**NATHAN HEISZ**, McMaster University

*Densities of Bounded Primes in Hypergeometric Series*

A Hypergeometric series ${}_mF_n(\alpha, \beta; z)$ is said to be $p$-adically bounded if the $p$-adic valuation of the coefficients is bounded below. A logical extension of this problem is to consider the Dirichelet density of bounded primes in a series with fixed parameters $\alpha$ and $\beta$. We will briefly summarize existing results from Franc et.al. on the densities of bounded primes for ${}_2F_1$ over $\mathbf{Q}$ before presenting new results on the densities of general ${}_mF_n$. Furthermore we will discuss a lower bound of the density of bounded primes in ${}_2F_1$ over quadratic number fields $\mathbf{Q}(\sqrt{D})$ and an interesting conjecture that gives an exact formulation for the densities in this case.