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## Open Postdoctoral Position in Theoretical Research of Time Crystals

**Principal Investigator:** Prof. Krzysztof Sacha

**Institution:**

M. Smoluchowski Institute of Physics, Jagiellonian University in  
Kraków, ul. Łojasiewicza 11, 30-348 Kraków, tel. +48126644779

**Position:** Postdoctoral full time position

**Requirements:** Candidates need to possess a PhD degree in  
physics related to theoretical research of quantum many-body  
systems, condensed matter physics or ultra-cold atomic gases.  
Experience in large scale computer simulations is advantageous.

**Project description:** The project is devoted to theoretical research  
of time crystals – phenomena related to spontaneous breaking of  
time translation symmetries or to realization of condensed matter  
phases exclusively in the time domain. One part of the project is  
related to theoretical support of time crystal experiments in ultra-  
cold atomic gases and the other part to theoretical investigation of  
novel condensed matter phases in the time dimension.

**Expires:** 15 September 2019

**Application:** please send the following documents to  
[krzysztof.sacha@uj.edu.pl](mailto:krzysztof.sacha@uj.edu.pl)

- 1) **cover letter**,
- 2) **CV**,
- 3) **contact details of two referees** (please remember that the  
referees have to provide recommendation by 15 September  
2019),
- 4) **declaration of personal data processing**, see:  
<http://chaos.if.uj.edu.pl/~sacha/Declaration.docx>

**Employment conditions:** gross salary 10000 PLN per month  
(about 6500 PLN net salary). Initially the contract will be signed for  
18 months with possible extension for additional 18 months.

**Additional information:** The selection board will announce the  
results shortly after 15 September 2019. Candidates may be asked  
for additional information or to hold an interview with selection  
board members between 15 and 30 September 2019. In the absence  
of satisfactory offers, the competition may be extended.

Instytut Fizyki

imienia

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