

1. Record Nr.	UNINA9910778811203321
Titolo	Recent progress in differential geometry and its related fields [[electronic resource]] : proceedings of the 2nd International Colloquium on Differential Geometry and Its Related Fields, Veliko Tarnovo, Bulgaria, 6-10 September, 2010 // editors, Toshiaki Adachi, Hideya Hashimoto, Milen J. Hristov
Pubbl/distr/stampa	Hackensack, N.J., : World Scientific, 2012
ISBN	1-280-37558-2 9786613555403 981-4355-47-X
Descrizione fisica	1 online resource (207 p.)
Altri autori (Persone)	AdachiToshiaki HashimotoHideya HristovMilen Y
Disciplina	516.36
Soggetti	Geometry, Differential
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	8.1. Case of $Sp(3)/(U(1) \times U(1) \times Sp(1))$ 8.2. Case of $Sp(4)/(U(1) \times U(1) \times Sp(2))$; 8.3. Case of $Sp(4)/(U(2) \times U(1) \times Sp(1))$; Acknowledgments; References; On G -invariants of curves in purely imaginary octonions Misa OHASHI; 1. Introduction; 2. Preliminaries; 3. G -congruence theorem of curves in $Im C$; 3.1. G -frame field along a curve; 3.2. G -invariants; 3.3. G -congruence theorem; 4. Curves in 3-dimensional Euclidean space $V \quad Im C$; 5. Curves in 4-dimensional Euclidean space $V \quad Im C$; References; Magnetic Jacobi fields for K hler magnetic fields Toshiaki ADACHI; 1. Introduction 2. Magnetic exponential maps3. Magnetic Jacobi fields; 4. Magnetic conjugate points on complex space forms; 5. Comparison theorems on magnetic Jacobi fields; References; Geometry for q -exponential families Hiroshi MATSUZOE and Atsumi OHARA; Introduction; 1. Preliminaries; 1.1. Statistical models; 1.2. Statistical manifolds; 1.3. Generalized conformal relations on statistical manifolds; 2. Geometry for q -exponential families; 2.1. The q -escort probability and the q -

expectation; 2.2. The q-exponential family; 2.3. Geometry for q-exponential families; 3. An application to statistical inferences
3.1. Generalization of independence
3.2. Geometry for q-likelihood estimators; Acknowledgment; References; Sasakian magnetic fields on homogeneous real hypersurfaces in a complex hyperbolic space Tuya BAO; 1. Introduction; 2. Kahler and Sasakian magnetic fields; 3. Real hypersurfaces in a complex hyperbolic space; 4. Circles and curves of order two; 5. Circular trajectories for Sasakian magnetic fields; 6. Characterization of hypersurfaces of type (A); 7. Extrinsic shapes of trajectories; 8. Asymptotic behaviors of circular trajectories; 9. Lengths of circular trajectories; References

TYZ expansions for some rotation invariant Kahler metrics Todor GRAMCHEV and Andrea LOI
1. Introduction; 2. On the remainder term for the cylindrical metric on \mathbb{C} ; 3. Representation of Kempf's distortion function for the Kepler manifold; 4. TYZ expansion for the Kepler manifold; Acknowledgments; References; Kershner's tilings of type 6 by congruent pentagons are not Dirichlet
Atsushi KUBOTA and Toshiaki ADACHI; 1. Introduction; 2. Kershner's tilings of type 6; 3. The Dirichlet property of Kershner's tilings of type 6; 4. Tessellations of type 6 by congruent pentagons; References

Eleven classes of almost paracontact manifolds with semi-Riemannian metric of $(n + 1, n)$ Galia NAKOVA and Simeon ZAMKOVY

Sommario/riassunto

This volume contains the contributions by the main participants of the 2nd International Colloquium on Differential Geometry and its Related Fields (ICDG2010), held in Veliko Tarnovo, Bulgaria to exchange information on current topics in differential geometry, information geometry and applications. These contributions from active specialists in differential geometry provide significant information for research which cover geometric structures, concrete Lie group theory and information geometry. This volume is invaluable not only for researchers in this special area but also for those who are i
