## Point symmetry group of the Lagrangian

Aguirre, M., & Krause, J. (1991). Point symmetry group of the Lagrangian. International journal of theoretical physics, 30(11), 1461-1472. <10.1007/bf00675611> Accessed 30 Oct 2022.

## Abstract

The theory of finite point symmetry transformations is revisited within the frame of the general theory of transformations of Lagrangian mechanics. The point symmetry groupG(L) of a given Lagrangian functionL (i.e., the Noether group) is thus obtained, and its main features are briefly discussed. The explicit calculation of the Noether group is presented for two rather simple c-equivalent Lagrangian systems. The formalism affords an introduction to the Noether theory of infinitesimal point symmetry transformations in Lagrangian mechanics; however, it is also of interest in its own right.