Seminar on Stacks and Groupoids

THE ISOMORPHISM PRESHEAF AND THE DEFINITION OF A STACK

Sebastian Casalaina-Martin

University of Colorado at Boulder

In this lecture we will introduce the isomorphism presheaf; this is a presheaf associated to a pair of objects of a category fibered in groupoids over a site, lying over the same object in the base category. The sheaf condition determines whether isomorphisms of the two chosen objects can be glued together (uniquely) from isomorphisms obtained after a pull-back. With this definition, we will be able to define a stack.

Tuesday March 30, 2010
4:00 p.m.
MATH 350