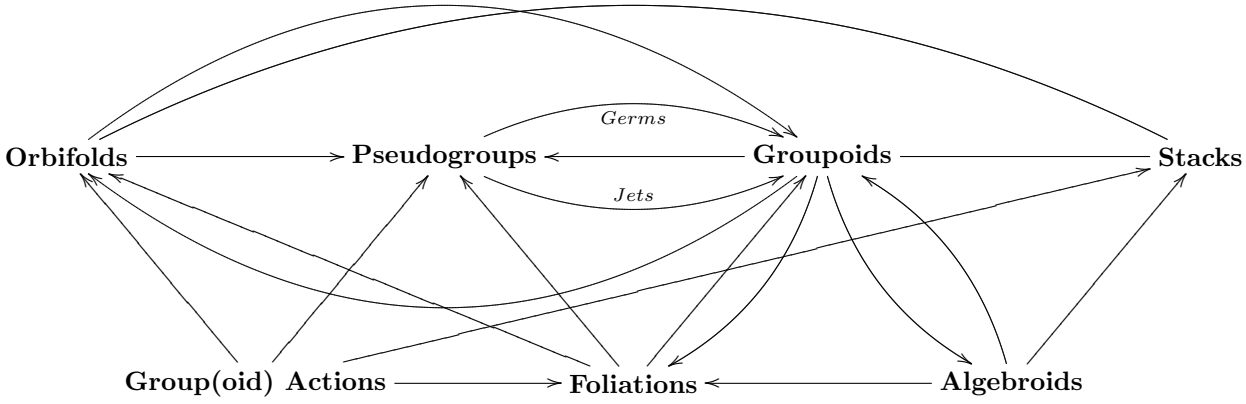
Geometry and Groupoids

The purpose of this series of talks will be understanding several geometric objects naturally related to groupoids, such as orbifolds, actions, foliations, algebroids, pseudogroups and differentiable stacks. These objects are linked to each other in various ways. If time permits, I will explain all their mutual relations, shown in the following chart:



Part 2: from Group(oid)s to Orbifolds

I will show with several examples how orbifolds arise in the context of proper group actions and that the orbit space of an étale, proper Lie groupoid admits a natural orbifold structure.