

## Wall-crossing structures arising from surfaces

Families of Bridgeland stability conditions induce families of stability data (DT invariants), wall-crossing structures and scattering diagrams on the motivic Hall algebra. These structures can be transferred to the quantum torus if the stability conditions of the family have global dimension at most 2. I will discuss geometric stability conditions on a surface with nef anticanonical bundle. These stability conditions have global dimension 2, hence induce a family of stability data. I will also discuss the relationship of this family to the family of stability data associated to a quiver with potential, with an emphasis on the projective plane.

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