



**The Henryk Niewodniczański  
INSTITUTE OF NUCLEAR PHYSICS  
POLISH ACADEMY OF SCIENCES**



The Leading National Research Centre

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**The Henryk Niewodniczański Institute of Nuclear Physics of the Polish Academy of Sciences in Kraków, Poland, invites applications for two PhD student positions in the framework of a new research project “Electromagnetic interactions – a new source of information on high energy collisions of atomic nuclei”. The project is aimed at a series of novel studies of electromagnetic effects occurring in heavy ion collisions measured by CERN experiments.**

**Expected qualifications** include a Master Degree in physics or in a related field obtained before starting the doctoral studies (it is not necessary at the moment of application). They also include a good knowledge of basic physics, and a basic knowledge in high energy or nuclear physics. Ability to work in a Linux operating system and knowledge of C/C++ will be useful.

**Scientific tasks:** the two PhD students are expected to contribute to the realization of the new research project *Electromagnetic interactions – a new source of information on high energy collisions of atomic nuclei*. The corresponding studies will be performed in the framework of NA49 and NA61/SHINE experiments at the CERN SPS. The project is also aimed at studies of ultrarelativistic heavy ion collisions in the energy regime of the Large Hadron Collider, including feasibility studies for ALICE and/or other LHC detectors. A possible contribution to the theoretical/phenomenological part of the project, including simple modelling and Monte Carlo simulations, can also be considered depending on the interest of the successful candidate.

**Application deadline:** August 22, 2016, 23:59

**Job details:** after passing the qualifying exam (September 27-29, 2016) the candidates will be enrolled in the International PhD Studies program at the Institute of Nuclear Physics of the Polish Academy of Sciences (see <http://www.ifj.edu.pl/msd/en/index.php?menu=recruitment> for full information on the recruitment process), during which they can receive a scholarship funded by the PhD program and an additional scholarship funded by the research project. Funding for travel and access to computational equipment will be fully provided. The starting date is October 1st, 2016.

**Additional information:** candidates are kindly requested to provide a CV with a statement of consent to the processing of personal data for the purposes of recruitment, a copy of their university diploma, a description of their scientific achievements including possible distinctions and awards, and arrange for one letter of recommendation. Applications sent before August 22, 2016 will be considered first. Interviews will be arranged with selected candidates. The final deadline for applications is September 12, 2016. **Applications (in pdf format) as well as any possible questions should be sent to: [andrzej.rybicki@cern.ch](mailto:andrzej.rybicki@cern.ch)**

**WE ARE LOOKING FORWARD TO SEE YOU IN KRAKÓW !!!**

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