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SPECIAL ISSUE

PROCEEDINGS OF THE THIRD INTERNATIONAL CONFERENCE ON
STRIPES AND HIGH T_c SUPERCONDUCTIVITY (STRIPES 2000)

Edited by N. L. Saini and A. Bianconi

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University of Rome "La Sapienza"
September 25 - 30, 2000

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Preface

The third international conference on Stripes and High T_c superconductivity, STRIPES2000 was held from September 25 to 30, 2000 at the University of Rome "La Sapienza". The first conferences on striped phases in high T_c superconductors was held during December 1996 in Rome, three years after the discovery of 'superstripes' by the Rome group at "La Sapienza". The focus of the first conference was on lattice instabilities and stripes in the high T_c superconductors. In the same series, the second conference was held during June 1998 in Rome with main debate on the charge segregation into stripes formed by doping in an antiferromagnetic lattice. The programme of the third conference was concentrated on stripes and high T_c superconductivity and there were several contributions presented on various aspects of charge stripes fluctuating in time and space and their importance on the fundamentals of the high T_c superconductors.

This special issue of International Journal of Modern Physics B contains a collection of papers in the field of stripes and high T_c superconductivity. The most relevant experimental and theoretical contributions, presented at the STRIPES2000, are selected on the basis of thorough review by experts in the field. Apart from the contributions in stripes in the cuprates, this issue also contains a few contributions on other striped phase materials such as manganites, nickelates and related perovskites. Because of large growth of research activities in the field of striped phases, this special issue should serve as an important reference.

We want to acknowledge Tullia Baldassarri Höger von Högersthal, Anna De Grossi, Bruno Pellizoni, Marta Izzo, and Patrizia De Grossi for help in the editing of this special issue. A special thank to all the referees for their rapid and careful work. Finally we wish to thank to our main sponsors; the Università di Roma, "La Sapienza", "Istituto Nazionale di Fisica della Materia" (INFM), and Gruppo Nazionale di Struttura della Materia of Consiglio Nazionale delle Ricerche" (CNR).

Naurang L. Saini and Antonio Bianconi

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