Call for 2016 DESY-ONACPR Fellowship Applicants

## **Research Laboratory: DESY (*Please reference to DESY-ONACPR-2016-10*)**

### Division/Group: FH/CMS

### Supervising scientist: Prof. Christian Schwanenberger

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### Research Field: Elementary Particle Physics at the LHC, Search for Dark Matter

**Position:** Postdoctoral Research in data analysis with the CMS experiment

The origin of Dark Matter (DM) is one of the most important topics in today's science. The running of CERN's Large Hadron Collider at a new energy frontier offers very exciting perspectives for particle physics, in particular in searches for new physics beyond the Standard Model (SM).

DESY plays a leading role in searches for New Physics like supersymmetry and DM with the CMS experiment. The successful candidate will play a central role in the analysis of CMS data to search for DM and to theoretical interpretations in the context of extensions of the SM such as simplified DM models.

**Research Area:**

**Specific Requirements:**

* solid skills in modern programming languages, preferably C++ and python
* basic knowledge in root
* data analysis experience. The candidate should preferably have at least one publication as primary author or a preliminary result of an own data analysis in the field of high energy physics
* very good knowledge of English language in writing and speaking

**Work Place:** Hamburg

**Earliest Start:** December 2016

**Language Requirement:** (please note that we require for all candidates proven records of English, e.g. CAE certificate)

**Further Remarks:**