## REZA AKHTAR, Miami University

Small-sum pairs in abelian groups

Let A and B be subsets of size k in a finite abelian group G. Answering a question of Bihani and Jin, we prove that if A+B and A+A both have size 2k-1, then, under suitable technical hypotheses, A must be a translate of B. The main ingredient in the proof is Kemperman's structure theorem. This is joint work with Paul Larson.