Some developments of the weighted EGZ theorem

Arie Bialostocki

(joint work with Matthew Conroy)

It has been conjectured that for n even if A and B are two zero sum sequences, over Z_n, each of length n, then there exists a permutation which permutes the elements of B resulting a sequence B' such that the inner product of A and B' is 0 in Z_n. First, we extend the above conjecture to n odd, provided A and B do not belong to two exceptional cases. Next, we provide some information about the exceptional cases and other cases of interest.