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8th Young Researcher Meeting

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Young Researcher Meeting, Cagliari 2017

Fabio Agostini, Claudia Antolini, Pierpaolo Cacciotto, Matteo Cadeddu, Ester Casula, Giordano Cattani, Alessandro Cultrera, Marco Di Stefano, Carlo Flore, Edgardo Franzin, Luca Giovannelli, Elisa Incani, Francesca Loi, Marina Migliaccio, Lorenzo Pagnanini, Fabrizio Piacentini, Davide Pietrobon, Emanuela Pusceddu, Valerio Sarritzu, Matteo Serra, Francesco Stellato, Matteo Tuveri



PREFACE

Held annually since 2009, the Young Researcher Meeting (iphysnet.com/wp/ym) gathers together students, post-doc fellows, and young researchers eager to discuss the current progress and developments in various areas of physics.

The dissemination of results and sharing of knowledge are indeed activities that should be valorised since the early stages of anyone's scientific career. This has long been the spirit of the conference, and it has a deep influence on its format. In fact, the Young Researcher Meeting aims to create strong bonds among the attendees and to promote collaboration and cross-fertilisation among different research areas. It does so in an informal set-up, where students and young researchers introduce their work to their peers in brief presentations and a lively poster session. Questions, discussions, and interaction come naturally and this has brought ever-increasing success to the conference, making it an unmissable appointment for young researchers.

The conference has been hosted in various locations around Italy by several major institutions throughout the years. The 8th edition was held at the Cittadella dei Musei in Cagliari, from May 29th to June 1st 2017, and it was jointly organised by the freshly established International Physicists Network association (iphysnet.com) and the Department of Physics of the University of Cagliari.

This edition rounded up over 60 participants belonging to universities and research centres in Europe, Asia, and South America. The plenary talk sessions covered areas such as Astrophysics and Cosmology, Biomedical and Particle Physics, Condensed Matter and Theoretical Physics — topics that have been deepened and widened in the more interactive and informal *poster & wine* session.

Moreover, the programme included a guided tour to the Sardinia Radio Telescope; a *lectio magistralis* by Prof. Cristiano Galbiati on dark matter and neutrinoless double beta decays; and invited talks by Dr. Carlos Mejia-Monasterio from the Technical University of Madrid, Spain, and Dr. Paolo Pani from the University of Rome “Sapienza”, who presented cutting edge research in their respective fields in an appealing and enjoyable way. During the conference, the first meeting of the International Physicists Network took place, an Italian non-profit association that aims to connect young physicists across the world and presides the organisation of the Young Researcher Meeting. This edition also featured a pleasant social dinner in a local restaurant.

This volume consists of a selection of the contributions presented at the conference as either talks or posters. These cover topics in Astrophysics and Cosmology, Biomedical and Particle Physics, Condensed Matter and Theoretical Physics.

Organising and Editorial Committee

Fabio Agostini

(fabioagostini31@gmail.com)
Akka Technologies, Rome, Italy

Claudia Antolini

(claudiaantolini@cambridgesciencecentre.com)
Cambridge Science Centre, Cambridge, UK

Pierpaolo Cacciotto

(p.cacciotto@outlook.com)

Matteo Cadeddu

(matteo.cadeddu@ca.infn.it)
Dipartimento di Fisica, Università degli Studi di Cagliari & INFN, Sezione di Cagliari, Cagliari, Italy

Ester Casula

(ester.anna.rita.casula@cern.ch)
INFN Sezione di Cagliari, Cagliari, Italy

Giordano Cattani

(giordano.cattani@gmail.com)
ASML, Eindhoven, Netherlands

Alessandro Cultrera

(a.cultrera@inrim.it)
INRiM, Turin, Italy

Marco Di Stefano

(marco.distefano@cnag.crg.eu)
Centre Nacional d'Anàlisi Genòmica
- Centre de Regulació Genòmica (CNAG-CRG), Barcelona, Spain

Carlo Flore

(carlo.flore@ca.infn.it)
Dipartimento di Fisica, Università degli
Studi di Cagliari & INFN, Sezione di
Cagliari, Cagliari, Italy

Luca Giovannelli

(luca.giovannelli@roma2.infn.it)
Università degli studi di Roma "Tor
Vergata", Rome, Italy

Francesca Loi

(floi@oa-cagliari.inaf.it)
Dipartimento di Fisica, Università degli
Studi di Cagliari & INAF-Osservatorio
Astronomico di Cagliari, Cagliari, Italy

Lorenzo Pagnanini

(lorenzo.pagnanini@gssi.infn.it)
Gran Sasso Science Institute, L'Aquila,
Italy

Davide Pietrobon

(daddeptr@gmail.com)
HERE Technologies, Berkeley, USA

Valerio Sarritzu

(valerio.sarritzu@dsf.unica.it)
Dipartimento di Fisica, Università degli
Studi di Cagliari, Cagliari, Italy

Francesco Stellato

(francesco.stellato@roma2.infn.it)
INFN Roma Tor Vergata, Rome, Italy

Edgardo Franzin

(edgardo.franzin@ca.infn.it)
Dipartimento di Fisica, Università degli
Studi di Cagliari & INFN, Sezione di
Cagliari, Cagliari, Italy

Elisa Incani

(elisa.incani@gmail.com)
INFN, Sezione di Cagliari, Cagliari, Italy

Marina Migliaccio

(migliaccio@asdc.asi.it)
ASDC – ASI Science Data Center, Rome,
Italy

Fabrizio Piacentini

(f.piacentini@inrim.it)
INRiM, Turin, Italy

Emanuela Pusceddu

(emanuela.pusceddu@gmail.com)
Cagliari, Italy

Matteo Serra

(mserra@fbk.eu)
Fondazione Bruno Kessler, Trento, Italy

Matteo Tuveri

(matteo.tuveri@ca.infn.it)
Dipartimento di Fisica, Università degli
Studi di Cagliari & INFN, Sezione di
Cagliari, Cagliari, Italy

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The event was broadcast
website, and the

live on the conference
recordings are available on



the
YRM



Youtube



Salumificio
Parteolla

channel at <http://www.youtube.com/c/YoungResearcherMeeting>.

