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Spectral weight of the Emery model within different computational schemes SIMONE CHIESA, UC Davis, JAN KUNES, University of Augsburg, WARREN PICKETT, RICHARD SCALETTAR, UC Davis — Although the single band Hubbard model captures many important aspects of the phenomenology of the high-temperature superconductors, the three-band Emery model allow the study of additional effects associated with the transfer of charge between the copper and oxygen orbitals and the strong hole repulsion at the oxygen sites. Here we present a comparison of the integrated and angle resolved spectral weight using exact diagonalization, dynamical mean field theory (with a quantum Monte Carlo solver and MaxEnt), and determinantal quantum Monte Carlo in the hole doped regime.

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