Institut Henri Poincaré

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String Theory in Greater Paris

Rencontres Théoriciennes

“Supergravité, théorie des cordes et théorie M”

Jeudi 21 Novembre 2024, 10:00

Victor Godet

LPTHE

Quantum cosmology as automorphic dynamics

I will explain how some recent progress on the Wheeler-DeWitt equation makes possible the systematic development of quantum cosmology in the canonical formulation. The cosmological wavefunctions are automorphic forms, and the Wheeler-DeWitt equation reduces to a dynamical equation on moduli space, so that quantum cosmology is equivalent to "automorphic dynamics".

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