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On symmetries of codimension 1 foliations

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Given a codimension 1 foliation \mathcal{F} on a projective manifold X , we study groups $G \leq (X, \mathcal{F})$ of birational transformations of X which preserve \mathcal{F} ; in particular, we seek conditions for G to be finite or, more generally, to induce a finite permutation group of the space of leaves (in such case we say that the action of G is transversely finite). We show finiteness for general type foliations with tame singularities and transverse finiteness for (non-virtually euclidean) transversely projective foliations. In this talk I will focus on the latter result and show how the presence of a transverse structure (projective, hyperbolic, spherical...) and the analysis of the resulting monodromy representation allow to reduce to the case of modular foliations on Shimura varieties and to conclude.