

# Advanced School on Modern Mathematical Physics

Dubna, September 7 - 17, 2008



## Lectures:

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| I. Antoniadis (CERN)<br><i>Phenomenology of superstrings and extra dimensions</i>  | V.A. Naumov (JINR, Dubna)<br><i>Neutrino mass</i>                            |
| I.Ya. Aref'eva (SMI RAS, Moscow)<br><i>Micro black holes and wormholes production at the LHC</i>                               | V.V. Nesterenko (JINR, Dubna)<br><i>Introduction to string theory</i>        |
| A.T. Filippov (JINR, Dubna)<br><i>Elementary introduction to black holes, cosmology, and waves (integrable model approach)</i> | V.A. Rubakov (INR, Moscow)<br><i>Approaches to baryogenesis</i>              |
| P. Fre (Torino University), A.S. Sorin (JINR, Dubna)<br><i>Cosmic supergravity billiards</i>                                   | M.V. Savina, S.V. Shmatov (JINR, Dubna)<br><i>Physical program of LHC</i>    |
| E.A. Ivanov (JINR, Dubna)<br><i>Supersymmetry</i>  | A.A. Starobinsky (ITP, Moscow)<br><i>Dark energy</i>                         |
| D.I. Kazakov, A.N. Baushev (JINR, Dubna)<br><i>Dark matter</i>   | A.V. Toporensky (SAI MSU, Moscow)<br><i>Introductory course on cosmology</i> |