

Program Complot
(Version 2021-1)

by

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Press Mouse Button to Start

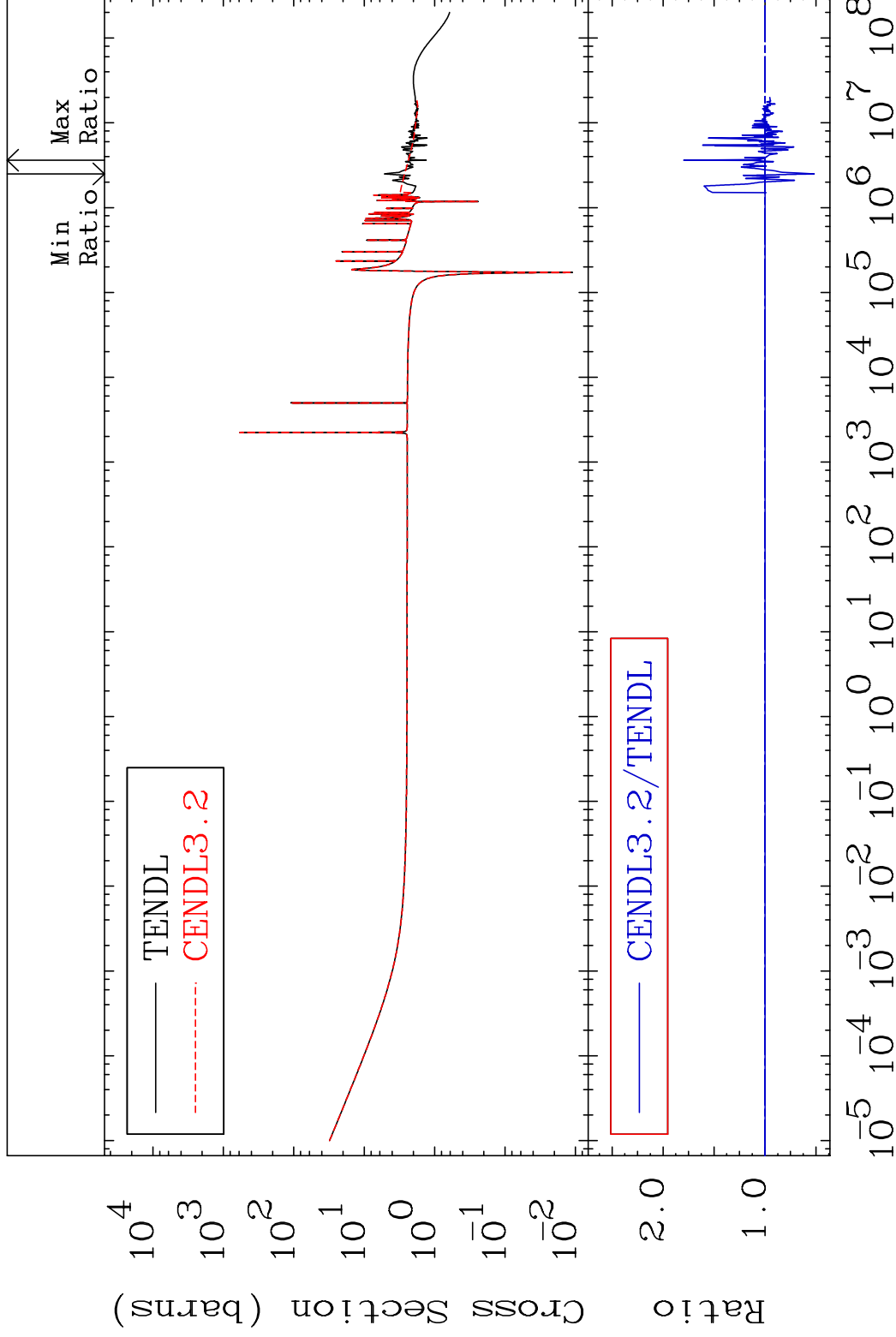
MAT 1431

Total

14-Si-30

Cross Section

-48.20 To 79.79 %



1

Incident Energy (eV)

14-Si-30

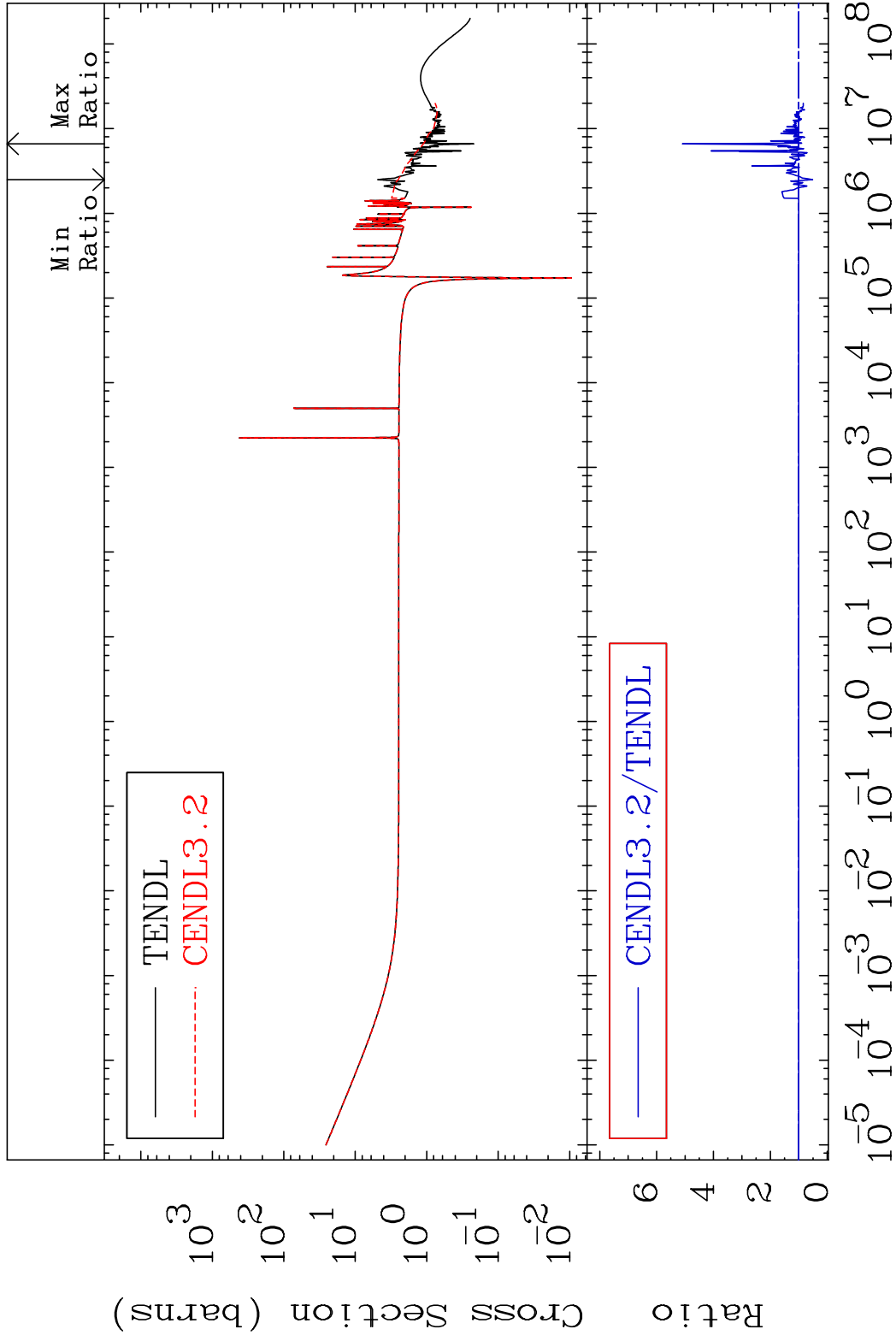
MAT 1431

Elastic

14-Si-30

Cross Section

-48.61 To 409.5 %



2

Incident Energy (eV)

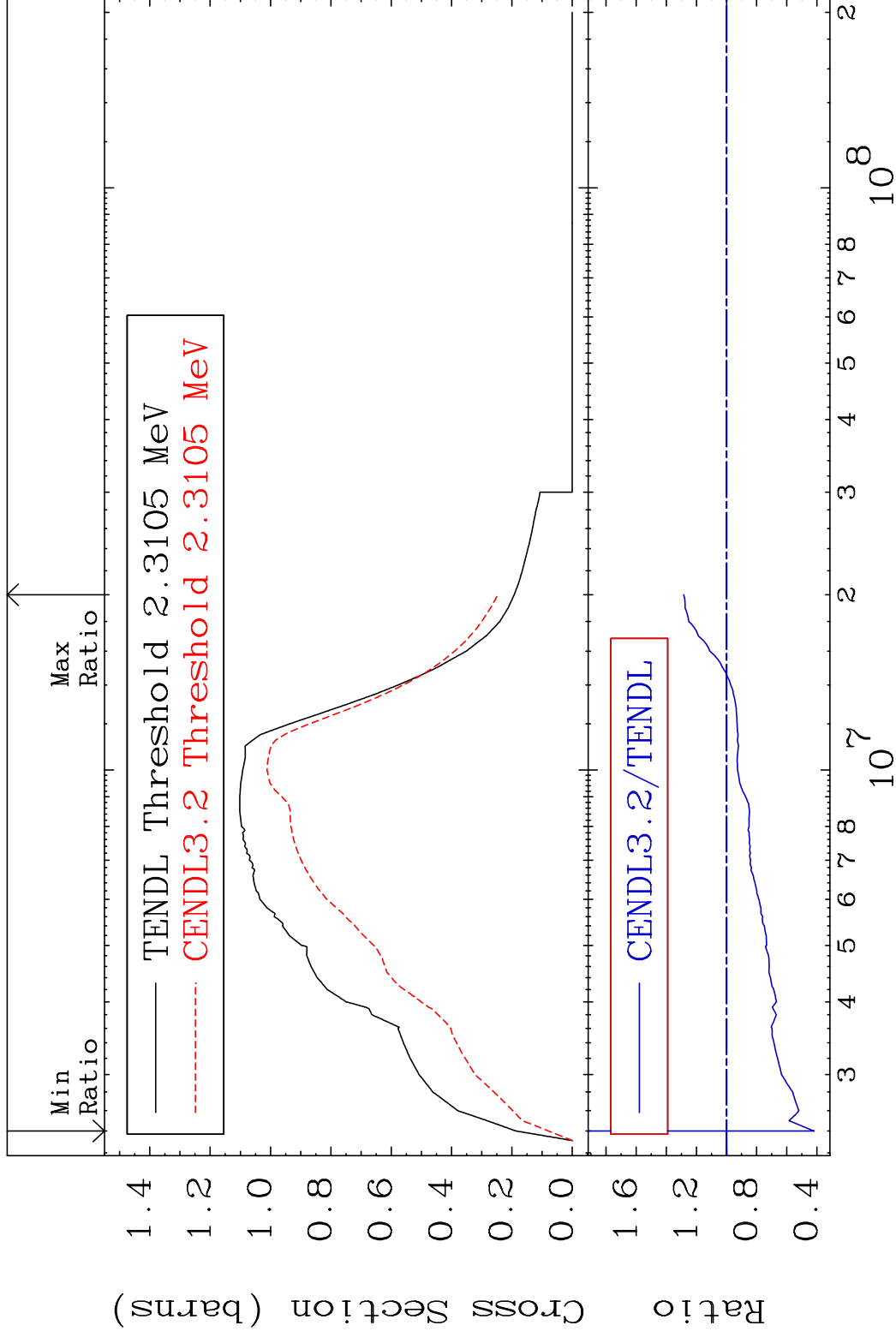
14-Si-30

MAT 1431

Inelastic

¹⁴Si-30

Cross Section -58.12 To 28.46 %



3

Incident Energy (eV)

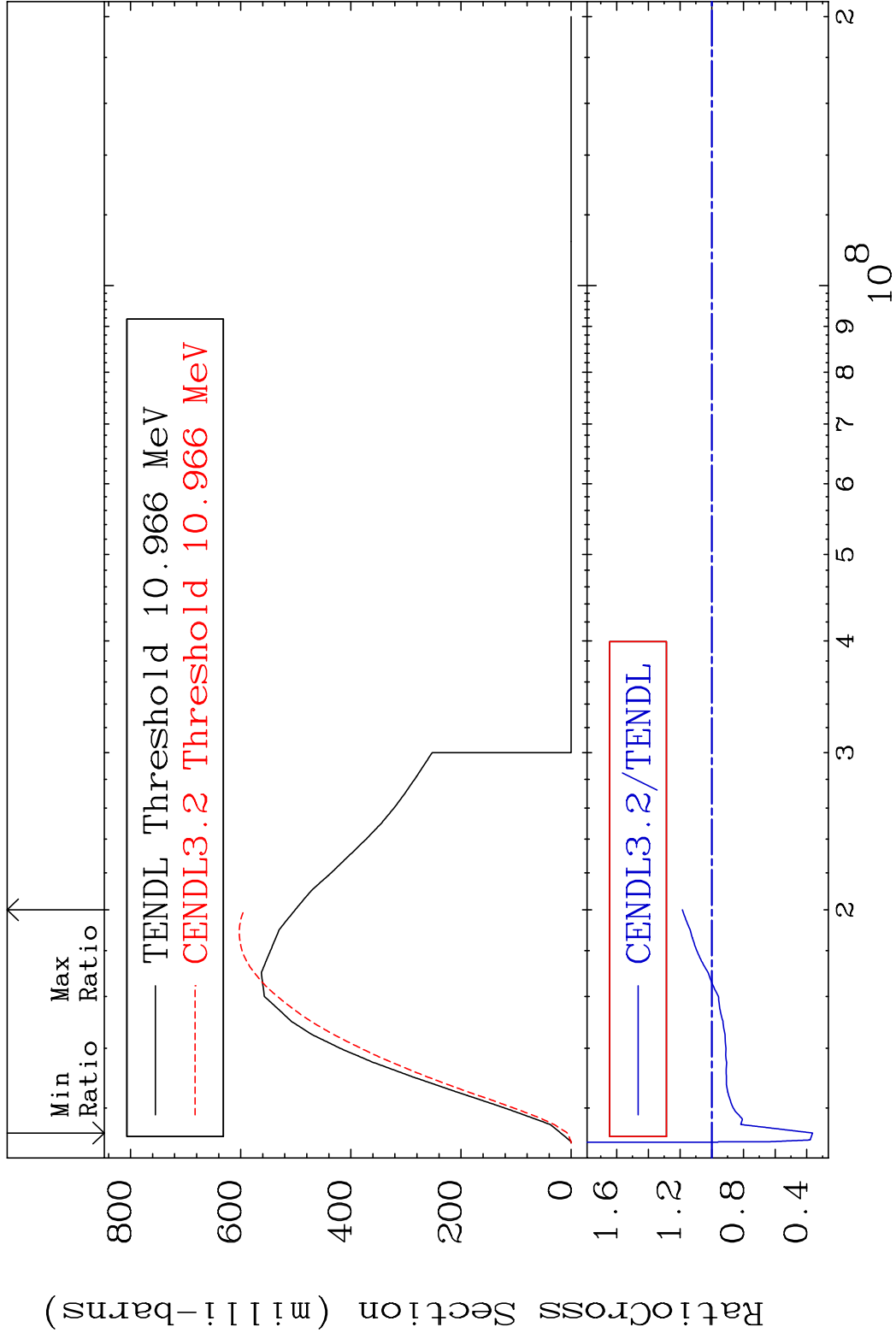
¹⁴Si-30

MAT 1431

(n,2n)

¹⁴Si-30

Cross Section -63.65 To 18.55 %



4

Incident Energy (eV)

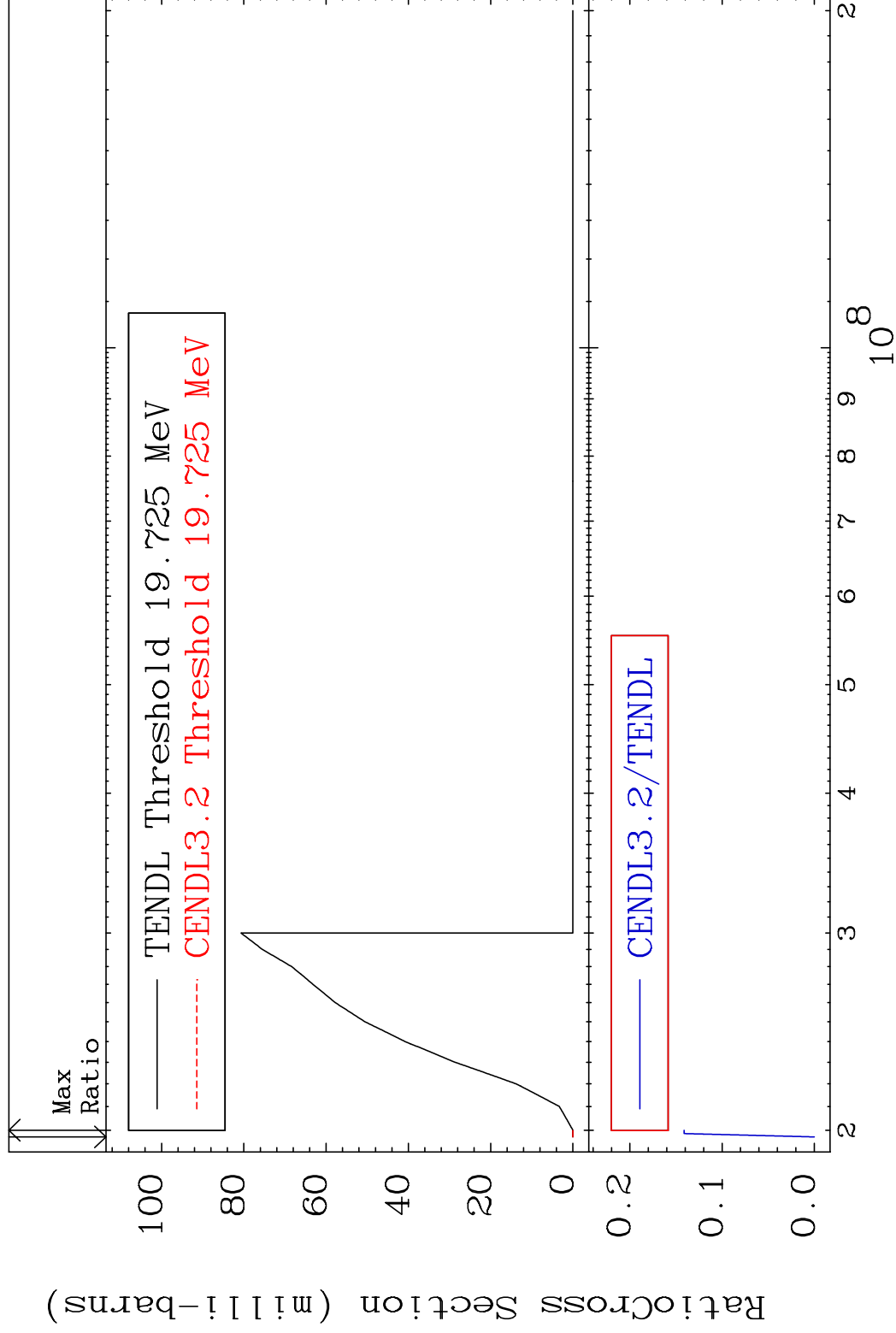
¹⁴Si-30

MAT 1431

(n,3n)

¹⁴Si-30

Cross Section -100.0 To -85.87%



5

Incident Energy (eV)

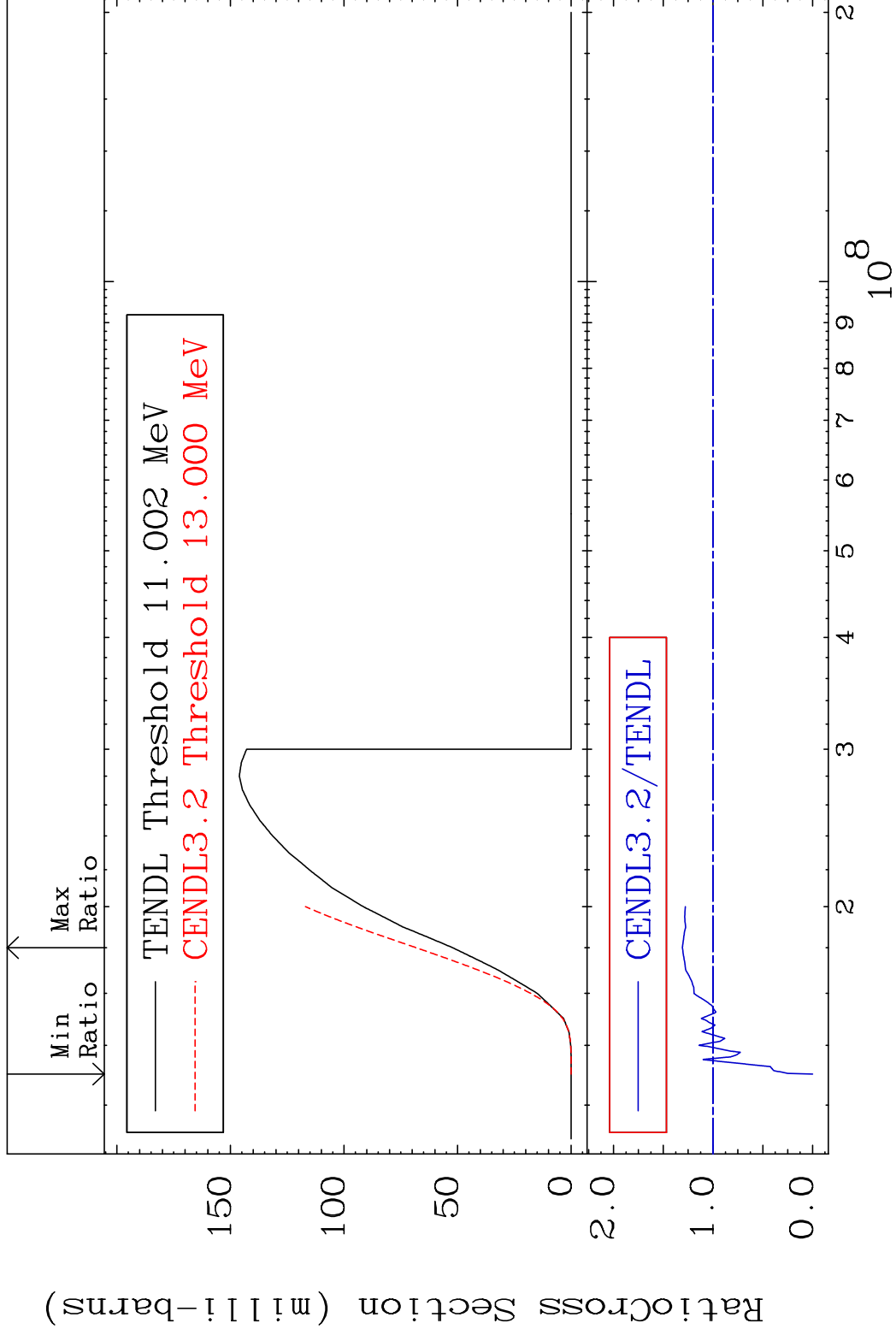
¹⁴Si-30

MAT 1431

(n, n') α

14-Si-30

Cross Section -100.0 To 30.83 %



6

Incident Energy (eV)

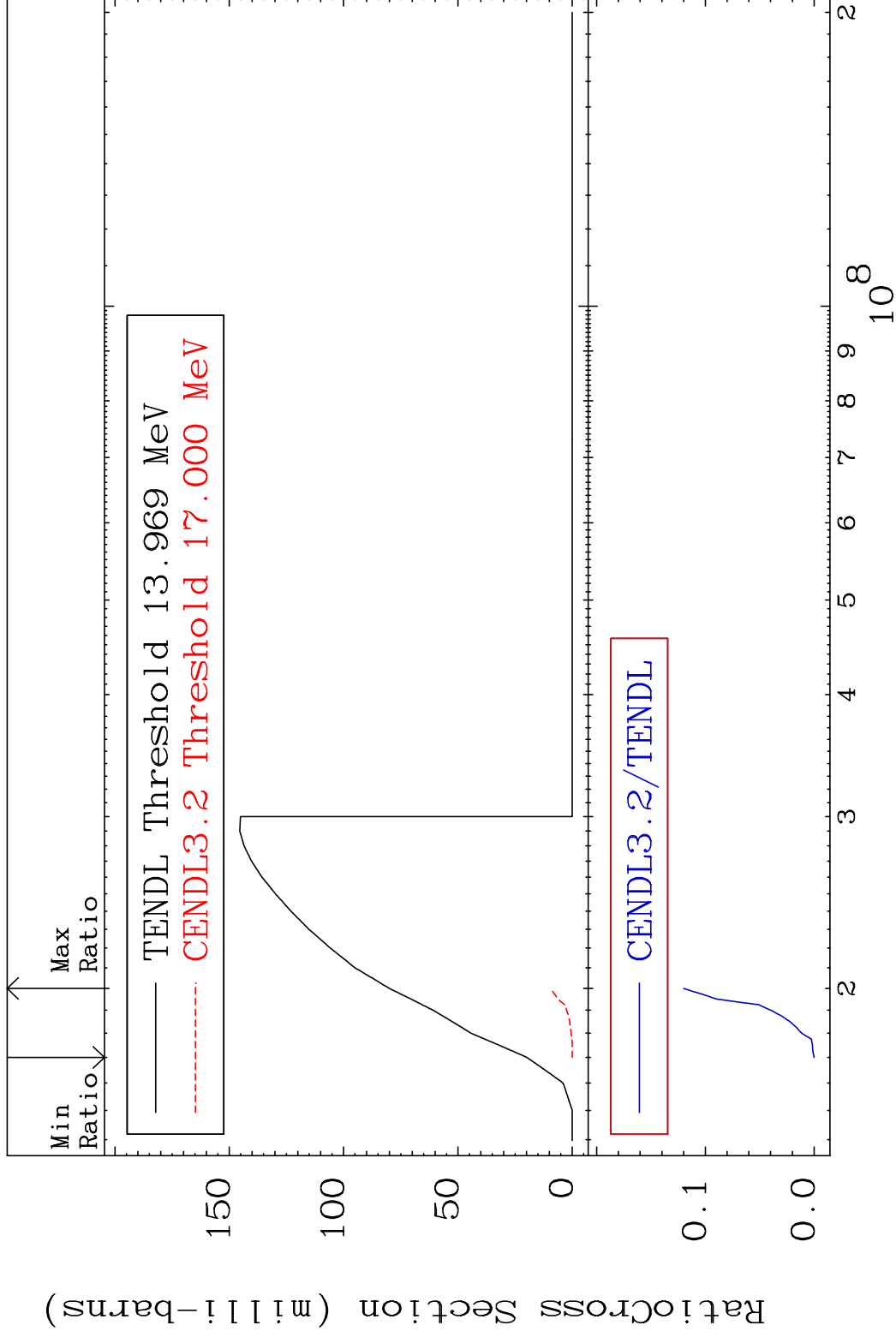
14-Si-30

MAT 1431

(n, n') p

14-Si-30

Cross Section -100.0 To -88.00%

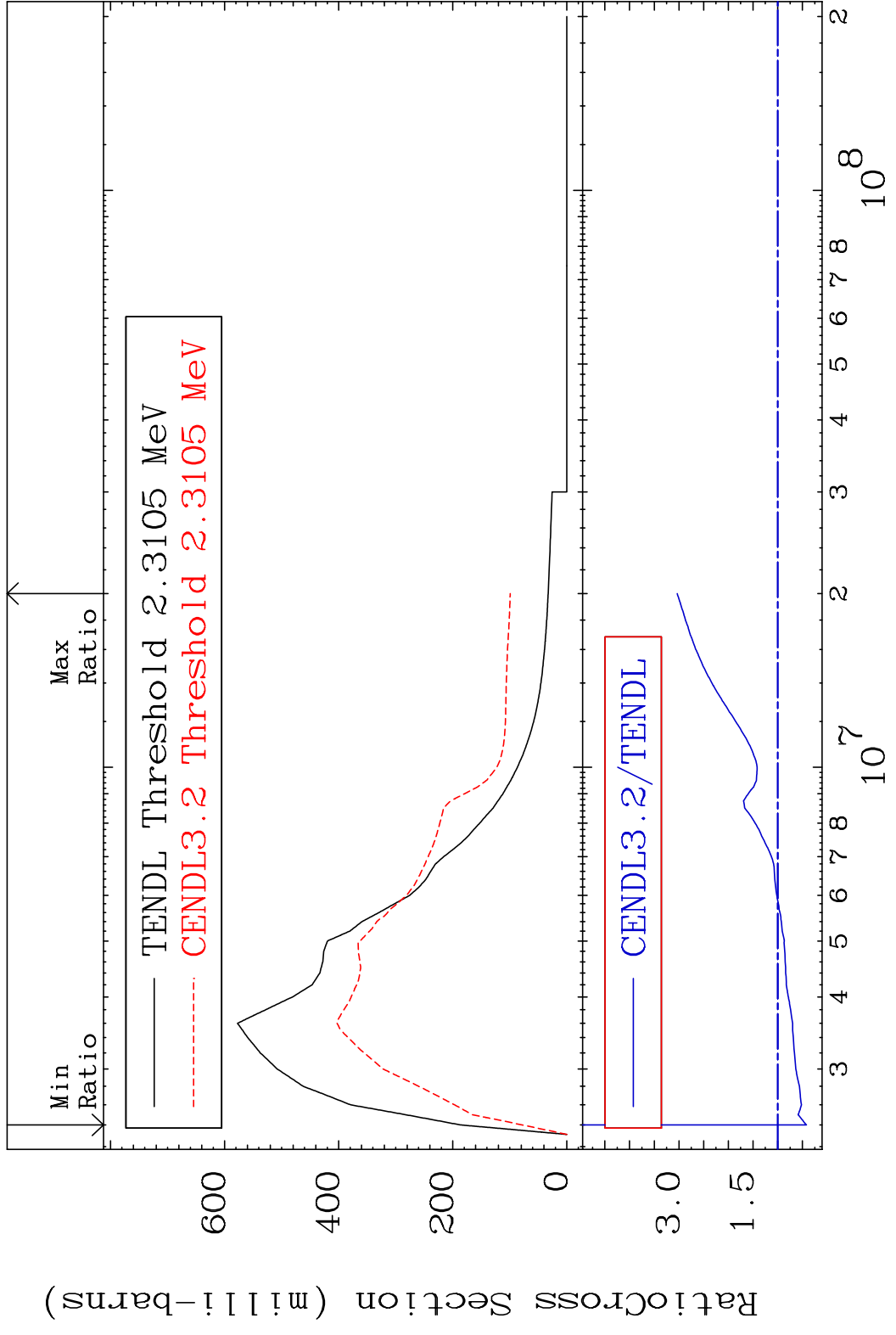


7

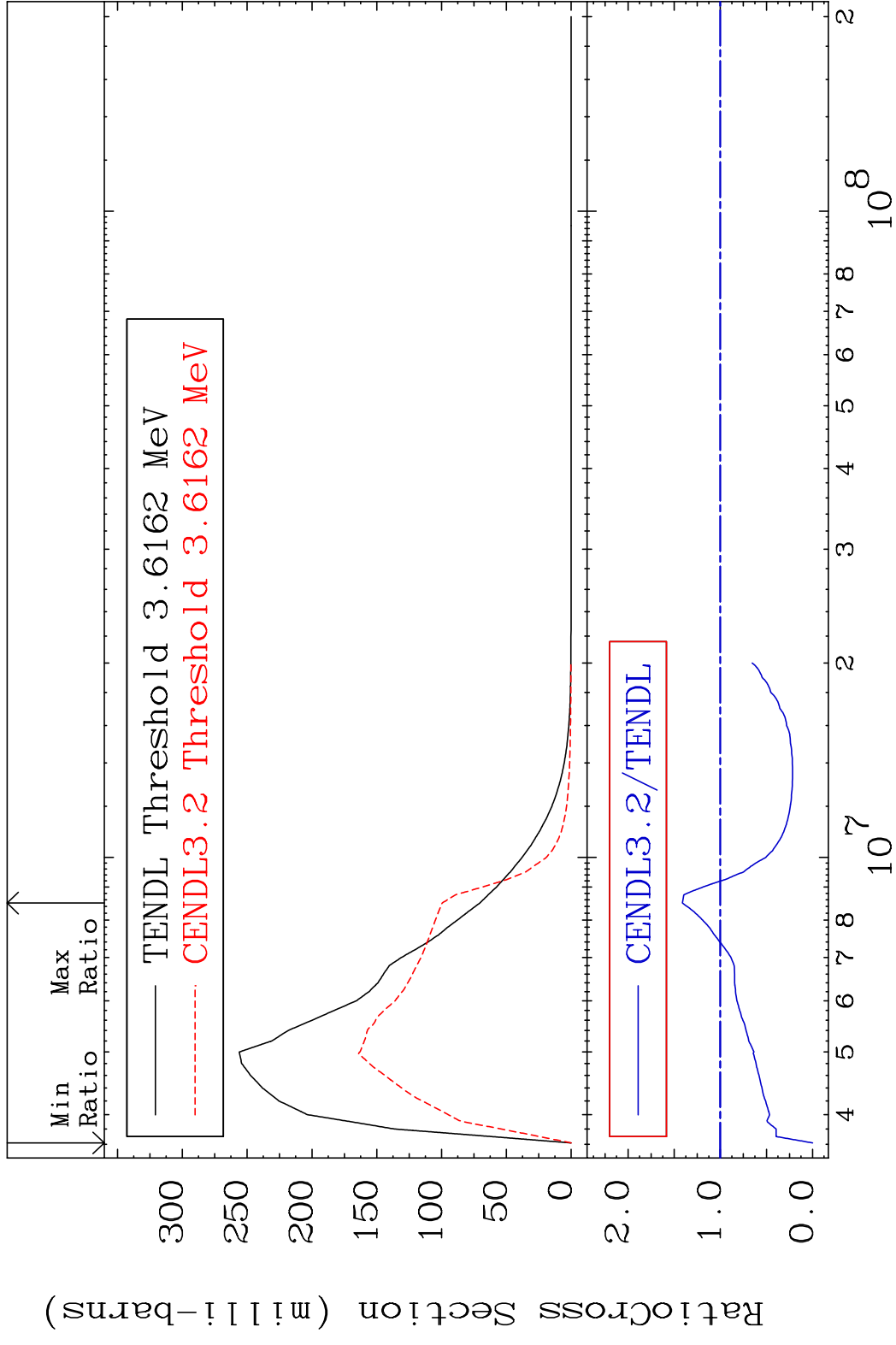
Incident Energy (eV)

14-Si-30

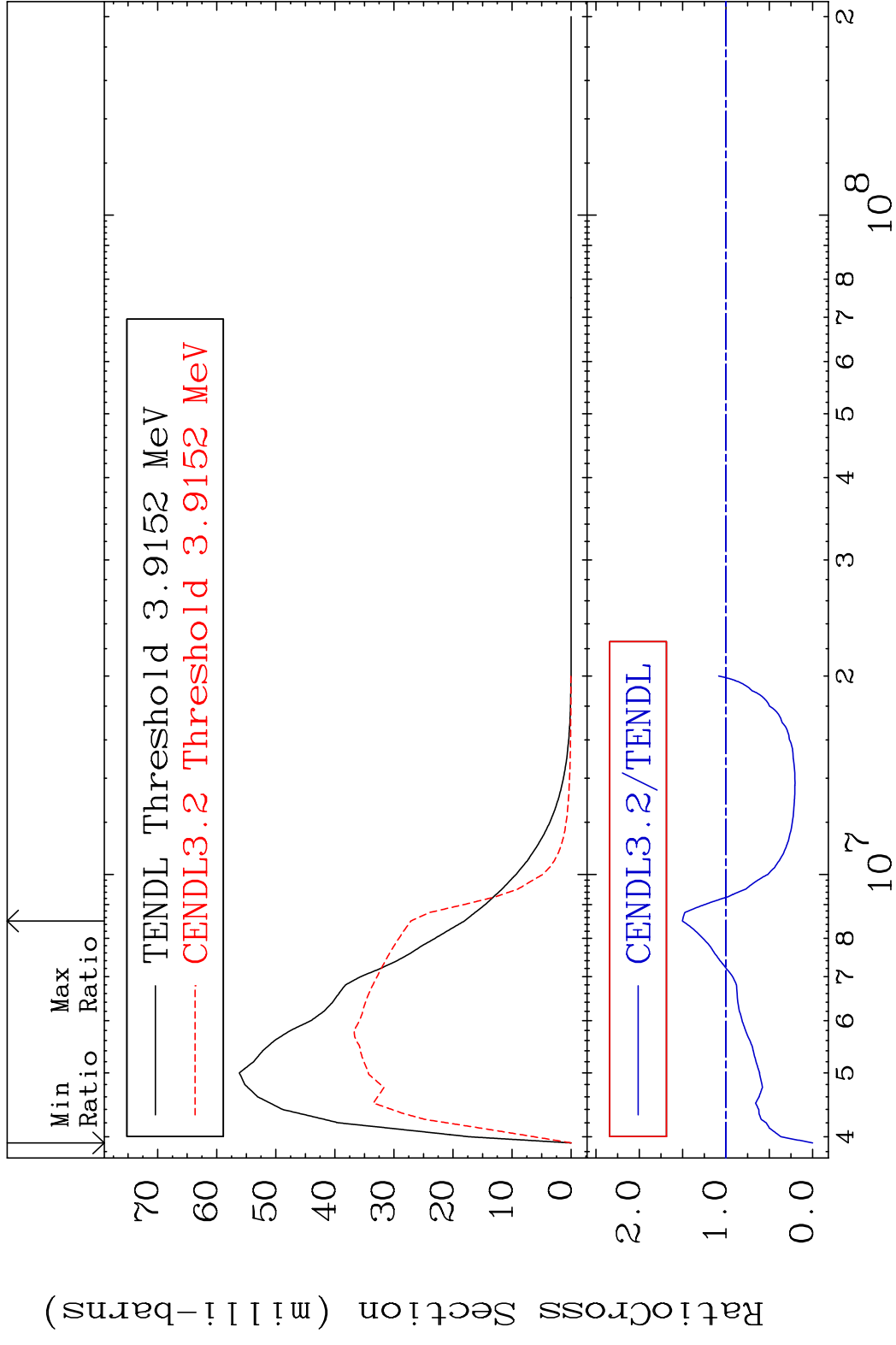
MAT 1431 MT= 51 (n, n') Level 14-Si-30
 Cross Section -58.12 To 203.6 %



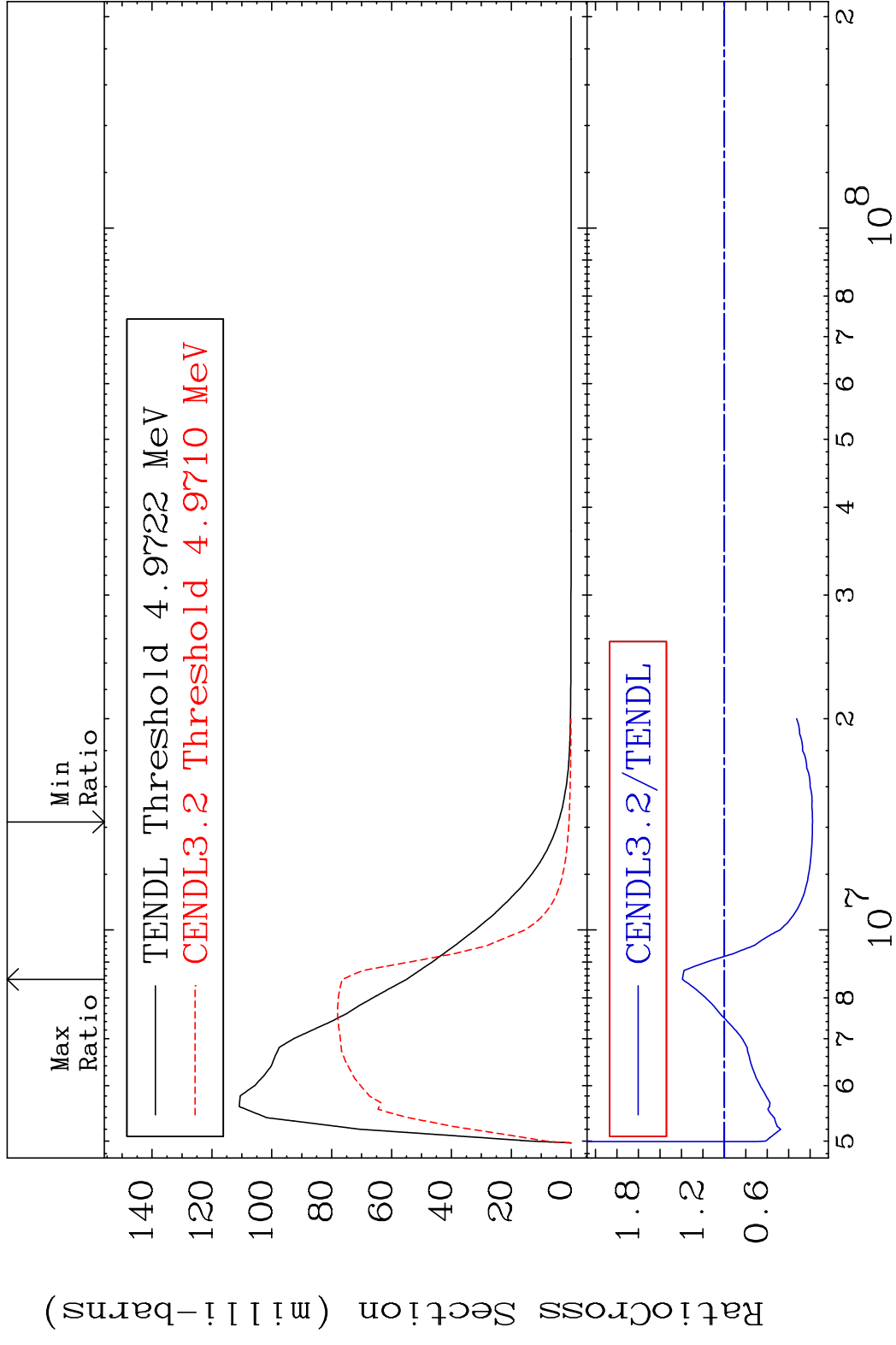
MAT 1431 MT= 52 (n, n') Level 14-Si-30
 Cross Section -100.0 To 41.17 %



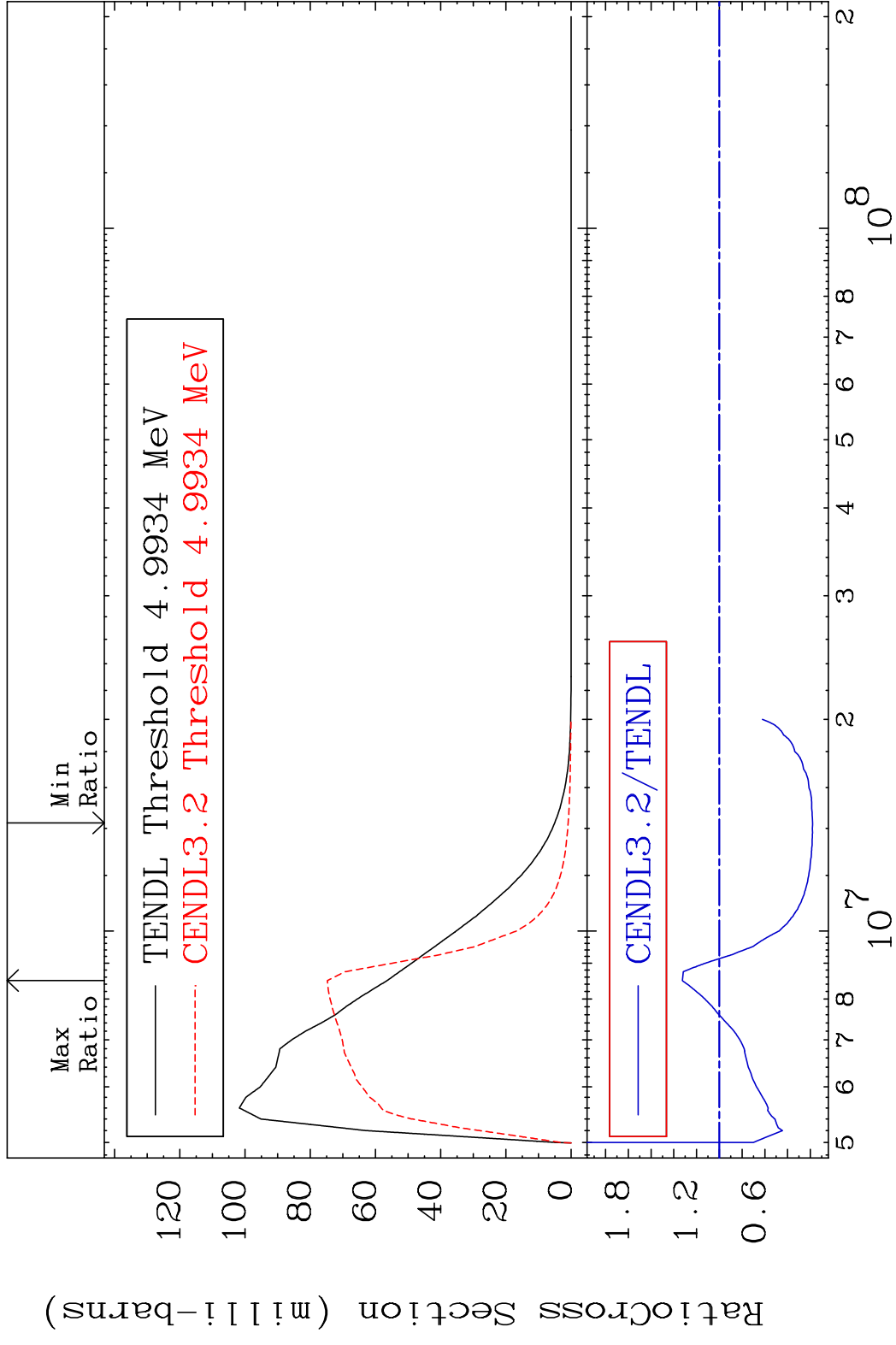
MAT 1431 MT= 54 (n,n') Level 14-Si-30
 Cross Section -100.0 To 50.23 %



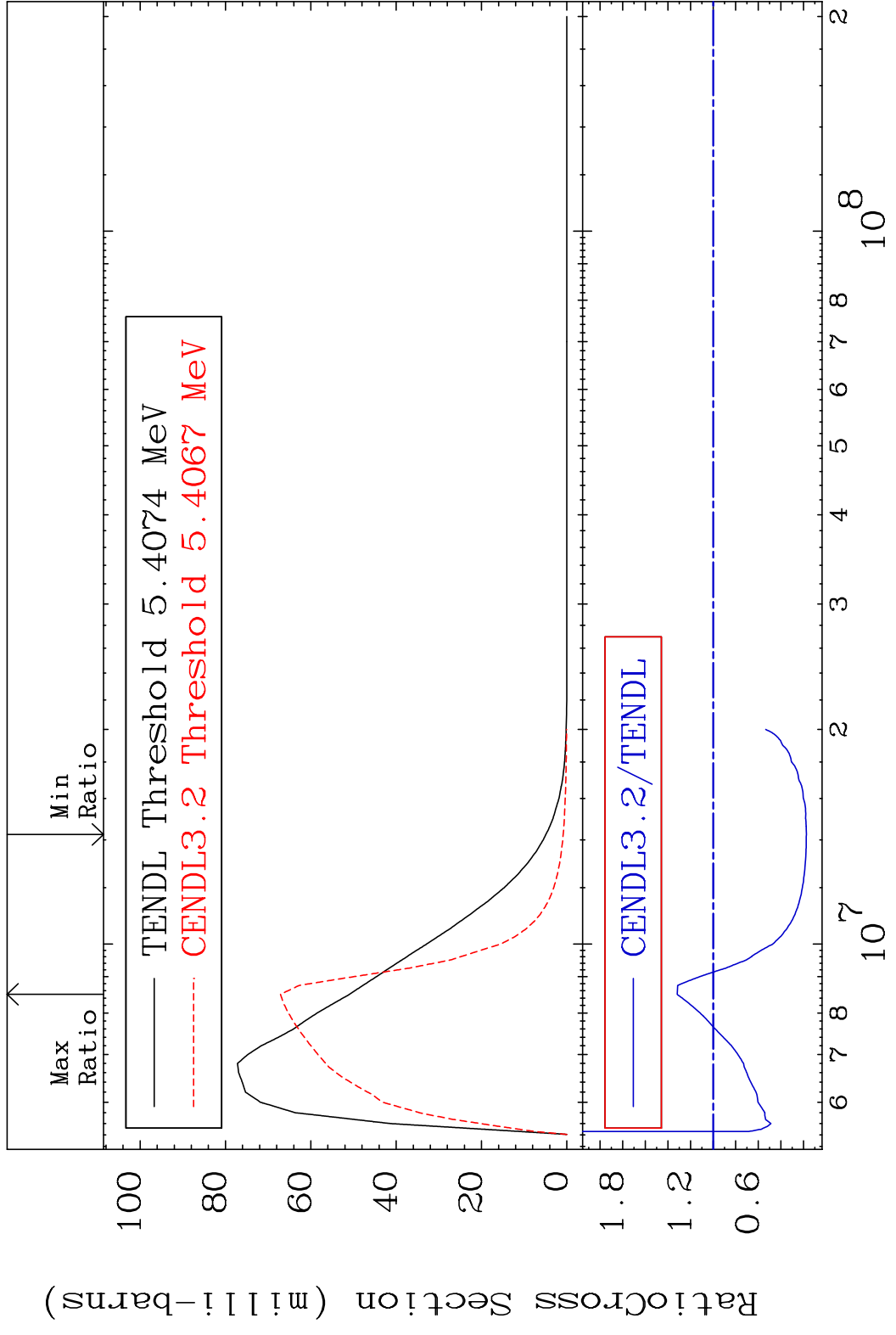
MAT 1431 MT= 55 (n,n') Level 14-Si-30
 Cross Section -82.35 To 39.08 %



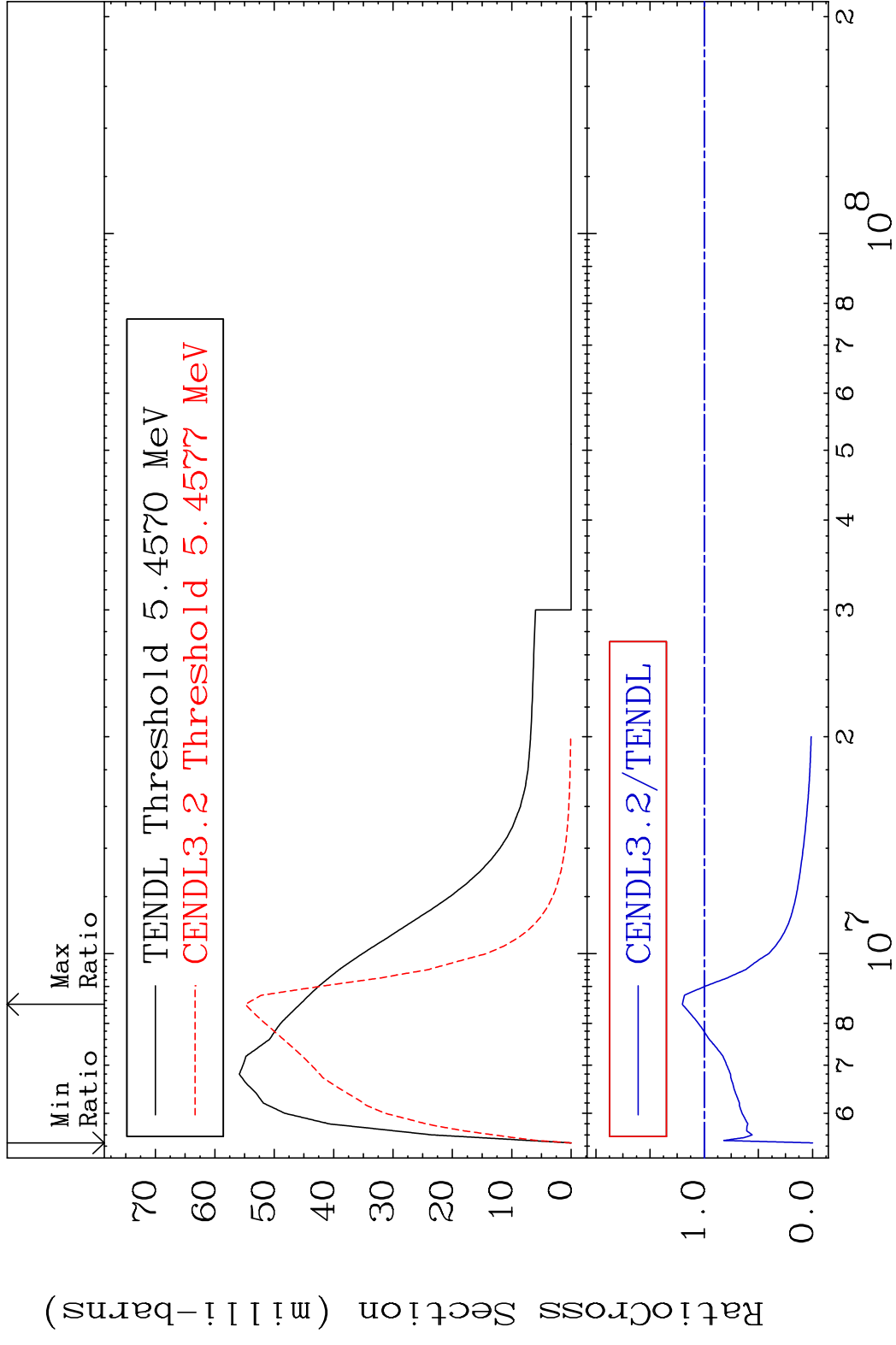
MAT 1431 MT= 56 (n,n') Level 14-Si-30
 Cross Section -81.94 To 32.51 %



MAT 1431 MT= 57 (n,n') Level 14-Si-30
 Cross Section -82.54 To 31.78 %

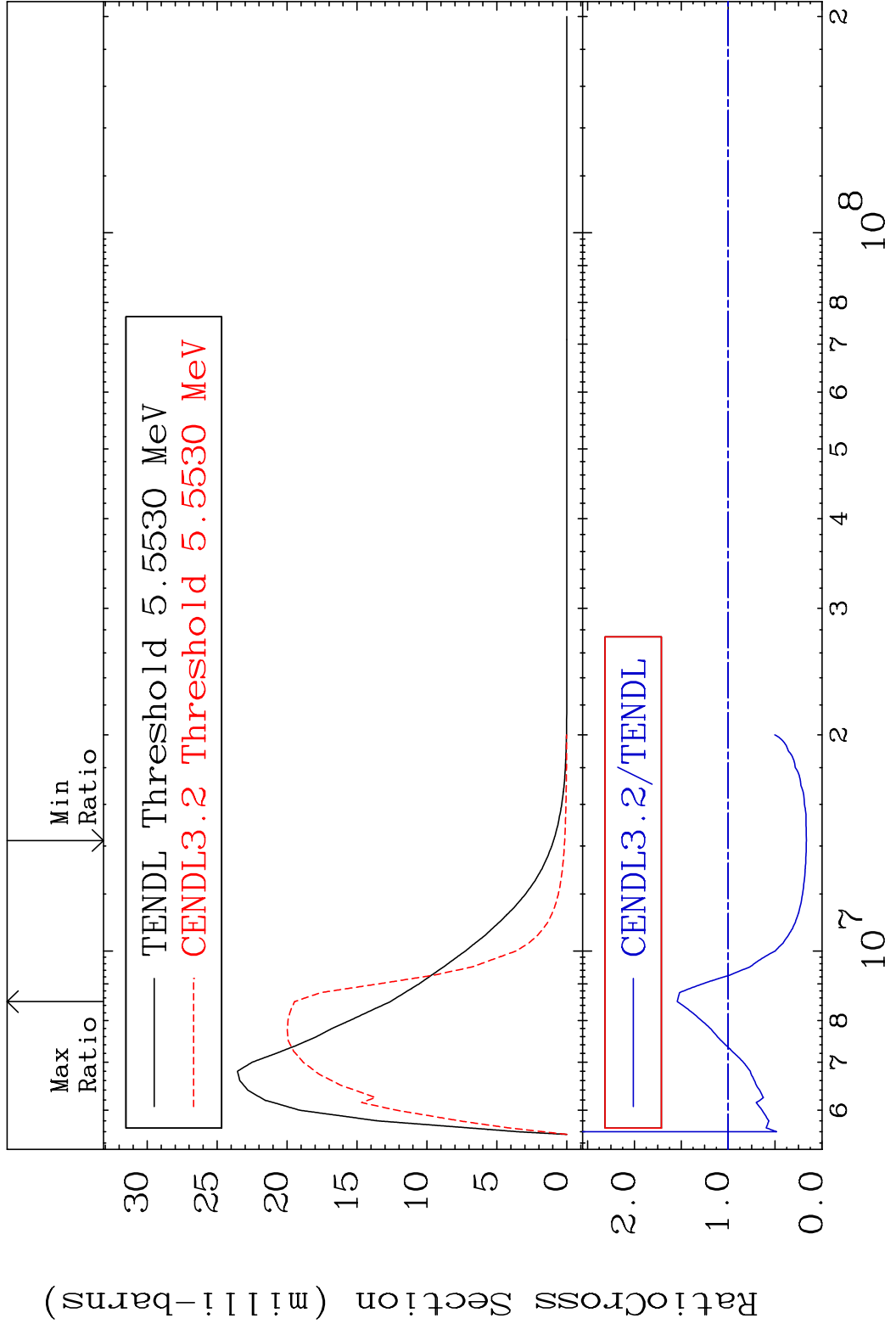


MAT 1431 MT= 58 (n, n') Level 14-Si-30
 Cross Section -100.0 To 20.16 %

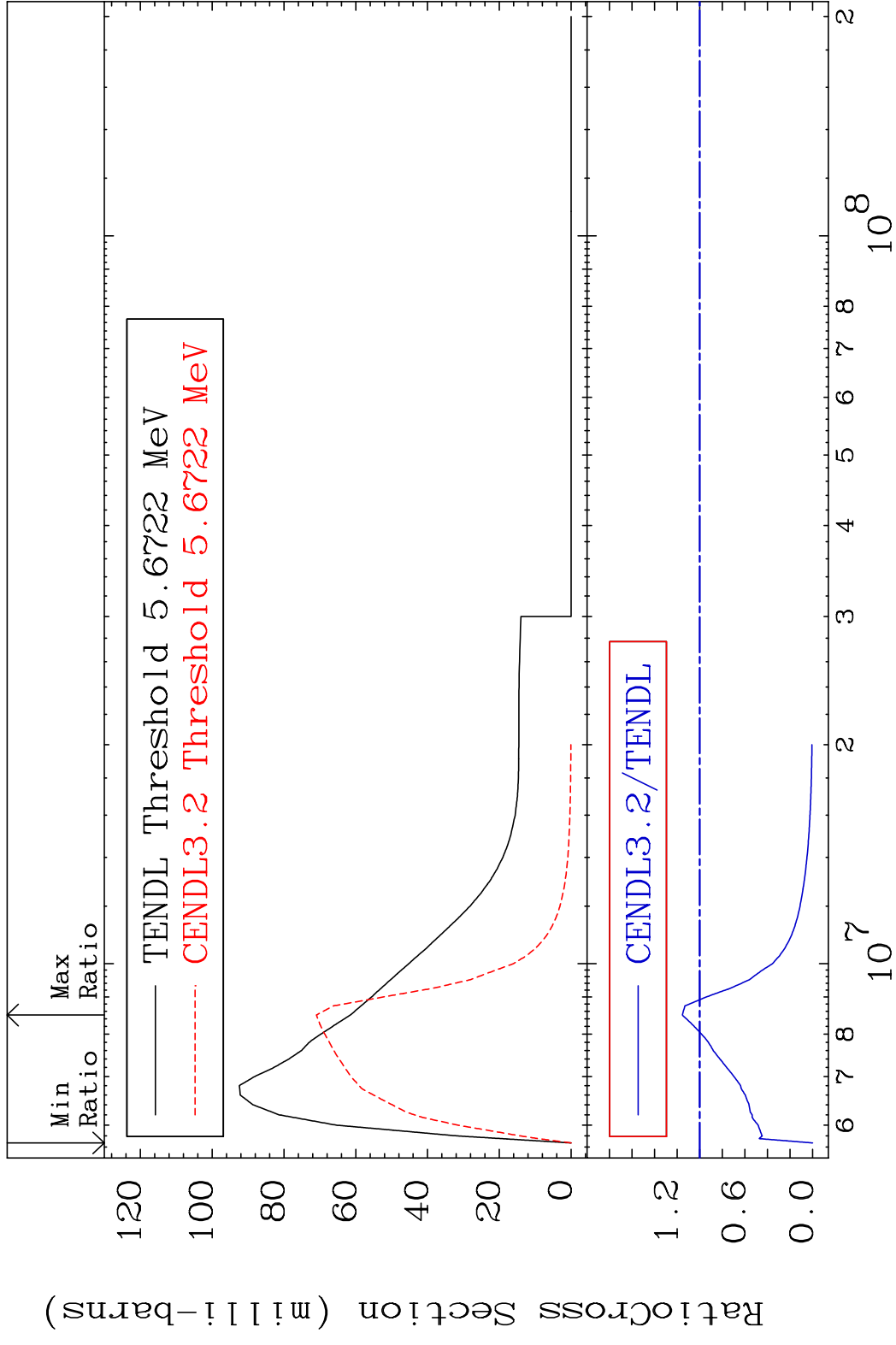


15 14-Si-30

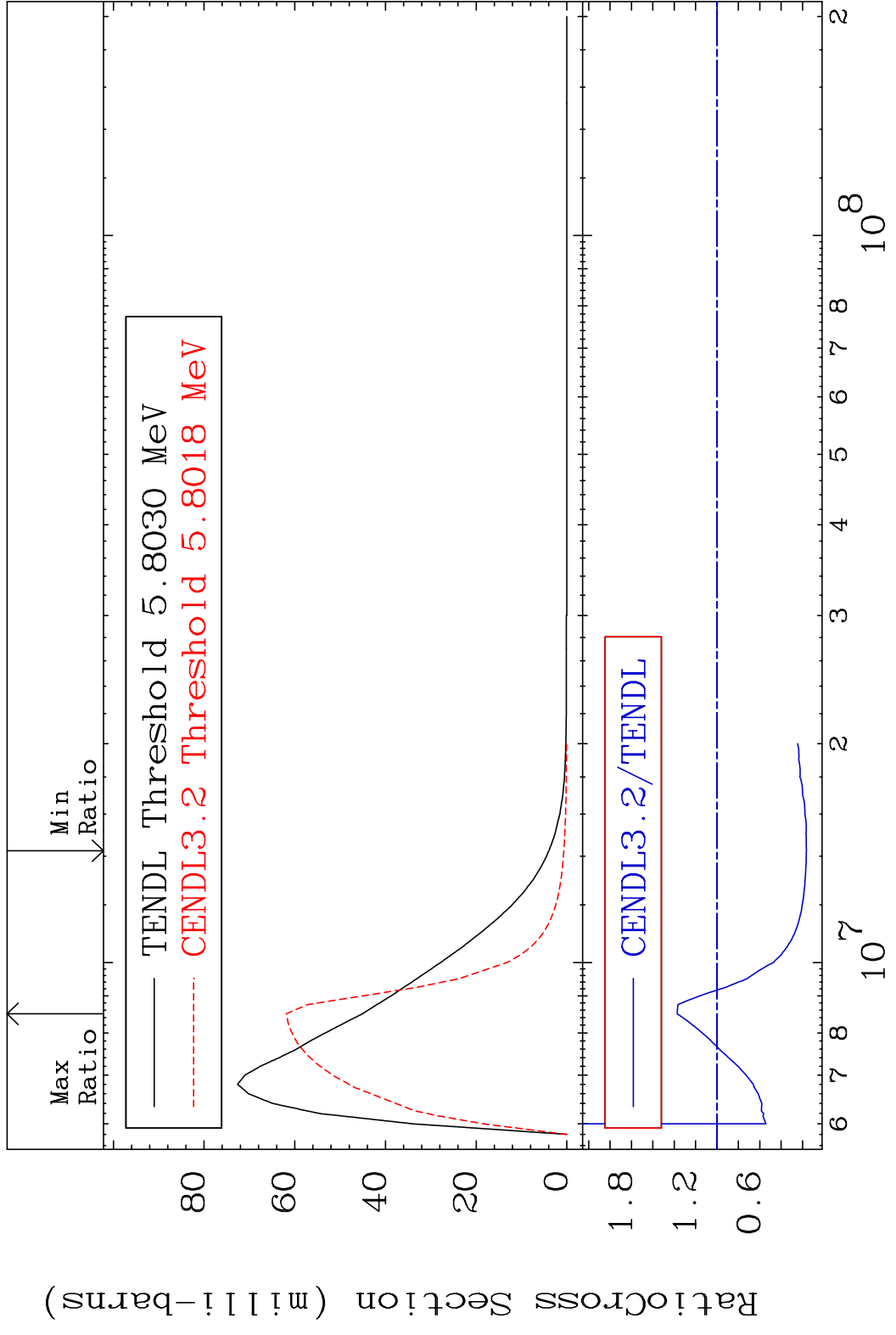
MAT 1431 MT= 59 (n,n') Level 14-Si-30
 Cross Section -83.45 To 54.35 %



MAT 1431 MT= 60 (n,n') Level 14-Si-30
 Cross Section -100.0 To 15.41 %



MAT 1431 MT= 61 (n,n') Level 14-Si-30
 Cross Section -83.54 To 37.23 %

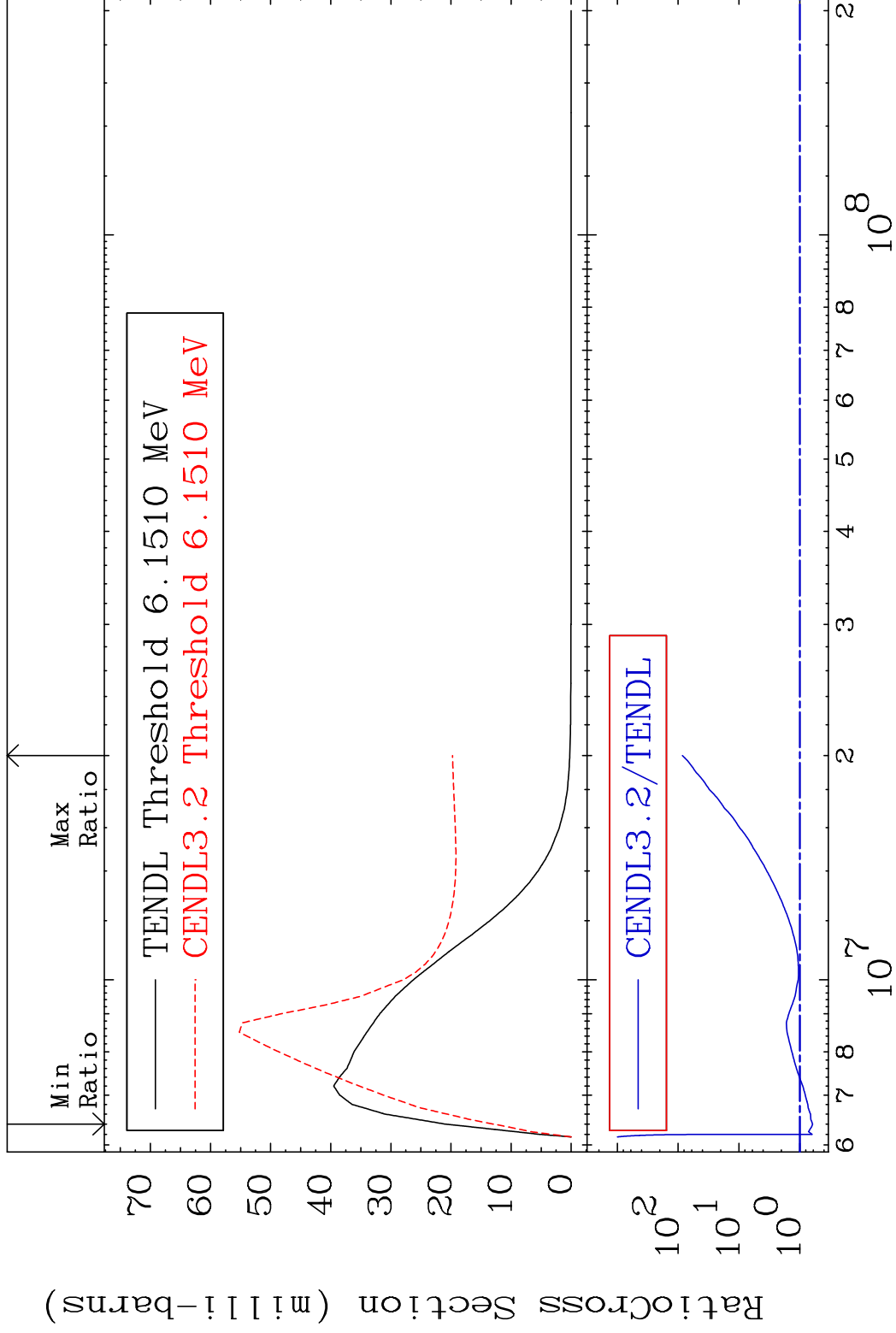


MAT 1431

MT= 62 (n,n') Level

14-Si-30

Cross Section -38.34 To 8428. %



19

Incident Energy (eV)

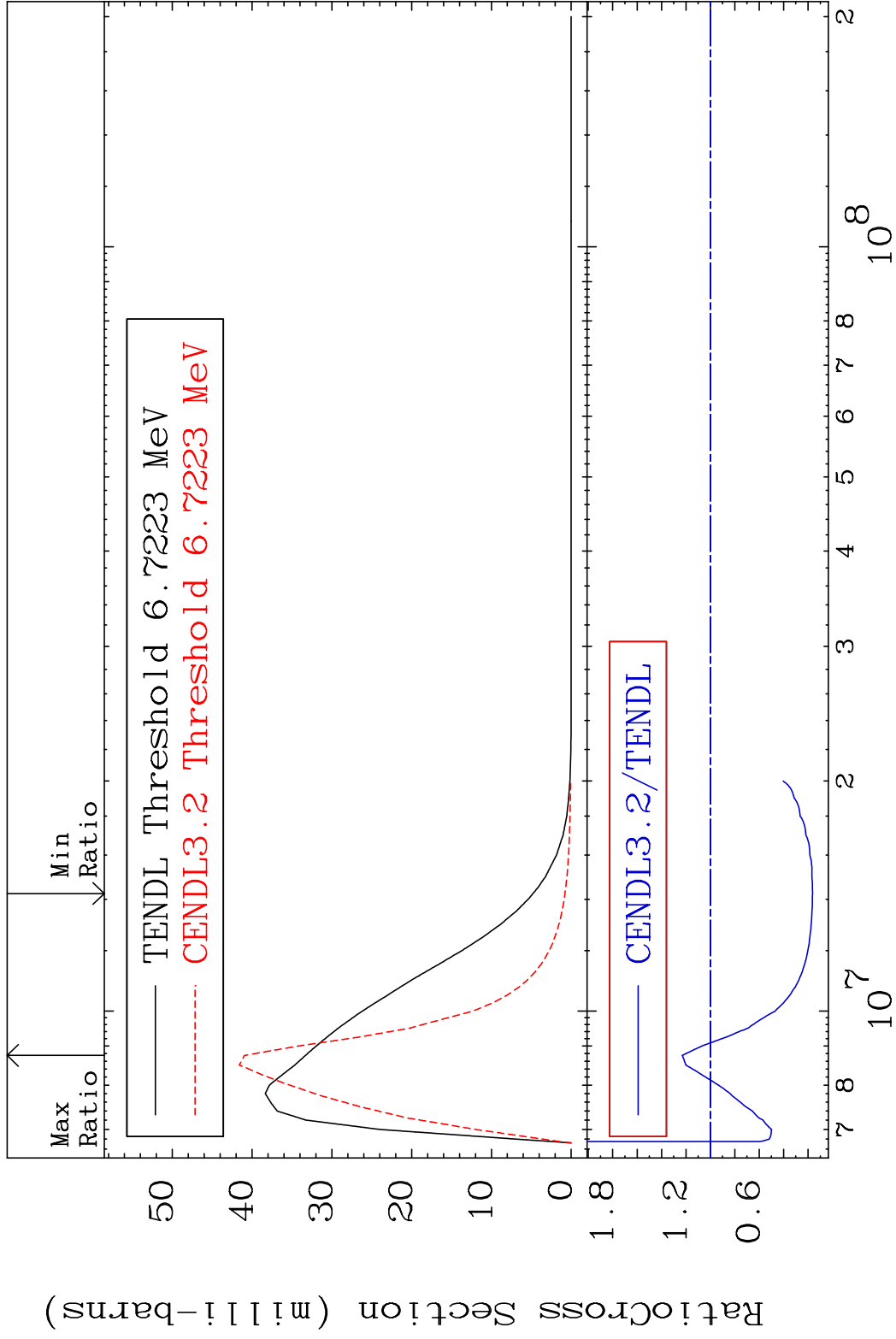
14-Si-30

MAT 1431

MT= 63 (n,n') Level

14-Si-30

Cross Section -83.70 To 22.95 %



20

Incident Energy (eV)

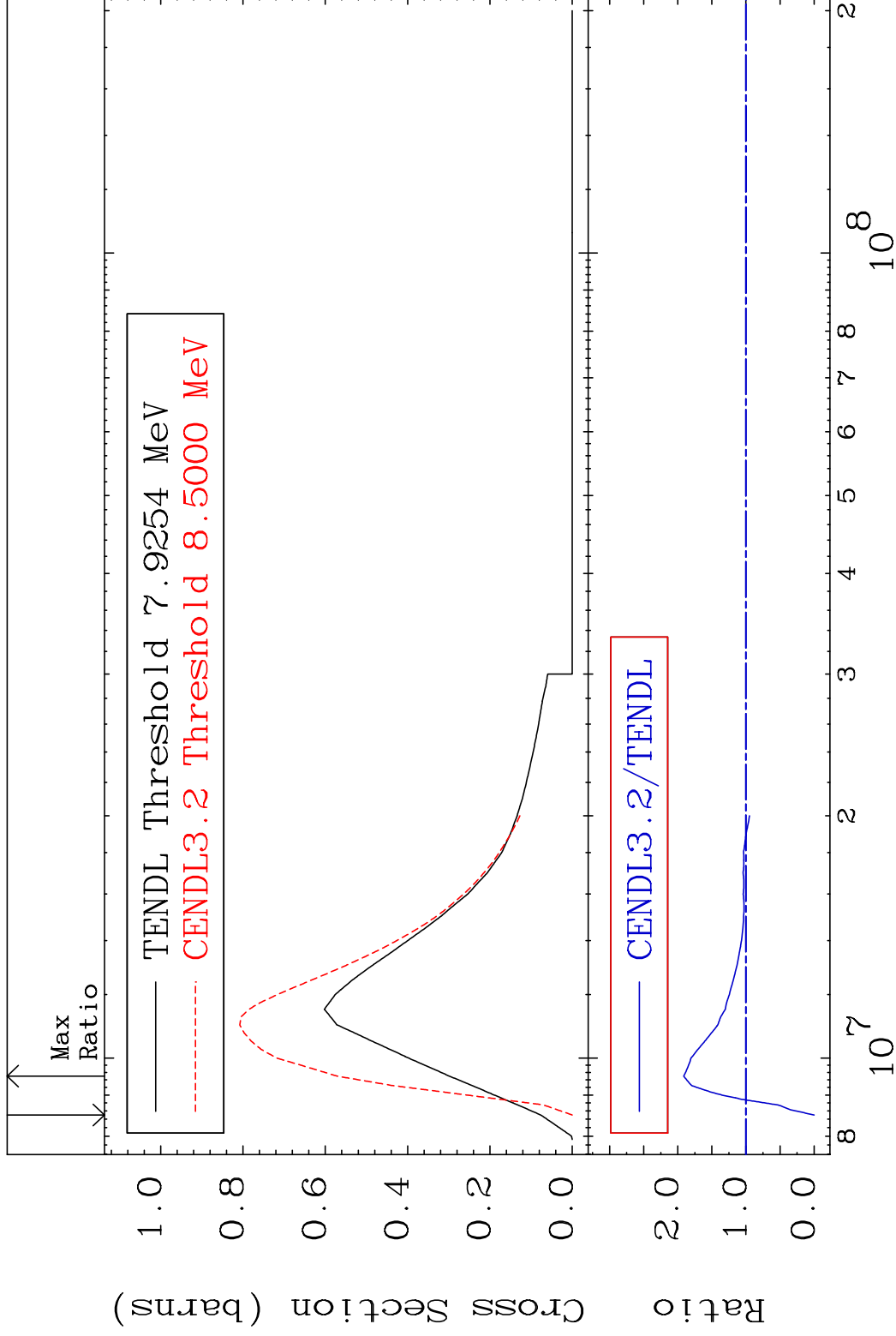
14-Si-30

MAT 1431

(n,n') Continuum

14-Si-30

Cross Section -100.0 To 91.38 %



21

Incident Energy (eV)

14-Si-30

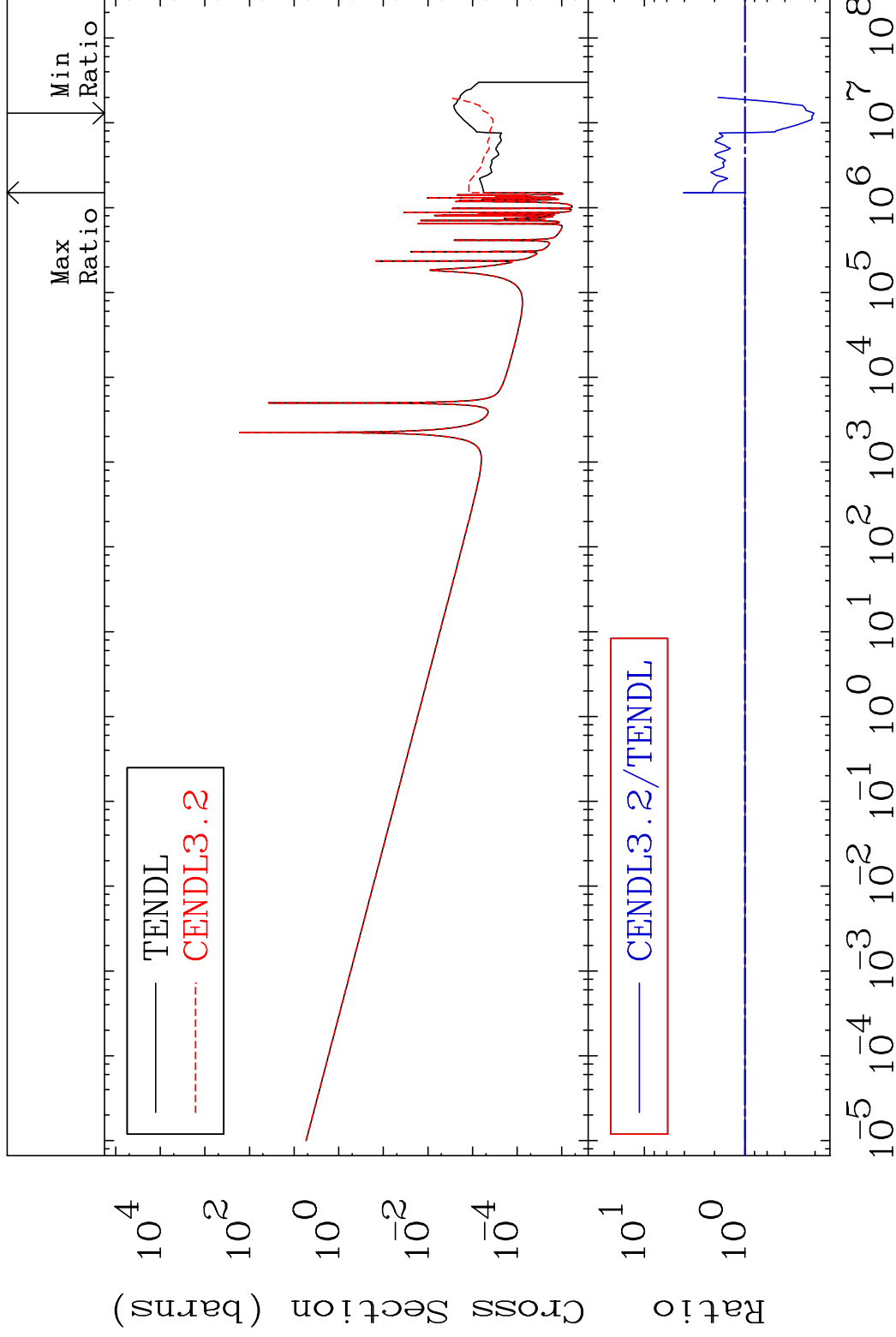
MAT 1431

(n, γ)

14-Si-30

Cross Section

-79.55 To 306.7 %



22

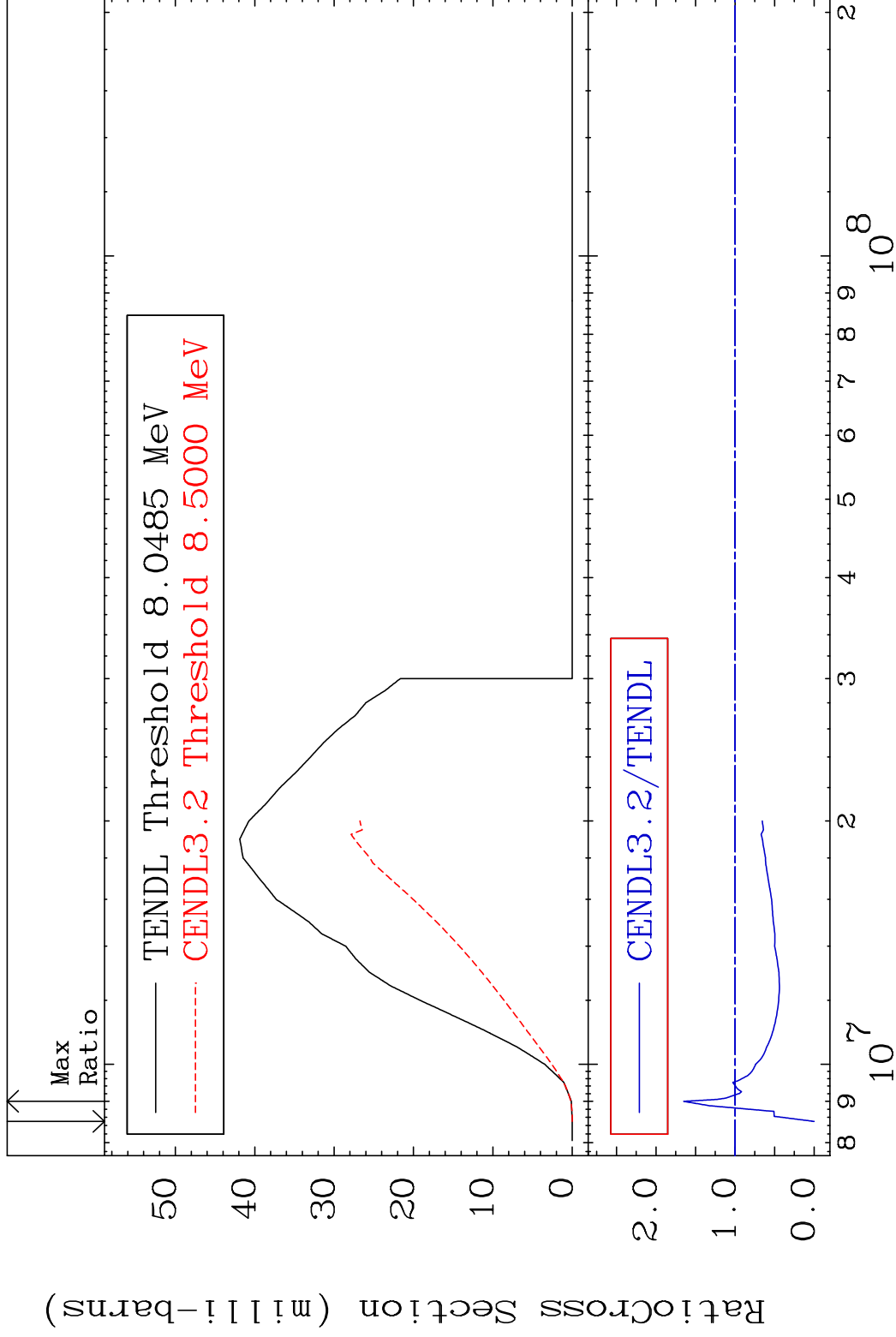
14-Si-30

MAT 1431

(n,p)

14-Si-30

Cross Section -100.0 To 65.00 %



23

Incident Energy (eV)

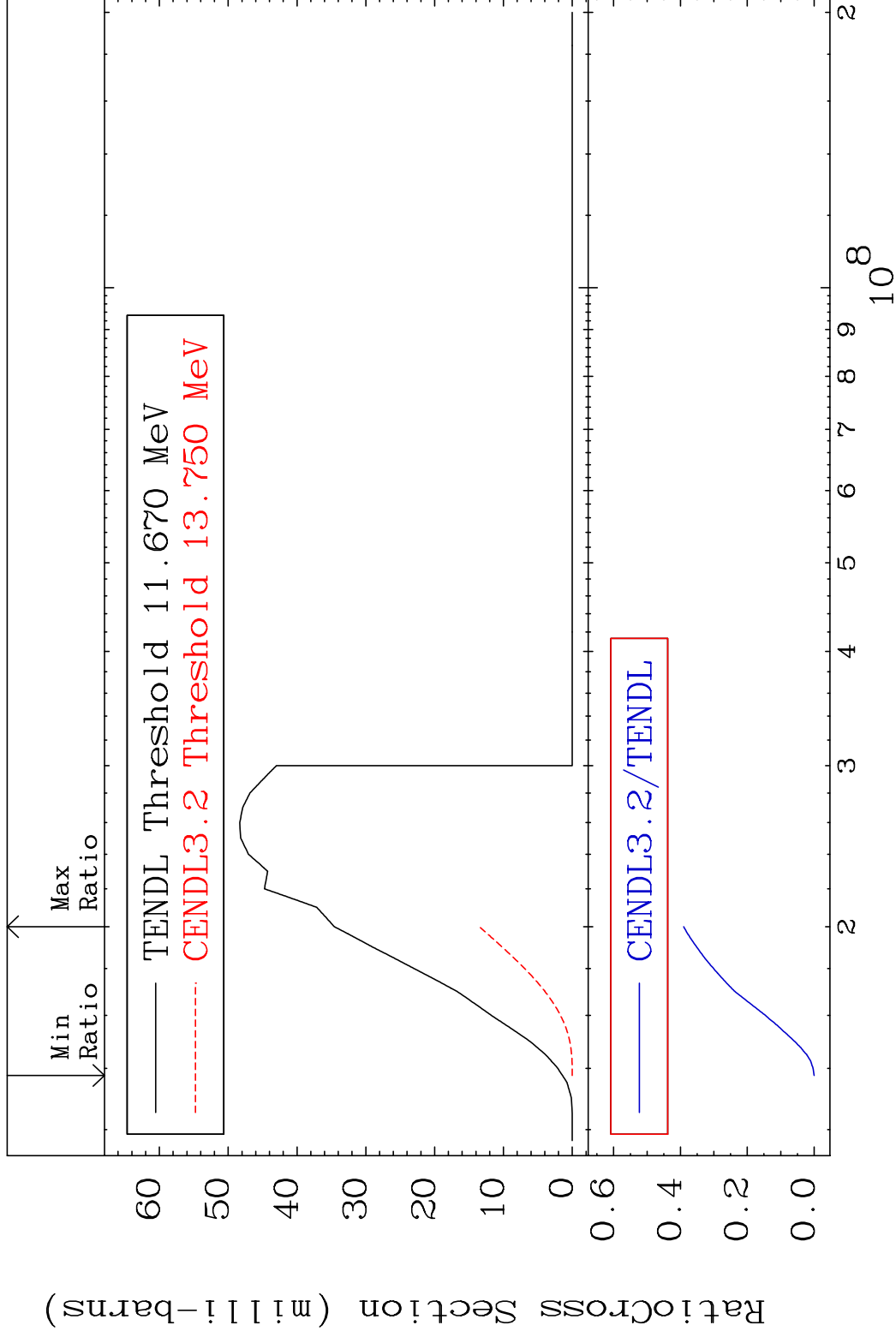
14-Si-30

MAT 1431

(n,d)

14-Si-30

Cross Section -100.0 To -60.96%

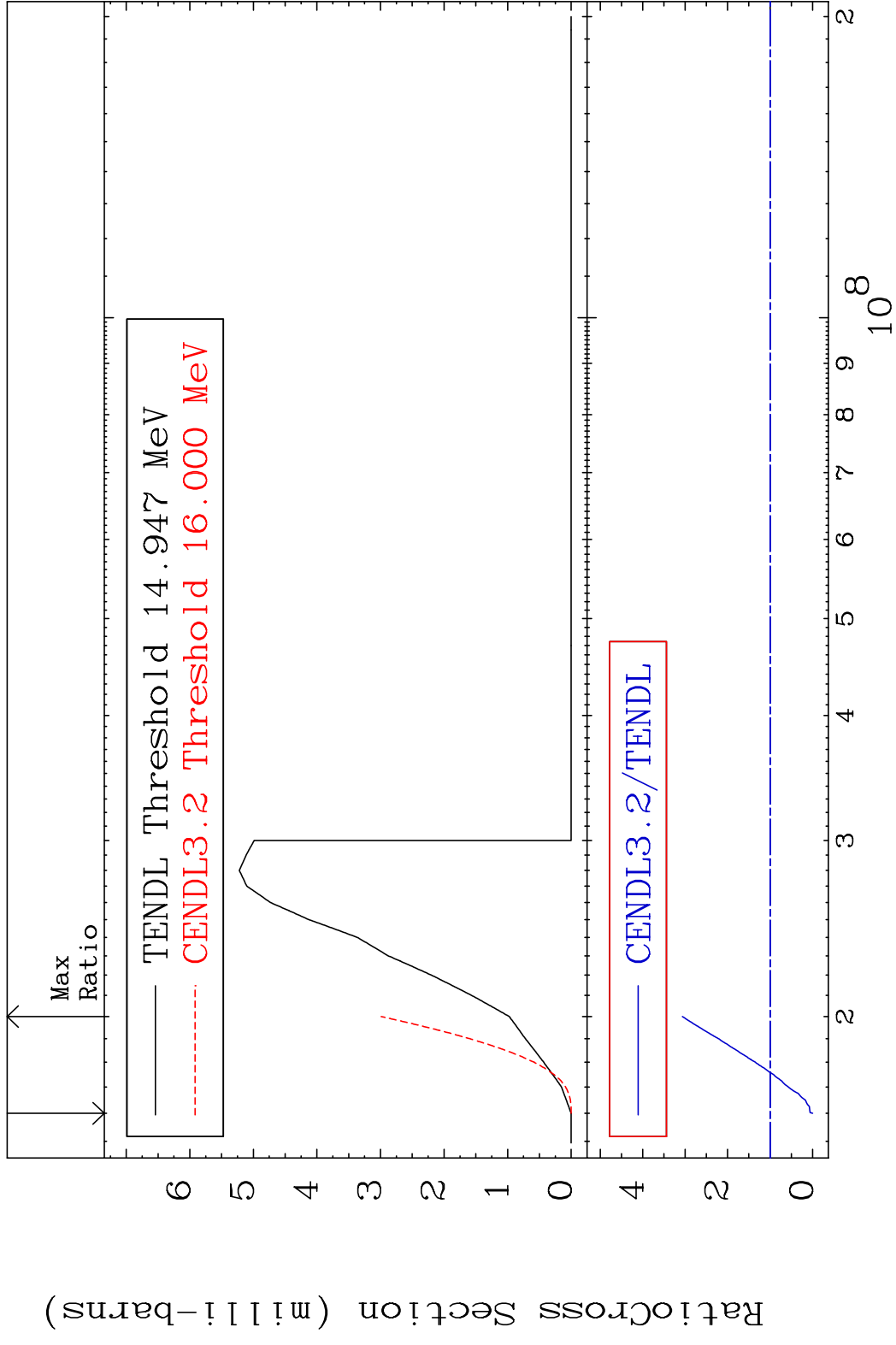


24

Incident Energy (eV)

14-Si-30

MAT 1431 (n, t) 14-Si-30
 Cross Section -100.0 To 206.6 %

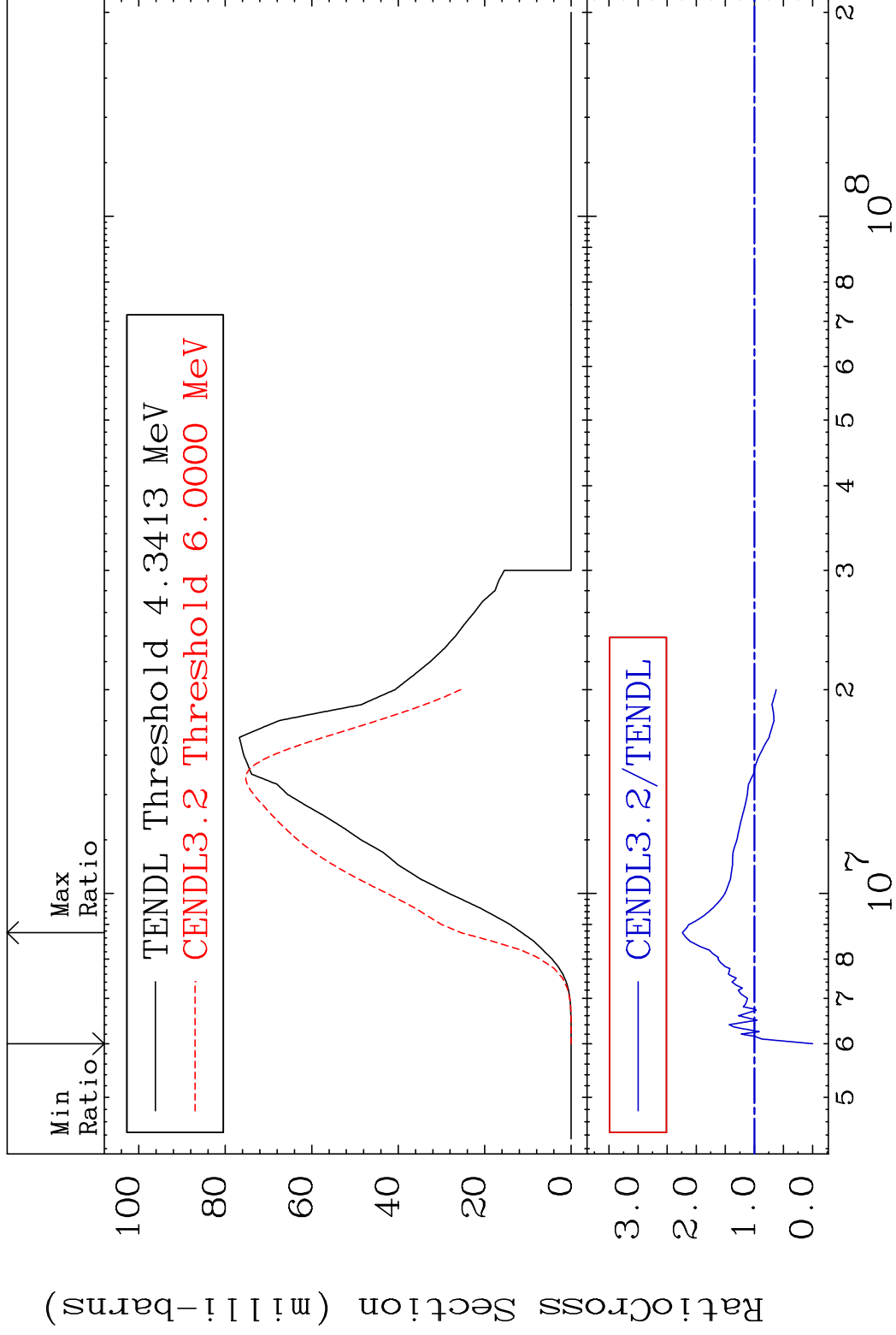


MAT 1431

(n, α)

14-Si-30

Cross Section -100.0 To 123.9 %

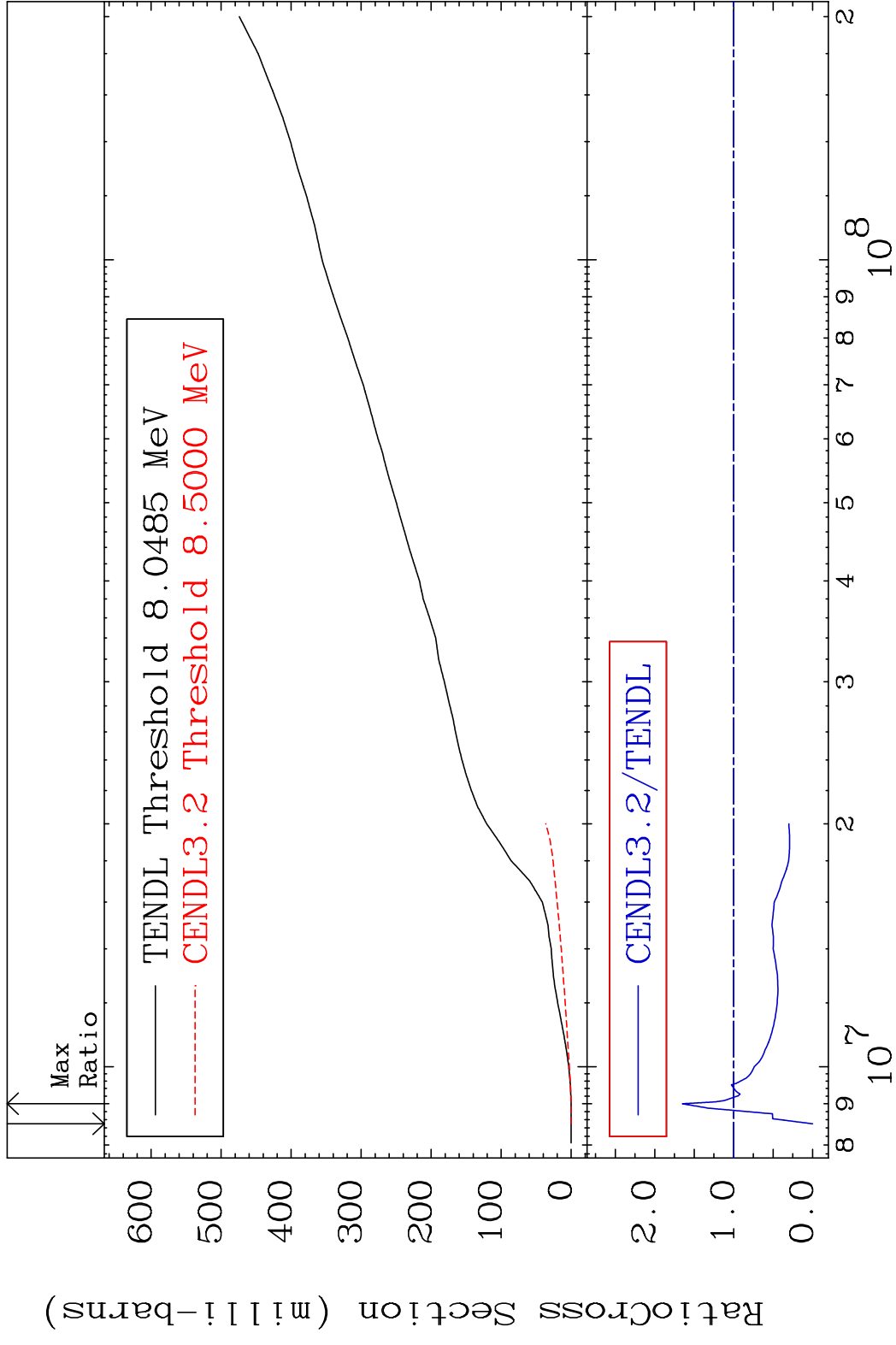


26

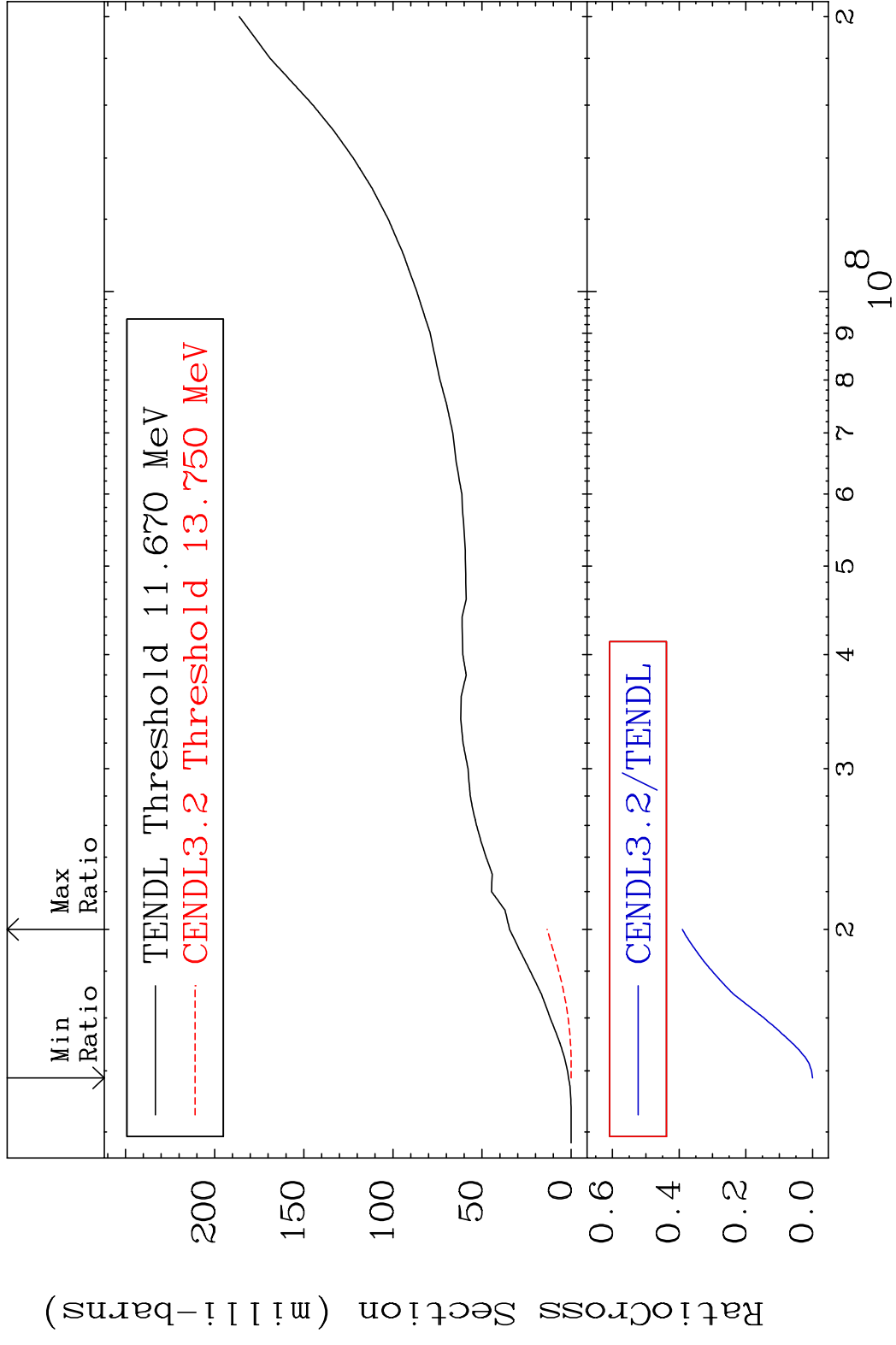
Incident Energy (eV)

14-Si-30

MAT 1431 Hydrogen Production 14-Si-30
 Cross Section -100.0 To 65.00 %

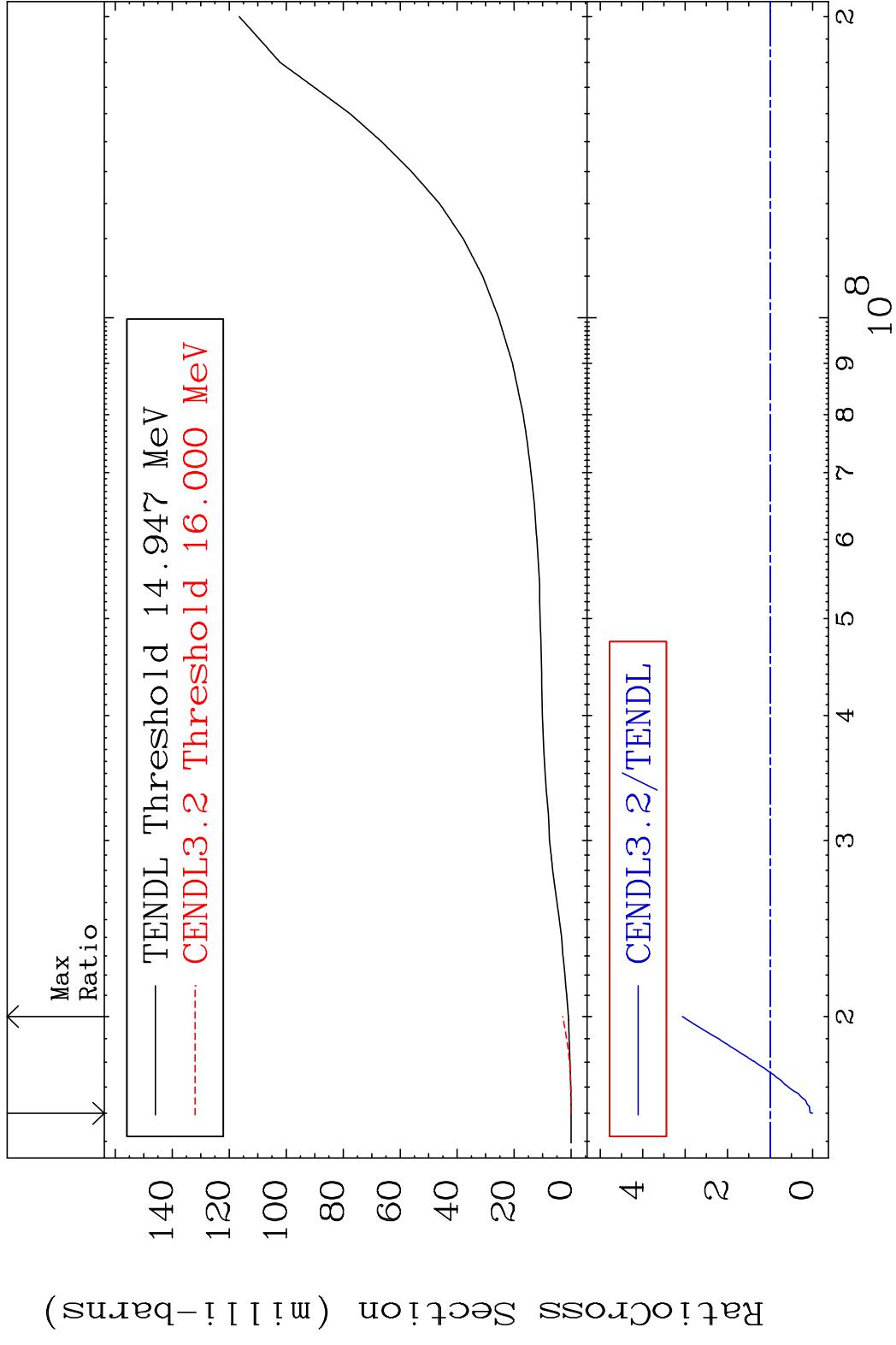


MAT 1431 Deuterium Production 14-Si-30
 Cross Section -100.0 To -60.96%



28 Incident Energy (eV) 14-Si-30

MAT 1431 Tritium Production 14-Si-30
 Cross Section -100.0 To 206.6 %

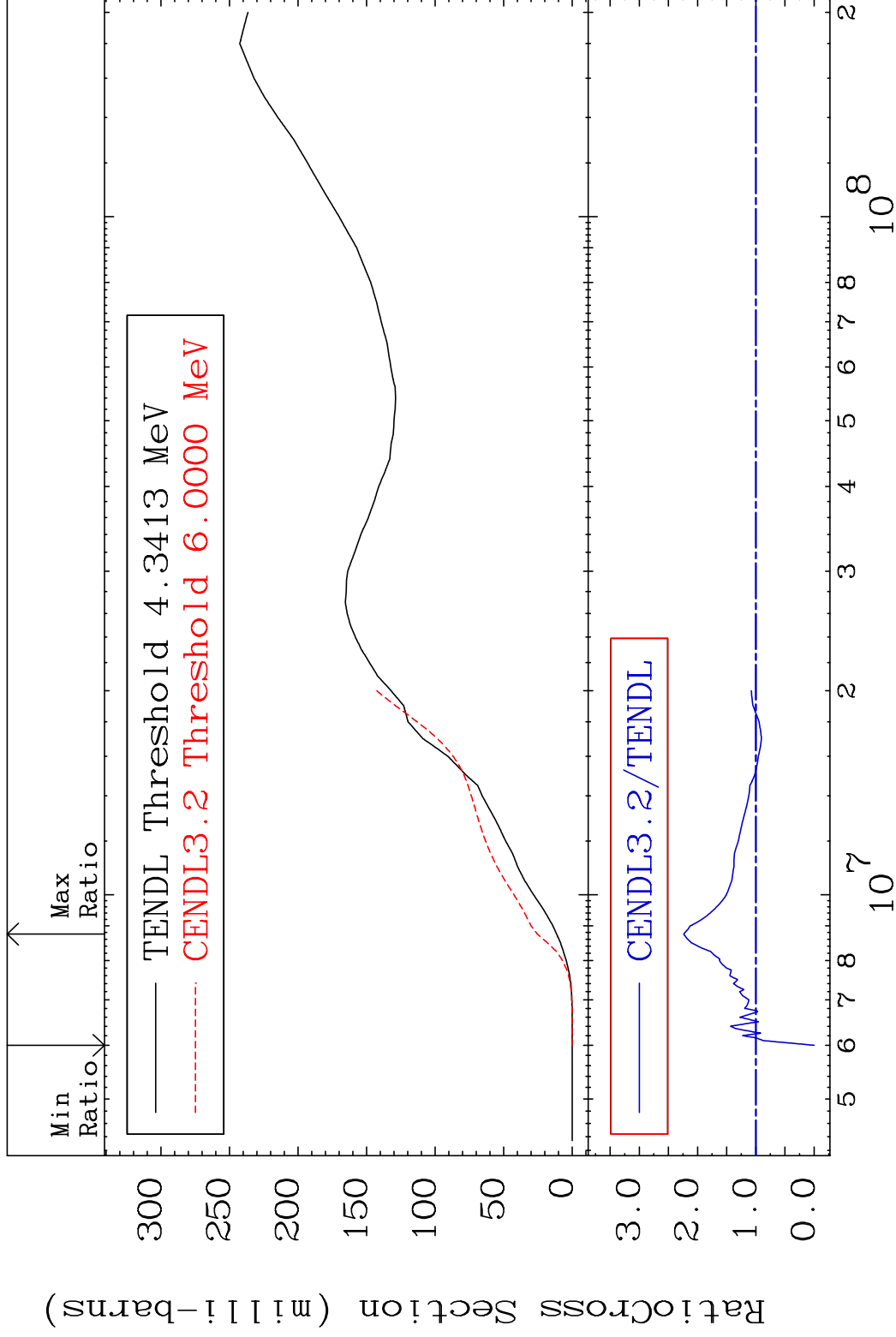


MAT 1431

He-4 Production

¹⁴Si-30

Cross Section -100.0 To 123.9 %

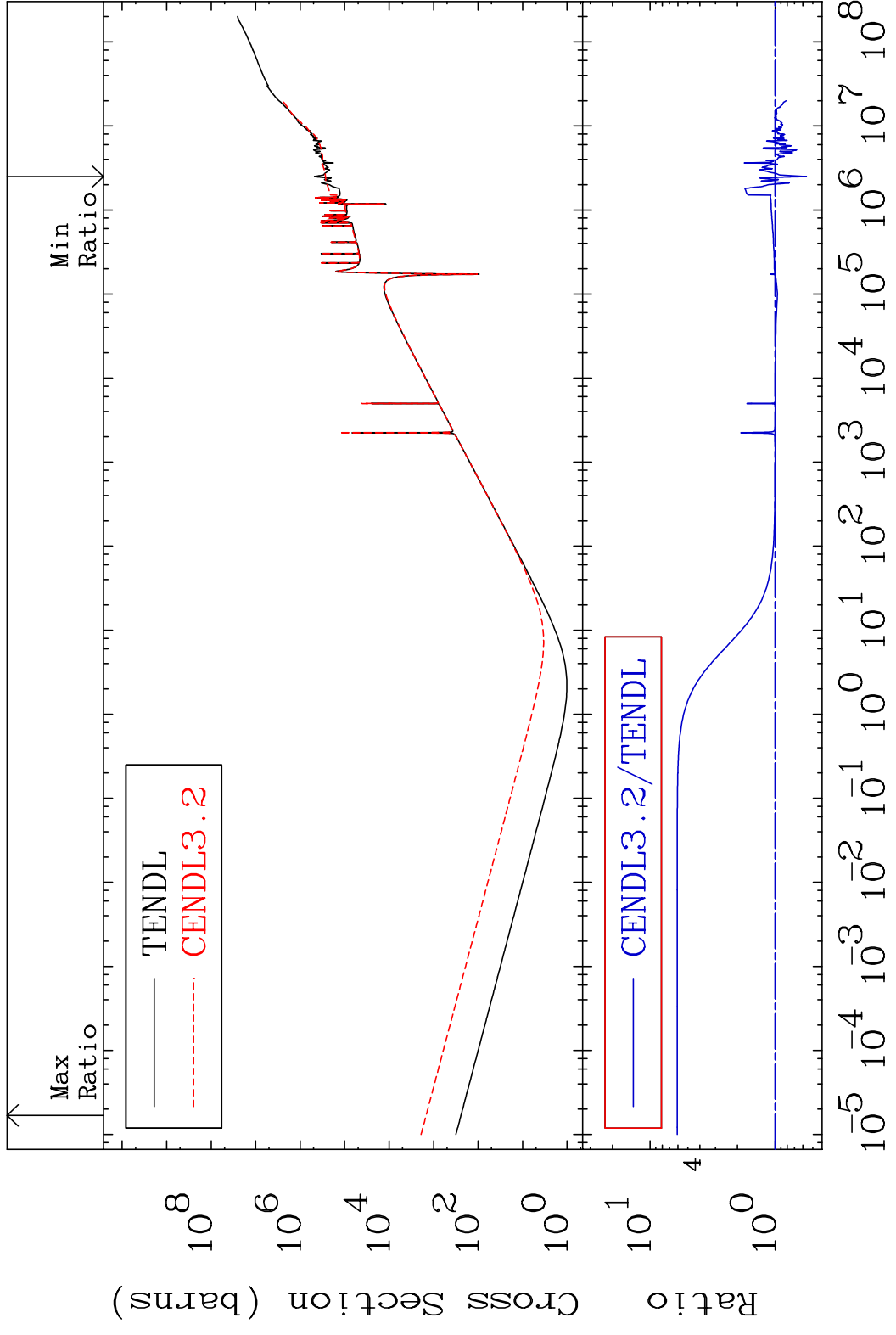


30

Incident Energy (eV)

¹⁴Si-30

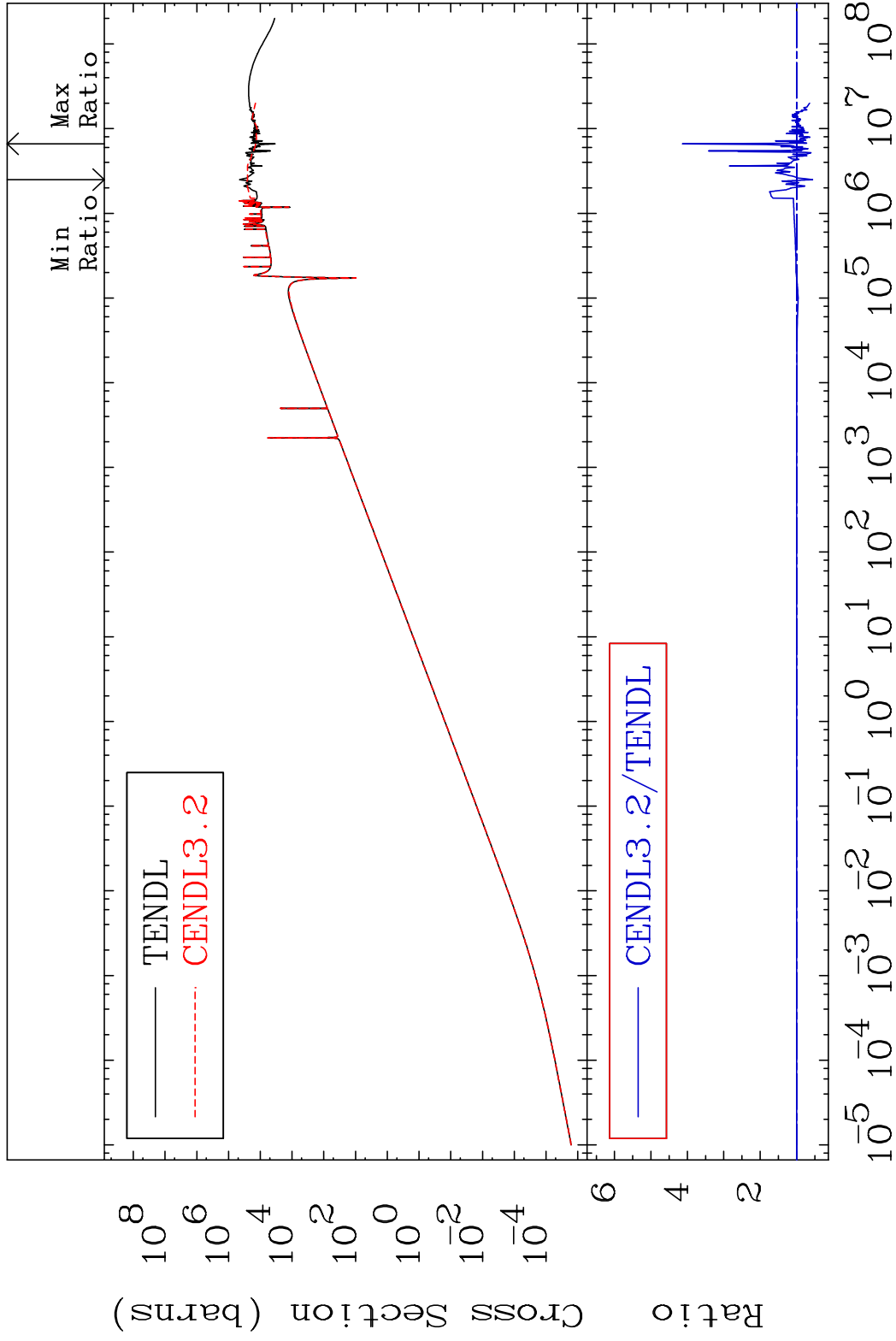
MAT 1431 Kerma total (eV-barns) 14-Si-30
 Cross Section -43.72 To 507.4 %



MAT 1431

Kerma elastic
Cross Section

14-Si-30
-43.76 To 313.7 %

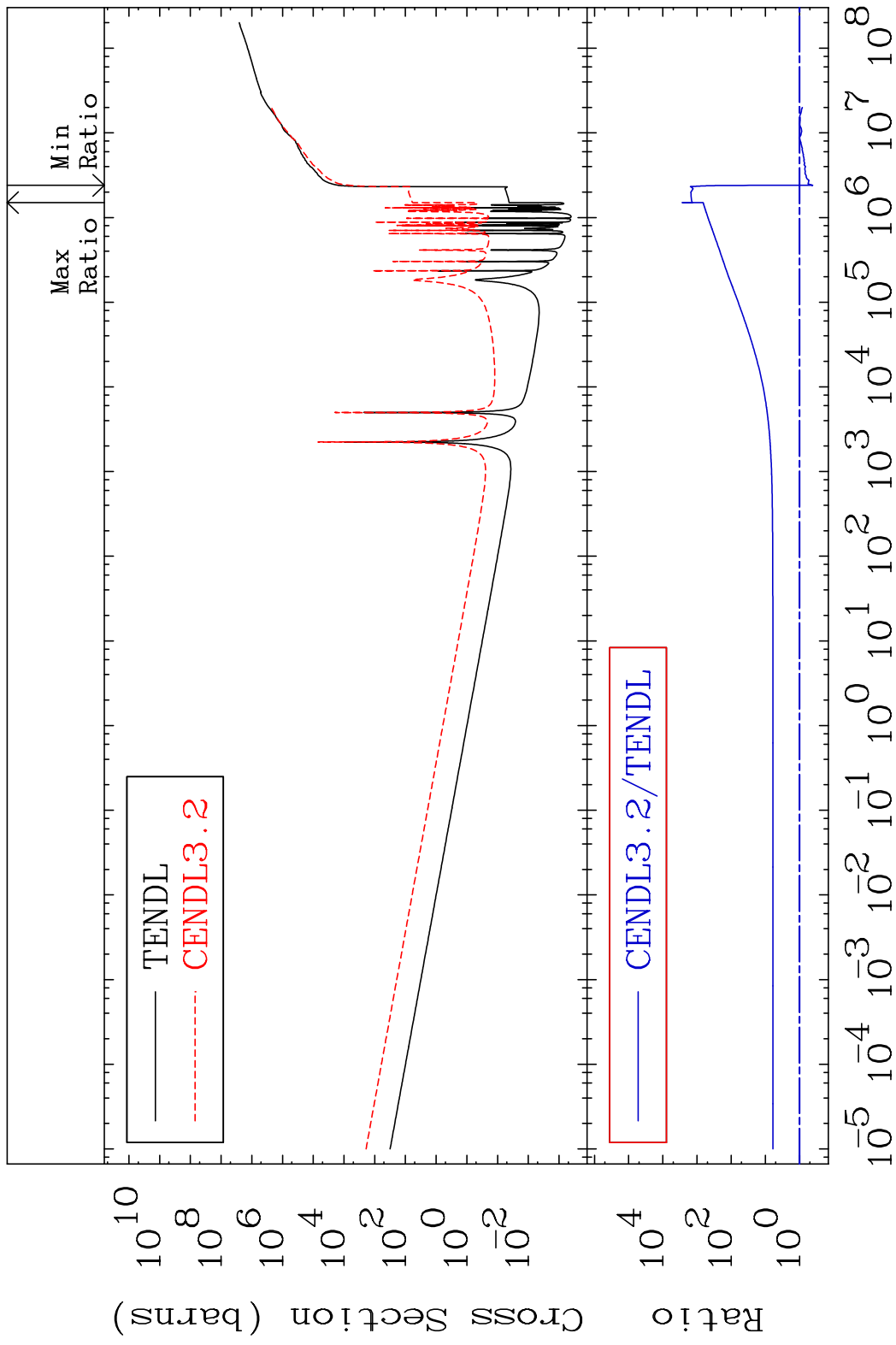


32

Incident Energy (eV)

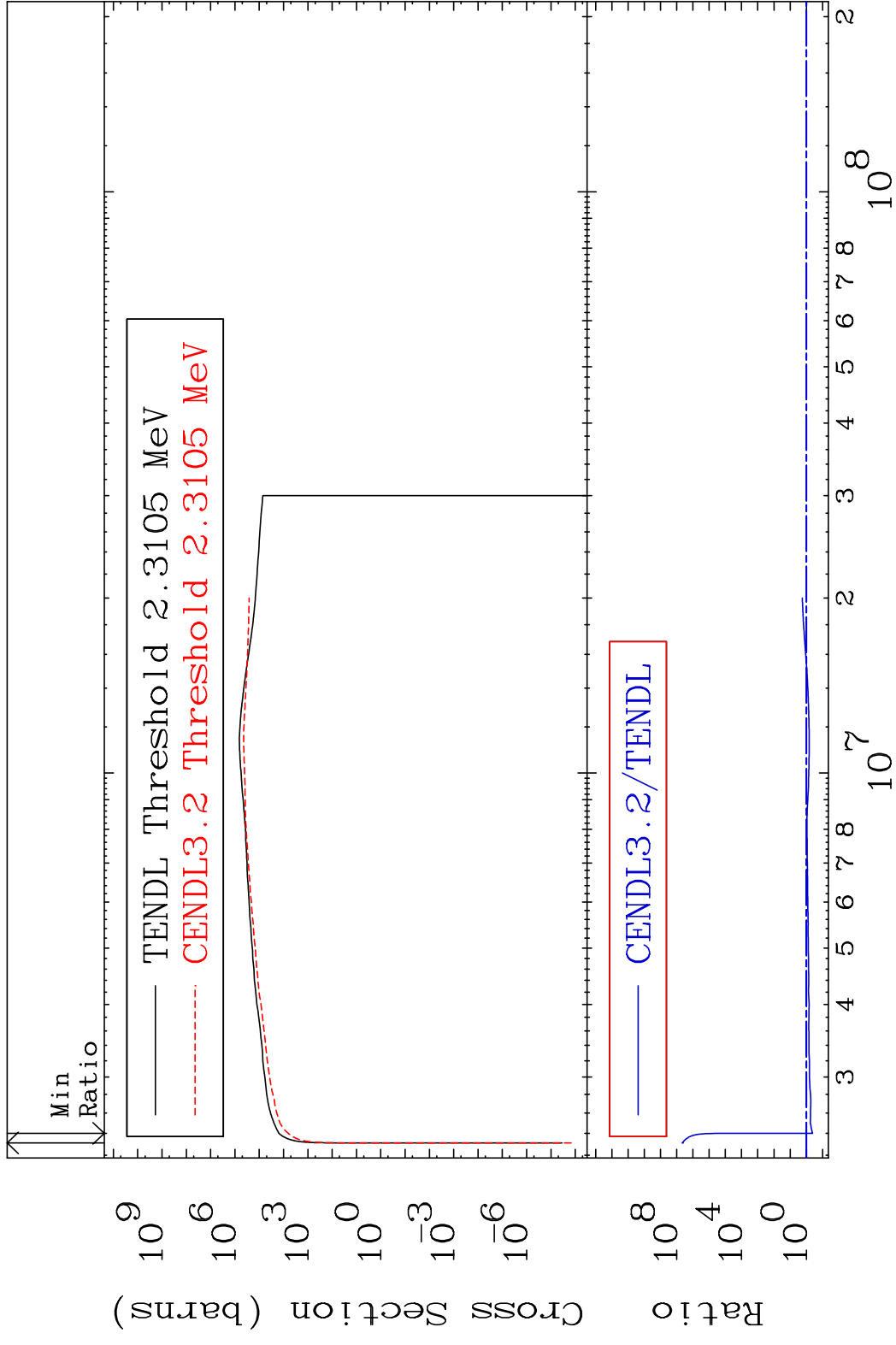
14-Si-30

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

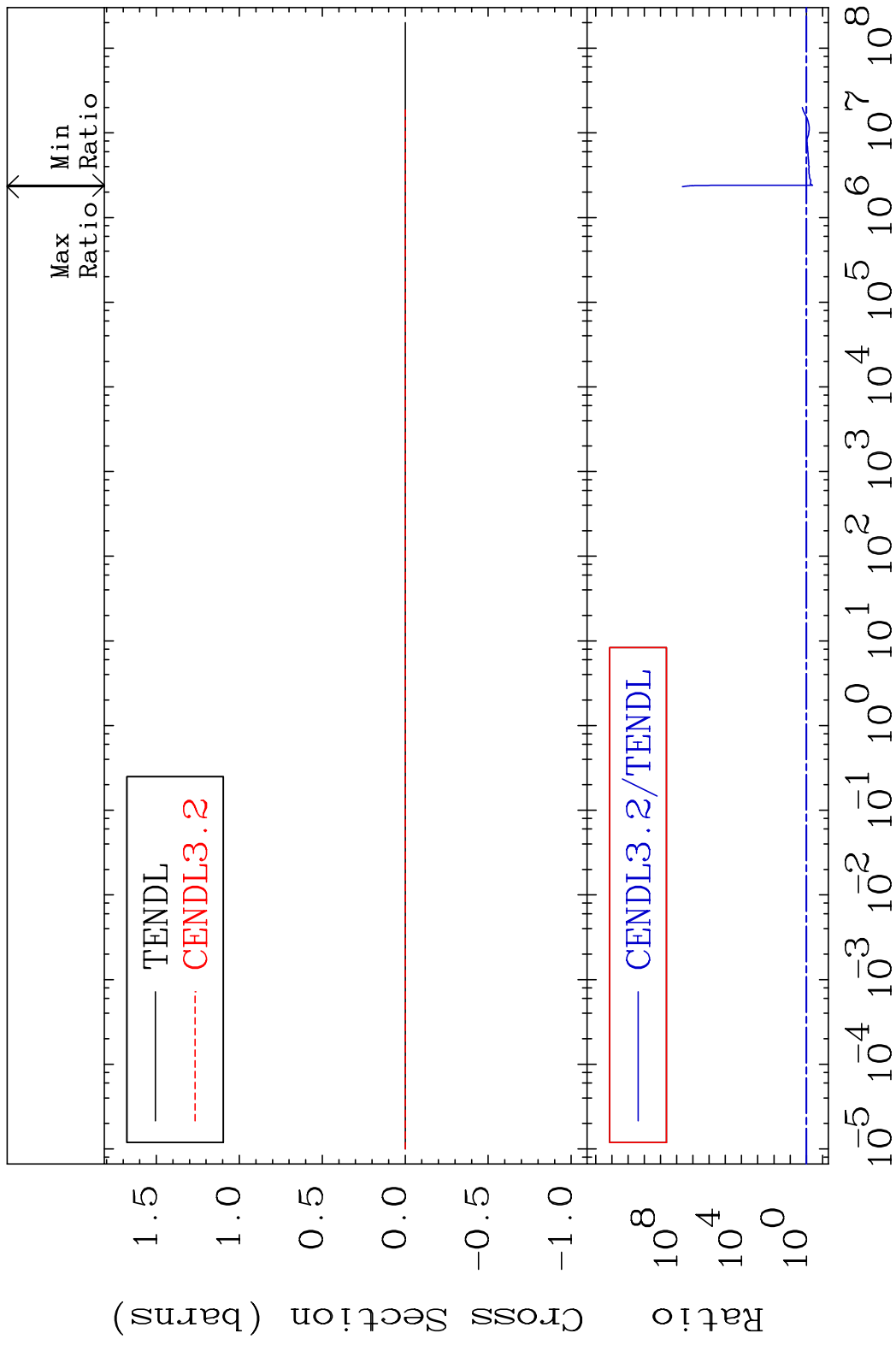


33 Incident Energy (eV) 14-Si-30

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. %

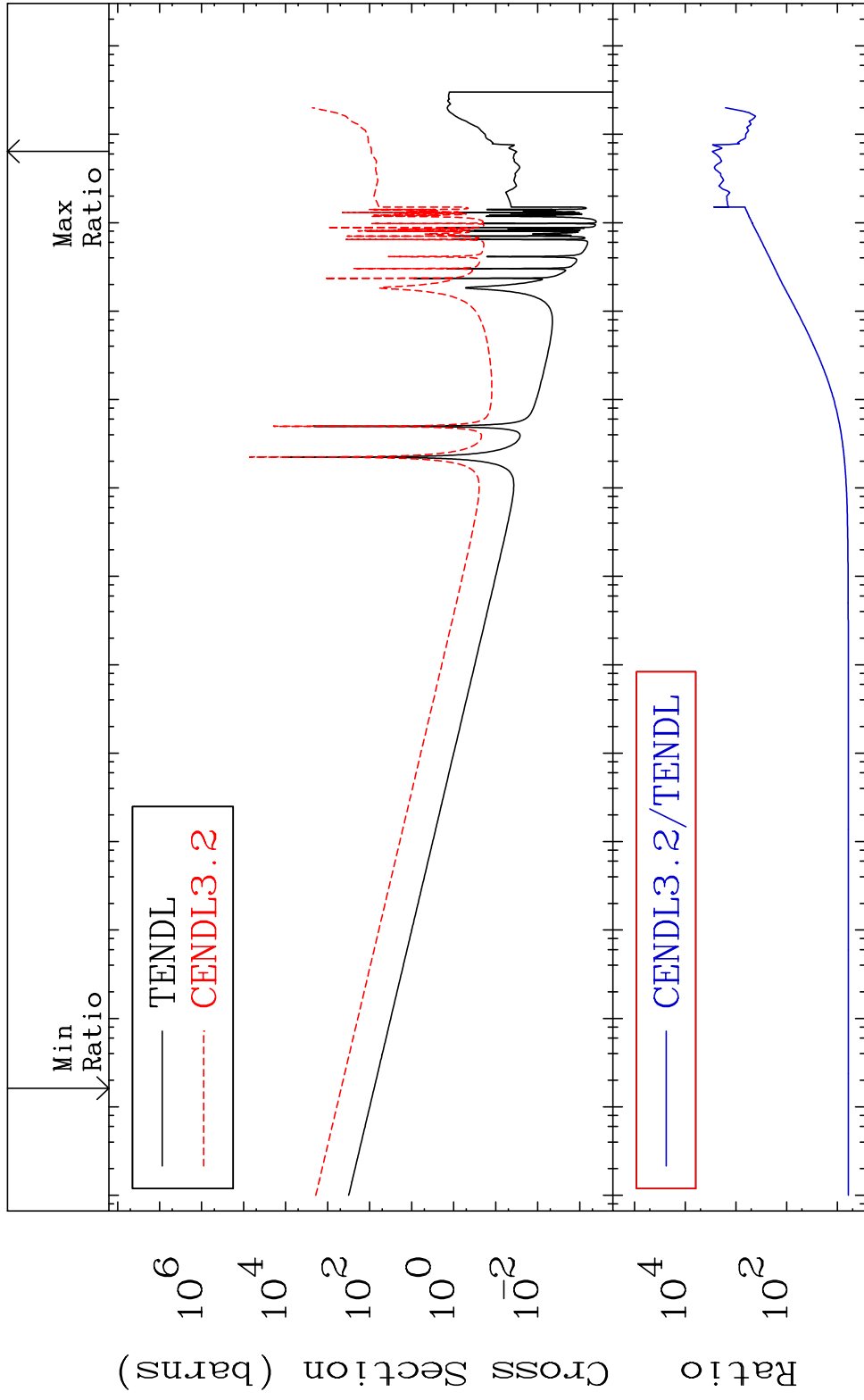


MAT 1431

Kerma capture (mt102)

14-Si-30

Cross Section 507.4 To 9999. %



Cross Section (barns)

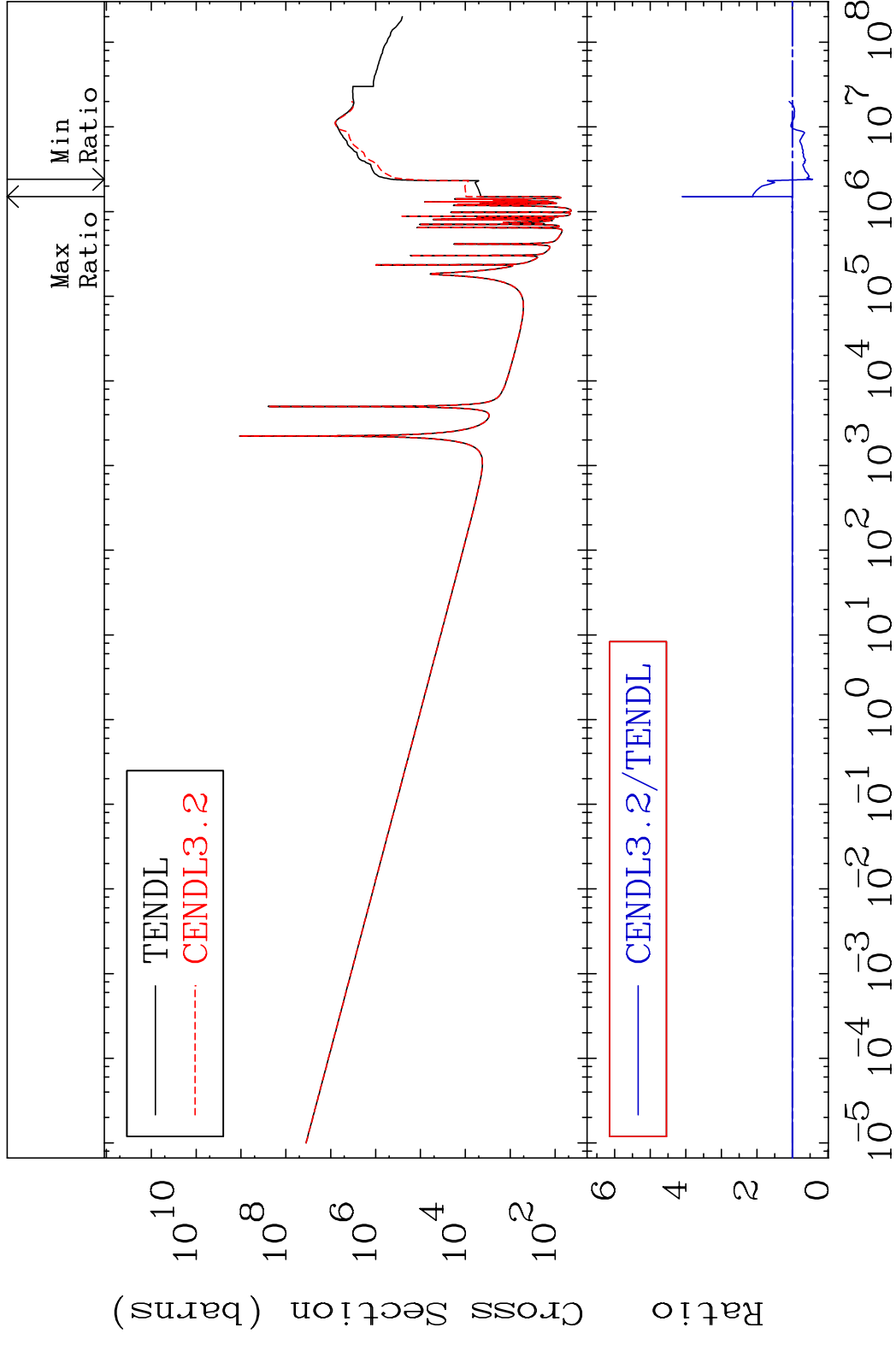
Ratio

Incident Energy (eV)

36

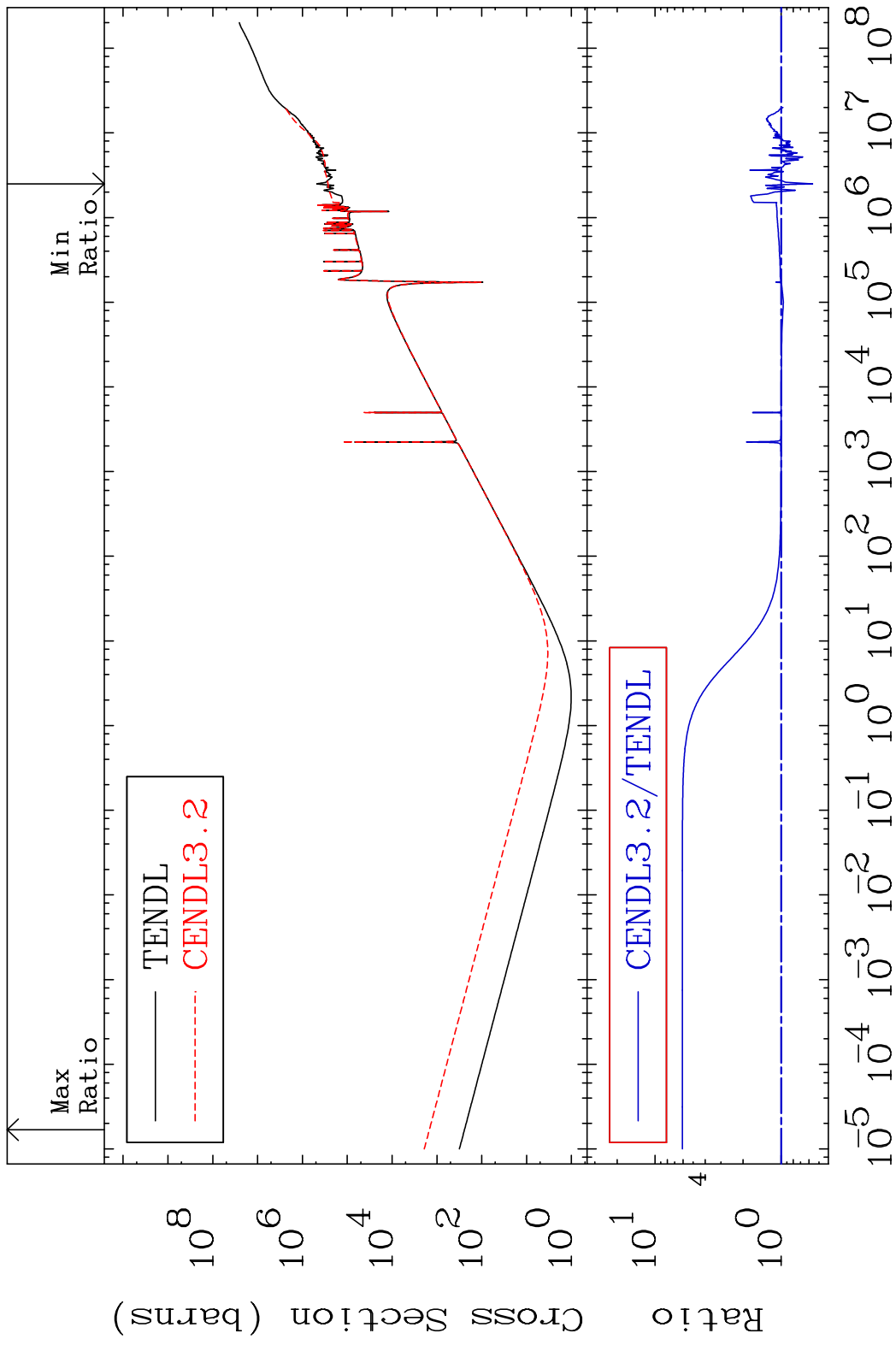
14-Si-30

MAT 1431 Total photon (eV-barns) 14-Si-30
 Cross Section -56.60 To 309.4 %



37 Incident Energy (eV) 14-Si-30

MAT 1431 Total kinematic kerma (high limit) 14-Si-30
 Cross Section -43.72 To 507.4 %

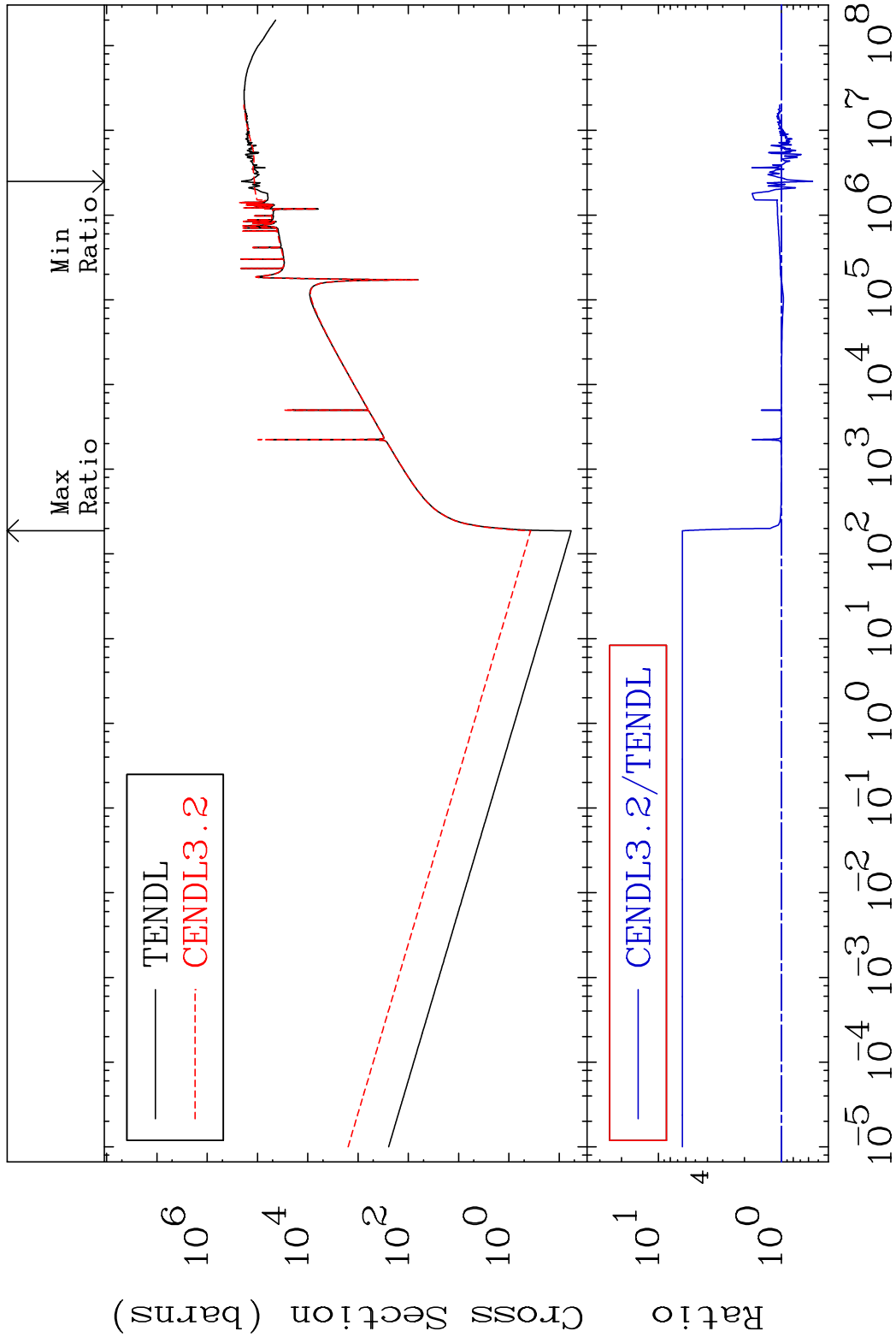


MAT 1431

Dpa total (eV-barns)

14-Si-30

Cross Section -44.28 To 539.3 %



39

Incident Energy (eV)

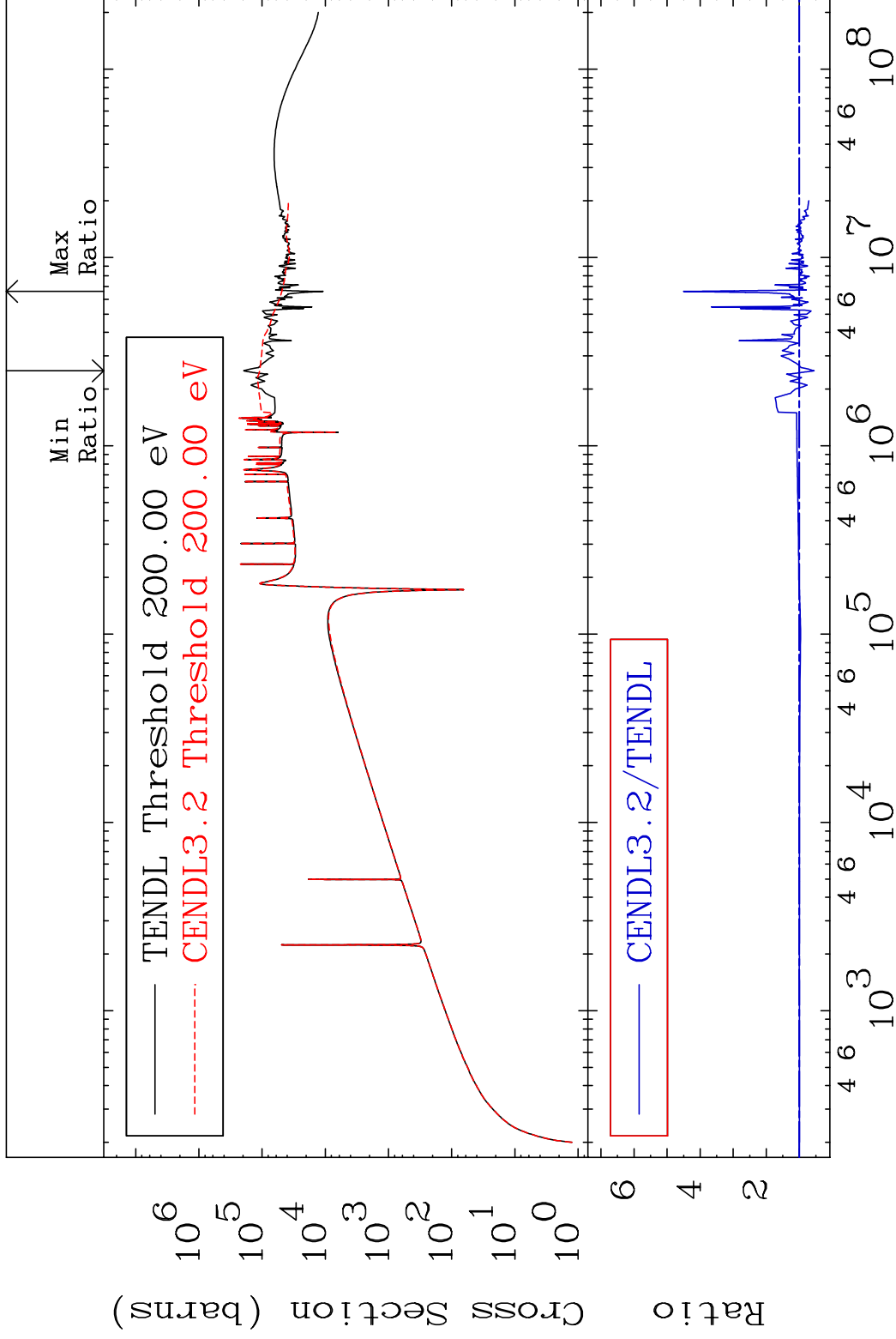
14-Si-30

MAT 1431

Dpa elastic (mt2)

14-Si-30

Cross Section -44.47 To 350.5 %

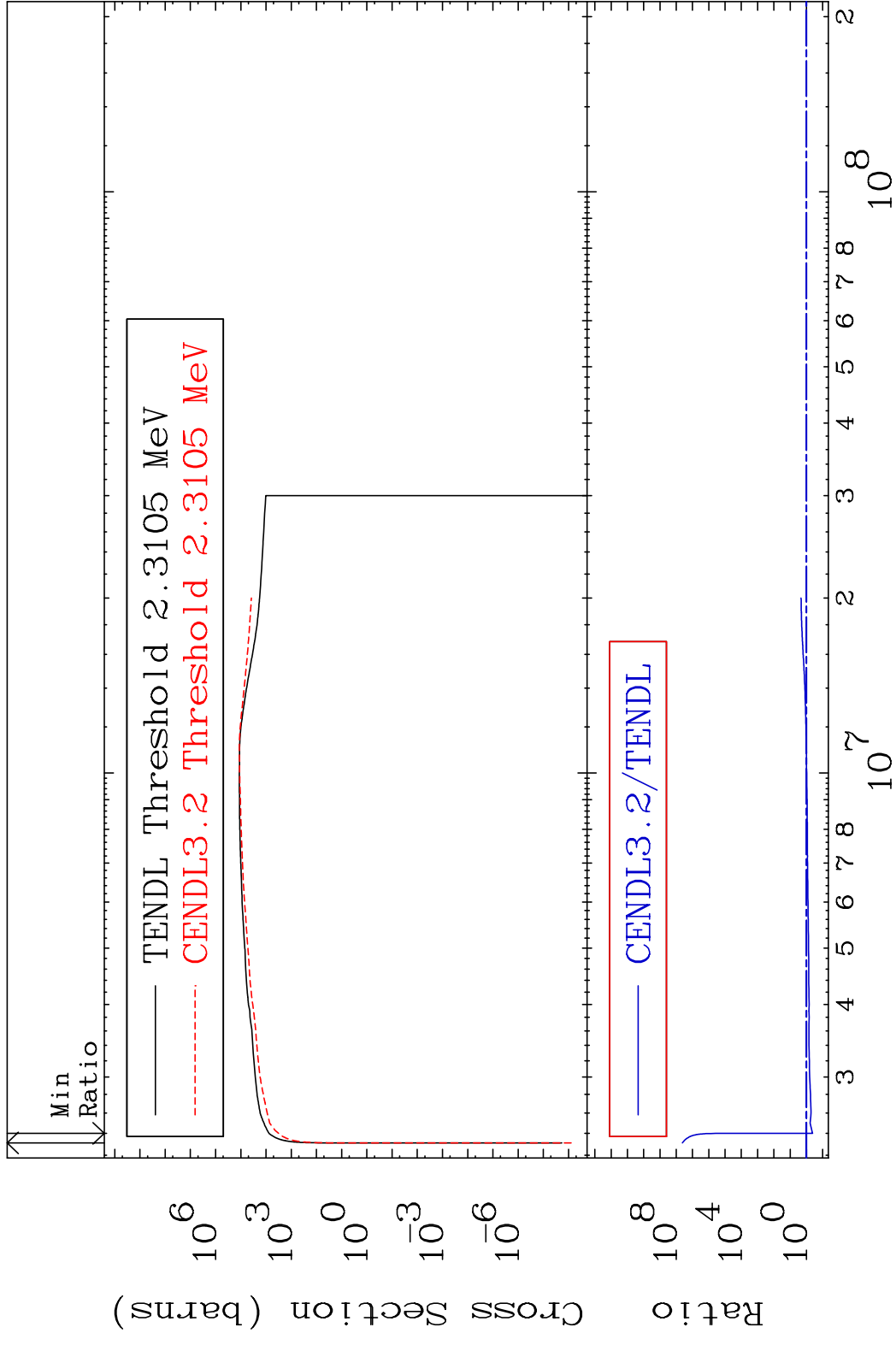


40

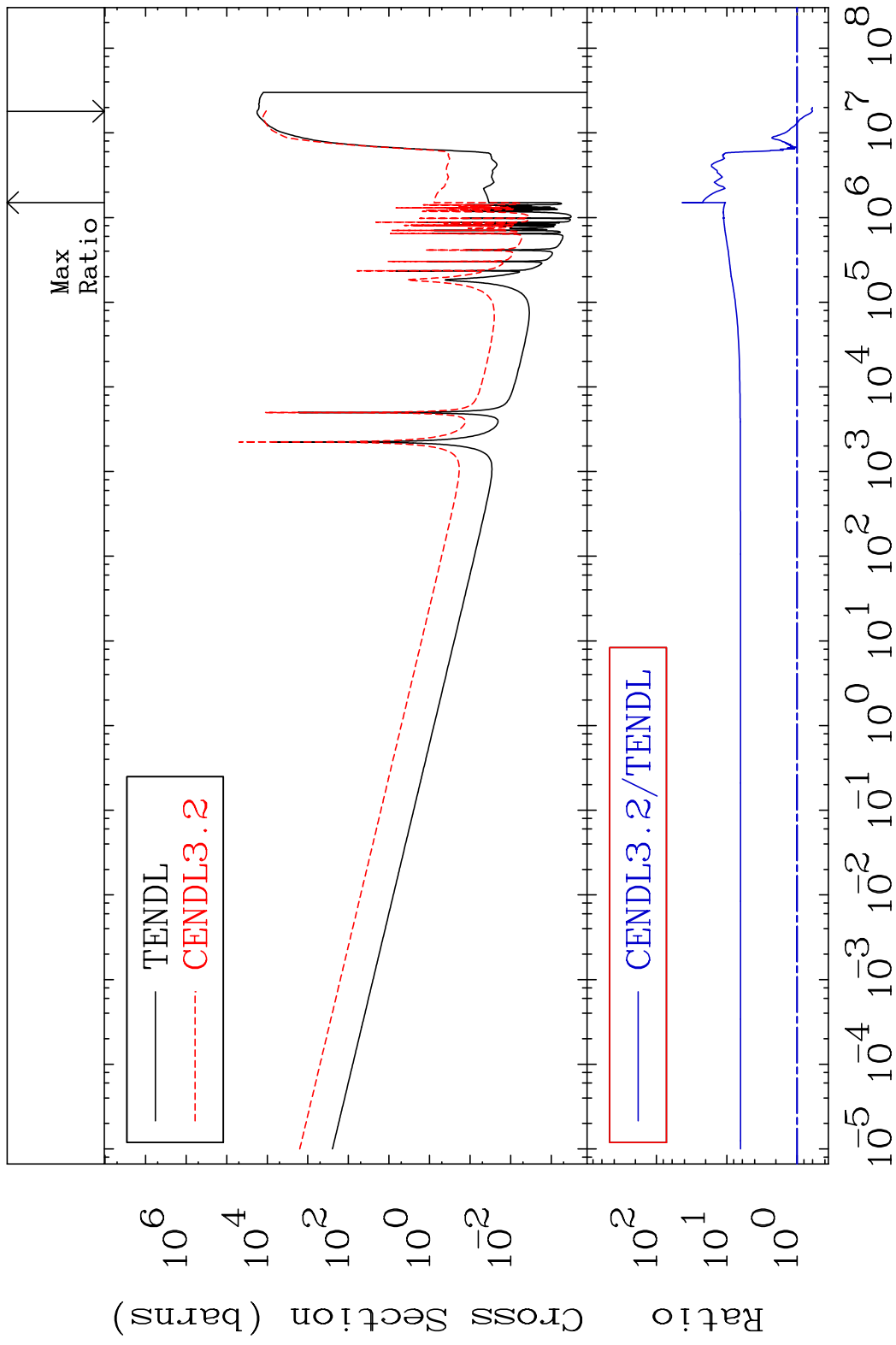
Incident Energy (eV)

14-Si-30

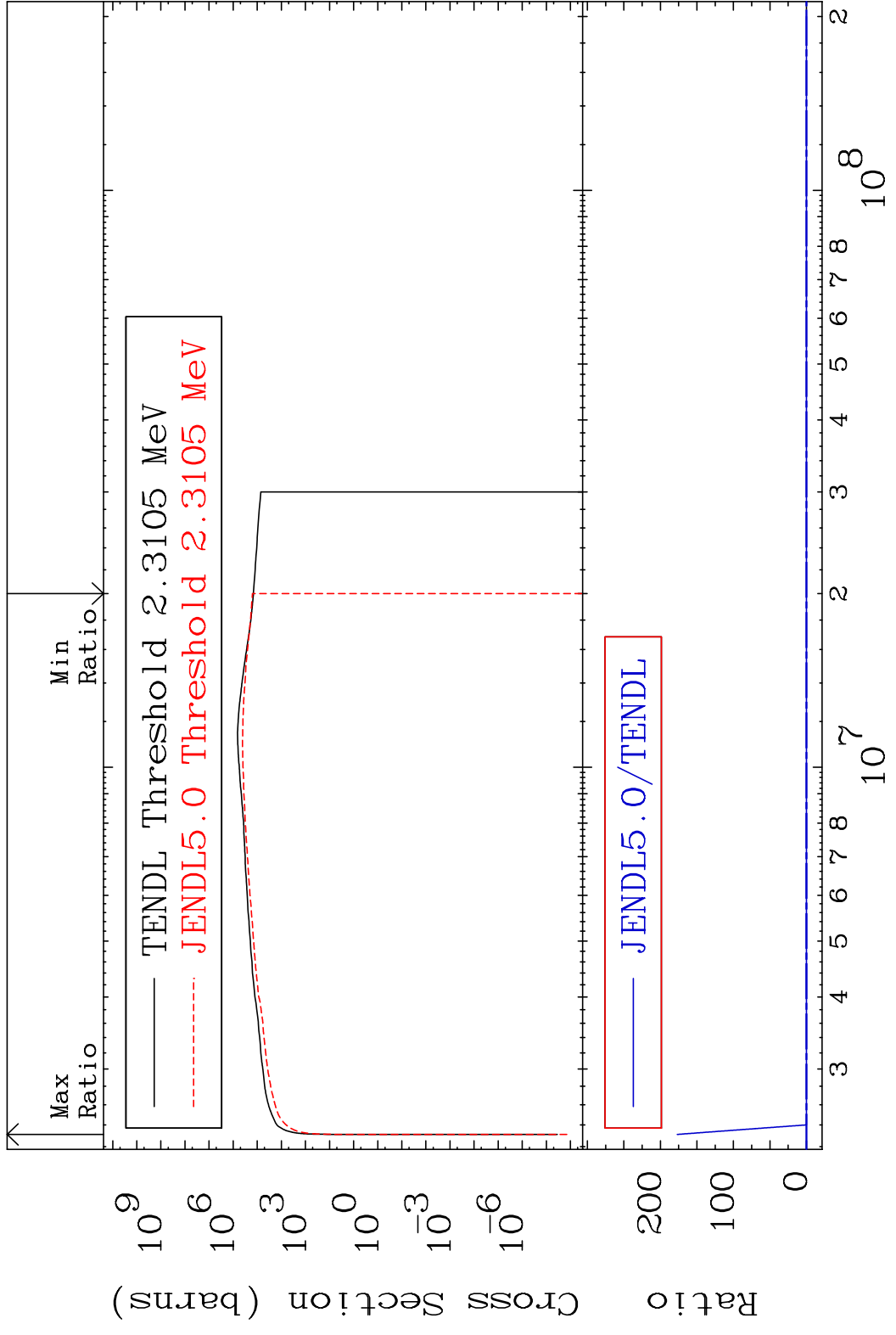
MAT 1431 Dpa inelastic (mt51-91) 14-Si-30
 Cross Section -57.92 To 9999. %



MAT 1431 Dpa disappearance (mt102 -120) 14-Si-30
 Cross Section -39.82 To 4187. %

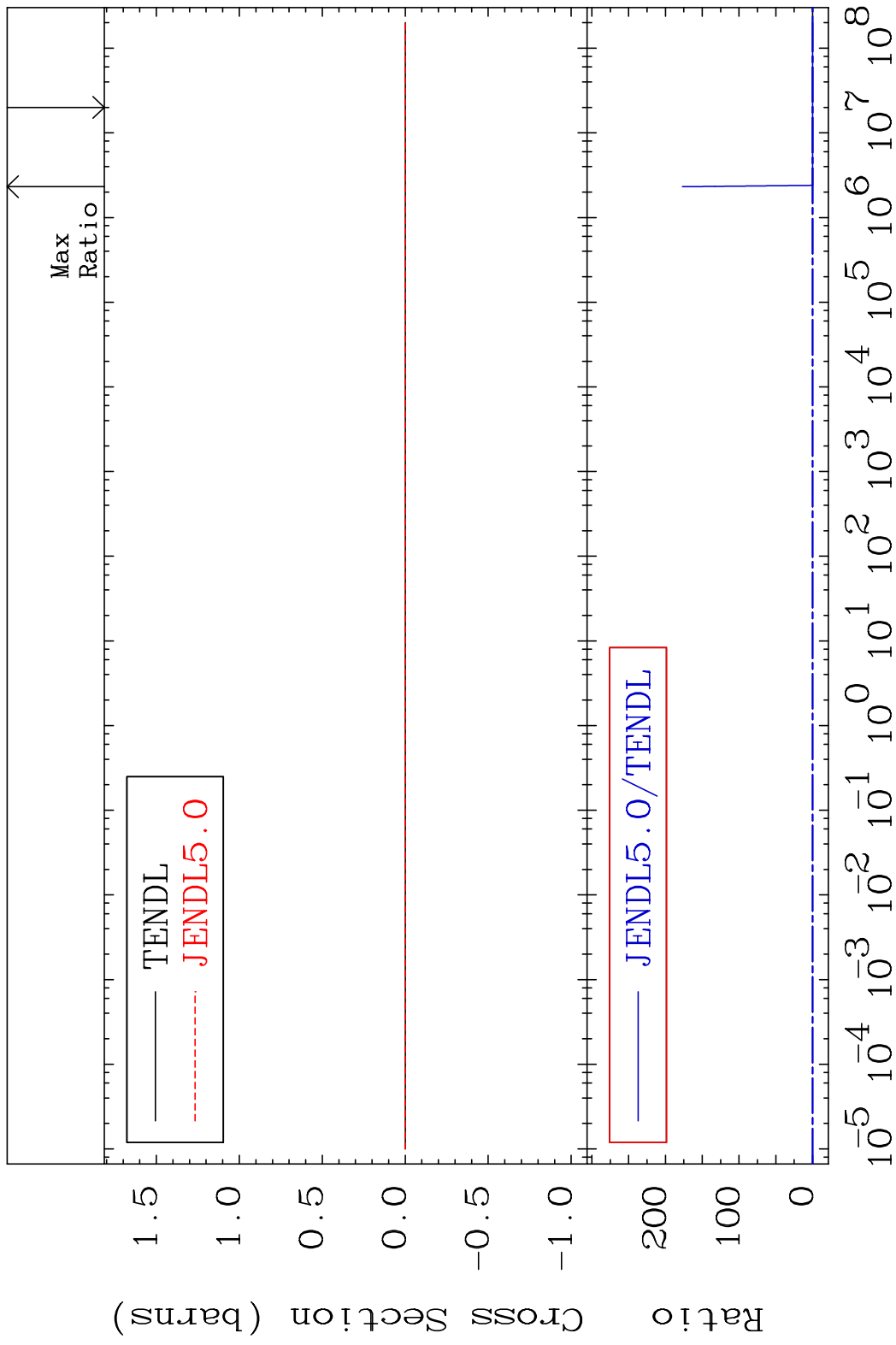


MAT 1431 Kerma inelastic (mt51-91) 14-Si-30
 Cross Section -100.0 To 9999. %



43 Incident Energy (eV) 14-Si-30

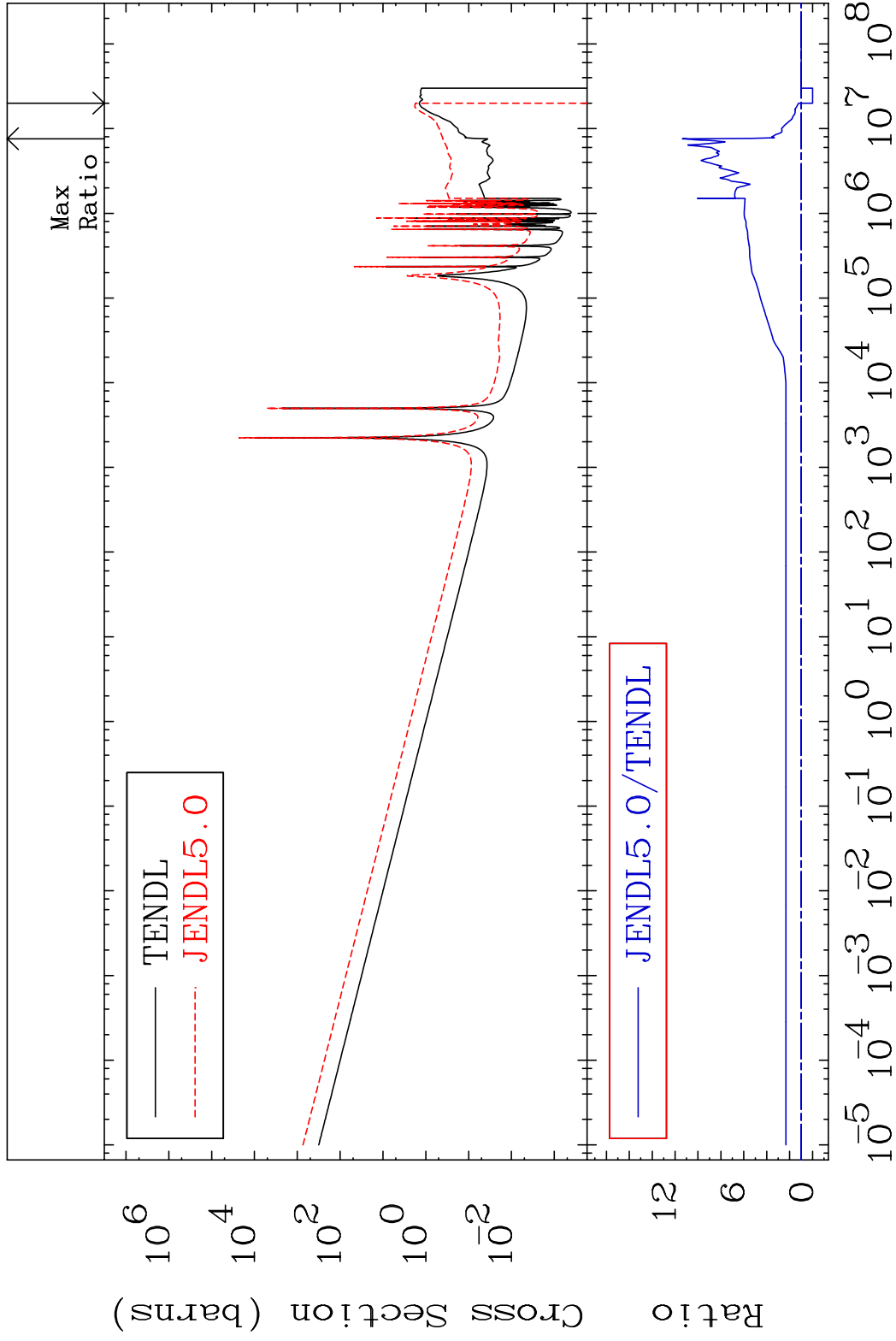
MAT 1431 Kerma fission (mt18 or mt19-20-21-38) 14-Si-30
 Cross Section -100.0 To 9999. %



MAT 1431

Kerma capture (mt102) 14-Si-30

Cross Section -100.0 To 1037. %

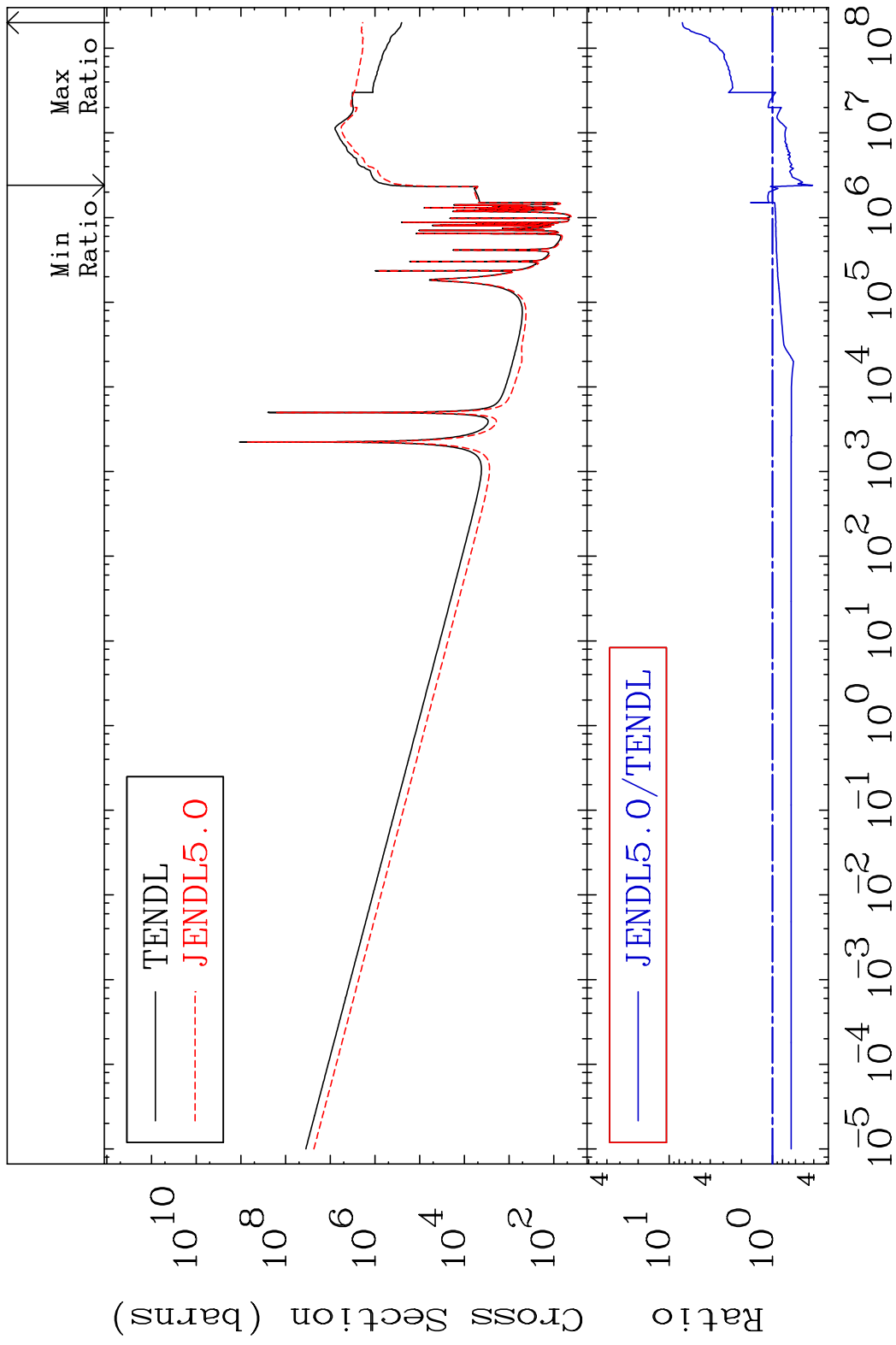


45

Incident Energy (eV)

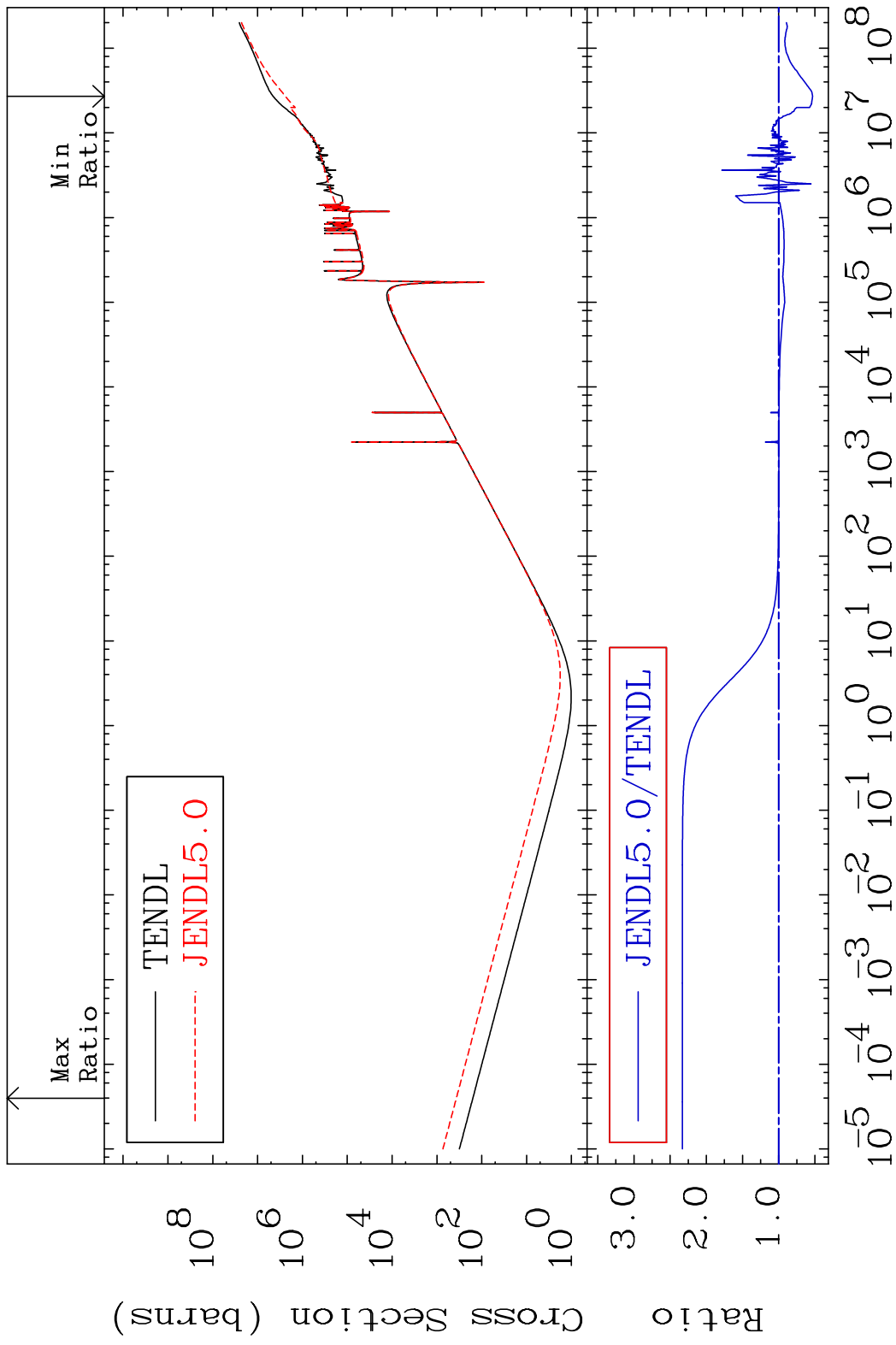
14-Si-30

MAT 1431 Total photon (eV-barns) 14-Si-30
Cross Section -58.99 To 645.5 %

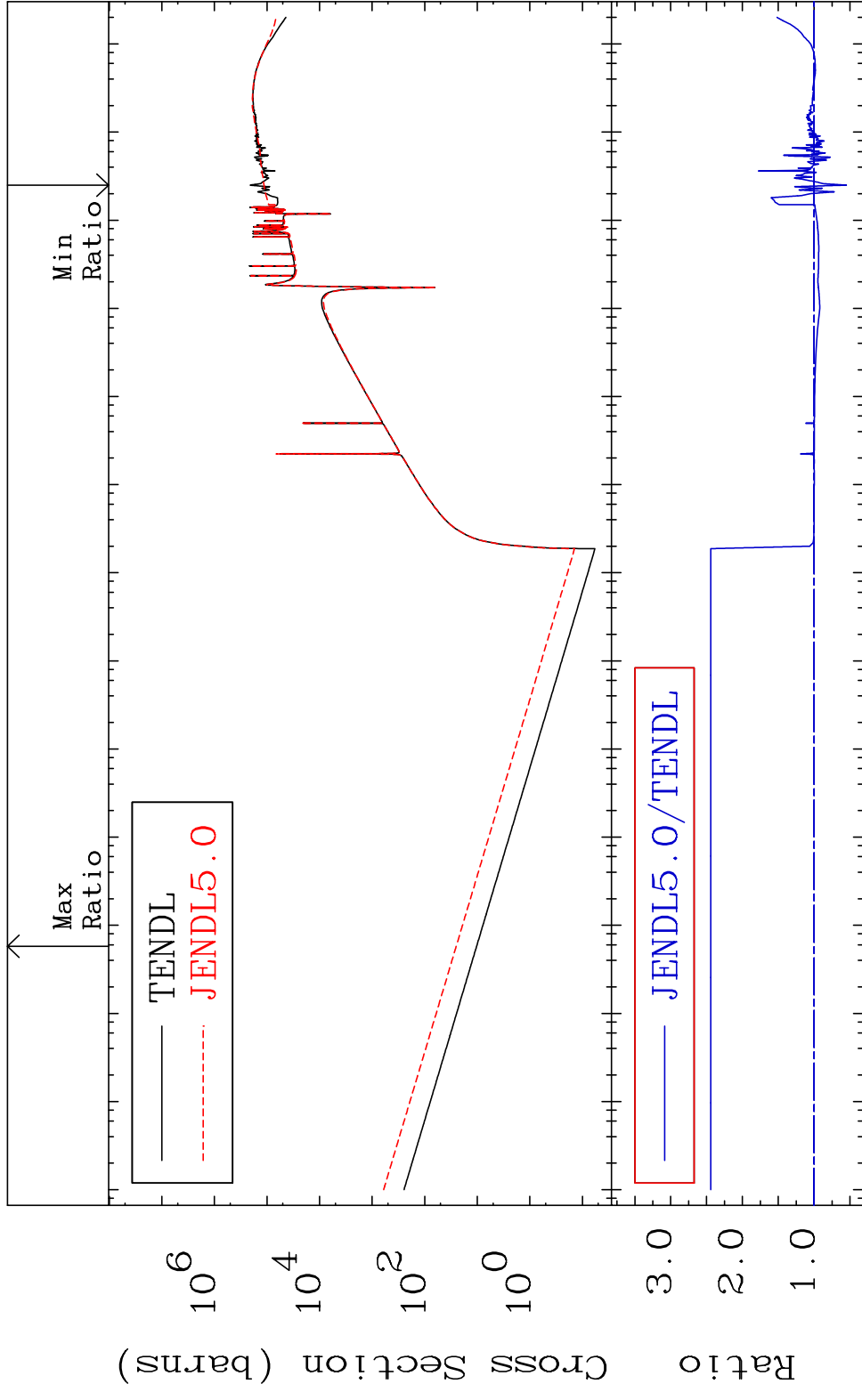


46 Incident Energy (eV) 14-Si-30

MAT 1431 Total kinematic kerma (high limit) 14-Si-30
 Cross Section -46.78 To 133.2 %



MAT 1431 Dpa total (eV-barns) 14-Si-30
 Cross Section -44.92 To 144.2 %



10⁶
 10⁴
 10²
 10⁰
 3.0
 2.0
 1.0

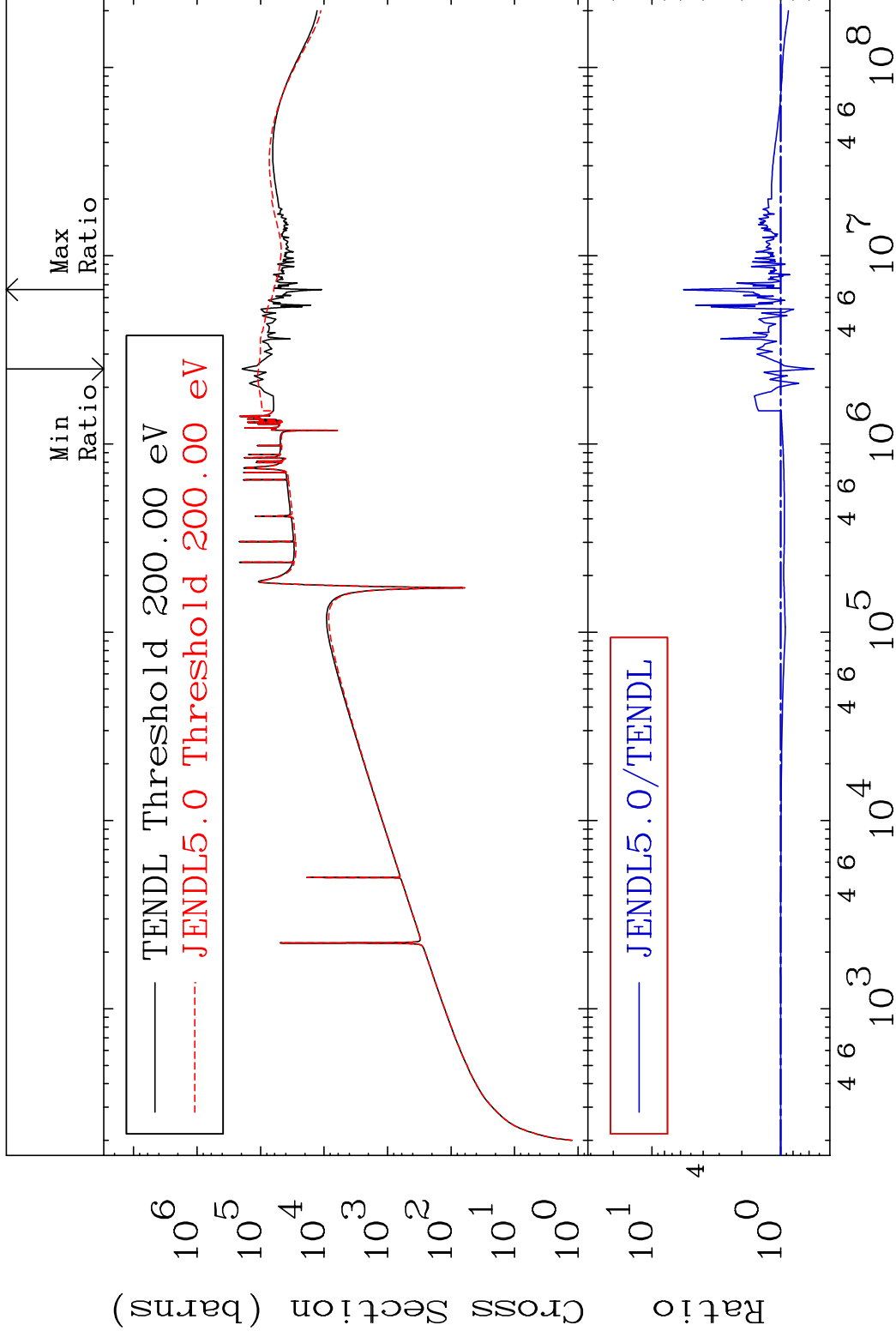
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸
 Incident Energy (eV) 14-Si-30

MAT 1431

Dpa elastic (mt2)

14-Si-30

Cross Section -45.02 To 469.7 %

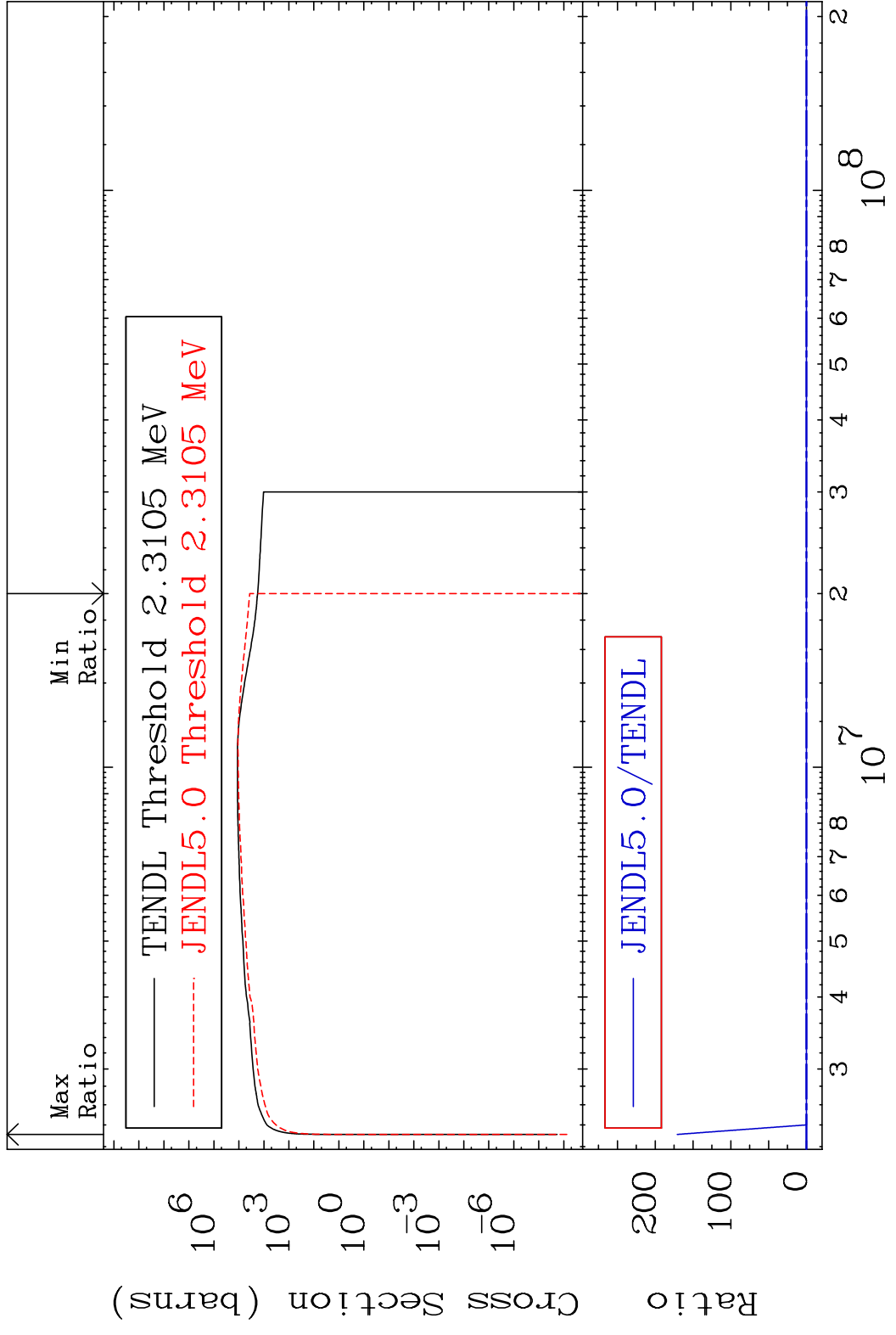


49

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 892.5 %

