

802.11p

Car-2-Car
2 - infrastructure

5.9 GHz

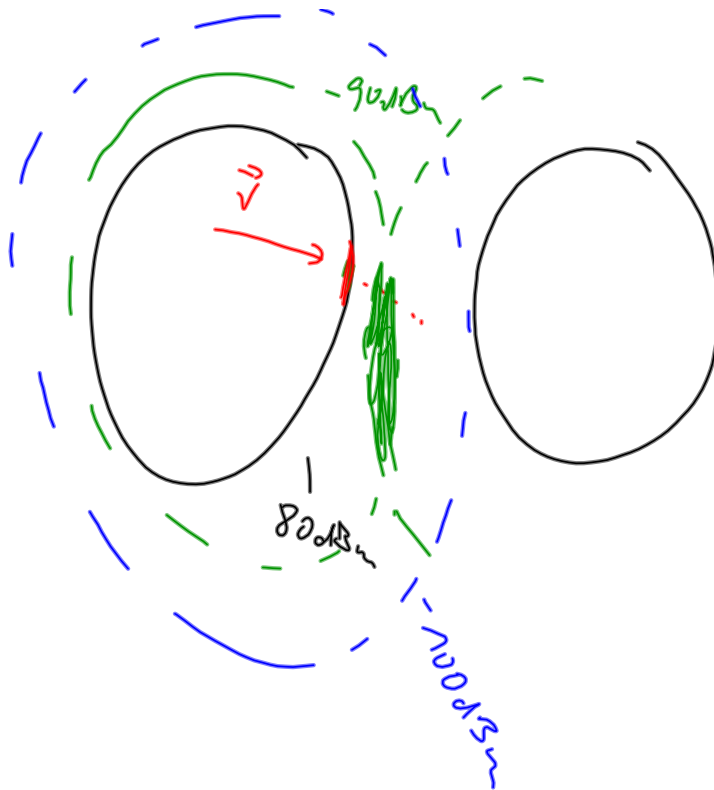
~~< 1 km ?~~

P_{Tx} $\begin{cases} 43 \text{ dBm emergency} \\ 23 \text{ dBm normal messages} \end{cases}$

G_T, G_R - omni indoor 10-15m

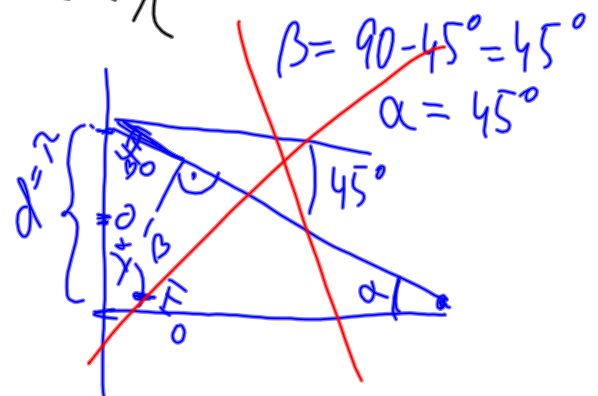
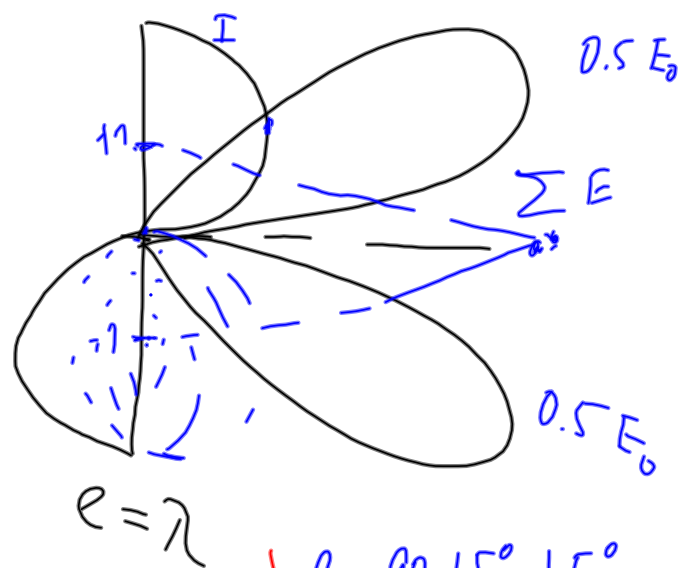
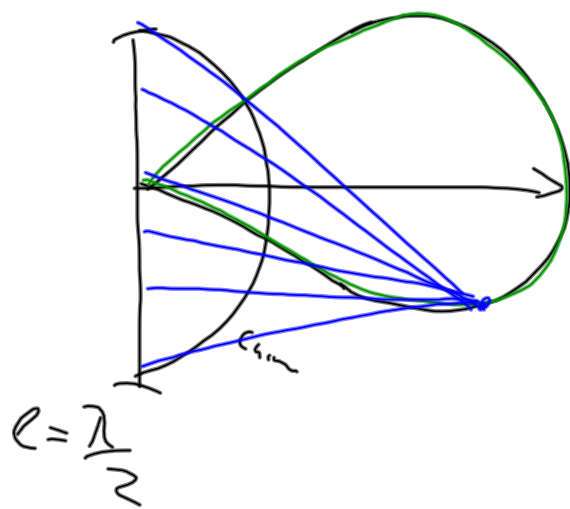
Measurements: ~ 30...50 m range

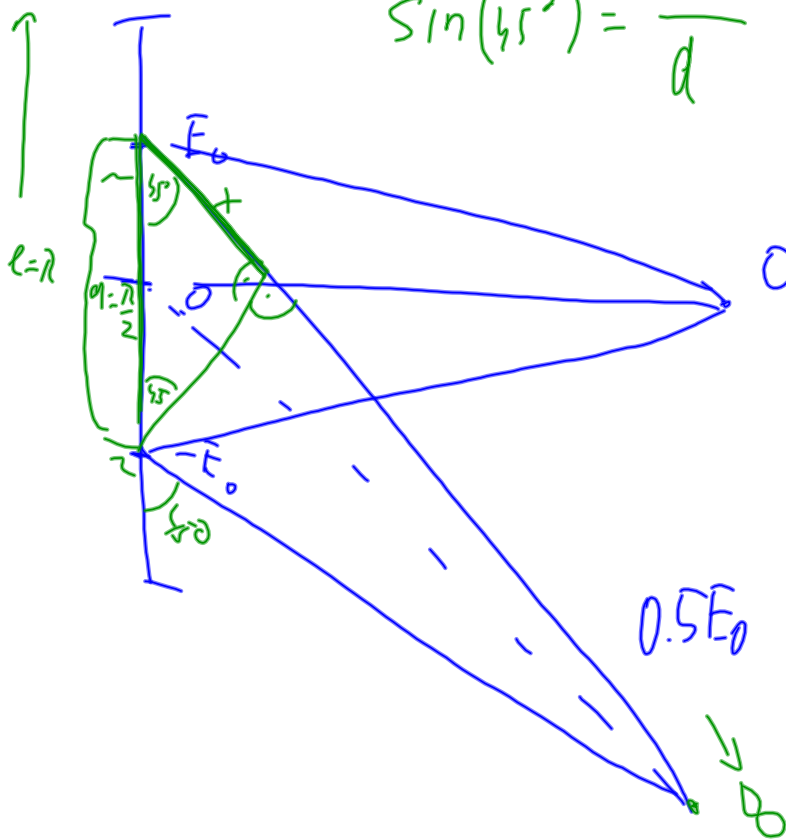




handover
 $P_R < -80\text{dBm}$

Mobile IP
 handover $< 2\text{s}$





$$\sin(45^\circ) = \frac{x}{d} \rightarrow x = d \cdot \sin 45^\circ$$

$$\frac{\lambda}{2} \cdot \frac{\sqrt{2}}{2}$$

$$x = \frac{\sqrt{2}}{4} \lambda$$

$$\varphi = 0.3 \cdot 360^\circ \sim 120^\circ$$

$$\Sigma = -F_0 + F_0 e^{i\varphi}$$

$$= -F_0 (1 - e^{i120^\circ})$$

$$\Sigma_{45} = -0.5 E_0$$



TCP

STCP

MS TCP

PTCP

MIT news

throughput $\sim$ packet
loss

visit Nemho/Conlab
Block Seminar

WLAN

2.4 GHz indoor 15-20 m cov.
~ 5 Mb/s traffic

- see
- connect to
- real traffic

5 6 GHz free space attenuation gain
indoor open - 3 dB + 2-3 dB
" 70-75 m walls/doors - 20 dB
" office size + neighbour

Block Seminar - CWI × Handover in mobile system × mit wifi mathematical equ × MIT researchers use algebra ×

cwi.unik.no/wiki/Block_Seminar

Thursday 8. Nov 2012

Room 308b

- 0900-1100 free talks with Josef
- 1100 - lunch
- 1200 Programming the handovers framework
- 1400 WLAN configuration
- 1630 Pizza
- 1700 programming until we see results :-)

Friday, 9. Nov 2012

Room 301

- 0900 Results from programming: overview on statistics on handover
- 1030 Summary - Assignments for writing chapters on ~~mobile~~ *mobile & wireless*
- 1100 lunch
- 1200 Intro to Mobilit(?)
- 1300 Assignment for Mobility : *Mobile IP, FMIP, HMIP....*
- 1500 End of block seminar

Categories: [UNIK4700](#) | [UNIK9700](#) | [Lecture](#)

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