1113-37-199   **Vitaly Bergelson**, Department of Mathematics, 231 West 18th Avenue, Columbus, OH 43210, and **Donald Robertson*** (`robertson@math.utah.edu`), Department of Mathematics, 155 S 1400 E, Salt Lake City, 84112. *Intersective Polynomials and Recurrence.*

In this talk I will describe recent progress made with V. Bergelson on recurrence and multiple recurrence for $\mathbb{Z}^d$ actions along intersective polynomials - polynomials having a common root modulo any congruence. Specifically, I will describe new collections of intersective polynomials for which multiple recurrence is known to hold, and a strengthening of the structure of single recurrence times along an intersective polynomial. (Received August 23, 2015)