



Contribution ID: 69

Type: **Invited talk (30 min + 5 min discussion)**

## **Neutron scattering under high pressure to 10 GPa and beyond: A brief survey of methods, constraints and science examples**

*Thursday, 8 December 2022 13:05 (35 minutes)*

Pressure is next to temperature the key thermodynamic parameter for the exploration of condensed matter. In this talk I will survey the state of the art of high pressure neutron scattering, covering both diffraction and inelastic scattering. I will focus on more recent methods able to reach pressures of 10 GPa and beyond, relevant for research on hard condensed matter. My talk will be largely technical, with an emphasis on the various constraints, and I will give recommendations for potential applications at MLZ.

S. Klotz, Techniques in High Pressure Neutron Scattering, CRC Press –Taylor and Francis, 2013

**Primary author:** KLOTZ, Stefan (IMPMC, Sorbonne Université)

**Presenter:** KLOTZ, Stefan (IMPMC, Sorbonne Université)

**Session Classification:** Quantum Phenomena

**Track Classification:** Quantum Phenomena