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VERA K-band Geodetic VLBI experiment using newly developed high speed sampler and recorder

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According to increasing the number of observations by 1-Gbps recording, geodetic VLBI solutions of VERA improve the accuracy. This is for guaranteeing the accuracy of VERA astrometry. However, much more increase in the number of observations is already difficult by the limit of the driving performance of the VERA antenna. OCTAVE series is a candidate of a next-generation data processing system in VERA. Sampling/recording rate of the system is 8-Gbps and corresponds by 8 times the present recording rate of VERA. Broadening of the recording bandwidth leads to improve delay estimation accuracy, and improving accuracy of geodetic solution is expected. We performed experimental geodetic VLBI observation which used the high-speed sampler and recorder. In connection with it, we optimized selection of observed radio sources.

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