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CALICE Theses

The following theses have been written using CALICE data. These should NOT be regarded as official CALICE results, but are the responsibility of the students concerned.

Ph.D. Theses

- Kostiantyn Shpak Development and optimization of highly granular silicon tungsten electromagnetic calorimeter for the International Linear Collider (LLR, École polytechnique, January 2018)

- Sviatoslav Bilokin Hadronic showers in a highly granular silicon-tungsten calorimeter and production of bottom and top quarks at the ILC (LAL and Université Paris Sud, Université Paris Saclay; July 2017)

- Yacine Haddad A highly granular semi-digital hadron calorimeter for a future linear e+e− collider and a model independent Higgs boson measurement in the ZH qq+X channel (École polytechnique; October 2014)

- Jérémy Rouëné Calorimètre électromagnétique silicium-tungstène hautement granulaire - Production du quark top à l’International Linear Collider (LAL and Université Paris Sud; June 2014)

- Tony Price Digital calorimetry for future e+e− linear colliders and their impact on the precision measurement of the top Higgs Yukawa coupling (University of Birmingham; August 2013)

- Lars Weuste Mass Measurement of Right-Handed Scalar Quarks and Time Measurement of Hadronic Showers for the Compact Linear Collider (Max-Planck-Institut für Physik & LMU München; June 2013)

- Katja Seidel Top quark pair production and calorimeter energy resolution studies at a future collider experiment (Max-Planck-Institut für Physik & LMU München; January 2012)

- Philippe Doublet Hadrons in a highly granular SiW ECAL -- Top quark production at the ILC (LAL and Université Paris Sud; October 2011)

- Nils Feege Low-energetic Hadron Interactions in a Highly Granular Calorimeter (Universität Hamburg, January 2011)

- Kurt Francis Results of beam tests of a prototype calorimeter for a linear collider (NIU, May 2010)

- Marcel Reinhard CP violation in the Higgs sector with a next-generation detector at the ILC (Ecole Polytechnique; November 2009)

- Hengne Li Higgs Recoil Mass and Cross-Section Analysis at ILC AND Calibration of the CALICE SiW ECAL Prototype (LAL & Université Paris XI; October 2009)

- Nicola d’Ascenzo Study of the Neutralino Sector and Analysis of the Muon Response of a Highly Granular Hadron Calorimeter at the International Linear Collider (DESY; January 2009)

- Michele Faucci Giannelli Measuring the Higgs self-coupling at an electron-positron collider (RHUL; November 2008)
M.Sc. Theses

- Aveen Mahon: Track segment analysis of particle showers in the Analogue Hadronic Calorimeter engineering prototype (McGill, August 2021)
- Isabelle Viarouge: Calibration of the Digital Hadron Calorimeter using Data Track Segment Analysis (McGill, April 2018)
- Daniel Trojand: Novel Digital Hadron Calorimeter: Analysis and Calibration with Muons (McGill, April 2012)
- Takuma Goto: Analysis of pion shower data from the CALICE prototype calorimeter for ILC

Diploma Theses

- Nanda Wattimena: Commissioning of an LED Calibration & Monitoring System for the Prototype of a Hadronic Calorimeter (DESY; April 2006)
- Benjamin Lutz: Commissioning of the Readout Electronics for the Prototypes of a Hadronic Calorimeter and a Tailcatcher and Muon Tracker (DESY; May 2006)
- Sebastian Richter: Validation of the Calibration Procedure for a Highly Granular Calorimeter with Electromagnetic Processes (DESY; September 2008)
- Nils Feege: Silicon Photomultipliers: Properties and Application in a Highly Granular Calorimeter (DESY; October 2008)
- Lars Weuste: A Study of Track Segments within Hadronic Showers with a Highly Granular Hadronic Calorimeter (MPP, September 2009)
- Christian Soldner: Scintillator Tile Uniformity Studies for a Highly Granular Hadron Calorimeter (MPP, September 2009)

Habilitations

- Roman Pöschl: Towards experimentation at a Future Linear Collider (LAL & Université Paris XI; October 2009)

-- FrancoisCorriveau - 2022-04-18