

## School Colloquium Series

# Gelfand-Tsetlin modules of Lie algebras

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### **Abstract**

Every irreducible finite-dimensional module of the general linear Lie algebra  $\mathfrak{gl}(n)$  can be described with the aid of the classical Gelfand-Tsetlin formulas. These same formulas can be used to define a  $\mathfrak{gl}(n)$ -module structure on some infinite-dimensional modules - the so-called generic (nonsingular) Gelfand-Tsetlin modules.

In this talk we will introduce Gelfand-Tsetlin modules and discuss recent progress on the study of singular Gelfand-Tsetlin  $\mathfrak{gl}(n)$ -modules. The talk is based on a joint work with V. Futorny, L. E. Ramirez, and P. Zadunaisky

**Date:** Friday, November 2, 2018

**Time:** 4:00pm-5:00pm

**Place:** EMAGC 1.302

The talk will be delivered live at the Edinburg campus and will be streamed to the Brownsville campus at BLHSB 1.312. Refreshments will be served at 3:45pm.

For further information or for special accommodations, please contact Dr. Elena Poletaeva at [elena.poletaeva@utrgv.edu](mailto:elena.poletaeva@utrgv.edu) or Dr. Bao-Feng Feng at [baofeng.feng@utrgv.edu](mailto:baofeng.feng@utrgv.edu).

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