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Wolfgang Lueck* (lueck@math.uni-muenster.de), Mathematisches Institut, WWU Muenster, 48149 Muenster, Germany. *The Burnside Ring, Equivariant Stable Cohomotopy and the Segal Conjecture for Infinite Groups.*

In a paper from 2005 we propose several definitions for the Burnside ring of an infinite discrete group. We introduce stable equivariant cohomotopy for proper cocompact G - CW -complexes. We formulate a version of the Segal Conjecture for infinite groups in this setting. We have now finished the proof of it in the setting of infinite discrete groups. This is the topic of the talk. (Received January 18, 2008)