1172-26-148 Amalia Culiuc* (aculiuc@amherst.edu), Wei Chen, Francesco Di Plinio, Michael Lacey and Yumeng Ou. Sparse bounds for Walsh multipliers.

n recent years, sparse domination has become a common and efficient technique for proving weighted estimates for singular integral operators. Motivated by a conjecture of Andrei Lerner, we explore the sparse bounds for Marcinkiewicz multipliers and Littlewood-Paley square functions in the Walsh-Fourier setting. The weighted corollaries we obtain are sharp in the full range for the square function and in a restricted range for the Marcinkiewicz multipliers. (Received August 24, 2021)