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J. Felipe Voloch*, Dept. of Math., Univ. of Texas at Austin, Austin, TX 78712. *Towards Lang-Trotter for Elliptic Curves over Function Fields.*

We report on work in collaboration with Chris Hall, on the function field analogue of the Lang-Trotter conjecture. For an elliptic curve over a function field and a subgroup of the Mordell-Weil group of the curve of rank at least six, we prove that the reduction of the subgroup modulo a place v covers the group of points of the curve modulo v for a positive proportion of v 's. (Received September 02, 2005)