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SHIFTED MOMENT PROBLEM FOR GAUSSIAN MEASURES IN SOME ORLICZ SPACES

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Abstract: Suppose that two Gaussian measures μ_1 and μ_2 on Orlicz space $(L_M(T,F,m),||\ ||_M)$ fulfill the condition

$$\int ||x+y||_M^q(\mu_1-\mu_2)(dy)=0 \qquad (*)$$

for each x from L_M.

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

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