3^d Vertex2019 IAC+LOC meeting

June 12, 2019

1. Workshop format

2. Sessions and speakers

3. Session chairs

4. AOB: dates, sponsorship, poster

Workshop format

- All talks 25+5 mins
- Coffee breaks: 30mins
- Coffee break with poster session 1hour
- Morning session 9:00-12:30: 3+3 talks
- Afternoon session: 14-18:30: 4+4 talks
- ---> total 52 talks + summary
- **For the moment we have 43+4 unconfirmed + 5 empty slots**
- ~10 posters. **For the moment we have 0**
- Number of participant:
  - 50+10 = 60 with presentation
  - 5-6 from RBI
  - 10(?) from IAC

  Total: 60 + 15-20 without presentations + ?? accompanying persons

Workshop sessions, Mon-Tue

Oct 14, Monday

8:50-9:00 Welcome

Session LHC experiments 1

9:00-9:30 ATLAS tracker: operational Experience, Performance and lessons learned

9:30-10:00 CMS tracker: operational Experience, Performance and lessons learned

10:00-10:30 ALICE: ITS experience and lessons

10:30-11:00 coffee break

Session LHC experiments 2

11:00-11:30 LHCb: VELO&ST operation

11:30-12:00 ATLAS pixel: operational Experience, Performance and lessons learned

12:00-12:30 CMS pixel: operational Experience, Performance and lessons learned

12:30-14:00 lunch

Session LHC experiments upgrade 1

14:00-14:30 CMS Phase 1 Layer 1 issues and solutions

14:30-15:00 ALICE ITS upgrades

15:00-15:30 ATLAS upgrades: tracker detector

15:30-16:00 CMS upgrades: tracker detector

16:00-16:30 coffee break

Session LHC experiments upgrade 2

16:30-17:00 LHCb VeLO&ST upgrades

17:00-17:30 ATLAS upgrades: vertex detector

17:30-18:00 CMS upgrades: vertex detector

18:00-18:30 Empty slot

19:15-21:15 dinner

Oct 15, Tuesday

Session non-LHC experiments 1

9:00-9:30 Belle-2: experience with SVD

9:30-10:00 Belle-2: experience with PXD

10:00-10:30 Belle-2: Silicon detector upgrades

10:30-11:00 coffee break

Session non-LHC experiments 2

11:00-11:30 FCC-ee

11:30-12:00 CLIC

12:00-12:30 CEP China

12:30-14:00 lunch

Session Vertex detector system aspects 1

14:00-14:30 Ultra light helium cooled Mu3e vertex detector / **Frank Meier**

14:30-15:00 Alice talk

15:00-15:30 Atlas talk

15:30-16:00 Serial Powering for the CMS Phase-2 Upgrade

16:00-17:00 coffee break + poster session

Session Vertex detector subsystem 2

17:00-17:30 LHCb talk

17:30-18:00 Empty slot

18:00-18:30 Empty slot

19:15-21:15 dinner

Workshop sessions, Wed-Thu

Oct 16, Wednesday

Session Timing detectors / technologies
8:45-9:15 ATLAS timing detector
9:15-9:45 CMS talk 1
9:45-10:15 CMS talk 2
10:15-10:30 coffee break
Session Radiation effects
10:30-11:00 LGAD and 3D as timing detectors (RD50)
11:00-11:30 General RD50 overview talk
11:30-12:00 FEAST chip Faccio???

12:30 departure to Dubrovnik with lunch on board
14:30-16:30 free time (museums and city wall visit)
16:30-18:00 guided tours
18:00-20:00 free time (dinner in local restaurants)
20:30 departure to Lopud, arrival at 21:30

Oct 17, Thursday

Session Sensor/ASICs Technology 1
9:00-9:30 3D stacking (SOI): Toru Tsuboyama
9:30-10:00 DMAPS developments in LFoundry 150nm and TowerJazz 180 nm
10:00-10:30 Foundry service from CERN
10:30-11:00 coffee break
Session Sensor/ASICs Technology 2
11:00-11:30 Recent HVCMOS developments in RD50 framework
11:30-12:00 RD53 talk1
12:00-12:30 RD53 talk2
12:30-13:00 Planar: ATLAS/HPK

13:00-14:00 lunch
Session Sensor/ASICs Technology 3
14:00-14:30 Mu3e chip
14:30-15:00 Timepix4
Session: Simulations
15:00-15:30 TCAD advanced radiation damage modelling in silicon detectors
15:30-16:00 coffee break
16:00-16:30 Acceptor removal – CMOS/LGAD – Modelling and recent findings (RD50)
16:30-17:00 TCAD and recent defect studies (RD50)
Session: Tracking and vertexing on trigger level
17:00-17:30 ATLAS: Tracking at trigger level
17:30-18:00 DAQ and Level-1 Track Finding for the CMS HL-LHC Upgrade
18:00-18:30 Empty slot

19:00-22:00 conference dinner

Workshop sessions, Friday

Oct 18, Friday
Session reco algorithms and physics
8:30-9:00 Vertexing in high pileup with time information (TBC)
9:00-9:30 Tracking algorithms in multiple scattering dominated
regimes / **André Schöning**
Session non-HEP applications
9:30-10:00 Silicon Trackers in space
10:00-10:30 Empty slot
10:30-11:00 coffee break
11:00-11:40 **Summary talk**
11:40-11:50 **Concluding remarks**

12:15 boat to Dubrovnik or
 (self organized?) lunch in the hotel

Need session chairs

Session chair:
- take care about session presentations and abstracts, speakers
- organize a review process for the proceedings

Important dates

- June – July
  - finalize scientific program and complete invitation process
  - print workshop poster and distribute it
  - send invitations with Bulletin 1
  - registration: June 1-July 15 (end of early registration)
- July
  - July 15 notification of poster acceptance and abstracts deadline
  - July 31 end of early registration
- August 15 end of guaranteed hotel reservation
- September 15 end of registration

Sponsors

- Need to sponsor 5-6 young researcher participation with poster or oral presentation

- List of potential sponsors
    1. Finland (Jaakko)
    2. CiS (AS, contact from Tilman)
    3. HPK (AS, contact form Marko, Swiss representatives)
    4. Dectris (AS)
    5. IZM (?)

- Local sources
    1. Vuko: ministry of science: EUR 3-4k (request to be submitted)
    2. Neven: Horizon 2020 Era Chair project (PaRaDeSEC): emergency help