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*A variant of the  $\Lambda(p)$ -set problem in Orlicz spaces*

When  $p > 2$ , let  $S$  be a set of integers and consider trigonometric polynomials whose Fourier coefficients are supported on  $S$ . For various sets  $S$ , the range of  $p$  has been studied where  $L^p$  norms of trigonometric polynomials are bounded by their  $L^2$  norms. However, in the opposite direction, we can fix  $p$  and think of a set  $S$  which satisfies the inequality  $\|f\|_p \leq C\|f\|_2$  for some constant  $C$ . This set  $S$  is called a  $\Lambda(p)$ -set. In this talk, we will introduce  $\Lambda(\Phi)$ -sets which are defined in terms of Orlicz norms. And we will discuss some results about  $\Lambda(\Phi)$ -sets which extends known results about  $\Lambda(p)$ -sets.