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Padmavathi Srinivasan* (psrinivasan41@math.gatech.edu), 686 Cherry Street NW, Atlanta, GA 30332, and **Irene Bouw, Wei Ho, Beth Malmskog, Renate Scheidler** and **Christelle Vincent**. *Zeta functions of curves with many automorphisms.*

We will describe specific families of Artin-Schreier curves with many automorphisms in odd characteristic. These curves admit the action of a large extraspecial group, which helps us compute the zeta functions of these curves over the field of definition of these automorphisms. This generalizes results of Van der Geer and Van der Vlugt from characteristic two, and gives rise to new examples of maximal curves. This is joint work with Irene Bouw, Wei Ho, Beth Malmskog, Renate Scheidler and Christelle Vincent. (Received January 22, 2019)