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Dan Boros* (boros@math.ohio-state.edu), Ohio State University, Department of Mathematics, 231 W 18 Ave, Columbus, OH 43210. *On weighted ℓ^2 -Betti numbers of Coxeter groups*. Preliminary report.

We provide explicit calculations of weighted ℓ^2 -Betti numbers for some concrete examples of right-angled Coxeter groups. Most of the examples considered have one-dimensional or two-dimensional nerve. (Received September 22, 2010)