

– L^p spaces on the dual of a locally compact group as spaces of distributions

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Abstract - After some reminders on the theory of distributions on arbitrary locally compact groups, we show that the L^p spaces on the dual of a locally compact group G defined by interpolation in a special way considered by M. Caspers via which he obtained the most aesthetically pleasing definition of the Fourier transform on a locally compact quantum group coincide with the spaces naïvely obtained by interpolating the Fourier algebra $A(G)$ and its dual $A'(G)$ when both are viewed as spaces of distributions.