

# The 22nd International Workshop on Differential Geometry of Submanifolds in Symmetric Spaces & Related Problems

- **Date:** July 31 (Wed) ~ August 5 (Mon), 2019
- **Place:** Education Room & Multi-purpose Room (KNU Library, 1st floor) & RIRCM (Global Plaza #1001), Kyungpook National University, Daegu 41566, Republic of Korea
- **Organizing Committee**  
Young Jin Suh (Chair, Kyungpook Nat'l University & RIRCM, Republic of Korea)  
Yoshihiro Ohnita (co-Chair, Osaka City University & OCAMI, Japan)  
Byung Hak Kim (co-Chair, Kyung Hee University, Republic of Korea)  
Imsoon Jeong (Pai Chai University, Republic of Korea)  
Changhwa Woo (Woosuk University, Republic of Korea)
- **Secretaries**  
Hyunjin Lee (RIRCM, Republic of Korea)  
Gyu Jong Kim (Woosuk University, Republic of Korea)
- **Supported by**  
National Research Foundation of Korea  
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- **Organized by**  
Kyung Hee University  
RIRCM (Research Institute of Real and Complex Manifolds) and  
OCAMI (Osaka City University Advanced Mathematical Institute)



KyungHee University



JSPS



**July 31 (Wednesday), 2019****Place: Global Plaza (#1001)**

14:00~15:30		Chair Prof. Byung Hak Kim
14:00~14:30	Real hypersurfaces of Type B in the complex quadric Hyunjin Lee* and Young Jin Suh (Kyungpook National University, Korea)	
14:30~15:00	TBA Gyujong Kim* (Woosuk University, Korea) and Young Jin Suh (Kyungpook National University, Korea)	
15:00~15:30	Real hypersurfaces in complex Grassmannians of rank two with $Q^\perp$ -parallel Ricci tensor Hyunjin Lee, Young Jin Suh (Kyungpook National University, Korea) and Changhwa Woo* (Woosuk University, Korea)	
<b>15:30~15:45 Break Time</b>		
15:45~17:15		Chair Prof. Imsoon Jeong
15:45~16:15	TBA Byung Hak Kim (Kyung Hee University, Korea)	
16:15~16:45	Genus of a graph and its linear preserving operator LeRoy B. Beasley (Utah State University, USA) and Seok-Zun Song* (Jeju National University, Korea)	
16:45~17:15	Para-real forms of para-Hermitian symmetric spaces Kyoji Sujigoto* (Tokyo University of Science, Japan) and Takuya Shimokawa (?????)	
<b>17:15~18:00 Discussions</b>		

**August 1 (Thursday), 2019****Place: Education Room & Multi-purpose Room**

09:20~10:10		Chair Prof. Byung Hak Kim
09:20~10:00	Real hypersurfaces in the complex hyperbolic quadric and related topics Young jin Suh (Kyungpook National University, Korea)	
<b>10:00~10:10 Greeting &amp; Opening Address</b>		
10:10~12:50		Chair Prof. Yoshihiro Ohnita
10:10~11:00	On Lorentzian manifolds with a type of linear connection Uday Chand De* (University of Calcutta, India) and Young Jin Suh (Kyungpook National University, Korea)	
11:20~12:00	Real hypersurfaces in non-flat complex space forms and twistor spaces of complex 2-plane Grassmannian Makoto Kimura (Ibaraki University, China)	
12:10~12:50	Superconnections and an intrinsic Gauss-Bonnet-Chern formula for Finsler manifolds Huitao Feng* (Chern Institute of Mathematics & Nankai University, China) and Ming Li (Chongqing University of Technology, China)	
<b>12:50~13:00 Group Photos</b>		
<b>13:00~14:30 Lunch Time (Global Plaza 2<sup>nd</sup> floor, Restaurant of BIBIMGA)</b>		
14:30~15:30		Chair Prof. Jurgen Berndt
14:30~15:00	Collapsing theorem for regularized mean curvature flow and its application to Gauge theory Naoyuki Koike (Tokyo University of Science, Japan)	
15:00~15:30	Maximal antipodal sets of $G_2$ and $G_2/SO(4)$ and related geometry Makiko Tanaka* (Tokyo University of Science, Japan), Hiroyuki Tasaki (University of Tsukuba), and Osami Yasukura (University of Fukui, Japan)	
<b>15:30~15:40 Break Time</b>		
15:40~16:40		Chair Prof. Ljubica Velimirovic
15:40~16:10	Antipodal sets of generalized $s$ -manifolds Shiniji Ohno* (Nihon University, Japan), Takashi Sakai (Tokyo Metropolitan University, Japan) and Yasunori Terauchi (???)	
16:10~16:40	The Fischer-Marsden conjecture on the generalized Sasakian space forms Sudhakar Kumar Chaubey* (Shinas College of Technology, Oman) and Uday Chand De (University of Calcutta, India)	
<b>16:40~17:10 Discussions</b>		
17:10~18:00		Chair Prof. Young Jin Suh
17:10~18:00	Curvature and unknottedness Jaigyoung Choe (Korea Institute for Advanced Study, Korea)	

**August 2 (Friday), 2019****Place: Education Room & Multi-purpose Room****09:20~11:00****Chair Prof. Young Jin Suh**

09:20~10:10 Contact hypersurfaces in Hermitian symmetric spaces (I)

Jurgen Berndt (King's College London, UK)

10:20~11:00 Moment maps and isoparametric hypersurfaces in spheres – some recent results

Shinobu Fujii (Oshima College, Japan) and Hiroshi Tamaru\* (Osaka City University, Japan)

**11:00~11:10 Break Time****11:10~12:50****Chair Prof. Uday Chand De**

11:10~11:50 CR geometry on real hypersurfaces of Kahler manifolds

Jong Taek Cho (Chonnam National University, Korea)

12:00~12:50 Knot energy

Ljubica S. Velimirovic\* (University of Nis, Serbia), Marija Najdanovic (University of Pristina-Kosovska Mitrovica, Serbia), and Svetozar Rancic (University of Nis, Serbia)

**12:50~13:00 Group Photos****13:00~14:10 Lunch Time****14:10~15:10****Chair Prof. Yoshihiro Ohnita**

14:10~14:40 On Hamiltonian stable Lagrangian tori in complex hyperbolic spaces

Toru Kajigaya (Tokyo Denki University, Japan)

14:40~15:10 TBA

Takayuki Okuda (Hiroshima University, Japan)

**15:10~15:30 Break Time****15:30~16:30****Chair Prof. Huitao Feng**

15:30~16:00 Canonical form theory in symmetric spaces

Osamu Ikawa (Kyoto Institute of Technology, Japan)

16:00~16:30 Certain weakly reflective submanifolds in compact Lie groups

Taro Kimura (Tsuruoka National College of Technology, Japan)

**16:30~16:40 Break Time****16:40~18:00****Chair Prof. Jurgen Berndt**16:40~17:20 Minimal Maslov number of  $R$ -spaces canonically embedded in Einstein-Kahler  $C$ -spaces

Yoshihiro Ohnita (Osaka City University, Japan)

17:30~18:00 TBA

Seungsu Hwang (Chung-Ang University, Korea)

**August 3 (Saturday), 2019****Place: Global Plaza (#1001)****10:30~12:30 Discussions in Hermitian symmetric spaces (I)****August 5 (Monday), 2019****Place: Global Plaza (#1001)****10:30~12:30****Chair Prof. Young Jin Suh**

10:30~12:30 Contact hypersurfaces in Hermitian symmetric spaces (II)

Jurgen Berndt (King's College London, UK)

**12:30~14:00 Lunch Time****14:00~16:00 Discussions in Hermitian symmetric spaces (III)**