

# Mini-symposium

## Dynamics of crystal surfaces: old problems and new solutions.

Symposium will be held in the Institute of Physics, Polish Academy of Sciences in Warsaw, 25 June 2019. It will start at 9.30 am in room D. Symposium is devoted to some problems of the crystal growth modelling and crystal surface dynamics.

### Program

9.30 *Revisiting step instabilities via nonequilibrium thermodynamics and beyond the quasistatic approximation* Michel Jabbour, Department of Mechanics, Solids Mechanics Laboratory, École Polytechnique

10.15 *Scaling and dynamic stability of model vicinal surfaces: What has happened?* Vesselin Tonchev, Faculty of Physics, Sofia University

10.55 Coffee

11.05 *Bunching of repelling steps in 1D simulations* Filip Krzyżewski, Institute of Physics, Polish Academy of Sciences

11.45 *Ab initio atomistic thermodynamics of hot GaN surfaces* Paweł Kempisty, Institute of High Pressure Physics PAS, Warsaw, Poland, Research Institute for Applied Mechanics, Kyushu University, Fukuoka,

12.25 Coffee/lunch break

13.00 *Comments on some properties of the  $d=1$  Continuous Classical Heisenberg Model* Łukasz Turski, Center for Theoretical Physics, Polish Academy of Science

13.40 *Ab initio determination of electronic properties of polar nitride surfaces, clean and under Cs coverage and dissipation of the excess energy of the adsorbate*, Paweł Strąk, Institute of High Pressure Physics, Polish Academy of Sciences

14.20 *Interface induced decoherence of shuttled electron in silicon* Jan Krzywda Institute of Physics, Polish Academy of Sciences

*Topological electronic states on surfaces of crystals in SnTe material class - the role of atomic steps and disorder*– Rafał Rechciński Institute of Physics, Polish Academy of Sciences

### Organizers

Magdalena Załuska-Kotur, Filip Krzyżewski Institute of Physics, Polish Academy of Sciences

Vesselin Tonchev, Vesselin Tonchev, Faculty of Physics, Sofia University

Michel Jabbour, - Department of Mechanics, Solids Mechanics Laboratory, École Polytechnique