Noncommutative geometry: metric and spectral aspects



Contribution ID: 5

Type: not specified

Curvature for modules over spectral triples

Wednesday 28 September 2022 15:30 (1 hour)

In this talk we introduce the curvature of densely defined universal connections on Hilbert C*-modules relative to a spectral triple, obtaining a well-defined curvature operator. Algebraically, this curvature can be interpeted as the defect of the unbounded Kasparov product to commute with the operation of taking squares. The definition recovers the represented curvature of finitely generated projective modules as well as all the curvature data of a Riemannian submersion of compact manifolds, viewed as a KK-factorization.

Presenter: MESLAND, Bram Session Classification: 28-afternoon