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*Fakultät für Mathematik  
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Im Rahmen der

## **AG Komplexe Analysis**

laden wir zu folgendem Vortrag ein:

### **Symplectic holomorphic automorphisms of Calogero–Moser spaces**

**Professor Rafael Andrist (American University of Beirut)**

am **Dienstag, den 25.04.2023, um 16 Uhr c.t. in G.10.03 (Hörsaal 8).**

**Abstract:** A Calogero–Moser space describes the completed phase space of a system of finitely many particles with a certain Hamiltonian 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 symplectic/Hamiltonian holomorphic density property for the Calogero–Moser spaces and describe their group of symplectic holomorphic automorphisms. Joint work with Gaofeng Huang.

Alle Interessenten sind herzlich eingeladen!

gez. Prof. N. Shcherbina