

TANGUY MARSAULT

08/12/2002

Student at CentraleSupélec Saclay (Paris) in gap year



EXPERIENCES

February 2023-Now

Intern in Particle Physics in the FTX group at DESY

Working on detector physics for the LEAP experiment. LEAP is an experiment which aims to produce a polarized electron beam using laser plasma acceleration. Working specifically on the calorimeter used to measure polarization. Supervised by PhD Louis Helary.

July 2022-December 2022

Intern in Particle Physics at CEA-Saclay, France

Probing the CP nature of the Yukawa coupling in the ttH analysis for the Atlas experiment. Working with several PhD students, Post-Docs and permanent researchers, supervised by Frédéric Déliot and Matthias Saimpert. Developed skills : QFT, group theory, data analysis, MC simulations

September 2021-June 2022

Teaching Assistant in Mathematics at CentraleSupélec

Reinforcement classes with foreign students in mathematics at CentraleSupélec, Université Paris-Saclay, First university in mathematics worldwide according to the Shanghai ranking

April 2020-September 2022

CentraleSupélec Chess Club President & Coach

20 members, weekly training sessions, online training and tournaments with other schools
Leader of the competition team for the "Ligue Ingénieure Française d'Echecs" (LIFE)

Novembre 2022

Synchrotron beamline design

Design of a synchrotron beamline over a week with a team of 20 students supervised by PhD P.E. Janolin,, PhD Y. Dabin and PhD S. Sharma

EDUCATION

2021-Now

Second year of engineering at CentraleSupélec

School of engineering, member of Université Paris-Saclay
Topics : Advanced QM, Particle physics, GR, Optimization
Grade of 17/20

2020-2021

First year of engineering at CentraleSupélec

School of engineering, member of Université Paris-Saclay
Topics: Measure theory, PDE, Statistics, EM, QM

2018-2020

Lycée Stanislas, Paris

CPGE (Classe préparatoire aux grandes écoles) in mathematics and physics

INTERESTS

- Chess : Player & Teacher (DIFFE certified & 1980 FIDE rating)
- Sports : Table tennis, badminton, tennis, running
- Other : Theoretical physics (quantum field theory), New technologies (quantum engineering), Artificial Intelligence



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SKILLS

Physics

Quantum Mechanics
Quantum Field Theory
General relativity
Condensed Matter
Gauge theory
Basics of string theory

Mathematics

Statistics
Group theory
Differential geometry

Programming

Python
Basics of C++
ROOT

LANGUAGES

English C1 level - Fluent
Spanish B2 level
French-native speaker

QUALITIES

Fast learner
Curious & Enthusiastic
Creative
Efficient
Team Spirit