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**Gestur Olafsson\***, Louisiana State University, Baton Rouge, LA 70803, and **Jens G Christensen**. *Bergman spaces as coorbits*.

We recall the main ideas behind the construction of function spaces using topological groups and representation theory, the coorbit theory. As an example we discuss in details the Bergman spaces on the unit disc and the unit ball in  $n$ -dimensional complex space (joint project with Christensen and Grochenig). To simplify the exposition we mainly concentrate on our work with Christensen on the unit disc. (Received August 27, 2013)