

# Seminars on Pure and Applied Math



## Announcing

**A Mathematics Seminar  
at 2:30 pm on Thursday  
July 9, 2015 in Maxcy 212  
at The University of New Haven**

**Jonad Pulaj**

Zuse Institute Berlin

**Title: Computational Combinatorics  
via Integer Programming**

### **Synopsis:**

In this talk we focus on the application of the broad methodology of integer programming to specific problems of interest ranging from applied network design to extremal combinatorics. By studying the geometry of the underlying optimization problems we show that the chosen computational framework leads to good solutions for large, realistic instances in telecommunication network design, in addition to providing new insight into particularly difficult problems from extremal combinatorics such as Frankl's conjecture. If time permits we also show applications to Ramsey theory.

### **Further Information**

For further information, please contact Angie Domschine at the Department of Mathematics, Office: Maxcy 204, 203-932-7250, [ADomschine@newhaven.edu](mailto:ADomschine@newhaven.edu).