THE ORBIT SPACE OF A PROPER GROUPOID

MIGUEL RODRIGUEZ-OLMOS

ABSTRACT. For a proper action of a Lie group on a smooth manifold, the orbit space has a canonical isotropy stratification satisfying conical properties and Whitney conditions. We show how to generalize this picture to the case of the orbit space of a proper groupoid. The main ingredients are a slice theorem due to Weinstein and Zung, and foliation theory.

SECTION DE MATHÉMATIQUES, ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE
E-mail address: `miguel.rodriguez@epfl.ch>`