

Announcement

Seminar on Deformation Quantization and Geometry

5. 7. 2024 at 14:00 s.t.

Seminarroom SE 31

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Rolling Reductive Homogeneous Spaces

In this talk, rollings of reductive homogeneous spaces are discussed from an intrinsic point of view. More precisely, if G/H is a reductive homogeneous space equipped with some invariant covariant derivative, where the reductive decomposition $\mathfrak{g} = \mathfrak{h} \oplus \mathfrak{m}$ is fixed, rollings of \mathfrak{m} over G/H are studied. In this setting, an explicit description of the configuration space as well as the distribution characterizing intrinsic rollings of \mathfrak{m} over G/H can be derived. Moreover, by studying a principal fiber bundle over the configuration space equipped with a suitable principal connection, the so-called kinematic equation is obtained.

Invited by Stefan Waldmann