

Abstract

First I will briefly review the Weak gravitational lensing as an observational tool. Then I will go to our work on A226 field . This field with the known A226 cluster in its center , is a part of the COMBO17 survey . COMBO17 survey has imaged 1 square degree of sky in 12 narrow band optical filters and five broad band filters. It has deep and sharp R-band data for exploration of weak gravitational lensing. In this work we have analyzed the A226 field by making its convergence map. Convergence peaks show the distribution of the clusters in the field. We cross-checked the results to find the clusters using the weak lensing methods. Then we estimated the mass of each cluster. Fitting NFW profile to the four clusters found in the field, we could get the Virial mass and the other characteristics of them.