

Due to many reasons, we expect that in our cosmos, initial conditions and/or evolution of fields behave as stochastic manner. Quantum fluctuations of fields in so-called inflationary epoch and/or various topological phase transitions at the very early universe as the seed of temperature fluctuations at the last scattering surface and also current large scale structures are just some of stochastic fields. Topological and geometrical measures enable us to establish almost robust approaches to quantify mentioned fields. In this talk, I will give a brief explanation about the classification of fields from complex system points of view and then concentrate on some Features. Finally, I will try to setup semi-analytical prediction for clustering of so-called up-crossing and compare them with computational approaches from simulations and real data such as Planck data. I will show some of my recent results regarding Cosmic String Detection in South Pole Telescope (SPT) and directional analysis of large scale structures.