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Multipliers and the Relative Completion in L_w^p(G)

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<u>Abstract:</u> Quek and Yap defined a relative completion \tilde{A} for a linear subspace A of $L^p(G)$, 1 \leq p < \infty ; and proved that there is an isometric isomorphism, between $\operatorname{Hom}_{L^1(G)}(L^1(G), A)$ and \tilde{A} , where $\operatorname{Hom}_{L^1(G)}(L^1(G), A)$ is the space of the module homomorphisms (or multipliers) from $L^1(G)$ to A. In the present, we defined a relative completion \tilde{A} for a linear subspace A of $L_w^p(G)$, where w is a Beurling's weighted function and $L_w^p(G)$ is the weighted $L^p(G)$ space, ([14]). Also, we proved that there is an algeabric isomorphism and homeomorphism, between $\operatorname{Hom}_{L_w^n(G)}(L_w^n(G), A)$ and \tilde{A} . At the end of this weak we prove applies and exemples.

work we gave some applications and examples.

<u>Key Words:</u> Module homomorphism (or multiplier), relative completion, essential module, weighted L^p(G) space. 1991 AMS subject classification codes 43

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