

## A QUICK GUIDE TO sciDAVis

### 1. To start the program:

- Double click the sciDAVis icon.
- Alternatively *Start →sciDAVis→sciDAVis*

### 2. Entering, saving and printing data:

- In sciDAVis X is the dependent variable, Y the independent variable, and yEr is the error.
- To rename a column right click on the name and use the *Set Column As* command
- To add a new column right clicking on a column name and click on *Insert Empty Columns*
- Enter the data.
- Right Click on Table head then click “Print Data” in the menu.
- One can add a new table by *File→New Table*

### 3. To make a new column which is a function of the other columns:

- Add a new column by right clicking on a column name and click on *Insert Empty Columns*.
- Highlight the new column. In the *Formula* tab window type a formula: eg:  $12*\exp(-\text{col}("1")/\text{col}("2"))$  which produces a new column from columns 1 and 2; then click on *Apply*.

### 4. To plot the data:

- Highlight the data X,Y, and/or yEr you want to plot. Then click *Plot→Scatter*
- Clicking on the axis, curves, axis titles, or data points allows you to customize your graph.

### 5. To histogram (2 ways):

- 1) Enter a single column of numbers, highlight them, then *Plot→Statistical Graph→Histogram*. Click on a bar to bring up dialog. Click on *Table1:dummy(X),1(Y)* for binning. Click *Automatic Binning* to choose your own binning and type in the numbers you desire.
- 2) Enter X and Y columns of numbers, highlight them, then *Plot→Verticle Bars*. If you don't like the binning change the values as in 1) above.

### 6. To fit the data:

- Highlight the graph you want to fit. Execute *Analysis→Fit Wizard ...*In *Fit Wizard* click on *Built-in* then *Polnomial*. Check *Fit* using built-in function. Then click *Fit>>*. In Y Error Source boxes choose *Aribitrary Data Set*, and the table and column corresponding to your errors (sigma). Then click *Fit*. The values for the fit will be displayed in the *Results log*. If you want more information after the fit in *Fit Wizard* click on *Custom Output >>* button and choose the statistical result you want to see.