

# FLOWERS AND A WEAK FORM OF THE YUAN-HUNT CONJECTURE (2 LECTURES)

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Given the Circle endowed with the doubling map  $T$ , we consider the problem of maximizing measures for Lipschitz functions. We provide a reduction result for the conjecture stating that in a dense open set in that space the maximizing measure is unique and supported by a periodic orbit. More precisely we show that it follows from a generic finite form in the Conze-Guivarc'h-Mañé lemma. The proofs rely on dynamical properties of special sections of  $T$  (induced by "flowers") together with geometrical lemmas on Lipschitz functions.