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Boris Okun* (okun@uwm.edu) and **Richard Scott**. *On Atiyah Conjecture for right-angled Hecke-von Neuman Algebras.*

Given an action of a Coxeter group on a space, one can define so-called weighted L^2 -cohomology of the space. Depending on the weights, this theory interpolates between the compactly supported cohomology, the L^2 -cohomology, and the usual (infinitely supported) cohomology. Moreover, in this situation, one can also define the weighted L^2 -Betti numbers, which turn out to be continuous functions of weights. A version of the Strong Atiyah Conjecture predicts possible values of these numbers. We prove it for a dense subset of rational weights for right-angled groups. (Received September 03, 2012)