

Bertin Zinsou  
University of the Witwatersrand

**Fourth order Birkhoff regular problems with eigenvalue parameter  
dependent boundary conditions**

**Abstract**

A regular fourth order differential equation which depends quadratically on the eigenvalue parameter  $\lambda$  is considered with classes of separable boundary conditions independent of  $\lambda$  or depending on  $\lambda$  linearly. Conditions are given for the problems to be Birkhoff regular.

Talk time: 2016-07-19 02:30 PM— 2016-07-19 02:50 PM  
Talk location: Cupples I Room 218