1067-12-1319 Cooper Boniece* (bboniece@skidmore.edu), Skidmore College, Saratoga Springs, NY 12866, and Gove Effinger (effinger@skidmore.edu), Department of Math \& CS, Skidmore College, Saratoga Springs, NY 12866. Twin Irreducible Polynomials over $\mathbf{F}_{2}$ - Background. Preliminary report.
Two monic irreducible polynomials over $\mathbf{F}_{q}$ with $q>2$ are called twins provided they differ only in their constant coefficient. It has been proven that for all $q>2$ there exist infinitely many twin irreducible pairs over $\mathbf{F}_{q}$. Over $\mathbf{F}_{2}$, however, twins must defined as differing only in their linear and quadratic coefficients (since their constant coefficients must be 1), and so the techniques used to establish the above results for $q>2$ do not work. We discuss the background of this distinct and seemingly difficult case. (Received September 20, 2010)

