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Julia E Bergner* (jbergner@ucr.edu). *Models for equivariant $(\infty, 1)$ -categories.*

Recent results of Stephan give conditions under which a cofibrantly generated model category has an equivariant analogue, where the objects have a group action and weak equivalences and fibrations are defined via fixed point objects. We apply his results to several models for $(\infty, 1)$ -categories. For discrete groups, all of these models satisfy the required conditions. Applying a result of Bohmann-Mazur-Osorno-Ozornova-Ponto-Yarnall, we get an extension to the equivariant setting of the Quillen equivalences between their respective model categories. For actions of simplicial groups or compact Lie groups, we need to restrict to those models which have the additional structure of a simplicial or topological model category, respectively. (Received September 03, 2014)