

# Short-Range Ultra-Wideband Multiple Input Multiple Output communications

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**Abstract:**

In this paper we analyze measurements of short range ultra-wideband MIMO transmission. 2 x 2 near field Ultra-Wideband measurements were undertaken in an anechoic chamber using a Medav UWB MIMO channel sounder. Measurements were performed as a part of Short Term Scientific Mission (STSM) between COST IC1004 partners Bristol and Vienna Universities. Channel characteristics were recorded for transmitter to receiver separations of 0.1 m to 0.7 m. Two independent channels were achieved, and channel capacity is twice as high as capacity of a single channel.