Société Française de Physique

ID de Contribution: **11** Type: **Non spécifié**

Commissioning du détecteur MFT d'ALICE et mesure de la polarisation des J/ produits en collisions Pb-Pb ultrapériphériques à 5.02 TeV

vendredi 22 octobre 2021 17:52 (23 minutes)

Ultra-relativistic heavy-ion collisions are an important tool to investigate the Quark-Gluon Plasma predicted by the theory of Quantum Chromo-Dynamics. It is also possible to use these collisions to study poorly known gluon shadowing effects at low Bjorken-x values. Indeed Ultra-Peripheral Collisions (UPC) between two Pb nuclei, in which the impact parameter is larger than the sum of their radii, provide a useful way to study photonuclear reactions. Thanks to the data collected during Run2 by the ALICE Collaboration, a study based of the angular modulation of the muons originating from decays of photoproduced J/ψ mesons is being performed in Lyon at forward rapidity. The implementation of the Muon Forward Tracker detector in ALICE for Run 3 and Run 4 at forward rapidity will improve the resolution and thus allow more precise studies of the photoproduction in UPC.

Auteur principal: MIGLIORIN, Lucrezia Camilla (Institut de Physique de 2 Infinis de Lyon)

Orateur: MIGLIORIN, Lucrezia Camilla (Institut de Physique de 2 Infinis de Lyon)

Classification de Session: Hadronic Physics

Classification de thématique: Hadronic Physics