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Aurel I Stan*, 1465 Mount Vernon Avenue, Marion, OH , and **Florin Catrina**. *A Hölder inequality for norms of Gamma Wick products.*

The Wick product is a natural product defined on the unital algebra generated by a random variable having finite moments of all orders. Its definition uses the L^2 -orthogonal structure given by the orthogonal monic polynomials, and can be used to derive inequalities about the L^2 -norms of the Wick products. However, to obtain inequalities about the L^p -norms of the Wick products, with $p \neq 2$, an integral representation of the Wick product is needed. We present first an integral representation of the Wick product generated by a Gamma distributed random variable, with mean greater than $1/2$. We use this integral representation to prove a Hölder inequality for norms of Gamma Wick products. (Received August 24, 2017)