

1125-35-1040

Sergei Avdonin (s.avdonin@alaska.edu), 2534 Bridlewood Lane, Atlanta, GA 30339, and **Luz de Teresa*** (deteresal@gmail.com). *The Kalman condition for the boundary controllability of coupled 1-d wave equations.*

In this talk, we prove the exact controllability of a system of N one-dimensional wave equations when the control is exerted on a part of the boundary by means of one control. We give a Kalman condition (necessary and sufficient) and give a description, non optimal in general, of the attainable set. (Received September 18, 2016)