

PHOTOMETRY OF STARS ON DIGITIZED PLATES FROM THE COLLECTION OF ODESSA ASTRONOMICAL OBSERVATORY

S. KASHUBA¹, V. KASHUBA¹, S. ANDRIEVSKY¹, O. BUCHNIEVA²

¹*Astronomical Observatory of Odesa National University, Marazliivska St.,
1v, Odesa, 65014, Ukraine*

²*Odesa National Academy of Telecommunications, 1 Kuznechna St., Odesa,
65029, Ukraine*

E-mail: sv-k@onu.edu.ua

We present the results of photometry of a number of stars from the database of digitized astroplates from Odessa collection obtained with the help of seven-camera astrograph (1957–1998). The goal of this work is to search for the long-term brightness variations on a time interval of about 30 years.

We would like to note that Odessa Astronomical Observatory possesses the collection of Sky Patrol Plates, which is one of the biggest collection in the world after Harvard and Sonneberg collections. The collection in total consists of about 110,000 photo plates exposed from 1909 to 1998.

It should be noted the importance of maintaining in good conditions and the need to digitize archives of astronomical plates, which may in the future provide a good opportunity for long-term studies of various phenomena recorded on the plates.