

Open Call for research positions within the framework of the  
grant MAESTRO 7, **2015/18/A/ST2/00274**  
financed by Narodowe Centrum Nauki

The project is realized by a scientific group of Prof. Karol Życzkowski  
Smoluchowski Institute of Physics, Jagiellonian University in Cracow

Project title: *Uncertainty relations and quantum entanglement*

The project: The goal of the project is to generalize existing uncertainty relations and to apply obtained results in investigation of multipartite quantum entanglement.

Positions offered:

**A) Ph.D student position. Duration:** 2 years, start of the contract 1.10.2017

**Requirements:** Master in theoretical physics. Very good knowledge of quantum theory and mathematical physics. Research experience in the field of quantum information will be appreciated. Analytical and numerical skills combined with a wish to work in quantum theory, study mathematical and physical literature and to perform analytical and numerical calculations. Fluent English. **Application includes:** application, scientific CV, full publication list, copy of diploma, Master thesis in a pdf file, reference letter from the supervisor of the Master thesis.

**B) Student position. Duration:** 1 year, start of the contract 1.3.2017.

**Requirements:** Completed four years of study. Good knowledge of quantum theory and mathematical physics. Analytical and numerical skills. Wish to contribute actively to the goals of the project while preparing her/his Master Thesis in theoretical physics. **Application includes:** application with CV, copy of bachelor's diploma (licencjat), baccalaureate thesis in a pdf file, reference letter from the supervisor of the bachelor's thesis.

Application for these positions with necessary attachments should be sent by e-mail to **karol.zyczkowski@uj.edu.pl** not later than on **February 24, 2017**.

Kraków, January 24, 2017

Karol Życzkowski