

Preface

This book is based upon lectures held on 9–13 May 2011 at the INFN-Laboratori Nazionali di Frascati Black Objects in Supergravity School BOSS2011, directed by Stefano Bellucci, with the participation of prestigious lecturers, including G. Lopes Cardoso, W. Chemissany, T. Ortin, J. Perz, O. Vaughan, D. Turton, L. Lusanna, S. Ferrara. All lectures were given at a pedagogical, introductory level, a feature which reflects itself in the specific “flavor” of this volume, which also benefited much from extensive discussions and related reworking of the various contributions.

This is the sixth volume in a series of books on the general topics of supersymmetry, supergravity, black holes and the attractor mechanism. Indeed, based on previous meetings, five volumes were already published:

BELLUCCI S. (2006). *Supersymmetric Mechanics - Vol. 1: Supersymmetry, Noncommutativity and Matrix Models.* (vol. 698, pp. 1–229). ISBN: 3-540-33313-4. BERLIN HEIDELBERG: Springer Verlag (GERMANY). Springer Lecture Notes in Physics Vol. 698.

BELLUCCI S., S. FERRARA, A. MARRANI. (2006). *Supersymmetric Mechanics - Vol. 2: The Attractor Mechanism and Space Time Singularities.* (vol. 701, pp. 1–242). ISBN13: 9783540341567. BERLIN HEIDELBERG: Springer Verlag (GERMANY). Springer Lecture Notes in Physics Vol. 701.

BELLUCCI S. (2008). *Supersymmetric Mechanics - Vol. 3: Attractors and Black Holes in Supersymmetric Gravity.* (vol. 755, pp. 1–373). ISBN-13: 9783540795223. BERLIN HEIDELBERG: Springer Verlag (GERMANY). Springer Lecture Notes in Physics Vol. 755.

BELLUCCI S. (2010). *The Attractor Mechanism.* Proceedings of the INFN-Laboratori Nazionali di Frascati School 2007. ISSN 0930-8989, ISBN 978-3-642-10735-1, e-ISBN 978-3-642-10736-8. DOI 10.1007/978-3-642-10736-8. Springer Heidelberg Dordrecht London New York. Springer Proceedings in Physics Vol. 134.

BELLUCCI S. (2013). *Supersymmetric Gravity and Black Holes.* Proceedings of the INFN-Laboratori Nazionali di Frascati School on the Attractor Mechanism 2009. ISSN 0930-8989, ISBN 978-3-642-31379-0, ISBN 978-3-642-31380-6 (eBook), DOI 10.1007/978-3-642-31380-6, Springer Heidelberg New York Dordrecht London. Springer Proceedings in Physics Vol. 142.

I wish to thank all lecturers and participants to the School for contributing to the success of the School, which prompted the realization of this volume. I wish to thank my wife Gloria and our beloved daughters Costanza, Eleonora, Annalisa, Erica and Maristella for love and inspiration, in want of which I would have never had the strength to complete this effort.

Frascati, Italy, December 2012

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