

RICE UNIVERSITY

Observation of antiferromagnetic correlations in the Fermi-Hubbard
model

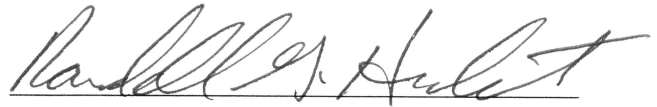
by

Pedro M Duarte

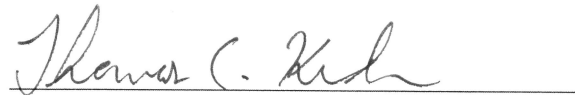
A THESIS SUBMITTED
IN PARTIAL FULFILLMENT OF THE
REQUIREMENTS FOR THE DEGREE

Doctor of Philosophy

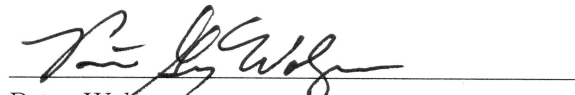
APPROVED, THESIS COMMITTEE:

A handwritten signature in dark ink, appearing to read "Randall G. Hulet", written over a horizontal line.

Randall G. Hulet, *Chair*
Fayez Sarofim Professor of Physics and
Astronomy

A handwritten signature in dark ink, appearing to read "Thomas C. Killian", written over a horizontal line.

Thomas. C. Killian
Professor of Physics and Astronomy

A handwritten signature in dark ink, appearing to read "Peter Wolynes", written over a horizontal line.

Peter Wolynes
Bullard-Welch Foundation Professor of Science
Professor of Chemistry and
Materials Science & NanoEngineering
Professor of Physics and Astronomy

HOUSTON, TEXAS
OCTOBER 2014

Rec'd. 9/17/14

APPROVAL OF CANDIDACY FOR THE DOCTORAL DEGREE

Date: November 1, 2011

Approved: PS/ada

The candidacy of **Pedro Duarte**, (ID # **S01108951**) Department of **Physics and Astronomy**, for the **Doctor of Philosophy** degree, is hereby approved. A timeline for defense of theses is located in the General Announcements.

The Thesis Committee hereby appointed is:

- a) Randall G. Hulet (Chair)
- b) Thomas C. Killian
- c) Peter ~~B.~~ Wolynes

The student's responsibilities relating to the oral defense are to:

- (1) Schedule the examination. You must be registered the semester you defend.
- (2) See General Announcements for requirements concerning the announcement of date, time, and place of the oral examination.
- (3) Provide the Graduate Office with a signed copy of this form within one week after the oral examination. Students who pass the oral examination in defense of thesis **on or before Friday of the first week of classes of any semester** do not have to register for that or any subsequent semester even though minor revisions to the final copy may be continuing. Exemption from registration is dependent upon receipt of this properly signed form in the office of Graduate Studies.
- (4) You have six (6) months after the successful completion of your defense to submit your thesis to the office of Graduate Studies.

Additional responsibilities of the candidate are outlined in the thesis instructions and in the Rice General Announcements.

Will you continue to register the semester after your defense?

☐

yes

☒

no

I certify that all of the information listed on this form is correct.

Observation of antiferromagnetic correlations in the Fermi-Hubbard model. (student signature)

Thesis Title (PLEASE TYPE or PRINT LEGIBLY):

REPORT OF THE THESIS COMMITTEE:

The date of the oral defense of thesis was 10/1/14

The committee hereby certifies that the candidate passed.

(a) Randall G. Hulet

(d) _____

(b) T. C. Killian

(e) _____

(c) Peter B. Wolynes

(f) _____

Remarks:

GRADUATE OFFICE RECORD

Thesis Accepted: _____

Dean of Graduate and Postdoctoral Studies

Date: _____

GPS
Scanned