



# Special Colloquium

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## **"BIFURCATION THEORY IN GEOMETRIC ANALYSIS"**

Bifurcation theory originated from problems in applied sciences and engineering (such as the buckling of structures), and was developed by mathematicians into a powerful toolkit in analysis to find multiple solutions to differential equations. In this talk, I will discuss basic aspects of bifurcation and survey on how it can be used to prove non-uniqueness results for many problems in differential geometry. Among these, the main focus will be on constant mean curvature hypersurfaces and on the Yamabe problem.

**Monday, January 22nd, 2018**

**Surge 284**

**Tea Time @ 4:00 p.m.**

**Talk Begins @ 4:10 p.m.**

**Ends @ 5:10 p.m.**

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