1090-13-272 **Jim Coykendall*** (`jim.coykendall@gmail.com`), Department of Mathematics, North Dakota State University, Fargo, ND 58108-6050, and **Tridib Dutta**. *Some near-Noetherian conditions.*

In this talk, we will be considering a couple of properties that mimic the Noetherian property. Let $I \subseteq R$ be an ideal of a ring (commutative with identity). We say that I is of strong finite type (SFT) if there is a finitely generated ideal $B \subseteq I$ and a fixed positive integer N such that $x^N \in B$ for all $x \in I$. Additionally, we say that the ring R is SFT if every (prime) ideal of R has the SFT property. This property first surfaced in the 1973 work of J. Arnold on power series rings. In this context, it was shown that if R is not SFT, then $\dim R[[x]] = \infty$.

In a similar vein, we say that the ideal $I \subseteq R$ is of very strong finite type (VSFT) if there is a finitely generated ideal $B \subseteq I$ and a fixed positive integer N such that $I^N \subseteq B$, and we say that R is VSFT if every (prime) ideal is VSFT.

We investigate the interplay of these properties and their relationship to the Noetherianess that they emulate. (Received March 03, 2013)