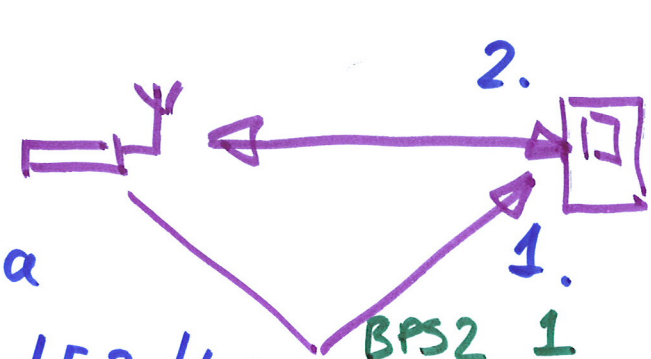
28.11.17

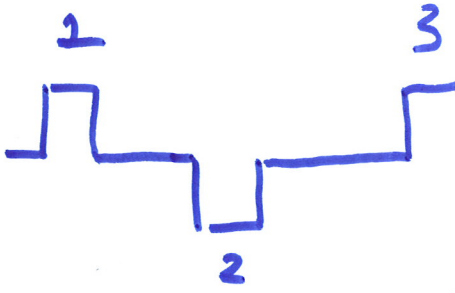


$\Pi = 54\ Mbit/s \Rightarrow D = \frac{1}{\Pi} =$ 18,5 ns

$c = 3 \cdot 10^8\ m/s$

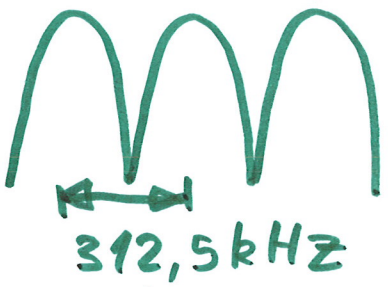
$l = c \cdot D = 3 \cdot 10^8 \cdot 1{,}85 \cdot 10^{-8} = 5{,}6\ m$




802.11a

N = 64 / 52 / 48 BPSK 1 64-QAM 6 $D_S = 3{,}2\ \mu s$

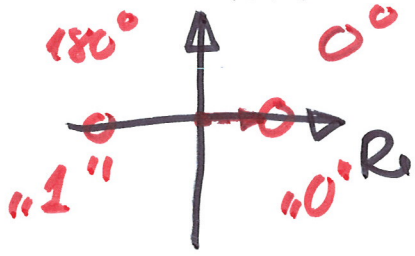



$\frac{1}{D_S} = \frac{1}{3{,}2 \cdot 10^{-6}} = 312\,500\ Hz$

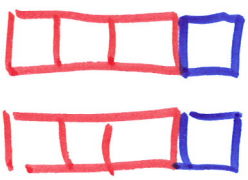
$48 \cdot 6 = 288$ bit $\cdot 250.000 = 72\ Mbit/s$

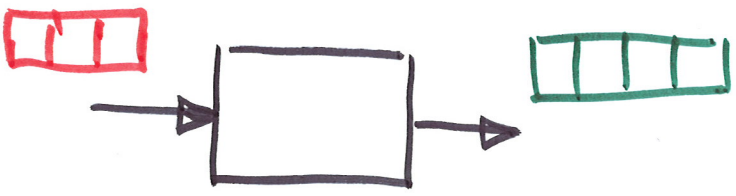
FFT

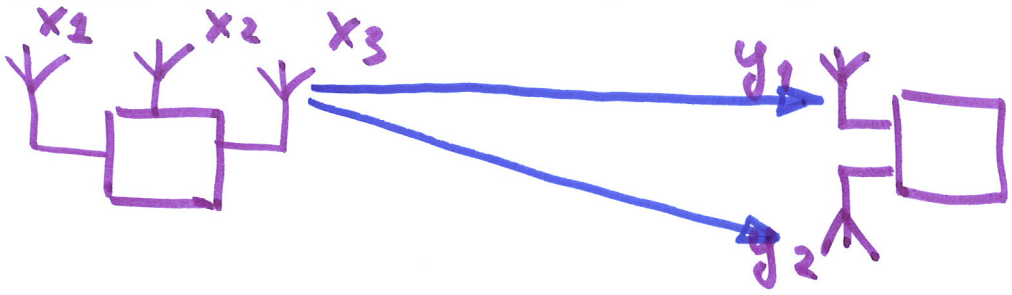
BPSK Im




MODULATION AND CODING SCHEME

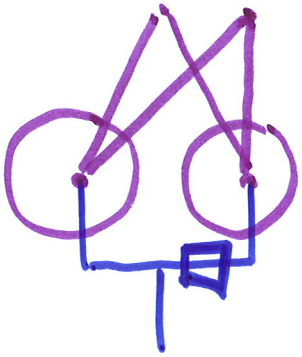






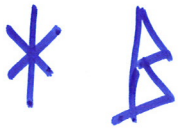

N·M = 6

1. SOUNA DIAGRAMM



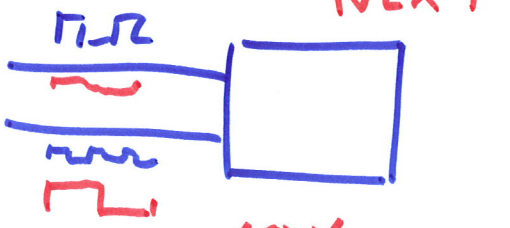

SDMA

PAN




802.15.1

802.11




10%.

$-0,1 \cdot \Delta_1$