Jeff Lindquist* (jlindquistaccts@gmail.com). Branched Quasisymmetric Mappings and Extensions. Preliminary report.

(Joint work with Pekka Pankka from the University of Helsinki). We investigate a class of maps called branched quasisymmetric mappings (BQS maps) between Q-regular metric spaces. BQS maps are generalizations of quasisymmetric maps that may not be locally injective. We define vertical quasi-isometric mappings (VQI maps) between fixed hyperbolic fillings of bounded turning Q-regular metric spaces. We relate the classes of BQS maps and VQI maps under some mild assumptions. (Received June 30, 2018)