

Additional material for **Error Bars and Data Fitting**

Commands

plot 'xydy.txt' using 1:2:3 with yerrorbars

$f(x) = a * \exp(-k*x)$

fit f(x) 'xydy.txt' using 1:2:3 via a,k

plot f(x) lw 2 title 'fitted data', "xydy.txt" using 1:2:3 with yerrorbars pt 7 ps 1.5 notitle

set xrange [0.95:5.05]

set arrow 1 from 1.63,77200 to 1.7, 62000

set arrow 2 from 1.63,77200 to 1.4, 62000

unset arrow 1

An example for assignment commands

plot 'assignment.txt' using 1:2:3:4 with xyerrorbars

$f(x) = a * \exp(-k*x) + b * \exp(-l*x) + c$

a= 0.2

b=0.2

k=0.2

l=0.1

c=0.05

fit f(x) 'assignment.txt' using 1:2:4 via a,b,k,l,c

plot f(x) lw 2 title 'fitted data', "assignment.txt" using 1:2:3:4 with xyerrorbars pt 7 ps 1.3 notitle