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Kun Wang* (kwang@math.ohio-state.edu), 231 W 18th Ave, Columbus, OH 43210. *Group actions on CAT(0)-spaces and the Farrell-Jones conjecture*. Preliminary report.

In this talk, I will propose a new type of group actions, generalizing the notion of proper group actions. Many non-proper group actions on CAT(0)-spaces are of this type, typically stabilizers of these actions can be infinite. The motivation for the introduction of such actions arises from the study of the Farrell-Jones Conjecture for groups admitting “nice” but not necessary proper actions on CAT(0)-spaces. (The conjecture is known to be true for CAT(0)-groups by works of A. Bartels, W. Lueck and C. Wegner). I will then present some results obtained so far to show how this notion of group actions can be applied to the study of the Farrell-Jones conjecture. (Received January 24, 2014)