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Seminar of the theory group of APC

Mardi 10 Mai 2016, 14 :00
APC, 483A Malevitch
Domaines : hep-th

Titre : *Constraining Axion Inflation with Gravitational Instantons*

Orateur : **Lukas Witkowski (Heidelberg University)**

Résumé : *A generic model of axion inflation can be described by an effective theory of an axion field coupled to gravity and possibly further (moduli) fields. Such Einstein-axion-moduli theories admit Euclidean solutions with finite action termed Gravitational Instantons. It is expected that Gravitational Instantons give rise to higher harmonics in the axion potential which can be dangerous for models of large-field inflation. In this talk I will assess to what extent Gravitational Instantons can constrain or rule out axion models of large-field inflation.*