

**Lehigh Conference On Differential Geometry**  
**In honor of David Johnson's 70<sup>th</sup> birthday**

October 14–16, 2022

**Program**

All talks are held in Auditorium Room **#184 of Rauch Business Center** (621 Taylor St)  
Campus map: <https://www.lehigh.edu/~inis/pdf/about/LUPackerCampusMap.pdf>

**Friday, October 14**

- 9:00-10:45**      Registration
- 11:00-12:00      Vincent Borrelli (Université Claude Bernard Lyon 1)  
*Hyperbolic Planes in  $E^3$  and their Limit Sets*
- 12:00-2:00**      Lunch Break
- 2:00-3:00        Frank Morgan (Williams College)  
*Isoperimetric Theorems from David Johnson until Now*
- 3:00-3:30**        Break
- 3:30-4:00        Oscar Perdomo (Central Connecticut State University)  
*Spectrum of the Laplacian and Stability Operator for CMC Hypersurfaces with two Principal Curvatures on the Spheres*
- 4:00-4:30**        Break
- 4:30-5:30        Christina Sormani (CUNY GC and Lehman College)  
*Thoughts on Spacetime Intrinsic Flat Convergence*

**Saturday, October 15**

- 8:00-9:00**        Continental Breakfast
- 9:00-10:00      Shing-Tung Yau (Tsinghua University; **Remote via Zoom**)  
*Complete Noncompact Calabi-Yau Manifolds*
- 10:00-10:20**      Tea Break
- 10:20-10:50      Yury Ustinovskiy (Lehigh University)  
*On Geometry of Steady Toric Kähler-Ricci Solitons*
- 10:50-11:10**      Break
- 11:10-12:10      Penny Smith (Lehigh University)  
*Quantum Geometry and Covariant Loop Quantum Gravity (Part II)*

- 12:10-2:00** Lunch Break
- 2:00-3:00 Herman Gluck (UPenn)  
*Homotopy Type of Spaces of Fibrations*
- 3:00-3:30** Break & **Group Photo**
- 3:30-4:00 Ernani Ribeiro Jr. (Universidade Federal do Ceará)  
*On Euler Characteristic and Hitchin-Thorpe Inequality for Four-dimensional Compact Ricci Solitons*
- 4:00-4:30** Break
- 4:30-5:30 Claude LeBrun (Stony Brook)  
*Geometry of 4-Manifolds: Curvature in the Balance*
- 6:00-7:00 **Reception**
- 7:00-9:30 **Banquet**

**Sunday, October 16**

- 8:30-9:30:** Continental Breakfast
- 9:30-10:30: Huai-Dong Cao (Lehigh University)  
*Geometry of Ricci Solitons*
- 10:30-11:00** Break
- 11:00-12:00 Panagiota Daskalopoulos (Columbia University)  
*Ancient Solutions to Geometric Flows*