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Funda Gultepe* (funda.gultepe@utoledo.edu), department of mathematics and statistics,
University of Toledo, Toledo, OH 43606, and **Christopher J. Leininger** and **Witsarut Pho-on.**
A Cannon-Thurston map for the surviving curve complex of a punctured surface.

Given a hyperbolic 3- manifold which fibers over the circle with hyperbolic surface fiber, the inclusion map between the fiber and the manifold can be extended continuously to a map, resulting in a space-filling Peano curve. This type of continuous extension of a map to between corresponding boundaries is called a Cannon-Thurston map. Using Birman exact sequence for mapping class groups, we will explain how to construct a Cannon-Thurston map for the boundary of 'surviving' curve complex of a surface with punctures. This is a joint work with Christopher J. Leininger and Witsarut Pho-on. (Received August 13, 2019)