

SCHOLAR
UNE CÉLÉBRATION SCIENTIFIQUE SOULIGNANT LES LIGNES OUVERTES DE LA RECHERCHE MATHÉMATIQUE EN
L'HONNEUR DE L'HÉRITAGE MATHÉMATIQUE DU P^R M. RAM MURTY À L'OCCASION DE SON 60^E ANNIVERSAIRE
15 AU 17 OCTOBRE 2013

SCHOLAR
A SCIENTIFIC CELEBRATION HIGHLIGHTING OPEN LINES OF ARITHMETIC RESEARCH IN
HONOUR OF PROFESSOR M. RAM MURTY'S MATHEMATICAL LEGACY ON HIS 60TH BIRTHDAY
OCTOBER 15–17, 2013

Polynomials mod p and the theory of Galois sets

Michael Rosen^{*}

michael_rosen@brown.edu

WEB: www.math.brown.edu/faculty/rosen.html

This talk concerns the reduction of integral polynomials modulo a prime p . A variety of questions are raised and partially answered using classical density theorems. Toward the end of the talk, the results are generalized to the category of Galois sets, i.e., zero-dimensional algebraic sets defined over the rational numbers.

^{*}Mathematics Department, Brown University, Box 1917, Providence, RI 02912, USA