

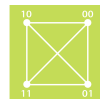
Mobile Communications

Problem Set 4

Dr.-Ing. Ralf Lübben
M.Sc. Felix Langenbruch

05.06.2015

Institut für
Kommunikations-
Technik



1. Are MAC protocols from wired networks suitable for wireless networks? Explain your answer
2. Explain the hidden terminal problem and provide a possible solution to it.
3. Explain the exposed terminal problem.
4. We revisit the CDMA decoding example from the lecture with two senders A and B. Assume a third station that is called C is tapping the channel. However, C does not have the codes for A and B. Station C uses the random code "- - + - - +" and tries to decode any of the transmitted bit streams from A or B. What does C decode? Is it possible for C to correctly decode the signals for A and B?