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A Guidance for Building Dark Energy Models

We discuss in this talk several physical principles as well as emerging observational constraints, as the speed of gravitational waves, that any dark energy model has to face in order to ensure its cosmological viability. In particular dark energy models based on modified gravity theories find a major challenge for addressing the late-time dynamics in a consistent way due to the presence of instabilities. We present a guidance for building dark energy models with some necessary conditions that must be fulfilled, and illustrate this point showing some simple but suitable examples.

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