

Foreword [32nd Winter School 'Geometry and Physics']

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FOREWORD

The 32nd Winter School “Geometry and Physics” took place at the usual place, the village Srní in the Czech Republic, in the period January 14 – January 21, 2012. The Winter School was organized by the Union of Czech Mathematicians and Physicists, together with the Charles University and the Masaryk University.

During the School, six invited lecture series were presented: *Gravity with anisotropic scaling* by **Petr Hořava**, *Hibi rings and other rings in representation theory* by **Roger Howe**, *Homogeneous Cauchy–Riemann manifolds* by **Wilhelm Kaup**, *An introduction to equivariant and motivic homotopy theory* by **Igor Kriz** and **Po Hu**, *Complexity of graph polynomials* by **Martin Loebl** and *Dirac operators in representation theory* by **Pavle Pandžić**. In the rest of the program, many further lectures, communications, and posters were presented in two sections.

The Proceedings of this School contain 10 contributions by the participants.

Editor: Martin Čadek