

Stanford Department of Mathematics Colloquium

ON NONABELIAN DIFFERENTIAL COHOMOLOGY

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Abstract

Higher structures with connection have been conceived in low dimensionality and/or in sufficiently abelian cases as gerbes with connection or as differential characters. We give a general definition in terms of descent for parallel n-volume transport with values in arbitrary structure n-groups. Concrete realizations are obtained through L-infinity algebra connections and their integration. Examples include Chern-Simons connections and the String-like connections whose existence is obstructed by them.

Thursday, May 29

4:15 p.m.

Room 380-F

<http://math.stanford.edu/coll/0708/>