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Arsen Elkin* (arsen.elkin@gmail.com), Mathematics Institute, University of Warwick, Coventry, CV81EF, England, and **Rachel Pries**. *De Rham cohomology of Artin-Schreier curves in characteristic two*.

We discuss explicit computation of the de Rham cohomology of hyperelliptic curves defined over algebraically closed fields of characteristic two and its application to determination of the Ekedahl-Oort stratification of the moduli space of such curves. (Received September 01, 2011)