

Helmholtz - DIAS International Summer School "Cosmology, Strings, New Physics"



Sunday, 28 August 2016 - Sunday, 10 September 2017

BLTP JINR

Scientific Programme

The programme includes lecture courses, several review lectures, and talks of the students

Physics at the LHC

Eduard Boos(SINP, Moscow)

Grand Unification and High-Scale Supersymmetry

Wilfried Buchmuller (DESY)

Advances in classical gravity

Dmitry Gal'tsov (MSU, Moscow)

Dark Matter models

Dmitry Gorbunov (INR, Moscow)

Searches for Dark Matter signals

Sergei Demidov (INR, Moscow)

Introduction to superconformal mechanics

Sergei Fedoruk (BLTP JINR, Dubna)

Dynamical equations describing early cosmologies and their inflationary solutions

Alexander Filippov (BLTP JINR, Dubna)

Introduction to entanglement entropy and holography

Dmitry Fursaev (Dubna State University & BLTP JINR, Russia)

Particle physics: present and prospects

Dmitry Kazakov (BLTP JINR, Dubna, Russia)

Quantum Universe

Viacheslav Mukhanov (Ludwig Maximilians Universität, München)

From 10D to 4D: string compactifications

Edvard Musaev (MPI, Potsdam)

Exotic models of the very early Universe

Valery Rubakov (INR Moscow)

Present status of the inflationary scenario and future prospects

Alexey Starobinsky (Landau Inst., Moscow)

Inflation and dS vacua in supergravity

Timm Wrase (ITP, TU Vienna)

Superconformal indices and Seiberg dualities

Vyacheslav P. Spiridonov (BLTP JINR)

Polarization effects and new physics searches

Oleg V. Teryaev (BLTP JINR)

Introduction to AdS QCD

Anastasia Golubtsova (BLTP JINR)