Contribution ID: **339** Type: **Invited talk in a parallel session**

Measuring spatial distances in causal sets via causal overlaps

Friday, 12 July 2024 15:30 (30 minutes)

We introduce a new approach to measuring proper distances between space-like separated events in Minkowski spacetimes of any dimension. Interestingly, this approach allows us to measure distances up to the Planck scale with arbitrary precision. It also enables us to define reference frames and evaluate some kinematic quantities along time-like paths.

Primary author: BOGUÑÁ, Marián (Universitat de Barcelona)

Presenter: BOGUÑÁ, Marián (Universitat de Barcelona)

Session Classification: Causal set theory

Track Classification: Quantum Gravity (QG): Causal set theory