MODELIFE WORKSHOP

March 4th 2020, 10h15-16:30

Salle de conférence LJAD (Valrose)

Non linear dynamics in Neuroscience

Dynamical neuroscience describes non-linear dynamics at the different levels of the brain, from single neural cells to the behaviour of a single neuron in large-scale neuronal networks, from neuronal physiology to cognitive processes. The goal of this workshop is to update a broad audience with different modeling approaches to resolve fundamental questions in neuroscience, where non-linear dynamics are embedded in systems with several space and time scales.

Please register !

https://math.unice.fr/~guerrier/Workshop/modelife-workshop-non-lin-neurosci

PROGRAM

10:15	*Welcome*		
10:30	M. Desroches	INRIA, Nice	Slow-fast analysis of neural bursters: old and new
11:30	A. Khadra	McGill Univ, Montreal	Cerebellar stellate cell excitability: Runup, first-spike latency, switching and non-sequential spike adding
12:30	*Lunch break*		
14:00	J. Reingruber	IBENS, Paris	Non-linear ion dynamics in the confined ciliary space of olfactory receptor neurons
15:00	R. Veltz	INRIA, Nice	Analysis of a neural field model for color perception unifying assimilation and contrast
16:00	*Coffee and closing*		

MODELIFE Committee

contact: Forname.Surname @univ-cotedazur.fr

J.-P.Comet I3S	F. Delaunay iBV	R. Gautier IPMC	B. Mauroy LJAD	E. Pécou LJAD	A. Seminara INPHYNI	J.-A. Sepulchre INPHYNI	Event organizer: C. Guerrier LJAD

http://univ-cotedazur.fr/fr/idex/projets-structurant/modelife

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