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Gestur Olafsson* (olafsson@math.lsu.edu), Department of Mathematics, Louisiana State University, Baton Rouge, LA 70803, and **Jens Christensen**. *Function spaces and representations*.

We present an abstract framework for construction of Banach spaces of distributions from group representations. Spaces that can be described by this technique include the whole Banach-scale of Bergman spaces and Besov spaces on the light cone. We show that atomic decompositions can be constructed through sampling. (Received September 20, 2009)