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## Scaling Properties of Particle Production, Azimuthal Anisotropy and Two-pion Emission Source Radii in $p+p$ , $p+A$ , $d+A$ and $A+A$ Collisions

*Tuesday 29 September 2015 16:30 (2 hours)*

A crucial open question is whether a fundamental change occurs in the reaction dynamics and the particle production mechanism, when the collision system-size is reduced from the values produced in central and mid-central  $A+A$  collisions, to those obtained in  $p+p$ ,  $p+A$ ,  $d+A$ , and peripheral  $A+A$  collisions. This question can be addressed via detailed complementary validation tests for similarities in the reaction dynamics and particle production mechanism

in  $p+p$ ,  $p+A$ ,  $d+A$  and  $A+A$  Collisions.

The results from complementary scaling tests of particle production, azimuthal anisotropy and two-pion emission source radii in these systems, will be presented and discussed.

### On behalf of collaboration:

NONE

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