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Henri Darmon* (darmon@math.mcgill.ca), McGill University Mathematics Department, 805 Sherbrooke Street West, Montreal, QC H3A-2K6, Canada. *Ranks of elliptic curves over towers of Kummer extensions*. Preliminary report.

I will discuss the growth of the rank of Mordell-Weil groups of elliptic curves over fields obtained by adjoining to the rationals a primitive p^n th root of 1 and of another element, q . This is a report on work in progress with Ye Tian. (Received January 29, 2006)