

ALICE Physics — Theoretical Overview*

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Abstract

ALICE is the dedicated heavy ion experiment at the LHC. This note summarizes theoretical developments in the field of hot and dense matter and their relevance for observables accessible to ALICE in nucleus-nucleus, proton-nucleus and proton-proton collisions. In addition, aspects of specific interest for proton-proton, proton-nucleus, ultraperipheral collisions and cosmic ray physics, which can be addressed by ALICE, are also discussed.

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