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Roberto Bruno
Vincenzo Carbone

Turbulence in the Solar Wind

 Springer

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*For Adelina and Maria Carmela, for being so
patient with us during the drafting of this
book*

Preface

Writing this tutorial review would have not been possible without a constructive and continuous interaction with our national and foreign colleagues. The many discussions we had with them and the many comments and advices we received guided us through the write-up of this work. In particular, we like to thank Bruno Bavassano and Pierluigi Veltri who initiated us into the study of space plasma turbulence many years ago. We also like to acknowledge the use of plasma and magnetic field data from Helios spacecraft to produce from scratch some of the figures shown in the present book. In particular, we would like to thank Helmut Rosenbauer and Rainer Schwenn, PIs of the plasma experiment; Fritz Neubauer, PI of the first magnetic experiment onboard Helios; and Franco Mariani and Norman Ness, PIs of the second magnetic experiment on board Helios. We thank Annick Pouquet, Helen Politano, and Vanni Antoni for the possibility to compare solar wind data with both high-resolution numerical simulations and laboratory plasmas. We owe special thanks and appreciation to Eckart Marsch and Sami Solanki who invited us to write the original Living Review version of this work and for the useful refereeing procedure. Finally, our wholehearted thanks go to Gary Zank for inviting us to transform it into a monographical volume for *Lecture Notes in Physics* series.

Roma, Italy
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