

Analysis priorities

- Manpower issue....
- 1) New analysis libraries/tools, calibrations standard, unfolding, etc. (next few months, End of January) → **Menjo/Alessio**
- 2) Neutral pions → Menjo/Alessio, spring
- 2) Extension of rapidity region for photons and neutrons
 - Few months (End of February) work on Arm1 calibration and later check if it is reasonable
 - Arm2 in different positions to extend eta coverage?
 - Arm1 neutrons (low priority)?
- 2) Atlas/LHCf combined analysis
 - Photons → Menjo/Ohashi/Eugenio (discussions)
 - Neutrons → ~April 2019, Ohashi, Eugenio
 - Do we mind some changes (inclusive photon → single photon, for example) from LHCf stand alone paper? No strong opposition.
- 3) p-Pb standalone
 - Neutrons

Arm2 upgrade for “close future” runs

- Check of fibers/New Installation (discussion asap)
- Repair of PreAmplifier box (Menjo will check this week)
- Maximize the DAQ speed (Sergio)
 - Design of DAQ and backend boards (mid 2019)
 - Prototype production + design of clock board (end of 2019)
 - Production (2020)
- Upgrade of the GSO layers readout for Arm2? (ATLAS boards? STAR boards?)
 - R&D (2019)
 - Decision of new or old system, and integration with Silicon DAQ (2020)
- Eliminate VME completely? Minimize efforts...
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p-O and p-p 14 TeV

- Physics motivations (Menjo)
 - High statistics at 14 TeV
 - Check of scaling with A in p-O
 - Acceptance with Roman Pots, optics etc. (ATLAS joint ‘data taking’)
- Political motivations (Italy/Japan)
 - No budget for now for future operations
 - Proposal just submitted for p-O
- Arm1 at LHC or not?
 - Upgrade of the GSO bar readout? (only for future)
 - Keep the existing system as it is now (yes)
 - DAQ system recovery
 - Detector recovery
- Contact with Cern/LHC/LPC/MLM etc. (Lorenzo and Menjo, asap)
 - Proposal to LHCC for p-p and p-O (dedicated new students)
 - Direction of crossing angle, be careful... (down going is ok)

- Number of bunches to minimize pile-up (Menjo, Lorenzo)
- SPS beam tests in 2021
 - Test in FNAL/Desy etc. mainly for DAQ tests?
 - Calorimeter calibration (even after LHC operation)
- Installation strategy (Activation of the zone)
 - Beginning or end of 2021?

RHICf

- Manpower for analysis of existing data
 - Investigate Korean manpower
 - RIKEN group in transition phase
 - Be in touch with STAR people for common analysis
 - Help from Eugenio for calibration work
 - Minho → Photon Asymmetry
 - Ueno → neutron cross section
 - Sato → Photon cross section
 - Junsang → Neutron asymmetry
- Joint paper on π^0 LHCf/RHICf?
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Far future? New detector? PHENIX?

New detector for general future? Not for RUN3

- Silicon pixel (LHC RUN4, EIC, sPHENIX...)
 - LEL
 - Japanese workshop ... new collaboration

Next meeting?

- Japan