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Resonance analysis in ALICE

ALICE is the LHC experiment most specifically aimed at studying the hot and dense nuclear matter produced in Pb-Pb collisions at 5.5 TeV, in order to investigate the properties of the Quark-Gluon Plasma, whose formation is expected in such conditions.

Among the physics topics of interest within this experiment, resonances play a fundamental role, since they allow one to probe the chiral symmetry restoration and to estimate the lifetime of the fireball.

In the ALICE official analysis and simulation framework, a complete package has been developed which is devoted to this topic and has been optimized for an efficient management of a huge amount of data. Besides, it has been optimized to deal with all the distributed analysis environments available for the ALICE collaboration and has been integrated in the general correction framework, under development within the collaboration itself.

Results and details of this package will be illustrated.

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