

Accepted Manuscript

Hubbard pair cluster in the external fields. Studies of the magnetic properties

T. Balcerzak, K. Szałowski

PII: S0378-4371(18)30093-1
DOI: <https://doi.org/10.1016/j.physa.2018.02.017>
Reference: PHYSA 19137

To appear in: *Physica A*

Received date: 2 October 2017
Revised date: 20 January 2018

Please cite this article as: T. Balcerzak, K. Szałowski, Hubbard pair cluster in the external fields. Studies of the magnetic properties, *Physica A* (2018), <https://doi.org/10.1016/j.physa.2018.02.017>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



- * Hubbard model for dimer (pair cluster) is discussed at finite temperatures.
- * Exact diagonalization method is applied within grand canonical ensemble.
- * Finite temperature magnetic properties are studied in external electric and magnetic field.
- * Magnetization, correlation functions as well as magnetic phase diagram are studied.
- * Anomalous behaviour of magnetization vs. temperature near the critical magnetic field is shown.
- * Magnetization switching by the external fields is demonstrated.

Download English Version:

<https://daneshyari.com/en/article/7375636>

Download Persian Version:

<https://daneshyari.com/article/7375636>

[Daneshyari.com](https://daneshyari.com)