



ID de Contribution: 68

Type: Non spécifié

## Subadditive average distances and quantum promptness

*jeudi 17 novembre 2022 17:20 (20 minutes)*

In the presence of important fluctuations in the gravitational field causality can be studied by calculating an “average distance”. I will show that such an average distance is “sub-additive” as opposed to standard geodesic distances of a classical spacetime which are always strictly additive.

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**Classification de Session:** Review and contribution talks