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Unitary weighted composition operators on reproducing kernel Hilbert spaces of holomorphic functions

Weighted composition operators play an important role when determining the surjective isometries on some Banach spaces of functions. In this talk I will present a characterization of the class of unitary weighted composition operators acting on a special family of Hilbert spaces of holomorphic functions. I will also mention some general geometric aspects of these types of investigations that are closely related to the problems on classification of reproducing kernel Hilbert spaces.