1108-14-428   **Christine Berkesch Zamaere** and **Laura Felicia Matusevich***, Department of Mathematics, Texas A&M University, Mailstop 3368, College Station, TX 77843-3368, and **Uli Walther**. *Torus equivariant D-modules and hypergeometric systems.*

Intuitively, the A-hypergeometric systems introduced by Gelfand, Graev, Kapranov and Zelevinsky in the late 1980s are torus equivariant versions of the classical hypergeometric differential equations whose study goes back to Euler and Gauss. Thus, equations of classical type are obtained from the equivariant ones by some kind of quotient procedure. The goal of this talk is to construct a quotient functor from a category of torus equivariant D-modules, in such a way that desirable properties are preserved upon passage to the quotient. (Received January 19, 2015)