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ATLAS measurements of collective flow of heavy-flavor hadrons in small collision systems

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ATLAS measurements of azimuthal anisotropy of heavy flavor mesons in the small systems is presented. A template fit method is used to subtract non-flow contributions using simultaneous fit to low and high charged-particle multiplicity samples. The heavy flavor flow in p +Pb is studied using multiple probes, including prompt D^0 mesons, J/ψ , and muons from semi-leptonic decays of heavy flavor hadrons. In pp collisions, flow coefficient for muons from heavy flavor decays, separated for charm and bottom origins, are also presented. The observed heavy flavor azimuthal anisotropies in p +Pb and pp collisions are found to be qualitatively similar to those of light hadrons indicating a similar origin for both types of particles.

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