

First Joint Meeting Brazil Italy of Mathematics  
Special Session: Algebraic Geometry over Finite Fields  
and its Applications to Coding Theory

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**Title:** Slices of Fermat Surfaces over Finite Fields.

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**Abstract:** In this talk, we consider curves arising from plane sections of Fermat surfaces of degree  $d$ , over the finite field of  $q=2d+1$  elements. We will show that, in some sense, all such curves attain the Stohr-Voloch bound.