We propose a method to obtain physical quantities in θ vacuum from those at fixed topology, which are different by finite size effects. Extending the work by Brower et al., we derive the formula to estimate these finite size corrections for arbitrary correlators in terms of the topological susceptibility and the θ dependence. Applying this formula, we show that topological susceptibility can be measured through two point functions of pseudoscalar operator. We also estimate the θ dependence of various quantities in both full and partially quenched theory using chiral perturbation theory.