

Fischer, R. H.; Gürkanli, A. T.; Liu, T. S.**On a family of Wiener type spaces.** (English) Zbl 0843.43002

Int. J. Math. Math. Sci. 19, No. 1, 57-66 (1996).

The authors study Wiener type spaces $W(A_{w,\omega}^{p,q}, L_{\nu}^r(G))$ where G is a locally compact abelian group (non-compact, non-discrete). For example, they show the following theorem: Let U_1 and U_2 be the weight functions in the construction of the Wiener type spaces $W(A_{w_1\omega_1}^{p,q}(G), L_{\nu_1}^{r_1}(G))$ and $W(A_{w_2\omega_2}^{p,q}(G), L_{\nu_2}^{r_2}(G))$, respectively. Also assume that w_1, w_2, ν_1, ν_2 are weights on G ; ω_1, ω_2 are weights on \widehat{G} and $1 \leq p, q, r_1, r_2 < \infty$. Let $U_1 \sim U_2$, $w_1 < w_2$ and $\omega_1 < \omega_2$. Then $W(A_{w_2\omega_2}^{p,q}(G), L_{\nu_2}^r(G)) \hookrightarrow W(A_{w_1\omega_1}^{p,q}(G), L_{\nu_1}^r(G))$ if and only if $\nu_1 < \nu_2$.

Reviewer: T.Nakazi (Sapporo)

MSC:43A15 L^p -spaces and other function spaces on groups, semigroups, etc.Cited in 2 Documents**Keywords:**weighted L^p -spaces; Beurling algebra; BF-space; Wiener type spaces; locally compact abelian group; weight functions**Full Text:** [DOI](#) [EuDML](#)