

# Center for Theoretical Physics PAS

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## PhD position at Center for Theoretical Physics

The Director of the Center for Theoretical Physics PAS invites applications for **2 PhD positions** at the CTP PAS, financed from the project „*Local relativistic perturbation theory in hydrodynamics and cosmology*” No. 2016/22/E/ST9/00578 (SONATA BIS 6) supported by the National Science Center, decision No. DEC-2016/22/E/ST9/00578. The principal investigator is Prof. Mikołaj Korzyński. The position starts on 1st September 2017, and will last until the end of the project (46 months). The PhD students will be enlisted as a participants of the PhD Program of the Institute of Physics PAS, following their individual programs. The subject of the PhD will be related to the topic of the project. The students will receive a stipend of 3000 zł/month.

The group of Mikołaj Korzyński will work on the application of numerical relativity to cosmology, especially the problems of structure formation and the light propagation through spacetime, combining numerics, stochastic and perturbative methods.

At the time of application the candidates should either have a MSc degree, or will obtain it before signing the contract. The positions require a MSc or compatible in physics, astronomy, computer science or related field. Experience in any of the following: general relativity, astrophysics, differential geometry, computational hydrodynamics would be an advantage, although is not necessary. The tasks of the PhD students involve investigation of structure formation in the Universe

using numerical simulations and perturbative approach.

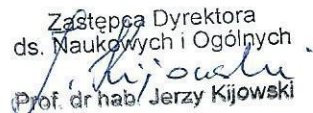
The applicants should submit the following documents:

- scientific CV, including the major scientific achievements, list of publications, participation in research projects and conferences. The document should contain the statement: *“I hereby give consent to the processing of my personal data for the needs of the recruitment process (in accordance with the Law dated 29.08.97 on the protection of personal data (Journal of Laws, No. 101, item 926)”*.
- transcript of records from undergraduate studies
- personal questionnaire form from the CTP PAS webpage
- certified copy of the MSc diploma (or the letter from the supervisor about the prospects for completion of the Thesis before the beginning of the employment)

via email directly to Mikołaj Korzyński ([korzynski@cft.edu.pl](mailto:korzynski@cft.edu.pl)). Additionally they should arrange for two letters of recommendation to be sent to the same email address.

**The deadline for applications is 30th June 2017.** Selected applicants will be invited for an interview.

For more information please contact Prof. Mikołaj Korzyński ([korzynski@cft.edu.pl](mailto:korzynski@cft.edu.pl)).

Zastępca Dyrektora  
ds. Naukowych i Ogólnych  
  
Prof. dr hab. Jerzy Kijowski