

THE MAIN OUTPUT OF THIS WORK IS A COMPUTER SOFTWARE FOR AUTOMATICAL PROCESSING OF SCANNED ASTRONOMICAL PLATES, WHICH COMES FROM EXTENSIVE ARCHIVE FROM GERMANY ASTRONOMICAL OBSERVATION IN SONNEBERG. APPLICATION IS GOING THROUGH THE CONTENT OF THE PLATE DETECTING ALL ASTRONOMICAL OBJECTS WITH PARAMETERS, WHICH ARE DETERMINATED BY USER. FOR CHOSEN OBJECTS IS THEN EXECUTED SPECTRAL ANALYSE AND CONTINGENT STAR CLASIFICATION ACCORDING TO ASTRONOMICAL CATALOGUE OF SPECTRES.