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## On some families of semi-symmetric metric connections

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**Abstract** - We compare the curvature tensors of the Levi-Civita connection and of some derived semi-symmetric metric connections, in terms of the algebraic properties of specific deformation algebras. In particular, we recover a theorem of K. Yano, on a characterization of constant sectional curvature manifolds.

**Key words and phrases** : semi-symmetric metric connection, constant curvature, deformation algebras

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