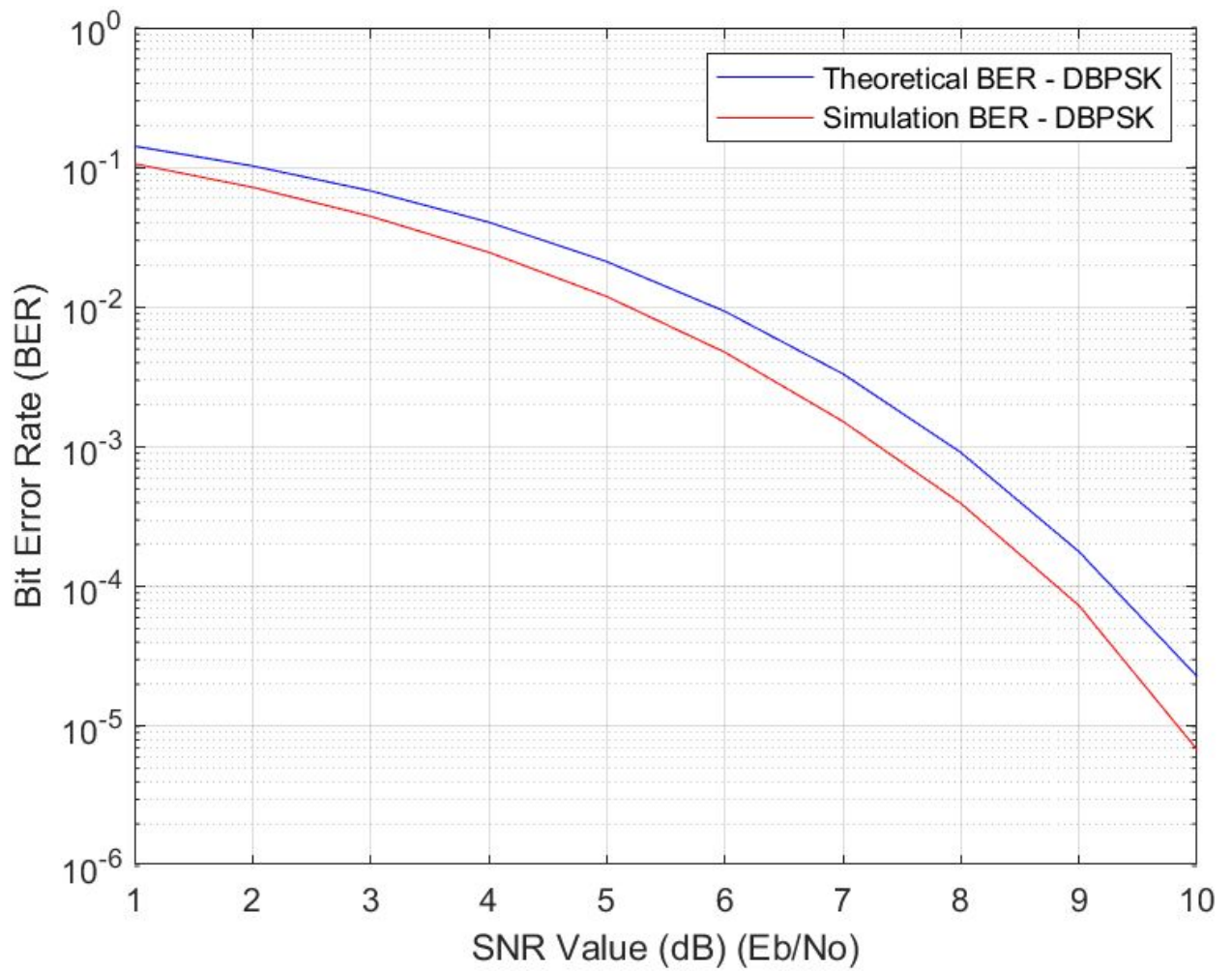


# Communication Systems Lab

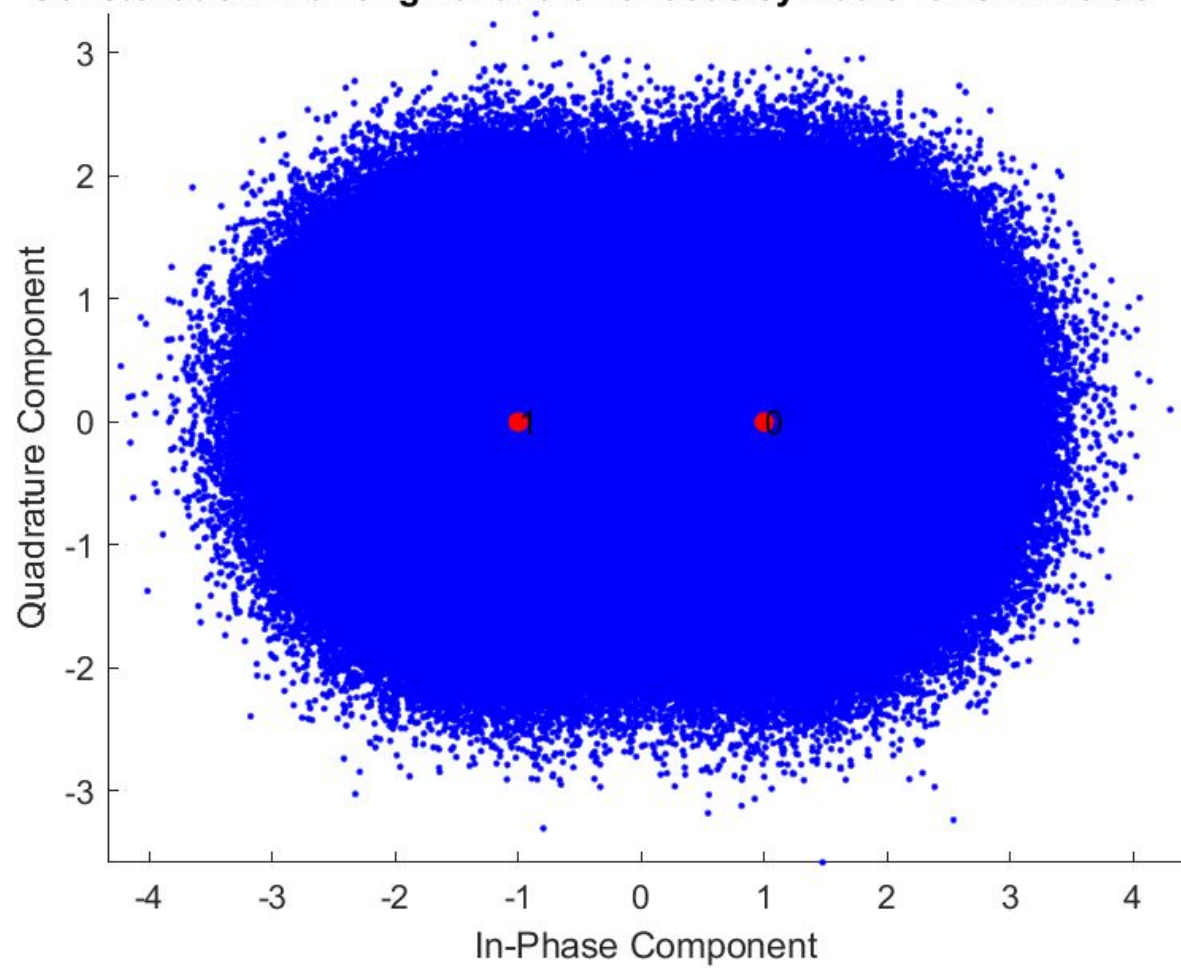
## Lab Report (180030037)

### Experiment 6 : Differential BPSK and Differential QPSK BER Simulation

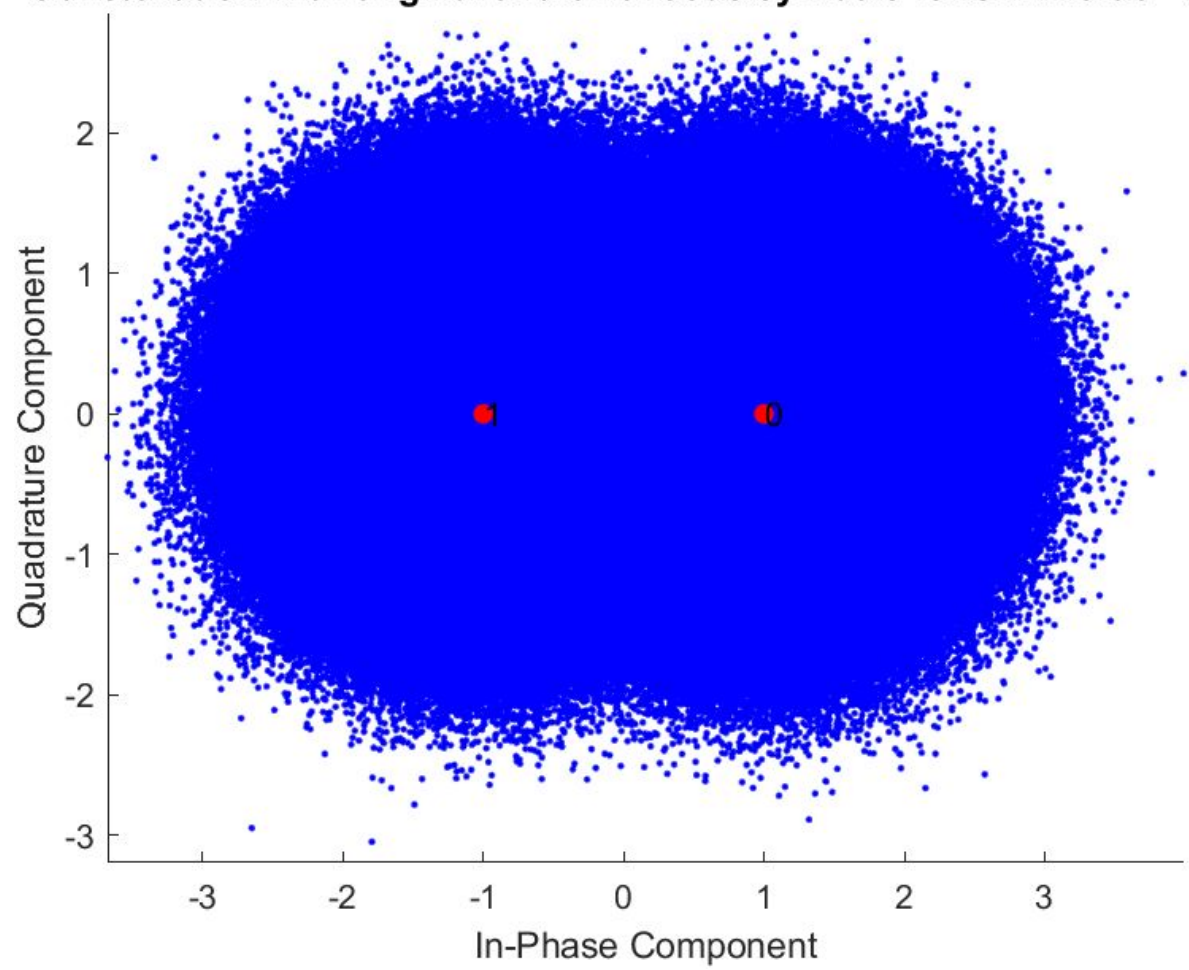
#### 1. Differential BPSK Simulation



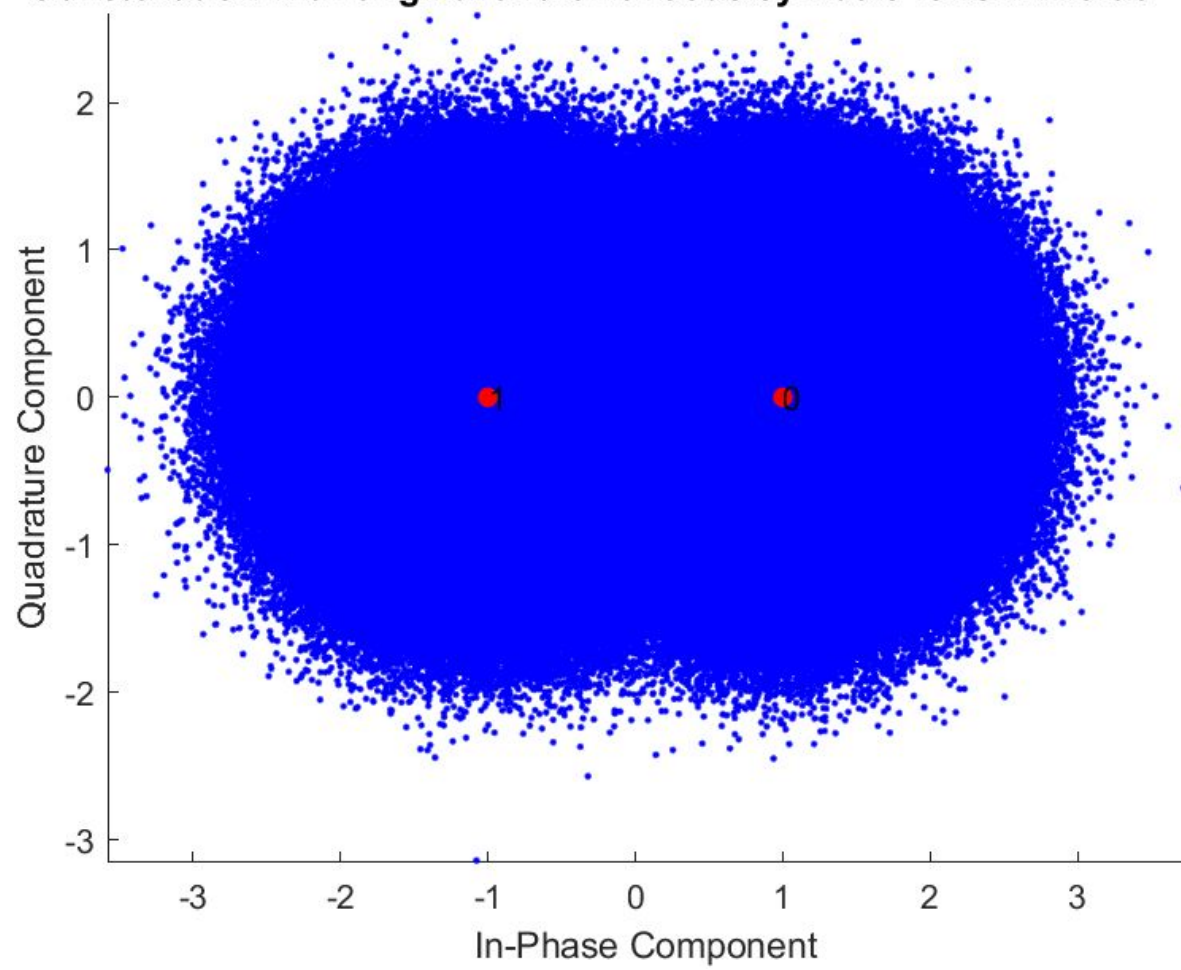
**Constellation with original and erroneous symbols for SNR value =1 dB**



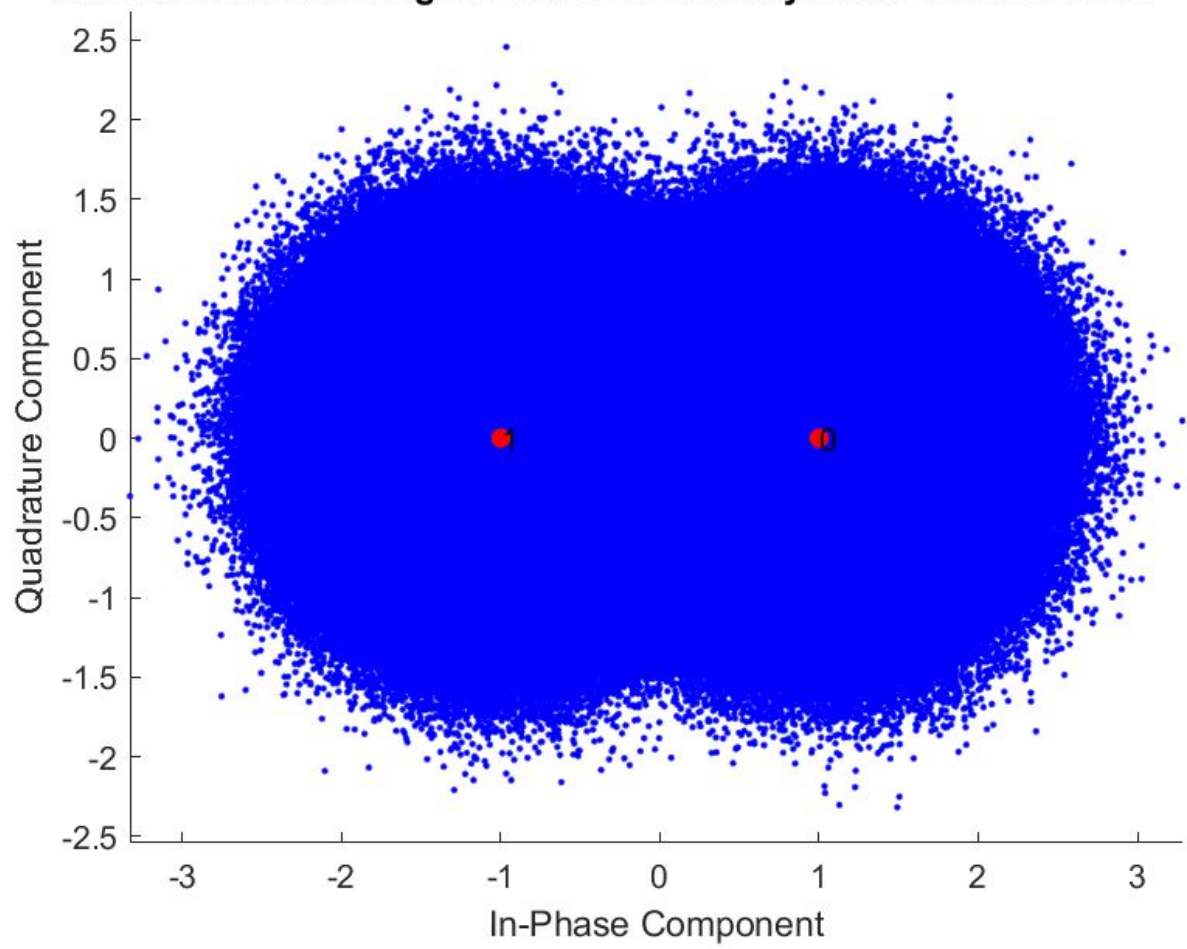
**Constellation with original and erroneous symbols for SNR value =2 dB**



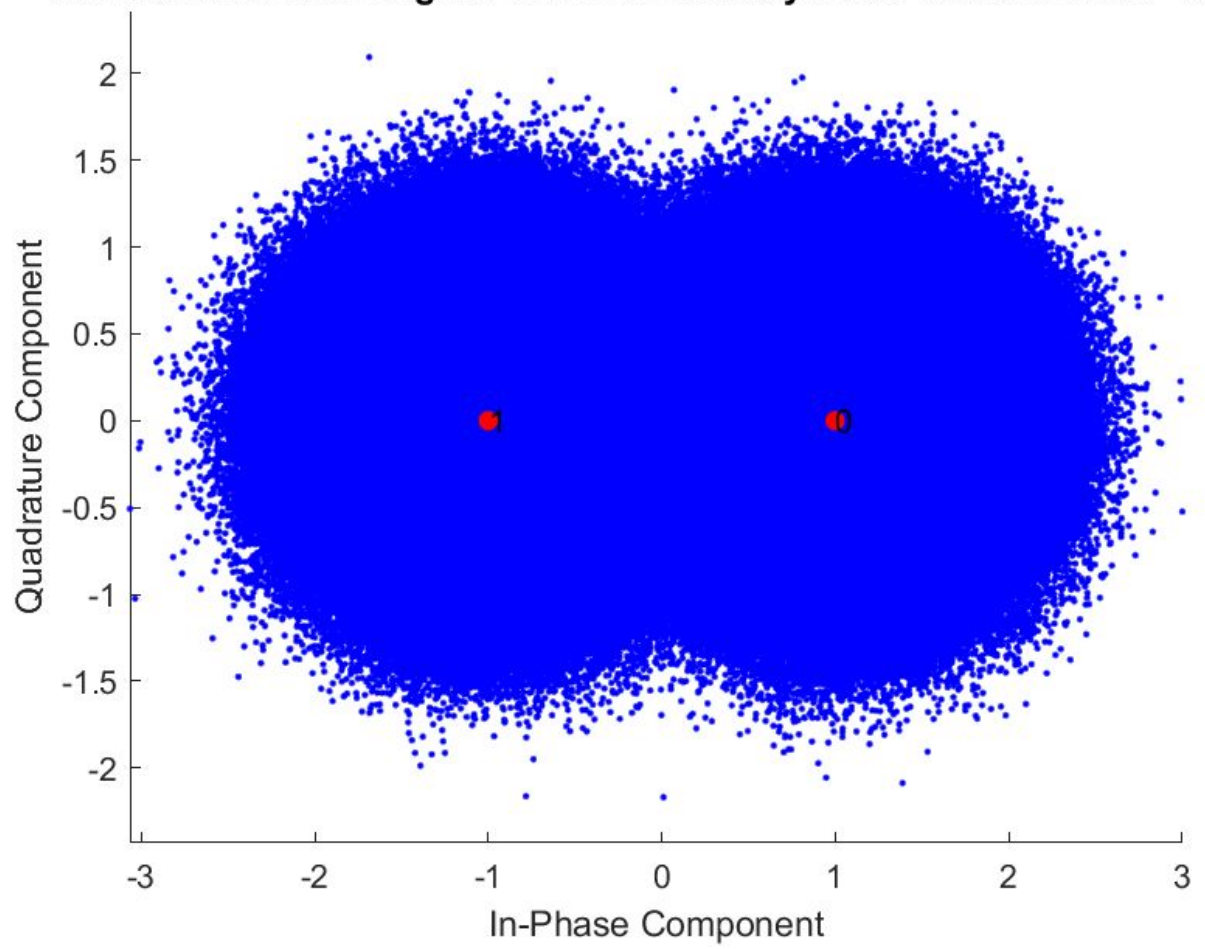
**Constellation with original and erroneous symbols for SNR value =3 dB**



**Constellation with original and erroneous symbols for SNR value =4 dB**

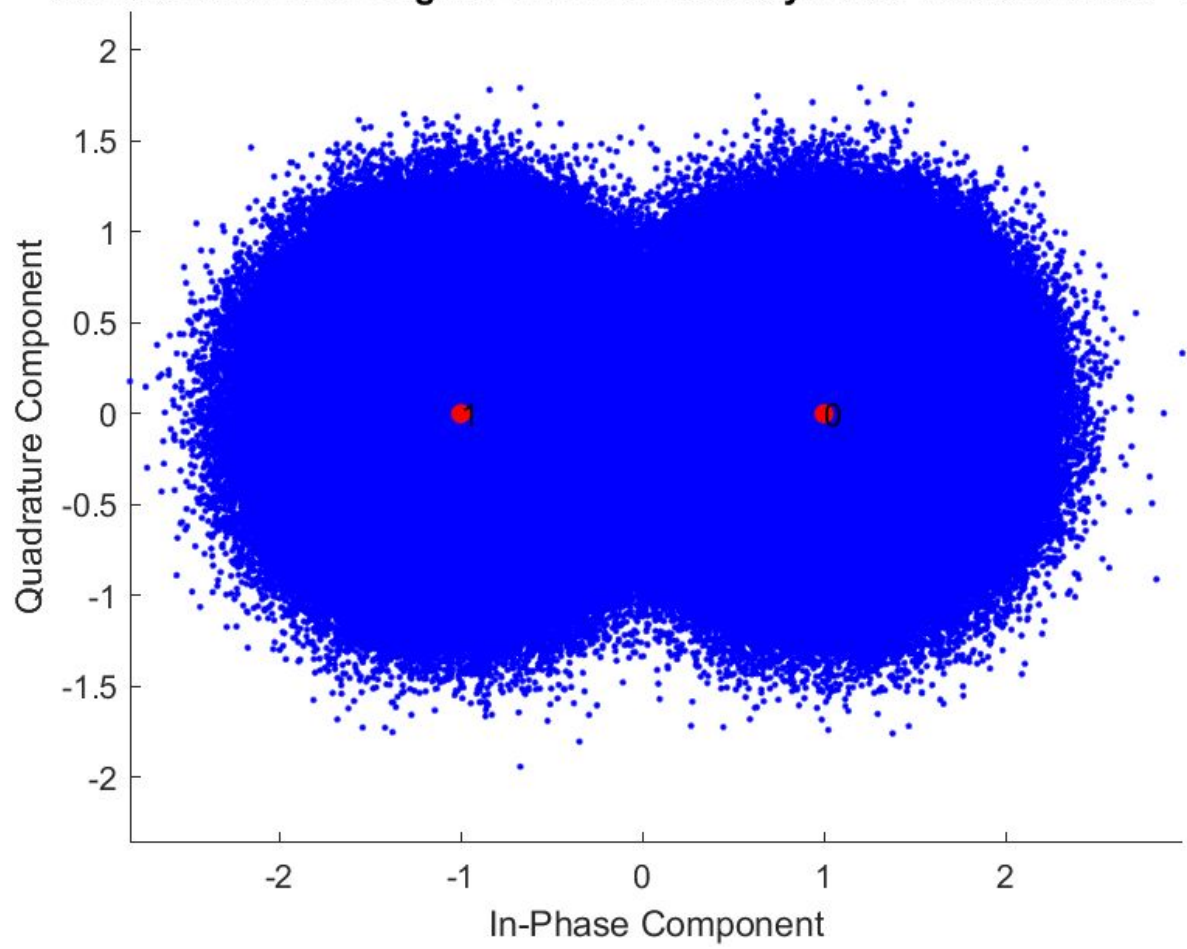


**Constellation with original and erroneous symbols for SNR value =5 dB**

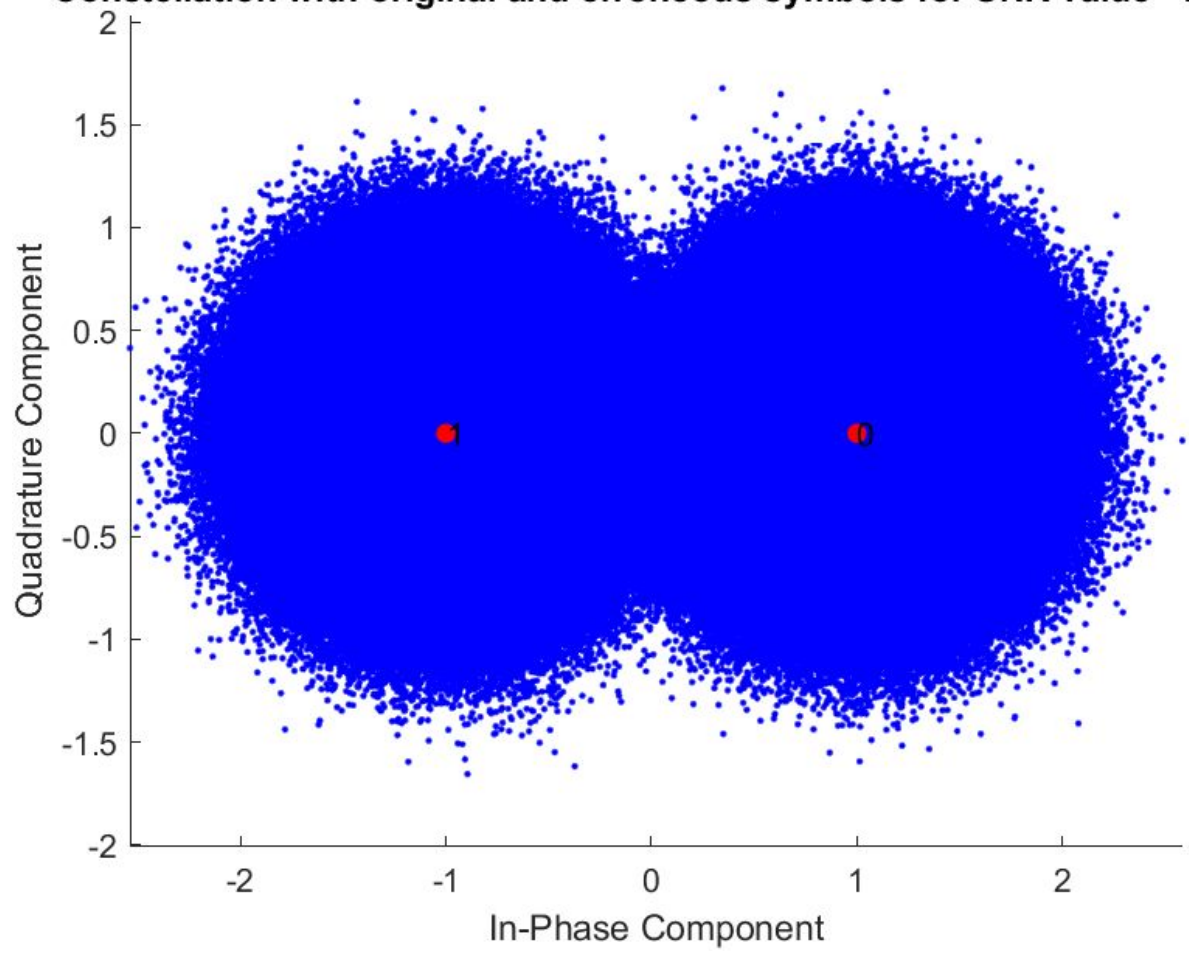




**Constellation with original and erroneous symbols for SNR value =6 dB**

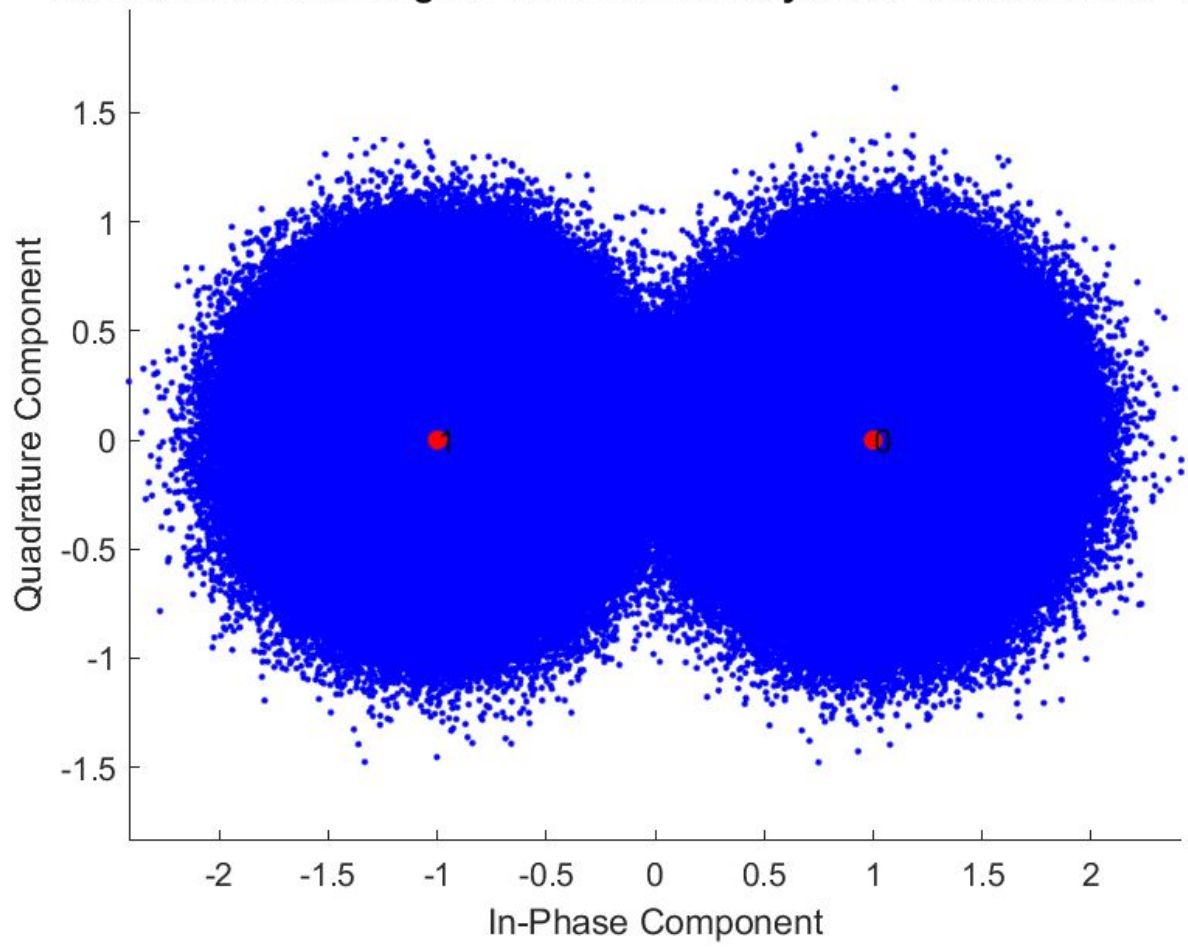


**Constellation with original and erroneous symbols for SNR value =7 dB**

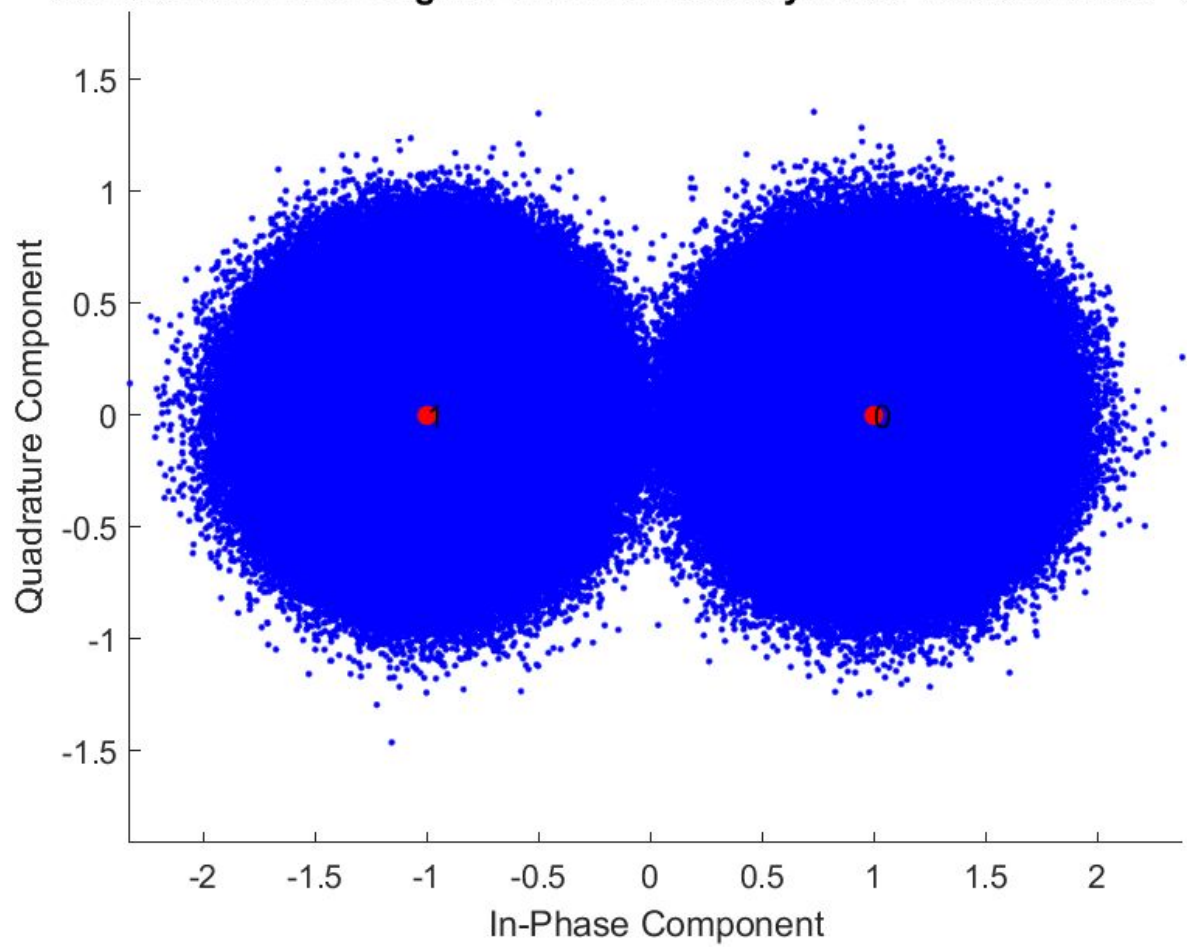




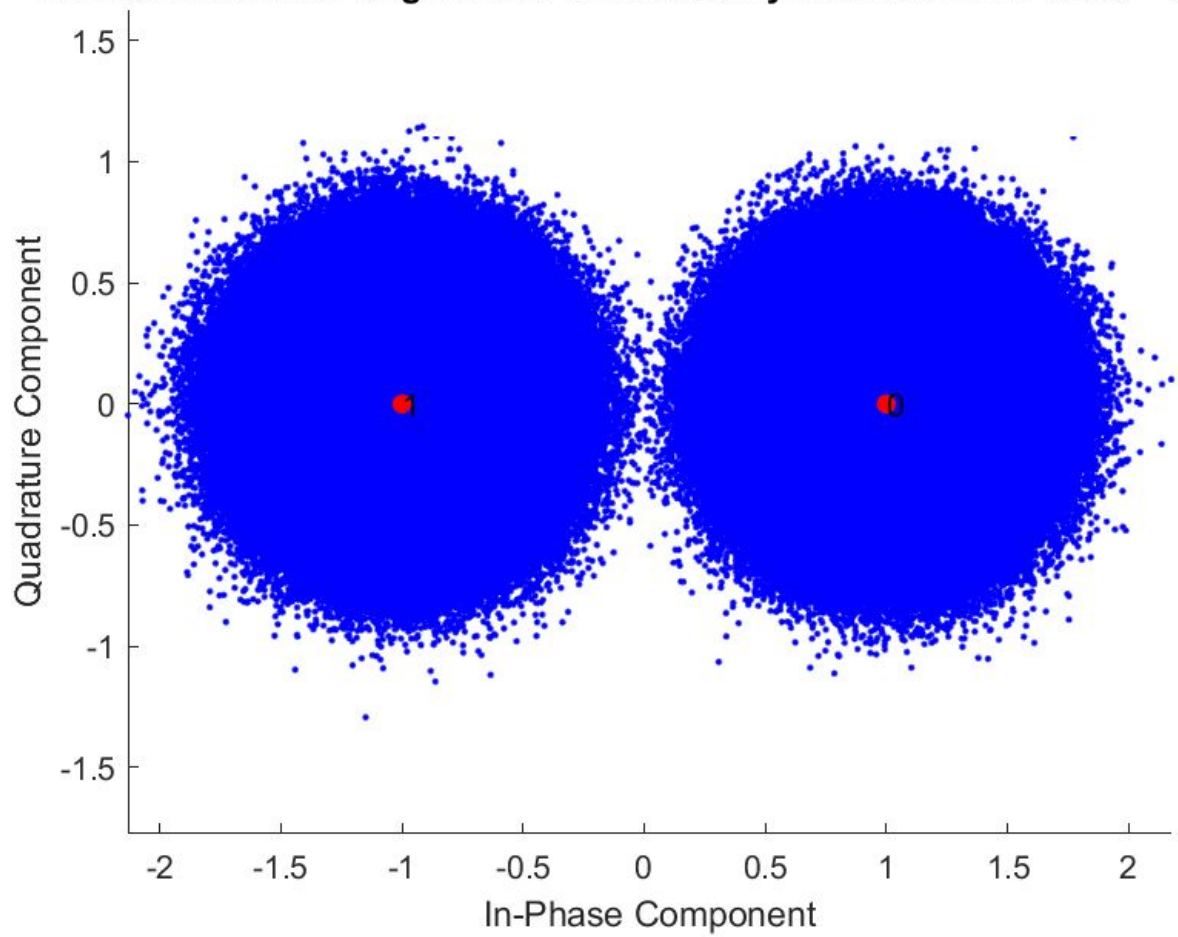
**Constellation with original and erroneous symbols for SNR value =8 dB**



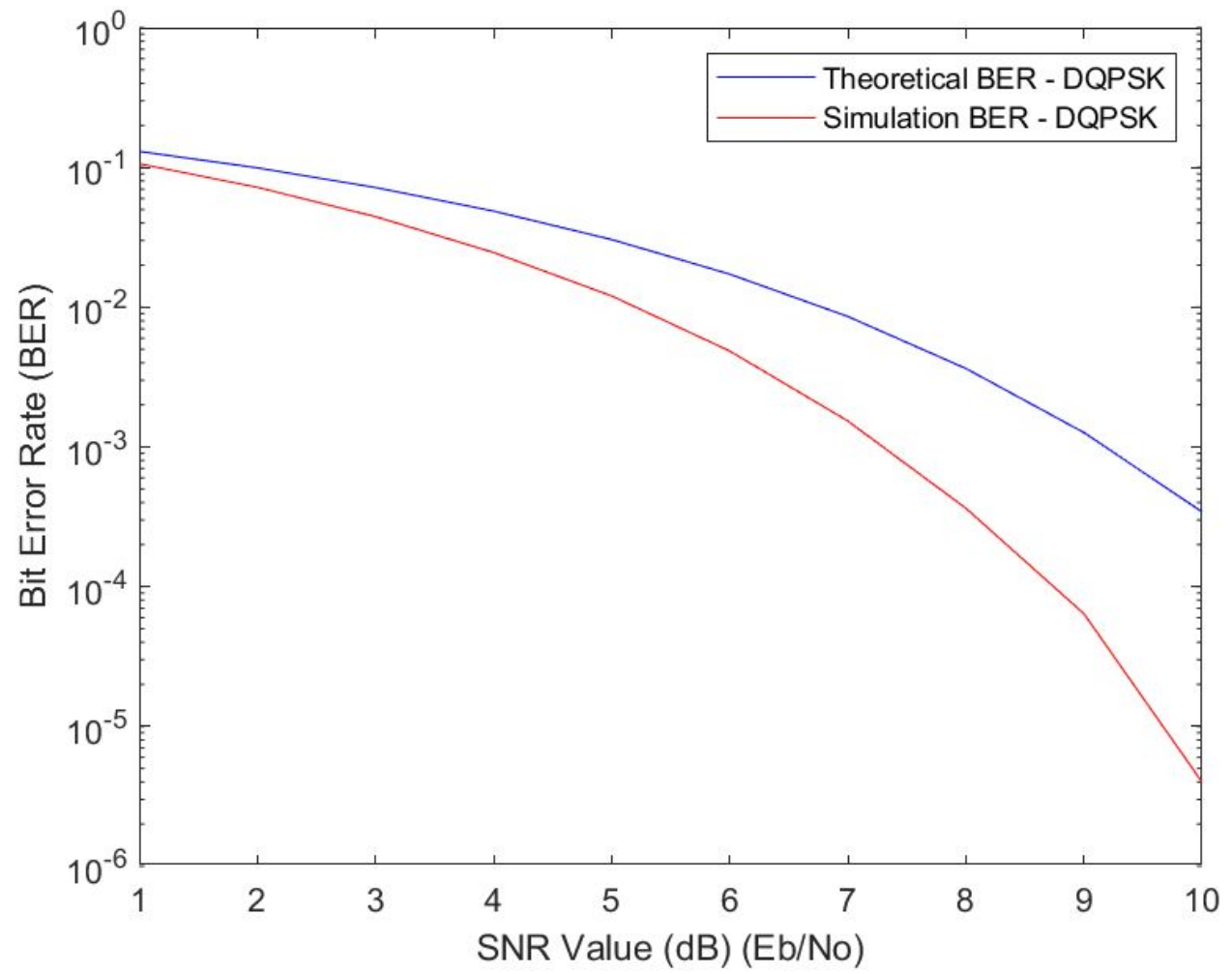
**Constellation with original and erroneous symbols for SNR value =9 dB**



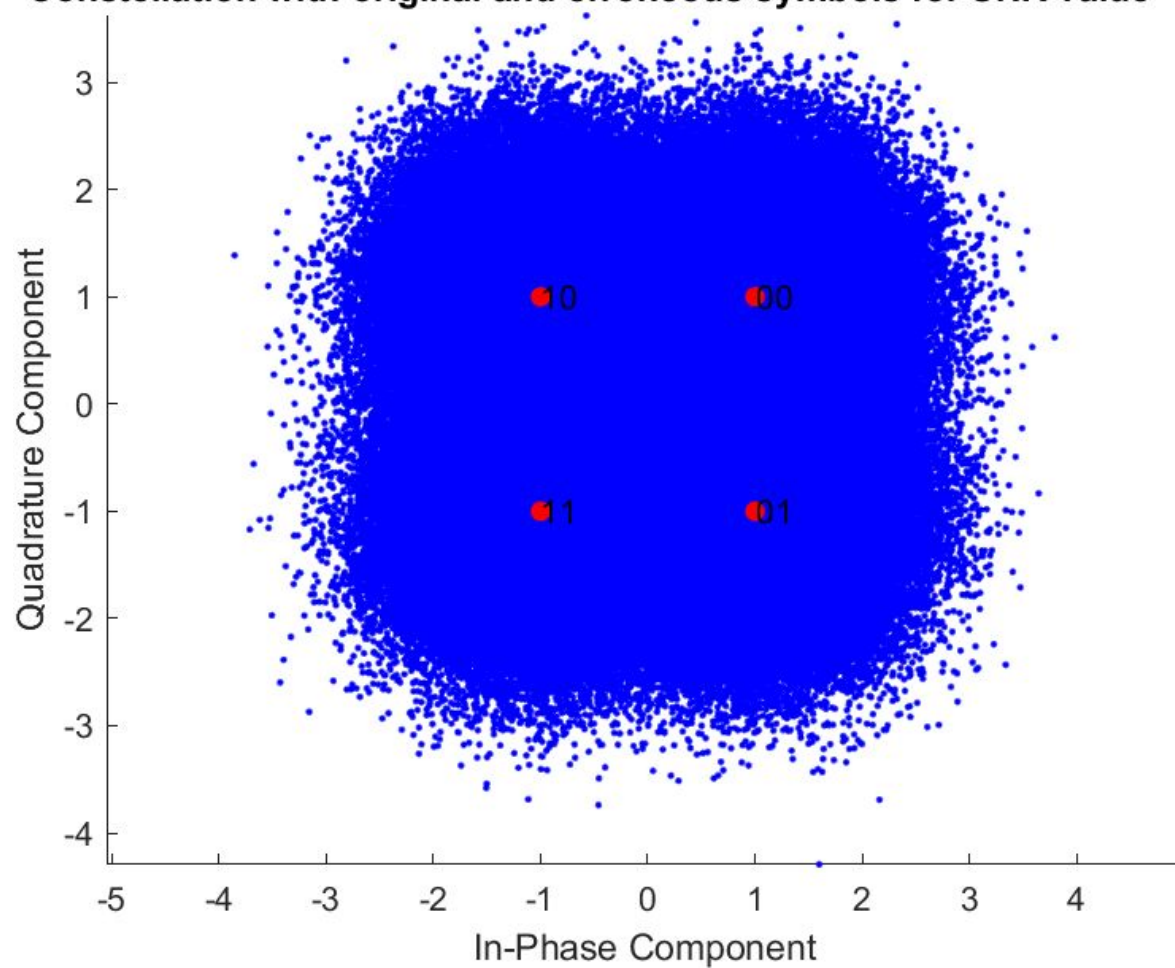
**Constellation with original and erroneous symbols for SNR value =10 dB**



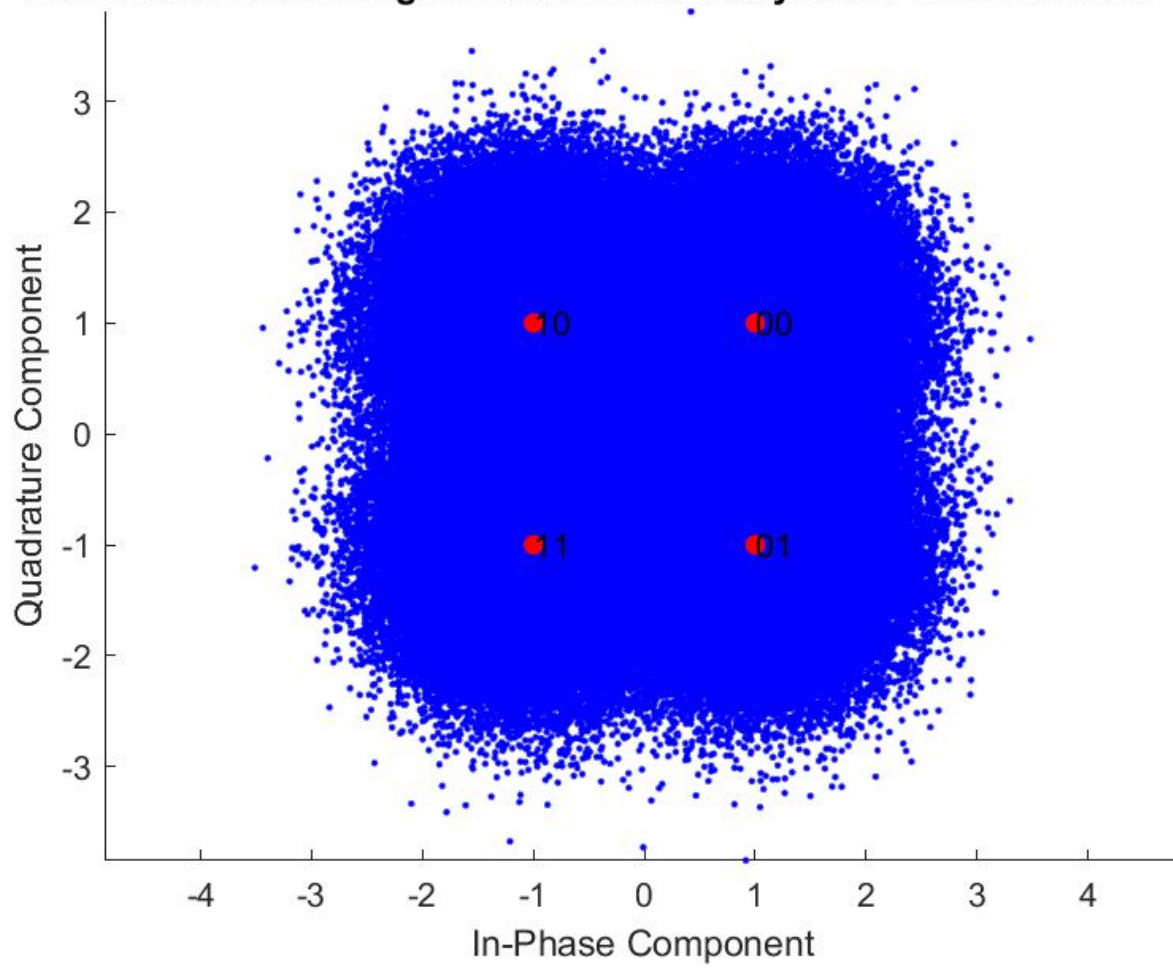
## **2. Differential QPSK Simulation**



Constellation with original and erroneous symbols for SNR value =1 dB

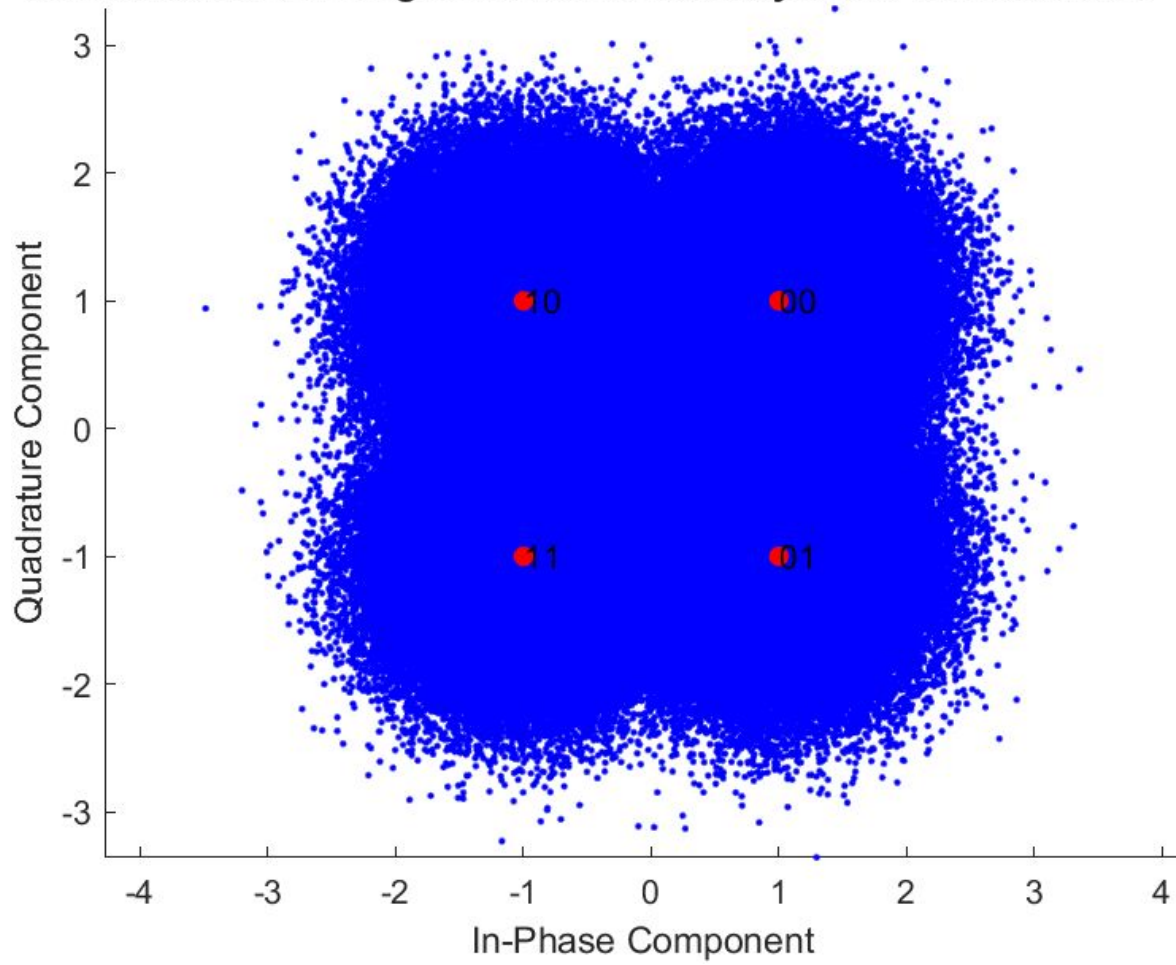


Constellation with original and erroneous symbols for SNR value =2 dB

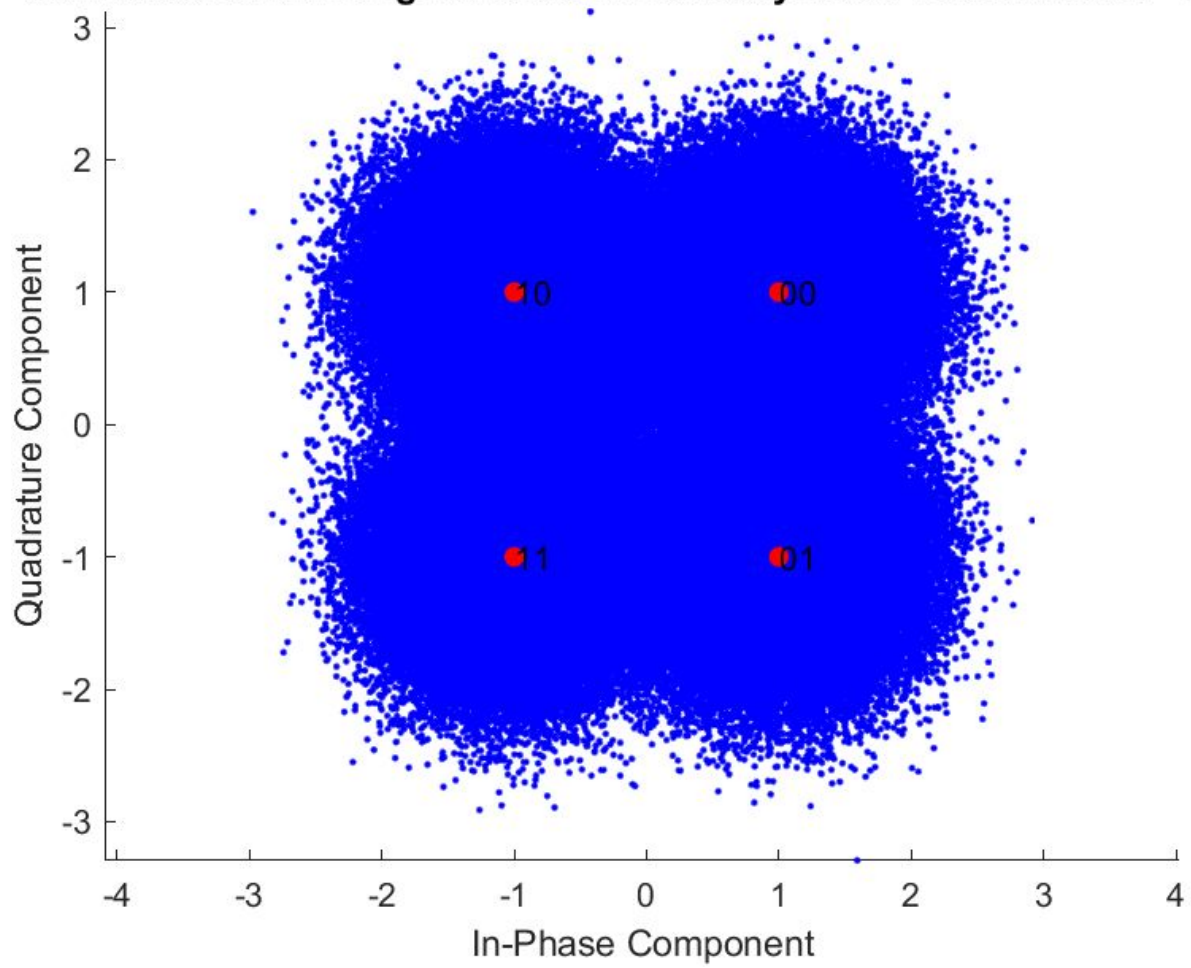




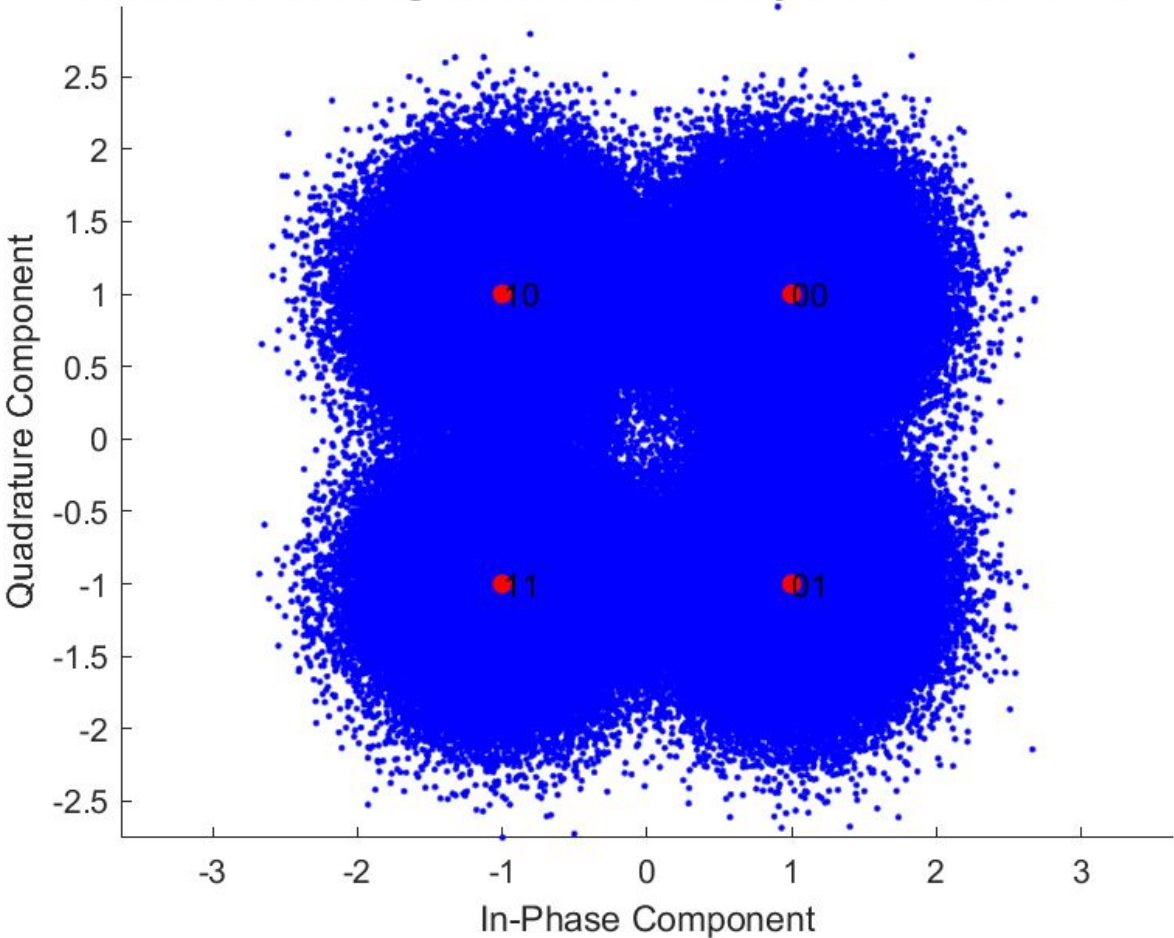
Constellation with original and erroneous symbols for SNR value =3 dB



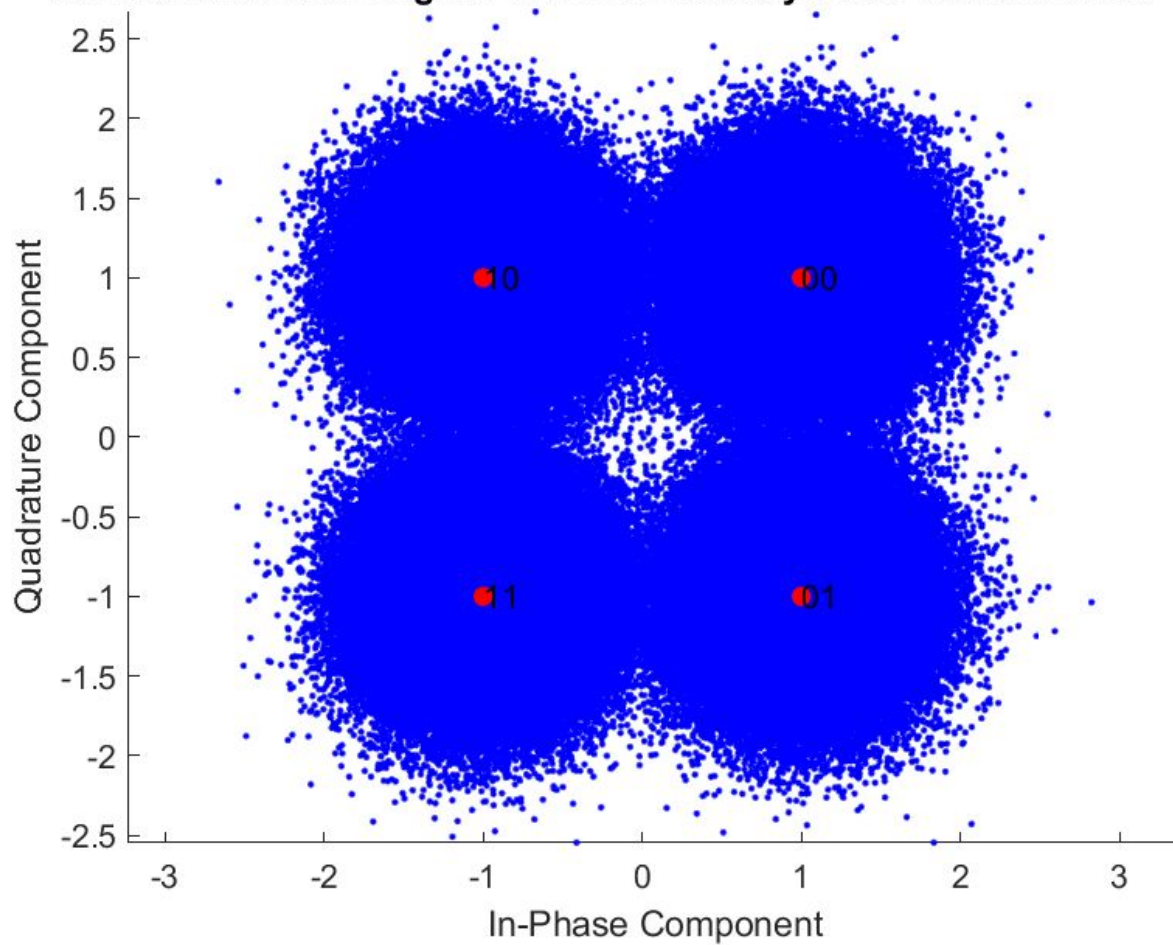
**Constellation with original and erroneous symbols for SNR value =4 dB**



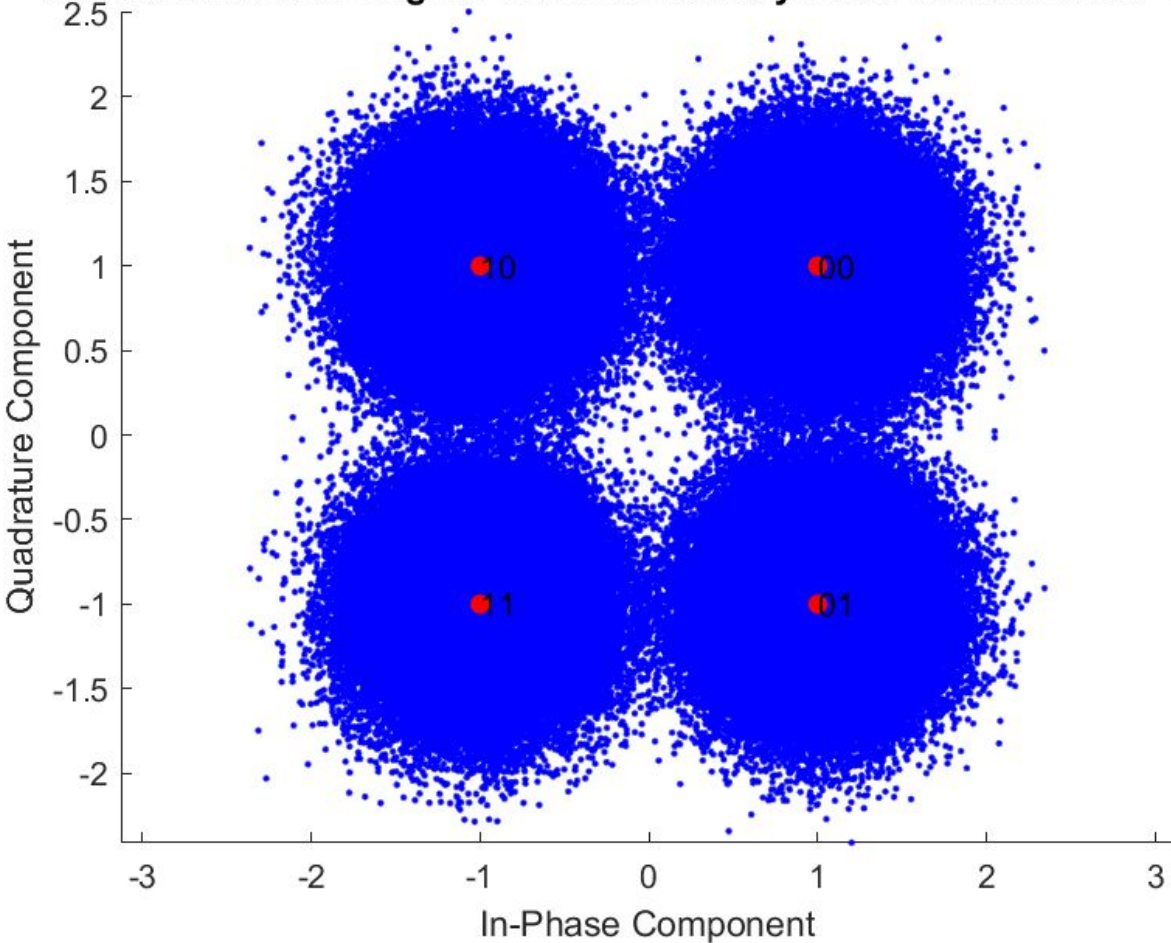
Constellation with original and erroneous symbols for SNR value =5 dB



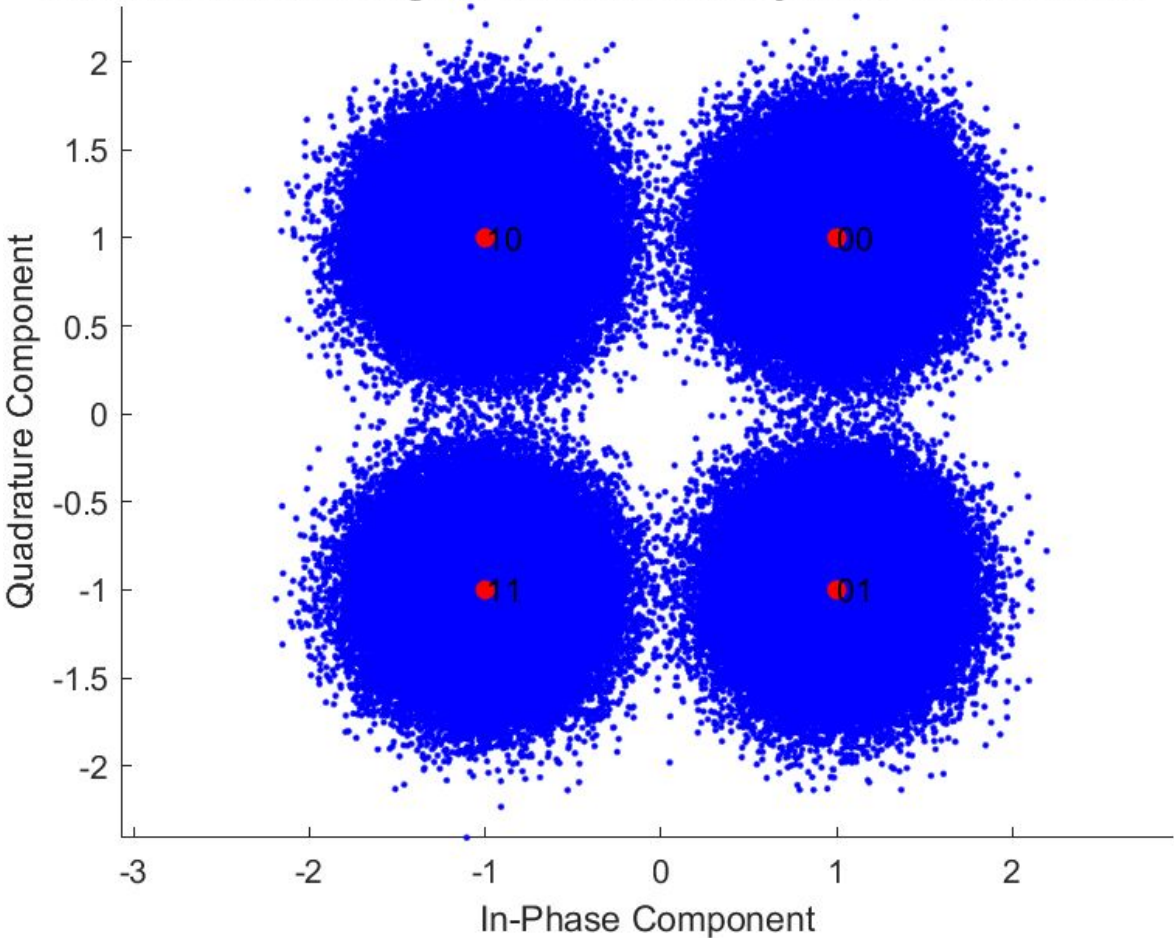
Constellation with original and erroneous symbols for SNR value =6 dB



Constellation with original and erroneous symbols for SNR value =7 dB

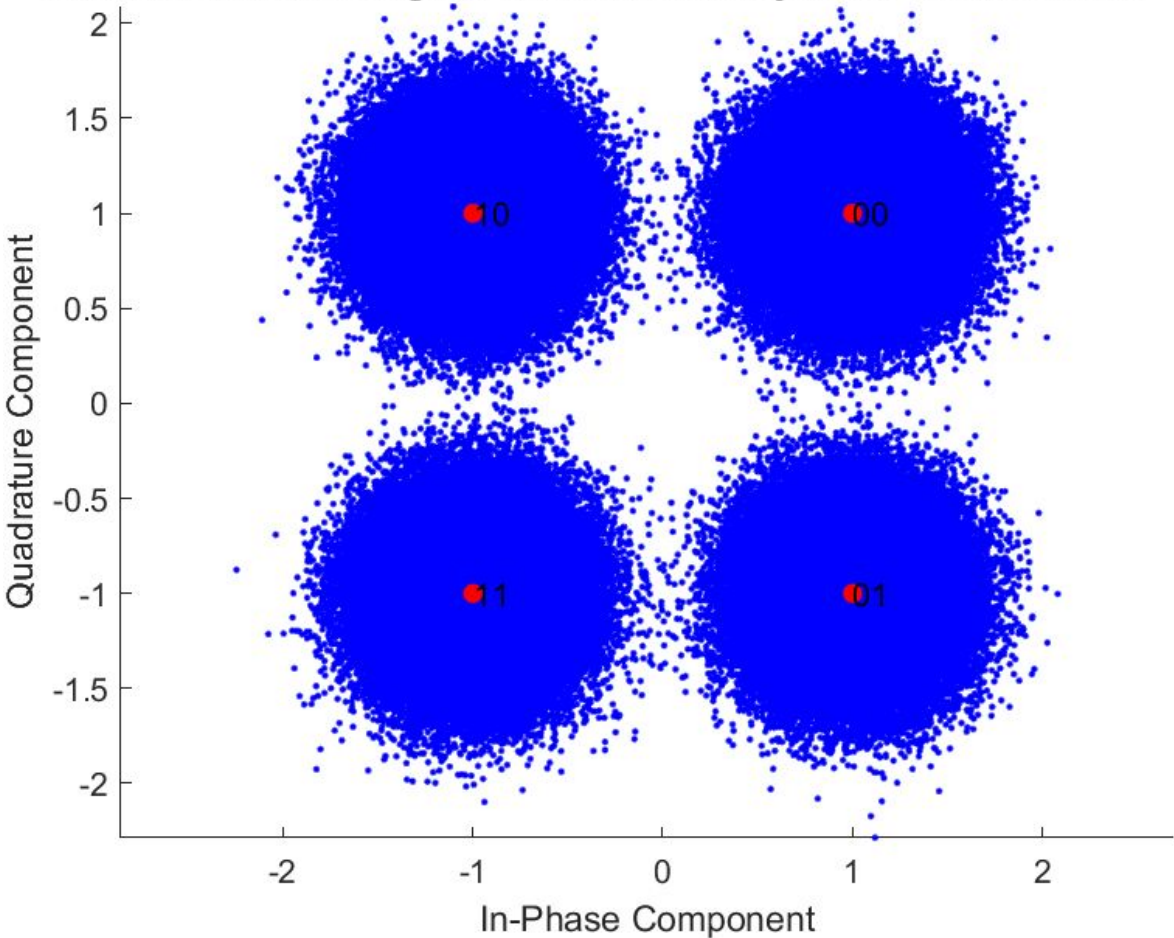


Constellation with original and erroneous symbols for SNR value =8 dB





Constellation with original and erroneous symbols for SNR value =9 dB



**Constellation with original and erroneous symbols for SNR value =10 dB**

