

# Receiving TWSTFT signals using consumer TV-satellite antenna and SDR

- ▶ Consumer-grade satellite TV antenna reception of TWSTFT signals
- ▶ Software Defined Radio (SDR) recording
- ▶ Spatial diversity of the emitting observatories allow for recovering satellite position in space
- ▶ 1000 ns=300 m motion of the satellite
- ▶ Large baseline for the motion of the satellite to have a large impact on the time of flight depending on the direction of arrival
- ▶ “GPS upside down”
- ▶ Matching published data at <https://webtai.bipm.org/ftp/pub/tai/data/> requires compensating for time delay between TWSTFT measurement times (up to 5 ns/s)

