

Dipartimento di Matematica,
Università di Genova

Christmas Workshop on Moduli Spaces and Integrable Systems

December 18-20, 2014

Sponsored by:

SISSA, Trieste

Università di Genova, Dipartimento di Matematica

Université de Bourgogne, Institut de Mathématiques de Bourgogne, Dijon

Organized by C. Bartocci, U. Bruzzo, P. Rossi

Programme

Thursday December 18

9:30: Gathering

10:00 – 10:45 T. Matteini, *Lagrangian fibrations in Prym varieties*

10:45 – 11:30 N. Kitanine, *Form factor approach to correlation functions in critical quantum integrable systems*

11:30 Break

12:00 – 12:45 M. Pedroni, *Topological selection in stratified fluid: an example from air-water systems*

LUNCH

14:30 – 15:15, B. Graña Otero, *Special metrics in semistable Higgs G -bundles*

15:15 – 16:00 K. Kosłowski, *Recent development and the large N analysis of correlation functions in the quantum separation of variables method*

16:00 Break

16:30 – 17:15 J. Scalise, *Symplectic bundles and ADHM data*

Friday December 19

10:00 – 10:45 G. Sanna, *Low charge instantons on the Fano threefold Y_5* .

10:45 – 11:30 A. Buryak, *Double ramifications cycles and integrable hierarchies*

11:30 Break

12:00 – 12:45 F. Perroni, *Moduli spaces of curves with symmetries*

LUNCH

14:30 – 15:15 G. Ortenzi, *Two-fluid models in a horizontal channel*

15:15 – 16:00 V. Rubtsov, *Quantization of Poisson structures on Painlevé monodromy varieties*

16:00 Break

16:30 – 17:15 C. Di Natale, *Grassmannians and period mappings in derived algebraic geometry*

17:15 – 18:00 V. Lanza, *Hilbert schemes of points of the total space of $\mathcal{O}_{\mathbb{P}^1}(-n)$ and quiver varieties*

Saturday December 20

9:30 – 10:15 A. Rizzardo, *An example of a non-Fourier-Mukai functor between derived categories of coherent sheaves*

10:15 – 11:00 M. Cafasso, *Topological tau functions and block Toeplitz determinants*

11:00 Break

11:30 – 12:15 L. Cirio, *A categorification of infinitesimal braidings and of Casimir-Lie algebras*

12:15 – 13:00 P. Lorenzoni, *Hamiltonian operators of Dubrovin-Novikov type in 2D*