

Submittee: Jingyi Chen

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Title: CRG Conference on Geometric Analysis

Event Type: Conference-Workshop

Location:

PIMS/UBC

Dates:

July 24 - July 28, 2017

Topic:

Curvature flows (Ricci flow, mean curvature flow, generalized Kahler-Ricci flow, prescribed curvature flow, the Einstein flow); Geometric variational problems (minimal surfaces, geometric PDEs (Hessian equations, Monge-Ampere equations, Yamabe equation, eigenvalues of Laplacian); Analytic/Topological structure of spaces (characteristic classes, spaces with Ricci lower bounds, special curvature properties)

Methodology:

one hour lectures were given by the speakers

Objectives Achieved:

Important recent advances in the field were reported at the meeting and followed by many discussions

Scientific Highlights:

Richard Bamler and Bruce Kleiner talked about their solution to a conjecture of Perelman on weak solutions of 3d-Ricci flow. Weiping Zhang presented a proof of Chern's conjecture that the Euler characteristic of a closed affine manifold is zero. Aaron Naber discussed his work with Cheeger and Jiang on structure of the limits of spaces with lower Ricci curvature bounds.

Organizers:

Chau, Albert (Math, UBC)

Chen, Jingyi (Math, UBC)

Farser, Ailana (Math, UBC)

Lu, Peng (Math, Oregon)

Rubinstein, Yanir (Math, Maryland)

Yuan, Yu (Math, Washington)

Speakers:

R. Bamler, U.C. Berkeley
W. Ballmann, Bonn
J. Bismut, Paris-Sud
J. Cheeger, NYU
A. Futaki, University of Tokyo
B. Kleiner, NYU
S.Kolodziej, Jagiellonian University
Y.Y. Li, Rutgers
J. Lott, U.C. Berkeley
A. Naber, Northwestern
S. Paul, Wisconsin-Madison
T. Riviere, ETH Zurich
Y. Rubinstein, UMaryland
N. Sesum, Rutgers
J. Streets, U.C. Irvine
M. Struwe, ETH Zurich
J. Viaclovsky, Wisconsin-Madison
J.P. Wang, Minnesota
B. White, Stanford
Y. Yuan, UWashington
W. Zhang, Nankai

Links:

https://www.pims.math.ca/files/Geometric_Analysis_Full__FINAL_July21.pdf
