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## **J/ $\psi$ measurements in p-p and Pb-Pb collisions at LHC with ALICE (15' + 5')**

*Thursday 9 June 2011 18:00 (20 minutes)*

In heavy ion collisions at the LHC, the ALICE experiment is studying nuclear matter at very high energy density where the formation of a Quark Gluon Plasma (QGP) is expected.  $J/\psi$  production is an important probe to characterize the properties of the QGP as it gives access to the early stages of the collision. However a fundamental understanding of the  $J/\psi$  production mechanism in p-p collisions is important to study the nuclear matter effects on  $J/\psi$  production in Pb-Pb collisions. In 2010 and 2011, the LHC provided p-p collisions at  $\sqrt{s} = 7$  and 2.76 TeV and Pb Pb collisions at  $\sqrt{s} = 2.76$  TeV per nucleon pair. We will report on the latest measurements of  $J/\psi$  production at mid-rapidity (in the dielectron channel) and at forward rapidity (in the dimuon channel).

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**Session Classification:** 4D Parallel - B, charm and onia