



Bogoliubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research

Dubna International Advanced School of Theoretical Physics

Helmholtz International Summer School

Dubna, Russia, **August 25-September 6, 2014**

# Lattice QCD, Hadron Structure and Hadronic Matter

## SCIENTIFIC PROGRAM:

Introduction to lattice gauge theory  
Hadron structure and spectroscopy  
Non-zero temperature and baryon number density  
Chiral perturbation theory  
External field effects  
Lattice gauge theory and nuclear theory  
Non-QCD applications of lattice gauge theory  
Simulation algorithms

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