

## **VLBI with White Rabbit Time and Frequency Distribution**

As part of the H2020 ASTERICS project, we have researched the suitability for VLBI of the White Rabbit system for time and frequency distribution. Tests were performed on a link of 169km, which included optical amplification, and on a 35km dark fibre link. The equipment used on the short link is identical to the SADT design for UTC distribution in SKA1-Low and SKA1-Mid, apart from the addition of a 'low jitter daughter board' to the WR switches, and a clean-up oscillator on the station side WR switch. Using this setup, fringes have been obtained between the Dwingeloo radio telescope (using the WSRT H-maser as a remote clock) and several other EVN stations.

### **Suggested duration**

20 minutes

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