

Announcement: Post-doc position in QuantEra project QTFLAG

„Quantum Technologies For Lattice Gauge theories”

Coordinator Polish node: prof. Jakub Zakrzewski

Location: Faculty of Physics, Astronomy and Applied Computer Science, Jagiellonian University, ul. Łojasiewicza 11, 30-348 Kraków,

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Requirements: PhD in physics with degree awarded not earlier than 7 years before the moment of commencing the employment (maternity leaves, military service period, other documented breaks of career extend the limit), good knowledge of quantum mechanics, knowledge of many-body physics and/or condensed matter theory and/or cold atoms and/or tensor networks. Efficiency in computer programming (Python, C etc.) and good English language skills.

Job description: The successful candidate will implement different numerical tools and theoretical ideas in attempts to construct quantum simulators of lattice gauge theories involving cold atomic platforms (optical lattices of different sort, artificial dimensions, topological aspects, periodic driving of atomic/lattice parameters should interest the candidate). The work will be performed in a close collaboration with ICFO group of prof. Maciej Lewenstein, the candidate may expect to commute between Barcelona and Krakow.

Both Barcelona and Krakow are lively cities offering different attractions (and a different climate).

Deadline for applications: **15 February 2018** although later applications may also be considered if the position is not filled.

The candidate should send his short motivation letter, CV with a list of publications and arrange for two recommendation letters to be send to jakub.zakrzewski@uj.edu.pl

Conditions: Duration 36 month maximum. Salary 144000 polish zloties per annum (brutto) yielding about 1900 euro per month after taxes on average. Costs of living in Poland are significantly lower than in “old Europe”. Stays in Barcelona will be additionally supported by per diem etc.



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