

The 17th International Workshop on Differential Geometry

and The 7th KNUGRG-OCAMI Differential Geometry Workshop

Date : 30(Mon.) September – 2(Wed.) October, 2013

Place : NIMS Conference Hall (3rd Floor)

463-1, Jeonmin-dong, Yuseong-gu, Daejeon, 305-011, Korea

Organizing Committee

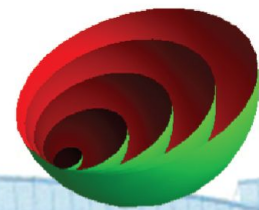
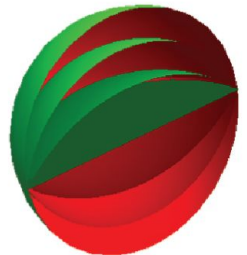
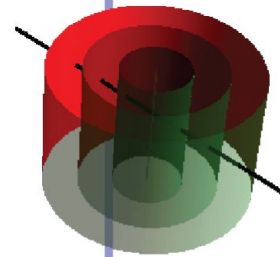
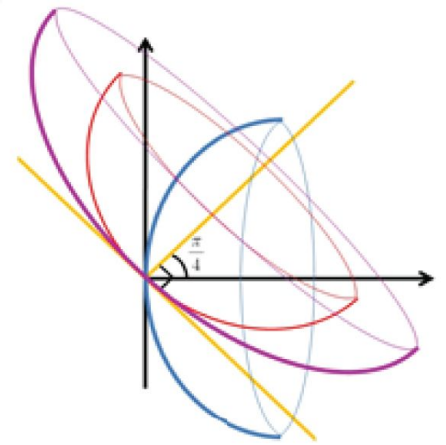
- Prof. Young Jin Suh (Kyungpook Nat'l Univ.)
- Prof. Jürgen Berndt (Kings College London)
- Prof. Yoshihiro Ohnita (Osaka City Univ. & OCAMI)
- Dr. Hyunjin Lee (Kyungpook Nat'l Univ.)

Invited Speakers

- Prof. Jürgen Berndt (King's College of London, UK)
- Prof. Juan de Dios Pérez (Univ. of Granada, Spain)
- Prof. Makiko Tanaka (Tokyo Univ. of Science, Japan)
- Prof. Hiroshi Tamaru (Hiroshima Univ., Japan)
- Prof. Yoshihiro Ohnita (Osaka City Univ., Japan)
- Prof. Reiko Miyaoka (Tohoku Univ., Japan)
- Prof. Andreas Kollross (Univ. Stuttgart, Germany)
- Prof. Yong Seung Cho (Ewha Womans Univ., Korea)
- Prof. Jongsu Kim (Sogang Univ., Korea)
- Prof. Seoung Dal Jung (Jeju Nat'l Univ., Korea)
- Prof. Jong Taek Cho (Chonnam Nat'l Univ., Korea)
- Prof. Young Jin Suh (Kyungpook Nat'l Univ., Korea)
- Dr. Takahiro Hashinaga (Hiroshima Univ., Japan)
- Dr. Miguel Dominguez-Vazquez (Univ. Santiago de Compostela, Spain)
- Dr. Hyunsuk Kang (KIAS)
- Dr. Kotaro Kawai (Tohoku Univ., Japan)
- Dr. Gyu Jong Kim (Kyungpook Nat'l Univ. Korea)
- Dr. Imsoon Jeong (Kyungpook Nat'l Univ., Korea)
- Dr. Eunmi Pak (Kyungpook Nat'l Univ., Korea)
- Dr. Changhwa Woo (Kyungpook Nat'l Univ., Korea)
- Dr. Hyunjin Lee (Kyungpook Nat'l Univ., Korea)

Organized by

National Institute for Mathematical Sciences
& Grassmann Research Group



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

30 September (Monday), 2013

09:30-12:30

Chair Professor Jürgen Berndt

09:30~09:50 **Imsoon Jeong, Hyunjin Lee and Young Jin Suh**

(Kyungpook Nat'l University, Korea)

Levi-Civita and Lie derivatives for real hypersurfaces in complex two-plane Grassmannians

09:50~10:00 **Break Time**

10:00~11:00 **Andreas Kollross** (University Stuttgart, Germany)

Polar actions on compact and non-compact symmetric spaces

11:00~11:10 **Break Time**

11:10~12:10 **Juan de Dios Pérez** (University of Granada, Spain)

Lie derivatives on real hypersurfaces in non-flat complex space forms

12:10~12:30 **Young Jin Suh** (Kyungpook University, Korea)

Opening Address & Group Photo

12:30~14:00 **Lunch Time**

14:00-15:00

Chair Professor Reiko Miyaoka

14:00~15:00 **Makiko Tanaka** (Tokyo University of Science, Japan)

Fixed point sets of isometries and the intersection of real forms in a Hermitian symmetric space of compact type

15:00-15:30

Chair Professor Byung Hak Kim

15:00~15:30 **Seung Dal Jung** (Jeju Nat'l University, Korea)

Transversally harmonic maps between foliated Riemannian manifolds

15:30~16:00 **Break Time**

16:00-17:00

Chair Professor Andreas Kollross

16:00~17:00 **Hiroshi Tamaru** (Hiroshima University, Japan)

The space of left-invariant metrics - on a generalization of Milnor frames

1 October (Tuesday), 2013

09:30-10:00

Chair Professor Makiko Tanaka

09:30~10:00 **Takahiro Hashinaga** (Hiroshima University, Japan)
On the minimality of the corresponding submanifolds to solvsolitons

10:00-11:00

Chair Professor Young Jin Suh

10:00~11:00 **Jürgen Berndt** (King's College London, UK)
Contact hypersurfaces in Kaehler manifolds I

11:00~11:30 **Break Time**

11:30-12:30

Chair Professor Yoshihiro Ohnita

11:30~12:30 **Reiko Miyaoka** (Tohoku University, Japan)
Transnormal functions and transnormal systems

12:30~14:00 **Lunch Time**

14:00-15:00

Chair Professor Jürgen Berndt

14:00~14:20 **Eunmi Pak and Young Jin Suh** (Kyungpook Nat'l University, Korea)
Parallelism on normal and structure Jacobi operators for Hopf hypersurfaces in complex two-plane Grassmannians

14:20~14:40 **Hyunjin Lee, Young Jin Suh and Changhwa Woo**
(Kyungpook Nat'l University, Korea)
Real hypersurfaces in complex two-plane Grassmannians with parallel Ricci tensor in generalized Tanaka-Webster connection

14:40~15:00 **Gyu Jong Kim, Hyunjin Lee and Young Jin Suh**
(Kyungpook Nat'l University, Korea)
Classifications of real hypersurfaces in complex two-plane Grassmannians with invariant Ricci tensor

15:00-15:30

Chair Professor Juan de Dios Pérez

15:00~15:30 **Jong Taek Cho** (Chonnam Nat'l University, Korea)
Ricci solitons in almost contact geometry

15:30~15:50 **Break Time**

15:50-16:50

Chair Professor Byung Hak Kim

15:50~16:50 **Yong Seung Cho** (Ewha Womans University, Korea)
Quantum and Floer type cohomologies on almost contact metric manifolds

16:50~17:00 **Break Time**

17:00-18:00

Chair Professor Hiroshi Tamaru

17:00~18:00 **Yoshihiro Ohnita** (Osaka City University, Japan)
On intersections of the Gauss images of isoparametric hypersurfaces

2 October (Wednesday), 2013

19:30-10:00

Chair Dr. M. Dominguez-Vazquez

09:30~10:00 **Hyunsuk Kang** (Korea Institute for Advanced Study, Korea)
Brief survey on the evolution of convex hypersurfaces by curvature functions

10:00-11:00

Chair Professor Reiko Miyaoka

10:00~11:00 **Jürgen Berndt** (King's College London, UK)
Contact hypersurfaces in Kaehler manifolds II

11:00~11:30 **Break Time**

11:30-12:30

Chair Professor Juan de Dios Pérez

11:30~12:30 **Miguel Dominguez-Vazquez** (University Santiago de Compostela, Spain)
Some interesting families of non-Hopf real hypersurfaces in complex space forms

12:30~14:00 **Lunch Time**

14:00-15:00

Chair Professor Jürgen Berndt

14:00~15:00 **Andreas Kollross** (University Stuttgart, Germany)
Nonnegatively curved homogeneous spaces

15:00-15:30

Chair Professor Hiroshi Tamaru

15:00~15:30 **Jongsu Kim** (Sogang University, Korea)
Scalar curvature decrease of some Riemannian metrics

15:30~16:00 **Break Time**

16:00-17:00

Chair Professor Yoshihiro Ohnita

16:00~17:00 **Kotaro Kawai** (Tohoku University, Japan)
Deformations of associative submanifolds in nearly parallel G_2 -manifolds

After Discussion

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