FZU Institute of Physics of the Czech Academy of Sciences

Invitation

to the seminar of Division of Elementary Particle Physics of the Institute of Physics of the Czech Academy of Sciences

Dr. Filip Nechanský

FZU - Institute of Physics of the Czech Academy of Sciences

LHC as a Photon Collider with the ATLAS detector

Abstract: The Large Hadron Collider (LHC) allows us to test particle physics at unprecedented energies, with processes driven predominantly by the strong interaction. However, using innovative techniques, the LHC provides the opportunity to study processes initiated by photons. As purely electroweak processes, photon fusion provides a direct probe of the electroweak sector.

The seminar provides an overview of photon induced processes in both proton and heavy ion collisions measured with the ATLAS detector, along with prospects for future studies. It also provides a brief summary of the experimental techniques needed to isolate these rare signatures within the busy environment of typical LHC collisions.

When: Thursday, November 21, 2024 at 2PM

Where: Dvořák hall, FZU, Pod Vodárenskou věží 1, Prague

For more information, please see https://indico.fzu.cz/event/264/

Roman Lysák Jiří Hejbal