

The 2012 Midwest Geometry Conference

University of Oklahoma, Norman

May 12-13, 2012

SCHEDULE

All talks are scheduled in Physical Sciences Building (PHSC), Room 108

SATURDAY, May 12, 2012

- 8:00-8:30 A.M. Snacks and Registration (PHSC 1105)
- 8:40-9:35 A.M. Paul Yang (Princeton University)
Compactness of conformally compact Einstein metrics
in 3+1 dimension
- 9:45-10:20 A.M. Christina Sormani (Lehman College and CUNY Graduate Center)
The Positive Mass Theorem, the Penrose Inequality and the Intrinsic
Flat Distance
- 10:30-11:05 A.M. Henry Wente (University of Toledo)
The Analysis of Bifurcations and Symmetry-breaking Phenomena
for Problems in Capillary Theory
- 11:15-11:50 A.M. Ye Li (University of Oklahoma)
Recent progress on geometric inequalities on Riemannian manifolds
and complex manifolds with applications
- 12:00-12:35 P.M. Chenxu He (Lehigh University)
Warped product Einstein structure
- 12:35-1:15 P.M. Box Lunch in PHSC 1105

SATURDAY, May 12, 2012

- 1:15-2:10 P.M. Bang-Yen Chen (Michigan State University)
Some optimal inequalities for Lagrangian submanifolds in
- 2:20-2:55 P.M. Ralph Howard (University of South Carolina)
Tangent Cones and Regularity of Convex Sets
- 3:05-3:40 P.M. Xiang-Dong Li (Chinese Academy of Sciences, China)
Riesz transforms and L^p Hodge decomposition on complete
Riemannian manifolds
- 3:50-4:25 P.M. Lina Wu (BMCC of City University of New York)
The Equivalence between a harmonic form and a closed co-closed
form under some appropriate growth estimates
- 4:35-5:10 P.M. Jui-Tang Chen (National Taiwan Normal University)
Liouville properties for p -harmonic maps
- 5:30-7:00 P.M. Banquet at the Heritage Room of the Union Building,
- 7:00-8:00 P.M. Panel discussion on open problems

SUNDAY, May 13, 2012

- 8:00-8:30 A.M. Fruits and Vegetable (PHSC 1105)
- 8:40-9:35 A.M. Xiaochun Rong (Rutgers University)
Continuity of extremal transitions and flops for Calabi-Yau manifolds
- 9:45-10:20 A.M. Jiazu Zhou (Southwest University, China)
On planar algebraic integral geometry
- 10:30-11:05 A.M. Changyou Wang (University of Kentucky)
Energy identity for approximate biharmonic maps and
their applications
- 11:15-11:50 A.M. Weiping Li (Oklahoma State)
Poincare-Hopf type formula for Chern character
- 12:00-12:35 P.M. Shihshu Walter Wei (University of Oklahoma)
Curvature, Criticality, Conservation Laws, and Unity in
 p -Harmonic Geometry
- 12:35-1:20 P.M. Box Lunch in PHSC 1105

SUNDAY, May 13, 2012

- 1:20-1:55 P.M. Jan Segert (University of Missouri, Columbia)
Geometric Completions of Isomonodromic Deformations
- 2:05-2:40 P.M. Future Directions of the Midwest Geometry Conference
Repres. from various states