

## Gravitational Wave Day

9 novembre 2018 ore 15.30

Sapienza Università di Roma  
Aula Amaldi - Dip. di Fisica

Prof. Barry Barish

Premio Nobel per la Fisica 2017  
Einstein, Gravitational Waves and the Birth of a New Science

- Programma
- 15:00 Accoglienza
  - 15:30 Dimostrazioni sperimentali di fisica delle onde
  - 16:00 Public lecture del Prof. B. Barish
  - 17:00 A tu per tu con i ricercatori che hanno scoperto le onde gravitazionali

Gli interessati dovranno registrarsi obbligatoriamente

attraverso il seguente link o utilizzando il QR Code.

<https://agenda.infn.it/conferenceDisplay.py?power=True&confId=16838>



LIBRERIA TOMO  
VIA DEGLI ETRUSCHI, 4 (SAN LORENZO, ROMA)

## Incontri Gravitazionali

28 febbraio 2020 h17:00  
"La cosmologia è in crisi?" - Prof. Aniello Batbi

24 aprile 2020 h17:00  
"L'universo per chi ha poco spazio-tempo" - Prof. Sandra Savaglio

22 maggio 2020 h17:00  
"Sospesi fra due infiniti" - Prof. Gianfranco Bertone

moderazione di Matteo Serra (Fondazione Bruno Kessler)

Coordinata scientifica: Maria Pia Pedroni  
Info e prenotazioni: [assess@uniroma1.it](mailto:assess@uniroma1.it)

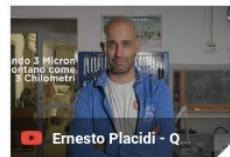
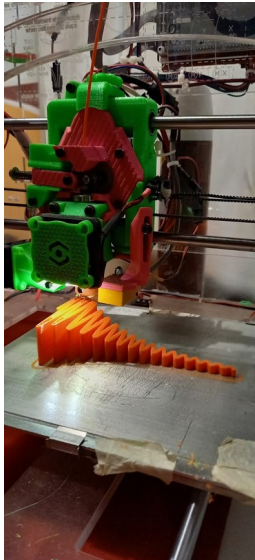
[web.uniroma1.it/gmuu/incontri-gravitazionali](http://web.uniroma1.it/gmuu/incontri-gravitazionali)



# Education & Outreach at the Amaldi Research Center

## Paolo Pani

Sapienza University of Rome & INFN Roma1



AMALDI RESEARCH CENTER - OPEN DAY  
QUANTUM TECHNOLOGIES

15.30 BENVENUTO  
DIRETTORE DEL DIPARTIMENTO DI FISICA  
PROF. PAOLO MATAFALON

16.00 VERSO LA SECONDA  
RIVOLUZIONE QUANTISTICA  
PROF. FABIO SCIARRINO

16.45 ENTANGLEMENT QUANTISTICO  
ESPERIMENTI LIVE DAL QUANTUM INFORMATION LAB

17.15 MEET THE SCIENTISTS

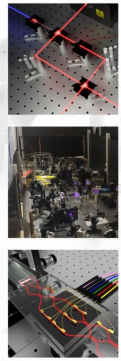
22 NOVEMBRE 2019

AULA AMALDI  
EDIFICIO MARCONI - DIPARTIMENTO DI FISICA  
SAPIENZA UNIVERSITÀ DI ROMA  
PIAZZALE ALDO MORO, 5

PRENOTARSI A:  
[HTTPS://TINYURL.COM/ARC-DAY-2019](https://tinyurl.com/arc-day-2019)



INFO: [HTTP://WWW.ROMA1.INFN.IT/AMALDI-CENTER/HOME.HTML](http://www.roma1.infn.it/amaldi-center/home.html)



# Education & Outreach are crucial in the ARC mission

ARC is devoted to organize various dissemination activities for high-school students, bachelor/master students, and the general public

More info on [https://www.phys.uniroma1.it/fisica/arc\\_dissemination](https://www.phys.uniroma1.it/fisica/arc_dissemination)

## Outreach:

- Gravitational-Wave Days 2018-2020
- ARC Open Day on Quantum Technologies – Nov 2019
- *Incontri Gravitazionali (Gravitational Encounters)* – Feb 2020
- Outreach material on GW science and astrophysics for high schools
- ARC Video Interviews
- European Researchers' Night 2020-2021



## Education:

- ARC PhD Scholarships
- ARC Prizes for the best master and PhD theses
- Visiting program
- Organization of workshops, lectures at schools, advanced courses
- ARC PhD School (Sept 2022)



# ARC Gravitational Wave Day

Every year, ARC organizes the “Gravitational-Wave Day” presenting different aspects of the ARC core science:

- 2018-2019: **Barry Barish** (Nobel Laureate 2017)
- 2021: **Alessandra Buonanno** (Galileo Galilei Medal 2021 and Dirac Medal 2021)
- Introduced by live experiments on wave physics by Giovanni Organtini
- 300+ participants



<https://www.youtube.com/watch?v=jBfhJoOzcpk>

DEPARTMENTO DI FISICA  
SAPIENZA  
UNIVERSITÀ DI ROMA

AMALDI  
RESEARCH CENTER  
<http://www.roma1.infn.it/amaldicenter>

INFN  
Istituto Nazionale di Fisica Nucleare

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RESEARCH CENTER  
[https://www.phys.uniroma1.it/fisica/arc\\_amaldi\\_research\\_center](https://www.phys.uniroma1.it/fisica/arc_amaldi_research_center)

INFN  
Istituto Nazionale di Fisica Nucleare

## Gravitational Wave Day

19 Febbraio 2021  
ore 14:00

Streaming in remota tramite Zoom



Prof. Alessandra Buonanno  
Director, Max Planck Institute for Gravitational Physics

### L'Esplorazione dell'Universo con le Onde Gravitazionali

**Programma dell'evento:**

- h14:00: Benvenuto e introduzione - Prof. Paolo Mataloni (Sapienza)
- h14:10: Assegnazione premi ARC per le tesi di laurea magistrale e di dottorato
- h15:30: Dimostrazioni sperimentali di fisica delle onde - Prof. Giovanni Organtini (Sapienza)
- h16:15: Lectio magistralis - Prof. Alessandra Buonanno (Max Planck Institute)
- h17:00: Interazione col pubblico
- h17:30: Presentazione nuovo sito ARC e video-pillole sulle tematiche di ricerca



La partecipazione richiede una registrazione utilizzando il QR code o attraverso la pagina web:

[https://www.phys.uniroma1.it/fisica/arc\\_dissemination](https://www.phys.uniroma1.it/fisica/arc_dissemination)

# ARC – Open Day on Quantum Technologies

22 November 2019, Physics Department, Amaldi Hall

- 130 participants (high-school students and teachers and university students)
- streaming available online: <https://www.youtube.com/watch?v=FrZZMBxqSFs>

**AMALDI RESEARCH CENTER - OPEN DAY**  
**QUANTUM TECHNOLOGIES**

INTRODUCTION BY HEAD OF THE PHYSICS DEPARTMENT  
PROF. PAOLO MATALONI

LIVE EXPERIMENTS FROM THE QUANTUM LAB ON QUANTUM NONLOCALITY

SEMINAR BY PROF. FABIO SCIARRINO ON QUANTUM TECHNOLOGIES

QUANTUM LAB MEET THE SCIENTISTS

INFORMAL EVENT MEET THE SCIENTIST WITH MASTER STUDENTS, PHDS, AND POSTDOCS OF THE QUANTUM LAB

**AMALDI RESEARCH CENTER - OPEN DAY**  
**QUANTUM TECHNOLOGIES**

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16.00 **VERSO LA SECONDA RIVOLUZIONE QUANTISTICA**  
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GRAPHICS BY HUNNY DORY



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Consulenza scientifica: Paolo Pani (Sapienza)  
Info e prenotazioni: [alessandra.curto@uniroma1.it](mailto:alessandra.curto@uniroma1.it)

AMALDI RESEARCH CENTER

Balbi

Bertone

Savaglio

SAPIENZA UNIVERSITÀ DI ROMA

etc DarkGRA

[web.uniroma1.it/gmunu/incontri-gravitazionali](http://web.uniroma1.it/gmunu/incontri-gravitazionali)

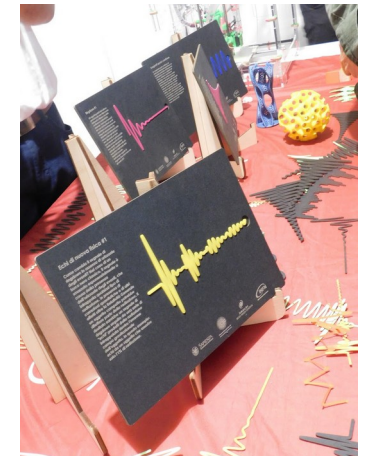
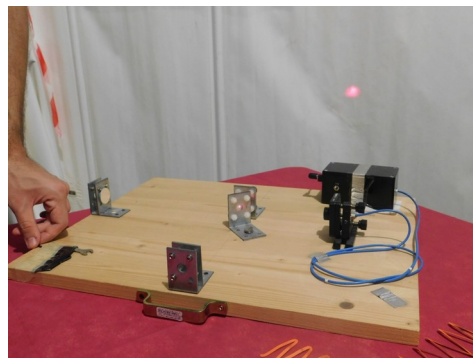


# European Researchers' Nights



- ARC was involved in the activities of the ERN 2020 and 2021
- 2020: public talks by ARC members & ARC Videos
- 2021: joint projects with “*Percorso d'Eccelesenza*”, *Sapienza School of Advanced Studies (SSAS)*, Physics Department and INFN (Pia Astone, Marco Drago, Elisa Maggio, Ilia Musco, Costantino Pacilio, Ornella Piccinni, Livia Soffi...)

~5000 participants in 2021



More pics [HERE](#) (whole event) and [HERE](#) (ARC exposition)!

# ARC PhD Scholarships & Prizes

- **11 PhD scholarships** for the PhD programmes in Physics and in Astrophysics & Astronomy (~800K Euro) --> see poster session at the coffee break
- **2+2 prizes for the best master and PhD theses and the best doctoral theses** on the topics related to the ARC research areas.
- 2 prizes for master's theses (1K euro) are reserved to students who obtained their degree in Physics (LM 17) or Astronomy and Astrophysics (LM 58) at the Department of Physics Sapienza University of Rome
- 2 prizes for doctoral theses (3K euro) are reserved to students who obtained their degree in Physics or Astrophysics in any Italian University.

The 2020 Amaldi Research Center award for the two best PhD theses have been awarded to:



**Silvia Celli**  
for her thesis on "*Gamma-ray and neutrino signatures of Galactic cosmic-ray accelerators*"

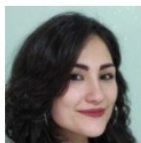


**Simone Mastrogiovanni**  
for his thesis on "*Advanced data analysis techniques for the detection of gravitational waves from asymmetric spinning neutron stars: an application to the first and second LIGO-Virgo observing runs*"

The 2020 Amaldi Research Center award for the two best master theses have been awarded to:



**Elisa Nitoglia**  
for her thesis on "*A phenomenological gravitational waveform model for neutron star - black hole coalescing binaries*"



**Angela Zegarelli**  
for her thesis on "*Temporal studies of GRB light curves and neutrino flux prediction for multi-collision zone model*"



Courtesy of Maurizio Perciballi

# ARC Visiting Program

## Visiting professors 2019



**Vitor Cardoso**  
Instituto Superior Técnico, Lisbon  
February 12 - February 25, 2019  
[Curriculum Vitae](#)



**Marcello Messina**  
New York Univ at Abu Dhabi  
March 25 - June 25, 2019  
[Curriculum Vitae](#)



**Pau Amaro Seoane**  
Institute of Space Sciences, Barcelona  
April 1-19, 2019, and November 4 - November 22, 2019  
[Curriculum Vitae](#)



**Bernard Whiting**  
University of Florida  
June 24 - June 28, 2019  
[Curriculum Vitae](#)



**Dinesh Loomba**  
The University of New Mexico  
July 3 - July 18, 2019  
[Curriculum Vitae](#)



**Emanuele Berti**  
Johns Hopkins University  
July 15 - August 2, 2019  
[Curriculum Vitae](#)



**Marta Volonteri**  
Institut d'Astrophysique de Paris, Sorbonne Université  
September 23 - October 4, 2019  
[Curriculum Vitae](#)



**Simon Portegies Zwart**  
Leiden University  
October 11 - October 19, 2019  
[Curriculum Vitae](#)

## Visitors 2022



**Kazuyuki Omukai**  
Tohoku University, Japan  
April - June, 2022  
[Curriculum Vitae](#)



**Tito Dal Canton**  
IJCLab, France  
April - June, 2022  
[Curriculum Vitae](#)



**Fabio Antonini**  
Cardiff University, UK  
May, 2022  
[Curriculum Vitae](#)



**Emanuele Berti**  
Johns Hopkins University, USA  
June - August, 2022  
[Curriculum Vitae](#)



**Marta Volonteri**  
Institut d'Astrophysique de Paris, Sorbonne Université  
October, 2022  
[Curriculum Vitae](#)

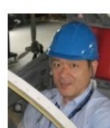
## Visiting professors 2020



**Yuxing Cindy Li**  
Penn State University, USA  
A.Y. 2019-20  
[Curriculum Vitae](#)



**Mark Hannam**  
Cardiff University, UK  
A.Y. 2019-20  
[Curriculum Vitae](#)



**Nobuhiro Kimura**  
University of Tokyo, Japan  
November 1 - November 30, 2019  
[Curriculum Vitae](#)

## Visitors 2021



**Simone Mastrogiovanni**  
Astroparticule et Cosmologie Laboratoire, Paris  
September 10 - October 10, 2021  
[Curriculum Vitae](#)



**Andrew Miller**  
Université catholique de Louvain, Belgium  
October - November, 2021  
[Curriculum Vitae](#)



- 14 long-term visitors

- 30+ ARC Seminars

... and counting



# ARC PhD School

**12-16 September 2022 in Otranto (?)**

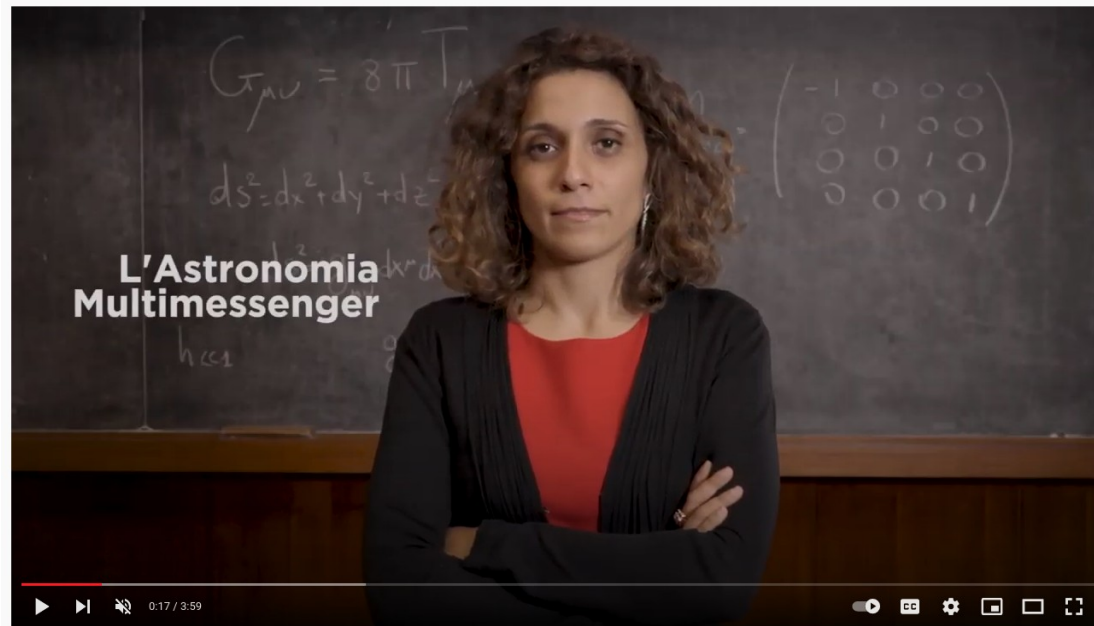
~40 participants and ~ 10 international lecturers on:

- GW modelling
- Astrophysics of GW sources
- Multimessenger astronomy
- GW data analysis
- Quantum optics
- Metrology/sensing
- Material science for 3G interferometers
- Methods and technology achievements towards ET



Organized by: *Irene Di Palma, Ettore Majorana, Paolo Pani, Francesco Pannarale, Ernesto Placidi, Nicolò Spagnolo*  
on behalf of the ARC Steering Committee

# Thanks for your attention!



For more videos please visit the [ARC YouTube Channel](#)

