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The Caratheodory–Cartan–Kaup–Wu theorem on an infinite-dimensional Hilbert space

Let Ω be a bounded convex domain in a separable Hilbert space. Let $f : \Omega \to \Omega$ be a holomorphic mapping with a fixed point p. We give a criterion, in terms of triangularizability and spectral properties of df_p, for f to be biholomorphic. This is joint work with Joseph A. Cima (Chapel Hill), Kang-Tae Kim (Pohang University of Science and Technology, Korea), and Steven G. Krantz (Washington University, St. Louis).