

REGULARITY FOR CERTAIN CLASSES OF MONOMIAL IDEALS

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Abstract

We introduce a new class of monomial ideals, called strong Borel type ideals, and we compute the Mumford-Castelnuovo regularity for principal strong Borel type ideals. Also, we describe the d -fixed ideals generated by powers of variables and we compute their regularity.

Keywords: p -Borel ideals, Borel type ideals, Mumford-Castelnuovo regularity.

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