

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

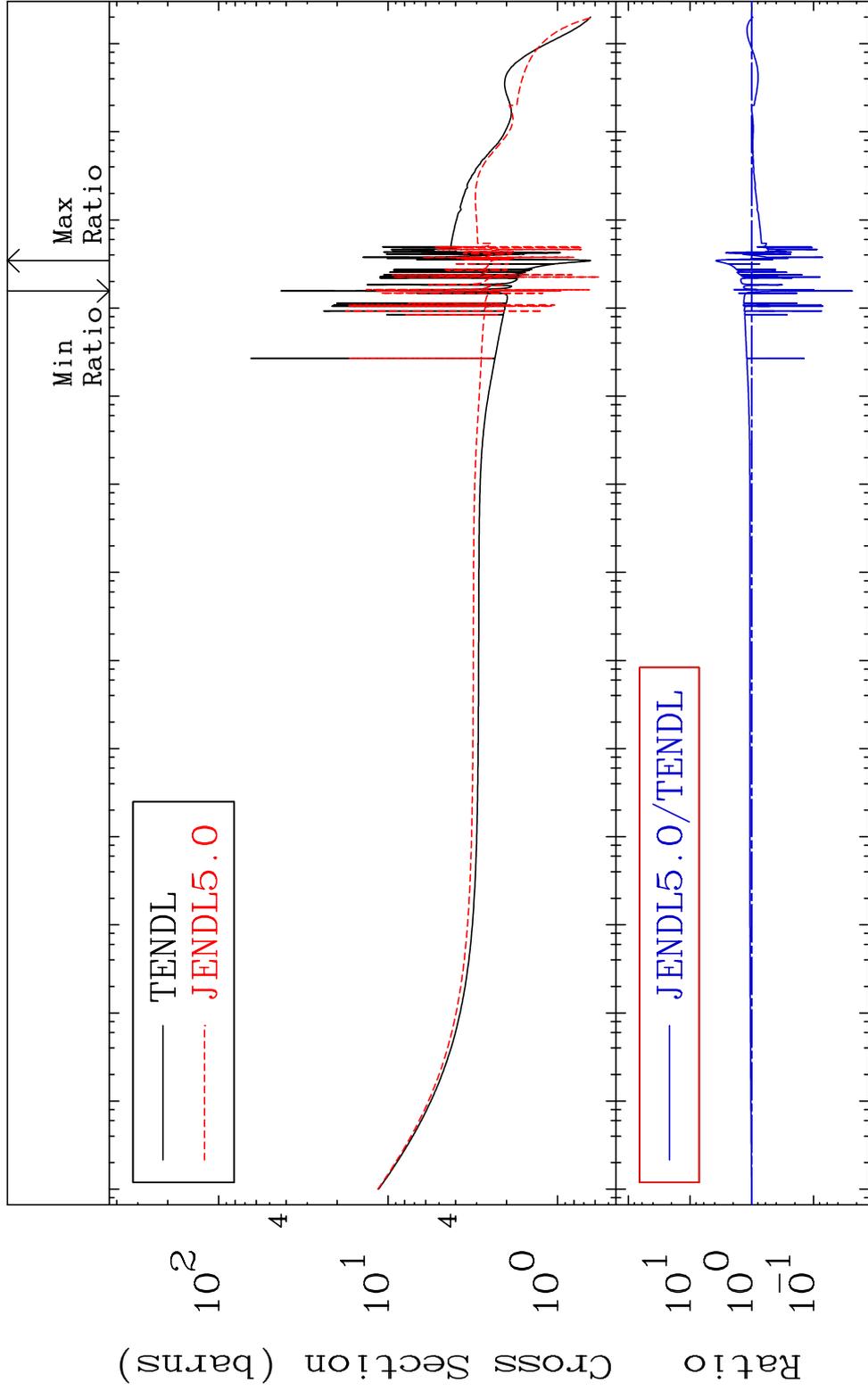
MAT 1525

Total

15-P -31

Cross Section

-97.67 To 281.7 %



1

Incident Energy (eV)

15-P -31

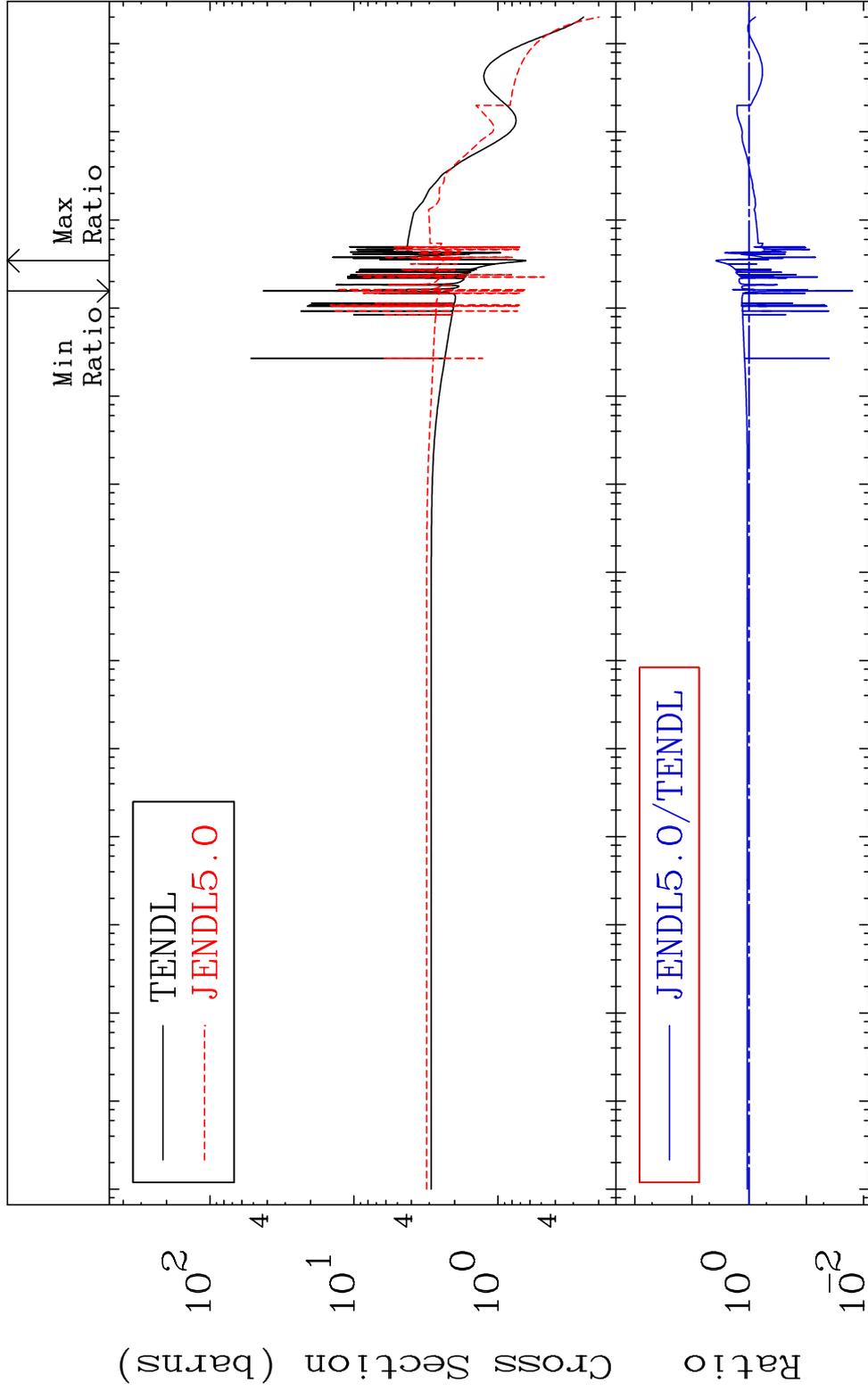
MAT 1525

Elastic

15-P -31

Cross Section

-98.43 To 281.8 %

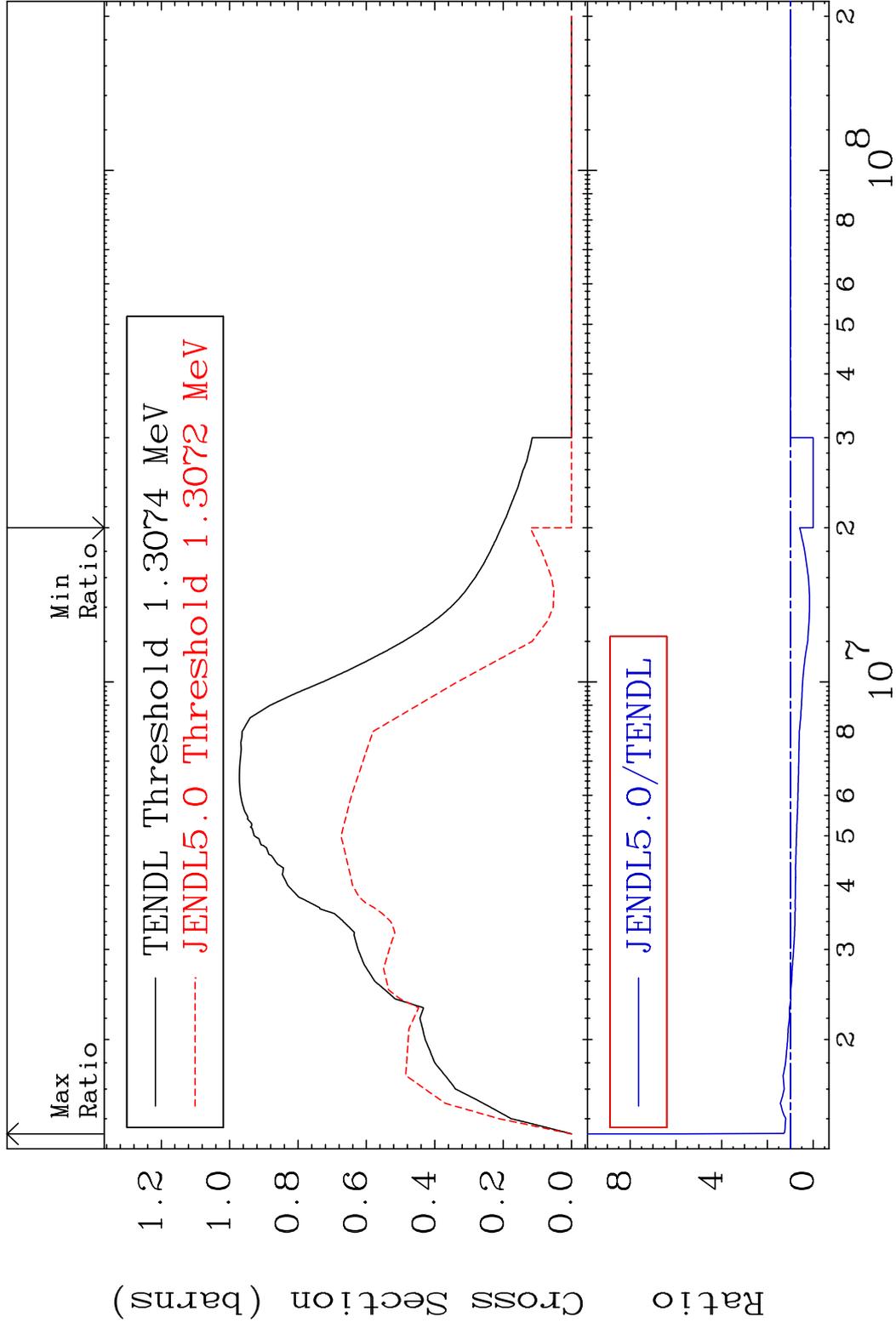


2

Incident Energy (eV)

15-P -31

MAT 1525 Inelastic 15-P -31
 Cross Section -100.0 To 469.7 %

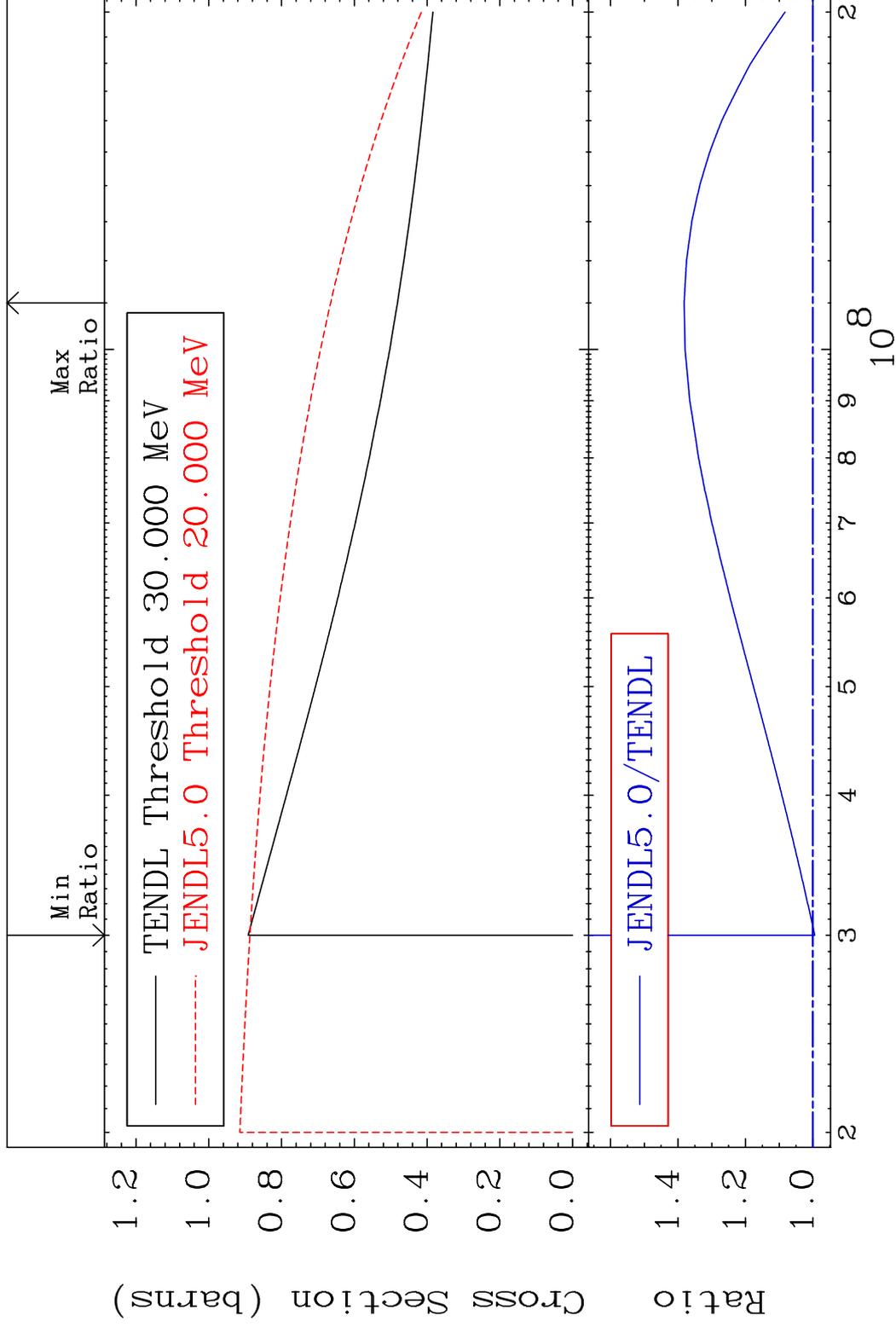


MAT 1525

(n, remainder)

15-P -31

Cross Section -0.521 To 38.19 %

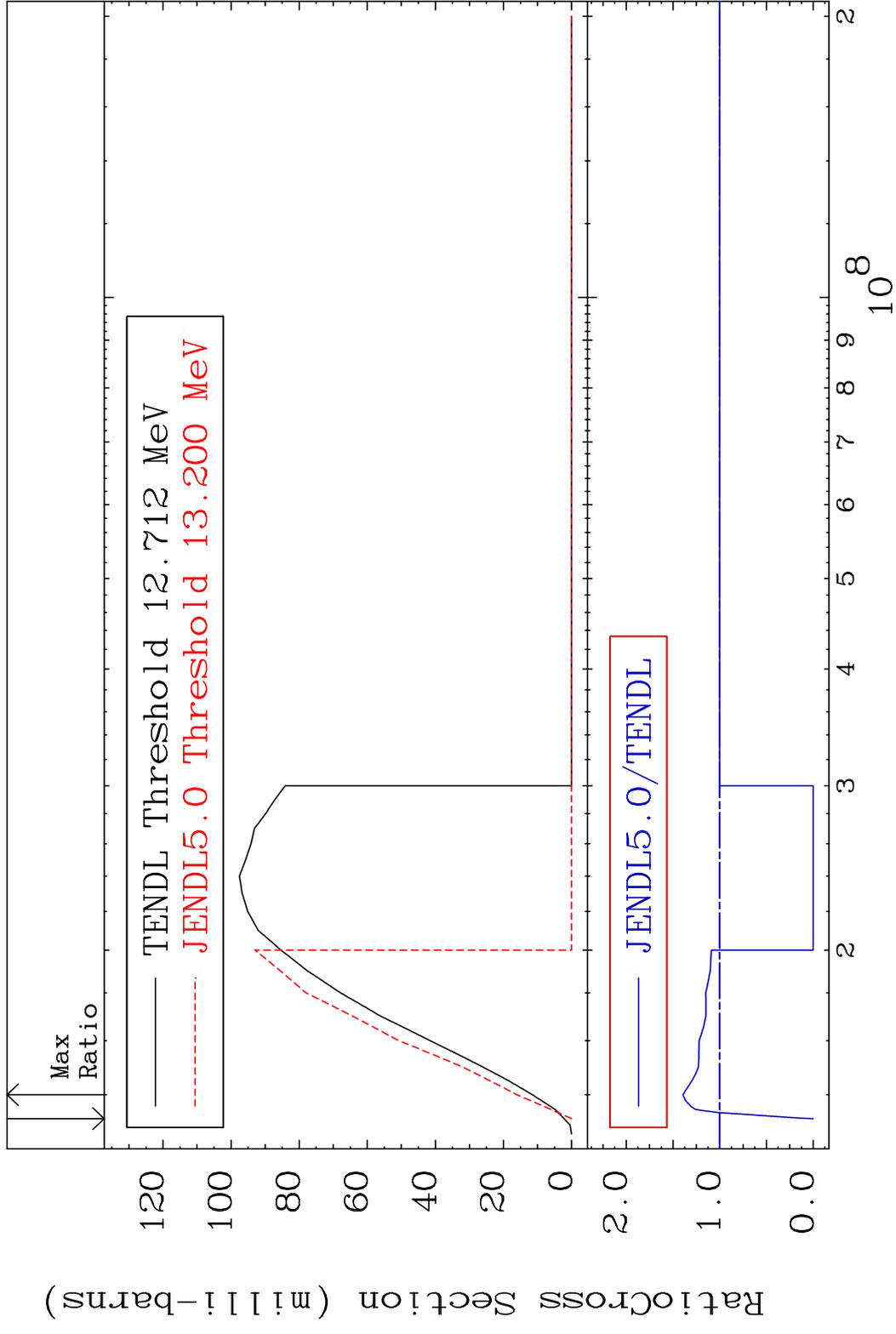


4

Incident Energy (eV)

15-P -31

MAT 1525 (n,2n) 15-P -31
 Cross Section -100.0 To 39.49 %

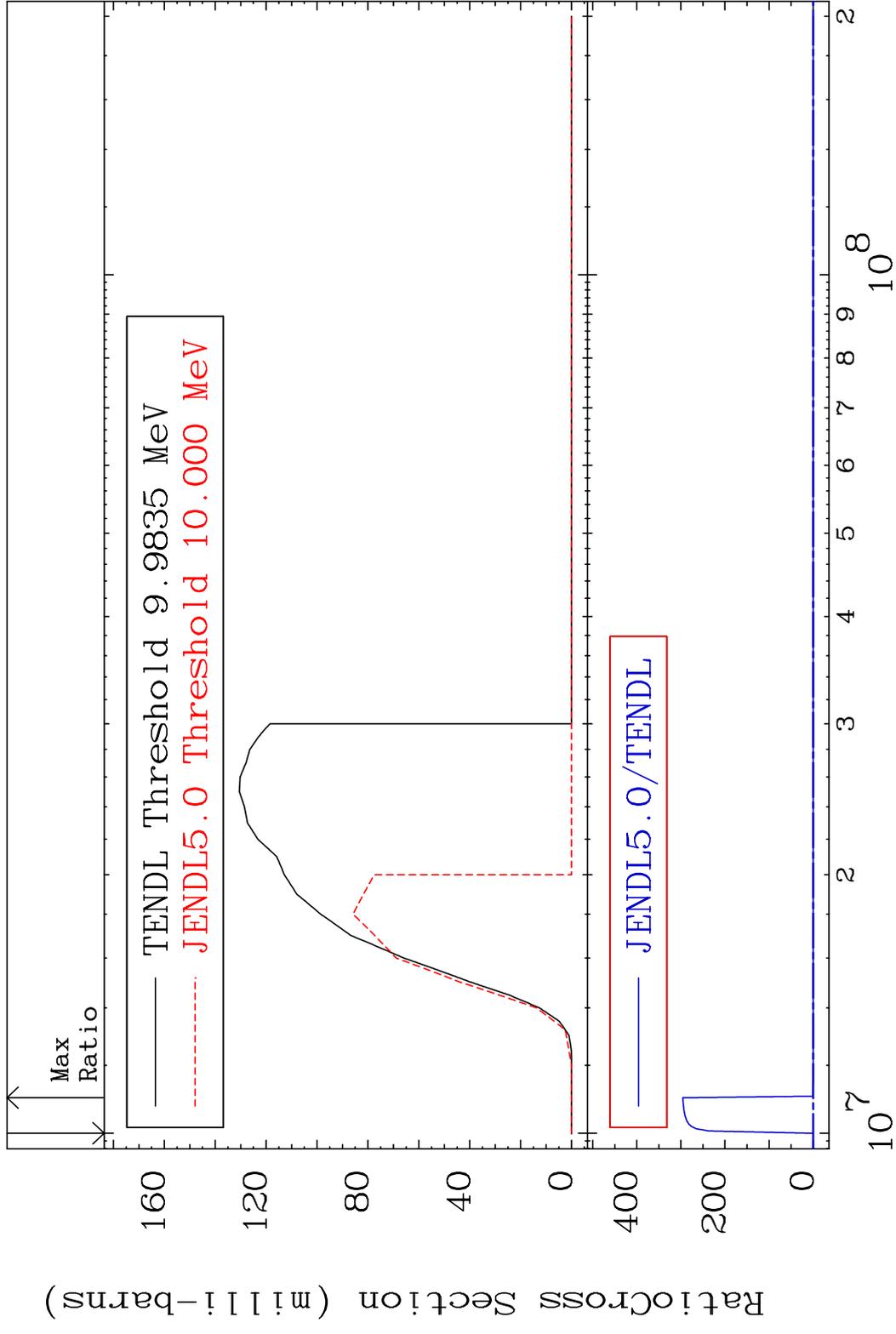


MAT 1525

(n, n') α

15-P -31

Cross Section -100.0 To 9999. %

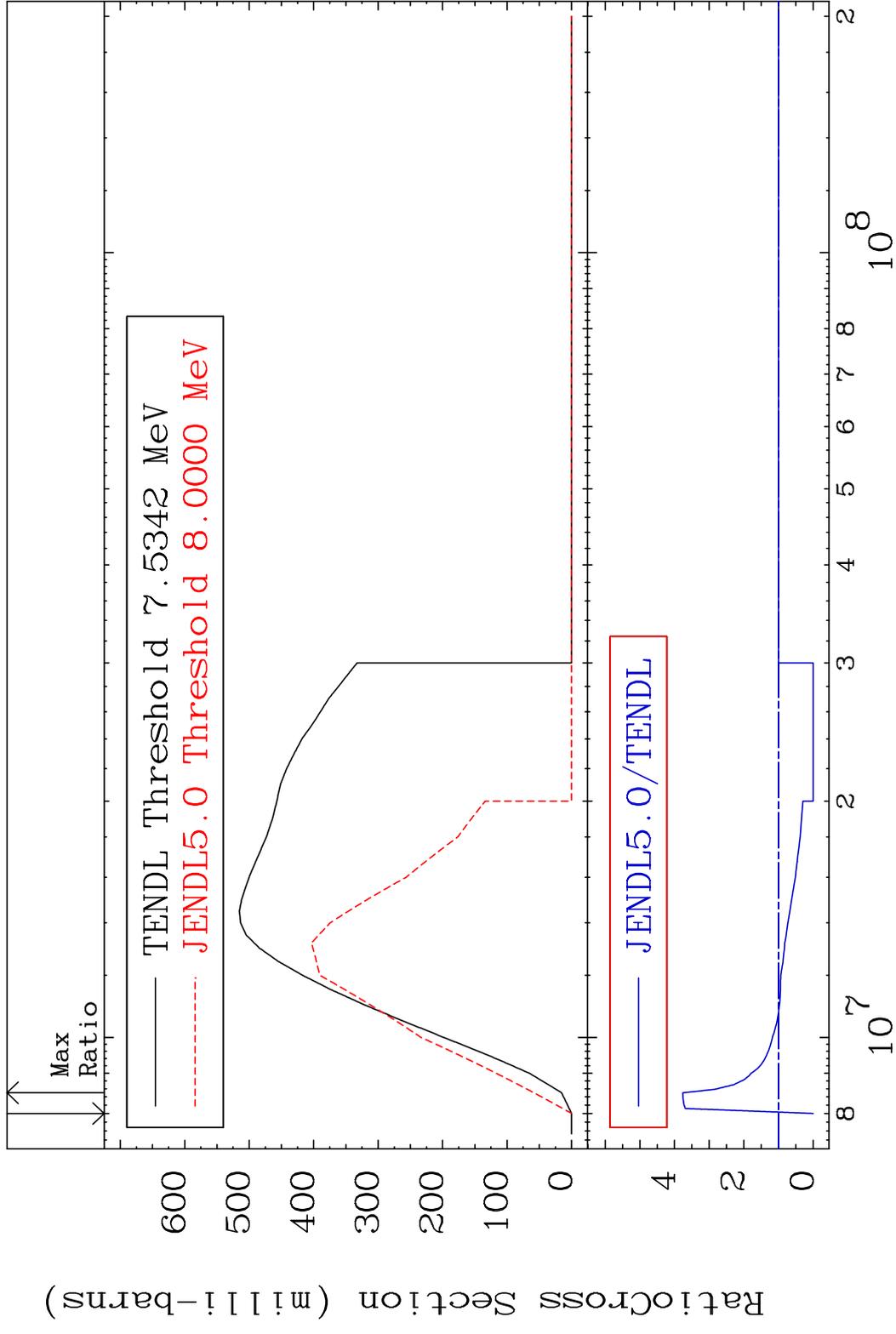


15-P -31

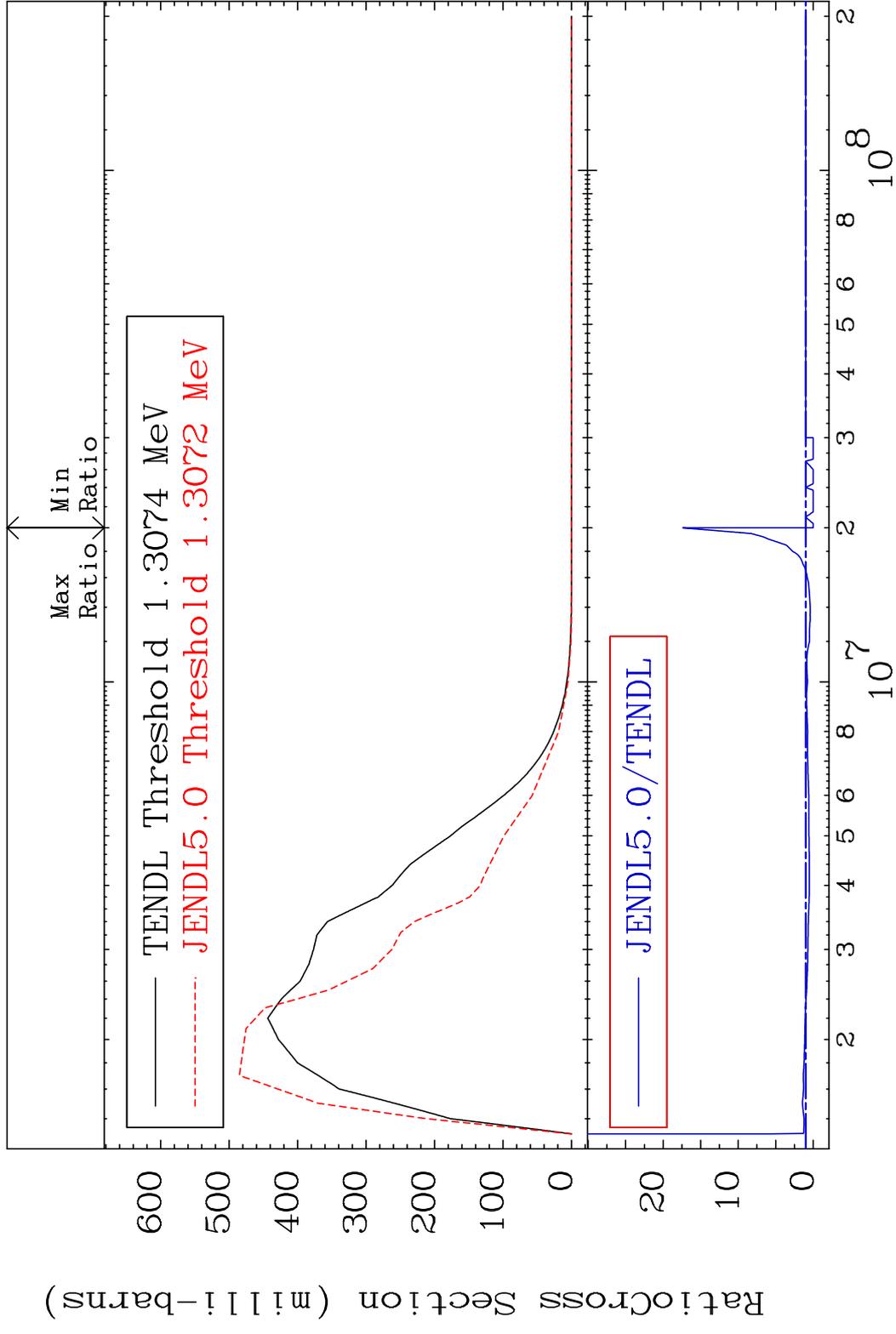
Incident Energy (eV)

6

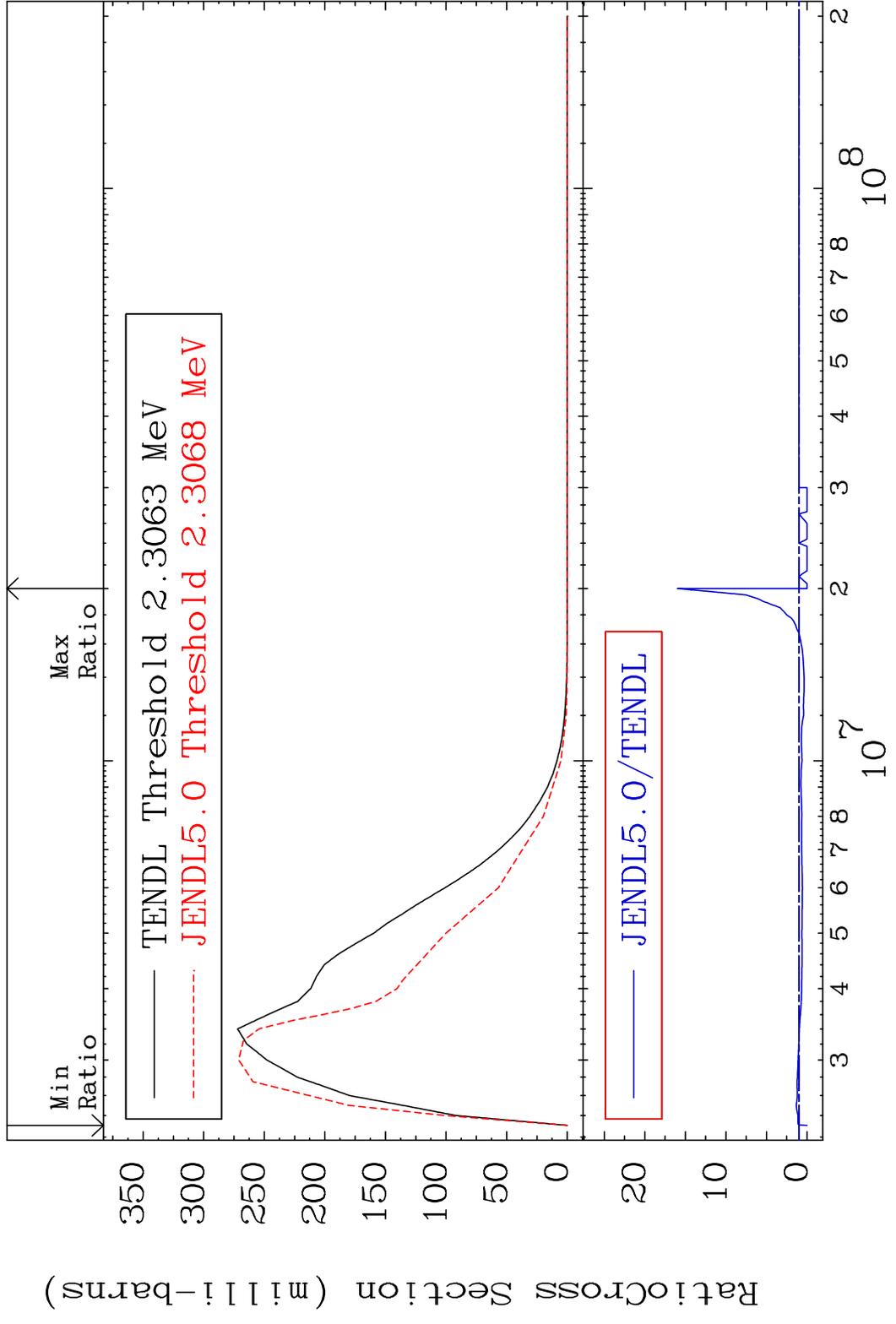
MAT 1525 (n, n') p 15-P -31
 Cross Section -100.0 To 276.1 %



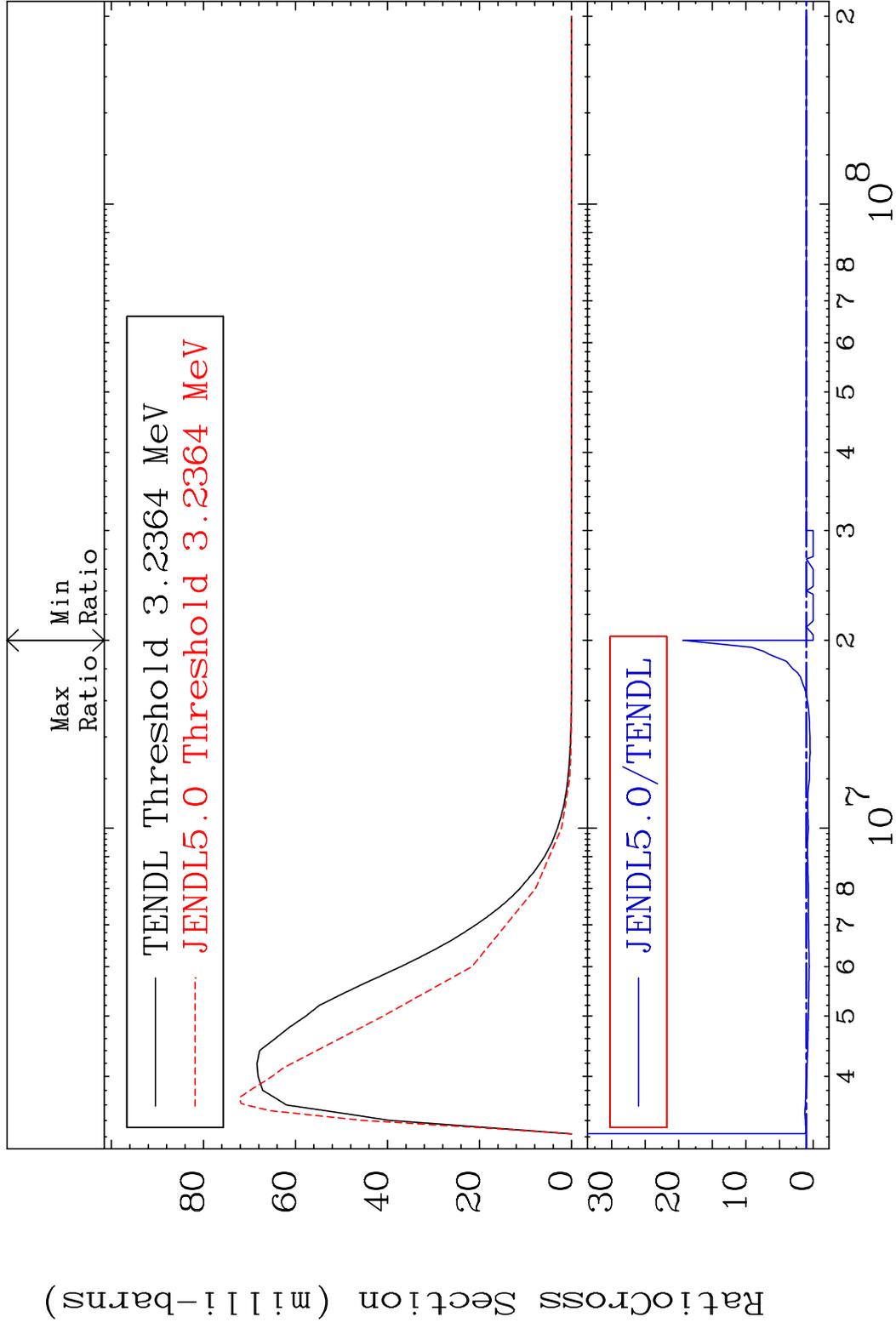
MAT 1525 MT= 51 (n, n') Level 15-P -31
 Cross Section -100.0 To 1638. %



MAT 1525 MT= 52 (n, n') Level 15-P -31
 Cross Section -100.0 To 1495. %

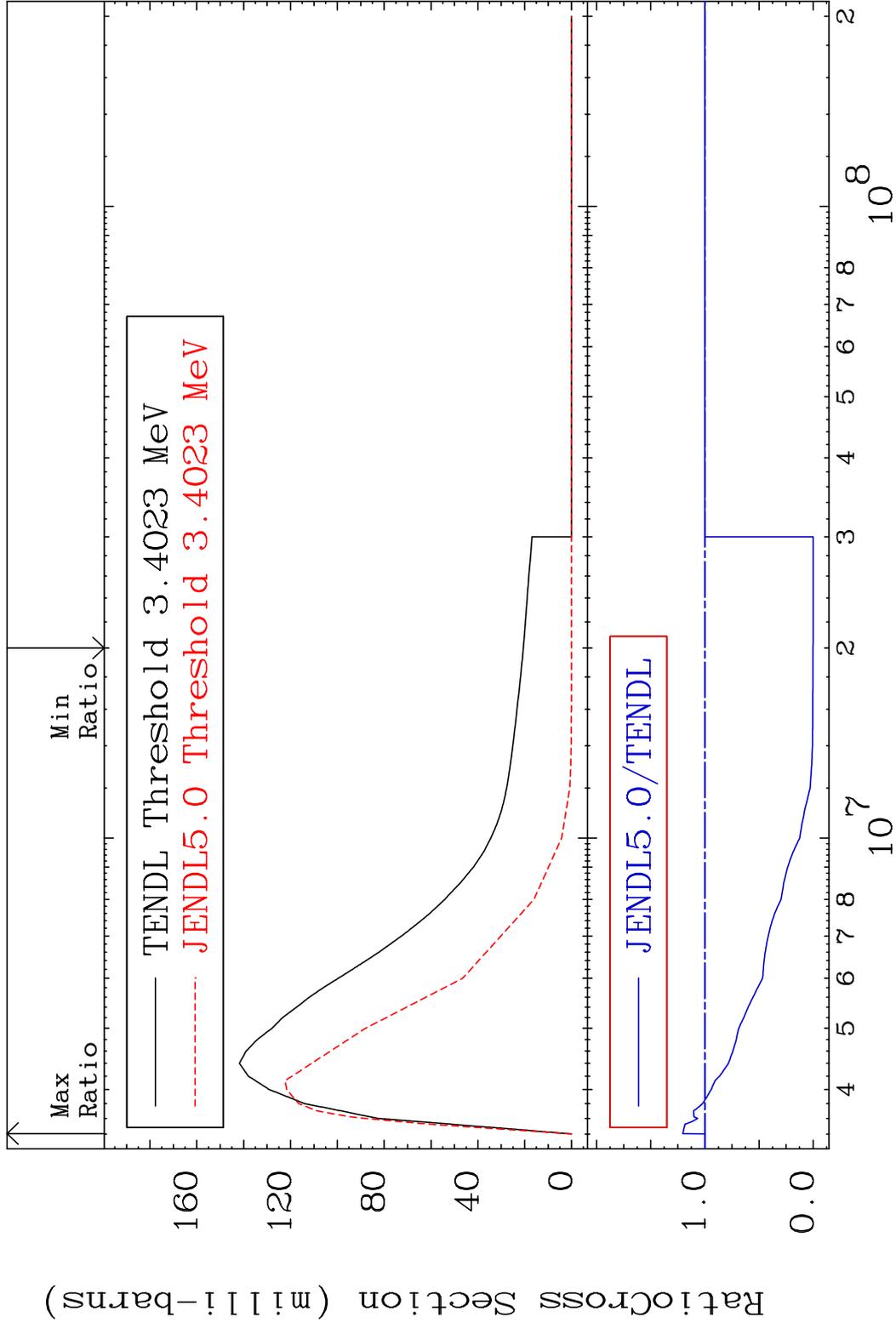


MAT 1525 MT= 53 (n, n') Level 15-P -31
 Cross Section -100.0 To 1840. %

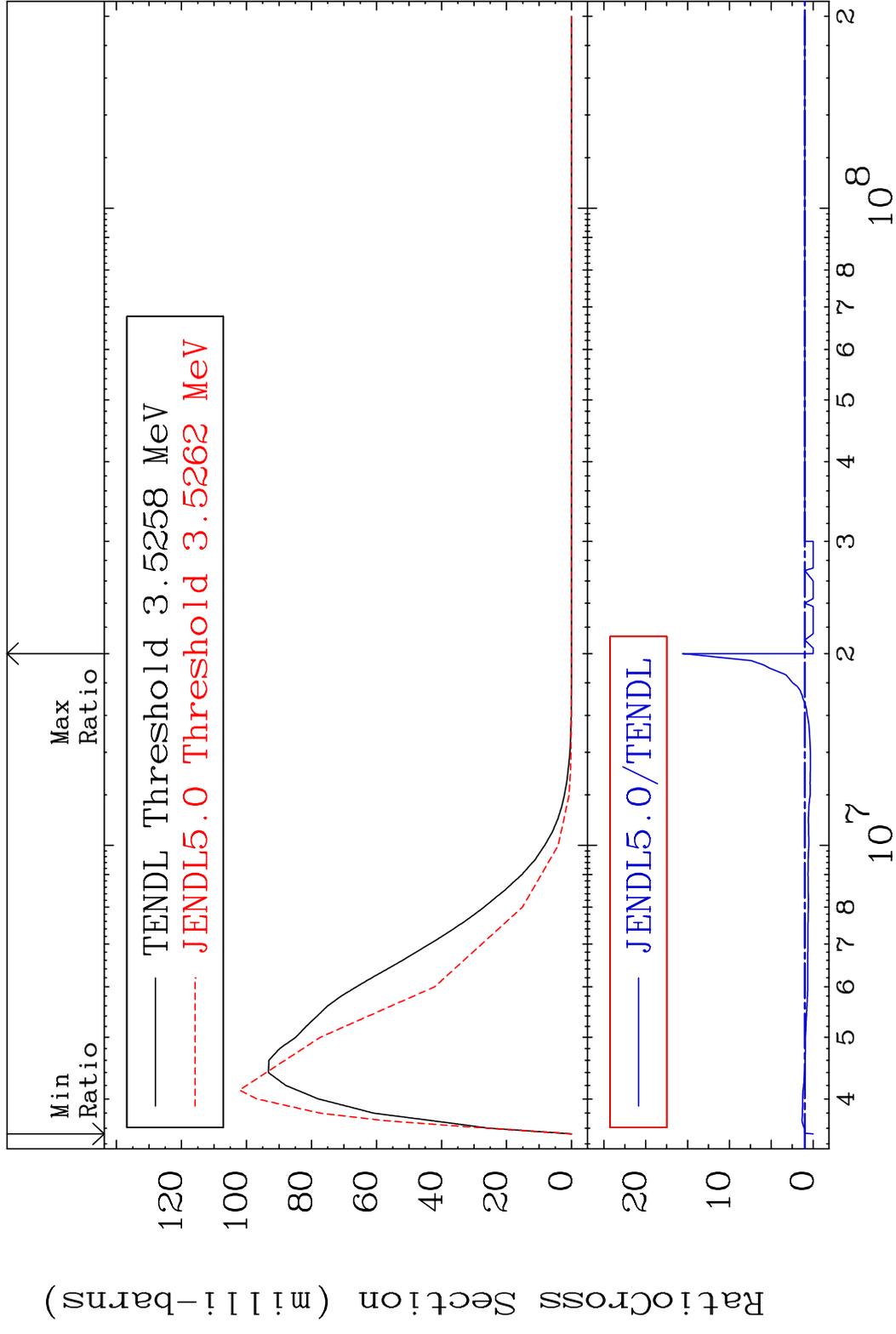


10 Incident Energy (eV) 15-P -31

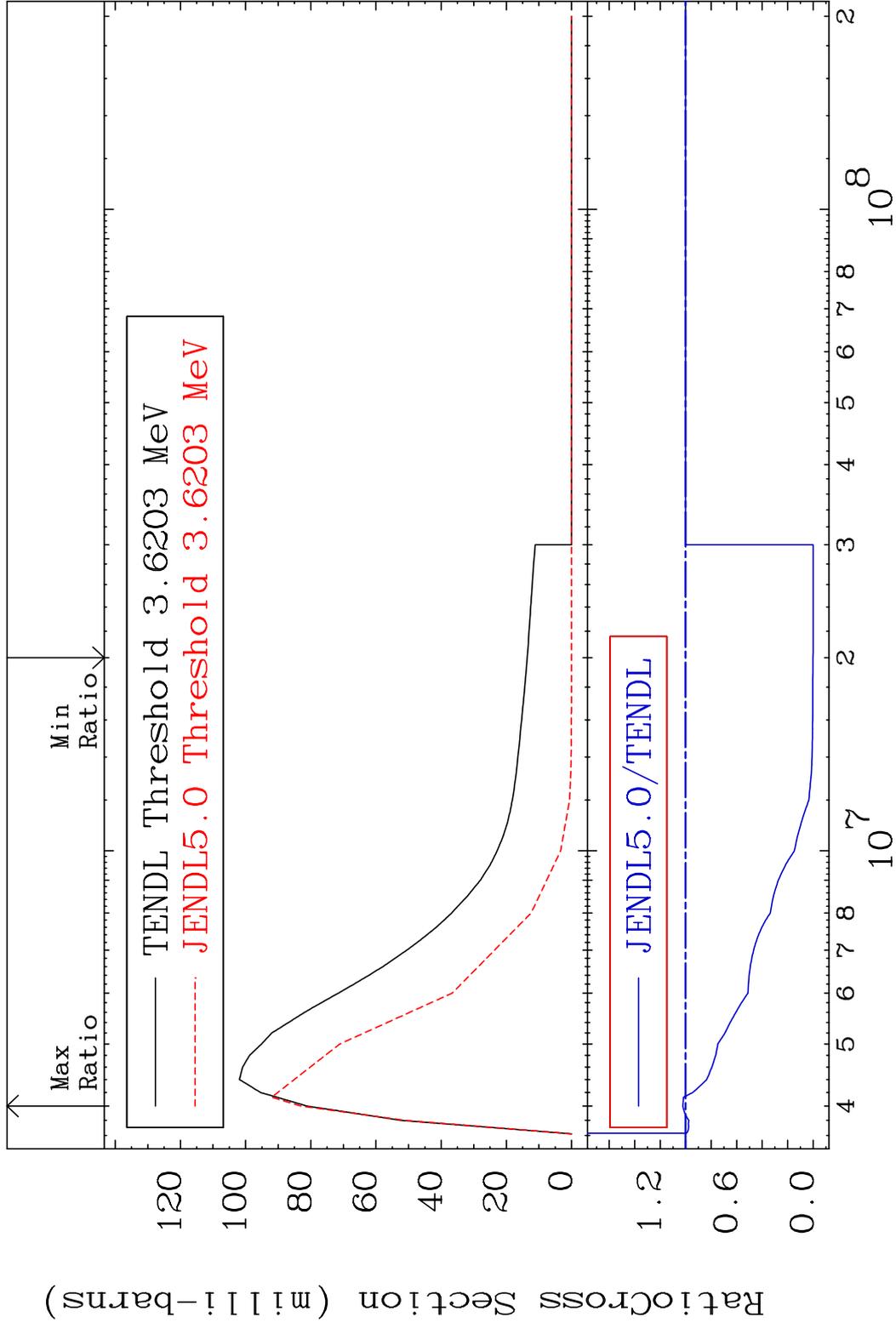
MAT 1525 MT= 54 (n,n') Level 15-P -31
 Cross Section -100.0 To 20.35 %



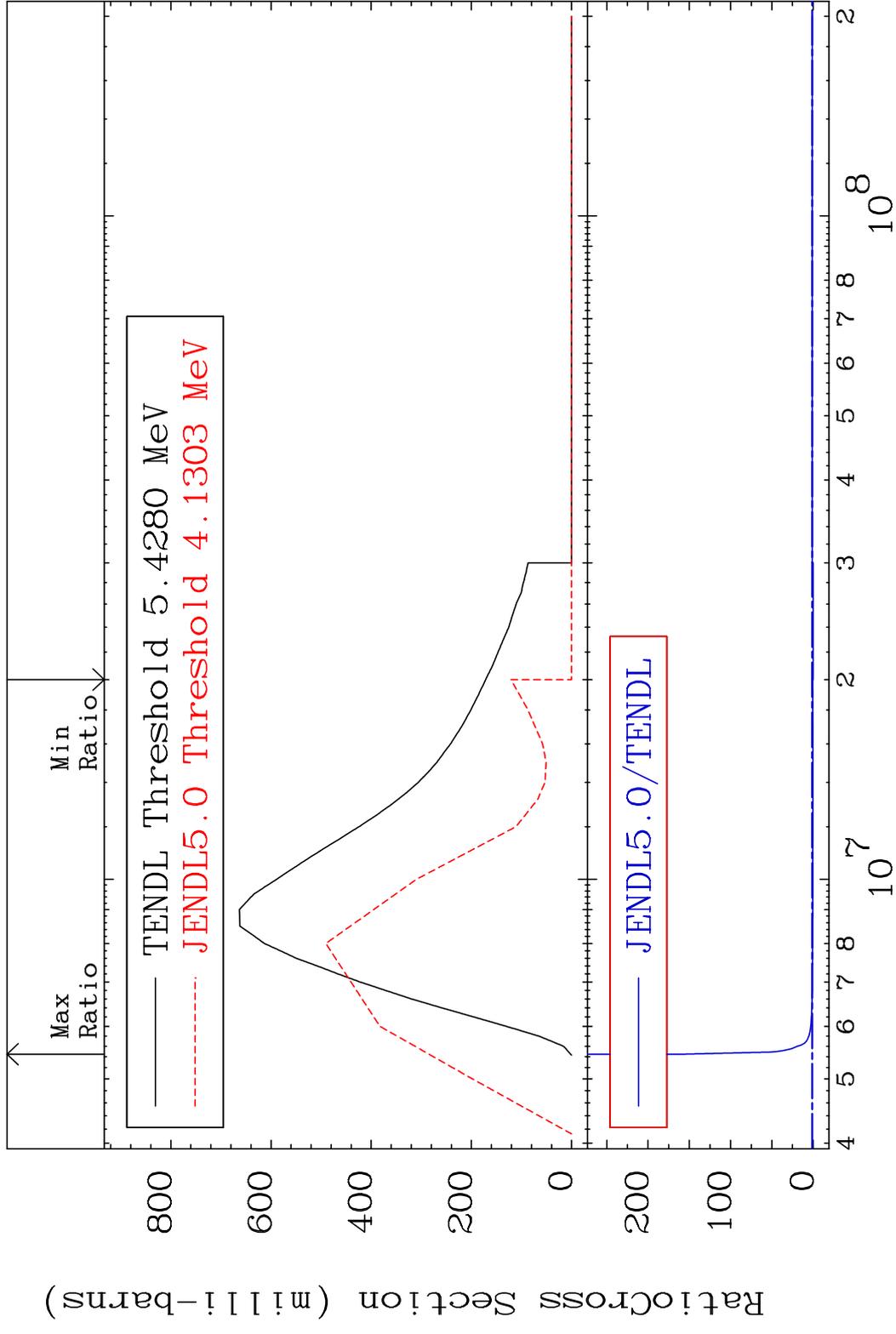
MAT 1525 MT= 55 (n, n') Level 15-P -31
 Cross Section -100.0 To 1457. %



MAT 1525 MT= 56 (n,n') Level 15-P -31
 Cross Section -100.0 To 2.253 %



Cross Section -100.0 To 9999. %

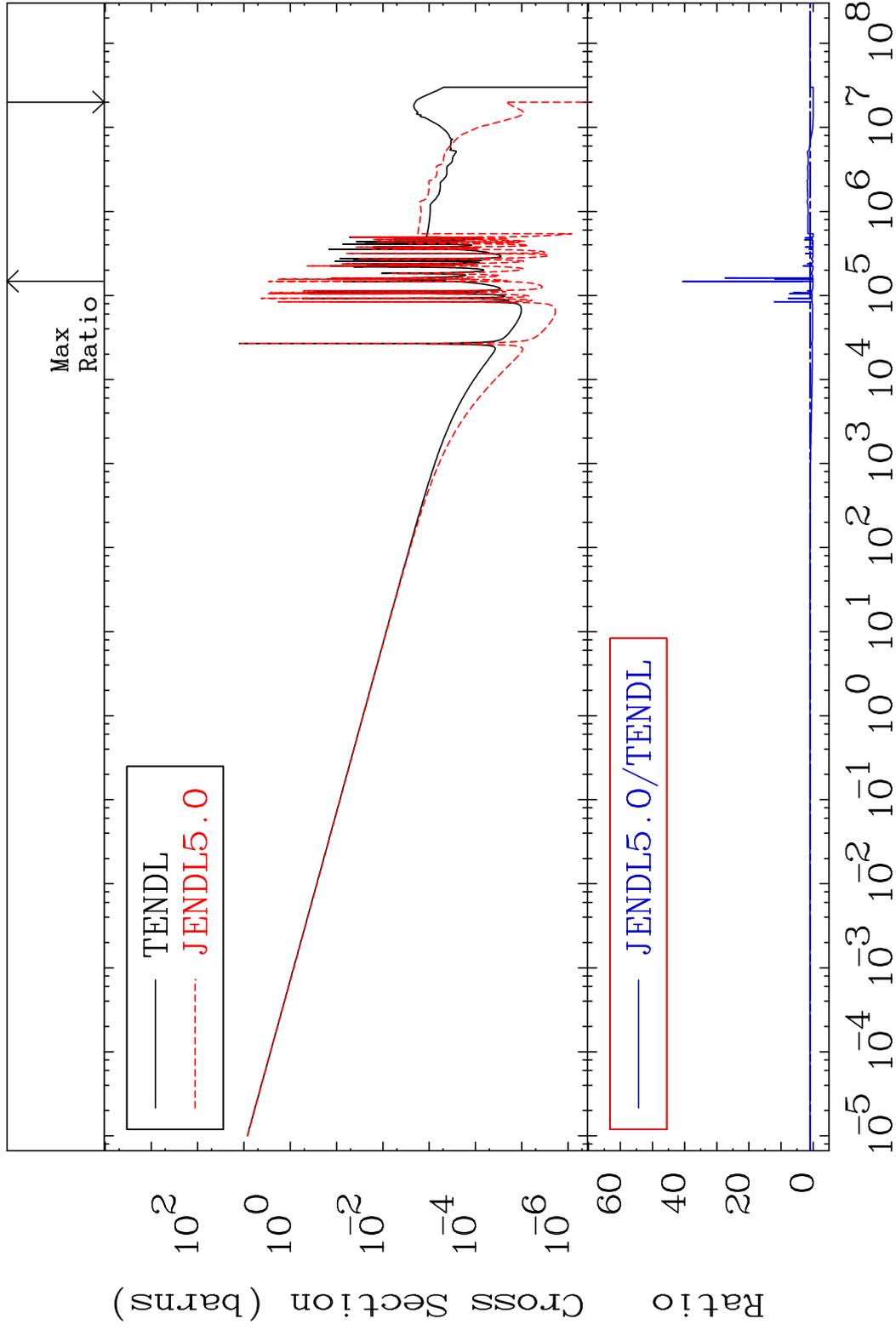


MAT 1525

(n, γ)

15-P -31

Cross Section -100.0 To 3957. %



15

Incident Energy (eV)

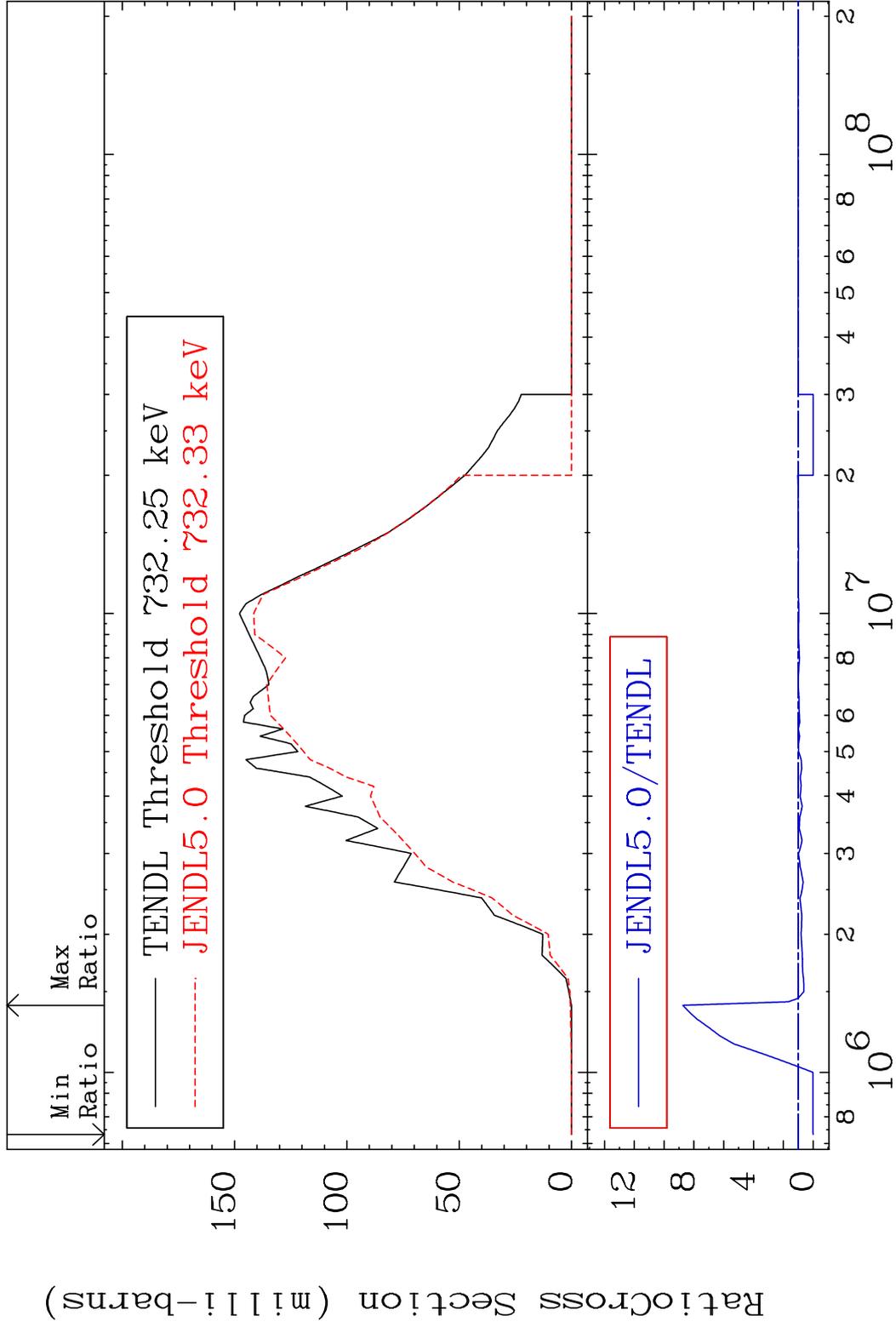
15-P -31

MAT 1525

(n,p)

15-P -31

Cross Section -100.0 To 774.3 %

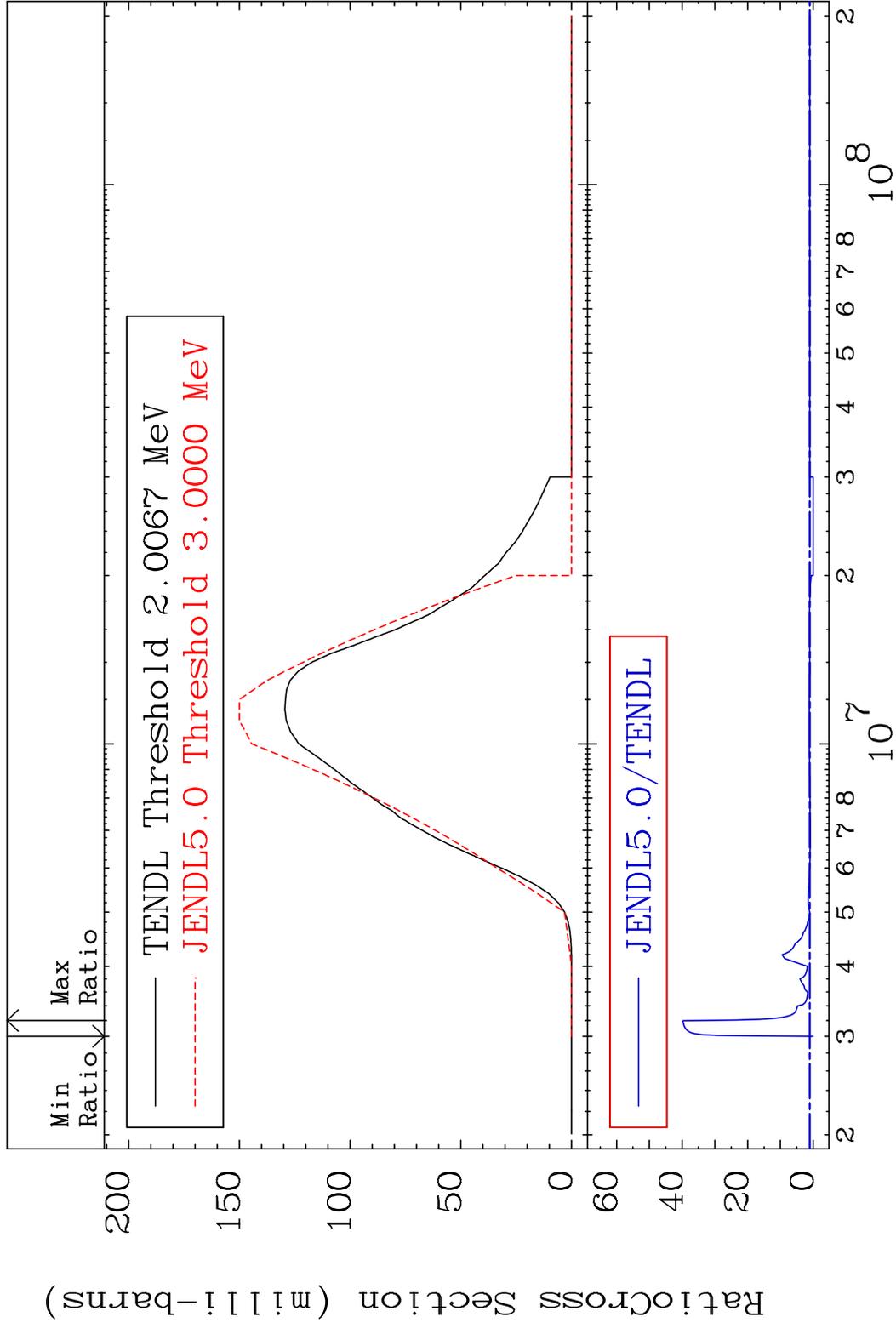


16

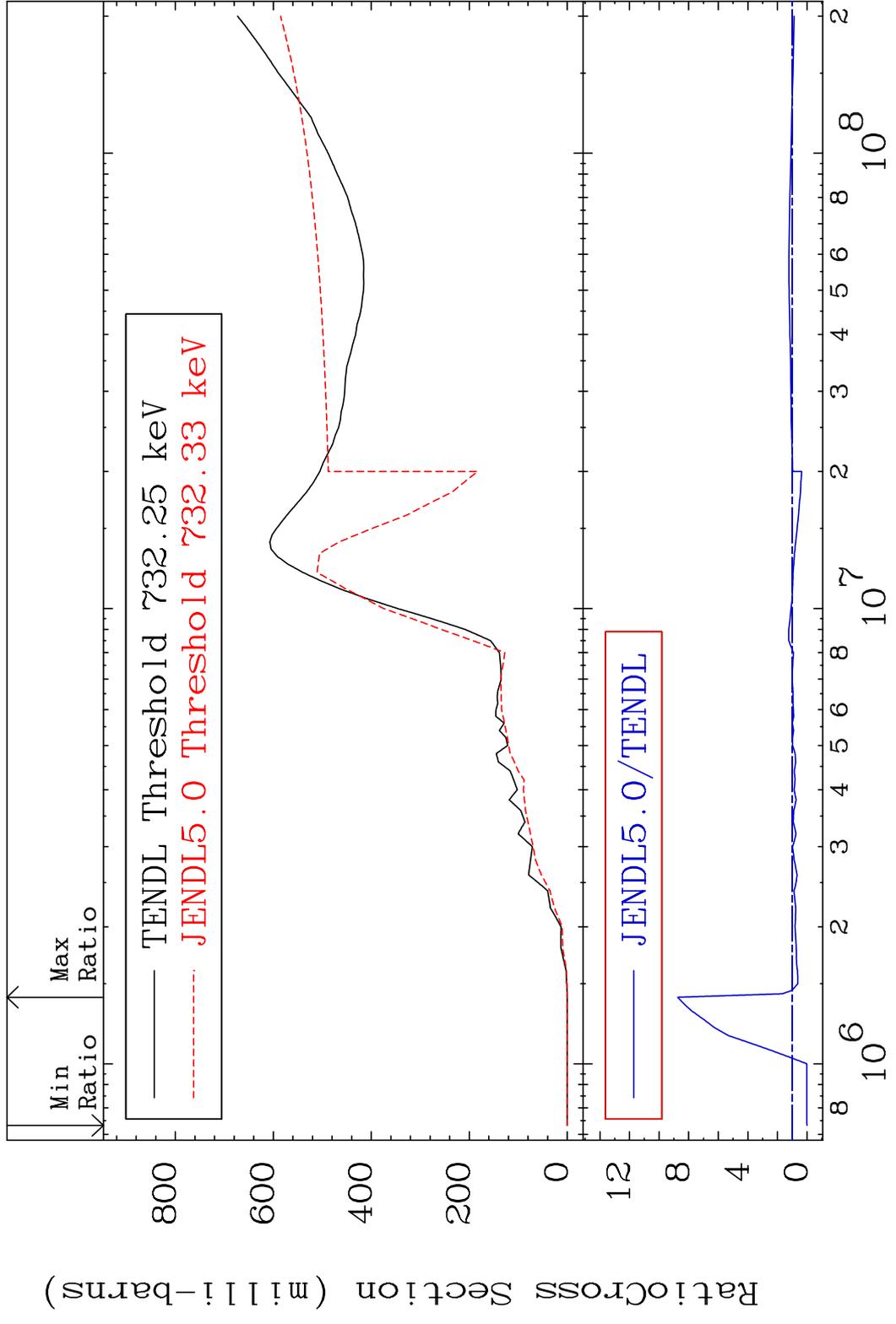
Incident Energy (eV)

15-P -31

MAT 1525 (n, α) 15-P -31
 Cross Section -100.0 To 3878. %

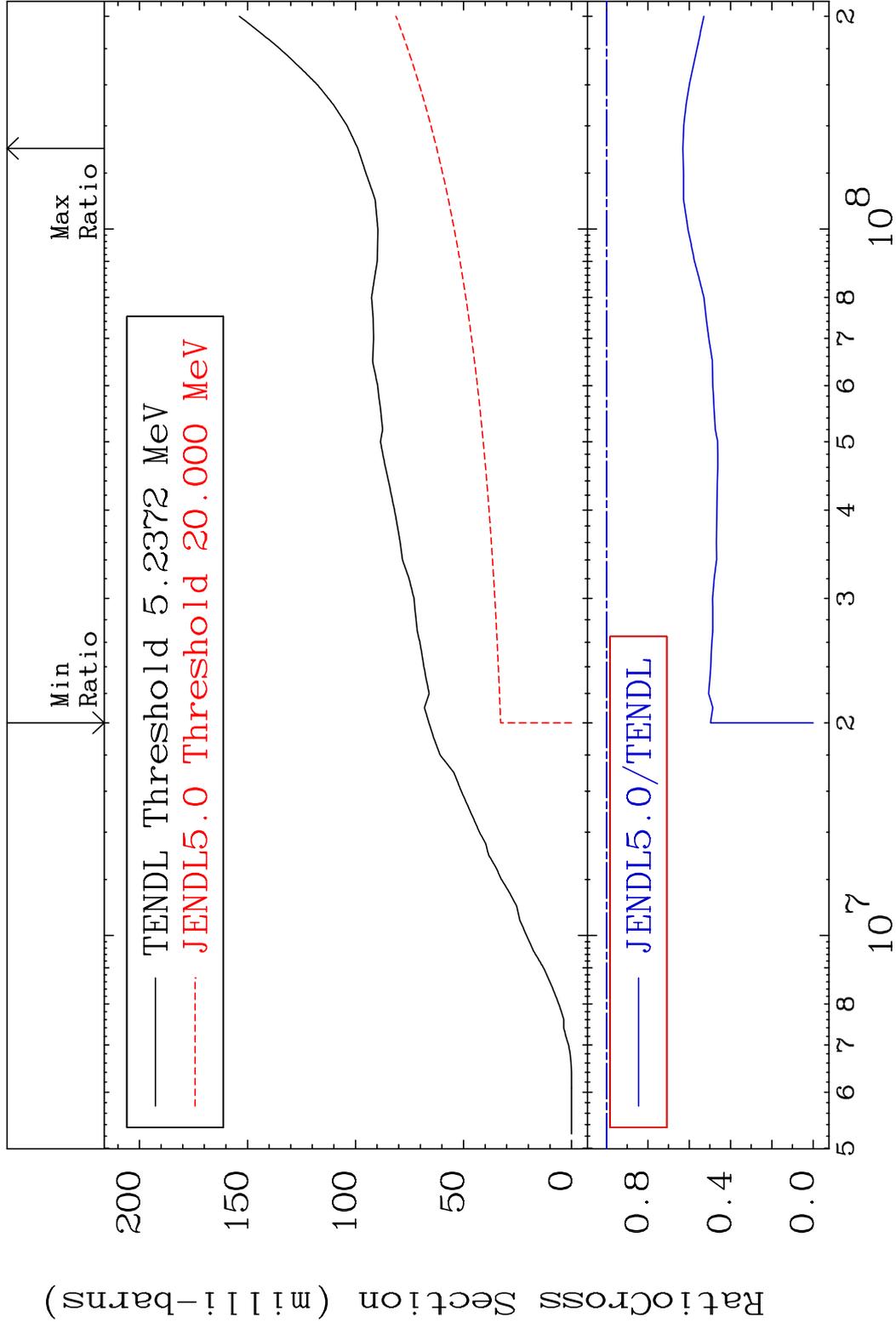


MAT 1525 Hydrogen Production 15-P -31
 Cross Section -100.0 To 774.3 %

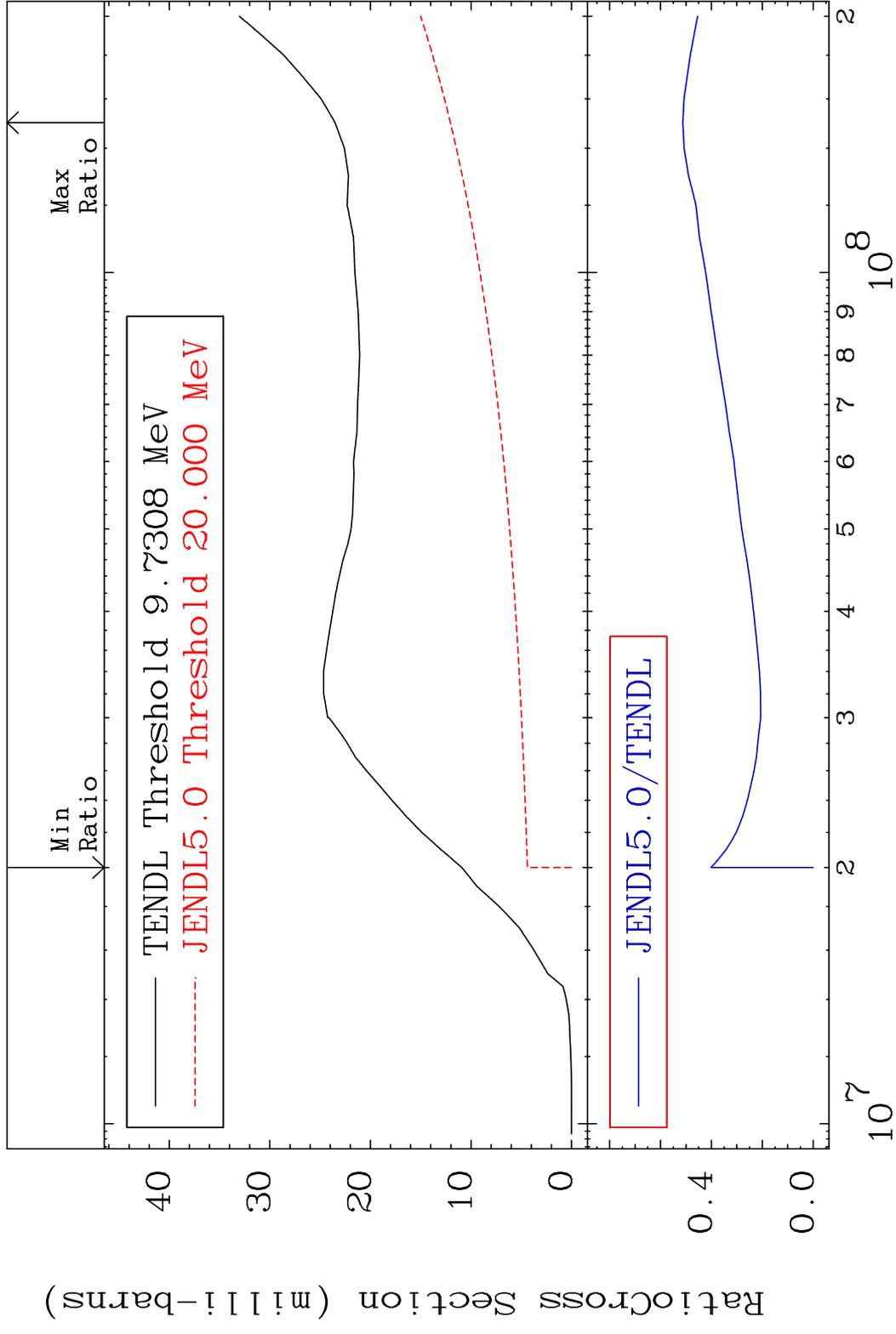


18 15-P -31

MAT 1525 Deuterium Production 15-P -31
 Cross Section -100.0 To -36.93%

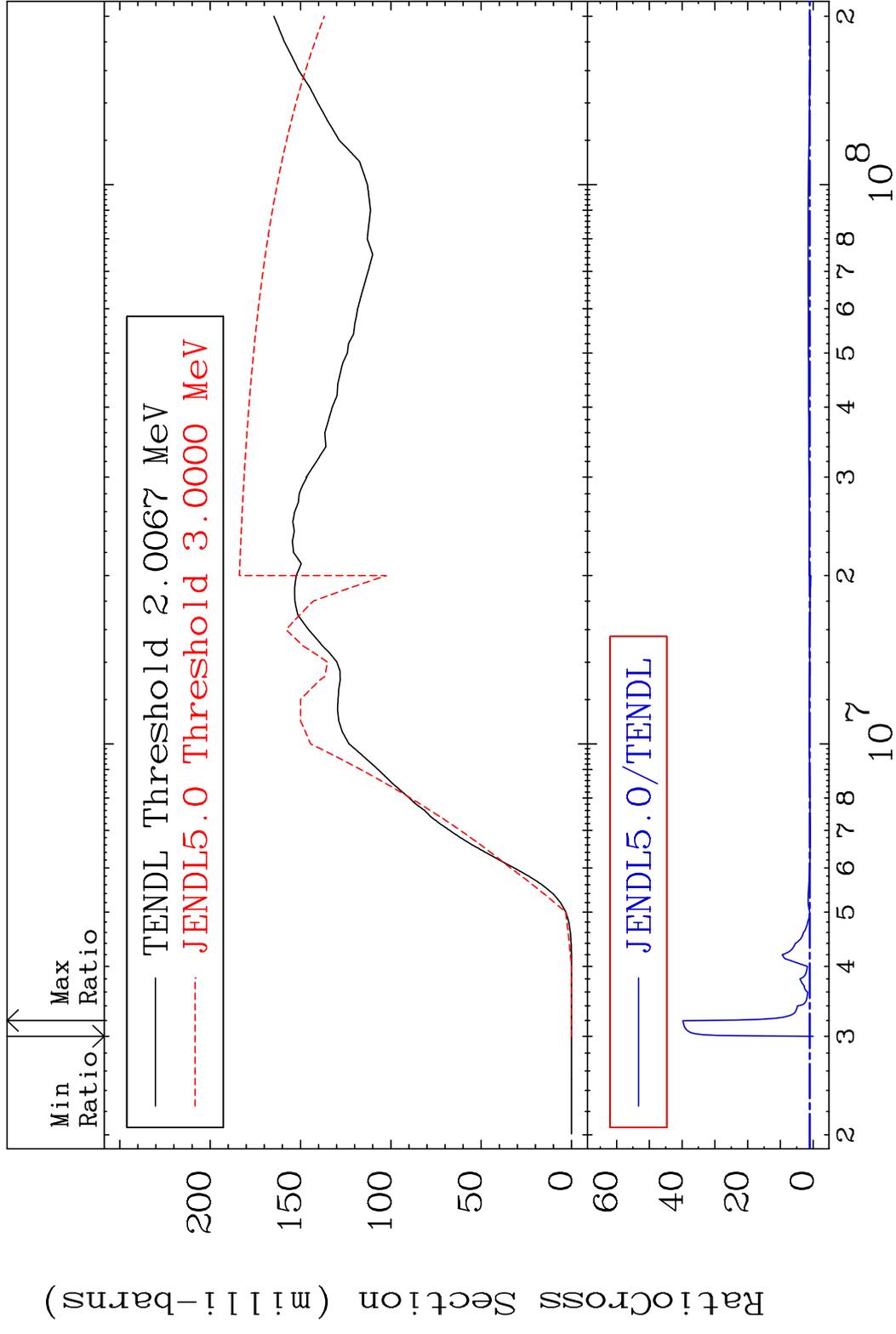


MAT 1525 Tritium Production 15-P -31
 Cross Section -100.0 To -48.77%

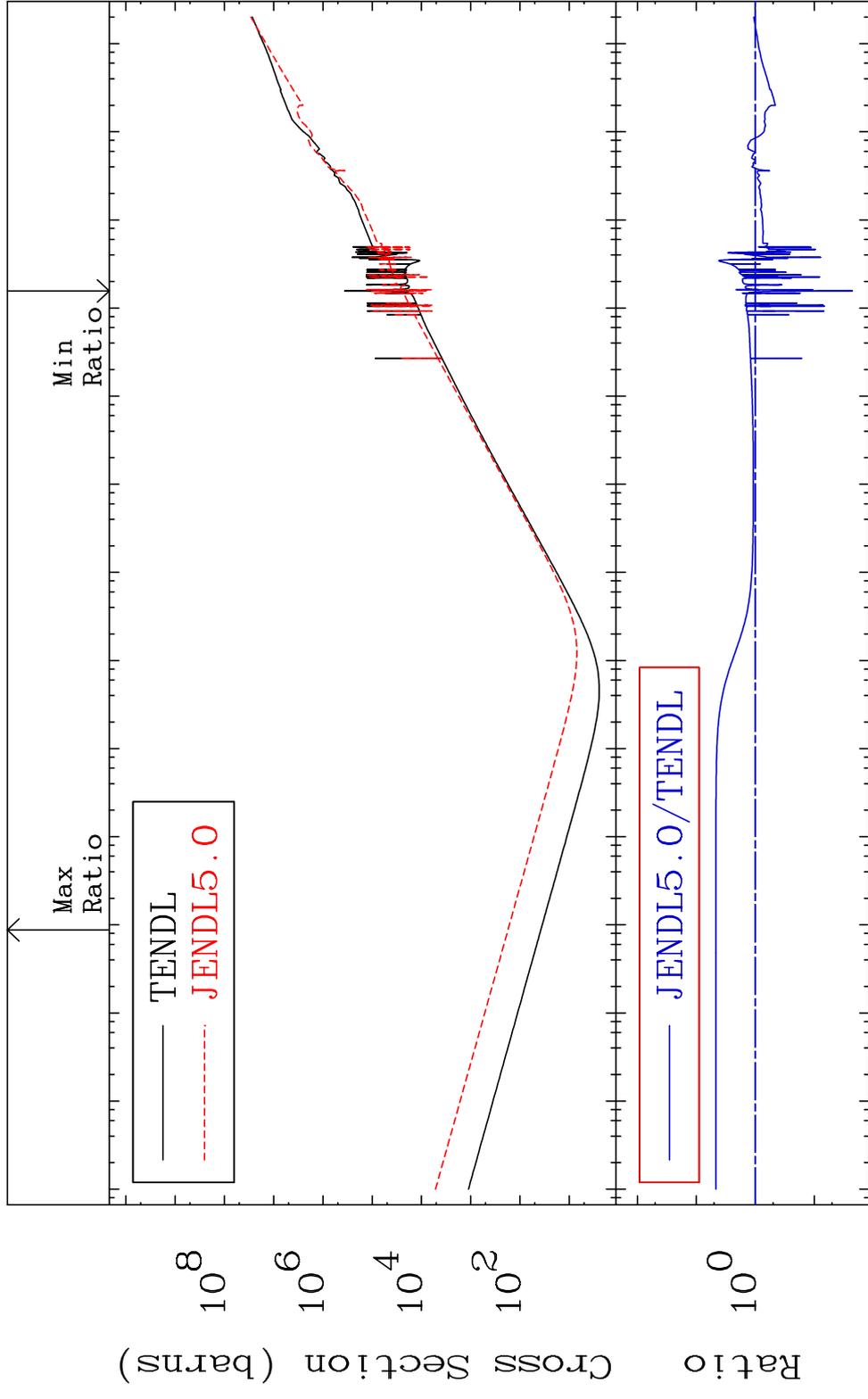


20 10⁷ 2 10⁸ 15-P -31

Cross Section -100.0 To 3878. %



MAT 1525 Kerma total (eV-barns) 15-P -31
 Cross Section -97.76 To 365.8 %

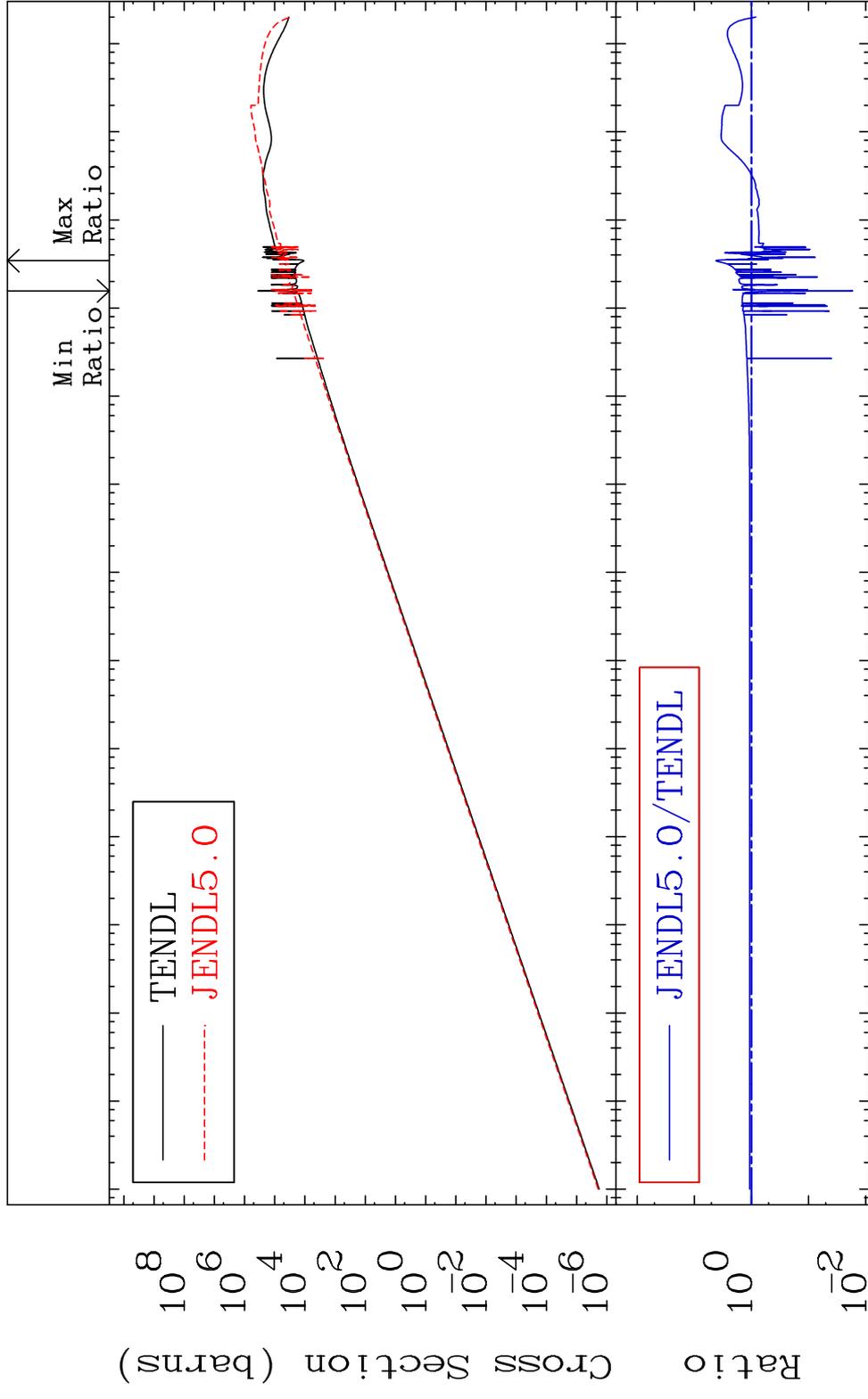


Ratio
 Cross Section (barns)
 Incident Energy (eV) 15-P -31

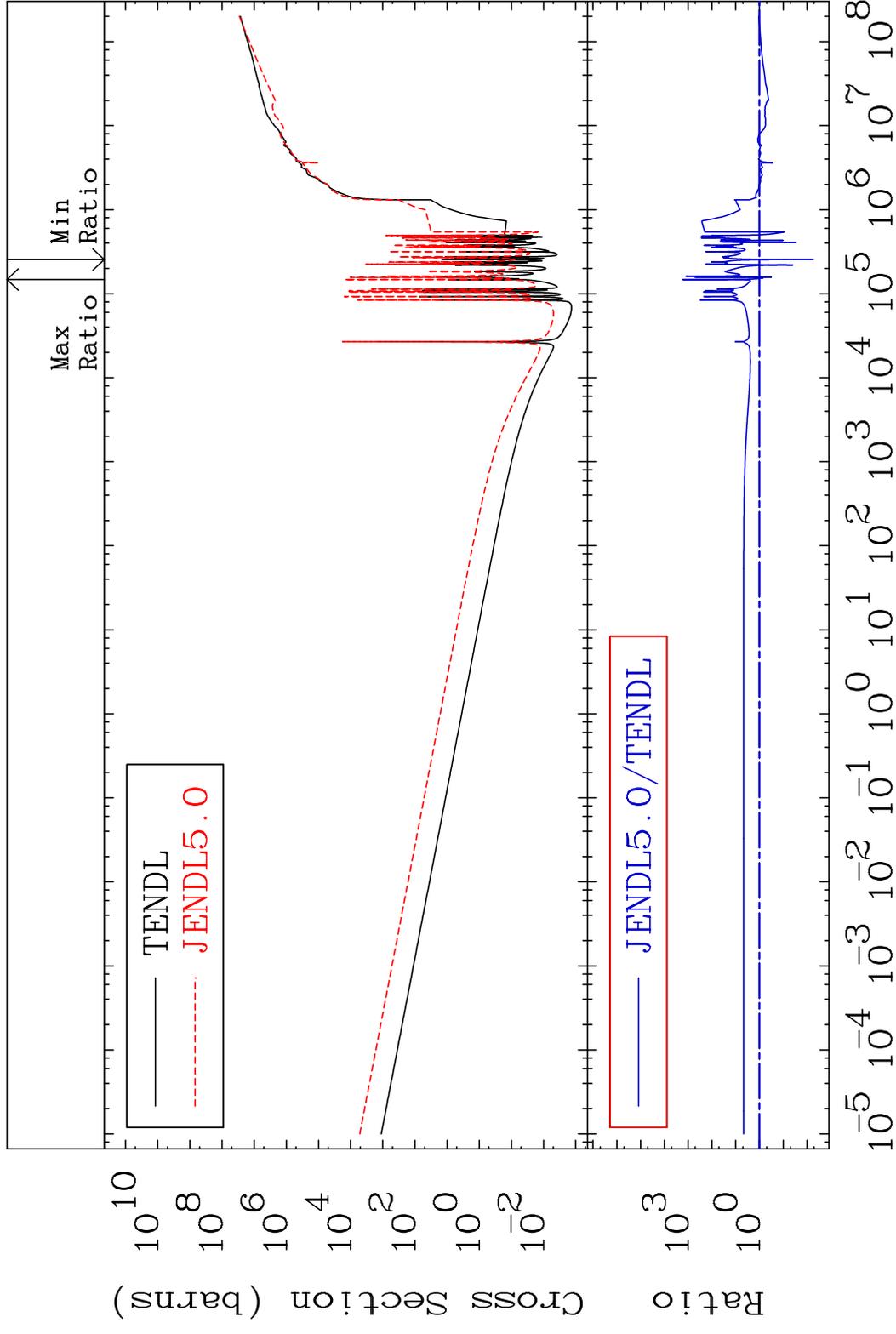
MAT 1525

Kerma elastic
Cross Section

15-P -31
-98.30 To 318.6 %

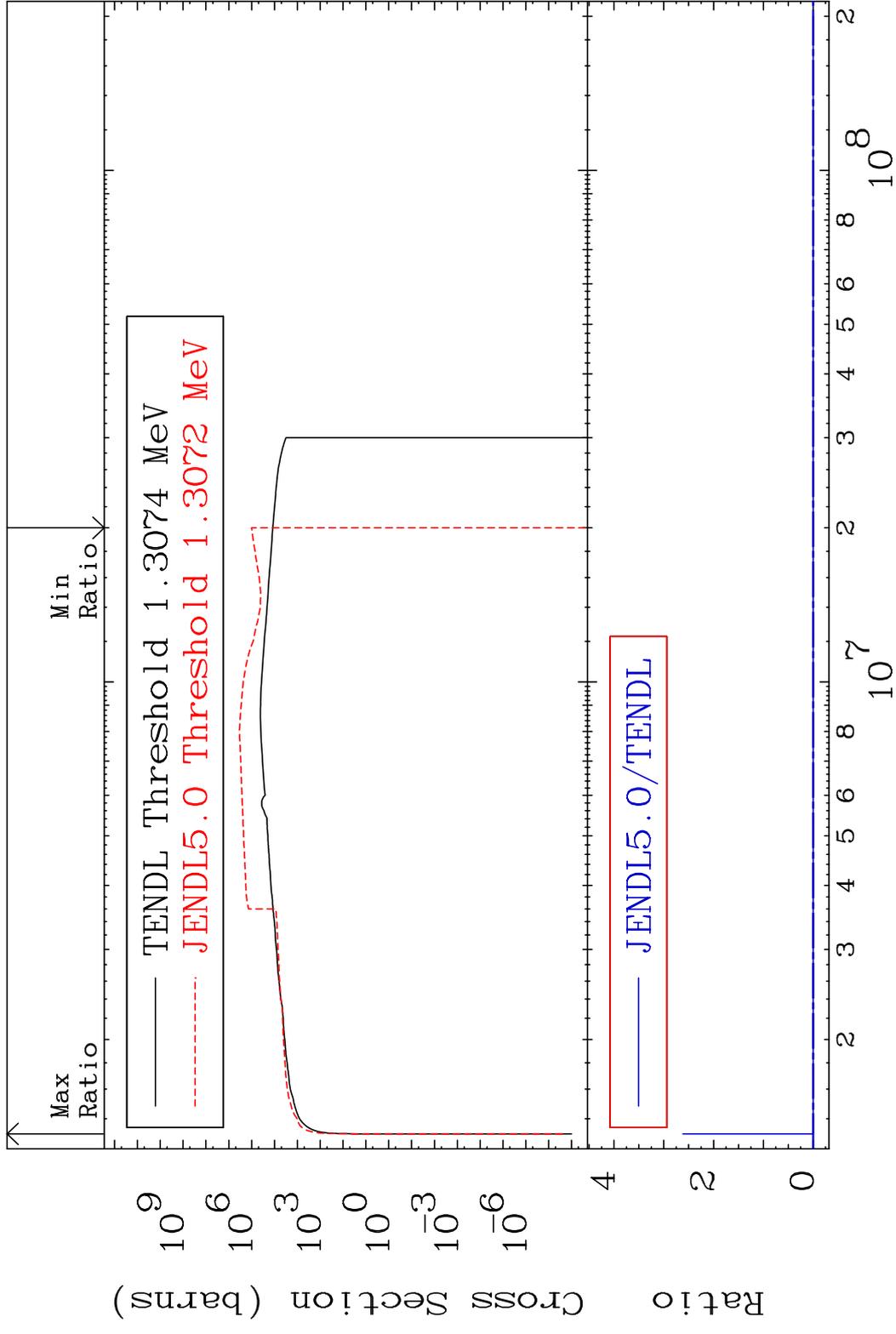


MAT 1525 Kerma non-elastic (all but mt2) 15-P -31
 Cross Section -99.45 To 9999. %

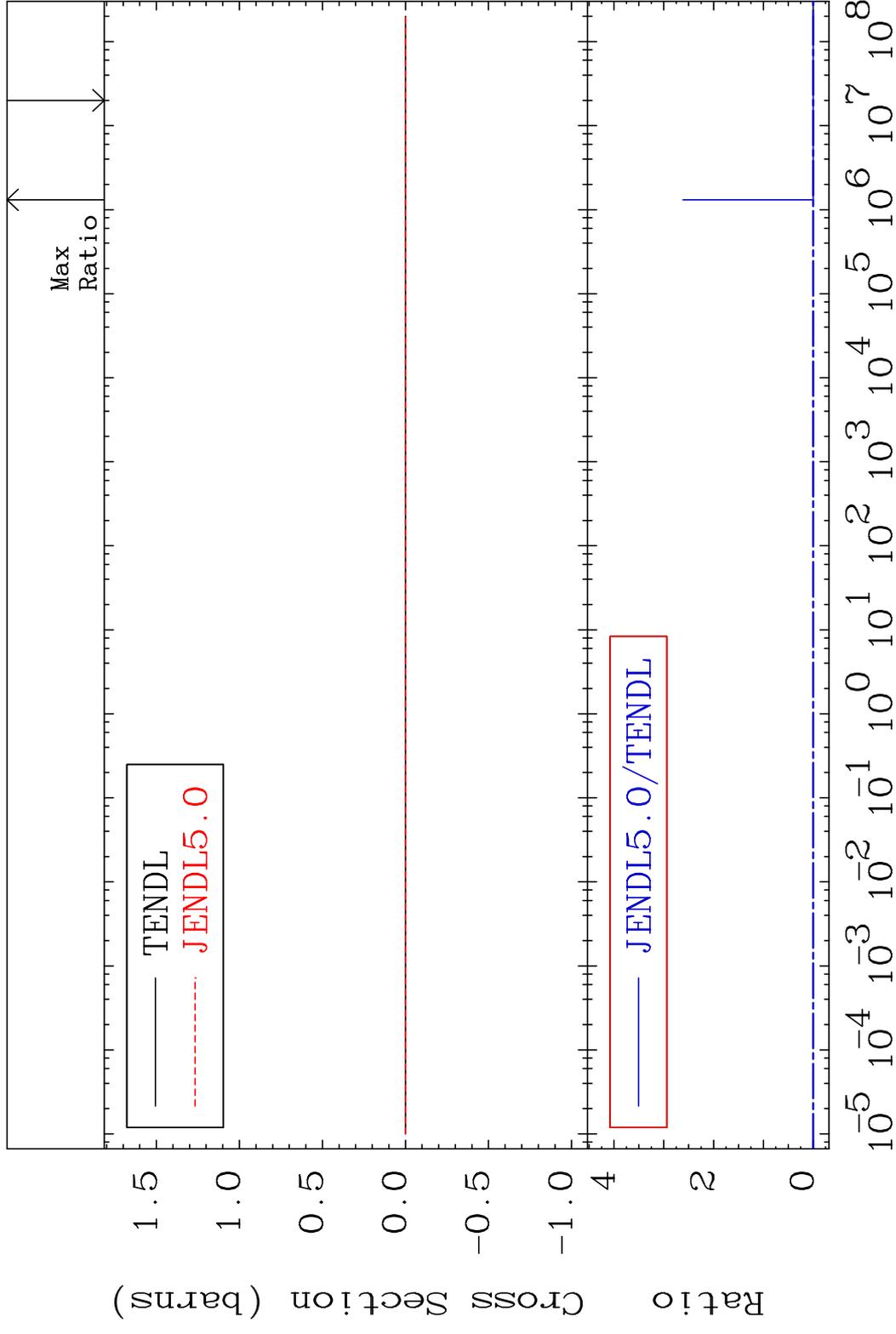


25 Incident Energy (eV) 15-P -31

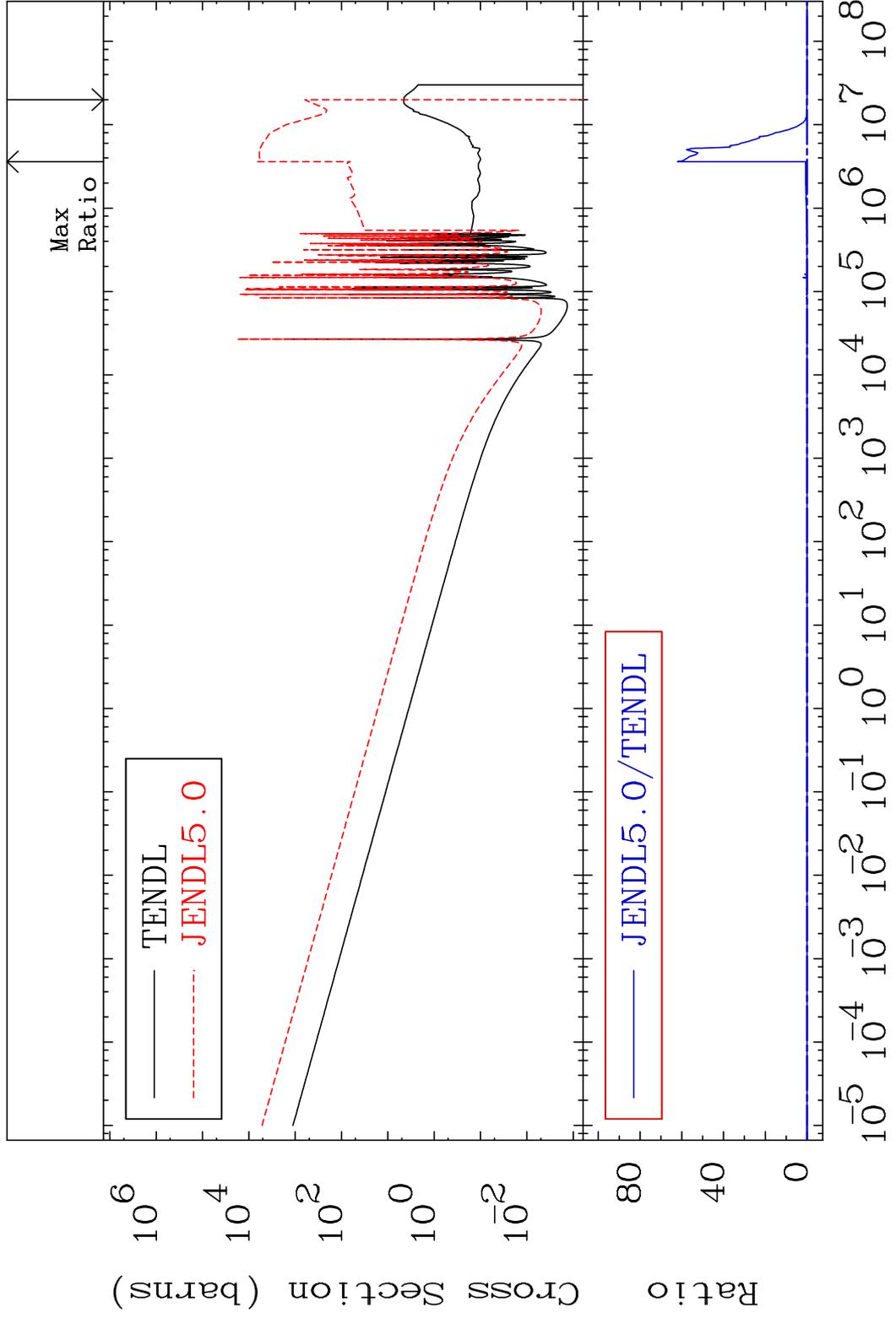
MAT 1525 Kerma inelastic (mt51-91) 15-P -31
 Cross Section -100.0 To 9999. %



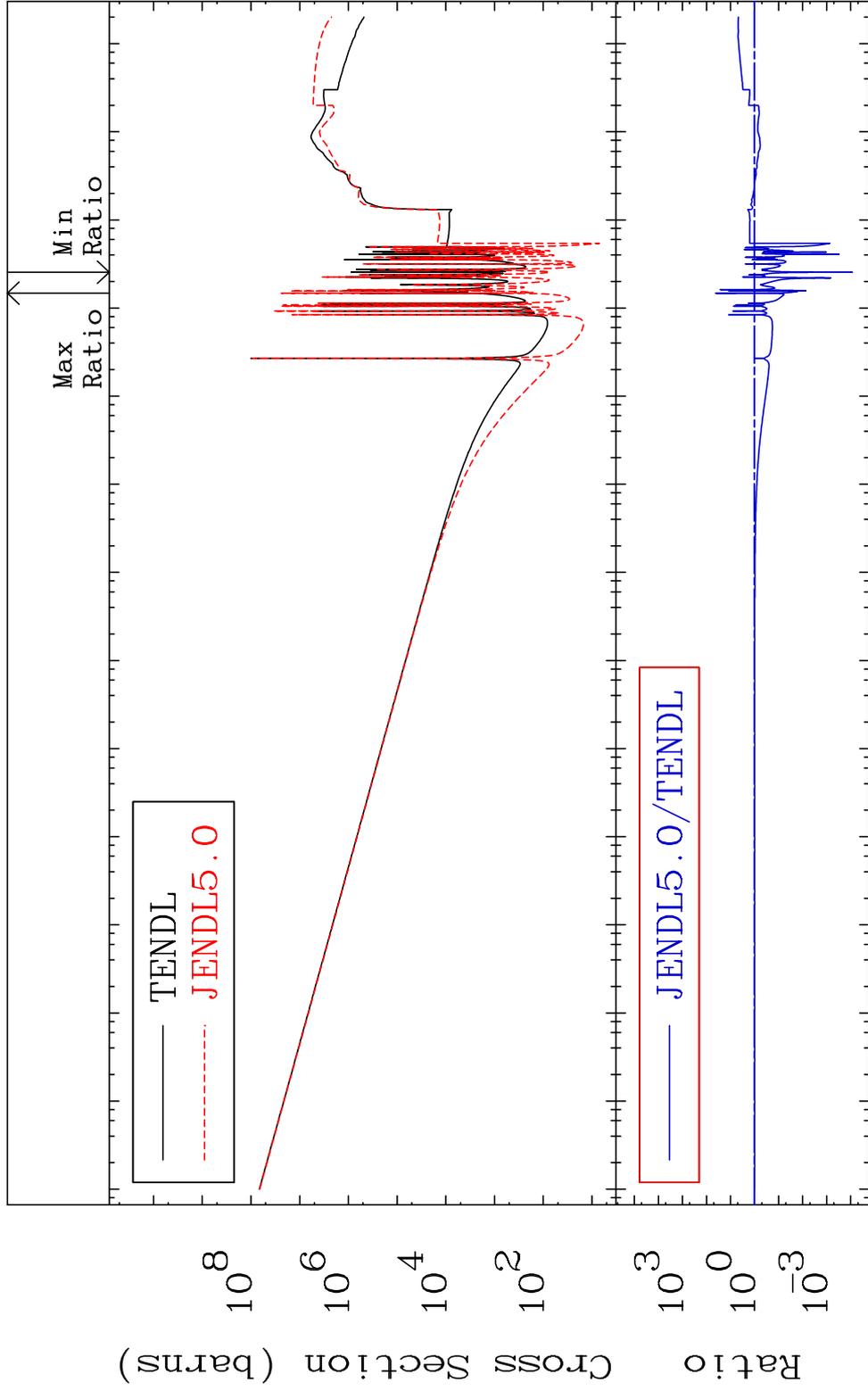
MAT 1525 Kerma fission (mt18 or mt19-20-21-38) 15-P -31
 Cross Section -100.0 To 9999. %



MAT 1525 Kerma capture (mt102) 15-P -31
 Cross Section -100.0 To 9999. %

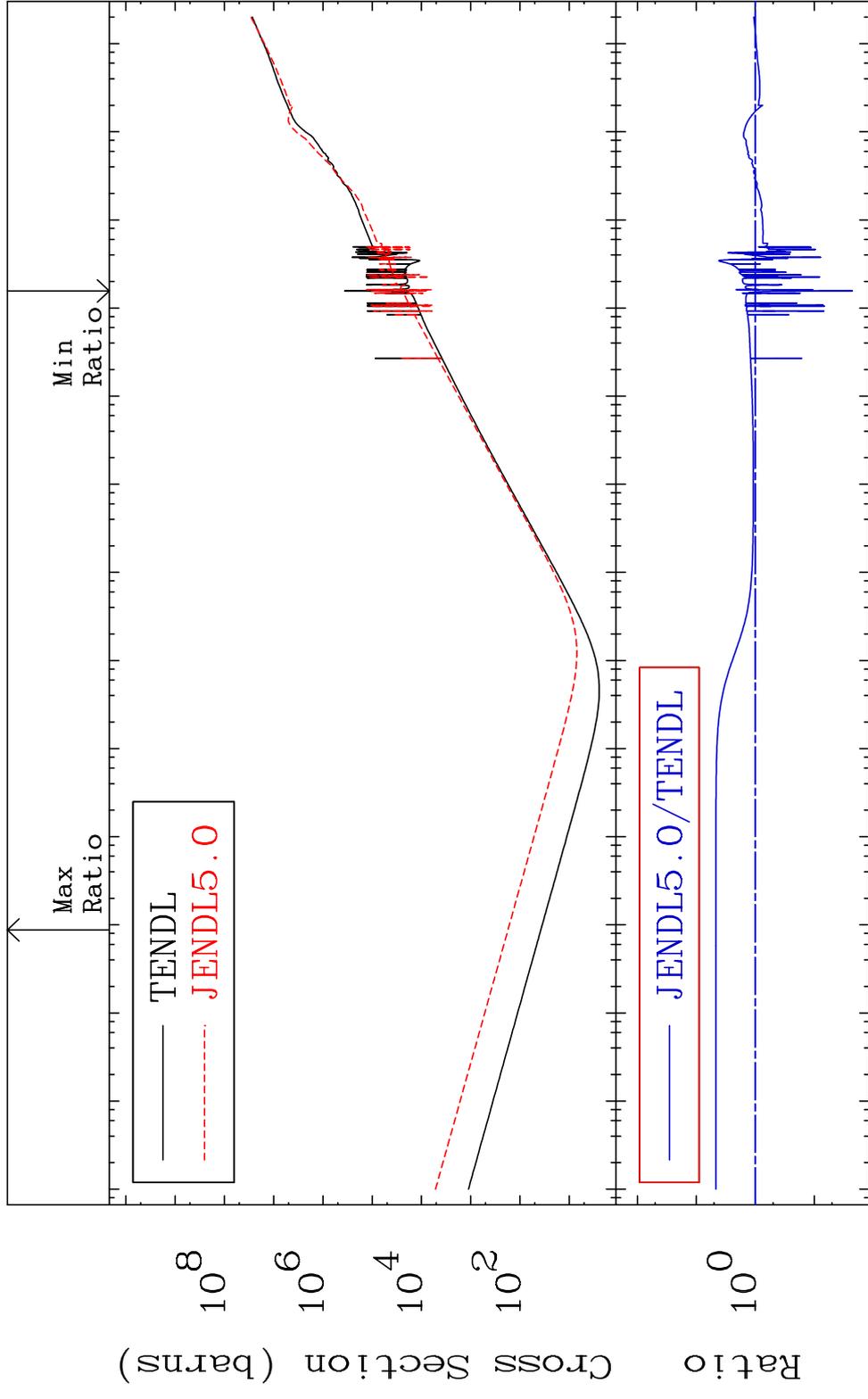


MAT 1525 Total photon (eV-barns) 15-P -31
 Cross Section -99.99 To 3960. %



29 Incident Energy (eV) 15-P -31

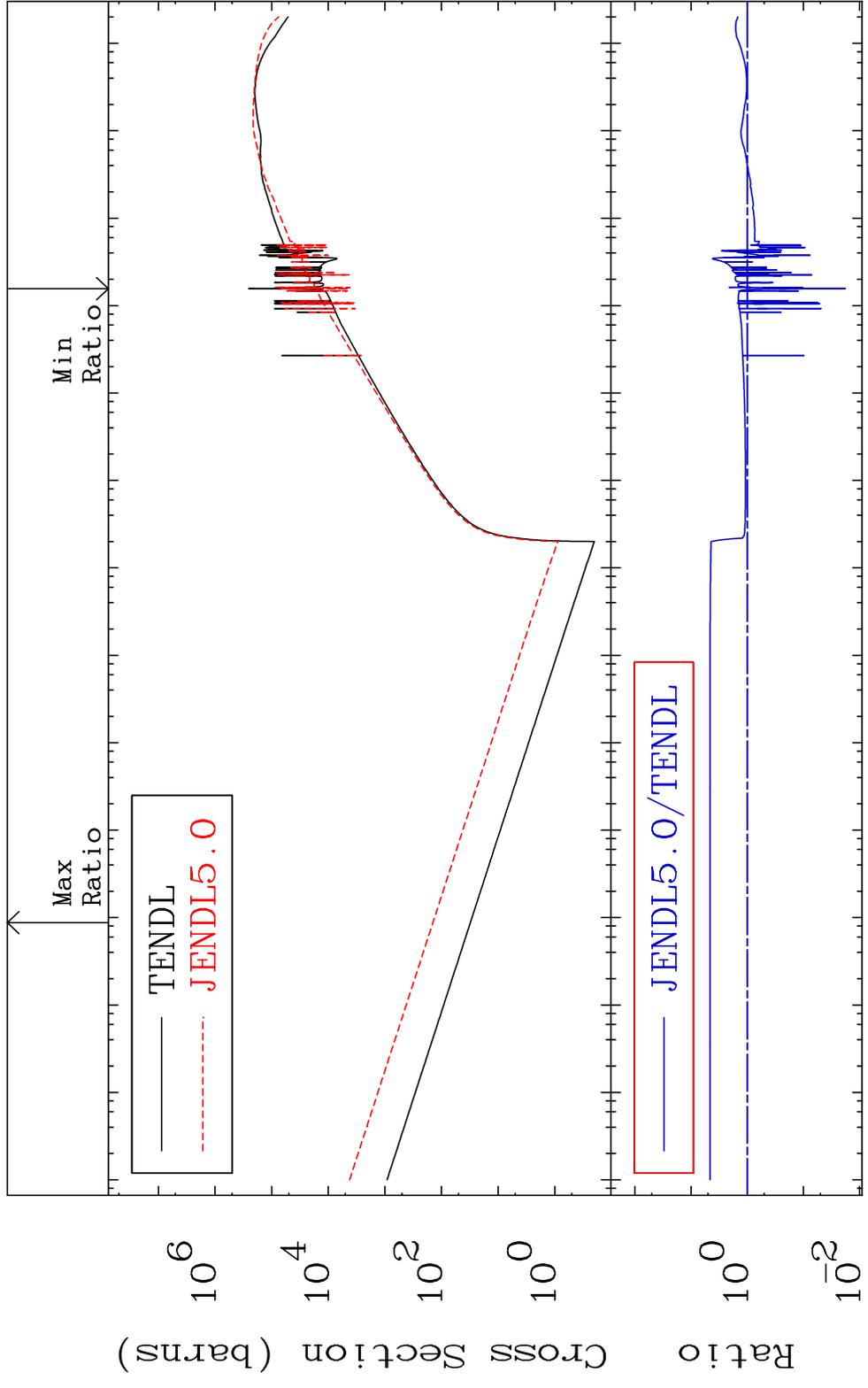
MAT 1525 Total kinematic kerma (high limit) 15-P -31
 Cross Section -97.76 To 365.8 %



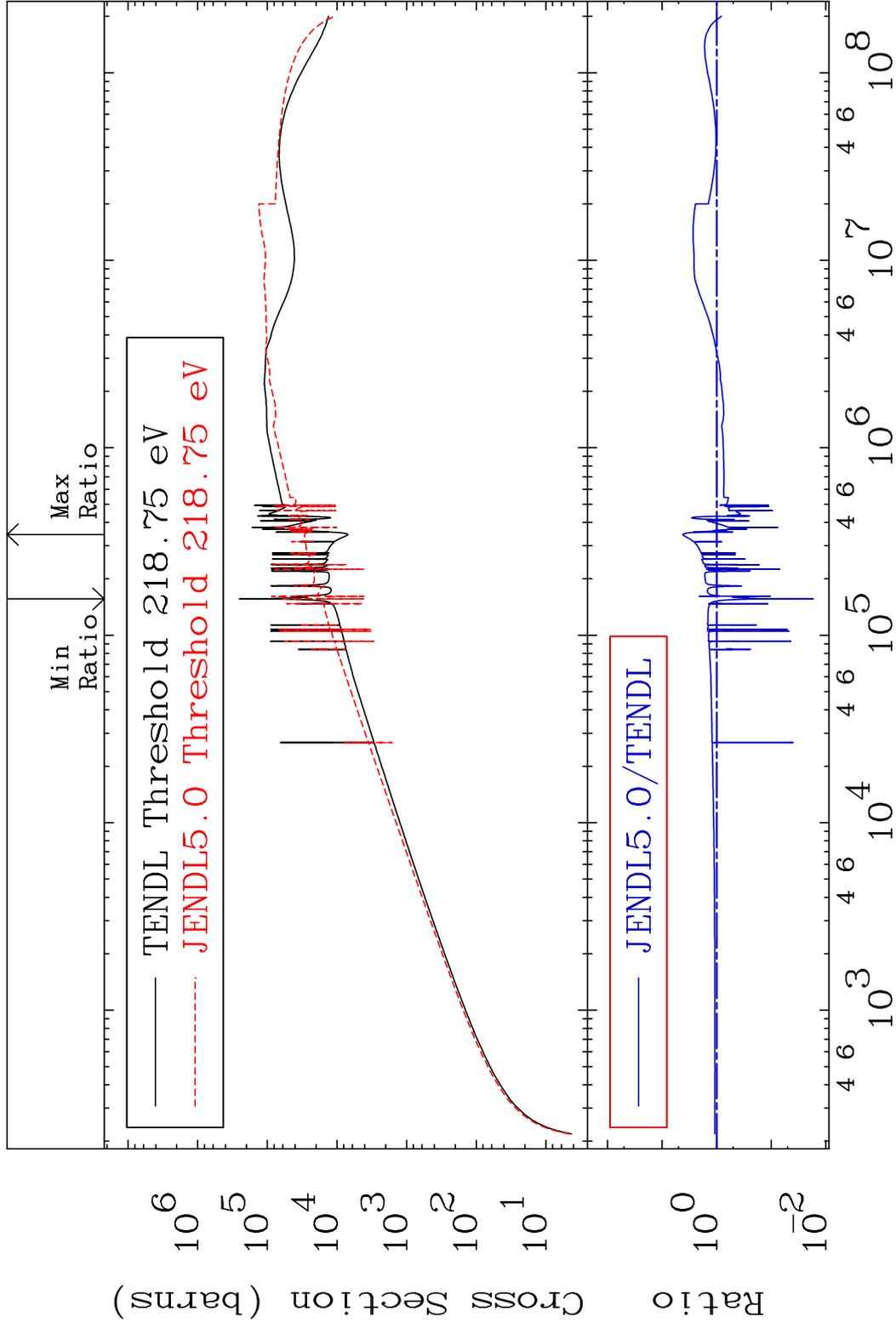
Ratio
 Cross Section (barns)
 Incident Energy (eV)

30 15-P -31

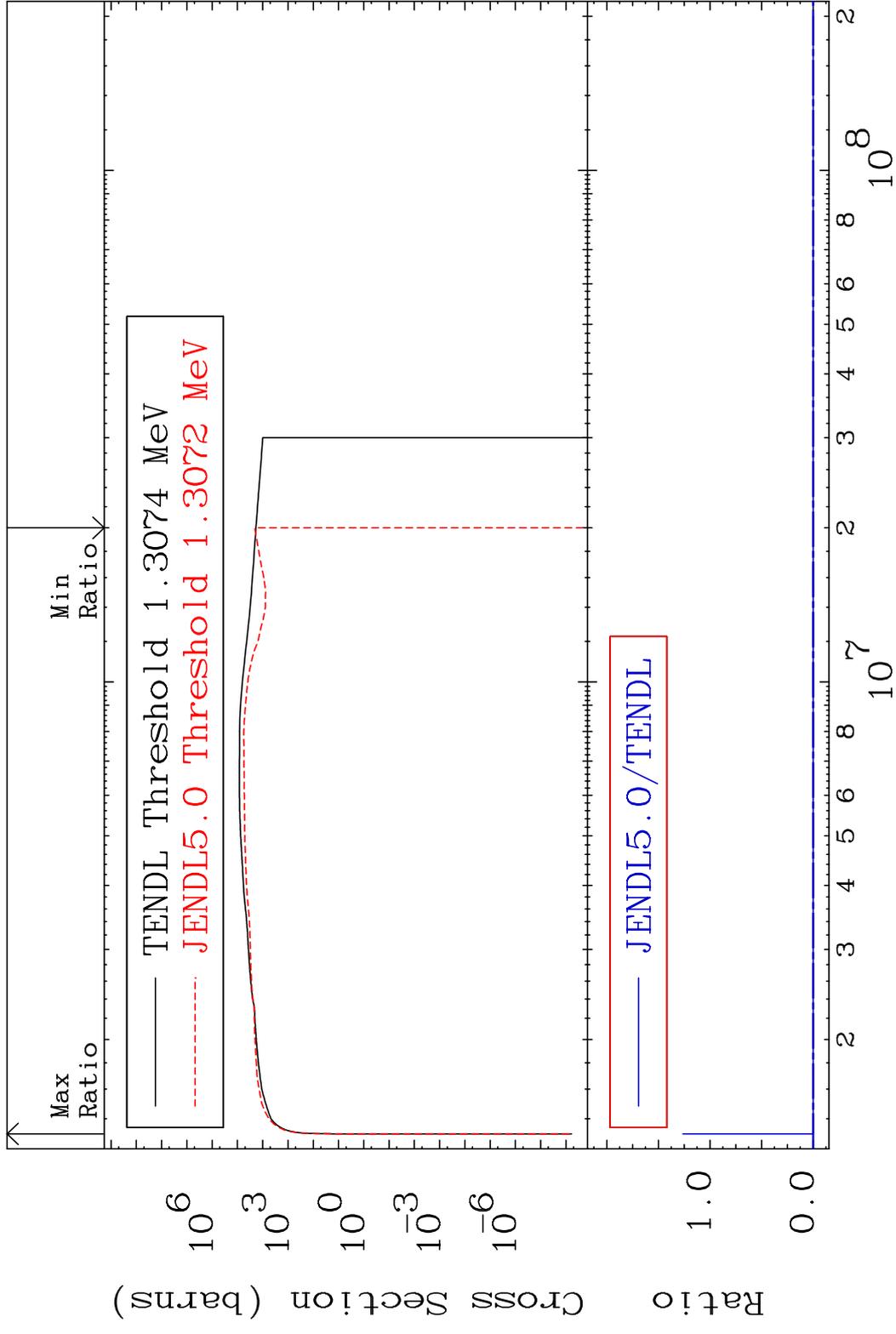
MAT 1525 Dpa total (eV-barns) 15-P -31
 Cross Section -98.22 To 359.2 %



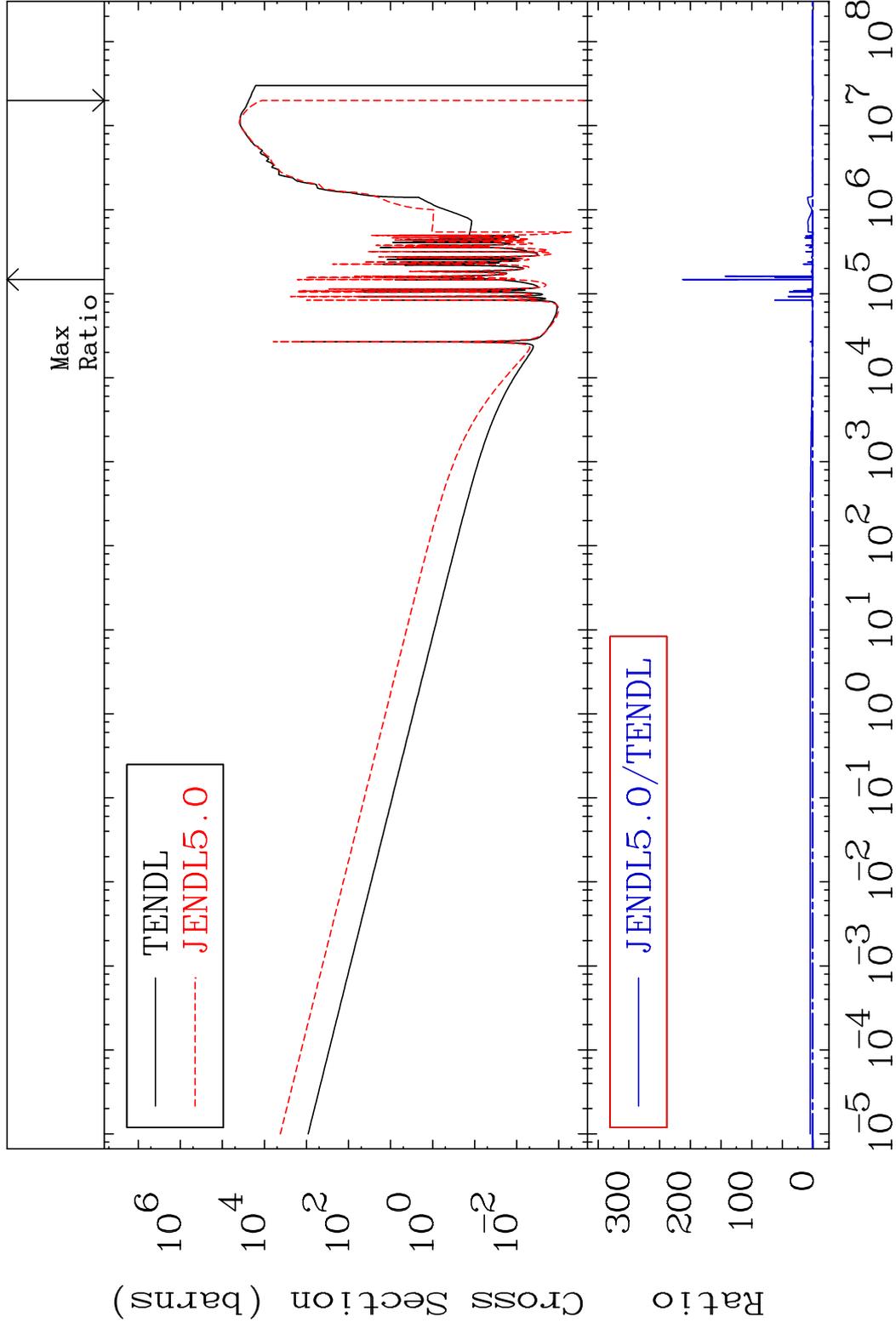
MAT 1525 Dpa elastic (mt2) 15-P -31
 Cross Section -98.30 To 315.8 %



MAT 1525 Dpa inelastic (mt51-91) 15-P -31
 Cross Section -100.0 To 9999. %



MAT 1525 Dpa disappearance (mt102 -120) 15-P -31
 Cross Section -100.0 To 9999. %

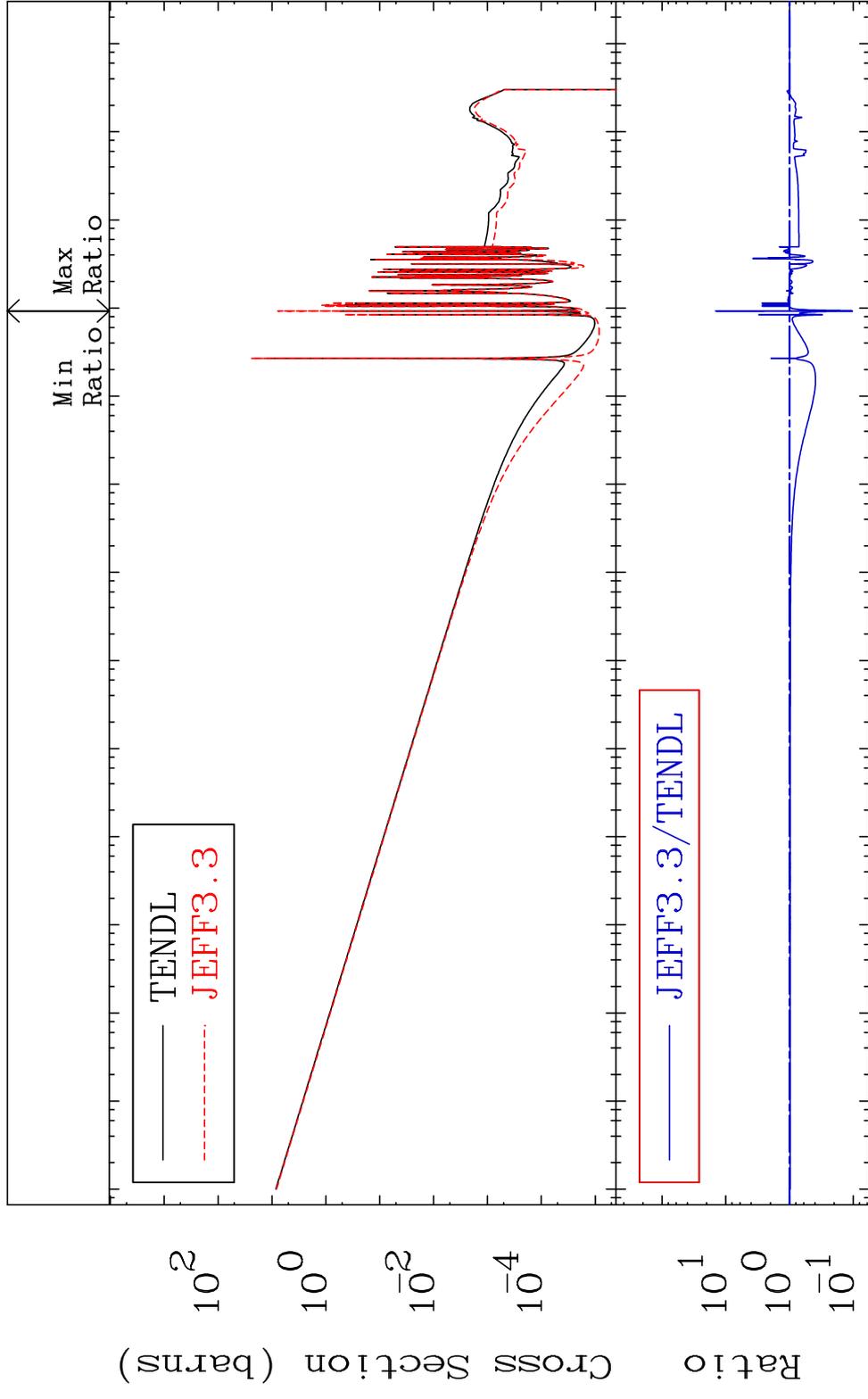


MAT 1525

(n, γ)

15-P -31

Cross Section -89.72 To 1333. %

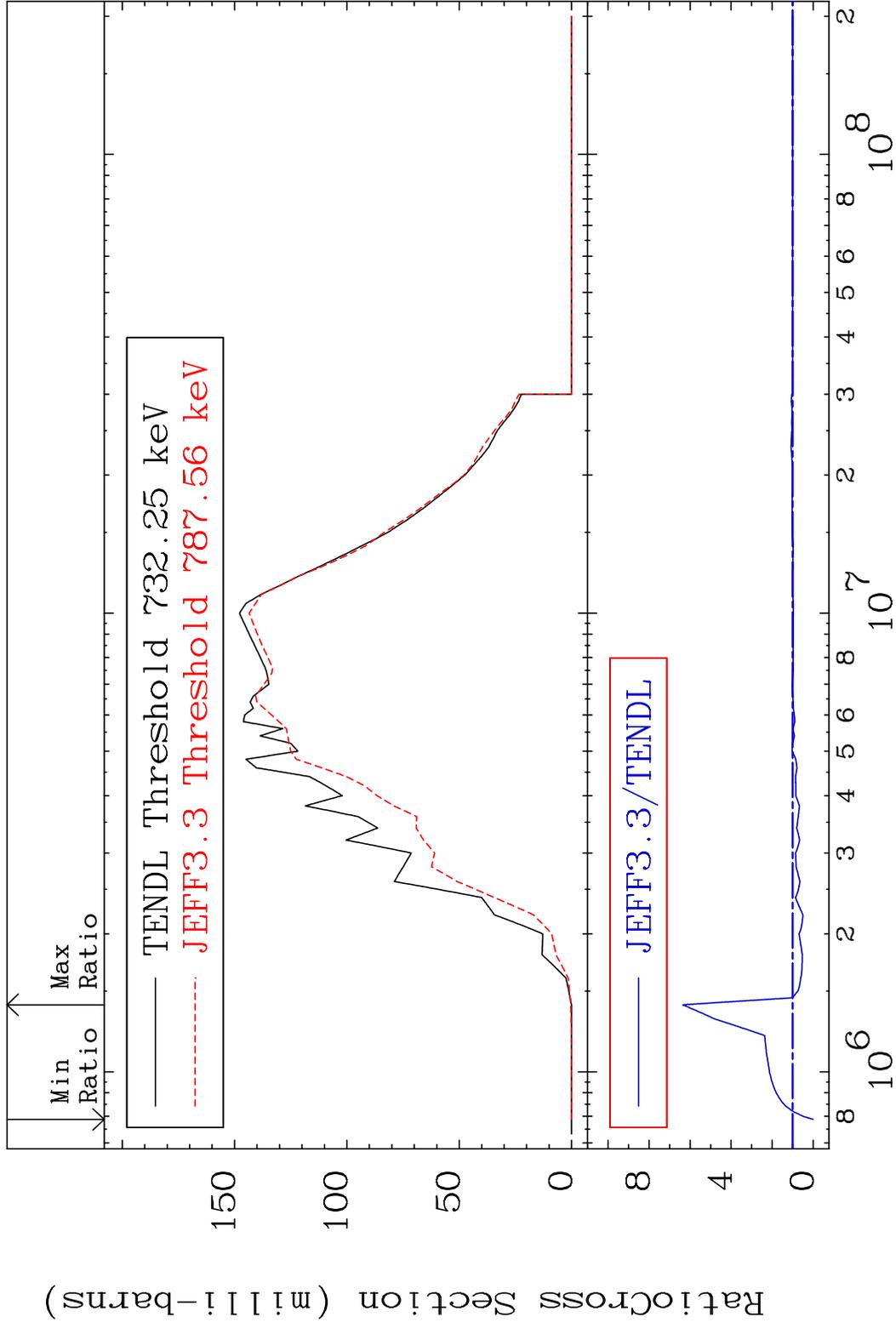


35

Incident Energy (eV)

15-P -31

MAT 1525 (n,p) 15-P -31
 Cross Section -100.0 To 535.4 %



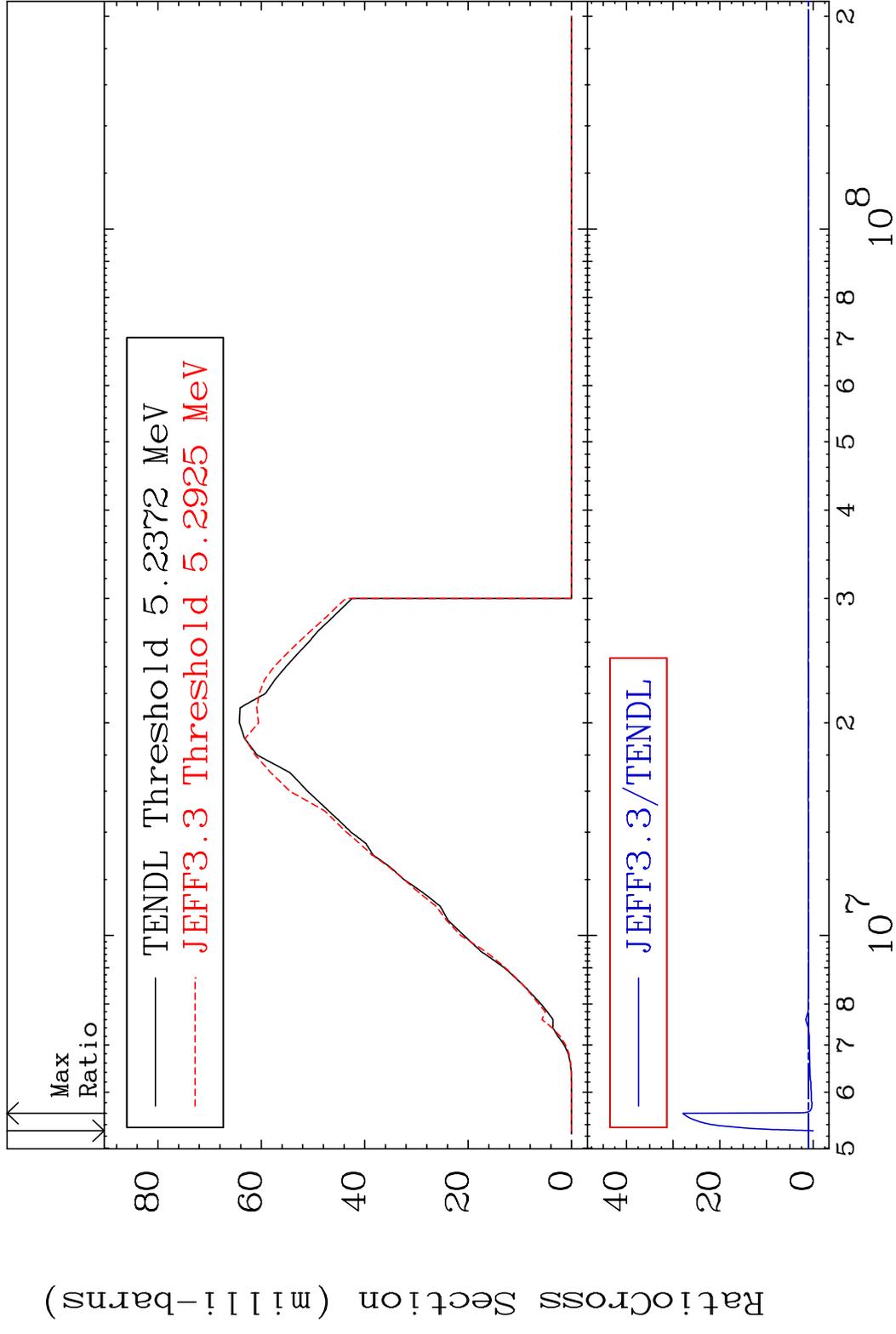
36 Incident Energy (eV) 15-P -31

MAT 1525

(n,d)

15-P -31

Cross Section -100.0 To 2692. %



37

Incident Energy (eV)

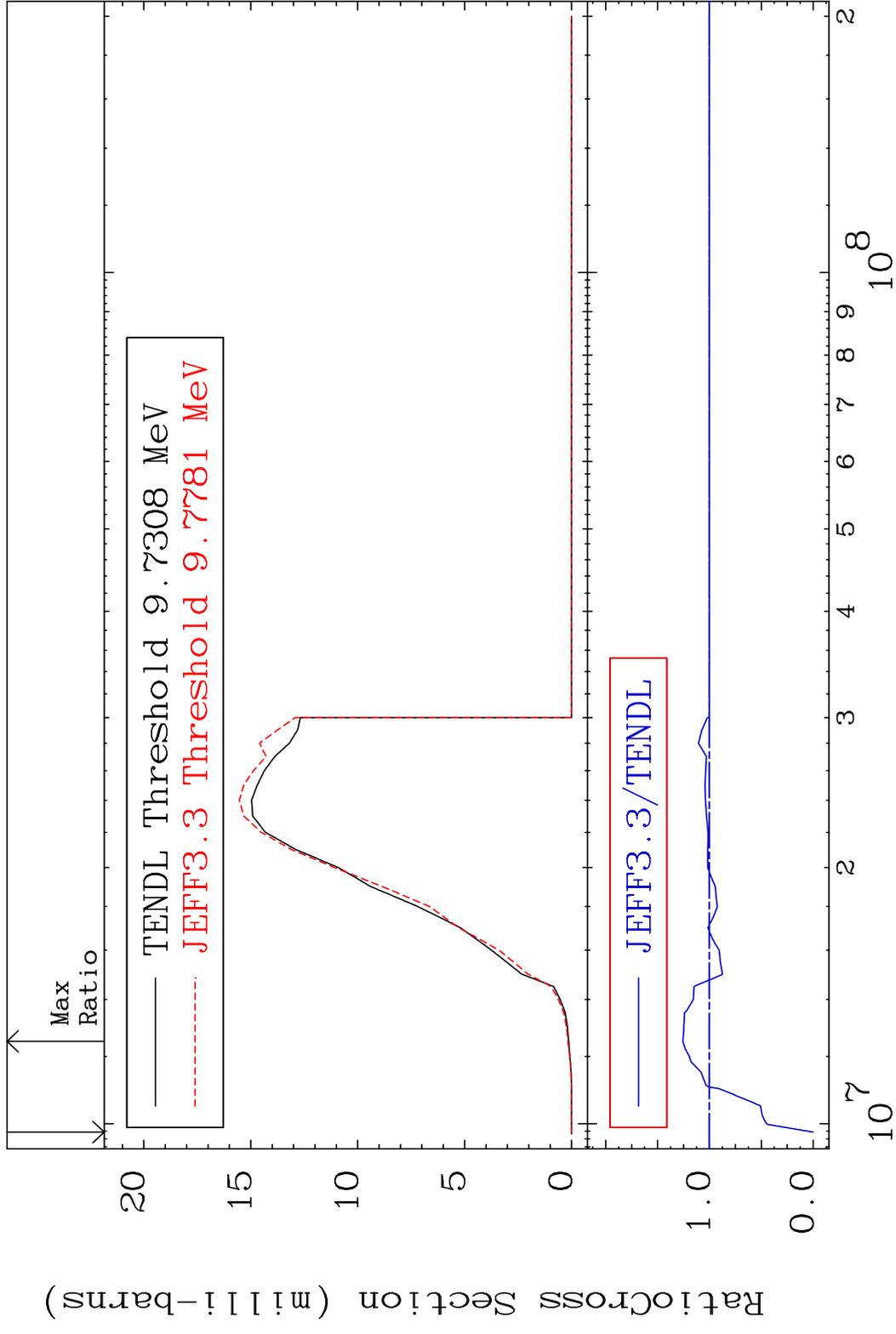
15-P -31

MAT 1525

(n, t)

15-P -31

Cross Section -100.0 To 25.65 %



38

Incident Energy (eV)

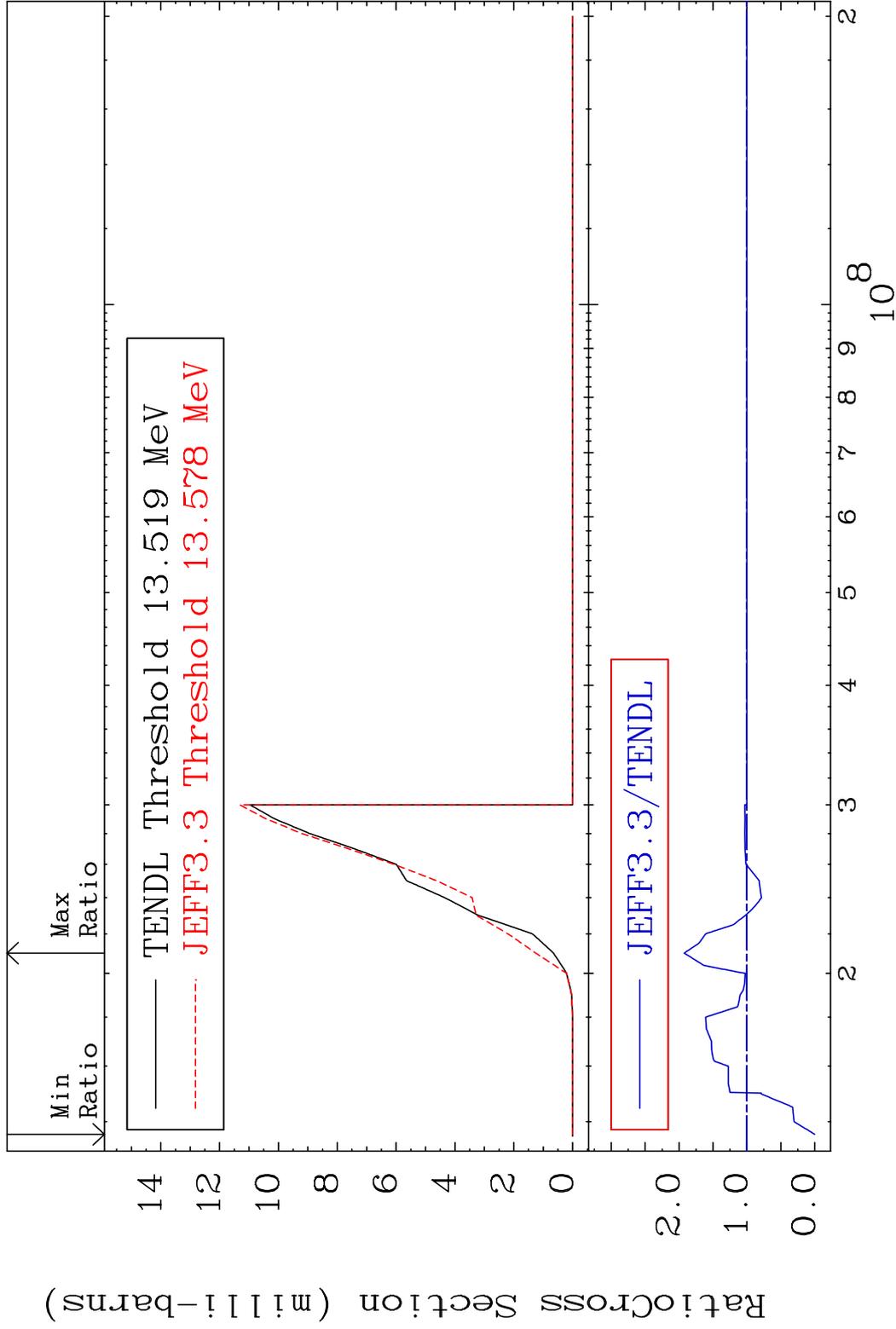
15-P -31

MAT 1525

(n, He-3)

15-P -31

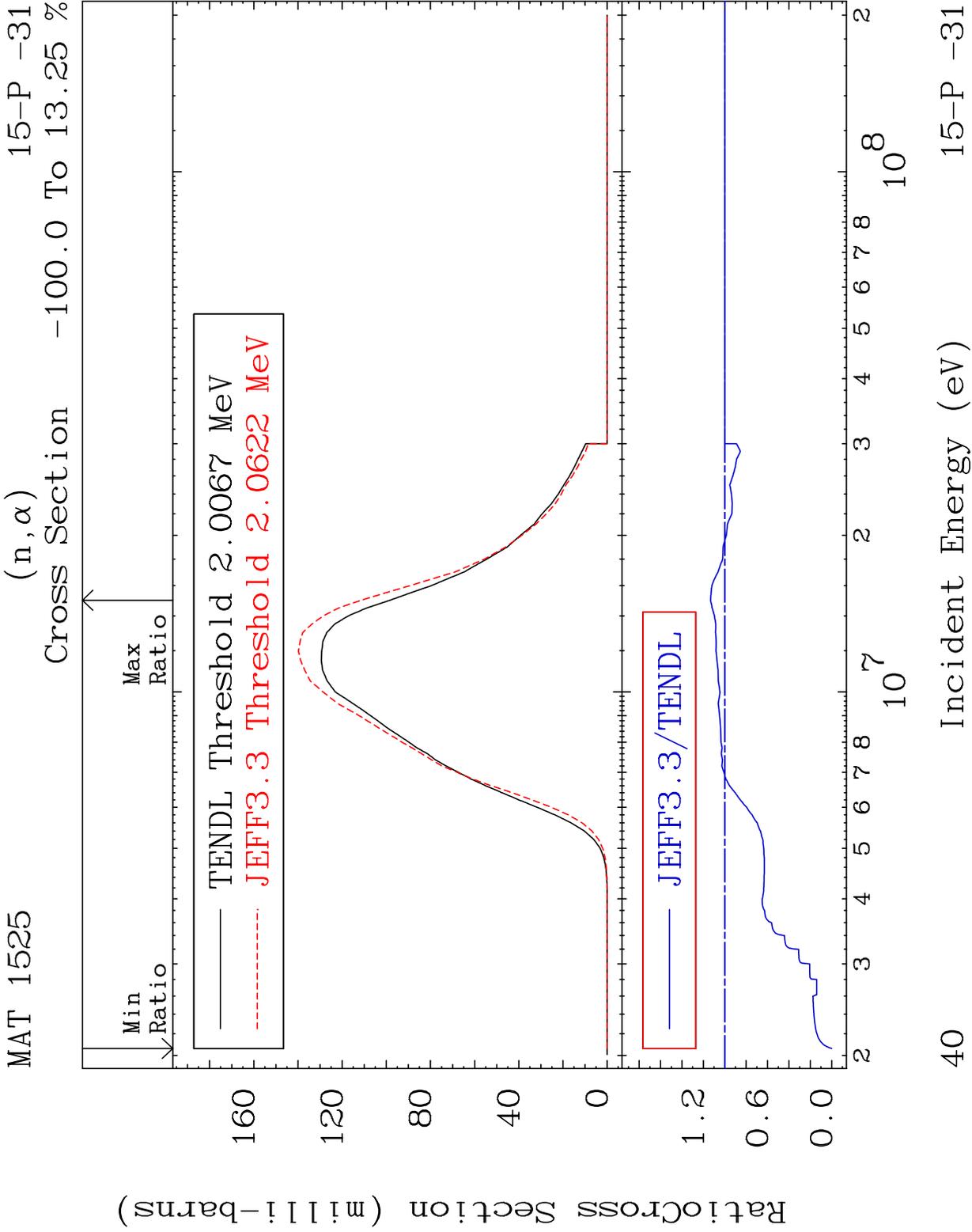
Cross Section -100.0 To 92.52 %



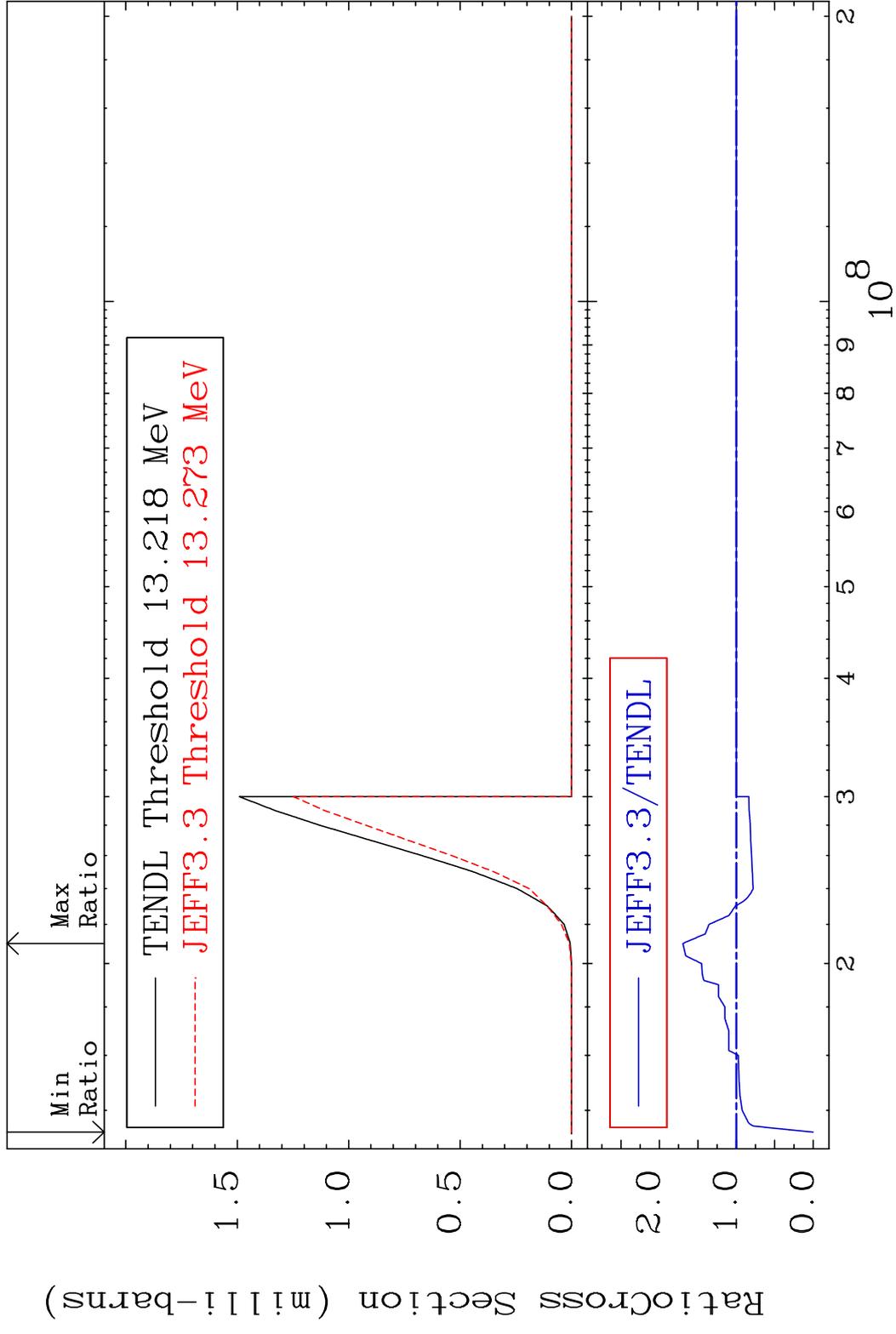
39

Incident Energy (eV)

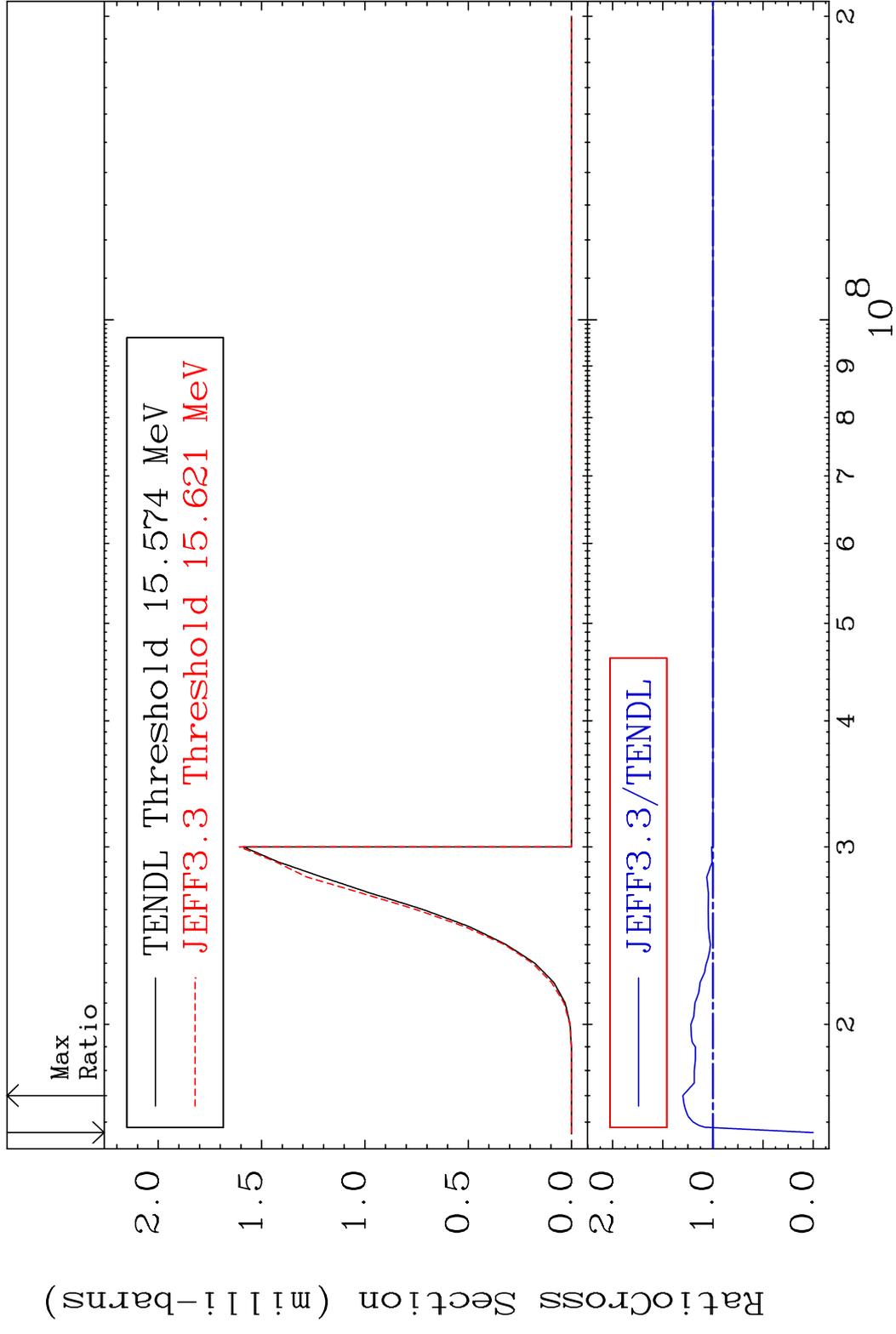
15-P -31



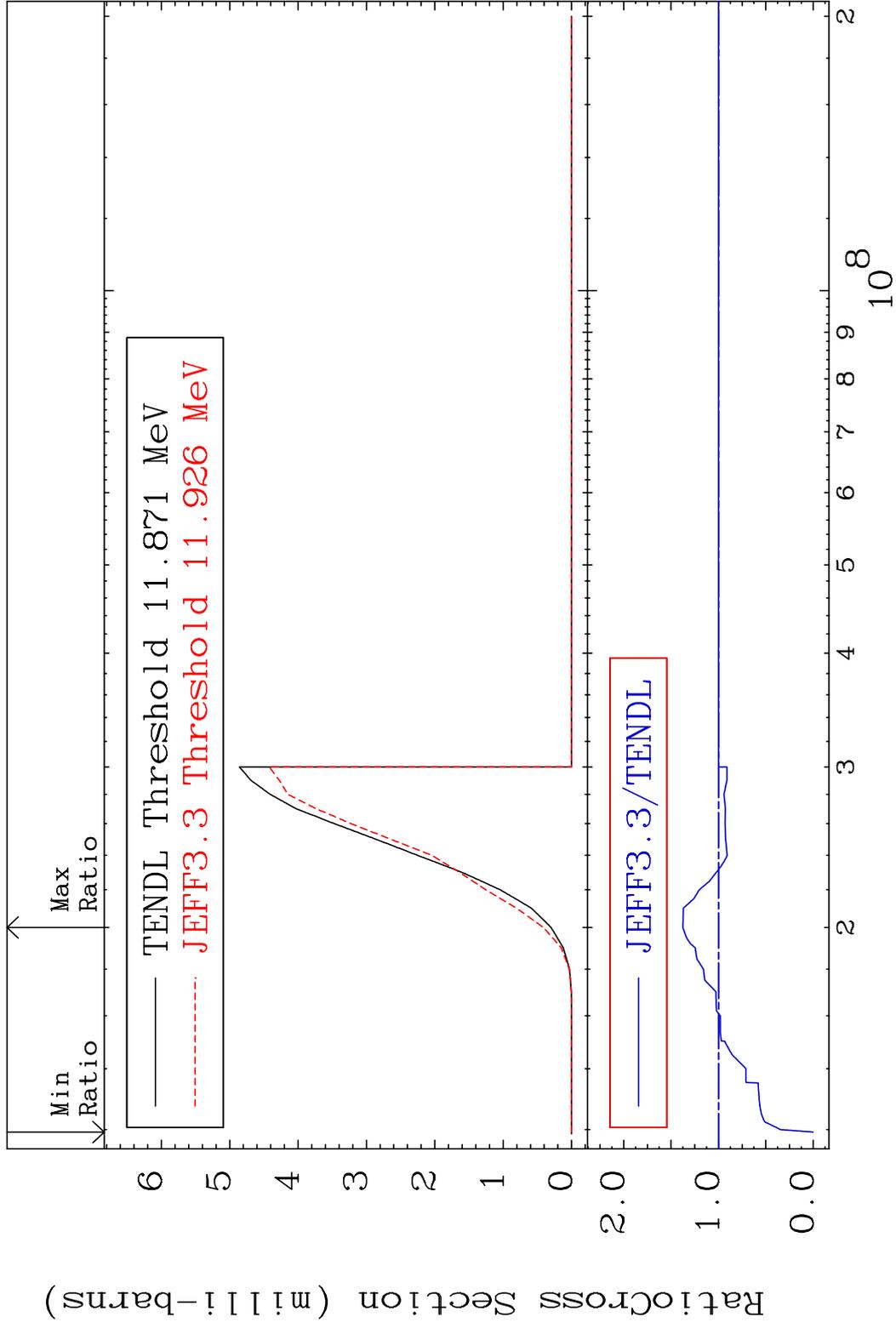
MAT 1525 (n,2α) 15-P -31
 Cross Section -100.0 To 69.52 %



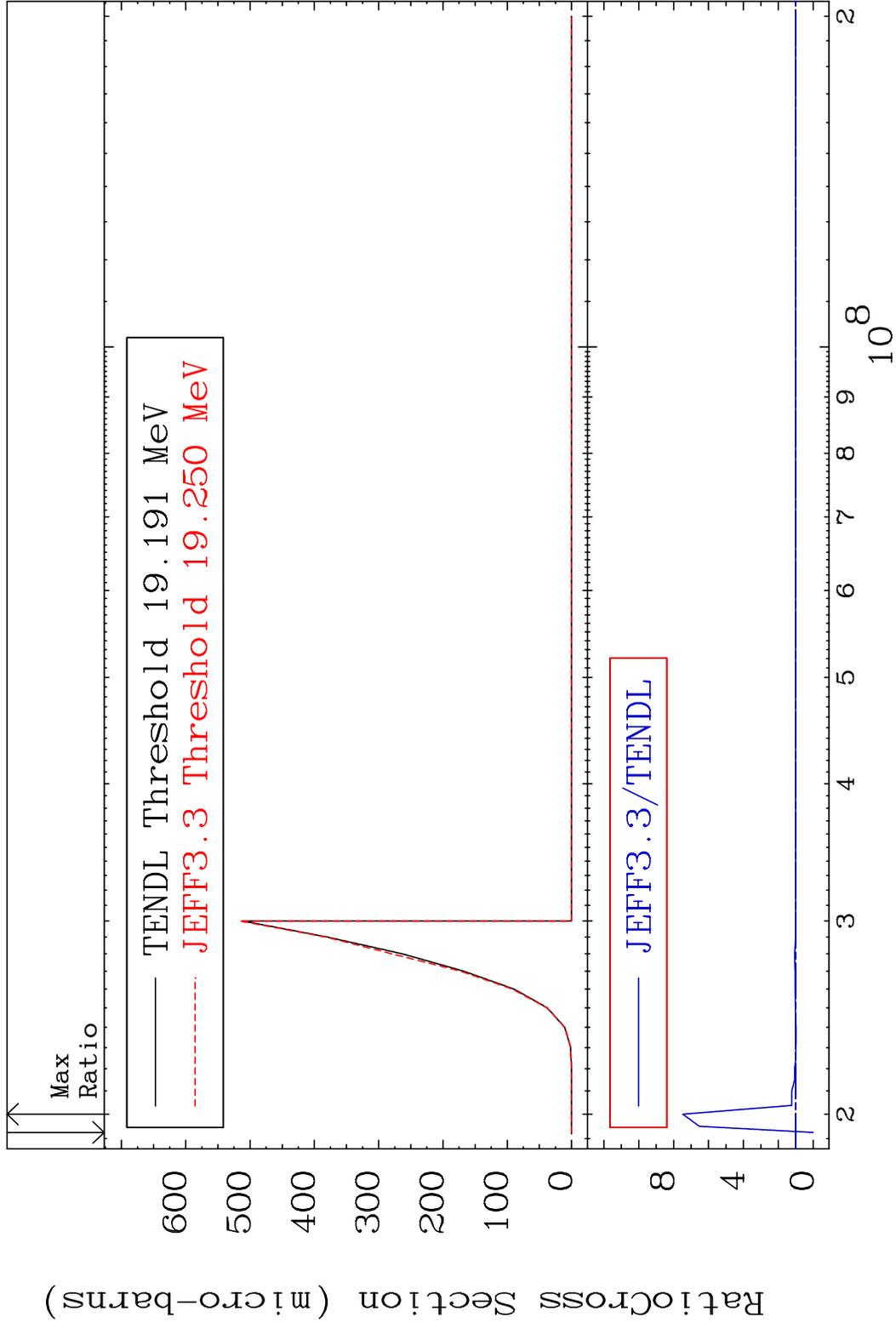
MAT 1525 (n,2p) 15-P -31
 Cross Section -100.0 To 30.00 %



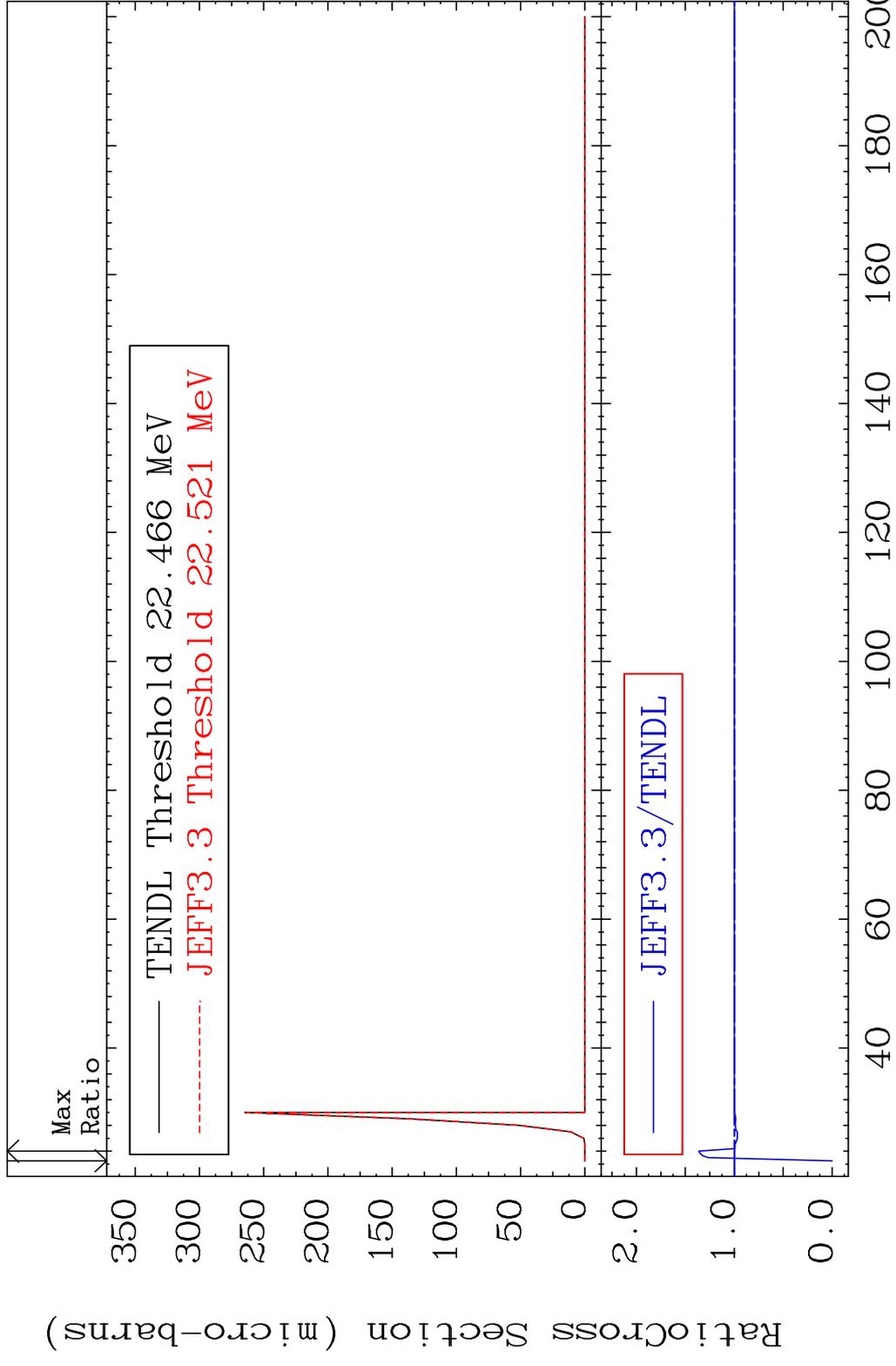
MAT 1525 (n,p) α 15-P -31
 Cross Section -100.0 To 37.59 %



MAT 1525 (n,p) d 15-P -31
 Cross Section -100.0 To 647.2 %

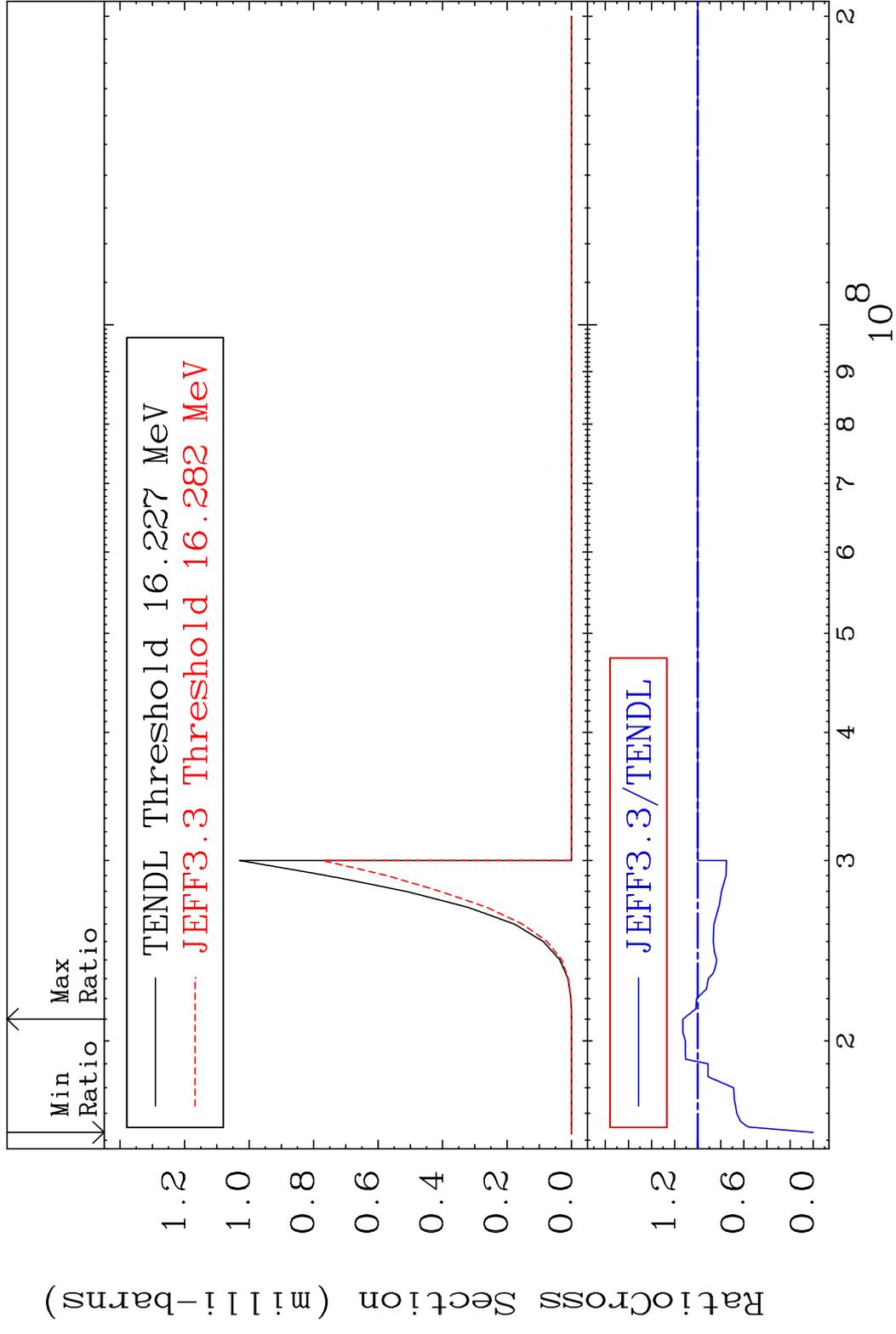


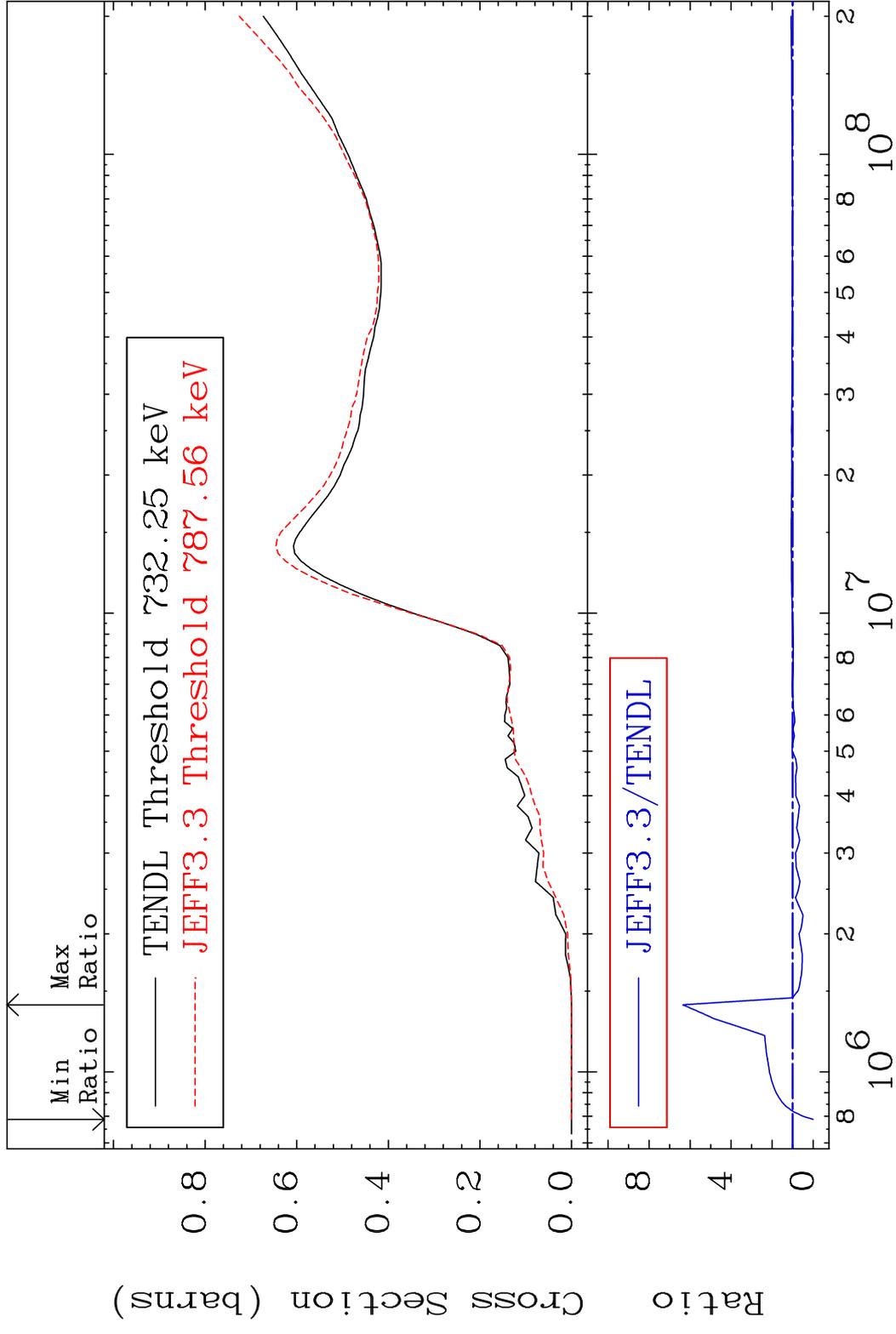
MAT 1525 (n,p) t 15-P -31
 Cross Section -100.0 To 36.28 %



45 Incident Energy (MeV) 15-P -31

MAT 1525 (n,d) α 15-P -31
 Cross Section -100.0 To 12.89 %



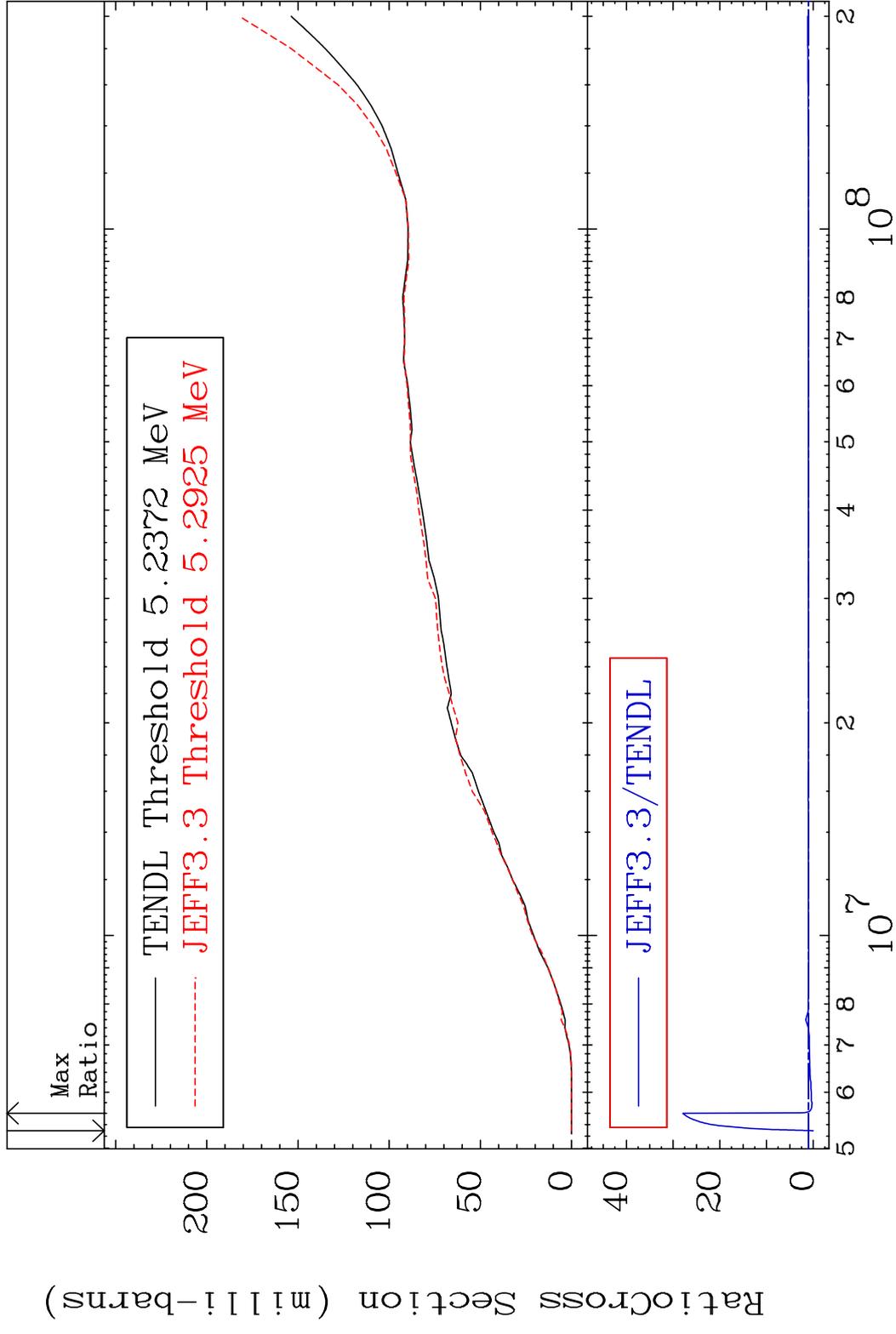


MAT 1525

Deuterium Production

15-P -31

Cross Section -100.0 To 2692. %

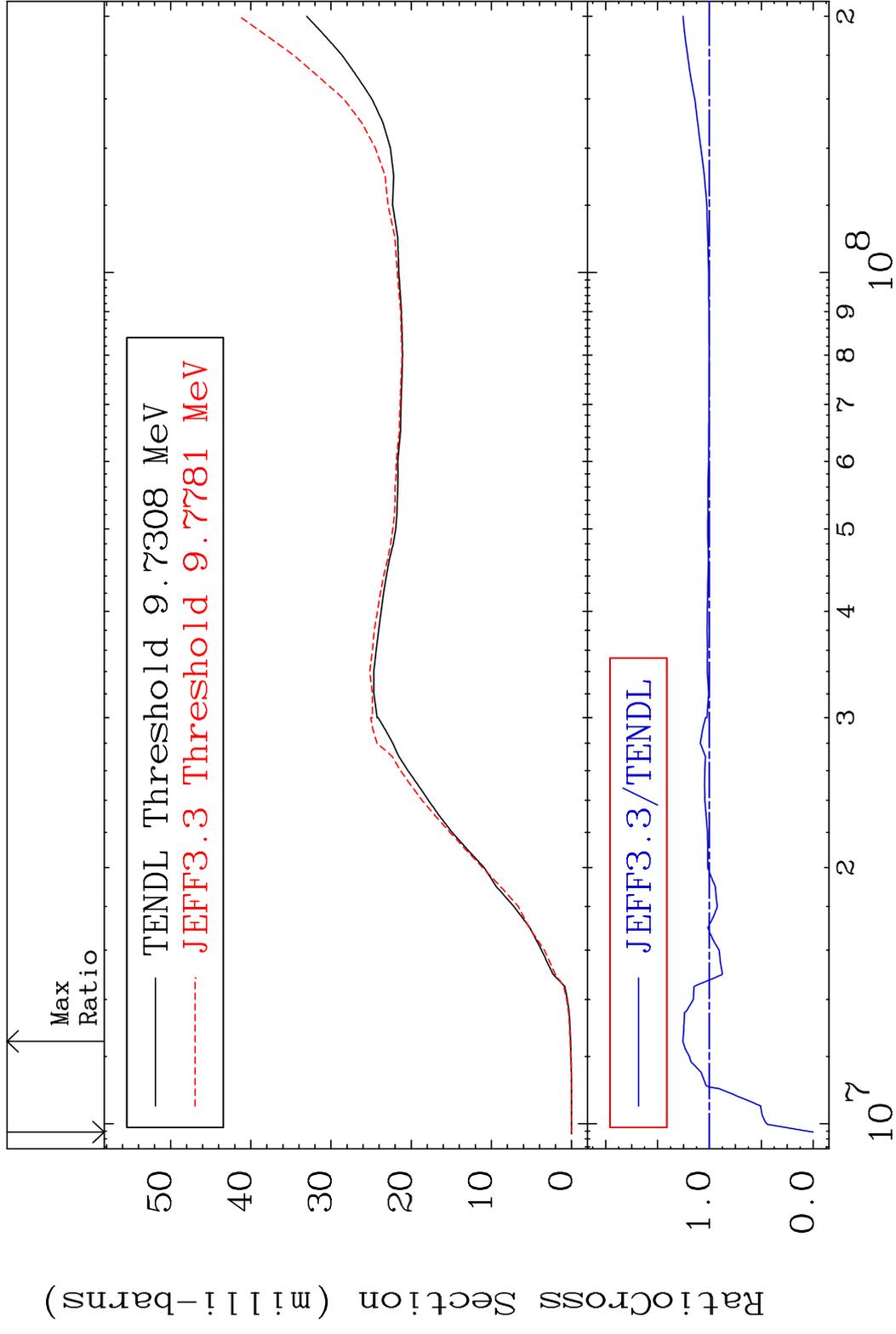


48

Incident Energy (eV)

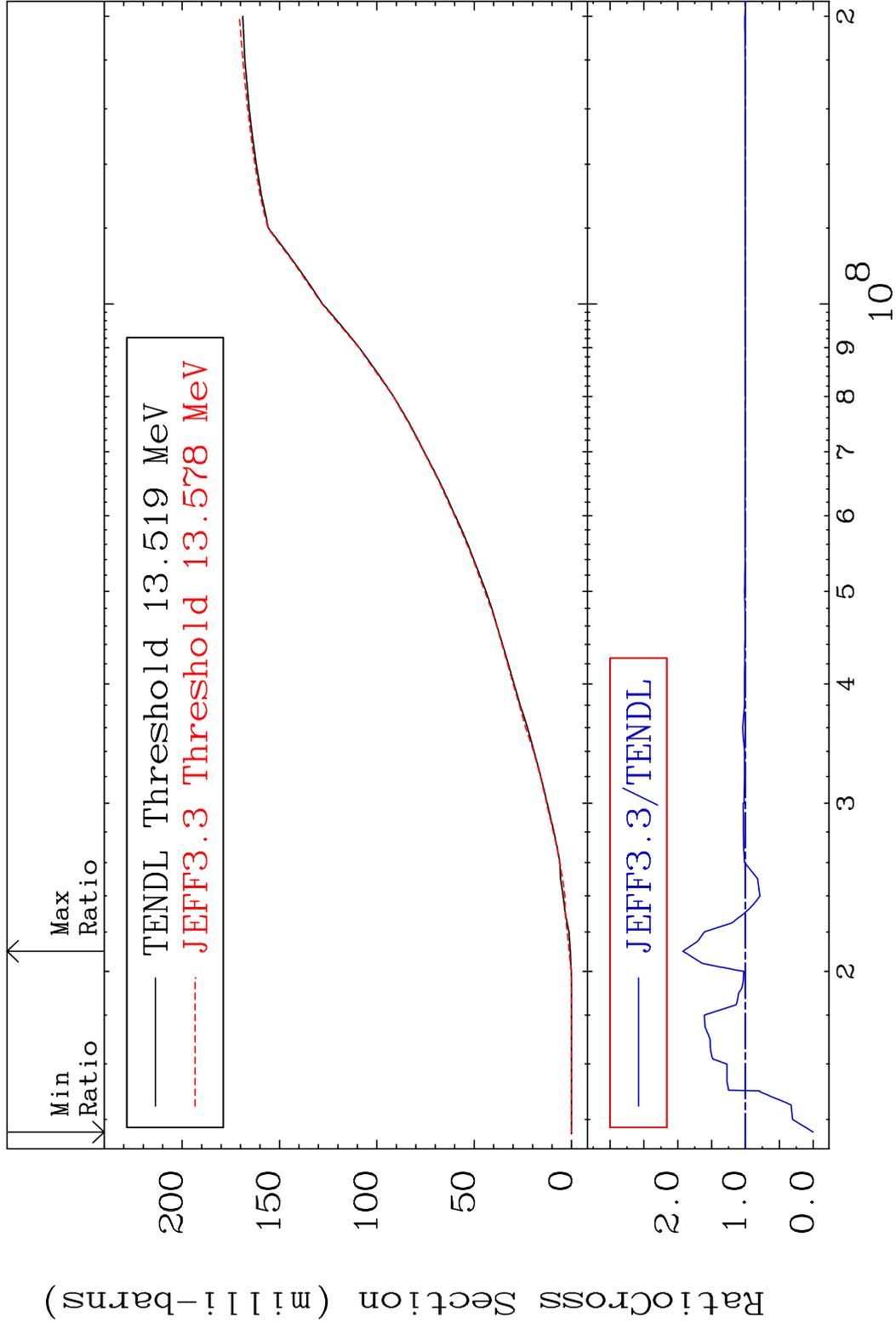
15-P -31

MAT 1525 Tritium Production 15-P -31
 Cross Section -100.0 To 25.65 %



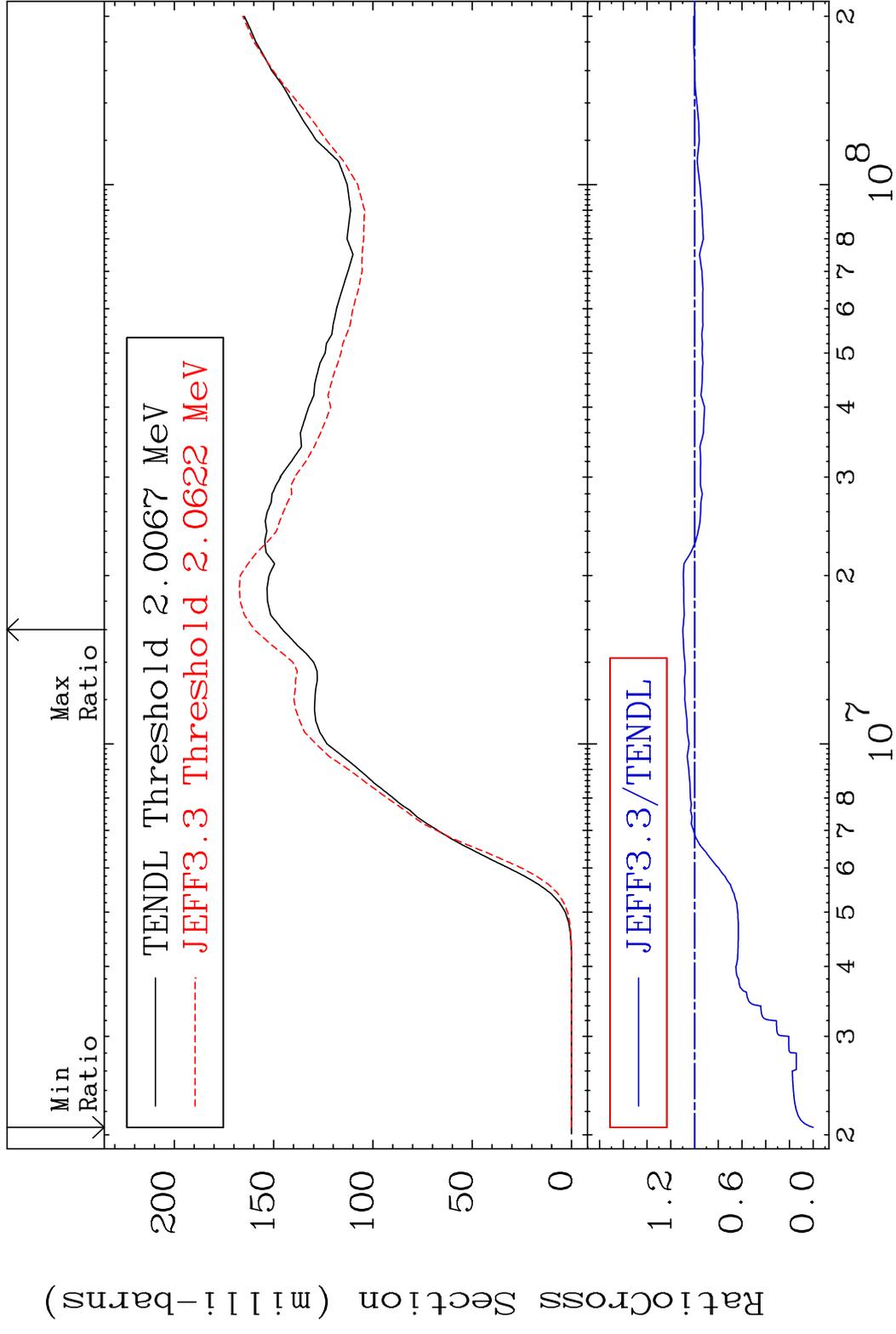
49 Incident Energy (eV) 15-P -31

MAT 1525 He-3 Production 15-P -31
 Cross Section -100.0 To 92.52 %

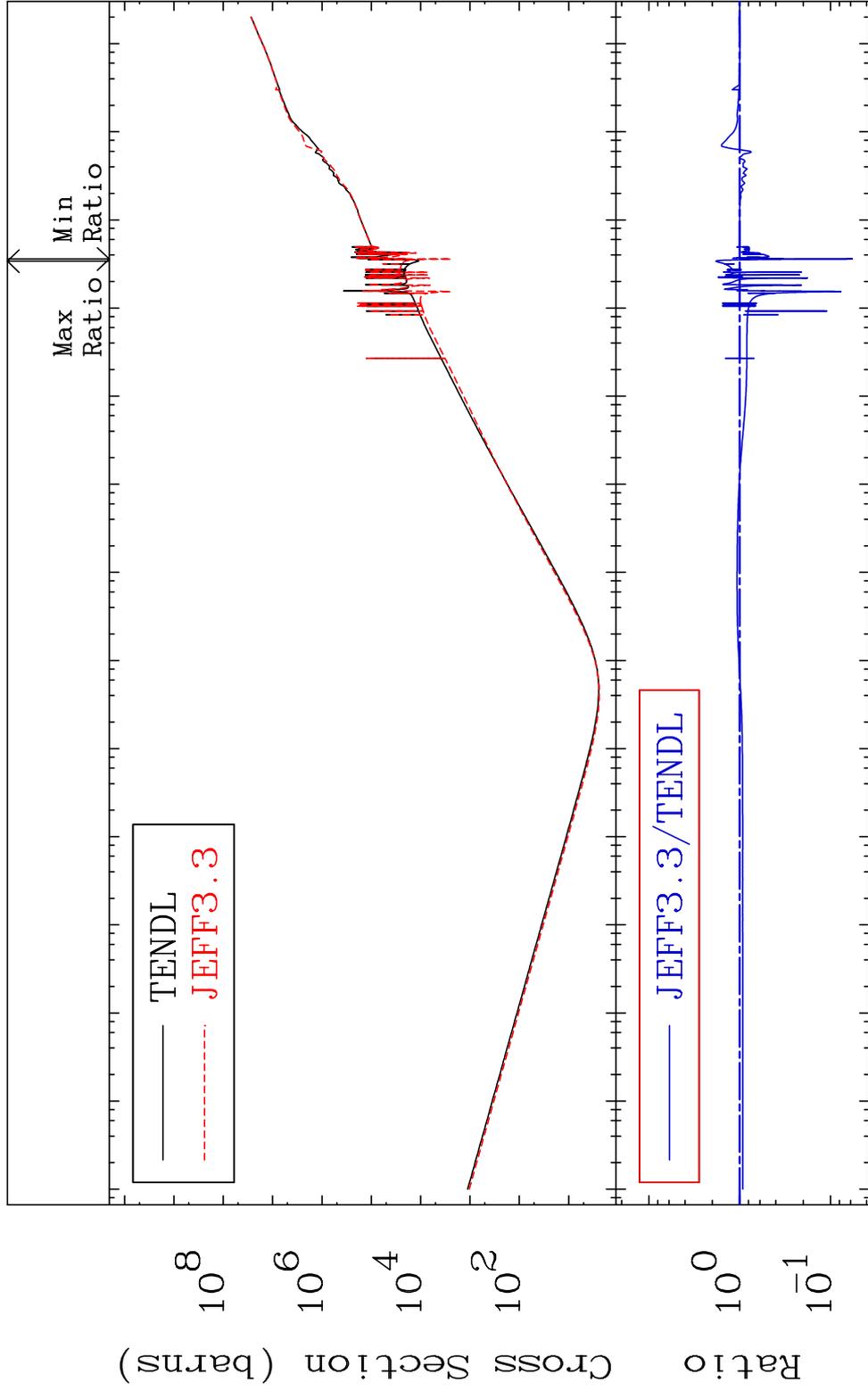


50 Incident Energy (eV) 15-P -31

MAT 1525 He-4 Production 15-P -31
 Cross Section -100.0 To 9.811 %



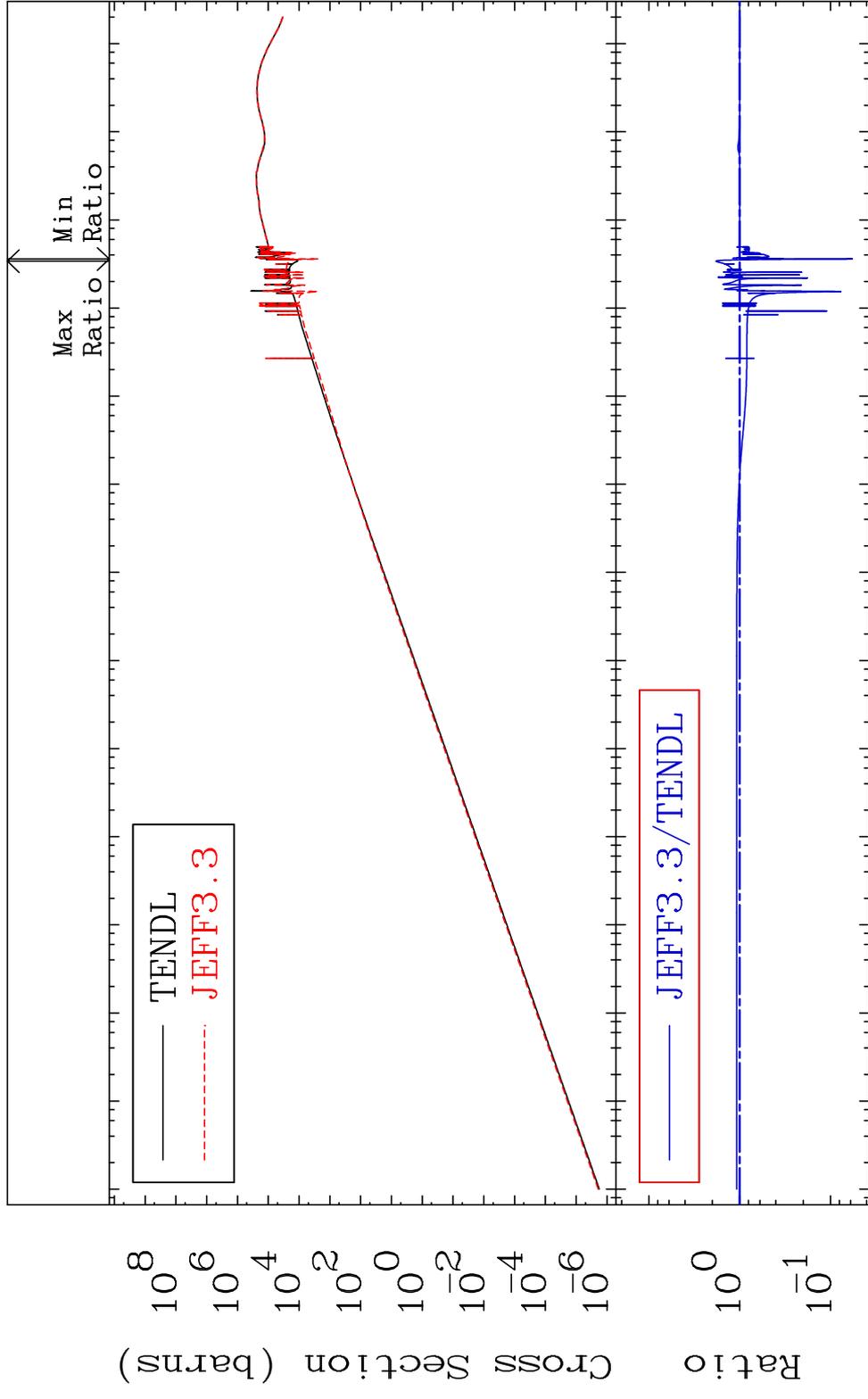
MAT 1525 Kerma total (eV-barns) 15-P -31
 Cross Section -94.27 To 82.95 %



MAT 1525

Kerma elastic
Cross Section

15-P -31
-94.27 To 82.95 %

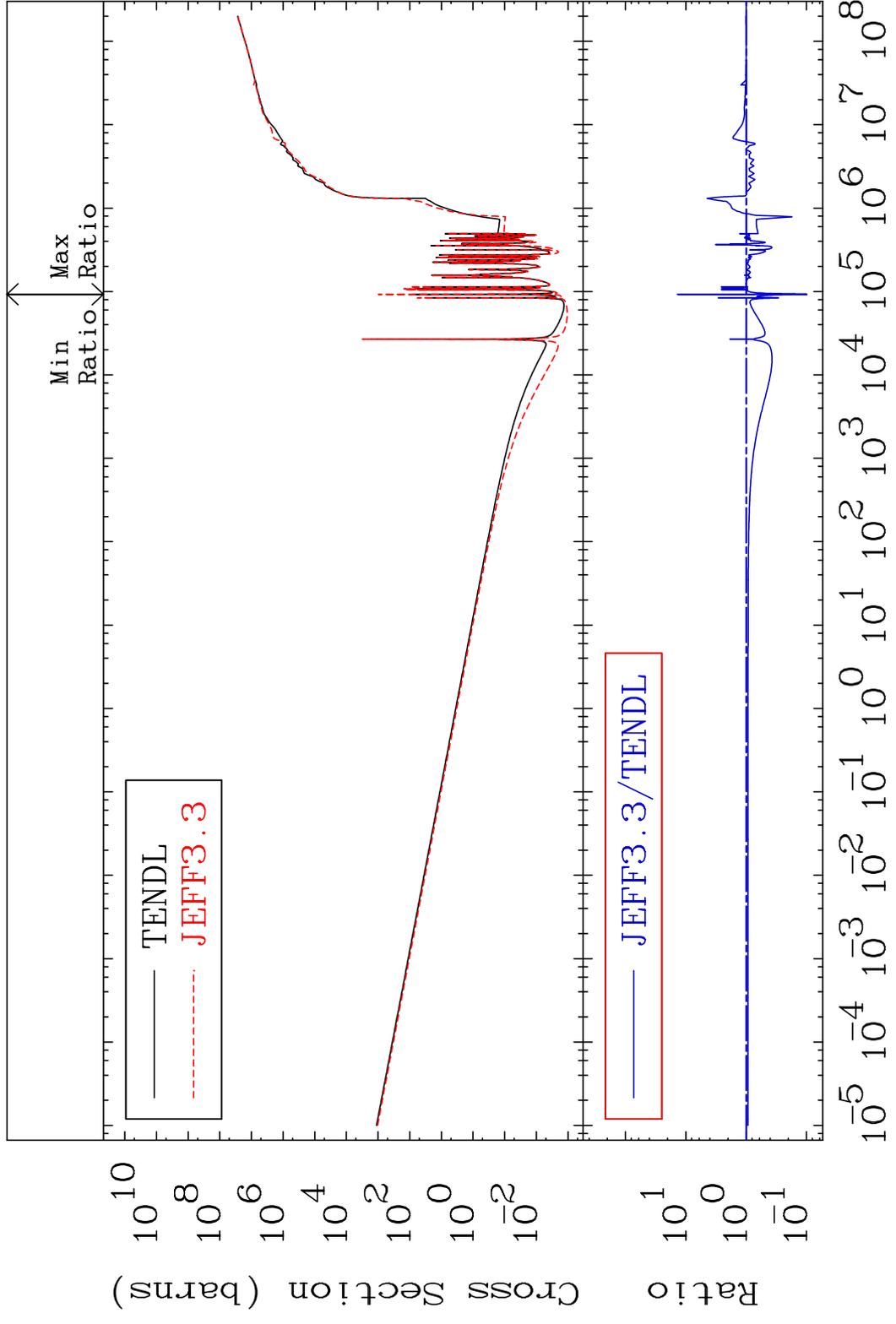


53

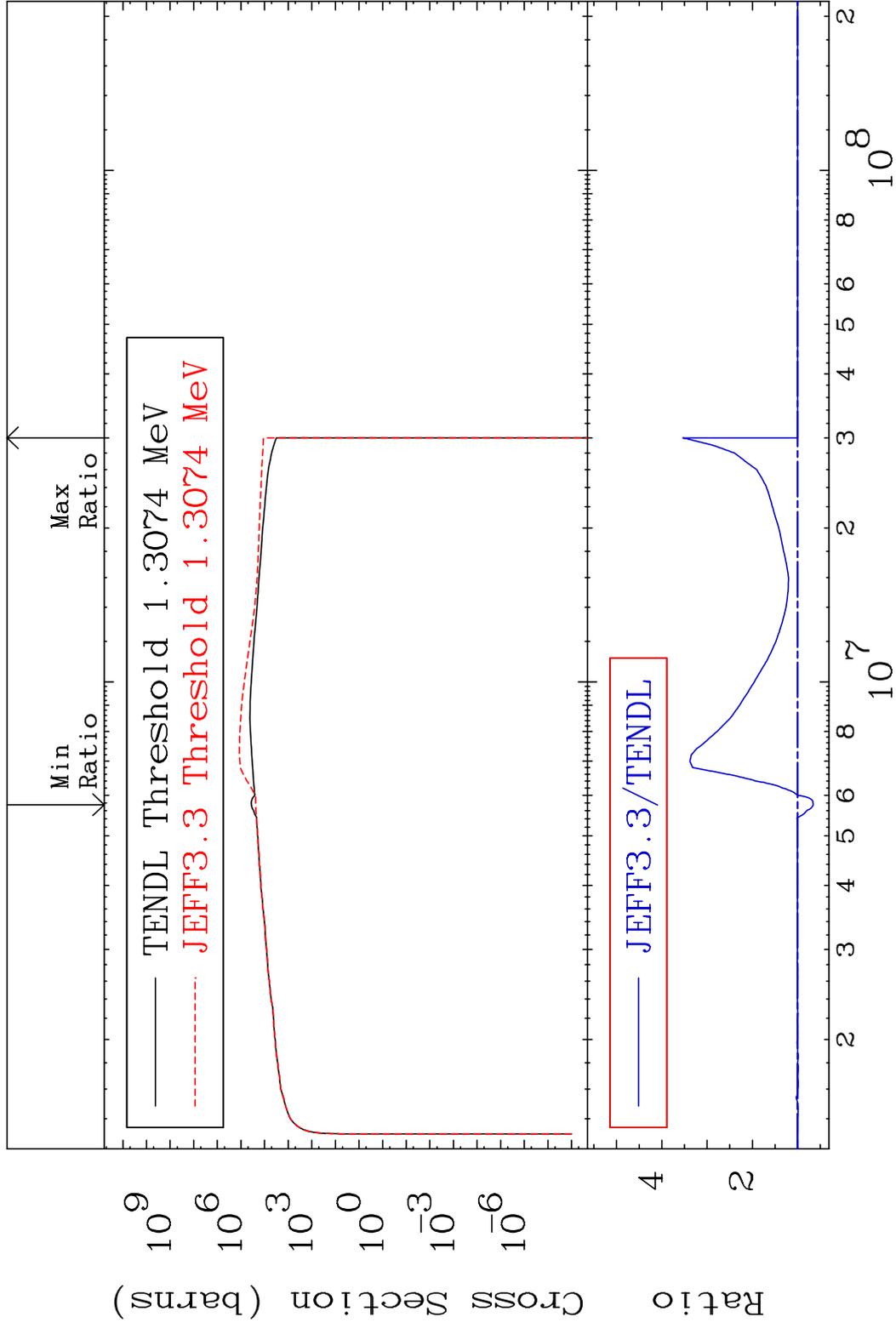
Incident Energy (eV)

15-P -31

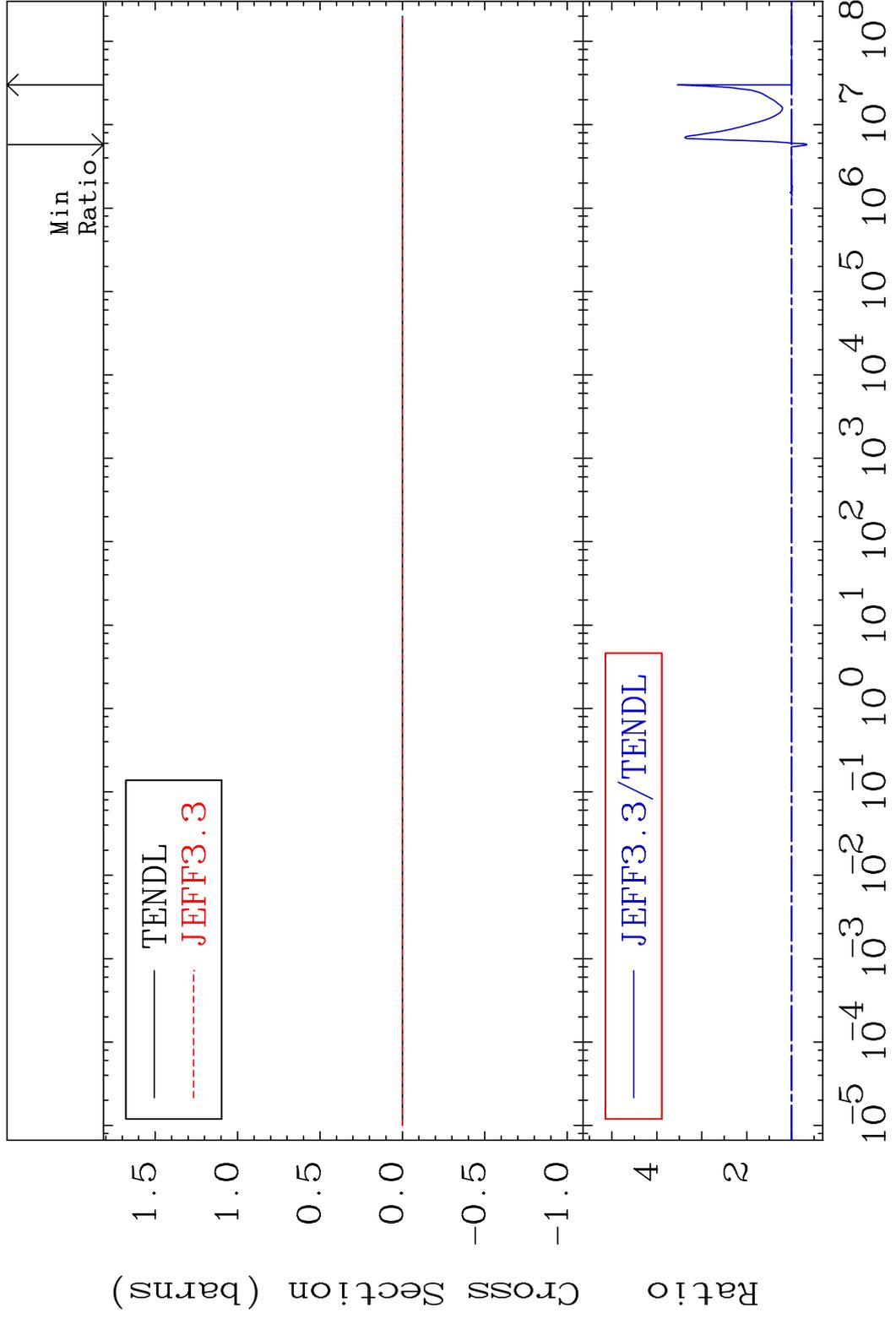
MAT 1525 Kerma non-elastic (all but mt2) 15-P -31
 Cross Section -90.23 To 1262. %

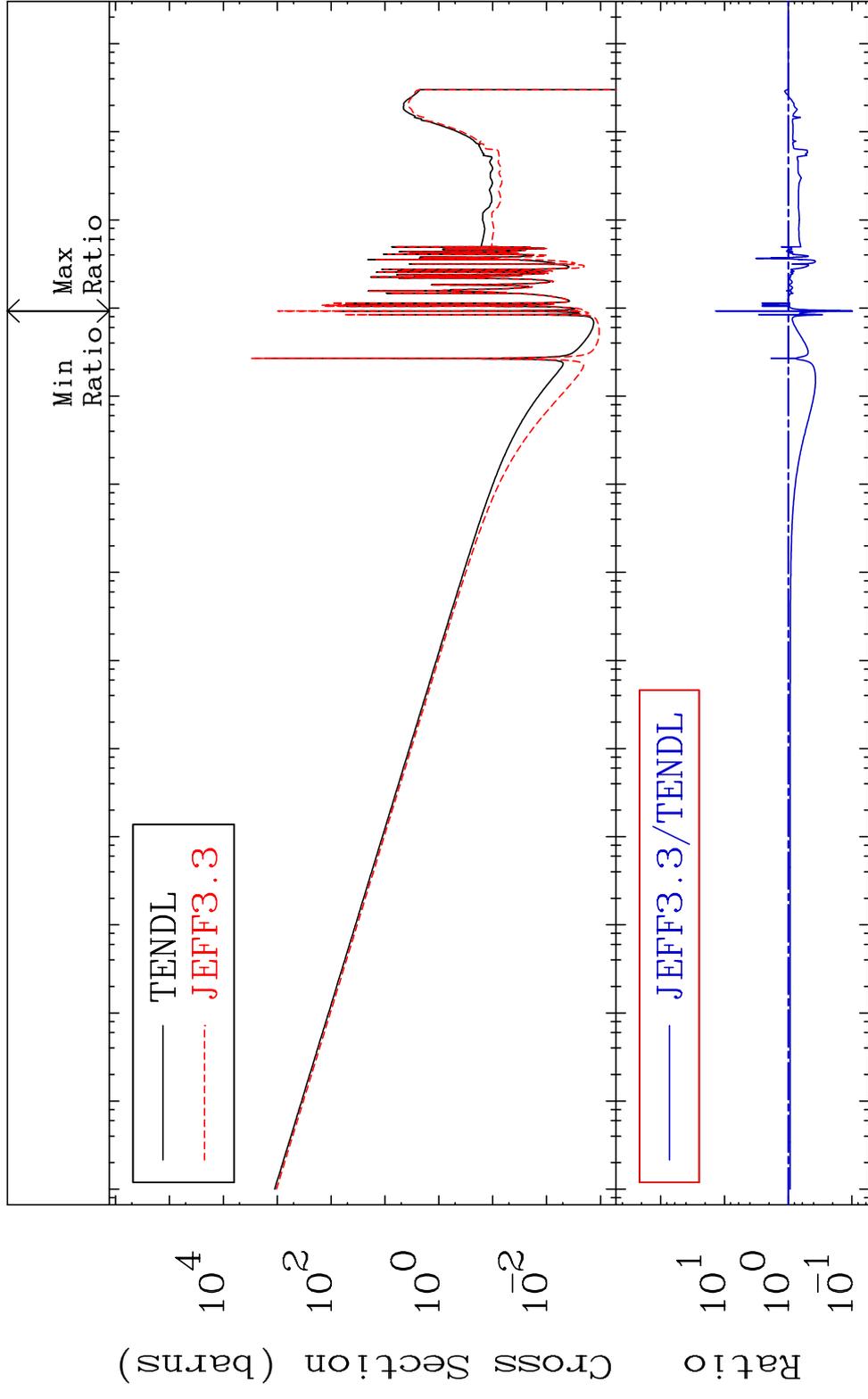


MAT 1525 Kerma inelastic (mt51-91) 15-P -31
 Cross Section -34.24 To 253.6 %

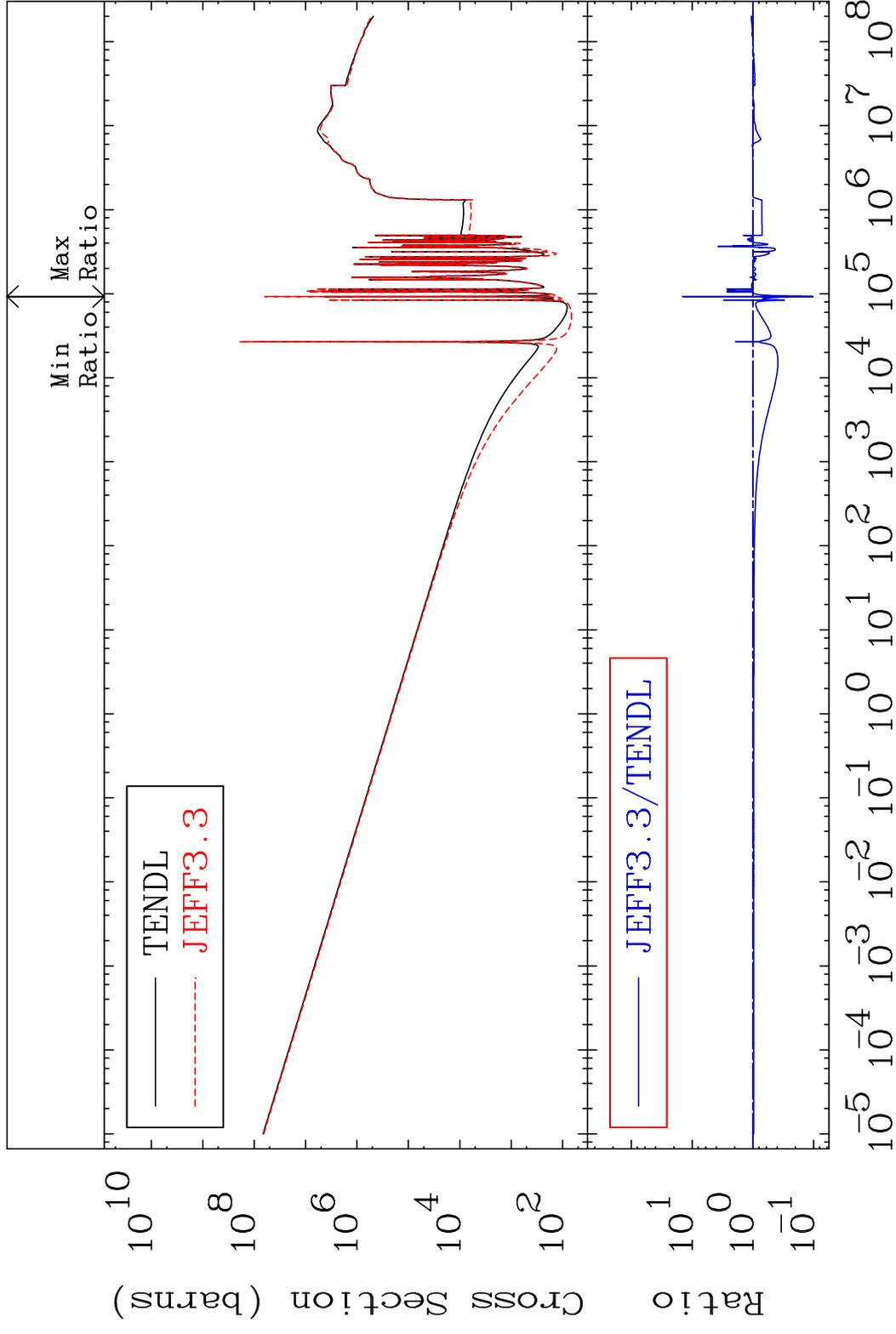


MAT 1525 Kerma fission (mt18 or mt19-20-21-38) 15-P -31
 Cross Section -34.24 To 253.6 %

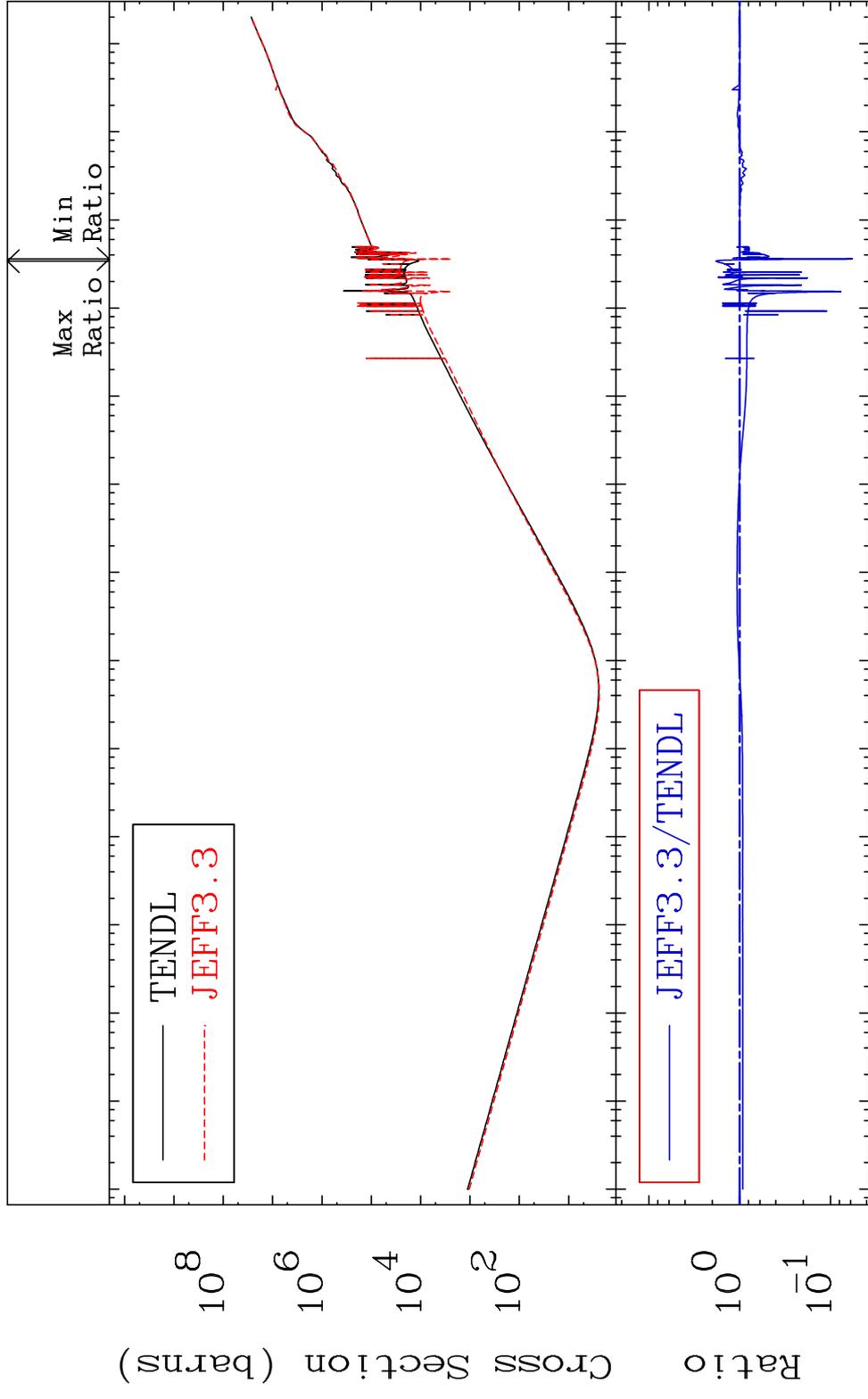




MAT 1525 Total photon (eV-barns) 15-P -31
 Cross Section -89.78 To 1324. %



MAT 1525 Total kinematic kerma (high limit) 15-P -31
 Cross Section -94.27 To 82.95 %

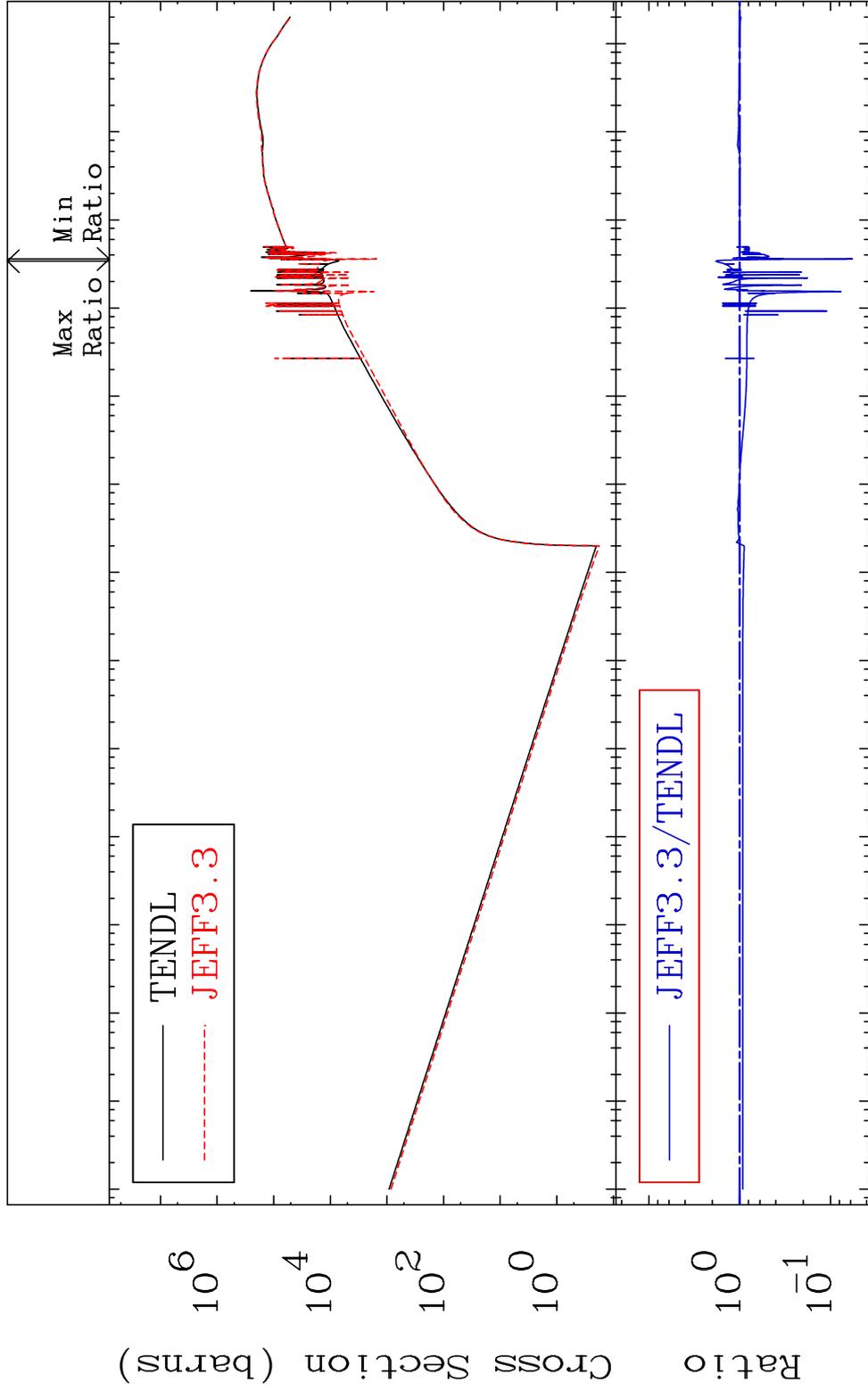


MAT 1525

Dpa total (eV-barns)

15-P -31

Cross Section -94.27 To 82.95 %



60

Incident Energy (eV)

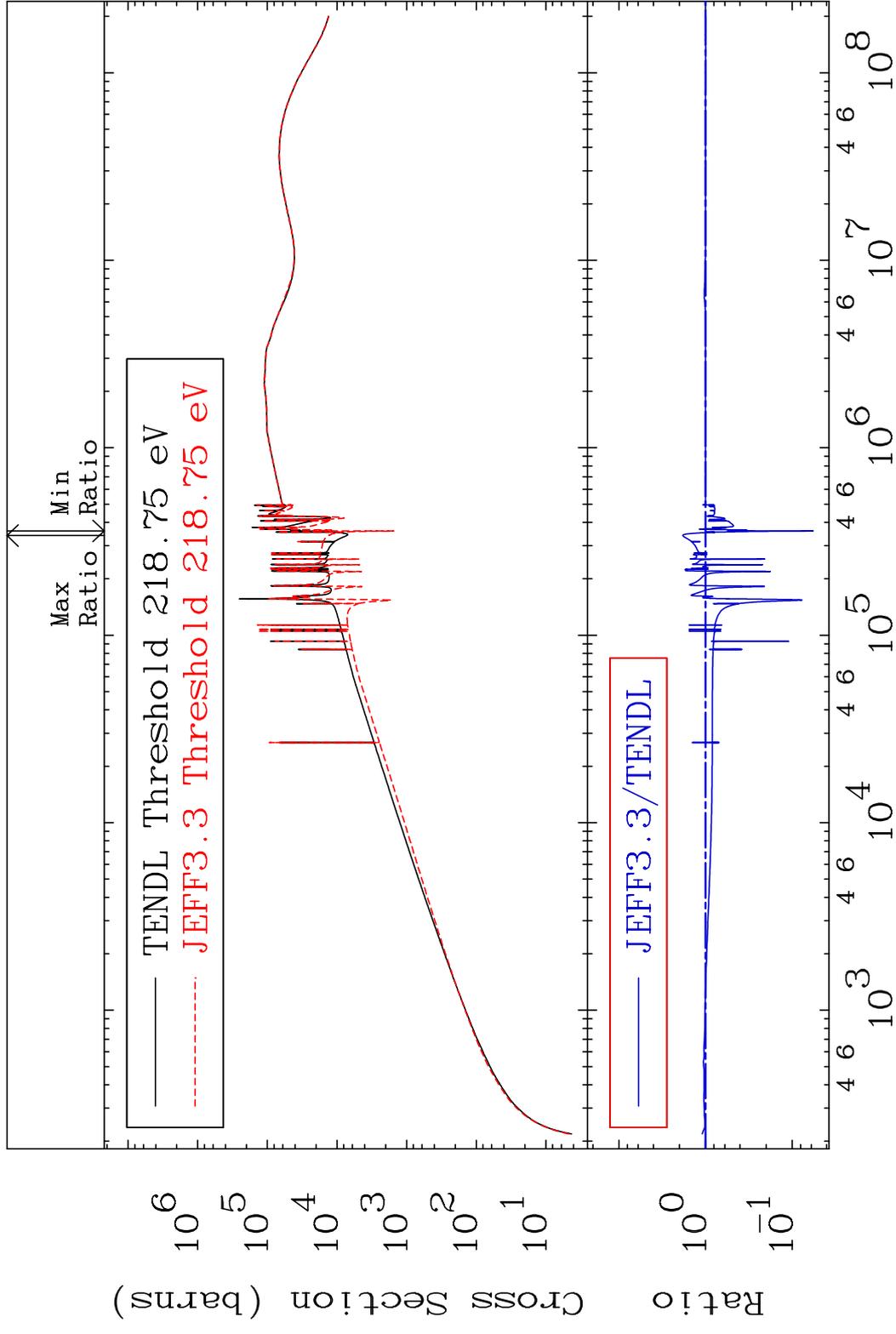
15-P -31

MAT 1525

Dpa elastic (mt2)

15-P -31

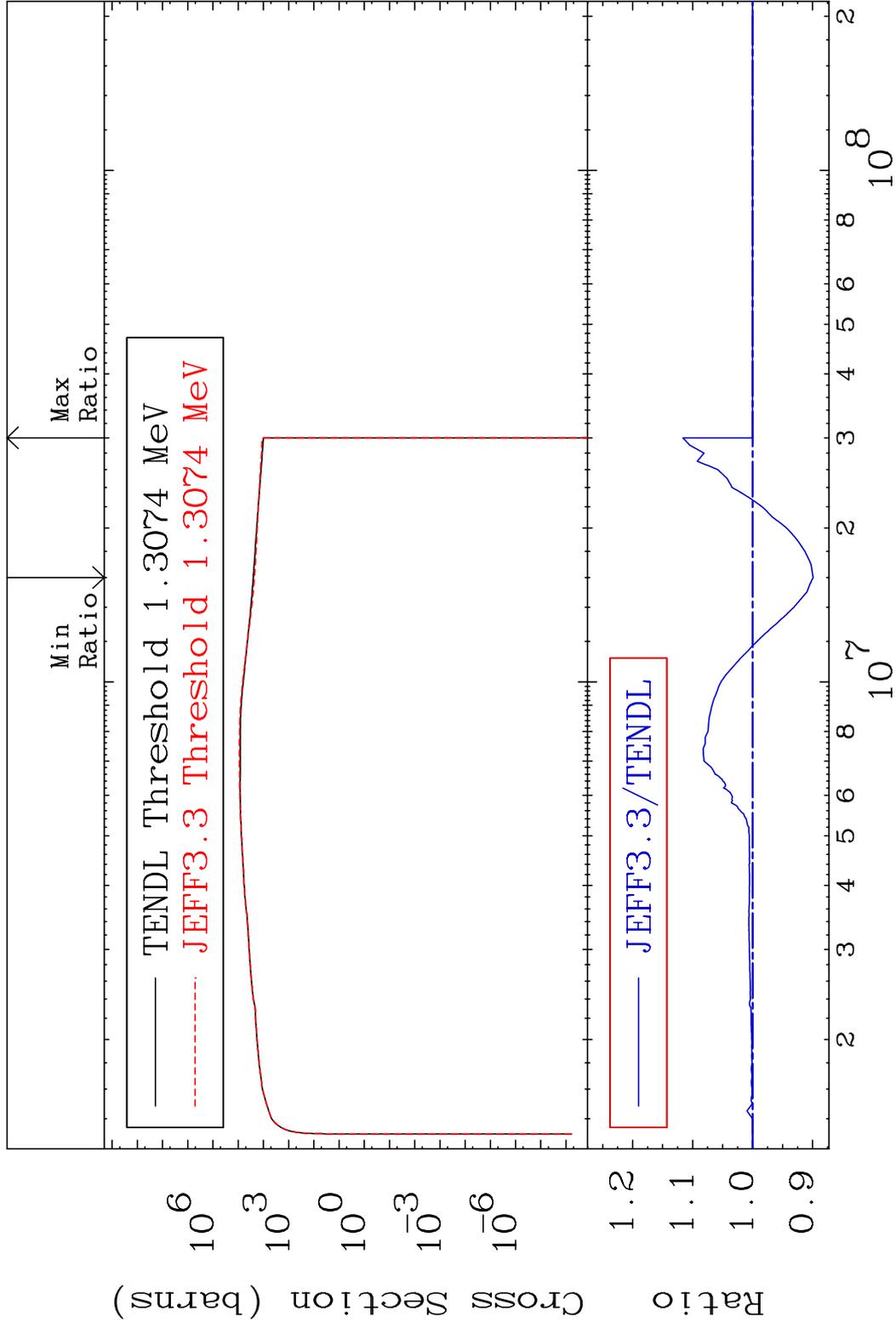
Cross Section -94.27 To 82.95 %



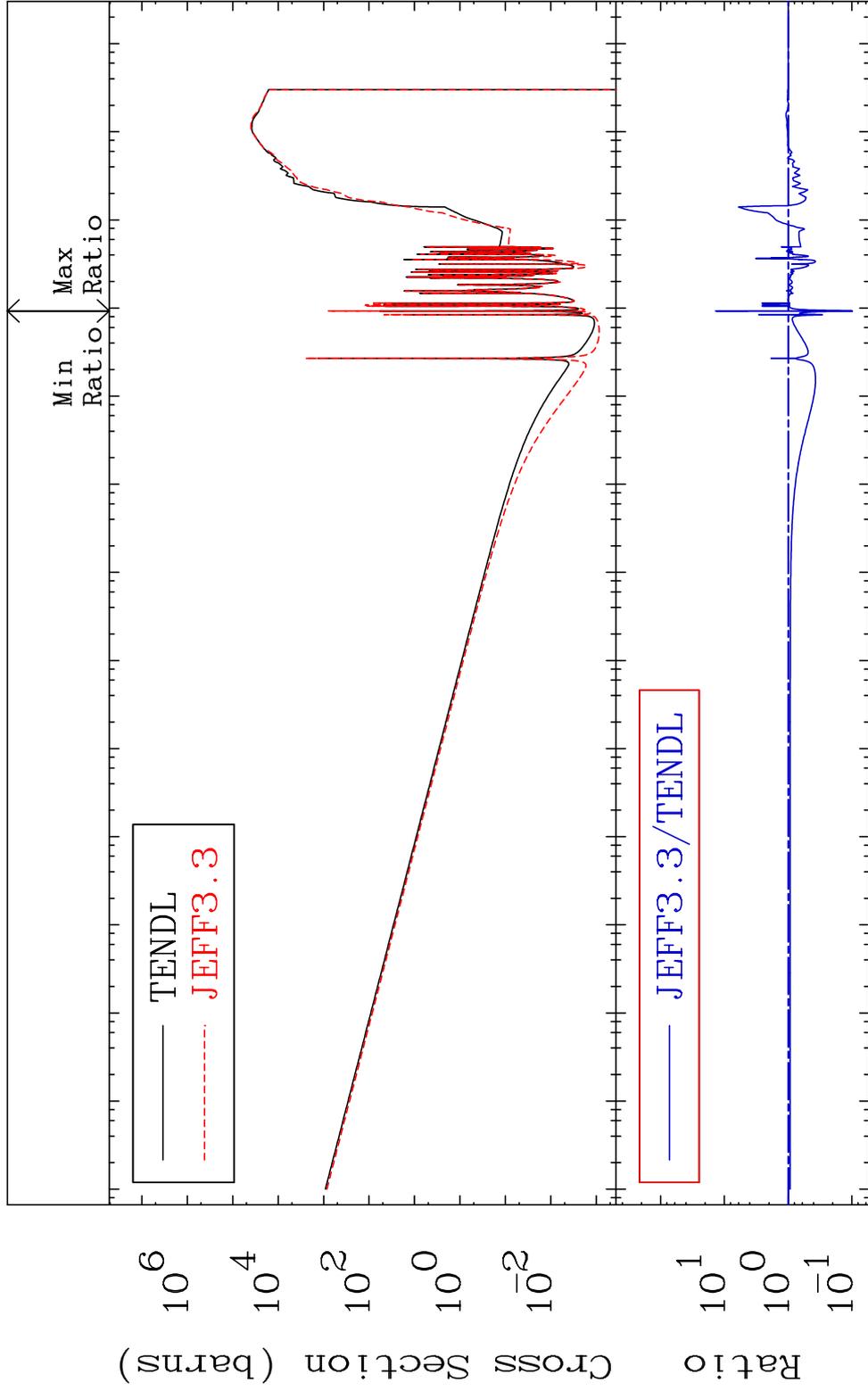
61

Incident Energy (eV)

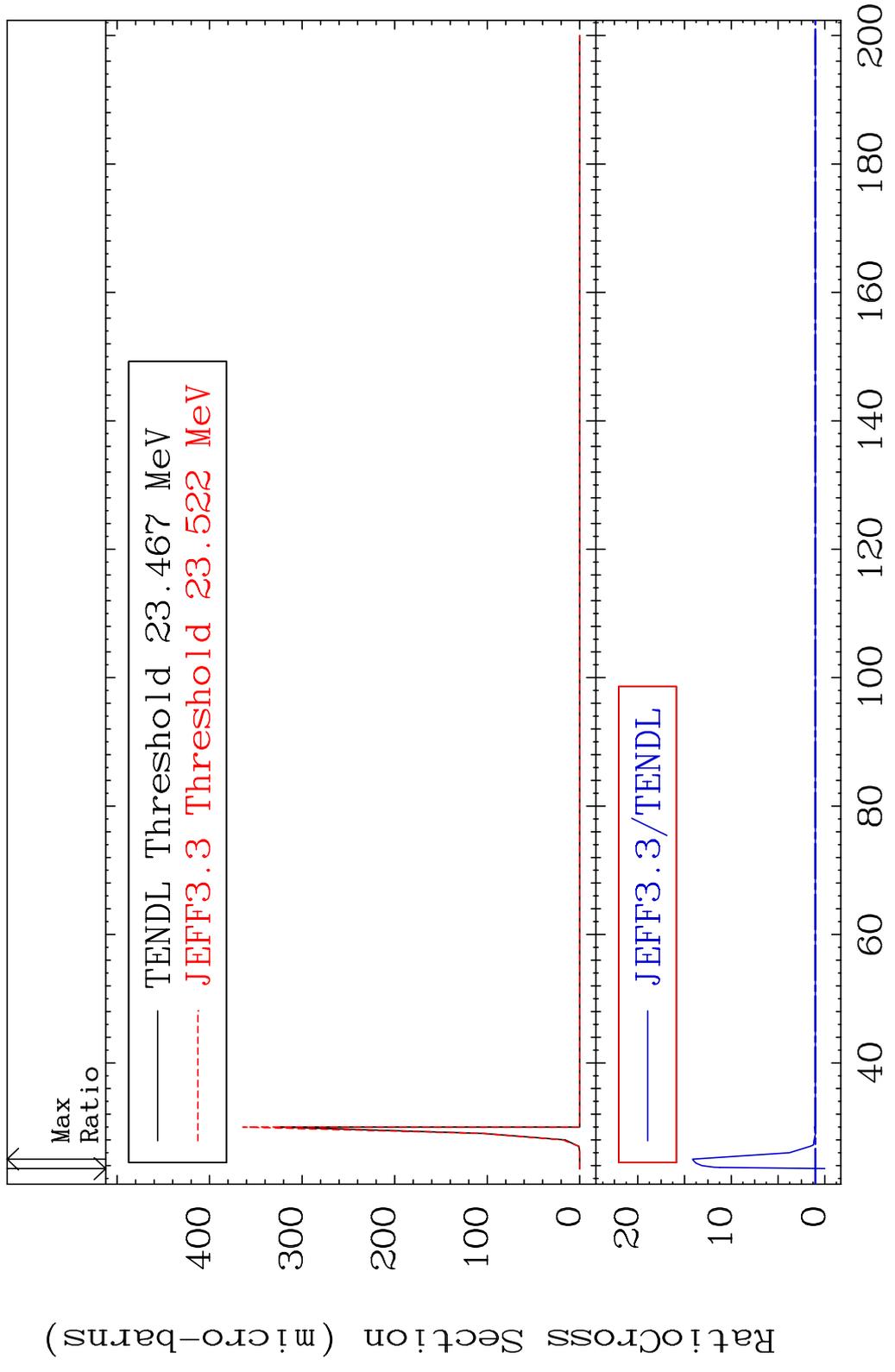
15-P -31



MAT 1525 Dpa disappearance (mt102 -120) 15-P -31
 Cross Section -90.24 To 1260. %



MAT 1525 (n,2n) α :13-Al-26g 15-P -31
 Radionuclide Production Cross Section 130.01 d10 1314. %



MAT 1525 (n,2n) α :13-Al-26m1 15-P -31
 Radionuclide Production Cross Section to 9999. %

