

## **Seminar 2: "Searches for Dark Matter with Cherenkov telescopes: Latest results and a glimpse into the future"**

*Monday 31 October 2022 14:45 (1 hour)*

The quest for Dark Matter is a since long unsolved puzzle of modern physics. Imaging Atmospheric Cherenkov telescopes, like MAGIC located at Roque de los Muchachos Observatory on La Palma, have so far searched almost 1000 hours of their data for gamma-ray signals from annihilating or decaying heavy ( $>\text{GeV}$ ) Dark Matter particles. Also, the next-generation Cherenkov Telescope Array (CTA) is under construction, promising a moment of truth for TeV Dark Matter in the near future. In this seminar, I will introduce how to search for Dark Matter with Cherenkov telescopes. I will present the latest Dark Matter constraints obtained with the MAGIC telescopes, as well as what we can expect to learn with CTA.

**Presenter:** Dr HÜTTEN, Moritz