MM 16: Invited Talk (Hauptvortrag): Takeuchi

Time: Tuesday 9:30-10:00

tric materials, and superconductors. We map the structural properties across libraries and quickly cross-reference them with known phases in crystallographic databases. The need for such a study is common among combinatorial investigation of virtually all topics. Automated scanning X-ray diffraction across entire libraries is carried out at a synchrotron beamline as well as with in-house diffractomerers. Machine learning algorithms are used for materials property prediction and materials classification. The algorithms also provide a means for determining latent variables - primary predictors of material structure and properties that might otherwise be buried in the large datasets. Combinatorial investigation guided by theories will also be discussed.

Location: H24