

Dr. Victor FEUILLARD

Generalist Engineer
Postdoc in Nuclear Physics

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FRANCE

Previous Experience

March 2018 – Dec. 2024	Postdoctoral Research Associate in the ALICE group at the Physikalisches Institut, Heidelberg, Germany
Oct. 2014 – Nov. 2017	PhD Thesis at the CEA/IRFU, Saclay, France: <i>"Measurement of the $\psi(2S)$ production in presence of a Quark-Gluon Plasma with the ALICE detector"</i>
March 2014 – July 2014	Master 2 Internship at the CEA/IRFU, Saclay, France: <i>"Development of the Muon Forward Tracker for ALICE"</i>
April 2013 – Oct. 2013	Engineering school Internship at the California Institute of Technology, Pasadena, USA: <i>"Preliminary design of a calibration system for the electromagnetic calorimeter of the Mu2e experiment at Fermilab"</i>

Formation

Oct. 2014 – Nov. 2017	PhD thesis at the CEA/IRFU Saclay, France, in co-supervision with the University Joseph Fourier of Clermont-Ferrand, France
Oct. 2013 – July 2014	Master 2 Research: Subatomic Physics and Astroparticles (PSA) at the University Joseph Fourier, Grenoble
Sept. 2012 – Sept. 2013	Master 2 Research: Nanoscale Engineering (NSE) at the University Claude Bernard, Lyon 1, in parallel with the third year of Engineering School at the Ecole Centrale de Lyon
Sept. 2010 – Sept. 2013	Engineering School: Ecole Centrale de Lyon, Ecully, France

Main activities

Heavy flavor analysis with Run 2 data and quarkonia analysis with Run 3 data with the ALICE detector
Participated in the development of O2Physics, the analysis framework for Run 3 data in ALICE, in particular the development of the analysis tasks for dilepton and quarkonia (DQ) analysis.
Responsible for the DQ software trigger, the configuration and the QA of the triggered data.
Co-coordinator of the Jpsi2ee PAG from July 2023 to December 2024.
Tutor for the "Advanced Physics Lab for Physicists" course at the Heidelberg University.

Selective list of publications with strong contributions

ALICE, $\psi(2S)$ production in PbPb collisions at $\sqrt{s_{NN}}=5.02$ TeV, Phys. Rev. Lett. 132 (2024) 042301
ALICE, Inclusive quarkonium production at forward rapidity in pp collisions at $\sqrt{s}=8$ TeV, Eur. Phys. J. C 76 (2016) 184
ALICE, J/ψ suppression at forward rapidity in Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV, Phys. Lett B 766 (2016) 212-224

Presentations at international conferences

LHCP Conference 2024: Heavy-flavor production and hadronization at the LHC (multi-experiment talk)
Lepton Photon 2023: Heavy-flavor production (multi-experiment talk)
Hard Probes 2023: $\psi(2S)$ production in Pb-Pb collisions measured by ALICE at the LHC (talk)
QCD 2022: Overview of quarkonium production in ALICE (talk)
Particles And Nuclei International Conference 2021: Measurement of low-mass dileptons in ALICE (poster)
QCD 2020: Measurement of quarkonium production in ALICE (talk)
Hard Probes 2016: Charmonium production in Pb-Pb collisions measured by ALICE at the LHC (talk)

Computing skills

Competent in C++, apache arrow, ROOT, O2Physics

Spoken Languages

French: native language

Spanish: second native language

English: bilingual (623 at TOEFL, obtained in 2011)

German: notions equivalent to B1 level

Japanese: notions equivalent to B1 level

References

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Javier Castellanos, javier.castillo.castellanos@cern.ch, CEA/IRFU, Saclay, FRANCE

David Hitlin, hitlin@hep.caltech.edu, Caltech, Pasadena, USA