



Universidade Federal de Santa Catarina  
Centro de Ciências Físicas e Matemáticas  
Pós-Graduação em Matemática



Seminars on Differential Equations (2018.1)

## Higidio Portillo Oquendo

STABILITY RESULTS FOR SOME COUPLED SYSTEMS

### Abstract

In this talk, we introduce some coupled systems with partial damping and we study the asymptotic behavior of their solutions. The dissipative mechanism is one that generalizes the frictional damping and the Kelvin-Voigt damping. It is shown that the semigroup decays polynomially and explicit decay rates are obtained.

**Florianópolis. June 28<sup>th</sup>, 2018. 14:00 - 15:00**

**Room 202 - Maths Department**

Check out our website: <http://mtm.ufsc.br/~bortolan/seminario/index1.html>