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Clark Musselman* (clark@simons-rock.edu), 84 Alford Rd, Gt Barrington, MA 01230, and
Jeffrey Schenker. *Higher Moments for a Markov-Schrödinger Wave Equation on a Lattice.*

We consider the long time evolution of solutions ψ_t to a Markov-Schrödinger wave equation on a lattice. Specifically, we focus on the computation of moments of the position variable with respect to the probability density function $\mathbb{E}(|\psi_t|^2)$ on \mathbb{Z}^d . We show that the diffusive scaling of moments of position $|x|^p \sim t^{p/2}$ is observed. (Received September 15, 2013)