1. Anna Song (ENS Paris) and Olivier Faugeras.  
   *Influence of spatial context over color perception: unifying chromatic assimilation and simultaneous contrast into a neural field model.*

2. Zachary Kilpatrick (University of Colorado Boulder) and Nikhil Krishnan and Daniel Poll.  
   *Synaptic efficacy shapes resource limitations in working memory.*

3. Émilie Soret (Inria), Olivier Faugeras and Etienne Tanré.  
   *Mean field limit for neural network with random synaptic weights.*

   *Mean-Field and Hydrodynamic limits for the Fitzhugh-Nagumo model.*

5. Benoit Duchet (University of Oxford) and Rafal Bogacz.  
   *Taking the data-driven route to identifying dynamics in movement disorder time-series.*

   *Cooperative ion channels enable short-term memory via persistent activity.*

7. Janus Lind (Univ. of Copenhagen), Andreas Grasskamp, Alexander Walter, Susanne Ditlevsen and Jakob Balslev Sørensen.  
   *Stochastic simulations of synaptic facilitation in Drosophila neuromuscular junction.*

8. Wilhelm Braun (Univ. of Ottawa and Univ. Bonn) and André Longtin.  
   *Understanding temporal correlations in networks of spiking neurons.*

9. Hector Olivero (Inria), Mireille Bossy and Joaquin Fontbona.  
   *Synchronization of stochastic mean field networks of Hodgkin-Huxley neurons with noisy channels.*

10. Quentin Cormier (Inria).  
    *Steady-states analysis of a mean-field model of interacting neurons.*
11. **Dora Karvouniari (Inria)**, Lionel Gil, Olivier Marre, Serge Picaud and Bruno Cessac.  
*Pattern formation and criticality in the developing retina.*

12. **Paul Manz (Univ. of Bonn)**, Sven Goedeke and Raoul-Martin Memmesheimer.  
*Designing spike chaos by changing single neuron properties.*

13. **Benjamin Aymard (Inria)** and Romain Veltz.  
*Mean field approximation of a AdExp neural network based on stochastic spiking event.*

14. **Karina Kolodina (Norwegian Univ. of Life Sciences (NMBU))**, Vadim Kostrykin and Anna Oleynik.  
*Stationary periodic solutions in the Amari model.*

15. **Sakura Rai (Tokyo Univ. of Science)**, Mayu Aoki, Yutaka Shimada, Kantaro Fujiwara and Tohru Ikeguchi.  
*Investigation of ISO Generated by Dopaminergic Modulation and Inhibitory Synaptic Learning*

16. **Jaime Gomez-Ramirez (Centre for Research in Neurodegenerative Diseases Fundación Reina Sofia)**.  
*Understanding resting state fMRI connectivity with persistent homology.*

17. **Selma Souihel (Inria)** and Bruno Cessac.  
*A 2D connected retinal model for processing simple and complex motion features.*

18. **Nathalie Gayraud (Inria)** and Maureen Clerc.  
*Covariate Shift Adaptation using Optimal Transport.*

19. **Maria Masoliver Vila (Universitat Politècnica de Catalunya)** and Cristina Masoller.  
*Subthreshold signal encoding in coupled FitzHugh-Nagumo neurons.*

20. **Weronika Wojtak (University of Minho)**, Flora Ferreira, Estela Bicho and Wolfram Erlhagen.  
*Numerical continuation of solutions of neural field equations with oscillatory coupling functions.*

*Optogenetic investigation of dopamine antagonists effects on the prefrontal cortex dynamics.*

22. **Masud Ehsani (Max Planck Institute for Mathematics in the Sciences)** and Pau Vilimelis Aceituno.  
*Synaptic time-dependent plasticity and transmission speed increase.*
23. Pascal Helson (Inria).
   *A Mathematical approach on memory capacity of simple synapses models.*

24. Giuseppe Ilario Cirillo (University of Cambridge) and Rodolphe Sepulchre.
   *A model of hyperpolarized bursting.*

25. Pierre Roux (Institut de Mathématique d’Orsay).
   *The Noisy Network Leaky Integrate and Fire model for neurons with a transmission delay.*

26. Alberto Pérez-Cervera (Universitat Politècnica de Catalunya), Gemma Huguet and Tere M. Seara.
   *Numerical computation of Phase Response Curves using the parameterization method.*

27. Michael Forrester (University of Nottingham).
   *The role of node dynamics in shaping emergent structure-function relations in a neural-mass network.*

   *Control of clustered action potential firing in a mathematical model of entorhinal cortex stellate cells.*

29. Maria Masoliver (Universitat Politècnica de Catalunya), Cristian Estarellas Martin, Claudio Mirasso and Cristina Masoller. *Characterizing spike sequences generated by different neuronal models via ordinal time-series analysis.*

30. Wenqi Wu (Max Planck Institute for Dynamics and Self-Organization) and Fred Wolf.
   *A detailed Hebbian learning model for orientation map development.*

31. Giacomo Ascione (Università di Napoli) and Enrica Pirozzi.
   *Fractional noise model with stochastic drift for neuronal dynamics including memory effects.*

32. Axel Dolcemascolo (INPHYNI lab, Sophia Antipolis, France), Francesco Marino, Romain Veltz and Stéphane Barland.
   *Experimental analysis and mean-field dynamics of a fully connected network of spiking neuromorphic device.*

33. Michael Fundator (National Academies of Sciences, Engineering, and Medicine, USA.)
   *Applications of Multidimensional Time Model for Probability Cumulative Function to model stimulations of single fiber vs. a bundle.*
34. **Suchitra S (University of Hyderabad)** and Vipin Srivastava.  
   *Pattern separation and error correction in an attractor neural network with Gram-Schmidt orthogonalization.*

35. **Anca Radulescu (SUNY New Paltz)** and Simone Evans.  
   *Dynamic networks with complex discrete nodes.*

36. **Altyn Zhelambayeva (Nazarbayev University)** and Hernando Ombao.  
   *Dimensionality reduction of brain signals of rats by Spectral Principal Component Analysis (SPCA).*

37. **Ho Ka Chan (University of Sussex)** and Thomas Nowotny.  
   *Detection of correlations in input signals with a small neural circuit.*

38. **Tristan Aft (College of Charleston)**, Sorinel Oprisan, Mona Buhusi and Catalin Buhusi.  
   *A mathematical model of hippocampus lesions based on temporal maps for interval timing.*

39. **Dave Austin (College of Charleston)** and Sorionel A. Oprisan.  
   *Phase resetting in response to multiple stimuli per cycle of neural activity.*

40. **Cecilia Romaro (FFCLRP - University of São Paulo (USP))**, Renan Shimoura, Vinicius Cordeiro, Nilton Kamiji and Antônio Carlos Roque.  
   *Boundary conditions for a spatially extended cortical microcircuit model.*

41. **Yan Hao (Hobart and William Smith Colleges)** and Daniel Graham.  
   *Simulating efficient routing protocols in primate brain networks.*