Jordi Pau and Ruhan Zhao* (rzhao@brockport.edu), Department of Mathematics, SUNY Broockport, Brockport, NY 14420. Weak factorization and Hankel forms for weighted Bergman spaces on the unit ball.

In this talk we establish weak factorizations for a weighted Bergman space $A^p_\alpha$, with $1 < p < \infty$, into two weighted Bergman spaces on the unit ball of $\mathbb{C}^n$. To obtain this result, we characterize bounded Hankel forms on weighted Bergman spaces on the unit ball of $\mathbb{C}^n$. This is a joint work with Jordi Pau. (Received January 15, 2015)