

# Understanding the dynamical nature of late-time cosmic acceleration from dark energy and $f(T)$ modified gravity

*Monday 1 July 2019 16:20 (45 minutes)*

In this talk I will briefly introduce the present understanding about the cosmic acceleration at present from the perspective of phenomenological study. I will review the latest observational status of the late-time cosmic acceleration and then depict how to do the model building of dynamical dark energy. Afterwards, I will also give an introduction to a type of torsional based modified gravity, which can also realize the cosmic acceleration at present. This so-called  $f(T)$  gravity and beyond theories can be depicted in a language of effective field theory and thus we can examine certain operators that are most connected with various cosmological observations.

**Presenter:** Prof. CAI, Yi-fu (University of Science and Technology of China)

**Session Classification:** Beyond I