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KVN+VERA Test Observations and Evaluation Studies

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We present the current status of test observations with the combined array of the Korean VLBI Network (KVN) and the VLBI Exploration of Radio Astrometry (VERA), which consist of seven VLBI antennas. Test observations with the KVN+VERA array started in November 2008, and fringe detections were succeeded among all antennas of the KVN and the VERA at K and Q bands in 2009. After that, more than ten test observations have been carried out until June 2011, and we have obtained several preliminary images from successful observations. Currently, the K4/VSOP terminal is used as a VLBI recording system with a 128-Mpbs recording speed for the KVN+VERA test observations. We are aiming to carry out the wide band observations with the 1-Gbps recording system after the Korean-Japan Joint VLBI Correlator (KJJVC) starts regular operation in 2011. And also, we are now establishing a-priori calibration system and tools. In this talk, we will show recent results of the evaluation studies on calibrations, sensitivities, imaging qualities for the KVN+VERA array.