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On deformation spaces of Lie groupoids and Lie algebroids

Deformation spaces of Lie groupoids are an important tool in the index theory of pseudodifferential operators. In this talk I will describe the geometric data needed to define a deformation space in the context of Lie groupoids and Lie algebroids, and how differentiation and integration works in this setting. If time permits, I will also explain a related blow-up procedure and describe a "tangent groupoid" for a filtered manifold with boundary.