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Title: Geometrical structures on Lie algebroids

Author(s): Liviu Popescu

In this paper we study on the prolongation of Lie algebroid the notions such as: nonlinear connection, related connections, torsion and curvature, semispray and complex structures. The case of homogeneous connections and some examples are presented.

Address:

Liviu Popescu University of Craiova Faculty of Economic Sciences 13, Al. I. Cuza st., Craiova Romania *E-mail:* liviupopescu@central.ucv.ro