

A new analytical approach to linear perturbations in anisotropic inflation has been introduced in JCAP 03(2018)001 under the name of $\delta\mathcal{M}$ formalism. In this talk I introduce $\delta\mathcal{M}$ formalism and apply it to a model of anisotropic inflation driven by a scalar field, coupled to the kinetic term of a vector field with a $U(1)$ symmetry. This formalism provides an efficient way of computing tensor-tensor, tensor-scalar as well as scalar-scalar 2-point correlations that are needed for the analysis of the observational features of an anisotropic model on the CMB. A comparison between $\delta\mathcal{M}$ results and the tedious calculations using in-in formalism shows the aptitude of the $\delta\mathcal{M}$ formalism in calculating accurate two point correlation functions between physical modes of the system.