

Structures and Computations in the Motivic Stable Homotopy Categories

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A fundamental question in classical stable homotopy theory is to understand the stable homotopy groups of the spheres. A relatively new method is via the motivic approach. Motivic stable homotopy theory has an algebro-geometric root and closely connects to questions in number theory. Besides, it relates to the classical and the equivariant theories. The motivic category has good properties and allows different computational tools. I will talk about some of these properties and computations and will show how it relates to the classical and equivariant categories. This is joint work with Tom Bachmann, Guozhen Wang, and Zhouli Xu.

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