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## Fundamental Physics with neutrons and muons

*Thursday, 6 September 2018 11:30 (30 minutes)*

Precision experiments with high intensities of particles determine input parameters needed to describe the known interactions. They are also uniquely sensitive to physics beyond the highly successful Standard Model of particle physics, both, to very high and to very light new particles likely out of reach for direct production experiments. Last but not least they present the most sensitive tests of fundamental symmetries, such as parity, time reversal and matter-antimatter, CP, symmetry. Recent examples from experiments using the high intensity beams of muons and ultracold neutrons at the High Intensity Proton Accelerator HIPA at PSI will be presented.

**Presenter:** Prof. KIRCH, Klaus (ETHZ & PSI)

**Session Classification:** Plenary