

The space of stability conditions is an interesting geometric invariant of a triangulated category motivated by a physical notion of stability in string theory. Of particular interest is when the category is the bounded derived category of coherent sheaves on a Calabi-Yau manifold where the space of stability conditions has a conjectural mirror-theoretic interpretation via the period map of its mirror family.

In this talk I will consider Calabi-Yau- $n$  triangulated categories modelled on the  $A_2$  root system, which might be thought of as some particularly simple local pieces of the above geometric categories. We will see a uniform description of the spaces of stability conditions for all Calabi-Yau dimensions  $n$  via periods of meromorphic abelian differentials on the universal family of elliptic curves. It is obtained by applying Dubrovin's almost duality to the Frobenius manifold structure on the unfolding space of the  $A_2$  singularity.