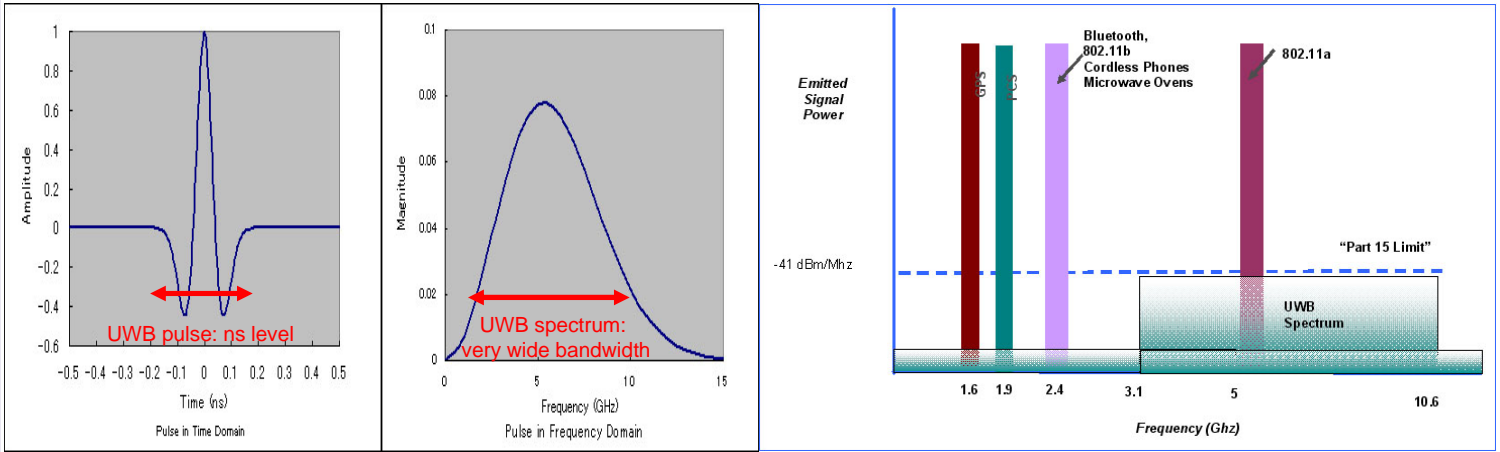


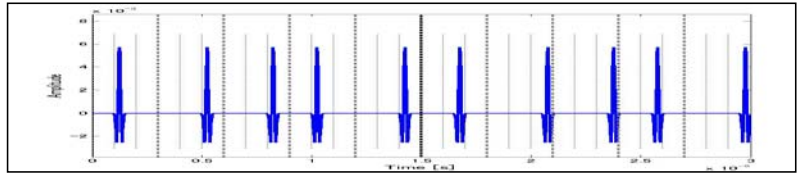
# Performance Analysis and Evaluation of DS-UWB System on Fading Channel

修士課程修了 曲 丹陽

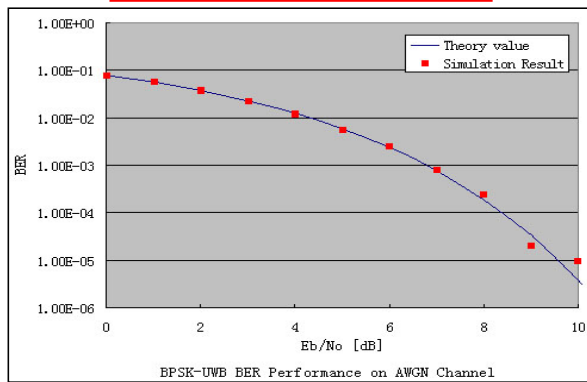
## Background



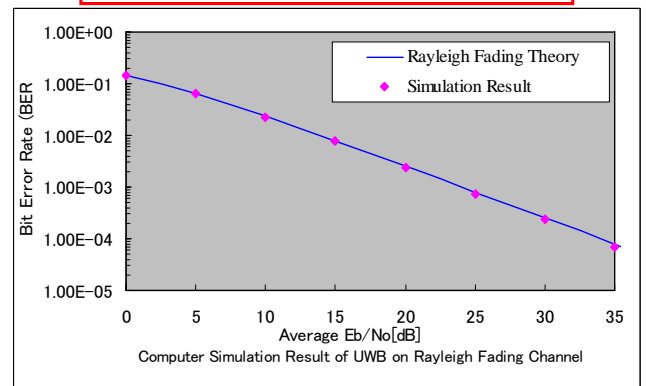
- UWB Signal: Short Duration, Wide Bandwidth
- Digital information: Transmitted by pulse train
- Important: Performance analysis and evaluation



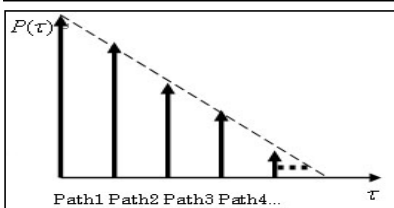
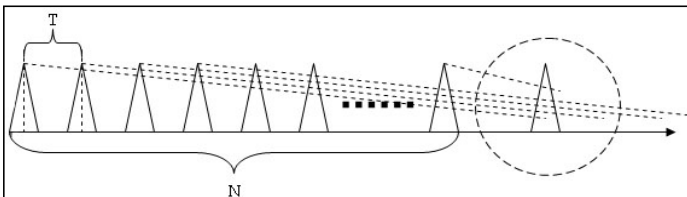
## AWGN Channel



## Rayleigh Fading Channel



## Rayleigh Fading Channel in The Presence of ISI



$$P(\tau) = \frac{1}{\sigma} e^{(-\tau/\sigma)}$$

