

Classification of symmetric non-degenerate bilinear forms on finite Abelian groups

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During this talk we will classify the non-degenerate symmetric bilinear forms on finite Abelian p -groups. For this we will first explain the terminology and then prove the result in the case of a finite dimensional vector space over $\mathbb{F}_p$. We will explain how one reduces the case of a finite Abelian p -group to the case of an $\mathbb{F}_p$ vector space, and state the results for $p \neq 2$.