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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 $ZH \rightarrow q\bar{q}+X$ 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 Fauci 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)

-- RomanPoeschl - 2019-09-19

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