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Tan Dang* (dangt@purdue.edu). *Cohen-Macaulay Property of Rees Algebras of Jacobian Ideals*. Preliminary report.

Let R be a standard graded regular ring and f an element in R . The Jacobian ideal of f is defined as the ideal generated by the partial derivatives of f in the ring $R/(f)$. In general, the Rees Algebra of an ideal I is defined as $\bigoplus_{n=0}^{\infty} I^n$. In this talk, I will discuss some preliminary results on the conditions for the Rees Algebra of Jacobian ideals to be Cohen-Macaulay in some cases. (Received January 25, 2019)