

THE SINE FUNCTIONAL EQUATION ON 2-DIVISIBLE GROUPS

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Abstract. We solve the functional equation $f : G \rightarrow K$, $f(xy)f(xy^{-1}) = f^2(x) - f^2(y)$ in the case of a group G divisible by 2 and of a field K with $\text{char } K \neq 2$.

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Key words. Functional equation, 2-divisible group.

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