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## Data oriented analysis on atomic collisions

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Particle collision is a growing field that aims to discover the science of the future. Very few particle colliders are built, but the most powerful one is the Large Hadron Collider (LHC). This project is a data oriented analysis on the experiments made in the LHC which implies two main tasks. Firstly, studying the science behind the particle collisions, and secondly, analyzing the data resulting from collisions. The proposed analysis in this project finds tracks of Higgs boson particle. On 04 July 2012, ATLAS and CMS, the two biggest LHC detectors, announced the discovery of a new boson with a mass around 125 GeV, which by the preliminary data analysis appears to be the Higgs boson, which completes the Standard Model (SM), and fills its breaches, regarding how particles acquire mass. Agile methodology is used to manage the whole project. The data that author has worked on is released by CERN (European Organization for Nuclear Research).

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