



Dario Barberis

- 1980-2000: work on photoproduction and hadroproduction of particles containing heavy quarks (first c , then b)
- 1996-now: work on the ATLAS experiment at LHC:
 - **Previously:**
 - Pixel detector layout
 - Tracking software
 - Computing coordination
 - Database coordination
 - Search for rare B-meson decays
 - **Currently:**
 - Distributed computing monitoring
 - EventIndex design and implementation
 - Search for R-parity violating decays of supersymmetric particles
 - Search for other exotic highly ionizing particles



Carlo Mancini

carlo.mancini.terracciano@roma1.infn.it

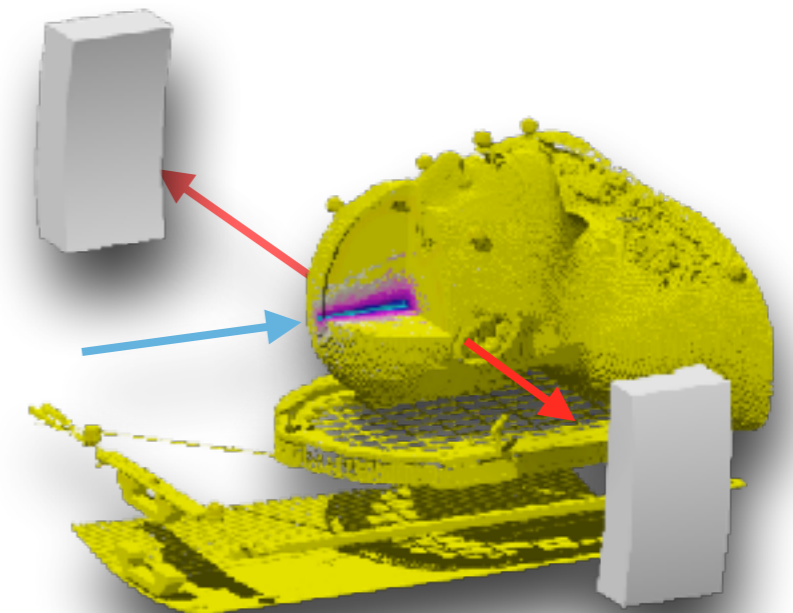


Member of the Geant4 collaboration



I mainly worked on Monte Carlo simulation for Nuclear Physics Medical Applications

- 2011 Master degree in neutrino physics at the University of Rome
- 2012-2015 PhD and Fellow at CERN
 - development of FLUKA (Monte Carlo program) nuclear reaction models
 - collaboration with iThemba LABS for ^{12}C fragmentation measures
- 2015-2016 Postdoc at the University of Rome
 - R&D of detectors for medical applications
- since 2017 Postdoc at INFN
 - development of Geant4 nuclear reaction models

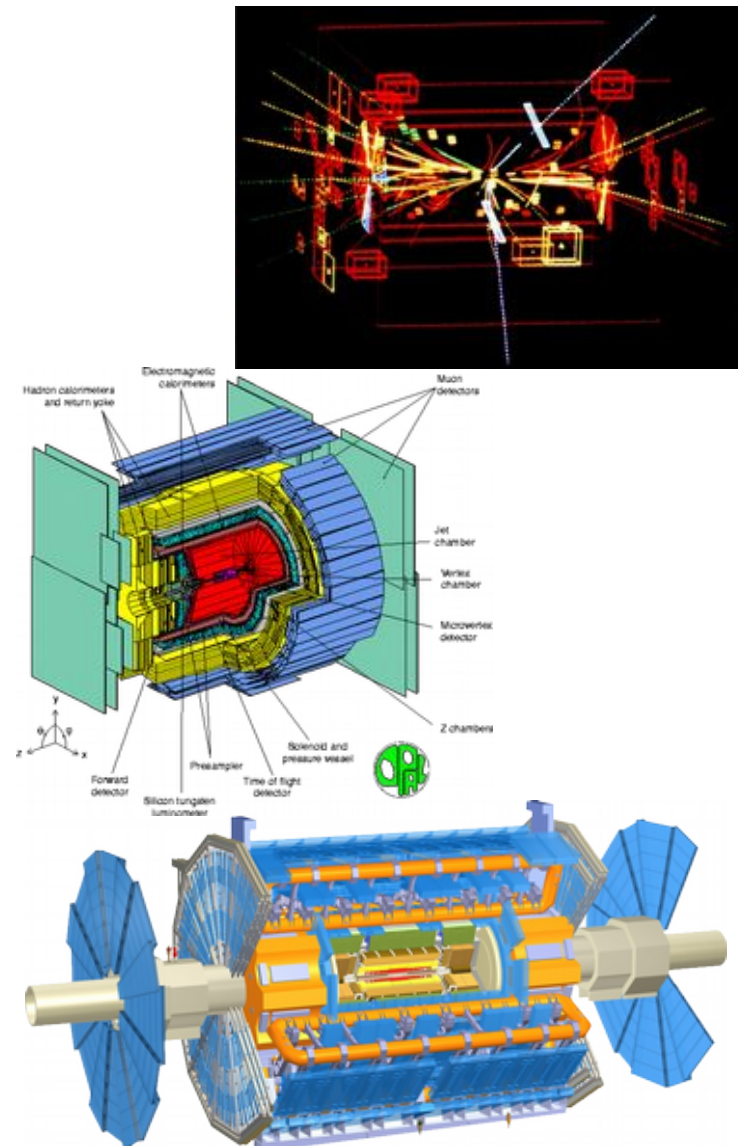


for more info about my work: <http://www.roma1.infn.it/~mancini/>

Dave Charlton

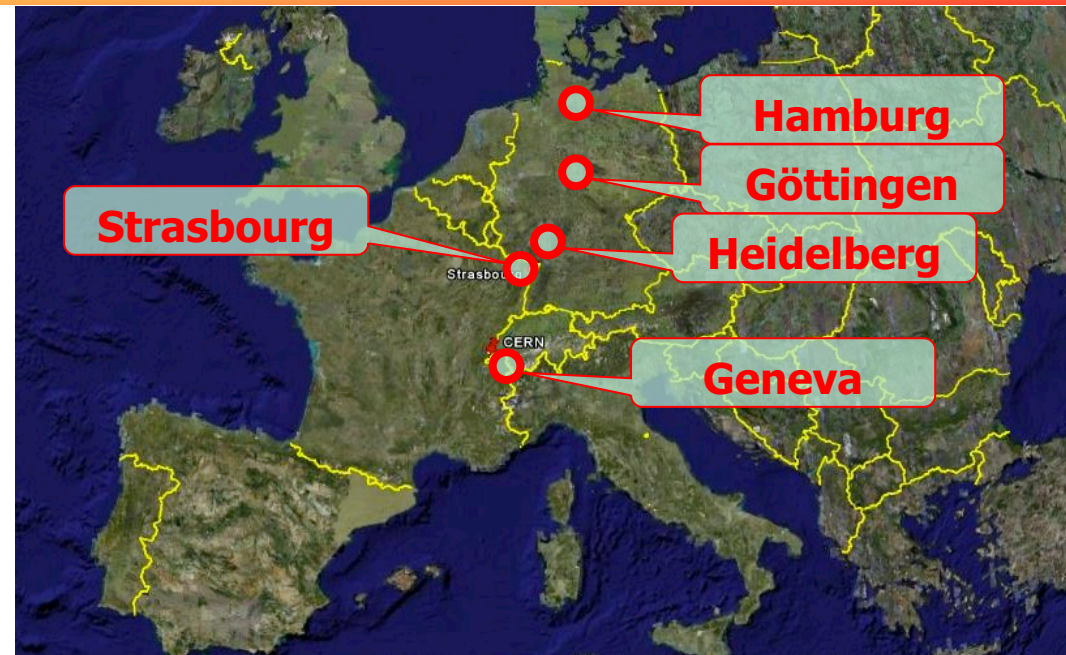
About me:

- PhD student on UA1 experiment 1985-1988 (search for the top quark)
- Moved at start of 1989 to OPAL experiment at LEP, stayed to the end (2000) - electroweak physics with Z and W bosons
- Since 1998, ATLAS experiment at the LHC at CERN
 - Spokesperson (Head) of ATLAS 2013-2017
 - Previously deputy Spokesperson (2009-2013), Physics Coordinator (2008-2009)
 - Worked on calorimeter triggering, silicon tracker construction, analysis of multi-boson production
- Poynting Professor of Physics at the University of Birmingham in the UK since 2017 (I've been with Birmingham since 1994, professor since 2005)



Who am I?

Ulrich Goerlach



- Born in Göttingen, Germany
- Physics (and Math) studies at the Universities Göttingen and Heidelberg
- Diploma (now Master) and PhD at the Max Planck Institute for Nuclear Physics in Heidelberg
- Post-doc (particle physics) at CERN, Geneva
- Researcher at University Heidelberg
- Researcher(staff) at CERN Geneva
- Researcher(staff) at DESY, Hamburg
- University Professor at the Unistra, (Université de Strasbourg)

Latifa Elouadrhiri

Introduction My Journey

- Born in **Meknes, Morocco** 
- Master degree **Rabat Morocco**
- PhD in **France (CEA/Saclay)** 
- Post-doc **USA (Massachusetts)**
- CENRS France**
- Staff Scientist **USA (Jefferson Lab, Virginia)** 



Physicist, diversity advocate, music lover. Interested in history, philosophy, cuisine and interior design. Ex volley ball player. @latifaelou



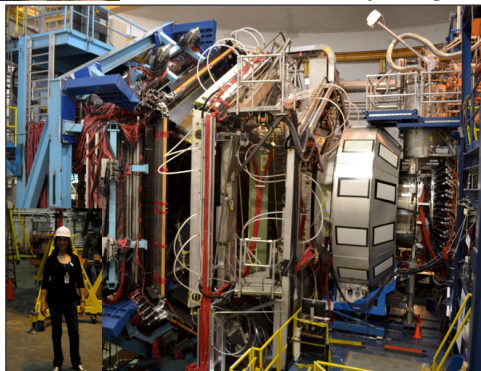
Scientist, Project Leader and Educator



Spokesperson of major science program to study the nucleon (proton & neutron) "tomography" at Jefferson Lab.

Leader of the construction of state of the art **CEBAF Large Acceptance Spectrometer CLAS12** as part of Jefferson Lab 12 GeV Upgrade Successfully completed on budget and on schedule

Advocate for diversity and growth of world-class research and education



Jefferson Lab & its upgrade provides a unique opportunity for the nuclear physics community to expand its reaches into unknown scientific areas. For the first time, researchers will be able to probe the quark and gluon structure of strongly interacting systems. Jefferson Lab at 12 GeV will make profound contributions to the study of hadronic matter - the matter that makes up everything in the world.



Started in 2009

MY Outreach Activities



Started in 2010



Started in 2015

Your Lecturer



Eilam Gross

Professor of Physics
Department of Particle Physics and Astrophysics
Weizmann Institute of Physics
Eilam.Work@gmail.com
Eilam.gross@weizmann.ac.il

My research:

Search for (yet undiscovered) Higgs decaying to Charm Quarks and tagging heavy quark flavors (in particular Charm).



- 80s-90s: CERN, LEP
OPAL Higgs Convener
- 2000s : TESLA
LC WS Higgs Convener
- 2010s. : ATLAS, LHC
Statistics Convener
Higgs Convener (2012)
LHC Higgs Combination
Convener
- Present. :
Charm Physics and ML



Let me introduce myself

Gopolang Mohlabeng

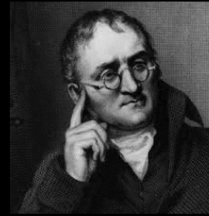
I come from South Africa



Super Short CV

- Undergraduate in Physics, University of Pretoria, SA(2009)
- Honors degree, astrophysics and space science with the NASSP program, University of Cape Town, SA (2010)
- Masters M.Sc. in Physics, University of Kansas, USA (2013)
- Ph.D in Physics, University of Kansas, USA, (2017)
- Postdoctoral Research Associate, Brookhaven National Lab (current)

In high School I did a research project on physicists and chemists in the 1800's and 1900's



John Dalton



JJ Thompson

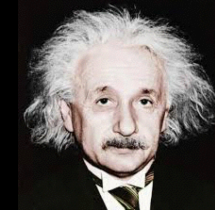


Niels Bohr

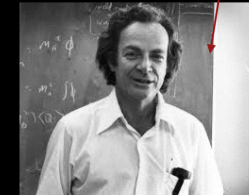
Father of Quantum Field Theory



Erwin Schrodinger



Albert Einstein



Richard Feynman

Field of Research

- Theoretical Particle Physics

High Energy Colliders physics

Low Energy precision physics

- Astro-Particle Physics

Dark Matter Physics:

Direct Detection

Low mass dark matter searches

Short CV of Dr. Marco Silari

Dr. Marco Silari graduated in physics in 1982 and obtained a PhD in medical physics in 1985 at the University of Milano. From 1984 to 1995 he was researcher with the Italian National Research Council (CNR) in Milano. He spent the first two years of this period as visiting scientist at the MRC (Medical Research Council) Cyclotron Unit at the Hammersmith Hospital in London (UK), where he worked on the installation of a 40 MeV proton medical cyclotron. From 1987 to 1991 Dr. Silari carried out research work on applied nuclear and radiation physics. From 1991 to 1995 he worked with Prof. Ugo Amaldi on the Italian Hadrontherapy Project, where he was project leader for the feasibility study of the National Centre for Oncological Hadrontherapy (CNAO), which in 2011 started patient treatments in Pavia, near Milano. He was part-time Scientific Associate at CERN from September 1994 to October 1995. He is CERN staff member since 1996, senior physicist since 2001 and holds a diplomatic status since 2015. He was responsible for radiation protection around the SPS, PS and LEP accelerators, for radiation protection of LEP decommissioning and has been involved with radiation protection studies of the LHC experiments and for future CERN accelerators. Within the Radiation Protection group he is now responsible for special projects, which include detector R&D and radiological characterization of materials. He has been scientist-in-charge of the EU Marie Curie projects RADENV (2006-2009) on accelerator radiation protection and ARDENT (2012-2016) on advanced radiation dosimetry. ARDENT involved 14 institutes, universities and private companies worldwide with CERN as coordinator. He is member of two working groups of the EURADOS (European Dosimetry Group). Throughout the years, Dr. Silari has maintained a keen interest in Medical Physics and an academic interest as supervisor of many master and PhD students. He has taught for 13 years at the PhD School of Medical Physics in Milano, he is member of the Scientific Committee of the master in Nuclear and Ionizing Radiation Technologies (NIRT) of the University Institute of Advanced Studies of Pavia. He is author of more than 190 scientific publications and holds two patents.

Horst Severini
<hs@nhn.ou.edu>

Horst Severini is a research scientist at the University of Oklahoma (OU) in High Energy Physics.

He works on the ATLAS experiment and is in charge of operating the Tier2 computing facilities at OU.

He is also an Associate Director at the OU Supercomputing Center, where he is in charge of distributed computing, and also a research computing facilitator.

David Bertsche
<david.bertsche@desy.de>

Website: davidbertsche.com

Steve Muanza's Personal Informations ([Links are clickable](#))

Curriculum Vitae

[Version in English](#)
[Version in French](#)

Website

[Personal Homepage](#)

Life and ramblings of Mario Campanelli

1995 master in Rome L3



95-98 PhD ETH Zurich L3



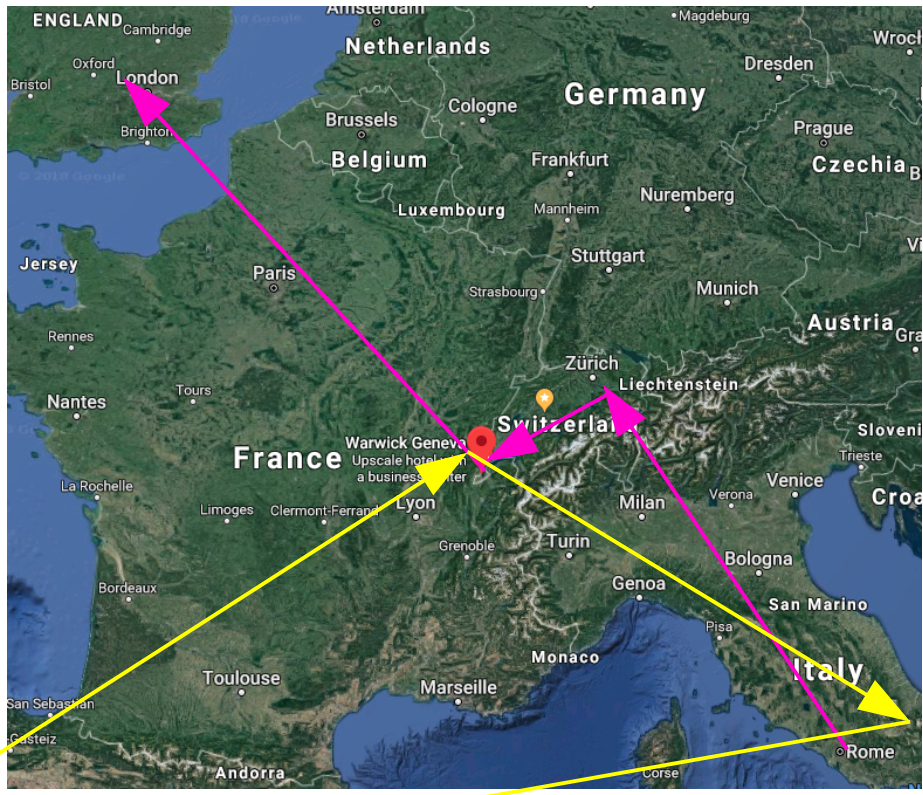
98-2001 ETHZ Icarus



2001-07 Geneva University CDF



07- UC London Atlas



CURRICULUM VITAE - JONATHAN (JOHN) R. ELLIS

Birth date: 1 July 1946
Place: London, England

Education

Secondary : September 1958 - April 1964 Highgate School, Highgate, London, N6

University : October 1964 - September 1971 King's College, Cambridge
October 1968 - September 1971 DAMTP, Cambridge

Examinations and Degrees

1967 - B.A. in Mathematics, University of Cambridge
1971 - Ph.D. in Theoretical High Energy Physics, University of Cambridge

Research experience

Oct 1968 - Sep 1970 - Research student in DAMTP, Cambridge
Sep 1970 - Aug 1971 - Visiting Scientist at CERN, Geneva
Sep 1971 - Aug 1972 - Research Associate at SLAC, Stanford
Sep 1972 - Aug 1973 - Richard Chace Tolman Research Fellow in
Theoretical Physics, Caltech, Pasadena
Sep 1973 - Aug 1974 - Research Fellow at CERN, Geneva
Sep 1974 - July 2011 - Staff Member at CERN, Geneva
Jun 1978 - July 2011 - Indefinite Contract at CERN, Geneva
Aug 2011 onwards - Emeritus at CERN, Geneva
Sep 2010 onwards - Clerk Maxwell Professor of Theoretical Physics, Physics
Department, King's College London

Other positions held

1971 - 1973 - Junior Research Fellow, King's College, Cambridge
1978 - Visiting Fellow, King's College, Cambridge
1978 - Visiting Professor, SLAC, Stanford
1982 - Visiting Fellow, All Souls' College, Cambridge
1982 - 1983 - Visiting Professor, SLAC, Stanford
1987 - Visiting Scientist, SLAC, Stanford
1988 - Miller Professor, Univ. of California, Berkeley
1979 - 1982
and - Deputy Division Leader, TH Division, CERN
1984 -1987
1988 - 1994 - Division Leader, TH Division, CERN
1994 - Visiting Scientist, SLAC and Physics Department, Stanford
1996 - University of California and Lawrence Berkeley Laboratory, Berkeley
1997 - Visiting Professor, University of Melbourne
1998 - 1999 - Schrödinger Professor, University of Vienna
1999 - 2011 - Adviser to CERN Directors-General for relations with Non-Member States

- 2004 - 2007 - Member of the Council of PPARC, the UK funding agency for particle physics, astronomy and space science
- 2005 - 2010 - Visiting Professor, King's College London
- 2006 - now - Visiting Professor, University College London
- 2006 - 2007 - Member of the Science Committee of PPARC (UK)
- 2007 - 2010 - Member of the Science Board of STFC (UK)
- 2010 - now - Visiting Professor, Imperial College London
- 2011 - 2016 - ERC Advanced Investigator Grant
- 2013 - now - Visiting Professor, Hong Kong University of Science and Technology
- 2017 - now - Estonian Mobilitas Pluss Top Researcher Grant
- 2017 - now - Distinguished Visiting fellow, TD Lee Institute, Shanghai

Honours

- 1982 - Maxwell Medal of the Institute of Physics
- 1985 - Elected Fellow of the Royal Society
- 1991 - Elected Fellow of the Institute of Physics
- 1994 - Honorary Doctorate from the University of Southampton
- 1999 - First Award in the Gravity Research Foundation essay competition
- 2005 - Dirac Medal and Prize of the Institute of Physics
- 2005 - First Award in the Gravity Research Foundation essay competition
- 2006 - Honorary Fellow, King's College Cambridge
- 2009 - Honorary Doctorate from the University of Uppsala
- 2010 - Honorary Fellow of the Serbian Physical Society
- 2011 - ERC Advanced Investigator Grant
- 2012 - Honorary Doctorate from the St Kliment Ohridski University, Bitola, Macedonia
- 2012 - Honorary Doctorate from the Ukrainian Academy of Sciences
- 2012 - Appointed Commander of the British Empire (CBE)
- 2012 - Honorary Doctorate from the University of Cape Town
- 2014 - Fellow of King's College London
- 2015 - Bakerian Lecture and Prize, Royal Society
- 2015 - Honorary Doctorate from the University of Ioannina, Greece
- 2015 - Elected Foreign Fellow of the Indian National Science Academy
- 2015 - Elected Foreign Member of the Estonian Academy of Sciences
- 2016 - Honorary Doctorate from the University of Patras, Greece
- 2017 - Honorary Doctorate from the University of Belgrade, Serbia

Scientific work

I am a theoretical physicist with research interests in particle physics, astrophysics, cosmology and quantum gravity. The discovery of the gluon by experimental teams at DESY in 1979 was based on an idea that I published in a paper in 1976 and suggested to them. In 1977 I used a grand unified theory to predict the mass of the bottom quark, in 1989 I used precision electroweak data to predict the mass of the top quark, in 1990 I initiated the use of these data to predict the mass of the Higgs boson, and in 1991 I calculated its mass in a supersymmetric theory. I have pioneered phenomenological studies of CP violation and the Higgs boson (1976), grand unified theories (1977 and 1978), supersymmetry and dark matter (1983), string models (1988) and quantum gravity (1997). Many of my recent papers (2011-2013) have been on the interpretation of the LHC Higgs candidate, and one was the first reference in the citation for the award of the 2013 Nobel Prize in Physics by the Swedish Academy. In 1995 I suggested searching for a radioactive isotope signature of a nearby supernova

explosion, which has subsequently been measured in many experiments between 1999 and 2016.

Most of my research work has been directly related to experiment, and I frequently co-author scientific papers with experimental authors. Much of my research work also concerns the prospects for future accelerators such as LEP, the LHC and beyond. I have been a frequent contributor to studies of their physics capabilities, writing the first survey of possible LEP physics in 1976, making the first survey of possible beyond the Standard Model physics at the LHC in 1984, coordinating initial studies of CLIC physics, and now studies of Future Circular Colliders. I was one of the first particle physicists to explore the interface between particle physics and cosmology, which continues to be one of my active research interests.

I am the author of over 1000 scientific papers, with a total of over 60,000 citations in the Inspire high-energy physics database, including 4 papers with over 1000 citations, 15 more papers with over 500 citations and 180 other papers with over 100 citations, for an h-index of 139.

International scientific relations

As advisor to CERN Directors-General for relations with Non-Member States from 1999 to 2011, I had frequent dealings in major partner countries such as the US, Russia, Japan, Canada, India and China. I have also dealt with other partners such as Mexico, Estonia, Pakistan, Iran, South Africa, Israel, Romania, Slovenia, Turkey, New Zealand, Lithuania, Serbia, Algeria, Egypt, Morocco, Madagascar, Qatar, the United Arab Emirates, Saudi Arabia, South Africa, Ukraine, Sri Lanka, Chile, Argentina, Colombia, Azerbaijan, Armenia, Tunisia, Macedonia and Malta.



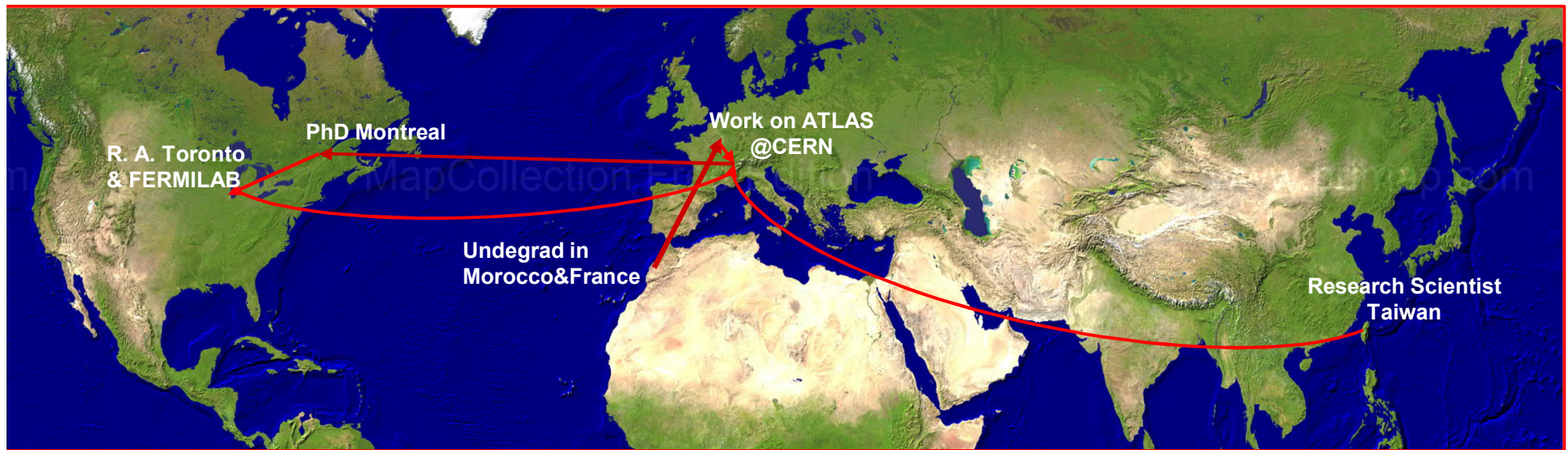
Luca Serafini
luca.serafini@mi.infn.it



**Specialist in High Brightness Particle Beams
Advanced Radiation Sources
(Free Electron Lasers, Compton)
High Gradient / Plasma Accelerators**

- Research Director at INFN-Milan
- associated with INFN-LNF on SPARC-LAB and EupraXia
- Scientific Director of EuroGammaS (ELI-NP-GBS)
- INFN Project leader of STAR
- Scientific Coordinator of MariX-CDR
- Faculty of INFN-LaSapienza PhD School on Acc. Phys.
- Former visiting professor at UCLA

Rachid Mazini



🐾 From 1999-now

- 🐾 Work on the ATLAS Experiment on the LHC @CERN as a student, Reserach Associate then a Reseacrh Scientist.
- 🐾 Involded in Liquid Argon Calorimeter construction and operations
- 🐾 Software development for jets and E_T^{miss} reconstruction
- 🐾 Higgs physics, SM measurements, Dark Matter searches
- 🐾 More recently, Timing Detectorr (HGTD) for the ATLAS upgrade for HL-LHC

🐾 2003-2005. CDF parenthesis.

- 🐾 Monte Carlo simulation and SM measuremnts



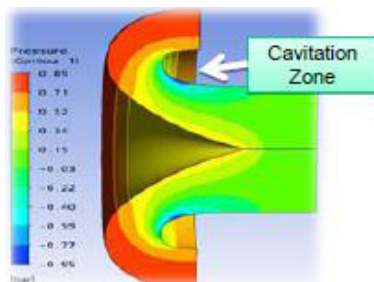
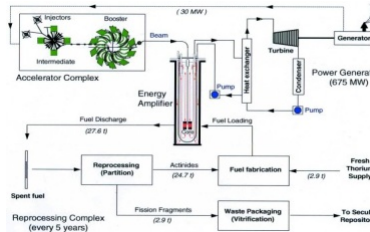
Yacine Kadi

Senior Physicist, Engineering Department, European Organization for Nuclear Research, CERN, Geneva, Switzerland
 Professor, Department of Energy Science, Sungkyunkwan University, Suwon, Korea. (<http://does.skku.edu>)

PhD: University of Provence, Marseille, France (1995)
 M.Eng. Ecole Nationale Supérieure de Physique France (1991)
 B.S. Victoria University of Manchester, United Kingdom (1990)

Email: yacine.kadi@cern.ch;
 Tel: +41-75-411-0269

- Nuclear Energy Technology
- Experimental Nuclear Physics
- Accelerator Technology
- Radioactive Ion Beam Facilities



Nuclear Energy Technology

Design of Energy Amplifier Systems
 Thorium based fuel cycles to constrain plutonium and reduce the long-term nuclear waste toxicity
 Partitioning and Transmutation of nuclear waste
 MonteCarlo code development

Experimental Nuclear Physics

Neutron induced cross section measurements at nTOF
 Transmutation by adiabatic resonance crossing (TARC)
 Proton induced reactions for medical radio-isotopes
 Neutron detector development

Accelerator Technology

Application of high power accelerators in fundamental research, nuclear power generation, industrial and medical fields
 Design of high power targets and spallation neutron sources

Radioactive Ion Beam Facilities

HIE-ISOLDE project
 EURISOL Design Study

“Conceptual Design of a Fast Neutron Operated High Power Energy Amplifier”, IAEA-TECDOC-985, November 1997.

“Design of an accelerator-driven system for the destruction of nuclear waste”, ICTP Text book, pp 79-132, ISBN 92-95003-17-9, Trieste, Italy, 2002.

“Energy Amplifying Systems: Simulation and Experiments”, Nuclear Instruments and Methods in Physics Research A 562 (2006) 573-577.

“New Neutron Detector Based on Micromegas Technology for ADS”, Nuclear Instruments and Methods in Physics Research A 562 (2006) 755-759.

“The n_TOF Total Absorption Calorimeter for neutron capture measurements at CERN”, Nuclear Instruments and Methods in Physics Research A 608 (2009) 424-433.

“High-accuracy $^{233}\text{U}(n, f)$ cross-section measurement at the white-neutron source n_TOF from near-thermal to 1 MeV neutron energy”, Physical Review C 80, 044604 (2009).

“Beam Cooling with Ionization Losses”, Nuclear Instruments and Methods in Physics Research A 568 (2006) 475-487.

“EURISOL High Power Targets”, Nuclear Physics News, Vol. 18, Issue 3, July (2008) 19-25.

“Measurement and analysis of turbulent liquid metal flow in a High-Power Spallation Neutron Source - EURISOL”, Nuclear Instruments and Methods in Physics Research A (2011).