

## The 5th workshop "Complex Geometry and Lie Groups"

June 11-15, 2018, Florence

### PROGRAM

#### Monday, 11

09:00-10:00 REGISTRATION; 10:00-10:15 Opening Address

10:15-11:15 Josef Dorfmeister\* : *Surface classes, generalized Gauss maps, and harmonic maps*

11:30-12:30 Yat Sun Poon\* : *Schouten algebra of holomorphic Poisson cohomology on nilmanifolds*

12:30-14:00 Lunch Break

14:00-15:00 Daniele Angella\* : *Isometric immersions of locally conformally Kähler manifolds*

15:15-16:15 Tommaso Pacini\* : *The complex Lie group of totally real submanifolds*

16:15-16:45 Coffee Break

16:45-17:30 Florin Belgun : *Convexity for locally conformally symplectic manifolds*

17:45-18:30 Hisashi Kasuya : *Techniques of constructions of variations of mixed Hodge structures*

#### Tuesday, 12

09:00-10:00 Martin Guest\* : *The enhanced Coxeter Plane - an application of integrable systems to Lie groups*

10:15-11:15 Takuro Mochizuki\* : *Periodic monopoles and difference modules*

11:30-12:30 Yusuke Sakane\* : *Invariant Einstein metrics on Stiefel manifolds*

12:30-14:00 Lunch Break

14:00-15:00 Uwe Semmelmann\* : *Killing tensors on Riemannian manifolds*

15:15-16:15 Luis Ugarte\* : *The Hull-Strominger system and holomorphic deformations*

16:15-16:45 Coffee Break

16:45-17:15 Satoshi Nakamura : *Generalized Kähler Einstein metrics and uniform stability for toric Fano manifolds*

17:25-17:55 Homare Tadano : *Myers-Type theorems, diameter bounds, and gap theorems for Sasaki manifolds*

18:05-18:35 Federico A. Rossi : *Construction of nice nilpotent Lie algebras and Einstein metrics*

#### Wednesday, 13

09:00-09:45 Ryosuke Takahashi : *The inverse Monge-Ampère flow and applications to Kähler-Einstein metrics*

10:00-10:45 Marcos Origlia : *Vaisman structures on solomanifolds*

11:00-11:30 Alexandra Otiman : *Cohomology of Oeljeklaus-Toma manifolds*

11:40-12:10 Nicoletta Tardini : *Cohomology groups on complex non-Kähler manifolds*

12:10-14:00 *Lunch Break*

*Excursion in the afternoon*

#### **Thursday, 14**

09:00-10:00 Jun-Muk Hwang\* : *Rigidity of Legendrian singularities*

10:15-11:15 Yoshinori Namikawa\* : *Symplectic singularities and nilpotent orbits*

11:30-12:30 Vicente Cortés\* : *Quaternionic Kähler manifolds of co-homogeneity one*

12:30-14:00 *Lunch Break*

14:00-15:00 Yoshihiro Ohnita\* : *Lagrangian Geometry of the Gauss images of isoparametric hypersurfaces in spheres*

15:15-16:15 Ryoichi Kobayashi\* : *Holomorphic curves in compact complex parallelizable manifolds  $\Gamma \backslash \mathrm{SL}(2, \mathbf{C})$*

16:15-16:45 *Coffee Break*

16:45-17:30 Aleksandra Borowka : *Cones and generalized Feix-Kaledin construction*

17:45-18:30 Yoshinori Hashimoto : *Twisted constant scalar curvature Kähler metrics and a continuity method in Kähler geometry*

#### **Friday, 15**

09:00-09:45 Takao Akahori : *CR invariants and Hamiltonian flows*

10:00-10:45 Rebecca Glover : *Lagrangian-type submanifolds of  $G_2$  and  $\mathrm{Spin}(7)$  manifolds*

11:00-12:00 Luigi Verdiani\* : *Invariant metrics on co-homogeneity one Riemannian manifolds*

12:00-12:15 *Closing Address*

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*Workshop Organizers: Anna Fino, Ryushi Goto, Keizo Hasegawa, Fabio Podestá, Massimiliano Pontecorvo;  
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