

Program Complot
(Version 2018-1)

by

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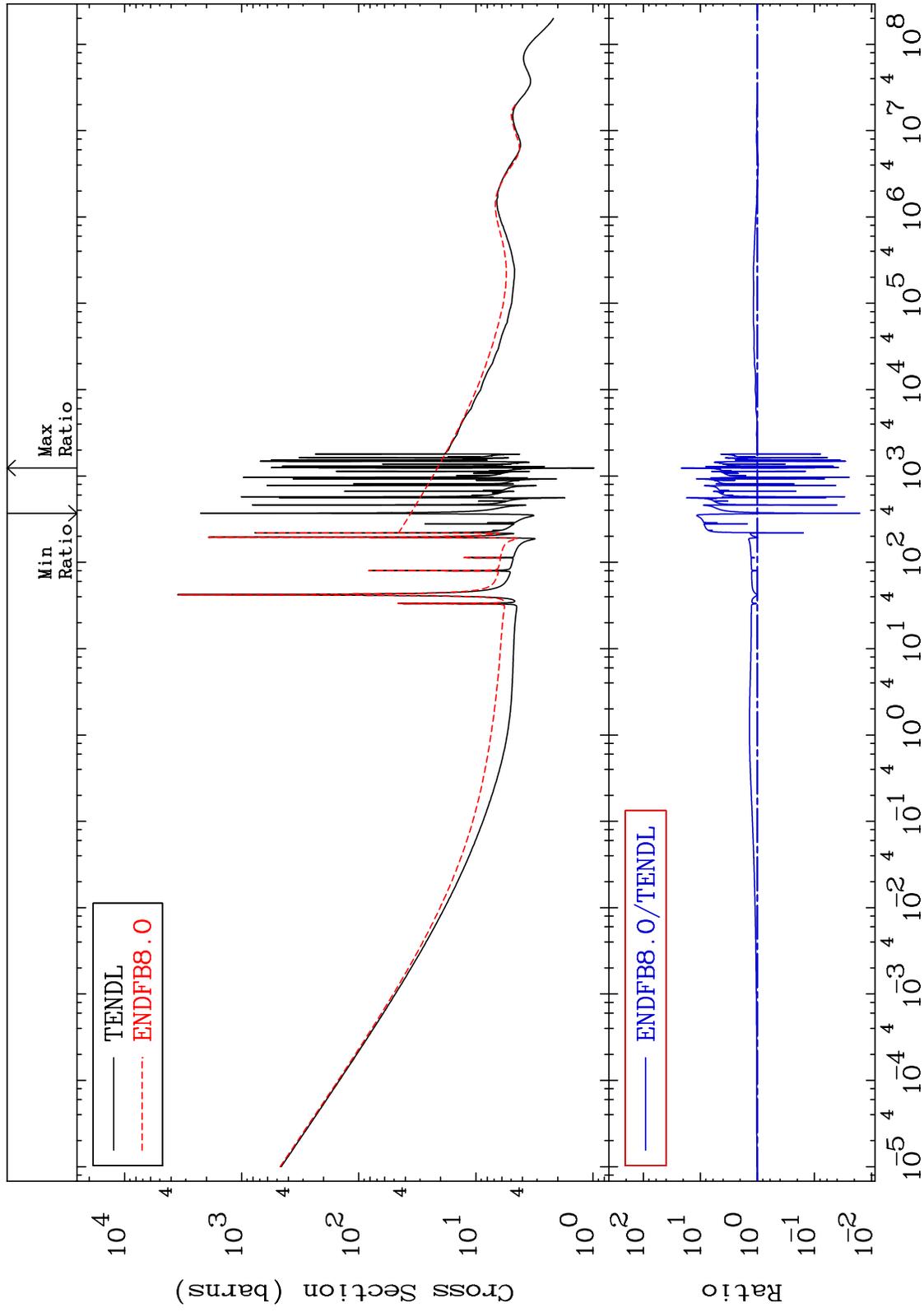
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5531

Total
Cross Section

55-Cs-135
-98.40 To 2064. %



1

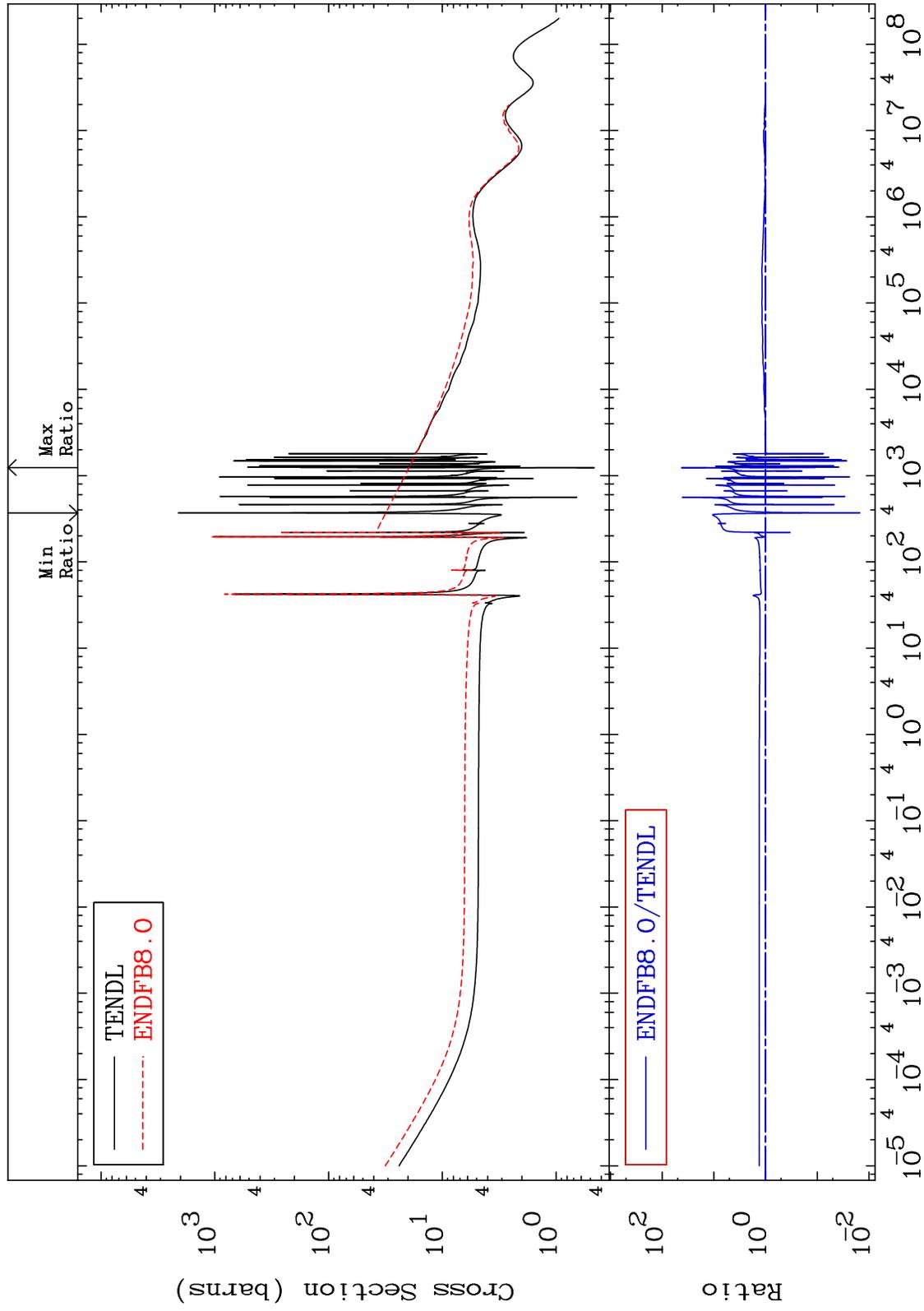
Incident Energy (eV)

55-Cs-135

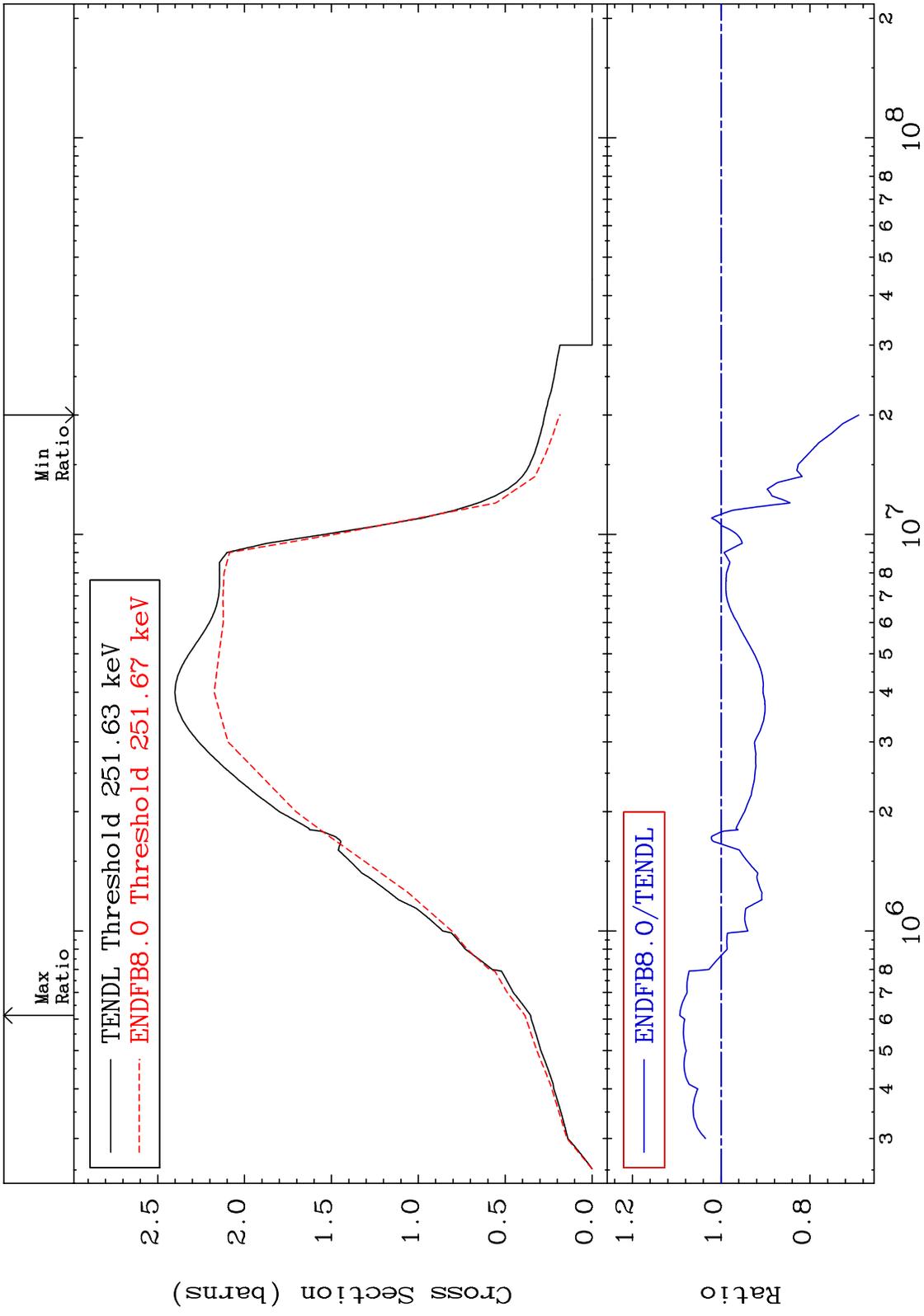
MAT 5531

Elastic
Cross Section

55-Cs-135
-98.50 To 4133. %



MAT 5531 Inelastic Cross Section 55-Cs-135 -31.01 To 9.320 %



3 55-Cs-135

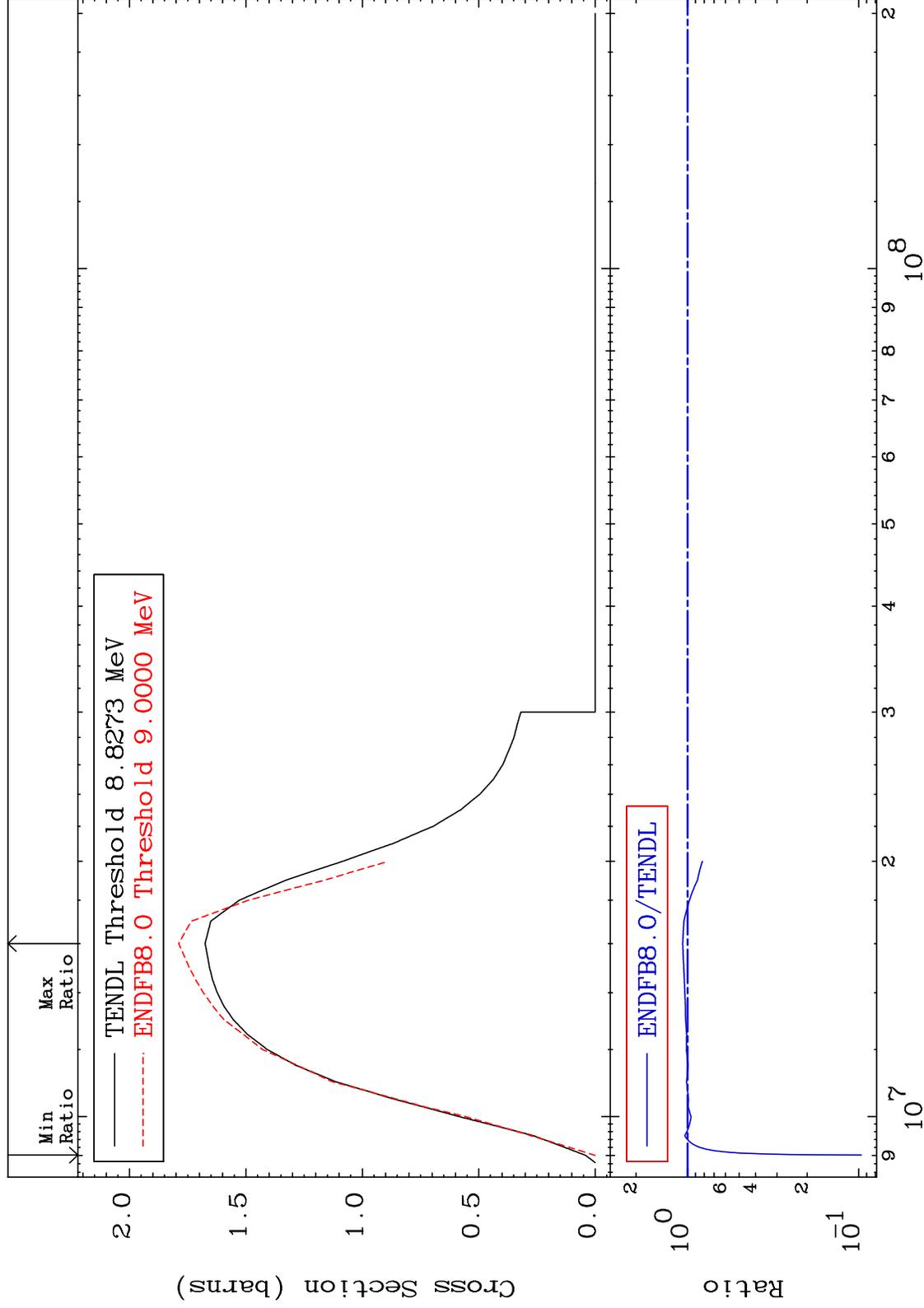
MAT 5531

(n,2n)

55-Cs-135

Cross Section

-90.34 To 6.782 %



4

Incident Energy (eV)

55-Cs-135

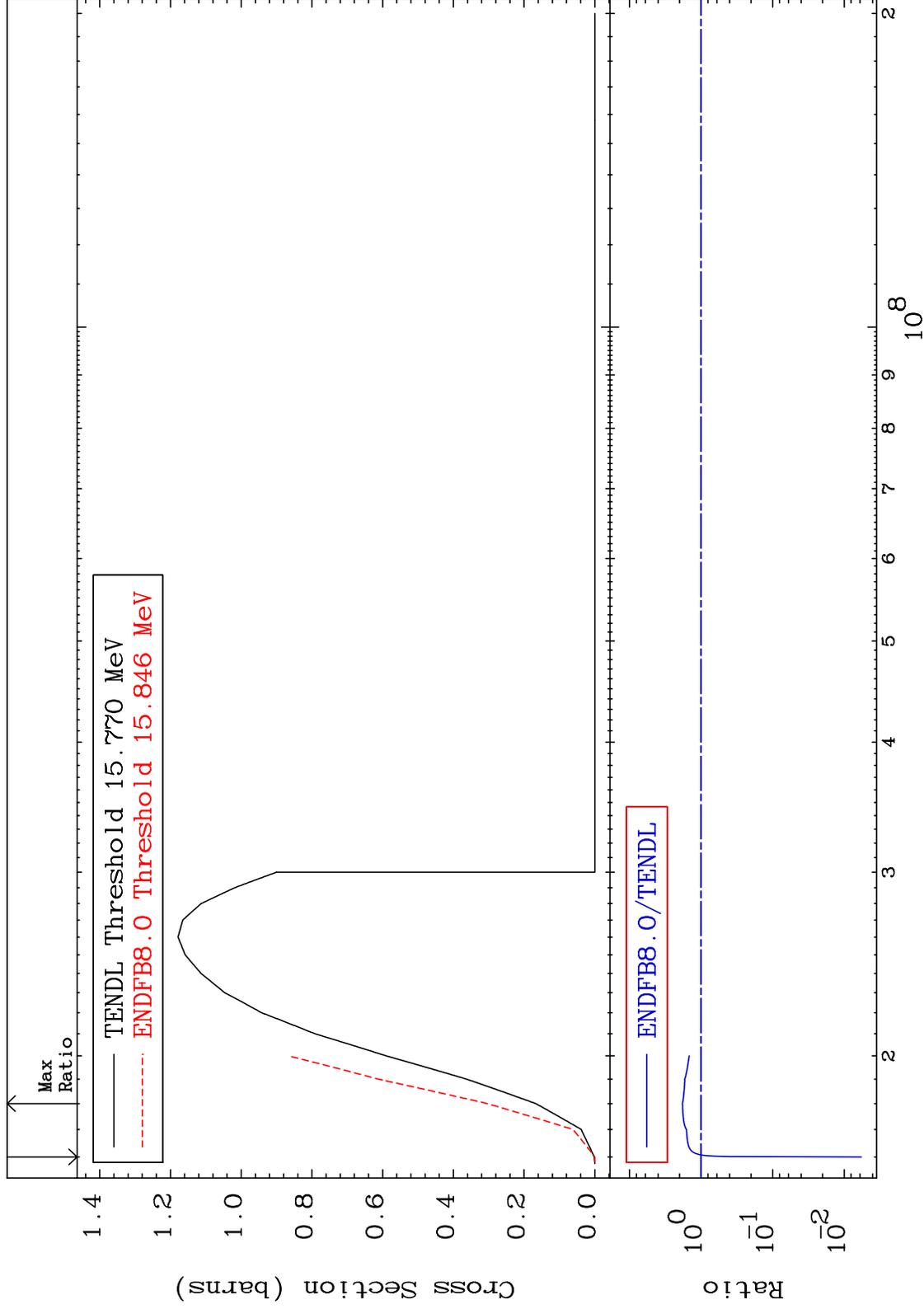
MAT 5531

(n,3n)

55-Cs-135

Cross Section

-99.42 To 82.15 %



5

Incident Energy (eV)

55-Cs-135

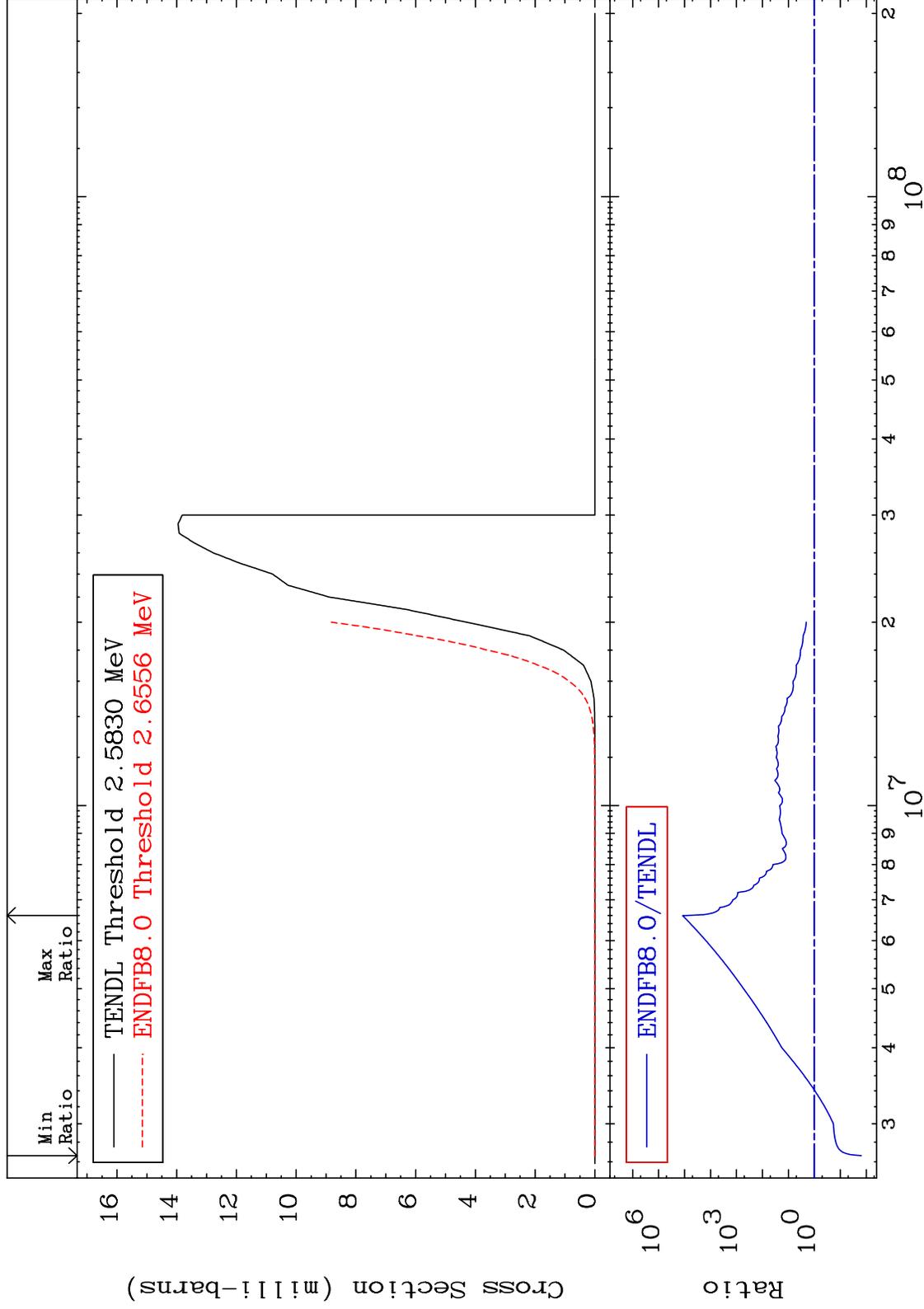
MAT 5531

(n,n') α

55-Cs-135

Cross Section

-98.45 To 9999. %

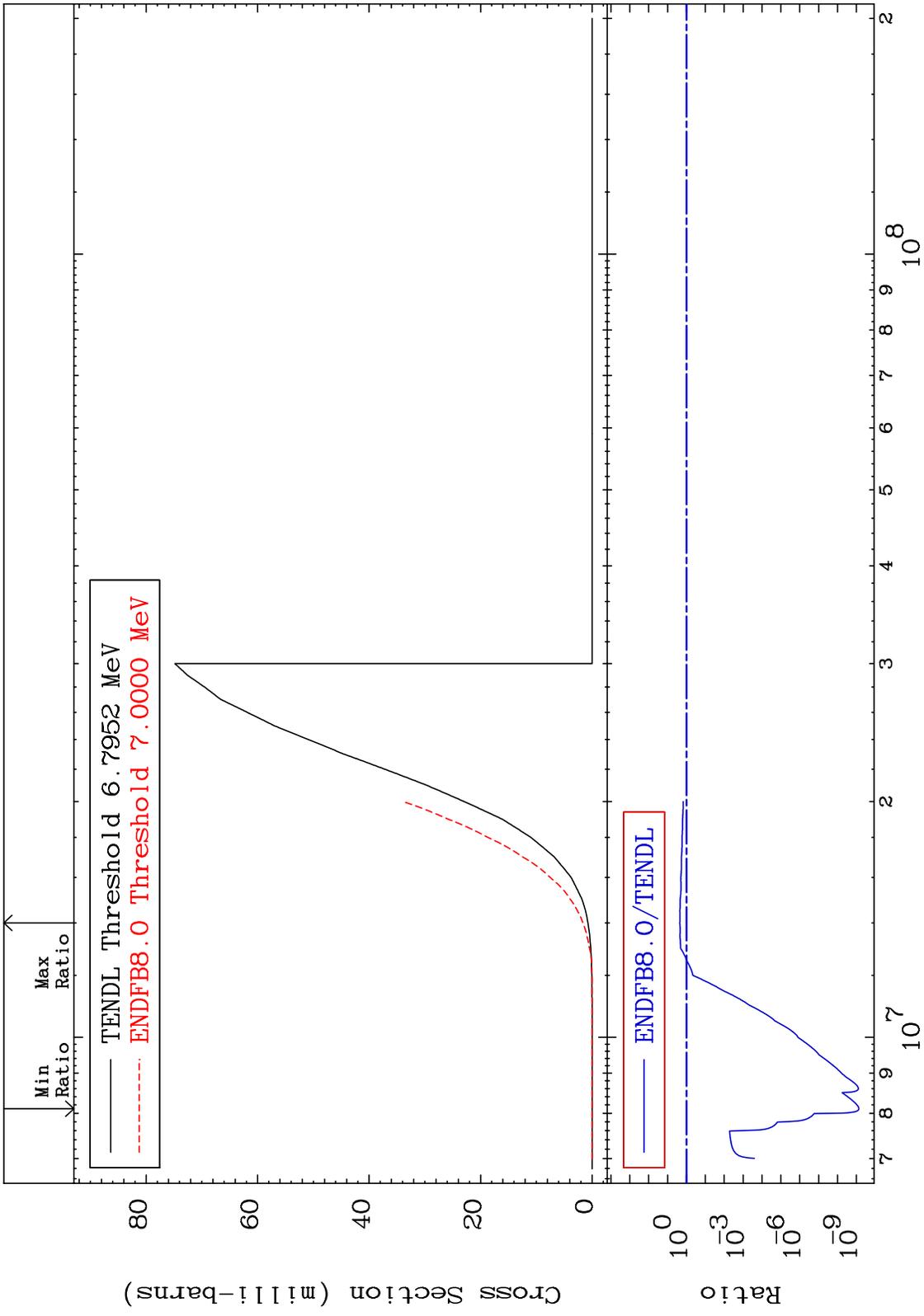


6

Incident Energy (eV)

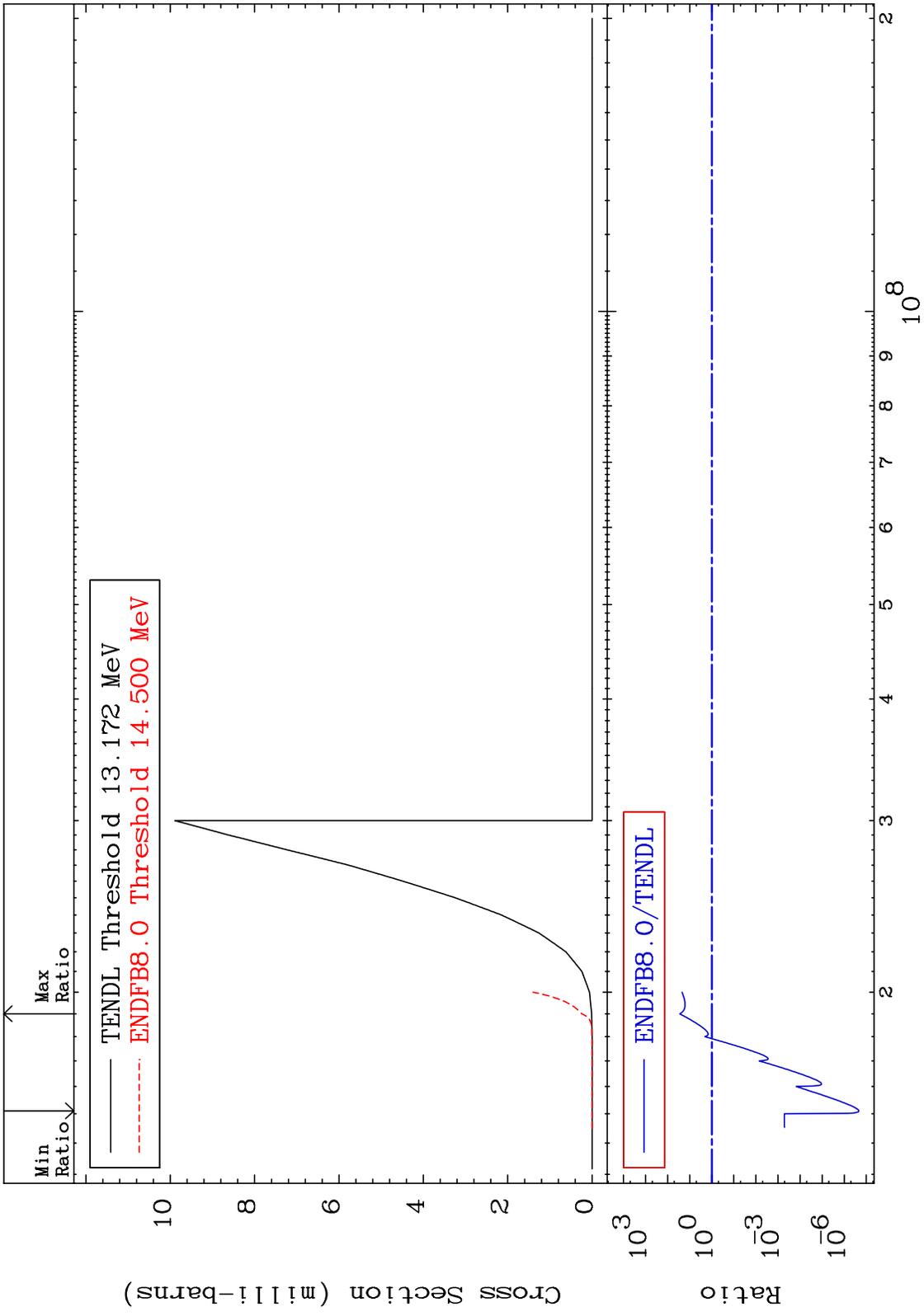
55-Cs-135

MAT 5531 (n,n') p 55-Cs-135
 Cross Section -100.0 To 126.3 %

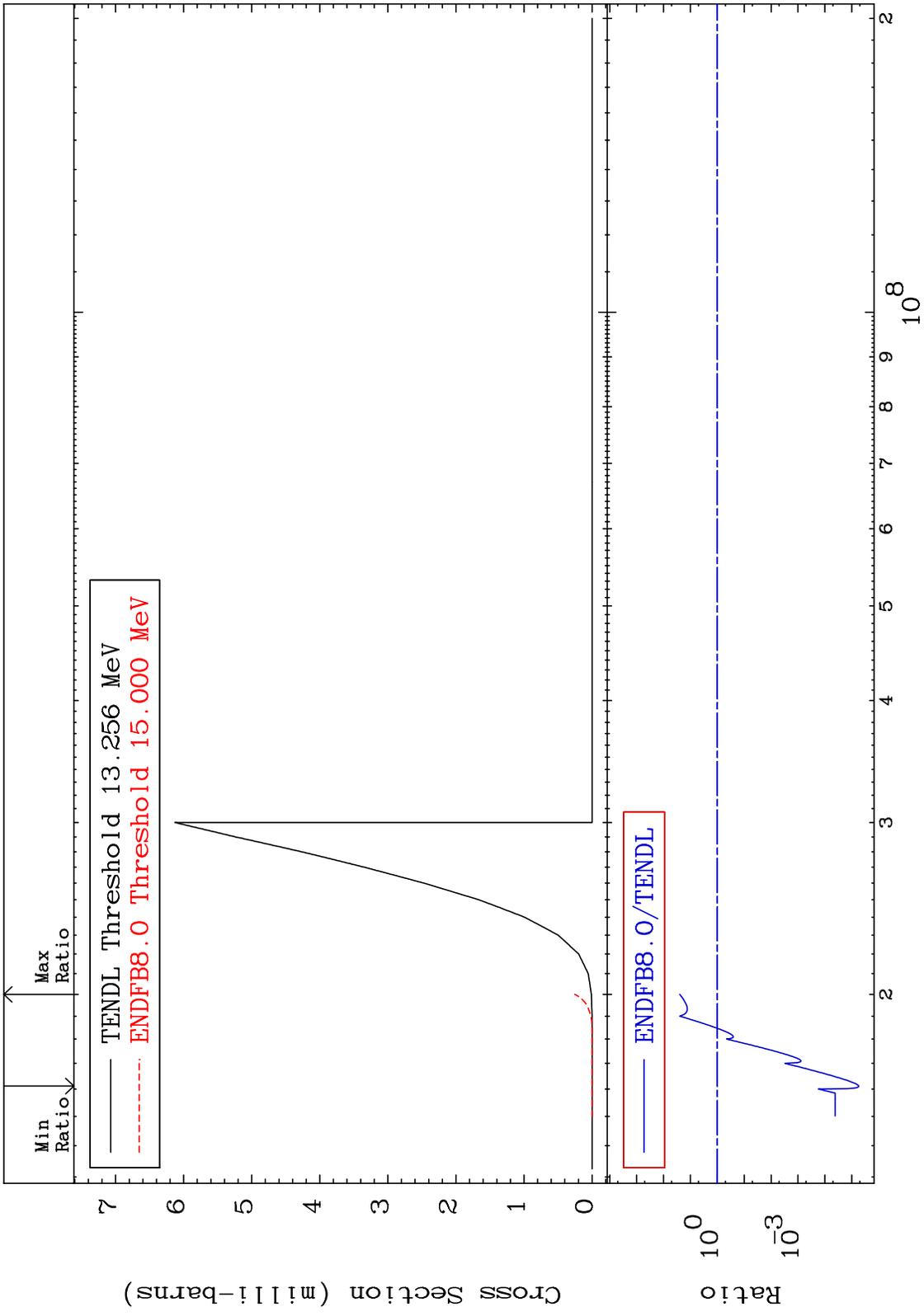


7 8 9 10⁷ 10⁸ Incident Energy (eV) 55-Cs-135

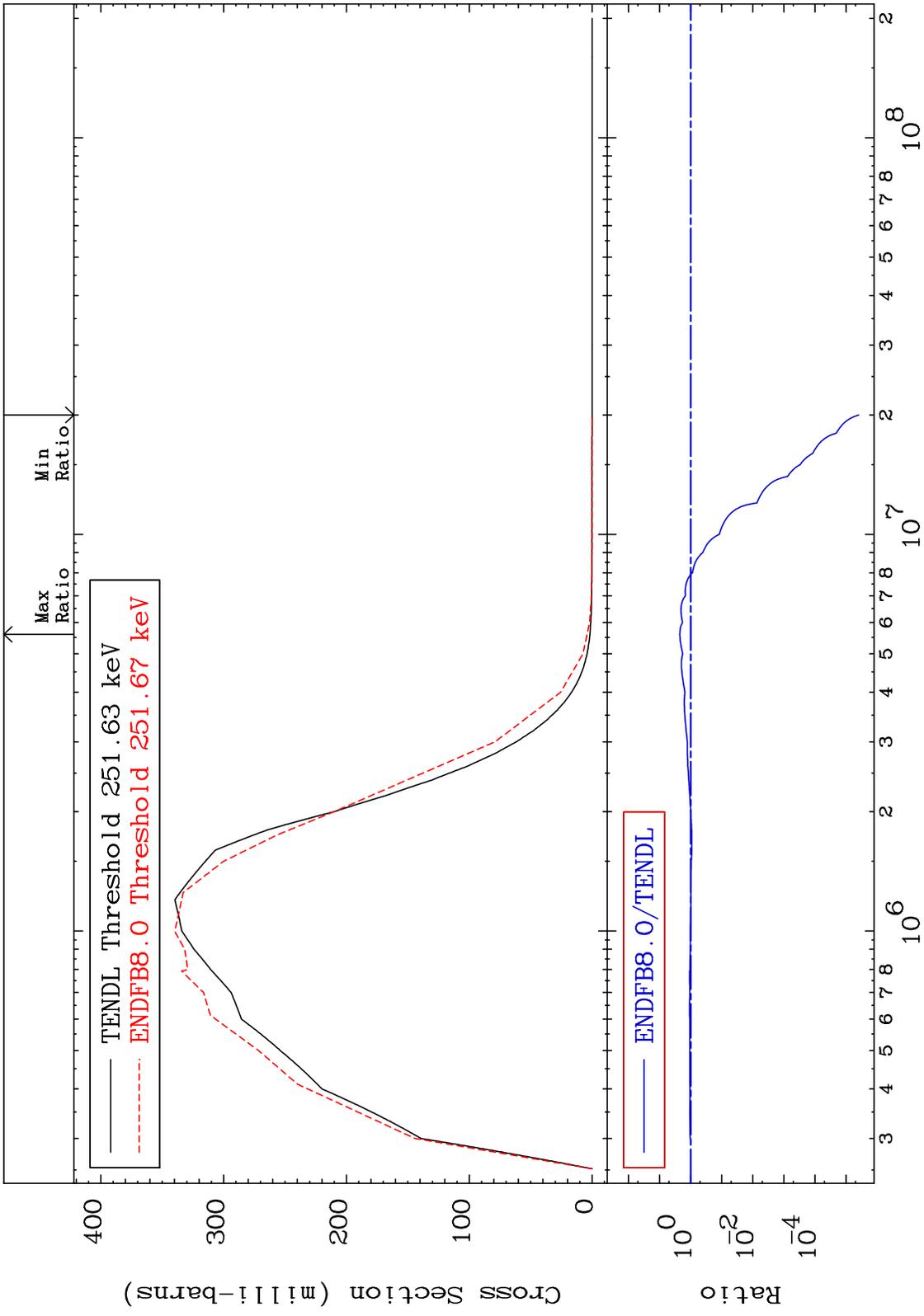
MAT 5531 (n,n') d 55-Cs-135
 Cross Section -100.0 To 2728. %



MAT 5531 (n,n') t 55-Cs-135
 Cross Section -100.0 To 2392. %

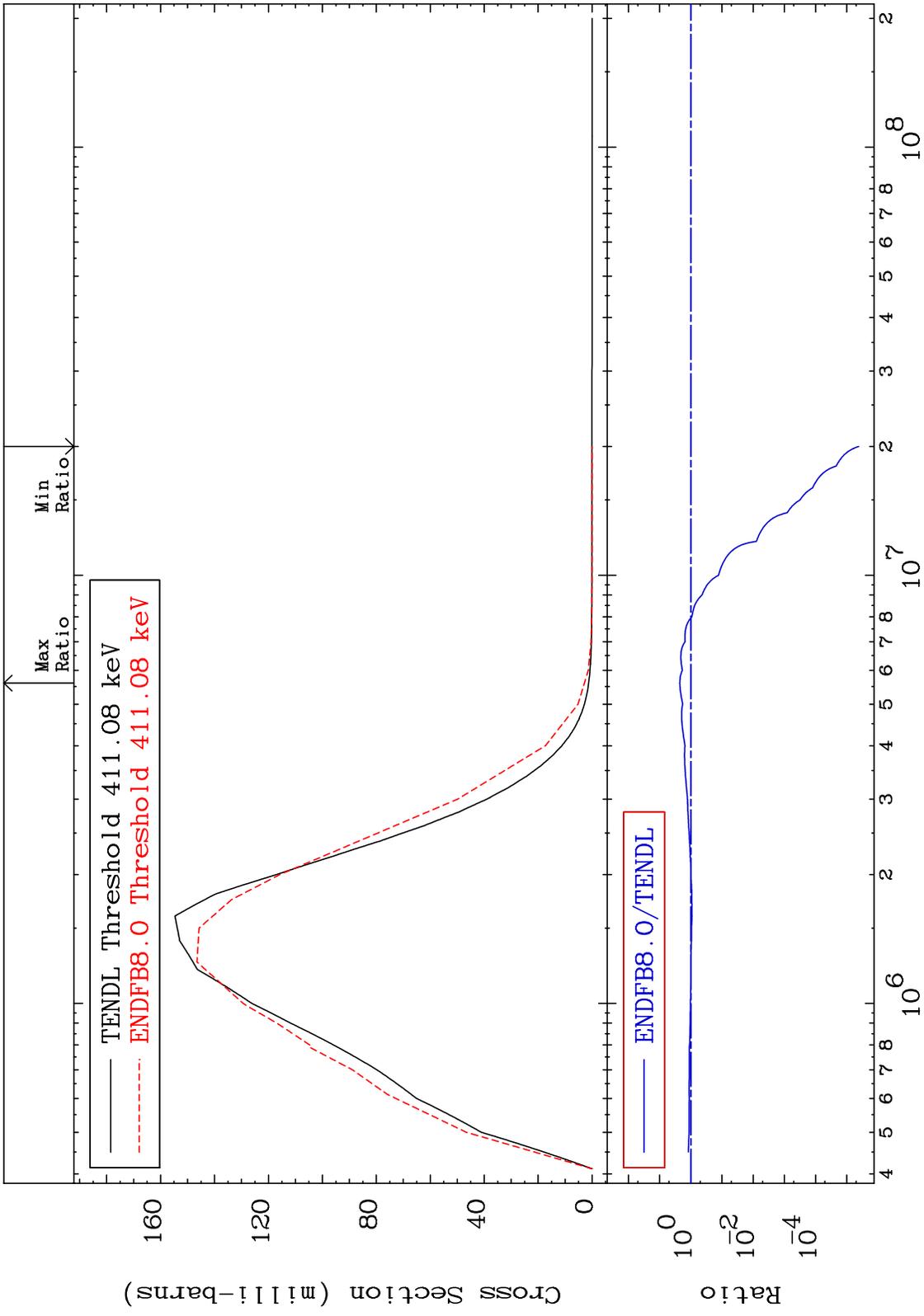


MAT 5531 MT= 51 (n,n') Level Cross Section 55-Cs-135
 -100.0 To 124.5 %

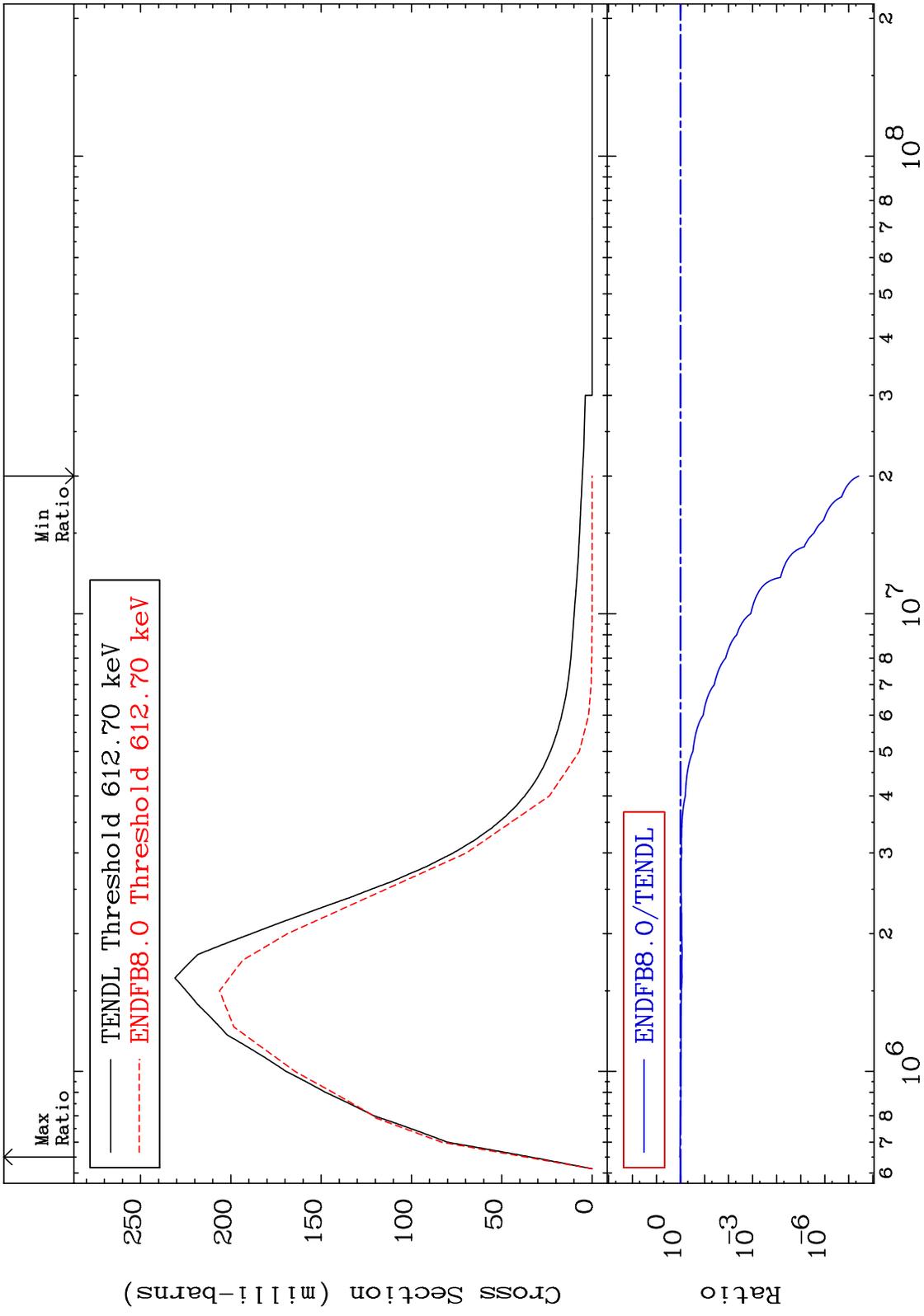


10 Incident Energy (eV) 55-Cs-135

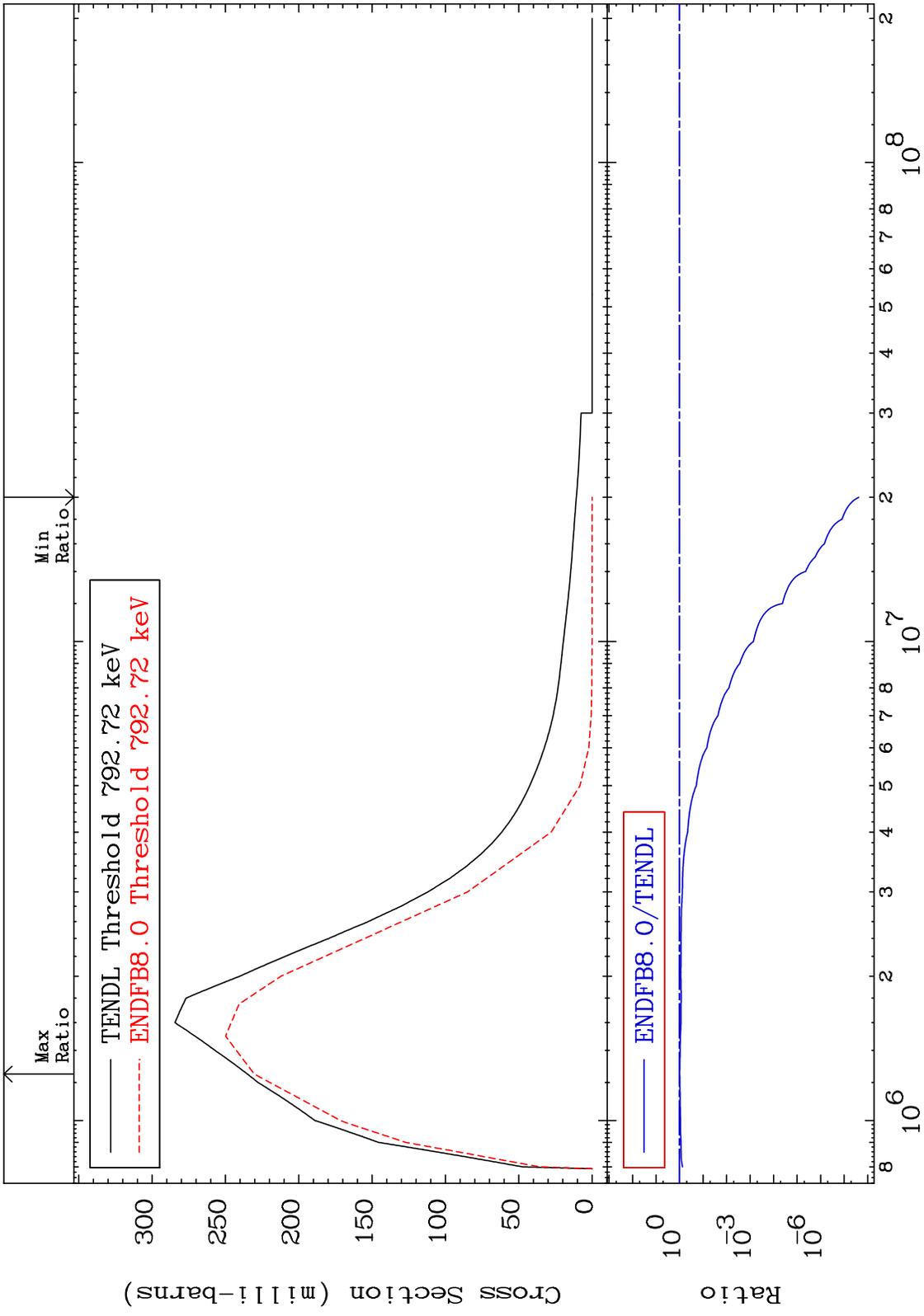
MAT 5531 MT= 52 (n,n') Level Cross Section 55-Cs-135
 -100.0 To 125.7 %



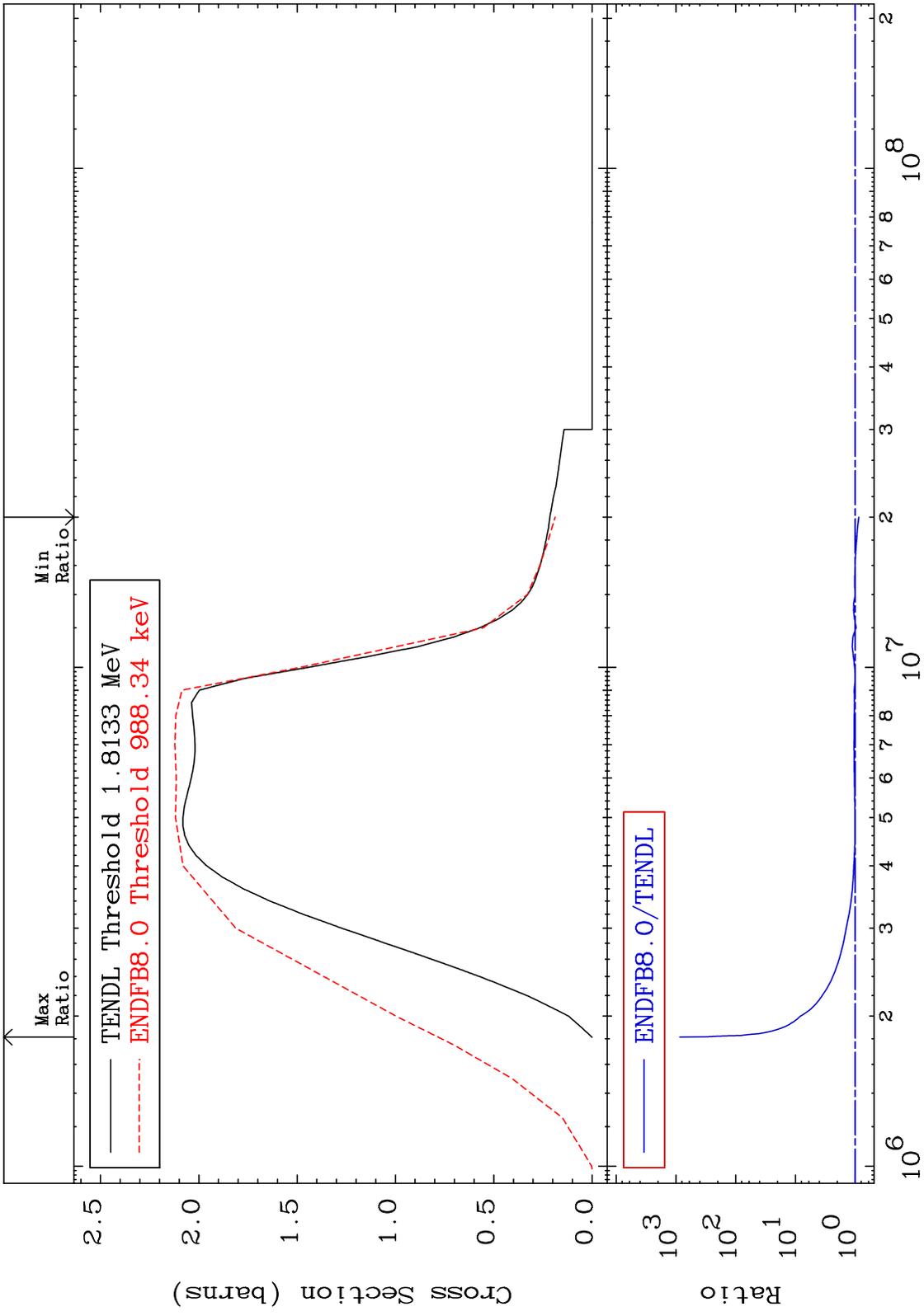
MAT 5531 MT= 53 (n,n') Level Cross Section 55-Cs-135
 -100.0 To 7.764 %



MAT 5531 MT= 54 (n,n') Level Cross Section 55-Cs-135
 -100.0 To -1.990%



MAT 5531 (n,n') Continuum Cross Section 55-Cs-135 -12.59 To 9999. %



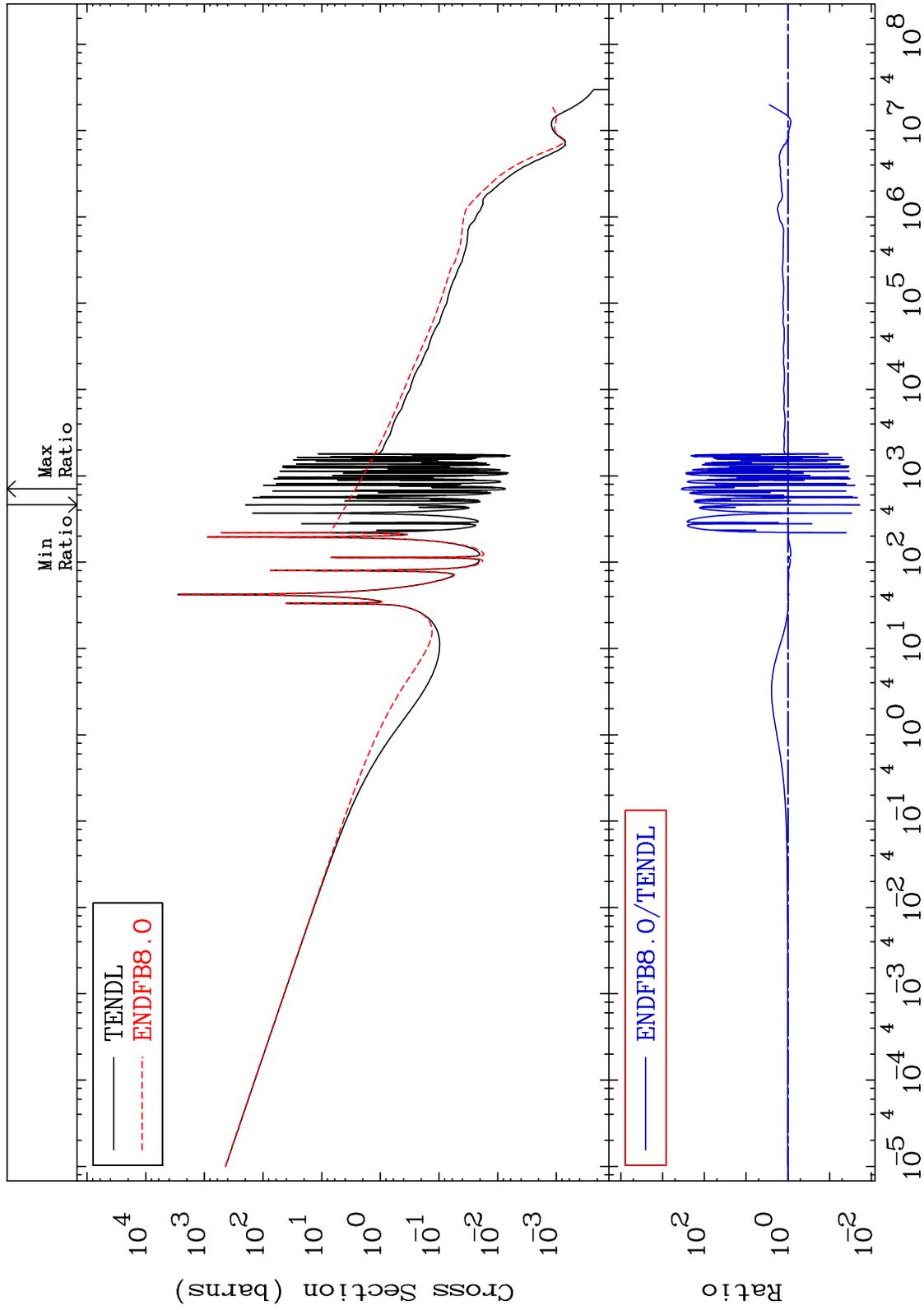
MAT 5531

(n, γ)

55-Cs-135

-98.11 To 9999. %

Cross Section



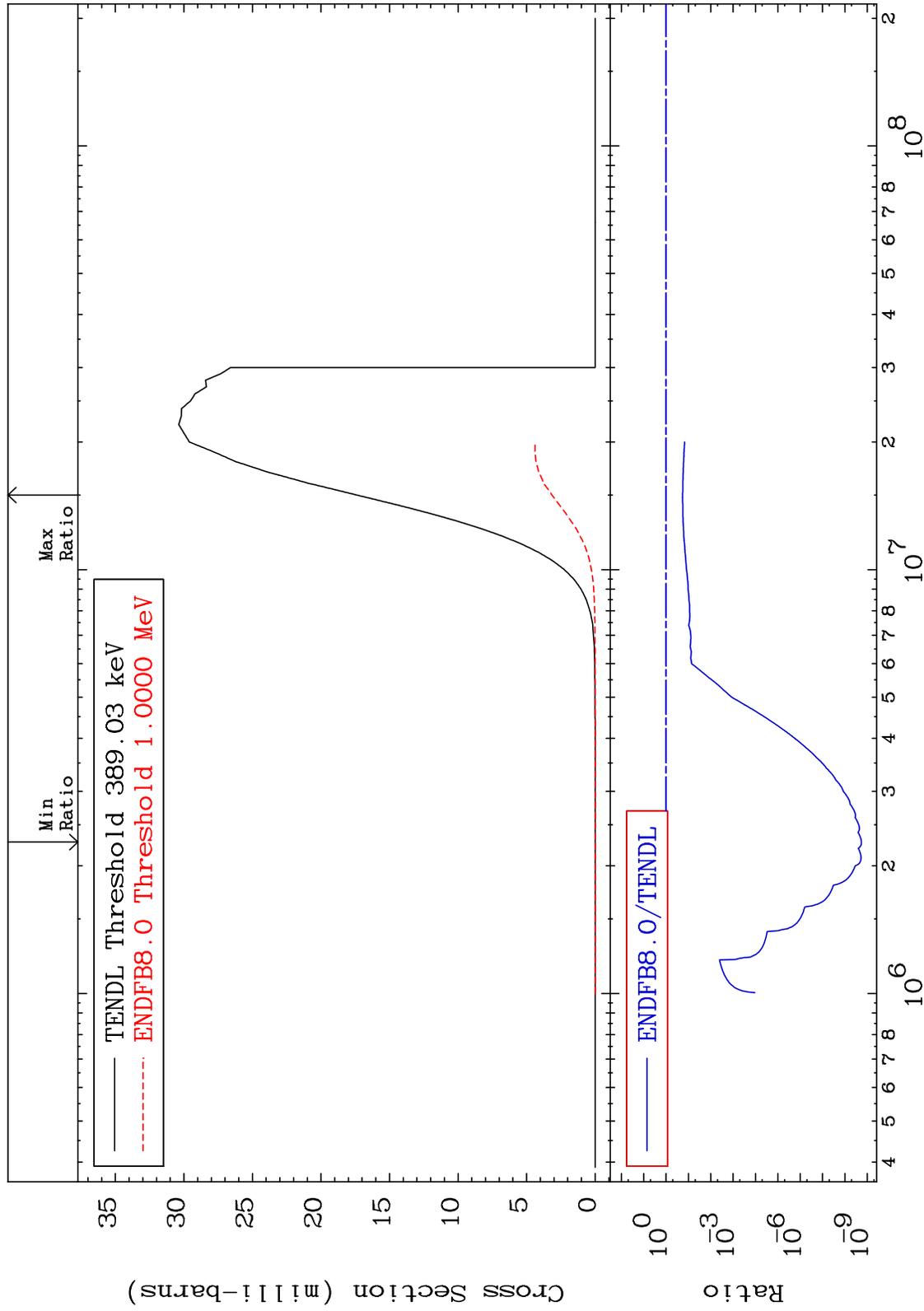
15

Incident Energy (eV)

55-Cs-135

MAT 5531

(n,p) Cross Section
55-Cs-135
-100.0 To -81.87%



16

Incident Energy (eV)

55-Cs-135

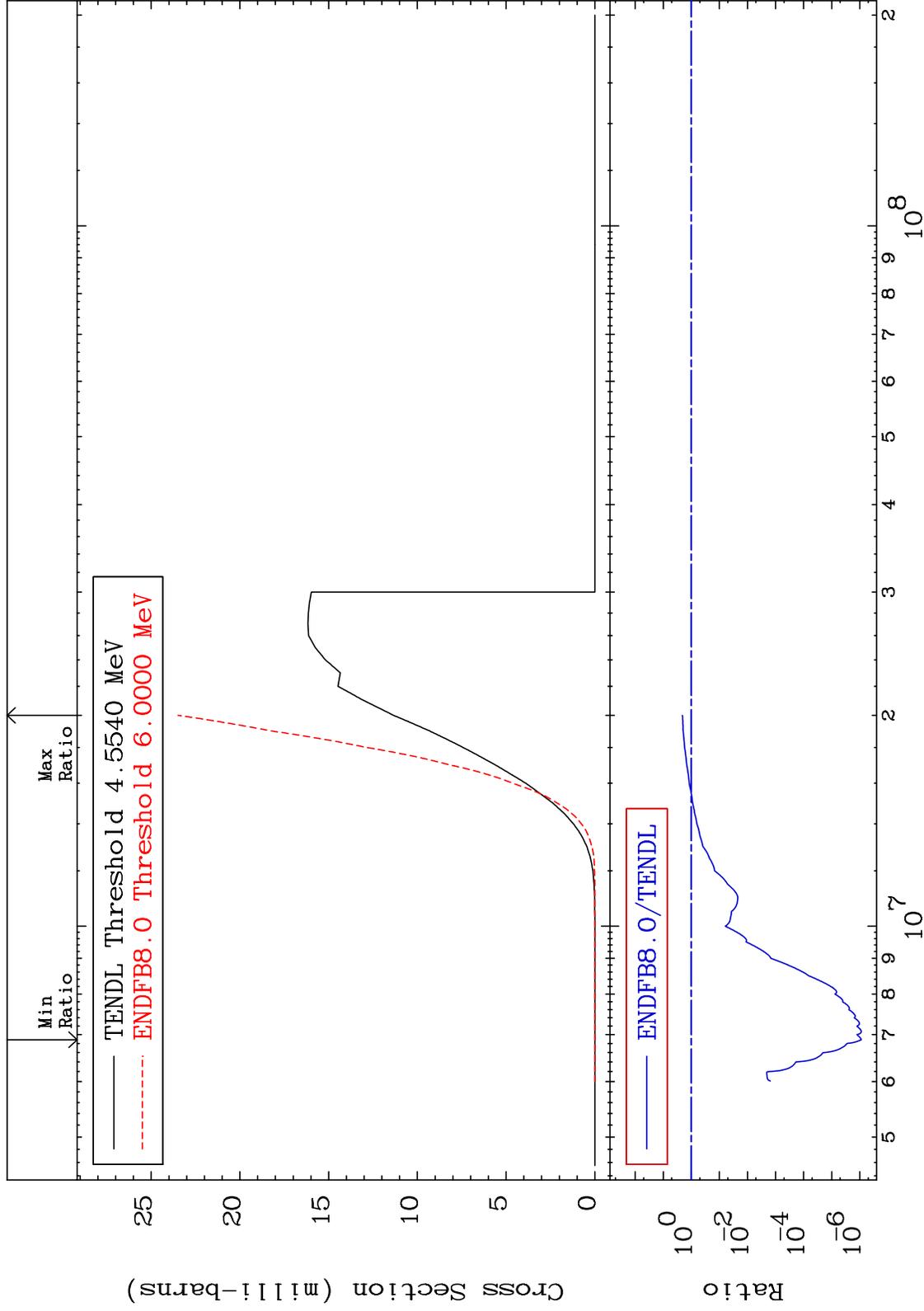
MAT 5531

(n,d)

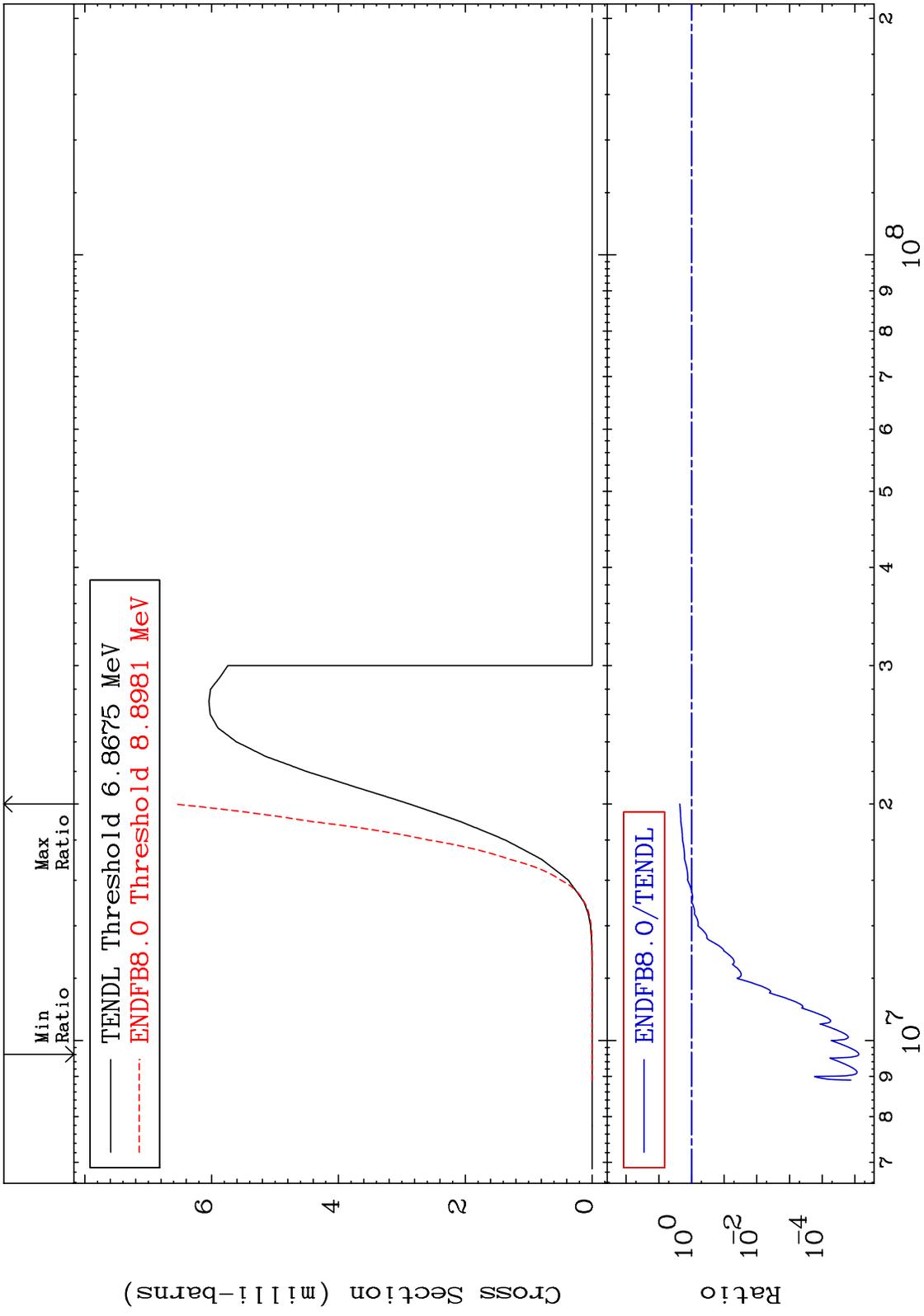
55-Cs-135

-100.0 To 107.2 %

Cross Section



MAT 5531 (n,t) Cross Section 55-Cs-135 -100.0 To 128.5 %



MAT 5531

(n, α)

55-Cs-135

-96.94 To 9999. %

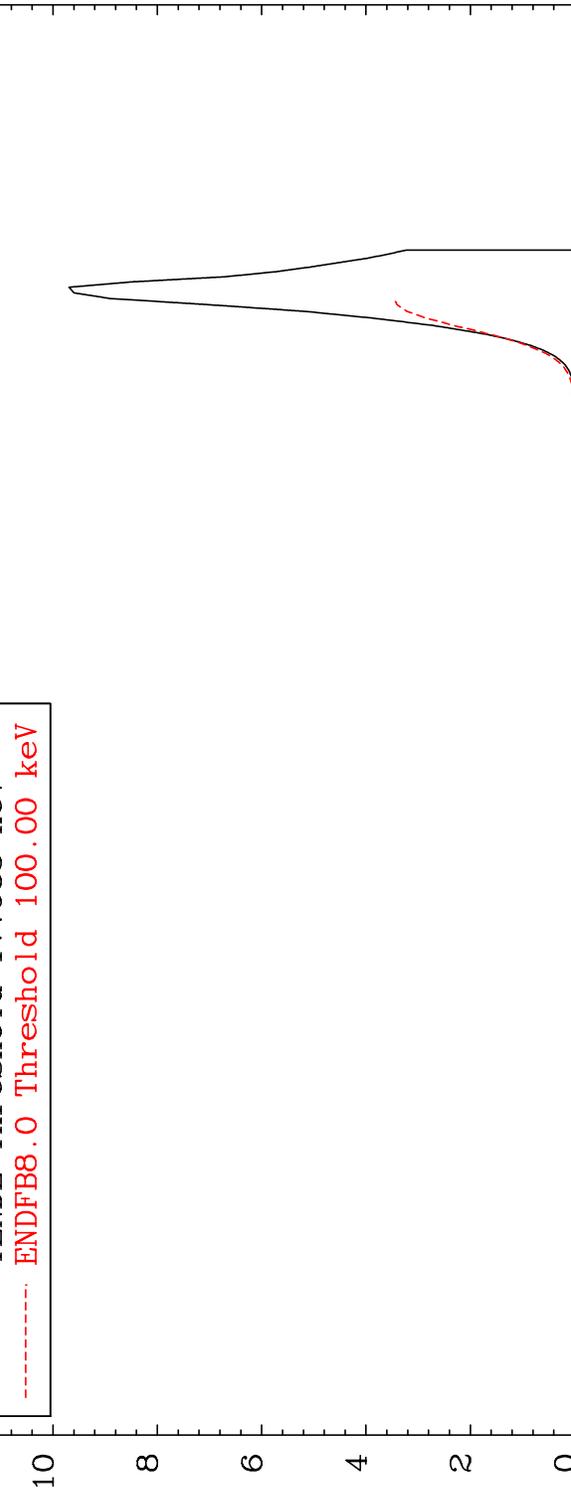
Cross Section

Min Ratio

Max Ratio

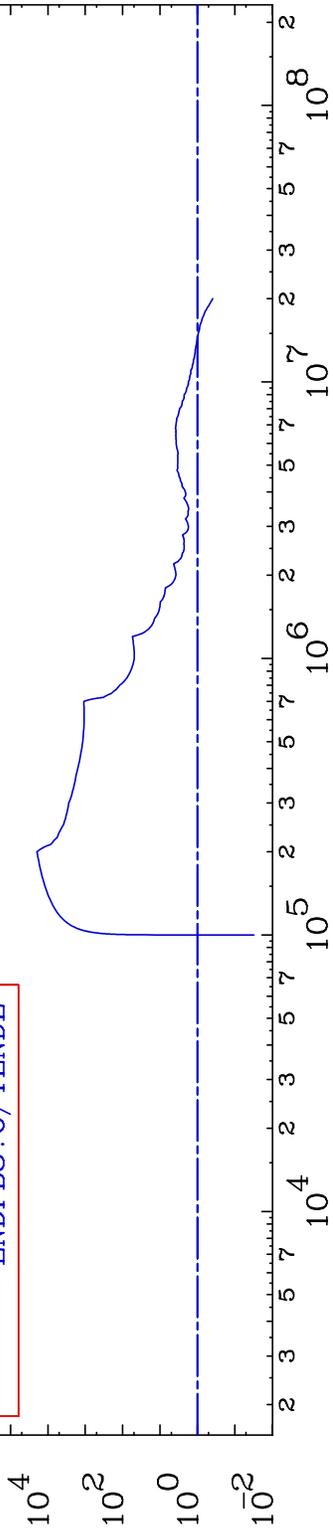
TENDL Threshold 1.7983 keV
ENDFB8.0 Threshold 100.00 keV

Cross Section (milli-barns)



ENDFB8.0/TENDL

Ratio



19

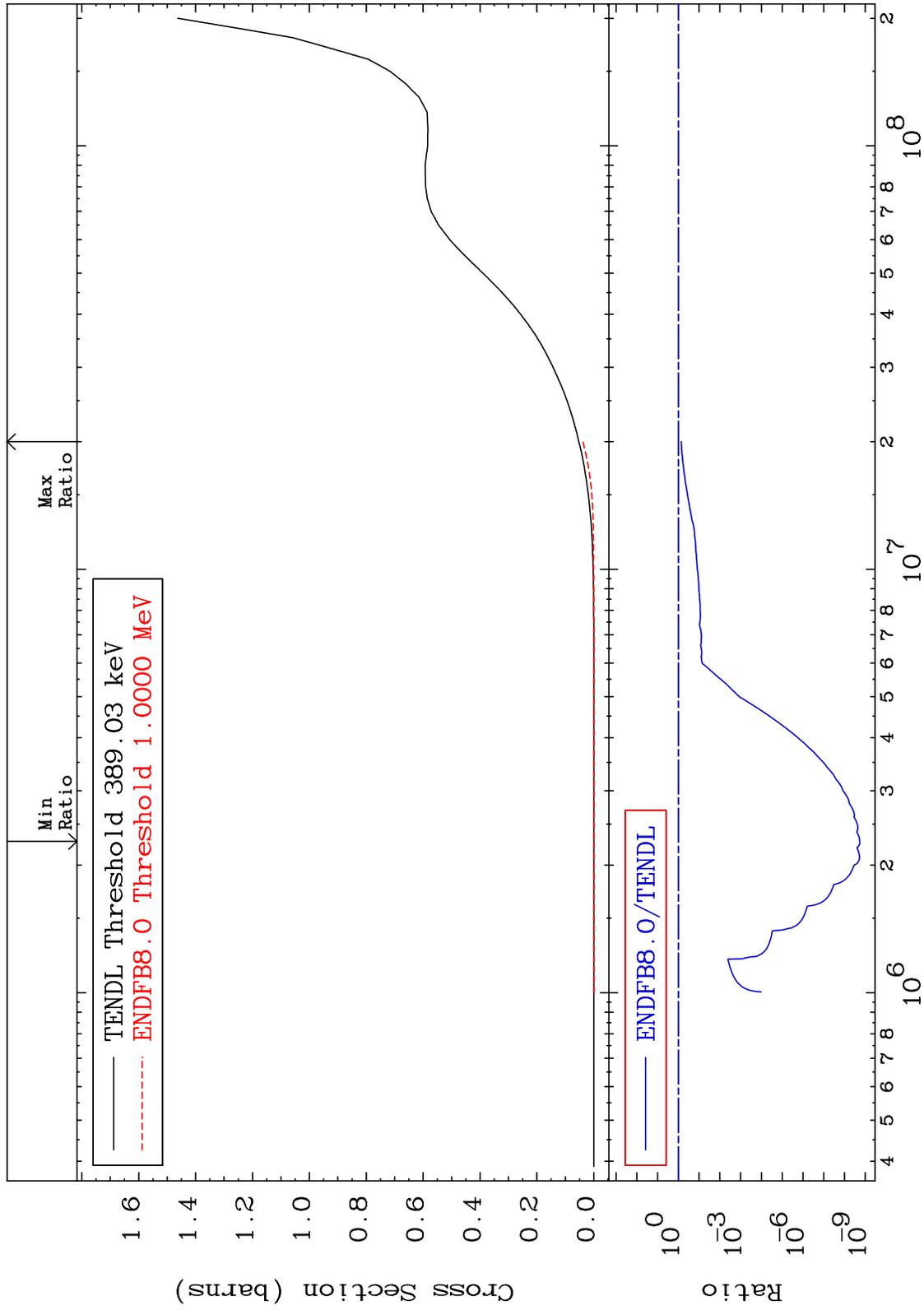
Incident Energy (eV)

55-Cs-135

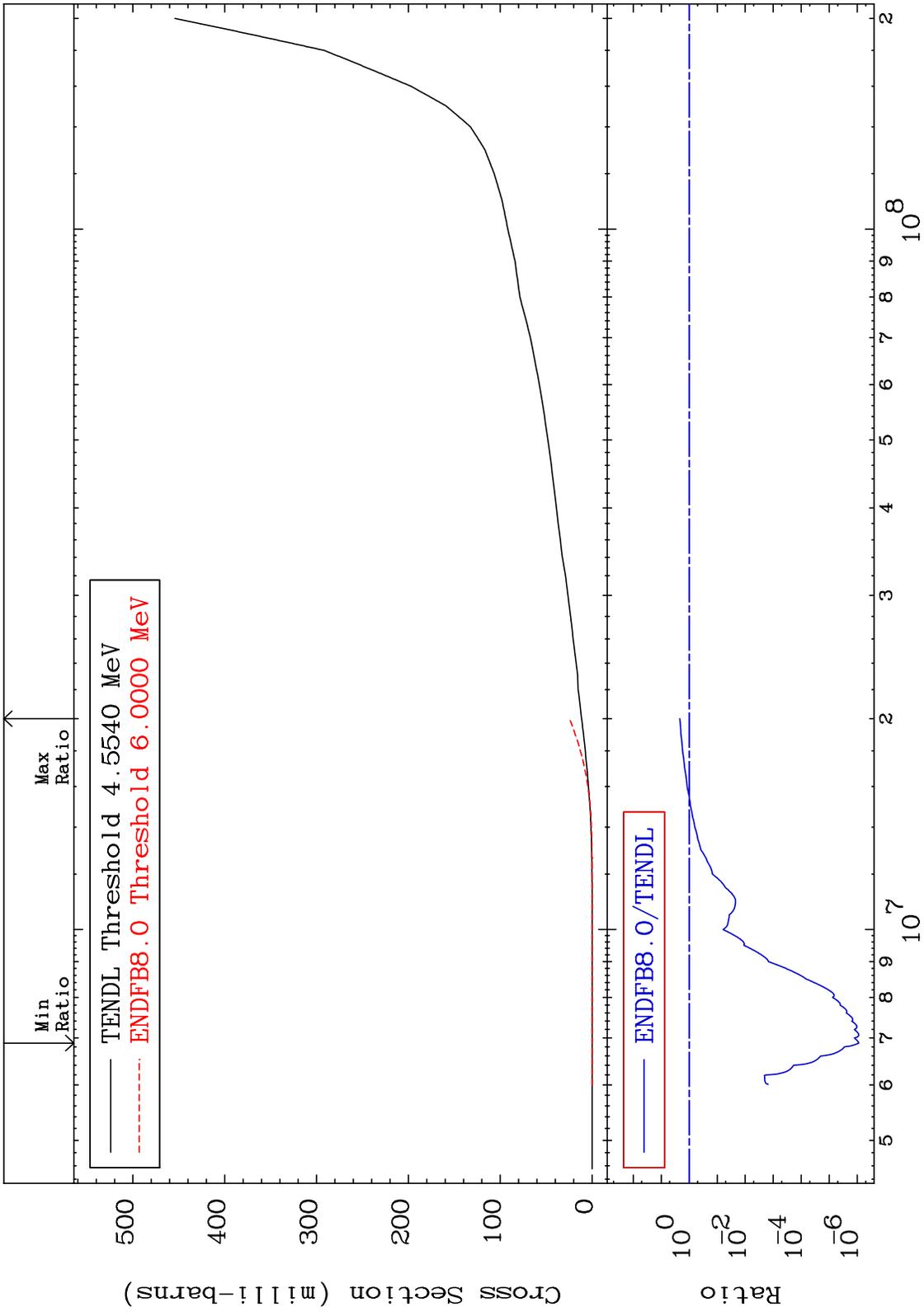
MAT 5531

Hydrogen Production
Cross Section

55-Cs-135
-100.0 To -27.21%



MAT 5531 Deuterium Production Cross Section 55-Cs-135 -100.0 To 118.3 %

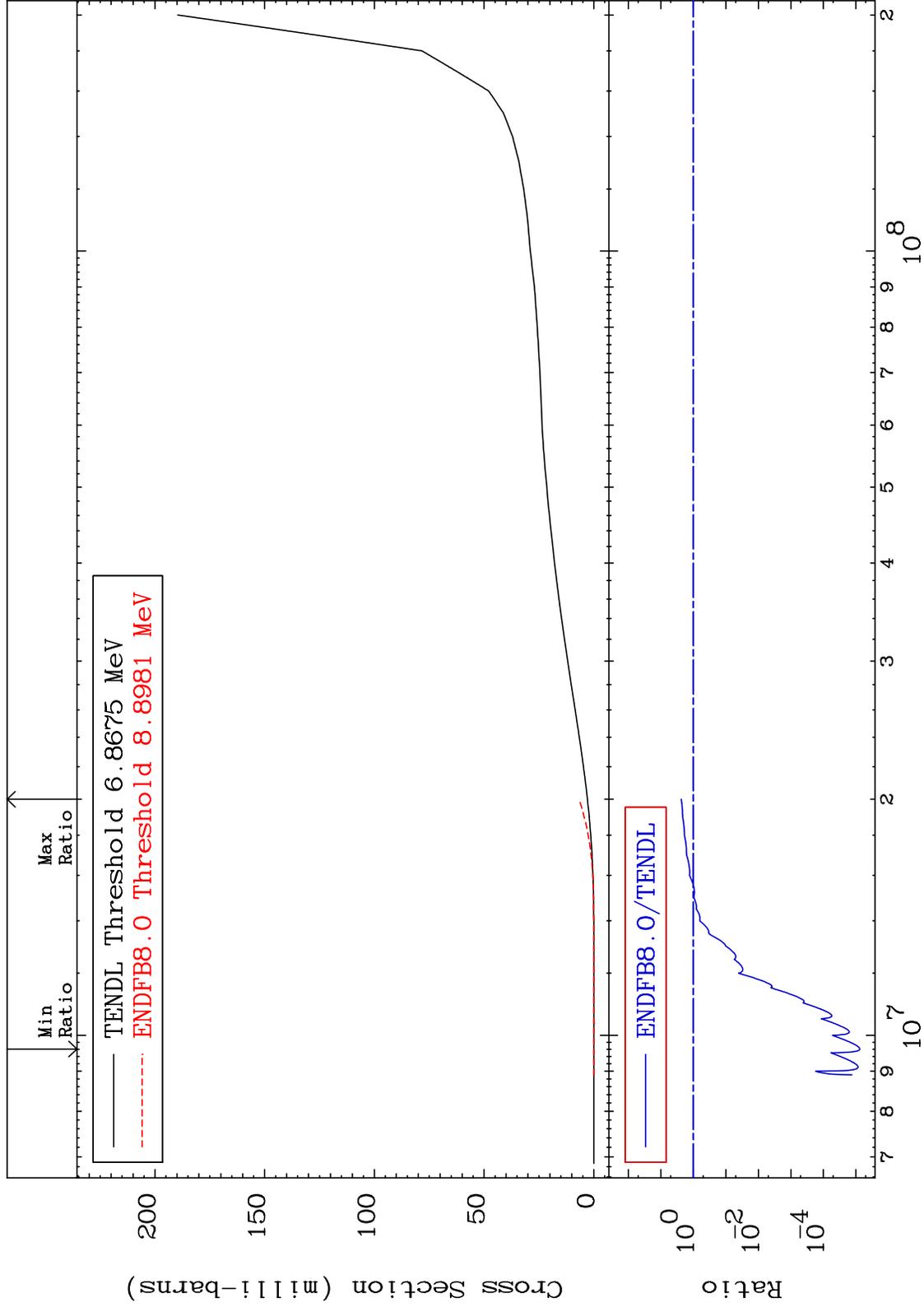


21 55-Cs-135 Incident Energy (eV)

MAT 5531

Tritium Production
Cross Section

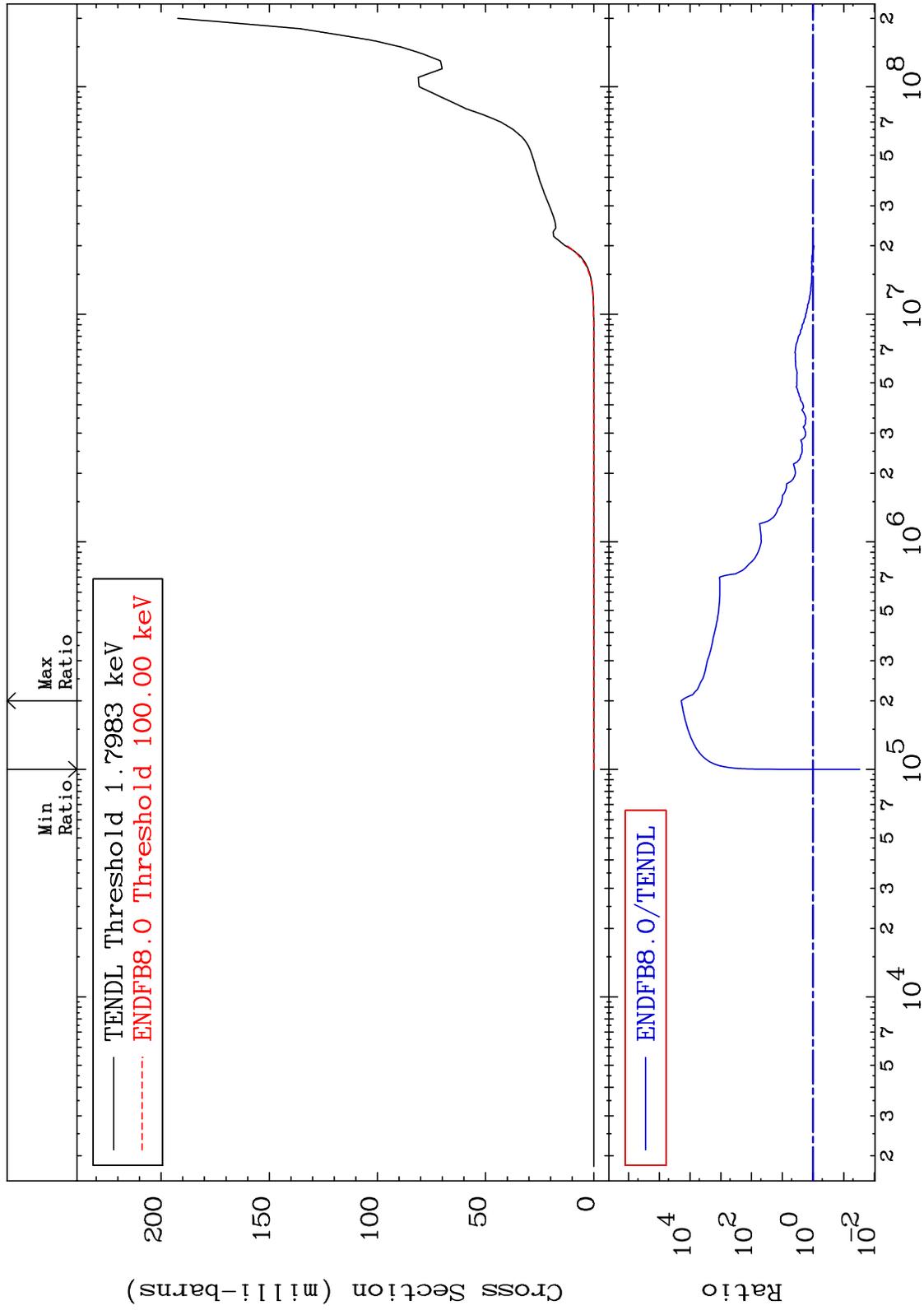
55-Cs-135
-100.0 To 136.4 %



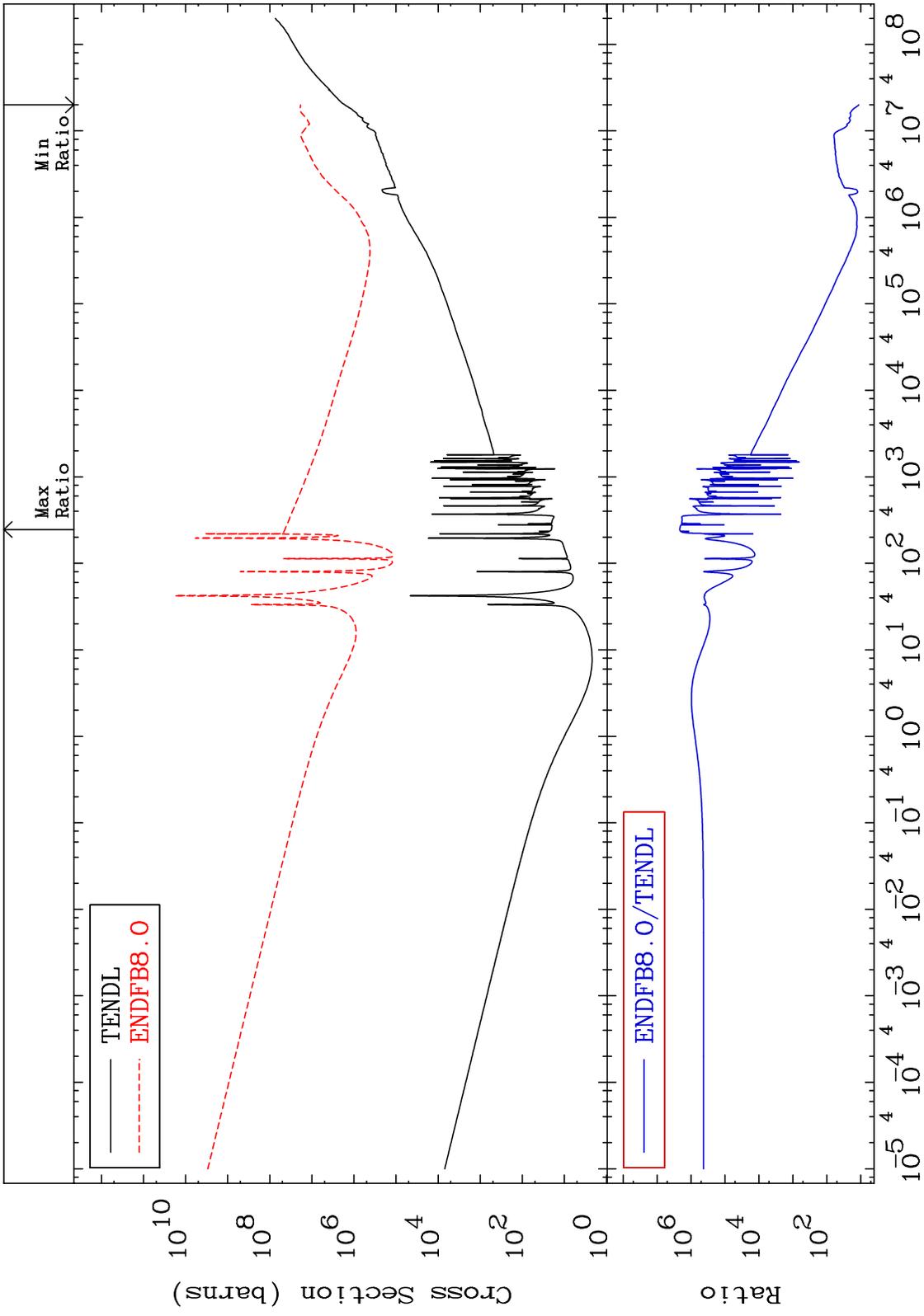
MAT 5531

He-4 Production
Cross Section

55-Cs-135
-97.00 To 9999. %



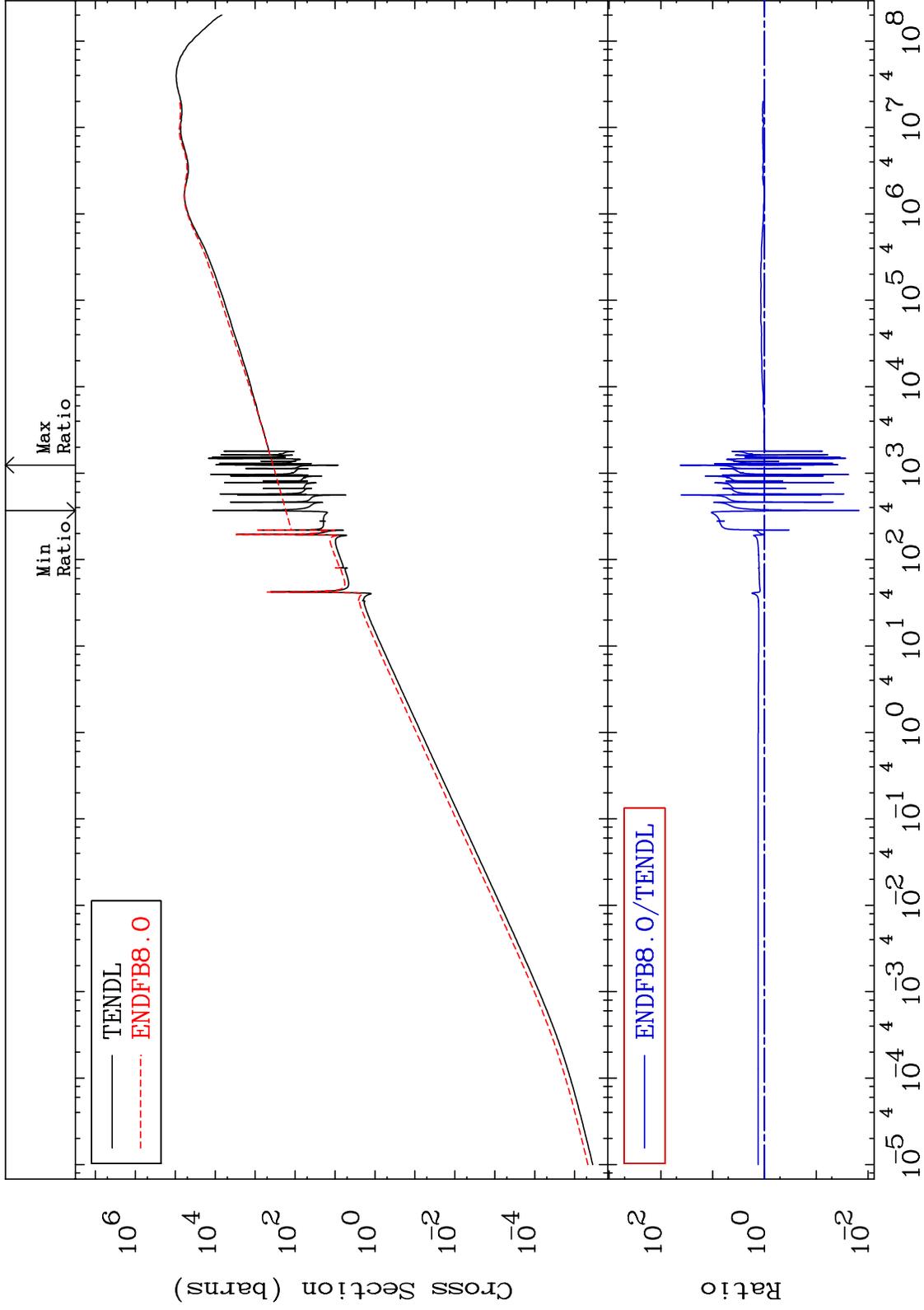
MAT 5531 Kerma total (eV-barns) 55-Cs-135
 Cross Section 1035. To 9999. %



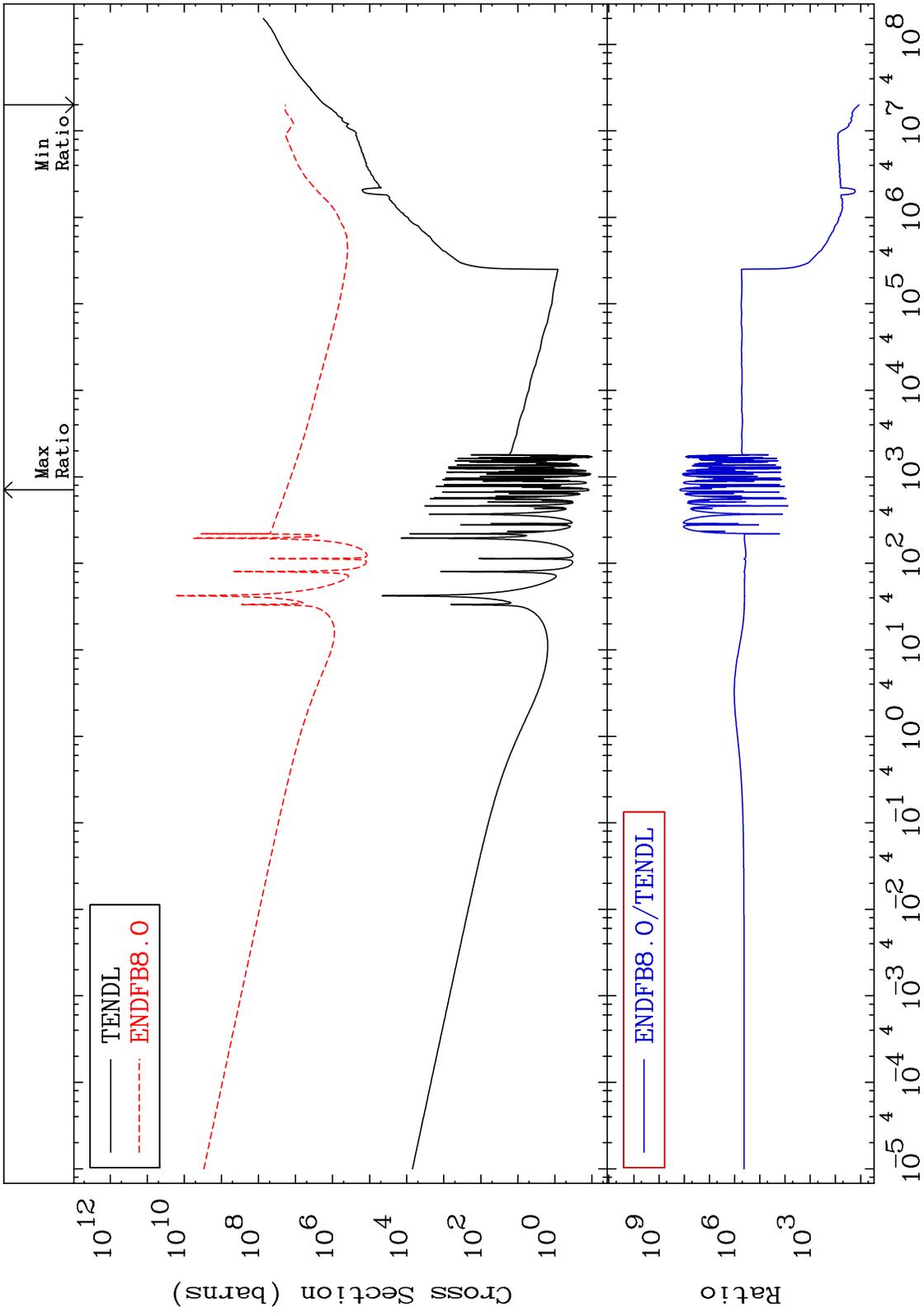
MAT 5531

Kerma elastic
Cross Section

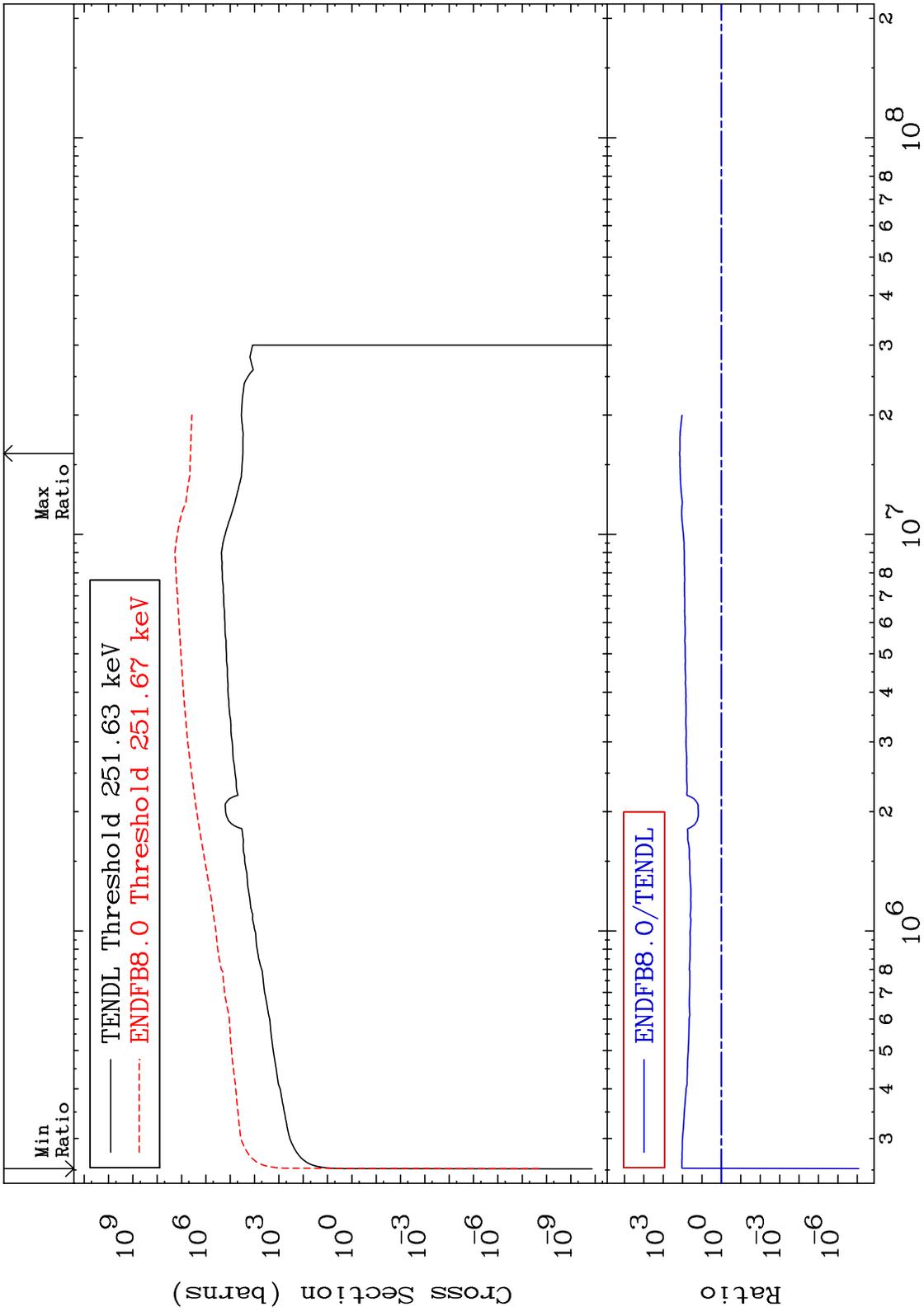
55-Cs-135
-98.50 To 4132. %



MAT 5531 Kerma non-elastic (all but mt2) 55-Cs-135
 Cross Section 1083. To 9999. %



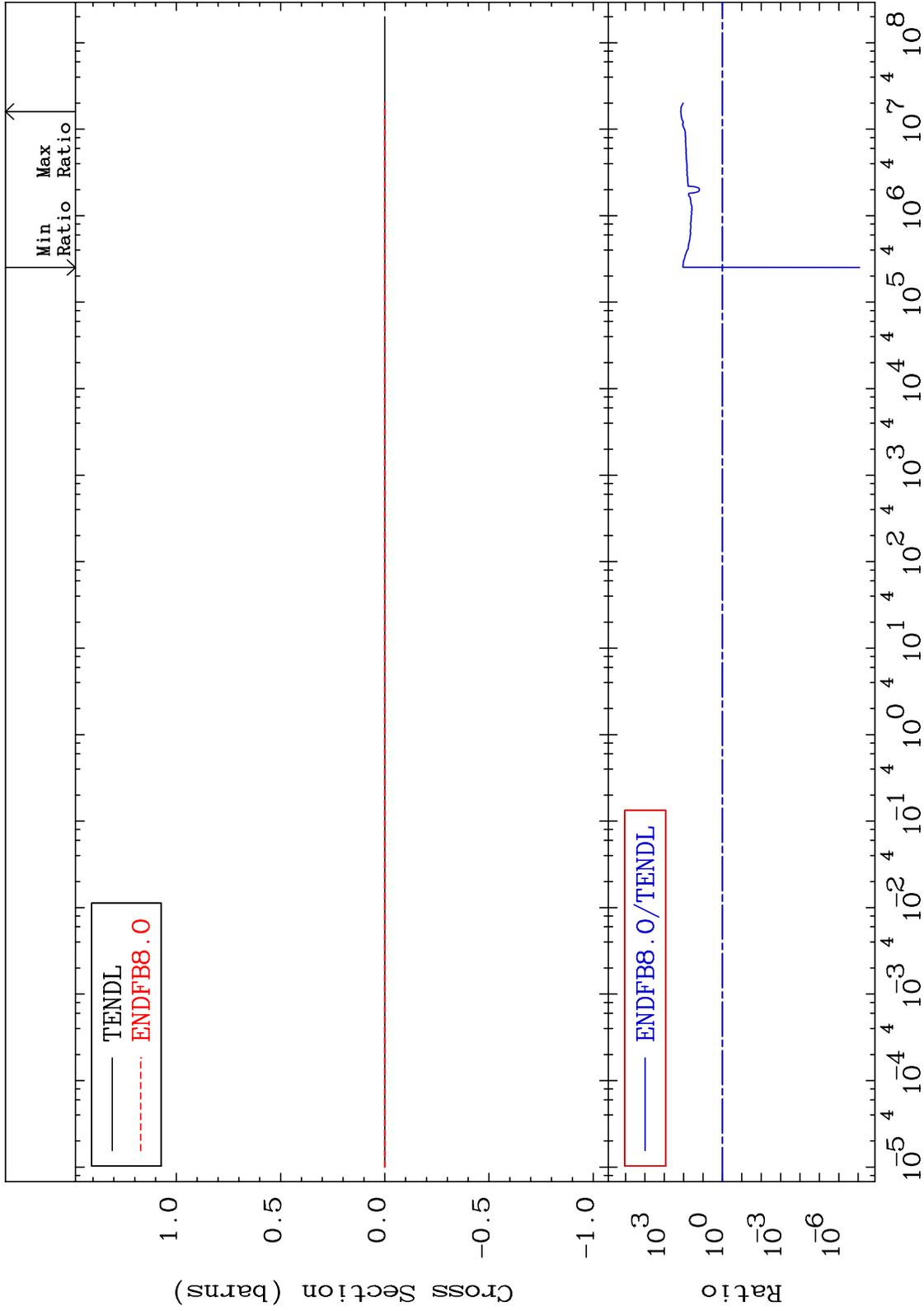
MAT 5531 Kerma inelastic (mt51-91) 55-Cs-135
 -100.0 To 9999. %



MAT 5531

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

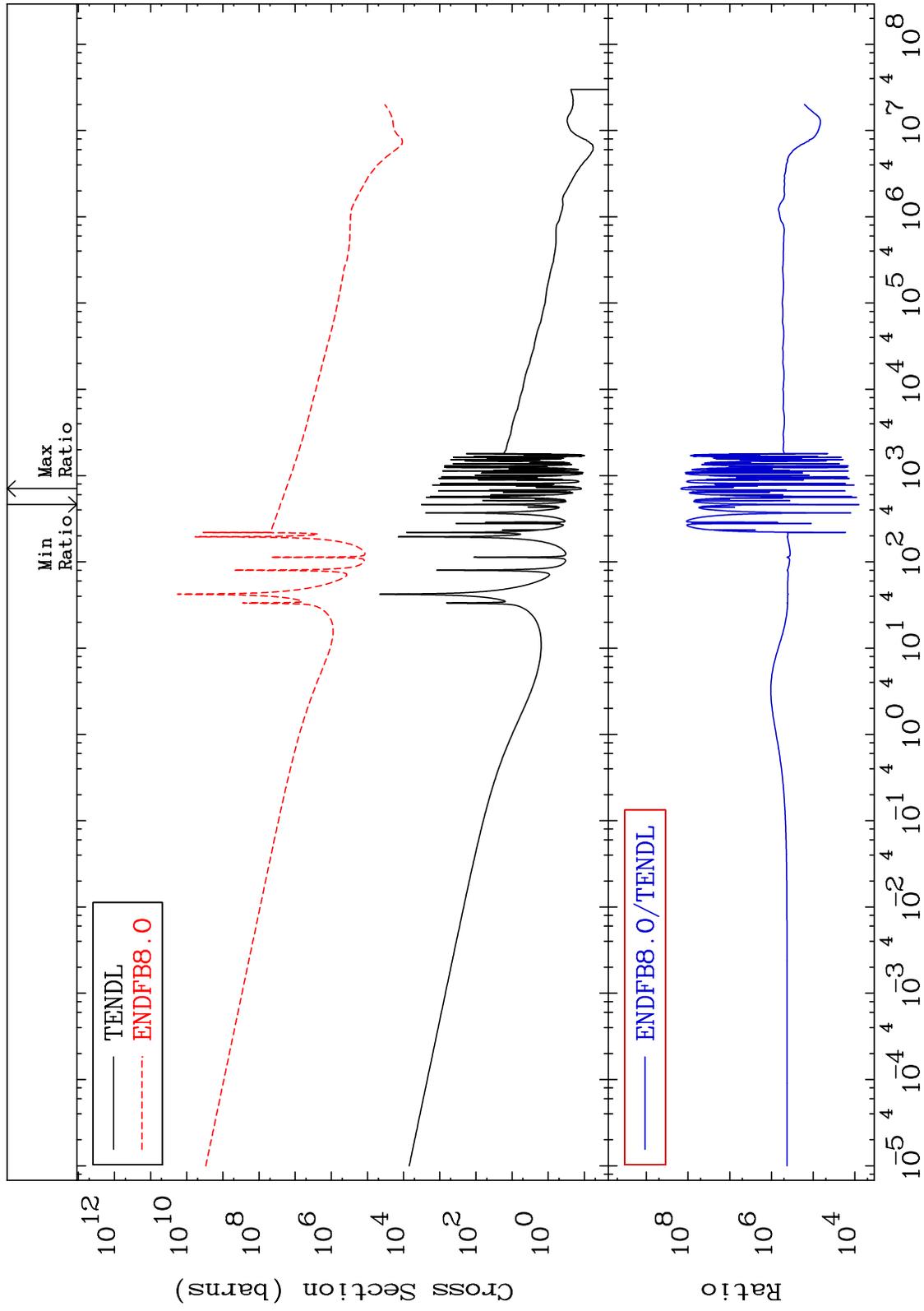
55-Cs-135
-100.0 To 9999. %



MAT 5531

Kerma capture (mt102)
Cross Section

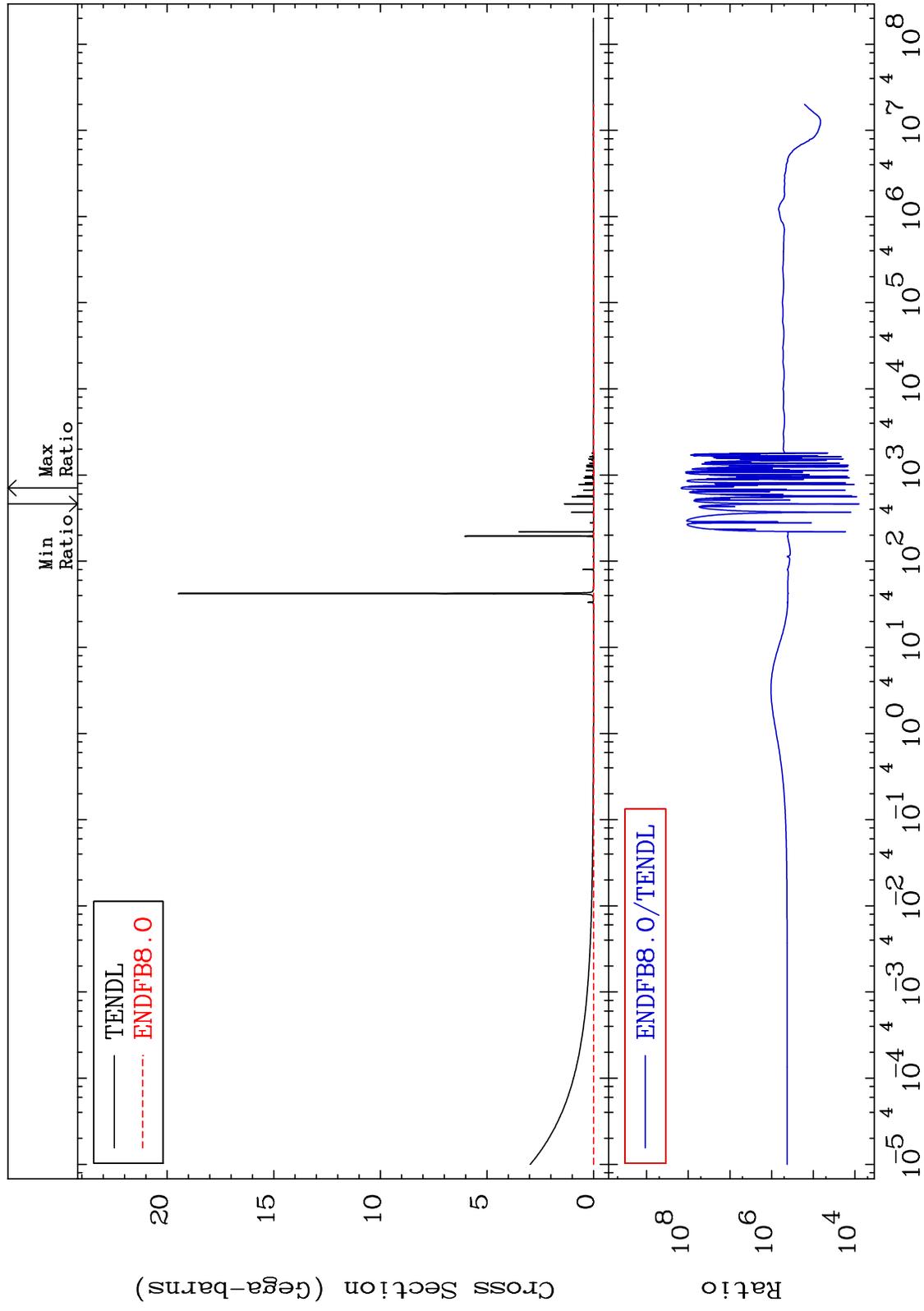
55-Cs-135
9999. To 9999. %



MAT 5531

Total photon (eV-barns)
Cross Section

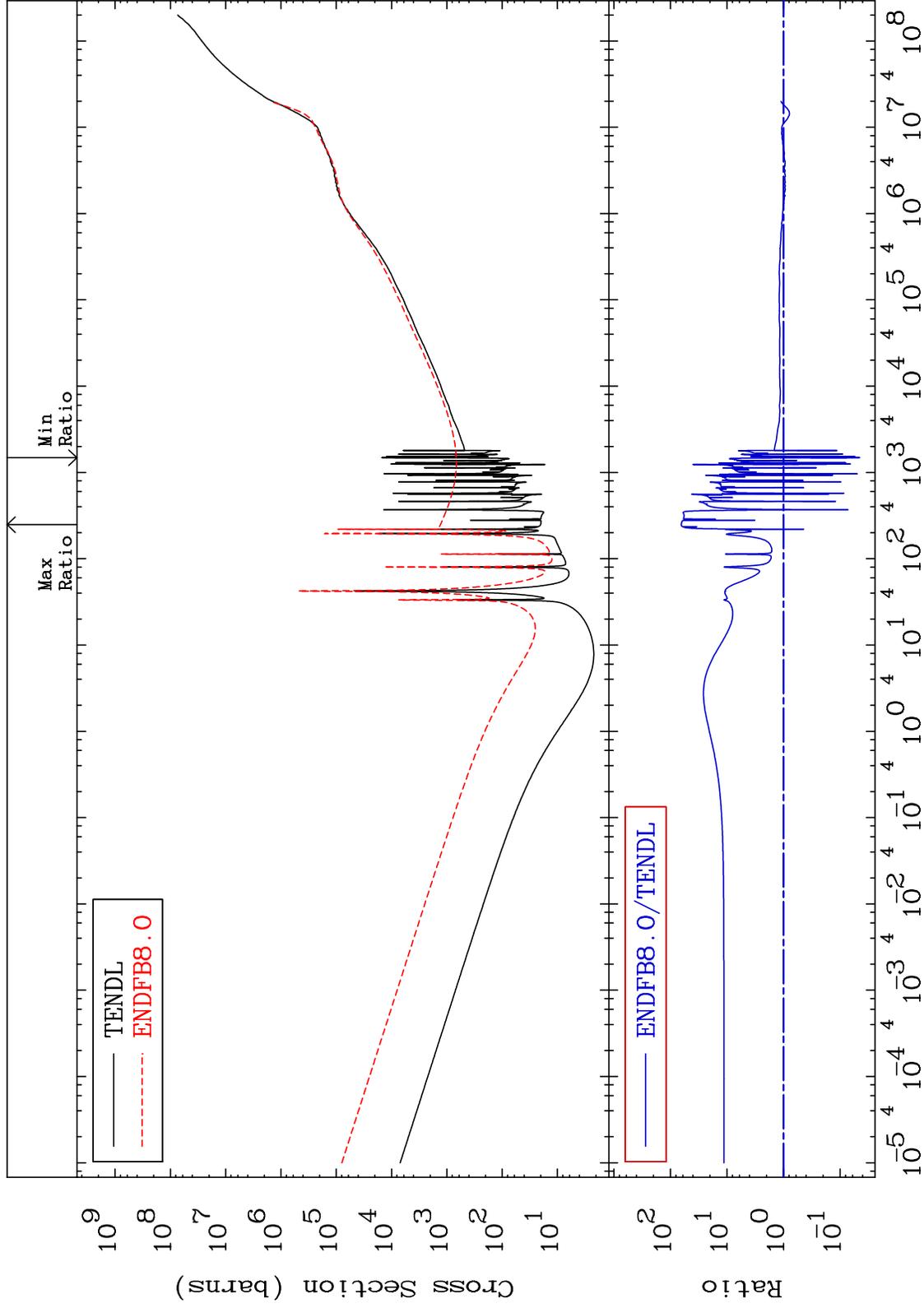
55-Cs-135
9999. To 9999. %



MAT 5531

Total kinematic kerma (high limit)
Cross Section

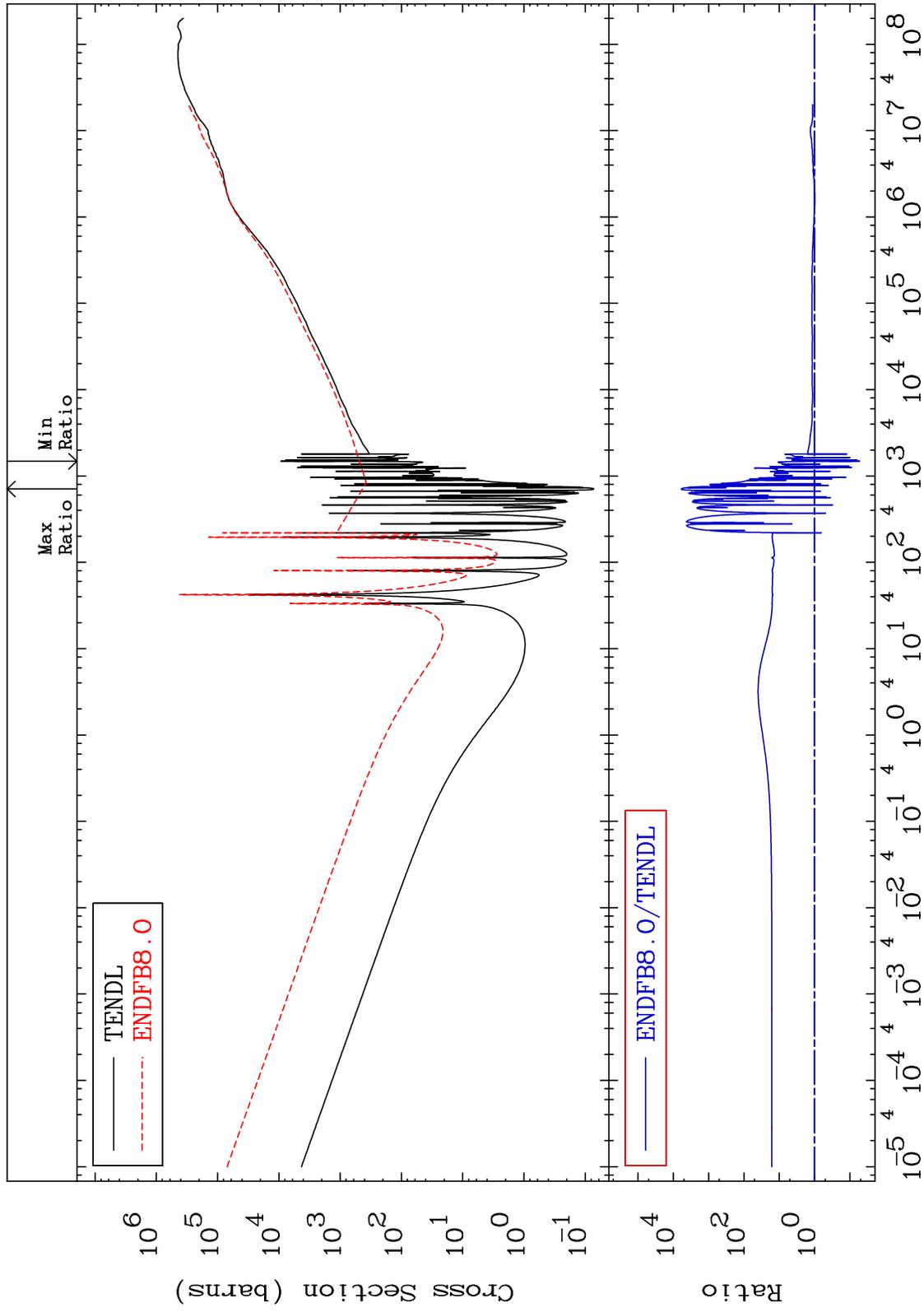
55-Cs-135
-95.52 To 6344. %



MAT 5531

Dpa total (eV-barns)
Cross Section

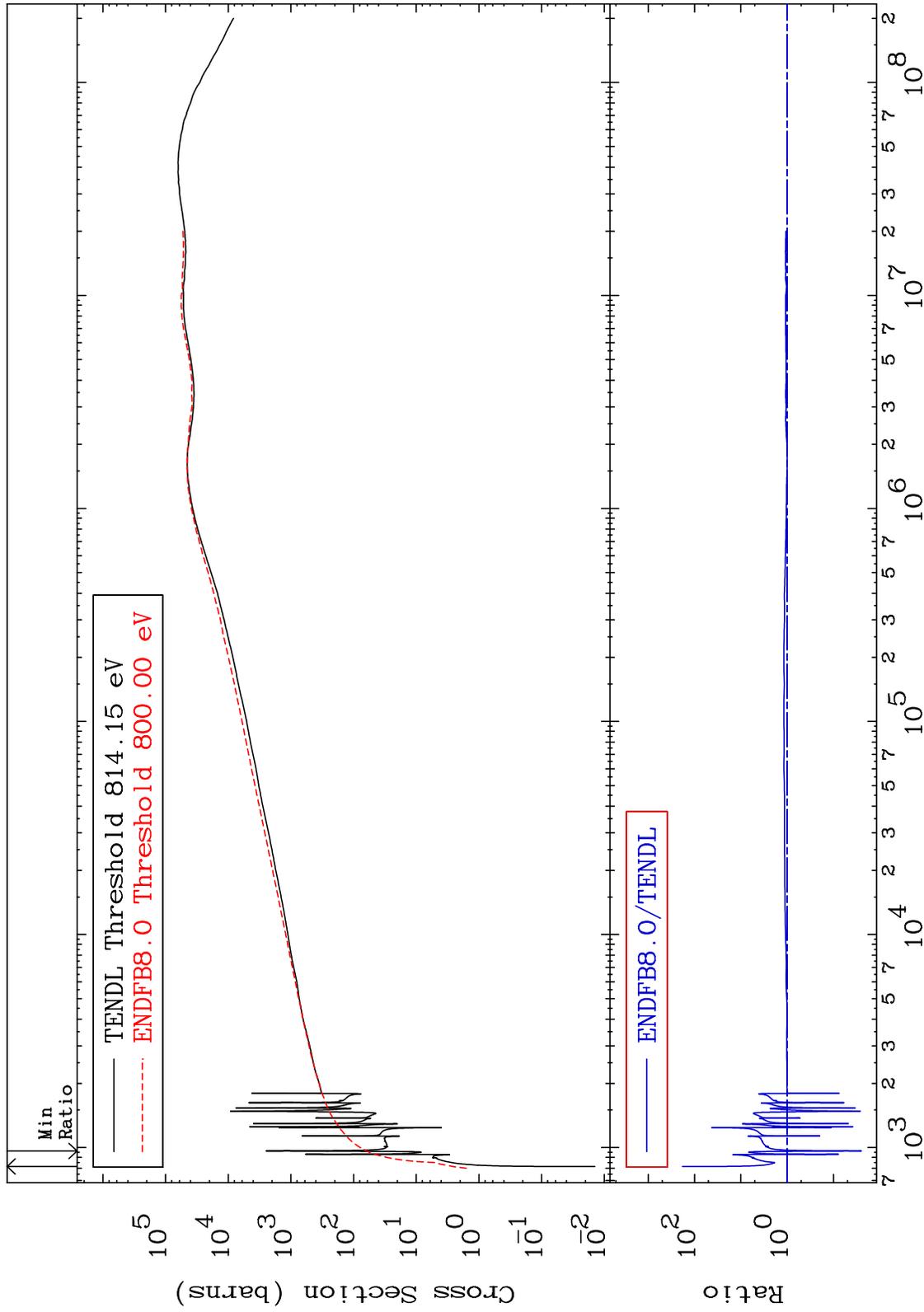
55-Cs-135
-94.73 To 9999. %



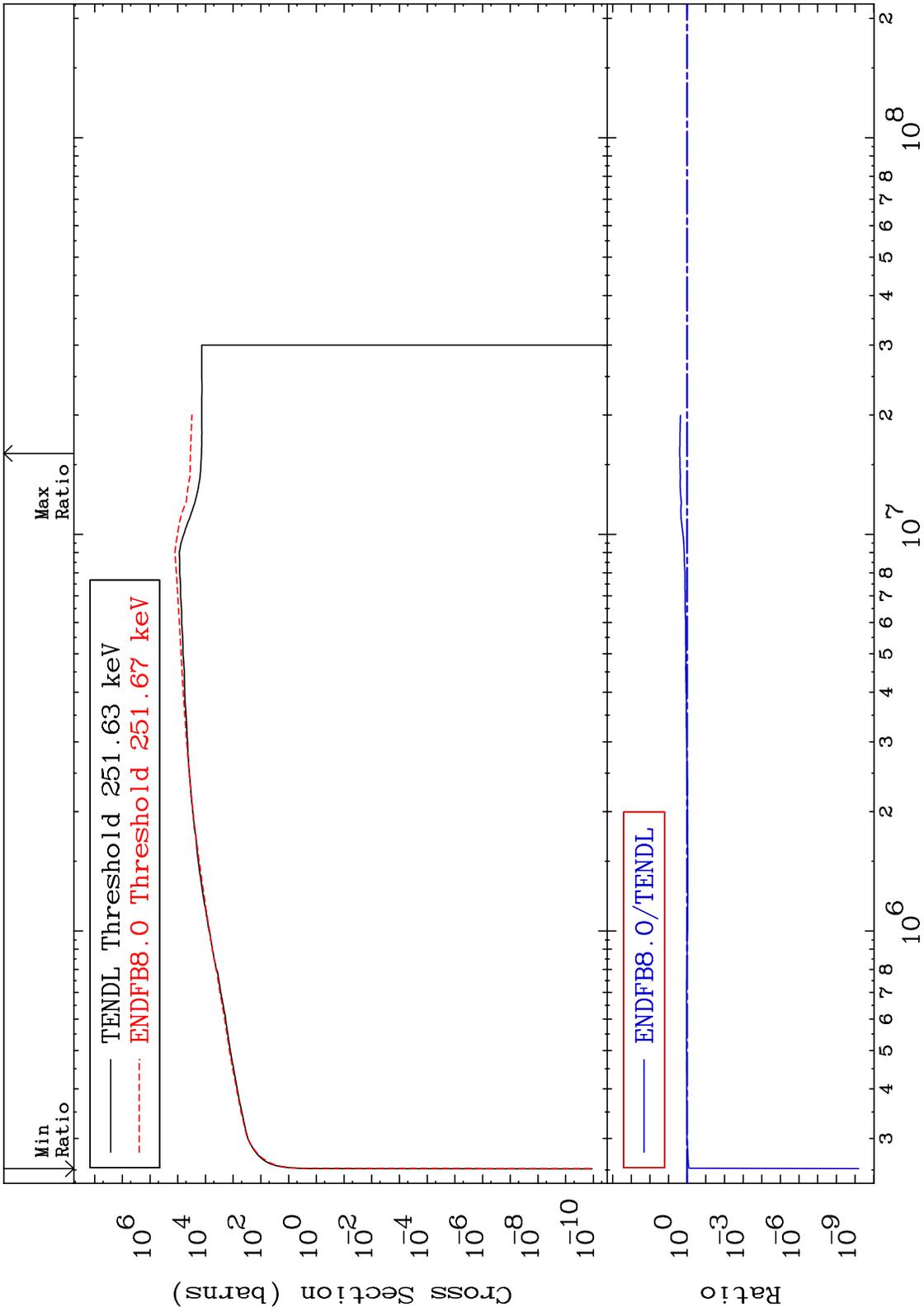
MAT 5531

Dpa elastic (mt2)
Cross Section

55-Cs-135
-97.50 To 9999. %



MAT 5531 Dpa inelastic (mt51-91) 55-Cs-135
 -100.0 To 149.9 %



MAT 5531

Dpa disappearance (mt102 -120)
Cross Section

55-Cs-135
-68.84 To 9999. %

