

Scientific perspectives of VLBI operations in the frequency phase transfer mode

Content

The technique of frequency phase transfer (FPT), pioneered at the Korean VLBI Network, is now gaining strong momentum with a number of telescopes and VLBI arrays considering it as a backbone of future operations. These include, most notably, the Global Millimeter VLBI Array (GMVA) and the upgrade of the Event Horizon Telescope. Implementation of FPT at these instruments holds a promise of increasing sensitivity and dynamic range of imaging by factors of 10-70 and reaching an unprecedented ~ 1 microarcsecond accuracy of relative astrometric measurements. Present state of developments of FPT VLBI and its scientific perspectives will be briefly discussed in this presentation

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