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Sequences of Noncommutative Gauge Field Theories on AF-algebras

Friday 30 September 2022 11:00 (1 hour)

With Gaston Nieuviarts we have built and started to study a new framework to define sequences of Noncommutative Gauge Field Theories (NCGFT) on top of the defining sequence of an AF algebra. The main objective of this construction is to manage the way these NCGFT are related to each other along the sequence. A notion of "compatibility"is then necessary to handle this problem. In my talk, I will focus on the motivations for this work and on the formal aspects. Then I will illustrate some physical applications using derivation-based NCGFT. In his talk, Gaston Nieuviarts will focus on this construction for spectral triples.

Presenter: MASSON, Thierry

Session Classification: 30-morning