

Department of Applied Mathematics and Statistics
The Johns Hopkins University

STUDENT SEMINAR

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304 Whitehead Hall
4:00 p.m.

SEMI-OBNOXIOUS MULTIFACILITY LOCATION

ABSTRACT

Presumably, a facility would not be built at all unless it were to provide a service that some entity found desirable. Conversely, even the most “desirable” of facilities (e.g., hospitals, fire stations, and police stations) exhibit undesirable characteristics. The fact is that most facilities cannot be classified as either purely desirable or purely obnoxious, though in many cases one or the other of these characteristics is so dominant that in practice its opposite can be ignored. The location literature defines facilities falling between the two extremes as semi-desirable or semi-obnoxious. This talk will focus on some problems concerning the simultaneous location of multiple semi-obnoxious facilities in continuous space.