

The 12th Seminar on

Commutative Algebra and Related Topics, November 11 and 12, 2015

School of Mathematics, IPM, Tehran

Geometric Methods in Algebra: A Question of Monsky in Practice

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We show that the Hilbert-Kunz multiplicity in the zero characteristic case depends only on the degree data of a plane curve defined by a quasihomogeneous equation. We present several examples to illustrate the idea. An application is given. This is based on a joint work with Holger Brenner.