Stochastic delay noise \( \sim 20 \) picoseconds

The Huygens probe signal delay detections are based on cross-correlation of \( \sim 20 \) photons per second collected by 20 -25m antennas with \( \sim 500 \) photons per second collected by GBT.

@ \( \lambda=15\text{cm} \) and energy flux of \( 0.1 - 0.3 \) photon per second per square meter

We claim it may be the most sensitive radio astronomical detection so far.

On behalf of the Huygens VLBI team, S. Pogrebenko, L. Gurvits, I. Avruch, R. Campbell, R. Oerlemans.