

# B I - C O M A T H E M A T I C S C O L L O Q U I U M

**Geremias Polanco**

Smith College

*“On Numbers ... and Patterns ...  
and Games ... and Greed”*

***Monday, October 17, 2022***

*Talk at 4:00 – Park 338*

*Tea at 3:30 – Park 361, Math Lounge*

**Abstract:**

Sturmian and Beatty sequences are two equivalent uncountable families of sequences with applications in various fields (for instance pure mathematics, music, biology and quasi crystallography). In this talk we will explore these types of sequences, look at some combinatorial games, and present some recent results about these families, stemming from a generalization of a well-known greedy algorithm.

**BRYN MAWR COLLEGE**