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Sebastián Reyes-Carocca* (sebastian.reyes@ufrontera.cl), Avenida Francisco Salazar 01145, Temuco, Chile. *On the one-dimensional family of Riemann surfaces of genus q with $4q$ automorphisms.*

Bujalance, Costa and Izquierdo have recently proved that all those compact Riemann surfaces of genus $g \geq 2$ different from 3, 6, 12, 15 and 30, with exactly $4g$ automorphisms form an equisymmetric one-dimensional family, denoted by \mathcal{F}_g .

In this talk, for every prime number $q \geq 5$, we shall explore further properties of each Riemann surface S in \mathcal{F}_q as well as of its Jacobian variety JS .

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