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**David R. Larson\*** (larson@math.tamu.edu), Department of Mathematics, College Station, TX 77845, and **Deguang Han, Bei Liu** and **Rui Liu**. *Operator-valued measures, dilations and frame theory*.

In a recent article (AMS memoir) we developed a general dilation theory for operator valued measures and maps between von Neumann algebras that include maps that are not necessarily completely bounded. In a subsequent article (JFA) we obtained some results for dilations of operator-valued systems of imprimitivity. Our main results state that any operator-valued measure, not necessarily completely bounded, always has a dilation to a projection-valued measure acting on a Banach space, and every bounded linear map, again not necessarily completely bounded, on a Banach algebra has a bounded homomorphism dilation acting on a Banach space. These results lead to some new connections between frame theory and operator algebras. (Received September 12, 2014)