

## Position Profile for Chinese Applicants running for 2019 Helmholtz – OCPC – Program

### **PART A (Info about the Position)**

**Helmholtz Centre and institute: DESY**

**Title of the project:** Cosmic rays, Magnetic field, and/or turbulence

**Project leader:** Huirong Yan

**Web-address:** [www-zeuthen.desy.de/~hyan](http://www-zeuthen.desy.de/~hyan)

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

We are exploring the basic processes in the large scale plasma, which is closely linked to many astrophysical phenomena ranging from our solar system to the early universe. In particular, the research we do include cosmic rays, high-energy astrophysics, interstellar medium, plasma instabilities, magnetohydrodynamic turbulence and magnetic field detection as well as their influences on various astrophysical problems. Scholars interested in any of the following topics are welcome to join us: 1) Theoretical Astroparticle physics, in particular, bridging the basic plasma processes with the modelling of various observations; 2) Statistical study of astrophysical turbulence; 3) Plasma Astrophysics; 4) Magnetic field and polarimetry; 5) Interstellar medium.

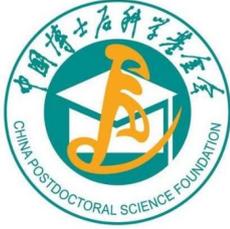
### **Required qualification of the post-doc:**

- PhD in Astronomy or Astrophysics.....
- Experience with numerical simulations and/or statistical analysis and/or data science.....
- Additional skills in .....

### **PART B (Materials and Procedures)**

**The applicants shall submit the following documents to a Chinese postdoc station affiliated to a research institution or a university, after passing through the internal selection, the qualified application shall be forwarded to OCPC, and then to Helmholtz for evaluation:**

- Detailed description of the interest in joining the project (motivation letter)



**HELMHOLTZ** RESEARCH FOR  
GRAND CHALLENGES

- 2 letters of recommendation
- Curriculum vitae, copies of degrees
- List of publications
- Proof of command of English language

### **PART C (General Conditions)**

#### **Additional requirements on the postdoctoral fellows:**

- Chinese citizenship from Mainland China (allows application while staying abroad)
- Max. age of 35 years, PhD degree not more than 5 years by submission of application
- Very good command of English language
- Strong ability to work independently and in a team