ID de Contribution: **47** Type: **YSF (Young Scientists Forum)**

Search for Z-photon resonances with the ATLAS detector

lundi 20 mars 2017 19:47 (5 minutes)

An overview of the search for $Z\gamma$ resonances using proton-proton collision data recorded by the ATLAS detector is presented. A search for evidence of an SM Higgs boson undergoing the decay $H \to Z\gamma, Z \to \ell\ell$, where $\ell = e$ or μ, has been performed, and a brief summary of the most recent public results is given. A search for exotic high mass resonances decaying to a $Z\gamma$ final state has been performed using proton-proton collision data recorded at $\sqrt{s} = 13$ TeV. Leptonic decays of the Z boson ($Z \to \ell\ell$, where $\ell = e$ or μ) have been investigated, together with hadronic decay modes ($Z \to q\bar{q}$). An overview of the most recent public results is presented.

Author: Dr READIOFF, Nathan (Laboratoire de Physique Subatomique & Cosmologie)

Orateur: Dr READIOFF, Nathan (Laboratoire de Physique Subatomique & Cosmologie)

Classification de Session: YSF2

Classification de thématique: Experiment