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Title: Revisiting topological fixed point theory

Abstract: I will talk about work in progress joint with Oscar Harr. We recast some aspects of the fixed point theory of topological spaces using categorical trace methods and the six functor formalism of sheaves of spectra. This allows us deduce the Lefschetz fixed point formula as a straightforward consequence of a trace computation in the category of spans. Moreover, using the category of completed cosheaves we directly relate the fixed point indices to the Reidemeister trace and give a conceptual proof of the Nielsen fixed point theorem.