



*Institute of Mathematical Research
Department of Mathematics*

GEOMETRY SEMINAR

On the abelian automorphism groups of d -gonal Riemann surfaces

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Abstract

Let C be a d -gonal Riemann surface of genus $g \geq (d-1)^2 + 1$, and let G be an abelian (resp. cyclic) automorphism group of C . We will prove that the order of G is bounded from above by $\frac{2d}{d-1}g + 2d$ (resp. $\frac{2d}{d-1}g + d$). The bounds are optimal.

This is a joint work with Xin Lv.

Date: October 8, 2012 (Monday)

Time: 3:00 - 4:00pm

Place: Room 210, Run Run Shaw Bldg., HKU

All are welcome