CCSU
DEPARTMENT OF MATHEMATICAL SCIENCES

COLLOQUIUM

Friday, May 6
3:00 – 4:00 PM
Maria Sanford, Room 101

COMPLEX ANALYSIS AND BOUNDS ON THE NUMBER OF PERIODIC SOLUTIONS OF DIFFERENTIAL EQUATIONS WITH AN APPLICATION TO A NEURAL MODEL

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Part 2: An Application to a Neural Model

ABSTRACT

Ilyashenko's method is applied to a well-known model of a neuron or a pool of neurons.

Remark: Both talks are based on the paper *Complex Methods for Bounds on the Number of Periodic Solutions with an Application to a Neural Model*, American Mathematical Monthly, February 2022. The paper is available to open-access download at
https://maa.tandfonline.com/doi/full/10.1080/00029890.2022.2005389#.Yly9QNPMLIU

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