CURRICULUM VITAE DI FRANCO CAMERA

Dati Personali	Franco Camera [redacted]
Educazione	Laurea (master) in Fisica (1988, Università degli Studi di Milano) Ph.D. in Fisica (1993 Milano, Università degli Studi di Milano
Posizione Accademica	Professore Ordinario di Fisica presso l'Università Statale di Milano (dal 2021). Prima: Professore Associato di Fisica ((2002-2020)) presso l'Università Statale di Milano. Prima: Ricercatore in fisica (1996-2002) presso l'Università Statale di Milano (dip. di informatica sede di Crema)
Abilitazione	2014 Abilitazione a professore Ordinario (domanda fatta nel 2012)
Attività didattica (corsi)	1996-2001 "Esercitazioni di Fisica 1" c/o corso di laurea di informatica (Crema) 1999-2000 "Esercitazioni di Analisi 1" c/o il corso di laurea di informatica (Crema) 2000-2002 "Laboratorio di Fisica Generale II" c/o il corso di Laurea in Chimica (Milano) 2001-2002 "Corso di Fisica 1" c/o il corso di laurea di informatica (Crema) 2002-2003 "Fisica Generale" c/o il corso di laurea in comunicazioni digitali (Milano) 2003-2005 "Fisica Generale" c/o il corso di laurea in informatica (Milano) 2006-2008 "Laboratorio di Fisica I" c/o il corso di Laurea in Fisica (Milano) 2006-2008 "Laboratorio di Fisica II" c/o il corso di Laurea in Fisica (Milano) 2009-ora Co-Docente del "Laboratorio di Fisica con Elementi di Statistica" c/o il corso di Laurea in Fisica (Milano) 2017-ora "Fisica Generale" c/o il corso di Laurea in Farmacia 2007-ora Co-Docente del "Laboratorio di Spettroscopia Gamma" c/o il corso di Laurea in Fisica (Milano) 1999-2000 "Co-Docente" del corso di "Elettromagnetismo" presso la Scuola Interuniversitaria Lombarda di Specializzazione per l'Insegnamento Secondario, Sezione di Milano (SILSIS-MI) 2000-2009 "Laboratorio di Fisica 1" presso la SILSIS-MI 2012-ora "Interazione Radiazione Materia" presso la "Scuola di Specializzazione in Fisica Sanitaria"
Attività didattica (tesi)	Tutor di Stage con studenti provenienti da U.S.A. (2008 and 2009) e U.K. (2014,2016) "Relatore" o "Correlatore" di circa 75 tesi Tesi Quadriennali - Relatore of 3 tesi - Correlatore di 12 tesi Tesi Triennali - Relatore of 28 tesi - Correlatore di 5 tesi Tesi Magistrali - Relatore of 13 tesi - Correlatore di 3 tesi Tesi finali SILSIS-MI - supervisore di 7 tesi Supervisore di 8 tesi di dottorato L'elenco delle tesi Magistrali e di dottorato in cui è stato relatore o supervisore si trova in appendice 3. Un lavoro svolto all'interno della SILSIS-MI ("Camera a Nebbia") ha vinto un premio al CERN (2003) Una tesi di dottorato ha vinto il premio Villi (2016) Membro della commissione per l'esame finale di dottorato presso le Università di Delft, Padova, Firenze, Napoli, Milano Bicocca e Politecnico di Milano
Temi di Ricerca	Struttura Nucleare studiata attraverso la spettroscopia gamma. Studio delle proprietà collettive del nucleo attraverso la misura della Risonanza Gigante di Dipolo. Fasci Radioattivi. R&D su rivelatori per la misura di radiazione gamma (scintillatori and Rivelatori al Germanio Iperpuro (HpGe)). Gamma Imaging.

Progetti Esterni	Progetto europeo GANAS – Progetto finanziato dalla EU (2011-2015) – NUPNET proposal call 2011 (NUPNET = ERA-NET for Nuclear Physics Infrastructures) (GANAS = GAmma detection with New Advanced Scintillators) - In questo progetto sono stato il portavoce del Working Package (WP) sull'"Imaging gamma" - In questo progetto ho avuto il finanziamento di due borse post-dottorato di un anno Progetto europeo ENSAR - JRA INDESYS – Progetto finanziato dalla EU (2011-2015) (ENSAR = European Nuclear Science and Applications Research) (JRA = Joint Research Activity) (INDESYS = Innovative Solution for Nuclear physics detectors) - In questo progetto ho avuto il finanziamento di una borsa post-dottorato di un anno ed una di 6 mesi Progetto europeo ENSAR2 - JRA PASPAG - Progetto finanziato dalla EU (2016-2020) (PASPAG = Phoswich scintillator assemblies: Application to the Simultaneous detection of PArticle and Gamma radiation) - In questo progetto sono il 'deputy' - In questo progetto sono il portavoce del WP sui "nuovi scintillatori" - In questo progetto ho avuto il finanziamento di una borsa di un anno
Comitati e Commissioni	2003-2009 Coordinatore della "Sezione Universitaria di Fisica del Nucleo" 2005-2009 Membro della "Giunta del Dipartimento di Fisica" 2000-2001 "Responsabile Locale" for the INFN CSN3 nell'esperimento MARS 2002-2005 Membro del "RISING Steering Committee" (RISING = Rare Isotopes Investigation at Gsi) 2005-2009 Membro del comitato per l'assegnazione di assegni INFN 2006-2008 Chair del "RISING Steering Committee" 2008-2010 Membro del "RISING Steering Committee" 2010-2014 Membro del "PRESPEC Steering Committee" (PRESPEC = PRE HISPEC and DESPEC) 2012-2015 Group leader del the working group "Position Sensitivity" in NUPNET GANAS project 2013-2015 "autore (non unico)" del TDR per la facility ESFRI europea ELI-NP (Ro) "Gamma above Neutron Threshold" 2016 – Membro della Commissione per un posto di RTDA presso l'università di Padova 2002-2019 Membro della "Commissione per l'accesso alla laurea specialistica" 2011-ora Membro della "Commissione ERASMUS " al Dipartimento di Fisica di Milano 2012-ora Group leader del working group "new scintillators" nella collaborazione internazionale PARIS (PARIS = Photon Array for studies with Radioactive Ion and Stable beams) 2015-ora Membro dell' "Advisory Board" per la costruzione di un array di scintillatori (OSCAR) ad Oslo in Norvegia (OSCAR = Oslo SCintillator Array) 2011-2019 Coordinatore di Milano della Commissione Scientifica Nazionale III (CSN3) dell'INFN - Ero uno dei due referenti della CSN3 per la linea di ricerca "Nuclear Structure and Dynamics" 2019-ora Chair of PARIS Collaboration Council 2011-2014 Membro del collegio di referaggio dell'esperimento INFN DREAMS 2011-2018 Membro del collegio di referaggio degli esperimenti INFN LNS-STREAM e LNS-STREAM2 2018-ora Membro del collegio di referaggio dell'esperimento INFN ASFIN2 2011-ora Membro del collegio di referaggio dell'esperimento INFN EXOCHIM e NEWCHIM 2011 Membro del collegio di referaggio per progetti di fisica nucleare finanziati dal STFC Inglese 2017 e 2019 Membro del collegio di referaggio per la valutazione di candidature a posizioni all'interno del laboratorio IThemba e dell'Università di Citta del Capo (National Research Fundation (NRF) del Sud Africa)
PAC Committee	2015-2017 Membro del Program Advisory Committee (PAC) del laboratorio RCNP Osaka 2017-2018 Chair of the PAC a RCNP Osaka

Pubblicazioni	Co-autore di più di 340 lavori a stampa su riviste scientifiche (tra cui 20 PRL, 25 PLB, 47 PRC, 26 NPA and 35 NIM). Il database "Web of Science" conta più di 5500 citazioni e un h-index of 36. Il numero di co-autori varia da 10 a circa 50 (questo è tipico nel campo dove attualmente svolgo la mia attività di ricerca). Le pubblicazioni in riviste sono più di 140 Le pubblicazioni di atti di conferenza in riviste con peer-review referate sono più di 100 Le pubblicazioni di atti di conferenza sono più di 90 La lista complete delle pubblicazioni si può trovare http://www.mi.infn.it/~camera/CV/paper-2020.pdf Sono Referee per molte riviste scientifiche (ho ricevuto due volte un certificato di riconoscimento come referee da Nuclear Instruments and Methods ed uno da Physics Letter B)
Relazioni Orali	Ho fatto più di 75 presentazioni orali a "workshops" internazionali, a conferenze e scuole più di 50 di queste erano su invito. Ho tenuto 4 seminari presso gli istituti di ricerca e università (Cracovia, Colonia, Oslo ed Osaka) (Una lista dettagliata si può trovare all'indirizzo web http://www.mi.infn.it/~camera/CV/talks-2020.pdf)
Attività per conferenze, workshops e scuole	Ho organizzato un "workshop" a Milano: 2009, 16-17 Novembre "Workshop on LaBr3:Ce scintillators" Nell'ambito delle attività del "PARIS Collaboration Council" ho organizzato un "incontro" a Legnaro: 17 Marzo 2019 un workshop a Legnaro 28-29 Novembre 2019 Sono nel comitato organizzatore del "workshop" a Bormio • Ist Topical Workshop on Modern Aspects in Nuclear Structure (February, 22-25 2012) • IInd Topical Workshop on Modern Aspects in Nuclear Structure (February, 19-22 2014) • IIIrd Topical Workshop on Modern Aspects in Nuclear Structure (February, 22-26 2016) • IV Topical Workshop on Modern Aspects in Nuclear Structure (February, 19-25 2018) • V Topical Workshop on Modern Aspects in Nuclear Structure (February, 4-9 2020) Sono membro del comitato scientifico e organizzatore di SNRI (Seminari Nazionali sui Rivelatori Innovativi) dell'INFN • Edizione del 2009 - Laboratorio Nazionale INFN di Frascati • Edizione del 2010 - Trieste • Edizione del 2012 - Firenze • Edizione del 2014 - Laboratorio Nazionale del Sud - INFN - Catania • Edizione del 2016 - Laboratorio Nazionale do Legnaro - INFN – Padova • Edizione del 2018 – Bologna Sono stato nel comitato scientifico di varie conferenze e scuole: Varenna (Italia) - 13th International Conference on Nuclear Reaction Mechanism June 11-15 2012 - 14th International Conference on Nuclear Reaction Mechanism June 15-19 2015 ANSRI (Irlanda – Dublino) - Applications of Novel Scintillators for Research and Industry 12-14 January 2015 - Application of Novel Scintillators for Research and Industry 11-13 May 2016 - EURORIB (Abano Terme - Padova) 20-25 May 2012

Attività di ricerca (breve)	L'attività scientifica di Franco Camera è focalizzata sulla fisica nucleare sperimentale nel campo della struttura nucleare. In particolare ha lavorato nello studio del decadimento gamma di stati collettivi in nuclei eccitati attraverso reazioni di diffusione elastica / anelastica o fusione-evaporazione. Il decadimento gamma è stato anche usato come sonda per la misura delle proprietà di nuclei rotanti ad alta energia di eccitazione, della simmetria di Isospin, della dinamica della fusione, dell'equazione di stato nucleare e della 'neutron skin'. Recentemente ha anche lavorato allo sviluppo di nuovi rivelatori e/o a nuove tecnologie per la misura della radiazione gamma, specialmente nell'intervallo di energia 5-25 MeV. Nelle sua attività di ricerca ha lavorato nella formulazione del " physics case", nella preparazione del setup sperimentale e nell'analisi dei dati acquisiti. Ha partecipato e dato contributi essenziali con la strumentazione a diverse campagne sperimentali in diversi laboratori a partire dal Niels Bohr Institute di Copenhaghen, l'Università di Stony-Brook (NY, USA), l'IRES di Strasburgo, l'Argonne National Laboratory (Chicago, USA) … Recentemente ha contribuito alla messa a punto della strumentazione e alla presa dati presso i laboratori nazionali INFN di Legnaro, il laboratorio GSI in Germania, il laboratorio Riken, RCNP e SPring8 in Giappone. In queste campagne sperimentali ha anche avuto responsabilità nell'analisi dei dati. Per queste attività si e impegnato, spesso con ruoli di rilievo, allo sviluppo e alla costruzione degli array sperimentali per la spettroscopia gamma HECTOR, EUROBALL, RISING, PRESPEC, recentemente HECTOR+ (un apparato composto da 10 cristalli a grande volume (3.5" x 8") di LaBr3:Ce) e un array di sei rivelatori 3"x3" LaBr3:Ce accoppiati all'apparato GALILEO presso il Laboratorio INFN di Legnaro. Inoltre, sta studiando le proprietà di nuovi scintillatori e l'uso di fotomoltiplicatori al silicio (SiPM) come sensori alternativi ai fototubi tradizionali (PMT) per la misura della luce di scintillazione. Questi contributi hanno importanza anche per alcune applicazioni in campo medico. Recentemente è stato uno dei due autori (l'altro era H.Utsunomiya) del TDR "Gamma sopra la soglia dei neutroni" nel progetto ELI-NP. In questo progetto, finalizzato alla costruzione di una struttura sperimentale per la produzione di un intenso fascio di radiazione gamma monocromatica e polarizzata, sta coordinando lo sviluppo e la costruzione dell'array ELI-GANT per la misura del decadimento neutronico e gamma della Risonanza Gigante di Dipolo. Un resoconto più dettagliato dell'attività di ricerca (in inglese) si può trovare in appendice 1 e all'indirizzo web http://www.mi.infn.it/~camera/CV/activity-2020.pdf Autorizzo il trattamento dei miei dati personali ai sensi del D.lgs. 196 del 30 giugno 2003

Research Activity of Franco Camera (Long)

Franco Camera was born in Milano on August 7th, 1964. He graduated in physics at the Milano University in May 1988 and after two fellowships, one in Copenhagen and one in Milano, he got the Ph.D. in Milano. In May 1996 he obtained a permanent position at the University of Milano as 'Ricercatore' and in September 2002 he became 'Professore Associato'.

The scientific activity of Franco Camera is focused in experimental nuclear physics in the field of nuclear structure. He concentrated his work in the study of the gamma decay of collective states in nuclei excited through elastic/inelastic scattering or fusion-evaporation reactions. He is also interested in the development of new detectors/technologies for the measurement of gamma radiation, especially in the energy range 5-25 MeV.

The activity of Franco Camera can be divided into three different research lines:

1) the study of the gamma decay of collective modes and, in particular: i) the Iso-Vector Giant Dipole Resonance (IVGDR or simply GDR) as a probe for the measurement of the properties of hot rotating nuclei, of isospin mixing and symmetry and of fusion dynamic and ii) the Pygmy Dipole Resonance in stable and exotic neutron rich nuclei.

2) The measurement of high energy gamma rays; namely, the study of new scintillator materials (LaBr3:Ce, CLYC, Co-Doped LaBr3:Ce, CLLBC, ..) and techniques for neutron/gamma identification, gamma and neutron spectroscopy.

3) The study of structure of nuclei far from stability.

In the research activities listed in the first two points he has worked in the definition of the physics cases, in the preparation of the experimental setup and data-taking and in the analysis and interpretation of the acquired data. For this research activity he followed Ph.D. and Post-Doc students (frequently hired using external resources – ERAnet-Nupecc, EU, …). He prepared several experimental proposals having his Ph.D. students and/or Post-Doc students as spokespersons. Concerning the activity listed in the last third point he has mainly concentrated his work in the experimental part.

He took part in many different experimental campaigns in different laboratories: Niels Bohr Institute of Copenhaghen, the University of Stony-Brook (NY, USA), the IRES of Strasburg, the Argonne National Laboratory (Chicago, USA), the INFN laboratories of Legnaro, the laboratory ALTO in Orsay, the GSI laboratory in Germany and recently Riken and RCNP in Japan. During these experimental campaigns he stays in foreign laboratories also for long period (several months at NBI, several weeks at Stony-Brook, Argonne, Strasbourg, GSI) even though, more recently, the local university duties made these stays shorter in time. In these experimental campaigns he had responsibilities in the detector's setup and in the analysis of the data concerning different nuclear structure physics cases and nuclei in many different mass regions.

He has collaborated with the theoretical nuclear physics group in Milano, Livermore and Catania and he has developed the codes for the description, using the thermal fluctuations model, of the properties of the GDR in hot rotating nuclei.

During this experimental activity he has worked in the development and construction of the experimental arrays HECTOR (High Energy DeteCTOR), EUROBALL, RISING, PRESPEC and more recently HECTOR+ (an array of 10 large volume 3.5" x 8" $LaBr_3$:Ce detectors), ELI-GANT (an array of $CeBr_3$, $LaBr_3$:Ce, BC501A and Lithium glass detectors for the ELI-NP facility) and an ancillary for GALILEO array at LNL (composed by 3"x3" LaBr3:Ce scintillators). He also has collaborated in the R&D work on the AGATA array (A Gamma Tracking Array).

He had a very central role in the process of development and construction of the HECTOR array which was designed for the measurement of high energies gamma rays. This activity started since his master and Ph.D. thesis. He has designed, mounted and tested all the detectors and he has collaborated in the development of the HECTOR's multiplicity filter. He had written the software for the data acquisition and analysis and he has calculated, using the GEANT libraries, the response function and he has fully simulated the array to optimize the performances. During his experimental activity with the HECTOR array he has measured in many laboratories in conjunction with the NORDBALL (DK), LEPPEX (USA), EUROBALL (Legnaro, Strasburg and GSI), RISING (GSI) , GARFIELD (Legnaro) arrays. HECTOR is now located at the

Bronowice Cyclotron Centre " in the Henryk Niewodniczanski Institute of Nuclear Physics, Polish Academy of Sciences in Krakow (IFJ PAN).
In the activity more focused on HPGe detectors he has participated first in the EUROBALL project and then in its two follow up (RISING-EUROBALL and PRESPEC-AGATA). In the EUROBALL project, he was in charge of the construction of 4 Italian Cluster detectors and coordinated the assembly of all the European 15 CLUSTERS composing EUROBALL. He was also involved in the AGATA projects finalized to the construction of an array of segmented HPGe capable to fully reconstruct the track of the incident gamma-rays. AGATA is the first HPGe detector array which will be able to perform gamma imaging. In this project (which started with the MARS detector) he has worked on the simulations of the performances of the segmented HPGe detectors and on the Pulse Shape Analysis and tracking techniques and algorithms to first identify and localize the interaction points of the gamma-ray in the detector and then reconstruct the gamma-ray track.
He has recently designed, mounted and tested the upgrading of the HECTOR array based on large volume LaBr3:Ce scintillators (cylinder with a diameter of 8 cm and 20 cm long). The array was completed in 2013 and has already measured in several laboratories (Oslo (N), Debrecen (Hu), LNS (It), GSI (De), Riken (Jp), Osaka (Jp), Spring8 (Jp). At the moment the array is at RCNP-Osaka (Jp).

He had participated in several experiments and, in particular, he coordinated the experimental campaigns where the HECTOR and HECTOR+ detectors have been coupled to EUROBALL and AGATA for the measurement of high and low energy gamma rays.

In his nuclear structure research activity, based on fusion-evaporation reactions, he has studied the GDR properties in hot rotating nuclei. He has studied the thermal fluctuations mechanism and he has measured the GDR width and how it depends on the excitation energy and angular momentum of the nucleus with inclusive and exclusive experiments, namely measuring, in coincidence with gamma-rays, residues, light charged particles and low energy gamma-ray multiplicity. He has measured the Giant Dipole Resonance built on a super deformed structure and measured the shape of nuclei and nuclear deformation in critical condition. He also measured (at the laboratories of Argonne in USA) the shape of ^{197}Au, at very low excitation energy and that of nuclei ^{212}Rn which survive fission. He also collaborated with the group who has measured the Jacobi shape transition in ^{46}Ti.

He studied the dynamics of the fusion mechanism through the measurement of the gamma emission produced by the dynamic dipole that is formed in fusion reactions where a strong asymmetry N / Z is present. This activity was carried out in close collaboration with the theoretical group of Catania and the HECTOR-GARFIELD arrays in Legnaro.

He recently measured the isospin symmetry breaking in N = Z nuclei and he showed that this symmetry is partially restored as the excitation energy of the nucleus increases. This study was performed through several experimental campaigns at LNL (one with the apparatus and HECTOR GARFIELD, one with the HECTOR+ and AGATA arrays and one with the GALILEO array coupled to LaBr3:Ce). The data analysis of the third campaign is still ongoing but in the previous two it was measured the coefficient of isospin mixing (α^2) in the N = Z nucleus ^{80}Zr for different excitation energies. The experimental measurement allowed to extract the a^2 mixing coefficient at zero temperature and its correction term δ_c. The latter is important in the evaluation of the corrections to be made to extract the V_{ud} term of the CKM matrix and the results were recently published on PRL and PRC.

In the nuclear structure research activity which makes use of relativistic exotic beams he has measured at the GSI laboratory in the framework of the RISING and PRESPEC experiments. In such activity he coordinated the part which concerns BaF_2 and $LaBr_3$:Ce scintillator detectors and it was possible to observe the Pygmy Dipole Resonance (PDR) in the neutron rich ^{68}Ni, ^{62,64}Fe using the virtual photon scattering technique. The campaign continued at RIKEN laboratory on ^{70}Ni,^{20}O and ^{132}Sn. Recently a campaign on the measurement of PDR in Calcium isotopes was performed using the SAMURAI setup. A second campaign, using stable beams, focused on the gamma decay of the PDR in stable nuclei (within the collaboration CAGRA) was performed at RCNP (Osaka). In the future an experimental campaign is planned for the measurement of PDR in ^{72}Ni (within the collaboration SAMURAI in RIKEN in Japan).

These studies not only have an extreme interest in the nuclear structure field but they are also important for a correct description of the nucleosynthesis process (r-process) in the supernovae explosion and for a correct understanding of the structure of nuclear stars, neutron skin and symmetry energy.

In the last years his experimental activity was focused on the study of the properties of the LaBr3:Ce and CLYC crystals. He is particularly interested in large volume crystals which have been available only since 2009 (for $LaBr_3$:Ce) and 2017 (for CLYC). Such an activity can be considered the natural evolution of the R&D work he has done with fast scintillators for high energy gamma-rays in connection with the HECTOR array. In parallel, he is also following the development, within the group of Milan, of analog and digital electronics optimized for fast scintillators as the LaBr3:Ce and BaF2 (BAF-PRO, LABR-PRO, ...) and he also collaborated in the development of an algorithm that can identify whether the incident particle is a gamma-ray, a neutron or a charged particle.

The experience achieved in the past years was used to start an activity focused to the development of alternative techniques for the measurement of the scintillation light, such as Silicon Photomultiplier (SiPM). He is also working on the properties of position sensitivity and imaging of large volume LaBr3:Ce crystals using Position Sensitive flat panel multianode PhotoMultipliers Tubes (PSPMT) and SiPM. The measurements have shown the possibility of an effective correction of the Doppler Broadening effect. He recently coordinated the construction of a PMT/SiPM test station for the direct measurement of the non-linearity induced by the voltage divider when high energy gamma rays are measured. He was also involved in the measurements of high energy gamma rays from ^{5}He to monitor D-T fusion reaction rates (in collaboration with the Plasma physics group of Bicocca he recently performed a test experiment at FNG facility of ENEA in Frascati).

His experience in radiation detection motivated the fact that he was nominated "Conveneer" of the TDR "Gamma above neutron Threshold" in the ELI-NP project. In this project, aimed at building an experimental facility for the production of a super-intense beam of gamma radiation monochromatic and polarized through the inverse Compton effect, he is coordinating the development and construction of the array ELI-GANT for the measurement of neutron and gamma radiation emitted by the decay of the giant dipole resonance.

He has published more than 340 papers in international journals
He has had more than 5500 citations (web of science data)
His h factor is equal to 36 (web of science data)

LIBRI

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Pubblicazioni su rivista

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13. 13. Probing the shape of hot 194Hg at high spins with the giant dipole resonance decay in selected cascades
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15. 15. Excited superdeformed band in 143Eu
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16. 16. The rotational gamma-continuum in the mass region A˜110
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(2016) 2014 IEEE Nuclear Science Symposium and Medical Imaging Conference, NSS/MIC 2014, art. no. 7431190, .
84. Development of a detector based on Silicon Drift Detectors and 2” lanthanum bromide scintillator for gamma-ray spectroscopy
(2016) 2014 IEEE Nuclear Science Symposium and Medical Imaging Conference, NSS/MIC 2014, art. no. 7431193, .
85. 3” × 3” LaBr3:Ce position sensitivity with multi-anode PMT readout
(2016) 2014 IEEE Nuclear Science Symposium and Medical Imaging Conference, NSS/MIC 2014, art. no. 7431199, .
86. Measurement of ß - decay continuum spectrum of 138La
(2016) 2014 IEEE Nuclear Science Symposium and Medical Imaging Conference, NSS/MIC 2014, art. no. 7431201, .
87. G-factor measurements of isomeric states in 174W
(2016) EPJ Web of Conferences, 117, art. no. 04007, .
88. Comparison of SiPM and SDD based readouts of 1? LaBr3:Ce scintillator for nuclear physics applications
(2016) 2015 IEEE Nuclear Science Symposium and Medical Imaging Conference, NSS/MIC 2015, art. no. 7581734, .
89. A 16 channels NIM module for pure LaBr3 and LaBr3-NaI phoswich detectors
(2016) 2015 IEEE Nuclear Science Symposium and Medical Imaging Conference, NSS/MIC 2015, art. no. 7581805, .
90. Development of a SiPM-based detection module for large LaBr3:Ce scintillators for nuclear physics applications
(2017) 2016 IEEE Nuclear Science Symposium, Medical Imaging Conference and Room-Temperature Semiconductor Detector Workshop, NSS/MIC/RTSD 2016, 2017-January, art. no. 8069922, .
91. High-Resolution Gamma-Ray Spectroscopy with a SiPM-Based Detection Module for 1' and 2' LaBr 3 :Ce Readout
(2018) IEEE Transactions on Nuclear Science, 65 (1), art. no. 8214215, pp. 645-655.
92. A SiPM-Based Detection Module for 2' LaBr 3 :Ce Readout for Nuclear Physics Applications
(2018) 2017 IEEE Nuclear Science Symposium and Medical Imaging Conference, NSS/MIC 2017 - Conference Proceedings, art. no. 8532888, .
93. Photoneutron measurements in the GDR region at ELI-NP
(2019) AIP Conference Proceedings, 2076, art. no. 040004, .

Seminari su Invito di Franco Camera

1. Niewodniczansky Institute of Nuclear Physics Krakow (Poland): Novembre 1992
   "The GDR decay in hot rotating nuclei"
2. Colonia 2005
   "The spin and temperature dependence of the GDR width"
3. Oslo Marzo 2012
   "Why are LaBr3 detectors the future ? "
4. RCNP - Osaka - 25 Agosto 2016
   "Measurement of isospin mixing using the gamma decay of hot GDR"

Contributi orali "su invito" di Franco Camera a conferenze/workshops

1. "The Angular Distribution of Hard Dipole Photons from hot rotating nuclei"
   Sixth International conference on nuclear reaction mechanisms - Varenna, 10-15 giugno 1991
2. "Nuclear shape and its fluctuations as probed by the GDR"
   International Conference on the Future of nuclear spectroscopy - Creta, Luglio-1993
3. "Spin and Temperature effects in the width of the GDR in hot Tin Isotopes"
   Seventh International Conference on Nuclear Reaction Mechanism - Varenna, Giugno 1993
4. "Detecting High Energy Gamma rays with HpGe Detectors"
   XXIX Zakopane School of Physics - Zakopane (Polonia) 5-15 Settembre 1994
5. "High energy gamma-rays from hot rotating nuclei"
   Specialists Meeting on Measurement, Calculation and Evaluation of Photon Production Data, Bologna 9-11 Novembre 1994
6. "High Energy gamma rays from Hot GDR : Recent developments"
   First Latin-American Workshop on " On and off γ beam Spectroscopy for the study of Heavy ion reactions and pre-equilibrium processes" Caracas - 3-8 Settembre 1995.
7. "The GDR in highly deformed nuclei"
   Copenhagen PEX Meeting Coenhaghen Giugno 1996
8. "GDR in superdeformed nuclei"
   XXX Zakopane School of Physics" - Zakopane (Polonia) Settembre 1996
9. "Studio del decadimento gamma della risonanza gigante di dipolo in nuclei caldi e rotanti mediante apparati a multirivelatori HpGe"
   LXXXII Congresso della S.I.F. - Verona Ottobre 1996
10. "High Energy gamma rays in selected cascades"
    Euroball User Meeting - Padova, Ottobre 1996
11. "GDR excited in rotating nuclei, recent developments"
    II Latino American Workshop on nuclear physics - Caracas - Settembre 1997
12. "The GDR in Hg and Eu nuclei from selected decay chains"
    Topical Conference on Giant Resonances GR98 - Varenna, Maggio 1998
13. "Segmented detectors and tracking algorithms"
    TMR user meeting - Padova 1999
14. "The GDR in superdeformed ^{143}Eu, EUROBALL results"
    Physics and Perspective using the EUROBALL spectrometer - Strasbourg 26-28 Novembre 1999
15. "The gamma-decay of the GDR and the feeding of superdeformed states in 143Eu."
    Nuclear Structure and related topics - Dubna Russia 6-10 Giogno, 2000
16. "The GDR in superdeformed nuclei and the feeding of superdeformed bands"
    International Conference on Giant Resonance GR2000 - OSAKA Giugno 2000
17. "The feeding of superdeformed configurations"
    XXXI Zakopane school of physics - Zakopane (Polonia) 5-13 Settembre 2000
18. "The GDR width at very high temperature"
    SLAFNAP-6, IGUAZU 3-7 ottobre 2005
19. "RISING Rare ISotope INvestigation at GSI"
    Nustar Meeting - GSI (De) - March 2007
20. "The giant dipole resonance, new measurements"
    workshop on Level Density in Gamma Strength in Continuum OSLO, may 21-24 2007

21. "Recent developments in $LaBr_3$ detectors for high energy gamma-rays"
    Second LEA-COLLIGA meeting - Catania - 13-16 October 2008
22. "RISING Rare ISotope INvestigation at GSI"
    Gammapool workshio - Paris - May 27th-30th 2008

23. "Prompt High Energy Dipole gamma Emission"
    fourth LEA-COLLIGA meeting - Legnaro - 18-19 November 2010
24. "Moti collettivi in nuclei esotici e a temperatura finita "
    SIF XCVI congresso Nazionale - Bologna 20-24 Settembre 2010
25. "Prompt High Energy Dipole gamma Emission"
    Extreme of the Nuclear Landscape - Zakopane (Pl) 30/8 - 5/8 2010
26. "Nuclei far from stability"
    XLVIII International Winter Meeting on Nuclear Physics in Memoriam of Ileana Iori 25-29 January 2010
27. "Status and perspectives of detector arrays of LaBr"
    EGAN 2011 Padova - 26-30 June 2011
28. "HECTOR and HECTOR^{+} Array"
    11th AGATA Week Darmstadt (De) 6th- 9th September 2011
29. "Symmetry Energy from Pigmy Dipole and Giant Resonances"
    International Symposium on Nuclear Symmetry Energy - Northampton (USA) - 17-20 June 2011
30. "R&D on large volume LaBr3:Ce detectors"
    The SHOGUN gamma-ray spectrometer - RIKEN (Jp) 4-5 February 2011
31. " Gamma spectroscopy of GDR and isospin mixing in ^{80}Zr"
    COMEX 4 - Collective Motion in Nuclei under extreme conditions - Kanagawa - 22-26 October 2012
32. "Developments and future perspectives of coupling HPGe arrays with scintillators "
    EGAN 2012 - II Workshop of the European Gamma and Ancillary Detectors Network - Orsay 25-27 June 2012
33. "Nuclear Spectroscopy with $LaBr_3$:Ce detectors at ELI-NP"
    EUROPEAN PROPOSAL FOR ELI-NP GAMMA SOURCE: THE MACHINE AND THE EXPERIMENTS
    Milano, palazzo delle stelline 14-16 June 2012
34. "Measurements of high energy gamma rays from collective states"
    Experimental Programme Workshop at ELI-NP 3-5 October 2012 Magurele (Ro)
35. Position sensitivity in continuous large volume LaBr3
    ENSAR INDESYS Meeting - Bormio - 22 February 2012
36. Isospin mixing at finite temperature (in ^{80}Zr)
    EURISOL User Group Topical Meeting 2013 - Krakow 1-3 July 2013
37. Nuclear Spectroscopy with LaBr3:Ce detectors at ELI-NP
    Towards TDR of experiments with intense laser beams at ELI-NP - 27-28 June 2013
38. Pygmy Dipole Resonance in ^{64}Fe
    3rd EGAN workshop 13 - Liverpool 24th-27th June 2013
39. Isospin mixing at finite temperature in ^{80}Zr
    3rd EGAN workshop 13 - Liverpool 24th-27th June 2013
40. Characterization of Large Volume 3.5" x 8" $LaBr_3$:Ce Detectors for the HECTOR^{+} array
    INPC 2013 - Firenze 2-7 June 2013
41. New scintillator materials for future and present facilities
    CARPATHIAN SUMMER SCHOOL OF PHYSICS 2014 - SINAIA (Romania) July 13-26 2014
42. Gamma above n threshold
    Extreme Light Infrastructure – Nuclear Physics (ELI-NP) - Phase I - Magurele (Romania) March 2014
43. Hot and cold GDR-PDR g-decay measurements with scintillators
    Physics with large arrays of novel scintillators - Dublino (Ir) - January 2014
44. TDR3 Working Group ELI-GANT
    Nuclear Physics (ELI-NP) - Phase I Workshop TDR - Final – Feb. 18 - 20 , 2015
45. Gamma above n threshold
    Gamma above neutron threshold: Implementation of Day-One Experiments Magurele (Ro) Oct. 28-29, 2015
46. GDR at finite temperature for isospin mixing measurements
    Extremes of Nuclear Landscapes - Zakopane - (Pl) 28-Aug - 3 Sept 2016
47. Measurement of collective states with scintillators
    Application of Novel Scintillators for Research and Industry (Dublino) 11-13 May 2016
48. Gamma decay of 'hot' Giant and 'cold' Pygmy Dipole Resonance
    8th Japan-Italy Symposium - Tokyo - 7-10 March 2016
49. Science perspectives on gamma above threshold experiments at ELI-NP
    Photonics 2016 Monterey USA 16-21 October 2016
50. Response of a large $LaBr_3$:Ce detector to 6-38 MeV gamma-rays and new scintillator crystals
    NUSPIN 26-29 Giugno 2017
51. Instrumentation and Physics Cases for EURISOL- DF Scintillators
    Eurisol conference Lisbona 15-16 Novembre 2017
52. WP9 – JRA1 - PASPAG
    Ensar Town Meeting, Groeningen, 17-29 Aprile 2018

53. *Photonuclear studies with gamma beams*
    Nuclear Photonics, Brasov Romania 24-29 Giugno 2018
54. *Isospin mixing studied via GDR*
    COMEX6 (6th International Conference on Collective Motion in Nuclei under Extreme Condtions)
    29 Ottobre – 2 Novembre 2018 Cape Town
55. *New scintillator materials for present and future experiments*
    Nucleus – Nucleus Collision 4-8 Dicembre 2018 Saitama (Giappone)
56. *Spettroscopia gamma e struttura nucleare*
    SIF 2019 – L'Aquila 23-27 Settembre 2019 L'AQUILA
57. *Selected applications based on recent detectors developments*
    Workshop bilaterale Italia-Israele 5-6 Novembre 2019

Contributi orali di Franco Camera a conferenze/workshops

1. "High Energy □-ray emission in hot nuclei"
   "L.N.L. Meeting on Alpi Physics" Laboratori Nazionali di Legnaro 11-12 Dicembre 1990
2. "Angular Anisotropy fron the □-decay of the GDR and Thermal Fluctuations"
   School on New Experimental Techniques in γ-Ray spectroscopy - Copenhagen, 21-31 Maggio 1991
3. "Exclusive technique in the measurement of gamma decay of Giant Dipole Resonance"
   13th Int. School of Nuclear Physics on 4π High Resolution γ-ray spectroscopy - Erice, Settembre 1991
4. "The Angular Anisotropy of GDR in $^{110-109}$Sn"
   School on Hands-on Nuclear Structure Theory for Experimentalist - Copenhagen 14-26 May 1992
5. "La Risonanza Gigante di Dipolo e la forma dei Nuclei"
   LXXVIII Congresso Nazionale della S.I.F. - Pavia, 5-10 Ottobre 1992
6. "The GDR and the nuclear deformation, how are they connected ?"
   3th Int. School of Nuclear Physics on "Probing the Nuclear Paradigm - Erice, Settembre 1993
7. "Pulse distributions in segmented detectors and □-ray tracking"
   workshop on tracking - Lowell (USA) 23-24 June 2001
8. "EUROBALL, five years of experiments and future perspectives"
   4th Italy-Japan Symposium on Heavy Ion Physics (Tokyo - 24-30 Settembre 2001)
9. "High energy g from very symmetric reactions Giant Dipole Resonance in warm 179Au "
   Frontiers on Nuclear structure July 2002 Berkley (USA)
10. " The Giant Dipole Resonance at high and low excitation energy " relazione presso
    International Conference on the labyrinth in Nuclear Structure Creta13-19 July 2002
11. "AGATA the segmented tracking array for gamma spectroscopy"
    Workshop sullo spettrometro Magnex - Catania Marzo 2003
12. "Giant Resonance in exotic Nuclei'
    Intellectual Challenges of SPIRAL 2 and Future Facilities at GANIL 1-2 April Ganil 2004
13. "GDR in hot nuclei: new measurement and perspectives"
    Atomic nuclei at extreme values of temperature, spin and isospin" Zakopane (Poland) september 2004
14. " AGATA, the European segmented tracking array"
    SLAFNAP-6, IGUAZU 3-7 ottobre 2005
15. " Progress in the study of the gamma-decay of the Giant Dipole Resonance in hot rotating nuclei"
    COMEX-2 (20 - 23 Jun 2006), St. Goar, (De)
16. "Search of Pygmy Dipole Resonance in exotic ^{68}Ni RISING EXPERIMENT
    INPC-2007 - Tokyo - June 2007
17. "Tests of $LaBr_3$ Scintillators"
    GAMMA meeting at Camerino October 2007
18. "Rising - Recent situation"
    GAMMA meeting at Camerino October 2007
19. "PARIS and AGATA"
    AGATA week 11-15 Settembre 2017
20. "PARIS@LNL/SPES"
    Paris Collaboration Council – Varsavia – 25 Gennaio 2018
21. "Novel scintilators for gamma spectroscopy"
    Paris Collaboration Council – Varsavia – 25 Gennaio 2018