

# XXXVIII Convegno Nazionale Società Italiana degli Storici della Fisica e dell'Astronomia

Messina, 3-6 Ottobre 2018  
Scientific Programme

## **Wednesday 3 October: Accademia Peloritana dei Pericolanti**

8:00 -Registration

8:50 **Introduction: A. Pagano (SISFA-INFN Catania)**

9:00 **WELCOME (Rector UniME, SISFA President, Director of Department, Acc. Pericolanti President, INFN Directors, PLS-FISICA president, CSFNSM Director)**

**Opening Lectures (chairperson: Lucio Fregonese-SISFA-UniPV)**

9:20 Robert Iliffe (University of Sussex)  
“the evolution of Newton’s scientific method”

10:00 Fabio Bevilacqua (UniPV - SISFA)  
“Theoretical and experimental formulations of “energy” conservation and their historiography”.

10:25 Marco Ceccarelli (UniCassino)  
“Models of mechanisms for teaching and experimental activity”

10:50 Paolo Rossi (UniPI - SISFA)  
“Gli effetti delle leggi razziali sulla Fisica italiana”

11:15 Agnese Mandrino (INAF-Osservatorio Astronomico di Brera), Fabrizio Bònoli (UniBO – SAI – SISFA)

“Sotto lo stesso cielo? Gli astronomi italiani colpiti dalle leggi razziali; il caso siciliano”

11:40 Coffee break

**General (chairperson: Fabio Bevilacqua UniMi-SISFA)**

12:00 Andrea Rapisarda (UniCT - SISFA)  
“From the discovery of Deterministic Chaos to the new Science of Complexity”

12:25 Danilo Capecchi (UniRM Sapienza - SISFA)  
“The role of force in d’Alembert and Euler”

12:45 Danilo Capecchi (UniRM Sapienza - SISFA), Antonino Drago (UniNA-SISFA)  
“A comparison Between Lagrange’s Mechanics and Hamilton’s Mechanics”

13:05 Adele La Rana (Centro studi Enrico Fermi - SISFA)  
“Portrait of an antifascist: the mathematician Giulio Bisconcini”

13:25 Lunch

**General (chairperson: Angelo Pagano-SISFA)**

15:00 Joel Pouthas (LPC Caen)  
“From open science to military secrets: the first years of nuclear fission”

15:25 A. Gasperini (INAF- Osservatorio Astronomico di Arcetri), M. Gargano (INAF- Osservatorio Astronomico di Capodimonte), V. Zanini (INAF- Osservatorio Astronomico di Padova),  
“Italian astronomers @ IAU: the contribution and the role of the Italian astronomers inside IAU from the foundation to the second post-war period.”

15:45 Marco Di Mauro (UniSa), Salvatore Esposito (INFN Na - SISFA), Adele Naddeo (INFN Na)  
“Searching for a response: Feynman’s work on the amplifier theory”

16:05 Giorgio Dragoni (UniBO), Paolo Cinti (UniBO)  
“On the background of the formation of great physicists of the past (James C. Maxwell and A. Righi), the experimental “ways” with which Righi confirmed the electromagnetic theory of light.”

16:25 Luciana Vieira Souza da Silva (University of São Paulo)

“Gleb Wataghin and the Department of Physics of University of São Paulo: between Italian and Russian nationalities in times of hostility (1934-1949)”

16:45 Coffee break

**General (chairperson: Danilo Capecchi-SISFA)**

17:00 Paolo Rossi (UniPI - SISFA)

“Mario e Lamberto Allegretti: la vita complicata di due fisici pisani”

17:20 Arcangelo Rossi (UniSalento - SISFA)

“The Epistemological and Scientific Legacy of René Thom’s Thought”

17:40 Gianluca Introzzi (UniPV)

“Ninety One Years of Uncertainty”

18:00 Angela Laurora (UniBa - SISFA), Augusto Garuccio (UniBA - SISFA)

“Scientific correspondence between John Bell and Rudolf Peierls: four unpublished letters”

18:20 Antonino Drago (UniNA -SISFA)

“Strocchi’s revisiting Dirac’s Quantization according to the C\* algebraic approach”

18:40 Roberto Paura (UniPG)

“From Gilbert’s magnetism to the Electric Universe Theory: understanding the genealogy of a pseudoscientific idea”

19:00 Giancarlo Albertini (Teacher, Collegno) - Anna Sicolo (ASL Na1)

“Einstein, Principio di meccanica numerica by Carlo Grillo and the archive of Princeton University”

19:20 Enrico Giannetto (UniBG) (\*)

“Henri Poincaré e la Relatività”

(\*) to be confirmed

**Welcome Cocktail**

**Thursday 4 October: Excursion to Reggio Calabria archaeological museum**

*Transportation from Messina to Reggio Calabria and Planetarium Pythagoras will be assured by the organization*

8:30 Departure to RC

10:00 Reggio Calabria Museum (Bronzi di Riace) with guide

12:30 Aperit-Lunch at Reggio Calabria ‘Gelateria Matteotti’

14:00 Departure to Planetarium Pythagoras

**Astronomy-Instrumentation (chairperson: Fabrizio Bonoli -SISFA)**

14:30 Eugenio Coccia (GSSI - INFN - UniAQ)

“Nascita di una nuova astronomia”

15:10 Angela Misiano (SAIt Reggio Calabria - Planetarium Pythagoras)

“Presentazione Astronomia – SAIt Calabria”

15:35 Roberto Mantovani (UniURB - SISFA)

“And Yet it Moves: The Foucault Pendulum in Italy”

15:55 Raffaele Pisano (Lille University - SISFA), Philippe Vincent (Lille University)

“Reading the Discoveries of Gravitational Waves as New History of Physics Research Programme”

16:15 Andrea Orlando (Istituto di Archeoastronomia Siciliana -Fondazione Floresta Longo)

“Un astrolabio di Gualterus Arsenius ed alcuni strumenti gnomonici ritrovati nei magazzini del Castello Ursino di Catania”

16:35 Coffee break

**Angelo Secchi –Instrumentation (chairperson: Roberto Mantovani-SISFA)**

16:50 Ileana Chinnici (INAF- Osservatorio Astronomico di Palermo-SISFA)

“Angelo Secchi: Recent biographical studies “

17:15 Paolo Brenni (CNR/Fondazione Scienza e Tecnica - SISFA)

“Il Metereografo di Padre Angelo Secchi”

17:40 Maria Luisa Tuscano (SISFA) (\*)

“Angelo Secchi and The Mean Time”

18:05 Piercarlo Bonifacio (Observatoire de Paris), Ileana Chinnici (INAF-Osservatorio Astronomico. di Palermo - SISFA)

“Rediscovering the memories of Angelo Secchi on the prismatic spectra”

18:30 Lino Colombo (Teacher, I.I.S. Inveruno - SISFA)

“The spectroscope “de poche” source of Angelo Secchi’s stellar spectroscopy research”

18:50 Salvatore Esposito (INFN NA - SISFA)

“With the eyes of the witness: the Poli’s Engine for the King of Naples”

19:10 Departure to “Cannitello Villa S.Giovanni “

20:00 Social dinner –“Boccaccio Restaurant ”

23:00 Departure to Messina

(\* to be confirmed

**Friday 5 October: Cannizzaro-room**

**E. Majorana (chairperson: Salvatore Esposito (SISFA))**

9:00 -Erasmus Recami (UniBG - SISFA)

“Una introduzione a vita e opere di Ettore Majorana”

9:40 Francesco Guerra (UniRM Sapienza - SISFA)

“Enrico Fermi: miracoli a via Panisperna”

10:05 Amand Faessler (University of Tuebingen)

“Why did Ettore Majorana invent the “Majorana Neutrino” and is it really “Majorana ???”

10:30 G. Cuttone (Director LNS-Catania)

“The Numen project” (title to be confirmed)

10:50 Coffee break

**E. Majorana (chairperson: Pasquale Tucci (UniMi-SISFA))**

11:05 Frank Close (Oxford University)

“Half Lives - the mysterious disappearances of Pontecorvo and Majorana.”

11:30 Nadia Robotti (UniGE - SISFA)

“Emilio Segrè, Enrico Fermi, Bruno Pontecorvo verso l'America”

11:55 Ennio Arimondo (UniPI)

“Ettore Majorana e l’introduzione del processo di Autoionizzazione nella Fisica Atomica”

12:20 Mario Casella

“Ettore Majorana, the mathematician: Notes on the Logarithm Integral”

12:45 **Open discussion**

13:20 Lunch

**SSISFA Best Paper Prize-Outreach (chairperson: Paolo Brenni - SISFA)**

14:45 Alexander Blum (Max Planck Institute for the History of Science) SISFA BEST PRIZE 2017

“How quantum field theory became a theory of scattering”(to be confirmed)

15:10 Flavio Del Santo (University of Vienna) - Special mention SISFA Prize 2017

“Karl Popper’s Contribution to the Foundation of Quantum Mechanics.”

15:30 Mattia Ivaldi (UniTO), Alessandra Amosso (UniTO)

“History and Physics Experience - the students’ contribution in the great debate”

**Scientific Heritage-Instruments-Outreach – (chairperson: Giuseppina Immè-UniCT-PLS)**

15:55 Giovanni La Rana (Director INFN NA)

“The first fifty years of the Italian National Institute for Nuclear Physics in Naples”

16:15 Paolo Mastroserio (INFN NA)-

“The first fifty years of Computing at the INFN in Naples. History and images, from 1963 to 2013”

16:35 Luigi Romano (ARPA Puglia - UniBA - SISFA), Augusto Garuccio (UniBA - SISFA)

“Peripheral model and one pion exchange model. Franco Selleri and his research on particle physics: 1958-1969”

16:55 Coffee break

17:15 Vincenzo Cioci (Lille University), Raffaele Pisano (Lille University - LSE, UK)

“Galileo's free fall into History Physics and Nature of Science Teaching”

17:35 Azzurra Auteri (Associazione Naturalia Na - SISFA), Rosanna Del Monte (Museo di Fisica-UniNA)

“Palmieri's diaphragm: a scientific instrument useful to product sector”

17:55 Azzurra Auteri (Associazione Naturalia Na - SISFA), Rosanna Del Monte (Museo di Fisica-UniNA)

“Study of a “new sounding line” of Professor P.A. de Luca.”

18:15 General SISFA Assembly

20:00 Excursion to Taormina free time (\*\*)

24:00 Departure to Messina

(\*\*) if time available

**Saturday 6 October: Cannizzaro room**

**Conclusive general session (chairperson: M.Trimarchi- UniMe)**

9:00 R. Zingales, I. Chinnici (SISFA), A. Agliolo Gallitto (UniPA, INAF-Osservatorio Astronomico di Palermo)

“1937, Palermo: la scoperta del tecnezio”

9:25 Renato Pucci (UniCT) (\*) “Marconi”

9:45 Renato Migliorato (UniME - SISFA)

“On the Tracks of a Scientific Paradigm”

10:05 Giuseppe Boscarino (Ass. Culturale S. Notarrigo - SISFA)

“D'Alembert or On the good physics”

10:25 Aldo Altamore (Uni Roma-Tre)

“Gli strumenti scientifici di Angelo Secchi

10:45 Coffee break

(\*) to be confirmed

**Conclusive Instrumentation/Didactics (chairperson: Sara Pirrone (INFN-CT))**

11:00 Benedetta Campanile (UnBA - Seminario di Storia della Scienza)

“Eugene Fubini: from “ferret” systems to IBM”

11:20 Lucia De Frenza (UniBa - Seminario di Storia della Scienza- SISFA)

“The induction electrometer in the nineteenth century Italian physics”

11:40 Eleonora Loiodice (UniBA)

“Back to the origins: science and astronomy before history”

12:00 V.Caruso, G.Florio, L.Leonardi (Liceo "G.Seguenza" - Me)

“Il laboratorio di fisica del liceo "Seguenza" di Messina”

12:20 Giovanna Federico (Teacher- Liceo Classico G. Garibaldi - Pa)

“Scientific Cultural Heritage in 3D: The Stereo Images of the early 20th Century at the scientific museum of the high school “G. Garibaldi” in Palermo”

12:40 G. Immè (UniCT and INFN Sezione di Catania)

“Il progetto RadioLab per le scuole”

13:00 Lunch

**Conclusive General (chairperson: Renato Migliorato UniMe-SISFA)**

14:30 Ruth Castillo (Universidad Central de Venezuela)

“Symmetry in Physics: Proportion and Harmony to the term of Metalanguage”

14:50 Edoardo Piparo (A.I.F.– Liceo scientifico statale “Archimede” Me)

“The Schools of History of Physics as a tool for cultural development and dissemination”

15:10 Luca Santoro (Salerno-SISFA)

“Two Neapolitan scientists in the XVIII century”

15:30 Angelo Pagano (INFN CT - SISFA)

“The Majorana last paper: statistics and social impact”

**Closing Congress**