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Geometrically realised spectral triples and dynamical mass

Friday 30 September 2022 09:00 (1 hour)

We apply the geometric realisation programme for spectral triples within quantum Riemannian geometry (QRG) to the algebra of 2x2 matrices with a Lorentzian metric to find an Sˆ1 moduli of almost spectral triples where the Dirac operator is not hermitian but has natural hermitian and antihermitian parts (based on joint work with E. Lira-Torres). I will also explain how Kaluza Klein ideas look in QRG and lead to multiplets of fields on spacetime with a distribution of dynamically generated masses (based on joint work with J. Argota-Quiroz).

Presenter: MAJID, Shahn

Session Classification: 30-morning