A Graceful Exit for the Cosmological Constant Damping Scenario

Kevin Nguyen
Vrije Universiteit Brussel
Belgium

I will present a simple and generic class of scalar-tensor theories that successfully realize dynamical damping of the effective cosmological constant, therefore providing a mechanism for solving the fine-tuning cosmological constant problem. In this approach, the original fine-tuning is traded for a hierarchy of couplings that satisfies the notion of technical naturalness introduced by 't Hooft.