

# On the existence of a new connection on a Weyl Manifold

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On a Weyl manifold, the existence of a semi-symmetric recurrent metric connection is proved. We study curvature invariants and their characteristics of manifolds having this connection. Metric tensor of constant scalar curvature and zero curvature spaces in terms of metric recurrence and torsion components are presented, especially. The geodesics structure of the spaces are also studied.

This is joint work with F. Özdemir.

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