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Azita Mayeli* (amayeli@gc.cuny.edu). *Wavelet Sets in Vector Spaces over Cyclic Groups of Prime Order.*

Let q be an odd prime and \mathbb{F}_q^d , $d \geq 1$, be the vector space over the cyclic space of prime order, \mathbb{F}_q . In this talk we shall introduce tight wavelet sets in \mathbb{F}_q^d and characterize them in terms of multiplicative and translation tilings. Then we shall use a number theoretic approach to provide a constructive method for obtaining such sets when $d \geq 2$ and $q \equiv 3 \pmod{4}$. (Received September 20, 2016)