COMPOSITION CONDITIONS FOR
TWO–DIMENSIONAL POLYNOMIAL SYSTEMS

M.A.M. ALWASH

Abstract. Several papers published recently about the center composition condition of Abel differential equations and two-dimensional polynomial systems with homogeneous nonlinearities. We give necessary and sufficient conditions for the existence of composition centers for general two-dimensional polynomial systems.


Keywords and phrases: two-dimensional polynomial systems, center problem, composition condition, Abel differential equation.

REFERENCES