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Martin Čadek
Foreword [30th Winter School 'Geometry and Physics']

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The 30th Winter School 'Geometry and Physics' took place at the usual place, the village Srní in the Czech Republic, in the period January 16 – January 23, 2010. The Winter School was organized by the Union of Czech Mathematicians and Physicists, together with the Charles University and the Masaryk University, with financial support by the International Erwin Schrödinger Institute for Mathematical Physics.

During the School, six invited lecture series were presented: *Visible actions and multiplicity-free representations* by **Toshiyuki Kobayashi**, *Lectures on nonlinear sigma-models in projective superspace* by **Sergei Kuzenko**, *Dirac cohomology of Harish-Chandra modules* by **Pavle Pandzic**, *An introduction to the Lie theory of finitary infinite matrices* by **Ivan Penkov**, *Geometry and physics of the Dirac operator* by **Jürgen Tolksdorf** and *Translation functors for real reductive groups* by **David Vogan**. In the rest of the program, many further lectures, communications, and posters were presented in two sections.

The Proceedings of this School contain 6 contributions by the participants.

Editor: Martin Čadek