Contribution ID: **22** Type: **not specified**

Are neutrino masses modular forms?

Thursday 5 July 2018 09:00 (30 minutes)

The hope of relating fermion masses and mixing angles to
some fundamental underlying principle, has fostered an intense activity
aimed at identifying possible symmetry patterns in the data.
Neutrino masses and lepton mixing angles have played an important
role in such attempts. In this talk I will illustrate a new class of models where
the role of flavour symmetry is played by the modular invariance.
Modular invariance is ubiquitous in string theory and in condense matter
systems. I will explain how it can be exploited to constrain neutrino masses
and mixing angles and I will illustrate its remarkable and unique properties
in this context.

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Session Classification: Morning Session I