

# SDHCAL activities dashboard

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# Ongoing activities

## Test beam analysis

### all TB

- Uniformity (Bing+SJTU)
- Low Energy hadrons (Bing+SJTU)
- Uses of BDT (Bing+SJTU)

### 09/2018 only

- SiWECAL+SDHCAL (Hector+CIEMAT(+Antoine ?))
- Tricot electronics (GG, on hold)

### 2015 only

- Analysis with rotated device (on hold)

# Ongoing activities

## PFA

- ArborPFA → APRIL (Bo, → GG )
- Rand Index (GG)

## Digitisation

Incorporate GRPC response modeling to digitiser, (Clermont+Lyon).

## ILD/CEPC Analysis

- CIEMAT

## Hardware

- 2m<sup>2</sup> GRPC+HR3 ASU+ new DIF (Lyon+ CIEMAT ) **News at last CALICE meeting**
- Timing electronics (CMS muon)
- Cooling for CEPC (SJTU)
- SJTU lab (SJTU)

## AIDA 2020 Expression of Interest

3 EOIs : PFA (ARTIC : EOI #145), Digitizer (EOI # 135), Timing SDHCAL (EOI #58). News : **SDHCAL removed from high granularity calorimeter WP.**

AIDA++ 2<sup>nd</sup> Open meeting at CERN, 09/23,

<https://indico.cern.ch/event/838461/>

# Publications

## Papers, short term

- Transformation of BDT note CALICE-CAN-2019-001 <https://inspirehep.net/record/1718039> into a paper, Submitted to JINST?. An other paper from SJTU accepted by JINST.
- Current analysis of test beam data (GRPC uniformity, low energy hadrons, ...) ?

## Notes in preparation

- Bo : APRIL PFA.
- Bing : Low energy hadrons + uniformity studies (target=CHEF)

## Papers, medium term

- ECAL+HCAL analysis, to see with ECAL groups
- More on GRPC response modeling by Clermont ?

# Coming meetings

## talk/poster to provide

- LCWS2019, October 28 - November 1, Sendai,  
<https://agenda.linearcollider.org/event/8217/> : Bo's talk  
yesterday
- CHEF2019, November 25-29, Kyushu,  
<https://indico.cern.ch/event/818783/> 3 talks (Bing, GG, Djamel)
- RPC2020, February 10-14, Roma,  
<https://agenda.infn.it/event/19942/> (abstract before november 30)
- CALOR2020, May 18-22, Sussex, UK,  
<https://indico.cern.ch/event/847884/> (abstract 12/2/19 to  
03/27/20)

## Other meetings

- CEPC workshop, November 18-20, IHEP, Beijing,  
<https://indico.ihep.ac.cn/event/9960/>

# More on meetings

## News from CALICE Meeting

- Message from Roman. Clean/update the CALICE twiki page.  
<https://twiki.cern.ch/twiki/bin/view/CALICE/SdHCa1>

## LCWS 2019

- Registered : Bo : talk on APRIL.

## CHEF 2019

- Registered : Bing, Imad, GG, Djamel
- Talk on APRIL, Low energy and BDT, digitizer.

## CEPC workshop

- Maybe A SDHCAL-related talk.

# Outlook

Don't hesitate to add any important activity, paper, or conference, I may have miss.

## Next meetings

time : Europe 9-11 / China 15-17 / Korea 16-18

- Optional : October (Wed) 30th or (Thur) 31st (during LCWS)
- November 13th