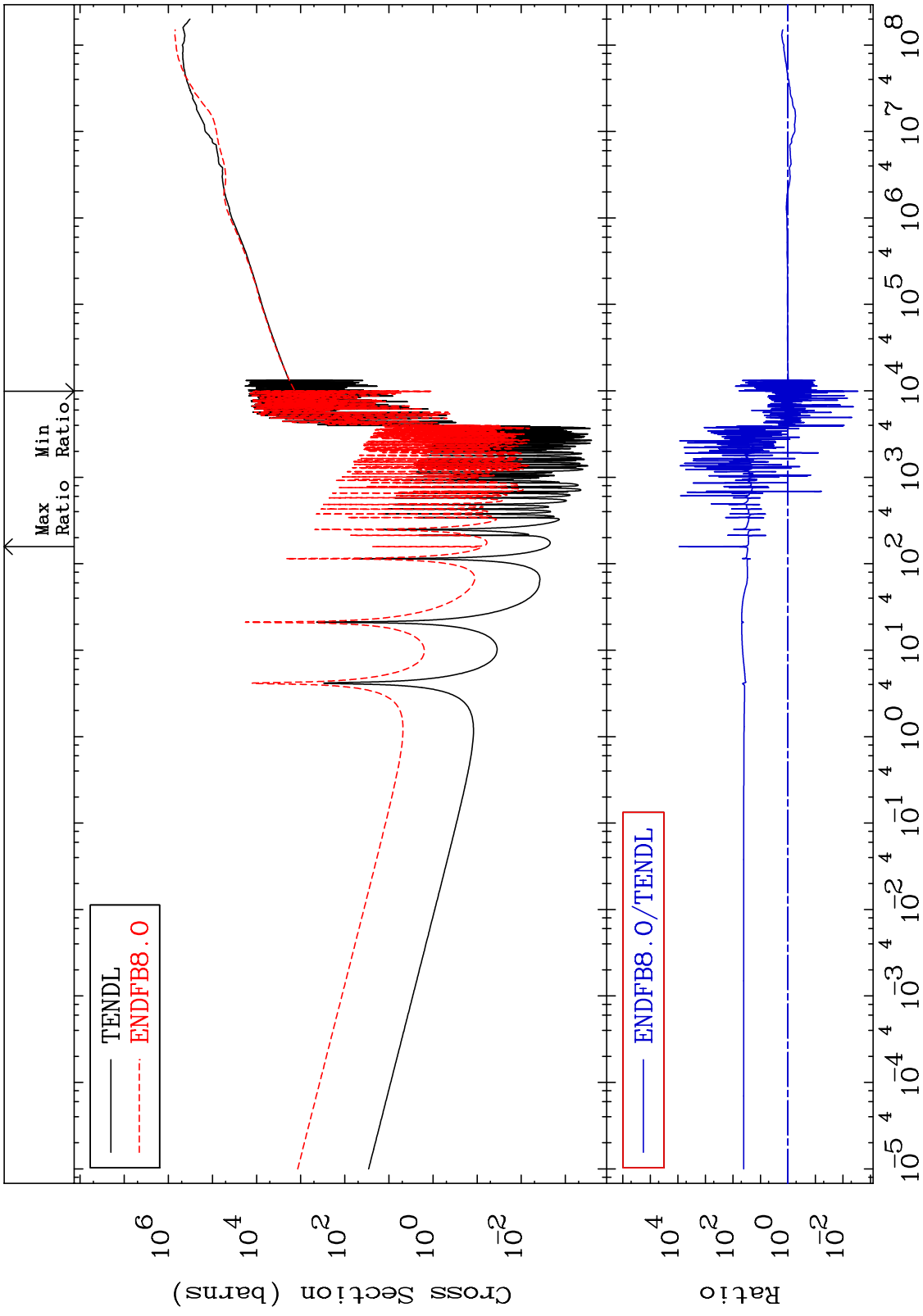


31 74-W -182

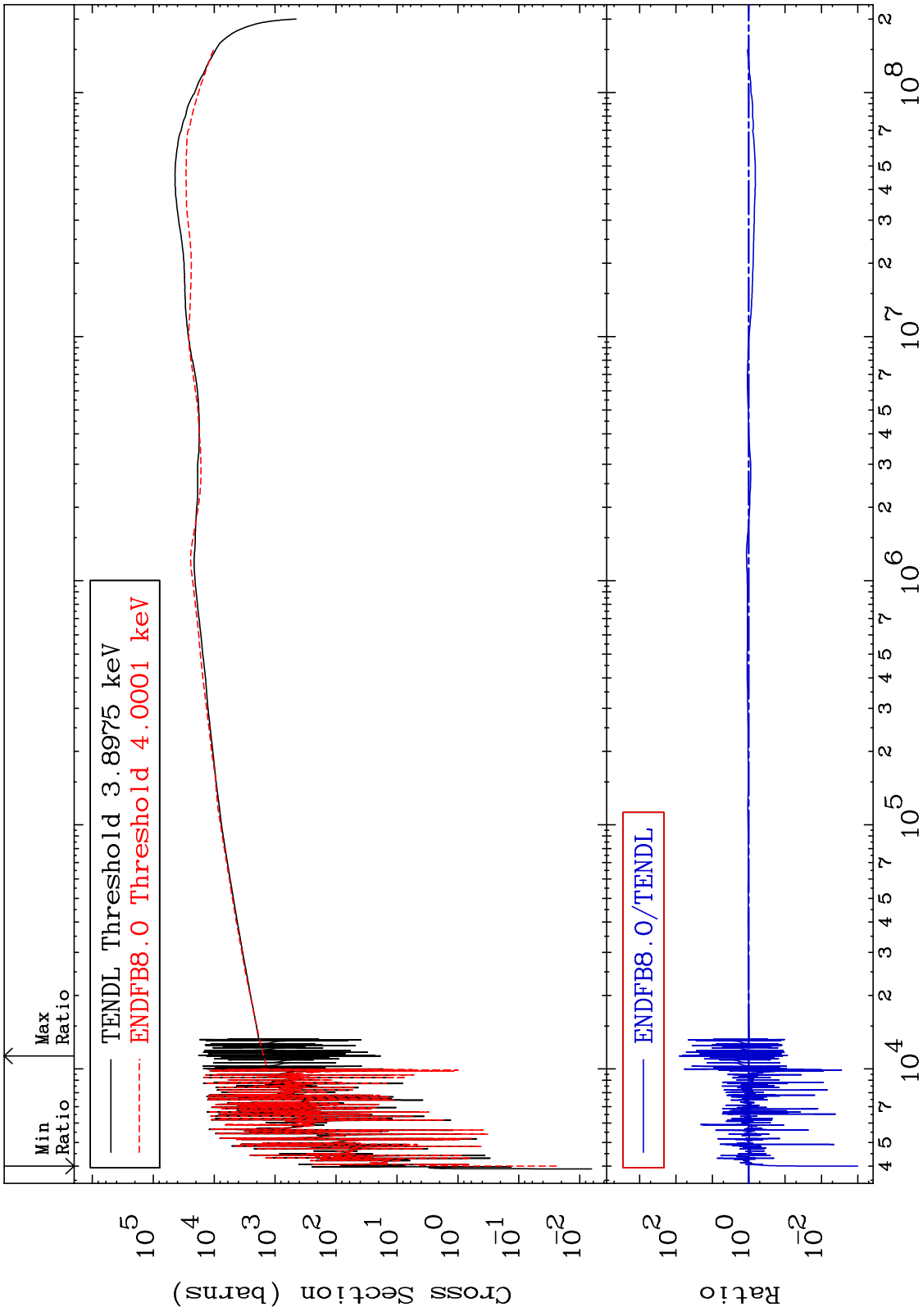
MAT 7431 Total kinematic kerma (high limit) 74-W -182
 Cross Section -99.64 To 7829. %



MAT 7431 Dpa total (eV-barns) 74-W -182
 Cross Section -99.71 To 9999. %



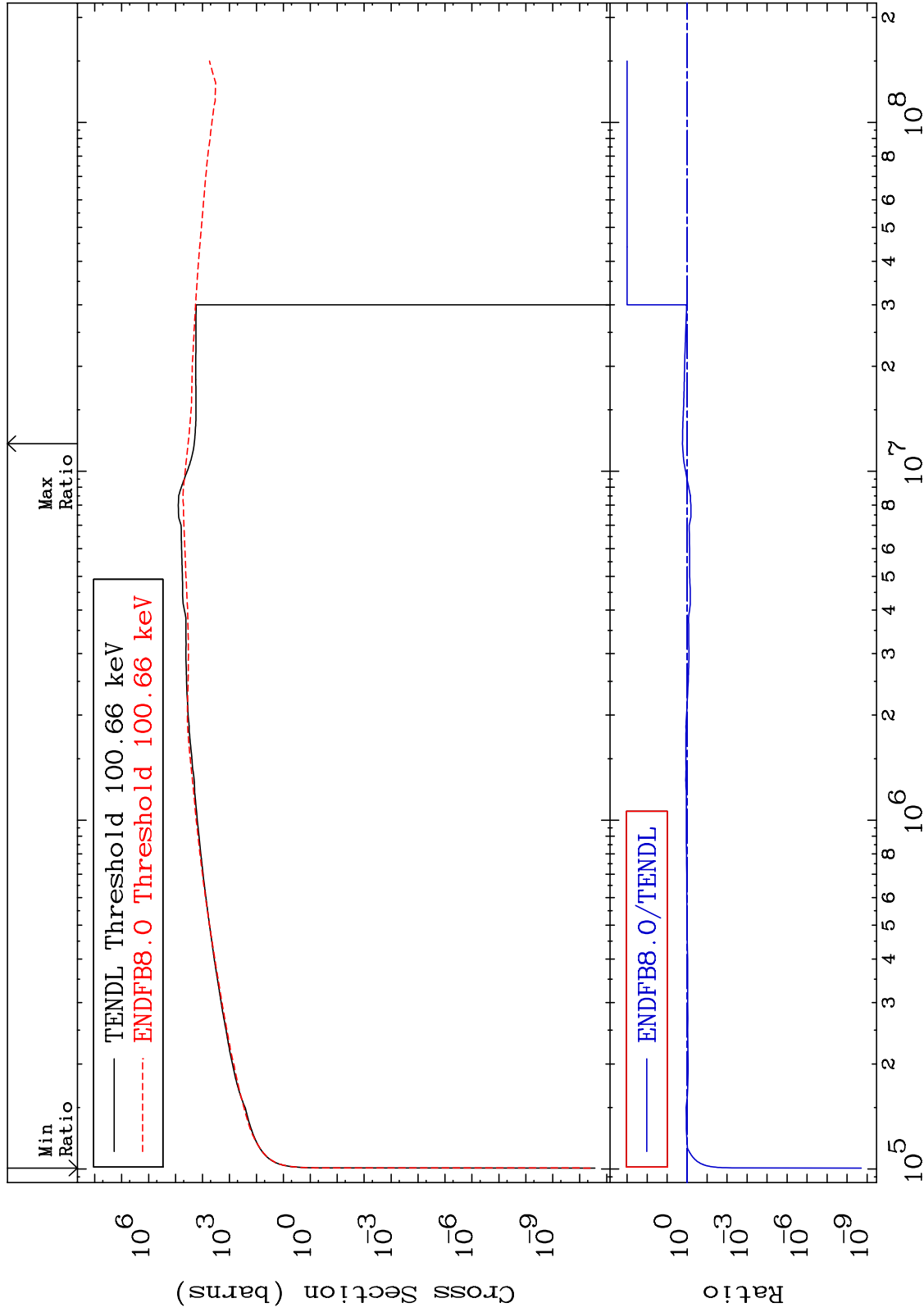
MAT 7431 Dpa elastic (mt2) 74-W -182
 Cross Section -99.90 To 8127. %



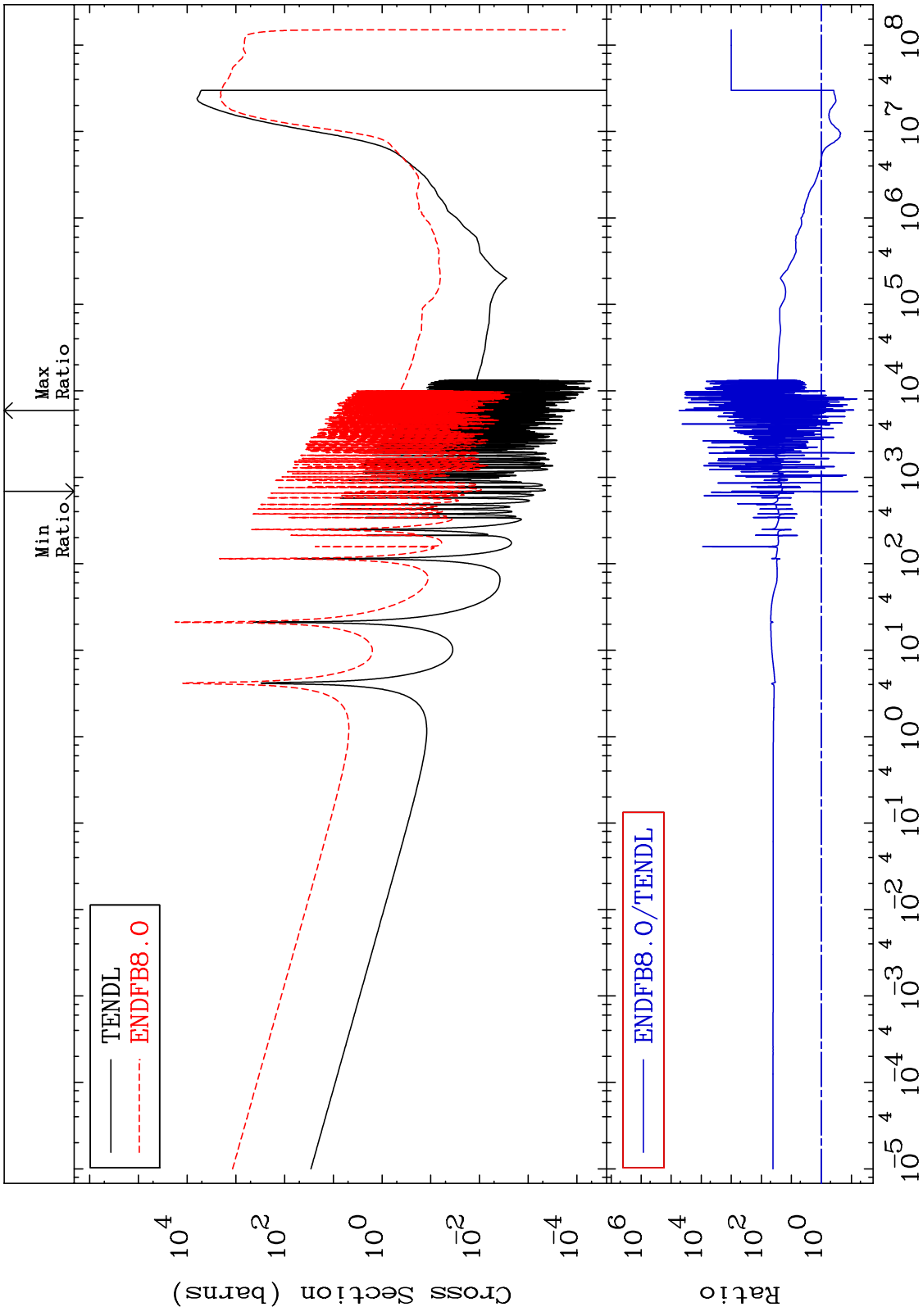
MAT 7431

Dpa inelastic (mt51-91)
Cross Section

74-W -182
-100.0 To 70.78 %



MAT 7431 Dpa disappearance (mt102 -120) 74-W -182
 Cross Section -93.90 To 9999. %

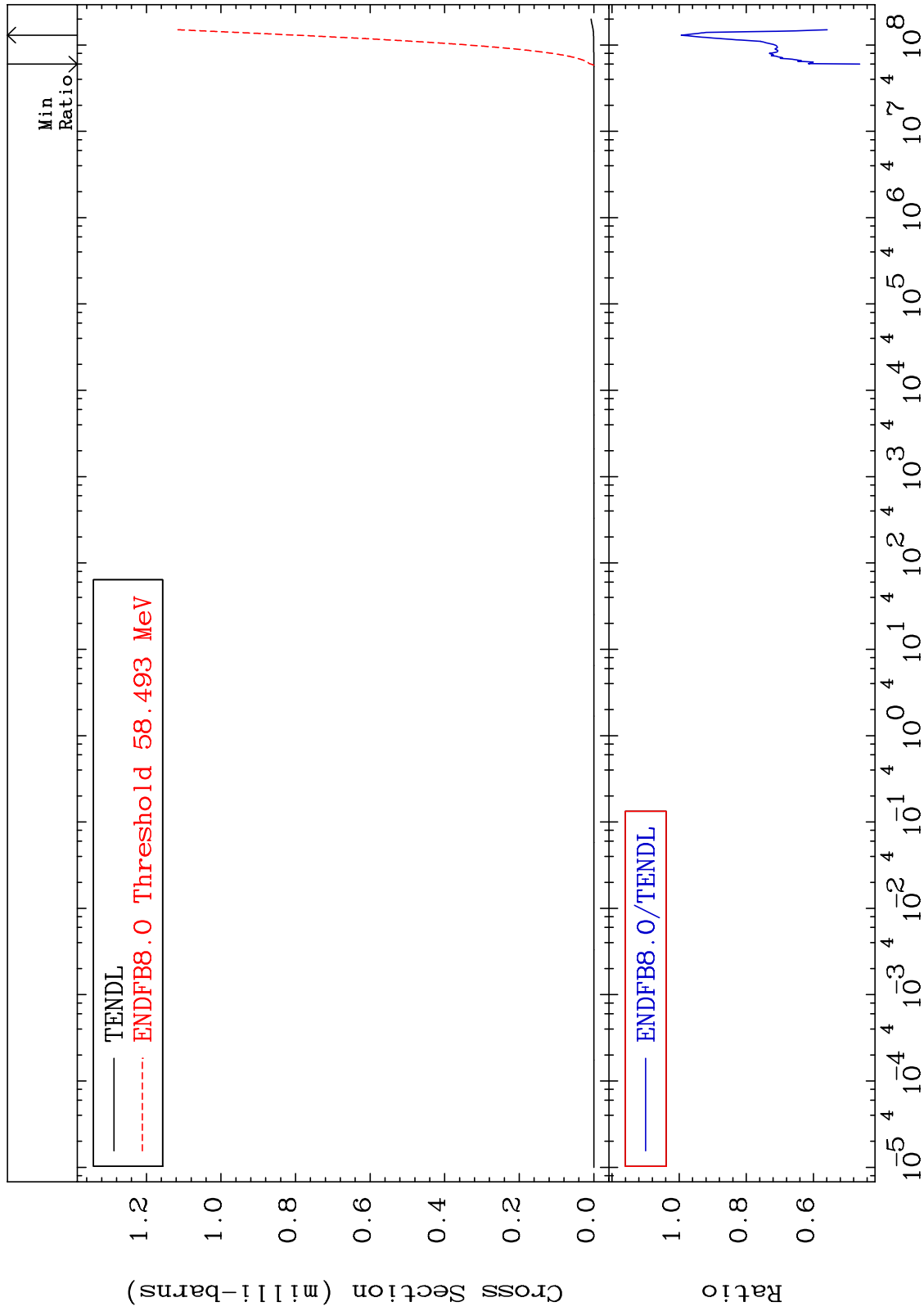


MAT 7431

Fission:0-?-?-Nat

74-W -182

Radionuclide Production Cross Section 9999. To 9999. %



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Incident Energy (eV)

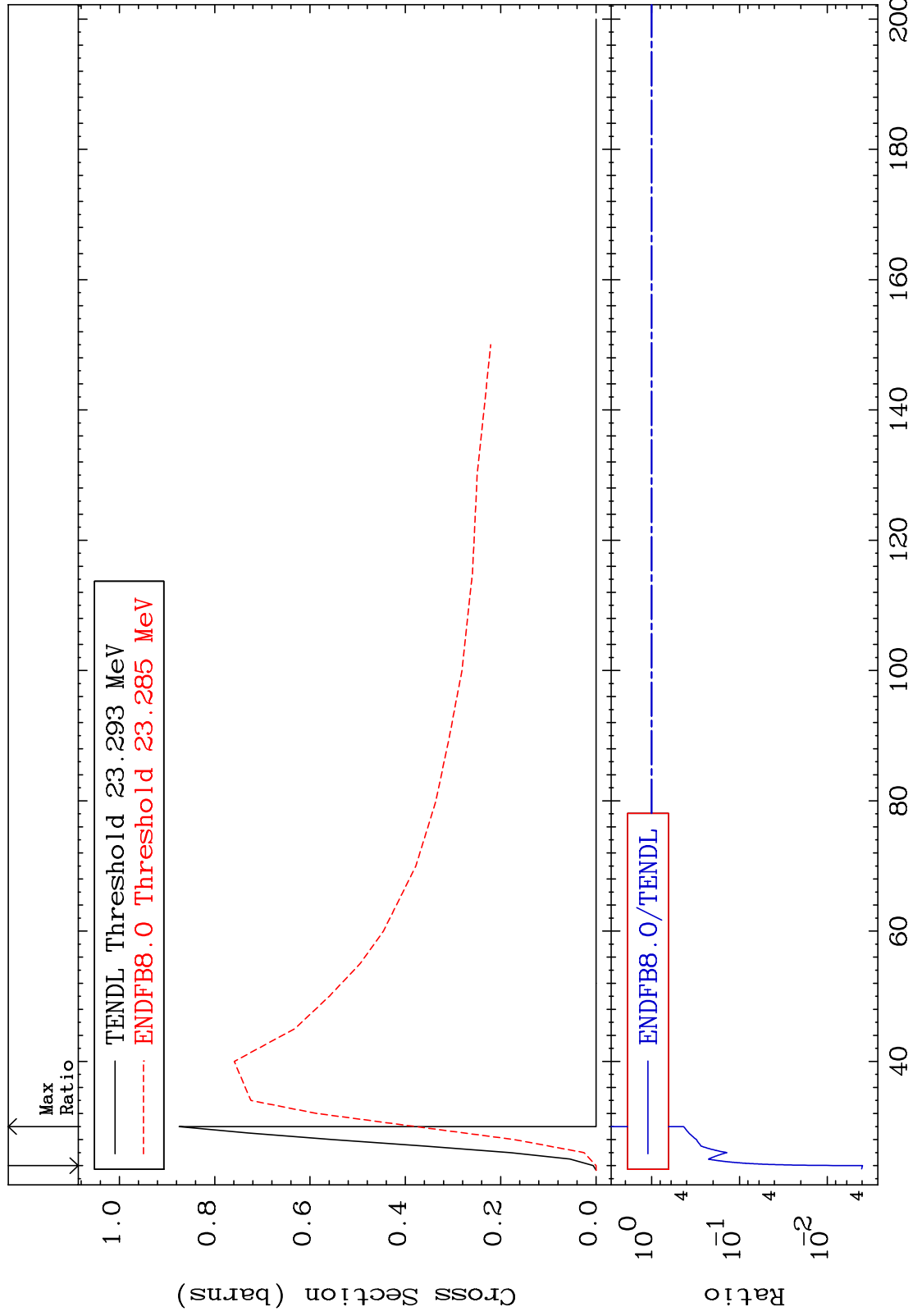
74-W -182

MAT 7431

(n,4n):74-W -179g

74-W -182

Radionuclide Production Cross Section -99.60 To -56.71%

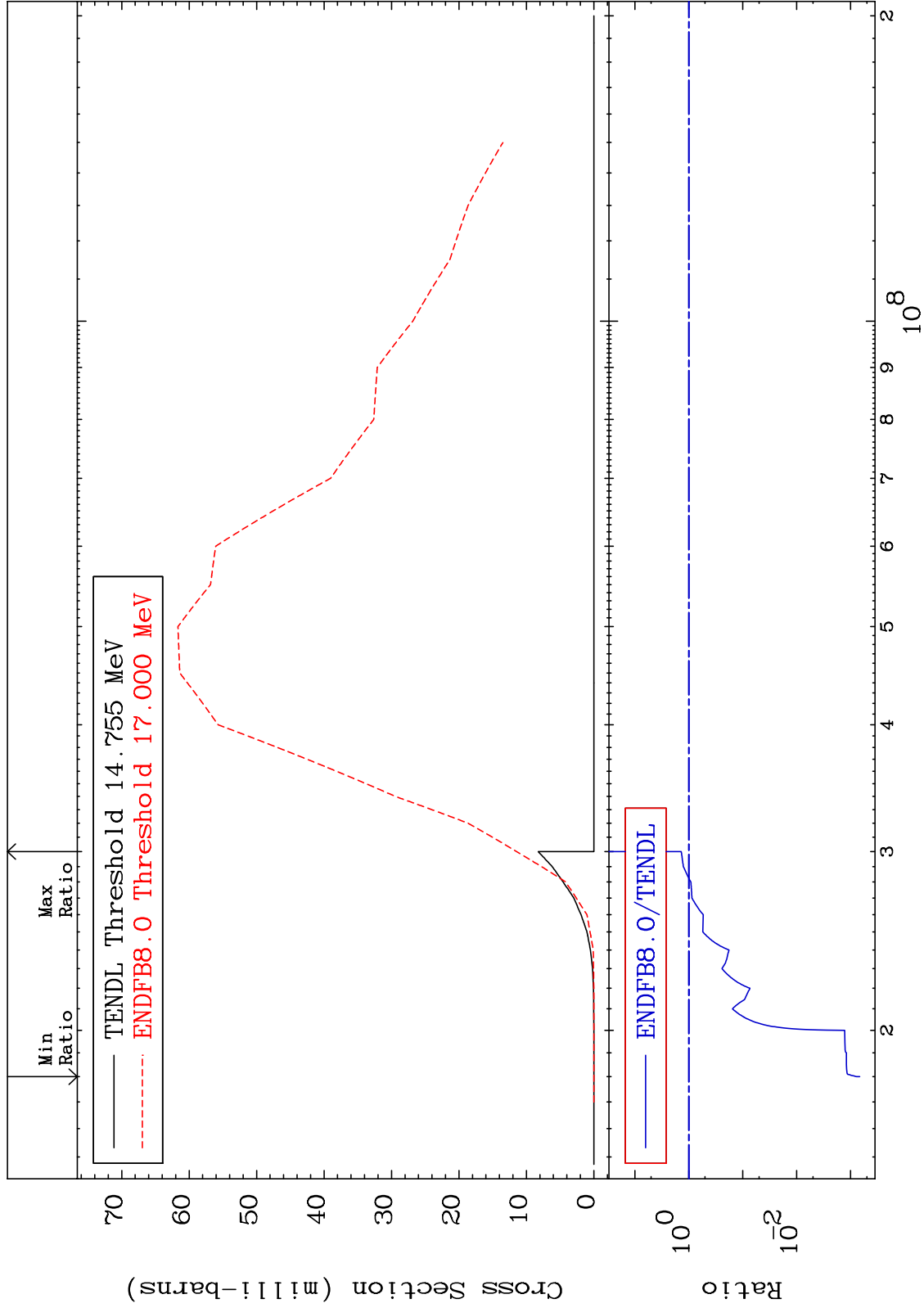


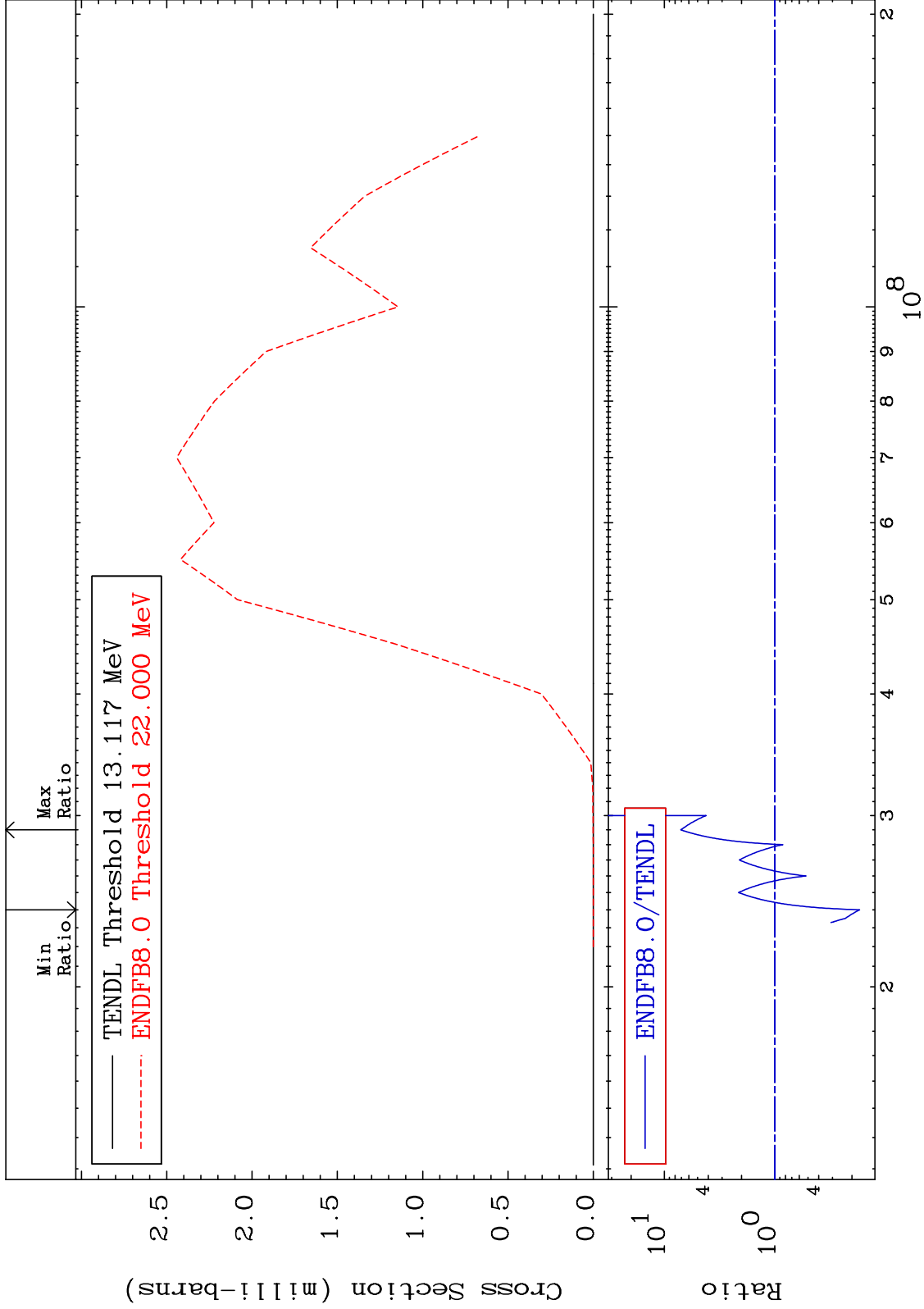
MAT 7431

(n,2n) p:73-Ta-180g

74-W -182

Radionuclide Production Cross Section -99.93 To 38.33 %

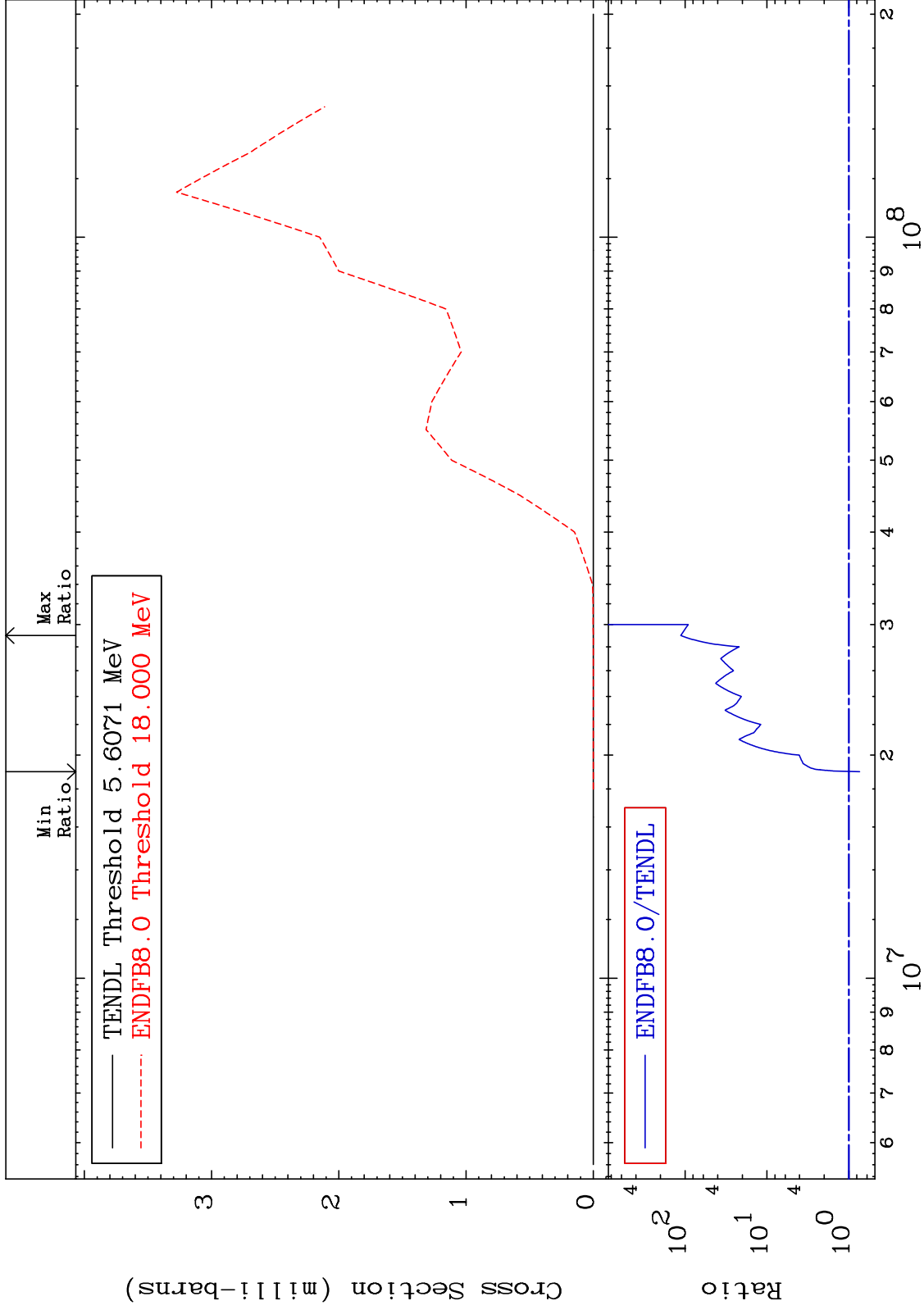




MAT 7431

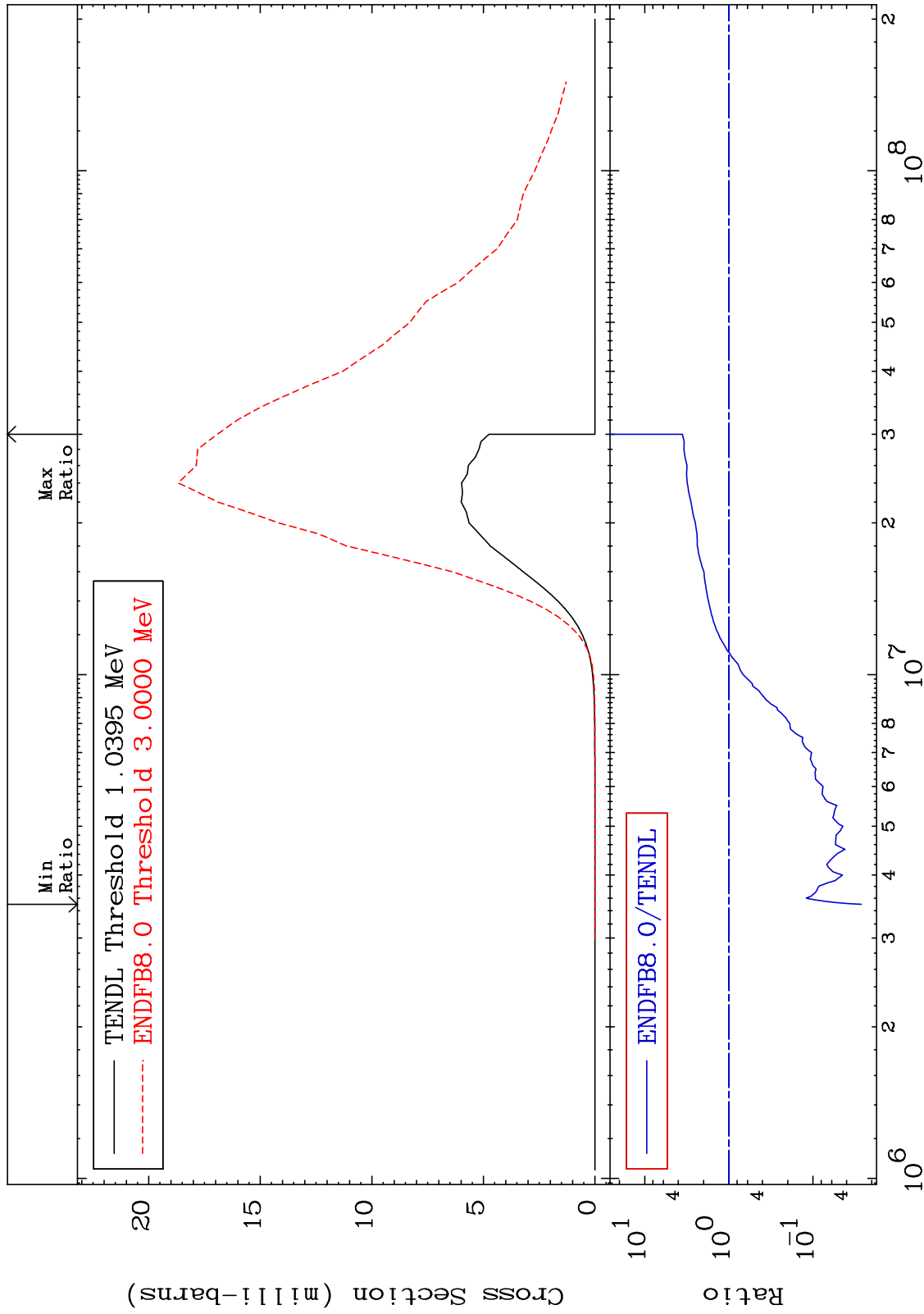
74-W -182

(n,n') p α :71-Lu-177g
Radionuclide Production Cross Section -26.19 To 9999. %



MAT 7431

(n,p) : 73-Ta-182g 74-W -182
Radionuclide Production Cross Section -97.33 To 256.5 %



42

Incident Energy (eV)

74-W -182