2018 CAP Congress / Congrès de l'ACP 2018



Contribution ID: 2174 Type: Oral Competition (Graduate Student) / Compétition orale (Étudiant(e) du 2e ou 3e cycle)

Is there a cosmological constant problem? (G)*

Tuesday 12 June 2018 14:45 (15 minutes)

The cosmological constant problem is described as one of the greatest crises of modern physics. The conventional problem is posed in the framework of quantum fields on a fixed background and their semiclassical backreaction on gravity. In this talk, expanding on a recent proposal, I will argue that this problem does not arise in a fully non-perturbative gravity-matter framework. I will show how vacuum energy density depends on a choice of global time and physical Hamiltonian, and how it varies from one choice to another.

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Session Classification: T3-4 Gravity and Cosmology (DTP/DHP) | Gravité et cosmologie (DPT/DHP)

Track Classification: Theoretical Physics / Physique théorique (DTP-DPT)