

Sandro Sorella (1960-2022)

1985-1989 PhD@SISSA – Supervisors: S. Baroni, R. Car, M. Parrinello, E.Tosatti

1990-1991 Postdoc@ETHZ – T. M. Rice group

1992-1998 Researcher @ SISSA

1998-2005 Associate Professor @ SISSA

2005-2022 Full Professor @ SISSA



Sandro memorial by his students/collaborators

Lattice Models

→ Matteo Calandra (PhD 1999)

QMC on real systems

Michele Casula (PhD 2005)

Algorithms and codes

Kosuke Nakano (Postdoc 2018-2019)

QMC & Machine learning

Giuseppe Carleo (Phd 2011)

Frustrated spin sistems

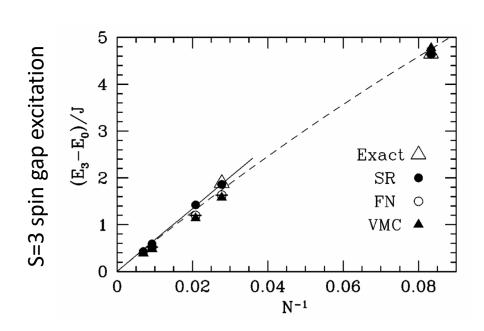
VOLUME 82, NUMBER 19

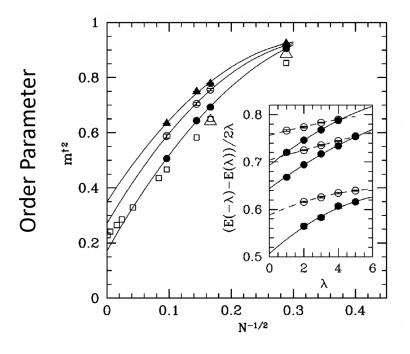
PHYSICAL REVIEW LETTERS

10 May 1999

Long-Range Néel Order in the Triangular Heisenberg Model

Luca Capriotti, ¹ Adolfo E. Trumper, ^{1,2} and Sandro Sorella ¹





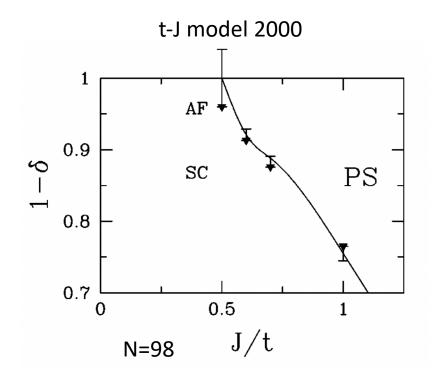
N=number of sites.

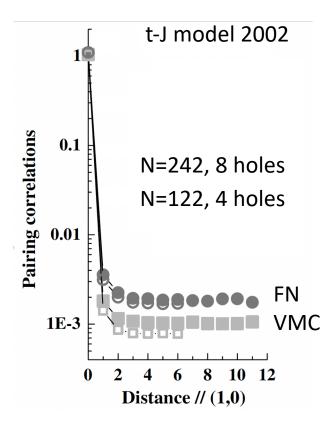
338 citations.

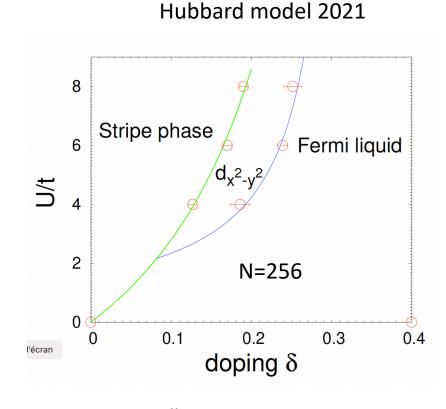
Superconductivity in t-J/Hubbard models

« You know, I was born with a problem: Superconductivity and phase separation in Hubbard/t-J models »









M. C. & S. Sorella, PRB 61, R11894 (2000) M.C., F. Becca and S.Sorella, PRL 81, 5185 (1998)

S. Sorella et al. PRL 88, 117002 (2002)

S. Sorella, arXiv:2101.07045

A sign of the ethernal quest for improving QMC accuracy by Sandro!

Sandro's group as of October 1999



^{*} M. Capone not formally a student of S.S., but office mate, often present in group discussions

Was that a lucky year? Where are other "Super Sandro" students?

Sandro's legacy: 3 generations of scientists





Sandro was a mentor for at least 27 Phd's and postdocs (from 1998 up to now).

At least 17 among them are Professors, permanent researchers, or have important positions in companies.

Those who have no permanent positions are too young to have one.

He was also an inspiration for many colleagues and coworkers (too many to mention).