



THE UNIVERSITY OF
CHICAGO

Department of Statistics
FIRST YEAR PHD MINI SEMINARS

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**Optimal Rates of Convergence for Convex Set
Estimation from Support Functions**

FRIDAY, May 24, 2013 at 4:00 PM
110 Eckhart Hall, 5734 S. University Avenue

ABSTRACT

We present a minimax optimal solution to the problem of estimating a compact, convex set from finitely many noisy measurements of its support function. The solution is based on appropriate regularizations of the least squares estimator. Both fixed and random designs are considered.

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