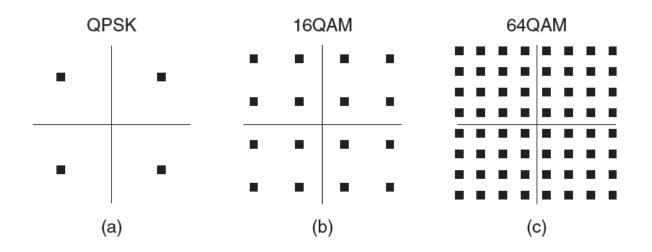
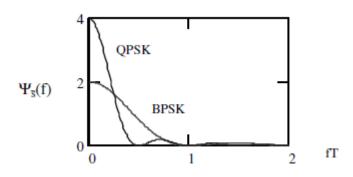
Constellations used in LTE:



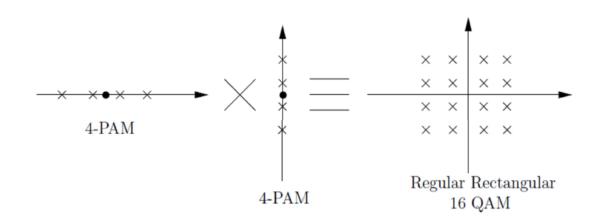
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Comparison of ESD for BPSK and QPSK

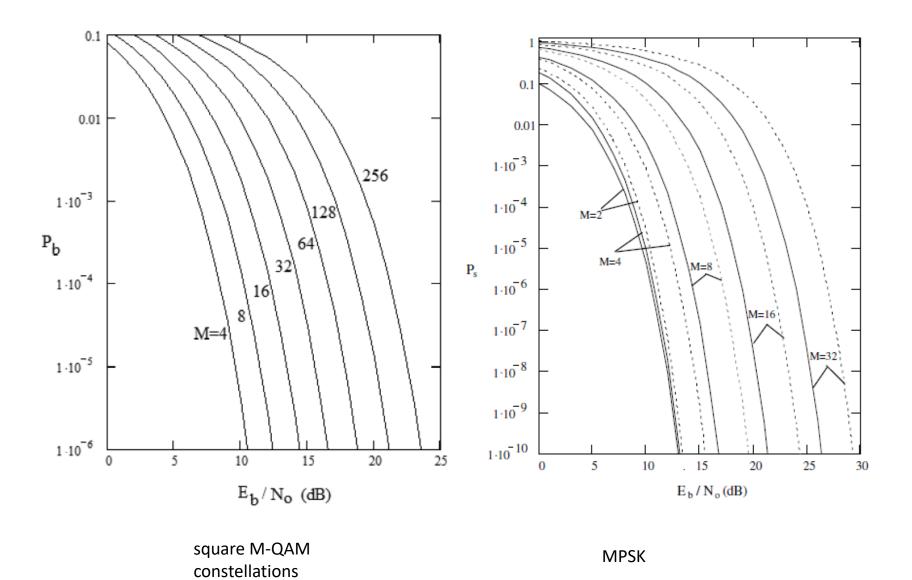
M	R_M	$10 \log R_M$ (dB)
4	1	0
8	1.463	1.65
16	2.627	4.20
32	5.036	7.02
64	9.889	9.95
128	19.61	12.92
256	39.06	15.92

Power saving of M-QAM compared to MPSK



generation of square M-QAM

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