1 Why

2 Main Result

Corollary 1. *Let* $(b_i)_{i\in I}$ *be a family in* $\mathbf{R}^n$ *and* $(\beta_i)_{i\in I}$ *be a family in* $\mathbf{R}$*. The set*

$$\{x \in \mathbf{R}^n \mid \langle x, b_i\rangle \leq \beta_i \text{ for all } i \in I\}$$

is convex.

A *polyhedral* convex set is one which can be expressed as the intersection of a finite family of closed halfspaces.


Convex Sets and Halfspac
Halfs
Affine