



CHAPMAN
UNIVERSITY

SCHMID COLLEGE OF SCIENCE
AND TECHNOLOGY

***Workshop on Results in Mathematics and Physics
obtained by Methods of Hypercomplex Analysis***

Organized by the Center of Excellence in Complex and Hypercomplex Analysis

November 7 - November 11, 2013

Sandhu Conference Center



WORKSHOP SCHEDULE

Thursday November 7th 2013

9:40am-10:00am Opening Remarks
Daniele Struppa, Chapman University

10:00am-10:50am Daniele Struppa, Chapman University
Title: "Corona questions in the hyperholomorphic setting"

10:50am-11:00am Discussion Session

11:00am-11:50am Michael Shapiro, Instituto Politecnico Nacional, Mexico
Title: "Several complex variables as they are seen from quaternionic and Clifford analysis"

11:50am-12:00pm Discussion Session

12:00pm-1:45pm Lunch Break

1:45pm-2:35pm Craig Nolder, Florida State University
Title: "Compactifications of quadratic spaces and algebras"

2:35pm-2:45pm Discussion Session

2:45pm-3:35pm Joao Morais, Universidade de Aveiro, Portugal
Title: "Quaternionic Zernike Spherical Polynomials"

3:35pm-3:45pm Discussion Session

3:45pm-5:00pm Math Seminar

Friday November 8th 2013

8:00am-6:00pm Trip to Los Angeles

6:30pm-8:30pm Dinner

Saturday November 9th 2013

10:00am-10:50am Elena Luna Elizarraras, Instituto Politecnico Nacional, Mexico
Title: "On the hyperbolic angles and a new conformality in \mathbb{R}^4 "

10:50am-11:00am Discussion Session

11:00am-11:50am Thomas Hempfling
Title: "Recent Trends in Publishing"

11:50am-12:00pm Discussion Session

12:00pm-1:45pm Lunch

1:45pm-2:35pm Matvei Libine, Indiana University Bloomington
Title: "Feynman Diagrams and Quaternionic Analysis"

2:35pm-2:45pm Discussion Session

2:45pm-3:35pm Dominic Rochon, Université du Québec à Trois-Rivières, Canada
Title: "The Bicomplex Quantum Hydrogen-type Formalism"

3:35pm-5:00pm Discussion Session

Sunday November 10th 2013

10:00am-10:50am Lander Cnudde, Universiteit Gent, Belgium
Title: "Algebraic approach to slice monogenic functions"

10:50am-11:00am Discussion Session

11:00am-11:50am Graziano Gentili, Universita di Firenze, Italy
Title: "Ideals of regular functions of a quaternionic variable"

12:50pm-12:00pm Discussion Session

12:00pm-1:45pm Lunch

1:45pm-2:35pm Mihaela Vajiac, Chapman University
Title: "Multicomplex Differential Geometry"

2:35pm-2:45pm Discussion Session

2:45pm-3:35pm Adrian Vajiac, Chapman University
Title: "Equivariant Localization and Multicomplex Manifolds"

3:35pm-5:00pm Discussion Session

Monday November 11th 2013

9:00am-9:50am Irene Sabadini, Politecnico di Milano, Italy
Title: "Recent advances in quaternionic Schur analysis I"

9:50am-10:00am Discussion Session

10:00am-10:50am Daniel Alpay, Ben-Gurion University of the Negev, Israel
Title: "Recent advances in quaternionic Schur analysis II"

10:50am-11:00am Discussion Session

11:00am-11:50am Fabrizio Colombo, Politecnico di Milano, Italy
Title: "Recent Results on the Slice Hyperholomorphic Functional Calculi"

11:50am-12:00pm Discussion Session

12:00pm-2:00pm Lunch

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safety Office (714) 997-6763
Website: www.chapman.edu

