

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

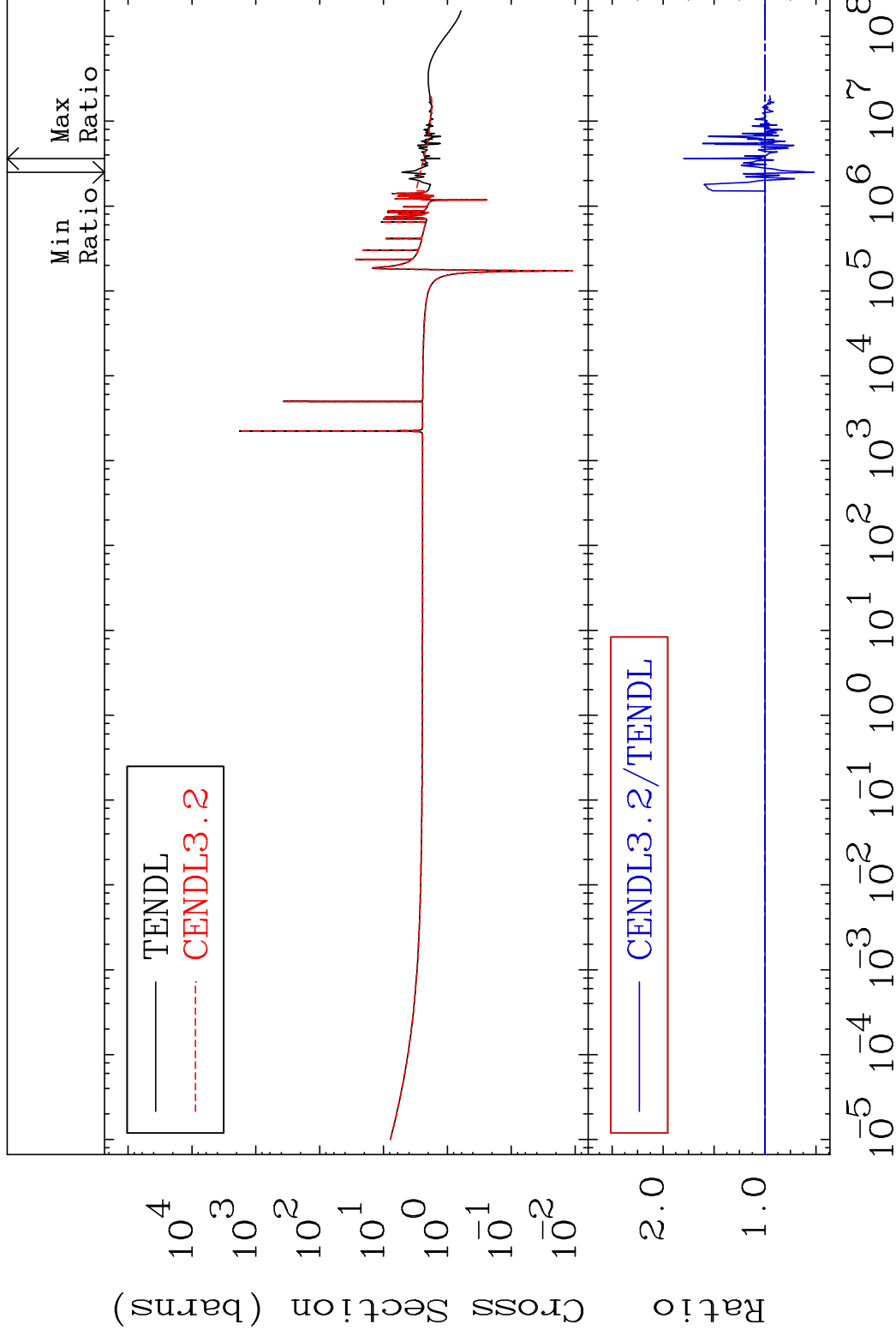
MAT 1431

Total

14-Si-30

Cross Section

-48.20 To 79.80 %



1

Incident Energy (eV)

14-Si-30

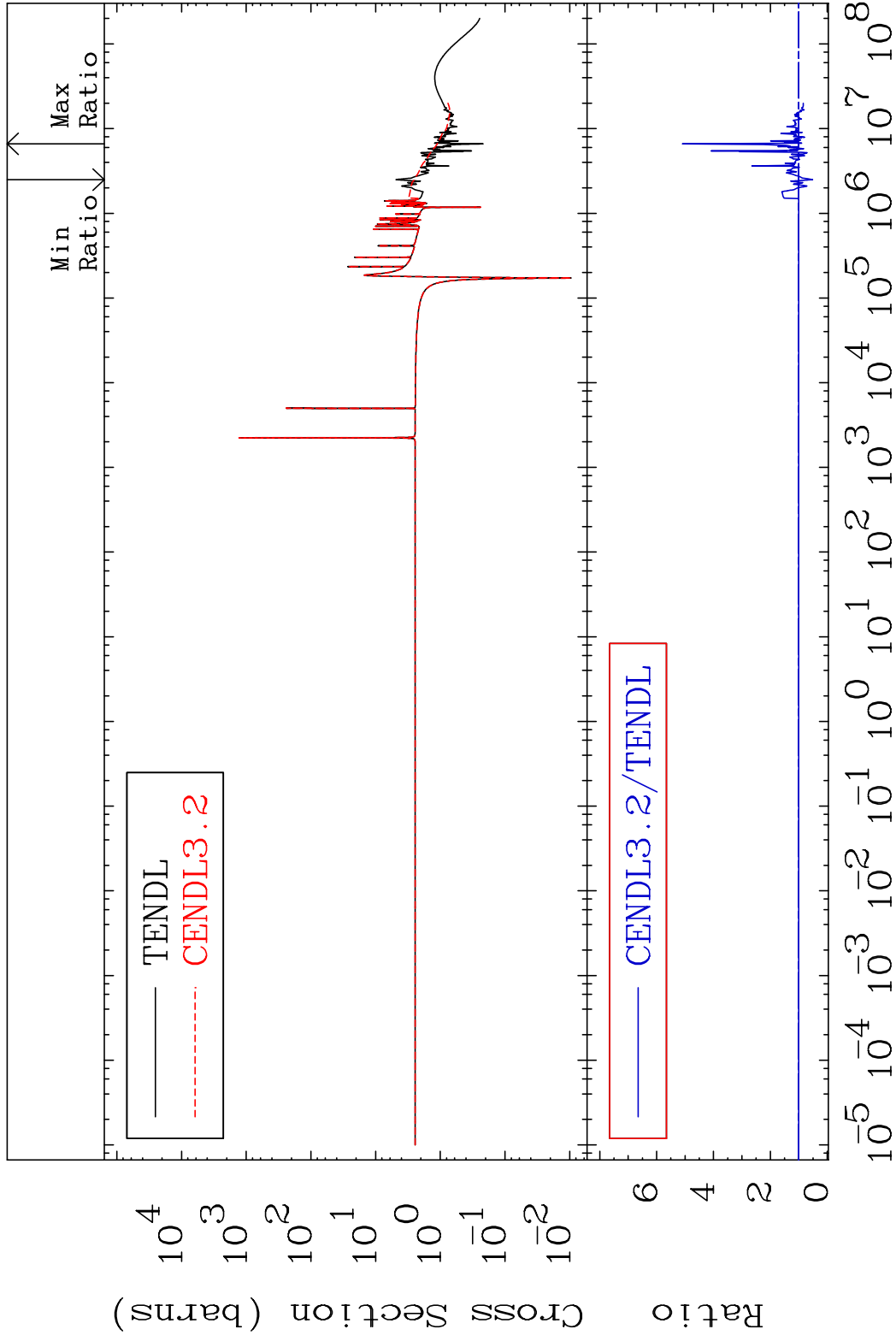
MAT 1431

Elastic

14-Si-30

Cross Section

-48.61 To 409.5 %



2

Incident Energy (eV)

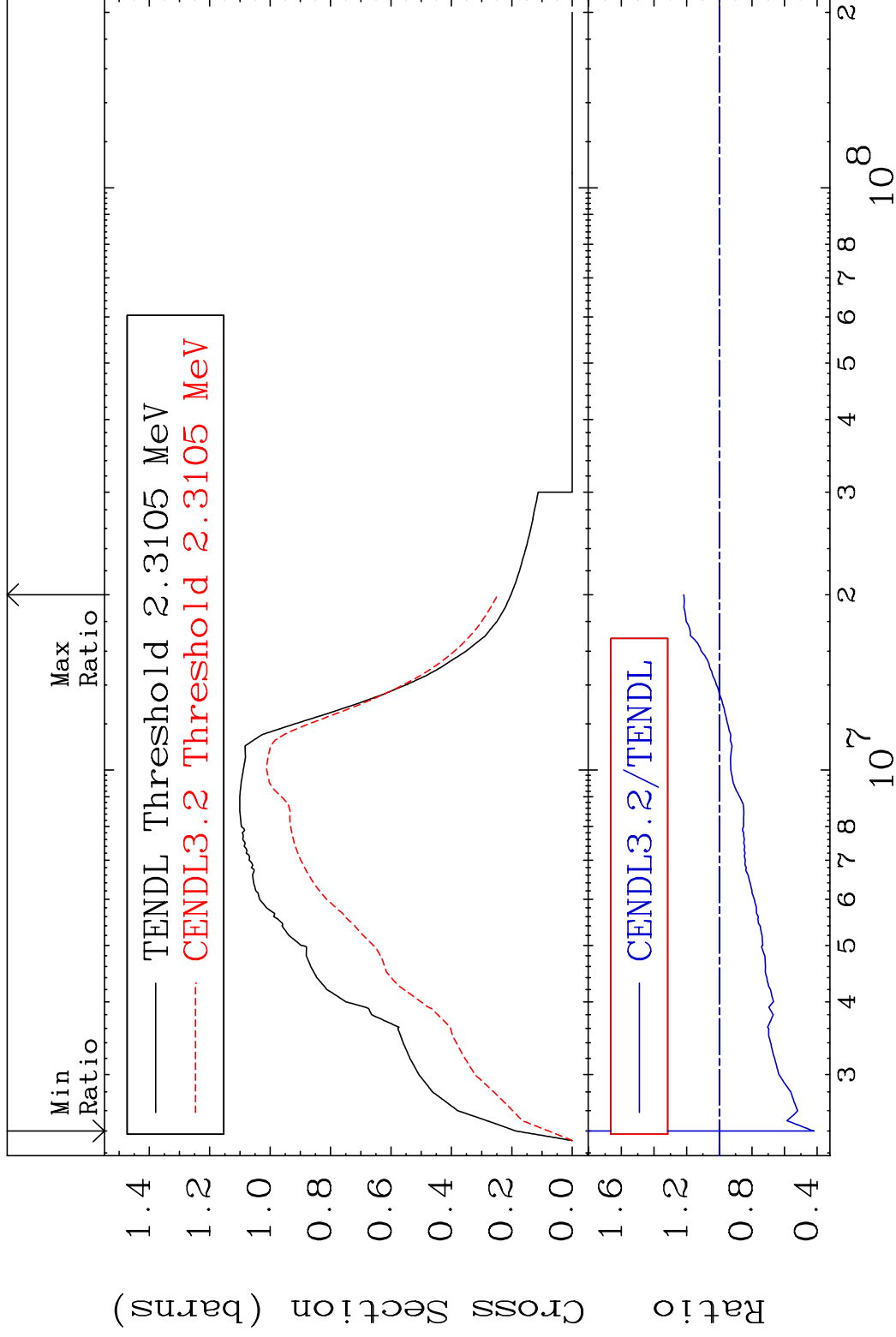
14-Si-30

MAT 1431

Inelastic

¹⁴Si-30

Cross Section -58.12 To 21.83 %



3

Incident Energy (eV)

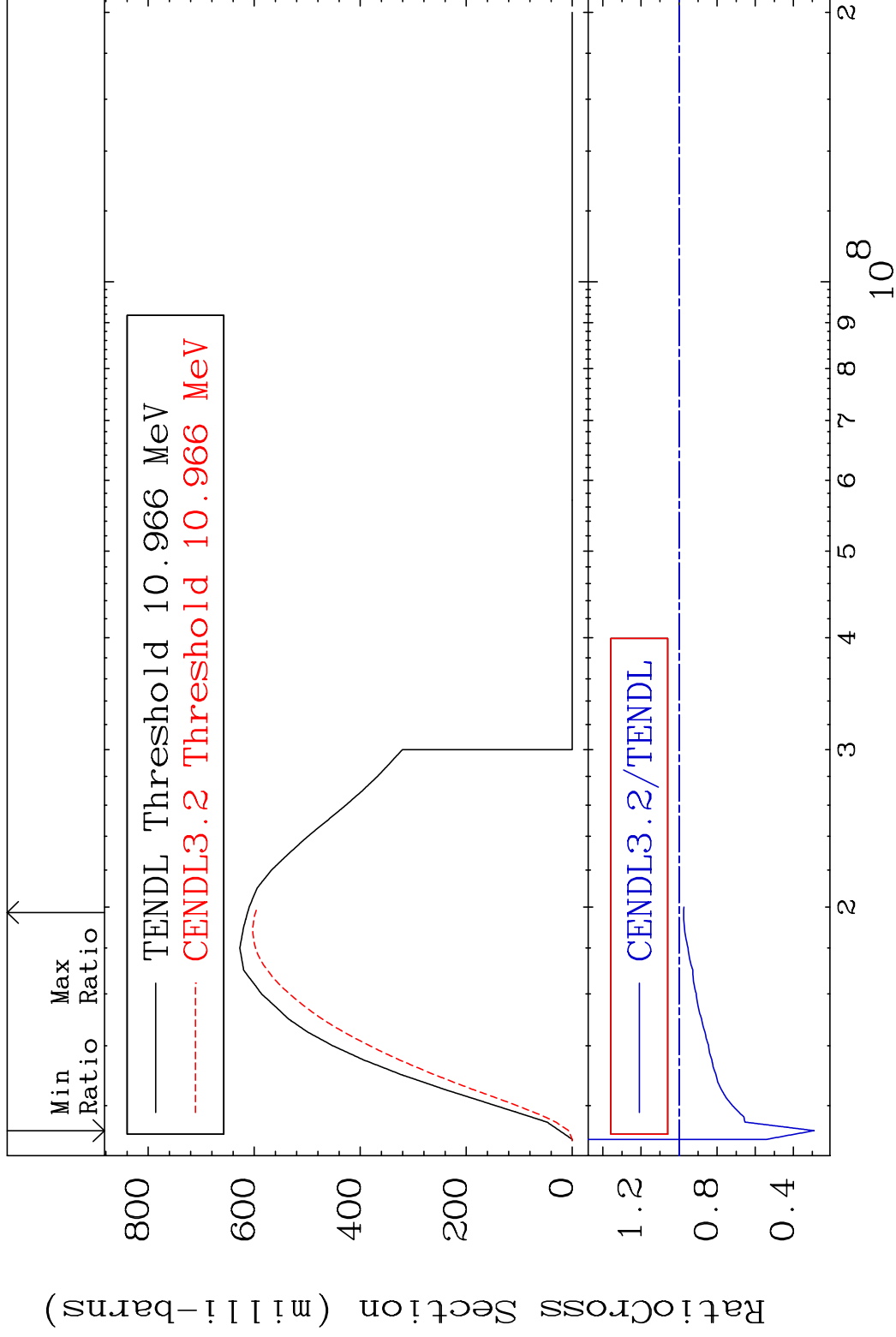
¹⁴Si-30

MAT 1431

(n,2n)

14-Si-30

Cross Section -70.90 To -2.415%



4

Incident Energy (eV)

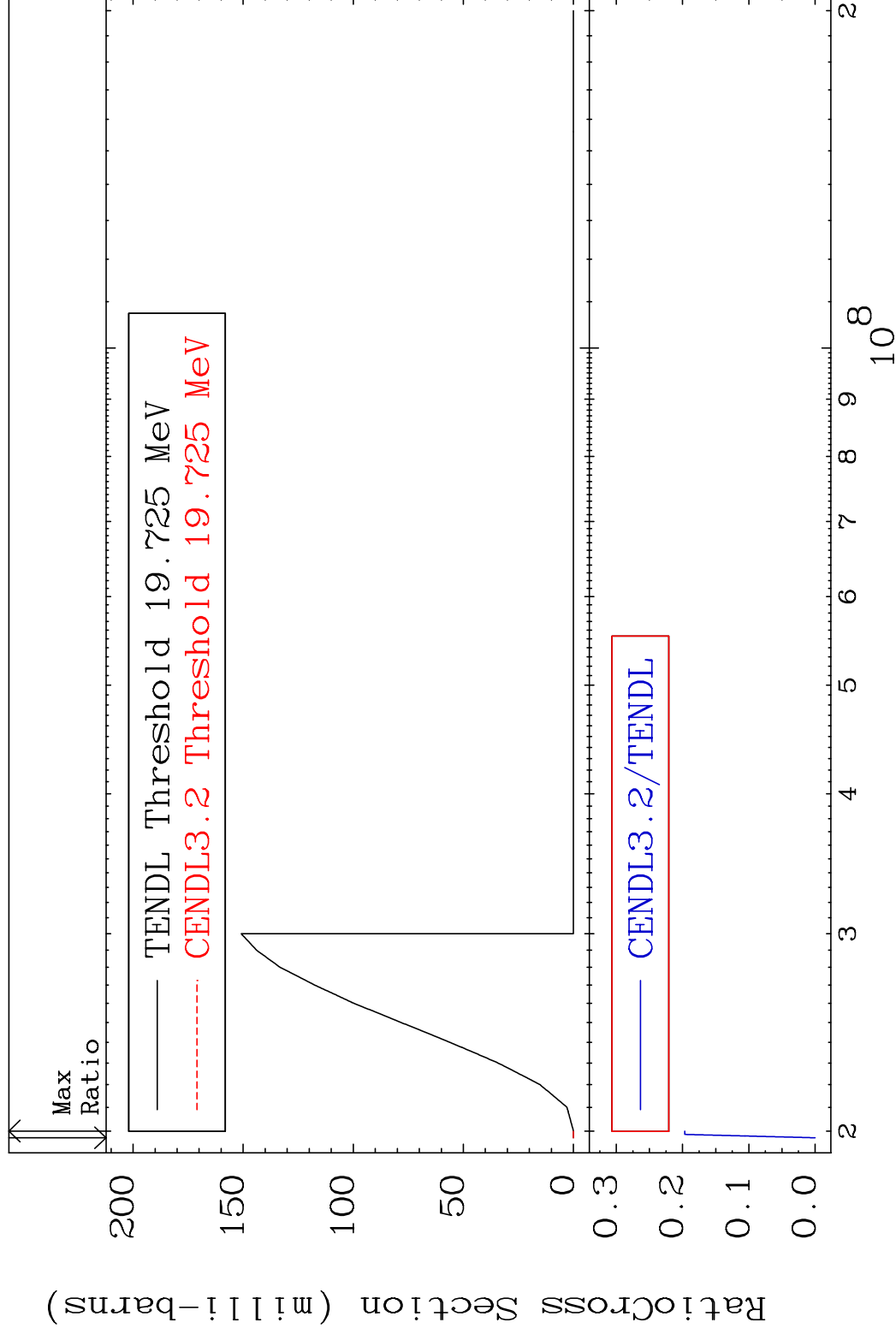
14-Si-30

MAT 1431

(n,3n)

¹⁴Si-30

Cross Section -100.0 To -80.32%

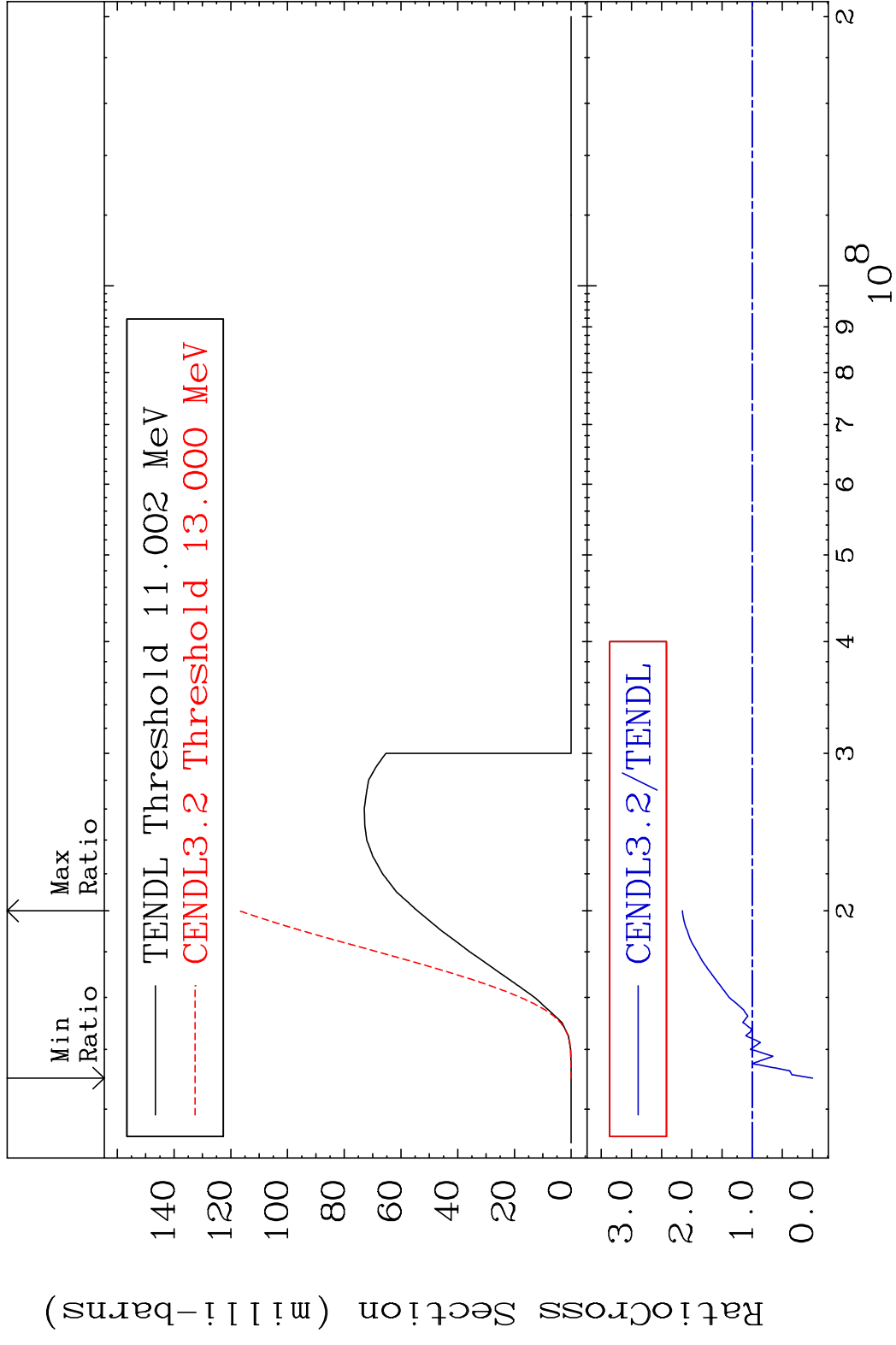


5

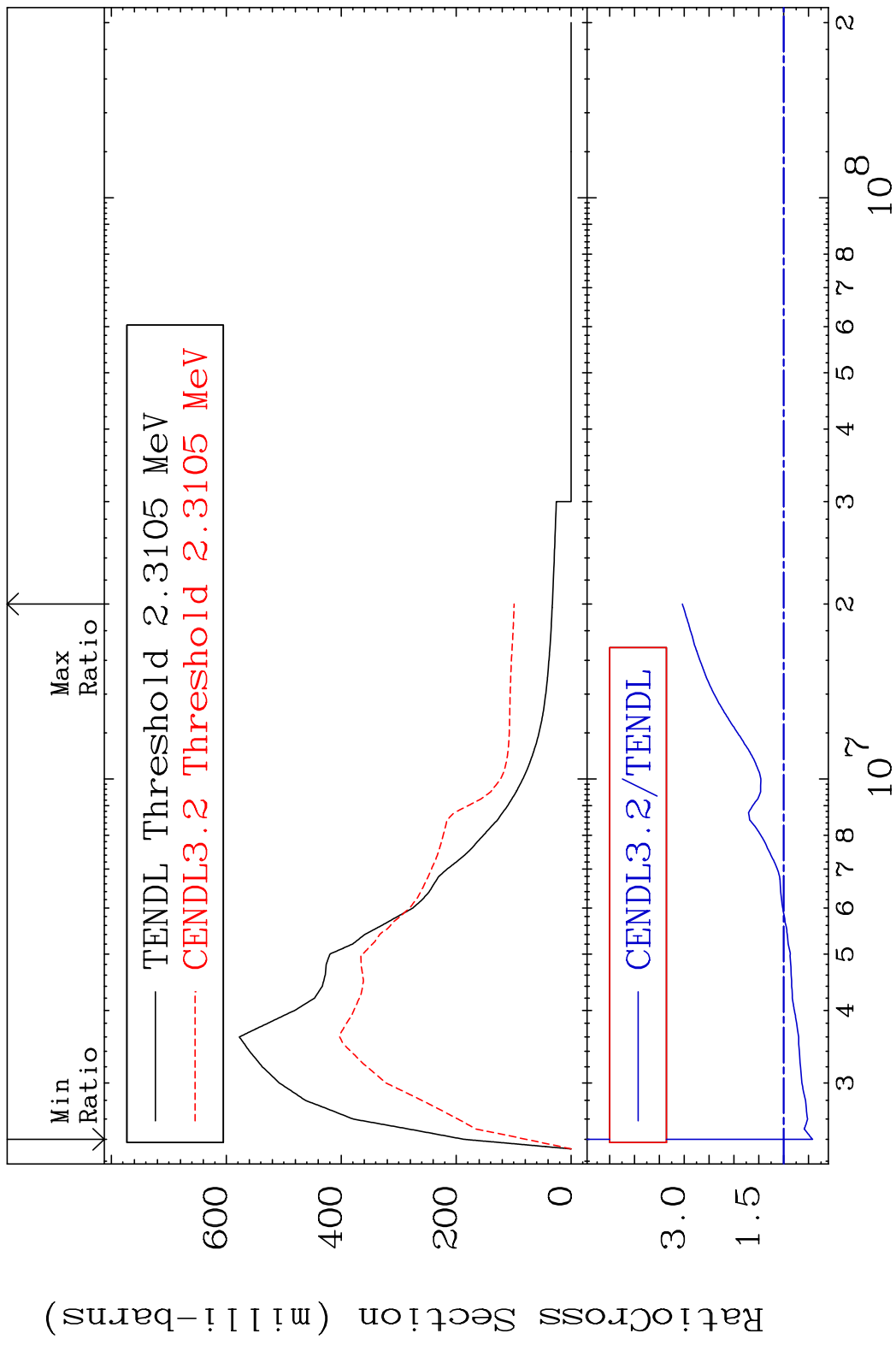
Incident Energy (eV)

¹⁴Si-30

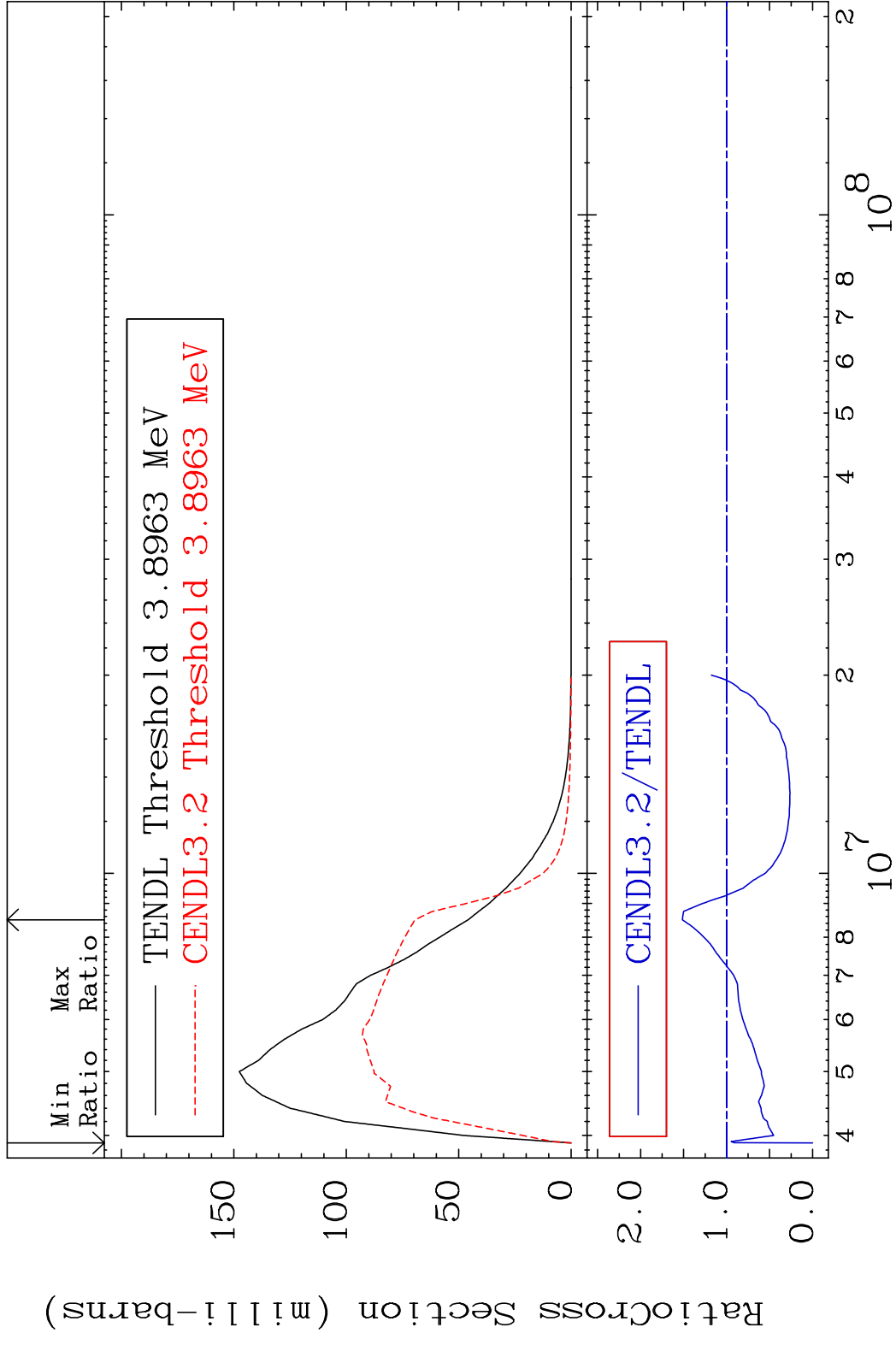
MAT 1431 (n, n') α 14-Si-30
 Cross Section -100.0 To 115.7 %



MAT 1431 MT= 51 (n, n') Level 14-Si-30
 Cross Section -58.12 To 203.6 %

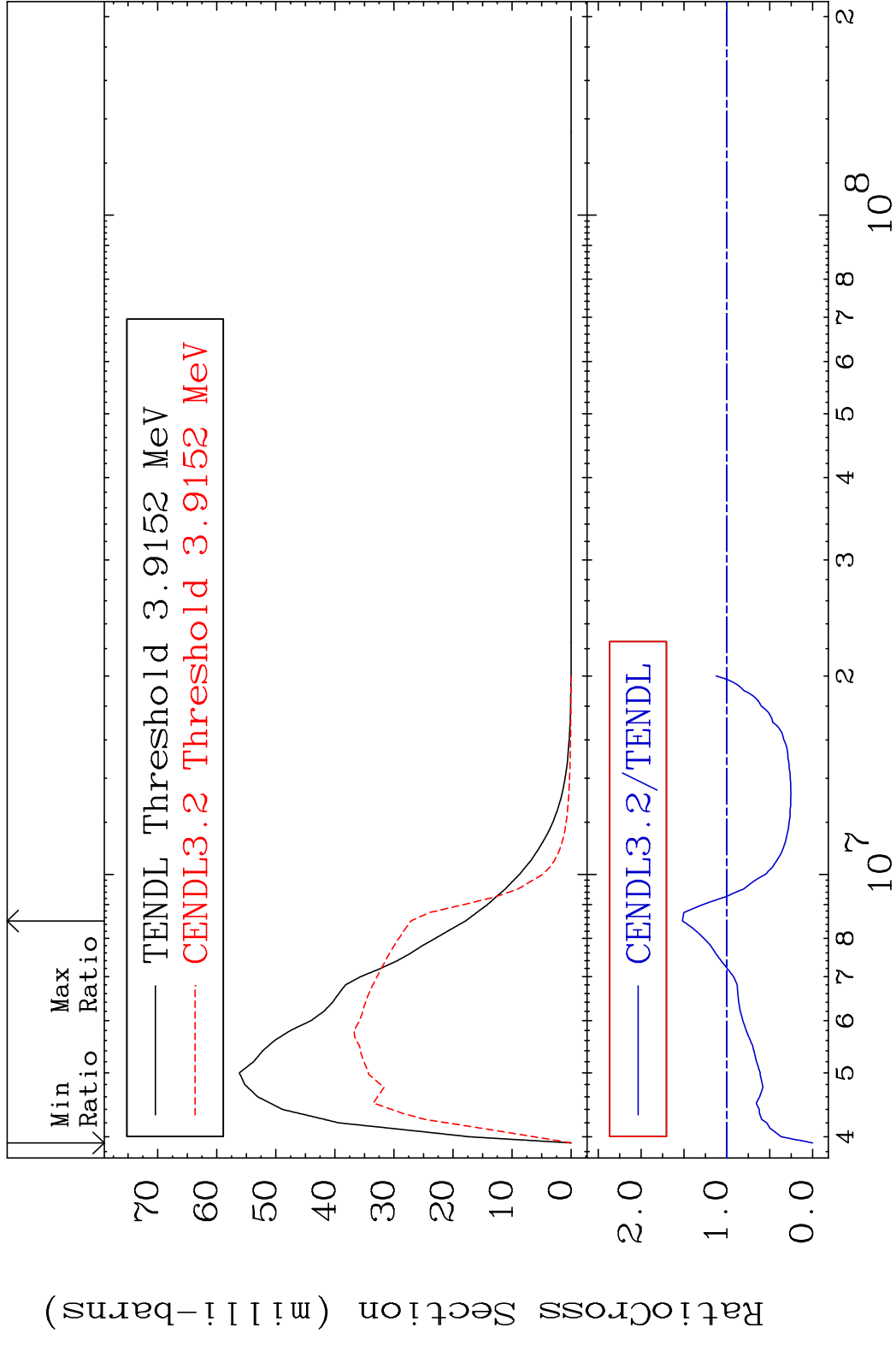


MAT 1431 MT= 53 (n, n') Level 14-Si-30
 Cross Section -100.0 To 51.46 %

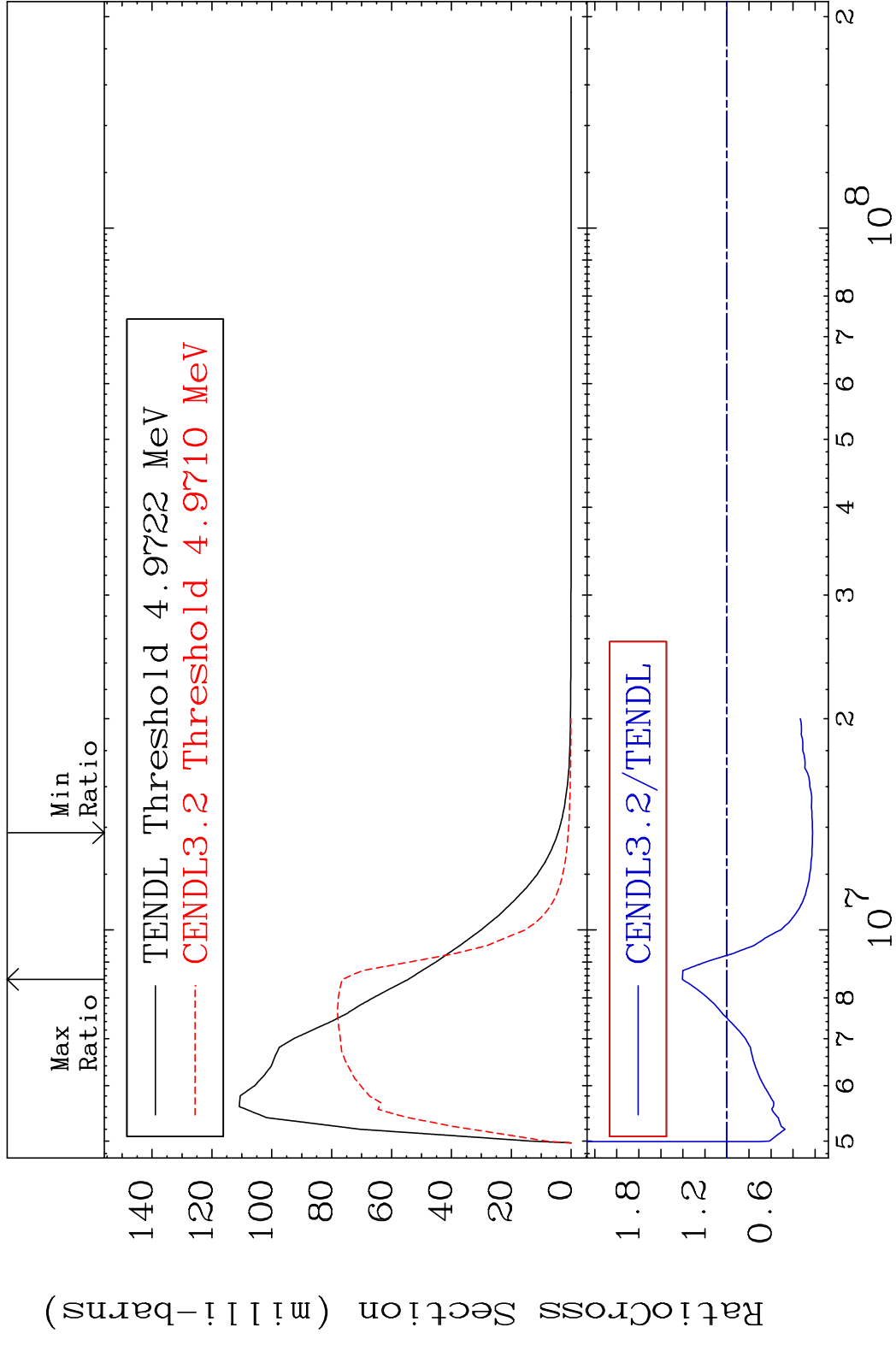


10 Incident Energy (eV) 14-Si-30

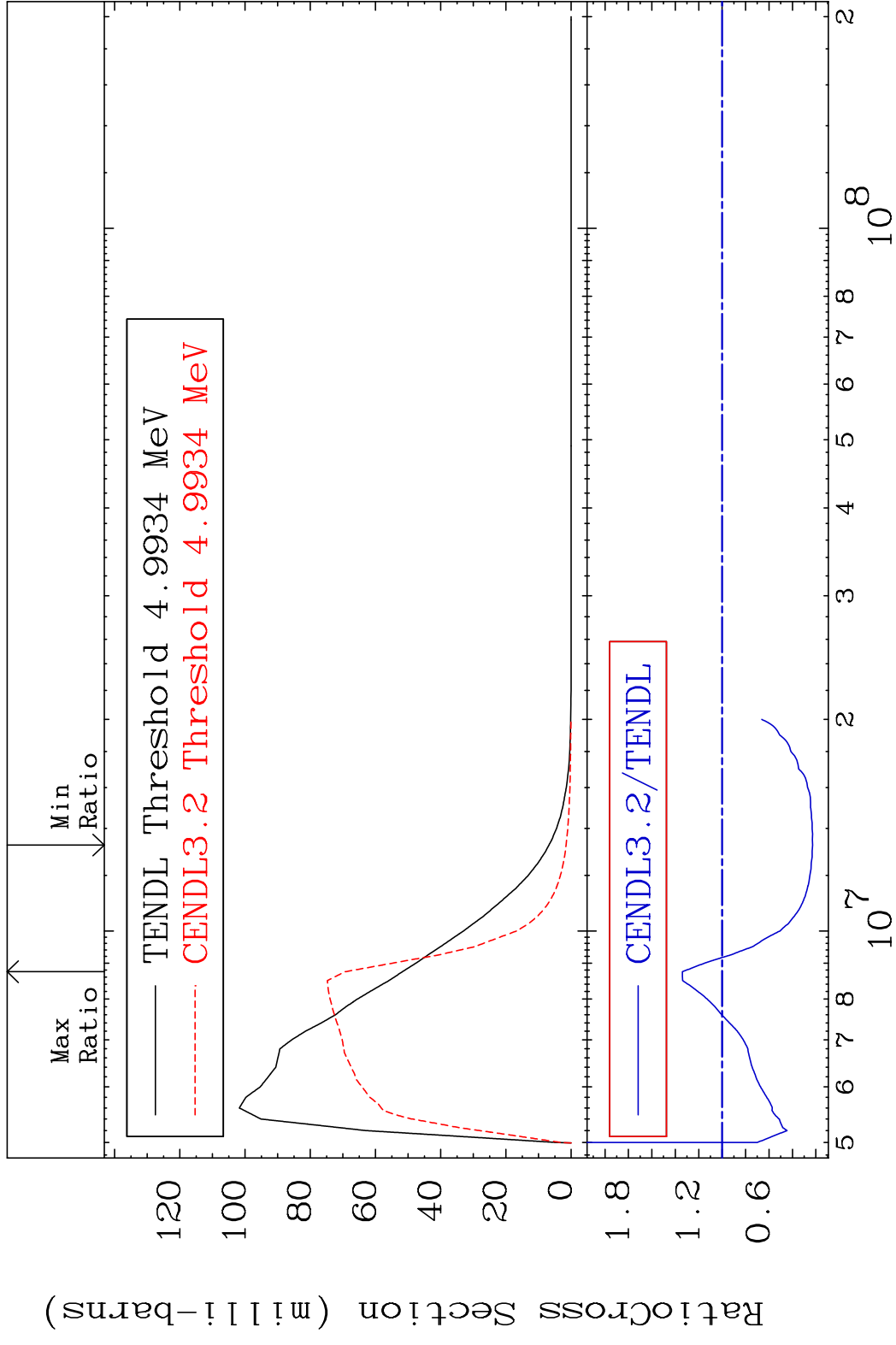
MAT 1431 MT= 54 (n,n') Level 14-Si-30
 Cross Section -100.0 To 51.86 %



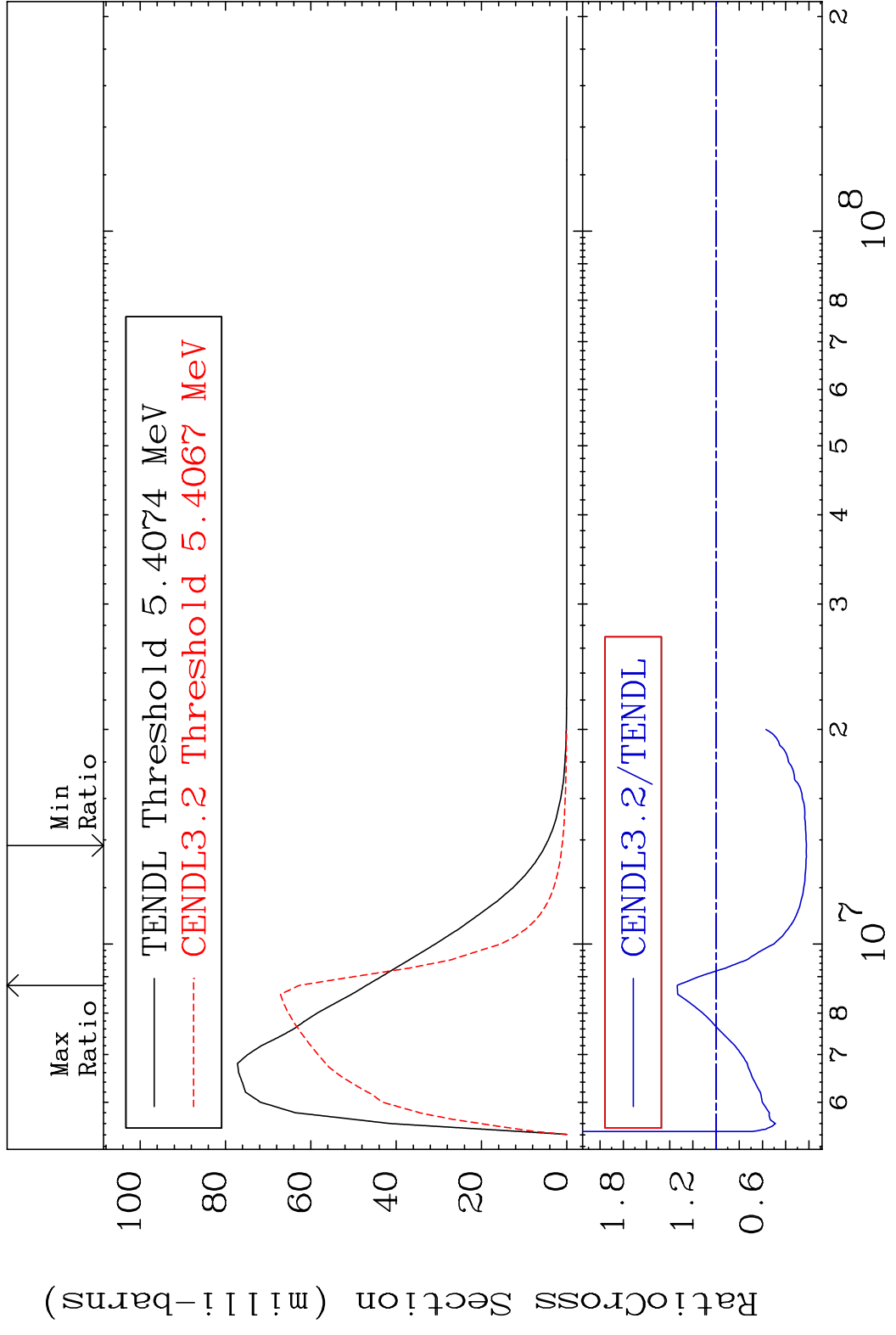
MAT 1431 MT= 55 (n,n') Level 14-Si-30
 Cross Section -77.74 To 40.49 %



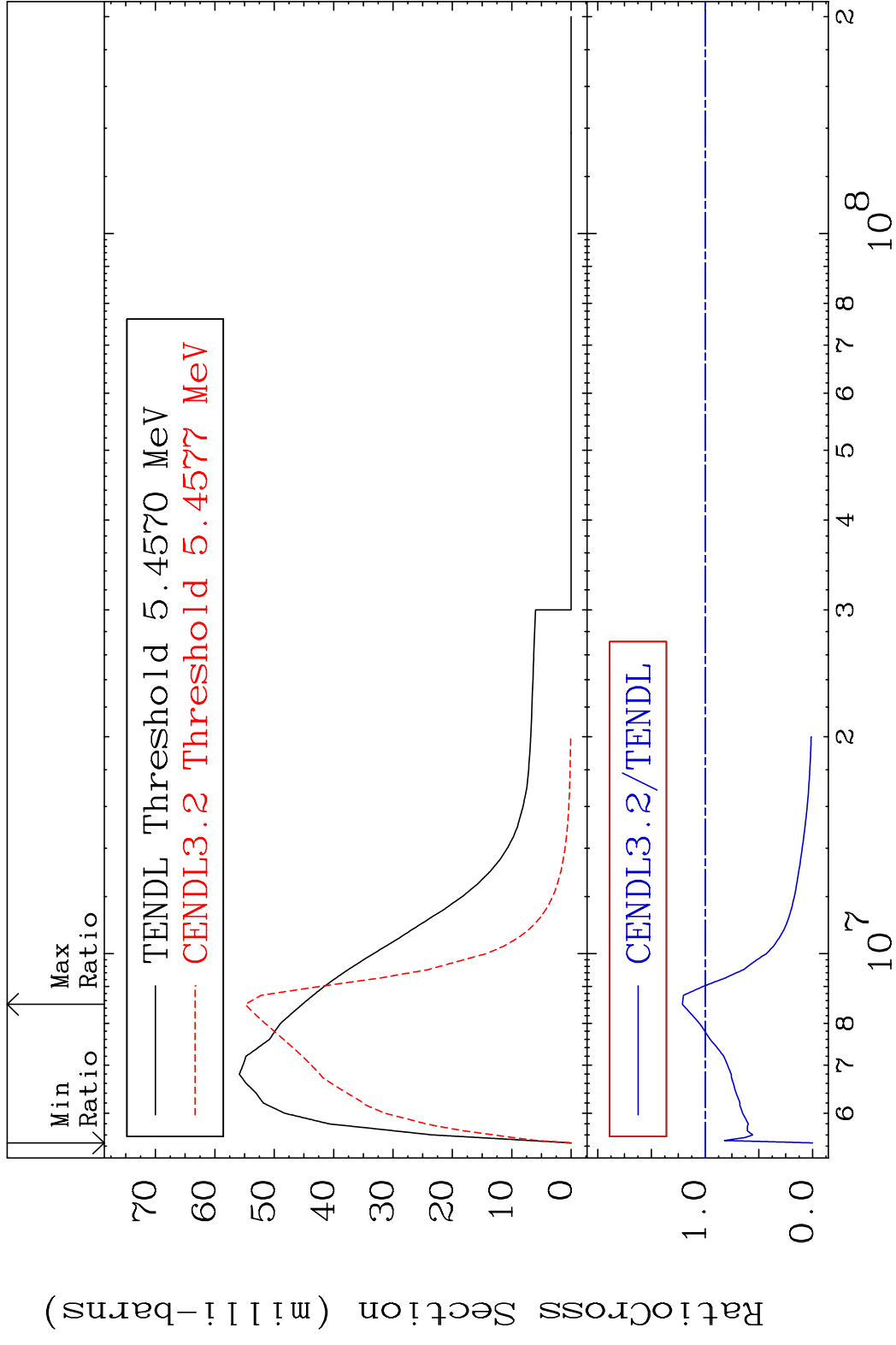
MAT 1431 MT= 56 (n,n') Level 14-Si-30
 Cross Section -77.17 To 33.97 %



MAT 1431 MT= 57 (n,n') Level 14-Si-30
 Cross Section -77.84 To 33.55 %

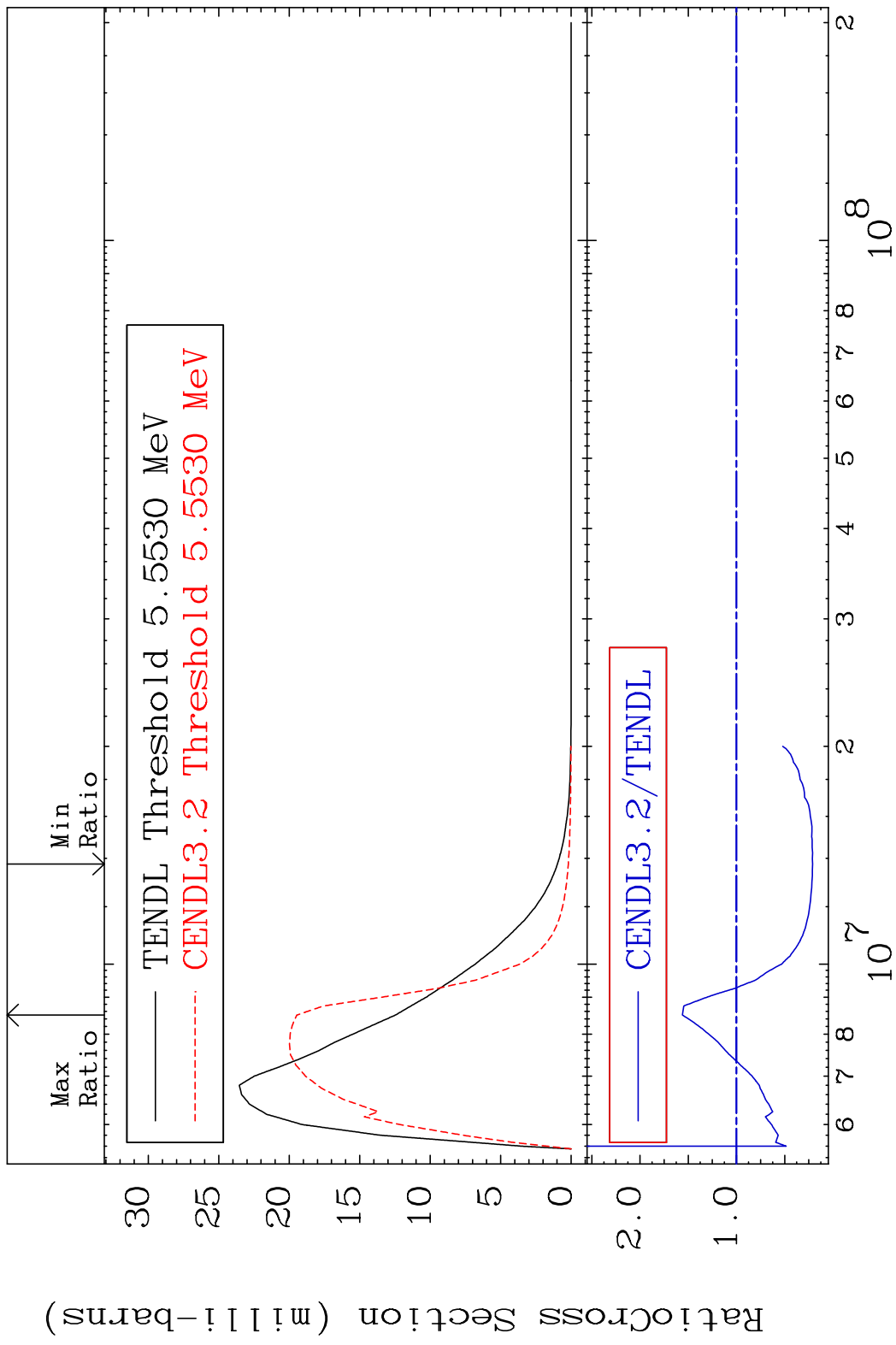


MAT 1431 MT= 58 (n,n') Level 14-Si-30
 Cross Section -100.0 To 21.19 %



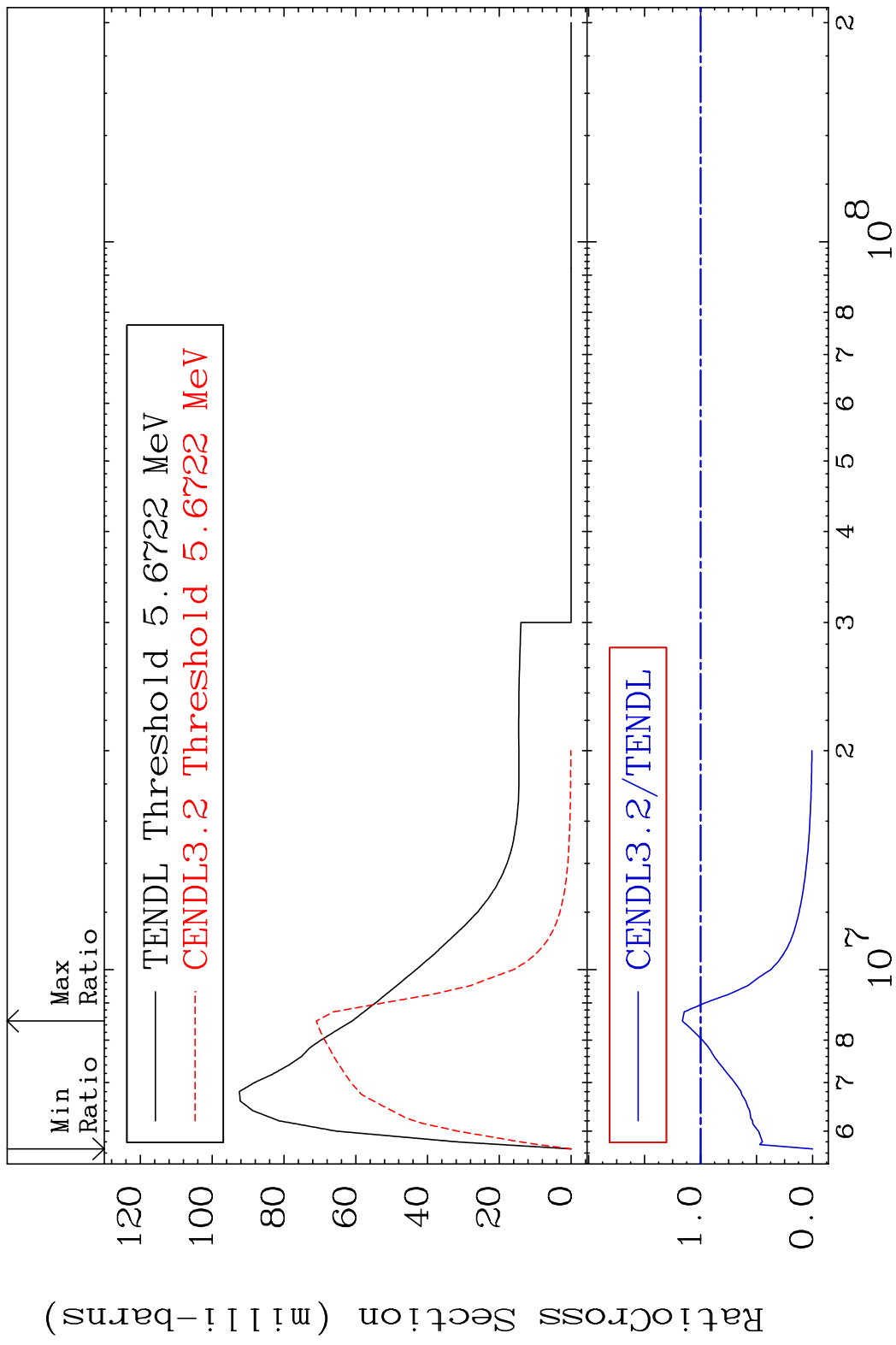
15 14-Si-30

MAT 1431 MT= 59 (n,n') Level 14-Si-30
 Cross Section -78.91 To 56.09 %

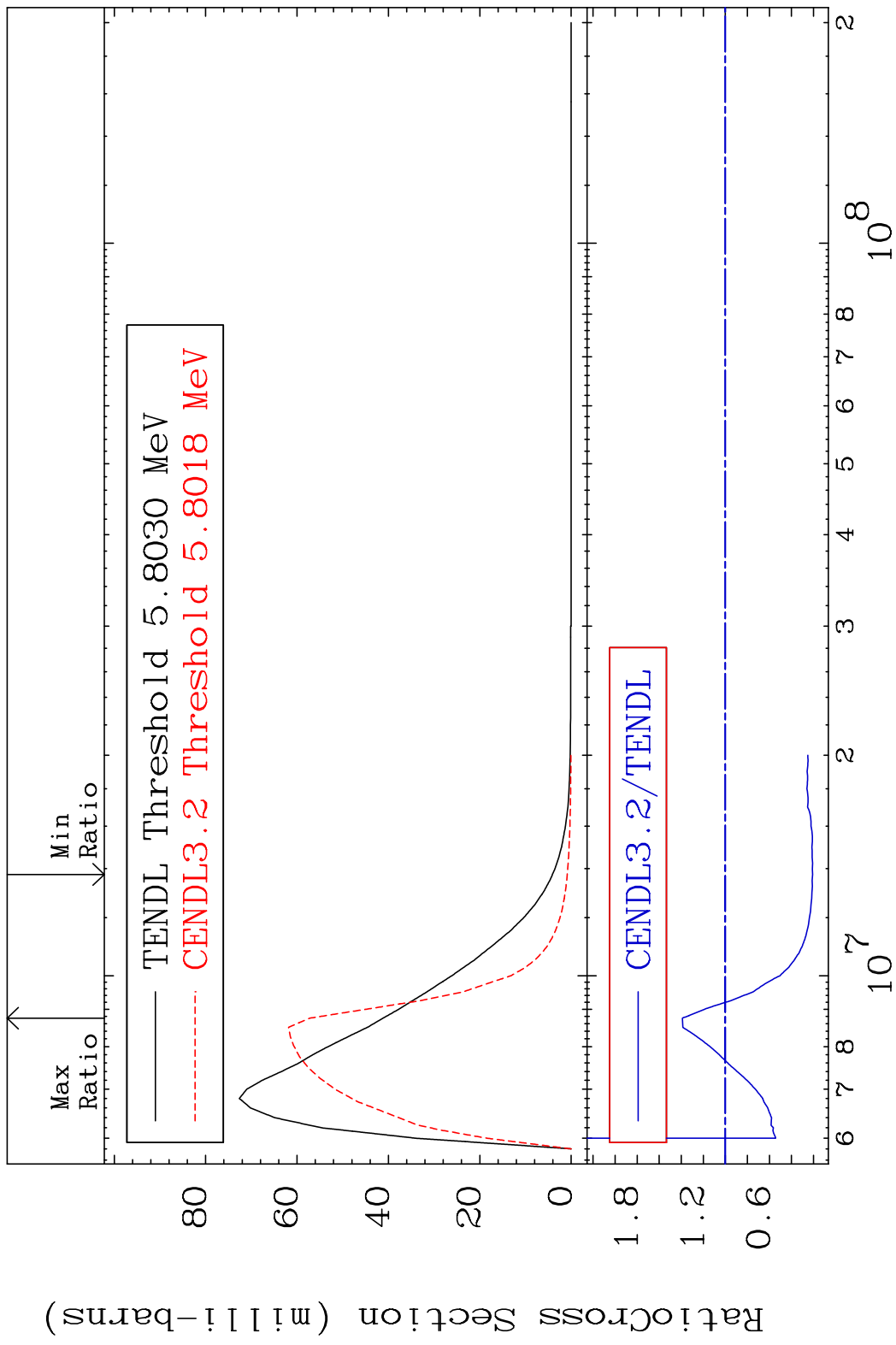


16 Incident Energy (eV) 14-Si-30

MAT 1431 MT= 60 (n,n') Level 14-Si-30
 Cross Section -100.0 To 16.31 %



MAT 1431 MT= 61 (n,n') Level 14-Si-30
 Cross Section -79.11 To 39.01 %

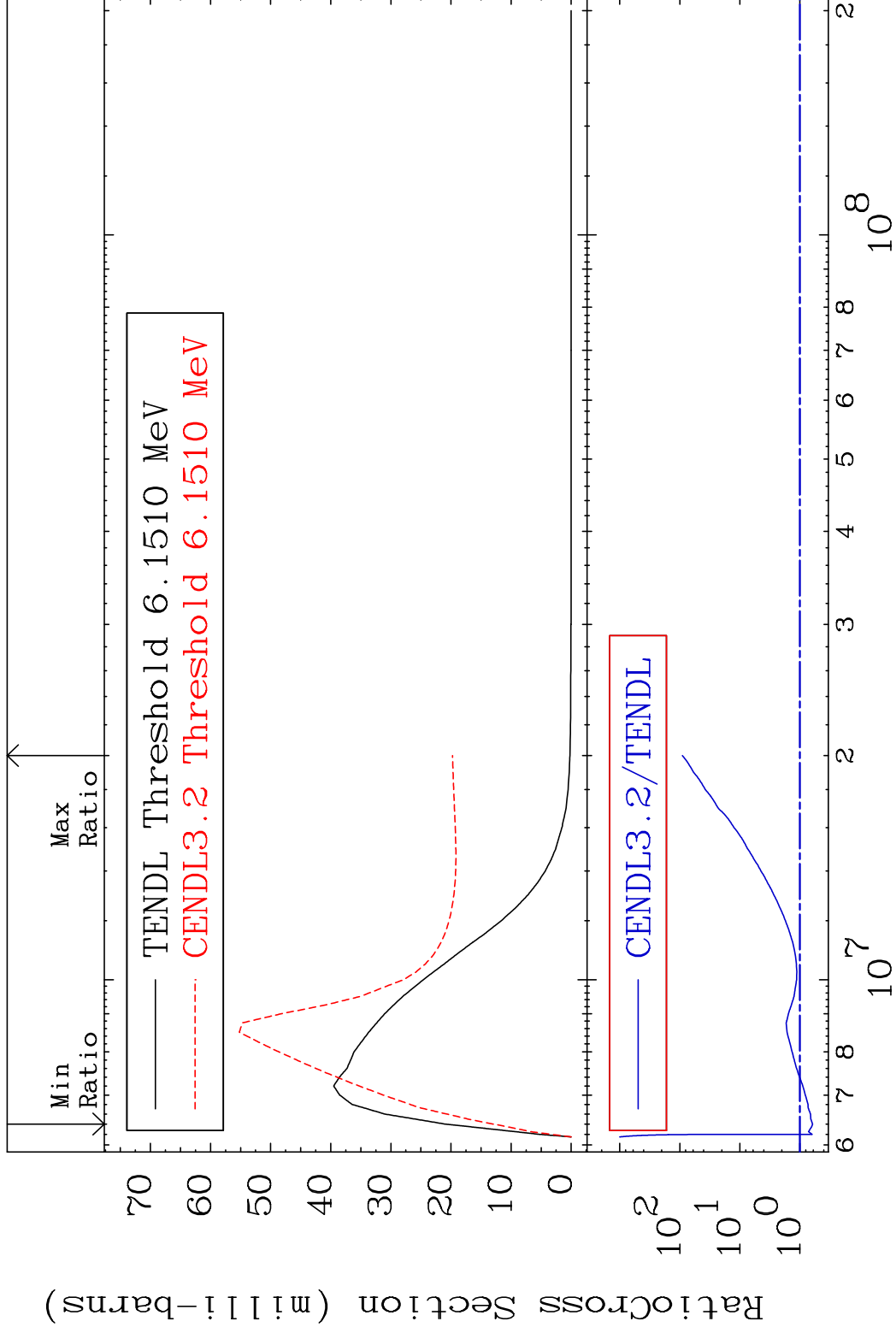


MAT 1431

MT= 62 (n,n') Level

14-Si-30

Cross Section -38.34 To 8961. %

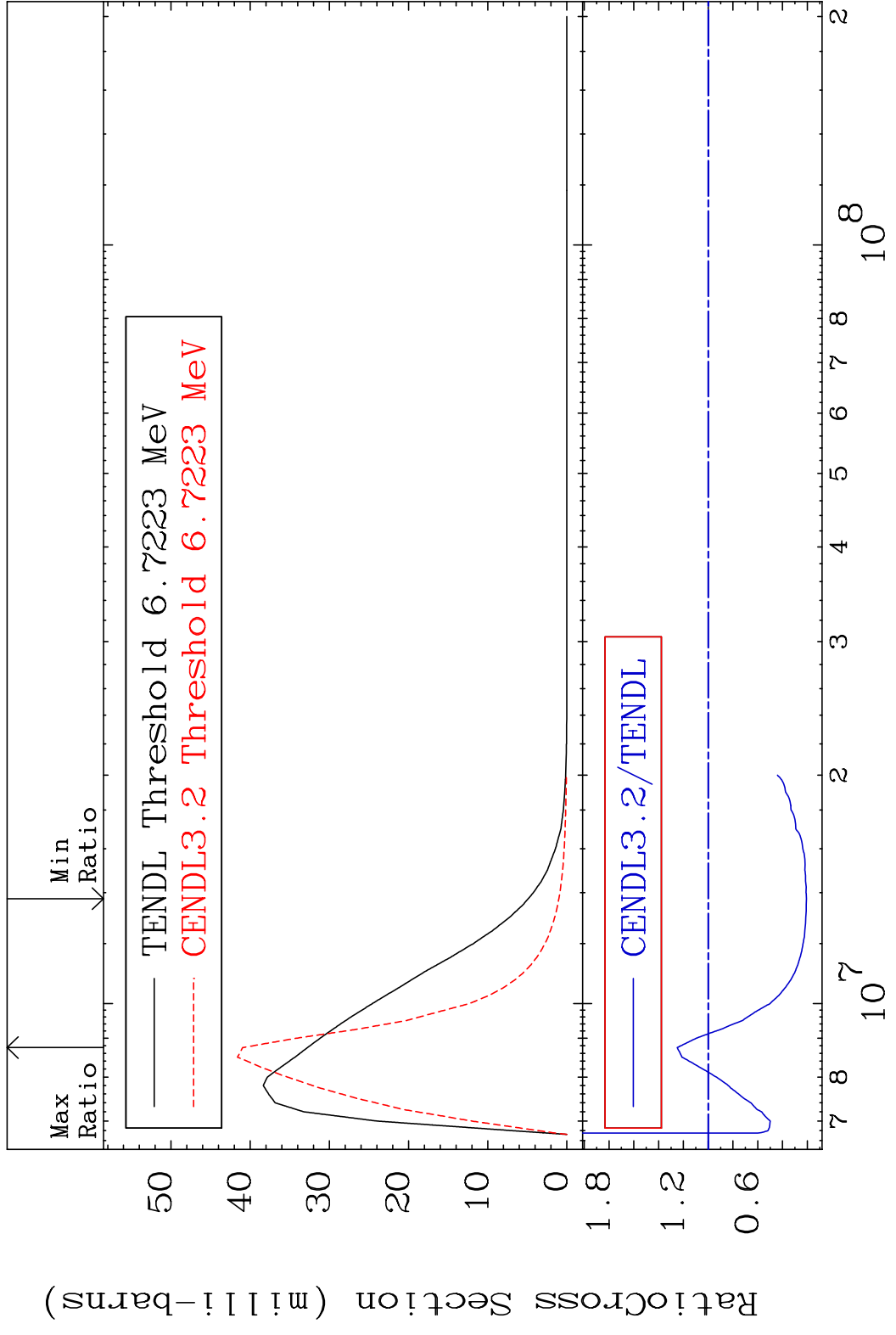


19

Incident Energy (eV)

14-Si-30

MAT 1431 MT= 63 (n, n') Level 14-Si-30
 Cross Section -79.24 To 25.01 %

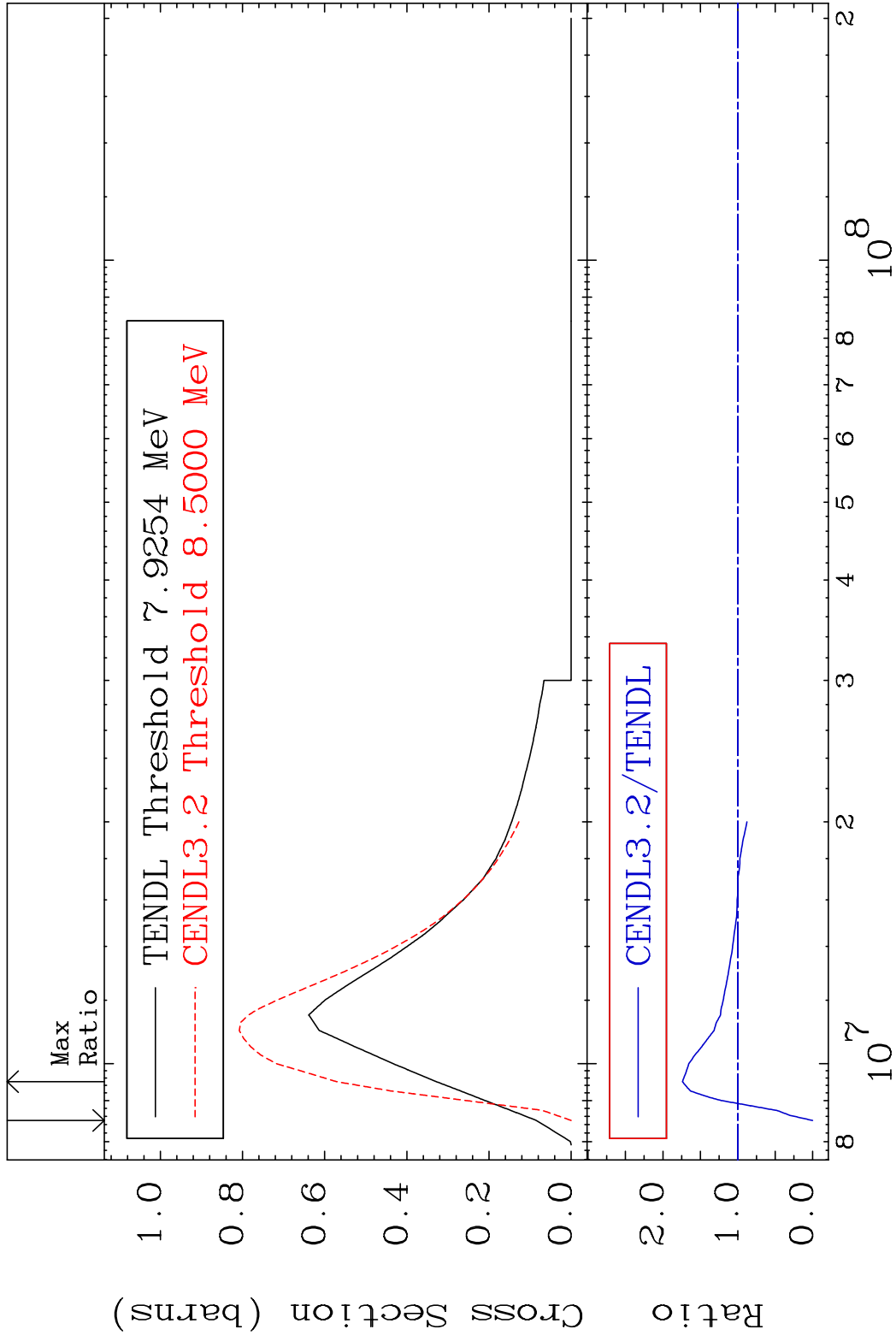


MAT 1431

(n,n') Continuum

¹⁴Si-30

Cross Section -100.0 To 73.99 %



21

Incident Energy (eV)

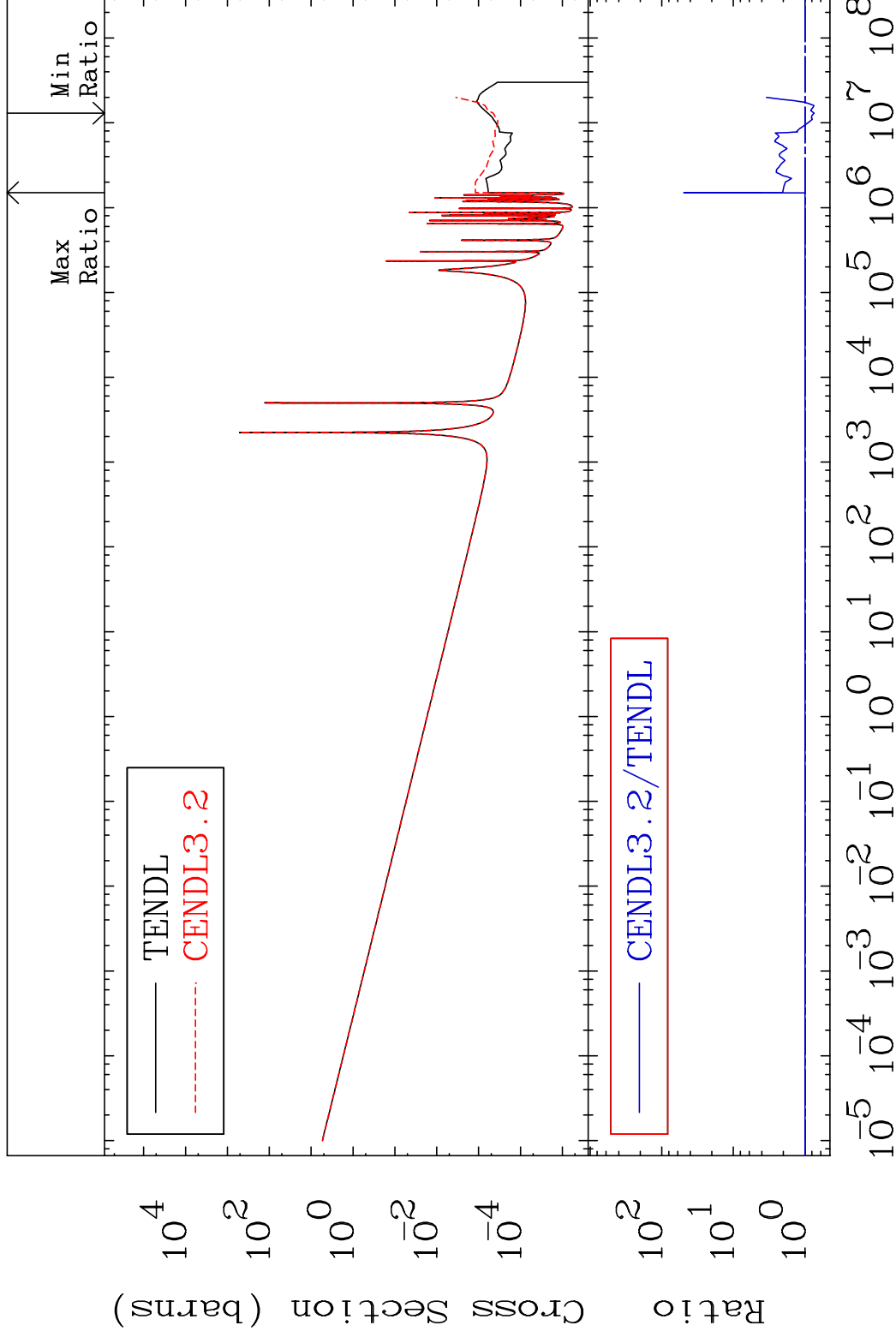
¹⁴Si-30

MAT 1431

(n, γ)

14-Si-30

Cross Section -25.50 To 4849. %



22

Incident Energy (eV)

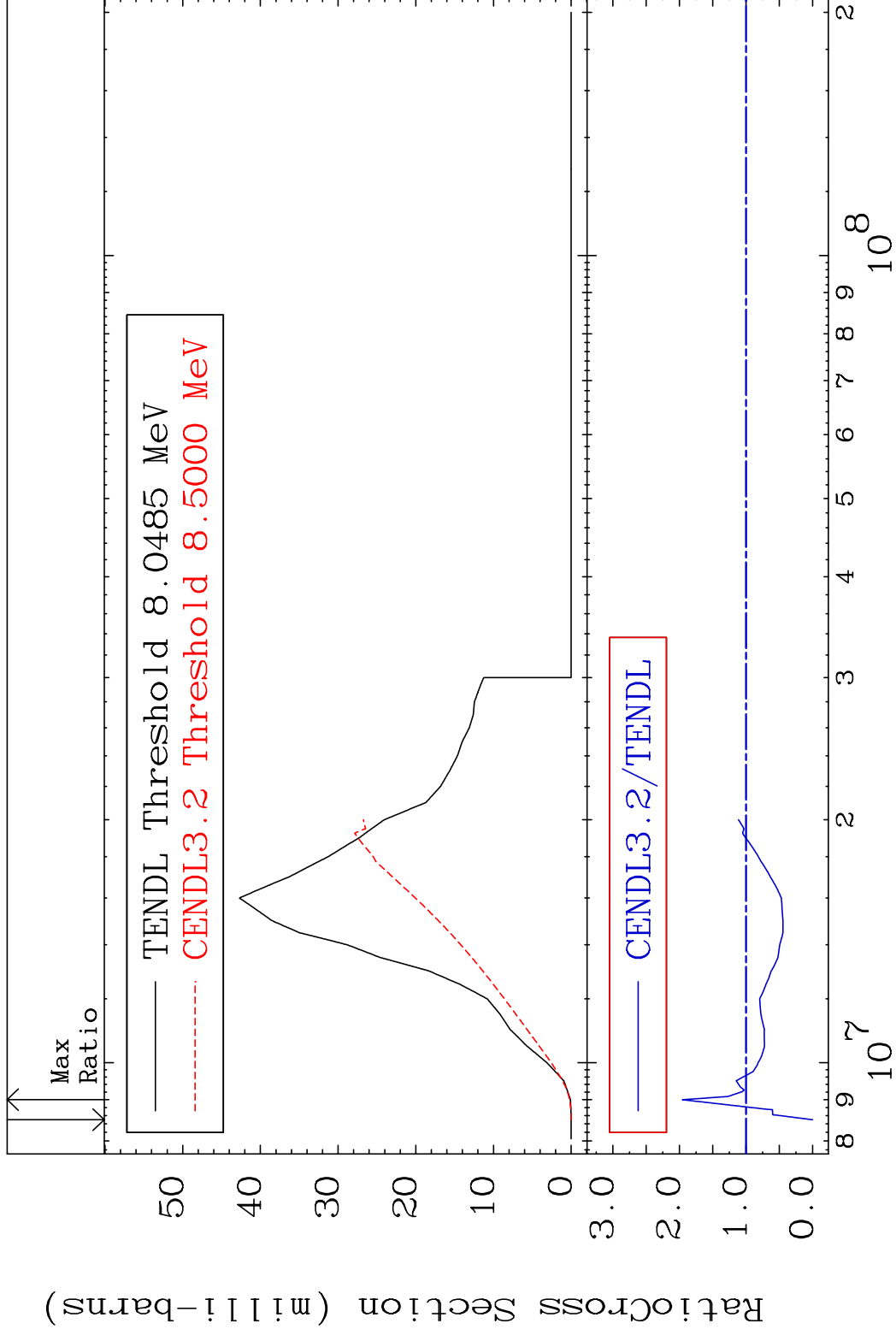
14-Si-30

MAT 1431

(n,p)

14-Si-30

Cross Section -100.0 To 95.67 %



23

Incident Energy (eV)

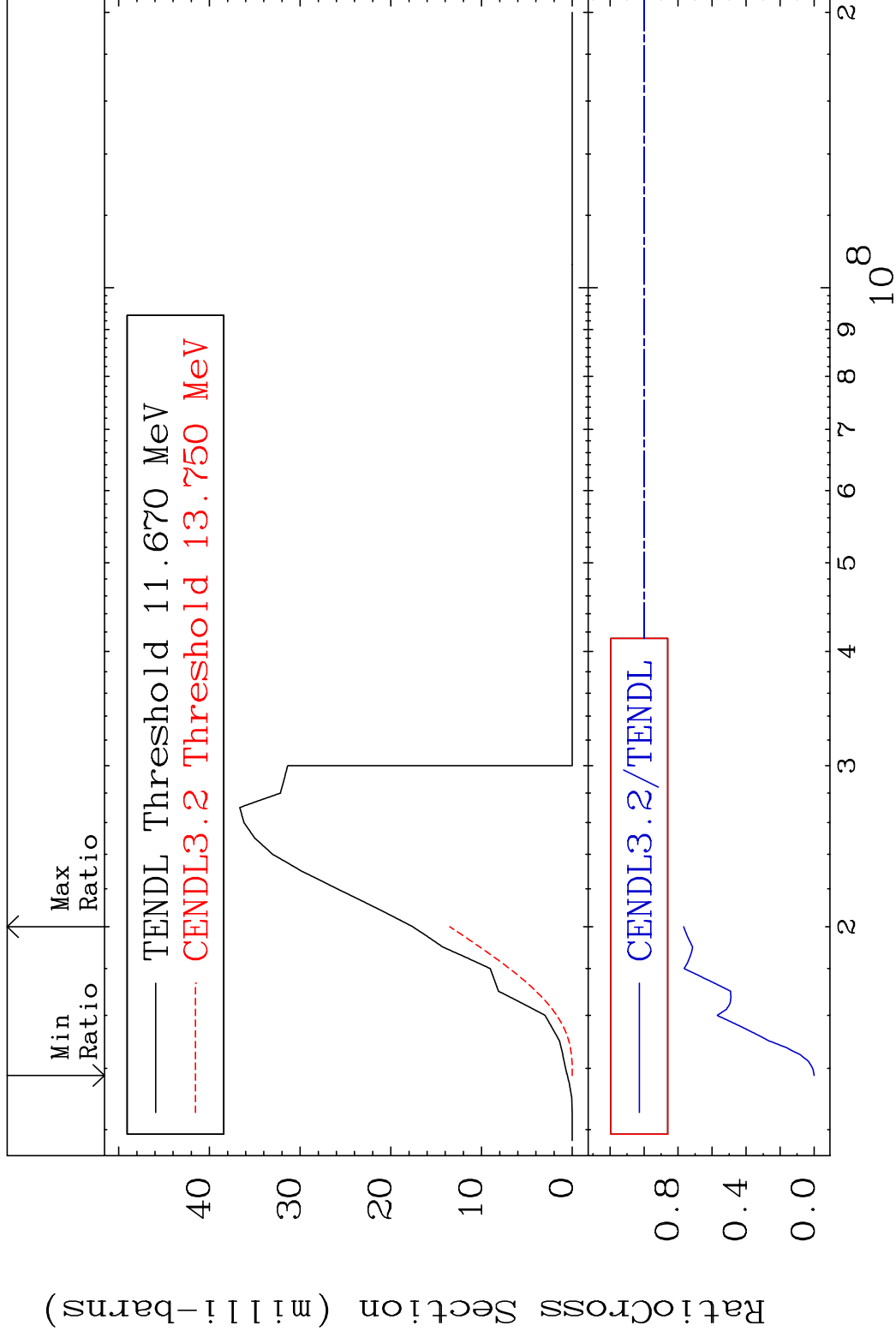
14-Si-30

MAT 1431

(n,d)

14-Si-30

Cross Section -100.0 To -23.28%

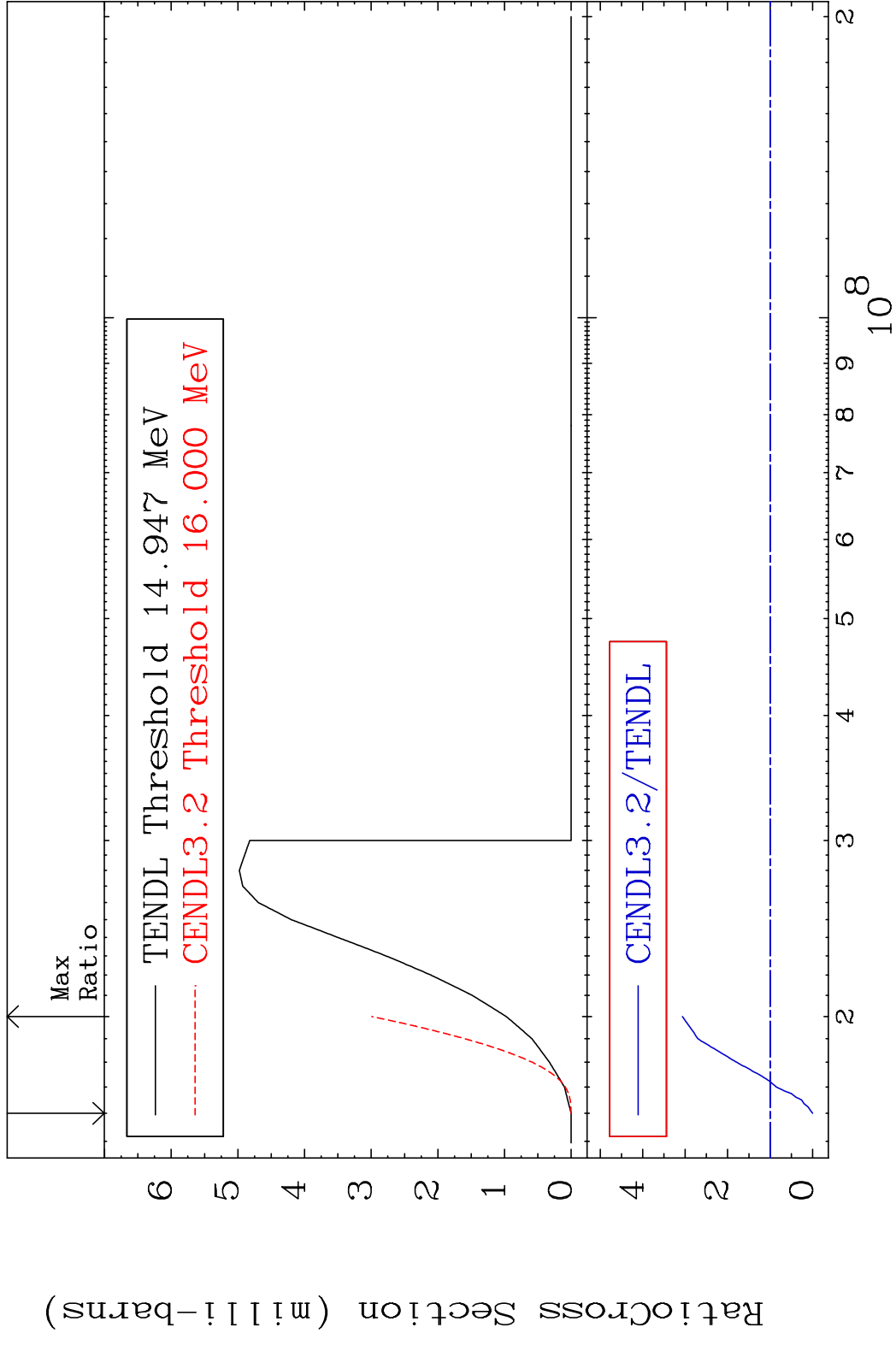


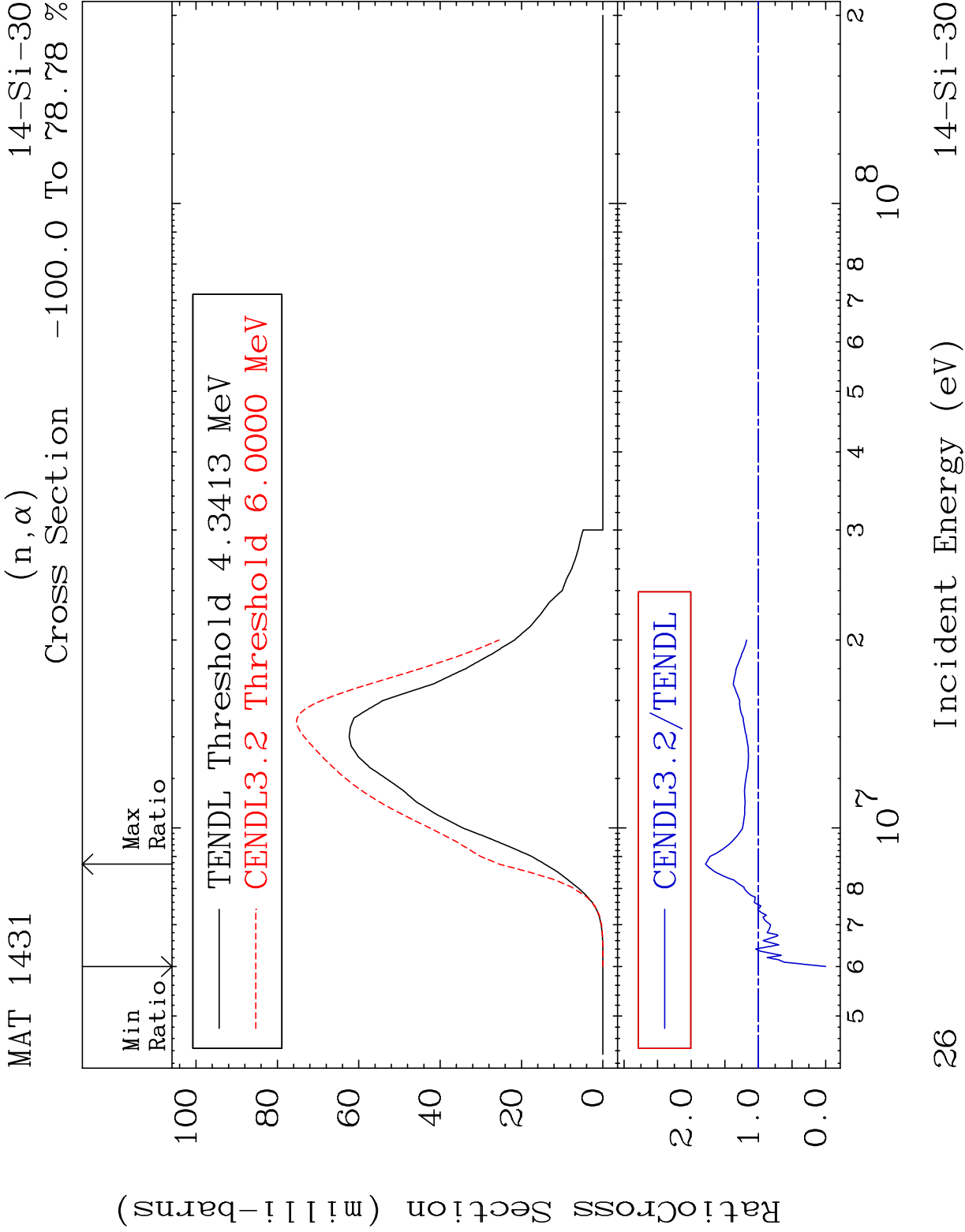
24

Incident Energy (eV)

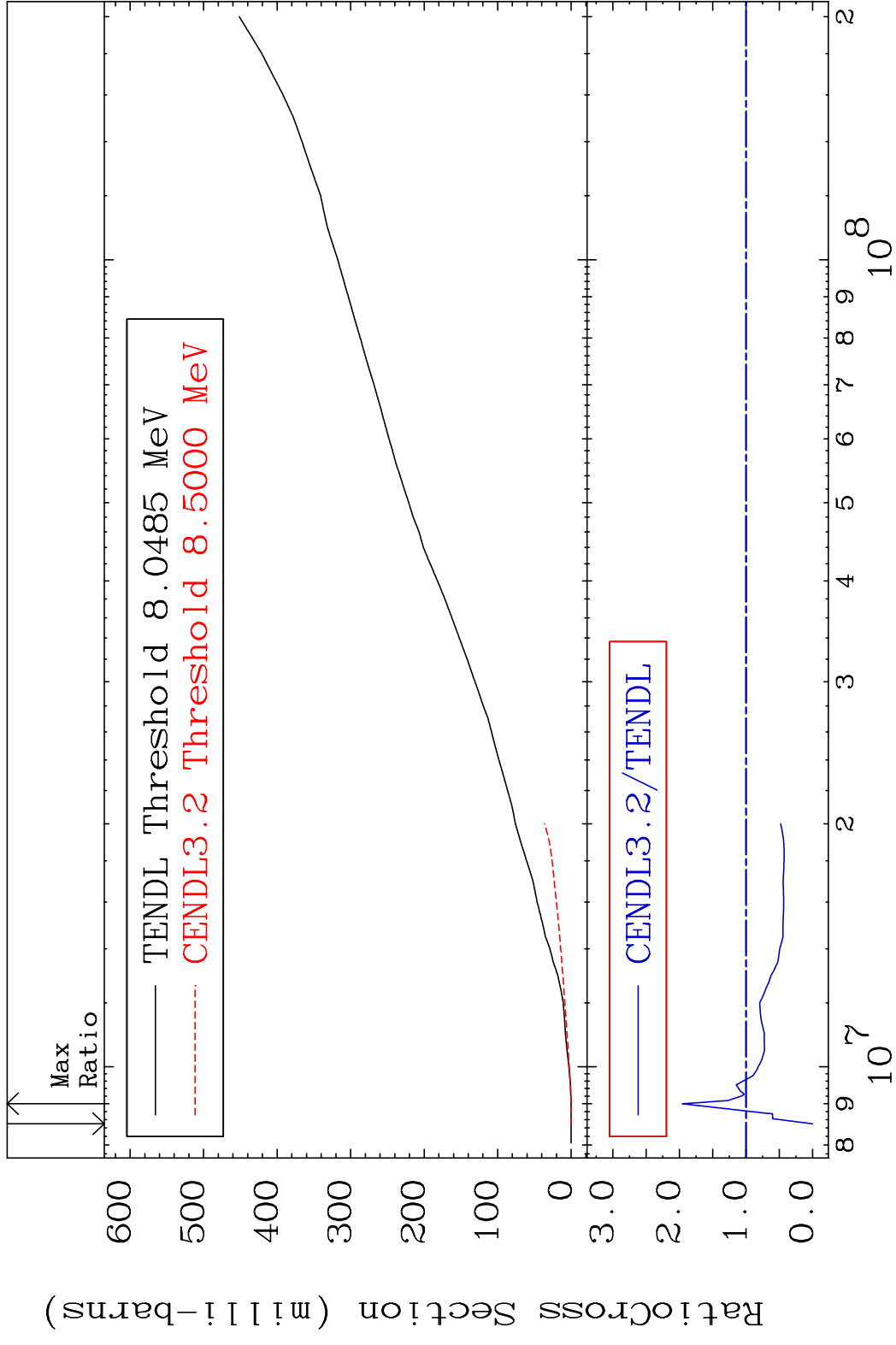
14-Si-30

MAT 1431 (n, t) 14-Si-30
 Cross Section -100.0 To 206.7 %

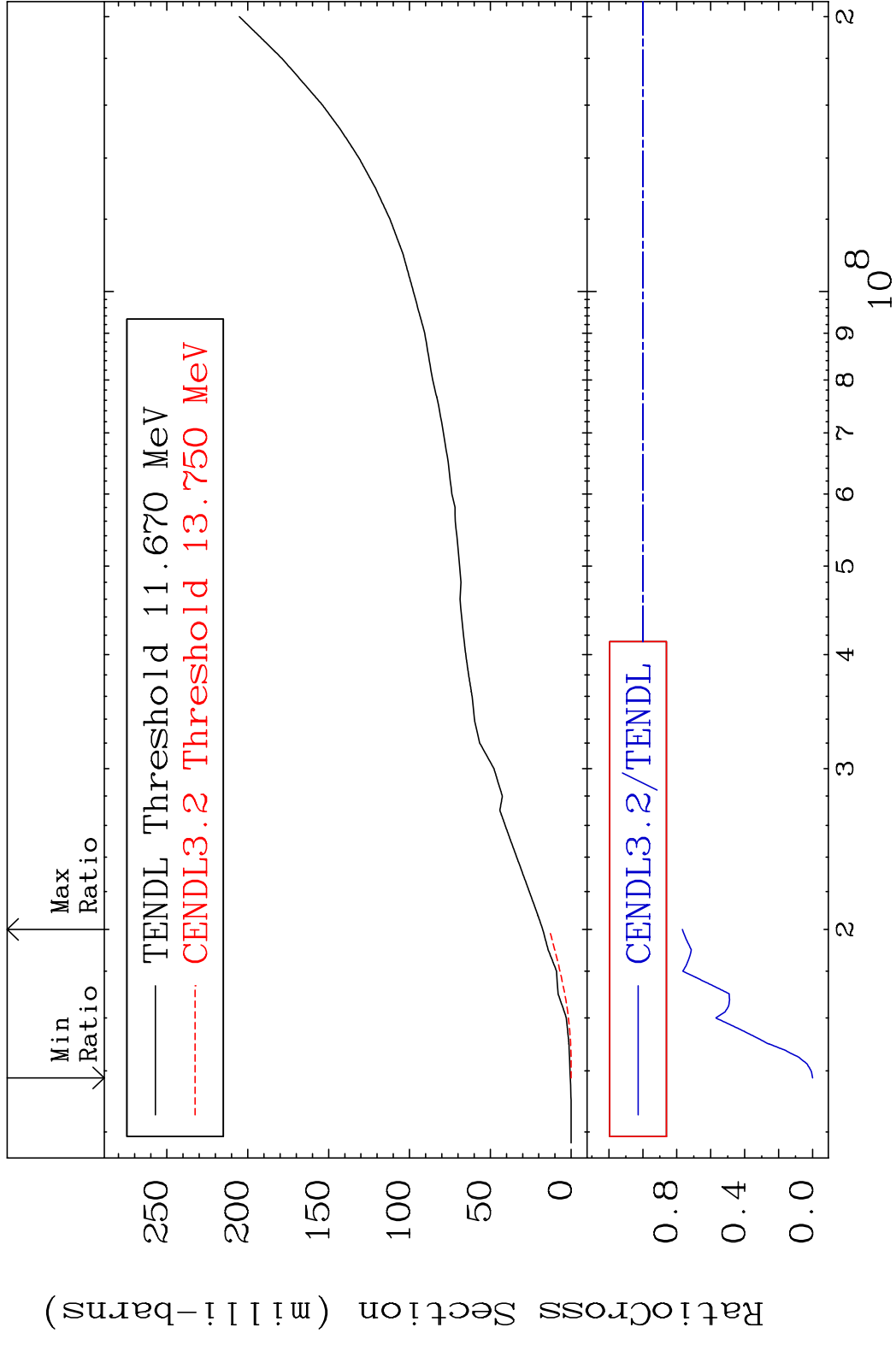




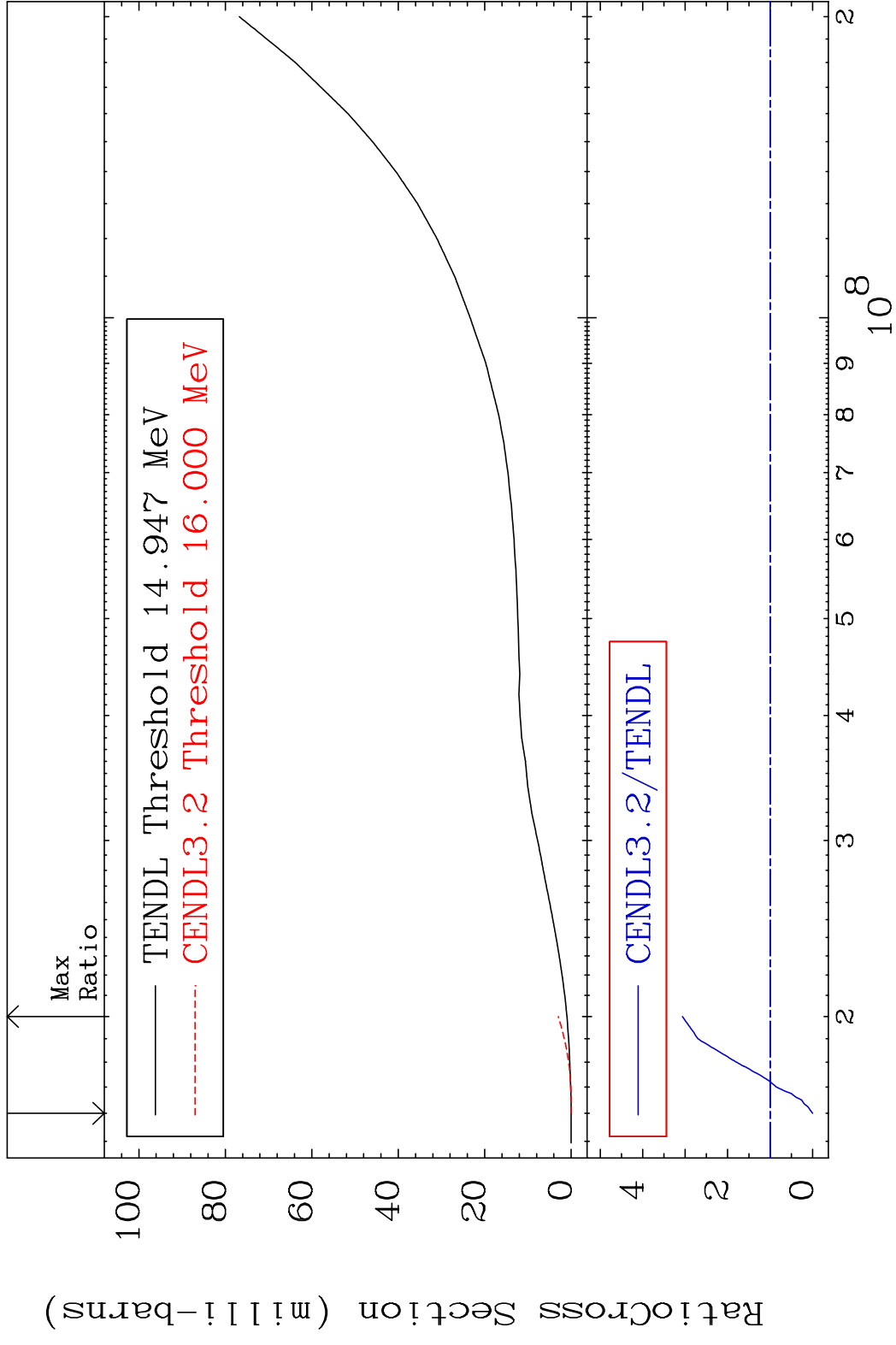
MAT 1431 Hydrogen Production 14-Si-30
 Cross Section -100.0 To 95.67 %



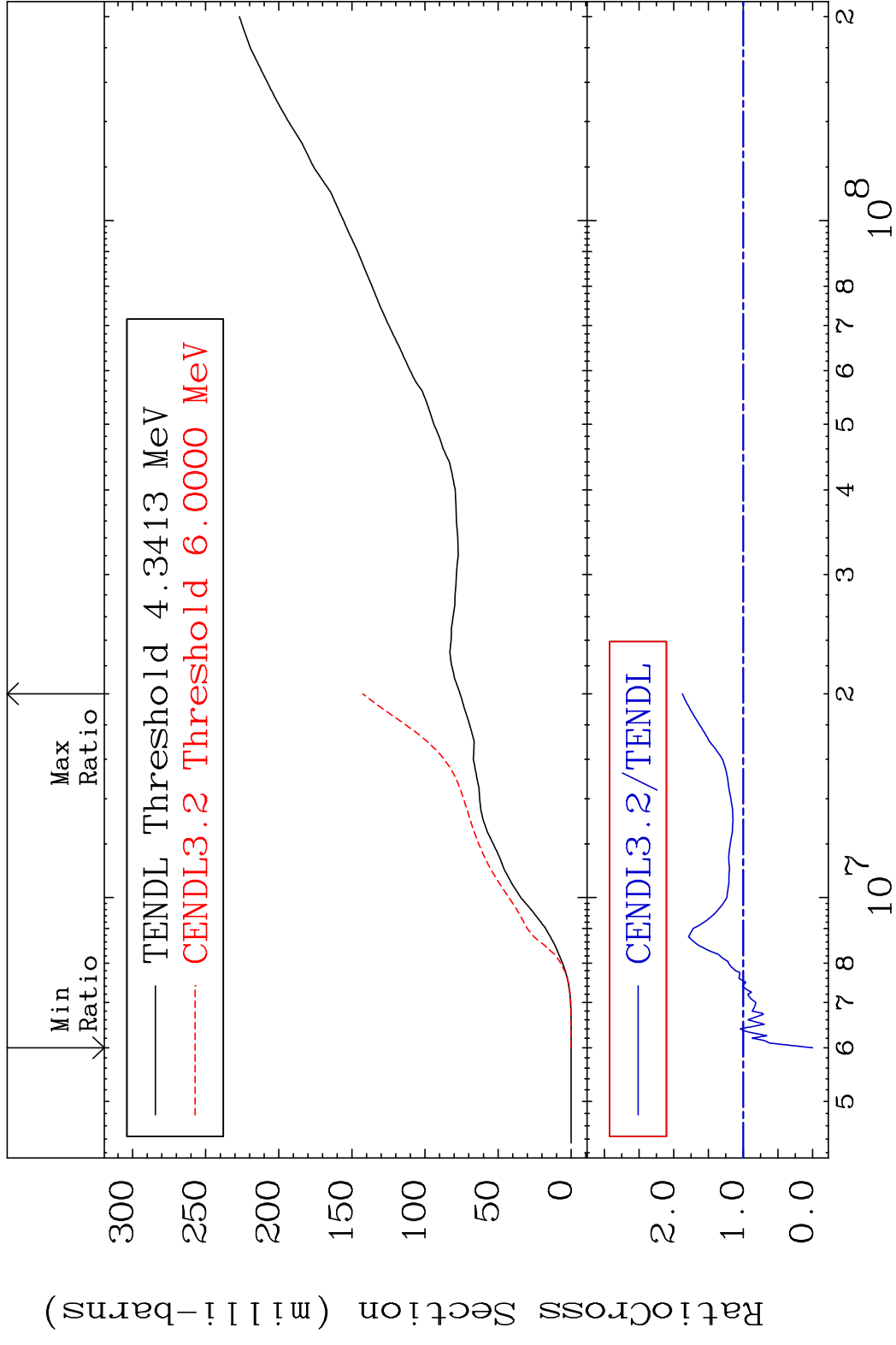
MAT 1431 Deuterium Production 14-Si-30
 Cross Section -100.0 To -23.28%



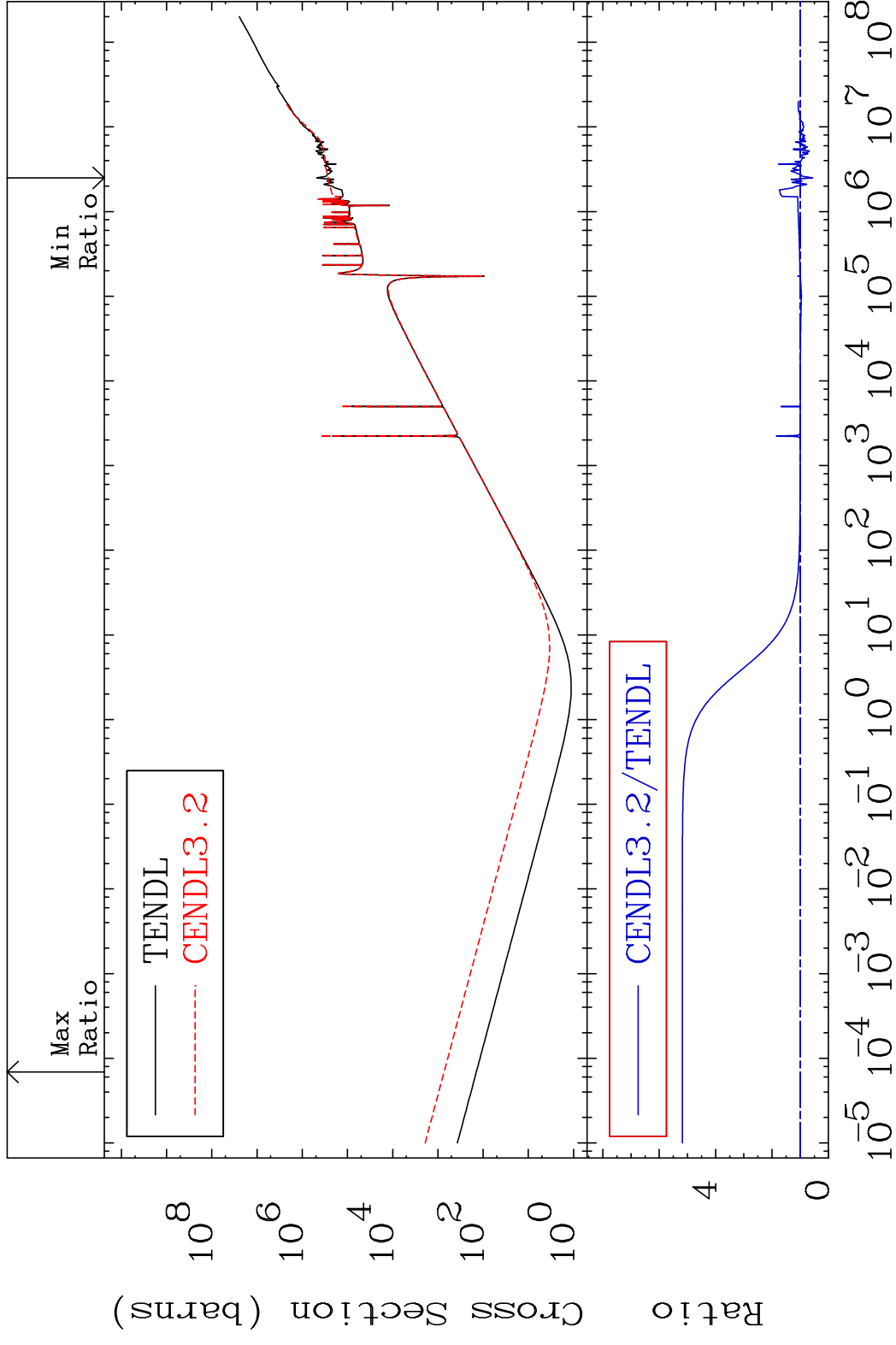
MAT 1431 Tritium Production 14-Si-30
 Cross Section -100.0 To 206.7 %



MAT 1431 He-4 Production 14-Si-30
 Cross Section -100.0 To 87.66 %



MAT 1431 Kerma total (eV-barns) 14-Si-30
 Cross Section -43.72 To 418.0 %

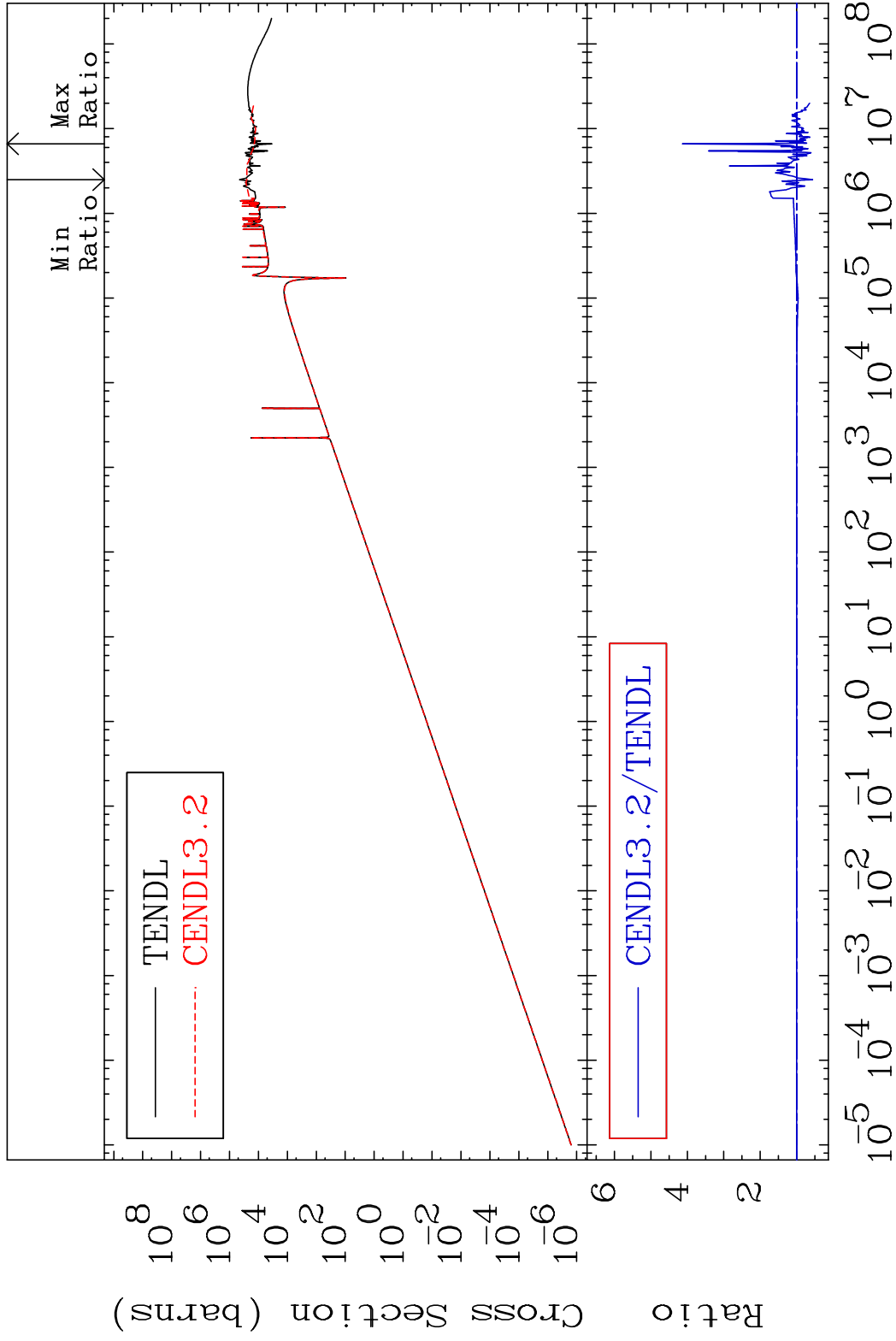


31 Incident Energy (eV) 14-Si-30

MAT 1431

Kerma elastic
Cross Section

14-Si-30
-43.76 To 313.7 %

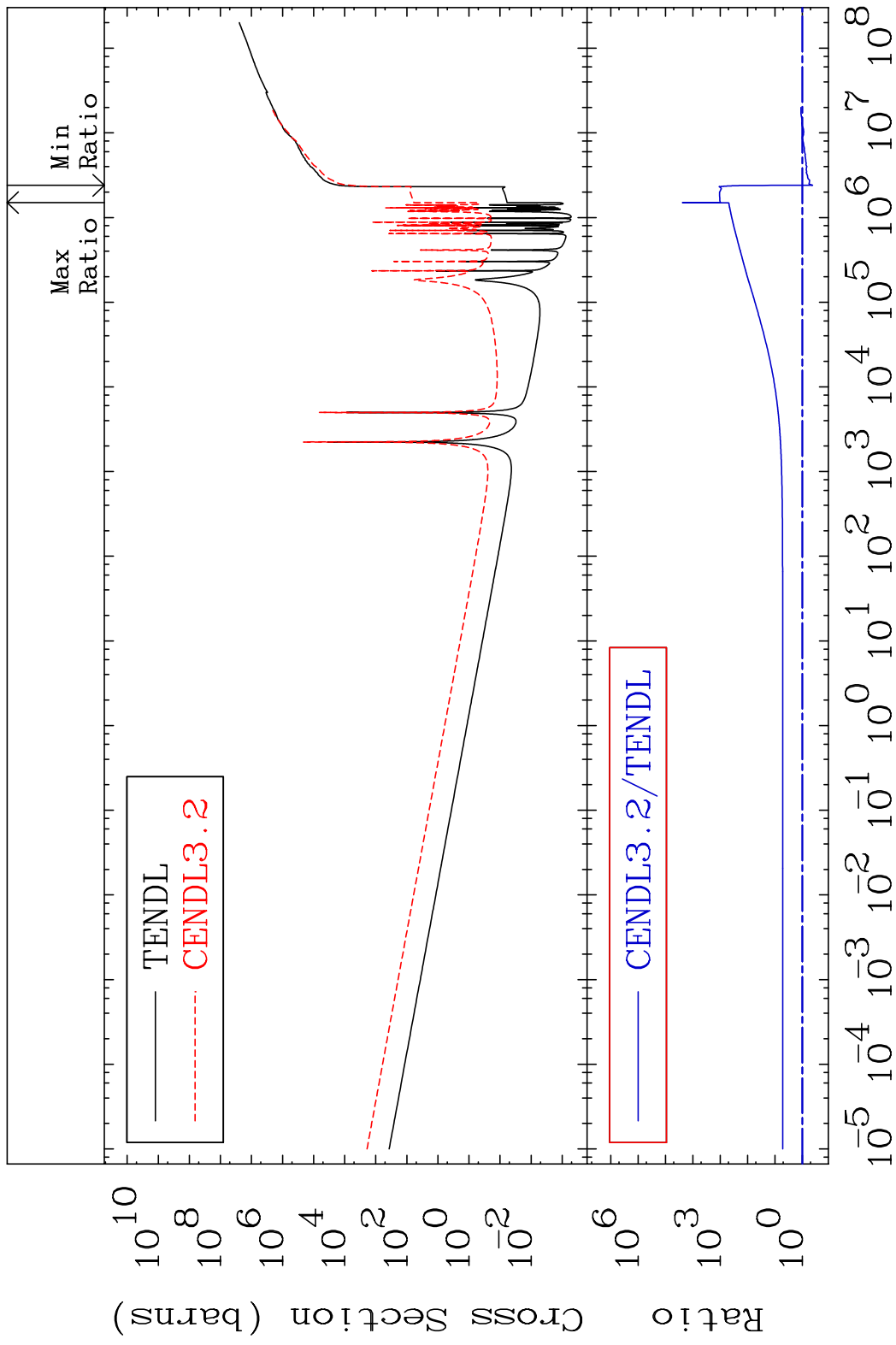


32

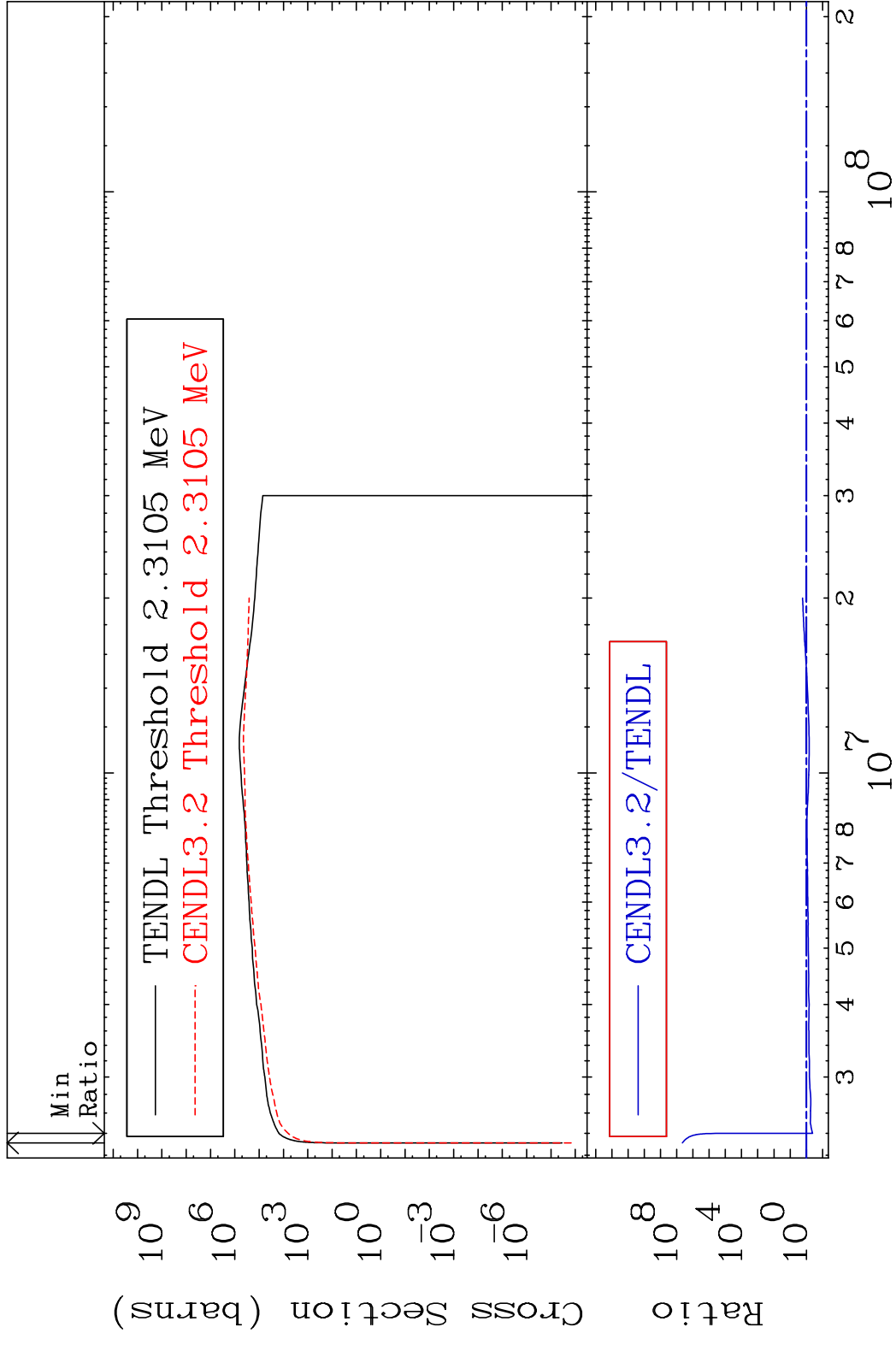
Incident Energy (eV)

14-Si-30

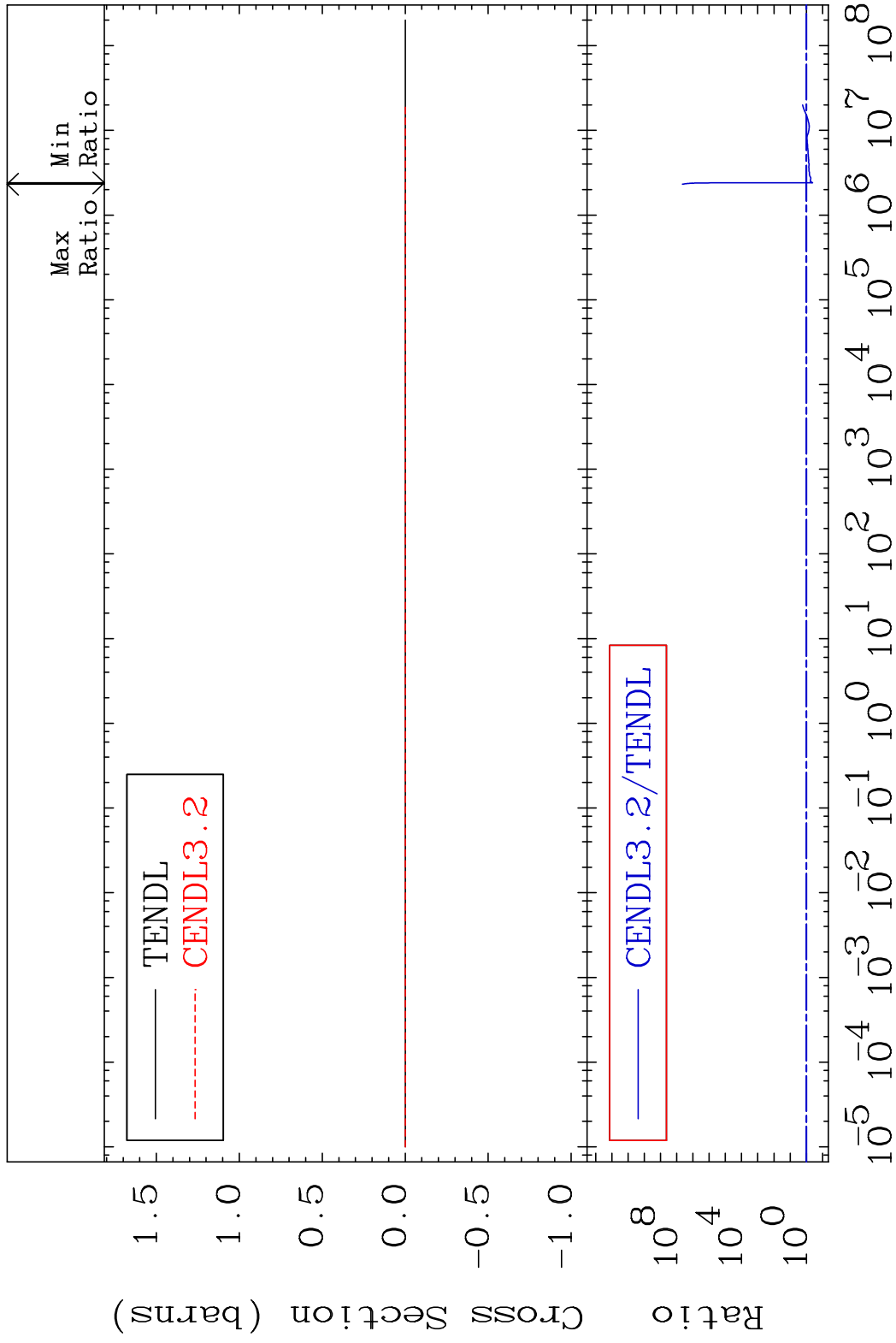
MAT 1431 Kerma non-elastic (all but mt2) 14-Si-30
 Cross Section -58.08 To 9999. %



MAT 1431 Kerma inelastic (mt51-91) 14-Si-30
 Cross Section -58.54 To 9999. %



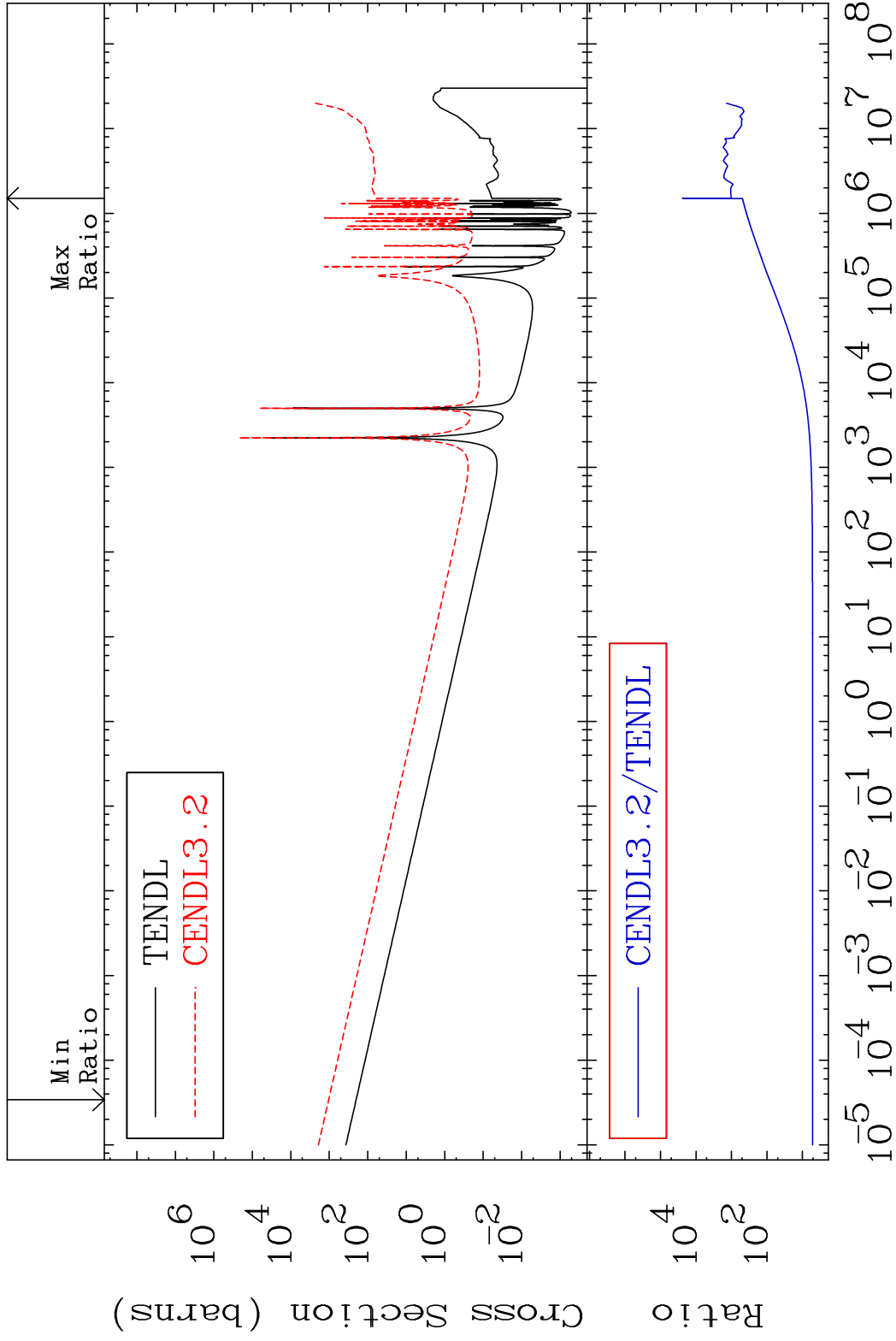
MAT 1431 Kerma fission (mt18 or mt19-20-21-38) 14-Si-30
 Cross Section -58.54 To 9999. %



MAT 1431

Kerma capture (mt102) 14-Si-30

Cross Section 418.0 To 9999. %



36

Incident Energy (eV)

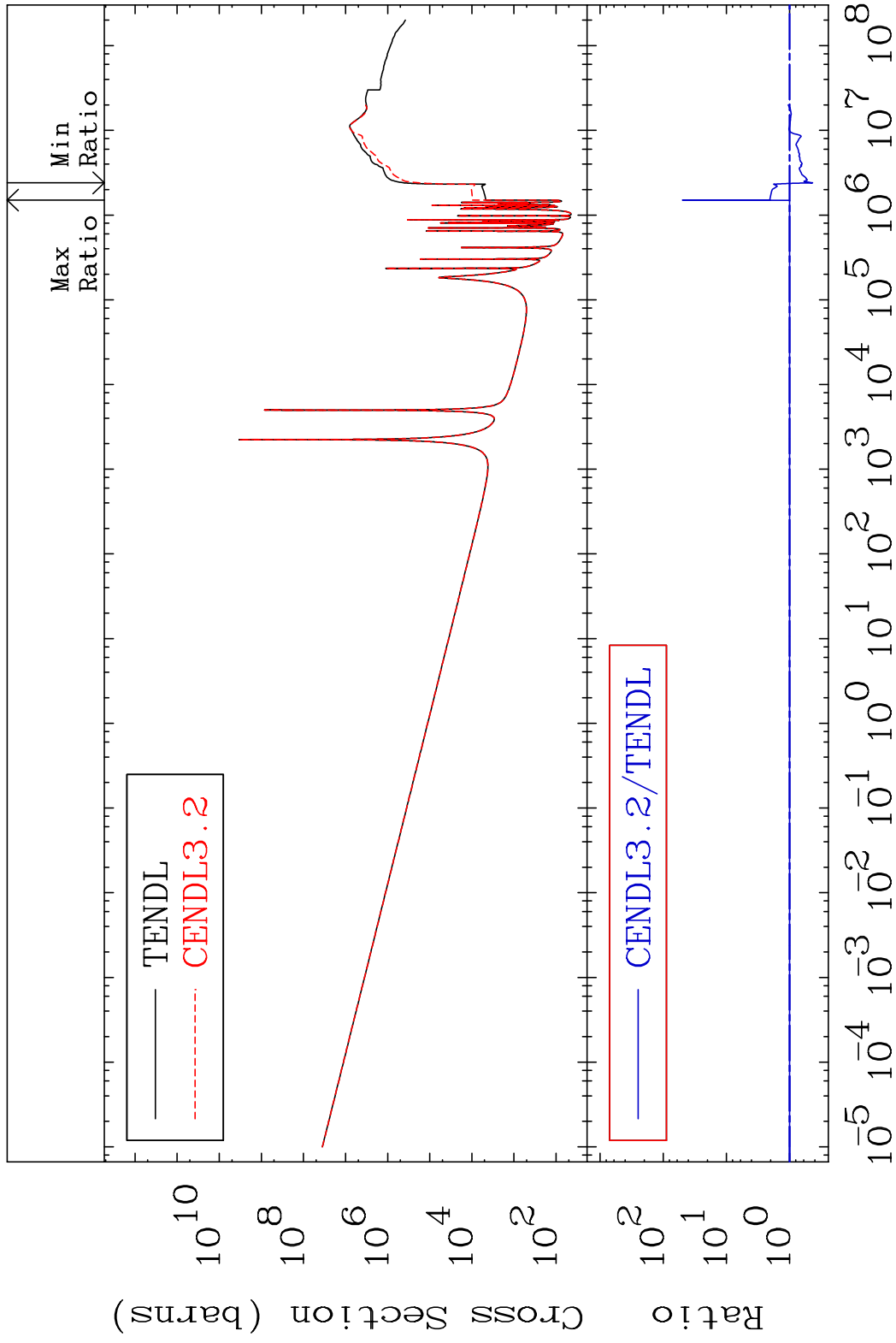
14-Si-30

MAT 1431

Total photon (eV-barns)

14-Si-30

Cross Section -56.58 To 4882. %

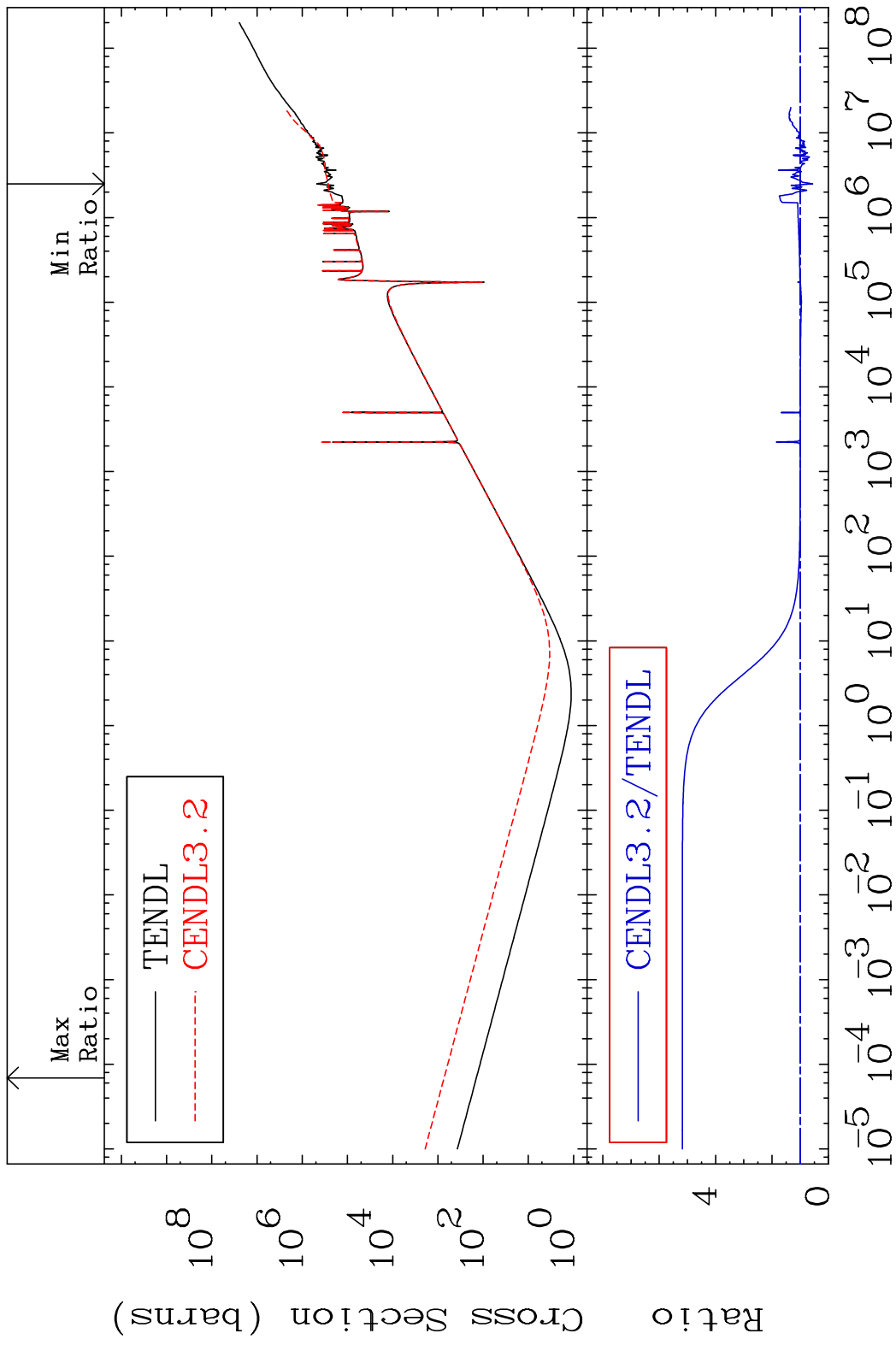


37

Incident Energy (eV)

14-Si-30

MAT 1431 Total kinematic kerma (high limit) 14-Si-30
 Cross Section -43.72 To 418.0 %

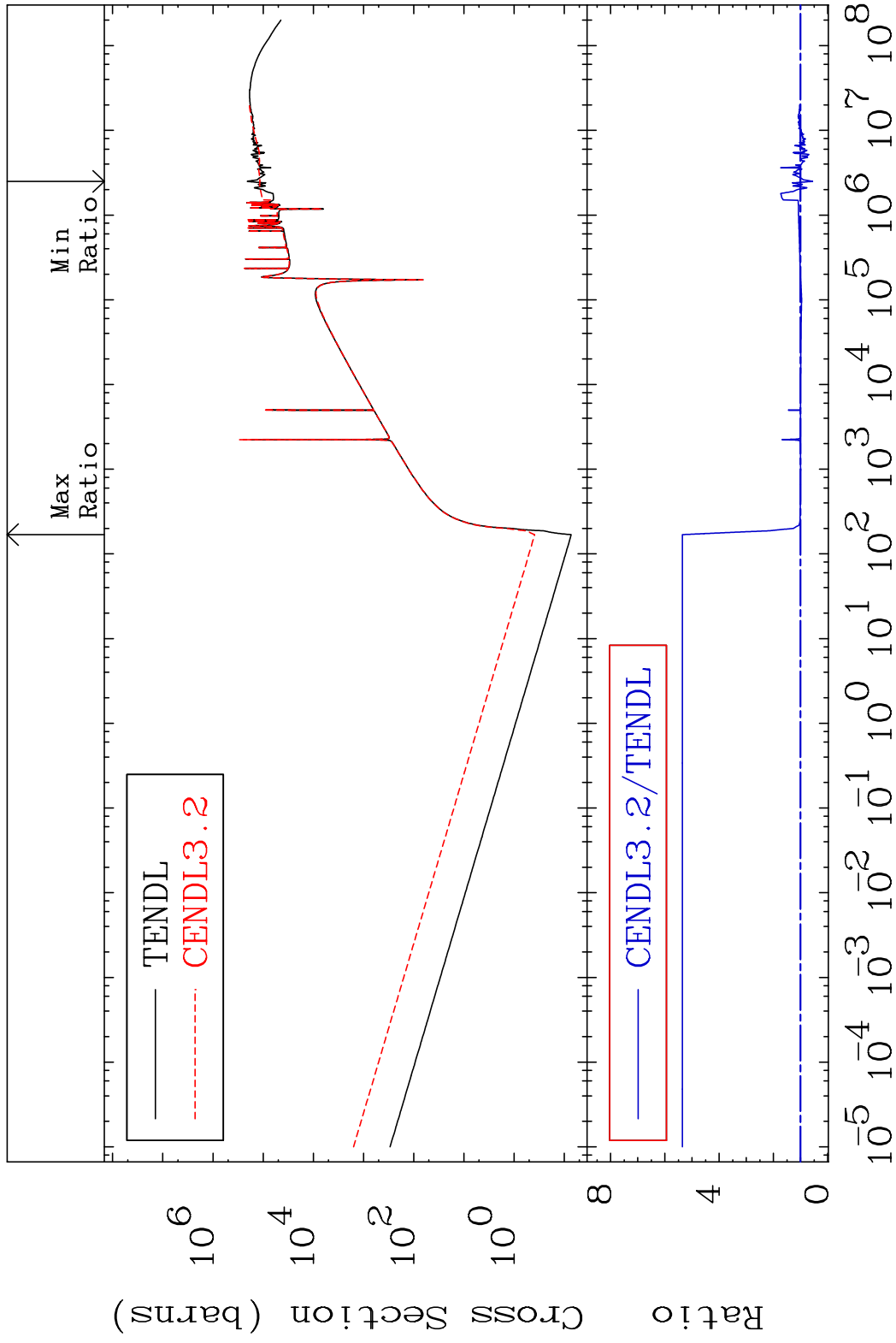


MAT 1431

Dpa total (eV-barns)

14-Si-30

Cross Section -44.28 To 435.6 %



39

Incident Energy (eV)

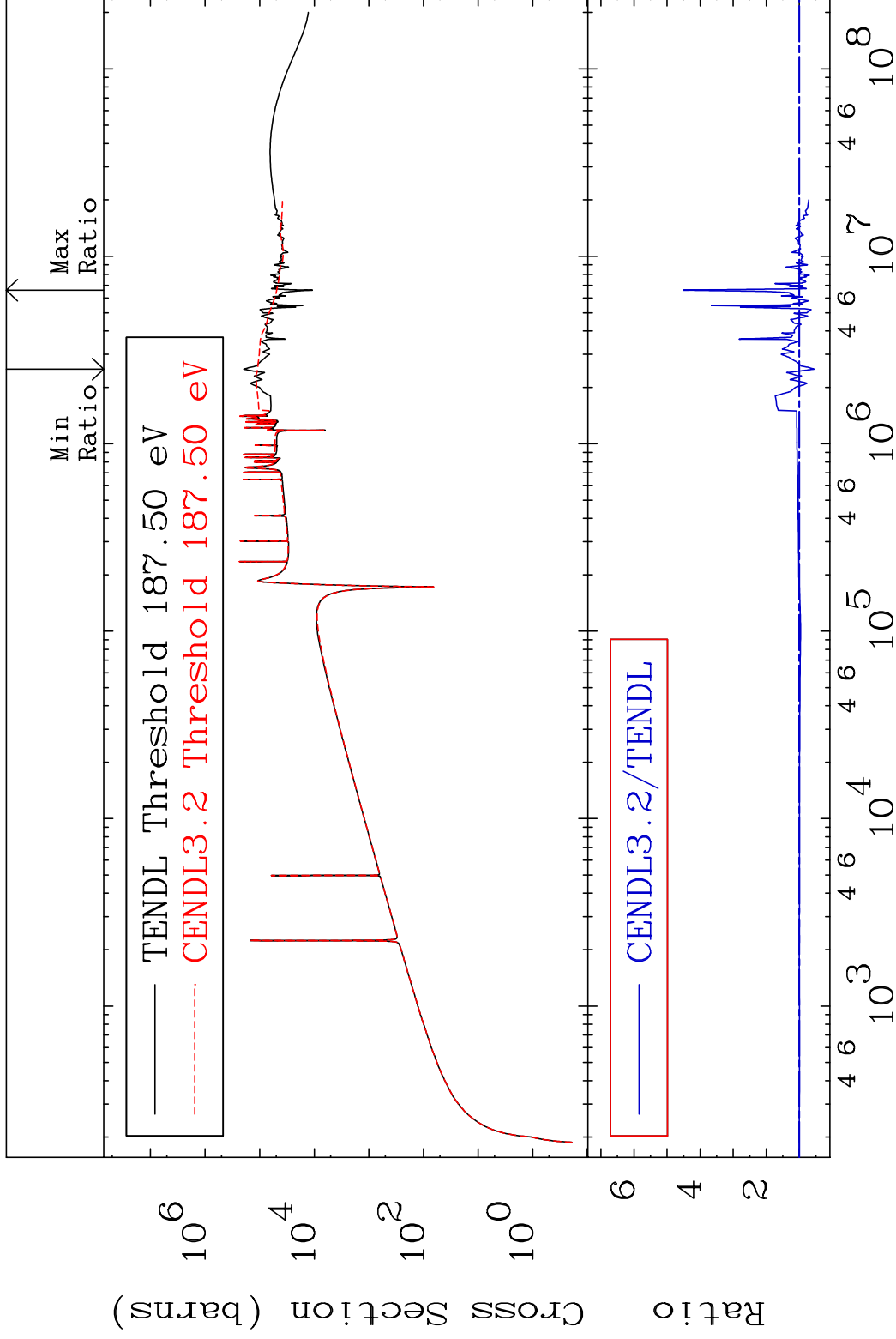
14-Si-30

MAT 1431

Dpa elastic (mt2)

14-Si-30

Cross Section -44.47 To 350.5 %

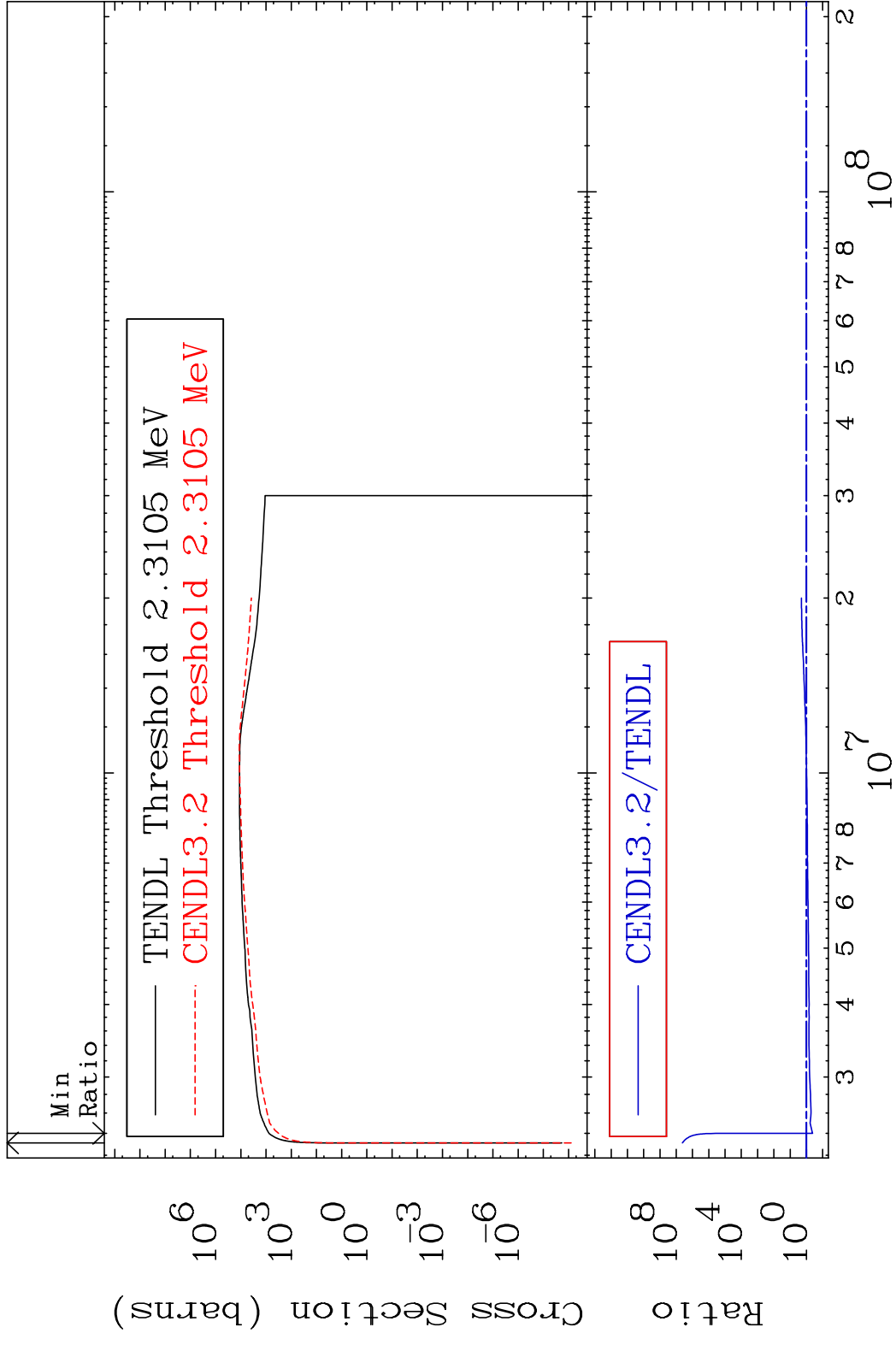


40

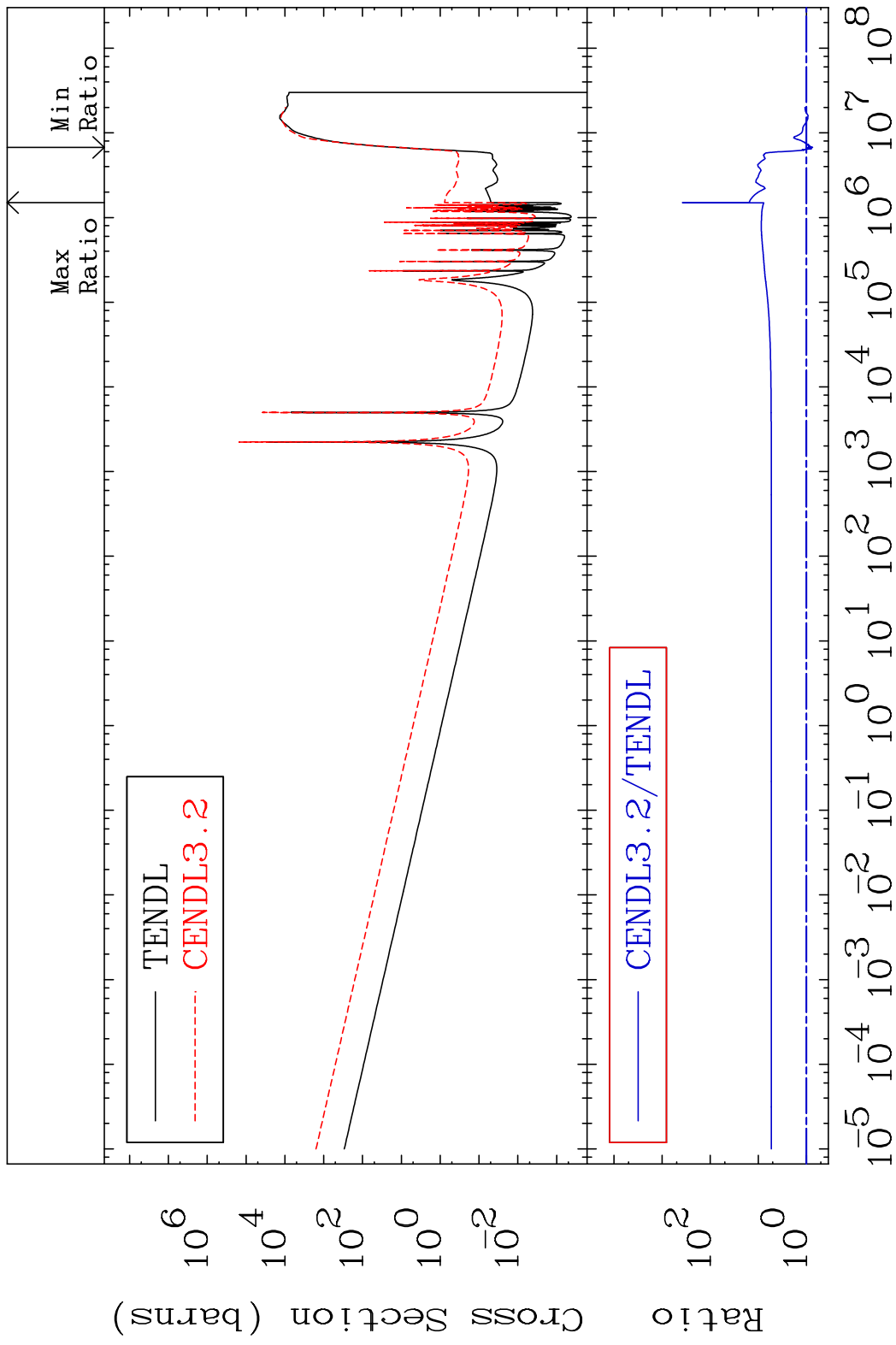
Incident Energy (eV)

14-Si-30

MAT 1431 Dpa inelastic (mt51-91) 14-Si-30
 Cross Section -57.92 To 9999. %

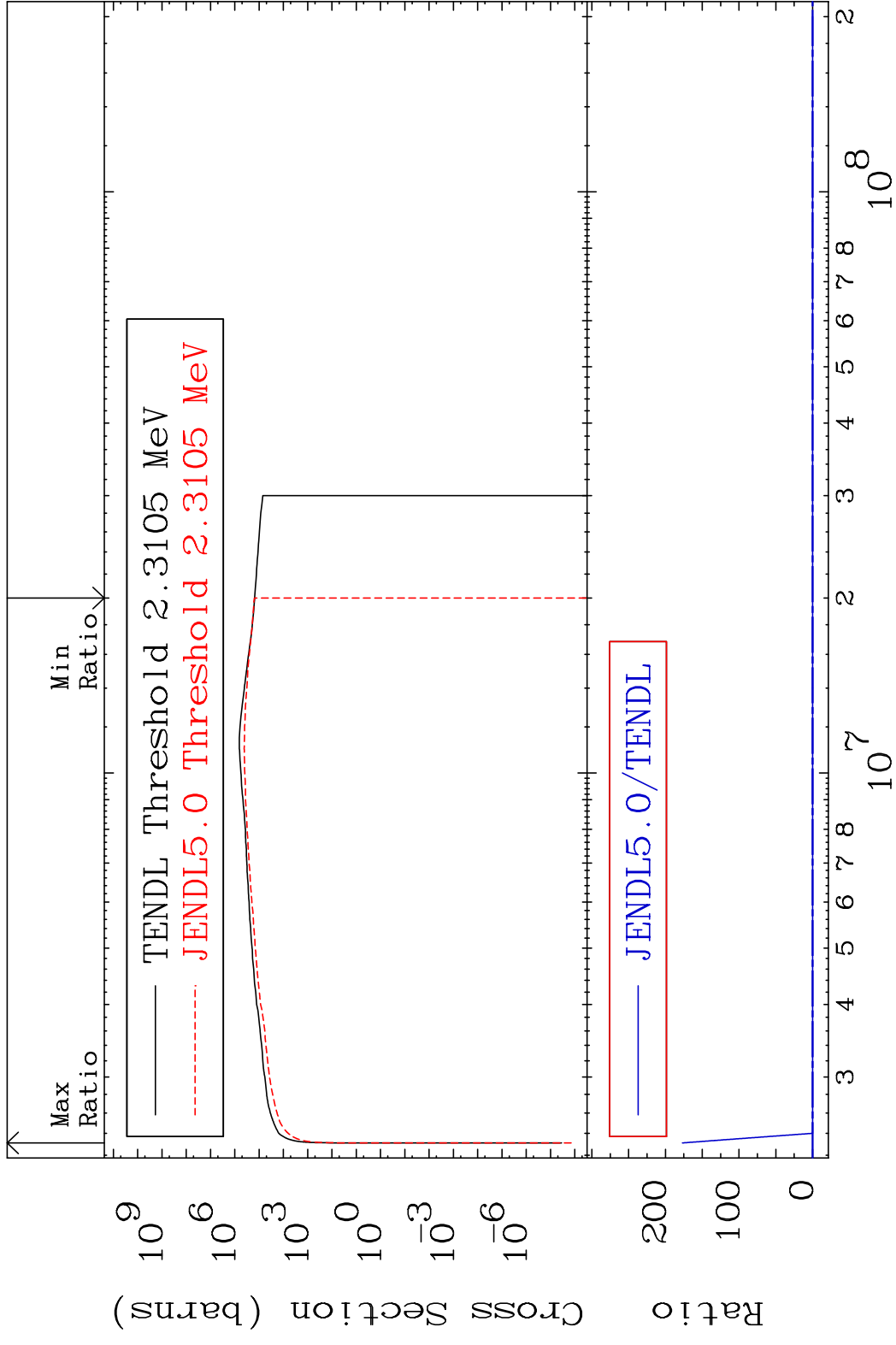


MAT 1431 Dpa disappearance (mt102 -120) 14-Si-30
 Cross Section -25.48 To 9999. %

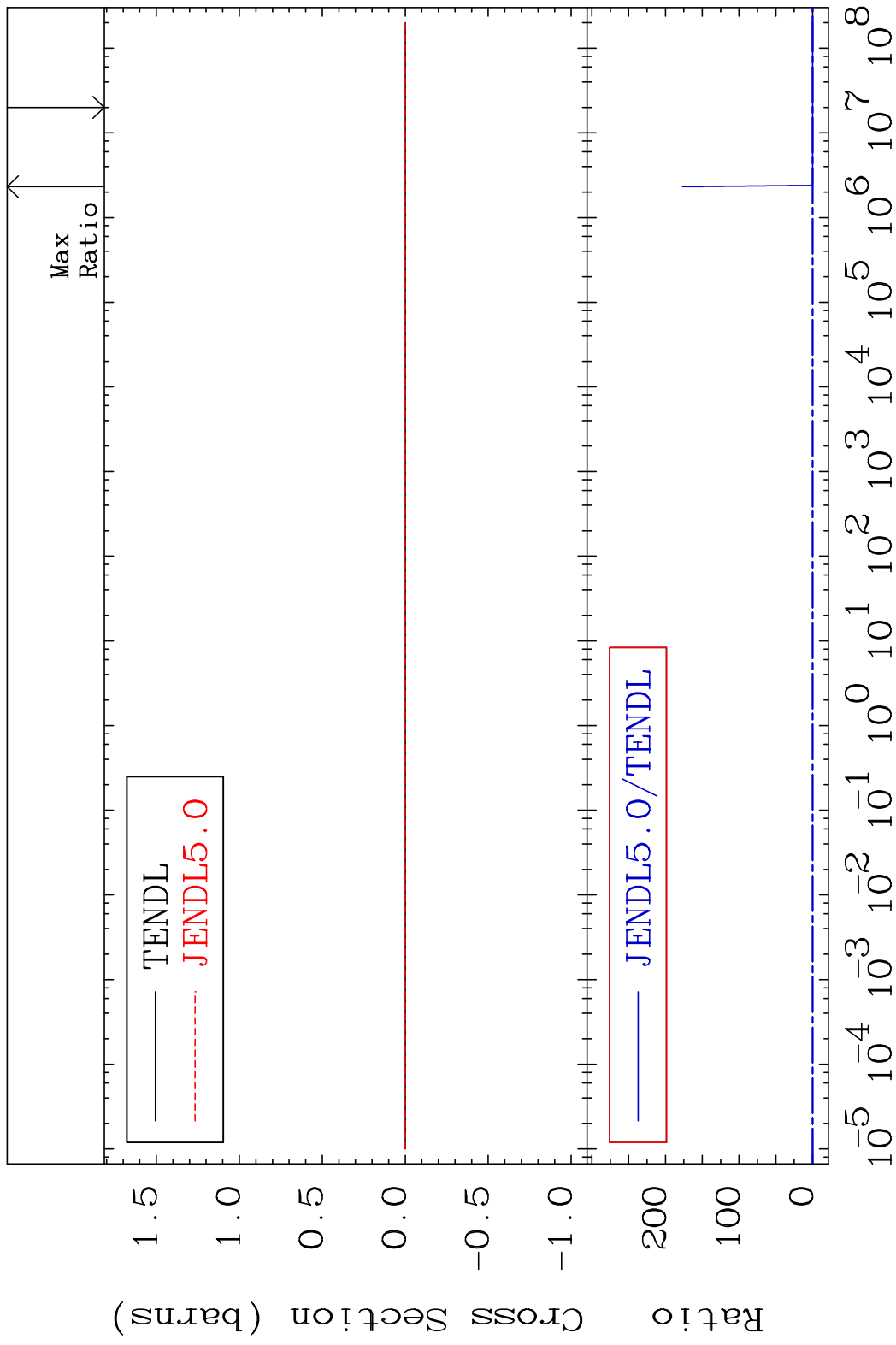


42 Incident Energy (eV) 14-Si-30

MAT 1431 Kerma inelastic (mt51-91) 14-Si-30
 Cross Section -100.0 To 9999. %



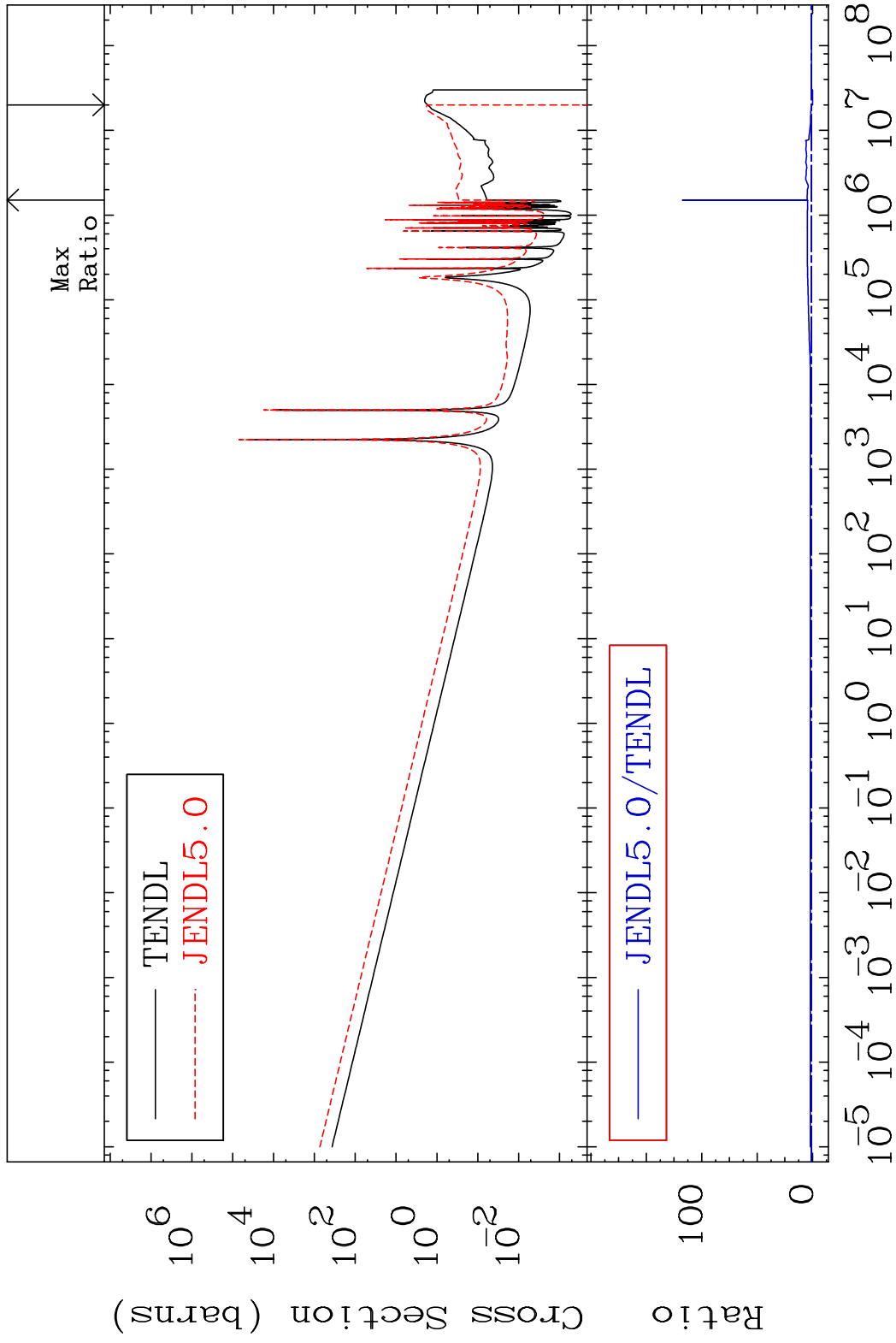
MAT 1431 Kerma fission (mt18 or mt19-20-21-38) 14-Si-30
 Cross Section -100.0 To 9999. %



MAT 1431

Kerma capture (mt102) 14-Si-30

Cross Section -100.0 To 9999. %

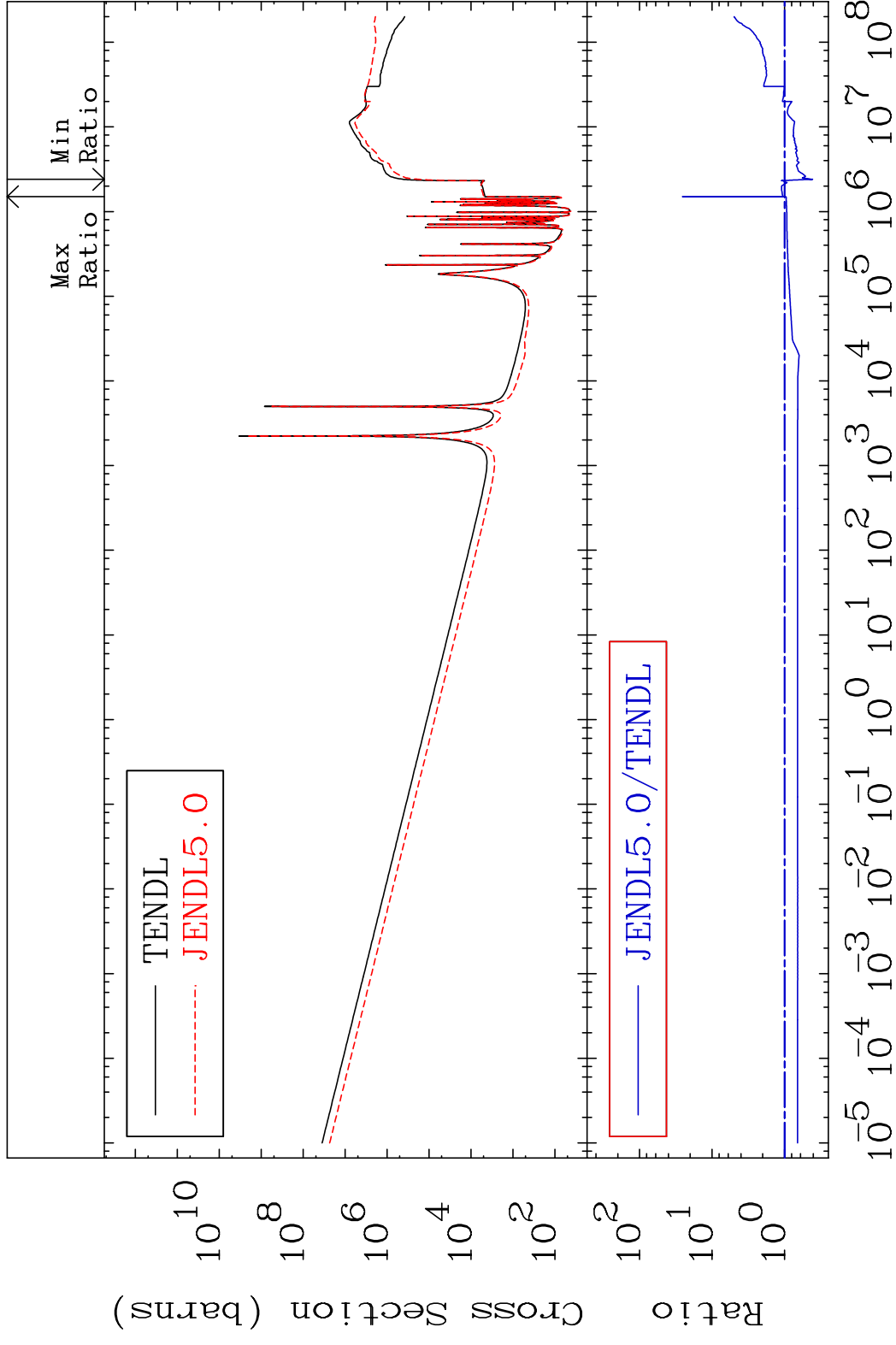


45

Incident Energy (eV)

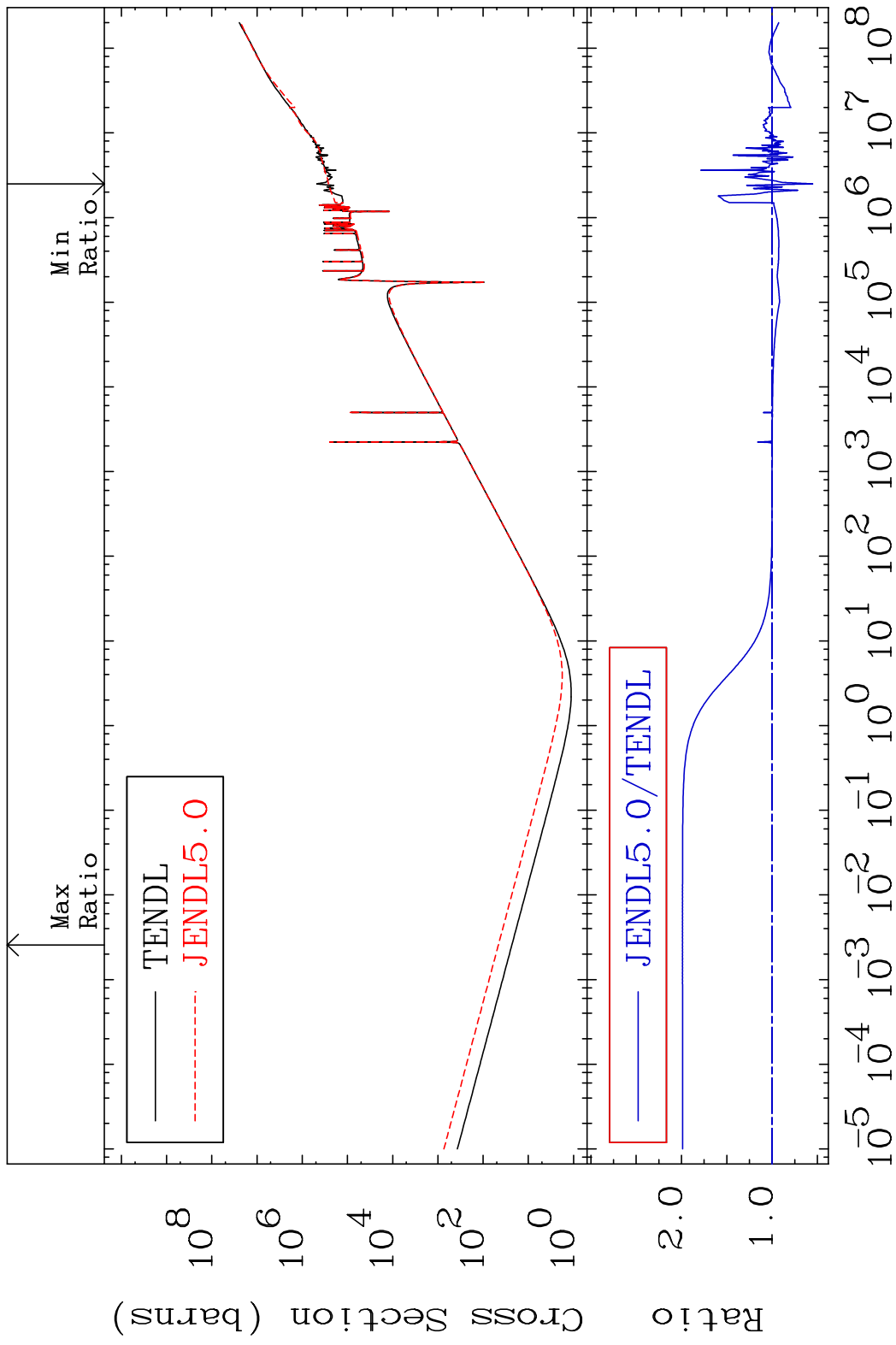
14-Si-30

MAT 1431 Total photon (eV-barns) 14-Si-30
Cross Section -58.97 To 2470. %



46 Incident Energy (eV) 14-Si-30

MAT 1431 Total kinematic kerma (high limit) 14-Si-30
 Cross Section -44.70 To 99.04 %

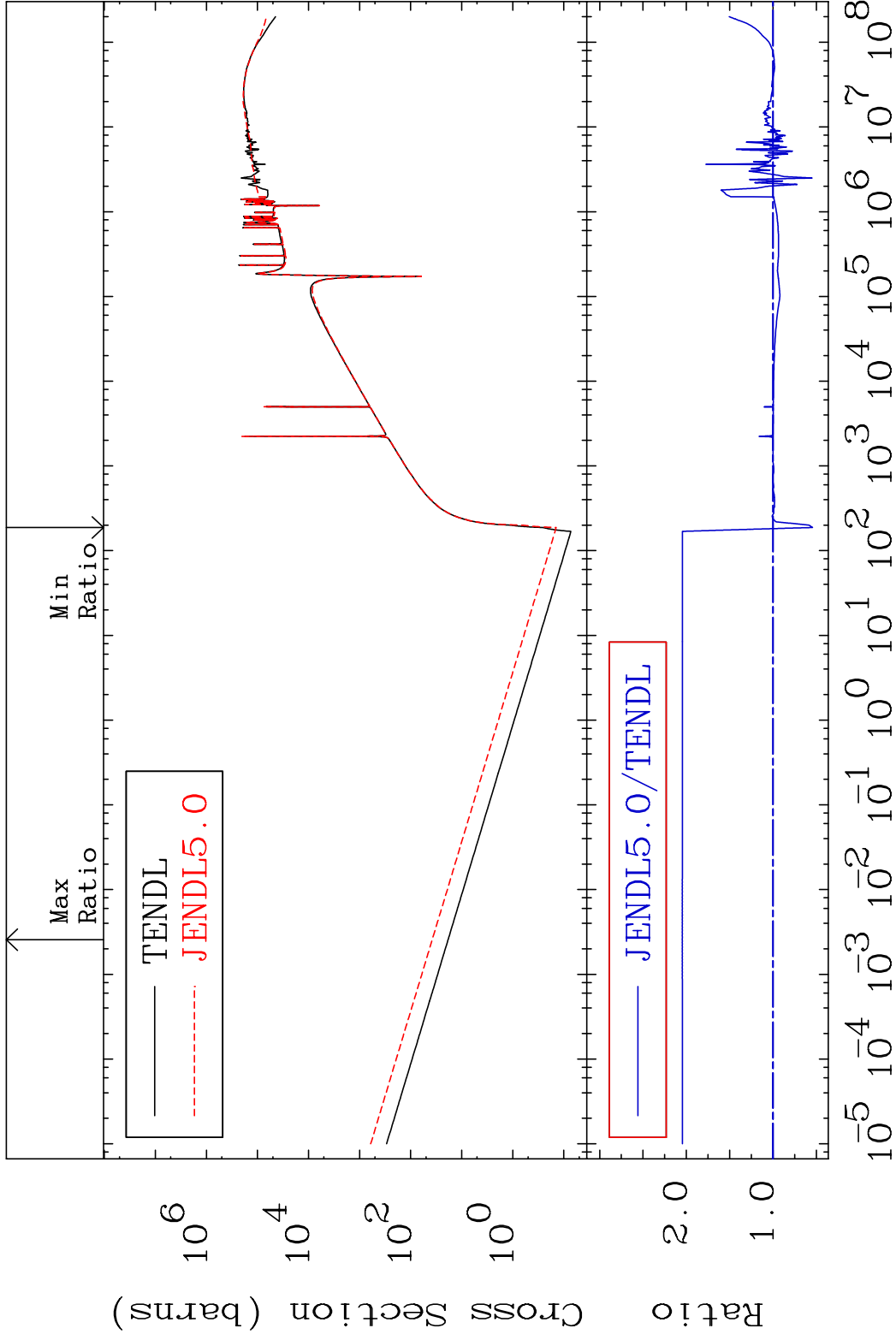


MAT 1431

Dpa total (eV-barns)

14-Si-30

Cross Section -45.59 To 104.8 %

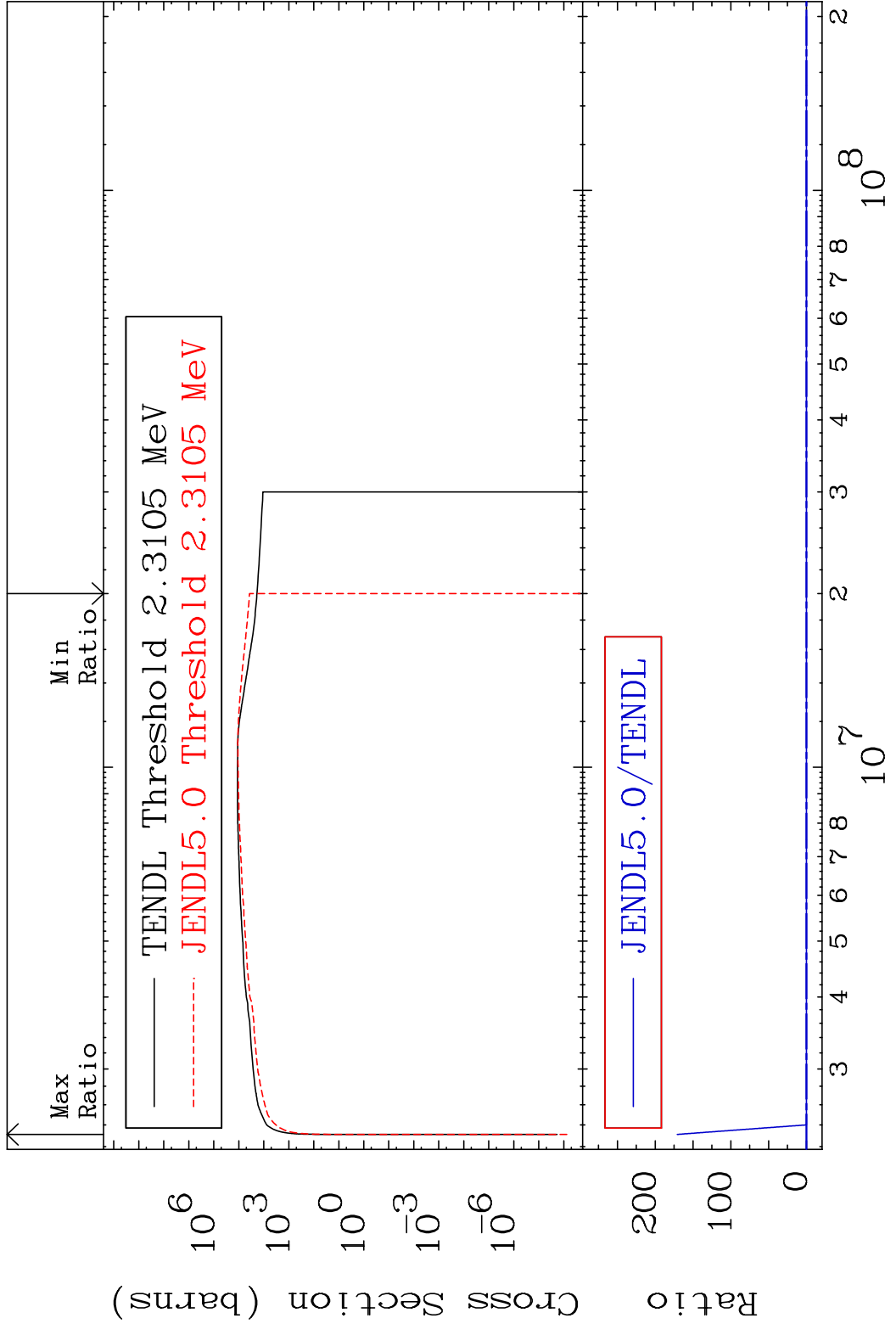


48

Incident Energy (eV)

14-Si-30

MAT 1431 Dpa inelastic (mt51-91) 14-Si-30
 Cross Section -100.0 To 9999. %



50 Incident Energy (eV) 14-Si-30

MAT 1431 Dpa disappearance (mt102 -120) 14-Si-30
 Cross Section -100.0 To 9999. %

