

Endpoint bounds for certain classes of operators arising in Littlewood-Paley theory

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Abstract

In the first part of this talk we shall review certain aspects of classical Littlewood-Paley theory and briefly present some open problems in the area. Motivated in part by these problems, in the second part of talk, we will present joint work with Valentina Ciccone, Ioannis Parisis, and Marco Vitturi concerning sharp endpoint bounds for certain classes of operators arising in Littlewood-Paley theory, including Littlewood-Paley square functions and Marcinkiewicz multiplier operators of finite order.