

ON THE ADJUNCTION FORMULA FOR 3-FOLDS IN CHARACTERISTIC $p > 5$

OMPROKASH DAS AND CHRISTOPHER D. HACON

ABSTRACT. In this article we prove a relative Kawamata-Viehweg vanishing-type theorem for PLT 3-folds in characteristic $p > 5$. We use this to prove the normality of minimal log canonical centers and the adjunction formula for codimension 2 subvarieties on \mathbb{Q} -factorial 3-folds in characteristic $p > 5$.

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1. INTRODUCTION

Let (X, Δ) be a log canonical pair and W a minimal log canonical center, then (under mild technical assumptions) by Kawamata's celebrated subadjunction theorem, it is known that W is normal and we can write $(K_X + \Delta)|_W = K_W + \Delta_W$ where (W, Δ_W) is Kawamata log terminal [Kaw98] (see also [Kaw97b] and the references therein). The proof of this result is based on the Kawamata-Viehweg vanishing theorem and Hodge theory. These results are known to fail in characteristic $p > 0$ and therefore one may expect that Kawamata's subadjunction also fails in this context. It should however be noted that related results have been obtained in the closely related context of F -singularities (see for example [Sch09], [HX15] and [Das15]) and that the minimal model program has been established for 3-folds in characteristic $p > 5$ (see [HX15] and [Bir13]). In particular [HX15] exploits the fact that PLT singularities in dimension 3 and characteristic $p > 5$ are closely related to the analogous notion of Purely F -regular singularities. In this paper, using the results from [HX15] and [Bir13], we show that in dimension 3 and characteristic $p > 5$ a relative version of the Kawamata-Viehweg vanishing theorem

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