MASSIMO CARPINELLI

EDUCATION

Born 29/04/1964 in Benevento
Ph.D. in Physics from University of Pisa, granted 1992. Thesis Topic:B0,B+ meson lifetime measurement with the ALPEH detector.

ACADEMIC CAREER

2006-present	**Professor**, University of Sassari.
2001-2006	**Associate Professor,** University of Pisa.
1994-2001	**Assistant Professor,** University of Pisa.
1992-1994	**Post Doctoral Fellowship**, Istituto Nazionale Fisica Nucleare.

RECENT UNIVERSITY AND PROFESSIONAL SERVICE

2014 - present	**President,** University of Sassari.
2011-2014	**Chair** "Commissione Scientifica Nazionale V"-CSN5 (INFN Board for Technology Research). The CSN5 activity involves more than 480 FTEs; the CSN5 budget is 5 Million of Euros/year. The CSN5 physicists have published more than 300 (ISI) papers/year
2010 - 2012	**Dean**, Faculty of Mathematics,Physics and Natural Science; University of Sassari.
2007 - 2011	**Member of the Board of Director** of the CyberSar consortium, (INFN,INAF,CRS4,University of Sassari and University of Cagliari); consortium for supercomputing, computational modeling and management of large database.
2007 - 2009	**Chair,** Department of Mathematics and Physics; University of Sassari.

RESEARCH EXPERIENCE

2013-Present	**HPS Experiment at Jefferson Lab** The experiment is aimed at discovering a hidden-sector, heavy photon. Such a particle would have mass in the range 0.01 to 1.0 GeV. Heavy photons are possible candidate as dark matter. Design and construction of the electromagnetic calorimeter
2011-2013	**FIRST (Fragmentation of Ions Relevant for Space and Therapy experiment at GSI)** Design and construction of the detector for the measurement of the 12C beam fragmentation cross section, relevant for the application to hadrontherapy
2009-2012	**Advanced Imaging with Inverse Compton Scattering at the BNL Accelerator Test Facility.** (INFN,BNL,UCLA,University of Sassari collaboration) Co-spokesperon of the experiment. The experiment seeks to exploit the unique capabilities of ultra-fast inverse Compton scattering sources for advanced applications in imaging. Design of the experiment, Data Taking, Phase contrast analysis.
1994-present	**BaBar Experiment at SLAC** Proponent with the INFN Pisa group of the BaBar experiment at PEPII (CP Violation, flavor physics). Design, Construction and Operation of the BaBar Silicon Vertex Detector. Construction of the Instrumented Flux Return Detector. BaBar Physics Book: analysis of charged B-meson decays, analysis of neutral B meson decaying in two pions. Coordination of the Vertexing and Composition Tools working group. Contribution to the following analysis: CP violation in B-physics; analysis of the D0K dalitz decay of B mesons.
1989-1998	**Aleph Experiment at CERN LEP** Construction, Operation and Alignment of the Aleph Silicon Vertex Detector. Analysis of data related to vertex detector and tracking system: tau lifetime, b physics, R_b, neutral and charged B meson lifetime
1988-1991	**SLD Experiment at SLAC SLC** Design, Construction and test of the front-end electronic and of the Fastbus readout and trigger module of the SLD-WIC

Teaching Experience

According to the italian law, I taught at the undergraduate, graduate and Ph.D. level, starting 1994 to present. I taught Classical Mechanics at the undergraduate level, Electronics at the graduate level, Experimental Particle Physics at the graduate and Ph.D. level

BIBLIOMETRIC INDICATORS (JAN 2016)

Source SCOPUS: Co-author of 810 scientific articles on refereed journal; total number of citations 20338; h-index 63
Source INSPIRE: Co-author of 790 scientific articles on refereed journal; total number of citations 45409; h(hep)-index 101.

Selection of Papers (one per topics/projects)

1) The design, construction and performance of the ALEPH silicon vertex detector
Mours, B et al.
Nucl. Instrum. Meth. A379 (1996) 101-115

2) Measurement of the B-hadrons lifetimes
Buskulic, D et al. (ALEPH Collaboration)
PHYSICS LETTERS B Volume: 257 Issue: 3-4 Pages: 492--504 MAR 28 1991

3) A precise measurement of the tau-lepton lifetime
Buskulic, D et al. (ALEPH Collaboration)
PHYSICS LETTERS B Volume: 297 Issue: 3-4 Pages: 432-448 DEC 31 1992

4) Measurement of the B0 and anti B0 meson lifetimes
Buskulic, D et al. (ALEPH Collaboration)
PHYSICS LETTERS B Volume: 307 Issue: 1-2 Pages: 194-208 JUN 10 1993

5) The BaBar silicon-vertex tracker: Performance, running experience, and radiation-damage studies
Re, V et al.
IEEE TRANSACTIONS ON NUCLEAR SCIENCE Volume: 49 Issue: 6 Pages: 3284-3289 DOI: 10.1109/TNS.2002.806170

6) The BABAR Physics Book: Physics at an Asymmetric B Factory
SLAC Report SLAC-R-504

7) Observation of CP violation in the B0 meson system
BABAR Collaboration (Bernard Aubert et al.).
Phys.Rev.Lett. 87 (2001) 091801.

8) Measurement of the Cabibbo-Kobayashi-Maskawa angle gamma in B--/+->(DK -/+)-K-(*) decays with a Dalitz analysis of D -> K-S(0)pi(-)pi(+)
BABAR Collaboration (Bernard Aubert et al.)
Phys.Rev.Lett. 95 (2005) 121802.

9) Performance of second generation BABAR resistive plate chambers

Anulli, F et al.
Nucl. Instrum. Meth. A552 (2005) 276-291

10) BABAR Analysis Document #102,
February 7, 2005
The BaBar Vertexing

11) Quantitative evaluation of single-shot inline phase contrast imaging using an inverse compton x-ray source
Oliva, P et al.
APPLIED PHYSICS LETTERS Volume: 97 Issue: 13 (2010)

12) The FIRST experiment at GSI
Pleskac, R et al.
Nucl. Instrum. Meth. A678 (2012) 130-138