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Developments on the persistence problem. Preliminary report.

Let I be a squarefree monomial ideal in $R = k[x_1, \dots, x_n]$. One version of the persistence problem asks: If a prime $P \in \text{Ass}(R/I^s)$, under what conditions is $P \in \text{Ass}(R/I^{s+r})$ for all $r \geq 0$? We will survey progress on this question from the last few years. Work in which I have been involved is joint with Tàì Hà and Adam Van Tuyl. (Received February 02, 2014)