

Some topology and group actions-II  
Sarang Sane, IITM

**Abstract:** We continue with last week's exposition of some results on  $SU(2)$  and  $SO(3)$  (essentially from chapter 9 of Artin's Algebra) and go on to study some properties of these and other matrix groups (such as viewing them as Lie groups).

**Pre-requisites :** Ideas from last week's talk, Spectral theorem, Quotient topology, Group actions, Idea of a manifold.