



UNIVERSIDAD  
DE LA FRONTERA

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## SEMINARIO CRUZ DEL SUR

DEPARTAMENTO DE MATEMÁTICA Y ESTADÍSTICA

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### Automorphism Groups of Riemann Surfaces

JENNIFER PAULHUS  
GRINNELL COLLEGE

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ABSTRACT.

Riemann surfaces are classical mathematical objects which are still a hot topic of research today. They are analytic structures which are also manifolds, and there is a natural group action on them (in the form of automorphism groups). As such, we can use analysis, topology, and algebra to study them. This talk will introduce Riemann surfaces and their automorphism groups, focusing on the algebraic side. We will end with some recent research on these automorphisms, as well as applications to Jacobian varieties. This research includes work by, and with, several Chilean colleagues.