

# Report from the Speaker's Bureau

CALICE Collaboration Meeting

*April 20<sup>th</sup>, 2022*

François Corriveau

*on behalf of the Speakers' Bureau*



# CALICE Speakers' Bureau

## 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 ~2-3 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: January 2022

next: TBD

# Speakers' Bureau's Meeting of 2022.01.11

## Agenda:

- 1) Composition of the Bureau
- 2) CALICE Theses
- 3) CALICE Notes
- 4) CALICE Papers and Editorial Boards
- 5) MC-based Papers
- 6) Conferences 2020-2021
- 7) Conferences 2022
- 8) Analysis Meetings
- 9) A.O.B.

## Discussion:

e.g. my turn ends in the Fall of 2022

*not yet successful, see later*

*idem*

details of status, progress and prospects

2-3 possible papers, determine procedure

very successful, review of past 2 years

list coming events and share assignments

very well attended and interactive, 2-3/year

e-groups, webpages (*ongoing & todo*)



# Theses

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

TWiki >  CALICE Web > SpeakersBureau > CaliceTheses (2022-04-18, FrancoisCorriveau)

 Edit  Attach  PDF

## 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)

etc..

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

still no change since 2018 ..

.. except for 4 McGill M.Sc. theses

# Analysis Notes

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

61 available  
3 on hold in EB

no change since 2019 ..

Although nowadays one often goes directly to a publication, groups are strongly encouraged to write down notes on their current work, also as incentives for more papers.

# Papers

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

27 published  
4 on hold/stopped  
**2 submitted (new!)**  
3 in EB

	Board	Authors	Title	
<b>Paper031 -&gt; CALICE-PUB-2020-001</b>	Fouz, Cvach, Simon	Liu, Laktineh, Yang	Particle ID in SDHCAL using BDT	<a href="#">Link to drafts</a>
<b>Paper032 -&gt; CALICE-PUB-2022-001</b>	Fouz, Cvach, Simon	Liu, Laktineh	Hadron Energy Reconstruction in SDHCAL using BDT	<a href="#">Link to drafts</a>
<i>Paper033</i>	Kawagoe, Zutshi, Grenier, Corriveau	Krüger, Sefkow	AHCAL Prototype	<a href="#">Link to drafts</a>
<i>Paper034</i>	Chadeeva, Sicking, White	Boumediene	Description and stability of SDHCAL	<a href="#">Link to drafts</a>
<i>Paper035</i>	Zerwas, Sefkow, Peitzmann	Krüger	HGCAL+AHCAL Performance	<a href="#">Link to drafts</a>

new CALICE-related Paper by Christian Graf and Frank Simon: “*Time assisted energy reconstruction in a highly granular hadronic calorimeter*”. Submitted to arXiv (<https://arxiv.org/abs/2203.01317>), next to JINST.

# Status of Papers

Paper032 – SDHCAL

approved by the collaboration *Congratulations to Imad et al.!*

submitted to arXiv - <https://arxiv.org/abs/2202.09684>, submit next to JINST

Paper033 – AHCAL

submitted in February 2021, now in second EB round

Paper034 – SDHCAL

*Congratulations to Djamel et al.!*

submitted in May 2021, three EB rounds done, approved by the collaboration to be submitted next to arXiv

Paper035 – AHCAL+HGCALE (i.e. with CMS)

submitted in February 2022, first EB round done, waiting for draft revision

*Next: effect of the angle on the SDHCAL response, see talk by Héctor on Friday*

# MC-based Papers

Three such papers by CALICE collaboration members have been recently proposed. They are MC-based, not using CALICE data and thus justifying limited authorships:

“Time assisted energy reconstruction in a highly granular hadronic calorimeter”,  
C. Graf and F. Simon. Submitted for publication (<https://arxiv.org/abs/2203.01317>).

“Machine Learning Approach for Validation of Geant4 Hadronic Models at Secondaries Level”, M. Chadeeva and S. Korpachev. This project follows several presentations at CALICE meetings.

“Generation of Artificial Neutral Hadron Showers in A Highly Granular Calorimeter using Cycle-Consistent Neural Networks”,  
J. Rolph, E. Garutti and G. Kasieczka. A draft exists, the AHCAL geometry is used.

CALICE is favorable to such initiatives and appreciates being made aware of them via the Speakers Bureau in order to resolve any potential conflict.



# Conferences

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

## 2022

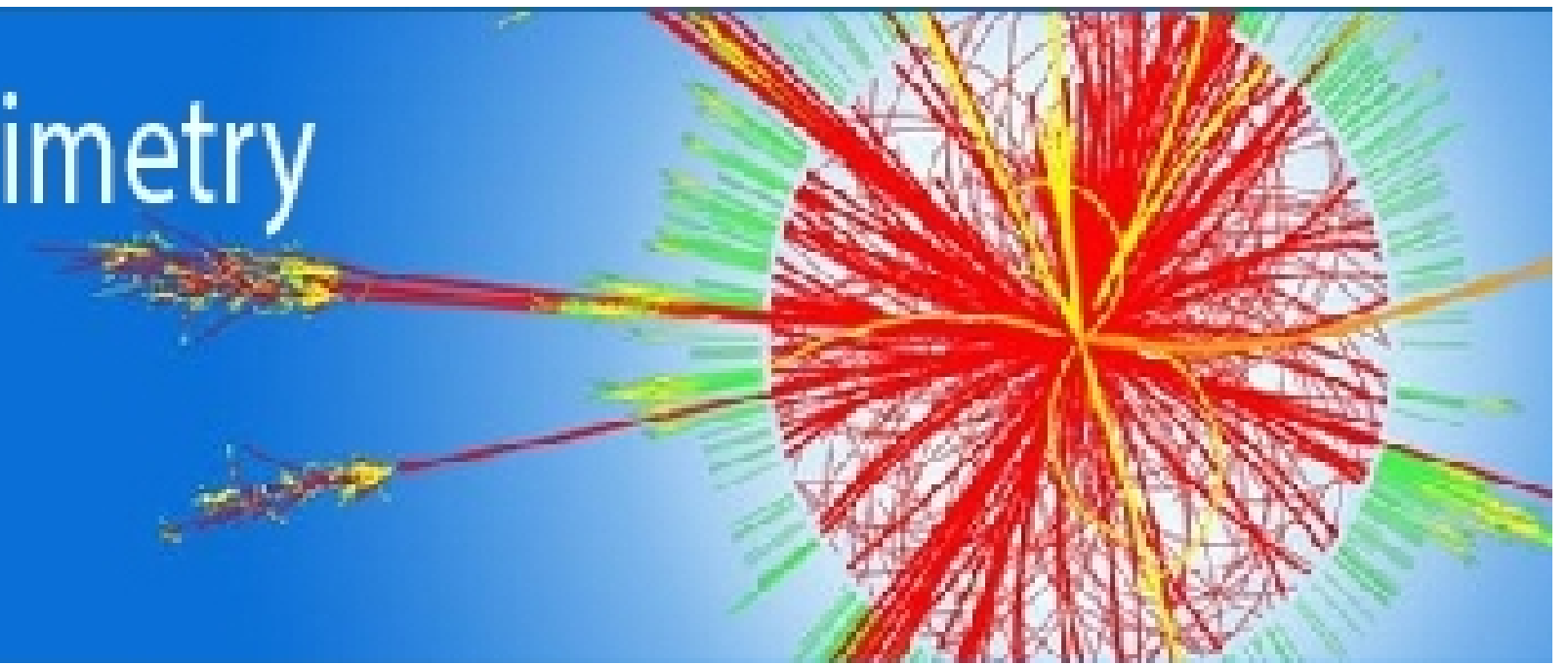
• <a href="#">ICHEP 2022</a> (July 6-13, 2022)	4 abstracts submitted		
• <a href="#">NDIP 2020</a> (July 4-8, 2022)	1 abstract submitted		
• <a href="#">NewTrends 2022</a> (June 26 - July 2, 2022) Abstract deadline: end of March 2022	<i>postponed</i>		
• <a href="#">Pisa 2022</a> (May 22-28,2022) Abstract deadline: 20 February 2022	1 talk, more?		
• <a href="#">CALOR 2022</a> (Sussex, UK, May 16-20, 2022) Abstract deadline: 11 March 2022	10 talks		
• <a href="#">QM 2022</a> (April 4-9, 2022)	-		
• <a href="#">VCI 2022</a> (February 21-25, 2022)	1 video		
• <a href="#">BTTB 2022</a> (January 31 - February 4, 2022)	2 talks		
• <a href="#">LP 2021</a> (January 10-14, 2022)	1 talk, 1 poster/video		
• <a href="#">HEP 2022</a> (IAS Program, January 13-39,2022, virtual}	1 talk		
			21

## 2021

• <a href="#">ILCX2021</a> (KEK, Tsukuba, Japan, October 26-29, 2021, virtual)	4		
• <a href="#">PSD12</a> (University of Birmingham, UK, September 12-17, 2021, virtual)	-		
• <a href="#">PANIC 2021</a> (Lisbon, Portugal, September 5-10, 2021, virtual)	1 talk,		
• <a href="#">EPS-HEP 2021</a> (DESY/Hamburg, July 26-30, 2021, virtual)	2 talks		
• <a href="#">TIPP 2021</a> (TRIUMF, Canada, May 24-29, 2021, virtual)	6 talks, 2 posters	(K.Krüger, plenary)	
• <a href="#">CPAD 2021</a> (Stony Brook, USA, March 18-22, 2021, virtual)	3 talks		
• <a href="#">LCWS 2021</a> (March 15-18, 2021, virtual)	13 talks	(R.Poeschl, lecture)	
• <a href="#">BTTB 2021</a> (Lecce, Italy, February 8-11,2021, virtual)	1 talk (2 parts)		
• <a href="#">HEP 2021</a> (Hong Kong, January 14-21, 2021, virtual)	3 talks		
			33

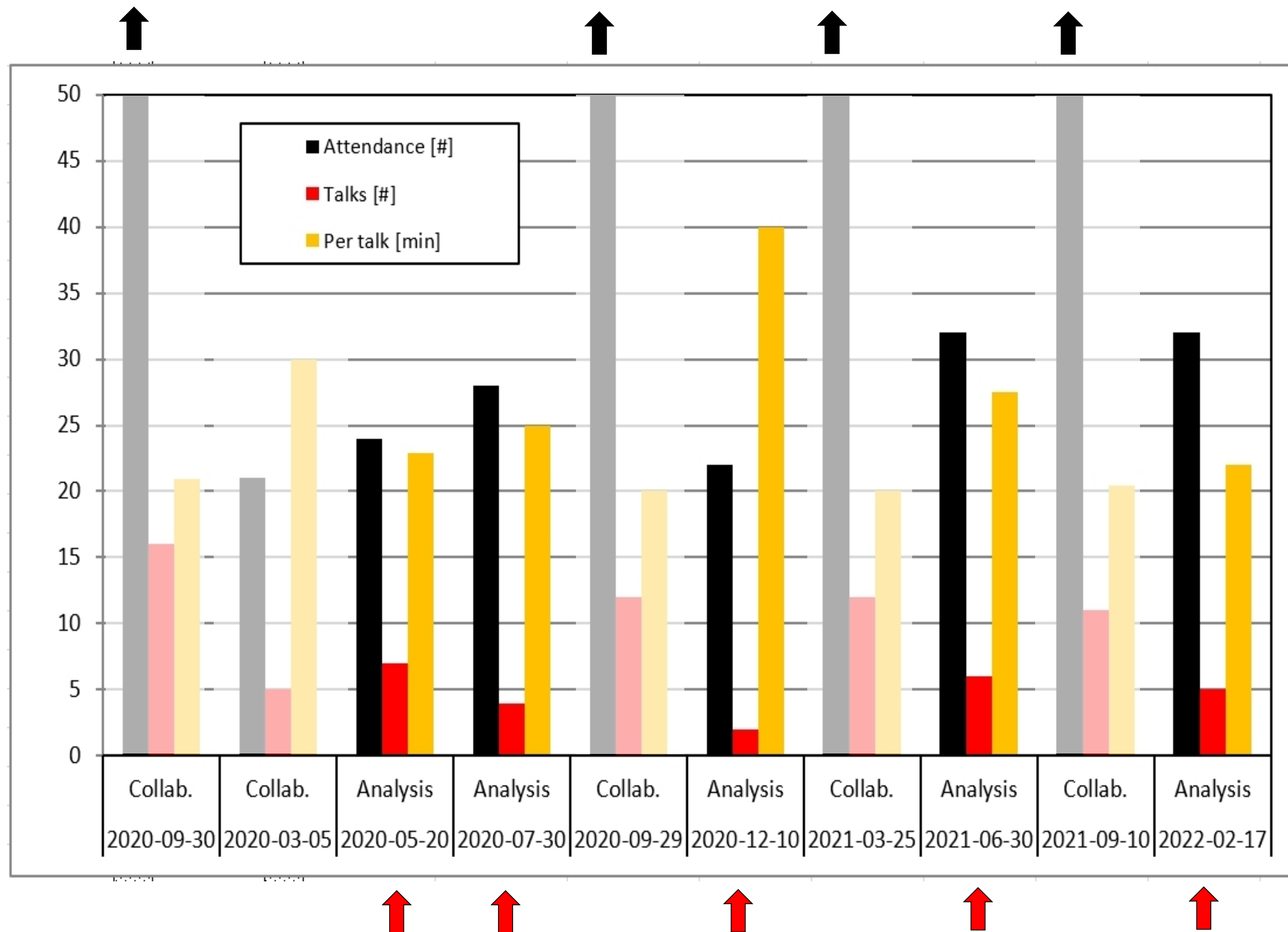
# CALOR 2022

## CALOR 2020 – 19th International Conference on Calorimetry in Particle Physics University of Sussex, UK, 16-20 May, 2022



Abstract	Title	Author(s)
28	Status of Timing-SDHCAL Development	Weihaio Wu
116	A novel approach to understanding hadronic showers using machine learning technique	Marina Chadeeva
128	Energy reconstruction with the Semi-Digital HCAL	G.Grenier, I.Laktineh, M.Fouz Iglesias
138	Commissioning of the CALICE SiW ECAL prototype	Roman Poeschl
141	Design and Power management issues in the CALICE SiW ECAL base elements	Roman Poeschl
148	Digital Hadron Calorimetry	Burak Bilki
150	Development of Novel Designs of Resistive Plate Chambers	Burak Bilki
203	Roman Poeschl	Roman Poeschl
204	Performance at test beam and simulation of the CALICE SiW ECAL prototype	
234	Roman Poeschl	Roman Poeschl

# Analysis Meetings



Analysis meetings between collaboration meetings are back on since 2020:

~4-6 presentations each time, with attendance of ~30 participants.

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

Next analysis meeting in June/July 2022.



# Analysis Meetings

Analysis Meeting

Wednesday May 20, 2020, 2:00 PM → 4:40 PM

Europe/Zurich

Francois Corriveau (McGill University, (CA))

Analysis Meeting

Thursday Jul 30, 2020, 2:00 PM → 4:40 PM

Europe/Zurich

Francois Corriveau (McGill University, (CA))

Analysis Meeting

Thursday 10 Dec 2020, 14:00 → 16:40

Europe/Zurich

Francois Corriveau (McGill University, (CA))

2:00 PM → 2:05 PM

2:05 PM → 2:30 PM

2:30 PM → 2:55 PM

2:55 PM → 3:15 PM

3:15 PM → 3:35 PM

3:35 PM → 3:55 PM

3:55 PM → 4:15 PM

4:15 PM → 4:35 PM

2:00 PM → 2:05 PM

2:05 PM → 2:25 PM

2:25 PM → 3:05 PM

3:05 PM → 3:25 PM

3:25 PM → 3:35 PM

14:00 → 14:05

14:05 → 14:30

14:30 → 14:50

16:00 → 16:05

Introduction

Speaker: Francois Corriveau (McGill University, (CA))

20201210\_calice\_a...

PandoraPFA Studies on AHCAL 2018 Data

Speakers: Daniel Heuchel (Max-Planck-Institut für Physik) , Daniel Heuchel (DESY) , Daniel Heuchel (CERN)

DH\_pandora\_calice\_...

CALICE and GEANT4

Speaker: Roman Poeschl (Université Paris-Saclay (FR))

talk101220.pdf

Meeting notes

Speaker: Francois Corriveau

20201210\_analysis...

minutes/comments added

CALICE Analysis Meeting

Wednesday Jun 30, 2021, 2:00 PM → 5:00 PM

Europe/Zurich

Francois Corriveau (McGill University, (CA))

CALICE Analysis Meeting

Thursday Feb 17, 2022, 2:00 PM → 5:00 PM

Europe/Zurich

Francois Corriveau (McGill University, (CA))

2:00 PM → 2:05 PM

2:05 PM → 2:30 PM

2:30 PM → 3:00 PM

3:00 PM → 3:20 PM

3:20 PM → 3:40 PM

3:40 PM → 4:10 PM

4:10 PM → 4:30 PM

4:30 PM → 4:55 PM

2:00 PM → 2:05 PM

2:05 PM → 2:25 PM

2:25 PM → 2:45 PM

2:45 PM → 3:05 PM

3:05 PM → 3:25 PM

3:25 PM → 3:40 PM

3:45 PM → 3:50 PM

Introduction

Speaker: Francois Corriveau (McGill University, (CA))

20220217\_calice\_a...

Computer Vision Algorithms applied on AHCAL Data

Speaker: Julian Utehs

ComputerVisionAlg...

Study of LGAD with high timing resolution

Speaker: Mami Kuhara

220217calice\_04.pdf

Performance evaluation of Sc-ECAL prototype

Speaker: Naoki Tsuji (The University of Tokyo)

CALICE\_analysis\_N...

Data quality checks for November beam test

Speakers: Adrian Irlas (IFIC (CSIC/UVeG) Valencia), Adrian Irlas

20220217\_CALICE-...

LCIO Event building

Speakers: Hector Garcia, Hector Garcia Cabrera (Centro de Investigaciones Energéticas Medioambientales y Teo. (ES))

LCIOEB-17-02-2022...

Meeting notes

Notes will appear here after the meeting

Speaker: Francois Corriveau

20220217\_calice\_a...

minutes/comments added



# Summary

Collaborative R&D is the core of CALICE.  
Diffusion of results are its expression to the community.

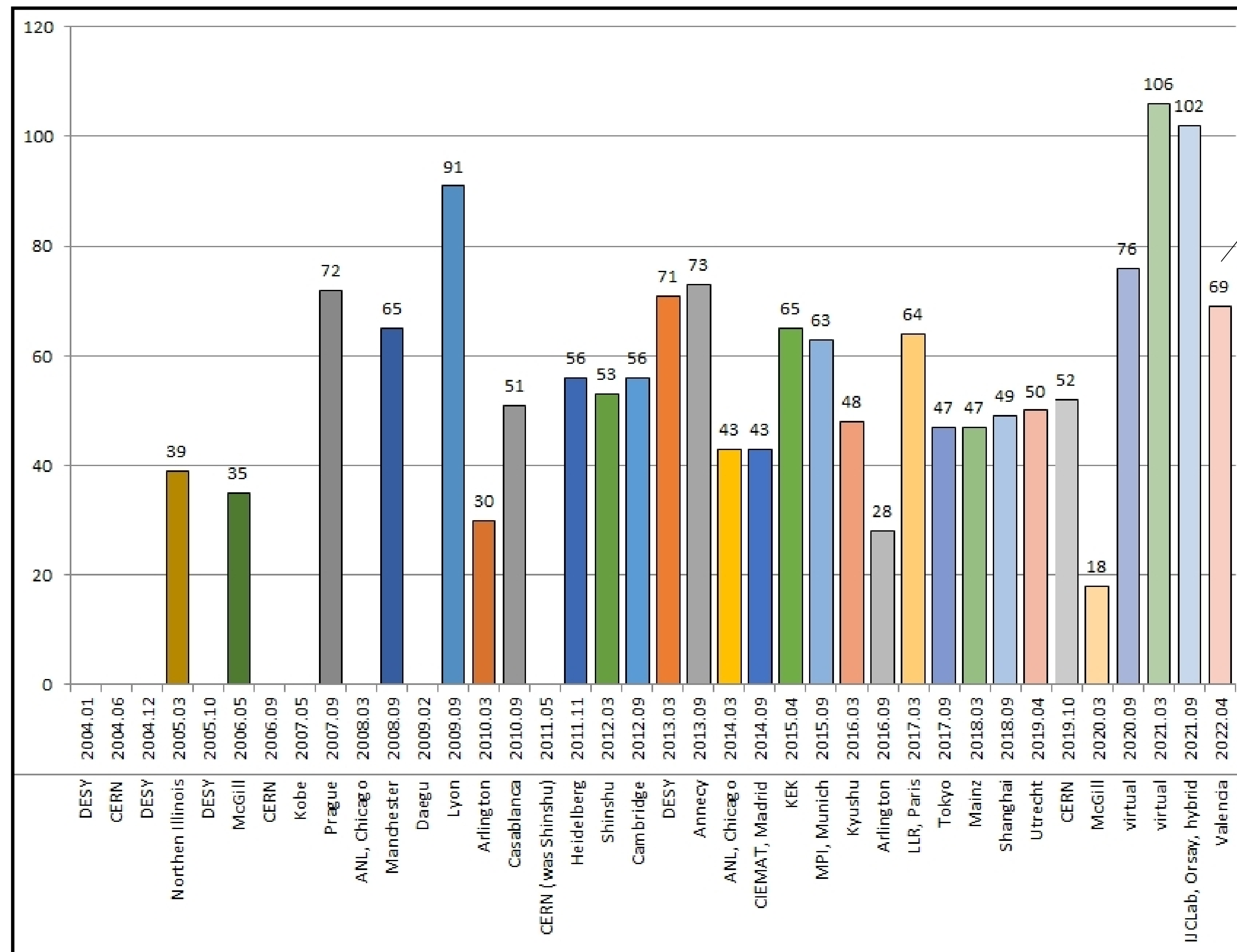
There are many ways for members to contribute to the reach of CALICE:

take part in technical/analysis meetings,  
participate to workshops and conferences  
present/discuss methods and results,  
write down technical/analysis works  
in the form of theses, notes and publications.

The role of the CALICE Speaker's Bureau is to facilitate.  
We welcome inquiries and suggestions for improvements.

# Extras

# CALICE Collaboration Meetings



as of 2022.04.12