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Looking for strange particles in ALICE

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Search for strange particles, produced from collisions at LHC and recorded by the ALICE experiment. The task is based on the recognition of their V0-decays, such as Kos $\longrightarrow \pi+\pi-$, $\Lambda\longrightarrow$ p + π- and cascades, such as $\Xi- \longrightarrow \Lambda + \pi-$ ($\Lambda \longrightarrow$ p + π-). The identification of the strange particles is based on the topology of their decay combined with the identification of the decay products; the information from the tracks is used to calculate the invariant mass of the decaying particle, as an additional confirmation of the particle species.
Acquaintance with the ALICE experiment, its physics goals and its physics motivation for this analysis. The method used for the identification of strange particles as well as the tools are described in detail.

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