

UBC Number Theory Seminar: January 19, 2022

Speaker: Preston Wake (Michigan State University)

Title: Eisenstein congruences and class groups of pure fields

Abstract: Let p and N be primes and assume N is -1 modulo p . Then the class number of $\mathbb{Q}(N^{1/p})$ is divisible by p . I'll explain how to prove this using congruences between modular forms. This is joint work with Jackie Lang.