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Operating Experience of Broadband Acquisition System on RT-13 Radio Telescopes

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Broadband Acquisition System (BRAS) was designed to digitize wideband signals from receivers of radio telescopes, pack the digital samples into VDIF frames and transmit them through 10G Ethernet interface. The system has been installed in Badary and Zelenchukskaya observatories on the recently constructed 13-meters RT-13 radio telescopes in February–March 2015. Since November 2016, IAA RAS performs regular observations with RT-13 equipped with BRAS. Besides, BRAS has been used in several international observations. The talk will describe both the structure and performance of BRAS as well as the operation results.

Primary author: Mr NOSOV, Evgeny (IAA RAS)

Co-authors: Mr MELNIKOV, Alexey (IAA RAS); Mr MARSHALOV, Dmitry (IAA RAS)

Presenter: Mr NOSOV, Evgeny (IAA RAS)

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