

# Lethbridge Number Theory and Combinatorics Seminar

Monday — December 2, 2019

Room: C630

Time: 12:00 to 12:50 p.m.

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## Simplicity of ABV-packets for Arthur Type Parameters in $GL_n$

In this talk we will discuss a combinatorial approach to studying the geometry of the moduli space of Langlands parameters for  $GL_n$ . We will first discuss several connections between the study of partitions and the study of nilpotent conjugacy classes. We then generalize some of these ideas to describe a relationship between multi-segments and orbits in the moduli space of Langlands parameters. Finally we shall explain how these ideas lead to a proof that simple parameters have simple packets.

**EVERYONE IS WELCOME!**

Visit the seminar web page at

<http://www.cs.uleth.ca/~nathanng/ntcoseminar/>



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