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Modified gravity with vector distortion and cosmological applications

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I will introduce a geometrical framework with a connection that is fully determined by a vector field as a generalization of Weyl geometry. Within these geometries, it is possible to formulate gravitational theories that lead to interesting vector-tensor theories with non-minimal couplings and derivative self-interactions such that the vector only propagates the 3 polarizations corresponding to a Proca field. I will discuss some cosmological applications of these theories.

Summary

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