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Jens Gerlach Christensen* (jens.g.christensen@gmail.com), 4066 Burbank Drive, Apt. 6, Baton Rouge, LA 70808, and **Gestur Olafsson**. *Coorbit spaces and discretizations*. Preliminary report.

In the 1980's H.G. Feichtinger and K.H. Grochenig developed the theory of coorbit spaces and discretization of these Banach spaces. Recently the speaker together with G. Olafsson developed an abstract framework which allows a more general construction of coorbit spaces. This construction includes several natural Banach spaces which were not included in the original construction. We will give a short account of this theory, and then describe work in progress to further get a discrete characterization of these spaces. (Received February 04, 2008)