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Preface

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Young Researcher Meeting, Rome 2019

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Preface

The Young Researcher Meeting celebrated its 10th anniversary with a four-day conference held at the University of Rome "Tor Vergata" on 18th - 21st June 2019.

It was, indeed, 2009 when a group of PhD students at this same university seeded the idea of starting a series of informal meetings for young researchers to foster discussion on progress in active research fields of Physics and related disciplines. Over the last ten years, the Young Researcher Meeting has become an awaited yearly appointment and it has been hosted by several universities and research institutes. The itinerant character reflects one of the main goals of the event: promoting interdisciplinary and international collaborations among young researchers.

The program of the 10th edition was organized in sessions covering six main topics: Applied Physics, Astrophysics and Cosmology, Biophysics, Matter Physics, Particle Physics and Theoretical Physics. It included 40 plenary talks and a polyhedric poster session with 60 original contributions. The conference opening day had as exclusive setting Villa Mondragone, a beautiful XVI century villa overlooking the city of Rome. One of the highlights of the day was an engaging round table discussion on the link between Physics and Industry, during which panelists Dr D. Ricci Pacifici and Dr N. Said, both physicists pursuing a career in the private sector, together with representatives of AKKA Technologies, exchanged their views. The discussion and the interaction with the audience was moderated by Dr E. Nichelli. Two invited keynote speakers have further contributed to the program of the conference: Dr M. Lattanzi, from INFN Ferrara, who discussed the current status and challenges in cosmology, and Dr C. Attaccalite of the Centre Interdisciplinaire de Nanoscience de Marseille, who presented a lucid analysis of the story of academic publishing "from Galileo to Nature".

The consolidated format of the conference also foresees visits to the research facilities that are present in the area where the meeting is hosted. At this edition, participants had the unique opportunity to join

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a visit to the INFN-National Laboratories of Frascati, which was introduced by the talks of Dr P. Gianotti and Dr A. Balerna.

Finally, on the last day of the conference, a guided tour of ancient Rome was offered to the participants who strolled through the streets of the eternal city.

The present volume of papers contains a selection of the contributions presented at the conference as either talks or posters. They cover topics on Applied Physics, Astrophysics and Cosmology, Biophysics, Matter Physics, Particle Physics and Theoretical Physics.

Conference Webpage: http://www.iphysnet.com/wp/yrm/events/10yrm/

ACKNOWLEDGEMENTS

The organisers of the 10th Young Researcher Meeting would like to sincerely thank all the participants for their scientific contributions, the invited speakers, the panelists of the round table, and all the people who made this conference a very smooth and brilliant event.

Our gratitude goes to the staff of the Physics Department of the University of Rome “Tor Vergata”, for having encouraged and assisted the organization of the event. We furthermore thank the Department Vice-Director Prof. L. Cerrito and the “Tor Vergata” division-INFN Director Prof. A. Di Ciaccio for their

inspiring speeches at the conference. We acknowledge the use of the facilities and rooms of the Macroarea di Scienze M.F.N.

Our recognition goes to the INFN-National Laboratories of Frascati for their hospitality.

We thank the guides of the associations Eleutheria S.r.L. and Gruppo Archeologico Latino Latium Vetus, their competence, enthusiasm and kindness turned the guided tours into really special events.

Finally, we are grateful to the sponsors that have greatly supported the organization of the conference, namely: the University of Rome "Tor Vergata" (for hosting the event and for the support through the Bando per Convegni 2019/2020), the "Tor Vergata" Division of the National Institute for Nuclear Physics, the Solar Physics Group of the University of Rome "Tor Vergata", and AKKA technologies. The publication of this volume was supported by Piano Lauree Scientifiche (PLS) - Scientific Degree Project of Italian Ministry of Education, University and Research.