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**Igor Zelenko\*** ([zelenko@math.tamu.edu](mailto:zelenko@math.tamu.edu)), Department of Mathematics, Mailstop 3368, Texas A&M University, College Station, TX 77845-3368. *On geometry and symmetries of filtered structures on manifolds and curves of flags*. Preliminary report.

I will discuss the following two problems in local differential geometry and the interplay between them: the equivalence of filtered structures on manifolds (w.r.t. the action of the group of diffeomorphisms) and the equivalence of curves of flags in a linear space (w.r.t. the action of a subgroup of the General Linear group). In particular, I will show how the geometry of curves of flags of isotropic/coisotropic subspaces in a linear symplectic space (w.r.t. the action of Linear Symplectic Group) can be effectively used for the construction of canonical frames for non-holonomic vector distributions (subbundles of tangent bundles) satisfying very mild genericity assumptions and for the description of infinitesimal symmetries algebras of the most symmetric distributions from the considered classes. The talk is based on the joint work with Boris Doubrov (Minsk). (Received August 12, 2010)