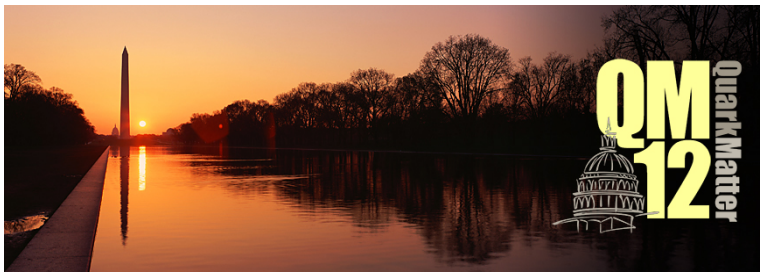

Contribution ID: **426** Type: **Poster**

Source chaoticity in heavy-ion collisions at the LHC

Thursday, August 16, 2012 4:00 PM (2 hours)

Quantum coherence is fundamental in the interpretation of geometrical information from HBT measurements. The effect of quantum coherence is not only to lower the correlation strength of HBT correlations but also to modify the shape. We present measurements of the source chaoticity from Pb+Pb sqrt(s) = 2.76 TeV collisions at the LHC using the ALICE detector. Three-pion and two-pion correlations strengths are used together to determine
the source chaoticity. The corresponding impact of quantum coherence on the HBT radii will be discussed as well.

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Session Classification: Poster Session Reception

Track Classification: Correlations and fluctuations