

Contents of Previous Volumes

Communications in Mathematics, Vol. 23 (2015), No. 2, 173–177

Persistent URL: <http://dml.cz/dmlcz/144806>

Terms of use:

© University of Ostrava, 2015

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



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

No. 1, Vol. 21 (2013)

Research papers

Thomas Friedrich: *Cocalibrated G_2 -manifolds with Ricci flat characteristic connection*

Junchao Wei: *Almost Abelian rings*

Bingqing Ma, Guangyue Huang: *Eigenvalue relationships between Laplacians of constant mean curvature hypersurfaces in \mathbb{S}^{n+1}*

Johannes Schleisnitz: *Diophantine Approximation and special Liouville numbers*

Mileva Prvanović: *The conformal change of the metric of an almost Hermitian manifold applied to the antiholomorphic curvature tensor*

Conference announcements

Contents of previous Volumes

No. 2, Vol. 21 (2013)**Research papers**

Johanna Pék: *Structure equations on generalized Finsler manifolds*

Ross M. Adams, Rory Biggs, Claudiu C. Remsing: *Control Systems on the Orthogonal Group $SO(4)$*

Tadeusz Pezda: *On some issues concerning polynomial cycles*

Stephen Bruce Sontz: *A Reproducing Kernel and Toeplitz Operators in the Quantum Plane*

Serge Preston: *Supplementary balance laws for Cattaneo heat propagation*

Susil Kumar Jena: *Method of infinite ascent applied on $-(2^p \cdot A^6) + B^3 = C^2$*

Erratum**Contents of previous Volumes****No. 1, Vol. 22 (2014)****Research papers**

Satish Shukla: *Fixed point theorems of G -fuzzy contractions in fuzzy metric spaces endowed with a graph*

Xuerong Qi, Linfen Cao, Xingxiao Li: *New hyper-Kähler structures on tangent bundles*

Benjamin Cahen: *Stratonovich-Weyl correspondence for the Jacobi group*

Florian Luca, Volker Ziegler: *A note on the number of S -Diophantine quadruples*

Albo Carlos Cavalheiro: *Existence of entropy solutions for degenerate quasilinear elliptic equations in L^1*

Werner Georg Nowak: *Lower bounds for simultaneous Diophantine approximation constants*

Karl Dilcher, Larry Ericksen: *Reducibility and irreducibility of Stern $(0, 1)$ -polynomials*

Contents of previous Volumes**No. 2, Vol. 22 (2014)****Research papers**

Silvestru Sever Dragomir: *Bounds for Convex Functions of Čebyšev Functional Via Sonin's Identity with Applications*

Mikihito Hirabayashi: *A determinant formula for the relative class number of an imaginary abelian number field*

Benjamin Küster: *Discontinuity of the Fuglede-Kadison determinant on a group von Neumann algebra*

Reinhardt Euler, Luis H. Gallardo, Florian Luca: *On a binary recurrent sequence of polynomials*

Michal Čech, Jana Musilová: *Symmetries and currents in nonholonomic mechanics*

Josua Groeger: *Super Wilson Loops and Holonomy on Supermanifolds*

Contents of previous Volumes

No. 1, Vol. 23 (2015)

Research papers

Andreas Thom: *A note on normal generation and generation of groups*

Orhan Gurgun, Sait Halicioglu and Burcu Ungor: *A subclass of strongly clean rings*

Albo Carlos Cavalheiro: *Existence of solutions for Navier problems with degenerate nonlinear elliptic equations*

Anass Ourraoui: *On a class of nonlocal problem involving a critical exponent*

Cyriaque Atindogbé and Hans Tetsing Fotsing: *Newton transformations on null hypersurfaces*

Xi Guo and Lan Wu: *The gap theorems for some extremal submanifolds in a unit sphere*

Contents of previous Volumes