

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

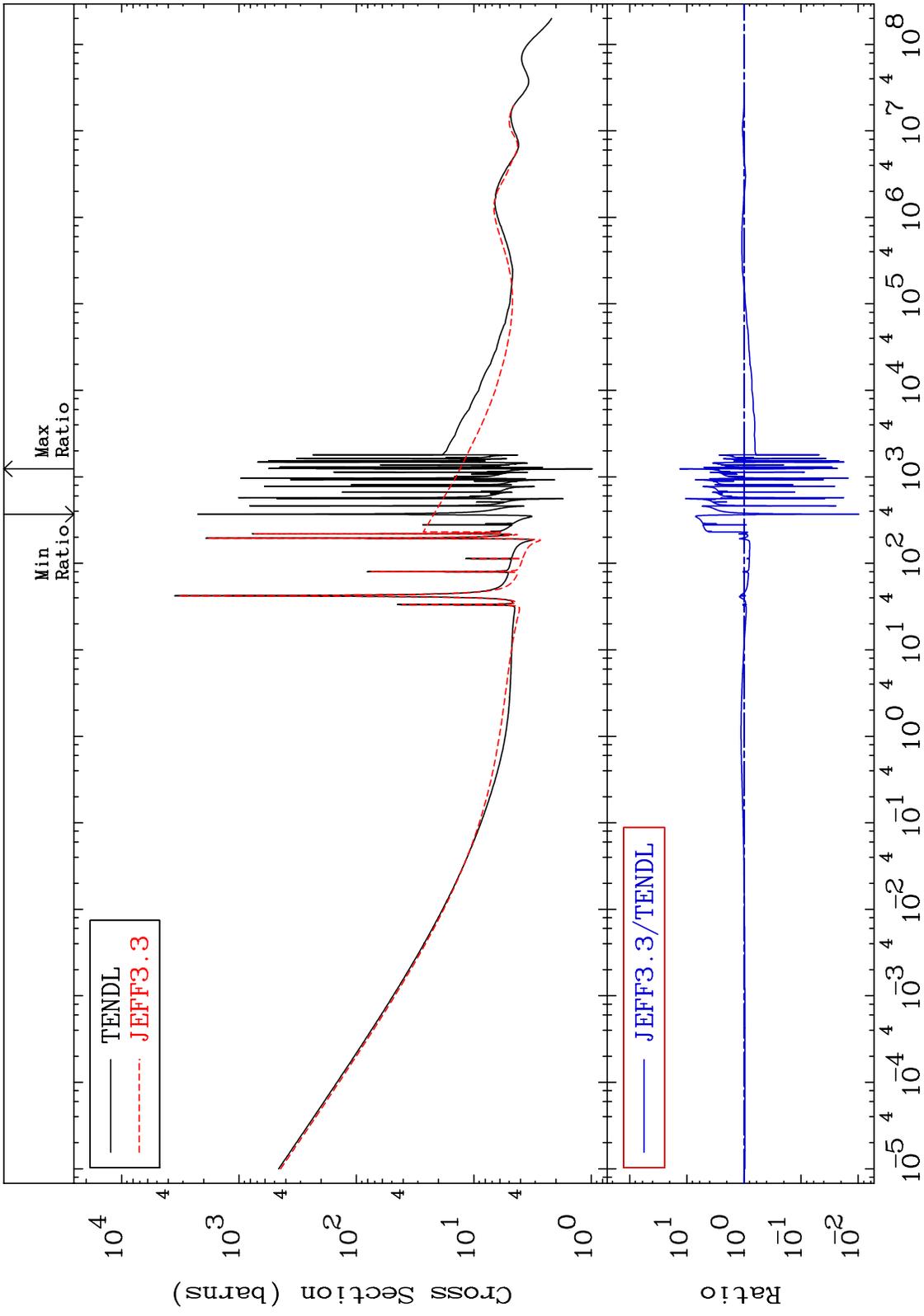
U.S.A.

Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 5531 55-Cs-135 -99.03 To 1232. %
Total Cross Section

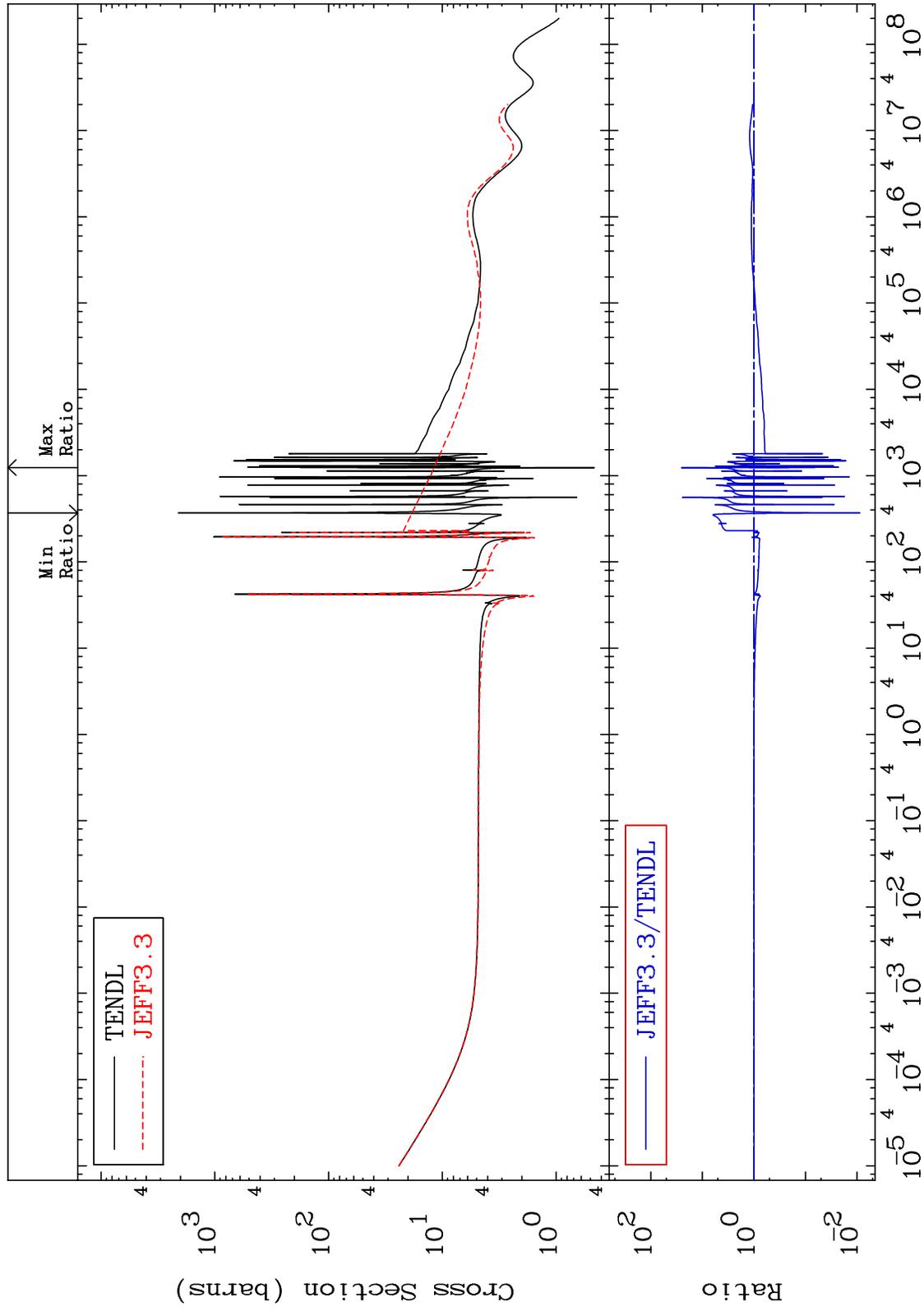


1 Incident Energy (eV) 55-Cs-135

MAT 5531

Elastic
Cross Section

55-Cs-135
-99.12 To 2447. %



2

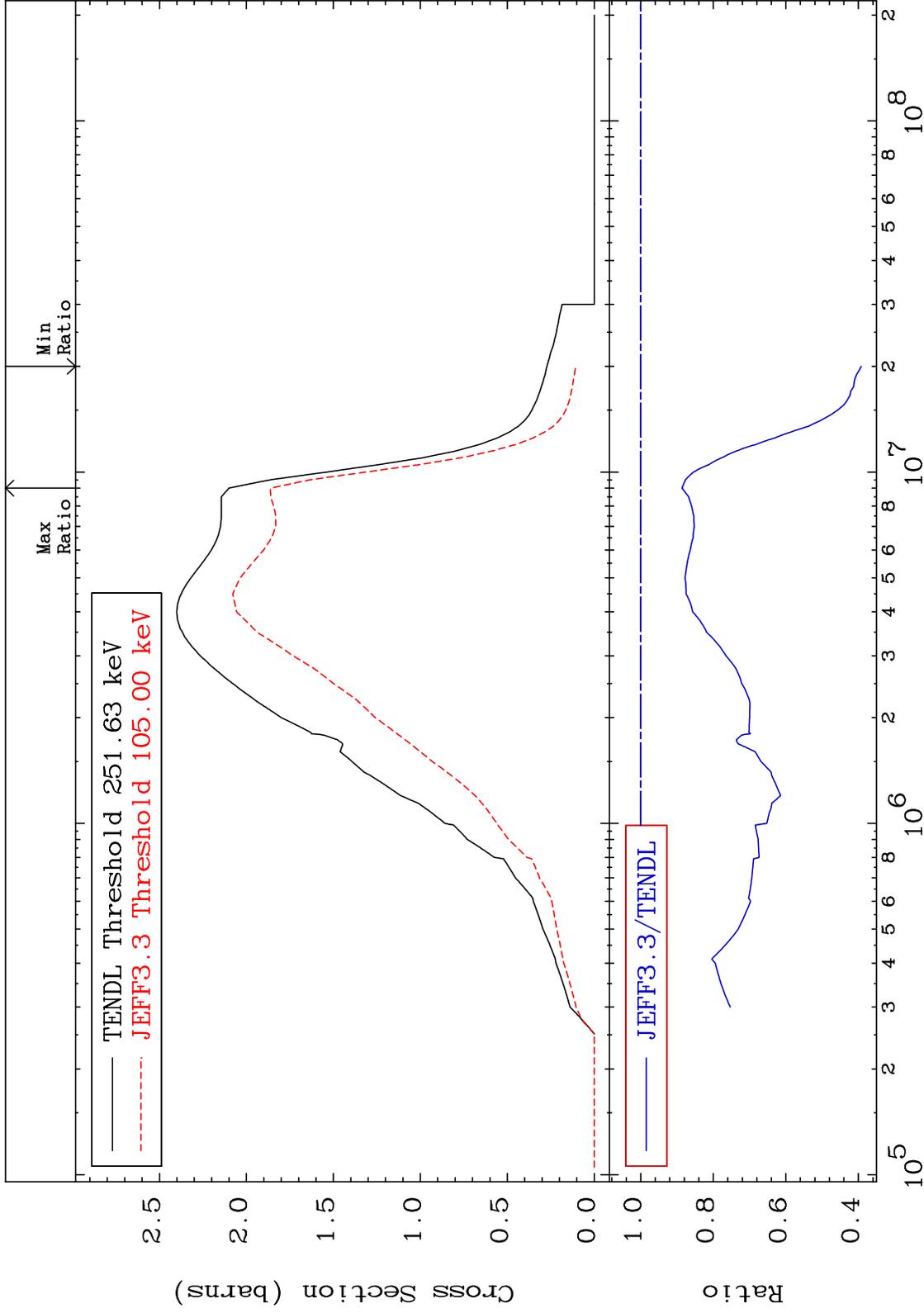
Incident Energy (eV)

55-Cs-135

MAT 5531

Inelastic
Cross Section

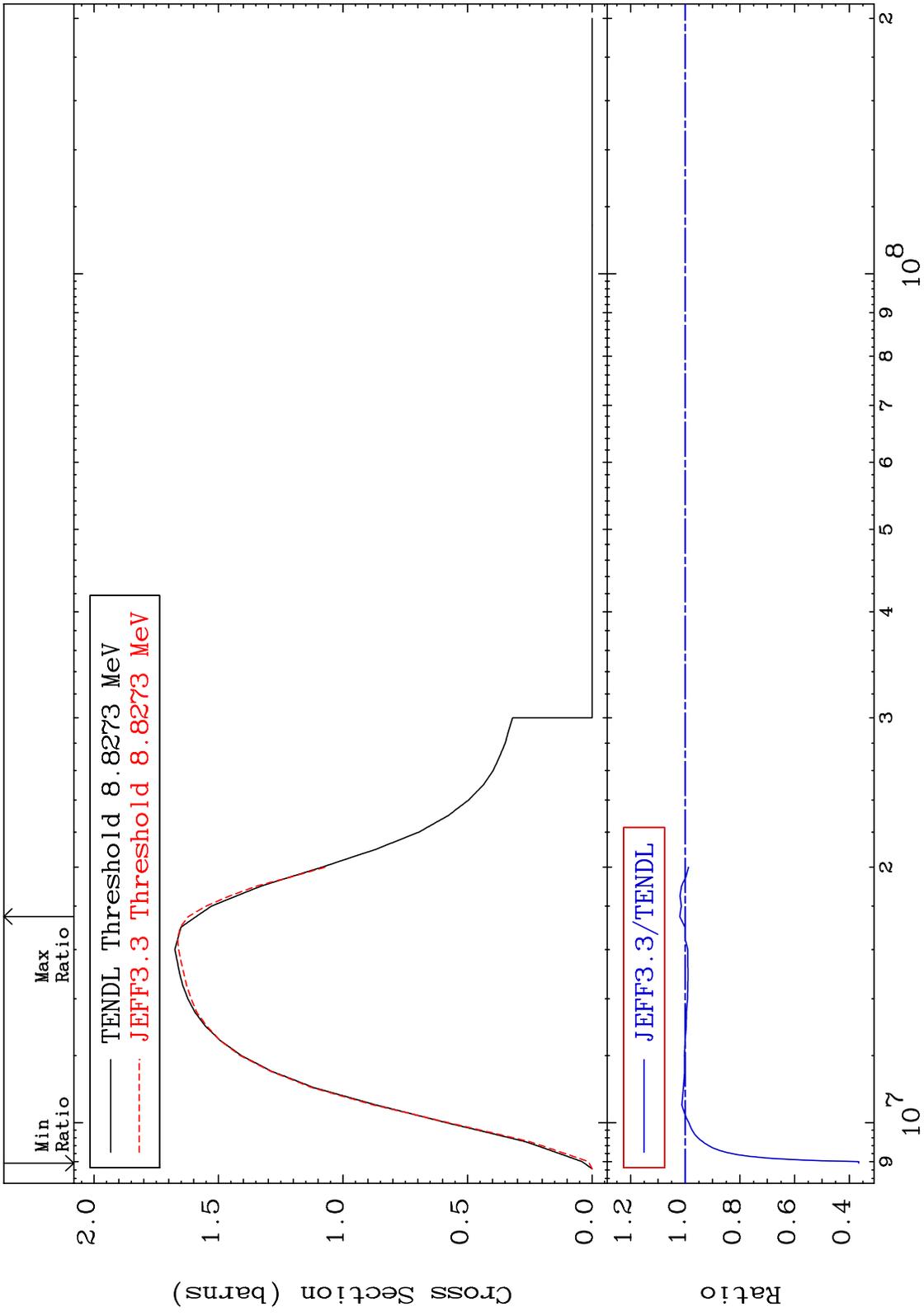
55-Cs-135
-60.78 To -11.38%



Incident Energy (eV)

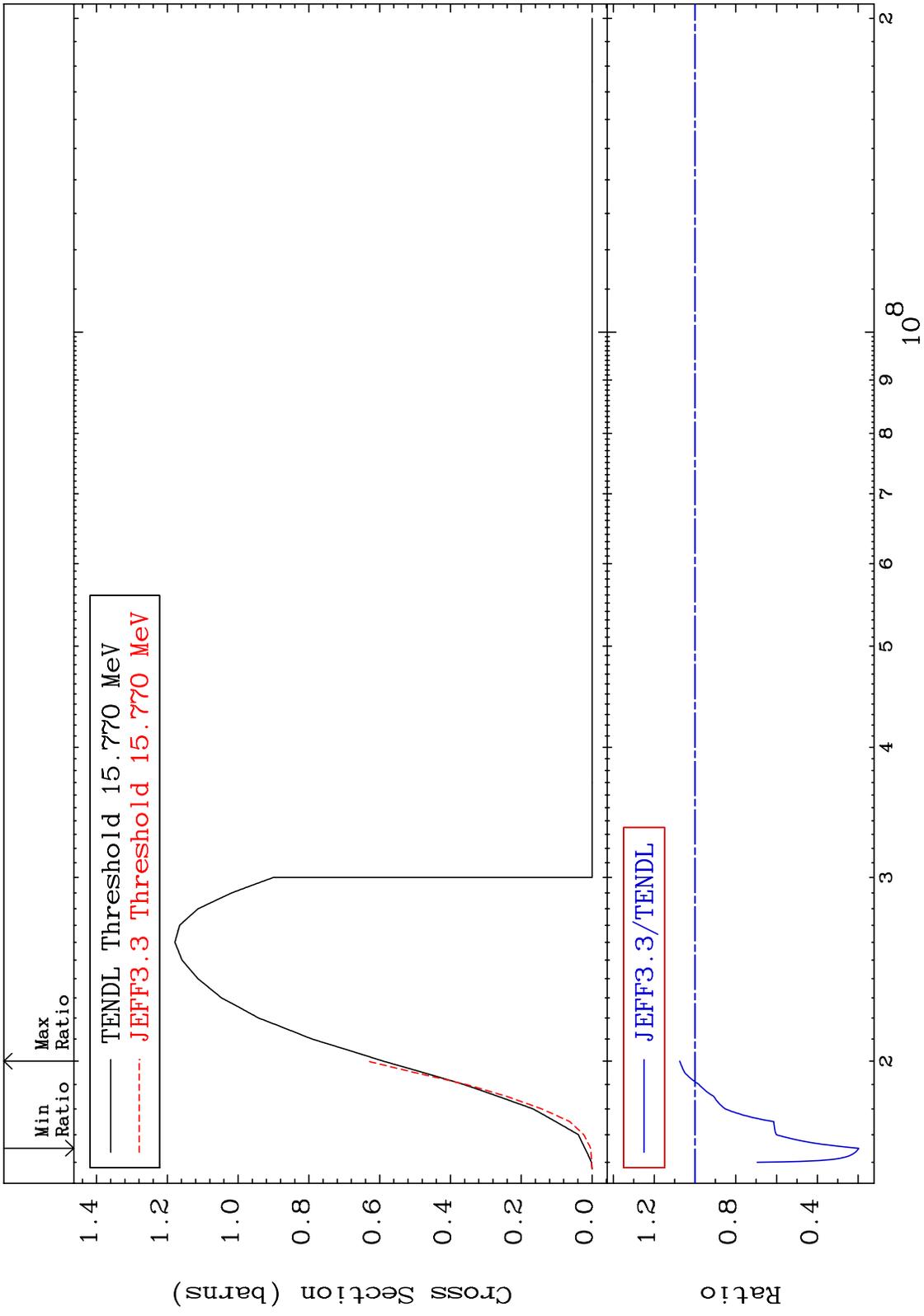
55-Cs-135

MAT 5531 $(n,2n)$ Cross Section 55-Cs-135 -63.47 To 2.009 %

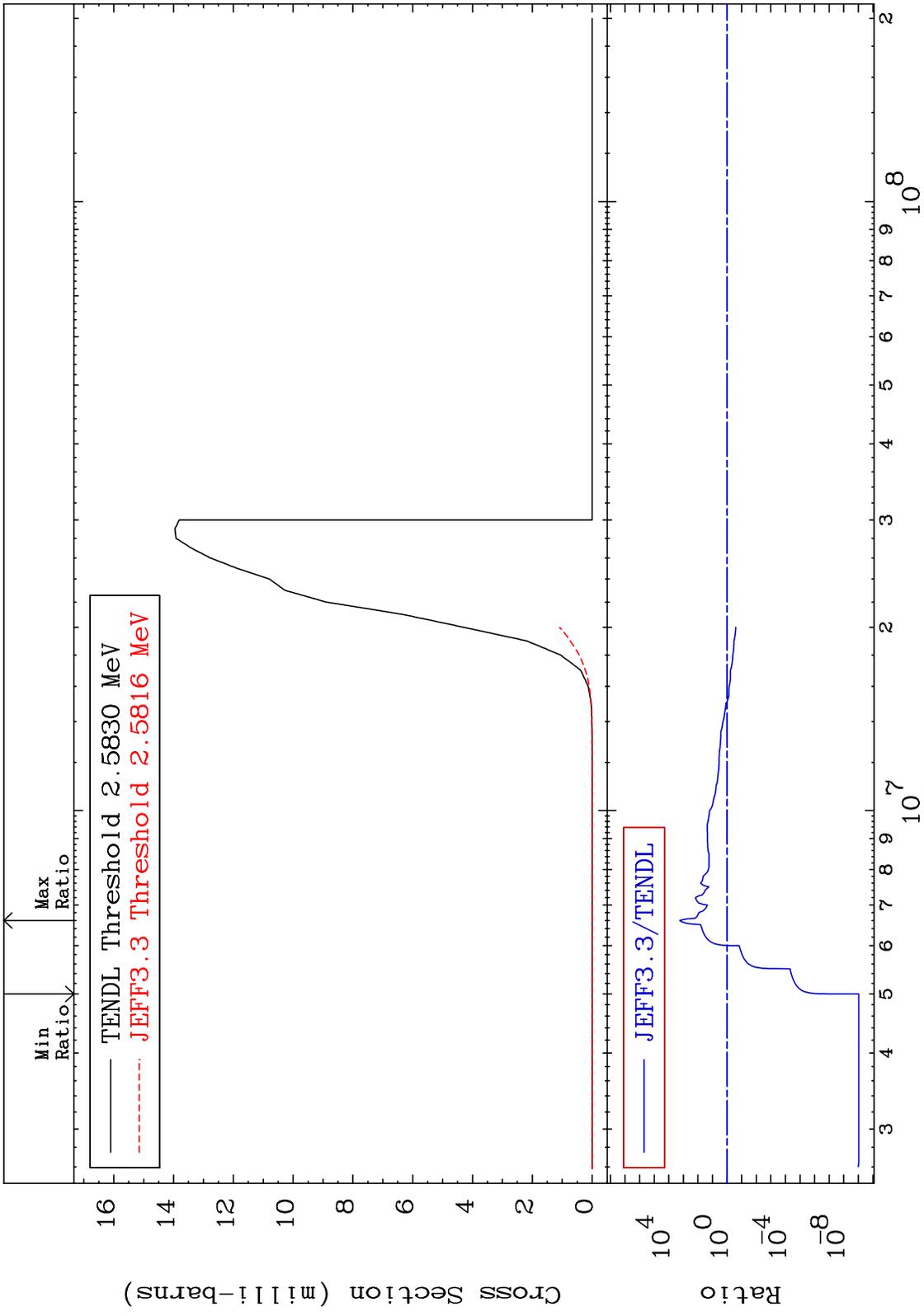


4 55-Cs-135

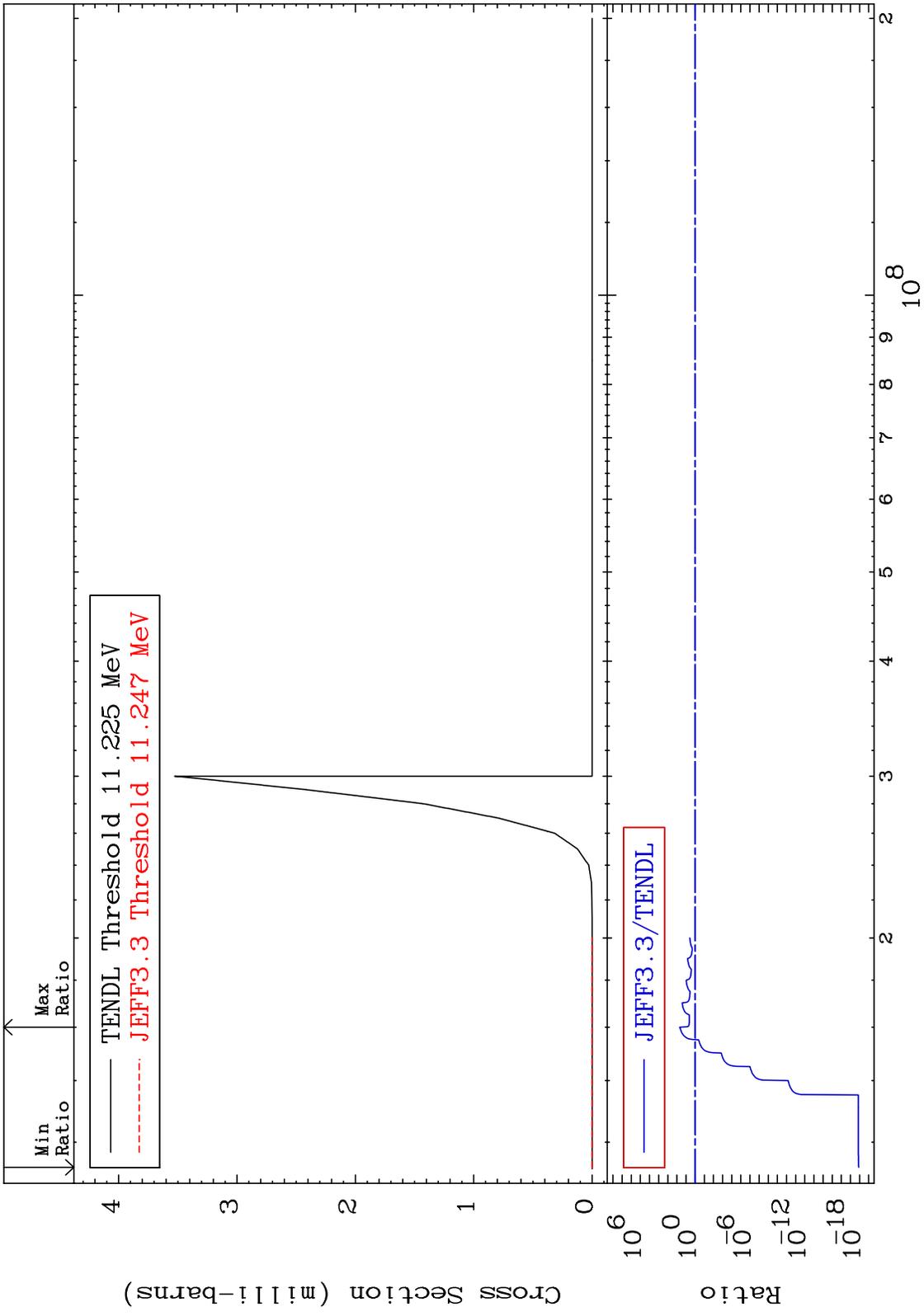
MAT 5531 (n,3n) Cross Section 55-Cs-135 -80.29 To 7.467 %



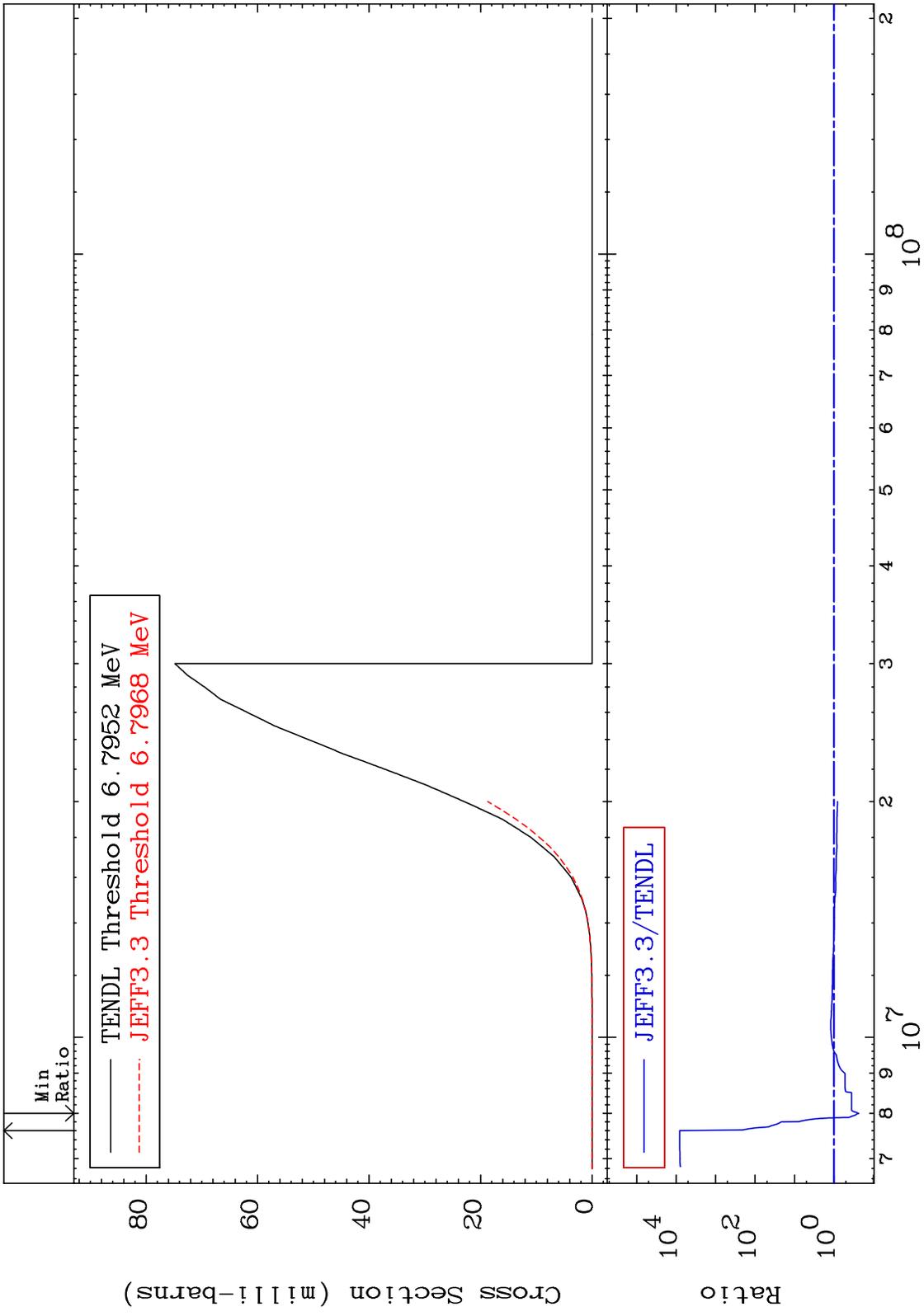
MAT 5531 $(n, n') \alpha$ 55-Cs-135
 -100.0 To 9999. %
 Cross Section



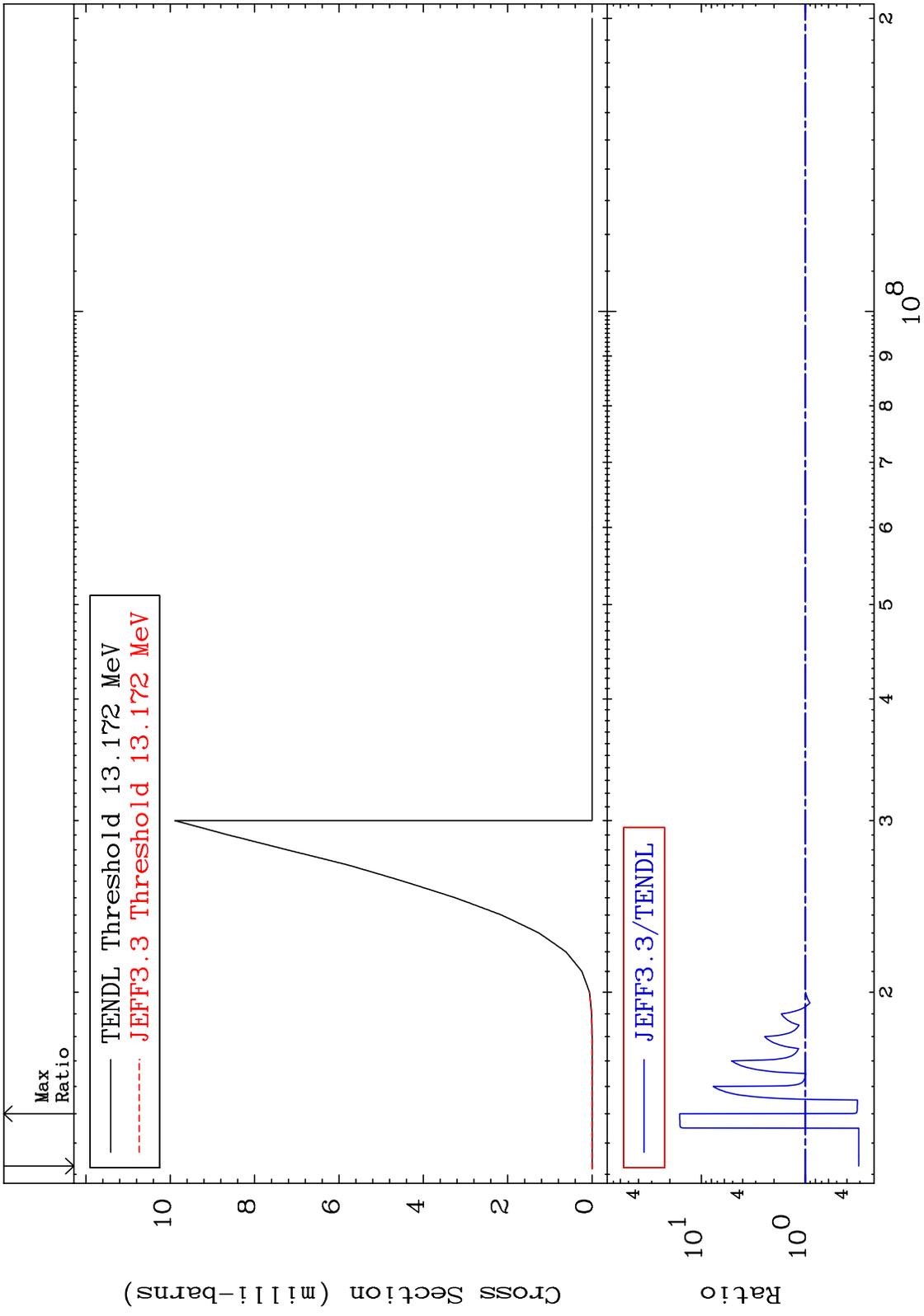
MAT 5531 $(n, 2n) \alpha$ $^{55}\text{Cs-135}$
 Cross Section -100.0 To 4792. %



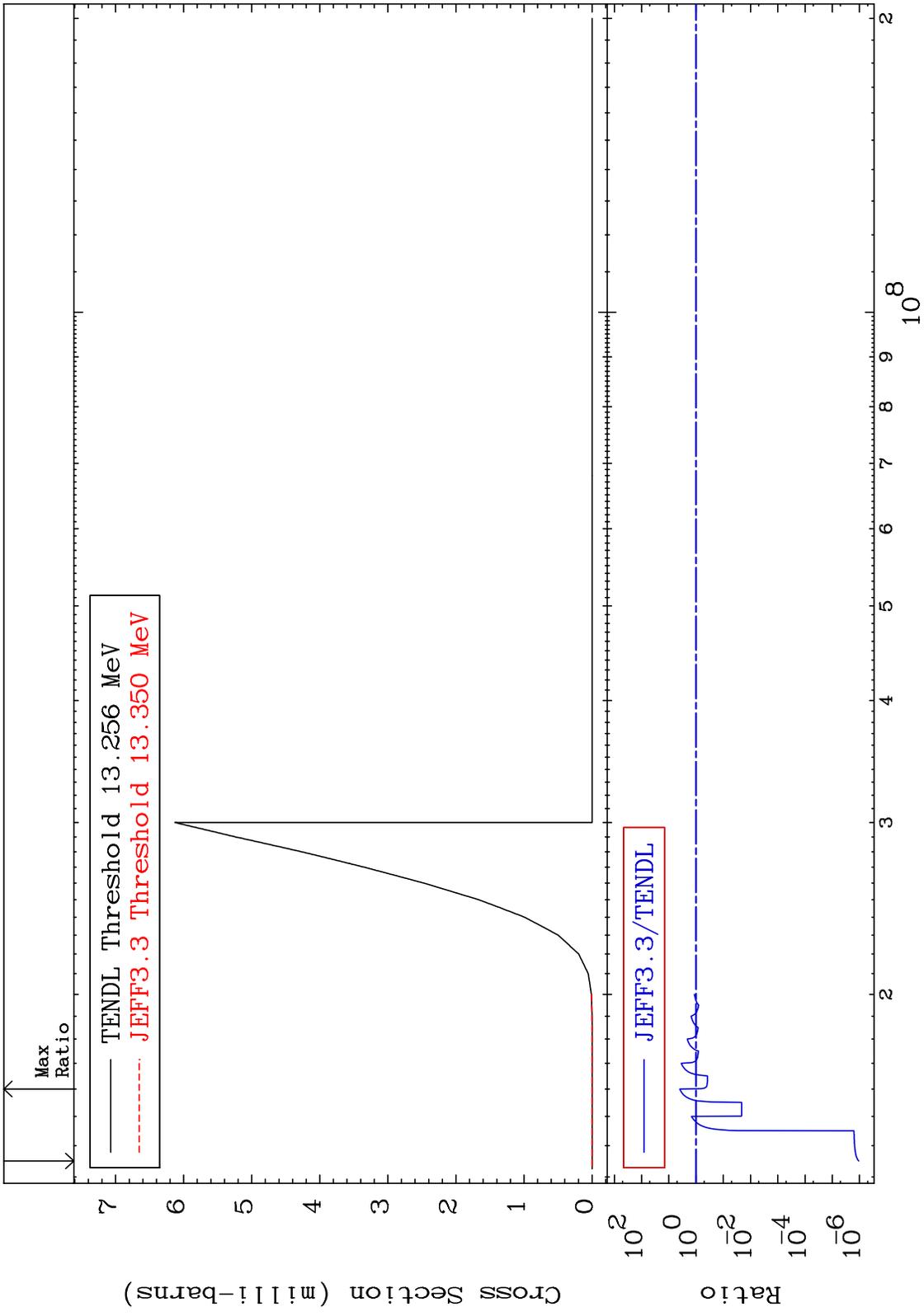
MAT 5531 (n,n') p 55-Cs-135
 Cross Section -76.46 To 9999. %



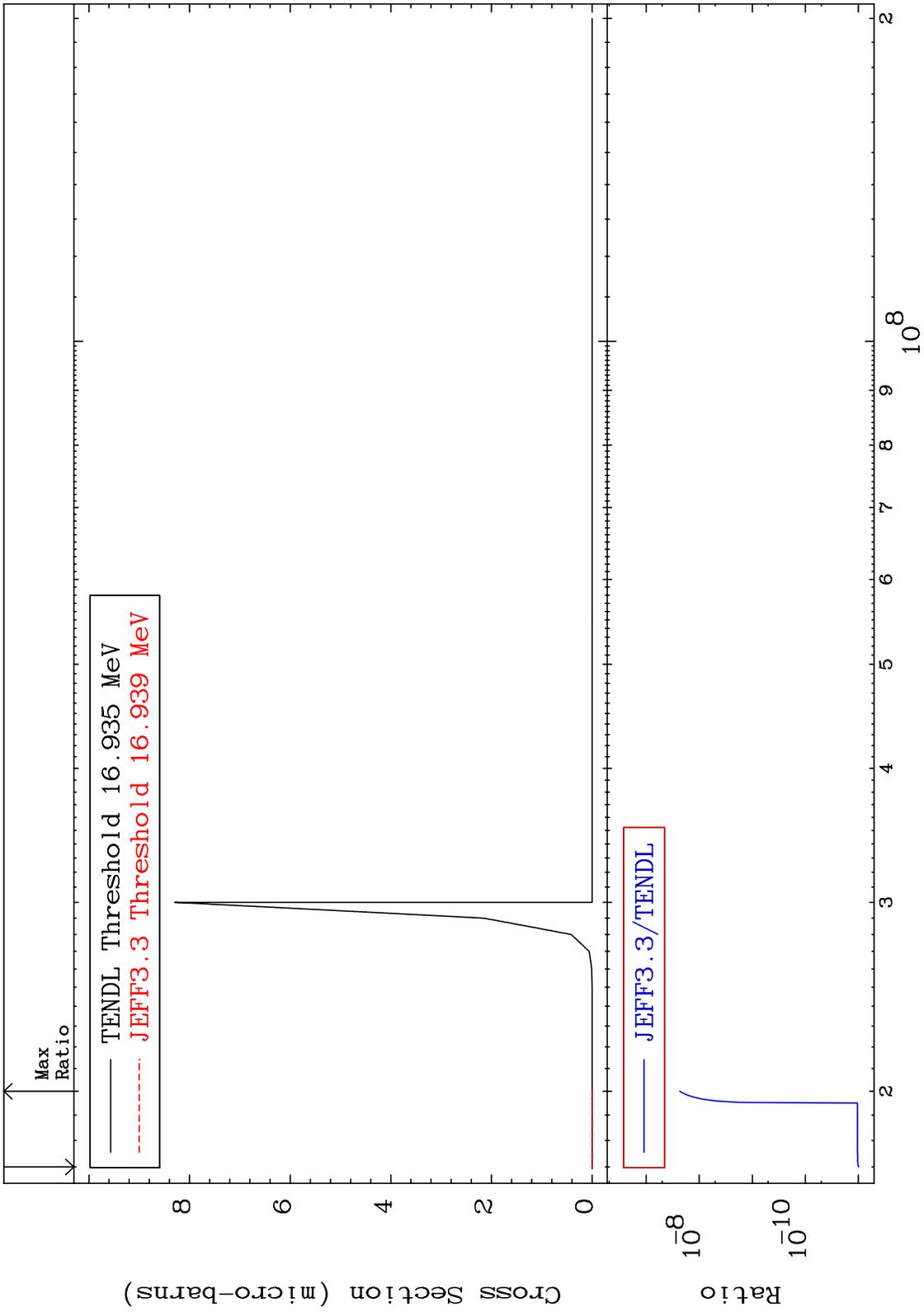
MAT 5531 (n,n') d 55-Cs-135
 Cross Section -69.29 To 1510. %



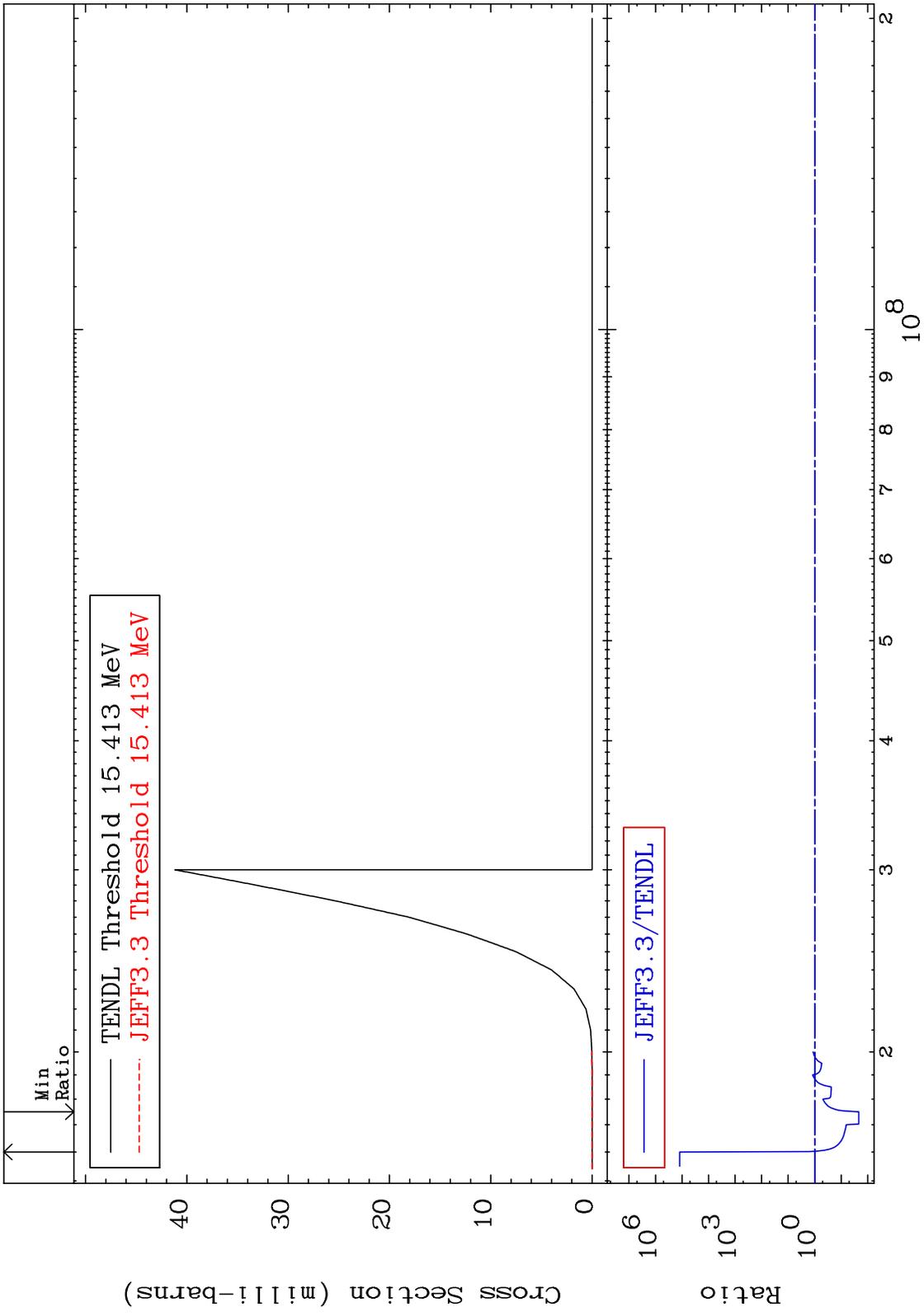
MAT 5531 (n,n') t 55-Cs-135
 Cross Section -100.0 To 297.3 %



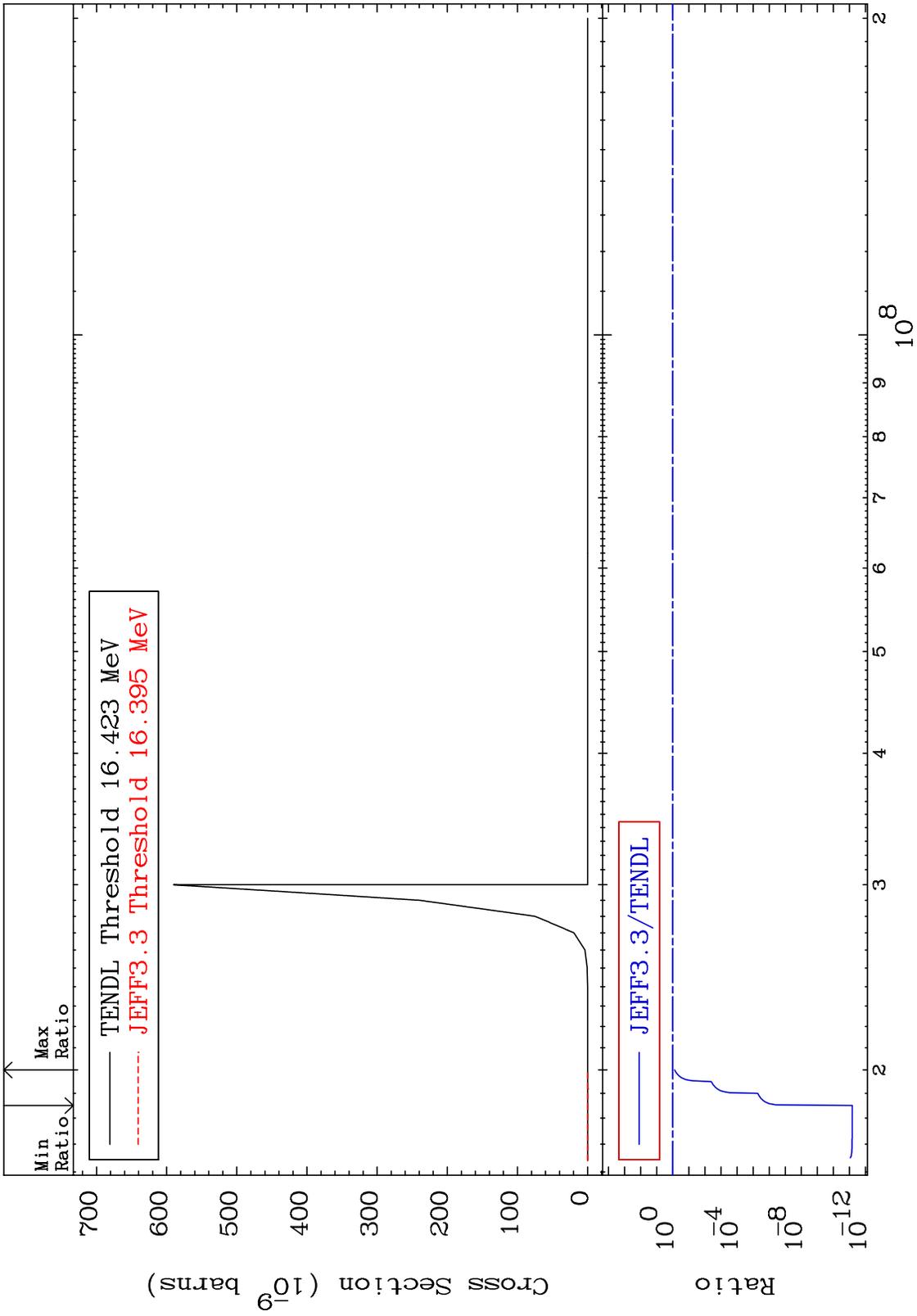
MAT 5531 (n, n') He-3 55-Cs-135
 Cross Section -100.0 To -100.0%



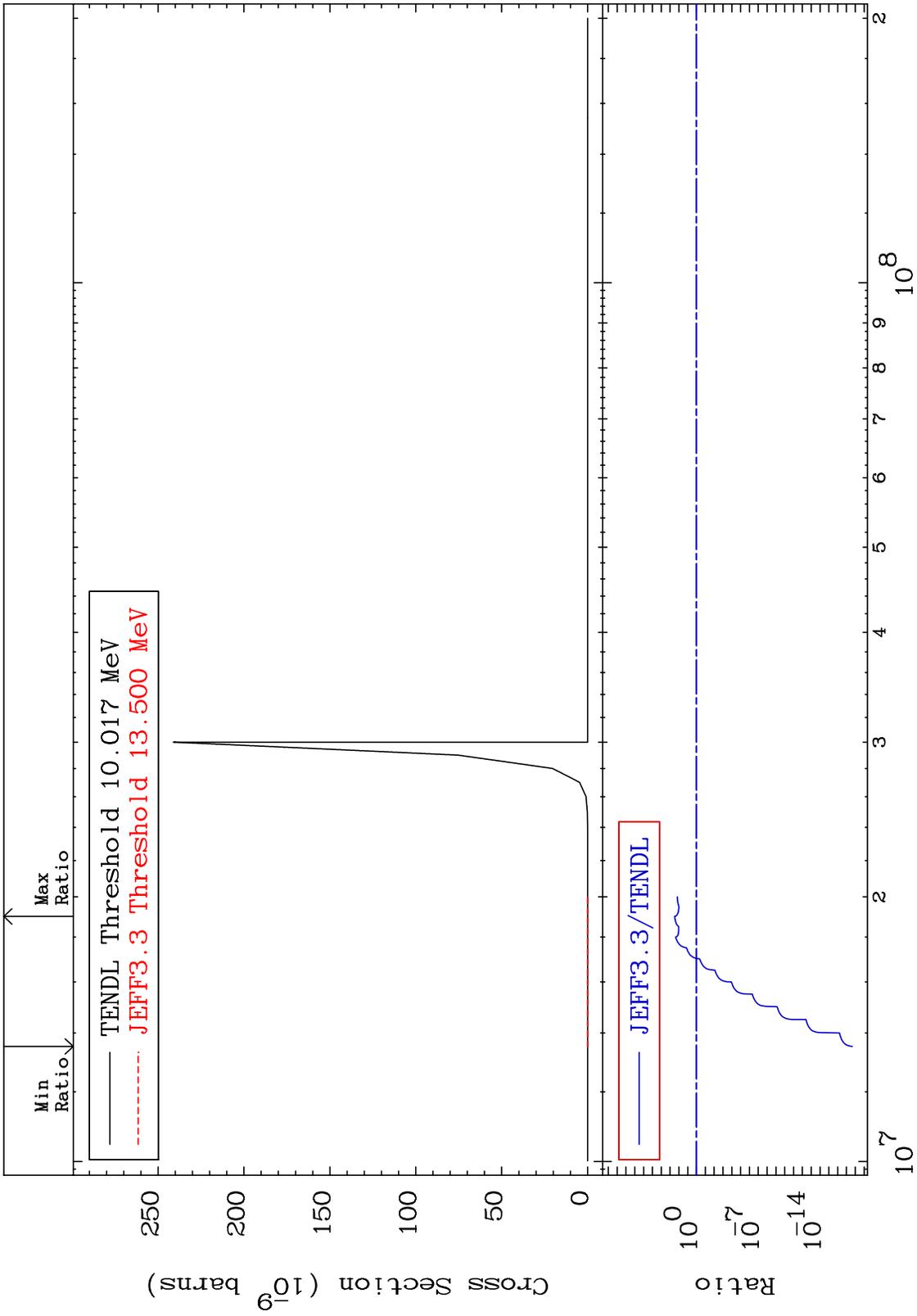
MAT 5531 (n,2n) p 55-Cs-135
 Cross Section -97.83 To 9999. %



MAT 5531 (n,2n) p 55-Cs-135
 Cross Section -100.0 To -22.70%

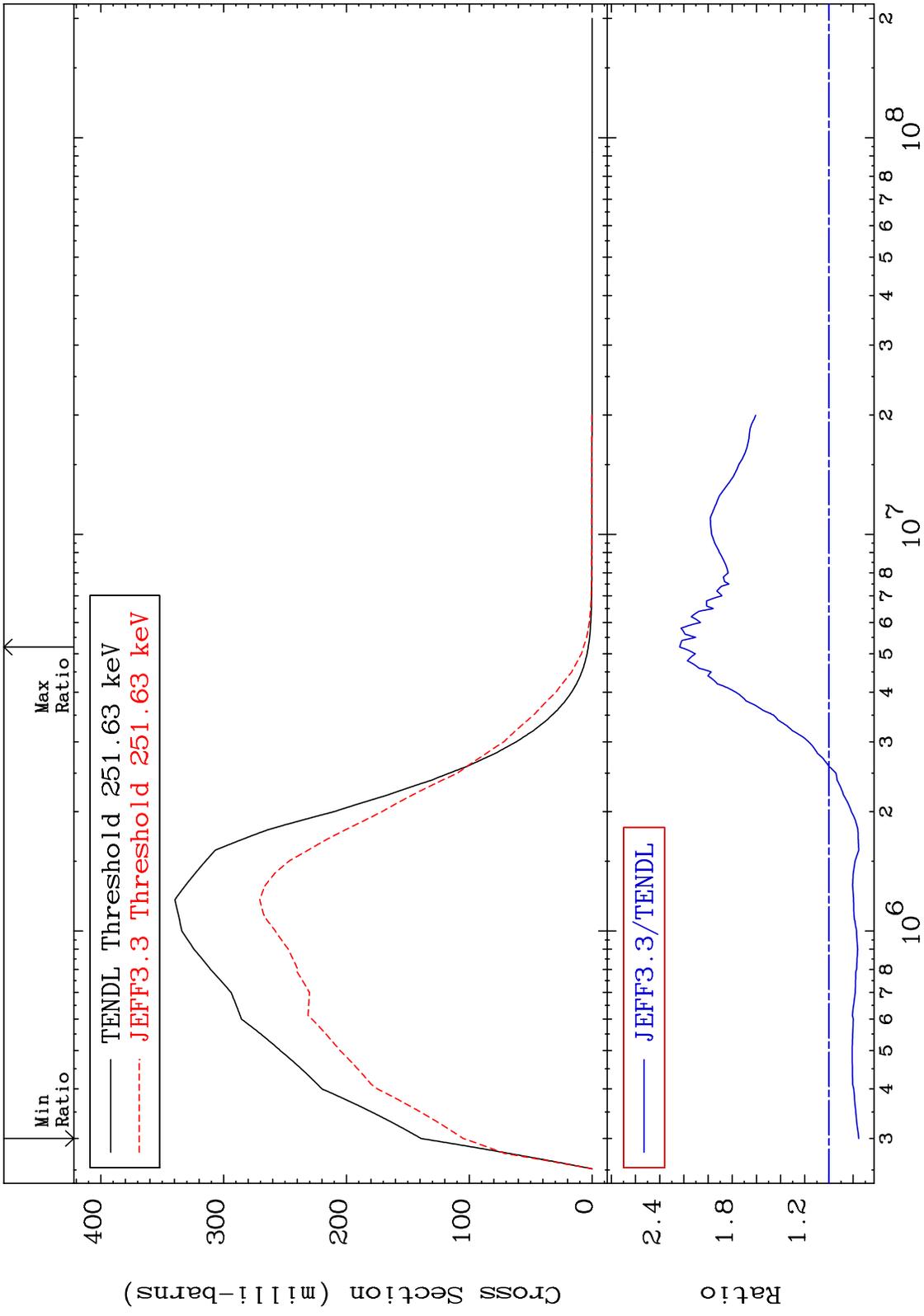


MAT 5531 (n,n') p α 55-Cs-135
 Cross Section -100.0 To 9999. %



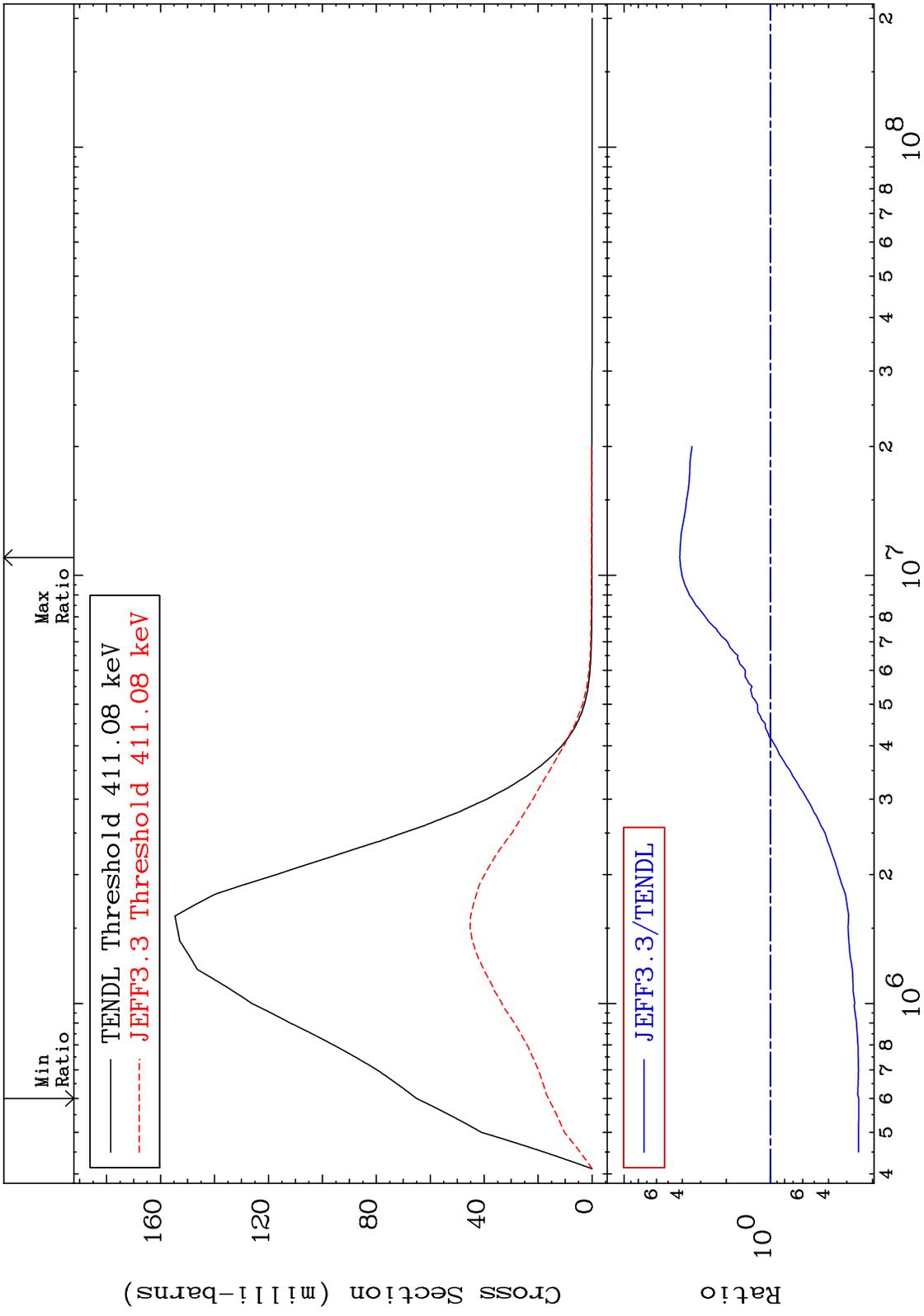
14 55-Cs-135 Incident Energy (eV)

MAT 5531 MT= 51 (n,n') Level Cross Section 55-Cs-135
 -24.68 To 123.4 %

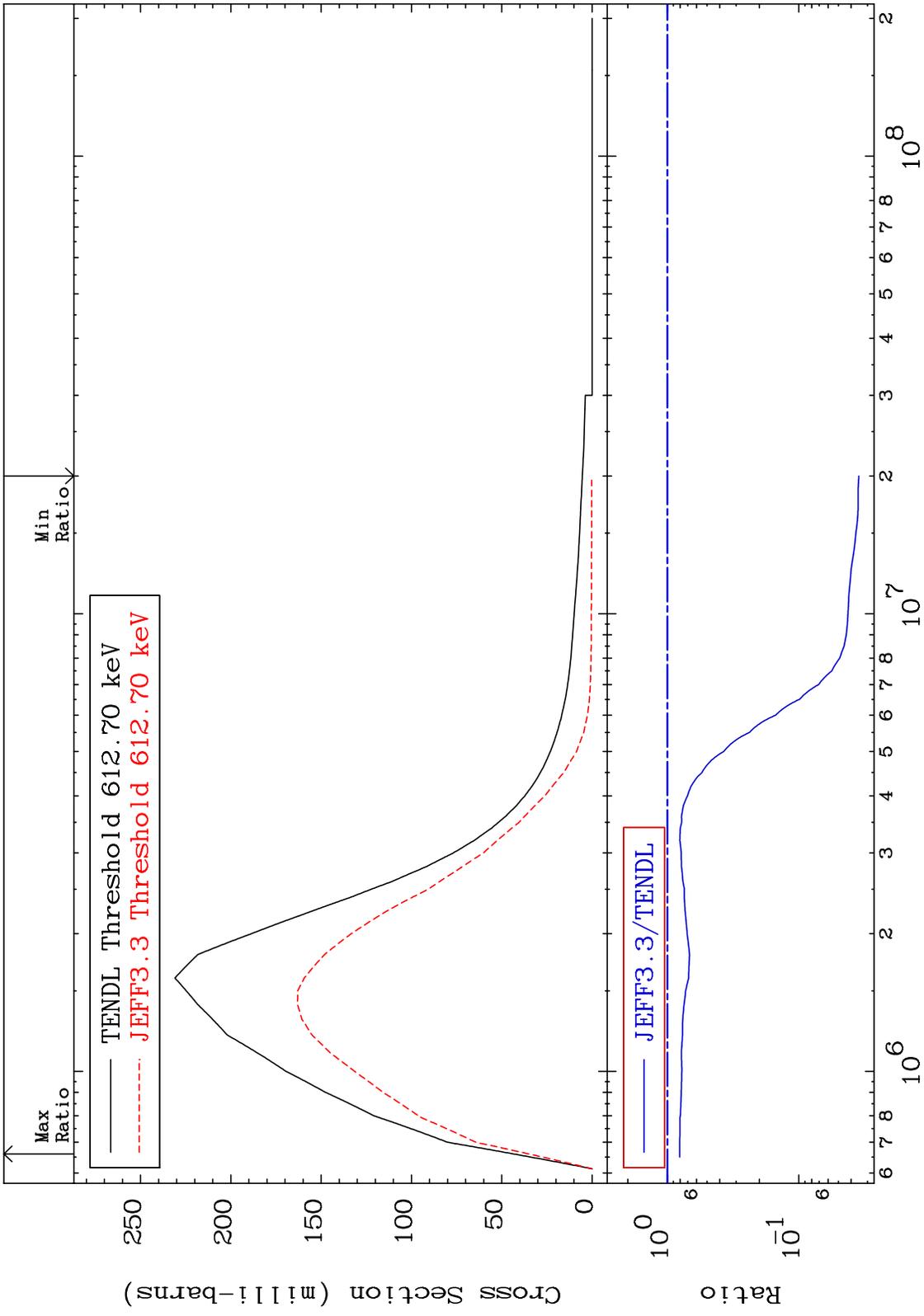


15 55-Cs-135

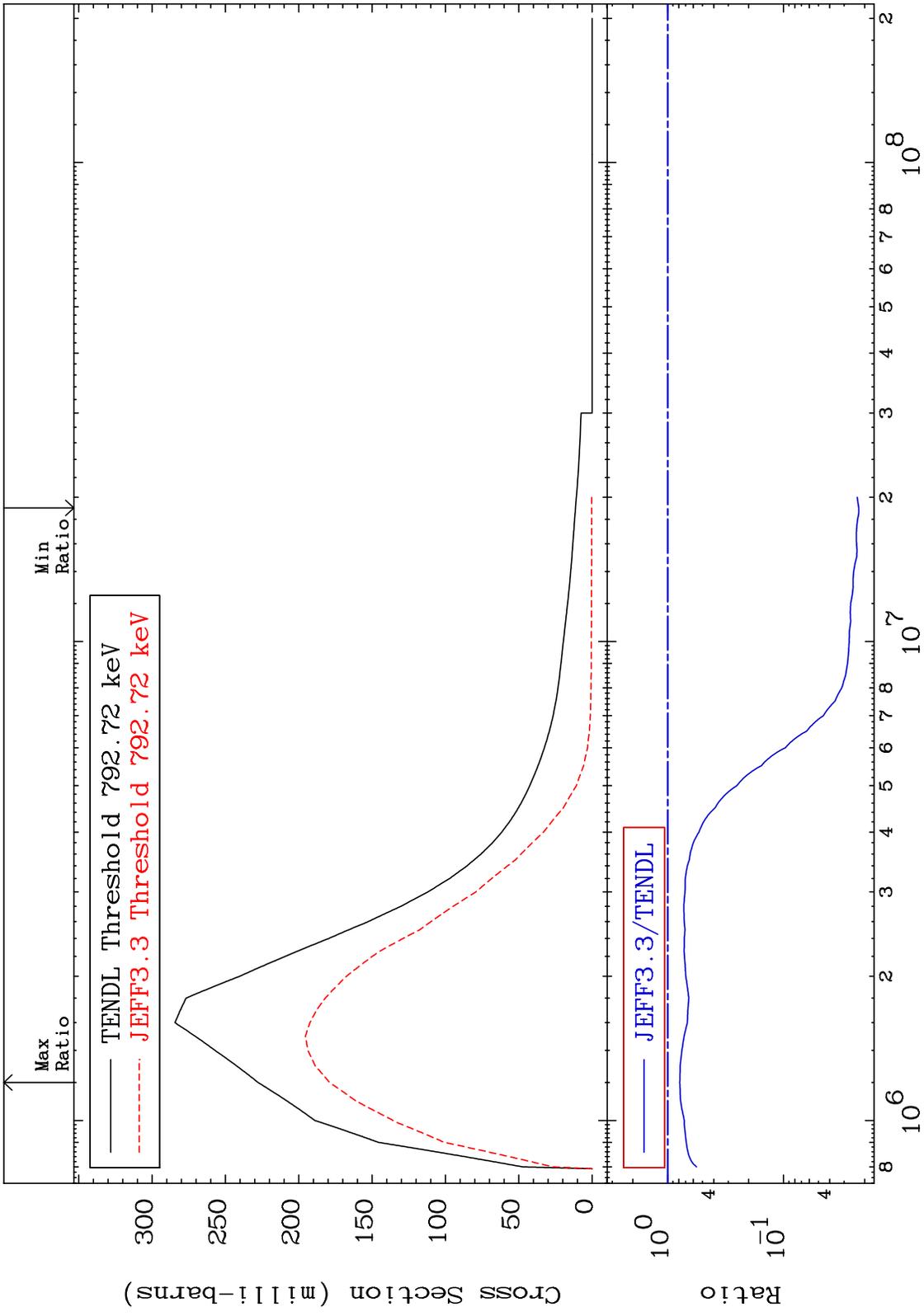
MAT 5531 MT= 52 (n,n') Level Cross Section 55-Cs-135
 -75.17 To 316.5 %



MAT 5531 MT= 53 (n,n') Level Cross Section 55-Cs-135 -96.50 To -19.50%



MAT 5531 MT= 54 (n,n') Level Cross Section 55-Cs-135 -97.76 To -21.38%

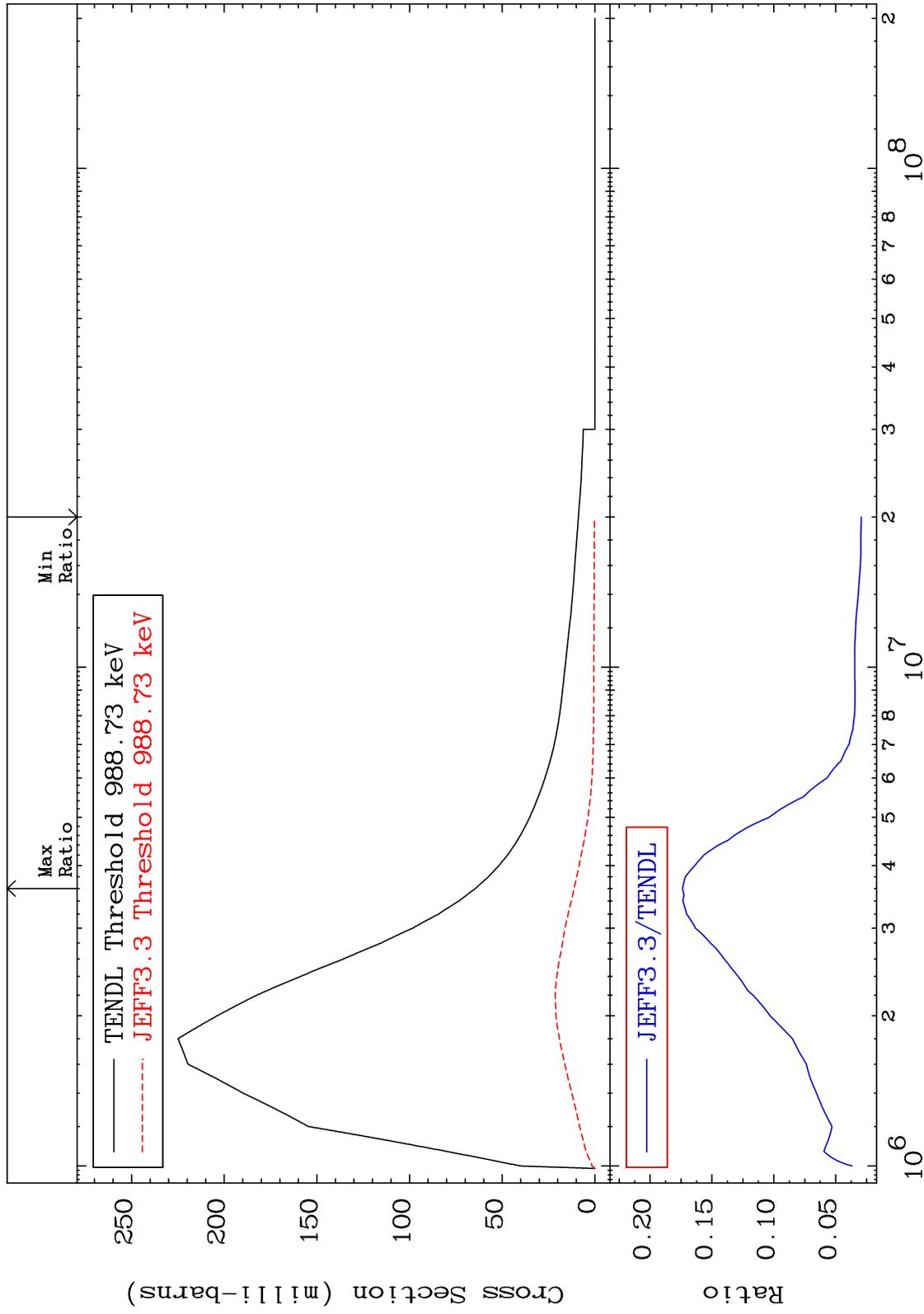


18 55-Cs-135 Incident Energy (eV)

MAT 5531

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

55-Cs-135
-97.07 To -82.61%

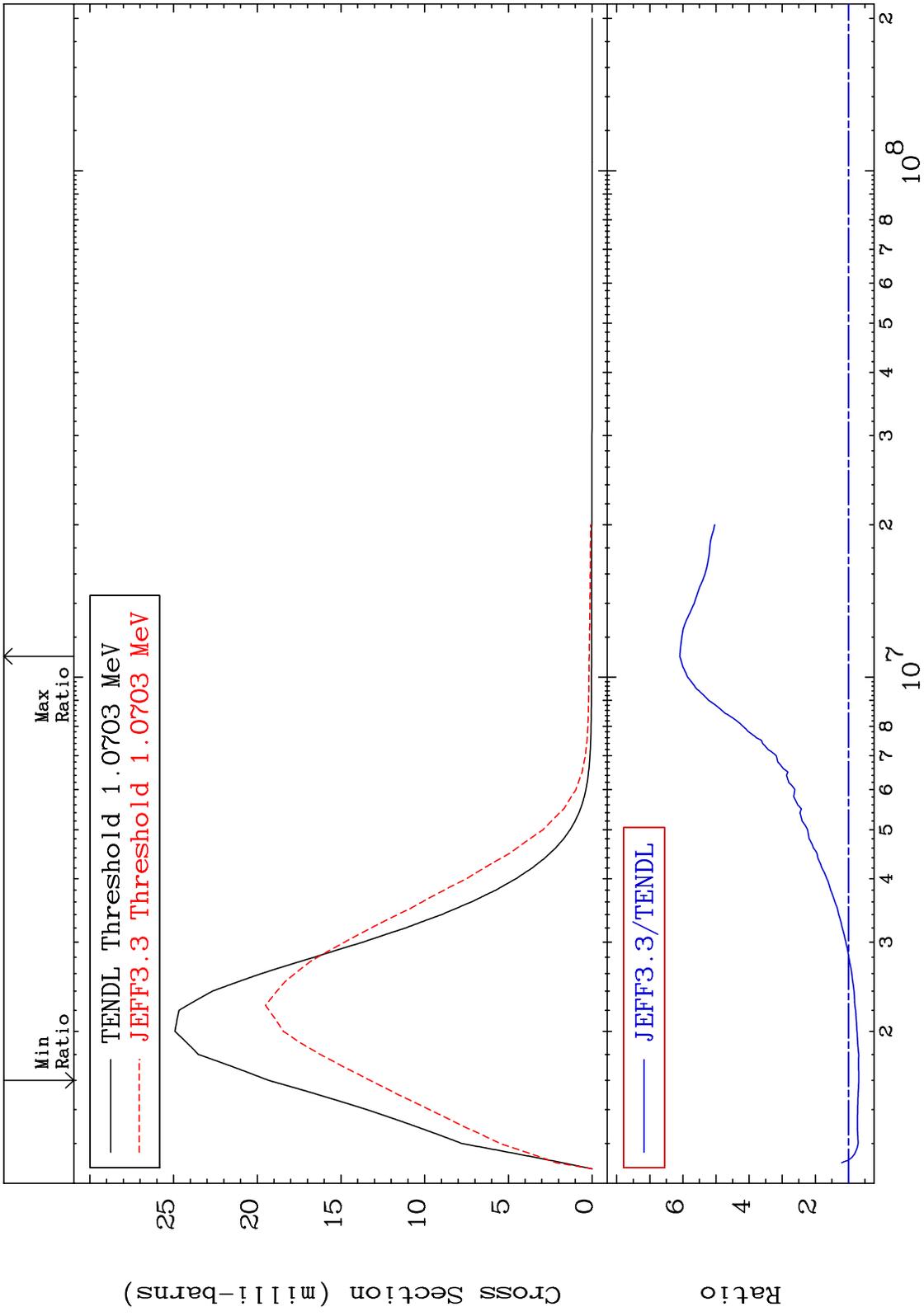


Incident Energy (eV)

55-Cs-135

19

MAT 5531 MT= 56 (n,n') Level Cross Section 55-Cs-135
 -31.40 To 509.6 %

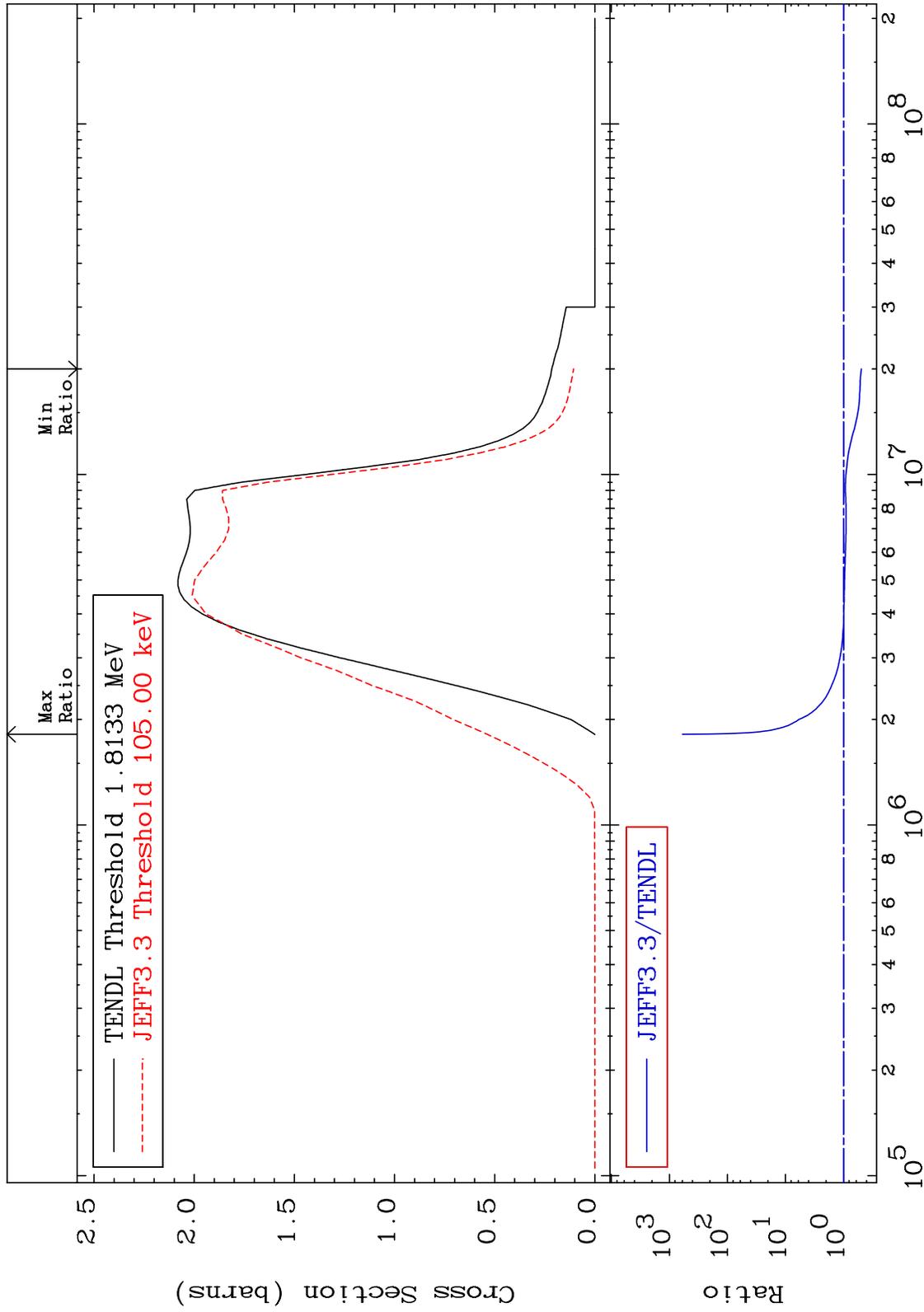


20 Incident Energy (eV) 55-Cs-135

MAT 5531

(n,n') Continuum
Cross Section

55-Cs-135
-50.76 To 9999. %



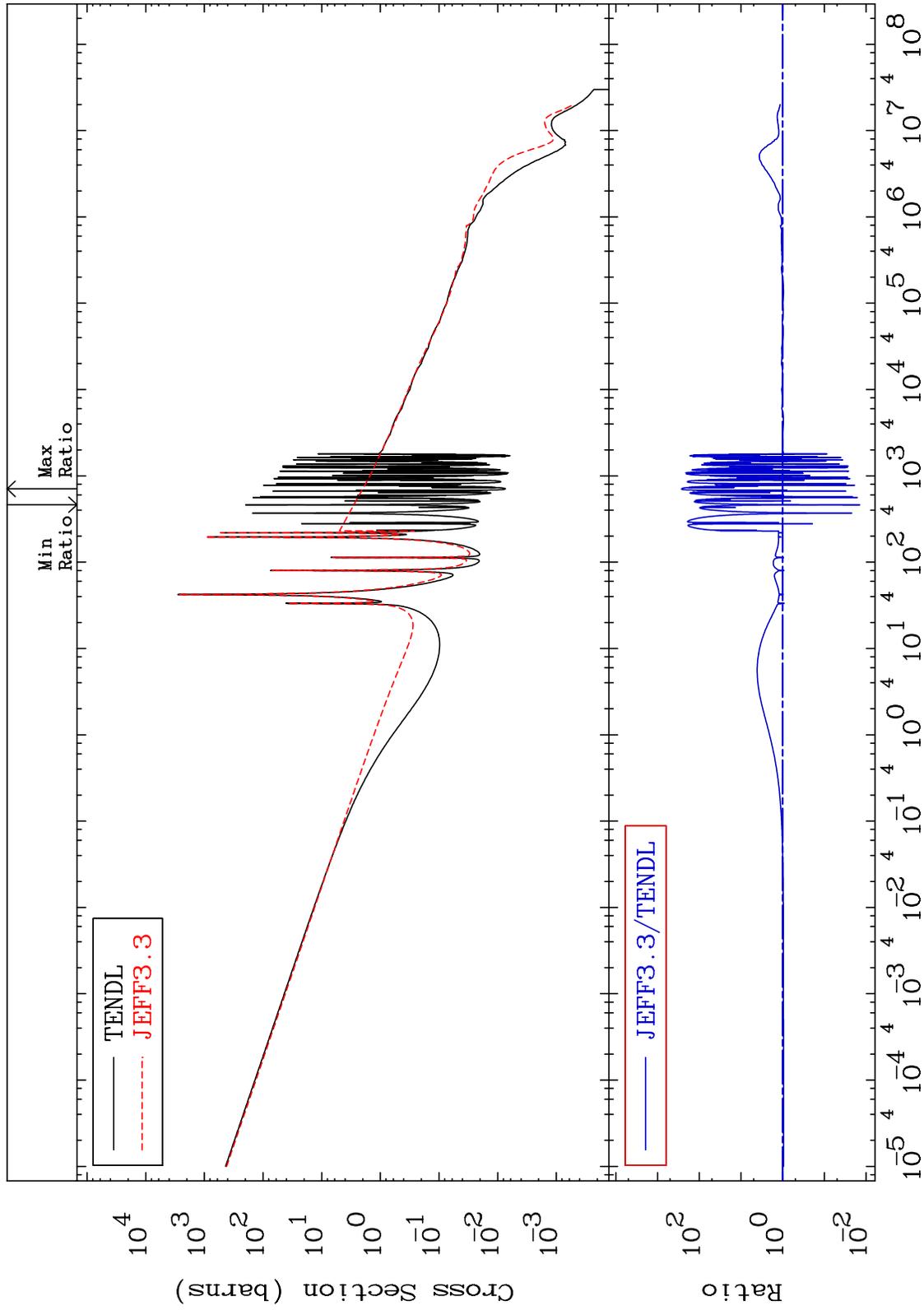
21

Incident Energy (eV)

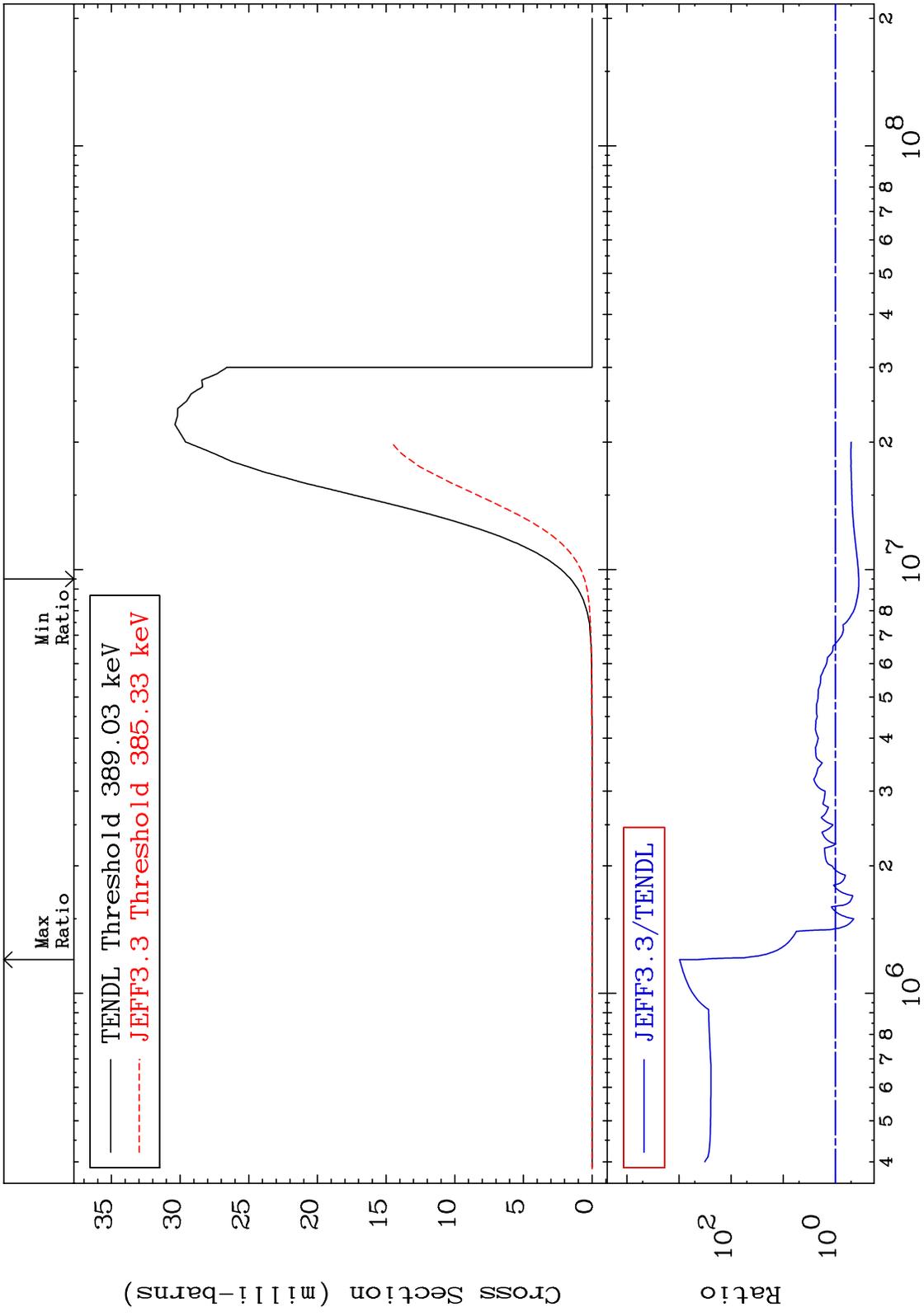
55-Cs-135

MAT 5531

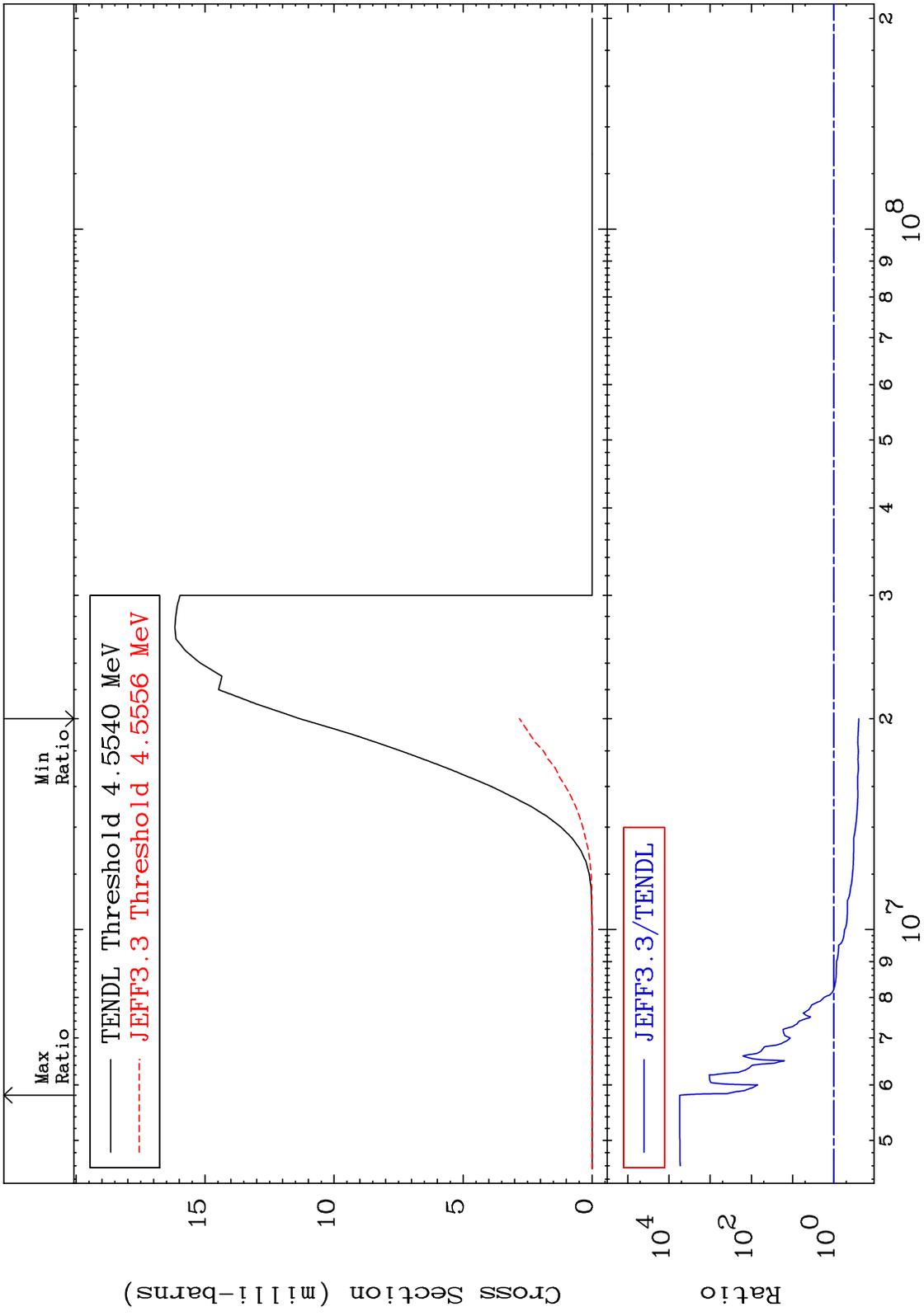
(n, γ) Cross Section
55-Cs-135
-98.58 To 9999. %



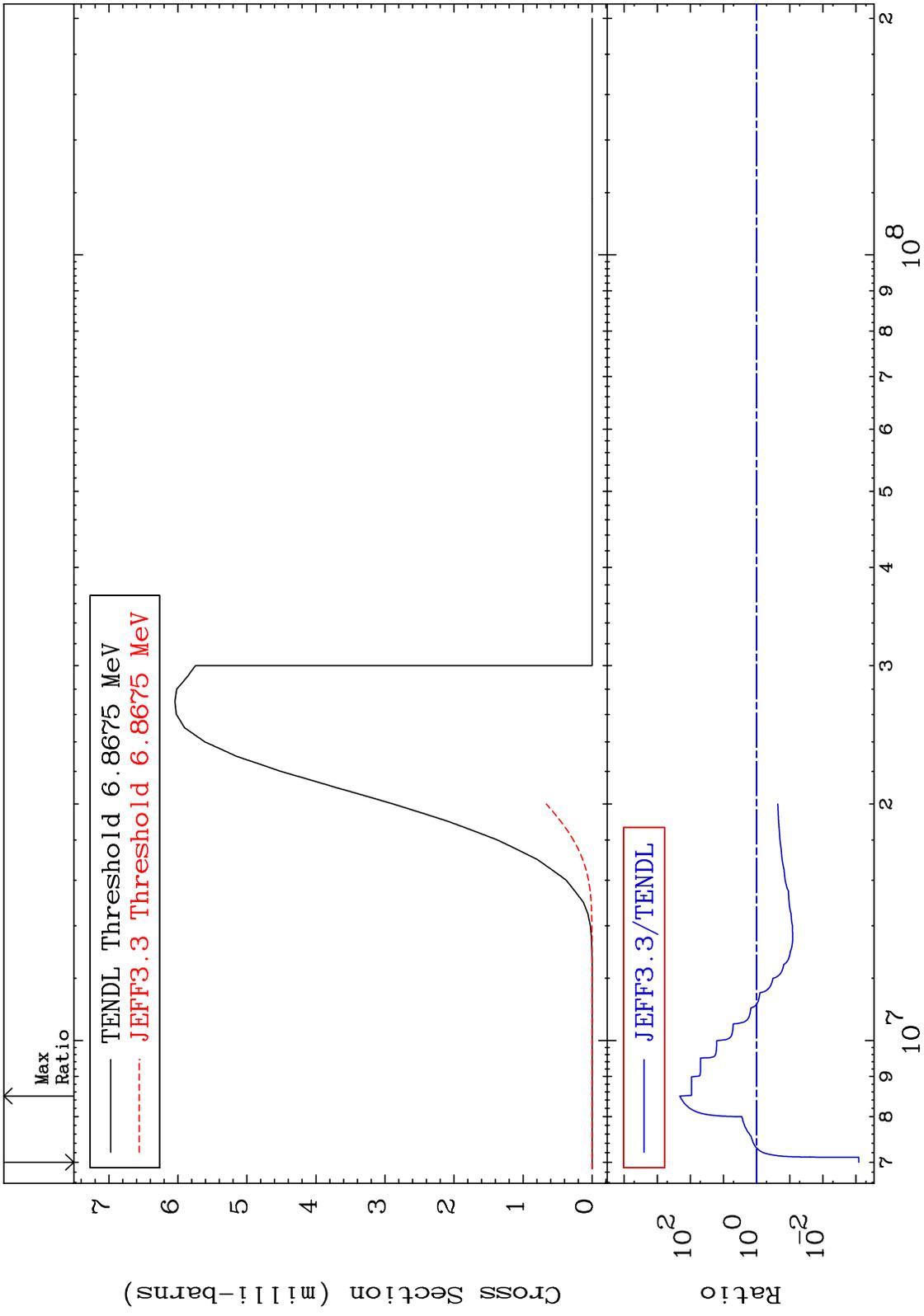
MAT 5531 (n,p) Cross Section 55-Cs-135 -64.60 To 9999. %



MAT 5531 (n,d) Cross Section 55-Cs-135 -75.17 To 9999. %

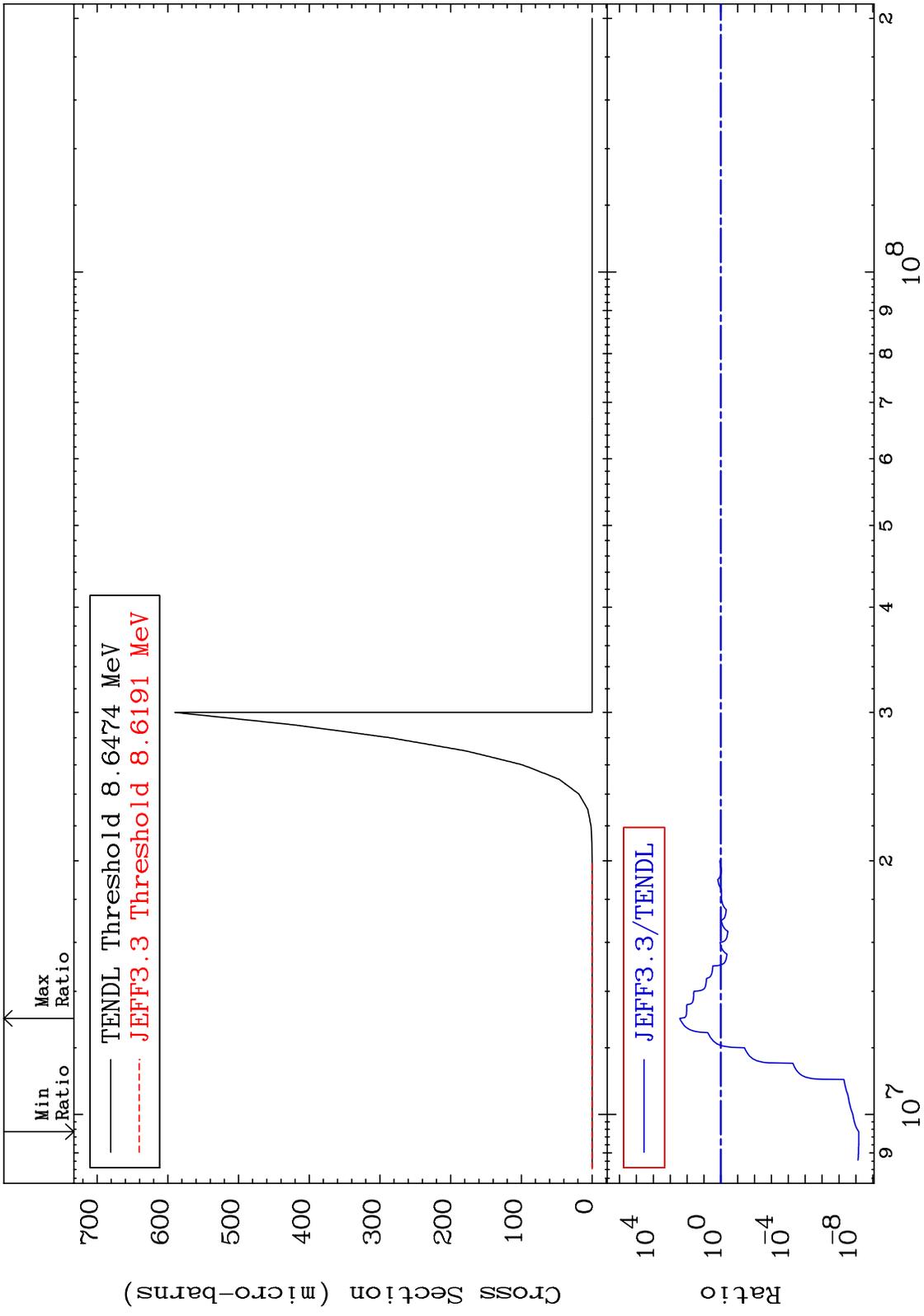


MAT 5531 (n,t) 55-Cs-135
 Cross Section -99.92 To 9999. %



25 55-Cs-135

MAT 5531 (n, He-3) 55-Cs-135
 Cross Section -100.0 To 9999. %



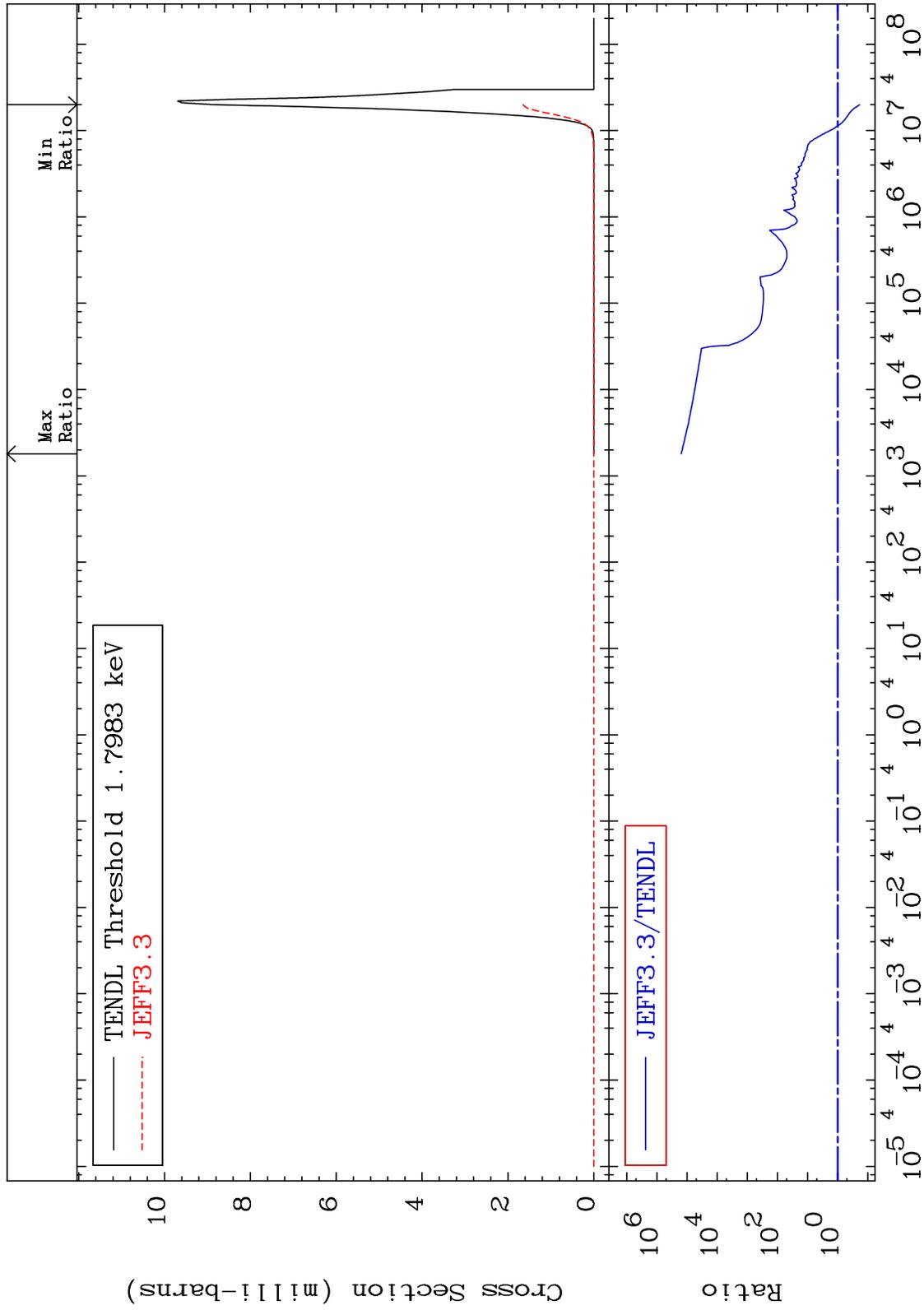
MAT 5531

(n, α)

55-Cs-135

Cross Section

-81.53 To 9999. %



27

Incident Energy (eV)

55-Cs-135

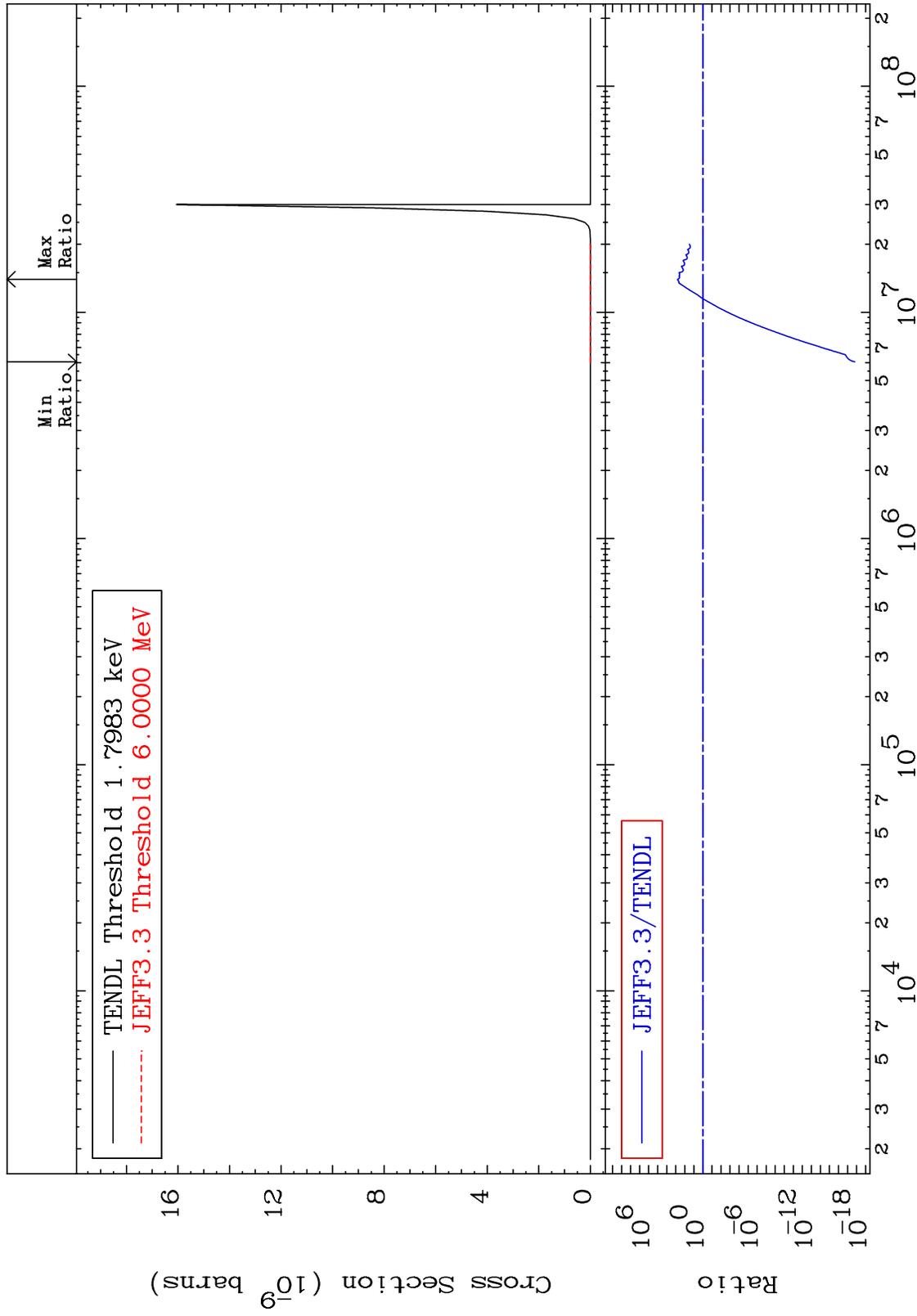
MAT 5531

(n,2α)

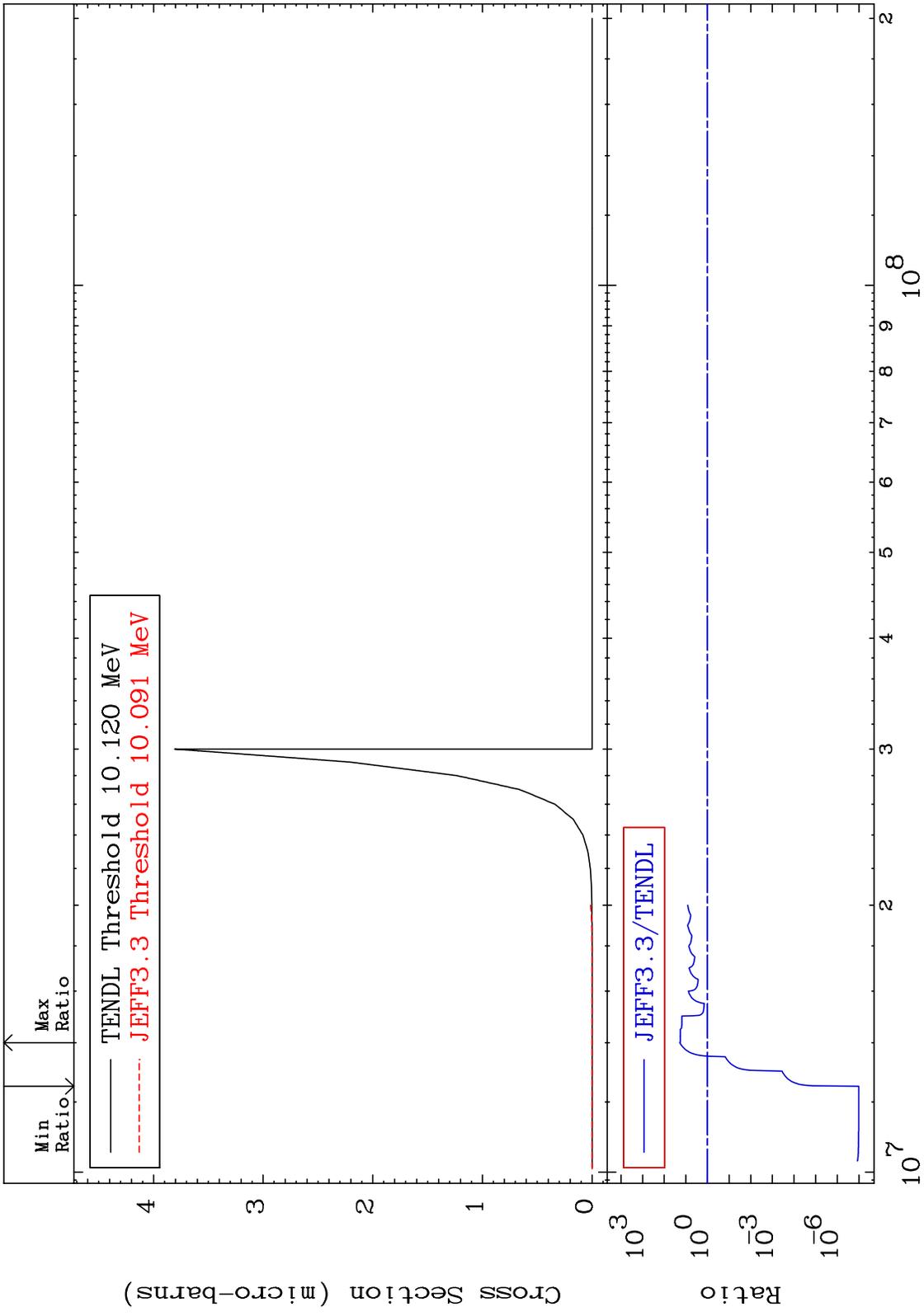
55-Cs-135

Cross Section

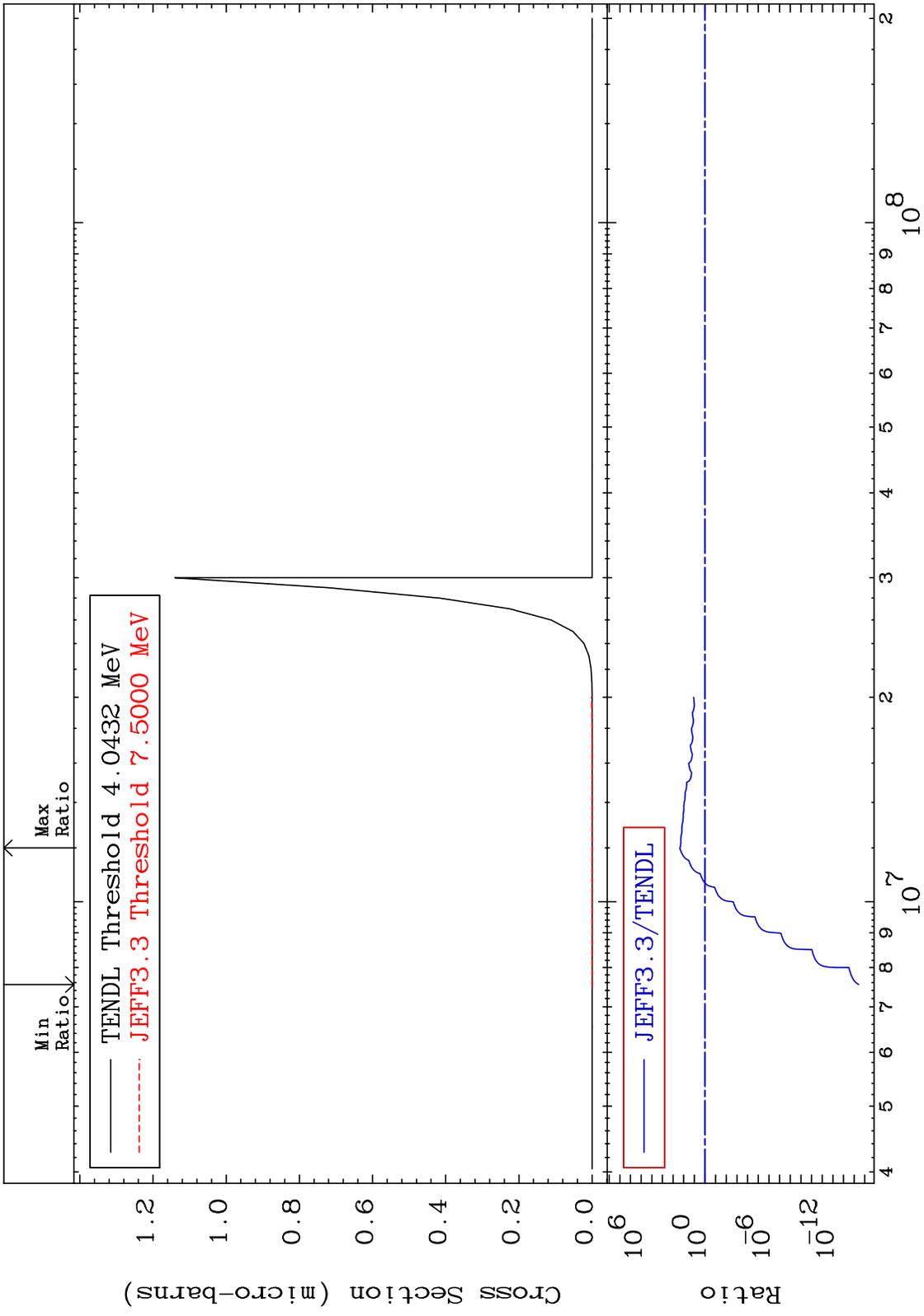
-100.0 To 9999. %



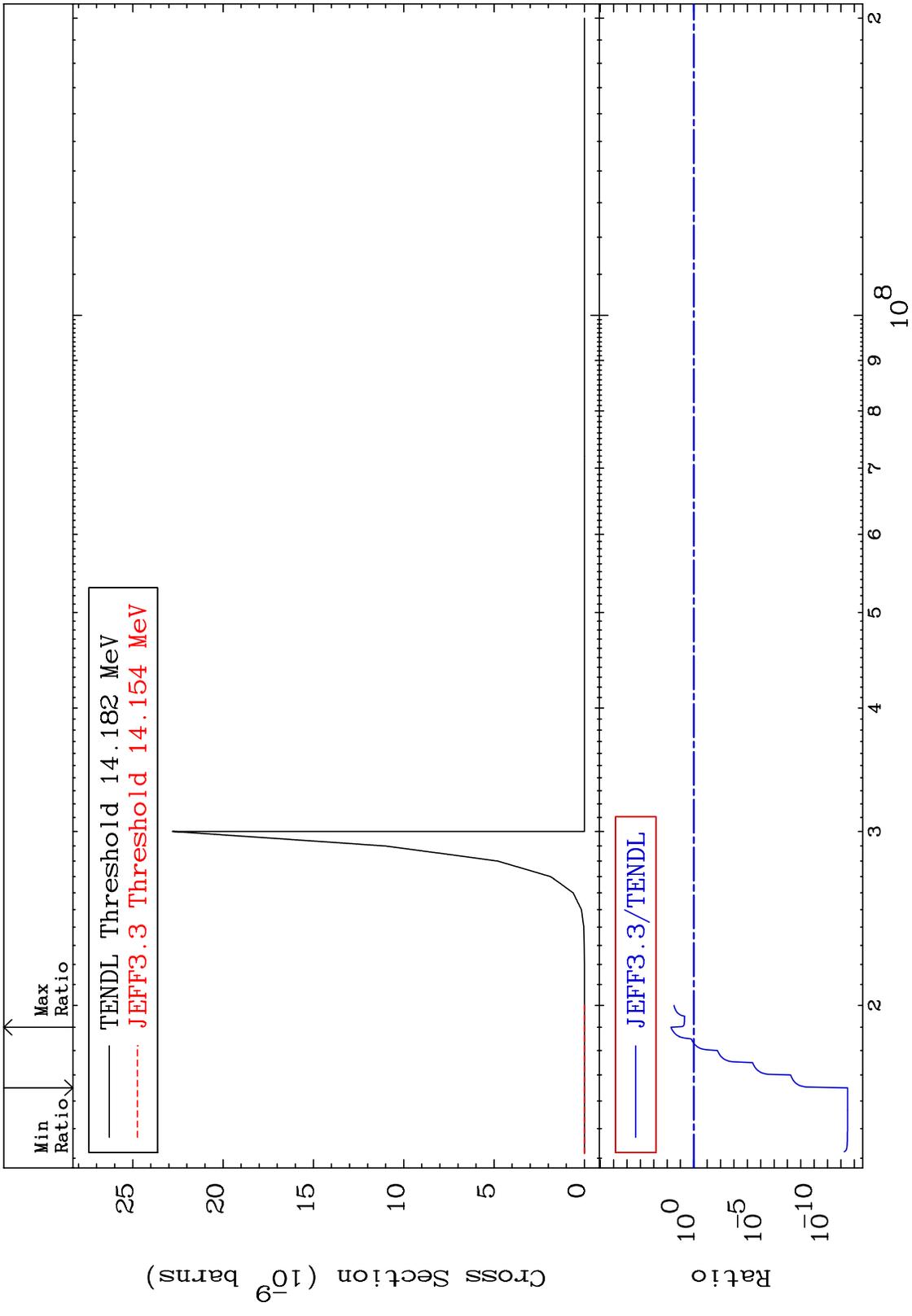
MAT 5531 (n,2p) 55-Cs-135
 Cross Section -100.0 To 1814. %



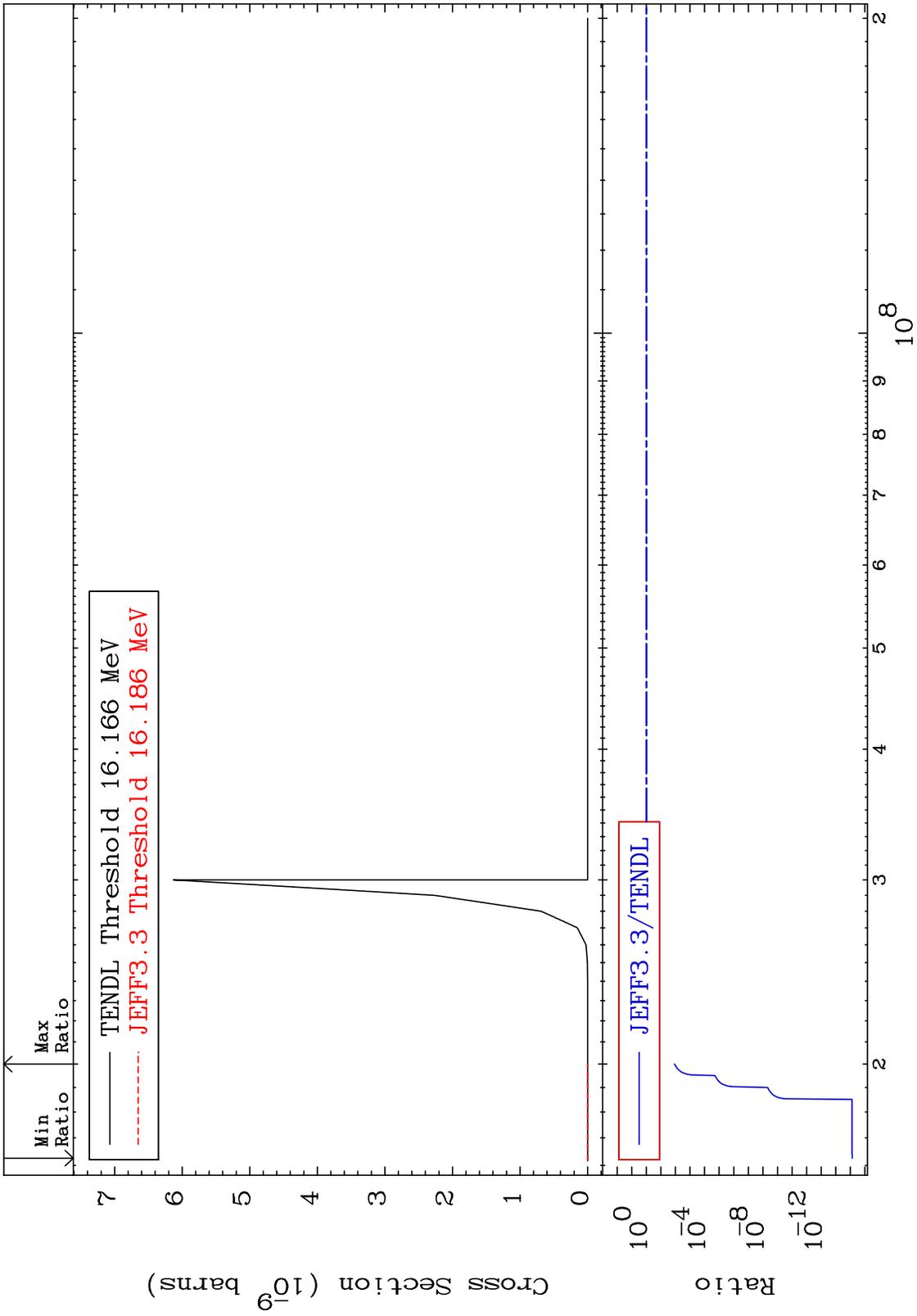
MAT 5531 $(n,p) \alpha$ 55-Cs-135
 Cross Section -100.0 To 9999. %

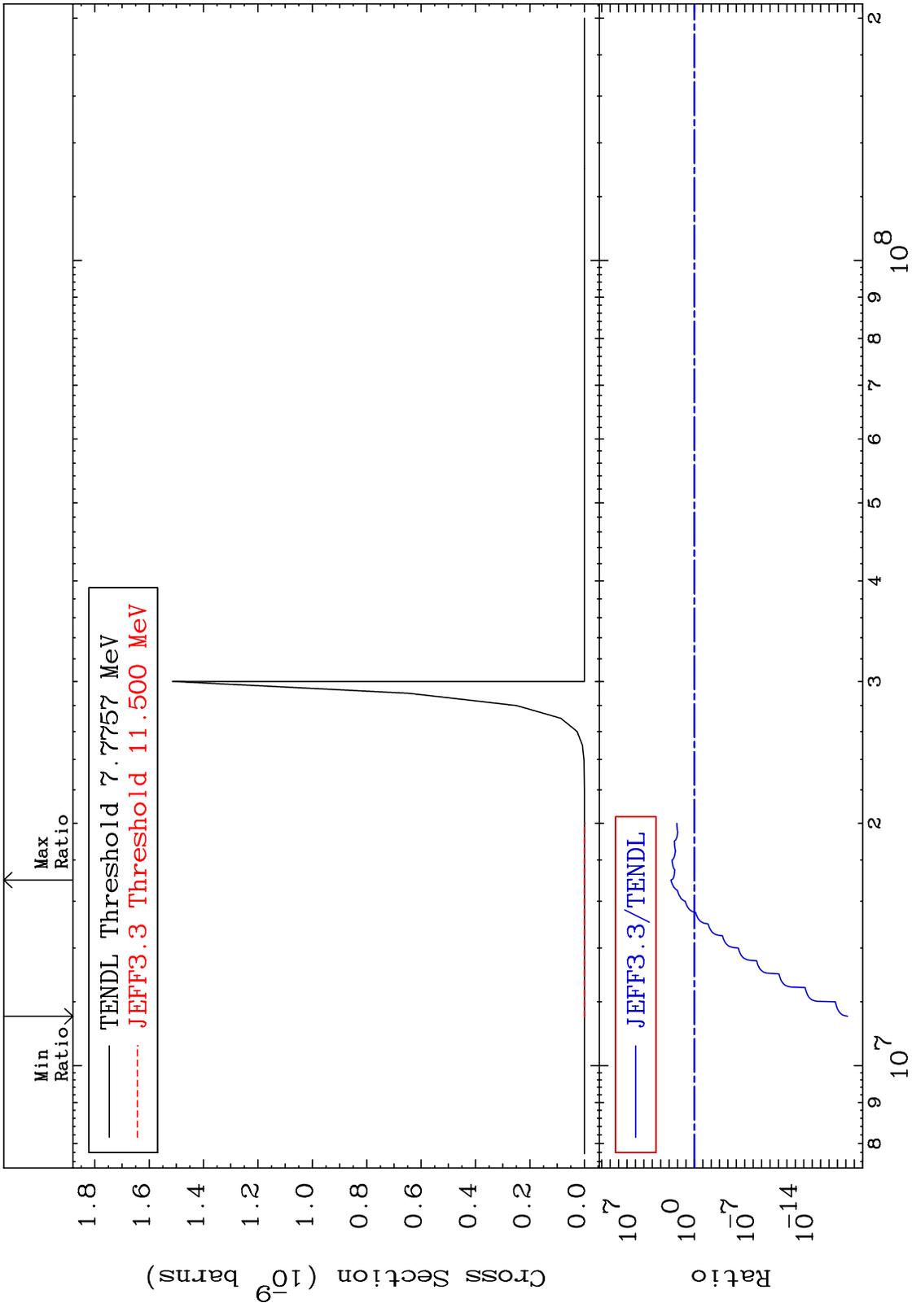


MAT 5531 (n,p) d 55-Cs-135
 Cross Section -100.0 To 5062. %



MAT 5531 (n,p) t 55-Cs-135
 Cross Section -100.0 To -98.86%

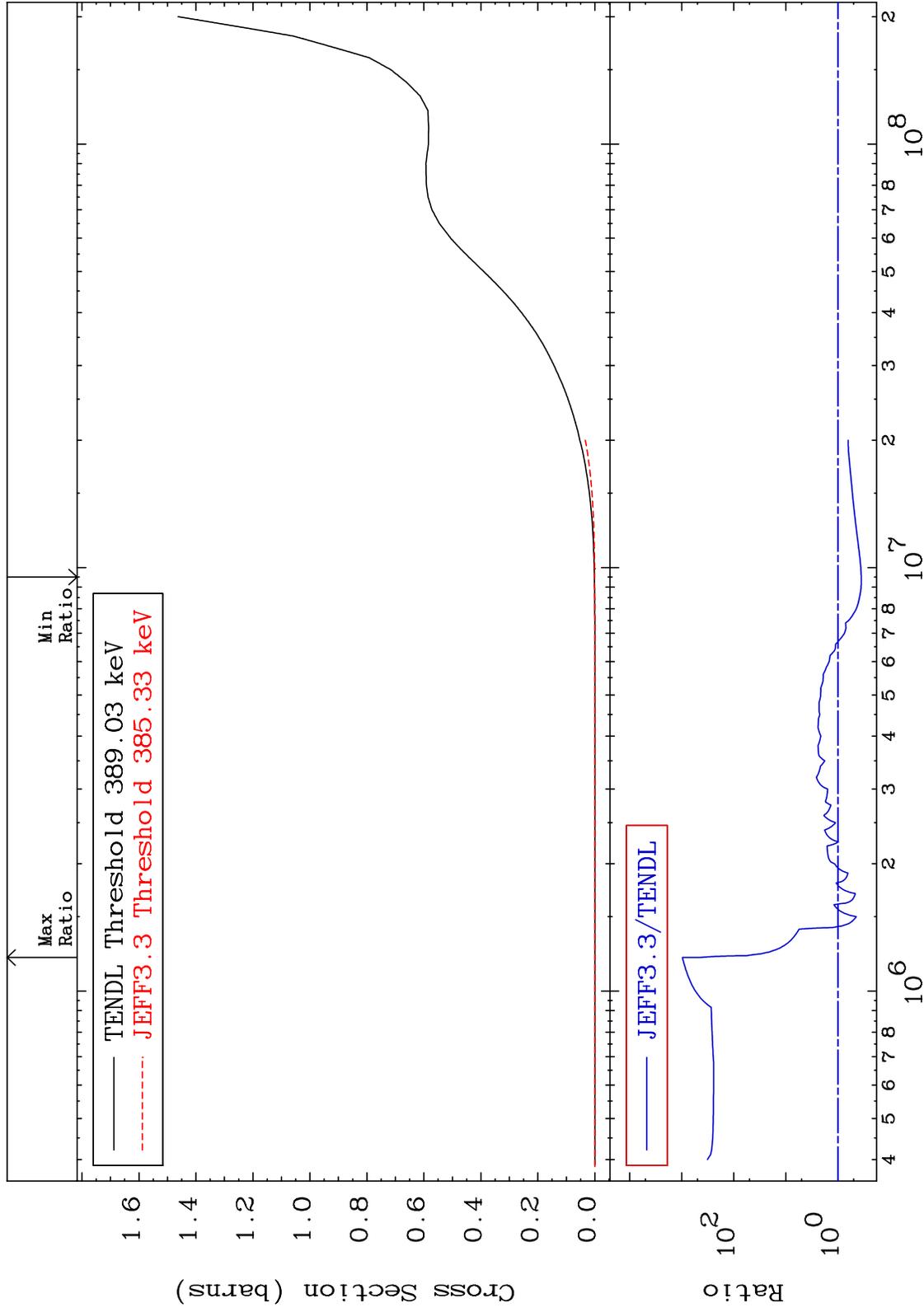




MAT 5531

Hydrogen Production
Cross Section

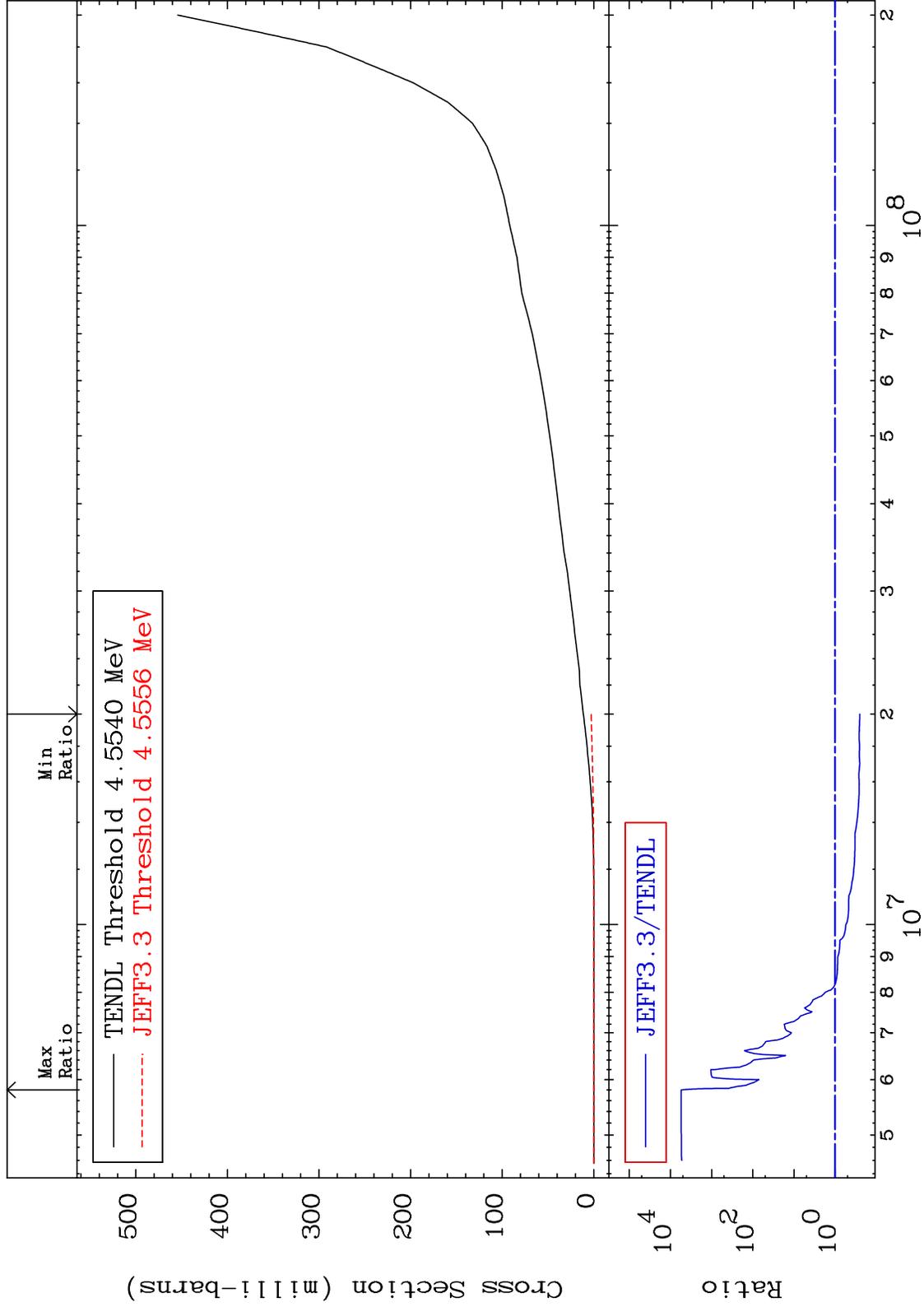
55-Cs-135
-64.60 To 9999. %



MAT 5531

Deuterium Production
Cross Section

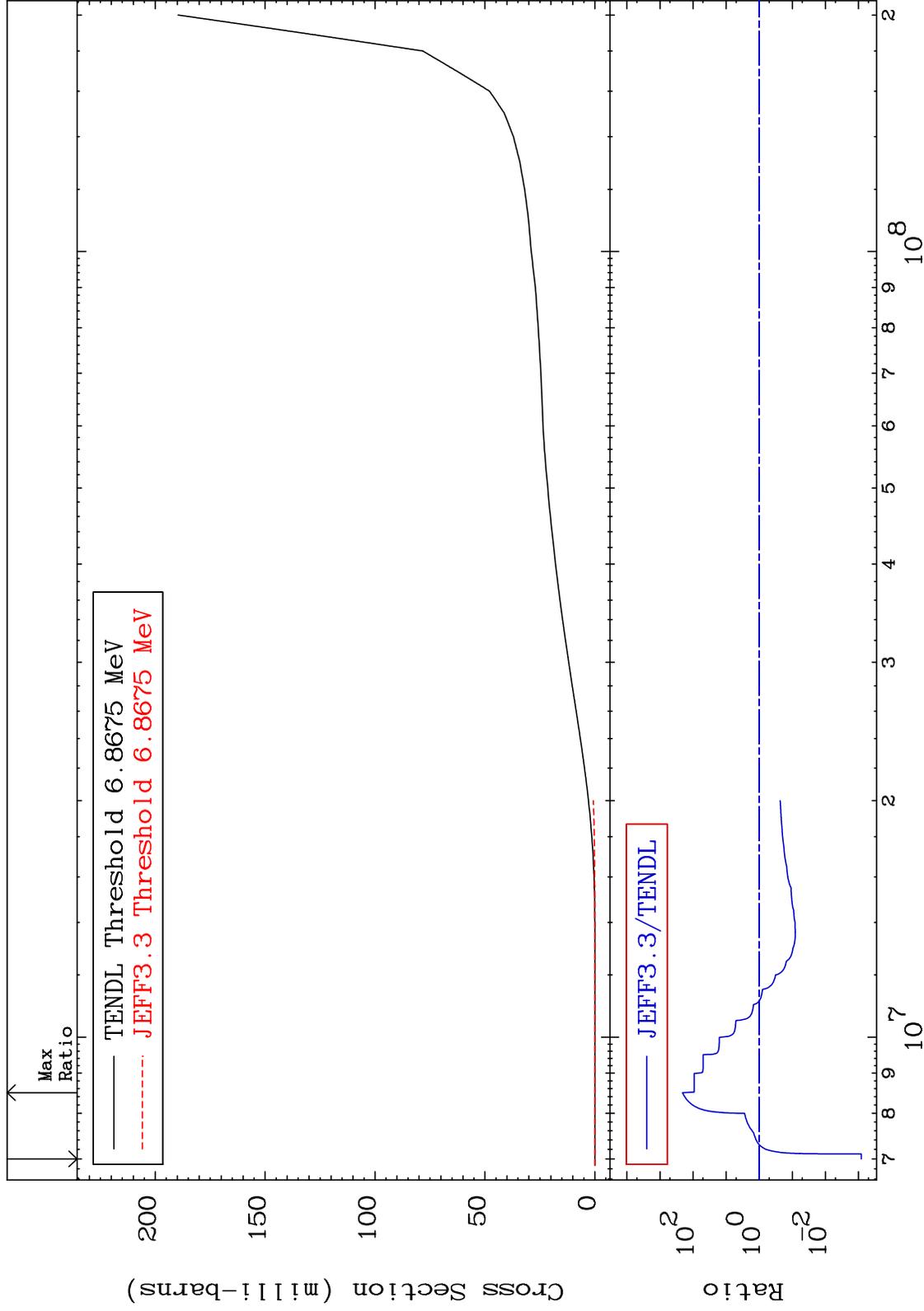
55-Cs-135
-74.76 To 9999. %



MAT 5531

Tritium Production
Cross Section

55-Cs-135
-99.92 To 9999. %



36

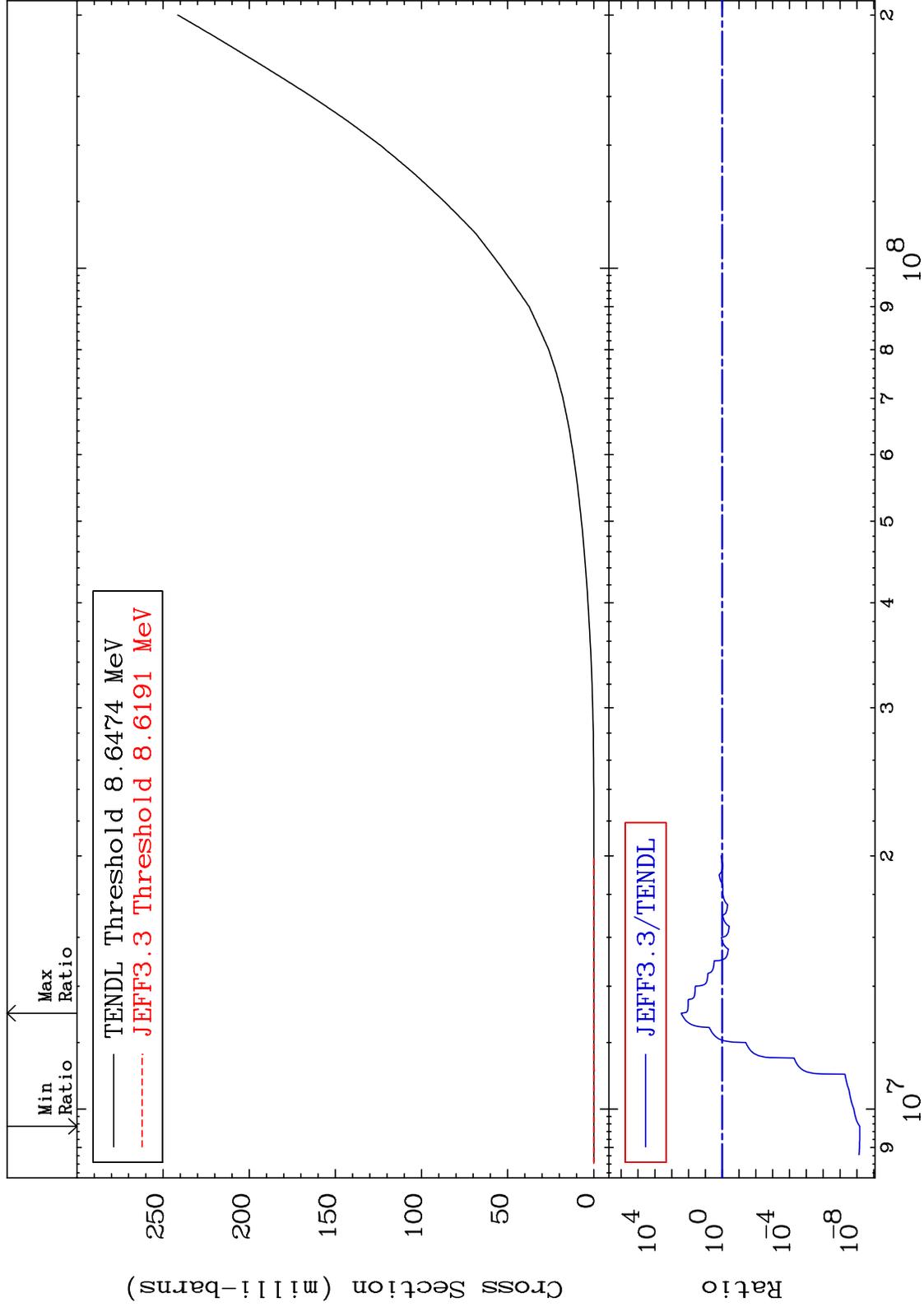
Incident Energy (eV)

55-Cs-135

MAT 5531

He-3 Production
Cross Section

55-Cs-135
-100.0 To 9999. %



37

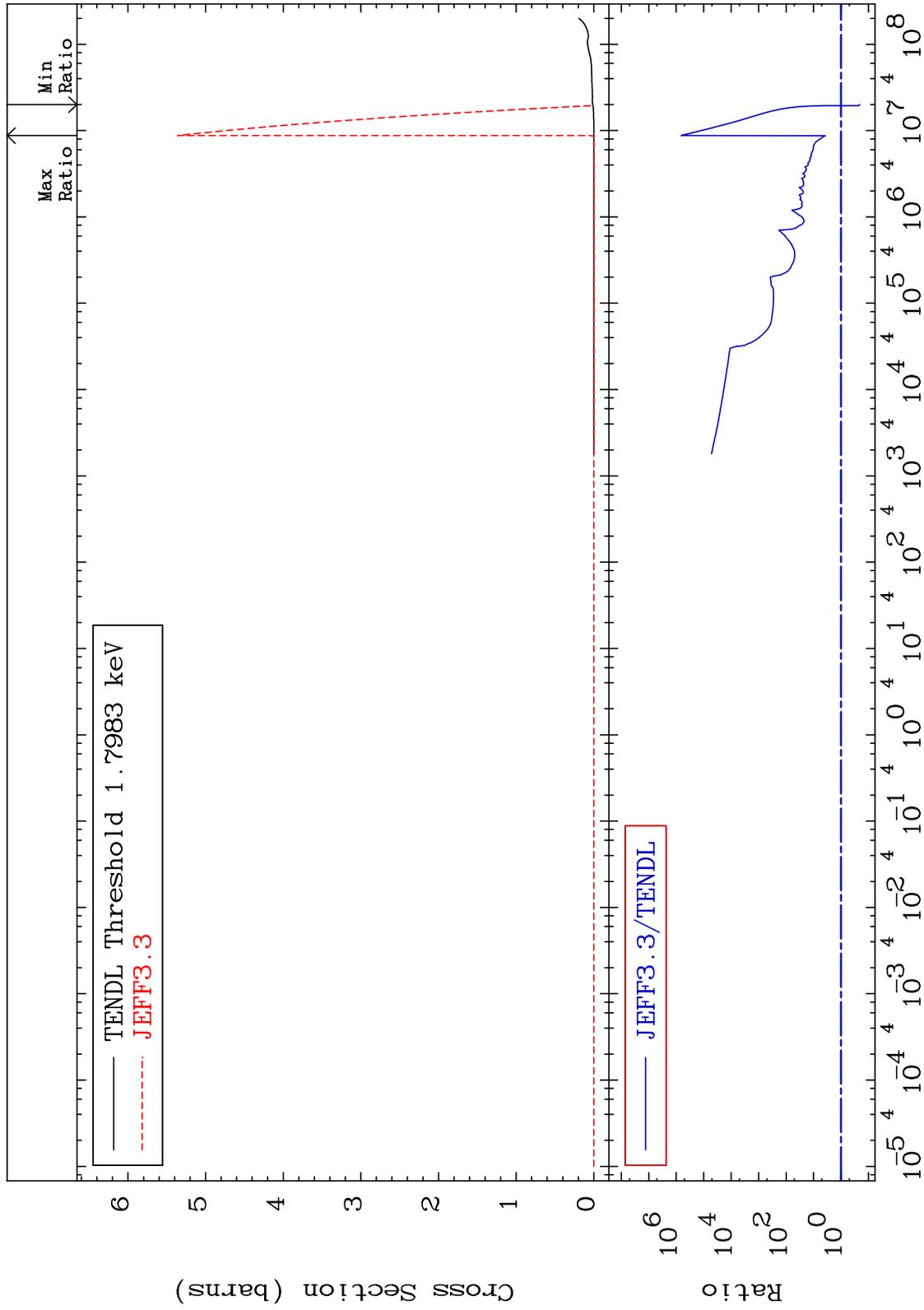
Incident Energy (eV)

55-Cs-135

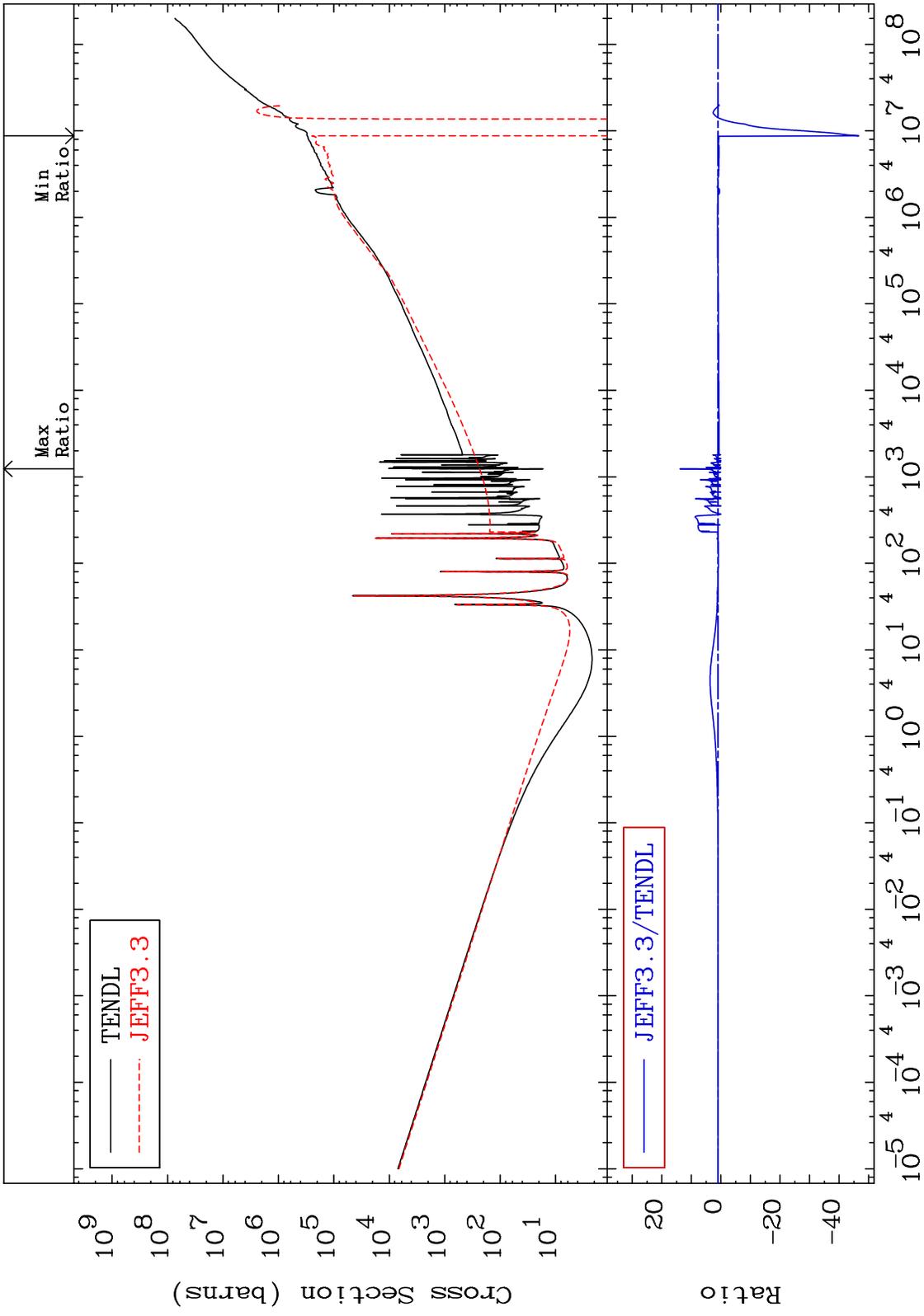
MAT 5531

He-4 Production
Cross Section

55-Cs-135
-79.31 To 9999. %



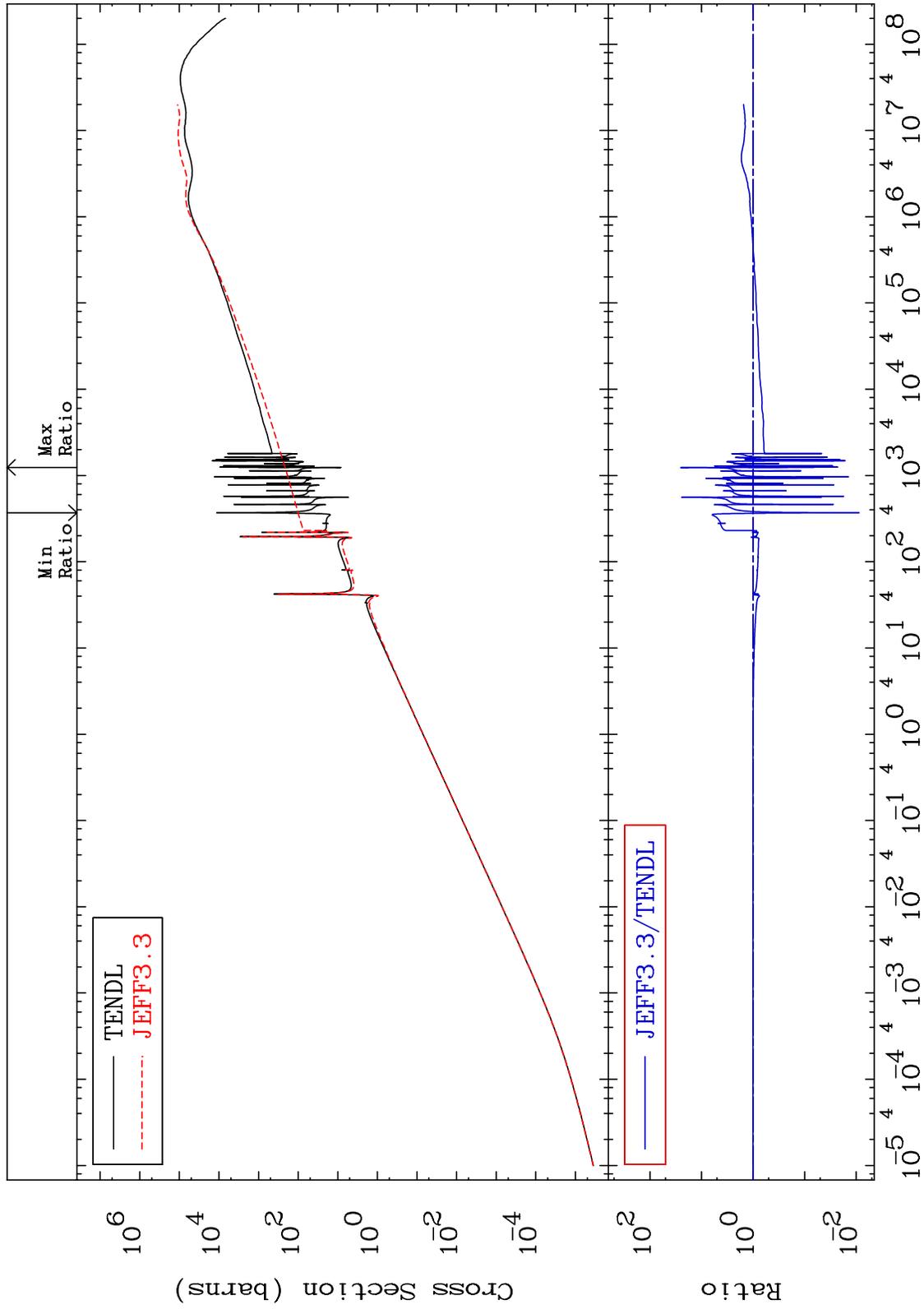
MAT 5531 Kerma total (eV-barns)
 Cross Section 55-Cs-135
 -4765. To 1293. %



MAT 5531

Kerma elastic
Cross Section

55-Cs-135
-99.12 To 2444. %

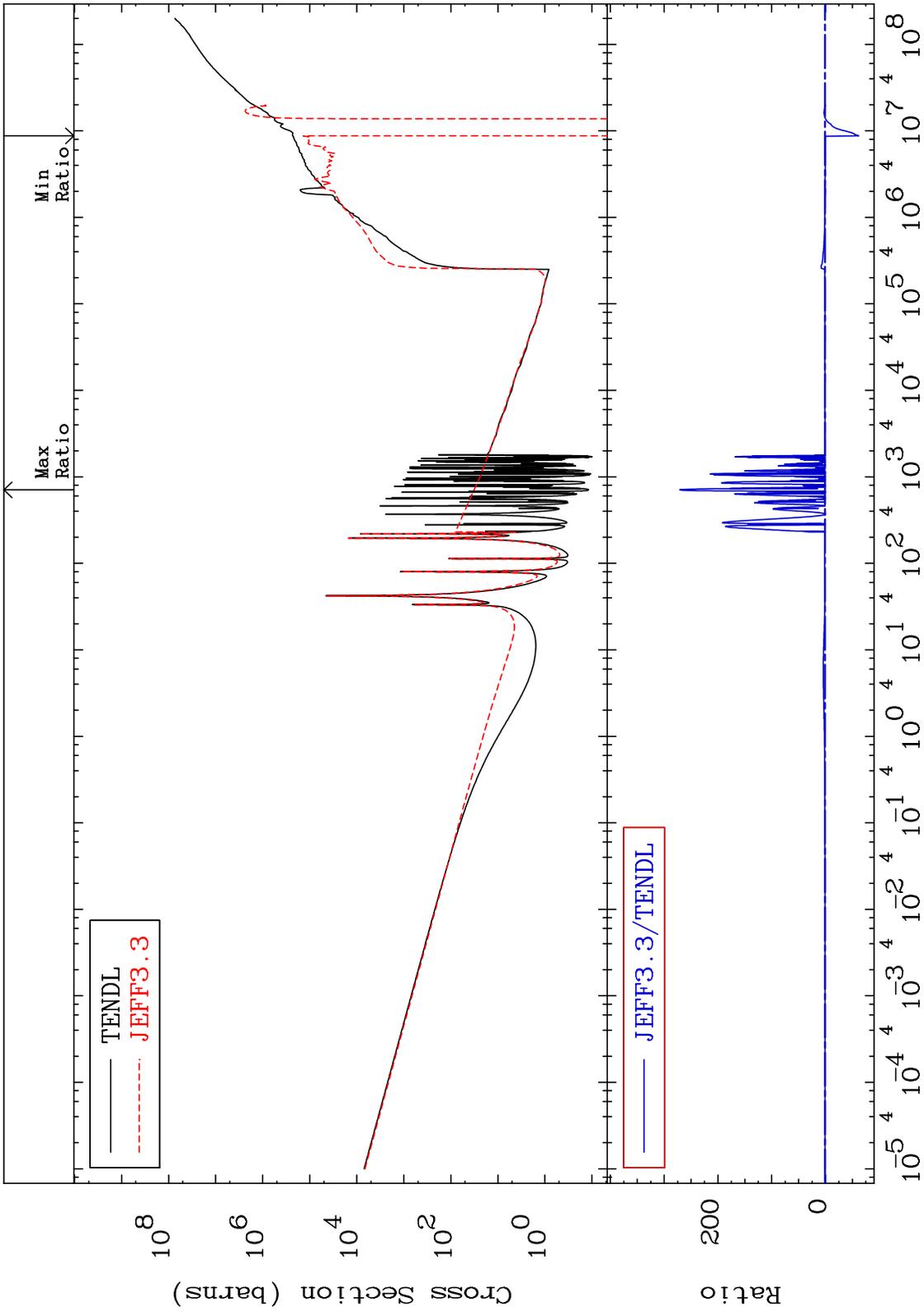


40

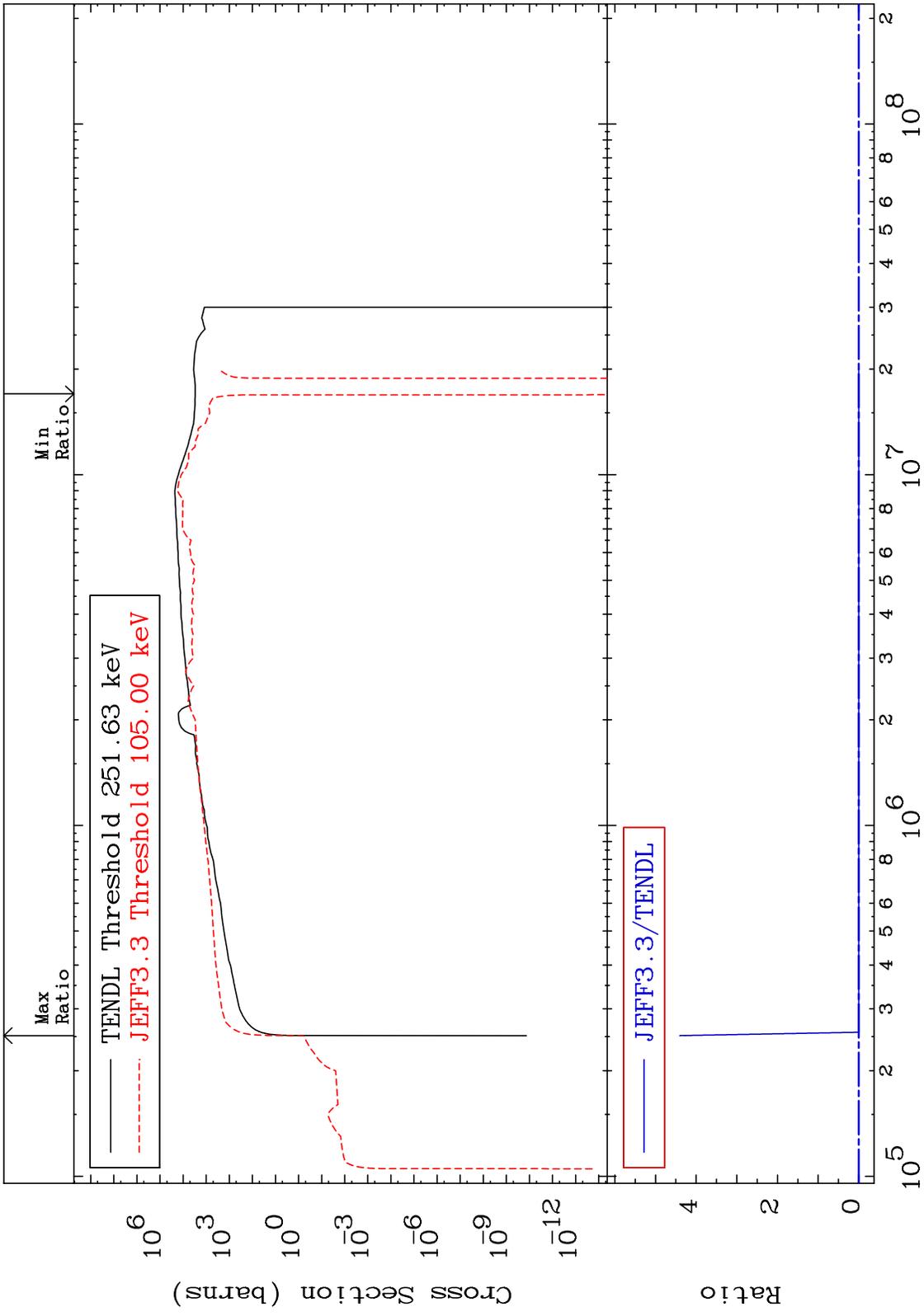
Incident Energy (eV)

55-Cs-135

MAT 5531 Kerma non-elastic (all but mt2) 55-Cs-135
 -6297. To 9999. %
 Cross Section



MAT 5531 Kerma inelastic (mt51-91) 55-Cs-135
 Cross Section -104.5 To 9999. %

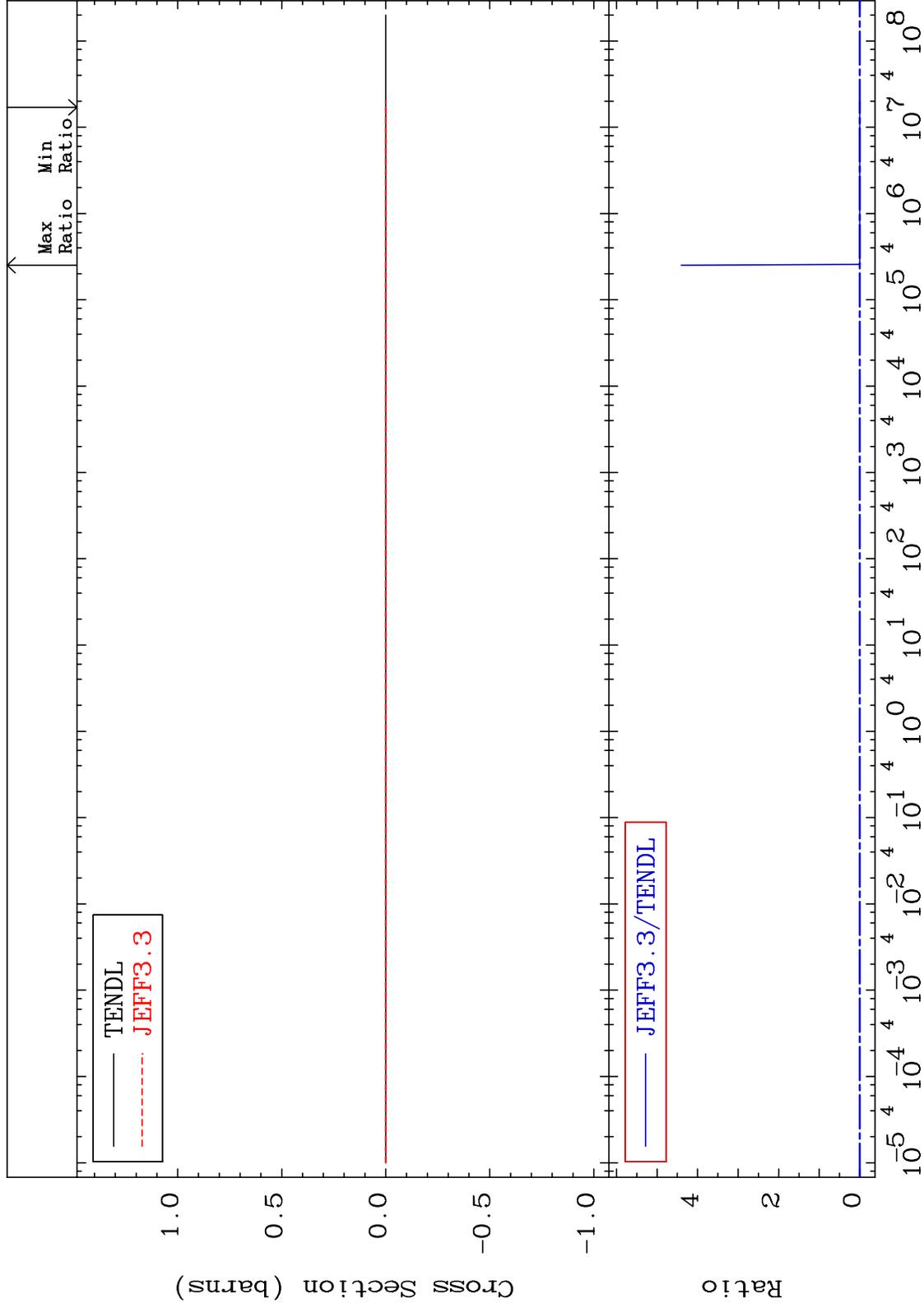


42 Incident Energy (eV) 55-Cs-135

MAT 5531

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

55-Cs-135
-104.5 To 9999. %



43

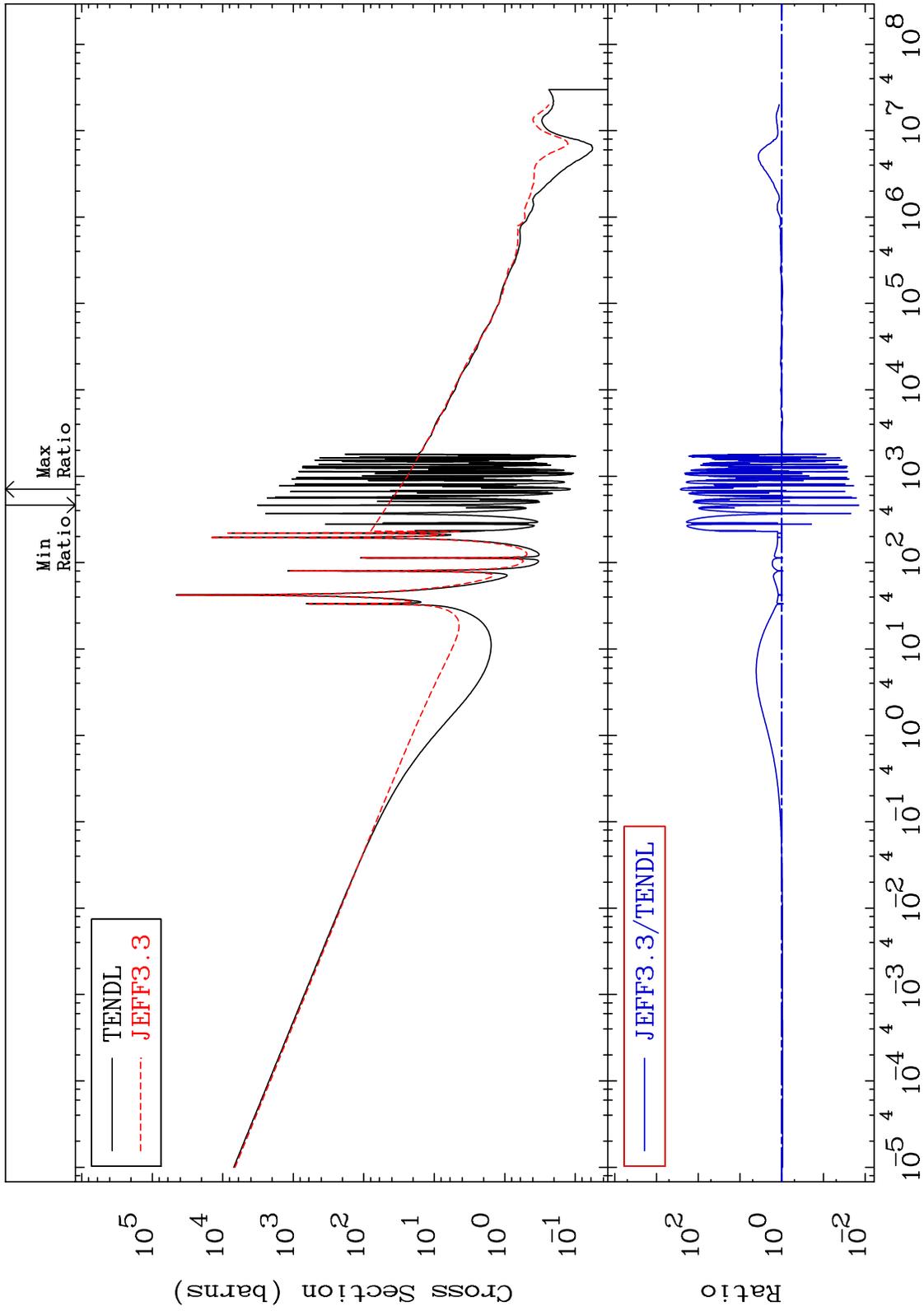
Incident Energy (eV)

55-Cs-135

MAT 5531

Kerma capture (mt102)
Cross Section

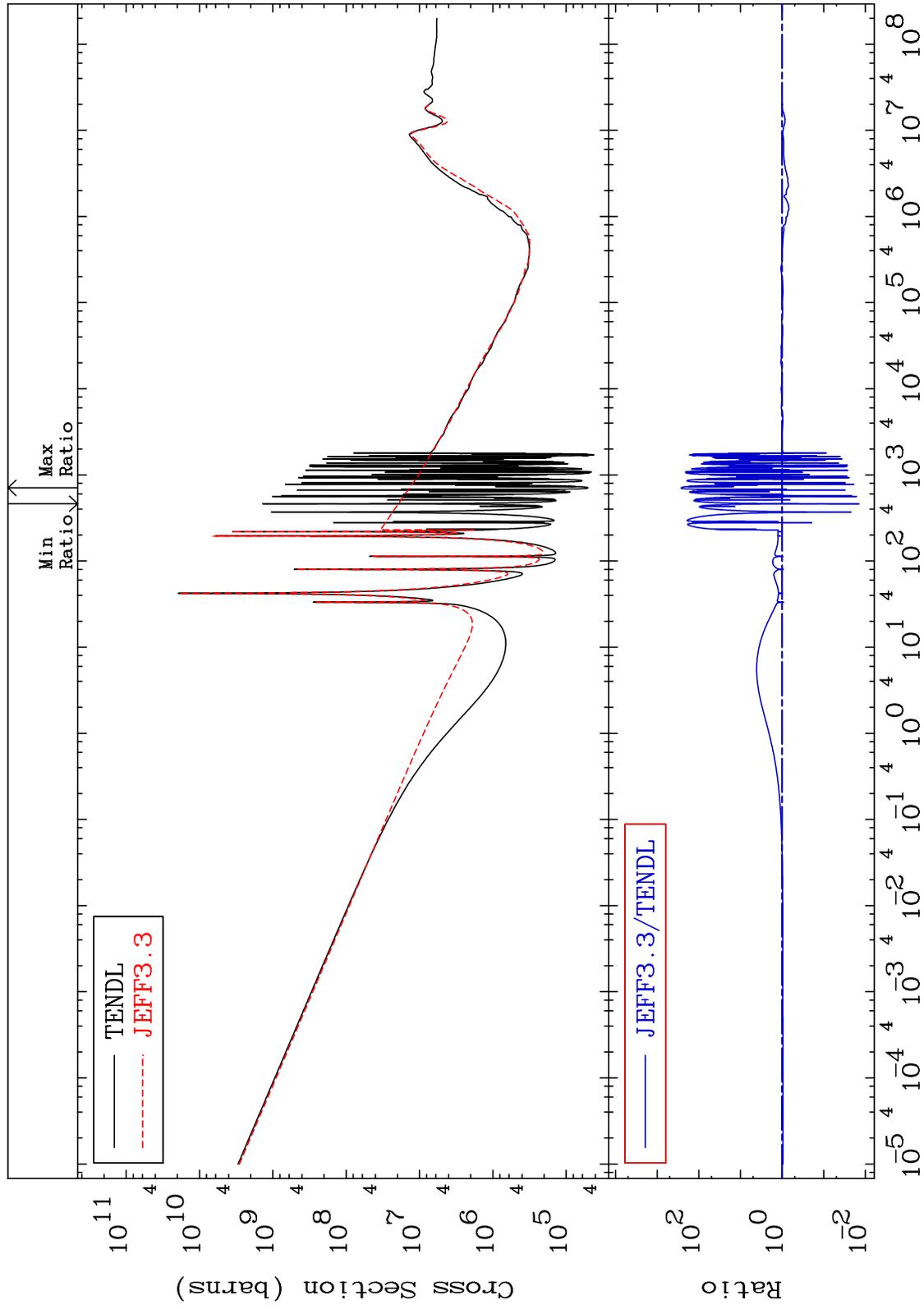
55-Cs-135
-98.58 To 9999. %



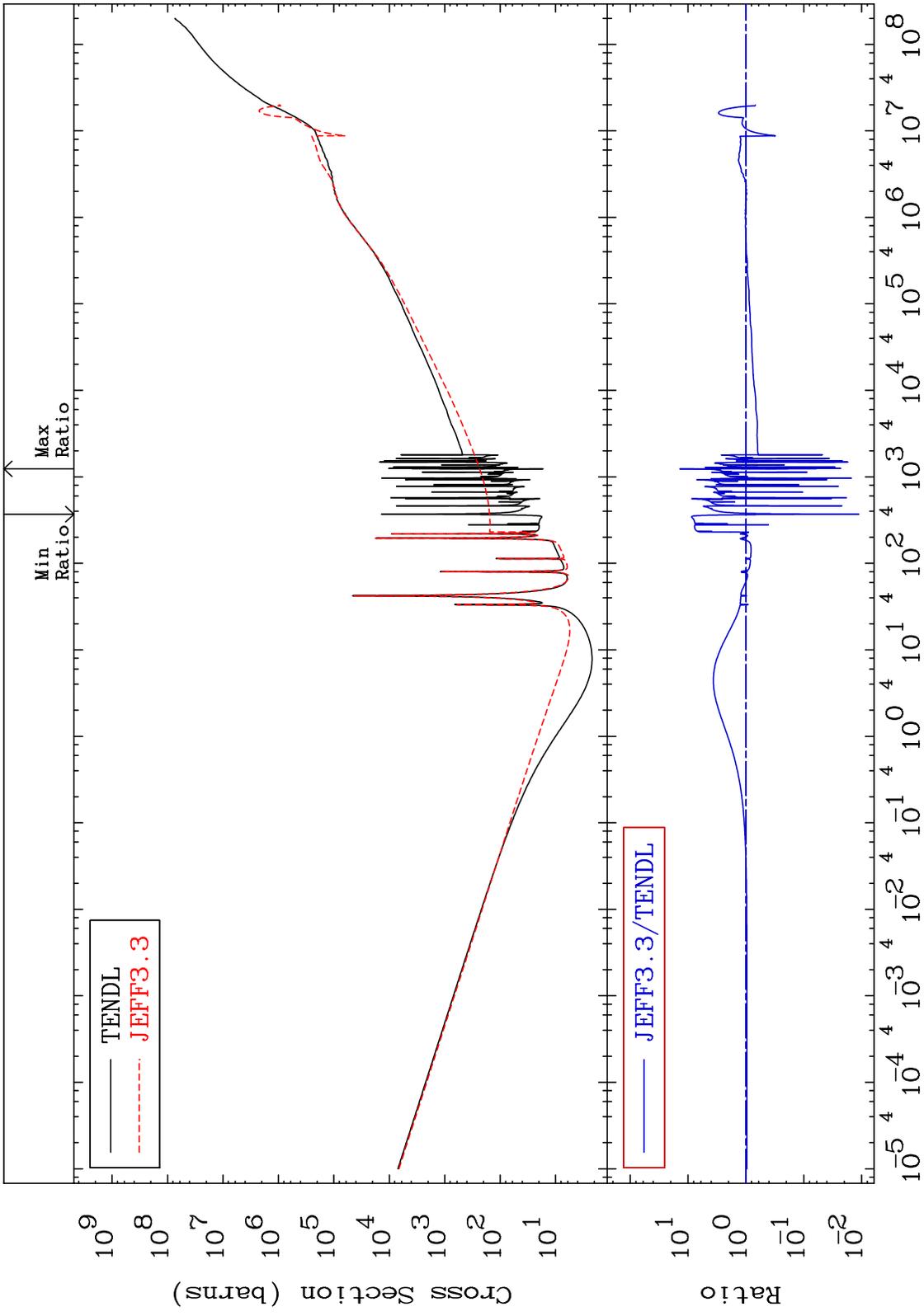
MAT 5531

Total photon (eV-barns)
Cross Section

55-Cs-135
-98.58 To 9999. %



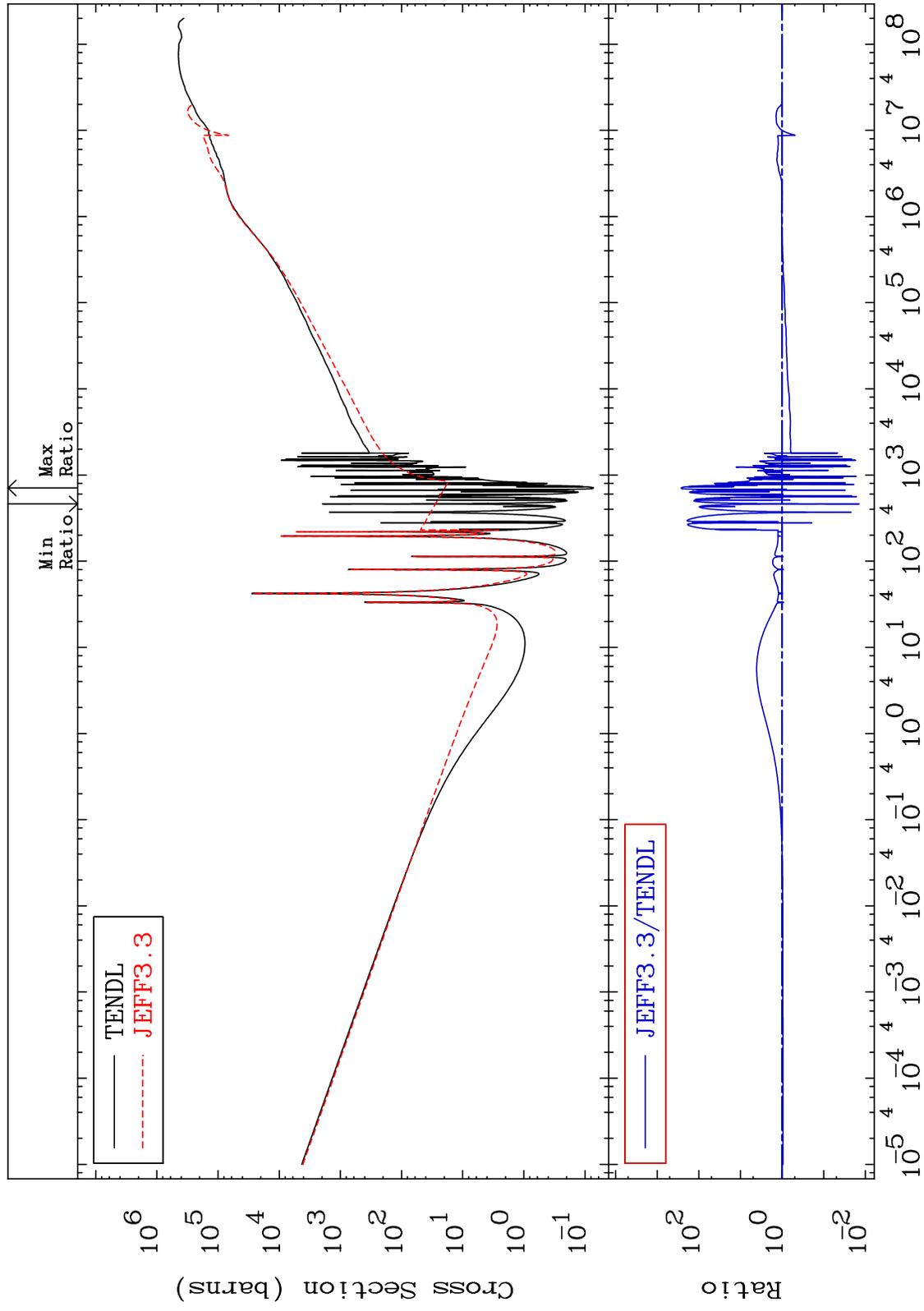
MAT 5531 Total kinematic kerma (high limit) 55-Cs-135
 Cross Section -98.88 To 1293. %



MAT 5531

Dpa total (eV-barns)
Cross Section

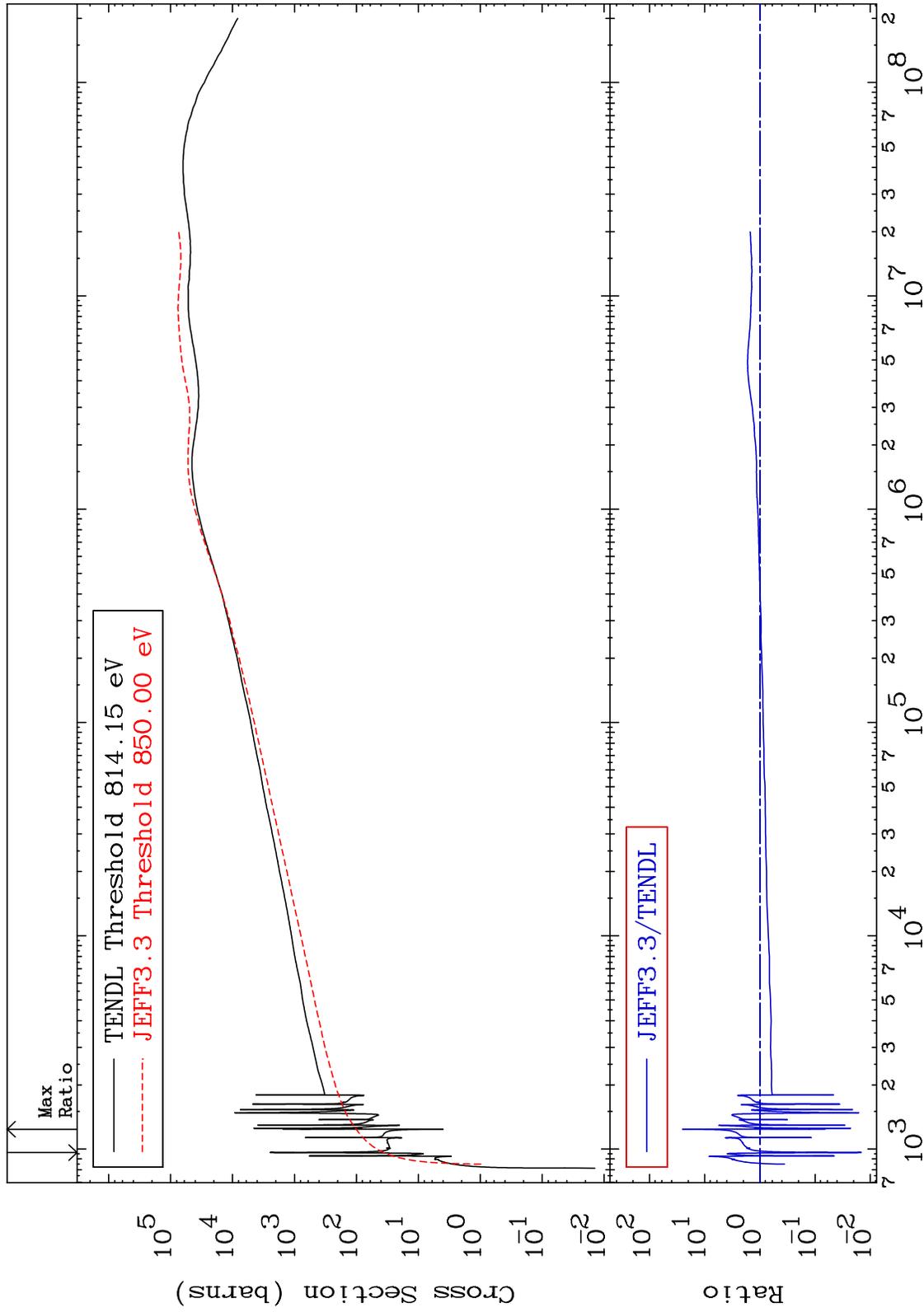
55-Cs-135
-98.58 To 9999. %



MAT 5531

Dpa elastic (mt2)
Cross Section

55-Cs-135
-98.55 To 2442. %



48

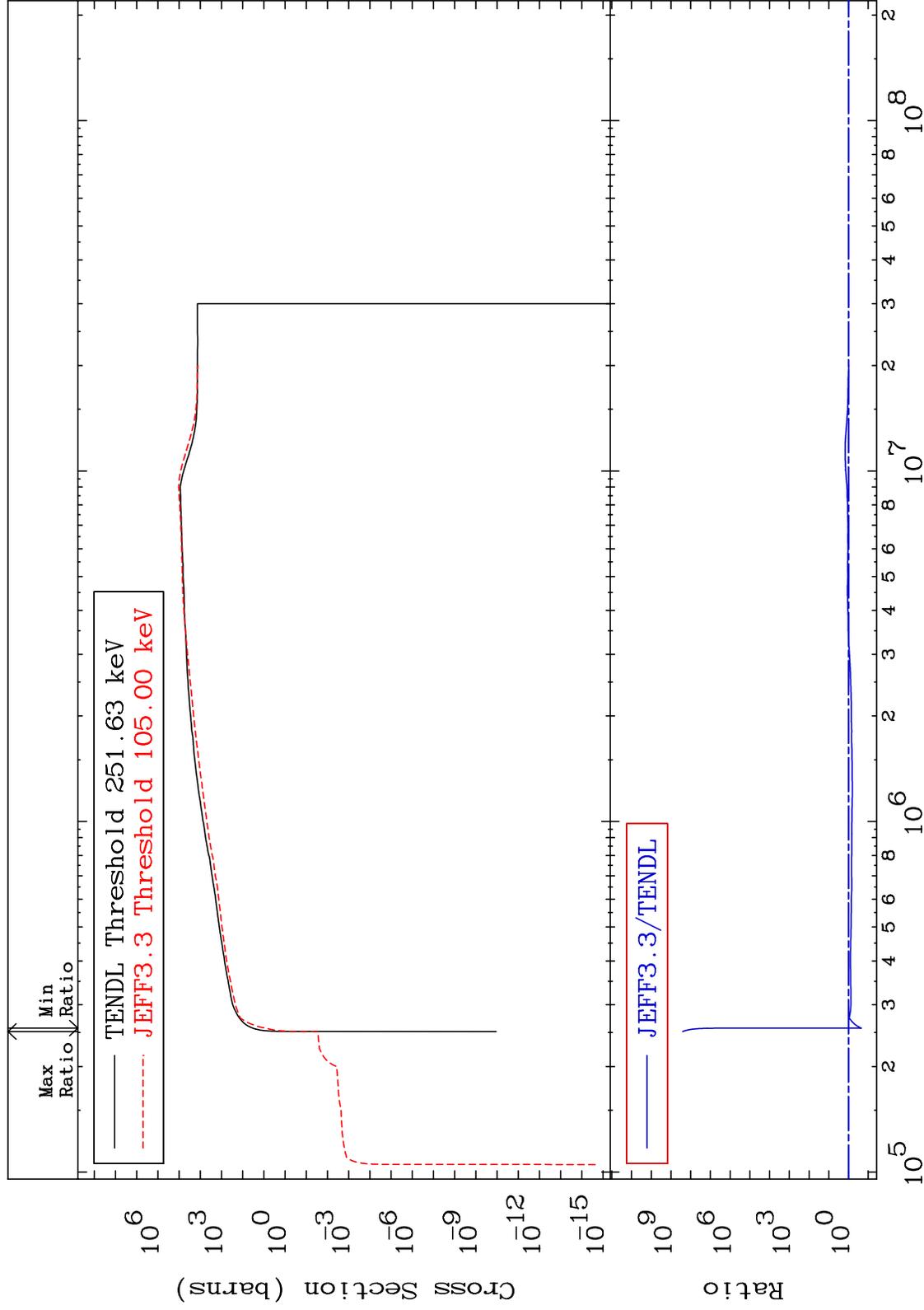
Incident Energy (eV)

55-Cs-135

MAT 5531

Dpa inelastic (mt51-91)
Cross Section

55-Cs-135
-77.93 To 9999. %



49

Incident Energy (eV)

55-Cs-135

MAT 5531

Dpa disappearance (mt102 -120)
Cross Section

55-Cs-135
-98.58 To 9999. %

