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Craig Huneke* (huneke@virginia.edu), Department of Mathematics, University of Virginia,
Charlottesville, VA 22904. *The projective dimension of quadrics.*

This talk concerns Stillman's question which asks if the projective dimension of n forms of degrees d_1, \dots, d_n in a polynomial ring is bounded as a function of those degrees. We concentrate mainly on the case in which $d_i = 2$ for every i . Most of the talk will be on joint work with Jason McCullough, Paolo Mantero, and Alexandra Seceleanu. In particular we give a sharp bound when the height is 2. (Received September 04, 2014)