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Justin R. Peters* (peters@iastate.edu), Department of Mathematics, Carver Hall, Iowa State University, Ames, IA 50011. *Semi-crossed products and their C*-envelopes*. Preliminary report.

Given a dynamical system (X, φ) with X compact Hausdorff and $\varphi : X \rightarrow X$ continuous and surjective, there is a 'minimal' homeomorphism extension which is unique in the sense that any two such extensions are homeomorphic.

Given a dynamical system (X, φ) the C*-envelope of the semi-crossed product $C(X) \times_{\varphi} \mathbb{Z}^+$ has been characterized by others in terms of C*-correspondences. Here we attempt to characterize it in terms of the crossed product with respect to the minimal homeomorphism extension. (Received July 15, 2006)