



Contribution ID: 50

Type: **Invited Speaker / Conférencier invité**

An overview of Loop Quantum Gravity

Monday 16 June 2014 13:45 (30 minutes)

The definition of a quantum theory for gravity is a long standing problem. Currently, different approaches exist. In this talk, I will present the main ideas behind Loop Quantum Gravity and the Spinfoam frameworks. These are attempts to quantize directly General Relativity using respectively Dirac's canonical quantization and Feynman's path integral quantization.

I will give an overview of these dual frameworks, focussing on their successes but also on the difficulties and problems they face.

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Session Classification: (M1-5) Quantum Gravity and Quantum Cosmology - DTP / Gravité quantique et cosmologie quantique - DPT

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