

Theoretical Particle Physics

University of Siegen – Doctoral Student

Field of Interest: hep-ph

Deadline: 2021-09-10

Region: Europe

Job description:

The Theoretical Particle Physics group at the University of Siegen, Germany is inviting applications for PhD positions in Theoretical Particle Physics, under the project grant “Rare B-decays and physics beyond the standard model”. The start date can be **at the earliest** possible and is negotiable. Applicants should hold a master's degree (Master of Science or equivalent) with a specialization in the field of theoretical particle physics.

The scientific activities of the group cover a wide range of topics in flavour and collider physics such as heavy-quark physics, Higgs and electroweak physics, jet physics, top physics, effective field theories, higher-order QCD calculations, QCD sum rules, Monte-Carlo event generators and physics beyond the Standard Model.

For the benefit of the PhD students, the group offers regular courses on advanced topics in particle physics, for instance,

- Flavour Physics,
- Collider Physics,
- Higgs Physics,
- Effective Field Theories and the Renormalization Group,
- Tools for Multi-loop Calculations in Field Theory,
- Physics beyond the Standard Model.

In addition, the participation of PhD students in international particle physics schools is encouraged and supported.

The principal investigators of the group are:

Prof. Dr. Guido Bell,
Prof. Dr. Thorsten Feldmann,
Prof. Dr. Alexander Khodjamirian,
Prof. Dr. Wolfgang Kilian,
Prof. Dr. Alexander Lenz,
Prof. Dr. Thomas Mannel,
PD Dr. habil. Oscar Cata,
PD Dr. habil. Tobias Huber,
Dr. Bjoern O. Lange,
Dr. Rusa Mandal,
Dr. Jan Piclum.

The application, including

- a Curriculum Vitae
- a research statement
- a list of publications (if applicable)
- two letters of recommendation

to be send to Rusa Mandal (Rusa.Mandal@uni-siegen.de). The deadline for full consideration is **September 10, 2021**.

Contact: Rusa Mandal (Rusa.Mandal@uni-siegen.de)

Letters of Reference should be sent to: Rusa.Mandal@uni-siegen.de