

WIENER'S PROBLEM ABOUT CYCLIC VECTORS,
AND PIATETSKI-SHAPIRO'S UNIQUENESS
PHENOMENON

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This is joint work with A. Olevskii. We consider the following two problems:

(1) If a compact K supports a distribution whose Fourier transform belongs to a certain space, does it also support a measure with this property?

(2) Which are the functions in $l^p(Z)$ or $L^p(R)$ whose set of translates spans the whole space?