Triinu Veeorg, University of Tartu

"Daugavet and Delta-points in Lipschitz-free spaces"

In this talk we study Daugavet and Δ-points in Lipschitz-free spaces. A norm one element x of a Banach space is a *Daugavet point* (respectively, a Δ-*point*) if every slice of the unit ball (respectively, every slice of the unit ball containing x) contains an element that is almost at distance 2 from x. We provide a characterization for Daugavet points in Lipschitz-free spaces, and apply this result to construct an example of a Lipschitz-free space that is isomorphic to ℓ_1 and also contains a Daugavet point. Furthermore, we take a look at several results concerning Δ-points in Lipschitz-free spaces, including a characterization for Δ-points among convex combinations of molecules, as well as a different characterization for Δ-points that are molecules.