

Monday, June 8th - Poster Session 1

1. Snakes and ladders in neural field models: analytical and computational tools
DANIELE AVITABILE AND HELMUT SCHMIDT

3. Roadmaps for neuronal models: individual and networked
R. BARRIO, M. LEFRANC, M. A. MARTÍNEZ, M. RODRÍGUEZ, S. SERRANO AND A. SHILNIKOV

5. First passage times in integrate-and-fire neurons with stochastic thresholds
WILHELM BRAUN, PAUL C. MATTHEWS AND RÜDIGER THUL

7. Non-stationary synaptic conductances modeled by filtered shot noise processes
MARCO BRIGHAM AND ALAIN DESTEXHE

9. Quasicycles in the stochastic hybrid Morris-Lecar neural model
HEATHER A BROOKS AND PAUL C BRESSLOFF

11. From smooth firing rate functions to the Heaviside function in homogenized neural field models: the case of bump solutions
EVGENII BURLAKOV, ARCADY PONOSOV AND JOHN WYLLER

13. Next generation neural mass models: rate and coherence
ÁINE BYRNE, SID VISSER AND STEPHEN COOMBES

15. Laminar neural field model of spatially structured patterns of orientation selectivity
SAM CARROLL AND PAUL BRESSLOFF

17. Neural clique networks in an unreliable environment
ELLIOTT COYAC, VINCENT GRIPON, CHARLOTTE LANGLAIS AND CLAUDE BERROU

19. Travelling wave and bump dynamics in a spiking neuronal network
JOSHUA DAVIS, DANIELE AVITABILE AND KYLE WEDGWOOD

21. Closed-loop regulation of the activity of delayed neural fields with only partial measurement and stimulation
GEORGIOS IS. DETORAKIS AND ANTOINE CHAILLET

23. Spiral waves : interface analysis in a neural field
AYTUL GOKCE, STEPHEN COOMBES AND DANIELE AVITABILE

25. Breakdown of invariant curves and resonance structure in phase-amplitude response maps
ORIOLE CASTEJÓN, ANTONI GUILLAMON AND GEMMA HUGUET

27. Robust super-polynomial pattern storage in Hopfield networks
CHRISTOPHER HILLAR AND NGOC M. TRAN

29. Nonlinear filtering of a stochastic neural mass model
H. HINTERLEITNER AND E. BUCKWAR

31. Effects of sprouting and excitation-inhibition imbalance on seizure-like activity
CHRISTOPHER KIM, AJITH PADMANABHAN, ULRICH EGERT, STEFAN ROTTER, ARVIND KUMAR

33. Canard mediated dynamics in a phantom Burster
ELIF KÖKSAL ERSÖZ, MATHIEU DESROCHES, MACIEJ KRUPA AND FRÉDÉRIQUE CLÉMENT

35. Neural field model with the power law response function
NATALIYA KRAYNYUKOVA AND TATJANA TCHUMATCHENKO

37. Front propagation in stochastic neural fields
JENNIFER KRÜGER AND WILHELM STANNAT

39. Finite-size effects on traveling waves in neural fields
EVA LANG AND WILHELM STANNAT

41. Estimation of inhibitory response latency: the problem of detecting non-spikes
MARIE LEVAKOVA

43. Non-Gaussian fluctuations and phase transition for a population of neurons within spatial interactions
ERIC LUÇON AND WILHELM STANNAT

45. Neural field models with dendrites
MICHELLE MARGETTS, STEPHEN COOMBS AND DANIELE AVITABILE

47. Unique effects of channel noise in a conductance-based model of slow wave parabolic bursting
MARILYN GATICA, JEAN PAUL MAIDANA, MAURICIO CAVIEDES, PATRICIO ORIO

49. Impact of delayed interactions on the dynamical properties of spiking neural networks
AGOSTINA PALMIGIANO, MICHAEL MONTEFORTE AND FRED WOLF

51. From time to phase: temporal delay drives theta phase precession in the hippocampus
ELEFThERIA K PISSADAKI

53. Elements of a finite-size ergodic theory in balanced spiking networks
MAXIMILIAN PUELMA TOUZEL, MICHAEL MONTEFORTE AND FRED WOLF

55. Uniform propagation of chaos in mean fields
JAMIL SALHI AND JAMES MACLAURIN

57. Nonlinear noisy integrate and fire neuron models: delay and excitatory-inhibitory populations
MARÍA JOSÉ CÁCERES GRANADOS, JOSÉ ANTONIO CARRILLO DE LA PLATA AND RICARDA SCHNEIDER

59. Wild dynamics in nonlinear integrate-and-fire neurons: mixed-mode bursting, spike adding and chaos
JUSTYNA SIGNERSKA-RYNKOWSKA, JONATHAN TOUBOUL AND ALEXANDRE VIDAL

61. Parameter inference from hitting times for perturbed leaky integrate and fire neuronal models
MASSIMILIANO TAMBORRINO AND SUSANNE DITLEVSEN

63. A fast algorithm to simulate first hitting times of general curve by a one dimensional brownian motion
SAMUEL HERRMANN AND ETIENNE TANRÉ

65. A new definition of the firing time for stochastic leaky integrate and fire neuronal models
ROBERTA SIROVICH, LAURA SACERDOTE AND LUISA TESTA

67. Coarse grained analysis of patterned activity in a discrete-time neural network
KYLE WEDGWOOD AND DANIELE AVITABILE

69. Multiple independence tests for point processes by permutation methods: a unitary events approach based on delayed coincidence count
MÉLISANDE ALBERT, YANN BOURET, MAGALIE FROMONT AND PATRICIA REYNAUD-BOURET

71. Inference of neuronal network topology: a sparse reconstruction approach
GIACOMO ALETTI, GIOVANNI NALDI AND THIERRY NIEUS

73. Spatio-temporal geometry of motion perception in primary visual cortex
DAVIDE BARBIERI, GIOVANNA CITTI, GIACOMO COCCI AND ALESSANDRO SARTI