



Contribution ID: 98

Type: talk

Search for fundamental physics with HESS and CTA

Thursday, 19 September 2013 18:30 (35 minutes)

The H.E.S.S. experiment of imaging atmospheric Cherenkov telescopes (IACT) operational since 2004, has discovered many new sources of cosmic-ray acceleration and searched for fundamental physics. In September 2012, a fifth and larger telescope was inaugurated, lowering the energy threshold and starting the second phase of the experiment. In the coming years, the Cherenkov Telescope Array (CTA) will be the first high energy gamma-ray observatory. Consisting of two arrays of several dozens of telescopes of different sizes, it aims at increasing the sensitivity of current experiments by one order of magnitude and enlarge the energy window from around 10 GeV to 100 TeV. In this presentation, I will discussed some results and prospects of these two experiments in the search of new physics.

Primary author: Dr FARNIER, Christian (Oskar Klein Centre, Stockholm University)

Presenter: Dr FARNIER, Christian (Oskar Klein Centre, Stockholm University)

Session Classification: Working Group 4

Track Classification: Working Group 4