

# BERNOULLIS TAFELRUNDE

GRADUATE STUDENT SEMINAR

**2 Dezember, 12:15-13:00**  
Grosser Hörsaal, Mathematisches Institut

MATTHIAS LEUENBERGER

Universität Bern

## Automorphisms of some affine surfaces

### ABSTRACT

The complex torus  $\mathbb{C}^* \times \mathbb{C}^*$  has no algebraic  $\mathbb{C}^+$ -action but still has a rich algebraic automorphism group. The algebraic automorphism group of other surfaces with a cyclic boundary is substantially smaller. In the holomorphic case the situation is different, since there exists always holomorphic  $\mathbb{C}^+$ -actions appearing as flows of complete vector fields.