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Multi-strange hadron production in Run 3 pp collisions with ALICE at LHC energies

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The ratio between (multi-)strange and non-strange hadron yield increases with the charged particle multiplicity, revealing a smooth transition from low multiplicity pp collisions to central Pb–Pb collisions. Enhanced production of strange hadrons in heavy-ion collisions compared to pp collisions, originally proposed as a signature of QGP formation in nuclear collisions. Recently, similar enhancement has been also observed in high-multiplicity pp collisions. This increase is observed to be more pronounced for hadrons with a larger strangeness content. In this context, precise measurements of multi-strange hadron production using high statistics pp collision events at $\sqrt{s} = 900$ GeV and $\sqrt{s} = 13.6$ TeV, collected by the ALICE experiment during the Run 3 data taking of the LHC will be presented.

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