

DISCRETE 2014: Fourth Symposium on Prospects in the Physics of Discrete Symmetries



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Particle Physics and Cosmology from Almost-Commutative Manifolds

Saturday 6 December 2014 09:50 (45 minutes)

I will review almost-commutative manifolds, a light version of noncommutative geometry, proposed by Connes in order to explain the Standard Model of electroweak and strong interactions and eventually unify the Standard Model with Einstein's geometrical theory of gravity. I will briefly discuss the spectral action principle and the choice of the algebra. After a short presentation of the phenomenological successes of the model, I will address cosmological issues by considering the gravitational sector of the theory.

Author: Prof. SAKELLARIADOU, Mairi (King's College London)

Presenter: Prof. SAKELLARIADOU, Mairi (King's College London)

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