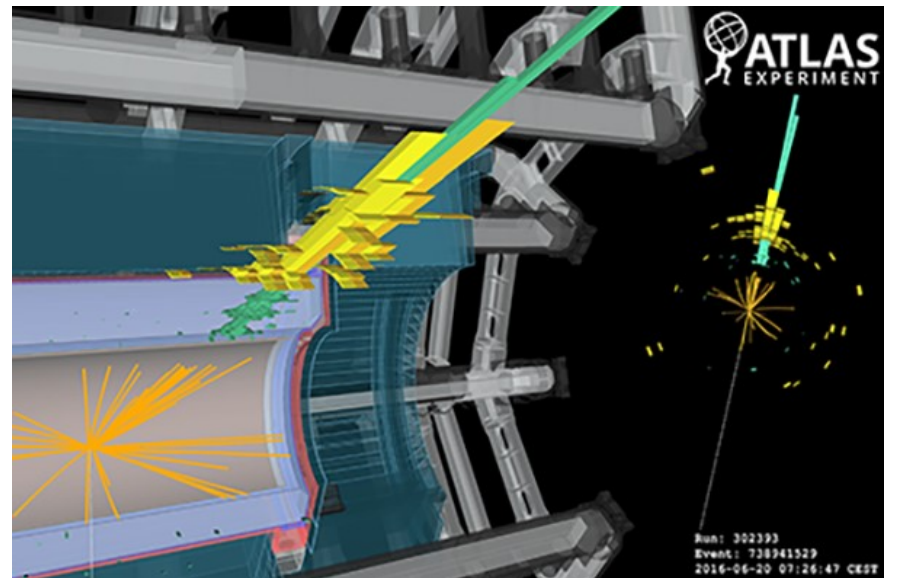


Dark matter and dark energy with the early Run-2 LHC dataset.

Tuesday, 29 October 2019, DESY Auditorium, 16:45 h

Priscilla Pani (DESY)

The existence of a non-luminous component of matter and the origin of the accelerating expansion of the universe are two major unknowns in our current understanding of the universe. The origin and properties of these two unknowns can also be constrained using collider data. A summary of the recently published constraints on mediator-based dark matter and scalar dark energy from the ATLAS collaboration will be presented, providing an overview of the results obtained with the early Run-2 dataset (2015 - 2016). When relevant, the result will be compared with other collider experiment results.



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