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Model agnostic approaches to cosmology

In this talk two cosmological studies will be presented and their results discussed. In these studies we have tried to remain model agnostic as much as possible. In particular, our first study (arxiv:1905.08512) performs dynamical analysis of a broad class of non-minimally coupled real scalar fields in spatially curved Friedmann-Robertson-Walker (FRW) spacetimes with unspecified positive scalar potential. While, the second study (arXiv:2001.00825) performs dynamical analysis of a barotropic fluid with positive energy density but otherwise unspecified Equation of State in spatially curved FRW spacetimes.

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