Integrable Systems in Geometry and Mathematical Physics, Conference in Memory of Boris Dubrovin (online, 28 June to 2 July 2021)



Contribution ID: 31

Type: not specified

## Ricci curvature and quantum geometry

*Friday, July 2, 2021 11:30 AM (40 minutes)* 

We describe a few elementary aspects of the circle of ideas associated with a quantum field theory (QFT) approach to Riemannian Geometry, a theme related to how Riemannian structures are generated out of the spectrum of (random or quantum) fluctuations around a background fiducial geometry. In such a scenario, Ricci curvature with its subtle connections to di ffusion, optimal transport, Wasserestein geometry, and renormalization group features prominently.

Primary author: Prof. CARFORA, Mauro Presenter: Prof. CARFORA, Mauro