Lethbridge Number Theory and Combinatorics Seminar

Monday — May 7, 2018

Room: C630

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

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Non-vanishing of L-functions of Hilbert Modular Forms inside the Critical Strip

Abstract: In this talk, I will discuss recent joint work with Wissam Raji. We show that, on average, the L-functions of cuspidal Hilbert modular forms with sufficiently large weight k do not vanish on the line segments $\Im(s) = t_0$, $\Re(s) \in (\frac{k-1}{2}, \frac{k}{2} - \epsilon) \cup (\frac{k}{2} + \epsilon, \frac{k+1}{2})$. The proof follows from computing the Fourier expansion of a certain kernel function associated with Hilbert modular forms and estimating its first Fourier coefficient. This result is analogous to the case of classical modular forms which was proved by W. Kohnen in 1997.

EVERYONE IS WELCOME!

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