

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

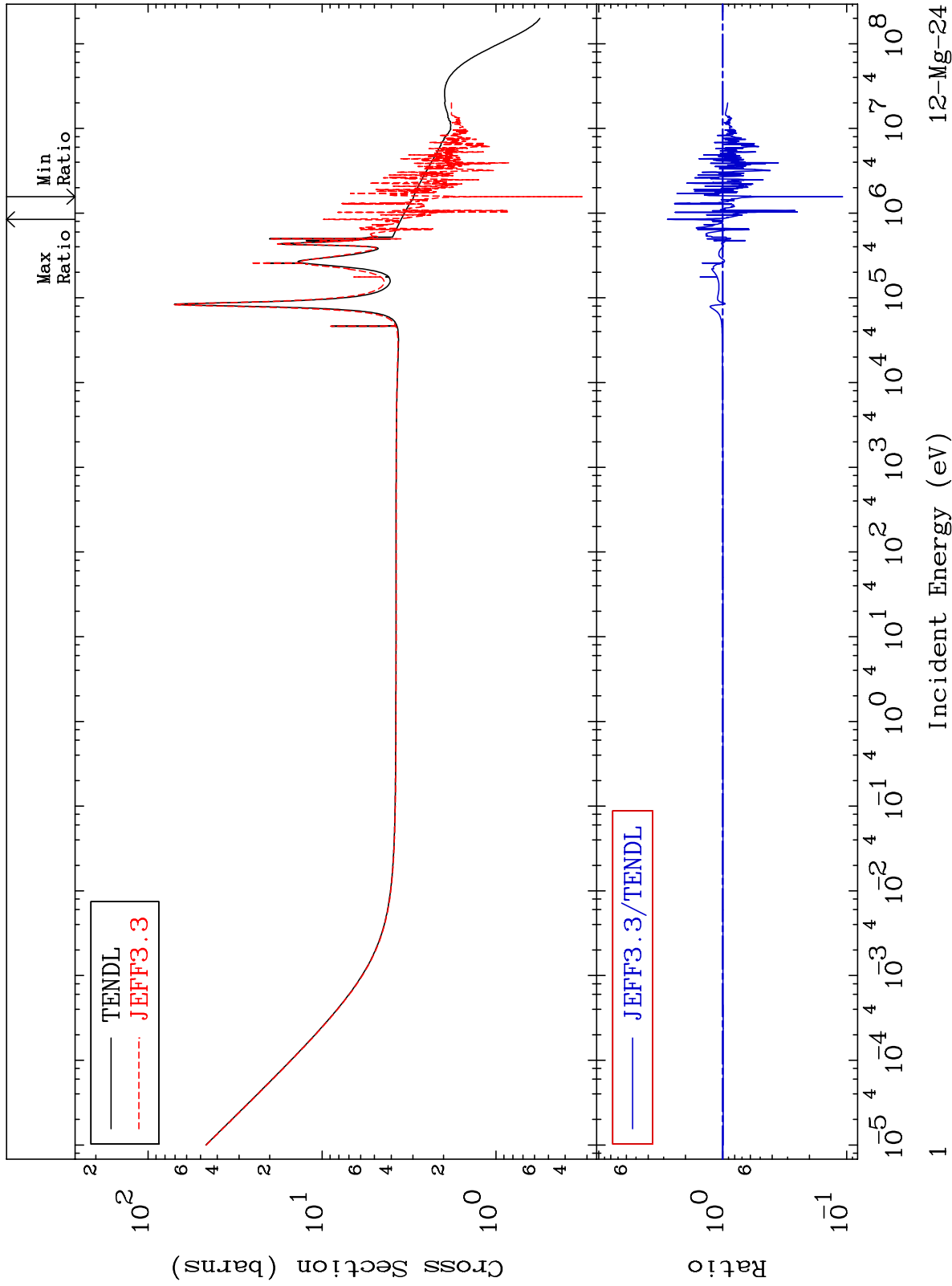
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 1225

Total
Cross Section

12-Mg-24
-89.21 To 178.8 %

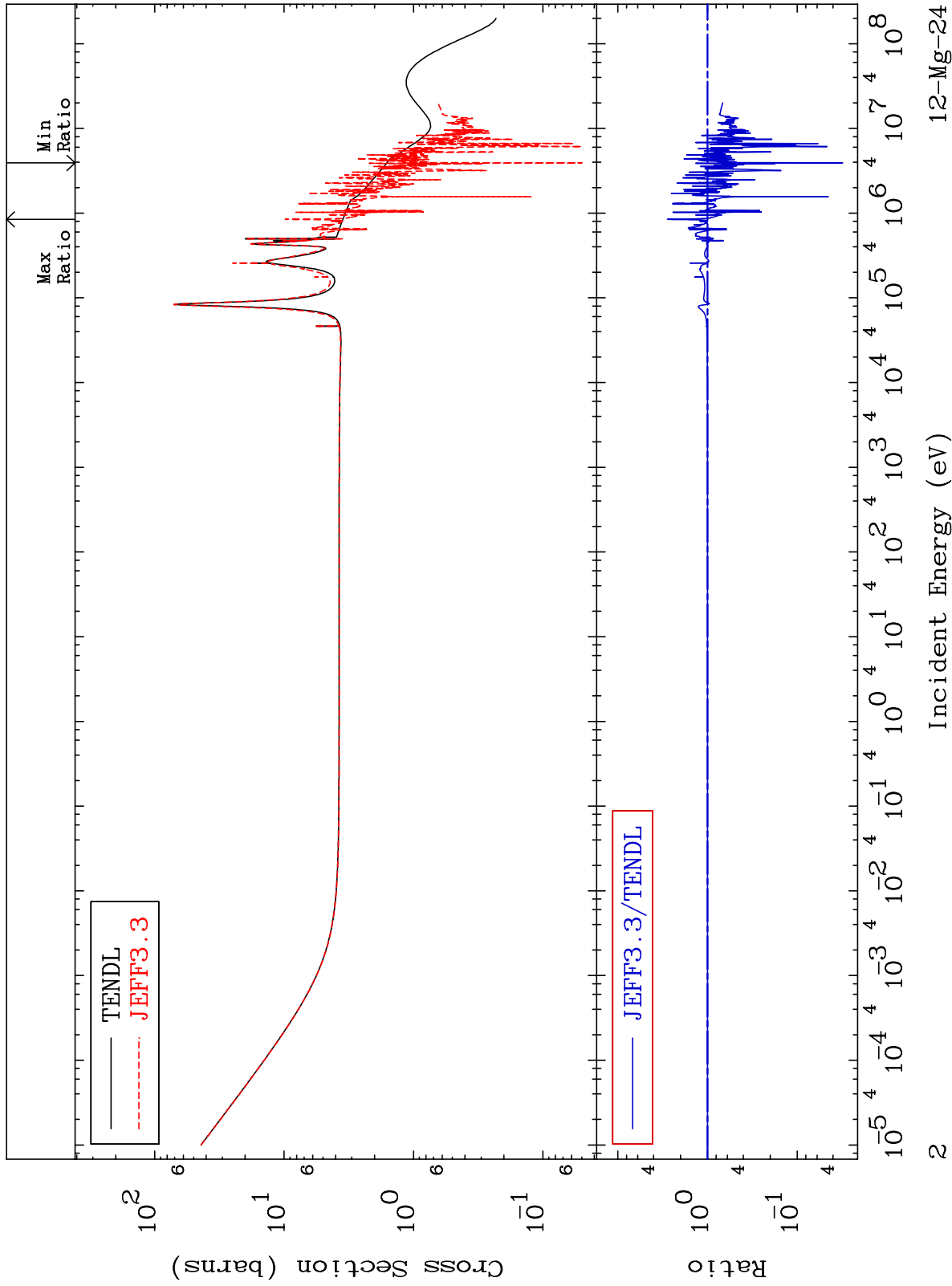


12-Mg-24

MAT 1225

Elastic
Cross Section

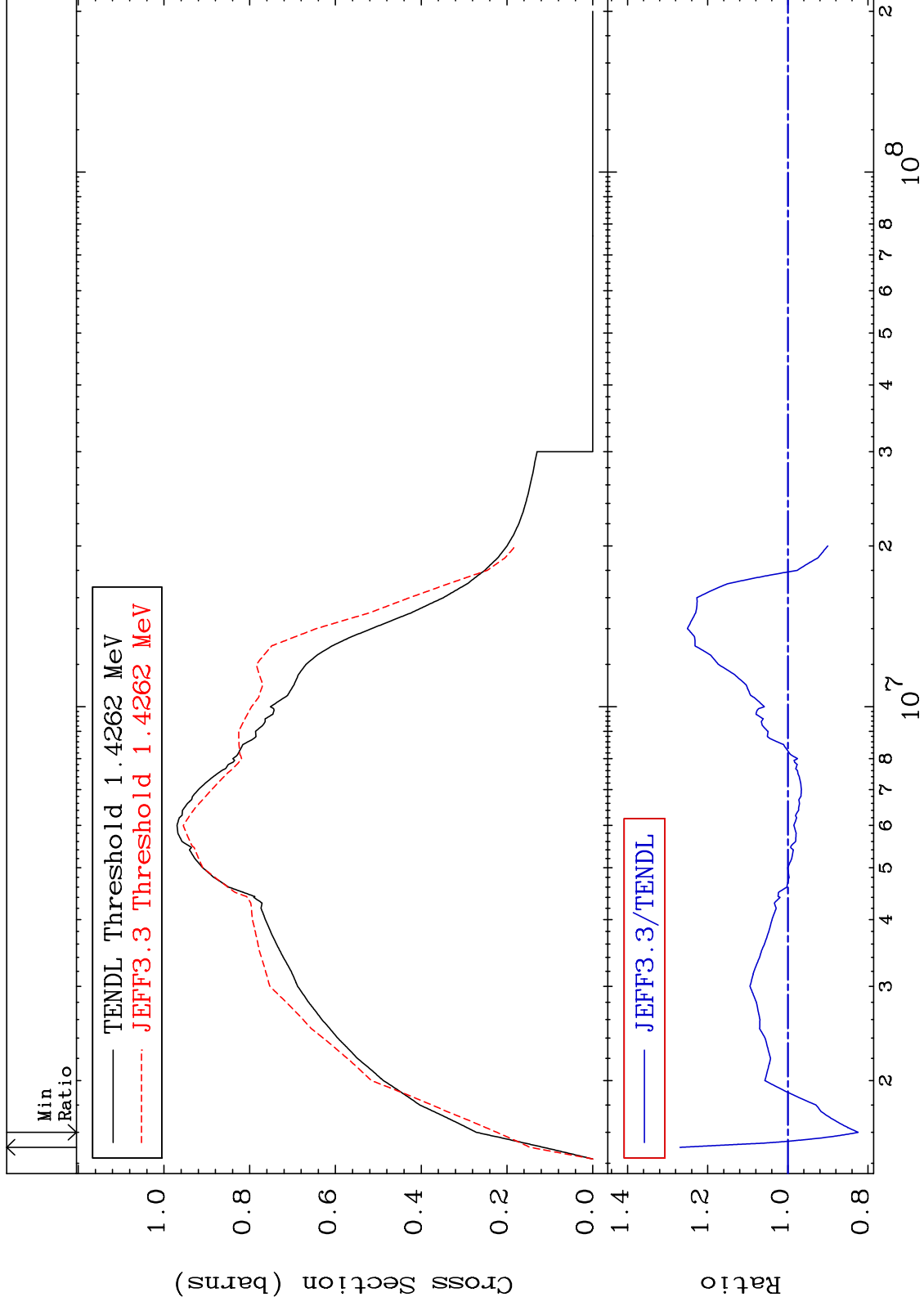
12-Mg-24
-96.89 To 178.8 %

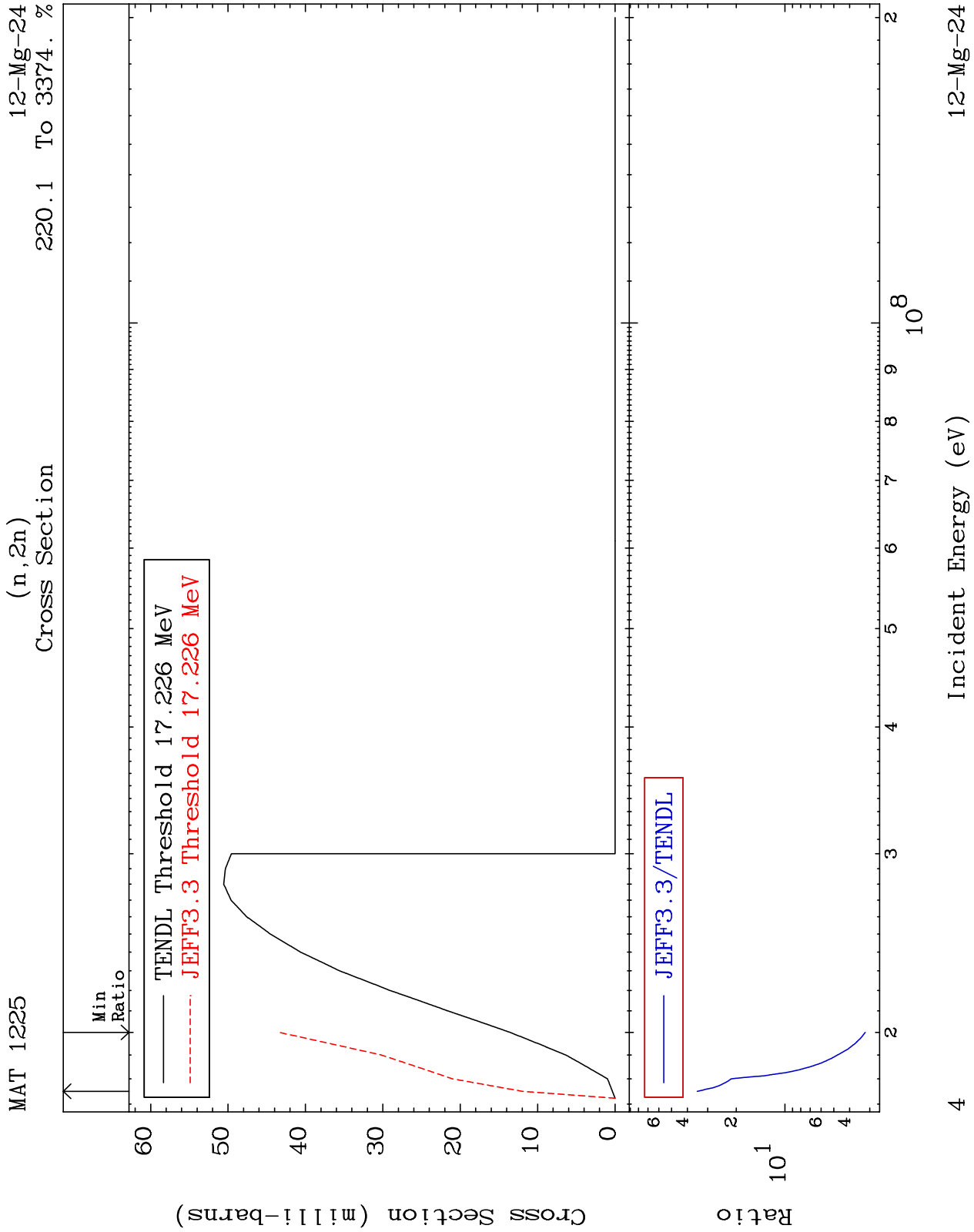


MAT 1225

Inelastic
Cross Section

12-Mg-24
-17.61 To 26.91 %





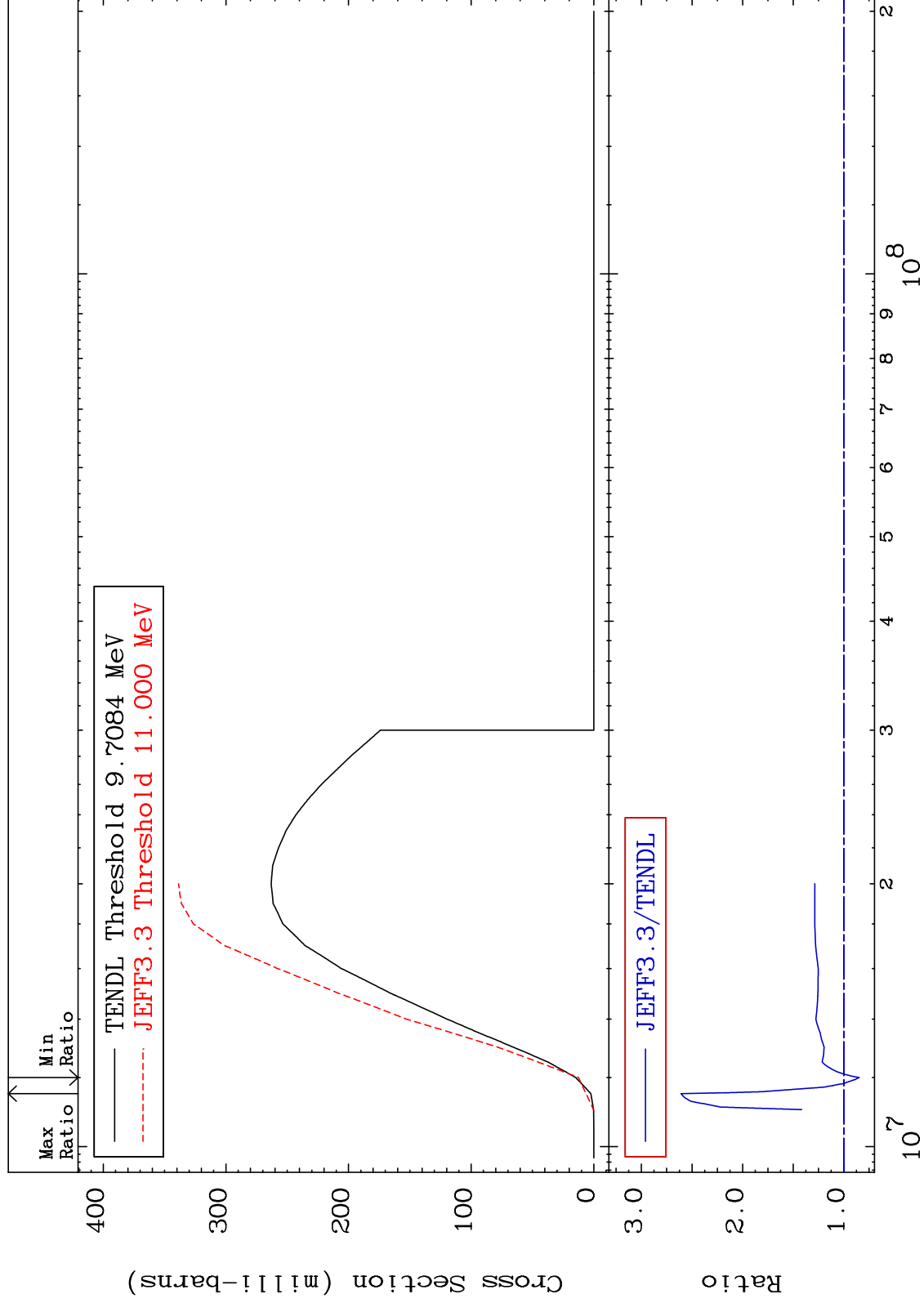
MAT 1225

(n, n') α

¹²Mg-24

Cross Section

-15.28 To 160.8 %



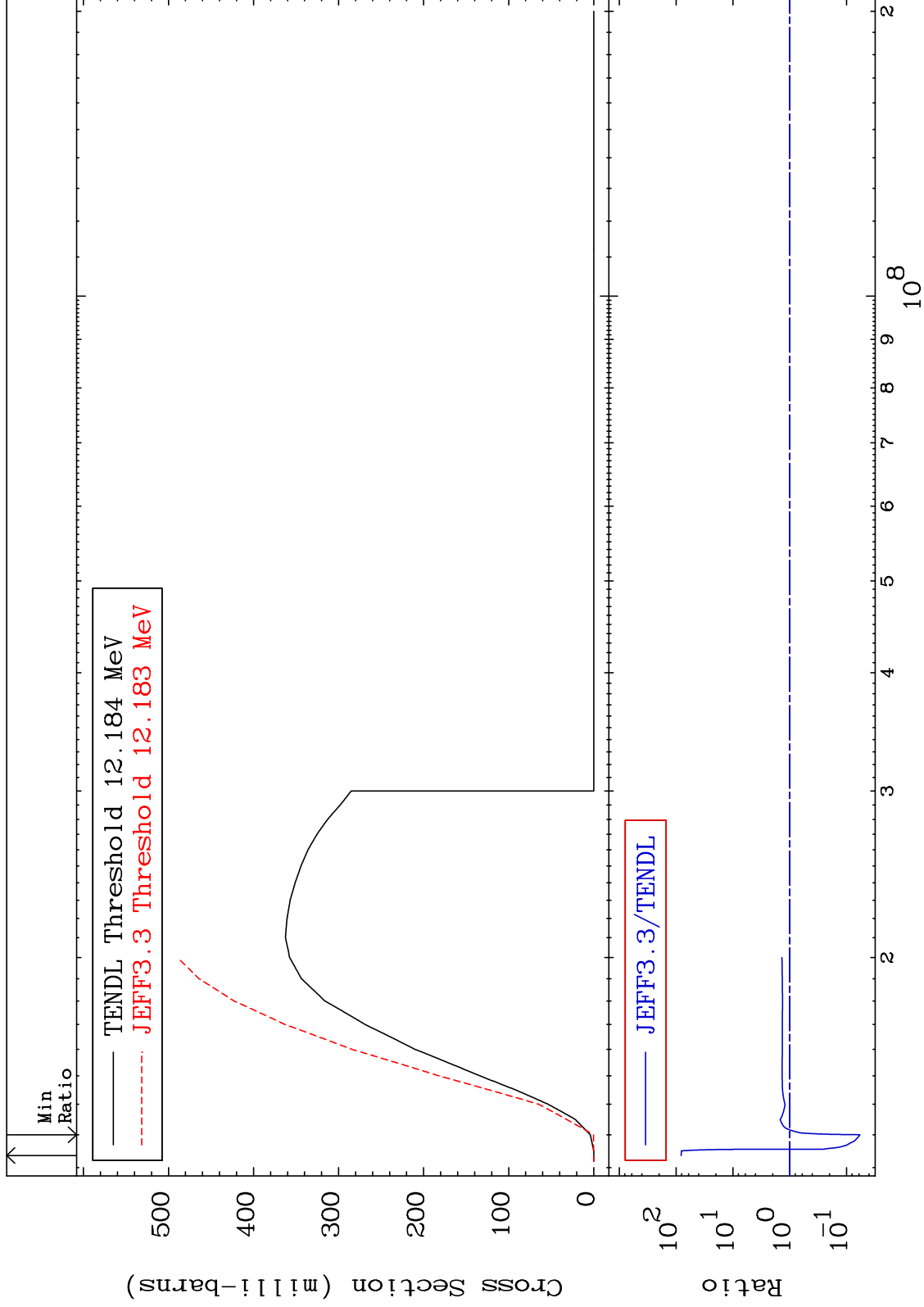
Incident Energy (eV)

¹²Mg-24

MAT 1225

(n,n') p
Cross Section

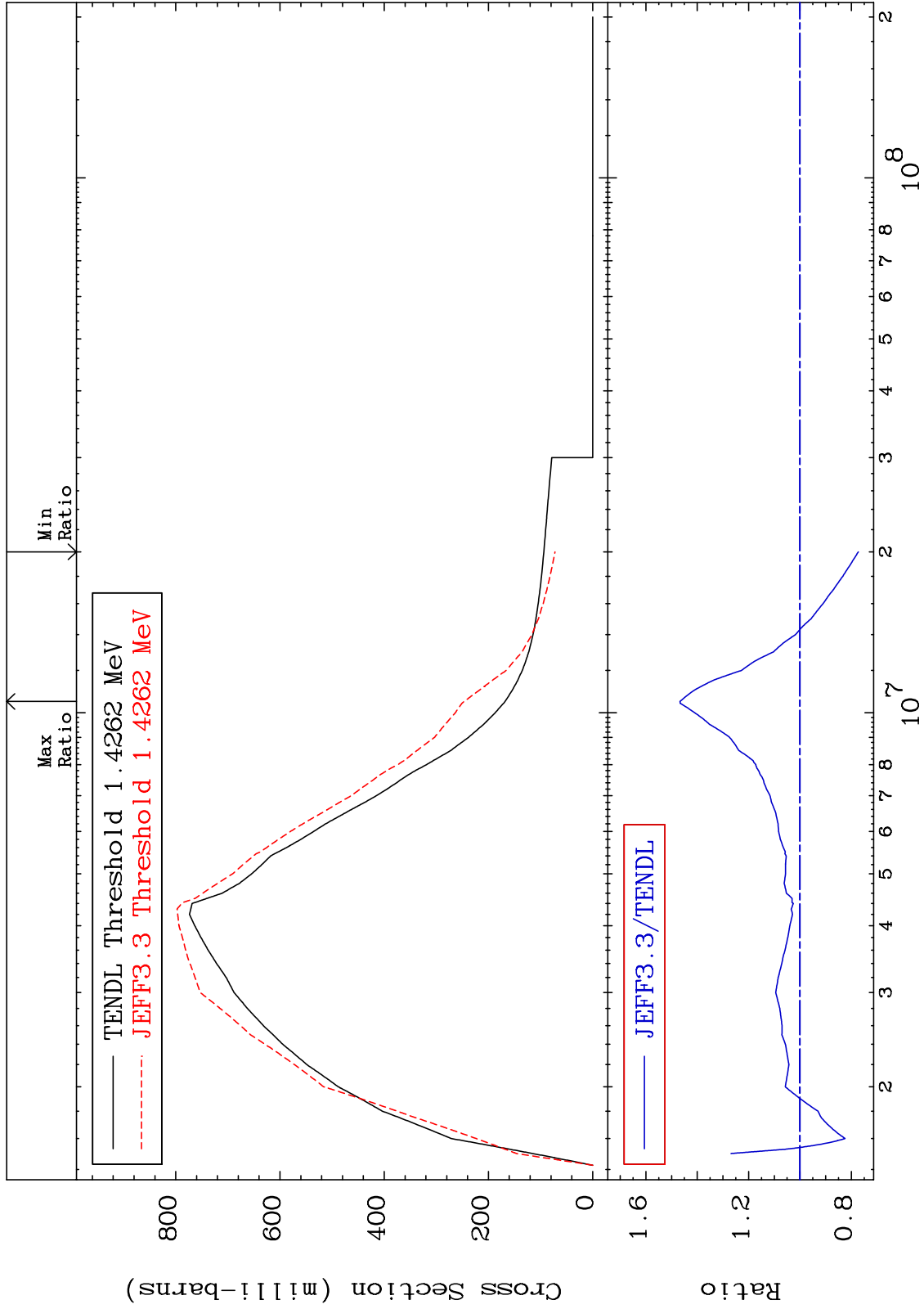
12-Mg-24
-94.20 To 8019. %



MAT 1225

MT= 51 (n,n') Level
Cross Section

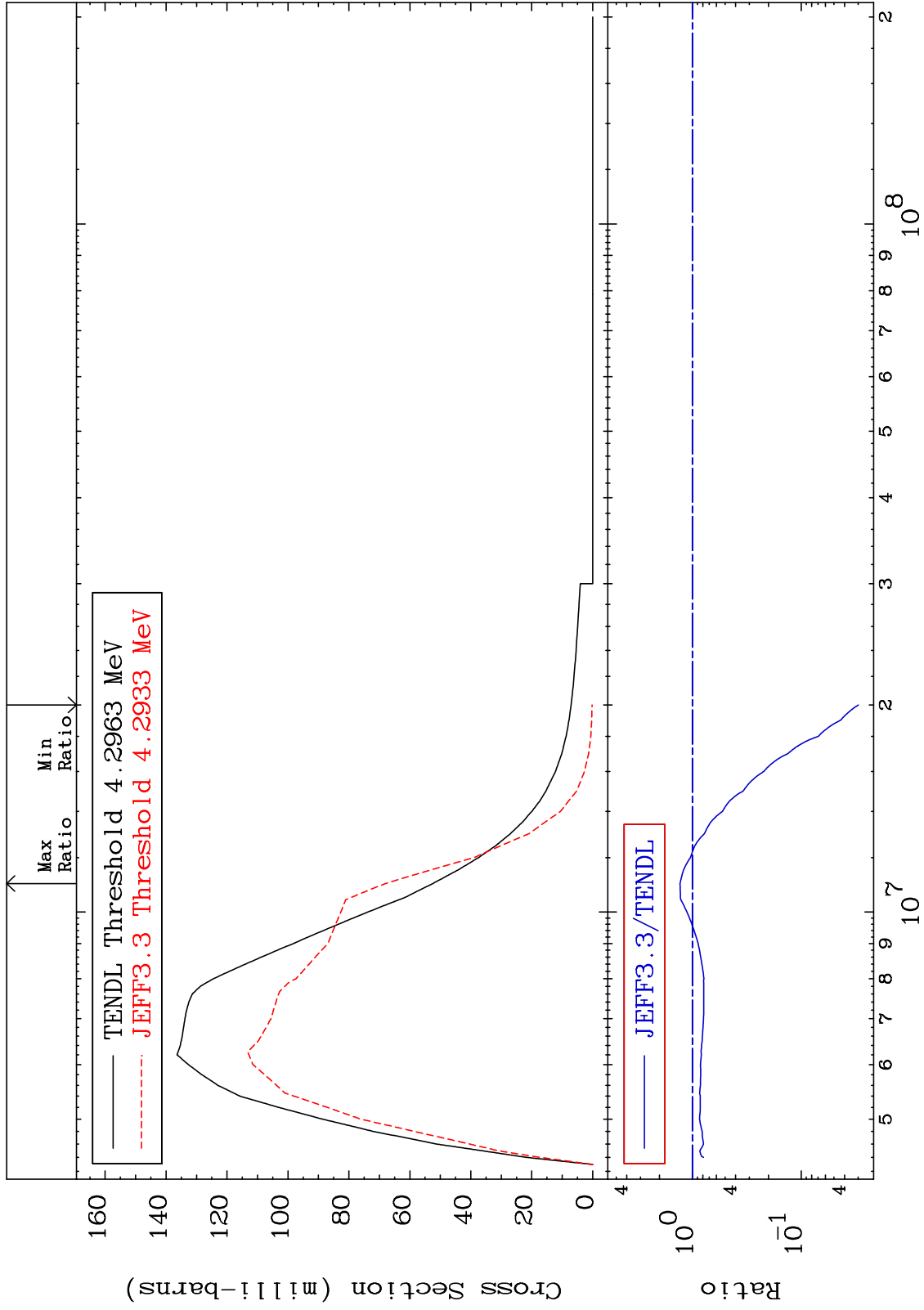
12-Mg-24
-22.76 To 46.71 %



MAT 1225

MT= 52 (n,n') Level
Cross Section

12-Mg-24
-97.02 To 29.72 %



8

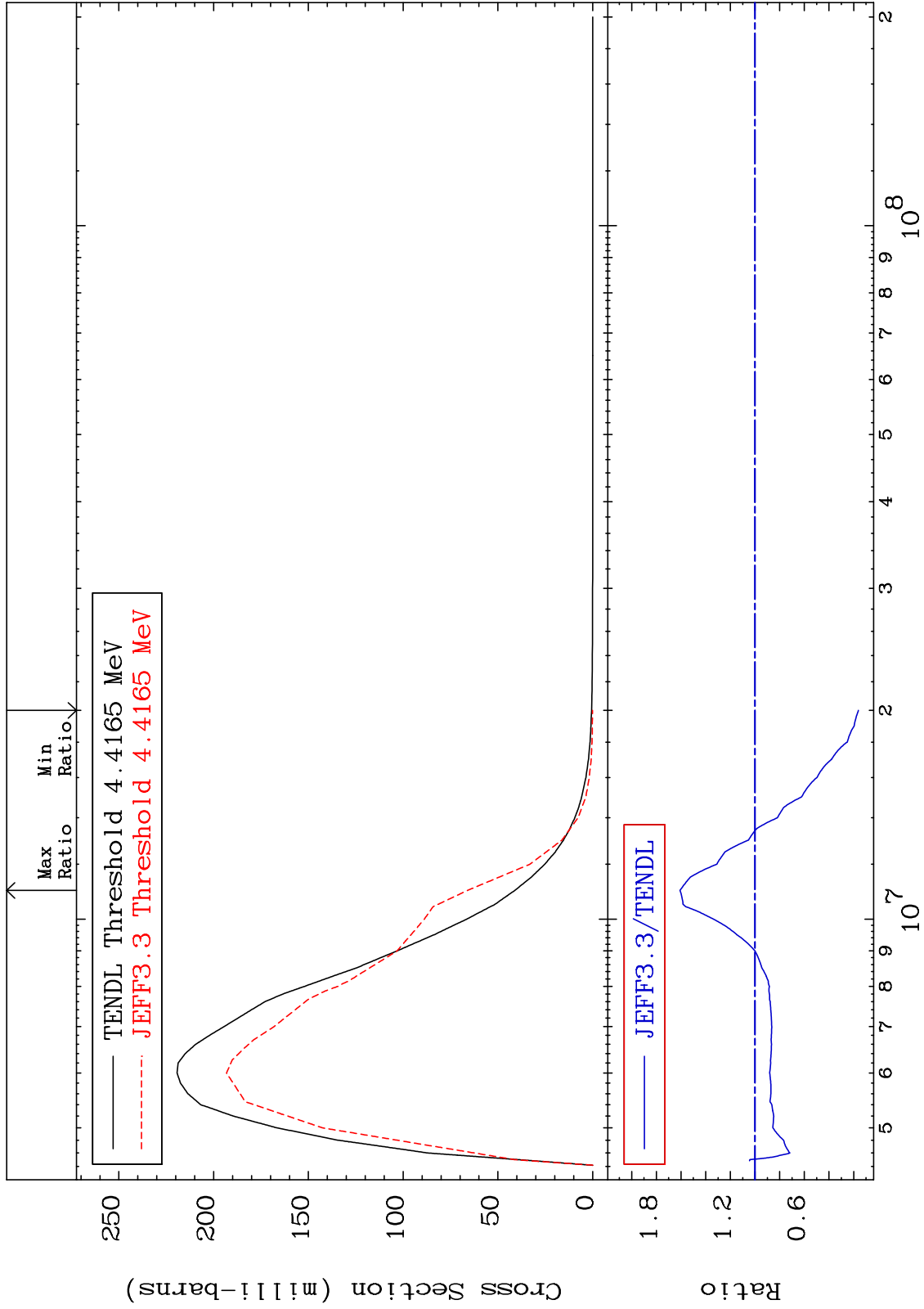
Incident Energy (eV)

12-Mg-24

MAT 1225

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

12-Mg-24
-83.83 To 60.80 %



9

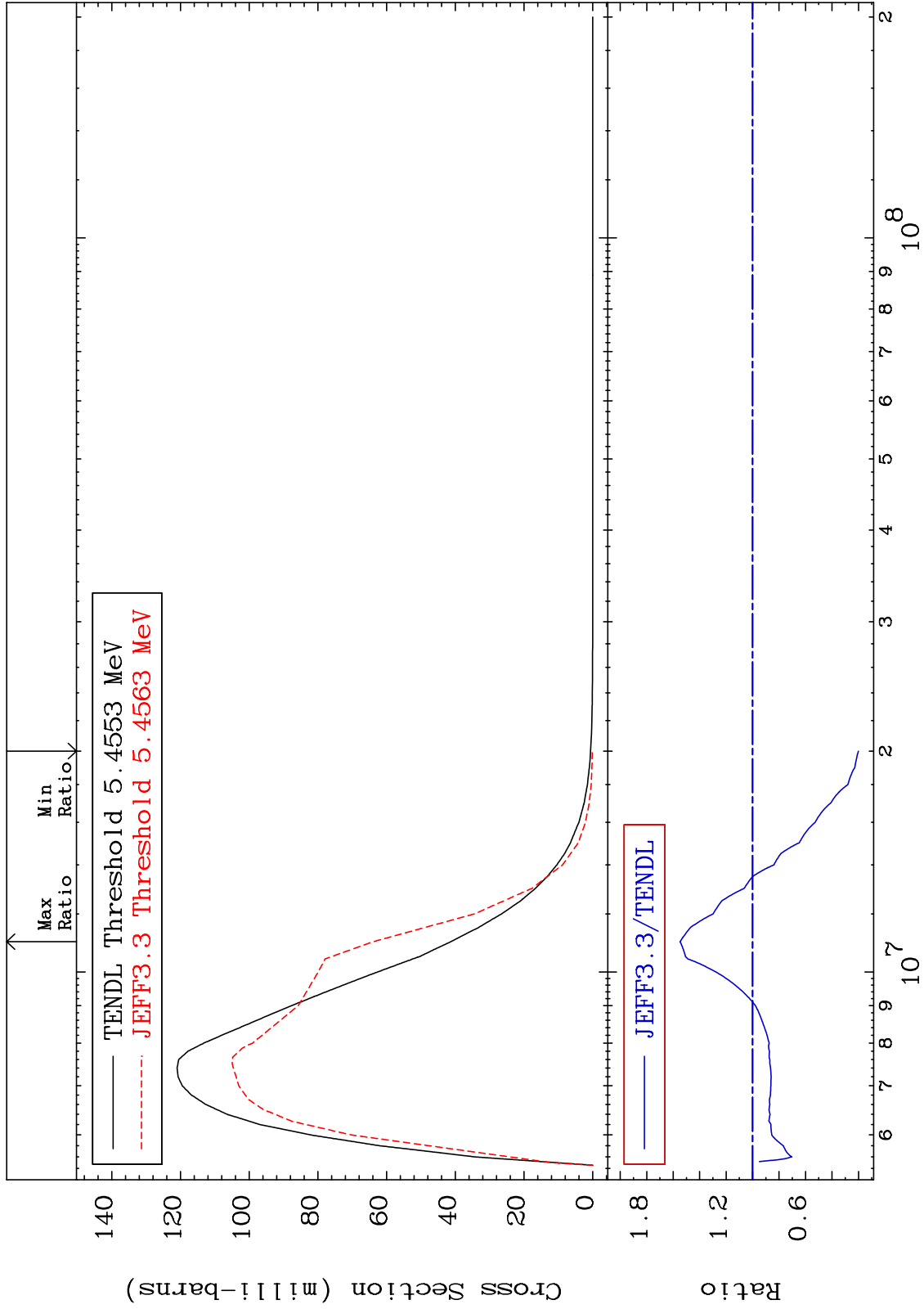
Incident Energy (eV)

12-Mg-24

MAT 1225

MT= 54 (n,n') Level
Cross Section

12-Mg-24
-79.95 To 54.84 %



10

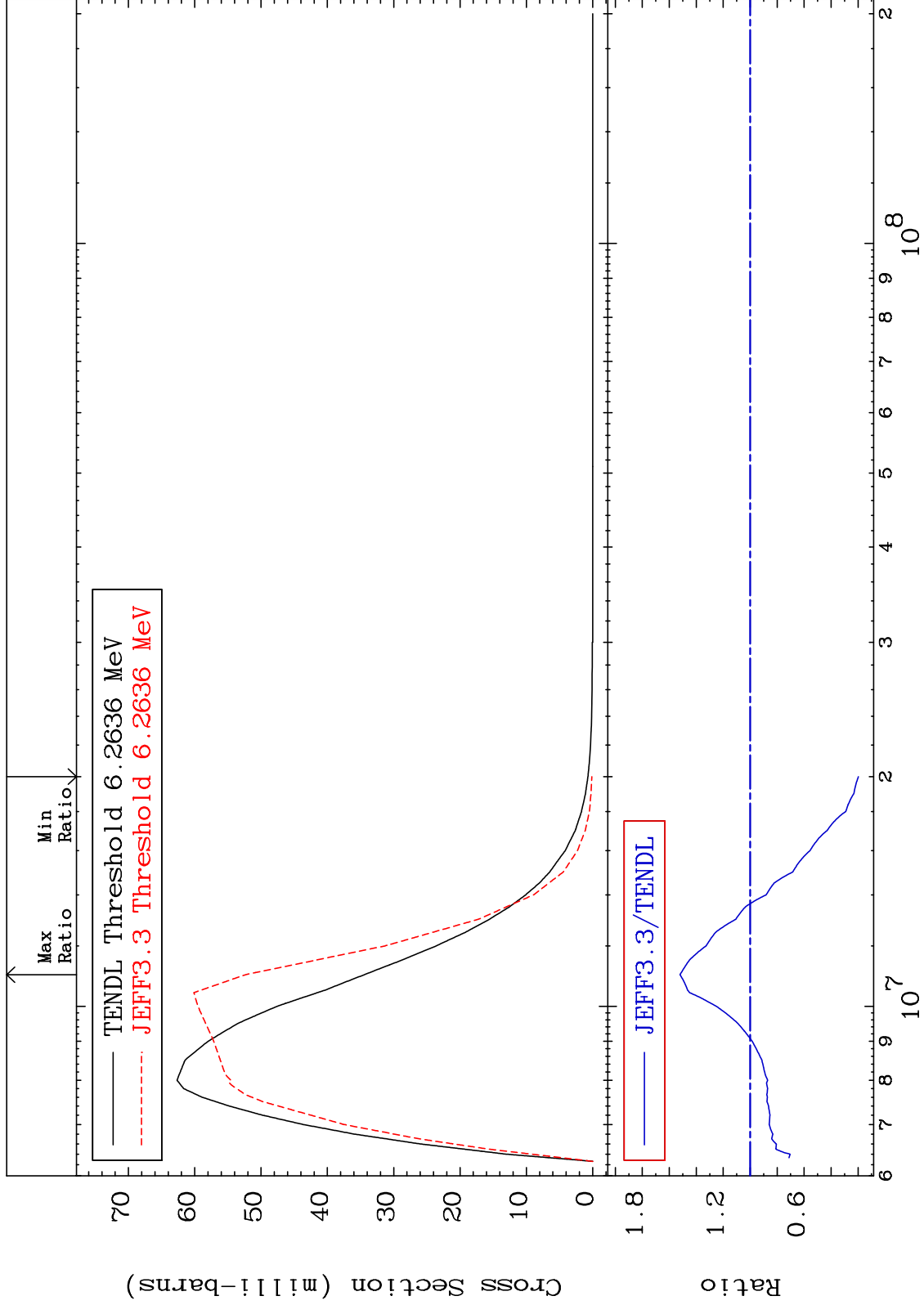
Incident Energy (eV)

12-Mg-24

MAT 1225

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

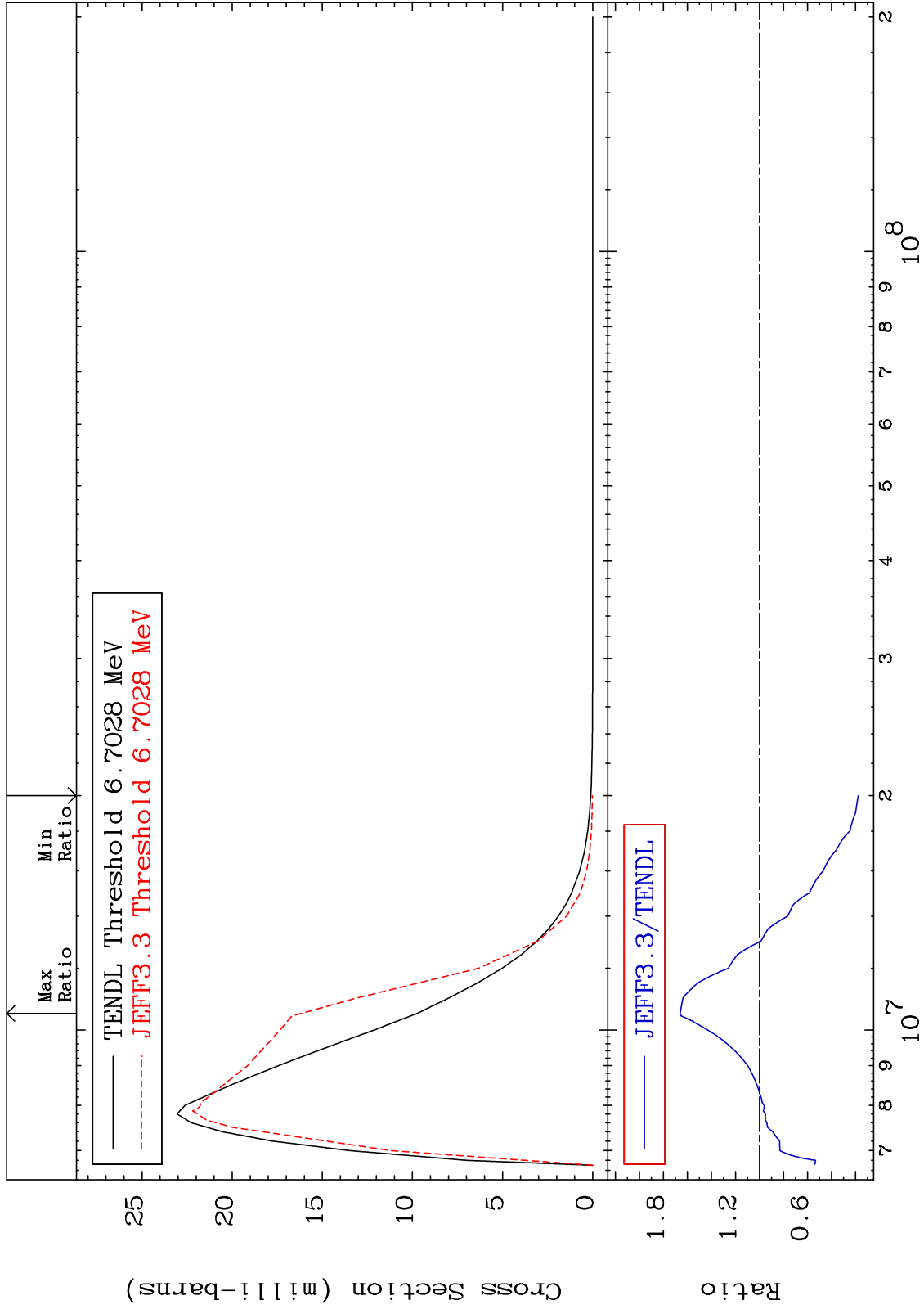
12-Mg-24
-80.26 To 52.04 %



MAT 1225

MT= 56 (n,n') Level
Cross Section

12-Mg-24
-82.40 To 66.19 %



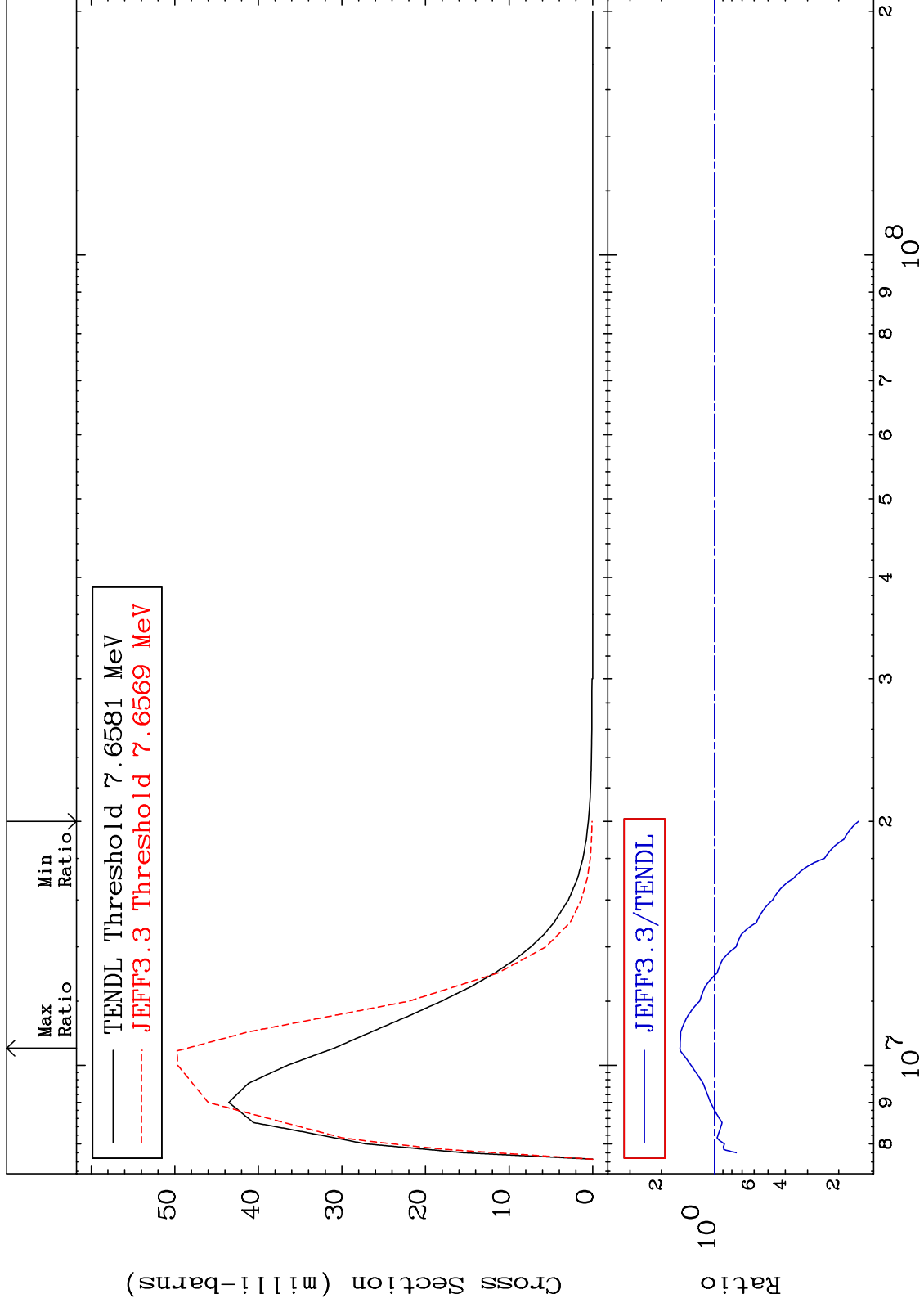
12

12-Mg-24

MAT 1225

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

12-Mg-24
-84.52 To 56.91 %



13

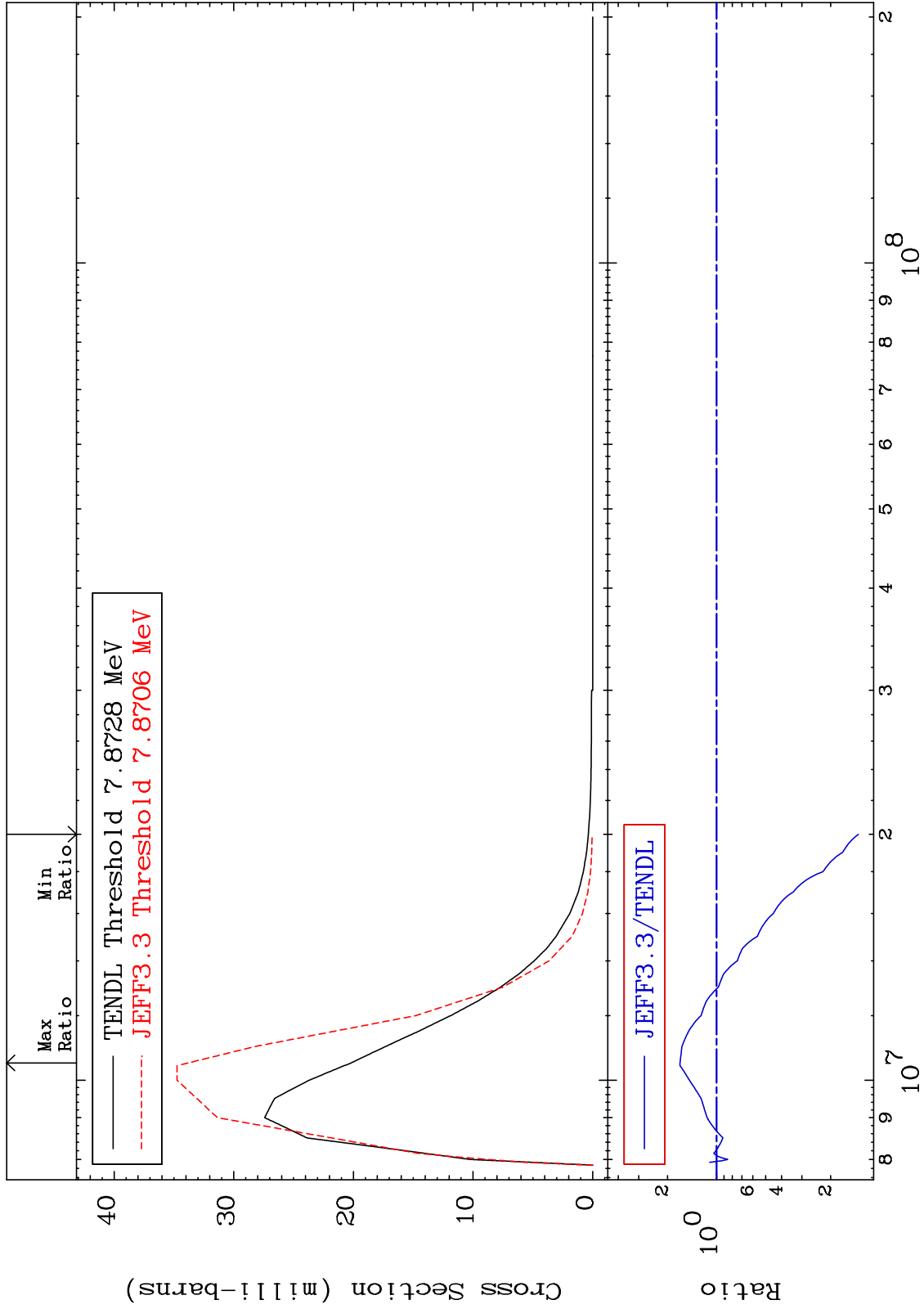
Incident Energy (eV)

12-Mg-24

MAT 1225

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

12-Mg-24
-86.48 To 67.47 %



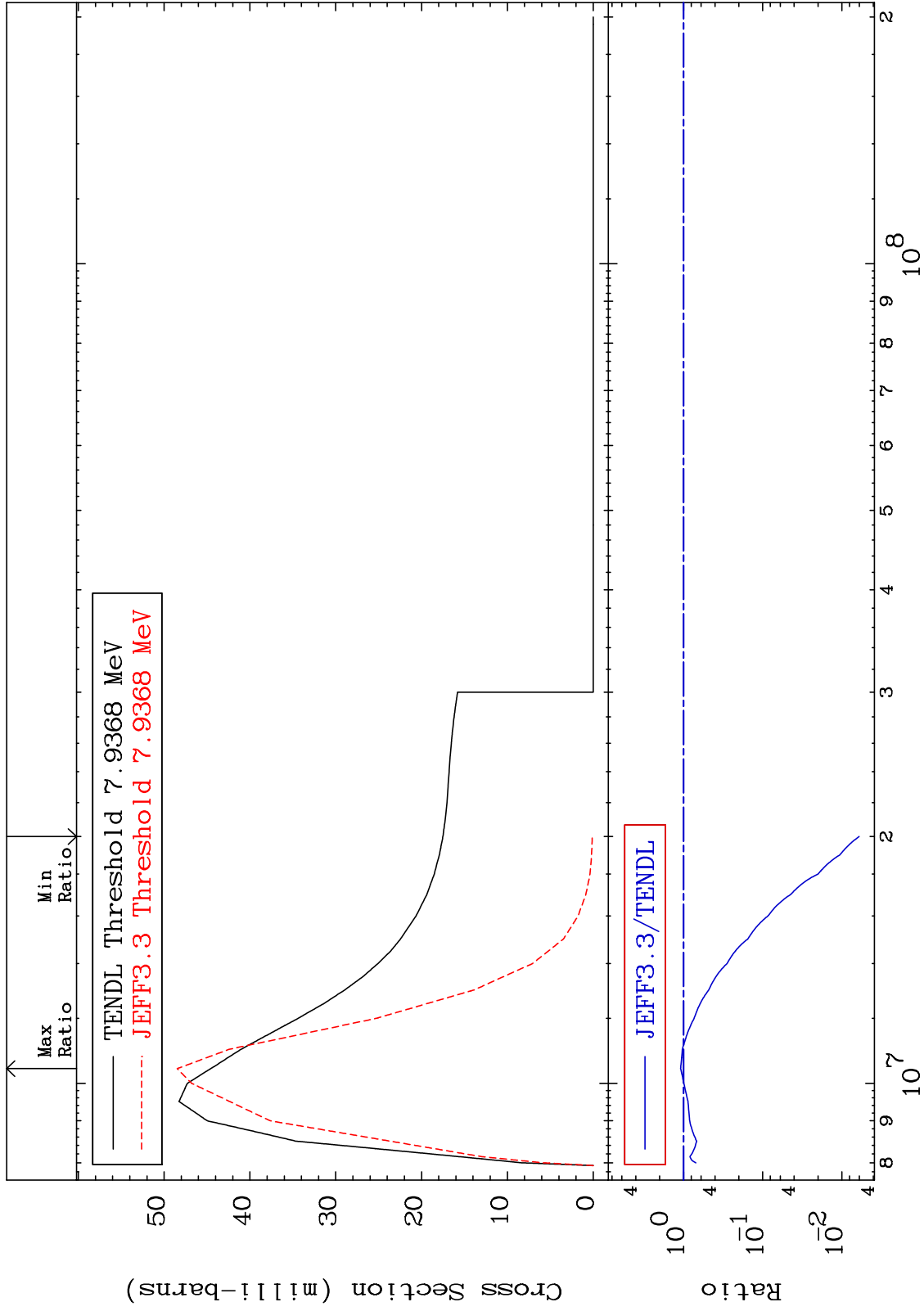
14

12-Mg-24

MAT 1225

MT= 59 (n,n') Level
Cross Section

12-Mg-24
-99.40 To 8.770 %



15

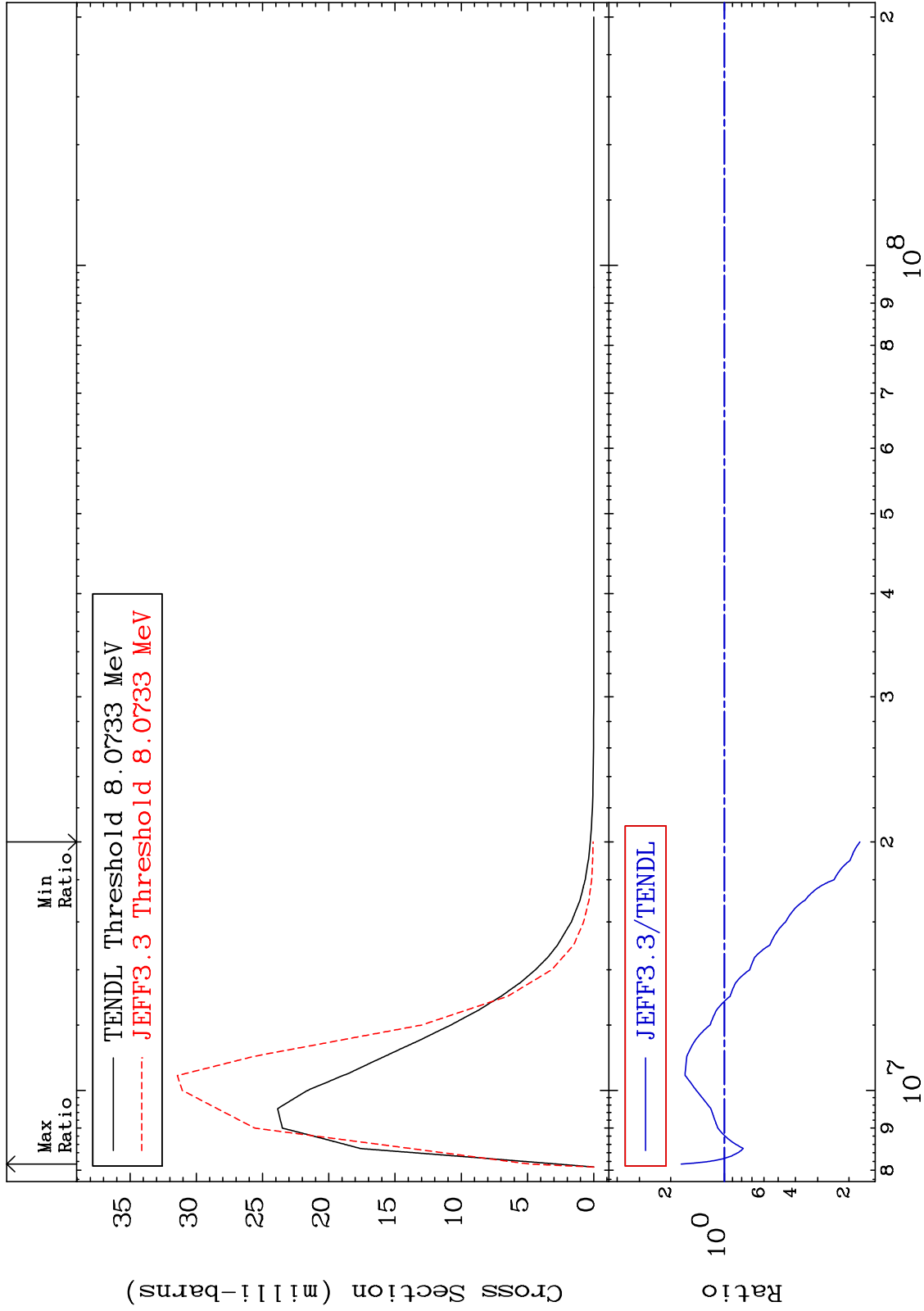
Incident Energy (eV)

12-Mg-24

MAT 1225

MT= 60 (n,n') Level
Cross Section

12-Mg-24
-82.63 To 74.67 %



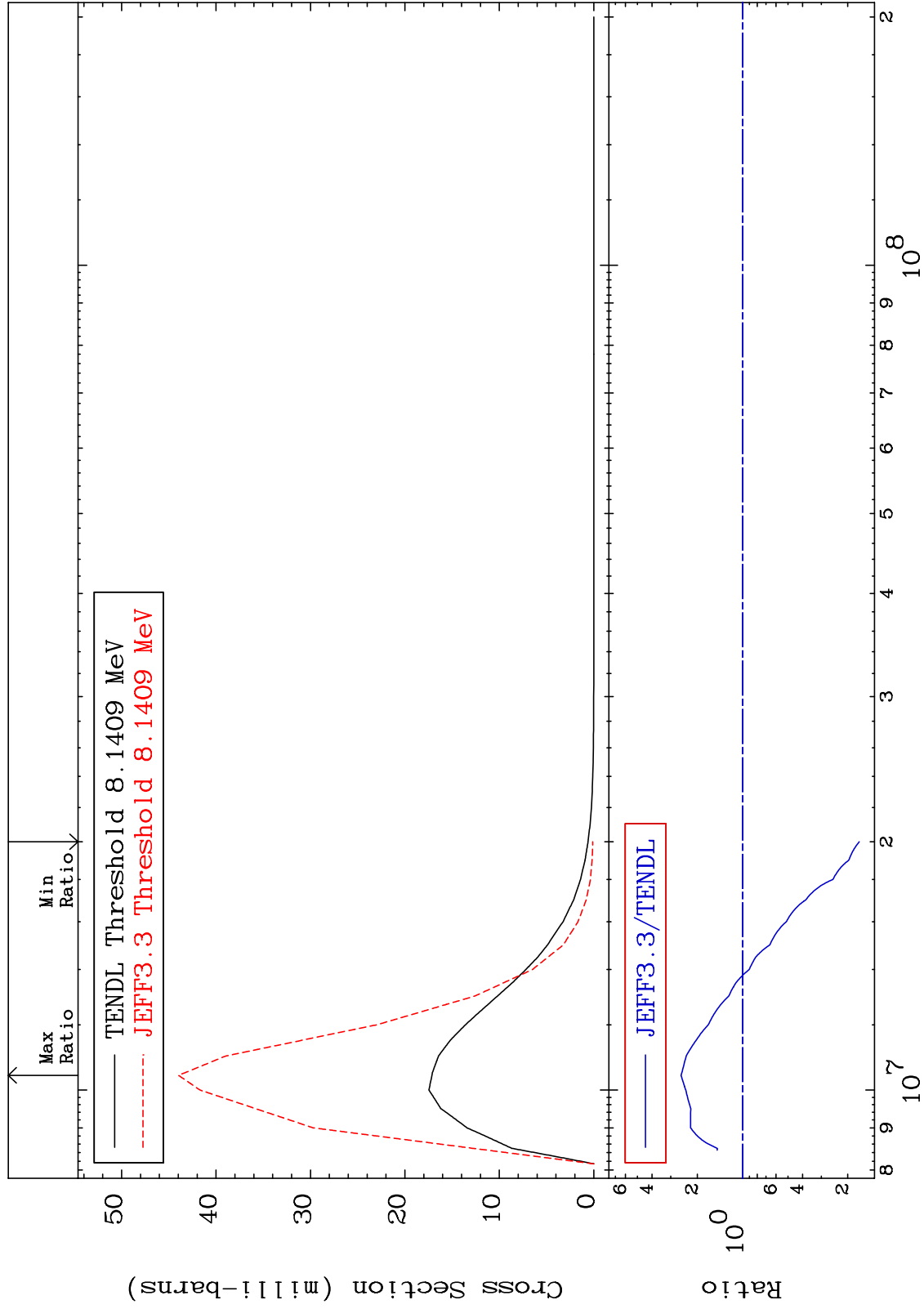
16

12-Mg-24

MAT 1225

MT= 61 (n,n') Level
Cross Section

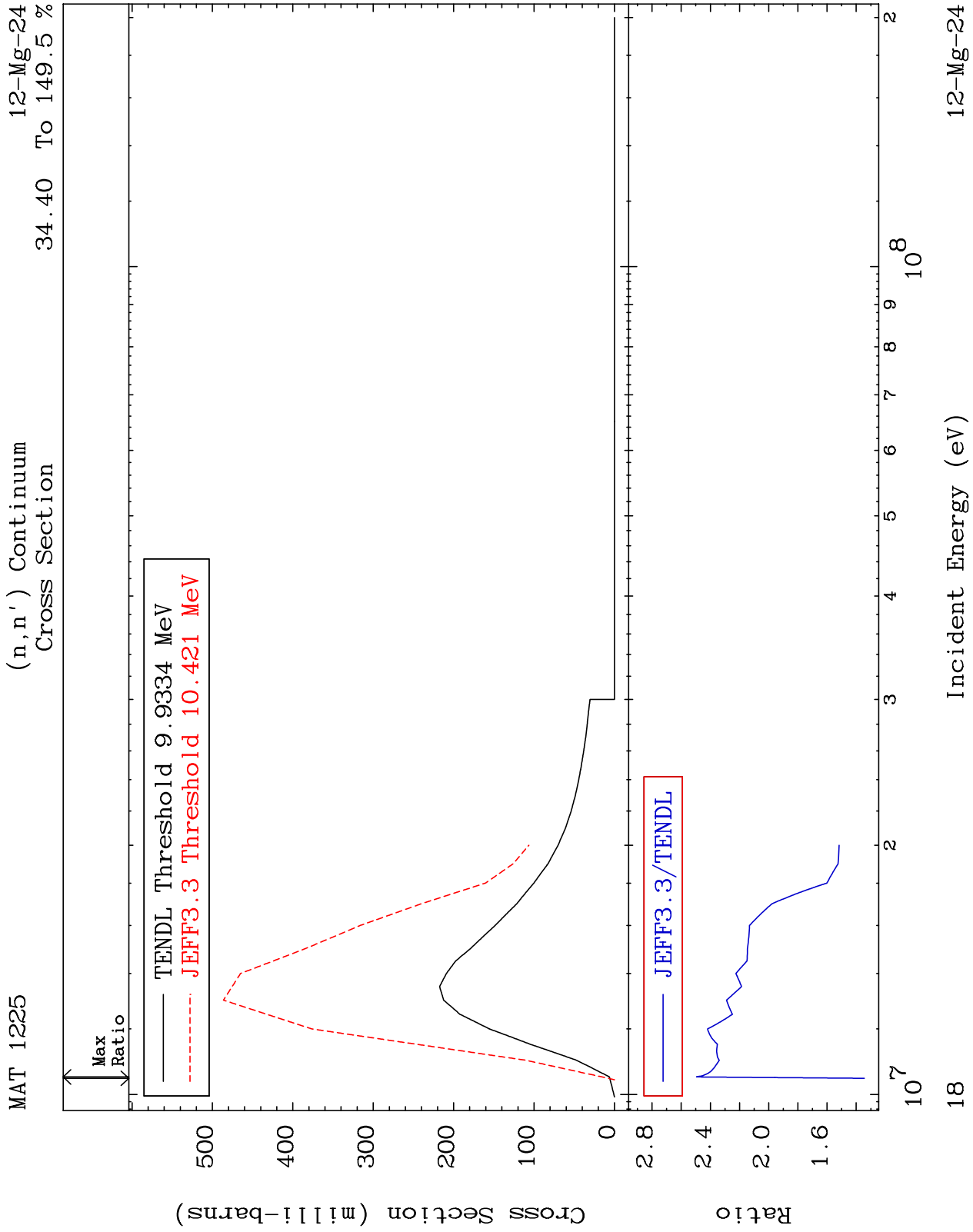
12-Mg-24
-83.23 To 156.5 %



17

Incident Energy (eV)

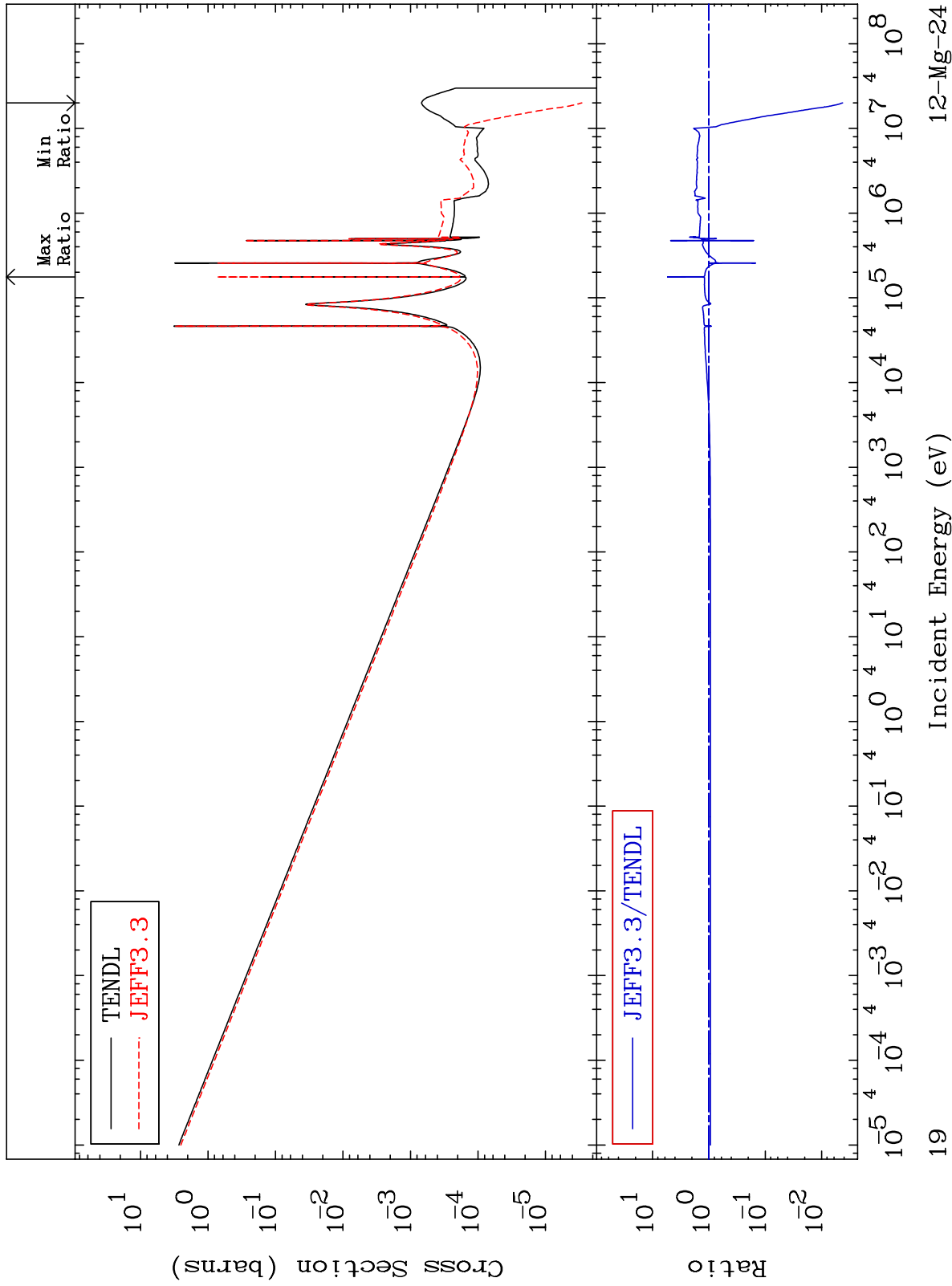
12-Mg-24



MAT 1225

(n, γ)
Cross Section

12-Mg-24
-99.58 To 440.4 %



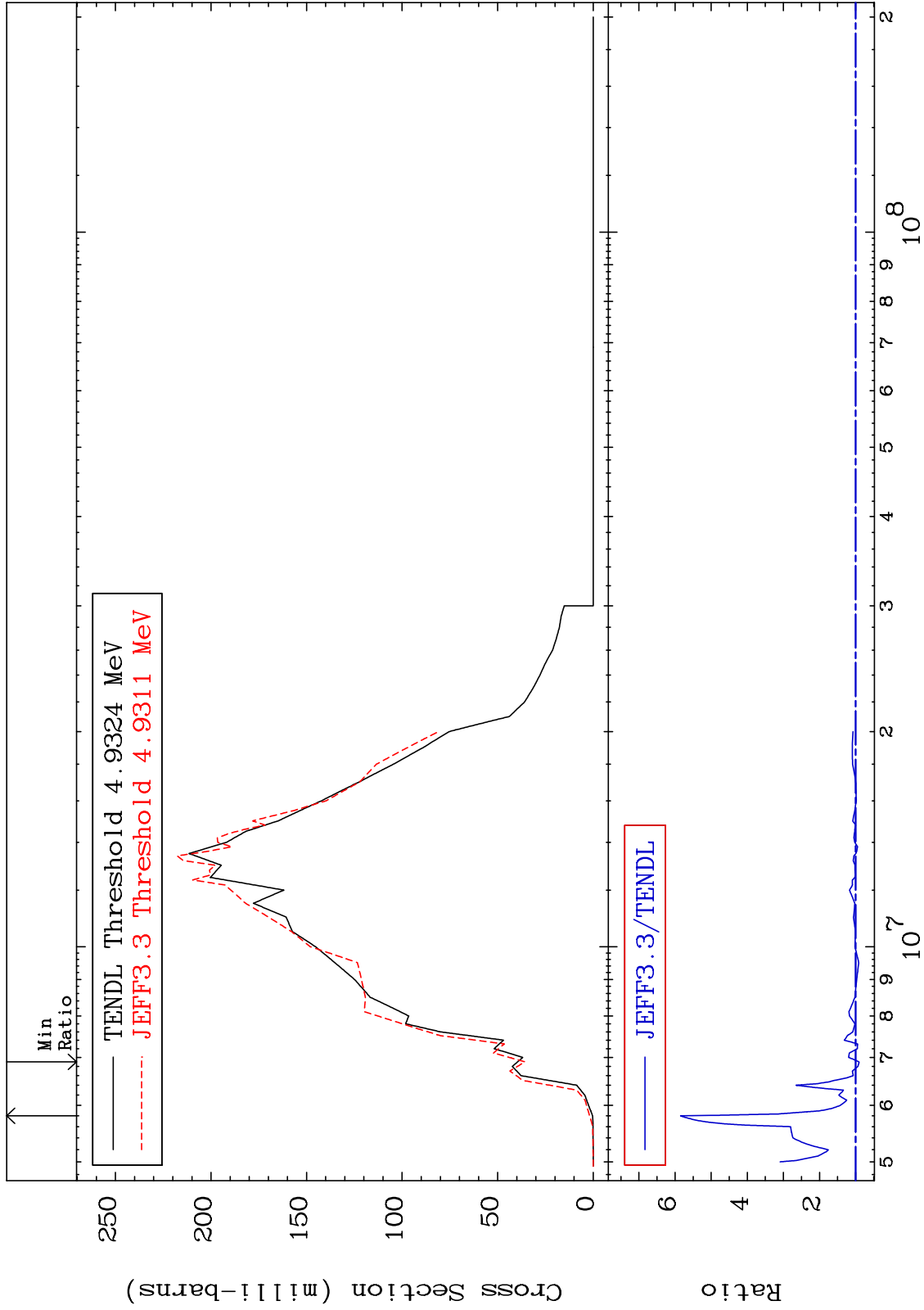
MAT 1225

(n,p)

$^{12}\text{Mg-24}$

Cross Section

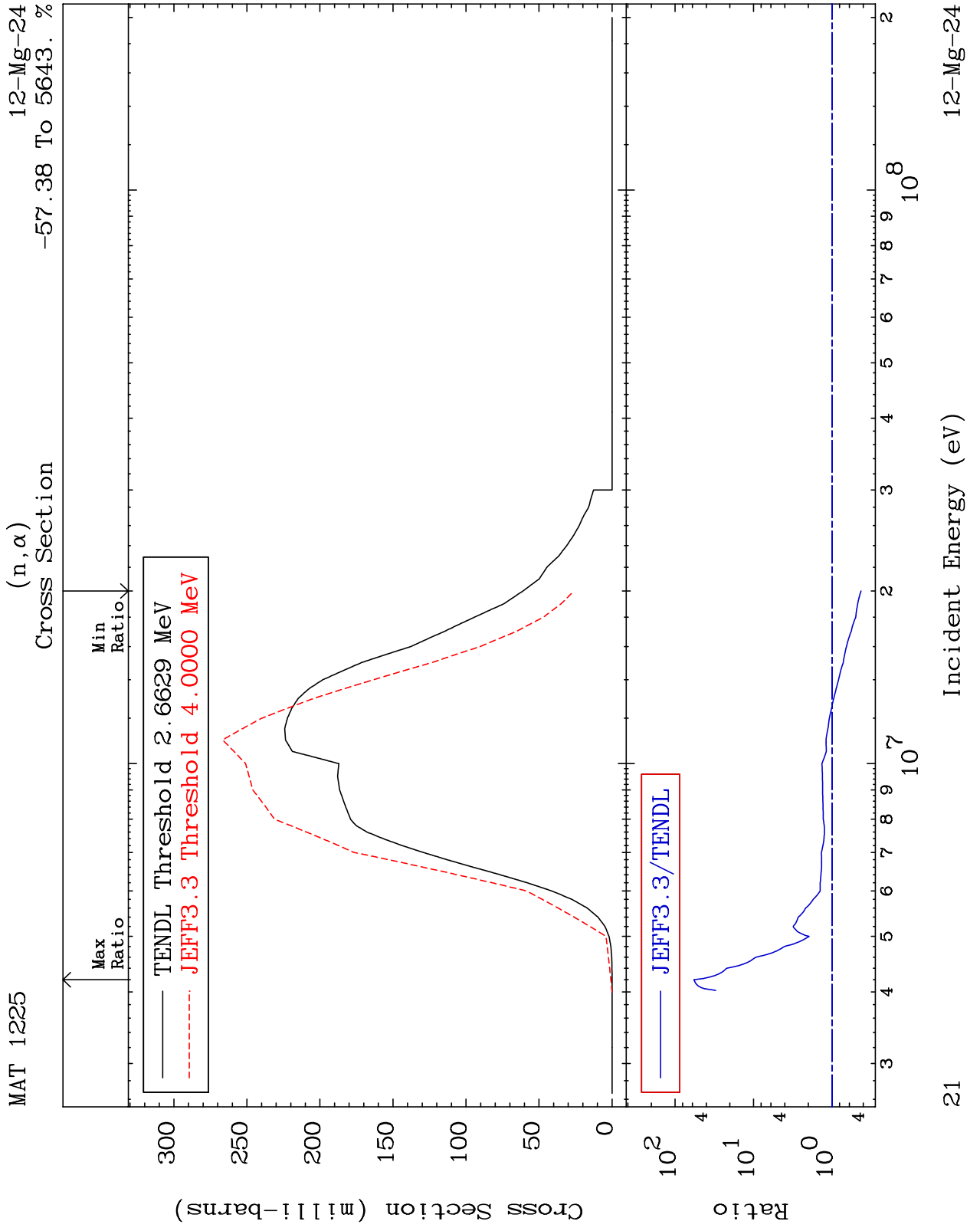
-9.858 To 484.6 %



20

Incident Energy (eV)

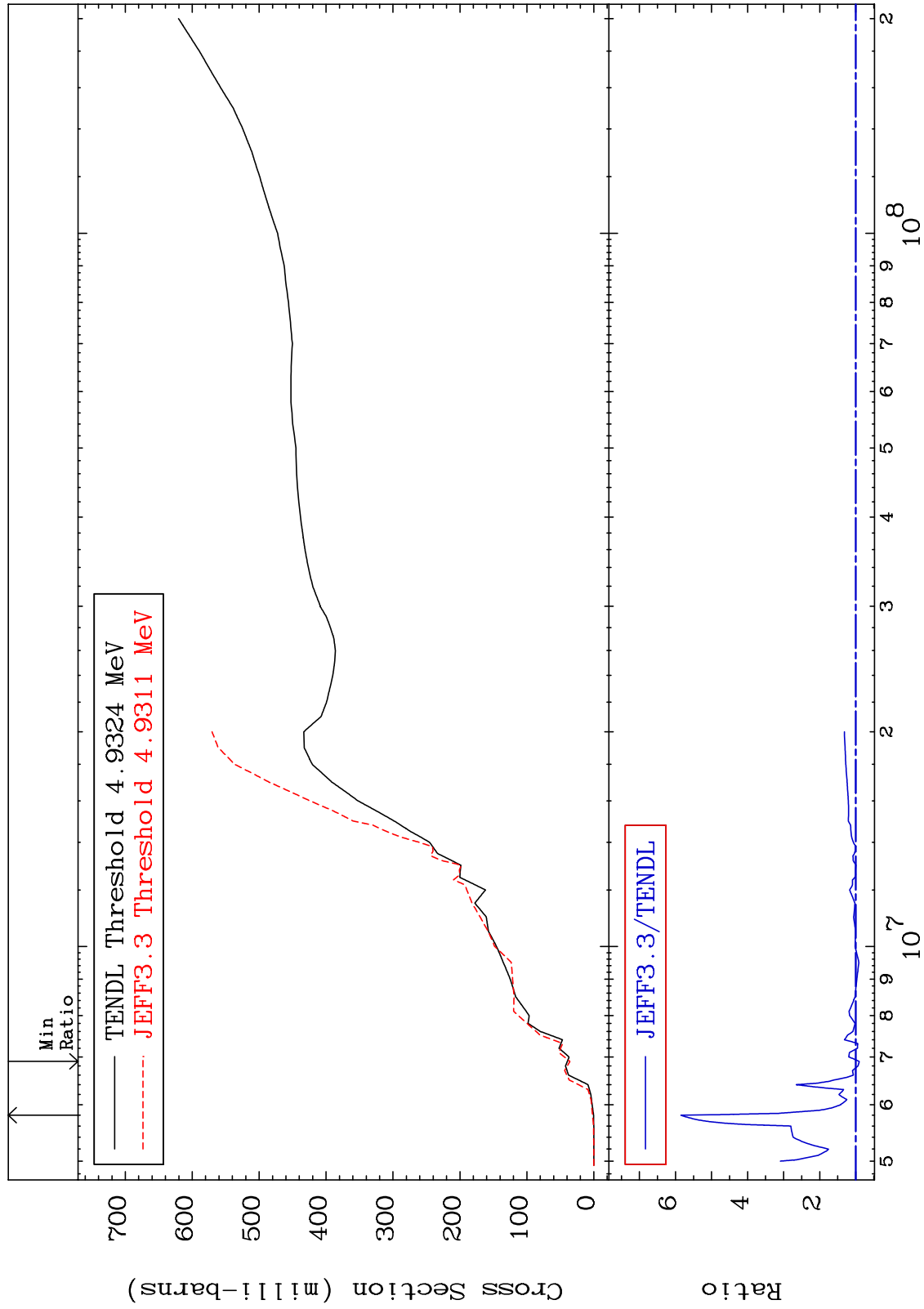
$^{12}\text{Mg-24}$



MAT 1225

Hydrogen Production
Cross Section

12-Mg-24
-9.858 To 484.6 %



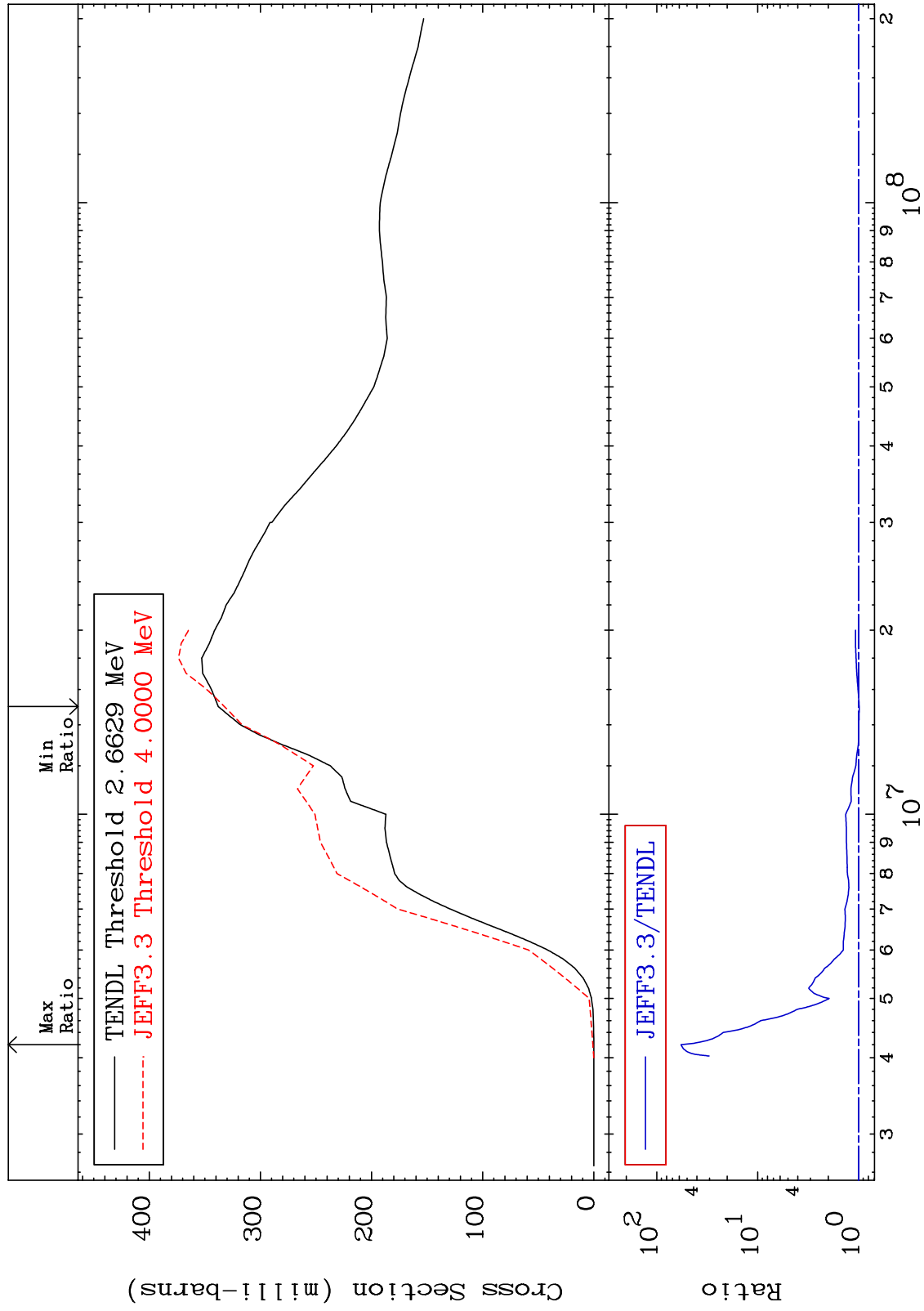
22

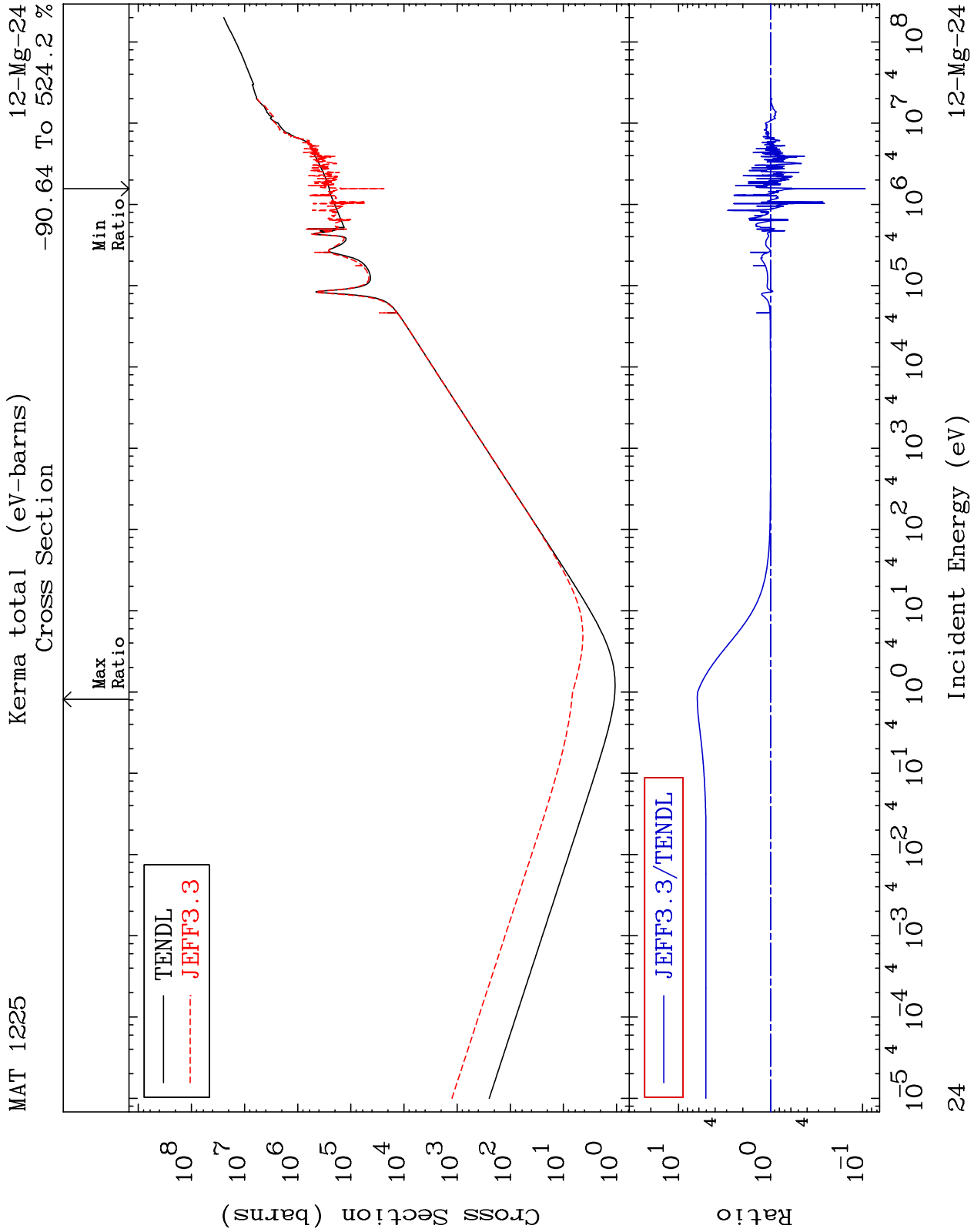
12-Mg-24

MAT 1225

He-4 Production
Cross Section

12-Mg-24
-1.636 To 5643. %

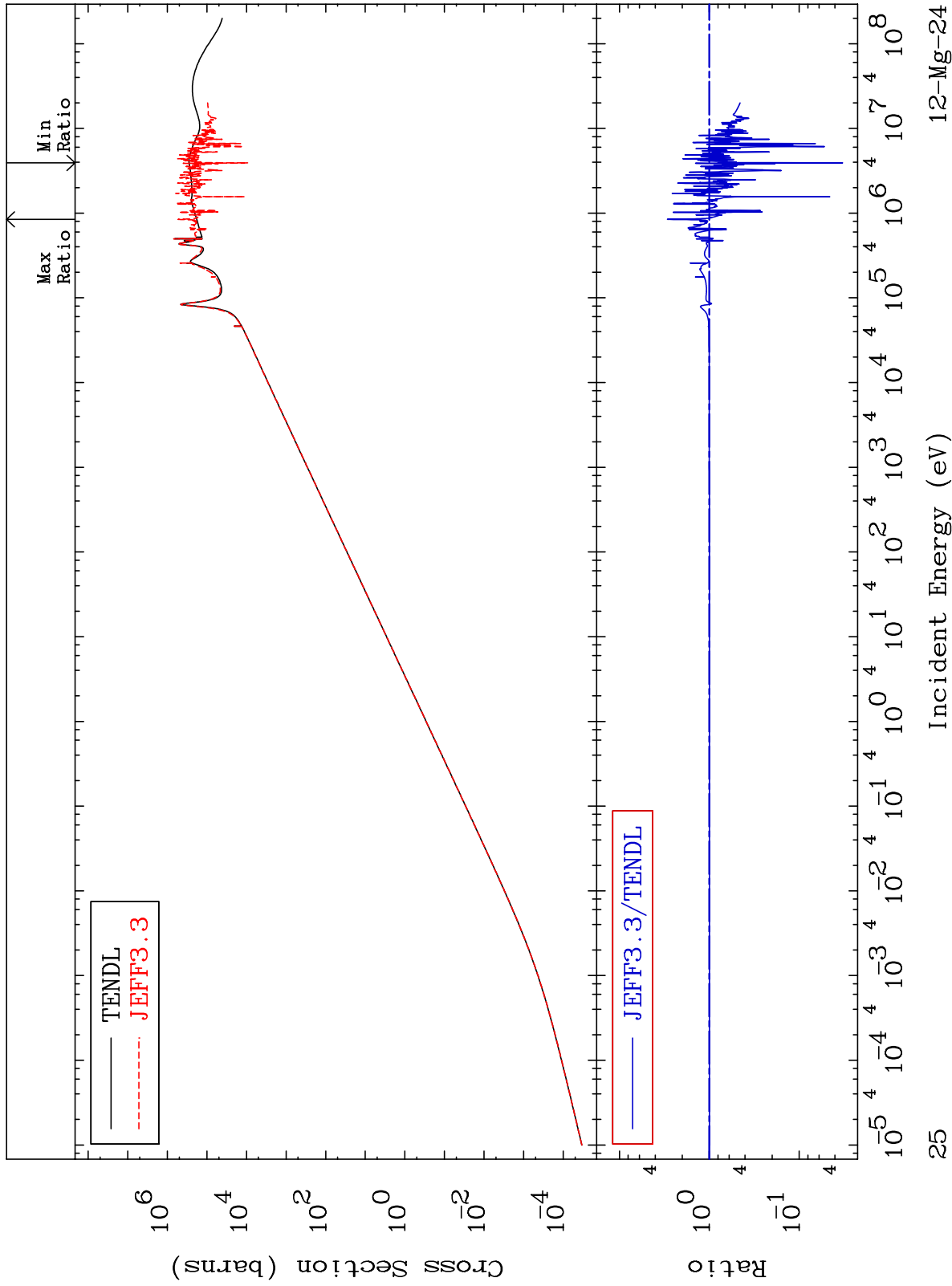




MAT 1225

Kerma elastic
Cross Section

12-Mg-24
-96.72 To 191.4 %



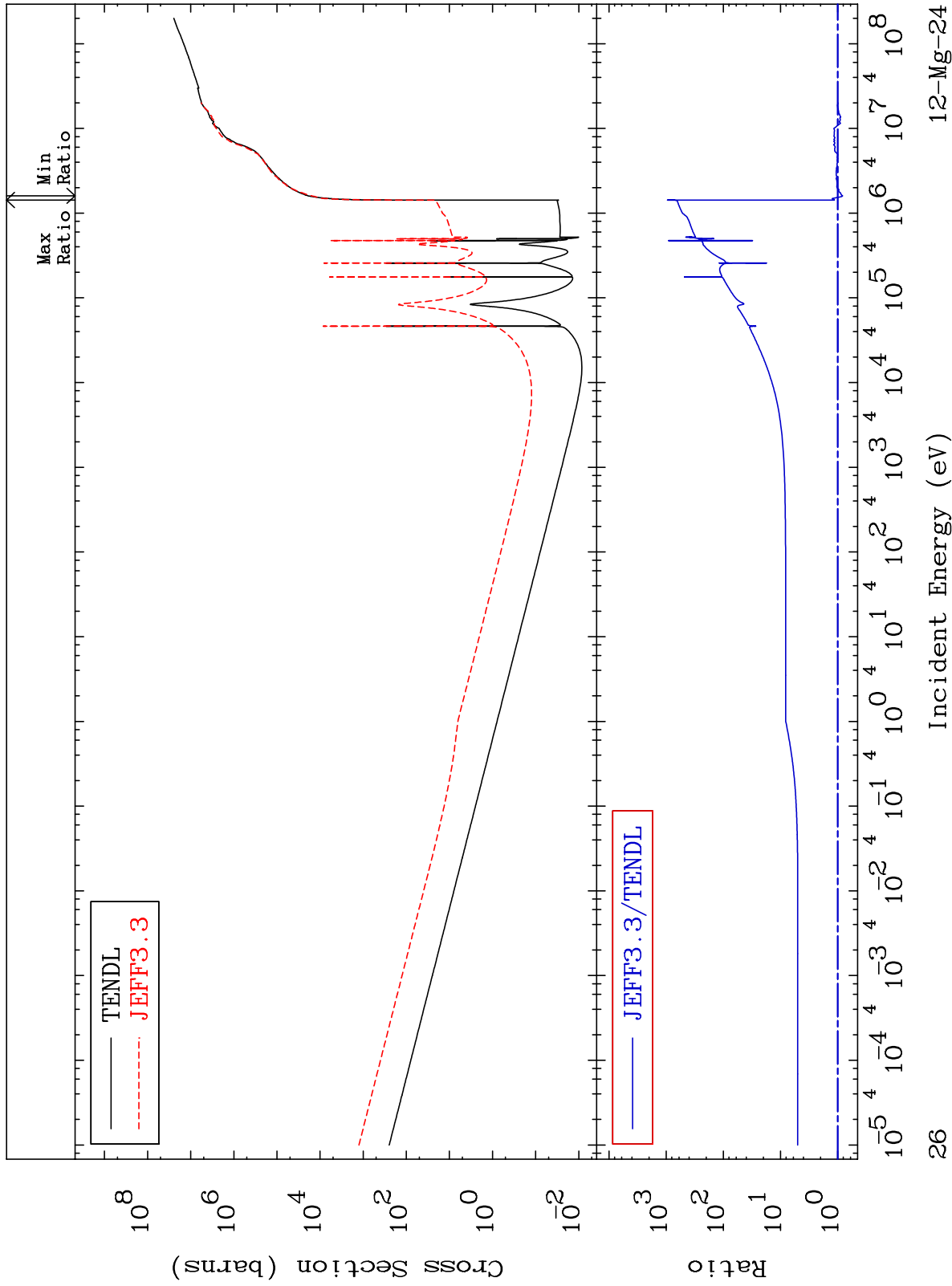
25

12-Mg-24

MAT 1225

Kerma non-elastic (all but mt2)
Cross Section

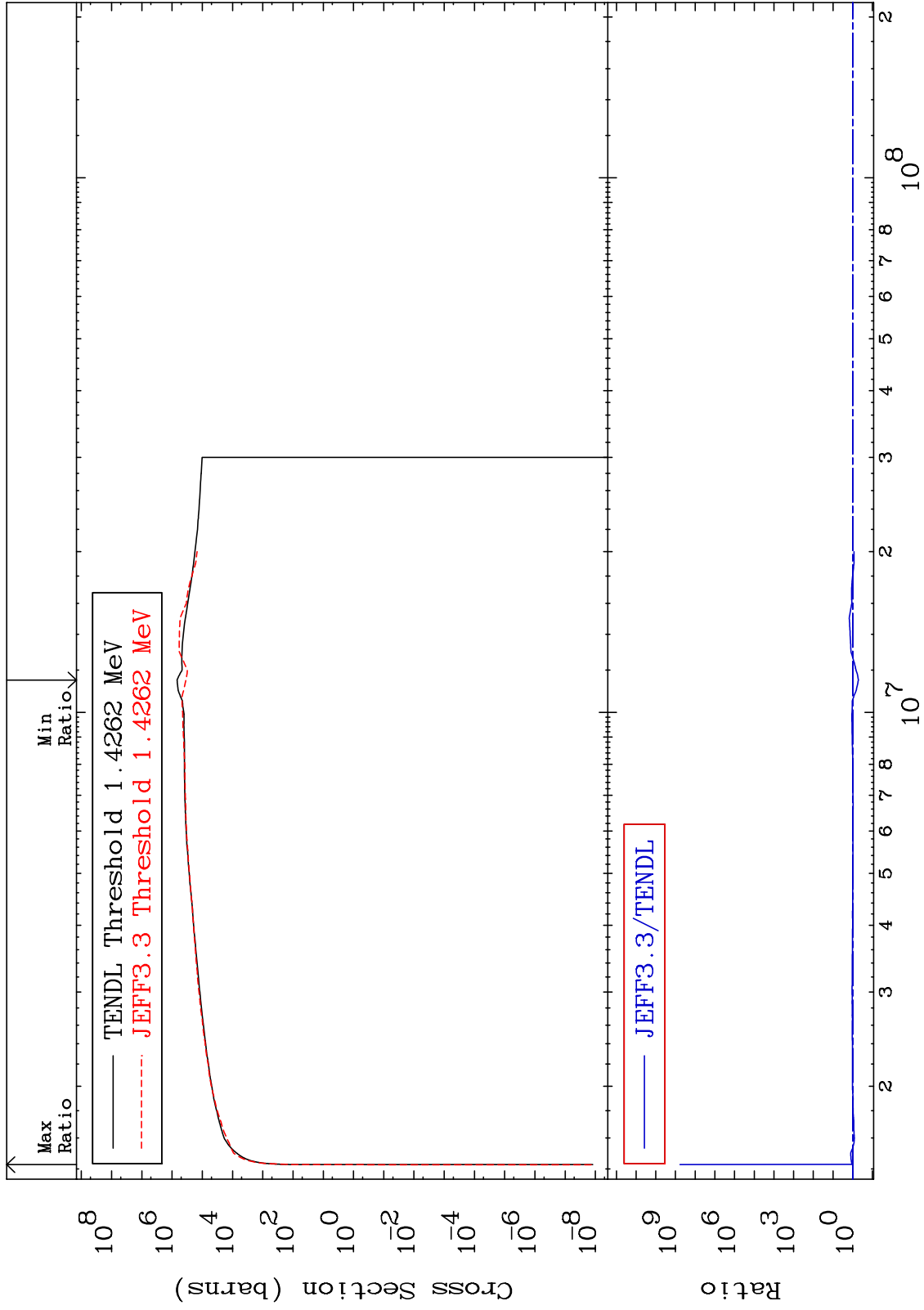
12-Mg-24
-17.85 To 9999. %



MAT 1225

Kerma inelastic (mt51-91)
Cross Section

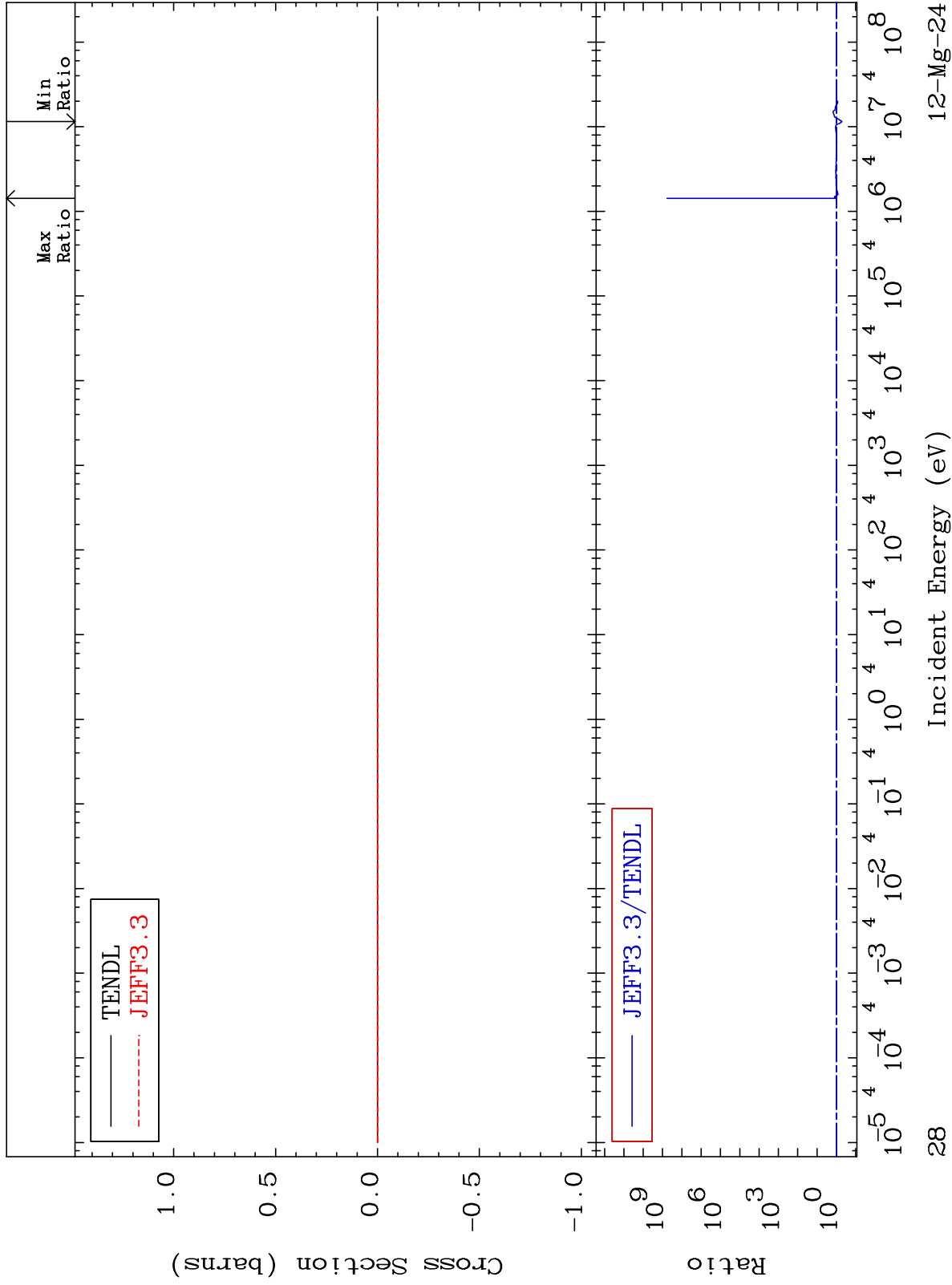
12-Mg-24
-48.83 To 9999. %



MAT 1225

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

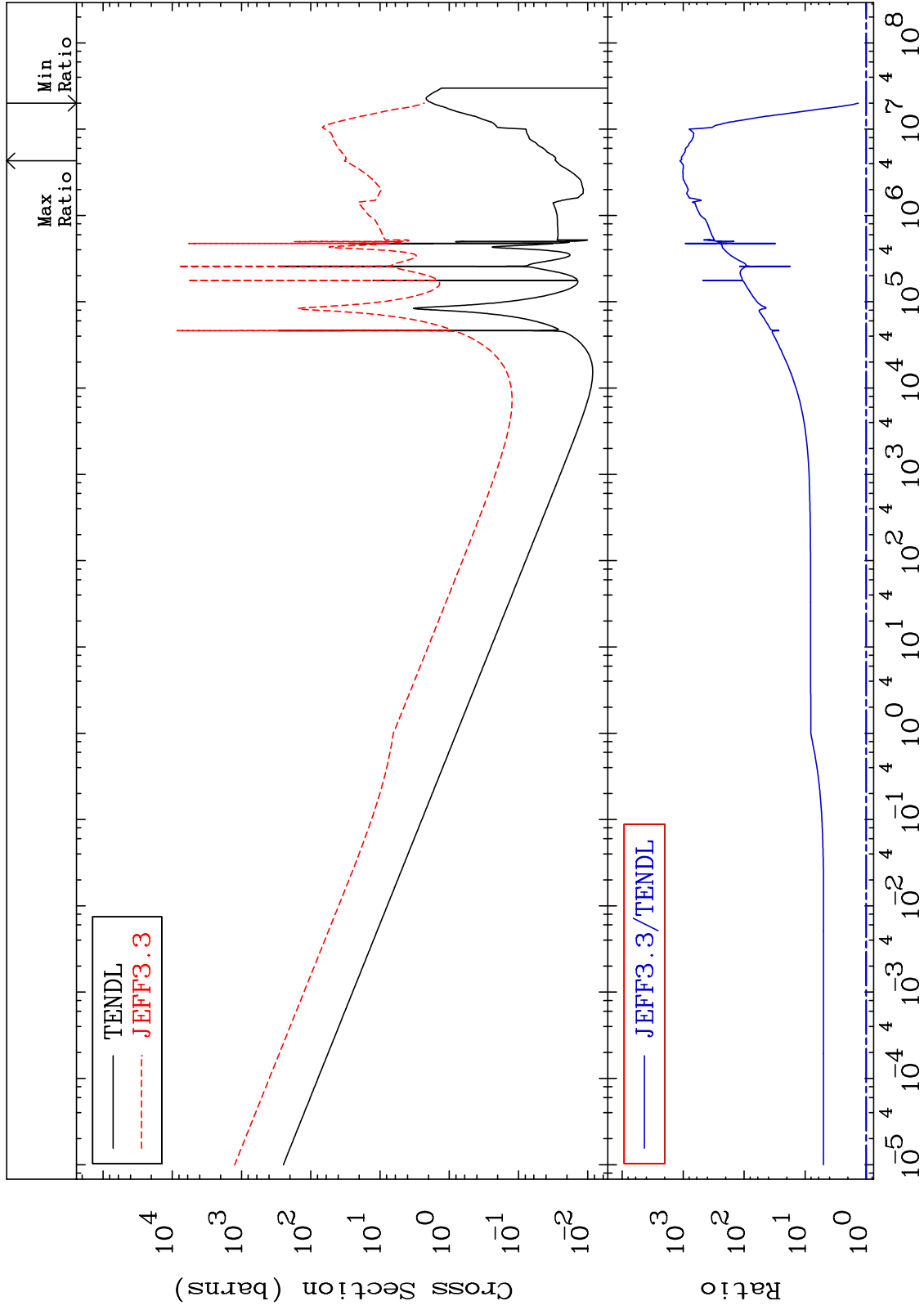
12-Mg-24
-48.83 To 9999. %



MAT 1225

Kerma capture (mt102)
Cross Section

12-Mg-24
34.49 To 9999. %



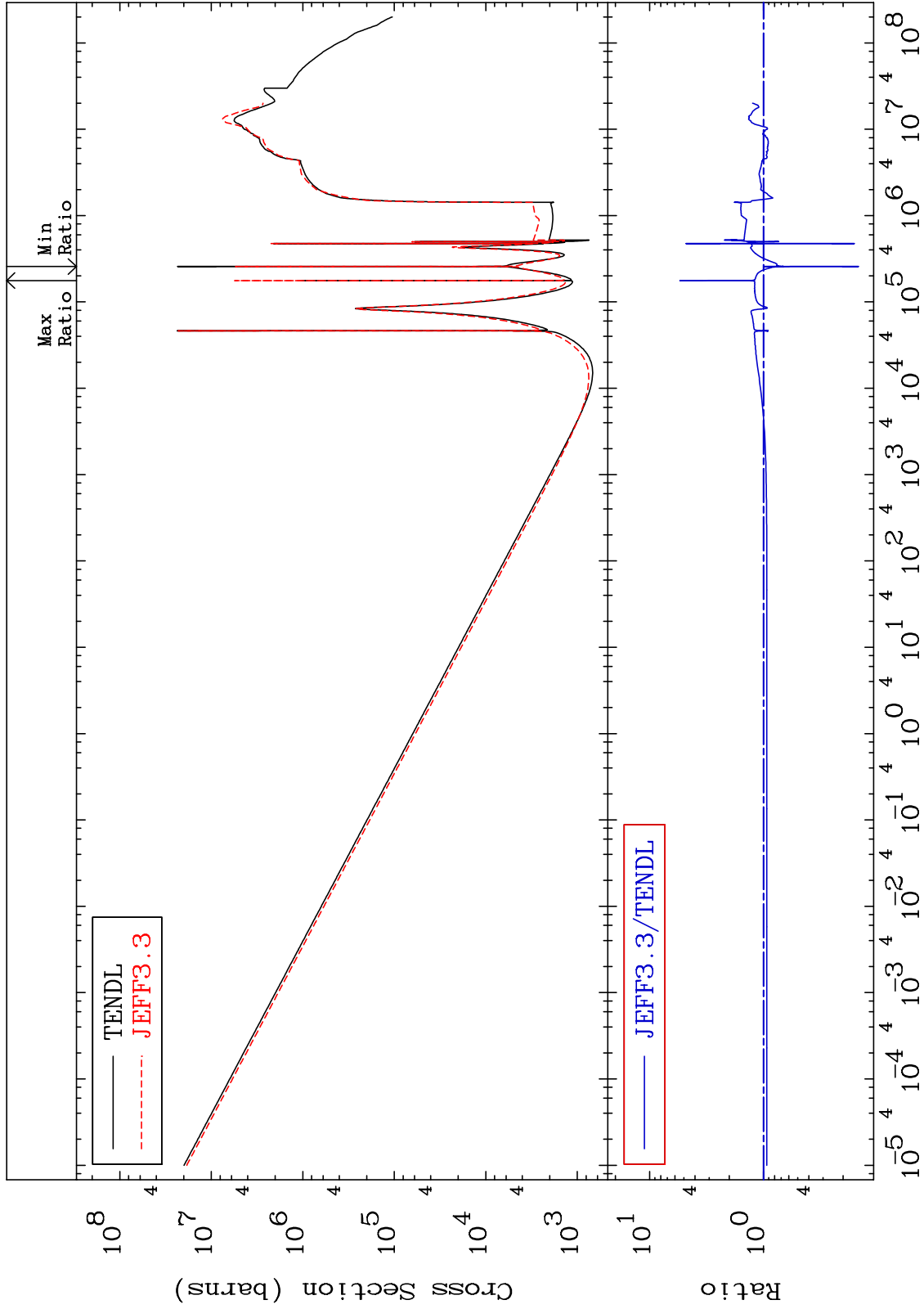
— TENDL
- - - JEFF3.3

— JEFF3.3/TENDL

MAT 1225

Total photon (eV-barns)
Cross Section

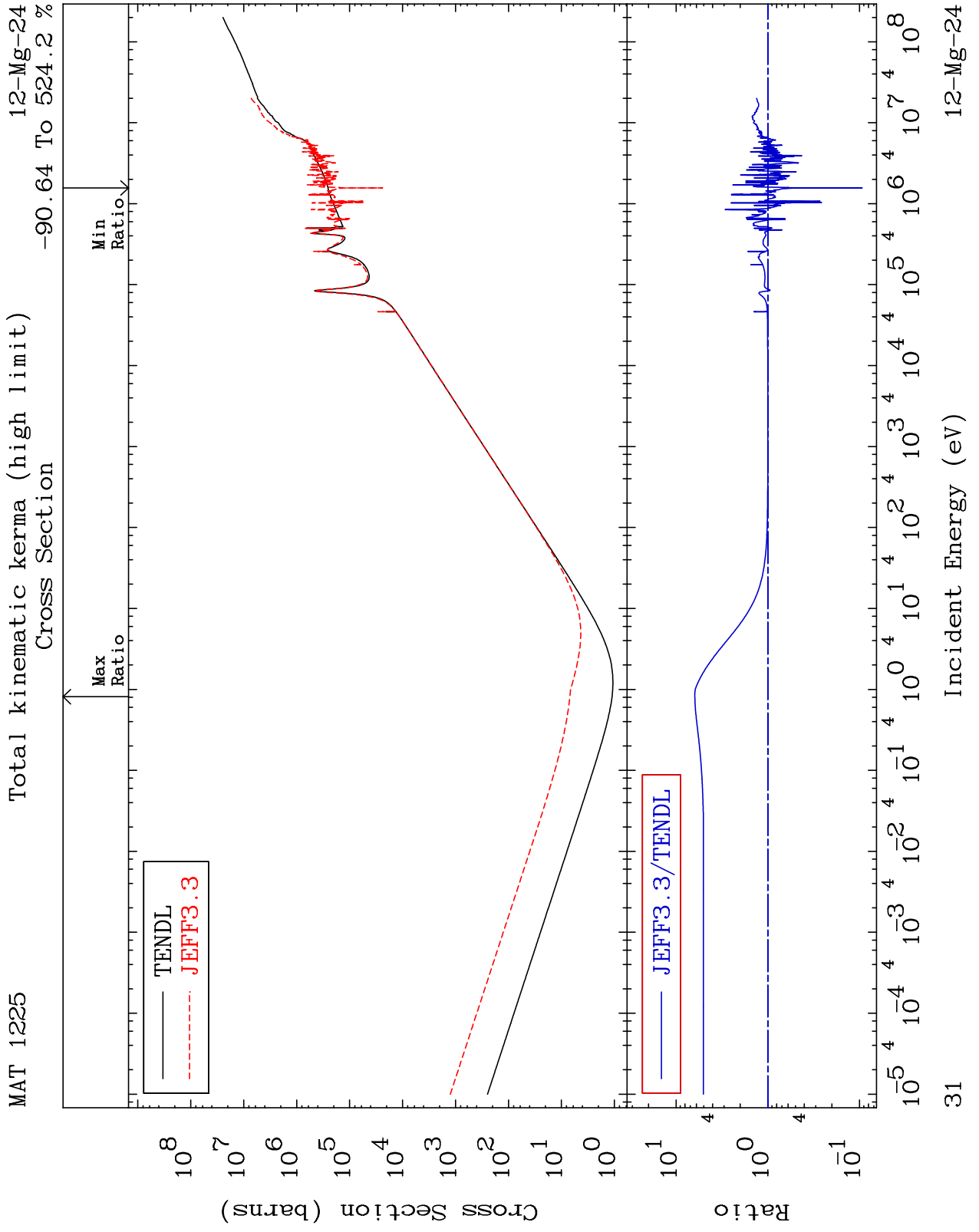
12-Mg-24
-85.32 To 440.9 %



30

Incident Energy (eV)

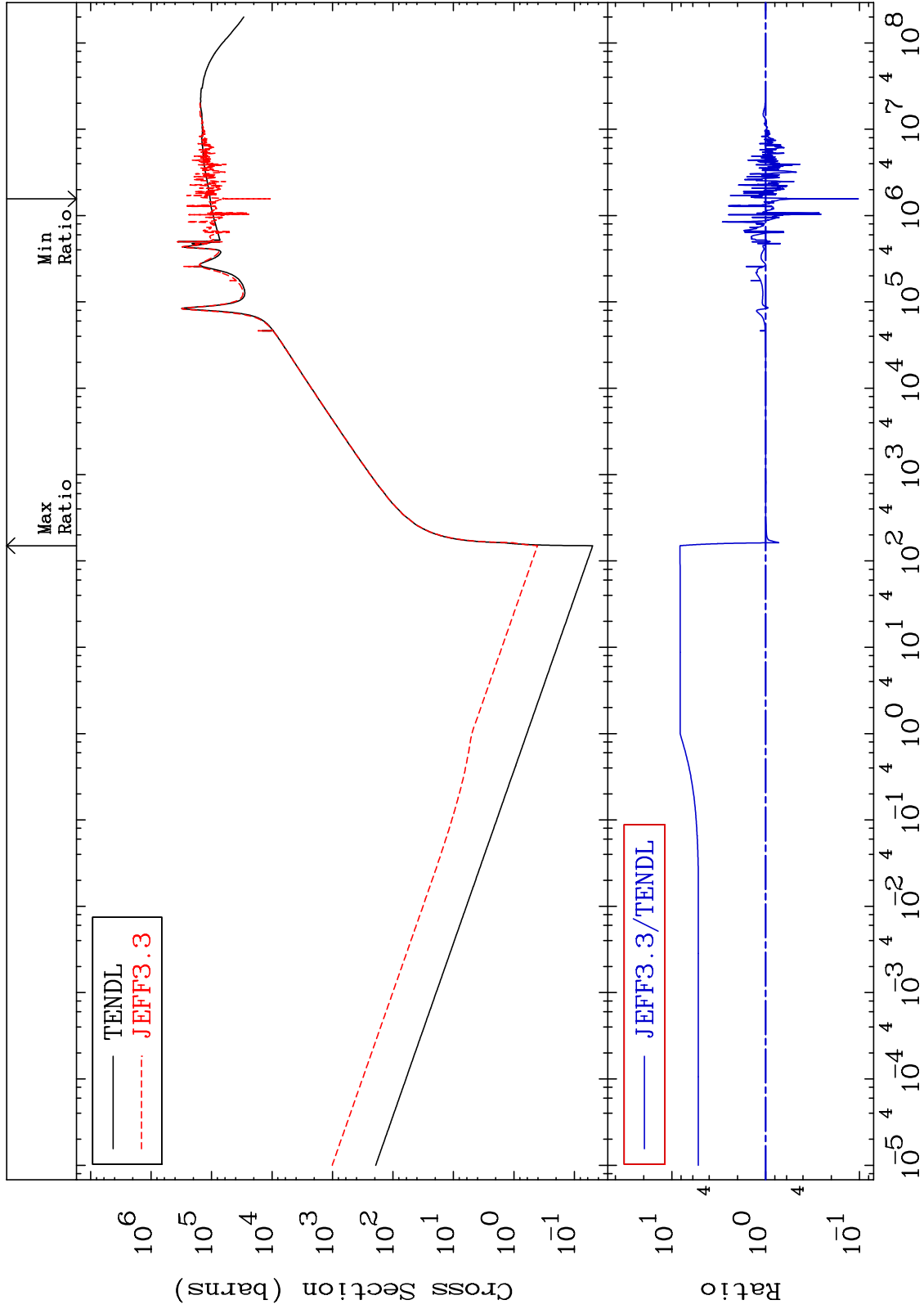
12-Mg-24



MAT 1225

Dpa total (eV-barns)
Cross Section

12-Mg-24
-89.72 To 719.4 %



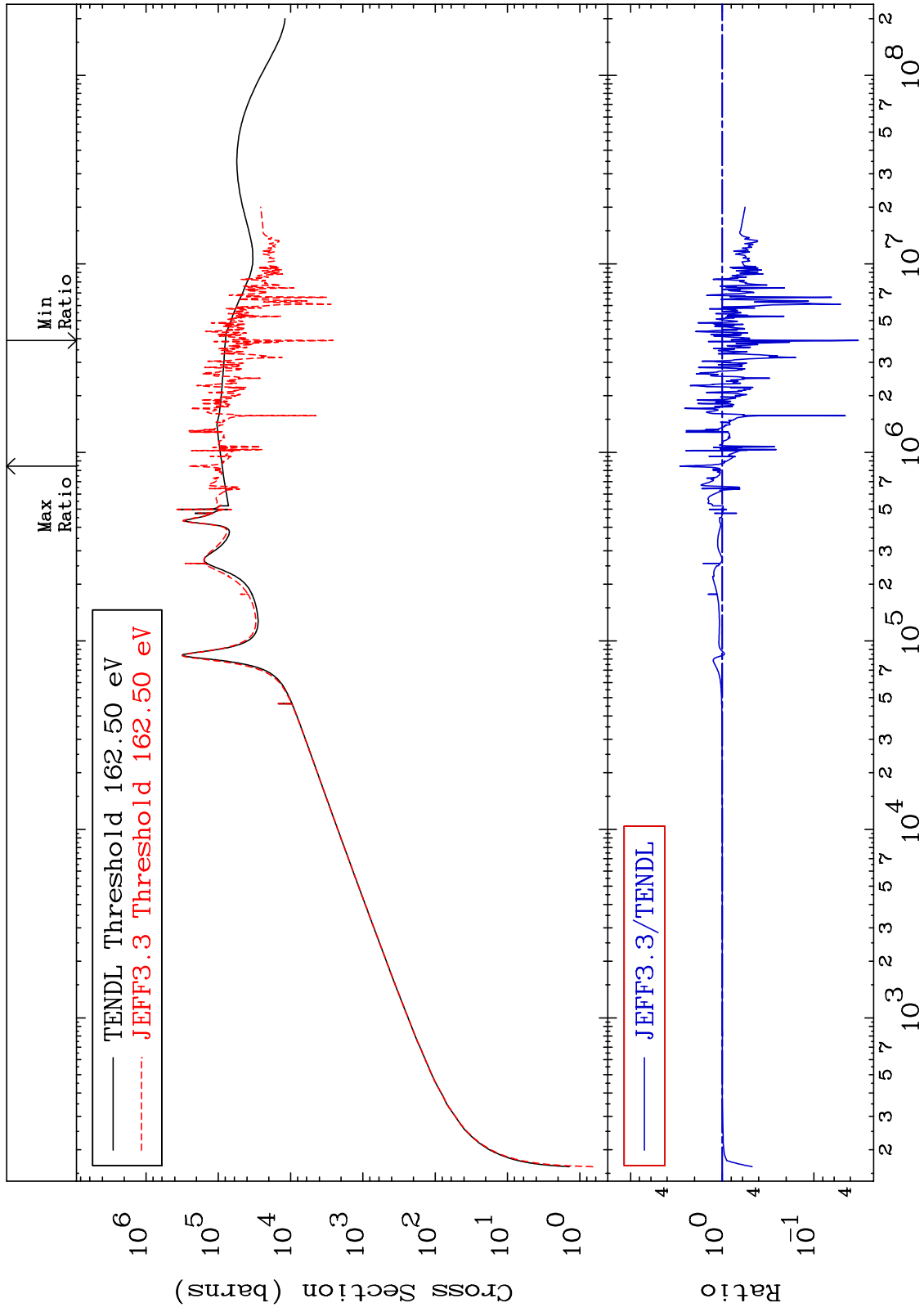
32

12-Mg-24

MAT 1225

Dpa elastic (mt2)
Cross Section

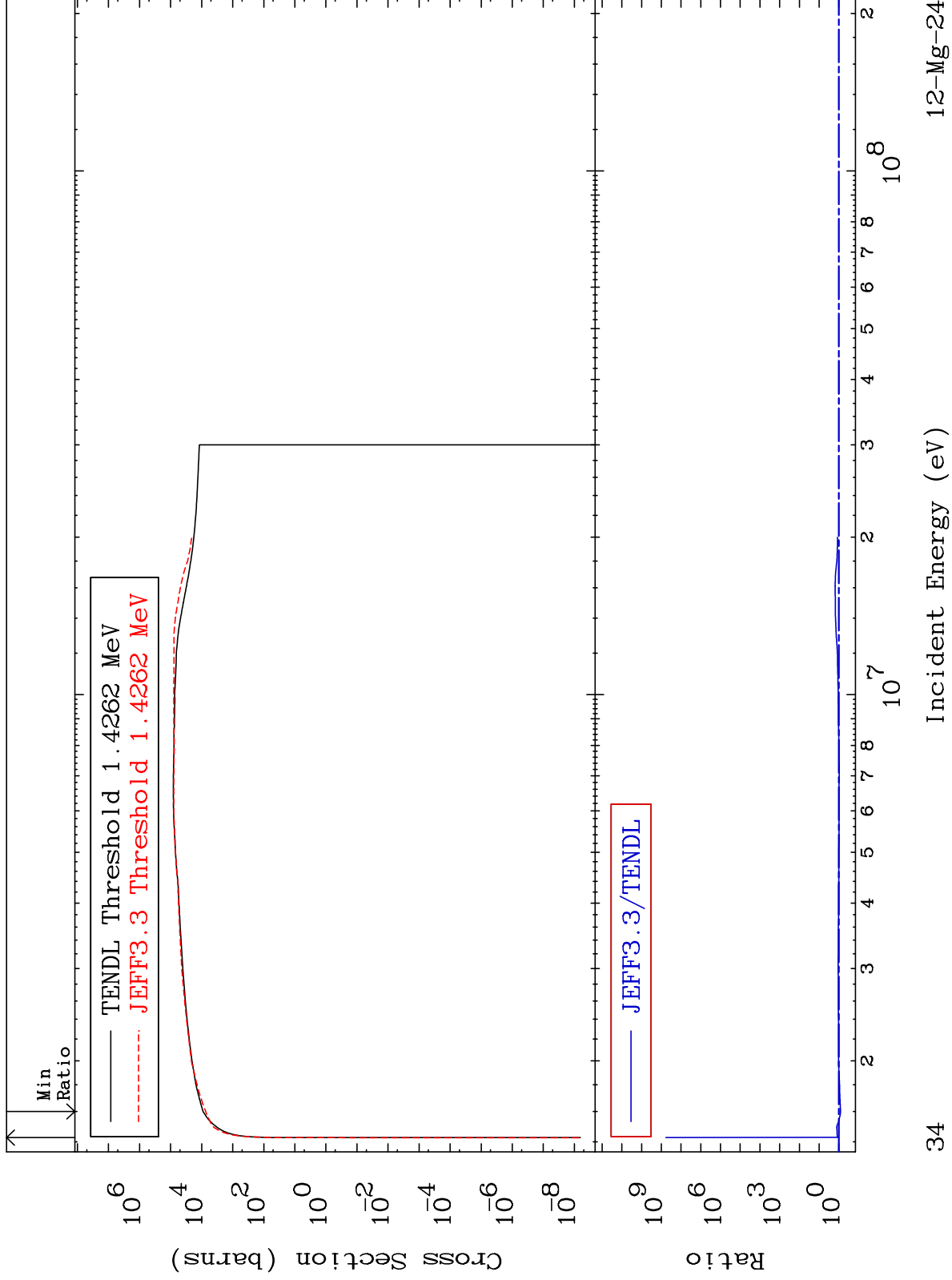
12-Mg-24
-96.74 To 188.9 %



MAT 1225

Dpa inelastic (mt51-91)
Cross Section

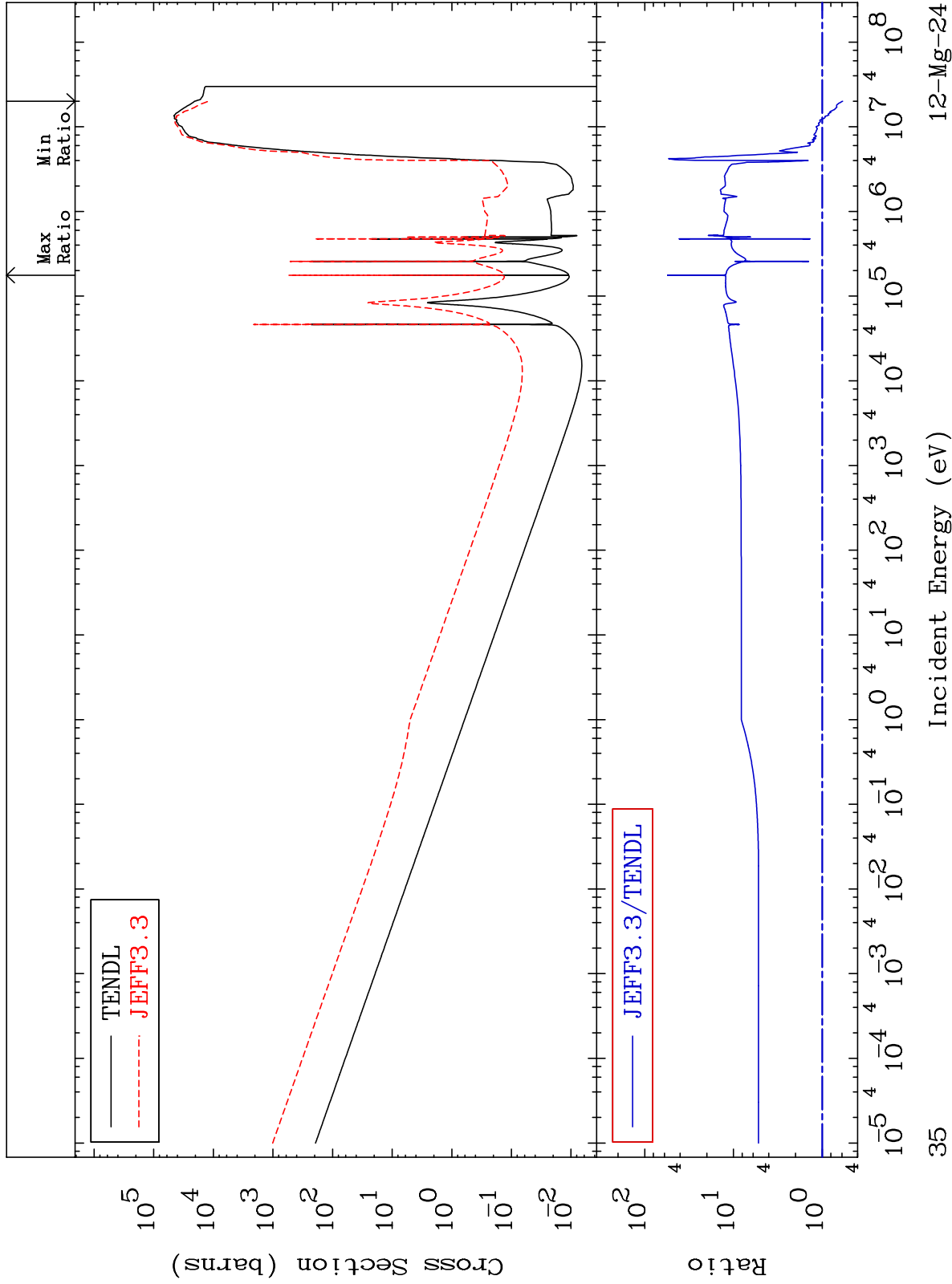
12-Mg-24
-17.79 To 9999. %



MAT 1225

Dpa disappearance (mt102 -120)
Cross Section

12-Mg-24
-41.14 To 5442. %



35

12-Mg-24