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Aurel Iulian Stan* (stan.7@osu.edu), 1465 Mount Vernon Avenue, Marion, OH 43302. *Some inequalities for norms of Poissonian Wick Products (joint work with Alberto Lanconelli, University of Bari, Italy)*. Preliminary report.

We introduce first the Poissonian Wick Product using the Charlier orthogonal polynomials generated by the Poisson probability measure. We find then a pointwise formula for the Poissonian Wick Product. We use the pointwise formula to find inequalities about the L^1 and L^∞ norms of the Poissonian Wick Product. We use the formula, in terms of the Charlier polynomials, to find inequalities about the L^2 norms of the Poissonian Wick Product. Finally, we use Stein Analytic Interpolation Theorem to find inequalities about the L^p norms of the Poissonian Wick Product, for p other than 1, 2, and ∞ . (Received September 04, 2012)