

ATHENA PID weekly regular meeting

Report of Contributions

Contribution ID: 1

Type: **not specified**

DIRC

Monday, 21 March 2022 12:10 (3 minutes)

Advice on design, simulation, performance issues

Presenters: KALICY, Grzegorz (CUA); SCHWIENING, Joe (GSI)

Session Classification: Roundtable updates

Contribution ID: 2

Type: **not specified**

mRICH

Monday, 21 March 2022 12:13 (3 minutes)

Simulation & performance studies

Presenter: SARSOOR, Murad (Georgia State University)

Session Classification: Roundtable updates

Contribution ID: 3

Type: **not specified**

dRICH

Monday, 21 March 2022 12:16 (3 minutes)

Presenters: DILKS, Christopher (Duke University); CISBANI, Evaristo (Italian National Institute of Health and Italian Institute of Nuclear Physics)

Session Classification: Roundtable updates

Contribution ID: 7

Type: **not specified**

Weekly news

Monday, 21 March 2022 12:00 (5 minutes)

Conveners briefly update with news, comments and new directions from the Steering Committee (if any).

[DIS abstract]

not accepted for talk, accepted as poster.

Anyone going to DIS interested in presenting it?

[LAPPD workshop]

Informal LAPPD workshop on March 21st 2022.

[DPAP report]

Given the outcome of the report we may want to spend some time to discuss it among us. A few points for discussion below, please bring up yours

- Tom raised the issue regarding how much we worked in ATHENA to put the dRICH into a satisfactory location/layout, the 50 cm gain and the shift of the magnet.
- how satisfactory really is the dRICH layout of ECCE and whether ECCE costed the dRICH in a comprehensive way.
- the LGAD is another point of discussion, because we limited ourselves to the barrel leaving fwd/bwd to upgrades because of cost.
- moreover LGAD is seen as a risk because of ASIC, so is not the risk in ECCE bigger because they have more square metres of LGADs ?
- overall ECCE results in a cheaper detector despite 4pi LGAD coverage, which should make PID expensive. We might want to better compare with them the cost of the PID subsystem.
- mRICH will likely get back in place given that the ECCE setup might not have the space for proximity focusing.
- and then there is the question of what will we ATHENA PID will do. Most of the ATHENA PID people are also in ECCE. Do we expect that they will continue working on ECCE and there will be little left in the ATHENA PID?
If this is the case there is not much room for our ATHENA PID community to do something else (ie. 2nd detector) at this stage if we lose many actors.
- and what about the labs? BNL and JLAB staff will work on 1st detector, no help from them at this stage for the 2nd detector

Contribution ID: 8

Type: **not specified**

AoB

Monday, 21 March 2022 12:55 (5 minutes)

In case there is any other business to discuss, we can take it here. If discussion takes longer than 5 minutes, it means that it needs a proper space and will be point for next week.

Contribution ID: 9

Type: **not specified**

Low momentum PID with TOF

Monday, 21 March 2022 12:22 (3 minutes)

Presenters: LI, Wei (Rice University); Prof. YE, Zhenyu (University of Illinois at Chicago); XU, Zhangbu (BNL); FAN, Wenqing; GEURTS, Frank (Rice University)

Session Classification: Roundtable updates

Contribution ID: **10**

Type: **not specified**

Low momentum PID with GridPix

Monday, 21 March 2022 12:19 (3 minutes)

Presenter: GARG, Prakhar (Stony Brook University)

Session Classification: Roundtable updates

Contribution ID: 11

Type: **not specified**

B field impact on forward RICH

Monday, 21 March 2022 12:25 (3 minutes)

Presenters: CHATTERJEE, Chandradoy (INFN Trieste (IT)); PREGHENELLA, Roberto (INFN Bologna)

Session Classification: Roundtable updates

Contribution ID: 12

Type: **not specified**

DAQ

Monday, 21 March 2022 12:28 (3 minutes)

Gathering DAQ requirements from PID WG

Presenters: CAMSONNE, Alexandre (JLAB); LANDGRAF, Jeff (Brookhaven National Laboratory)

Session Classification: Roundtable updates

Contribution ID: 13

Type: **not specified**

LGADs for TOF-PID

Monday, 21 March 2022 12:31 (3 minutes)

simulation & performance studies, design, cost estimate etc.

Presenters: YANG, Shuai (Rice University); Prof. LI, Wei (Rice University)

Session Classification: Roundtable updates

Contribution ID: 14

Type: **not specified**

SiPM for RICH optical readout

Monday, 21 March 2022 12:34 (3 minutes)

R&D on SiPM as an option for the readout of the forward RICH

Presenter: PREGHENELLA, Roberto (INFN Bologna)

Session Classification: Roundtable updates

Contribution ID: 15

Type: **not specified**

Pressurised argon for the gaseous RICH

Monday, 21 March 2022 12:37 (3 minutes)

mechanical studies and simulations for a pressurised argon vessel for the forward gas RICH

Session Classification: Roundtable updates

Contribution ID: 16

Type: **not specified**

LAPPD option for photon readout

Monday, 21 March 2022 12:40 (3 minutes)

R&D on LAPPD detectors must not be forgotten

Presenter: DALLA TORRE, Silvia (INFN, Trieste)

Session Classification: Roundtable updates

Contribution ID: **18**

Type: **not specified**

Barrel eCal with tracking and timing capability

Monday, 21 March 2022 12:43 (3 minutes)

Presenters: ZUREK, Maria (Argonne National Laboratory); REIMER, Paul E (Argonne National Laboratory)

Session Classification: Roundtable updates