[구GC-05] Environments of the SDSS Galaxies divided into Fine Classes

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We present a study on the environments of the SDSS galaxies divided into fine classes based on their morphology, colour and spectral features. The SDSS galaxies are classified into early-type and late-type; red and blue; passive, HII, Seyfert and LINER, which returns a total of 16 fine classes of galaxies. We estimate the local number density, target-excluded local luminosity density and local colour as well as the close pair fraction and the luminosity and colour of the brightest pair, which are compared between the fine classes comprehensively. Several interesting results are reported and their implication on galaxy evolution is discussed.

[포GC-06] Spectroscopic study on Seyfert galaxies with CFHT/OSASIS - II

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We observed the circumnuclear regions ($\sim 10''\times 8''$) of Seyfert 2 galaxies, Mrk 34 & NGC 5929 with the OASIS at CFHT telescope on Nov. 2000 & Mar. 2001. We used the OASIS spectrograph which covered the wavelength range of 4800-5500 Å. The spatial sampling of the spectral image is $0''.4$ or $0''.25$, and the wavelength resolution is about 0.95 Å.

We reproduce the [O III] and Hβ monochromatic line-of-sight velocity images ($3''\times 3''$) from ~ 1000 lenslet spectral set using the *XOASIS* reduction package. We analyze the intensity variation of velocities & [O III]/Hβ ratios. We present preliminary results for kinematics of the circumnuclear zone of galaxies.