

# Michigan Math Club

Thursday at 4pm in the Commons

Free Pizza and Pop



## Convexity

Hala Shehadeh

Abstract for 11 Apr 2013

A convex set is a set which contains all line segments connecting any two of its points. This notion of convexity is surprisingly important and it appears in a wide variety of pure and applied topics, especially optimization. I will give examples of convex sets, convex functions and convex functionals and will show how many problems, when viewed in the right set of variables, become convex optimization problems that are easy to solve.

