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## Differentiation of Lie $n$ -groupoids

*Wednesday 9 February 2022 10:00 (50 minutes)*

As a Lie  $n$ -groupoid is an atlas for an  $n$ -stack in differential geometry, one expects that their differentiation should be the tangent complex of the  $n$ -stack carrying a Lie  $n$ -algebroid structure. However, an explicit differentiation, like that for Lie groupoid, seems to be missing. Inspired by Severa's idea of an infinitesimal object, we perform (spending a lot of years fixing holes :) an explicit differentiation, and reach the tangent complex with a Lie  $n$ -algebroid structure. This is a joint work with Du Li, Rui Fernandes, Leonid Ryvkin and Arne Wessel.

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