several different values of parameter $p$

UMP-BPSK as a reference. Additionally we depict non-UMP QPSK as a reference.

Fig. 17: SER in the MAC stage assuming uncoded detection with CSIR in AWGN, Rayleigh and Rice $K = 10$ dB fading channel of binary full-response CPM $\kappa = 1/2$ (MSK) with REC, RC and proposed SRC pulse. Additionally, we depict UMP-BPSK as a reference.

Fig. 18: SER in the MAC stage assuming uncoded detection with CSIR in AWGN, Rayleigh and Rice $K = 10$ dB fading channel of quaternary full-response CPM $\kappa = 1/2$ (QMSK) with REC, RC and proposed SRC pulse. Additionally, we depict non-UMP QPSK as a reference.

Average Power Spectrum Density

Fig. 19: Average power spectral densities of binary and quaternary full-response CPM $\kappa = 1/2$ (MSK and QMSK) for several different values of parameter $p$.

Fig. 20: Possible geometrical configurations $(s_{c_1} s_{c_2}, \langle s_{c_1}, s_{c_2} \rangle, \langle s_{c_1}, s_{c_2} \rangle) = (0, 0, 0)$ imply $(s_{c_1}, s_{c_2}) = 0$.

$(s_{c_1} s_{c_2}, \langle s_{c_1}, s_{c_2} \rangle, \langle s_{c_1}, s_{c_2} \rangle) = (1, 1, 1)$ imply $(s_{c_1}, s_{c_2}) = 1$.

Fig. 21: Possible geometrical configurations

$(s_{c_1} s_{c_2}, \langle s_{c_1}, s_{c_2} \rangle, \langle s_{c_1}, s_{c_2} \rangle) = (1, 1, 1)$ imply $(s_{c_1}, s_{c_2}) = 1$.

Fig. 22: Possible geometrical configurations

$(s_{c_1} s_{c_2}, \langle s_{c_1}, s_{c_2} \rangle, \langle s_{c_1}, s_{c_2} \rangle) = (1, 1, 1)$ imply $(s_{c_1}, s_{c_2}) = 1$.

Fig. 23: Possible geometrical configurations

$(s_{c_1} s_{c_2}, \langle s_{c_1}, s_{c_2} \rangle, \langle s_{c_1}, s_{c_2} \rangle) = (1, 1, 1)$ imply $(s_{c_1}, s_{c_2}) = 1$.

Fig. 24: Possible geometrical configurations

$(s_{c_1} s_{c_2}, \langle s_{c_1}, s_{c_2} \rangle, \langle s_{c_1}, s_{c_2} \rangle) = (1, 1, 1)$ imply $(s_{c_1}, s_{c_2}) = 1$.

Fig. 25: One possible geometrical configuration of

$(s_{c_1} s_{c_2}, \langle s_{c_1}, s_{c_2} \rangle, \langle s_{c_1}, s_{c_2} \rangle) = (0, 0, -1, -1)$.