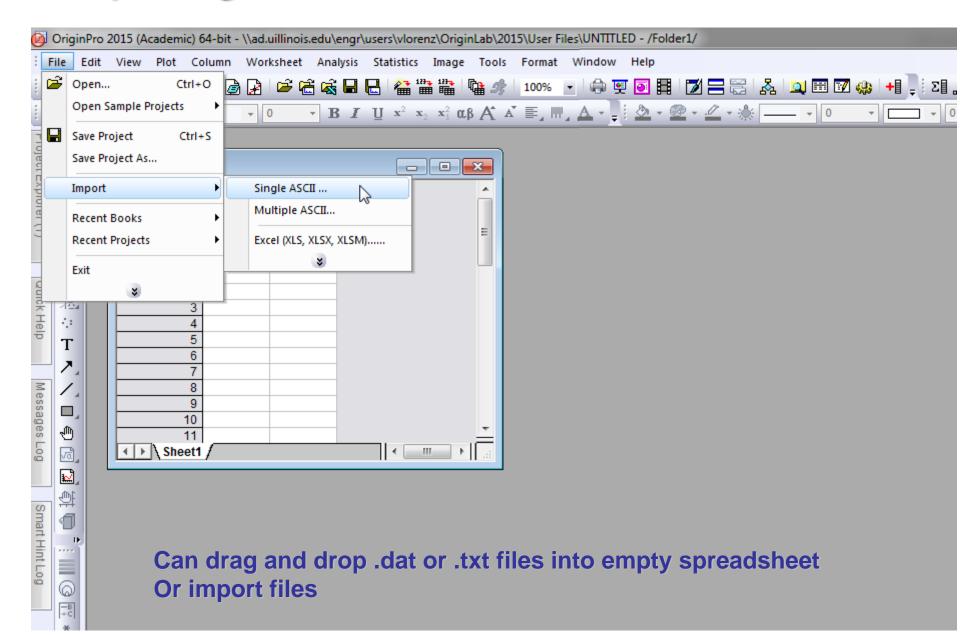
Origin Lab Scientific Graphing and Analysis Software

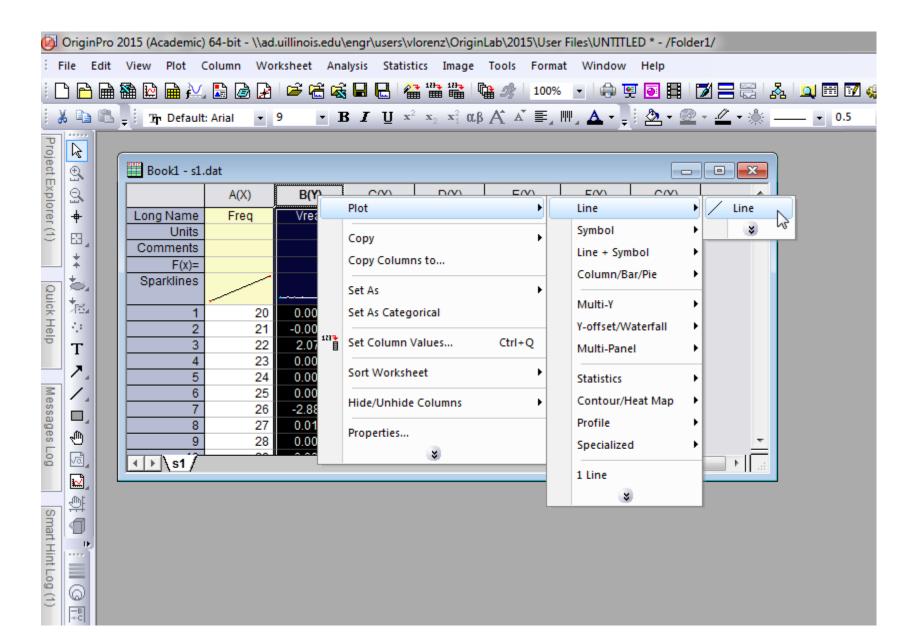
Origin is on all Physics 403 computers. What it can do:

- 1. Graphical presentation of data
- **2. Data analysis**
- 3. Preparation of publication-quality figures
- Specially designed for <u>scientific</u> graphics
- "Standard" Windows application, does not require knowledge of C++ or any other high level computer language
- Can write special functions or procedures using Origin programming tools

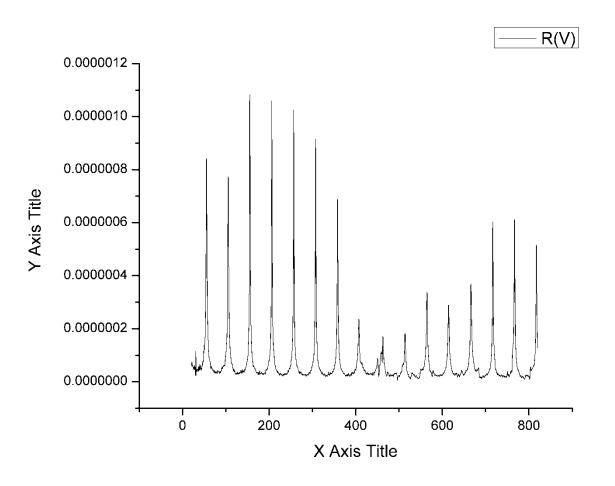
Importing data



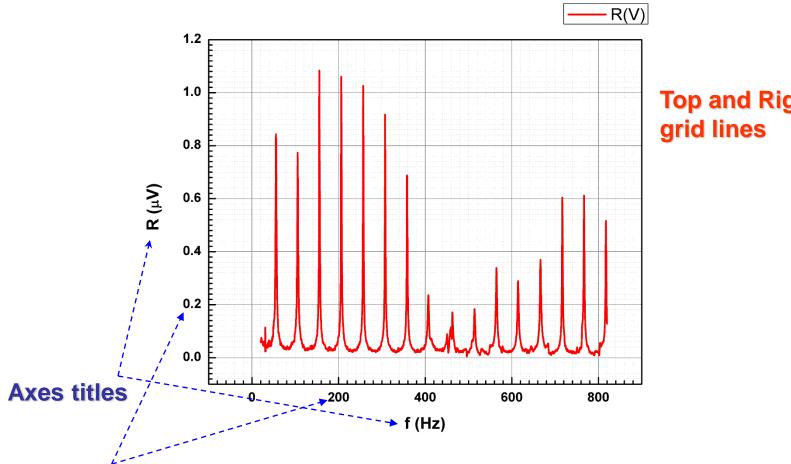
Graphical presentation of data: Basic Plot



Graphical presentation of data: Basic Plot



Graphical presentation of data: Basic Plot

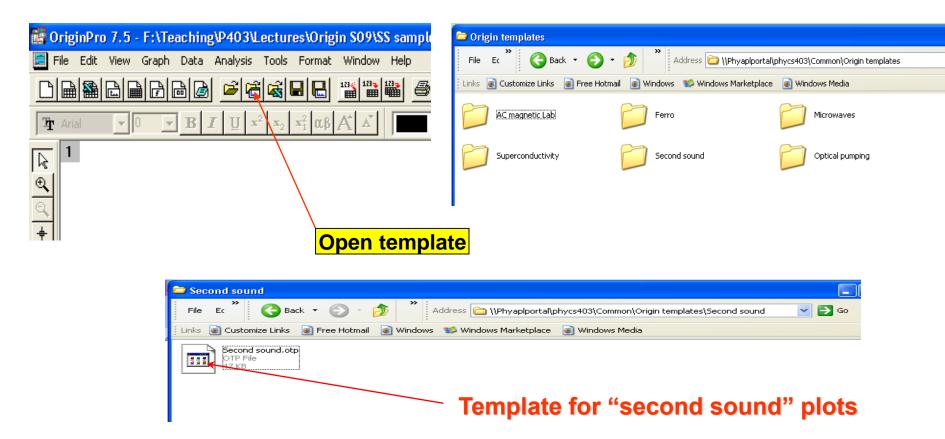


Top and Right axes,

Bold tick labels.

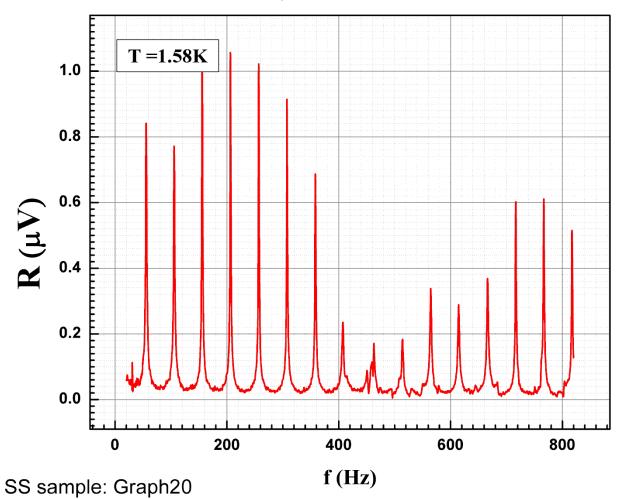
For a better-looking graph, volts were converted to µV

Graphical presentation of data: Templates

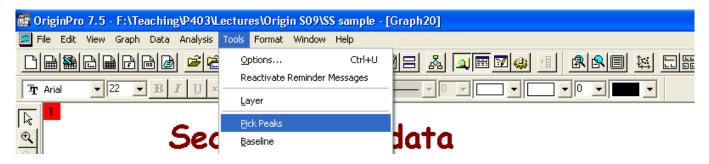


Graphical presentation of data: Templates

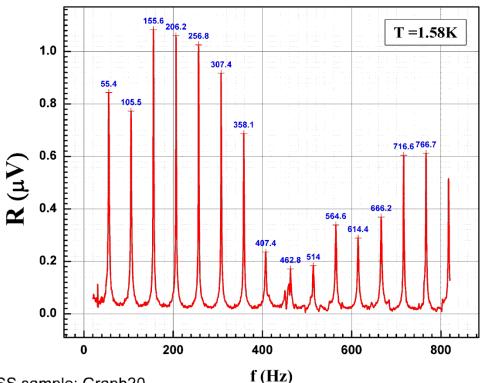
Second sound data



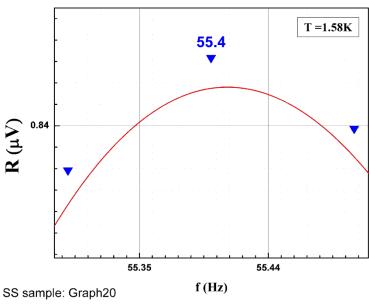
Graphical presentation of data: Fitting, etc.



Second sound data

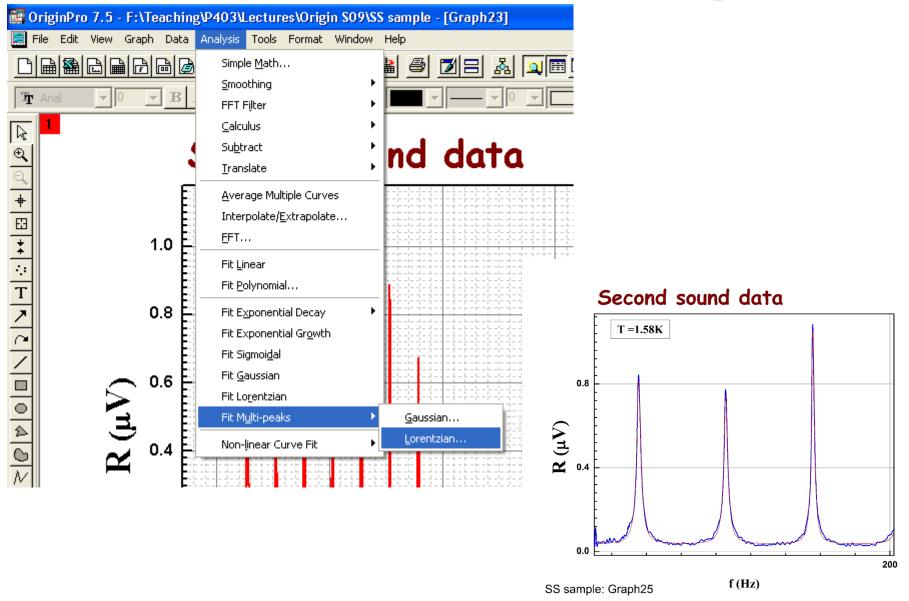


Second sound data



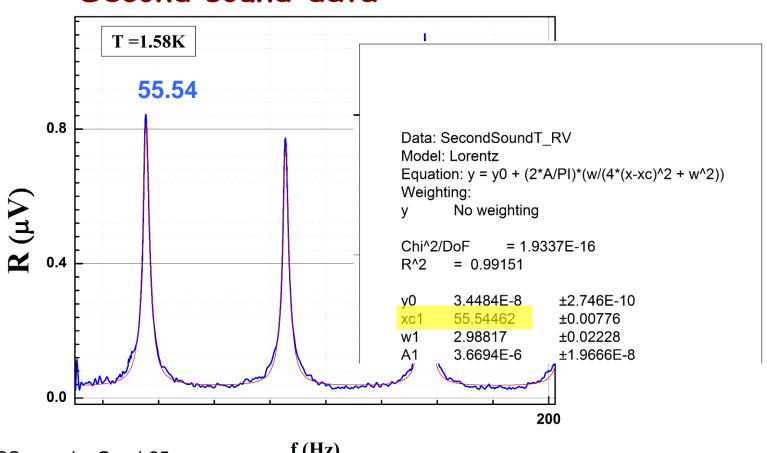
SS sample: Graph20

Graphical presentation of data: Fitting, etc.



Graphical presentation of data: Fitting, etc.

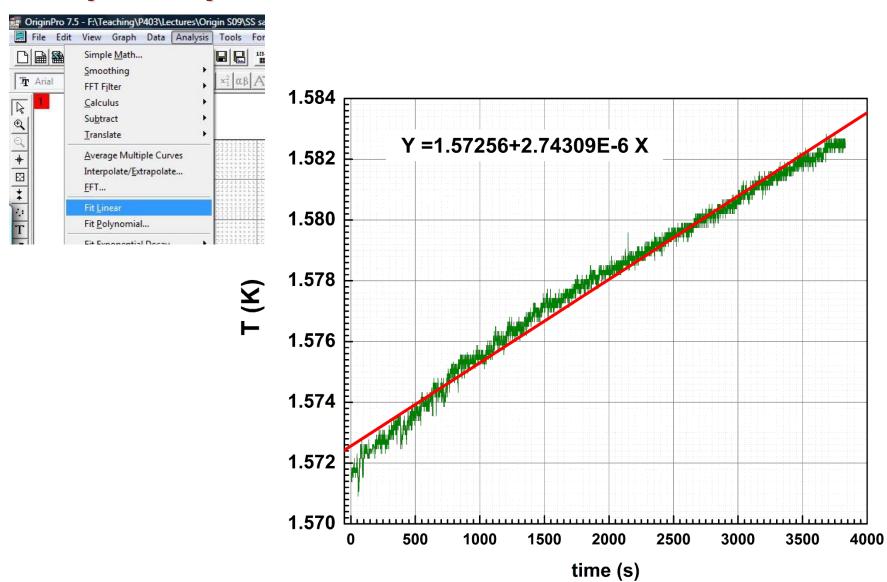
Second sound data



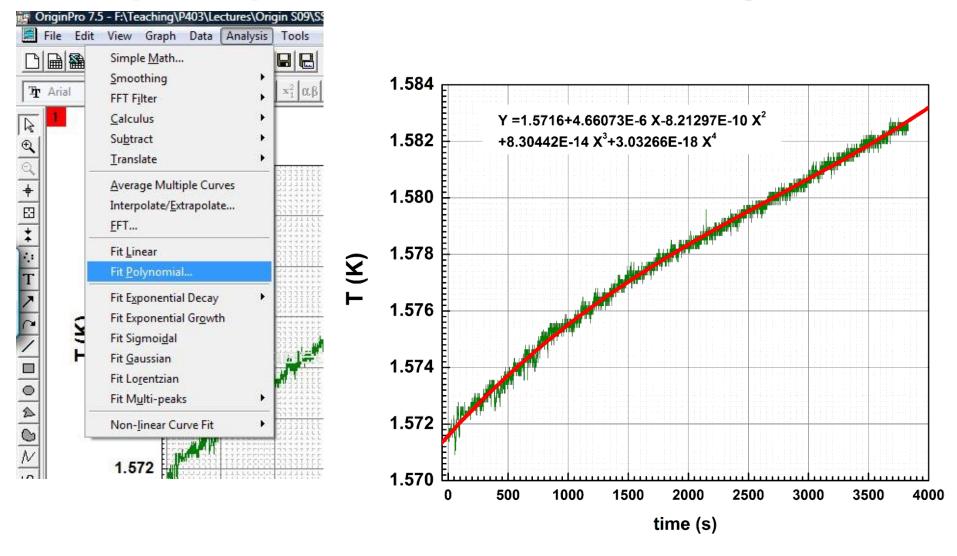
SS sample: Graph25

f (Hz)

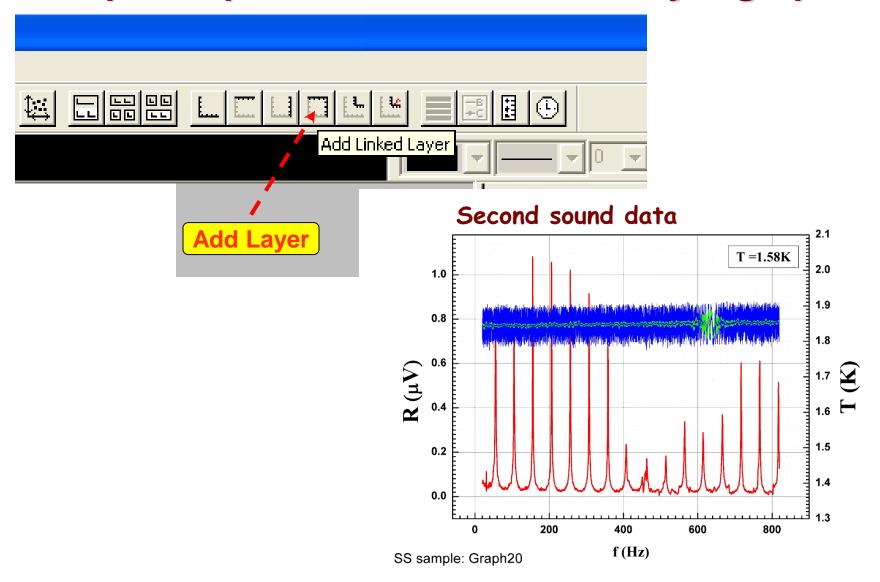
Graphical presentation of data: Fit Linear



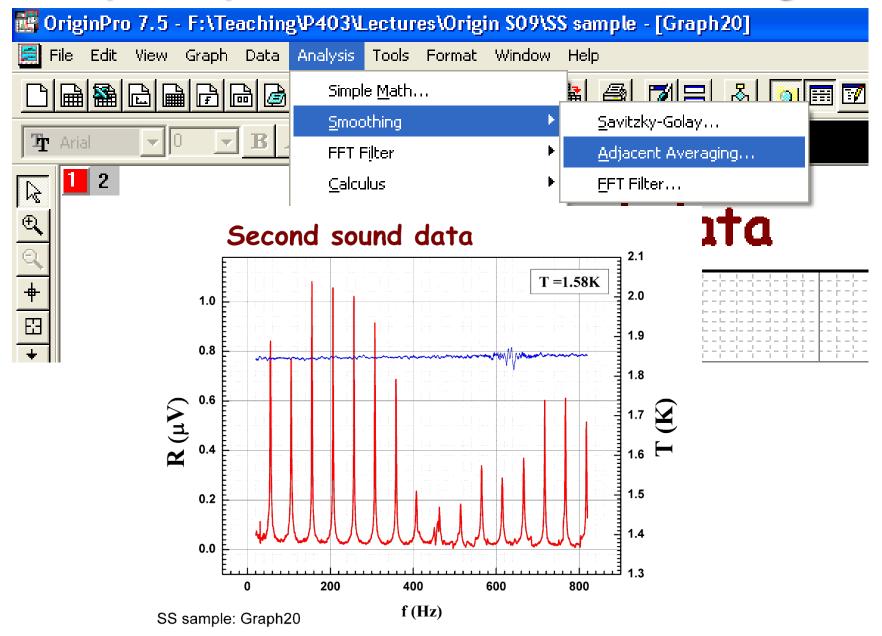
Graphical presentation of data: Fit Polynomial



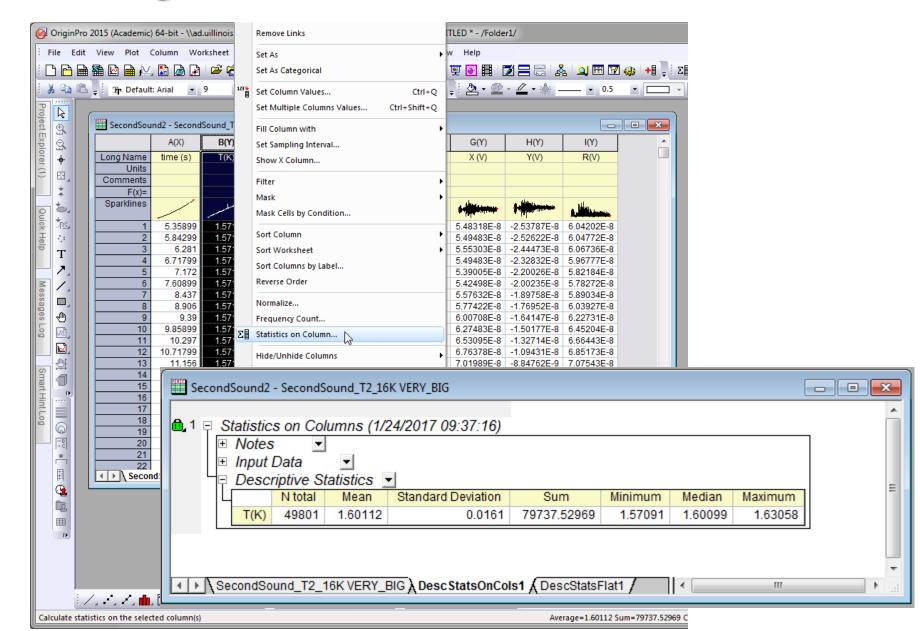
Graphical presentation of data: 2-layer graph



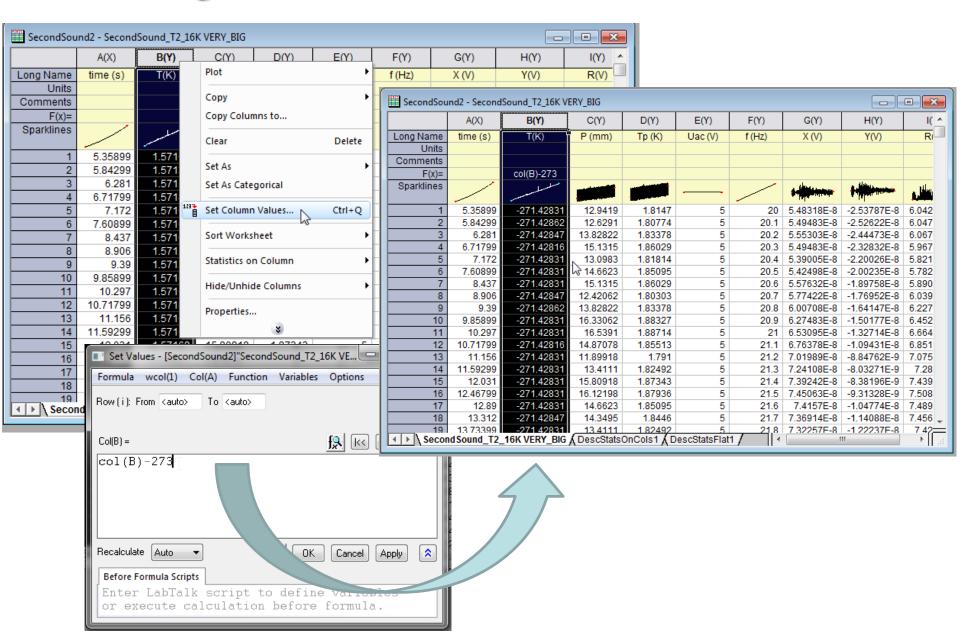
Graphical presentation of data: Smoothing



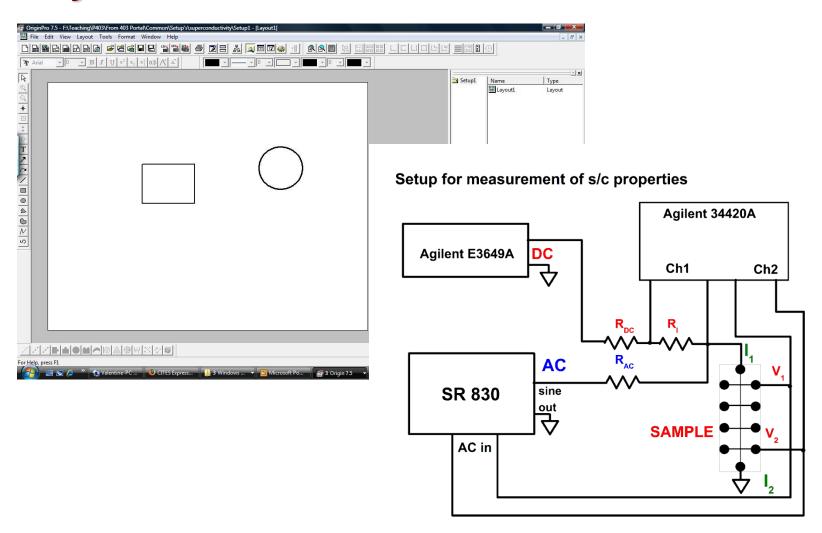
Working with data: Worksheets



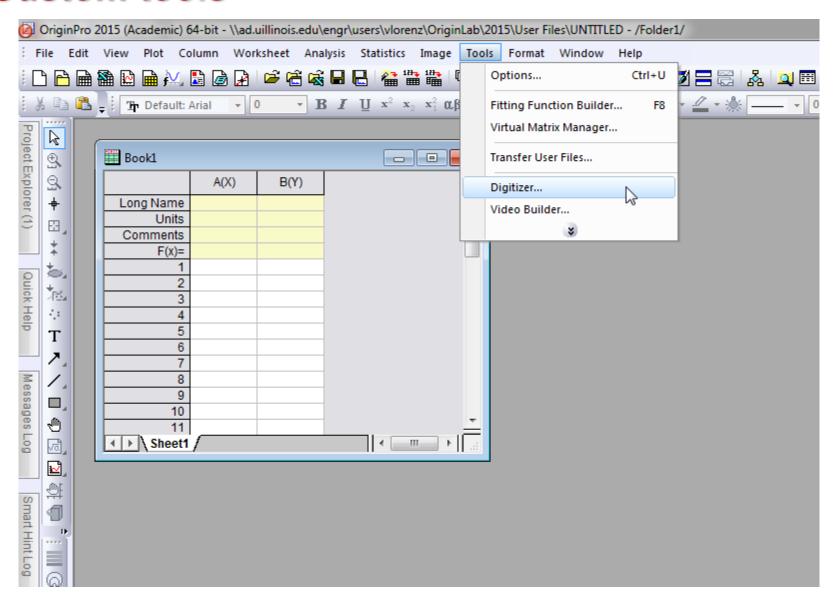
Working with data: Worksheets



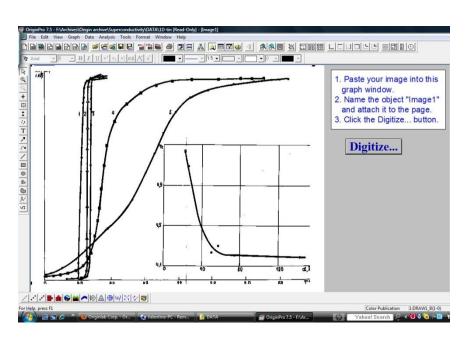
Layouts

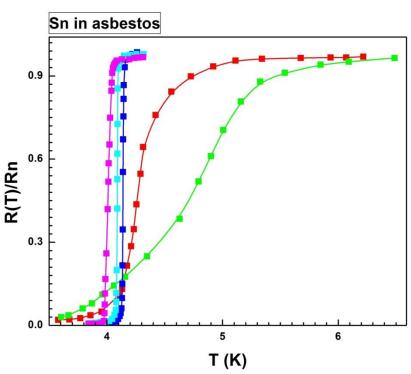


Custom tools



Using digitizer script







Origin at UIUC Webstore and OriginLab site.



https://webstore.illinois.edu

www.originlab.com





Origin manuals



Working with Origin 8.6.

Step1. Importing data



A very short and simple manual covering only the main operations with Origin, and manuals from Origin are on the server (\Phyaplportal\PHYCS403\Common\Origin manuals).

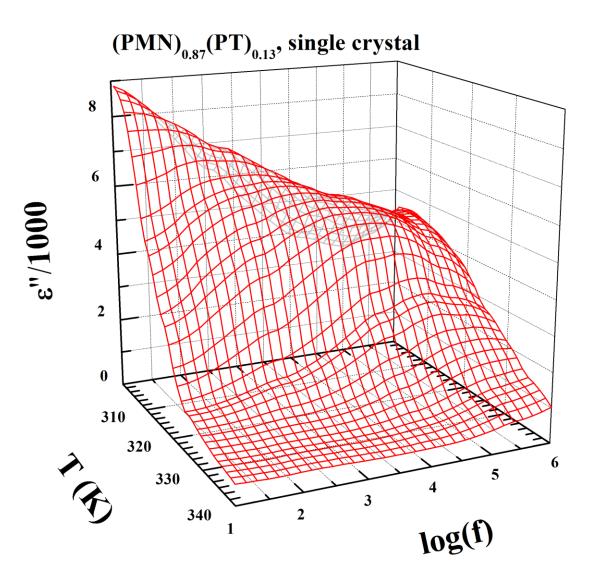
Do not forget about Origin Help

Video Tutorials on the company website

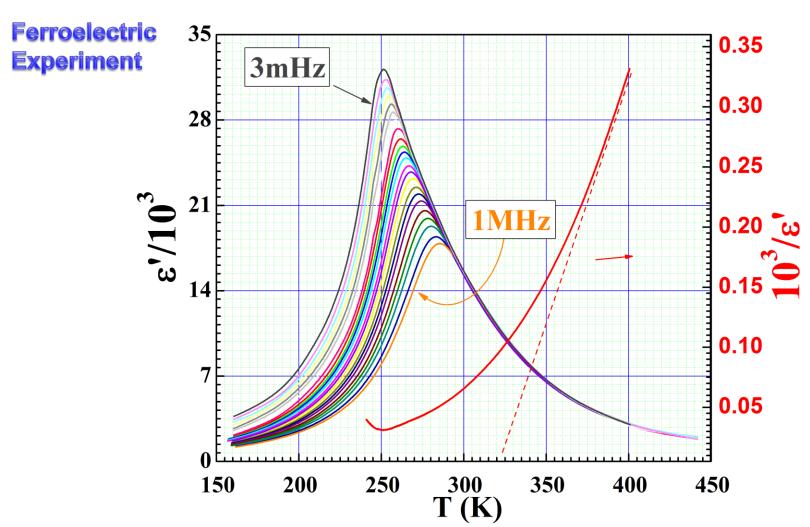


http://www.originlab.com/index.aspx?go=SUPPORT/VideoTutorials



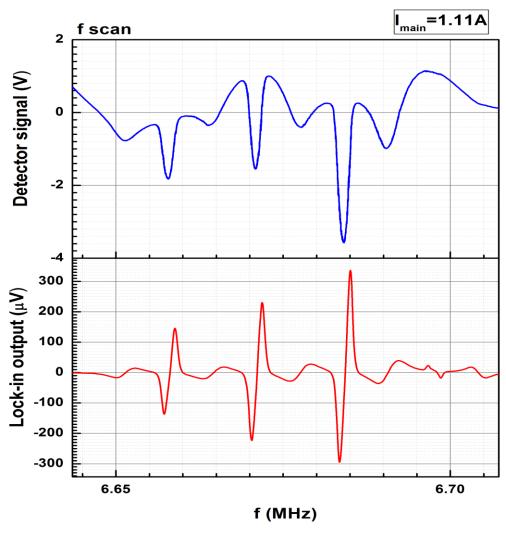


Ferroelectric Experiment





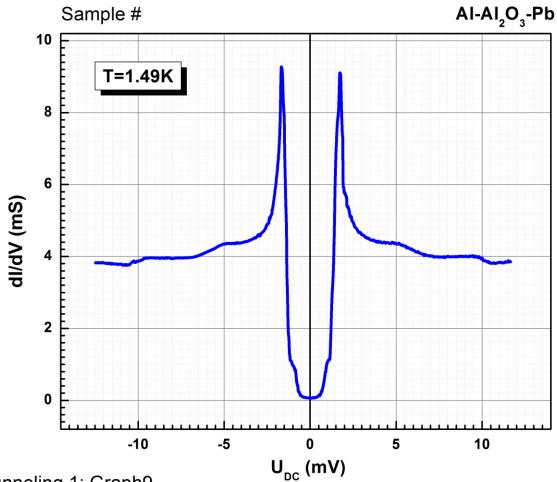
Optical pumping



Mapping 0.5-2.5A from March 1st 2012: Graph7





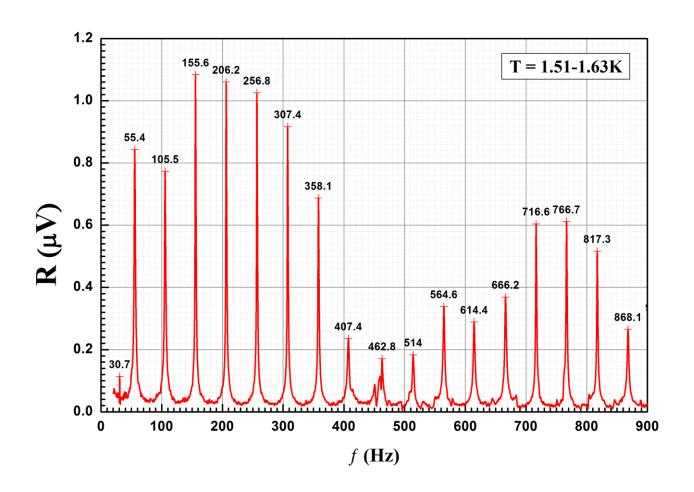


Tunneling 1: Graph9

Sample n2 run8 zoom temp 1.55K



Second sound





Magnet mapping

