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CALICE Theses

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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’Ascenso 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)
• Manqi RUAN
  A precise Higgs mass measurement at the ILC and test beam data analysis with CALICE (LAL & Tsinghua; November 2008)

• Qingmin Zhang
  R&D of Digital Hadron Calorimeter Prototype with Glass RPCs

• Marius Groll
  Construction and commissioning of a hadronic test-beam calorimeter to validate the particle-flow concept at the ILC (DESY; May 2007)

M.Sc. Theses

• 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)