

1067-12-1324

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Saratoga Springs, NY 12866. *Twin Irreducible Polynomials over  $\mathbf{F}_2$  - Conjectures*. Preliminary  
report.

Two irreducible polynomials over  $\mathbf{F}_2$  are called *twins* provided they differ only in their linear and quadratic coefficients. The aim of this research is to prove that there are infinitely many twin irreducible polynomials over  $\mathbf{F}_2$ . Though no proof has yet been achieved, we outline here several promising conjectures toward this end. (Received September 20, 2010)