Mohammed Tesemma\* (mtesemma@spelman.edu), 350 Spelman Lane. SW, Atlanta, GA 30314. SAGBI bases and applications to invariant theory.

In this talk I will introduce SAGBI bases in conjunction with the concept of Gröbner bases. Early results by Robbiano and Sweedler as well as some examples will be presented. We will also explore applications of SAGBI bases to characterize certain invariant rings. I will conclude with some open problems. (Received January 17, 2017)