

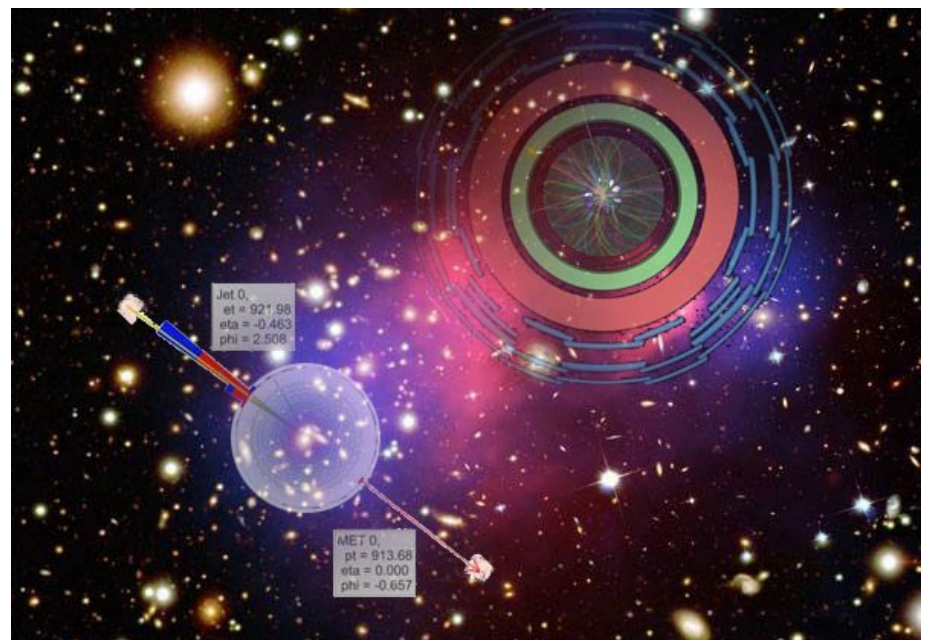
Hunting the invisible – Searches for dark matter at the LHC.

Kerstin Hoepfner (RWTH Aachen)

Tuesday, 11 February 2014

16:45 h, Auditorium

Astronomical observations suggest the existence of an unknown dark matter constituting a large fraction of the Universe, yet its nature remains a mystery. It is possible that dark matter could be produced at the LHC as pairs of particles. Possible experimental signatures have recently been searched for by the ATLAS and CMS experiments, providing complementary approaches for direct experimental detection. Given that dark matter cannot be detected directly, these searches are quite challenging. The talk will discuss the results based on searches using the data obtained in 2011 and 2012 at the LHC.



- **Coffee, tea and cookies will be served at 16:30 h**
- **After the seminar there is a chance for private discussions with the speaker over wine and pretzels**