

# Postdoc positions at Doppler Institute

Applications are invited for several postdoc positions in **Doppler Institute for mathematical physics and applied mathematics** for research work in the intentions of the DI research programme. The said positions focus on

- Quantum walks and their applications in information handling
- Open quantum system dynamics, iterated quantum maps with applications to percolations in higher dimensions
- Spectral properties of quantum waveguides and layers
- Soft and generalized quantum graphs
- Algorithms in classical and quantum optics

being supervised by Professors *Igor Jex*, *Pavel Exner*, and *Goce Chadzitaskos*.

The advertised positions are supported by the EU Operational Programme “Education for Competitiveness” and the successful applicants will be employed by the FNSPE branch in *Děčín*, working in close collaboration with their mentors and other DI members based in Prague and Řež. The positions are for a period up to three years; the proposed salaries are highly competitive on the EU-12 scale.

Candidates are supposed to have

- a recent PhD degree in mathematics or physics
- a good command of the English language
- publications in internationally recognized journals

Applications have to be sent to *doppler@ujf.cas.cz* and simultaneously snail-mailed to the *Scientific director, Doppler Institute, Břehová 7, 11519 Prague, Czechia*. They should contain

- a one-page *cv* together with a motivation letter (up to 2000 characters), both in English
- a supervisor recommendation including his/her contact data; it is possible to add other recommendations
- demonstration of the knowledge of English, either by a certificate (CAE, TOEFL or equivalent) or by providing a thesis written in English

The applicants are encouraged to submit their papers **before December 20, 2012**; later applications will be considered only if some of the positions remains unfilled. The actual start of each position will be negotiated individually; the default is January 2, 2013.