Meeting: 1002, Pittsburgh, Pennsylvania, SS 9A, Special Session on Multivariate Hypergeometric Functions: Combinatorial and Algebro-Geometric Aspects

1002-14-81 **Uli Walther*** (`walther@math.purdue.edu`). *Generalized A-hypergeometric systems and duality.* Preliminary report.

We investigate a spectral sequence arising from holonomic duality when applied to generalized hypergeometric functions. We use it to study the holonomic dual of such a system, following a conjecture of Takayama. (Received September 01, 2004)