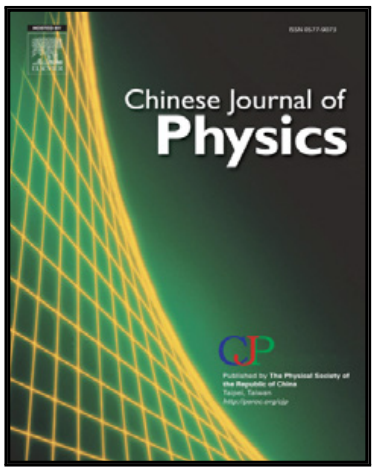
Accepted Manuscript



Heat capacity and entropy of two electrons quantum dot in a magnetic field with parabolic interaction

M.M.Al Shorman , F.S. Nammas , Huda Haddad , A.A. Shukri

PII: S0577-9073(17)31253-4
DOI: 10.1016/j.cjph.2018.04.012
Reference: CJPH 508

To appear in: *Chinese Journal of Physics*

Received date: 30 September 2017
Revised date: 20 March 2018
Accepted date: 4 April 2018

Please cite this article as: M.M.Al Shorman , F.S. Nammas , Huda Haddad , A.A. Shukri , Heat capacity and entropy of two electrons quantum dot in a magnetic field with parabolic interaction, *Chinese Journal of Physics* (2018), doi: 10.1016/j.cjph.2018.04.012

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.

ACCEPTED MANUSCRIPT

Highlights

- The thermodynamic properties of $2e$ in $2D$ parabolic GaAs quantum dot are studied.
- The thermodynamic properties as a function of $\boldsymbol{T}$ and $\boldsymbol{B}$ are discussed.
- Heat capacity and entropy of the system depends on confining frequency.

ACCEPTED MANUSCRIPT

*Corresponding author: M. M. Al Shorman
E-mail address: mohammad.alshorman@ttu.edu.jo

Download English Version:

https://daneshyari.com/en/article/8145130

Download Persian Version:

https://daneshyari.com/article/8145130

Daneshyari.com