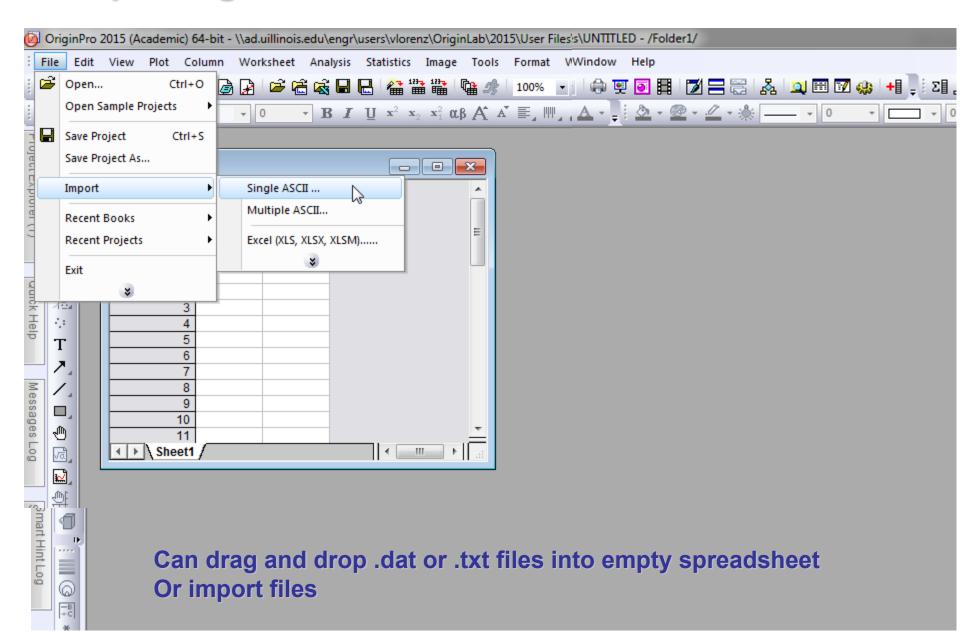


Origin Lab Scientific Graphing and Analysis Software

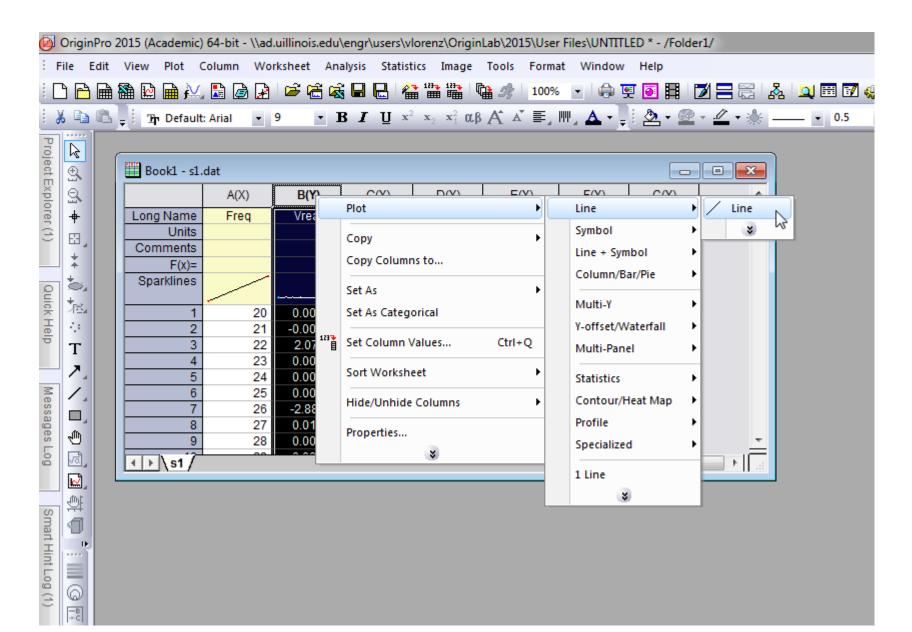
Origin is on all Physics 403 computers. What it can do:

- 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

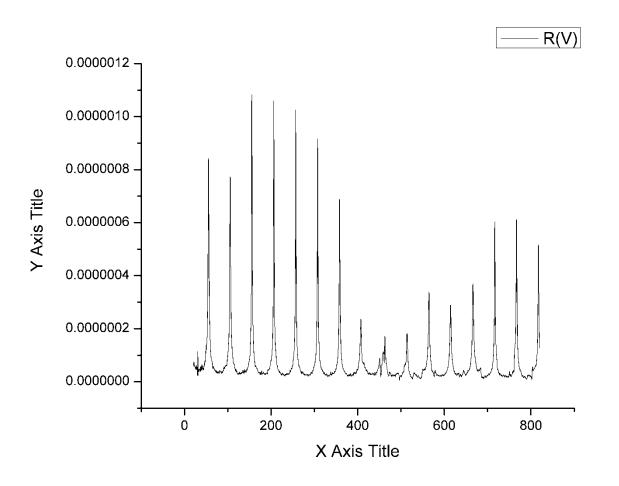
Importing data



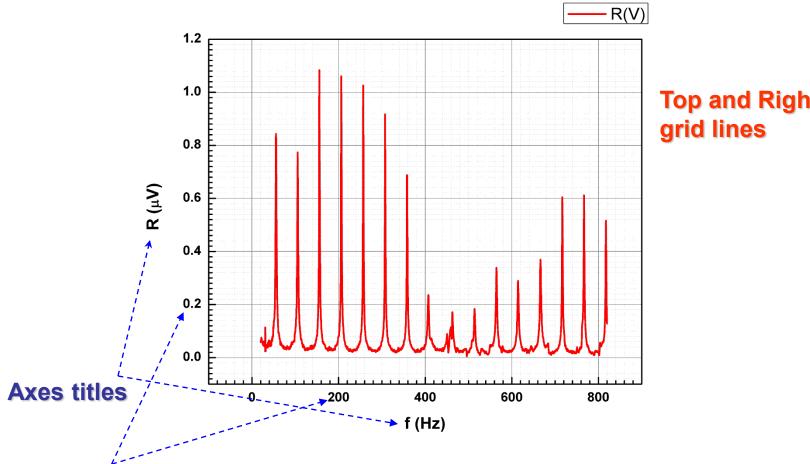
Graphical presentation of data: Basic Plot



Graphical presentation of data: Basic Plot



Graphical presentation of data: Basic Plot

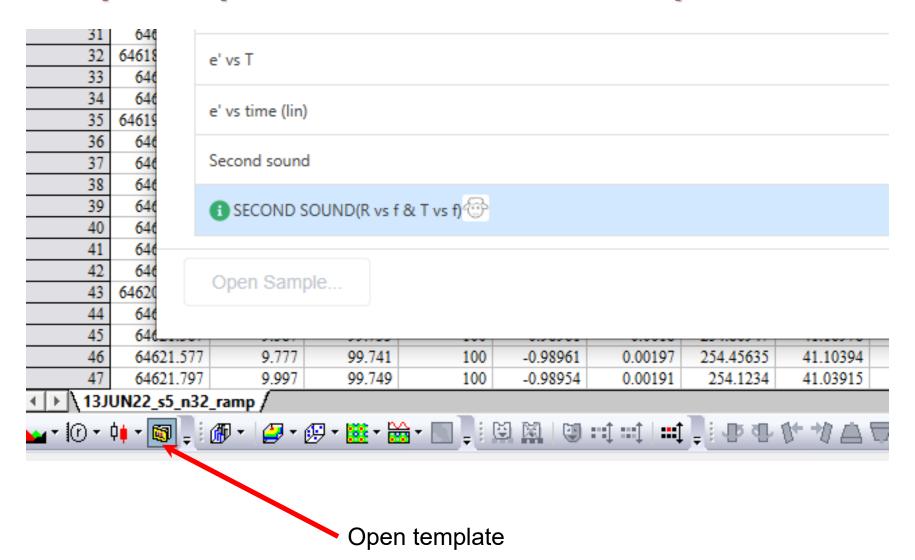


Top and Right axes,

Bold tick labels.

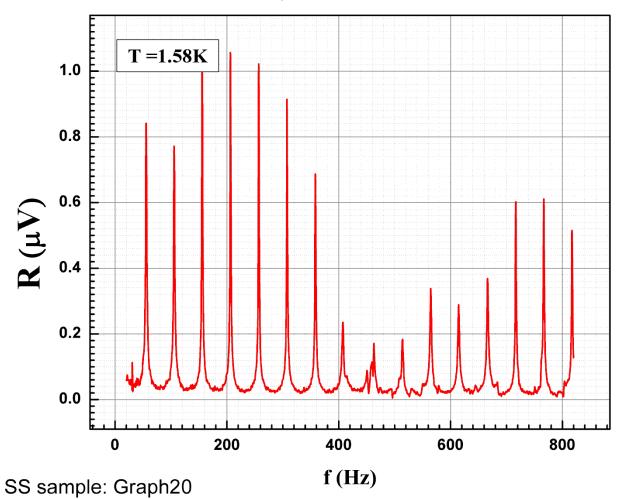
For a better-looking graph, volts were converted to μV

Graphical presentation of data: Templates



Graphical presentation of data: Templates

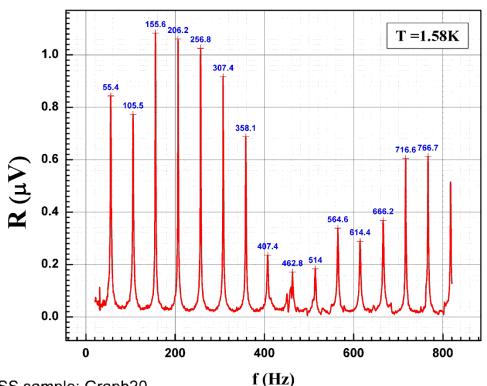
Second sound data



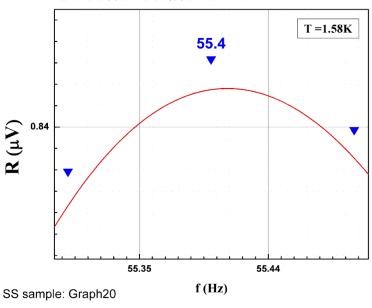
Graphical presentation of data: Fitting, etc.



Second sound data

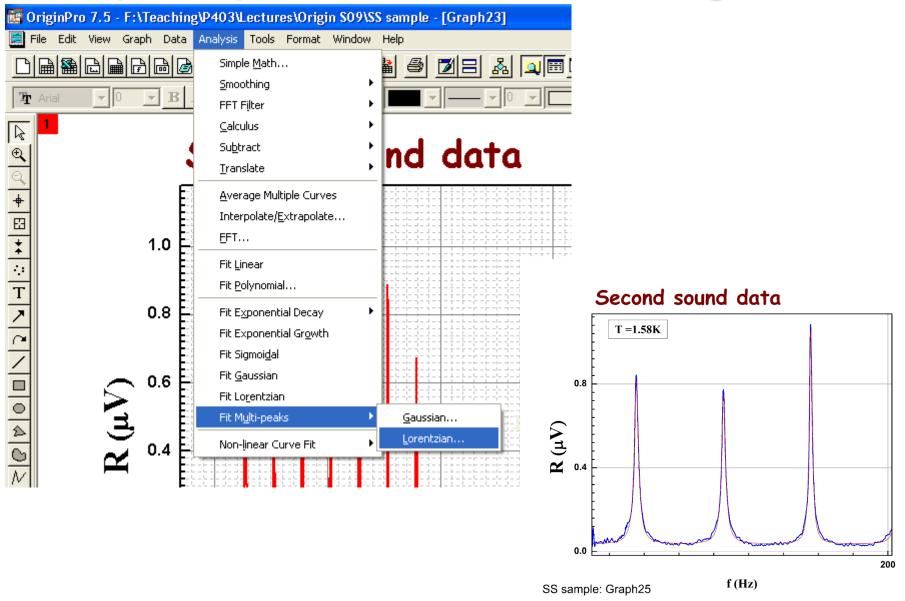


Second sound data



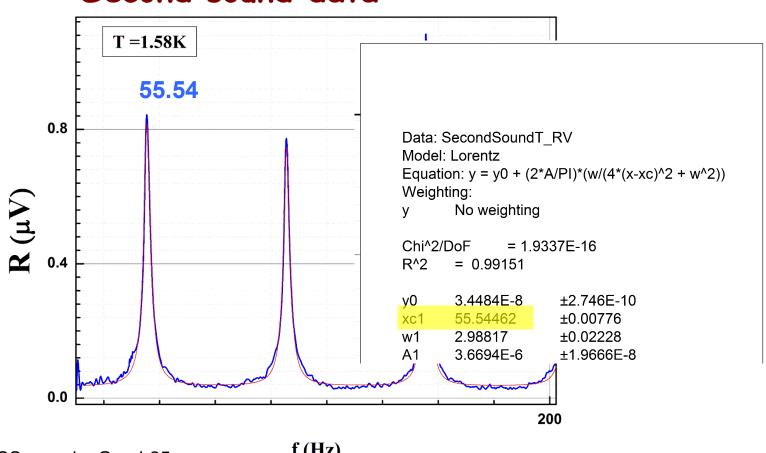
SS sample: Graph20

Graphical presentation of data: Fitting, etc.



Graphical presentation of data: Fitting, etc.

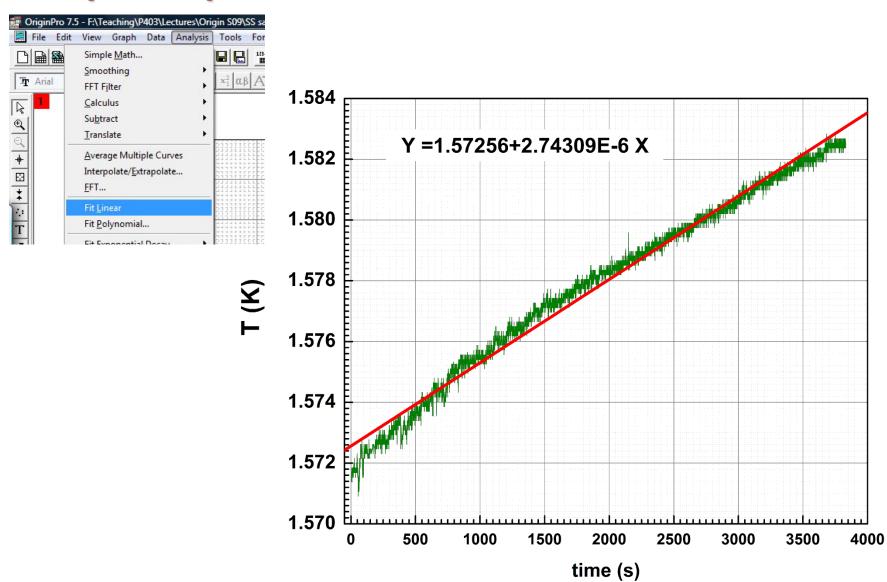
Second sound data



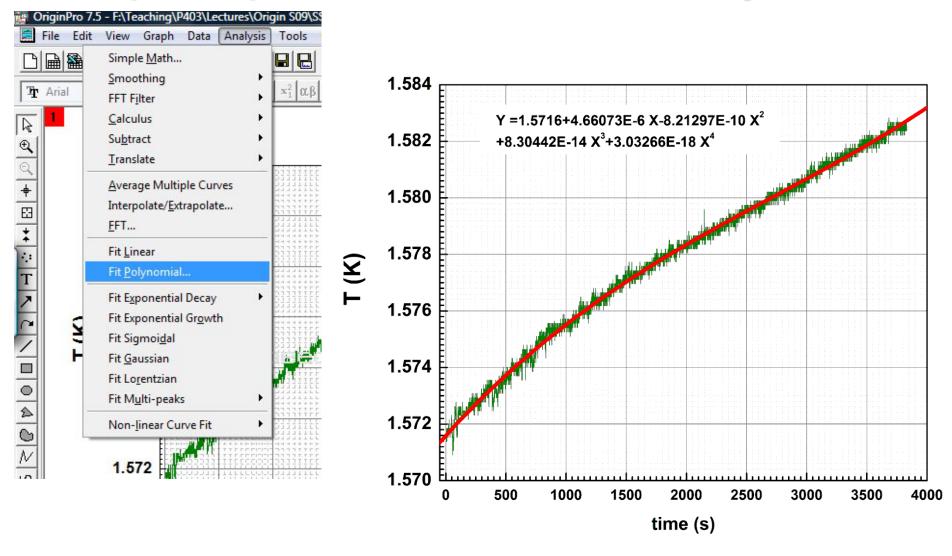
SS sample: Graph25

f (Hz)

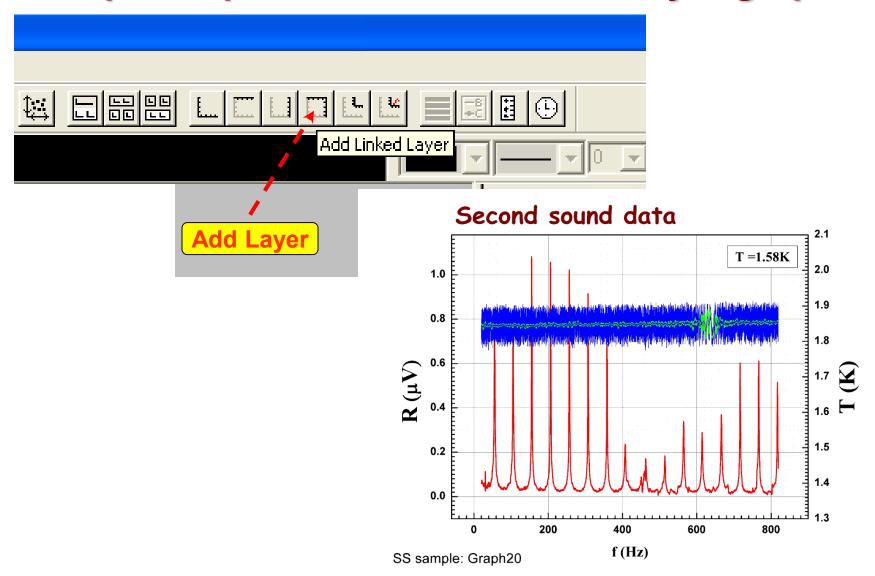
Graphical presentation of data: Fit Linear



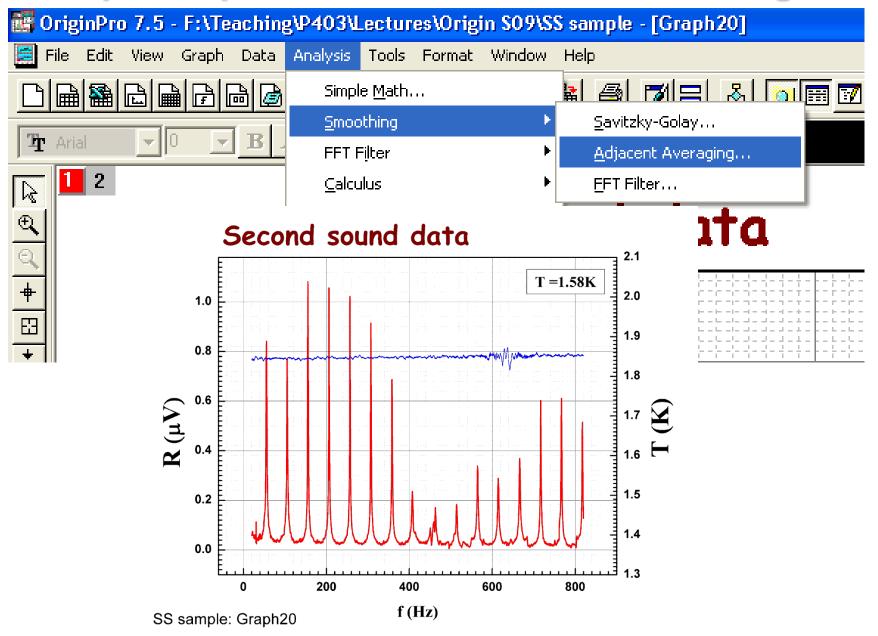
Graphical presentation of data: Fit Polynomial



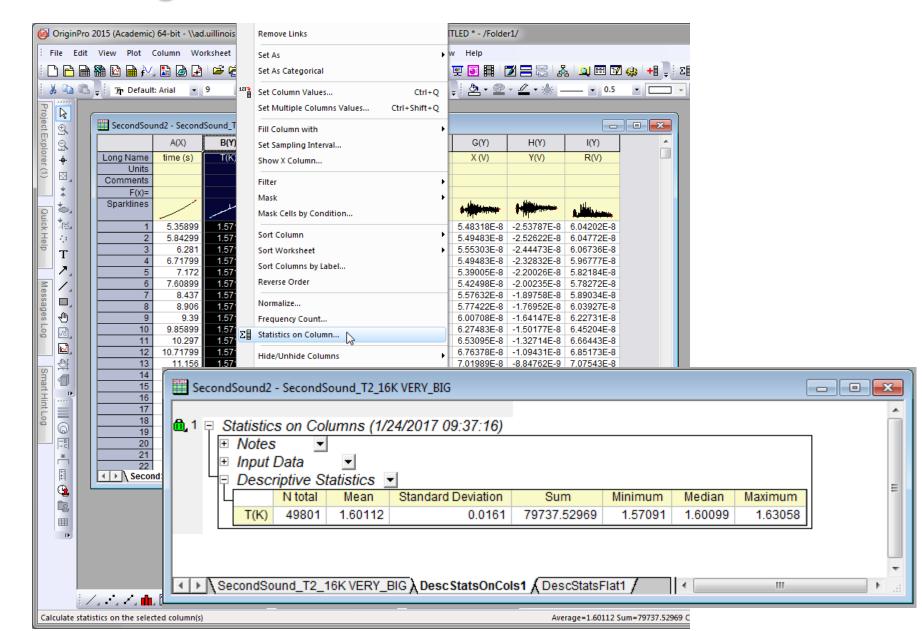
Graphical presentation of data: 2-layer graph



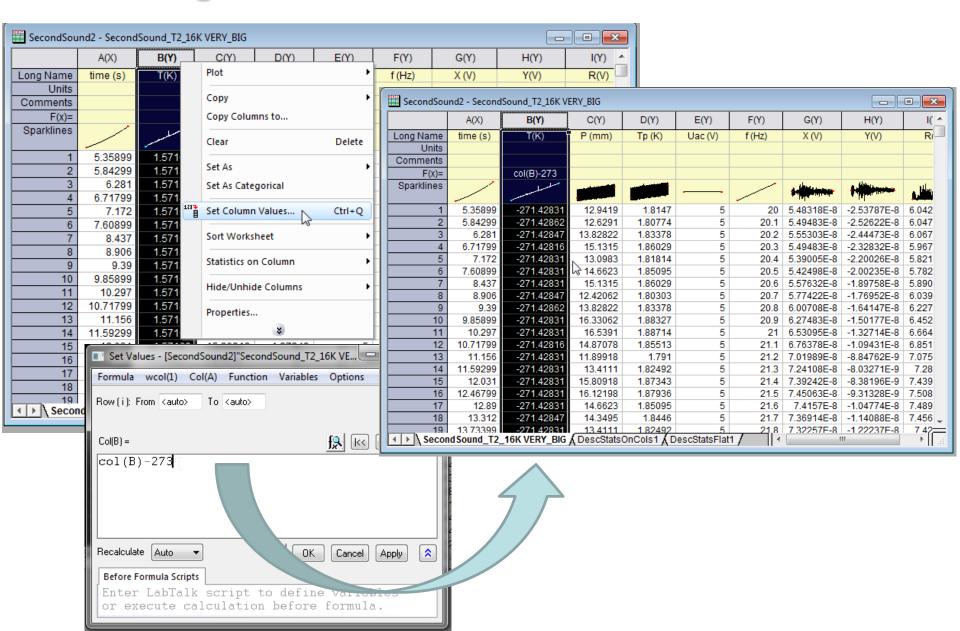
Graphical presentation of data: Smoothing



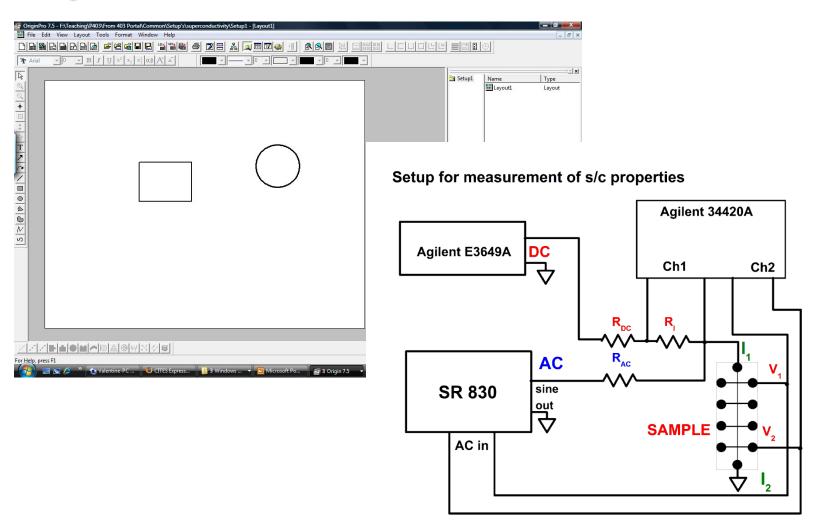
Working with data: Worksheets



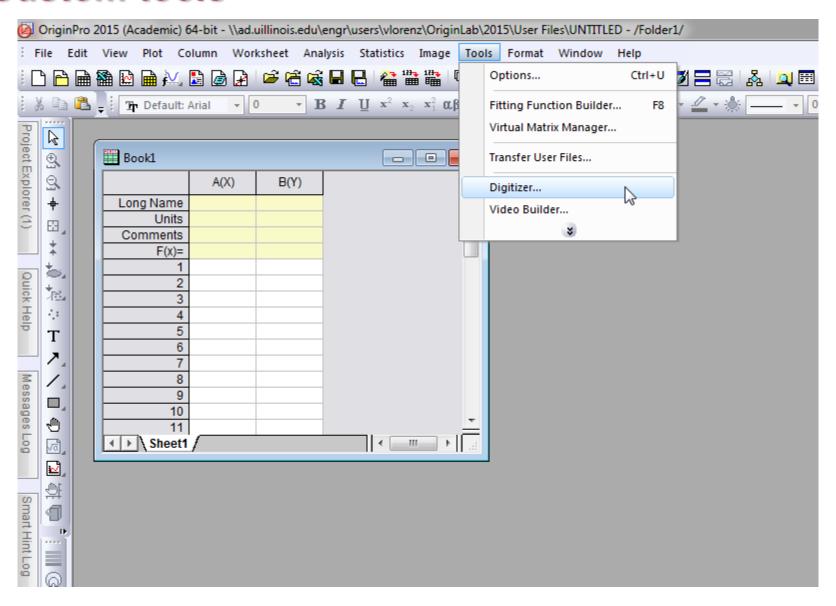
Working with data: Worksheets



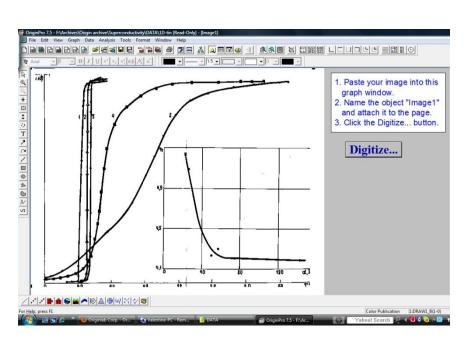
Layouts

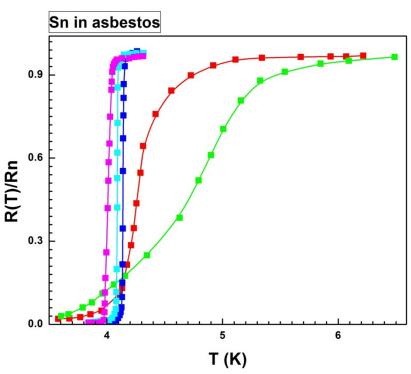


Custom tools

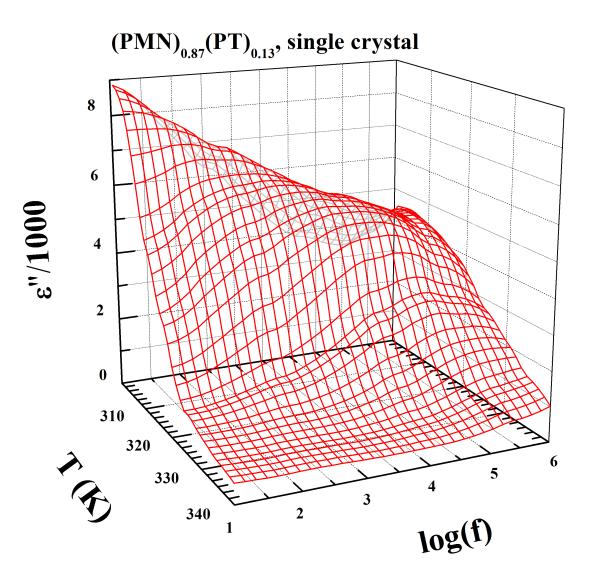


Using digitizer script

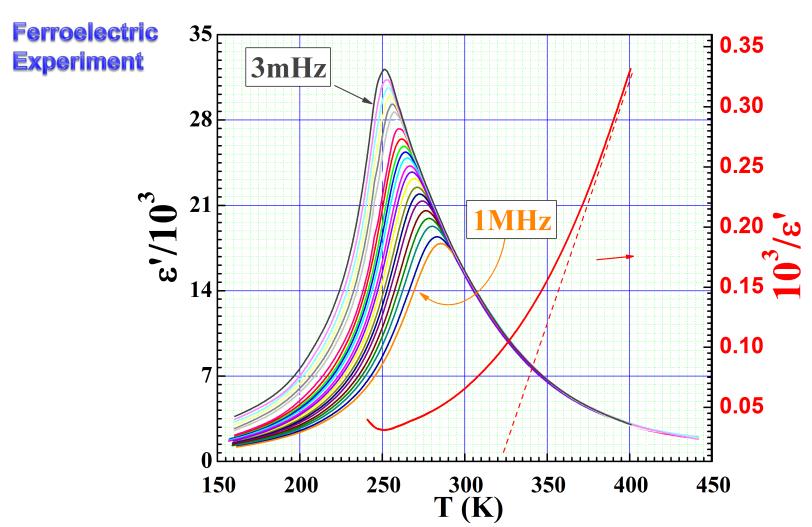






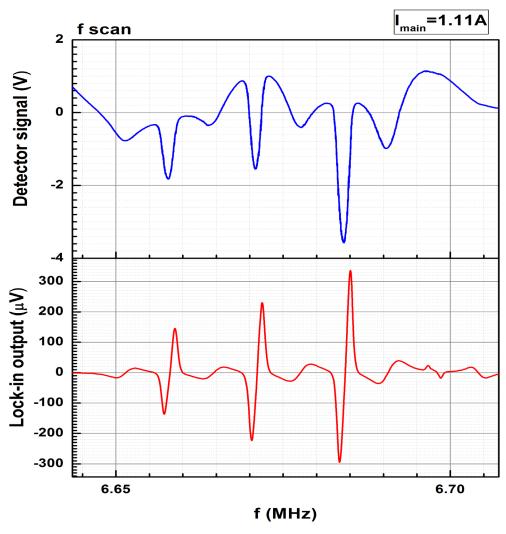


Ferroelectric Experiment





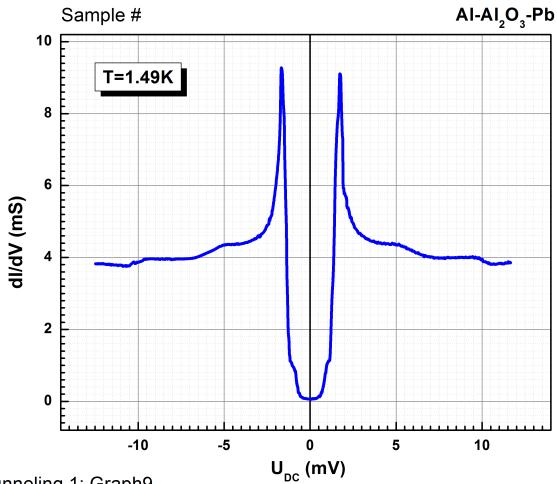
Optical pumping



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





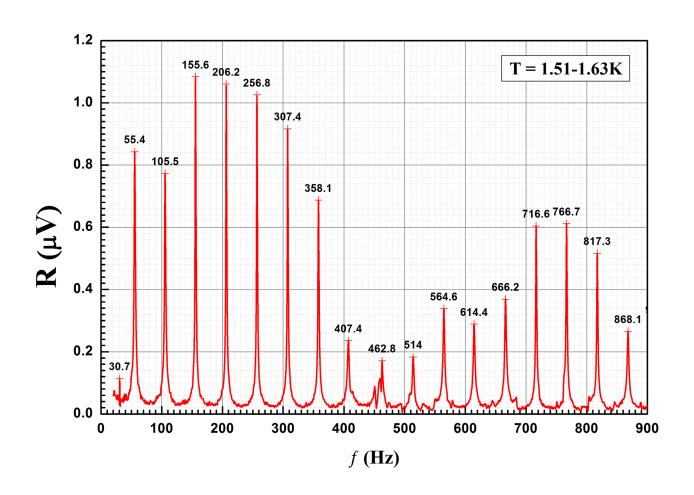


Tunneling 1: Graph9

Sample n2 run8 zoom temp 1.55K

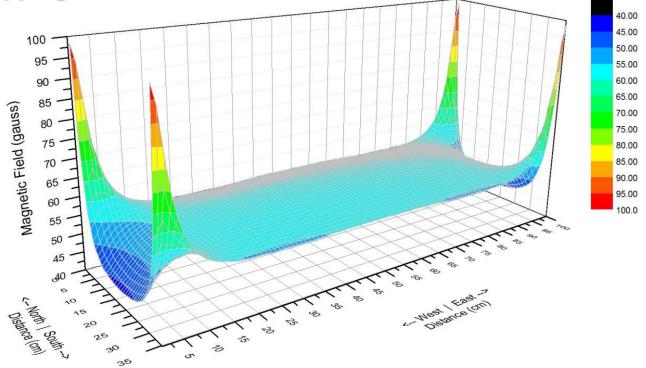


Second sound





Magnet mapping





Origin at UIUC Webstore and OriginLab





Running Origin remotely

Here is another way to run Origin without needing to install it on your own computer (e.g. if you have a Mac, which is not supported by Origin):

- 1. Connect to VPN
- 2. Install and run Citrix: http://it.engineering.illinois.edu/ews/lab-information/remote-connections/connecting-citrix
- 3. Click on "Apps" and then "Origin"
- 4. To open and save files, use your EWS folder at this address: "smb://ad.uillinois.edu/engr-ews/[Your netID]"



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

