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REMARKS ON RESTRICTION EIGENFUNCTIONS IN $\mathbf{C}^{n*}$

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Dedicated to Ed Saff on the occasion of his 60th birthday

Abstract. An elementary inquiry, based on examples and counterexamples, of some qualitative properties of doubly orthogonal systems of analytic functions on domains in $\mathbf{C}^n$ leads to a better understanding of the deviation from the classical Hardy space of the disk setting. The main results relay on Hilbert space with reproducing kernel techniques.

Key words. Hilbert space with reproducing kernel, restriction operator, doubly orthogonal system, min-max principle

AMS subject classifications. 47A75, 32A25, 65F15

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