

The Barrier Cone of a Convex Set and the Closure of the Cover

J. Bair and J. C. Dupin

University of Liege, FEGSS, 7 bd du Rectorat, B31, 4000 Liege, Belgium, j.bair@ulg.ac.be and University of Valenciennes, Department of Mathematics, BP 311, 59304 Valenciennes-Cedex, France

Abstract: For an arbitrary non-empty closed convex set A in \mathbb{R}^n , we prove that the polar of the difference between the barrier cone $\mathbb{B}(A)$ and its interior $\text{int } \mathbb{B}(A)$ coincides with the recession cone $0^+ (\text{cl } \mathbb{G}(A))$ of the closure of the cover $\mathbb{G}(a)$.



Keywords: convex set, barrier cone, recession cone, cover, polar cone

Classification (MSC2000): 52A20

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