

Workshop on Solitons: Integrability, Duality and Applications (April 17-20, 2017)

Monday, 17 April 2017

09:30-10:15 REGISTRATION

10:15-10:30 WELCOME

10:30-11:10 Paul Sutcliffe (Durham University, England)
Knots and Vortices

11:10-11:50 Theodora Ioannidou (Aristotle University at Thessaloniki, Greece)
Discrete Non-linear Schrödinger equation

11:50-12:20 Coffee

12:20-13:00 Fidel Schaposnik (La Plata University, Argentina)
Some new results for diverse fermionic and gauge field models in $d=3$ dimensions

13:00-13:40 Marco Kneipp (Universidade Federal de Santa Catarina, Brazil)
Some connections between BPS $Z(N)$ strings, monopoles and Affine Toda Field Theories

13:40-15:30 Lunch

15:30-16:10 Partha Guha (SN Bose Center Kolkata, India)
Deformation aspects of integrable PDEs

16:10-16:50 Árpád Lukács (TU Delft, The Netherlands)
Stabilisation of semilocal strings by dark scalar condensates

16:50 - 17:20 Coffee

17:20-18:00 Kouichi Toda (Toyama Prefectural University, Japan)
Geostrophic regimes, intermediate solitary vortices and Jovian eddies

18:00-18:40 Alexis Roa Aguirre (Universidade Federal de Itajubá, Brazil)
Dynamical Defects in Integrable Field Theories

Tuesday, 18 April 2017

- 10:30-11:10 Peter Forgacs (University Tours, France & Wigner RCP, Hungary)
Gravitational breathers (geons) in asymptotically anti deSitter space-times
- 11:10-11:50 Stefano Bolognesi (University of Pisa, Italy)
Holography, Skyrmions and Nuclei
- 11:50-12:20 Coffee
- 12:20-13:00 Jutta Kunz (University of Oldenburg, Germany)
EMCS solitons
- 13:00-13:40 Christoph Adam (University of Santiago de Compostela, Spain)
Hairy black holes in general Skyrme models
- 13:40-15:30 Lunch
- 15:30-16:10 Andrzej Wereszczynski (Jagiellonian University Krakow, Poland)
BPS submodels of the Skyrme model
- 16:10-16:50 Carlos Naya (Durham University, England)
Vector mesons and the Skyrme model
- 16:50 - 17:20 Coffee
- 17:20-18:00 Gianni Tallarita (Universidad Adolfo Ibáñez, Chile)
A simple model for Non-Abelian Solitons
- 18:00-18:40 Stephen Flood (University of Leeds, England)
Chern-Simons Deformation of Vortices on Compact Domains

Wednesday, 19 April 2017

- 10:00-10:30 *LAUDATIO for Luiz A. Ferreira*
- Gabriel Luchini (UFES, Brazil)
Wojtek J. Zakrzewski (Durham University, UK)
Abraham H. Zimerman (IFT-UNESP, Brazil)
- 10:30-11:10 Nobuyuki Sawado (Tokyo University of Science, Japan)
Fermions on the extended Skyrme-Faddeev Hopfions
- 11:10-11:40 Coffee

11:40 - 12:20 David Foster (Bristol University, England)
The decay of Hopf solitons in the Skyrme model

12:20-13:00 Jose Francisco Gomes (IFT-UNESP, Brazil)
Miura & Bäcklund Transformation for KdV and mKdV Hierarchies

13:00-14:00 Lunch

14:00-15:00 IFT-Colloquium

15:00-19:30 Free

19:30-.... Conference & Birthday Dinner

Thursday, 20 April 2017

10:30-11:10 Steffen Krusch (University of Kent, Canterbury, England)
Isospinning Skyrmions

11:10-11:50 Manu Paranjape (University of Montreal, Canada)
Topological Solitons and Induced False Vacuum Decay

11:50-12:20 Coffee

12:20-13:00 Pawel Klimas (Universidade Federal de Santa Catarina, Brazil)
Compact solutions in the CPN type models

13:00-14:30 Lunch

14:30-15:30 SHORT TALKS

14:30-14:45 Yuki Amari (Tokyo University of Science, Japan)
Classical solutions in the F_2 non linear sigma model

14:45-15:00 Floris ter-Braak (Durham University, England)
Some aspects of the mRLW equation and quasi-integrability

15:00-15:15 Gustavo Moreira Simões (UFF, Brazil)
*Normal and hybrid mesonic states in $SU(N)$ to $Z(N)$
SSB Yang-Mills-Higgs effective models*

15:15-15:30 Adalto Rodrigues Gomes dos Santos (UFMA, Brazil)
Suppression of two-bounce windows in kink-antikink collisions

15:30-16:30 Poster session/Coffee

Rodolfo Alvan Casana Sifuentes (UFMA, Brazil)
Self-dual configurations in Abelian Higgs models with k -generalized gauge field dynamics

Ivan Antonio Cardenas Munoz (Universidad de Sonora, Mexico)
Variation of the fine structure constant

Ana Lúcia Retore (IFT-UNESP, Brazil)
Construction of the Bäcklund transformations for the $mKdV$ hierarchy

Luís Rodolfo Santos Filho (CBPF Rio, Brazil)
About Kerr-Newman Solutions and Electrons Field

Nathaly Infantini Spano (IFT-UNESP, Brazil)
The sinh-Gordon defect matrix generalized for n defects

Harold Sócrates Blas Achic (UFMT, Brazil)
Quasi-integrable non-linear Schrödinger models, infinite towers of exactly conserved charges and bright solitons

Fabiano de Carvalho Simas (UFMA, Brazil)
Degenerate vacua to vacuumless model and $K\bar{K}$ collisions

Masaya Iida, Yuki Amari, Nobuyuki Sawado
Fermions coupled with vortex skyrmion solutions

END OF WORKSHOP

More information: <http://www.ictp-saifr.org/soliton2017>