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**Title:** On Poincaré compactification and the projectivization of polynomial vector fields

**Author(s):** Fengbai Li

The main purpose of this note is to clarify two commonly used notions, the Poincaré compactification and the projectivization, in the study of polynomial vector fields in  $\mathbf{C}^n$ . We show that these two notions are indeed equivalent.

**Address:**

Fengbai Li  
Department of Applied Mathematics  
School of Mathematics  
Shanghai University of  
Finance and Economics  
777 Guo Ding Road  
Shanghai, 200433  
P. R. China