

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, then GG)
- Rand Index (GG)

Digitisation

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

AIDA 2020 Expression of Interest

- IP2I+LLR on PFA
- IP2I+LPC on Digitizer
- IP2I+LPC+Gangneung-Wonju+OMEGA+SJTU+CIEMAT on timing MultiGapGRPC SDHCAL

AIDA++ Open meeting at CERN, 09/04, <https://indico.cern.ch/event/838460/>

Hardware

- 2m² GRPC+HR3 ASU+ new DIF (Lyon+ ?), on hold
- Timing electronics (CMS muon)
- SJTU lab (SJTU)

ILD/CEPC Analysis

- CIEMAT

Publications

Papers, short term

- Transformation of BDT note CALICE-CAN-2019-001 <https://inspirehep.net/record/1718039> into a paper, **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

- CALICE Meeting, september 30 - October 2, CERN,
<https://agenda.linearcollider.org/event/8213/>
- LCWS2019, October 28 - November 1, Sendai,
<https://agenda.linearcollider.org/event/8217/>
- CHEF2019, November 25-29, Kyushu,
<https://indico.cern.ch/event/818783/>

Other meetings

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

More on meetings

CALICE Meeting

- Mary Cruz and GG organising the SDHCAL session.
- Registered : Bo, GG, Imad, Camilo, Hector, Djamel, Do-Won Kim.
- Talks on APRIL and other stuff (???)

LCWS 2019

- Registered : Bo : talk on APRIL.

CHEF 2019

- Registered : Bing, Imad, (GG, Djamel to come)
- Abstract on APRIL, Low energy, BDT.

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 : **Thursday** October 17th
- Optional : October 30th (during LCWS)
- November 13th