1011-14-149 **Jing Zhang*** (zhangj@math.missouri.edu), Department of Mathematics, University of Missouri, Columbia, MO 65211. *On threefolds without nonconstant regular functions.*

Let X be a smooth projective threefold. Remove a smooth irreducible projective surface D from X and let the open threefold $Y = X - D$. Suppose that Y satisfies $H^i(Y, \Omega^j_Y) = 0$ for all $j \geq 0$ and $i > 0$. When the D-dimension (i.e., Iitaka dimension) of X is 0 or 3, we discuss the properties of X and D. (Received August 23, 2005)