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Group actions and the symplectomorphism group

Much progress has been made in recent years studying the group of diffeomorphisms which preserve a symplectic form. We will discuss recent advances in this question, focussing on the relationship between this group and its compact subgroups. In particular, we will consider how to use these subgroups to gain information about the group itself, and ways in which it behaves (or does not behave) like a compact group.