## **Strangeness in Quark Matter 2017**







Contribution ID: 35

Type: poster presentation

## ${\rm J}/\psi$ measurements in pp collisions at $\sqrt{s}$ = 13 TeV using EMCal-triggered events with ALICE at LHC

Tuesday, 11 July 2017 17:40 (20 minutes)

The study of the J/ $\psi$  production in pp collisions provides important information on perturbative and nonperturbative quantum chromodynamics. The production of the heavy-quark pair can be described perturbatively while its hadronisation into quarkonium state is a non-perturbative process. These processes are not fully understood and additional experimental data are necessary to further constrain the theoretical production models. In this work we report studies of J/ $\psi$  production in pp collisions at a centre-of-mass energy of  $\sqrt{s}$ = 13 TeV at mid-rapidity with ALICE. The J/ $\psi$  are reconstructed via their dielectron decay channel in events where at least one of the decay electrons was triggered on by the Electromagnetic Calorimeter (EMCal). The availability of a high- $p_T$  electron trigger enhances the sampled luminosity significantly relative to the available minimum-bias triggered data set and extends the  $p_T$  reach for the J/ $\psi$  measurement.

Additionally, the usage of EMCal for particle identification at high  $p_T$  ranges provides a very good electron/hadron separation. Using these data, the J/ $\psi$  measurement is performed in the transverse momentum interval  $5 < p_T < 20 \text{ GeV}/c$ .

## List of tracks

Heavy-flavour (open and hidden)

**Primary author:** Dr JAHNKE, Cristiane (Technische Universitaet Muenchen (DE))

Presenter: Dr JAHNKE, Cristiane (Technische Universitaet Muenchen (DE))

Session Classification: Poster session

**Track Classification:** Heavy-flavour (open and hidden)