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Marius Junge and **Bogdan T Udreă*** (bogdanteodor-udrea@uiowa.edu), 14 MacLean Hall, Iowa City, IA 52242-1419. *Generalized q -gaussian von Neumann algebras with coefficients and their structural properties.*

For every sequence of symmetric independent copies (π_j, B, A, D) , every subset $1 \in S = S^* \subset A$ and every separable Hilbert space H we define the associated generalized q -gaussian von Neumann algebra $\Gamma_q(B, S \otimes H)$ with coefficients in B . We then prove that under suitable technical assumptions the von Neumann algebra $M = \Gamma_q(B, S \otimes H)$ is strongly solid over B , i.e. for every von Neumann subalgebra $\mathcal{A} \subset M$ which is amenable over B , either a corner of \mathcal{A} embeds into B inside M in the sense of Popa, or the von Neumann algebra generated by the normalizer of \mathcal{A} in M is amenable relative to B inside M . Time permitting, we will also talk about other structural properties of these algebras, such as solidity, embedability into R^ω and absence of non-trivial central sequences. This is joint work with Marius Junge (University of Illinois at Urbana-Champaign). (Received August 22, 2015)