SHIFTED MOMENT PROBLEM FOR GAUSSIAN MEASURES IN SOME ORLICZ SPACES

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Abstract: Suppose that two Gaussian measures $\mu_1$ and $\mu_2$ on Orlicz space $(L_M(T, F, m), || \cdot ||_M)$ fulfill the condition

$$\int ||x + y||^q_M (\mu_1 - \mu_2)(dy) = 0$$

for each $x$ from $L_M$.

It is proved that, under some assumptions on modular $M$, measure $m$ and $q$, condition (*) implies $\mu_1 = \mu_2$.

2000 AMS Mathematics Subject Classification: Primary: -; Secondary: -;

Key words and phrases: -

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