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报告摘要：Dilation theory is a natural paradigm for quantitative complemented-embeddings between Banach spaces by way of exhibiting vectors or operators as the complemented-compression of those which are well-behaved in bigger & better Banach spaces. From 2014 (Memoirs A.M.S.) till now, we focus on Banach dilation theory from frame decompositions and operator-valued measures (OVMs) on (reflexive) Banach spaces to the latest non-commutative cases on projection lattices of vN-algebras and operators on Banach spaces. We construct the minimal dilation for quantum OVMs from projection lattices of finite vN-algebras without type I_2 direct summand to B(X) where the Banach space X is the sequence spaces lp (p<2) or has Shur property. It's surprising for us that the non-commutative dilation closely relies on concrete Banach space geometric properties. By non-commutative projection-partition

tree technique, we obtain the dilation for quantum OVMs with bounded p-variation, which have natural examples on completely bounded maps and non-commutative Lp spaces (p>2).

欢迎各位老师和同学参加！

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