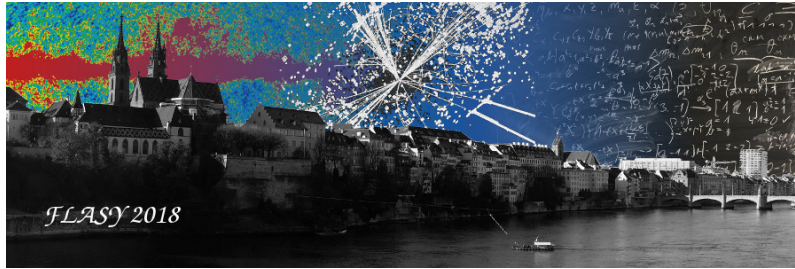


# FLASY 2018: 7th Workshop on Flavour Symmetries and Consequences in Accelerators and Cosmology



Contribution ID: 52

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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.

**Author:** Dr DEPPISCH, Frank (University College London)

**Presenter:** Dr DEPPISCH, Frank (University College London)

**Session Classification:** Morning Session I