

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

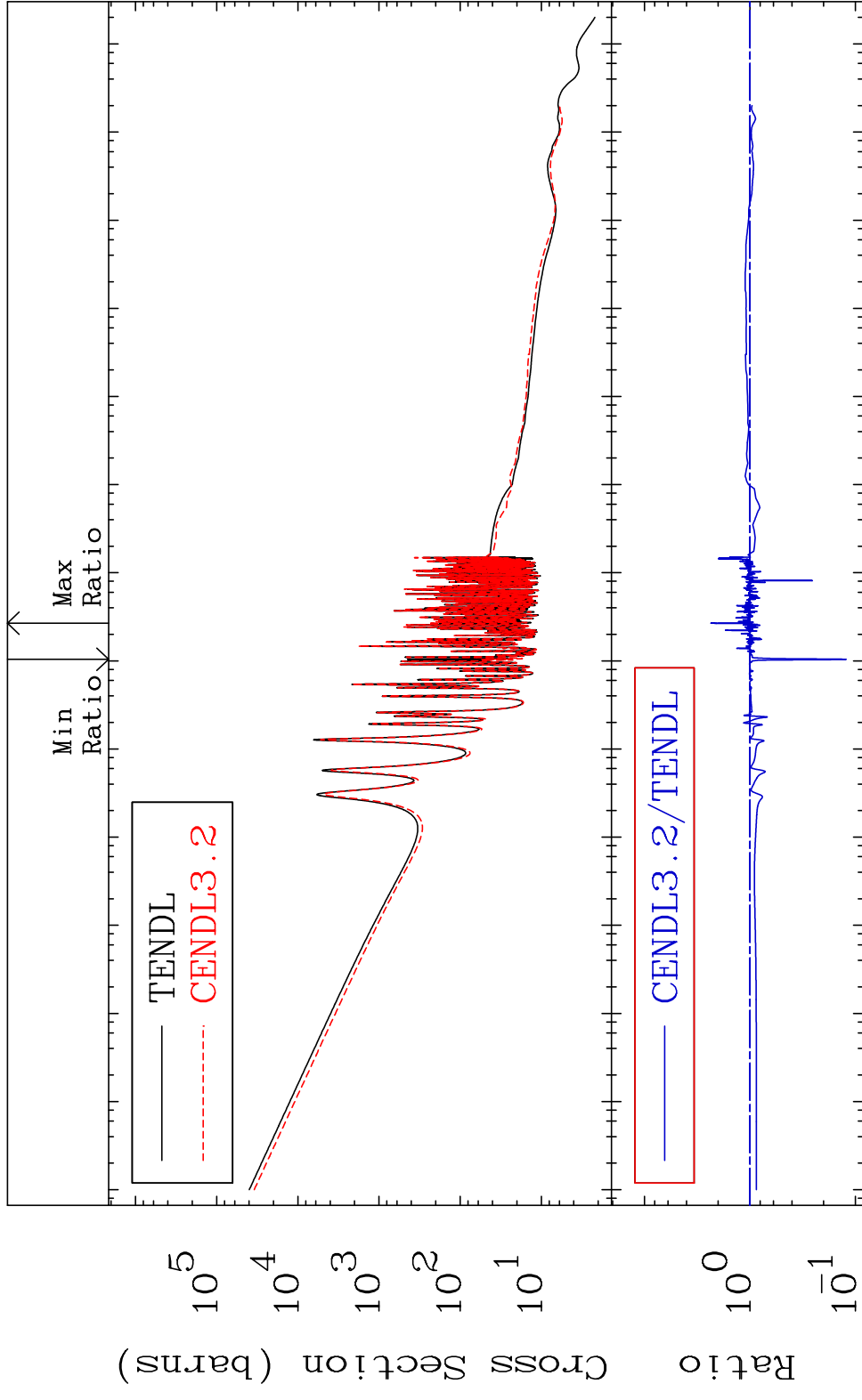
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 9543

Total Cross Section -87.81 To 135.5 %

95-Am-241

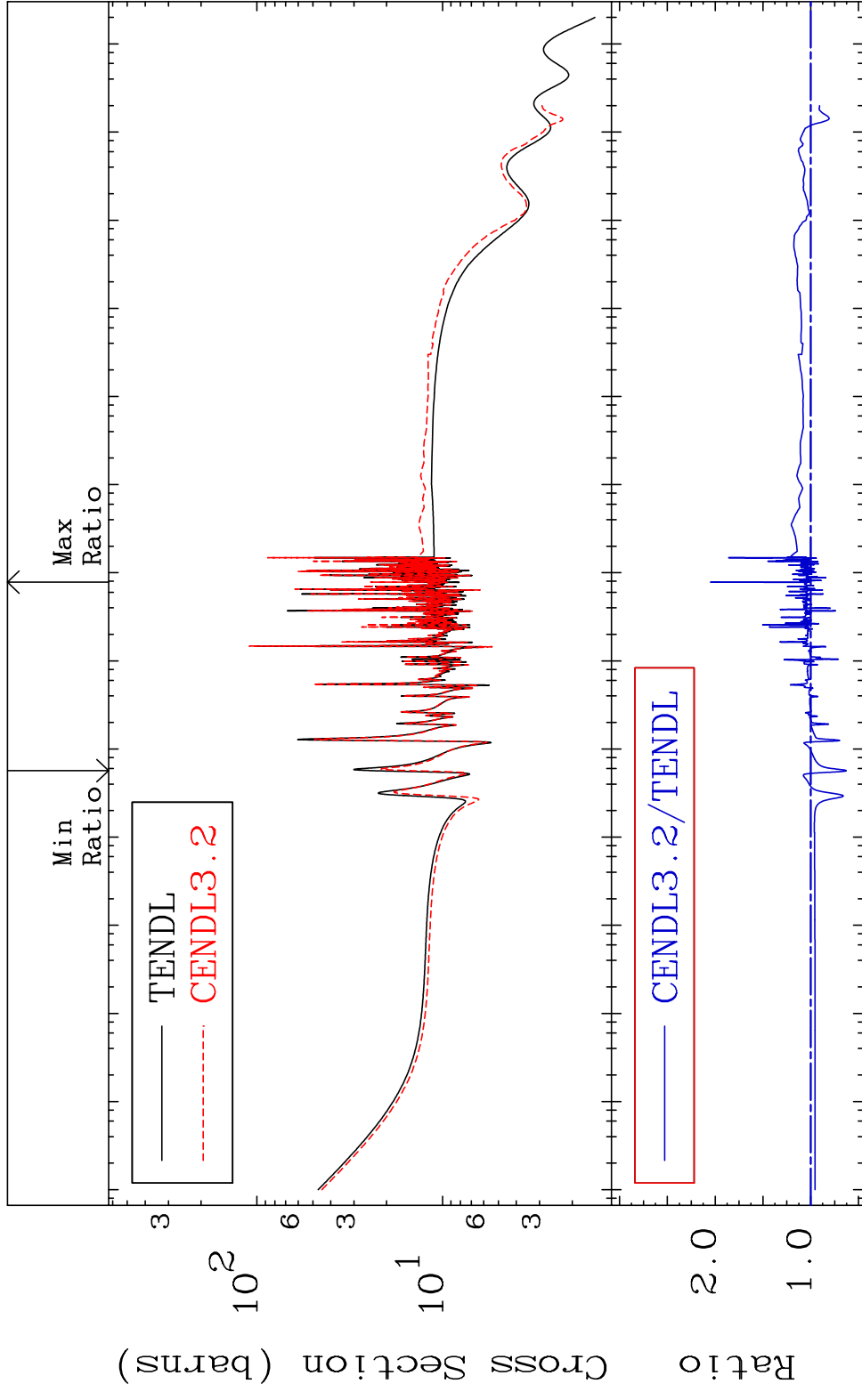


1 Incident Energy (eV) 95-Am-241

MAT 9543

Elastic  
Cross Section -37.22 To 104.6 %

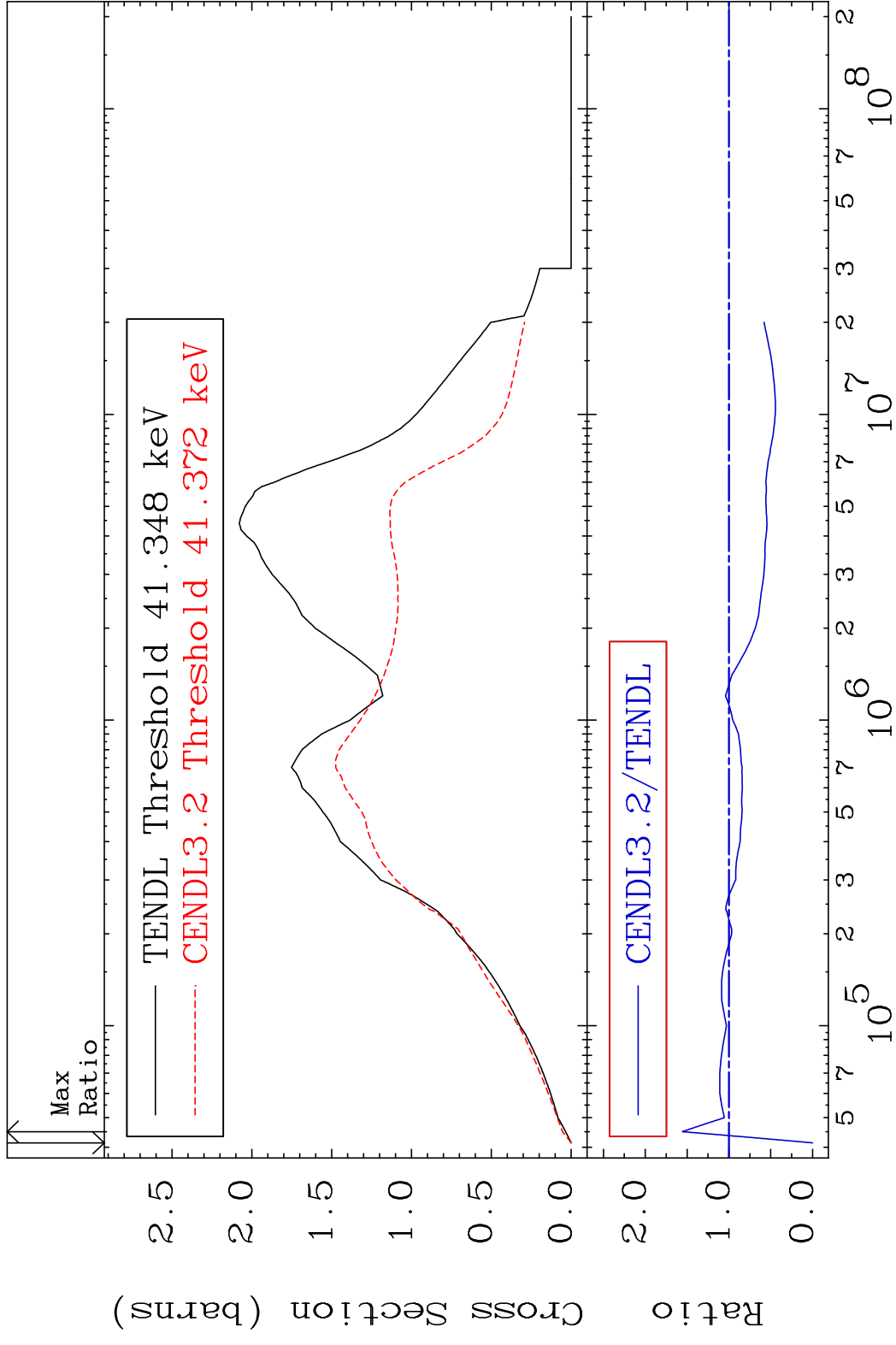
95-Am-241



95-Am-241

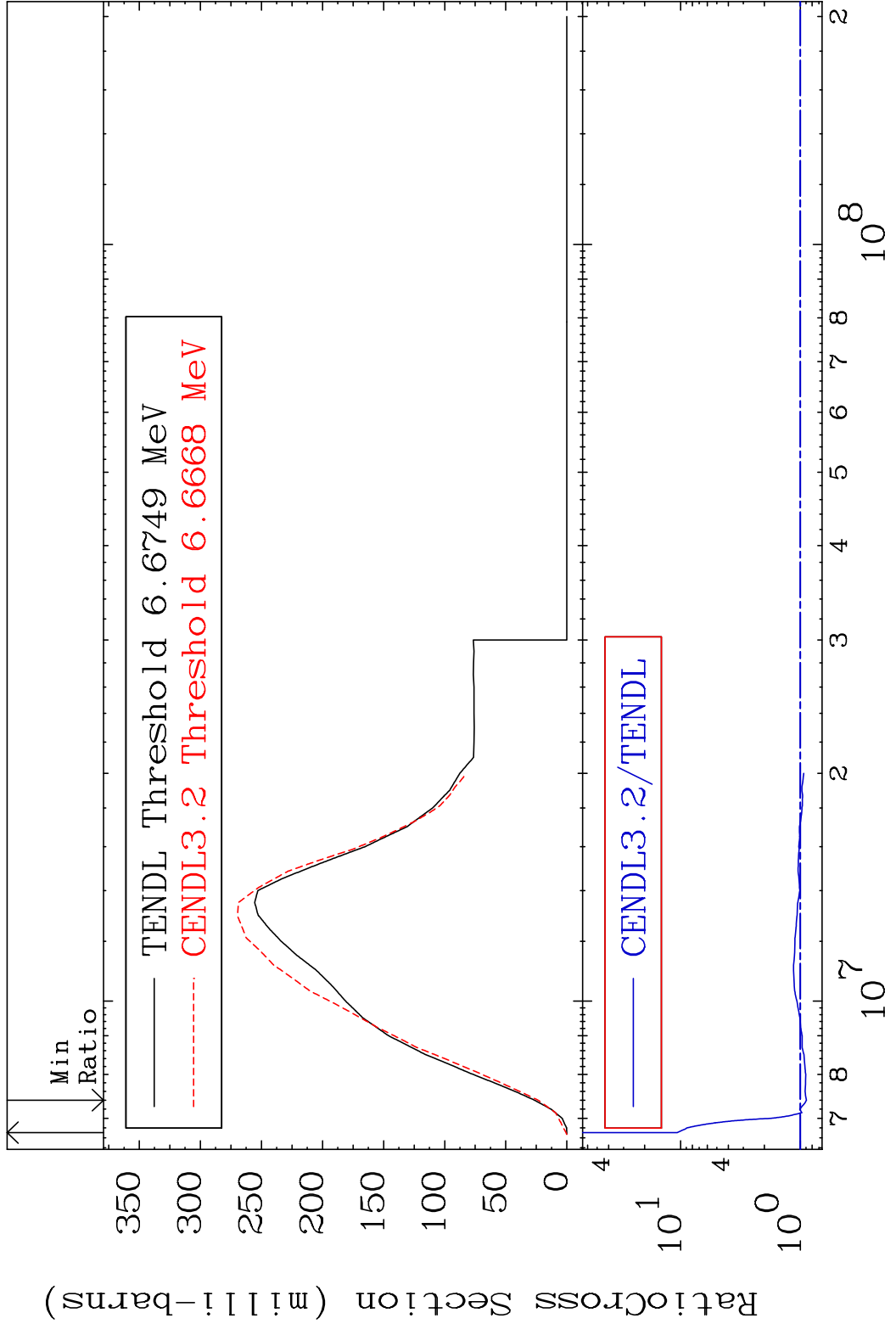
Incident Energy (eV)

MAT 9543 Inelastic 95-Am-241  
 Cross Section -100.0 To 55.63 %



3 Incident Energy (eV) 95-Am-241

MAT 9543 (n,2n) 95-Am-241  
 Cross Section -10.88 To 970.5 %



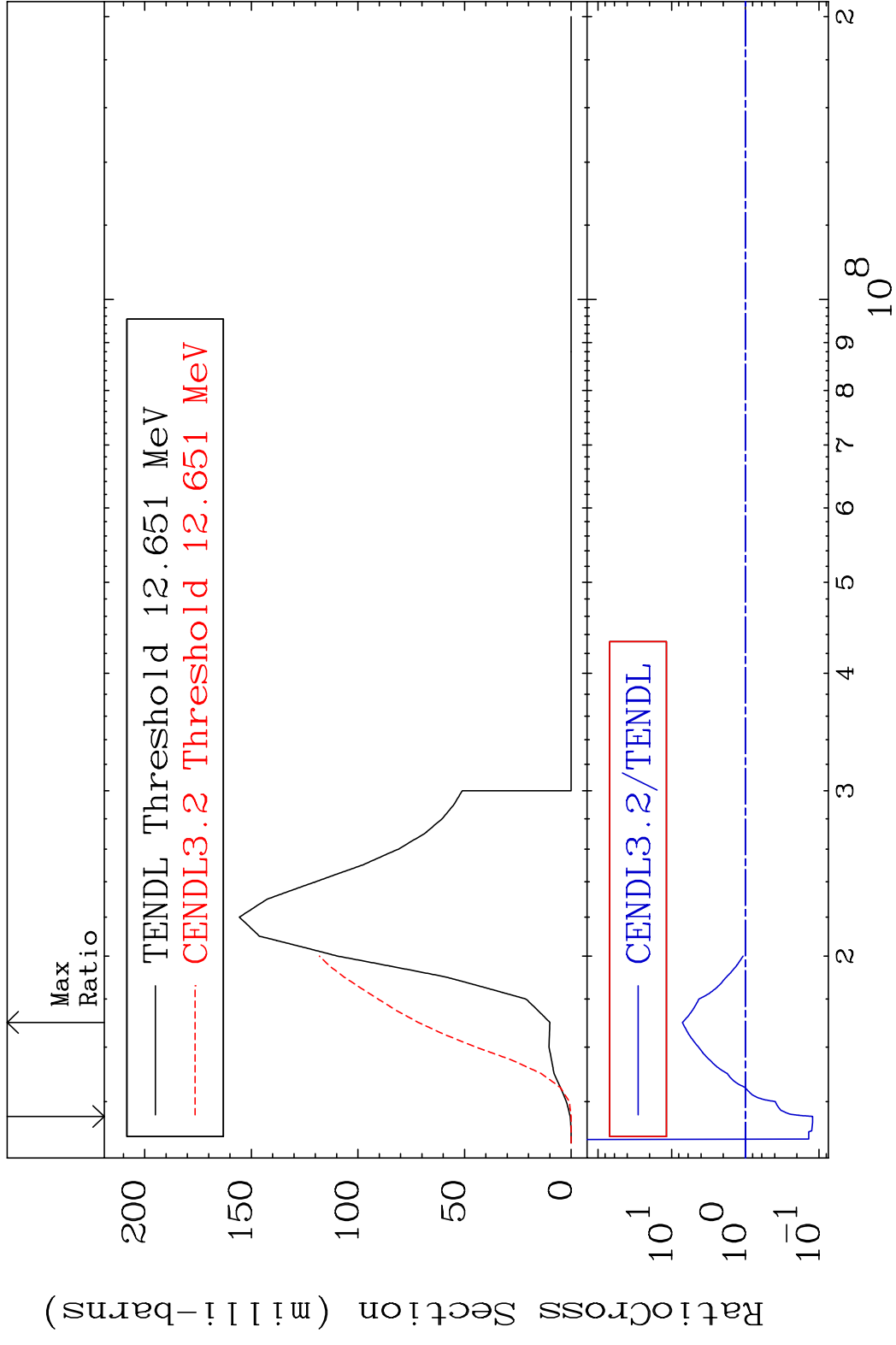
4 7 8 10<sup>7</sup> 10<sup>8</sup> 2  
 Incident Energy (eV) 95-Am-241

MAT 9543

(n,3n)

95-Am-241

Cross Section -87.74 To 616.5 %



5

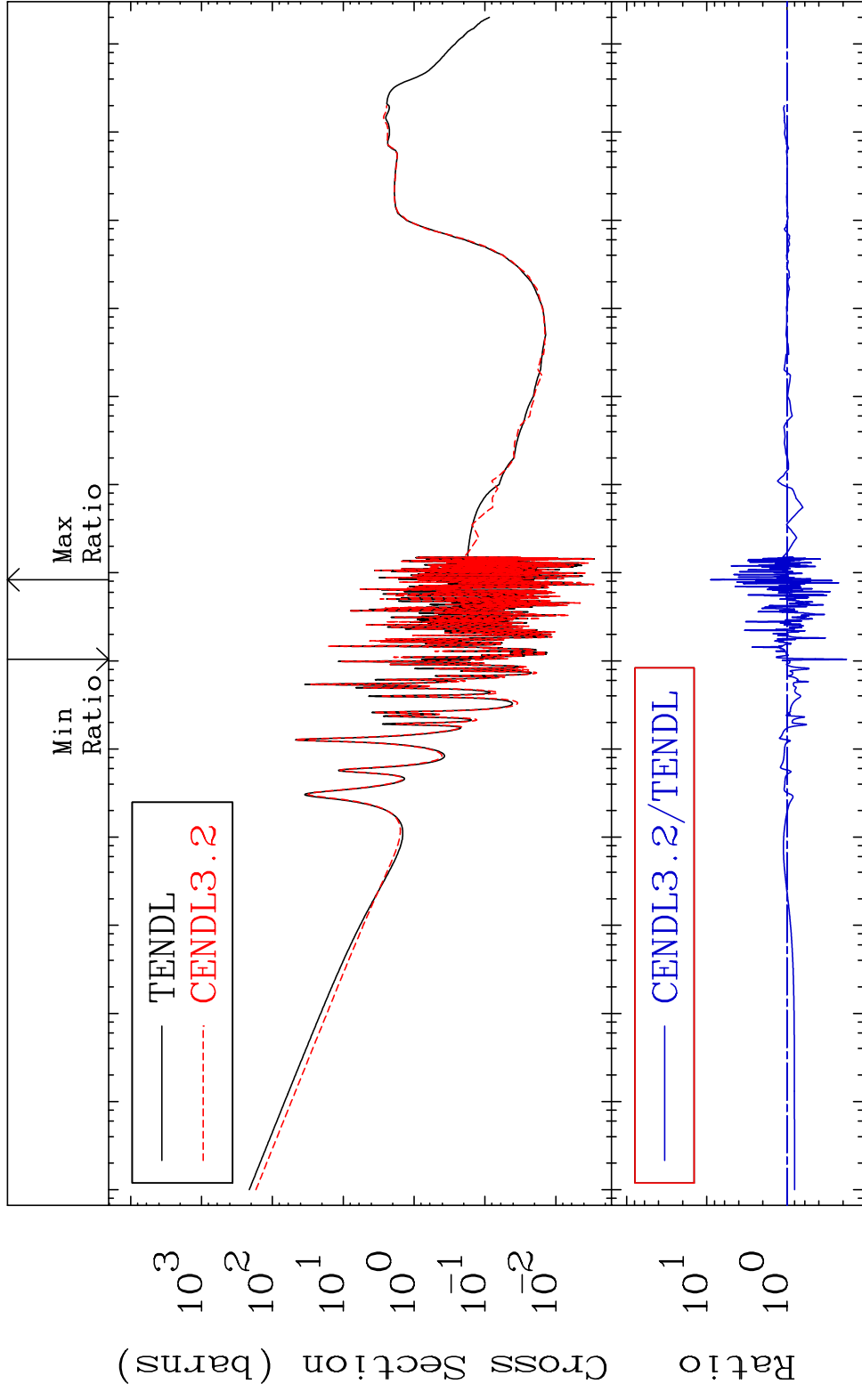
Incident Energy (eV)

95-Am-241

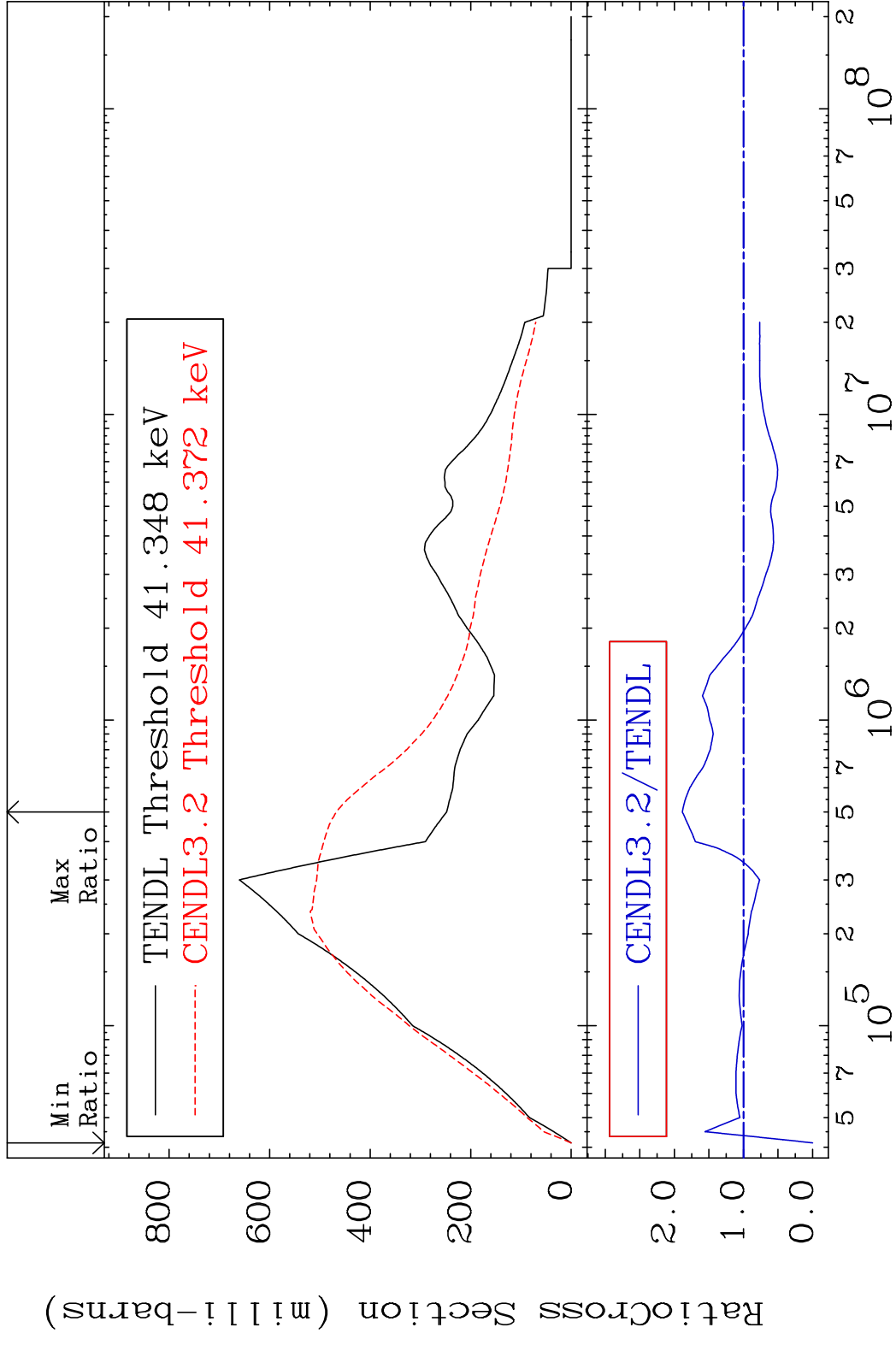
MAT 9543

Fission  
Cross Section -81.86 To 793.8 %

95-Am-241

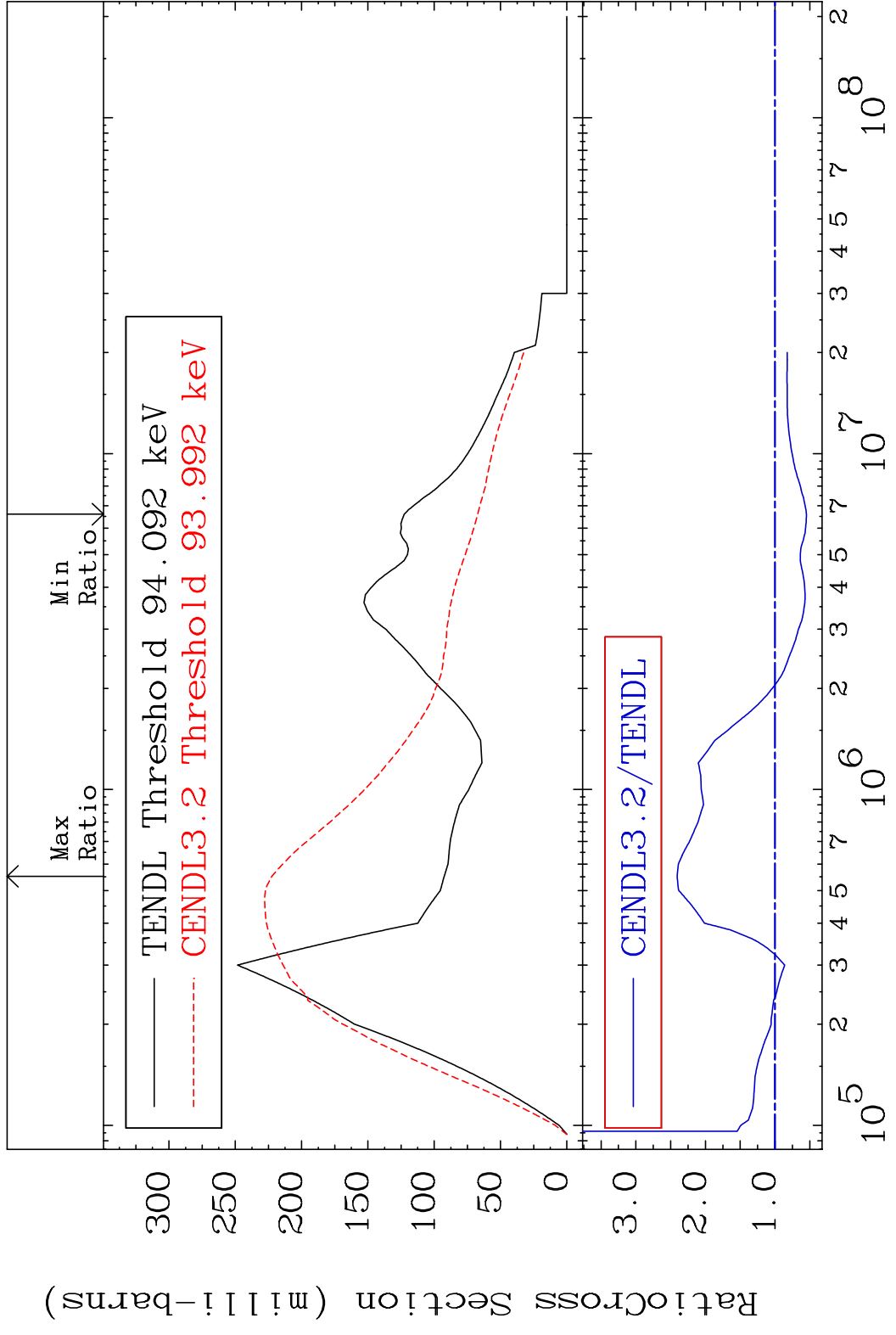


MAT 9543 MT= 51 (n, n') Level 95-Am-241  
 Cross Section -100.0 To 88.48 %



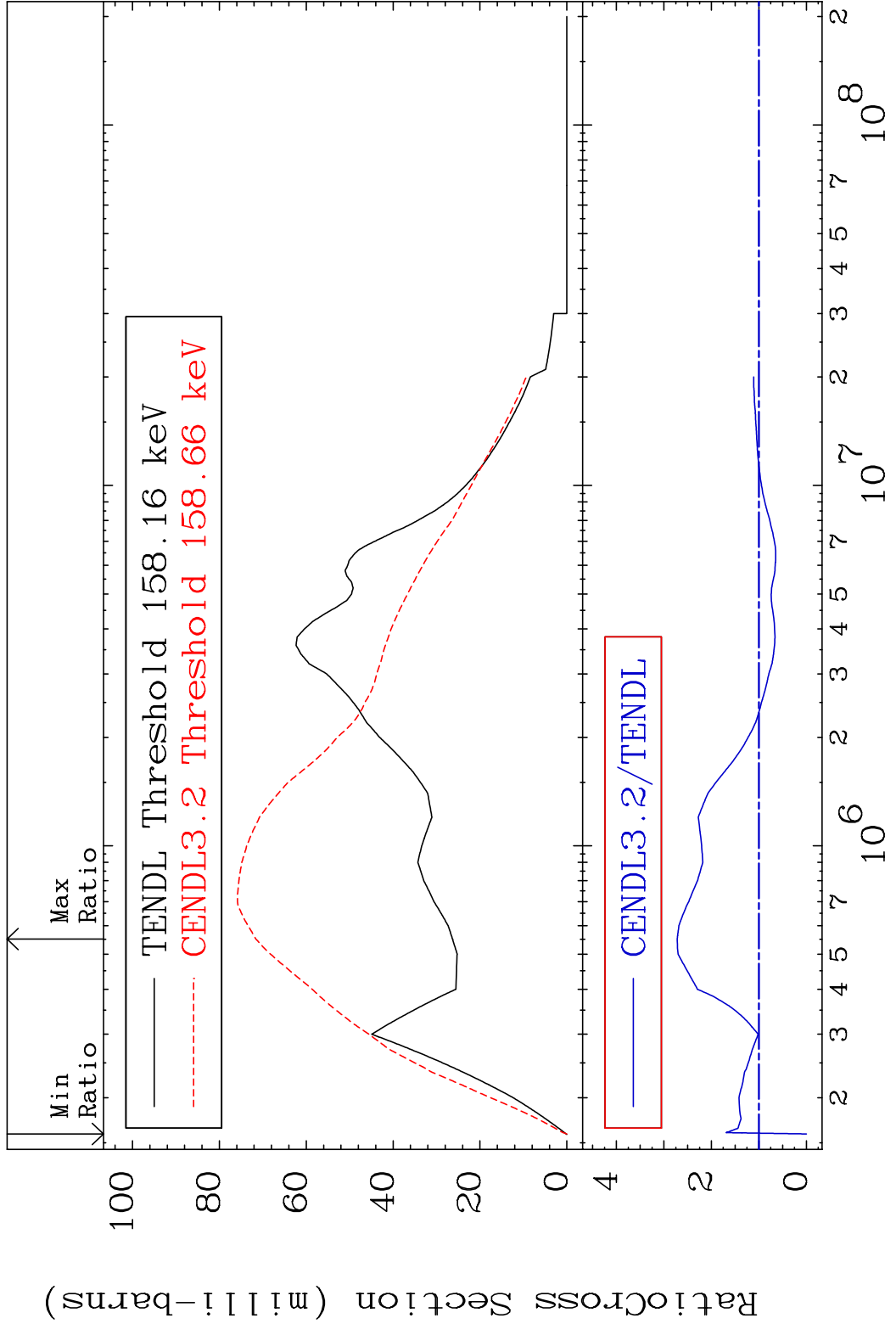
7 Incident Energy (eV) 95-Am-241

MAT 9543 MT= 52 (n, n') Level 95-Am-241  
 Cross Section -45.12 To 140.6 %

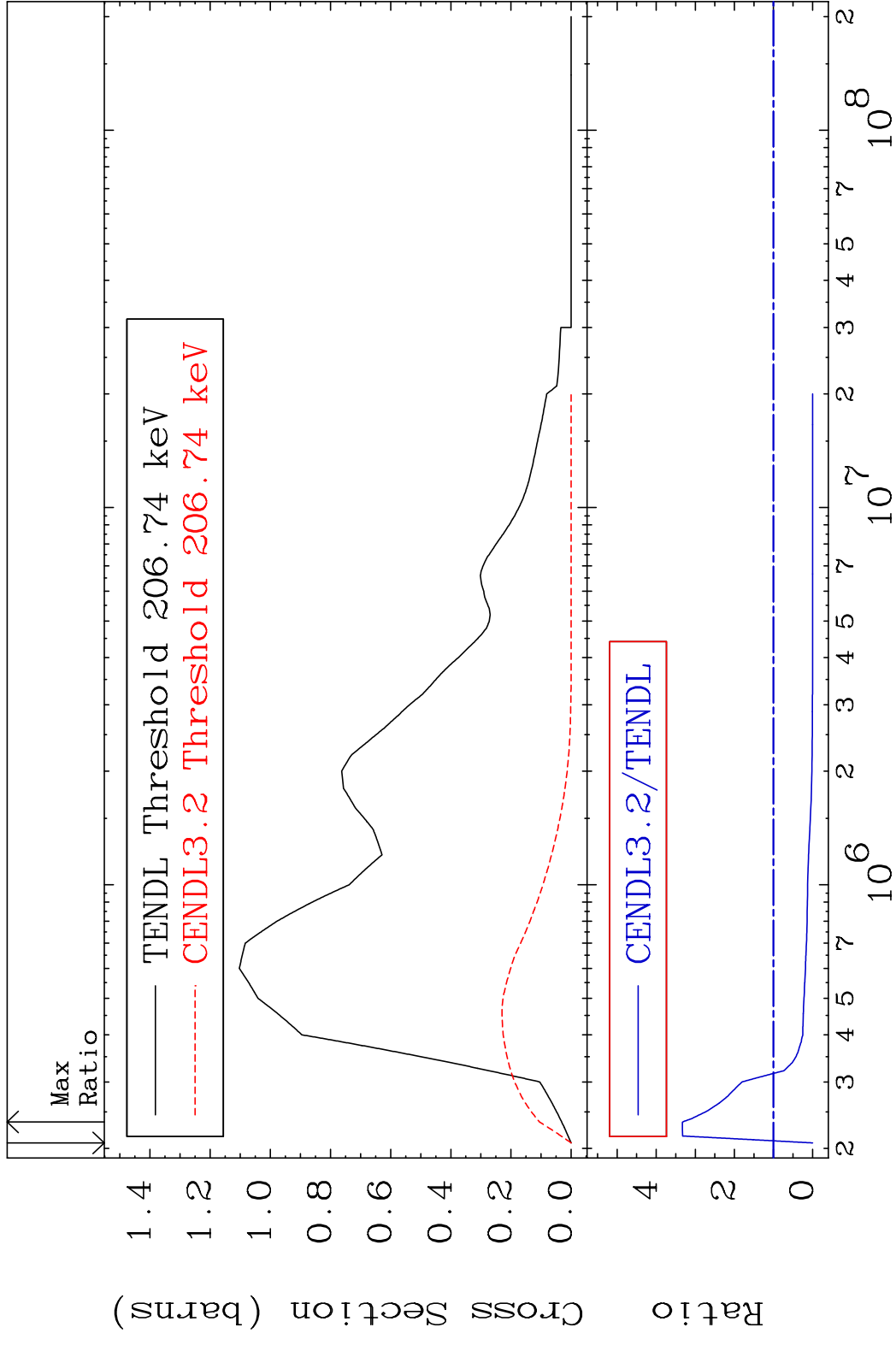


8 Incident Energy (eV) 95-Am-241

MAT 9543 MT= 53 (n, n') Level 95-Am-241  
 Cross Section -100.0 To 172.0 %

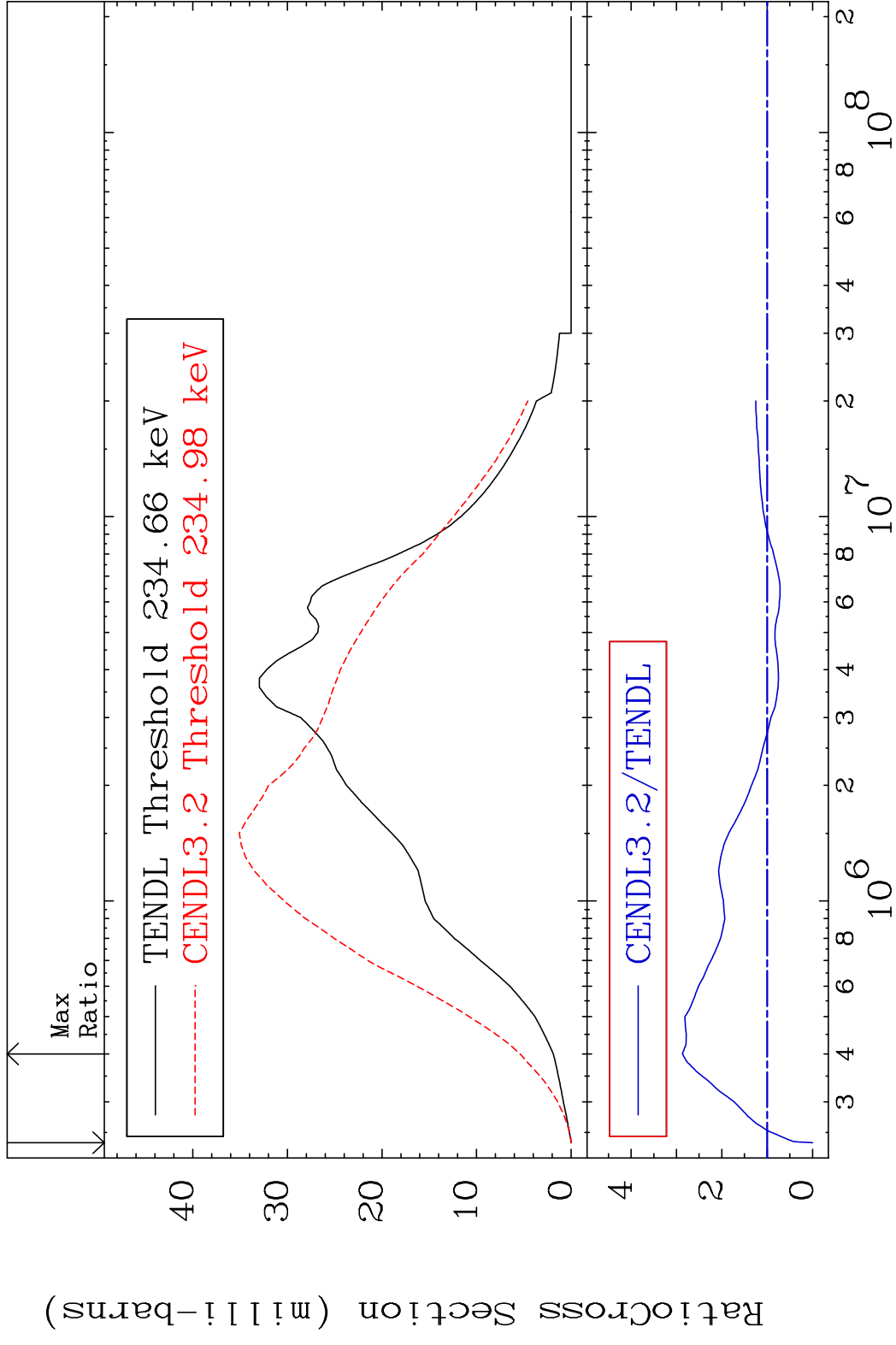


MAT 9543 MT= 54 (n, n') Level 95-Am-241  
 Cross Section -100.0 To 233.1 %

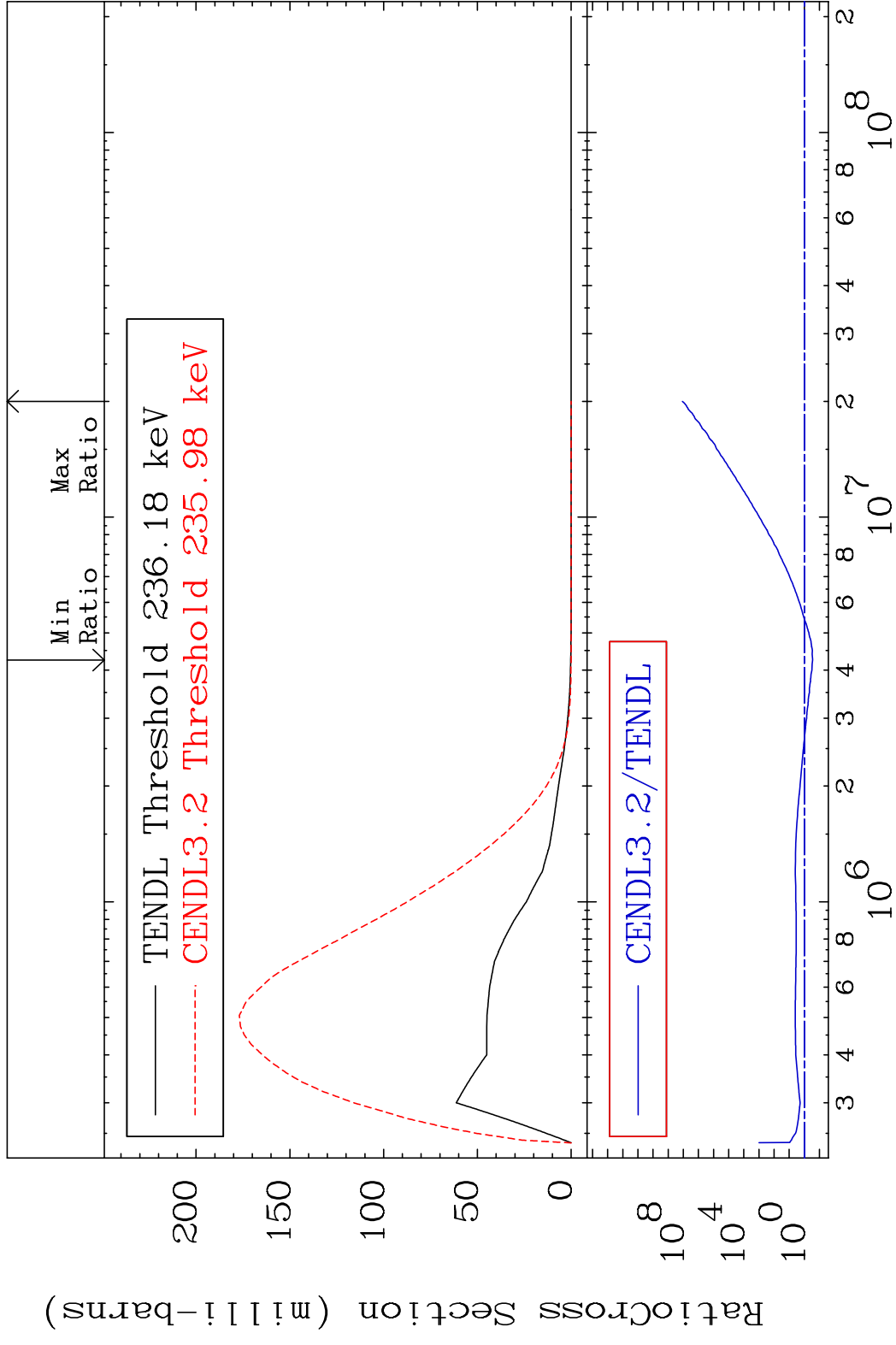


10 Incident Energy (eV) 95-Am-241

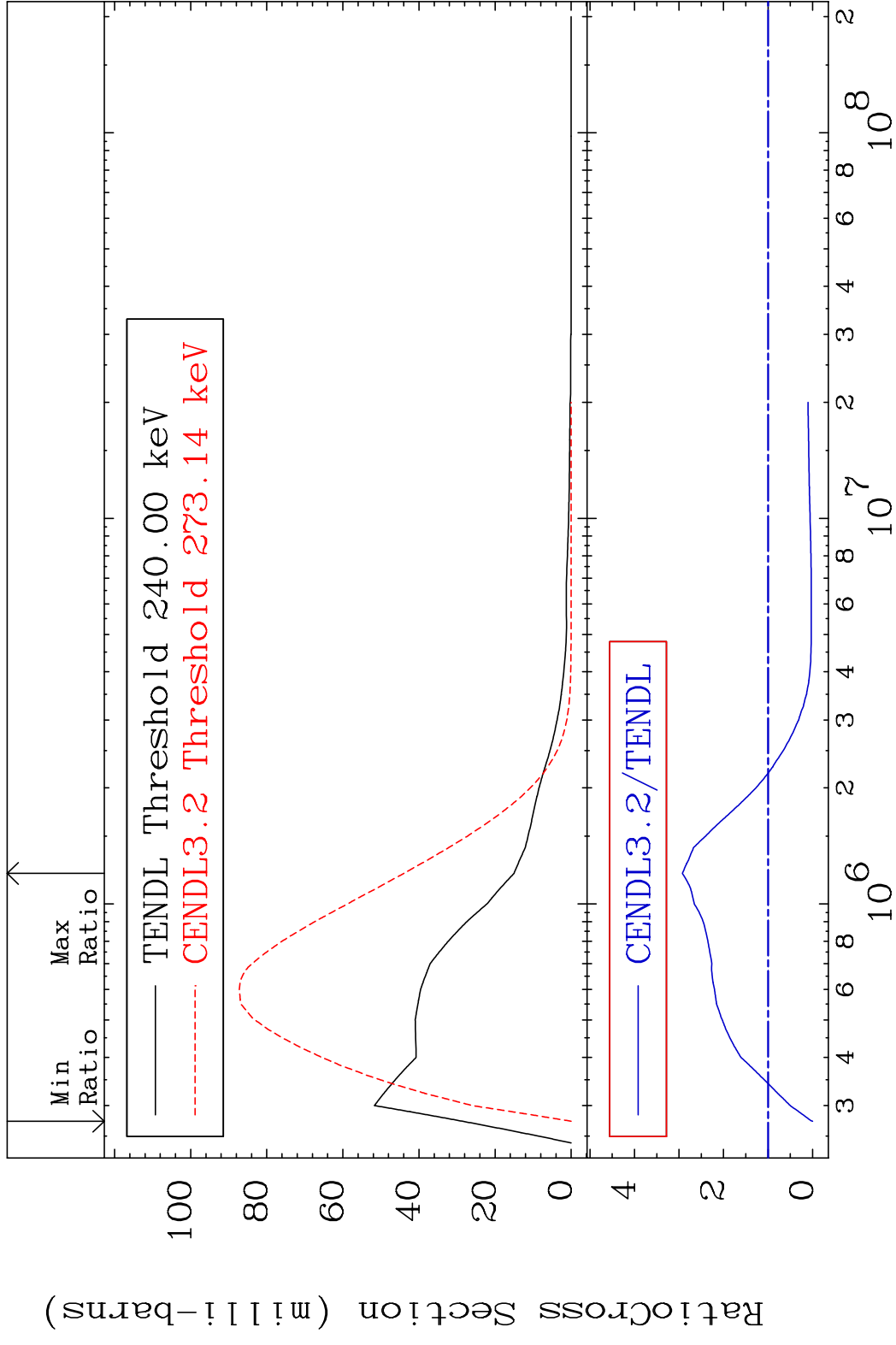
MAT 9543 MT= 55 (n, n') Level 95-Am-241  
 Cross Section -100.0 To 187.0 %



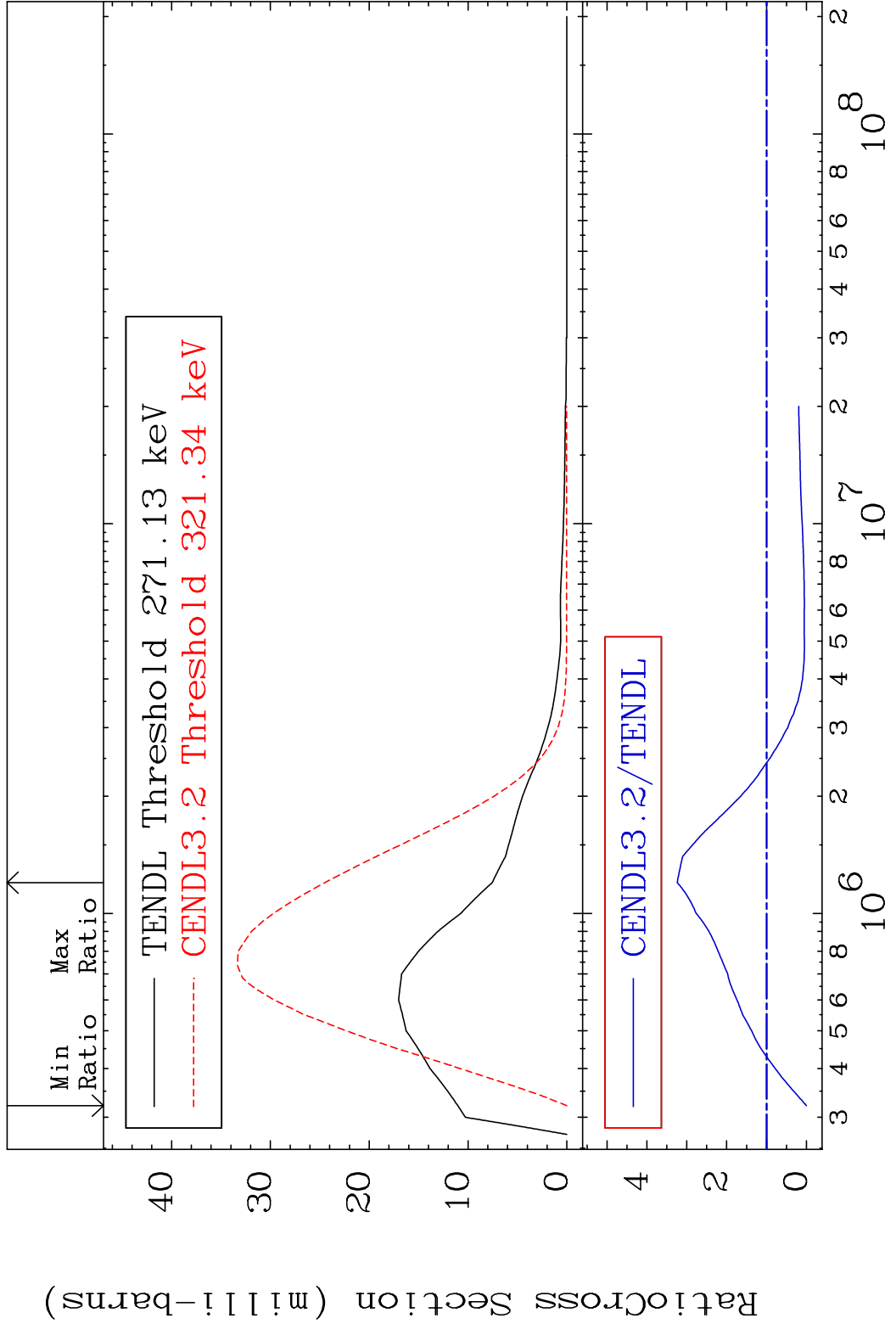
MAT 9543 MT= 56 (n, n') Level 95-Am-241  
 Cross Section -71.33 To 9999. %



MAT 9543 MT= 57 (n, n') Level 95-Am-241  
 Cross Section -100.0 To 192.5 %

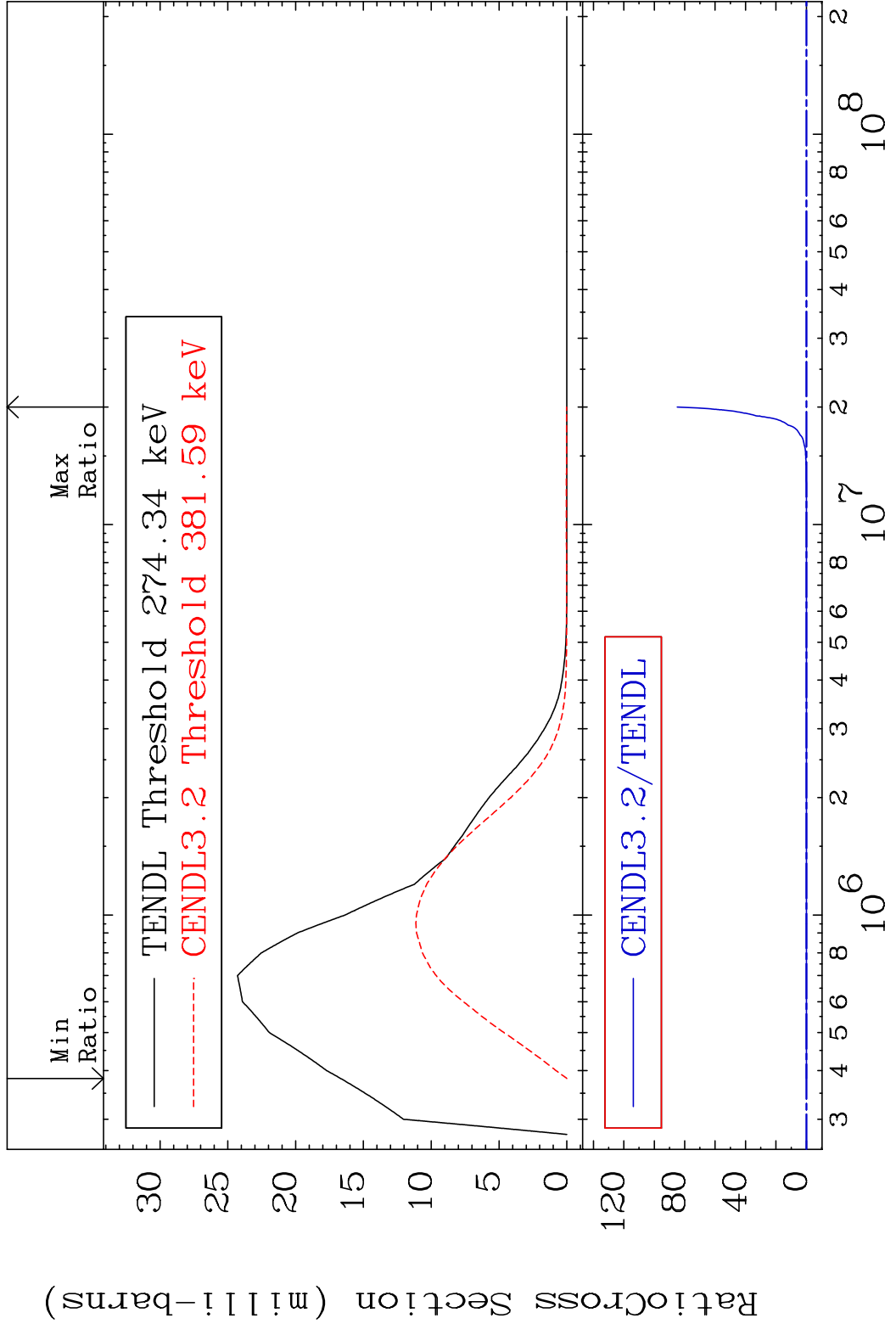


MAT 9543 MT= 58 (n, n') Level 95-Am-241  
 Cross Section -100.0 To 224.1 %

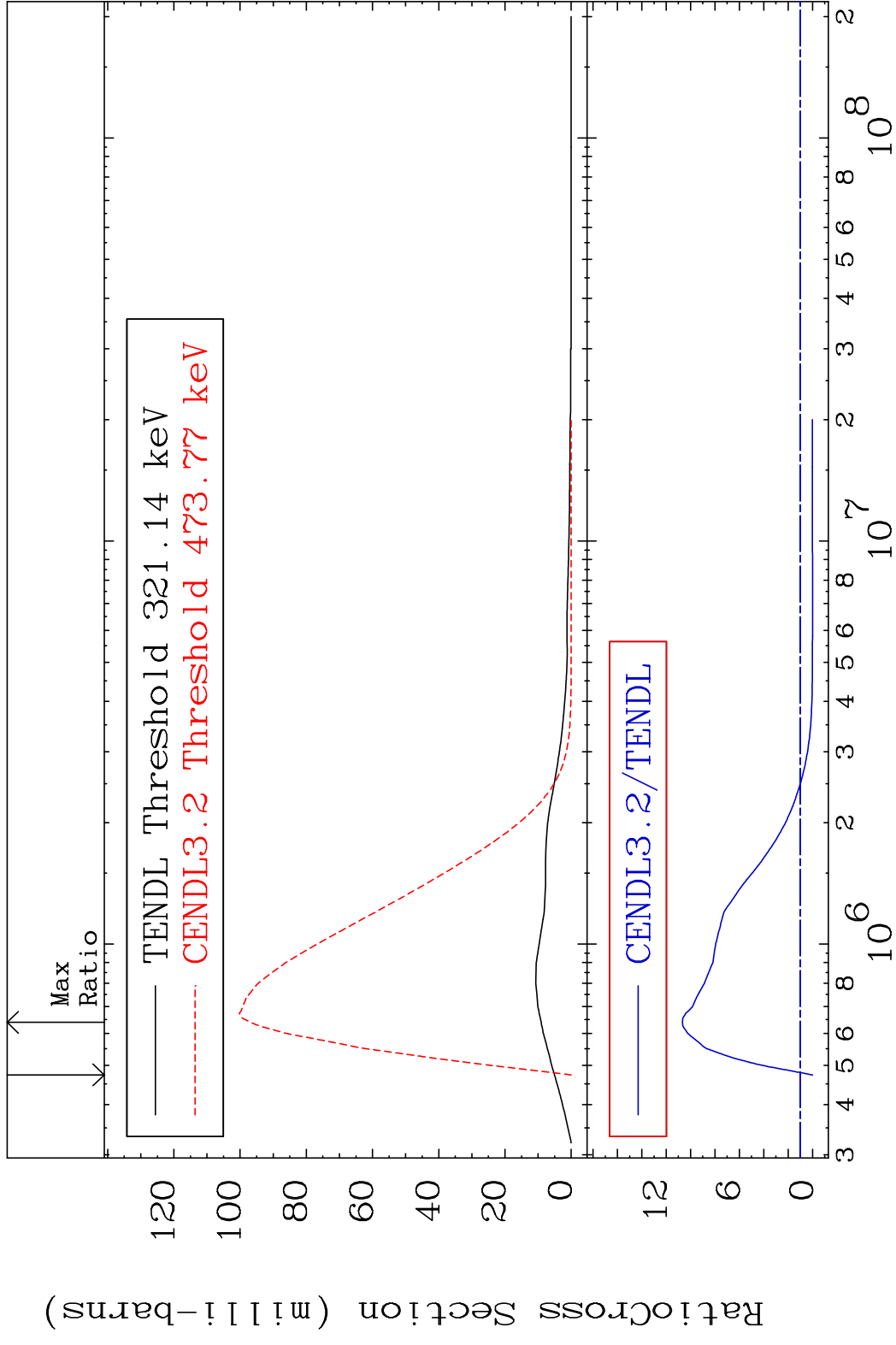


14 Incident Energy (eV) 95-Am-241

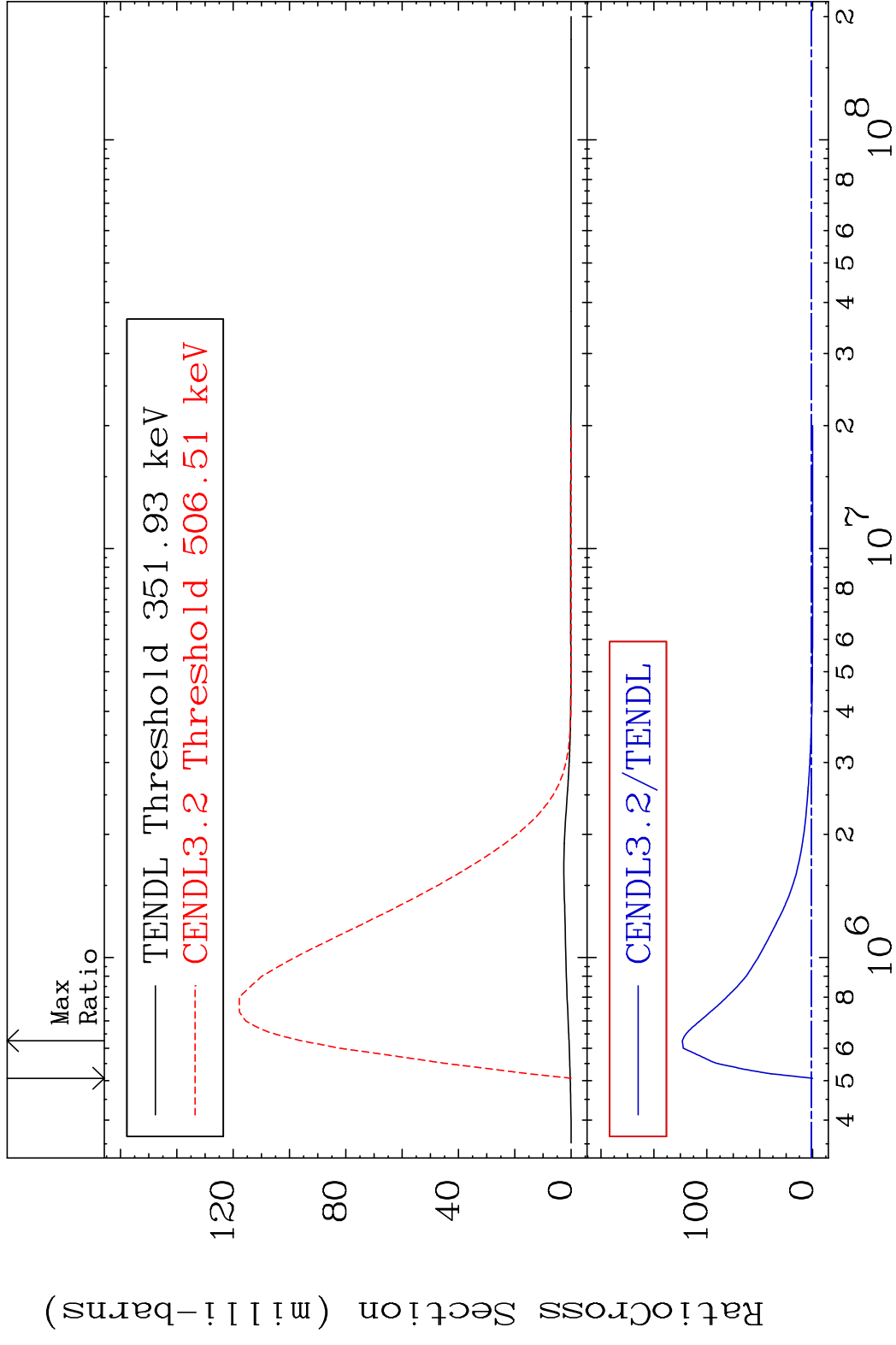
MAT 9543 MT= 59 (n, n') Level 95-Am-241  
 Cross Section -100.0 To 9999. %



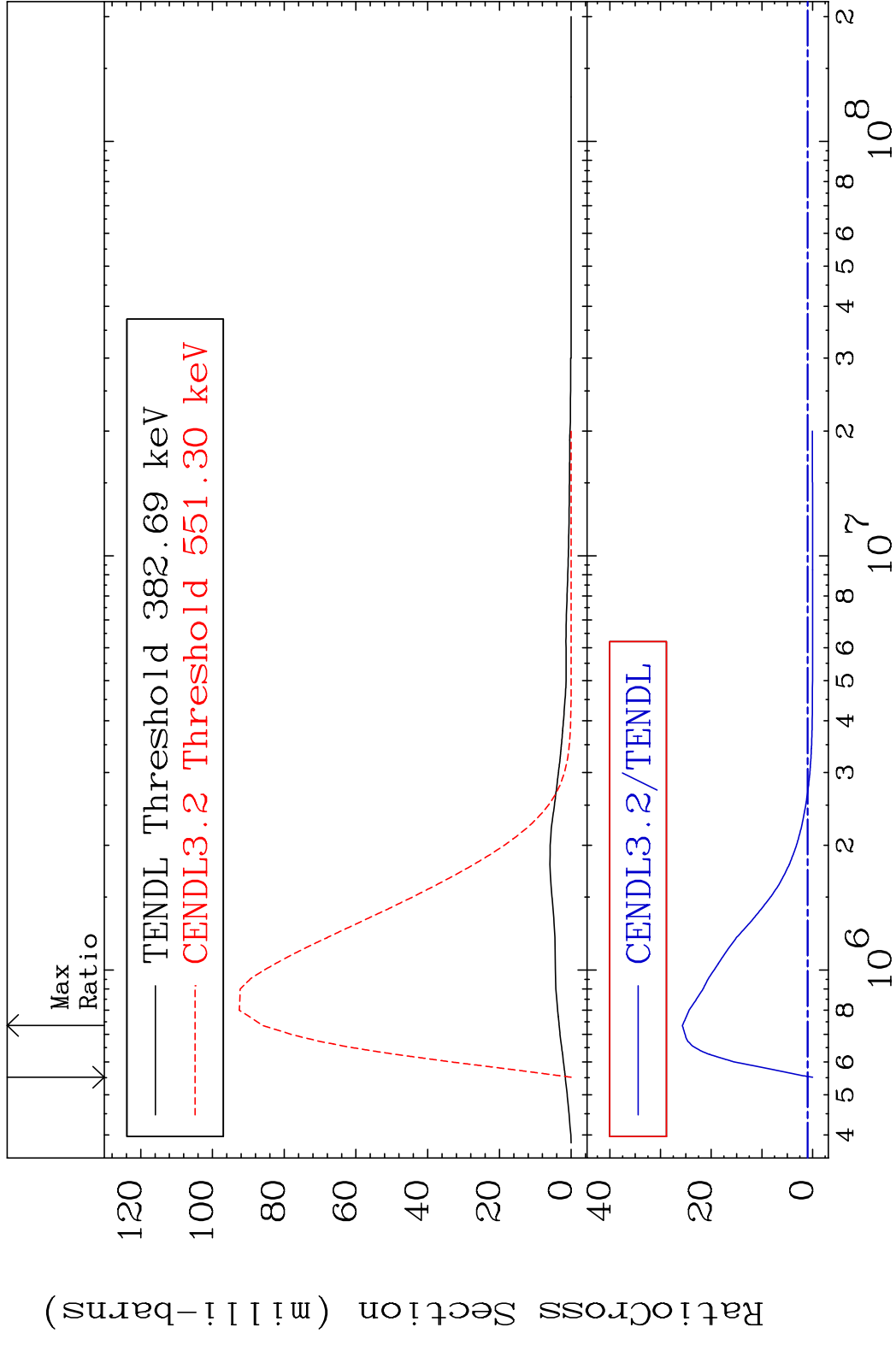
MAT 9543 MT= 60 (n, n') Level 95-Am-241  
 Cross Section -100.0 To 967.5 %



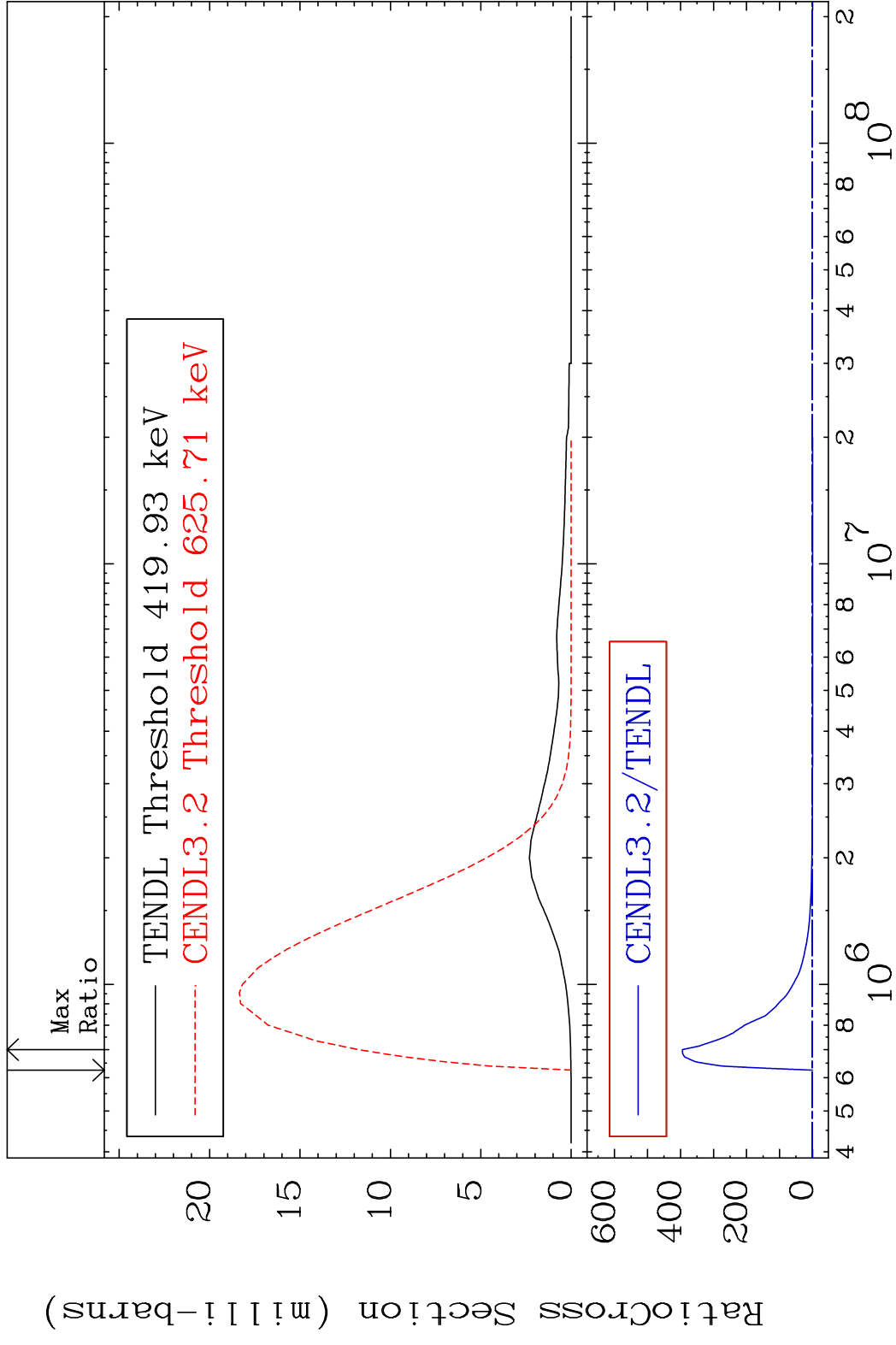
MAT 9543 MT= 61 (n, n') Level 95-Am-241  
 Cross Section -100.0 To 9999. %



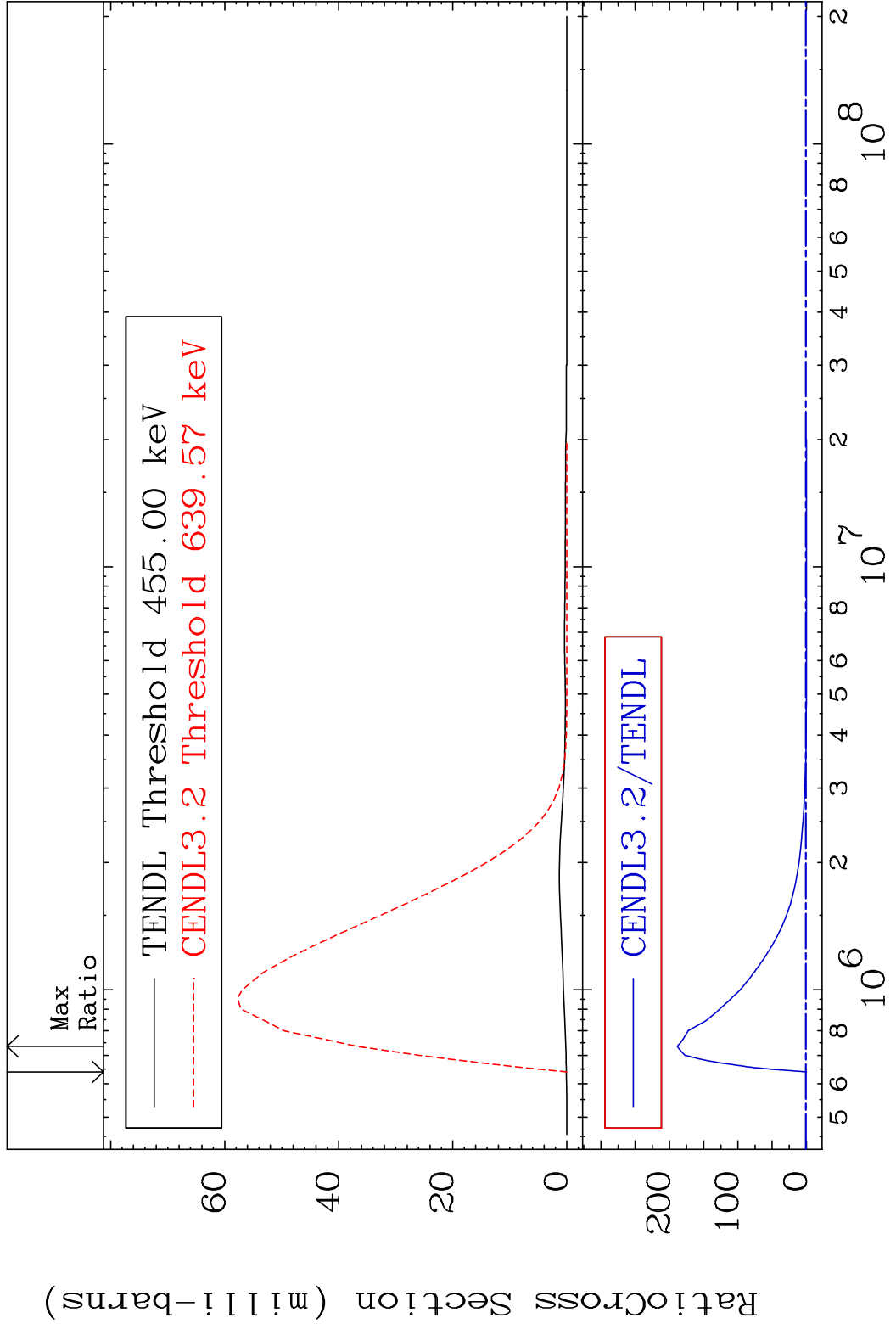
MAT 9543 MT= 62 (n,n') Level 95-Am-241  
 Cross Section -100.0 To 2470. %



MAT 9543 MT= 63 (n, n') Level 95-Am-241  
 Cross Section -100.0 To 9999. %

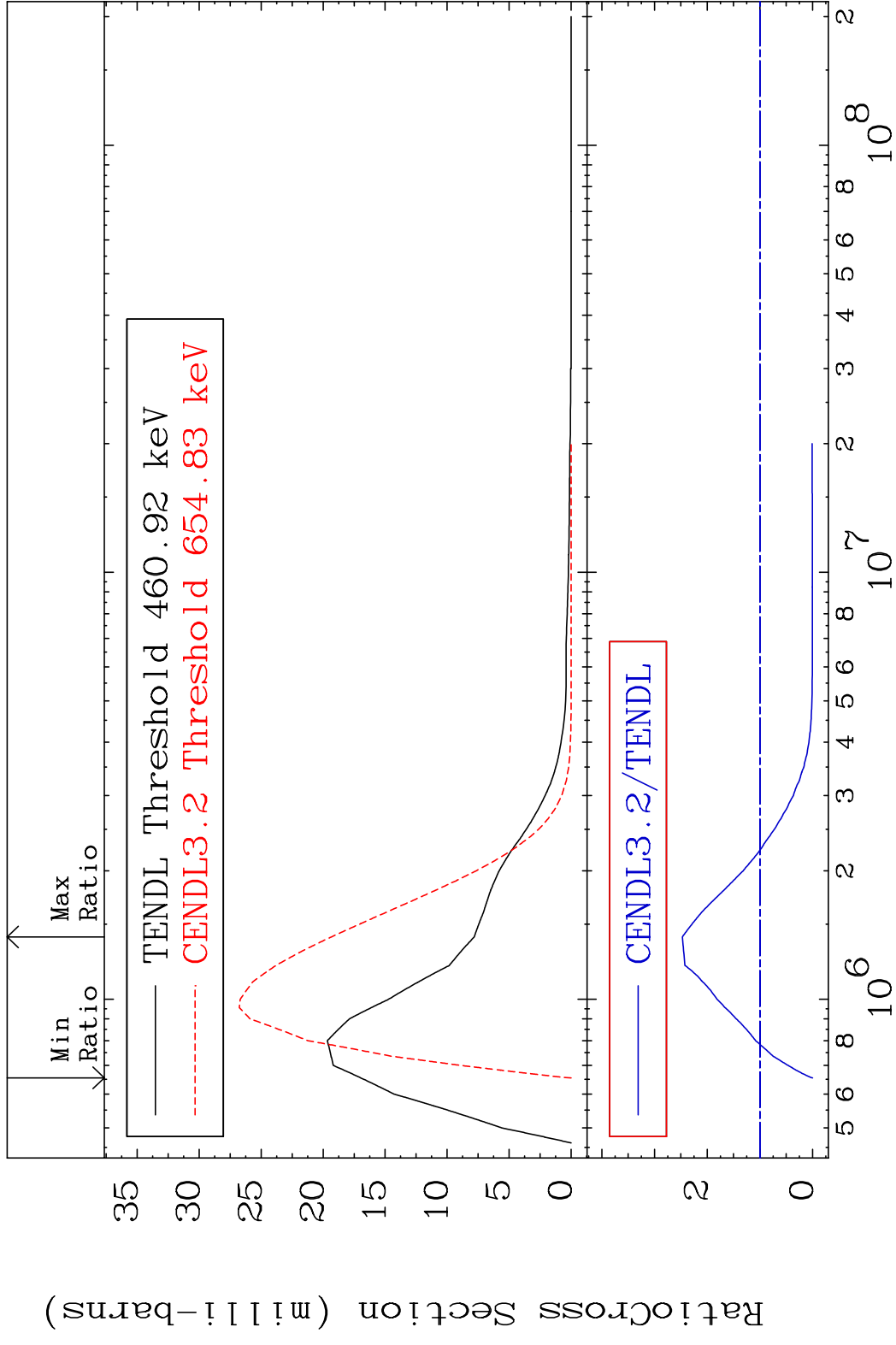


MAT 9543 MT= 64 (n, n') Level 95-Am-241  
 Cross Section -100.0 To 9999. %

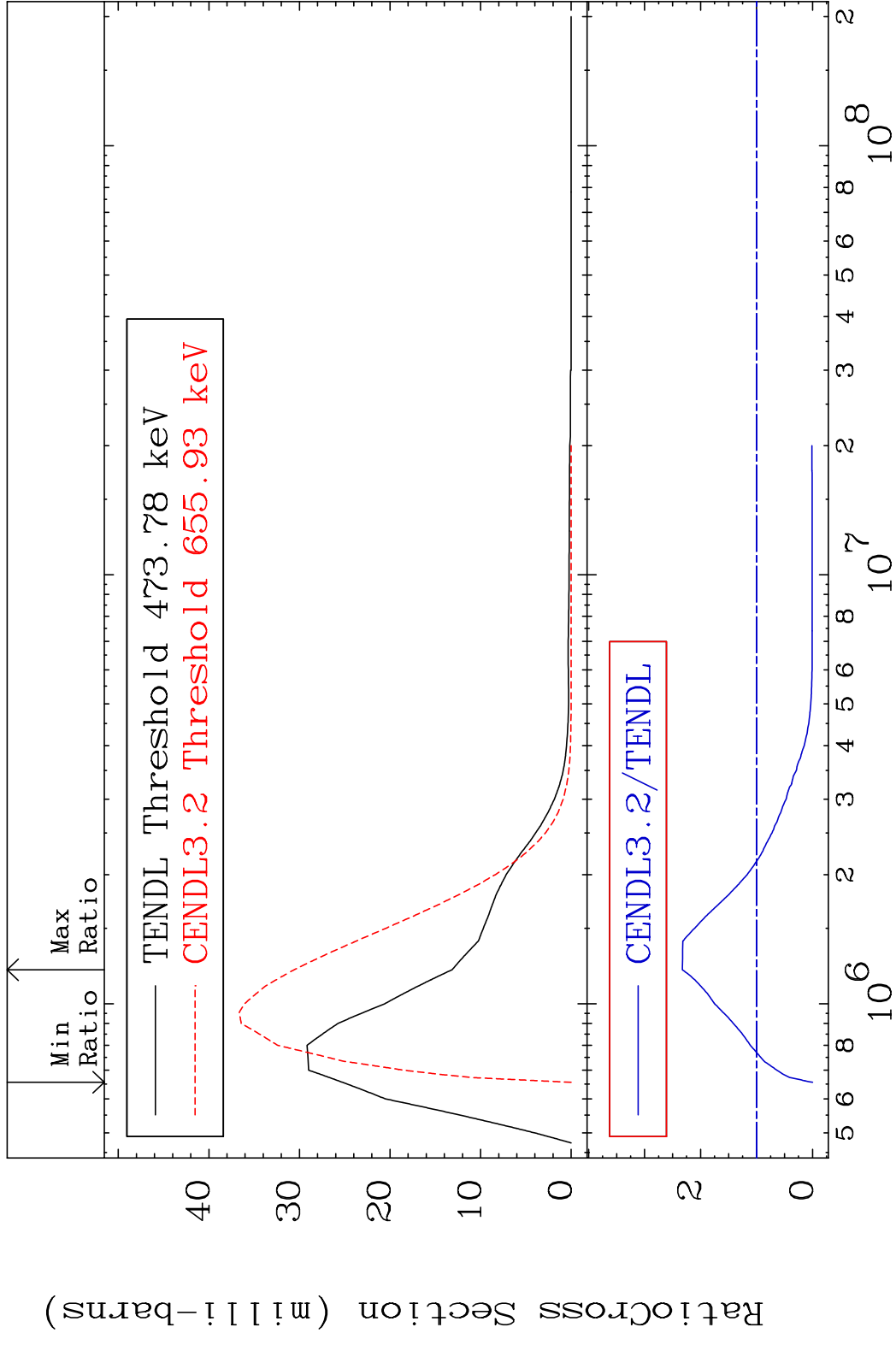


20 Incident Energy (eV) 95-Am-241

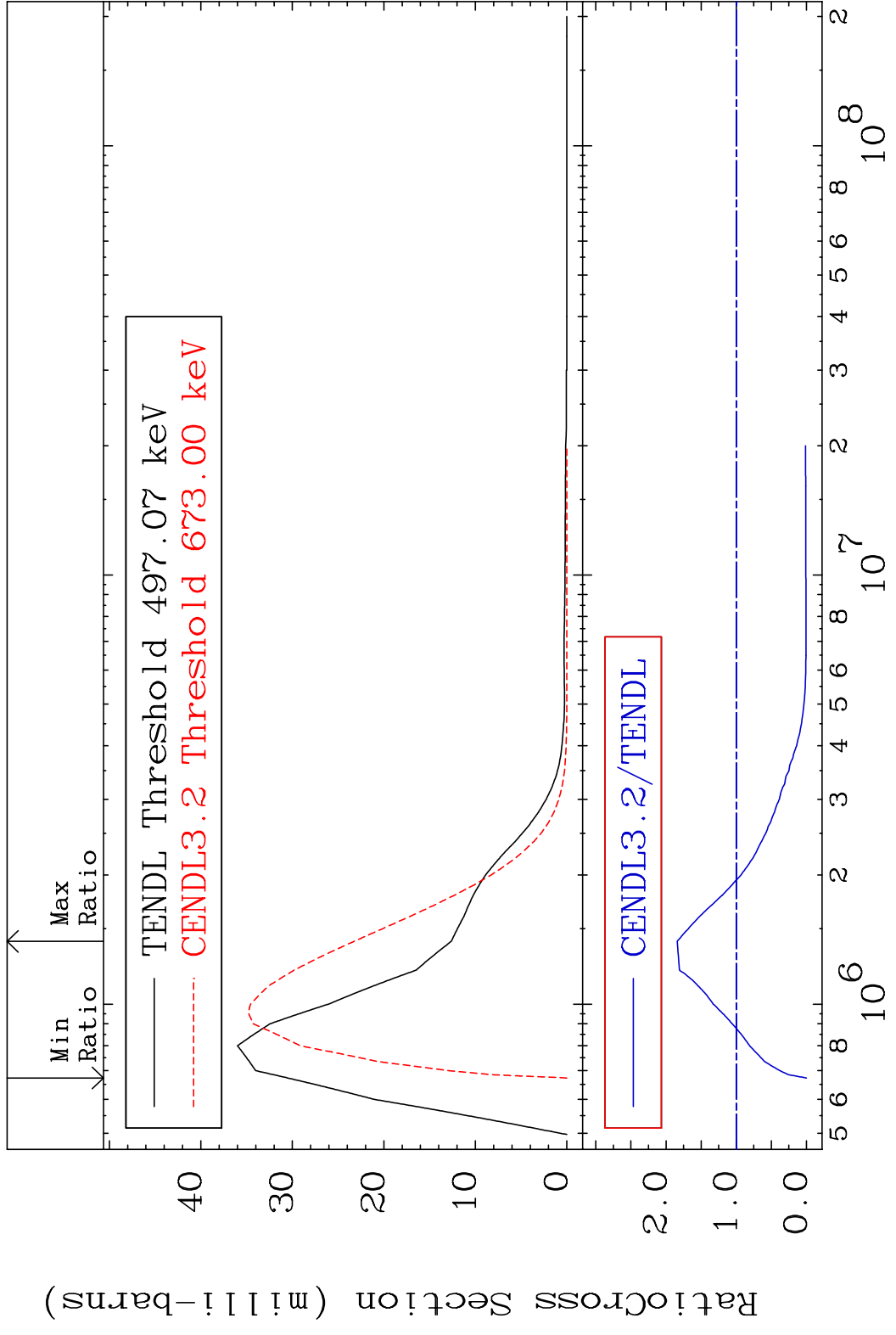
MAT 9543 MT= 65 (n, n') Level 95-Am-241  
 Cross Section -100.0 To 147.2 %



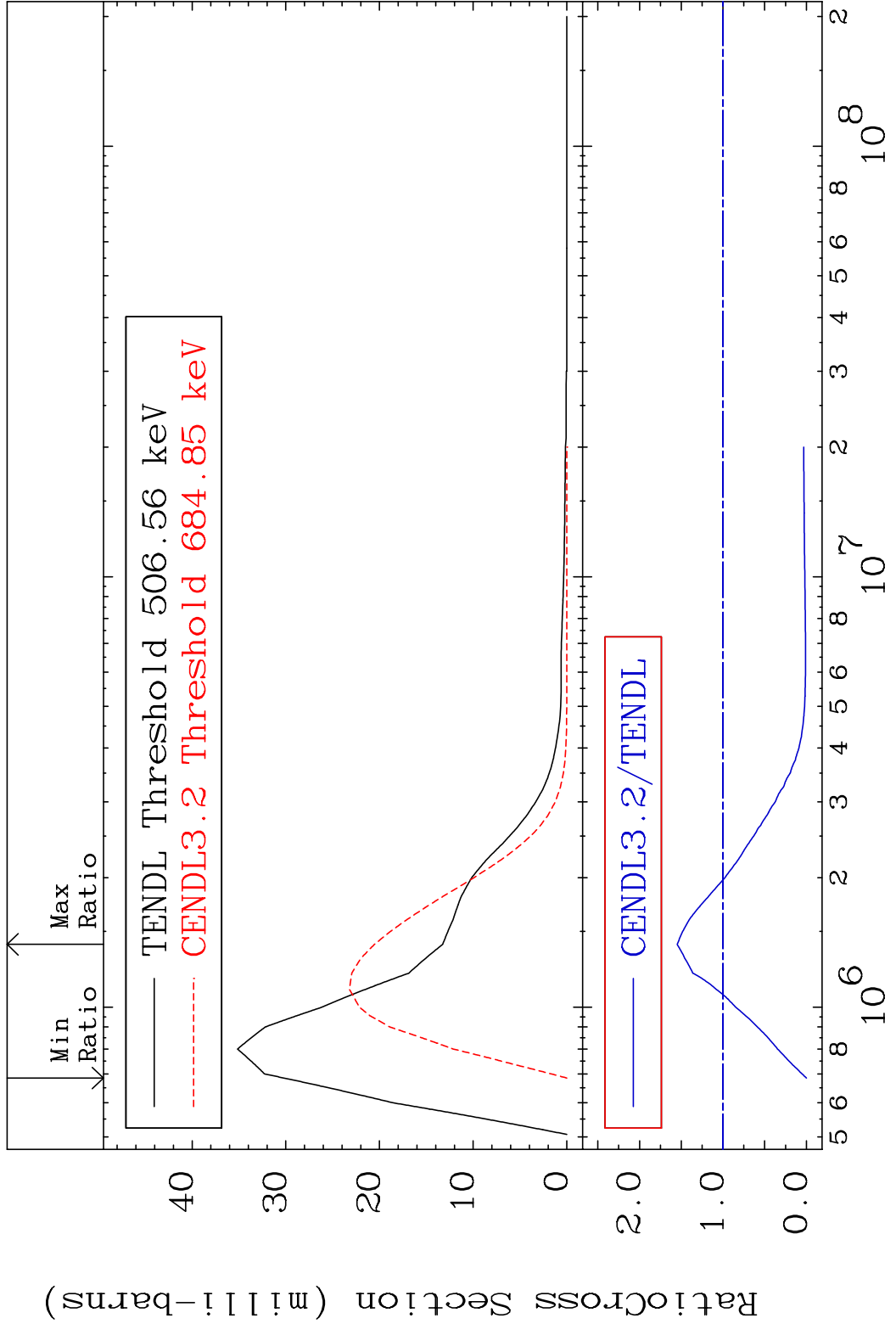
MAT 9543 MT= 66 (n, n') Level 95-Am-241  
 Cross Section -100.0 To 132.6 %



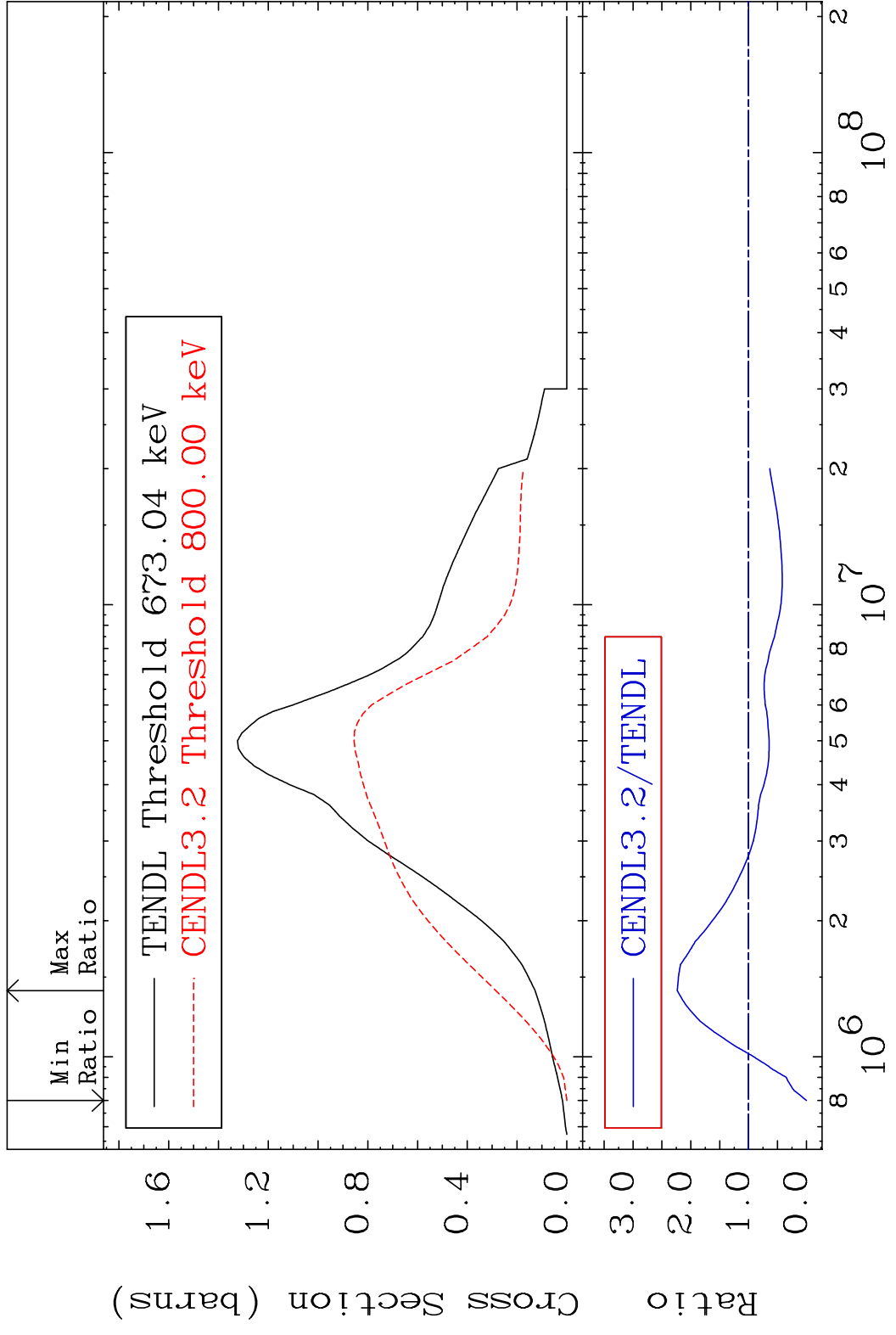
MAT 9543 MT= 67 (n, n') Level 95-Am-241  
 Cross Section -100.0 To 84.10 %



MAT 9543 MT= 68 (n, n') Level 95-Am-241  
 Cross Section -100.0 To 54.88 %



MAT 9543 (n, n') Continuum 95-Am-241  
 Cross Section -100.0 To 123.5 %

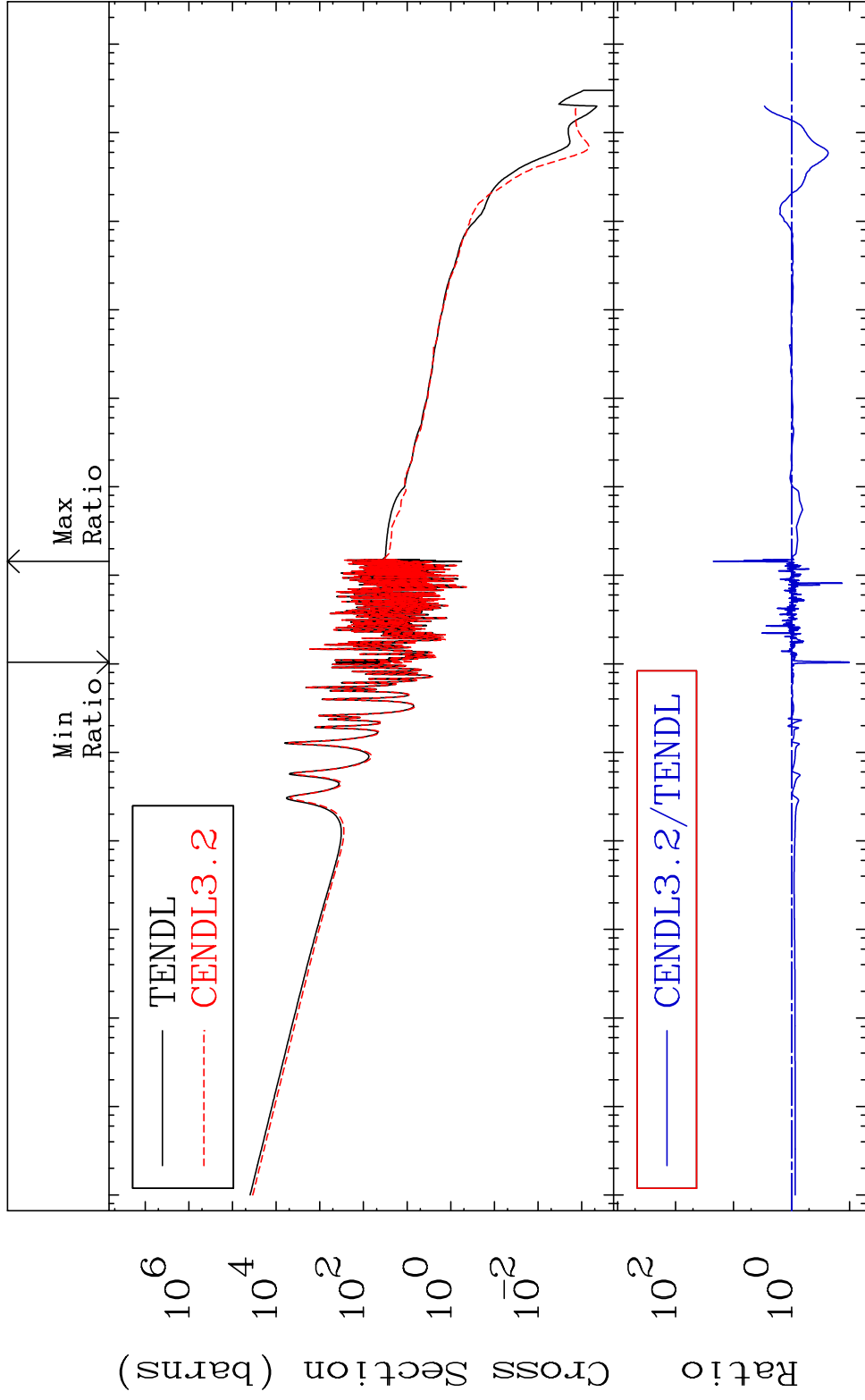


MAT 9543

(n,  $\gamma$ )

95-Am-241

Cross Section -89.86 To 2148. %



MAT 9543

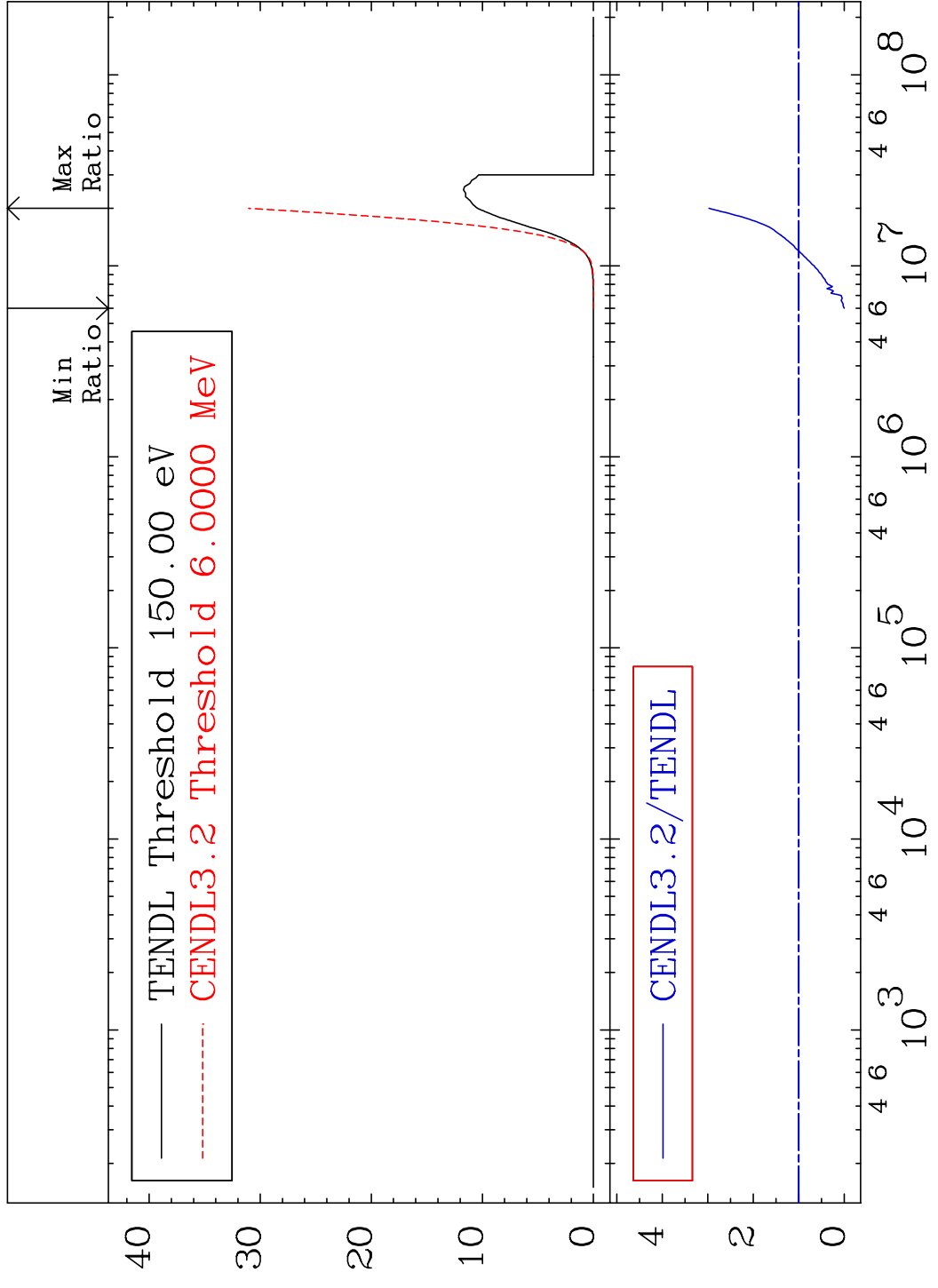
(n, p)

95-Am-241

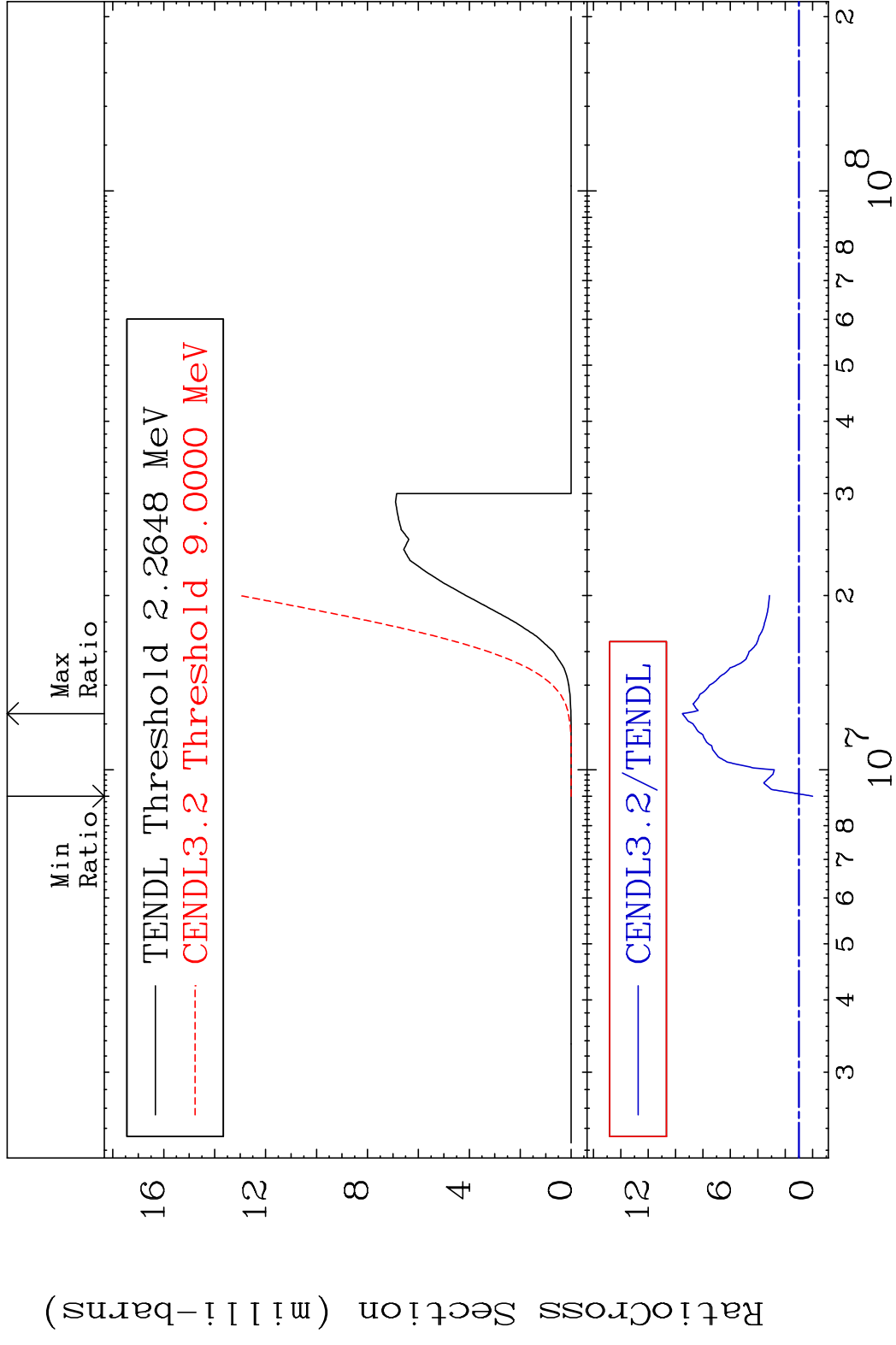
Cross Section

-100.0 To 197.5 %

RatioCross Section (milli-barns)



MAT 9543 (n, d) 95-Am-241  
 Cross Section -100.0 To 850.5 %

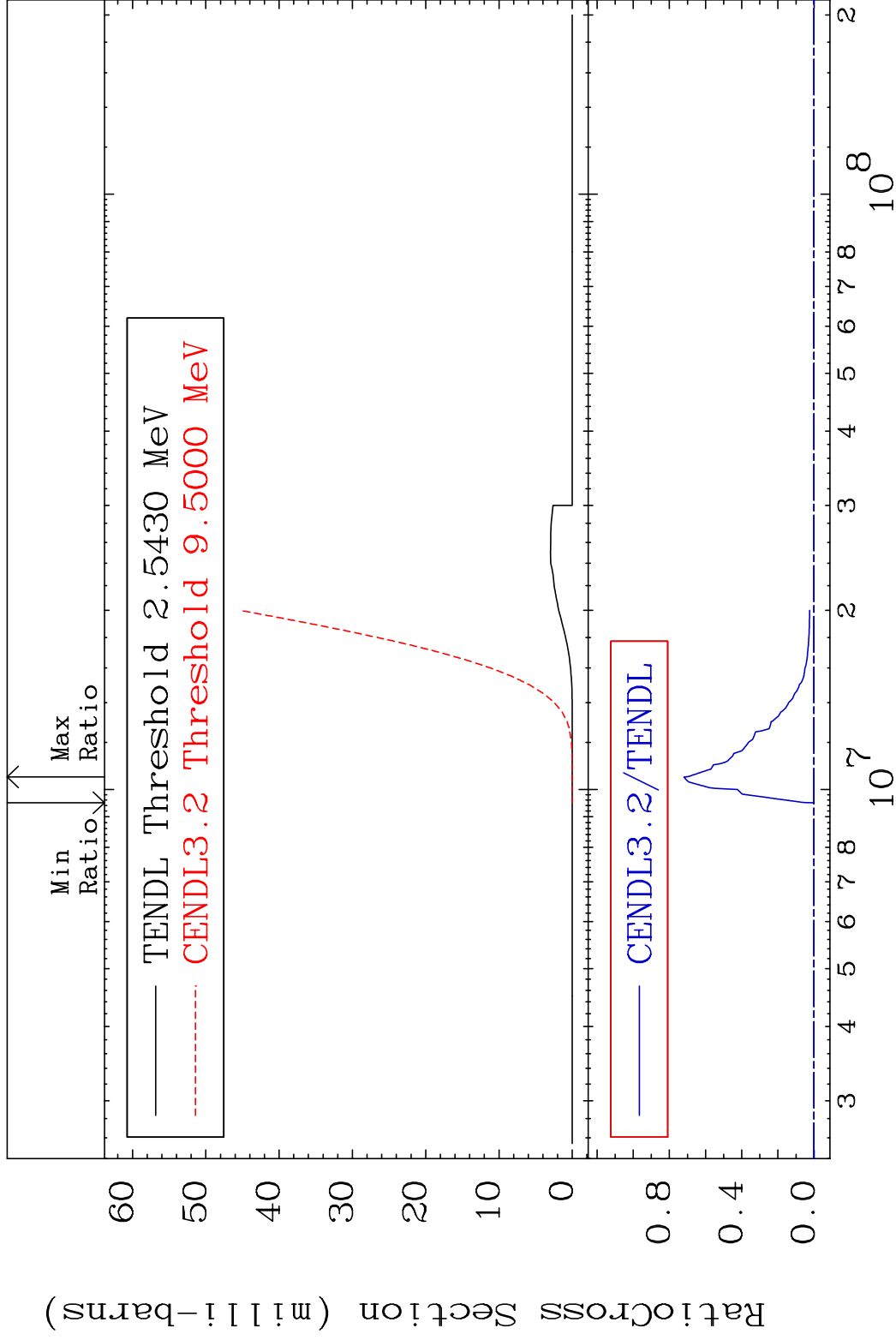


MAT 9543

(n, t)

95-Am-241

Cross Section -100.0 To 9999. %



29

Incident Energy (eV)

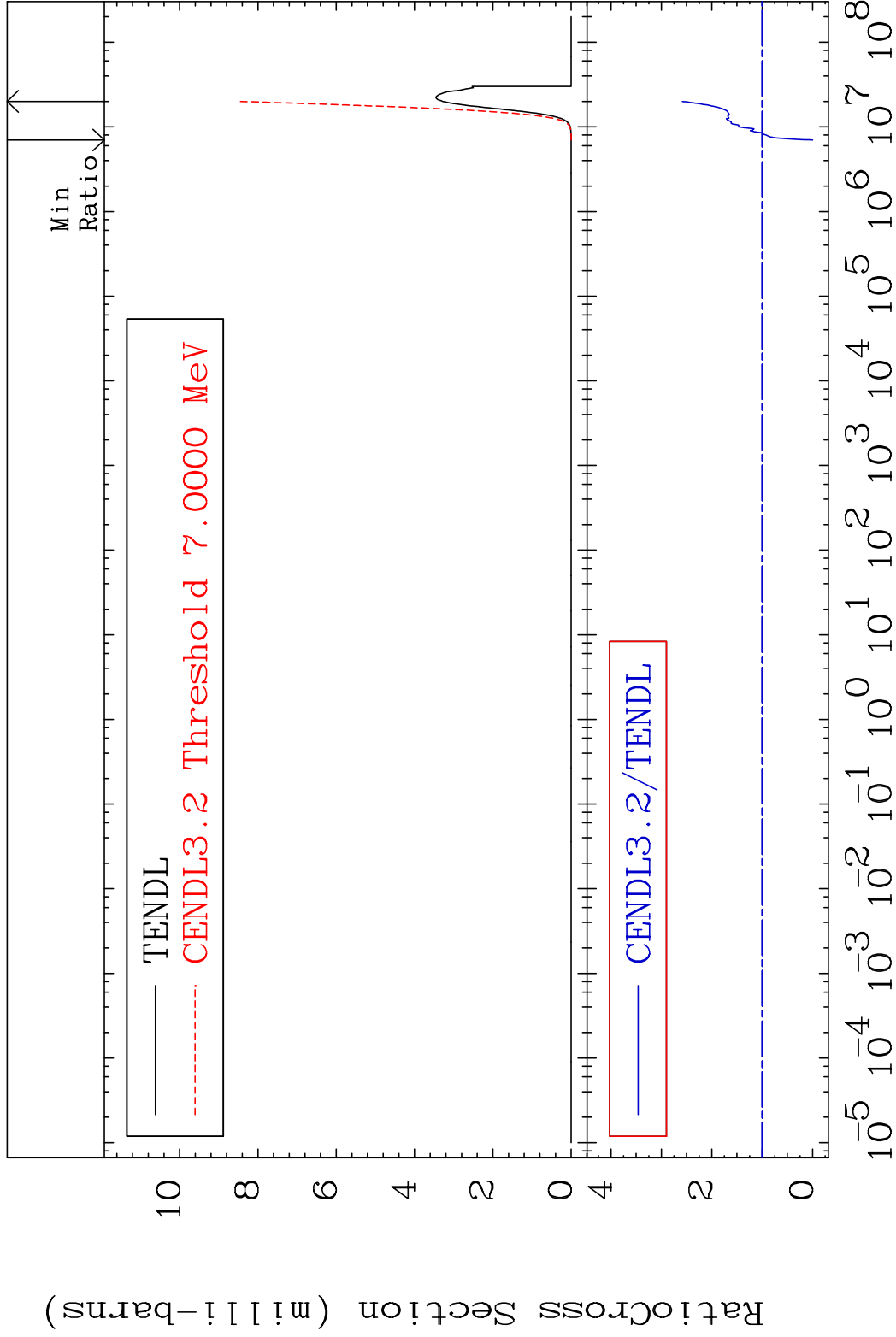
95-Am-241

MAT 9543

(n,  $\alpha$ )

95-Am-241

Cross Section -100.0 To 158.4 %

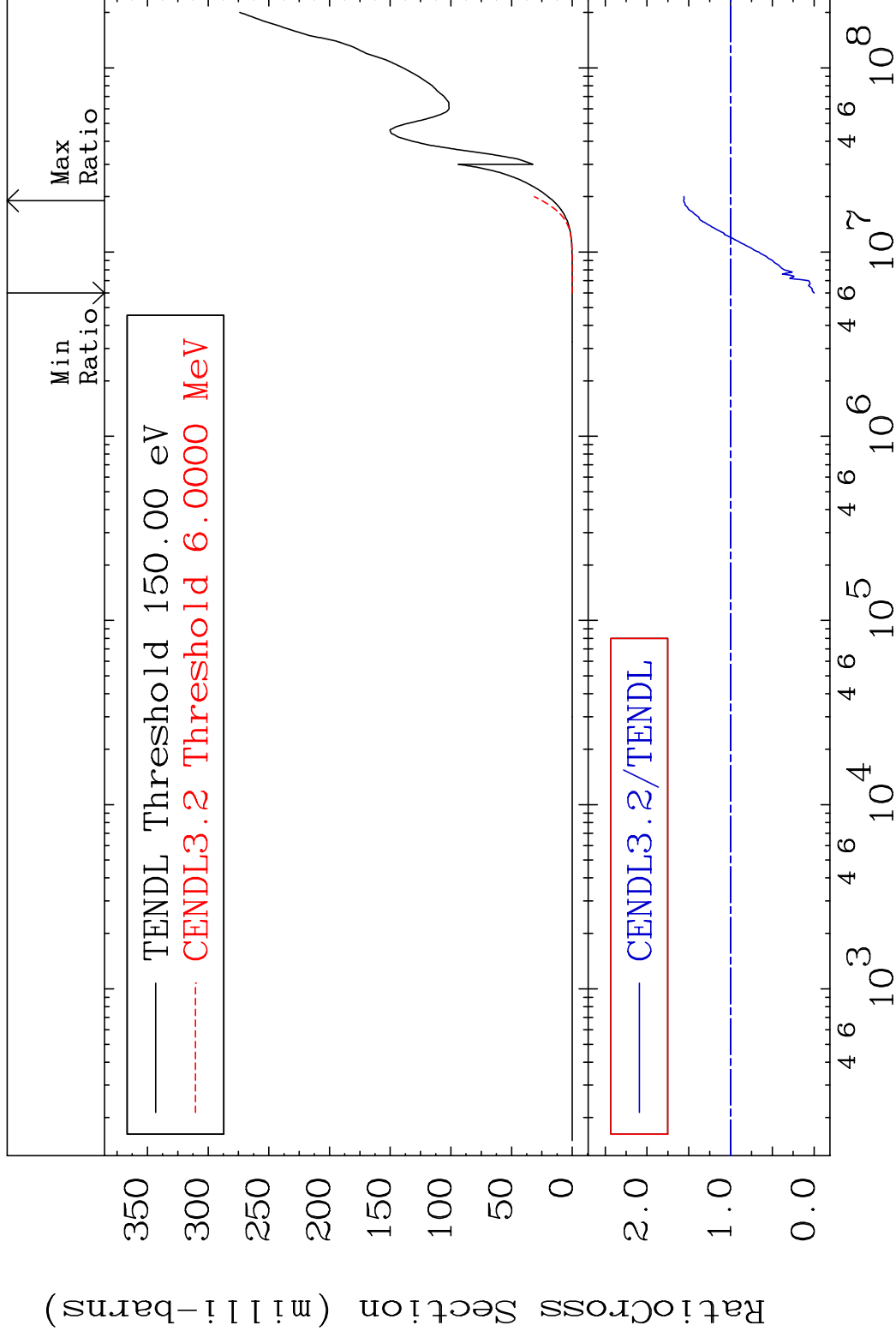


MAT 9543

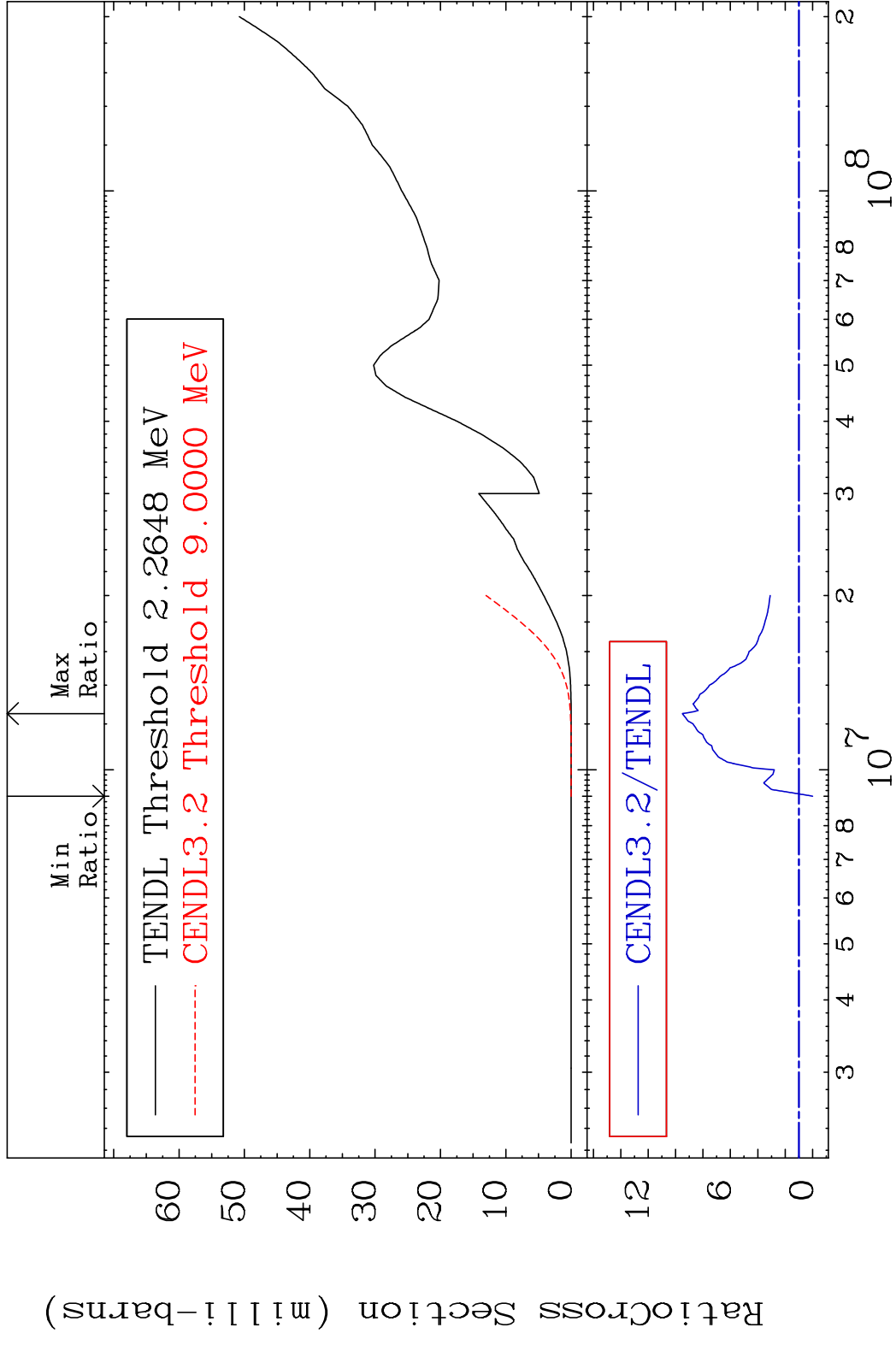
Hydrogen Production

95-Am-241

Cross Section -100.0 To 56.14 %



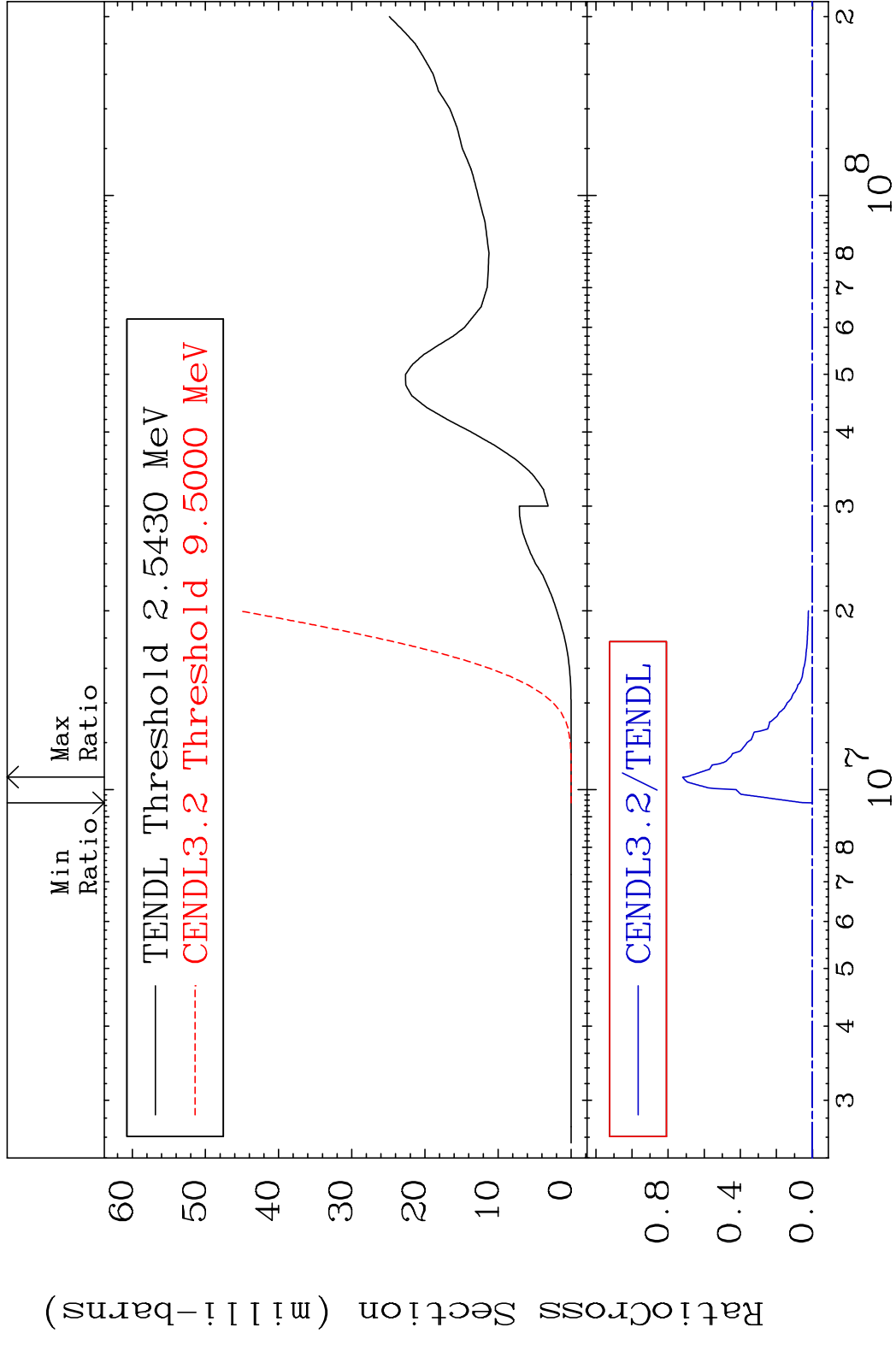
MAT 9543 Deuterium Production 95-Am-241  
 Cross Section -100.0 To 850.5 %



32 Incident Energy (eV) 95-Am-241

MAT 9543

Tritium Production 95-Am-241  
Cross Section -100.0 To 9999. %

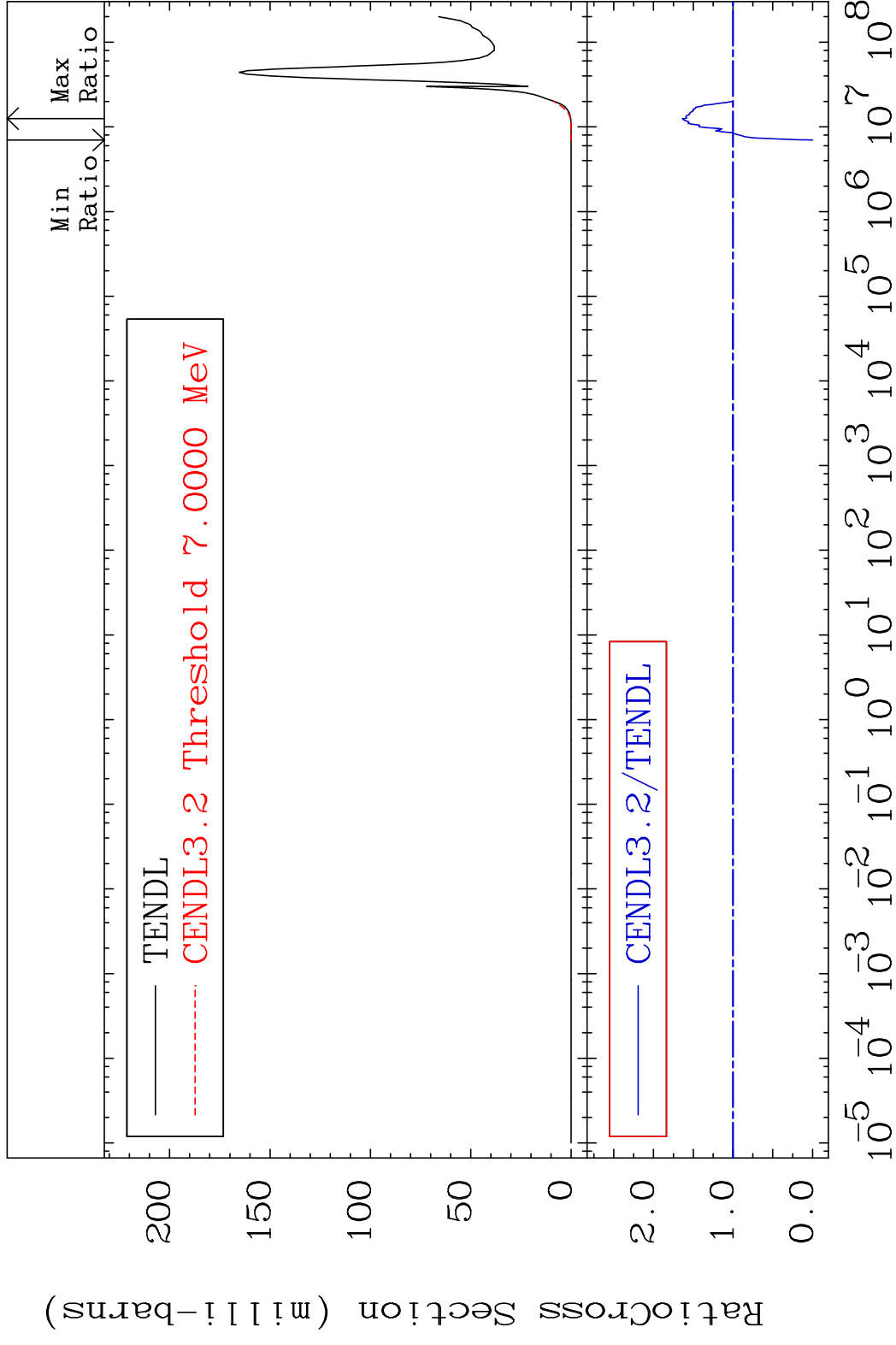


MAT 9543

He-4 Production

95-Am-241

Cross Section -100.0 To 63.72 %

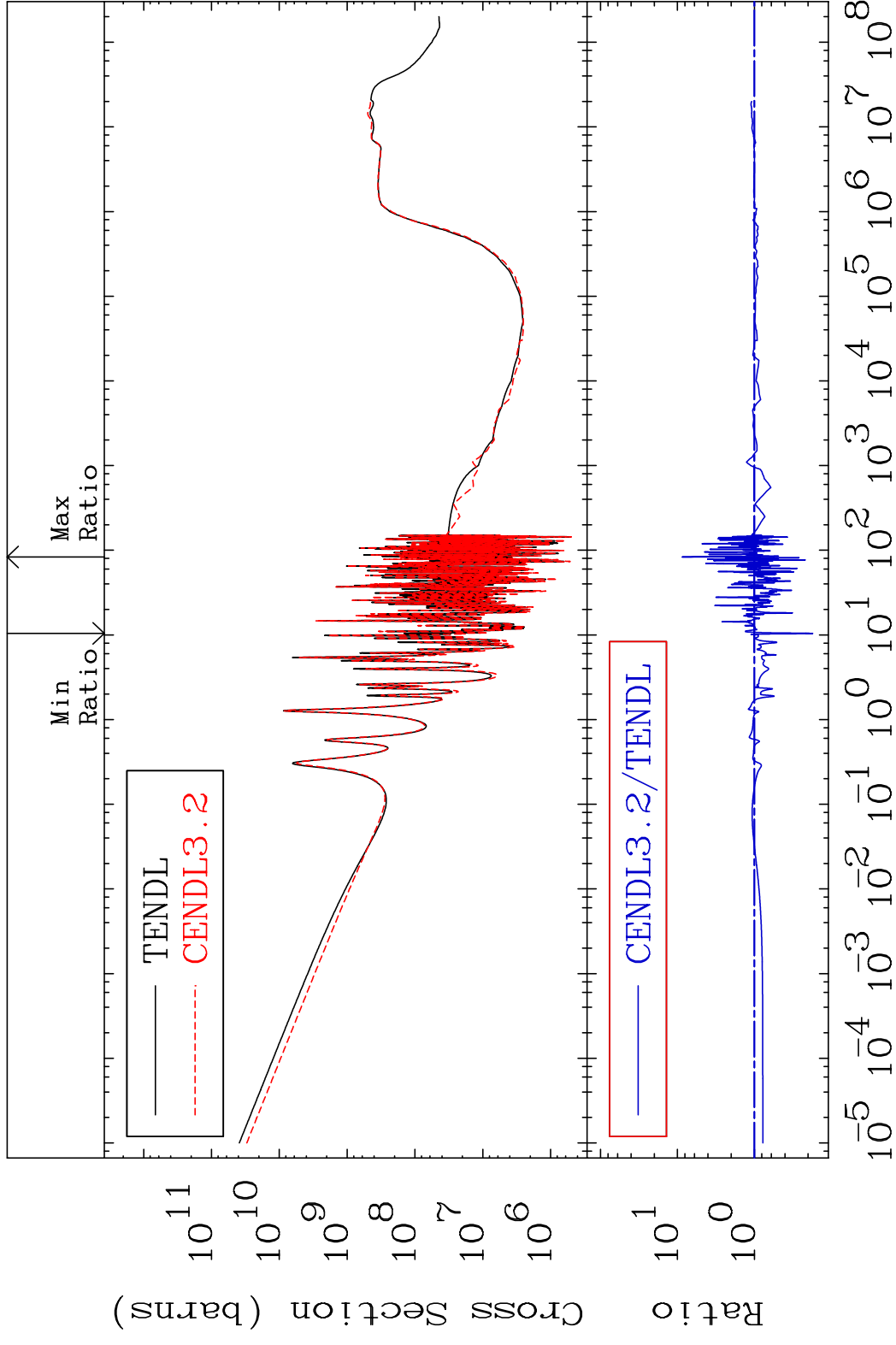


34

Incident Energy (eV)

95-Am-241

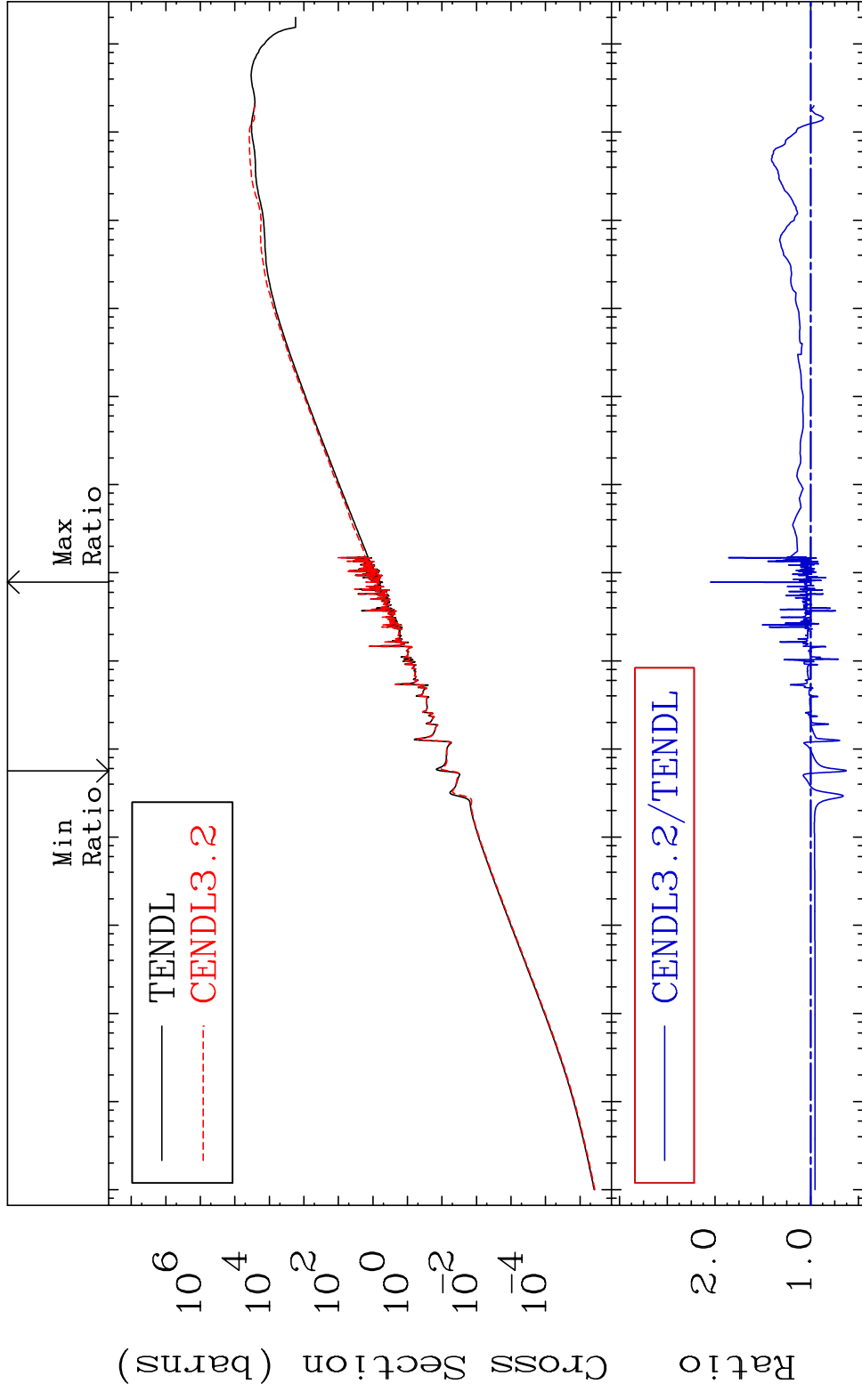
MAT 9543 Kerma total (eV-barns) 95-Am-241  
 Cross Section -82.49 To 762.5 %



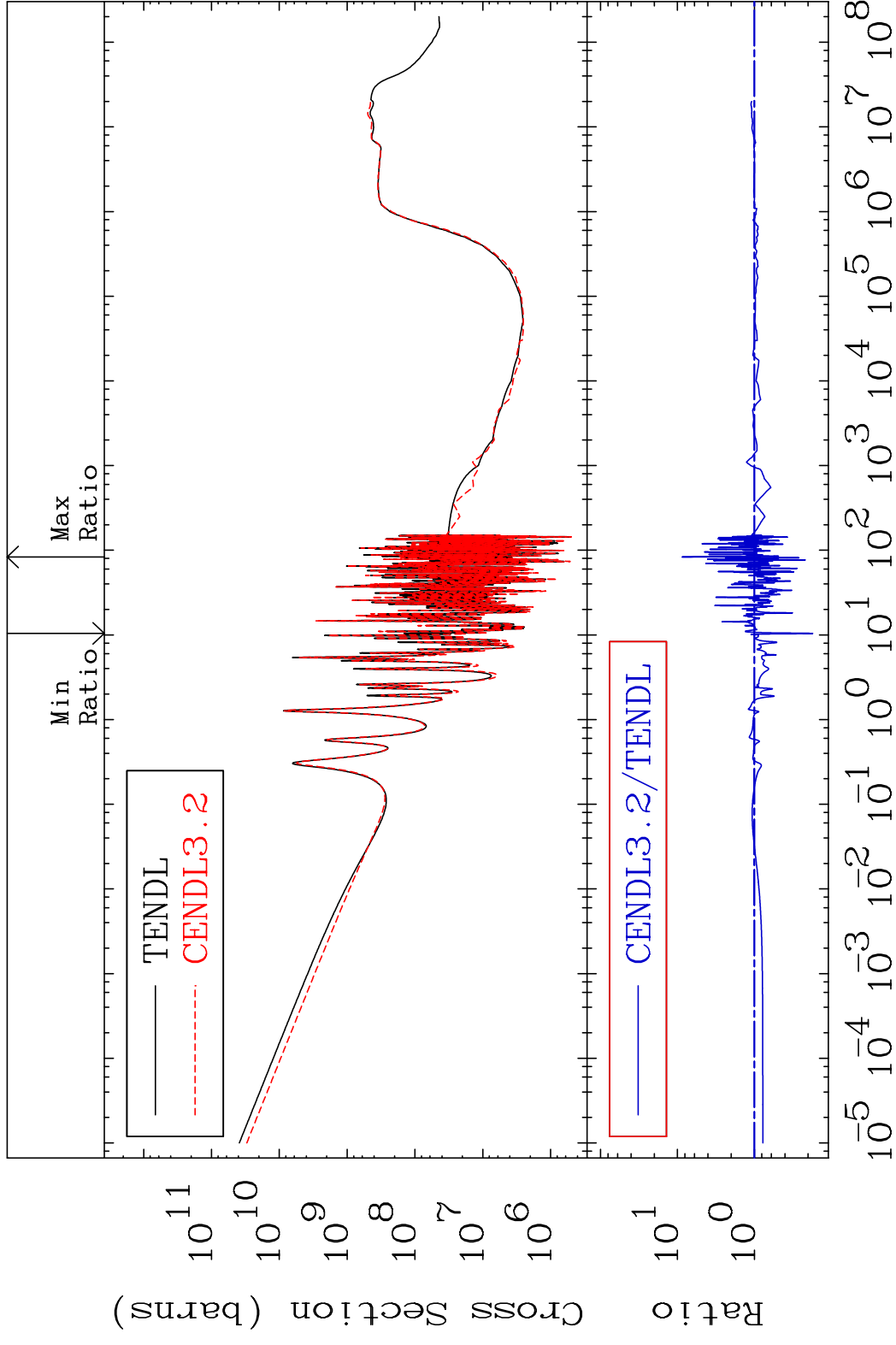
MAT 9543

Kerma elastic  
Cross Section -37.22 To 104.6 %

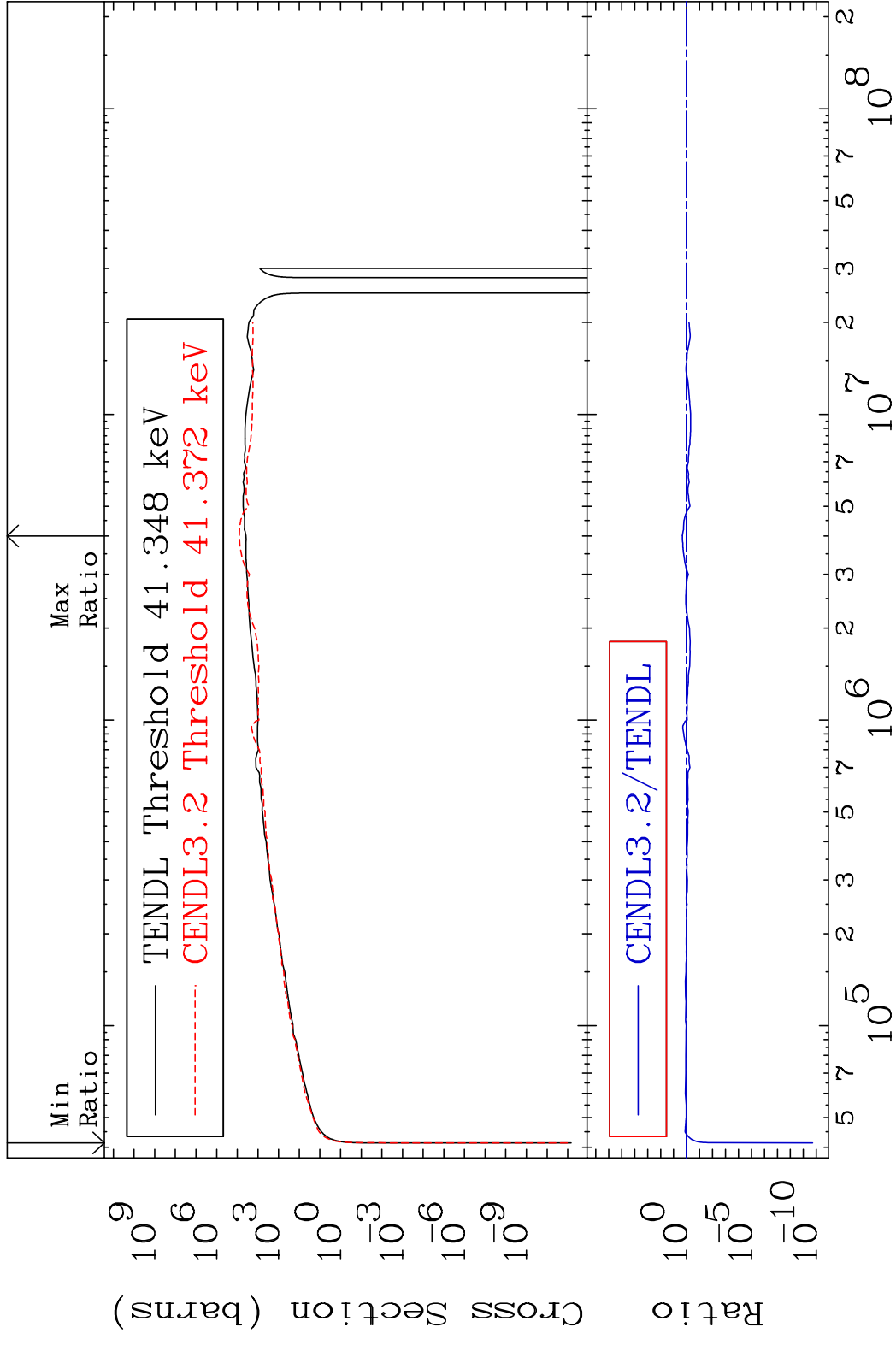
95-Am-241



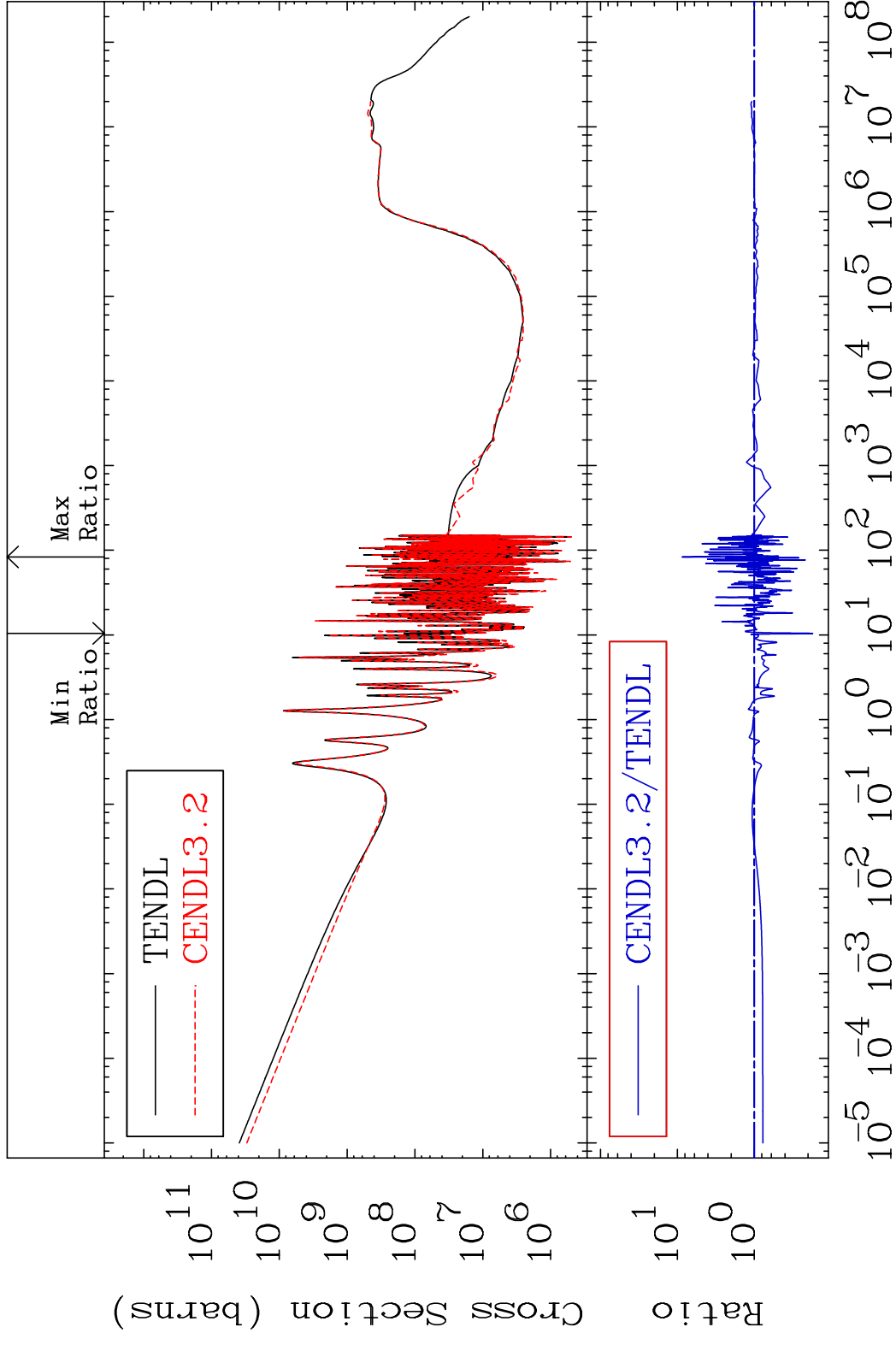
MAT 9543 Kerma non-elastic (all but mt2) 95-Am-241  
 Cross Section -82.49 To 762.5 %



MAT 9543 Kerma inelastic (mt51-91) 95-Am-241  
 Cross Section -100.0 To 111.2 %

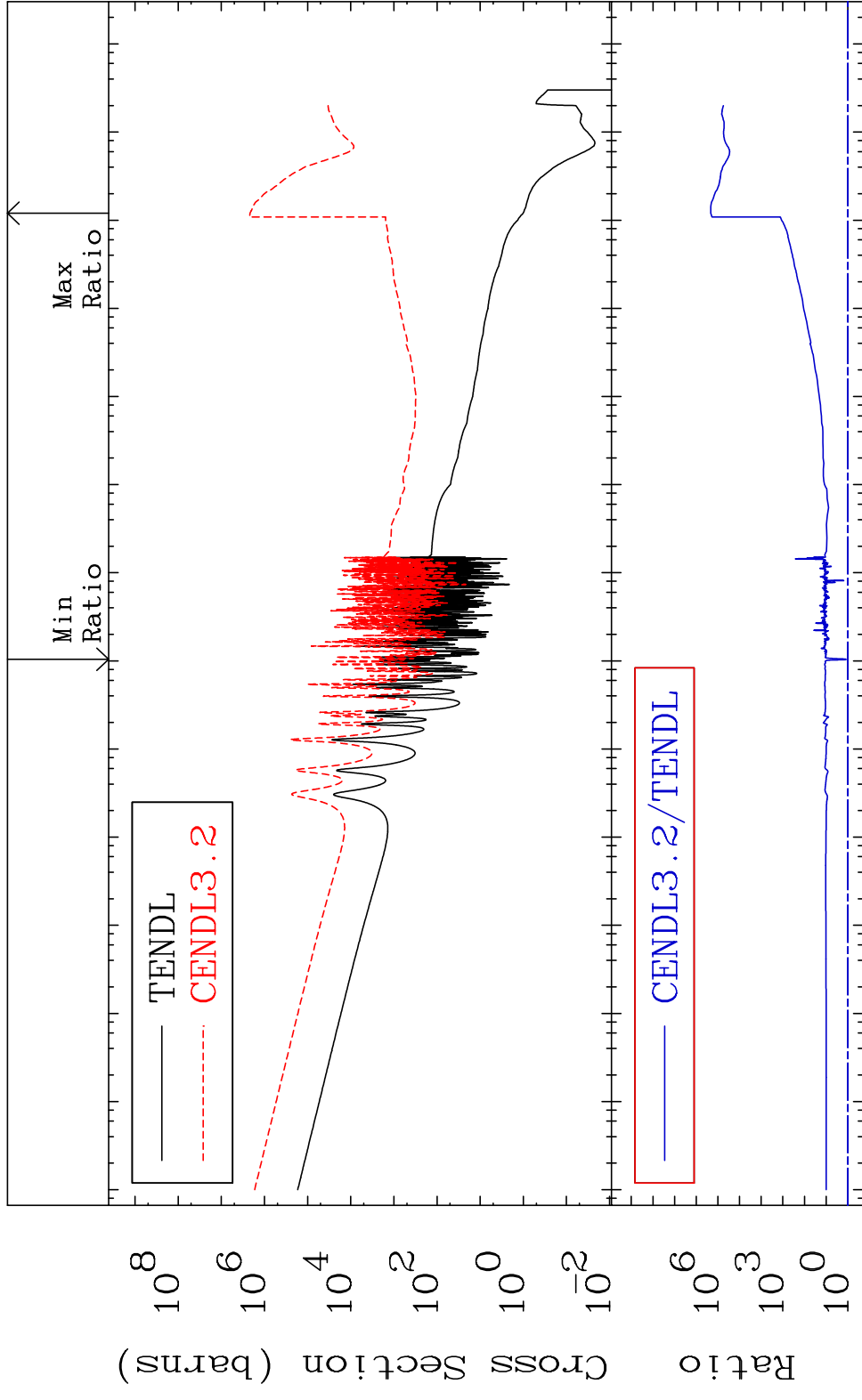


MAT 9543 Kerma fission (mt18 or mt19-20-21-38) 95-Am-241  
 Cross Section -82.49 To 762.5 %



MAT 9543

Kerma capture (mt102) 95-Am-241  
Cross Section 16.42 To 9999. %

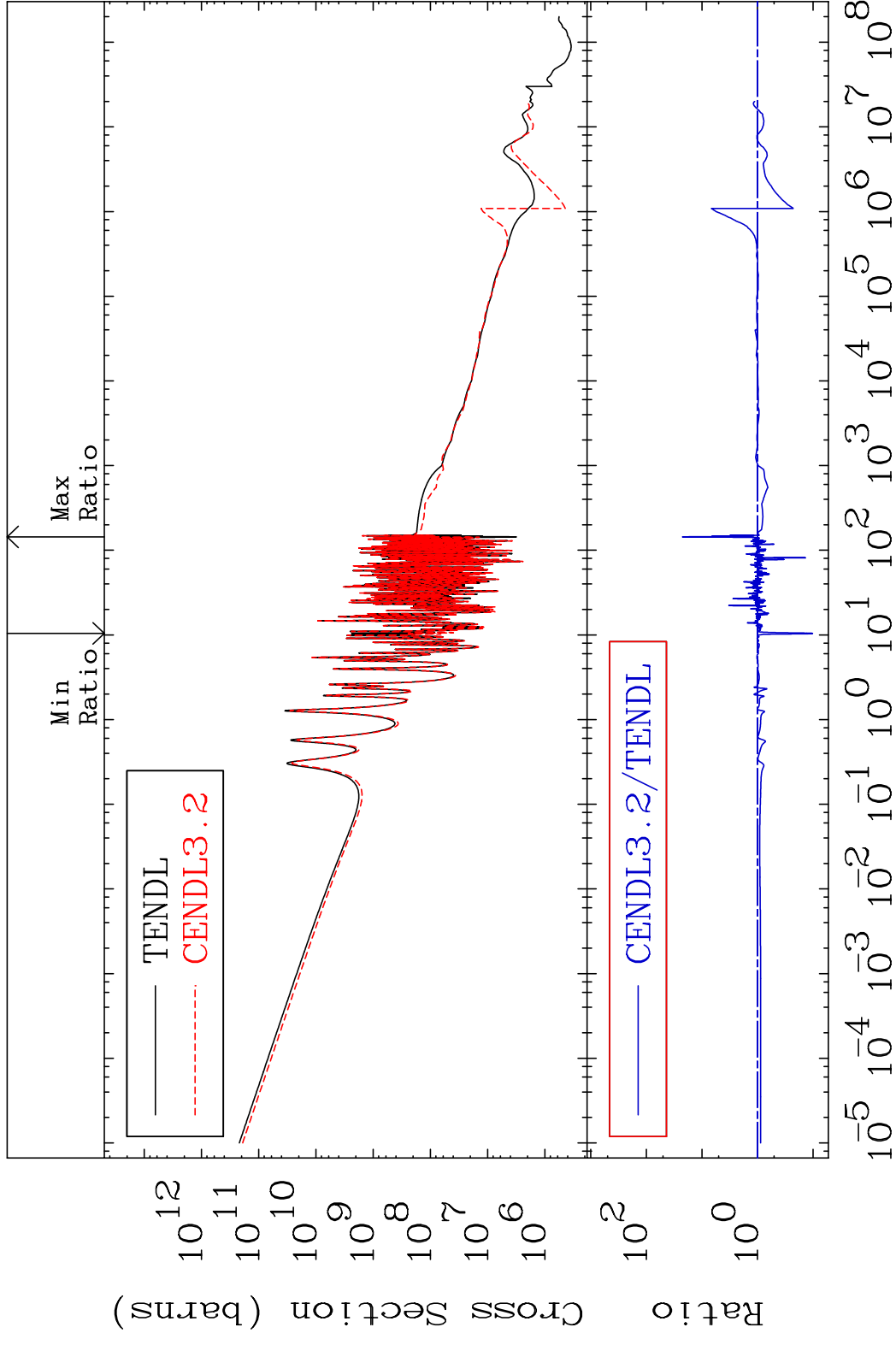


40

Incident Energy (eV)

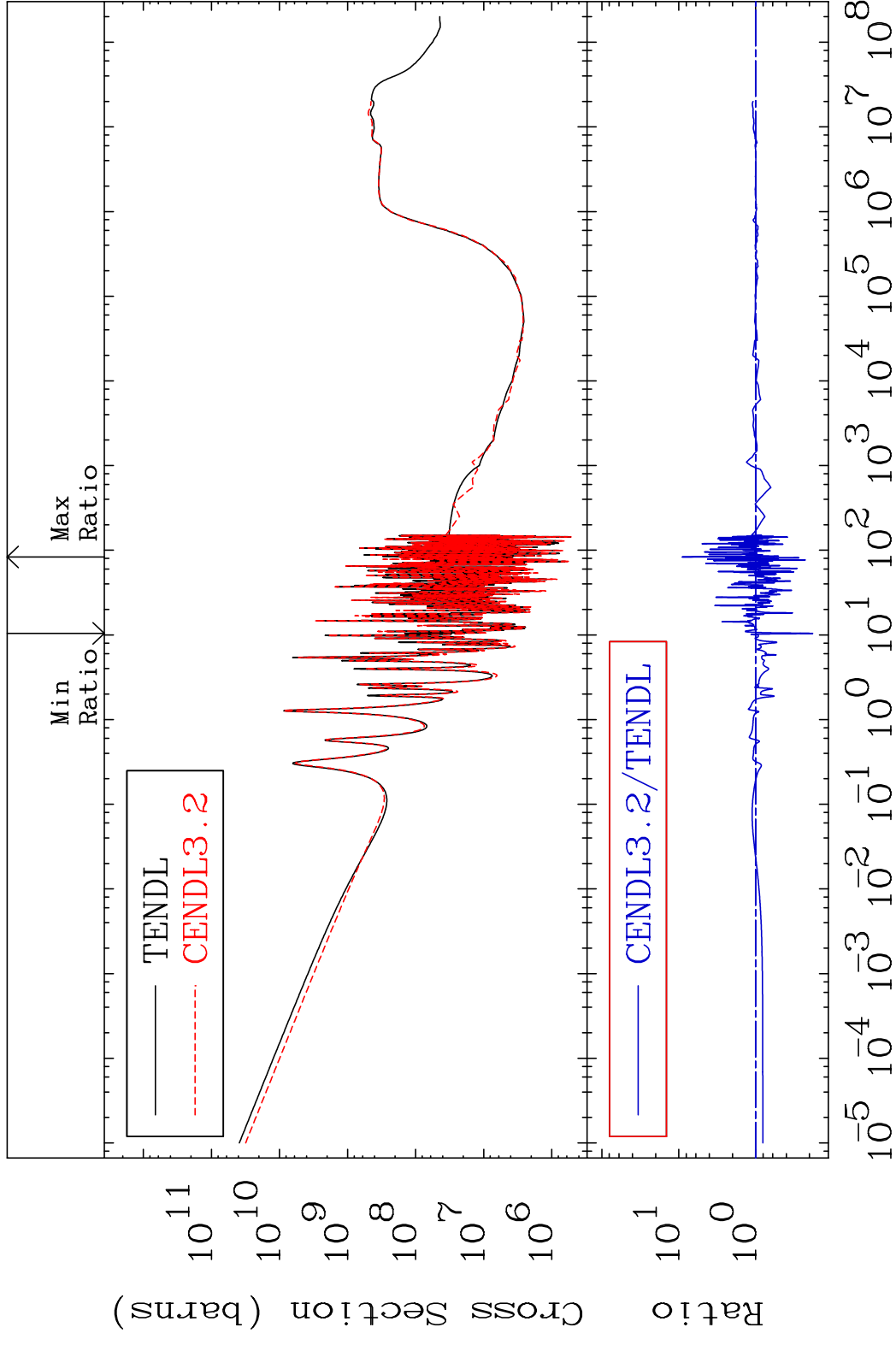
95-Am-241

MAT 9543 Total photon (eV-barns) 95-Am-241  
 Cross Section -89.82 To 2149. %

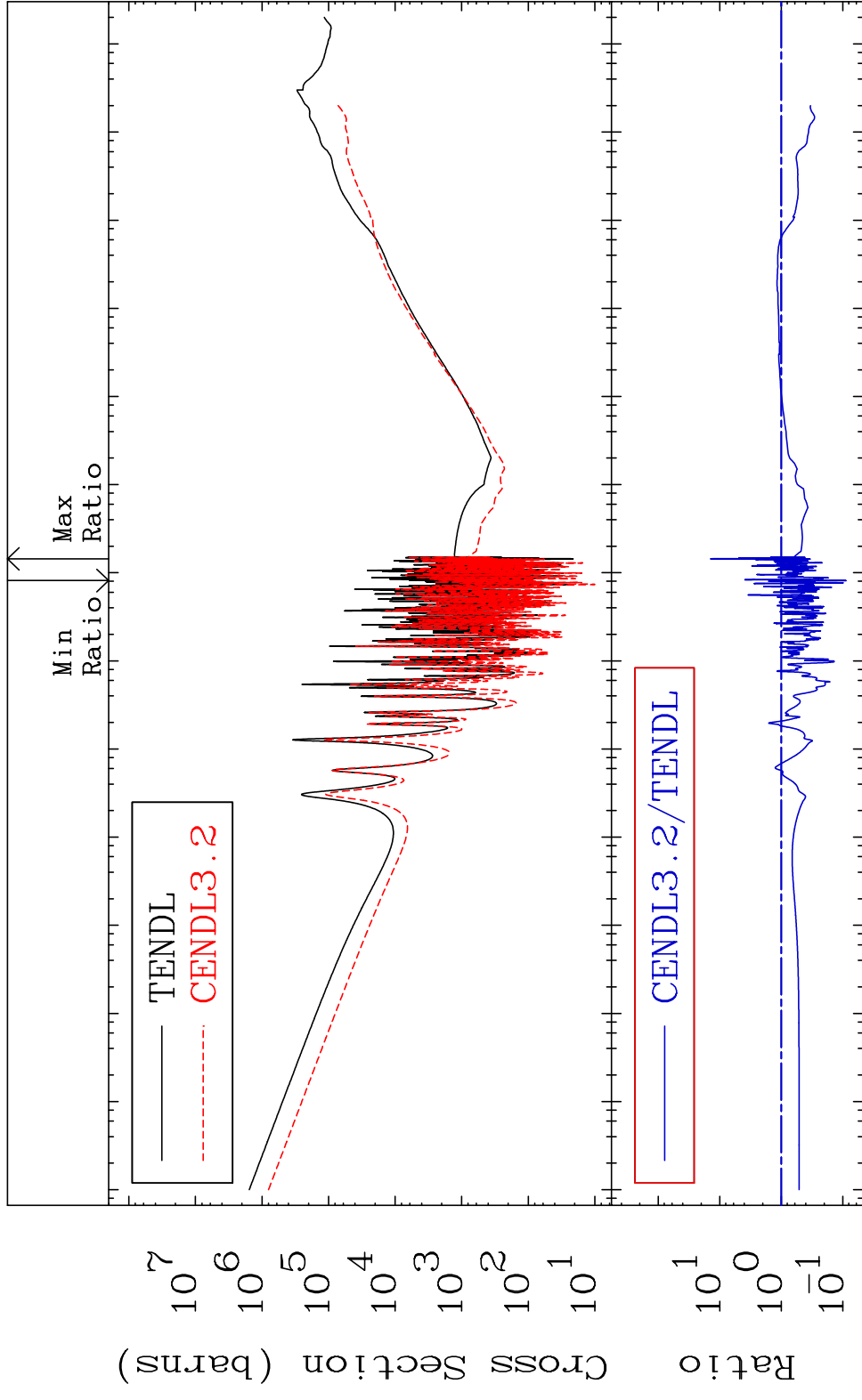


41 Incident Energy (eV) 95-Am-241

MAT 9543 Total kinematic kerma (high limit) 95-Am-241  
Cross Section -81.77 To 798.2 %



MAT 9543 Dpa total (eV-barns) 95-Am-241  
 Cross Section -91.25 To 1307. %

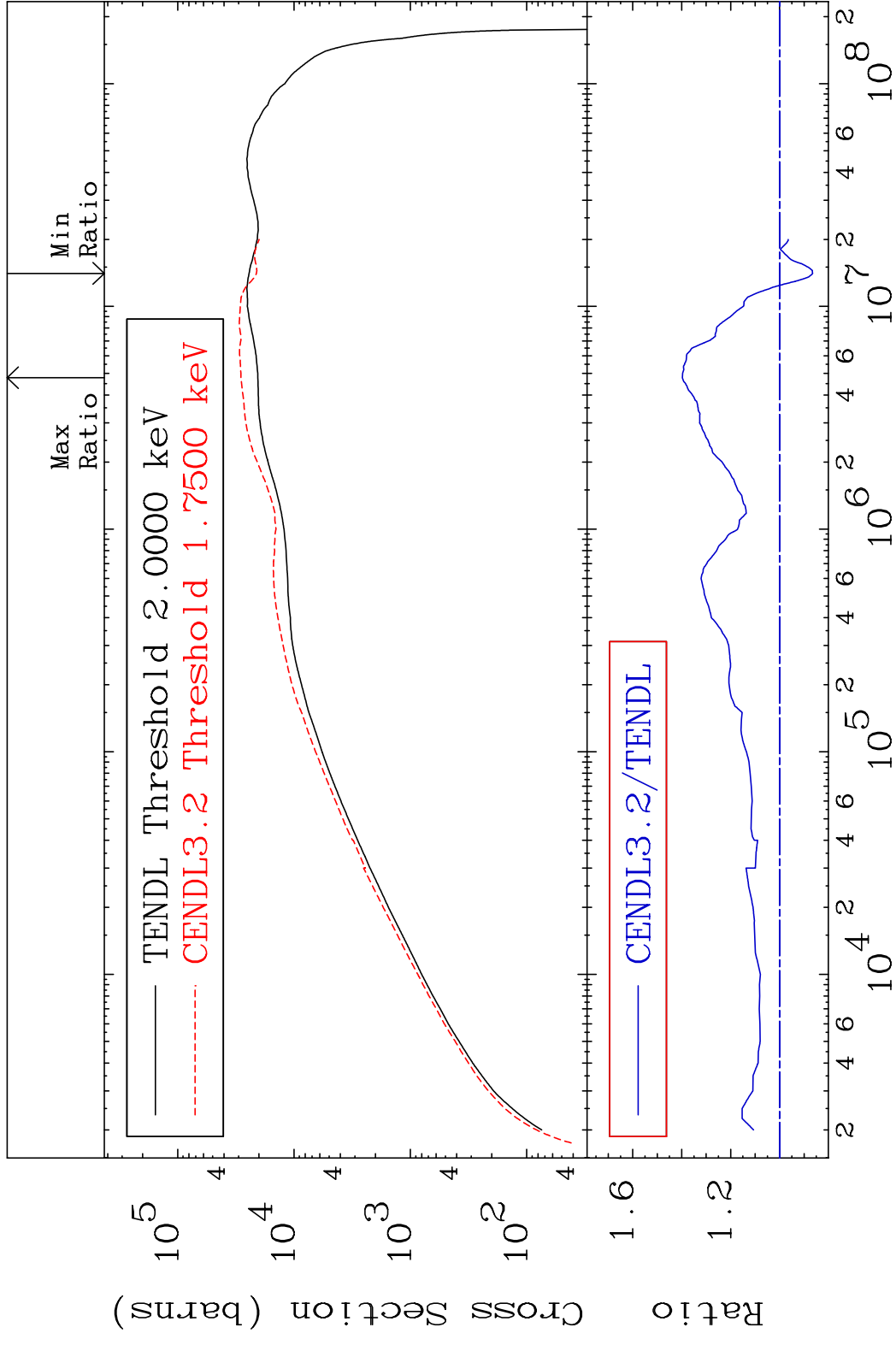


MAT 9543

Dpa elastic (mt2)

95-Am-241

Cross Section -13.45 To 39.74 %

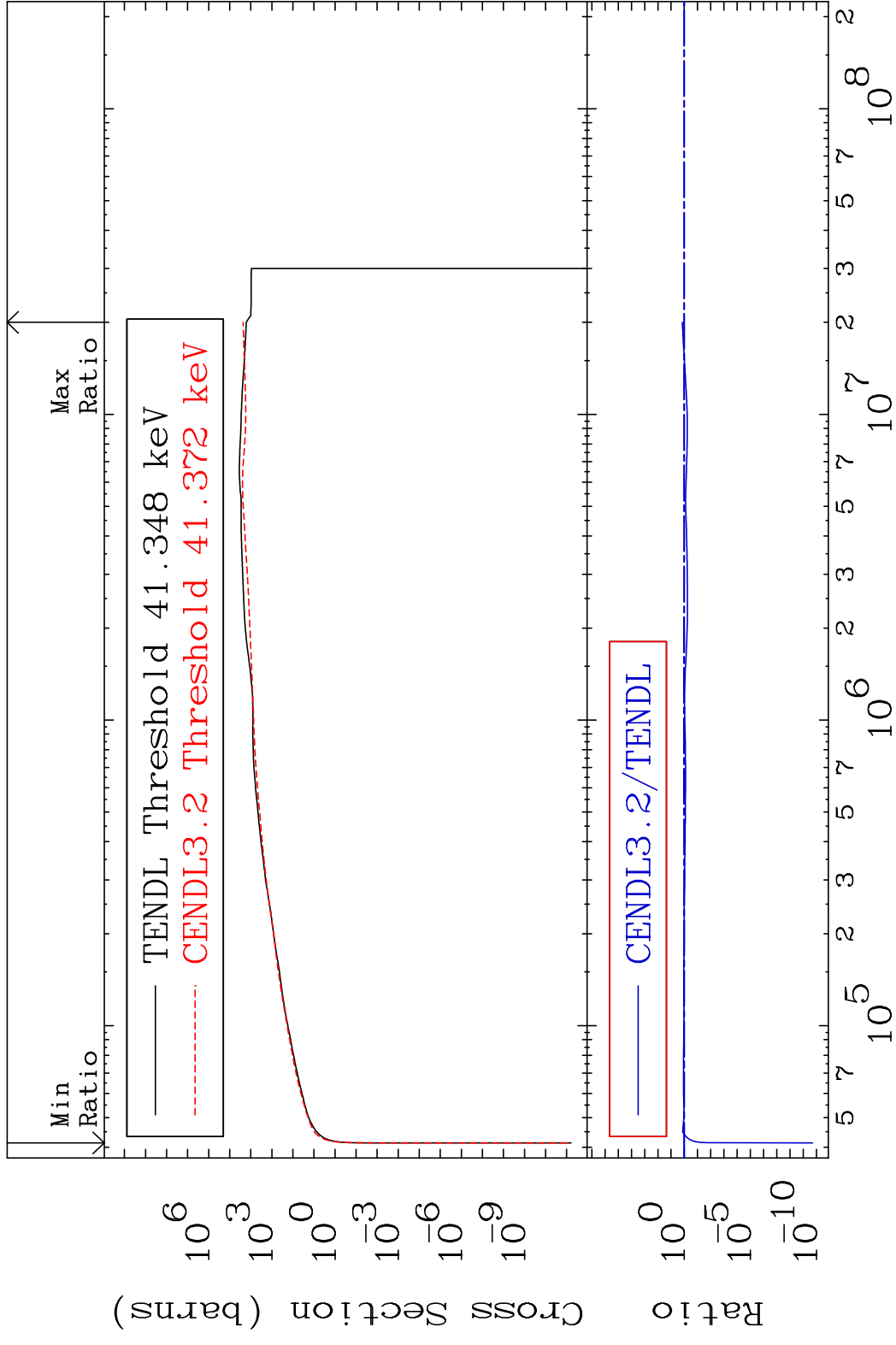


44

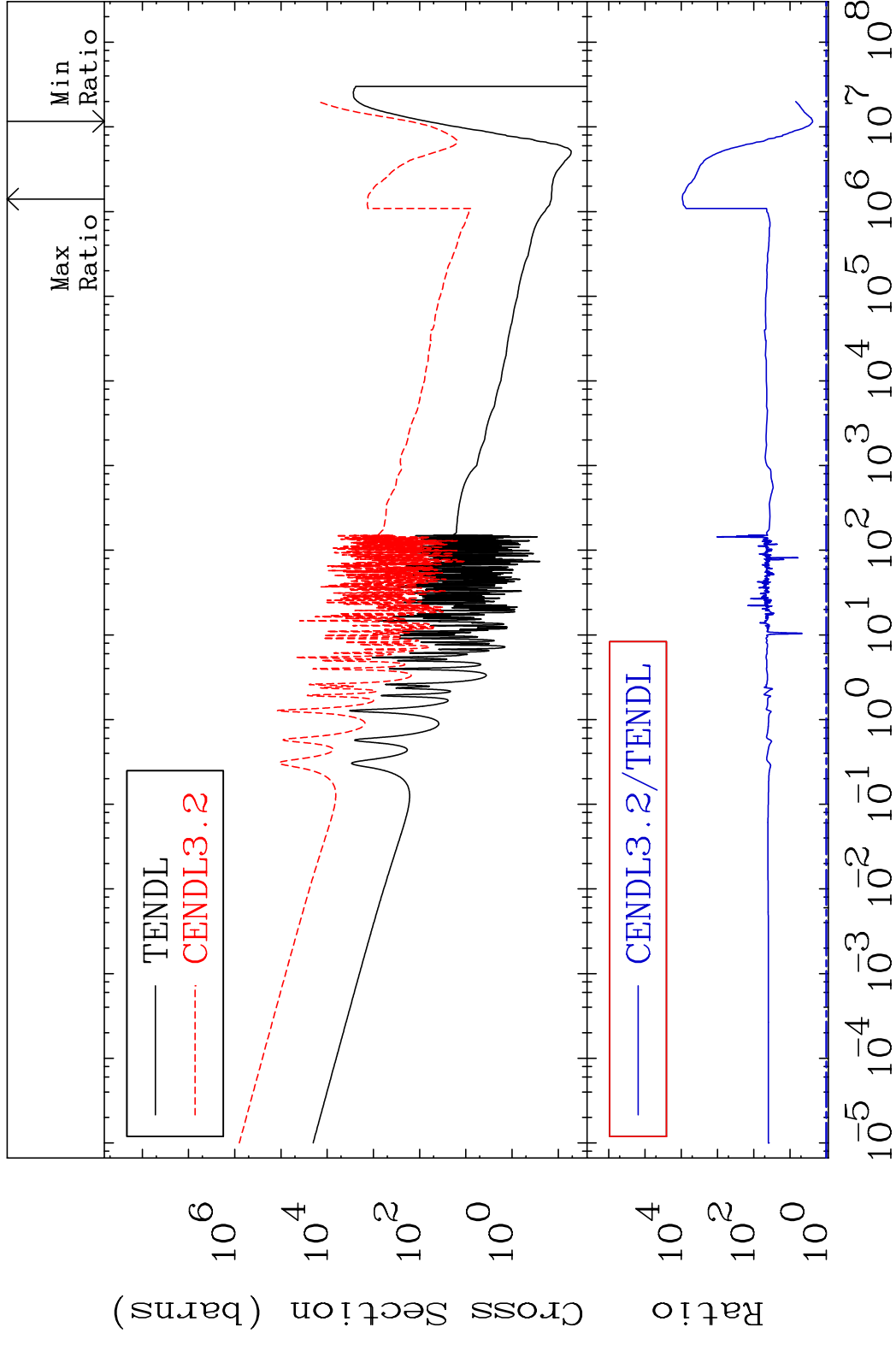
Incident Energy (eV)

95-Am-241

MAT 9543 Dpa inelastic (mt51-91) 95-Am-241  
 Cross Section -100.0 To 40.30 %



MAT 9543 Dpa disappearance (mt102 -120) 95-Am-241  
 Cross Section 140.2 To 9999. %

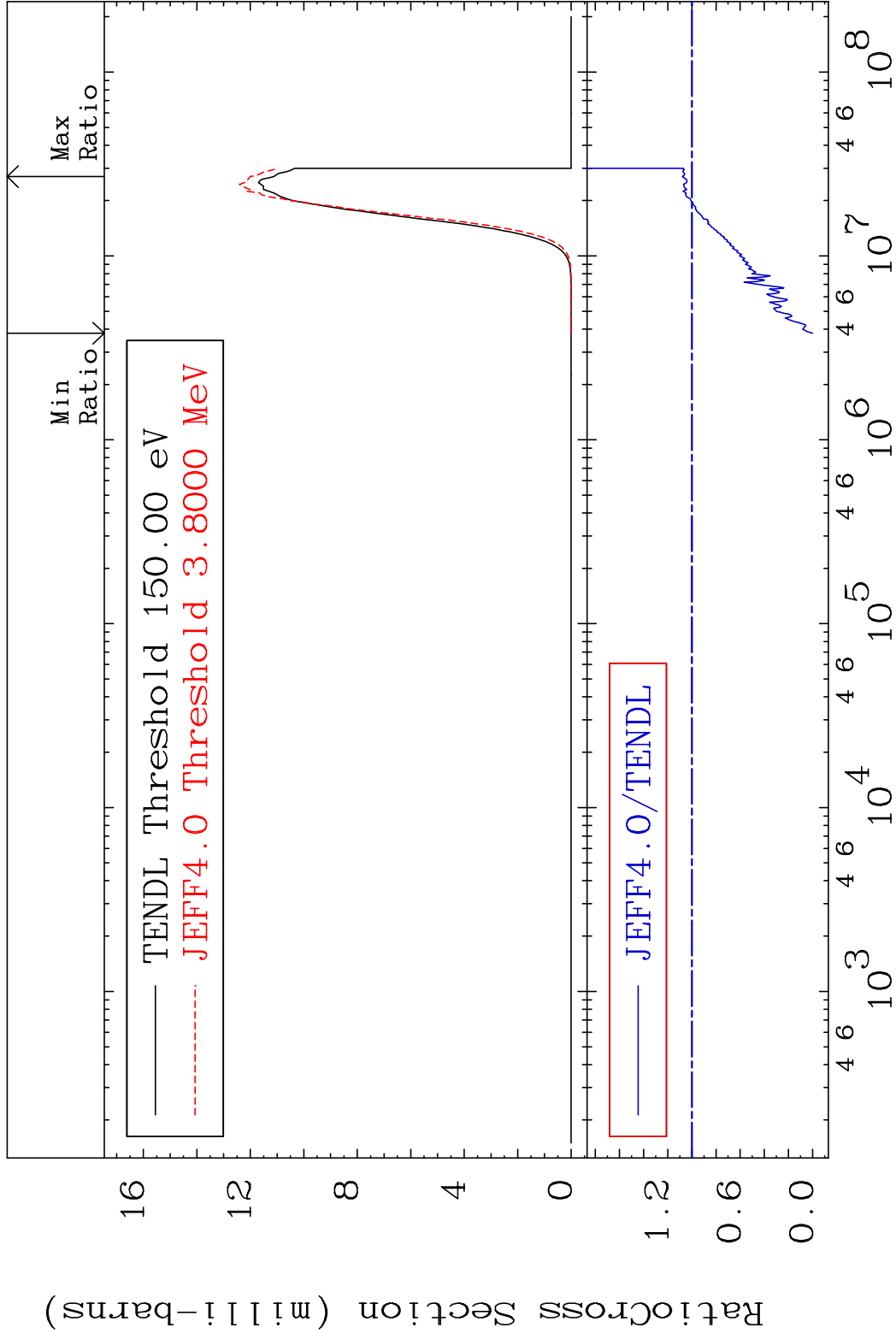


MAT 9543

(n, p)

95-Am-241

Cross Section -100.0 To 7.917 %



47

Incident Energy (eV)

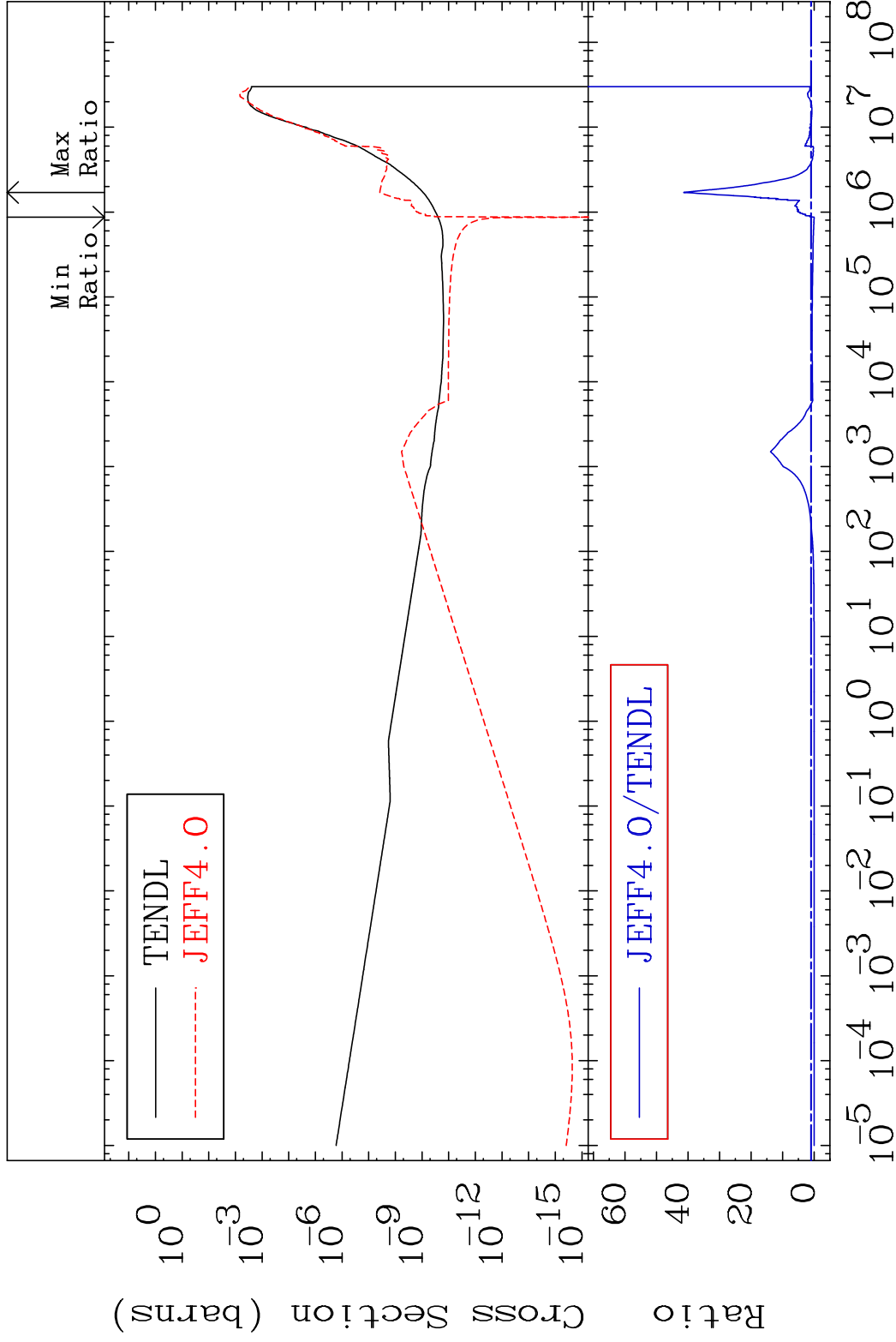
95-Am-241

MAT 9543

(n,  $\alpha$ )

95-Am-241

Cross Section -100.0 To 4040. %



48

Incident Energy (eV)

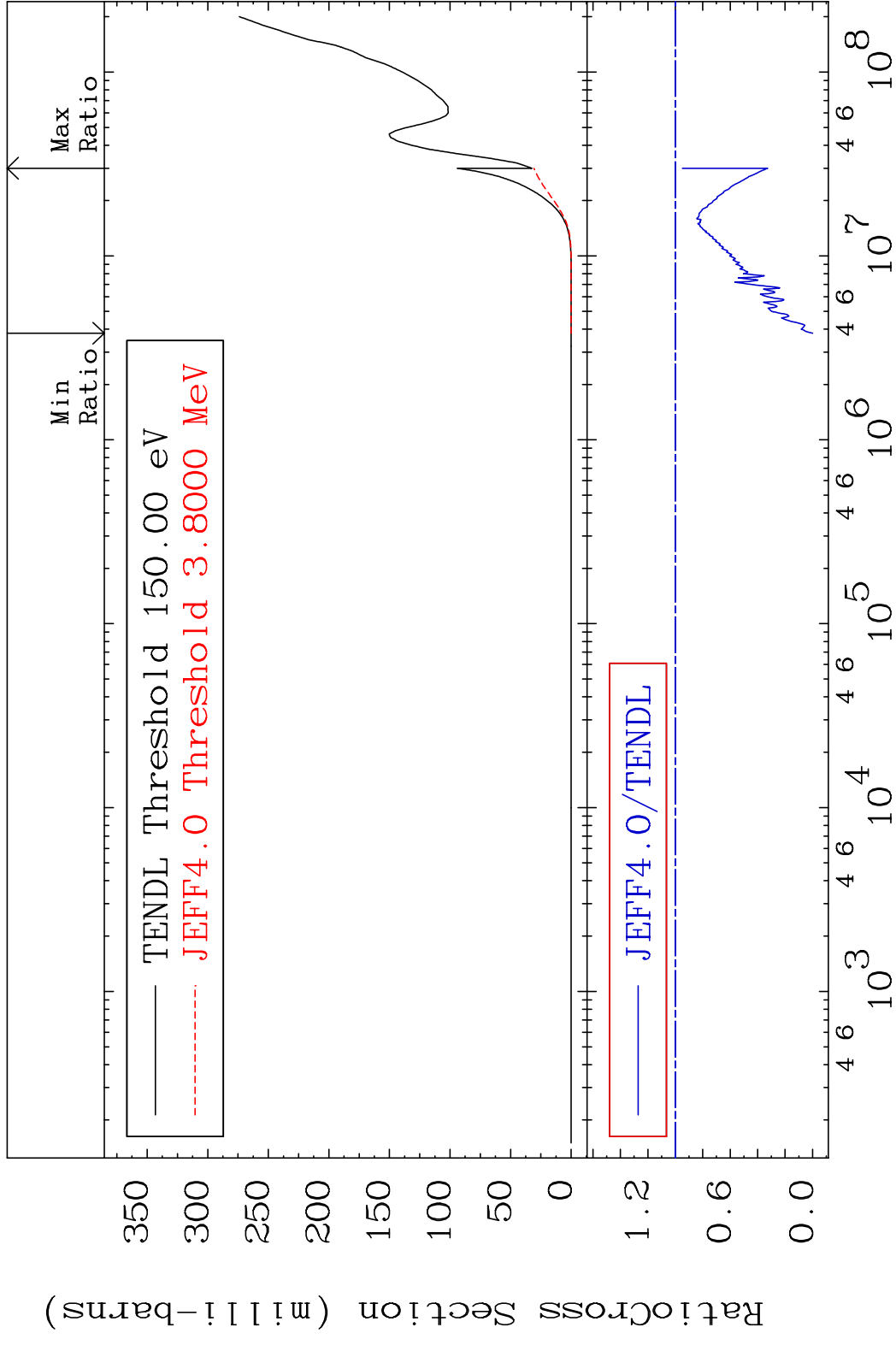
95-Am-241

MAT 9543

Hydrogen Production

95-Am-241

Cross Section -100.0 To -5.143%

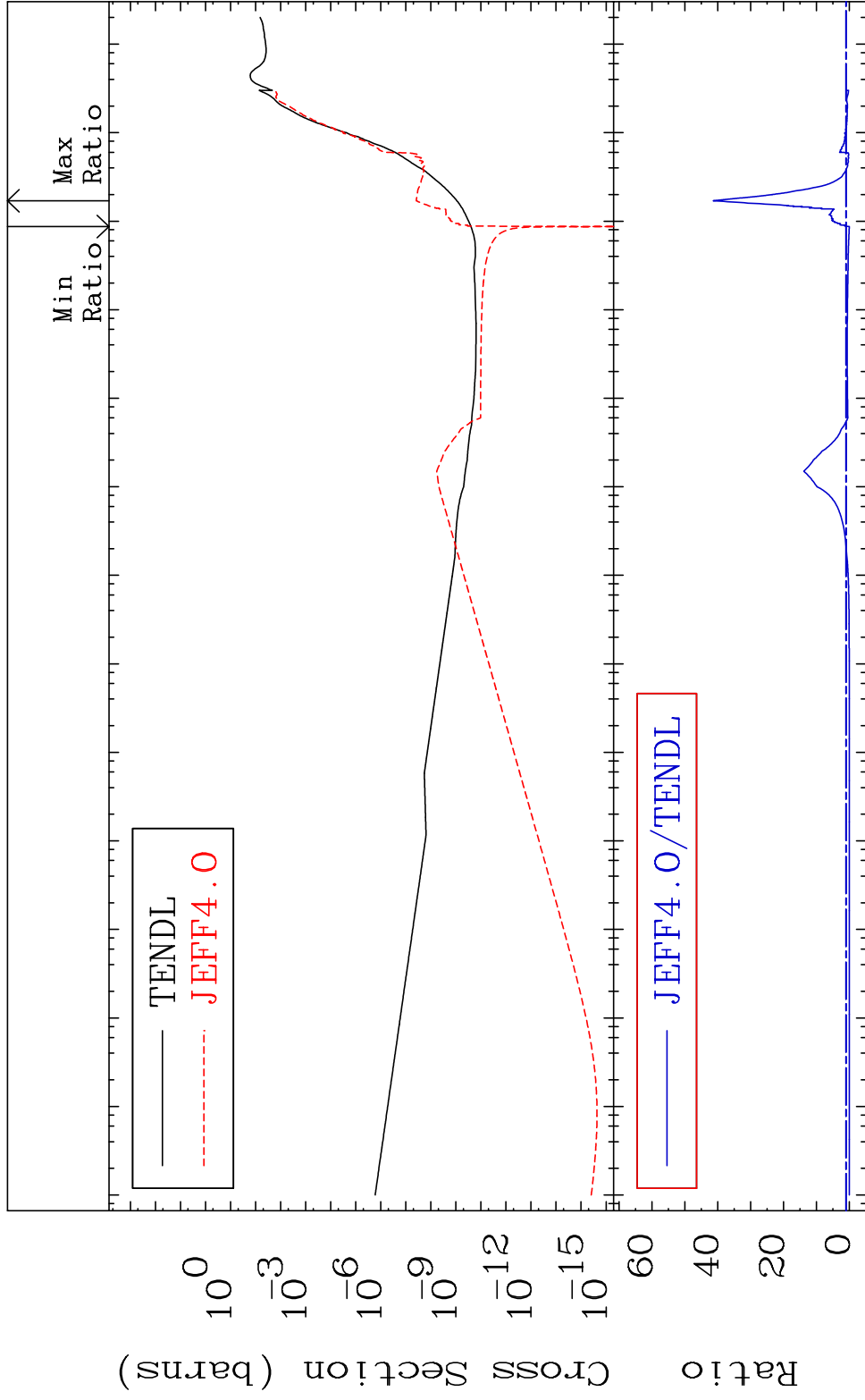


MAT 9543

He-4 Production

95-Am-241

Cross Section -100.0 To 4040. %

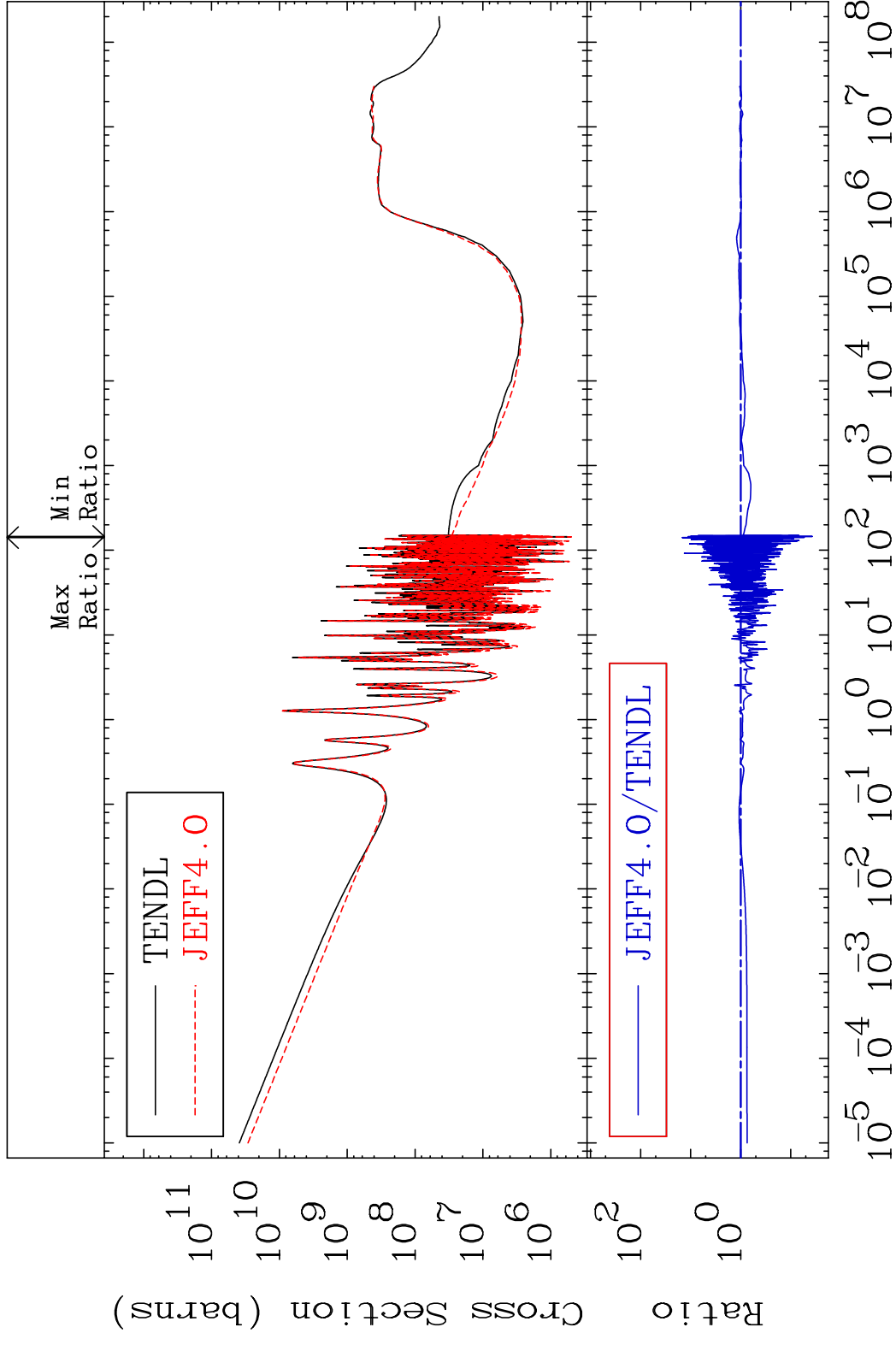


50

Incident Energy (eV)

95-Am-241

MAT 9543 Kerma total (eV-barns) 95-Am-241  
 Cross Section -96.33 To 1364. %

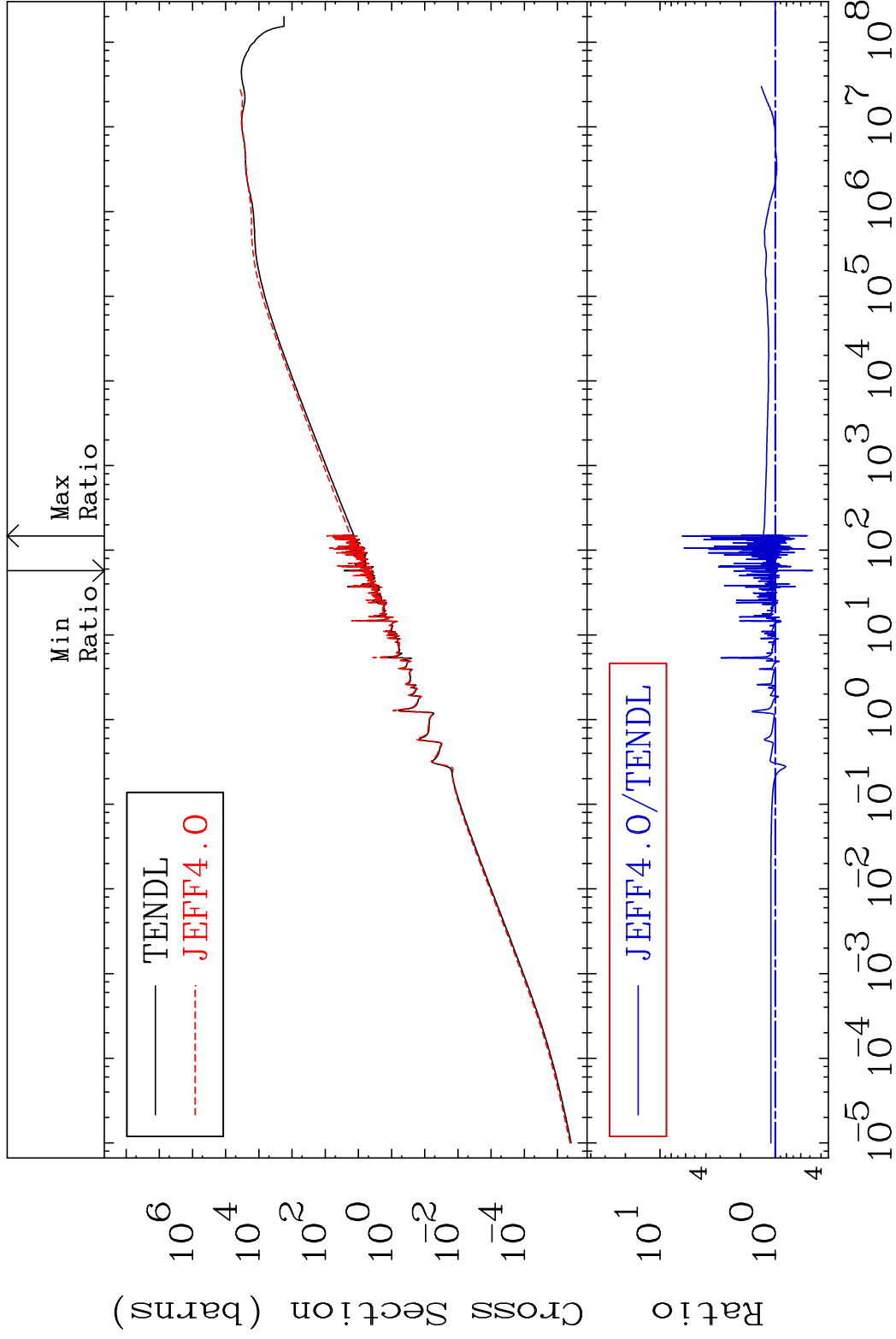


MAT 9543

Kerma elastic

95-Am-241

Cross Section -52.52 To 539.9 %

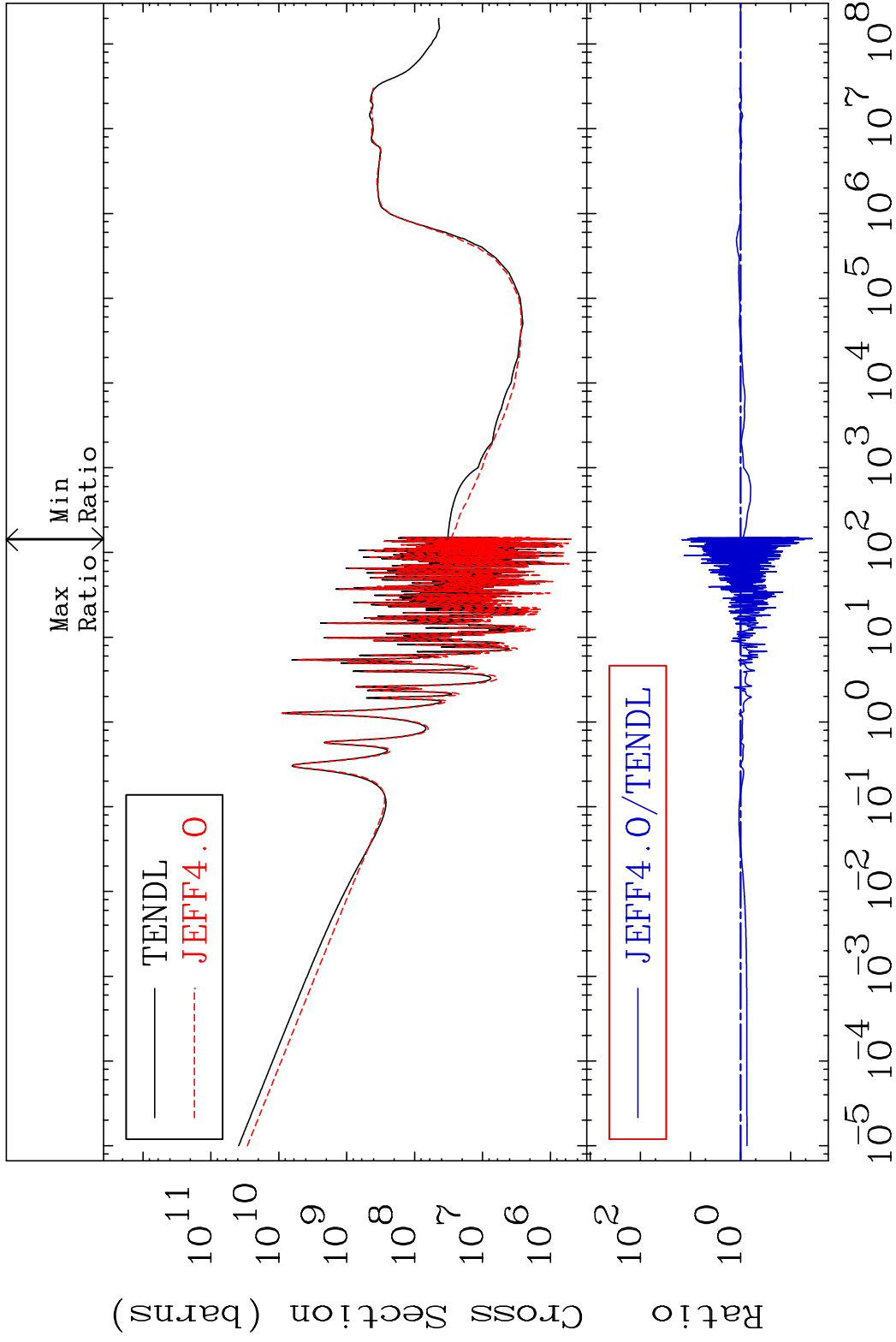


52

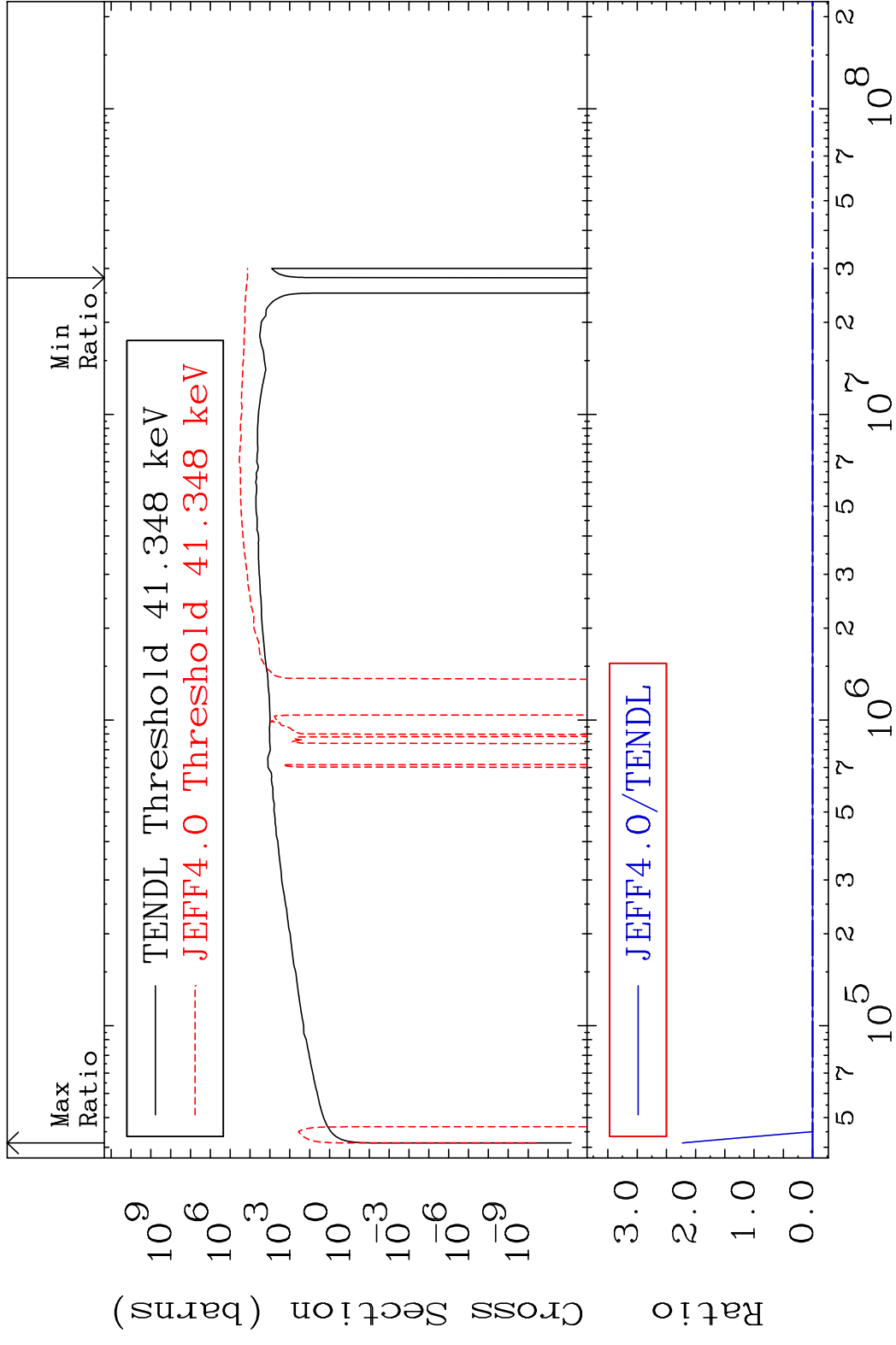
Incident Energy (eV)

95-Am-241

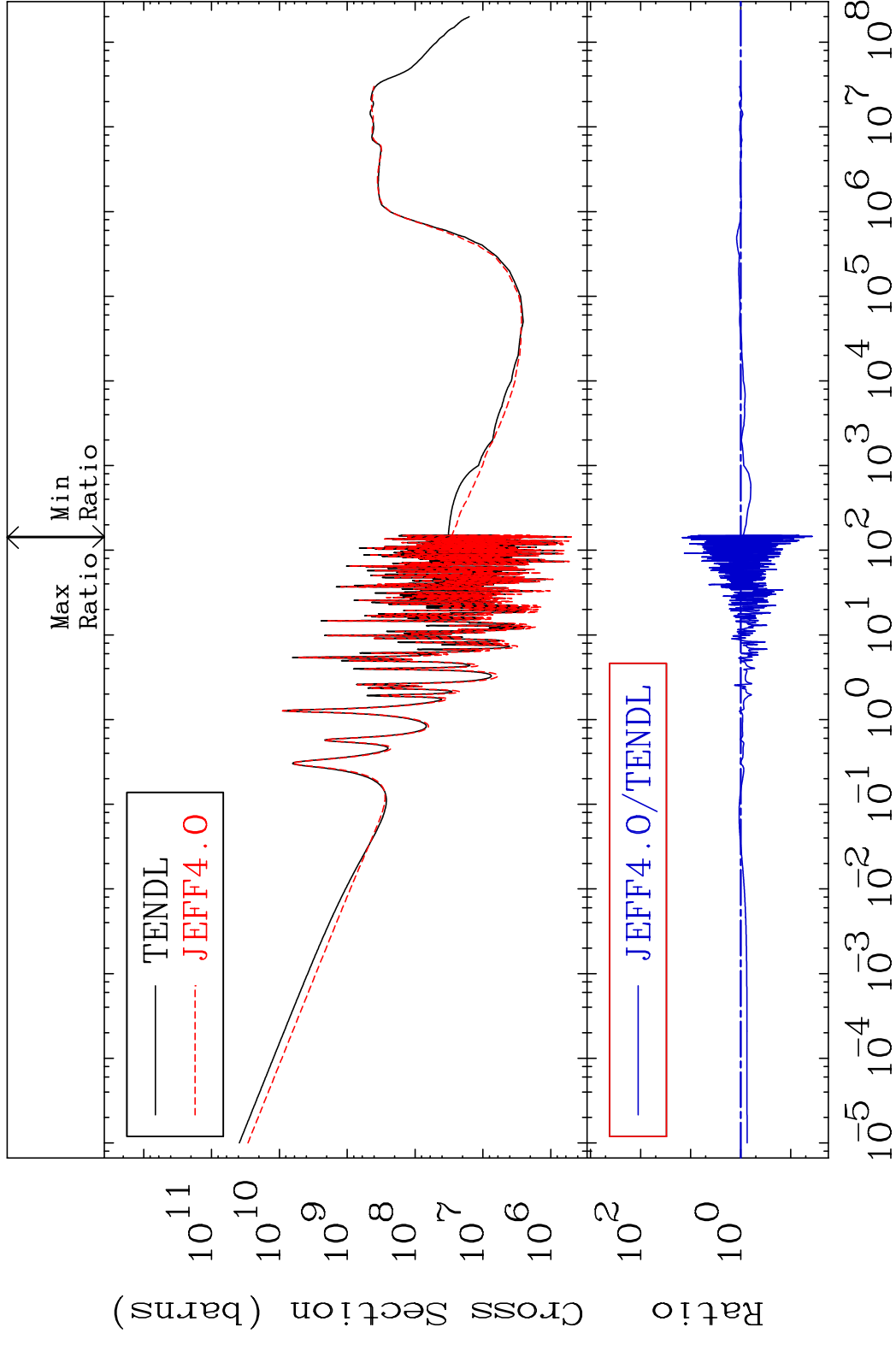
MAT 9543 Kerma non-elastic (all but mt2) 95-Am-241  
 Cross Section -96.33 To 1364. %



MAT 9543 Kerma inelastic (mt51-91) 95-Am-241  
 Cross Section -9999. To 9999. %

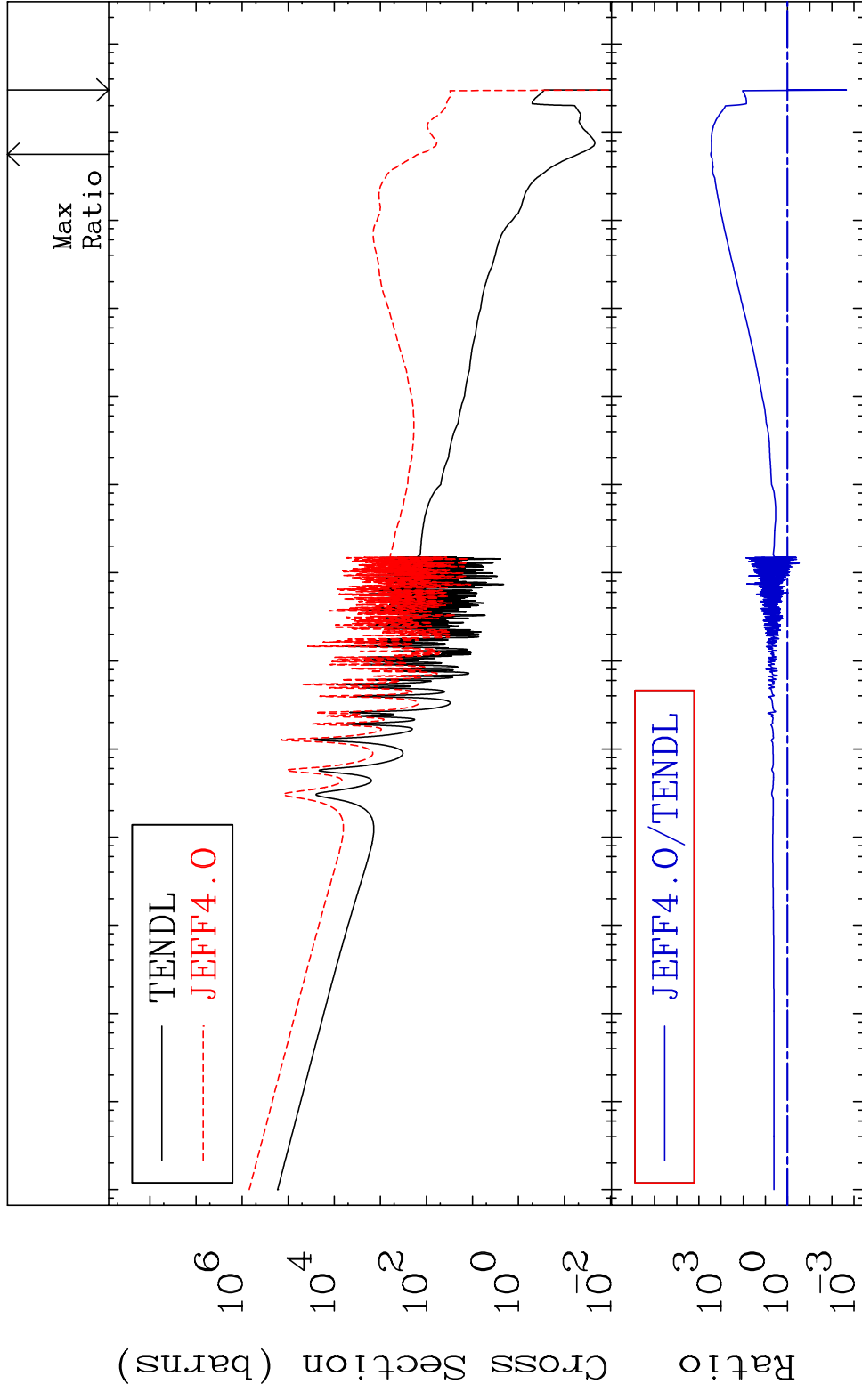


MAT 9543 Kerma fission (mt18 or mt19-20-21-38) 95-Am-241  
 Cross Section -96.33 To 1364. %



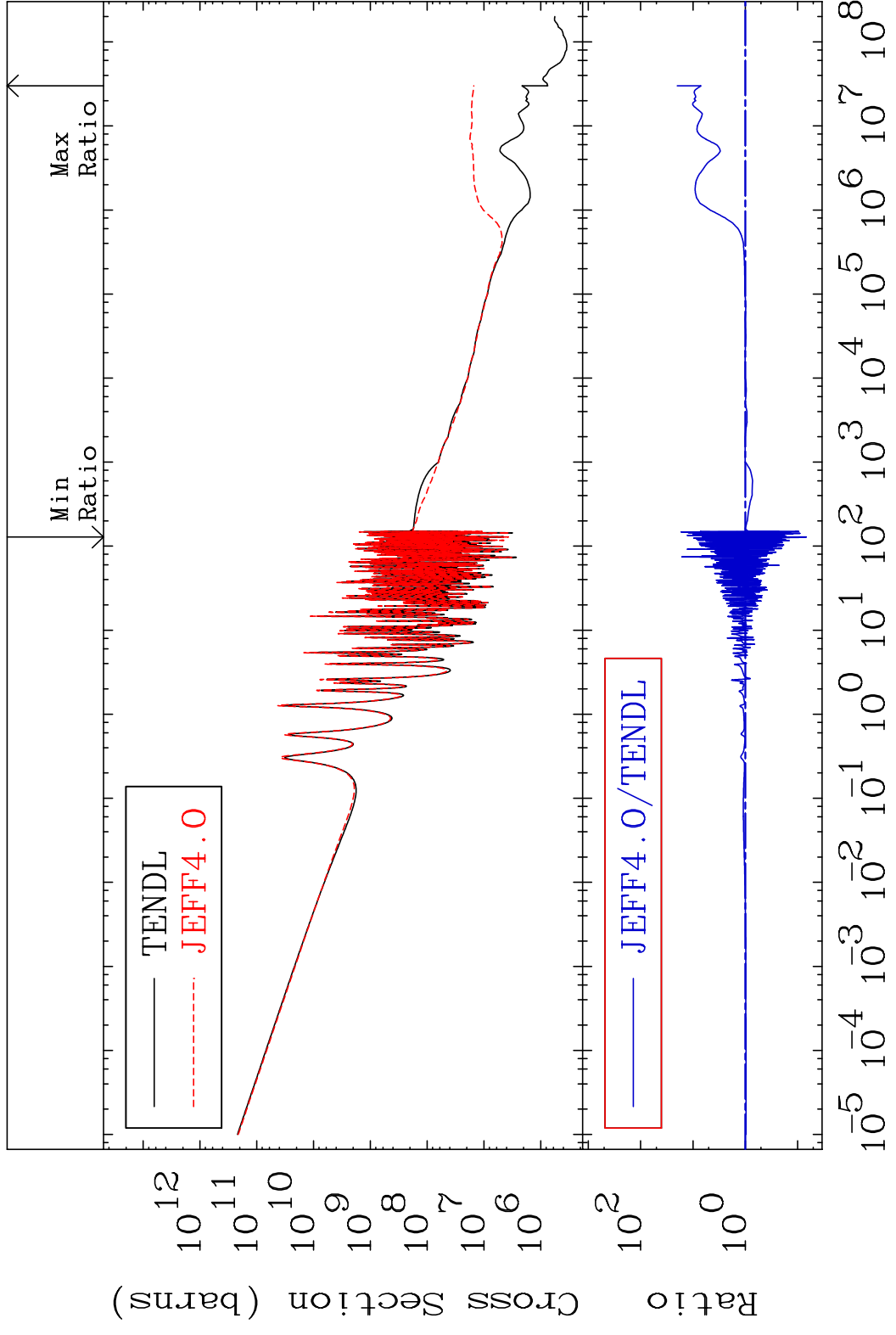
MAT 9543

Kerma capture (mt102) 95-Am-241  
Cross Section -99.78 To 9999. %

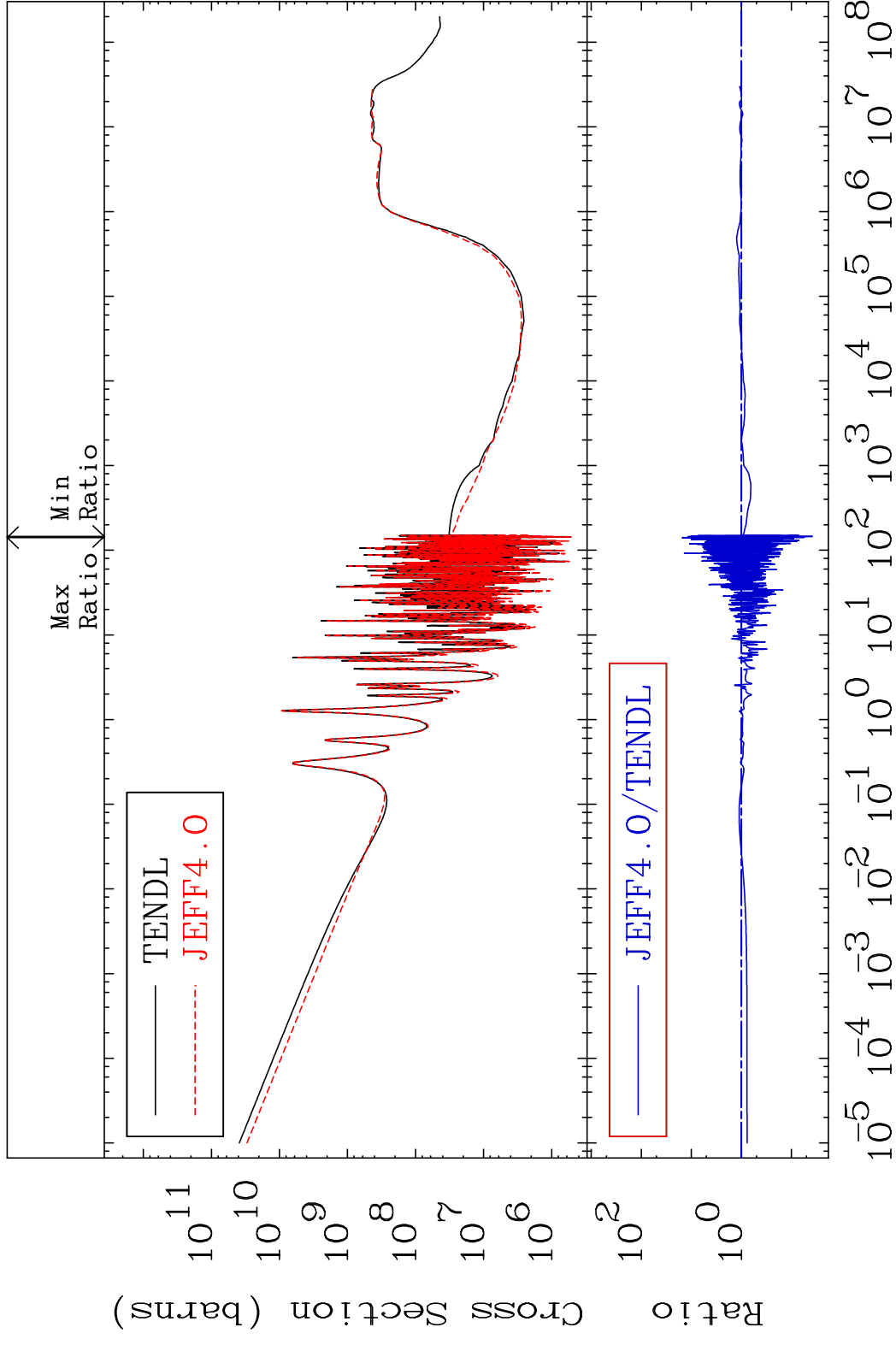


MAT 9543

Total photon (eV-barns) 95-Am-241  
Cross Section -93.22 To 1902. %



MAT 9543 Total kinematic kerma (high limit) 95-Am-241  
 Cross Section -96.21 To 1414. %

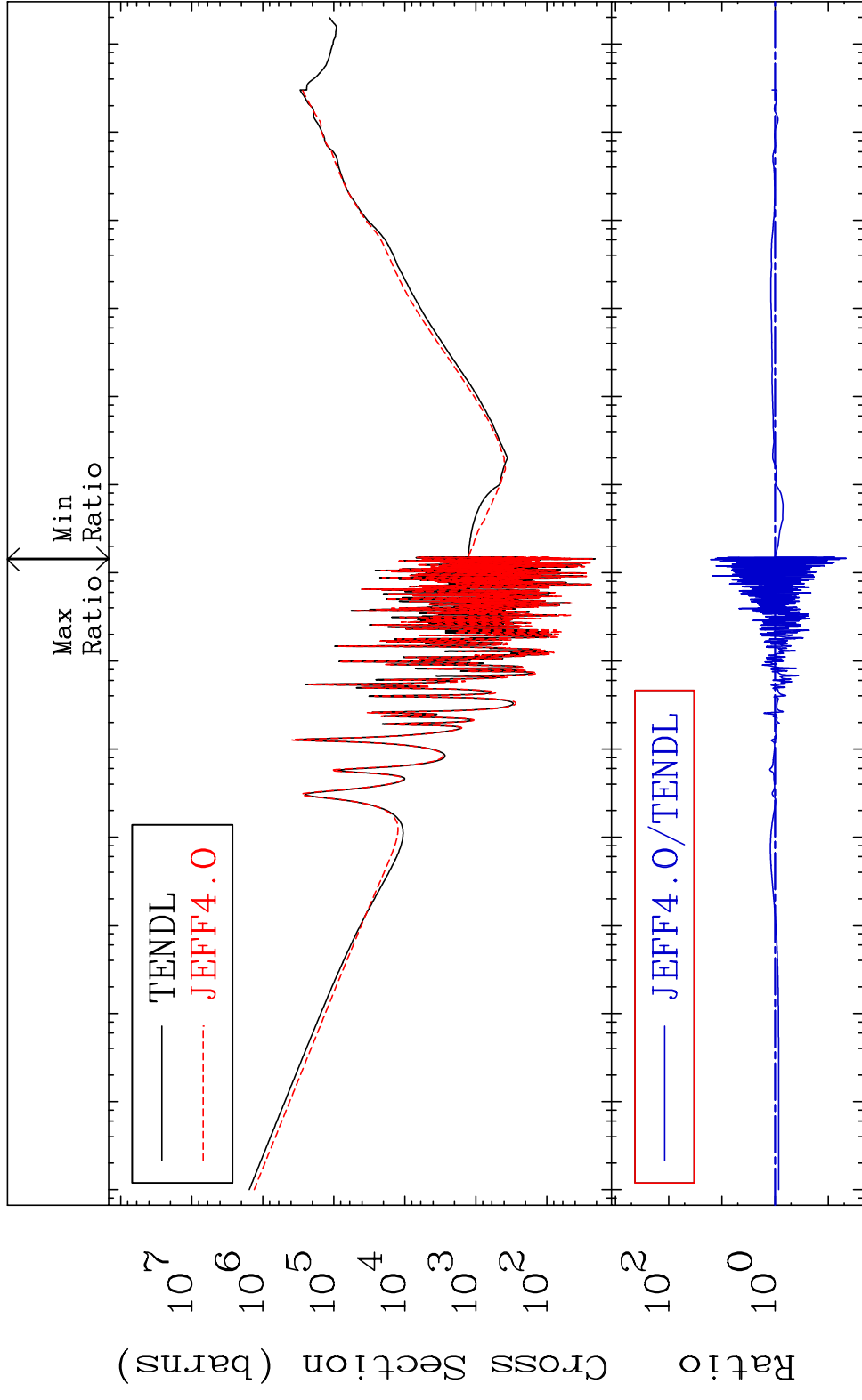


MAT 9543

Dpa total (eV-barns)

95-Am-241

Cross Section -95.42 To 1518. %



59

Incident Energy (eV)

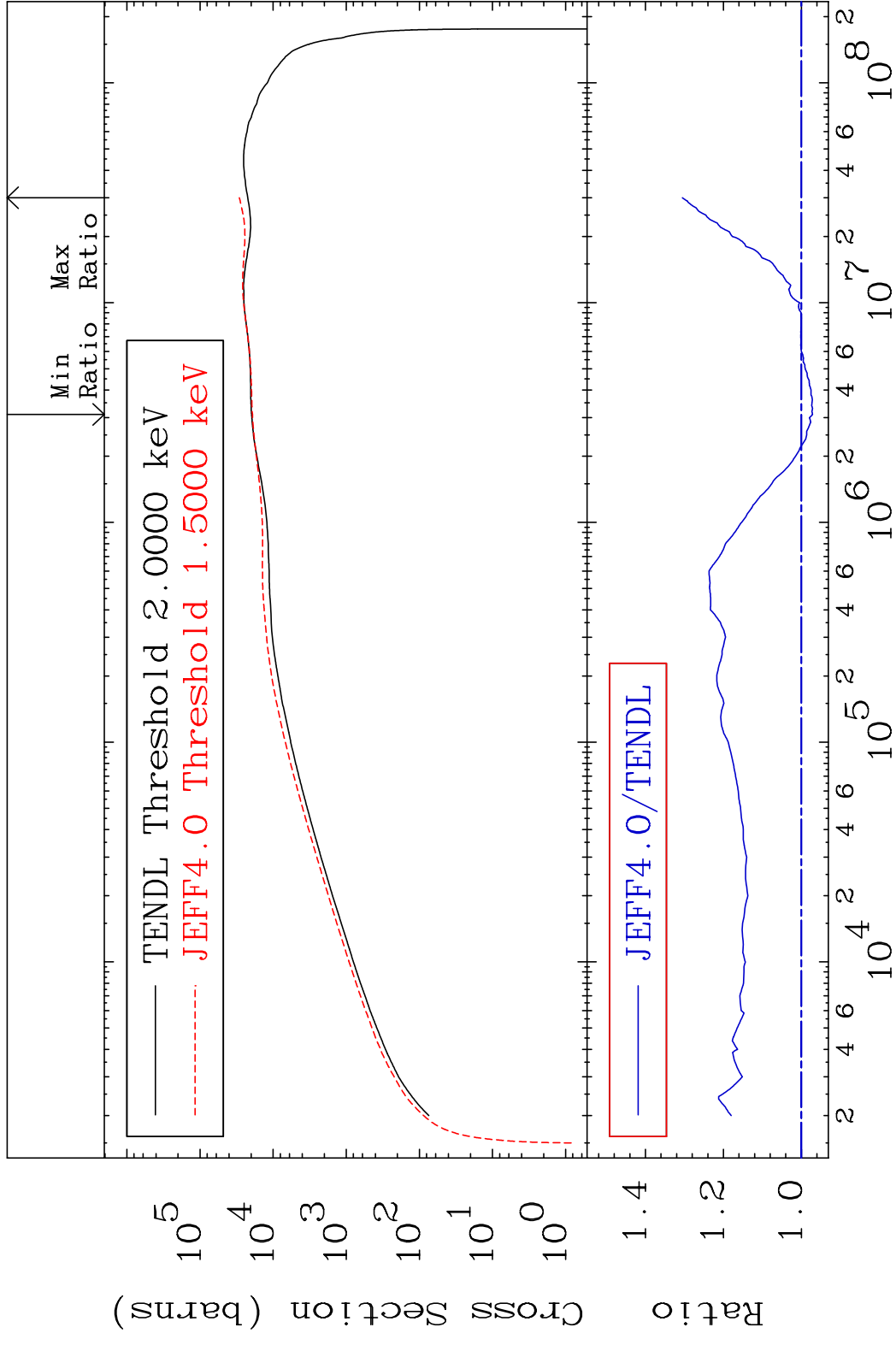
95-Am-241

MAT 9543

Dpa elastic (mt2)

95-Am-241

Cross Section -2.877 To 30.54 %

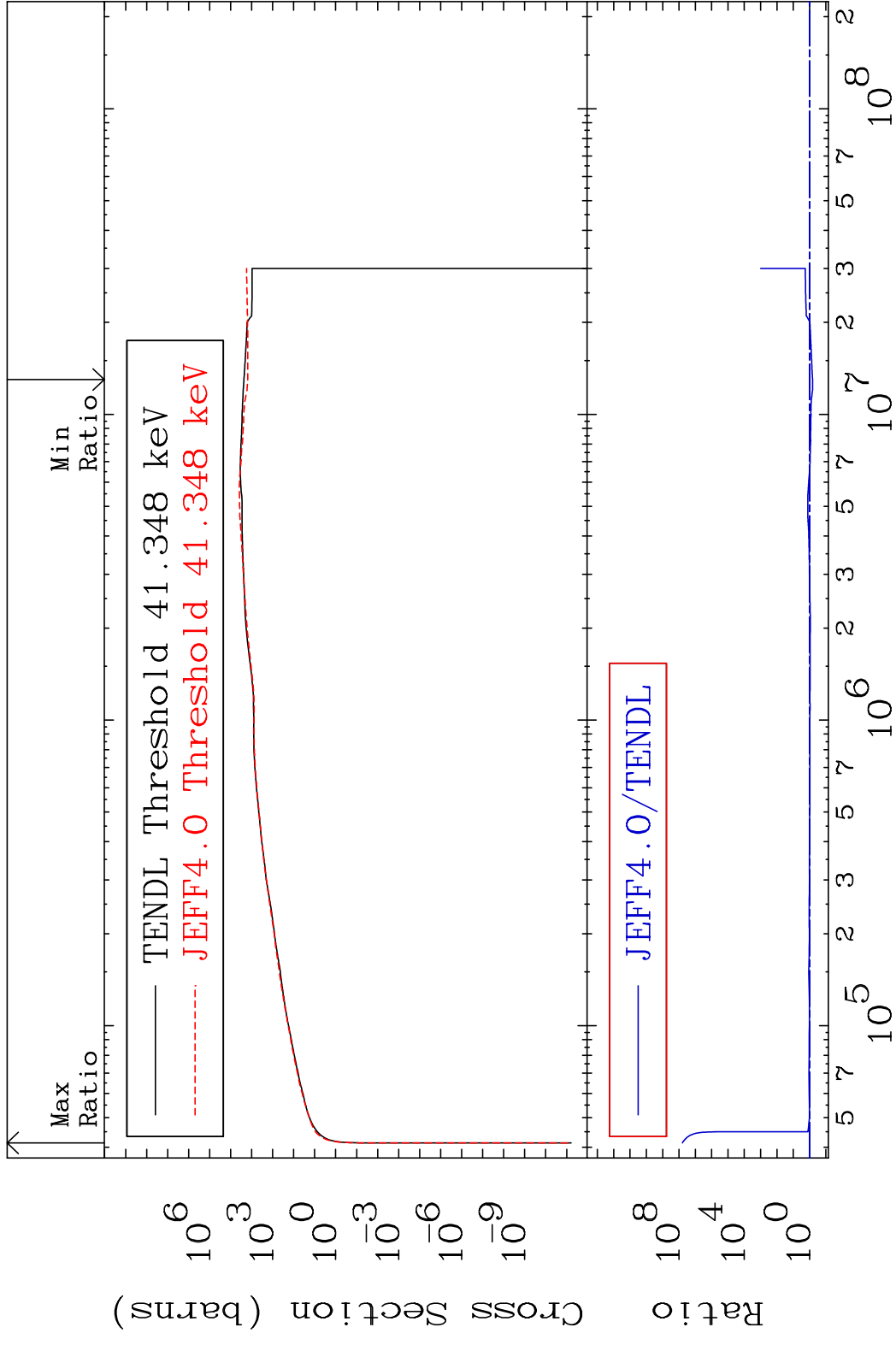


60

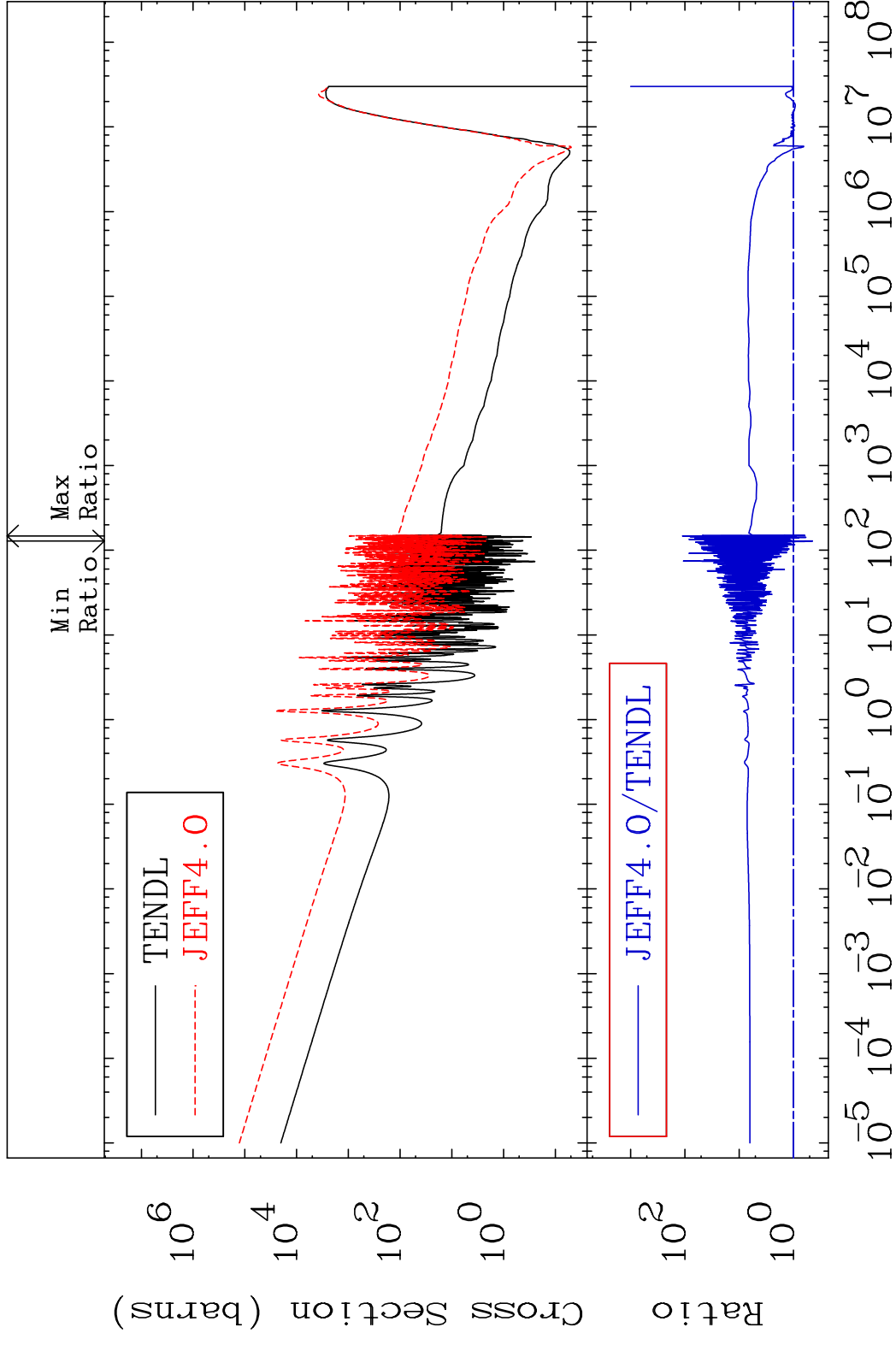
Incident Energy (eV)

95-Am-241

MAT 9543 Dpa inelastic (mt51-91) 95-Am-241  
 Cross Section -34.13 To 9999. %



MAT 9543 Dpa disappearance (mt102 -120) 95-Am-241  
 Cross Section -55.69 To 9999. %



62 Incident Energy (eV) 95-Am-241