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*Levi Foliations on Homogeneous CR Manifolds*

In this talk, we present recent results on the geometry of compact homogeneous Levi-flat CR manifolds, which carry a natural foliation. We show that, in the homogeneous setting, all leaves are biholomorphic and homogeneous under a complex Lie group action.

We analyze two main classes: parallelizable CR manifolds and projective orbits, and then unify these cases using the CR-normalizer fibration to obtain a classification in low codimension. Particular focus is given to the structure and classification of manifolds with dense leaves, supported by explicit examples.