Tai Ha* (tha@tulane.edu), Ngo Viet Trung and Tran Nam Trung. Algebraic invariants of fiber products.

Let $X$ and $Y$ be affine varieties over a field $k$, and let $Z = X \times_k Y$. We shall discuss bounds for algebraic invariants of $Z$ in terms of those of $X$ and $Y$. Our focus will be on the projective dimension and the regularity of powers (ordinary and symbolic) of their defining ideals. (Received August 07, 2014)