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COLLOQUIA: IFAE 2018

Preface

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The XVII edition of the IFAE meeting (Incontri di Fisica delle Alte Energie) was organized by the Milano Bicocca INFN Unit and the Physics Department of the University. It took place in the multimedia lecture hall (“Aula Luisella Sironi”) of the Milano Bicocca University. Almost 150 people attended the meeting, following presentations on particle physics topics. In the two talks of the opening session, Sergio Bertolucci (former CERN Director of Research) showed his vision about the future of particle physics and Giovanni Losurdo discussed the recent discovery of the gravitational waves and the future European project, the “Einstein Telescope”. The closing talk, by Salvatore Capozziello, was an intriguing presentation on the open problems of General Relativity.

The traditional sessions started with the Intensity Frontier session, then the Energy Frontier, the Cosmology and Astroparticles and the New Technologies ones. The meeting lasted three days and almost 70 talks were presented and 23 posters shown. Most of the speakers were PhD students, and this is the main reason for the IFAE annual meeting: to give young physicists the opportunity to show (probably for the first time) their results in a conference.

We would like to thank the members of the Local Committee who have organized this event: Simone Aioli, Chiara Brofferio, Marta Calvi, Monica Colpi, Alessio Ghezzi, Giancarlo Ghirlanda, Pietro Govoni, Sandra Malvezzi, Clara Matteuzzi, Carlo Oleari, Maura Pavan, Michele Pepe, Ezio Previtani, Tommaso Tabarelli de Fatis, Veronica Valsecchi; and special thanks to our secretary: G. Bianco. The social event took place in the room of “Museo Diocesano” in Milano, a really wonderful scenario for the dinner.

We wish to acknowledge the great work done by the conveners of the four sessions, who selected the talks and were able to meet the schedule and drive the discussion during the meeting: I. Brivio, S. Martellotti, M. Martinelli, M. Merola (Intensity Frontier), L. Dell’Asta, S. Fiorendi, R. Gerosa, S. Marzani, M. Pinamonti (Energy Frontier), M. Biassoni, E. Bissaldi, G. D’Amico, E. Di Valentino, M. Pesce-Rollins (Cosmology and Astroparticles), S. Carrazza, M. Fedi, C. Gotti, F. Pantaleo (New Technologies). We would also like to express our gratitude to the members of the Scientific Committee who gave us help and precious suggestions to smoothly conduct the meeting during the three days.

The success of a conference, in any case, relies on the quality of the presentations. We were delighted to have hosted such high-level contributions. For this reason, we thank the speakers and the participants for creating the right feeling for the discussion.

Finally, we would like to express our gratitude for the support received from INFN and the University of Milano Bicocca.