

Double-directional Dual-polarimetric Ultra-wideband Measurements at 70GHz in a Small Office Scenari

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Abstract:

Double-directional, ultra wideband dual-polarized channel measurements at 70GHz have been carried out in a small-office environment at the TU Ilmenau. Different positions of Tx and Rx have been measured using horn antennas and sweeping the angular domain at both ends. The aim of these measurements is to study the directional and polarization properties of the channel in view of the future wireless communication systems adopting beam-forming at mm-waves and for channel modelling purposes.