PhD Position in Theoretical Astro-Particle Physics.

RHUL

A fully funded 3.5-year PhD studentship starting in October 2017 is available in the area of theoretical astro-particle physics under the supervision of Stephen West. The position, depending on eligibility, may either be funded by STFC, the UK research council for Particle Physics or it may be funded by a RHUL scholarship. Please see the eligibility criteria for the STFC funding here, there are no such restrictions on the funding from RHUL. The position may be extended by 0.5 years depending on performance and funding availability.

The topics available include Beyond the Standard Model (BSM) model building for LHC/future collider physics, dark matter physics and the connection to direct detection (in particular with the direct detection group at RHUL), neutrino physics, early universe cosmology and black hole physics. The final topic of the PhD will depend upon the successful candidate's interests and the latest developments in the field.

The successful student will benefit from interactions with the experimental group at RHUL. The ATLAS group has expertise in Higgs Physics, exotics, and top physics. RHUL also has experimental physics groups with expertise in dark matter direct detection and neutrino physics. The successful candidate will also benefit from the close connection the group has with the particle theory group at the University of Oxford.

In the first year, the student will attend the NExT Institute's Graduate School to acquire a broad foundation of knowledge in core areas of Theoretical Particle Physics. At the end of the first year the student will attend the British Universities Summer School in Theoretical Elementary Particle Physics (BUSSTEPP). Additional local and regional training is provided by the NExT Institute and the SEPnet Graduate Network. After the first year, the student will attend national and international workshops, conferences and summer schools.

The closing date for applications is January 31st, 2017. To apply, please follow the link. Interviews are tentatively scheduled for February 10th and 17th, 2017.

Please contact Stephen West (Stephen.West@rhul.ac.uk) for further information on this PhD opportunity.