

802.11p

Car-2-Car

2 - infrastructure

5.9 GHz

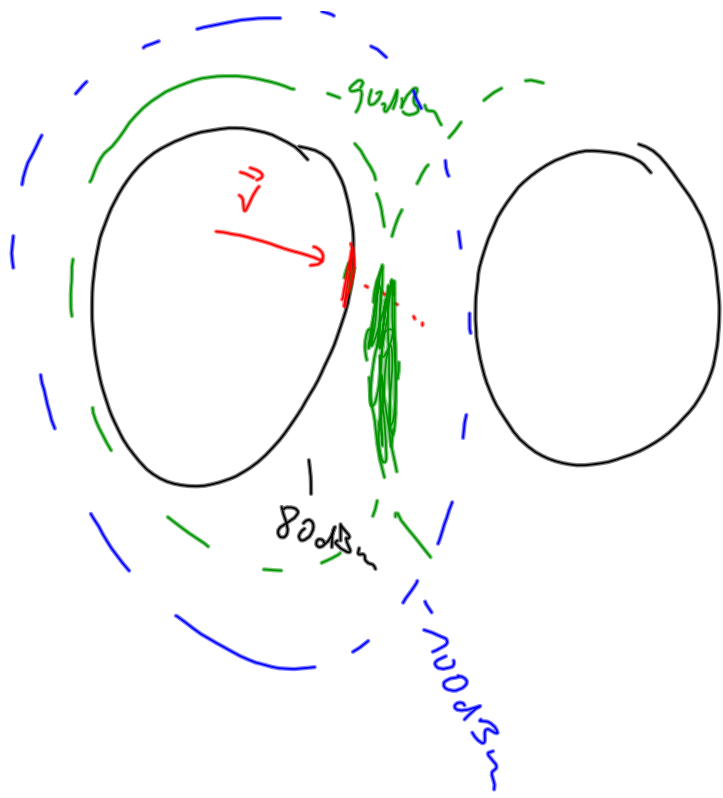
~~< 7 km ?~~

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

G_T, G_R - omni indoor 70-15m

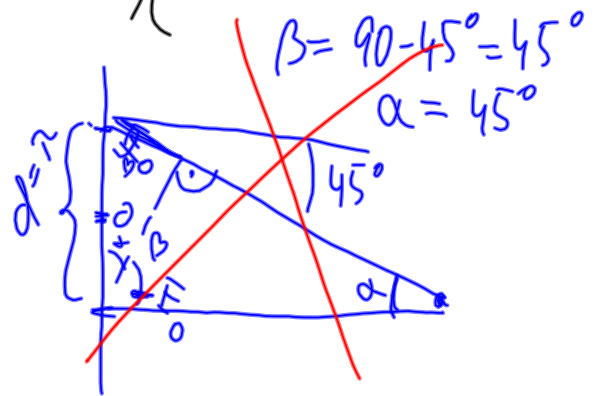
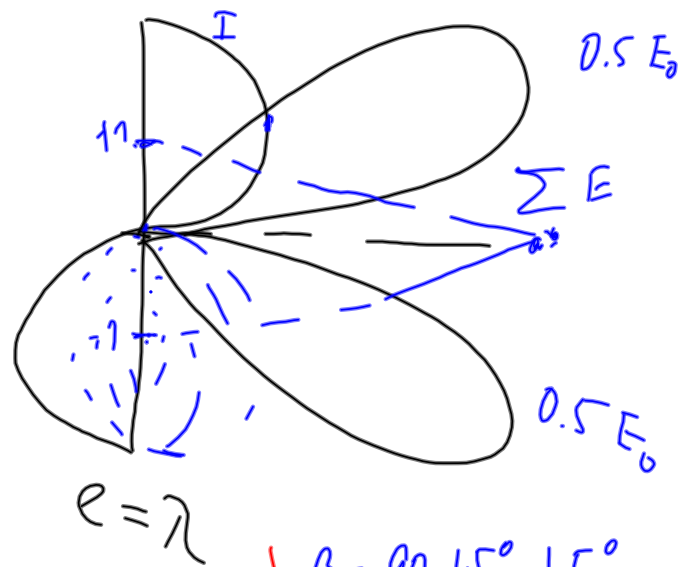
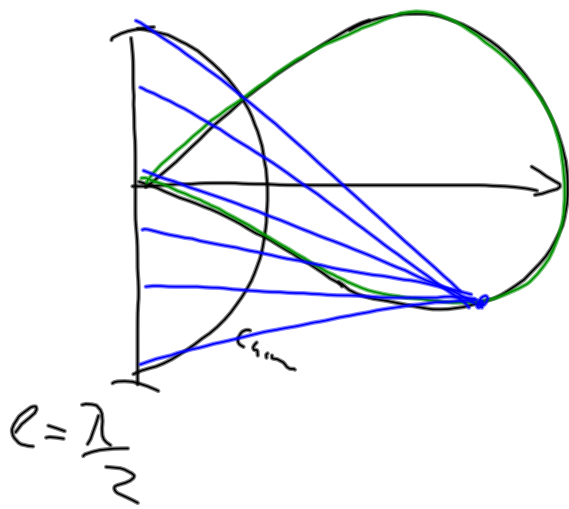
Measurements: ~ 30...50 m range

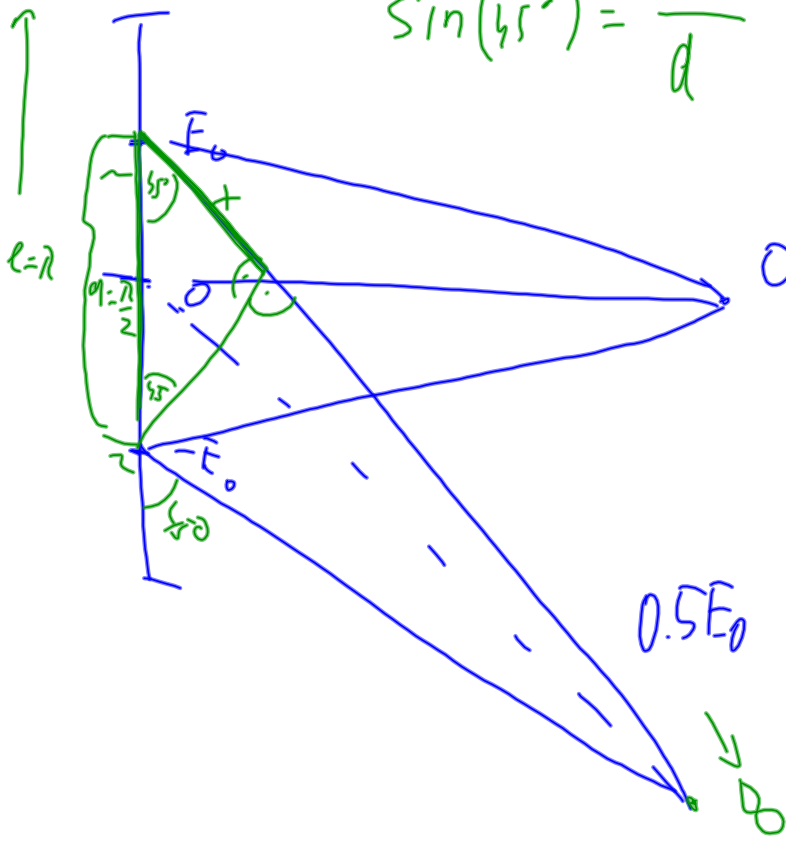




handover
 $P_R < -80 \text{ dBm}$

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





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

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

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

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

$$\Sigma = -E_0 + E_0 e^{i\varphi}$$

$$= -E_0 (1 - e^{i120^\circ})$$

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



TCP

STCP

MSTCP

PTCP

MIT news

throughput \sim packet
loss

visit Nemko/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 algebr

cwi.unikno/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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