On the left side of the slide, there are several decorative elements: a large green circle, a medium green circle, and a small green circle, all arranged vertically. To their left, there are several vertical green lines of varying heights and widths, creating a striped effect.

# PONYS – OUTREACH

Dr. F.C.T. Barbato on behalf of PONYS

CRIS 2018 – Portopalo di Capopassero (Italy)

# WHO WE ARE?

Physics and  
Optics  
Naples  
Young  
Students

A group of (**aspiring**)  
Napolitan physicists...



...with the same wish of  
taking a challenge and  
try to break the wall  
between scientists and  
“magos”.



Institute of  
Applied Sciences  
and  
Intelligent Systems

Science

App



Young Minds



Physics  
& Optics  
**PONYS**  
Naples Young  
Students

**SPIE.**



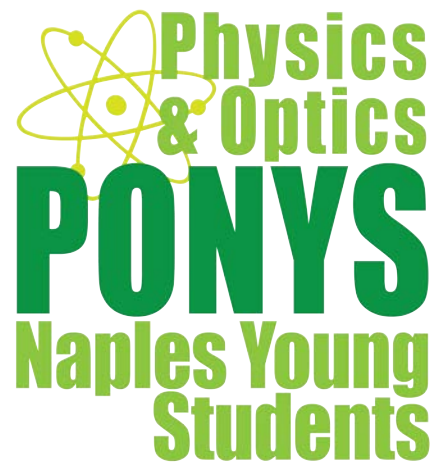
Istituto Nazionale  
di Fisica Nucleare

**OSA**  
The Optical Society



Outreach

Networking



Professional Development



# NOT ONLY OUTREACH



## PROFESSIONAL DEVELOPMENT & NETWORKING

Organization and participation to conferences, workshops with international invited speakers and scientific coffee





# OUTREACH

- Outreach activities in schools



- Organization of outreach events

- Parchi Avventura – Scientific Adventure playgrounds
- Physica in Fabula
- Aperitivo sotto le Stelle – Cocktail under the stars



- Scientific festivals and exhibitions

- Futuro Remoto 2015 – 2017
- Comicon
- Notte Europea dei Ricercatori 2016-2018



# PARCHI AVVENTURA



Playing is a very powerful way of learning



Host in two of the toughest neighborhoods of Naples to give a strong social message



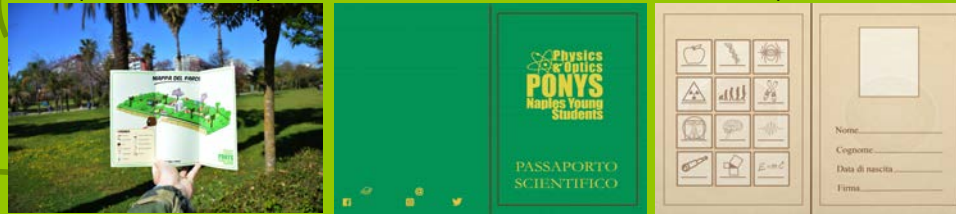
A scientific game where participants can play and learn at the same time





# PARCHI AVVENTURA: THE GAME

Explore the park using the Scientific Explorer Kit



Find the hidden exhibits...



... three routes to follow

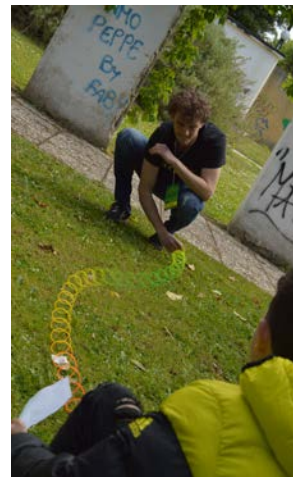
Energy



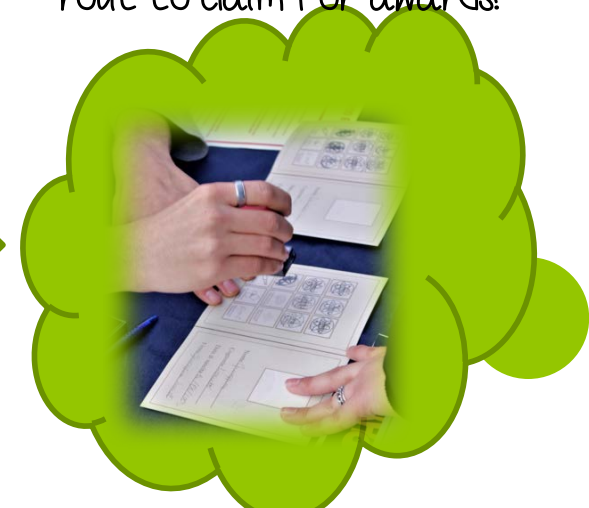
Elements



Waves



Collect the stamps at the end of the route to claim for awards!





# PARCHI AVVENTURA: AWARDS

A recognition by the City of Naples



SIF – Prize for communication of science



EPS – Best Young Minds Section of the year



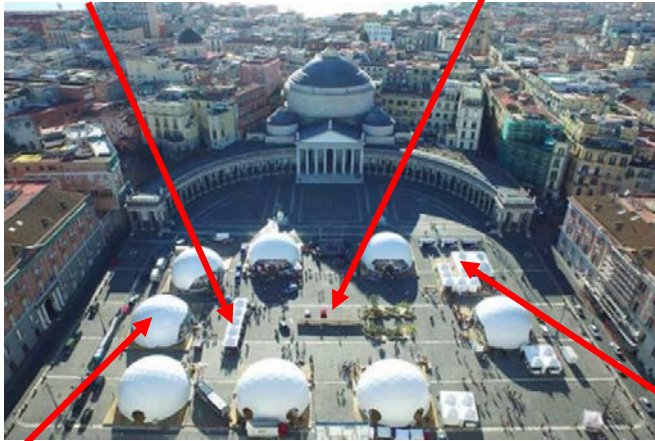
# FUTURO REMOTO

The biggest science festival  
in south of Italy...

...over 150000 visitors!!!



**PONYS are here...** **...And here...**



Held in the main square of Napoli...  
...Piazza del Plebiscito

**...And here...**

**...And here...**

- Over 100 volunteers
- 8 exhibits
- 3 activities





# FUTURO REMOTO

8 exhibits “Physics and...”

Sport



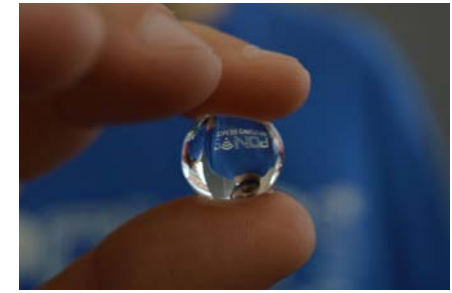
Flames



Bubble Soap



Optics



Sound



Particles



Electromagnetism



Astronomy



3 activities



Scientific Speed Date



Chain Reaction



Physica in Fabula





# MORE PICTURES...





# PHYSICA IN FABULA

*Once upon a time in a bookshop...*

## *Chapter 1: the idea*



“Physica in Fabula” is born by the idea of put together two worlds apparently distant: literature and physics.

Stimulate 5-10 years old children’s curiosity starting by known stories and then pushing them to ask themselves how the phenomena they read about can be explained and reproduced, even if they are sheer products of fantasy (i.e.invisibility cloak).

## *Chapter 2: the target*



# PHYSICA IN FABULA

*...a storyteller was doing experiments...*



“Three little pigs”  
Fluid pressure



“Aladdin”  
Physics of flight



“The rime of ancient mariner”  
Reflection and illusion



“Frankenstein”  
Electrostatic and lightning



“Cars”  
Tinkering laboratory



“Harry Potter”  
Refraction

*...and many others...*



# APERITIVO SOTTO LE STELLE

Let's imagine a workshop...



# APERITIVO SOTTO LE STELLE

Let's imagine a workshop...





# APERITIVO SOTTO LE STELLE

...A scientific workshop...



# APERITIVO SOTTO LE STELLE

...A scientific workshop...



# APERITIVO SOTTO LE STELLE

...How can we wake up people?...

...Let's try with what Italians like...



# APERITIVO SOTTO LE STELLE

...a cocktail dinner...



...a wonderful landscape...



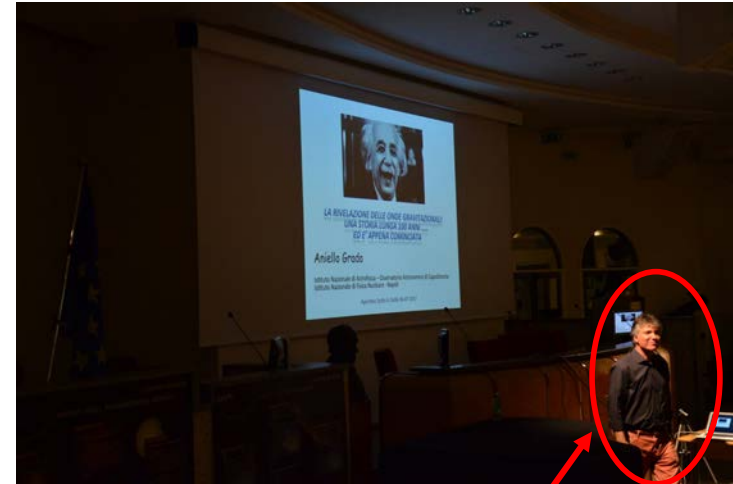
...a starry sky...





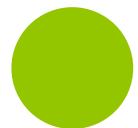
# APERITIVO SOTTO LE STELLE

...maybe also a good speaker...



Lino Grado

...and a stimulating topic...



# APERITIVO SOTTO LE STELLE

...and you can have...



...300 interested visitors each time!



# APERITIVO SOTTO LE STELLE

2° edition

6 meetings on different  
scientific topics

1 it's going to be tonight...



**APERITIVO SOTTO LE STELLE**  
**2018**

10 Maggio  
Prof. Salvatore Capozziello  
"Hawking e macchine del tempo"

22 Maggio  
Prof. Giuseppe Longo  
"L'uomo e il cosmo"

8 Giugno  
Dr. Riccardo de Asmundis  
"La fisica del suono"

21 Giugno  
Dr. Luigi Campajola  
"Archeologia e fisica nucleare"

13 Luglio  
Dr. Antigone Marino  
"La fisica della macchina fotografica"

27 Luglio  
Dr. Roberta Colalillo  
"Un universo di particelle"

ore 20:00  
Osservatorio astronomico di Capodimonte  
Salita Moiarriello  
Napoli

10 € a persona  
Aperitivo a cura di RGG catering  
Per info:  
barbato@na.infn.it

Physics & Optics  
**PONYS**  
Naples Young Students

SCIENTIFICAST

Scientificast

Young Minds



# EUROPEAN RESEARCHER NIGHT

## Physics underground



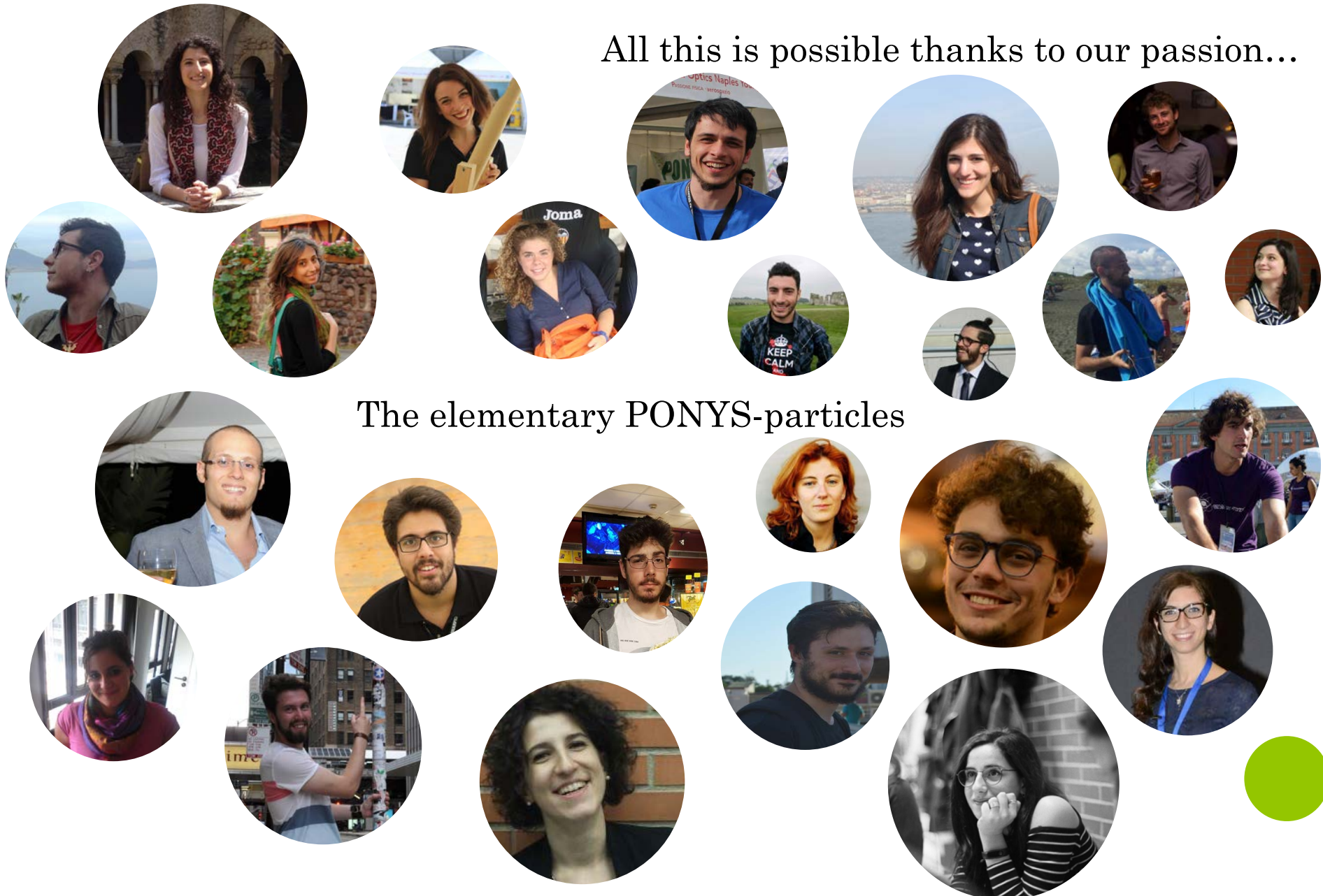
Born to be a  
particle...





# OUR LATEST DISCOVERY

All this is possible thanks to our passion...



The elementary PONYS-particles

# THANKS



# LOOK FOR US!



[ponys.fisica.unina.it](http://ponys.fisica.unina.it)



[ponys@na.infn.it](mailto:ponys@na.infn.it)



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