

Examples of maps of 2-stacks

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Abstract

Simplicial methods play a fundamental role in many areas of mathematics. In topology, they provide combinatorial models for homotopy of spaces; in algebra, they extend homological methods to non-abelian settings; in geometry, they regard solutions to moduli problems as generalized derived spaces; in category theory, they give a formalism for weak higher categories. The theory of simplicial manifolds is rather new and little is known apart from the important case of Lie groupoids. In this talk I will go a bit beyond and discuss two particular examples of maps of 2-stacks in differential geometry.