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Leonid Slavin* (leonid.slavin@uc.edu). *Exponential estimates for square functions on α -trees.*

I will present new exponential estimates that use the dyadic square function and generalize the Chang-Wilson-Wolff theorem. These estimates translate to α -trees, which are constructs similar to dyadic grids, but with less rigidity. In turn, such trees arise on spaces of homogeneous type, thus enabling new exponential analysis in such settings. (Received August 27, 2013)