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Thesis / Dissertation (*)

Phd Thesis

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- Development of a new PET detector for pancreatic and prostate cancer detection [link](#)
- Spin Structure of the Proton at Low x and Low Q² from the COMPASS Experiment at CERN [link](#)
- Search for the Higgs boson at ATLAS/LHC in WH associated production and decay to b quark pairs using MVA methods [link](#)
- Demonstration of a time-of-flight device for particle therapy monitoring [link](#)
- Study of ground state properties of the halo nucleus ¹¹Be via scattering on a proton target at quasi-free scattering conditions performed at the R3B setup at GSI [link](#)
- Search for the Higgs boson at ATLAS/LHC, in associated production with a Z boson [link](#)
- Search for flavour-changing neutral current top-quark decays with the ATLAS detector [link](#)
- Measurement of the longitudinal profile of cosmic ray air-showers at the Pierre Auger Observatory [link](#)

Master Thesis

- Response of a water-Cherenkov detector to inclined muons at the Pierre Auger Observatory [link](#)
- Probing hadronic interactions at ultra-high energies [link](#)
- Development and Radiation Hardness Assessment of MR sensors for Space Applications [link](#)
- Análise de Biometais em Tecido Cerebral por Microscopia Eletrónica Analítica [link](#)
- Optical calibration of the SNO+ experiment and sensitivity studies for neutrino-less double beta decay [link](#)
- Probing the CP nature of the Higgs couplings in ttH events at the LHC [link](#)
- Development of a control board for the HV distribution system [link](#)
- Optimization of clustering algorithms for the ATLAS Experiment at the LHC (CERN) [link](#)
- Detector Control System of the HV distribution boards for the ATLAS Tile Calorimeter Phase II Upgrade [link](#)
- Aprendizagem profunda: estudo e aplicações [link](#)

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