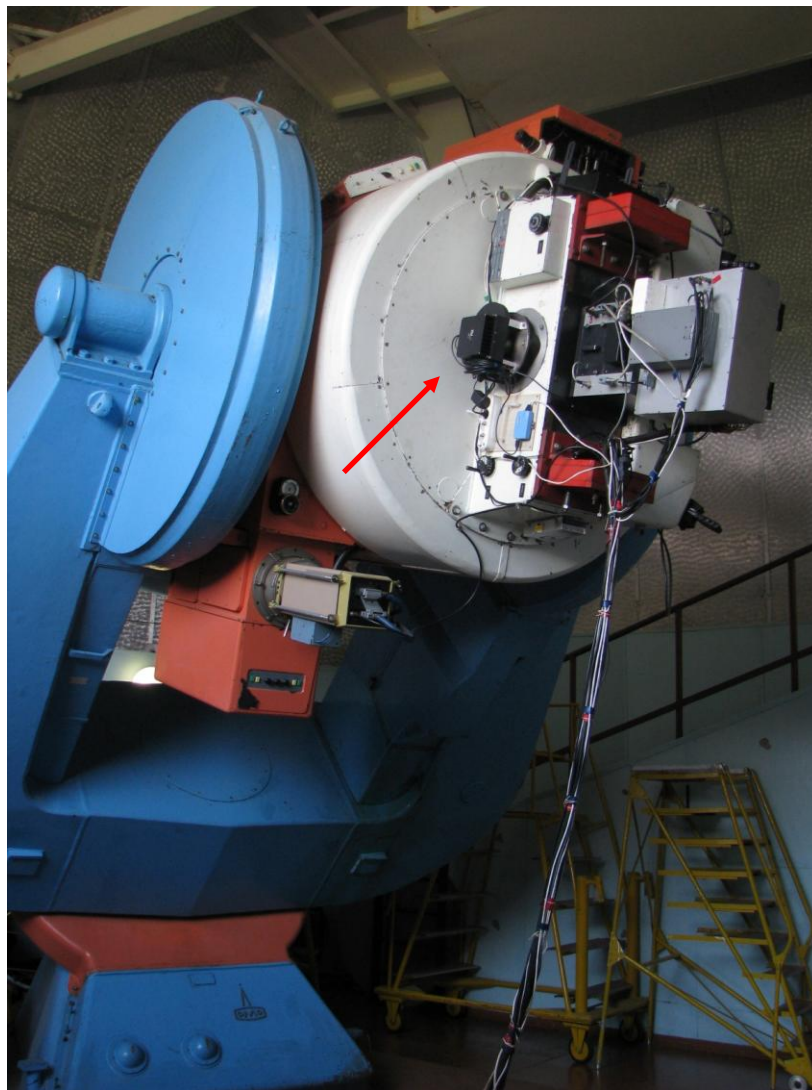


The report on OSUG-funded CCD for CrAO

According to the agreement on collaborative observing the IPAG has lended one new CCD imaging system to the CrAO. The CCD imaging system has been purchased with funding provided by the Labex OSUG@2020 to support collaborative research directed by J. Bouvier. The system consists of a Finger Lakes Instrumentation ProLine PL230 with grade 1 e2v CCD230-42 back-illuminated mid-band imaging camera, a Color Filter Wheel CFW--2-7, 50mm Research Grade RG 50D UBVRI filters, and a Digital Atlas Focuser. These will be collectively referred to hereinafter as “the CCD system”. The CCD system is designed to carry out some joint observations of young stars and planets.

The CCD system has arrived to Simferopol (Crimea) on August, 2nd 2013. Engineers of the Crimean observatory have collected and tested this CCD system on August, 5th 2013. Then the CCD system has been installed on the 1.25m telescope-reflector AZT-11 (<http://crao.crimea.ua> -> Departments -> Laboratory of Stellar Physics -> Telescopes -> AZT - 11). The first observations have been received on August, 8th.



The 1.25m telescope-reflector AZT-11 and new CCD system.

Hundred ten observational nights was available within eight months (since August, 8th 2013 on March, 8th 2014). More than 440 hours of observations have been received with use of this CCD system during this time. The anomalous bad weather took place in September (nine nights) and January (five nights).

Table 1

Month	Number of night	Hours
Aug-13	23	72.70
Sep-13	9	33.82
Oct-13	18	97.18
Nov-13	20	70.18
Dec-13	18	74.58
Jan-14	5	15.20
Feb-14	15	64.58
Mar-14	2	12.07

The CCD system was used for observations more than fifty objects within the limits of several scientific projects. The distribution of observational time under various projects is presented in the Table 2. The received observations are in a stage of processing and the analysis.

Table 2

Project	share in obs. (%)
Dwarf Nova Stars	26.72
IPAG + CrAO	17.24
Active Galactic Nucleus	16.84
White Dwarf	16.07
Cataclysmic Variables	8.36
Extra-Solar Planet Candidates	6.26
NGC 7243 Open Cluster	4.29
Var Star with rapid variations	1.72
Reduction to standard system	1.32
Spotted Stars	0.76
Gamma Ray Burst	0.42