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Strangeness production in small systems - from revolution to resolution

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ALICE measurements show that strangeness production increases with multiplicity in small systems (pp and p-Pb collisions) at LHC energies. This means that one has to give up the idea that a proton-proton collision can be seen as an incoherent sum of parton-parton collisions; an idea that has been central in most proton-proton generators, for example PYTHIA. To accommodate the ALICE results, models have to introduce significant final state effects and the question is now which ones are correct.

In this talk, I will first cover the general results and give examples of models/mechanisms with final state interactions. I will then show recent more differential results using event shapes, underlying event estimators and correlations and discuss how these measurements can resolve the question of the underlying physics mechanism.

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