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Soft-hard correlations in small systems

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Collisions of small systems like pp and p+A remain one of the least understood scenarios of the heavy ion interactions. Limited ability to control the collisional geometry requires new observables, novel experimental approaches, and more sensitive analysis techniques. Such are available, in particular, by measuring heavy quarkonia states that offer an alternative classification scheme of interactions in small systems and allow us to compare them. A wealth of new measurements of soft-hard correlations in interactions with the heavy quarkonia final states have emerged from the LHC experiments. The results produced by all four LHC detectors show that the quarkonia production rates are modified due to the interaction with soft particles coming from the underlying event.

The talk will review recent experimental results, provide possible theoretical explanations, attempt to assess what other observables can be involved, and trigger the discussion about new experimental approaches to tackle the small system problem.

Category

Experiment

Collaboration

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