

## **ABSTRACT**

WCDMA Downlink Channel is expected to can bring high datare service. The trouble is interferences between user and channel estimation process.

In this final project will be done research about channel estimation process with predefine phase method that will be applied in Mobile Station (MS) with use phase portion of Base Terminal Station (BTS) that is mixed by channel to accept maximum power signal. From maximum power signal will be got portion phase that will applied in BTS to broadcast signal that will be accepted by Mobile Station

This method will be used uniform Linier array with 2 antenna element that the distance is  $\lambda/2$ . The Portion Phase of MS will be set same with phase of BTS. In this research is also will compare performance between predefine phase method and predefine phase method. Study comparing consist of noise, fading, and interference

The result of this research will show that predefine phase system is better than without predefine phase system

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