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The projective derivative as a dynamical tool

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When a group action of positive circle diffeomorphisms is considered, the projective derivative gives raise to a cocycle of M̈obius transformations. By deducing precise expressions of this cocycle, we obtain several results about reducibility and almost reducibility to the group of rotations SL(2,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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