

Contents of previous volumes

Communications in Mathematics, Vol. 21 (2013), No. 1, 93--95

Persistent URL: <http://dml.cz/dmlcz/143351>

Terms of use:

© University of Ostrava, 2013

Institute of Mathematics of the Academy of Sciences of the Czech Republic provides access to digitized documents strictly for personal use. Each copy of any part of this document must contain these *Terms of use*.



This paper has been digitized, optimized for electronic delivery and stamped with digital signature within the project *DML-CZ: The Czech Digital Mathematics Library* <http://project.dml.cz>

Contents of Previous Volumes*

No. 1, Vol. 18 (2010)

Editorial

From the Editor-in-Chief

Research papers

David Saunders: *Some geometric aspects of the calculus of variations in several independent variables*

Yong-Xin Guo, Chang Liu and Shi-Xing Liu: *Generalized Birkhoffian realization of nonholonomic systems*

Mike Crampin: *Homogeneous systems of higher-order ordinary differential equations*

Survey paper

Olga Krupková: *Geometric mechanics on nonholonomic submanifolds*

Book review

Geoff Prince: *Classical Mechanics: Hamiltonian and Lagrangian Formalism*
by Alexei Deriglazov

No. 1, Vol. 19 (2011)

Research papers

István Pink, Zsolt Rábai: *On the diophantine equation $x^2 + 5^k 17^l = y^n$*

Lorenzo Fatibene, Mauro Francaviglia: *General theory of Lie derivatives for Lorentz tensors*

Martin Swaczyna: *Several examples of nonholonomic mechanical systems*

Larry M. Bates, James M. Nester: *On D'Alembert's Principle*

*Full texts in pdf are available free on-line at <http://cm.osu.cz>.

Jing Zhang, Bingqing Ma: *Gradient estimates for a nonlinear equation $\Delta_f u + cu^{-\alpha} = 0$ on complete noncompact manifolds*

Book review

Tom Mestdag: *Geometry of Nonholonomically Constrained Systems*
by R. Cushman, H. Duistermaat and J. Śniatycki

No. 2, Vol. 19 (2011)

Geometrical aspects of variational calculus on manifolds

Guest Editor: László Kozma

Editorial

Minicourse

David J. Saunders: *Homogeneous variational problems: a minicourse*

Research papers

Lorenzo Fatibene, Mauro Francaviglia, Silvio Mercadante: *About Boundary Terms in Higher Order Theories*

Zoltán Muzsnay, Péter T. Nagy: *Tangent Lie algebras to the holonomy group of a Finsler manifold*

József Szilasi, Anna Tóth: *Conformal vector fields on Finsler manifolds*

Monika Havelková: *A geometric analysis of dynamical systems with singular Lagrangians*

Włodzimierz M. Tulczyjew: *Variational formulations I: Statics of mechanical systems.*

Book review

Jaroslav Dittrich: *Mathematical results in quantum physics edited by P. Exner*

No. 1, Vol. 20 (2012)

Guest editor: Marcella Palese

Editorial

Research papers

L. Fatibene, M. Francaviglia, S. Garruto: *Do Barbero-Immirzi connections exist in different dimensions and signatures?*

M. Francaviglia, M. Palese, E. Winterroth: *Locally variational invariant field equations and global currents: Chern-Simons theories*

Monika Havelková: *Symmetries of a dynamical system represented by singular Lagrangians*

Zoltán Muzsnay, Péter T. Nagy: *Witt algebra and the curvature of the Heisenberg group*

Olga Rossi, Jana Musilová: *On the inverse variational problem in nonholonomic mechanics*

David J. Saunders: *Projective metrization in Finsler geometry*

Conference announcements

No. 2, Vol. 20 (2012)

Research papers

Fa-en Wu, Xin-nuan Zhao: *A New Variational Characterization Of Compact Conformally Flat 4-Manifolds*

Florian Luca: *On a problem of Bednarek*

Hemar Godinho, Diego Marques, Alain Togbe: *On the Diophantine equation $x^2 + 2^\alpha 5^\beta 17^\gamma = y^n$*

Emanuel Lopez, Alberto Molgado, Jose A. Vallejo: *The principle of stationary action in the calculus of variations*

Elisabeth Remm: *Associative and Lie deformations of Poisson algebras*

Alexandru Oană, Mircea Neagu: *Distinguished Riemann-Hamilton geometry in the polymomentum electrodynamics*

Conference announcements