

# Workshop on Differential Geometry, Gwangju-2017

Mar. 31(Fri) – Apr. 1(Sat), 2017

Department of Mathematics, Chonnam National University

## Speakers:

- Makoto Kimura (Ibaraki University, Japan)
- Hiroshi Tamaru (Hiroshima University, Japan)
- Jong Taek Cho (Chonnam National University, Korea)
- Sun Hyang Chun (Chosun University, Korea)
- Seungsu Hwang (Chung-Ang University, Korea)
- Jinhong Kim (Chosun University, Korea)
- Youngju Kim (Konkuk University, Korea)
- Seong-Hun Paeng (Konkuk University, Korea)
- Gabjin Yun (Myong Ji University, Korea)

## Program:

Mar. 31(Fri) [Lecture Room 310, Math Dept.]

(Chair: Hwang)

**10:00-10:40 Jong Taek Cho:** Pseudo-Hermitian CR structure on real hypersurfaces of Kähler manifolds

(10min. break)

**10:50-11:40 Makoto Kimura:** Twistor space of complex 2-plane Grassmannian and Hopf hypersurfaces in non-flat complex space forms

**12:00-13:30 (Lunch)**

(Chair: J. Kim)

**13:30-14:20 Hiroshi Tamaru:** Ricci soliton and contact homogeneous hypersurfaces in noncompact symmetric spaces

(10min. break)

**14:30-15:10 Gabjin Yun:** Rigidity of Ricci solitons with weakly harmonic Weyl tensors

**15:10-15:40** photo & break

**(Chair: Yun)**

**15:40-16:20 Jinhong Kim:** LVM, LVMB, and transverse Kähler foliations

(10min. break)

**16:30-17:10 Seong-Hun Paeng:** Riemannian metric and stochastic process

(10min. break)

**17:20-18:00 Seungsu Hwang:** Besse conjecture with vanishing conditions of the Weyl tensor

**18:30-20:00 (Banquet: Arirang House)**

**Apr. 1(Sat) [Lecture Room 310, Math Dept.]**

**(Chair: Cho)**

**10:00-10:40 Youngju Kim:** Parabolic quasiconformal conjugacy classes in the Heisenberg group

(10min. break)

**10:50-11:30 Sun Hyang Chun:** Unit tangent sphere bundles with the Reeb flow invariant Ricci operator

**12:00-13:30 (Lunch)**

**13:30-18:00** Discussions