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**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 λ is considered with classes of separable boundary conditions independent of λ or depending on λ 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