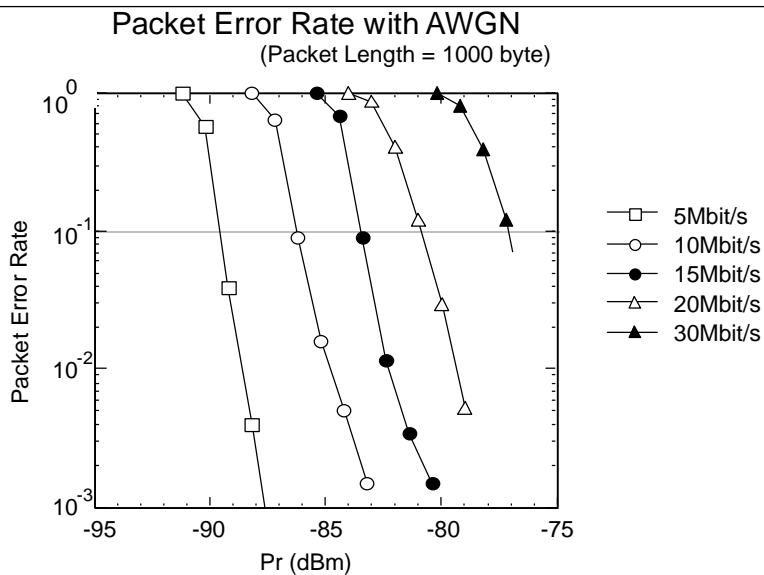


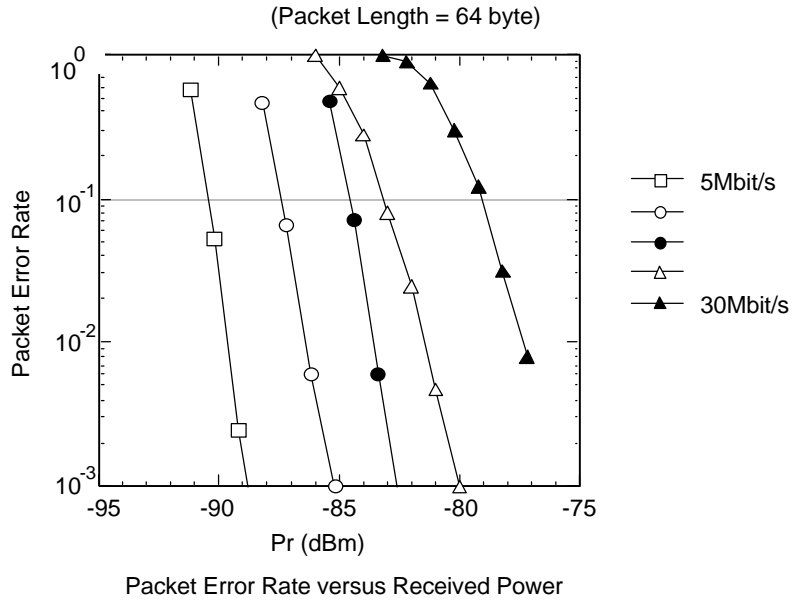
# Performance Evaluation of Proposed OFDM

Richard van Nee, Hitoshi Takanashi  
and Masahiro Morikura

Lucent + NTT

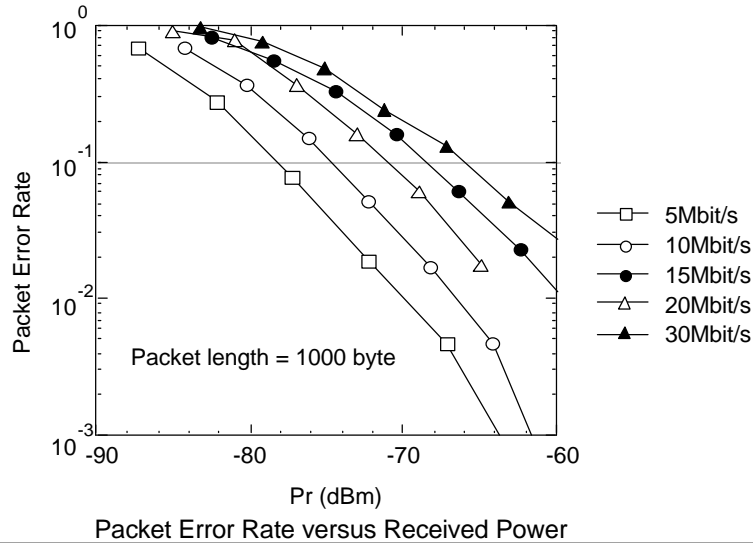


Packet Error Rate versus Received Power

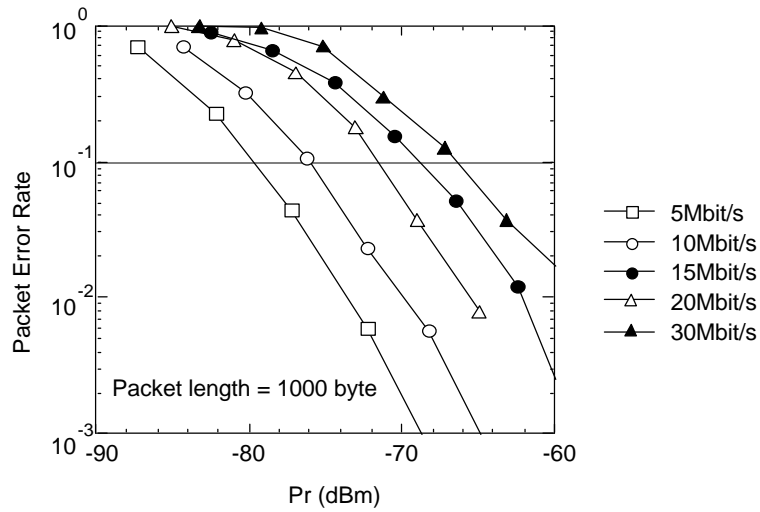


Packet Error Rate in Multipath Propagation with AWGN

(Exponential profile Rayleigh fading channel, Delay Spread = 25 nsec)

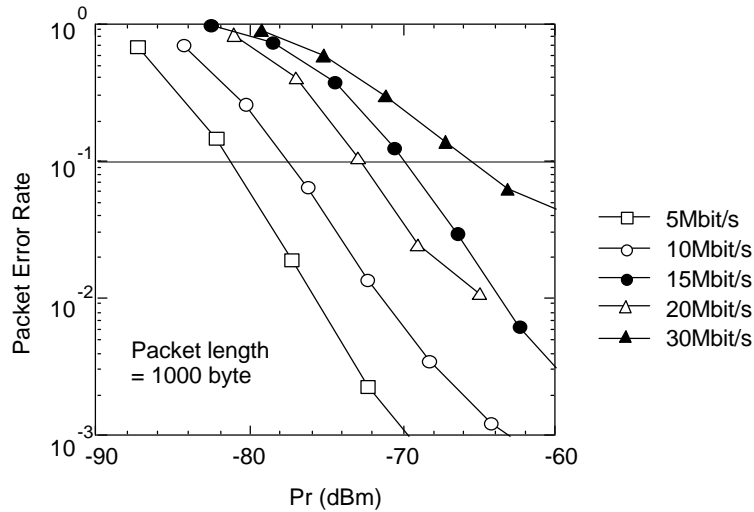


**Packet Error Rate in Multipath Propagation with AWGN**  
(Exponential profile Rayleigh fading channel, Delay Spread = 50 nsec)



Packet Error Rate versus Received Power

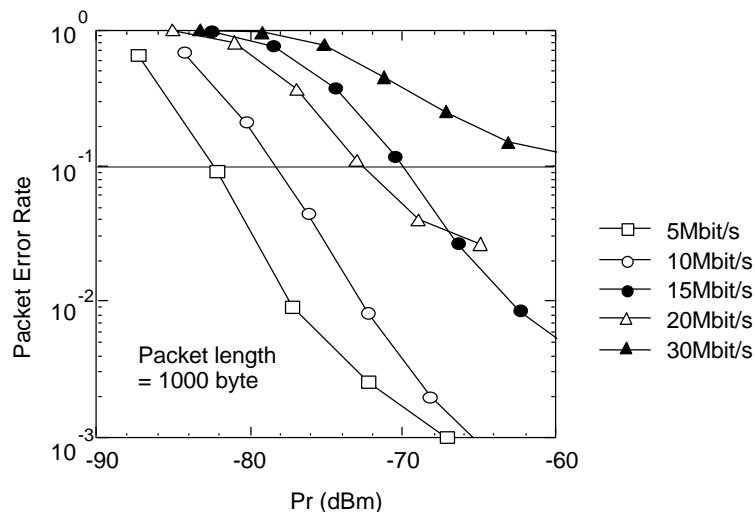
**Packet Error Rate in Multipath Propagation with AWGN**  
(Exponential profile Rayleigh fading channel, Delay Spread = 100 nsec)



Packet Error Rate versus Received Power

### Packet Error Rate in Multipath Propagation with AWGN

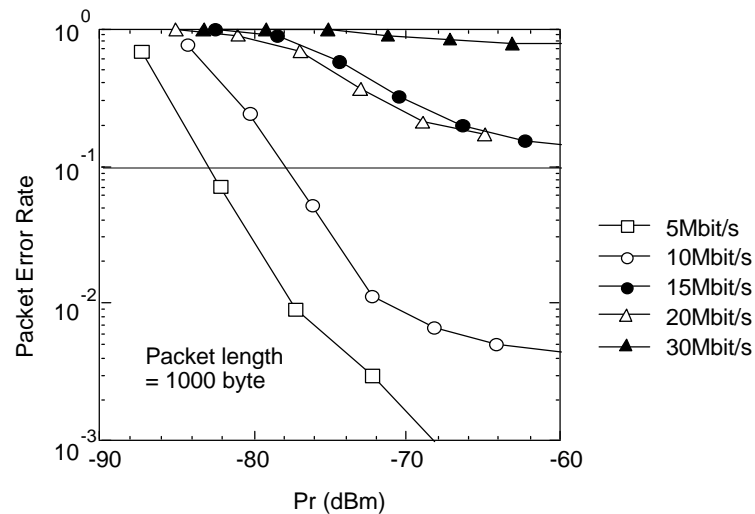
(Exponential profile Rayleigh fading channel, Delay Spread = 150 nsec)



Packet Error Rate versus Received Power

### Packet Error Rate in Multipath Propagation with AWGN

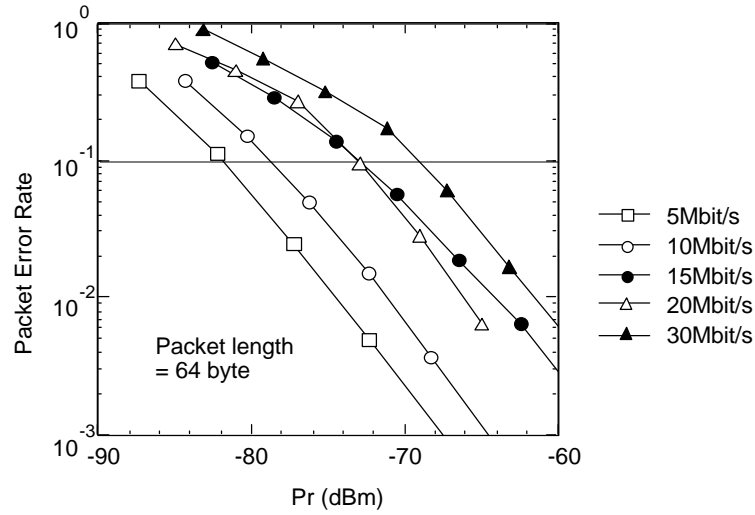
(Exponential profile Rayleigh fading channel, Delay Spread = 250 nsec)



Packet Error Rate versus Received Power

### Packet Error Rate in Multipath Propagation with AWGN

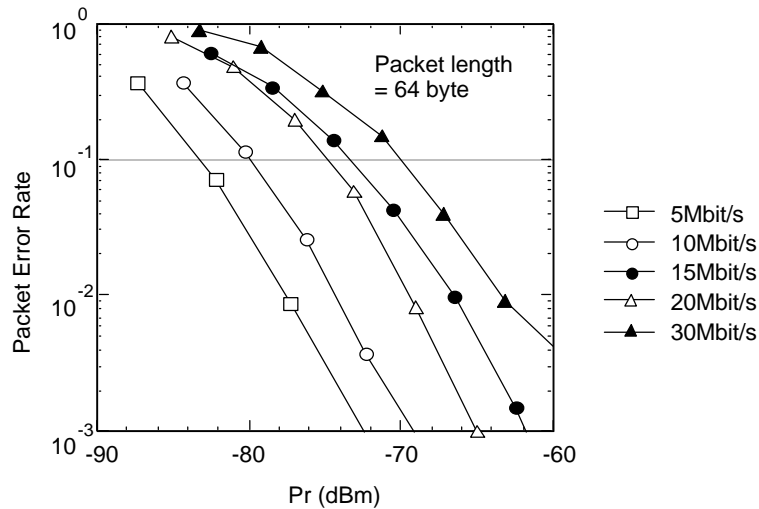
(Exponential profile Rayleigh fading channel, Delay Spread = 25 nsec)



Packet Error Rate versus Received Power

### Packet Error Rate in Multipath Propagation with AWGN

(Exponential profile Rayleigh fading channel, Delay Spread = 50 nsec)



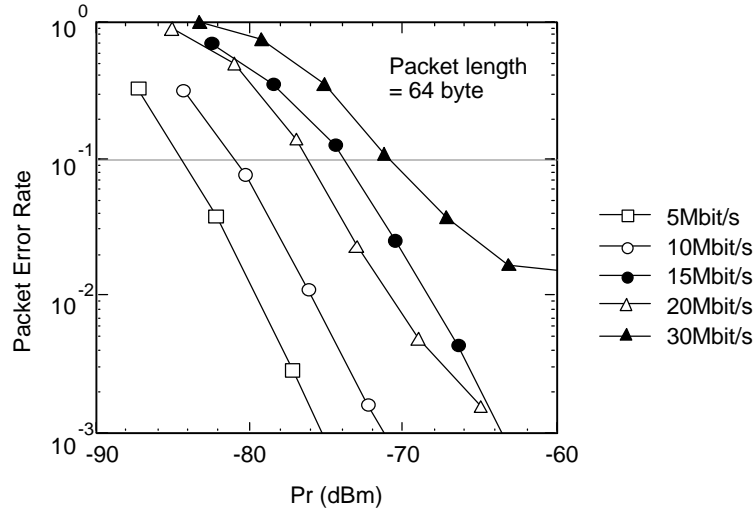
Packet Error Rate versus Received Power

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### Packet Error Rate in Multipath Propagation with AWGN

(Exponential profile Rayleigh fading channel, Delay Spread = 100 nsec)



Packet Error Rate versus Received Power

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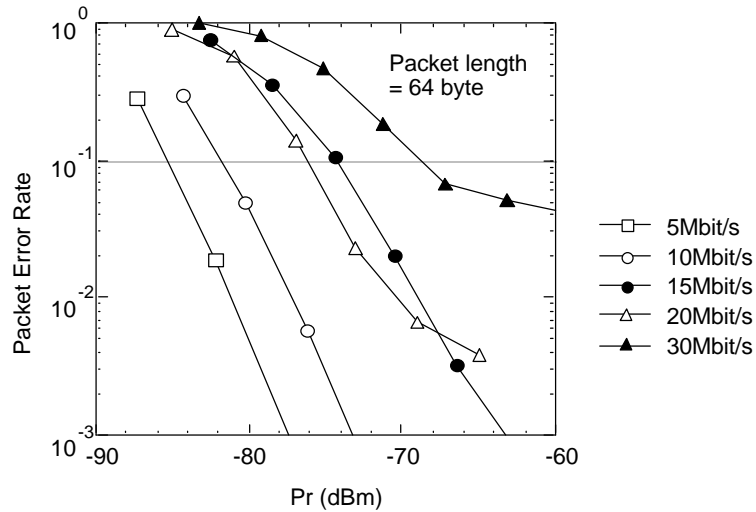
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### Packet Error Rate in Multipath Propagation with AWGN

(Exponential profile Rayleigh fading channel, Delay Spread = 150 nsec)



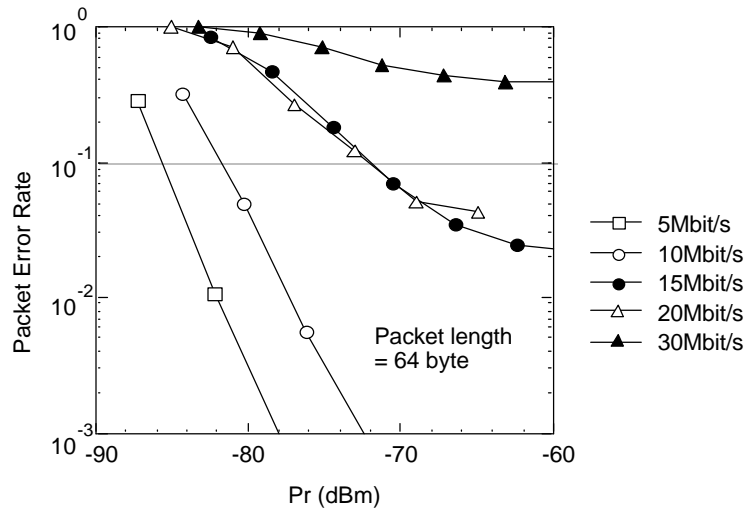
Packet Error Rate versus Received Power

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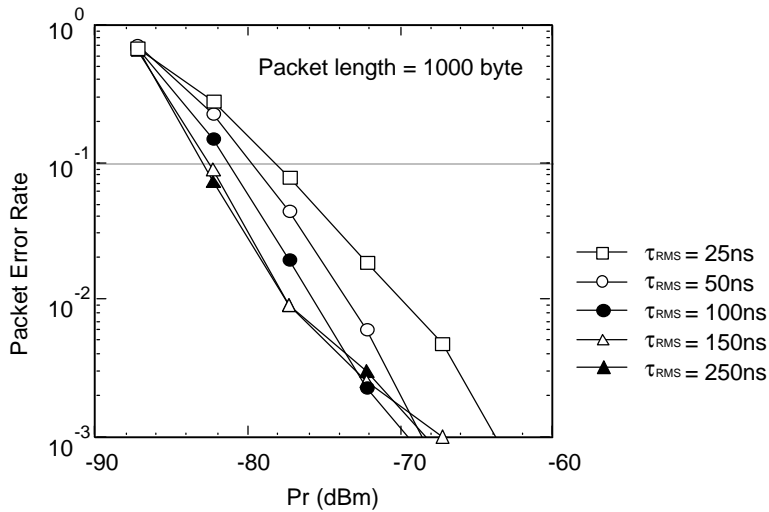
Richard, Hitoshi and Masahiro, Lucent+NTT

### Packet Error Rate in Multipath Propagation with AWGN (Exponential profile Rayleigh fading channel, Delay Spread = 250 nsec)



Packet Error Rate versus Received Power

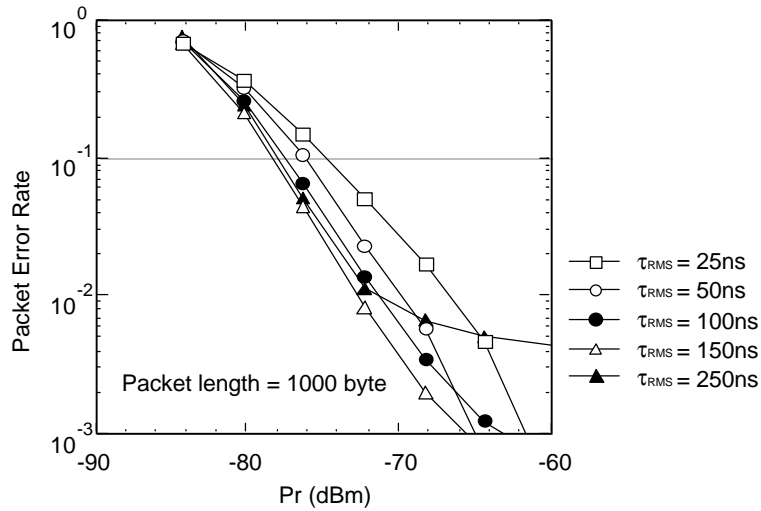
### Packet Error Rate in Multipath Propagation with AWGN Information data rate = 5Mbit/s, Coding rate = 1/2)



Packet Error Rate versus Received Power

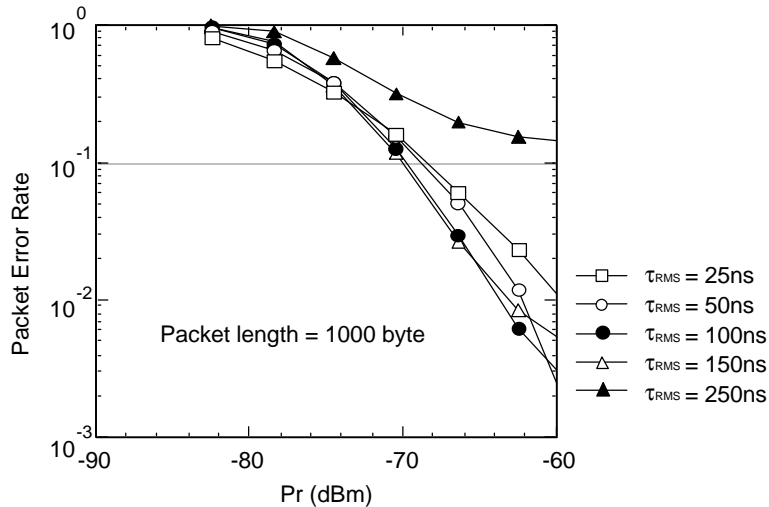
Packet Error Rate in Multipath Propagation with AWGN

Information data rate = 10Mbit/s, Coding rate = 1/2)



Packet Error Rate in Multipath Propagation with AWGN

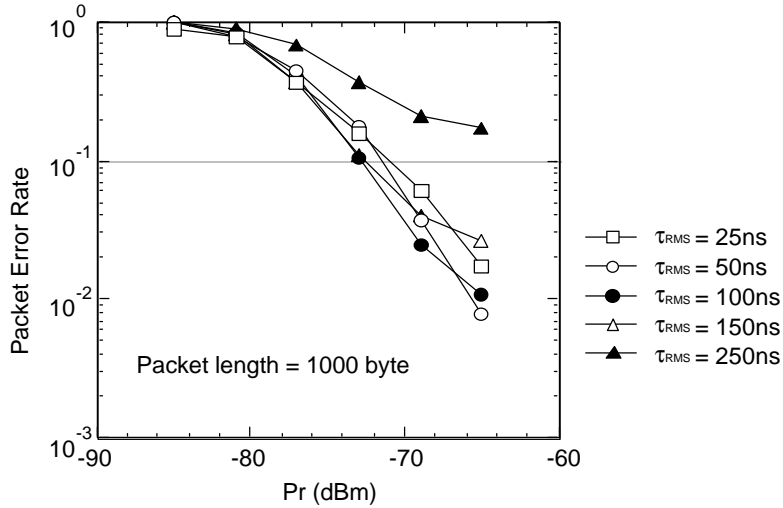
Information data rate = 15Mbit/s, Coding rate = 3/4)





### Packet Error Rate in Multipath Propagation with AWGN

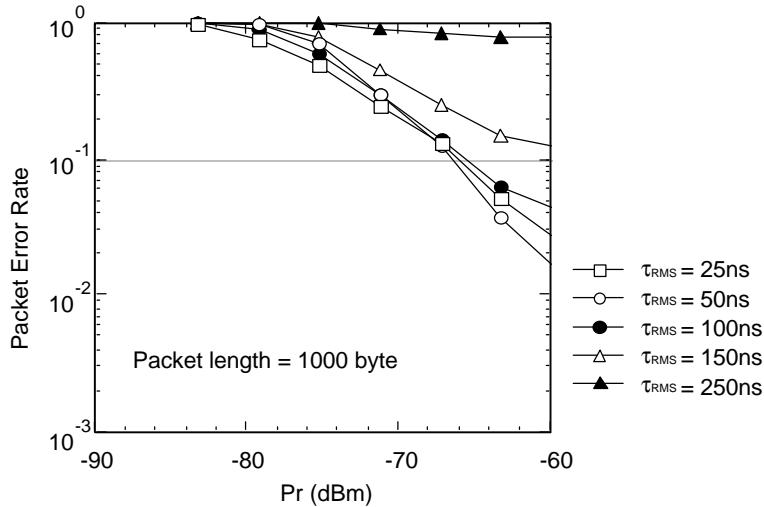
Information data rate = 20Mbit/s, Coding rate = 1/2)



Packet Error Rate versus Received Power

### Packet Error Rate in Multipath Propagation with AWGN

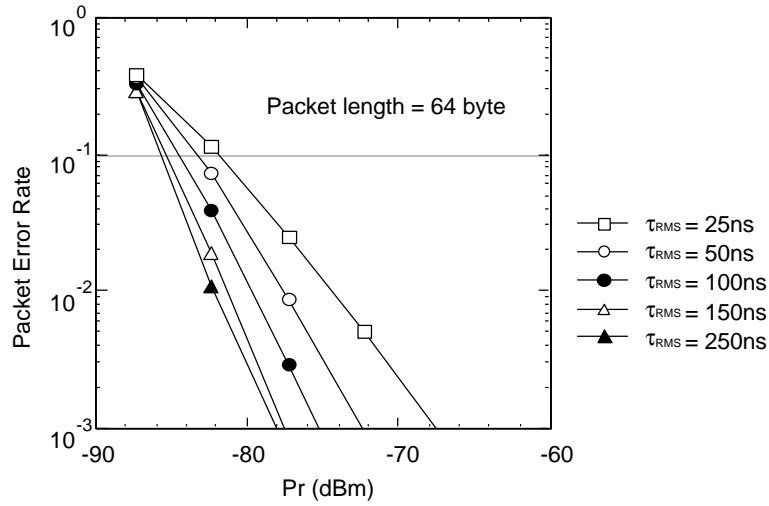
Information data rate = 30Mbit/s, Coding rate = 3/4)



Packet Error Rate versus Received Power

### Packet Error Rate in Multipath Propagation with AWGN

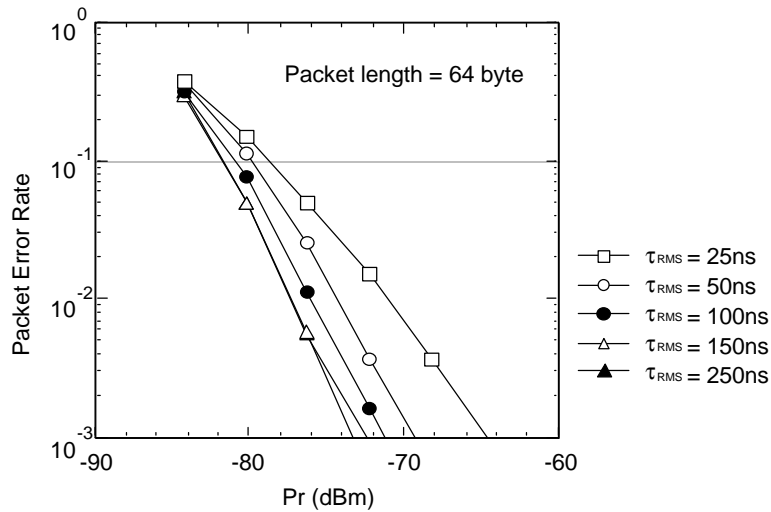
Information data rate = 5Mbit/s, Coding rate = 1/2)



Packet Error Rate versus Received Power

### Packet Error Rate in Multipath Propagation with AWGN

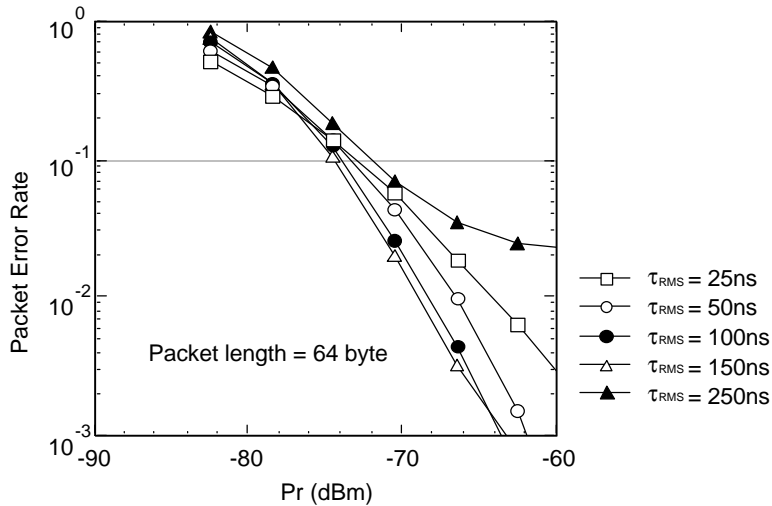
Information data rate = 10Mbit/s, Coding rate = 1/2)



Packet Error Rate versus Received Power

### Packet Error Rate in Multipath Propagation with AWGN

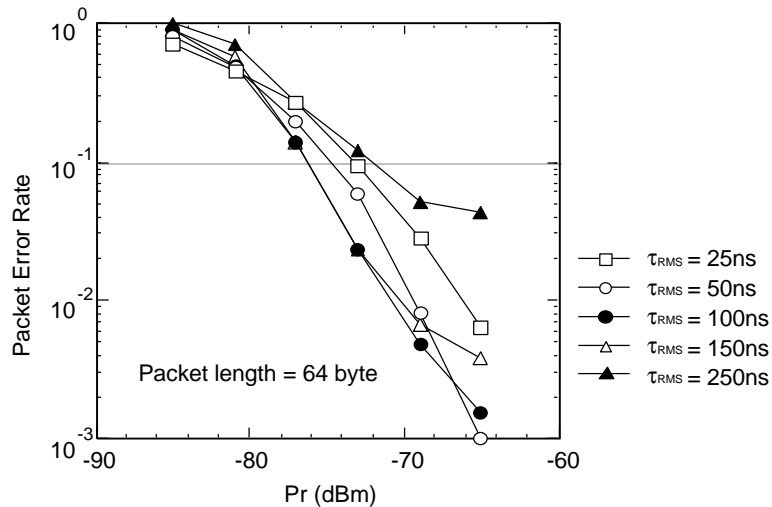
Information data rate = 15Mbit/s, Coding rate = 3/4



Packet Error Rate versus Received Power

### Packet Error Rate in Multipath Propagation with AWGN

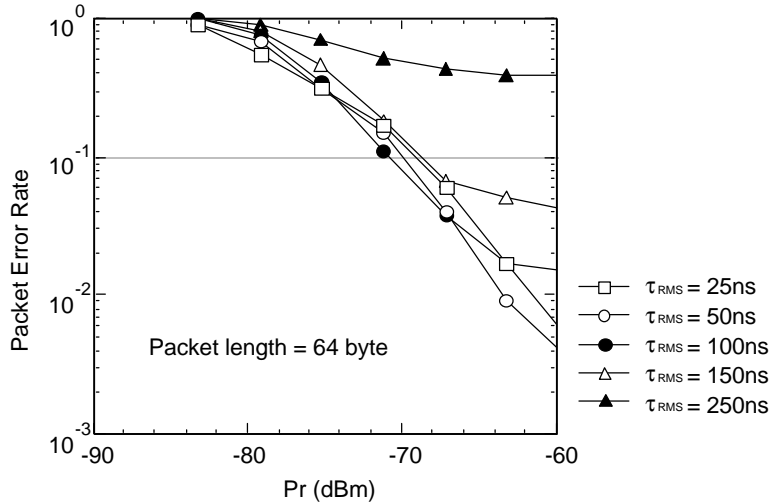
Information data rate = 20Mbit/s, Coding rate = 1/2



Packet Error Rate versus Received Power

### Packet Error Rate in Multipath Propagation with AWGN

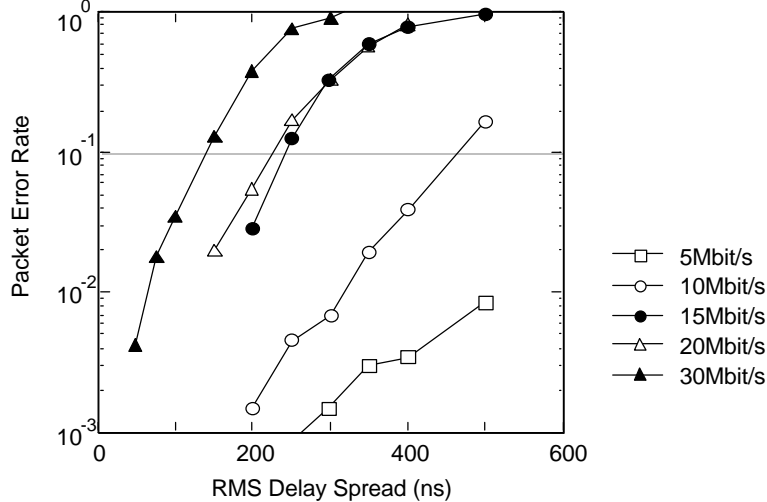
Information data rate = 30Mbit/s, Coding rate = 3/4



Packet Error Rate versus Received Power

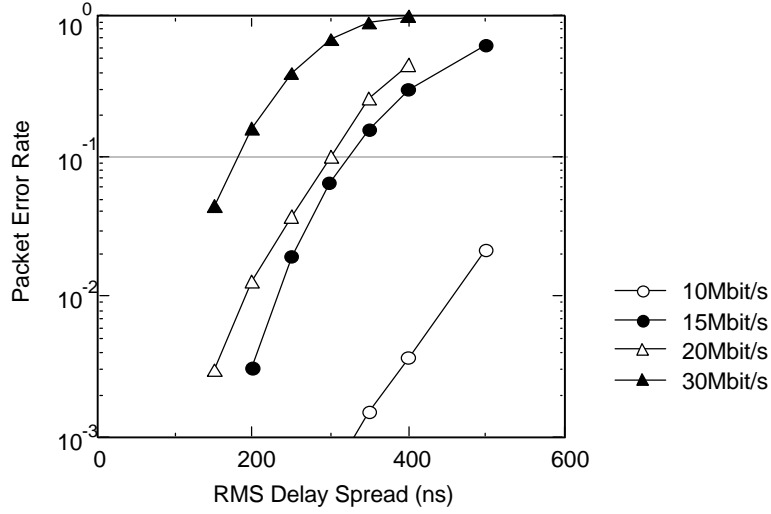
### Packet Error Rate in Multipath Propagation

(Exponential profile Rayleigh fading channel, Packet length = 1000 byte)



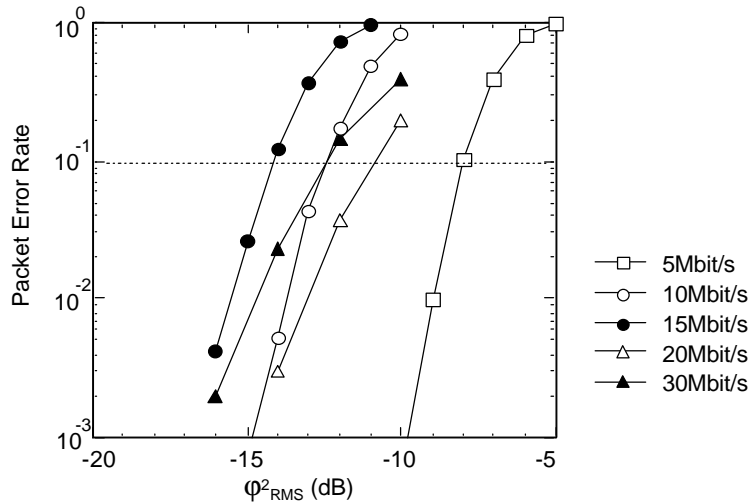
Packet Error Rate versus RMS Delay Spread

### Packet Error Rate in Multipath Propagation (Exponential profile Rayleigh fading channel, Packet length = 64 byte)



Packet Error Rate versus RMS Delay Spread

### Packet Error Rate with Phase Noise (Packet Length = 1000 byte)

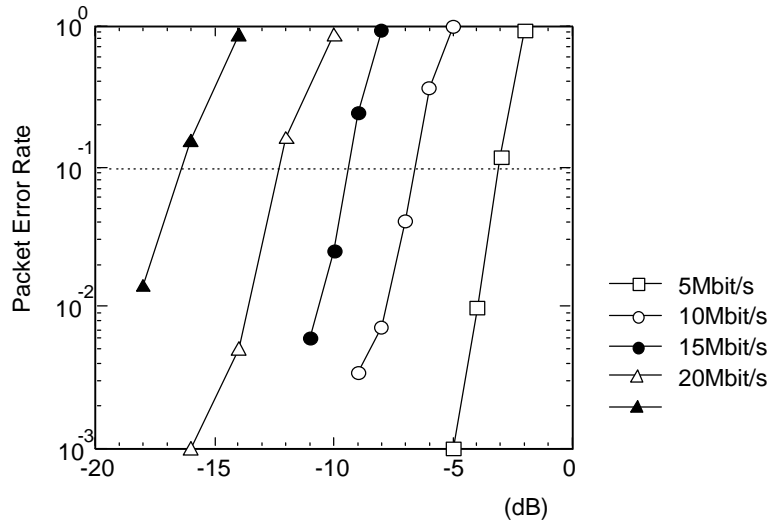


Packet Error Rate versus  $\phi_{RMS}^2$

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### Packet Error Rate with Co-channel Interference (Packet Length = 1000 byte)



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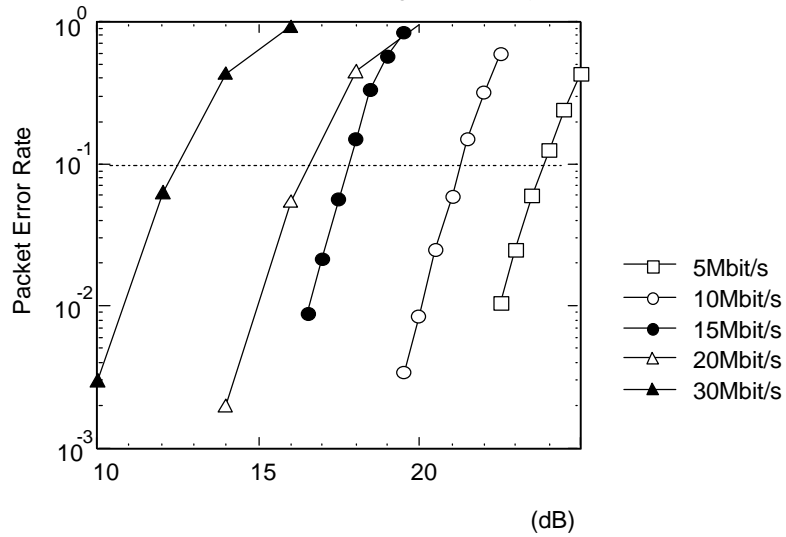
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### Packet Error Rate with Adjacent Channel Interference (Packet Length = 1000 byte)



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