Exact	ground-state	behavior of	of a	four-atom	generalized	Hubbard	model
LAGOL	ground state	DCITA VIOL	oi u	iodi atom	gonoranzoa	riabbara	model

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The exact ground state of a four-atom system described by the generalized form of the Hubbard Hamiltonian is obtained. Next, the solution is used to extract relevant physical information on the dynamics of the cluster states and also to check on the applicability and validity of approximations commonly invoked in the treatment of Hubbard-type models. © 1981 The American Physical Society.