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appointments Associate professor at the University of Paris-South, France, 2009 – *Present*
Post doctoral position in the Karlsruhe Institute for Technology, Germany, 2008–2009

education Ph.D. in Particle Physics from the University of Nantes, “Study of the composition of ultra high energy cosmic rays detected by the Pierre Auger Observatory and analysis of hadronic processes, France, 2005–2008
Master of Astrophysics at the University of Paris-South, France, 2003–2005

teaching

- Teaching assistant in Electromagnetism in Licence 3 of Fundamental Physics, University of Paris-South
- Teaching assistant in Nuclear & Particle Physics in Master 1 of Fundamental Physics, University of Paris-South
- C++ lectures in Master 1 of Fundamental Physics, University of Paris-South
- Practical activities in Optics & in Nuclear Physics, Licence 3 and Master 1 of Fundamental Physics, University of Paris-South

publications

Neutrino physics

NEMO3 Collaboration, 2014. “Search for neutrinoless double-beta decay of ^{100}Mo with the NEMO-3 detector”, *Physical Review D* 89.
NEMO3 Collaboration, 2014. “Investigation of double beta decay of ^{100}Mo to excited states of ^{100}Ru ”, *Nuclear Physics A* 925.
NEMO3 Collaboration, 2011. “Measurement of the double beta decay half-life of ^{130}Te with the NEMO-3 detector”, *Physical Review Letters* 107.
SuperNEMO Collaboration, 2010. “Probing new physics models of neutrinoless double beta decay with SuperNEMO”, *European Physics Journal C* 70.
NEMO3/SuperNEMO Collaboration, 2010. “Results of the BiPo-1 prototype for radiopurity measurements for the SuperNEMO double beta decay source foils”, *Nuclear Instruments and Methods in Physics Research A* 622.
SuperNEMO Collaboration, 2010. “Spectral modeling of scintillator for the NEMO-3 and SuperNEMO detectors”, *Nuclear Instruments and Methods in Physics Research A* 625.

Cosmic rays physics

NA61/SHINE Collaboration, 2012. “Measurement of production properties of positively charged kaons in proton-carbon interactions at 31 GeV/c”, *Physical Review C* 85.
NA61/SHINE Collaboration, 2011. “Measurements of cross sections and charged pion spectra in proton-carbon interactions at 31 GeV/c”, *Physical Review C* 84.
Pierre Auger Collaboration, 2011. “The exposure of the hybrid detector of the Pierre Auger observatory”, *Astroparticle Physics* 34.
Pierre Auger Collaboration, 2010. “Update on the correlation of the highest energy cosmic rays with nearby extragalactic matter”, *Astroparticle Physics* 34.
Pierre Auger Collaboration, 2010. “Trigger and aperture of the surface detector array of the Pierre Auger observatory”, *Nuclear Instruments and Methods in Physics Research A* 613.
Pierre Auger Collaboration, 2010. “Measurement of the energy spectrum of cosmic rays above 10^{18} eV using the Pierre Auger observatory”, *Physical Letters B* 685.

Pierre Auger Collaboration, 2010. “Measurement of the depth of maximum of extensive air showers above 10^{18} eV”, *Physical Review Letters* 104.

Pierre Auger Collaboration, 2010, “A study of the effect of molecular and aerosol conditions in the atmosphere on air fluorescence measurements at the Pierre Auger observatory”, *Astroparticle Physics* 33.

Pierre Auger Collaboration, 2010. “The fluorescence detector of the Pierre Auger observatory”, *Nuclear Instruments and Methods in Physics Research A* 620.

I. Maris, R. Engel, X. Garrido, A. Haungs, M. Roth. R. Ulrich, M. Unger, 2009. “Influence of low energy hadronic interactions on air-shower simulations”, *Nuclear Physics Proceedings Supplements* 196.

Pierre Auger Collaboration, 2009. “Atmospheric effects on extensive air showers observed with the surface detector of the Pierre Auger observatory”, *Astroparticle Physics* 32.

Pierre Auger Collaboration, 2009. “Limit on the diffuse flux of ultrahigh energy tau neutrinos with the surface detector of the Pierre Auger observatory”, *Physical Review D* 79.

Pierre Auger Collaboration, 2009. “Upper limit on the cosmic-ray photon fraction at EeV energies from the Pierre Auger observatory”, *Astroparticle Physics* 31.

CODALEMA Collaboration, 2009. “Geomagnetic origin of the radio emission from cosmic ray induced air observed by CODALEMA”, *Astroparticle Physics* 31.

Pierre Auger Collaboration, 2008. Observation of the suppression of the flux of cosmic rays above $4 \cdot 10^{19}$ eV, *Physical Review Letters* 101.

Pierre Auger Collaboration, 2008. “Correlation of the highest-energy cosmic rays with the positions of nearby active galactic nuclei”, *Astroparticle Physics* 29

Pierre Auger Collaboration, 2008. “Upper limit on the diffuse flux of UHE tau neutrinos from the Pierre Auger observatory”, *Physical Review Letters* 100.

Pierre Auger Collaboration, 2008. “Upper limit on the cosmic-ray photon flux above 10^{19} eV using the surface detector of the Pierre Auger observatory”, *Astroparticle Physics* 29

Pierre Auger Collaboration, 2007. “Correlation of the highest energy cosmic rays with nearby extragalactic objects”, *Science* 318

Pierre Auger Collaboration, 2007. “Anisotropy studies around the galactic centre at EeV energies with the Auger observatory”, *Astroparticle Physics* 27

Pierre Auger Collaboration, 2007. “An upper limit to the photon fraction in cosmic rays above 10^{19} eV from the Pierre Auger observatory”, *Astroparticle Physics* 27