

In this talk, we will discuss about the inflationary dynamics producing statistical anisotropies in details. We investigate the anisotropic inflation scenario with a charged scalar inflaton field coupled to the gauge field. We then proceed with talking about the CMB signatures of the statistical Anisotropies. We will see, while the level of statistical anisotropy in temperature power spectrum can be small and satisfy the observational bounds, the interactions from the gauge coupling can induce large directional dependence in tensor modes. This will leave interesting anisotropic fingerprints in various correlations involving the B-mode polarization such as the TB cross-correlation which are potentially interesting to be probed observationally.