Speaker: Thomas Huettemann

Title: From topology to strongly graded algebra

Abstract:

Finiteness properties of topological spaces are relevant in many areas of topology (e.g. manifold theory) and algebra (e.g. geometric group theory). Starting from a specific homological result on "finite domination" going back to Ranicki and others, I will explain how seemingly simple generalisations lead to unexpected complications, and how strongly graded algebra provides a natural setting to formulate statements and proofs.