

## Locally conformally Kähler solvmanifolds

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A “locally conformally Kähler” (LCK) manifold is a Hermitian manifold whose metric is conformal to a Kähler metric in some neighbourhood of each point. Among them, the Vaisman manifolds (that is, those whose associated Lee form is parallel) are very interesting because of topological properties and relations with Sasakian geometry. In this talk we will review LCK and Vaisman structures on solvmanifolds, i.e., compact quotients of a simply connected solvable Lie group  $G$  by a discrete subgroup, where these structures are induced by left invariant ones on  $G$ . Joint work with Marcos Origlia.