

Lethbridge Number Theory and Combinatorics Seminar

Monday — February 11, 2019

Room: D631

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

Nathan Ng

University of Lethbridge

Discrete moments of the Riemann zeta function

In this talk I will consider the discrete moments

$$J_k(T) = \sum_{0 < \gamma < T} |\zeta'(\rho)|^{2k},$$

where $\zeta(s)$ is the Riemann zeta function, $\rho = \beta + i\gamma$ is a non-trivial zero of $\zeta(s)$, and $T > 0$. In the 1980's Steve Gonek and Dennis Hejhal (independently) studied these moments and proposed a conjecture for the size of $J_k(T)$. I will give a survey of the known results towards the Gonek-Hejhal conjecture on $J_k(T)$. If time permits, I will present several new results.

EVERYONE IS WELCOME!

Visit the seminar web page at

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



Pacific Institute *for the*
Mathematical Sciences