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**Jerzy Szulga\*** (szulgje@auburn.edu), Department of Mathematics and Statistics, Auburn, AL 36849. *Baby Fock spaces - commutative and noncommutative Rademacher systems*. Preliminary report.

Paul-Andre Meyer studied in 1990s the “baby Fock space”, i.e., the space of operators on the algebra spanned by Rademacher random variables, with applications to noncommutative probability, or “quantum stochastic calculus”, and further to the actual Fock spaces (essentially, algebras spanned by Brownian motion). The operators themselves form a noncommutative multiplicative system, similar in structure to the underlying Rademacher chaos but with different properties, as expected. In fact, they make an example of a “quantum probabilistic chaos”, whose theory and formalism will be presented in the talk. (Received February 03, 2015)