

Entangled polynomials and quasi-cyclic codes, preliminary report

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The recently introduced entangled polynomials provide a systematic way to create quasi-cyclic codes in a manner similar to that in which polynomials aid in the construction of cyclic codes. Quasi-cyclic codes can be created as left, right, or two-sided ideals of a ring of entangled polynomials. For that reason, and for their intrinsic interest, we are intrigued by the structure of the ideals of such rings; our presentation is about the initial steps in that process.

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