Rates of decay of energy via operator semigroups
C. Batty

Abstract. One approach to obtaining rates of decay of energy of damped waves and other similar models is by considering an operator which generates an operator semigroup and finding or estimating the norm of the resolvent on the imaginary axis. This can be converted into a rate of decay of the semigroup by quantified versions of tauberian theorems or by methods of Fourier analysis. I will briefly discuss the outcomes of these methods.

1University of Oxford, U.K. Email: charles.batty@sjc.ox.ac.uk