Astrophysics > Galaxy Astrophysics

Active Galactic Nuclei

Yerbol Farkhatuly Khassen (University of Leeds)

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This work represents the final year project for BSc Physics with Astrophysics degree and it mainly focuses on empirical investigation of the photometry of quasars in the Sloan Digital Sky Survey (SDSS) and the UK Infrared Telescope (UKIRT) Infrared Sky Survey (UKIDSS) systems. The studies include 5730 quasars matched from both surveys and examine UV/optical/near-IR properties of the population. The sample covers the redshift and absolute magnitude ranges $0.01 < z < 3$ and $-29.3 < M_i < -13.8$ and 17 per cent of the SDSS quasars have matching success to the UKIDSS data. The combination of SDSS ugriz with the JHK near-IR photometry from UKIDSS over large areas of the sky has enormous potential for advancing our understanding of quasar population, keeping in mind that these surveys have not reached their terminations.

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