

On the base point free theorem for klt threefolds in large characteristic

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Abstract. In this article we present a refinement of the base point free theorem for threefolds in positive characteristic. If L is a nef Cartier divisor of numerical dimension at least one on a projective Kawamata log terminal threefold (X, Δ) over a perfect field k of characteristic $p \gg 0$ such that $L - (K_X + \Delta)$ is big and nef, then we show that the linear system $|mL|$ is base point free for all sufficiently large integers $m > 0$.

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