

LIP Seminar

Thursday, 20 of May, 11h30

Opportunities of light ion collisions at the LHC

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In this talk I will attempt to give a perspective on the physics opportunities of oxygen-oxygen and proton-oxygen collisions in the LHC Run 3. The cosmic-ray community argues for a short pO run during Run 3, because this is the unique time-window for LHCf to take data. In the heavy-ion community, the origin of collectivity in small collision systems remains a central question that begs a timely answer. In the talk I will briefly present the constraints from the accelerator. I will then highlight the opportunities on what we can learn about a hydrodynamic quark-gluon plasma (QGP) and about hard probes propagating through such a QGP. I will end with a brief summary on cosmic ray opportunities.

Much of the talk will be based on the workshop OppOrtunities at the LHC (cern.ch/ooatlhc), as summarised in 2103.01939

Location: Videoconference - Zoom https://indico.lip.pt/event/897/

Connection details

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