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Linh Cao Huy* (huylinh2002@yahoo.com), 8861 Burning Tree Rd., Pensacola, FL 32514, and
Brodmann Markus. *Castelnuovo-Mumford regularity and relation type.*

In this talk, we will establish a bound for the Castelnuovo-Mumford regularity of associated graded rings with respect to parameter ideals in terms of dimension and relation type. From this it follows that R has a uniform bound on relation type of parameter ideals if and only if R has a uniform bound on regularity of parameter ideals. (Received September 14, 2010)