## UBVI CCD Photometry of M35 (NGC 2168)

Sung, Hwankyung<sup>1</sup>, and Bessell, M. S.<sup>2</sup>

<sup>1</sup>Dept. of Earth Science Education, Kyungpook National Univ., Taegu 702-701

<sup>2</sup>Mount Stromlo & Siding Spring Observatories, Australian

National Univ., Australia

UBVI CCD photometry has been obtained for the intermediate-age open cluster M35 (NGC 2168). From this new photometry we derived the cluster parameters (Vo - Mv =  $9.60 \pm 0.10$ , E(B-V) =  $0.255 \pm 0.024$ ), age (log  $t_{age} = 8.3 \pm 0.3$ ) and a photometric abundance (Z = 0.008, i.e. [Fe/H] = -0.32) from comparison with theoretical isochrones of the Padova group. A minimum binary frequency (35 ± 5%) was estimated from the distribution of distance moduli of unevolved proper motion members. Faint photometric members were selected by using differences in the reddening effect on colour indices.