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SCHRIEPPER
In Celebration of His 70th Birthday

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_____ of _____*

**J. ROBERT
— SCHRIEFFER**

In Celebration of His 70th Birthday

Editors

N. E. Bonesteel

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In Celebration of his 70th Birthday**

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PREFACE

In October of 2001 a Symposium was held in Santa Fe, New Mexico in celebration of Bob Schrieffer's 70th birthday. All who were lucky enough to attend enjoyed a wonderful day of seminars on a wide range of topics — from high- T_c superconductivity to quark pairing in high-density QCD — all of which have felt the influence of Bob's ideas. It was particularly nice that day to see so many of Bob's former students and postdocs gathered to honor someone that they viewed as both a mentor and a friend.

At the time of this Symposium, it was decided at the National High Magnetic Field Laboratory to publish a collection of some of Bob's papers. The result is the present volume.

In preparing this volume, we asked a number of Bob's friends and colleagues to write introductory essays to put his work in a broader context. Not surprisingly, everyone we contacted readily agreed, and we are extremely grateful to Sasha Alexandrov, Jim Davenport, Ted Einstein, Steve Kivelson, Doug Scalapino, Frank Wilczek and John Wilkins for their enthusiastic efforts. As we did not want to interfere with this friendly exchange, we reprint their contributions here, essentially unchanged. Each of these essays reflects the personality of its author and, collected together, they bring about an impressive picture of the great impact on modern physics of Bob's scientific achievements.

Throughout his scientific career, Bob has striven to reduce problems to their essence — always emphasizing physical thinking over formalism. That is why it is helpful so often to turn back to the original publications in order to better understand the physical ideas, rather than reading about them in digested form in textbooks. The papers collected here at least partially reflect Bob's wonderful approach to physics and we are confident that future generations of students will find this volume useful.

We are grateful to Mary Layne, Ashley Remer and Alice Hobbs, as well as the editors at World Scientific, for their invaluable assistance throughout the preparation of this volume.

Finally, and most importantly, we would like to take this opportunity to say in print what a great pleasure and privilege it has been to have Bob Schrieffer as a colleague and friend over the years.

National High Magnetic Field Laboratory, Tallahassee, Florida, September 2002

N. E. Bonesteel

L. P. Gor'kov

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