

Activities of VERA and East Asian VLBI network

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VERA, which has four VLBI station in Japan with 2-beam system, started science observations from 2004. It aims to measure the parallax and proper motions for Galactic maser sources. VERA have succeeded to determine trigonometric distance and proper motions for more than 100 objects. Including VLBA and EVN results, Galactic constants are revised to reliable value. We will presents future plan of VERA as well.

East Asian VLBI network, EAVN, is organized as a combination of Japanese VLBI network, Korean VLBI network and Chinese VLBI network, which has around 20 stations in total. VERA, which is the 2-beam phase referencing array in Japan, and KVN, which is the multi-frequency phase referencing array, are combined as KaVA. KaVA is carrying out three large programs and open use for world-wide users. And Japan and Korea have developed a large VLBI correlator facility in Daejun, Korea, which has 16 station correlation with 8Gbps input per station. From 2018, EAVN has started to call for proposals with the combination of KaVA and Tianma 65-m in Shanghai. EAVN is growing to involve other Chinese telescopes, Nanshan 25m and Yunnan 40m. We will present the status and science results of EAVN and future view including world-array and SKA combination.