

PREFACE

This is the second volume of the “Kinki University Series on Quantum Computing”. It contains lecture notes presented at the symposium on *Molecular Realizations of Quantum Computing 2007*, held from October 31st to November 2nd, 2007 at Yutorito Hall, Higashi-Osaka, Japan.

The main purpose of this symposium has been presenting the state of the art for quantum computing; particularly the technology related to molecular spin systems. For this symposium, we aimed at guiding the researchers and students for working toward a feasible realization of a quantum computer. Invited speakers to the symposium were asked to prepare their lecture notes in a self-contained manner and therefore we expect that each contribution will be useful for students and researchers even with less background to the topic.

Editors of this volume have carefully read and examined the lecture notes. The lecture notes being written by physicists and chemists, however, some style differences naturally inhere in them, which have been left unchanged by editors to respect each lecturer’s writing style.

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We yearn for continued outstanding success in this field and wish to expand conferences, workshops and summer schools further in the field of quantum computing based at Kinki University.

Finally, we would like to thank Ms Zhang Ji of World Scientific for her excellent editorial work.

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Mikio Nakahara
Yukihiro Ota
Robabeh Rahimi
Yasushi Kondo
Masato Tada