

Around quadratic reciprocity law in weak fragments of arithmetic

Paola D'Aquino

`paola.daquino@unina2.it`

Università di Napoli II

I will consider Gauss second proof of quadratic reciprocity law which uses quadratic forms, and I will discuss some relations between quadratic reciprocity law and Pell equations over weak fragments of Peano Arithmetic.
(This is joint work with A. Macintyre)