



Contribution ID: 742

Type: **Invited talk in the parallel session**

## Teleparallel, $f(T)$ and Torsional Gravity and Cosmology

*Friday, 9 July 2021 06:30 (20 minutes)*

We review various theoretical models and scenarios based on teleparallel gravity and torsional modifications of gravity. Then we apply them in a cosmological framework, discussing the early and late time solutions as well as the observational constraints using various datasets. Finally we present the recent possibility of using multi-messenger astronomy, in order to investigate torsional modified gravity and test deviations from general relativity.

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**Session Classification:** Extended Theories of Gravity and Quantum Cosmology

**Track Classification:** Alternative Theories: Extended Theories of Gravity and Quantum Cosmology