



SEMINAR

Grupo de Análise Funcional e Aplicações Functional Analysis and Applications Group

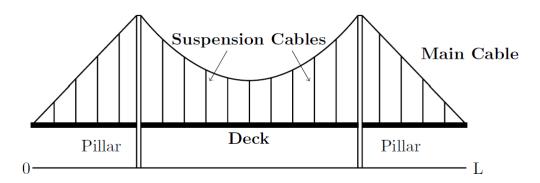
Recent aspects over suspension bridges

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Abstract

A suspension bridge is a mechanical structure consisting of pillars supporting the deck through main cables modeled by an elastic string coupled to the deck using suspension cables.



We will present a suspension bridge system where laminated beams model the deck. Frictional damping will be considered. Well-posedness will be verified using the Lumer-Phillips theorem, and the exponential stability will be obtained by applying the Gearhart-Huang-Prüss theorem.

Room 11.2.21

September 11, 2025 - 11:00

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