Combined Abstract

The study of linear groups, *i.e.,* subgroups of matrix groups, goes back nearly to the beginning of group theory. The underlying motivation has usually been the study of monodromy, in one setting or another: differential equations, fiber bundles, Galois representations, etc.

In my talks, I will try to emphasize the group-theoretic ideas unifying the study of linear groups in various settings and especially the idea that algebraic groups should serve as models for all linear groups.