Title: "Greenberg realization"

Abstract: The classical Greenberg realization (or Greenberg transform) is a construction introduced by Lang in his thesis and studied by his student M.J. Greenberg. It is used to reduce the study of polynomial equations with coefficients in an artinian local ring to the study of certain polynomial equations with coefficients in a field.

In the talk, after recalling the classical construction and applications, I will present some new results.