

Contest for a PhD scholarship within the project NCN SONATA BIS 7 no 2017/26/E/ST2/00763 "Compact Phase Space Field Theories - from Gravity to Complex Systems".

Institution name: Faculty of Physics, Astronomy and Applied Computer Science of the Jagiellonian University in Krakow, Poland.

Position name: PhD student/scholarship

Requirements:

- Master of Science in the area of theoretical physics
- Fluent English in writing and speaking
- Ability to work in a scientific group
- Master thesis devoted to field theory would be an advantage

Description of tasks:

- Construction of gravitational minisuperspace models with the compact phase space
- Construction of compact phase space generalizations of fermion and gauge field theories
- Quantum gravity with the compact phase space
- Interdisciplinary applications of compact field phase spaces (topological quantum computations, complex systems)

Type of the National Science Centre Poland grant: SONATA BIS 7

Application deadline: 20th June 2019

Form of applying: e-mail to the address [jakub.mielczarek@uj.edu.pl](mailto:jakub.mielczarek@uj.edu.pl), with the annotation "PhD student"

Terms of employment:

the scholarship of 2500 PLN per month for the period from 1st October 2019 to 30th September 2021, with a possibility of extension.

The scholarship will be complemented by the regular scholarship for PhD students at the Jagiellonian University, which is around 2500 PLN net per month. In total, the selected candidate can expect around 5000 PLN net salary per month.

Application for the scholarship has to contain:

- cover letter
- CV with the following clause: "I hereby give consent for my personal data to be processed in matters pertaining to the recruitment process in accordance with the Regulation (EU) 2016/679 of the European Parliament

and of the Council of 27 April 2016 with regard to the processing of personal data."

- document certifying the completion of Master studies or written commitment to deliver it before the agreed date

Condition for receiving the scholarship is being admitted to PhD studies at the Faculty of Physics, Astronomy and Applied Computer Science of the Jagiellonian University.