Possible Projects under Discussion (I)

- DAQ/RO Electronics
  - ▸ Pro: STAR & (s)PHENIX have plenty of experience and expertise
    - ◉ overall AI/ML efforts at BNL need development
    - ◉ good visibility and relevance
- Hadron Polarimetry
  - ▸ Pro: BNL world-expert, almost a must do
- Luminosity Monitor, OMD
  - ▸ BNL played leading role so far in overall design and DWGs.
  - ▸ Polish groups are committed.
- Far-Forward
  - ▸ Many components. BNL played leading role so far in overall design and DWGs.
  - ▸ Vicinity to IR and machine people helps in the integration
- Roman Pots
  - ▸ Pro: STAR has experience in RP
    - ◉ matches with overall AC-LGAD interests

Possible Projects under Discussion (II)

- ToF
  - ▶ Pro: STAR has some expertise in ToF (gaseous)
  - ▶ Little expertise in PO/NP in Silicon Sensor Technology
  - ▶ AC-LGAD: interest in HEP
  - ▶ Main player at BNL is Instrumentation not PO
  - ▶ Already strong groups involved Rice, UIC, UCSC, … (relation to CMS/MTD)
  - ▶ Physics case?
- pfRICH
  - ▶ Designed at BNL (AK)
  - ▶ Moderate experience with RICH detectors
  - ▶ Possible tight connection wit LAPPDs
  - ▶ Reasonable physics impact
  - ▶ Det-1 has current mRICH but unlikely to stay (wait for PID group)
- Other PID
  - ▶ DIRC (GSI, CUA, JLab, SBU, …) and dRICH (INFN, Duke) already in good hands

Possible Projects under Discussion (III)

- Tracking
  - Moderate experience on MPGDs
  - No experience in MAPS
  - Many groups already on board
- Calorimetry
  - Fwd - already many groups actively involved
    - sPHENIX/STAR has interest in EM participation
  - Barrel - ditto (HCAL <-> sPHENIX of course)
  - Backwards
    - EEEMCAL consortium quite strong
    - HCAL - not in design but could push and take over
      - Physics case?
- Other …

IMHO: PO/NP strong enough to take on several projects. Right now various subsystems not finalized (not on CD-2 level) so technologies might shift.