



# Channeling 2016

## Monday, 26 September 2016

### S1.1: Channeling & Radiations in Crystals (09:00 - 11:00)

-Conveners: Sultan Dabagov

time	[id] title	presenter
09:00	[3] The phenomena of spin rotation and depolarization of high-energy particles in crystals at Hadron Collider (LHC) and Future Circular Collider (FCC) energies and the possibility to measure the anomalous magnetic moments of short-lived particles (charm and beauty baryons) and quadrupole moment of $\Omega$ -hyperon	Prof. BARYSHEVSKY, Vladimir
09:30	[157] Correlations in thermal vibrations of crystal atoms. Effect on bremsstrahlung and dechanneling	Mr ARTRU, Xavier
09:45	[4] Quantitative theory of channeling particle diffusion in transverse energy and direct evaluation of dechanneling length	Prof. TIKHOMIROV, Victor
10:00	[77] Superposition of waves in interference field and channeling radiation	Dr BEREK, Vesna
10:15	[16] Quantum and classical effects in scattering of fast electrons by the atomic planes of ultrathin crystal	Dr SHULGA, Sergiy
10:30	[79] First observation of scattering of sub-GeV electrons in ultrathin Si crystal at planar alignment and relevance to crystal-assisted rainbow scattering	Dr TUKHFATULLIN, Timur Dr TAKABAYASHI, Yuichi
10:45	[135] Channeling and Quasi-characteristic Radiation of the Charged Particles in the Charged Axes of the Ionic Crystals with a Zinc Blende Structure	Dr MAKSYUTA, Nikolae