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Quantum scale invariance, hierarchy generation and inflation

Wednesday 3 July 2019 09:30 (45 minutes)

Global and local Weyl invariant theories can solve the hierarchy problem and generate all mass scales spontaneously, initiated by a dynamical process of "inertial spontaneous symmetry breaking" that does not involve a potential. I will discuss how inflation readily occurs in a scale invariant version of Starobinsky (R2) inflation and how an hierarchy of mass scales may be generated, stable against both Standard Model and gravitational quantum corrections.

Presenter: Prof. ROSS, Graham (Oxford University)

Session Classification: Beyond III