

# Acceleration and propagation of charged cosmic ray particles - recent progress from Opava

*Tuesday, January 16, 2024 1:40 PM (20 minutes)*

In this short contribution, I will show our recent results in cosmic ray particle physics and the involvement of our research group at the Institute of Physics, Silesian University in Opava, in the CREDO project. I will discuss charged particle acceleration models, focusing on particle dynamics in the combined gravitational and magnetic field around a rotating black hole. Application on PeV cosmic ray source, Sagittarius A\* from our Galaxy center, will be provided.

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**Session Classification:** Interplay of the diverse cosmic rays detectors and standardisation of sharing and processing data