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Roger D. Dellaca* (rdellaca@uci.edu). *Bounding the Castelnuovo-Mumford regularity of modules.*

In this talk, we will look at bounds for the Castelnuovo-Mumford regularity for modules with a given Hilbert polynomial, generalizing work of Gotzmann. We will also consider the question of sharpness, and some applications. (Received August 31, 2015)