Global Conservation Laws and Femtoscopy of Small Systems

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It is increasingly important to understand, in detail, two-pion correlations measured in p+ p and d +A collisions. In particular, one wish es to understand the femtoscopic correlations, in order to compare to similar measurements in heavy ion collisions. However, in the low-mult iplicity final states of these systems, global conservation laws generate significant N-body correlations which project onto the two-pion spac e in non-trivial ways and complicate the femtoscopic analysis. We discuss a model-independent formalism to calculate and account for thes e correlations in measurements.

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