

A cofibration category structure on the category of directed graphs

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I will discuss a cofibration category structure on a category of directed graphs with path homology equivalences as the weak equivalences. As time allows, I will discuss possible applications of such a structure to defining-theories of categories of graphs, with an eye towards what problems such a construction might address. This talk is based on joint work with Daniel Carranza, Brandon Doherty, Chris Kapulkin, Maru Sarazola, and Liang Ze Wong.

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