1099-13-109   **Chris Francisco*** (`chris@math.okstate.edu`), 401 MSCS, Department of Mathematics, Oklahoma State University, Stillwater, OK 74078, and **Huy Tai Ha** and **Adam Van Tuyl**.
Recent work on persistence of associated primes. Preliminary report.

Let I be a squarefree monomial ideal in $R = k[x_1, \ldots, x_n]$. One version of the persistence problem asks: If a prime $P \in \mathrm{Ass}(R/I^s)$, under what conditions is $P \in \mathrm{Ass}(R/I^{s+r})$ for all $r \geq 0$? We will survey progress on this question from the last few years. Work in which I have been involved is joint with Tài Hà and Adam Van Tuyl. (Received February 02, 2014)