

ALGEBRA
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Codes from Fiber Products of Curves

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Abstract: Error correcting codes are used to store information efficiently while still allowing for recovery in the case of partial loss. Recently work has begun to construct codes using the algebraic geometric properties of curves over finite fields. In this talk, we'll introduce the general construction of codes from fiber products curves and provide a few explicit examples of locally recoverable codes created using these methods. This collaborative work started at the inaugural Rethinking Number Theory workshop in October 2020.

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