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Causal Dynamical Triangulations in 4D - the plot thickens

vendredi 12 juin 2015 11:30 (45 minutes)

Causal Dynamical Triangulations (CDT) is a framework for defining a nonperturbative path integral for quantum gravity, based on random geometries with a built-in space-time anisotropy, related to the presence of a local causal (Lorentzian) structure. In four dimensions, several nontrivial results highlight that CDT is a serious contender for THE theory of quantum gravity, including the presence of second-order phase transitions and the demonstration that a renormalization group analysis can be performed despite the absence of a fixed background. I will report on recent results.

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