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Huy Dang* (hqd4bz@virginia.edu). *Equal characteristic deformations of Artin-Schreier-Witt covers.*

We study equal characteristic deformations of cyclic covers of curves over an algebraically closed field of positive characteristic. We first examine the notion of Hurwitz tree equipped with the refined Swan conductors of a cyclic action on a formal disc. The existence of such a tree is known to give a necessary condition for the existence of an action whose ramification data fit into it. We prove that the conditions imposed by the Hurwitz tree's structure are also sufficient. (Received September 05, 2019)