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Extremizability of Fourier restriction to the paraboloid

We will show that for almost all valid $L^p(\mathbb{R}^{d+1}) \to L^q(\mathbb{P}^d)$ restriction inequalities, there exist functions of $L^p(\mathbb{R}^{d+1})$ norm 1 whose extensions have $L^q(\mathbb{P}^d)$ norm equal to the operator norm. As time permits, we will also discuss related questions for other Fourier restriction/extension operators.