

962-22-881

Mireille Boutin* (mboutin@math.umn.edu), School of mathematics, 127 Vincent, 206 Church, S.E., minneapolis, MN 55455. *Curve recognition modulo Lie group action.*

We present a general method based on moving frames to determine whether two curves on a manifold M are the same modulo the action of a Lie group G . An explicit solution will be given for the Euclidean and affine group acting on the plane. (Received September 28, 2000)