Motivic and Equivariant Stable Homotopy Groups (3/3)

vendredi 10 juillet 2020 15:30 (1 heure)

I will discuss a program for computing C2-equivariant, $\mathbb{R}$-motivic, $\mathbb{C}$-motivic, and classical stable homotopy groups, emphasizing the connections and relationships between the four homotopical contexts.
The Adams spectral sequence and the effective spectral sequence are the key tools. The analysis of these spectral sequences break into three main steps: (1) algebraically compute the E2-page; (2) analyze differentials; (3) resolve hidden extensions. I will demonstrate a variety of techniques for each of these steps.
I will make precise the idea that $\mathbb{C}$-motivic stable homotopy theory is a deformation of classical stable homotopy theory. I will discuss some future prospects for homotopical deformation theory in general.

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