

Xiaoyu Liu

I am from Wuhan, China. I study physics in Central China Normal University, and will start my fourth year as an undergraduate student this autumn.

During this summer in CERN I joined the ALICE collaboration and I developed my project in the ALICE physics group under the supervision of Prof. Paolo Bartalini and Dr. Prabhakar Palni. I focused on the study of the pseudo-rapidity distribution of charged tracks in high multiplicity pp collisions at $\sqrt{s}=13$ TeV. In my work I am focusing on the quality assurance of the pp minimum bias and high multiplicity data collected in the year 2015. I am repeating the pseudorapidity measurement in different periods x-checking the agreement with the simulation and investigating various effects: trigger conditions, change in the LHC beam structure (for example 50 ns vs 25 ns), and response of the Inner Tracker System to these changes.

I travel a lot on the weekends during this summer program, and I've learnt a lot both inside and outside of CERN!