IMAL PREPRINT # 2014-0026 Publication date: December 29, 2014

S-MINIMAL VALUE SET POLYNOMIALS AND AN IDENTITY OF LENSTRA

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ABSTRACT. In this paper we prove a new identity satisfied by a family of polynomials defined by Garcia, Stichtenoth and Thomas in their work on good recursive tame towers. We also generalize the notion of minimal value set polynomials and we prove that this family of polynomials is an example of this generalization.