

# Griffiths Conference 2018 "Modern Geometry"

## March 1-4, 2018, University of Miami

### Schedule of Talks

---

**Thursday, March 1, 2018**, Fields House

**9:00am-9:15am** *Registration.*

**9:15am-9:30am** Dean Angel Kaifer (University of Miami) *Opening Remarks.*

**9:30am-10:30am** Ron Donagi (University of Pennsylvania) *Geometric Langlands and intersections of quadrics.*

**11:00am-12:00pm** Radu Laza (SUNY Stony Brook) *Moduli and Periods beyond the Classical Cases.*

**12:00pm-1:45pm** *Lunch break.*

**1:45pm-2:45pm** Mark Green (UCLA) *Hodge Theory and Boundary Components of Moduli of Surfaces.*

**4:00pm-5:00pm** Matt Kerr (WUSTL) *Apery Extensions.*

**5:00pm-5:15pm** *Greetings from President Julio Frenk.*

**5:15pm-5:30pm** *Change of venue: walk from the Fields House to The Learning Center.*

**5:30pm-6:30pm** Robert Bryant (Duke University) *From Mechanics, to Algebra, to Geometry: The Notion of Holonomy.* McKnight-Zame public lecture at the Learning Center, room 130.

**6:30pm** *Refreshments served at the Learning Center.*

---

---

**Friday, March 2, 2018**, Fields House

**9:30am-10:30am** Joseph Harris (Harvard University) *The Maximal Rank Theorem.*

**11:00am-12:00am** Carlos Simpson (University of Nice) *The Ubiquity of Variations of Hodge Structure (II).*

**12:00pm-1:30pm** *Lunch break.*

**1:30pm-2:30pm** David Morrison (UCSB) *Higher Chow groups, van Geemen lines, and mirror symmetry for open strings.*

**3:00pm-4:00pm** Edward Witten (IAS) *Developments in Two-Dimensional Gravity.*

**5:00pm-6:00pm** Robert Bryant (Duke University) *On Self-Dual Curves.*

**7:30pm** *Conference dinner at Texas de Brazil in the Dadeland Mall, 7535 N. Kendall Drive, Miami, FL 33156 (305) 669-2181.*

---

**Saturday, March 3, 2018**, Fields House

**9:30am-10:30am** Yuri Tschinkel (NYU) *Rationality and Unirationality.*

**11:00am-12:00pm** James Carlson (University of Utah) *Maximal Variations of Hodge Structure.*

**12:00pm-1:30pm** *Lunch break.*

**1:30pm-2:30pm** Herbert Clemens (OSU) *Building Calabi-Yau Manifolds from Representation Theory.*

**3:00pm-4:00pm** Gregory Pearlstein (Texas A&M) *Torelli Theorems for Special Horikawa Surfaces and Special Cubic 4-folds.*

**4:30pm-5:30pm** Fabian Haiden (Harvard University) *Geometric Flows, Iterated Logarithms, and Balanced Weight Filtrations.*

---

---

**Sunday, March 4, 2018,** Fields House

**9:30am-10:30am** Alexander Efimov (Steklov Institute) *On Categorical Smooth Compactifications.*

**11:00am-12:00pm** Colleen Robles (Duke University) *Completion of Period Mappings.*

**12:00pm-1:30pm** *Lunch break.*

**1:30pm-2:30pm** Wilfried Schmid (Harvard University) *Hodge Theory and Unitary Representations of Reductive Groups.*

**3:00pm-4:00pm** Ernesto Lupercio (CINVESTAV) *Self-Organized Criticality and quantum toric geometry.*

**4:30pm-5:30pm** Dmitry Kaledin (Steklov Institute) *Hyperkahler Metrics, Mixed Hodge Structures and Massey Products.*

---