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Invited Lecture

MULTI OBJECT METHODS FOR FINDIND AND STUDY QSO's AND GALAXIES

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My report devoted to the memory of prof. V.L. Afanasiev who played an important role role in developping a new methods of observations on 6-m Telescope and not only on it. I will begin with Multi Slit Field Spectrograph (MSFS) which was created by prof. V.L. Afanasiev in early 80-s - first multi object spectrograph on the large telescope in the world. We use several modifications of MSFS for spectral study of hundreds faint galaxies and QSO's. In the middle of 80's we use MSFS with photon counting system and later with first CCD's. In the beginning of 90's prof. V.L. Afanasiev and our team created Multi Object Fiber Spectrograph (MOFS). Using MOFS we developed a QSO survey of 1-sq. degree field on 6-m Telescope. At the end of 90's in collaboration with french astronomers we developed a new method for detecting high redshift galaxies ("primeval" galaxies) using Multi Band Filters on 2.6-m Byurakan, 3.6-m ESO and on 6-m Telescopes. This work was continued on the 6-m Telescope with Medium Band Filters in the early 2000s, allowing us to find several tens of high redshift galaxies up to z=6. In the middle of 10's in collaboration with armenian astronomers and effisient support of prof. V.L. Afanasiev we restore famouse Byurakan 1-m Schmidt Telescope and began Medium Band Filters Survey on it. Some square degrees of the sky already observed and we obtaned new data about QSO evolution and galaxies large scale distribution.