Call for 2015 DESY-ONACPR Fellowship Applicants

## **Code: DESY/2015/2**

## **Research Laboratory: DESY**

### Division/Group: FH/ALPS

### Supervising scientist: Axel Lindner Email/Phone: axel.lindner@desy.de

### Research Field: Experimental particle physics

**Position:** Postdoctoral research in cryogenic photon detectors

Optimizing cryogenic detectors for low background, high quantum efficiency detection of single photons at 1064: The ALPS-II experiment is using a superconducting (transition-edge type) photon detector to meet the requirements for the search of rare events related to photon-mixing with light fundamental bosons. At the current stage, characterization and optimization of superconducting detectors are at the focus, future developments will aim at developing new detectors and exploring the fundamental limits of background reduction as well as new application in astrophysical and particle physics instrumentation.

**Research Area:**

**Specific Requirements:**

The successful applicant will have a background and profound experience in low-temperature detection techniques; in the ideal case, the applicant has been working in a similar research area.

**Work Place:** Hamburg

**Earliest Start:** December 2015

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

**Further Remarks:** The candidate is expected to participate in the supervision of PhD students.