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## Neutral mesons production in $pp$ collisions at LHC energies

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

The ALICE experiment at LHC is designed to study very wide  $p_T$  range neutral mesons in all collision systems and energies provided by LHC, what is useful to test QCD theory predictions.

ALICE covers the measurement of neutral pions with the photon conversion method (low and intermediate  $p_T$ ) making use of the ALICE-ITS and TPC,

and the electromagnetic calorimeters PHOS and EMCAL (intermediate and high  $p_T$ ). High  $p_T$  can be reached thanks to the triggering capabilities of the calorimeters.

We will discuss the neutral mesons production at LHC energies. The  $x_T$  scaling will be shown containing LHC and RHIC results.

### **On behalf of collaboration:**

ALICE

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