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【162】 Terahertz and infrared magneto-ellipsometer

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We will present a new magneto-ellipsometric instrument built at the Physics Department, University of Fribourg. It is based on combination of time-domain terahertz and Fourier-transform infrared spectrometers, equipped with He-flow cryostat and split-coil 7 Tesla magnet.

Apart from standard transmission geometry, the instrument is designed for reflection ellipsometry measurements at angles of incidence 75° and 80° , with field parallel or perpendicular to the sample surface. The operation can be switched between the THz and IR branch in-situ, and both beam paths are in vacuum.

With this instrument, we aim at studies of magneto-optical response of strain engineered thin/ultrathin films of strongly correlated oxides.

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