

In this talk I'll review our new setup in modeling local features during inflation. In our picture, we consider the simplest inflationary model, the chaotic  $m^2\phi^2$  where we assume the mass of inflaton changes dynamically suddenly at some point  $\phi = \phi_c$ . We would like to see how a sudden small change in the inflaton effective potential can be modeled in a consistent way without considering ad hoc inflation potentials with features. Then look for its observational consequences in CMB.