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*Stability conditions and cluster varieties*

I will describe a construction that associates a 3-Calabi-Yau triangulated category to a quiver with potential. There are two interesting spaces that reflect the structure of this category. The first is a complex manifold parametrizing Bridgeland stability conditions, and the second is a kind of non-separated scheme called a cluster variety. I will describe a theorem that relates these two spaces in a large class of examples arising from triangulated surfaces.