

Program Complot
(Version 2018-1)

by

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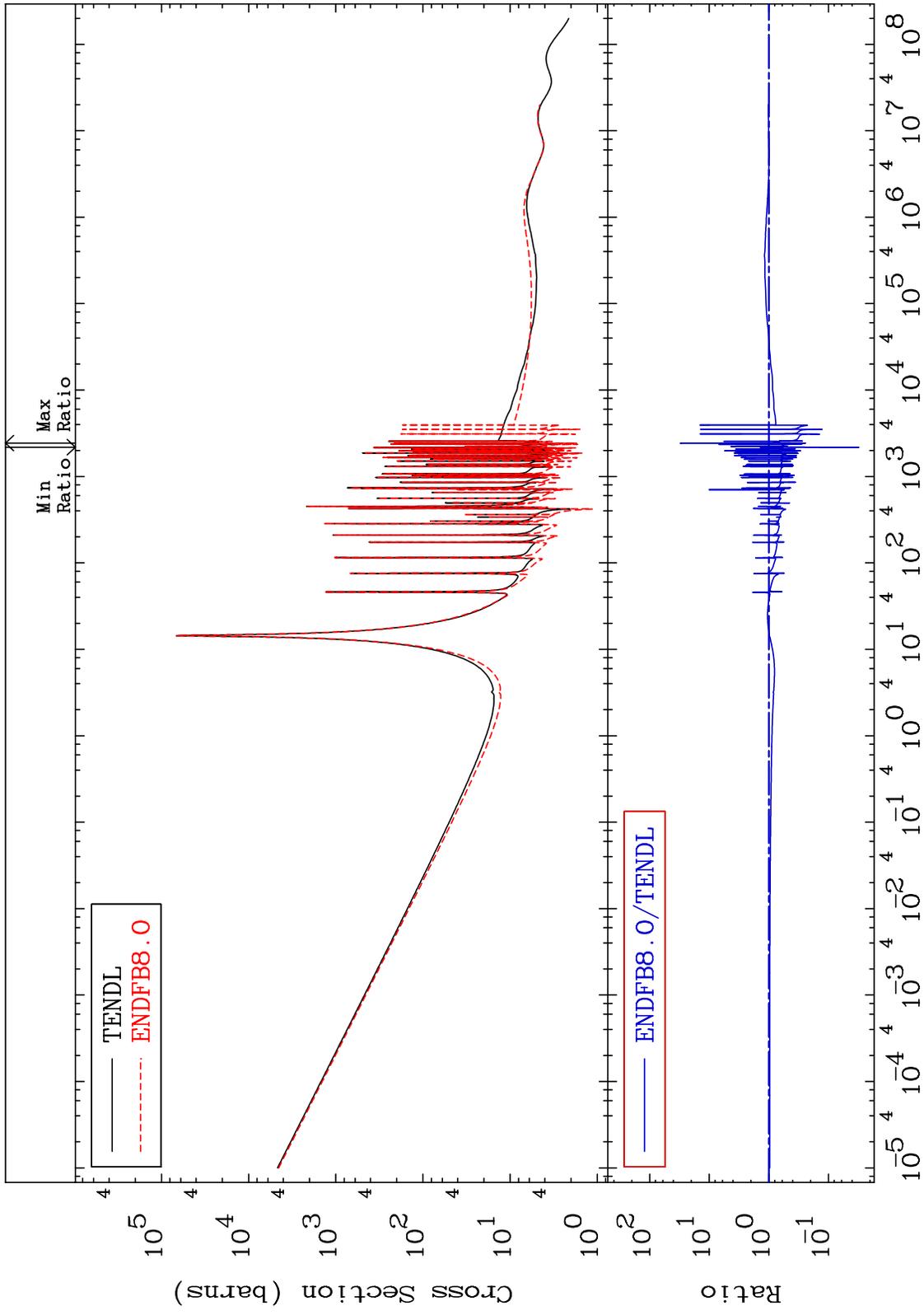
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5446

Total
Cross Section

54-Xe-131
-96.92 To 2977. %

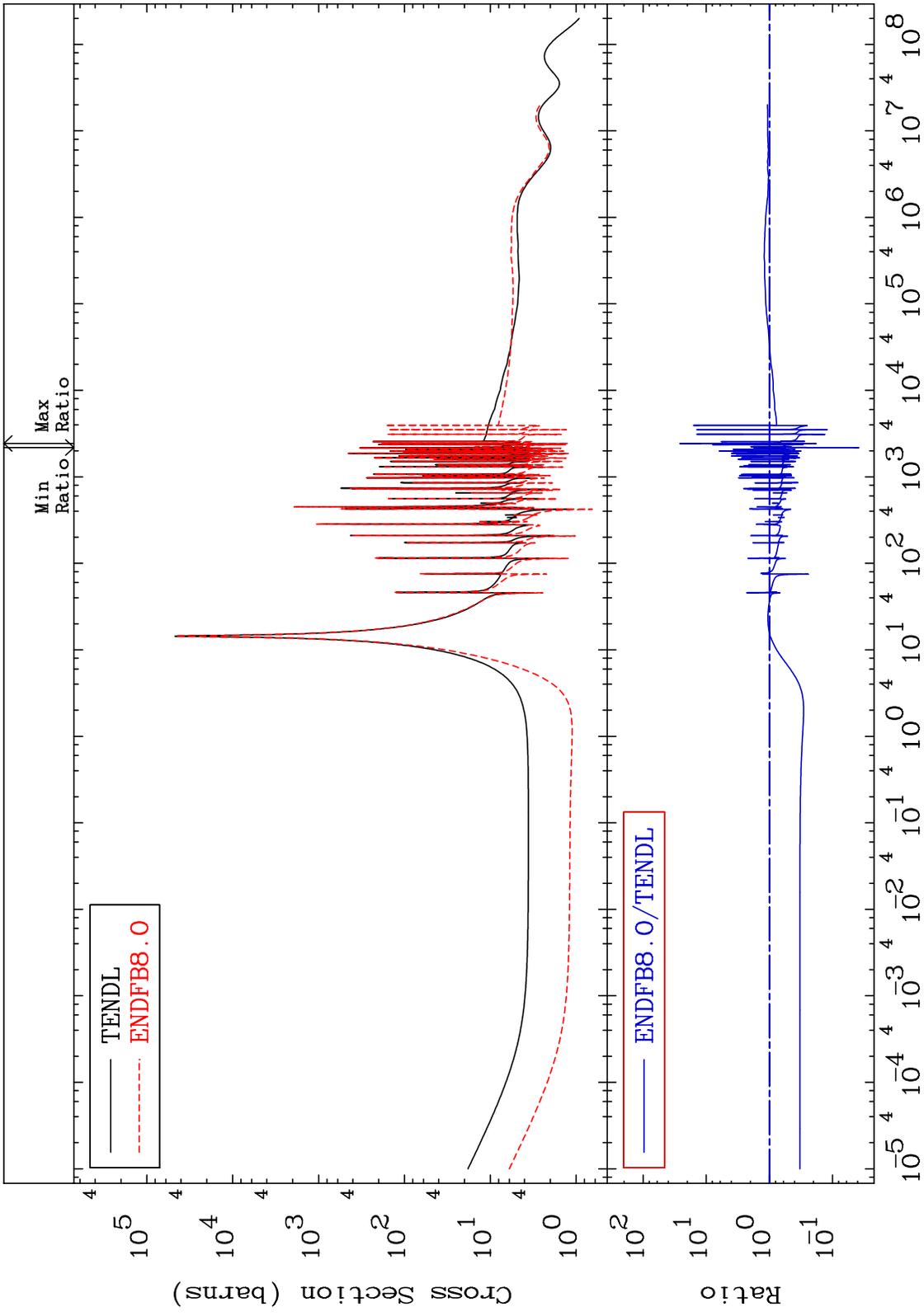


1

Incident Energy (eV)

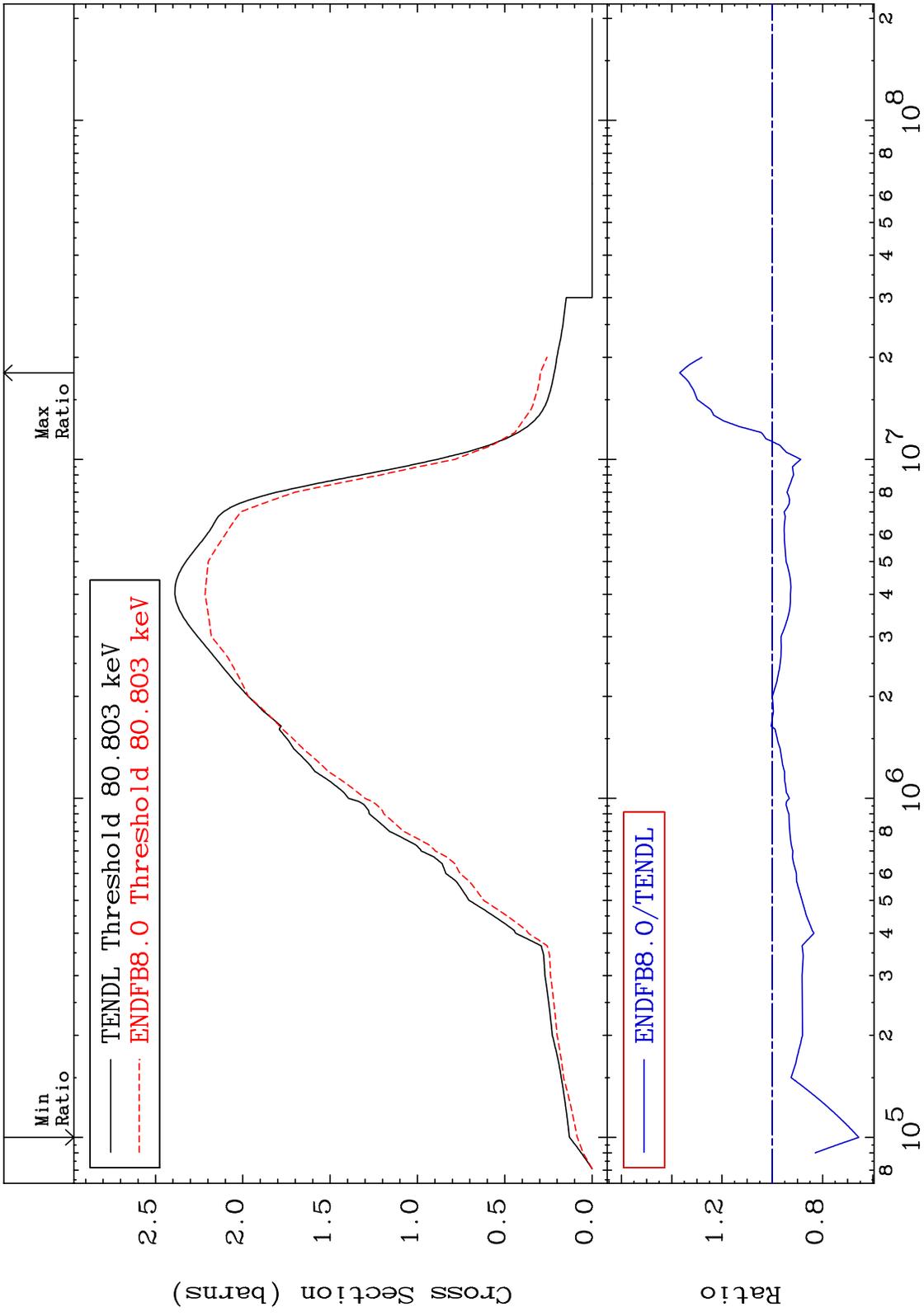
54-Xe-131

MAT 5446 Elastic Cross Section 54-Xe-131 -96.16 To 2528. %



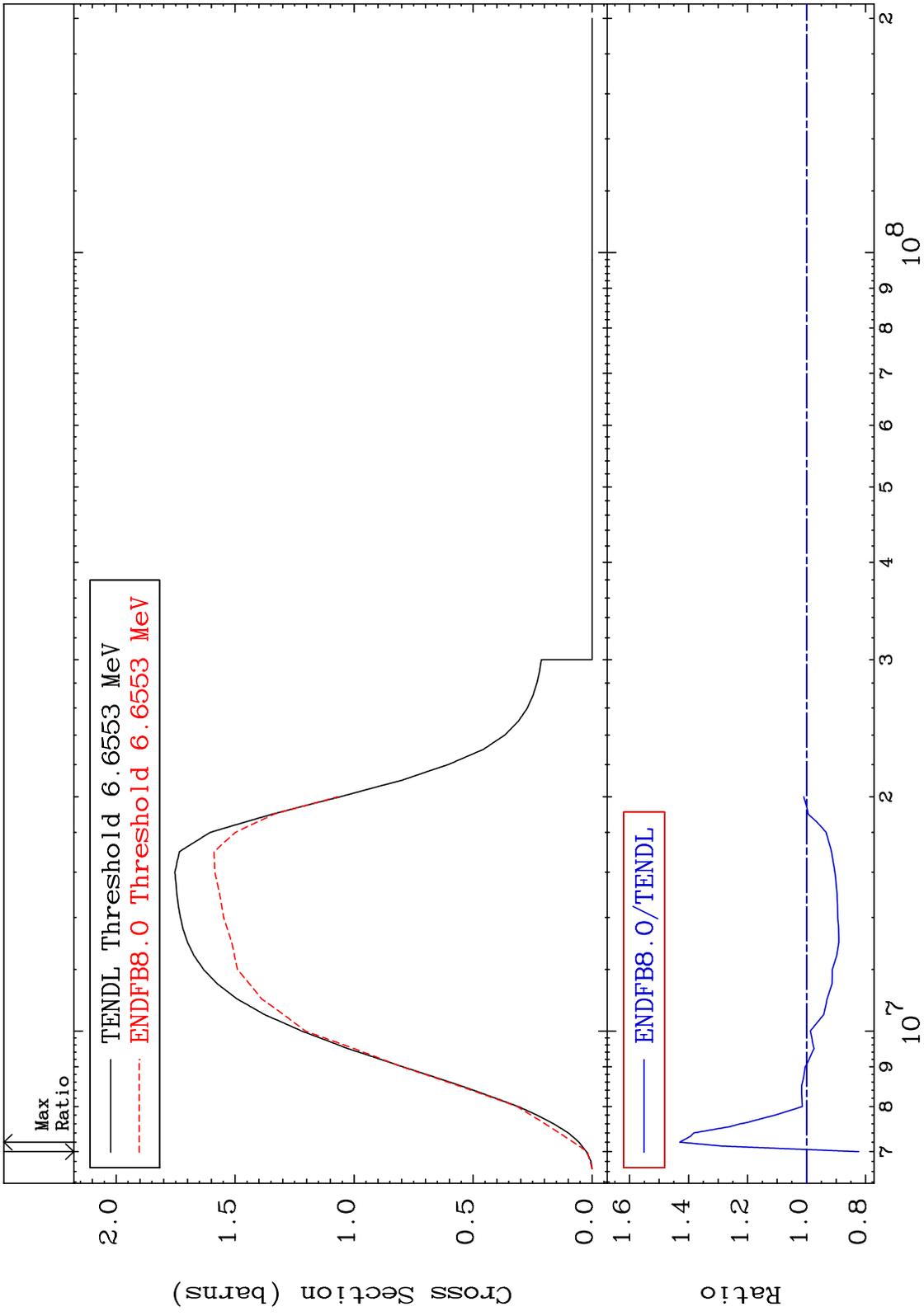
2 54-Xe-131 Incident Energy (eV)

MAT 5446 Inelastic Cross Section 54-Xe-131 -34.42 To 36.81 %

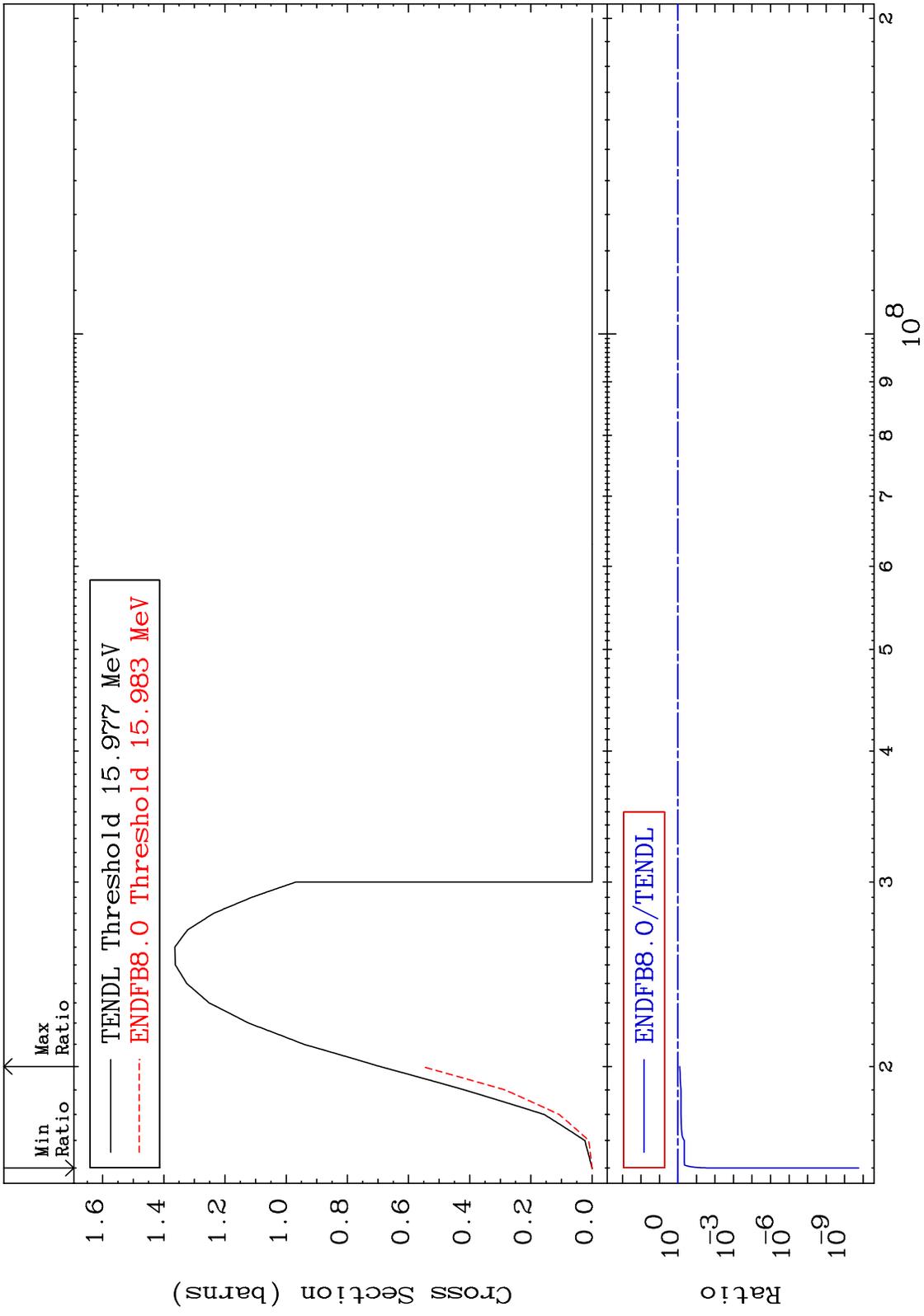


54-Xe-131

MAT 5446 (n,2n) Cross Section 54-Xe-131 -17.68 To 43.00 %



MAT 5446 (n,3n) Cross Section 54-Xe-131 -100.0 To -19.78%



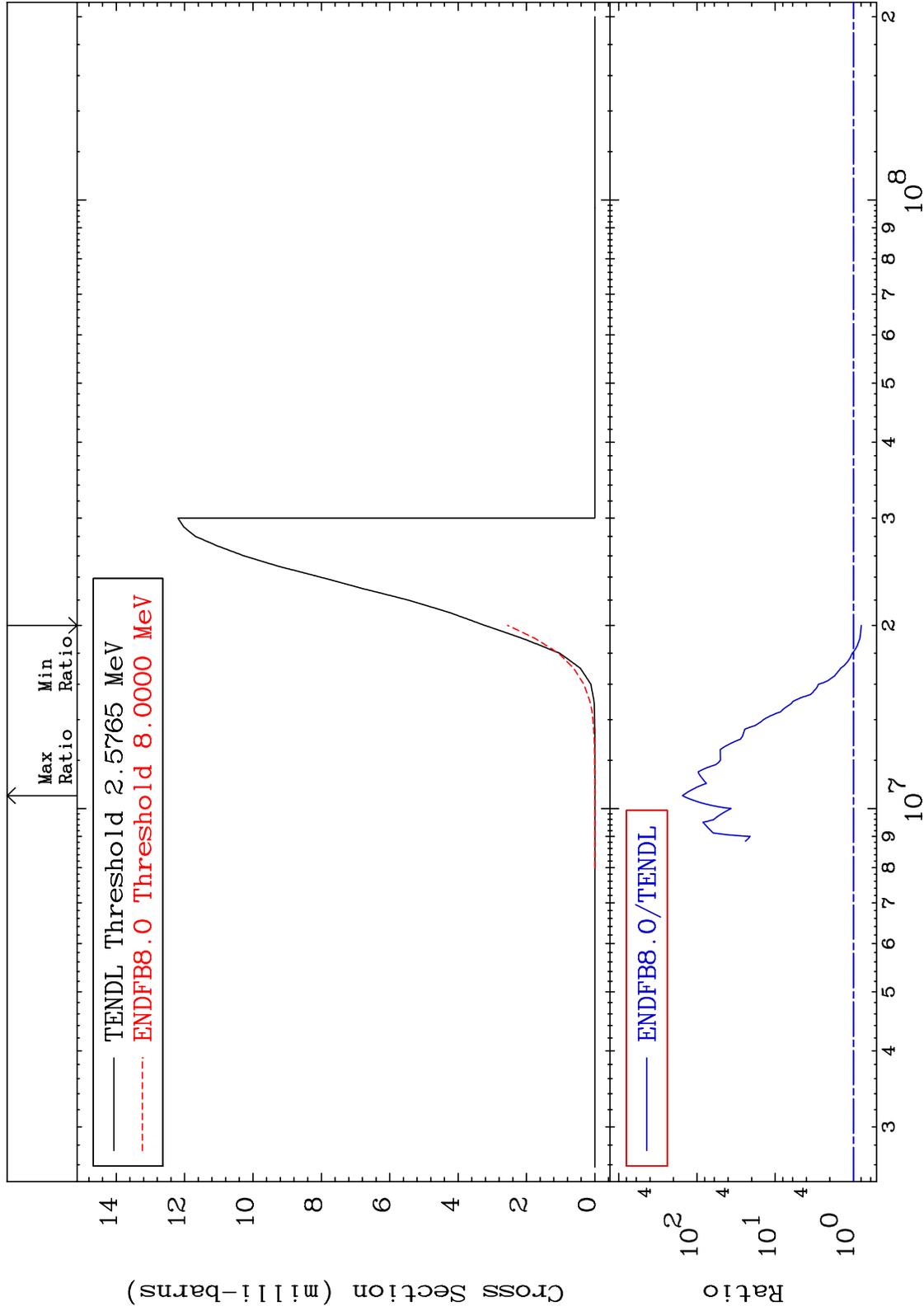
MAT 5446

(n,n') α

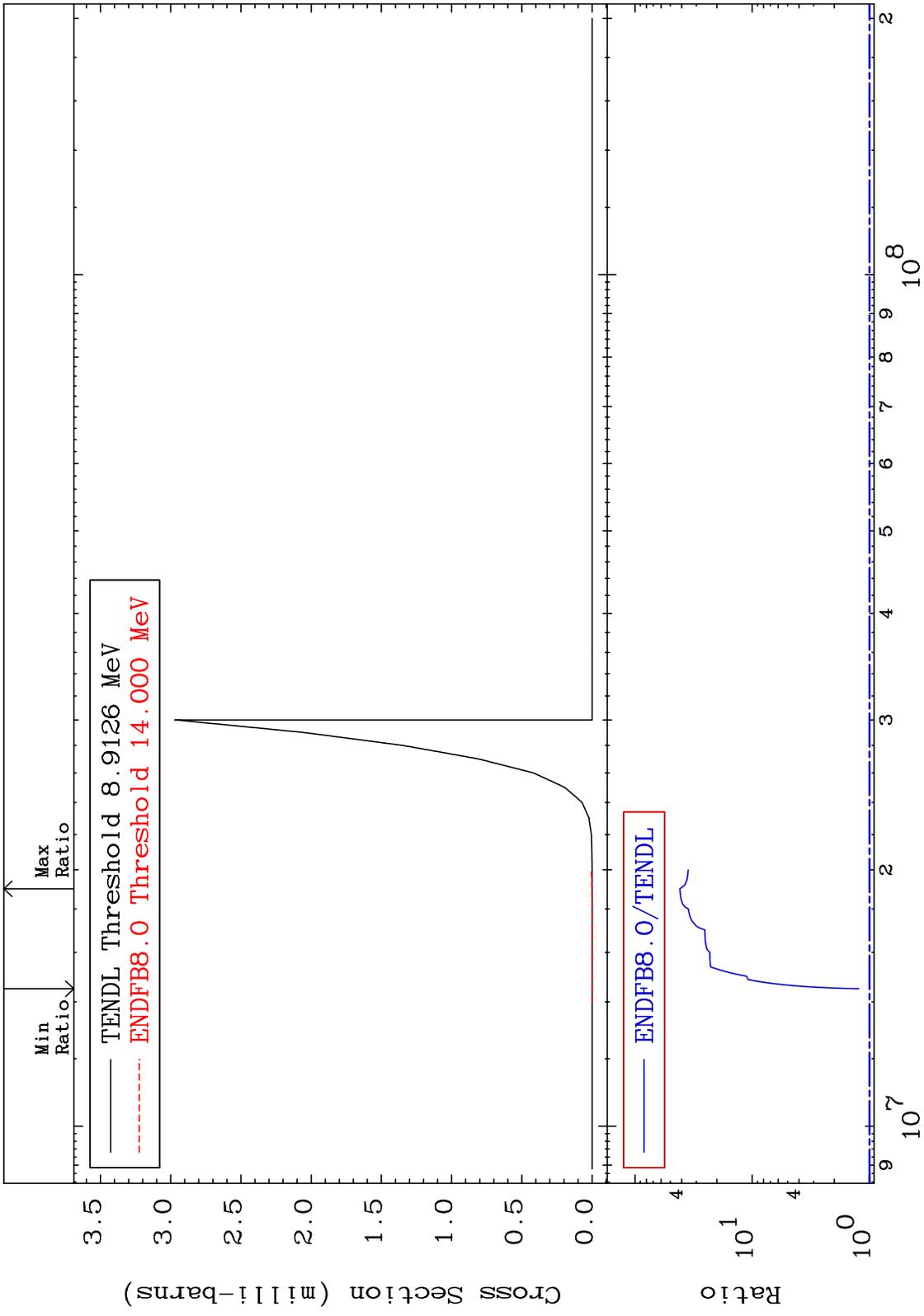
54-Xe-131

-20.84 To 9999. %

Cross Section

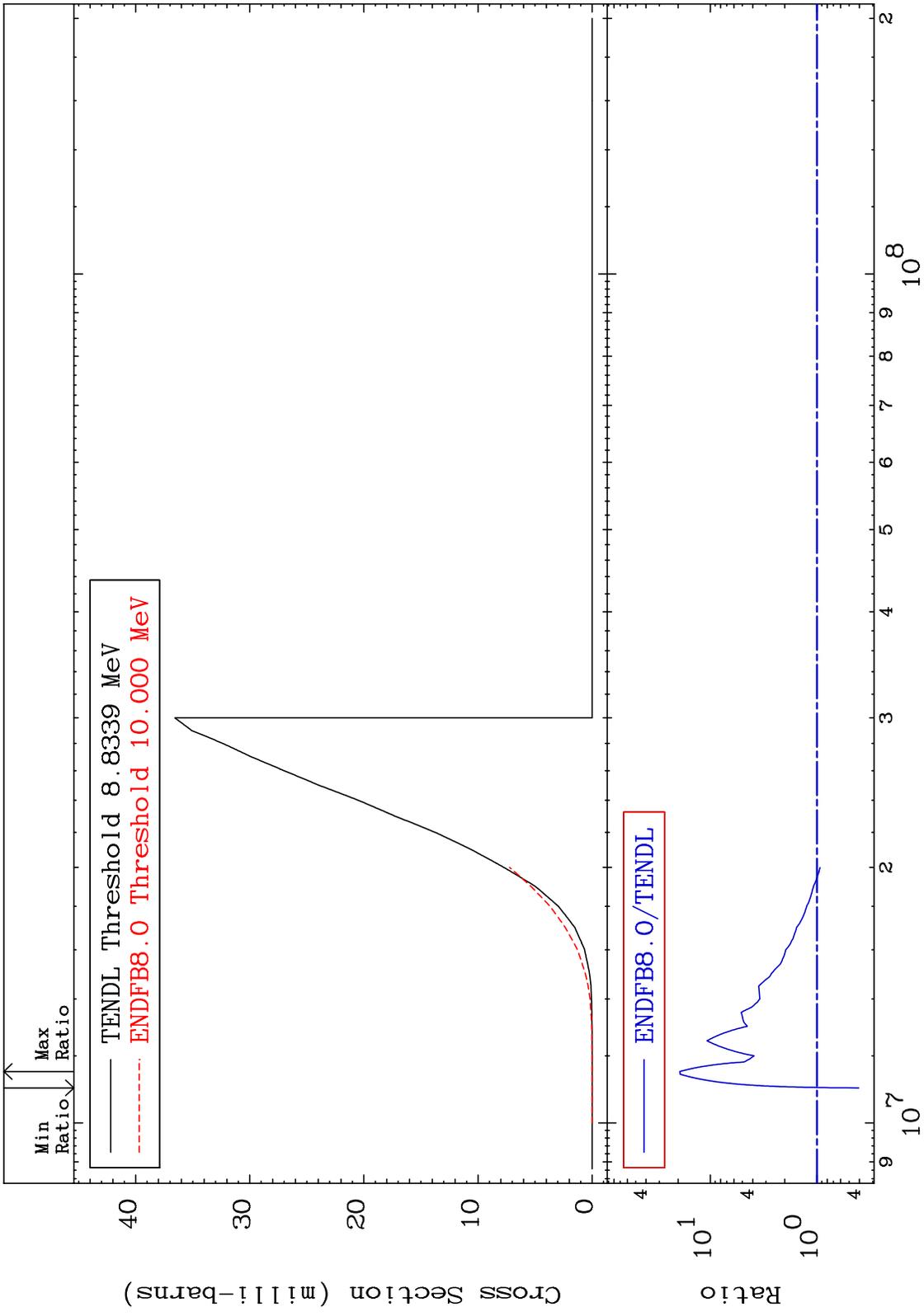


MAT 5446 (n,2n) α 54-Xe-131
 Cross Section 23.46 To 4051. %



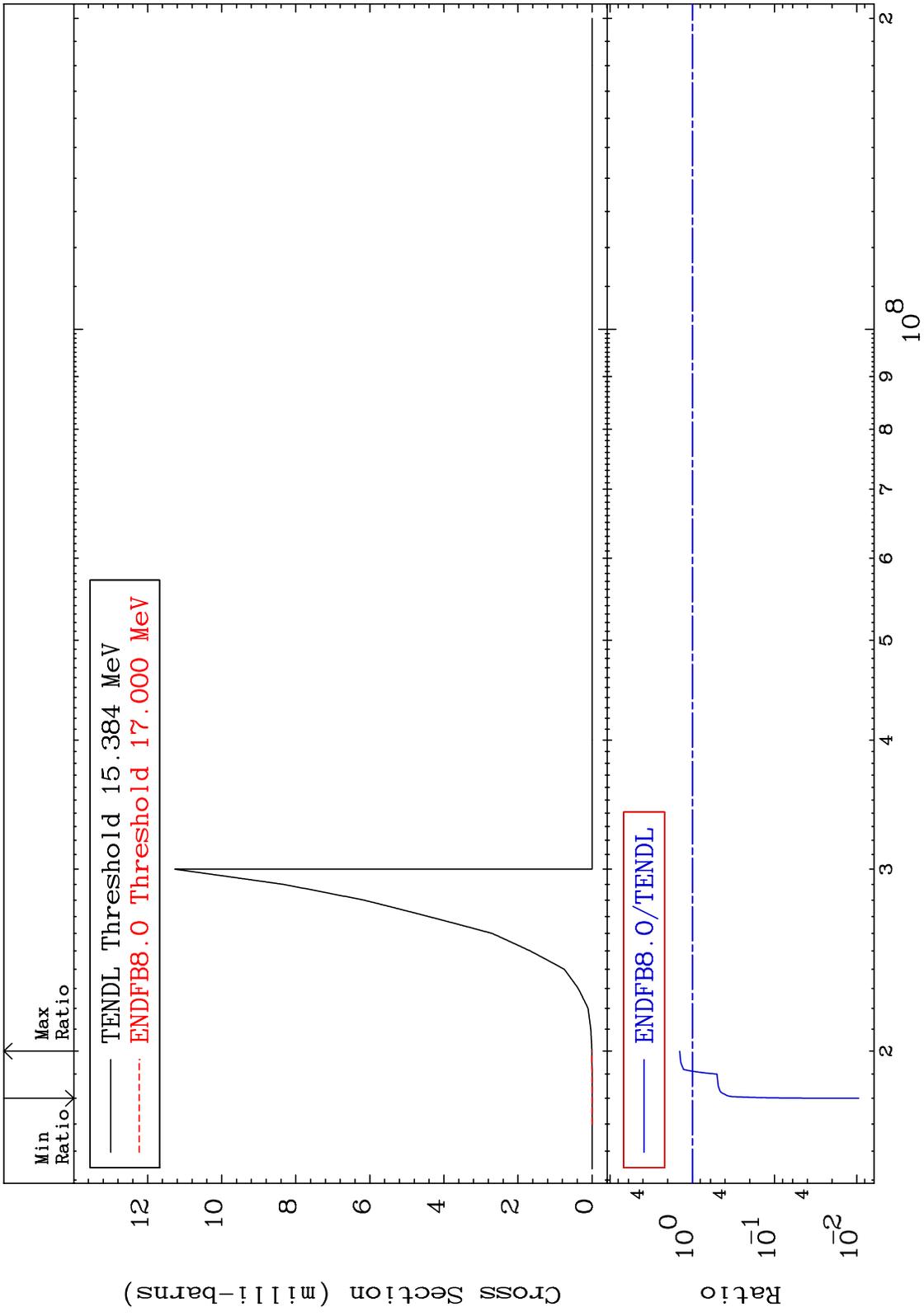
7 9 10⁷ 2 10⁸ 8 9 20 54-Xe-131

MAT 5446 (n,n') p 54-Xe-131
 Cross Section -59.51 To 1833. %

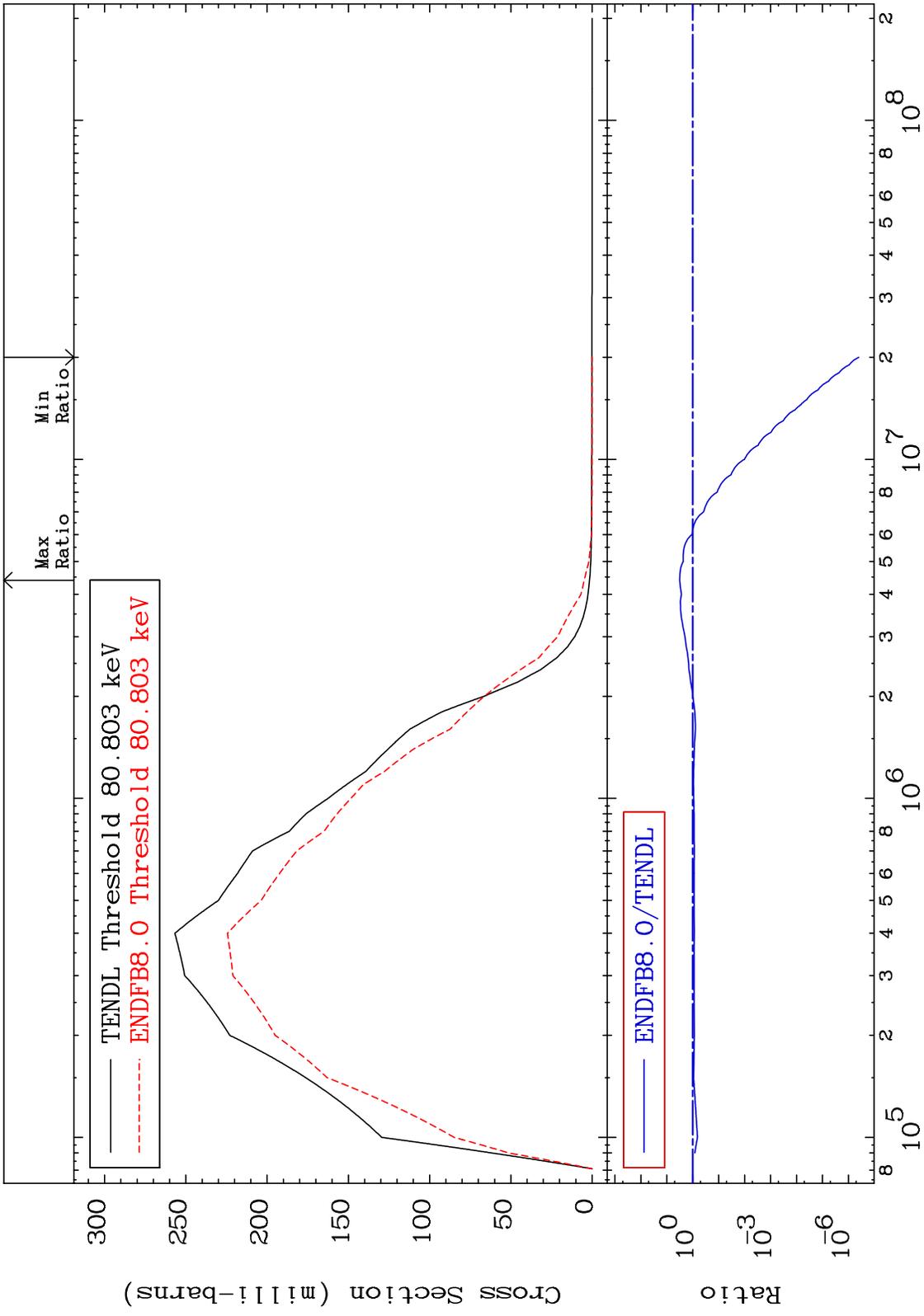


8 9 10⁷ 2 3 4 5 6 7 8 9 10⁸ 2 54-Xe-131

MAT 5446 (n,2n) p 54-Xe-131
 Cross Section -99.06 To 42.22 %

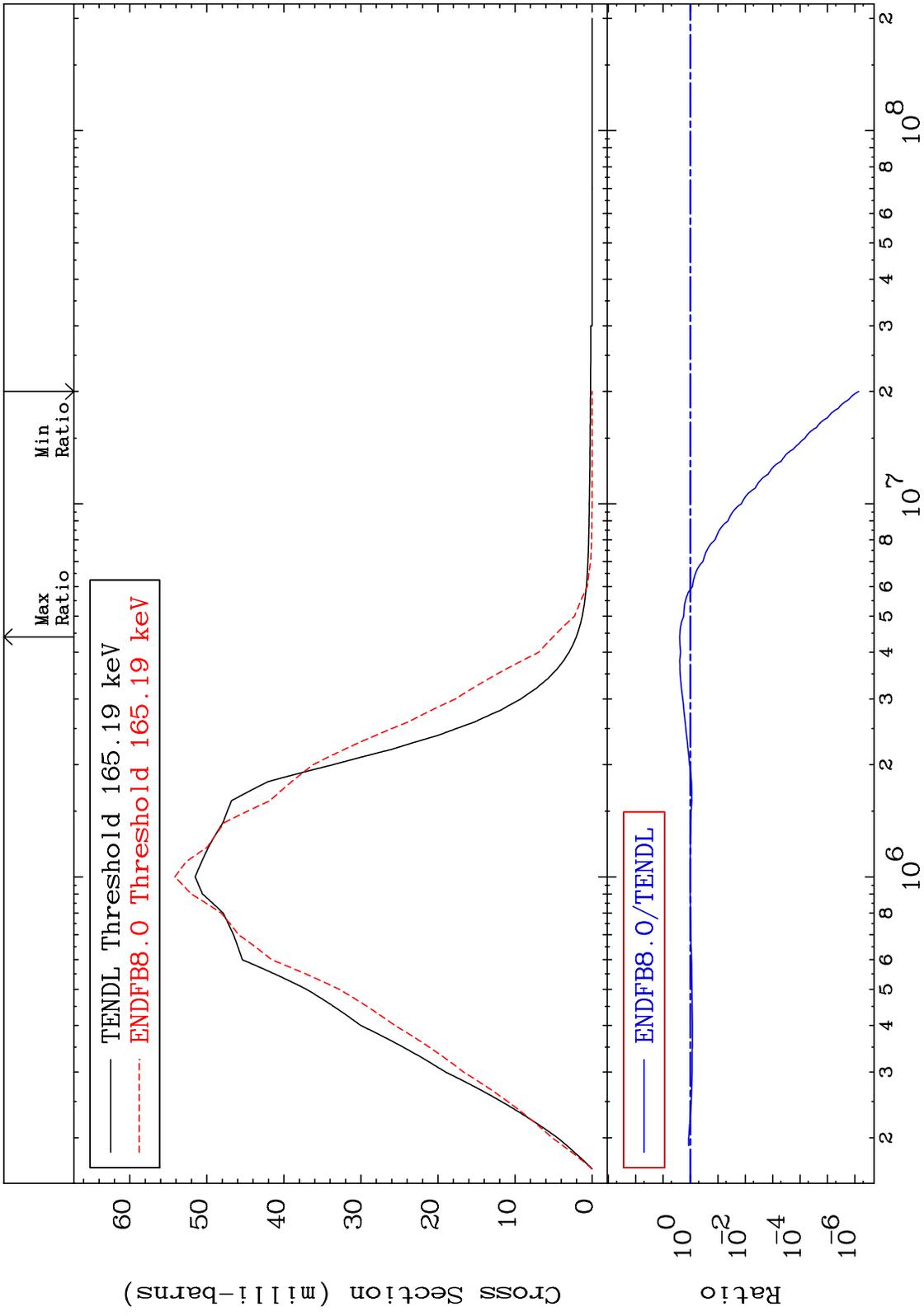


MAT 5446 MT= 51 (n,n') Level Cross Section 54-Xe-131 -100.0 To 216.6 %



54-Xe-131

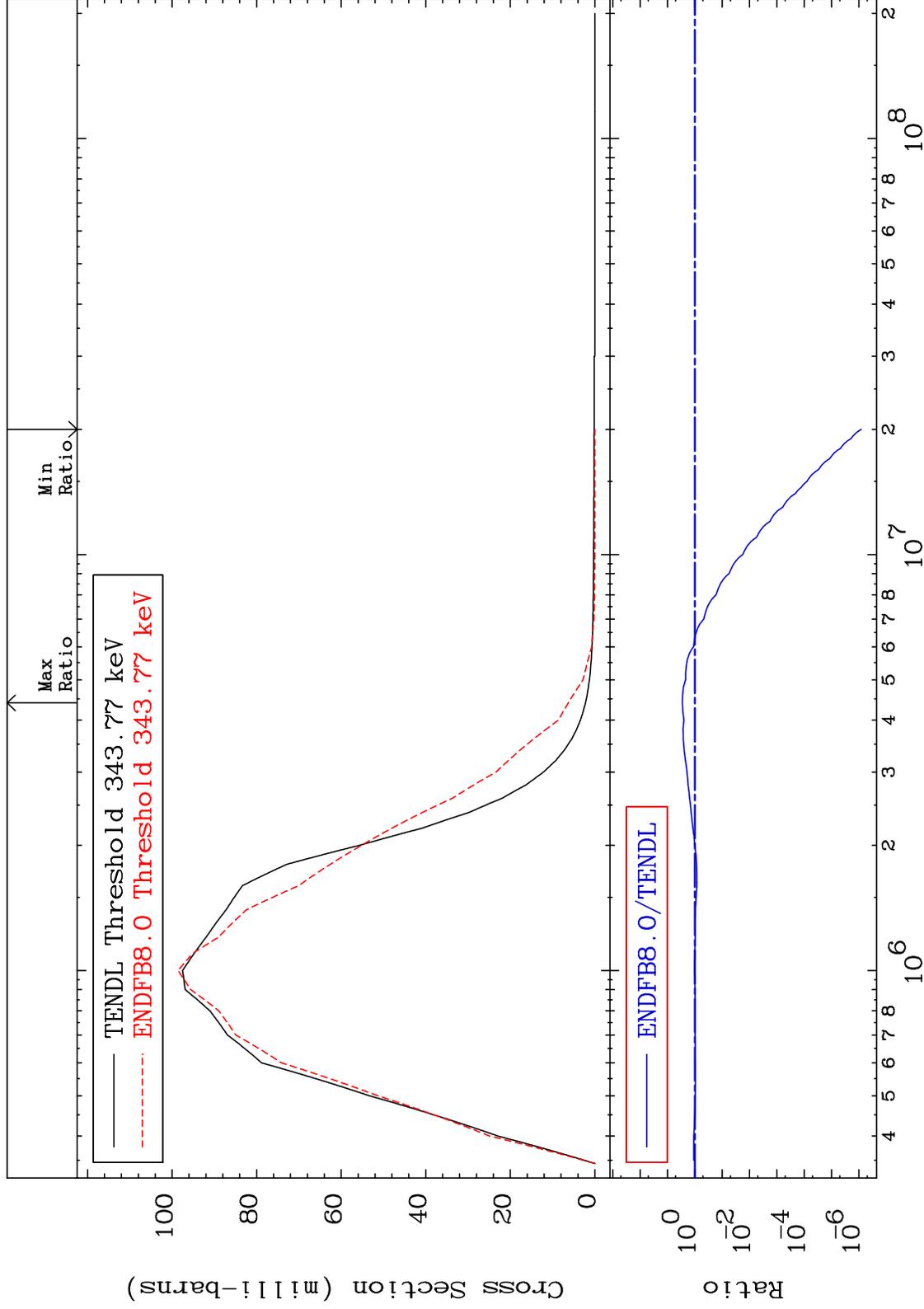
MAT 5446 MT= 52 (n,n') Level Cross Section 54-Xe-131 -100.0 To 147.2 %



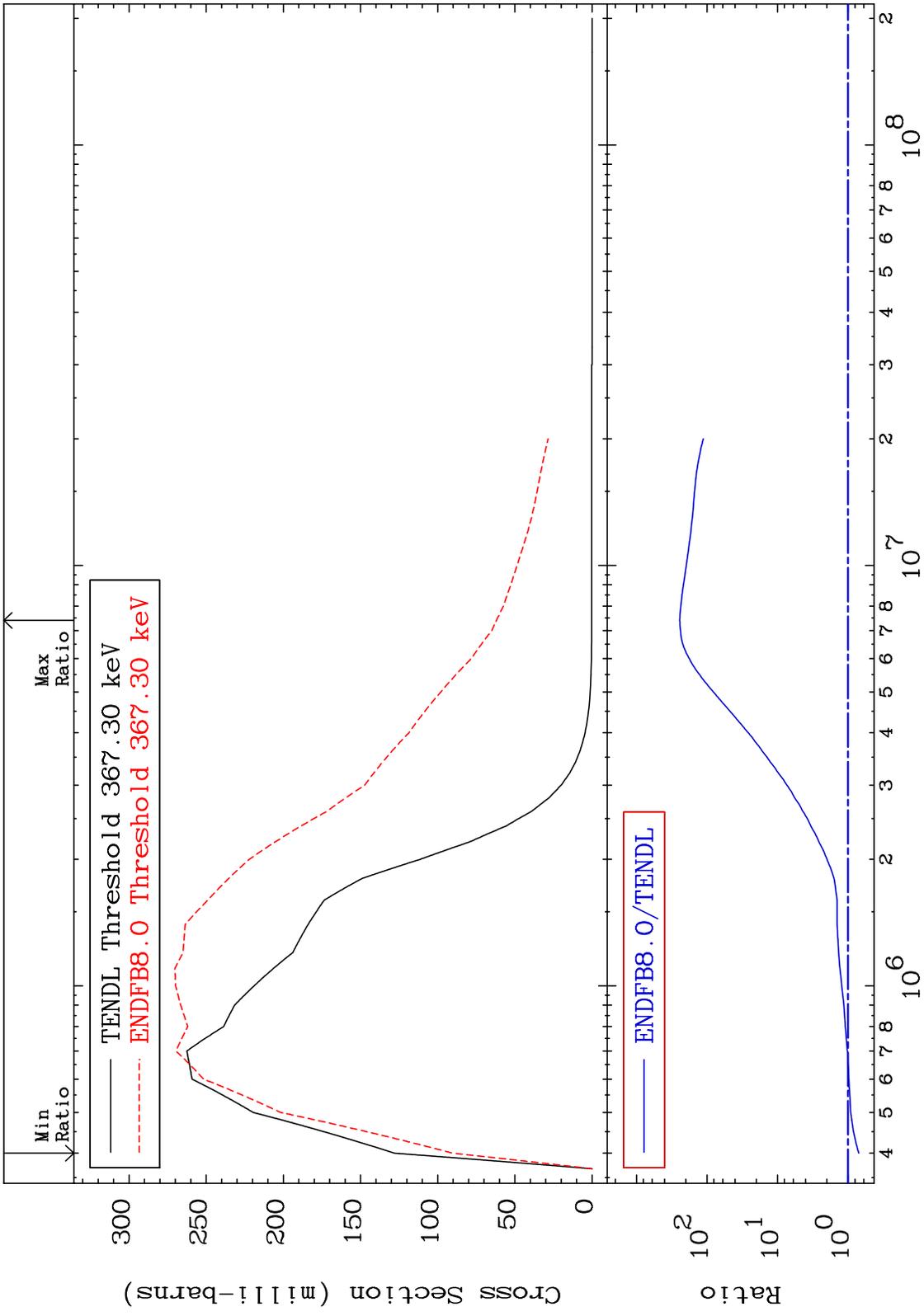
MAT 5446

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

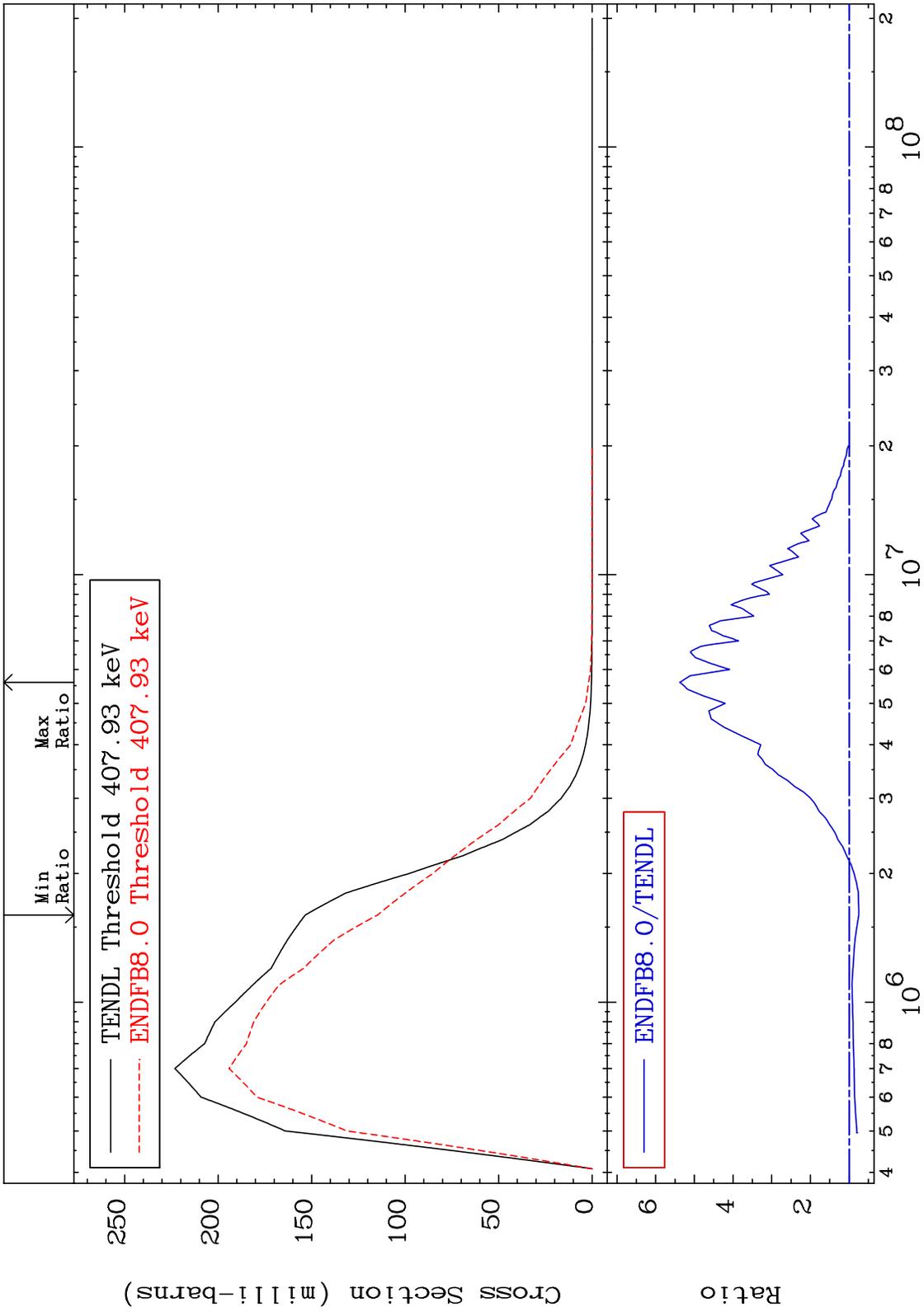
54-Xe-131
-100.0 To 182.9 %



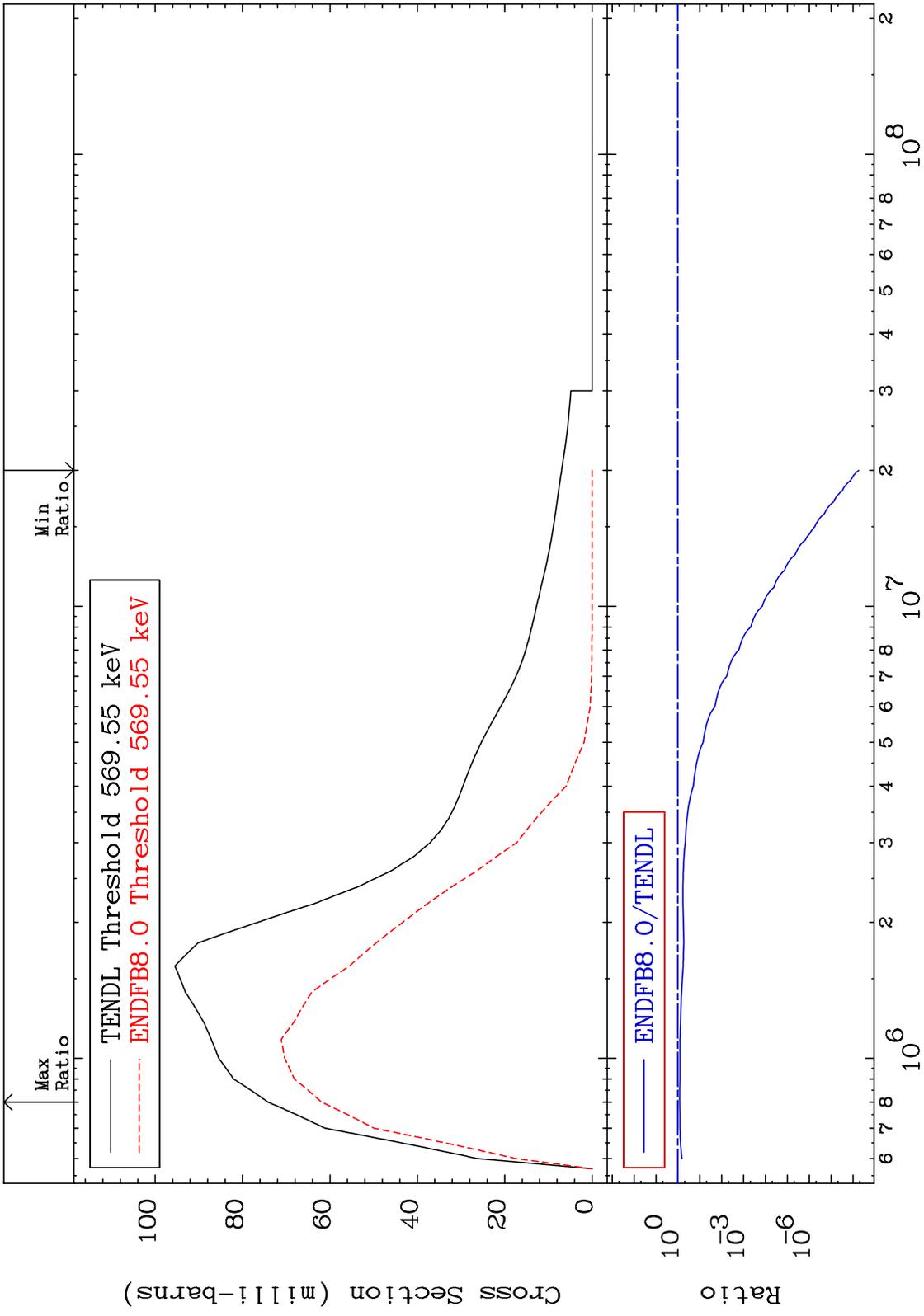
MAT 5446 MT= 54 (n,n') Level Cross Section 54-Xe-131 -29.49 To 9999. %



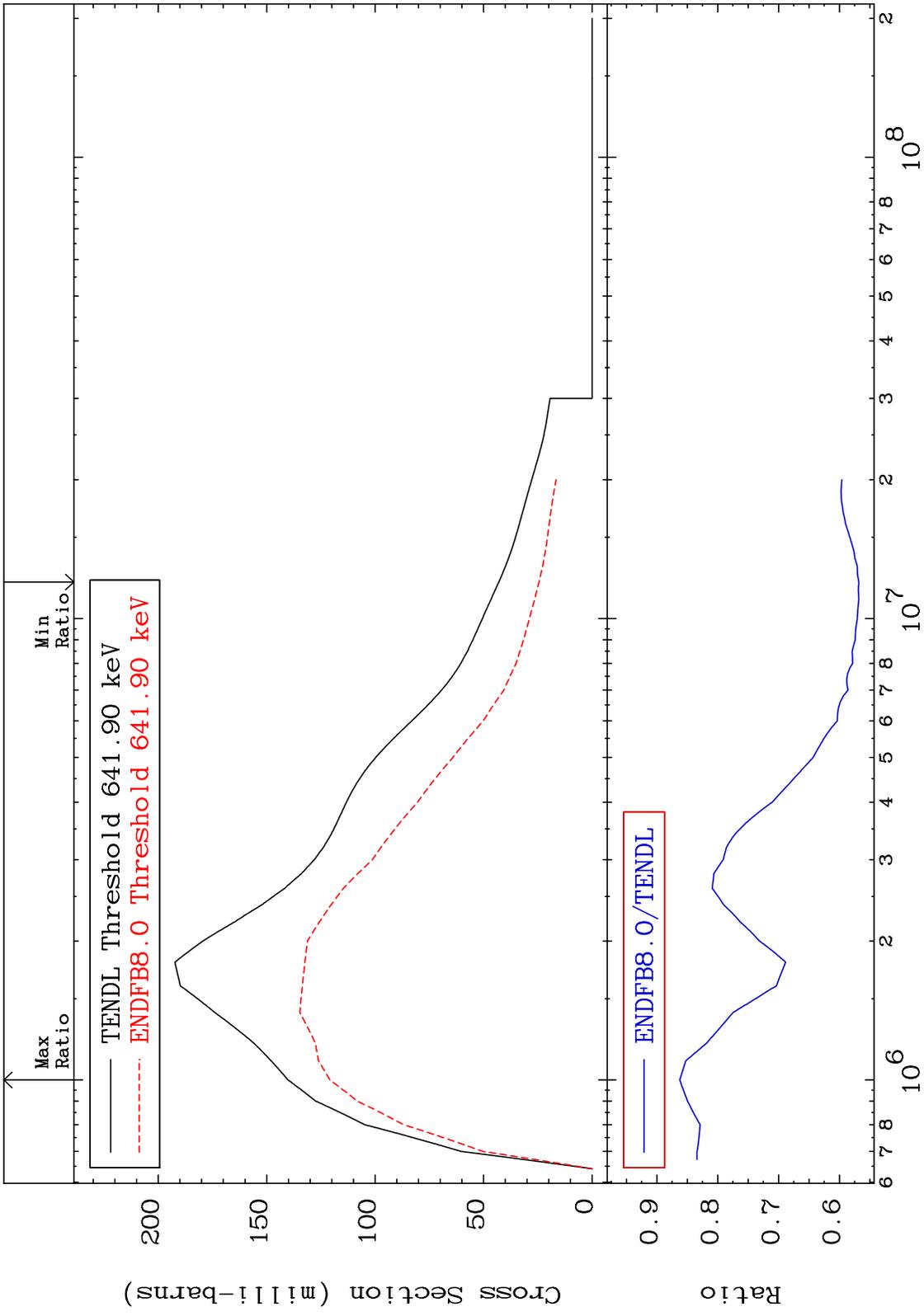
MAT 5446 MT= 55 (n,n') Level Cross Section 54-Xe-131 -25.22 To 437.8 %



MAT 5446 MT= 56 (n,n') Level Cross Section 54-Xe-131 -100.0 To -16.52%



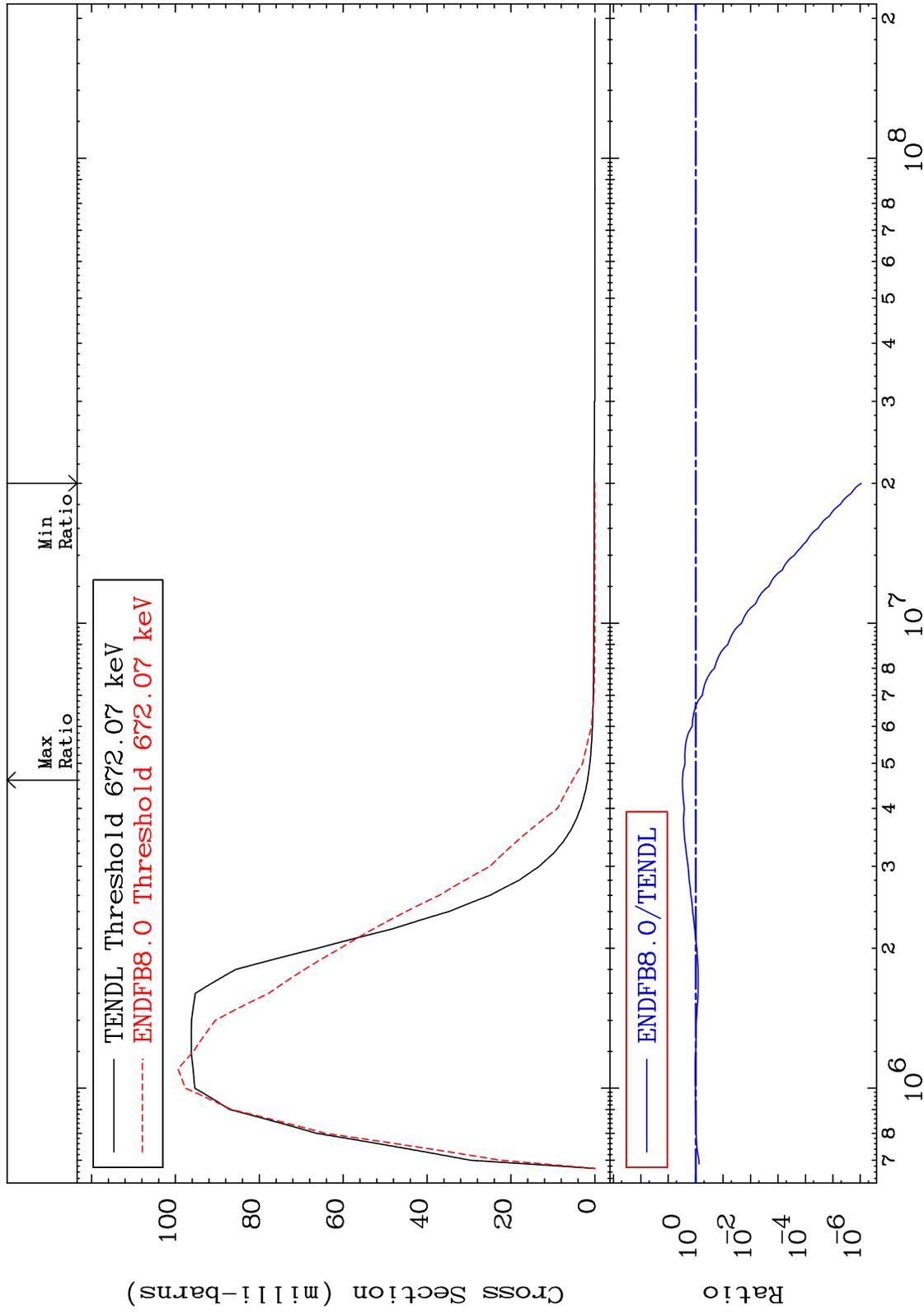
MAT 5446 MT= 57 (n,n') Level Cross Section 54-Xe-131 -43.18 To -13.77%



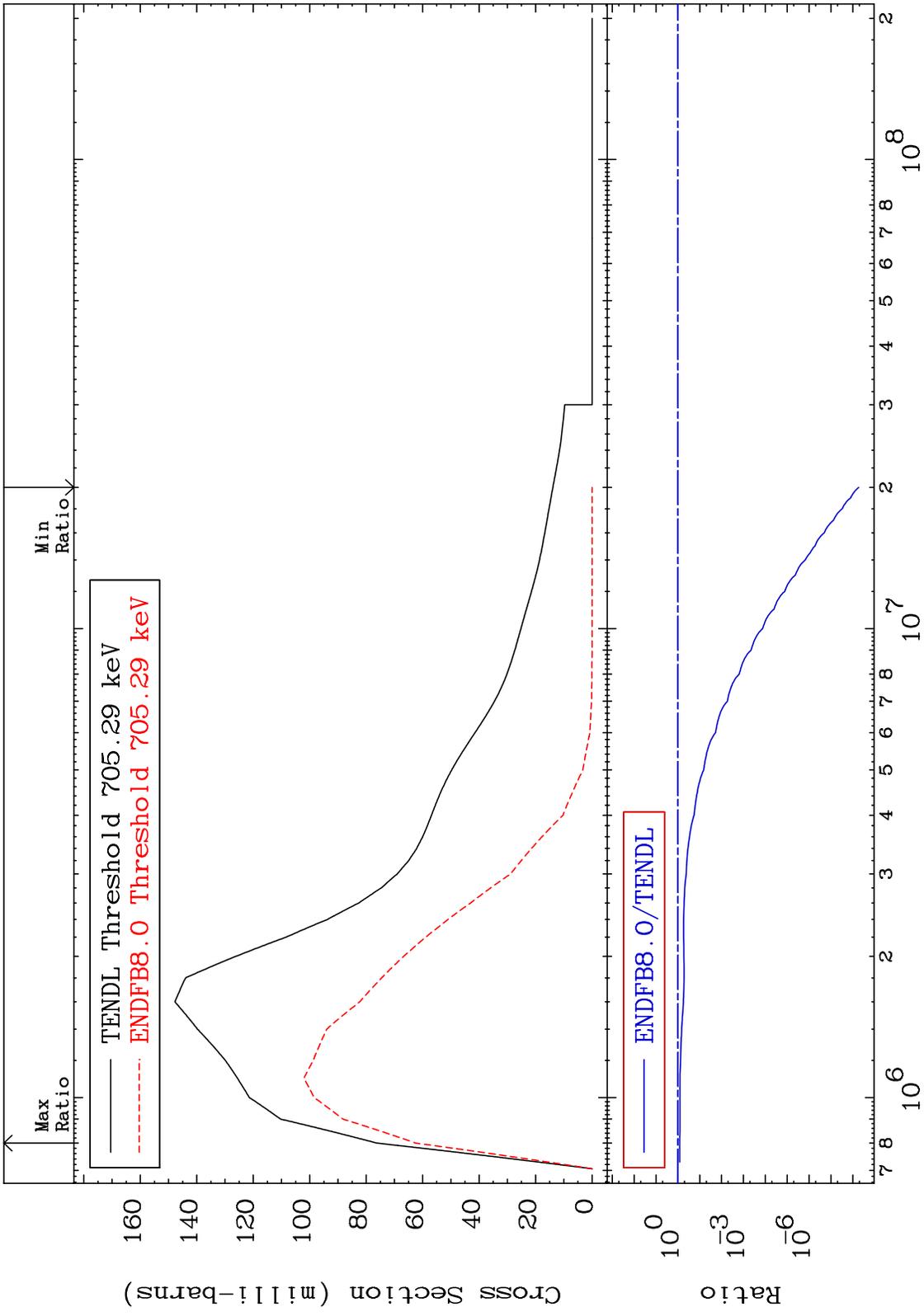
MAT 5446

MT= 58 (n,n') Level
Cross Section

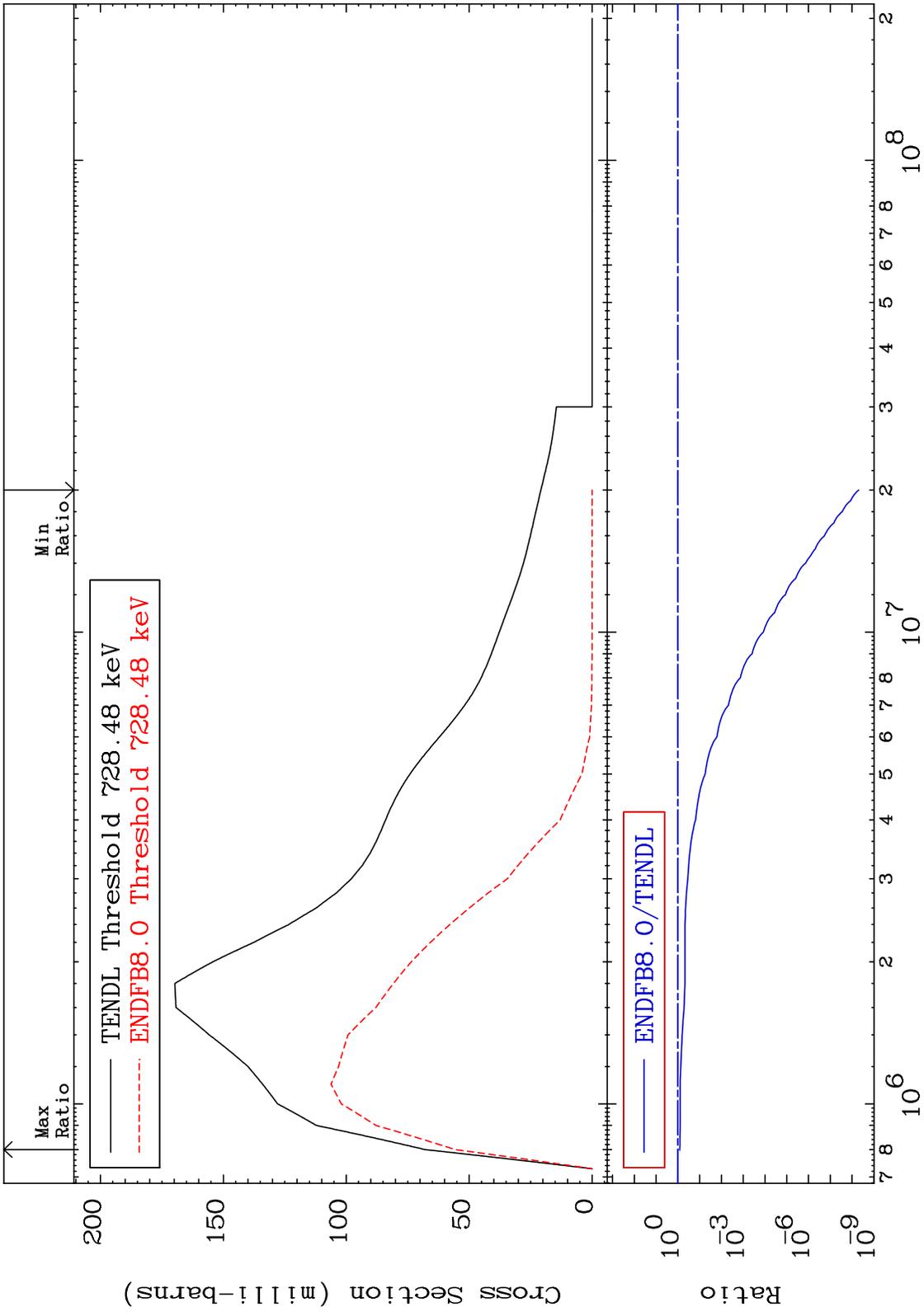
54-Xe-131
-100.0 To 204.0 %



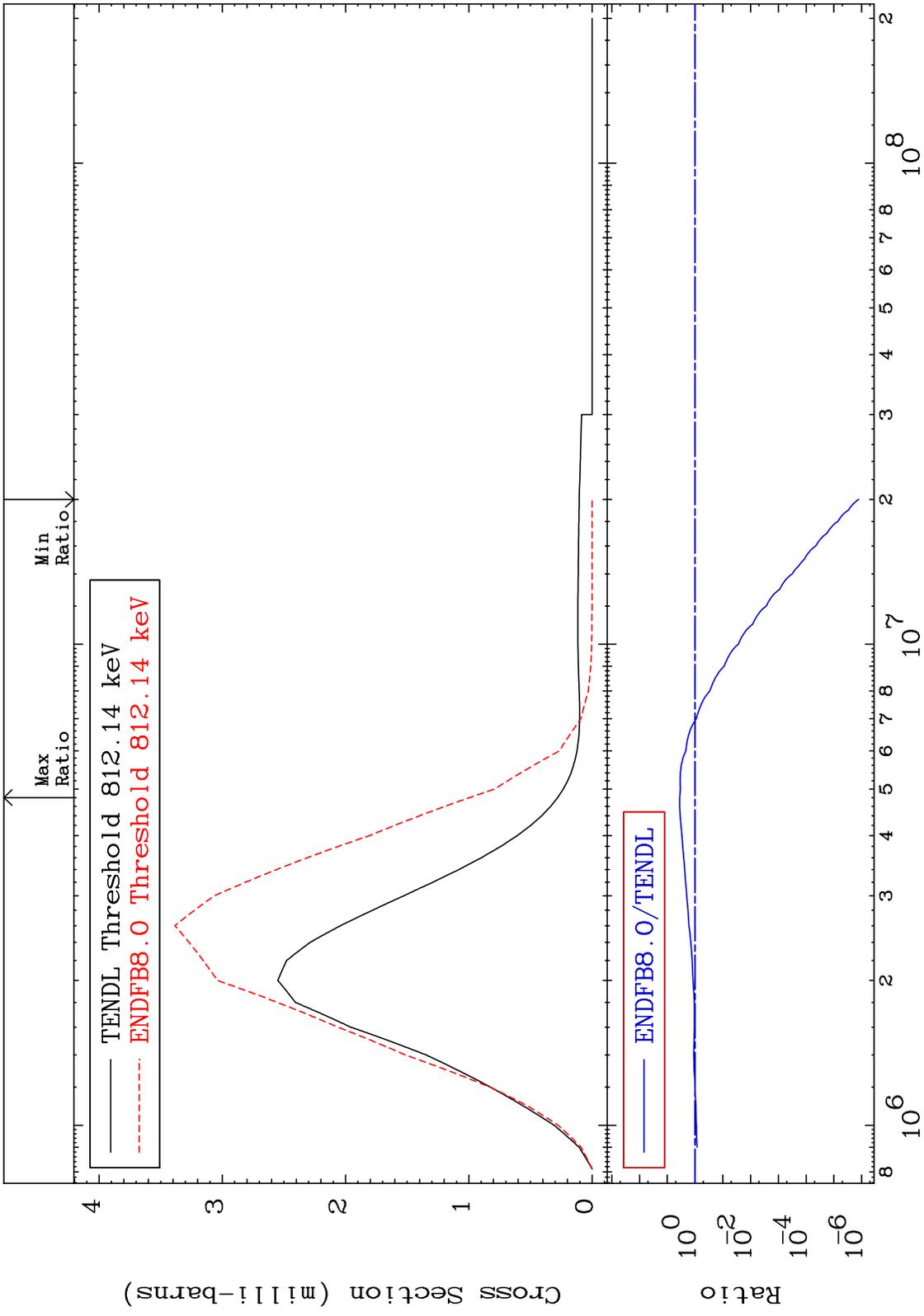
MAT 5446 MT= 59 (n,n') Level Cross Section 54-Xe-131 -100.0 To -18.08%



MAT 5446 MT= 60 (n,n') Level Cross Section 54-Xe-131 -100.0 To -17.99%



MAT 5446 MT= 61 (n,n') Level 54-Xe-131
 Cross Section -100.0 To 256.3 %

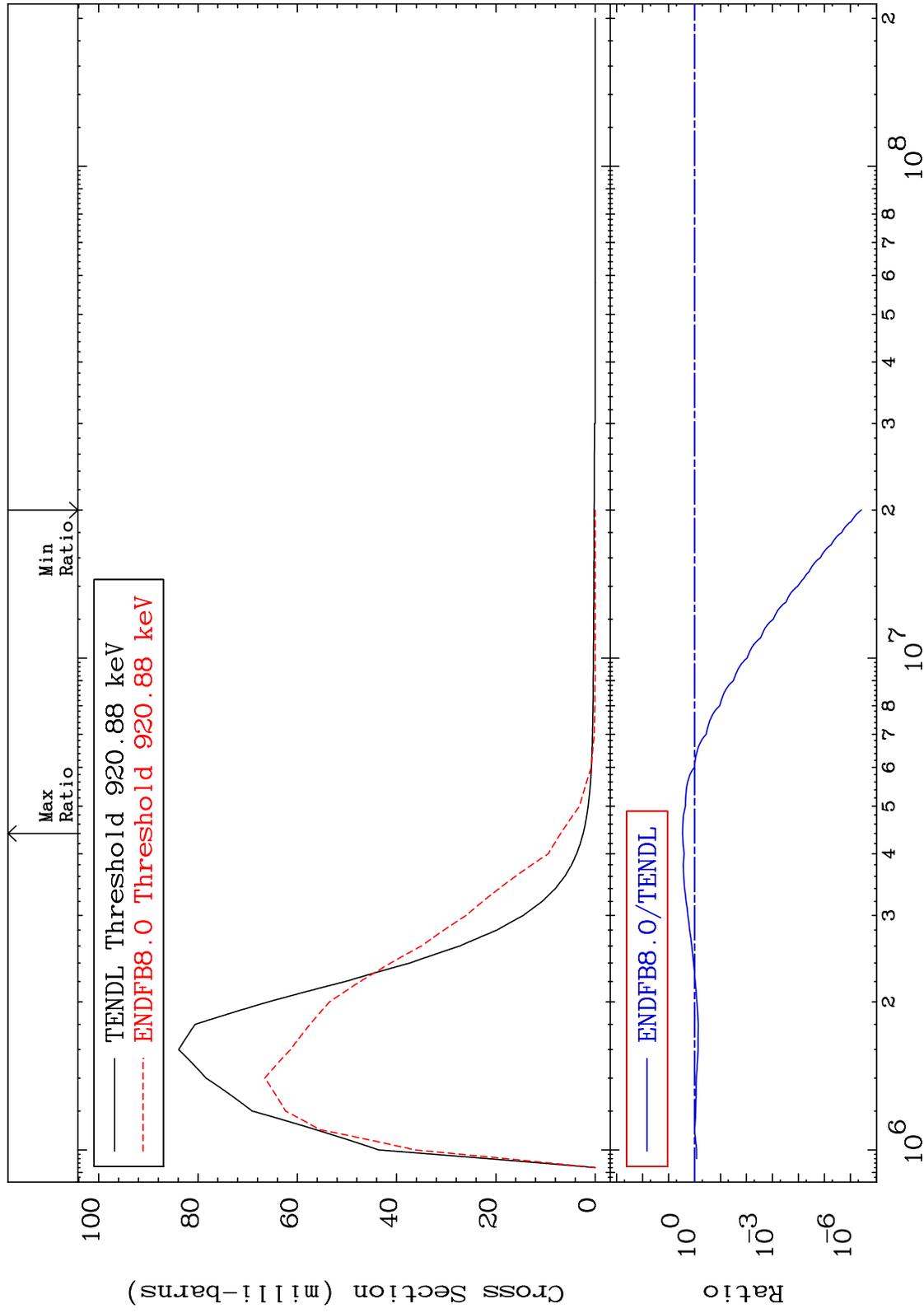


20 Incident Energy (eV) 54-Xe-131

MAT 5446

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

54-Xe-131
-100.0 To 186.7 %



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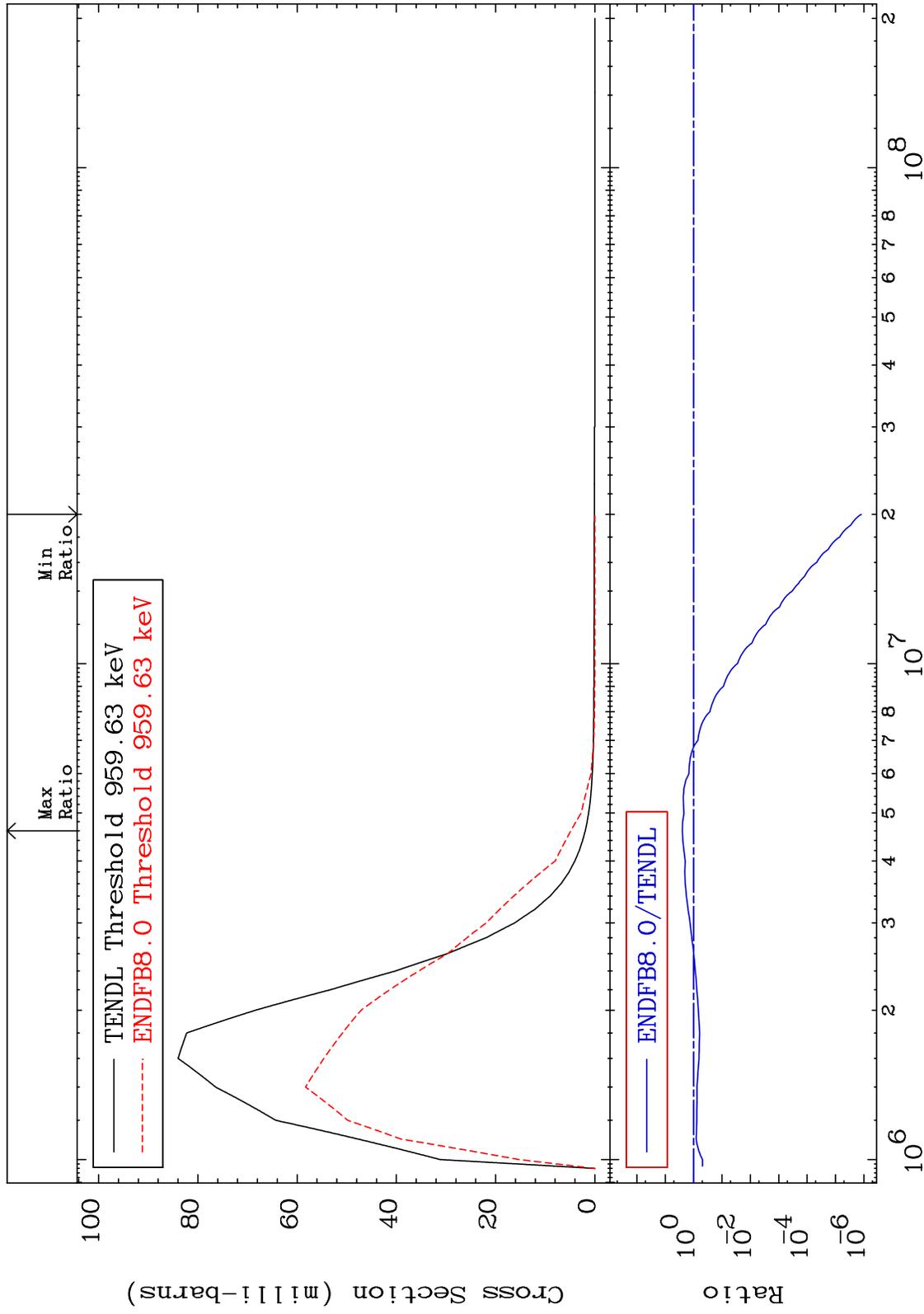
Incident Energy (eV)

54-Xe-131

MAT 5446

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

54-Xe-131
-100.0 To 149.1 %

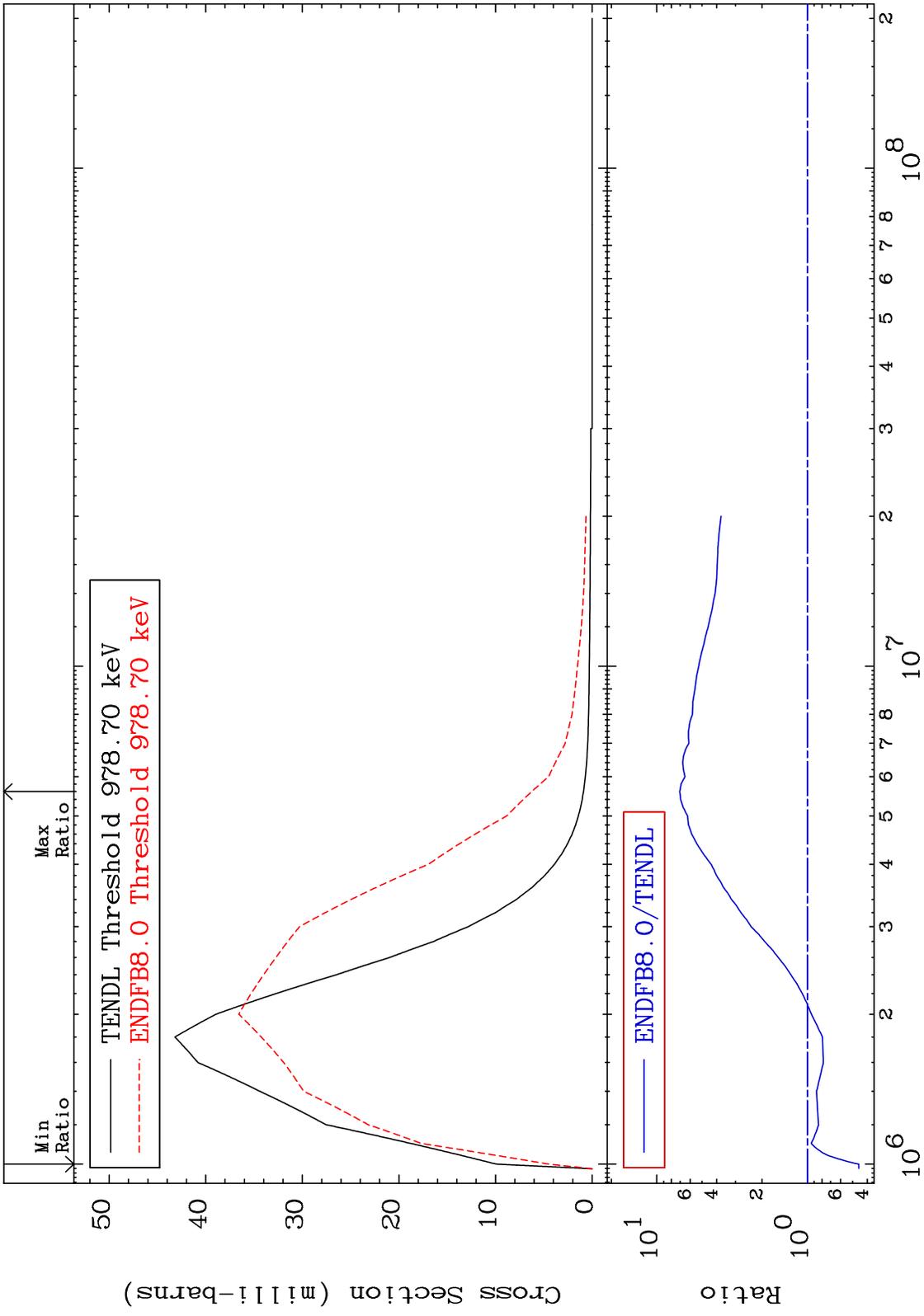


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Incident Energy (eV)

54-Xe-131

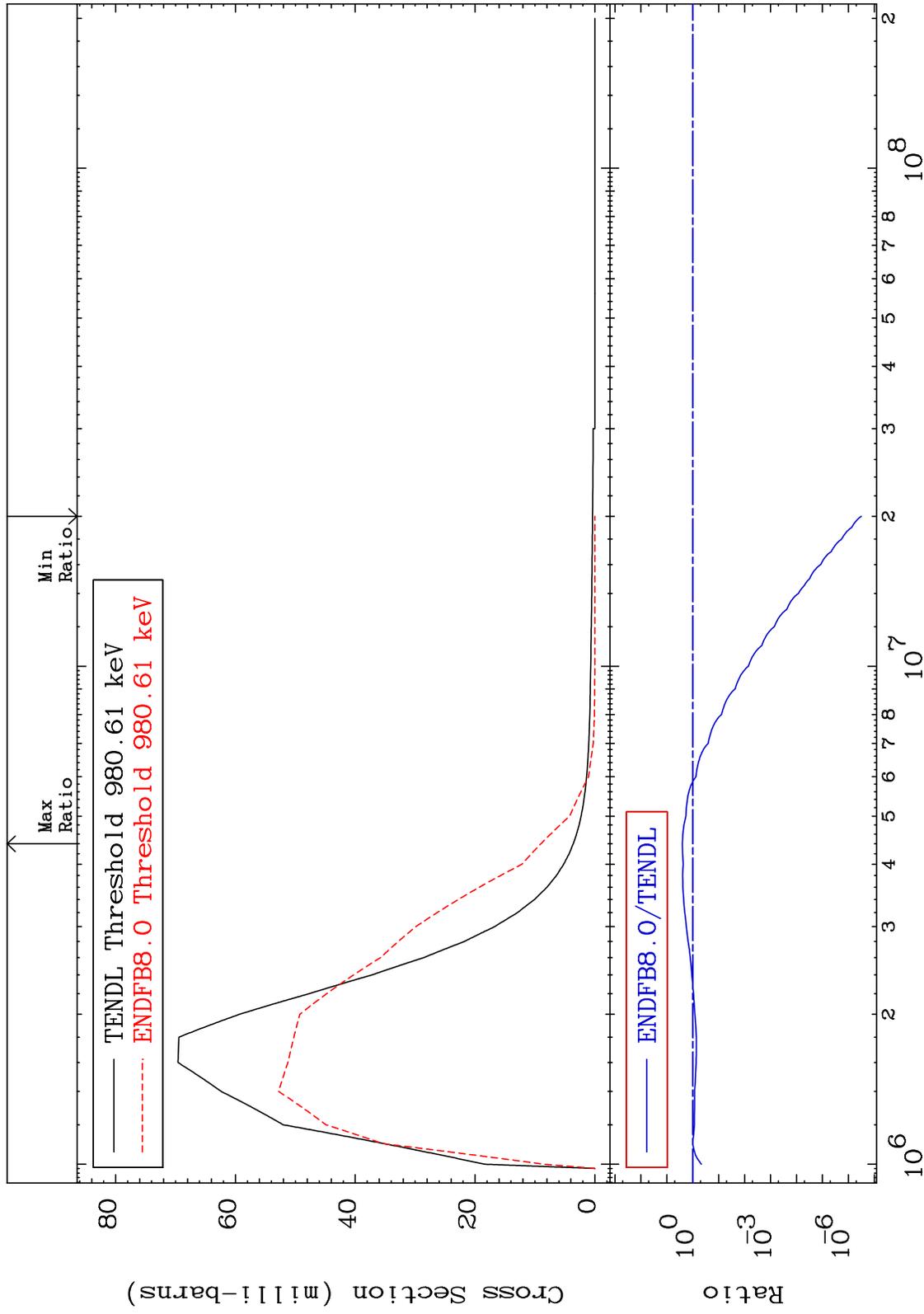
MAT 5446 MT= 64 (n,n') Level Cross Section 54-Xe-131 -54.52 To 603.3 %



MAT 5446

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

54-Xe-131
-100.0 To 150.2 %



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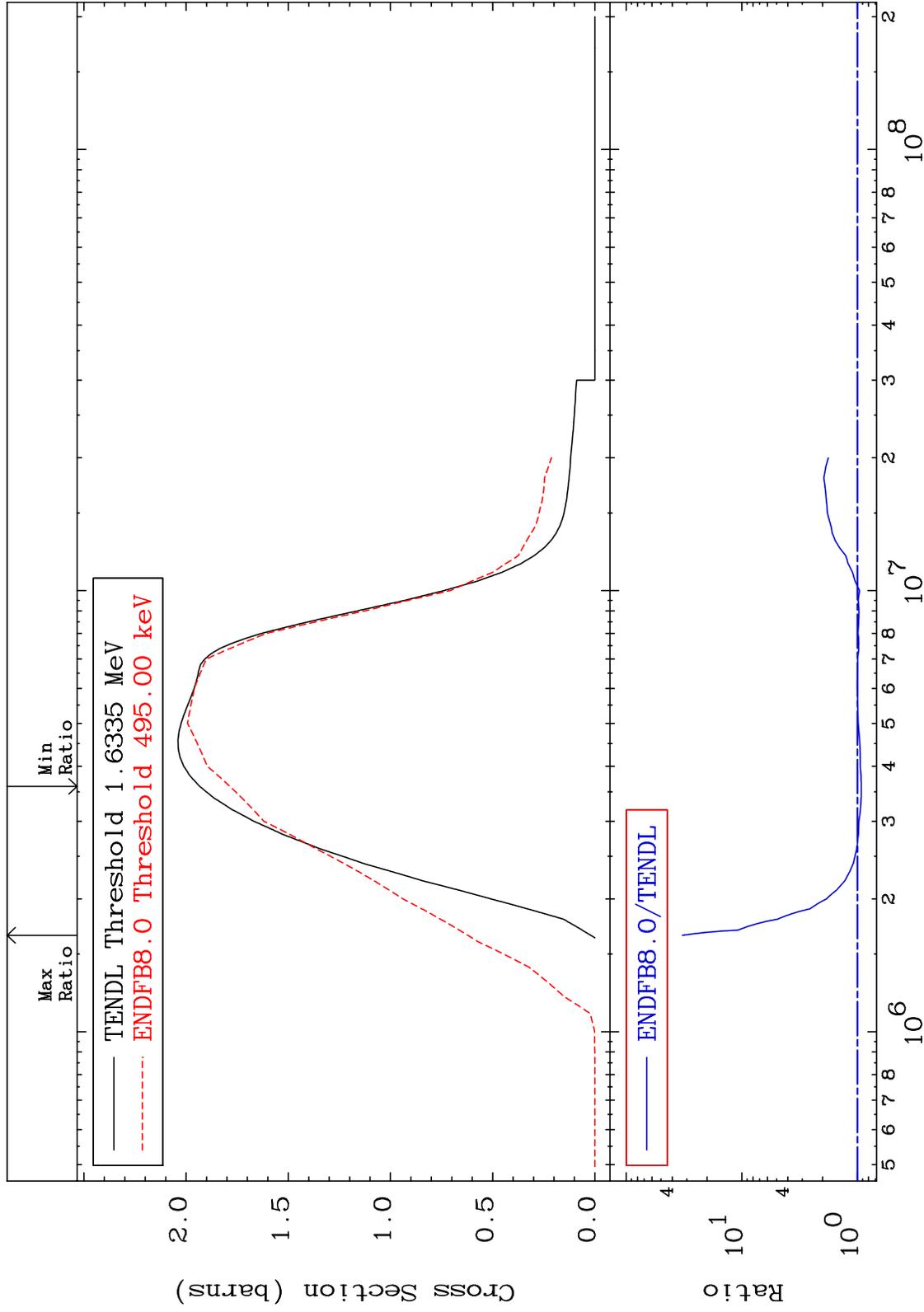
Incident Energy (eV)

54-Xe-131

MAT 5446

(n,n') Continuum
Cross Section

54-Xe-131
-7.651 To 3163. %



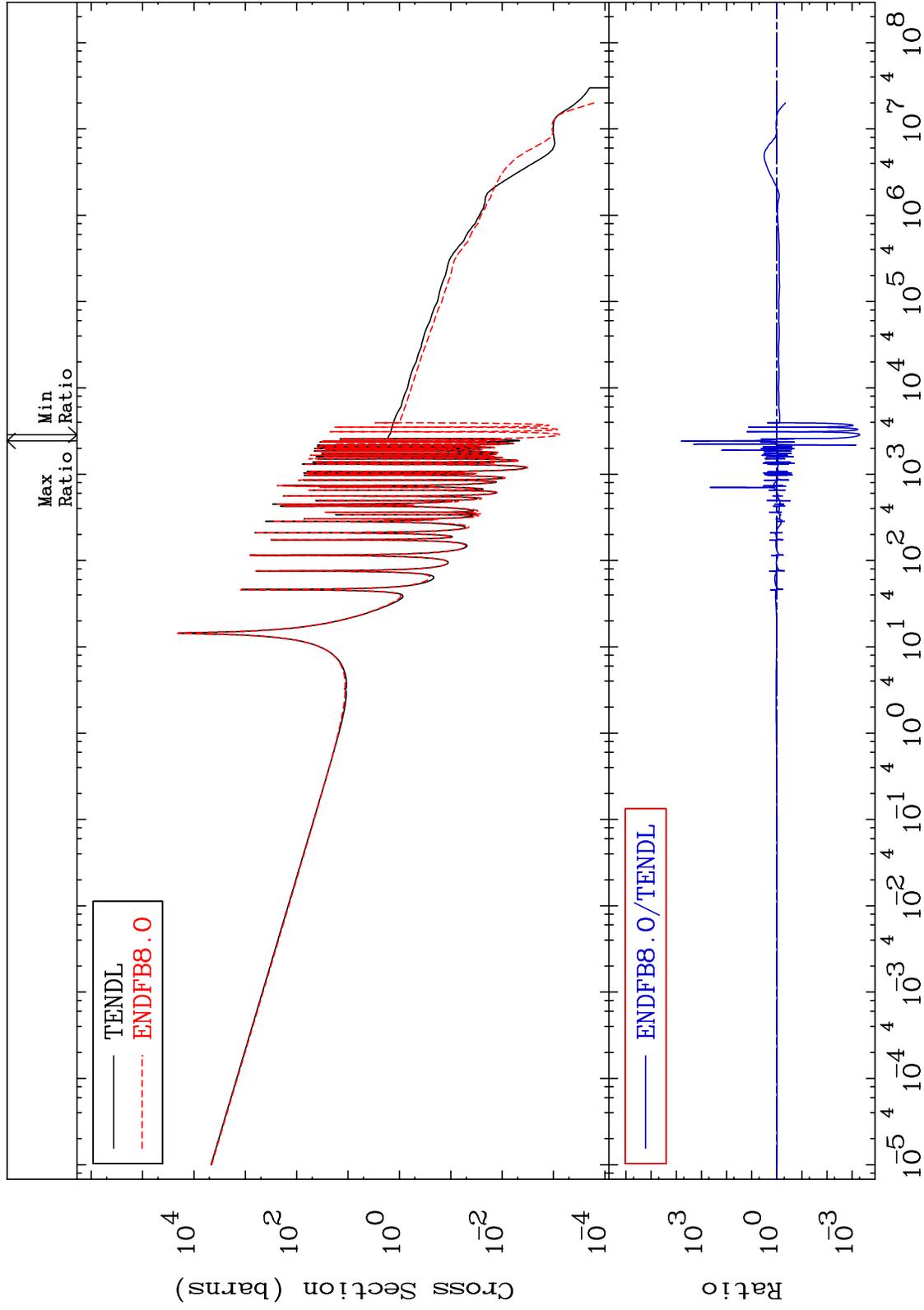
MAT 5446

(n, γ)

54-Xe-131

-99.95 To 9999. %

Cross Section



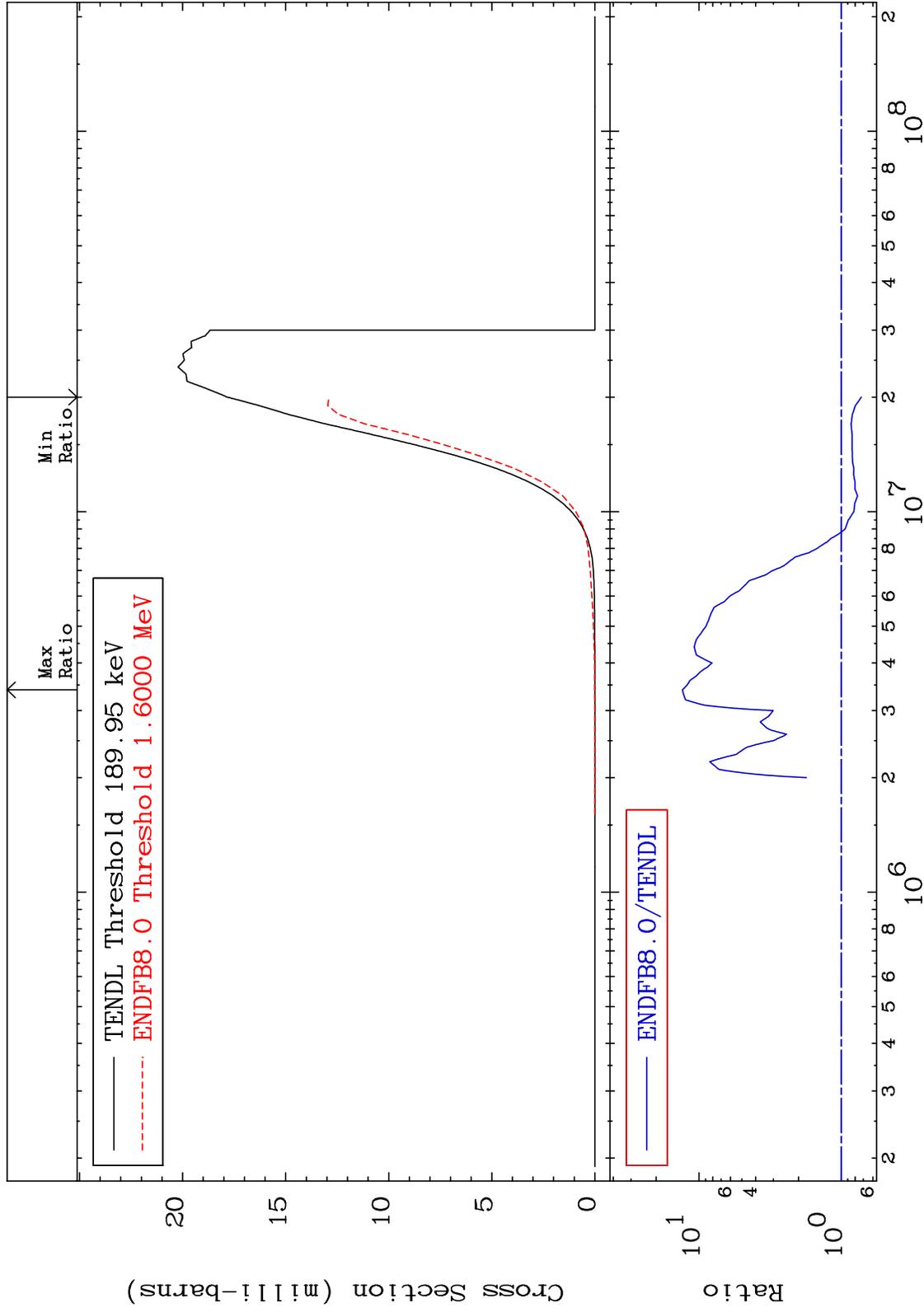
MAT 5446

(n,p)

54-Xe-131

Cross Section

-27.68 To 1206. %



MAT 5446

(n, α)

54-Xe-131

Cross Section

-58.74 To 6159. %

Max Ratio

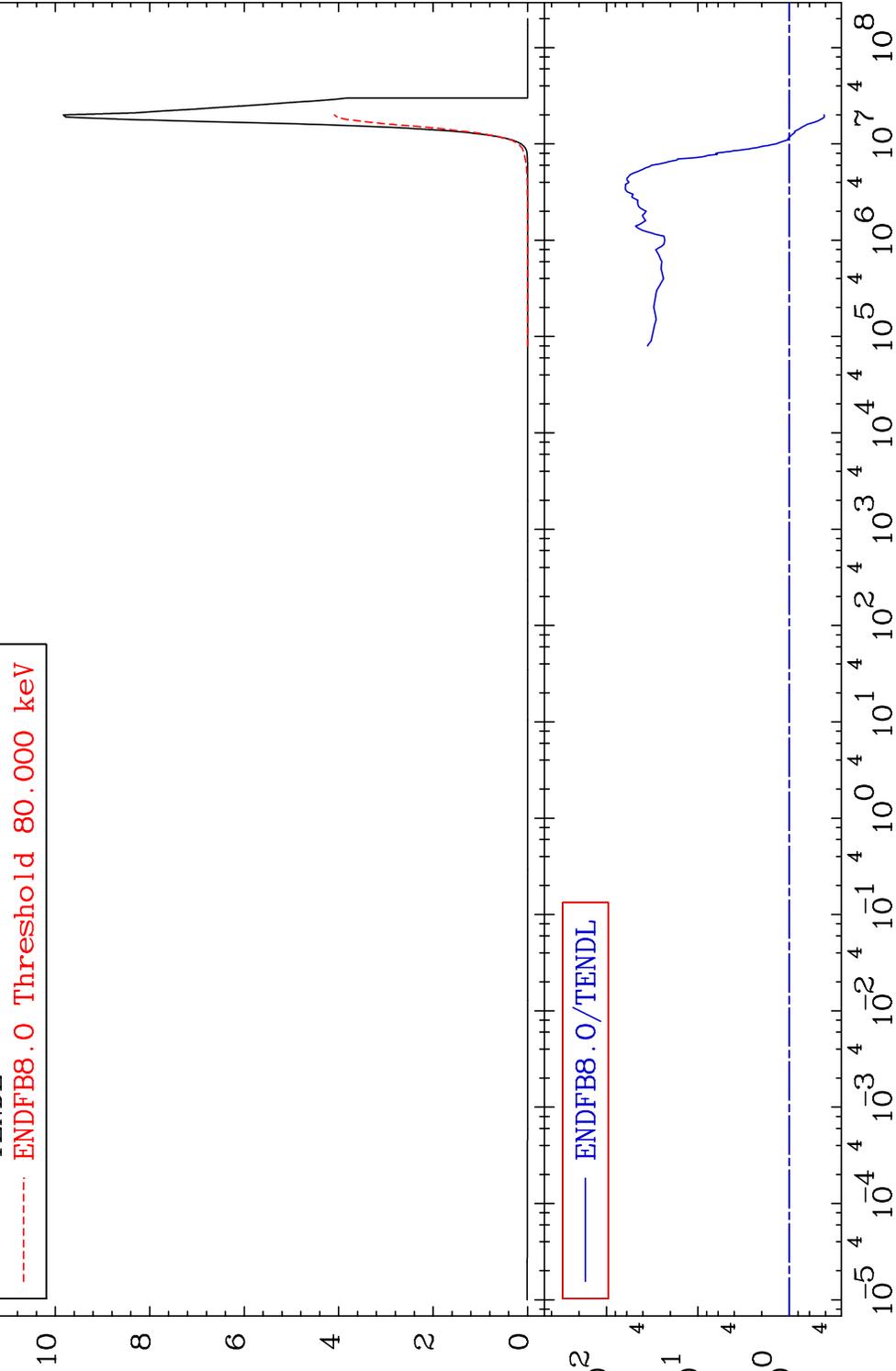
Min Ratio

— TENDL
- - - ENDFB8.0 Threshold 80.000 keV

— ENDFB8.0/TENDL

Cross Section (milli-barns)

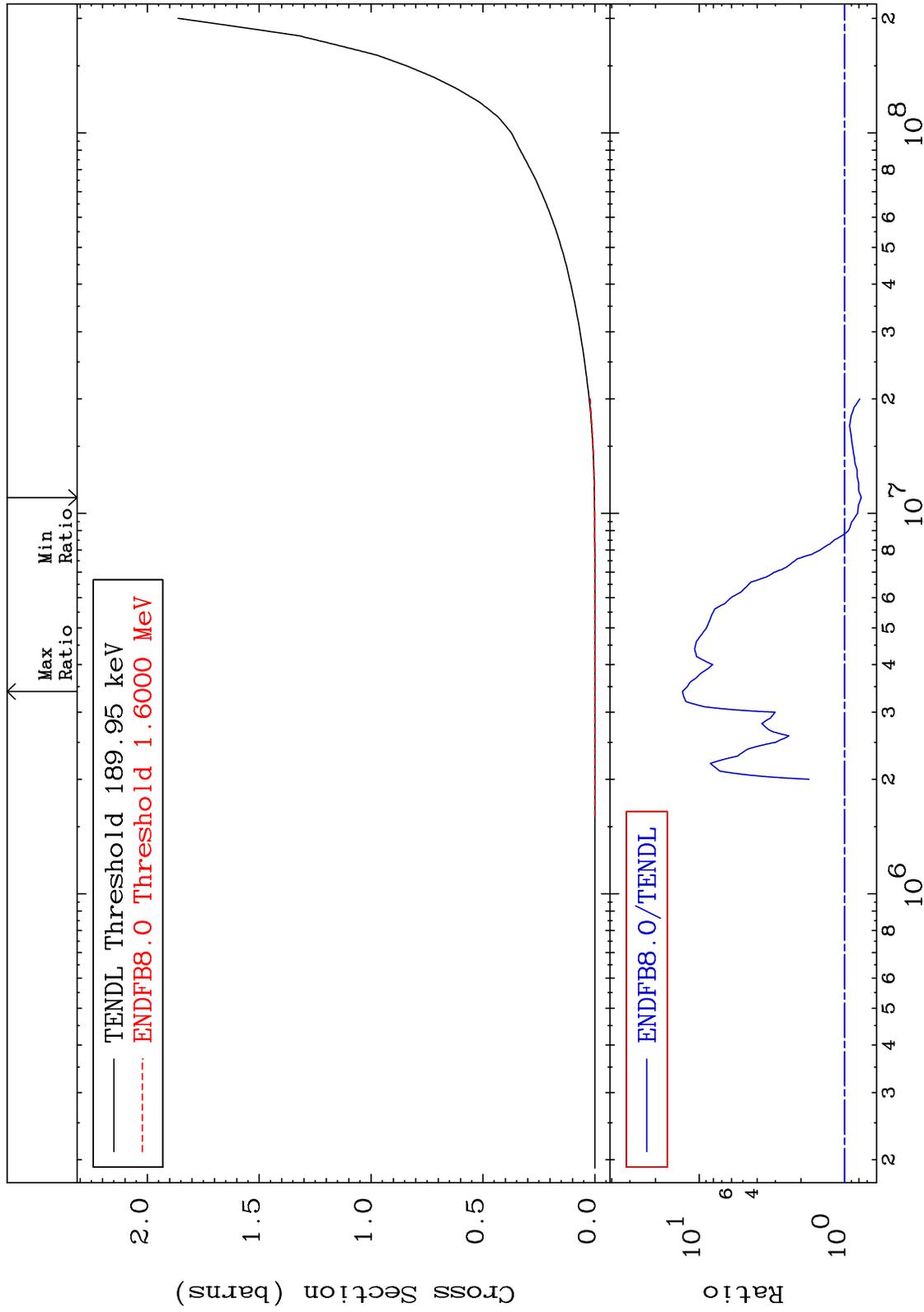
Ratio



MAT 5446

Hydrogen Production
Cross Section

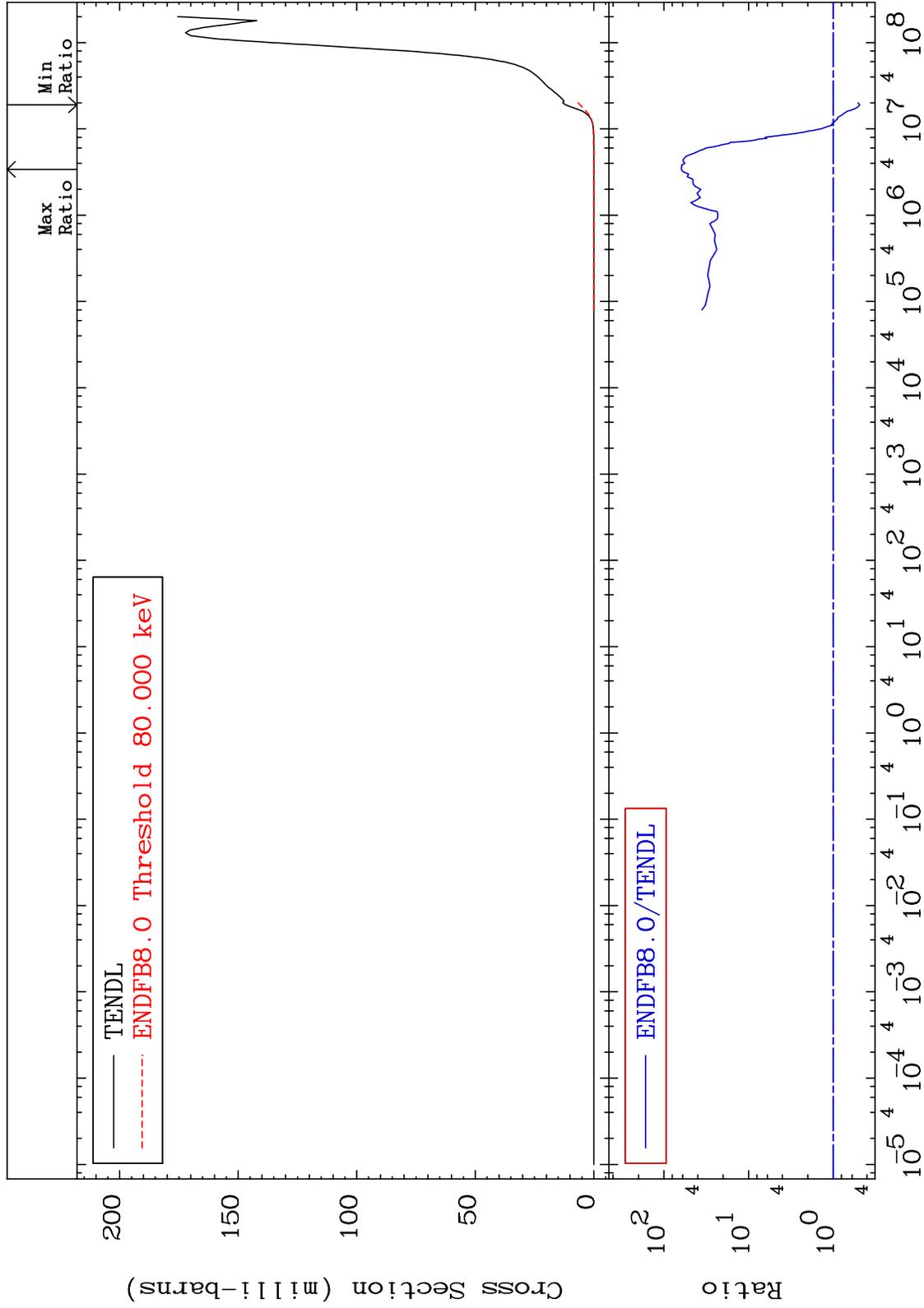
54-Xe-131
-23.15 To 1206. %



MAT 5446

He-4 Production
Cross Section

54-Xe-131
-51.43 To 6159. %



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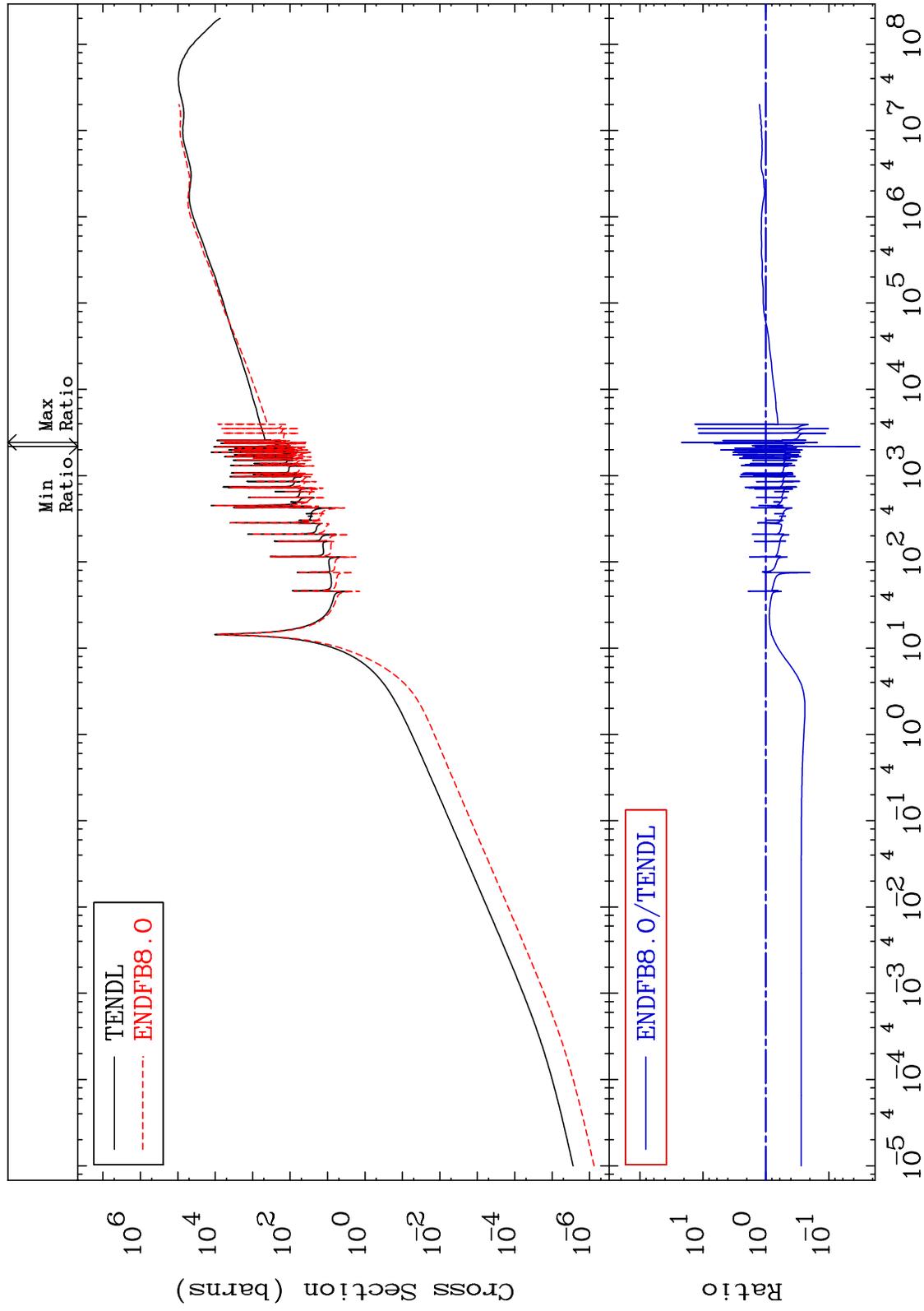
Incident Energy (eV)

54-Xe-131

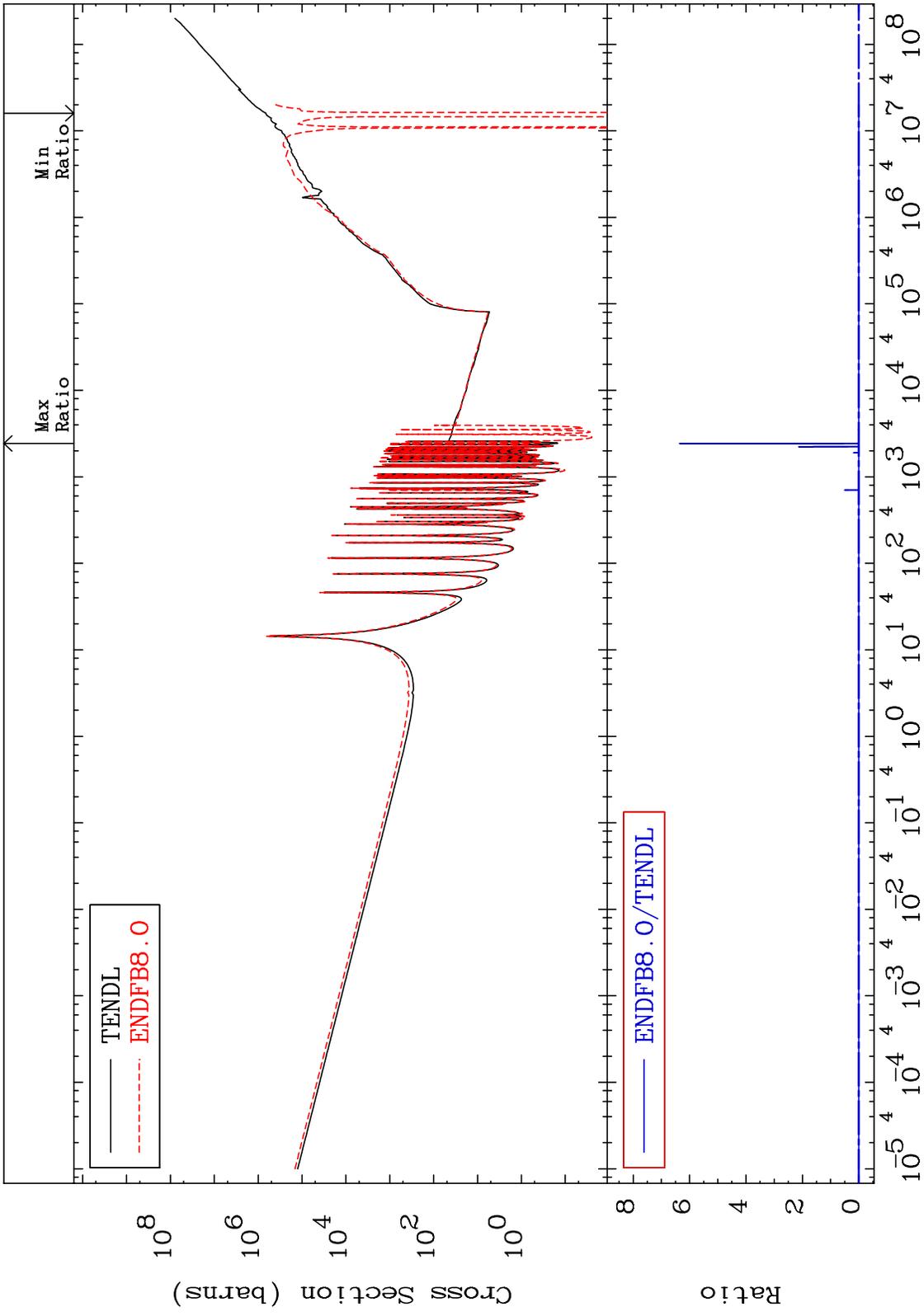
MAT 5446

Kerma elastic
Cross Section

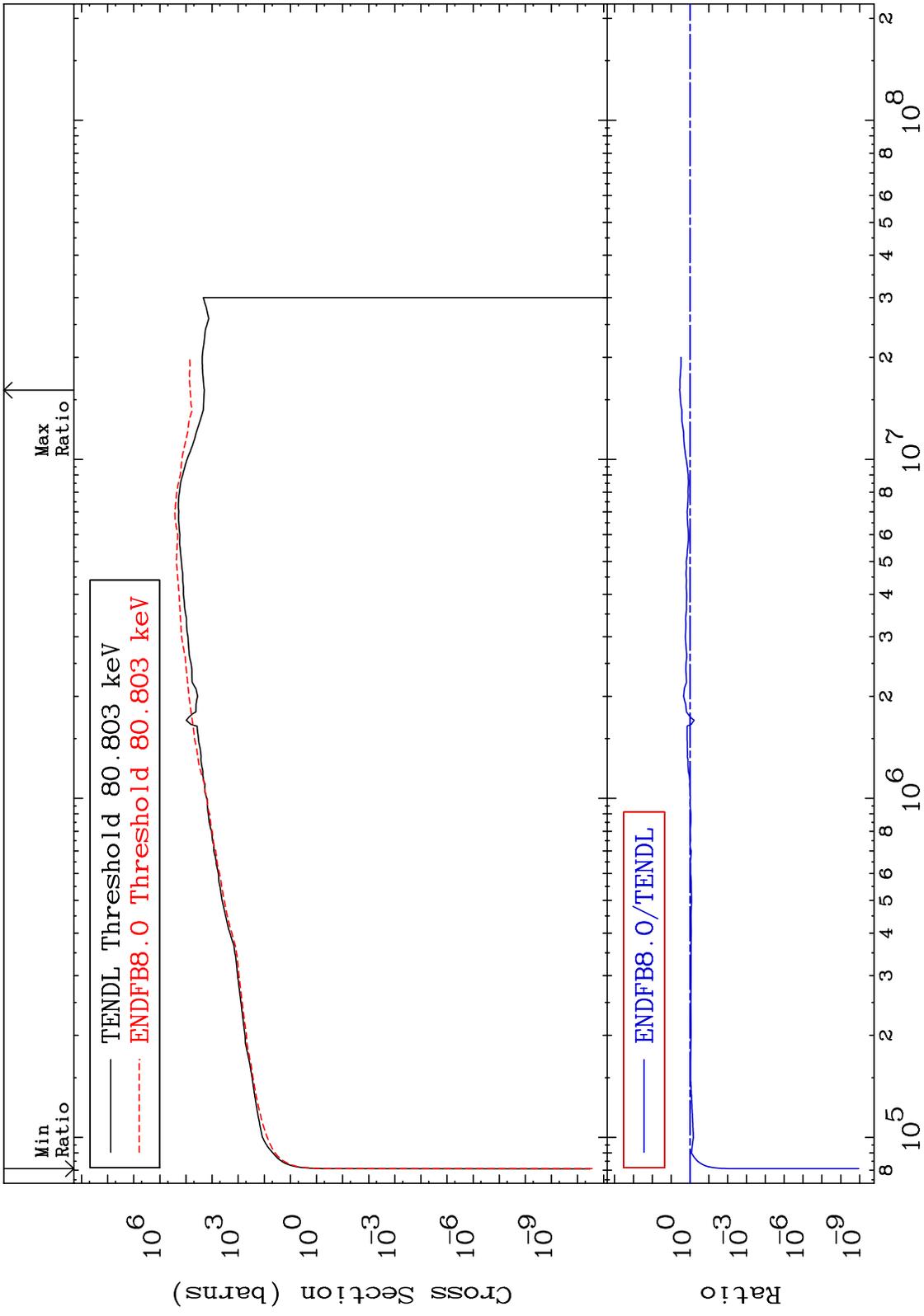
54-Xe-131
-96.80 To 2093. %



MAT 5446 Kerma non-elastic (all but mt2) 54-Xe-131
 Cross Section -108.6 To 9999. %



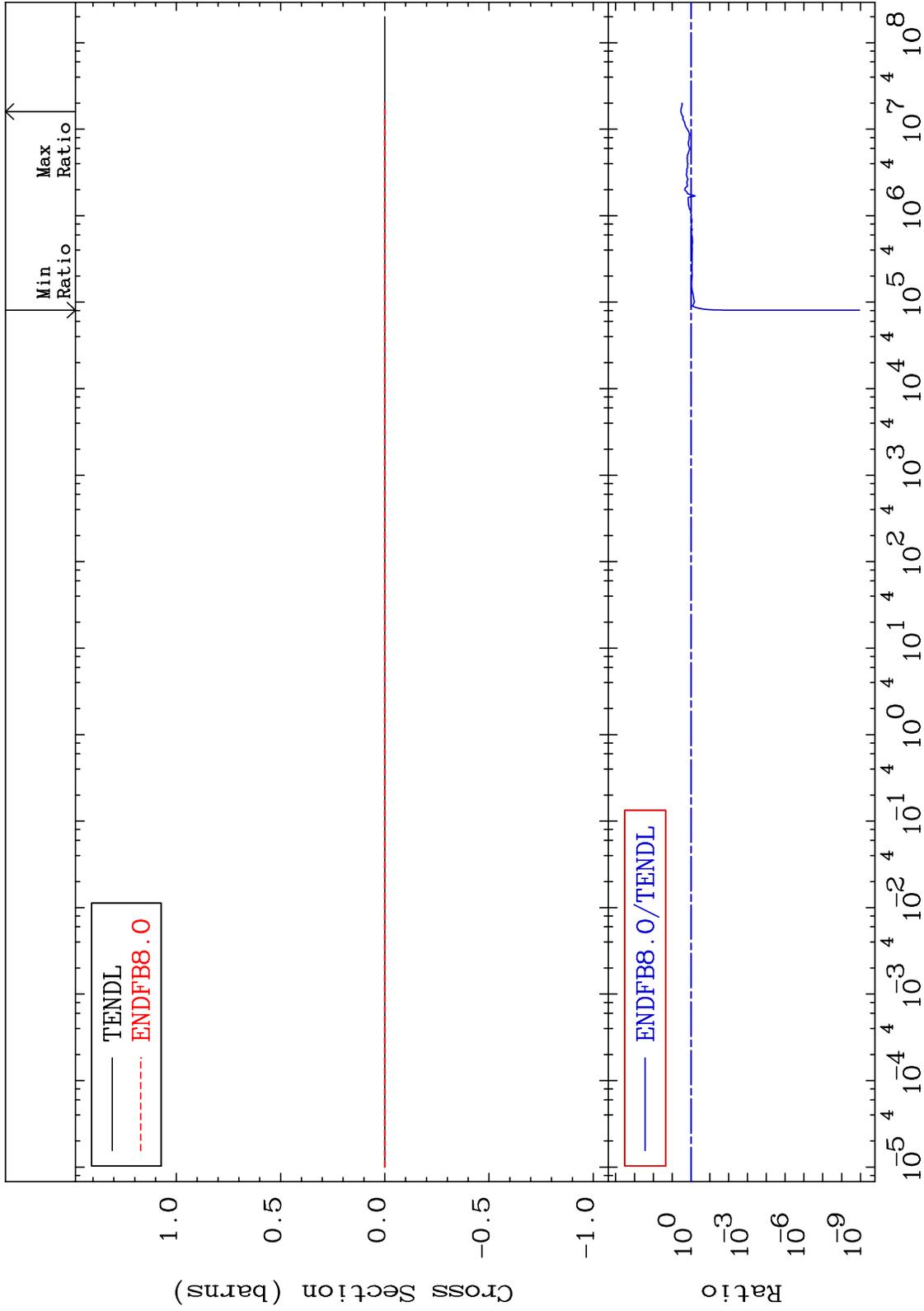
MAT 5446 Kerma inelastic (mt51-91) 54-Xe-131
 -100.0 To 246.7 %



MAT 5446

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

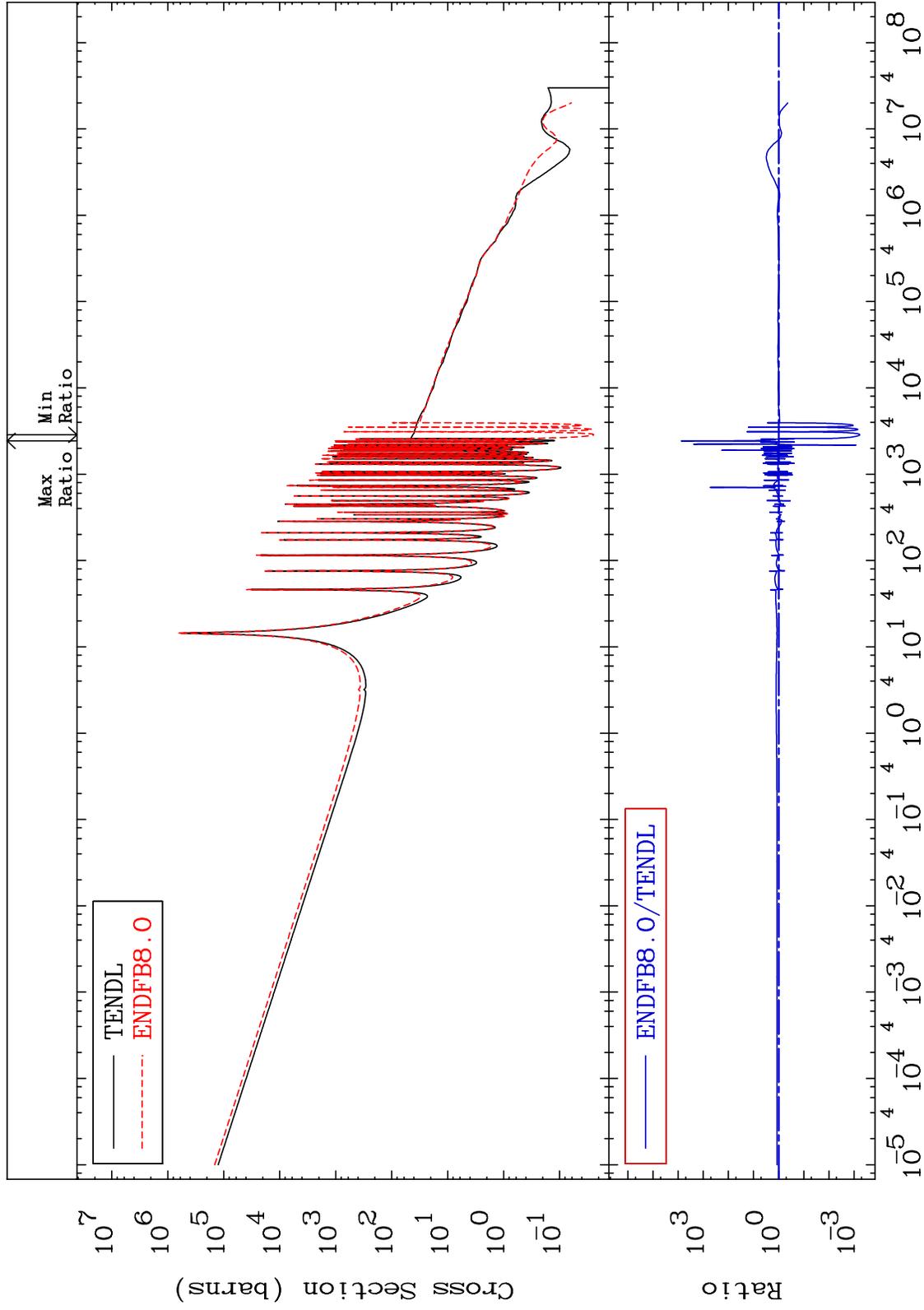
54-Xe-131
-100.0 To 246.7 %



MAT 5446

Kerma capture (mt102)
Cross Section

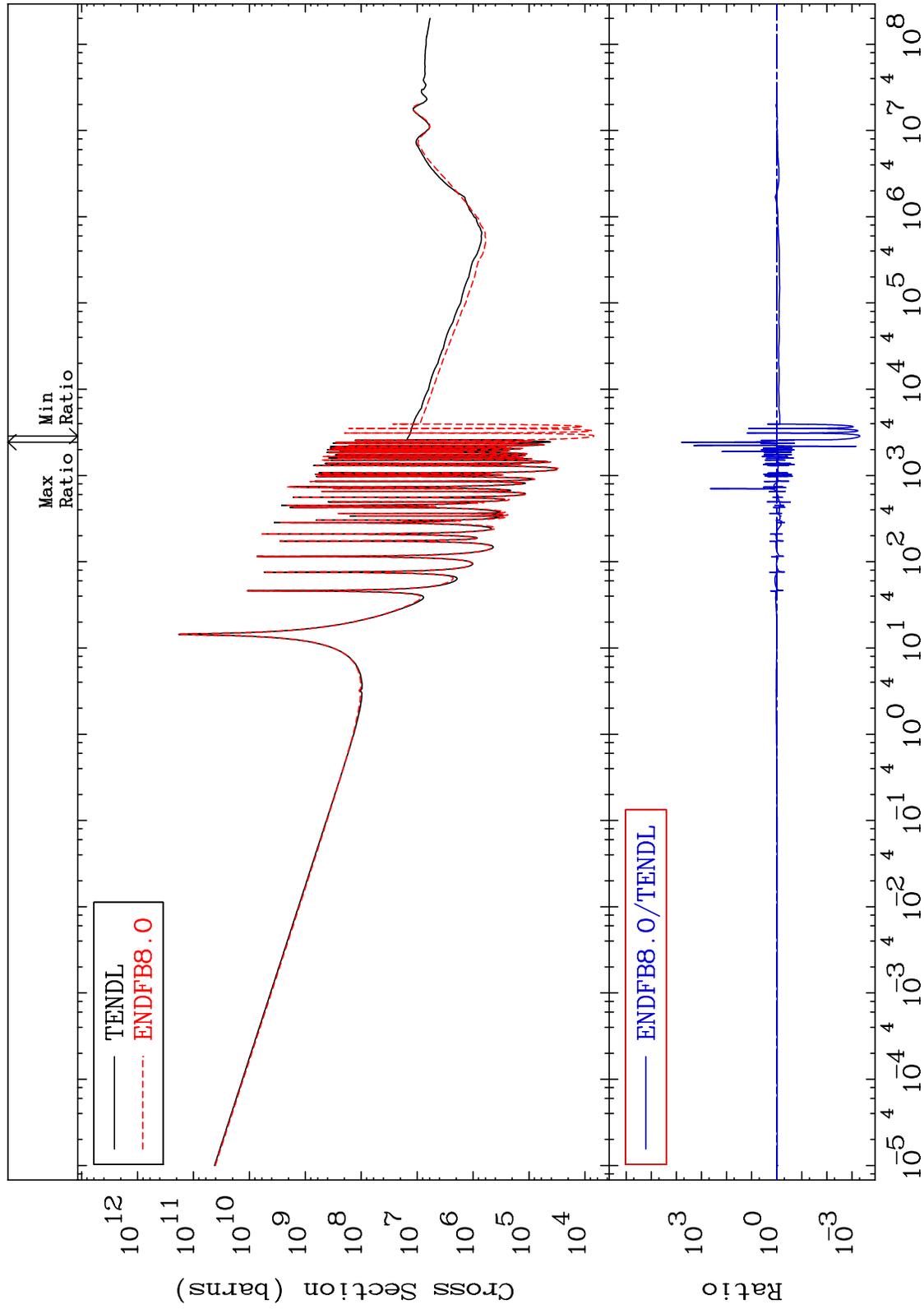
54-Xe-131
-99.94 To 9999. %



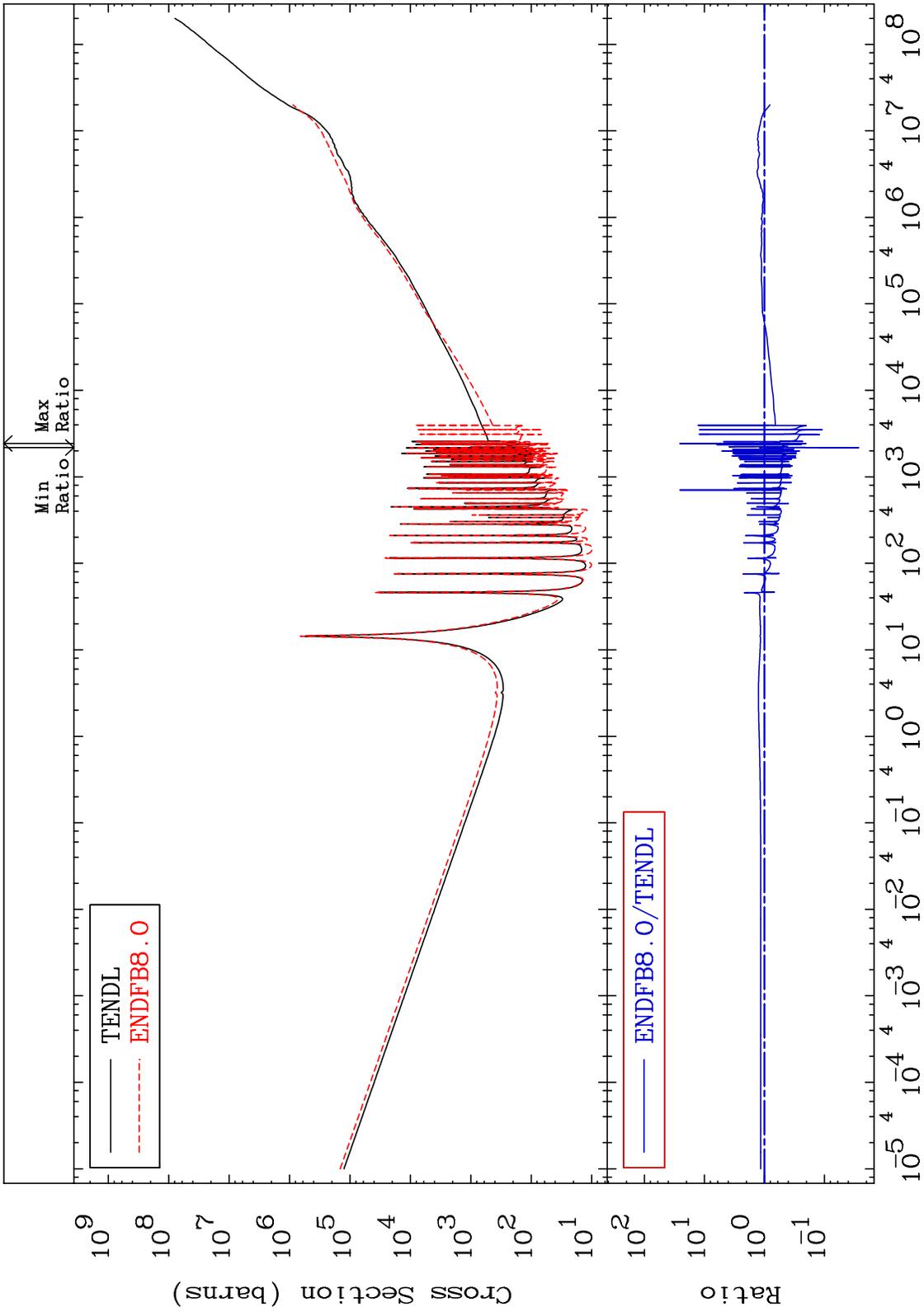
MAT 5446

Total photon (eV-barns)
Cross Section

54-Xe-131
-99.95 To 9999. %



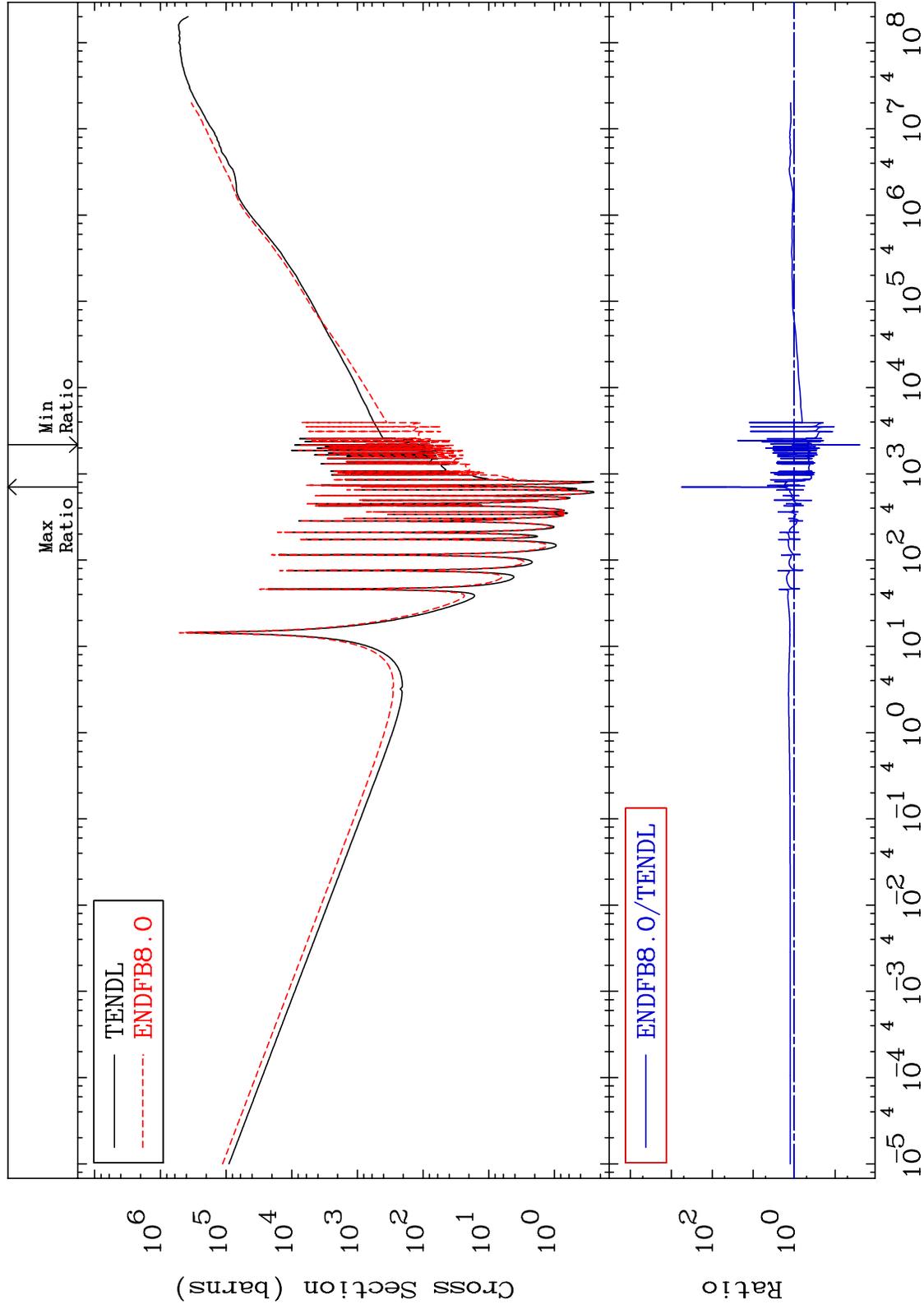
MAT 5446 Total kinematic kerma (high limit) 54-Xe-131
 Cross Section -97.33 To 2485. %



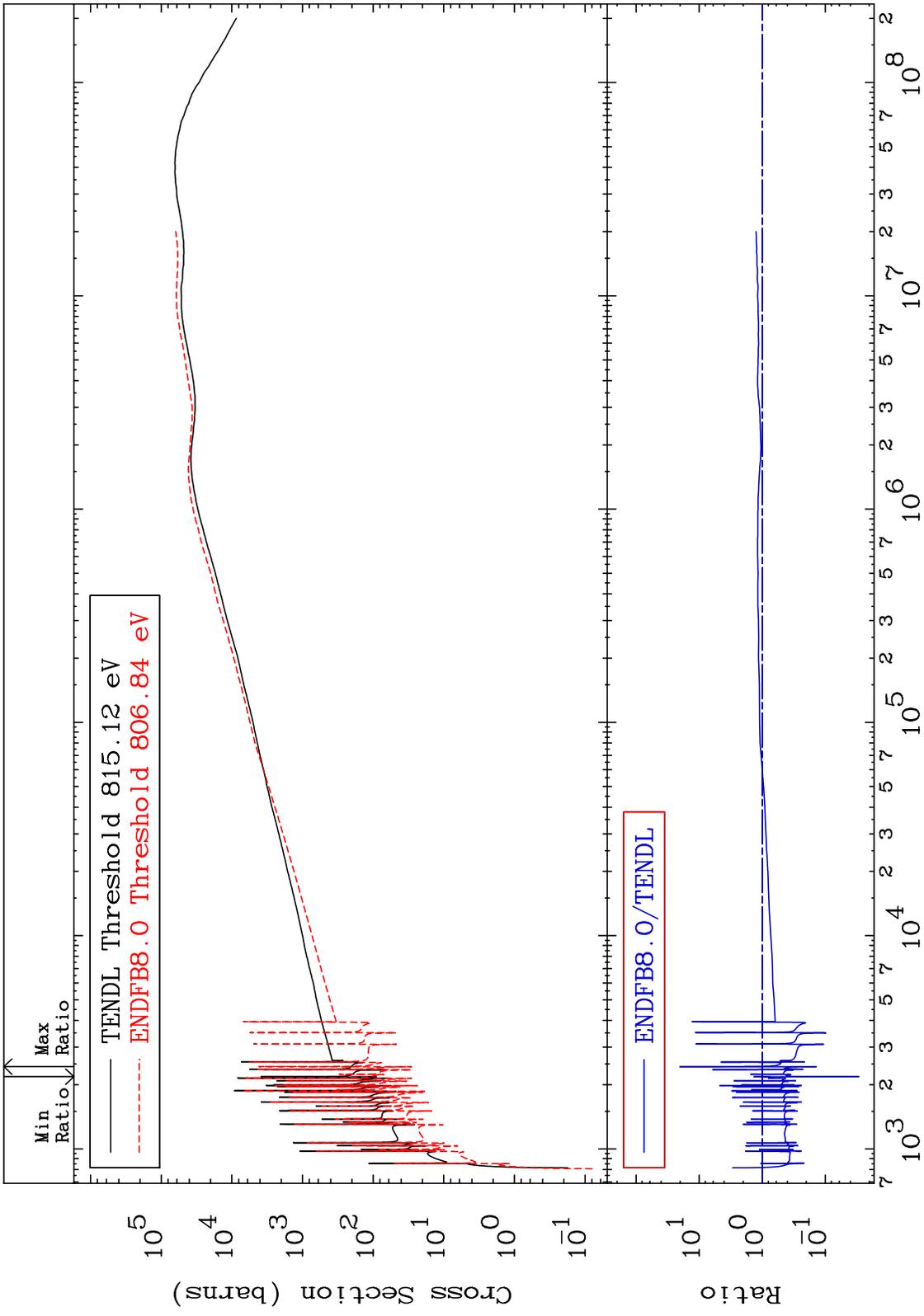
MAT 5446

Dpa total (eV-barns)
Cross Section

54-Xe-131
-97.52 To 9999. %

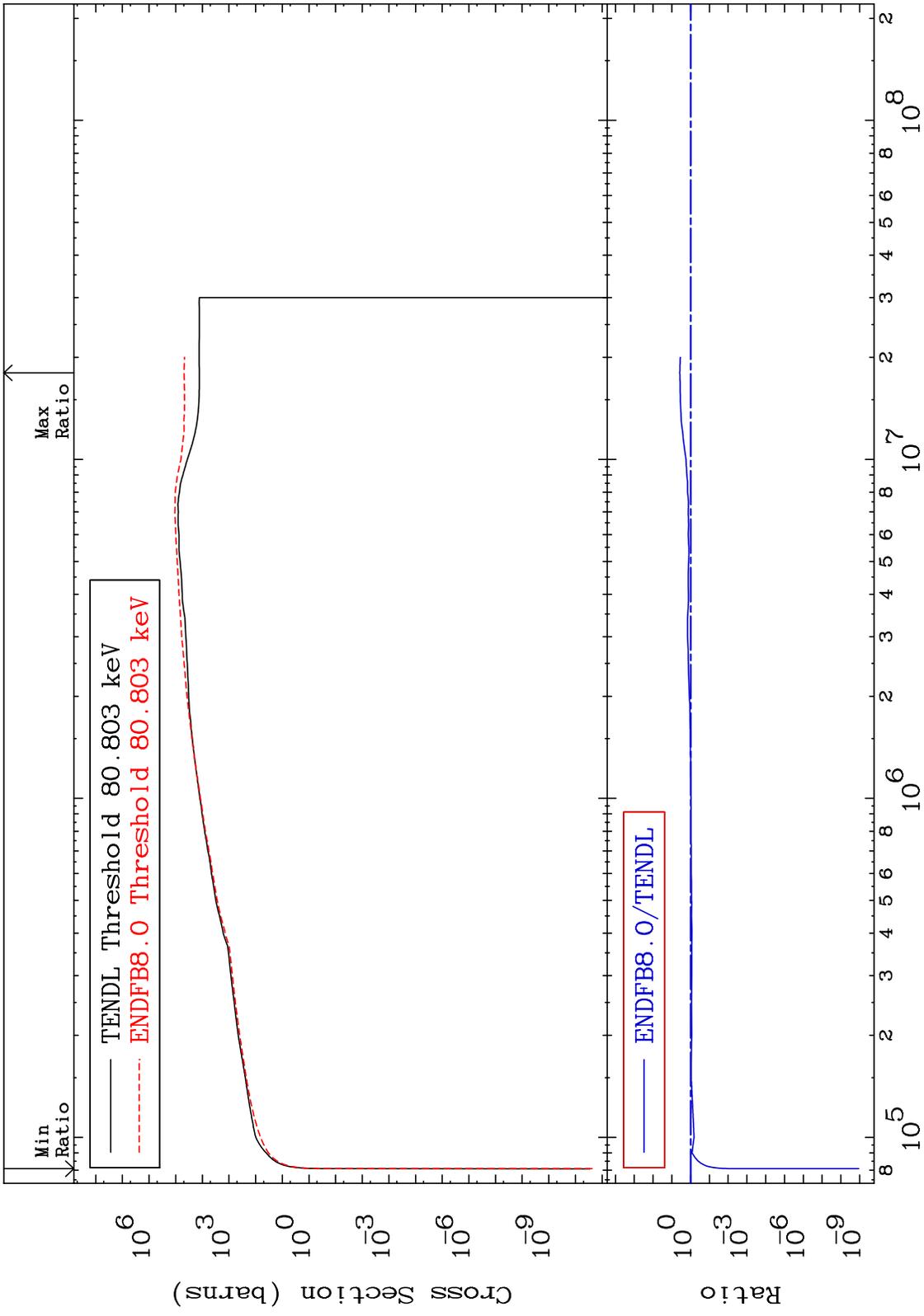


MAT 5446 Dpa elastic (mt2) 54-Xe-131
 Cross Section -97.06 To 1926. %



40 Incident Energy (eV) 54-Xe-131

MAT 5446 Dpa inelastic (mt51-91) 54-Xe-131
 Cross Section -100.0 To 277.9 %



MAT 5446

Dpa disappearance (mt102 -120)
Cross Section

54-Xe-131
-99.94 To 9999. %

