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Soft probes of collectivity, from hadrons to nuclei

Monday 22 September 2025 14:00 (25 minutes)

Understanding the collective behavior emerging in high-energy collisions is a central goal of contemporary heavy-ion physics. Using recent results from the LHC, this talk will present an experimental overview of how light and strange hadrons, as well as (hyper)nuclei, serve as soft probes of the dynamics and hadronization of the Quark-Gluon Plasma.

The presentation will cover selected experimental signatures across multiple collision systems, ranging from pp to Pb–Pb, and explore how features typically associated with collectivity evolve with system size and multiplicity. Special attention will be given to the role of nuclei and hypernuclei as sensitive tools to probe the late-stage dynamics and the nature of hadron formation.

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Session Classification: Heavy Ion Collisions and QCD Phases

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