

**Список основных публикаций официального оппонента Неймана А.Б. по теме
диссертации Семёновой Н.И.**

1. Afraimovich VS, Neiman AB. Weak transient chaos. In: *Advances in Dynamics, Patterns, Cognition: Challenges in Complexity*, edited by Aranson IS, Pikovsky A, Rulkov NF, Tsimring LS. Springer, 2017, p 3-12.
2. Kromer JA, Schimansky-Geier L, Neiman AB. Emergence and coherence of oscillations in star networks of stochastic excitable elements. *Physical review. E.* 2016; 93:042406.
3. Amro RM, Lindner B, Neiman AB. Phase Diffusion in Unequally Noisy Coupled Oscillators. *Physical review letters.* 2015; 115(3):034101.
4. Bashkirtseva I, Neiman AB, Ryashko L. Stochastic sensitivity analysis of noise-induced suppression of firing and giant variability of spiking in a Hodgkin-Huxley neuron model. *Physical review. E.* 2015; 91(5):052920.
5. Amro RM, Neiman AB. Effect of bidirectional mechanoelectrical coupling on spontaneous oscillations and sensitivity in a model of hair cells. *Physical review. E.* 2014; 90(5-1):052704.
6. Gong X, Moses G, Neiman AB, Young T. Noise-induced dispersion and breakup of clusters in cell cycle dynamics. *Journal of theoretical biology.* 2014; 355:160-9.
7. Schwabedal JT, Neiman AB, Shilnikov AL. Robust design of polyrhythmic neural circuits. *Physical review. E.* 2014; 90(2):022715.
8. Assanov GS, Zhanabaev ZZ, Govorov AO, Neiman AB. Modelling of photo-thermal control of biological cellular oscillators. *The European physical journal. Special topics.* 2013; 222(10):2697-2704.
9. Bashkirtseva I, Neiman AB, Ryashko L. Stochastic sensitivity analysis of the noise-induced excitability in a model of a hair bundle. *Physical review. E.* 2013; 87(5):052711.
10. Bauermeister C, Schwalger T, Russell DF, Neiman AB, Lindner B. Characteristic effects of stochastic oscillatory forcing on neural firing: analytical theory and comparison to paddlefish electroreceptor data. *PLoS computational biology.* 2013; 9(8):e1003170.
11. Sonnenschein B, Zaks MA, Neiman AB, Schimansky-Geier L. Excitable elements controlled by noise and network structure. *The European Physical Journal Special Topics.* 2013; 222(10):2517-2529.
12. Rowe MH, Neiman AB. Information analysis of posterior canal afferents in the turtle, *Trachemys scripta elegans*. *Brain research.* 2012; 1434:226-42.

профессор факультета физики и астрономии
университета Огайо
Department of Physics and Astronomy
Ohio University, Athens, Ohio 45701, USA

Professor and Chair
Department of Physics & Astronomy,
Ohio University, Athens, OH 45701, USA

A. Neiman
5-31-17 Нейман Александр Борисович

David C. Ingram

DEPARTMENT OF PHYSICS & ASTRONOMY
CLIPPINGER RESEARCH LAB
OHIO UNIVERSITY
ATHENS, OH 45701