

## Midwest Topology Seminar

*Some strange phenomena in the motivic stable homotopy groups*

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**Abstract:** I will describe some recent discoveries concerning motivic stable homotopy groups over  $\mathbb{C}$  and over  $\mathbb{R}$ . These include some surprises, which suggest that motivic stable homotopy groups are less like their classical counterparts than we had anticipated. Some examples are: 1) new families of non-nilpotent elements. 2) periodicities other than  $v_n$ -periodicity. 3) non-classical values for the image of  $J$ . Parts of this talk overlap with work of Michael Andrews, Dan Dugger, Bogdan Gheorghe, Bert Guillou, and Zhouli Xu.

Saturday, February 28 at 11:30 AM in Lecture Center F, Room 4