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On a generalization of Artin's conjecture

For a given non-zero integer a other than 1, -1 , or a perfect square, Artin's primitive root conjecture is about the density of primes p for which a is a primitive root of $(\mathbb{Z}/p\mathbb{Z})^*$. Li and Pomerance formulated and proved an analogue of this conjecture to composite moduli. In this talk, we will prove a Carlitz module analogue of Li and Pomerance's results.

This is a joint work with E. Eisenstein, A. Felix, L. Jain, X. Li, and Y.-R. Liu.