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Disformal transformations in modified teleparallelism

We present recent work on disformal transformations in the context of modified gravity based on the teleparallel equivalent of general relativity, and applications to f(T) gravity. We show the implications a disformal transformed tetrad has in the main geometric quantities, and explore the relation with the loss of local Lorentz invariance and the issue of the degrees of freedom in these theories. Finally, we discuss some applications to scalar-torsion gravity models.

Primary authors: GUZMAN, Maria Jose (University of La Serena); GOLOVNEV, Alexey

Presenter: GUZMAN, Maria Jose (University of La Serena)