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A characterization of holomorphic germs on compact perfect sets

Abstract: Let $K \subseteq \mathbb{C}$ be a perfect compact set, E a quasi-complete locally convex space over $\mathbb{C}$ and $f : K \to E$ a map. In this note we give a necessary and sufficient condition — in terms of differential quotients — for f to have a holomorphic extension on a neighborhood of K.