

# SEMINÁRIO DE TEORIA DOS NÚMEROS

## Number of solutions to a class of diagonal equations over finite fields

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13/09/17  
14:00Horas  
Auditório do MAT

**Abstract.** Using Gauss and Jacobi sums, we derive formulas for the number of solutions to a class of diagonal equations over finite fields. The evaluations are made in terms of quadratic partitions of powers of the prime  $p$  (the characteristic of the field)