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Cosmology in metric affine theories of gravity

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The stress energy tensor we all know is related to the existence of a metric. But the metric is not the only character we can take into account when studying a theory of gravity. We can also consider an independent connection. If we do so we will have the hypermomentum tensor in the game too. This can be related to quantities such as torsion and non metricity. What is the role of these quantities? Can we explain some kind of accelerated expansion without relying necessarily on a cosmological constant? These are some of the questions that will be addressed to in this talk.

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