



Utrecht University

## Report from the Speakers' Bureau

Roman Pöschl



CALICE Collaboration Meeting Utrecht/Netherlands – April 2019

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Roman Pöschl (LAL) [poeschl@lalNOSPAM.in2p3.fr](mailto:poeschl@lalNOSPAM.in2p3.fr) (chairperson)

## Work includes:

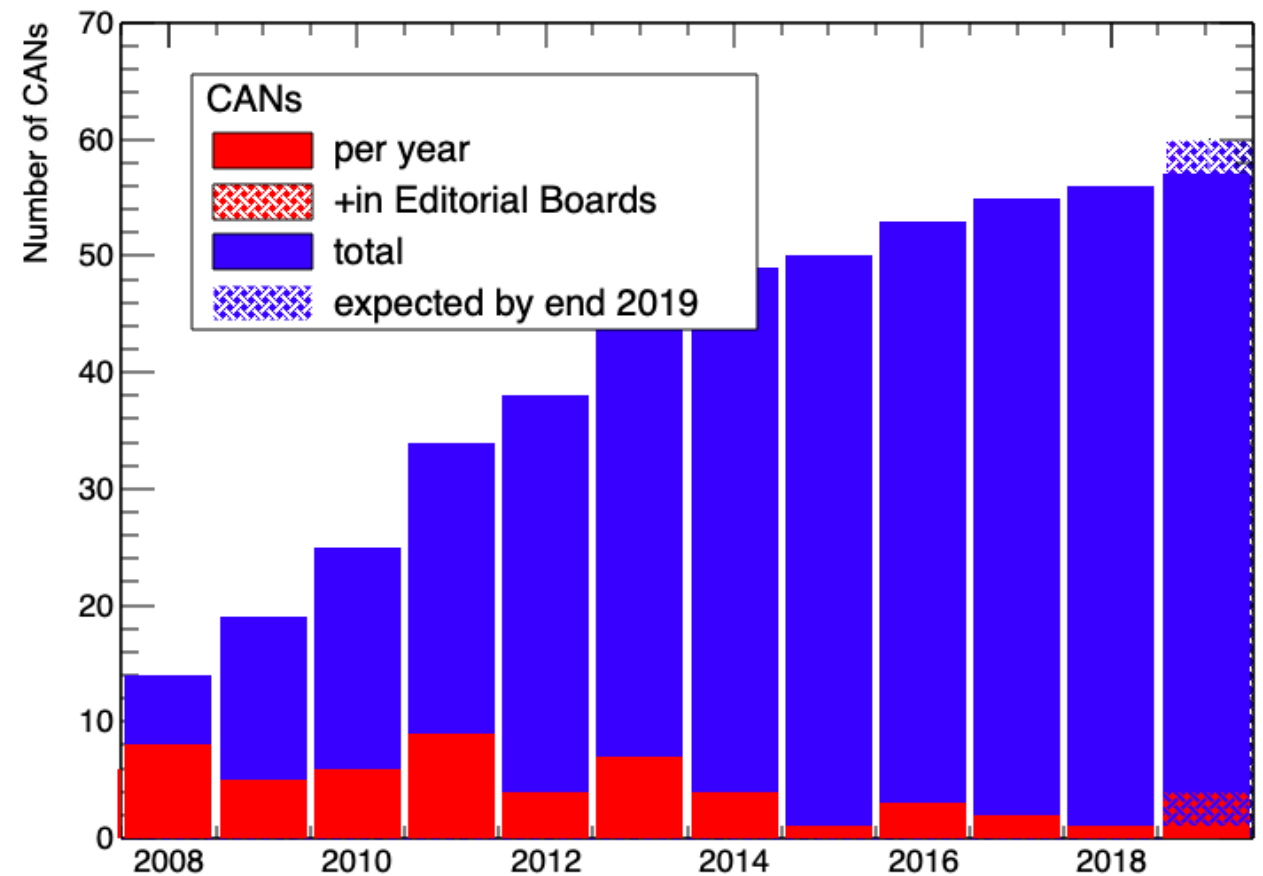
- Management of CALICE publications (CAN and Papers)
  - Setting up Editorial Boards and indico pages
  - Follow up the review process
- Preparation of Conferences
  - Call for contributions
  - Organising speakers and rehearsals (or distribution of slides prior to conferences)
- Aftermath, i.e. availability of material including
- Report at CALICE Meeting and maybe at reviews

## Meetings:

- SpB Meeting on 11/1/19
- Next one end of May beginning of June 2019

## 57 Analysis Notes available

- 1 CAN released since Shanghai Meeting
- 3 CAN in Editorial Board or under collaboration review
- N CAN in preparation?

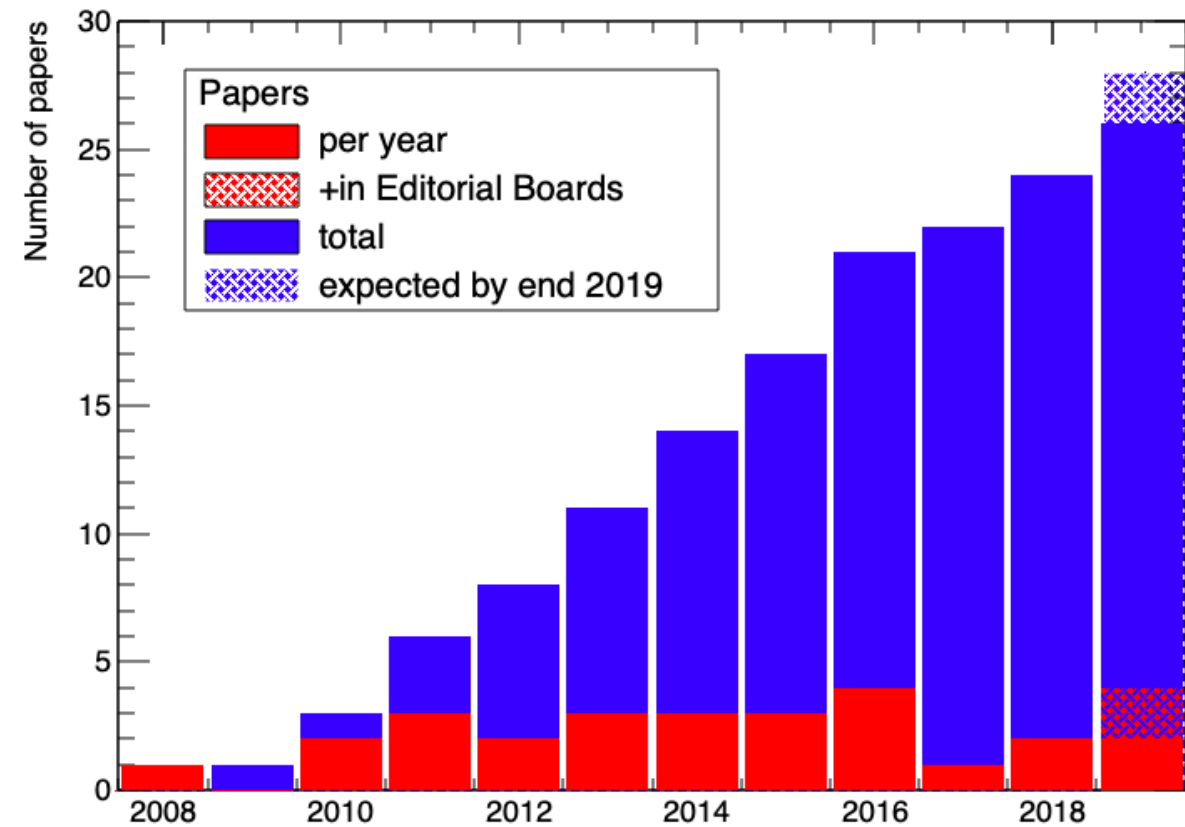


Status can be found at <https://twiki.cern.ch/twiki/bin/view/CALICE/EditorialBoard>

- **Released in 2019**  
CALICE-CAN-2019-001:  
*Hadron selection using Boosted Decision Trees in the semi-digital hadronic calorimeter*  
(Liu, Laktineh, Yang)
- **In Editorial Boards**
  - CAN-060 (-> Collaboration review)
    - Author: C. Graf, EB: M. Fouz, T. Suehara, H.C. Schultz-Coulon
  - CAN-061
    - Author: E. Brianne, EB: G. Grenier, R.P., M. Wing
  - CAN-063 (-> Collaboration review)
    - Authors: A. Provenza, K. Krüger, EB: F. Corriveau, A. Irles, L. Masetti
- **Under preparation**
  - SiW Ecal and DHCAL combined analysis (Francois Corriveau)

## 26 Papers published

- 2 Papers published since Shanghai Meeting
- 1 in Editorial Board



Status can be found at <https://twiki.cern.ch/twiki/bin/view/CALICE/EditorialBoard>

- Released in 2019

**CALICE-PUB-2019-001, arxiv: 1901.08818, submitted to NIMA**

*Analysis of Testbeam Data of the Highly Granular RPC-Steel CALICE*

*Digital Hadron Calorimeter and Validation of Geant4 Monte Carlo Models*

Author: C. Neubüser, EB: B. Bilki, T. Takeshita, C. Zeitnitz

- Encouraging comments, 2<sup>nd</sup> version submitted 2/4/19

**CALICE-PUB-2019-002, arxiv: 1902.06161, submitted to NIMA**

*Tracks of hadronic showers in the CALICE Si-W ECAL physics prototype*

Authors: S. Bilokin, R. Pöschl, EB: G. Eigen, L. Masetti, N. Watson

will change title to

*Characterisation of different stages of hadronic showers using the CALICE Si-W ECAL physics prototype*

Following suggestion of Journal Referee,

- Encouraging comments, 2<sup>nd</sup> version ready to be submitted

- In Editorial Board

- Paper030: Software Compensation using Si-W ECAL and AHCAL (Y. Israeli, F. Simon,
- EB: E. Sicking, R.P., A. White, SpB-Chair delegate: I. Laktineh
- **t0 talk at this meeting by Yasmine (new)**

- Si-W Ecal technol. prototype paper

- Referee asked for shower analysis until 1/6/19
- See Adrian's talk
- May need EB that works quickly

## Published papers broken down by projects

- Si-W ECAL: 6
- Sc ECAL: 2
- AHCAL: 7 (Fe) + 2 (W)
- SDHCAL: 3 + 1 (no CALICE)
- DHCAL: 2 + 8 (no CALICE)
- TCMT: 1
- T3B: 1 + 1 (no CALICE)
- 2 general paper (based on Si-W ECAL + Fe-AHCAL data and Scint-ECAL + Fe-AHCAL data)

CALICE Conference talks can be found here

<https://twiki.cern.ch/twiki/bin/view/CALICE/CaliceConferenceTalks>

## Conferences since Shanghai

- ICPPA2018, Moscow – 1 talk + proceedings
- IEEE2018, Sydney, 2 posters, 1 proceedings
- LCWS2018, Arlington/TX – 7 talks, 1 proceedings
- BTTB7, CERN – 1 talk
- CLIC Workshop 2019 – 1 talk
- VCI2019, Vienna – 1 talk + proceedings

It's my duty to encourage to write proceedings where asked for




List of upcoming conferences is available here

<https://twiki.cern.ch/twiki/bin/view/CALICE/UpcomingConferences>

This list is maintained by the SpB Chair (Please direct me to missing events)

- CEPC Workshop, Oxford, UK, 15-17 April 2019
  - 1 CALICE Talk, I. Laktineh
- EPS-HEP 2019, Ghent Belgium 10-17 July
  - 2 centralised abstracts by SpB, **deadline 15/4/19**
- DPF Meeting 2019, Boston/MA, 29/7/19 – 2/8/19
  - Call to North American colleagues launched, deadline 18/5/19
- Lepton-Photon 2019, Toronto, Canada, 5-10 August 2019
  - 2 centralised abstracts by SpB, **deadline: 15/4/19**
- TWEPP 2019, Santiago de Compostela, Spain, 2-6 Sept.
  - Call in CALICE to be launched, deadline 30/4/19
- IEEE2019, Manchester, UK, 29 October – 2 November 2019
  - Handled by V. Boudry for SpB, call out, deadline 8/5/19

- **At the last Collaboration Meeting it was decided ...**
  - ... to import CALICE publications into inspires and to store them on the CERN Document Server (CDS)
  - ... to switch to new numbering scheme(s) for CAN and papers
- **Meanwhile all CAN Notes are available on inspires**
  - Go to <http://inspirehep.net> and type “Calice and 037:CALICE-CAN\*{ -> see next page
  - “CALICE and NNN” allows for finding a CAN using the old number (maybe still more familiar)
- **All CAN are available on CDS (-> see Page 12)**
- **A big thanks to Maud Medves (successor of Annette Holtkamp) of the CERN Documentation Team**
- **Switch to new numbering scheme**
  - All CALICE Notes have now a tag CALICE-CAN-YYYY-NNN
  - All CALICE Papers have now a tag CALICE-PUB-YYYY-NNN (and entry on CDS)
- **Encountered issues:**
  - Some CAN have been put together with “their” corresponding papers during automatic harvesting
    - For practical purposes I propose to keep it like that and to keep them separate in the future
  - Some CANs came as versions CAN-NNNa etc. (up to CAN-NNNe !!!)
    - Difficult to handle by documentation system (rejection -> import by hand)
    - Should try to avoid this in the future, an updated analysis should yield a new CALICE-CAN
- **To do:**
  - Update CALICE Wiki pages with new numbering schemes and links to CDS Records
  - (Try to) introduce consistent numbering of conference papers (will be tedious)



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- Hadron selection using Boosted Decision Trees in the semi-digital hadronic calorimeter**  
 CALICE Collaboration. 2019. 20 pp.  
 CALICE-CAN-2019-001  
[References](#) | [BibTeX](#) | [LaTeX\(US\)](#) | [LaTeX\(EU\)](#) | [Harvmac](#) | [EndNote](#)  
[CERN Document Server](#); [Link to Fulltext](#)  
[Detailed record](#)
- First results of the CALICE SDHCAL Technological Prototype**  
 CALICE Collaboration. 27 pp.  
 CALICE-CAN-2012-003, CALICE Analysis Note CAN-037, CALICE Analysis Note CAN-037a, CALICE Analysis Note CAN-037b  
[References](#) | [BibTeX](#) | [LaTeX\(US\)](#) | [LaTeX\(EU\)](#) | [Harvmac](#) | [EndNote](#)  
[CERN Document Server](#); [Link to Fulltext](#); [Link to Addendum CAN-037a](#); [Link to Addendum CAN-037b](#)  
[Detailed record](#) - [Cited by 2 records](#)
- The Time Structure of Hadronic Showers in Tungsten with FastRPC**  
 CALICE Collaboration. 11 pp.  
 CALICE-CAN-2013-002, CALICE Analysis Note CAN-043  
[References](#) | [BibTeX](#) | [LaTeX\(US\)](#) | [LaTeX\(EU\)](#) | [Harvmac](#) | [EndNote](#)  
[CERN Document Server](#); [Link to Fulltext](#)  
[Detailed record](#)
- Application of software compensation to 2011 W-AHCAL test beam data**  
 CALICE Collaboration. 2018. 11 pp.  
 CALICE Analysis Note CAN-062, CALICE-CAN-2018-001

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### Preprints

Report number CALICE-CAN-2019-001

Title **Hadron selection using Boosted Decision Trees in the semi-digital hadronic calorimeter**

Corporate author(s) CALICE Collaboration

Collaboration CALICE

Imprint 2019. - 20 p.

Subject category Detectors and Experimental Techniques ; Detectors and Experimental Techniques

Accelerator/Facility,  
Experiment [CALICE](#)

**Abstract** The CALICE Semi-digital Hadronic CALorimeter (SDHCAL) prototype using Glass Resistive Plate Chambers as a sensitive medium is the first technological prototype in a family of high-granularity calorimeters developed by the CALICE Collaboration to equip the experiments of future leptonic colliders. It was exposed to beams of hadrons, electrons and muons several times on the CERN PS and SPS beamlines in 2012, 2015 and 2016. We present here a new method of particle identification within the SDHCAL using the Boosted Decision Tree (BDT) method applied to the data collected in 2015. The performance of the method is tested first with GEANT4-based simulated events and then on the data collected in the SDHCAL in the energy range between 10 and 80GeV with 10GeV energy step. The BDT method is then used to reject the electrons and muons that contaminate the SPS hadron beams.

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- At the last collaboration meeting I was asked/mandated to check the applicability of CDS during the drafting phase
- Close communication with CERN CDS Team Ludmila Marian, Flavio Costa (until Feb. 2019) and Nicola Tarocco (since March 2019)
- Ludmila and Flavio have set up a test server for me
- Tried to manage drafts of our paper with Sviatoslav
- First try/result not really convincing
  - possible to restrict access to document (important for drafts) e.g. via CERN e-groups
  - no clear versioning possible
- Upon question Nicola answered that this would be difficult to realise with current CDS software
- Will see with current draft of Paper030 whether CDS can be tweaked to get to satisfactory results
  - Frank and Yasmine ready to serve as Guinea Pigs
- **Until further notice indico will be used during drafting phase of papers and CANs**
  - Will check for alternatives and maybe ask the LHC Collaborations (they must have something handy)
- **Thanks to the CERN CDS Team for their support**
  - Will remain in contact with them, maybe I have overlooked something and maybe we have triggered a useful extension of CDS

- Publications appear at regular speed,
  - 2 papers and 1 CAN published since Shanghai, more to come soon
  - Regular presence at conferences
- **The import of CAN into inspires and CERN CDS is complete and should be used from now on for e.g. bibliographies in papers**
  - **“Official Go” today**
  - If you find short comings/missing papers please tell me immediately
  - Update of WikiPages in coming weeks,
  - Need to think about a structure (Yearwise, topicwise?)
- **New procedures concerning/publications conferences in place**
  - Always one SpB Member part of an EB
  - Assignment of SpB Members to conferences
  - T0 talk before CANs/Papers
- **New numbering scheme in place!**
  - Should be used from now on
  - => Please refer to CAN as CALICE-CAN-YYYY-NNN and to papers as CALICE-PUB-YYYY-NNN
- **CDS doesn't look suited for drafting phase at the moment**
  - Will inquire further including alternatives to prepare decision for September meeting

- Publications progress with the same rhythm as in previous years
  - We could be a bit faster in the turnaround
- Several proposals for a more active role of SpB Members in the future
- Increases the visibility of SpB members but also increase of course the workload of each (regular) member
- I personally would be happy to continue with the current members
- Import of CAN into spires has been launched
  - Will take the autumn to streamline everything
- Investigations on a new publication systems are ongoing