

Postdoctoral position in heavy-ion physics at the University of Heidelberg

We are seeking a talented and motivated scientist (female/male) for a postdoctoral position at the University of Heidelberg, to work in the field of ultra-relativistic heavy-ion physics. The position includes participation to the ALICE experiment at the LHC in close collaboration with the ALICE teams in Heidelberg and at GSI Darmstadt (<https://alice-wiki.gsi.de> and <http://www.physi.uni-heidelberg.de/~sma/>), as well as participation to the ISOQUANT Collaborative Research Center (http://isoquant.uni-heidelberg.de/index_en.php).

The main focus of research will be on the experimental study of particle correlations, collective flow, and fluctuations in hadron collisions and their phenomenological and theoretical description. The research will be performed in collaboration with Prof. Dr. Silvia Masciocchi (Uni Heidelberg and GSI), Dr. Ilya Selyuzhenkov (GSI) and Dr. Stefan Flörchinger (Uni Heidelberg) in a dynamic, team-oriented and collaborative environment.

Main responsibilities with the postdoctoral position include:

- analysis of the experimental data recorded by ALICE and participation to the ALICE operation (including shifts during data taking)
- collaboration with the team at the Institute for Theoretical Physics in Heidelberg and phenomenological interpretation of heavy-ion experimental results in view of fluid dynamics descriptions or alternative scenarios
- supervision of doctoral and undergraduate students involved in the project.

Requirements and qualifications expected from the candidate:

- PhD in physics
- experience in the field of experimental heavy-ion physics. A strong record in experimental data analysis of particle correlations and fluctuation is desirable
- advanced experience in object oriented programming in the ROOT environment
- availability for regular travel abroad
- excellent English oral and written communication skills. Basic knowledge in German is a plus
- strong team player with analytical skills and interested to work in a highly interdisciplinary team.

Our offer:

- research work in a multi-disciplinary team of experts embedded in the international ALICE community and in the related theory community
- an international environment, in which you can develop your talent and realize ideas and innovations within a competent team of experts
- income according to the public sector pay scale (TVöD Bund, E 13)
- possibility to join teaching activities of the colleagues, at the University of Heidelberg

The position is available starting on January 1, 2018, for an initial duration of two years.

The University of Heidelberg wishes to reflect the diversity of society and welcomes applications from all qualified candidate regardless of personal background.

Please send your application including CV, list of publications, a brief research statement and the names of two referees until December 20, 2017 to:

Silvia Masciocchi - s.masciocchi@gsi.de

Ilya Selyuzhenkov - ilya.selyuzhenkov@gmail.com