

# DEVELOPMENT OF SOFTWARE IN *LabVIEW* FOR MEASUREMENT OF TRANSPORT PROPERTIES OF HIGH $T_c$ SUPERCONDUCTORS

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*CSIRO Applied Physics, Sydney 2070*

The gathering of data and their analysis are vital processes in experiments. We have used LabVIEW (National Instruments) to develop programs to measure transport properties of high -  $T_c$  superconductors, eg. resistivity, ac susceptibility, I-V characteristics. Our systems make use of GPIB (IEEE - 488.2) programmable instruments and a personal computer.

LabVIEW is a graphical programming system for instrument control and data acquisition, data analysis and presentation. A key feature of LabVIEW is the ability to graphically assemble software modules or virtual instruments (VIs) and 'wire' them together.

In this paper we describe the development of several programs and will offer advice to colleagues wanting to explore LabVIEW.