

1096-11-264

Katherine Thompson* (kthompson0721@gmail.com), Mathematics Department, University of Georgia, Athens, GA 30602. *Positive-Definite Quaternary Quadratic Forms Over $\mathbb{Q}(\sqrt{5})$.*

In this poster, we will show how to use the theory of local densities (developed by Siegel) and Hilbert modular forms to provide proofs of universality and almost-universality of quaternary positive-definite quadratic forms over $\mathbb{Q}(\sqrt{5})$. (Received August 25, 2013)