Amalia Culiuc | Amherst College **Title:** Sparse bounds for Walsh multipliers

**Abstract:** Motivated by a conjecture of Andrei Lerner regarding quantitative estimates for Marcinkiewicz multipliers and Littlewood-Paley square functions, we study the endpoint sparse bounds for these operators in the Walsh setting. Our result establishes sharp weighted corollaries in terms of the \$A\_p\$ characteristic in the case of the Walsh-Littlewood-Paley square function, and for a restricted range of exponents for Marcinkiewicz multipliers.