

Time: Wednesday May 4th, 2011 3:00pm

Location: Buchanan A203

Covering a convex body by translates of its negative

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A common theme in convex geometry is the notion of *covering* a convex set in an economical way, subject to some constraints on the covering sets. Such famous problems as the illumination conjecture, Soltan's conjecture on covering by homothets, the Borsuk problem, and Tarski's plank problem all fall under this theme. I will give a gentle (and extremely nonexhaustive) introduction to this subject, and describe some recent progress on the specific problem of covering a convex body by translates of its negative.