

GL(2,R) orbit closures of translation surfaces

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We will survey recent results towards the classification of GL(2,R) orbit closures of translation surfaces, including the technique of cylinder deformations and the author's joint results with Aulicino and Nguyen on orbit closures in the minimal stratum in genus 3. We will also discuss joint work with Matheus showing that knowledge of higher dimensional orbit closures can yield finiteness results for certain types of closed orbits.