
AIDAN W. MURPHY, Virginia Tech, VA

Codes from curves and repair

Classical codes with minimum distance $d \geq 3$ provide structures which support both erasure recovery and error correction. In modern settings, such as in distributed storage, it is useful to be able to accomplish these tasks with fewer symbols than classical codes necessitate. In this talk, we consider constructions of such codes using polynomials and curves over finite fields. This is joint work with Gretchen Matthews.