# Strongly $\mathbb{C}$-lineraly convex domains: new characterization and regularity of solution operators for $\bar{\partial}$ with minimal smoothness (based on paper by Gong and Lanzani)

Arkadiusz Lewandowski

**Abstract** We shall present main result of the paper X.Gong, L. Lanzani, *Regularity of a $\bar{\partial}$-solution operator for strongly $\mathbb{C}$-linearly convex domains with minimal smoothness*, Elias M. Stein: In Memoriam. J. Geom. Anal. 31(2021), 6796–6818., concerning the regularity of solutions of the $\bar{\partial}$-problem in the Hölder-Zygmund spaces of bounded strongly $\mathbb{C}$-linearly convex domains of class $\mathcal{C}^{1,1}$. The proof relies, among others, on a new analytic characterization of such domains, which we shall also discuss.