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**Speaker:** David González  
Universidad Autónoma de Madrid (Spain)

Tuesday, March 28, 2017

11:00 AM

258 Hurley Hall

**Title:** Riemannian submersions with positive curvature.

**Abstract:**

Riemannian submersions are the main tool to construct manifolds with nonnegative and positive (sectional) curvature: starting with a nonnegatively curved total space, O'Neill's formula guarantees nonnegative curvature on the base space. When the total space has positive curvature, the lack of known examples of such submersions points out to the possible presence of restrictions to their existence. In this talk we will bound the dimension of the fiber in a Riemannian submersion from a positively curved manifold in terms of the dimension of the base space and other geometric invariants. This is based on joint work with Luis Guijarro.