

The Ambrose-Singer theorem and Lie brackets

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Abstract:

This is a talk in memory of Kiril Mackenzie. The aim of the talk is to revisit the classical theorem of Ambrose-Singer on holonomy of connections using Mackenzie's favorite viewpoint on principal bundles and connections: via Lie groupoids and algebroids. I am not aiming at new results but, hopefully, there will be a couple of new insights and ideas for further generalizations.