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Milagros Izquierdo* (milagros.izquierdo@liu.se), Department of Mathematics, Linköping University, SE-58183 Linköping, Sweden, and **Antonio F Costa** (acosta@mat.uned.es) and **Gabriel Bartolini**. *Automorphisms Groups of Cyclic p-gonal Riemann Surfaces*.

A *cyclic p-gonal* Riemann surface X is a surface admitting a regular p -sheeted morphism on the projective line, the p -gonal morphism. A Riemann surface is *real* if it admits an anticonformal involution, a symmetry, as an automorphism. Real p -gonal surfaces, with p prime, are defined by equations of the form $y^p = Q(x)$, where $Q(x)$ is a polynomial in x . A surface is real p -gonal if the p -gonal morphism commutes with the symmetry.

We calculate all the automorphisms groups of cyclic p -gonal and real p -gonal Riemann surfaces. This is a generalization of the work of Bujalance et al. for hyperelliptic and trigonal Riemann surfaces (Received September 03, 2012)