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**DEGUANG HAN**, University of Central Florida

*Frames, dilations and related problems*

Motivated by the Banach space nature of framing dilation established by D. Han, P. Casazza and D. Larson, we establish a general dilation theory for operator valued measures and maps between von Neumann algebras that include maps that are not necessarily completely bounded. Our results lead to some new connections between frame theory and operator algebras. This is a joint work with D. Larson, Bei Liu and Rui Liu.