MARCOS ANTÔNIO DE OLIVEIRA DERÓS

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SUMMARY

I was born in Porto Alegre, Brazil. I have been studying Physics since 2017, started to research on Particle Physics in 2019 through Geant4 simulations. My most recent my studies are the investigation of the performance of the ALPIDE chip for low energies and the validation of electron energy deposition for Geant4 versions from 9.6 to 11.0. Due to my research, I have experience with Project O^2, Geant4 and data analysis with Python and ROOT.

EDUCATION

Universidade Federal do Rio Grande do Sul, Brazil　　　　　　　　*2017 - Present*
Degree in Physics
Final average: TBA
Undergraduate dissertation title: TBA

RESEARCH EXPERIENCE

Universidade Federal do Rio Grande do Sul, Brazil　　　　　　　　*2021 - Present*
Scientific Initiation Research
Advisor: Dr. Rafael Peretti Pezzi;
Project title: Studies on the ALPIDE Sensor Performance at Low Energies Regime and its Potential for Ion Beam Analysis.

Grupo de Análise e Simulações de Partículas, Brazil　　　　　　　　*2021 - Present*
Scientific Initiation Research
Advisor: Dr. Gabriela Hoff;
Project title: Validation of Geant4 Simulation of Electron Energy Deposition.

Universidade Federal do Rio Grande do Sul, Brazil　　　　　　　　*2020 - Present*
Scientific Initiation Research Fellowship
Advisor: Dr. Luis Gustavo Pereira;
Project title: Study on the Muon Dispersion in the ALICE's Absorber Using Geant4.

Universidade Federal do Rio Grande do Sul, Brazil　　　　　　　　*2019 - 2020*
Scientific Initiation Research Fellowship
Advisor: Dr. Luis Gustavo Pereira;
Project title: Study on the Behavior of Cosmic Radiation in Earth's Atmosphere.

OUTREACH

Volunteer at the UFRGS Open Day　　　　　　　　*2018 and 2019*

TECHNICAL STRENGTHS

Computer Languages	C, C++, Python, Bash
Software & Tools	Geant4, ROOT, LaTeX
Languages	Portuguese (native), Spanish (basic), English (advanced)