

Program Complot
(Version 2021-1)

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

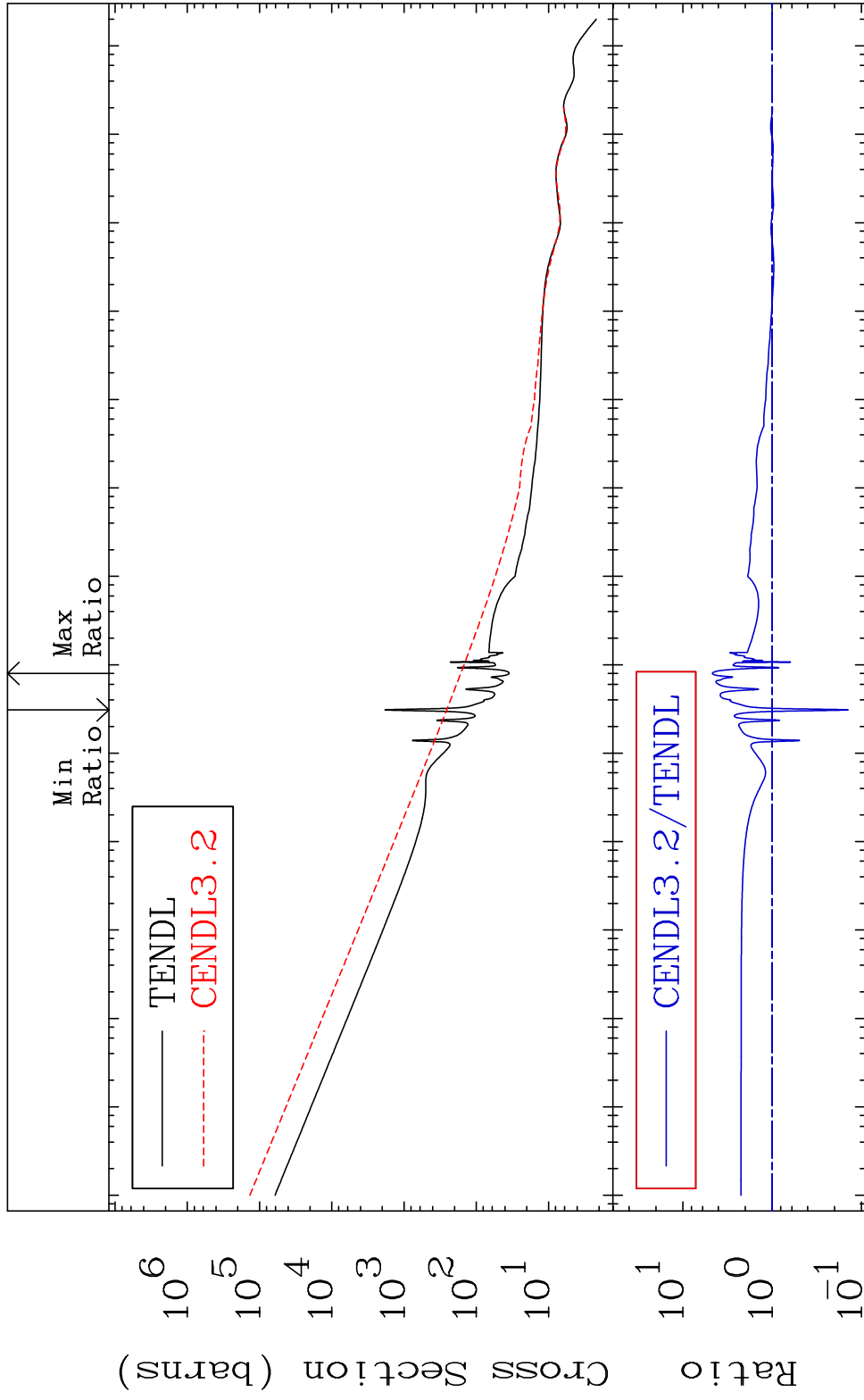
Press Mouse Button to Start

MAT 9431

Total

94-Pu-237

Cross Section -85.97 To 367.1 %



1

Incident Energy (eV)

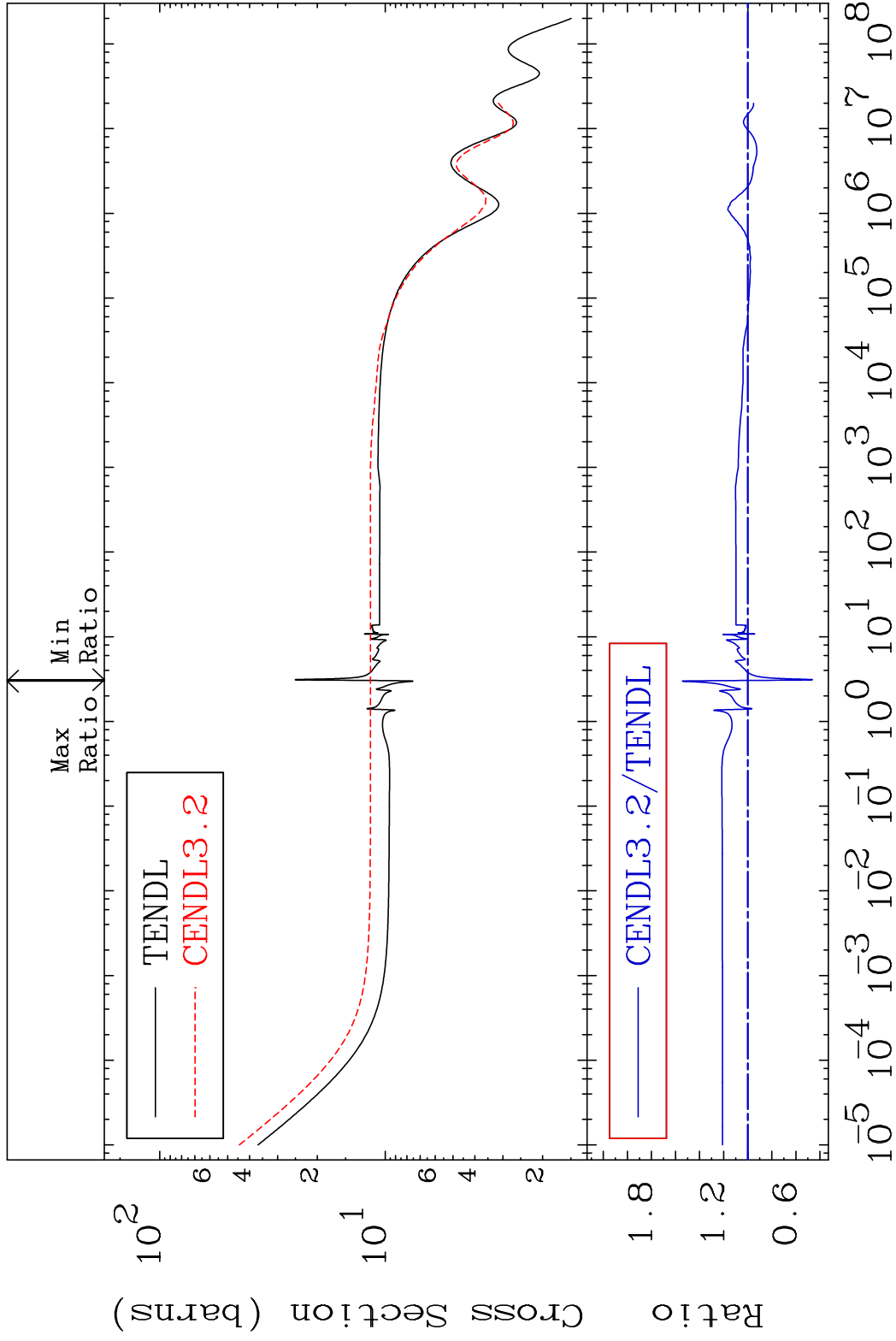
94-Pu-237

MAT 9431

Elastic

94-Pu-237

Cross Section -53.86 To 54.33 %

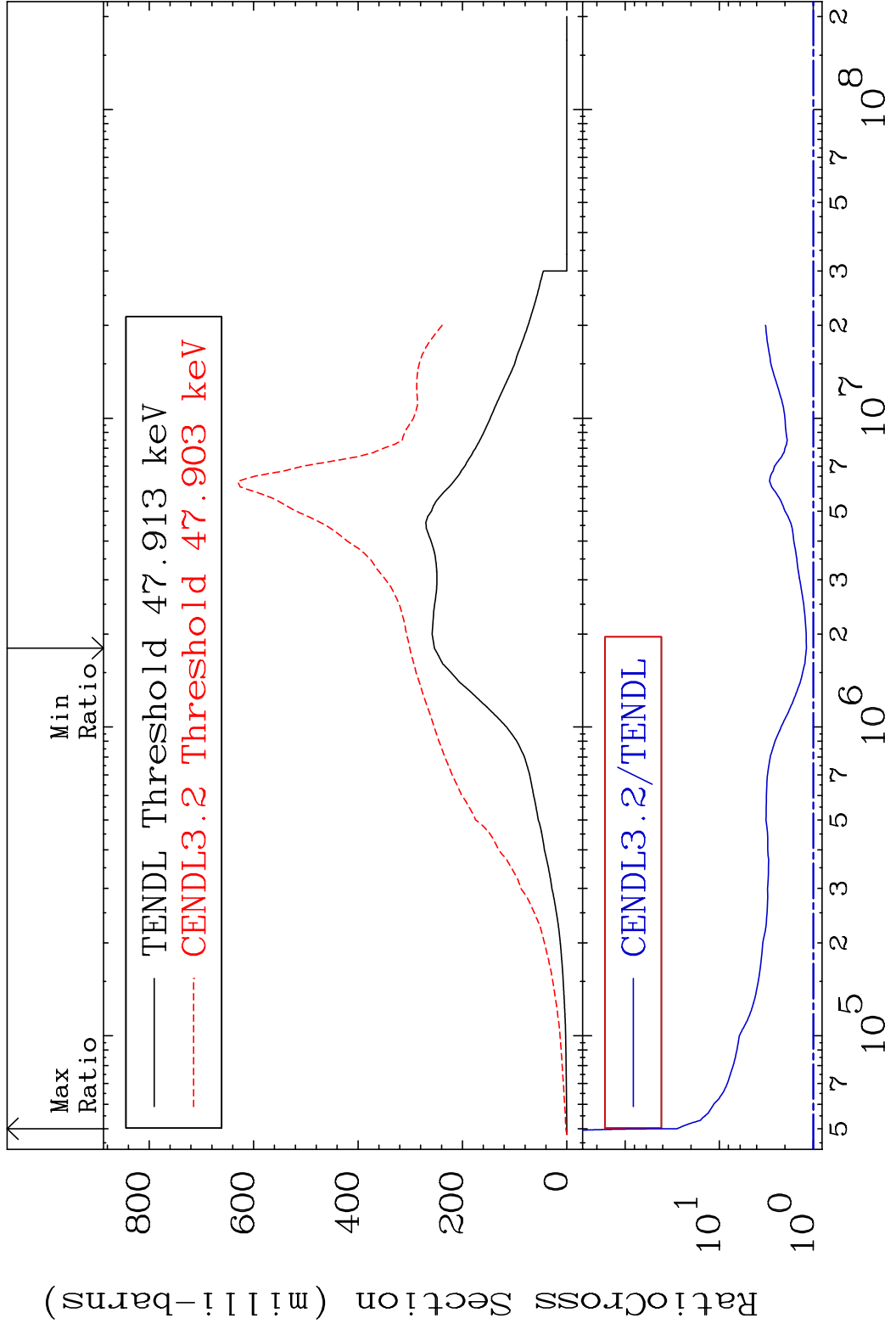


2

Incident Energy (eV)

94-Pu-237

MAT 9431 Inelastic 94-Pu-237
 Cross Section 18.55 To 2704. %

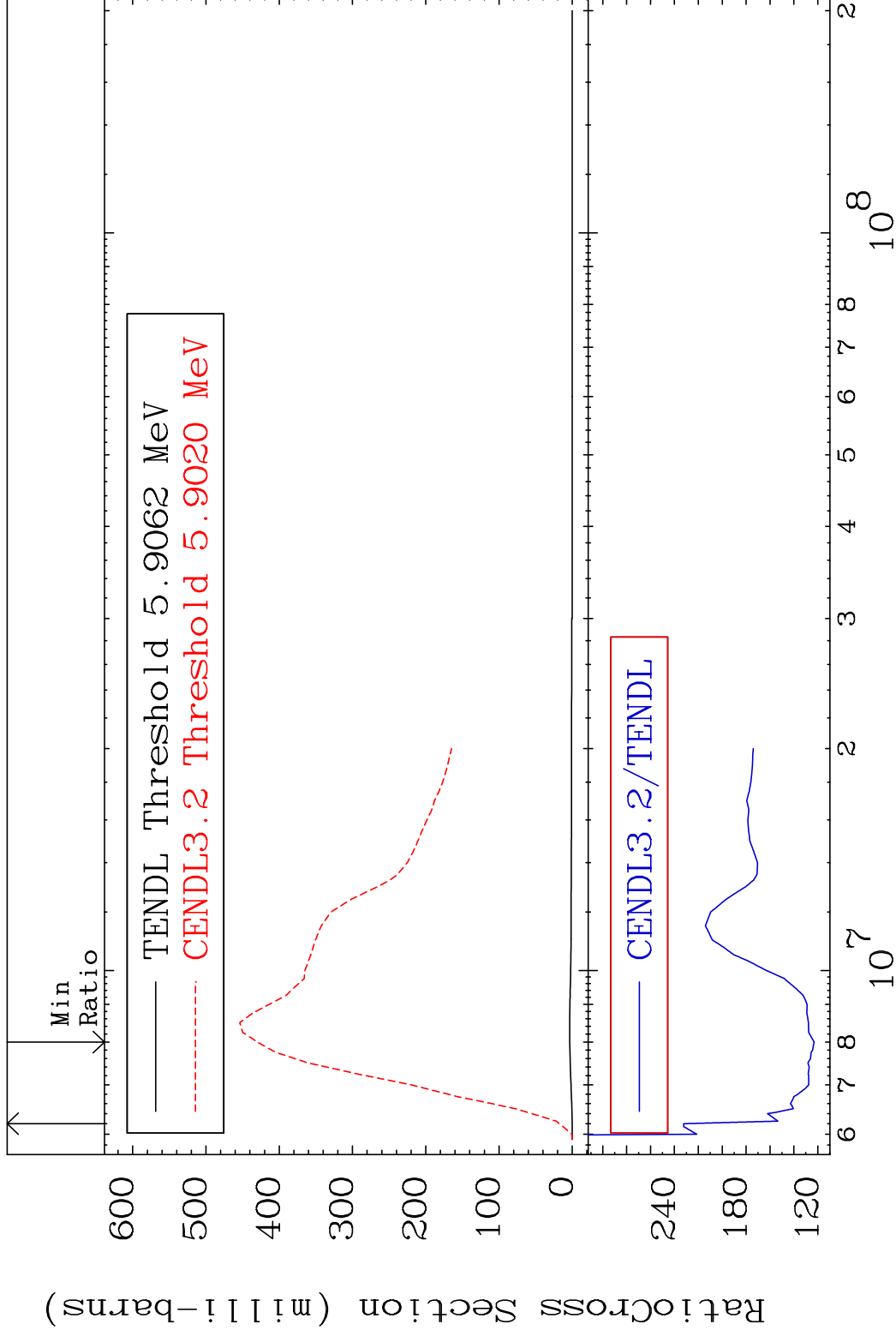


MAT 9431

(n,2n)

94-Pu-237

Cross Section 9999. To 9999. %



4

Incident Energy (eV)

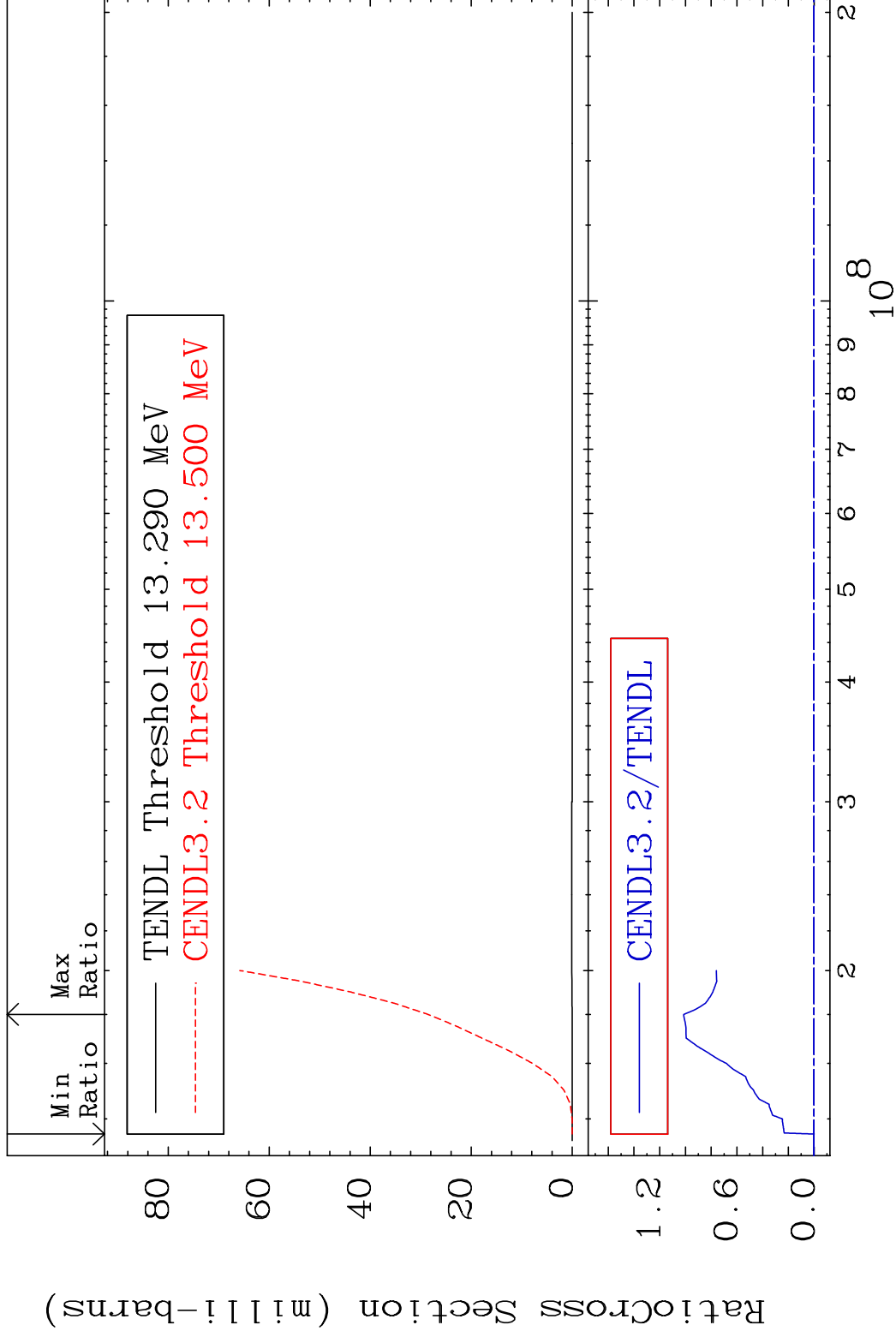
94-Pu-237

MAT 9431

(n,3n)

94-Pu-237

Cross Section -100.0 To 9999. %



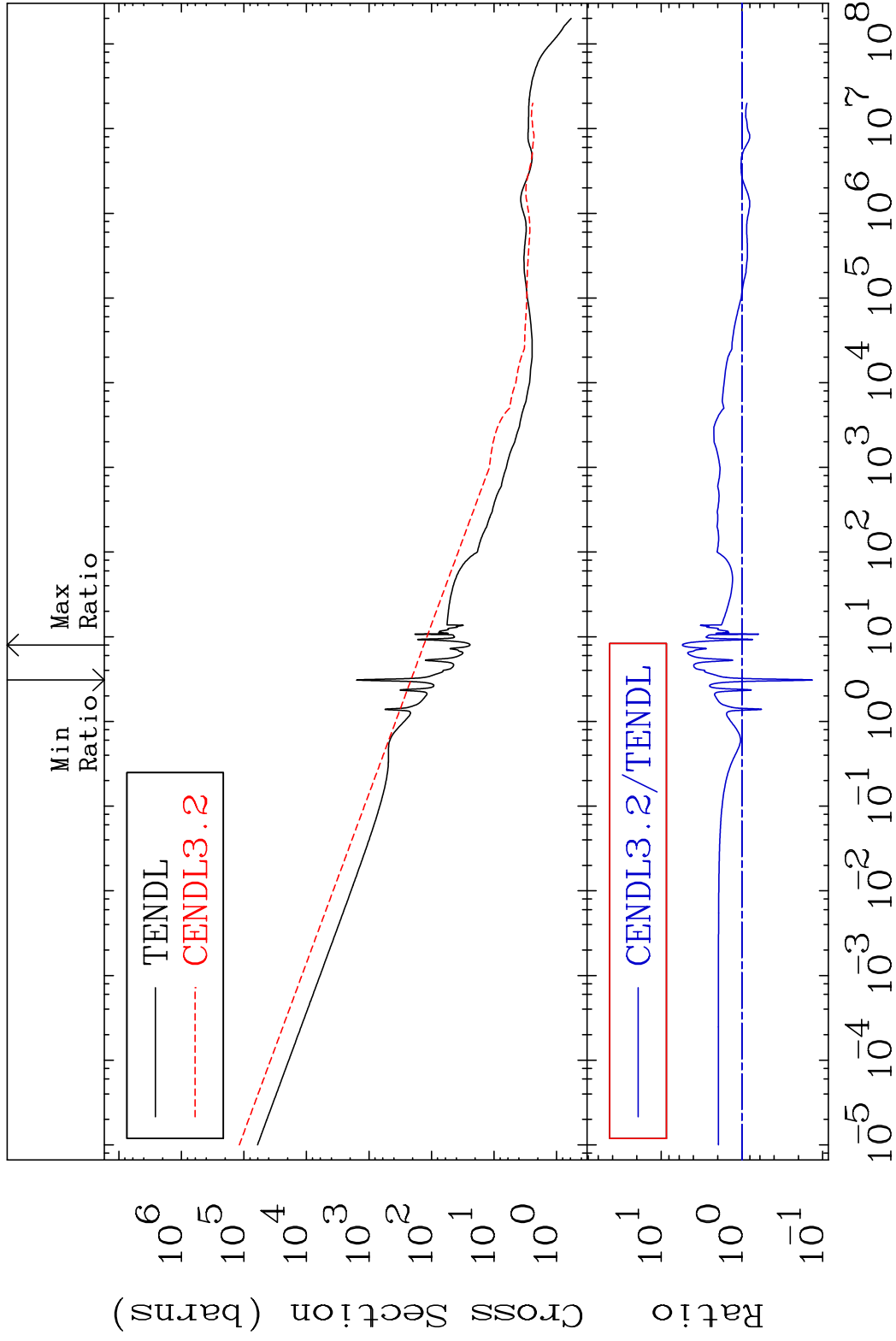
5

Incident Energy (eV)

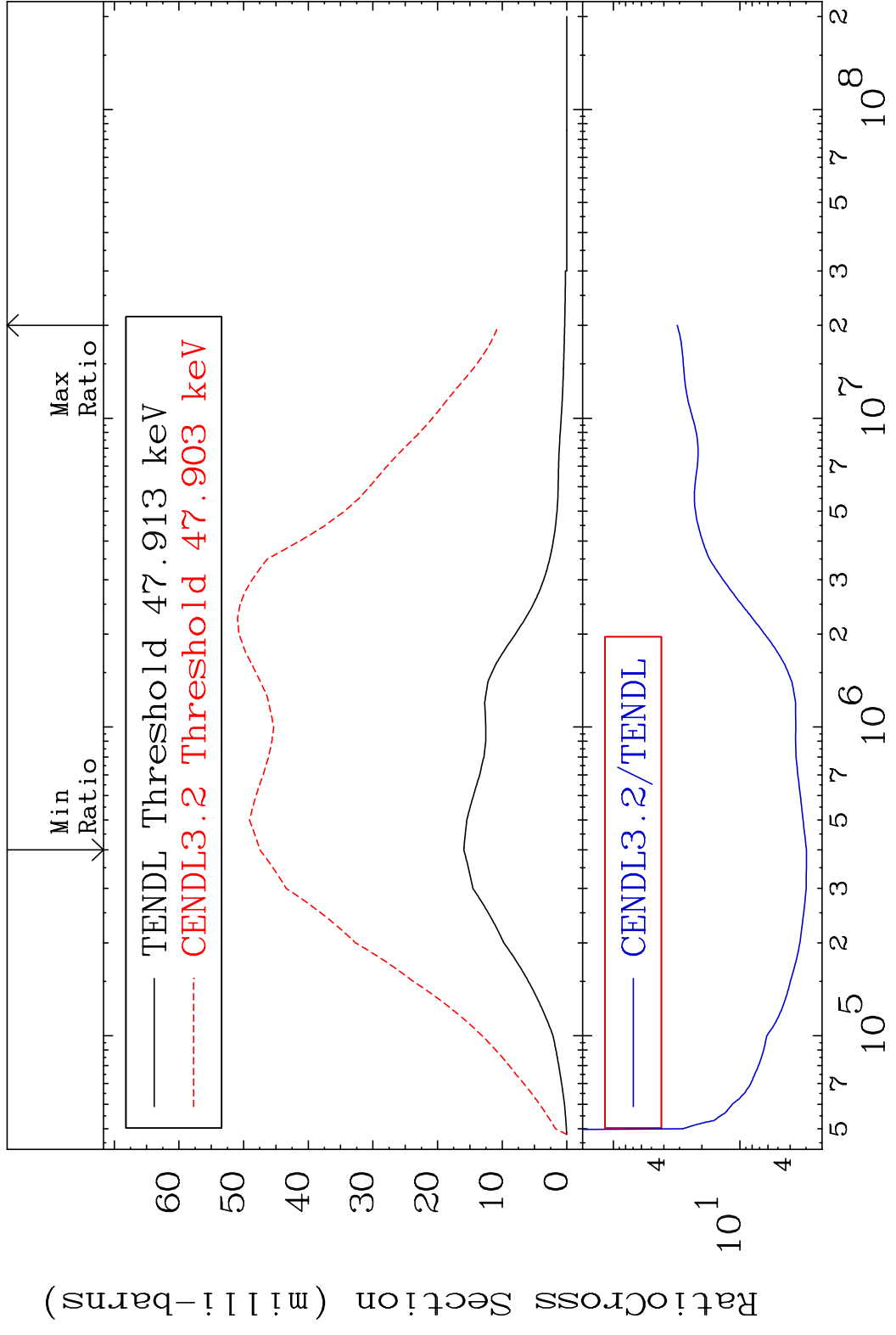
94-Pu-237

MAT 9431

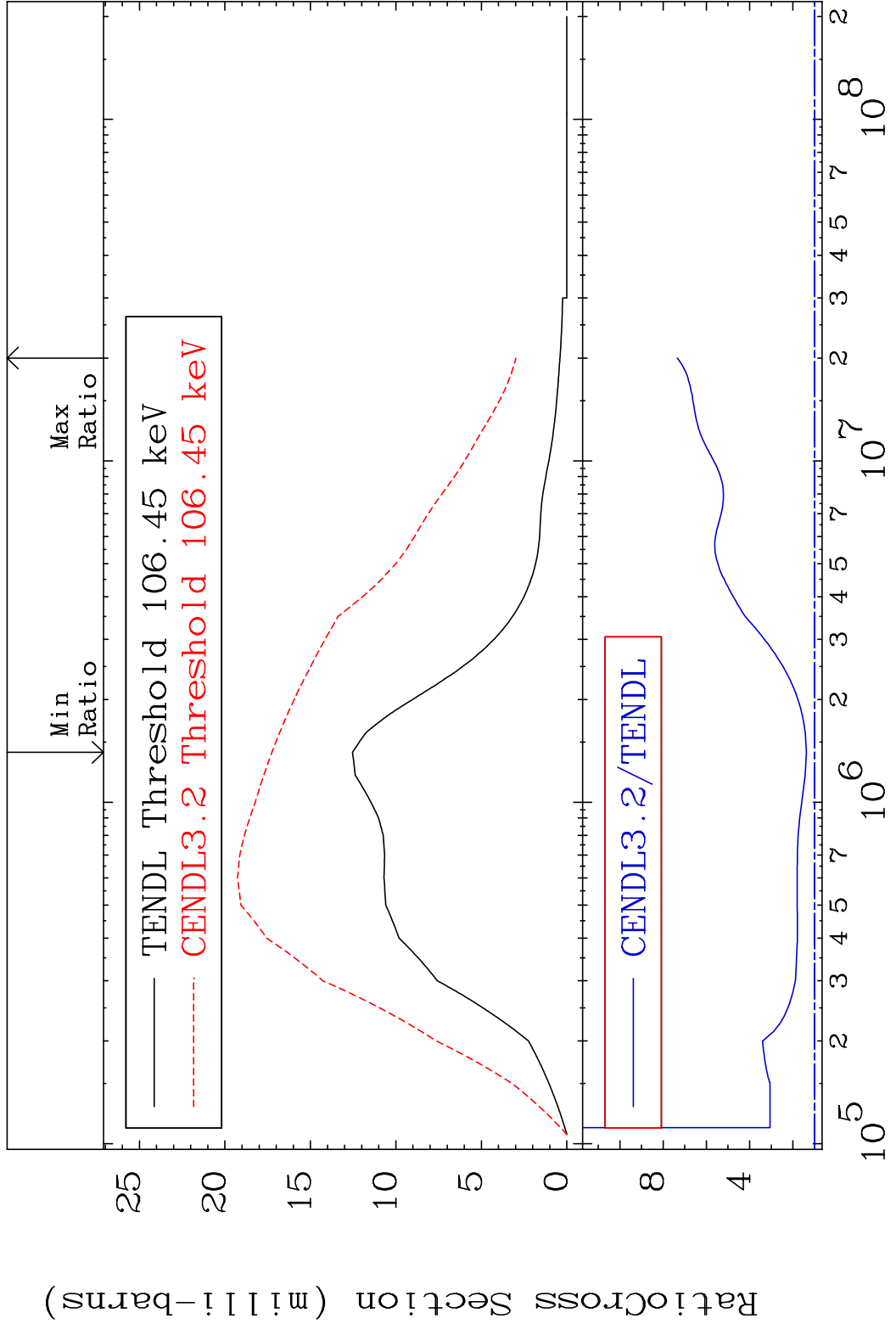
Fission Cross Section -86.64 To 446.8 %
94-Pu-237



MAT 9431 MT= 51 (n, n') Level 94-Pu-237
 Cross Section 198.0 To 3033. %

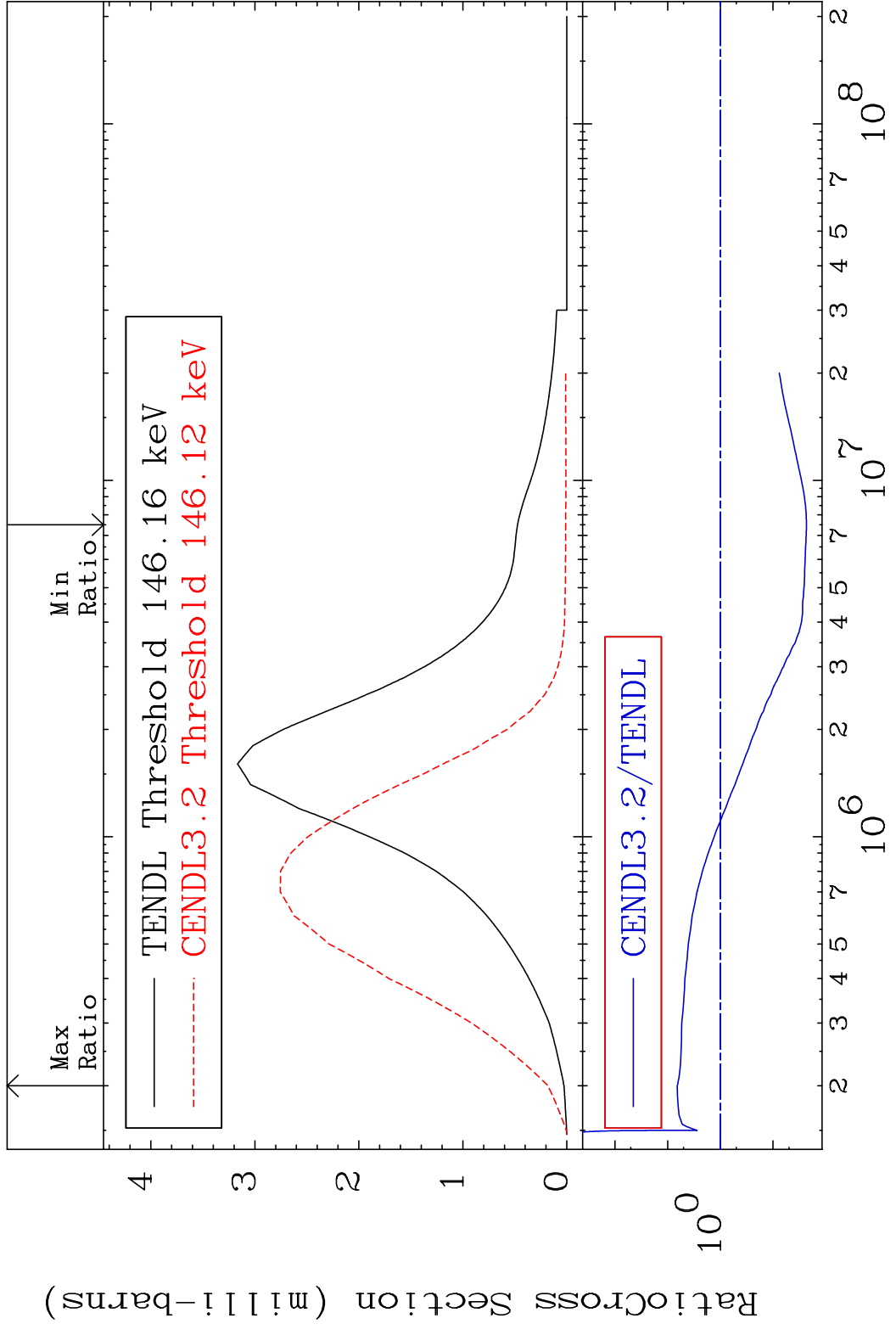


MAT 9431 MT= 52 (n, n') Level 94-Pu-237
 Cross Section 37.62 To 635.0 %

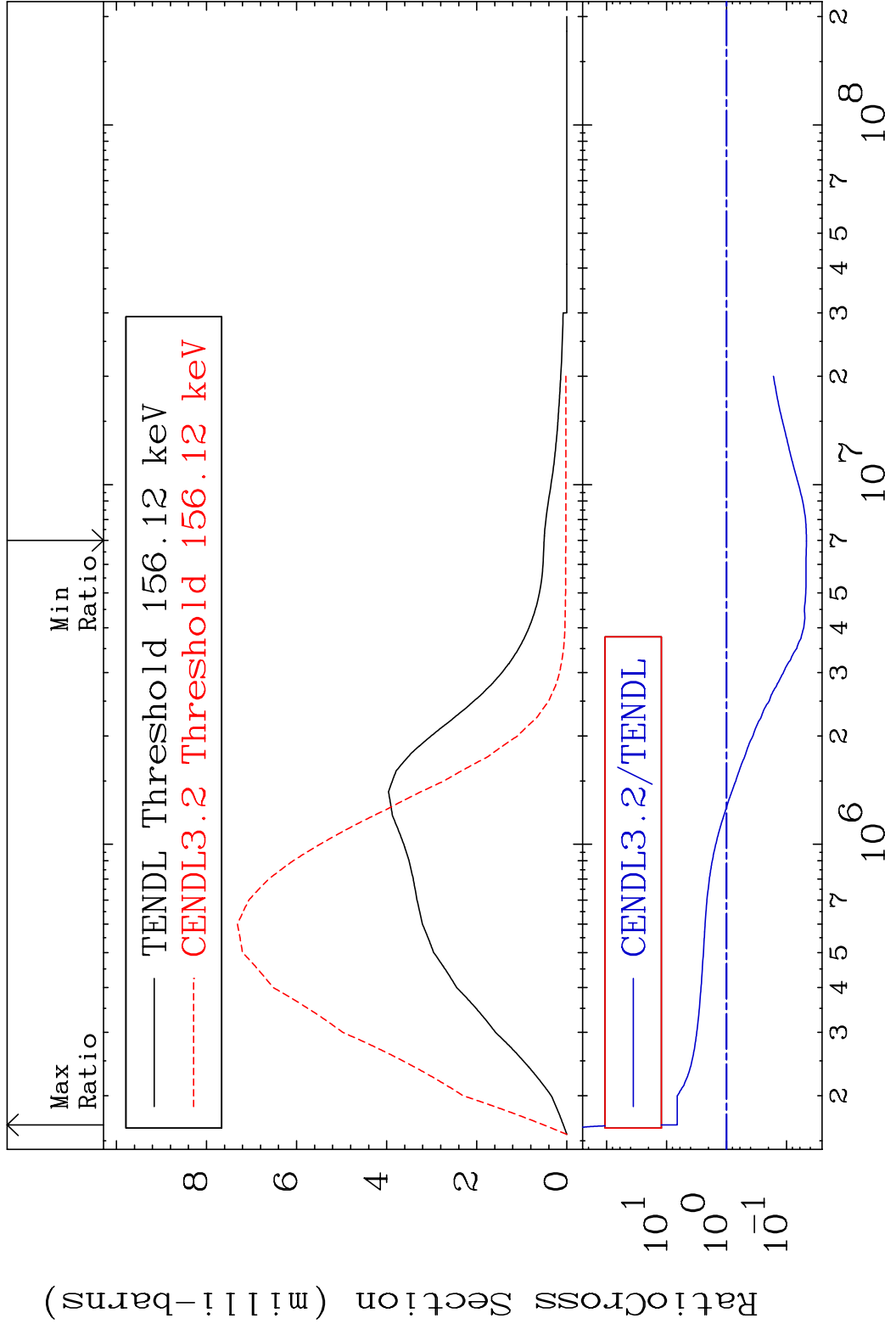


8 8 Incident Energy (eV) 94-Pu-237

MAT 9431 MT= 53 (n, n') Level 94-Pu-237
 Cross Section -97.67 To 559.7 %

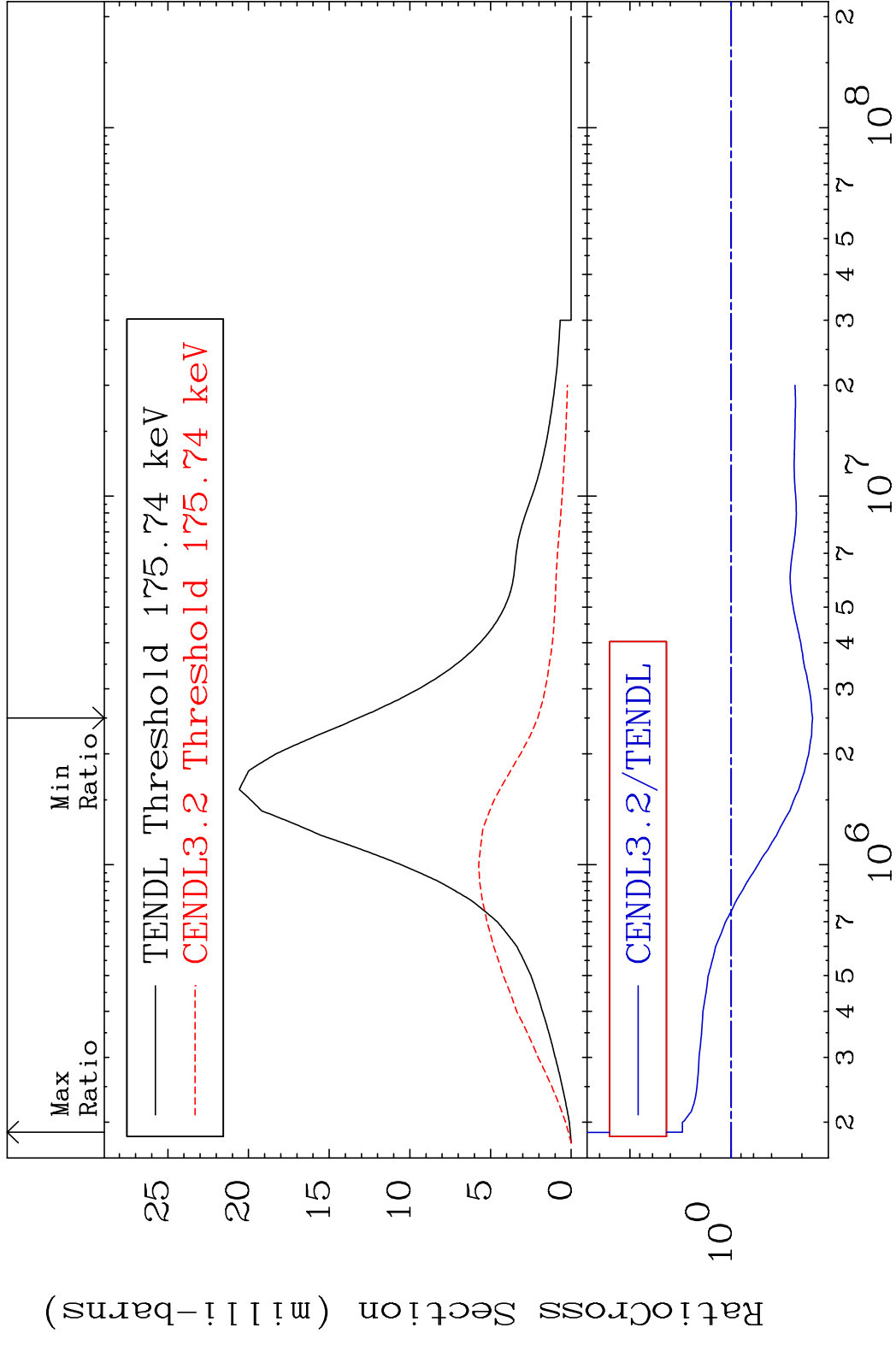


MAT 9431 MT= 54 (n, n') Level 94-Pu-237
 Cross Section -95.33 To 566.4 %

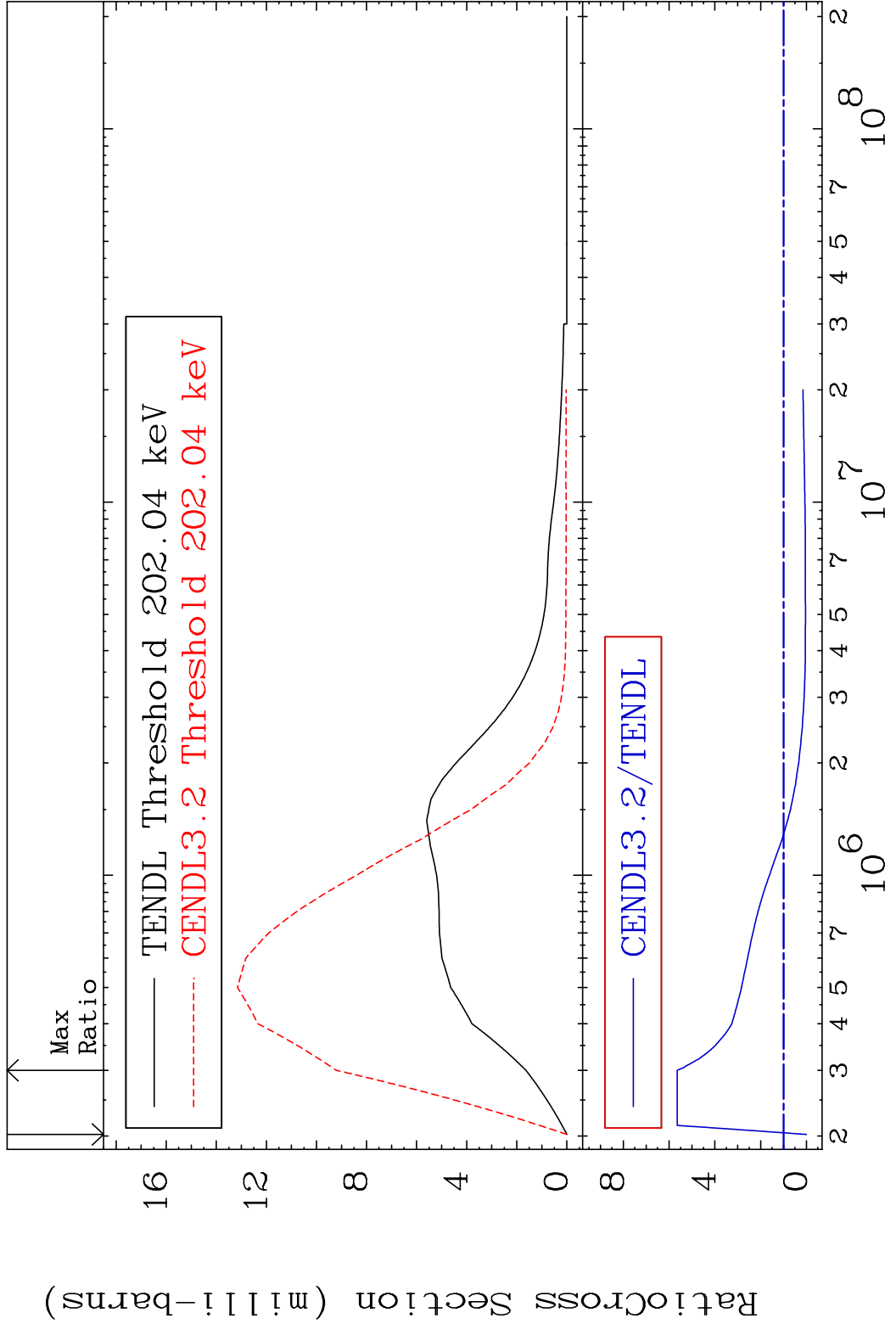


10 Incident Energy (eV) 94-Pu-237

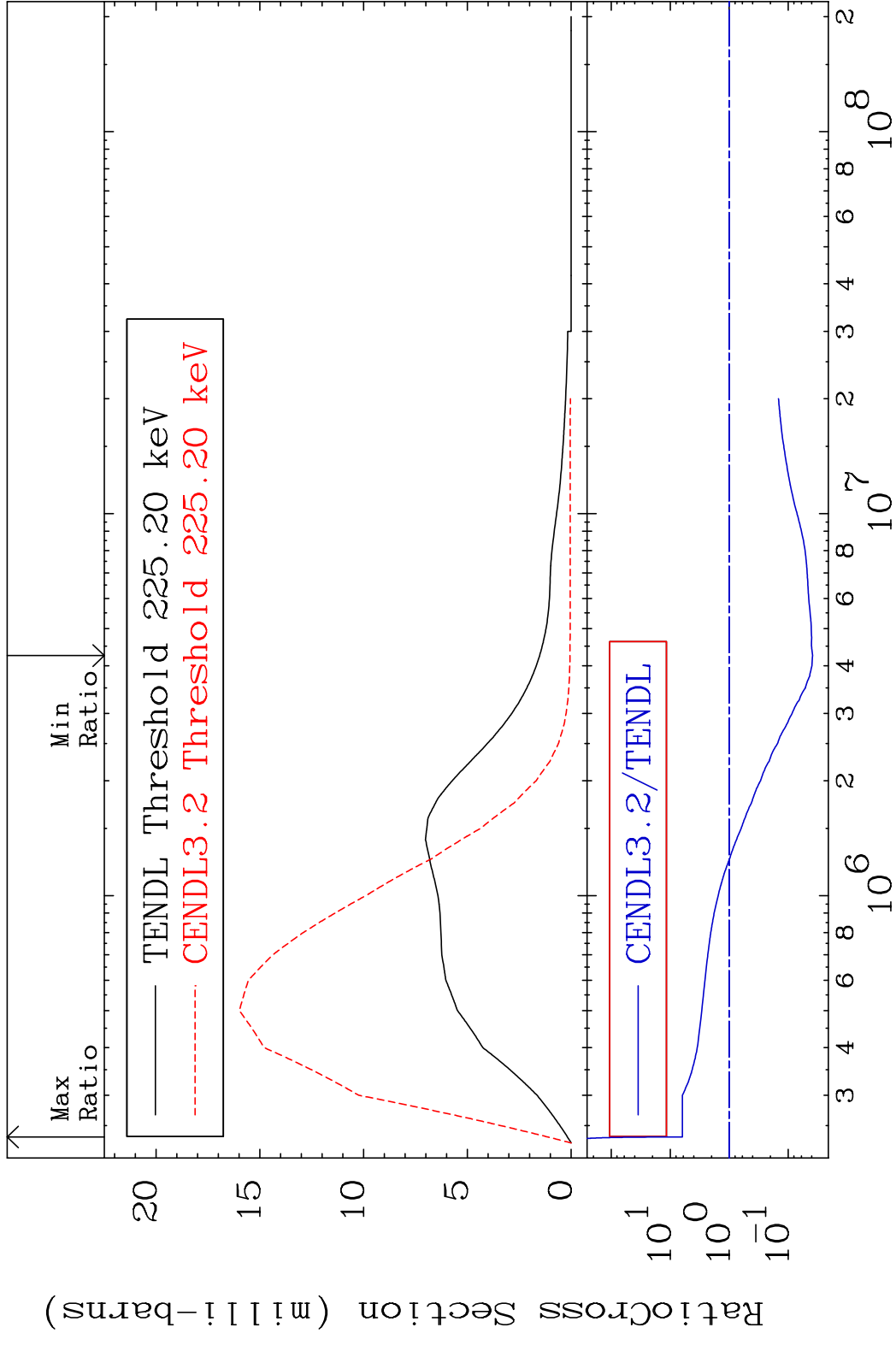
MAT 9431 MT= 55 (n,n') Level 94-Pu-237
 Cross Section -84.29 To 203.9 %



MAT 9431 MT= 56 (n,n') Level 94-Pu-237
 Cross Section -100.0 To 464.5 %



MAT 9431 MT= 57 (n,n') Level 94-Pu-237
 Cross Section -96.13 To 523.1 %

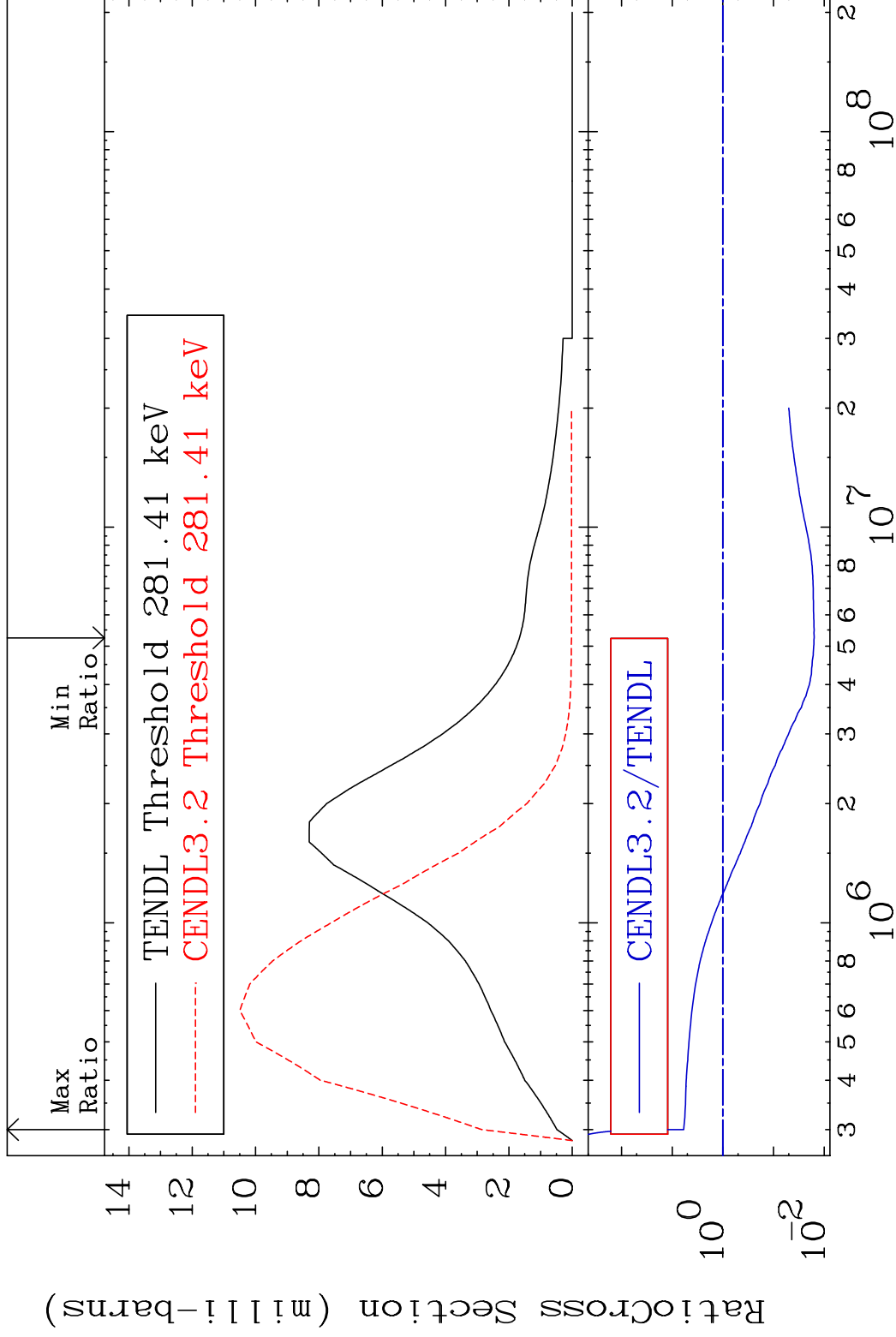


MAT 9431

MT= 59 (n,n') Level

94-Pu-237

Cross Section -98.41 To 493.2 %

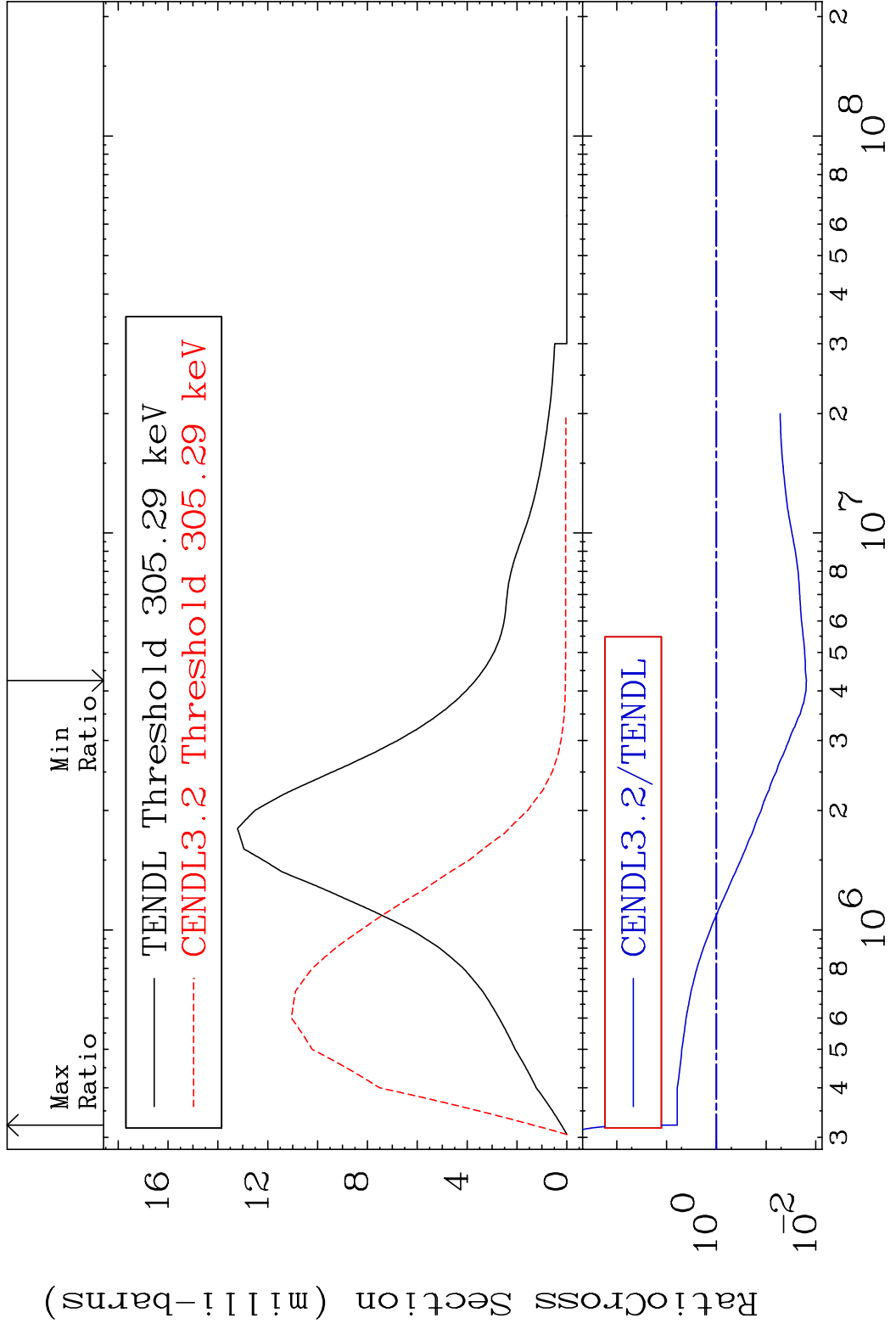


15

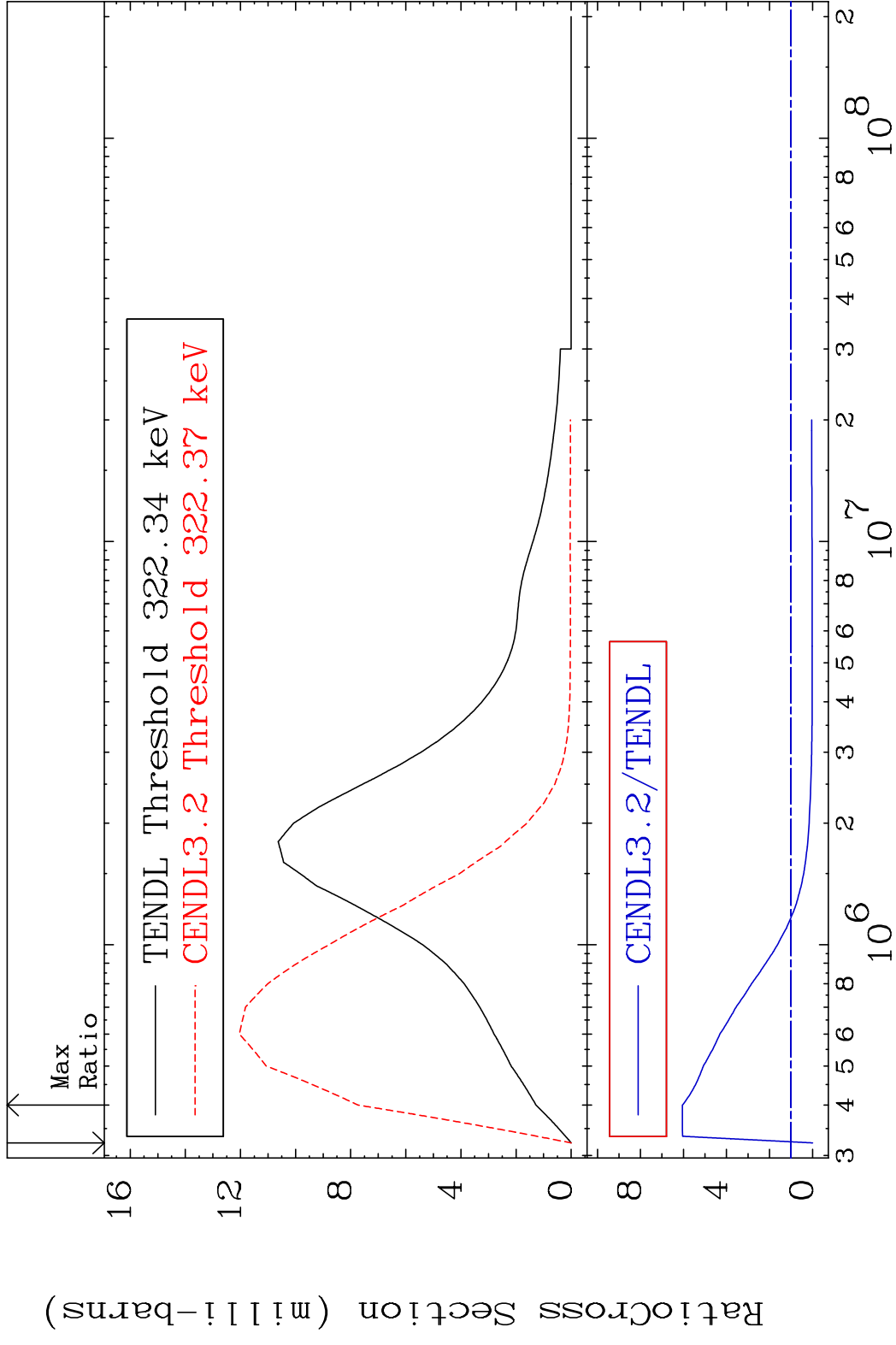
Incident Energy (eV)

94-Pu-237

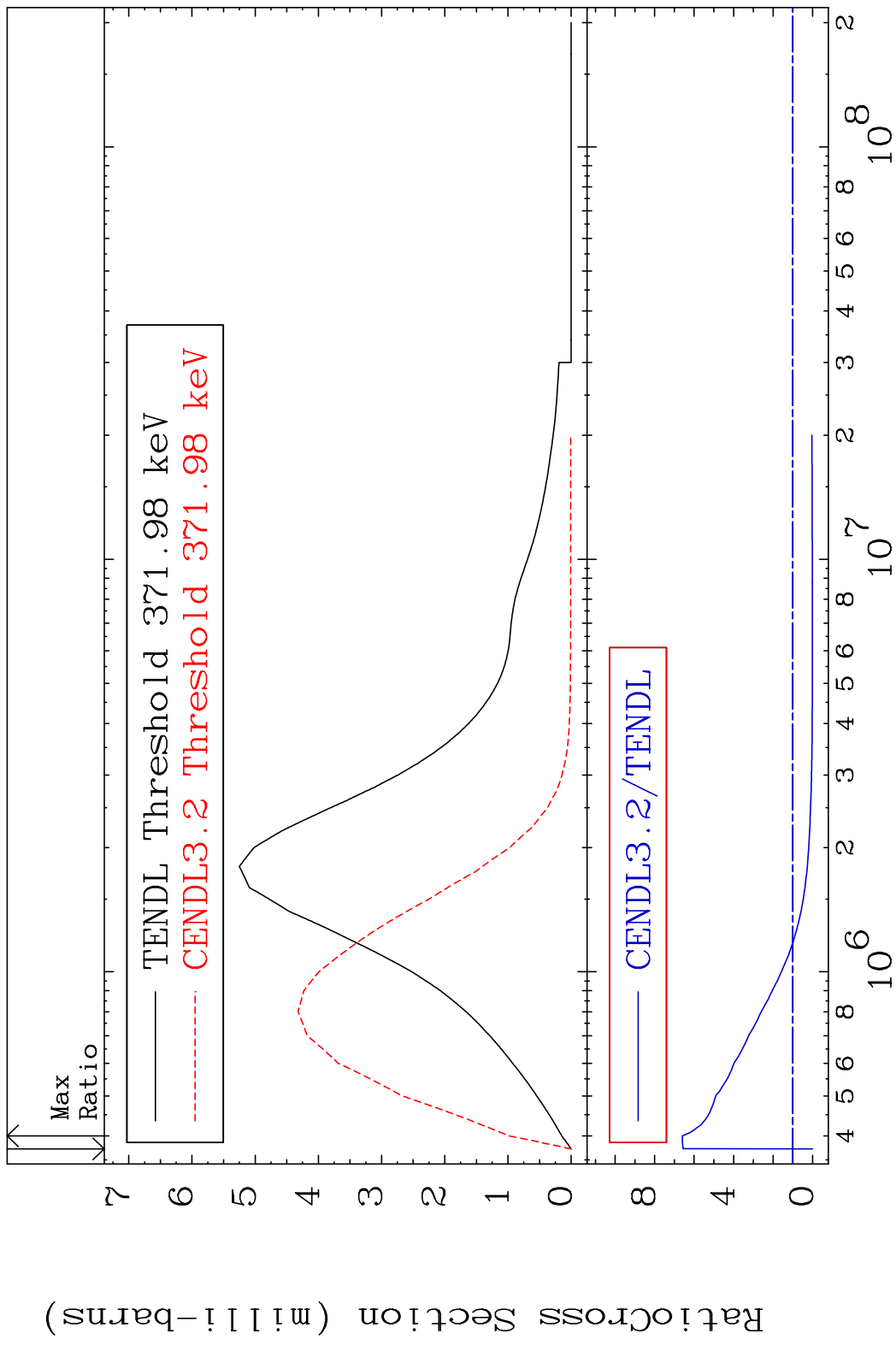
MAT 9431 MT= 60 (n, n') Level 94-Pu-237
 Cross Section -98.45 To 512.4 %



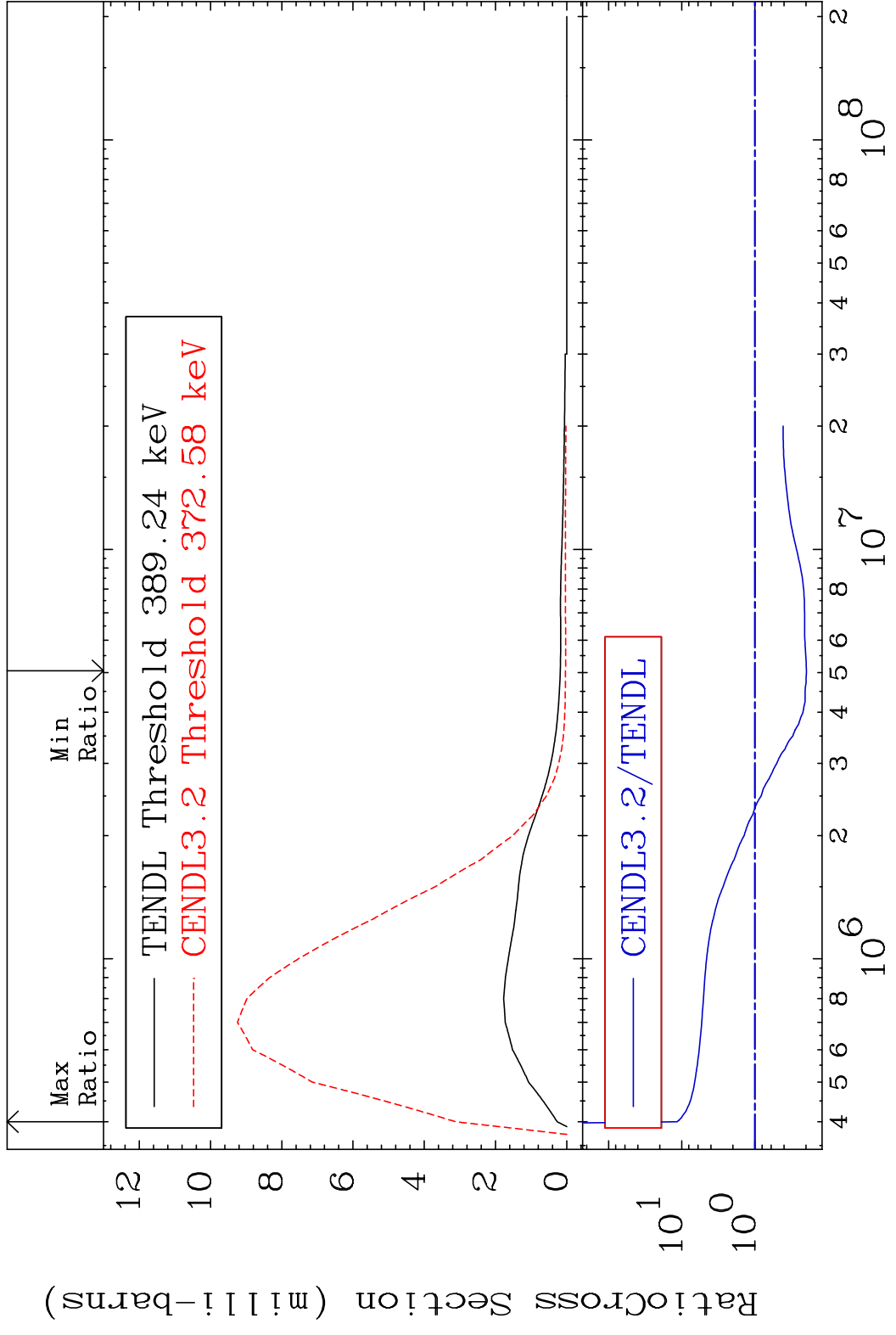
MAT 9431 MT= 61 (n,n') Level 94-Pu-237
 Cross Section -100.0 To 505.3 %



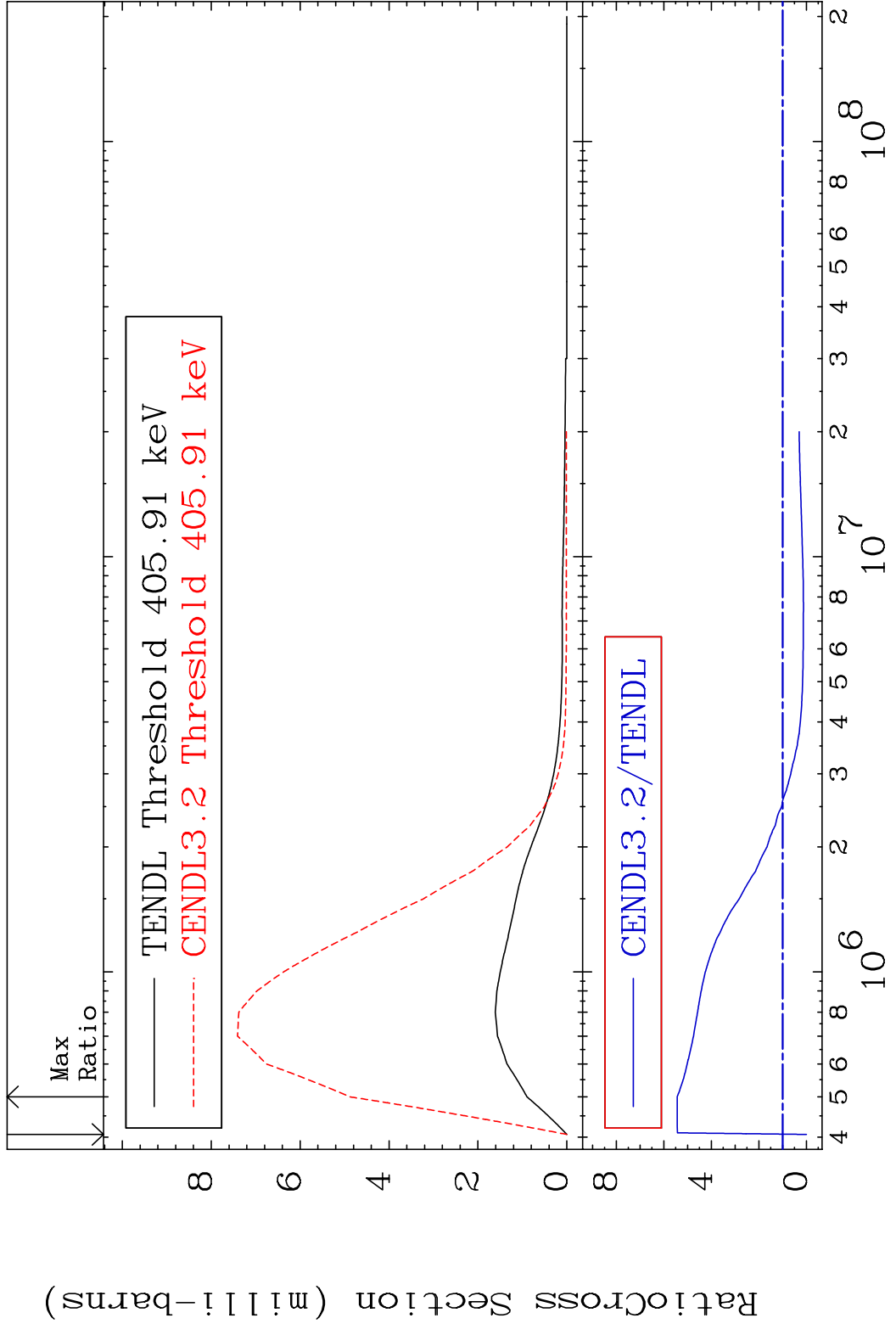
MAT 9431 MT= 62 (n,n') Level 94-Pu-237
 Cross Section -100.0 To 559.6 %



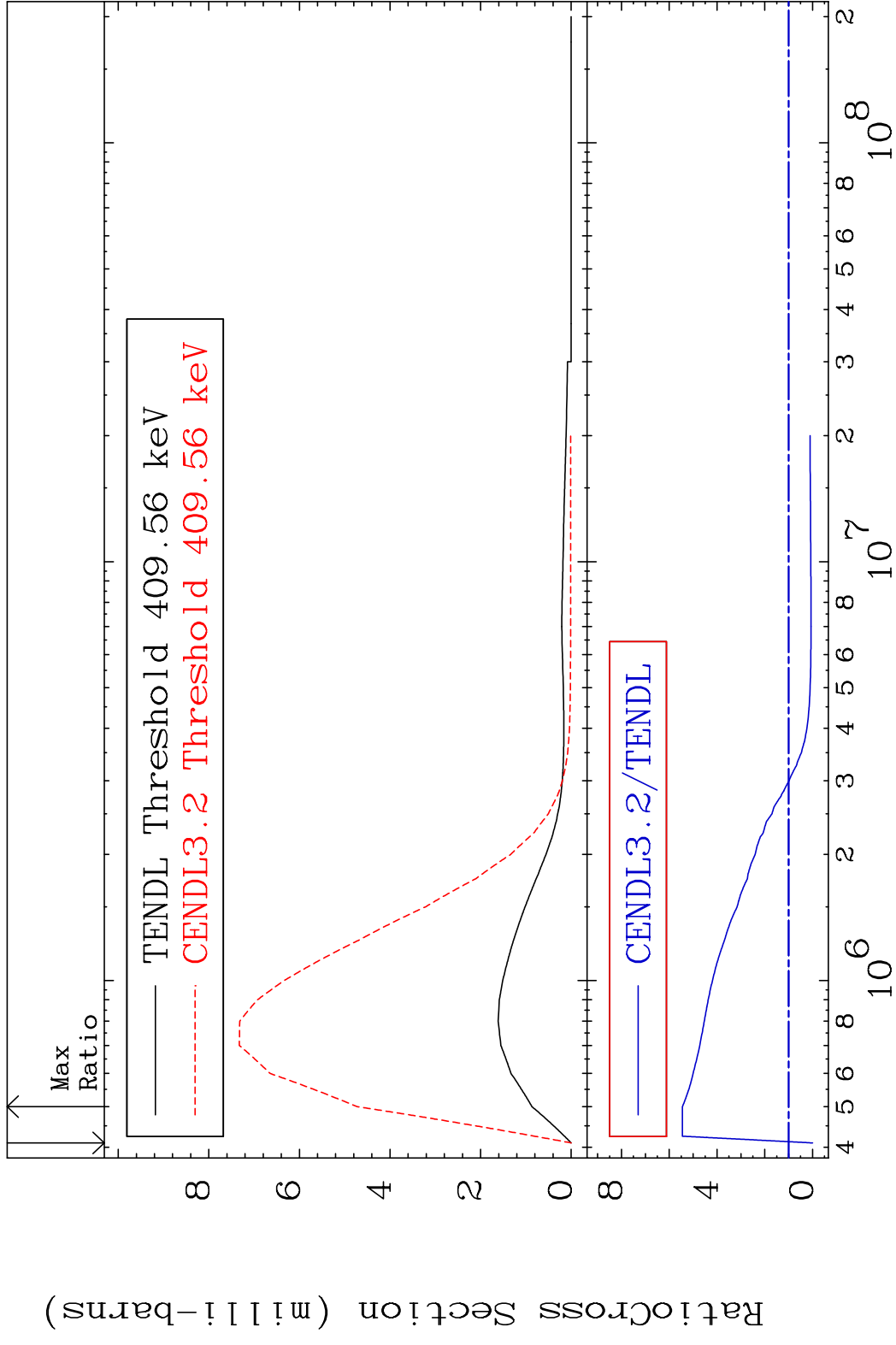
MAT 9431 MT= 63 (n, n') Level 94-Pu-237
 Cross Section -80.21 To 1056. %



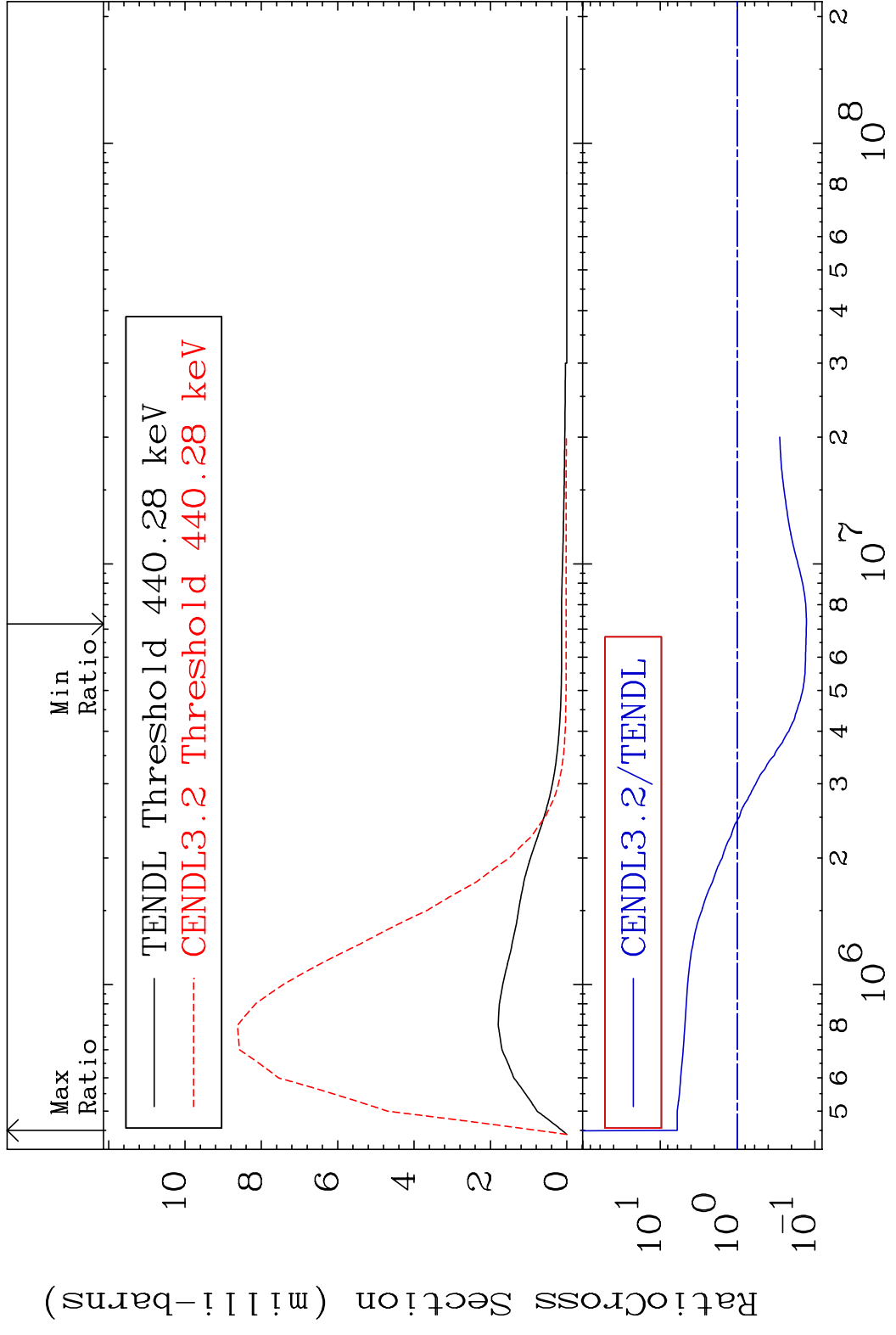
MAT 9431 MT= 64 (n, n') Level 94-Pu-237
 Cross Section -100.0 To 443.9 %



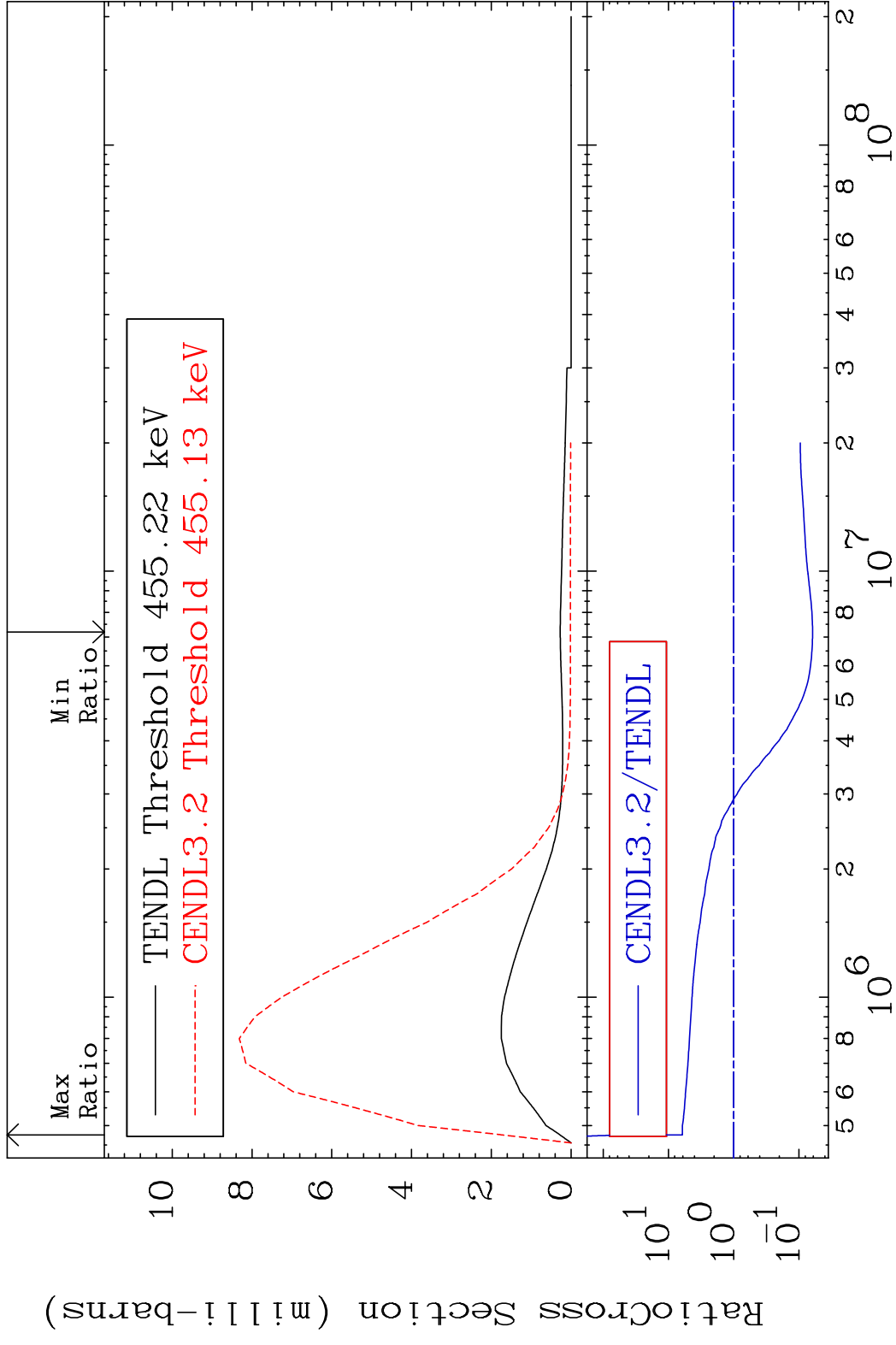
MAT 9431 MT= 65 (n,n') Level 94-Pu-237
 Cross Section -100.0 To 445.2 %



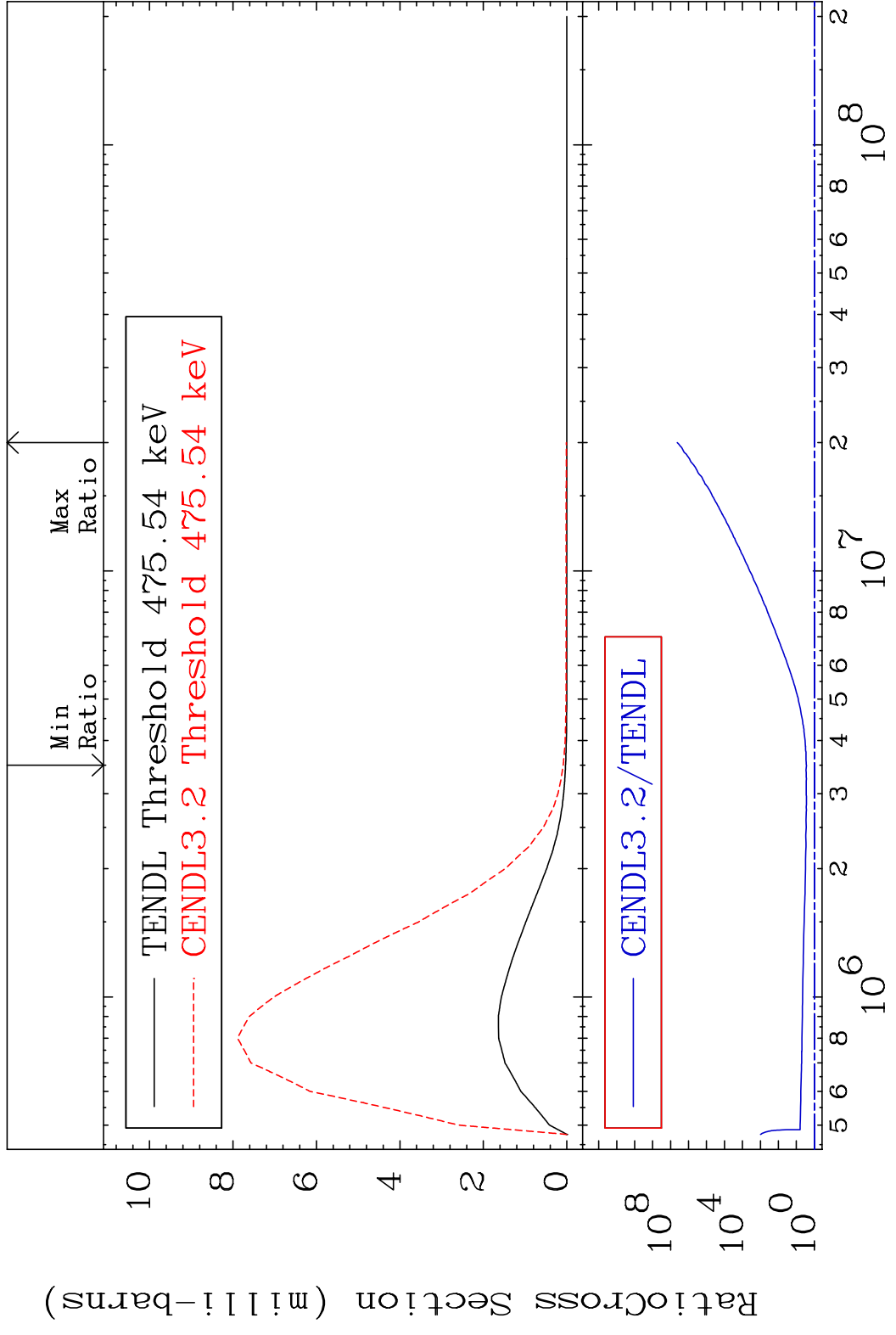
MAT 9431 MT= 66 (n,n') Level 94-Pu-237
 Cross Section -87.15 To 503.2 %



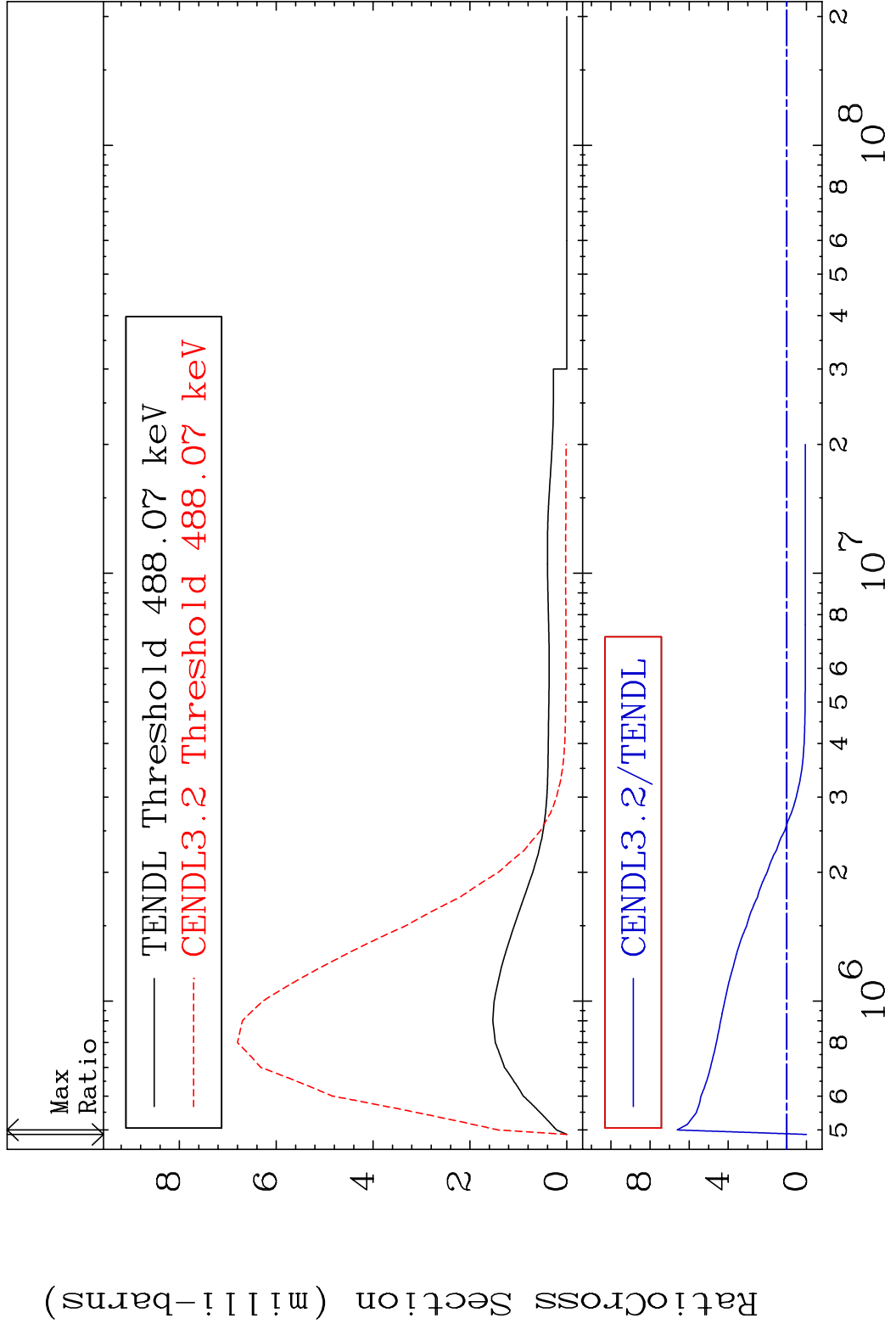
MAT 9431 MT= 67 (n, n') Level 94-Pu-237
 Cross Section -93.82 To 511.5 %



MAT 9431 MT= 68 (n, n') Level 94-Pu-237
 Cross Section 175.6 To 9999. %



MAT 9431 MT= 69 (n, n') Level 94-Pu-237
 Cross Section -100.0 To 561.0 %

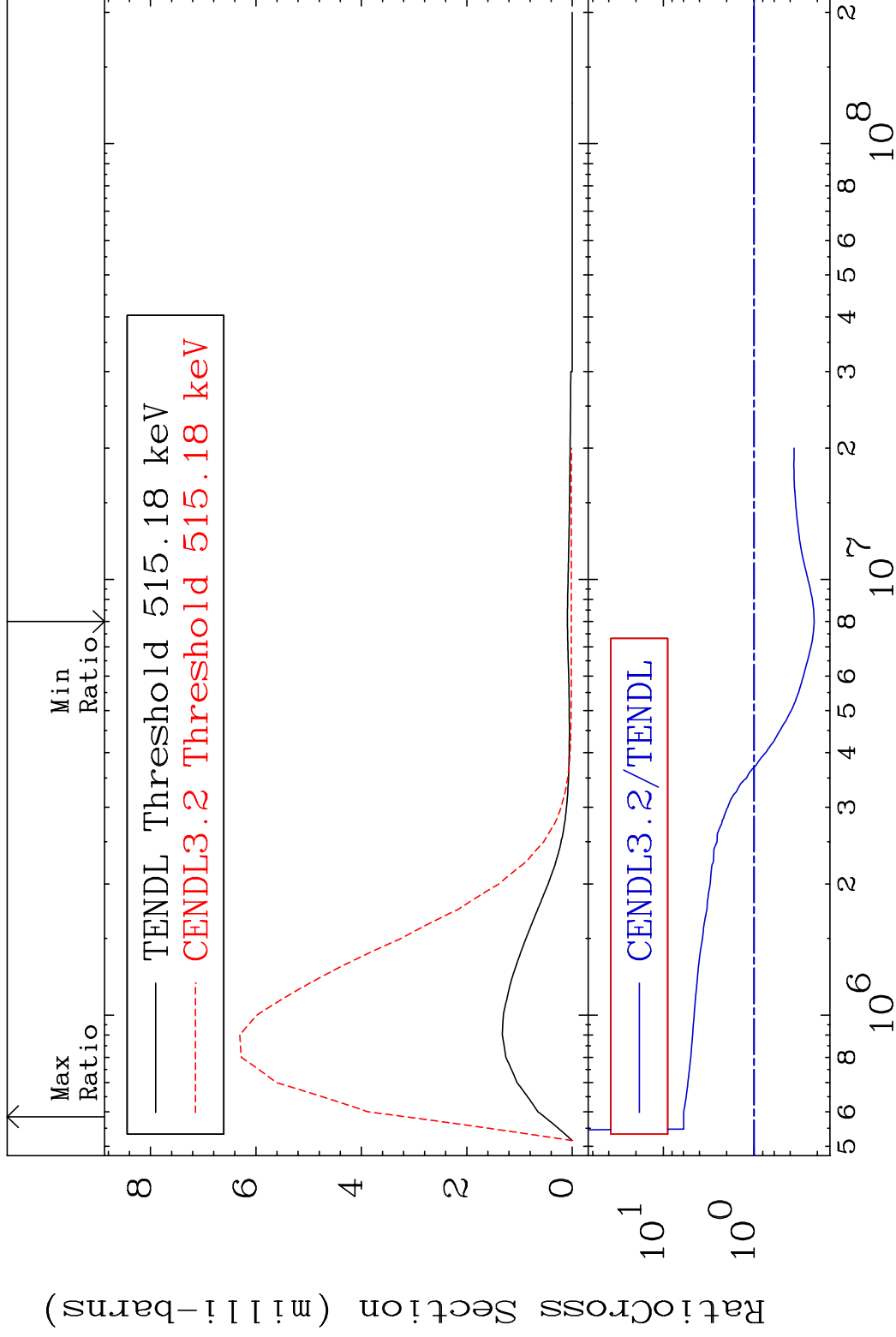


MAT 9431

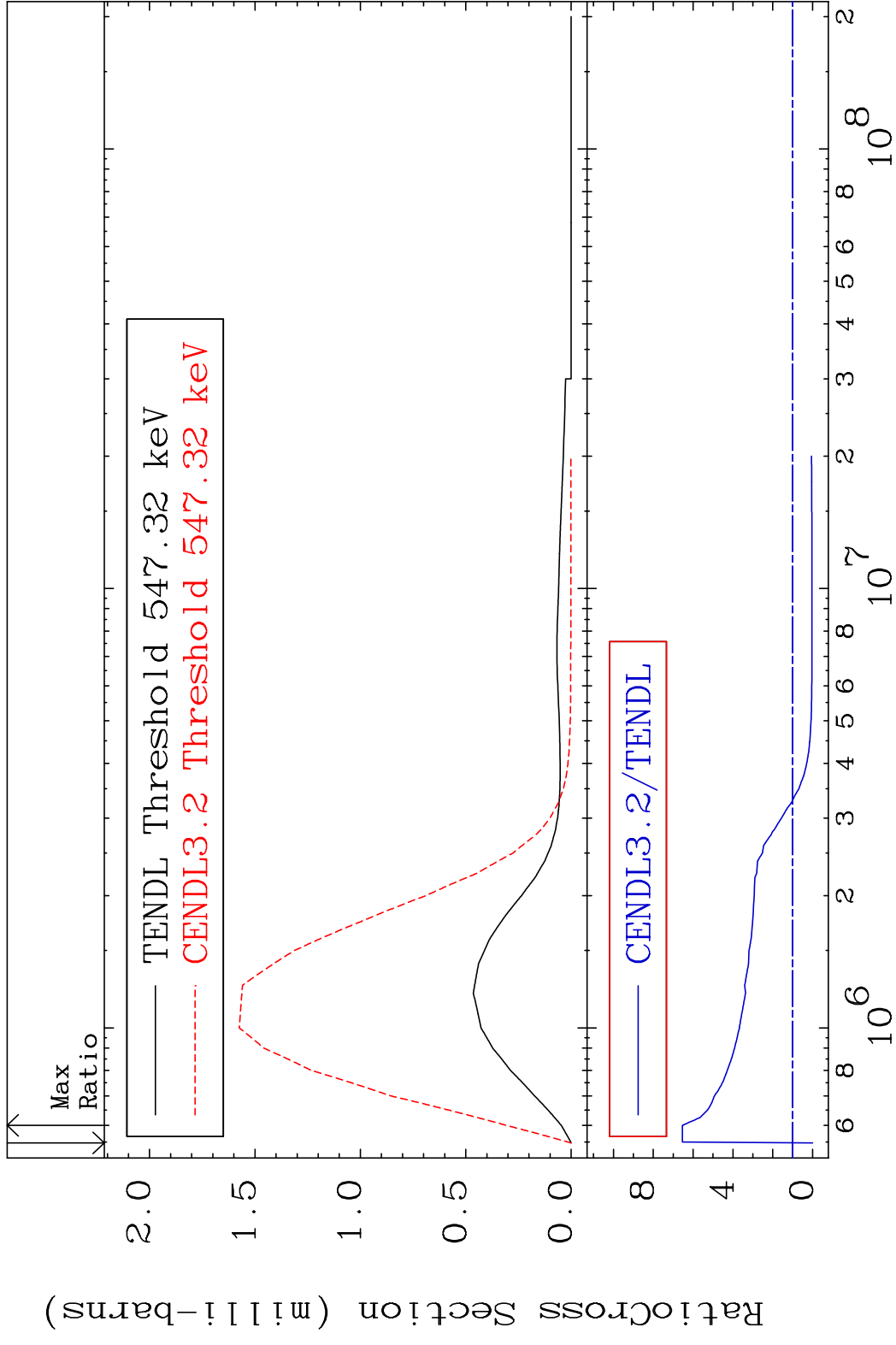
MT= 70 (n, n') Level

94-Pu-237

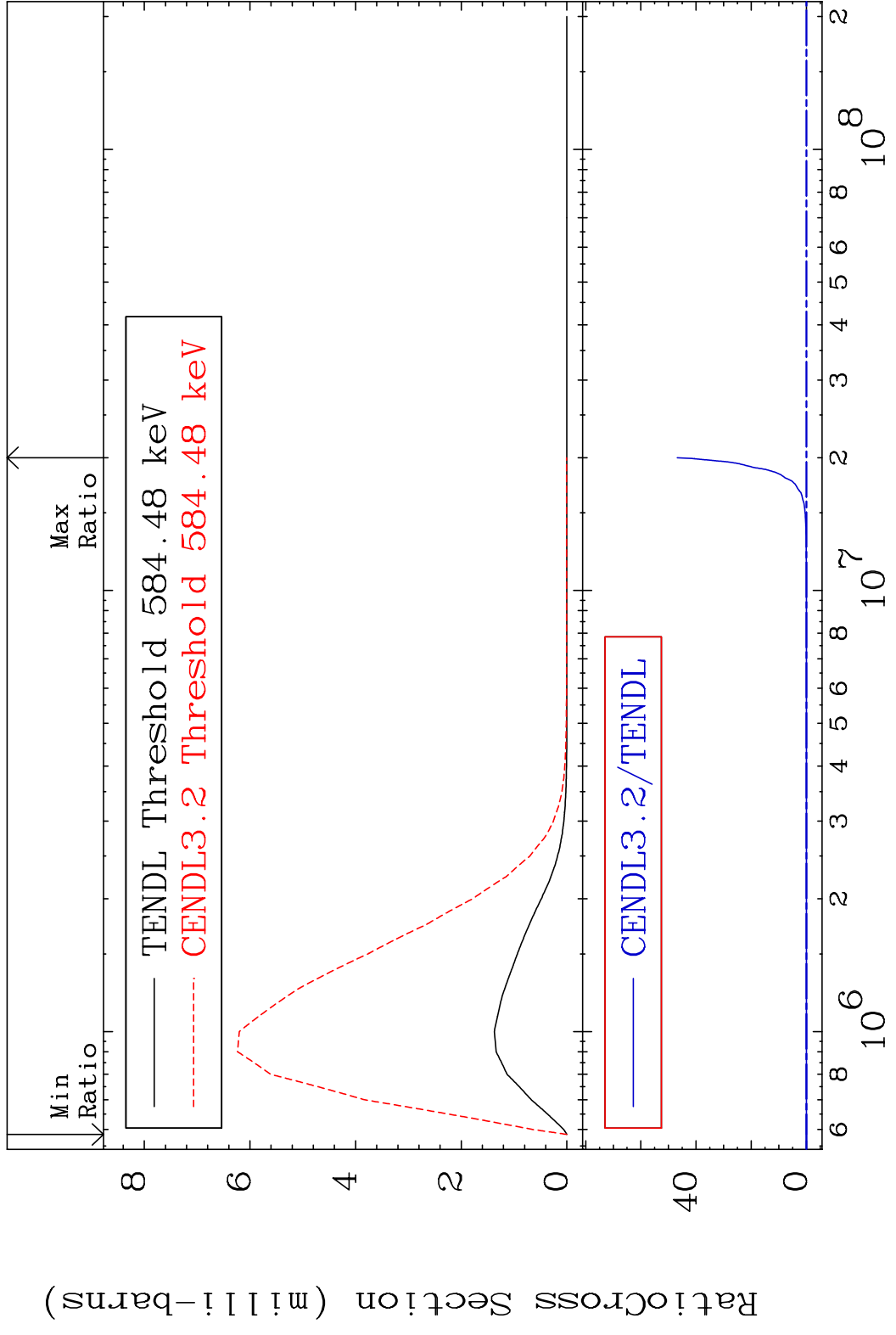
Cross Section -78.26 To 496.4 %



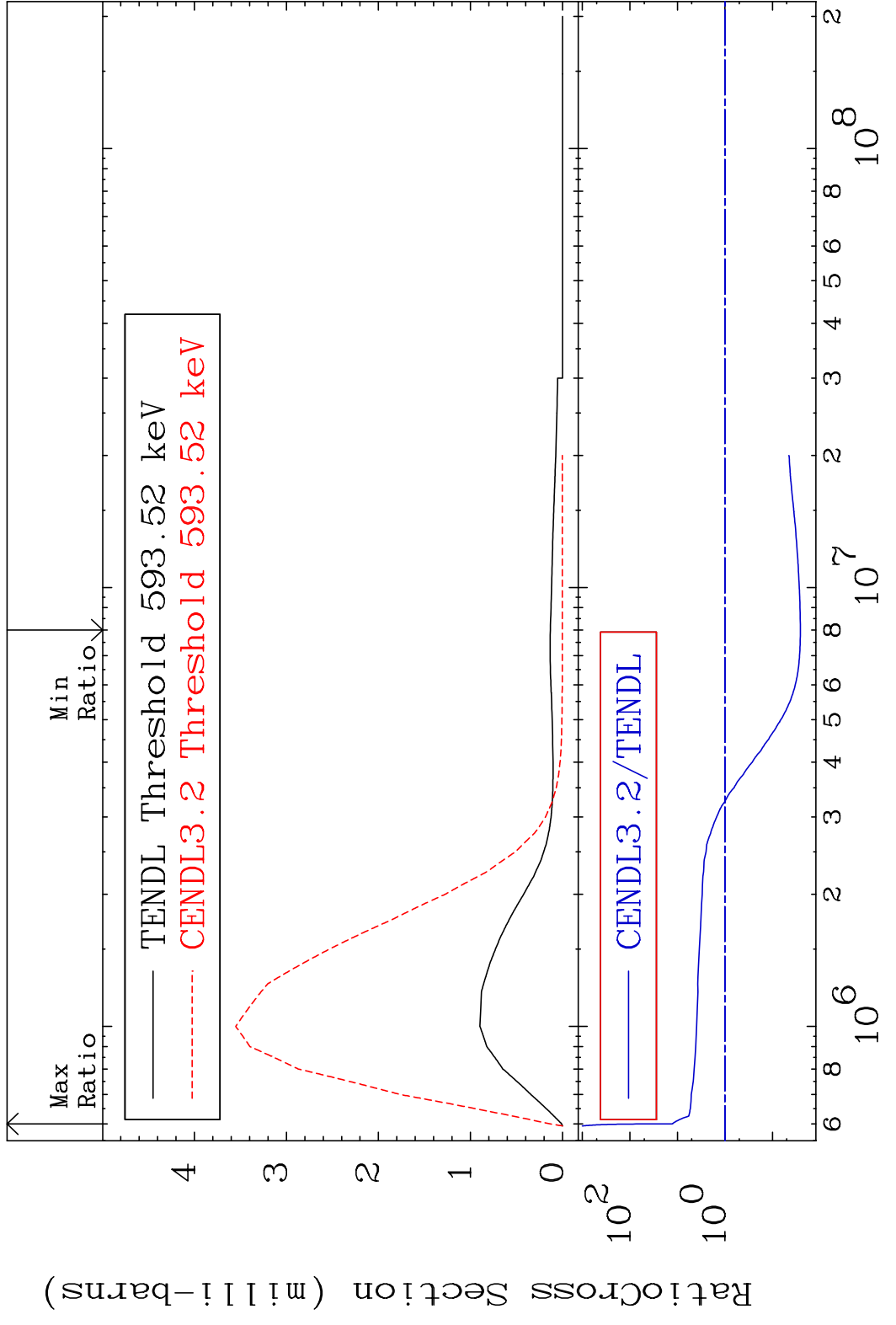
MAT 9431 MT= 71 (n, n') Level 94-Pu-237
 Cross Section -100.0 To 553.8 %



MAT 9431 MT= 72 (n, n') Level 94-Pu-237
 Cross Section -100.0 To 9999. %



MAT 9431 MT= 73 (n,n') Level 94-Pu-237
 Cross Section -97.41 To 1195. %

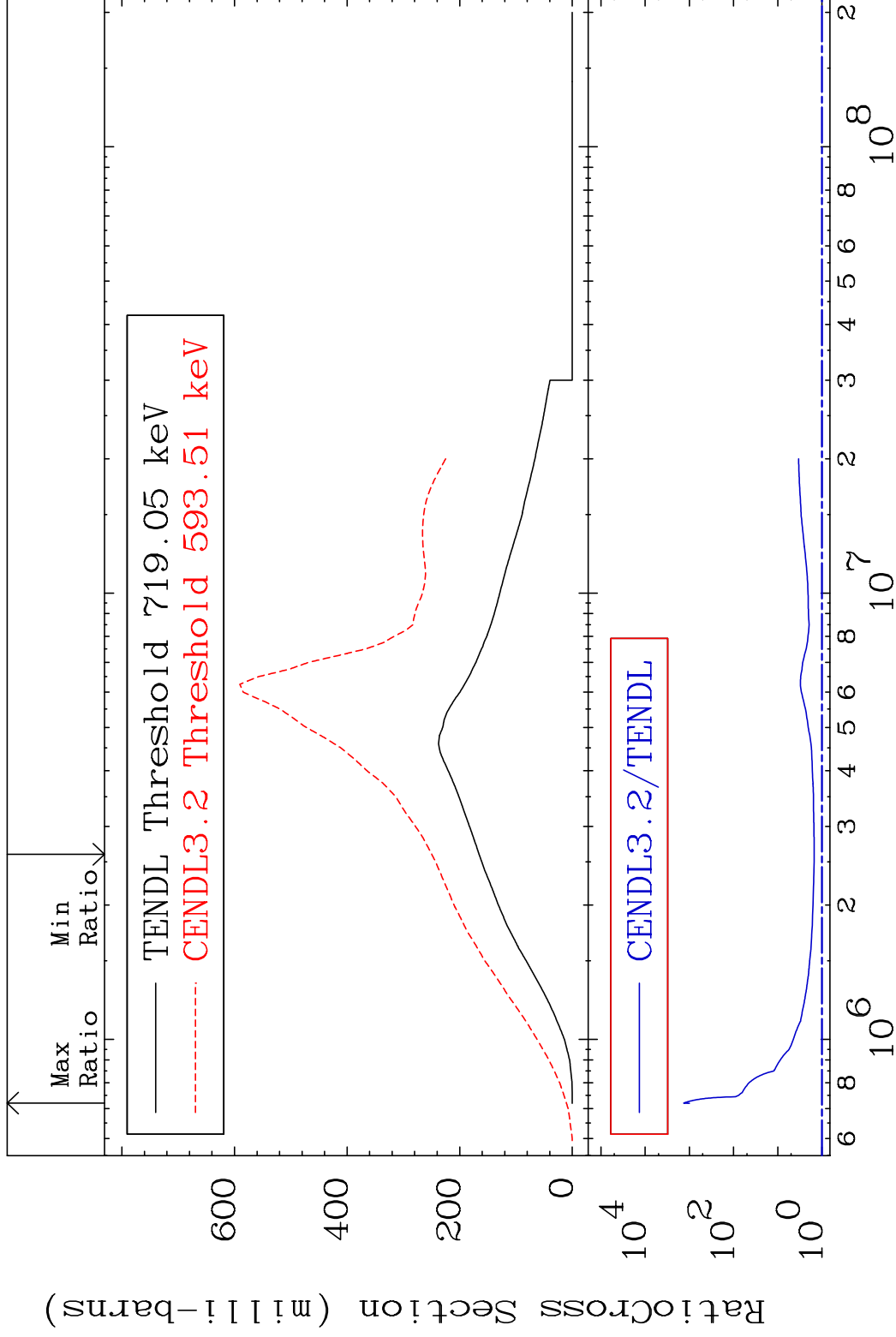


MAT 9431

(n,n') Continuum

94-Pu-237

Cross Section 50.79 To 9999. %



30

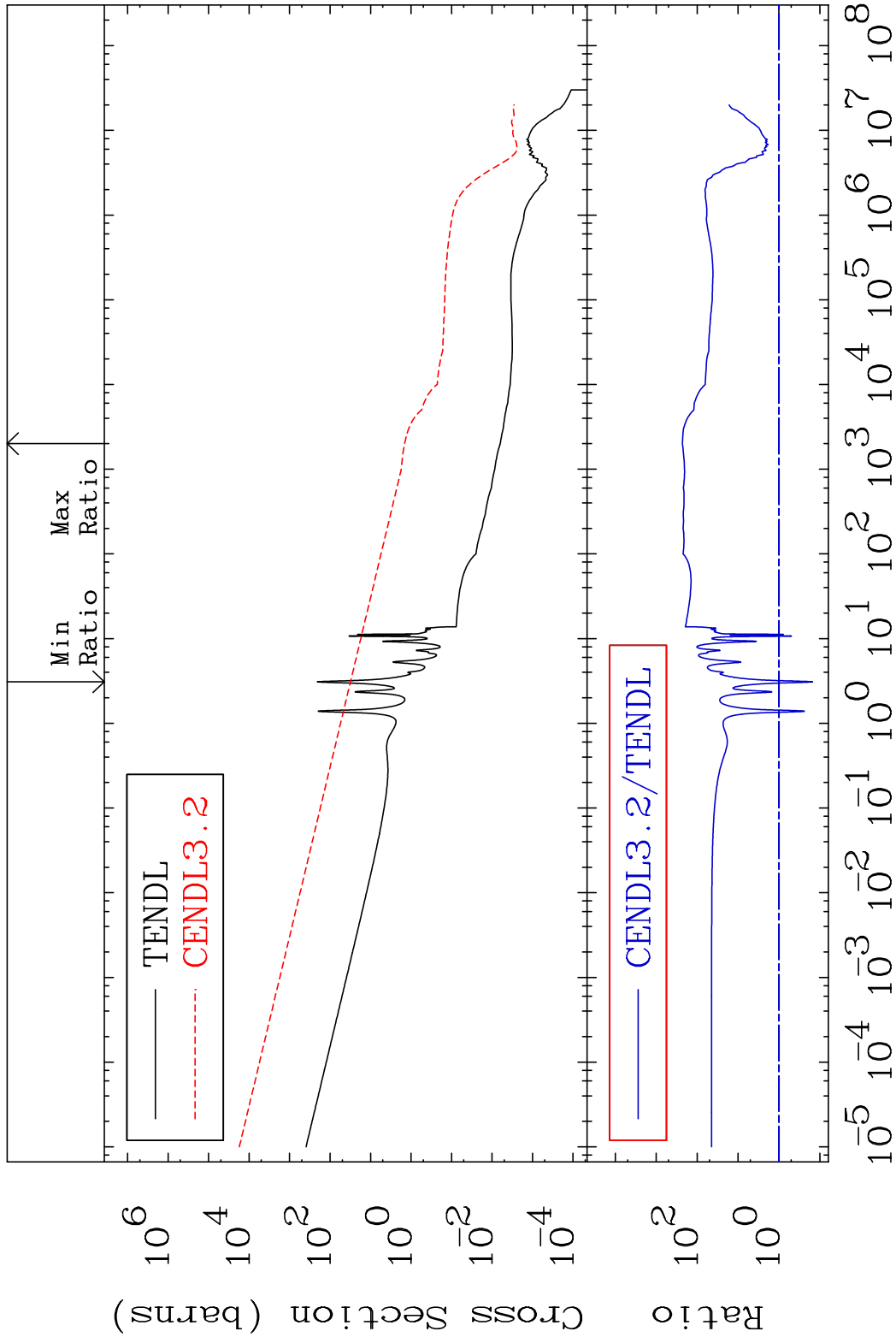
Incident Energy (eV)

94-Pu-237

MAT 9431

(n, γ)
Cross Section -84.90 To 9999. %

94-Pu-237



31

Incident Energy (eV)

94-Pu-237

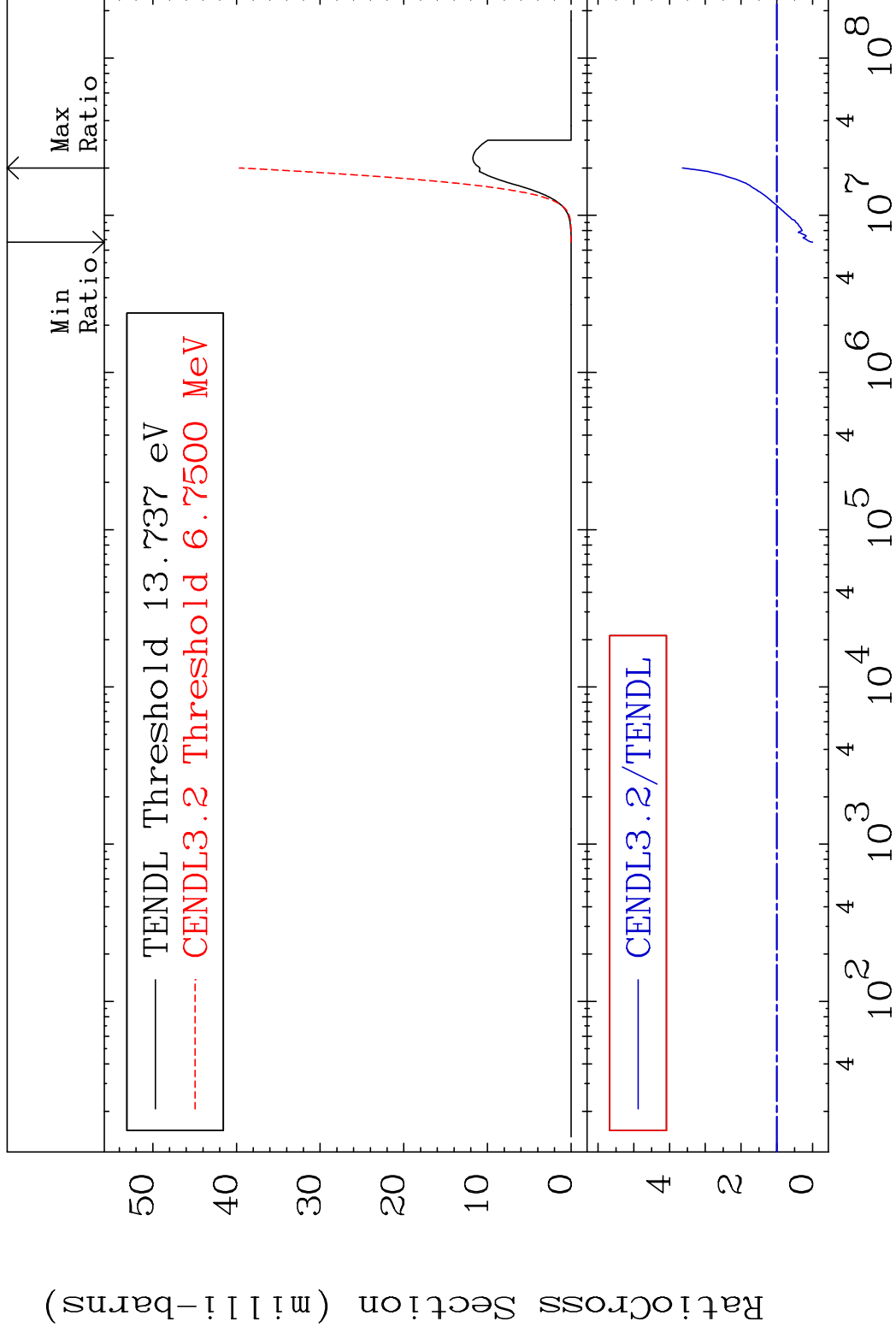
MAT 9431

(n, p)

94-Pu-237

Cross Section

-100.0 To 264.2 %



32

Incident Energy (eV)

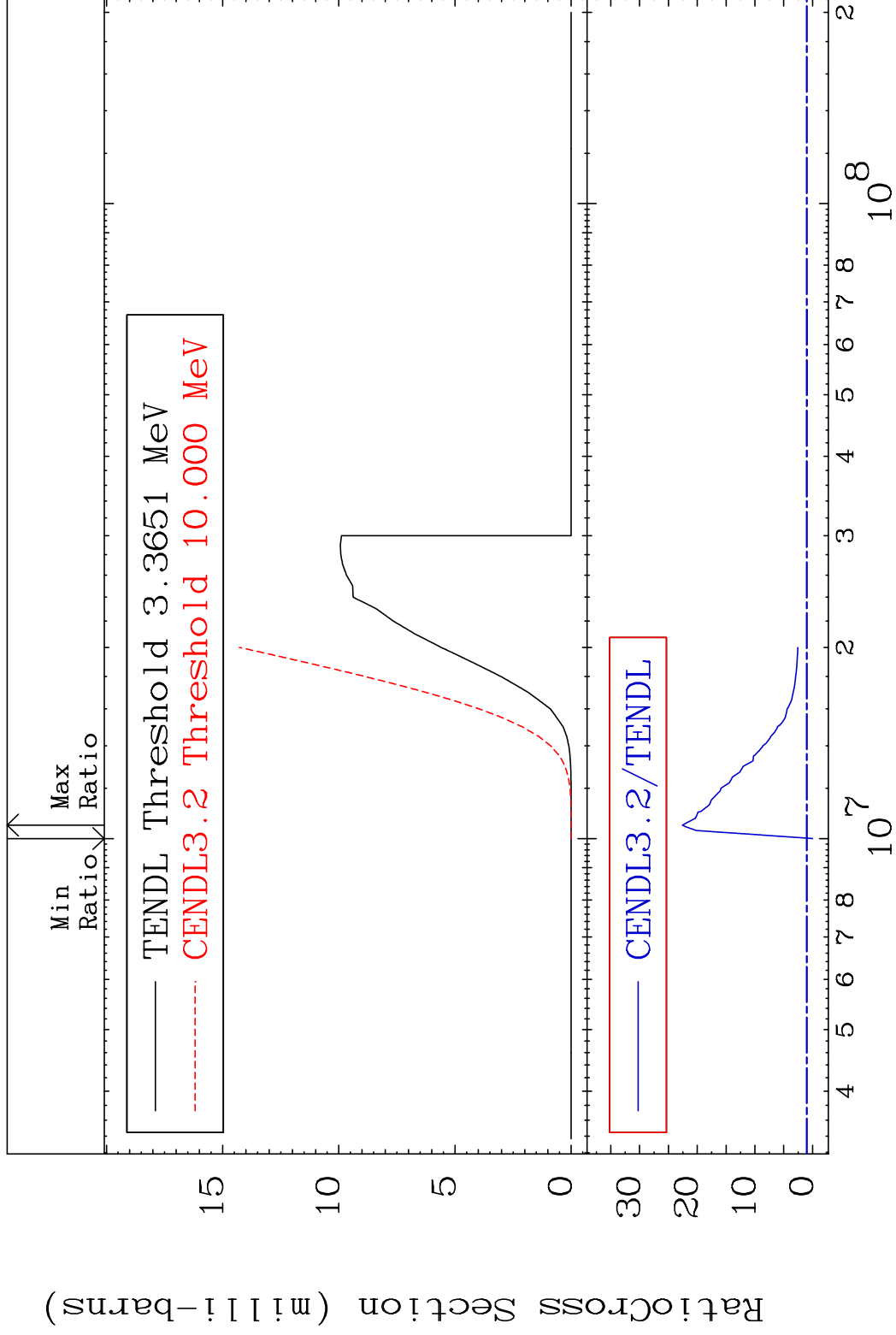
94-Pu-237

MAT 9431

(n, d)

94-Pu-237

Cross Section -100.0 To 2158. %



33

Incident Energy (eV)

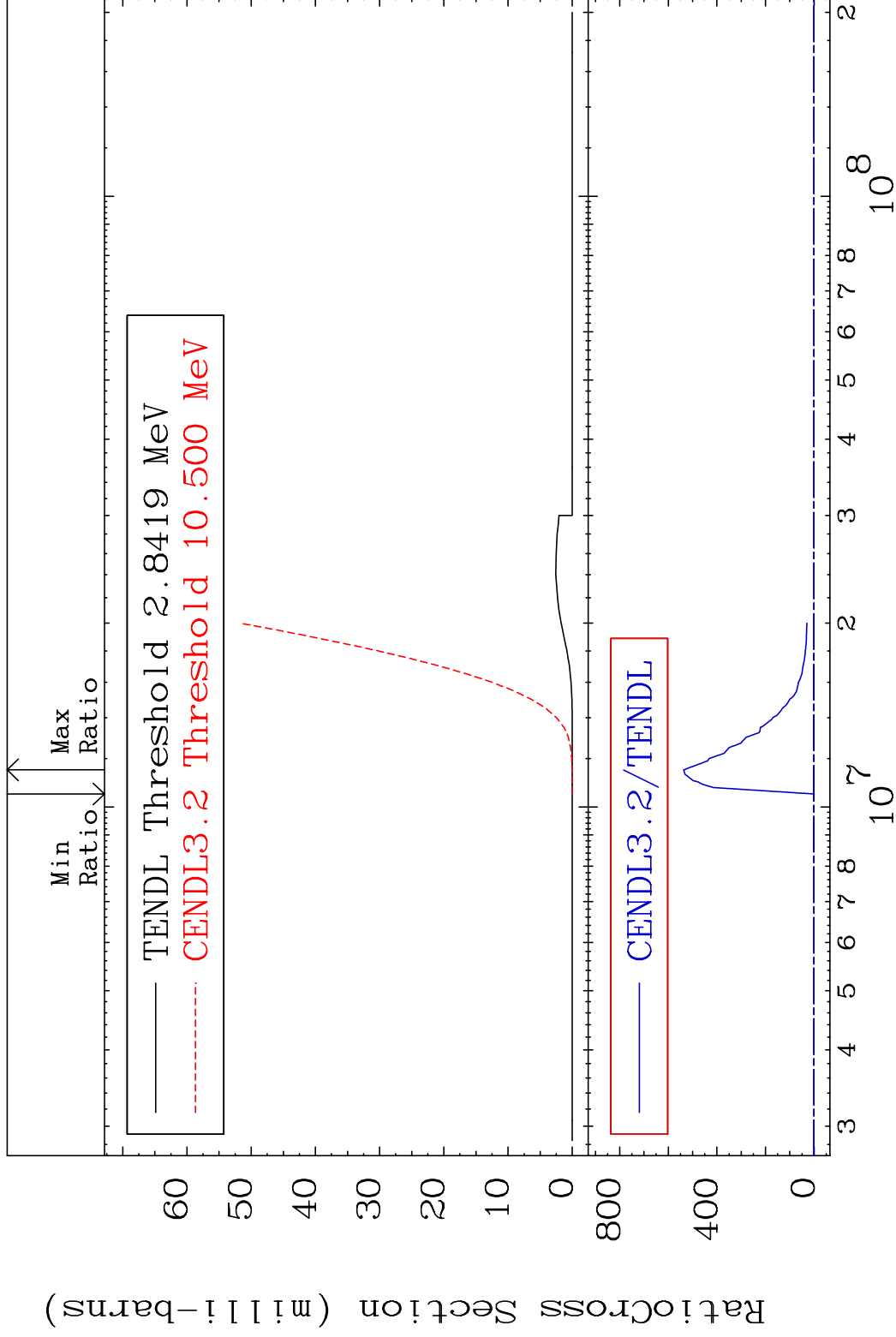
94-Pu-237

MAT 9431

(n, t)

94-Pu-237

Cross Section -100.0 To 9999. %



34

Incident Energy (eV)

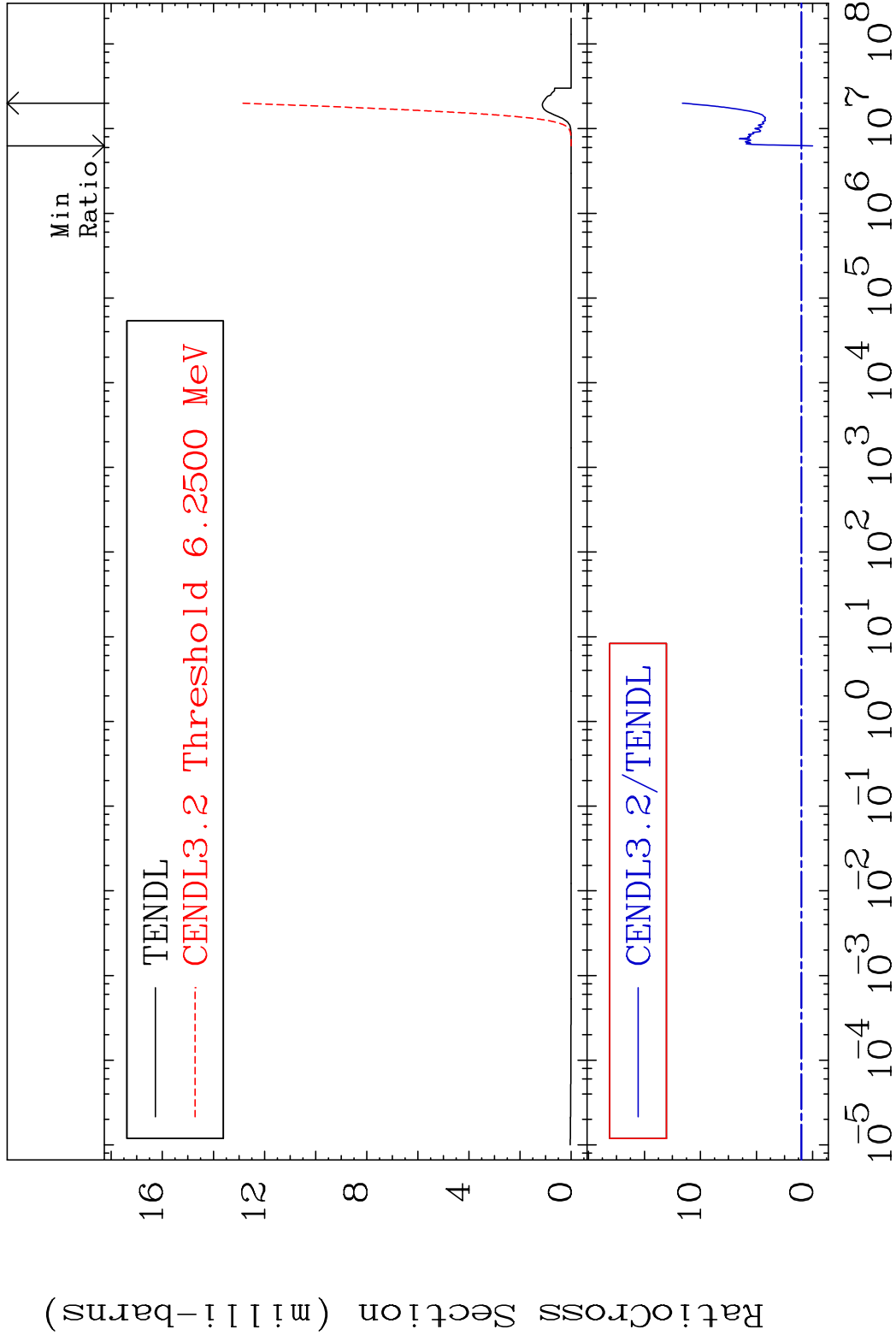
94-Pu-237

MAT 9431

(n, α)

94-Pu-237

Cross Section -100.0 To 1062. %



35

Incident Energy (eV)

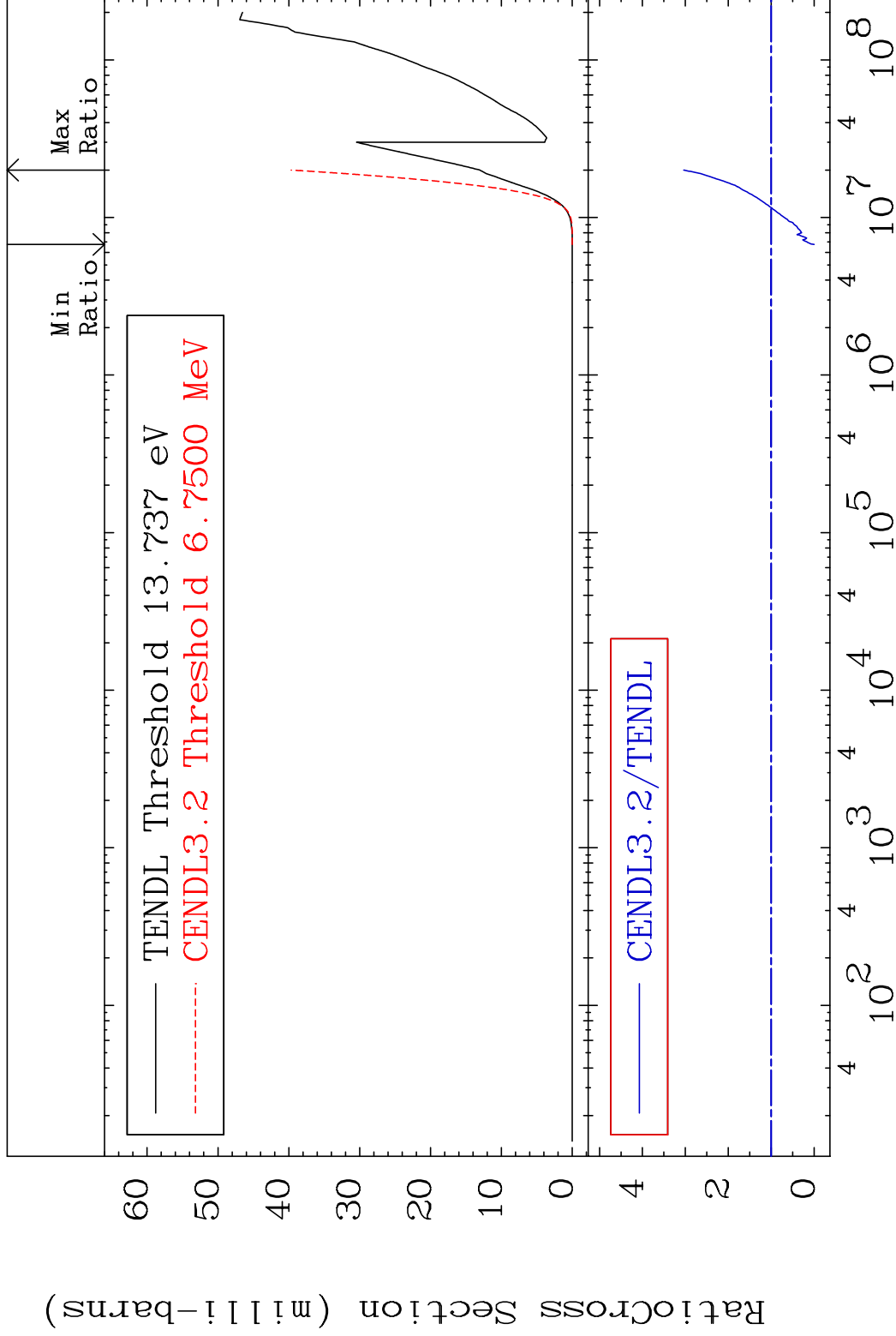
94-Pu-237

MAT 9431

Hydrogen Production

94-Pu-237

Cross Section -100.0 To 204.0 %



36

Incident Energy (eV)

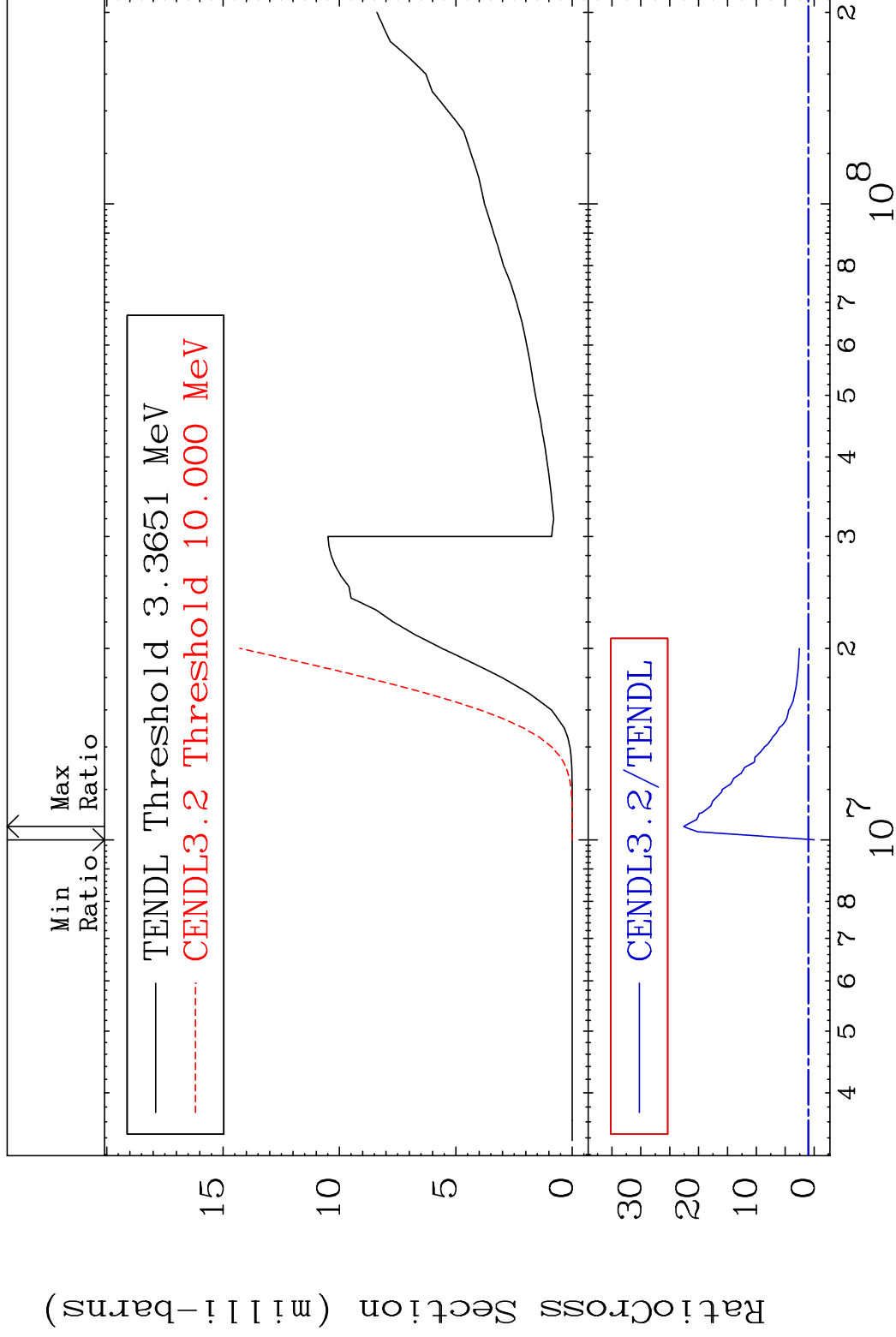
94-Pu-237

MAT 9431

Deuterium Production

94-Pu-237

Cross Section -100.0 To 2158. %



37

Incident Energy (eV)

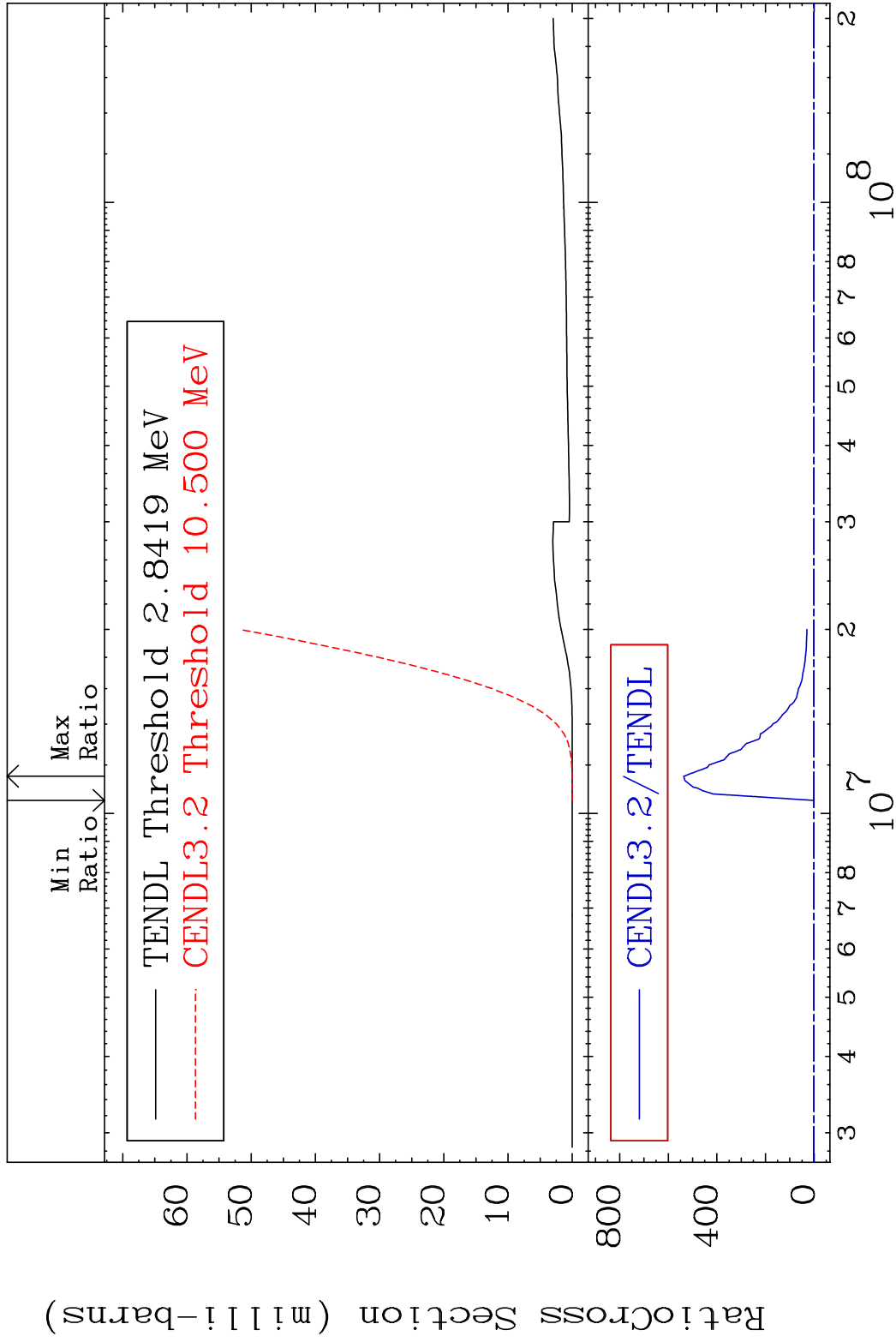
94-Pu-237

MAT 9431

Tritium Production

94-Pu-237

Cross Section -100.0 To 9999. %



38

Incident Energy (eV)

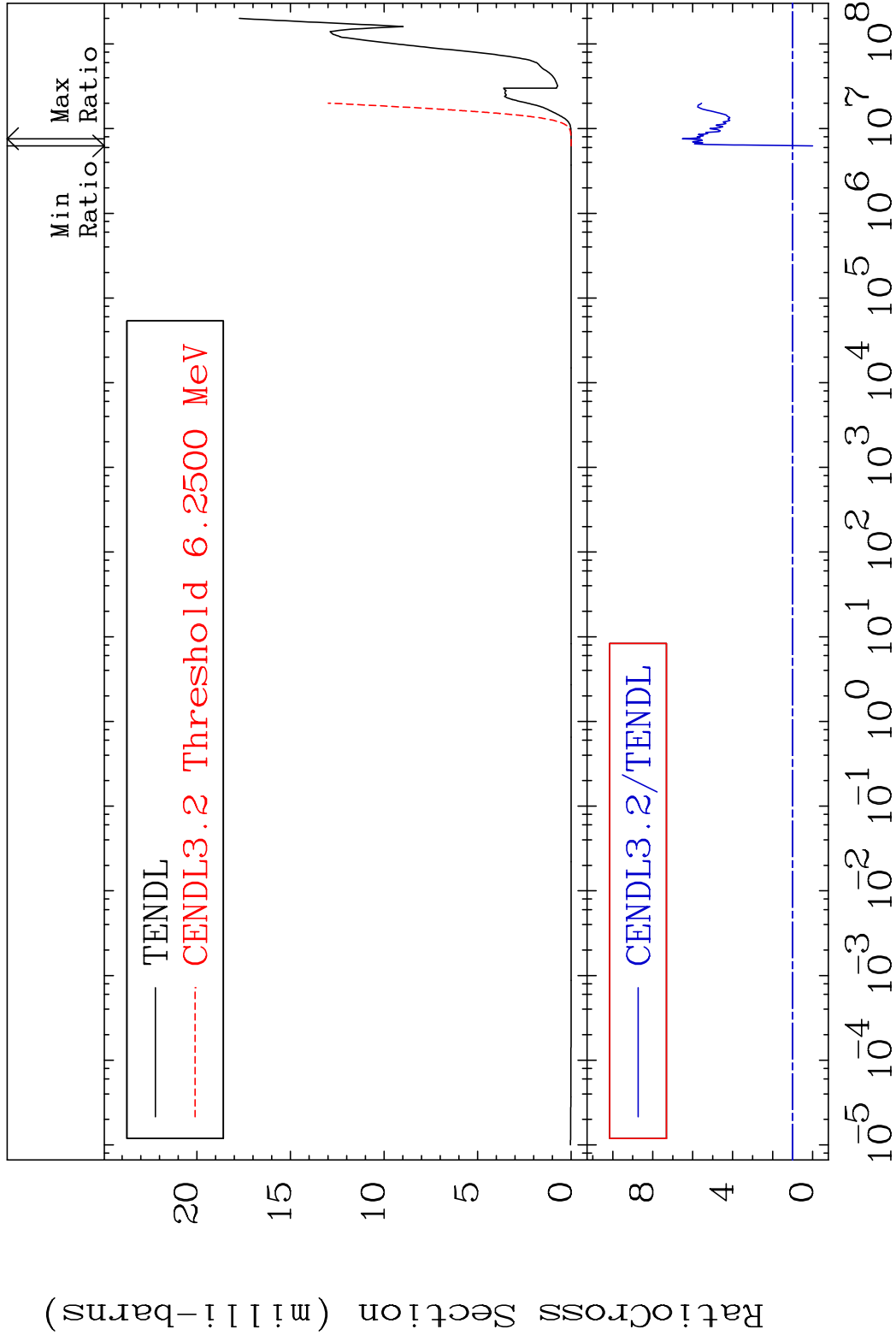
94-Pu-237

MAT 9431

He-4 Production

94-Pu-237

Cross Section -100.0 To 551.8 %



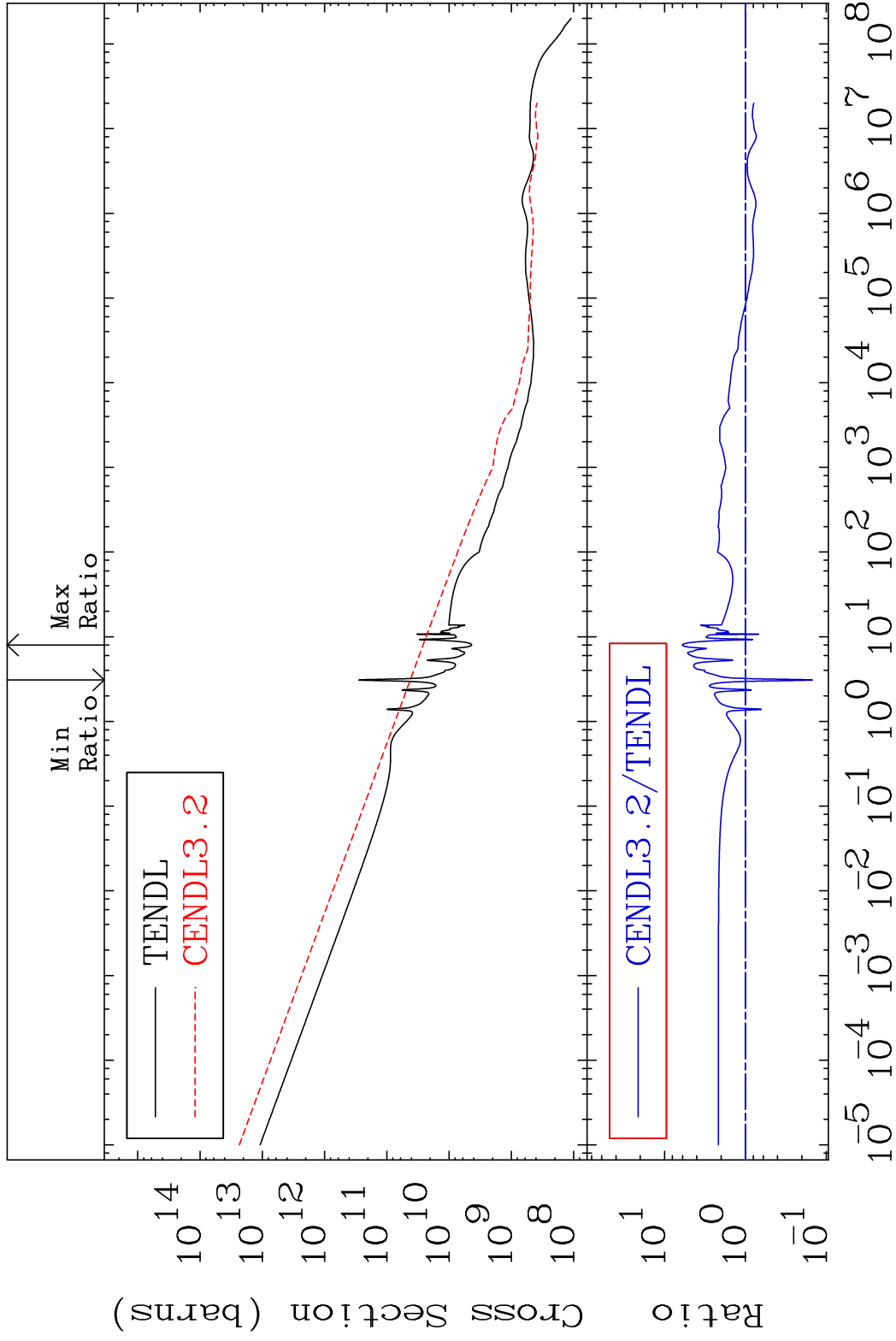
39

Incident Energy (eV)

94-Pu-237

MAT 9431

Kerma total (eV-barns) 94-Pu-237
Cross Section -85.25 To 502.9 %



40

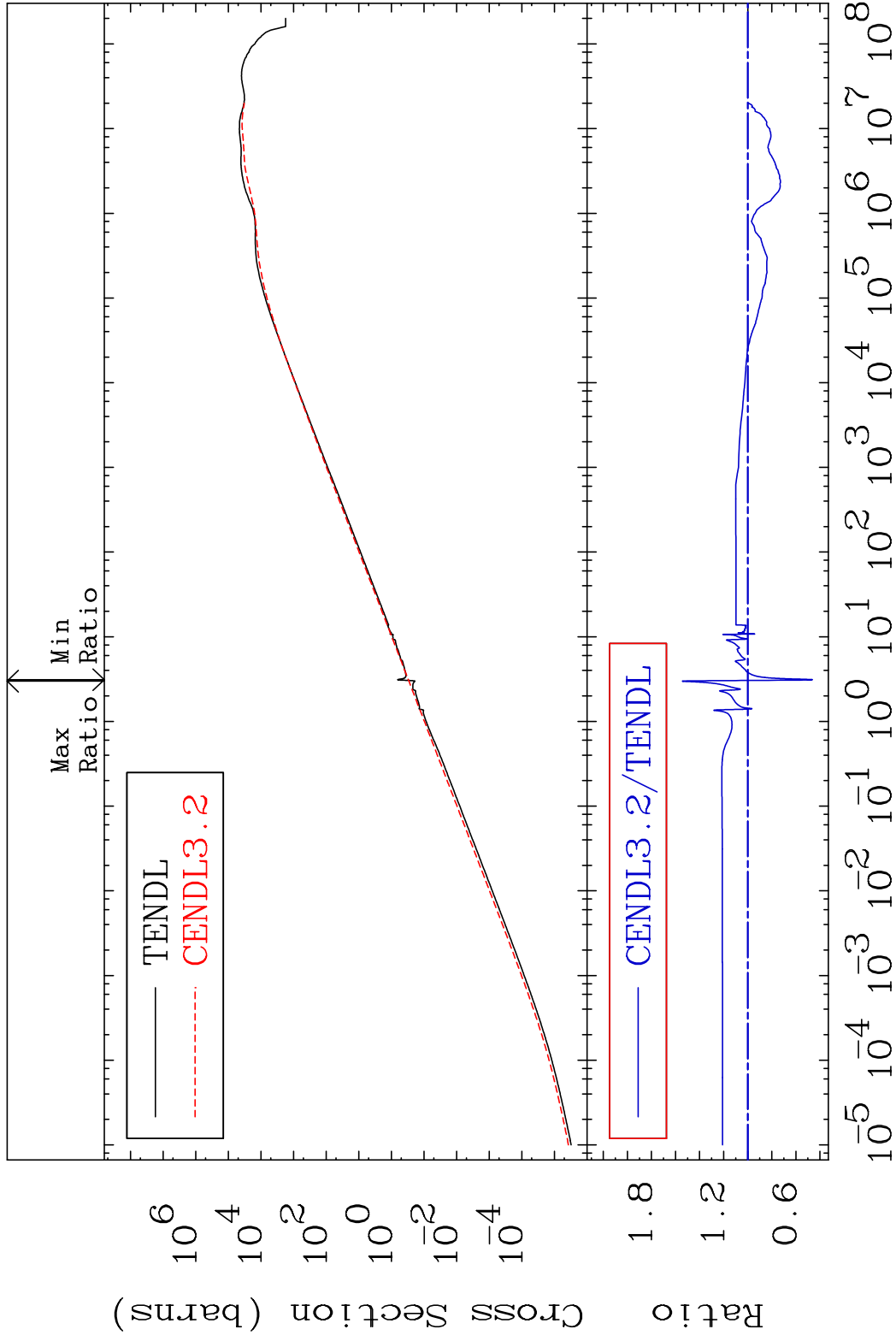
Incident Energy (eV)

94-Pu-237

MAT 9431

Kerma elastic
Cross Section -53.86 To 54.33 %

94-Pu-237

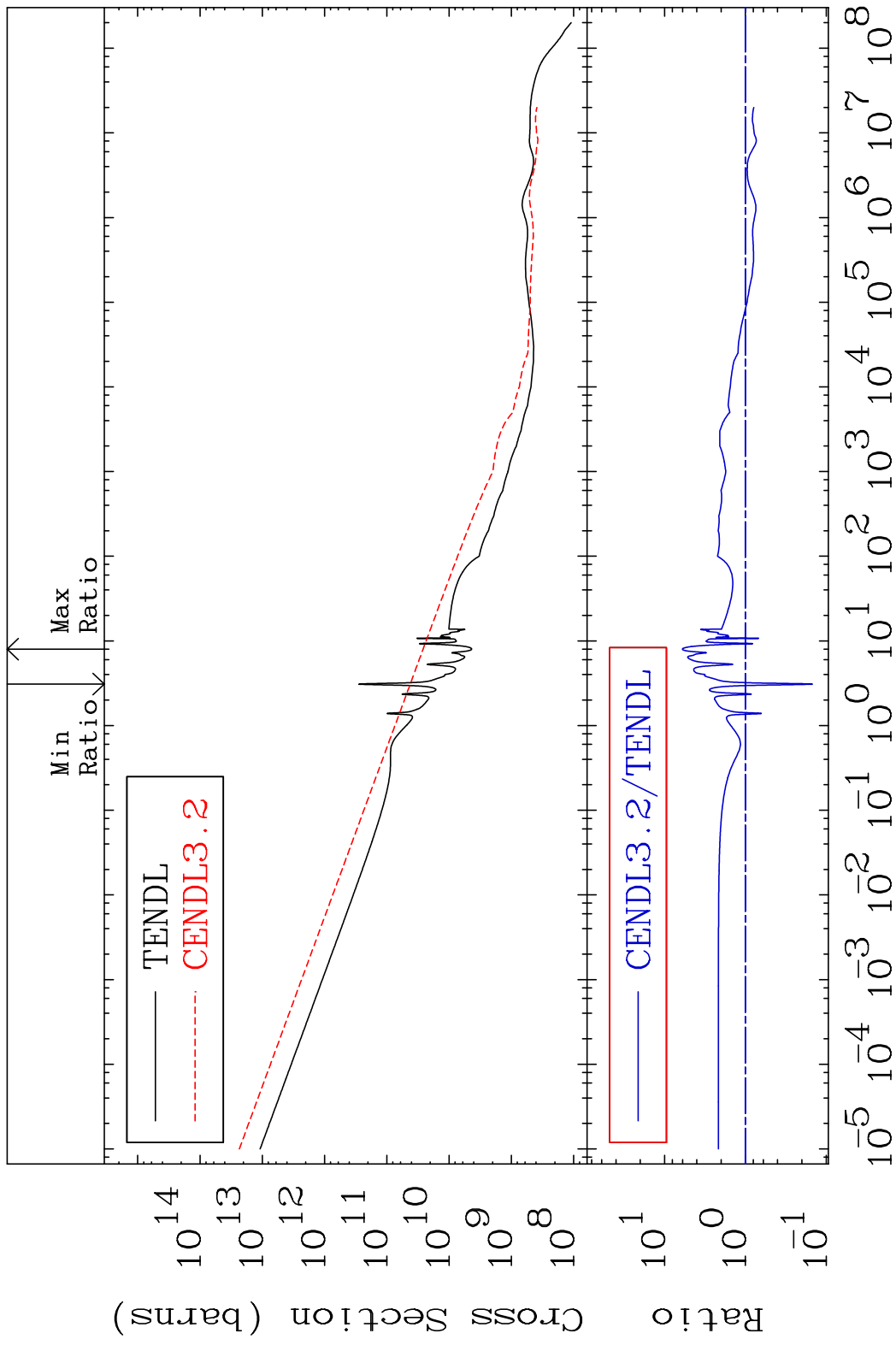


41

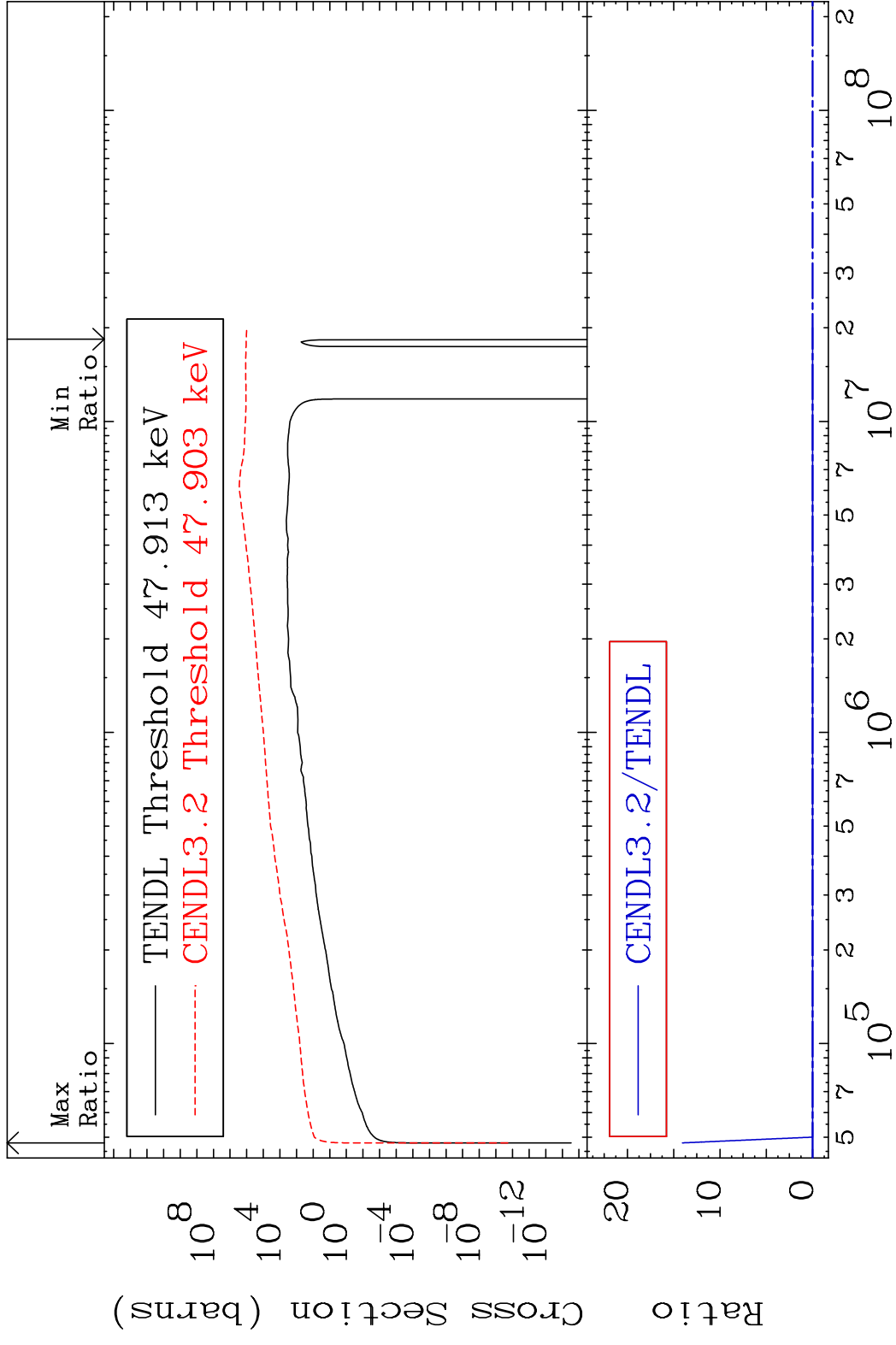
Incident Energy (eV)

94-Pu-237

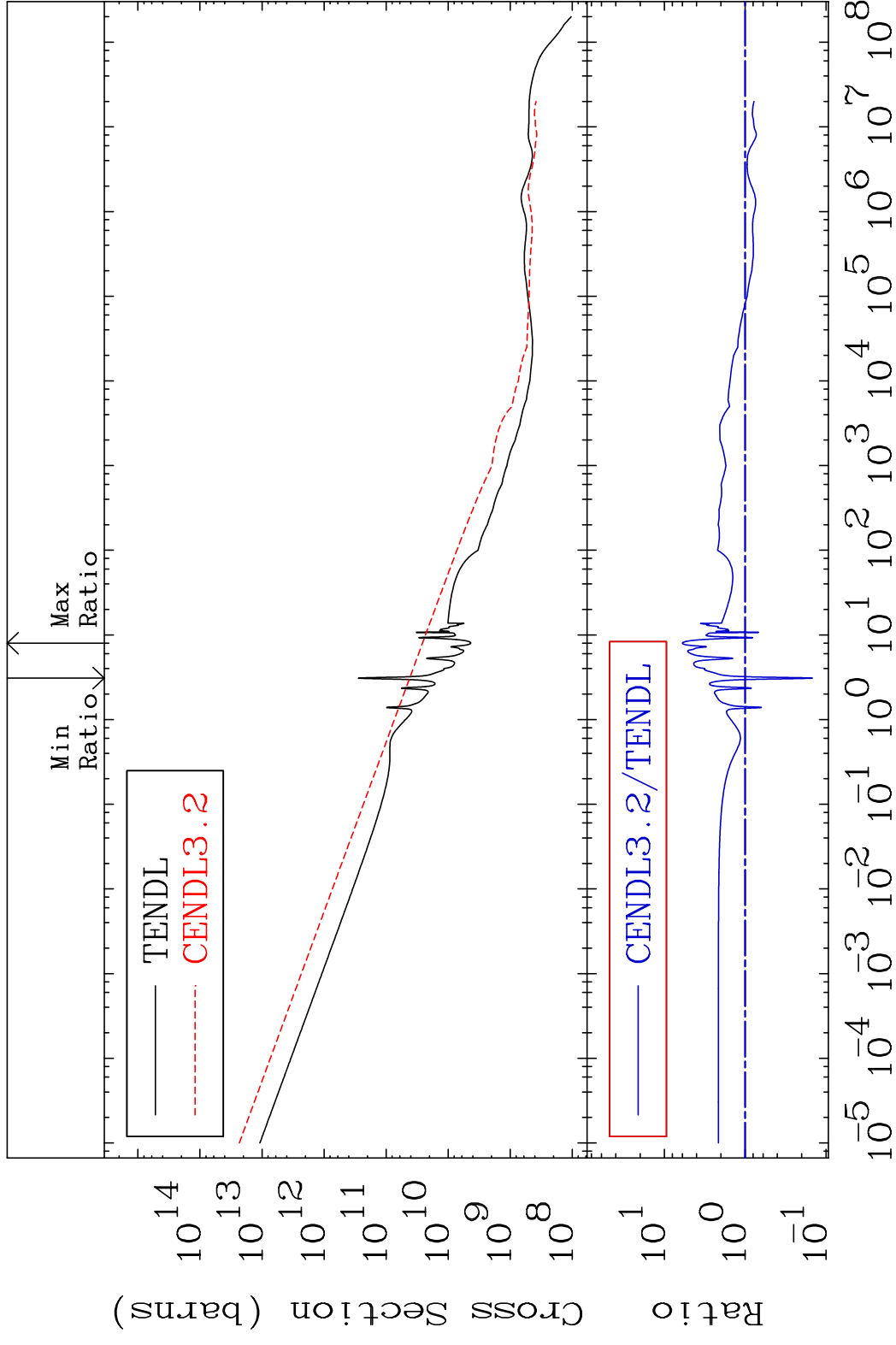
MAT 9431 Kerma non-elastic (all but mt2) 94-Pu-237
 Cross Section -85.25 To 502.9 %



MAT 9431 Kerma inelastic (mt51-91) 94-Pu-237
 Cross Section -9999. To 9999. %

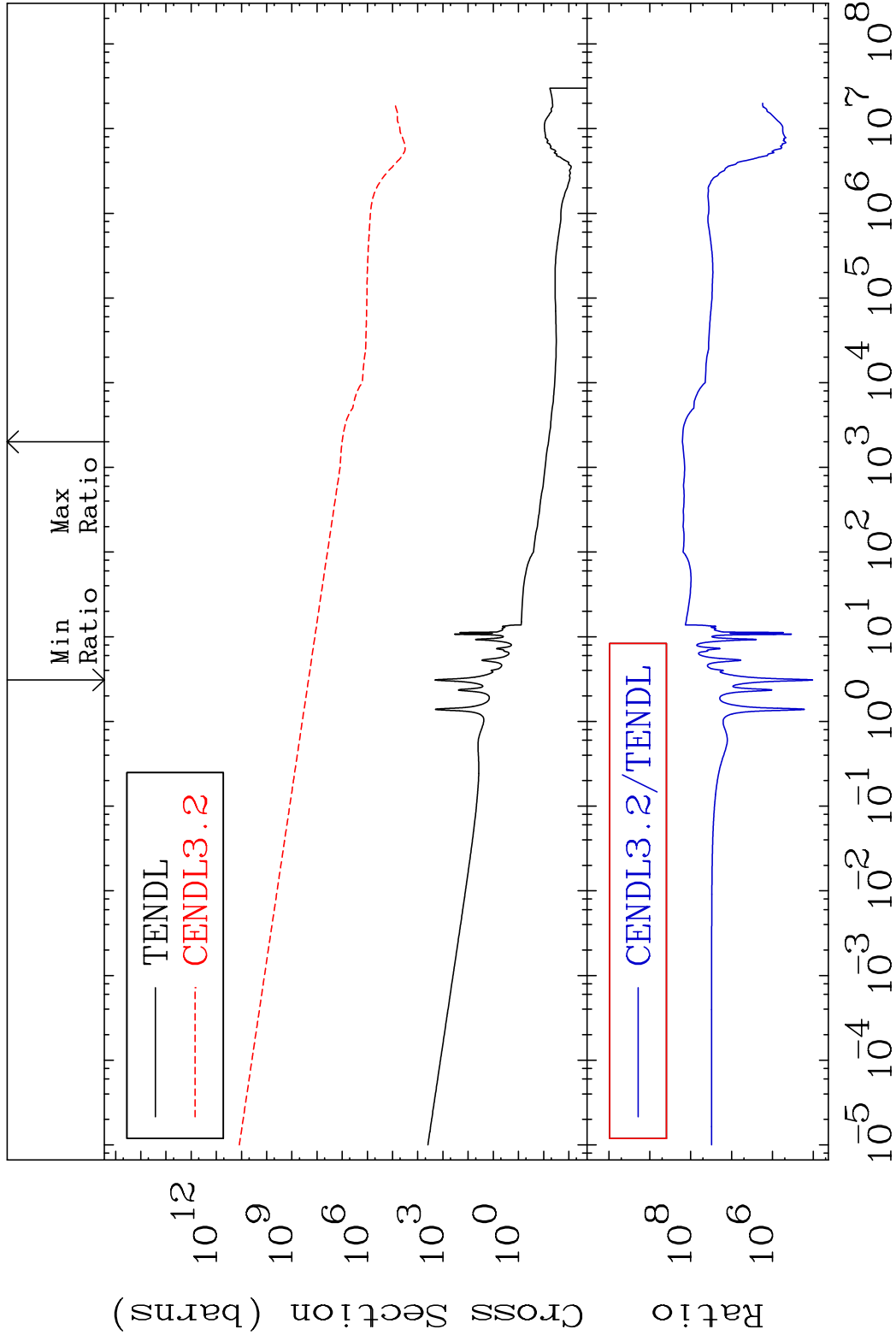


MAT 9431 Kerma fission (mt18 or mt19-20-21-38) 94-Pu-237
 Cross Section -85.33 To 499.8 %



MAT 9431

Kerma capture (mt102) 94-Pu-237
Cross Section 9999. To 9999. %

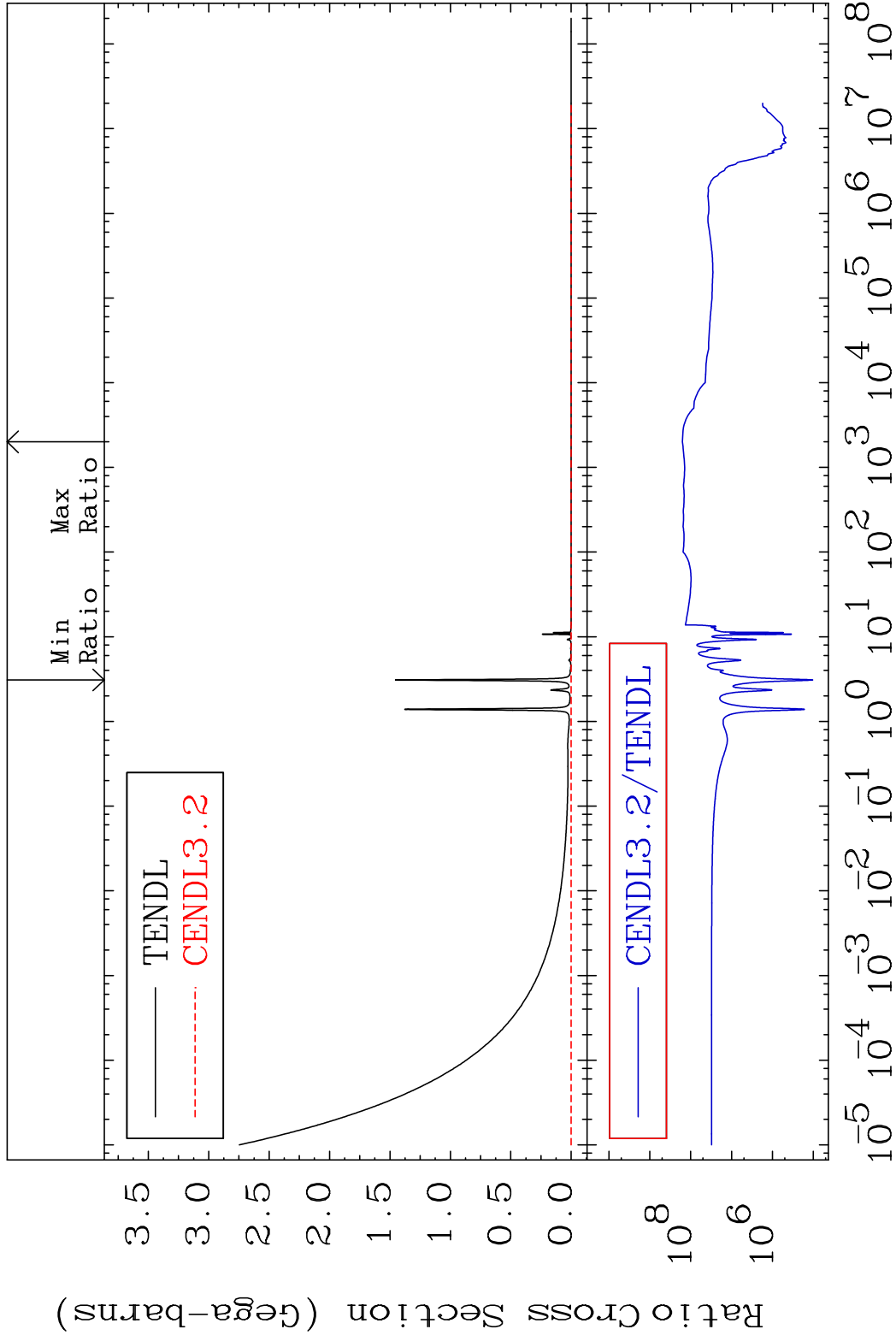


45

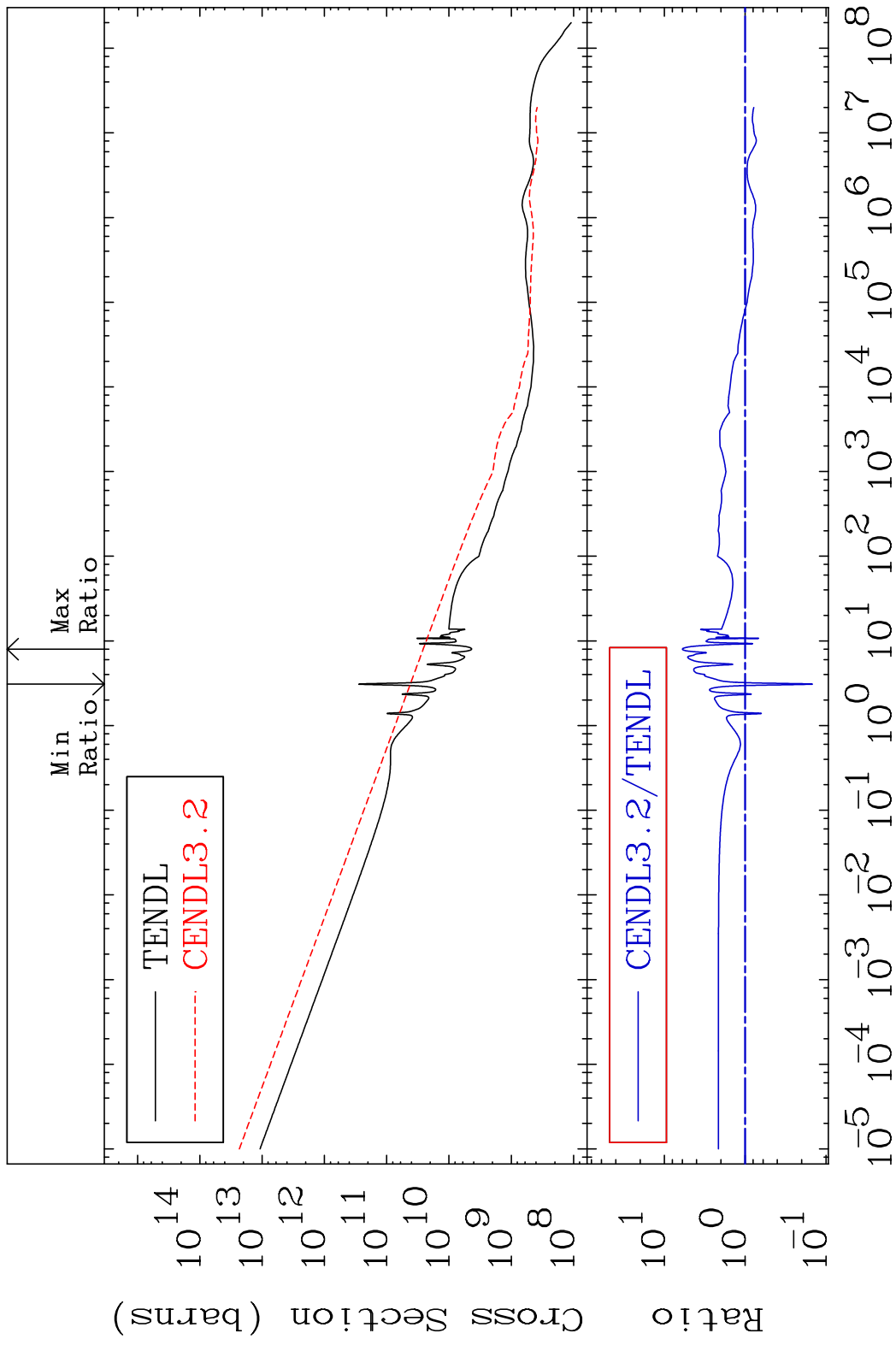
Incident Energy (eV) 94-Pu-237

MAT 9431

Total photon (eV-barns) 94-Pu-237
Cross Section 9999. To 9999. %



MAT 9431 Total kinematic kerma (high limit) 94-Pu-237
 Cross Section -85.33 To 499.8 %

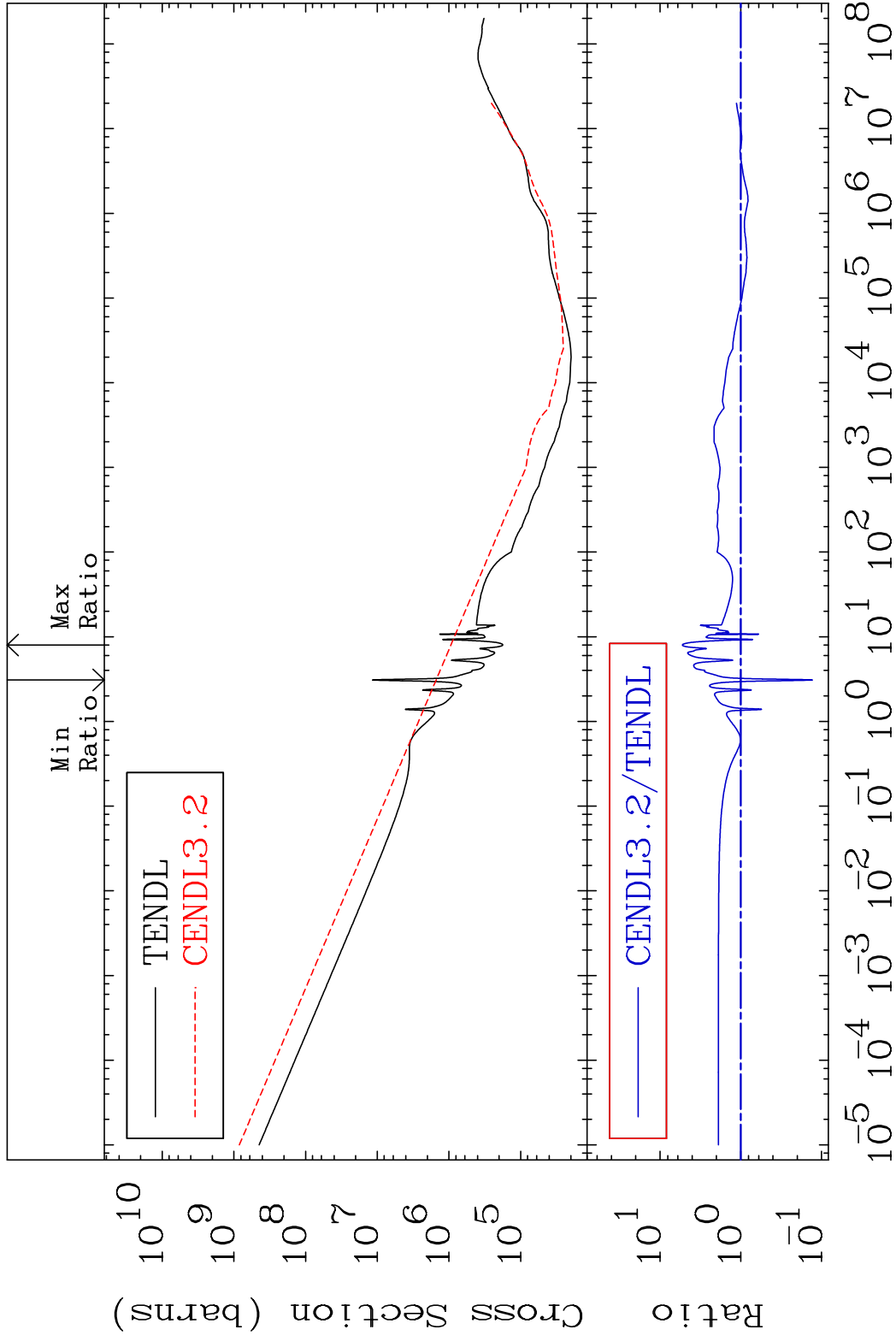


MAT 9431

Dpa total (eV-barns)

94-Pu-237

Cross Section -87.07 To 428.9 %

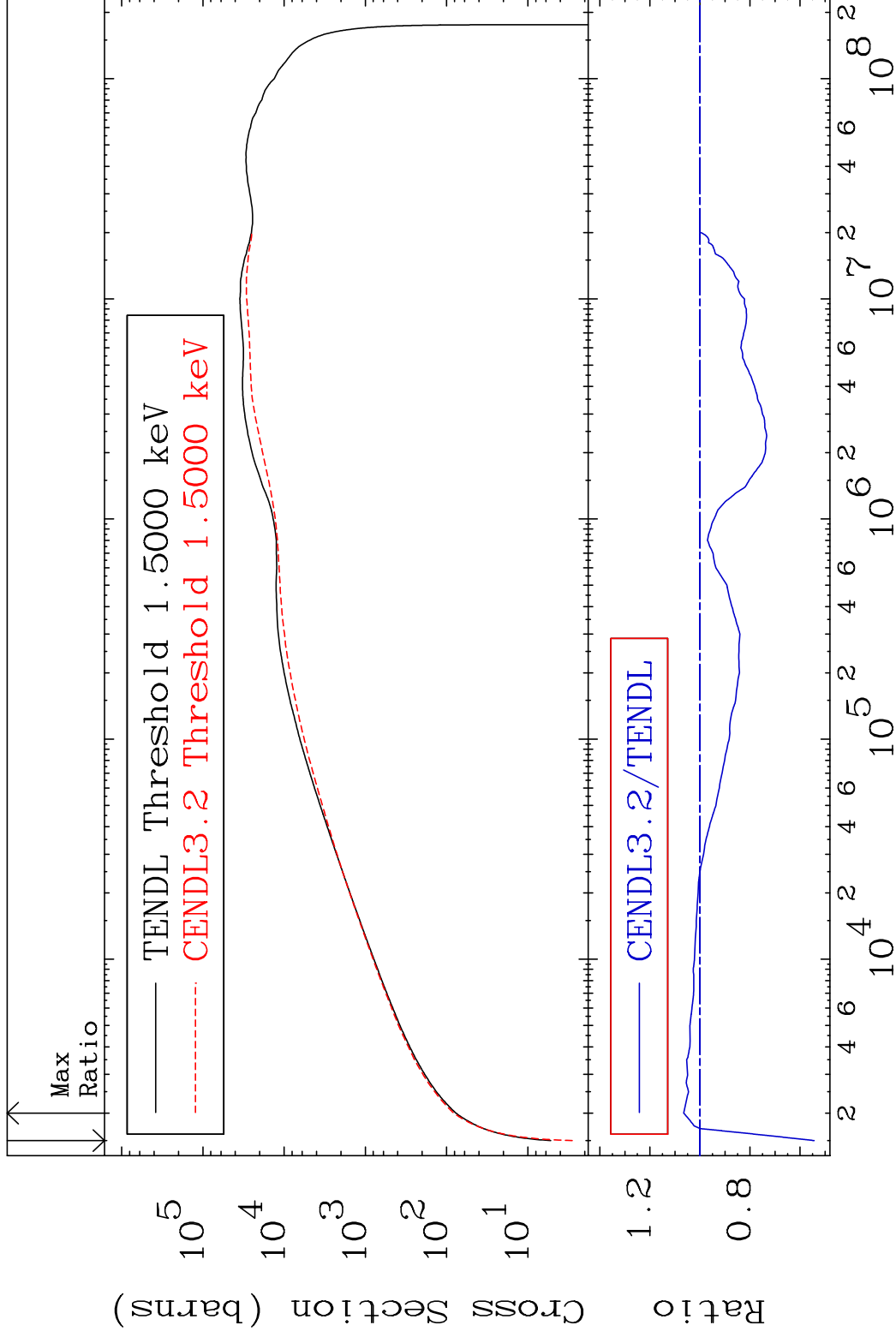


MAT 9431

Dpa elastic (mt2)

94-Pu-237

Cross Section -45.60 To 6.520 %

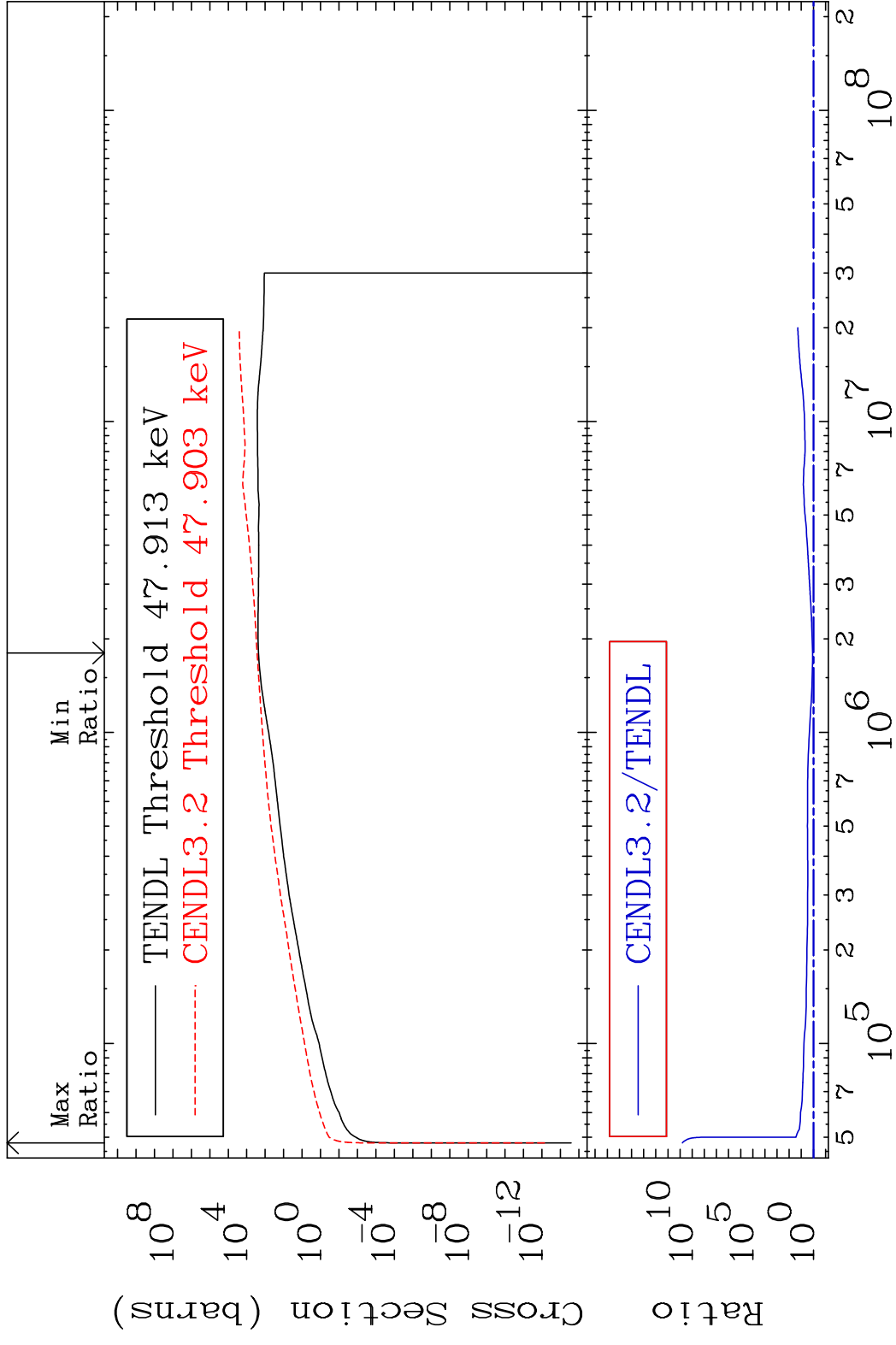


49

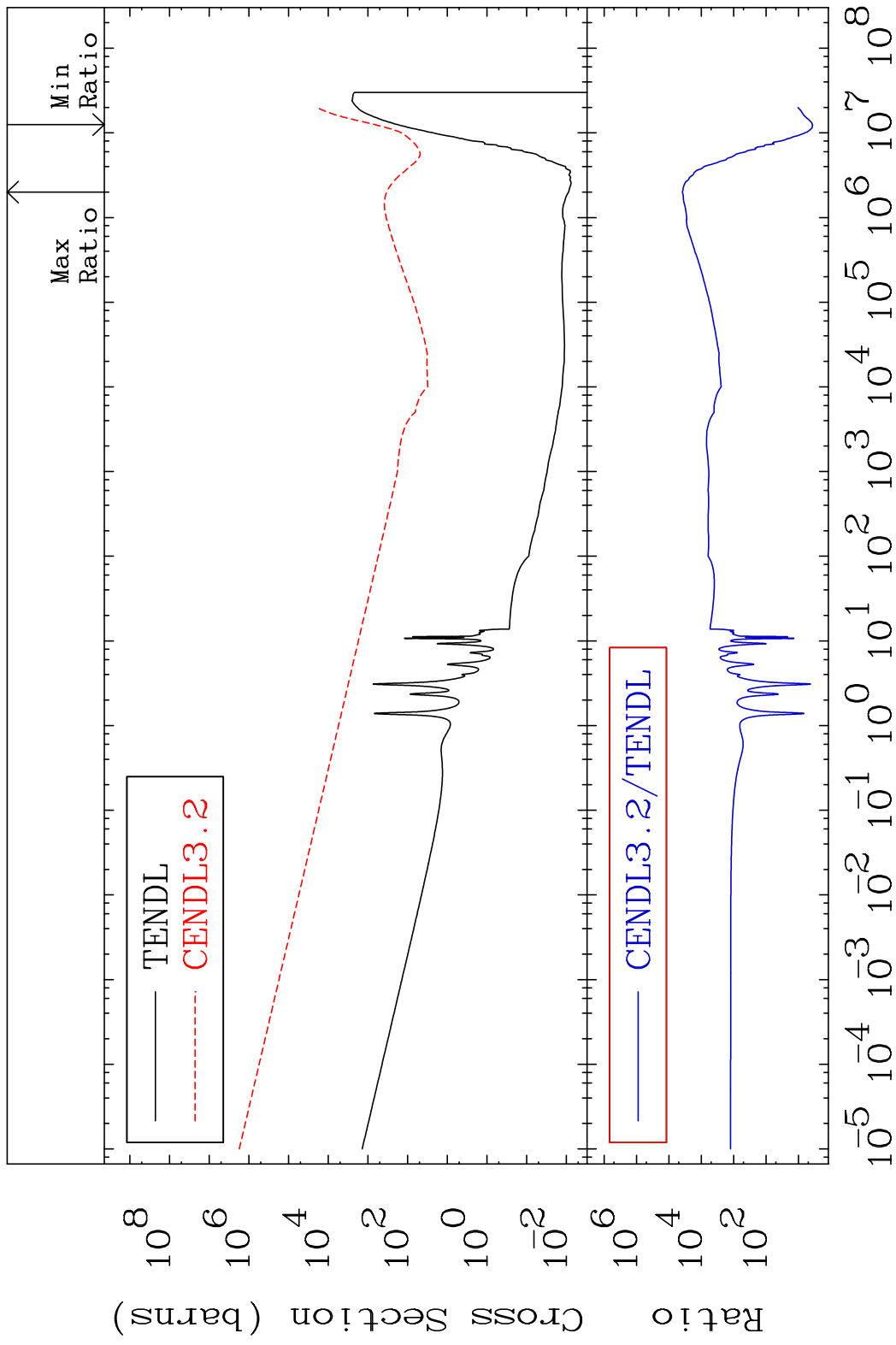
Incident Energy (eV)

94-Pu-237

MAT 9431 Dpa inelastic (mt51-91) 94-Pu-237
 Cross Section 17.73 To 9999. %



MAT 9431 Dpa disappearance (mt102 -120) 94-Pu-237
 Cross Section 270.1 To 9999. %

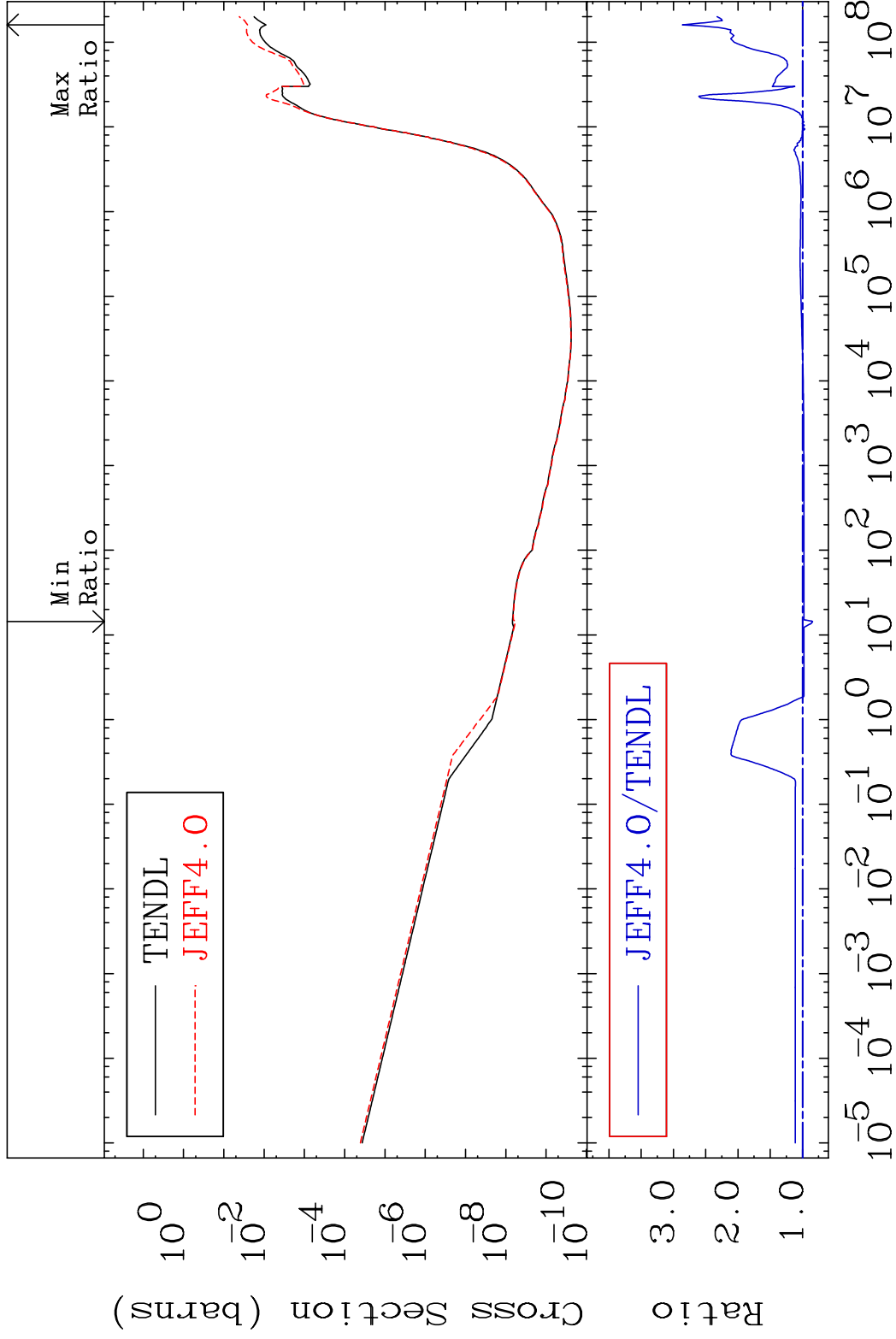


MAT 9431

He-4 Production

94-Pu-237

Cross Section -15.57 To 186.2 %



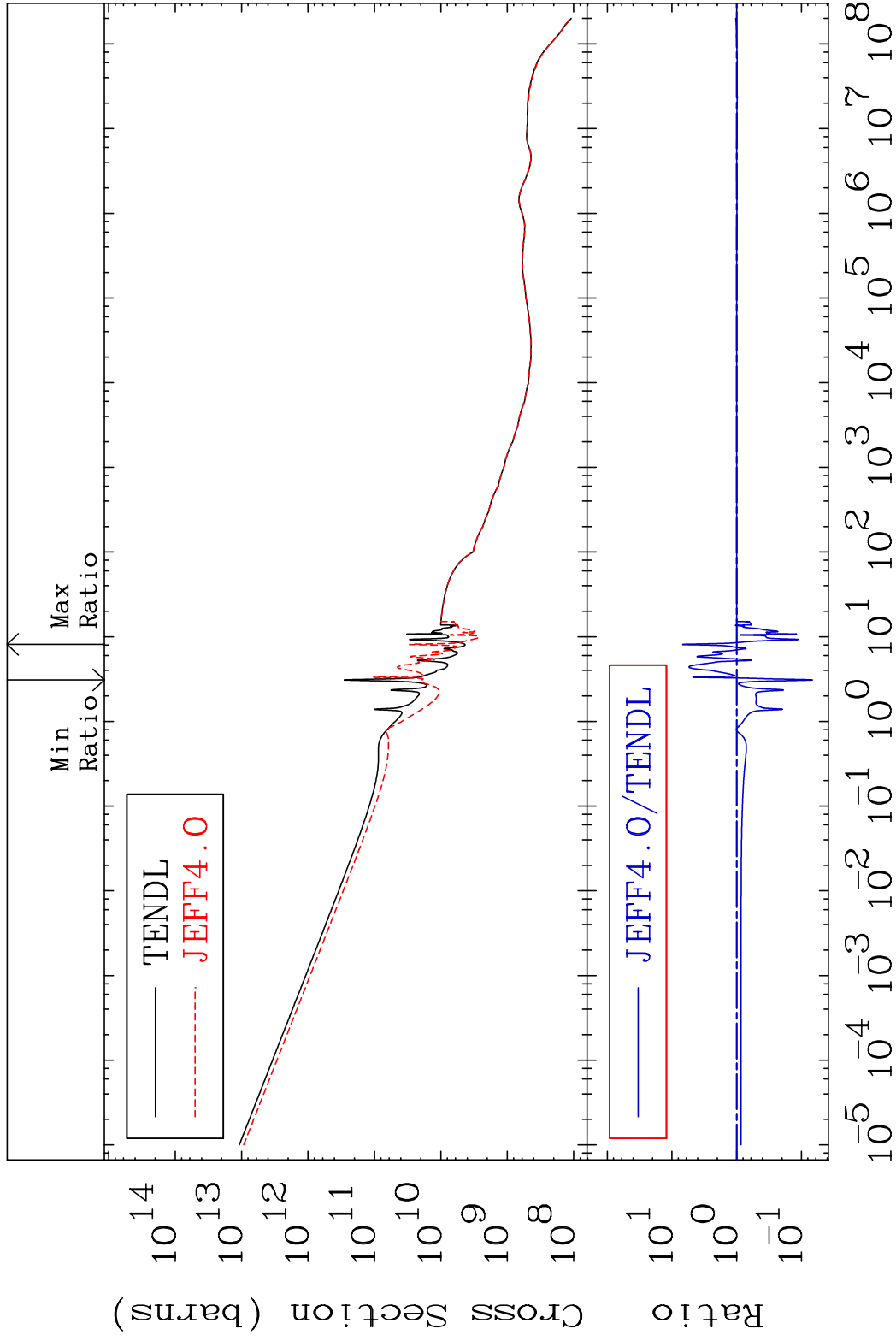
52

Incident Energy (eV)

94-Pu-237

MAT 9431

Kerma total (eV-barns) 94-Pu-237
Cross Section -93.27 To 592.0 %



53

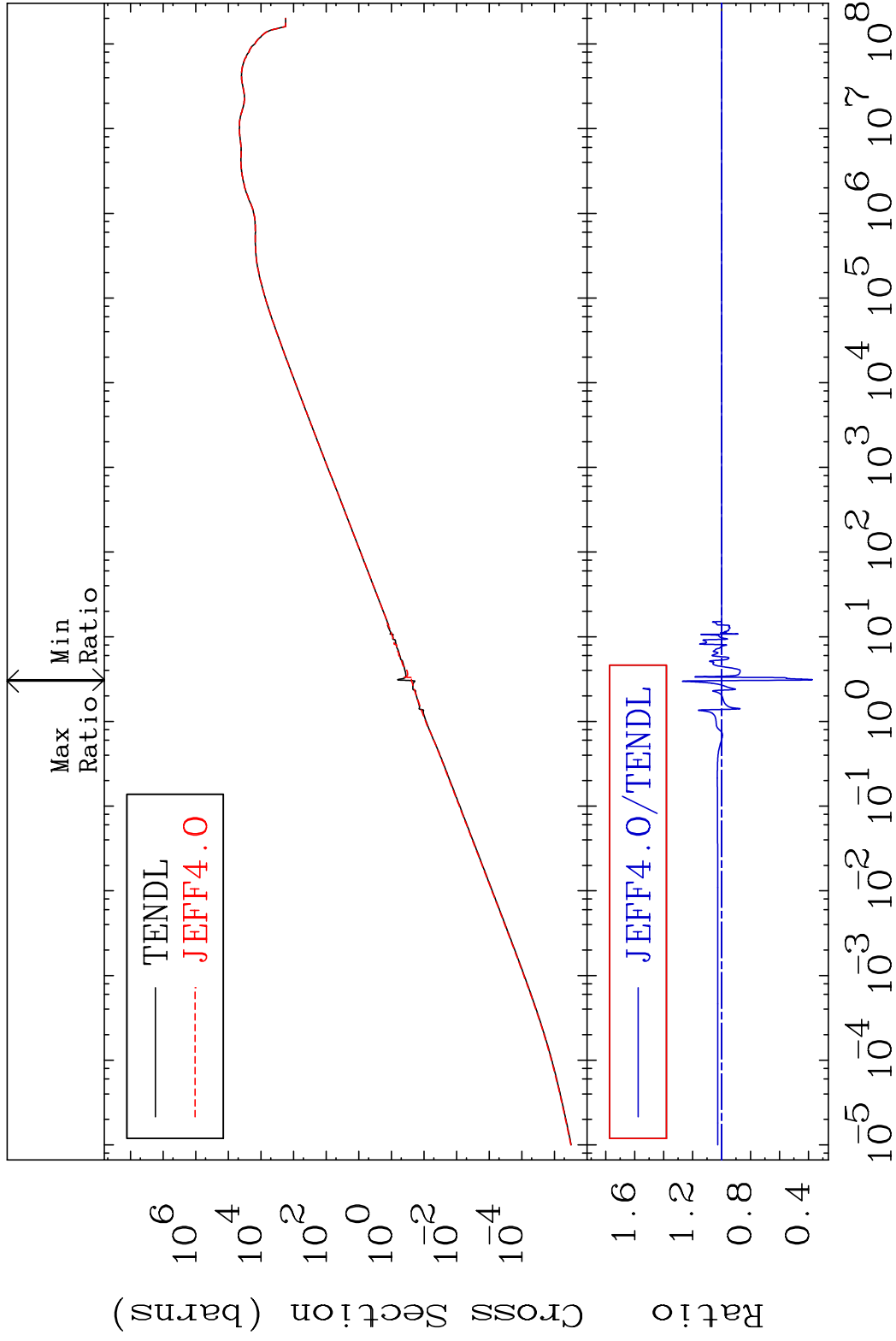
Incident Energy (eV) 94-Pu-237

MAT 9431

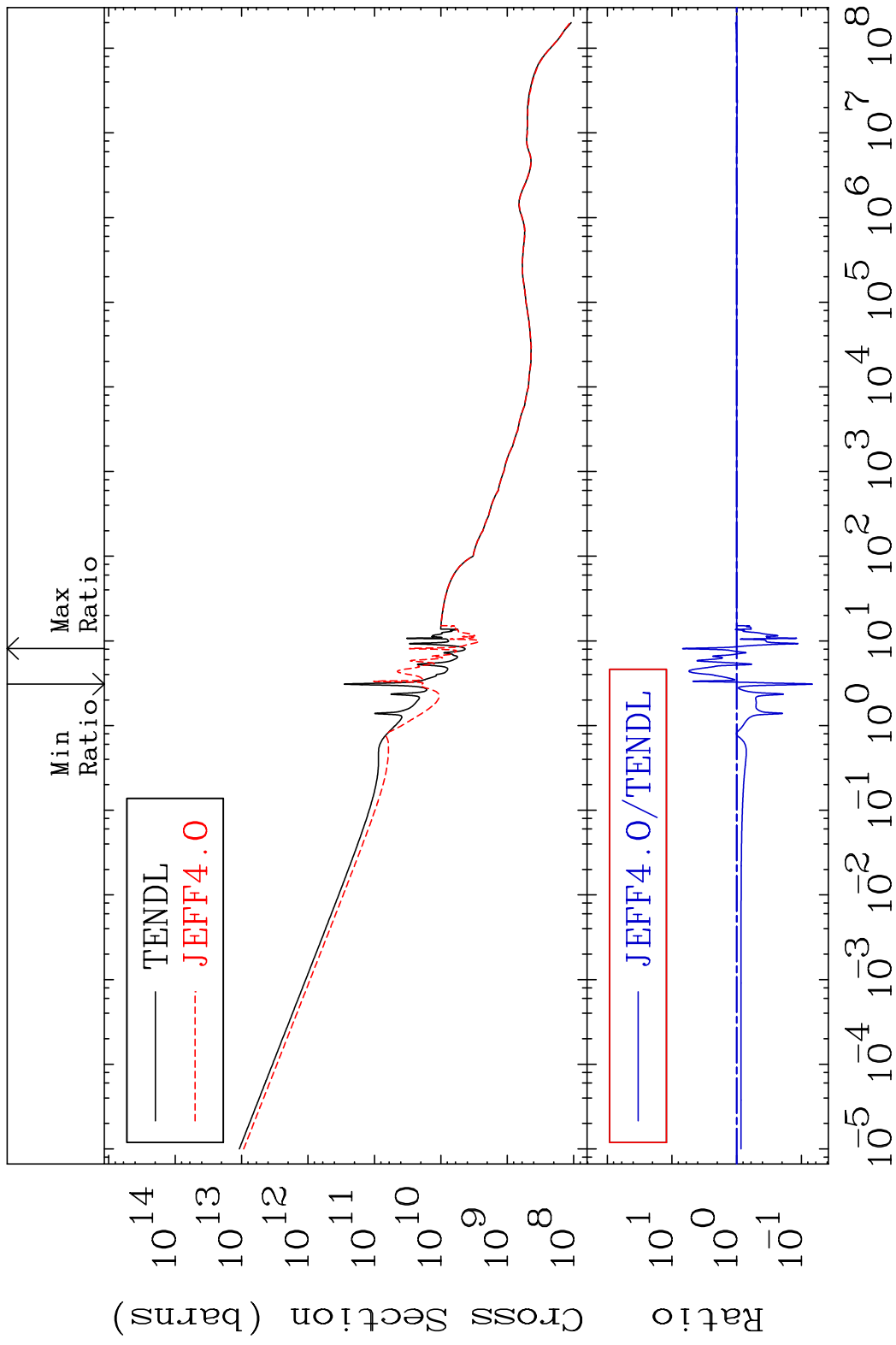
Kerma elastic

94-Pu-237

Cross Section -62.87 To 27.07 %

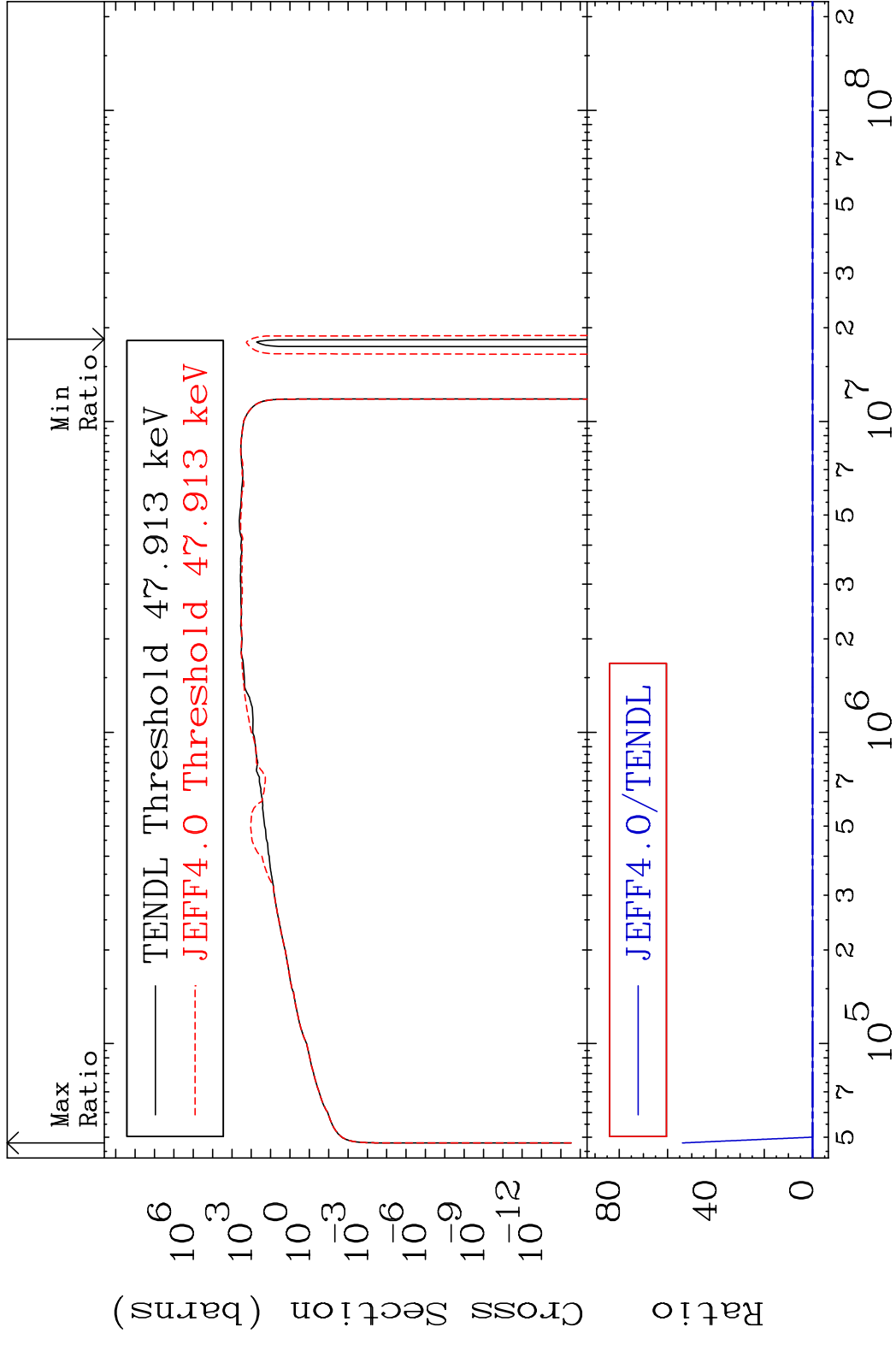


MAT 9431 Kerma non-elastic (all but mt2) 94-Pu-237
 Cross Section -93.27 To 592.0 %

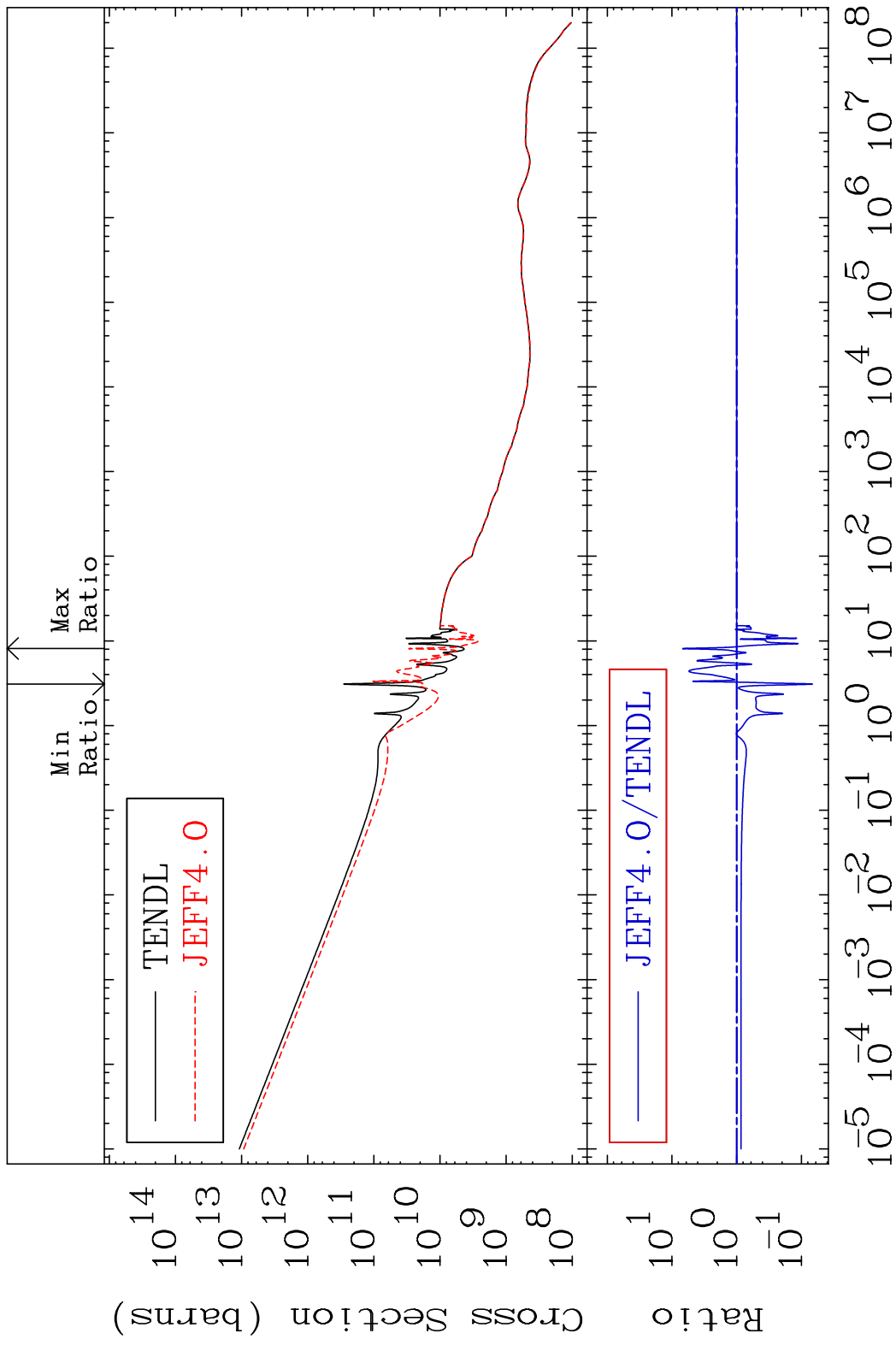


55 Incident Energy (eV) 94-Pu-237

MAT 9431 Kerma inelastic (mt51-91) 94-Pu-237
 Cross Section -1293. To 9999. %

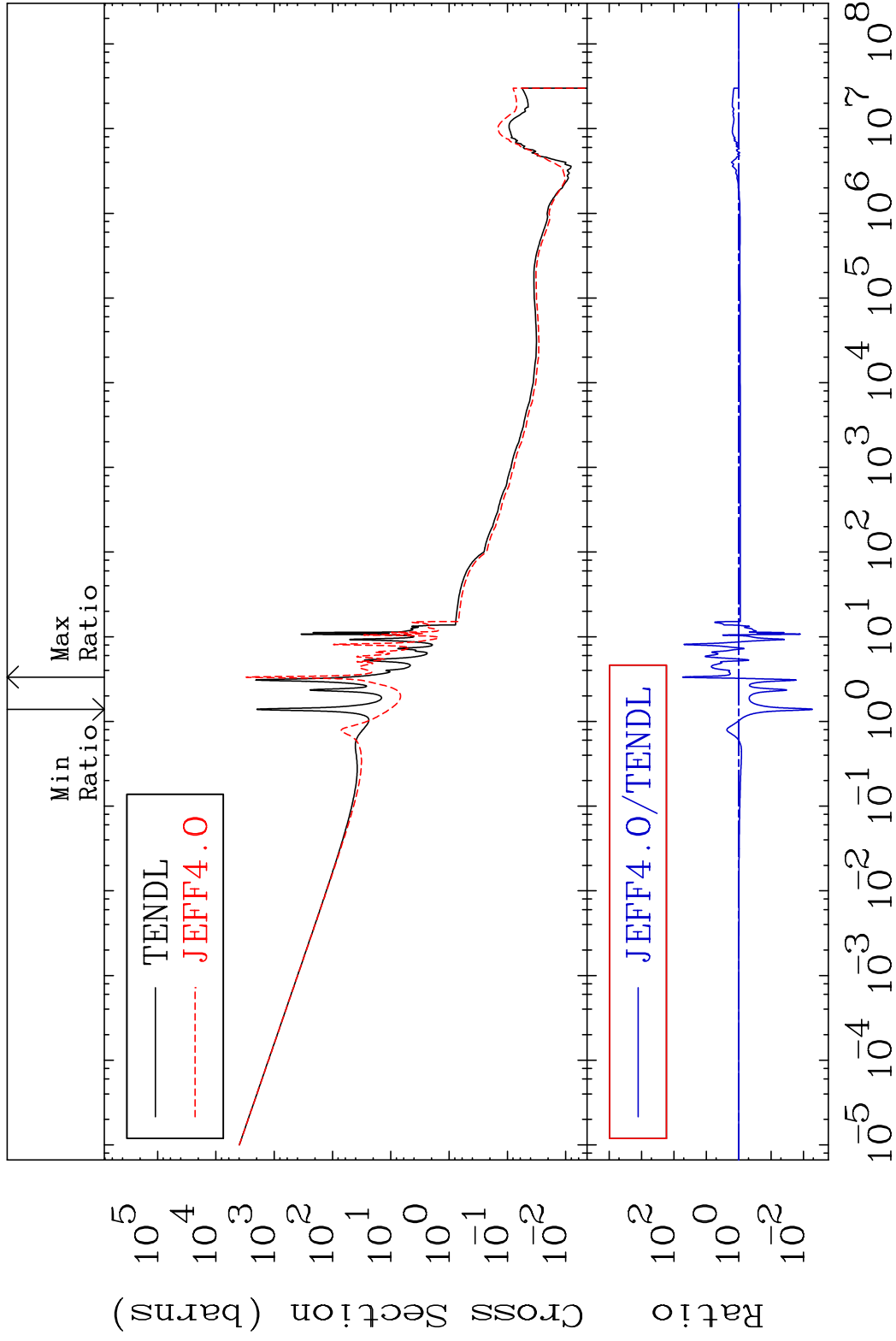


MAT 9431 Kerma fission (mt18 or mt19-20-21-38) 94-Pu-237
 Cross Section -93.27 To 592.0 %



MAT 9431

Kerma capture (mt102) 94-Pu-237
Cross Section -99.47 To 5413. %



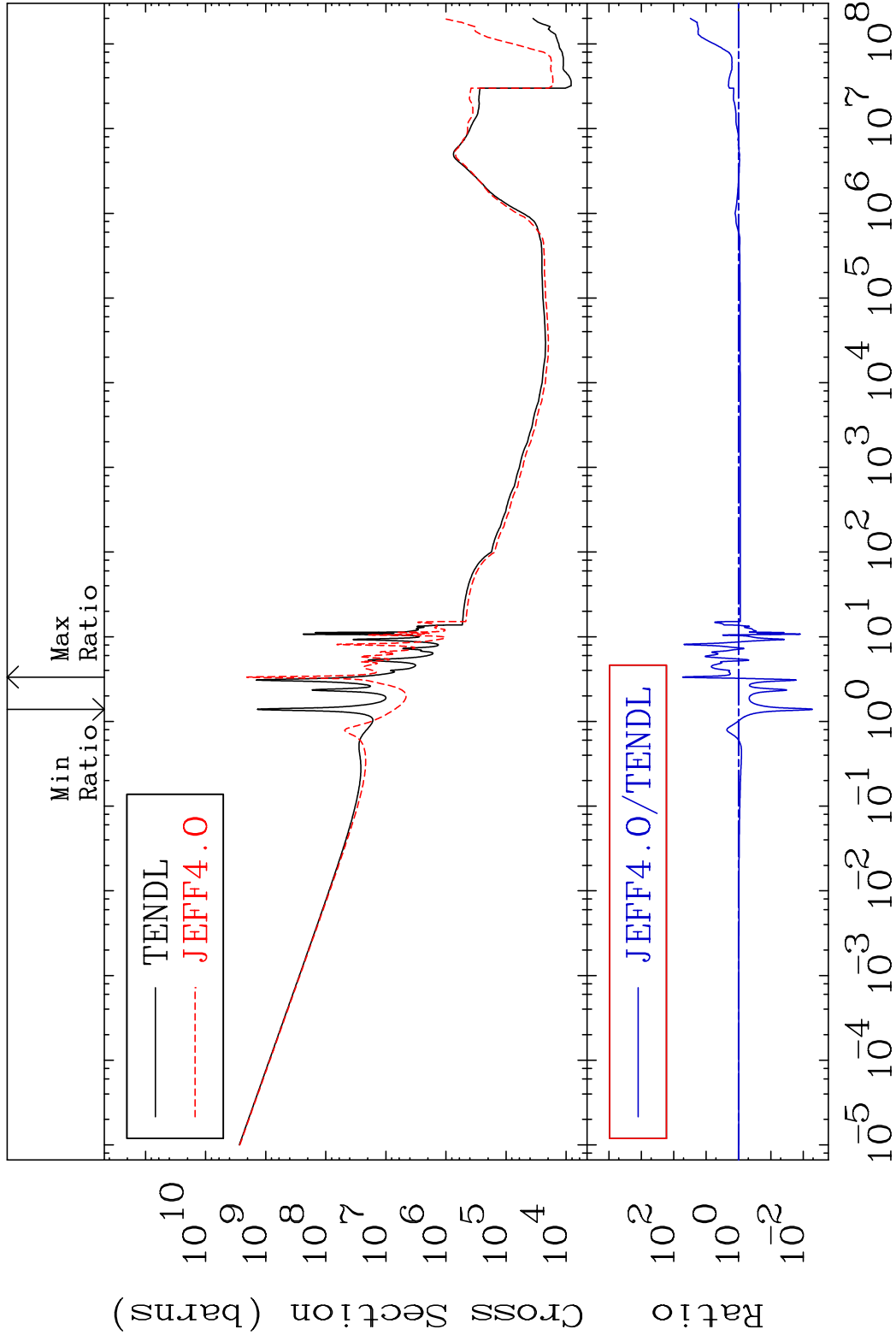
58

Incident Energy (eV)

94-Pu-237

MAT 9431

Total photon (eV-barns) 94-Pu-237
Cross Section -99.48 To 5320. %

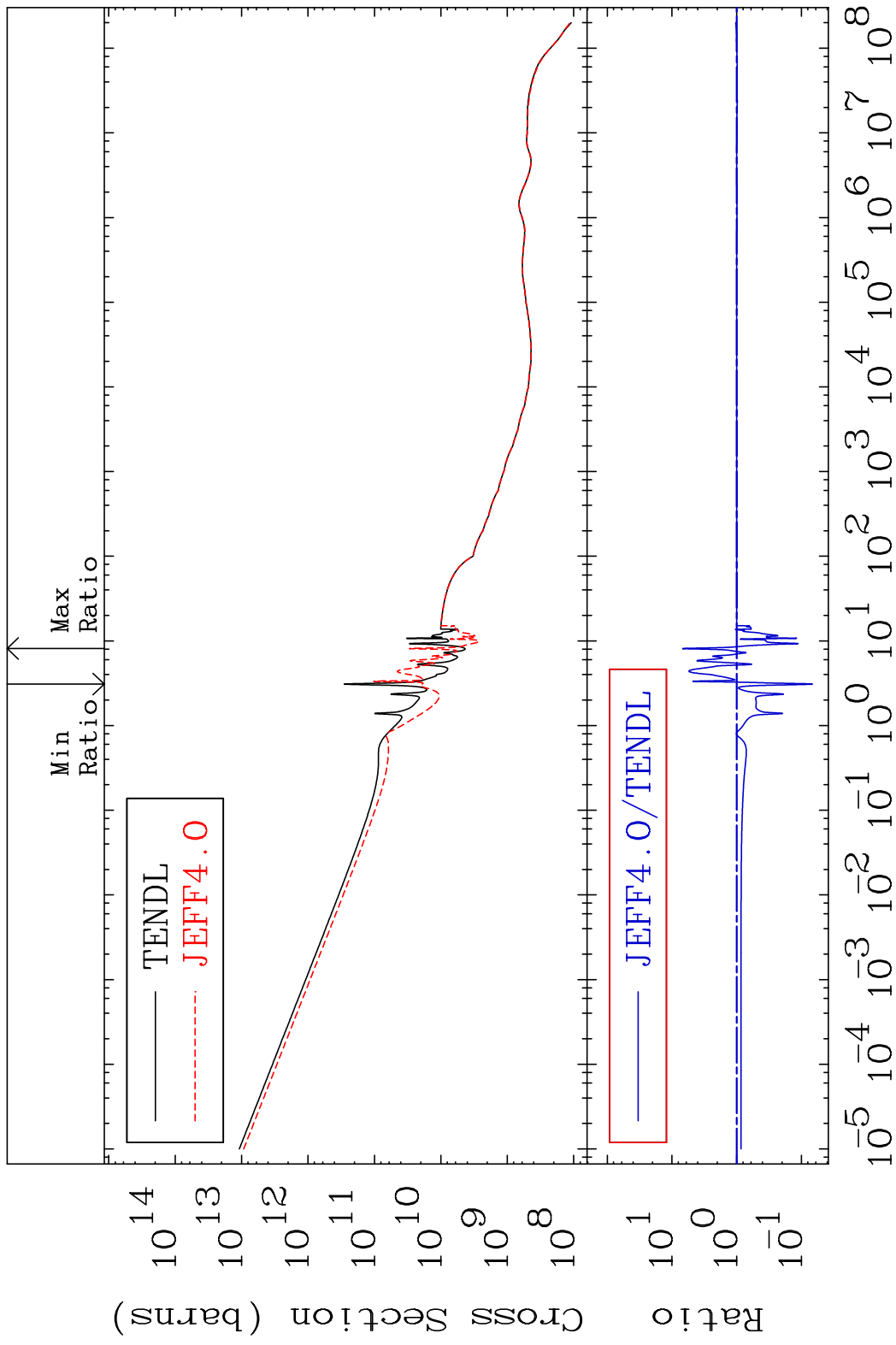


59

Incident Energy (eV)

94-Pu-237

MAT 9431 Total kinematic kerma (high limit) 94-Pu-237
 Cross Section -93.27 To 592.0 %

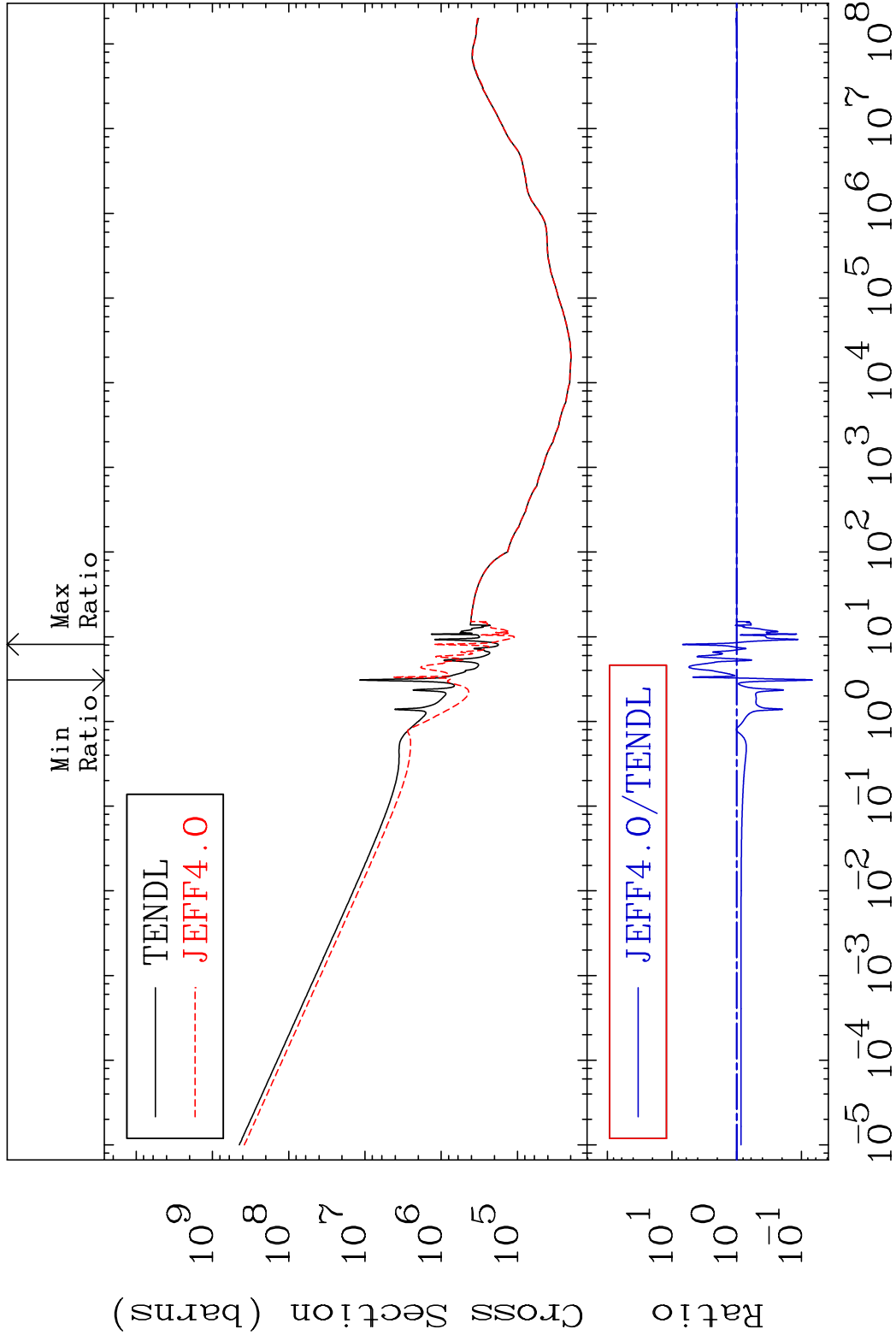


MAT 9431

Dpa total (eV-barns)

94-Pu-237

Cross Section -93.27 To 592.0 %



61

Incident Energy (eV)

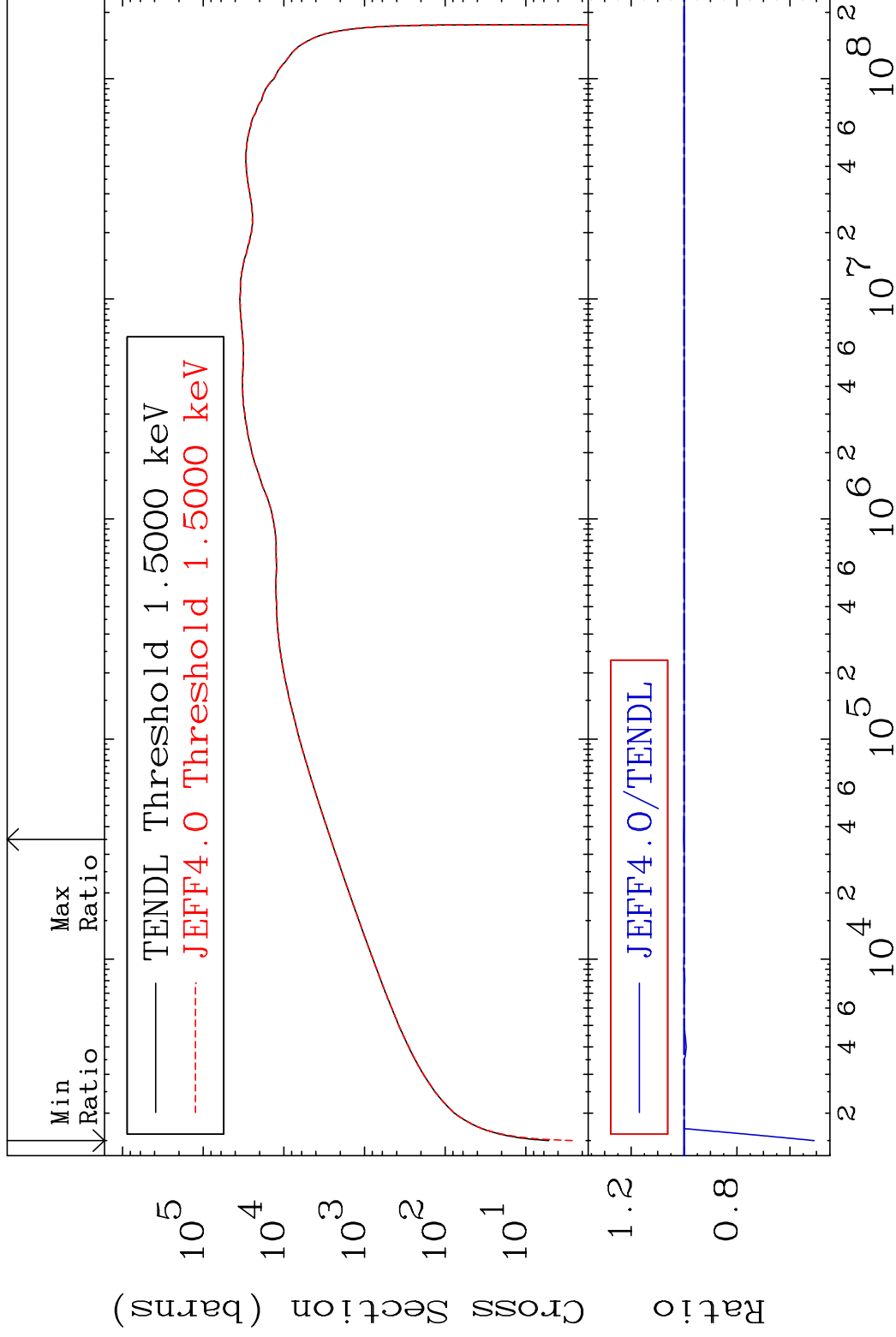
94-Pu-237

MAT 9431

Dpa elastic (mt2)

94-Pu-237

Cross Section -49.12 To 0.151 %

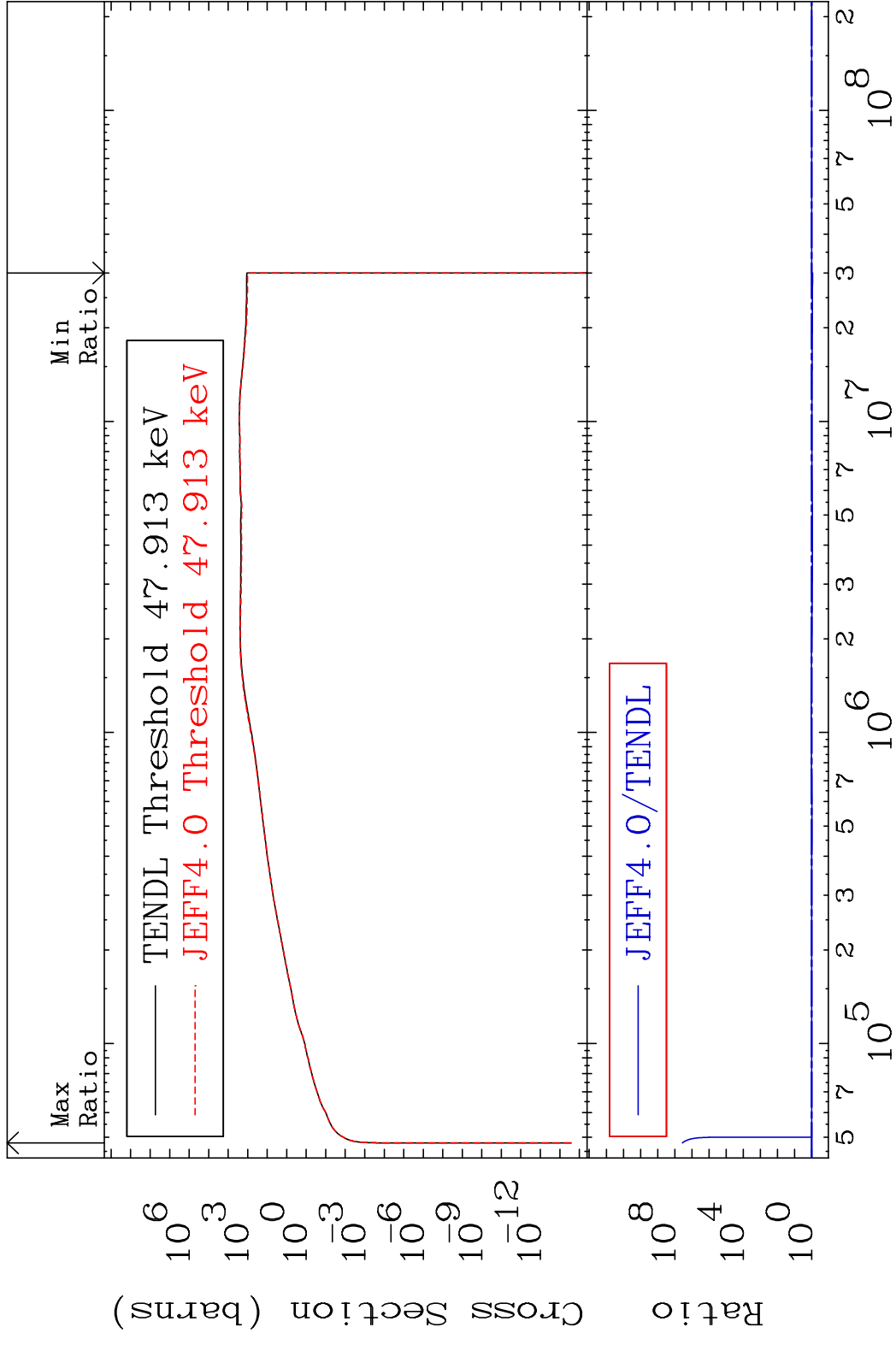


62

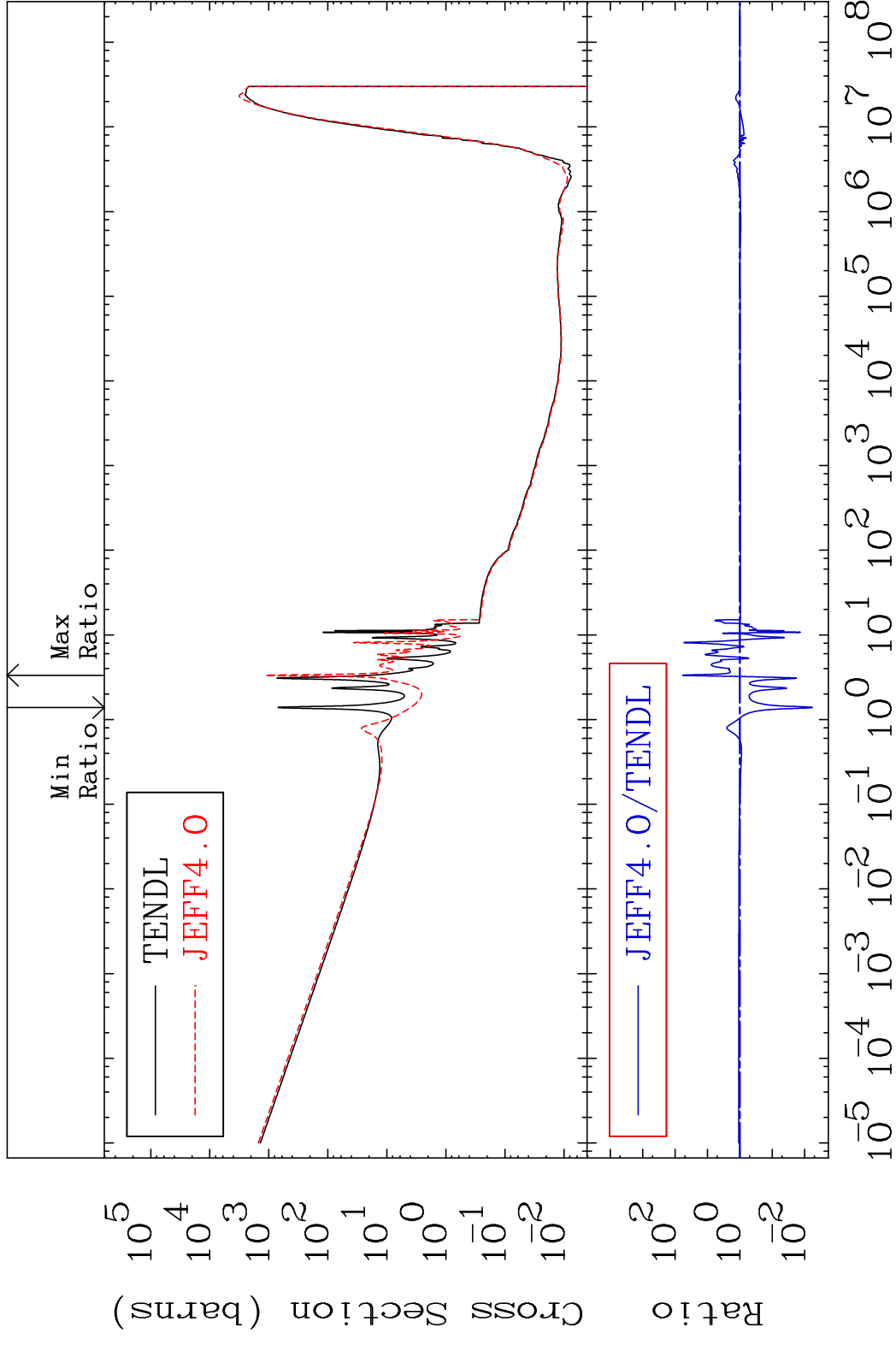
Incident Energy (eV)

94-Pu-237

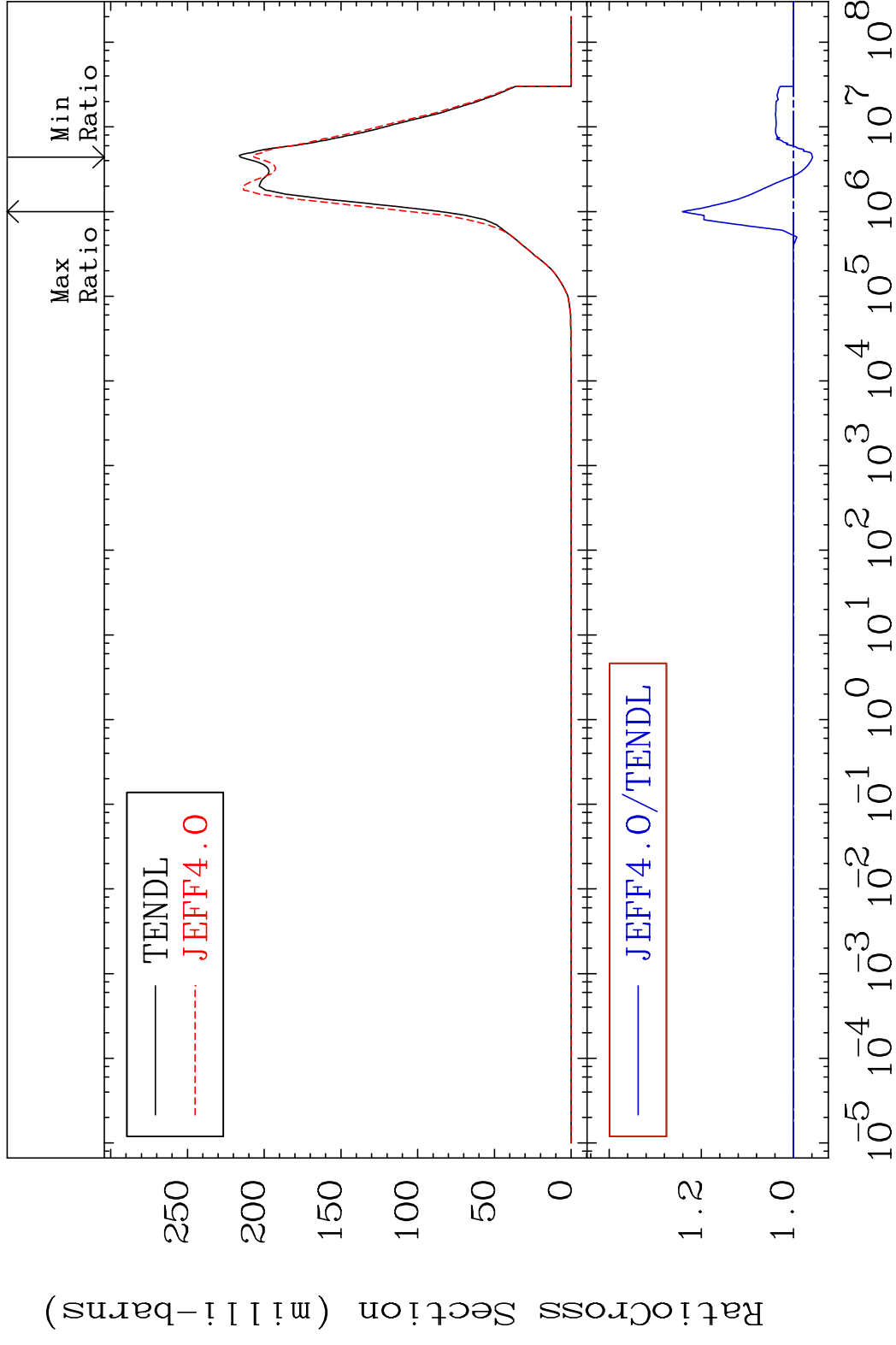
MAT 9431 Dpa inelastic (mt51-91) 94-Pu-237
 Cross Section -10.10 To 9999. %

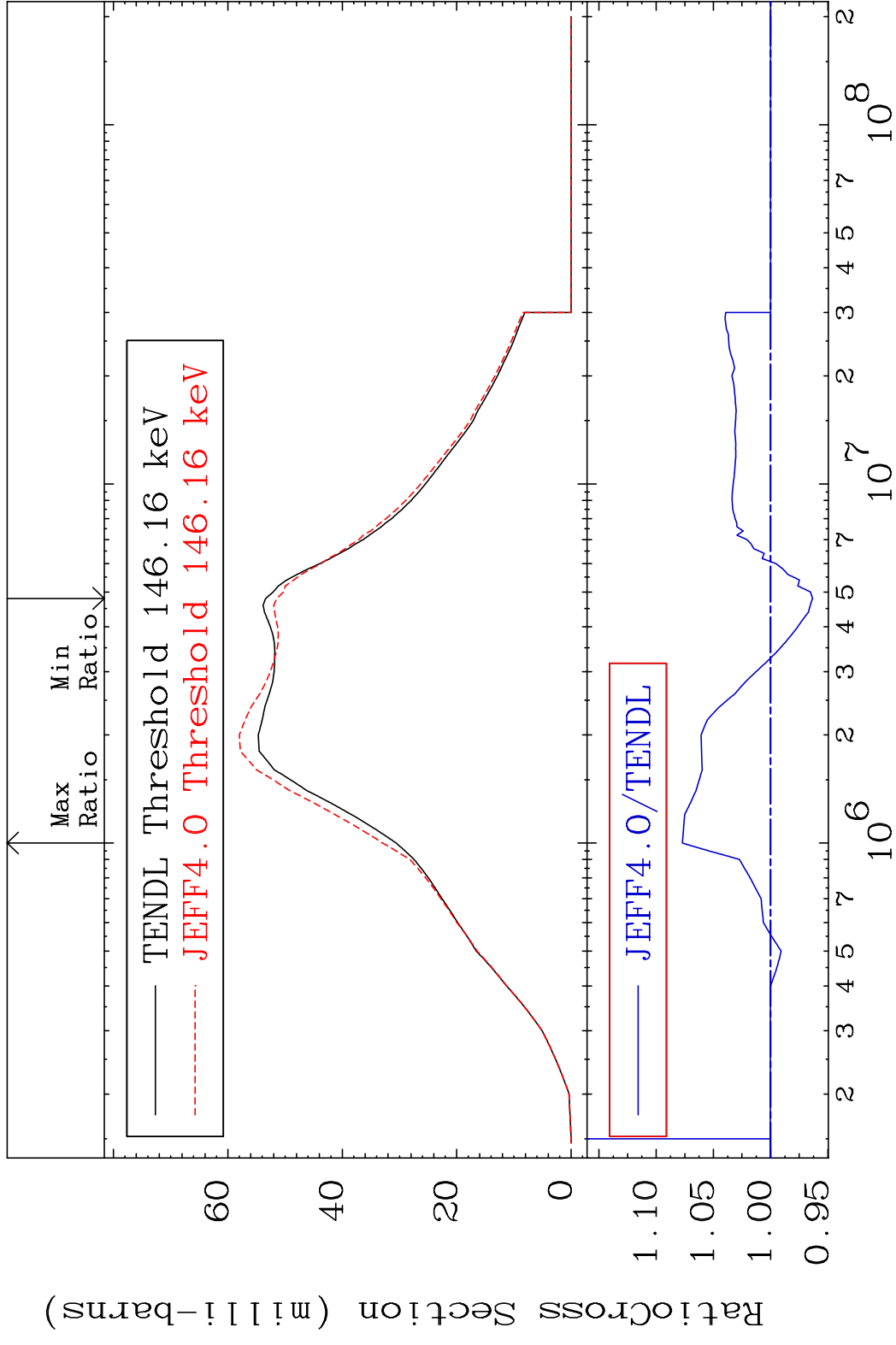


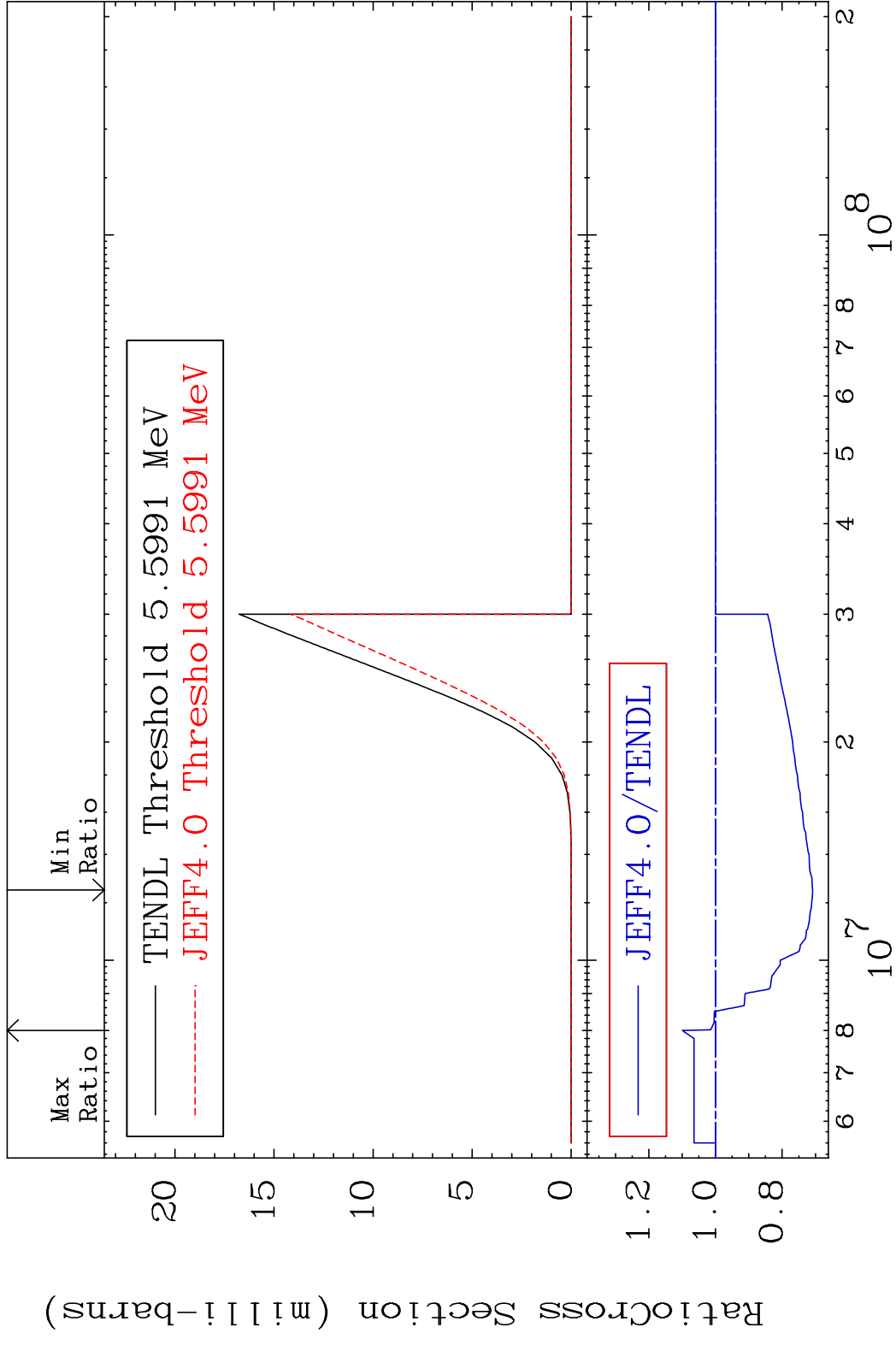
MAT 9431 Dpa disappearance (mt102 -120) 94-Pu-237
 Cross Section -99.43 To 5865. %

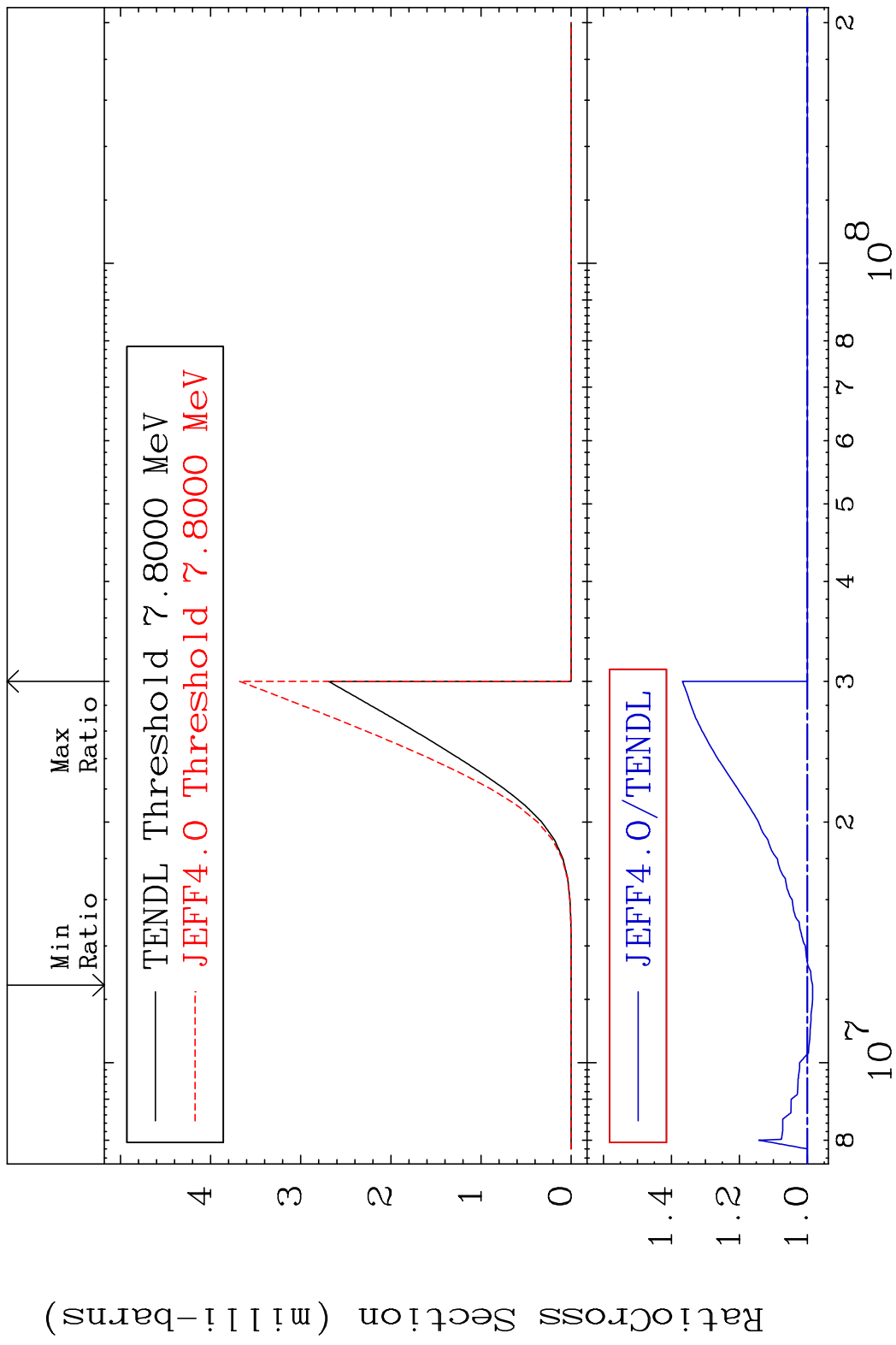


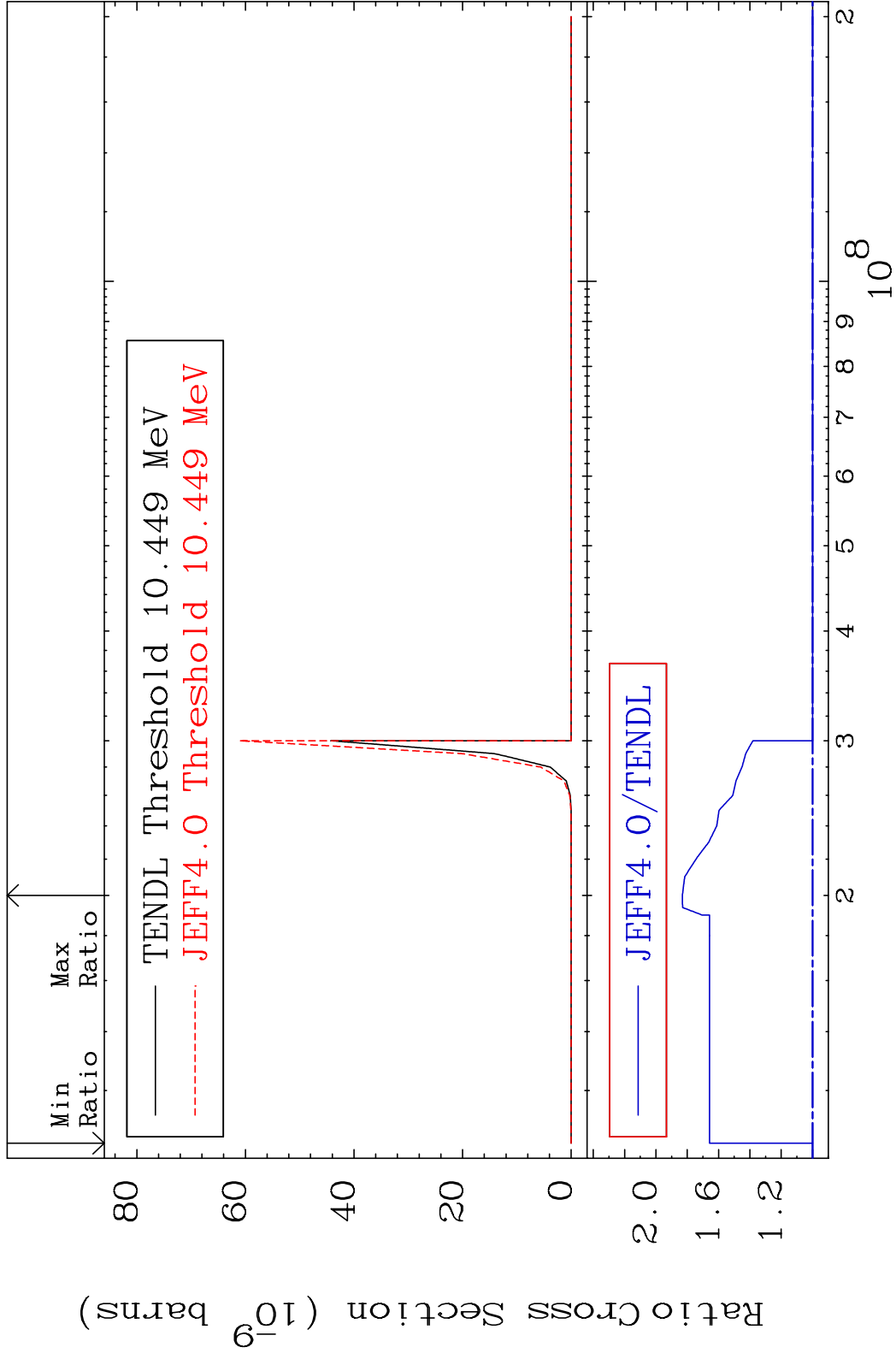
MAT 9431 Inelastic:94-Pu-237g 94-Pu-237
 Radionuclide Production Cross Section 24.12 %

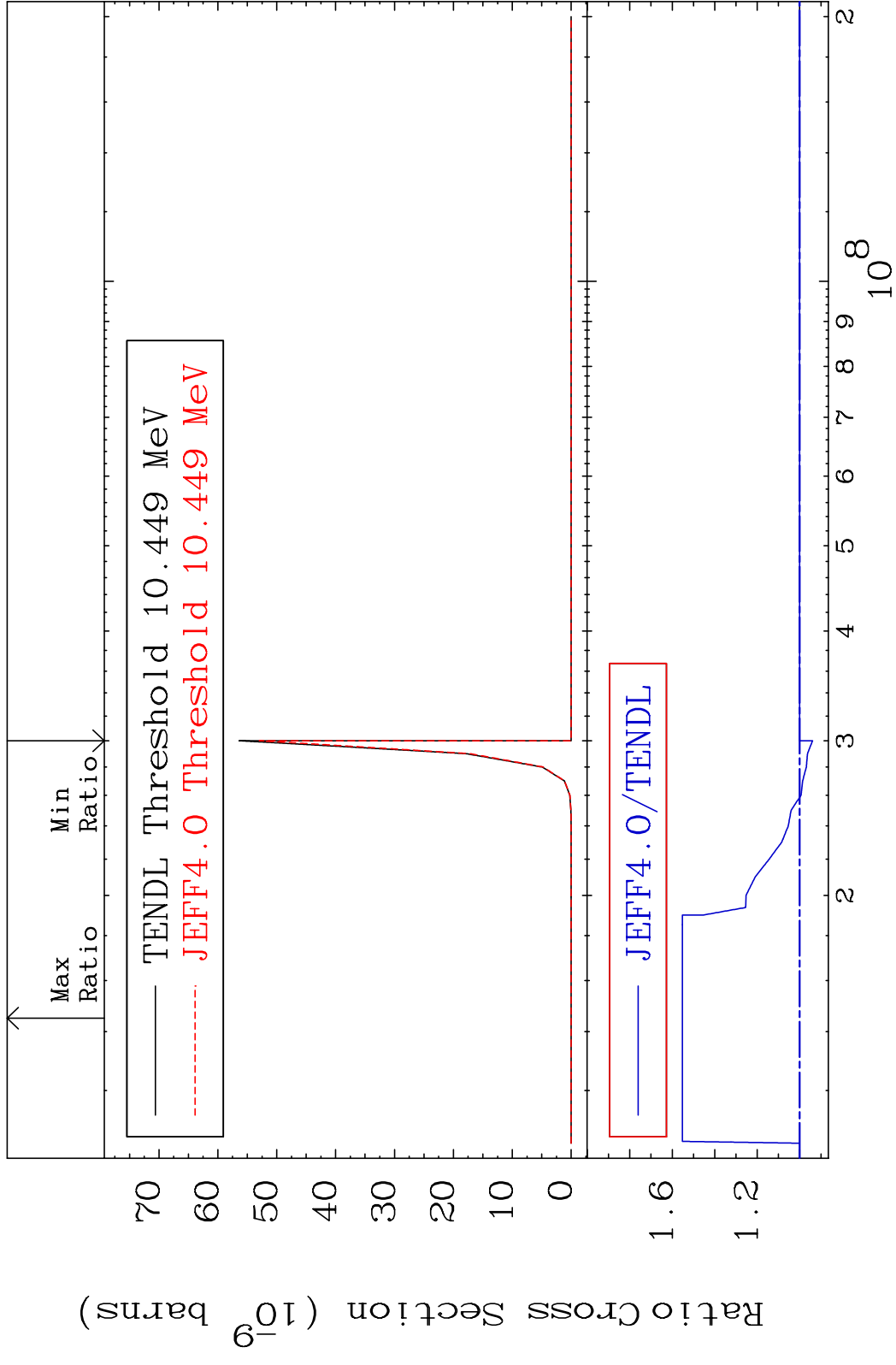




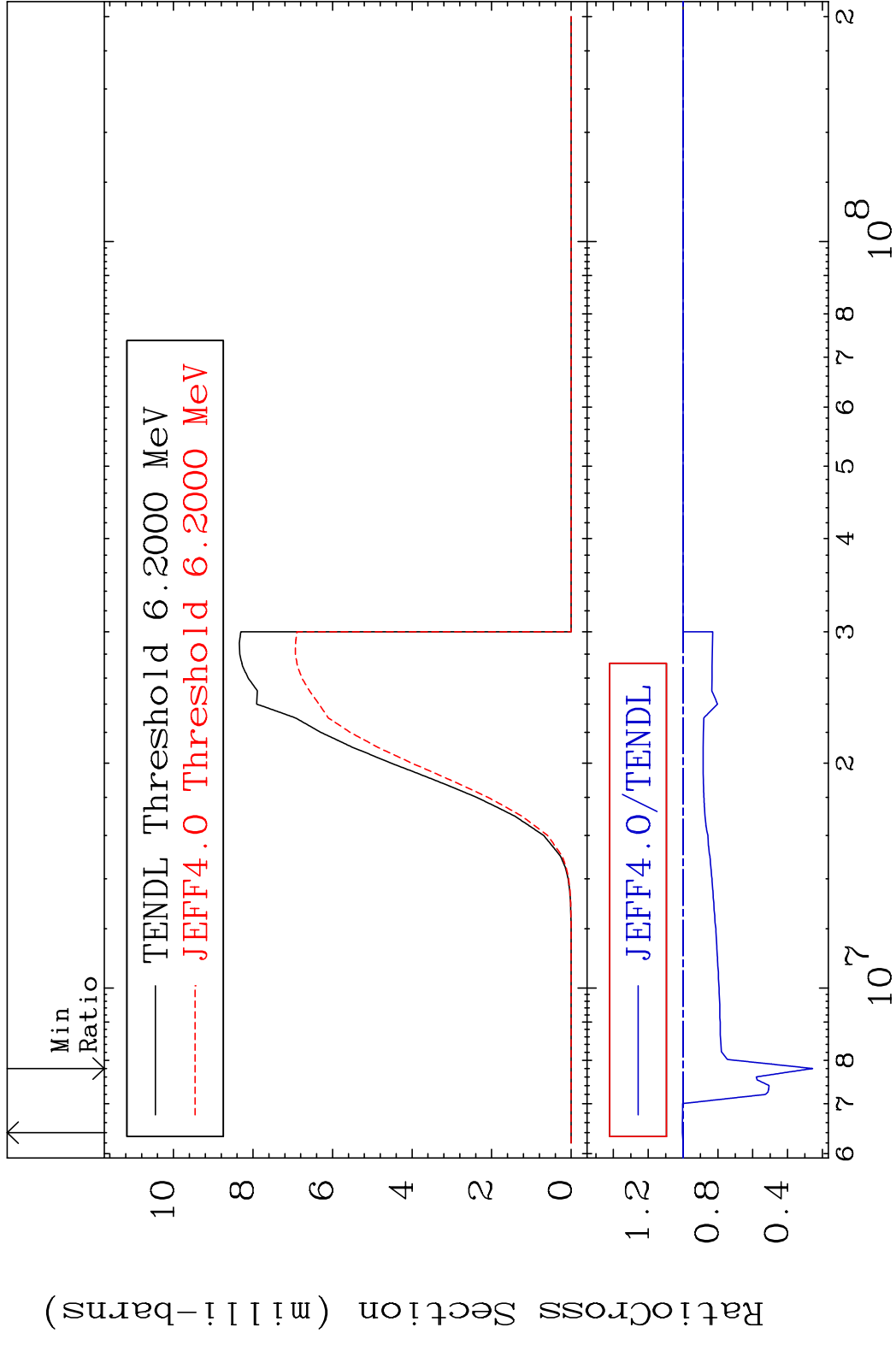




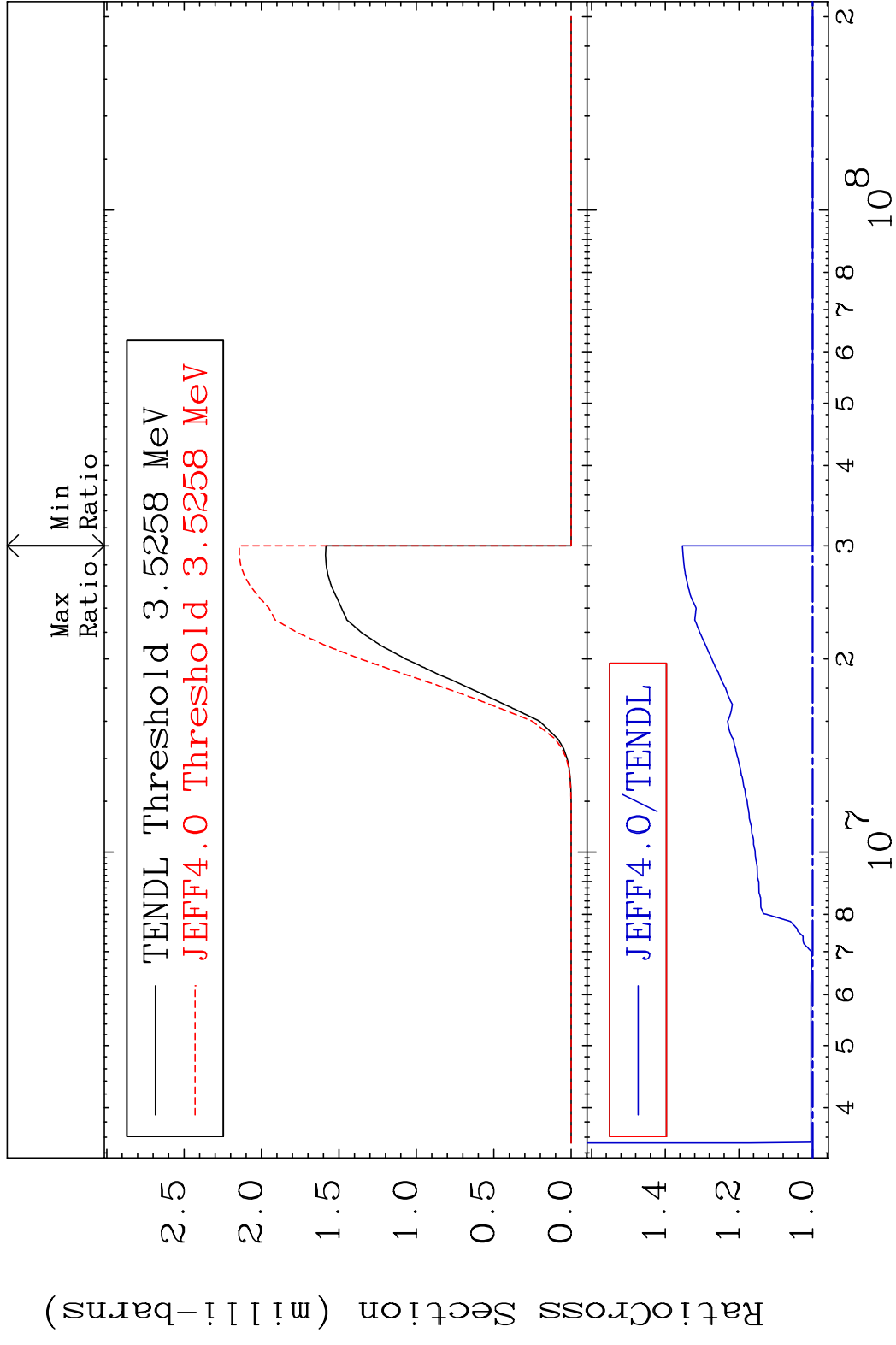




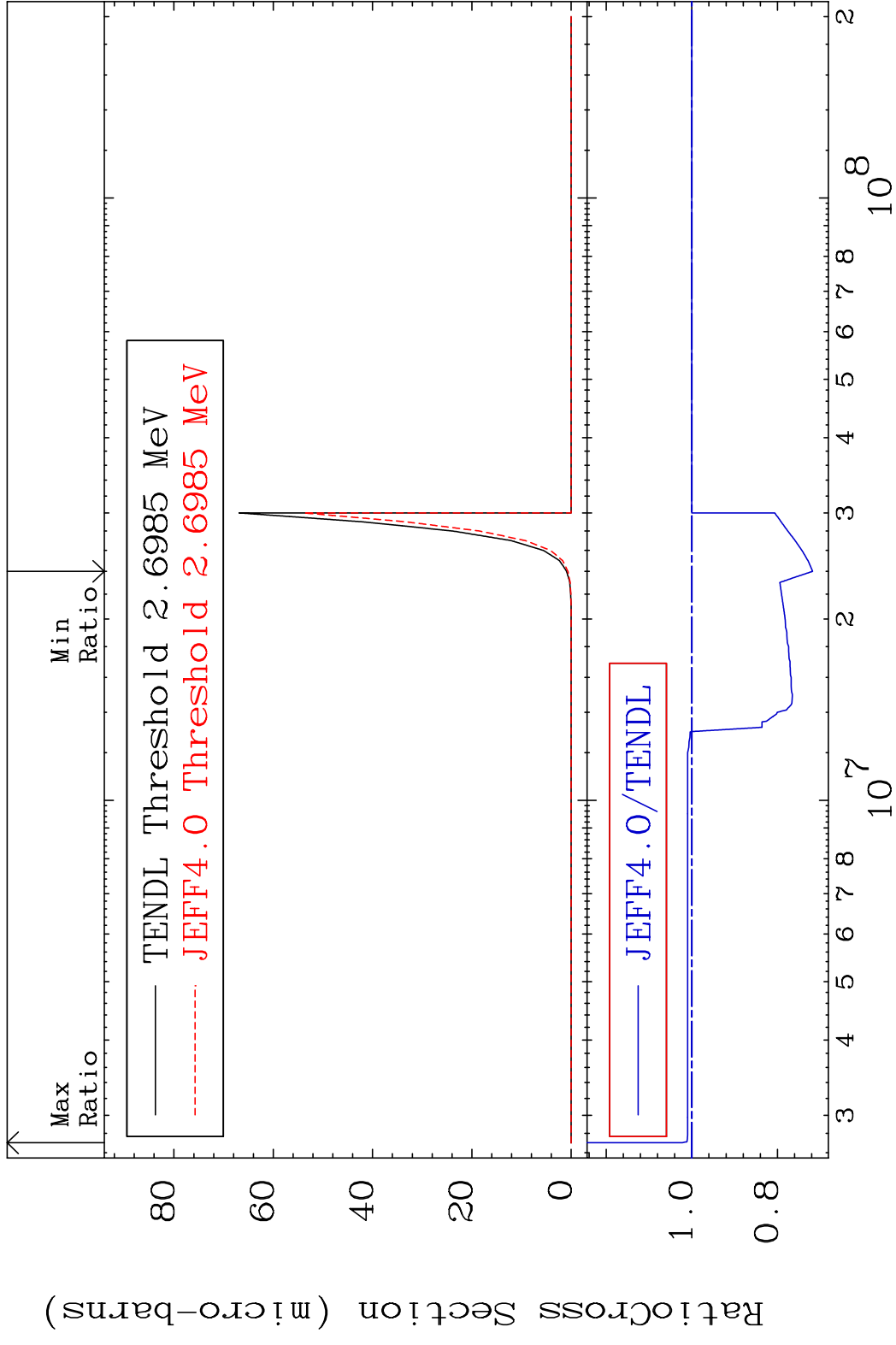
MAT 9431 (n,d):93-Np-236g 94-Pu-237
 Radionuclide Production Cross Section 0.399 %



MAT 9431 (n, d) : 93-Np-236m1 94-Pu-237
 Radionuclide Production Cross Section 35.34 %



MAT 9431 (n, He-3) : 92-U -235m1 94-Pu-237
 Radionuclide Production Cross Section 2.213 %



MAT 9431 (n,p) d:92-U -235g 94-Pu-237
 Radionuclide Production Cross Section 58.73 %

