Outline

Magnetic field setups
- DC electromagnet environment
- Pulsed high magnetic field environment

General sample characterization
- Electron/Ion microscopy user labs
DC electromagnet environment for Day-1
Pulsed high magnetic field environment

Planned for 2018
- Coil cryostat
- He-flow cryostat
- XYZ-θ manipulation
- Loadlock
- Transfer rod

15 T
4-300 K
Coil cryostat / sample sticks

Coil cryostat (LN$_2$) and sample cryostat (LHe)

Flexible detector positions

Sample loadlock
Magnetic pulse and X-ray bunch train

Example: Nuclear Forward Scattering at Petra III, Nov 2016

C. Strohm, P. Linden et al. PRB 88, 060408 (2013)
Sample pre- and post-characterization

Sample imaging, analysis (EDS, EBSD) and modification (electron lithography).

Coffee break: Let us know what typical samples you need characterized!
Summary

- **FSSS setup: 0.5 T constant field** (Day-1)
- **Pulsed high-field setup: 15T / 4–300K** (2018)
- **Electron/Ion microscope labs** (2017–2018)

**Coffee break:** Let us know what typical samples you need characterized!