

## Block Designs with a Missing Observation in Diallel Crosses

Jang Jae Lee (조선대학교 대학원)

지도교수 : 최 규 정

### Abstract

Diallel cross design commonly used to study the genetic properties of inbred lines in plant breeding experiments. We studies robustness of optimal block designs for estimating general combining ability(gca) effects against loss of a single observation in diallel cross. To illustrate the process of examining the effects of losing a single observation from a diallel cross design, we shall consider the situation where crosses are lost from theoptimal CDC block designs.