Contribution ID: **20** Type: **In-person Talk**

Walls and asymptotics for Bridgeland stability conditions on threefolds

Tuesday, 14 June 2022 10:00 (1 hour)

Let X be a smooth projective threefold of Picard number one for which the generalized Bogomolov–Gieseker inequality holds, and consider the geometric Brigdeland stability conditions conjectured by Macri–Bayer–Toda. We characterize limit semistable objects, showing that these are Gieseker semistable sheaves for large values of $|\beta|$ and a higher rank generalization of PT stable pairs for large values of α. We also discuss properties of walls and provide a precise description of the Bridgeland moduli spaces for Chern characters of the form $(r, 0, d, 0)$ in certain regions of the (α, β) plane.

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