Martin Čadek

Foreword [31st Winter School 'Geometry and Physics']

FOREWORD

The 31st Winter School 'Geometry and Physics' took place at the usual place, the village Srní in the Czech Republic, in the period January 15 – January 22, 2011. 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: *Ambikähler geometry in dimension four* by **David M. J. Calderbank**, *Introduction to generalized complex structures* by **Gil Cavalcanti**, *Floer theory for Lagrangian submanifolds* by **Kaoru Ono**, *Special geometries and moment maps* by **Andrew Swann**, *Introduction to graded geometry, Batalin-Vilkovisky formalism and their applications* by **Maxim Zabzine** and *Methods and phenomena in CR geometry* by **Dmitri Zaitsev**. 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