

Invitation

to the seminar of Division of Elementary Particle Physics of the
Institute of Physics of the Czech Academy of Sciences



Justin C. Feng

Institute of Physics
of the Czech Academy of Sciences

Relativistic positioning systems and satellite tracking

Abstract: In this talk, I discuss the framework of relativistic positioning systems for satellite navigation. In particular, I describe past work on the relativistic location problem (i.e., the determination of a user's position from satellite data) in a generic spacetime geometry, in which automatic differentiation is applied to numerically integrated geodesics. I also describe recent progress in applying these methods to the inverse problem of satellite tracking and metric determination.

When: Thursday, June 19, 2025 at **2PM**

Where: Dvořák hall, FZU, Pod Vodárenskou věží 1, Prague

For more information, please see <https://indico.fzu.cz/event/305/>