

# Departmental Colloquium

Dr. Peiluan Li  
Henan University of Science and Technology, China

Tuesday, April 18, 2017  
3:00p.m., HH-3017

*Solutions for Impulsive Fractional Differential  
Equations via Variational Methods*

## **Abstract:**

In this talk, we investigate the boundary value problems of impulsive fractional order differential equations. After obtaining the existence of at least one solution from the minimization result, we establish the existence results of at least triple solutions by the variational methods and a very recent critical point theorem due to Bonanno and Marano. In addition we give the existence criteria of infinitely many solutions based on the variational methods and a critical point theorem. Some examples are provided to demonstrate the application of the main results.