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Common range of co-analytic Toeplitz operators in the Drury–Arveson space

A theorem of McCarthy describes the space of all functions in the Hardy space on the unit disc that belong to the range of every co-analytic Toeplitz operator. This space is intimately related to the classical Smirnov class on the unit disc. In multivariable operator theory, the appropriate generalization of the classical Hardy space is often thought to be the Drury–Arveson space H_d^2 on the unit ball in $\mathbb{C}^d$.

I will talk about a generalization of the Smirnov class to this setting. Moreover, I will explain how it sheds light on the common range of adjoints of multiplication operators on H_d^2. This is joint work with Alexandru Aleman, John McCarthy and Stefan Richter.

Dienstag, 05.11.2019, 15:00 Uhr, Raum c311
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