

**Kvantiskuma priekšrocības
fizikālie aspekti informācijas un
mērījumu tehnoloģijās
Physical aspects of quantum
advantage for information and
measurement technologies**

Trešdiena /
Wednesday
2020. gada
29. janvārī
January 29th
2020
plkst. 9.30

LU Zinātņu māja / House of
Sciences building
Jelgavas iela 3 – 105 /
Jelgavas street 3, room 105

Programma / Programm

Sekcijas vadītājs / Chair : Prof. Vjačeslavs Kaščejevs

09.30 – 10.00	Kafijas pauze / Coffee	
10.00 – 11.00	Amnon Aharony	Spin filters: writing quantum information on flying qubits
11.00 – 11.30	Sungguen Ryu	Detection of picosecond electron motion in a single-electron source
11.30 – 12.00	Aydin Deger	Determination of universal critical exponents using Lee-Yang theory
12.00 – 12.50	Pusdienas pārtraukums / Lunch	
12.50 – 13.00	Kafijas pauze / Coffee	
13.00 -14.00	Ora Entin-Wohlman	Spin-orbit interactions and topological phases
14.00 – 14.30	Vjačeslavs Kaščejevs	Anomalous localization in quantum random walks
14.30 – 15.00	Austris Akmentins	Single-electron capture in a dynamic quantum dot
15.00 – 16.00	Andris Ambainis	Algorithms for quantum computers