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Hankel forms on the Dirichlet space

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A Hankel form on the Dirichlet Space is a bilinear form which depends only on the product of its arguments. We prove that such a form is bounded if and only if its associated symbol can be used to generate a Carleson measure for the Dirichlet space. The theorem is analogous to results about Hankel operators on the Hardy space and boundedness criteria for Schrödinger operators ; however the proof is quite different. The talk will discuss the context of this result and some discussion on the proof.

This is a joint work with with N. Arcozzi, E. Sawyer, and B. Wick. .