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Azimuthally sensitive femtoscopy with sorted events

Thursday, 18 January 2018 09:30 (30 minutes)

In the first part of the talk we shall investigate how the averaging over a large number of events influences the shape of the observed correlation function. We demonstrate that a shape characterised by Levy distribution may result from an average over Gaussian sources with varying sizes and orientations. We then propose to sort the events according to their similarity and investigate azimuthal dependence of the correlation radii on events classes which differ in shape. The method is explained and demonstrated on events simulated with different event generators.

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