Identity and (De)Categorification

In my paper I consider the issue of identity (i) in Frege’s Grundlagen and (ii) in the category-theoretical framework, particularly in the recent program of “categorification” proposed by Baez and Dolan. While Frege supposes identity to be an unique universal logical concept, the program of categorification aims to diversification and systematic weakening of the notion of identity (providing an exact meaning of colloquial mathematical talk about identity “up to” certain equivalence). I also compare Frege’s concept of abstraction with that of decategorification introduced by Baez and Dolan, and provide a simple example illustrating the phenomenon of stabilization in n-categories. Finally I touch upon some general philosophical questions concerning the category-theoretic account of identity.