

## Infrared reflectometry



Setup Infrared Reflectometry

Infrared response of small, irregular samples can be measured by robust normal incidence reflectivity technique with in-situ gold coating. The spectrometer is based on the Michelson-type interferometer and covers the range from 5 to 10000  $\text{cm}^{-1}$  (provided with FIR and MIR sources). The sample compartment was reorganized with elliptical and flat mirrors to form the beam path to the sample placed in the cryostat for temperature dependent measurements.

The experimental setup consists of 3 major parts:

- Fast-Fourier transform spectrometer (Bruker 70v)
- Reflection unit with a low temperature cryostat
- External detector – helium cooled bolometer

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