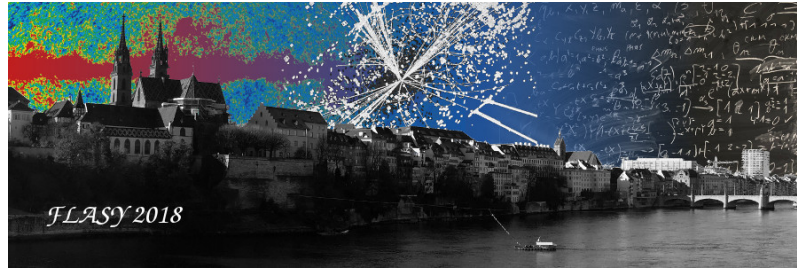


FLASY 2018: 7th Workshop on Flavour Symmetries and Consequences in Accelerators and Cosmology



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Neutrinoless Double Beta Decay and BSM Physics

Wednesday 4 July 2018 10:00 (30 minutes)

Neutrinoless double beta ($0\nu\beta\beta$) decay is the most powerful tool to probe not only for Majorana neutrino masses but for lepton number violating physics in general. I will discuss the connections between lepton number violation, double beta decay and neutrino mass, highlighting recent experimental and theoretical efforts. Extending the standard picture of light neutrino exchange, I will review a general Lorentz invariant parametrization of the $0\nu\beta\beta$ decay rate and the resulting constraints on new physics models. Finally, I will discuss the relation between $0\nu\beta\beta$ decay and models of baryogenesis.

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Session Classification: Morning Session I