
Near-infrared color evolution of LMC clusters

J.-M. Kyeong¹, M.-J. Tseng² and Y.-I. Byun³

¹*Korea Astronomy Observatory*

²*Institute of Astronomy, National Central University*

³*Yonsei University Observatory*

In order to construct an empirical correlation between near-infrared colors and cluster ages, we carried out imaging observations in *JHK* for 30 LMC clusters using the Australian National University 2.3m telescope and CASPIR system. Our sample clusters cover ages from 5 Myr to 12 Gyr. We present here the result of our digital integrated photometry, from which we derived representative infrared color indices for each cluster. Near-infrared color indices have been correlated with cluster ages and aperture sizes, and also compared with optical colors. The age dependence of near-infrared color appears to be rather small compared to that of optical colors. The color age relationship also shows scatter somewhat bigger than those in optical correlations.