

Measurement of Low Mass Electron-Positron Pairs with ALICE

The ALICE experiment at the CERN-LHC is dedicated to study the properties of the Quark-Gluon Plasma created in ultrarelativistic heavy-ion collisions. Low-mass electron-positron pairs are an excellent probe for all stages of the collision because they do not undergo strong final state interactions. With its unique tracking and particle identification capabilities extending to very low momenta, ALICE is excellently suited for these measurements. We will present first results on the production of low-mass electron-positron pairs at mid-rapidity in pp collisions at $\sqrt{s} = 7$ TeV measured in ALICE and give an outlook on the low-mass program for Pb-Pb data.

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