

ALGEBRA
SEMINAR

Upper bounds for Euclidean minima of abelian fields

Eva Bayer
EPFL

Abstract: The Euclidean division is a basic tool when dealing with the ordinary integers. It does not extend to rings of integers of algebraic number fields in general. It is natural to ask how to measure the 'deviation' from the Euclidean property, and this leads to the notion of Euclidean minimum. The case of totally real number fields is of especial interest, in particular because of a conjectured upper bound (conjecture attributed to Minkowski). The talk will present some recent results, obtained jointly with Piotr Maciak.

Wednesday, October 17, 2012, 3:00 pm
Mathematics and Science Center: W306

MATHEMATICS AND COMPUTER SCIENCE
EMORY UNIVERSITY