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Uli Walther* (walther@math.purdue.edu). *Hypergeometric systems and singularities*. Preliminary report.

Hypergeometric systems, in the equivariant formulation, started on semigroup rings, then evolved to their torus invariant subschemes, and most recently moved on to binomial varieties. This talk will suggest some new grounds for growing D-modules of hypergeometric flavor from varieties. (Received August 19, 2011)