

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

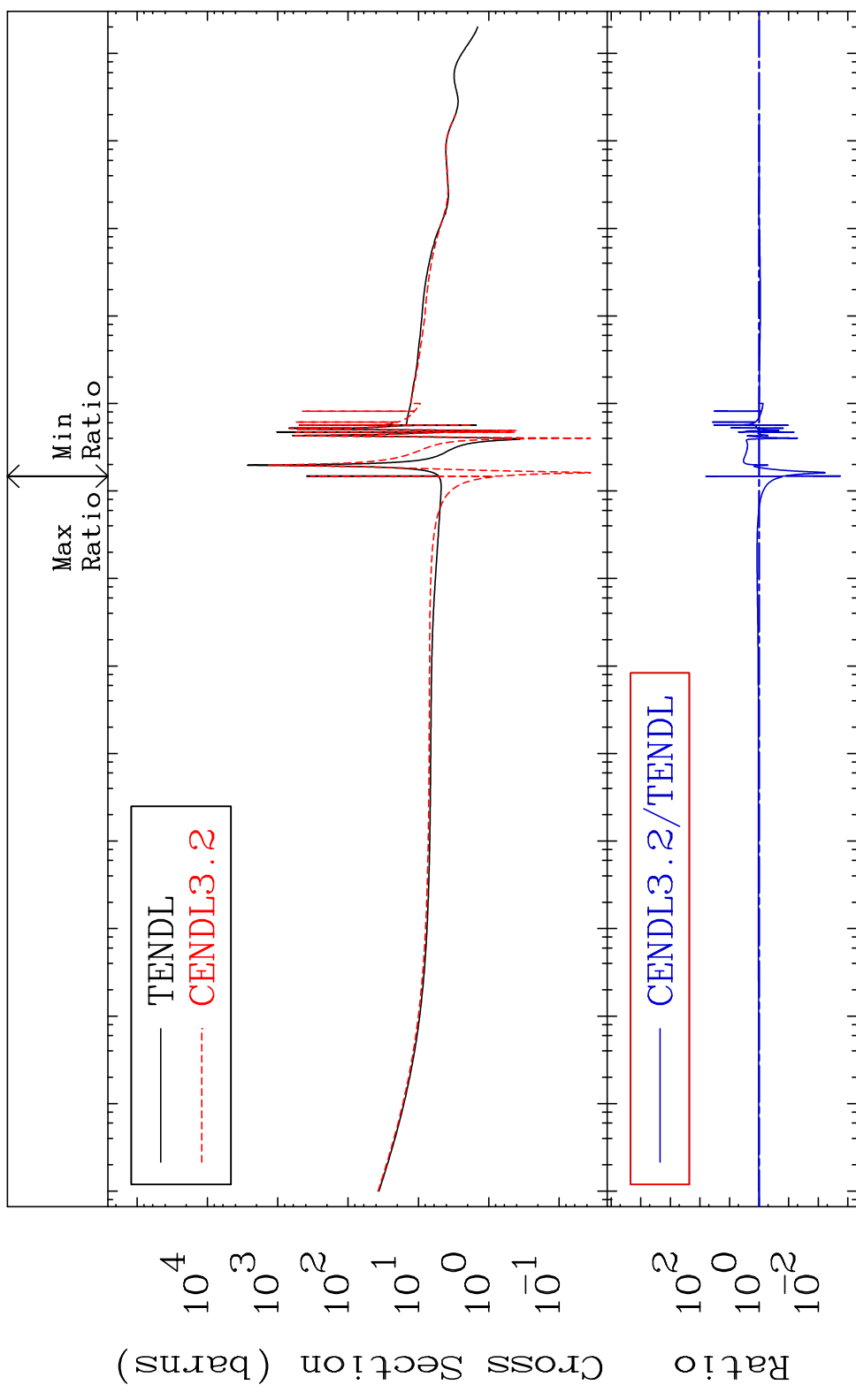
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 3443

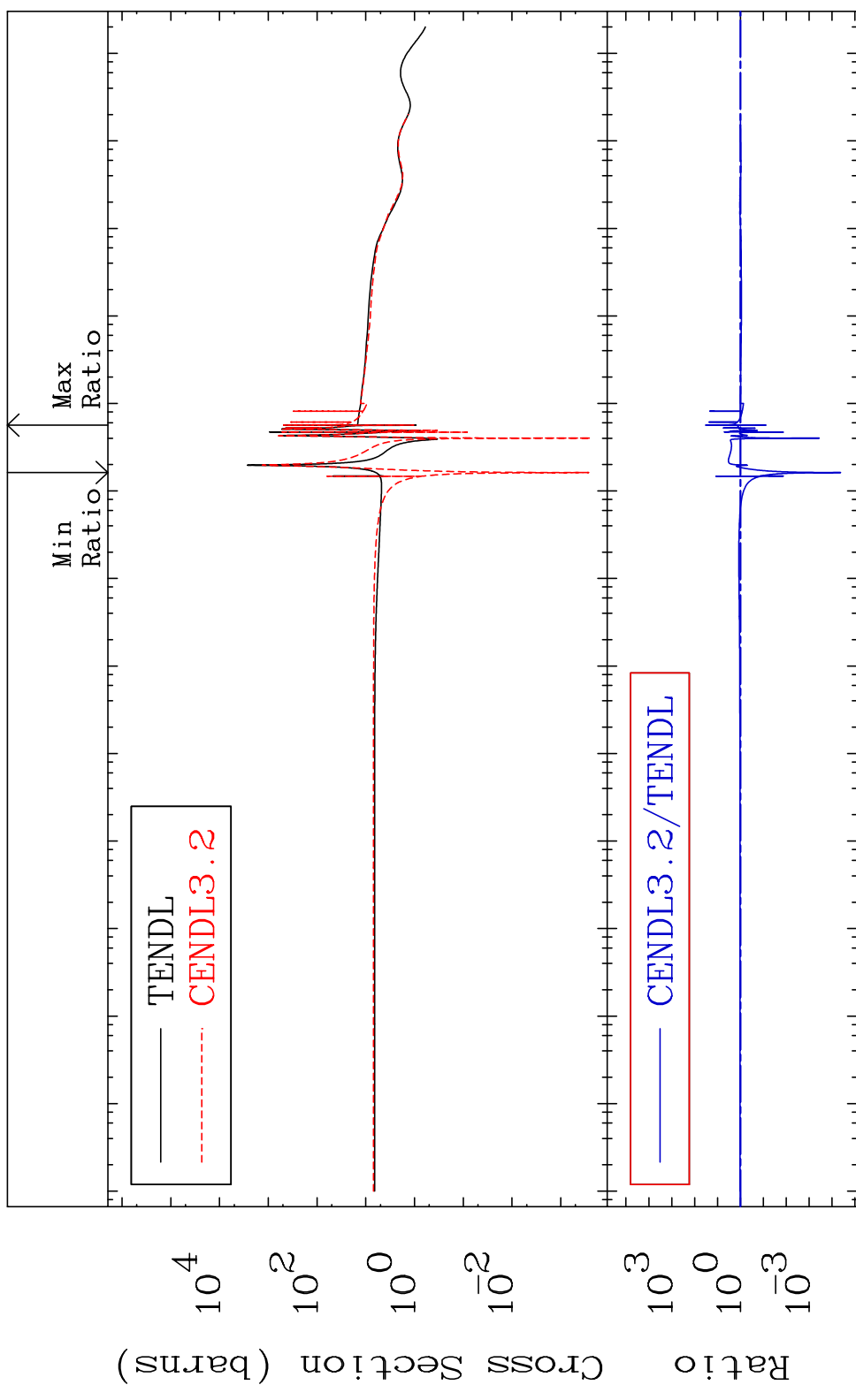
Total Cross Section -99.82 To 6250. %
34-Se-80



1 Incident Energy (eV) 34-Se-80

MAT 3443

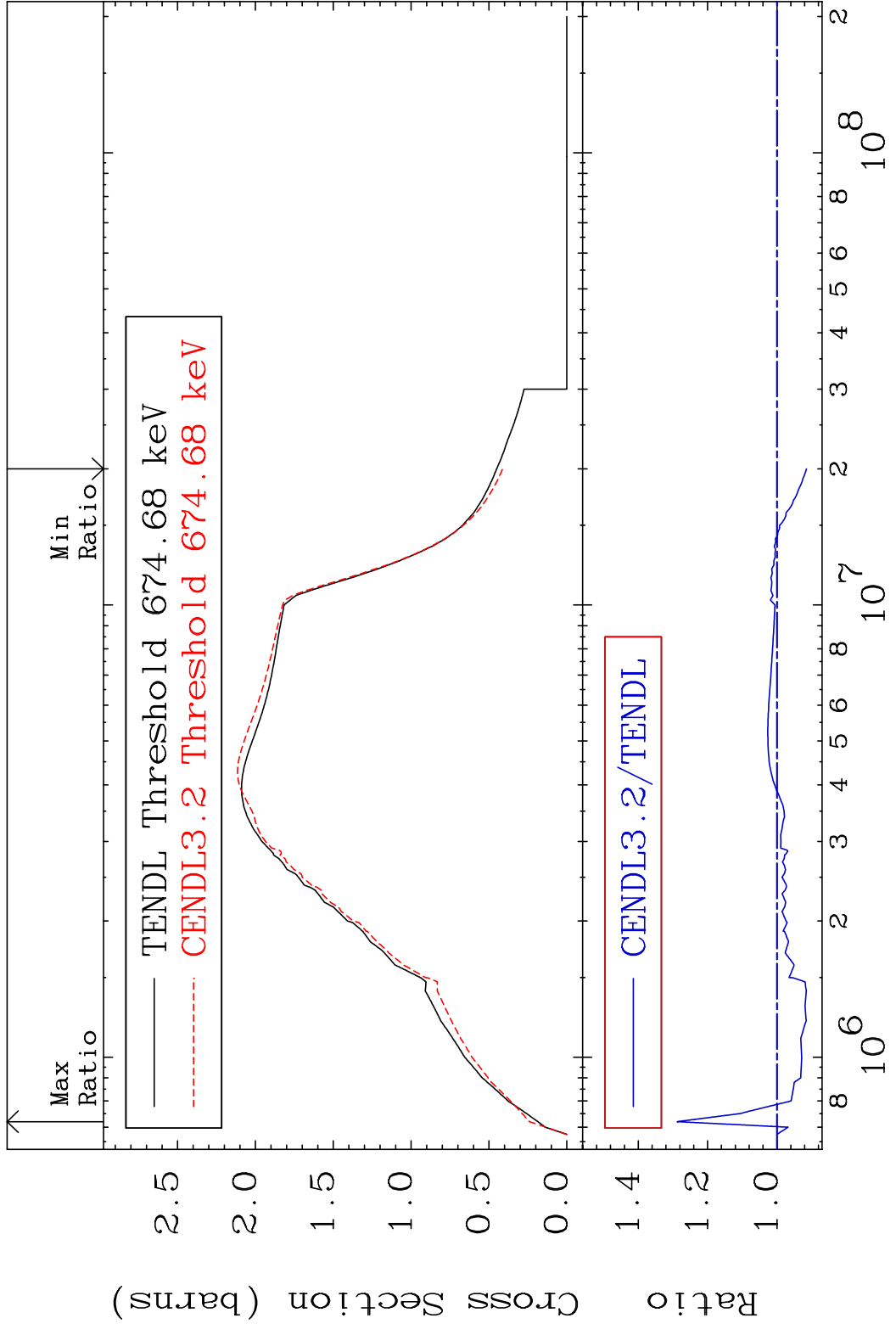
Elastic Cross Section -100.0 To 3168. %
34-Se-80



Ratio
10⁴
10²
10⁰
10⁻²
10³
10⁰
10⁻³
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

2 Incident Energy (eV) 34-Se-80

MAT 3443 Inelastic Cross Section -8.504 To 28.77 % 34-Se-80



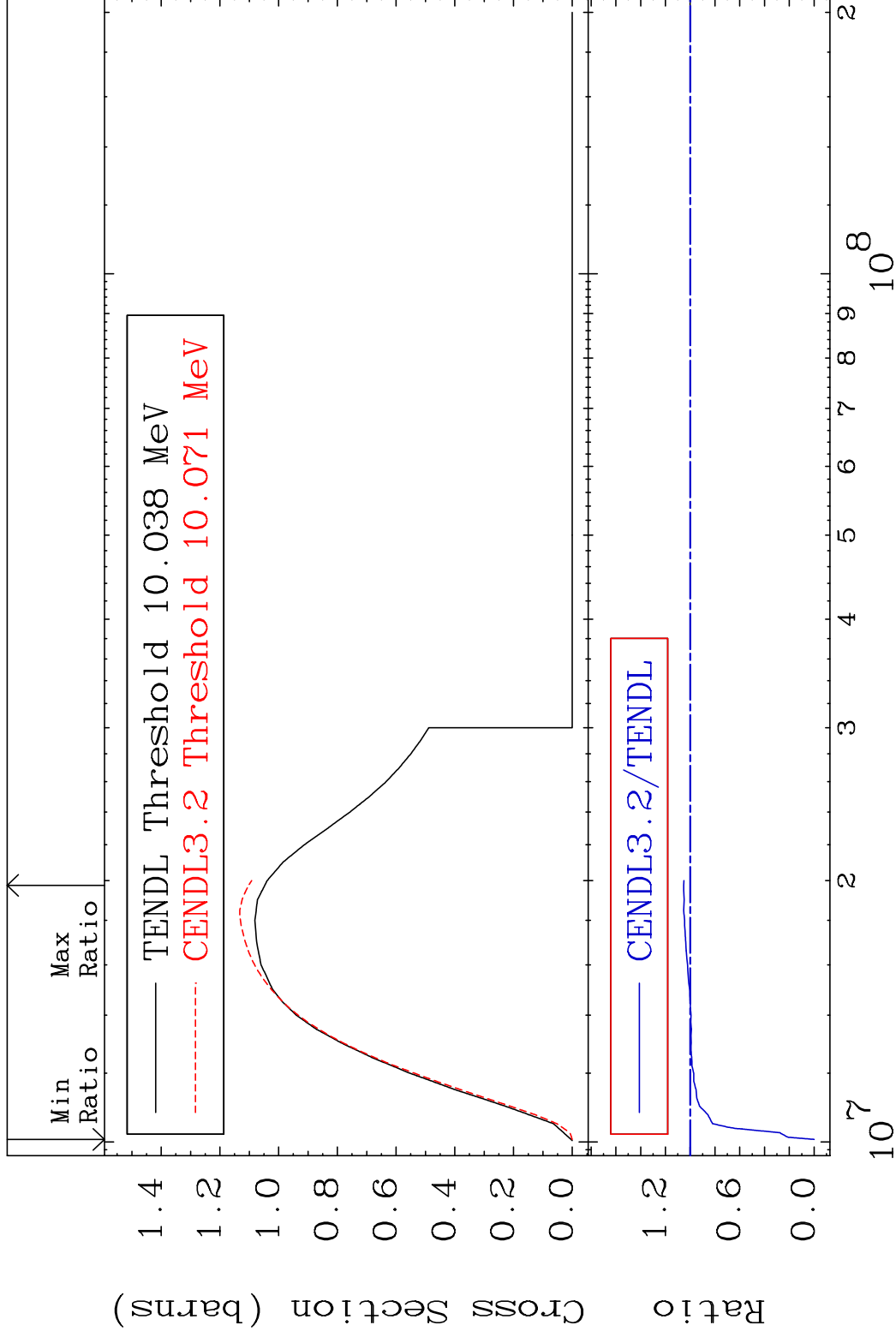
3 Incident Energy (eV) 34-Se-80

MAT 3443

(n,2n)

³⁴Se-80

Cross Section -100.0 To 5.278 %



4

Incident Energy (eV)

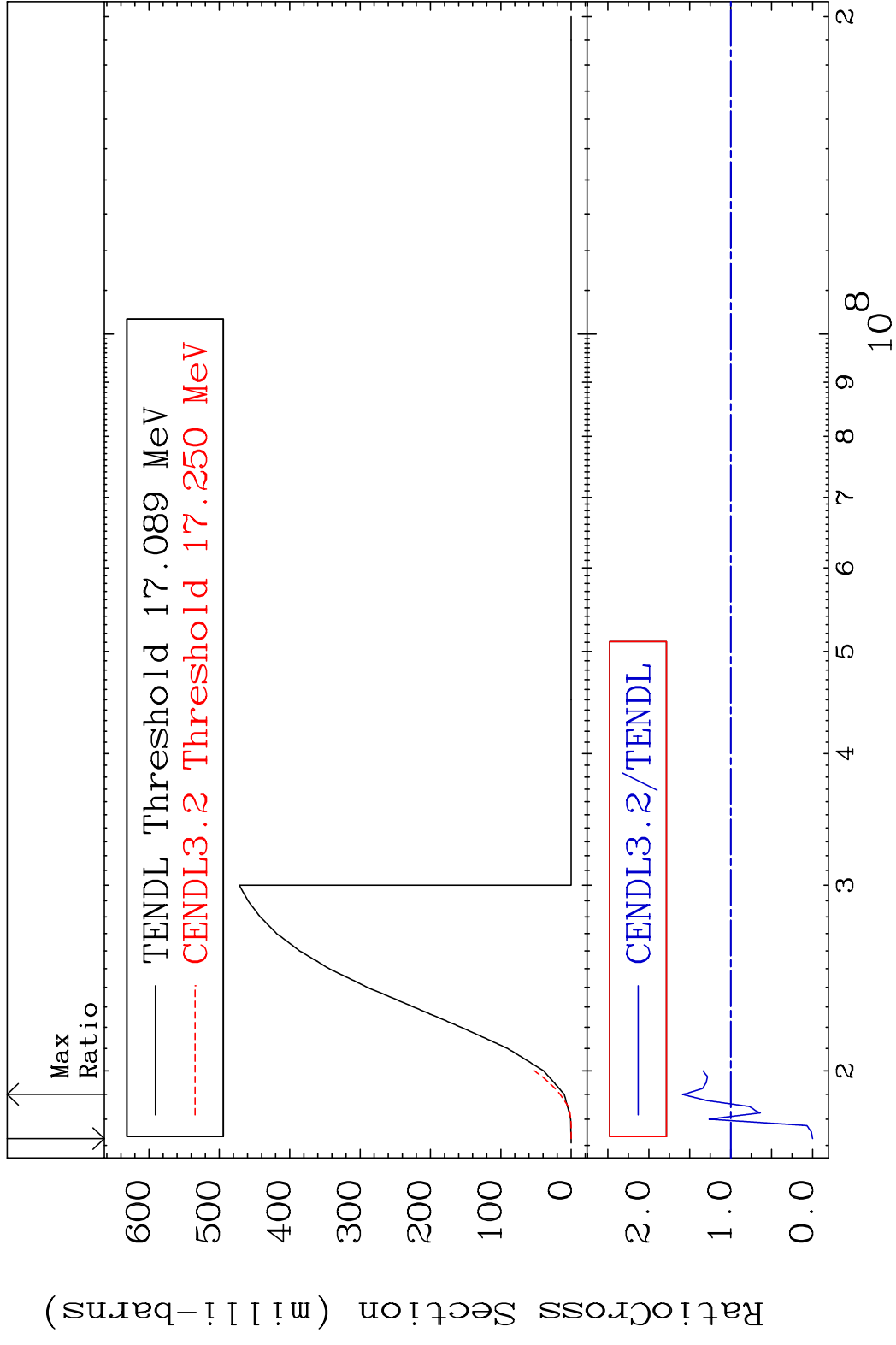
³⁴Se-80

MAT 3443

(n,3n)

³⁴Se-80

Cross Section -100.0 To 59.04 %

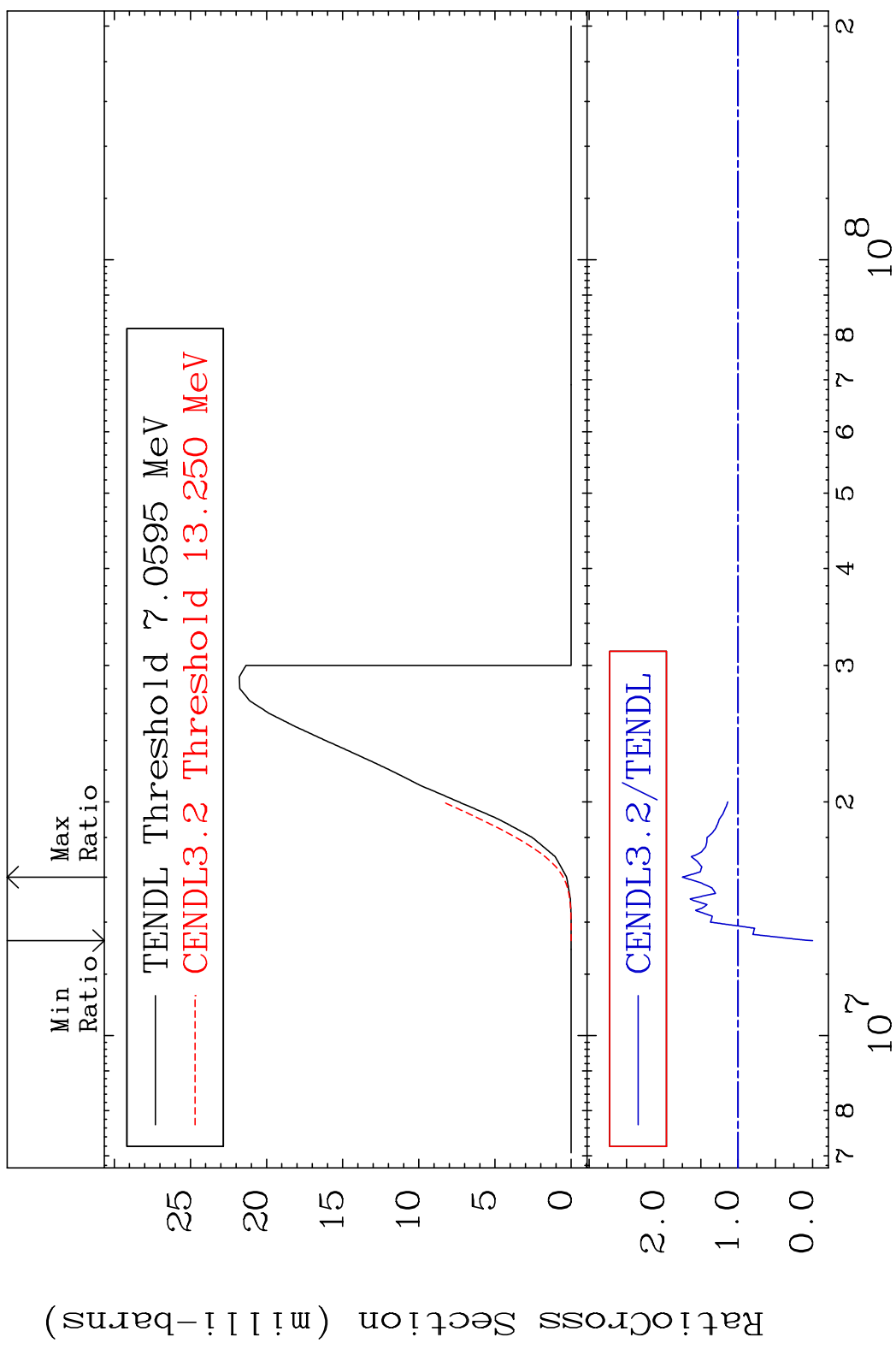


MAT 3443

(n, n') α

34-Se-80

Cross Section -100.0 To 74.90 %



6

Incident Energy (eV)

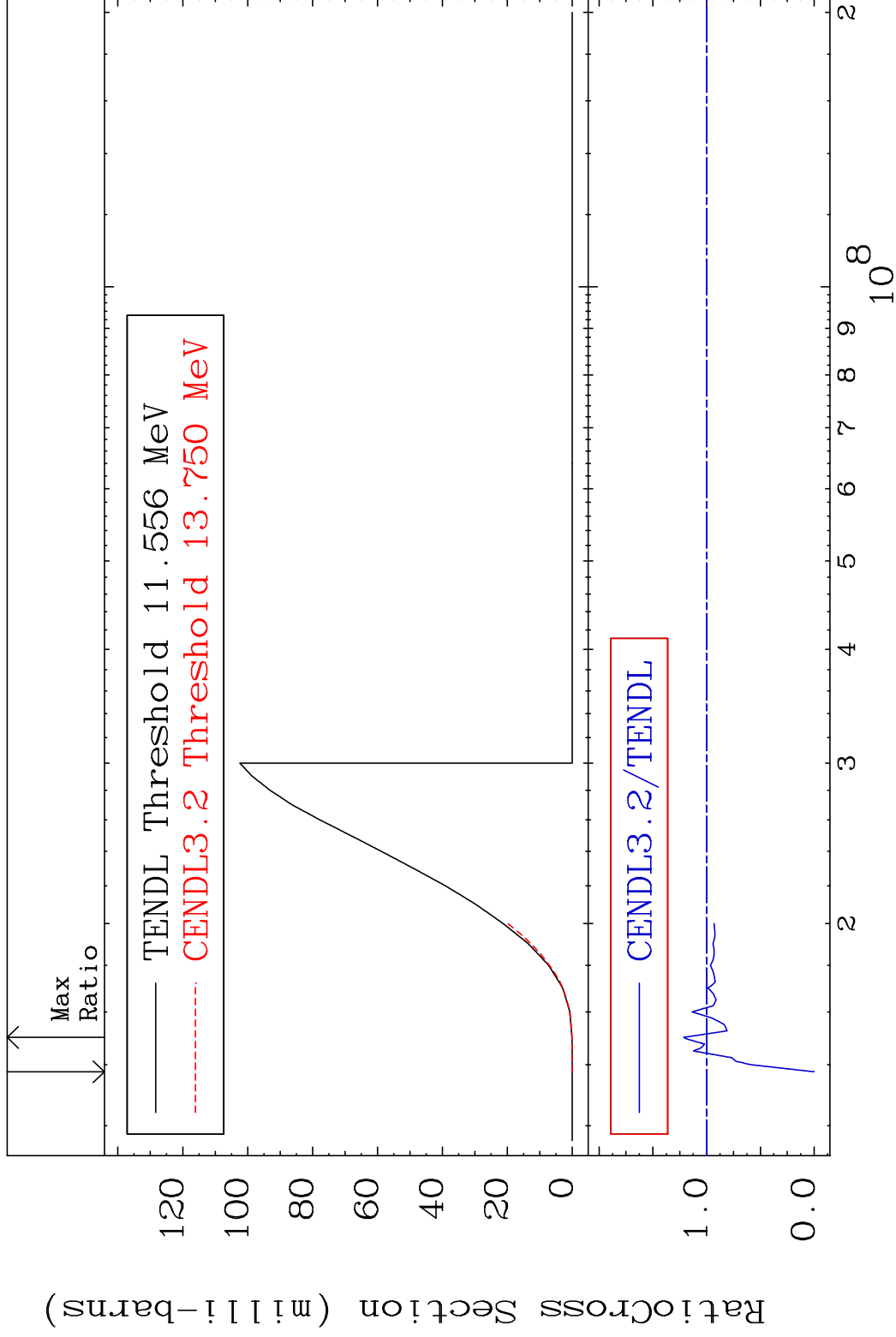
34-Se-80

MAT 3443

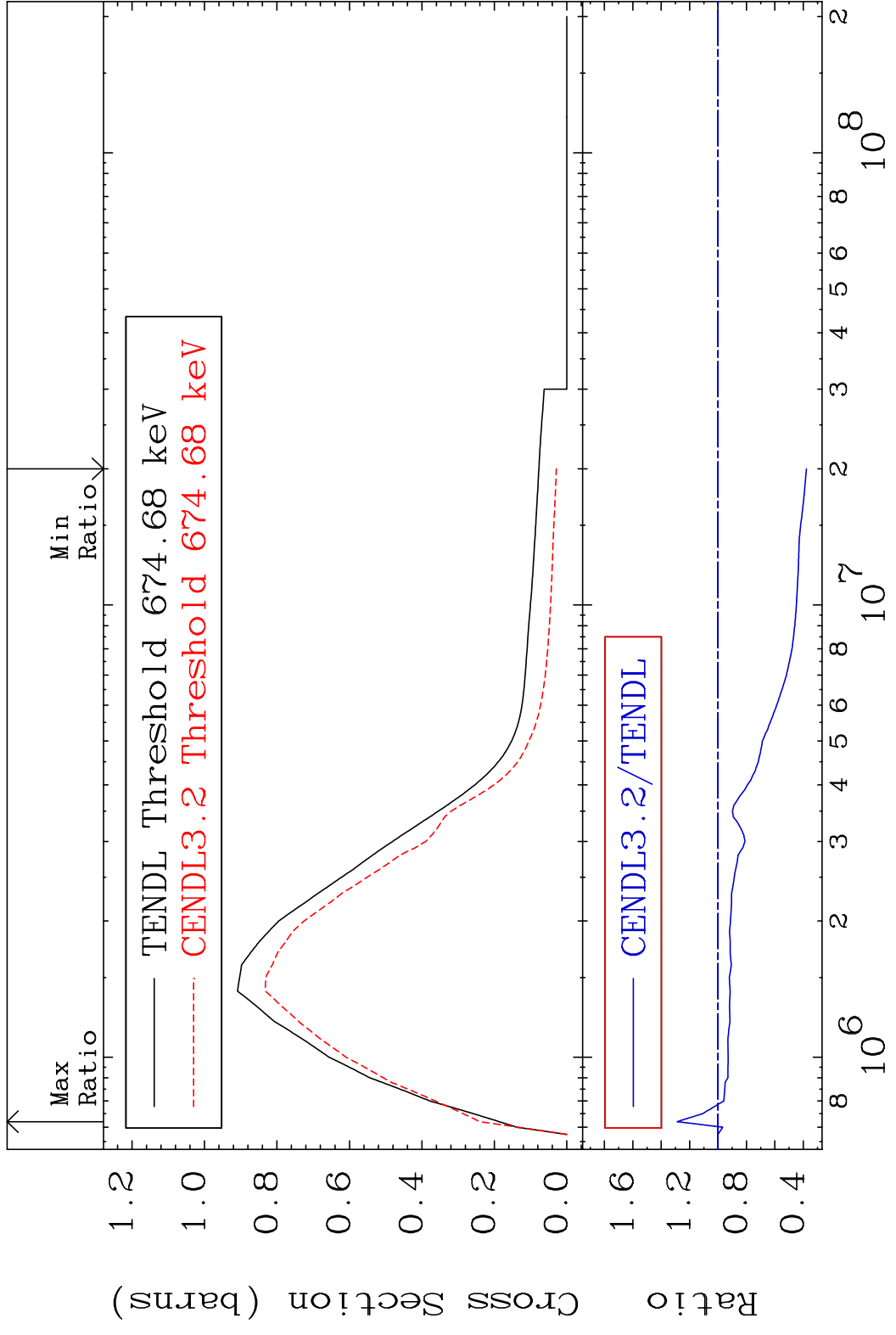
(n, n') p

³⁴Se-80

Cross Section -100.0 To 21.34 %

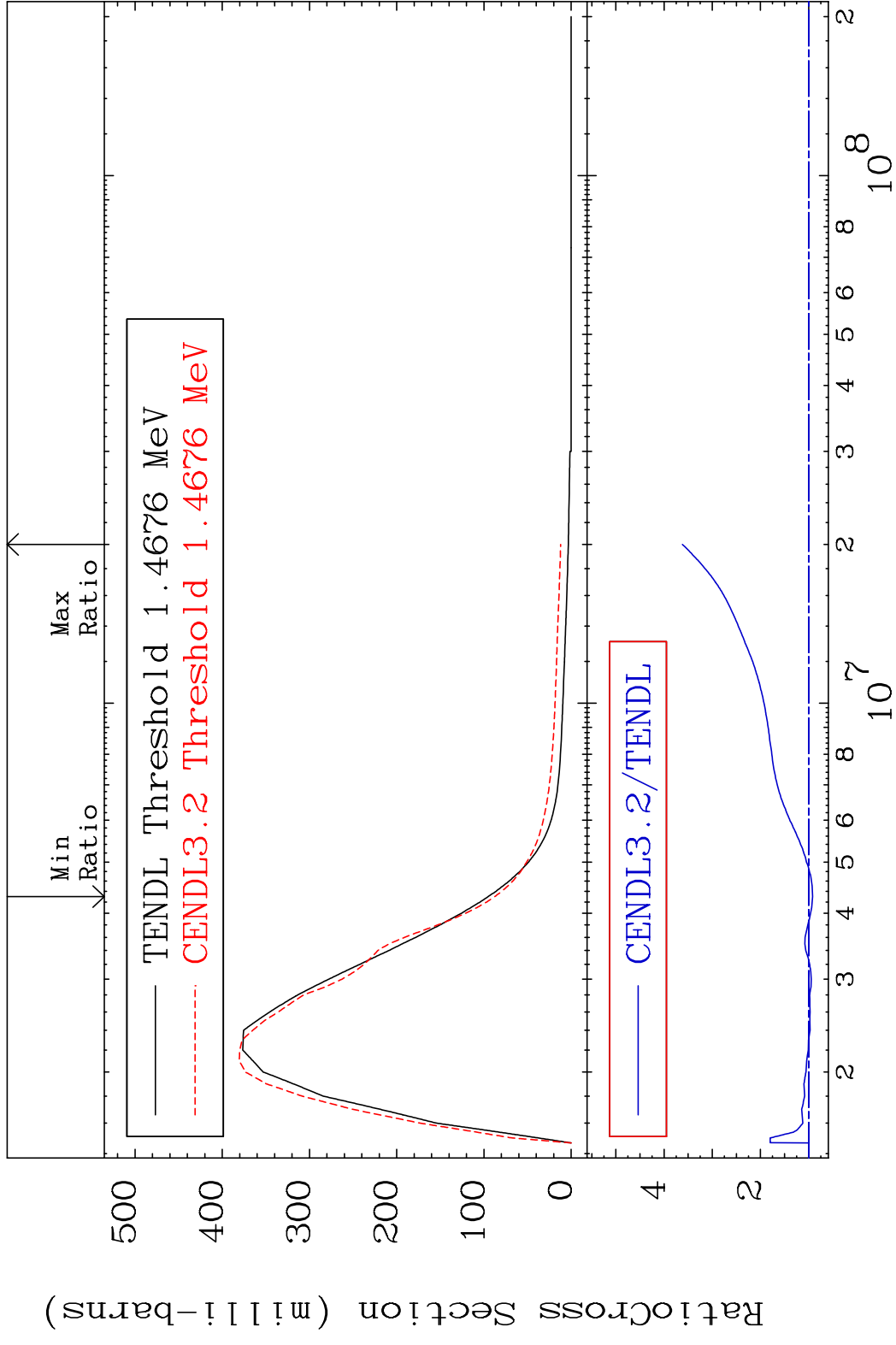


MAT 3443 MT= 51 (n, n') Level 34-Se-80
 Cross Section -62.22 To 28.77 %

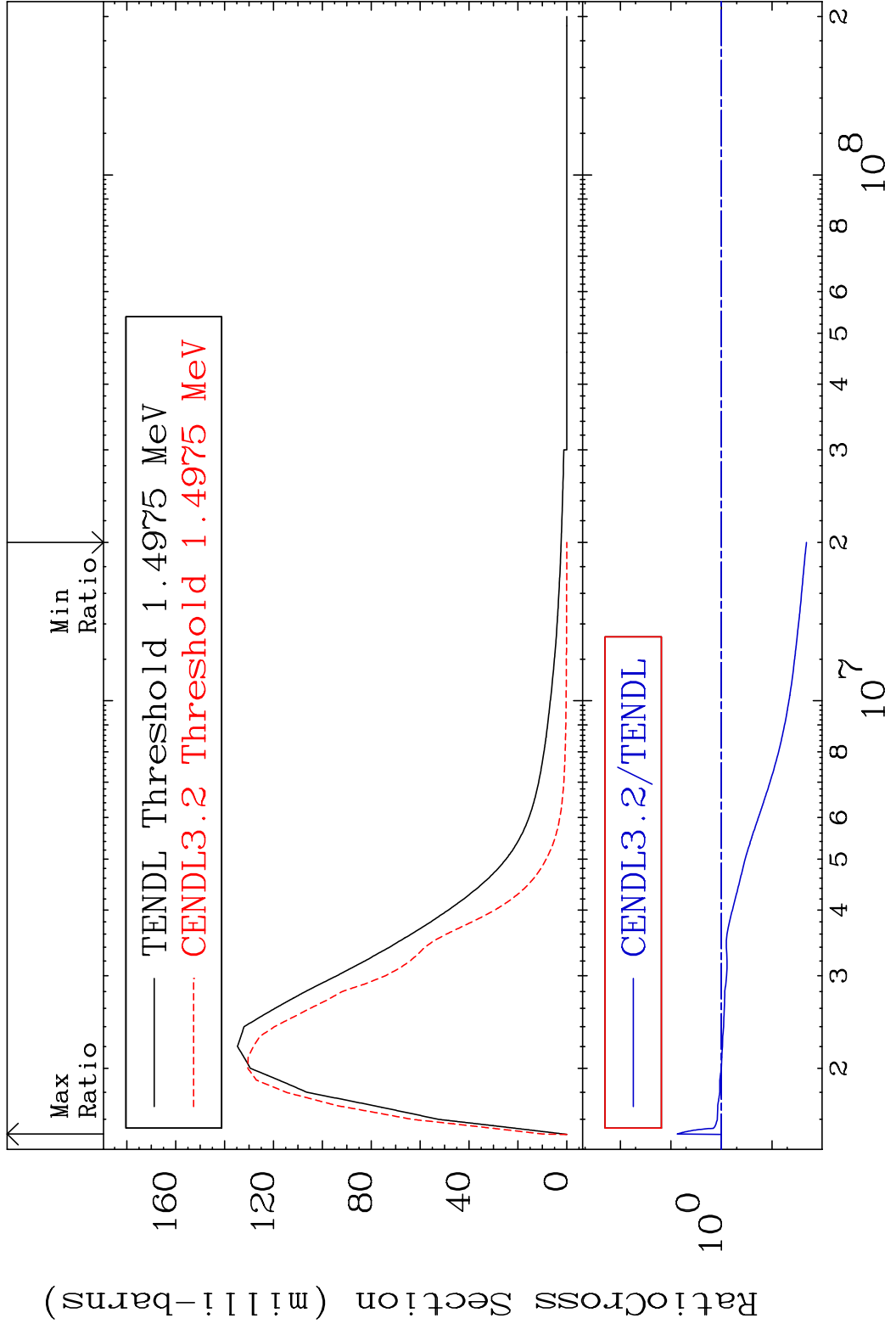


8 Incident Energy (eV) 34-Se-80

MAT 3443 MT= 52 (n, n') Level 34-Se-80
 Cross Section -8.077 To 262.1 %

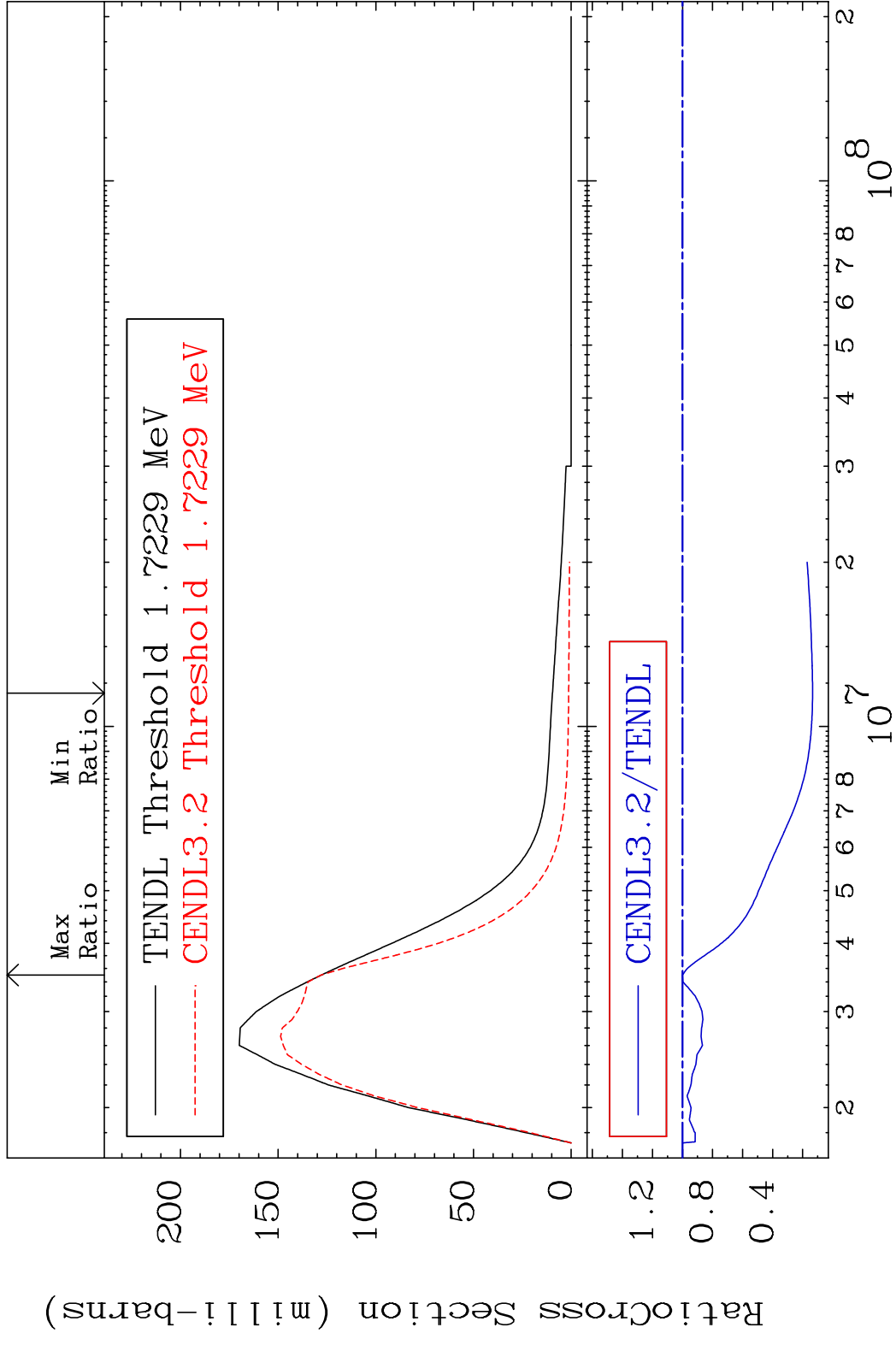


MAT 3443 MT= 53 (n,n') Level 34-Se-80
 Cross Section -97.92 To 652.3 %

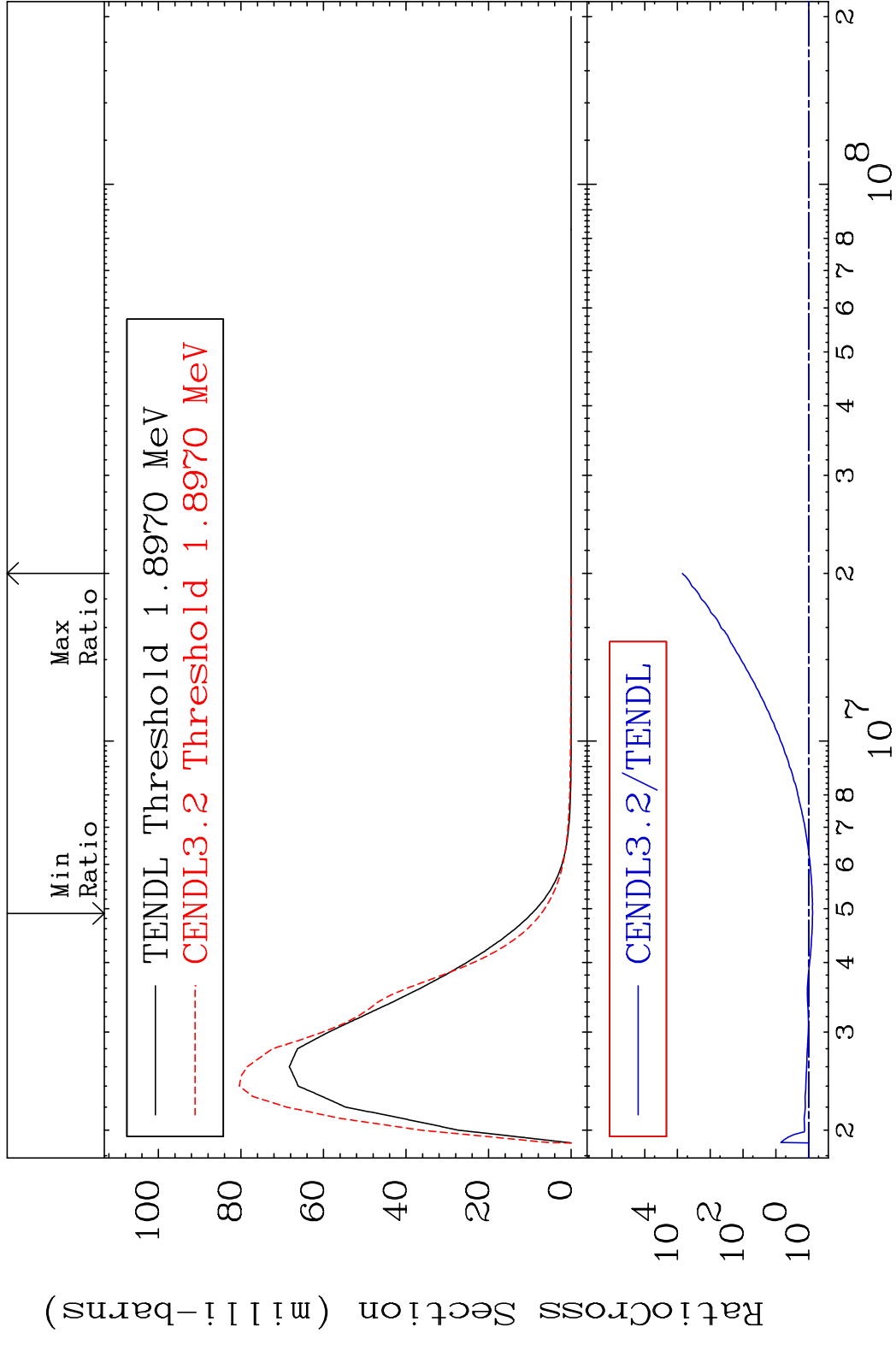


10 10 34-Se-80

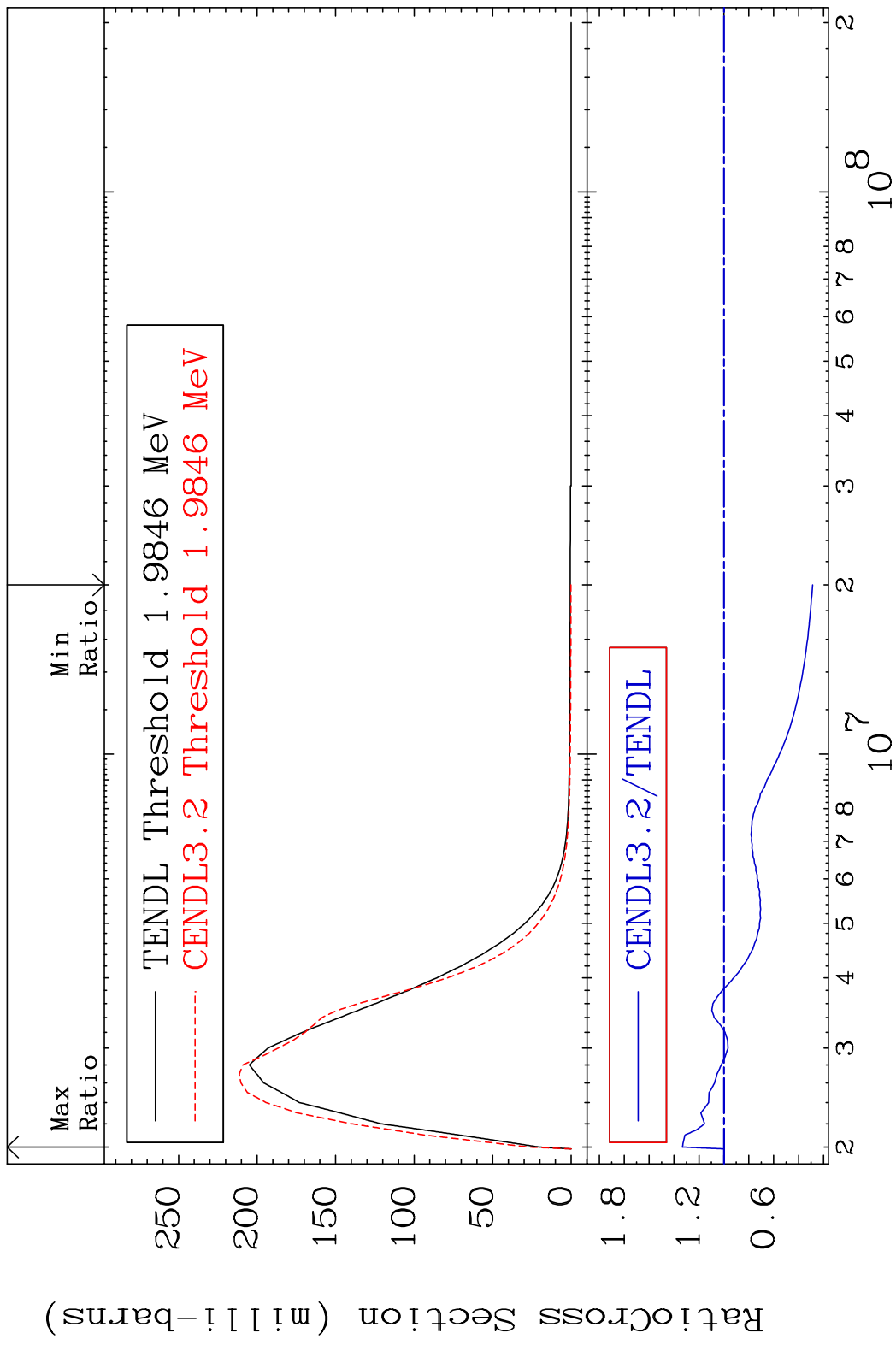
MAT 3443 MT= 54 (n, n') Level 34-Se-80
 Cross Section -86.58 To 0.106 %



MAT 3443 MT= 55 (n, n') Level 34-Se-80
 Cross Section -24.09 To 9999. %



MAT 3443 MT= 56 (n, n') Level 34-Se-80
 Cross Section -71.21 To 33.32 %

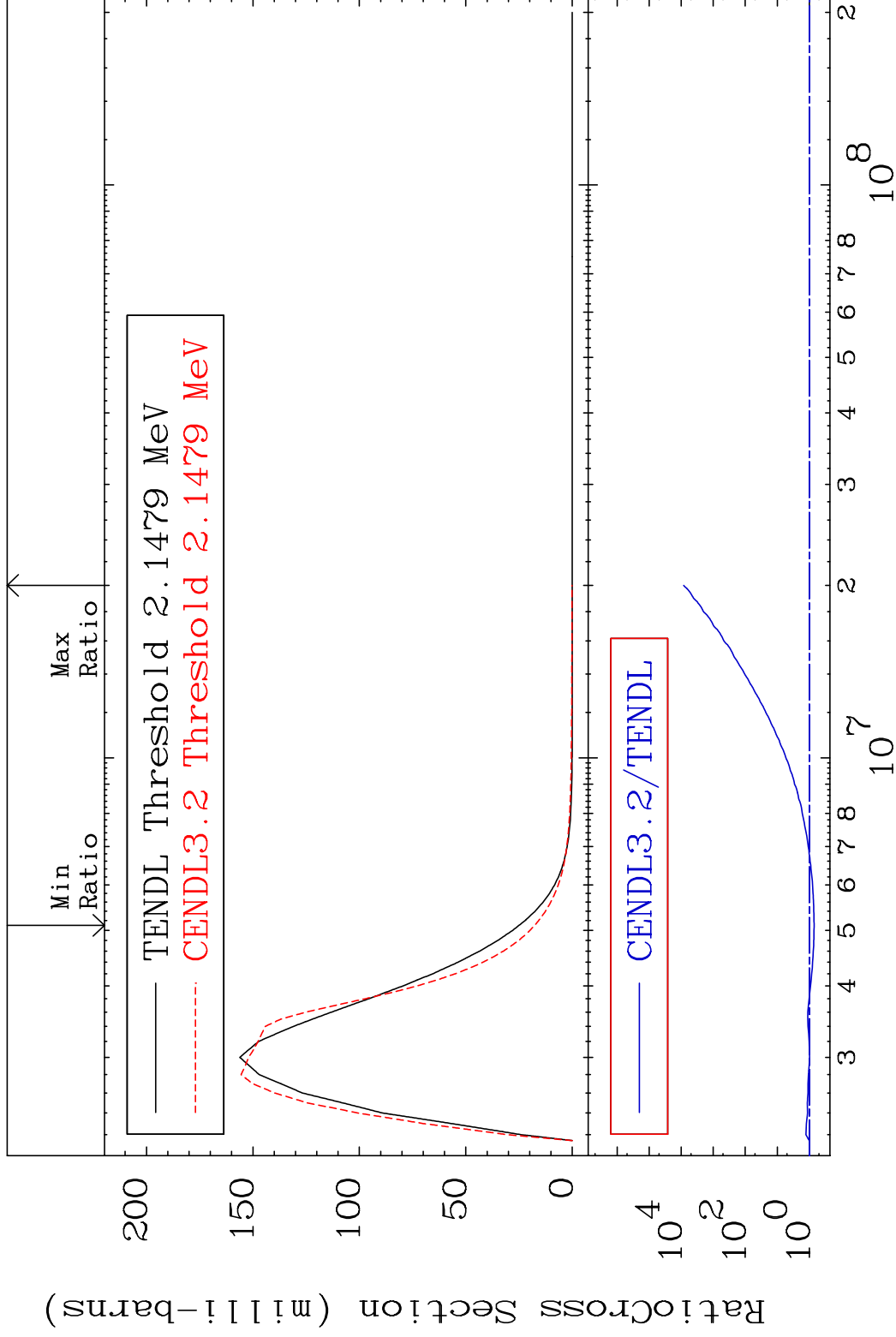


MAT 3443

MT= 57 (n, n') Level

34-Se-80

Cross Section -29.51 To 9999. %

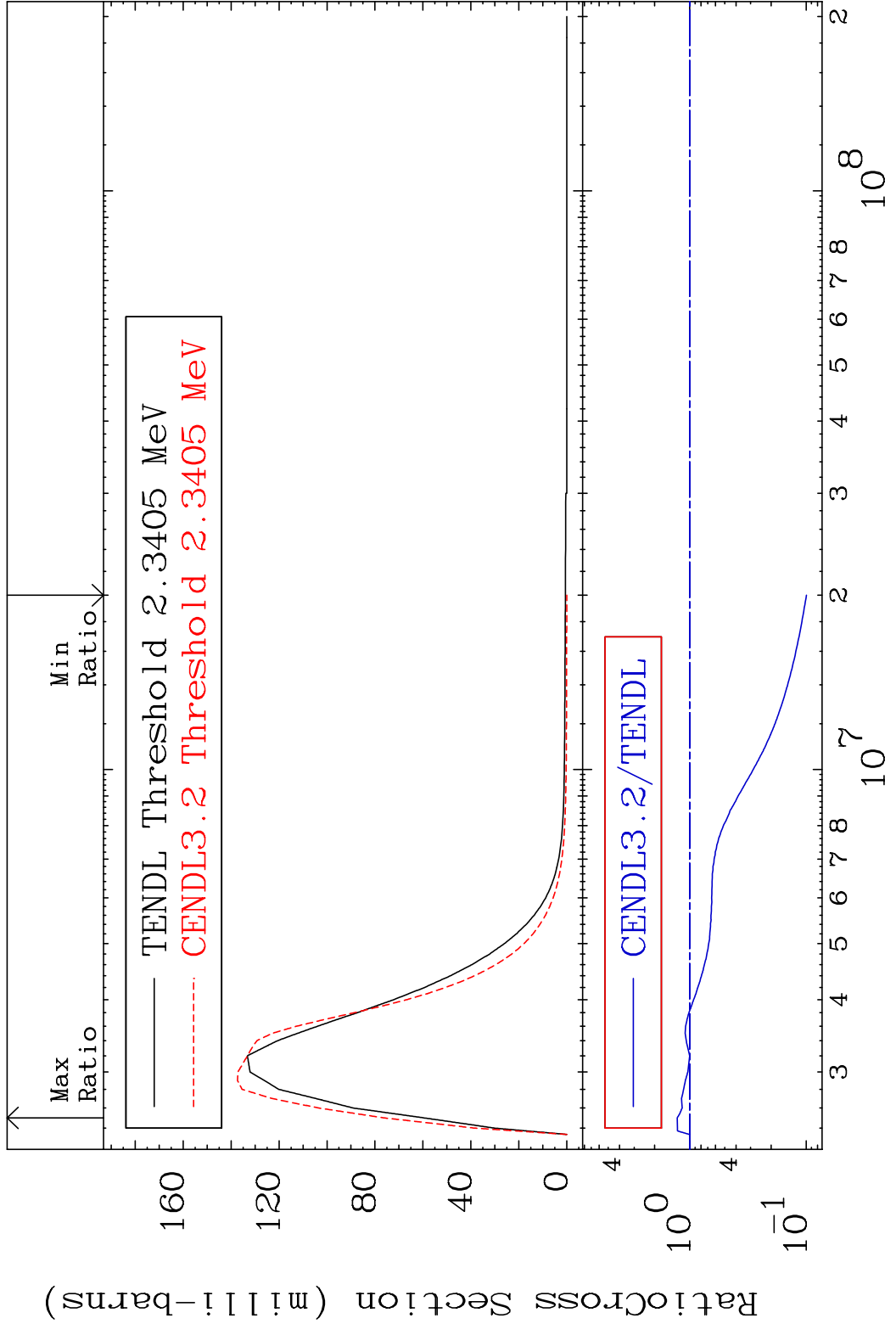


14

Incident Energy (eV)

34-Se-80

MAT 3443 MT= 58 (n,n') Level 34-Se-80
 Cross Section -90.05 To 28.05 %

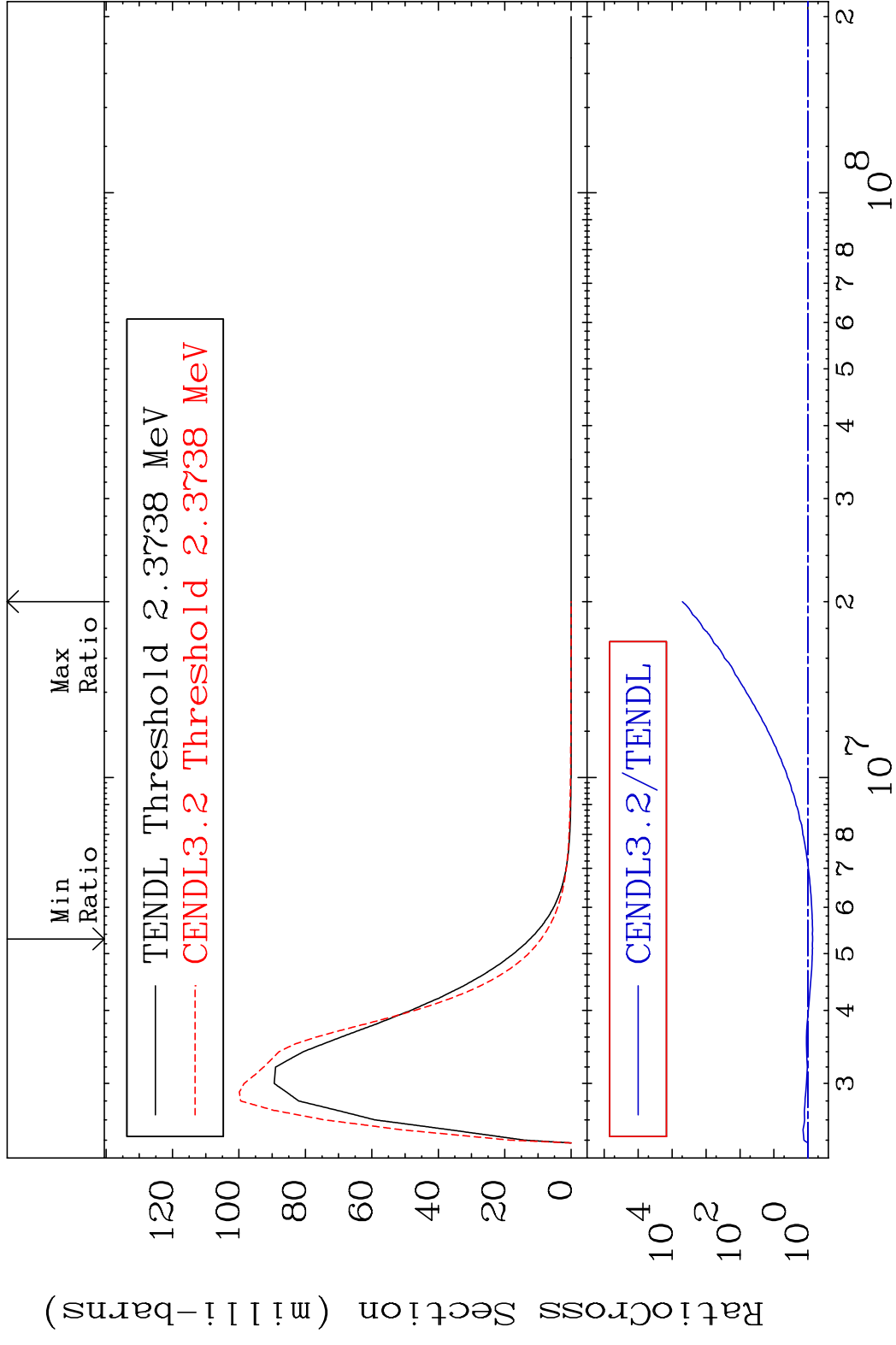


MAT 3443

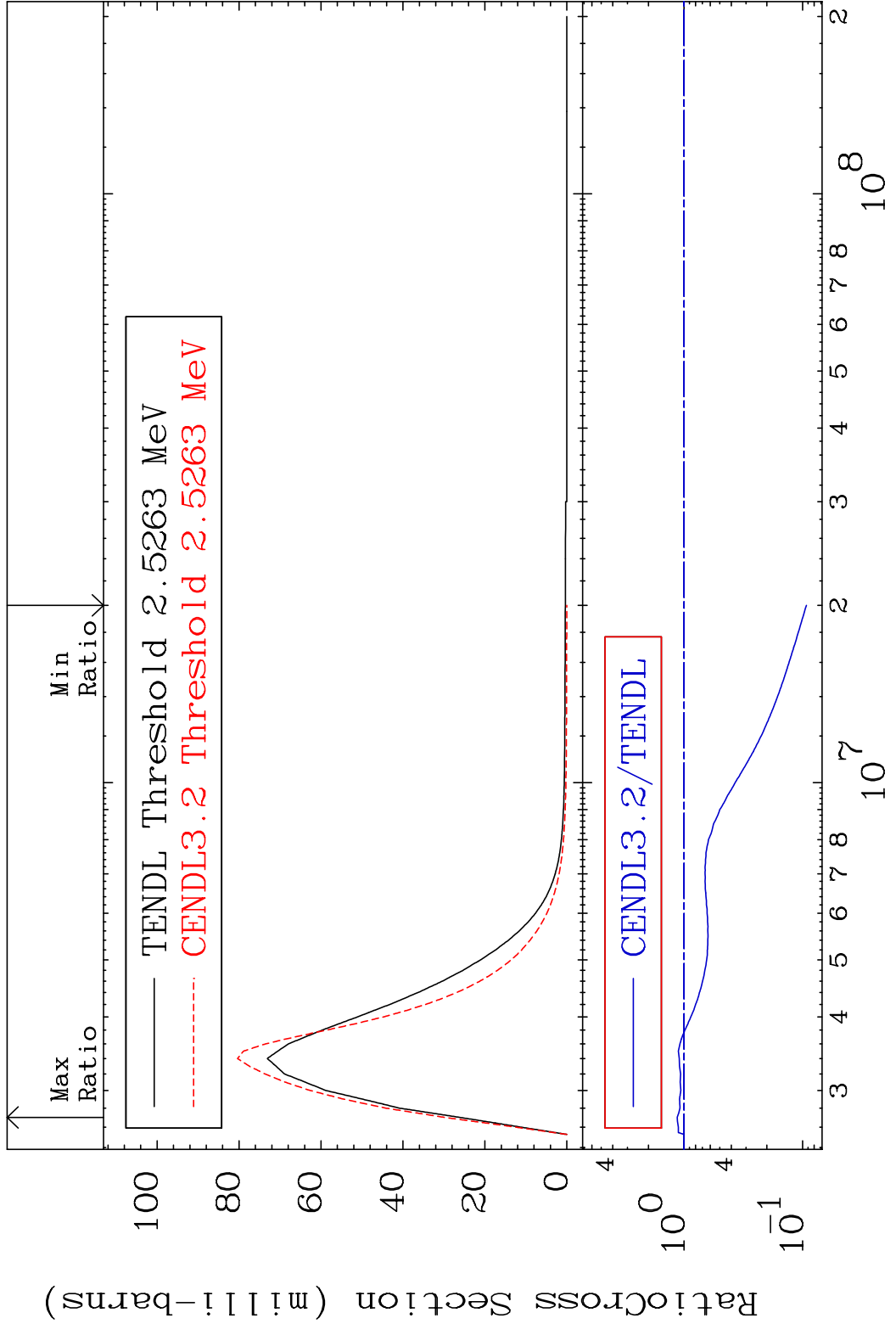
MT= 59 (n, n') Level

34-Se-80

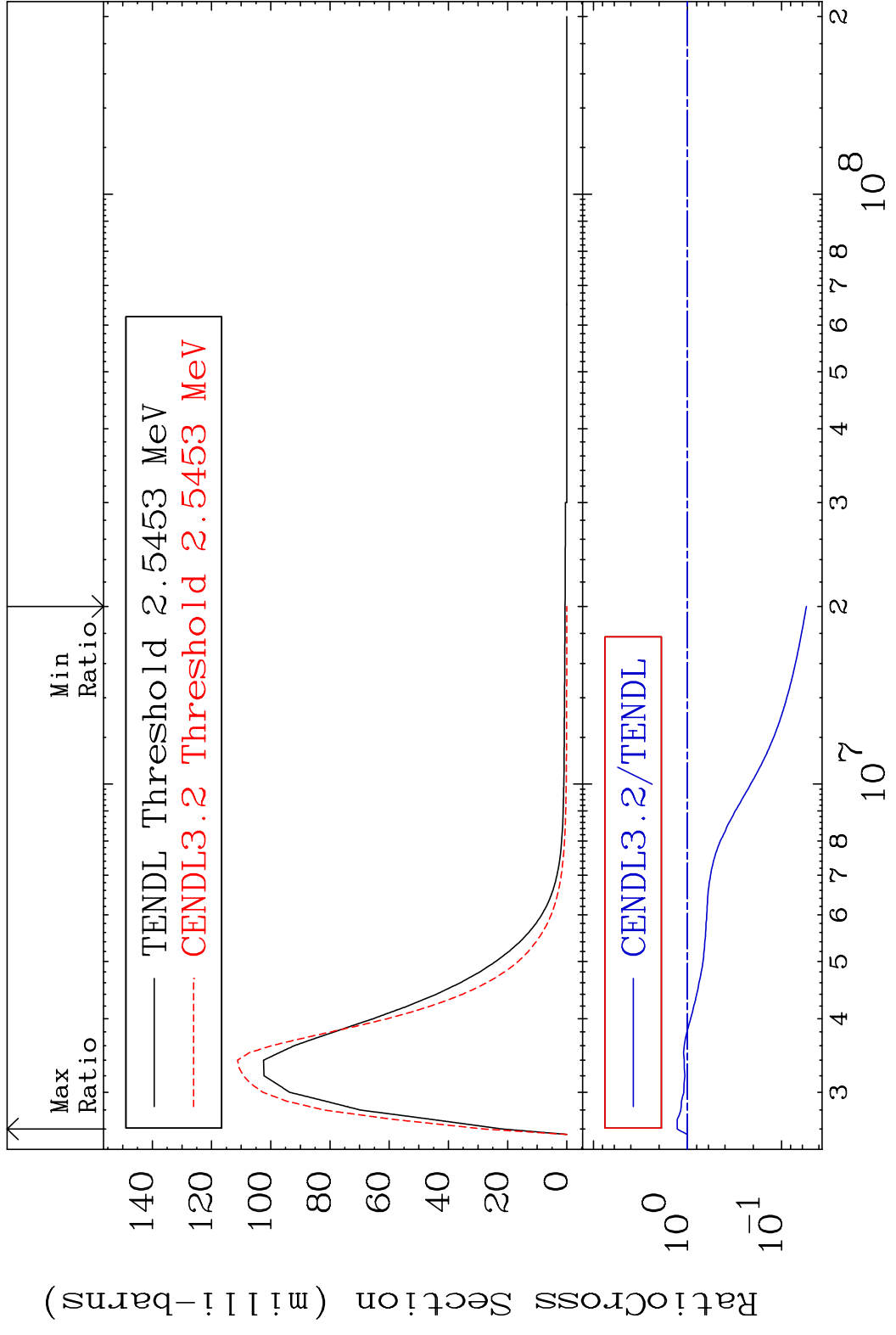
Cross Section -27.03 To 9999. %



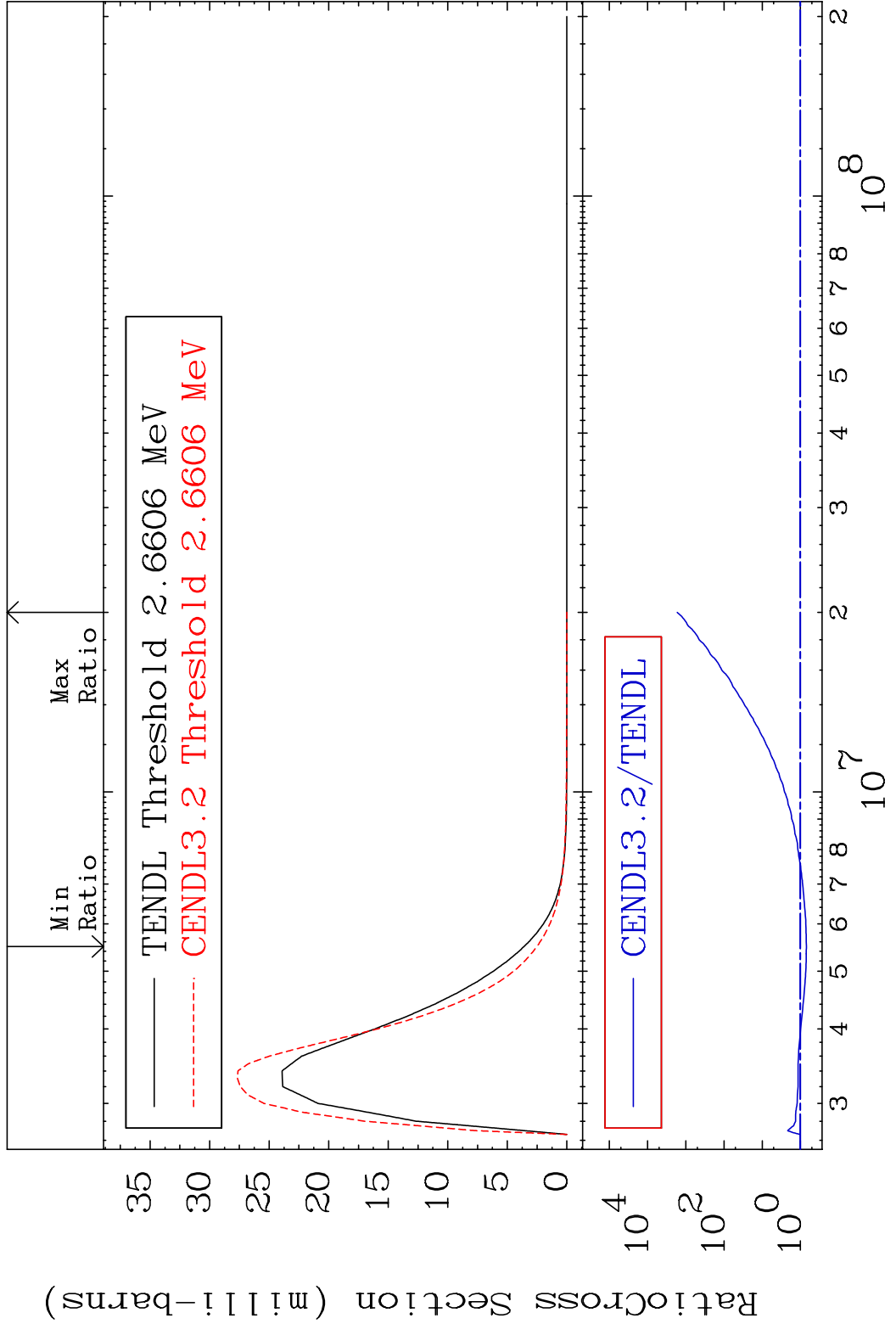
MAT 3443 MT= 60 (n, n') Level 34-Se-80
 Cross Section -90.72 To 14.27 %



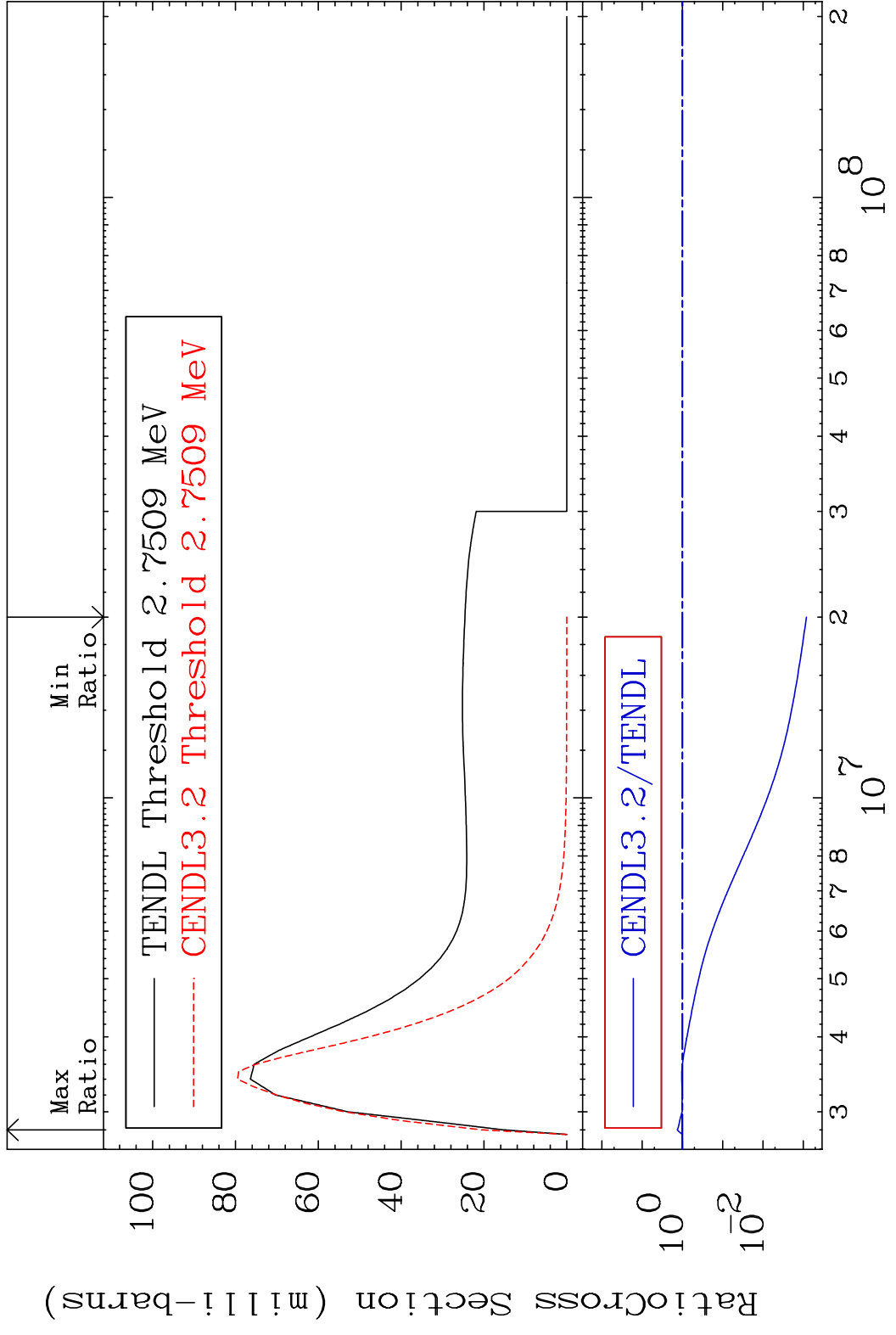
MAT 3443 MT= 61 (n, n') Level 34-Se-80
 Cross Section -94.56 To 28.75 %



MAT 3443 MT= 62 (n,n') Level 34-Se-80
 Cross Section -30.21 To 9999. %

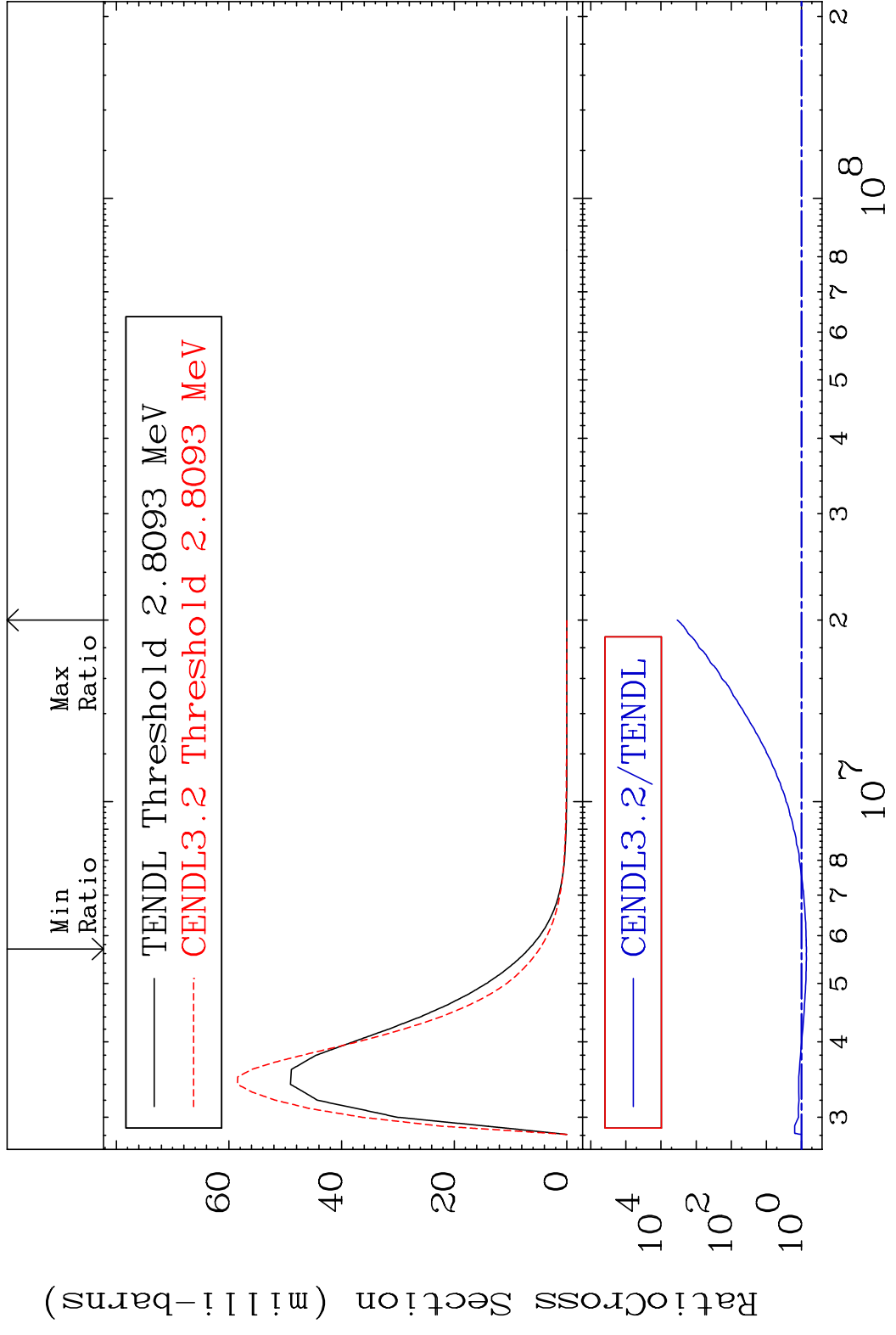


MAT 3443 MT= 63 (n, n') Level 34-Se-80
 Cross Section -99.92 To 34.73 %

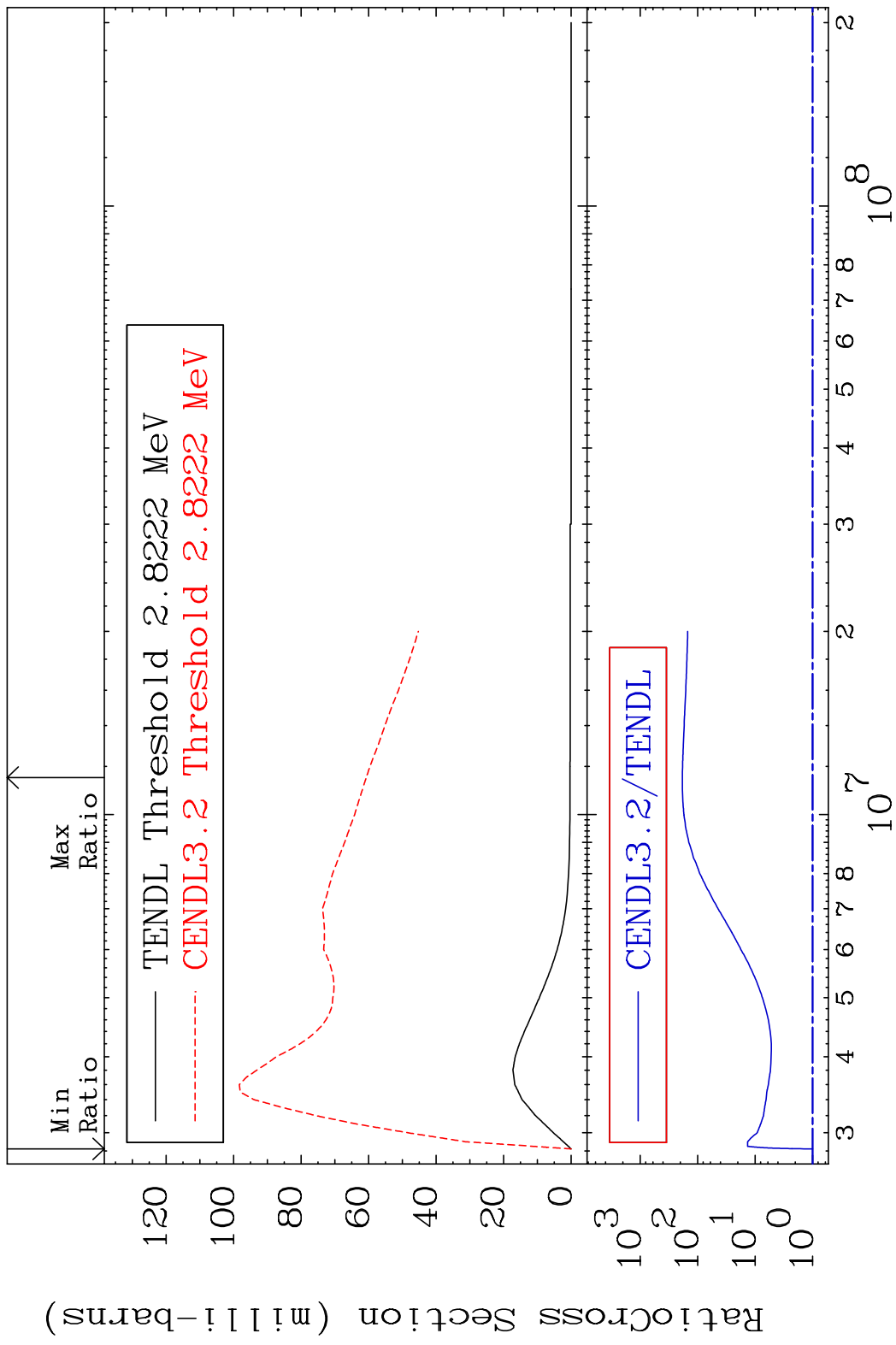


20 34-Se-80

MAT 3443 MT= 64 (n, n') Level 34-Se-80
 Cross Section -28.05 To 9999. %



MAT 3443 MT= 65 (n,n') Level 34-Se-80
 Cross Section 0.000 To 9999. %

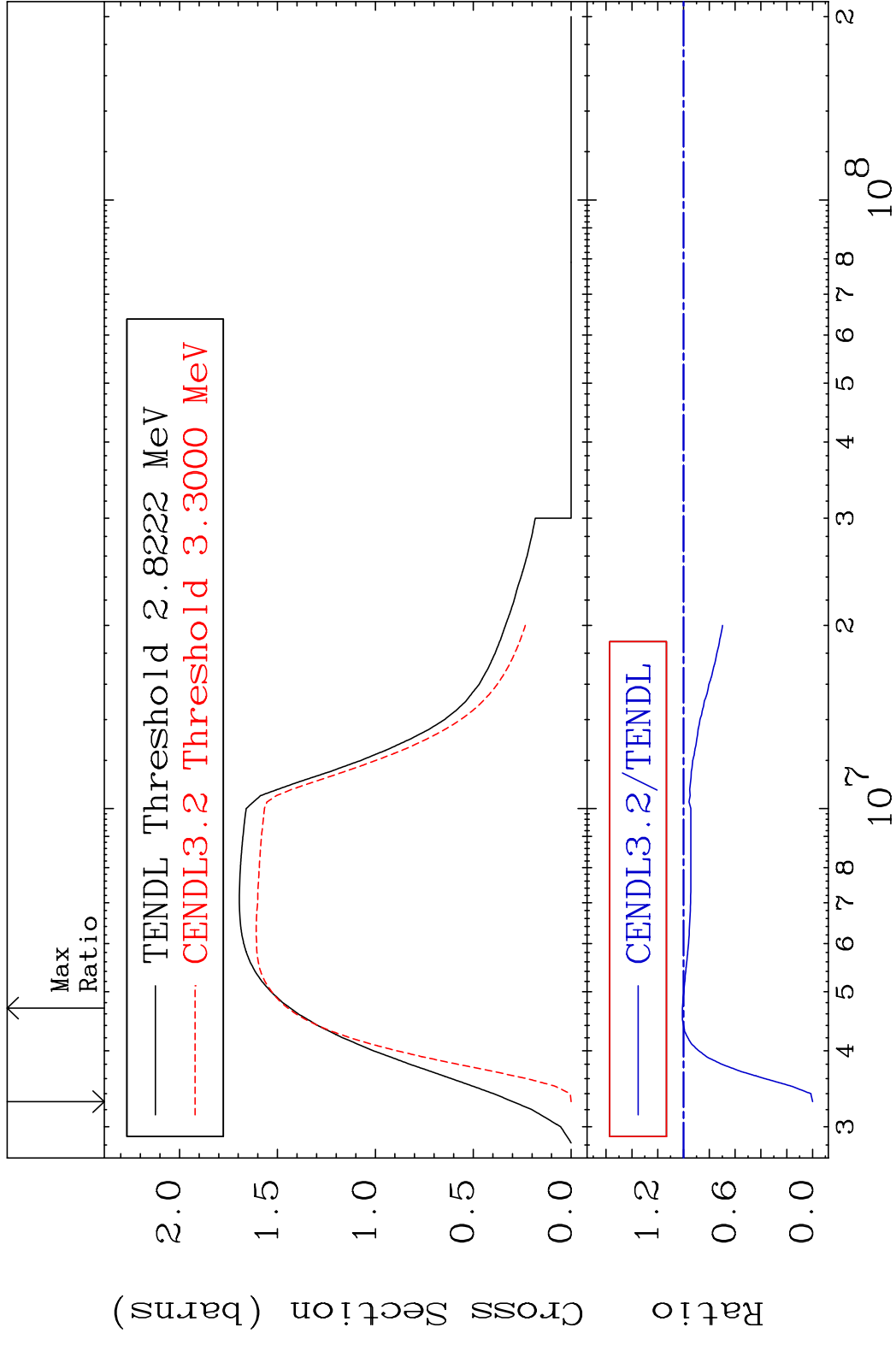


MAT 3443

(n,n') Continuum

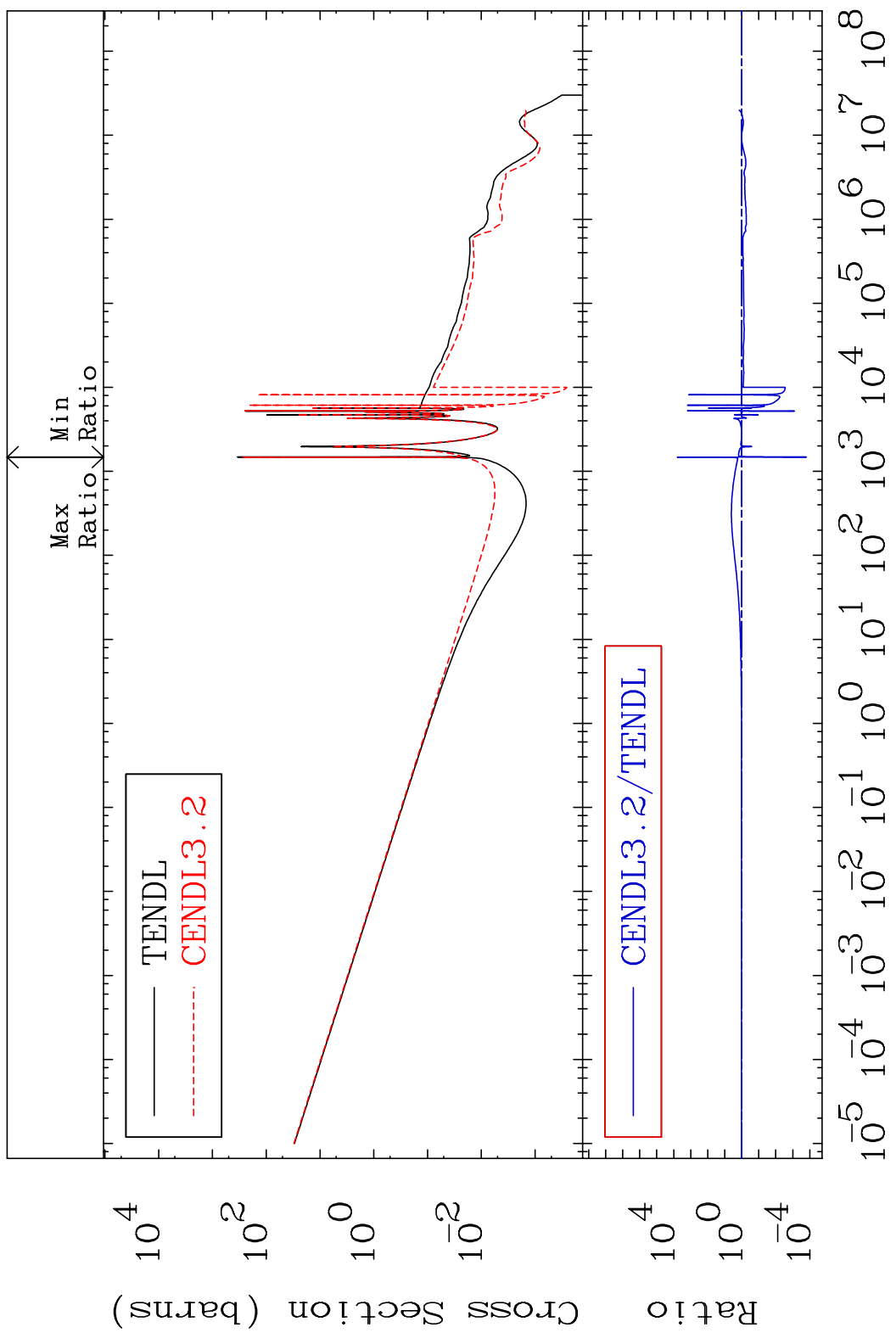
³⁴Se-80

Cross Section -100.0 To 0.897 %



MAT 3443

(n, γ)
Cross Section -99.98 To 9999. %
34-Se-80



24

Incident Energy (eV)

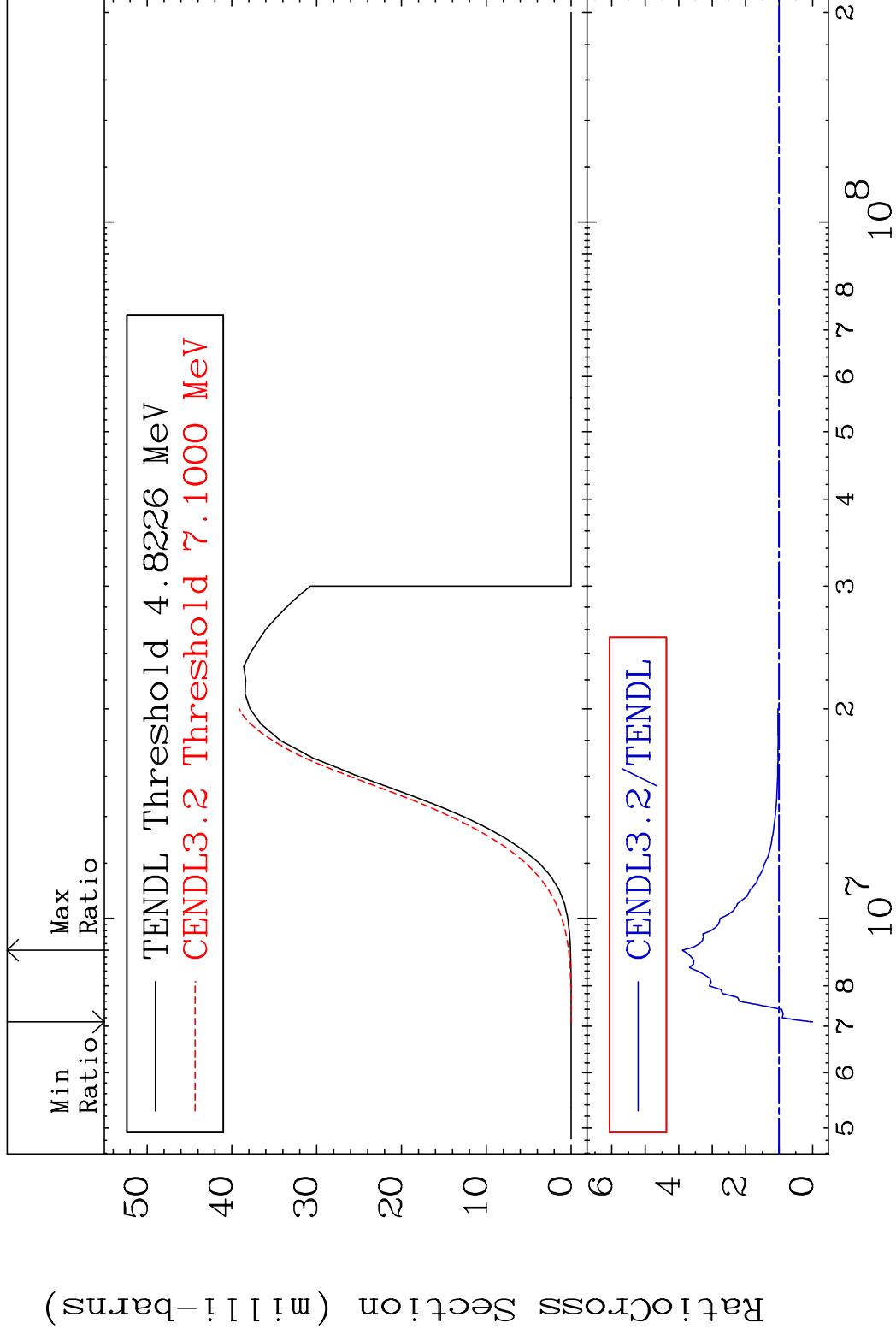
34-Se-80

MAT 3443

(n, p)

³⁴Se-80

Cross Section -100.0 To 289.1 %



25

Incident Energy (eV)

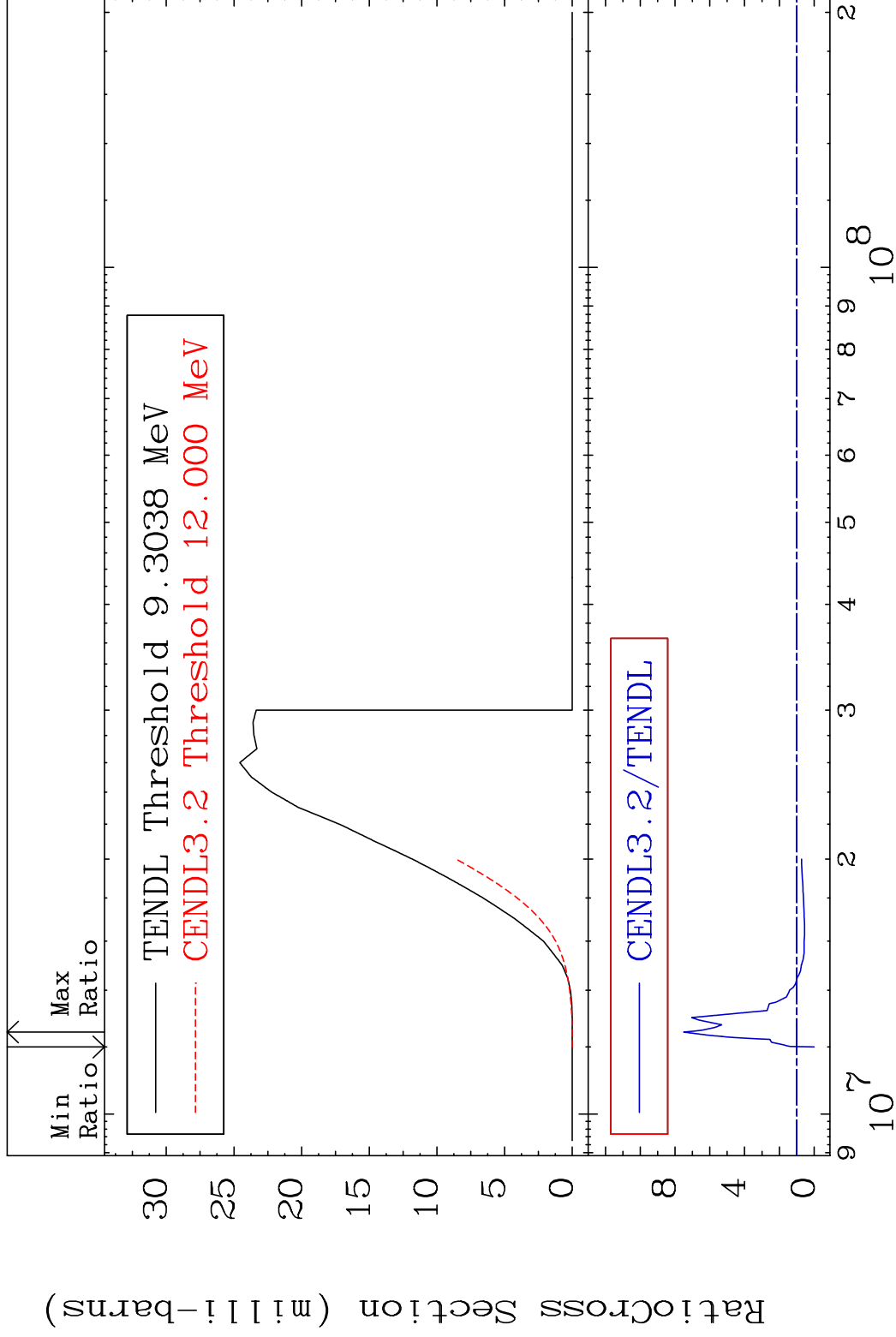
³⁴Se-80

MAT 3443

(n, d)

³⁴Se-80

Cross Section -100.0 To 650.5 %



26

Incident Energy (eV)

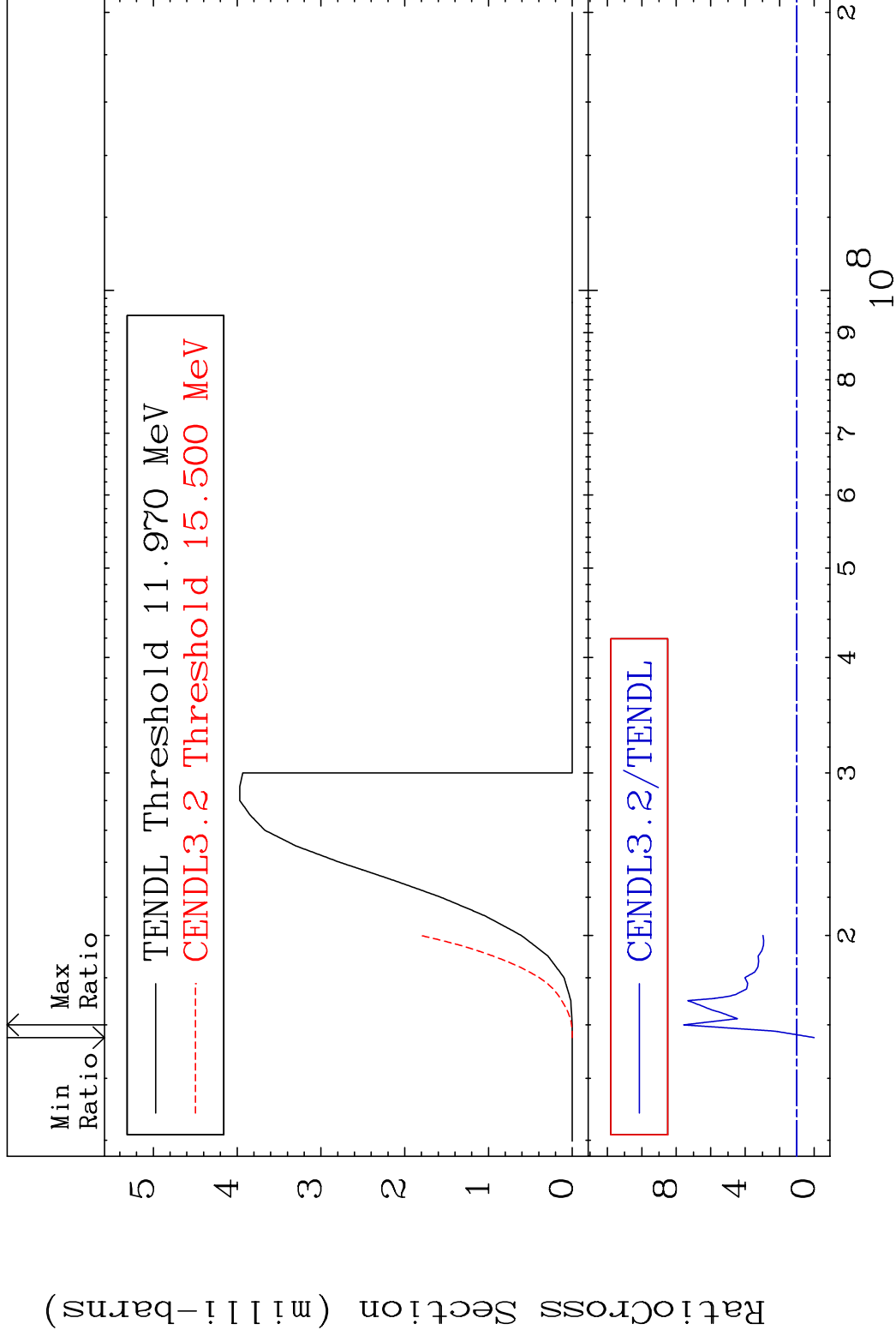
³⁴Se-80

MAT 3443

(n, t)

³⁴Se-80

Cross Section -100.0 To 657.1 %



27

Incident Energy (eV)

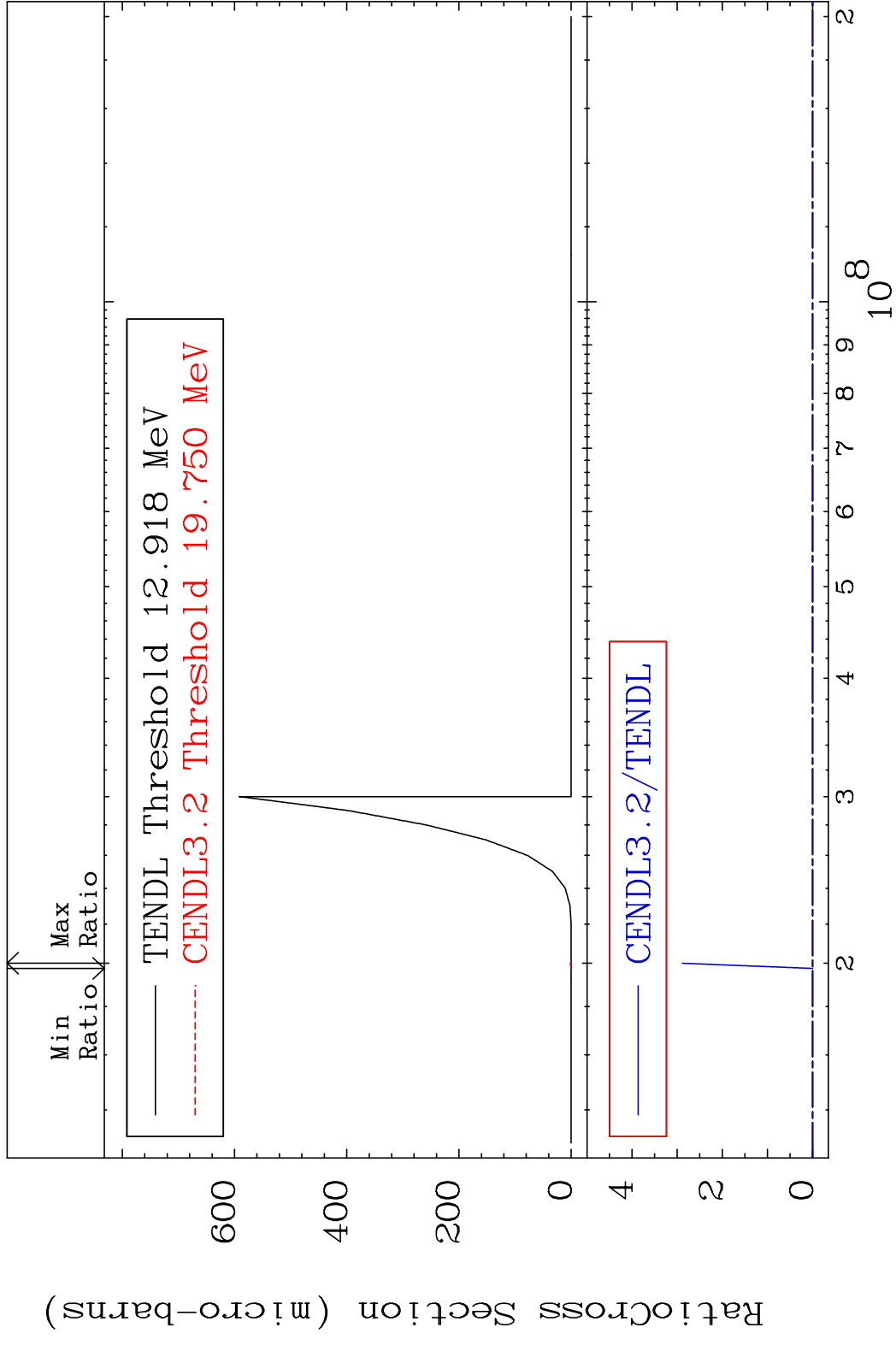
³⁴Se-80

MAT 3443

(n, He-3)

34-Se-80

Cross Section -100.0 To 9999. %

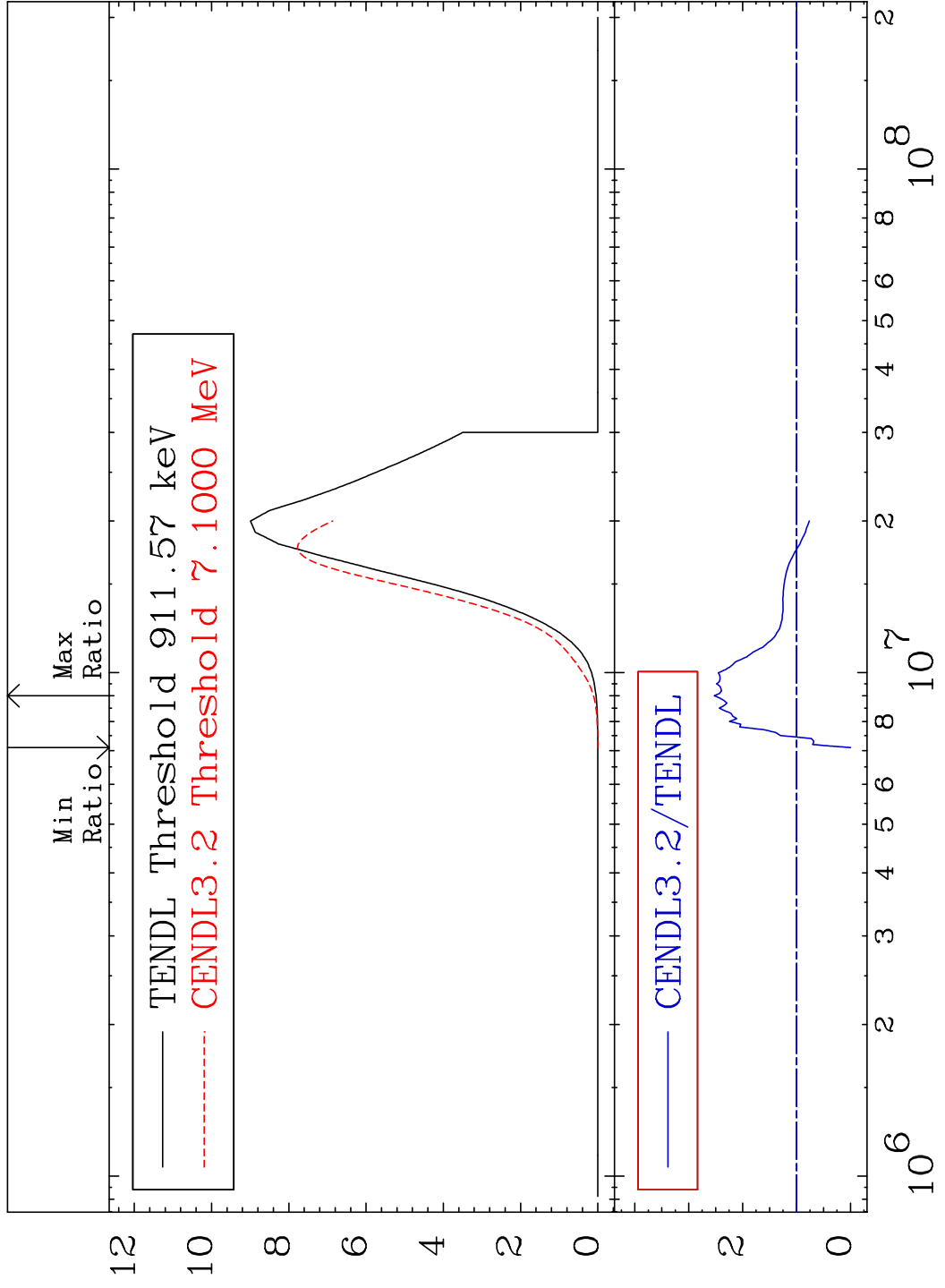


MAT 3443

(n, α)
Cross Section -100.0 To 152.7 %

³⁴Se-80

RatioCross Section (milli-barns)



29

Incident Energy (eV)

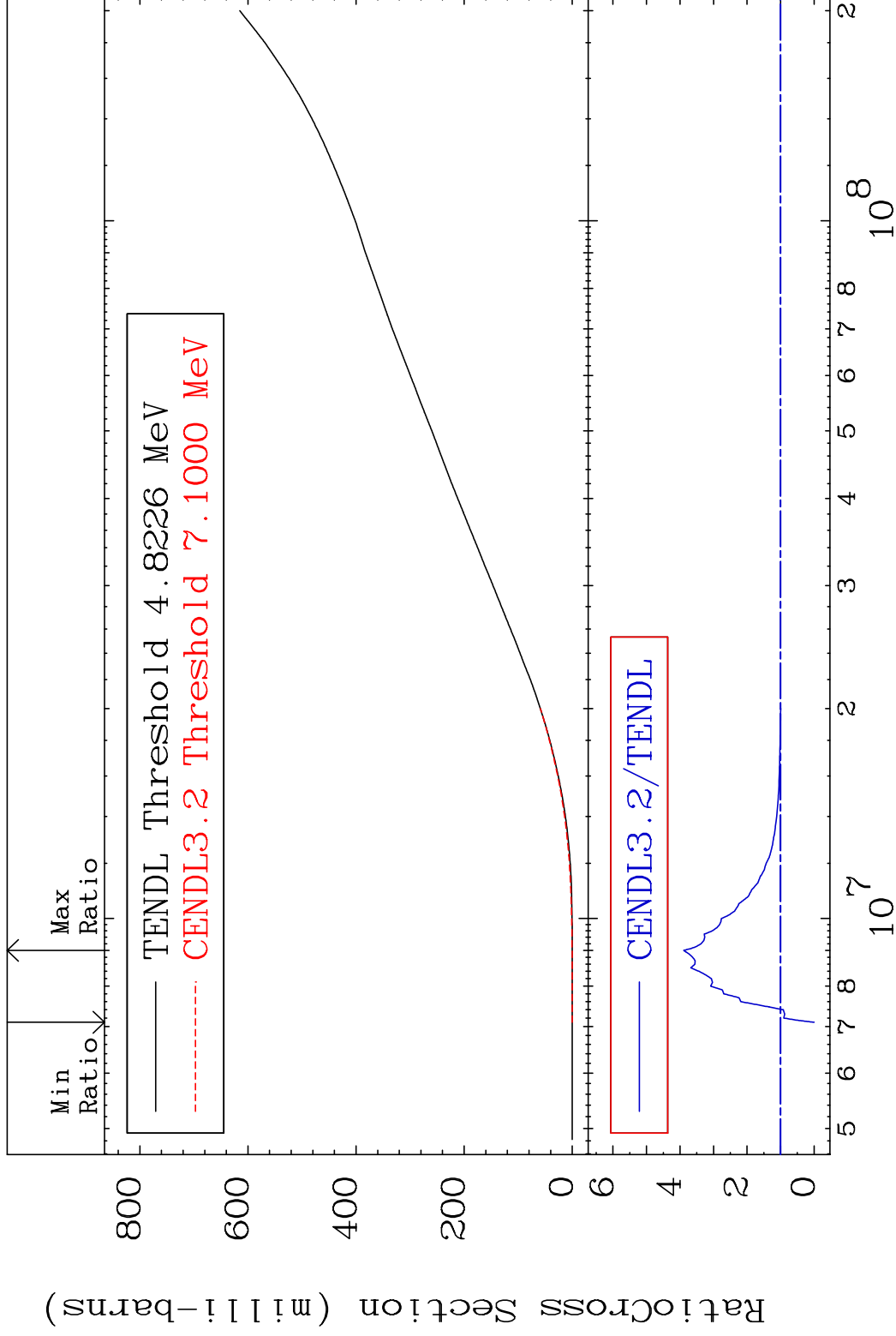
³⁴Se-80

MAT 3443

Hydrogen Production

³⁴Se-80

Cross Section -100.0 To 289.1 %

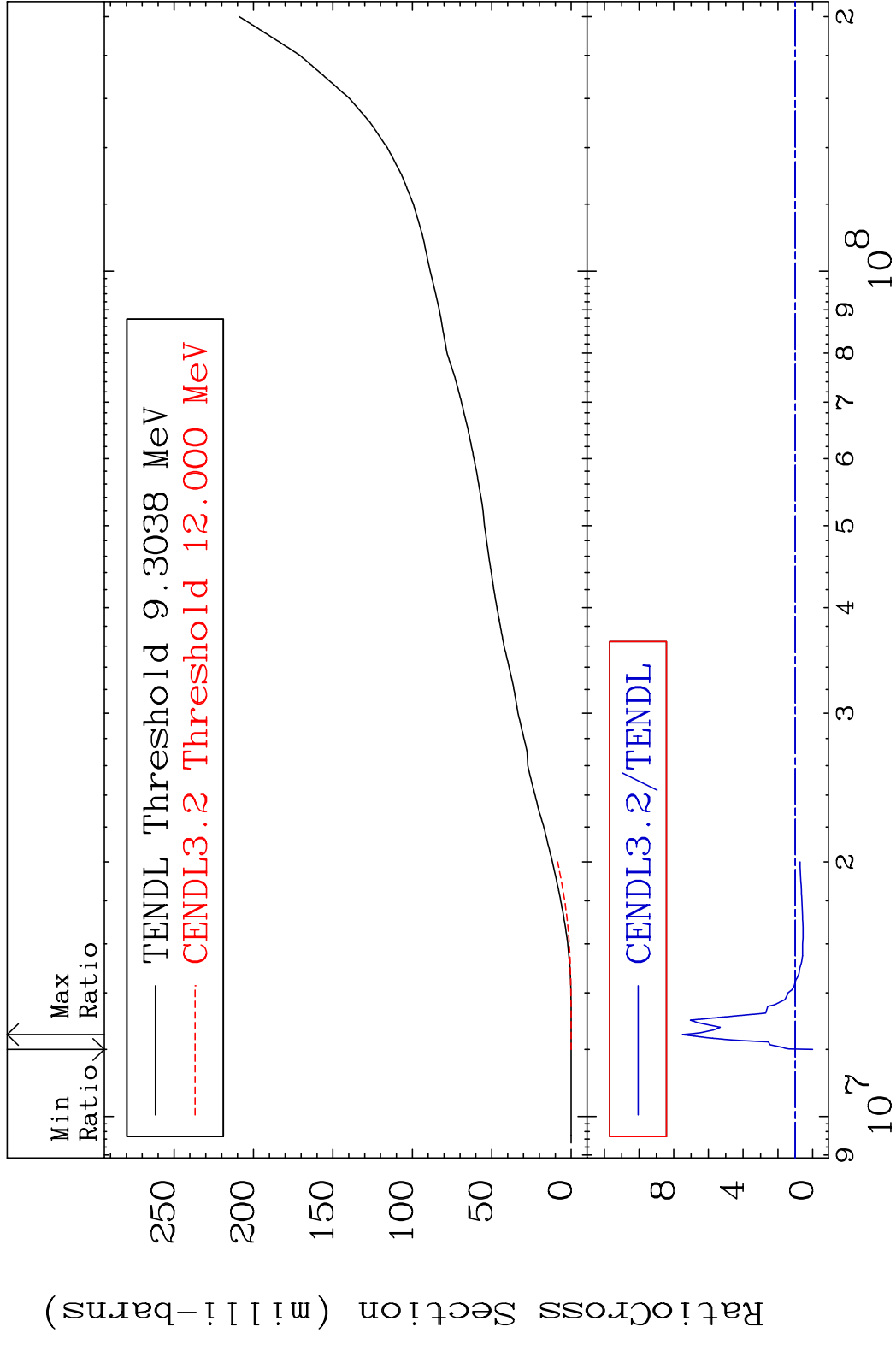


30

Incident Energy (eV)

³⁴Se-80

MAT 3443 Deuterium Production 34-Se-80
 Cross Section -100.0 To 650.5 %



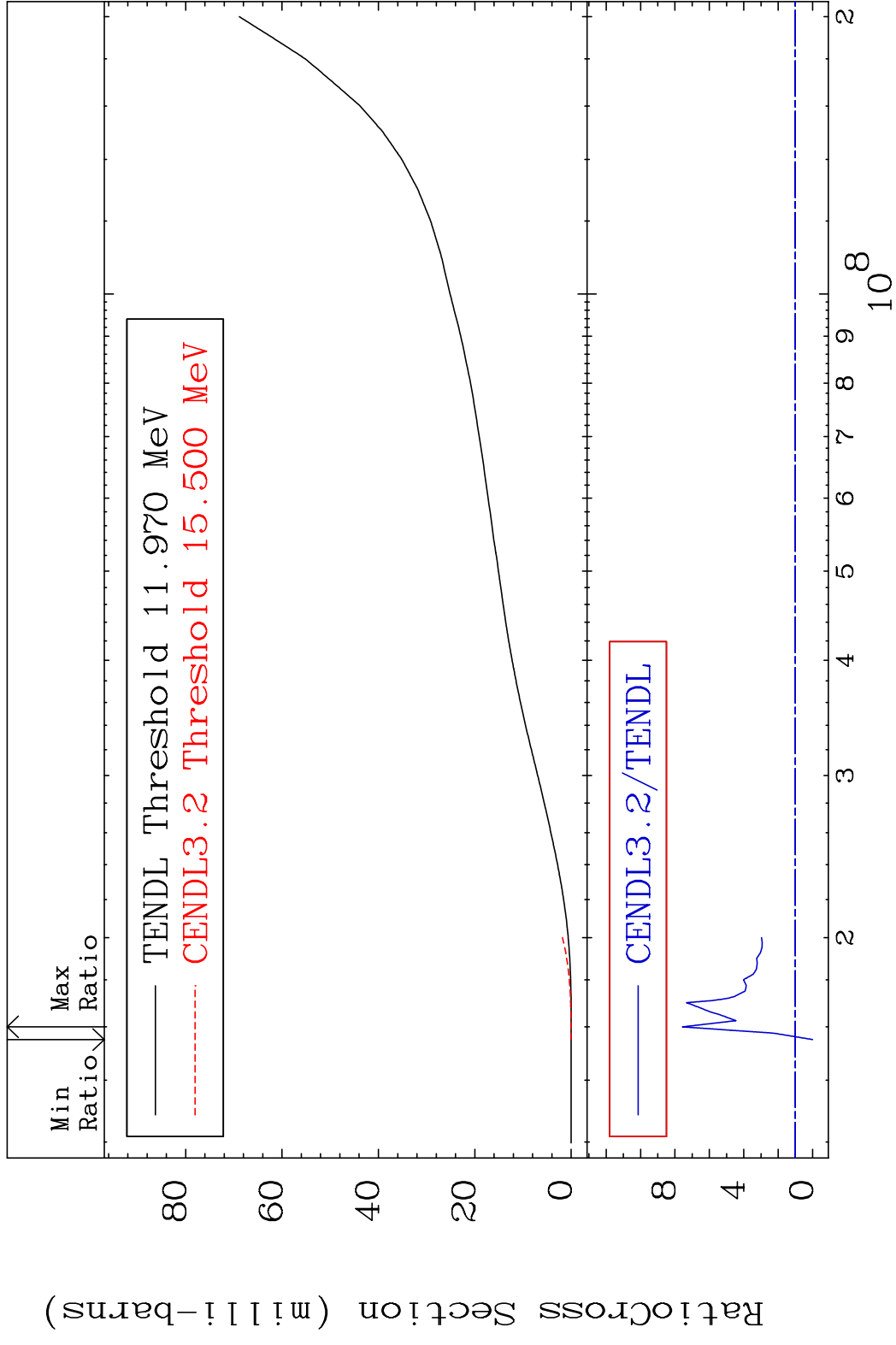
31 Incident Energy (eV) 34-Se-80

MAT 3443

Tritium Production

³⁴Se-80

Cross Section -100.0 To 657.1 %

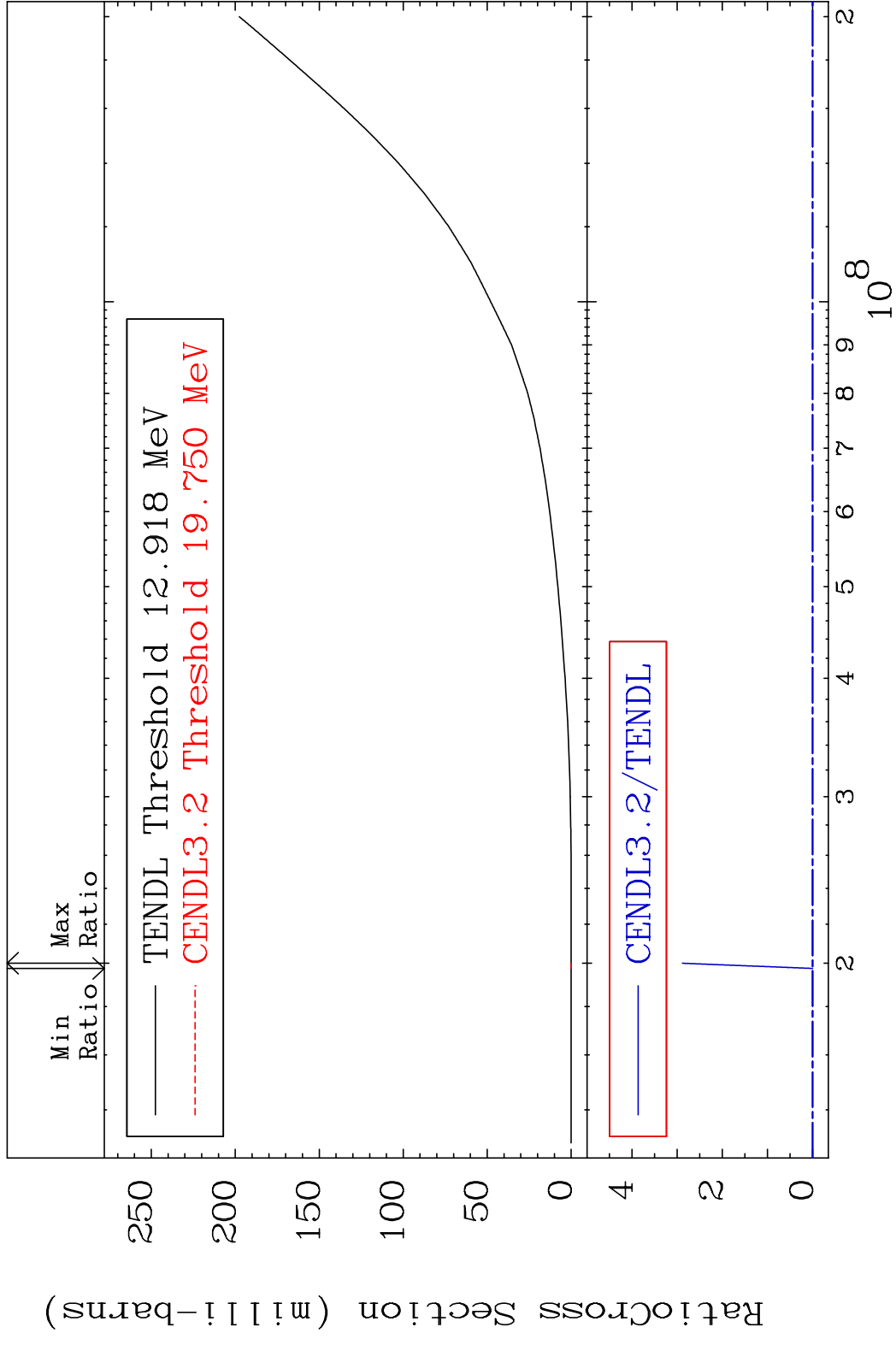


MAT 3443

He-3 Production

34-Se-80

Cross Section -100.0 To 9999. %



33

Incident Energy (eV)

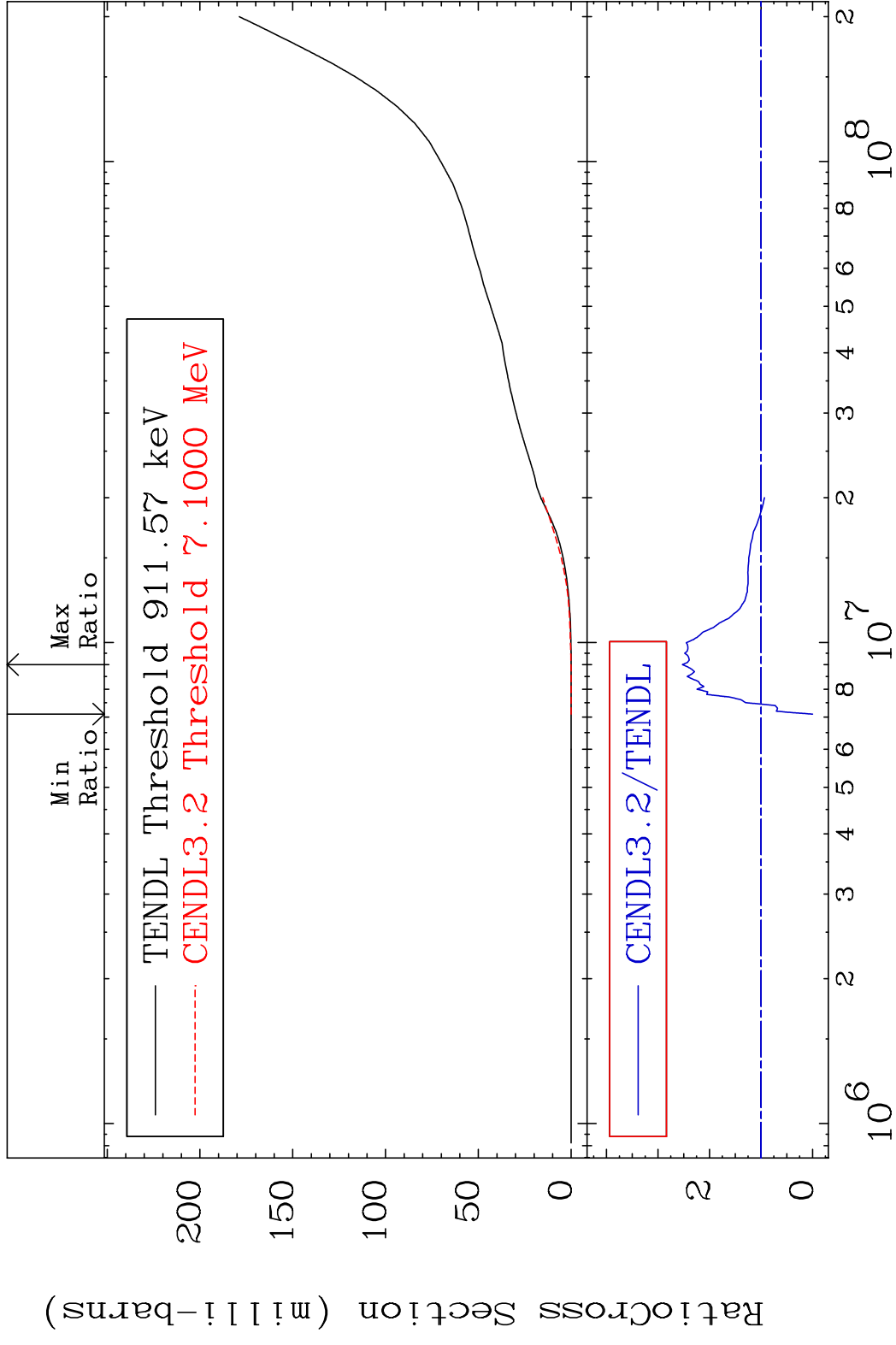
34-Se-80

MAT 3443

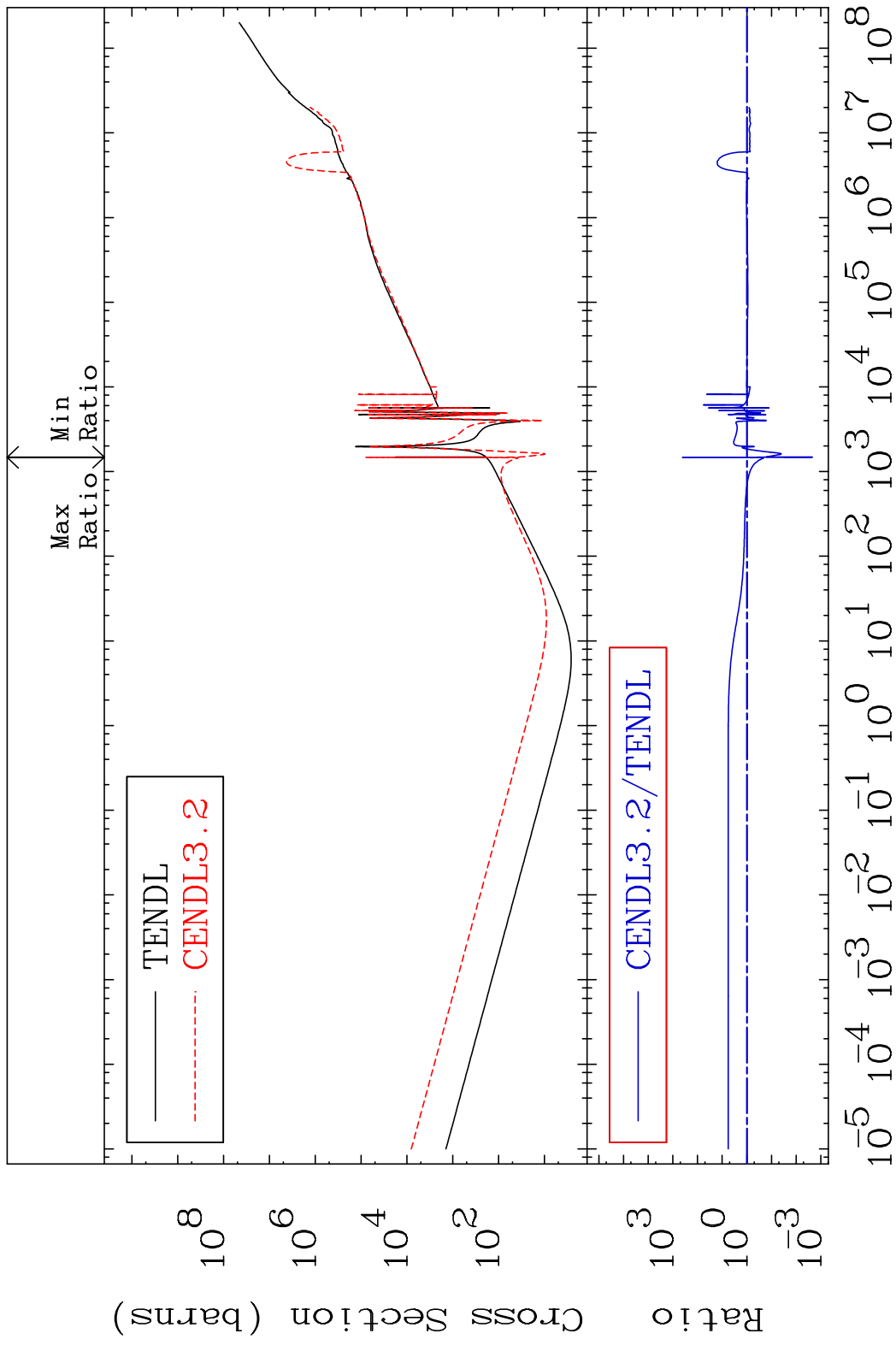
He-4 Production

34-Se-80

Cross Section -100.0 To 152.7 %



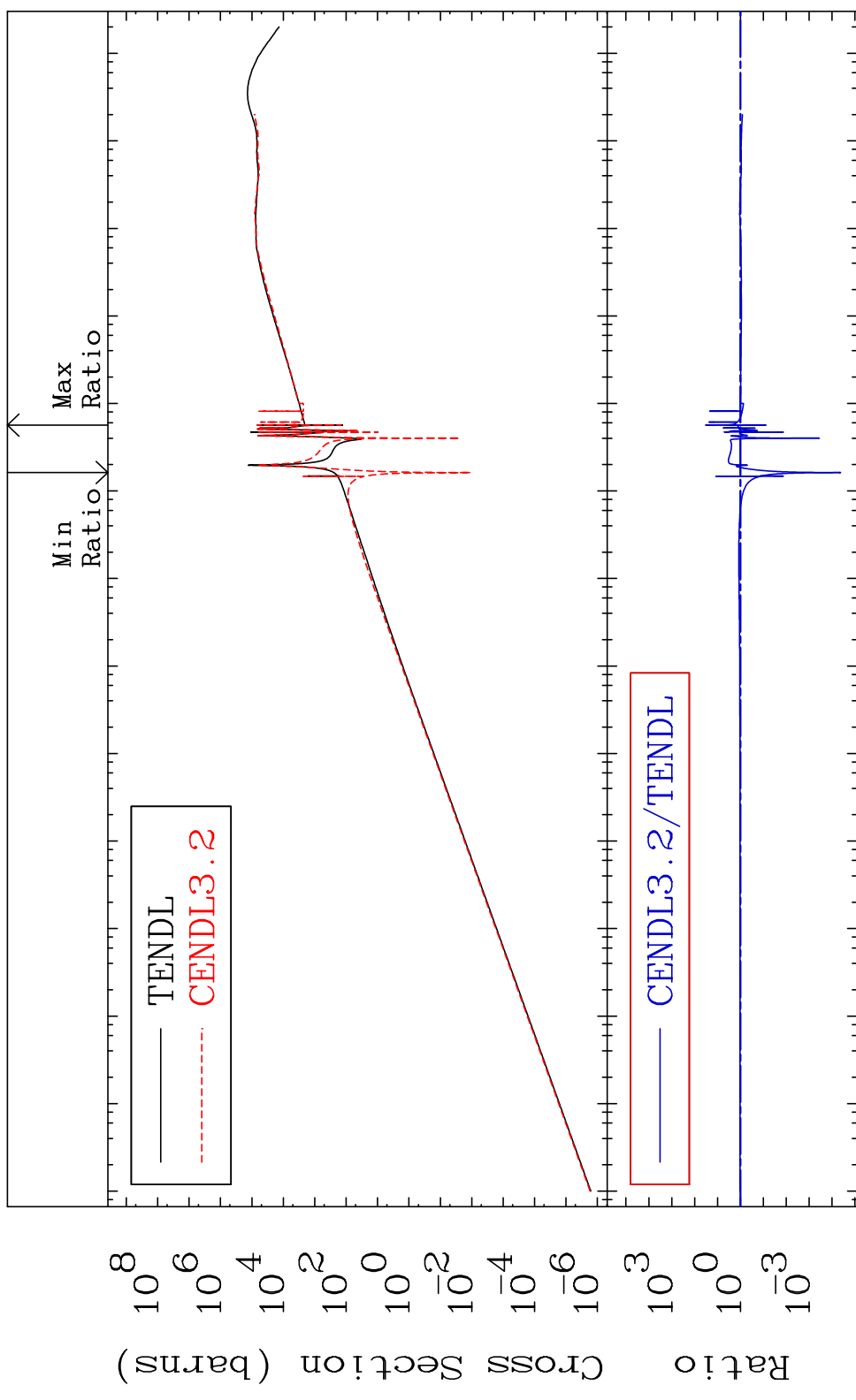
MAT 3443 Kerma total (eV-barns) 34-Se-80
 Cross Section -99.78 To 9999. %



35 Incident Energy (eV) 34-Se-80

MAT 3443

Kerma elastic Cross Section -100.0 To 3167. %
34-Se-80

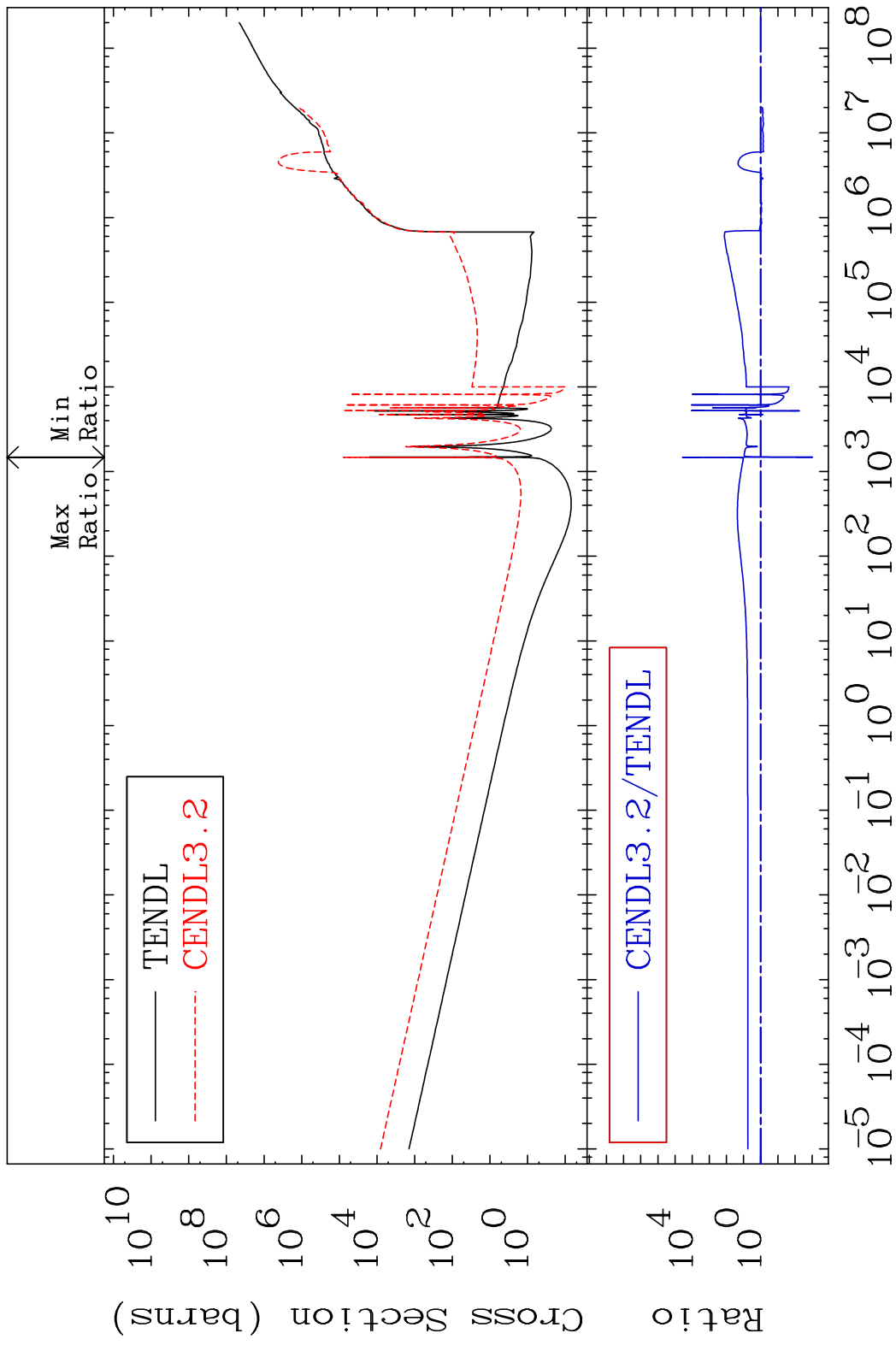


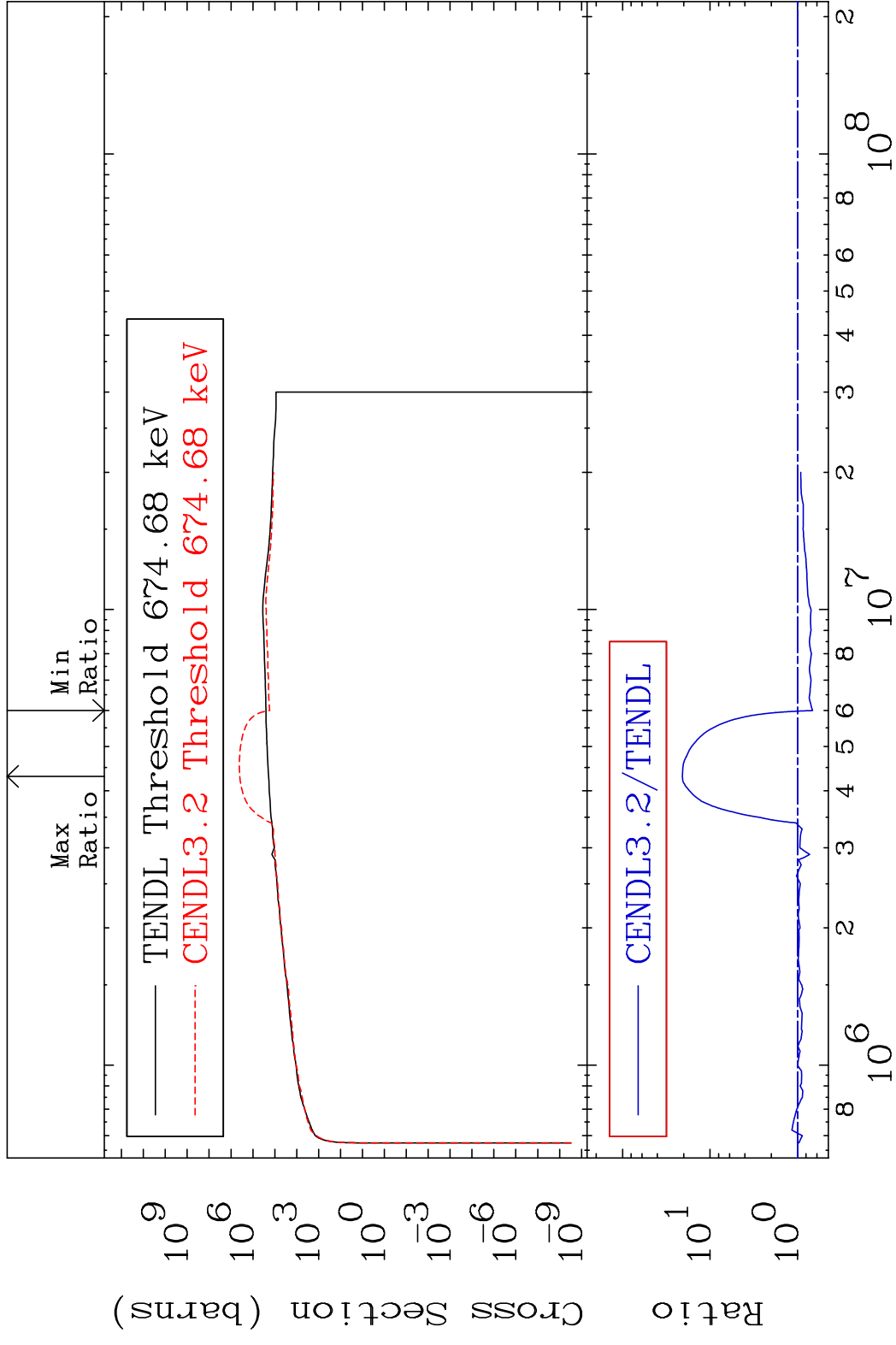
36

Incident Energy (eV)

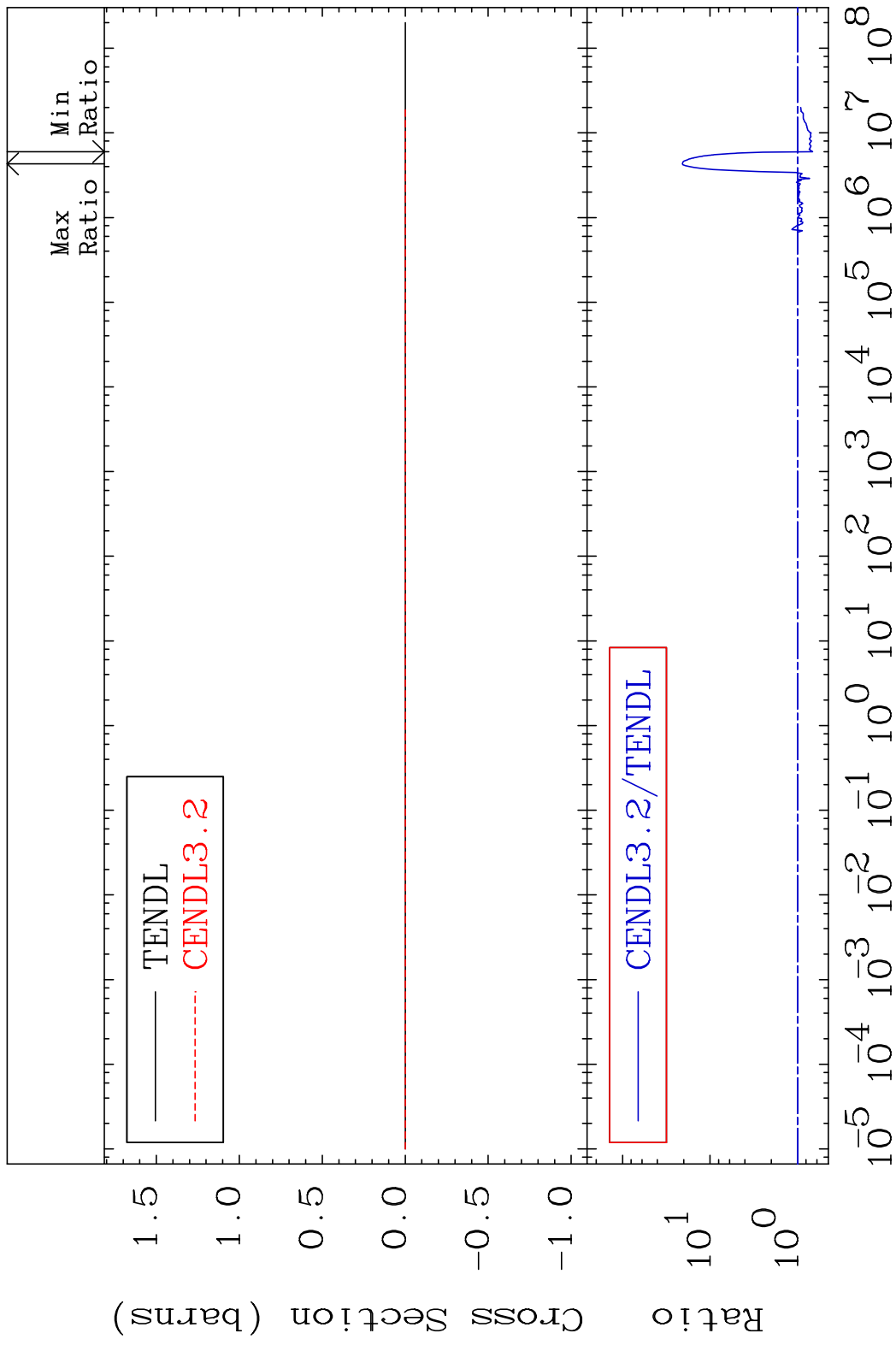
34-Se-80

MAT 3443 Kerma non-elastic (all but mt2) 34-Se-80
 Cross Section -99.91 To 9999. %



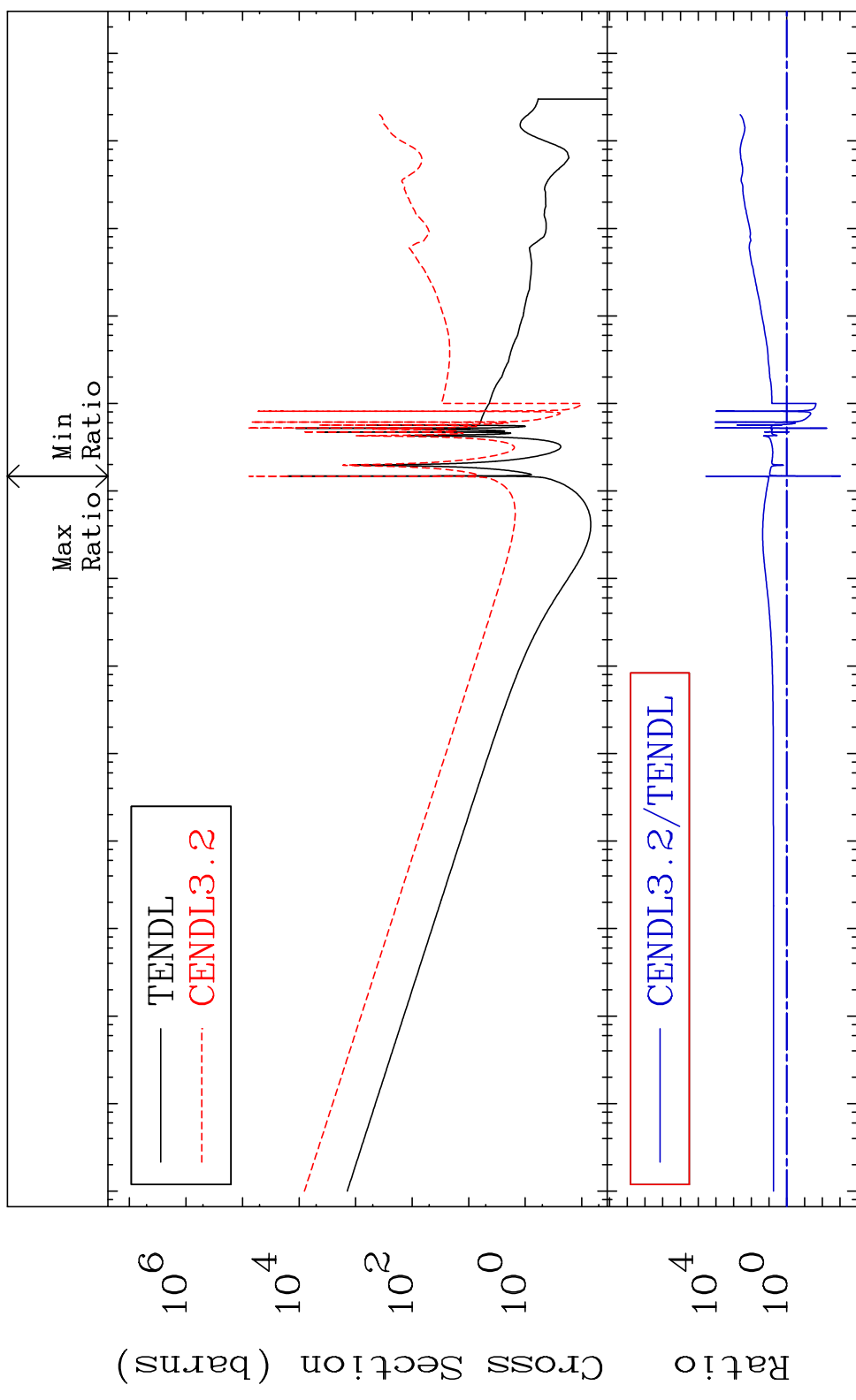


MAT 3443 Kerma fission (mt18 or mt19-20-21-38) 34-Se-80
 Cross Section -32.49 To 1973. %



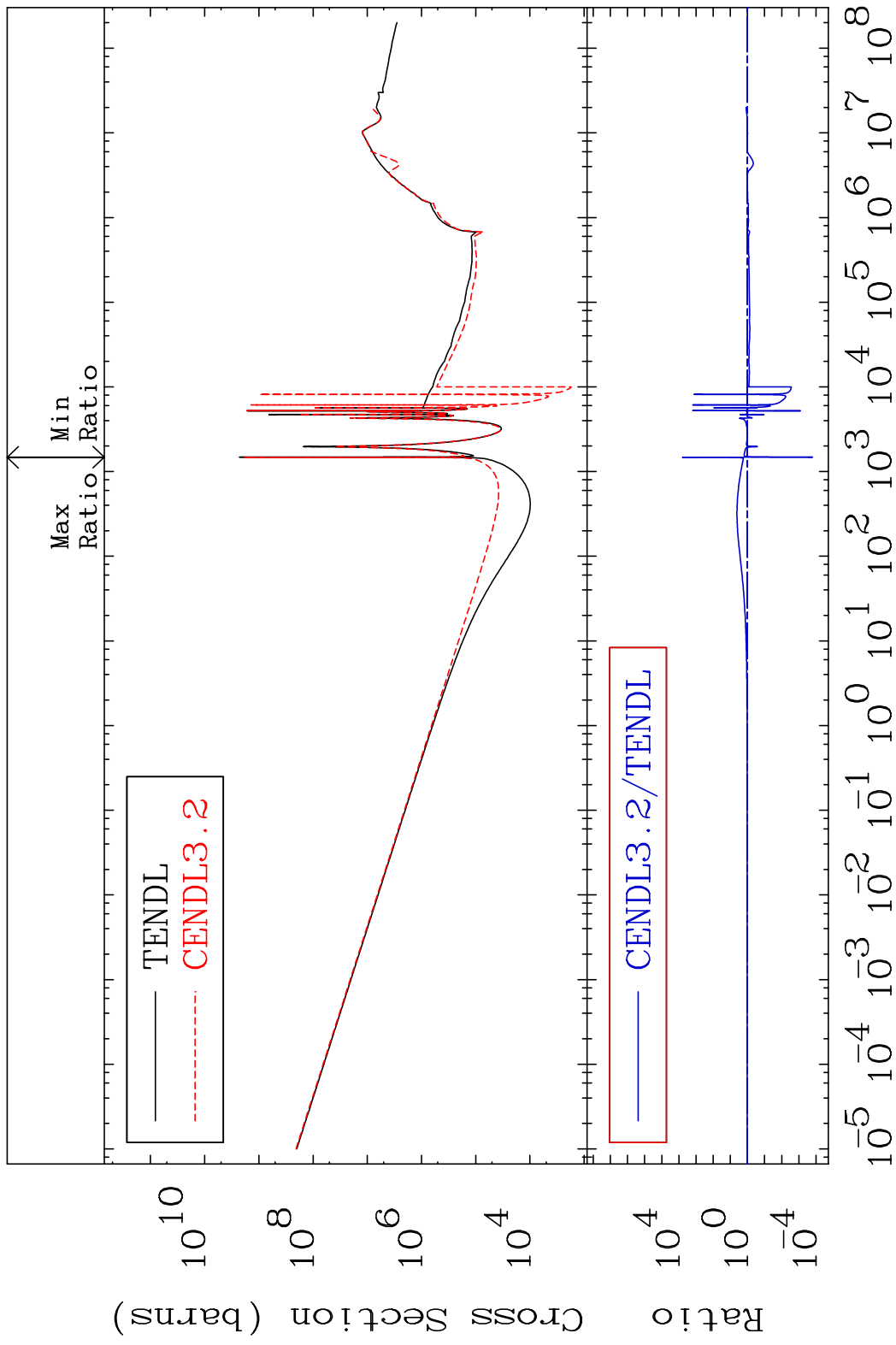
MAT 3443

Kerma capture (mt102) 34-Se-80
Cross Section -99.91 To 9999. %



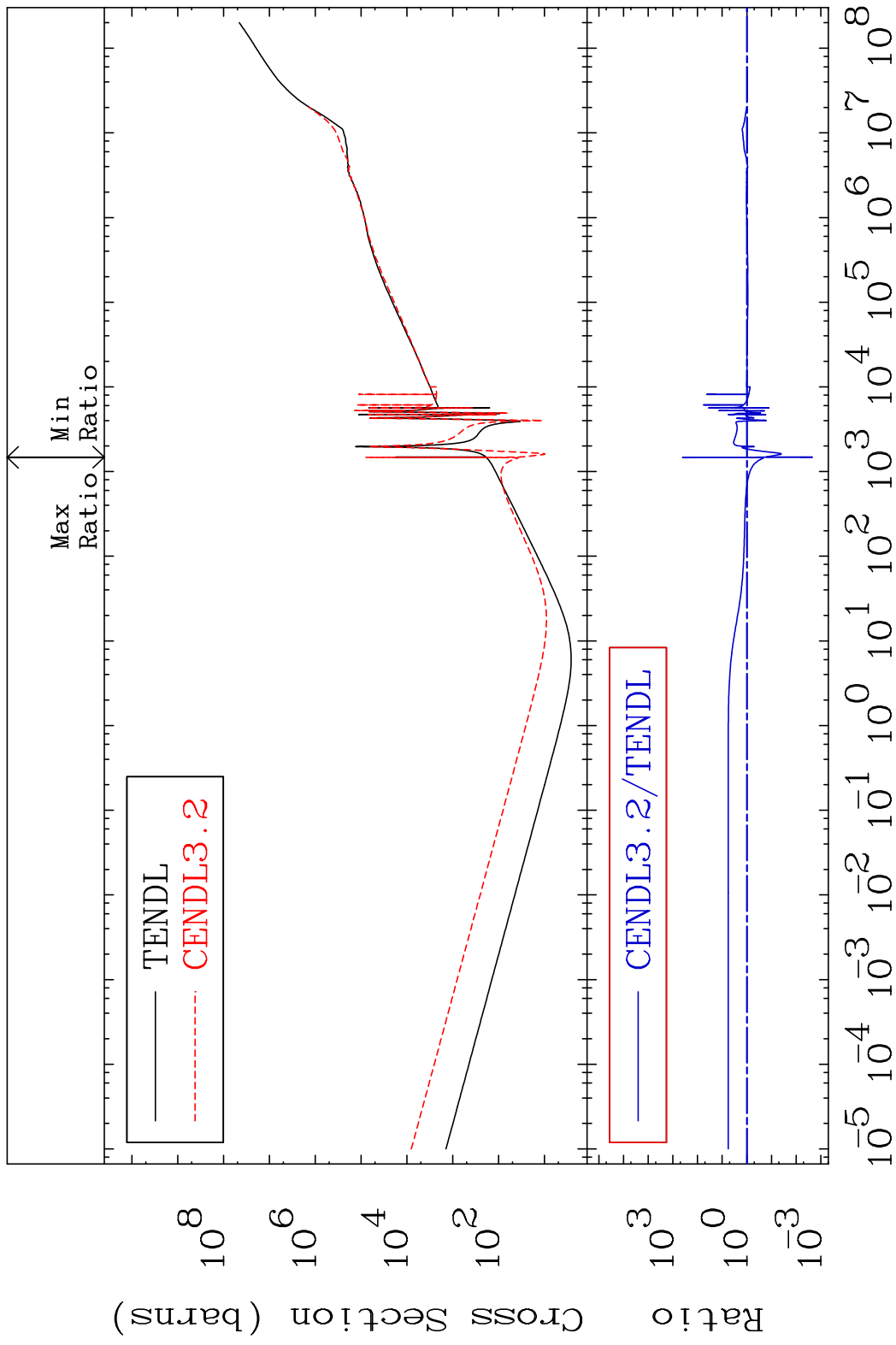
40 Incident Energy (eV) 34-Se-80

MAT 3443 Total photon (eV-barns) 34-Se-80
 Cross Section -99.98 To 9999. %



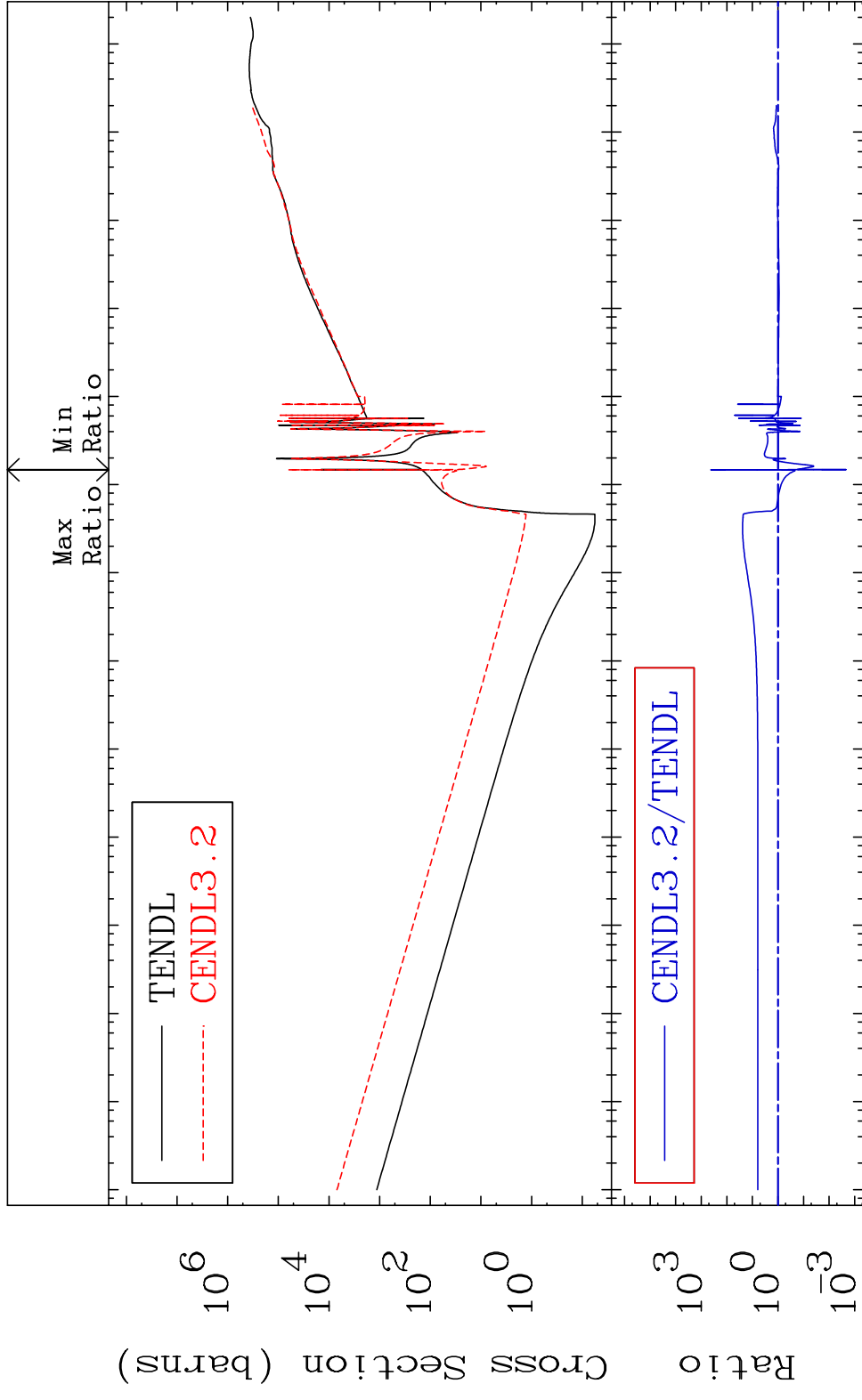
41 Incident Energy (eV) 34-Se-80

MAT 3443 Total kinematic kerma (high limit) 34-Se-80
 Cross Section -99.78 To 9999. %



42 Incident Energy (eV) 34-Se-80

MAT 3443 Dpa total (eV-barns) 34-Se-80
 Cross Section -99.79 To 9999. %

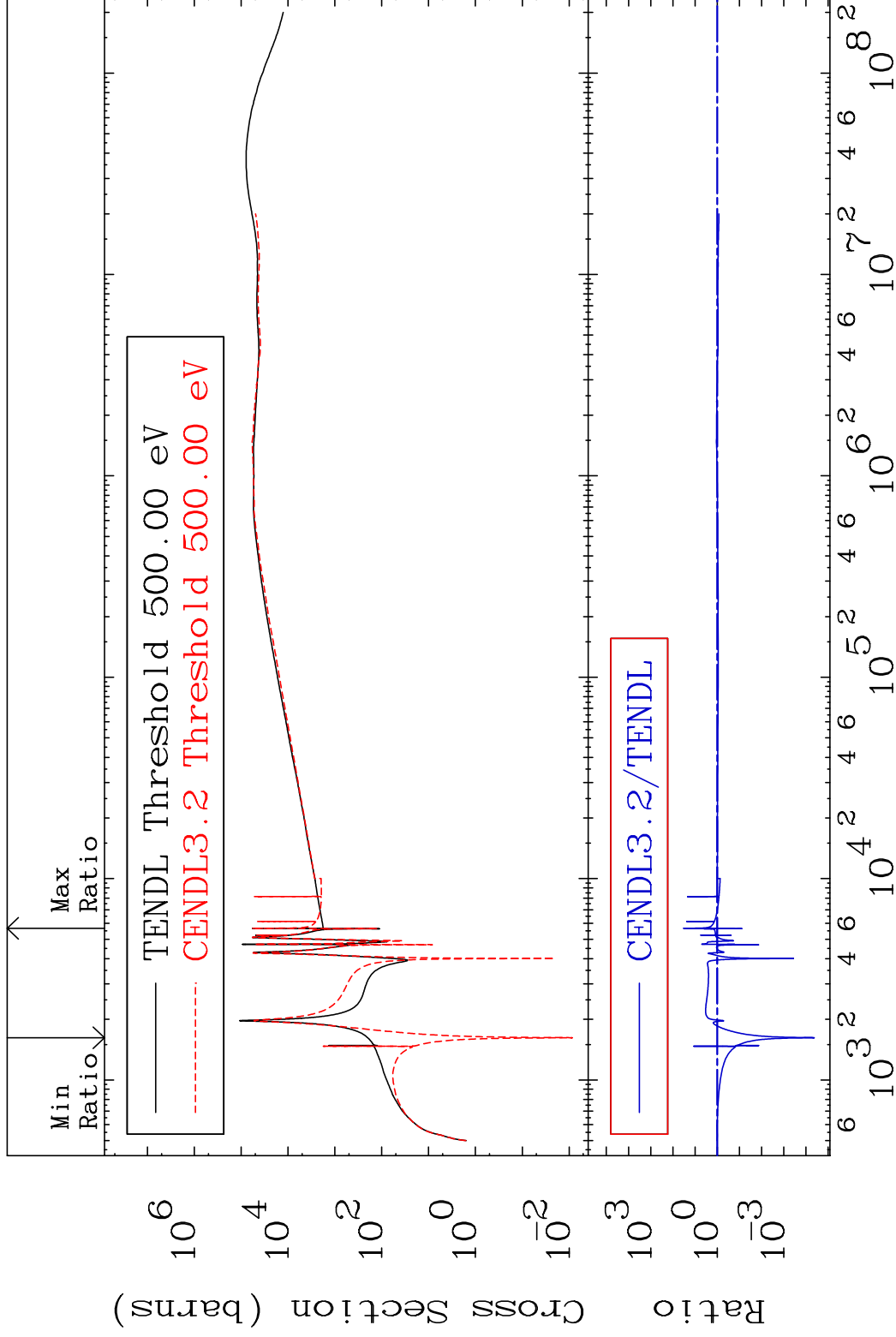


MAT 3443

Dpa elastic (mt2)

34-Se-80

Cross Section -100.0 To 3168. %

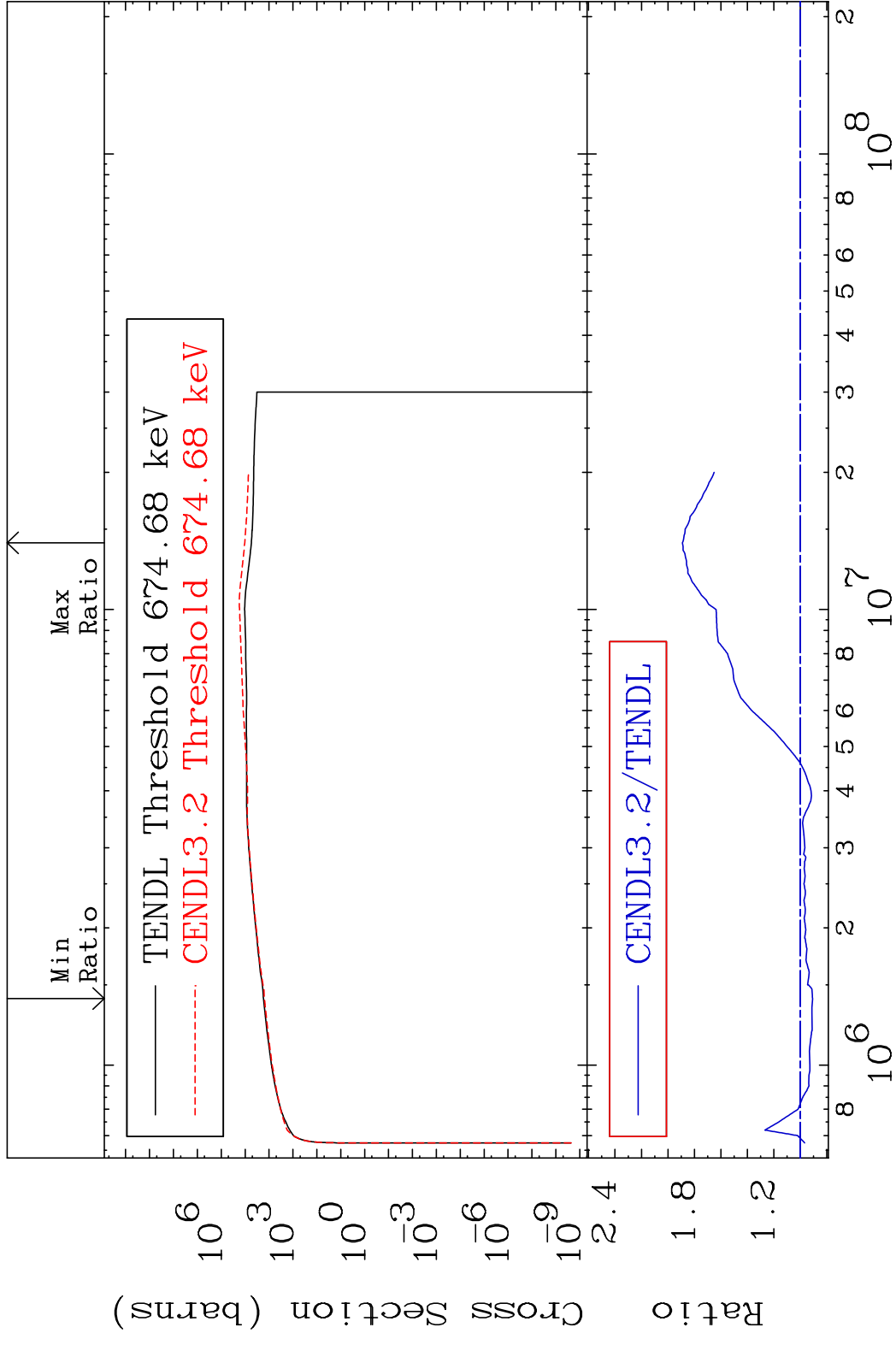


44

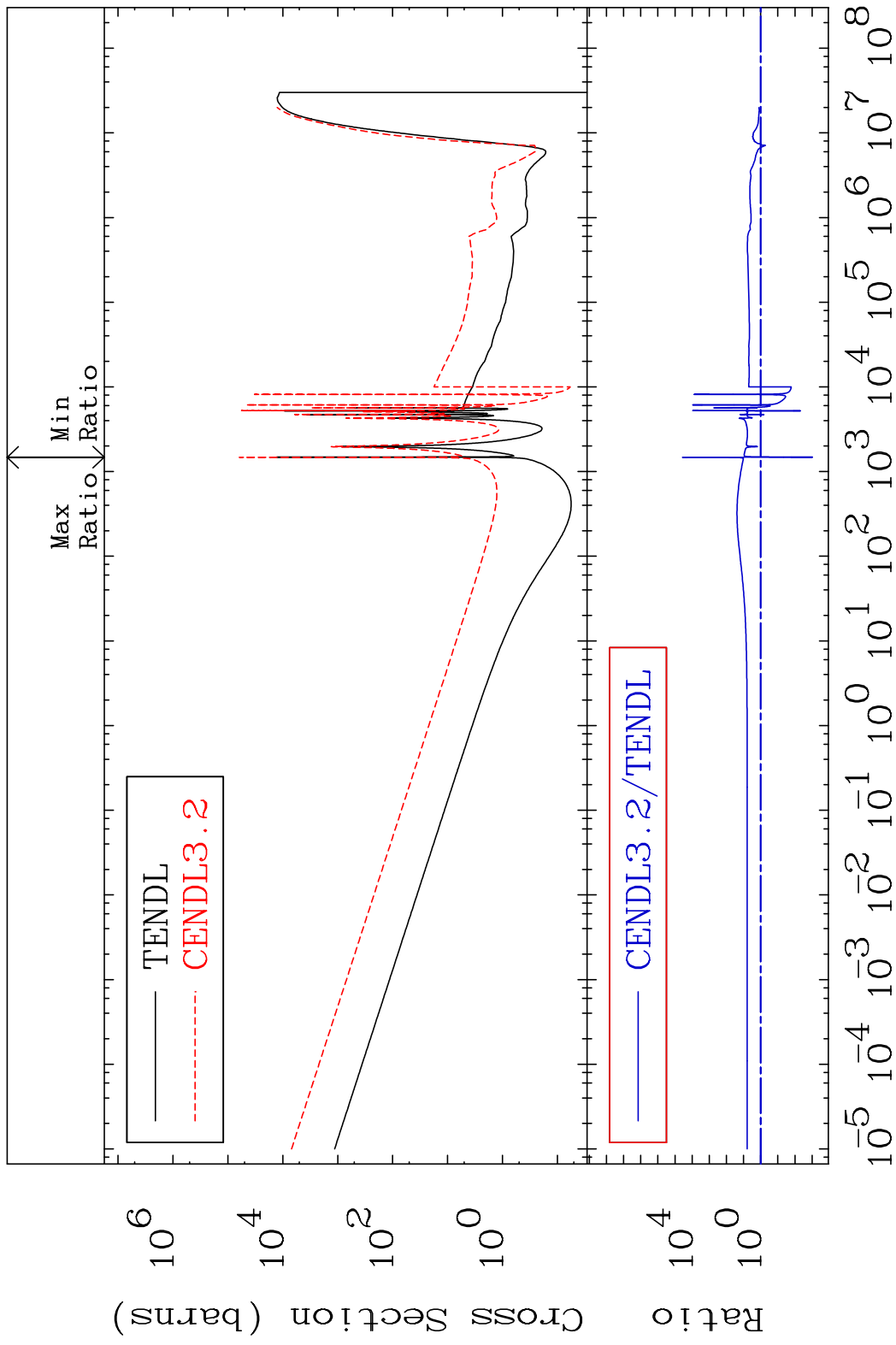
Incident Energy (eV)

34-Se-80

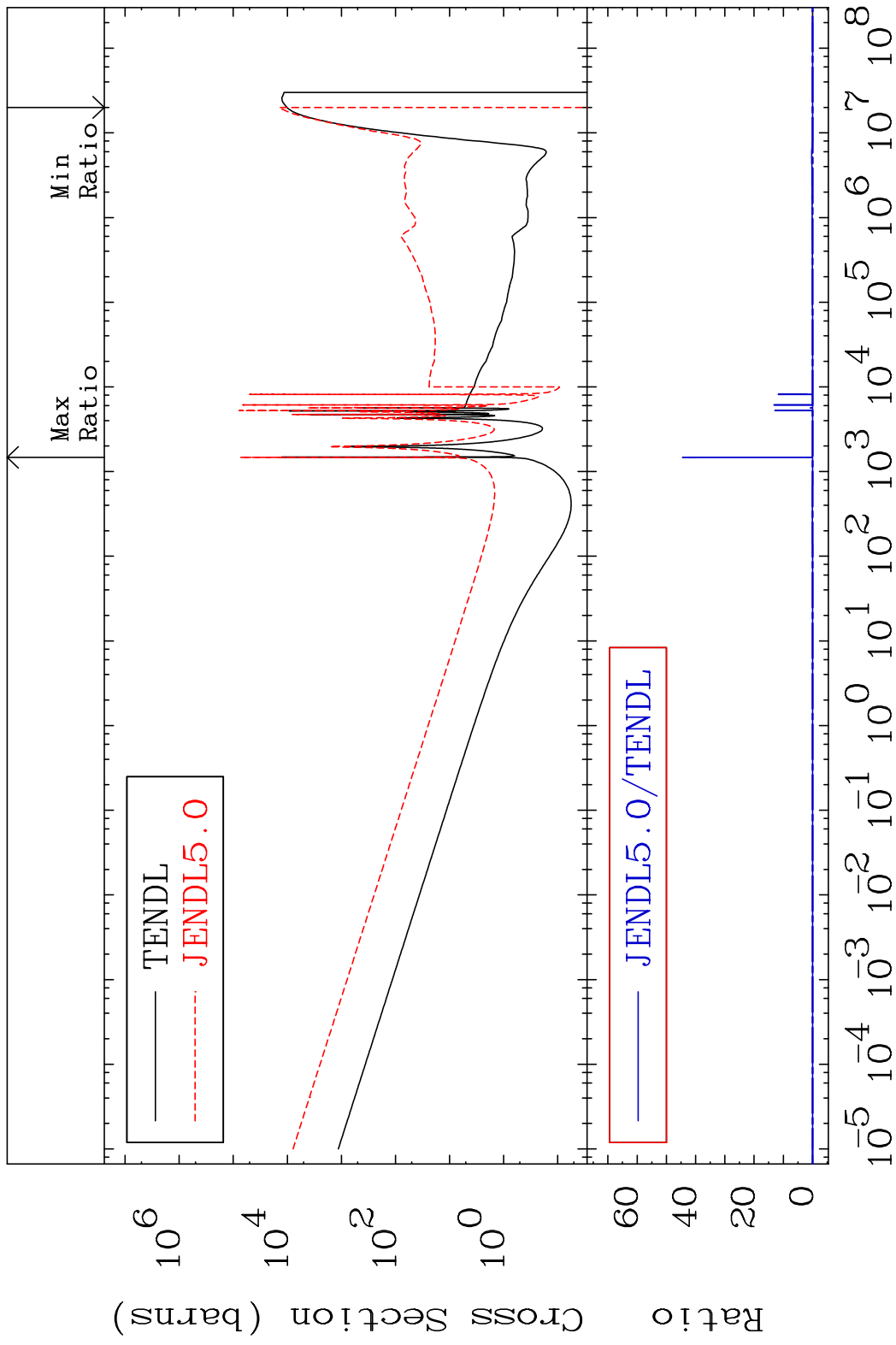
MAT 3443 Dpa inelastic (mt51-91) 34-Se-80
 Cross Section -9.208 To 89.13 %



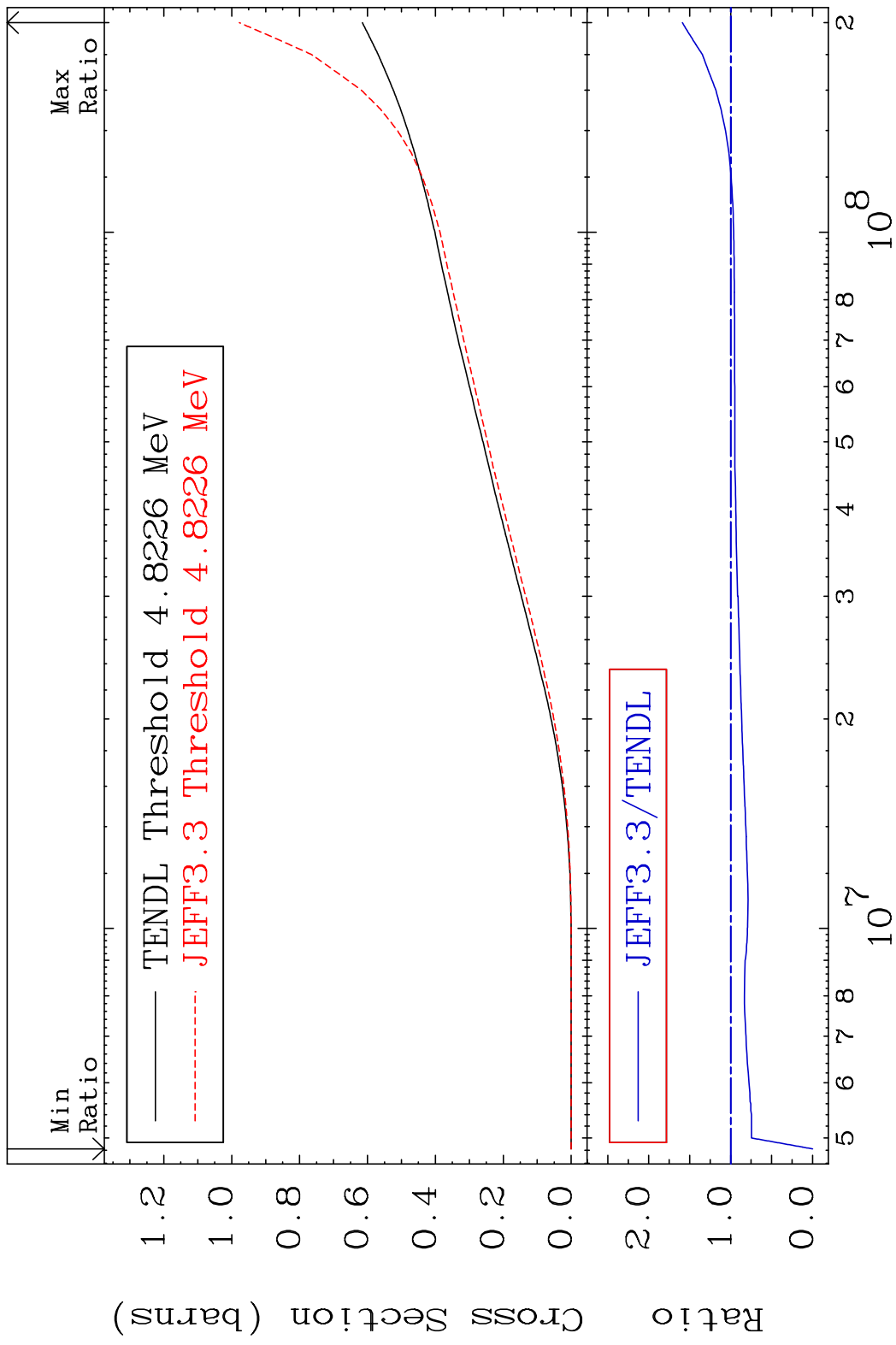
MAT 3443 Dpa disappearance (mt102 -120) 34-Se-80
 Cross Section -99.91 To 9999. %



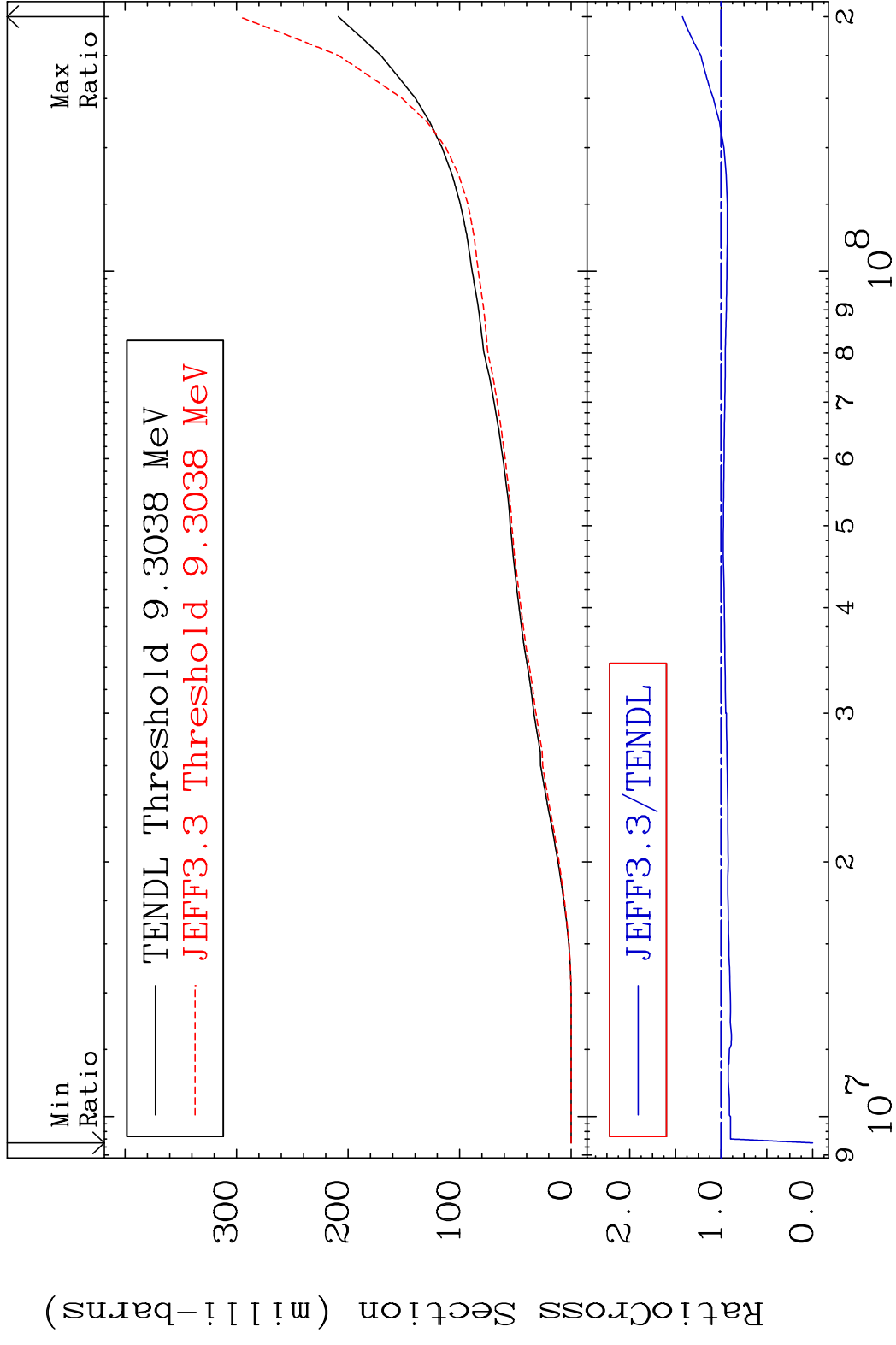
MAT 3443 Dpa disappearance (mt102 -120) 34-Se-80
 Cross Section -100.0 To 9999. %



MAT 3443 Hydrogen Production 34-Se-80
 Cross Section -100.0 To 58.94 %

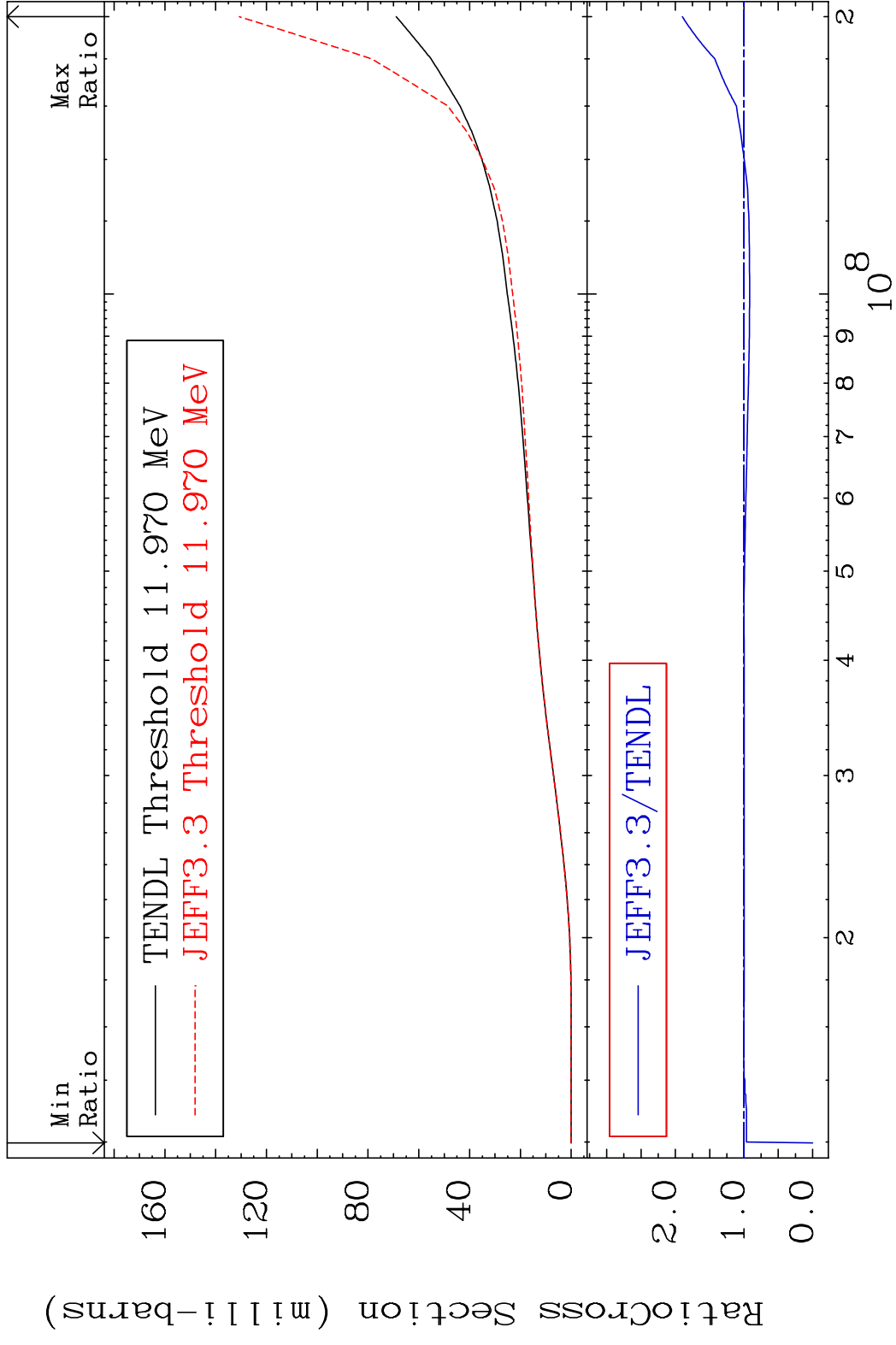


MAT 3443 Deuterium Production 34-Se-80
 Cross Section -100.0 To 42.44 %

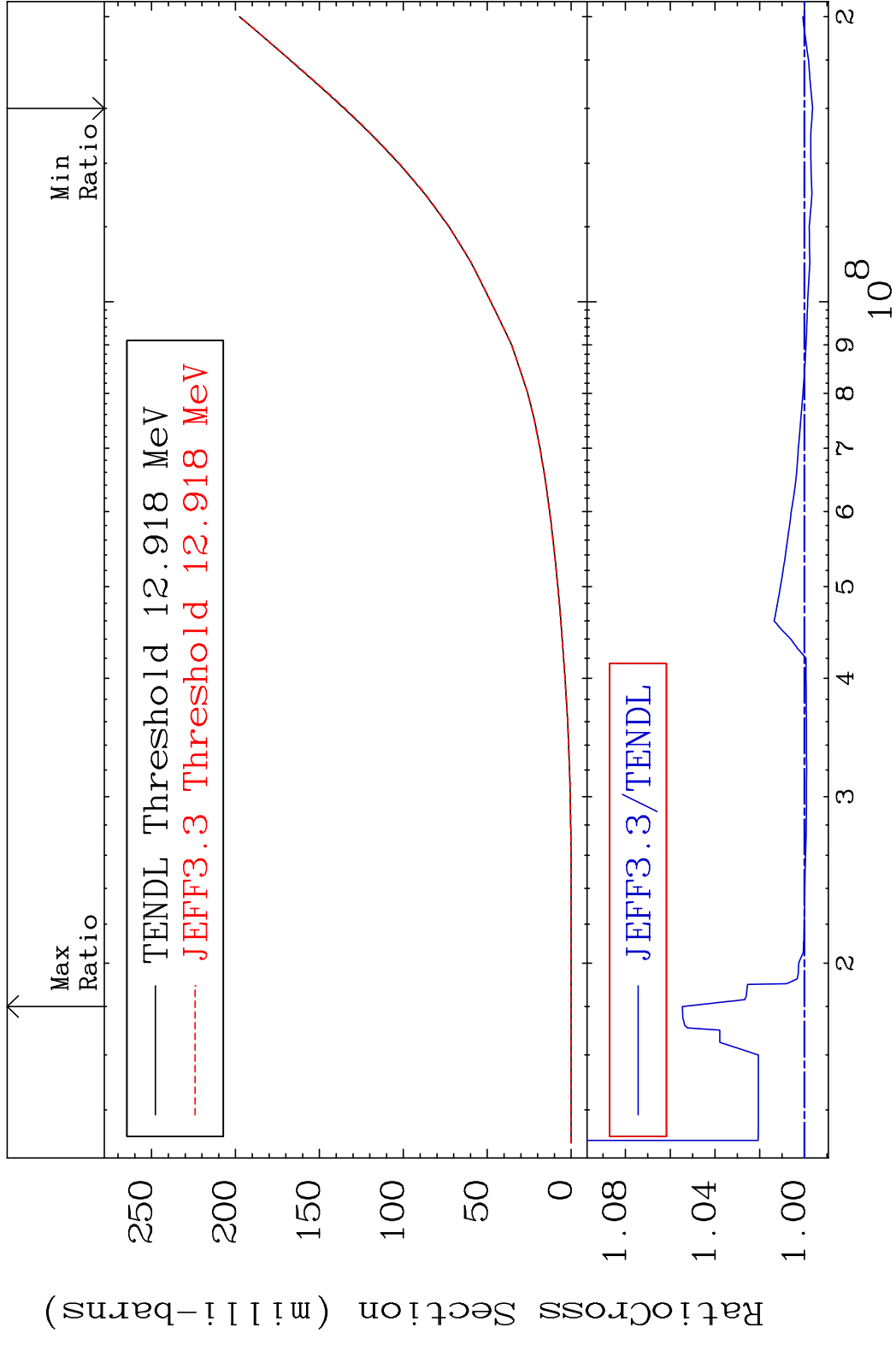


49 Incident Energy (eV) 34-Se-80

MAT 3443 Tritium Production 34-Se-80
 Cross Section -100.0 To 89.78 %



MAT 3443 He-3 Production 34-Se-80
 Cross Section -0.361 To 5.458 %

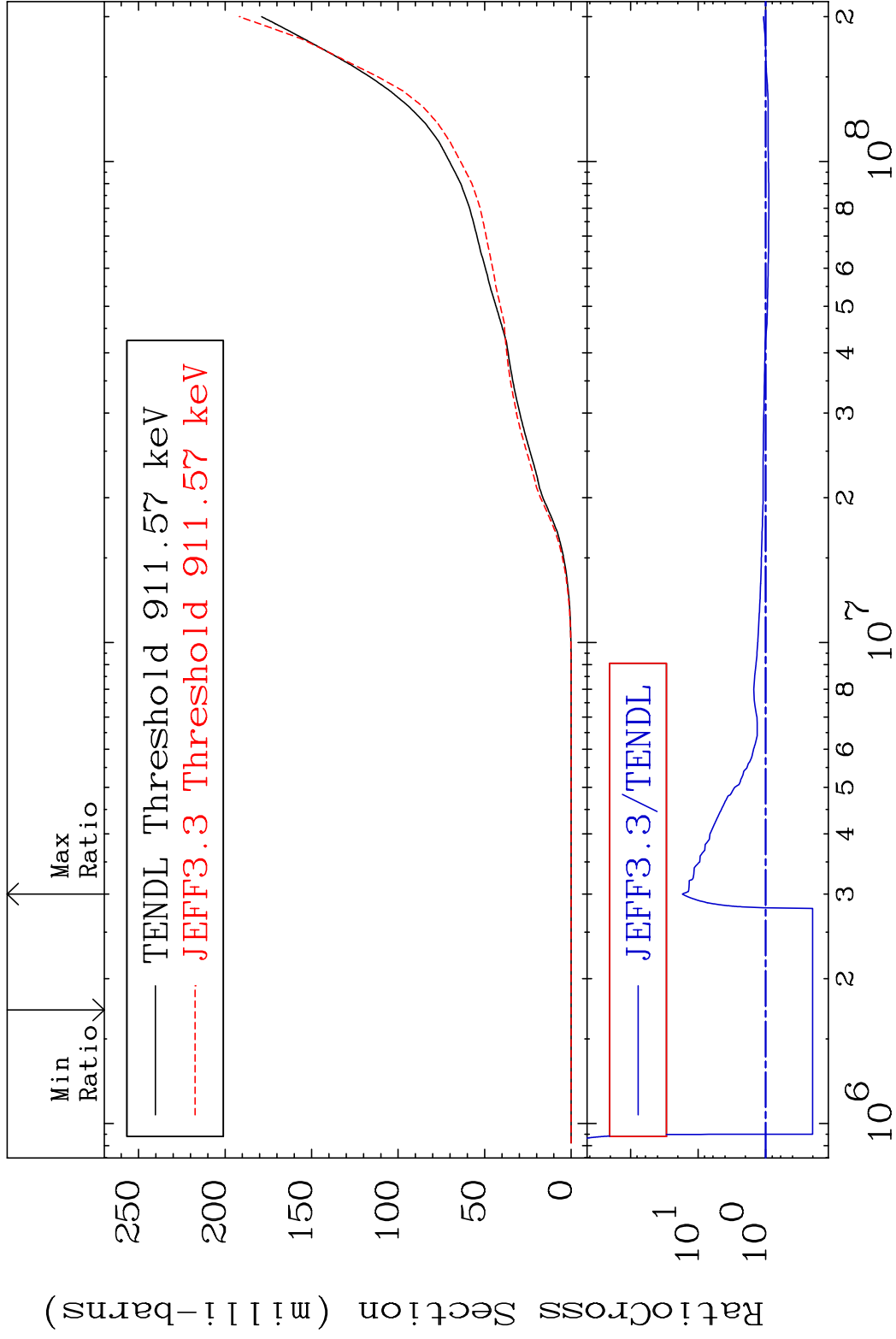


MAT 3443

He-4 Production

34-Se-80

Cross Section -79.84 To 1609. %

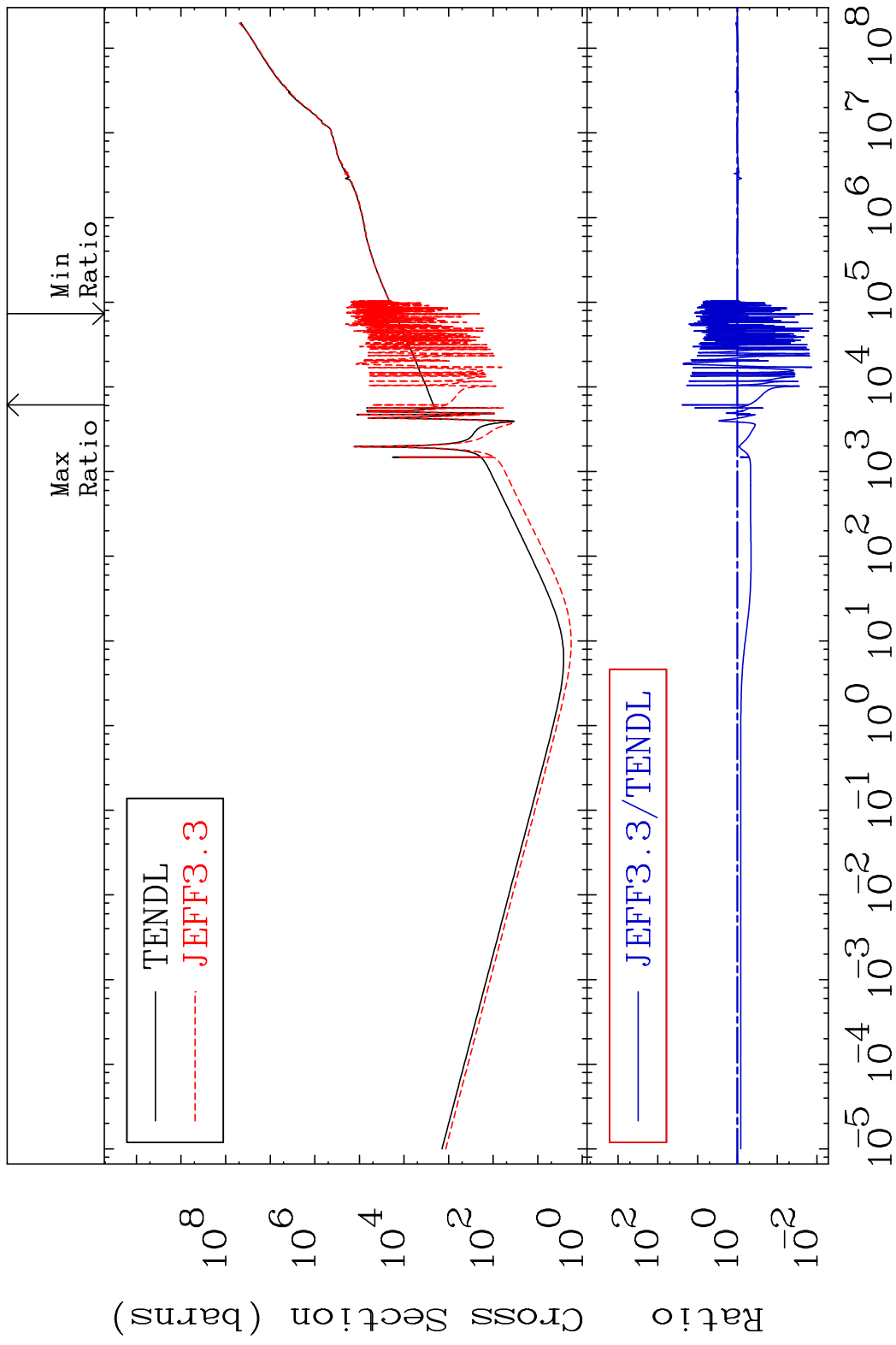


52

Incident Energy (eV)

34-Se-80

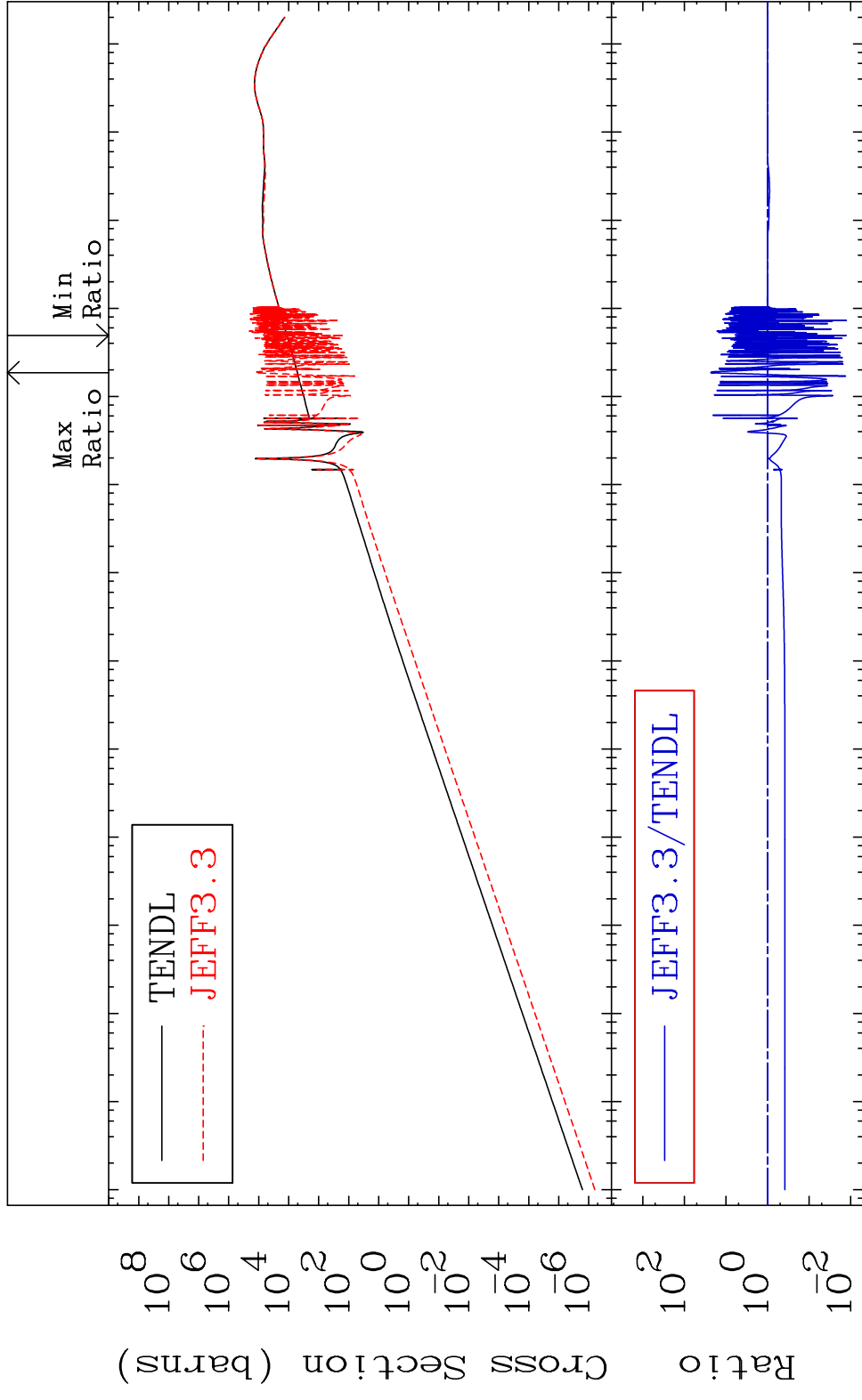
MAT 3443 Kerma total (eV-barns) 34-Se-80
 Cross Section -98.71 To 2317. %



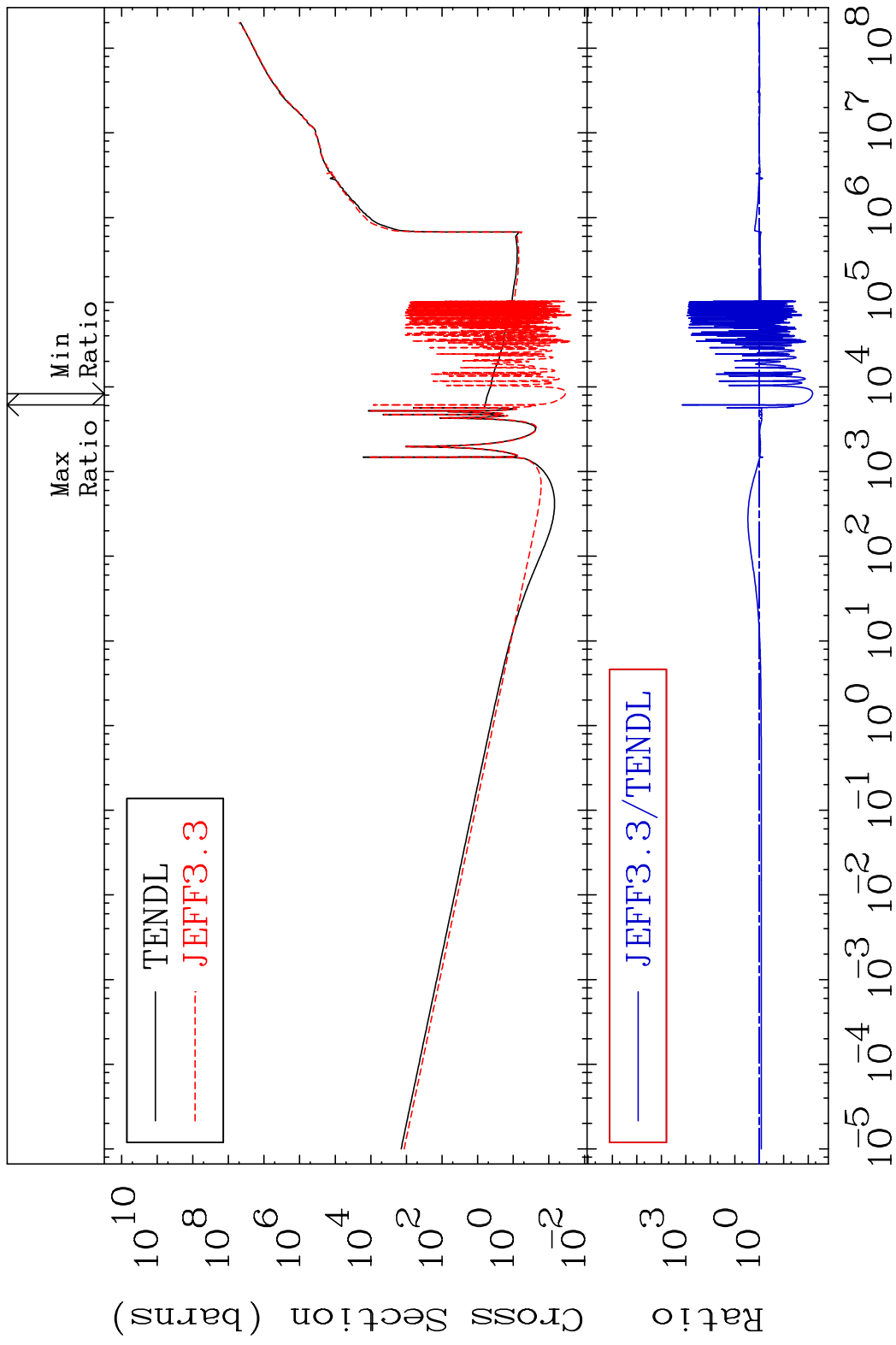
MAT 3443

Kerma elastic
Cross Section

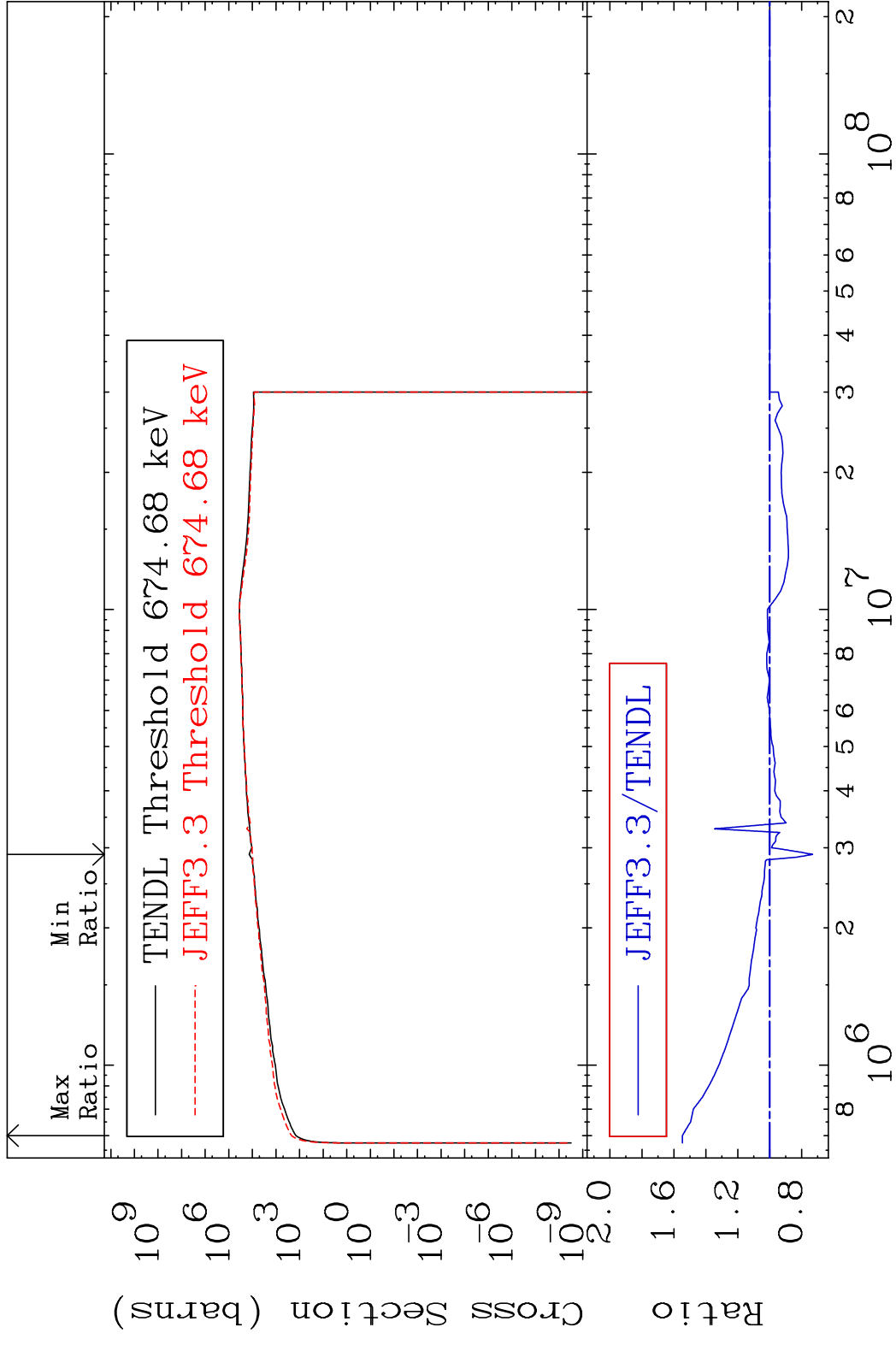
34-Se-80
-98.73 To 2219. %



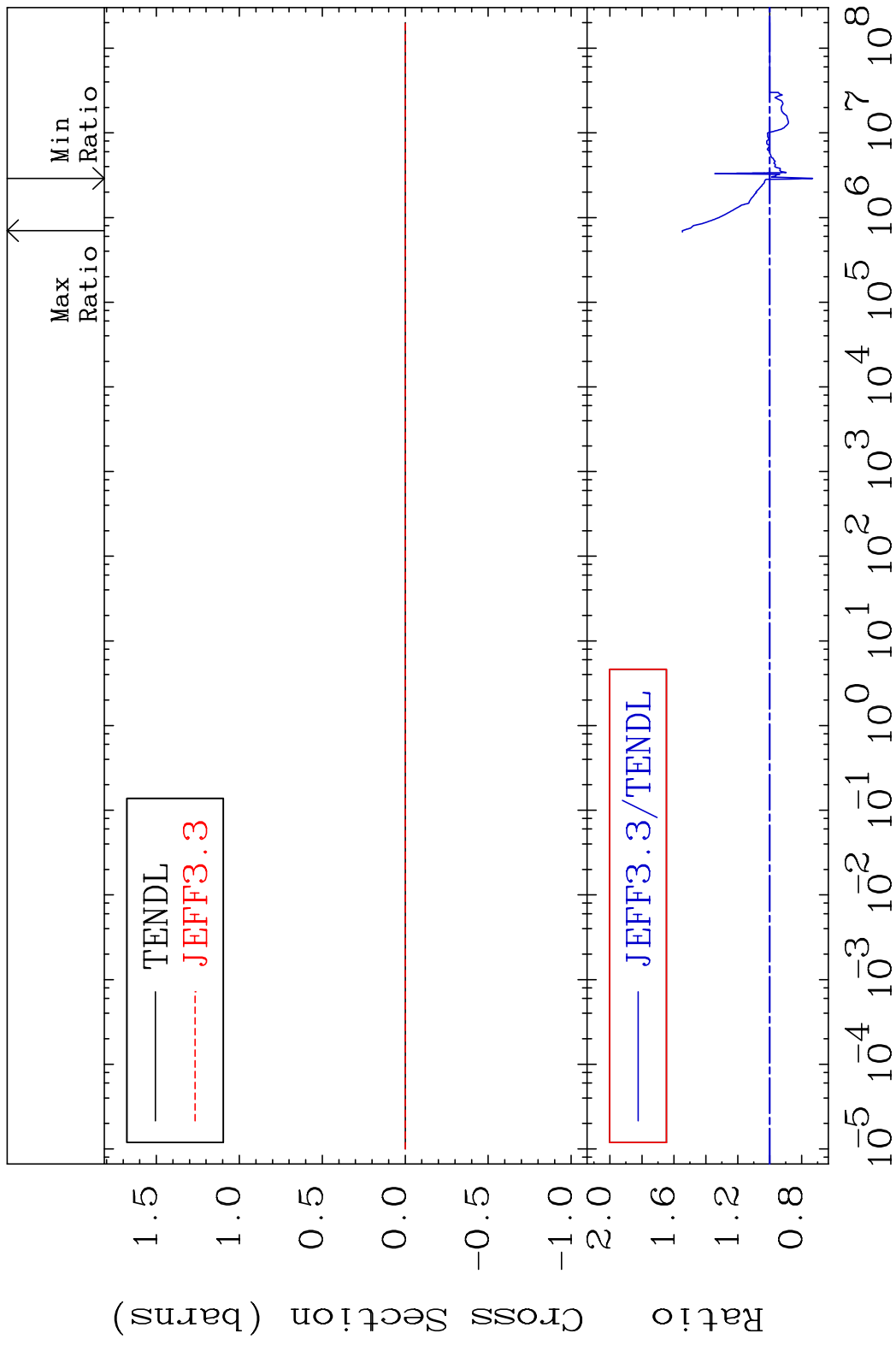
MAT 3443 Kerma non-elastic (all but mt2) 34-Se-80
 Cross Section -99.33 To 9999. %



MAT 3443 Kerma inelastic (mt51-91) 34-Se-80
 Cross Section -26.83 To 54.68 %

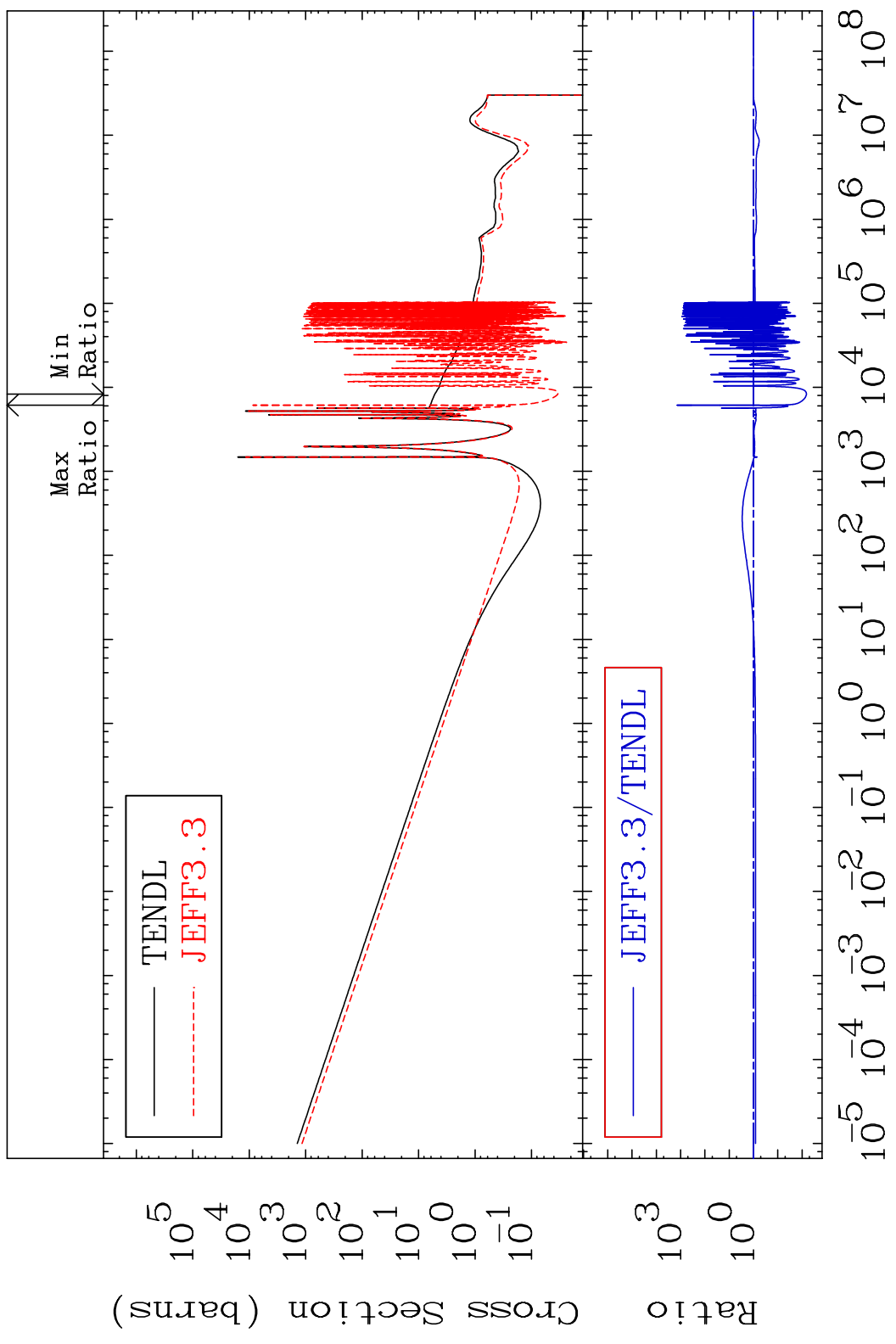


MAT 3443 Kerma fission (mt18 or mt19-20-21-38) 34-Se-80
 Cross Section -26.83 To 54.68 %

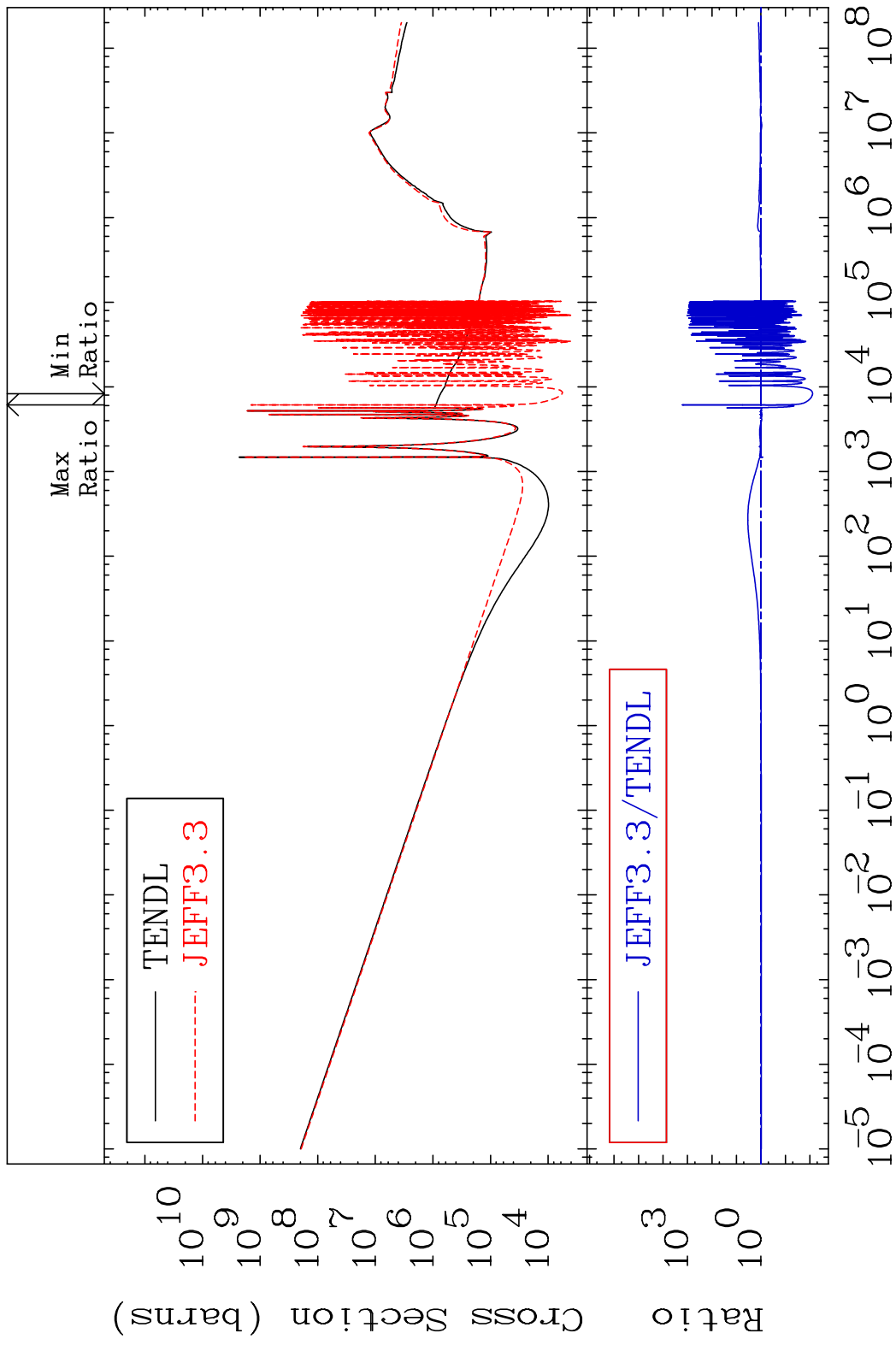


MAT 3443

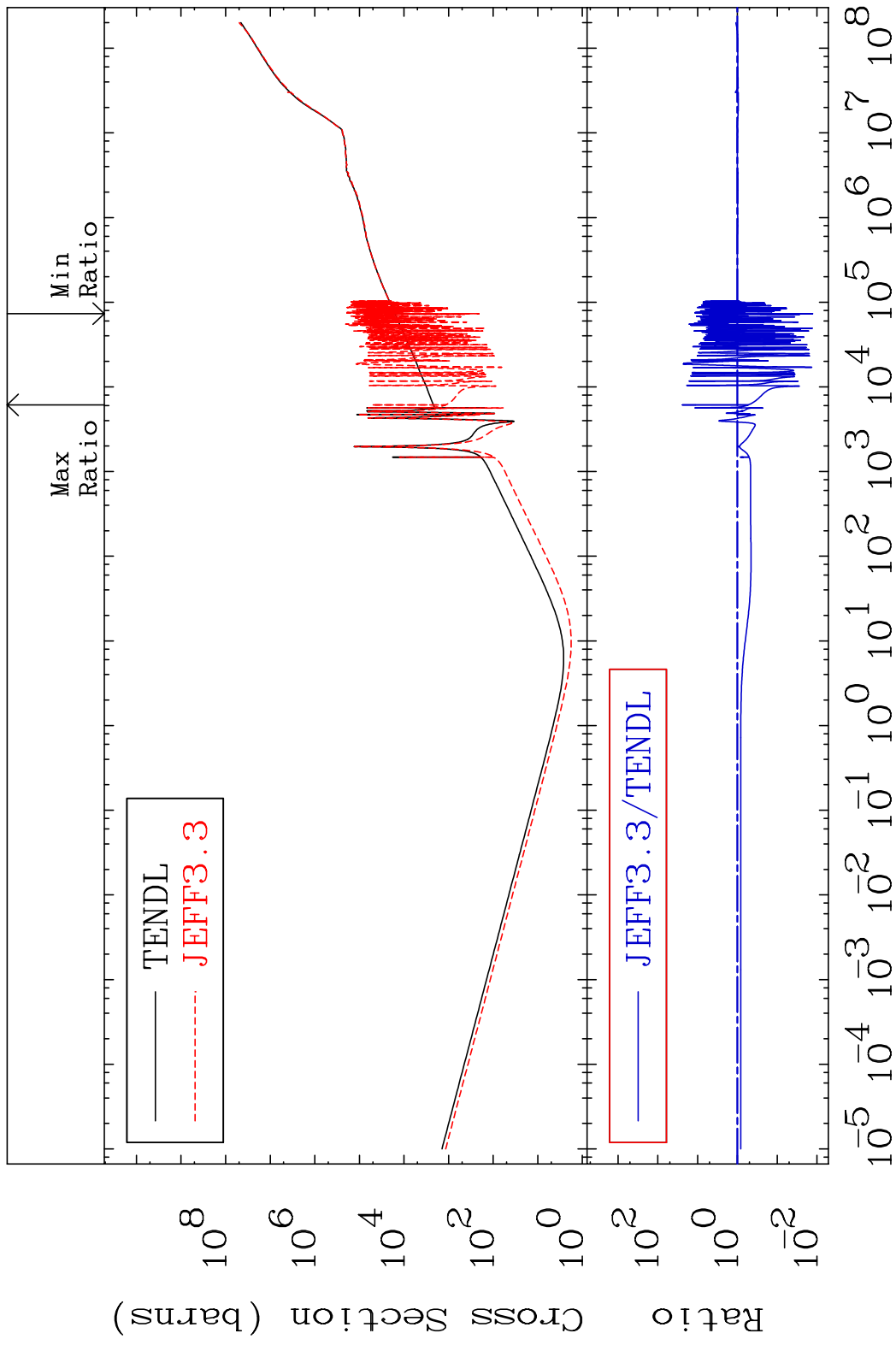
Kerma capture (mt102) 34-Se-80
Cross Section -99.33 To 9999. %



MAT 3443 Total photon (eV-barns) 34-Se-80
 Cross Section -99.22 To 9999. %



MAT 3443 Total kinematic kerma (high limit) 34-Se-80
 Cross Section -98.71 To 2317. %

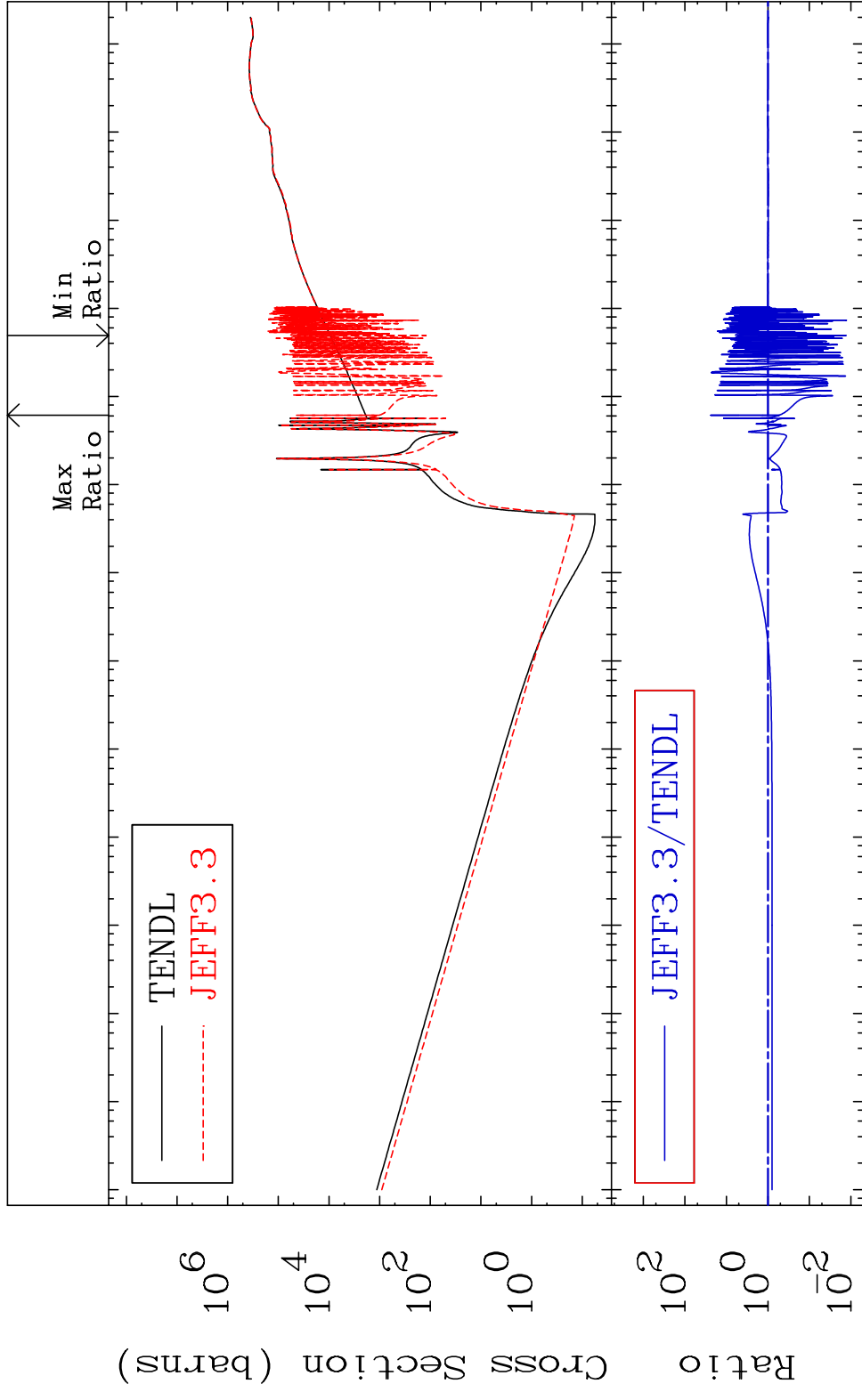


MAT 3443

Dpa total (eV-barns)

34-Se-80

Cross Section -98.71 To 2281. %



61

Incident Energy (eV)

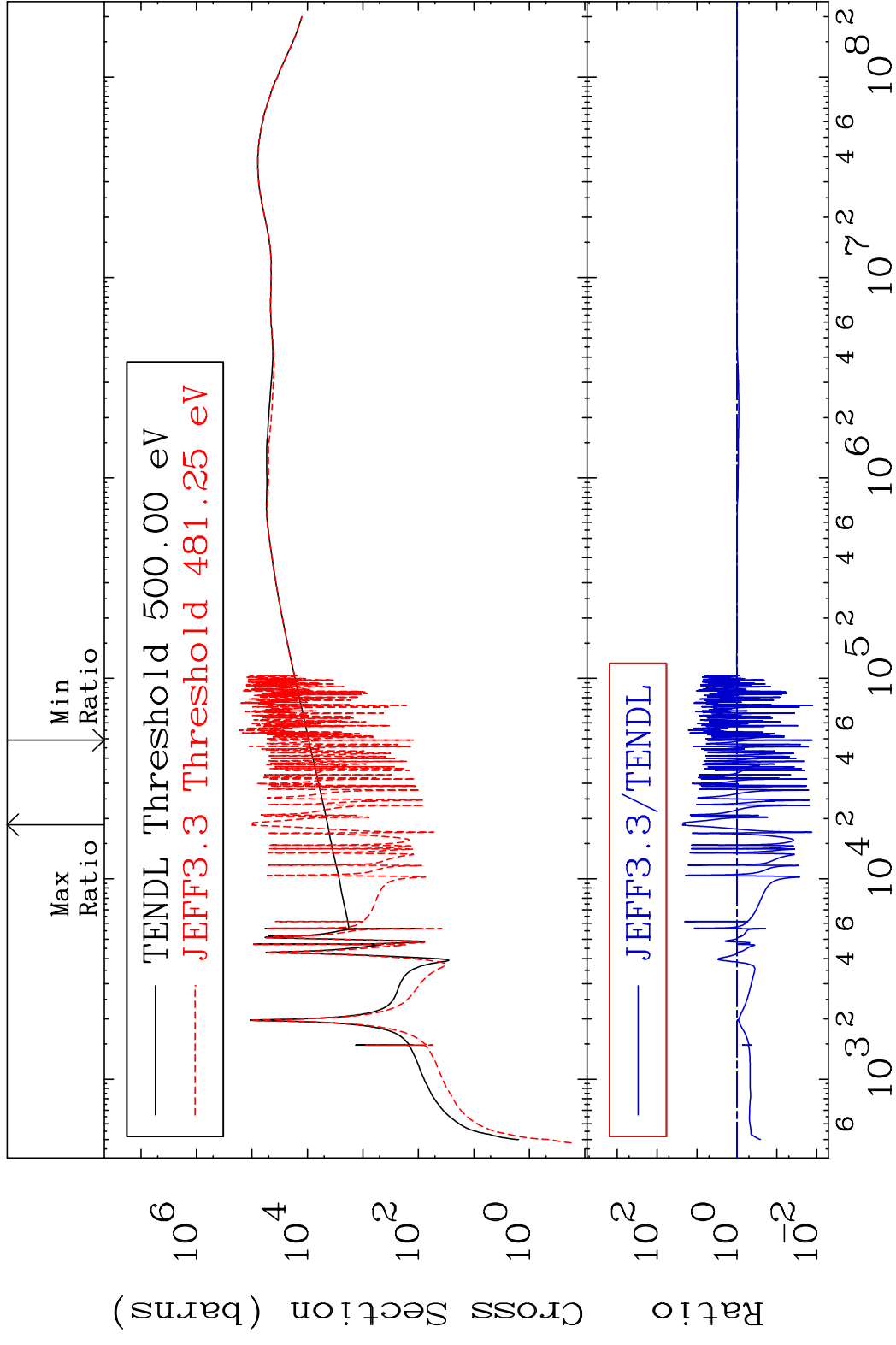
34-Se-80

MAT 3443

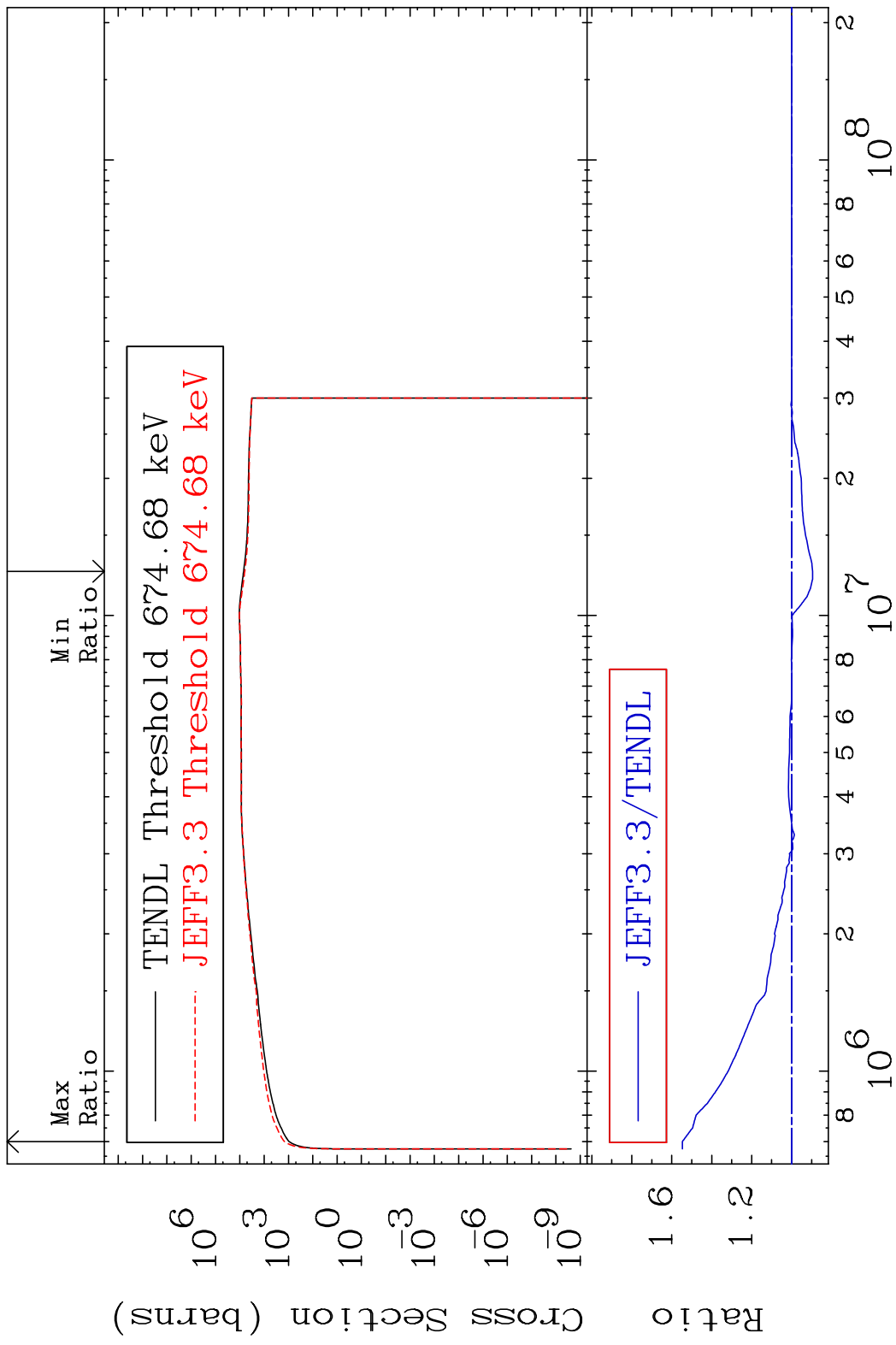
Dpa elastic (mt2)

34-Se-80

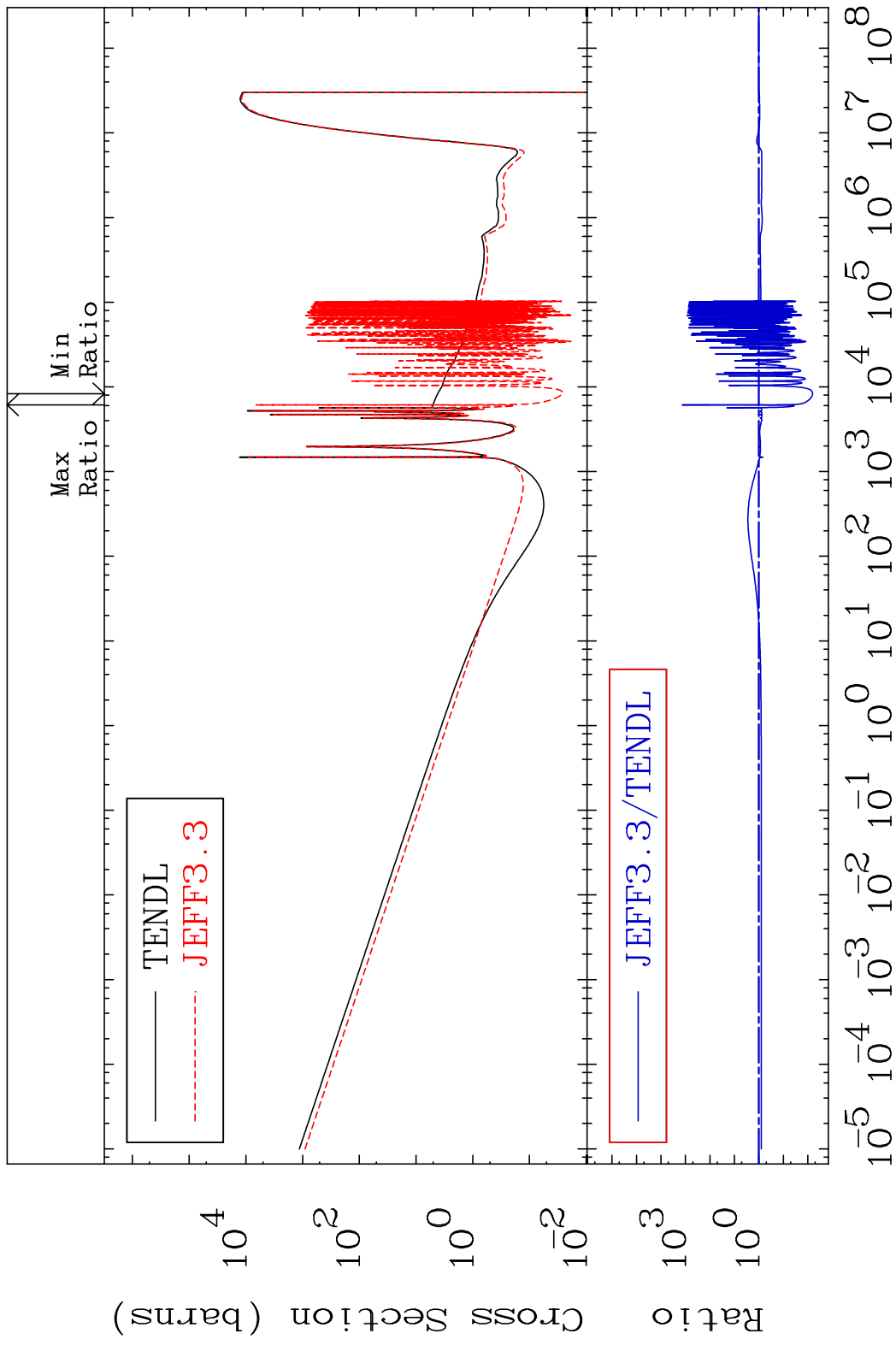
Cross Section -98.73 To 2219. %



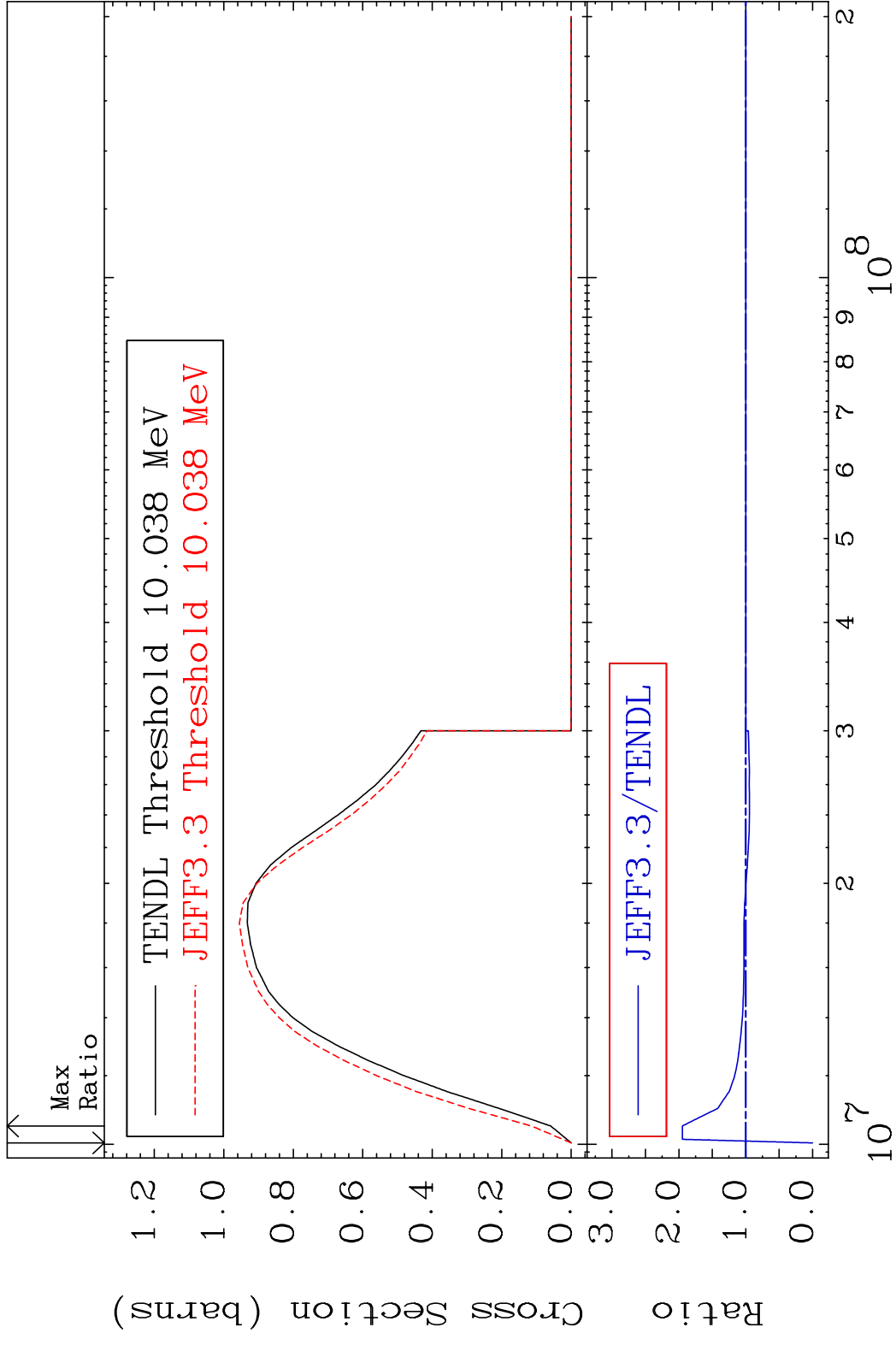
MAT 3443 Dpa inelastic (mt51-91) 34-Se-80
 Cross Section -10.47 To 54.69 %



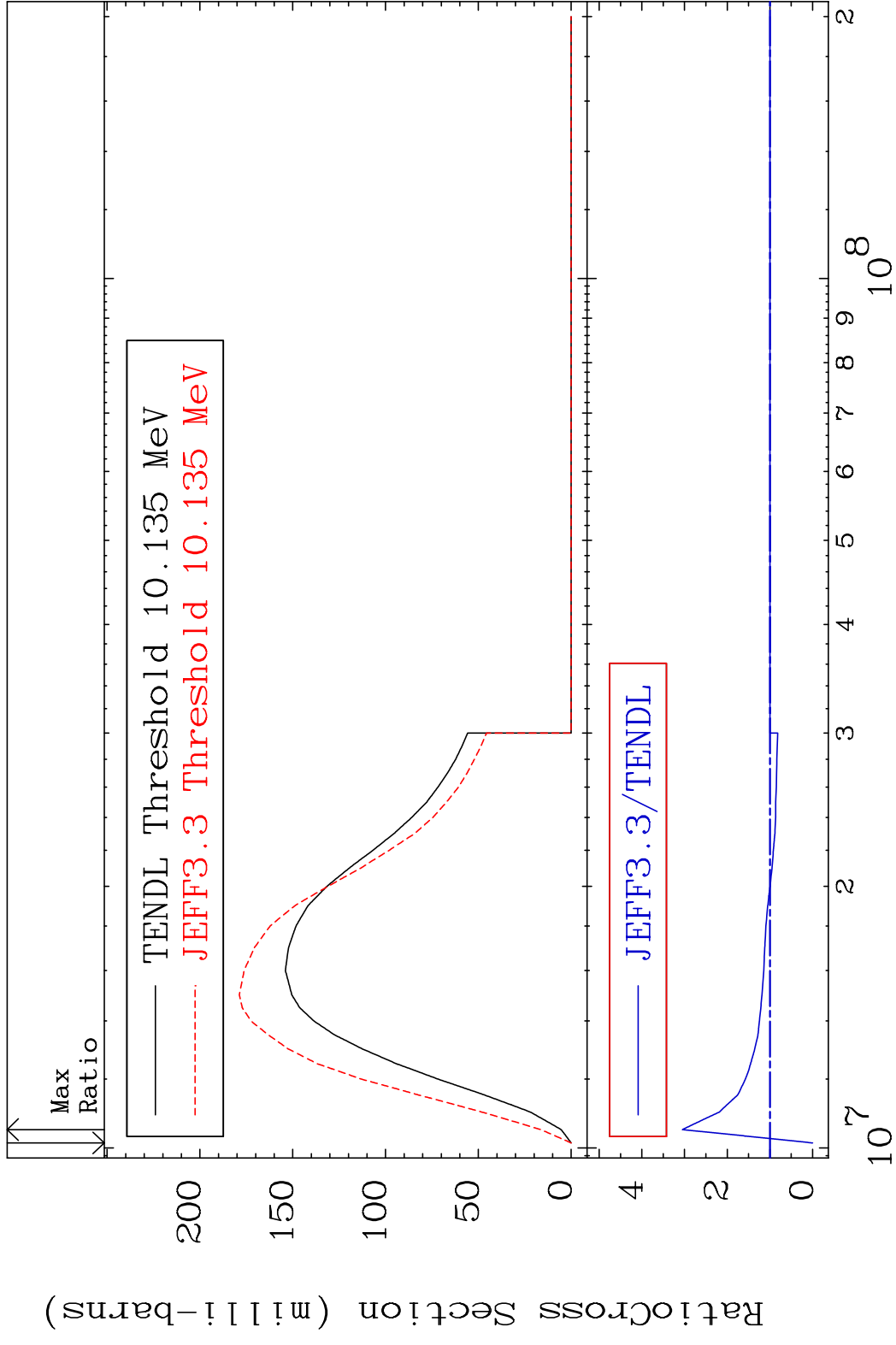
MAT 3443 Dpa disappearance (mt102 -120) 34-Se-80
 Cross Section -99.36 To 9999. %



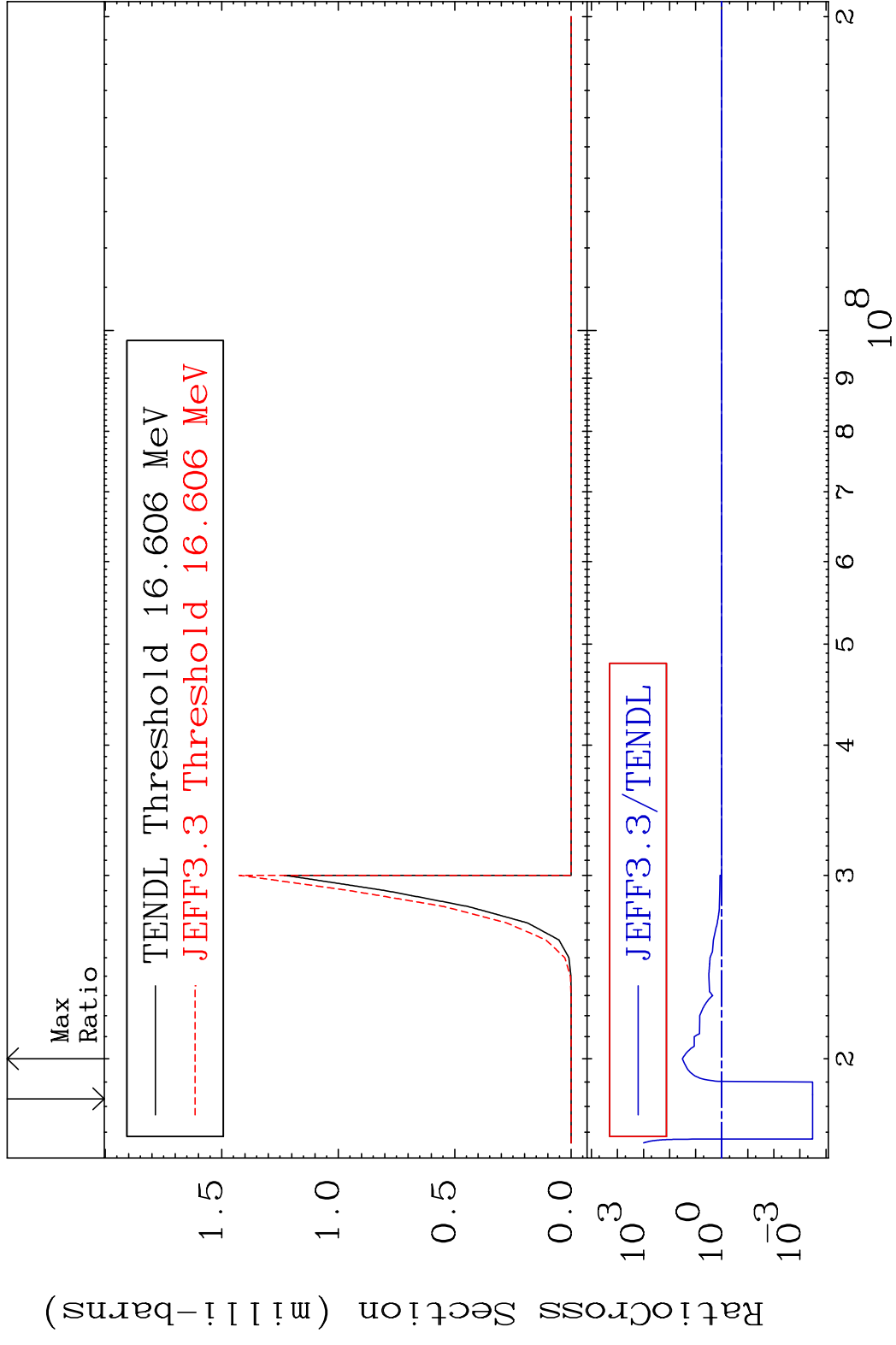
MAT 3443 (n,2n):34-Se-79g 34-Se-80
 Radionuclide Production Cross Section Ratio 94.79 %

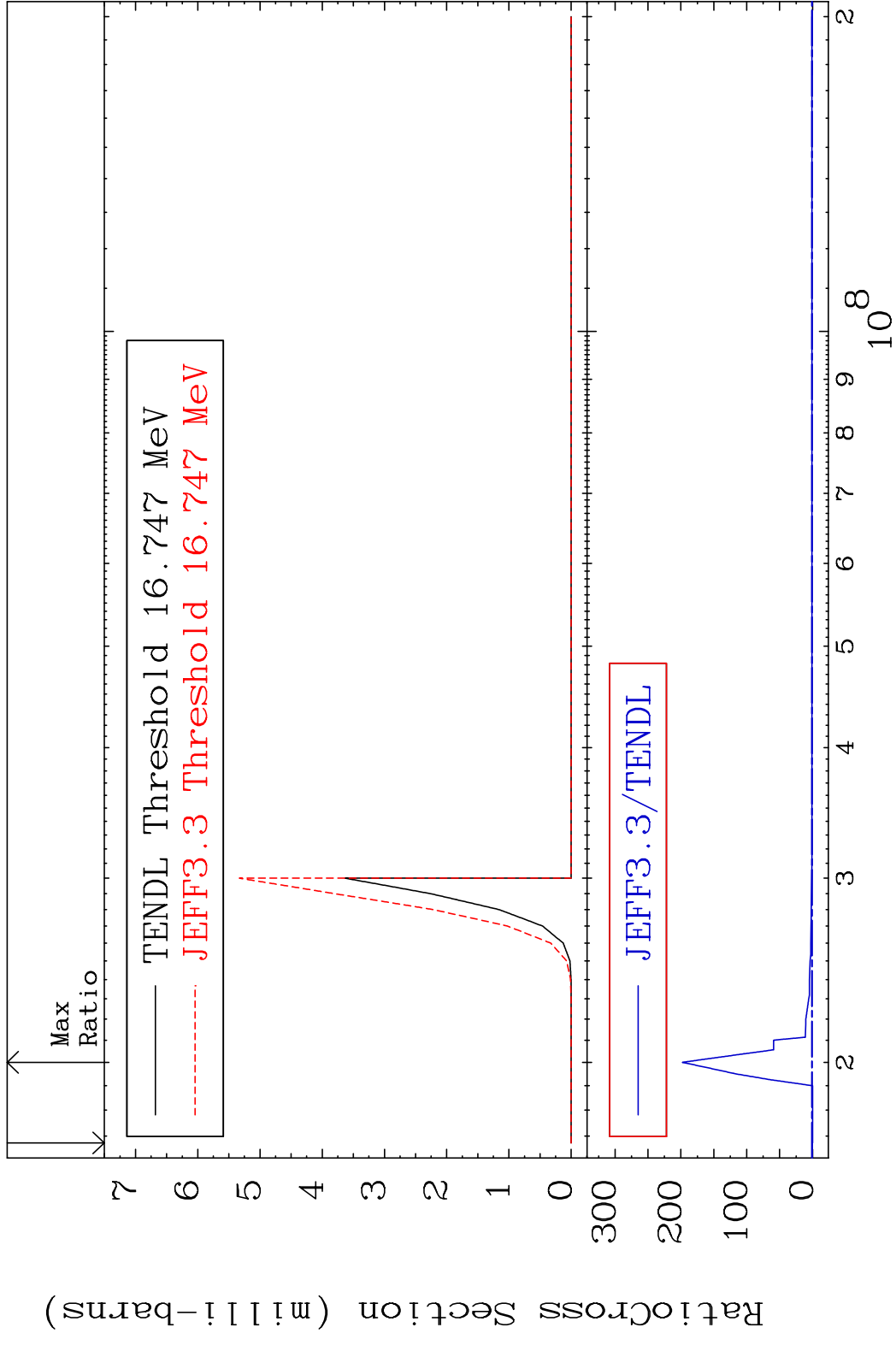


MAT 3443 (n,2n):34-Se-79m1 34-Se-80
 Radionuclide Production Cross Section 180.0 mb 205.1 %

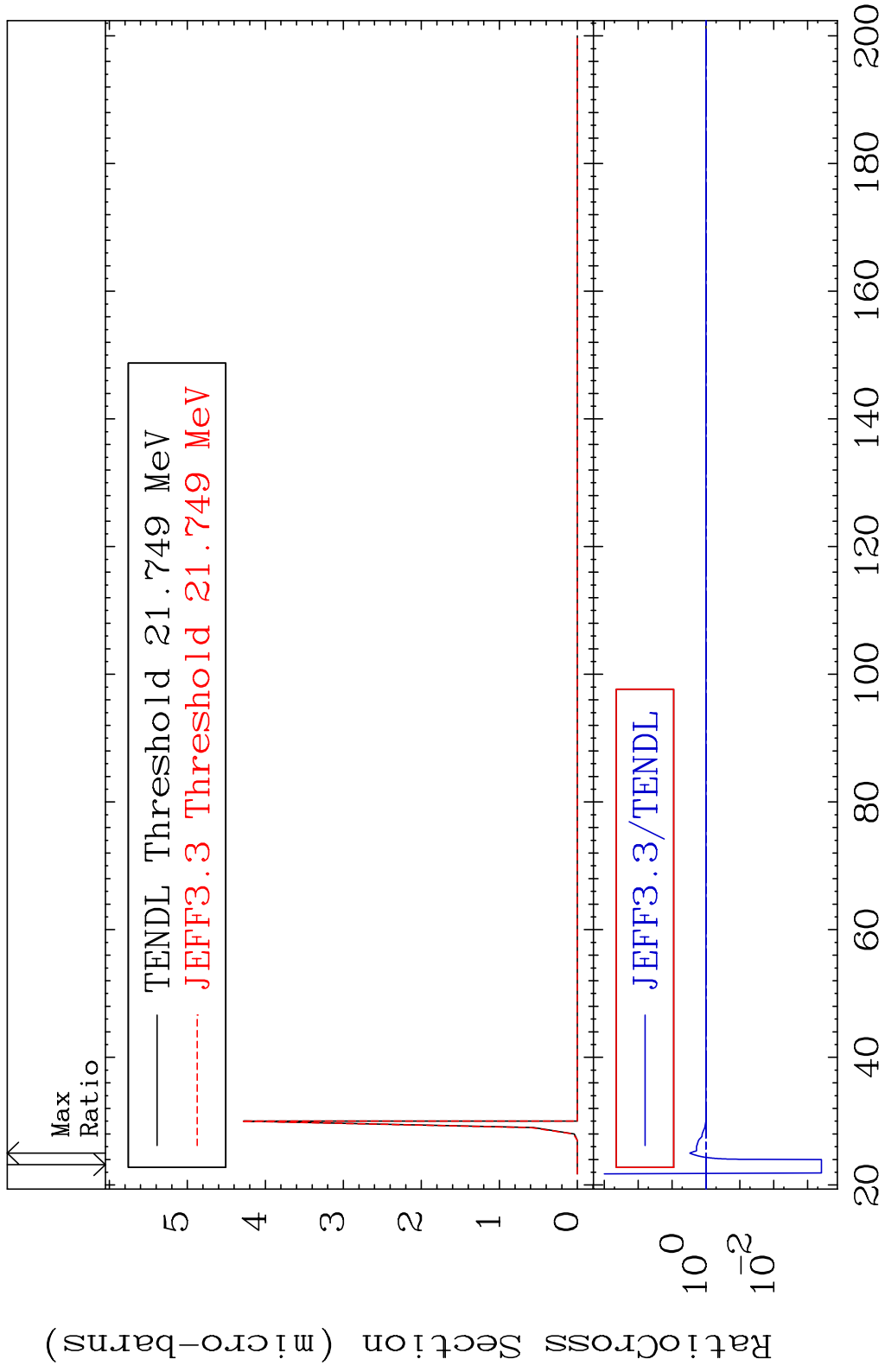


MAT 3443 (n,2n) α :32-Ge-75g 34-Se-80
 Radionuclide Production Cross Section 98.97 d to 3139. %

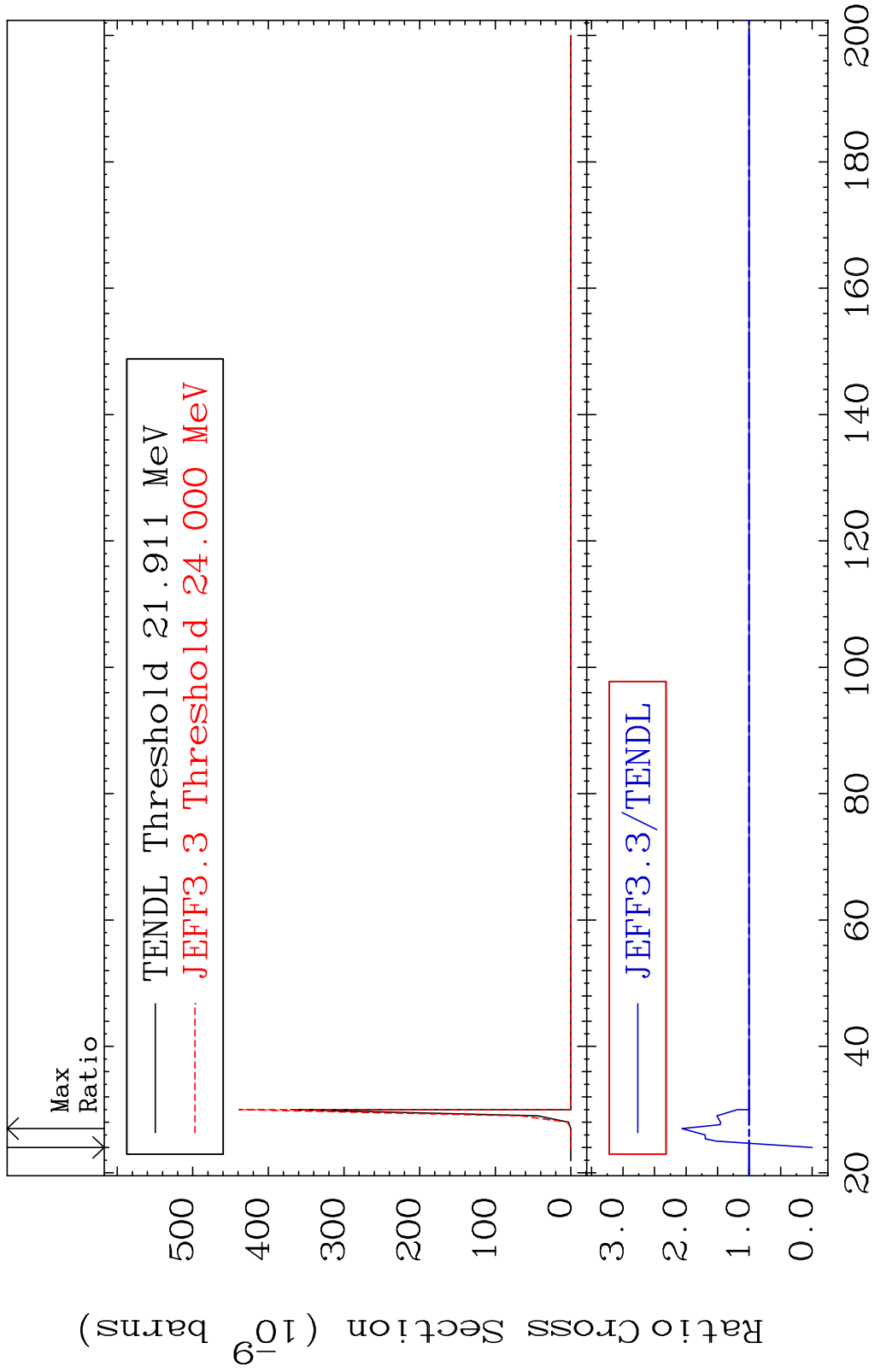




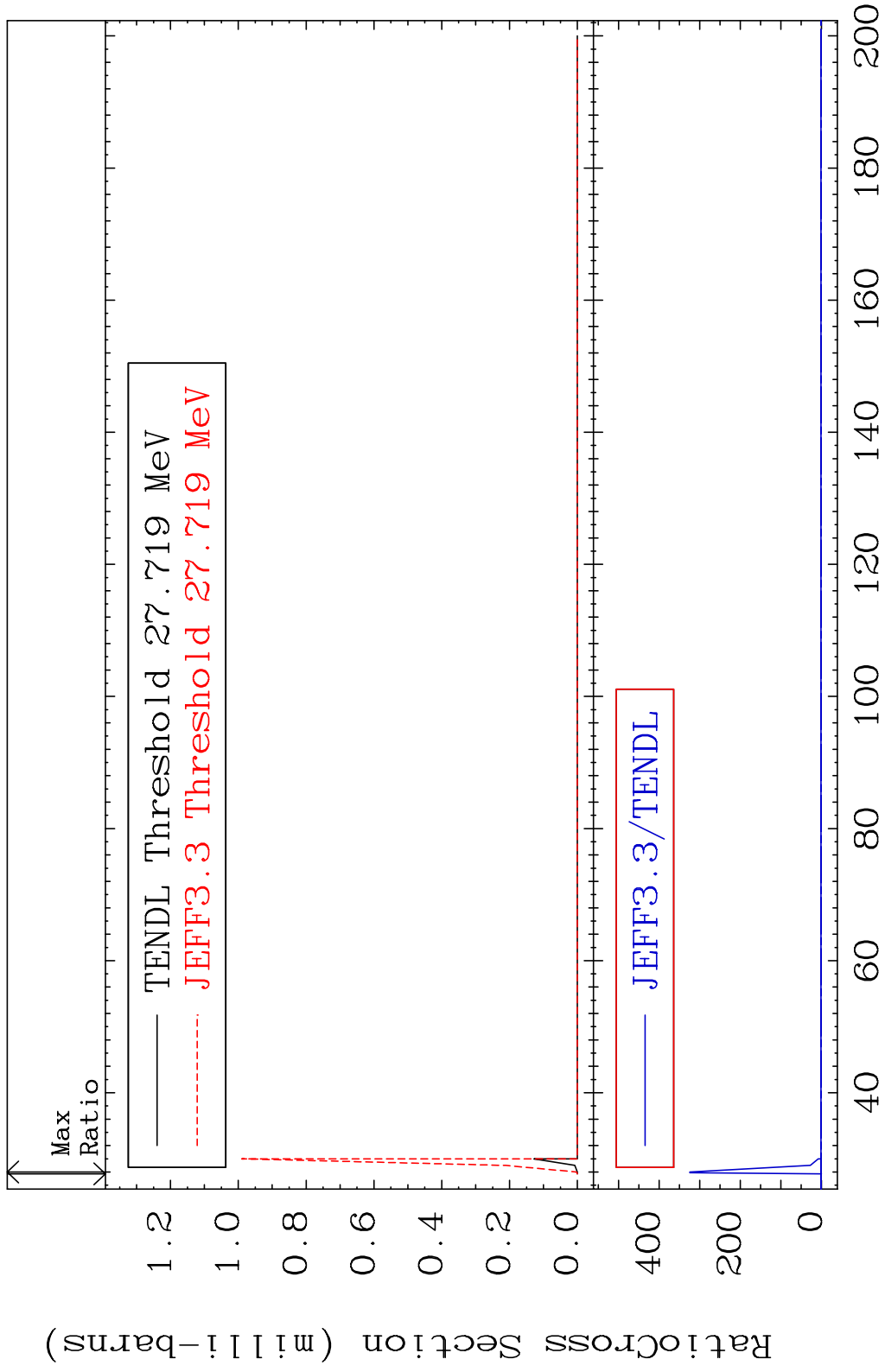
MAT 3443 (n, n') He-3:32-Ge-77g 34-Se-80
 Radionuclide Production Cross Section 98.961 dth 199.3 %



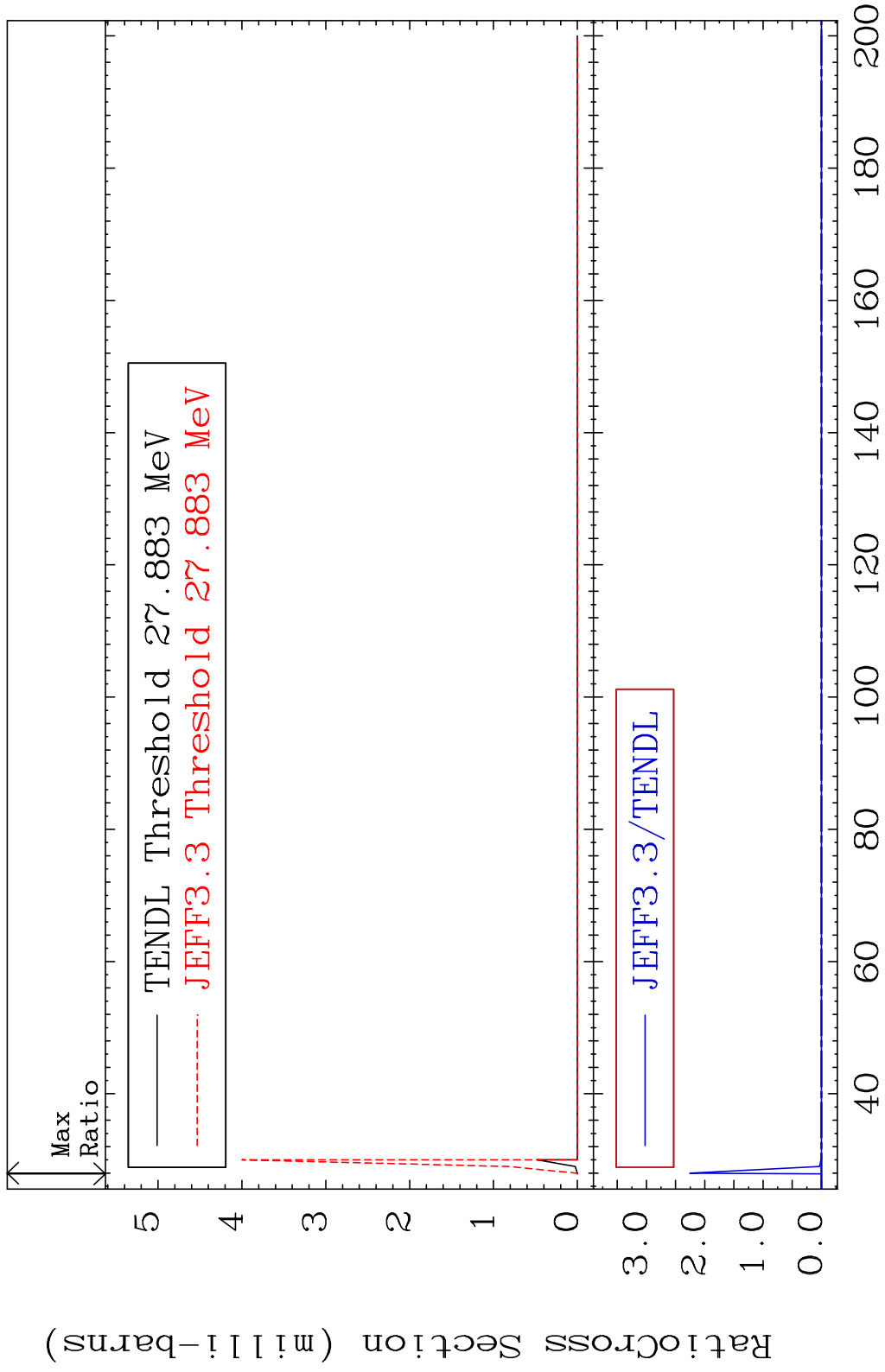
MAT 3443 (n, n') He-3:32-Ge-77m1 34-Se-80
 Radionuclide Production Cross Section 100.0 dth 106.5 %



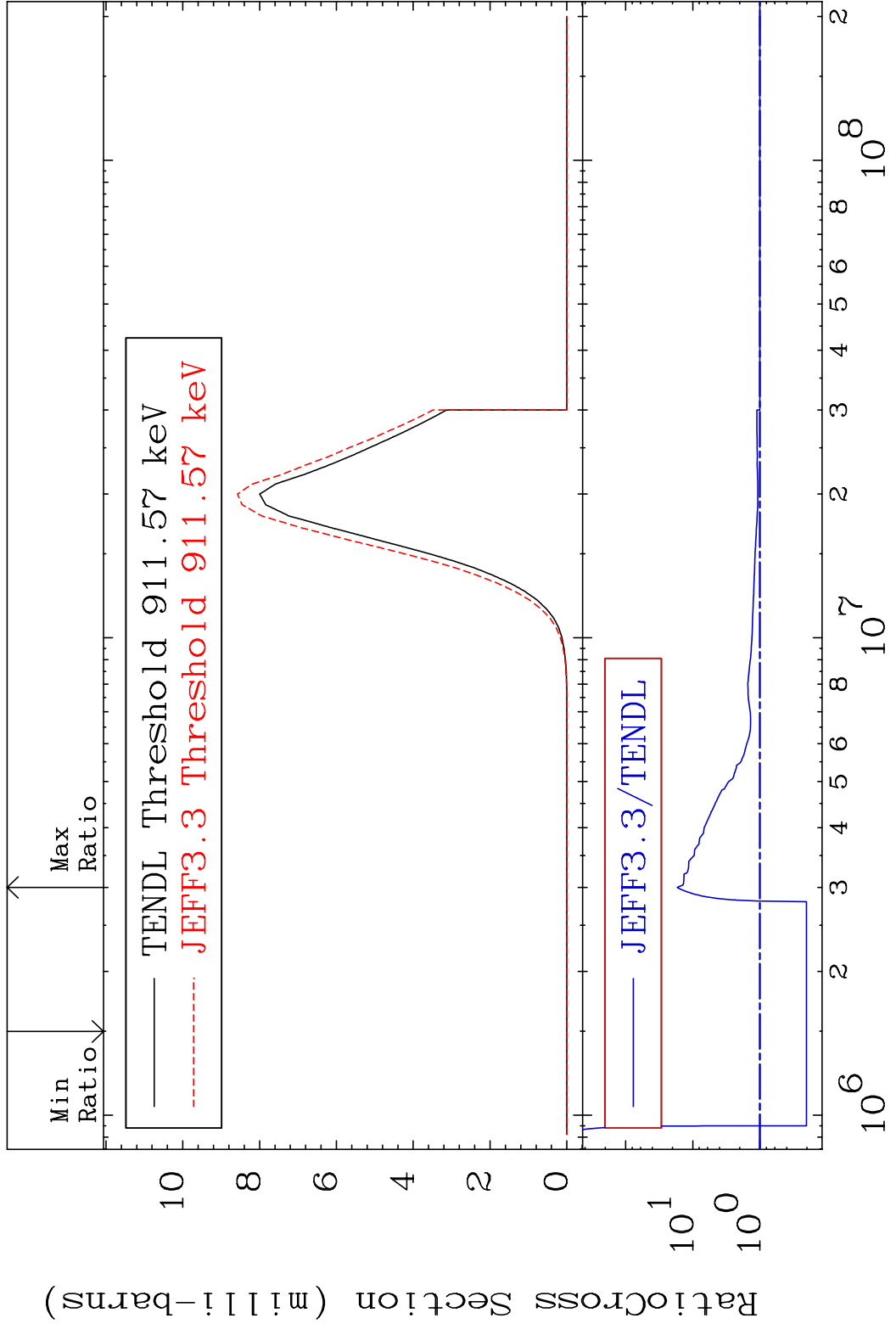
70 Incident Energy (MeV) 34-Se-80



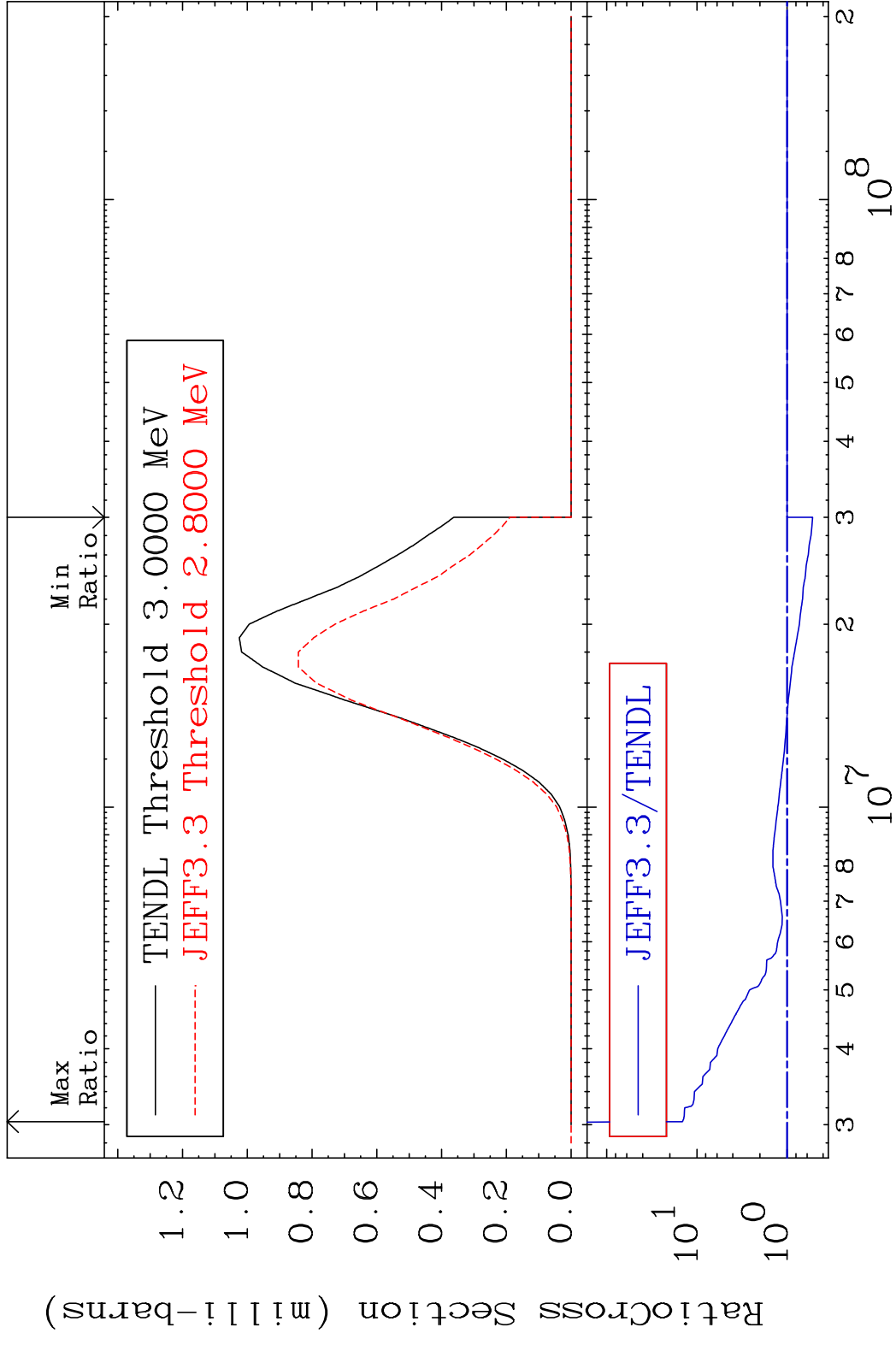
MAT 3443 (n,4n):34-Se-77m1 34-Se-80
 Radionuclide Production Cross Section Ratio 9999. %



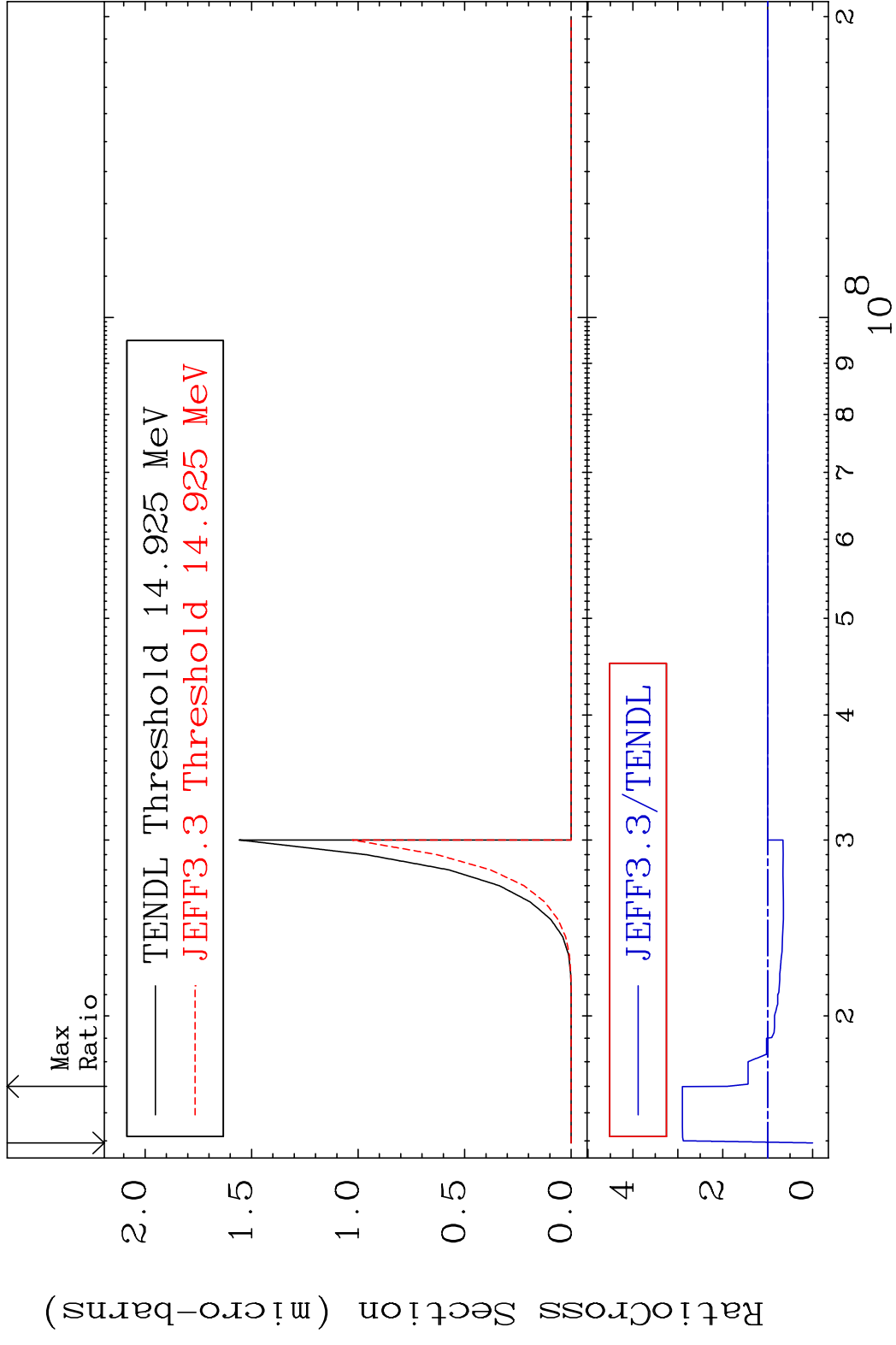
MAT 3443 (n, α): 32-Ge-77g 34-Se-80
 Radionuclide Production Cross Section 1605. %



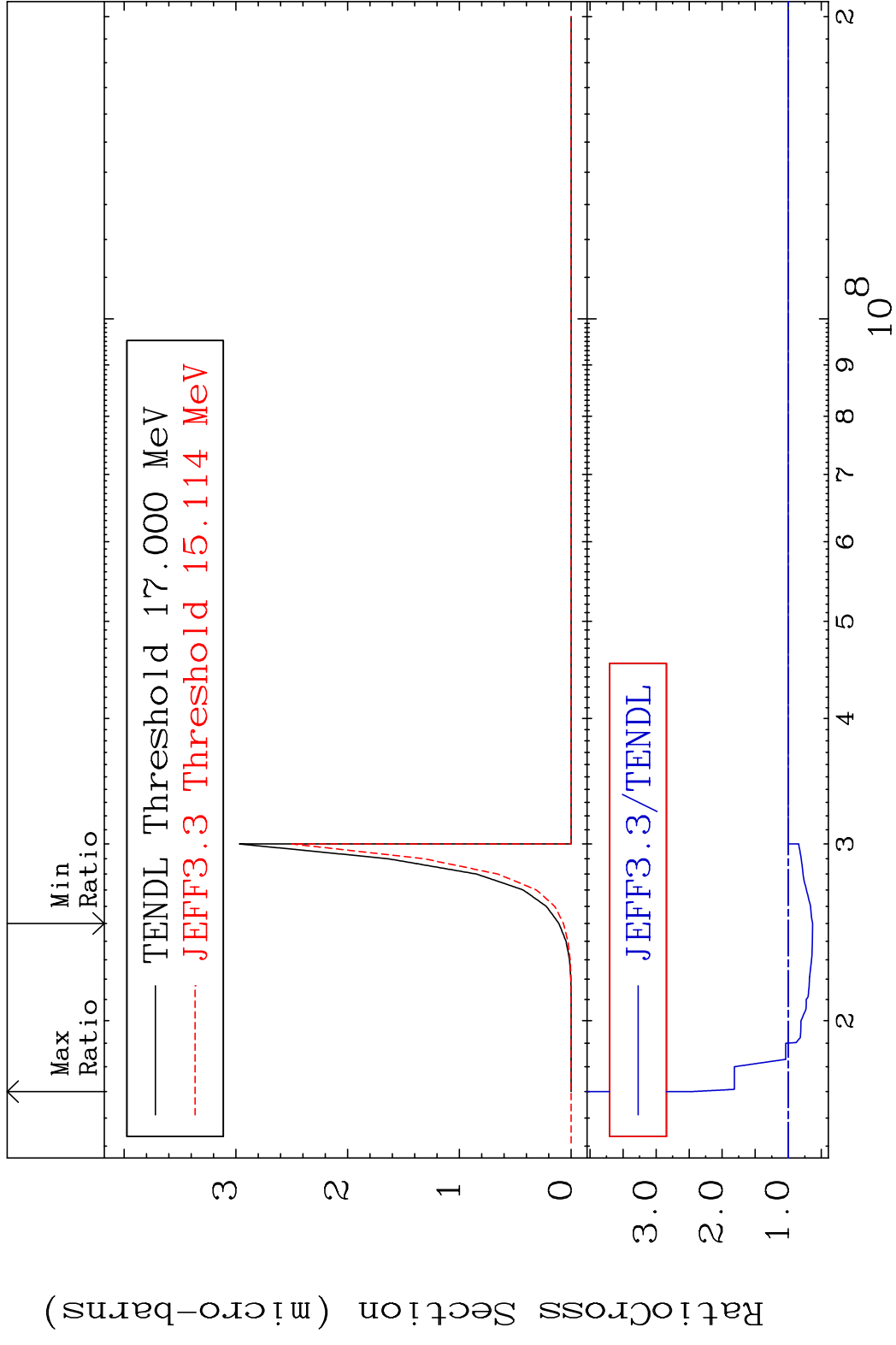
73 Incident Energy (eV) 34-Se-80



MAT 3443 (n,2p):32-Ge-79g 34-Se-80
 Radionuclide Production Cross Section Ratio 189.8 %



MAT 3443 (n,2p):32-Ge-79m1 34-Se-80
 Radionuclide Production Cross Section 160.2 %



MAT 3443 (n,p) t:32-Ge-77m1 34-Se-80
 Radionuclide Production Cross Section 180.0 dno 510.0 %

