

Intrinsic study of generalized horizontal recurrent Finsler connection

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Abstract. The present paper provides an intrinsic generalization of a horizontally recurrent Finsler connection, which we call the generalized horizontally recurrent Finsler connection (GHRF Γ). We establish a proof of the uniqueness and existence theorem of GHRF Γ , investigate relations between the curvature and torsion tensors of Cartan and GHRF Γ , and study some geometric consequences and special cases of GHRF Γ . We give an example in some details with a special case.

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