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Kei-ichi Watanabe* (watanabe@math.chs.nihon-u.ac.jp). *Segre Products in Positive Characteristic.*

This is a joint work in progress with Anurag Singh.

Let $R = \bigoplus_{n \geq 0} R_n$ and $S = \bigoplus_{n \geq 0} S_n$ be graded rings. In this talk, we always assume that $k = R_0 = S_0$ is a field, R, S are Noetherian and normal with dimension ≥ 2 . Then

$$[R \# S = \bigoplus_{n \geq 0} R_n \otimes S_n]$$

is called the Segre product of R and S .

In this talk, we assume k has positive characteristic and discuss about F-rationality, property FFRT (finite F-representation type) and F-regularity of $R \# S$.

In particular, we discuss procedure to make examples of normal FFRT which is not Cohen-Macaulay. (Received January 26, 2019)