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Quantum Monte Carlo Study of the Triangular Hubbard Model CHRISTOPHER VARNEY, RICHARD SCALETTAR, University of California, Davis, MARK JARRELL, ALEXANDRU MACRIDIN, University of Cincinnati — We study the Hubbard model on a triangular lattice using Determinant Quantum Monte Carlo and the Dynamic Cluster Approximation. We compare the spin, charge and pairing response functions obtained with the two methods as a function of spatial lattice and cluster size, and also compute the one particle spectrum. We examine the possibility of charge ordering at one third filling driven by the avoidance of magnetic frustration.

Prefer Oral Session
 Prefer Poster Session

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