

Differential Geometry and Tanaka Theory ~ Differential System and Hypersurface Theory ~

Organizers : Kazuhiro Shibuya (Hiroshima University)
Toshihiro Shoda (Saga University)

Dates : 24 January - 28 January 2011

Venue : Room 420, Research Institute for Mathematical Sciences, Kyoto University

URL : <http://extwww.cc.saga-u.ac.jp/~tshoda/rims-home-e.html>

Program

24 January 2011 (Monday)

10:00-10:10 : Opening Remarks

10:10-11:00 : Robert Bryant (MSRI)

On the affine Bonnet problem

11:10-12:00 : Ian Anderson (Utah Univ.)

Bäcklund transformations for Darboux integrable differential systems

14:00-14:50 : Nobutaka Boumuki

(Osaka City Univ. Advanced Mathematical Institute)

On relation between potentials for pluriharmonic maps and para-pluriharmonic maps

15:00-15:50 : Norio Ejiri (Meijo Univ.)

Special pseudo Kaehler metrics, signature, index on a deformation space of minimal surfaces in tori

16:10-17:00 : Mario Micallef (Univ. of Warwick)

Constant mean curvature surfaces with prescribed ideal boundary in negatively curved 3-manifolds

25 January 2011 (Tuesday)

9:30-10:20 : Takashi Okayasu (Ibaraki Univ.)

Comparison theorems for ODEs and their application to geometry of Weingarten hypersurfaces

10:30-11:20 : Yoshihisa Kitagawa (Utsunomiya Univ.)

Extrinsic diameter of immersed flat tori in the unit 3-sphere

11:30-12:20 : Igor Zelenko (Texas A & M Univ.)

On geometry and symmetries of nonholonomic distributions and curves of flags

14:00-14:50 : Takahiro Noda (Nagoya Univ./OCAMI)

Rank 2 prolongations of second order PDE and geometric singular solutions

15:00-15:50 : Jun-Muk Hwang (KIAS)

Classification of non-degenerate projective submanifolds with non-zero prolongation
16:00-17:00 : Keizo Yamaguchi (Hokkaido Univ.)
Reduction theorems in contact geometry of second order

26 January 2011 (Wednesday)

10:00-10:50 : Yu Kawakami (Kyushu Univ.)
Value distribution of the Gauss map of improper affine fronts and affine Bernstein problem
11:00-12:00 : Reiko Miyaoka (Tohoku Univ.)
Moment map of the Spin action and the Cartan Münzner polynomials
12:00- : Free discussion

18:00- : Official dinner
(18:30- Start)

27 January 2011 (Thursday)

9:30-10:20 : Atsushi Yano (Hokkaido Univ.)
Geometric characterization of Monge-Ampère equations
10:30-11:20 : Shyuichi Izumiya (Hokkaido Univ.)
The lightlike geometry of spacelike submanifolds in Lorentz-Minkowski space
11:30-11:55 : Toru Kajigaya (Tohoku Univ.)
Second variation formula and the stability of Legendrian minimal submanifolds in Sasakian manifolds
11:55-12:20 : Satoshi Ueki (Tohoku Univ.)
Research on Lagrangian intersections and leaf-wise intersections
14:00-14:50 : Atsufumi Honda (Tokyo Tech)
Isometric immersions of the hyperbolic plane into the hyperbolic space
15:00-15:50 : Mike Eastwood (Australia National Univ.)
CR geometry and conformal foliations
16:10-17:00 : Kengo Hirachi (Univ. of Tokyo)
Total Q-curvature vanishes on integrable CR manifolds

28 January 2011 (Friday)

9:30-10:20 : William Shadwick (Omega Analysis Limited)
The geometry of extreme value distributions: Part 1
10:30-11:20 : Pawel Nurowski (Univ. of Warsaw)
An analog of selfduality in dimension nine
11:30-12:20 : Tetsuya Ozawa (Meijo Univ.)
Equivalence problem of geometric structure
12:20-14:50 : Free discussion