

## Open Postdoctoral Position in Theoretical Research of Time Crystals



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**Principal Investigator:** Prof. Krzysztof Sacha

**Institution:**

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Instytut Fizyki

imienia

Mariana Smoluchowskiego

Zakład Optyki Atomowej

**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:** 30 November 2020

**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 30 November 2020),
- 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). The contract will be signed for 12 months.

**Additional information:** The selection board will announce the results shortly after 30 November 2020. Candidates may be asked for additional information or to hold an interview with selection board members. In the absence of satisfactory offers, the competition may be extended.

ul. prof. Stanisława

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