

# Schedule of Workshop on Minimal Submanifolds and Related Topics

## Monday, December 10:

8:45-9:00 Introduction and welcome to BIRS by BIRS Station Manager, Max Bell 159  
9:00-9:50 **David Hoffman** (Stanford U.) Embedded Helicoidal Minimal Surfaces in  $R^3$  and  $S^2 \times R$   
10:00-10:30 Coffee Break  
10:30-11:20 **Jaigyoung Choe** (KIAS) Capillary surfaces in a convex cone  
11:30-1:30 Lunch  
1:30-2:20 **Yng-Ing Lee** (National Taiwan U.) Special solutions to Lagrangian mean curvature flow  
2:30-3:20 **Dan Lee** (Duke U.) The Riemannian Penrose inequality in dimensions less than 8  
3:30-4:00 Coffee Break  
4:00-4:50 **Spiro Karigiannis** (U. Oxford) Moduli spaces of calibrated cycles in  $G_2$  manifolds

## Tuesday, December 11:

9:00-9:50 **Gang Tian** (Princeton U.) A curvature estimate for Ricci flow in dimension 4  
10:00-10:30 Coffee Break  
10:30-11:20 **William Meeks** (U. Massachusetts) The classification of embedded minimal planar domains in  $R^3$ . (joint work with Joaquin Perez and Antonio Ros)  
11:30-12:00 Group Photo  
12:00-1:30 Lunch  
1:30-2:20 **Pengfei Guan** (McGill U.) Isoperimetric inequality of quermassintegrals for starshaped domains  
2:30-3:20 **Jiayu Li** (ICTP) Symplectic surfaces in K-E surfaces  
3:30-4:00 Coffee Break  
4:00-4:50 **Micah Warren** (U. Washington) A priori estimates for special Lagrangian equations

## Wednesday, December 12:

9:00-9:50 **Mario Micallef** (U. Warwick) Comparison between Second Variation of Area and Second Variation of Energy of a Minimal Surface  
10:00-10:30 Coffee Break  
10:30-11:20 **Leobardo Rosales** (UBC) Minimal immersions with prescribed boundaries  
11:30-1:30 Lunch  
**Free Afternoon**

## Thursday, December 13:

9:00-9:50 **Joel Spruck** (Johns Hopkins U.) A half-space theorem for complete embedded cmc  $1/2$  surfaces in  $H^2 \times R$   
10:00-10:30 Coffee Break  
10:30-11:20 **Bo Guan** (Ohio State U.) Complete conformal metrics of negative Ricci curvature on manifolds with boundary  
11:30-1:30 Lunch  
1:30-2:20 **Greg Galloway** (U. Miami) Stability and rigidity of marginally trapped surfaces, and the topology of black holes  
2:30-3:20 **Adrian Butscher** (Stanford U.) New constructions of submanifolds of the sphere which are critical points of the volume functional  
3:30-4:00 Coffee Break  
4:00-4:50 **Justin Corvino** (Lafayette College) Geometry and the Einstein Constraint Equations

## Friday, December 14:

9:00-9:50 **Yuanlong Xin** (Fudan U.) Curvature estimates for minimal submanifolds of higher codimension  
10:00-10:50 **Marianty Ionel** (U. Toledo) Constructions of special Lagrangian submanifolds