

Loops over nearfields

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$(N, +, \circ)$ is a *nearfield* if $(N, +)$ is an abelian group with identity 0, $(N \setminus \{0\}, \circ)$ is a multiplicative group with identity 1 not equal to 0, and there is only one distributive law. In this talk, I will define matrix loops over nearfields and consider some of their properties.