Contribution ID: **11** Type: **not specified**

RESULTS OF PHOTOMETRIC RESEARCH OF AGN MARKARIAN 501 AND MARKARIAN 421 (12+3)

Tuesday 27 April 2021 16:05 (15 minutes)

Hereby we present the results of photometric observations and research of two BL Lacertae objects: Markarian 501 and Markarian 421. The observations were performed with the AZT-8 (D = 70 cm, F = 2.8 m) telescope of the observation station Lisnyky of Astronomical Observatory of Taras Shevchenko National University of Kyiv during 2018-2020. The AZT-8 equipped with the PL4710-1-BB-E2V CCD and broadband Johnson/Bessel UBVRI filters system. The substrate (bias), dark current, flat-field were taken into account during processing. The fluxes of energy from the objects of research with the help of standard stars have been turned into visible stellar magnitudes. Light curves for the observational period, and in case of Mrk 421, light curves during one night, were plotted and examined for apparent magnitude and color index changes. The errors of the above-mentioned observations and calculations were counted.

Author: Mr ORIKHOVSKYI, Dmytro (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Co-authors: SIMON, A.O. (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine); ORIKHOVSKYI, Dmytro (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine); PONOMARENKO , V.A. (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Presenter: Mr ORIKHOVSKYI, Dmytro (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Session Classification: Extragalactic astrophysics and cosmology