

[GC05] Ages of M33 star clusters based on HST/WFPC2 photometry

Won-Kee Park¹, Myung Gyoon Lee¹, Hong Soo Park¹
¹Department of Physics and Astronomy, Seoul National University

We present a photometric study of the star clusters in the Triangulum Galaxy(M33). 105 star clusters including 35 previously unknown ones were found on 24 fields of HST/WFPC2 M33 images. Point-Spread-Function(PSF) fitting photometry was carried out to construct the Color-Magnitude Diagrams(CMD) of star clusters. Ages of 99 star clusters were derived by fitting theoretical isochrones to their observed CMDs. Age distribution of star clusters shows that star clusters were continuously formed in M33 from 10^6 years to 10^9 years.

[GC06] The Study of the Nuclear Regions of the Messier's Galaxies

Yun-Hee Lee, Myeong-Gu Park
Department of Astronomy & Atmospheric Sciences, Kyungpook National University

The double nucleus structure of galaxies such as M31, M83 and NGC4486B provides clues and interesting questions on the structure and evolution of the galactic centers. The aim of this study is to find other candidates for double nucleus galaxies using HST data. We obtained images of 22 galaxies in Messier Catalog whose nuclear parts have been photographed by WFPC II. We analyzed images in more than two passbands to obtain the change of the centroid positions for different isophote levels, the surface brightness profiles, the ellipticities, and the position angles. We looked for the possible signatures of double nuclei from these results.