

Program Complot
(Version 2018-1)

by

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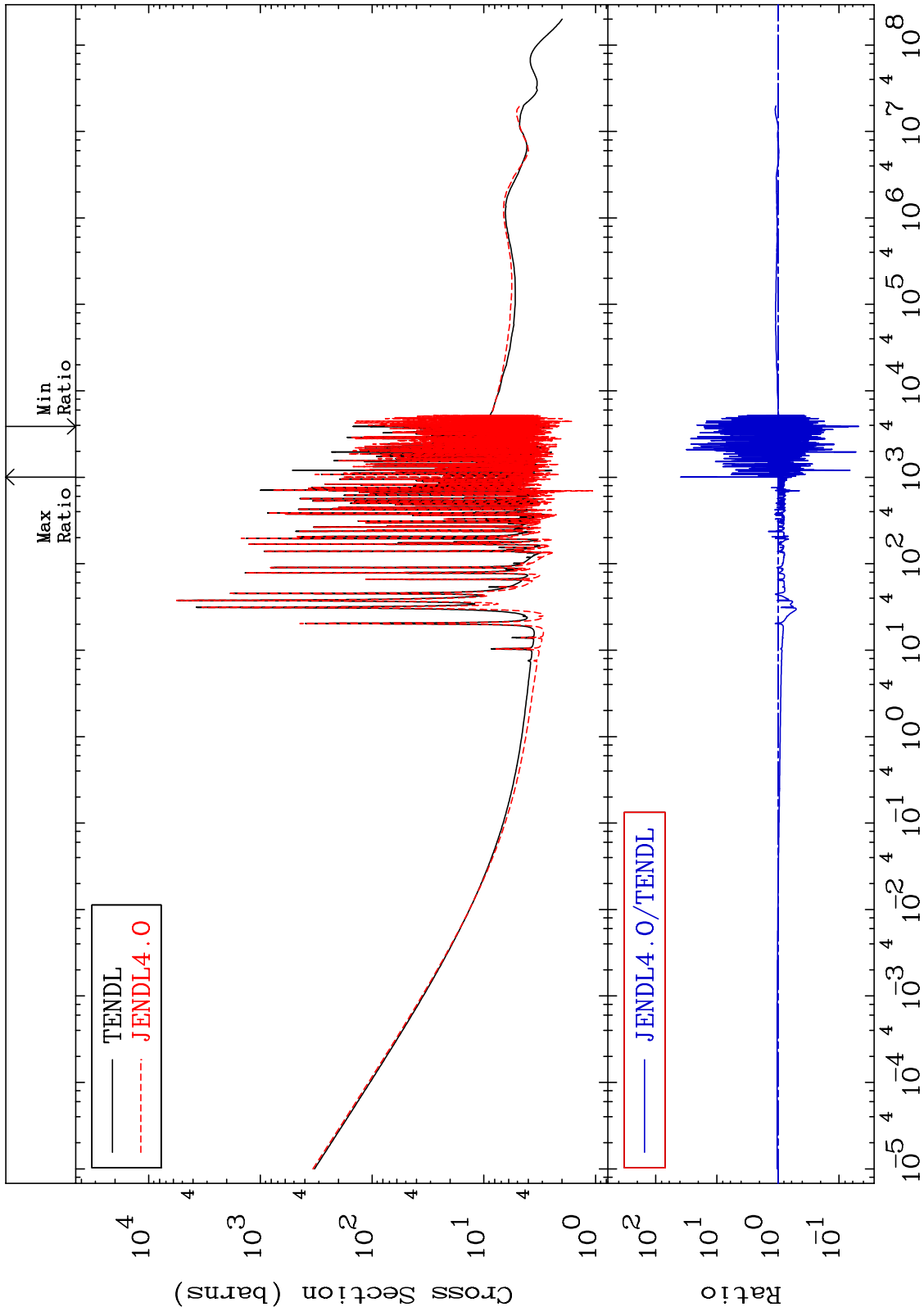
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5325

Total
Cross Section

53-I -127
-95.26 To 3864. %



Incident Energy (eV)

53-I -127

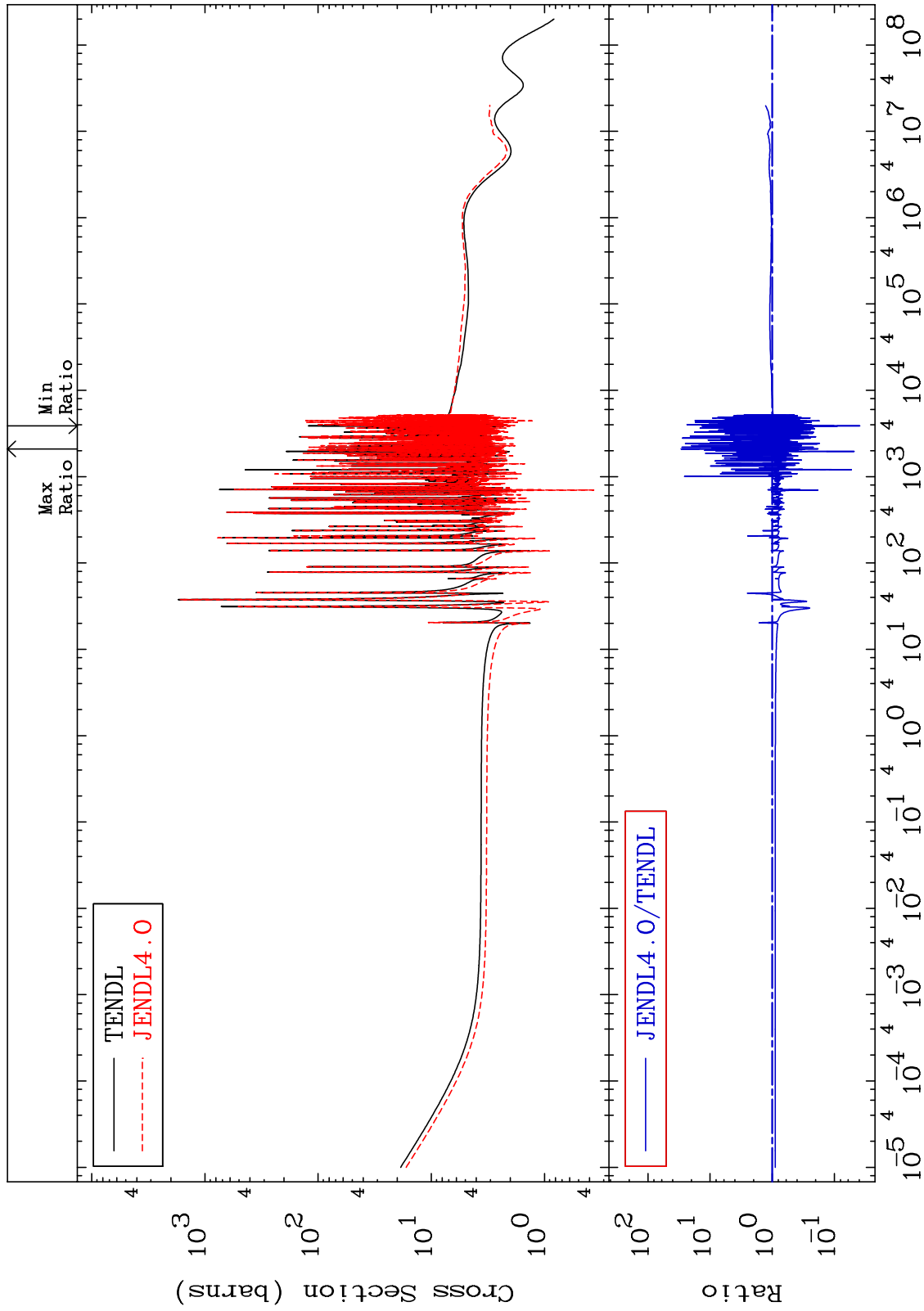
MAT 5325

Elastic

53-I -127

Cross Section

-96.09 To 2809. %

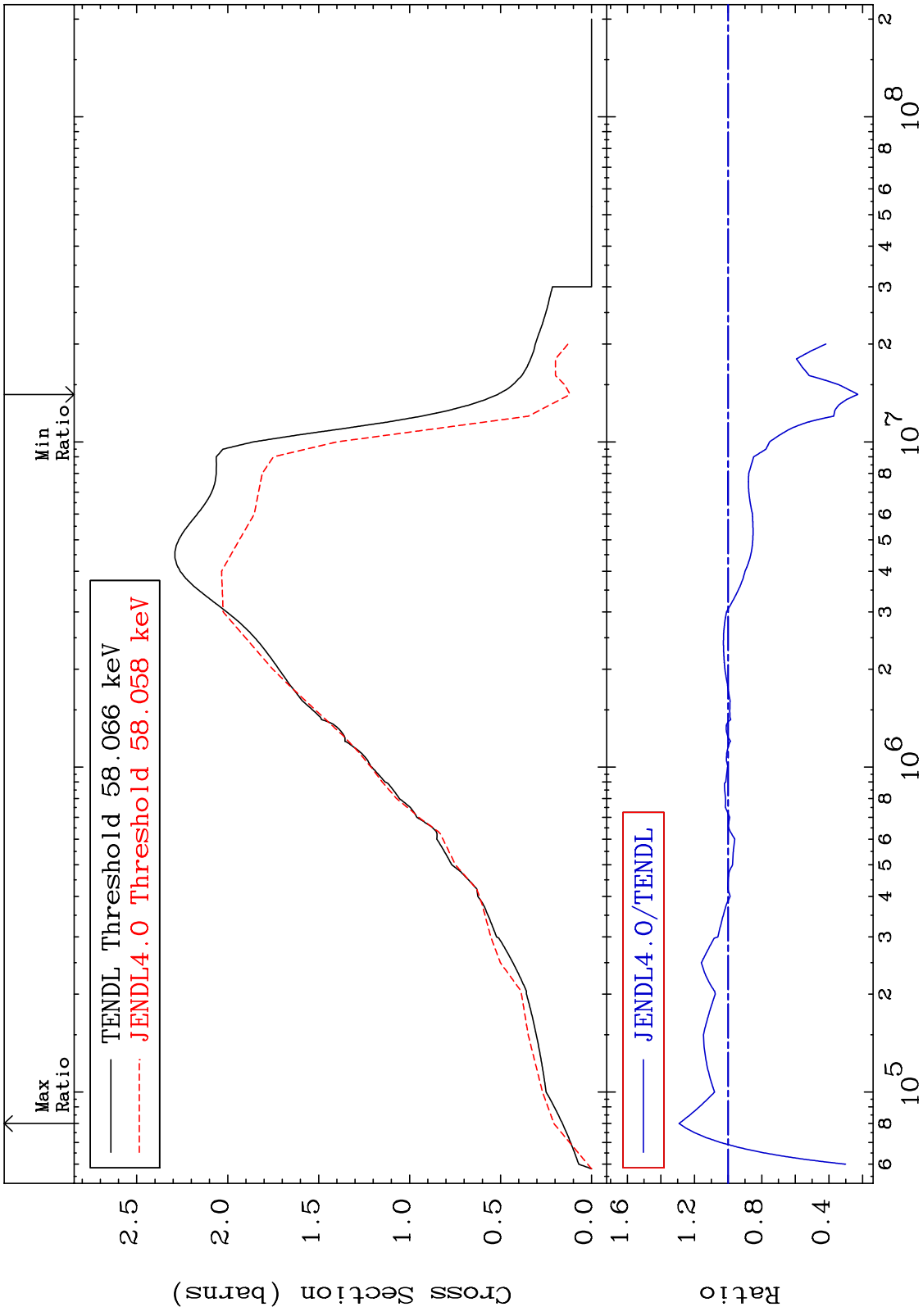


2

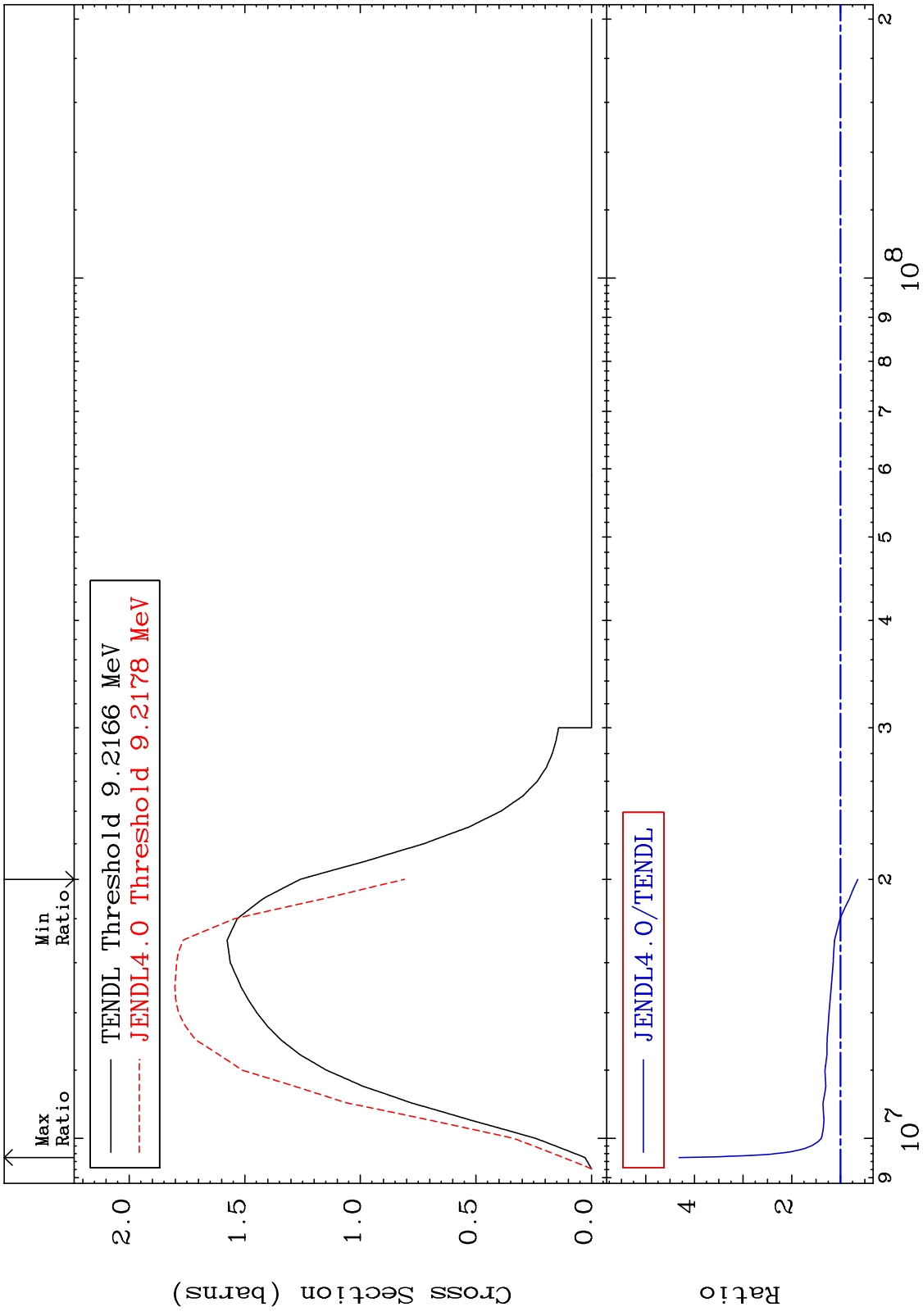
Incident Energy (eV)

53-I -127

MAT 5325 Inelastic Cross Section 53-I -127
-77.20 To 29.21 %

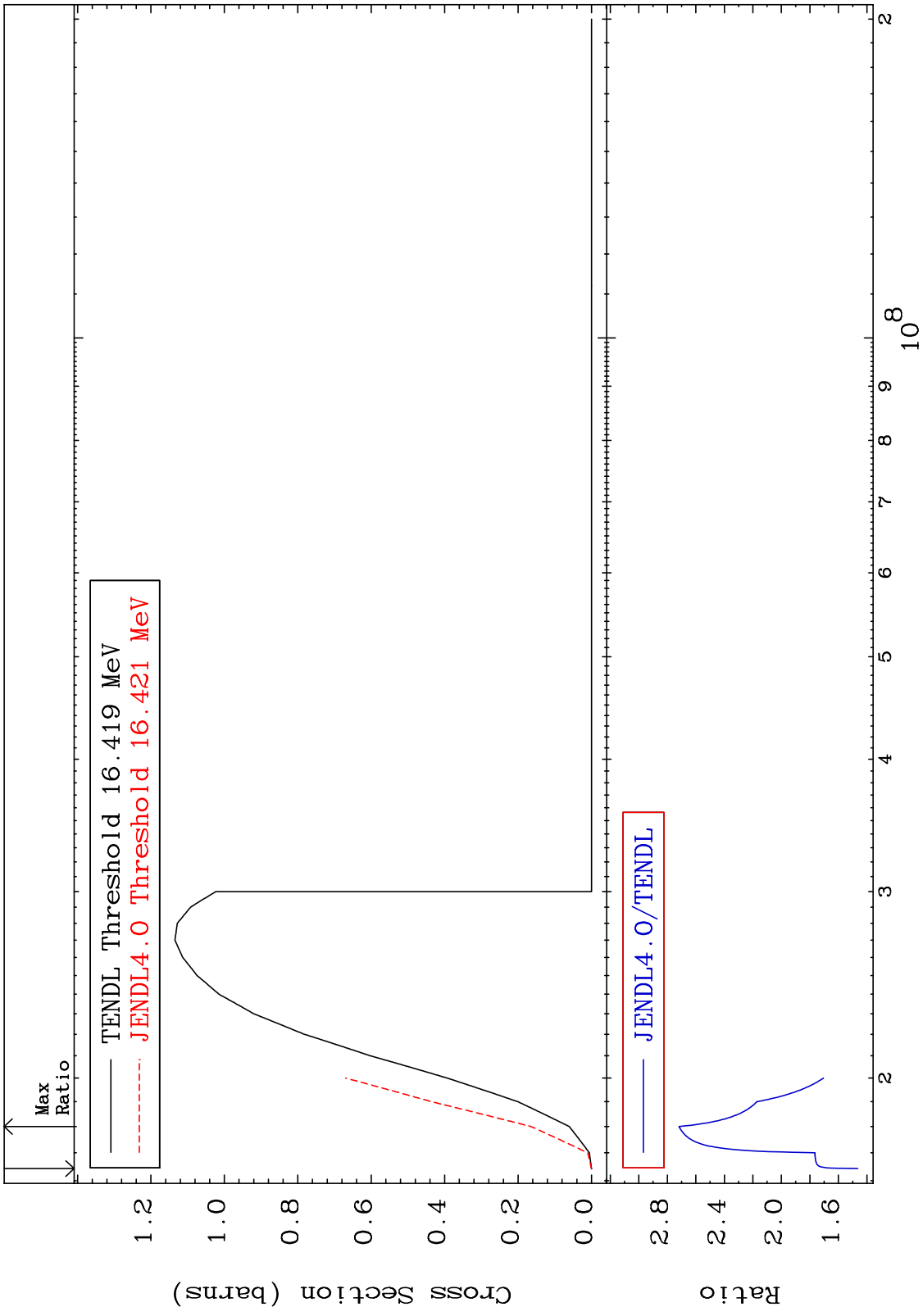


MAT 5325 (n,2n) Cross Section 53-I -127 -35.78 To 331.5 %

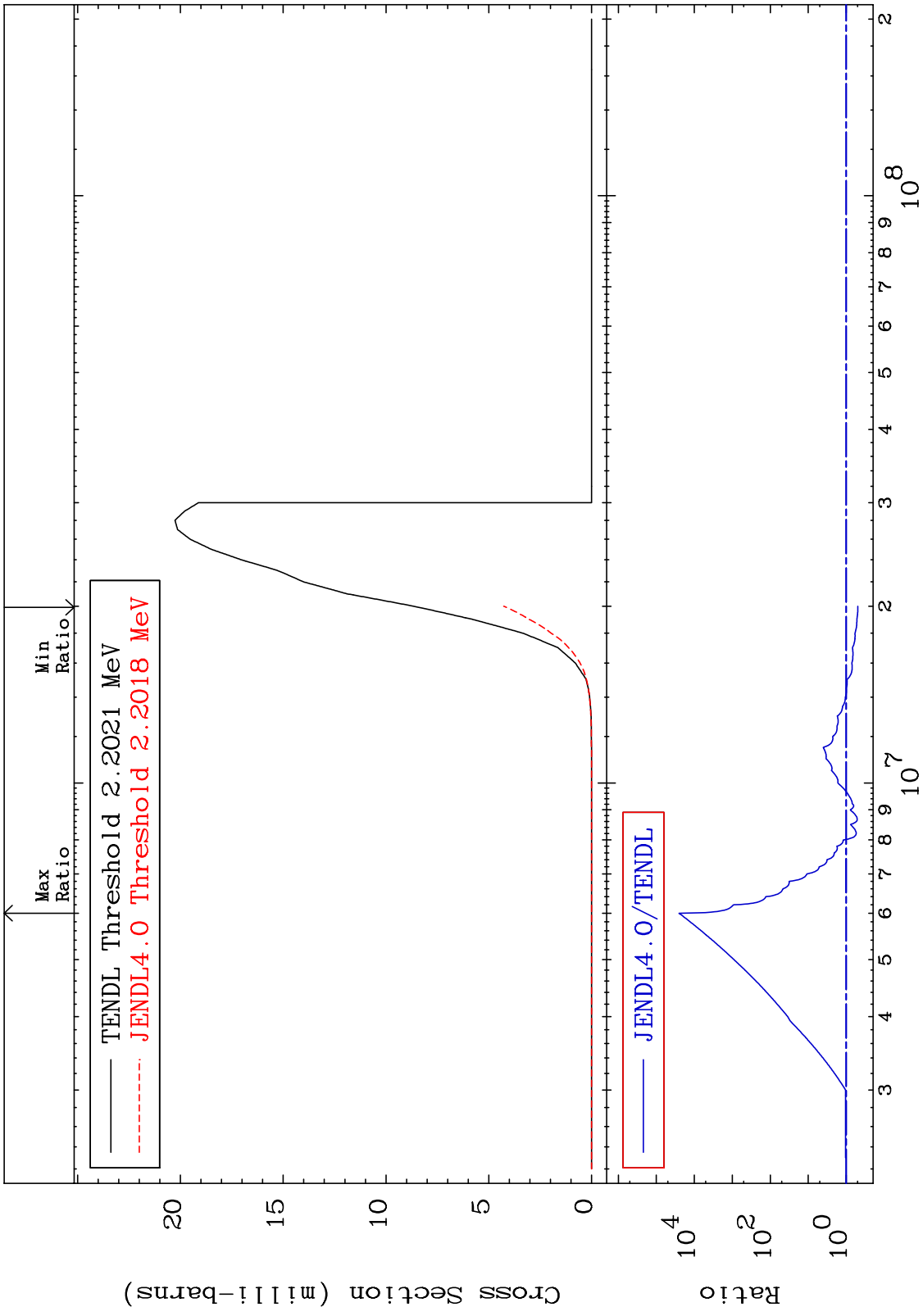


53-I -127

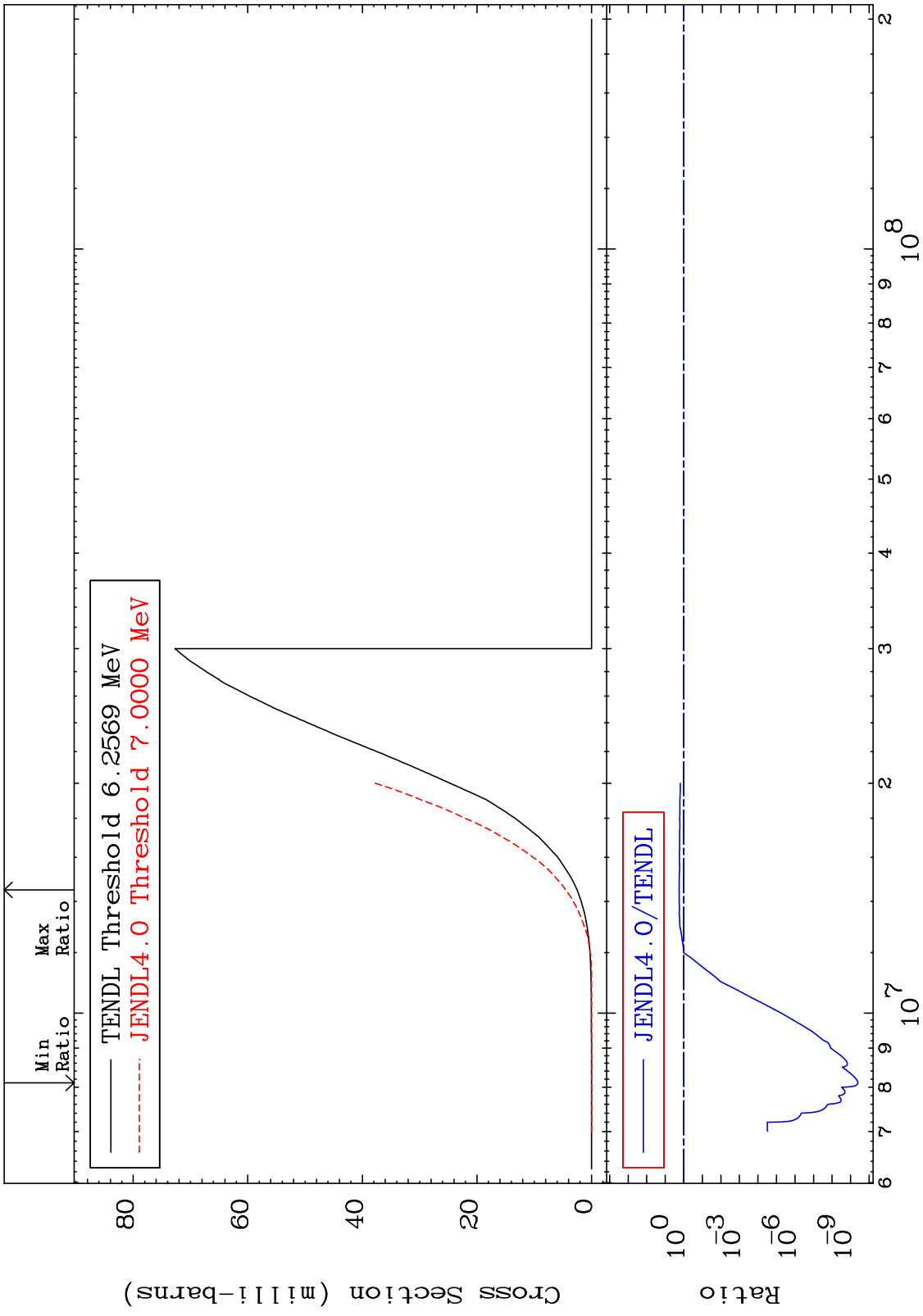
MAT 5325 (n,3n) Cross Section 53-I -127 To 171.8 %
 46.38

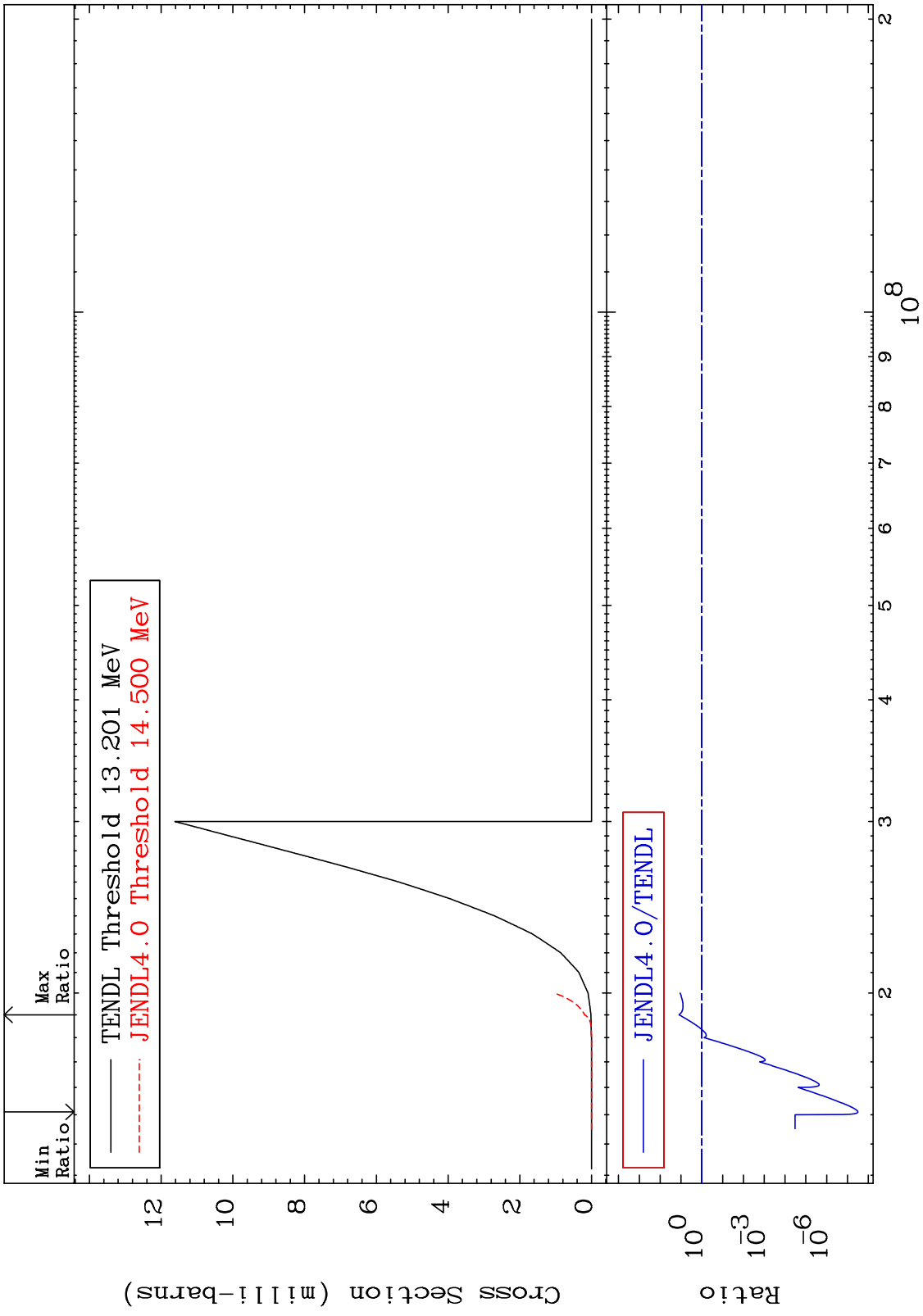


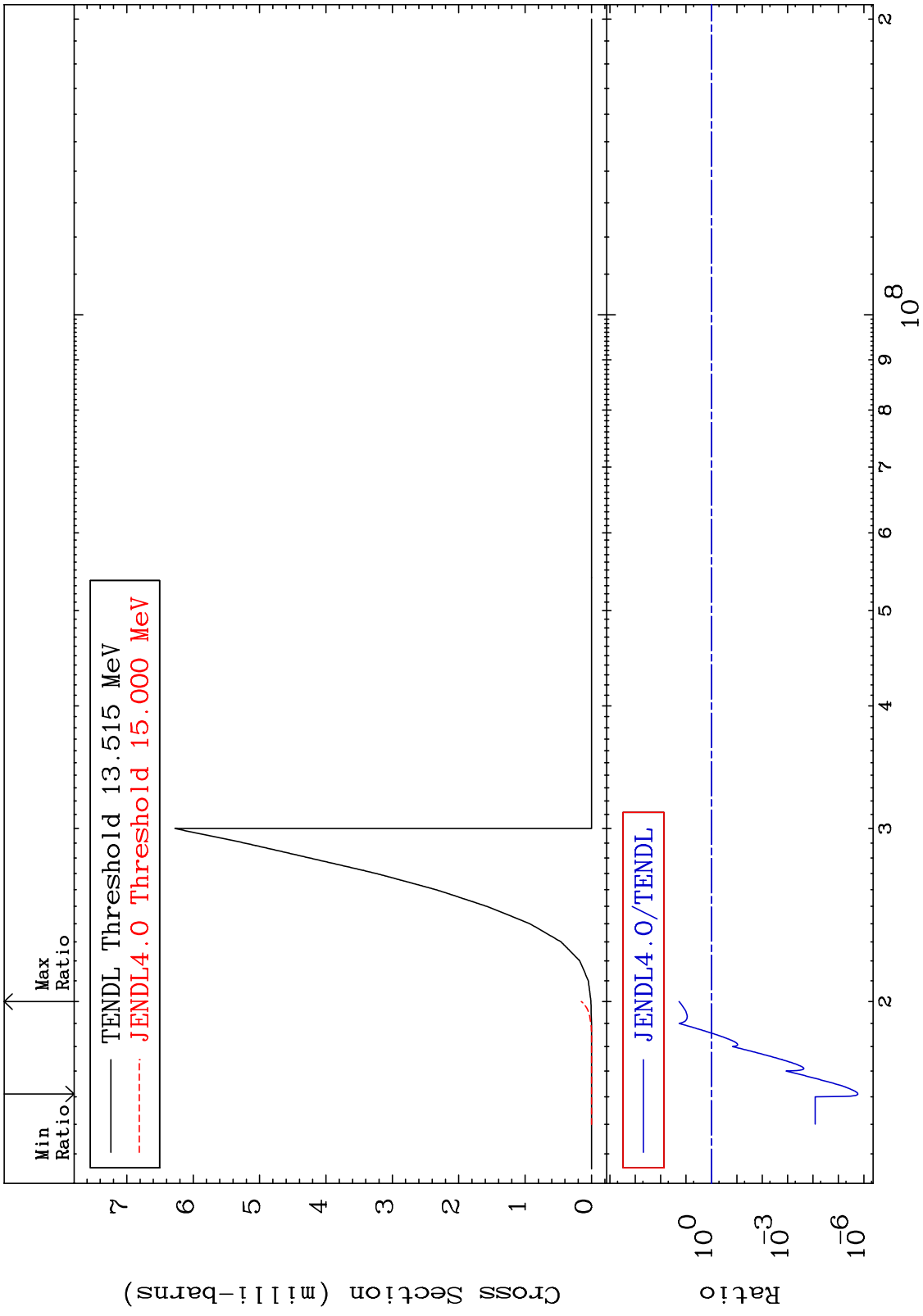
MAT 5325 $(n, n') \alpha$ 53-I -127
 Cross Section -50.64 To 9999. %



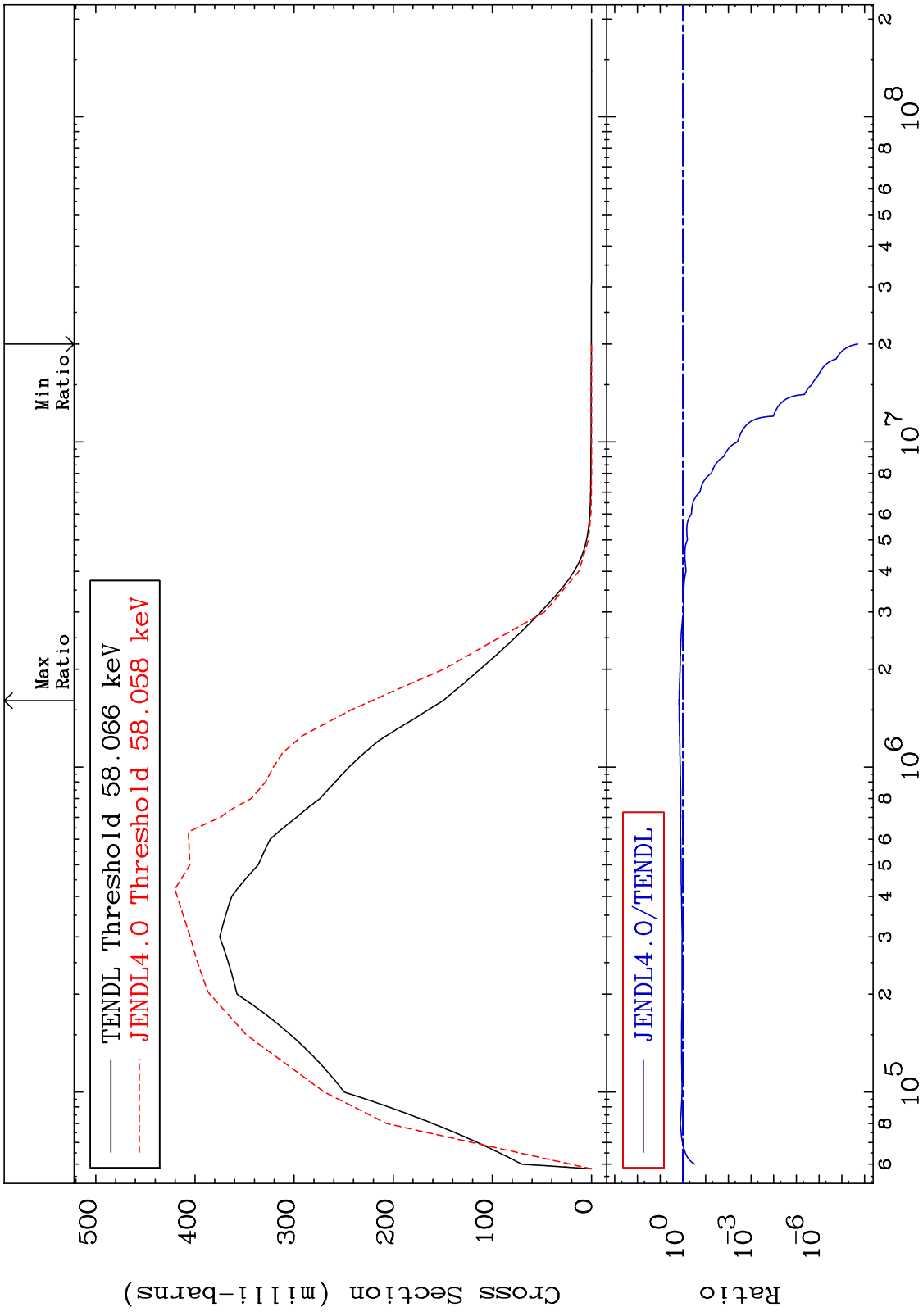
MAT 5325 (n,n') p 53-I -127
 Cross Section -100.0 To 80.15 %





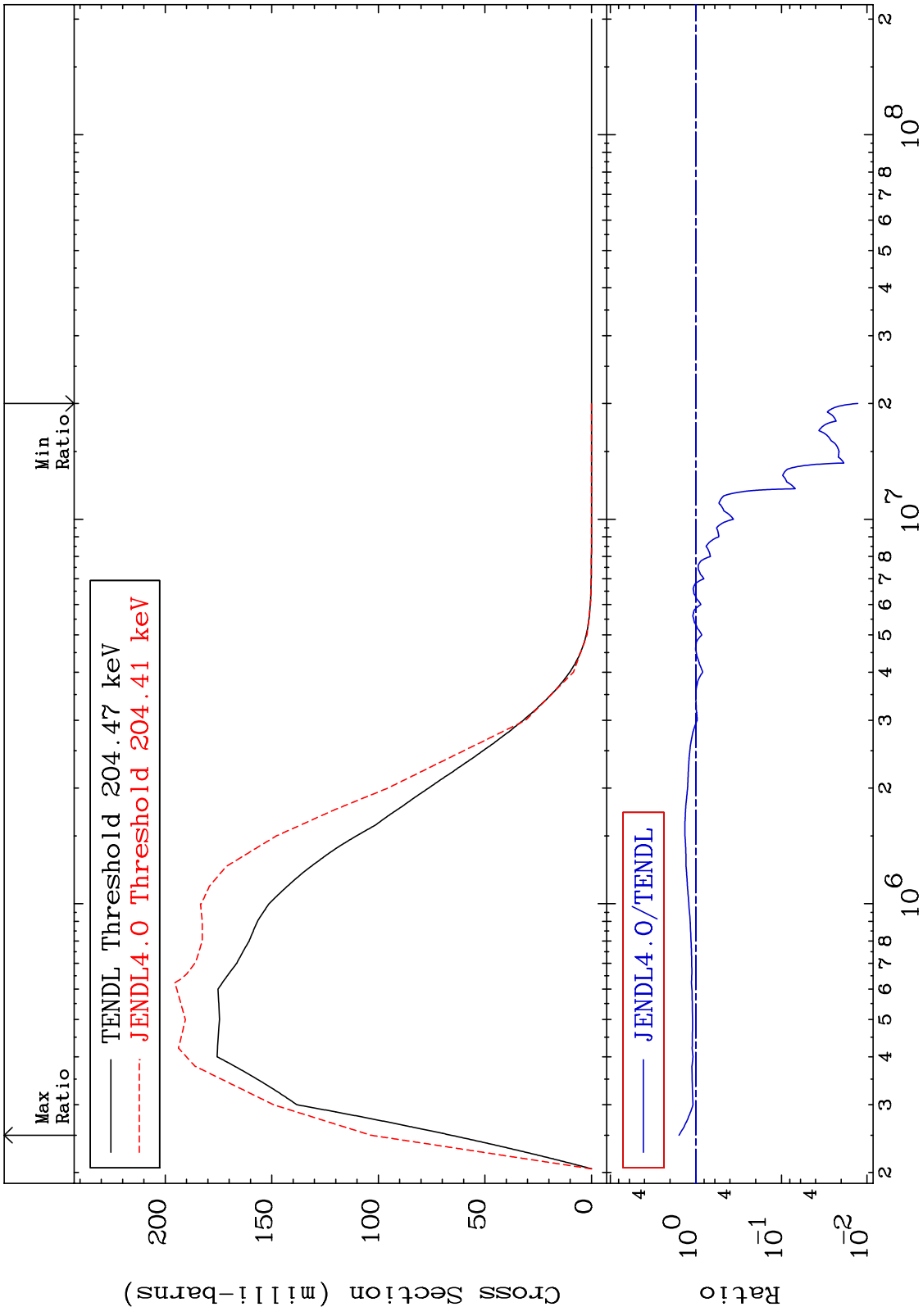


MAT 5325 MT= 51 (n,n') Level Cross Section 53-I -127
 -100.0 To 47.94 %

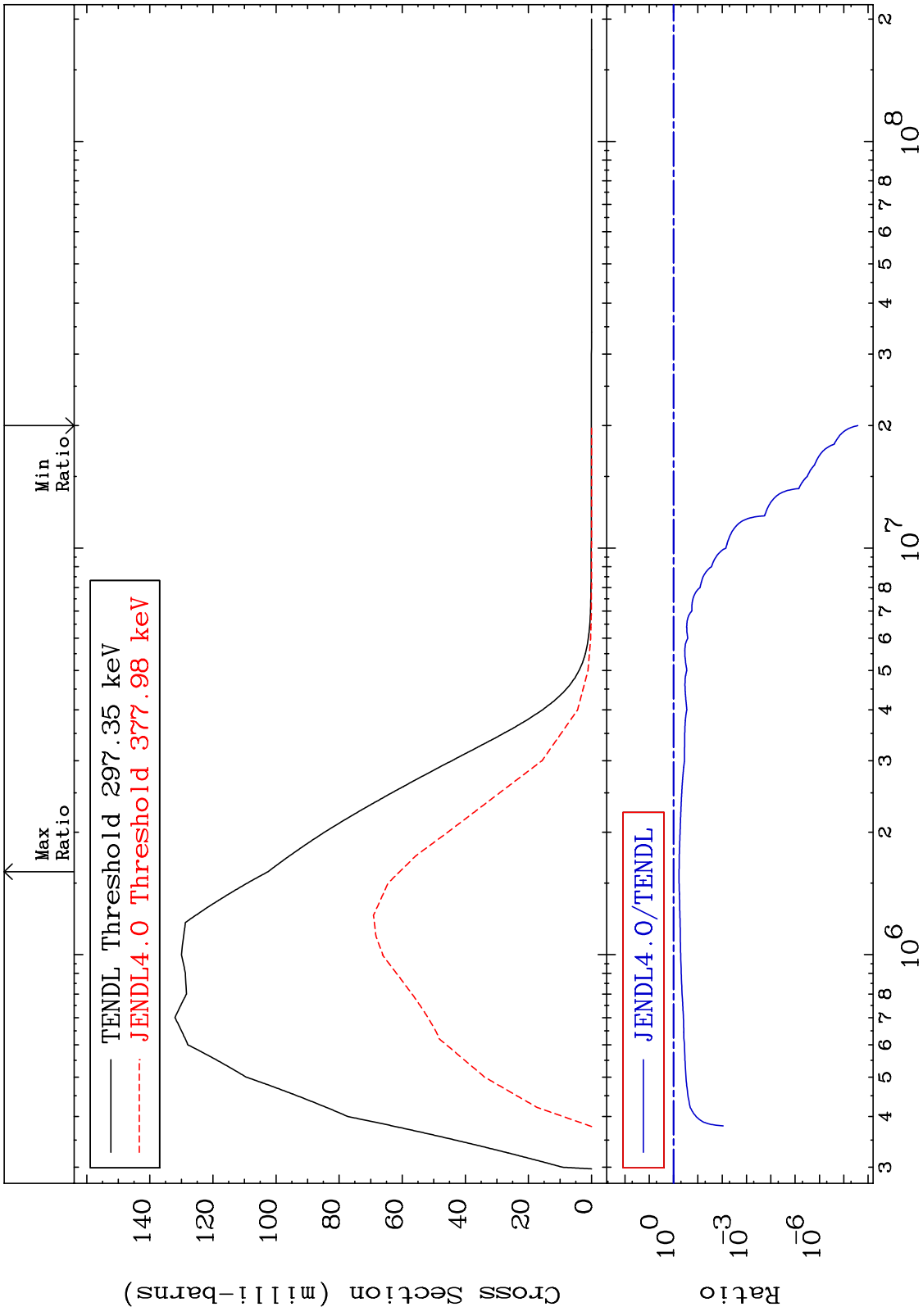


10 Incident Energy (eV) 53-I -127

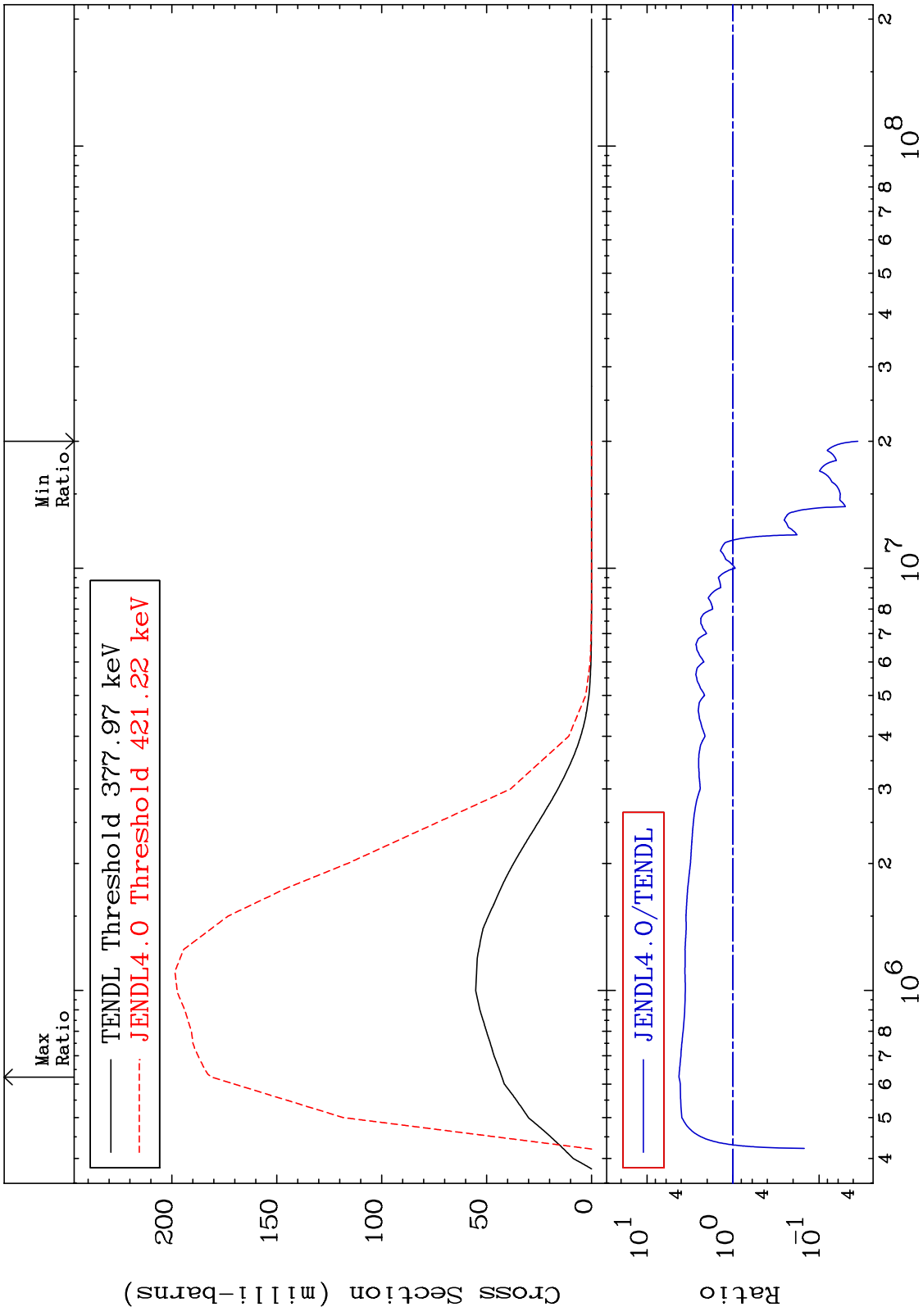
MAT 5325 MT= 52 (n,n') Level Cross Section 53-I -127
 -98.72 To 57.27 %



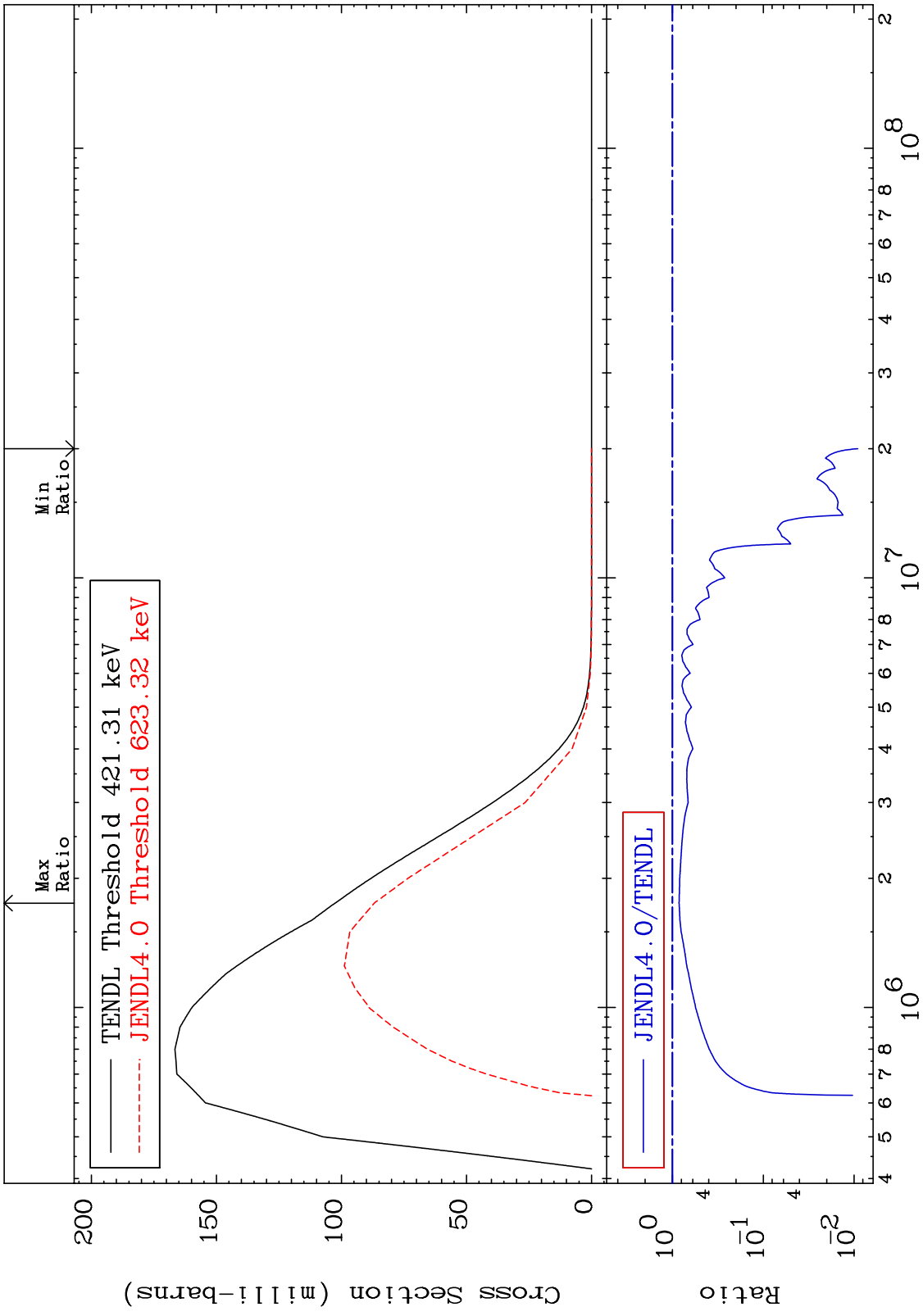
MAT 5325 MT= 53 (n,n') Level Cross Section 53-I -127
 -100.0 To -40.69%



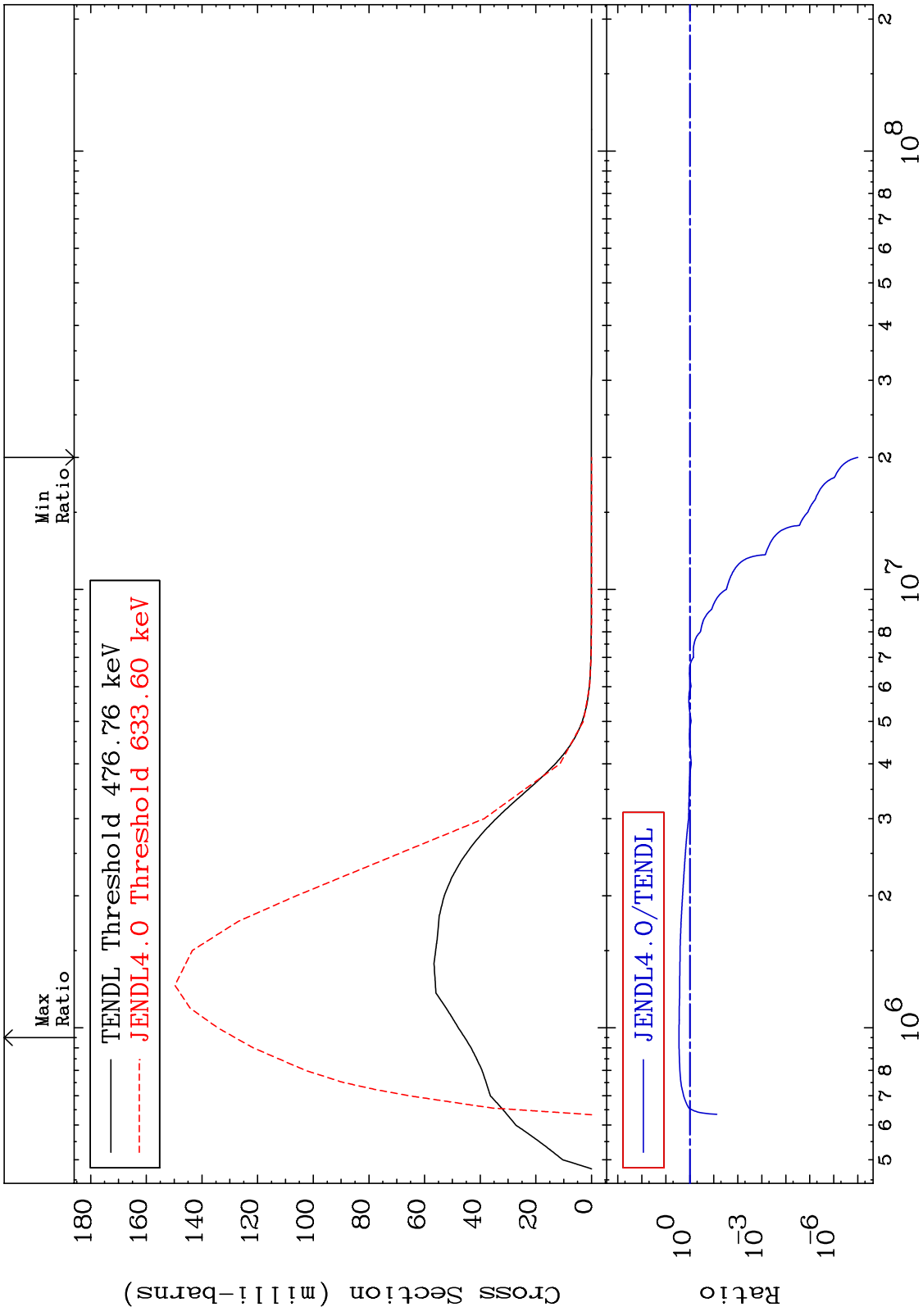
MAT 5325 MT= 54 (n,n') Level Cross Section 53-I -127
 -96.46 To 324.2 %



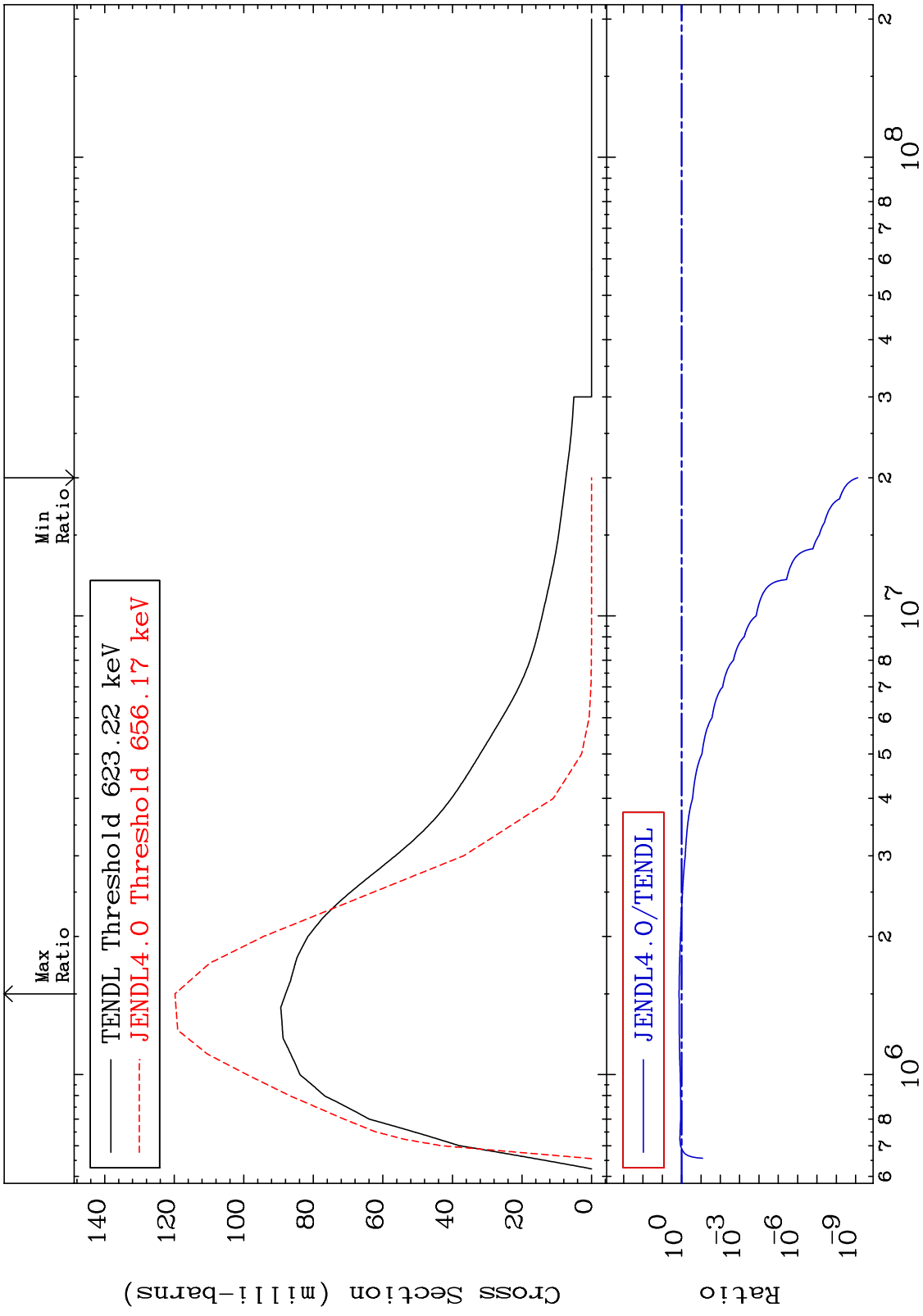
MAT 5325 MT= 55 (n,n') Level Cross Section 53-I -127
 -99.09 To -15.26%



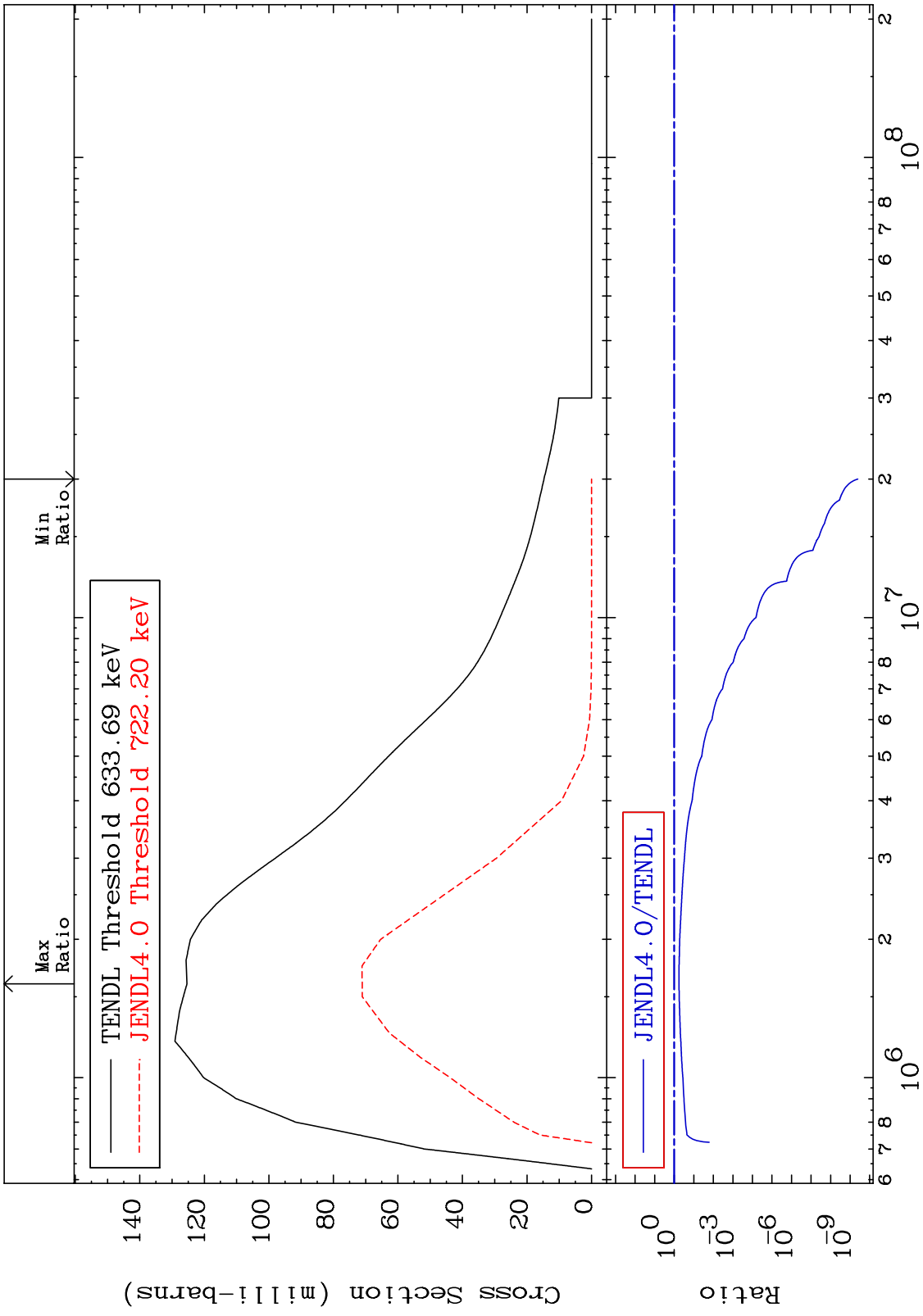
MAT 5325 MT= 56 (n,n') Level Cross Section 53-I -127
 -100.0 To 181.2 %



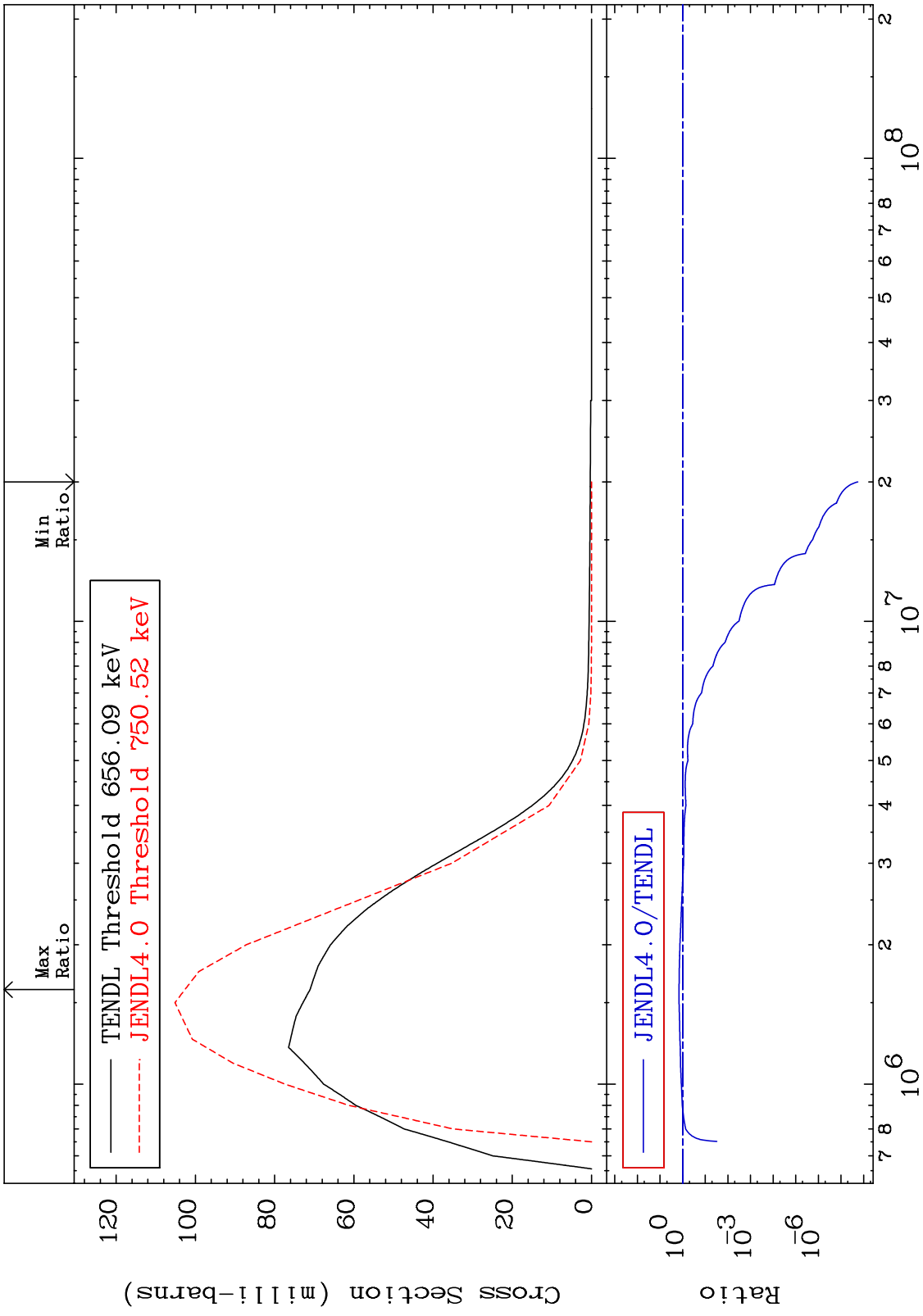
MAT 5325 MT= 57 (n,n') Level Cross Section 53-I -127
 -100.0 To 36.19 %



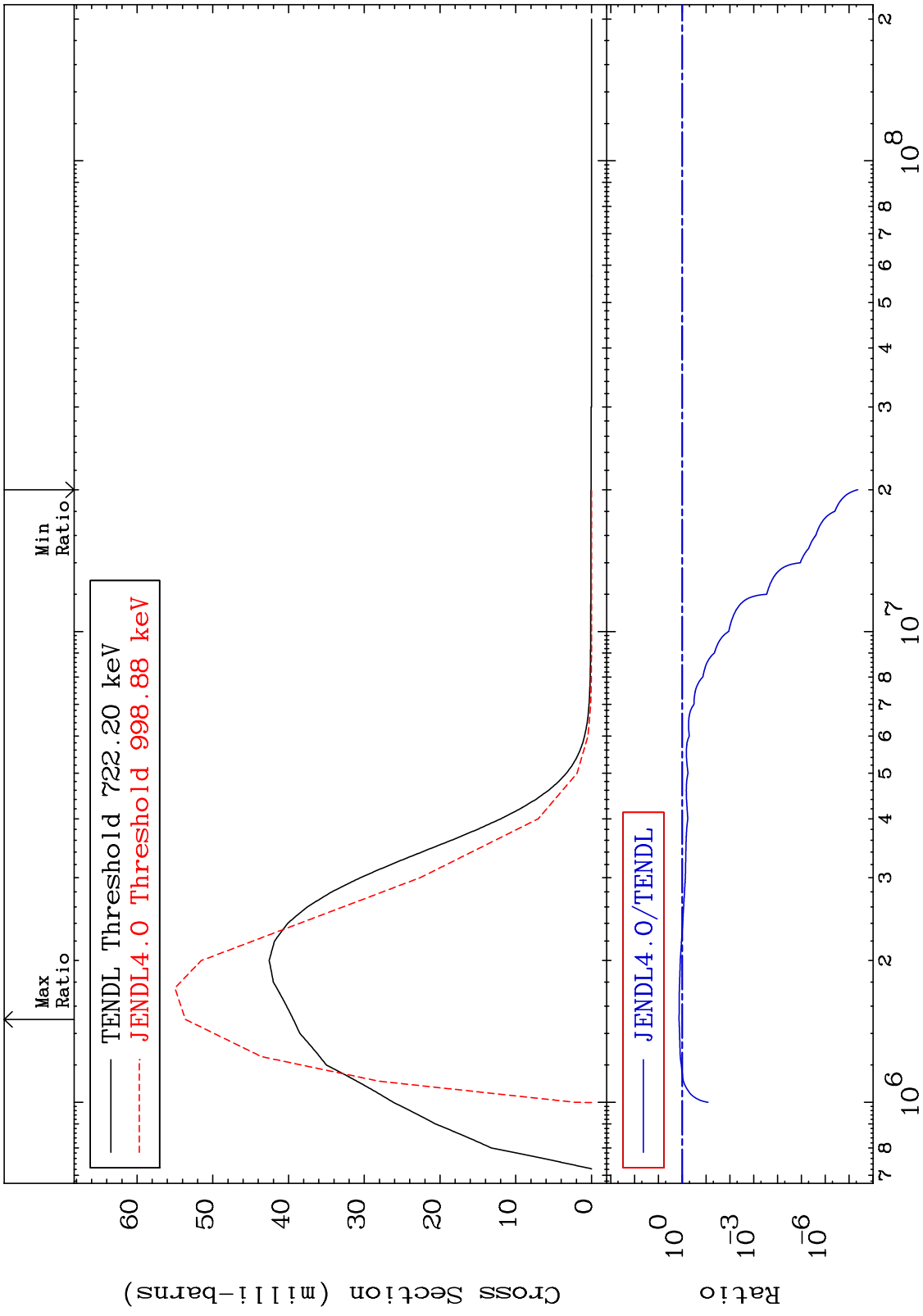
MAT 5325 MT= 58 (n,n') Level Cross Section 53-I -127
 -100.0 To -43.30%

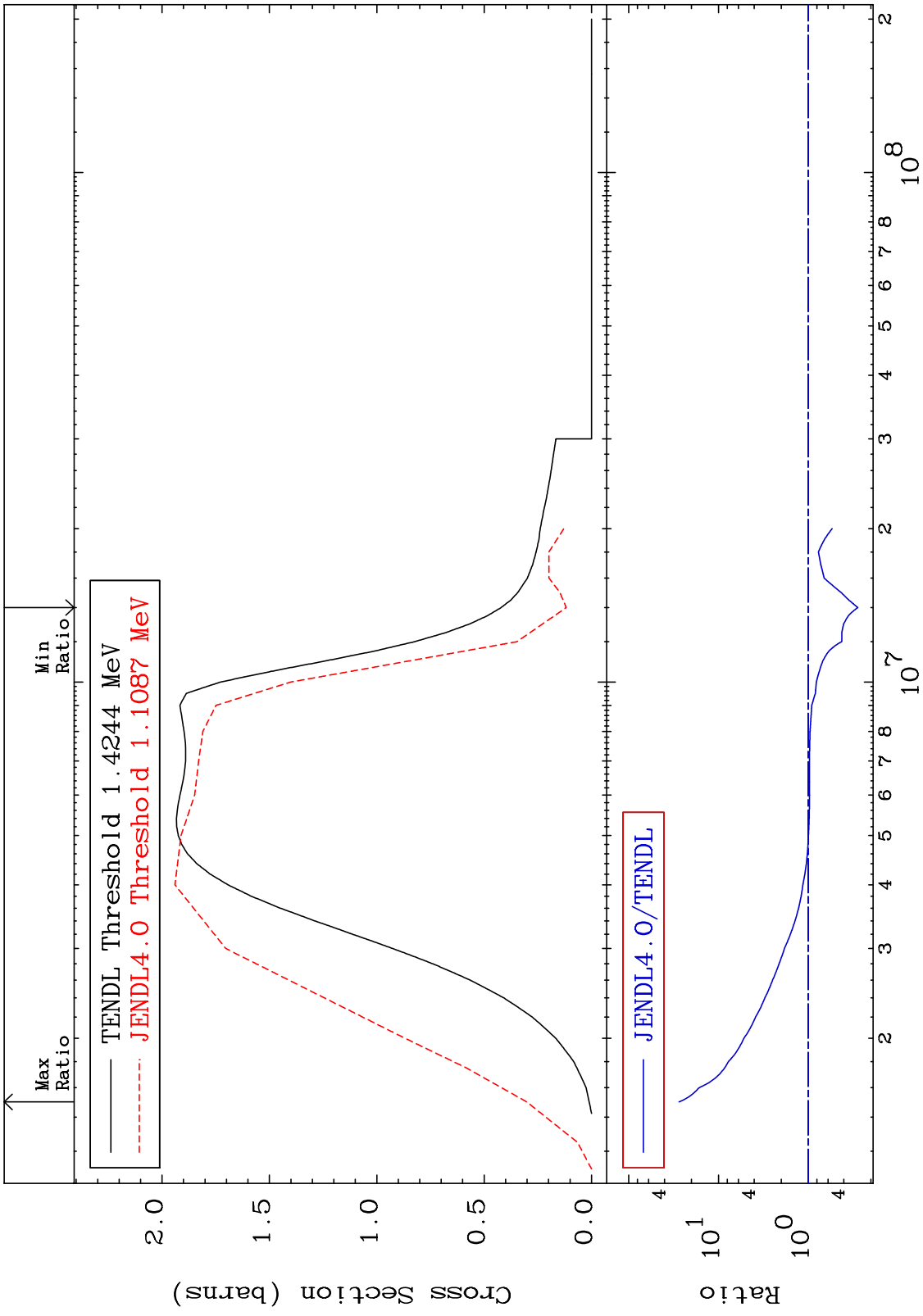


MAT 5325 MT= 59 (n,n') Level Cross Section 53-I -127
 -100.0 To 44.44 %



MAT 5325 MT= 60 (n,n') Level Cross Section 53-I -127
 -100.0 To 36.18 %





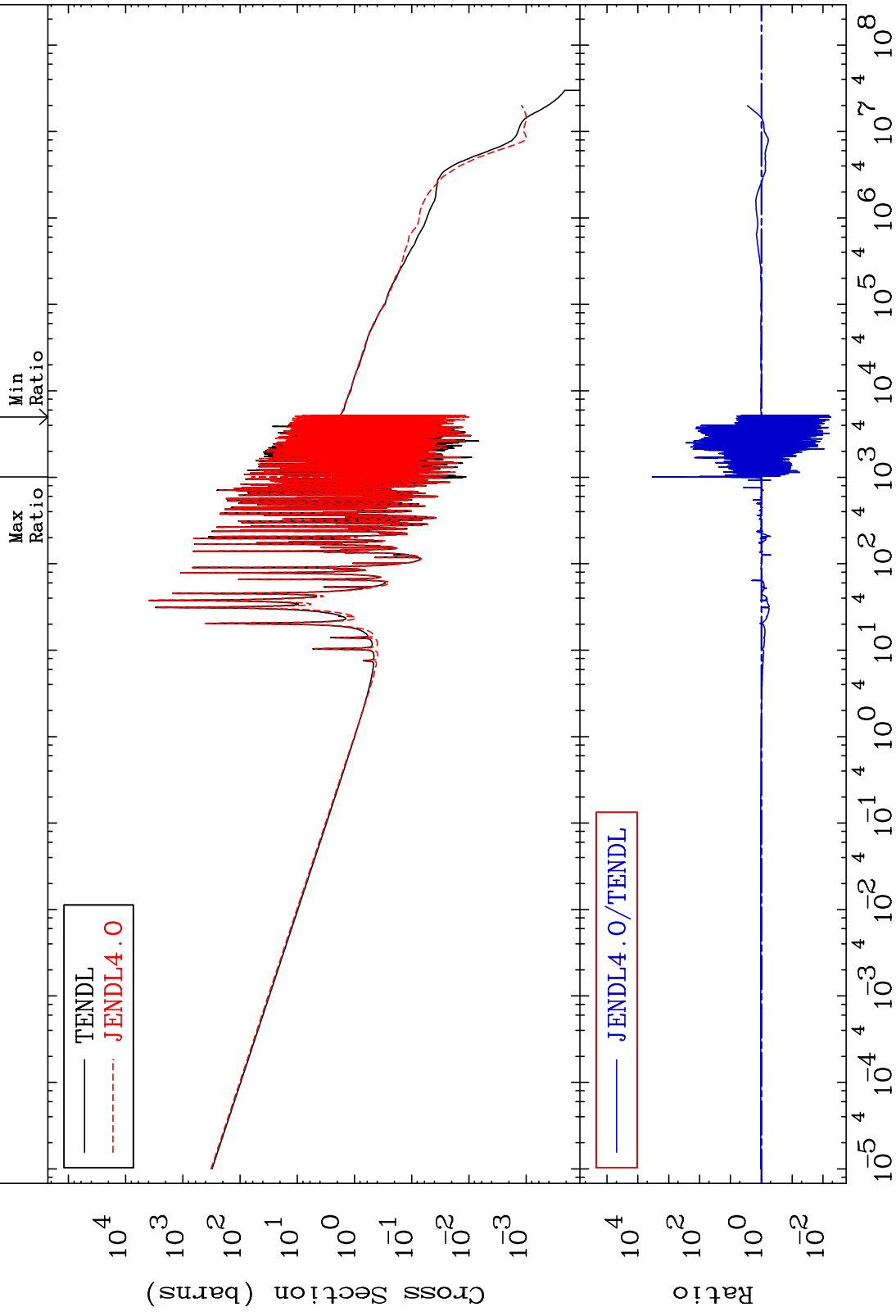
MAT 5325

(n, γ)

53-I -127

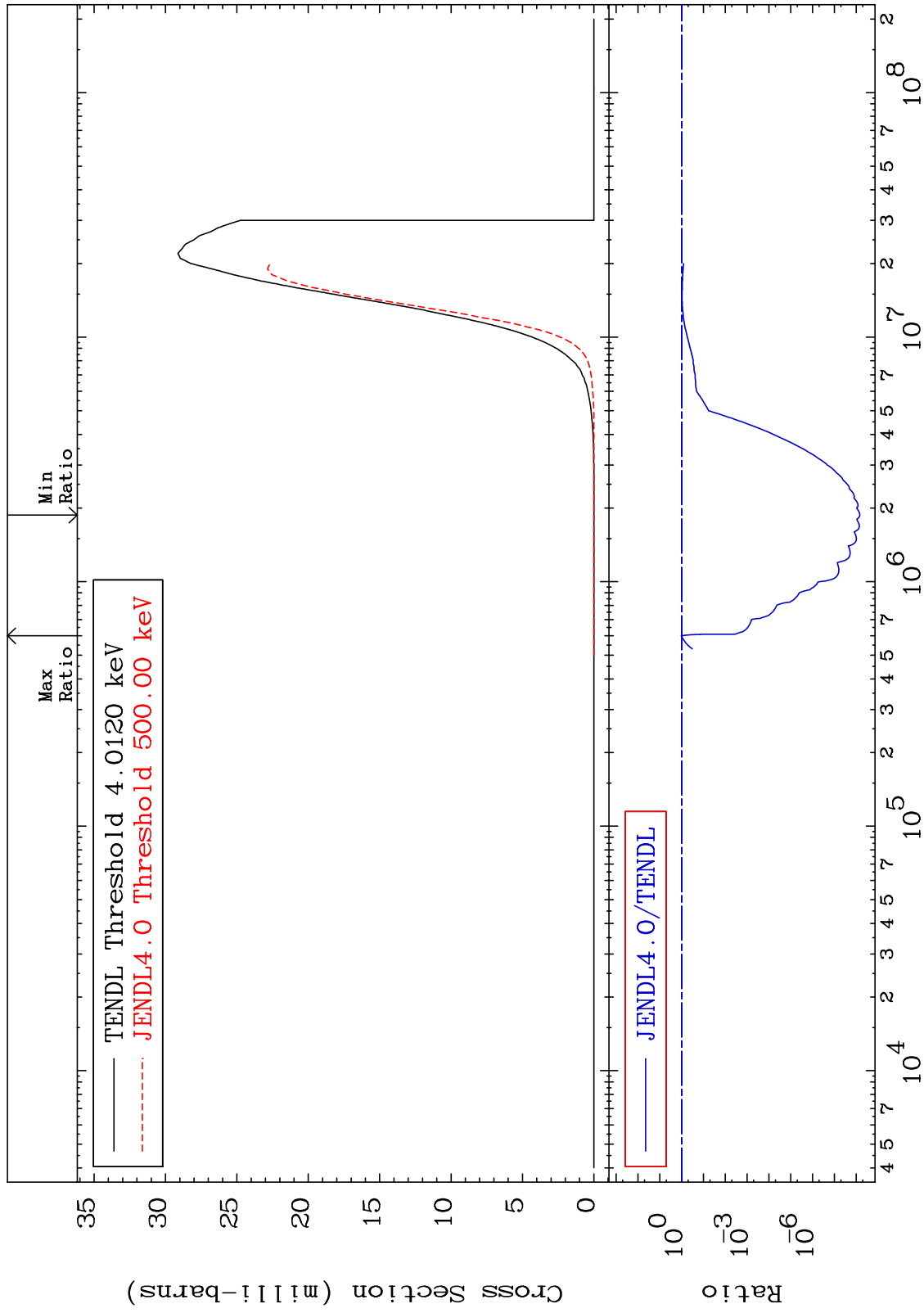
-99.44 To 9999. %

Cross Section



MAT 5325

(n,p) Cross Section
53-I -127
-100.0 To 3.947 %



MAT 5325

(n,d)

53-I -127

-100.0 To 15.79 %

Cross Section

Min Ratio

Max Ratio

25

20

15

10

5

0

— TENDL Threshold 4.0146 MeV
- - - JENDL4.0 Threshold 5.0000 MeV

— JENDL4.0/TENDL

10^0

Ratio

10^{-2}

10^{-4}

10^{-6}

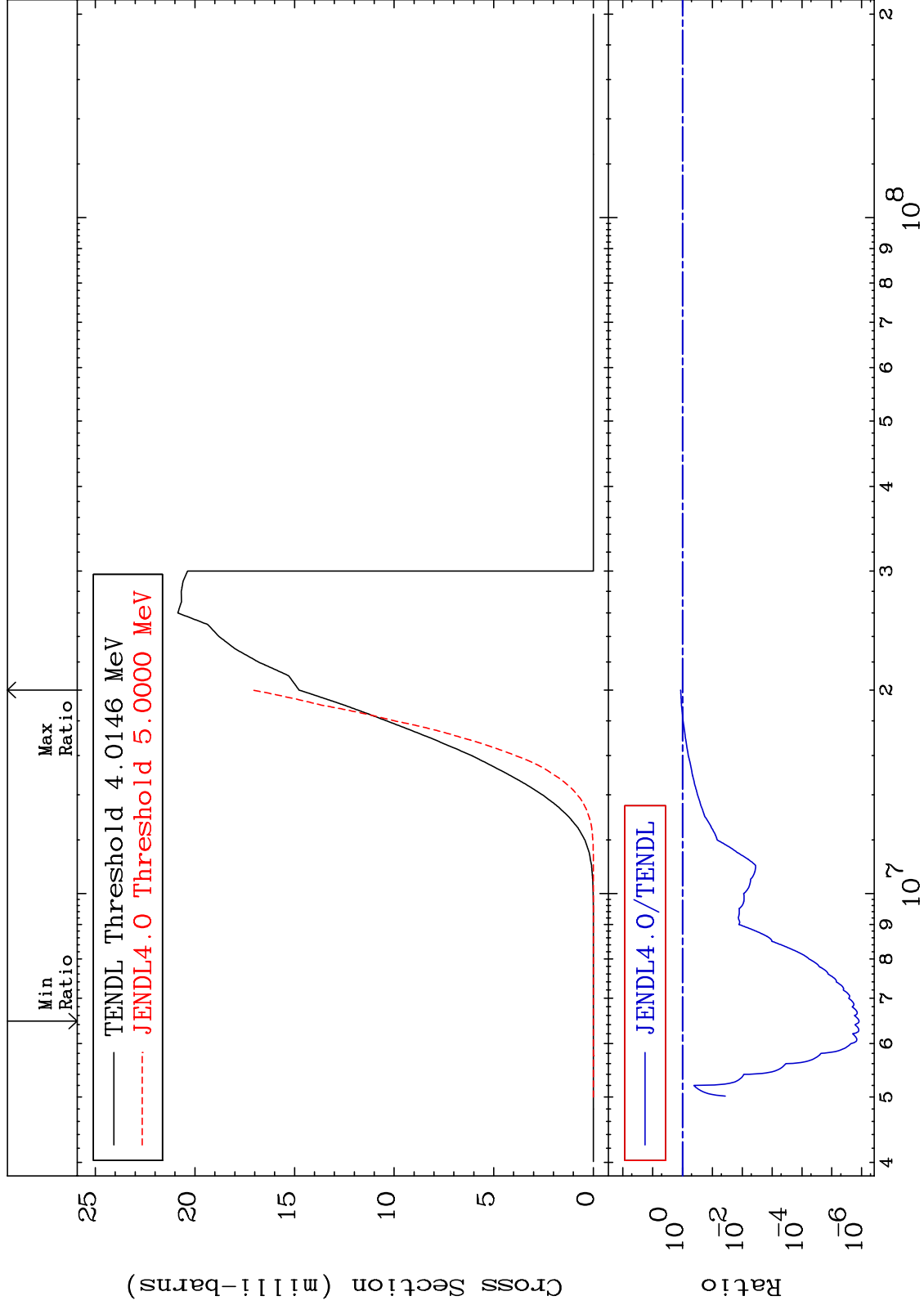
10^7

10^8

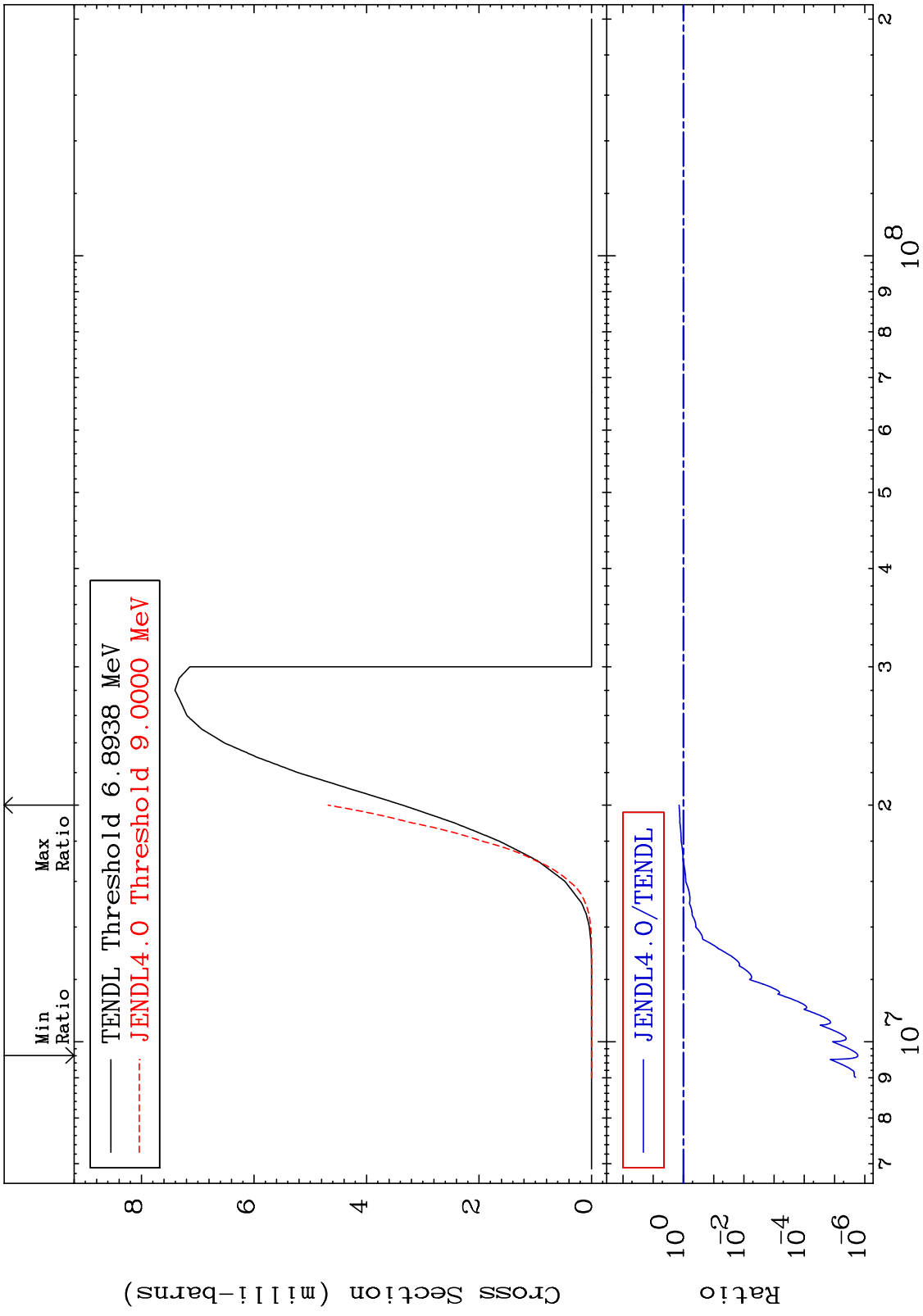
23

Incident Energy (eV)

53-I -127



MAT 5325 (n,t) Cross Section 53-I -127
 -100.0 To 39.36 %



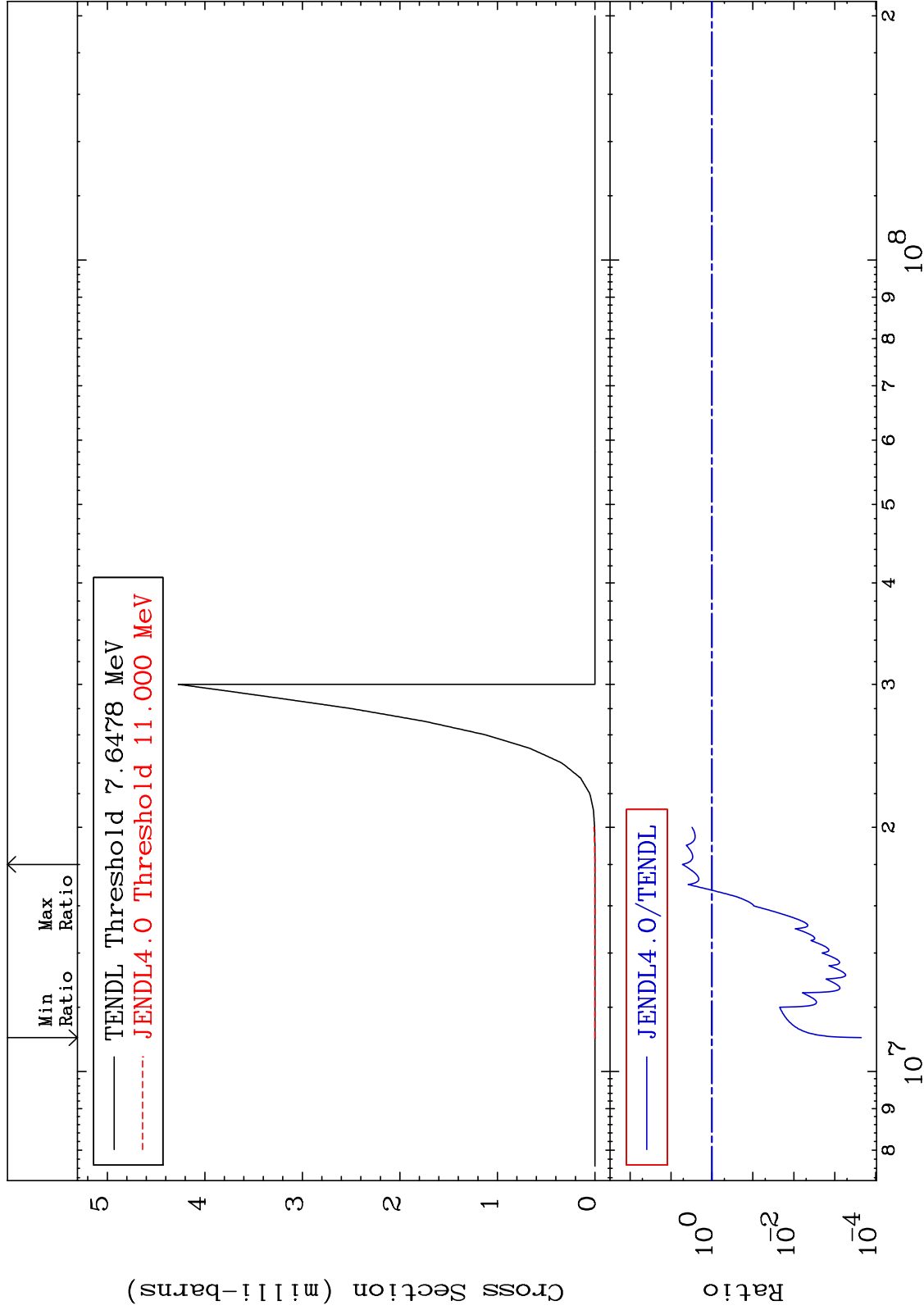
MAT 5325

(n, He-3)

53-I -127

-99.98 To 425.2 %

Cross Section



25

Incident Energy (eV)

53-I -127

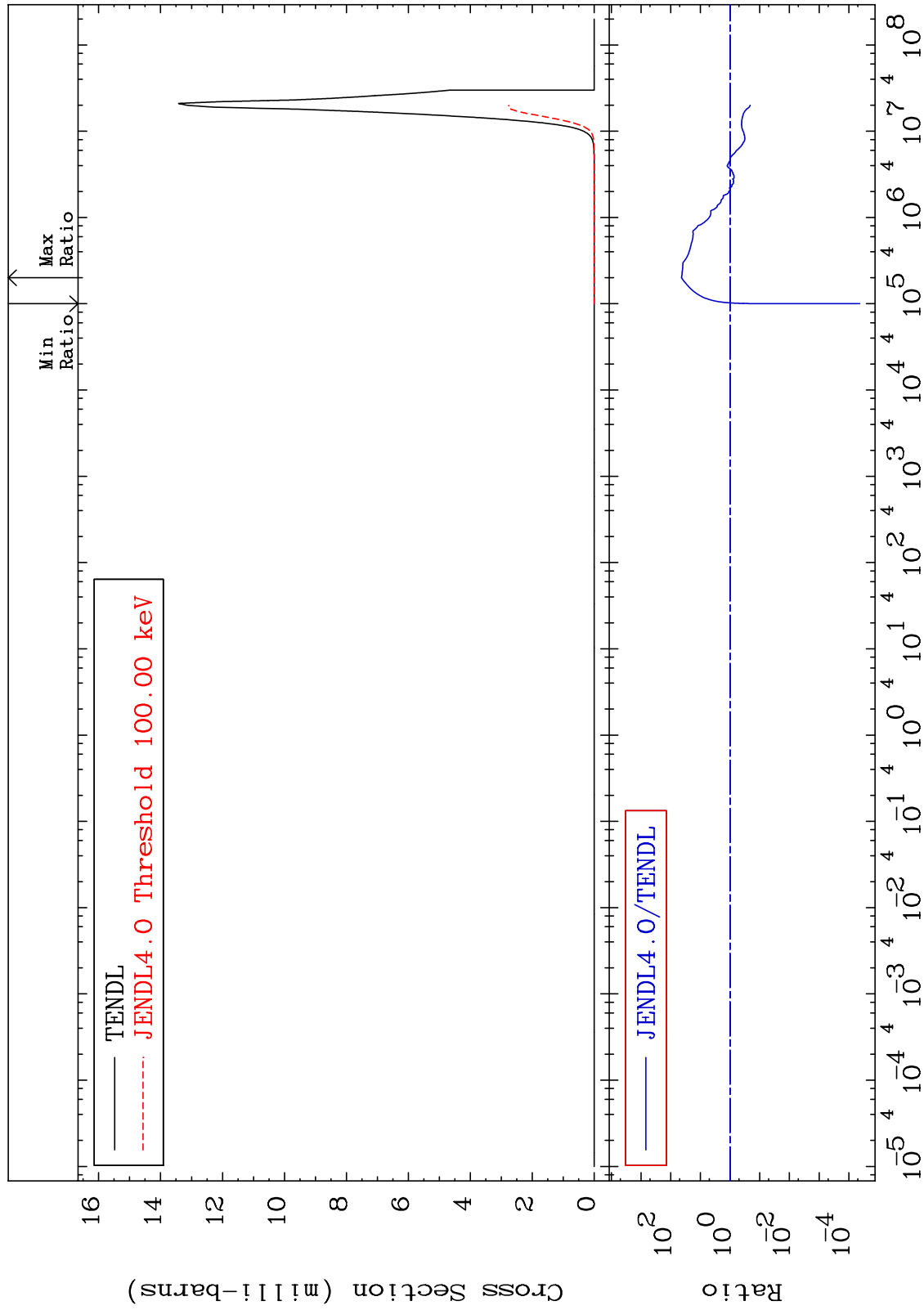
MAT 5325

(n, α)

53-I -127

Cross Section

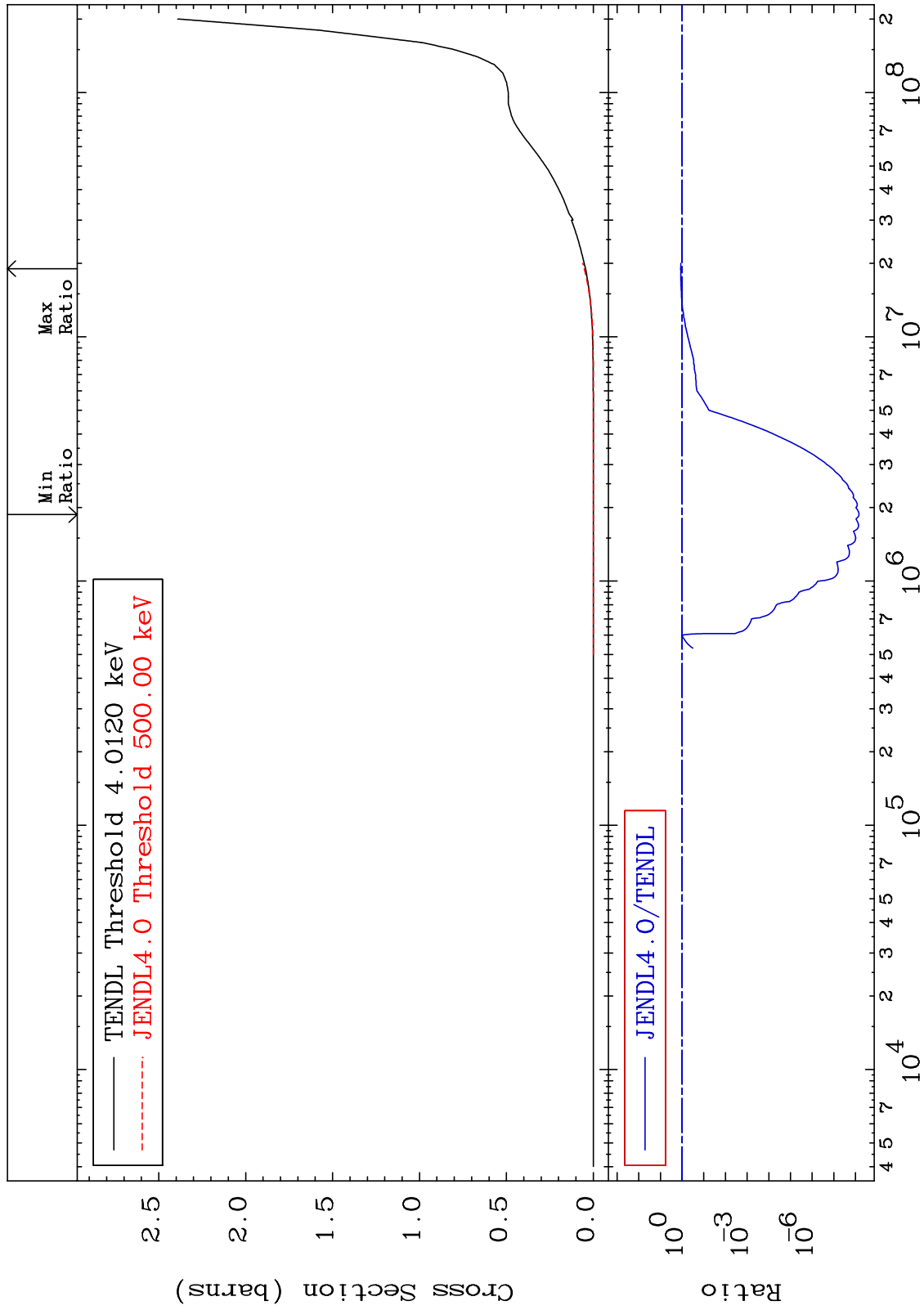
-100.0 To 4238. %



MAT 5325

Hydrogen Production Cross Section

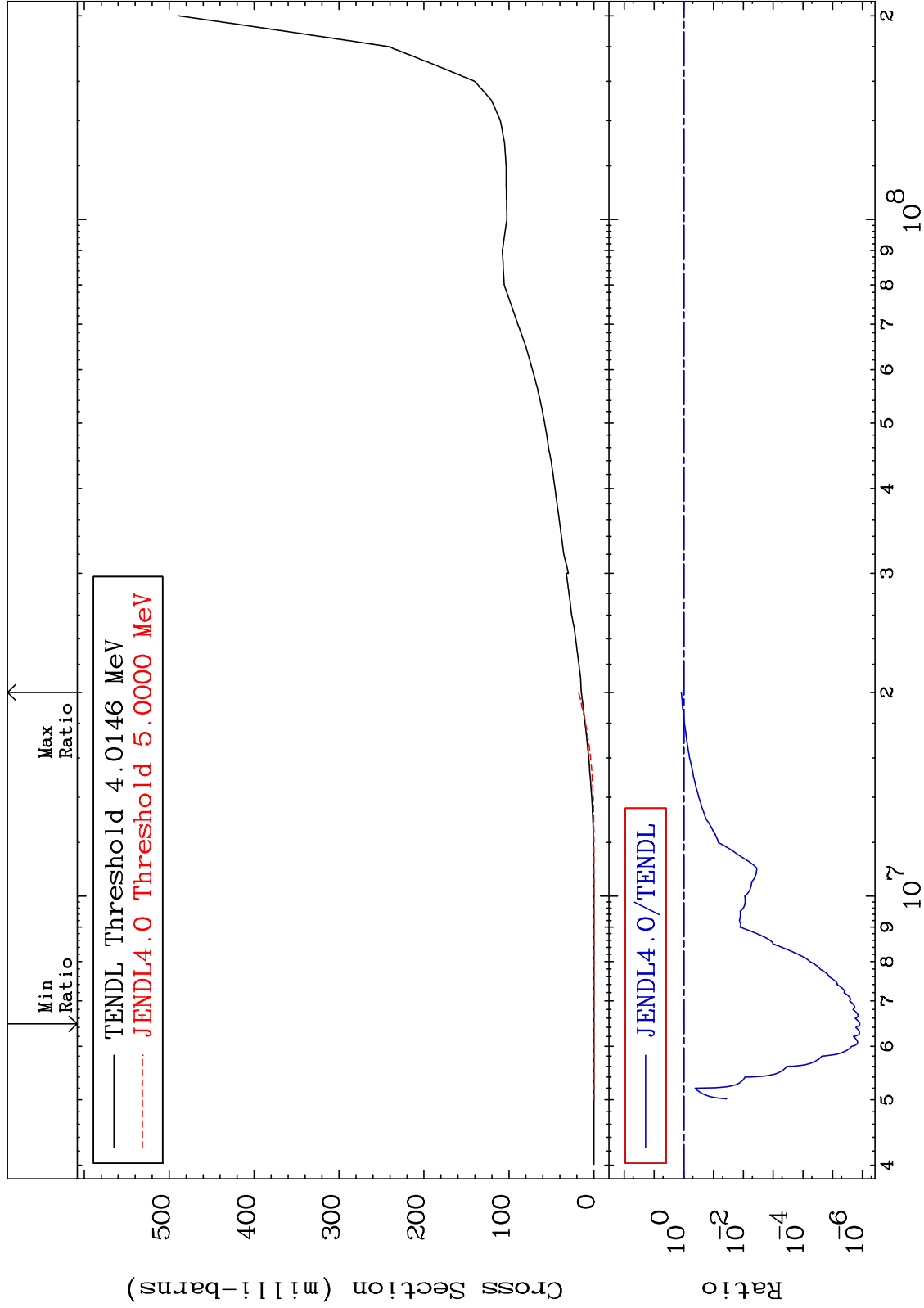
53-I -127
-100.0 To 16.76 %

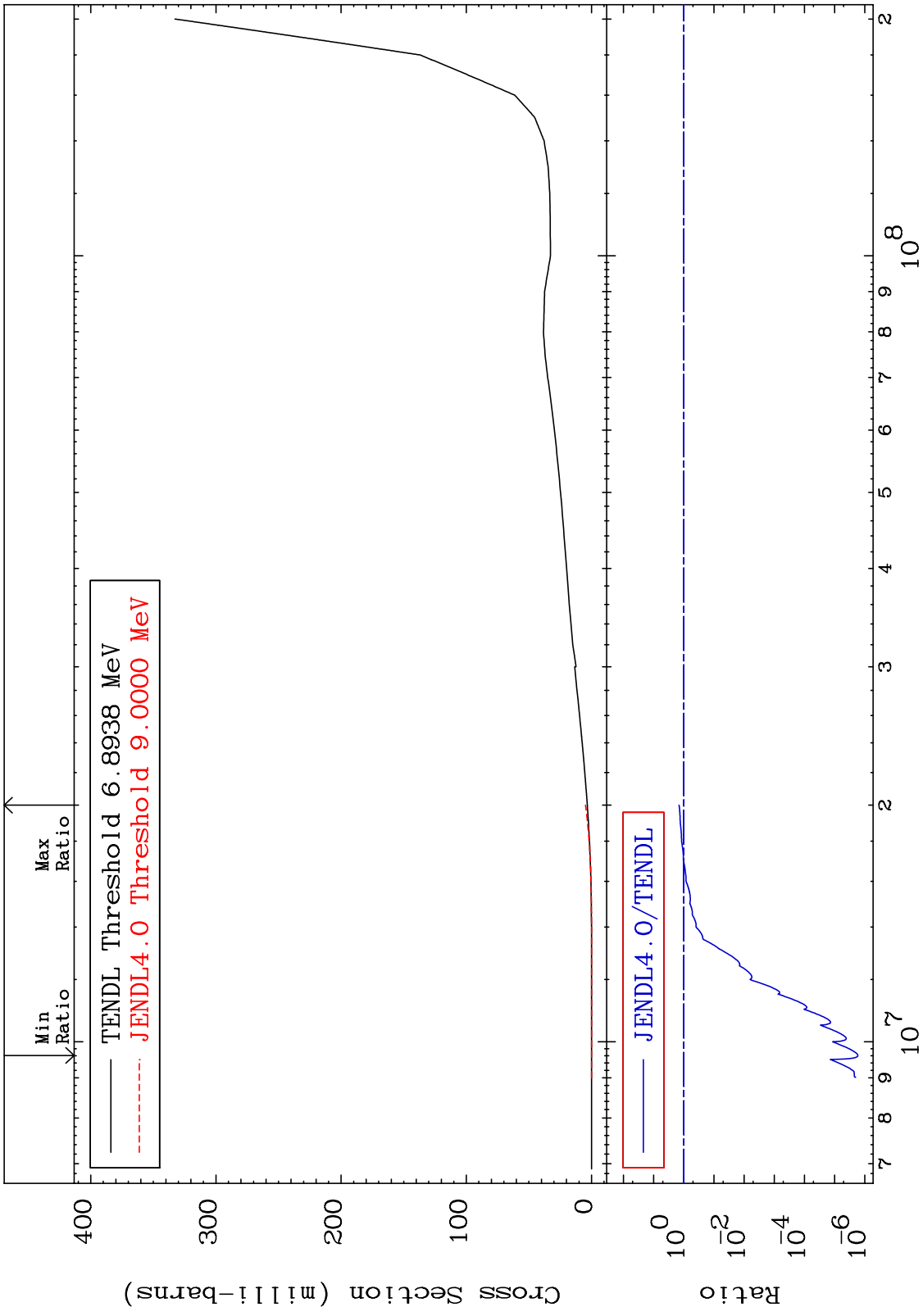


MAT 5325

Deuterium Production
Cross Section

53-I -127
-100.0 To 22.09 %

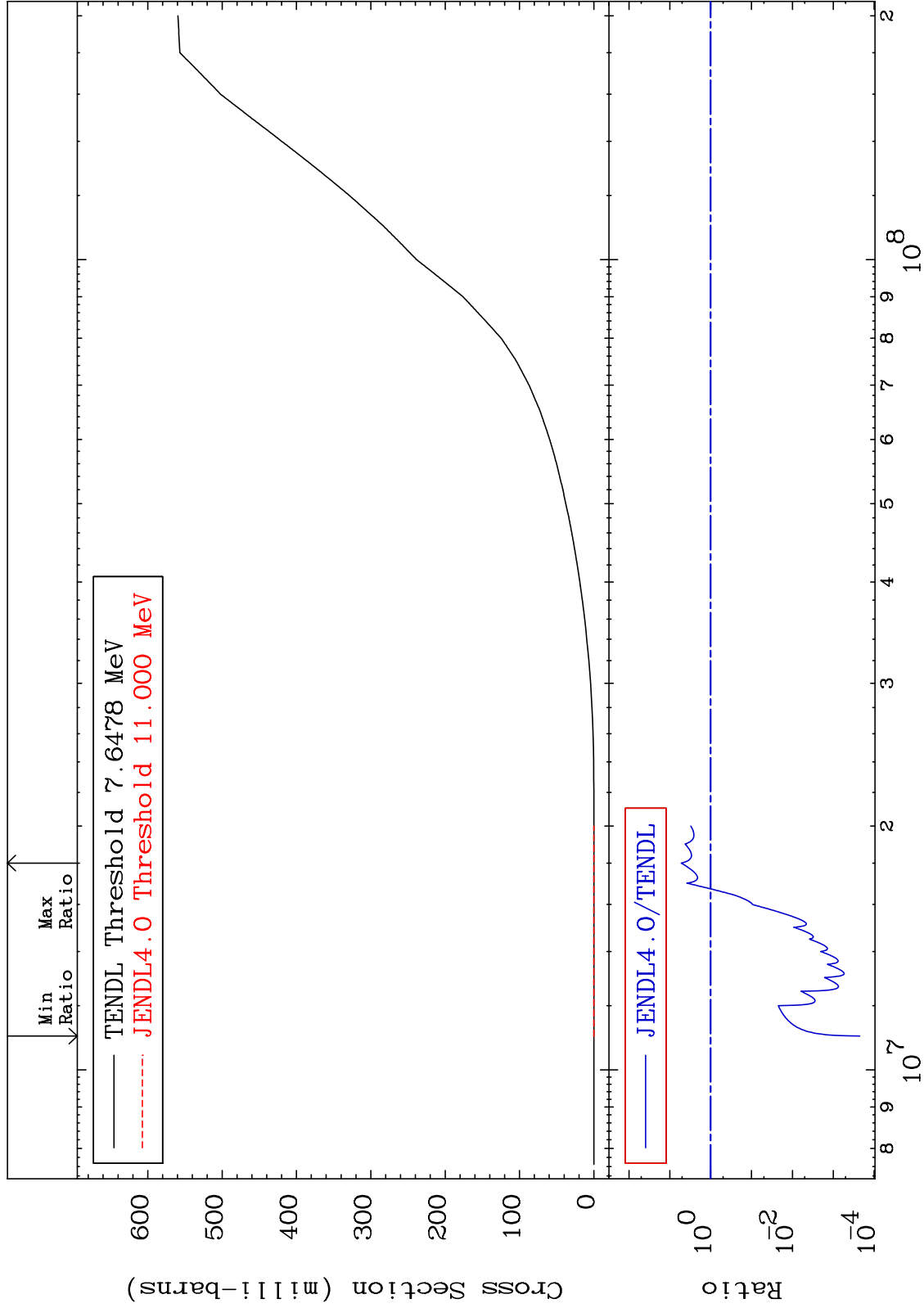




MAT 5325

He-3 Production
Cross Section

53-I -127
-99.98 To 425.2 %



30

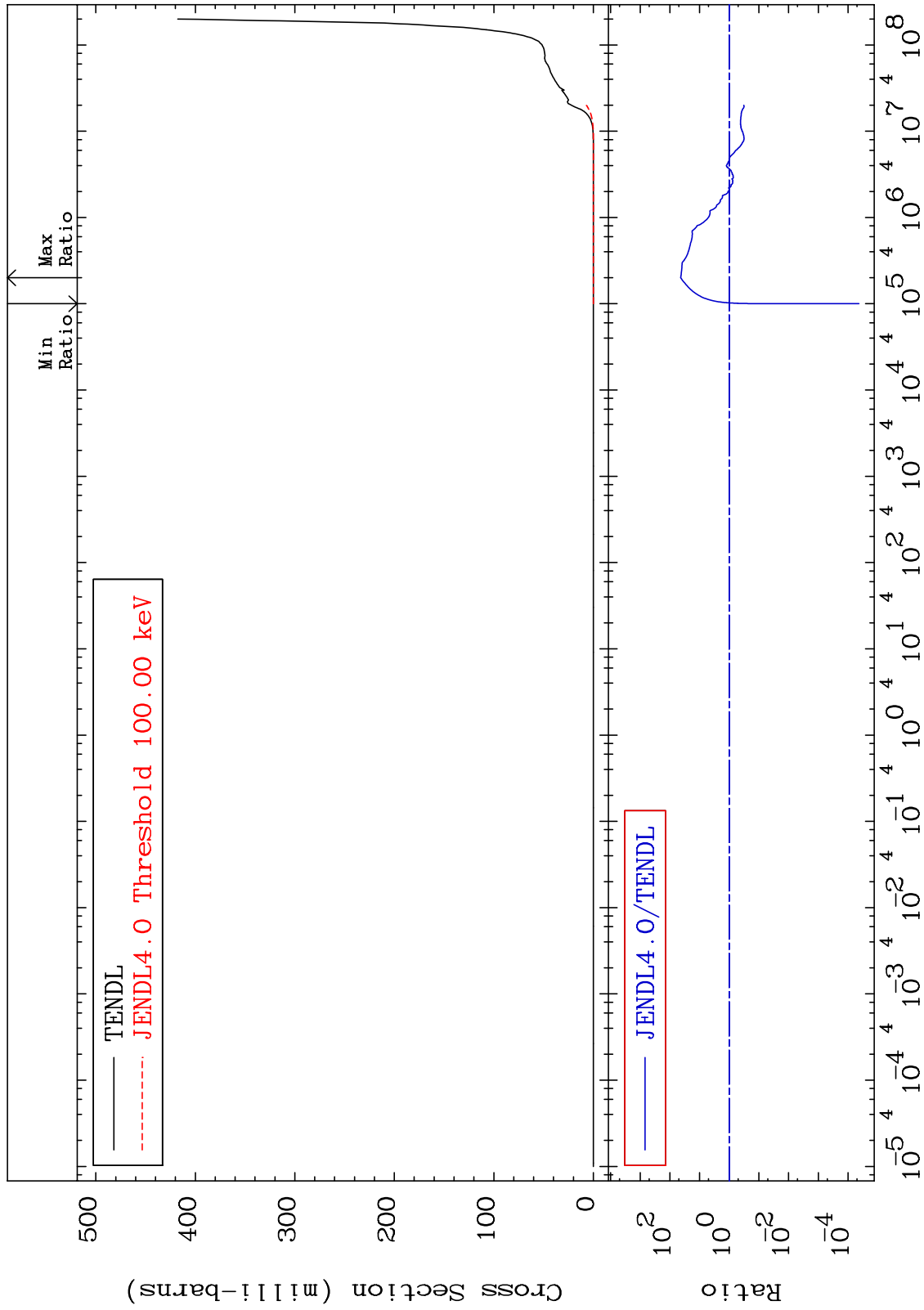
Incident Energy (eV)

53-I -127

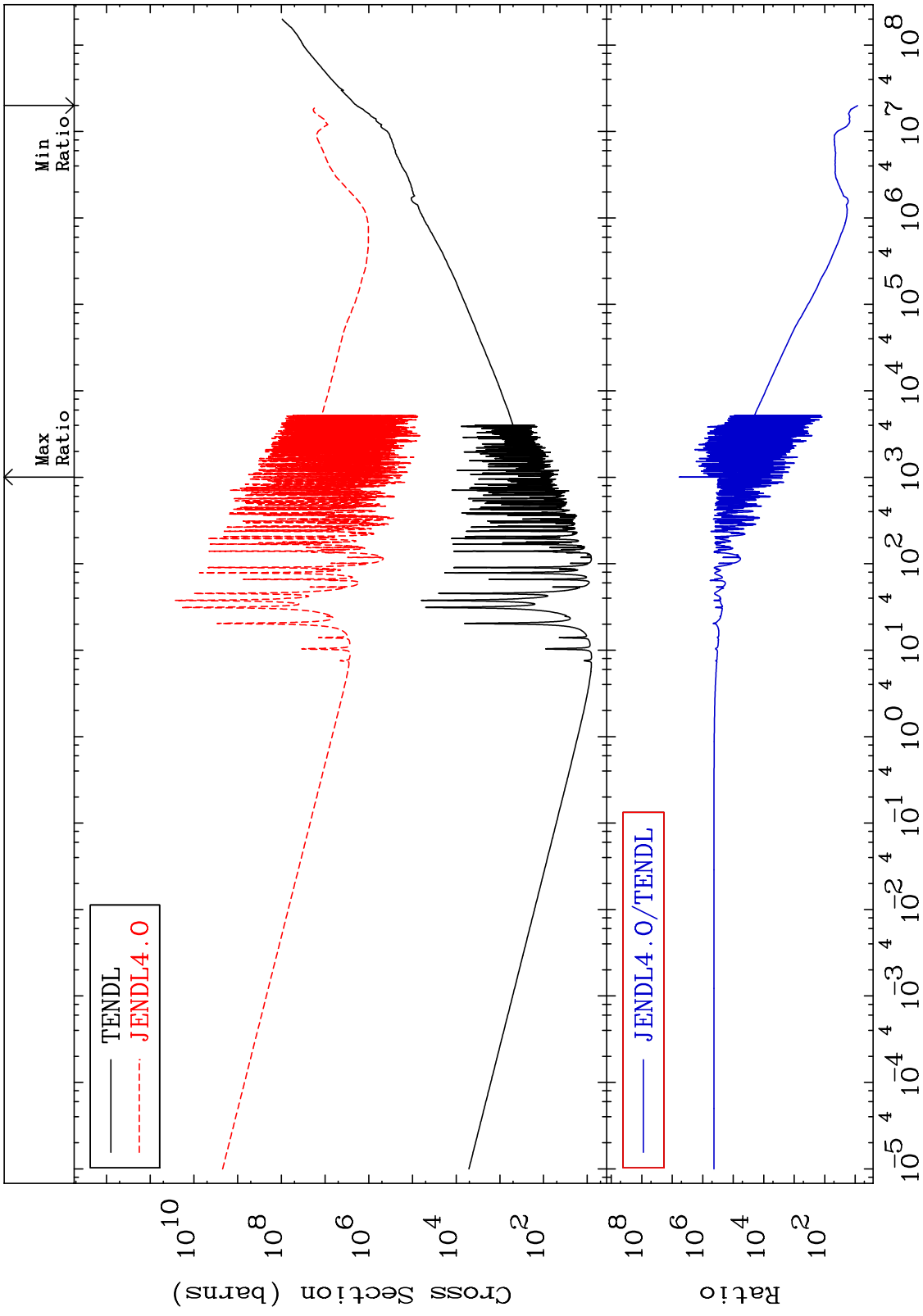
MAT 5325

He-4 Production
Cross Section

53-I -127
-100.0 To 4238. %



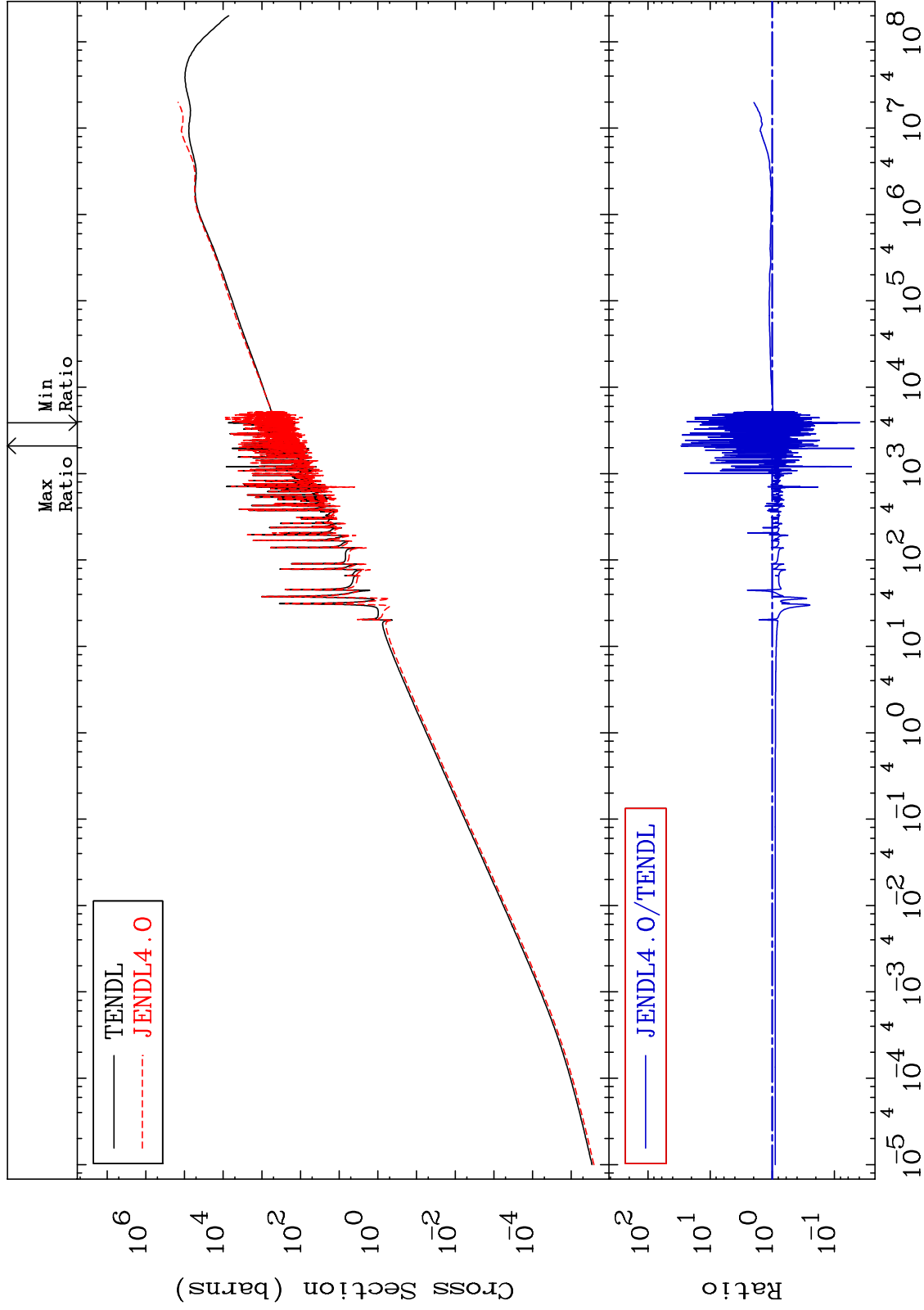
MAT 5325 Kerma total (eV-barns)
 Cross Section 53-I -127
 718.5 To 9999. %



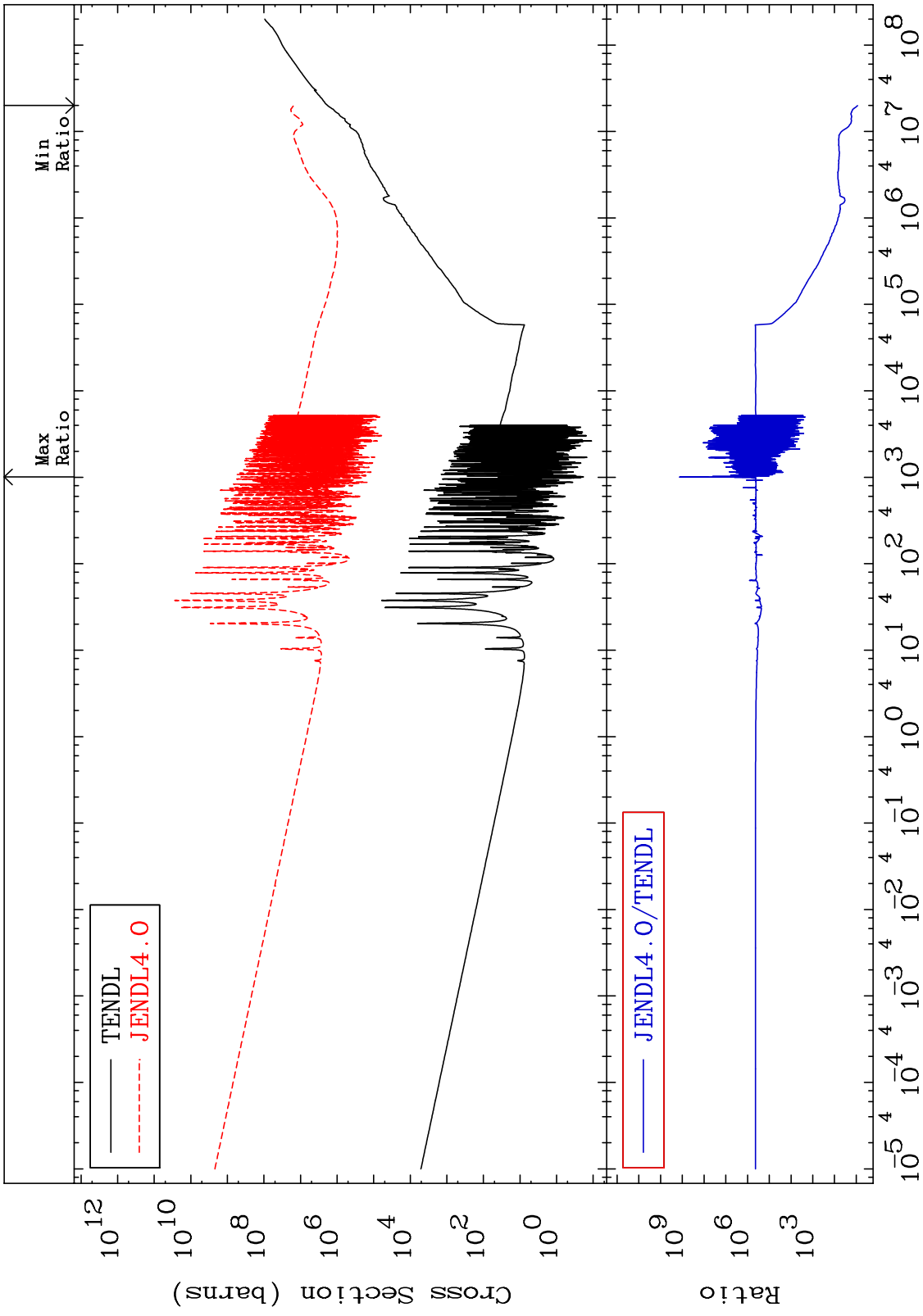
MAT 5325

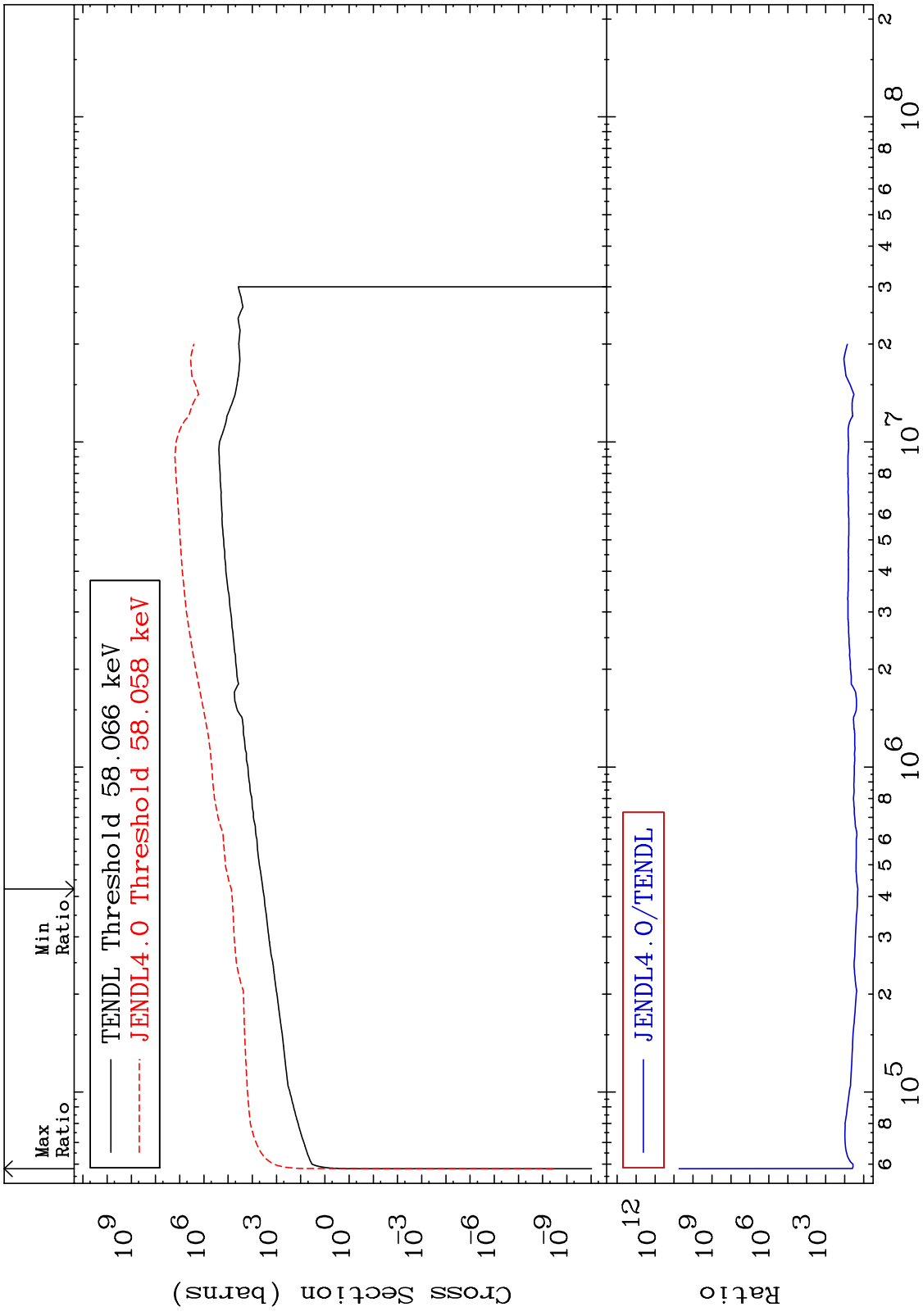
Kerma elastic
Cross Section

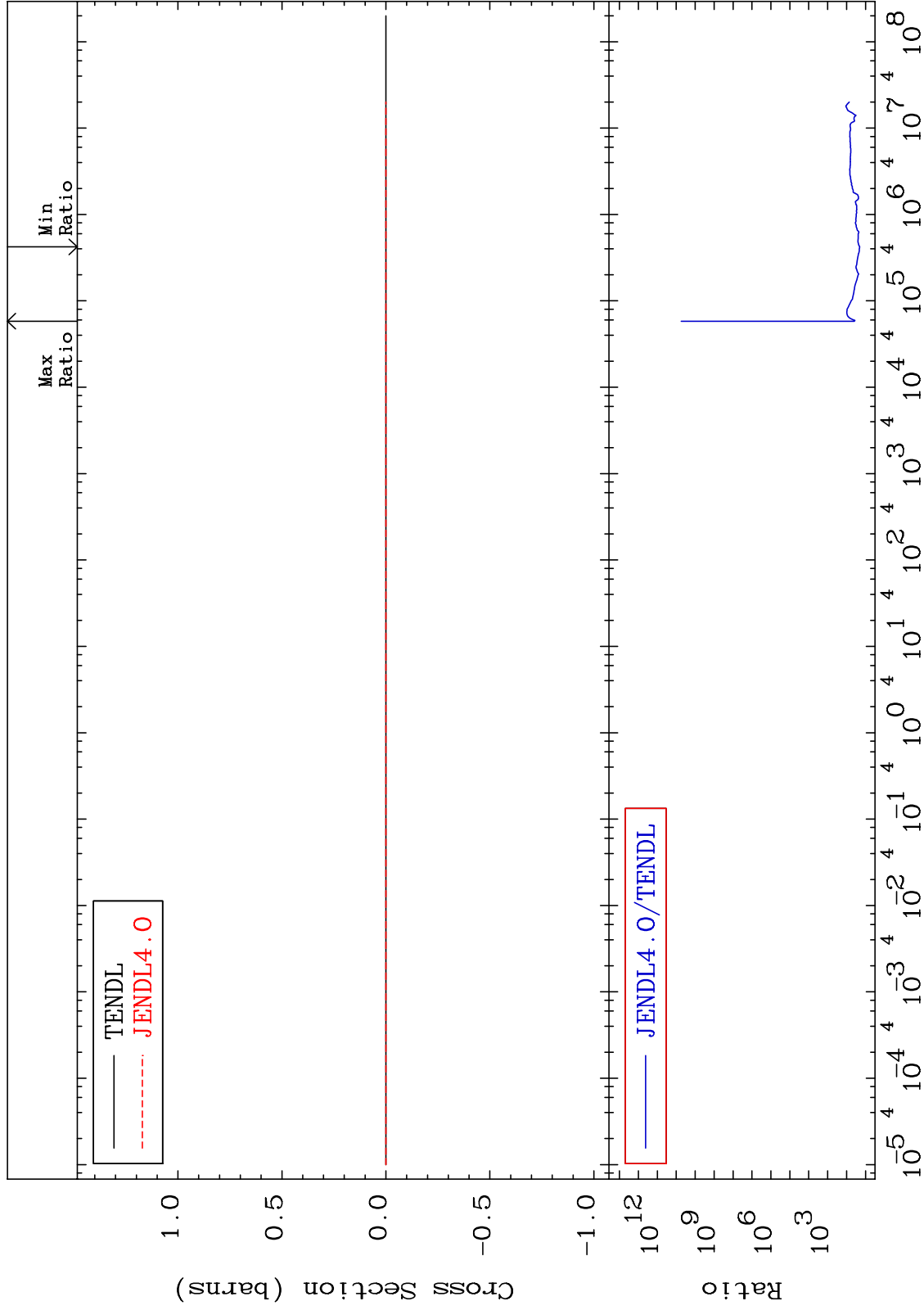
53-I -127
-96.08 To 2811. %

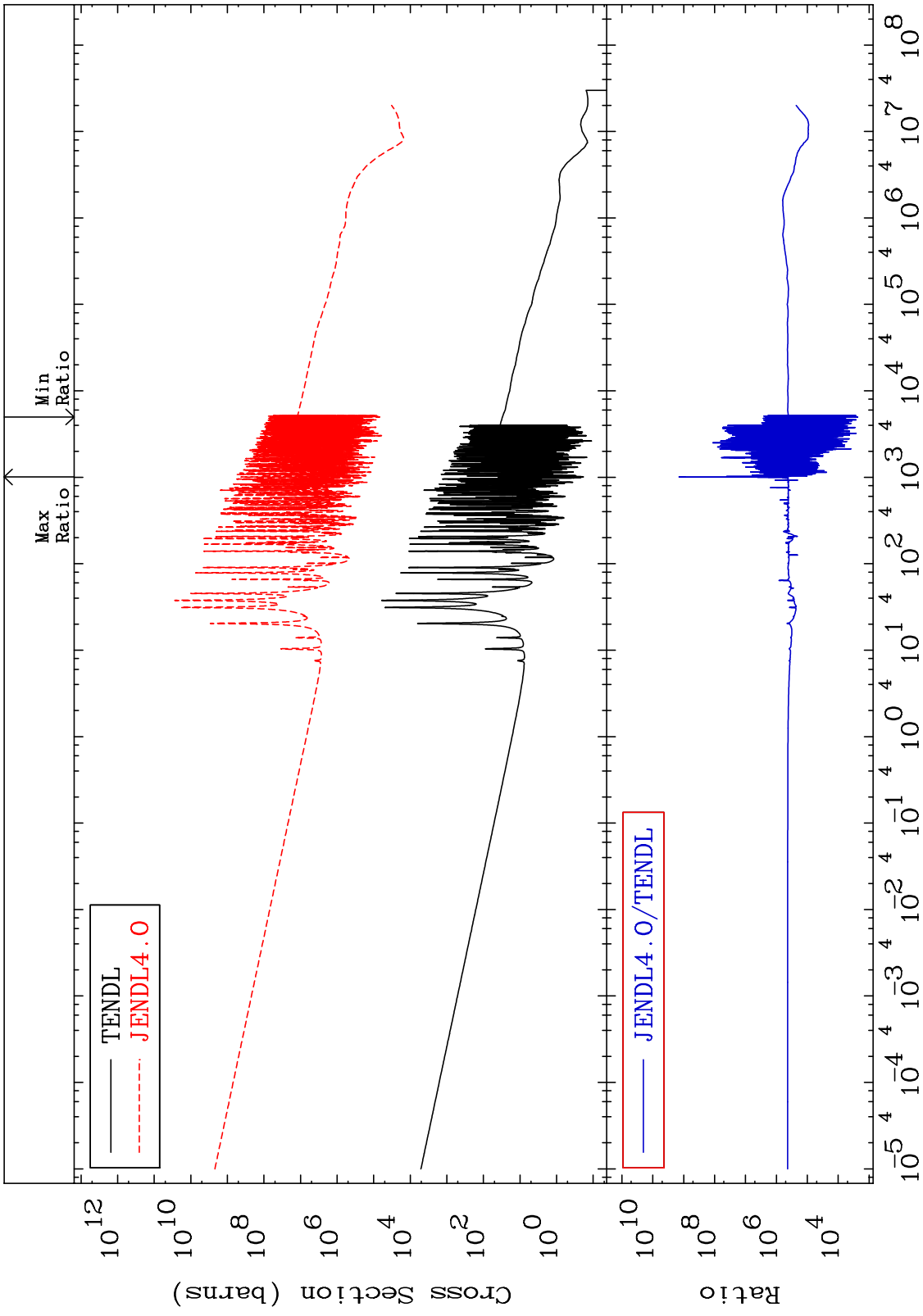


MAT 5325 Kerma non-elastic (all but mt2) 53-I -127
 Cross Section 743.9 To 9999. %

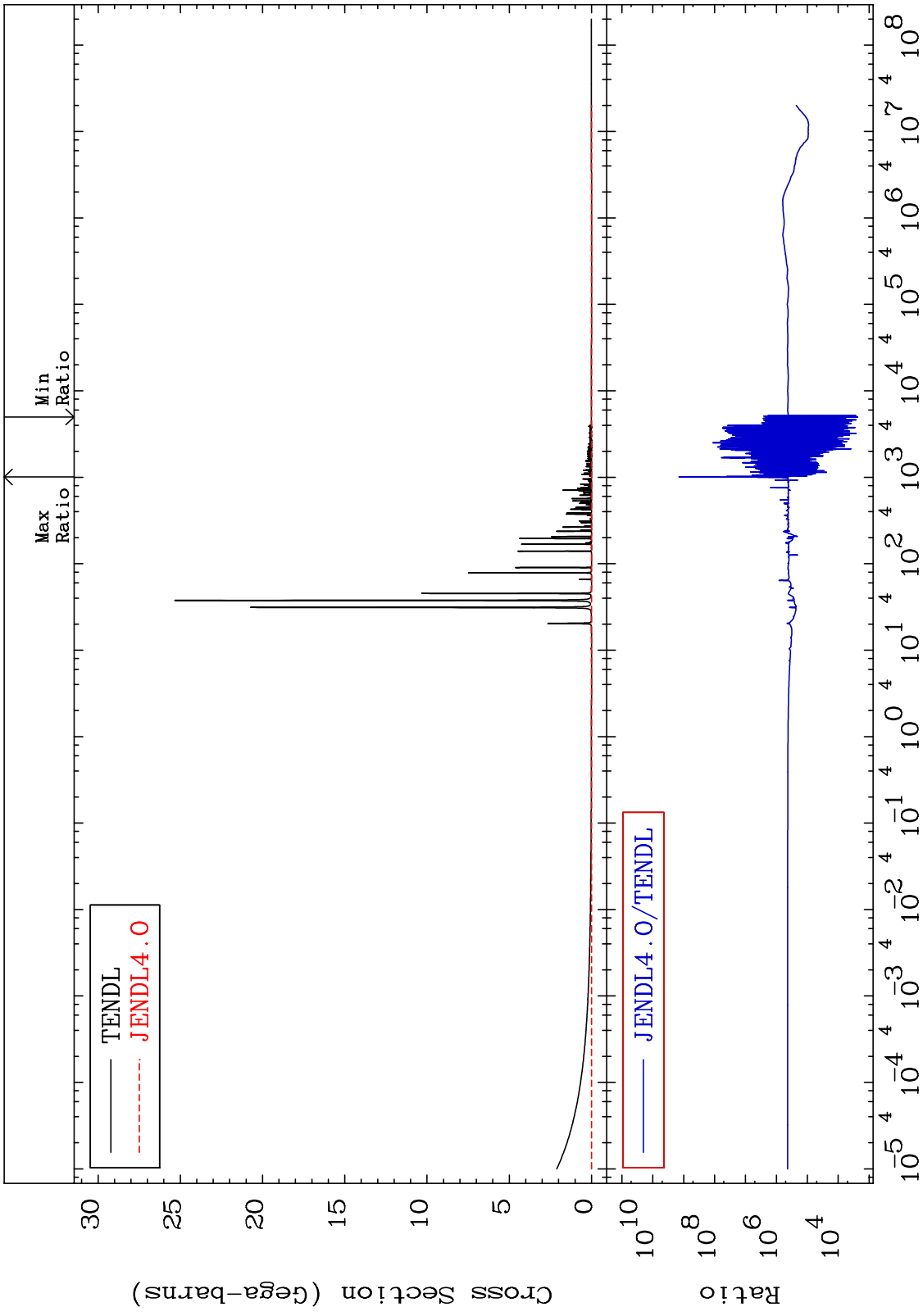




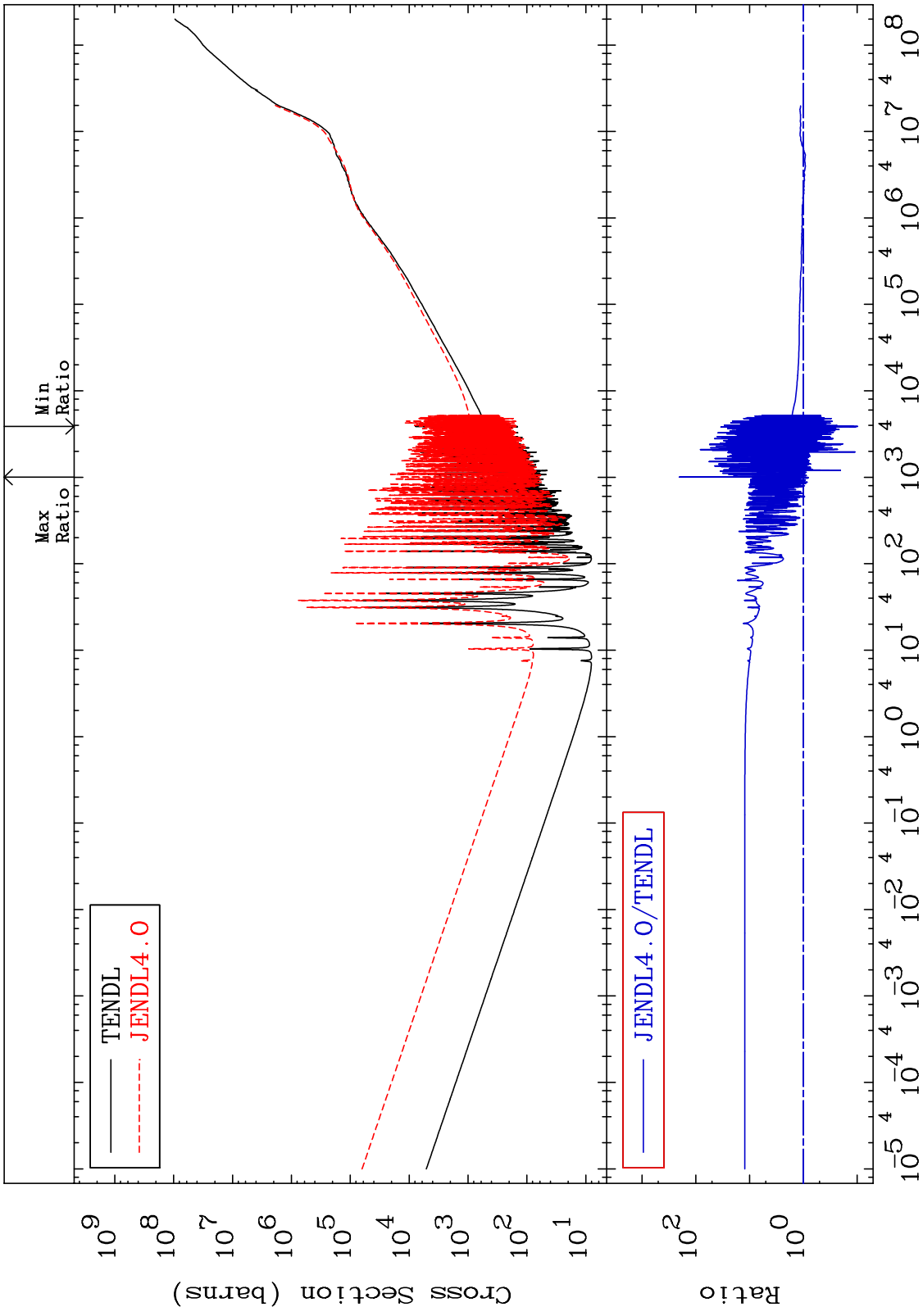




MAT 5325 Total photon (eV-barns) 53-I -127
Cross Section 9999. To 9999. %



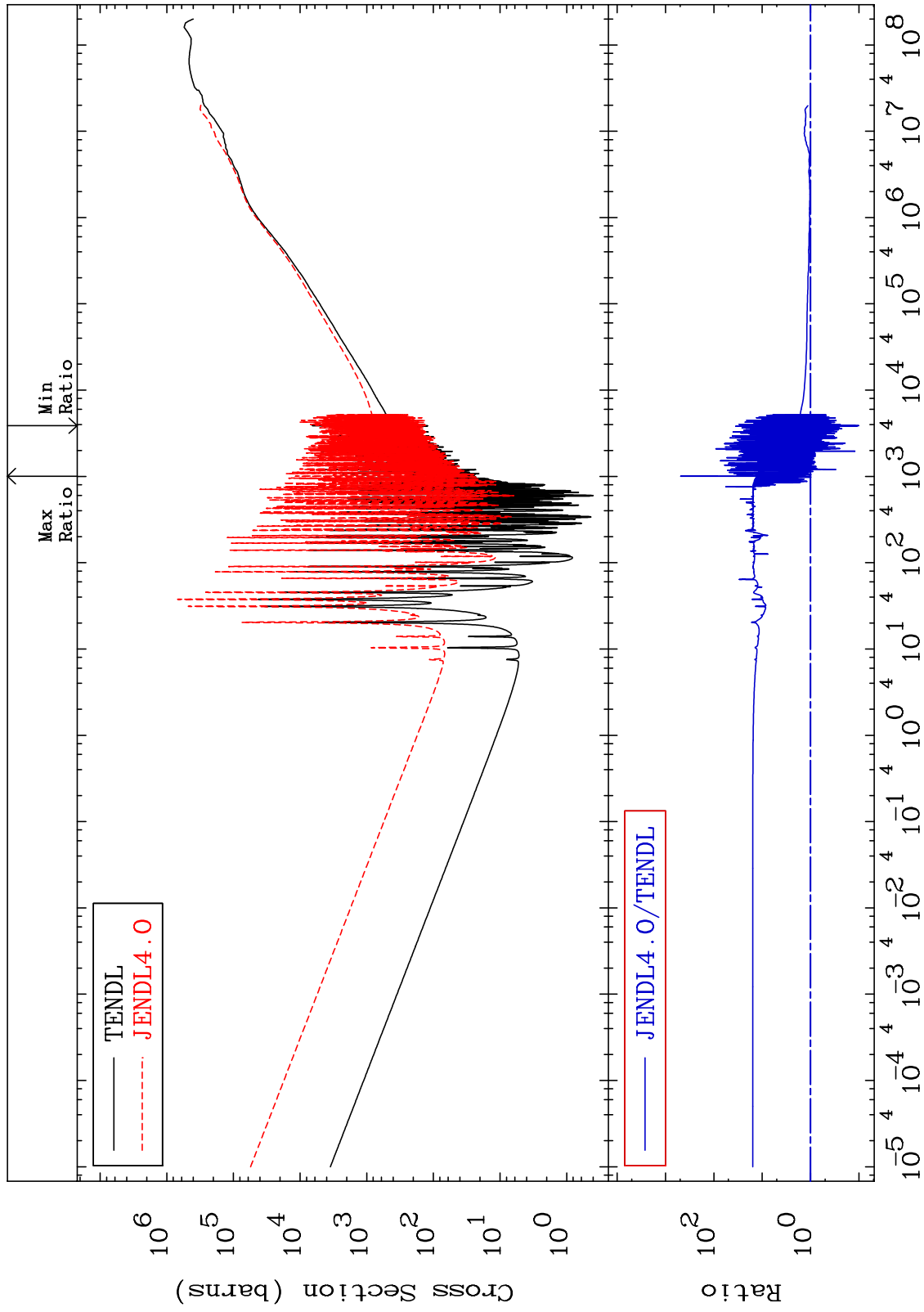
MAT 5325 Total kinematic kerma (high limit) 53-I -127
 Cross Section -90.27 To 9999. %



MAT 5325

Dpa total (eV-barns)
Cross Section

53-I -127
-90.04 To 9999. %

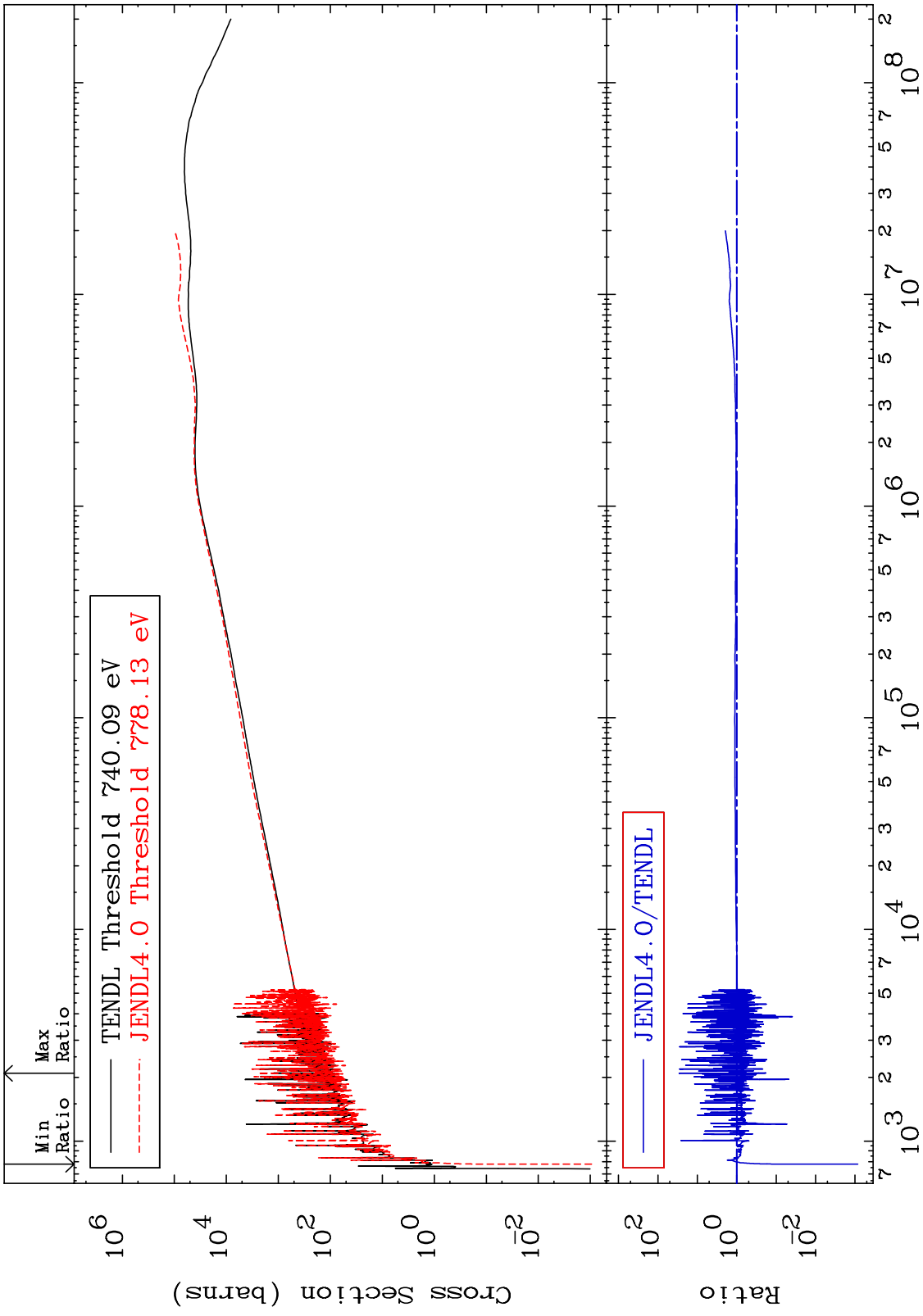


40

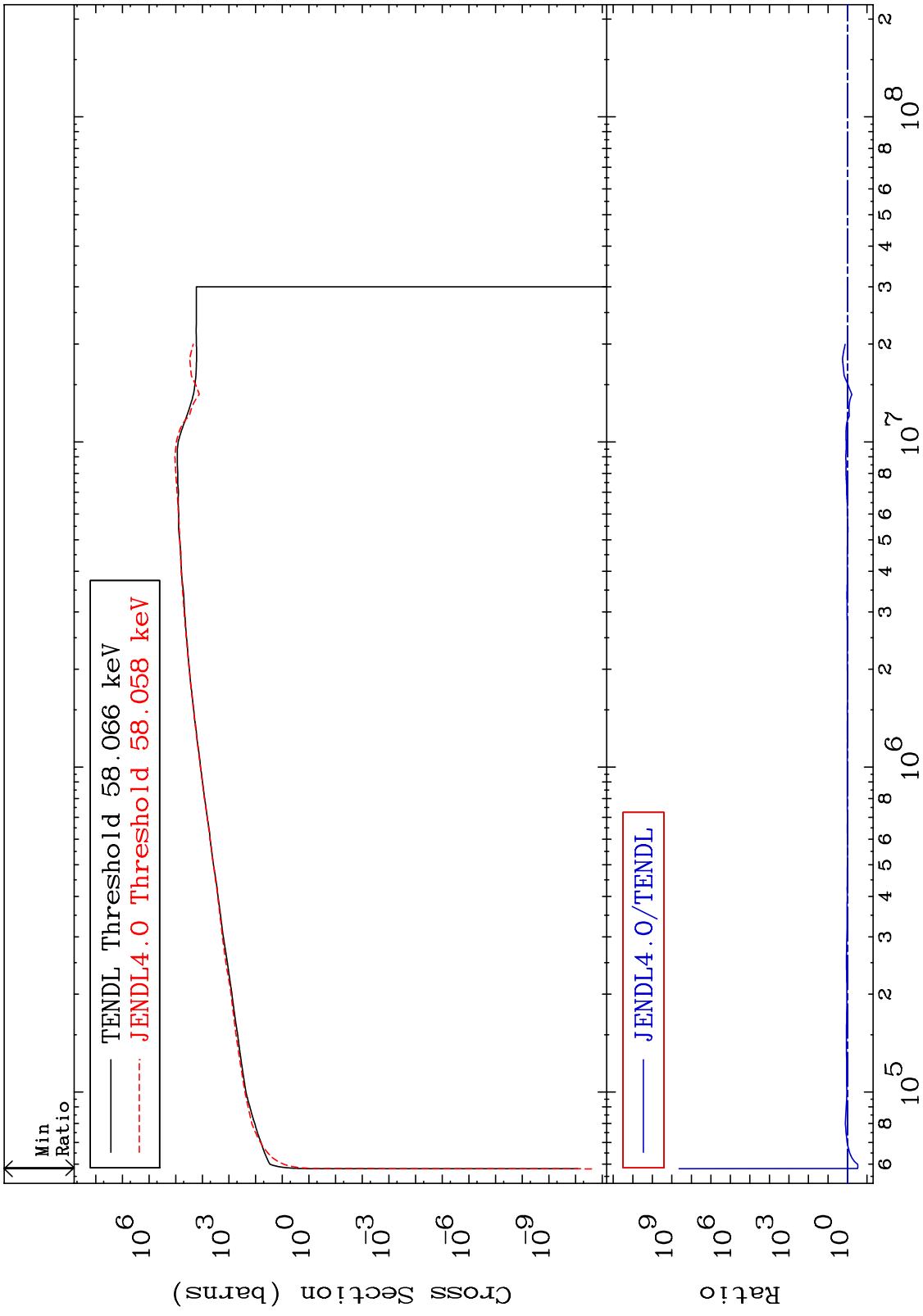
Incident Energy (eV)

53-I -127

MAT 5325 Dpa elastic (mt2) 53-I -127
 Cross Section -99.92 To 2811. %



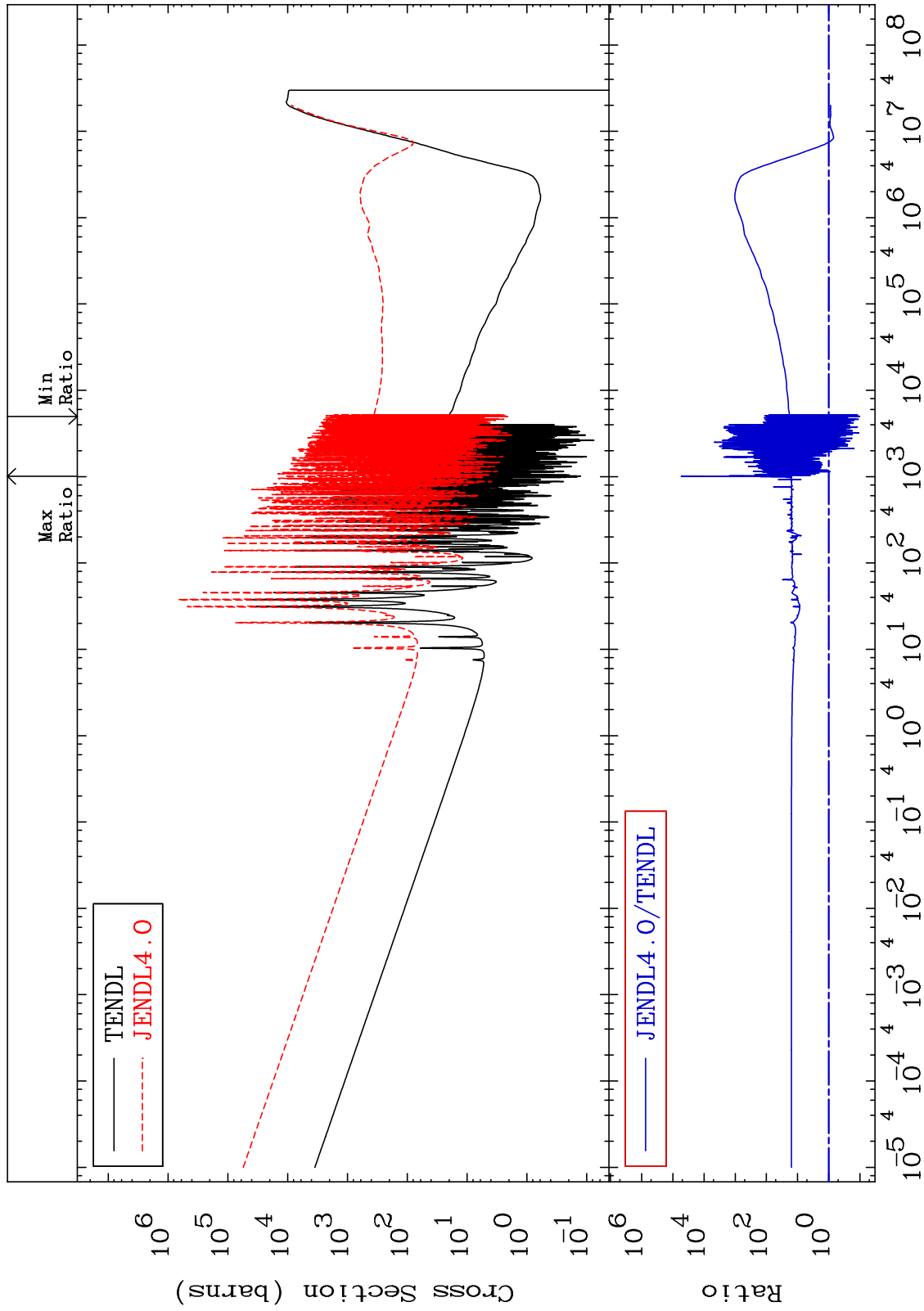
MAT 5325 Dpa inelastic (mt51-91) 53-I -127
 -70.52 To 9999. %
 Cross Section



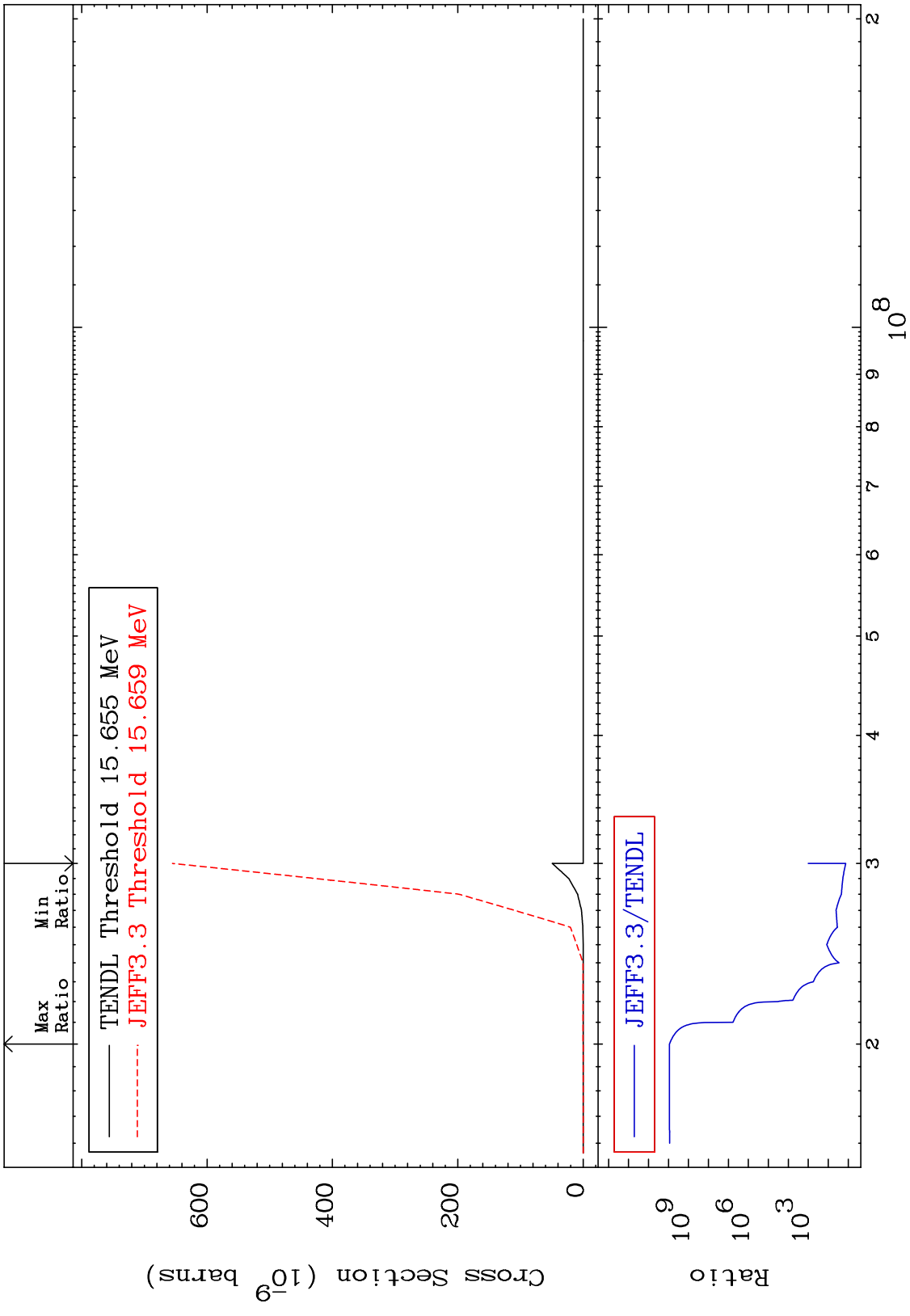
MAT 5325

Dpa disappearance (mt102 -120)
Cross Section

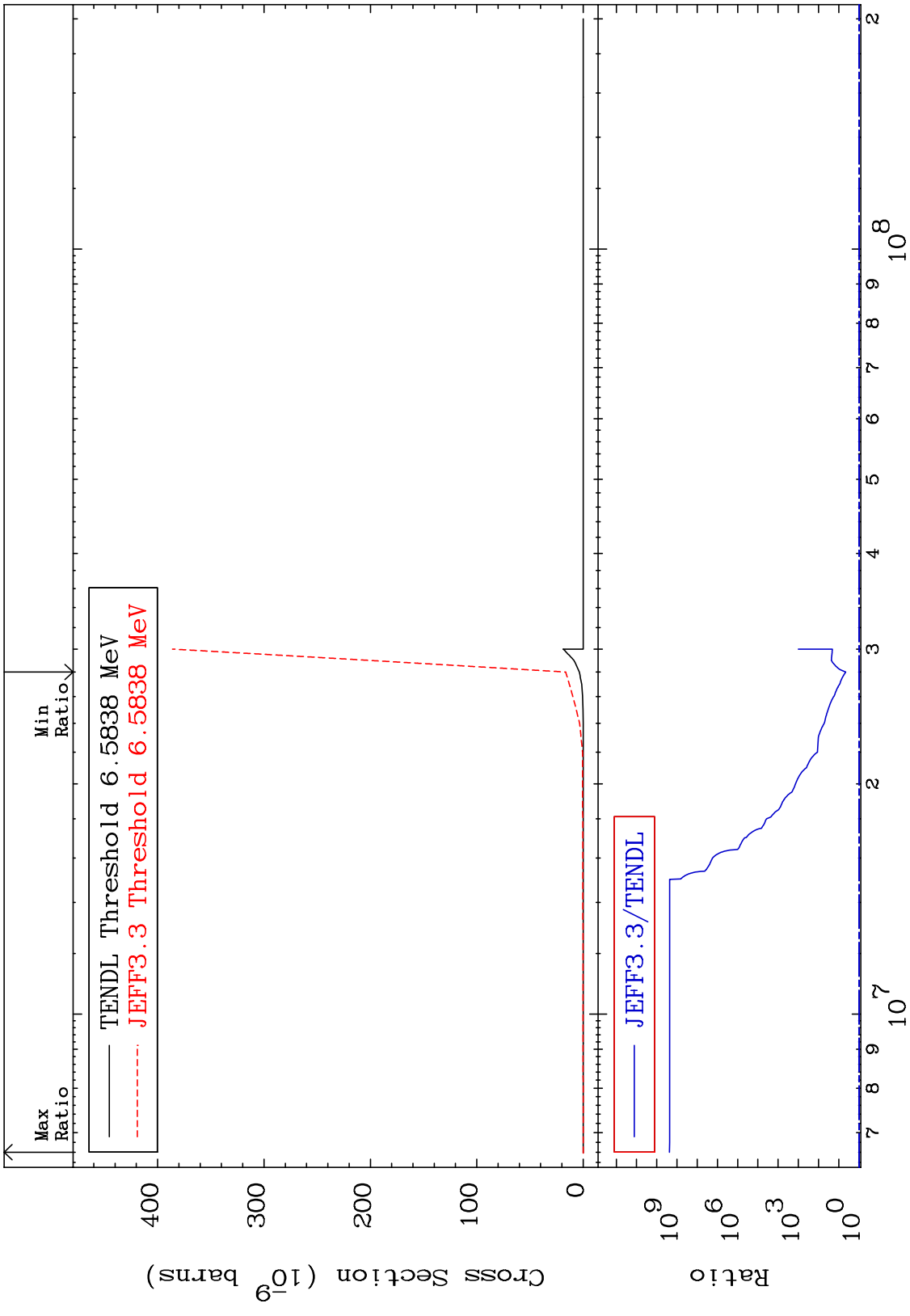
53-I -127
-89.86 To 9999. %



MAT 5325 (n,p) t 53-I -127
 Cross Section 1225. To 9999. %



MAT 5325 (n,d) α 53-I -127
 Cross Section 351.9 To 9999. %

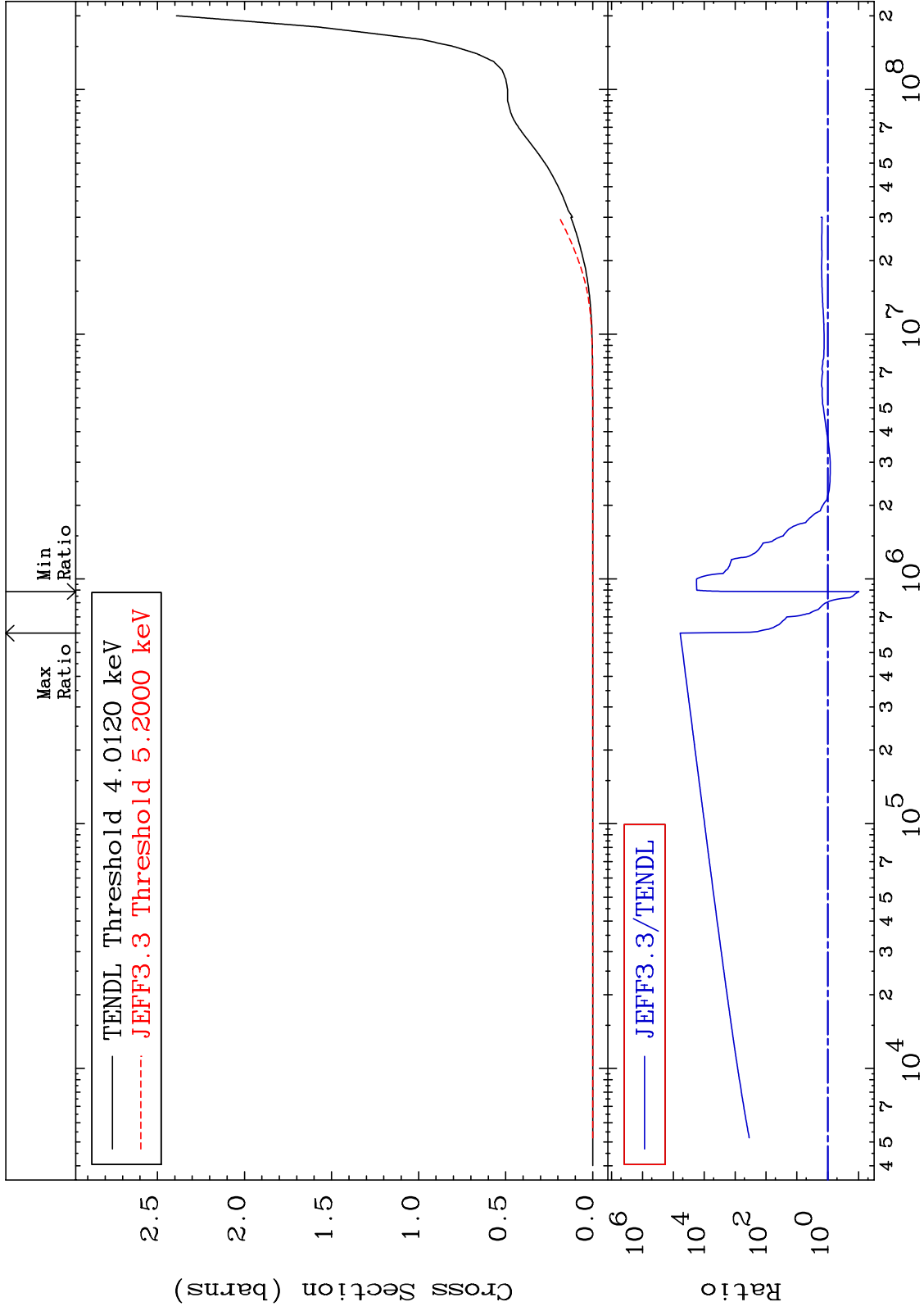


45 Incident Energy (eV) 53-I -127

MAT 5325

Hydrogen Production
Cross Section

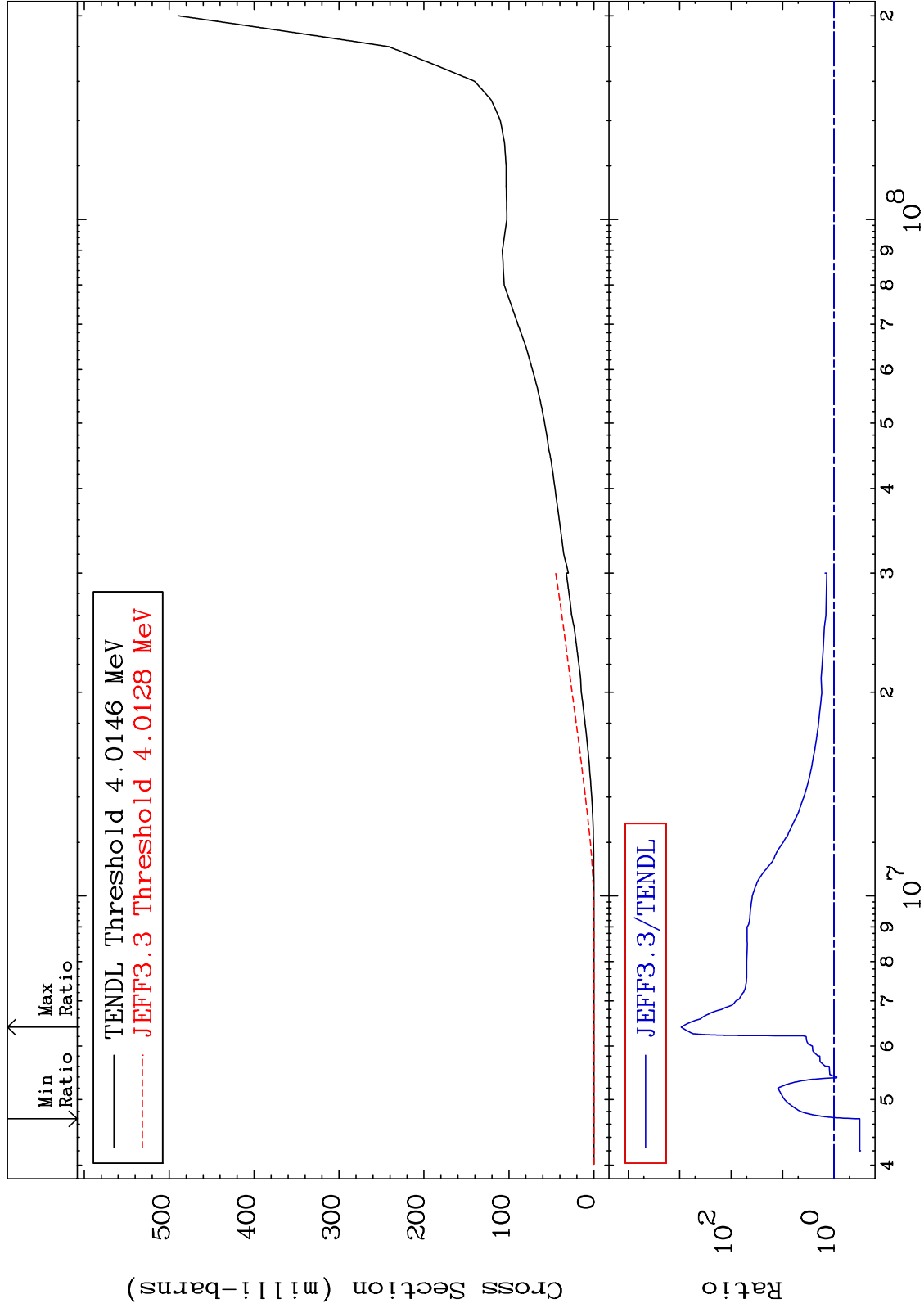
53-I -127
-90.19 To 9999. %



MAT 5325

Deuterium Production
Cross Section

53-I -127
-68.42 To 9999. %

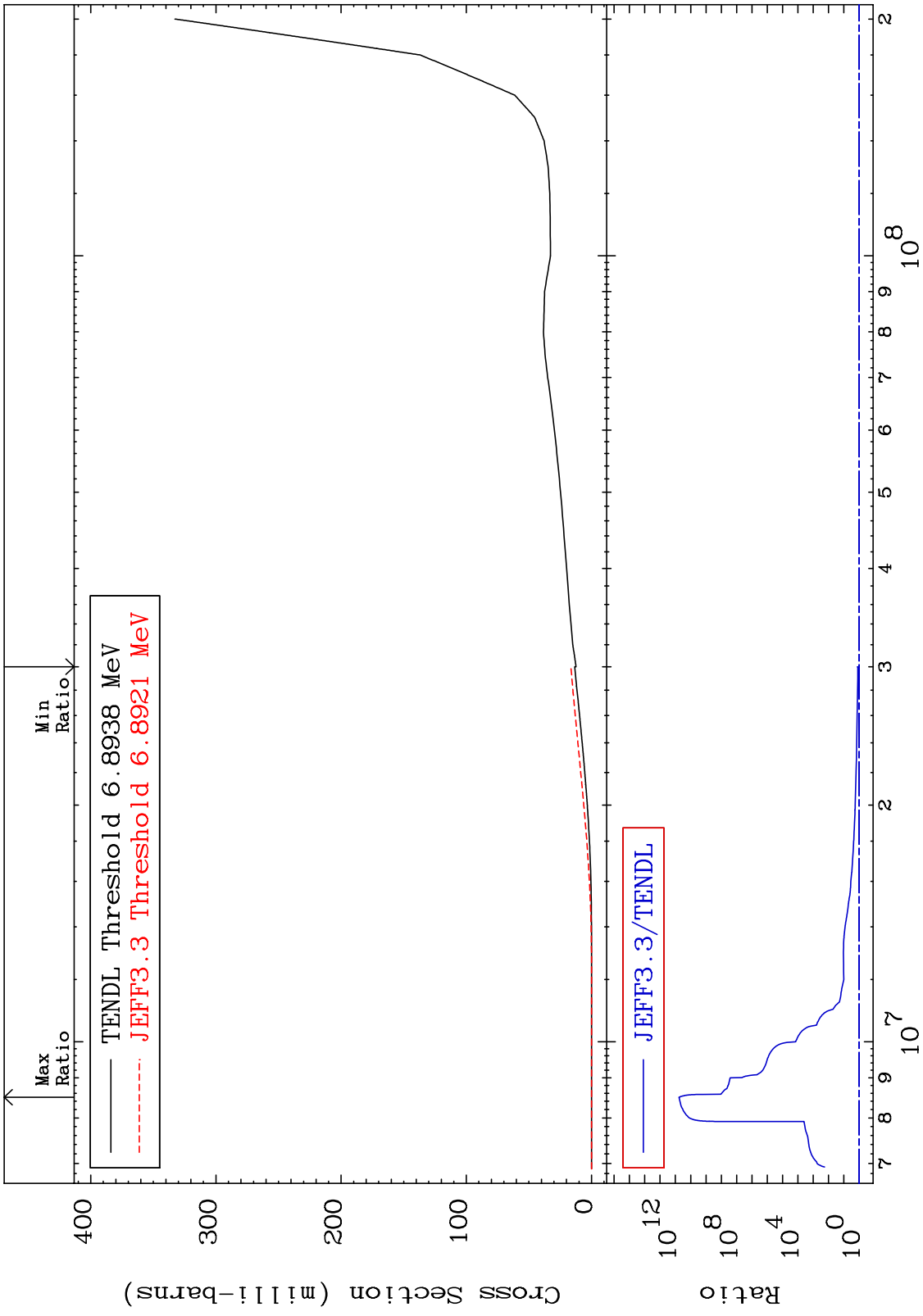


47

Incident Energy (eV)

53-I -127

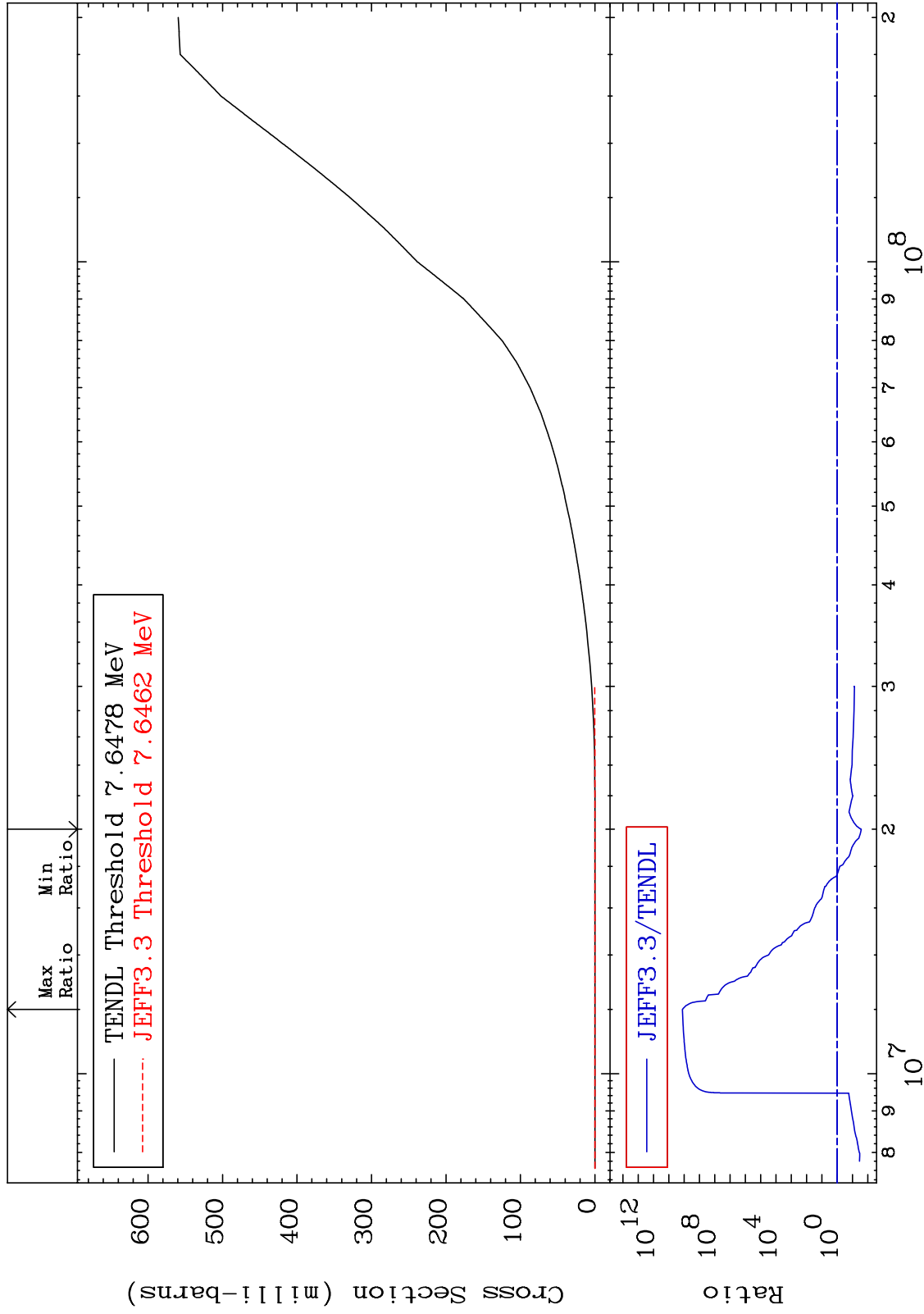
MAT 5325 Tritium Production Cross Section 53-I -127 To 9999. %
 22.75



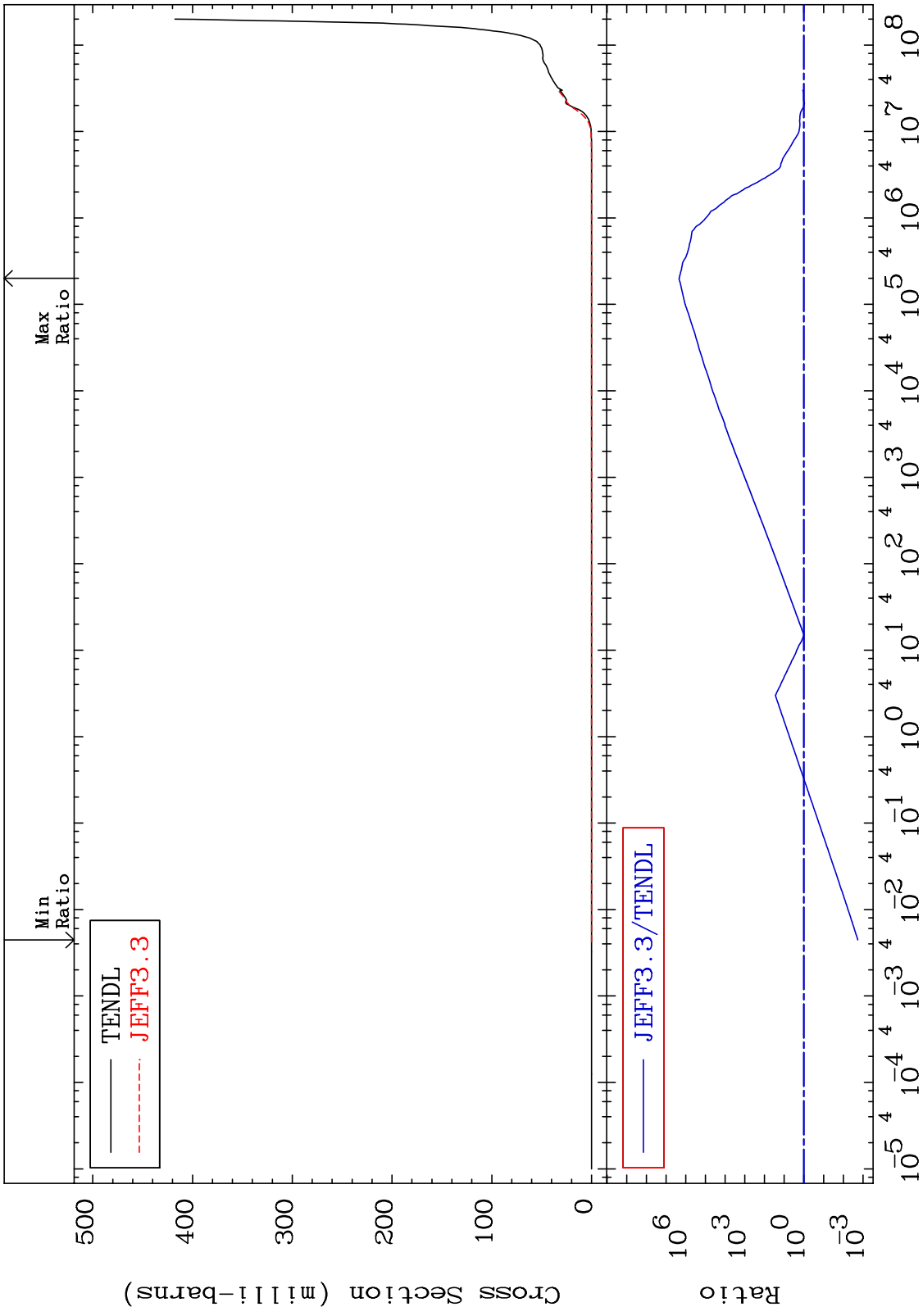
MAT 5325

He-3 Production
Cross Section

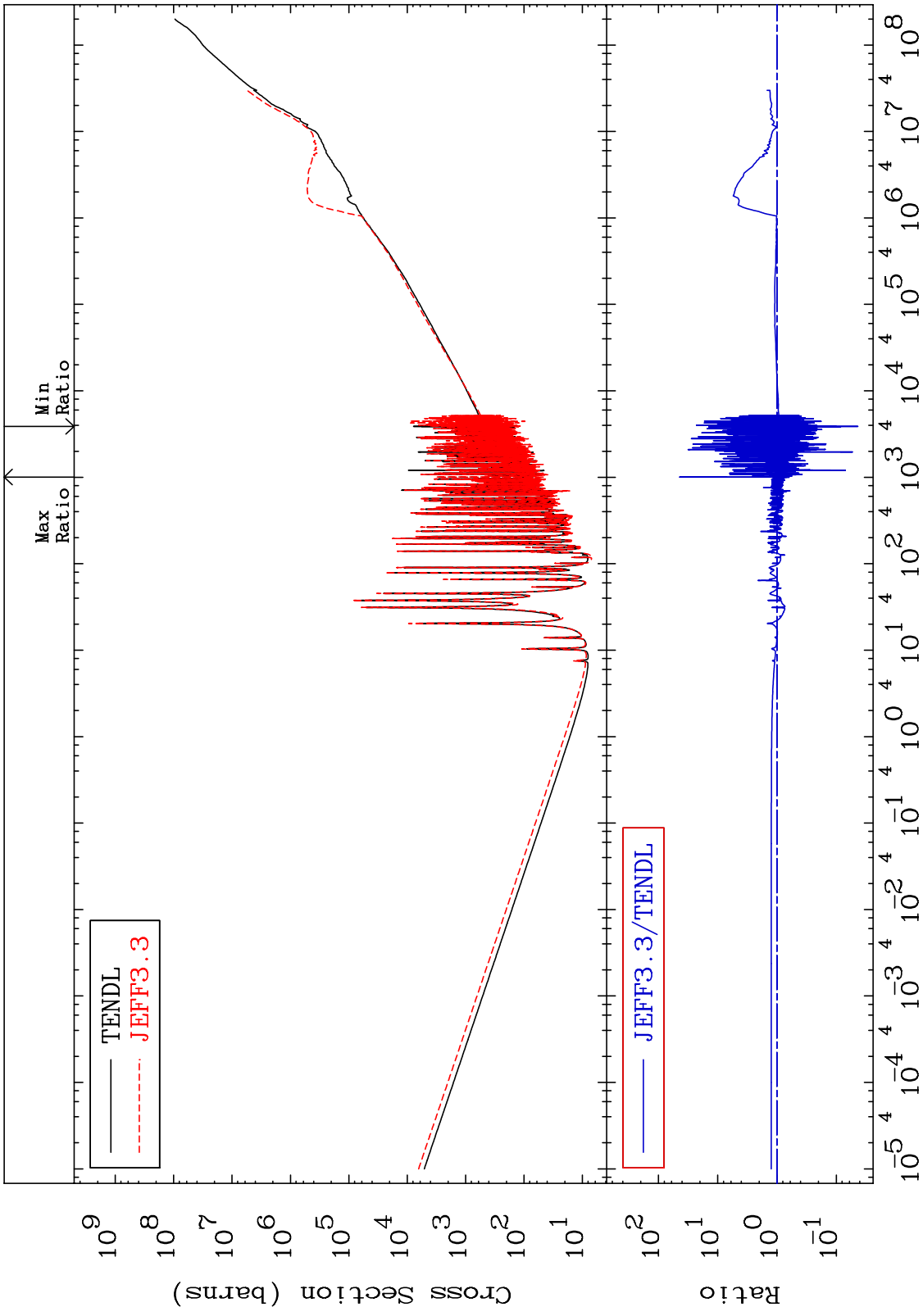
53-I -127
-97.33 To 9999. %



MAT 5325 He-4 Production Cross Section 53-I -127
 -99.82 To 9999. %



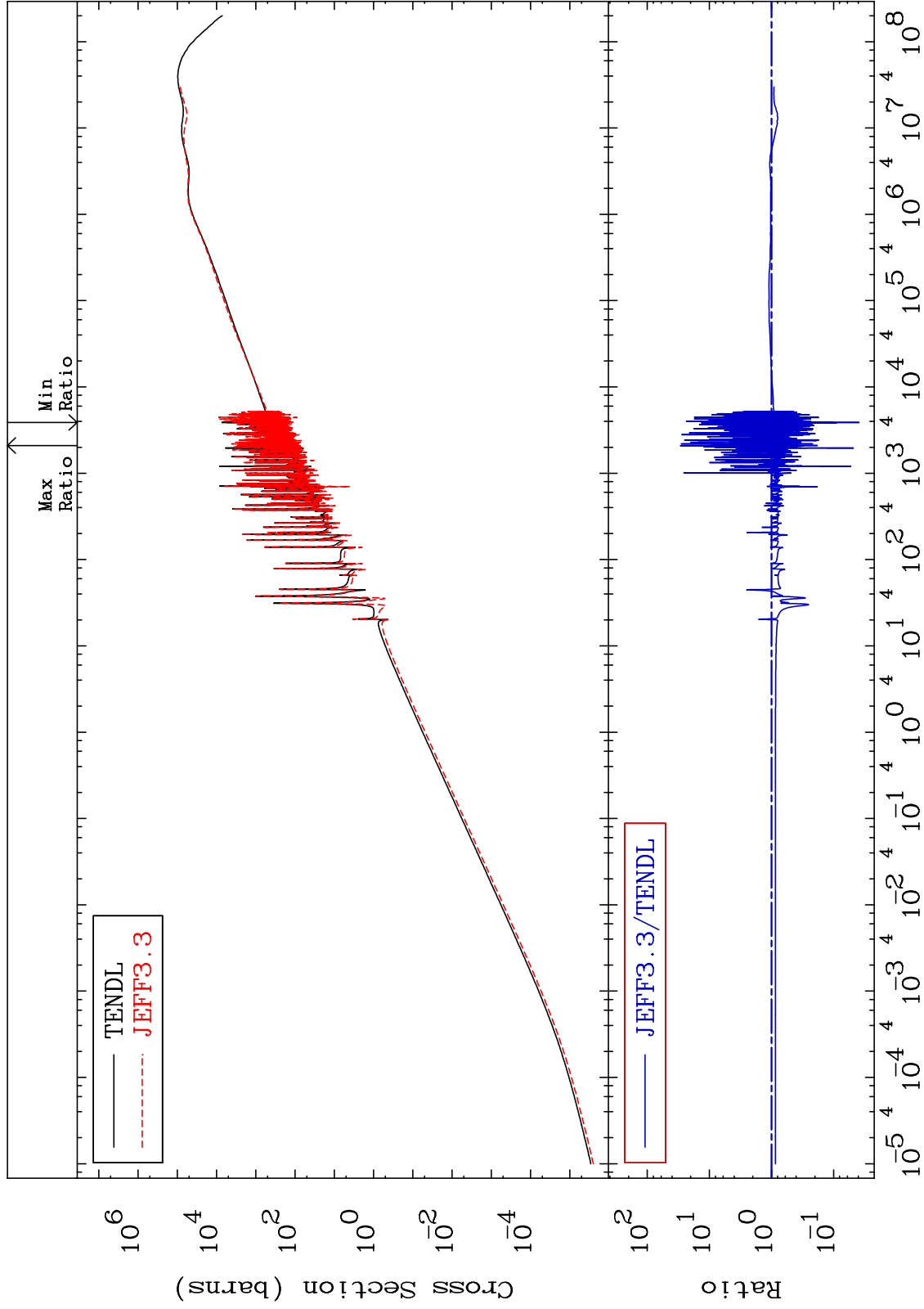
MAT 5325 Kerma total (eV-barns) 53-I -127
 Cross Section -95.67 To 4400. %



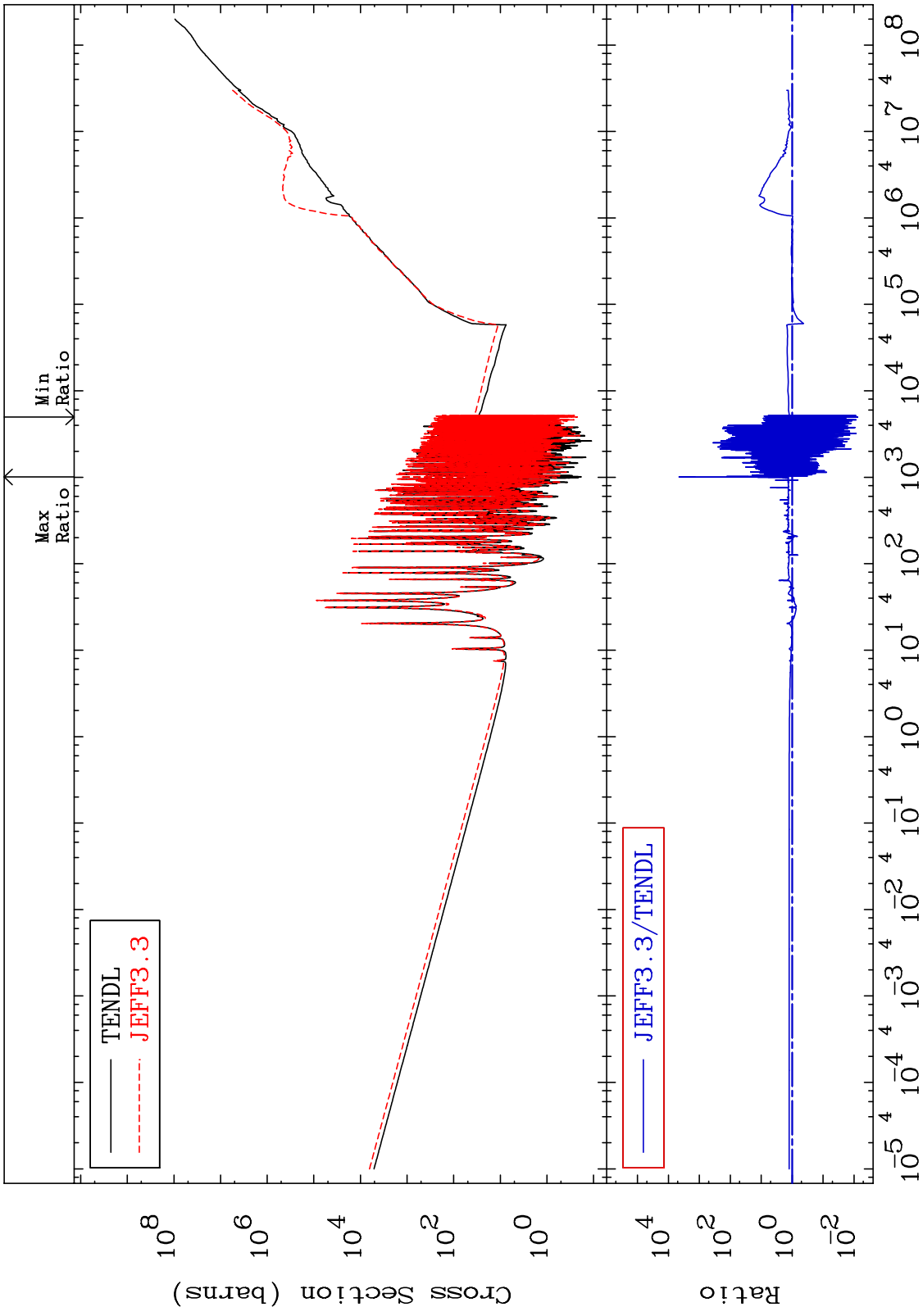
MAT 5325

Kerma elastic
Cross Section

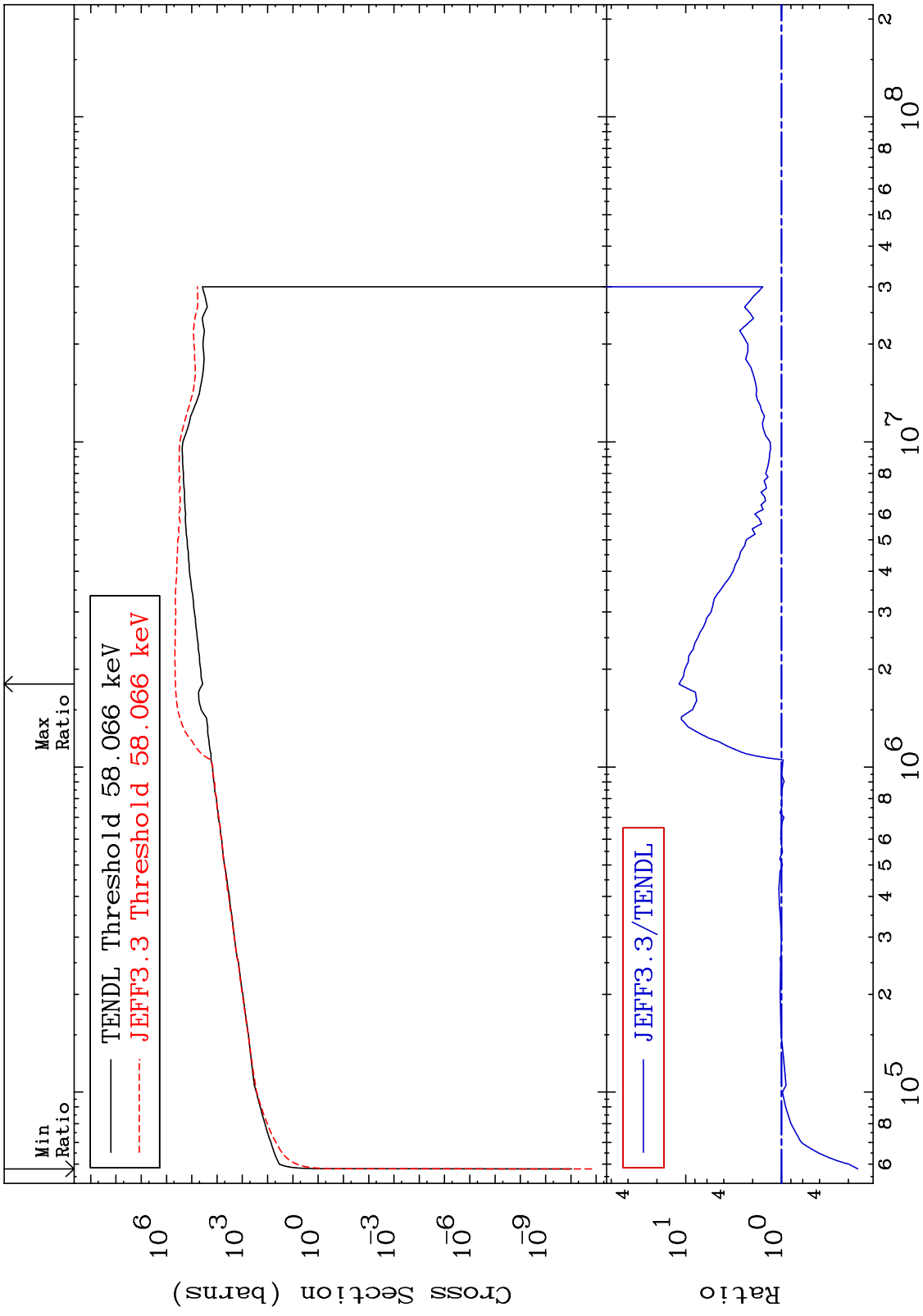
53-I -127
-96.10 To 2804. %



MAT 5325 Kerma non-elastic (all but mt2) 53-I -127
 Cross Section -99.25 To 9999. %



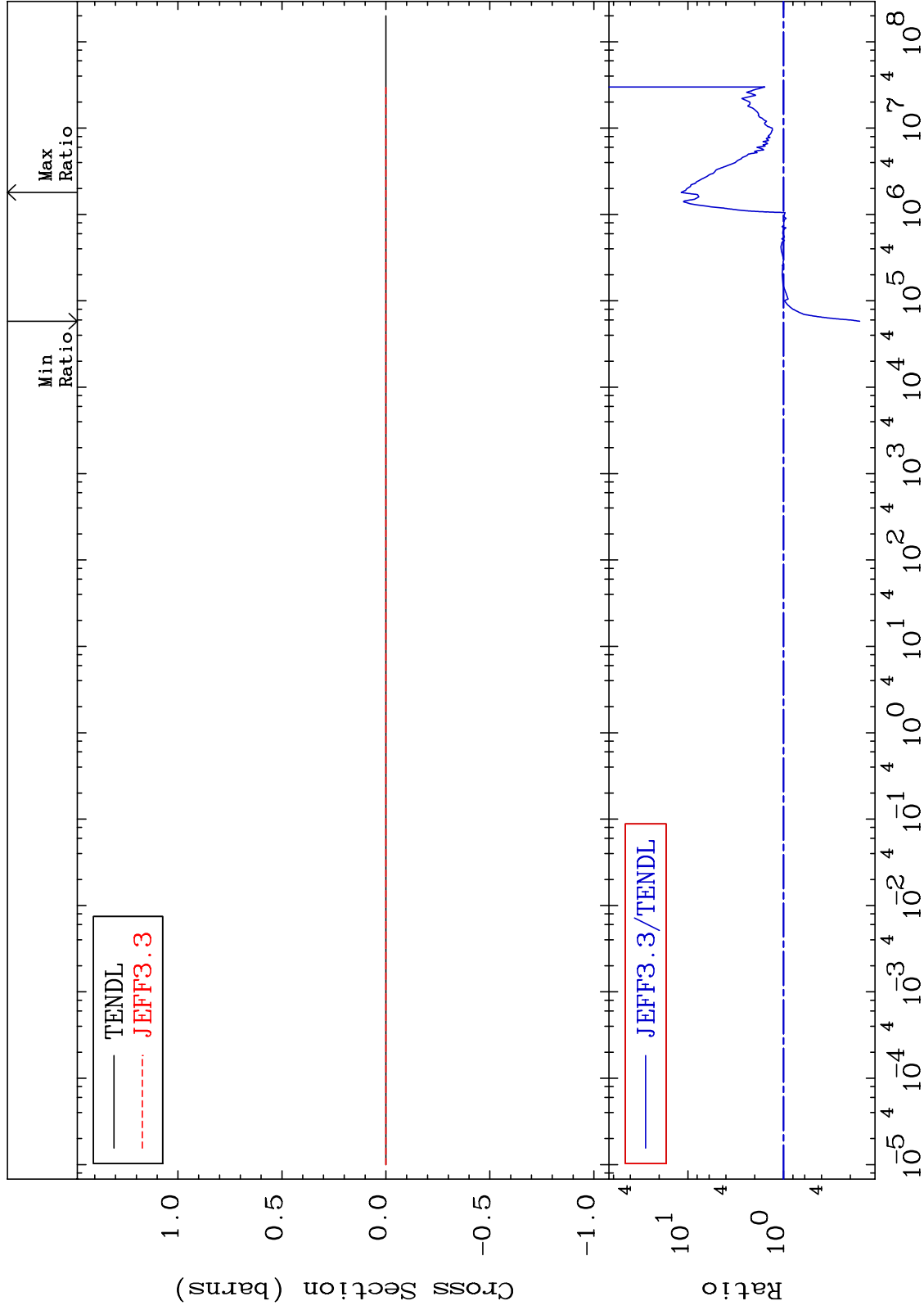
MAT 5325 Kerma inelastic (mt51-91) 53-I -127
 -84.03 To 1075. %
 Cross Section



MAT 5325

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

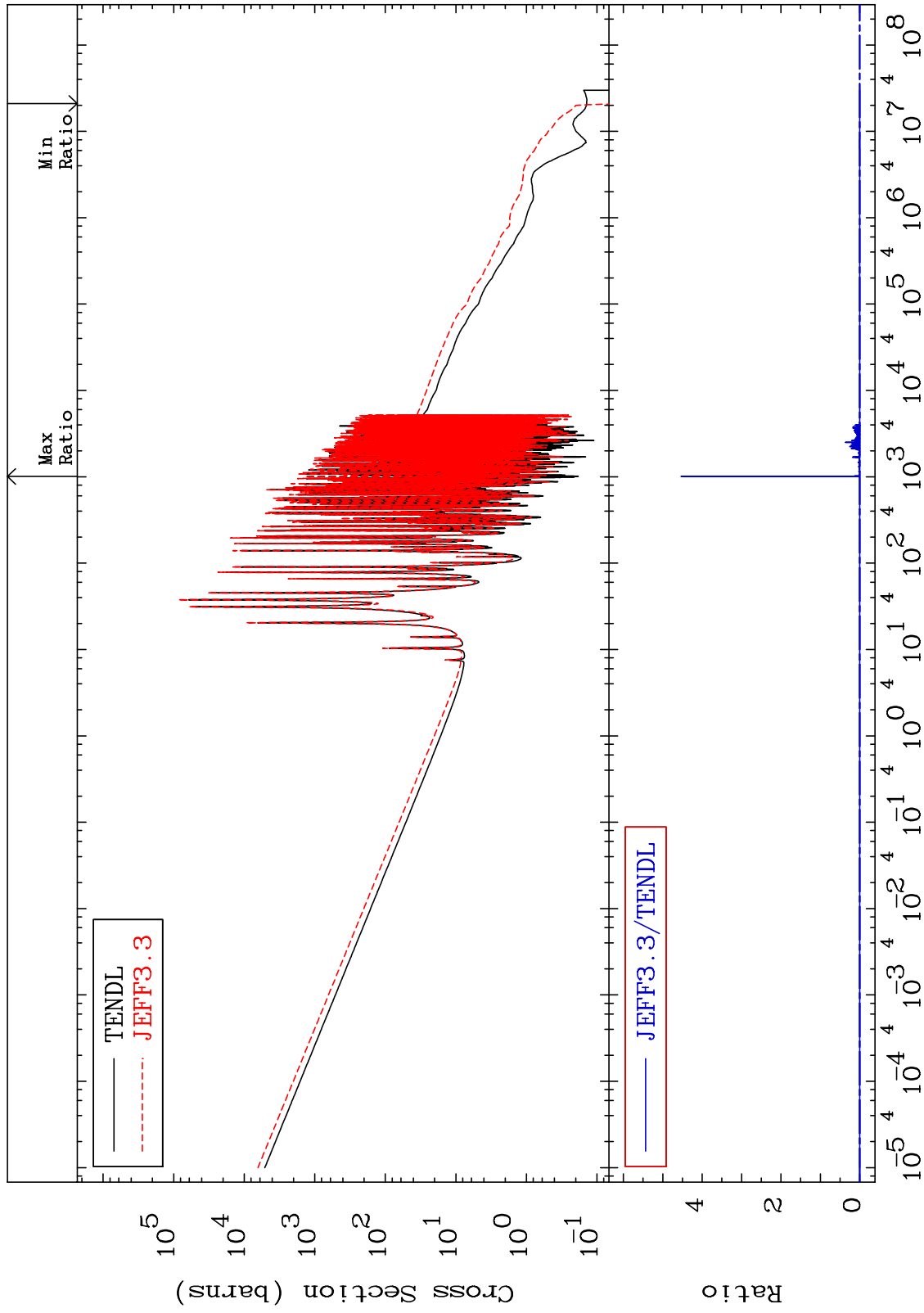
53-I -127
-84.03 To 1075. %



MAT 5325

Kerma capture (mt102)
Cross Section

53-I -127
-100.0 To 9999. %



56

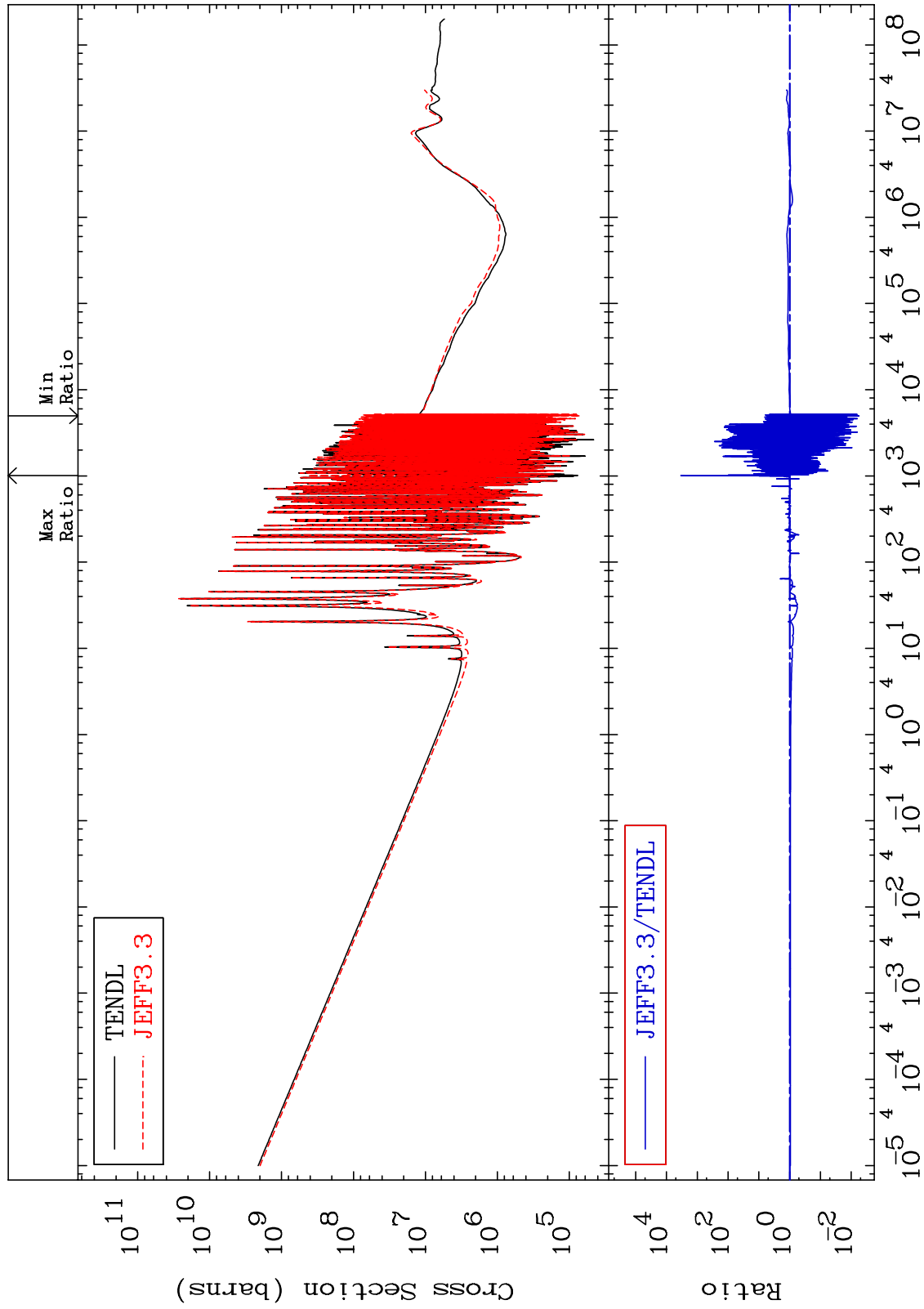
Incident Energy (eV)

53-I -127

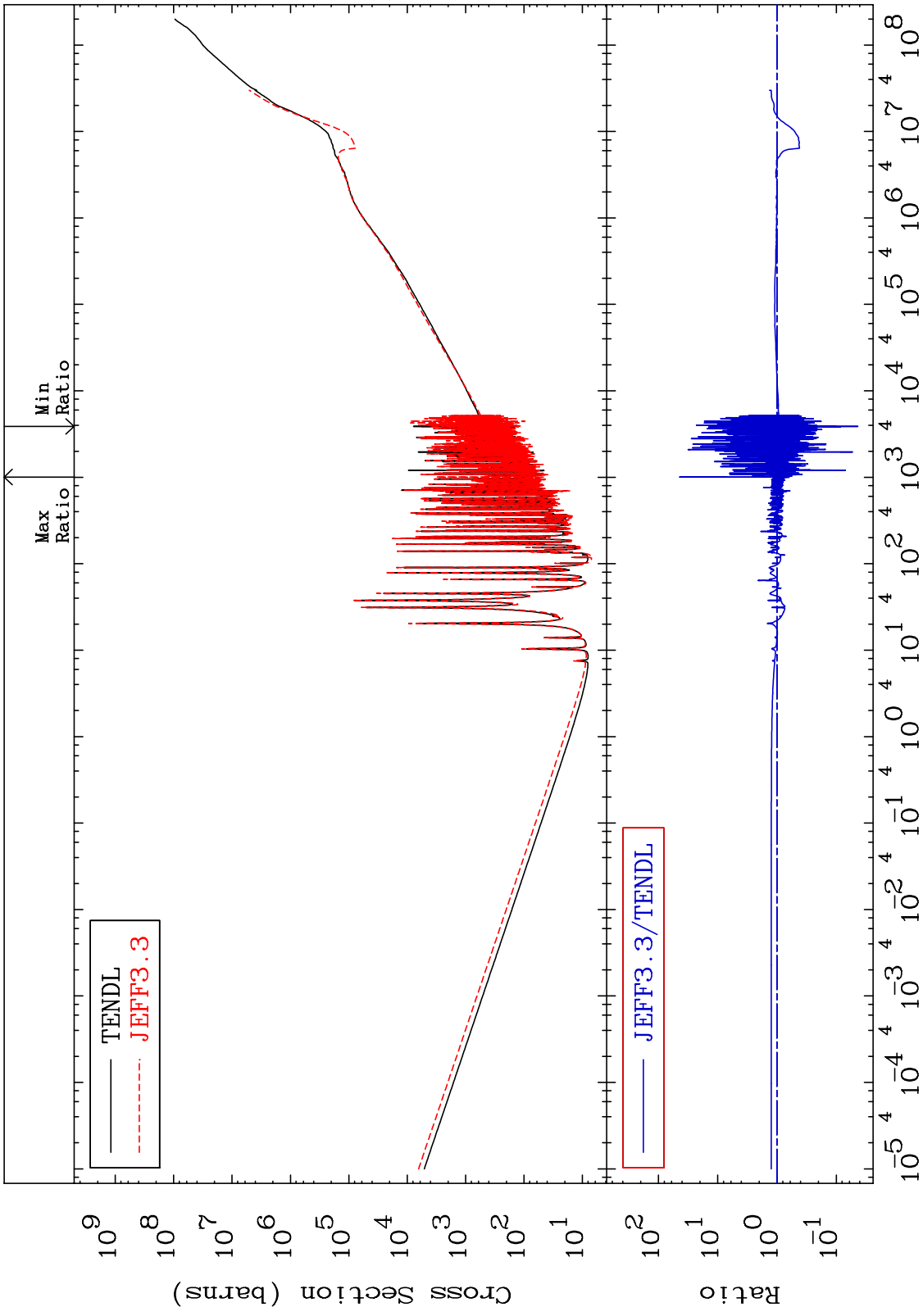
MAT 5325

Total photon (eV-barns)
Cross Section

53-I -127
-99.44 To 9999. %



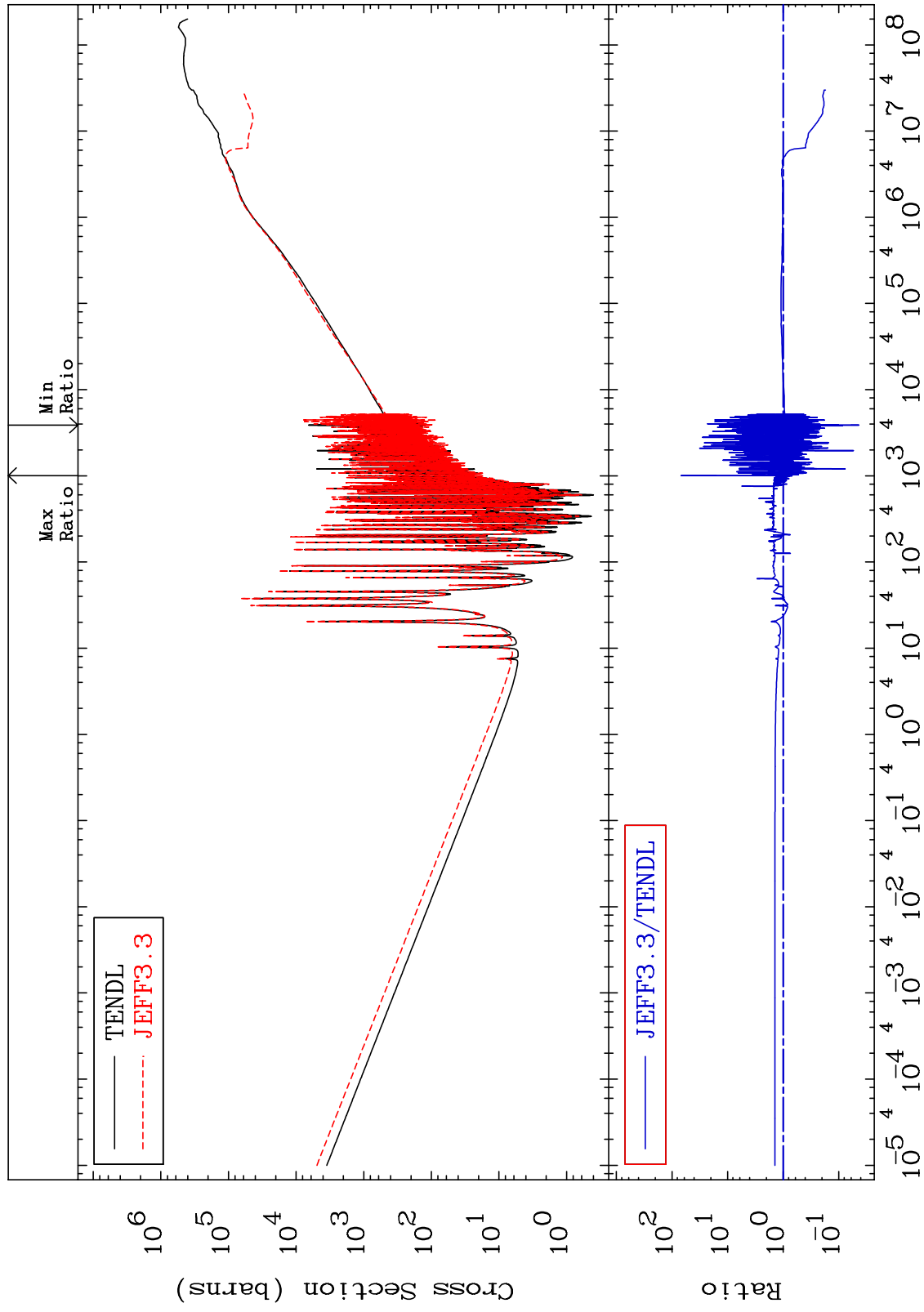
MAT 5325 Total kinematic kerma (high limit) 53-I -127
 Cross Section -95.67 To 4400. %



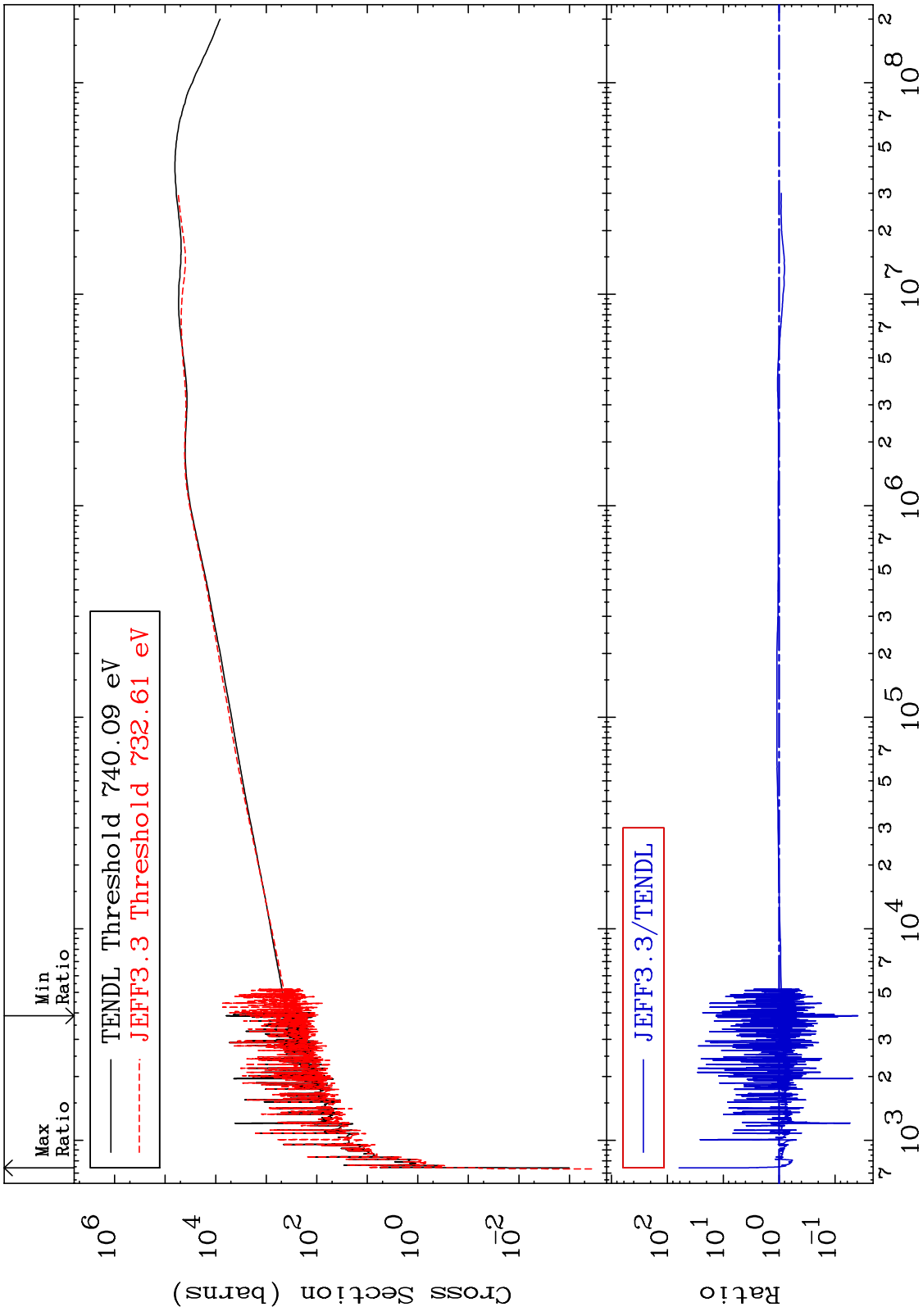
MAT 5325

Dpa total (eV-barns)
Cross Section

53-I -127
-95.69 To 6824. %



MAT 5325 Dpa elastic (mt2) 53-I -127
Cross Section -96.10 To 6081. %

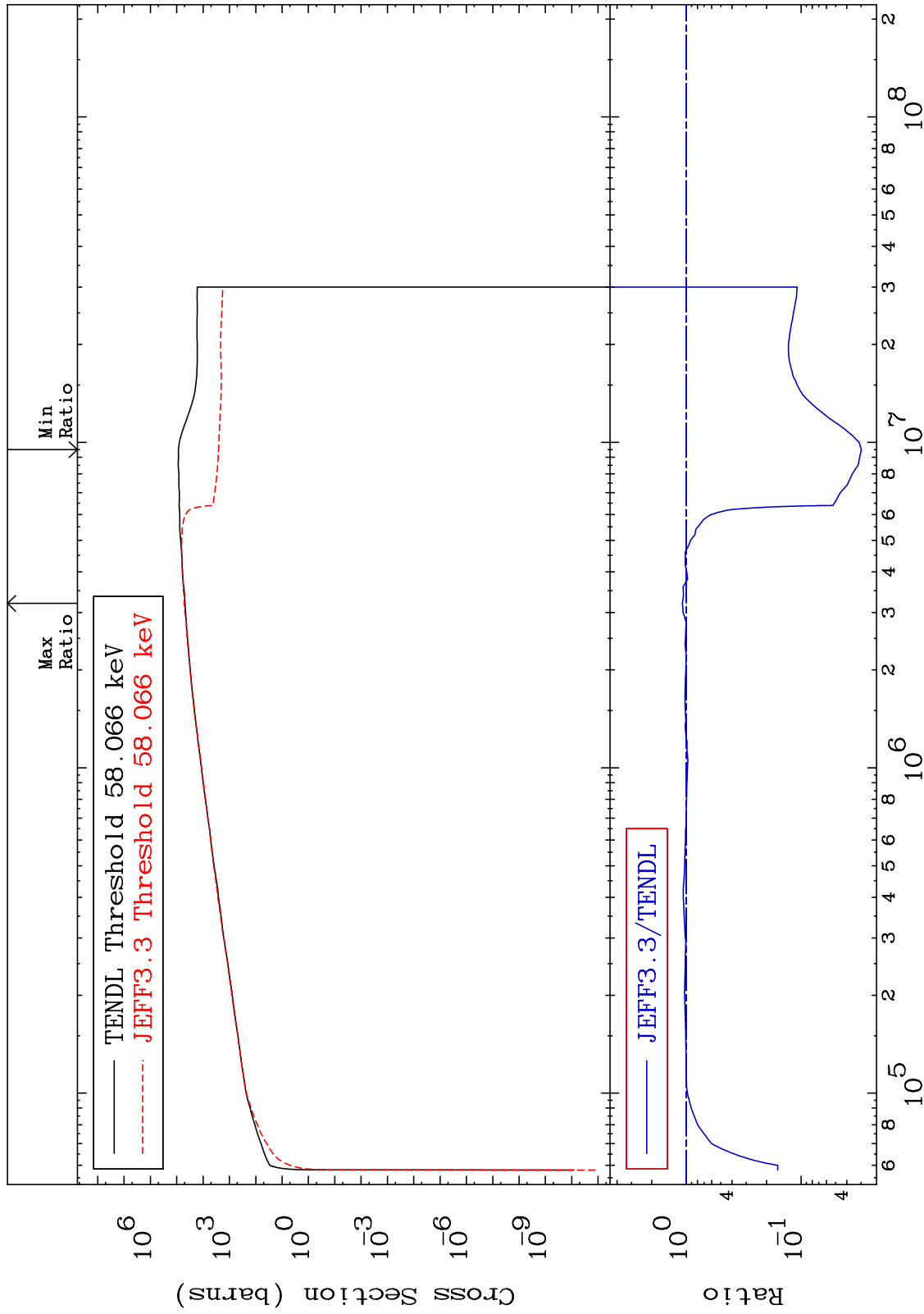


60 53-I -127

MAT 5325

Dpa inelastic (mt51-91)
Cross Section

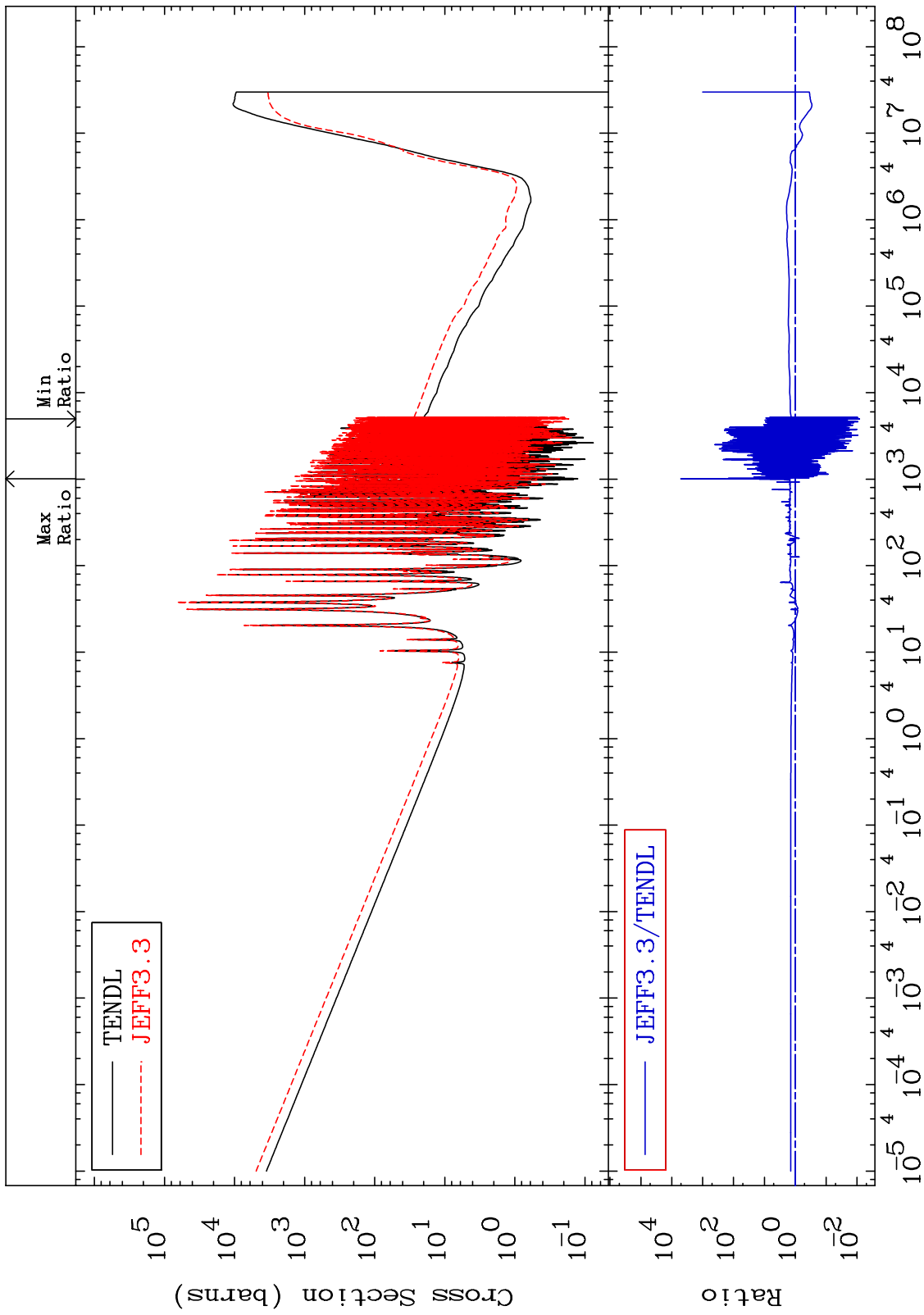
53-I -127
-97.01 To 7.903 %



MAT 5325

Dpa disappearance (mt102 -120)
Cross Section

53-I -127
-99.17 To 9999. %

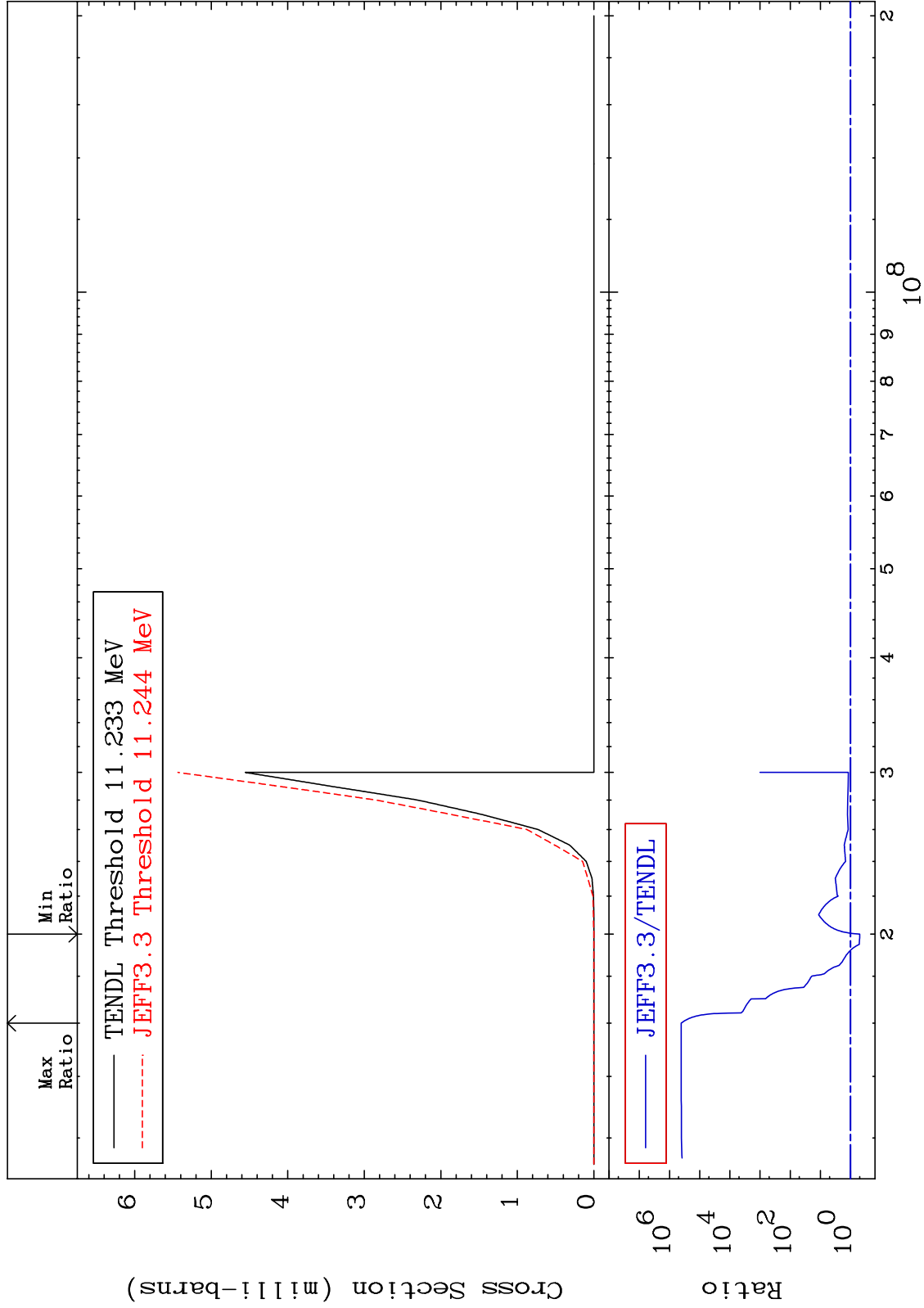


MAT 5325

(n,2n) α :51-Sb-122g

53-I -127

Radionuclide Production Cross Section -50.33 To 9999. %

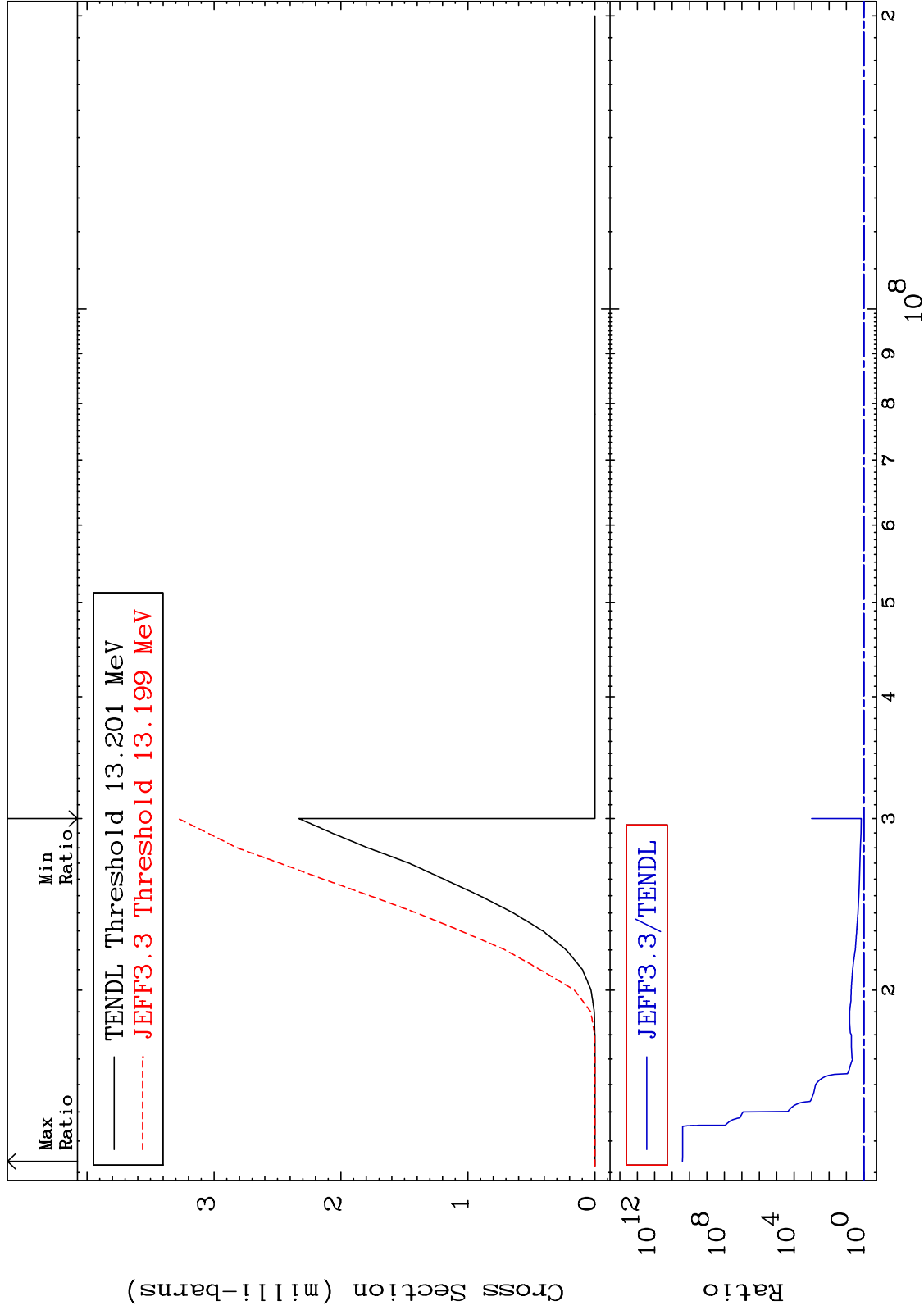


MAT 5325

(n, n') d:52-Te-125g

53-I -127

Radionuclide Production Cross Section 40.77 To 9999. %

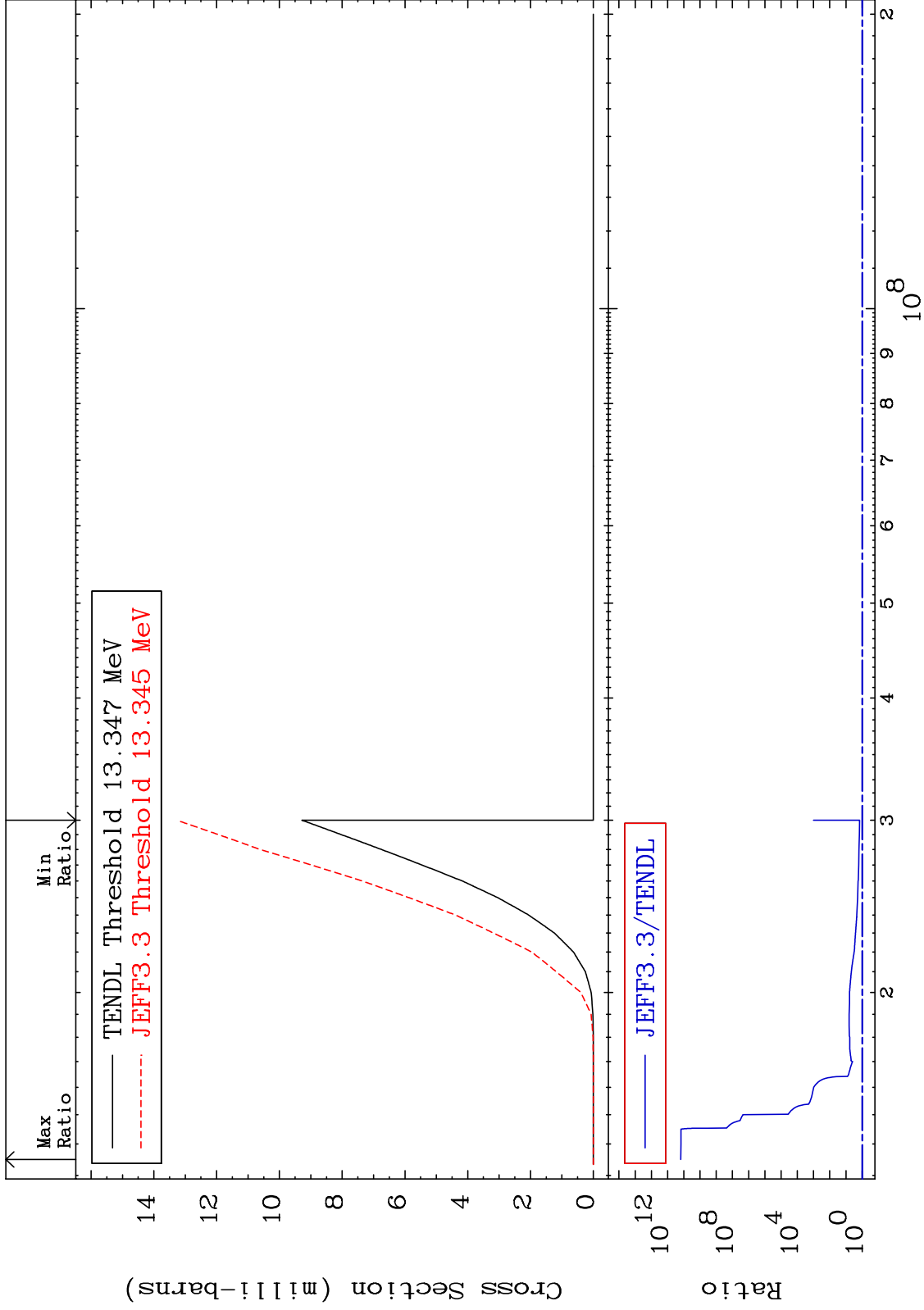


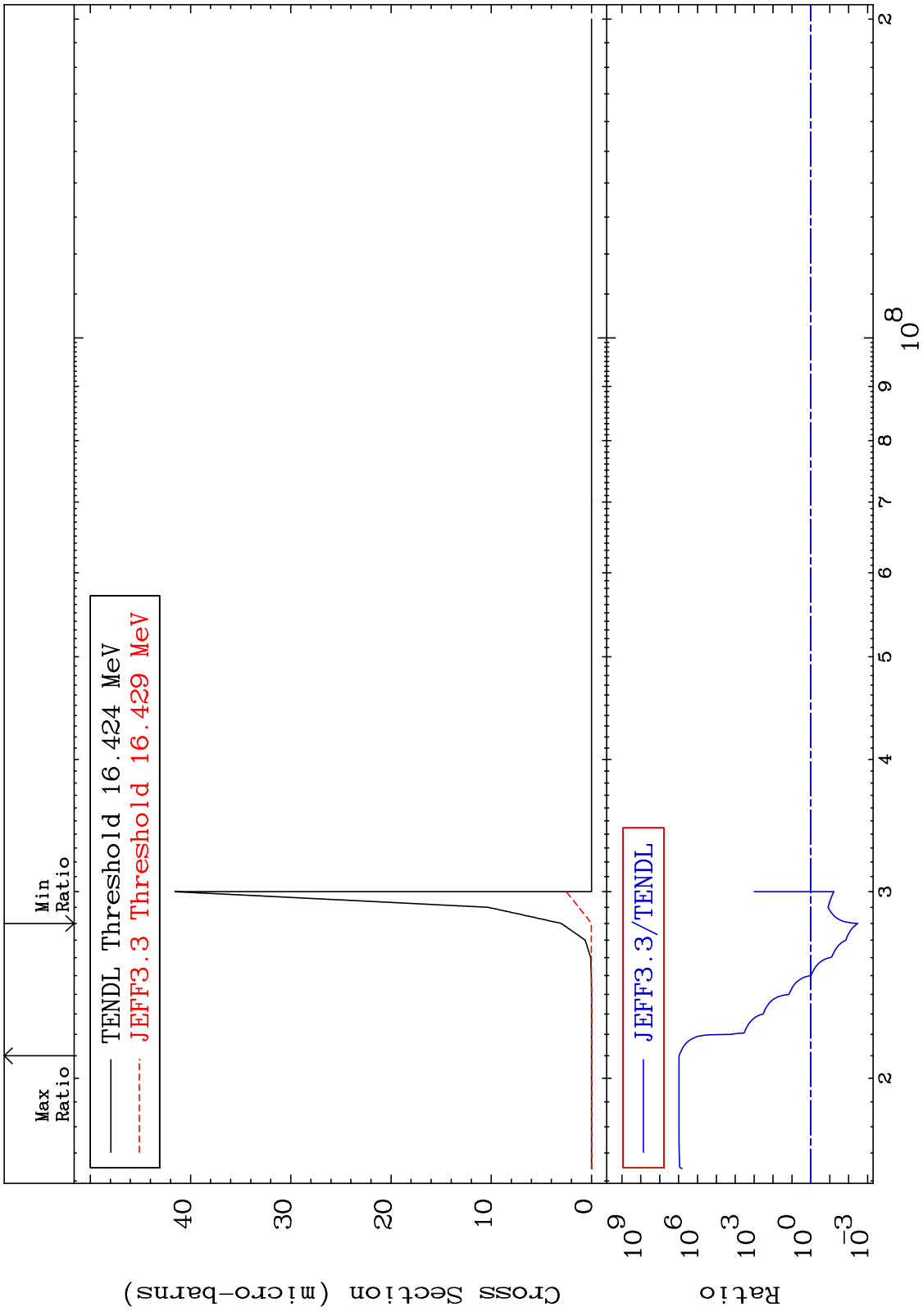
MAT 5325

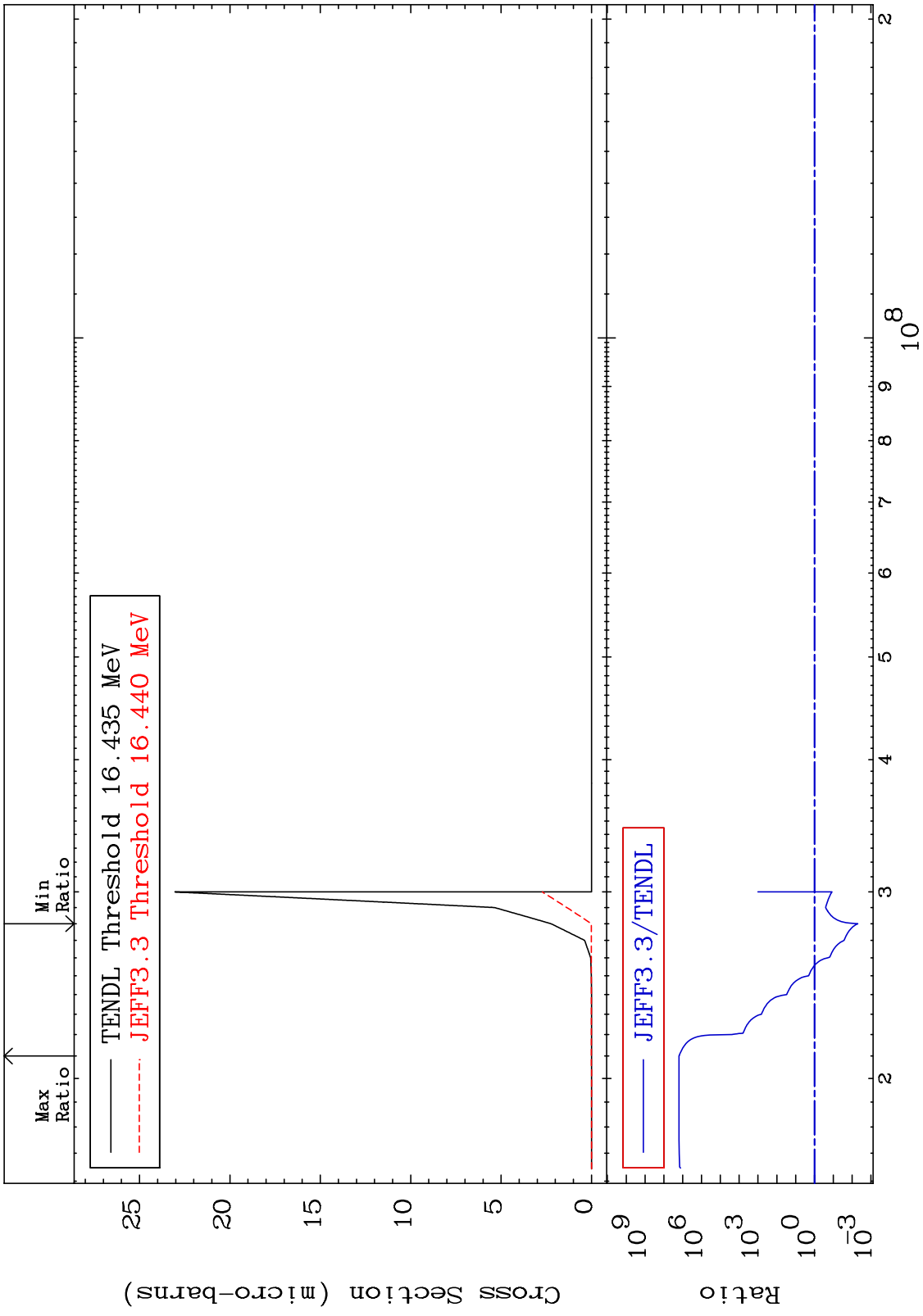
(n,n') d:52-Te-125m2

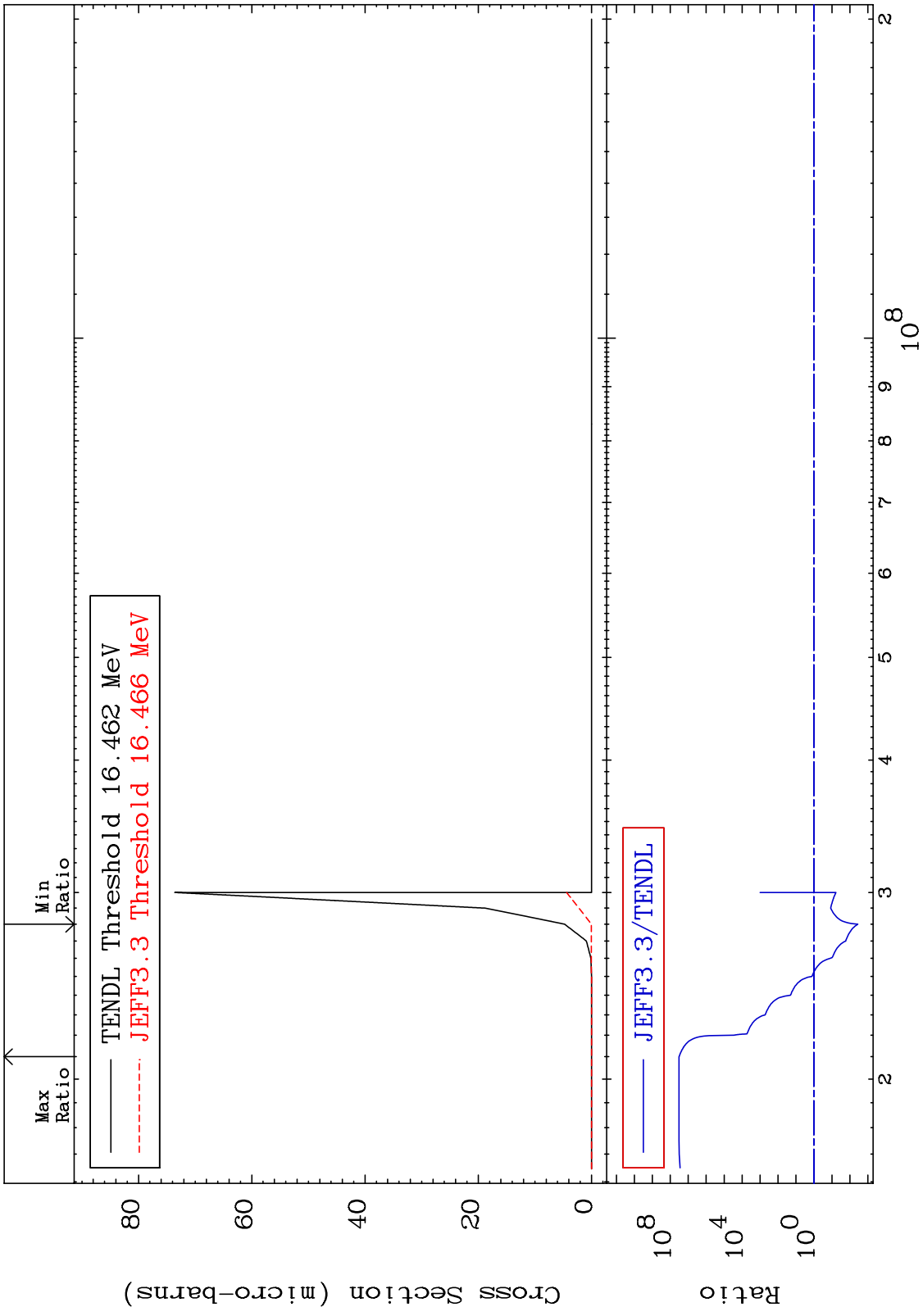
53-I -127

Radionuclide Production Cross Section 42.96 To 9999. %







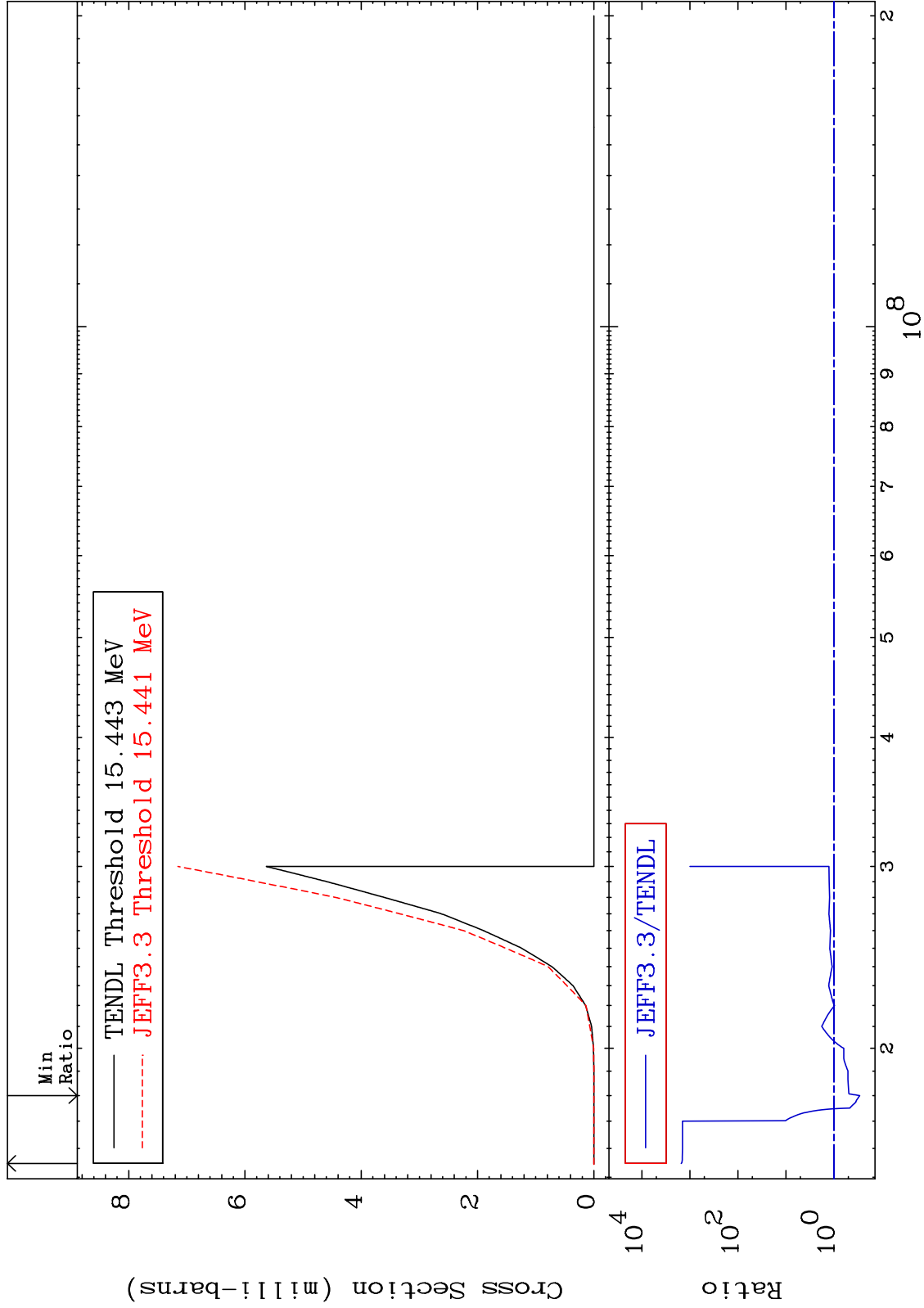


MAT 5325

(n,2n) p:52-Te-125g

53-I -127

Radionuclide Production Cross Section -71.00 To 9999. %

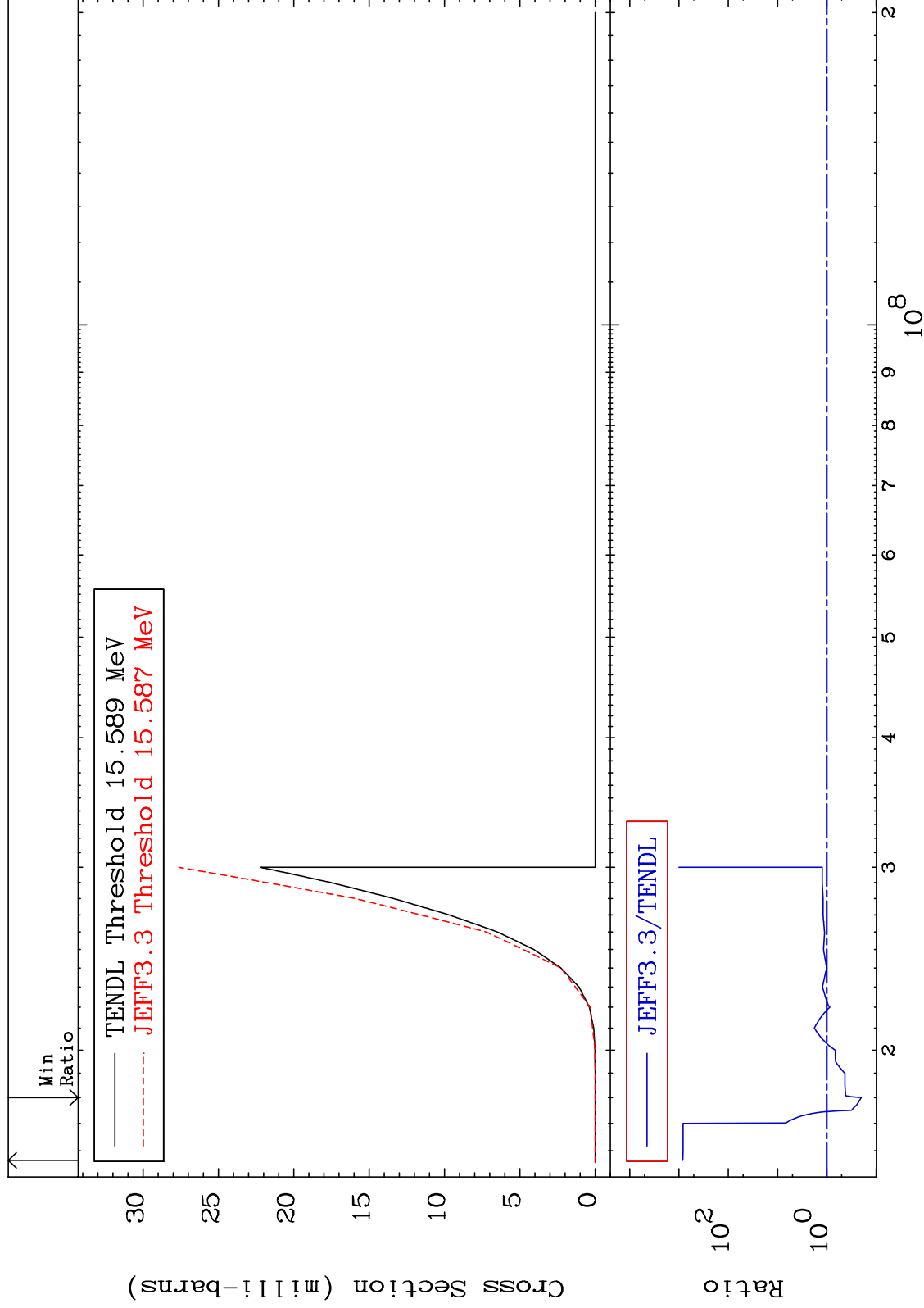


MAT 5325

(n,2n) p:52-Te-125m2

53-I -127

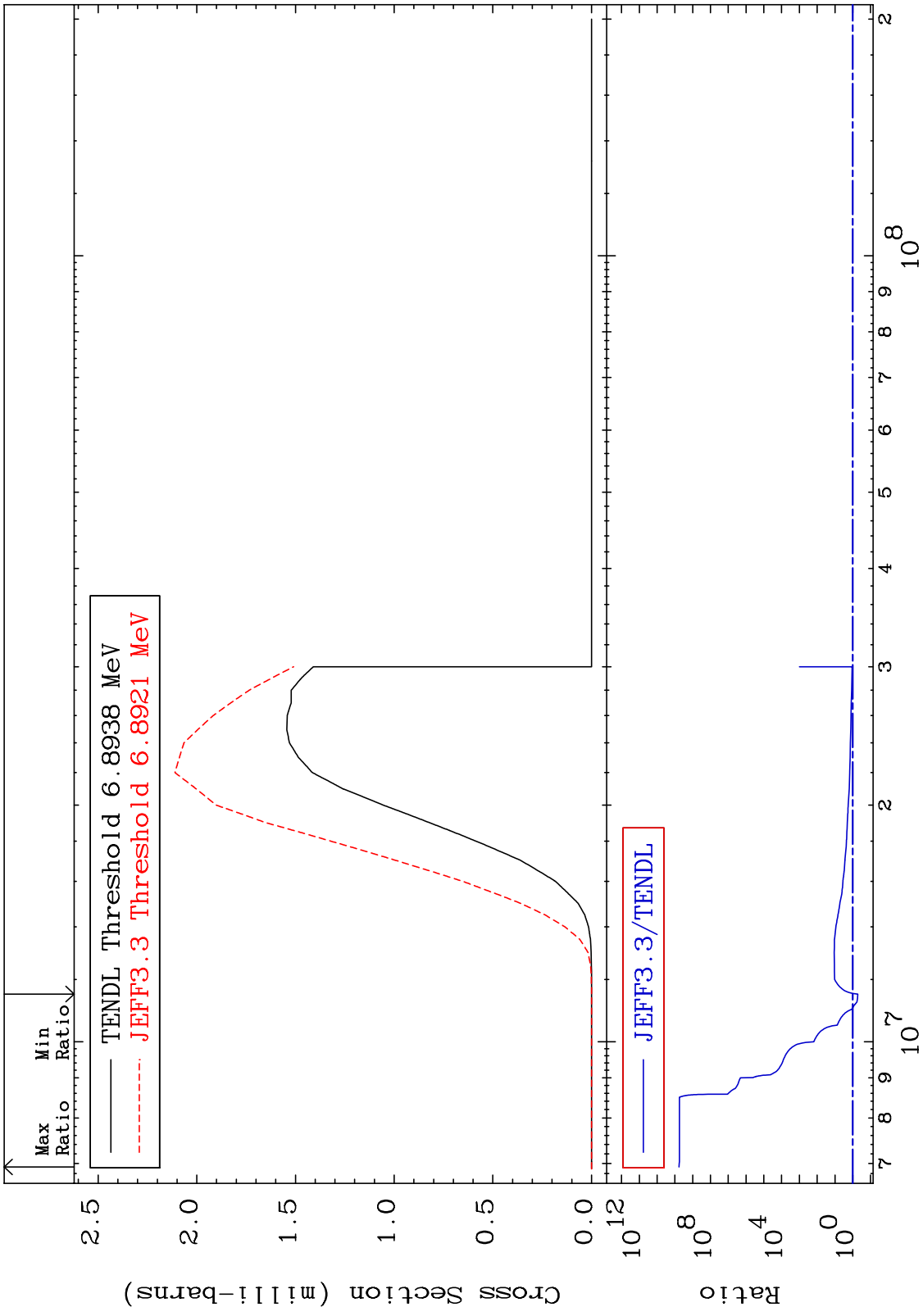
Radionuclide Production Cross Section -80.03 To 9999. %



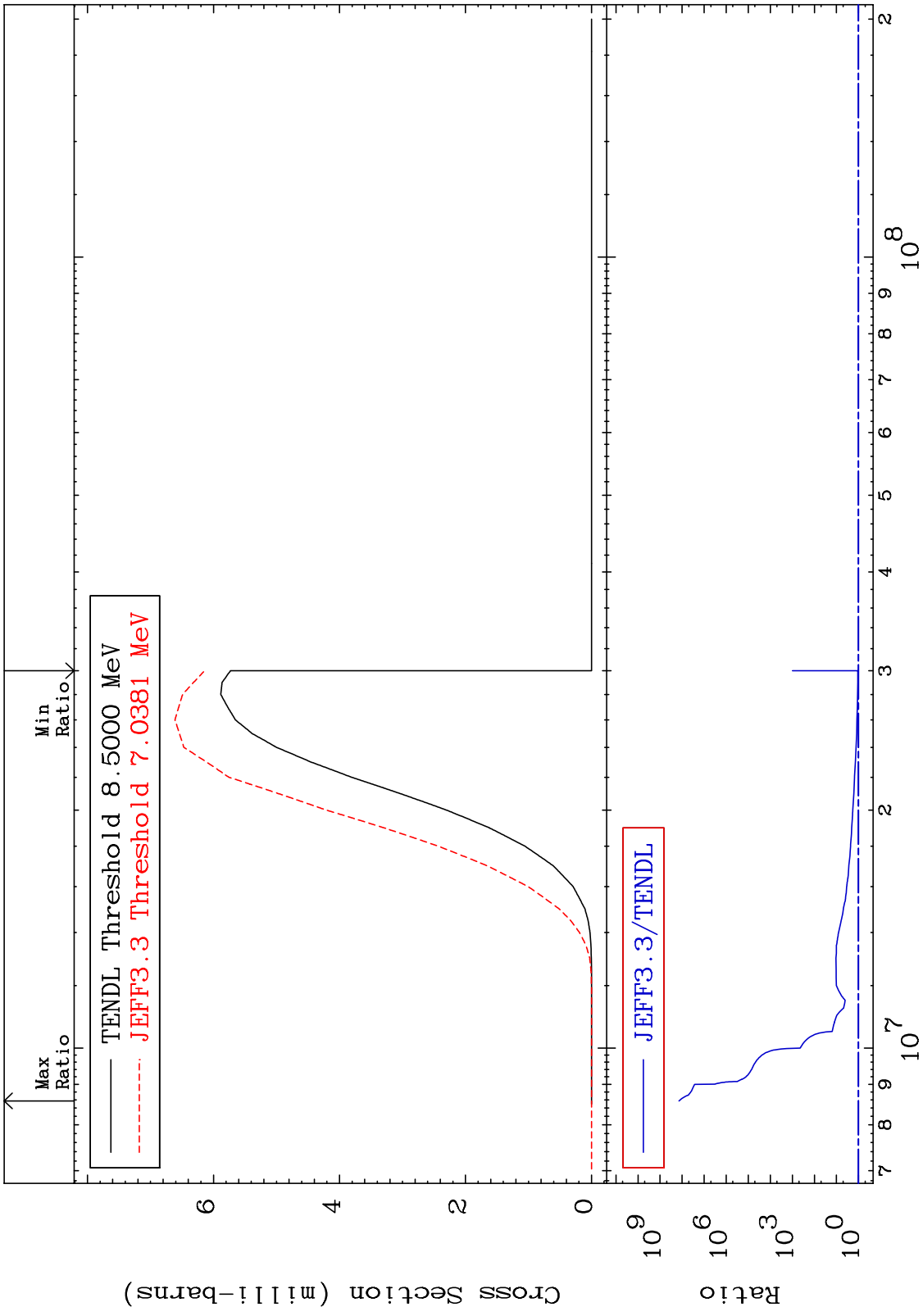
70

Incident Energy (eV)

53-I -127



MAT 5325 (n, t): 52-Te-125m2 53-I -127
 Radionuclide Production Cross Section 7.161 To 9999. %

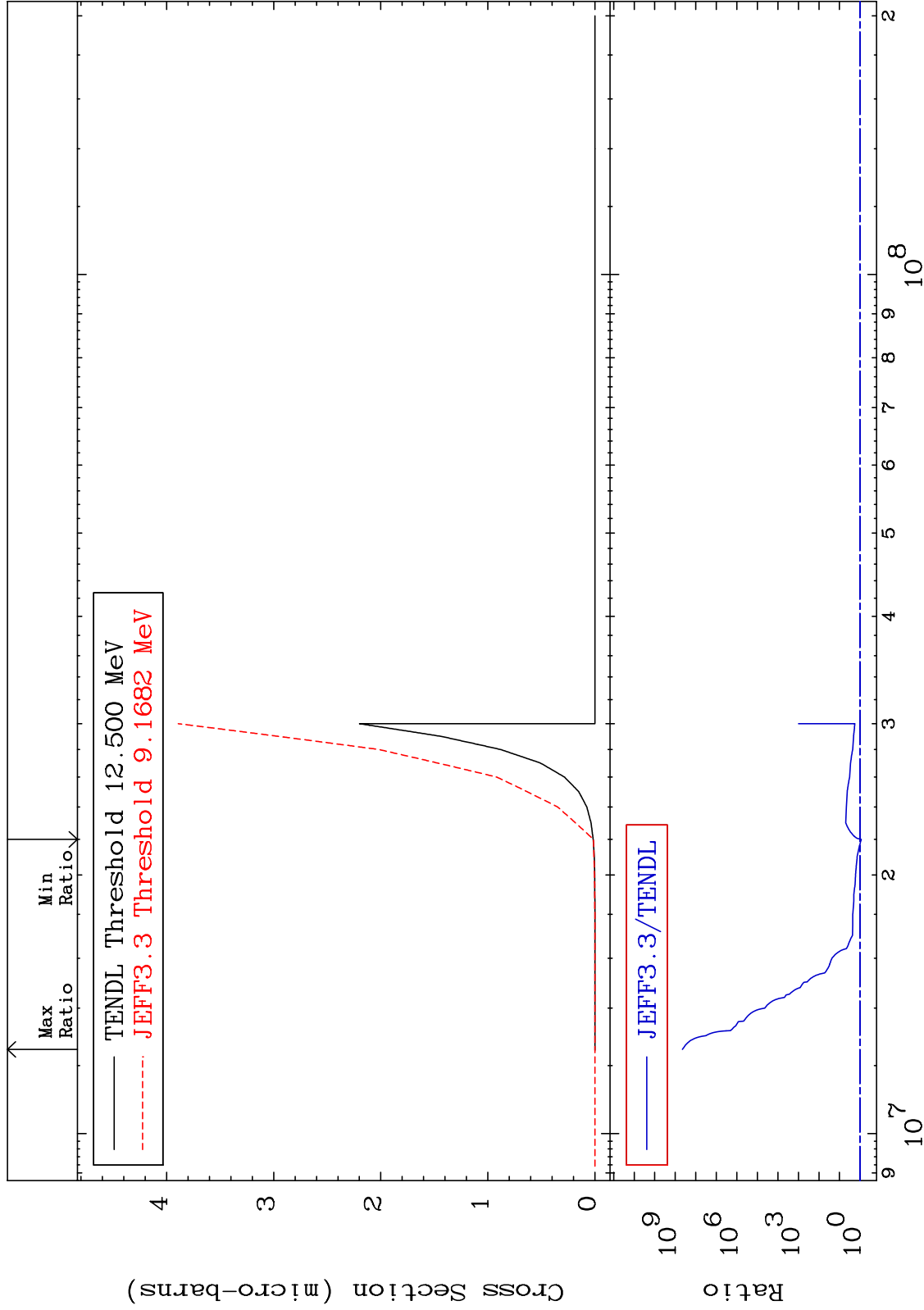


MAT 5325

(n,2p):51-Sb-126g

53-I -127

Radionuclide Production Cross Section -13.59 To 9999. %



73

Incident Energy (eV)

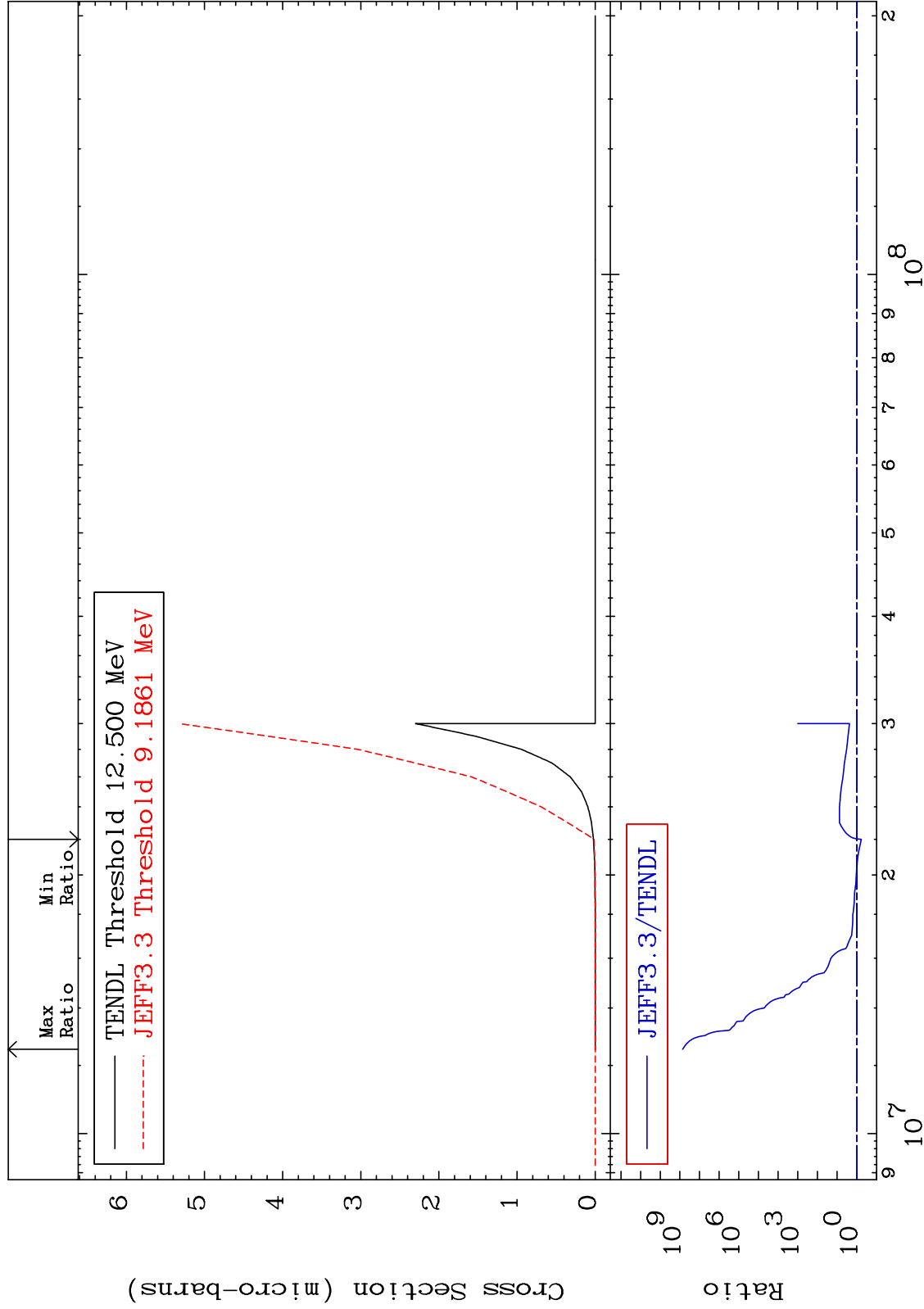
53-I -127

MAT 5325

(n,2p):51-Sb-126m1

53-I -127

Radionuclide Production Cross Section -42.50 To 9999. %



74

Incident Energy (eV)

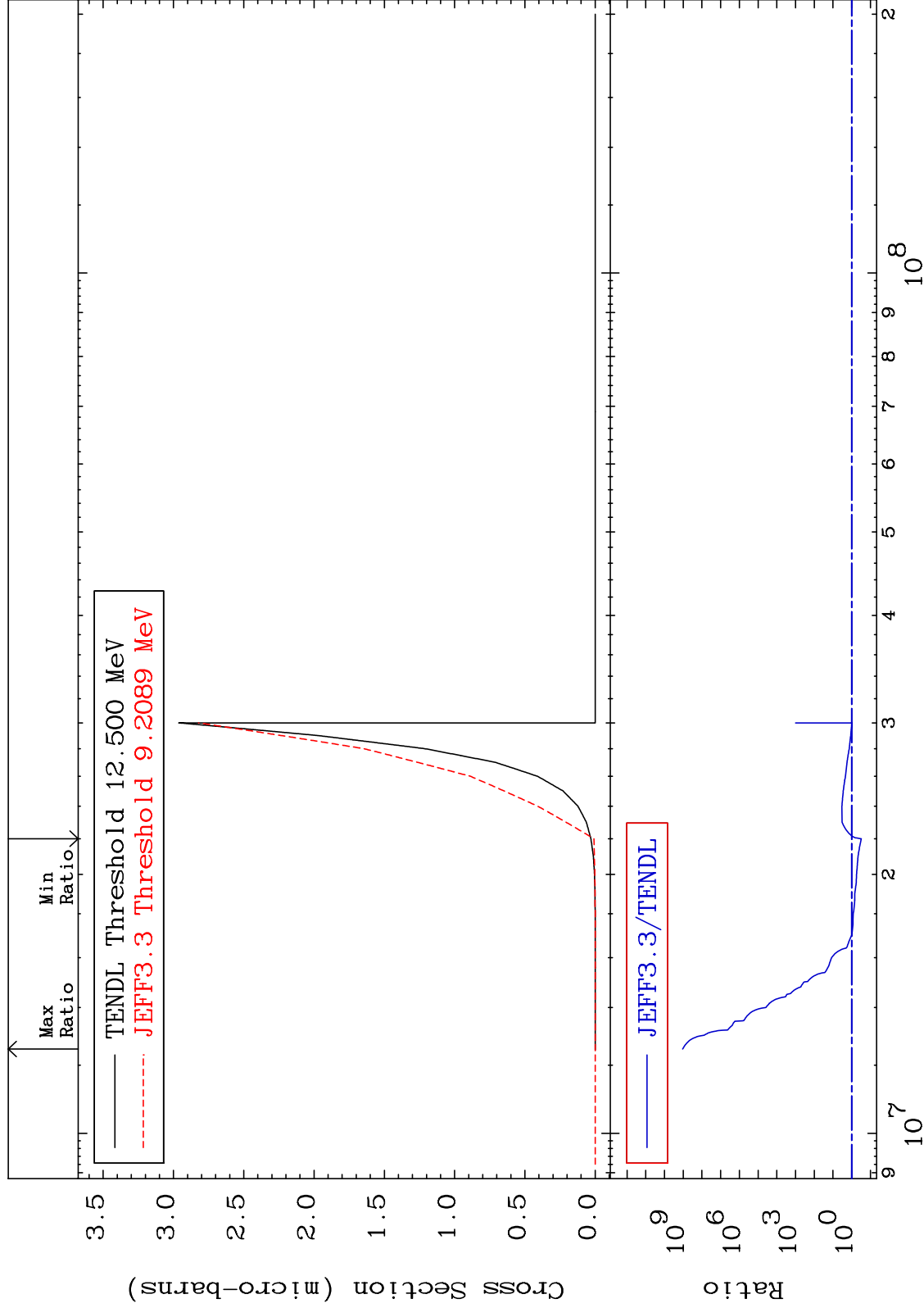
53-I -127

MAT 5325

(n,2p):51-Sb-126m2

53-I -127

Radionuclide Production Cross Section -69.38 To 9999. %



75

Incident Energy (eV)

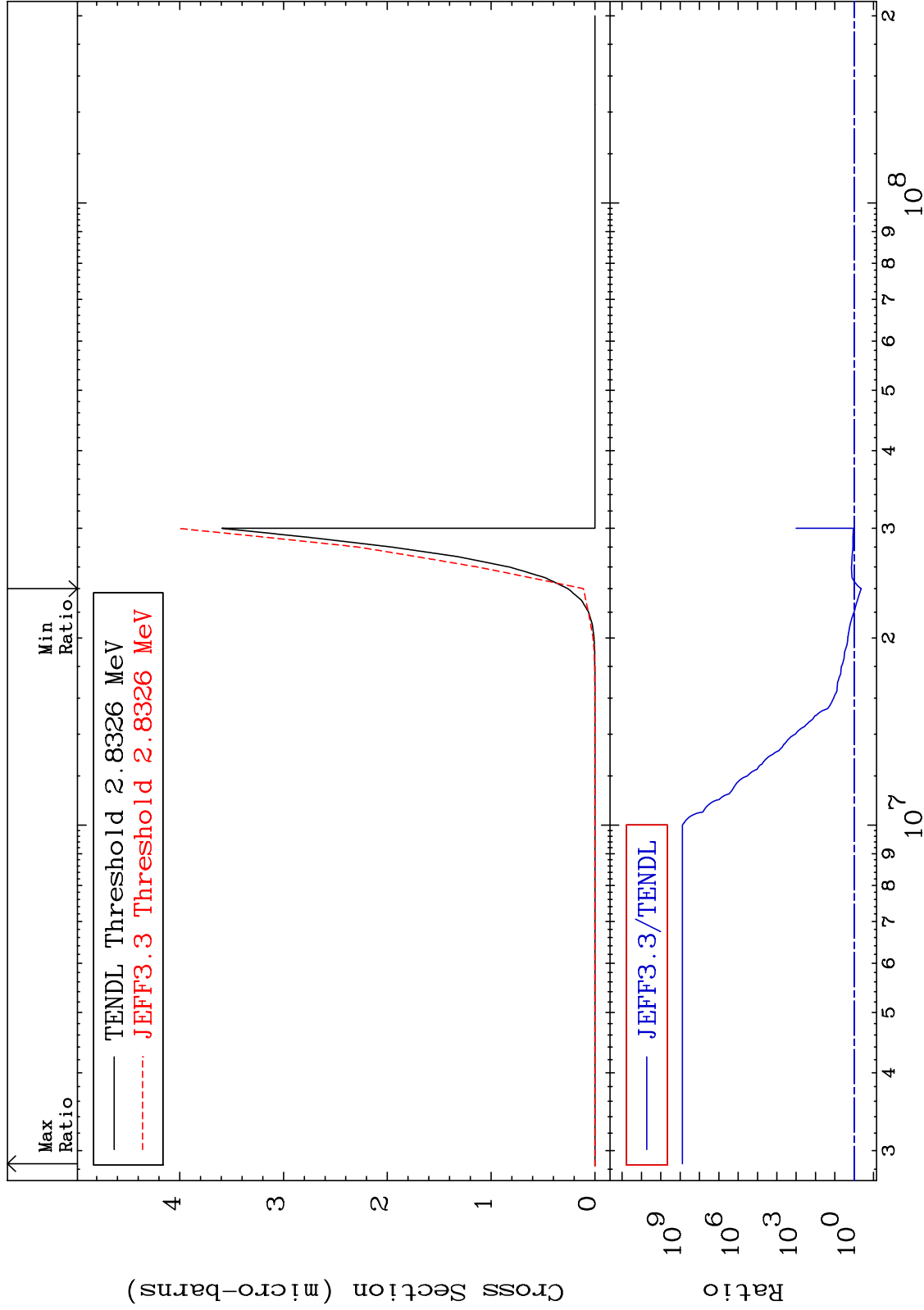
53-I -127

MAT 5325

(n,p) α :50-Sn-123g

53-I -127

Radionuclide Production Cross Section -57.00 To 9999. %



76

Incident Energy (eV)

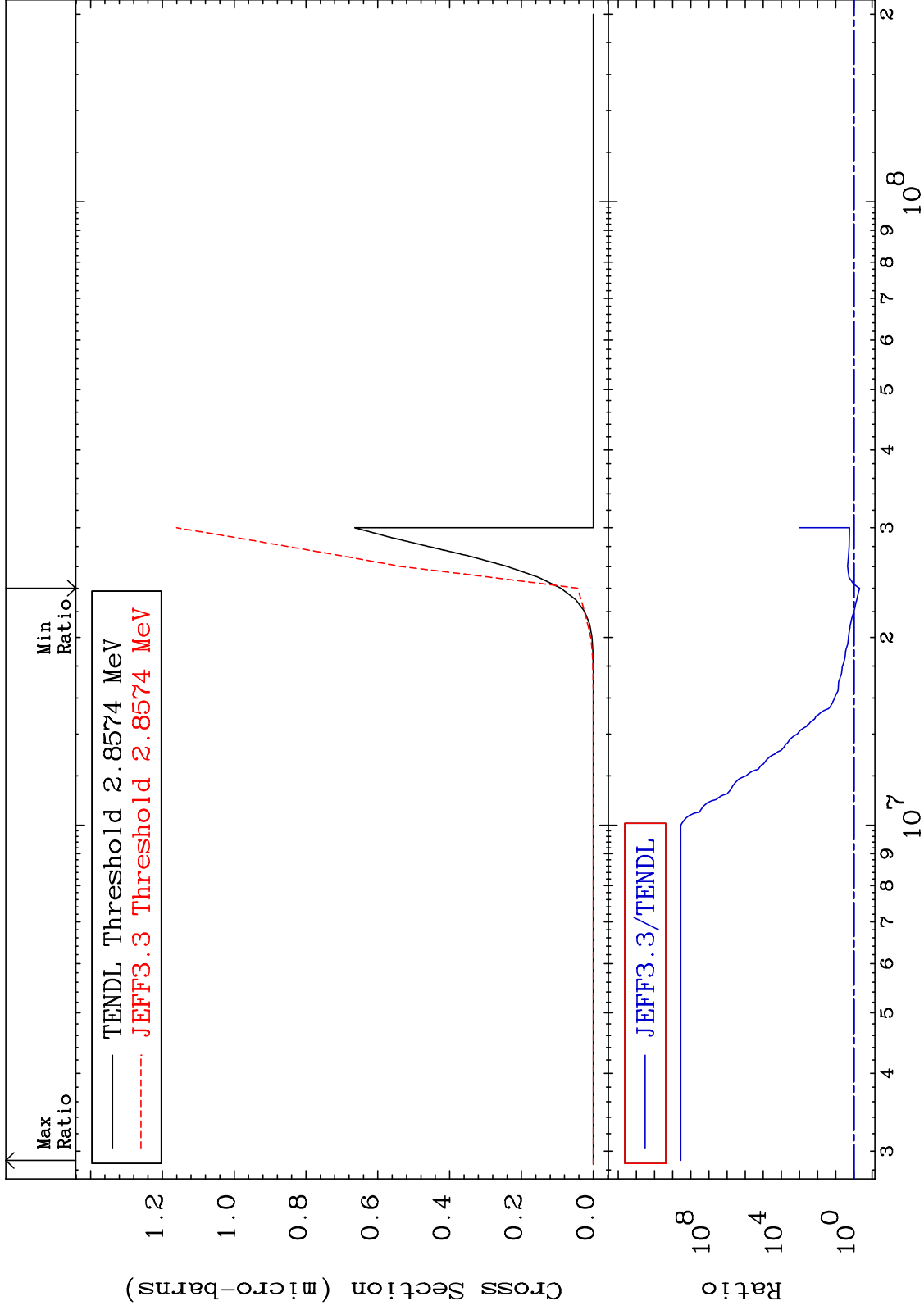
53-I -127

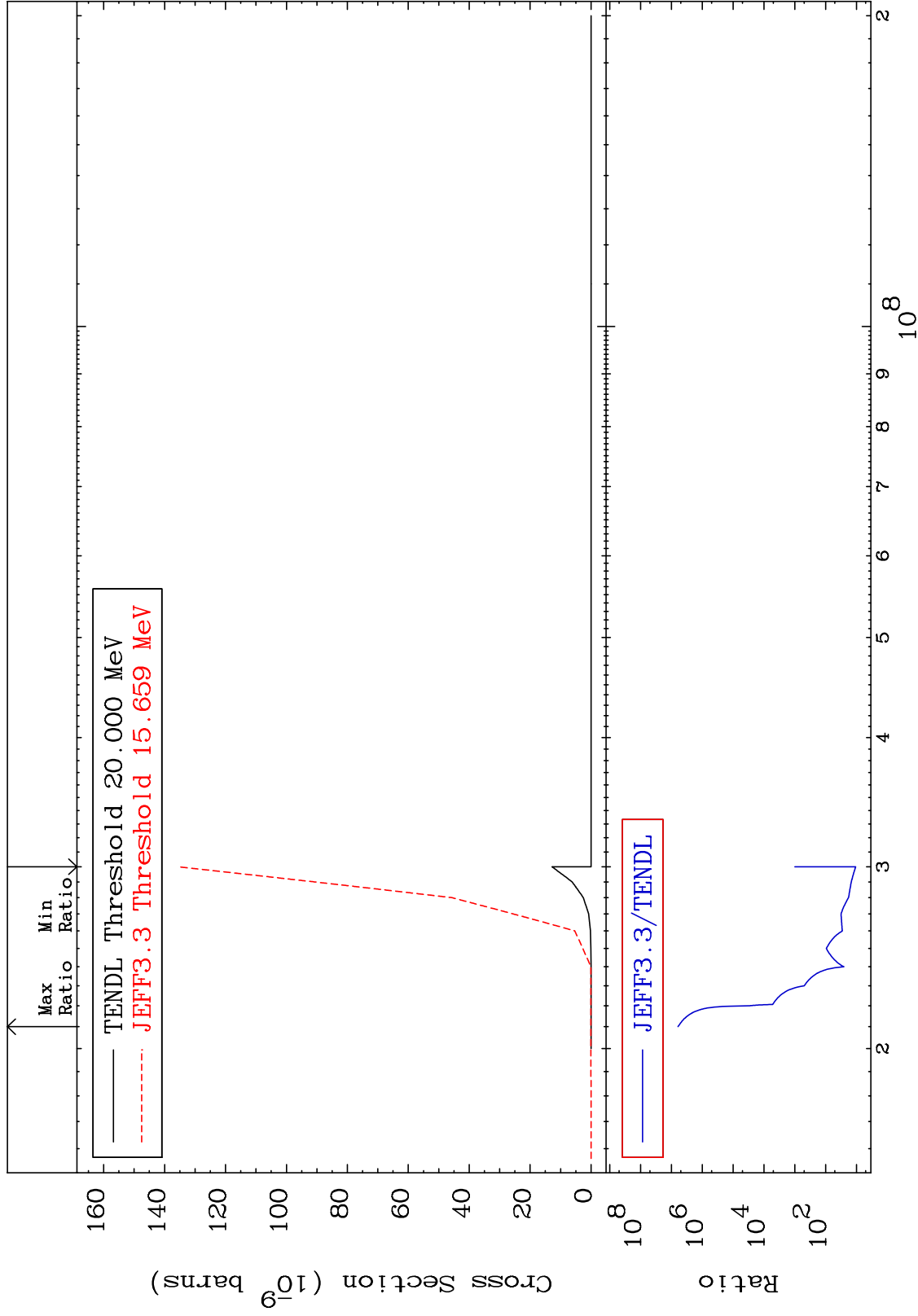
MAT 5325

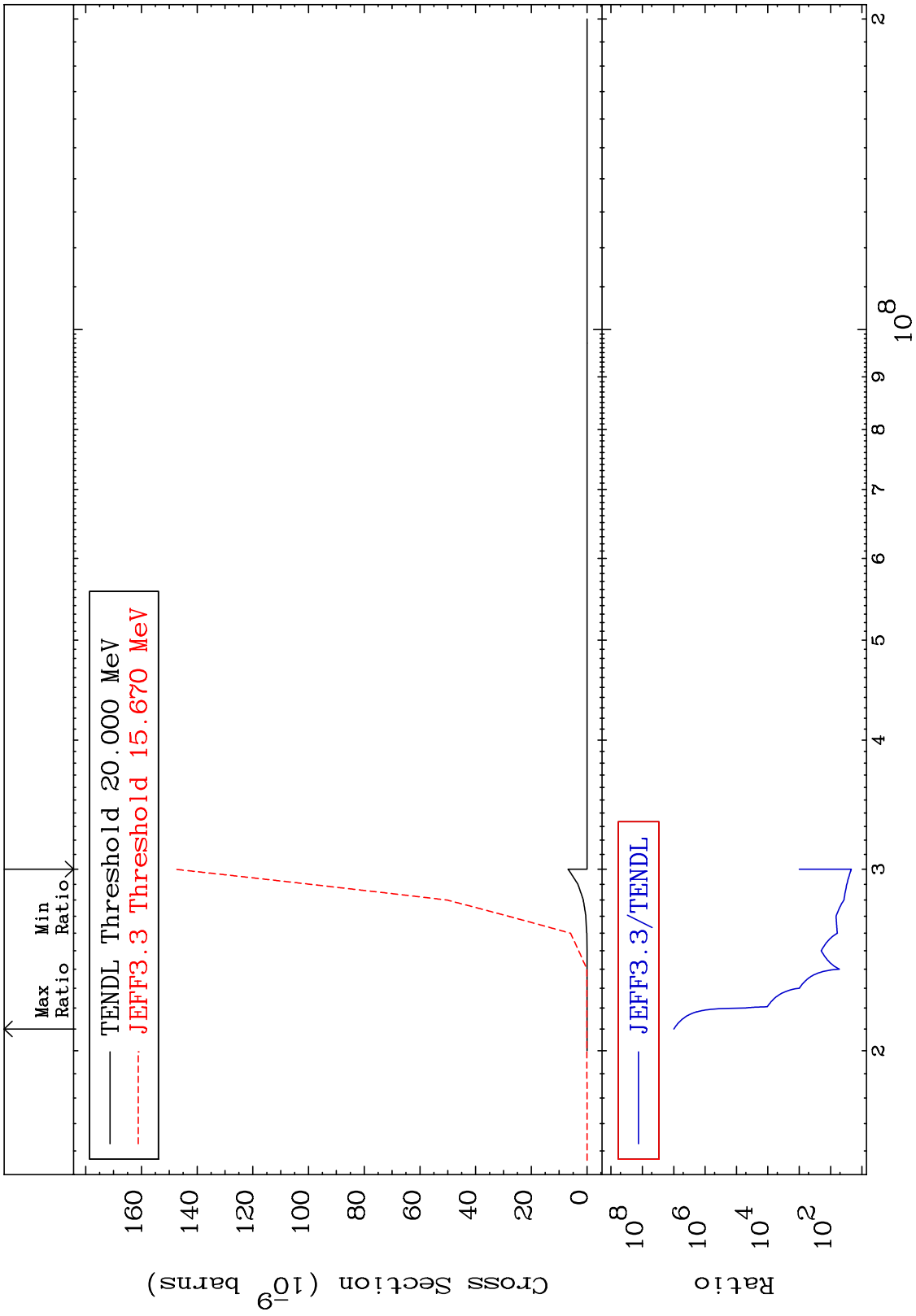
(n,p) α :50-Sn-123m1

53-I -127

Radionuclide Production Cross Section -51.73 To 9999. %







MAT 5325

(n,p) t:51-Sb-124m2

53-I -127

Radionuclide Production Cross Section 1146. To 9999. %

