Understanding Early and Late time universe

Our mian goal would be to first study theory of early and late time universe and constrain them from observation. Here are few highlights that will be studied;

- 1. Magnetogenesis scenarios and magnetohydrodynamics simulation
- 2. Lattice simulation on the inflatonary dynamics and their potential signatures on CMB, Dark Matter, Gravitational waves
- 3. Late time universe confronting observational data