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Mitch Hamidi* (mhamidi@huskers.unl.edu). *Admissibility of C^* -Covers and Crossed Products of Operator Algebras.*

Let (\mathcal{A}, G, α) be an operator algebra dynamical system, where $\alpha : G \curvearrowright \mathcal{A}$ is the action of G on \mathcal{A} by completely isometric automorphisms. We say a C^* -cover for \mathcal{A} is α -*admissible* if α extends to an action of G on the C^* -cover which yields a C^* -dynamical system with an appropriate equivariance property. We discuss new examples of C^* -covers that fail to be admissible for a given dynamical system and provide a new characterization for α -admissibility in terms of a C^* -cover's boundary ideal structure. We then consider ways to extend the dynamics using a partial crossed product construction. (Received September 25, 2018)