

# The 24th International Workshop on Differential Geometry of Hermitian Symmetric Spaces and Ricci Flow

& The 21st RIRCM-OCAMI Joint Differential Geometry Workshop

- On the occasion of Prof. Y. J. Suh's 70th & Prof. Y. Ohnita's 65th birthday -

- **Date:** August 27 (Sun) ~ August 29 (Tue), 2023
- **Place:** Pukyong National University (Daeyeon Campus), Busan, Republic of Korea
  - First Day (Aug. 27, Sunday): #204 Mirae Bldg.
  - Second Day (Aug. 28, Monday): #303 Dongwon Jang Bogo Hall
  - Third Day (Aug. 29, Tuesday): #7225 College of Natural Science
- **Organizing Committee**  
Changhwa Woo (Pukyong National University)  
Hyunjin Lee (Chosun University)  
Imsoon Jeong (Cheongju University)  
Juncheol Pyo (Pusan National University)  
Hiroschi Tamaru (Osaka Metropolitan University & OCAMI)  
Makiko Sumi Tanaka (Tokyo University of Science)  
Takashi Sakai (Tokyo Metropolitan University)
- **Scientific Committee**  
Young Jin Suh (Kyungpook National University & RIRCM)  
Yoshihiro Ohnita (Waseda University & OCAMI)
- **Supported by**  
NRF (National Research Foundation of Korea)  
JSPS (Japan Society for The Promotion of Science)
- **Organized by**  
RIRCM (Research Institute of Real and Complex Manifolds)  
OCAMI (Osaka Central Advanced Mathematical Institute)



## August 27 (Sunday), 2023

Place: #204 Mirae Bldg.

<b>13:40-15:45</b>	<b>Chair Prof. Changhwa Woo</b>
13:40~14:00	Opening Address [Korean side] Young Jin Suh & Jun Cheol Pyo [Japanese side] Yoshihiro Ohnita & Hiroshi Tamaru
14:00~14:45	Young Jin Suh (Kyungpook National University) Yamabe, Ricci-Bourguignon solitons in complex hyperbolic quadric and complex hyperbolic two-plane Grassmannian
<b>14:45~15:00</b>	<b>Coffee Break</b>
15:00~15:45	Yoshihiro Ohnita (Waseda University & OCAMI) Totally complex submanifolds and R-spaces
<b>15:45~16:00</b>	<b>Coffee Break</b>
<b>16:00-17:45</b>	<b>Chair Prof. Young Jin Suh</b>
16:00~16:45	Makiko Sumi Tanaka (Tokyo University of Science) Classification of maximal antipodal sets of compact symmetric spaces
<b>16:45~17:00</b>	<b>Coffee Break</b>
17:00~17:45	Keomkyo Seo (Sookmyung Women's University) A characterization of Delaunay surfaces using a one-parameter family of touching spheres
<b>17:45~18:00</b>	<b>Group Photo &amp; Dinner</b> (New Busan Raw Fish Restaurant)





## August 28 (Monday), 2023

Place: #303 Dongwon Jang Bogo Hall

<b>10:00~11:45</b>	<b>Chair Prof. Hiroshi Tamaru</b>
10:00~10:45	Jurgen Berndt (King's College London) Foliated Hopf hypersurfaces in complex hyperbolic quadrics
<b>10:45~11:00</b>	<b>Coffee Break</b>
11:00~11:45	Uday Chand De (University of Calcutta) Perfect fluid spacetimes revisited I
<b>11:45~14:00</b>	<b>Group Photo &amp; Lunch Time</b>
<b>14:00~15:40</b>	<b>Chair Prof. Jurgen Berndt</b>
14:00~14:45	Jin Hong Kim (Chosun University) On the Zariski dense orbit conjecture for regular self-maps
<b>14:45~15:00</b>	<b>Coffee Break</b>
15:00~15:20	Toru Kajigaya (Tokyo University of Science) Nonexistence of stable discrete maps into some homogeneous spaces of nonnegative curvature
15:20~15:40	Yuichiro Sato (Kogakuin University) Spatially homogeneous solutions of vacuum Einstein equations in general dimensions
<b>15:40~16:00</b>	<b>Coffee Break</b>
<b>16:00~17:45</b>	<b>Chair Prof. Yoshihiro Ohnita</b>
16:00~16:45	Krishnendu De (The University of Burdwan) Generalized Robertson-Walker spacetimes concerning gradient Ricci solitons
<b>16:45~17:00</b>	<b>Coffee Break</b>
17:00~17:45	Hiroshi Tamaru (Osaka Metropolitan University) On the moduli spaces of left-invariant Riemannian metrics on Lie groups
<b>17:45~20:00</b>	<b>Dinner</b> (Hyangraewon – Chinese Restaurant)



[Dinner]

- Aug. 27 (Sunday)  
New Busan Raw Fish Restaurant  
(Tel. 051) 625-4200
- Aug. 28 (Monday)  
Hyangraewon  
(Tel. 051) 751-0901
- Aug. 29 (Tuesday)  
Jeju Masdon-Korean BBQ  
(Tel. 051) 627-9234

## August 29 (Tuesday), 2023

Place: #7225 Natural Science Bldg.

<b>10:00-12:00</b>	<b>Chair Prof. Juncheol Pyo</b>
10:00~10:45	Uday Chand De (University of Calcutta) Perfect fluid spacetimes revisited II
<b>10:45~11:00</b>	<b>Coffee Break</b>
11:00~11:20	Krishnendu De (The University of Burdwan) Effect of projective curvature tensor in $f(R,G)$ -gravity
11:20~12:00	Min Sung Hong (Chungnam National University) A pinching theorem for free boundary cmc surfaces in a space form
<b>12:00~14:00</b>	<b>Group Photo &amp; Lunch Time</b>
<b>14:00-15:00</b>	<b>Chair Prof. Makiko Sumi Tanaka</b>
14:00~14:20	Akira Kubo (Hiroshima Institute of Technology) Cohomogeneity two actions on the complex hyperbolic plane
14:20~14:40	Juncheol Pyo (Pusan National University) Monotone property on the first eigenvalue along inverse mean curvature flow
14:40~15:00	Gyu Jong Kim (Woosuk University) Research on real hypersurfaces in complex quadric with affine Killing vector field
<b>15:00~15:20</b>	<b>Coffee Break</b>
<b>15:20-16:20</b>	<b>Chair Prof. Gyu Jong Kim</b>
15:20~15:40	Yuuki Sasaki (Tokyo College, National Institute of Technology, Hachioji) Some submanifolds of the associative Grassmann manifold
15:40~16:00	Daehwan Kim (Daegu University) Half-space theorem for a translating soliton to mean curvature flow
16:00~16:20	Hyunjin Lee (Chosun University) A classification of real hypersurfaces with parallel Ricci tensor in the complex quadric
<b>16:20~16:40</b>	<b>Coffee Break</b>
<b>16:40-17:40</b>	<b>Chair Prof. Imsoon Jeong</b>
16:40~17:00	Hiroaki Nagaya (Hiroshima University) Applications of coarse geometry in the theory of discontinuous groups
17:00~17:20	Changhwa Woo (Pukyong National University) Ruled real hypersurfaces in the complex hyperbolic quadric
17:20~17:40	Masahiro Morimoto (Tokyo Metropolitan University) Non-existence of exceptional orbits under polar actions on Hilbert spaces
<b>17:40~20:00</b>	<b>Closing Ceremony &amp; Dinner</b> (Jeju Masdon-Korean BBQ)