

Report from the Speaker's Bureau

CALICE Collaboration Meeting
March 24th, 2021

François Corriveau
on behalf of the Speakers' Bureau



CALICE Speakers' Bureau

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Role

Manage Publications (Analysis Notes and Papers)

Set up Editorial Boards, Indico pages and follow the review process

Participation to Conferences

Before: call for contributions, organize speakers, rehearsals, distribute slides or posters

After: review proceedings, collect documents, update web pages

Organization of Analysis Meetings every ~2 months

Others

Composition

Jerry Blazey (NIU)

✓

Vincent Boudry (LLR)

✓

Wataru Ootani (Tokyo)

✓

François Corriveau (McGill)

✓

Chair

Frank Simon (MPP)

✓

ex-officio as IB Chair

Roman Pöschl (LAL)

✓

ex-officio as Spokesperson

meet once or twice a year

last: July 2020

next: TBD

Theses

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

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 $ZH \rightarrow qq+X$ channel (École polytechnique; October 2014)

etc..

Groups are strongly encouraged to submit CALICE-related theses here !

Analysis Notes

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

61 available
3 on hold in EB

No change in 2020

Groups are strongly encouraged to write down notes on their work,
also as incentives for papers.

Papers

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

27 published
4 on hold/stopped
2 in EB

	Board	Authors	Title	
Paper031 -> CALICE-PUB-2020-001	Fouz, Cvach, Simon	Liu, Laktineh, Yang	Particle ID in SDHCAL using BDT	Link to drafts
<i>Paper032</i>	Fouz, Cvach, Simon	Liu, Laktineh	Hadron Energy Reconstruction in SDHCAL using BDT	Link to drafts
<i>Paper033</i>	Kawagoe, Zutshi, Grenier	Krüger, Sefkow	AHCAL Prototype (temporary title)	Link to drafts

Status:

Paper032 – first EB round done, revised version almost completed

Paper033 – first version submitted in February, waiting for EB comments

Conferences

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

.. updated

2021

- [EPS-HEP 2021](#) (DESY/Hamburg, July 26-30, 2021, virtual)
- [TIPP 2021](#) (TRIUMF, Canada, May 24-29, 2021, virtual)
- [CPAD 2021](#) (Stony Brook, USA, March 18-22, 2021, virtual)
- [LCWS 2021](#) (March 15,18, 2021, virtual)
- [HEP 2021](#) (Hong Kong, January 14-21, 2021, virtual)

→ abstract submission deadline: May 7th, 2021
5 submissions (K.Krüger, plenary)
3 talks
13 talks (R.Poeschl, lecture)
3 talks

2020

- [FCC 2020](#) (CERN, Switzerland, November 10-13, 2020, virtual)
- [CEPC 2020](#) (Shanghai, China, October 26-28, 2020, virtual)
- [AWLC 2020](#) (SLAC, Stanford, October 19-22, 2020, virtual)
- [ICHEP 2020](#) (Prague, Czech Republic, July 28 - August 6, 2020, virtual)
- [TIPP 2020](#) (Whistler, Canada, May 24-29, 2020, postponed)
- [CALOR 2020](#) (Sussex, UK, May 18-20, 2020, postponed)
- [INSTR 2020](#) (Novosibirsk, Russia, February 24-28, 2020)
- [BTTB 2020](#) (Tbilisi, Georgia, January 27-30, 2020)

3 talks
3 talks
1 talk (F.Corriveau, plenary)
2 talks
-
- (start of pandemic)
1 talk
1 talk

Last Conferences in 2020

[CEPC 2020](#) "The 2020 International Workshop on the High Energy Circular Electron Positron Collider" (Shanghai, China, 26-28 October, 2020, held online)

CALICE Talks

- ["Introduction: high-granularity calorimeters"](#), Frank Simon
- ["News on technological developments within CALICE"](#), Taikan Suehara
- ["Results of CALICE prototypes"](#), Bing Liu (talk not available)

each 1 hour
for CALICE:

[FCC 2020](#) "4th FCC Physics and Experiments Workshop" (CERN, Switzerland, 9-13 November, 2020, held online)

CALICE Talks

- ["Introduction to CALICE"](#), Roman Poeschl
- ["Technological developments"](#), Lucia Masetti
- ["CALICE Results"](#), Daniel Heuchel

- Overview
- Technical
- Analysis

LCWS 2021

[LCWS 2021](#) "International Workshop of Future Linear Colliders" (International, 15-18 March, 2021, held online)

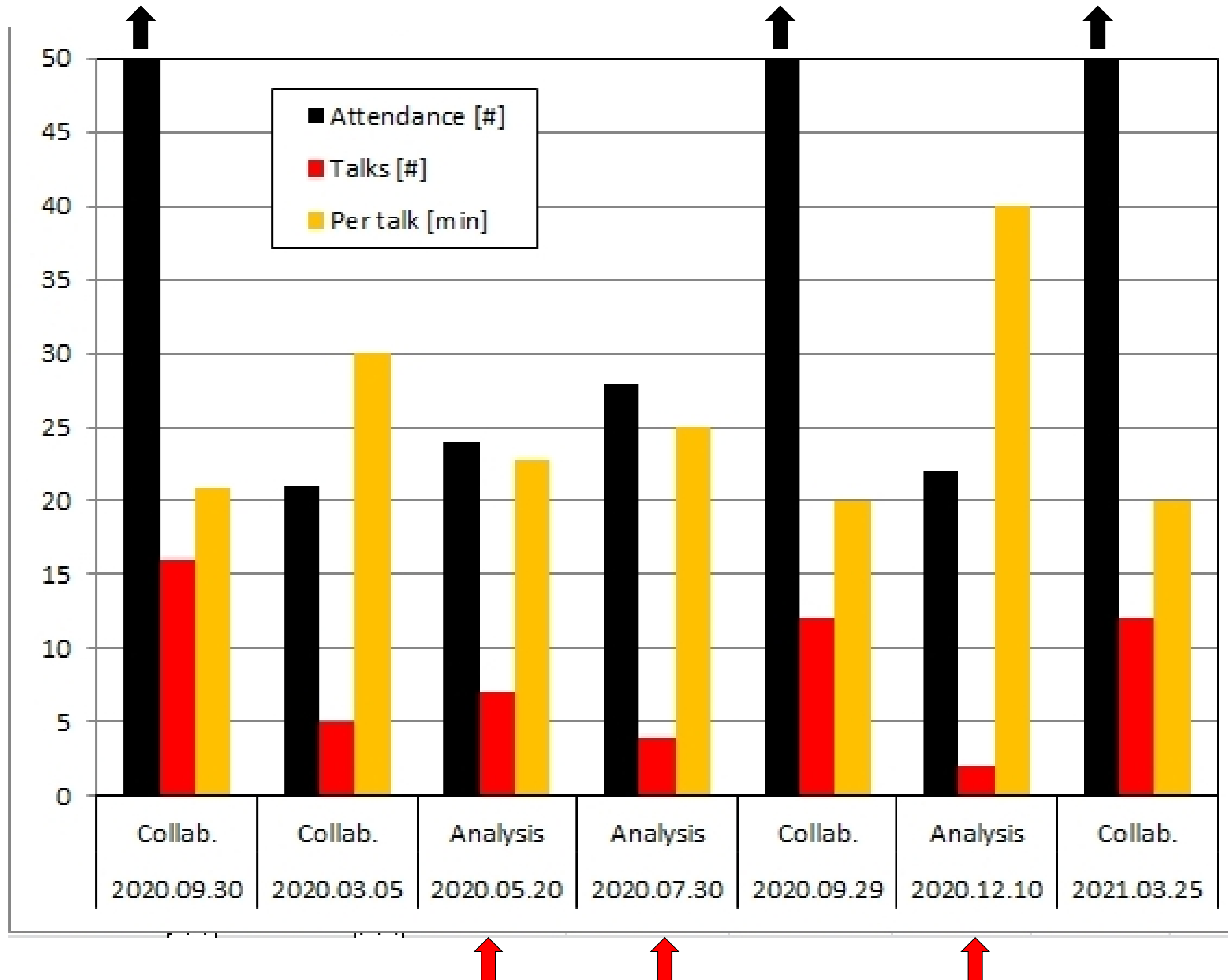
CALICE Talks

- ["LC School Lecture: Detector Physics"](#), Roman Poeschl
- ["Status of the technological prototype of the CALICE highly granular silicon tungsten calorimeter"](#), Adrian Irlles
- ["Using a precise time measurement in a highly granular calorimeter"](#), Henri Videau, Jean-Claude brient, Vincent Boudry and Fabricio Jimenez Morales
- ["A new Front-End Board for the ILD SiW-ECAL"](#), Jerome Manni et al.
- ["Hardware Developments for the CALICE AHCAL"](#), Konrad Briggli
- ["The Semi-Digital Hadronic Calorimeter"](#), Maria Fouz Iglesias et al.
- ["Development of scintillator electromagnetic calorimeter"](#), Naoki Tsuji et al.
- ["Scintillator ECAL development in Shinshu"](#), Tohru Takeshita et al.
- ["Study on SiPM readout method and simulation for scintillator-based electromagnetic calorimeter"](#), Ryunosuke Masuda et al.
- ["Study on saturation of SiPM for ILC scintillator-based electromagnetic calorimeter"](#), Tatsuki Murata et al.
- ["SDHCAL technological prototype test beam results"](#), Hector Garcia Cabrera and Gerald grenier
- ["Analysis of testbeam data recorded with the large CALICE AHCAL technological prototype"](#), Lorenz Konrad Emberger
- ["Future plans of CALICE"](#), Roman Poeschl

For all conferences:

please check your entries in the conference pages and do not forget to inform the Speakers' Bureau of any proceeding

Analysis Meetings



Analysis meetings between collaboration meetings are on since last year:

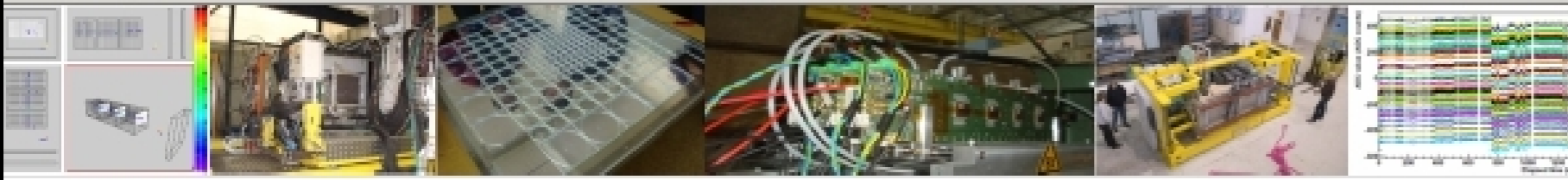
~4-5 presentations each time
attendance ~30 participants

This is an excellent forum for exchange on current issues towards completion of analyses → publications.

Next one in May/June 2021.

Analysis Meetings

The image displays several screenshots of the CALICE Collaboration Meeting agenda. The central screenshot, titled "Analysis Meeting" with URL <https://agenda.linearcollider.org/event/9005/>, shows a session on Thursday 10 Dec 2020, 14:00 → 16:40 Europe/Zurich, led by Francois Corriveau. The agenda includes sessions such as "Introduction" (14:00-14:05), "PandoraPFA Studies on AHCAL 2018 Data" (14:05-14:30), "CALICE and GEANT4" (14:30-14:50), and "Meeting notes" (16:00-16:05). Other screenshots show sessions from May 20, 2020, and July 30, 2020, with topics like "Introduction", "PandoraPFA on AHCAL 2018 Data", "Common SIWECAL - SDHCAL Timing", "AHCAL Timing", "Particle ID in the AHCAL using BDTs", "Status on AHCAL Pion Analysis", "A shower shape analysis on the TestBeam data Shower Shape Analysis", and "Study for Retriggering of SIW-ECAL". A green arrow points from the text "minutes/comments added" to the "Meeting notes" session in the central screenshot and the "Call and Notes" session in the bottom-right screenshot.



CALICE Home Page

TWiki > CALICE Web > WebHome (2021-02-02, RomanPoeschl)



Developing highly granular calorimetry optimised for particle flow event reconstruction for future energy-frontier electron-positron colliders, focusing on the linear colliders ILC and CLIC.

Members of the [CALICE Collaboration](#) are encouraged to update these pages.

Next CALICE Collaboration meeting: [Online Meeting 24 March - 26 March 2021](#)

[Feedback](#) from CALICE to Questions by ECFA-NuPECC-ApPEC Recognition Working Group (November 2020)

CALICE Letters of Interest to the [US Snowmass 2021 Community Study](#) ([Instrumentation Frontier/IF6:Calorimetry](#)) are available [here](#).

In November 2018, CALICE has been reviewed by the [ECFA Detector R&D Panel](#). The report by the review panel is available [here](#).

Main Topics

Test Beams	The Data Taking, From 2007 Onwards
Software	CALICE-specific and ILC
Papers	Published and Preliminary Results, guidelines and procedures (see also talks and theses); forthcoming conferences .
Detectors	Detector Subsystems
MC Production	Collaboration-wide Simulations
Data	Data Analysis (see also good runs) Includes analysis tips and examples of useful Marlin processors
DAQ	DAQ System for the Technical Prototype
Meetings	Indico

revamping still on the *todo* list for the CALICE Management.

e.g.: add links to analysis meetings

Summary

Publications, presentations and the Home page are the faces of CALICE.

Members are encouraged to contribute:

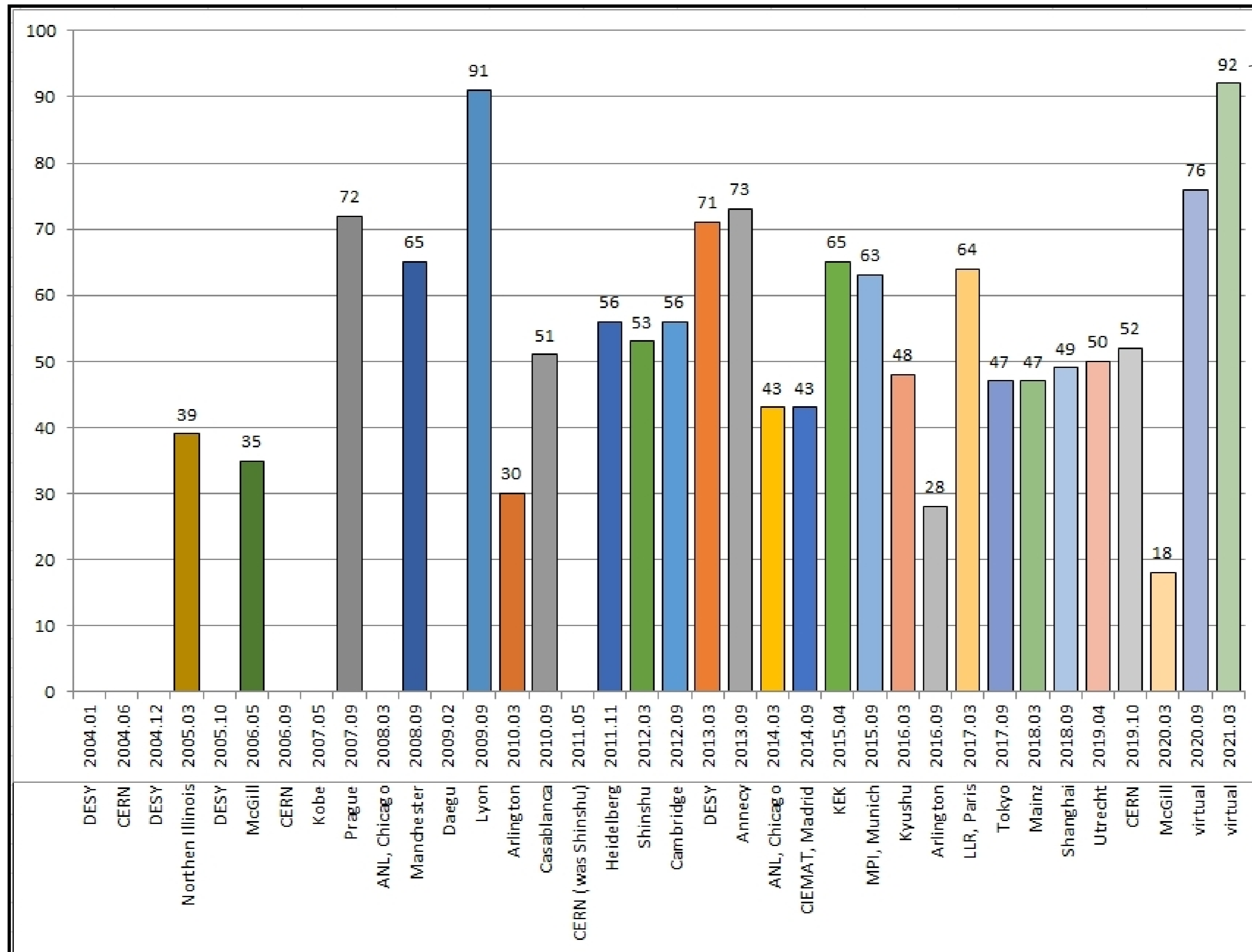
take part in analysis meetings

participate to workshops and conferences

write down their technical or analysis work
in the form of CALICE notes and/or publications

...

CALICE Collaboration Meetings



103? as of yesterday !

Past Slides

Content

The CALICE Speakers' Bureau

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AOB's

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Analysis Notes

60 available (58+2)
 1 became a paper
 3 in EB

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

	Board	Authors	Title	
CAN058	Sicking, White, Poeschl	Israeli, Simon	Software compensation in the combined calorimeter	Link to drafts
CAN059 -> CALICE-CAN-2019-001	Cvach, Simon, Fouz	Liu, Laktineh	Particle ID in SDHCAL using BDT	Link to drafts
CAN060 -> CALICE-CAN-2019-002	Fouz, Suehara, Schultz-Coulon	Graf	Time analysis of 2015 tungsten AHCAL data	Link to drafts
<i>CAN061</i>	Wing, Poeschl, Grenier	Brianne	Time analysis of 2015 steel AHCAL data	Link to drafts
CAN062	Sicking, Simon, Takeshita	Chadeeva	Software compensation in the W-AHCAL	Link to drafts
<i>CAN063</i>	Masetti, Corriveau, Irls	Provenza, Krüger	Hit time and amplitude corrélation in AHCAL	Link to drafts
<i>CAN064</i>	Laktineh, Simon, van der Kolk	Buhmann, Garutti,	Deep Learning based Energy Reconstruction for the CALICE AHCAL	Link to drafts

EB, June 2019
 (version 3)

July 2018
 (collaboration review done)

EB, April 2019
 (collaboration review)

EB, Sept 2019
 (? based on MSc E. Buhmann)

Will confirm status of notes and update the page next time ..

Groups are strongly encouraged to write down notes on their work, also as incentives for papers.

Conferences

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indico.cern.ch/twiki/bin/view/CALICE/CaliceConferenceTalks

(webpage not yet updated)

after CERN meeting (Sept 2019)

- [IEEE 2019](#) (Manchester, UK, October 29 – November 2, 2019)
- [LCWS 2019](#) (Sendai, Japan, October 28 – November 1, 2019)
- [CHEF 2019](#) (Fukuoka, Japan, November 25-29, 2019)
- [BTTB 2020](#) (Tbilisi, Georgia, January 27-30, 2020)
- [INSTR 2020](#) (Novosibirsk, Russia, February 24-28, 2020)

Organizer, notes

- V. Boudry
- W. Ootani
- J. Blazey (14 abstracts → 12 talks, summary)
- F. Corriveau, 1 talk (M. Manzano)
- F. Corriveau, 1 talk (M. Chadeeva)

since McGill meeting (March 2020)

- [CLIC Week 2020](#) (CERN, Switzerland, March 3-13, 2020)
- [CALOR 2020](#) (Sussex, UK, May 18-22, 2020)
- [TIPP 2020](#) (Whistler, Canada, May 24-29, 2020)
- [ICHEP 2020](#) (Prague, Czech Republic, July 20 – August 5, 2020)
- Snowmass Instrumentation Frontier Calorimetry (Sept 14, 2020)

- cancelled
- delayed by one year
- cancelled
- R. Pöschl, 2 talks (V. Boudry, W. Ootani)
- CALICE overview talk by F. Simon

coming next virtually

- [AWLC 2020](#) (SLAC, USA, October 19-22, 2020)
- [CEPC 2020](#) (Shanghai, China, October 26-28, 2020)
- [LPCC 2020](#) (CERN, Switzerland, November 2-3, 2020)
- [FCC 2020](#) (CERN, Switzerland, November 10-13, 2020)

- F. Corriveau to give the calorimeter overview talk
- R. Pöschl, 1-hour CALICE: overview, technical solutions, results (detector simulation, organized by Geant4 collaboration)
- R. Pöschl, 1-hour CALICE: overview, technical solutions, results

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Analysis Meetings

analysis meetings in the past. At the Institute Board of the last collaboration meeting at CERN in September 2019, it was decided, under the purview of the Speakers' Bureau, to:

- revive these meetings, to take place every 2 months or so.
- discuss common analysis issues and
- encourage exchanges towards common solutions.

In addition to the analysis session of the collaboration meeting at McGill in March (5+ talks), two analysis meetings took place up to now in 2020 :

- May 20: 7 talks, 24 participants
- July 30: 4 talks, 28 participants

very interesting and successful !
several analyses coming to maturity

Next: analysis session this week (12 talks, September 29-30) and in November 2020.