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Judith A Packer* (packer@colorado.edu), Department of Mathematics, Campus Box 395,
Univeristy of Colorado, Boulder, Boulder, CO 80309-0395. *Wavelets for higher-rank graph*
 C^ -algebras*. Preliminary report.

This talk will concern recent developments in the study of wavelets for higher-rank graph C^* -algebras. In our setting, the Hilbert space is L^2 of the infinite path space associated to the finite k -graph being studied, with respect to a specified probability measure determined by that graph, and isometries and partial isometries associated to the k -graph play the role of dilation and translation operators. The talk involves ongoing joint works with Carla Farsi, Elizabeth Gillaspay, Palle Jorgensen, Antoine Julien and Sooran Kang. (Received February 03, 2018)