PS-14-14 Poster Session

## **MGML - Materials Growth & Measurement Laboratory**

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Materials Growth and Measurement Laboratory (MGML) is the open research infrastructure in Prague, Czech Republic. MGML offers an open access for external users to the instrument suite dedicated to preparation, characterization and measurement of physical properties of materials. The MGML technology facilities are enabling controlled synthesis of high-quality samples (single crystals and polycrystals) of various types of materials, detailed phase and structural characterization using a unique suite of X-ray diffractometers and measurements of a rich spectrum of physical properties of materials in a wide range of temperatures, magnetic and electrical fields, and hydrostatic uniaxial pressures.

MGML provides to its users advanced structural analysis in a wide tempreature range, focused on studies of single-crystals, bulk, polycrystalline, nanocrystalline, amorphous and organometallic materials, as well as on the investigation low-dimensional system as thin polycrystalline and epitaxial layers, multilayers, quantum dots, wires and tubes.

Researchers interested in using the MGML instrumentation are invited to submit experimental proposals via the User Portal on mgml.eu. The discussion with local contact(s) is recommended prior to submission. The proposals will be evaluated by the MGML Panel.

Keywords: X-ray diffraction, user facility, crystal growth