Diophantine approximation in p-adic solenoids

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The theorems of Diophantine approximation and metric number theory (those of Dirichlet, Khinchin, Duffin and Schaeffer, etc.) are well-known results when considered over $\mathbb{R}$, and have been considered and proven in other spaces (e.g. $\mathbb{R}^d$, $\mathbb{Q}_p$, number fields) in different formulations by various authors.

In this talk I will discuss analogues of these results in p-adic solenoids.