

**SOMS Friday Seminar
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SMC 305
2:30-3:25**

Step-up Tests for Number of Active Effects in Orthogonal Saturated Designs

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ABSTRACT

A sequence of null hypotheses regarding the number of negligible effects (zero effects) in orthogonal saturated designs is formulated. Some stochastic ordering results are obtained for functions of normally distributed effect estimates. With these results and the assumption of effect sparsity, we show that two step-up simultaneous testing procedures strongly control experiment-wise error rate.

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Refreshments provided after seminar