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Holomorphic symplectic geometry of the space of Bridgeland stability conditions

For a Calabi-Yau triangulated category D of odd dimension, the space Stab(D) of Bridgeland stability conditions on D is naturally a holomorphic symplectic manifold. I will discuss geometry of Lagrangian submanifolds of Stab(D) in comparison with the Donagi-Markman integrable system. I will also explain our attempt to identify the gauged Kahler moduli space inside Stab(D) when D comes from Calabi-Yau geometry. This is a joint work with Y.-W. Fan and S.-T. Yau.