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Elliptic flow of electrons from heavy-flavour hadron decays in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ALICE

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Charm and beauty quarks (heavy flavours) are produced in hard scattering processes in the early stages of heavy-ion collisions, and propagate through the hot and dense QCD matter (QGP) produced as a consequence of the collision. Therefore, they are sensitive probes to characterize the QGP properties.
The measurement of the elliptic flow (v_2) of open heavy-flavour particles at low p_T can give insight into the participation of the heavy quarks in the collective expansion of the system and their thermalization in the medium. While at high p_T, it allows us to investigate the path-length dependence of parton energy loss.
In this poster, we will present the measurement of v_2 for electrons from open heavy-flavour hadron decays in Pb-Pb collisions at $\sqrt{s_{NN}}$ =5.02 TeV with ALICE. The electrons are identified by means of Time Projection Chamber (TPC) and the ElectroMagnetic Calorimeters (EMCal).

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