

Postdoctoral position

**Stochastic thermodynamics of molecular systems:
from classical to quantum**

We are looking for a young researcher to join our team. This position will be part of a research project funded by the Grant Agency of the Czech Republic and led by Karel Netočný (Institute of Physics, Academy of Sciences of the Czech Republic, Prague) and Petr Chvosta (Faculty of Mathematics and Physics, Charles University in Prague).

The research project concerns the theoretical analysis of far-from-equilibrium energy transformations on the level of individual molecules by applying rapidly developing methods of stochastic and quantum thermodynamics. It aims to develop universal formulas for large fluctuations of work and entropy production, to extend stochastic thermodynamics to processes in nonequilibrium reservoirs, and to investigate performance of nano-devices on the level of individual stochastic trajectories. The post-doc will take part in these research topics by performing theoretical and numerical analysis of relevant stochastic and quantum models.

The postdoctoral candidate should have a solid background in theoretical physics and some work experience in the area of either equilibrium or non-equilibrium statistical mechanics. Although not strictly required, the knowledge of analytical/numerical stochastic methods will be highly appreciated.

Open position: From the beginning of 2017 for one year with a possible two-year extension.

Work conditions: The working place (Institute of Physics) is situated in the north part of Prague and it offers good work environment. The monthly salary will be CZK 30000 (roughly EUR 1100) corresponding to a decent standard of living in the Czech Republic.

Contact: Sent a brief application e-mail including CV to Karel Netočný: netocny@fzu.cz