

Seminar

Znanstvenog centra izvrsnosti
QuantiXLie i Fizičkog odsjeka

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Durham University, UK

Hybrid Computing with Quantum Annealers

Quantum annealing of artificial spin systems provides a promising route to solve many interesting optimization and machine learning problems. While traditionally formulated quantum annealing starts from an equal superposition of all classical solutions, new techniques have recently been developed to take advantage of information one may already have about the solution, either from classical algorithms, or previous calls to the annealer. In my talk I will discuss a specific new feature which has recently been added to the superconducting circuit quantum annealers manufactured by D-Wave Systems Inc. This feature, known as reverse annealing, allows for a wide variety of hybrid quantum/classical algorithms which were not previously possible, I will discuss these theoretically, as well as showing some preliminary experimental results. I will then highlight some of the future opportunities and challenges related to reverse annealing.

Petak, 12. 10. 2018., 14h
Fizički odsjek, F-201 (2. kat)



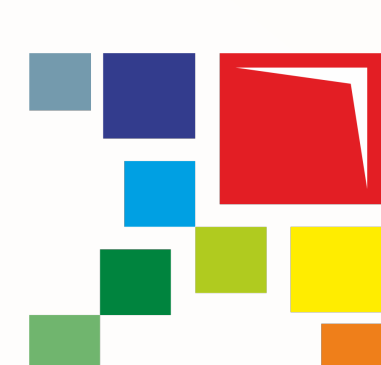
Znanstveni centar izvrsnosti
za kvantne i kompleksne sustave te
reprezentacije Liejevih algebri

Projekt KK.01.1.1.01.0004

Projekt je sufinancirala Europska unija iz
Europskog fonda za regionalni razvoj.
Sadržaj ovog seminara isključiva je
odgovornost Prirodoslovno-matematičkog
fakulteta Sveučilišta u Zagrebu te ne
predstavlja nužno stajalište Europske unije.



Europska unija
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