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## The projective derivative as a dynamical tool

*Wednesday 4 December 2019 12:25 (30 minutes)*

When a group action of positive circle diffeomorphisms is considered, the projective derivative gives rise to a cocycle of Möbius transformations. By deducing precise expressions of this cocycle, we obtain several results about reducibility and almost reducibility to the group of rotations  $SL(2, \mathbb{R})$ . We also discuss novel and classical results about the projective derivative for real maps. This is a joint work with Andrés Navas (USACH).

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