



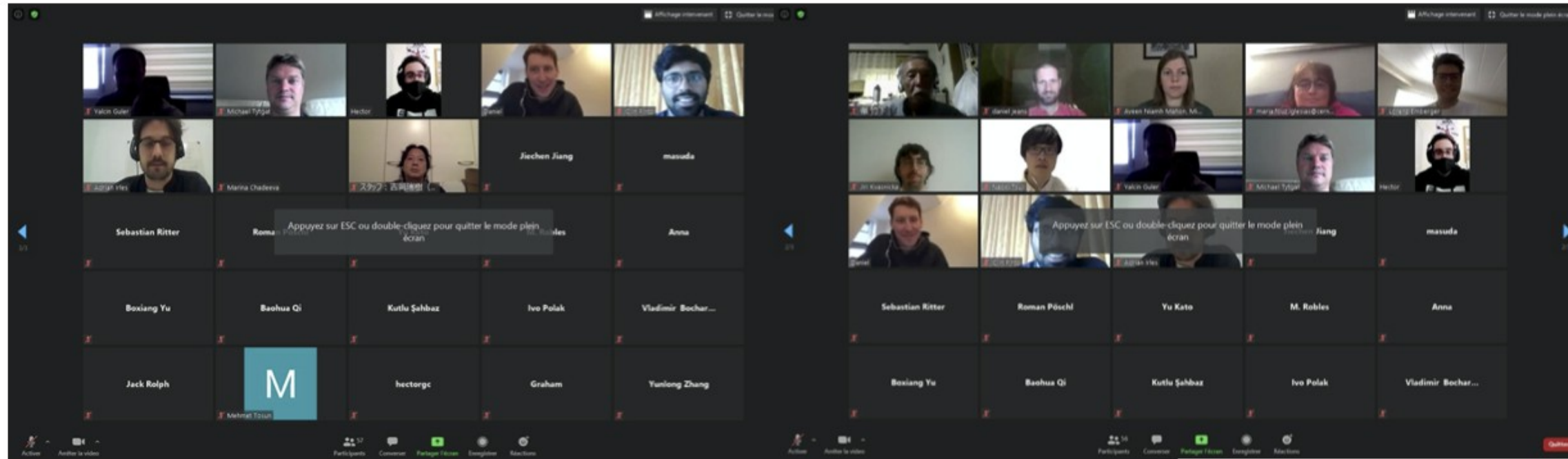
@ Everywhere

Spokespersons' Farewell

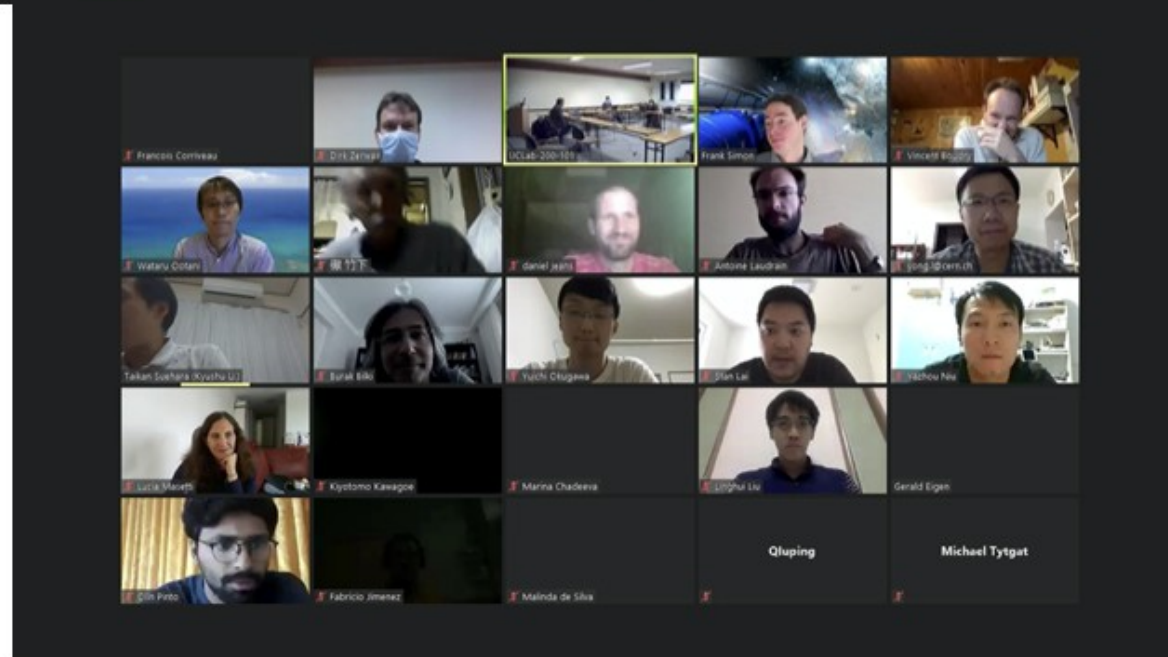
Roman Pöschl



Virtual CALICE Collaboration Meeting – September 2020



- Thanks a lot for the active participation
- An impressive proof that CALICE is alive and kicking!!!



- 60 people on group picture
- 63 was peak participation of yesterday

As “promised” on Monday: Lot's of progress despite difficult and strange situation

- **Ecals are waiting eagerly for their beam tests**
 - Two large scale prototypes SiW ECAL and ScECAL in starting blocks
 - Crystal calorimetry introduced in CALICE
- **Hcals are not “sleeping”**
 - HGICAL: First construction of highly granular calorimeters
 - Beam tests with AHCAL including megatiles
 - New analogue Hcal prototype at the horizon
- **The topic Timing starts to grow in CALICE**
 - SDHCAL approaches the 100ps realm
 - Advanced timing analysis for AHCAL
 - Tests with LGADs
- **It's impressive to see what in particular young colleagues squeeze out of the data**
 - Analysis meeting have resumed and that's excellent news!
 - Make sure that your beautiful results get published: CAN and Papers!

- **Recognition of individuals big collaborations**
 - Starting to address this topic by turning to early career researchers in CALICE
 - Important feedback already now, will be followed up
 - Main Message for me:
 - **Combined beam tests should become (again) the backbone of the collaboration**
 - This is a charge from the “juniors” to the “seniors” to realise this
- **Diversity charter**
 - CALICE got invited to sign the diversity charter
 - Spokesperson charged to clarify open issues
 - Further discussion of topic will be organised

- The talks by Hitoshi and Phil are just behind us
- Let me thank both once more for their important contributions to our meeting
- CALICE is ready to play its part from continuous R&D to providing guidance for the construction of granular calorimeters
 - As the agenda proofs

- I am looking forward to following up activities/results over autumn/winter
- There will be a Spring Meeting
 - When, where, how is unfortunately unclear at the moment
- I wish you all a good continuation and maximal success but above all

Stay Healthy

- Announced at CERN Council Session 19/6/20
 - See <https://indico.cern.ch/event/924500/> for all strategy statements
- Priority on Higgs Factory
 - See slide
- Emphasis of importance of collaborative Detector R&D
 - See slide
- Establishment of a Detector R&D Roadmap
 - ECFA Panel chaired by Phil Allport, see his talk on Wednesday
- (From my point of view) Important statement
 - *“The implementation of the Strategy should proceed in strong collaboration with global Partners and neighbouring fields”*



2020 Strategy Statements

3. High-priority future initiatives

It is essential for particle physics in Europe and for CERN to be able to propose a new facility after the LHC

- There are two clear ways to address the remaining mysteries: Higgs factory and exploration of the energy frontier
- Europe is in the privileged position to be able to propose both: CLIC or FCCee as Higgs factory, CLIC (3 TeV) or FCChh (100 TeV) for the energy frontier
- The dramatic increase in energy possible with FCChh leads to this technology being considered as the most promising for a future facility at the energy frontier.
- It is important therefore to launch a feasibility study for such a collider to be completed in time for the next Strategy update, so that a decision as to whether this project can be implemented can be taken on that timescale.

a) An electron-positron Higgs factory is the highest-priority next collider. For the longer term, the European particle physics community has the ambition to operate a proton-proton collider at the highest achievable energy. Accomplishing these compelling goals will require innovation and cutting-edge technology:

- *the particle physics community should ramp up its R&D effort focused on advanced accelerator technologies, in particular that for high-field superconducting magnets, including high-temperature superconductors;*
- *Europe, together with its international partners, should investigate the technical and financial feasibility of a future hadron collider at CERN with a centre-of-mass energy of at least 100 TeV and with an electron-positron Higgs and electroweak factory as a possible first stage. Such a feasibility study of the colliders and related infrastructure should be established as a global endeavour and be completed on the timescale of the next Strategy update.*

The timely realisation of the electron-positron International Linear Collider (ILC) in Japan would be compatible with this strategy and, in that case, the European particle physics community would wish to collaborate.

19/06/2020

CERN Council Open Session

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H. Abramowicz, Strategy Secretary



2020 Strategy Statements

4. Other essential scientific activities for particle physics

Instrumentation R&D critical for present and future endeavours

- Delivering the near and long-term future research programme requires advances in instrumentation through focused and transformational R&D
- There is a clear need to strengthen existing R&D collaborative structures and to create new ones, and to foster an environment that stimulates innovation and collaboration with industry
- The National Laboratories and research institutes in Europe play a central role by providing access to dedicated infrastructures and test facilities, specialised expertise and user support
- A roadmap should be developed by the community (ECFA's role) taking into account progress with emerging technologies in adjacent fields

c) The success of particle physics experiments relies on innovative instrumentation and state-of-the-art infrastructures. To prepare and realise future experimental research programmes, the community must maintain a strong focus on instrumentation. *Detector R&D programmes and associated infrastructures should be supported at CERN, national institutes, laboratories and universities. Synergies between the needs of different scientific fields and industry should be identified and exploited to boost efficiency in the development process and increase opportunities for more technology transfer benefiting society at large. Collaborative platforms and consortia must be adequately supported to provide coherence in these R&D activities. The community should define a global detector R&D roadmap that should be used to support proposals at the European and national levels.*

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CERN Council Open Session

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H. Abramowicz, Strategy Secretary

- [AWLC 2020 virtual meeting, https://conf.slac.stanford.edu/awlc2020/](https://conf.slac.stanford.edu/awlc2020/)
 - R.P. Member of programme committee
 - Francois Corriveau plenary speaker on PFA Calorimeters
- [CEPC Week, virtual and face-to-face, 26/10/20 – 28/10/20 https://indico.ihep.ac.cn/event/11444/](https://indico.ihep.ac.cn/event/11444/)
 - R.P. Member of programme committee
 - 1 hour “CALICE Session” at meeting
- [FCC Week, by default virtual, 10/11/20 – 13/11/20, https://indico.cern.ch/event/932973/](https://indico.cern.ch/event/932973/)
 - Frank Simon member of programme committee
 - 1 hour “CALICE Session” at meeting



Three working groups

WG1: Prelab setup
 Chaired by T. Nakada

WG2: Accelerator
 Chaired by S. Michizono

WG 3: Physics and Detector
 Chaired by Hitoshi Murayama
-> Talk on Wednesday











- On Aug 2nd ICFA announces new phase towards Preparation of ILC
- Aug. 20th Formation of International Development Team
 - Under supervision of ICFA
- Charge is to prepare the ILC Pre-lab

- Community study to prepare update of US Strategy on Particle Physics “P5 Process”
 - <https://snowmass21.org/start>
- (For us most relevant)
- Instrumentation Frontier Working Group 6 – Calorimetry
 - Co-chaired by Andy White
- Call for Letters of Interest until 31st of August
 - Letters submitted by CALICE
 - Organised through Technical Board
- CALICE got invited for an overview talk on 14th of August, talk given by Frank
- Don't miss the Community Event next week
 - ... and register for the working group IF6

CALICE Letters of Interest submitted to US Snowmass 2021 Community Study (August 31, 2020) · ILC Agenda (Indico) 25/09/2020 23:08

CALICE Letters of Interest submitted to US Snowmass 2021 Community Study

Monday Aug 31, 2020, 10:00 AM → 8:00 PM Europe/Zurich

10:00 AM → 10:10 AM	Physics potential and prototyping of technological solutions for timing layers in highly granular calorimeters	10m
	Let ID: SNOWMASS21-IF6_IF6_CALICE-038	
	 SNOWMASS21-IF6...	
10:10 AM → 10:20 AM	Development of Highly Granular Scintillator Strip Electromagnetic Calorimeter	10m
	Let ID: SNOWMASS21-IF6_IF6_CALICE-058	
	 SNOWMASS21-IF6...	
10:20 AM → 10:30 AM	CALICE R&D for a highly granular silicon tungsten electromagnetic calorimeter, SIW-ECAL	10m
	Let ID: SNOWMASS21-IF6_IF6_CALICE-077	
	 SNOWMASS21-IF6...	
10:30 AM → 10:40 AM	CALICE R&D for compact readout systems for highly granular calorimeters	10m
	SNOWMASS21-IF6_IF6_CALICE-082	
	 SNOWMASS21-IF6...	
10:40 AM → 10:50 AM	Developments Towards a SiPM-on-Tile Based Analogue Hadron Calorimeter (AHCAL)	10m
	Let ID: SNOWMASS21-IF6_IF6_CALICE-099	
	 SNOWMASS21-IF6...	
10:50 AM → 11:00 AM	Timing Semi-Digital Hadronic Calorimeter (T-SDHCAL)	10m
	Let ID: SNOWMASS21-IF6_IF6_CALICE-050	
	 SNOWMASS21-IF6...	
11:00 AM → 11:10 AM	High-Granularity Crystal Calorimetry Letter of Intent	10m
	Let ID: SNOWMASS21-IF6_IF6_Yeng_Lie-044	
	 SNOWMASS21-IF6...	
11:10 AM → 11:20 AM	Digital Hadron Calorimetry	10m
	Let ID: SNOWMASS21-IF6_IF6_Yasar_Gunel-048	
	 SNOWMASS21-IF6...	
11:20 AM → 11:30 AM	Towards ultra-high granularity calorimetry	10m
	Let ID: SNOWMASS21-IF6_IF6-067	
	 SNOWMASS21-IF6...	
11:30 AM → 11:40 AM	Novel silicon sensors for high-precision 5D calorimetry	10m
	Let ID: SNOWMASS21-IF6_IF6-078	
	 SNOWMASS21-IF6...	

<https://agenda.linearcollider.org/event/8647/>

<https://agenda.linearcollider.org/event/8647/?print=1>

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- CALICE got invited to join the European ECFA-APPEC-NUPECC effort on recognition of individuals in big collaborations
 - Djamel Boumeddine is member of this working group for ECFA
 - R.P. Participated in first meeting in July
- For further information see also
 - <https://www.nikhef.nl/~i93/JENAS/RecognitionJENAS.pdf>
- It's not exclusively about Early Career Researchers but we think that Early Career Researchers are most sensible to this topic
- Organisation of ...
 - ... ECR Meeting on 22/9/20
 - discussion session at this meeting (including a further introduction by Djamel)
 - Can yield into exchange on recognition of senior researchers as well
- Today and in the coming weeks debate on how to best follow up this topic
 - This is a bit new territory for me and maybe for all of us
- I will draft answers to a set of questions (see link) by ECFA-NUPECC-APPEC

- CALICE got invited to sign the Diversity Charter formulated by ECFA-NUPECC-APPEC
 - <http://nupecc.org/jenaa/?display=diversity>
 - Clear and strong statement against discrimination
 - Consider diversity as an asset for the success of a collaboration
- May entail to set up a (lightweight) monitoring mechanism
- Discussion at Institution Board
 - Report from IB tomorrow
- As for recognition we start out from a European effort
 - Have to link to similar efforts in other regions

Diversity Charter of APPEC, ECFA, NuPECC

May 15, 2019

1 Definition of Diversity

The joint Diversity Charter proposed by the consortia APPEC [1], ECFA [2] and NuPECC [3] has Diversity as its principle, understood as the **acknowledgement, respect and appreciation** of the reality that people differ in many ways, visible or invisible, mainly in **age, gender and sexual orientation, national and ethnic origin, civil status and familial situation, religious convictions, political and philosophical opinions, and physical ability**.

It is recognized that identifying, accepting and valuing diversity and capitalizing on it in Research Performing and Funding Organizations, Committees and Collaborations can:

- Create a work environment that accelerates productivity and innovation and promotes life-work balance;
- Have a positive impact in attracting, retaining, and promoting diverse sets of skills;
- Represent an added value by making them a mirror of the society in which they exist; this added value has been demonstrated in industry (e.g. see Ref. [4]) as well as in research, where mostly effects on gender and ethnic inclusions have been studied so far. For example, a correlation between an increased ethnic diversity and a stronger impact in international publications has been found [5], [6] and positive effects of gender, ethnic and ability inclusions in STEMM have been highlighted [7];
- Fight prejudice and discrimination, fostering a culture of inclusion based on respect for individual human beings. Valuing the characteristics, skills and talents of each person promotes equal treatment and opportunities;
- Contribute to personal and professional development, efficiency and competitiveness of an organization, as well as towards the improvement of social and economic standards.

- The CNRS/IN2P3 is about to create a common research laboratory with the German Helmholtz Association
- IRL = International Research Laboratory, regular lab outside of France, exist already elsewhere

White Paper

CNRS/IN2P3 and Helmholtz: The International Research Laboratory

Version 31 July 2020

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Editors: D. Zerwas and T. Schörner

- Particle Flow Calorimetry among scientific projects within this IRL
- CALICE Members are PI of scientific project

- 62 Registered participants
 - Agenda organised by IB-Chair, TB-Chair, SpB-Chair and Spokesperson
 - Will go back to classical organisation upon next Face-to-Face Meeting
- Two institutes have asked to join CALICE
 - See IB summary tomorrow
- 26 talks in Technical and Analysis Session by 26 different Speakers
 - This is a very good sign!!!
- No “Other Application” Session this time
- Session on Recognition
- Special session on CALICE and Strategies
 - Thanks to Phil and Hitoshi for agreeing to give talks

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I wish us all a great CALICE Meeting even if virtual

Backup