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A non-commutative boundary for the dilation order

Arveson's hyperrigidity conjecture focuses on the unique extension property (UEP) of representations of C^* -algebras with respect to a generating operator system. The states that are maximal in the dilation order fully encapsulate the cyclic representations of a C^* -algebra with the UEP. The set of all maximal states form a norm-closed set which remains stable under absolute continuity. In this talk, we will discuss an equivalent characterization of the dilation maximal states in terms of a *boundary projection*. Subsequently, we will state a reformulation of Arveson's hyperrigidity conjecture in terms of the non-commutative topological properties of this boundary projection. This is a joint work with Raphaël Clouâtre.