

UNIVERSIDADE FEDERAL DE SÃO CARLOS  
DEPARTAMENTO DE MATEMÁTICA

COLÓQUIO 2015

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Falará sobre

Dynamics of coupled maps in heterogeneous networks

(joint work with J. Lamb and S. van Strien)

Recent experiments show that heterogeneous networks exhibit synchronization at various levels. That is, massively connected nodes can synchronise while less connected nodes remain incoherent. Striking examples are found in the brain. Indeed, synchronisation between highly connected neurons coordinate and shape development in the network. A theory for such multiscale synchronization remains a major challenge. I will discuss a probabilistic approach towards the explanation of this phenomenon in the limit networks of large random networks.

Quarta-feira, 11 de novembro, às 16h no Auditório