Foreword

This special issue of the Brazilian Journal of Physics collects the short courses and the seminars presented at the international meeting "Infrared QCD in Rio: propagators, condensates and topological effects". The event, held in Rio de Janeiro from the 5^{th} to the 9^{th} of June 2006 at UERJ, gathered researchers from twelve countries to discuss the present status and future perspectives of non-perturbative studies of QCD. The meeting brought together leading experts as well as young researchers, in a pleasant and productive atmosphere.

The two main approaches to the study of confinement in QCD — i.e. the Gribov-Zwanziger and the dual superconductivity scenarios — were addressed using several techniques, such as Dyson-Schwinger equations and lattice simulations. The program included three short courses (in the morning), four afternoons of seminars, a poster session and a panel discussion at the end of the event.

We would like to thank all the authors and the referees who contributed to this volume. We are most grateful to Prof. Silvio Salinas for the opportunity of publishing these proceedings in the Brazilian Journal of Physics. We acknowledge the editorial help of Profs. Gastão Krein and Takeshi Kodama, the financial support of the agencies CAPES, FAPESP, FAPERJ, CNPq and of the State University of Rio de Janeiro (UERJ).

Rio de Janeiro, December 12, 2006

Silvio Paolo Sorella Attilio Cucchieri Tereza Mendes Guest Editors