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Sooraj Kuttykrishnan* (sooraj@math.wustl.edu). *Stably Tame Polynomial Automorphisms.*

Let R be a domain and $F \in \text{Aut}_R R[X_1, \dots, X_n]$, $n > 1$. A longstanding open question asks whether F is stably tame. i.e Does there exists $m \geq 0$ and new variables X_{n+1}, \dots, X_{n+m} such that the extended map $(F, X_{n+1}, \dots, X_{n+m})$ is tame? We will present some history of this problem and some results in the affirmative when $n = 2$. (Received June 04, 2007)