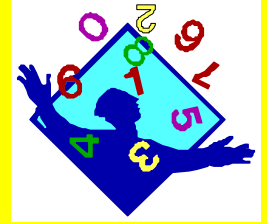


# STATISTICS SEMINAR



## Three-directional $3(2^{n-2})$ factorial experiment having maximum outcomes

**M. Shamsuddin**  
**Visitor, Department of Statistics**  
**Kansas State University**

DATE: June 13, 2005

TIME: 3:00 pm

PLACE: Dickens 106

REFRESHMENTS: 2:30 – Dickens 108

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The  $3(2^{n-2})$  fractional factorial design is the three directional three-fourth replicate of a  $2 \times 2$  factorial  $2^n$  design. The design provides the estimates of important factorial effects and three directional variables as three types of block effects in three different directions. A 6-point factorial design is given to show 6 types of estimates including the estimate of three directional variables and main effects. A practical application is also given.

\*\* Upcoming seminars may also be found on the web at <http://www.ksu.edu/stats/current.seminars/nav.currentseminars.html>.