Relating stability conditions and cluster varieties

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Abstract

I will describe the relationship between two spaces associated to a quiver with potential. The first is a complex manifold parametrizing Bridgeland stability conditions on a certain triangulated category, and the second is a cluster variety with a natural Poisson structure. For quivers of type A_n, I will describe a local biholomorphism from the space of stability conditions to the cluster variety. This result is a special case of work in progress with Tom Bridgeland.

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