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Danny Crytser* (dcrytser@stlawu.edu), 118 Valentine Hall, St Lawrence University, Canton, NY 13617. *Unique extension and expectation properties for graph and groupoid C^* -algebras.* Preliminary report.

We consider the problem of when an inclusion $A \subset B$ has a variety of largeness properties, such as unique extension of pure states or unique (conditional or pseudo-) expectation, using previous work of Pitts and Zarikian. In the case of groupoid C^* -algebras, some of these are related to previously-understood properties of groupoids. In particular, we show that $C_0(G^{(0)}) \subset C^*(\text{Iso}^\circ(G))$ has unique conditional expectation if and only if G is topologically principal. We consider similar problems for graph and k -graph C^* -algebras. (Received September 24, 2018)