

The 16th International Workshop on Differential Geometry

and The 5th KNUGRG-OCAMI Differential Geometry Workshop

- Date : 31(Wed) October - 3(Sat) November, 2012
- Place : Faculty Seminar Room #219, College of Natural Sciences
Kyungpook National University, Daegu 702-701, Korea

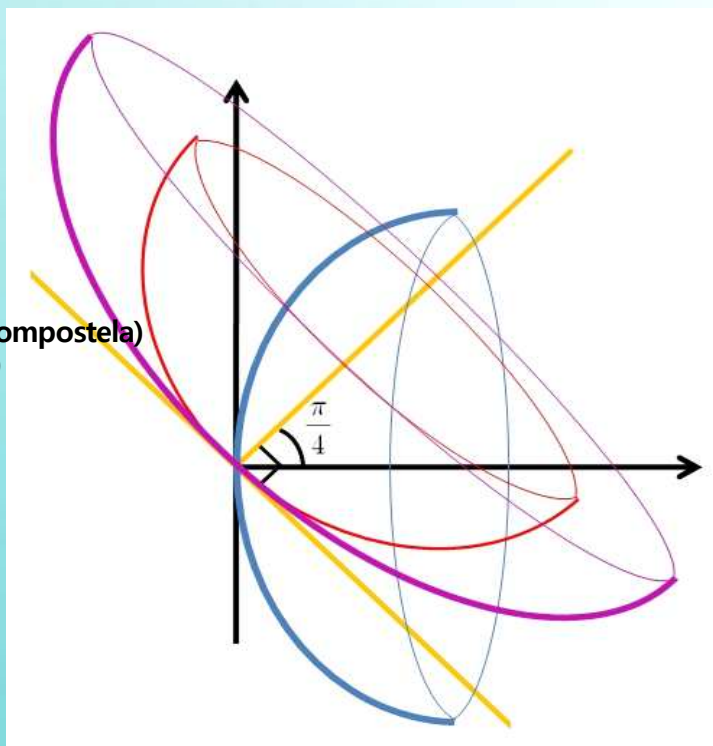
■ Organizing Committee

- Prof. Young Jin Suh (Kyungpook Nat'l Univ.)
- Prof. Jürgen Berndt (Kings College London)
- Prof. Yoshihiro Ohnita (Osaka City Univ. & OCAMI)
- Prof. Byung Hak Kim (Kyung Hee Univ.)
- Dr. Hyunjin Lee (Kyungpook Nat'l Univ.)

■ Invited Speakers

- Prof. Jürgen Berndt (King's College of London)
- Prof. Jose Carlos Díaz-Ramos (Univ. of Santiago de Compostela)
- Prof. Óscar Jesus Garay (Univ. of the Basque Country)
- Prof. Makoto Kimura (Ibaraki Univ.)
- Prof. Reiko Miyaoka (Tohoku Univ.)
- Prof. Yoshihiro Ohnita (Osaka City Univ. & OCAMI)
- Prof. Juan de Dios Pérez (Univ. of Granada)
- Prof. Takashi Sakai (Tokyo Metropolitan Univ.)
- Prof. Makiko Sumi Tanaka (Tokyo Univ. of Science)
- Prof. Jiazuo Zhou (Southwest Univ.)
- Prof. Yong Seung Cho (Ewha Womans Univ.)
- Prof. Sung-Eun Koh (Konkuk Univ.)
- Prof. Joingil Park (Seoul Nat'l Univ.)
- Prof. Seung Dal Jung (Jeju Nat'l Univ.)
- Prof. Sungho Park (Hankuk Univ. of Foreign Studies)
- Prof. Keomkyo Seo (Sookmyung Women's Univ.)
- Dr. Hyunsuk Kang (KIAS)
- Dr. Hojoo Lee (KIAS)
- Dr. Imsoon Jeong (Kyungpook Nat'l Univ.)
- Dr. Hyunjin Lee (Kyungpook Nat'l Univ.)

- Organized by
National Institute for Mathematical Sciences
& Grassmann Research Group



Supported by
National Institute for Mathematical Sciences (NIMS)
& National Research Foundation of Korea

1 November (Thursday), 2012

09:00-11:00

Chair Professor Yoshihiro Ohnita

09:00-10:00 **Takashi Sakai** (Tokyo Metropolitan University, Japan)

Antipodal structure of the intersection of real forms in a complex flag manifold

10:00-11:00 **Jiazuo Zhou** (Southwest University, China)

To Be Announced

11:00-12:30

Chair Professor Byung Hak Kim

11:00-12:00 **Makiko Sumi Tanaka** (Tokyo University of Science, Japan)

The intersection of two real forms in Hermitian symmetric spaces of compact type

12:00-12:30 **Welcome Address (Prof. Young Jin Suh)**
& Group Photo at Natural Science Building

12:30-14:00 **Lunch**

14:00-16:15

Chair Professor Reiko Miyaoka

14:00-14:30 **Hojoo Lee** (Korea Institute for Advanced Study)

Calabi's correspondence and its generalization

14:30-15:15 **Yong Seung Cho** (Ewha Womans University)

Quantum type cohomologies on almost contact metric manifolds

15:15-16:15 **Yoshihiro Ohnita** (Osaka City University & OCAMI, Japan)

Certain compact homogeneous Lagrangian submanifolds in Hermitian symmetric spaces

16:15-18:00

Chair Professor Jong Taek Cho

16:15-17:15 **Makoto Kimura** (Ibaraki University, Japan)

Real hypersurfaces with vanishing Hopf curvature in non-flat complex space forms

17:15-18:00 **Sung-Eun Koh** (Konkuk University)

Ruled minimal surfaces in three dimensional homogeneous manifolds

2 November (Friday), 2012

09:00-10:00

Chair Professor Jürgen Berndt

09:00-10:00 **Reiko Miyaoka** (Tohoku University, Japan)

Isoparametric hypersurfaces and moment map

10:00-11:00

Chair Professor Young Jin Suh

10:00-11:00 **Jongil Park** (Seoul National University)

To Be Announced

3 November (Saturday), 2012

09:00-10:30

Chair Professor Juan de Dios Pérez

09:00-10:00 **Jürgen Berndt*** (King's College London, United Kingdom)

Young Jin Suh (Kyungpook National University)

Real hypersurfaces in the complex quadric II

10:00-10:30 **Seung Dal Jung** (Jeju National University)

Transverse Killing forms on a foliated Riemannian manifold

10:30-12:00

Chair Professor Jose Carlos Díaz-Ramos

10:30-11:30 **Óscar Jesus Garay** (University of the Basque Country, Spain)

Riemannian submanifolds shaped by the bending energy and its allies

11:30-12:00 **Keomkyo Seo** (Sookmyung Women's University)

Geometric inequalities for submanifolds with bounded mean curvature

12:00-14:00 **Lunch**

14:00-15:30

Chair Professor Jiazu Zhou

14:00-14:30 **Sungho Park** (Hankuk University of Foreign Studies)

Capillary surfaces in 3-dimensional homogeneous spaces

14:30-15:30 **Juan de Dios Pérez*** (Universidad de Granada, Spain)

Young Jin Suh (Kyungpook National University)

**Generalized Tanaka-Webster connection on real hypersurfaces
of complex projective space**

15:30-17:00

Chair Professor Óscar Jesus Garay

15:30-16:30 **Jose Carlos Díaz-Ramos** (University of Santiago de Compostela, Spain)

Polar actions on complex space forms II

16:30-17:00 **Hyungsuk Kang** (Korea Institute for Advanced Study)

Riemannian submersion and the eigenforms of the Witten Laplacian

Pre-Joint Meeting of The 16th International Workshop on Differential Geometry & Related Topics

31 October (Wednesday), 2012

11:00-12:00

Chair Professor Young Jin Suh

11:00-12:00 **Jose Carlos Diaz-Ramos** (University of Santiago de Compostela, Spain)
Polar actions on complex space forms I

12:00-14:00 **Lunch**

14:00-15:00

Chair Professor Óscar Jesus Garay

14:00-14:20 **Youngsuk Choi, Hyunjin Lee and Changhwa Woo*** (Kyungpook National University)
**Hopf hypersurfaces in complex two-plane Grassmannians
with Reeb parallel shape operator**

14:20-14:40 **Carlos J.G. Machado, Juan de Dios Pérez** (Universidad de Granada, Spain),
Imsoon Jeong* and **Young Jin Suh** (Kyungpook National University)
 **D -parallelism of normal and structure Jacobi operators for hypersurfaces
in complex two-plane Grassmannians**

14:40-15:00 **Hyunjin Lee*** and **Young Jin Suh** (Kyungpook National University)
**Some weaker condition for parallel shape operator of Hopf hypersurfaces
in complex two-plane Grassmannians**

15:00-15:15 **Break Time**

15:15-17:30

Chair Professor Jose Carlos Diaz-Ramos

15:15-16:15 **Juan de Dios Prérz*** (Universidad de Granada, Spain)
Young Jin Suh (Kyungpook National University)
**Generalized Tanaka-Webster connection on real hypersurfaces
in complex two-plane Grassmannians**

16:15-16:30 **Break Time**

16:30-17:30 **Jürgen Berndt*** (King's College London, United Kingdom)
Young Jin Suh (Kyungpook National University)
Real hypersurfaces in the complex quadric I

After Discussion

E-mail : Young Jin Suh yjsuh@knu.ac.kr

Ahram Lee loveofmylife24@hanmail.net

C.P. : Young Jin Suh +82-(0)10-9358-2637

Ahram Lee +82-(0)10-6396-2598

Fax : +82-(0)53-950-6306

Homepage : <http://webbuild.knu.ac.kr/~yjsuh/>