

# Abelianization of Fuchsian systems and the volumes of moduli spaces of parabolic bundles in genus 0

Claudio Meneses-Torres

Max Planck Institute for Mathematics  
Vivatsgasse 7, Bonn  
Germany  
claudio.meneses.torres@gmail.com

Joint work with: Sebastian Heller

In this talk I will discuss how the abelianization procedure, a central feature of Hitchin's integrable system, can be used to provide a complex analytic computation of the volumes of moduli spaces of parabolic bundles in genus 0. The computation relies on a choice of Prym variety in which the system decouples, and the volume form acquires a particular simple form.