1154-47-2620 **Stephanie Prahl*** (stephanie.prahl@huskers.unl.edu). *Determining Hyperrigidity of Operator Systems.*

An operator system $\mathcal{S}$ that generates a C^*-algebra $\mathcal{A}$ is said to be *hyperrigid* in $\mathcal{A}$ if for every non-degenerate representation π of $\mathcal{A}$ on a Hilbert space, the only unital completely positive map extending $\pi|_{\mathcal{S}}$ to $\mathcal{A}$ is π itself. This notion has strong connections to the non-commutative Choquet boundary of an operator system and its C^*-envelope. In fact, if an operator system $\mathcal{S}$ is hyperrigid in $\mathcal{A}$, then $\mathcal{A}$ must be the C^*-envelope of $\mathcal{S}$. This implies that hyperrigidity can be thought of as a property intrinsic to the operator system rather than relative to a C^*-algebra. We discuss some recent results in determining whether an operator system $\mathcal{S}$ is hyperrigid in its C^*-envelope, even if $\mathcal{S}$ is viewed in a C^*-algebra that is not the C^*-envelope. (Received September 17, 2019)