

**THE 10TH PACIFIC RIM GEOMETRY CONFERENCE 2011  
OSAKA-FUKUOKA, PART I (VERSION OF NOV. 25)**

**PROGRAM**

## December 1 (Thursday)

9:40-9:45 Opening Remarks

9:50-10:50 Shu-Cheng Chang (National Taiwan University, Taiwan, ROC)

“Li-Yau gradient estimate and entropy formulae for the CR heat equation in a closed pseudohermitian 3-manifold”

11:00-12:00 Carlos Olmos (National University of Cordoba, Argentina)

“Killing fields, holonomy and the index of symmetry”

LUNCH

Parallel Session

(A)

13:30-14:20 Yaroslav Bazaikin (Sobolev Institute of Mathematics, Novosibirsk, Russia)

“On  $G_2$ -holonomy metrics based on  $S^3 \times S^3$ ”

14:30-15:20 Nickolai Erokhovets (Moscow State University, Russia)

“Towards the Theory of Buchstaber Invariant”

TEA BREAK

16:00-16:30 Imsoon Jeong\*, Seonhui Kim and Young Jin Suh (Kyungpook National University, Korea) (\*: speaker)

“Real hypersurfaces in complex two-plane Grassmannians with  $\xi$ -parallel structure Jacobi operator”

16:30-17:00 Imsoon Jeong, Hyunjin Lee\* and Young Jin Suh (Kyungpook National University, Korea) (\*: speaker)

“Characterizations of Hopf hypersurfaces in complex two-plane Grassmannians related to generalized Tanaka-Webster connection”

(B)

13:30-14:20 Makiko Sumi Tanaka (Tokyo University of Science, Japan)

“Antipodal sets of compact Riemannian symmetric spaces and their applications”

14:30-15:20 Adela Mihai (University of Bucharest, Romania)

“Normal Complex Contact Metric Manifolds”

TEA BREAK

16:00-16:30 Xianfeng Wang (Nankai University, P. R. China)

“Lagrangian submanifolds in complex projective space with parallel second fundamental form”

16:30-17:00 Seonhui Kim\*, Hyunjin Lee and Young Jin Suh (Kyungpook National University, Korea) (\*: speaker)

“A new condition of real hypersurfaces in complex two-plane Grassmannians”

## December 2 (Friday)

9:50-10:50 Victor Buchstaber  
(Steklov Mathematical Institute & Moscow State University, Russia)  
“Symplectic nilmanifolds and applications”

11:00-12:00 Yael Karshon (Toronto University, Canada )  
“Counting toric actions”

LUNCH

13:30-14:20 Dmitry Gugin (Moscow State University, Russia)  
“Smith-Dold Branched Coverings and Cup-Length”

14:30-15:20 Megumi Harada (McMaster University, Canada)  
“An invitation to (Newton-)Okounkov bodies”

TEA BREAK

15:40-16:30 Qun Chen (Wuhan University, P. R. China)  
“The maximum principle and the Dirichlet problem for Dirac-harmonic maps”

16:40-17:30 Yuxin Dong (Fudan University, P. R. China)  
“Monotonicity Formulae and Holomorphicity of Harmonic Maps between  
Kähler manifolds”

18:00- Reception Party  
at the Restaurant “Whisteria”, the first floor of the Osaka City University  
Media Center

## December 3 (Saturday)

- 9:50-10:50 Kaoru Ono (Hokkaido University, Japan)  
“Lagrangian Floer theory on compact toric manifolds”
- 11:00-12:00 Yong-Geun Oh (University of Wisconsin-Madison, USA)  
“Localization of Floer homology in  $C^0$  hamiltonian topology”

GROUP PHOTO

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- 13:30-14:20 Hong Van Le (Institute of Mathematics of ASCR, Czech Republic)  
“Twisted symplectic manifolds and the associated cohomologies ”
- 14:30-15:20 Hiroshi Iriyeh (Tokyo Denki University, Japan)  
“Floer homology and Hamiltonian volume minimizing properties of real forms of complex hyperquadric”

TEA BREAK

### Parallel Session

(A)

- 15:50-16:20 Toru Kajigaya (Tohoku University, Japan)  
“Legendrian minimal submanifolds in Sasakian manifolds and its stability”
- 16:30-17:20 Hui Ma (Tsinghua University, P. R. China)  
“On Lagrangian submanifolds in complex hyperquadrics and Hamiltonian volume variational problem”
- 17:30-18:20 Taras Panov (Moscow State University, Russia)  
“Intersections of quadrics and H-minimal Lagrangian submanifolds”

(B)

- 15:50-16:20 Peng Wang (Tongji University, P. R. China)  
“Willmore two-spheres in  $S^{n+2}$  via Loop Group Theory”
- 16:30-17:20 Xiang Ma (Peking University, P. R. China)  
“The global geometry of stationary surfaces in 4-dimensional Lorentz space”
- 17:30-18:20 Emma Carberry (University of Sydney, Australia)  
“Harmonic maps, Toda frames and extended Dynkin diagrams”

## December 4 (Sunday)

9:50-10:50 Xiaobo Liu  
(University of Notre Dame, USA and Peking University, P. R. China)  
“Universal Equations for Gromov-Witten Invariants”

11:00-12:00 Hiroshi Iritani (Kyoto University, Japan)  
“Quantum cohomology and periods”

LUNCH

13:30-14:20 Siu-Cheong Lau (IPMU, Japan)  
“SYZ and mirror maps for semi-Fano toric manifolds”

14:30-15:20 Jianxun Hu (Sun Yat-sen University, P. R. China)  
“Degeneration formulae and its applications to local GW and DT invariants ”

TEA BREAK

15:40-16:30 Chin-Lung Wang (National Taiwan University, Taiwan, ROC)  
“Quantum Leray-Hirsch”

16:40-17:30 Mohammad Ghomi (Georgia Institute of Technology, USA)  
“Tangent lines, inflection points, and vertices of closed curves”

17:40-18:20 Qingchun Ji (Fudan University, P. R. China)  
“Division theorems for exact sequences”

## December 5 (Monday)

9:50-10:50 Zizhou Tang (Beijing Normal University, P. R. China)  
“Gromov-Lowson-Schoen-Yau theory and isoparametric hypersurfaces ”

11:00-12:00 Mu-Tao Wang (Columbia University, USA)  
“Mean curvature flows and isotopy problems”

LUNCH

13:30-14:20 Fuminori Nakata (Tokyo University of Science, Japan)  
“Integral transforms and the twistor theory for indefinite metrics”

14:30-15:20 Shohei Honda (Kyushu University, Japan)  
“Convergence of Lipschitz functions and a weak second differentiable structure on limit spaces”

## Poster Session and Presentation (Dec. 1- Dec. 5)

- On Dec. 1 Tatsuyoshi Hamada (Fukuoka University, Japan)  
“MathLibre: an open source project for enjoying mathematics with computer”
- Part I Makoto Narita (Okinawa National College of Technology, Japan)  
“On gravitational collapse of five dimensional triaxial Bianchi-IX spacetimes with matter”
- Part I Masashi Yasumoto (Kobe University, Japan)  
“Construction of discrete constant mean curvature surfaces”
- Part I Yuriko Umemoto (Osaka City University, Japan)  
“On the growth functions of hyperbolic Coxeter groups”
- Part I Hassanien Samah Gaber Mohamed (Kobe University, Japan)  
“Inextensible flow of spacelike and timelike curves in de Sitter space  $\mathbb{S}^{2,1}$ ”
- Part I & II Hisayoshi Muroya (OCAMI, Japan)  
“ $n$ -end catenoids of genus one”
- Part I & II Xianfeng Wang (Nankai University, P. R. China)  
“Second eigenvalue of a Jacobi operator of hypersurfaces with constant scalar curvature”
- Part I & II Ayaka Shimizu (OCAMI, Japan)  
“Region Select—a game using knot theory”

and others