

Claudio Giganti

PERSONAL DETAILS

Laboratoire de Physique Nucleaire
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Sorbonne Université
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Birth January 8, 1984
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CURRENT POSITION

CNRS Chargé de Recherche 2012-present
LPNHE Paris - Laboratoire de Physique Nucleaire et de Hautes Energies

DIPLOMA

HDR – Habilitation à diriger des recherches 2016
University of Pierre et Marie Curie, Paris VI
Thesis: The quest for CP violation with the T2K experiment.

Ph.D. in Physics 2010
University of Paris Sud XI
Thesis: The Particle Identification in the T2K TPCs and measurement of the electron neutrino component in the T2K beam.
Supervisor: Dr. Marco Zito

Magister Degree in Physics 2007
University of Rome La Sapienza
Thesis: The Electromagnetic Calorimeter of the SciBooNE experiment for the measurement of neutrino cross-sections
Supervisor: Dr. Lucio Ludovici

PREVIOUS EXPERIENCE

Post doctoral fellow on the T2K experiment 2010-2011
IFAE, Barcelone

PhD student on the T2K experiment 2007-2010
IRFU/SPP, Saclay

RESEARCH ACTIVITIES

T2K experiment 2007 - present

- Installation and commissioning of the ND280 Time Projection Chambers
- Responsible for the development of the particle identification methods in the TPCs
- Analysis of the TPC test beam data

- Responsible of the Near Detector inputs for the first T2K oscillation measurement
- Co-convener of Near Detector ν_e group (2012 - 2014)
- Co-convener of Near Detector exotics group (2014 - 2015)
- Co-convener of the T2K oscillation analysis group (2015 - present)
- Member of T2K analysis steering group
- T2K run coordinator
- Chair of the editorial board of 2 T2K papers, member of the editorial board of 5 T2K papers

DarkSide experiment

2014 - present

- Development of the DarkSide Monte Carlo simulation;
- Estimation of the residual ^{39}Ar component in the underground Argon;
- Sensitivity of large volume double phase liquid Argon detector to solar neutrinos;
- Participation to the ARIS experiment for the precise measurement of scintillation and ionization in Liquid Argon
- Member of DarkSide Speaker Board

SciBooNE experiment

2006 - 2007

- 5 months at Fermilab for the installation and commissioning of the Electromagnetic Calorimeter
- Responsible for calibration and alignment of the Electromagnetic Calorimeter
- development of the Electromagnetic Calorimeter reconstruction software;

SUPERVISION

<i>2011 - 2014</i>	Co-director of PhD thesis of J. Caravaca (IFAE, T2K experiment)
<i>2013 - 2016</i>	Director of PhD thesis of P. Bartet Friburg (LPNHE, T2K experiment)
<i>2015 - now</i>	Director of PhD thesis of S. Bienstock (LPNHE, T2K experiment)
<i>2016 - now</i>	Director of PhD thesis of A. Navrer-Agasson (LPNHE, DarkSide)

RESPONSIBILITIES

Elected member of the LPNHE Scientific Council

Co-organiser of the Journées des Rencontres des jeunes chercheurs (JRJC)