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Deguang Han and **David R. Larson*** (larson@math.tamu.edu), Department of Mathematics, Texas A&M University, College Station, TX 77843, and **Bei Liu** and **Rui Liu**. *Operators, wavelets and frames*.

We develop a general dilation theory for operator-valued measures. This completely generalizes the known dilation theory for frames. Moreover our methods extend to obtain new dilation results for maps between operator algebras. (Received January 27, 2012)