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Title: Cosmological Redshift Drift Authors: Jaminy, Sanatan Keywords: Cosmology Redshift May-2024 Issue Date: Publisher: IISER Mohali Abstract: The interpretation of most of our cosmological observables is model-dependent. In this regard, Cosmological Redshift drift measurements provide a unique Cosmological probe in the sense that it is a model-independent variable. Herein, we first describe how the phenomenon of redshift arises, and then go on to develop a completely model-independent mathematical description of Cosmological Redshift Drift. We discuss how peculiar veloc- ities and other perturbations might affect drift measurements. Then we go on to see how redshift drift can provide a framework to provide constraints on the parameters of modi-fied theories of gravity. In the end, we also briefly discuss the feasibility of redshift drift measurements. Description: under embargo period

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