**2018 Helmholtz – OCPC – Program**

**for the involvement of postdocs in bilateral collaboration projects**

**DESY\_OCPC\_2018-17**

**PART A**

**Title of the project:**  Belle II Pixel Vertex Detector

**Helmholtz Centre and Research Group: DESY**

**Project leader: Dr. Carsten Niebuhr**

**Web-address:** http://belle2.desy.de

**Description of the project** (max. 1 page)**:**

**DESY is one of 12 German institutes, which are currently building a novel pixel vertex detector (PXD) for the Belle II experiment at KEK in Tsukuba, Japan. The PXD is based on the DEPFET technology and will be installed and commissioned in the second half of 2018 at KEK. Physics data taking with this complex device will start in 2019. The DESY group is looking for an outstanding postdoc with experience in operation and performance optimization of a modern particle physics detector who is willing to spend some fraction of his/her time at KEK.**

**Description of existing or sought Chinese collaboration partner institute** (max. half page)**: There is a longstanding collaboration with IHEP (Beijing) who have built essential components of the PXD high bandwidth readout system.**

**Required qualification of the post-doc:**

* PhD in Experimental Particle Physics
* Experience with modern particle detectors
* Additional skills in modern software and analysis tools

**PART B**

**Documents to be provided by the post-doc, necessary for an application to OCPC via a postdoc-station:**

* + Detailed description of the interest in joining the project (motivation letter)
  + Curriculum vitae, copies of degrees
  + List of publications
  + 2 letters of recommendation
  + Proof of command of English language

**PART C**

**Additional requirements to be fulfilled by the post-doc:**

* Max. age of 35 years
* PhD degree not older than 5 years
* Very good command of the English language
* Strong ability to work independently and in a team