SDHCAL activities dashboard

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IP2I (previously IPN) Lyon

November $14^{\rm th}$, 2019

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 \rightarrow APRIL (Bo, \rightarrow GG)
- Rand Index (GG)

Digitisation

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

ILD/CEPC Analysis

CIEMAT

Hardware

- 2m² GRPC+HR3 ASU+ new DIF (Lyon+ CIEMAT) News at last CALICE meeting
- Timing electronics (CMS muon)
- Cooling for CEPC (SJTU)
- SJTU lab (SJTU)

AIDA++ status

AIDA 2020 Expression of Interest

- EOI #145 PFA (ARTIC): Included in software WP (6 monthes financing), next meeting 11/22/2019.
- EOI # 135 Digitizer : dropped
- EOI #58 Timing SDHCAL and EOI #57 Tricot electronics: merged and included in WP gaseous detectors.

SDHCAL removed from high granularity calorimeter WP

AIDA++ 2nd 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, Submited to JINST?. An other paper from SJTU accepted by JINST.
- Current analysis of teat 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

- 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)
- 3rd CEPC Workshop EU Edition, May 4-6, Marseille

Other meetings

 CEPC workshop, November 18-20, IHEP, Beijing, https://indico.ihep.ac.cn/event/9960/, a SDHCAL talk on tuesday.

More on meetings

News from CALICE Meeting

 Message from Roman. Clean/update the CALICE twiki page. https://twiki.cern.ch/twiki/bin/view/CALICE/SdHCal

CHEF 2019

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

CEPC workshop

A SDHCAL-related talk scheduled on tuesday 19.

Past meetings

 LCWS2019, October 28 - November 1 2019, Sendai, https://agenda.linearcollider.org/event/8217/: one talk by Bo on APRIL PFA

Outlook

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

Next meetings

time: Europe (winter) 9-11 / China 16-18 / Korea 17-19

- In 2 weeks, CHEF2019
- Thursday december 5th
- Thursday december 19th
- End of year break, reconvene in January