

Holomorphic automorphisms of Calogero-Moser Spaces

Rafael Andrist

Talk given at Seminar on Complex Analysis,
meeting 2287, December 7, 2020

A Calogero-Moser space describes the (completed) phase space of a certain system of finitely many particles in classical physics. Since the past two decades, these spaces are also an object of ongoing study in pure mathematics. In particular, a Calogero-Moser space of n particles is known to be a smooth complex-affine variety, and to be diffeomorphic to the Hilbert scheme of n points in the affine plane. We establish the density property for the Calogero-Moser spaces and describe their group of holomorphic automorphisms.