



Pacific Institute *for the*  
Mathematical Sciences

# PIMS-AMI Distinguished Lecture

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12 February, 2016  
3:00 pm

CAB 657  
University of Alberta

## ALMOST REDUCIBILITY IN QUASI-PERIODIC DYNAMICS



I will discuss the following question: Is any smooth or analytic orientation preserving diffeomorphism of the circle with an irrational rotation number almost reducible in the sense that there exists a sequence of smooth or analytic conjugations  $g_n$  such that  $g_n^{-1} \circ f \circ g_n$  converges in the smooth topology to  $x \mapsto x + \alpha$ ? I will also discuss the similar question for pseudo-rotations of the disk (orientation and area preserving diffeomorphisms of

