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Foreword [33rd Winter School 'Geometry and Physics']

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FOREWORD

The 33rd Winter School ‘Geometry and Physics’ took place at the usual place, the village Srní in the Czech Republic, in the period January 12 – January 19, 2013. 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: *On the K-theory classification of topological states of matter* by **Peter Bouwknegt**, *Projective parabolic geometries* by **David Calderbank**, *Jordan and Lie geometries* by **Wolfgang Bertram**, *Structure of manifolds with Ricci curvature bounds* by **Burkhard Wilking**, *Theta series, dual pairs and cohomology of locally symmetric spaces (after Kudla, Millson and others)* by **Jan Nekovář** and *Spinorial and complex methods in pseudo-Riemannian geometry* by **Arman Taghavi-Chabert**. In the rest of the program, many further lectures, communications, and posters were presented in two sections.

The Proceedings of this School contain 8 contributions by the participants.

Editor: Martin Čadek