

# Topology Seminar

**Gonalo Tabuada**

of MIT will be speaking on

## The Fundamental Theorem via Derived Morita Invariance, Localization, and $\mathbb{A}^1$ -Homotopy Invariance

on Monday, November 21 at 4:30 pm in  
MIT Room 2-131

We prove that every functor defined on dg categories which is derived Morita invariant, localizing, and  $\mathbb{A}^1$ -homotopy invariant, satisfies the fundamental theorem. As an application, we recover, in a unified and conceptual way, Weibel and Kassel's fundamental theorems in homotopy algebraic K-theory, and periodic cyclic homology, respectively.

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