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THE DEPARTMENT OF MATHEMATICAL SCIENCES PROUDLY PRESENTS

## COLLOQUIUM

SPRING 2015

## Quantum Mechanics and Photonics Crossing Paths: the Study of Parity-Time (PT) Symmetric Systems

## **Alejandro B. Aceves**

Southern Methodist University Dallas, TX February 24, 2015

## ABSTRACT

It is not uncommon that the mathematics that describes the phenomena of light propagation in optical media has strong similarities with the modeling of other physical systems. In this talk as a way of motivation, I will briefly discuss some classical examples followed by a discussion of the current research topics of nonlinear optics in PT-symmetric systems.

Monzón Building, Room 201, 10:45 AM Refreshments will be served 15 minutes before the colloquium in Monzón 213





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