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Hypergeometric functions, elliptic curves and modular forms. Preliminary report.

I'll discuss ongoing work with Catherine Lennon on the appearance of special functions – finite field analogs of hypergeometric functions – in both the L-functions of elliptic curves and modular forms and their relation to work of N. Katz and conjectures of F. Rodriguez-Villegas. (Received August 02, 2011)