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A Study to the Mass Effect due to Variation of Particle Type on the Femtoscopic Correlation Using Therminator2 Event Generator

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Studying the femtoscopic correlation of elementary particles resulting from heavy-ion collisions introduces an identification of the particle's space-time characteristics after the collision, in addition to the determination of how strong particles can interact. In this study, I try to present a femtoscopic analysis of particles with identical charges to check the effect of mass on the correlation factor through THERMINATOR2 which is used to generate events for proton-lead collisions at a center of mass energy of 5.02 TeV.

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