

**Hacon, Christopher D.**

**Singularities of pluri-theta divisors in char  $p > 0$ .** (English) [Zbl 1360.14112](#)

Chen, Jungkai Alfred (ed.) et al., Algebraic geometry in East Asia – Taipei 2011. Proceedings of the conference, Taipei, Taiwan, November 16–20, 2011. Tokyo: Mathematical Society of Japan (MSJ) (ISBN 978-4-86497-024-2). Advanced Studies in Pure Mathematics 65, 117-122 (2015).

Summary: We show that if  $(X, \Theta)$  is a PPAV over an algebraically closed field of characteristic  $p > 0$  and  $D \in |m\Theta|$ , then  $(X, \frac{1}{m}D)$  is a limit of strongly  $F$ -regular pairs and in particular  $\text{mult}_x(D) \leq m \cdot \dim X$  for any  $x \in X$ .

For the entire collection see [\[Zbl 1321.14003\]](#).

**MSC:**

**14K05** Algebraic theory of abelian varieties

**14F17** Vanishing theorems in algebraic geometry

**13A35** Characteristic  $p$  methods (Frobenius endomorphism) and reduction to characteristic  $p$ ; tight closure

Cited in **2** Documents

**Full Text:** [arXiv](#)