

# JOURNAL OF GEOMETRY AND SYMMETRY IN PHYSICS

Volume 5

2006

Pages

---

## Contents

<i>Guest Editors' Preface</i> .....	3-4
<b>STEFAN BERCEANU</b>	
<i>A Holomorphic Representation of the Semidirect Sum of Symplectic and Heisenberg Lie Algebras</i> .....	5-13
<b>ALBERTO ENCISO AND DANIEL PERALTA-SALAS</b>	
<i>Electric Fields Created by Point Charges: Some Geometrical and Topological Results</i> .....	14-23
<b>HELGE GLÖCKNER</b>	
<i>Fundamental Problems in the Theory of Infinite-Dimensional Lie Groups</i> .....	24-35
<b>KISHORE MARATHE</b>	
<i>Chern-Simons and String Theory</i> .....	36-47
<b>KARL-HERMANN NEEB</b>	
<i>Lie Algebra Extensions and Higher Order Cocycles</i> .....	48-74
<b>ROBERTO FERREIRO PÉREZ AND JAIME MUÑOZ MASQUÉ</b>	
<i>On the First Pontryagin Form of a Surface</i> .....	75-81
<b>DAVID RADNELL AND ERIC SCHIPPERS</b>	
<i>A Complex Structure on the Moduli Space of Rigged Riemann Surfaces</i> .....	82-94
<b>MARTIN SCHLICHENMAIER</b>	
<i>Deformations of the Virasoro Algebra of Krichever- Novikov type</i> .....	95-105
<b>ARMEN SERGEEV</b>	
<i>Seiberg-Witten Equations and Pseudoholomorphic Curves</i> .....	106-117
<b>CHRISTOPH WOCKEL</b>	
<i>Smooth Extensions and Spaces of Smooth and Holomorphic Mappings</i> .....	118-126