Victor Kaftal* (kaftal@math.uc.edu), Department of Mathematical Sciences, University of Cincinnati, PO Box 210025, Cincinnati, OH 45221-0025, and David Larson and Shuang Zhang.

Operator-valued frames over Hilbert C*-modules. Preliminary report.

We introduce the notion of operator-valued frames over Hilbert C*modules and study its various properties. A natural application is to (vector) frames of infinite multiplicity and in particular to subrepresentions of the left regular representation with infinite multiplicity of a discrete group. In the case of ICC groups (factorial case) we prove the norm-connectedness of the operator-valued frames. (Received September 28, 2005)