Pacific Institute *for the* Mathematical Sciences

PIMS-AMI Distinguished Lecture

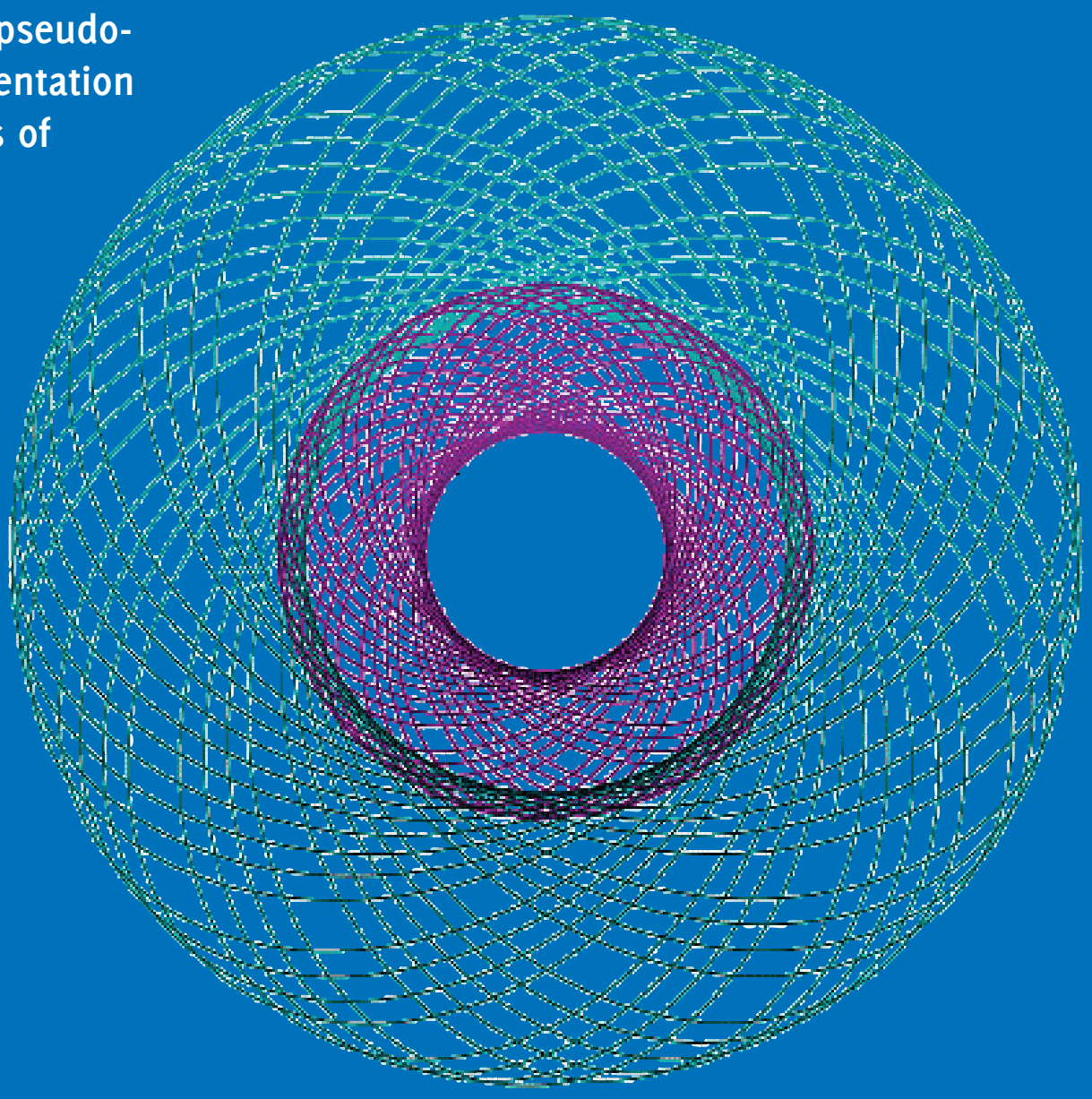
Raphael Krikorian (Université de Cergy-Pontoise)

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



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