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**Matthew P Gardner Spencer\*** (mgardner@holycross.edu). *Power Series under conjugation by the Nottingham Group.*

We consider the action of the Nottingham group over an algebraically closed field of characteristic  $p$  on various subsets of power series. We are mainly concerned with power series of the form  $x^n + \dots$  where  $p \mid n$ . In this case the action has more than one orbit. We give a characterization of the orbits. We further consider whether other actions of the Nottingham group give similar results. (Received September 16, 2014)