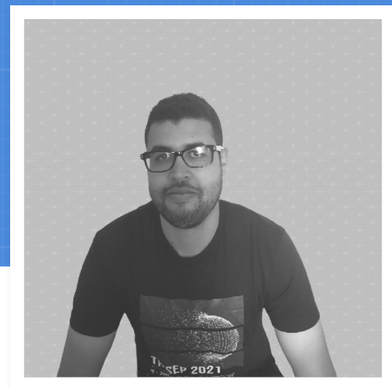

El Abassi Abderrazaq

Ph.D. student

About Me

Hello! I'Am El Abassi Abderrazaq , Ph.D. student in Experimental Particle Physics. and my main field is Neutrinos Physics

Age	24
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Address	B.P 242 Kénitra Morrocco
Contact	

Education

Ph.D. student from Ibn-Tofail University, Faculty of Science Kenitra

2021- present

Morrocco is officially joined HyperKamiokande collaboration, My work will focus on calibration of Energy scale using DT neutron generator, and my Physics analysis in Proton decay search in e+ pi+ channel

MS.C in Mathematical Physics from Mohammed V University, Faculty of Sciences Rabat

2007 - 2011

I gained a sufficient background in Theoretical Particle Physics, from QFT to Standard Model to SUSY and String Theoery. and then I joined ATLAS collaboration, learning about experimental background and analysis tools. and I finised my thesis on Dark Matter, titled "Statistical Combination studies in search for invisible Higgs decays in Vector Boson Fusion with ATLAS detector"

Bachelor on Physics and Matter from Moulay ismail Unversity, Faculty of Sciences Meknes

1995 - 2007

I completed my undergrad studies, and I gained suffiecent materials on Classical Physics and Quantum Mechanics, and during my last year I chosed material Physics and Statistical Physics diciplane because there is no Nuclear Physics or Modern Physics option in that University

Work Experience

Geant4 Simulations and the Calibration of HyperKamiokande Detector using DT neutron generator

Jan, 2022 - Present

Using package WCSim to simulate the detector geometry and Physics processes of a Water Cherenkov detector like SuperK and HyperK based on Geant4 framework, and reconstrcut the energy and vertices using recontruction packages like fiTQun and Bonsai, the DT phase will be done in Japan

Statistical Combinations of invisible Higgs Decays : remotly, because of covid-19

Apr, 2020 - Oct, 2020

During my Master project, I joined the dark matter group of ATLAS experiment. my thesis includes my contribution in statistical combination of invisibe higgs decays. where we search for dark matter events in a multiple toplogies of Higgs decays, like VBF and ttbarH, Monojet. as a messing energy I dveoloped a good expereince in different levels, like collaboration with a group and my skills on combining different channels decay using a given tools

Skills

C++ and Python

Root and Geant4

Machine Learning and Deep Learning

HTML and CSS

JavaScript and React

Node and express, APIs development

Certificates

ESIPAP course 2

European School of Instrumentation in Particle & Astroparticle Physics

Feb 15- Mar 12

The European School in instrumentation for Particle and Asytoparticle Physics Course 2, held virtually between 15 Februray and 12 March. General Lectures and Tutorials in Detector Technologies and Software Computing and Data handling, Plus Tutored Final Project in Medical Physics applications

Tri-Institute School in Elementary Particles

Jun 14-25

TRISEP 2021 is hosted by SNOLAB and held vertually from June 14 to 25. Also hosted in turn by TRIUMF, the Perimeter Institute, and SNOLAB. The School consisted of 30 hours of lectures, at least six hours of group study, and four hours of student presentations

African School of Fundamental Physics and Applications

Jul 19-30

The Activities of the 6th edition of the biennial African School of Fundamental Physics and Applications July 19-30 2021, held vertually and consisted of Online Lectures, Tutorials and workshops. main topics : Nuclear and Particle Physics Astrophysics and Cosmology Accelerators, Radiation and Medical Physics Materials Physics, Nanoscience Biophysics, Fluid and Plasma Physics, Atomic and Molecular Physics Light Sources, Optics and Photonics Physics Education, the internet of things, Quantum Information Renewable Energies and Energy Effeciency Statistical analysis, Heavy Ion Physics