## Affine invariant manifolds and invariants in Teichmüller dynamics

Martin Möller, Goethe-Universität Frankfurt

This mini-course starts with an introduction to the GL(2,R)-action on the moduli space of flat surfaces and presents basic results on Teichmüller curves and on GL(2,R)-orbit closures. Moreover, we introduce the characteristic invariants of the GL(2,R)-dynamics, Masur-Veech volumes, Lyapunov exponents and Siegel-Veech constants. We conclude with recent results on algebraic estimates for Lyapunov exponents are on large genus asymptotics of these invariants.