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Gretchen Matthews* (gmatthe@clermson.edu), Department of Mathematical Sciences, Clemson University, Clemson, SC 29631. *On locally decodable codes from AG codes*. Preliminary report.

In some applications, it is necessary to determine a single or perhaps a small number of message or codeword symbol(s) without having access to the entire received word. This is in contrast to the traditional setting where a decoder takes as input a received word w and uses w to produce an estimate of the codeword originally sent. Here, the notion of locally decodable codes is needed. In this talk, we discuss preliminary results on locally decodable codes constructed from algebraic geometric codes. (Received August 10, 2015)