1035-13-1885   **Morgan Sherman*** (`morgan.sherman@csuci.edu`), 1 University Dr., Dept. of Math – CSUCI, 2105 BTW, Camarillo, CA 93012. *A local version of Gotzmann's Persistence.*

Gotzmann's Persistence states that the lexicographic ideal sets the pace for the rate of growth of any ideal having the same Hilbert polynomial. We will introduce the notion of a "lex-type" ideal based on the definition of the lex ideal, and use it to prove a local version of Gotzmann's theorem. (Received September 20, 2007)

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