

## Contents

Foreword	vii
List of Participants	ix
Quantized Anti de Sitter spaces and non-formal deformation quantizations of symplectic symmetric spaces PIERRE BIELIAVSKY, LAURENT CLAESSENS, DANIEL STERNHEIMER, AND YANNICK VOGLAIRE	1
Group-like objects in Poisson geometry and algebra CHRISTIAN BLOHMANN AND ALAN WEINSTEIN	25
Poisson fibrations and fibered symplectic groupoids OLIVIER BRAHIC AND RUI LOJA FERNANDES	41
Generalized Kähler and hyper-Kähler quotients HENRIQUE BURSZTYN, GIL R. CAVALCANTI, AND MARCO GUALTIERI	61
Deformation quantization and reduction ALBERTO S. CATTANEO	79
Examples of higher order stable singularities of Poisson structures JEAN-PAUL DUFOUR	103
Poisson reduction and the Hamiltonian structure of the Euler-Yang-Mills equations FRANÇOIS GAY-BALMAZ AND TUDOR S. RATIU	113
Orbifold cohomology of abelian symplectic reductions and the case of weighted projective spaces TARA S. HOLM	127
Deformation of graded Poisson (Batalin-Vilkovisky) structures NORIAKI IKEDA	147
Deformation quantization of a Kähler-Poisson structure vanishing on a Levi nondegenerate hypersurface ALEXANDER V. KARABEGOV	163
A note on Poisson homogeneous spaces JIANG-HUA LU	173
Lectures on pure spinors and moment maps E. MEINRENKEN	199

Lectures on PROPs, Poisson geometry and deformation quantization S. A. MERKULOV	223
Deformation quantization modules on complex symplectic manifolds PIERRE SCHAPIRA	259
Non-commutative quasi-Hamiltonian spaces MICHEL VAN DEN BERGH	273
Locally noncommutative space-times STEFAN WALDMANN	301