Density Matrix Renormalization Group Study of a Dynamic Hubbard Model, a Comparative Study FATIH DOGAN, University of Alberta, Edmonton, AB, Canada, FRANK MARISGLIO, University of Alberta — A one-dimensional model of holes locally coupled to pseudo spin degrees of freedom is studied using density matrix renormalization group. The model used in this talk is one in the family of dynamic Hubbard models. We look at density-density correlations, and frequency dependent functions to see existence and nature of the attraction of the holes in a electron-hole asymmetric system.

Fatih Dogan
University of Alberta, Edmonton, AB, Canada

Date submitted: 21 Nov 2008   Electronic form version 1.4