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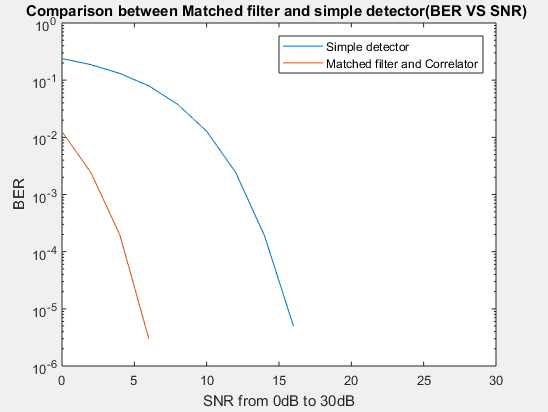
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# Experiment 1: *Introduction of probability error calculation*



“Measured” in AWGN method will make the function measure power before adding the noise. We can achieve almost no errors with SNR of value 16~17 dB or more.

# Experiment 2: *Performance of matched filters and correlators*



* The matched filter is the optimal linear filter for maximizing the signal-to-noise ratio (SNR) in the presence of additive stochastic noise. It gives better results than the simple detector.
* The probability of detection increases with increasing SNR.
* The SNR system is nearly without an error at value 6 dB.

