NEWS

NEw Windows on the universe and technological advancements from trilateral EU-US-Japan collaboration



Dissemination and Outreach

C. Oppedisano, F. Cottone, C. Luongo MidTerm Review, Pisa, March 4-5, 2019

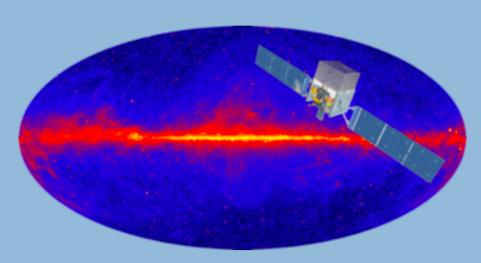


Web site: risenews.df.unipi.it

European Commission

Outreach) high-school students





Fermi Masterclasses 2018

5 April 2018 Bari - Nova Gorica - Perugia - Torino - Trieste



Full day activity for high-school students https://agenda.infn.it/event/13147/ https://agenda.infn.it/event/15174/

"Alternanza scuola lavoro" (2017)

In the framework of an Italian ministerial project, high-school students have to attend training programmes in a work environment. Researchers from Physics department of Torino University and INFN Torino involved students both in Fermi data quality monitoring and in the preparation of material for outreach activities (slides, questionnaires, didactical games) related to Fermi. At the end of the project they presented the material to the Fermi collaboration during a meeting held at CERN.

Dissemination

http://risenews.df.unipi.it/publications/ http://risenews.df.unipi.it/presentations

:// URL	M. Ajello et al. (Fermi-LAT Collaboration), "Fermi-LAT Observations of LIGO/Virgo Event GW170817" (1 file(s) 🛓 0 download	February 2, 2019	Download
:// URL	M. Pearce et at., "Gamma-ray burst localisation strategies for the SPHinX hard X-ray polarimeter" (1 file(s) 🕹 1 download	February 2, 2019	Download
:// URL	F. Ryde et al. ,"Testing a model for subphotospheric dissipation in GRBs: fits to Fermi data constrain the dissipation scenario" I file(s) 🛓 2 downloads	February 2, 2019	Download
کم PDF	🕒 1 file(s) 🕹 2 downloads	January 25, 2019	Download
کم PDF	Charged Lepton Flavour Violation using Intense Muon Beams at Future Facilities	January 25, 2019	Download
کم PDF	The Mu2e Calorimeter Photosensors	January 25, 2019	Download
کم PDF	The MUonE experiment: a novel way to measure the leading order hadronic contribution to the muon g-2	January 25, 2019	Download
کم PDF	The Mu2e Calorimeter Final Technical Design Report (2018)	January 25, 2019	Download
کر PDF	Expression of Interest for Evolution of the Mu2e Experiment	January 25, 2019	Download

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Outreach) master students

Gamma-ray Space Telescope

Summer Students Italian program at the Fermi National Accelerator Laboratory and at other US Laboratories <u>https://www.pi.infn.it/cdf/ss2015/PisaFermilabSummerSchool.html</u>

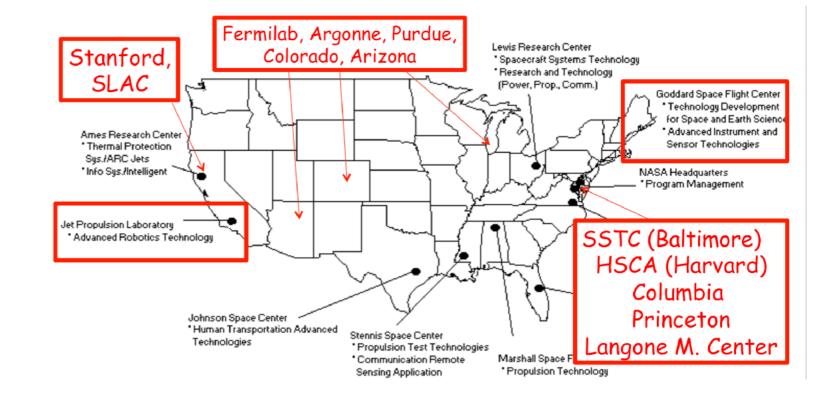
LIGO

9-weeks internship for Physics, Engineering, Computer Science and Materials Science Master students at Fermilab, Stanford or Caltech

Since 2015 Pisa University endorsed these training programs. Coordination by Prof. Simone Donati

NEWS researchers from Pisa University and INFN organised seminars in Pisa and at FNAL and visits to the FNAL laboratories





Outreach) students & researchers

Incontri di Fisica dell'Area Pontecorvo Università di Pisa

<u>Mercoledi' 8 marzo</u> 14,30: Caffe e pasticcini 15,00: La missione spaziale IXPE: una nuova finestra osservativa sull'Universo Luca Baldini

<u>Mercoledi' 24 maggio</u>

14,30: Caffe e pasticcini 15,00: Le Onde Gravitazionali: la sinfonia del Cosmo Walter Del Pozzo Mercoledì 21 febbraio 2018 14,30: Caffè e pasticcini 15,00: Something so simple as a star Steve Shore

Mercoledì 10 offobre 2018 14,30: Caffè e pasticcini 15,00: Astronomia multimessaggero: la nuova frontiera nello studio dell'Universo Massimiliano Razzano

CONSORZIO INTERUNIVERSITARIO NAZIONALE PER LA FISICA E DELLE ATMOSFERE E DELLE IDROSFERE SCUOLA DI ALTA FORMAZIONE - COGN



Onde gravitazionali, astronomia e buchi neri

l'invisibile sinfonia dell'universo

INFN

Tavola rotonda Fernando Ferroni, Presidente INFN

Istituto Nazionale di Fisica Nucleare



Nicolao Fornengo, Università di Torino e INFN/Torino

Sala Maria Ida Viglino Palazzo Regionale Aosta, Piazza Deffeyes, 1



Alessandro Nagar Centro Fermi e INFN/Torino

lunedì 13 febbraio 2017 ore 18.00



ingresso libero

INFN

((O))VIRGD

TWEET DALLO SPAZIO PROFONDO

onde gravitazionali: teorie, uomini e macchine

Sebastiano Bernuzzi (Università di Parma & INFN Milano Bicocca Walter Del Pozzo (Università di Pisa & INFN) Giancarlo Ghirlanda (INAF, Osservatorio di Brera & INFN Milano Bicocca) Alessandro Nagar (Centro Fermi, INFN Torino & IHES)

Martedì 24 Ottobre 2017 Aula Magna Tullio Regge Dipartimento di Fisica Via P. Giuria 1, Torino Ore 17:00 Ingresso libero

UNIVERSITÀ

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Dai quark all'Universo

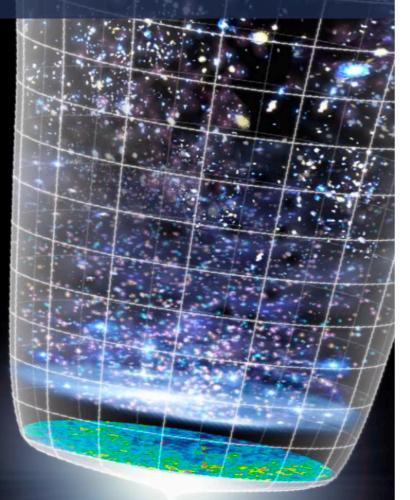
di Fisica Nuclear

Le nuove frontiere della fisica moderna

L'evoluzione del cosmo raccontata dai ricercatori del Dipartimento di Fisica

Interverranno

Walter Del Pozzo Massimiliano Razzano Ettore Vicari



Venerdì 28 settembre 2018 - ore 21:00

Aula Magna "F.Ili Pontecorvo" Polo Fibonacci - Largo B. Pontecorvo, 3 (Pisa) Associazione Culturale

Ciclo Arte e Scienza

Con il patrocinio dell'Assessorato alla Cultura Sala Consiliare del Comune di Montecatini Terme



Giovedì 15 Giugno ore 21

"Astronomia gravitazionale: l'alba di una nuova scienza"

INCONTRO con **Gianluca Gemme**, responsabile nazionale **Virgo**, sull' implementazione dell'interferometro di Cascina (Pisa). Introduce *Massimo Fochi* - coordina *Gianna Porciani*.







Narra

R. Battiston, Università di Trento già Presidente Agenzia Spaziale Italiana

> Protagoniste Le leggi della fisica

LE STELLE DEL CINEMA

AVVENTURE SCIENTIFICHE SUL GRANDE SCHERMO

11 febbraio 2019 Aosta - Cittadella dei Giovani

Ore 17.30 Sala del Teatro

Ingresso gratuito Via Garibaldi 7





Con il patrocinio di



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Nobel prize colloquia

Un giorno con il Nobel

Dai neutrini alle onde gravitazionali

PERÚGIA 13 Febbraio 2017

Incontro con il Premio Nobel per la Fisica 2015 **Takaaki KAJITA**

CONFERIMENTO LAUREA HONORIS CAUSA A TAKAAKI KAJITA* Auto Magna - Patazzo Mureng - Piazza dell'Università.

*Per informazioni e prenotazioni gruppi scolastici Tel: 075/5852014

LAUDATIO ACADEMICA Helios Vocca - Dipartamento di Fisica e Geologia ed esperimento Virgo

LECTIO MAGISTRALIS Takaaki Kajita - Premio Nobel per Le Fialce 2015 "La scoperta della massa dei neutrini a Kamioka"

CONFERIMENTO LAUREA

SALUTI INTRODUTTIVI Solo dei Notori Andrea Romizi - Sindeco di Perugia Franco Moriconi - Rettore Università degli Studi di Perugia

LECTIO MAGISTRALIS

Takaaki Kajita - Premo Nobel per La Fisca 2015 "Le onde gravitazionali e La nuova astrofisica" 19 Aglese con troduzione satultonea







in collaborazione cor

I SEGRETI DEI NEUTRINI: PARTICELLE CAMALEONTICHE

TAKAAKI KAJITA Premio Nobel per la Fisica 2015

2 luglio 2018 Aula Magna Cavallerizza Reale via Verdi 9 Torino ore 20.45 (ingresso dalle ore 20.00 fino a esaurimento posti)

L'immagine mostra la ricostruzione del passaggio di un neutrino all'interno di SuperKamiokande

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VIRGO-EGO laboratory visited by nearly 8000 people per year

(75% high-school visits)



Gubbio Scienza July 2017 Science Festival and International Conference on ICT and Sustainability 2000 visitors in 10 days

Waves Hunters: Science Show



The Einstein's Island www.isoladieinstein.eu International Science shows festival Polvese Island – Umbria region Central Italy 12.000 visitors from allover Italy during the first week-.end of September Presentation of a science show on gravitational waves





Fosforo www.fosforo.it Science Festival Senigallia – Le Marche region Central Italy 10.000 visitors in one week of events Presentation of a science talk-show on gravitational waves



European Researcher's Night I



SHARPER at Parlamentarium in Bruxelles - September 2017

http://ec.europa.eu/research/mariecurieactions/science-is-wonderful_en

A science Communicator and a Researcher presenting the Gravitational Waves science through interactive demos at EU parliament

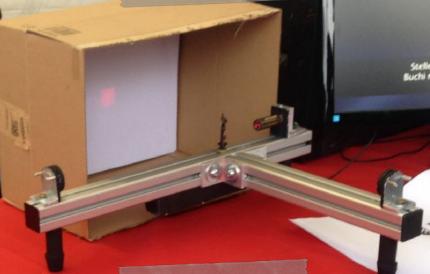
Massimiliano Trevisan, Science Communicator, Psiquadro social enterprise for science communication Prof. Helios Vocca, Researcher, University of Perugia & Virgo group Leader

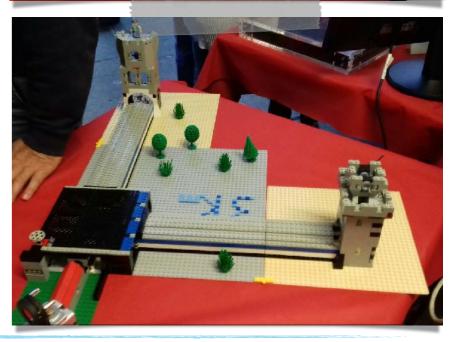
European Researcher's Night II



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The Turin tower "Mole Antonelliana" was decorated with light projection inspired to Fermi telescope for the 10th anniversary News reported both by specialised and public media







BANDO INTERNAZIONALE DI ILLUSTRAZIONE 5ª EDIZIONE 2018

EDIZIONE 2018

nio speciale "Fermi tutti" di **250 euro** assegnato dall'Istituto Nazionale di Fisica (INFN) sezione di Torino, nell'ambito delle celebrazioni del decennale del satellite

LA MOLE



HOME

International competition for illustrators, with a special prize in the occasion of the 10th Fermi telescope anniversary

Winner of the contest

CONTATTI

FD PRECEDENTI 🔍

Science & art

CERN event "Blazing Quasi- Stellar Object" (29 March 2017)

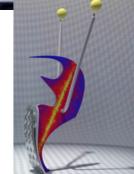
Performance by artist Luca Pozzi

Event web page: https://indico.cern.ch/event/598262/contributions/2535509/

Press release: <u>https://indico.cern.ch/event/598262/contributions/2535509/</u> attachments/1440148/2243368/BQSO_press_review.pdf

Recorded event: https://cds.cern.ch/record/2258204

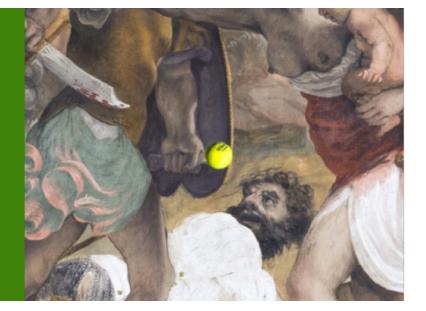




LUCA POZZI. THE GRANDFATHER PLATFORM

Dal: 2/02/2018 - Al: 30/03/2018 Palazzo Magnani, via Zamboni 20 - Bologna Tel: +39 051 2962503





Artistic exhibit by Luca Pozzi in Bologna

www.lucapozzi.com/the-grandfather-platform

- in collaboration with ESA and INFN Torino
- wide appeal for the general public

http://www.arte.rai.it/articoli/gravit%C3%A0-quantistica-storia-dell%E2%80%99arte-e-buchi-neri-un-viaggio-quantistico-con-luca-pozzi/39765/default.aspx

Science & culture



"Valuable knowledge: discovering the talents of the city of Pisa"

March and April 2018: the cultural association "Palazzo Blu: Arte e Cultura" in Pisa, in collaboration with Pisa University and INFN, organized a serie of events for the general public.

Prof. Massimiliano Razzano, Dr. Diego Passuello and Dr. Carlo Bradaschia presented the Virgo experiment at the Cascina EGO site.

Museum permanent demonstration

Astrophysics and Gravitational Waves experimental setup installer both at Science and Technology Museum (POST) and Physics Department in Perugia.

http://www.perugiapost.it/

Meeting communities 0



5th KAGRA International Workshop February 14-15, 2019

1⁴³ KAGRA-Virgo-3G Detectors Workshop February 16, 2019

Perugia, Italy

The 1st KAGRA-Virgo-3G Detectors Workshop

February 2019: the KAGRA experiment realises a bridge between the second generation of GW detectors, like Advanced Virgo and Advanced LIGO, and the third generation of GW observatories, like Einstein Telescope and Cosmic Explorer.

Meeting communities I

Workshop on Observatory Synergies for Astroparticle physics and Geoscience

February 2019: Geosciences and Astroparticle Physics share a mutual scientific culture based on common objects of study, methods and approaches.

explore the possible common grounds and combine the scientific expertise of both fields, in order to promote original interdisciplinary research and education projects.



1st Conference on Machine Learning for Gravitational Waves, Geophysics, Robotics, Control System and CA17137 MC2 meeting January 2019: Cost Action aiming at creating a broad network of scientists from 4 different areas of expertise: GW physics, Geophysics, Computing Science and Robotics, with a common goal of tackling challenges in data analysis and noise characterization for GW detectors.



APPFC

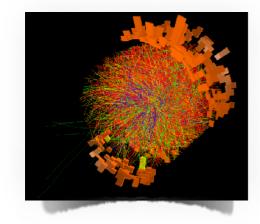
Meeting communities II



GWEOS-2019 Pisa Workshop

https://agenda.infn.it/event/17643/

Aim of the workshop: put together physicists with competences in gravitational waves, nuclear physics and neutron star physics to create a bridge between these communities and to foster future collaborations.



Temperature

