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Louiza Fouli, Andrew Kustin and Adela Vraciu* (vraciu@math.sc.edu). *Regular sequences in polynomial rings*. Preliminary report.

In 2009, Conca, Krattenthaler and J. Watanabe conjectured that $x^a + y^a + z^a$, $x^b + y^b + z^b$, and $x^c + y^c + z^c$ form a regular sequence in the polynomial ring in three variables over a field of characteristic zero if and only if the product of the exponents is divisible by 6. We report on some recent progress on this and other related questions. (Received February 07, 2014)