Relative cohomology for Lie groupoids and algebroids

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Abstract:

In this talk I will introduce the differentiable complex of a Lie groupoid relative to a Lie subgroupoid and its analogous infinitesimal version, the basic subcomplex of the Chevalley-Eilenberg complex of a Lie algebroid. I will explain the main properties of these complexes and how they give a neat and intrinsic construction of characteristic classes for representations of Lie groupoids and Lie algebroids.