Title : *Growth rate of best Diophantine approximation denominators*

Abstract: We extend to best simultaneous Diophantine approximations, the classical Levy-Khintchin Theorem on the growth rate of the denominators of the convergents of continued fractions. The main idea of the proof is to  
consider the space of lattices of volume $1$, $SL(d+1,\mathbb R)/SL(d+1,\mathbb Z)$, together with an appropriate diagonal flow. In that framework, the growth rate of  denominators of best approximations is related to the return time of the flow  
on the surface defined by the equality of the first two minimums of a lattice.

This is a joint work with Yitwah Cheung.