

What is v ?

GGI workshop + INVISIBLES 12
June 11 - July 15 2012

GGI: Galileo Galilei Institute

INVISIBLES: a bunch of physicists.... who want to do physics !

INVISIBLES

is a

EU ITN (Initial Training Network)

Scientists from 7 EU countries and 7 non-EU countries

- * Core: neutrino and DM phenomenology
- * Young scientists will be its major asset and the "glue"

inVisibles

neutrinos, dark matter & dark energy physics



FULL PARTNERS

- Universidad Autonoma de Madrid
- University of Durham
- Aarhus Universitet
- CNRS
- Max Planck Gesellschaft
- University of Goettingen-DESY

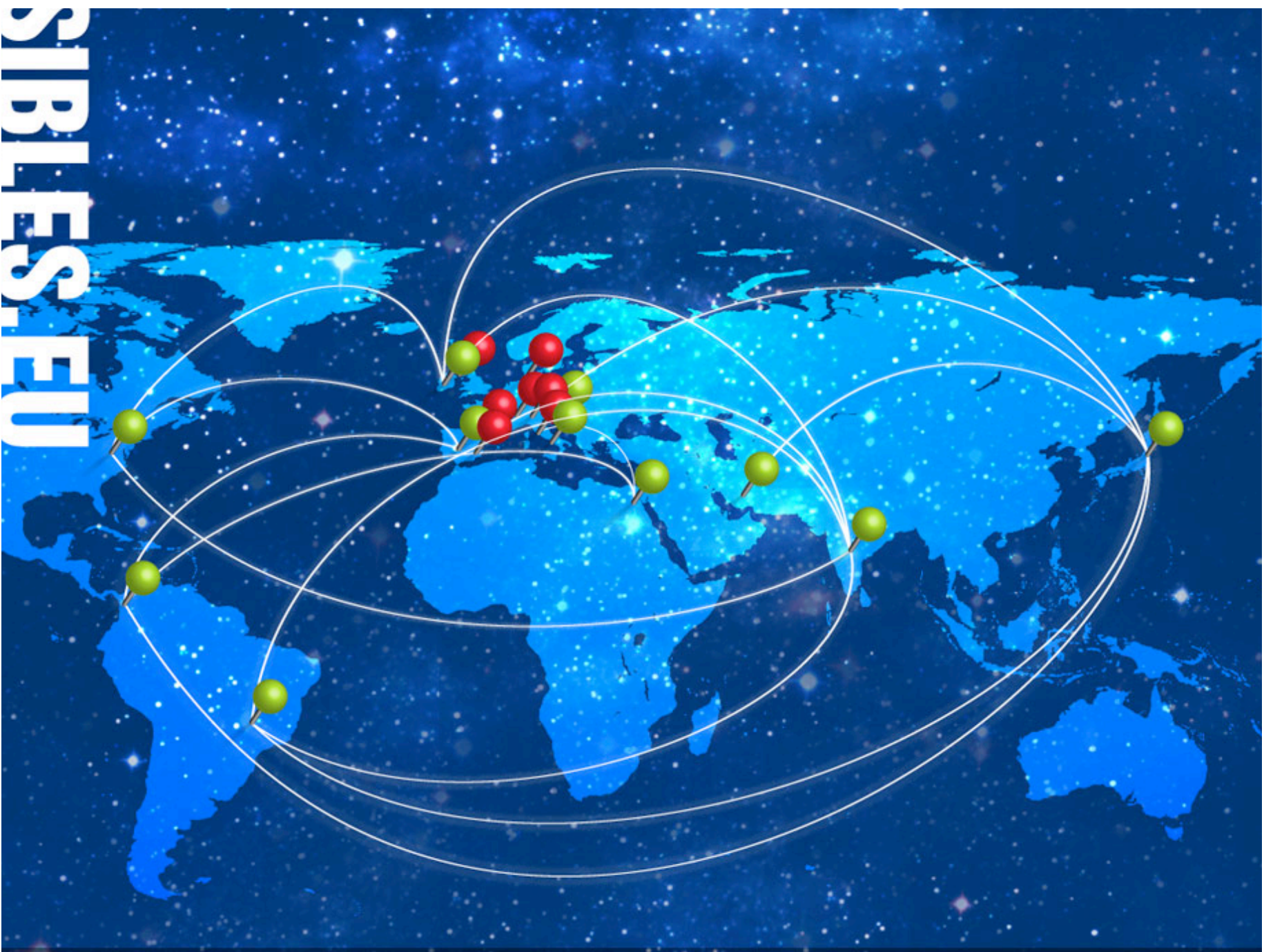
- INFN
- Universidad de Barcelona
- Universidad de Valencia
- University of Zurich
- University of Southampton

ASSOCIATED PARTNERS

- University of Tokyo
- CERN
- Columbia University
- Fermi National Laboratory
- Harvard University
- Universidade de Sao Paulo
- Universidad Antonio Nariño
- British University in Egypt
- University of Delhi
- Harish Chandra Research Institute
- Inst. for Research in Fundamental Science
- Hamamatsu Photonics
- GMV Aerospace and Defense
- Kromek
- Medialab
- Narcea Prod. Multimedia 2MDC



SIBLES-EU



Training school plus workshop : once/year

--> INVISIBLES I2 : Florence

Training school plus workshop : once/year

--> **INVISIBLES I2 : Florence**

--> **INVISIBLES I3: UK**

Training school plus workshop : once/year

--> **INVISIBLES I2 : Florence**

--> **INVISIBLES I3: UK**... a castle..with an obvious member of Invisibles

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Training school plus workshop : once/year

--> **INVISIBLES I2 : Florence**

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--> **INVISIBLES I4: Paris**

--> **INVISIBLES I5: Madrid**

More info in our web page: www.invisibles.eu

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invisibles
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THE NETWORK JOBS OUTREACH



Invisibles is a new European ITN project (FP7-PEOPLE-2011-ITN, PITN-GA-2011-289442-INVISIBLES (April 2012-March 2016)), which focuses on Neutrino and Dark Matter phenomenology and their connection. Experimental and theoretical aspects are also encompassed. The network involves nodes in seven European countries and its associated partners extend to seven non-European countries.

Events Informal pre-meeting of Invisibles at Madrid, March 29th and 30th 2012.
Invisibles12 in Florence June 24th - July 1st 2012.

Breaking News 2012 Gruber Cosmology Prize to GGI guest
Licia Verde, at present a GGI guest and lecturer in the "What is nu?" GGI + INVISIBLES 12 workshop, is one of the recipients of the very prestigious Gruber Cosmology Prize, which has just been awarded to Charles Bennet and the WMAP team for "Pinning down the Universe".

> About us > Open positions > Outreach



"Image of the Sun obtained with neutrinos by the SuperKamiokande collaboration"



What is ν ?

GGI workshop + INVISIBLES 12 June 11 - July 15 2012

In previous weeks we had:

GGI workshop (“Aspen style”)

+

INVISIBLES Training Lectures:

- * Patrick Huber: GLOBES (hands-on)
- * Boris Kayser: Quark and Lepton Flavour
- * Georg Raffelt: Neutrinos in Astrophysics and Cosmology
- * Andrea Romanino: Perspectives on BSM
- * Adam Para: Detectors for Neutrino Physics
(+ This next week Alexei Smirnov: Physics of Neutrino Oscillation and Flavour Conversion)

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June 11 - July 15 2012

We have this whole week June 25-29:

GGI conference

+ INVISIBLES 12

+ Alexei Smirnov Fest (Thursday 28)

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Organizers:

GGI workshop: Ferruccio Feruglio, Bonnie Fleming, Belen Gavela, Steen Hannestad, Takaaki Kajita, Ann Nelson, Silvia Pascoli + Daniele Dominici

INVISIBLES 12: + Laura Baudis, Pilar Hernandez

Alexei Smirnov Fest (Thursday 28): Yasaman Farzan, Michele Frigerio, Cecilia Lunardini

Agenda June 25-29 2012

Monday 24: * Phenomenology of neutrino mixing
+ RECEPTION TODAY AT 6pm

Tuesday 26: * Origin of neutrino masses
* Lepton Flavour Violation

Wednesday 27: * Dark Matter

Thursday 28: * Alexei Smirnov Fest

Friday 29: * Neutrinos in Astrophysics and Cosmology
* Exotic interactions of neutrinos

**+ M, T, X, F at 3pm: Invisibles Training Lectures on
“Physics of Neutrino Oscillations and Flavour Conversion”
by A. Smirnov**

+ Public Lecture Friday 19:00 at Palazzo Pitti: Graciela Gelmini

Di che cosa è fatto l'universo?



Prof. Graciela Gelmini

Università della California Los Angeles

venerdì 29 giugno ore 19.00 Teatro del Rondò di Bacco-Palazzo Pitti (Firenze)

Ingresso libero

invisibles
neutrinos, dark matter & dark energy physics

*Let this workshop fructify in
research of equal or better
quality than that of the local
florentine school*

*e.g. the inhabitant of a nice
little house in a nearby street...*



Costa San Giorgio, Florence



NELL' ANNO 1609
GALILEO GALILEI
PERFEZIONANDO L' USO
DEL CANNOCCHIALE
CONDUCEVA LE OSSERVAZIONI
ASTRONOMICHE
CHE LO AVREBBERO PORTATO
ALLA SCOPERTA
DEI "SATELLITI MEDICEI" DI GIOVE
NEL IV' CENTENARIO IL COMUNE DI FIRENZE PO

Costa San Giorgio, Florence

IN THE YEAR 1609
GALILEO GALILEI,
REFINING THE USE
OF THE “TELESCOPE”
CARRIED THE ASTRONOMY OBSERVATIONS
WHICH WOULD LEAD HIM
TO THE DISCOVERY
OF THE JUPITER “MEDICEI” SATELLITES

NEL


E

PO

*...or even in this GGI building,
in the corridor outside this
room...*

IN QUESTO EDIFICIO,
TRA IL GENNAIO DEL 1925
E L'AUTUNNO DEL 1926,
TENNE IL SUO STUDIO
ENRICO FERMI
E IN ESSO REALIZZÒ
IL LAVORO SULLA STATISTICA
CHE PORTA IL SUO NOME.
I FISICI FIORENTINI POSANO
QUESTA LAPIDE IN RICORDO
DELL' UOMO
E DELLA SUA STRAORDINARIA
OPERA.

24 MARZO 1926 24 MARZO 2011



IN THIS BUILDING,
BETWEEN JANUARY 1925
AND THE FALL 1926,
HAD HIS OFFICE
ENRICO FERMI
AND IN IT HE
ACCOMPLISHED
HIS WORK
ON THE STATISTICS
WHICH
CARRIES HIS NAME