1120-46-225 **Judith A. Packer*** (packer@colorado.edu), Department of Mathematics, Ubniversity of Colorado, Boulder, CB 395, Boulder, CO 80309-0395. *Wavelets and frames associated to representations of higher-rank graph algebras.* Preliminary report.

Here we discuss notions of wavelets and frames defined on L^2-spaces for fractal-like sets associated to certain representations of higher-rank graph C^*-algebras, where the graphs in question are finite and strongly connected. We generalize work of M. Marcolli and A. Paolucci for Cuntz-Krieger C^*-algebras and obtain the wavelets and frames using the isometries and partial isometries that generate the C^*-algebras in question. This work is joint with C. Farsi, E. Gillaspy, and S. Kang. (Received February 22, 2016)