

**MAIN RESULTS OF 40-YEARS ASTEROID STUDY IN KHARKIV ASTRONOMICAL OBSERVATORY.** I. N. Belskaya<sup>1,2</sup>, D. F. Lupishko<sup>1</sup>, V. G. Shevchenko<sup>1,2</sup>, Yu. N. Krugly<sup>1</sup>, F. P. Velichko<sup>1</sup>, V. G. Chiorny<sup>1</sup>, I. G. Slyusarev<sup>1,2</sup>, O. A. Golubov<sup>1</sup>, A. N. Dovgopol<sup>1</sup>, I. A. Tereschenko<sup>1</sup>, T.A. Hromakina<sup>1</sup>, O. I. Mikhalchenko<sup>1,2</sup>, <sup>1</sup>Institute of Astronomy of V. N. Karazin Kharkiv National University, Sumska Str. 35, Kharkiv 61022, Ukraine, <sup>2</sup>Department of Astronomy and Space Informatics of V. N. Karazin Kharkiv National University

**Introduction:** Systematic study of asteroid physical properties was initiated in Kharkiv Astronomical Observatory in 1977. The first photometric observations of selected main belt asteroids were made in the cooperation with Institute of Astrophysics, Tajikistan at 0.7 m telescope AZT-8 [1]. Since 1983 regular photometric observations of asteroids has been started at Chuguev Observation Station (in 75 km from Kharkiv city) with similar 0.7 m reflector AZT-8 using photoelectric photometer and later CCD cameras. In 1985 the first polarimetric observations of asteroids were initiated together with Crimean Astrophysical Observatory at 1.25 m telescope [2]. Polarimetric observations of selected asteroids were also carried out at Chuguev Observation Station.

**Results:** During 40 years of regular asteroid study in Kharkiv observatory many observational programs have been fulfilled. We investigate physical properties of small bodies of different dynamical classes, which include main belt asteroids, Near-Earth objects, Hilda group asteroids, Jupiter Trojans, Centaurs, and Transneptunian objects. Here we summarize the main results of our study.

**References:** [1] Lupishko, D. F.; Kiselev, N. N.; Chernova, G. P. (1979) *Soviet Astronomy Letters*, vol. 5, p. 108-110 [2] Belskaya, I. N.; Efimov, Y. S.; Lupishko, D. F.; Shakhovskoi, N. M. (1985) *Soviet Astronomy Letters*, vol. 11, p. 116-118.